Volume 7

Draft Supplemental Recirculated Environmental Impact Report REVISIONS to Title 19-KERN COUNTY ZONING ORDINANCE – (2020 A), Focused on Oil and Gas Local Permitting

SCH# 2013081079

Draft Environmental Impact Report
REVISIONS to Title 19-KERN COUNTY ZONING ORDINANCE – (2015 C)
Focused on Oil and Gas Local Permitting
Chapter 12 Consolidated FEIR

Kern County Planning and Natural Resource Department
2700 M Street, Suite 100
Bakersfield, CA 93301-2370
(661) 862-8600

August 2020

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August 2020

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Chapter 12
Final Environmental Impact Report Consolidation

SCH# *2013081079*

Volume 5

REVISIONS to the KERN COUNTY ZONING ORDINANCE – 2015 (C)
Focused on Oil and Gas Local Permitting

Kern County
Planning and Community Development Department
Bakersfield, California

November 2015

Resolutions

BEFORE THE BOARD OF SUPERVISORS
COUNTY OF KERN, STATE OF CALIFORNIA

In the matter of:

Resolution No. 2015-298

APPROVING AMENDMENTS TO TITLE 19 OF THE KERN COUNTY ORDINANCE CODE CONCERNING OIL AND GAS LOCAL PERMITTING AND ADOPTING RELATED FINDINGS AND MAKING RELATED DETERMINATIONS (KERN COUNTY PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT)

I, KATHLEEN KRAUSE, Clerk of the Board of Supervisors of the County of Kern, do certify that the following resolution, on motion of Supervisor Maggard, seconded by Supervisor Scrivner, was duly passed and adopted by the Board of Supervisors at an official meeting this 9th day of November, 2015, by the following vote:

AYES: **Gleason, Scrivner, Maggard, Couch, Perez**

NOES: **None**

ABSENT: **None**

BOARD OF SUPERVISORS KERN COUNTY, CA

KATHLEEN KRAUSE
Clerk of the Board of Supervisors
County of Kern, State of California

Karen L Winn
Deputy Clerk

RESOLUTION

Section 1. WHEREAS:

(a) Pursuant to California Government Code sections 65000 *et seq*, this Board has adopted the Official Land Use and Zoning Ordinance for the County of Kern which is located in Title 19 of the Kern County Ordinance Code (Zoning Ordinance); and

(b) In response to a referral from the Board of Supervisors on January 22, 2013, The Planning and Community Development Department, with technical assistance from Western State Petroleum Association, California Independent Petroleum Association, and Independent Oil Producers Agency have requested revisions be made to the Zoning Ordinance concerning oil and gas local permitting which would apply Countywide; and

(c) The Planning and Community Development Department has prepared and considered a Final Environmental Impact Report (SCH# 2013081079) (FEIR) with all notices and scoping in compliance with the California Environmental Quality Act (CEQA) Statues and Guidelines, relating to the requested revisions and has the found FEIR to be complete and adequate in scope for the consideration of the requested revisions to be made to the Zoning Ordinance; and

(d) The Planning and Community Development Department has ensured that proper notice has been given of this public hearing; and

(e) A copy of the FEIR and the recommendations of the Planning and Community Development Department have been on file and available for examination as required by law; and

(f) This request was considered by the Kern County Planning Commission on October 5, 2015 and, with the exception of Commissioner Poole who recused herself, the Commission unanimously recommended that this Board approve the requested revisions to the Kern County Zoning Ordinance and the proposed CEQA actions, which include certifying the FEIR and adopting the proposed Findings of Fact pursuant to CEQA Guidelines Section 15091, the proposed Statements of Overriding Considerations pursuant to CEQA Guidelines Section 15093 and, the proposed Mitigation Monitoring and Reporting Program; and

(g) The Director of the Planning and Community Development Department furnished to this Board, and this Board has incorporated in the record of this matter, a document setting forth the significant environmental effects identified in the FEIR, with proposed findings, and evidence supporting the proposed findings, for consideration by this Board in relation to the significant effects for the purpose of Public Resources Code section 21081 and State CEQA Guidelines sections 15091 and 15093. A member of the Planning and Community Development Department also appeared before this Board and gave additional testimony in support of the proposed findings; and

(h) During the hearing, this Board reviewed and considered the information contained and provided by the Planning and Community Development Department, along with public comments and the whole of the record, with respect to the merits of the matters under consideration including: the adequacy and scope of the FEIR, the proposed Findings of Fact pursuant to CEQA Guidelines section 15091, proposed Statements of Overriding Considerations pursuant to CEQA Guidelines section 15093, and proposed Mitigation Monitoring and Reporting Program; and

(i) The public hearing was timely conducted on this matter and all persons desiring to comment were given the opportunity to do so before this Board closed the public hearing and considered the matter.

Section 2. IT IS RESOLVED by the Board of Supervisors of the County of Kern, State of California, as follows:

1. This Board finds that the recited facts are true and that it has the jurisdiction to consider, approve, and adopt this Resolution.

2. This Board incorporates and makes all the findings recommended by staff, whether verbally or in their written reports.

3. This Board finds and determines that the applicable provisions of the California Environmental Quality Act of 1970 ("CEQA"), the State CEQA Guidelines, and the Kern County Guidelines for implementation thereof were duly observed in conjunction with the hearing and the consideration of the requested revisions to the Zoning Ordinance concerning oil and gas local permitting.

4. The requested revisions to the Zoning Ordinance concerning oil and gas local permitting, which are specifically set forth in Ordinance G-8605, are hereby approved despite the existence of certain significant environmental effects identified in the FEIR.

5. This Board makes and adopts the findings with respect to each significant environmental effect set forth in the Findings of Fact (Exhibit "A"), pursuant to Public Resources Code section 21081 and CEQA Guidelines section 15091, as recommended by the Planning and Community Development Department, and declares that it considered the evidence described in connection with each finding and that the evidence is substantial and supports each finding.

6. This Board approves and adopts a "Statement of Overriding Considerations" (Exhibit "B"), pursuant to Public Resources Code section 21081(b) and CEQA Guidelines section 15093, as recommended by the Planning and Community Development Department, and finds that the impacts of the project which remain significant and unavoidable are outweighed by the project's overriding benefits.

7. This Board finds, determines and certifies that the FEIR is complete and adequate in scope and was completed in compliance with CEQA, the State CEQA Guidelines, and the Kern County Guidelines for implementation thereof; and that this Board has fully reviewed and considered the information in the each with respect to the project described, and the related proposed Mitigation Measure Monitoring Program is hereby adopted (Exhibit "C")

8. This Board finds and determines adoption of the Zoning Ordinance text changes (Exhibit" D") and recommended changes to Section 19.98.145 is necessary to promote the public health, safety and welfare of Kern County's residents and communities while providing permit streamlining for oil and gas activities in the County.

9. This Board finds and determines adoption of the Zoning Ordinance text changes include additional procedures and compliance standards that address changes in laws and regulations by other agencies, and technological advancements within the oil and gas industry, for the purpose of reducing or eliminating potential significant adverse environmental impacts, to the extent feasible, of future oil and gas activities, and thereby promote current County ordinances reflecting the County's interest in protecting the health, safety, and general welfare of residents and visitors.

10. This Board finds and determines that the changes implement this Board's policy direction to encourage ongoing economic development by the oil and gas industry that creates quality, high paying jobs and the promotion of capital investment in Kern County, which enables the County to invest in capital improvement projects and social programs, which benefit County residents, retail businesses, and capital industries which ensures the County's fiscal stability.

11. This Board finds and determines the adoption of the Zoning Ordinance text changes continue Kern County's ongoing commitment to consult and cooperate with Federal, State, Regional, and local agencies by periodically reviewing adopted regulations to ensure the long-term viability of Kern County's resources.

12. This Board finds and determines the adoption of the Zoning Ordinance text changes will continue to improve and streamline current energy regulations and support efficient permitting at the State and Federal level for Oil and Gas activities; protect areas of important mineral, petroleum, and agricultural resource potential for future use by promoting sustainability and encouraging best management practices, which are mutually beneficial, through strategic short- and long-range planning; and promote the protection of environmental resources by emphasizing the conservation of productive agricultural lands, the encouragement of planned urban growth, the promotion of clean air strategies to address existing air quality issues, and the promotion of long term water conservation strategies which will promote the quality and adequacy of surface and groundwater supplies for future growth of all of Kern County's industries.

13. This Board finds and determines the adoption of the Zoning Ordinance text changes will contain new development within an area large enough to meet generous projections of foreseeable need, but in locations that will not impair the economic strength derived from residential developments, agriculture, rangeland, mineral resources, or diminish the other amenities that exist in Kern County.

14. This Board finds and determines that the adoption of the requested Zoning Ordinance text changes, as recommended by the Planning and Community Development Department, will serve the public interest and welfare, and the request is accepted and approved.

15. This Board finds and determines that the adoption of the requested Zoning Ordinance text changes are consistent with and implement the policies and goals of the Kern County General Plan, the Kern County Metropolitan Bakersfield General Plan, all Specific Plans in

the boundary area and the Airport Land Use Compatibility Plan protecting the safety of the public, users of the public use airports and military flight and training operations in airspace in the county.

16. The Clerk of this Board shall cause the payment of fees to the California Department of Fish and Wildlife, as required by AB 3158 (Public Resources Code section 10005) and the filing of a Notice of Determination with the County Clerk.

17 The Clerk of this Board shall transmit copies of this Resolution to:

Planning and Community Development Department

Public Works

Fire Chief

Environmental Health Services

Animal Services

County Counsel

California Department of Conservation/Division of Oil, Gas and Geothermal, Resources

California Regional Water Quality Control Board

California Department of Fish and Wildlife

California Air Resources Board

California Environmental Protection Agency

California Natural Resources Agency

California Department of Conservation

San Joaquin Valley Air Pollution Control District

Western States Petroleum Association

California Independent Producers Association

Independent Oil Producers Agency

COPIES FURNISHED:
See above
11/16/2015 kw

EXHIBIT A

FINDINGS OF FACT IN SUPPORT OF DETERMINATIONS

RELATED TO SIGNIFICANT ENVIRONMENTAL IMPACTS

State CEQA Guidelines Section 15091

For

REVISIONS TO THE KERN COUNTY ZONING ORDINANCE – 2015(C) PROJECT

California Independent Petroleum Association
Independent Oil Producers Association
Western States Petroleum Association

Final Environmental Impact Report

(SCH# 2013081079)

Lead Agency: Kern County Planning and Community Development Department

SECTION I. INTRODUCTION

The following findings of fact are based in part on the information contained in the Draft and Final Environmental Impact Report (EIR) for the Revisions to the Kern County Zoning Ordinance – 2015(C) Project ("Project"), as well as additional facts found in the complete record of proceedings. The EIR is hereby incorporated by reference and is available for review at the Kern County Planning and Community Development Department, 2700 "M" Street, Suite 100, Bakersfield, California 93301, during normal business hours.

Public Resources Code section 21002 provides that "public agencies should not approve projects as proposed if there are feasible alternatives or feasible mitigation measures available which would substantially lessen the significant environmental effects of such projects[.]" The same statute provides that the procedures required by CEQA "are intended to assist public agencies in systematically identifying both the significant effects of projects and the feasible alternatives or feasible mitigation measures which will avoid or substantially lessen such significant effects." Section 21002 goes on to provide that "in the event [that] specific economic, social, or other conditions make infeasible such project alternatives or such mitigation measures, individual projects may be approved in spite of one or more significant effects thereof."

The mandate and principles announced in Public Resources Code section 21002 are implemented, in part, through the requirement that agencies must adopt findings before approving projects for which EIRs are required. For each significant environmental effect identified in an EIR for a project, the approving agency must issue a written finding reaching one or more of three permissible conclusions. The first such finding is that changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect as identified in the Final EIR. The second permissible finding is that such

changes or alterations are within the responsibility and jurisdiction of another public agency and not the agency making the finding, and such changes have been adopted by such other agency or can and should be adopted by such other agency. The third potential conclusion is that specific economic, legal, social, technological, or other considerations, including provision of employment opportunities for highly trained workers, make infeasible the mitigation measures or project alternatives identified in the Final EIR. (CEQA Guidelines, § 15091.) Public Resources Code section 21061.1 defines "feasible" to mean "capable of being accomplished in a successful manner within a reasonable period of time, taking into account economic, environmental, social, legal, and technological factors." CEQA Guidelines section 15364 adds another factor: "legal" considerations. (See also *Citizens of Goleta Valley v. Bd. of Supervisors* (1990) 52 Cal.3d 553, 565 (*Goleta II*).)

The concept of "feasibility" also encompasses the question of whether a particular alternative or mitigation measure promotes the underlying goals and objectives of a project. (*City of Del Mar v. City of San Diego* (1982) 133 Cal.App.3d 410, 417 (*City of Del Mar*); *Sierra Club v. County of Napa* (2004) 121 Cal.App.4th 1490, 1506-1509 [court upholds CEQA findings rejecting alternatives in reliance on applicant's project objectives]; see also *California Native Plant Society v. City of Santa Cruz* (2009) 177 Cal.App.4th 957, 1001 (*CNPS*) ["an alternative 'may be found infeasible on the ground it is inconsistent with the project objectives as long as the finding is supported by substantial evidence in the record'"] (quoting Kostka & Zischke, *Practice Under the Cal. Environmental Quality Act* [Cont.Ed.Bar 2d ed. 2009] (*Kostka*), § 17.39, p. 825); *In re Bay-Delta Programmatic Environmental Impact Report Coordinated Proceedings* (2008) 43 Cal.4th 1143, 1165, 1166 (*Bay-Delta*) ["[i]n the CALFED program, feasibility is strongly linked to achievement of each of the primary project objectives"; "a lead agency may structure its EIR alternative analysis around a reasonable definition of underlying purpose and need not study alternatives that cannot achieve that basic goal"].) Moreover, "'feasibility' under CEQA encompasses 'desirability' to the extent that desirability is based on a reasonable balancing of the relevant economic, environmental, social, legal, and technological factors." (*City of Del Mar*, *supra*, 133 Cal.App.3d at p. 417; see also *CNPS*, *supra*, 177 Cal.App.4th at p. 1001 ["an alternative that 'is impractical or undesirable from a policy standpoint' may be rejected as infeasible"] [quoting *Kostka*, *supra*, § 17.29, p. 824]; *San Diego Citizenry Group v. County of San Diego* (2013) 219 Cal.App.4th 1, 17.)

For purposes of these findings (including the table described below), the term "avoid" refers to the effectiveness of one or more mitigation measures to reduce an otherwise significant effect to a less than significant level. Although CEQA Guidelines section 15091 requires only that approving agencies specify that a particular significant effect is "avoid[ed] *or* substantially lessen[ed]," these findings, for purposes of clarity, in each case will specify whether the effect in question has been "avoided" (i.e., reduced to a less than significant level).

CEQA requires that the lead agency adopt mitigation measures or alternatives, where feasible, to substantially lessen or avoid significant environmental impacts that would otherwise occur. Project modification or alternatives are not required, however, where such changes are infeasible or where the responsibility for modifying the project lies with some other agency. (CEQA Guidelines, § 15091, subd. (a), (b).)

With respect to a project for which significant impacts are not avoided or substantially lessened, a public agency, after adopting proper findings, may nevertheless approve the project if the agency first adopts a statement of overriding considerations setting forth the specific reasons why the agency found that the project's "benefits" rendered "acceptable" its "unavoidable adverse environmental effects." (CEQA Guidelines, §§ 15093, 15043, subd. (b); see also Pub. Resources

Code, § 21081, subd. (b).) The California Supreme Court has stated, "[t]he wisdom of approving . . . any development project, a delicate task which requires a balancing of interests, is necessarily left to the sound discretion of the local officials and their constituents who are responsible for such decisions. The law as we interpret and apply it simply requires that those decisions be informed, and therefore balanced." (*Goleta II, supra*, 52 Cal.3d at p. 576.) The EIR for the Project concluded the Project would create any significant and unavoidable impacts; thus, a Statement of Overriding Considerations is required.

These findings constitute the County's best efforts to set forth the evidentiary and policy bases for its decision to approve the Project in a manner consistent with the requirements of CEQA. To the extent that these findings conclude that various mitigation measures outlined in the Final EIR are feasible and have not been modified, superseded or withdrawn, the County hereby binds itself to implement these measures. These findings, in other words, are not merely informational, but rather constitute a binding set of obligations that will come into effect when the County adopts a resolution approving the Project.

In addition, a Mitigation Monitoring and Reporting Program (MMRP) has been prepared for the Project, and is being approved by the Board of Supervisors by the same Resolution that has adopted these findings. The County will use the MMRP to track compliance with Project mitigation measures. The Mitigation Monitoring and Reporting Program will remain available for public review during the compliance period. The Final Mitigation Monitoring and Reporting Program is attached to and incorporated into the environmental document approval resolution and is approved in conjunction with certification of the EIR and adoption of these Findings of Fact.

SECTION II. FINDINGS REGARDING THE POTENTIAL ENVIRONMENTAL EFFECTS OF THE PROJECT

Kern County Planning and Community Development Department issued a Notice of Preparation of a Draft Environmental Impact Report on August 28, 2013. Based on the Initial Study and Notice of Preparation, a determination was made that the EIR would contain a comprehensive analysis of all environmental issues, identified in Appendix G of the California Environmental Quality Act (CEQA) Guidelines.

An Environmental Impact Report (EIR) was prepared for this project in accordance with the California Environmental Quality Act (CEQA) Guidelines. As required by CEQA, the EIR includes appropriate review, analysis, and mitigation measures for the environmental impacts of the proposed project. This Final EIR could be utilized by other permitting agencies in their capacity as Responsible and Trustee agencies under CEQA.

To initiate the EIR process, a Notice of Preparation/Initial Study (NOP/IS) (State Clearinghouse No. (2013081079) was circulated for a 30-day public review period beginning on beginning august 30, 2013 and ending on September 30, 2013. Four scoping meetings were noticed and held at the following locations and dates:

Lost Hills Recreation Building, Lost Hills Park, Hwy 46, Lost Hills, CA (September 16, 2013)

Taft Veterans Hall, Room 1, 218 Taylor Street, Taft, CA (September 18, 2013)

Kern County Board Chambers, 1st Floor Board Chambers, 1115 Truxtun Ave, Bakersfield, CA (September 23, 2013)

EXHIBIT A

Shafter Veterans Building, Room 2, 309 California Avenue, Shafter CA (September 25, 2013)

Thirty Seven (37) written comments were received in response to the circulated Notice of Preparation/Notice of Intent and were used in the preparation of the EIR. An additional ten (10) comments were received after the close of the public comment period. However, Staff included these comments in the NOP Appendix of the EIR (Appendix D).

Based on the analysis contained in the Initial Study and comments received in response to the Notice of Preparation, a Draft EIR was prepared and circulated for a public review period, beginning on July 8, 2015. During the initial review period, Staff notified all recipients of the DEIR and posted a notice on the Planning Department website that the review period was extended to September 11, 2015. In total, over 700 Notices of availability of the Draft EIR were distributed. The Draft EIR was also available on the Kern County Planning and Community Development Department's webpage, as well as the CSUB, Beale, Boron, Arvin, Baker Branch, Delano Branch, Buttonwillow Branch, California City Branch, Kernville Branch, Frazier Park Branch, Holloway/Gonzales Branch, Jackson/McFarland Branch, Kern River Valley Branch, Lamont Branch, Rathburn Branch, Mojave Branch, Northeast Branch, Shafter Branch, Ridgecrest Branch, Wanda Kirk/Rosamond Branch, Tehachapi Branch, Southwest Branch, and Taft Branch Public Libraries. On July 29, 2015, the Planning and Community Development Department extended the review period from August 24, 2015 to September 11, 2015. A Joint Planning Commission and Board of Supervisors Workshop was held on July 27, 2015. As well as two workshops in Shafter and Taft on August 10, 2015 and August 17, 2015, respectively. The workshop comments were included in Chapter 7 – Response to Comments Appendix D-1. Seventy-one (71) written comments from individuals or agencies/organizations were received on the Draft EIR during this public review period. As required by Section 15088 of the State CEQA Guidelines, responses to these comments were prepared and provided to the agencies and interested parties that submitted return addresses. The Response to Comments was provided 10 days before this hearing.

For the purposes of CEQA, and the findings herein set forth, the administrative record for the Project consists of those items listed in Public Resources Code section 21167.6, subdivision (e). The record of proceedings for the County's decision on the Project consists of the following documents, at a minimum, which are incorporated by reference and made part of the record supporting these findings:

- The NOP and all other public notices issued by the County in conjunction with the Project;
- The Draft EIR for the Project and all documents relied upon or incorporated by reference;
- All comments submitted by agencies or members of the public during the 45-day comment period on the Draft EIR;
- All comments and correspondence submitted to the County during the public comment period on the Draft EIR, in addition to all other timely comments on the Draft EIR;
- The Final EIR for the Project, including the Planning Commission staff report, minutes of the Planning Commission public hearing; Board of Supervisors staff report; minutes of the Board of Supervisors public hearing; comments received on the Draft EIR; the County's responses to those comments; technical appendices; and all documents relied upon or incorporated by reference;
- The mitigation monitoring and reporting program (MMRP) for the Project;
- All findings and resolutions adopted by the County in connection with the Project, and all documents cited or referred to therein;

- All reports, studies, memoranda, maps, staff reports, or other planning documents relating to the Project prepared by the County, consultants to the County, or responsible or trustee agencies with respect to the County's compliance with the requirements of CEQA and with respect to the County's action on the Project;
- All documents submitted to the County by other public agencies or members of the public in connection with the Project, up through the close of the public hearing;
- Any minutes and/or verbatim transcripts of all information sessions, public meetings, and public hearings held by the County in connection with the Project;
- Any documentary or other evidence submitted to the County at such information sessions, public meetings and public hearings;
- All resolutions adopted by the County regarding the Project, and all staff reports, analyses, and summaries related to the adoption of those resolutions;
- The County's General Plan and applicable Specific Plans and all updates and related environmental analyses;
- Matters of common knowledge to the County, including, but not limited to Federal, State, and local laws and regulations;
- The County's Zoning Code;
- Any documents expressly cited in these findings, in addition to those cited above; and
- Any other materials required for the record of proceedings by Public Resources Code section 21167.6, subdivision (e).

Pursuant to Guidelines section 15091(e), the administrative record of these proceedings is located and available for review at the Kern County Planning and Community Development Department, 2700 "M" Street, Suite 100, Bakersfield, California 93301, during normal business hours.. The custodian of these documents and other materials is the Kern County Planning and Community Development Department.

The County has relied on all of the documents listed above in reaching its decisions on the proposed Project even if not every document was formally presented to the Board of Supervisors or County Staff as part of the County files generated in connection with the Project. Without exception, any documents set forth above not found in the Project files fall into one of two categories. Many of them reflect prior planning or legislative decisions of which the Board of Supervisors was aware in approving the Project. (See *City of Santa Cruz v. Local Agency Formation Commission* (1978) 76 Cal.App.3d 381, 391-391; *Dominey v. Department of Personnel Administration* (1988) 205 Cal.App.3d 729, 738, fn. 6.) Other documents influenced the expert advice provided to County Staff or consultants, who then provided advice to the Planning Commission and the Board of Supervisors as final decision makers. For that reason, such documents form part of the underlying factual basis for the County's decisions relating to approval of the Project. (See Pub. Resources Code, § 21167.6, subd. (e)(10); *Browning-Ferris Industries v. City Council of City of San Jose* (1986) 181 Cal.App.3d 852, 866; *Stanislaus Audubon Society, Inc. v. County of Stanislaus* (1995) 33 Cal.App.4th 144, 153, 155.)

Based upon the evidence before it, the County finds that the Project will result in one or more "significant and unavoidable" impacts. Therefore, a statement of overriding considerations is required. In other words, the City must consider whether overriding economic, social, and other considerations outweigh the significant, unavoidable effects of the Project, because the Project simply will not create any significant unavoidable effects. The required statement of overriding considerations is included herein. Despite concluding that certain impacts would be less than significant or would have no impact, the EIR nonetheless incorporated mitigation measures to comply with the goals, policies, and implementation measures of the Kern County General Plan

or other adopted regulations. The Board of Supervisors finds that these effects are less than significant or have no impact before and after implementation of these mitigation measures. With respect to all impacts identified as "less than significant" or as having "no impact" in the EIR, the Board of Supervisors finds that those impacts have been described accurately and are less than significant or have no impact as so described in the EIR, as follows:

1. AESTHETICS

A. Environmental Effects of the Project Found to Have No Impact on the Environment, or Have a Less Than Significant Impact on the Environment.

The Project will not have a substantial adverse effect on a scenic vista (Impact 4.1-1).

The Project will not substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a State scenic highway (Impact 4.1-2).

B. Environmental Effects of the Project That Are Potentially Significant, but That Can Be Mitigated to Less Than Significant Levels.

None.

C. Environmental Effects of the Project That Cannot Be Mitigated to a Level Less Than Significant.

Significant Effect:

Without mitigation, the Project has the potential to substantially degrade the existing visual character or quality of the site and its surroundings (Impact 4.1-3).

Description of Specific Impact:

Impacts on aesthetic resources due to construction, operation, well stimulation, or decommissioning/abandonment of oil and gas development facilities would result from changes to existing views of the landscape by viewers with high visual sensitivity (i.e., people with high interest and concern for the visual quality of the landscape and changes to it, such as residents from the vicinity of their homes or people engaging in recreation or leisure activities). Aesthetic impacts may include a substantial change to the landscape character (e.g., from rural, agricultural, or natural to more developed or industrial-appearing) or reduction in scenic quality (e.g., substantially altering views of agricultural, agrarian, or natural landscapes that characterize the area or are valued by local or regional residents for their scenic quality).

While the aesthetic impacts of most single wells or associated facilities could be mitigated, the annual addition of as many as approximately 2,700 wells and the associated ancillary facilities could change the landscape in Kern County. Although most future oil and gas activities would occur in Tier 1 and Tier 2, and more than 2,000 wells could also be removed annually from these areas, there is the potential that areas that are currently primarily agricultural or open space and that have a predominantly rural or natural aesthetic character could be converted to a predominantly industrial developed character with the addition of large numbers of highly visible and noticeable construction and exploratory equipment, materials, vehicles, and construction activities including well stimulation, and decommissioning/abandonment. While less visible, visible facilities during routine operations including well pads, pumping facilities, storage tanks,

access roads, and ancillary facilities could also intensify in these areas. The addition of large amounts of new industrial elements in areas where they currently do not occur or are a minor element in the landscape could substantially reduce the intactness, unity, and vividness of existing views of the landscape throughout the Project Area. Accordingly, the overall aesthetic effects of oil and gas development for this Project could be significant.

Finding:

Although implementation of mitigation measures would reduce the adverse visual changes experienced at individual key observation point locations, there are no mitigation measures that would preserve the existing visual character and quality of the Project Area and its surroundings. Project-related oil and gas activities would continue to produce visible changes to the existing environment and the resultant visual impact is considered significant and unavoidable. All feasible and reasonable changes or alterations have been required in, or incorporated into, the Project to substantially lessen the potentially significant effects identified in the EIR.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's impacts to the existing visual character or quality of the environment. Because Project-related oil and gas activities would continue to produce visible changes to, and thus degrade, the existing environment, there are no feasible and reasonable mitigation measures that can be implemented to reduce this impact to a less than significant level. The following mitigation measures will be incorporated into the Project to lessen the impacts to visual quality to the greatest extent possible:

MM 4.1-1 The Applicant shall use existing roads to access oil production areas, or shall construct new roads (or extend existing roads) to minimize the amount of disturbance without impeding existing surface use.

MM 4.1-2 All derricks, boilers, and other drilling equipment used to drill, repair, clean out, deepen or redrill any well with oil, gas, or other hydrocarbon shall be removed from the drill site within 90 days after completion of production tests or after abandonment of any well. Earthen sumps used in drilling shall be filled within 90 days after any well has been placed in production (unless such sumps are to be used within six months for the drilling of another well), and any sump used in productions shall be filled after its abandonment and restored to a uniform grade within ninety days.

MM 4.1-3 Sumps and ponds shall be permitted only to the extent authorized by the Central Valley Regional Water Quality Control Board (via waiver, Waste Discharge Requirements, or other form of authorized written documentation) and shall comply with all applicable legal requirements and mitigation measures for sumps serving as storage, percolation or evaporation ponds for produced water.

MM 4.1-4 Except where located within agricultural land, new oil or gas tanks located within 200 feet of any sensitive receptor shall be partially screened from public view by shrubs, trees or solid screen fencing. Similarly, new pump sites (including multiple well pump sites) within 500 feet of any dwelling must be surrounded by a fence, at least 6 feet in height, constructed of dark-colored chain-link with wood or metal slates, dark green or brown fabric material, or other more visually restrictive fencing material. The height of all new pumping units shall not exceed

80 feet, and shall be painted in accordance with the Kern County Zoning Ordinance.

MM 4.1-5 Project signage is limited to directional, warning, safety, security and identification signs in connection with oil, gas, or other hydrocarbon drilling and development operations in accordance with Chapter 19.84.135 of the Kern County Zoning Ordinance. For any signage necessary for wayfinding, safety, or security, the Applicant shall use the minimum necessary to adequately communicate the required information.

Significant Effect:

Without mitigation, the Project has the potential to create a new source of substantial light or glare which will adversely affect day or nighttime view in the area (Impact 4.1-4).

Description of Specific Impact:

Impacts on aesthetic resources due to construction, operation, well stimulation, or decommissioning/abandonment of oil and gas development facilities would result from activities that create a new source of substantial light or glare that would adversely affect day or nighttime views in the vicinity of the activities. Construction activities generally occur during daytime hours, and may generate glare from construction equipment, materials, and vehicles. Operation activities and elements that are likely to create new sources of substantial light that would adversely affect nighttime views in the area include nighttime safety and security lighting of storage tank facilities and nighttime flaring of natural gas as a byproduct of production. Flaring would be intermittent and only occur for limited periods in a few locations. Operation activities or elements that are likely to create new sources of substantial glare that would adversely affect daytime views in the area include elements such as pipes, pumping units, tanks, and other facilities with polished metal surfaces or smooth or light-colored finishes. Impacts from glare would primarily result from reflectance of sunlight off of highly reflective surfaces and be dependent upon the location of the sun and orientation of the operation elements relative to viewers. Aesthetic impacts due to substantial glare during operation of oil and gas development facilities are most likely to occur in areas that have very few or no noticeable existing oil and gas or other facilities in the area.

With respect to construction impacts, in the Eastern Subarea, aesthetic impacts of creating a new source of substantial light or glare that would adversely affect day or nighttime views in the area for construction activities for oil and gas development for KOPs 1, 2 and 3 would be less than significant, however, aesthetic impacts of creating a new source of substantial light or glare that would adversely affect day or nighttime views in the area for construction activities for oil and gas development for KOPs 4 and 5 would be significant. In the Central Subarea, aesthetic impacts of creating a new source of substantial light or glare that would adversely affect day or nighttime views in the area for construction activities for oil and gas development for KOPs 7 and 8 would be significant. In the Western Subarea, aesthetic impacts of creating a new source of substantial light or glare that would adversely affect day or nighttime views in the area for construction activities for oil and gas development for KOPs 6 and 10 would be less than significant, but this impact would be significant for KOP 9.

With respect to operation impacts, in the Eastern Subarea, aesthetic impacts of creating a new source of substantial light or glare that would adversely affect day or nighttime views in the area for operation activities for oil and gas development for KOPs 1, 2, 3 and 4 would be less than

significant, but could be significant for KOP 5. In the Central Subarea, aesthetic impacts of creating a new source of substantial light or glare that would adversely affect day or nighttime views in the area for operation activities for oil and gas development for KOP 7 would be less than significant, but could be significant for KOP 8. In the Western Subarea, aesthetic impacts of creating a new source of substantial light or glare that would adversely affect day or nighttime views in the area for operation activities for oil and gas development for KOPs 6 and 10 would be less than significant, but would be significant for KOP 9 within Tier 2 lands.

Because the equipment, vehicles, and materials used for well stimulation, decommissioning and abandonment would appear similar to those used for construction and drilling, the new sources of substantial light and glare in the views from KOPs 1 through 10 would be temporary and similar to those described for construction. For these reasons, aesthetic impacts of creating a new source of substantial light or glare that would adversely affect day or nighttime views in the area for oil and gas development during well stimulation are considered similar to aesthetic impacts for construction of oil and gas development facilities.

Finding:

Without mitigation, the Project has the potential to cause the introduction of a new source of substantial light or glare, which would adversely affect day or nighttime view in the area. Although most of these impacts will be less than significant after mitigation, operation activities and elements could create new sources of substantial light that would significantly adversely affect nighttime views in the area, such as nighttime safety and security lighting of storage tank facilities and nighttime flaring of natural gas as a byproduct of production. All feasible and reasonable changes or alterations have been required in, or incorporated into, the Project that substantially lessen the potentially significant effects identified in the EIR.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the impacts to the environment caused by the introduction of a new source of substantial light or glare. The impacts to nighttime views are anticipated to be significant, and there are no feasible and reasonable mitigation measures that can be implemented to reduce these impacts to a level that is less than significant. The impacts associated with glare are anticipated to be significant; however, mitigation measures can reduce the impacts, though not to less than significant levels. The following mitigation measures will be incorporated into the Project to lessen the impacts to views of the night sky and glare to the greatest extent possible:

MM 4.1.6 Permanent nighttime lighting that will be installed for new facility operations will only be lighting required for safety or security. During operations when the lighting is in use, lighting for safety and security will be shielded and oriented downward, bare bulbs will be fully screened from view from sensitive viewing receptors such as residences, and on-demand lighting and/or timers will be used to minimize visual impacts of lighting. In doing so, the Applicant shall comply with the standards in the amended Chapter 19.81 – Outdoor Lighting "Dark Sky Ordinance."

D. Cumulative Environmental Effects of the Proposed Project That Will Have a Less Than Significant Impact on the Environment.

None.

E. Cumulative Environmental Effects of the Proposed Project That Will Have a Significant Impact on the Environment.

Significant Effect:

The Project will contribute to cumulative visual impacts with respect to degrading the existing visual character or quality of the site and its surroundings, and with respect to additional light or glare which would adversely affect day or night time views.

Description of Specific Impact:

Kern County is a growing community, and the cities within Kern County are likewise planning for continued growth. While the Project will continue to allow, with more stringent mitigation measures as well as expanded substantive and procedural Ordinance mandates, the County's 100+-year industry of oil and gas production activities, this industry does have a visible presence on the landscape and, in combination with the implementation of other reasonably foreseeable plans, will continue to result in visible changes within Kern County. Visible changes to the landscape will occur even with implementation of the mitigation measures and other goals, policies, implementation policies, and mitigation measures for these other General Plans and regional plans, and some may view these visual changes as adverse aesthetic impacts.

Accordingly, cumulative impacts to aesthetic impacts are considered significant, and the Project's incremental contribution to this cumulative impact is considered cumulatively considerable.

Finding:

The Project will combine with impacts of past, present and reasonably foreseeable projects to result in significant and unavoidable cumulative aesthetic impacts to the environment. Specifically, the Project will make a cumulatively significant contribution the introduction of a new source of substantial light or glare, which would adversely affect day or nighttime view in the area. All feasible and reasonable changes or alterations have been required in, or incorporated into, the Project that substantially lessen the potentially significant effects identified in the EIR, though not to a less than significant level. This impact is thus significant and unavoidable.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's impacts to the aesthetic character of the environment. Implementation of Mitigation Measures 4.1-1 through 4.1-6 described above, will reduce the effects of the Project on the aesthetic quality of the Project Area to the greatest extent possible. Despite these mitigation measures, however, the Project will result in significant cumulative impacts to views. There are no feasible and reasonable mitigation measures that will prevent the Project from impacting views. The Project's cumulative visual impact is considered significant and unavoidable.

2. AGRICULTURE AND FOREST RESOURCES

A. Environmental Effects of the Project Found to Have No Impact on the Environment, or Have a Less Than Significant Impact on the Environment.

The Project will not conflict with existing agricultural zoning or Williamson Act Contracts (Impact 4.2-2).

The Project will not conflict with existing zoning for, or cause rezoning of, forest land or timberland (Impact 4.2-3).

The Project will not result in the loss of forest land or conversion of forest land to non-forest use (Impact 4.2-4).

The Project will not result in the cancellation of an open space contract made pursuant to the California Land Conservation Act of 1965 or Farmland Security Zone contract for any parcel of 100 or more acres (Impact 4.2-6).

B. Environmental Effects of the Project That Are Potentially Significant, but That Can Be Mitigated to Less Than Significant Levels.

Significant Effect:

Without mitigation, the Project has the potential to convert prime farmland, unique farmland, or farmland of statewide importance to non-agricultural use (Impact 4.2-1).

Description of Specific Impact:

Oil and gas exploration and production activities that would be authorized through implementation of the proposed Project could result in land disturbance throughout the Project Area. Approximately 364,724 acres of the Core Areas are located within mapped FMMP lands, a majority of which are located within Tier 2 (93%). To provide a conservative analysis, it is assumed that all land disturbed by oil and gas activities within Tier 2 areas would be Farmlands, although, in fact, not all land within Tier 2 is in that category. Therefore, the proposed Project could result in the conversion of 298 acres of Prime Farmland, Farmland of Statewide Importance, or Unique Farmland (collectively, Farmland) annually, with 148 acres of conversion occurring in the Western Subarea, 60 acres occurring in the Central Subarea, and 90 acres in the Eastern Subarea. Given the estimated acreage of agricultural land converted annually, the projected amount of FMMP farmland that could be converted between the years 2015 and 2040 in Tier 2 is a total of 7,450 acres. This represents less than 1% of the total acreage of Farmland (828,973 acres) in Tier 2. Nonetheless, based on the importance of agricultural lands in Kern County and the San Joaquin Valley, this impact is considered significant.

Finding:

Without mitigation, the Project has the potential to convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance to non-agricultural use. These impacts will be reduced to a level that is less than significant with implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's environmental effects related to the conversion prime farmland, unique farmland, or farmland of statewide importance to non-agricultural use. The following mitigation measure will be incorporated into the Project to reduce this impact to a less than significant level:

MM 4.2-1 For new oil and gas exploration and extraction activities that are: 1) on land designated Prime, Farmland of Statewide Importance or Unique Farmland; and 2) that have been actively farmed 5 years or more out of the last 10 years,

agricultural land mitigation is required at a ratio of 1:1. The 1:1 ratio is applied to actual ground disturbance area for oil and gas activities (inclusive of temporary construction and permanent operational impact areas), but excludes non-farmed existing areas such as roads, and tank and maintenance areas, and lands for which agricultural mitigation has previously been provided at a 1:1 ratio. Prior to ground disturbing activity, the Applicant shall submit to the County written evidence of completion of one or more of the following measures to achieve this 1:1 mitigation ratio:

a. Funding and/or purchasing agricultural conservation easements or similar instrument acceptable to the County (to be managed and maintained by an appropriate entity).

b. Purchasing of credits for conservation of agricultural lands from an established agricultural farmland mitigation bank or an equivalent agricultural farmland preservation program managed by the County.

c. Restoring agricultural lands to productive use through the removal of legacy oil and gas production equipment, including well abandonment and removal of surface equipment.

d. Participating in any agricultural land mitigation program adopted by Kern County that provides equal or more effective mitigation than the measures listed above.

Mitigation lands shall meet the definition of Prime Farmland, Farmland of Statewide Importance, and/or Unique Farmland, and be of similar or higher agricultural quality as the lands, as established by the California Department of Conservation. Completion of the selected measure or, with the Kern County Planning and Community Development Director's approval, a combination of measures, are to occur on qualifying land in Kern County. If qualifying lands cannot be found in Kern County, upon written application to the County, the mitigation lands may be located within the San Joaquin Valley (San Joaquin, Stanislaus, Merced, Fresno, Madera, Kings, Tulare, or Kern County) or outside the San Joaquin Valley with written evidence that the same or equivalent crops can be produced on the mitigation land. Mitigation consisting of removal of legacy equipment within active agricultural fields shall not require recordation of an agricultural conservation easement or conservation easement. Available mitigation funding shall be prioritized for acquisition of large blocks of agricultural land for preservation, and removal of legacy equipment, to minimize and mitigate fragmentation and edge impacts.

Significant Effect:

Without mitigation, the Project has the potential to involve other changes in the existing environment which, because of their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use (Impact 4.2-5)

Description of Specific Impact:

Although Kern County Zoning considers oil and gas and agriculture as compatible land uses, certain agricultural practices and portions of the oil and gas production cycle, if conducted in close proximity, would not be compatible and would have direct impacts. Fragmentation of farmland into smaller field sizes could make it difficult for farmers to operate certain types of equipment that are necessary to their planting, production, and harvest operations, or to viably produce certain types of crops. Oil and gas development within agricultural lands could also disrupt irrigation or field drainage systems (see Figure 4.2-3). Truck traffic could generate dust which could harm the photosynthetic processes of plants and potentially cause localized damage to fruit, vegetables, and greens. Row crops could most readily be adjusted to farm plot size and configuration, but removal of orchard trees or supported vines that take years to reach productive maturity may not be as adaptable to changes and, therefore, this impact is considered significant.

Clearing and grading involved with construction of access roads and well pad construction would disturb the agricultural soil and potentially mix topsoil and subsoil, and create dust. Use of heavy equipment, including trucks, and tanks used during oil and gas production activities would result in soil compaction beneath roads leading to well pad areas. Temporary pits and sumps that collect non-hazardous drilling fluids, wellbore cuttings, drilling wastes, crude oil, or produced water, may increase the risk of exposure of agricultural soils to potentially hazardous chemicals and materials.

Finding:

Without mitigation, the Project has the potential to involve other changes in the existing environment which, because of their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use. These impacts will be reduced to a level that is less than significant with implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's environmental effects related to other changes in the existing environment which, because of their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use. The following mitigation measure will be incorporated into the Project to reduce this impact to a less than significant level:

MM 4.2-2 To protect crops and structures adjacent to oil and gas activities on active agricultural lands, each Applicant/operator shall comply with the following mitigation measures set forth in other chapters of this Environmental Impact Report:

a. Surface water runoff and drainage on the well pads shall be mitigated as described in mitigation measures for Hydrology and Water Quality.

b. A Spill Prevention Countermeasure and Contingency Plan or Division of Oil Gas and Geothermal Resources Assembly Bill 1960 spill plan, as applicable, shall be prepared for the site and oil and chemical spills treated in accordance with the Division of Oil Gas and Geothermal Resources Senate Bill 4 Regulations for the site to protect adjacent farmland, as described in mitigation measures for Hazards.

c. Speed limits for oil and gas trucks shall be posted on unpaved roads to reduce dust generation; in the absence of signage, speed limits shall be limited to 25 miles per hour (or an alternate, more stringent dust suppression standard as adopted by the San Joaquin Valley Air Pollution Control District), and Applicants shall attest that employees have been trained in the appropriate speed limits.

d. Unpaved roads shall be watered or otherwise treated for dust suppression and control as described in Mitigation Measure for Air Quality, unless speeds are restricted to 15 mph.

e. Vehicle tracking control shall be installed where unpaved roads intersect with public paved roads, to prevent tracking of mud, dust, and weed seeds off site, unless speeds are restricted to 15 mph. This shall consist of a 50-foot length of a 3 inch-thick layer of gravel one inch or larger in diameter (or an alternate, more stringent dust suppression technique as approved by the San Joaquin Valley Air Pollution Control District).

f. Stormwater control shall be required at construction sites during well drilling, reworking, and/or decommissioning as described in mitigation measures for Hydrology.

g. Hazardous materials shall be stored within secondary containment as described in mitigation measures for Hazards.

h. Overhead electrical or communication lines shall be shown on the Site Plan, and shall be aligned to the greatest extent feasible with existing access roads and the minimum distance between the access road and the well installation or other oil and gas facility, parallel to tree or row crops, described further in mitigation measures for Public Utilities. If the use of existing roads is not feasible, lines shall be routed to minimize surface disturbance and minimize the impacts to surface activity

i. Underground pipelines serving the Project shall be shown on the Site Plan with locations marked and recorded with USAA, and periodically inspected and maintained as described in mitigation measures for Hazards.

C. Environmental Effects of the Project That Cannot Be Mitigated to a Level Less Than Significant.

None.

D. Cumulative Environmental Effects of the Proposed Project That Will Have a Less Than Significant Impact on the Environment.

None.

E. Cumulative Environmental Effects of the Proposed Project That Will Have a Significant Impact on the Environment.

Significant Effect:

The Project will contribute to cumulative impacts to agricultural or forest resources.

Description of Specific Impact:

With respect to agricultural farmland conversion, from 1998 to 2013, in Kern County, the average annual agricultural lands conversion rate has been 1,085 acres. Under the worst-case scenario, 298 acres of Prime Farmland, Farmland of Statewide Importance, or Unique Farmland could be converted annually from the implementation of the proposed Project. This 298 acres of converted Farmland would combine with other losses throughout the County to result in a significant cumulative impact on agriculture. Population growth is expected to continue in the County, and conversion of agricultural land to non-agricultural use can also be expected to occur from the need for additional residential development and infrastructure to accommodate the growth in the County.

Finding:

Impacts of the Project will combine with impacts of past, present and reasonably foreseeable projects to result in significant and unavoidable cumulative impacts to agricultural and forest resources. Specifically, the Project will make a cumulatively significant contribution to the conversion of Prime Farmland, Farmland of Statewide Importance, or Unique Farmland to non-agricultural uses. All feasible and reasonable changes or alterations have been required in, or incorporated into, the Project that substantially reduce the potentially significant effects identified in the EIR, though not to a less than significant level. This impact is significant and unavoidable.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's cumulatively significant contribution to the conversion of Prime Farmland, Farmland of Statewide Importance, or Unique Farmland to non-agricultural uses. Implementation of **MM 4.2-1** and **MM 4.2-2**, described above, will reduce the cumulative effects of the Project on agricultural or forest resources to the greatest extent feasible. Despite these mitigation measures, however, the Project will cause significant cumulative impacts to agricultural or forest resources. There are no feasible and reasonable mitigation measures that will prevent this cumulative impact of the Project. The Project's cumulative impact to agricultural or forest resources is significant and unavoidable.

3. AIR QUALITY

A. Environmental Effects of the Project Found To Have No Impact on the Environment, or Have a Less Than Significant Impact on the Environment.

None.

B. Environmental Effects of the Project That Are Potentially Significant, but That Can Be Mitigated to Less Than Significant Levels.

Significant Effect:

Without mitigation, the Project has the potential to conflict with or obstruct implementation of the applicable air quality plan (Impact 4.3-1).

EXHIBIT A

Description of Specific Impact:

The San Joaquin Valley Air Pollution Control District (SJVAPCD or District) has developed plans to attain state and federal standards for ozone and PM. The District's air quality plans include emissions inventories to identify the sources and quantities of air pollutant emissions, evaluate how well different control methods have worked, and demonstrate how air pollution will be reduced. Emission increases associated with activities under the Project's permitted sources would come from boilers, cogeneration plants, process heaters, reciprocating internal combustion engines, steam generators, production tanks, thermally enhanced oil recovery wells, and VOCDD (flares). These sources would be subject to SJVAPCD prohibitory rules, notably Rule 4455 (Components at Petroleum Refineries, Gas Liquids Processing Facilities, and Chemical Plants) and Rule 4623 (Storage of Organic Liquids). Emissions from new permitted sources would also be required to be mitigated by emission offsets under Rule 2201 (New and Modified Stationary Source Review). Therefore, permitted source emissions would be consistent with the SJVAPCD's adopted regulatory program to attain state and federal ozone and particulate matter standards.

Non-permitted sources and activities would be subject to the following federal and state regulatory programs, which are incorporated within the attainment plans for state and federal ozone and particulate matter standards: (i) heavy-duty engine and on-road vehicle standards enacted by CARB and the EPA (California standards codified at 13 CCR Section 1956.8); (ii) light and medium on-road vehicle standards enacted by CARB (starting at 13 CCR Section 1900). Non-permitted source/activity emissions were calculated using CARB's EMFAC2011 (January 2013) emissions model, which reflects adopted California on-road vehicle emission standards, and CARB'S OFFROAD2011 model to generate fleet average emission factors for off-road mobile sources and portable equipment operated within the SJVAB. Fugitive dust emissions were calculated using predictive emission factors recommended by the EPA in AP42, Fifth Edition. Therefore, non-permitted source/activities would be consistent with adopted regulatory programs incorporated within the SJVAPCD's ozone and particulate matter attainment plans.

Future oil and gas exploration and production activities that would be authorized under the Project would also be required to comply with the policies and measures of the Kern County General Plan and, to the extent applicable to County land, the Metropolitan Bakersfield General Plan.

Oil and gas activities that would be authorized under the Project could conflict with or obstruct implementation of the applicable air quality plan or potentially be inconsistent with the General Plan measures and therefore could be significant.

Finding:

Without mitigation, Project impacts caused by air pollutant emissions could conflict with or obstruct implementation of the applicable air quality plan or potentially be inconsistent with applicable general plan policies or measures. These impacts will be reduced to a level that is less than significant with implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's impacts on the environment caused by the introduction of air pollutant emissions during construction and operation. The following mitigation measures will reduce emissions during both construction and operation to a level that will not obstruct the implementation of an applicable air

quality plan or applicable general plan policies and measures. The following mitigation measures will be incorporated into the Project to reduce this impact to a less than significant level:

MM 4.3-1 Consistent with the requirements of the San Joaquin Valley Air Pollution Control District Regulation II-Permits, the Applicant shall obtain an Authority to Construct permit and a Permit to Operate for any facility or equipment requiring a permit from the San Joaquin Valley Air Pollution Control District, such as stationary sources required to obtain permits pursuant to District Rule 2010. All emissions increases from permitted equipment shall comply with District Rule 2201.

MM 4.3-2 The Applicant shall develop and implement a Fugitive Dust Control Plan in compliance with San Joaquin Valley Air Pollution Control District fugitive dust suppression regulations to further reduce emissions, during construction, of particulate matter that is 10 microns or less and 2.5 microns or less in diameter. The Fugitive Dust Control Plan shall include:

a. Name(s), address(es), and phone number(s) of person(s) responsible for the preparation, submission, and implementation of the plan.

b. Description and location of operation(s).

c. Listing of all fugitive dust emissions sources included in the operation.

d. The following dust control measures shall be implemented:

1. All on-site unpaved roads shall be effectively stabilized using water or chemical soil stabilizers that can be determined to be as efficient as or more efficient for fugitive dust control than California Air Resources Board approved soil stabilizers, and that shall not increase any other environmental impacts including loss of vegetation.

2. All material excavated or graded will be sufficiently watered to prevent excessive dust. Watering will occur as needed with complete coverage of disturbed areas. The excavated soil piles will be watered as needed to limit dust emissions to less than 20% opacity or covered with temporary coverings.

3. Construction activities that occur on unpaved surfaces will be discontinued during windy conditions when winds exceed 25 miles per hour and those activities cause visible dust plumes. Construction activities may continue if dust suppression measures are used to minimize visible dust plumes.

4. Track-out debris onto public paved roads shall not extend 50 feet or more from an active operation and track-out shall be removed or isolated such as behind a locked gate at the conclusion of each workday, except on agricultural fields where speeds are limited to 15 mph.

5. All hauling materials should be moist while being loaded into dump trucks.

6. All haul trucks hauling soil, sand, and other loose materials on public roads shall be covered (e.g., with tarps or other enclosures that would reduce fugitive dust emissions).

7. Soil loads should be kept below 6 inches or the freeboard of the truck.

8. Drop heights should be minimized when loaders dump soil into trucks.

9. Gate seals should be tight on dump trucks.

10. Traffic speeds on unpaved roads shall be limited to 25 miles per hour.

11. All grading activities shall be suspended when visible dust emissions exceed 20%.

12. Other fugitive dust control measures as necessary to comply with San Joaquin Valley Air Pollution Control District Rules and Regulations.

13. Disturbed areas should be minimized.

14. Disturbed areas should be re-vegetated as soon as possible after disturbance if area is no longer needed for oil and gas activities.

MM 4.3-3 All off-road construction diesel engines not registered under California Air Resources Board's Statewide Portable Equipment Registration Program, which have a rating of 50 horsepower or more, shall meet, at a minimum, the Tier 3 California Emission Standards for Off-road Compression-Ignition Engines as specified in California Code of Regulations, Title 13, section 2423(b)(1) unless that such engine is not available for a particular item of equipment. In the event a Tier 3 engine is not available for any off-road engine larger than 100 horsepower, that engine shall be equipped with retrofit controls that would provide nitrogen oxides and particulate matter emissions that are equivalent to Tier 3 engine.

a. All equipment shall be turned off when not in use. Engine idling of all equipment shall be limited to five minutes, except under exemptions specified in California Code of Regulations Title 13 Section 2449(d)(2)(A).

b. All equipment engines shall be maintained in good operating condition and in proper tune per manufacturers' specifications.

MM 4.3-4 To further reduce emissions of oxides of nitrogen from on-road heavy-duty diesel haul vehicles:

a. 2007 engines or pre-2007 engines shall comply with California Air Resources Board retrofit requirements set forth in California Code of Regulations Title 13 Section 2025.

b. All on-road construction vehicles, except those meeting the 2007/California Air Resources Board-certified Level 3 diesel emissions controls, shall meet all applicable California on-road emission standards and shall be licensed in the State of California. This does not apply to worker personal vehicles.

c. All on-road construction vehicles shall be properly tuned and maintained in accordance with the manufacturers' specifications.

Significant Effect:

Without mitigation, the Project will violate any air quality standard as adopted in (c)i or (c)ii, or established by the United States Environmental Protection Agency or Air District or contribute substantially to an existing or projected air quality violation (Impact 4.3-2).

Description of Specific Impact:

Emissions generated by the Project were evaluated against the SJVAPCD Air Quality Thresholds of Significance for Criteria Pollutants. Air quality impacts associated with the Project were separated by construction and operational emissions.

Total Project emissions resulting from the construction of new facilities on an annual basis would exceed the SJVAPCD Criteria Pollutant Significance Thresholds except SO_2. However, construction of new facilities would be subject to the District's air permitting process, which would ensure that all such emissions would have to be fully offset. Therefore, there would no net increase in these emissions.

Permit-exempt equipment and small production settings consist mainly of pressure vessels and piping components. Future production activities would entail the construction of these types of small production settings. The emissions of all criteria pollutants except SO2 associated with construction activities related to permit-exempt equipment and small production settings would exceed the SJVAPCD construction emissions threshold. These types of construction activities do not require air permits and therefore these emissions would not be offset.

The construction activities related to wells include well drilling, rework of wells, well stimulation and well abandonment. Emissions associated with well construction activities would exceed SJVAPCD Construction Emissions Thresholds and, without mitigation, would be a significant impact.

With respect to operations, emissions from permitted stationary sources, permit-exempt equipment, and mobile sources at a Project level would result in emissions levels that would exceed SJVAPCD Operational Emissions Threshold. Only the permitted stationary sources would be required to be off-set because it is a condition of SJVAPCD air permit. Therefore, there would be no net increase in these emissions. Permit-exempt equipment and mobile sources would also result in emissions level that would exceed the District's Operation Emission Threshold, but would not be required to be offset. These emissions would thus result in a considerable net increase of certain criteria pollutants and would be a significant impact without mitigation.

Finding:

Without mitigation, Project impacts caused by air pollutant emissions could violate any air quality standard as adopted in (c)i or (c)ii, or established by the United States Environmental Protection Agency or Air District or contribute substantially to an existing or projected air quality violation. These impacts will be reduced to less than significant with implementation of all reasonable and feasible mitigation measures, as described below. Therefore this impact is less than significant with mitigation.

EXHIBIT A

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's impacts on the environment caused by the introduction of air pollutant emissions during construction and operation. The following mitigation measures will reduce emissions during both construction and operation to a level that will not violate any air quality standard as adopted in (c)i or (c)ii, or established by the United States EPA or Air District, or contribute substantially to an existing or projected air quality violation. The following mitigation measures will be incorporated into the Project to reduce this impact to a less than significant level: **MM 4.3-1**, **MM 4.3-2**, **MM 4.3-3**, and **MM 4.3-4**, described above.

Significant Effect:

Without mitigation, the Project has the potential to expose sensitive receptors to substantial pollutant concentrations (Impact 4.3-3).

Description of Specific Impact:

Project construction and operational emissions would exceed the current 10 in one million CEQA significance threshold for cancer risk if a 10,000-foot well is drilled, and if a 5,000-foot well is drilled for the years 2015 to 2017, assuming that the risk level in years 2016 and 2017 would be the same as in 2015. The cancer risk from all oil processing equipment emissions would exceed 10 in one million from the fenceline to 478 to 701 feet, depending on the Subarea. Emissions and risk from any future proposed facilities would be required to meet the Air District's risk threshold which is currently 10 in one million. Therefore, this impact would be significant without mitigation. Moreover, onsite construction workers potentially could be exposed to Valley Fever from fugitive dust generated during construction of the proposed Project, notably during excavation, grading, and other earthmoving activities. The risks associated with exposure to Valley Fever are also significant without mitigation.

Finding:

Project impacts to sensitive receptors from emissions during construction and operations, and risks associated with exposure to Valley Fever from fugitive dust, will be reduced to less than significant levels with the incorporation of mitigation measures. These impacts will be reduced to a level that is less than significant with implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's impacts to the environment caused by the introduction of air pollutant emissions during construction and operation. The following mitigation measures will reduce emissions during both construction and operation to a level that will not expose sensitive receptors to substantial pollutant concentrations. The following mitigation measures will be incorporated into the Project to reduce this impact to a less than significant level:

MM 4.3-5 Construction:

The Site Plan Application shall include a Site Vicinity Figure showing the location of any sensitive receptor(s) within 3,000 feet of the construction site

(potential impact area) for the proposed new well or other ancillary facility or equipment (excluding pipelines).

a. If there are no sensitive receptors within this potential impact area, then no construction mitigation measures shall be required.

b. If there are sensitive receptors within the potential impact area, then additional information must be provided showing the setback from the closest edge of the well pad to the property line of the nearest sensitive receptor. The minimum distances shall be as follows:

Well Depth (Feet)	Minimum Setback Distance from Well Site to Adjacent Property Line of an Existing Sensitive Receptor (Feet)
Western Subarea	
10,000	367
5,000	116
2,000	NA
Central Subarea	
10,000	367
5,000	116
2,000	NA
Eastern Subarea	
10,000	296
5,000	NA
2,000	NA

c. If the above setbacks cannot be met, and for existing wells, the Applicant shall provide a site-specific or other risk assessment to the San Joaquin Valley Air Pollution Control District, which may include implementation of one or more of the following risk minimization measures, or other such measures that are demonstrated by the Applicant to the San Joaquin Valley Air Pollution Control District, to achieve a level of risk less than the threshold risk level, and shall provide confirmation from the San Joaquin Valley Air Pollution Control District that the activity that is the subject of the application will not exceed the risk threshold:

1. Placement of engines in the potential impact area away from the sensitive receptors.

2. Utilize directional drilling to locate rig away further from the sensitive receptor(s).

3. Use of late-model engines, low-emission diesel products, alternative cleaner fuels (e.g., natural gas or liquefied petroleum gas), engine retrofit technology, add-on devices such as diesel particulate filters or oxidation catalyst, and/or other options as such become available to reduce emissions from off-road and other equipment.

4. Utilize electricity line power if available.

5. Shutdown all equipment when not in use, and otherwise minimize engine idling by limiting idling to 15 minutes.

6. Use of automatic rigs.

7. Assist and pay to relocate residents to temporary lodging during well construction, drilling, and completion activities, if such residents voluntarily agree to such relocation.

MM 4.3-6 Applicants shall include in their Worker Environmental Awareness Program information on how to recognize the symptoms of Valley Fever and to promptly report suspected symptoms of work-related Valley Fever to a supervisor. Workers exposed to fugitive dust shall be provided with the option of using a filter fitted over their nose and mouth, secured by a strap, including training for appropriate mask practices as part of the Worker Environmental Awareness Training Program.

C. Environmental Effects of the Project That Cannot Be Mitigated to a Level Less Than Significant.

Significant Effect:

The Project will create objectionable odors that affect a substantial number of people (Impact 4.3-4)

Description of Specific Impact:

During construction activities, odorous compounds may be present in the exhausts from on-road vehicles and off-road construction equipment. The operations of drilling, completing, and stimulation of wells may also result in the release of odorous compounds. According to the SJVAPCD, there was only one unconfirmed odor complaint related to construction activities filed over three years. Since the District's threshold for unconfirmed complaints is three or more complaints per year averaged over three years (that is, nine unconfirmed complaints over three years), odor impacts from construction operations are not expected to be significant.

With respect to the operation of permitted equipment used for crude oil and natural gas production and processing, less than three unconfirmed complaints and less than two confirmed complaints were filed over a three-year period. Both the number of unconfirmed and confirmed complaints do not exceed the thresholds of significance established by the odor complaints for a given petroleum production or gas processing facility. This indicates that in general operation of permitted equipment does not result in an appreciable amount of emissions of odorous

compounds. In addition to the complaints analysis, the odor assessment screening tool based on the list of facilities presented in EIR Table 4.3-38 shows that oil and gas production and processing facilities are not included in the list of common facilities that are likely to have potentially significant odor emissions.

Non-permitted activities with a potential to release odors consists mainly in on-road travel and well maintenance. During well maintenance, a fluid is normally introduced into the well bore, and the hydraulic pressure exerted by the fluid prevents gas from escaping into the atmosphere. Diesel-fueled trucks traveling on local roadways would produce exhaust odors that could be considered offensive to some individuals. Although, in general, odors associated with diesel fumes are temporary and disperse rapidly with distance from the source, exposure of receptors to objectionable odor emissions from mobile-sources represent an unavoidable nuisance.

Finding:

The Project will continue to create odors, but based on past and projected future operations has not resulted in any significant adverse impacts to nearby sensitive receptors. However, exposure of receptors to objectionable odor emissions from mobile-sources represent an unavoidable nuisance. Therefore, the Project could create objectionable odors that affect a substantial number of people. These impacts will be reduced with implementation of all reasonable and feasible mitigation measures, as described below, but not to less than significant levels. Therefore this impact is significant and unavoidable.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to create objectionable odors that affect a substantial number of people. Implementation of **MM 4.3-7**, described below and incorporated into the Project, will reduce the Project's odor impacts to the greatest extent feasible. Despite this mitigation measure, however, the Project will cause significant odor impacts. There are no feasible and reasonable mitigation measures that will prevent this impact of the Project. The Project's odor impacts are significant and unavoidable.

MM 4.3-7 Applicant shall submit an Odor Complaint Management Plan to the County prior to receiving its first Site Plan conformity review approval. The Plan shall include a designated contact for odor complaints, creation of a log for odor complaints, and protocol for handling odor complaints. The odor log and report files shall be available for public review upon request.

D. Cumulative Environmental Effects of the Proposed Project That Will Have a Less Than Significant Impact on the Environment.

None.

E. Cumulative Environmental Effects of the Proposed Project That Will Have a Significant Impact on the Environment.

Significant Effect:

The Project will result in a cumulatively considerable net increase of a criteria pollutant for which the region is nonattainment under an applicable federal or state ambient air quality standard (Impact 4.3-5).

Description of Specific Impact:

The San Joaquin Valley Air Basin (SJVAB) is in nonattainment for $PM_{2.5}$, PM_{10}, and ozone. Ozone is addressed by examining its precursors which are NO_X, VOC, and CO. The construction and operational activities of oil and gas activities that would be authorized under this Project would result in a considerable net increase of the following criteria pollutants NO_x, VOC, CO, PM_{10} and $PM_{2.5}$, in excess of the recommended criteria pollutant significance threshold adopted by the SJVAPCD Board. Moreover, the Project would contribute between two and 14% of these pollutants in the SJVAB or between 19% and 97% of Kern County's contribution. The EIR's analysis indicates that most SO_2 emissions in Kern County would originate from oil and gas activities and the majority of NO_X emissions. Therefore, the proposed Project would have a cumulatively considerable contribution of criteria pollutant (NO_X, PM_{10}, $PM_{2.5}$, CO and SO_2) emissions to the Kern County portion of the SJVAB. Therefore, the contribution of Project-related impacts to air quality would be cumulatively considerable.

Finding:

Air quality impacts of the Project will combine with impacts of past, present and reasonably foreseeable projects to result in a cumulatively considerable net increase of criteria pollutants for which the Project region is in nonattainment under an applicable federal or state ambient air quality standard. Specifically, the Project will make a cumulatively significant contribution of criteria pollutant (NO_X, PM_{10}, $PM_{2.5}$, CO and SO_2) emissions to the Kern County portion of the SJVAB, which is in nonattainment for $PM_{2.5}$, PM_{10}, and ozone precursors (i.e, NO_X, VOC, and CO). All feasible and reasonable changes or alterations have been required in, or incorporated into, the Project that substantially reduce the potentially significant effects identified in the EIR, though not to a less than significant level. Thus, this impact is significant and unavoidable.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to result in a cumulatively considerable net increase of criteria pollutants for which the Project region is in nonattainment under an applicable federal or state ambient air quality standard. Implementation of **MM 4.3-1, MM 4.3-2, MM 4.3-3, and MM 4.3-4**, described above, and **MM 4.3-8**, described below, will reduce the Project's potential to result in a cumulatively considerable net increase of criteria pollutants for which the Project region is in nonattainment. Despite these mitigation measures, however, this cumulative impact will remain significant. There are no feasible and reasonable mitigation measures that will prevent this cumulative impact of the Project. Accordingly, this impact is significant and unavoidable.

MM 4.3-8 For criteria emissions not required to be offset under a District rule as described in MM 4.3-1, and for Project vehicle and other mobile source emissions, the County will enter into an emission reduction agreement with the San Joaquin Valley Air Pollution Control District, pursuant to which the Applicant shall pay fees to fully offset Project emissions of oxides of nitrogen, reactive organic gases, and particulate matter of 10 microns or less in diameter (including as applicable mitigating for reactive organic gases by additive reductions of particulate matter of 10 microns or less in diameter) (collectively, "designated

criteria emissions") to avoid any net increase in these pollutants. The air quality mitigation fee shall be paid to the County as part of the Site Plan review and approval process, and shall be used to reduce designated criteria emissions to fully offset Project emissions that are not otherwise required to be fully offset by District permit rules and regulations.

As an alternative to paying the fee, an Applicant may reduce emissions for one or more designated criteria emissions through actual reductions in air emissions from other Applicant sources, as submitted to the County and validated by the District. This Project offset requirement alternative shall be enforced by the County and verified by San Joaquin Valley Air Pollution Control District, and must be approved in advance by the San Joaquin Valley Air Pollution Control District. If a voluntary emission reduction agreement is not executed by the County and San Joaquin Valley Air Pollution Control District, then each Applicant must mitigate for the full amount of designated criteria pollutants as verified by the San Joaquin Valley Air Pollution Control District, with evidence of such District-verified offsets presented as part of the Site Plan Conformity Review application documentation.

Examples of feasible air emission reduction activities that may be funded by air quality fees paid by Applicant or proposed and implemented by the Applicant under the emission reduction agreement include, but are not limited to, the following:

a. Replacing or retrofitting diesel-powered stationary equipment such as motors on generators, pumps and wells with electric or other lower-emission engines that are not subject to Title V reductions.

b. Replacing or retrofitting diesel-powered school, transit, municipal and other community mobile sources such as buses, car fleets, and maintenance equipment, with electric or other lower-emission engines.

c. Reducing emissions from public infrastructure sources such as water and wastewater treatment and conveyance facilities, and reducing water-related emissions through water conservation and reclamation.

d. Funding lower-emission equipment and processes for local businesses, schools, non-profit and religious institutions, hospitals, city and county facilities.

4. BIOLOGICAL RESOURCES

A. Environmental Effects of the Project Found to Have No Impact on the Environment, or Have a Less Than Significant Impact on the Environment.

None.

B. Environmental Effects of the Project That Are Potentially Significant, but That Can Be Mitigated to Less Than Significant Levels.

Significant Effect:

Without mitigation, the Project has the potential to cause substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations by the California Department of Fish and Wildlife or the United States Fish and Wildlife Service. (Impact 4.4-1).

Description of Specific Impact:

Potential Special Status Plant Impacts.

As explained in EIR section 4.4, potential impacts to special status plants were analyzed by using: (1) statistical and habitat suitability models for 9 plant species, and (2) an assessment of the occurrence potential of 31 plant species by tier and subarea for which sufficient modeling data is not available.

Potential Impacts to Modeled Special Status Plants

If the maximum level of annual disturbance conservatively assumed in EIR Table 4.4-71 occurred each year for 25 years, impacts to modeled special status plants in the Project Area could range from 0.9% (Kern County larkspur) to 33.9% (Lost Hills crownscale) of the total modeled high quality habitat. On an annual basis, potential impacts would range from 0.04% (Kern County larkspur) to 1.36% (Lost Hills crownscale) of the total Project Area modeled high quality habitat. Impacts to the Lost Hills crownscale, heartscale San Joaquin woolly-threads, Kern mallow, recurved larkspur, and California jewelflower could range from 0.41% to 1.36% per year, and 10.2% to 33.9% over 25 years, of total Project Area high quality modeled habitat. Impacts to poor to moderate quality modeled habitat would range from 0.24% to 0.24% per year and 5.9% to 6.2% over 25 years for each of the six modeled plants for which such data was available. These impacts to modeled special status plants would be significant without mitigation.

Potential Impacts to Non-Modeled Special Status Plants

Eight of the non-modeled plants occur in all three subareas: Bakersfield smallscale, Coulter's goldfield, Horn's milk vetch, Tejon poppy, Mason's neststraw, Munz's tidy tips, Oil neststraw, and Hispid bird's-beak. These species are the most widely distributed in the Project Area, and could also occur in both Tier 1 and Tier 2 locations where more than 97% of future disturbance is projected to occur. As a result, impacts to these species would be significant without mitigation.

Seven of the non-modeled plants occur only in the Eastern Subarea: Calico monkeyflower, California satintail, California tortula moss (California screw-moss), Comanche Point layia, Shevock's golden aster, Striped adobe-lily, and Vasek's clarkia. All of these species could also occur in Tiers 1 through 3 within the Eastern Subarea. As discussed above, about 21% (1,003 acres per year) of all Project Area future disturbance is projected to occur in the Eastern Subarea, of which 84% would occur in Tier 1, 9% in Tier 2, and 6% in Tier 3. As a result, the seven non-modeled plant species that occur only in the Eastern Subarea of the Project Area also could occur in Tiers 1 through 3 which account for 99% of the total projected future disturbance in the subarea. Impacts to these species would be significant without mitigation.

Six of the non-modeled plants occur only in the Western Subarea: Diamond-petaled California poppy, Hall's tarplant, Jared's pepper-grass, Lemmon's jewel flower, Showy golden madia, and Temblor buckwheat. All of these species could also occur in Tier 1 and Tier 2 within the Western Subarea. As discussed above, about 71% (3,460 acres per year) of all Project Area future disturbances is projected to occur in the Western Subarea, of which 94% would occur in Tier 1

and 4.5% would occur in Tier 2. As a result, the six non-modeled plant species that occur only in the Western Subarea also could occur in Tiers 1 through 2, which account for 98.5% of the total projected future disturbance in the subarea. Impacts to these species would be significant without mitigation.

One non-modeled plant, Erectstem saltbush, occurs only in the Central Subarea. This species is not expected to occur in Tier 1, but could occur in Tiers 2 through 4 of the Central Subarea. About 8% of total Project Area disturbance is projected to occur in the Central Subarea, and 24% of this potential activity (about 93 acres per year) would occur in Tiers 2 through 4. The species is associated with seasonal wetlands and washes located in the northern portion of the Central Subarea, some of which is protected in existing preserve lands. Although impacts to Erectstem saltbush would likely be lower than for other non-modeled plant species due to the limited locations in which the species occurs, potential impacts could still be significant without mitigation in the event future oil and gas activities occur in these areas.

One non-modeled plant, spiny-sepaled button-celery, occurs only in the Central and Eastern Subareas. This species could also occur within Tiers 1 through 4 of in the Central and Eastern Subareas. About 29% of total Project Area disturbance is projected to occur in the Central and Eastern Subareas, and 99.9% of this potential activity (about 1,395 acres per year) would occur in Tiers 1 through 4. Potential impacts to the spiny-sepaled button-celery would be significant without mitigation because the species occurs in locations where almost all future oil and gas disturbance would be concentrated in the Central and Eastern Subareas.

Three non-modeled plants, Pale yellow layia, Piute Mountains navarretia, and Round-leaved filaree, only occur in hilly terrain within the Western and Eastern Subareas. These species could also occur within Tiers 1 through 4 of in the Western and Eastern Subareas. About 92% of total Project Area disturbance is projected to occur in the Western and Eastern Subareas, and 99.9% of this potential activity (about 4,460 acres per year) would occur in Tiers 1 through 4. Potential impacts to the Pale yellow layia, Piute Mountains navarretia, and Round-leaved filaree, would be significant without mitigation because these species occur in locations where almost all future Project Area oil and gas disturbance would be concentrated.

Five non-modeled plants, Alkali mariposa lily, Deltoid bract saltbush (*Subtle orache*), Lesser saltscale, Slough thistle, and Kings gold, only occur within the Western and Central subareas. These species could also occur within Tiers 1 through 4 of in the Western and Central Subareas. About 79% of total Project Area disturbance is projected to occur in the Western and Central Subareas, and 99.9% of this potential activity (about 3,851 acres per year) would occur in Tiers 1 through 4. Potential impacts to the Alkali mariposa lily, Deltoid bract saltbush, Lesser saltscale, Slough thistle, and Kings gold would be significant without mitigation because these five species occur in locations where almost all future oil and gas disturbance would be concentrated in the Western and Central Subareas.

Potential Special Status Wildlife Impacts

Potential impacts to special status wildlife were analyzed by using: (1) statistical and habitat suitability models for 28 wildlife species, and (2) an assessment of the occurrence potential of 19 special status wildlife species by tier and subarea for which sufficient modeling data is not available.

Potential Impacts to Special Status Mammals

As shown in EIR Tables 4.4-79 to 81, potential impacts to 13 special status mammals were evaluated, including 10 modeled and 3 non-modeled species. The modeled species include the San Joaquin kit fox, the "umbrella" species identified by the SJV Recovery Plan, and three "keystone species" in the SJV Recovery Plan, the giant, Tipton, and short-nosed kangaroo rats.

EIR Table 4.4-79 shows that impacts to high quality modeled habitat for several mammals would either substantially (San Joaquin pocket mouse, San Joaquin kit fox, Tipton kangaroo rat) or largely (San Joaquin antelope squirrel, giant kangaroo rat, Tulare grasshopper mouse, short-nosed kangaroo rat) occur in Tier 1 locations and in the Western Subarea. Impacts to American badger high quality modeled habitat would also be concentrated in Tier 1 locations, but would occur in the Eastern Subarea to a greater extent than in the Western Subarea. Impacts to modeled high quality habitat for the western mastiff bat would be smaller in magnitude than for other mammals and largely confined to Western Subarea Tier 1 locations. Buena Vista shrew high quality habitat is relatively rare in the Project Area and generally associated with isolated existing or historical lakebed locations. About 1.2 acres of modeled Buena Vista shrew high quality habitat could be impacted each year, primarily in the Central Subarea. Impacts to modeled high quality mammal habitat would range from 3,000 to nearly 4,000 acres per year for the San Joaquin kit fox and pocket mouse, and from about 300 acres to over 1,700 acres per year for the San Joaquin antelope squirrel, American badger, giant kangaroo rat, Tulare grasshopper mouse, short-nosed kangaroo rat, and Tipton kangaroo rat.

EIR Table 4.4-80 shows that, for most species, modeled poor to moderate quality habitat comprises the majority of the land in each tier and subarea. Consequently, impacts to modeled poor to moderate quality special status mammal habitats would generally occur to the greatest extent in the Western Subarea, to a lesser extent in the Eastern Subarea, and mainly in Tier 1 areas because the largest amount of future disturbance is projected to occur in these portions of the Project Area. Special status mammals with the greatest amount of poor to moderate quality modeled habitat, and the largest level of potential impacts to such habitat, include the western mastiff bat (foraging), Tipton kangaroo rat, short-nosed kangaroo rat, and Tulare grasshopper mouse. Table 4.4-80 also indicates that certain species with proportionately higher amounts of high quality habitat in the Project Area, including the American badger, San Joaquin antelope squirrel, and San Joaquin kit fox, would also be subject to potential impacts to poor to moderate quality habitat ranging from 1,787 acres (San Joaquin kit fox) to nearly 3,500 acres per year (American badger). Given the proximity of large amounts of high-quality habitat in the Project Area, it is more likely that impacts to occupied habitat could also occur to these species in areas of modeled poor to moderate quality habitat.

EIR Table 4.4-82 analyzes the amount of total modeled high quality habitat for each modeled special status mammal, and low to moderate quality habitat for each species except the San Joaquin pocket mouse in the Project Area that could be impacted by the projected annual level of disturbance summarized in Table 4.4-72 over 25 years.

EIR Table 4.4-82 indicates that, if the maximum level of annual disturbance conservatively assumed in Table 4.4-71 occurred each year for 25 years, impacts in the Project Area could range from 0.4% (Buena Vista shrew) to 27.7% (giant kangaroo rat) of the total modeled high quality habitat. On an annual basis, potential impacts would range from 0.02% (Buena Vista shrew) to 1.11% (giant kangaroo rat) of the total Project Area modeled high quality habitat. Impacts to the giant kangaroo rat, San Joaquin antelope squirrel, short-nosed kangaroo rat, San Joaquin kit fox, Tulare grasshopper mouse, and San Joaquin pocket mouse could range from 0.43% to 1.11% per year, and 10.8% to 27.7% over 25 years, of total Project Area high quality modeled habitat. Impacts to poor to moderate quality modeled habitat would range from 0.12% (San Joaquin kit

fox) to 0.26% (Tipton Kangaroo rat) per year and 3% to 6.6% over 25 years. Impacts to the Buena Vista Lake shrew would affect less than 0.5% of total high quality modeled habitat and 4.1% of poor to moderate quality modeled habitat in the Project Area if the maximum level of potential impacts occurred annually for 25 years. Potential impacts to special status mammals would be significant without mitigation.

The occurrence assessment for the pallid bat, ringtail, and Townsend's big-eared bat indicates that these species could occur in Tiers 1 through 4 in the Western and Eastern Subareas. About 92% of the total potential annual impacts in the Project Area (4,460 acres) would occur in these locations. The Townsend's big-eared bat could also occur in the Central Subarea. Potential impacts to these species could be significant without mitigation. The ringtail is a nocturnal species that requires access to perennial water sources and generally prefers areas with high vegetative cover. It is more likely to occur in higher elevations, or in deeper canyons with reliable water supplies, than in most of the lower elevation, drier, and sparsely-covered portions of the Project Area. Potential impacts to the ringtail would be unlikely to occur in most of the Project Area other than deeper canyons and in higher elevation locations with significant groundcover and access to perennial water sources.

Potential Impacts to Special Status Reptiles and Amphibians

As shown in EIR Tables 4.4-79 to 4.4-81, potential impacts to 10 special status reptiles and amphibians were evaluated, including seven modeled and three non-modeled species. The modeled species include the blunt-nosed leopard lizard (BNLL), a state and federal endangered and state fully protected species, and the Tehachapi slender salamander, as state threatened species.

EIR Table 4.4-79 shows that impacts to modeled high quality habitat for BNLL and the San Joaquin coachwhip would largely occur in Tier 1 locations and in the Western Subarea. Impacts to BNLL high quality modeled habitat would, using the conservative assumptions summarized in EIR Table 4.4-72, be about 1,774 acres per year, and 1,269 acres per year for the San Joaquin coachwhip. Impacts to other modeled species' high quality habitat, including the silvery legless lizard, western pond turtle, coast horned lizard, Tehachapi slender salamander, and western spadefoot would range from 0.03 acres per year (western spadefoot) to 103 acres per year for the silvery legless lizard. Potential impacts to modeled high quality habitat for the Tehachapi slender salamander would be limited to the Eastern Subarea, and to the Western Subarea for the western spadefoot. Potential impacts to other modeled high quality habitat could occur in all three subareas (silvery legless lizard, western pond turtle) and the Western and Southern Subareas (coast horned lizard).

EIR Table 4.4-80 indicates that modeled poor to moderate quality habitat comprises the majority of the land in each tier and subarea. Consequently, impacts to modeled poor to moderate quality reptile and amphibian habitats would generally occur to the greatest extent in the Western Subarea, to a lesser extent in the Eastern Subarea, and mainly in Tier 1 areas because the largest amount of future disturbance is projected to occur in these portions of the Project Area. Reptiles and amphibians with the greatest amount of poor to moderate quality modeled habitat, and the largest level of potential impacts to such habitat, include the western spadefoot, coast horned lizard, western pond turtle and silvery legless lizard. Two species, the BNLL and the coachwhip, have relatively high amounts of modeled high quality habitat in the Project Area. Impacts to occupied habitat may also be more likely to occur to these species in areas of modeled poor to moderate quality habitat.

EIR Table 4.4-83 analyzes the amount of total modeled high quality habitat for each modeled special status reptile and amphibian, and low to moderate quality habitat for each species except the Tehachapi slender salamander in the Project Area that could be impacted by the projected annual level of disturbance summarized in Table 4.4-72 over 25 years.

EIR Table 4.4-79 indicates that, if the maximum level of annual disturbance conservatively assumed in Table 4.4-72 occurred each year for 25 years, impacts in the Project Area could range from 0.5% (western spadefoot, Tehachapi slender salamander) to 22.4% (San Joaquin coachwhip) of the total modeled high quality habitat. On an annual basis, potential impacts would range from 0.02% (western spadefoot, Tehachapi slender salamander) to 0.89% (San Joaquin coachwhip) of the total Project Area modeled high quality habitat. Impacts to the BNLL, western pond turtle, coachwhip and silvery legless lizard could range from 0.40% to 0.89% per year, and 9.9% to 22.4% over 25 years, of total Project Area modeled high quality habitat. Potential annual and 25-year impacts to modeled high quality habitat for the coast horned lizard, Tehachapi slender salamander and western spadefoot would affect between 0.5% to 0.7% of total modeled high quality habitat in the Project Area if the maximum level of potential impacts occurred annually for 25 years. As discussed below, mitigation measures that require the avoidance (unless fully permitted by state and federal resource agencies) impacts to riparian and aquatic habitats in addition to species-related mitigation measures would reduce the level of the potential impacts to the Tehachapi slender salamander, western spadefoot and western pond turtle by avoiding the primary habitats where these species occur. Impacts to modeled poor to moderate quality habitat would range from 0.18% (BNLL) to 0.26% (coast horned lizard) per year and 4.5% to 6.5% over 25 years. These impacts would be significant without mitigation.

The occurrence assessment for the California red-legged frog, California tiger salamander, Kern Canyon slender salamander, and Yellow-blotched salamander indicates that the Project would be unlikely to significantly impact these species. None have a substantial likelihood of occurring in Tier 1 areas, where over 90% of future disturbance is projected to be concentrated. The potential occurrence of the California red-legged frog and California tiger salamander is generally limited to Tier 2 locations in the far northwest corner of the Project Area and where critical habitat has been designated for these species (see Figure 4.4-3). The Kern Canyon slender salamander is generally limited to the Tier 2 and Tier 3 areas in the vicinity of the Kern River canyon. The yellow blotched salamander generally occurs in Tier 2 and Tier 4 areas in the Eastern and Western Subareas. As discussed below, mitigation measures that require the avoidance (unless fully permitted by state and federal resource agencies) of impacts to riparian and aquatic habitats in addition to species-related mitigation measures would reduce the level of the potential impacts to the Kern Canyon slender salamander in aquatic habitats associated with the Kern River and aquatic habitats that also support the yellow blotched salamander in the Eastern and Western Tier 2 and Tier 4 locations. Potential impacts to could occur in occupied north-facing slope habitat outside of aquatic and riparian areas that these species may also occupy.

Potential Impacts to Special Status Birds

As shown in EIR Tables 4.4-79 to 4.4-81, potential impacts to 20 special status birds were evaluated, including 11 modeled and 9 non-modeled species. The modeled species include the unlisted burrowing owl, the tricolored blackbird (state endangered), and the least bell's vireo (state and federal endangered). As discussed in EIR section 4.4, the modeling data is generally confined to Project Area locations below about 2000 feet in elevation. Models of high quality habitat for the golden eagle (state fully protected) and Swainson's hawk (state threatened) were also used to evaluate potential Project impacts to these species in lower elevation locations.

EIR Table 4.4-79 shows that impacts to modeled high quality habitat for the burrowing owl, grasshopper sparrow, lesser sandhill crane and tricolored blackbird would be largely concentrated in Tier 1 areas and in the Western Subarea. Almost all of the projected impacts to Le Conte's thrasher modeled high quality habitat would occur in Tier 1 of the Western Subarea. Burrowing owl and lesser sandhill crane modeled high quality habitat impacts could occur to lesser extent in the Central Subarea, and impacts could also occur to burrowing owl and grasshopper sparrow modeled high quality habitat in the Eastern Subarea. Potential impacts to modeled high quality habitat would primarily occur in Tiers 1-2 of the Eastern Subarea for the northern harrier and Tier 1 and Tier 3 of the subarea for the least bell's vireo. Impacts to mountain plover high quality modeled habitat would mainly occur in Tier 2 of the Central Subarea. Potential impacts to yellow headed blackbird modeled high quality habitat would occur in each of the three subareas and mainly in Tiers 1-2.

The models do not identify high quality habitat for the golden eagle or the Swainson's hawk within the lower elevation portions of the Project Area. The TUMSHCP EIS and the Biological Opinion for the TUMSHCP issued by the USFWS in 2013 show that, in contrast with the lower elevation portions of the Project Area, locations above 2,000 feet are known to support active golden eagle territories, nests, and high quality breeding and foraging habitat. Based on data from Tejon Ranch surveys conducted for the TUMSHCP, the USFWS concluded that, due to abundant prey, breeding pairs of golden eagles in higher elevations along the southern border of the Project Area likely maintain smaller than average territories (i.e., about 5,000 to 8,000 acres), which could result in greater than typical species densities in these locations (USFWS 2013d). To provide a conservative assessment, the EIR assumes that all Project Area land located above 2,000 feet in elevation is high quality golden eagle habitat, and that disturbance in these areas could result in significant impacts to the species without mitigation. The Swainson's hawk was not included in the TUMSHCP.

EIR Table 4.4-79 shows that acreage impacts to modeled high quality habitat vary by species. Impacts to burrowing owl, Le Conte's thrasher, grasshopper sparrow and lesser sandhill crane modeled high quality habitat would, using the conservative assumptions summarized in EIR Table 4.4-71, range from 128 acres per year (lesser sandhill crane) to 1,003 acres per year (burrowing owl). Potential impact to modeled high quality habitat for the tricolored blackbird, least Bell's vireo, northern harrier, mountain plover and yellow-headed blackbird would range from 2.42 acres per year (yellow headed blackbird) to 42 acres per year (tricolored blackbird).

EIR Table 4.4-80 shows that, consistent with the results for most mammals, reptiles and amphibians, most of the Project Area is modeled as poor to moderate quality modeled avian habitat for many species. Impacts to poor to moderate habitat for these species, including the Swainson's hawk, golden eagle, mountain plover, northern harrier, tricolored blackbird and Le Conte's thrasher, would range from just under 4,000 acres (Le Conte's thrasher) to more than 4,800 acres (Swainson's hawk, golden eagle, mountain plover, northern harrier) and would occur in the Western Subarea, to a lesser extent in the Eastern Subarea, and mainly in Tier 1 areas because the largest amount of future disturbance is projected to occur in these portions of the Project Area. Birds that have large amounts of modeled poor to moderate quality habitat in addition to modeled high quality habitat in the Project Area include the Le Conte's thrasher, burrowing owl, grasshopper sparrow and yellow-headed blackbird. Impacts to occupied habitat may also be more likely to occur to these species in areas of modeled poor to moderate quality habitat.

EIR Table 4.4-84 analyzes the amount of total modeled high quality habitat for each modeled special status bird, and modeled poor to moderate quality habitat for each species except the least

Bells' vireo in the Project Area that could be impacted by the projected annual level of disturbance summarized in EIR Table 4.4-72 over 25 years.

EIR Table 4.4-84 indicates that, if the maximum level of annual disturbance conservatively assumed in EIR Table 4.4-71 occurred each year for 25 years, impacts in the Project Area could range from 0.3% (mountain plover) to 28.8% (Le Conte's thrasher) of total modeled high quality habitat. On an annual basis, potential impacts would range from 0.01% (mountain plover) to 1.15% (Le Conte's thrasher) of the total Project Area modeled high quality habitat. Impacts to the Le Conte's thrasher and burrowing owl could range from 1.15% to 0.45% per year, and 28.8% to 11.% over 25 years, of total Project Area high quality modeled habitat. Potential 25-year impacts to high quality modeled habitat for the least Bell's vireo, tricolored blackbird, and grasshopper sparrow could range from 3.4% to 6.6%. Potential 25-year impacts to high quality modeled habitat for the lesser sandhill crane, yellow headed blackbird, northern harrier and mountain plover could range between 0.3% to 1.1%. Impacts to poor to moderate quality modeled habitat would range from 0.02% (lesser sandhill crane) to 0.61% (grasshopper sparrow) per year and 0.5% to 15.2% over 25 years. These impacts would be significant without mitigation.

The occurrence assessment for the Fulvous whistling-duck indicates that the species is only likely to occur in Tier 2 areas within the Western and Central Subareas. About 4% (208 acres per year) of total Project Area impacts would occur in these locations, and mitigation measures that require the avoidance (unless fully permitted by state and federal resource agencies) of impacts to riparian and aquatic habitats in addition to species-related mitigation measures would reduce potential impacts to an additional extent. Project activities are unlikely to significantly affect the Fulvous whistling-duck. The occurrence assessments for the loggerhead shrike, long-eared owl, short-eared owl, western snowy plover and white-tailed kite indicate that each these species can occur in the Western Subarea and at least one additional subarea (long-eared owl, short-eared owl, western snowy plover) or the other two subareas (loggerhead shrike, white-tailed kite). All of these species could also occur in Tiers 1-4. Projected Project impacts would occur primarily in the Western Subarea and in Tiers 1-4. Potential impacts to the loggerhead shrike, long-eared owl, short-eared owl, western snowy plover and white-tailed kite could be significant without mitigation.

As discussed in EIR section 4.4, the occurrence assessments for non-modeled species are conservative and treat any historical evidence of occurrence as indicating the possibility of future occurrence in an applicable tier or subarea. Using this approach, the occurrence assessment indicates that the California condor could occur in Tiers 1-5 of the Western and Eastern Subareas based on historical records that in most instances predate the capture of the existing population in the 1970s and subsequent re-release. Condor activity for the current population is regularly monitored by the USFWS using transmitters that are positioned on individual birds. The data for periods since 2000 were recently compiled and analyzed by the USFWS in conjunction with the TUMSHCP and show that, in contrast with historical reports, condors currently do not utilize lower elevation portions of the Project Area, other than very rare occurrences at the base of the adjacent mountain ranges (Figure 4.4.-5). The TUMSHCP approved by the USFWS in 2013 found that condor movement is topographically constrained to upland areas that produce updrafts, and that although prehistoric condors possibly made use of San Joaquin Valley floor habitat, and that the contemporary condor population appears to largely avoid the Central Valley floor for foraging, probably due to the lack of thermal activity and food sources (USFWS 2013d). Consequently, condor occurrence in the lower elevation portions, particularly any significant distance from the surrounding mountains that generate updrafts used by the species for movement (see Figure 4.4-9) is highly unlikely. In contrast, condor use of Project Area and adjacent locations above 2000 feet, particularly along the southern and eastern boundaries, has been well

documented to occur, and is likely to occur to greater extent over time as the population recovers in the wild. To provide a conservative assessment, the EIR assumes that all Project Area land located above 2,000 feet in elevation is high quality condor, and that disturbance in these areas could result in significant impacts to the species without mitigation.

Similarly, the occurrence assessment for the bald eagle is conservatively based on species migration patterns, and the occasional observation of the species in the Tiers 1-5 and the three subareas over time. Bald eagles generally migrate south through the Project Area to southern locations during the winter. High quality wintering locations are characterized by trees for roosting and perennial waterbodies with food sources, including fish. Very few locations, and virtually none within the lower elevations of the Project Area meet these criteria. The limited extent of high quality bad eagle habitat in the region is indicated by the TUMSHCP analysis of the species, in which the USFWS determined that the 141,886-acre Tejon Ranch contained only 518 acres of modeled foraging habitat and 1,438 acres of modeled winter roosting habitat, all located exclusively around Castaic Lake. Castaic Lake is outside of the Project Area to the south. The modeling indicated no other locations within the ranch representing bald eagle foraging or wintering habitat, although eagles may temporarily use portions of the site during migration. Bald eagles are also not known to breed within the lower or upper elevations of the Project Area, or in the uplands to the south (USFWS 2013d). The Project Area is primarily used by bald eagles for temporary migratory purposes and does not provide high quality breeding, wintering or foraging habitat for the species.

Potential Impacts to Special Status Aquatic Species and Insects

As shown in EIR Table 4.4-81, occurrence assessments were used to analyze potential impacts to the Kern brook lamprey, vernal pool fairy shrimp, longhorn fairy shrimp and the Kern primrose sphinx moth. The Kern brook lamprey could occur in streams in the Eastern Subarea. The vernal pool fairy shrimp could occur in seasonally inundated areas in the Central and Eastern Subareas, and the longhorn fairy shrimp could occur in seasonally inundated areas in the Western and Central Subareas. All of these species occur in pooled areas that remain inundated for a sufficient time period and exhibit suitable pH and other characteristics that support their reproductive cycle. Project impacts to habitats that may contain these species would be significant. As discussed below, mitigation measures require the avoidance (unless fully permitted by state and federal resource agencies) impacts to riparian and aquatic habitats, and potential Project impacts to these species in these habitat types would be reduced to less than significant levels. However, where vernal pool fairy shrimp and longhorn fairy shrimp occur outside of aquatic or riparian habitats, impacts could be significant.

The sphinx moth is known to presently occur in only three general locations, all of which are outside of the Project Area: the Walker Basin on the eastern side of the Sierra range, the Carrizo Plain to the west of the Project Area, and the Cuyama Valley to the west of the Carrizo Plains. In 2007, the USFWS conducted a 5-year review of the species and did not identify oil and gas activity as factor affecting species survival or recovery. The review also indicated that the species has a high probability of recovery because suitable habitat exists on public land in the Carrizo Plain and Cuyama Valley areas that may support the species and pupae can diapause for several years in response to adverse conditions. In addition, the review concluded that species recovery did not conflict with "economical and land development practices within the area of known Kern primrose sphinx moth distribution" (USFWS 2013). Oil field activities were well-established in 2007 along the Temblor Range to the east of the Carrizo Plain, the closest area of known species occupation. Project Area activities are not likely to impact the known locations of, or suitable habitat for the species in the Walker Basin, Carrizo Plain, or Cuyama Valley. It is possible that

sandy washes with appropriate vegetation may exist within the Western Subarea that support the moth. Given the limited distribution of the species, impacts in these locations would be significant without mitigation.

Finding:

Without mitigation, the Project has the potential to cause substantial adverse effects, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations by the California Department of Fish and Wildlife or the United States Fish and Wildlife Service. However, these significant adverse impacts will be reduced to a level that is less than significant by implementation of mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential substantial adverse effects, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations by the California Department of Fish and Wildlife or the United States Fish and Wildlife Service. The following mitigation measures will be incorporated into the Project to reduce this impact to a less than significant level:

MM 4.4-1 A qualified biologist shall conduct a biological reconnaissance survey in potential special-status species habitat to advise the project proponent of potential project impacts, potential surveying needs, and advise on the need for focused special status surveys. Early consultation with United States Fish and Wildlife Service and California Department of Fish and Wildlife would confirm the biologist's advice and/or inform project proponents of additional recommendations. Based on the information gathered from the biological reconnaissance survey and any informal consultation with United States Fish and Wildlife Service and California Department of Fish and Wildlife, focused/protocol surveys shall be conducted by a qualified or permitted biologist (whichever is applicable) well in advance of ground disturbing activities to determine the presence/absence of sensitive species protected by state and federal Endangered Species Acts and potential project impacts to those species. The survey shall be conducted in accordance with the most current standard protocol of United States Fish and Wildlife Service and California Department of Fish and Wildlife. The purpose of focused/protocol surveys is to confirm the presence or absence of any species listed as threatened or endangered under the federal Endangered Species Act, threatened or endangered under the California Endangered Species Act, rare or endangered in the California Native Plant Protection Act, or designated as fully-protected in the California Fish and Game Code (collectively, "Protected Species"), and to confirm the presence or absence of any other species considered "sensitive" under California Environmental Quality Act ("Sensitive Species"), and to identify and implement feasible avoidance and minimization measures for such species. The surveys shall be conducted in accordance with all currently-applicable presence and absence survey and/or species protocols established by the United States Fish and Wildlife Service and the California Department of Fish and Wildlife ("Species Protocols"). In the absence of any approved protocols, the survey shall extend for a minimum of 250 feet from all areas where any ground disturbance activities

would occur, provided that permission to access has been obtained. As an alternative to individual pre-disturbance surveys for each application, and after consultation with and concurrence by the California Department of Fish and Wildlife and the United States Fish and Wildlife Service, multiple parcels or areas of oil and gas production lands (including lands which may have multiple surface or mineral ownership) may be consolidated for the purpose of more efficiently managing pre-disturbance surveys and determinations regarding the absence of protected species in areas of proposed new ground disturbance activities. A biological monitor shall be present during ground-disturbing activities in project locations that have special-status species habitat or are adjacent to potential special-status species habitat. Within 30 days before any ground-disturbing activities in special-status species habitat, a qualified biologist shall conduct a pre-disturbance survey to record existing conditions of the site, determine if conditions have changed since the reconnaissance or focused/protocol surveys were conducted, and to determine where sensitive species avoidance buffers will be established.

MM 4.4-2 No incidental take of any species listed as threatened or endangered under the federal Endangered Species Act, threatened or endangered under the California Endangered Species Act, rare or endangered in the California Native Plant Protection Act, or designated as fully-protected in the California Fish and Game Code (Protected Species) may occur unless the incidental take is authorized by applicable state and federal wildlife agencies in the form of a permit or other written authorization, an approved state or federal conservation plan, or in accordance with an approved regional plan such as the Draft Valley Floor Habitat Conservation Plan and/or Natural Community Conservation Plan.

MM 4.4-3 Protective buffers shall be used, where effective and feasible in the opinion and guidance of the qualified biologist, to avoid any unauthorized incidental take of Protected Species, and to minimize any incidental take of Sensitive Species, by separating the planned disturbance area from any locations where biological reconnaissance surveys, previously conducted focused/protocol surveys, or pre-disturbance surveys have detected the presence of Protected Species or Sensitive Species. Protective buffers shall be delineated using brightly colored stakes and/or flagging or similar materials and remain until construction activities are complete, at which time of completion the buffers must be removed. If special-status plant or animal species are found adjacent to the project during biological surveys, protective buffers shall be established around active dens and/or burrows of special-status animal species, or populations of special-status plant species to avoid unauthorized take of protected species as listed in the table below. The protective buffer distance shall be increased if required to avoid unauthorized incidental take of any Protected Species as determined by a qualified biologist. Protective buffer distances and other avoidance measures that may be implemented to avoid impacts to Protected Species or Sensitive Species must be consistent with the United States Fish and Wildlife Service and/or the California Department of Fish and Wildlife, and shall be implemented and overseen by a qualified biologist.

EXHIBIT A

Table: Disturbance Buffers for Sensitive Resources

Sensitive Resource	Buffer Zone from Disturbance (feet)
Potential San Joaquin kit fox den	50
Known San Joaquin kit fox den	100
Natal San Joaquin kit fox den	Contact California Department of Fish & Wildlife, United States Fish & Wildlife Service
Atypical San Joaquin kit fox den	50
Rodent burrows	50
Listed bird species active nests	0.5 mile
Burrowing owl burrow (breeding and non-breeding season)	Pursuant to California Department of Fish & Wildlife guidelines (see Table 4.4-85)
San Joaquin coachwhip, silvery legless lizard, coast horned lizard	30
American badger: Non-maternity dens Maternity dens	 50 200
Special-status plants	50

MM 4.4-4 Occupied burrowing owl burrows shall not be disturbed during the species nesting season (February 1 through August 31). The following distances shall be maintained between all disturbance areas and burrowing owl nesting sites (Table 4.4-85).

Table 4.4-85: Setback Distances for Burrowing Owl Nesting Sites by Level of Proposed Project Impacts

Location		
Nesting sites	Nesting sites	Nesting sites
Time of Year		
April 1–Aug 15	Aug 16–Oct 15	Oct 16–Mar 31

Table 4.4-85: Setback Distances for Burrowing Owl Nesting Sites by Level of Proposed Project Impacts

Project Impact Level		
Low		
656 feet (200 meters)	656 feet (200 meters)	164 feet (50 meters)
Medium		
1,640 feet (500 meters)	656 feet (200 meters)	328 feet (100 meters)
High		
1,640 feet (500 meters)	1,640 feet (500 meters)	1,640 feet (500 meters)

Burrowing owls present in proposed disturbance areas or within 500 feet or as specified under an approved Habitat Conservation Plan (as identified during pre-disturbance surveys) outside of the breeding season (between September 1 and January 31) may be moved away from the disturbance area using passive relocation techniques approved by the California Department of Fish and Wildlife. Passive relocation techniques in the California Department of Fish and Wildlife Staff Report on Burrowing Owl Mitigation Guidelines (California Department of Fish and Game 2012) include installing one-way doors in burrow entrances for 48 hours, to ensure the owl(s) have left the burrow, daily monitoring during the passive relocation period, and collapsing existing burrows to prevent reoccupation. A minimum of one or more weeks will be required to relocate the owl(s) and allow for acclimatization to alternate off-site burrows. Prior to burrow exclusion or eviction, a burrowing owl management plan shall be prepared and approved by the California Department of Fish and Wildlife. Destruction of burrows shall occur only pursuant to a management plan for the species approved by the California Department of Fish and Wildlife; burrow excavation shall be conducted by hand whenever possible.

As an alternative to passive relocation, occupied burrows identified off-site within 500 feet of construction activities may be buffered with hay bales, fencing (e.g. sheltering in place), or as directed by the qualified biologist and the California Department of Fish and Wildlife, to avoid disturbance of burrows.

MM 4.4-5 The pre-disturbance surveys shall determine whether active bat maternity roosts are located in or within 250 feet of any disturbance area. All active bat maternity roosts shall be avoided during breeding periods, including postponing disturbance activities if required, and to the maximum extent feasible at other times. If an active bat maternity roost location cannot feasibly be avoided by disturbance, the United States Fish and Wildlife Service and California Department of Fish and Wildlife must be contacted to identify appropriate impact minimization measures prior to initiating any disturbance that would affect the roost.

MM 4.4-6 Any potential San Joaquin kit fox dens (as defined in United States Fish and Wildlife Service 2011) detected during reconnaissance or focused/protocol

surveys shall be reevaluated for species activity no more than 30 days prior to the commencement of ground disturbance. Potential kit fox dens shall be marked and a 50-foot avoidance buffer shall be delineated using brightly colored stakes and flagging or similar materials to prevent inadvertent damage to the potential den. If a potential den cannot feasibly be avoided, the den may be hand excavated in accordance with the United States Fish and Wildlife Service *Standardized Recommendations for Protection of the Endangered San Joaquin Kit Fox Prior to or During Ground Disturbance* (United States Fish and Wildlife Service 2011). If species activity is detected, the location shall be identified as a "known" kit fox den in accordance with the U.S. Fish and Wildlife Service species guidelines (United States Fish and Wildlife Service 2011). A minimum 100-foot buffer from any disturbance area shall be maintained for known dens and a minimum 500-foot buffer from any disturbance area shall be maintained for natal dens. No excavation of a known or natal den shall occur without prior authorization from the United States Fish and Wildlife Service and the California Department of Fish and Wildlife. For activities occurring on land covered under an approved federal and/or State incidental take authorization, the requirements set forth in those documents shall be implemented. Other standard measures to protect San Joaquin kit fox, including capping pipes, covering trenches, adding exit ramps to excavated areas, shall be implemented in accordance with MM 4.4-15.

MM 4.4-7 Occupied American badger dens detected during pre-disturbance surveys shall be flagged and ground-disturbing activities avoided within 50 feet of the den. Maternity dens shall be avoided and a minimum 200-foot buffer from disturbance shall be maintained during pup-rearing season (February 15 through July 1). Maternity dens must be avoided to the maximum extent feasible. If a maternity den cannot feasibly be avoided, the California Department of Fish and Wildlife must be contacted to identify appropriate impact minimization measures prior to initiating any disturbance that would affect the den, including potential passive relocation by excavation before or after the rearing season.

MM 4.4-8 Pre-disturbance surveys for all sites located above 2,000 feet in elevation, or within 200 feet down gradient from the 2,000-foot elevation contour line, shall specifically survey for any golden eagle nests located within 2 miles of the site. If golden eagle nests are detected by the surveys, the qualified biologist shall conduct a nest-specific viewshed analysis. No disturbance may occur within 0.25 mile, or within 0.5 mile of the viewshed of an active golden eagle nest, unless otherwise authorized by State and federal wildlife agencies. The United States Fish and Wildlife Service and California Department of Fish and Wildlife must be notified prior to the commencement of any disturbance activities within 1 mile of an active golden eagle nest to avoid golden eagle take.

MM 4.4-9 All sites located above 2,000 feet in elevation, or within 200 feet down gradient from the 2,000-foot elevation contour line, shall implement the following measures to avoid and minimize potential adverse impacts to the California condor:

a. The site shall, at all times, be maintained to avoid any trash, debris, food sources and microtrash, such as bottle caps, that could be ingested by or

attract California condor. Trash shall be disposed in animal-proof containers as required in BIO 4.4-19.

b. The Worker Environmental Awareness Program described in BIO MM 4.4-18 shall include information about microtrash and potential effects to California condor, and shall prohibit the disposal of trash (and microtrash) on the site of oil and gas activities.

c. If a condor is observed in a proposed construction site, all disturbance activities must immediately cease within 500 feet of the condor until the animal has moved from the site. If condor occurrence persists, the United States Fish and Wildlife Service and the California Department of Fish and Wildlife must be contacted to identify appropriate avoidance measures prior to initiating or resuming any disturbance activity.

d. All condor observations shall be reported within 24 hours to the United States Fish and Wildlife Service and the California Department of Fish and Wildlife.

e. All tanks, liquid storage facilities, and any open area containing water or other liquid materials, including drilling sumps, must be covered or otherwise shielded in a manner that prevents condor intrusion and potential entrapment.

f. No overhead transmission lines may be used at the site without the prior approval of the United States Fish and Wildlife Service and the California Department of Fish and Wildlife.

MM 4.4-10 Pre-disturbance surveys for active bird nests must be conducted no more than 10 days prior to the commencement of disturbance. Surveys shall follow United States Fish and Wildlife and California Department of Fish and Wildlife guidance and/or protocols, as applicable. If no active nests or nesting birds are identified, then Project construction activities may proceed and no further mitigation measures for nesting birds are required. If active nest(s) are identified, the active nest(s) should be continuously surveyed for the first 24 hours after detection, to establish a behavioral baseline prior to any construction-related activities. Once construction commences, all nests shall be continuously monitored to detect any behavioral changes as a result of the Project (i.e., nest avoidance or abandonment). If behavioral changes are observed, the work causing that change should cease and the California Department of Fish and Wildlife and the United States Fish and Wildlife should be consulted for additional avoidance and minimization measures. If continuous monitoring of identified nests by a qualified wildlife biologist is not feasible, a minimum no-disturbance buffer of 250 feet will be established around active nests and a 500-foot no-disturbance buffer around the nests of raptors until the breeding season has ended, or until a qualified biologist has determined that the birds have fledged and are no longer reliant upon the nest or parental care for survival, and any adult birds are no longer occupying the nest. Variance from these no-disturbance buffers may be implemented a qualified biologist concludes that work within the buffer area would not cause nest avoidance or abandonment (e.g., when the disturbance area would be concealed from a nest site by

topography). The California Department of Fish and Wildlife and the United States Fish and Wildlife must be notified in advance of implementing of a variance in the no-disturbance buffer.

MM 4.4-11 The following measures will be implemented to avoid take of blunt-nosed leopard lizard and to ensure protection of these animals during Project activities:

a. Project activities will avoid all potential burrows that may be occupied by blunt-nosed leopard lizards. Suitable burrows within and adjacent to potential habitat for the species should be avoided by a minimum distance of 50-feet in all areas where ground-disturbing Project activities will occur.

b. No more than one year prior to ground disturbing activities, focused surveys following current California Department of Fish and Wildlife and United States Fish and Wildlife protocols for detection of this species or other methods approved by both agencies shall be conducted in all potential blunt-nosed leopard lizard habitat within the work site and a 250-foot buffer area. If no individual blunt-nosed leopard lizards are observed during focused surveys, and surveys are current (e.g., completed in the same calendar year), then Project activities may proceed.

c. If blunt-nosed leopard lizards are detected during focused surveys, a blunt-nosed leopard lizard avoidance plan shall be prepared for the Project that will result in avoidance of incidental take of this species unless take is separately authorized under a Natural Communities Conservation Plan and appropriate federal authorization is obtained. At a minimum, the blunt-nosed leopard lizard avoidance plan shall be provided to the California Department of Fish and Wildlife and the County, and shall contain the following elements:

1. A Worker Environmental Awareness Program shall be implemented for all construction personnel before construction begins (see MM 4.4-18).

2. During periods that are optimal for blunt-nosed leopard lizard activity (early spring through late fall), a qualified biologist will be present during all ground disturbing activities. The qualified biologist will check the Project site(s) and access route(s) daily during the blunt-nosed leopard lizard active season to determine presence or absence of lizards in or near the work areas. Monitoring by a qualified biologist is not required during periods of inactivity (the winter season).

3. All open trenches or excavations shall be covered at the end of each workday or protected with the use of exclusion fencing to prevent wildlife entrapment. If an excavation is too large to cover, escape ramps shall be installed at an incline ratio of no greater than 2:1. All trenches and pipes shall be inspected for the presence of wildlife each day prior to the commencement of work. If blunt-nosed leopard lizards are observed at the work site during construction, construction shall cease within a 250-foot radius and the United States Fish and Wildlife Service and the California Department of Fish and Wildlife shall be consulted to determine what additional measures would be necessary to prevent take of this species.

4. Offsite locations where blunt-nosed leopard lizards have been observed or are likely to occur shall be clearly marked to prevent workers from driving off the road and to prevent inadvertent destruction of burrows. Barriers, such as exclusionary fencing may be installed. All construction equipment and construction personnel vehicles will be checked prior to moving to ensure no blunt-nosed leopard lizard are under equipment/vehicles.

5. A speed limit of 10 miles per hour shall be posted and observed within 0.25 miles of any reported blunt-nosed leopard lizard observation.

6. Construction activities shall avoid burrows that may be used by blunt-nosed leopard lizards. Any location of proposed construction activity with potential to collapse or block burrows (i.e., stockpile storage, parking areas, staging areas, trenches) will be identified prior to construction in the blunt-nosed leopard lizard avoidance plan and approved by the qualified biologist. The qualified biologist may allow certain activities in burrow areas if the combination of soil hardness and activity impact is not expected to collapse burrows and no blunt-nosed leopard lizards have been found during pre-Project surveys in the impact area.

7. All individual blunt-nosed leopard lizards observed above-ground will be avoided. Any individual blunt-nosed leopard lizard that may enter the Project site(s) would be allowed to leave unobstructed, and on its own accord. If a blunt-nosed leopard lizard is detected during biological monitoring or observed at any other point, the California Department of Fish and Wildlife and the United States Fish and Wildlife Service shall be notified to determine what additional measures would be necessary to prevent take of the species.

MM 4.4-12 The Applicant shall comply with the following:

a. Plant surveys for Protected Species and Sensitive Species must be completed by a qualified biologist during the appropriate blooming periods for species identification and detection. Plant surveys shall be conducted in accordance with all applicable protocols established by the United States Fish and Wildlife Service and the California Department of Fish and Wildlife for particular plant species ("Plant Survey Protocol"), and shall extend 50 feet from areas where any new disturbance would occur unless a greater survey distance is specified in the Plant Survey Protocol. All detected plant populations of Protected Species and Sensitive Species shall be identified in the field during the surveys with temporary flags or other appropriate materials to avoid and minimize impacts to the plant populations from any disturbance activities.

b. No incidental take or relocation of any plant listed under the federal Endangered Species Act, the California Endangered Species Act, or the California Native Plant Protection Act may occur unless the incidental take is authorized by the United States Fish and Wildlife Service and/or the California Department of Fish and Wildlife in a permit or other

authorization, or in an approved Habitat Conservation Plan or Natural Communities Conservation Plan. If focused plan surveys detect the presence of any listed plant, the plant populations shall be buffered from disturbance activities by implementing applicable impact avoidance protocols established by the United States Fish and Wildlife Service and/or the California Department of Fish and Wildlife unless incidental take authority is obtained. Projects covered under incidental take authority shall conduct activities in accordance with the take authorization. The California Department of Fish and Wildlife may be contacted to determine the appropriate buffer required to prevent incidental take of a listed plant if avoidance protocols have not been established for the species. The qualified biologist shall confirm that all applicable listed plant buffers have been implemented prior to the commencement of any disturbance activity.

c. If any non-listed sensitive plant species are identified that may be impacted by new ground disturbing activities, populations must be avoided by a 50-foot buffer.

MM 4.4-14 A Worker Environmental Awareness Program shall be developed and implemented for all personnel that could access the site prior to commencing any disturbance activities. The program shall consist of an on-site or center presentation that will describe the locations and types of sensitive plant, wildlife, and sensitive natural communities (collectively, "Biological Resources") on and near the site, an overview of the laws and regulations governing the protection of Biological Resources, the reasons for protecting the Biological Resources, the specific protection and avoidance measures that are applicable to the site, and the identity of designated points of contact should questions or issues arise, including the qualified biologist. The program shall provide training to recognize, avoid and report to applicable qualified biologists any Biological Resources on the site.

a. The Worker Environmental Awareness Program shall emphasize the need to avoid contact with onsite wildlife, and avoid entry into areas where Biological Resources have been identified based on pre-disturbance field surveys and to implement the buffer avoidance or other protection measures established by the United States Fish and Wildlife Service shall be identified California Department of Fish and Wildlife or required by the Biological Resource mitigation measures. The training shall emphasize the importance of not feeding or domesticating wildlife and the need to avoid any trash, microtrash, or potential food disposal onsite except in animal-proof containers emptied daily to avoid attracting, or causing adverse impacts to special status wildlife.

b. All onsite personnel must sign a statement verifying that they have completed the Worker Environmental Awareness Program, and that they understand and agree to implement the biological requirements for the worksite. If signed employee statements are not available, documentation may be provided by Worker Environmental Awareness Program training records, which shall be kept by the Applicant for a minimum of 5 years. Each Applicant shall maintain a list of all persons who have completed the training program, and shall provide the list to the County or to state and federal wildlife agency representatives upon request.

EXHIBIT A

MM 4.4-15 The following additional measures shall be implemented to avoid and minimize potential significant adverse impacts to Protected and Sensitive Species:

a. All vehicles shall observe a 20-mile-per-hour speed limit in all areas of disturbance and on unpaved roads unless otherwise posted. Off-road traffic outside of designated access routes is prohibited. Speed limit signs shall be posted in visible locations at the point of site entry and at regular intervals on all unpaved access roads.

b. All disturbance activities, except emergency situations or drilling that may require continuous operations, shall only occur during daylight hours. Night time disturbance activity for drilling purposes shall use directed lighting, shielding methods, or reduced lumen intensity to avoid unnecessary visual disturbance to wildlife and to comply with applicable lighting mitigation measures.

c. All food-related trash items and all forms of microtrash, such as wrappers, cans, bottles, bottle tops, and food scraps shall be disposed of in closed, animal proof containers and removed daily from the site.

d. Excavations, spoils piles, access roadways, and parking and staging areas shall subject to dust control as set forth in the dust control mitigation measures.

e. The use of herbicides for vegetation control shall be restricted to those approved by the United States Fish and Wildlife Service and the California Department of Fish and Wildlife. No rodenticides shall be used on any site unless approved by the United States Fish and Wildlife Service, and the California Department of Fish and Wildlife, and shall observe label and other restrictions mandated by the United States Environmental Protection Agency, California Department of Food and Agriculture, and state and federal laws and regulations. For split estates, no herbicides for vegetation control may occur in Tier 2 areas without surface owner approval.

f. No plants or wildlife shall be collected, taken, or removed from the site or any adjacent locations except as necessary for Project-related vegetation removal or wildlife relocation by a qualified biologist and subject to all applicable permits and authorizations.

g. All open trenches or excavations shall be covered at the end of each workday to prevent wildlife entrapment. If an excavation is too large to cover, escape ramps shall be installed at an incline ratio of no greater than 2:1. All trenches and pipes shall be inspected for the presence of wildlife each day prior to the commencement of work.

h. To enable San Joaquin kit foxes and other wildlife to pass through the Project site, any perimeter fencing shall include a 4- to 8-inch opening between the fence mesh and the ground or the fence shall be raised 4 inches above the ground except blunt-nosed leopard lizard exclusion fencing. The bottom of the fence fabric shall be knuckled (wrapped back to form a smooth edge) to protect wildlife.

i. All vertical tubes used in Project construction and chain link fencing poles, shall be temporarily or permanently capped to avoid the entrapment and death of special-status wildlife and birds. All pipes 1.5 inches or greater in diameter stored overnight on a project location must have end caps or other physical barriers that prevent wildlife from entering the pipe.

j. All dead or injured special status wildlife shall be left in place and reported to the United States Fish and Wildlife Service and the California Department of Fish and Wildlife within 48 hours of discovery for rescue or salvage. Discovery of state or federal listed species that are injured or dead shall also be managed consistent with regulatory requirements, including being reported immediately via telephone and within 24 hours in writing, and with a copy to Kern County Planning and Community Development.

k. All drilling installations and operations will comply at all times with the applicable federal, State, county, and local law ordinances and regulations.

l. All activity shall use previously disturbed areas to the maximum extent feasible to minimize the amount of new disturbance.

m. All concrete and asphalt debris should be removed from the site for recycling or proper disposal.

n. No vehicles or construction equipment shall be parked within a wetland or waterbody/dry wash.

o. Tracked vehicles and other construction equipment must be washed or maintained to be weed-free prior to entering and working within areas of new disturbance.

p. All washing of trucks, paint, equipment, or similar activities should occur in areas where runoff is fully contained for collection and offsite disposal. Wash water may not be discharged from the site and shall be located at least 100 feet from any water body, or sensitive Biological Resources.

q. Locate all extra work areas (such as staging areas and additional spoil storage areas) at least 50 feet away from wetland boundaries or waterbody, except where the adjacent upland consists of cultivated or rotated cropland or other disturbed land.

r. All areas that must be avoided as result of the pre-disturbance surveys, and areas where new disturbance will occur, shall be clearly delineated by fencing or staking and flagging and/or rope or cord.

s. No firearms shall be allowed on any site.

t. No pets shall be allowed on any site.

u. No smoking may occur except in designated areas.

v. If ground disturbance is intended to be temporary and does not occur on cultivated and crop lands, perform topsoil segregation during construction activities to preserve the seed bank for restoration efforts. Store the segregated topsoil separate from the subsoil and restore segregated topsoil to its original location.

MM 4.4-16 Ground disturbance shall be mitigated at a 1.0 to 1.0 ratio (one-acre of new disturbance shall require one-acre of mitigation) except in Tier 1 areas that contain existing disturbance of 70% or greater which shall be mitigated at a 1.0 to 0.5 ratio (one-acre of new disturbance shall require one-half acre of mitigation), for the land included in the Site Plan. This compensatory mitigation requirement does not apply to construction on ground for which compensatory mitigation has already been provided, or on ground that has been previously disturbed (e.g., cleared of vegetation for other oil and gas extraction uses, existing unpaved roads, and existing unvegetated well pads). Ground disturbance activities that are authorized by permits or other written authorizations approved by the United States Fish and Wildlife Service and the California Department of Fish and Wildlife, which include avoidance and compensatory mitigation acreage requirements, may be used to satisfy this County compensatory mitigation ratio. Compensatory mitigation shall be required for the actual acreage of ground disturbance documented during the site plan review and completion process. New disturbance mitigation may be satisfied by one or a combination of the following measures:

a. The recordation of a conservation easement or similar permanent, long-term conservation management agreement in a form acceptable to the County for land within the Project Area on land that has mitigation value. The easement lands may be owned by an Applicant or a third party under contract with an Applicant. Larger land areas may be placed under a conservation easement or similar agreement, and an Applicant may "draw down" the conserved land as needed to satisfy the acreage mitigation requirements for multiple site plan review conformity permits or other authorizations from the County for oil and gas activities.

b. Acquisition of land preservation credits from a mitigation bank located within the Project Area which is owned by the County, on other lands approved by the County, or on lands approved for mitigation or conservation purposes by the United States Fish and Wildlife Service or the California Department of Fish and Wildlife.

c. Removal of legacy oil and gas equipment, inclusive of compliance with applicable legal requirements (e.g., well plugging and abandonment requirements under state or federal regulations), restoration of the surface grade to be consistent with surrounding lands, complete a reseeding effort using native species, and notification of the site owner (if not the Applicant) of the completion of the removal and grading restoration work.

d. Enhancement or restoration of existing habitat on lands already subject to a conservation easement or similar agreement, or which become subject to a conservation easement or similar agreement subsequent to the certification of this Environmental Impact Report, provided that such activities are covered

in a permit or authorization, conservation plan, Habitat Conservation Plan, or Natural Community Conservation Plan, approved by the United States Fish and Wildlife Service or the California Department of Fish and Wildlife.

e. Payment of a biological resources mitigation fee for the acquisition and management of mitigation lands, legacy equipment removal, and/or land enhancement already subject to conservation easements or a similar agreements under the terms of any biological resource mitigation program that is adopted by Kern County and approved by the United States Fish and Wildlife Service or the California Department of Fish and Wildlife. The County shall coordinate with the United States Fish and Wildlife Service or the California Department of Fish and Wildlife to identify priority conservation areas and potential conservation partners and funding sources to increase the efficiency and effectiveness of mitigation fee expenditures.

Significant Effect:

Without mitigation, the Project has the potential to have a substantial adverse effect on any riparian or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Wildlife or the United States Fish and Wildlife Service (Impact 4.4-2).

Description of Specific Impact:

The location of sensitive natural communities in the Project Area is shown in EIR Figure 4.4-4. As discussed in EIR Section 4.4.2, Environmental Setting, the sensitive natural communities identified within the Project Area include wetlands, water and other riparian habitat that are subject to state or federal permit requirements prior to physical disturbance. EIR Tables 4.4-86 and 4.4-87 indicate that the largest extent of potential impacts could occur to the great valley mesquite scrub, desert scrub, desert wash, great valley cottonwood riparian forest, and native valley foothill riparian sensitive natural communities. The great valley mesquite scrub community is primarily located in Tier 1 of the Central Subarea, the location where most of the future impacts would occur in that location. Potential impacts to great valley mesquite scrub could be over 3% of the total acreage in the Project Area per year, and 83.5% of the total acreage in the Project Area over 25 years. The desert scrub community is primarily located in the Western Subarea and occurs in Tier 1 locations where most of the future Project Area disturbance is projected to occur. Potential impacts to desert scrub could be about 1.1% of the total acreage in the Project Area per year, and 28.6% of the total acreage in the Project Area over 25 years. The desert wash community primarily occurs in Tier 1 of the Western Subarea, and impacts to total acreage in the Project Area could be 0.84% per year and 21.03% over 25 years. The great valley cottonwood riparian forest community primarily occurs in the Eastern Subarea, including Tier 1 locations, and impacts to total acreage in the Project Area could be 0.31% per year and 7.9% over 25 years. Potential impacts to the native valley foothill riparian community would primarily occur in Tier 1 areas of the Eastern Subarea and, to a lesser extent, the Western Subarea. Potential impacts to the native valley foothill riparian community could be about 0.21% of the total acreage in the Project Area per year, and 5.2% of the total acreage in the Project Area over 25 years.

Potential impacts to the valley saltbush scrub, mixed chaparral, coastal and valley freshwater marsh, vernal pool, stabilized interior dunes, valley oak woodland, valley needlegrass grassland, montane hardwood, valley sacaton grassland, valley sink scrub and alkali seep natural communities would range from 0.01% of the total acreage in the Project Area (valley sink scrub

and alkali seep) to 0.7% (valley saltbush scrub and mixed chaparral) per year. Over 25 years, potential impacts to the total acreage of these communities in the Project Area could range from 0.29% (alkali seep) to 1.7% (valley saltbush scrub). Impacts to sensitive natural communities and riparian habitats in the Project Area would be significant without mitigation.

Finding:

Without mitigation, the Project has the potential to have a substantial adverse effect on any riparian or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Wildlife or the United States Fish and Wildlife Service. These impacts will be reduced to a level that is less than significant with implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential substantial adverse effect on any riparian or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Wildlife or the United States Fish and Wildlife Service. The following mitigation measures, along with **MM 4.4-1** through **MM 4.4-16**, will be incorporated into the Project to reduce this impact to a less than significant level:

MM 4.4-17 Pre-disturbance surveys shall be conducted by a qualified biologist during the appropriate periods for detecting Sensitive Natural Communities that could occur within the Project Area. The surveys shall be completed consistent with applicable protocols approved by the United States Fish and Wildlife Service and/or the California Department of Fish and Game, including the Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities (California Department of Fish and Wildlife 2009). The qualified person shall map and identify all sensitive natural communities, including riparian communities that occur in or within 100 feet of any new disturbance area. The site plan for the proposed activity shall identify waters, wetlands, resources subject to section 1600 of the CFGC and other riparian habitats that occur in and within 100 feet of the disturbance area.

MM 4.4-18 No land disturbance activity in any Sensitive Natural Community that requires a state or federal permit, including state or federally regulated wetlands and waters, shall occur unless the activity is specifically authorized by the issuance of permits or approvals as required by state and federal law. This provision is not intended to restrict survey activities or restrict permit approvals for such disturbance activities. However, no new wells, tanks, sumps or ponds shall be constructed within 50 feet of federal or state waters or wetlands.

Significant Effect:

Without mitigation, the Project has the potential to have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal poos, costal, etc.) through direct removal, filing, hydrological interruption or other means (Impact 4.4-3).

Description of Specific Impact:

As discussed in EIR Section 4.4.2, Environmental Setting, the occurrence of wetlands and waters within the Project Area was estimated by using spatial data from the NWI and the NHD. EIR Tables 4.4-88 and 4.4-89 summarize the acreage of potentially jurisdictional wetlands and linear feet of waters in the Project Area estimated from the available databases. As described in the EIR's discussion of Impact 4.4-2, federally jurisdictional wetlands, and other waters and riparian habitats that are subject to state or federal jurisdiction, are included in the analysis of the sensitive natural communities within the Project Area. Any oil and gas activity that could be authorized under this Project that occurred in wetlands or other water would have a significant impact.

Finding:

Without mitigation, the Project has the potential to have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal poos, costal, etc.) through direct removal, filing, hydrological interruption or other means. These impacts will be reduced to a level that is less than significant with implementation of the mitigation measures described in section II(4) of these findings related to Biological Resources. Other mitigation measures identified in the EIR would further reduce potential state or federally jurisdictional wetland and waters, including the dust control mitigation measures described in section II(3) of these findings related to Air Quality, the spill and hazardous material avoidance and containment mitigation measures described in section II(8) of these findings related to Hazards and Hazardous Materials, and the surface and subsurface water quality and hydrology mitigation measures described in section II(9) of these findings related to Hydrology and Water Quality.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal poos, costal, etc.) through direct removal, filing, hydrological interruption or other means. The mitigation measures described in section II(4) of these findings related to Biological Resources, will be incorporated into the Project to reduce this impact to a less than significant level. These impacts will be further reduced through implementation of the dust control mitigation measures described in section II(3) of these findings related to Air Quality, the spill and hazardous material avoidance and containment mitigation measures described in section II(8) of these findings related to Hazards and Hazardous Materials, and the surface and subsurface water quality and hydrology mitigation measures described in section II(9) of these findings related to Hydrology and Water Quality, which will also be incorporated into the Project.

Significant Effect:

Without mitigation, the Project has the potential to interfere substantially with the movement of any native resident or migratory fish or wildlife species, or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites (Impact 4.4-4).

Description of Specific Impact:

As discussed in EIR Section 4.4.2, Environmental Setting, and shown in EIR Figure 4.4-11, the generalized patterns of wildlife movement in and through the Project Area have been characterized in certain studies. The length and width of these corridors have not been precisely determined and most correspond with major geographic features that are likely to facilitate

species movement, including the Kern River and Poso Creek channels, and along the base of the mountain ranges that border the Project Area to the east, south and west.

Oil and gas exploration and production activities are more porous and maintain wildlife movement to a greater extent than urban development, and, depending on species requirements, agricultural uses that modify surface vegetation, soils and irrigation. A recent study conducted in 2008-2010 for the BLM found that species assemblages in saltbush scrub habitat remain relatively intact in oilfield locations with up to 70% disturbance in Kern County. This result indicates that even moderately developed oilfields as documented in the 2011 survey would retain the capacity for wildlife movement. However, oilfield development with more than 70% disturbance could reduce species movement, and potential impacts to wildlife movement in higher density locations would be significantly impacted by Project activities without mitigation.

Finding:

Without mitigation, the Project has the potential to interfere substantially with the movement of any native resident or migratory fish or wildlife species, or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites. These impacts will be reduced to a level that is less than significant with implementation of the mitigation measures described in section II(4) of these findings related to Biological Resources. Other mitigation measures identified in the EIR would further reduce potential state or federally jurisdictional wetland and waters, including the dust control mitigation measures described in section II(3) of these findings related to Air Quality, the spill and hazardous material avoidance and containment mitigation measures described in section II(8) of these findings related to Hazards and Hazardous Materials, and the surface and subsurface water quality and hydrology mitigation measures described in section II(9) of these findings related to Hydrology and Water Quality.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to interfere substantially with the movement of any native resident or migratory fish or wildlife species, or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites. The mitigation measures described in section II(4) of these findings related to Biological Resources, will be incorporated into the Project to reduce this impact to a less than significant level. These impacts will be further reduced through implementation of the dust control mitigation measures described in section II(3) of these findings related to Air Quality, the spill and hazardous material avoidance and containment mitigation measures described in section II(8) of these findings related to Hazards and Hazardous Materials, and the surface and subsurface water quality and hydrology mitigation measures described in section II(9) of these findings related to Hydrology and Water Quality, which will also be incorporated into the Project.

Significant Effect:

Without mitigation, the Project has the potential to conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance (Impact 4.4-5).

Description of Specific Impact:

The Kern County General Plan and other ordinances and the Metropolitan Bakersfield General Plan include policies that protect several biological resources as summarized in Section 4.4.3,

Regulatory Setting, including special status species, sensitive natural communities, wetlands, waters and riparian habitats and the Kern River corridor. As discussed in Impacts 4.4-1 through 4.4-4, potential impacts to these resources would be mitigated to less than significant levels.

Kern County has adopted oak tree conservation policies and implementation measures in Section 1.10.10 of the Kern County General Plan Land Use, Open Space and Conservation Element. These policies and measures generally require avoidance of oak tree impacts, and the implementation of other protection measures for sites that have more than 10% oak tree cover (oak woodlands) and sites that have less than 10% oak tree cover. Impacts to oak trees are not anticipated to occur from oil and gas exploration and development activity because oak trees can generally be avoided by modifying the disturbance envelope. As shown in Table 4.4-86, the valley oak woodland community occurs within the Project Area and could be subject to 3 acres of impacts per year, mainly in Tier 2 locations in the Eastern Subarea (about 2 acres per year) and the Western Subarea (about 1 acre per year).

Finding:

Without mitigation, the Project has the potential to conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance. These impacts will be reduced to a level that is less than significant with implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance. The following mitigation measure will be incorporated into the Project to reduce this impact to a less than significant level:

MM 4.4-19 In the event that new disturbance would occur at a site within an oak woodland area as defined in Section 1.10.10 of the Kern County General Plan Land Use, Open Space and Conservation Element (10% or greater oak tree cover), the Applicant shall comply with the minimum 30% canopy retention standard in Section 1.10.10 KK (a). Impacts to oak trees in other locations, and in locations that meet the criteria for an oak woodland area, shall be avoided to the maximum extent practicable, including modification of the disturbance area, if feasible, to avoid existing oak trees within a site.

Significant Effect:

Without mitigation, the Project has the potential to conflict with the provisions of an adopted habitat conservation plan, natural community conservation plan, or other approved local, regional, or state habitat conservation plan (Impact 4.4-6).

Description of Specific Impact:

As discussed in EIR Section 4.4.3, Regulatory Setting, the following HCPs have been adopted within, include portions of or are located in areas adjacent to the Project Area: Freeport-McMoRan Oil & Gas HCP; Aera Coles Levee HCP (previously Arco Western Energy) HCP; Chevron Pipeline HCP; California Aqueduct - San Joaquin Field Division HCP; Kern County Waste Facilities HCP; Pacific Gas and Electric (PG&E) San Joaquin Valley Operations and

Maintenance Program HCP; TUMSHCP; Metropolitan Bakersfield HCP; CRC Non-Unit HCP. Moreover, three HCPs have been proposed but have not yet been approved for the Project Area: VFHCP; Chevron North American Exploration and Production LHCP; California Resources Corporation EHHCP. The proposed Zoning Ordinance amendment would not conflict with any adopted HCP in or adjacent to the Project Area and would also be consistent with the proposed Chevron LHCP and California Resources Corporation EHHCP. The VFHCP would cover activities from multiple sectors, including most of the oil and gas production activities included in the Project, within the Valley Floor portion of the Project Area. Kern County is the lead Applicant for the VFHCP. Kern County and other stakeholders are also considering the potential for completing a Natural Communities Conservation Plan (NCCP) under California law, alongside a federal HCP. There is no pending draft HCP or proposed NCCP, and thus consistency with these plans cannot be evaluated in detail at this time. It is anticipated, however, that a VFHCP/NCCP would be consistent with, or impose more stringent requirements than, the mitigation measures, procedural and substantive requirements included in this Project and EIR. However, the EIR conservatively determines that potential impacts related to conflicts with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan could be significant.

Finding:

Without mitigation, the Project has the potential to conflict with the provisions of an adopted habitat conservation plan, natural community conservation plan, or other approved local, regional, or state habitat conservation plan. This impact will be reduced to a level that is less than significant with implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to conflict with the provisions of an adopted habitat conservation plan, natural community conservation plan, or other approved local, regional, or state habitat conservation plan. The following mitigation measure will be incorporated into the Project to reduce this impact to a less than significant level:

MM 4.4-20 Applicants shall fund through the Site Conformity Review administrative fee, preparation by Kern County of, an annual report describing the Project's ground disturbance acreage, and the acreage of compensatory mitigation lands, in each sub-area. For Covered Activities within areas included in proposed HCPs, the requirements of MM 4.4-1 – 4.4-19 may be superseded by specific requirements imposed by USFWS as part of approval of a federal incidental take permit (e.g., under Section 10 or Section 7 of the Endangered Species Act), or by CDFW as part of approval of a state incidental take permit (e.g., under the Fish and Game Code), provided that USFWS (in the case of a federal incidental take permit) or CDFW (in the case of a state incidental take permit) concludes in writing that such requirements provide equivalent or greater protection than MM 4.4-1 – 4.4-19 (or any subset thereof).

C. Environmental Effects of the Project That Cannot Be Mitigated to a Level Less Than Significant.

None.

D. Cumulative Environmental Effects of the Proposed Project That Will Have a Less Than Significant Impact on the Environment.

None.

E. Cumulative Environmental Effects of the Proposed Project That Will Have a Significant Impact on the Environment.

Significant Effect:

The Project will make a considerable contribution to significant cumulative biological resources impacts (Impact 4.4-7).

Description of Specific Impact:

Future oil and gas exploration and production activities related to the proposed Zoning Ordinance amendment could contribute to a significant cumulative impact on Project Area biological resources because future use and development of federal, state and incorporated urban lands are not within the County's jurisdiction or control. Future land uses and development could affect biological resources in each of these jurisdictions and would be undertaken as independent actions with associated impacts, avoidance and minimization requirements, and mitigation, if required, under applicable federal, state, regional and local agency law.

Finding:

The Project will make a considerable contribution to significant cumulative biological resources impacts. All feasible and reasonable changes or alterations have been required in, or incorporated into, the Project that substantially reduce this potentially significant effect identified in the EIR, though not to a less than significant level. Thus, this impact is significant and unavoidable.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's contribution to unavoidable cumulative environmental impacts to biological resources. There are no feasible and reasonable mitigation measures that can reduce the Project's contribution to cumulative impacts on biological resources in the Project Area to a level that is less than significant. However, implementation of Mitigation Measures 4.4-1 through 4.4-20 will reduce these Project impacts to the greatest extent possible. These cumulative impacts will be further reduced through implementation of the dust control mitigation measures described in section II(3) of these findings related to Air Quality, the spill and hazardous material avoidance and containment mitigation measures described in section II(8) of these findings related to Hazards and Hazardous Materials, and the surface and subsurface water quality and hydrology mitigation measures described in section II(9) of these findings related to Hydrology and Water Quality, which will also be incorporated into the Project.

5. CULTURAL RESOURCES

A. Environmental Effects of the Project Found to Have No Impact on the Environment, or Have a Less Than Significant Impact on the Environment.

None.

B. Environmental Effects of the Project That Are Potentially Significant, but That Can Be Mitigated to Less Than Significant Levels.

Significant Effect:

Without mitigation, the Project has the potential to cause a substantial adverse change in the significance of an historical resource as defined in CEQA Guidelines Section 15064.5 (Impact 4.5-1).

Description of Specific Impact:

Future oil and gas exploration and production activities that would be authorized under the Project may adversely change the significance of historic resources, primarily during construction, by damaging the resource so that it no longer has integrity and is no longer representative of its period of significance. Potential construction impacts include damage to, or destruction of, historic resources from earthmoving, including vibration damage.

Finding:

Without mitigation, the Project has the potential to cause a substantial adverse change in the significance of an historical resource as defined in CEQA Guidelines Section 15064.5. These impacts will be reduced to a level that is less than significant with implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to cause a substantial adverse change in the significance of an historical resource as defined in CEQA Guidelines Section 15064.5. The following mitigation measure will be incorporated into the Project to reduce this impact to a less than significant level.

MM 4.5-1 Prior to initiating ground disturbance activities for an activity for which a conformity review is required, the Applicant shall:

a. Provide an archival records search completed by a qualified archaeologist. This shall include an examination of the California Historical Resources Information Files at the Southern San Joaquin Valley Information Center, California State University, Bakersfield, and a search of the Native American Heritage Commission Sacred Lands Files, Sacramento. The Applicant may rely on a previously performed records search for subsequent ground disturbing activities.

b. If an application location has been previously surveyed and no cultural resources have been recorded on it, no further cultural resources studies shall be required.

c. Implement either:

1. If a site plan includes land that has experienced 100% previous ground-surface disturbance, or is within a section with 300 or more existing oil wells or other agricultural, industrial or urban uses, and the records searches indicate that no cultural or Native American resources are known on it, no further cultural resources studies shall be required. All other application locations shall be subject to intensive (100%)

pedestrian ground-surface survey (Phase I survey/Class III inventory) by qualified archaeologists. The Applicant may rely on a previously performed ground surface survey for subsequent ground disturbing activities; or

2. If an application location has not been previously surveyed based on the records search information, an intensive (100%) pedestrian ground-surface survey (Phase I survey/Class III inventory) by qualified archaeologists shall be required.

d. All prehistoric/Native American archaeological sites, whether identified during the records searches or during the intensive survey, shall be demarcated by a qualified archaeologist, fenced by the Applicant, and preserved in place.

e. Historical (Euro-American) archaeological sites that are potentially eligible for listing in the National Register of Historic Places shall be evaluated by a qualified archaeologist and must meet the requirements of the National Historic Preservation Act of 1966 in order to qualify. Qualifying sites, structures and equipment that are identified during the records search or field survey shall be fenced and preserved in open-space, removed and curated, or treated using appropriate data recovery procedures.

f. Historical (Euro-American) archaeological site types relating to oil and gas activities that have been determined Not Significant/Unique shall require no archaeological study or treatment.

g. All oil and gas industry employees conducting work in the area identified on the Conformity Site Plan shall complete Worker Environmental Awareness Program training including training dedicated to cultural resources protection.

Significant Effect:

Without mitigation, the Project has the potential to cause a substantial adverse change in the significance of an archaeological resource as defined in CEQA Guidelines Section 15064.5 (Impact 4.5-2).

Description of Specific Impact:

Future oil and gas exploration and production activities that would be authorized under the Project may adversely change the significance of archaeological resources, primarily during construction, but also during operations. Potential construction impacts include damage to, or destruction of, archaeological resources from earthmoving and unauthorized collecting. Potential impacts during operations include unauthorized collecting from surface historic trash scatters, but other impacts are not anticipated. Archaeological resources include both prehistoric and historic period sites.

Finding:

Without mitigation, the Project has the potential to cause a substantial adverse change in the significance of an archaeological resource as defined in CEQA Guidelines Section 15064.5. These impacts will be reduced to a level that is less than significant with implementation of the mitigation measures described below.

Brief Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to cause a substantial adverse change in the significance of an archaeological resource as defined in CEQA Guidelines Section 15064.5. Mitigation measure **MM 4.5-1**, described above, will be incorporated into the Project and its implementation will reduce this impact to a less than significant level.

Significant Effect:

Without mitigation, the Project has the potential to directly or indirectly destroy a unique paleontological resource or site or unique geologic feature (Impact 4.5-3).

Description of Specific Impact:

Future oil and gas exploration and production activities that would be authorized under the Project have the potential to adversely impact unique paleontological resources. Adverse impacts may occur to paleontological resources due to grading, other earth disturbance, grubbing, vehicular off-road travel, and other activities that disturb the ground surface, including the demolition of existing structures, facilities, and equipment.

Finding:

Without mitigation, the Project has the potential to directly or indirectly destroy a unique paleontological resource or site or unique geologic feature. These impacts will be reduced to a level that is less than significant with implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to directly or indirectly destroy a unique paleontological resource or site or unique geologic feature. The following mitigation measures will be incorporated into the Project to lessen the impacts to those resources to a level that is less than significant.

MM 4.5-2 As part of any Worker Environmental Awareness Program training, all construction personnel shall be trained regarding the recognition of possible buried paleontological resources and protection of paleontological resources during construction, prior to the initiation of construction or ground-disturbing activities. Training shall inform construction personnel of the procedures to be followed upon the discovery of paleontological materials. All personnel shall be instructed that unauthorized collection or disturbance of fossils is unlawful.

MM 4.5-3 All permits for new wells that use Enhanced Oil Recovery or Well Stimulation methods shall pay a mitigation fee of $50 per well shall be paid to the Buena Vista Museum to fund the continued education and curation of paleontological

resources and provide educational support regarding the paleontological history of the region.

Significant Effect:

Without mitigation, the Project has the potential to disturb human remains, including those interred outside of formal cemeteries (Impact 4.5-4).

Description of Specific Impact:

Any disturbance of human remains would be significant. Burials, prehistoric or historic, are below the surface and usually are not marked even in the case of historic burials as the original wooden markers have deteriorated. Potential impacts to human remains would most likely occur during construction. Earthmoving, such as grading, may reveal human skeletal materials and all work should cease upon discovery. Potential impacts to human remains are unlikely during operations except where new ground disturbance occurs.

Finding:

Without mitigation, the Project has the potential to disturb human remains, including those interred outside of formal cemeteries. These impacts will be reduced to a level that is less than significant with implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's impacts to potential human remains in the Project Area. The following mitigation measures will be incorporated into the Project to lessen the impacts to those resources to a level that is less than significant.

MM 4.5-4 In the event archaeological materials are encountered during the course of ground disturbance or construction, the Project operator/contractor shall cease any ground disturbing activities within 50 feet of the find. The qualified archaeologist shall evaluate the significance of the resources and recommend appropriate treatment measures. Per California Environmental Quality Act Guidelines Section 15126.4(b)(3), Project redesign and preservation in place shall be the preferred means to avoid impacts to significant historical resources. Consistent with California Environmental Quality Act Guidelines Section 15126.4(b)(3)(C), if it is demonstrated that resources cannot be avoided, the qualified archaeologist shall develop additional treatment measures in consultation with the County, which may include data recovery or other appropriate measures. The Planning and Community Development Department shall consult with appropriate Native American representatives in determining appropriate treatment for unearthed cultural resources if the resources are prehistoric or Native American in nature. If after consultation it is deemed appropriate, archaeological materials recovered during any investigation shall be curated at an accredited curation facility. The qualified archaeologist shall prepare a report documenting evaluation and/or additional treatment of the resource. A copy of the report shall be provided to the Kern County Planning and Community Development Department and to the Southern San Joaquin Valley Information Center. In the event archaeological

materials are encountered, in Tier 2 the surface owner shall be notified immediately.

MM 4.5-5 If human remains are uncovered during Project construction, the Applicant shall immediately halt all work, contact the Kern County Coroner to evaluate the remains, and follow the procedures and protocols set forth in Section 15064.4 (e)(1) of the California Environmental Quality Act Guidelines. The Kern County Planning and Community Development Department shall be notified concurrently. If the County Coroner determines that the remains are Native American, the Project proponent shall contact the Native American Heritage Commission, in accordance with Health and Safety Code Section 7050.5, subdivision (c), and Public Resources Code 5097.98 (as amended by Assembly Bill 2641). The Native American Heritage Commission shall designate a Most Likely Descendant for the remains per Public Resources Code 5097.98. Per Public Resources Code 5097.98, the applicant, in coordination with the landowner, shall ensure that the immediate vicinity, according to generally accepted cultural or archaeological standards or practices, where the Native American human remains are located, is not damaged or disturbed by further development activity until the discussion and conference with the Most Likely Descendant has occurred, if applicable, taking into account the possibility of multiple human remains. If the remains are determined to be neither of forensic value to the Coroner, nor of Native American origin, provisions of the California Health and Safety Code (7100 et. seq.) directing identification of the next-of-kin will apply. In the event human remains are uncovered, in Tier 2 the surface owner shall be notified immediately.

C. Environmental Effects of the Project That Cannot Be Mitigated to a Level Less Than Significant.

None.

D. Cumulative Environmental Effects of the Proposed Project That Will Have a Less Than Significant Impact on the Environment.

None.

E. Cumulative Environmental Effects of the Proposed Project That Will Have a Significant Impact on the Environment.

Significant Effect:

The Project will contribute to cumulative impacts to historical, archaeological, or paleontological resources and human remains (Impact 4.5-5).

Description of Specific Impact:

The geographic scope for cumulative impacts to cultural and paleontological resources includes the area within a one-mile radius from the Project Area. Analysis of cumulative impacts takes into consideration the entirety of impacts that the proposed Project would have on cultural resources. Future development and construction could encounter potentially significant cultural and paleontological resources during ground-disturbing construction activities, including

grubbing, grading, and excavation. Potential impacts on cultural resources include the potential to be destroyed by construction equipment and Project-related vehicles, exposure of alluvium during construction that could subject the rocks to increased weathering and erosion, unauthorized collection of fossils by Project personnel (as well as amateur and commercial collectors who would have greater access to the area), and vandalism. Cumulative impacts may result when paleontological, historical, and archaeological resources or human remains cannot be avoided by future projects.

Finding:

The Project will contribute to cumulative impacts to historical, archaeological, or paleontological resources and human remains. All feasible and reasonable changes or alterations have been required in, or incorporated into, the Project to reduce this impact (as discussed below), but such measures will not reduce this impact to a less than significant level. This impact is significant and unavoidable.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's cumulative impacts to the cultural resources of the Project Area and its surroundings. There are no feasible and reasonable mitigation measures that can reduce the Project's impacts on cultural resources in the area to a level that is less than significant. However, Mitigation Measures **MM 4.5-1** through **MM 4.5-5** will be incorporated into the Project to lessen the cumulative impacts to cultural resources to the greatest extent possible. This impact is thus significant and unavoidable.

6. GEOLOGY AND SOILS

A. Environmental Effects of the Project Found to Have No Impact on the Environment, or Have a Less Than Significant Impact on the Environment.

None.

B. Environmental Effects of the Project That Are Potentially Significant, but That Can Be Mitigated to Less Than Significant Levels.

Significant Effect:

Without mitigation, the Project has the potential to expose people or structures to substantial adverse effects, including the risk of loss, injury or death involving the rupture of a known earthquake fault (Impact 4.6-1).

Description of Specific Impact:

The Project Area is located in a seismically active area containing active fault systems. This includes such fault systems as the San Andreas fault system located near the western portion of the Project Area. An expression of seismic faults may include a surface rupture, which are the result of movement along an existing fault, which breaks the land surface. Project activities including high volume hydraulic fracturing and injection of waste water from drilling activities have the potential to induce seismicity, however the potential for hydraulic fracturing to cause felt induced seismic events is considered to be low unless hydraulic fracturing occurs in active fault zones which may result in a felt seismic event. Induced seismicity may also be caused by deep

wastewater injection. However, as discussed EIR Section 4.6, Geology and Soils, wastewater injection in California occurs at much shallower depths (4,700 to 7,700 feet) than in other parts of the U.S. and the volume of wastewater injected in California is about four times less than wells in other locations where induced seismic events have occurred. In addition, more oil and gas production in California occurs in sedimentary basins that are less susceptible to induced seismicity from wastewater injection as compared to injection into fractured hard rock. Moreover, in California, injection wells have been in use for more than 50 years, with 42,000 oilfield injection wells currently operating, and seismicity rates have remained relatively constant for the last 77 years. Thus, the seismic hazard related to current wastewater injection practices in California is low (BSK 2015).

Strong seismic activity could damage current and/or future oil and gas exploration and production activities, such as drilling, well stimulation, and Enhanced Oil Recovery. In addition, well and production infrastructure could be damaged resulting in the degradation of well casing or seals, as well as plugs of abandoned wells. Pipelines transporting oil, gas, waste gas, and/or produced could crack and begin to leak. Damage to active or abandoned well could result in the leakage to underground formations. Although the 2014 CCST study on advanced well stimulation technologies in California indicated that well failure, or blowout rates in the Project Area have been significantly reduced over time by improved well construction technologies, a significant ground shaking event could still potentially cause well failure or other damage to Project-related infrastructure. In addition, future oil and gas exploration and production activities that would be authorized under the Project would involve the installation of buildings and infrastructure that could be occupied by people. Although building codes would have to be implemented in the infrastructure, there would still be a risk of impacts associated with Project activities resulting in the rupture of a known earthquake fault and, therefore, impacts could be significant.

Finding:

Without mitigation, the Project has the potential to expose people or structures to substantial adverse effects, including the risk of loss, injury or death involving the rupture of a known earthquake fault. However, these significant adverse impacts will be reduced to a level that is less than significant by implementation of mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to expose people or structures to substantial adverse effects, including the risk of loss, injury or death involving the rupture of a known earthquake fault. The following mitigation measures will be incorporated into the Project to lessen the impacts to a level that is less than significant:

MM 4.6-1 Prior to beginning a ground disturbance activity, the Applicant shall comply with the following regulations (as applicable) and confirm compliance in its Site Plan Conformity Review application documentation:

a. Alquist-Priolo Earthquake Fault Zoning Act.

b. California Building Code.

c. Division of Oil Gas and Geothermal Resources regulations, as identified in the California Code of Regulations, Title 14, Division 2, Chapter 4, including

regulations implementing Senate Bill 4 as applicable. If hydraulic fracturing is conducted for any well associated with the Site Plan Conformity Review, the Applicant shall comply with requirements to monitor the California Integrated Seismic Network for indication of an earthquake of magnitude 2.7 or greater for the period of 10 days following the end of hydraulic fracturing. The earthquake search radius shall be consistent with Division of Oil Gas and Geothermal Resources Senate Bill 4 regulations. The data will be submitted to Division of Oil Gas and Geothermal Resources for an evaluation of the risks and actions consistent with the Division of Oil Gas and Geothermal Resources Senate Bill 4 regulations. In approving a well stimulation treatment permit that would authorize, within an urban area (i.e., an area with a population over 50,000, as defined by the U.S. Census Bureau), the emplacement of well stimulation fluids into an oil or gas formation that has not been previously been subject to well stimulation activity, and/or into an oil or gas formation for which Division of Oil Gas and Geothermal Resources does not yet possess adequate information about formation fracture geometries, Division of Oil Gas and Geothermal Resources shall impose a permit condition requiring that the applicant conduct ground monitoring to characterize as-built fracture geometries prior to, during, and post-hydraulic fracturing. Monitoring shall also be conducted during fracturing treatments by use of applicable microseismic fracture mapping, tilt measurements, tracers, or proppant tagging. Copies of ground monitoring records shall be provided to the County and Division of Oil Gas and Geothermal Resources for review and approval within 30 days of well stimulation treatment.

d. Additionally, the Applicant shall:

1. Avoid placement of structures intended for human occupancy on or within 50 feet of any active faults designated and mapped pursuant to the Alquist-Priolo Earthquake Fault Zoning Act where the fault breaks the surface.

2. Have a professional geologist prepare a fault rupture hazard evaluation according to guidelines in California Geological Survey Special Publication 42, 2007 for new developments with structures that are intended for human occupancy.

3. All Class II injection wells shall be authorized, and shall comply with all applicable legal requirements, Underground Injection Control Program Approval permit conditions, and be operated according to the California Code of Regulations Title 14 requirements, as described in the mitigation measures for Hydrology and Water Quality.

4. Ensure that active fault trace placement restrictions are in place for all permanent tanks and storage reservoirs used to store, treat, or transport hazardous materials or materials that are considered pollutants to surface water and groundwater, located in an Earthquake Fault Zone.

Ensure that all newly installed pipelines subject to 49 Code of Federal Regulations (CFR) Parts 192 and 195, are engineered and constructed in

compliance with the requirements of the pipeline safety regulations, as set forth by the Pipeline Hazardous Materials Safety Administration (PHMSA). All other newly installed pipelines that transport gas or hazardous liquids are to be constructed, tested operated and maintained in accordance with good oilfield practice and applicable standards set forth and approved by the State Oil and Gas Supervisor. Ensure that all new pipelines designated for or water used for fire suppression are engineered and constructed in compliance with the requirements of California Building Code Chapter 9, Fire Protection Systems, and the California Fire Code to address potential fault rupture displacements.

MM 4.6-2 All structures designed for human occupancy shall be designed to withstand substantial ground shaking in accordance with applicable California Building Code seismic design standards and Kern County Building Code.

Significant Effect:

Without mitigation, the Project has the potential to expose people or structures to substantial adverse effects, including the risk of loss, injury, or death involving strong seismic ground shaking (Impact 4.6-2).

Description of Specific Impact:

Project activities of hydraulic fracturing and deep wastewater injection have the limited potential to induce seismic activity. However, there are no cases where strong seismic shaking (>4.0) have occurred as a result of induced seismicity. Even in other areas of the country, where induced seismicity from hydraulic fracturing and wastewater injection has occurred, the seismic events have not exceeded levels that would damage structures. Significant impacts would occur if the magnitude of earthquakes from strong ground shaking rose to a level that could cause damage to structures or facilities. However, to minimize the effects to people, DOGGR regulates operation of injection wells. Over-pressuring of injected zones is controlled by operating all injection wells according to CCR Title 14, Division 2, Chapter 4, Subchapter 1, Article 3 Requirements.

Finding:

Without mitigation, the Project has the potential to expose people or structures to substantial adverse effects, including the risk of loss, injury, or death involving strong seismic ground shaking. However, these significant adverse impacts will be reduced to a level that is less than significant by implementation of mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to expose people or structures to substantial adverse effects, including the risk of loss, injury, or death involving strong seismic ground shaking. Mitigation Measures **MM 4.6-1** and **MM 4.6-2**, described above, will be incorporated into the Project to reduce this potential impact to a less than significant level.

Significant Effect:

Without mitigation, the Project has the potential to expose people or structures to substantial adverse effects, including the risk of loss, injury, or death involving seismic-related ground failure, including liquefaction (Impact 4.6-3).

Description of Specific Impact:

Liquefaction occurs when saturated, loose materials are weakened and transformed from a solid to a near liquid state due to increased pore water pressure caused by strong ground motion from an earthquake. Project activities such as hydraulic fracturing and deep waste water injection are unlikely to cause induce strong seismic events and their impact is considered a less than significant. However, naturally occurring earthquakes have the potential to cause liquefaction and cause damage to structures. Liquefaction generally can occur in areas of high groundwater (<50 feet) and fine sandy or silty soils and typically consist of more recent Holocene deposits. In the Project Area, areas of high groundwater are located mainly in the northwest portion and southern tip of the Central Subarea and east-central and southeast portions of the Western Subarea. Most of the deposits in the Project Area tend to be more recent deposits. Although impacts from liquefaction have been observed from many major earthquakes around the world including the 1964 earthquakes in China and Alaska, the Christchurch, New Zealand earthquake in 2011, and more recently, the 2015 earthquake in Nepal, the Project is not expected to be the cause of any significant seismic events, and thus, the liquefaction potential from any Project activities is low. Impacts could be significant; however, implementation of MM 4.6-1 and MM 4.6-2 would further reduce the potential for adverse effects as a result of liquefaction; therefore, the impact would be less than significant with mitigation.

Finding:

Without mitigation, the Project has the potential to expose people or structures to substantial adverse effects, including the risk of loss, injury, or death involving seismic-related ground failure, including liquefaction. However, these significant adverse impacts will be reduced to a level that is less than significant by implementation of mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to expose people or structures to substantial adverse effects, including the risk of loss, injury, or death involving seismic-related ground failure, including liquefaction. Mitigation Measures **MM 4.6-1** and **MM 4.6-2**, described above, will be incorporated into the Project to reduce this impact to a less than significant level.

Significant Effect:

Without mitigation, the Project has the potential to expose people or structures to substantial adverse effects, including the risk of loss, injury, or death involving landslides (Impact 4.6-4).

Description of Specific Impact:

Landslides occur due to a number of natural and man-made factors, such as earthquakes, volcanic eruptions, wildfires, and floods. Landslides also are caused by other factors such as strength of underlying material surface and groundwater conditions, surface vegetation, seasonal rainfall (i.e., soil saturation), and areas of steep slopes (generally greater than 30%). They can also occur from anthropogenic practices such as vegetation removal. Landslides caused by Project activities

are not expected as the area of disturbance for each well pad is relatively small (< 3 acres). The Project Area is located in a seismically active area containing several active fault systems; however, volcanic activity is not likely. Wildfires and flooding can occur in localized areas, therefore, the potential for landslides in the Project Area may exist if the other factors are present (steep slopes, ground saturation, and lack of vegetation). The only area of high landslide incidence (where 15% of the area is involved in landsliding), is the southern border of the Project Area (Western, Central, and Eastern Subareas), typically in areas with steep slopes. Development in this area could result in potentially significant adverse effects to people and property in this area; however, it is likely that oil and gas development would not occur on these steep slopes and therefore unlikely that oil and gas activities would induce landslides if these areas would be avoided.

Finding:

Without mitigation, the Project has the potential to expose people or structures to substantial adverse effects during landslides. However, these significant adverse impacts will be reduced to a level that is less than significant by implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to expose people or structures to substantial adverse effects, including the risk of loss, injury, or death involving landslides. The following mitigation measure will be incorporated into the Project to lessen the impacts to a level that is less than significant:

MM 4.6-3 Operators shall avoid siting wells or accessory equipment and facilities on slopes greater than 30% unless the Applicant determines that mineral recovery is infeasible from a different location, and site-specific Professional Engineering certification is submitted concluding that the new equipment will not cause landslides.

Significant Effect:

Without mitigation, the Project has the potential to result in substantial soil erosion or the loss of topsoil (Impact 4.6-5).

Description of Specific Impact:

Soil erosion is caused by a number of factors including: lack of vegetation/roots to bind the soil (from farming, overgrazing, other development); steep slopes and long slope lengths, poor farming practices, catastrophic weather events, everyday water and wind erosion, as well as other anthropogenic influences. In the Project Area, soils with high water erosion factors occur in 44% of the Western Subarea, 49% of the Central Subarea, and 12% of the Eastern Subarea and soils with high wind erosion factors occur in 49%, 38%, and 47%, respectively. Only a small percentage (7%, 0%, and 8%, respectively) exhibit areas with significant slope lengths. Project activities that would involve earth movement include constructing roads to a well site, grading a well pad, constructing pits/sumps, trenching for pipelines, and other excavations. Disturbed areas have a high potential for either wind or water driven erosion. Well pads are expected to have a small 1 to 5 acre footprint. The potential for erosion would be greatest in portions of the Project Area where there are both the high erosion factors and significant slope lengths. In these areas, there could be substantial soil erosion or topsoil loss, resulting in

significant adverse effects. Erosion control measures would be necessary to reduce potential for soil erosion.

Finding:

Without mitigation, the Project has the potential to result in substantial soil erosion or the loss of topsoil. However, this significant adverse impact will be reduced to a level that is less than significant by implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to result in substantial soil erosion or the loss of topsoil. The stormwater mitigation measures described in EIR Section 4.9, Hydrology and Water Quality, will be incorporated into the Project to reduce this impact to a level that is less than significant:

Significant Effect:

Without mitigation, the Project has the potential to be located on a geologic unit or soil that is unstable, or that would become unstable because of the Project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse (Impact 4.6-6).

Description of Specific Impact:

Portions of the Eastern and Western Subareas in the foothill area have sufficiently steep slopes that may potentially expose structures to slope instability or landslides that could cause significant damage or collapse. Grading or construction activities that alter the slope gradient or add loads to slopes could potentially cause slope instability and failure resulting in damaging structures. Structures built on potentially unstable slopes could result in a potentially significant impact. In addition, structures built on liquefiable soils could collapse or be significantly deformed causing structural collapse or be damaged such that the structural integrity is compromised. This would be considered a potentially significant impact. Differential settlement of soils from hydrocompaction of near surface soils that may result in damage to Project-related structures placed on susceptible soil would be a potentially significant impact. Subsidence due to oilfield fluid withdrawal activities (water withdrawal) could be a potentially significant impact.

Finding:

Without mitigation, the Project has the potential to be located on a geologic unit or soil that is unstable, or that would become unstable because of the Project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse. However, these significant adverse impacts will be reduced to a level that is less than significant by implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the environmental impacts of the Project caused by landslide, soil liquefaction, or collapse. Mitigation Measure MM 4.6-3, described above, and Mitigation Measure MM 4.6-4, described below, will incorporated into the Project to reduce this impact to a level that is less than significant:

MM 4.6-4 The Applicant shall confirm compliance with, and shall implement, a Division of Oil Gas and Geothermal Resources approved re-pressuring plan as required by Division 3, Chapter 1, Article 5.5 of the Public Resources Code, commencing with Section 3315. In developed areas where subsidence is confirmed or suspected, subsidence monitoring shall be required using Synthetic Aperture Radar studies and/or other methods as approved by the Division of Oil Gas and Geothermal Resources to quantify and evaluate the potential effect on the area.

Significant Effect:

Without mitigation, the Project has the potential to be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property (Impact 4.6-7).

Description of Specific Impact:

Structures built on soils with high swelling potential may experience shifting, cracking, and breaking damage as these soils expand and contract Thus, soils that are predominantly clay or have high clay content are considered potentially expansive. As discussed above in the Potential Geologic Hazards subsection, 54% of the Western Subarea, 39% of the Central Subarea, and 40% of the Eastern Subarea contain soils with expansive potential. Therefore, structural damage to Project infrastructure due to inadequate soil and foundation engineering or the placement of oil and gas structures directly on expansive soils could cause potentially significant impacts.

Finding:

Without mitigation, the Project has the potential to be located on expansive soil, as defined in Section 1802.3.2 of the California Building Code (2007), creating substantial risks to life or property. However, this significant adverse impact will be reduced to a level that is less than significant by implementation of mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to be located on expansive soil, as defined in Section 1802.3.2 of the California Building Code. The following mitigation measure will be incorporated into the Project to lessen the impacts to a level that is less than significant:

MM 4.6-5 The Applicant shall avoid building infrastructure on expansive soils unless the Applicant determines that mineral recovery is infeasible from a different location, and site-specific Professional Engineering certification is submitted concluding that the new equipment will not cause substantial risks to life or property.

Significant Effect:

Without mitigation, the Project has the potential to have soils that are incapable of adequately supporting the use of septic tanks or alternative wastewater systems where sewers are not available for the disposal of wastewater (Impact 4.6-8).

Description of Specific Impact:

Potential Project activities such as installation of oil and gas well, construction of pipelines and other oilfield related jobs may require the housing of temporary employees or an increase in permanent residents requiring residential structures. While well pad activities would generally utilize portable sanitation units, company structures offices and any temporary housing may require the use of septic systems where public water systems would not be available. The placement of septic systems in areas of slow to very slow infiltration rates may cause adverse impacts to soils and soil stability including areas of saturated soil. There are areas of slow to very slow infiltration rates within the Project Area, typically in upland areas along the perimeter of the Project Area and in some instances in the Central Subarea. Most of the Project Area has high to moderate infiltration rates. Thus, the installation of septic systems in soils with slow to very slow infiltration rates could have significant impacts; however, all new septic system installations require permitting from the County to restrict such impacts.

Future oil and gas exploration and production activities could result in a need for temporary housing for workers. This increase in residential structures could have an impact on soils incapable of adequately supporting the use of septic tanks. Wastewater disposal from temporary housing and from oil and gas production activities could also impact soils and soil stability. All new septic system installations require permitting from the County, therefore, such impacts would be less than significant.

Finding:

Without mitigation, the Project has the potential to have soils that are incapable of adequately supporting the use of septic tanks or alternative wastewater systems where sewers are not available for the disposal of wastewater. These impacts will be reduced to a less than significant level by implementation of the mitigation measure described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to have soils that are incapable of adequately supporting the use of septic tanks or alternative wastewater systems where sewers are not available for the disposal of wastewater. Mitigation Measure **MM 4.6-1**, described above, will be incorporated into the Project to lessen the impacts to a level that is less than significant.

C. Environmental Effects of the Project That Cannot Be Mitigated to a Level Less Than Significant.

None.

D. Cumulative Environmental Effects of the Proposed Project That Will Have a Less Than Significant Impact on the Environment.

Significant Effect:

Without mitigation, the Project has the potential to contribute to cumulative geologic and soil impacts (Impact 4.6-9).

Description of Specific Impact:

Proposed oil and gas production development in the Project Area would alter landforms through activities such as site grading and road construction. In addition, hydraulic fracturing and deep waste water injection may cause low level induced seismicity, but not at a level that would be expected to result in structural damage. Cumulative impacts may occur if multiple seismic inducing activities occurred simultaneously. However, for reasons stated above, although it is anticipated that over 1,000 wells will be hydraulically fractured annually, significant induced seismicity has not been observed and is not anticipated. In addition, although in California, injection wells have been in use for more than 50 years, with 42,000 oilfield injection wells currently operating, seismicity rates have remained relatively constant for the last 77 years and are not anticipated to change. Under these circumstances, oil and gas activities are unlikely to induce multiple seismic events at a level that would cumulatively cause significant damage. Therefore, the contribution of Project-related activities to cumulative impacts on geologic resources and soils would be less than significant.

Naturally occurring impacts to soils and geology, such as naturally occurring earthquakes, may also expose workers and structures to geologic hazards that could result in cumulatively considerable or significant impacts. In these instances, conducting mitigation measures described above would result in cumulative impacts that are less than significant. Prior to beginning Project activities, the Applicant would have to comply with all appropriate rules, mitigation measures, and regulations as described above.

Finding:

Without mitigation, the Project has the potential to contribute to cumulative geologic and soil impacts. These impacts will be reduced to a level that is less than significant with implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to make a considerable contribution to cumulative geologic and soil impacts. Mitigation Measures **MM 4.6-1** through **MM 4.6-5** will be incorporated into the Project to lessen the cumulative impacts to a level that is less than significant.

E. Cumulative Environmental Effects of the Proposed Project That Will Have a Significant Impact on the Environment.

None.

7. GREENHOUSE GAS EMISSIONS

A. Environmental Effects of the Project Found to Have No Impact on the Environment, or Have a Less Than Significant Impact on the Environment.

None.

B. Environmental Effects of the Project That Are Potentially Significant, but That Can Be Mitigated to Less Than Significant Levels.

Significant Effect:

Without mitigation, the Project has the potential to generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment (Impact 4.7-1).

Description of Specific Impact:

GHG emissions would occur during all aspects of oil and gas activities, including the construction and operation of permitted sources, and the operation of non-permitted sources in the Western, Central, and Eastern Subareas. Total emissions resulting from the construction and operation of new facility equipment during a Project year (i.e., any year between 2015 and 2035), and the construction and operation of facilities over the Project period (2015 - 2035) are summarized in EIR Tables 4.7-8 and 4.7-9. GHG emissions from construction and operation of oil and gas wells will continue to be subject to CARB's AB 32 Cap-and-Trade Program and other regulatory mandates, so that oil and gas production in Kern County would not conflict with statewide GHG emissions goals and objectives. The Project would be consistent with the Cap-and-Trade Regulation because all significant facility emissions are subject to the Cap-and-Trade Regulation, either as stationary source emissions for which the facility operator has a compliance obligation, or as emissions from fuel combustion, for which the fuel supplier has a compliance obligation; methane emissions will be limited by the new CARB methane rule expected to be adopted by the end of 2015. However, GHG emissions not covered by Cap-and-Trade Regulations and the BPS, and fugitive emissions may contribute a net increase of GHG in the region that would be a potentially significant impact. To account for additional sources of Project-related GHG emissions not estimated in this analysis (i.e., indirect sources, fugitive emissions), the County has determined to conservatively mitigate Project direct GHG emissions to net zero.

Finding:

Without mitigation, the Project has the potential to generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment. These impacts will be reduced to a less than significant level by implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment. The following mitigation measures will be incorporated into the Project to reduce this impact to a less than significant level:

MM 4.7-1 An Applicant covered by the Cap-and-Trade Program with permitted stationary sources shall comply with the Cap-and-Trade regulation (especially by surrendering greenhouse gas allowances or offset credits to satisfy their compliance obligation under the Program), and implement Best Performance Standards applicable to greenhouse gas reduction for Components at Light Crude Oil and Natural Gas Production, Natural Gas Processing Facilities, Petroleum Refineries, Gas Liquids Processing Facilities, and Chemical Plants (San Joaquin Valley Air Pollution Control District 2010), Thermally Enhanced Oil Recovery Wells (San Joaquin Valley Air Pollution Control District 2010a), Steam Generators (San Joaquin Valley Air Pollution Control District 2010b), and Front-line Organic Liquid Storage Tanks (San Joaquin Valley Air Pollution Control District 2011).

MM 4.7-2 Each Applicant covered by the Cap-and-trade Program shall comply with applicable Cap and Trade regulations, and other applicable greenhouse gas emission control and reduction regulations as these may be adopted or amended over time, to reduce, avoid, mitigate and/or sequester greenhouse gas emissions from Project-related air emissions.

MM 4.7-3 Each Applicant shall implement methods to recover for reuse or destroy methane existing in associated gas and casinghead gas, as follows:

a. Recover all associated gas produced from the reservoir via new wells, regardless of the well type, except for gas produced from wildcat and delineation wells or as a result of start-up, shutdown and maintenance activities (whether planned or unplanned), system failures, and emergencies in accordance with San Joaquin Valley Air Pollution Control District regulations (Rule 4401 and 4409), as this may be amended over time.

b. Compliance with the expected California Air Resources Board methane regulation.

MM 4.7-4 Each Applicant shall offset all greenhouse gas emissions not covered by the Cap-and-Trade program or other mandatory greenhouse gas emission reduction measures through Applicant reductions of greenhouse gas emissions as verified by Kern County, through acquisition of offset credits from the California Air Pollution Control Officers Association Exchange Register or other third party greenhouse gas reductions, with consultation as to the validity of methodology for calculating reductions verified by the San Joaquin Valley Air Pollution Control District and accepted by Kern County, or through inclusion in an Emission Reduction Agreement, to offset Project-related greenhouse gas emissions that are not included in the Cap and Trade program to assure that no net increase in greenhouse gas emissions from the Project.

C. Environmental Effects of the Project That Cannot Be Mitigated to a Level Less Than Significant.

Significant Effect:

The Project will conflict with an applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases (Impact 4.7-2).

Description of Specific Impact:

The proposed Project will be consistent with California's adopted California Climate Change Scoping Plan, CARB's GHG Cap-and-Trade Program, and other applicable adopted standards and regulations. Impacts are therefore anticipated to be less than significant. However, impacts from the Project on applicable plans, policies, or regulations adopted for the purpose of reducing the emissions of GHG emissions would be potentially significant on a cumulative basis. While implementation of MM 4.7-1 through MM 4.7-3 and the 2014 Regional Transportation Plan (RTP) mitigation measures would encourage reduction in GHG emissions at a regional level, they do not provide a mechanism that guarantees GHG emission reductions on a cumulative basis. Kern County also lacks the jurisdiction and control over the many cumulative sources of GHG emissions, and over the global source of GHG emissions, that collectively contribute to climate

change. Many other agencies with the requisite jurisdiction are taking steps to reduce GHG emissions; however, the County cannot assure that these steps will ultimately be implemented or sufficient to address global climate change. Therefore, Impact 4.7-2 would be significant.

Finding:

The Project's potential to conflict with an applicable greenhouse gas emissions reduction plan, policy or regulation of an agency cannot be feasibly prevented. All feasible and reasonable changes or alterations have been required in, or incorporated into, the Project that substantially lessen the potentially significant cumulative effects identified in the EIR, but such measures cannot reduce this potential impact to a less than significant level. This impact is therefore significant and unavoidable.

Brief Explanation of the Rationale for the Finding:

The Project's potential to conflict with an applicable greenhouse gas emissions reduction plan, policy or regulation of an agency is considered significant and unavoidable because such impact cannot be feasibly avoided. Mitigation Measure **MM 4.7-3**, described above, will be incorporated into the Project to reduce this impact to the greatest feasible extent, but implementation of this mitigation measure will not reduce this impact to a less than significant level. Therefore, this impact is significant and unavoidable.

D. Cumulative Environmental Effects of the Proposed Project That Will Have a Less Than Significant Impact on the Environment.

None.

E. Cumulative Environmental Effects of the Proposed Project That Will Have a Significant Impact on the Environment.

Significant Effect:

The Project will make a considerable contribution to cumulative greenhouse gas emission impacts (Impact 4.7-3).

Description of Specific Impact:

Impacts from the Project on cumulative GHG emissions would be potentially significant. While implementation of MM 4.7-1 through MM 4.7-3 and the 2014 RTP mitigation measures would encourage reduction in GHG emissions at a regional level, they do not provide a mechanism that guarantees GHG emission reductions on a cumulative basis. Kern County also lacks the jurisdiction and control over the many cumulative sources of GHG emissions, and over the global source of GHG emissions, that collectively contribute to climate change. Many other agencies with the requisite jurisdiction are taking steps to reduce GHG emissions; however, the County cannot assure that these steps will ultimately be implemented or sufficient to address global climate change. Therefore, Impact 4.7-3 would remain significant and unavoidable.

Finding:

The Project's potential to make a considerable contribution to greenhouse gas emission impacts cannot be feasibly prevented. All feasible and reasonable changes or alterations have been

required in, or incorporated into, the Project that substantially lessen the potentially significant cumulative effects identified in the EIR, but such measures cannot reduce this potential impact to a less than significant level. This impact is therefore significant and unavoidable.

Brief Explanation of the Rationale for the Finding:

The Project's potential to make a considerable contribution to greenhouse gas emission impacts is considered significant and unavoidable because such impact cannot be feasibly avoided. Mitigation Measure **MM 4.7-4**, described above, will be incorporated into the Project to reduce this impact to the greatest feasible extent, but implementation of this mitigation measure will not reduce this impact to a less than significant level. Therefore, this impact is significant and unavoidable.

8. HAZARDS AND HAZARDOUS MATERIALS

A. Environmental Effects of the Project Found to Have No Impact on the Environment, or Have a Less Than Significant Impact on the Environment.

The Project will not result in a safety hazard for people residing or working in the Project Area and within the vicinity of a private airstrip (Impact 4.8-6).

The Project will not impair implementation of, or physically interfere with, an adopted emergency response plan or emergency evacuation plan (Impact 4.8-7).

B. Environmental Effects of the Project That Are Potentially Significant, but That Can Be Mitigated to Less Than Significant Levels.

Significant Effect:

Without mitigation, the Project has the potential to create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials (Impact 4.8-1).

Description of Specific Impact:

Regulations governing the transportation of hazardous material via truck and pipelines are comprehensive and serve to prevent or mitigate releases of hazardous materials in many situations. Historical data suggest that releases have occurred at a frequency such that they occur during routine operations, though the vast majority of these releases have been minor. Further, many of the incidents reported above occurred before enactment of AB 1960 in January 2009 and prior to implementation of the AB 1960 regulations on January 29, 2011, which were enacted to improve, among other things, leak detection, corrosion prevention, and pipeline integrity. Nevertheless, potential releases have the potential to contaminate the environment or expose the public to hazardous materials and, therefore, the impacts could be significant.

The use, handling, storage and disposal of hazardous materials is also regulated. Despite the implementation of federal and state regulations, releases or spills have occurred in the Project Area and would be expected to continue to occur in oil and gas activities authorized under this Project. Since these potential releases could contaminate the environment or expose the public to hazardous materials, the impacts could be significant.

Finding:

Without mitigation, the Project has the potential to create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials. The potential for such impact will be reduced to a less than significant level by implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation measures be applied to the Project to reduce the potential impacts caused by the transportation and use of hazardous materials. The following mitigation measures will be incorporated into the Project and will reduce this impact to a less than significant level:

MM 4.8-1 The Applicant shall provide a comprehensive Worker Environmental Awareness Program to the County with its first Site Plan Conformity Review permit application in each calendar year. The program shall include all training requirements identified in Applicant Best Management Practices and mitigation measures, and include training for all field personnel (including Applicant employees, agents and contractors). The Worker Environmental Awareness Program shall include protocols and training for responding to and handling of hazardous materials and hazardous waste management, and emergency preparedness, release reporting, and response requirements. In Tier 2, the Worker Environmental Awareness Program shall be provided to the surface owner at the time of the application pathway process so the surface owner may educate employees as well.

MM 4.8-2 The Applicant shall arrange for transportation, storage and disposal of all hazardous materials in compliance with the Hazardous Materials Transportation Act. Drivers transporting hazardous materials or wastes should follow the measures recommended by the Federal Motor Carrier Safety Administration for avoiding roll-over accidents. To avoid roll-over accidents involving cargo tank trucks:

a. Avoid sudden movements that may lead to roll-overs.

b. Control your load in turns and on straight roadways.

c. Identify high risk areas on roads.

d. Remain alert and attentive behind the wheel.

e. Control speed and maintain proper "speed cushions."

MM 4.8-3 The Applicant shall implement the following practices:

a. Construction activities shall be conducted to allow for easy clean-up of spills. Construction crews shall have sufficient tools, supplies, and absorbent and barrier materials to contain and recover spilled materials.

b. Fuels and lubricants shall be stored only at designated staging areas. Fuel and lubricant tanks shall have appropriate secondary spill containment (e.g., curbs). Compliance with laws and regulations is required, including

compliance with hazardous materials and hazardous waste storage laws, as applicable.

c. Storage of fuel and lubricants in the staging area shall be at least 100 feet away from the edge of water bodies. Refueling and lubrication of equipment shall be restricted to upland areas at least 100 feet away from stream channels and wetlands.

d. Any fuel truck shall carry an oil spill response kit and spill response equipment at all times.

e. Applicants shall be required to perform all routine equipment maintenance at the well pad or other suitable locations (i.e., maintenance yards), and promptly collect and lawfully dispose of wastes in compliance with existing regulatory requirements.

f. Berms and/or dikes (secondary containment) shall be constructed around the permanent above-ground bulk tanks and the foundations shall be installed with a passive leak detection system, so that potential spill materials shall be contained and collected in specified areas isolated from any water bodies. Tanks shall not be placed in areas subject to periodic flooding or washout. Compliance with laws and regulations is required, including compliance with hazardous materials and hazardous waste storage laws as applicable, including for secondary containment, such as Division of Oil, Gas and Geothermal Resources regulation (Title 14, C.C.R. § 1773.1), which requires secondary containment in "an engineered impoundment such as a catch basin, which can include natural topographic features, that is designed to capture fluid released from a production facility."

g. A sufficient supply of sorbent and barrier materials shall be maintained on construction sites consistent with the type and level of construction activities. Sorbent and barrier materials shall also be utilized to contain runoff from contaminated areas where appropriate.

    1. Shovels and drums shall be stored at each well pad or be readily available. If small quantities of soil become contaminated, hand tools such as shovels or other appropriate tools, shall be used to collect the soil and the material shall be stored in storage drums. Large quantities of contaminated soil may be bio-remediated on-site or at a designated remediation facility, subject to government approval, or collected utilizing heavy equipment, and stored in drums or other suitable containers prior to disposal. Should contamination occur adjacent to staging areas as a result of runoff, shovels and/or heavy equipment shall be utilized to collect the contaminated material. Contaminated soil shall be disposed of in accordance with state and federal regulations.

    2. Above-ground tanks, valves and other equipment shall be visually inspected monthly and when the tank is refilled. Inspection records shall be maintained. Applicants shall periodically check tanks for leaks or spills.

3. Drain valves on all tanks shall be locked to prevent accidental or unauthorized discharges from the tank.

4. Equipment maintenance shall be conducted in staging areas or other suitable locations (i.e., maintenance shops or yards) to the extent practical.

5. The Applicant shall maintain equipment in operating condition to reduce the likelihood of fuel or oil line breaks and leakage. Any vehicles with chronic or continuous leaks shall be removed from the site and repaired before being returned to operation.

h. Applicants are encouraged, but not required, to use an alternate to silica sand as a proppant, after Division of Oil Gas and Geothermal Resources has determined that such an alternative does not introduce new hazards.

MM 4.8-4 The Applicant shall implement the following measures to prevent, repair, and remediate accidental leaks and spills from oil and gas operations.

a. The Applicant shall identify gas, oil and produced water pipelines to be used for each new or reworked well site in its Site Plan, and shall show the location of any sensitive receptor located within 300 feet of any such pipeline. For any pipeline located within 300 feet of a sensitive receptor, the Applicant shall present evidence that each such pipeline has been integrity tested using pressure testing or other accepted test methods by a qualified professional within a two-year period prior to submittal of the Site Plan, and shall provide a copy of the test result to the County. For all waste gas lines less than or equal to 4 inches in diameter, a Pipeline Management Plan shall be developed and implemented in accordance with Division of Oil Gas and Geothermal Resources regulations Title 14, Division 2, Chapter 4, Section 1774.2. The Pipeline Management Plan shall include:

1. A listing of information on each pipeline including, but not limited to:

   i. Pipeline type.
   ii. Grade.
   iii. Installation date of pipeline.
   iv. Design and operational pressure.
   v. Any leak, repair, inspection and testing history.

2. A description of the testing method and schedule for all pipelines.

b. The Applicant shall notify the Kern County Environmental Health Division, Certified Union Program Agency (CUPA), surface landowner, and sensitive receptors located within 300 feet, of any hazardous materials/waste release immediately upon discovery, and to other applicable agencies as required by other laws. The Applicant shall immediately contain the leak (e.g., by isolating or shutting down the leaking equipment), clean up contaminated media (e.g., soils), and repair the leak prior to recommencing operations. The Applicant shall report the status and progress of the leak repair and remediation work to the County and the CUPA on monthly intervals or

predetermined intervals until the repair has been completed. Contaminated media shall be analyzed according to 22 C.C.R. §§ 66261.21-66261.24 for determination of appropriate hazardous waste disposal. Hazardous Waste Determination procedures are provided in 22 C.C.R. §66262.11.

c. As part of the Site Plan, the Applicant shall identify the location and right of way for all pipelines to be used for the transport of oil, gas, and produced water, including pipelines that intersect the main transport line, based on existing data and using commercially available technology, and, based on the results of this analysis, shall identify any sensitive receptors within 300 feet of the pipeline for purposes of complying with Mitigation Measure 4.8-4. Mechanical integrity testing of all such pipeline lengths within 300 feet of a sensitive receptor shall be required pursuant to Mitigation Measure 4.8.4-a.

d. If a release, identified pursuant to subsection (b), cannot be repaired or remediated within 48 hours, and has potential impact to sensitive receptors, the Applicant shall incur costs to sample and analyze the potentially affected area, which may include soil, groundwater, outdoor or indoor air of sensitive receptors within 300 feet of the leak. Applicant shall pay all temporary relocation costs (e.g., housing, food, and transportation) for any exposed sensitive receptor until such time as the leak has been repaired and post-indoor air testing has been completed, as confirmed by identified agency having oversight of the remediation.

MM 4.8-5 If, during grading or excavation work, the Applicant observes evidence of contamination or if soil contamination is suspected, work near the excavation site shall be terminated, the work area cordoned off and appropriate health and safety procedures implemented for the location by the contractor's Health and Safety Officer. Samples shall be collected by a trained and qualified individual. Analytical data from suspected contaminated material shall be reviewed by the contractor's Health and Safety Officer. If the sample testing determines that contamination is not present, work may proceed at the site; however, if contamination is detected above regulatory limits, the Kern County Public Health Services Department shall be notified. All actions related to encountering unanticipated hazardous materials at the site shall be documented and submitted to the Kern County Public Health Services Department.

MM 4.8-6 The Applicant shall implement measures to prevent the release or accidental spillage of solid waste, garbage, construction debris, sanitary waste, industrial waste, naturally occurring radioactive materials, oil and other petroleum products, and other wastes into water bodies or water sources, including all applicable practices included in the most up-to-date versions of the following documents: Exemption of Oil and Gas Exploration and Production Wastes From Federal Hazardous Waste Regulations (EPA 2002). Equivalent industry standards such as Environmental Protection for Onshore Oil and Gas Productions and Leases (American Petroleum Institute 2009) and related standards may also be utilized, provided that a professional engineer, certified industrial hygienist or certified safety professional certifies to the County that such alternative standards are as or more protective of human health and the environment, as compared to the standards in the referenced Environmental Protection Agency manual. The determination of when and the extent to which a measure is "practical" is to be

made by the Applicant; however, all of the below activities must comply with all applicable legal requirements, including federal and state laws and regulations, County ordinances, and the mitigation measures included in this Final EIR.

a. Classify the various oil and gas exploration and production wastes for proper disposal as described in United States Environmental Protection Agency 2002, and in accordance with applicable California laws and regulations.

b. Size reserve pits properly to avoid overflows.

c. Use closed loop mud systems when practical, particularly with oil-based muds.

d. Review safety data sheets of materials used, and select less toxic alternatives when possible.

e. Minimize waste generation, such as by designing systems with the smallest volumes possible (e.g., drilling mud systems).

f. Reduce the amount of excess fluids entering reserve and production pits.

g. Keep non-exempt wastes out of reserve or production pits.

h. Design the drilling pad to contain stormwater and rigwash.

i. Recycle and reuse oil-based muds and high density brines, when practical, and when such recycling and reuse complies with hazardous waste laws and recycling laws.

j. Perform routine equipment inspections and maintenance to prevent leaks or emissions.

k. Reclaim oily debris and tank bottoms when practical, and when such reclamation complies with hazardous waste laws and recycling laws.

l. Minimize the volume of materials stored at facilities.

m. Construct adequate berms around materials and waste storage areas to contain spills.

n. Perform routine inspections of materials and waste storage areas to locate damaged or leaking containers.

o. Train personnel to use sensible waste management practices.

MM 4.8-7 Conduct exploration and development activities as described in *Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development The Gold Book* (Bureau of Land Management 2007) or equivalent industry standard such as Environmental Protection for Onshore Oil and Gas Production Operations and Leases (American Petroleum Institute 2009) and related standards. The following specific measures should be undertaken at a minimum:

a. Sufficient impervious secondary containment, such as containment dikes, containment walls, and drip pans, should be constructed and maintained around all qualifying petroleum facilities, including tank batteries and separation and treating areas consistent with the Environmental Protection Agency's Spill Prevention, Control, and Countermeasures regulation (40 Code of Federal Regulations 112). The containment structure must have sufficient volume to contain, at a minimum, the content of the largest storage tank containing liquid hydrocarbons within the facility/battery and sufficient freeboard to contain precipitation, unless more stringent protective requirements are deemed necessary by the authorized officer. Drip pans should be routinely checked and cleaned of petroleum or chemical discharges and designed to prevent access by wildlife and livestock.

b. Chemical containers should not be stored on bare ground, and should be maintained in good condition and placed within secondary containment in case of a spill or high velocity puncture.

c. Containment dikes are not to be constructed with topsoil or coarse, insufficiently impervious spoil material. Containment is strongly suggested for produced water tanks. Chemicals should be placed within secondary containment and stored so that the containers are not in contact with soil or standing water and product and hazard labels are not exposed to weathering.

d. Maintain a clean well location. Remove trash, junk, and other materials not in current use.

e. In approving a well stimulation treatment permit, the applicant shall include in the spill contingency plan required by Section 1722.9 of Title 14 of the California Code of Regulations a protocol for measuring and reporting earthquake and earth consequences that occur during the well stimulation process, for however many well stimulation treatments are proposed to occur simultaneously at any given time. The Spill Contingency Plan shall include requirements for adequate personnel and equipment that may be necessary to conduct post-earthquake inspection and repair plans to evaluate any damage that has occurred. The Spill Contingency Plan shall include spill prevention, control and countermeasure plans to address the hazardous substances associated with well stimulation activities. The post-earthquake inspection procedures shall ensure the integrity of the mechanical systems and well integrity of wells used for stimulation or wastewater injection and idle wells that might have become conduits for escaping fluids or gases. The plan shall include procedures describing the necessary steps to be taken after service is disrupted in order to make the facilities secure, operational and safe as soon as possible.

MM 4.8-8 Applicants shall use the appropriate American Petroleum Institute Standards, or other recognized sources imposing the same or equivalent standards, for their facility, such as the following:

a. Use cements and well materials in well completions as described in Specifications for Cements and Materials for Well Cementing (American Petroleum Institute 2011).

b. Prior to start-up of all new facilities, verify and prove the construction, installation, integration, testing, and preparation of systems have been completed as designed following the practices described in Facilities Systems Completion Planning and Execution (American Petroleum Institute 2013a).

c. When the use of centralizers and stop-collars are required during well completion activities, follow the installation and testing requirements described in Recommended Practice for Centralizer Placement and Stop-collar Testing (American Petroleum Institute 2010a).

d. Limit the environmental footprint of oil and gas exploration and production and reduce the incidence of releases of hazardous substances following the practices described in Environmental Protection for Onshore Oil and Gas Production Operations and Leases (American Petroleum Institute 2009).

e. Minimize improper disposal by following the practices described in American Petroleum Institute Order No. G00004, Guidelines for Commercial Exploration and Production Waste Management Facilities (American Petroleum Institute 2001) or other recognized methods. These guidelines discuss the relevant regulations and permitting requirements; siting, construction, and technical consideration for various waste disposal options; as well as mitigation options.

f. Minimize the environmental footprint of exploration and production activities following the practices described in Land Drilling Practices for Protection of the Environment (American Petroleum Institute 2010b) or other recognized sources.

g. When pressure testing is required by State or federal law, prior to pressurizing or re-pressurizing petroleum product pipelines, ensure the integrity of pipelines following the practices described in Recommended Practice for the Pressure Testing of Steel Pipelines for the Transportation of Gas, Petroleum Gas, Hazardous Liquids, Highly Volatile Liquids, or Carbon Dioxide (American Petroleum Institute 2013b) or other recognized sources.

h. To minimize releases of hazardous substances during oilfield construction, pit and sump operations shall be conducted in accordance with State Water Resources Control Board General Orders or appropriate Regional Water Quality Control Board waste discharge requirements or general orders.

MM 4.8-9 For all operations subject to the Oil and Gas Conformity Review, the Applicant shall comply with the pipeline management plan, including inspection and maintenance requirements, as administered by the Division of Oil Gas and Geothermal Resources pursuant to 14 California Code of Regulations 1774.

MM 4.8-16 The applicant shall not use any well stimulation fluid unless the applicant presents one of the following:

1. Safety Data Sheet that accurately describes the physical and chemical properties of the well stimulation fluid; or

2. Safety Data Sheets that accurately describe the physical and chemical properties of all chemical compounds in the well stimulation fluid; or

3. Toxicological report prepared by a qualified laboratory and/or the fluid vendor confirming the environmental profile of the well stimulation fluid is known; or

4. Results of an aquatic bioassay by a qualified laboratory confirming the environmental profile of the well stimulation fluid is known.

For purposes of this mitigation measure, the term "environmental profile" means the physical and chemical properties of a compound that determine its risk to human health and the environment. This mitigation measure shall be superseded by any list of approved well stimulation treatment fluids, chemicals or additives published by the State of California or by any applicable State of California regulation pertaining to chemical use in well stimulation treatment.

Significant Effect:

Without mitigation, the Project has the potential to create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment (Impact 4.8-2).

Description of Specific Impact:

Oil and gas activities could result in spills from accidents or improper handling or disposal of fuels or hazardous materials. Spills, release, overflow of tanks, or breach of containment can occur from operator error or limited storage capacity, water ingress from stormwater or floods, poor construction or failure of tanks and/or liners, or pipeline failure. A worst-case scenario would be a breach at central processing facility where petroleum products or hazardous materials are stored in bulk. A spill or release could expose workers and the public to levels of hazardous materials in excess of applicable regulations.

The most commonly spilled materials are crude oil and produced water, but also acids, condensates, and drilling muds. The most common causes are from most to least common:

- Production line failure due to corrosion, but also from the use of PVC lines instead of steel lines;
- Equipment failure mostly from valves, fittings, storage tanks, and pumps;
- Human error mostly from valves left open;
- Surface break-through by drilling mud, crude oil, and produced water during steam treatment of wells for enhanced oil recovery. Break-through occurred at nearby wells, abandoned wells, hillsides, and at a well during drilling.

Although the new production lines associated with the implementation of this Project would not be subject to corrosion right away, the number of spills from existing facilities could increase as those facilities age. Equipment failure and human error would still be possible; therefore, there

could be leaks or releases that could have a significant impact to public safety and the environment.

The amount of cyclic steaming could increase compared to baseline levels consistent with the general increase in oil and gas activities that might occur pursuant to the Project. Cyclic steaming at or above the fracture gradient into zones with low permeability (e.g., tight reservoirs) has the potential to increase the occurrence of inadvertent releases of oil, water, steam, or mud to the surface. These releases are commonly referred to as "surface expressions." A blowout is the worst-case surface expression. Due to the potentially catastrophic events that can occur to public safety and the environment if blow-outs or a pressure/steam-related event occur, impacts could be significant if a blowout or pressure/steam related event were to occur.

Finding:

Without mitigation, the Project has the potential to create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment. This significant adverse impact will be reduced to a level that is less than significant by implementation of mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment. Incorporation of Mitigation Measures **MM 4.8-1** through **MM 4.8-9**, described above, and incorporation of the following mitigation measures into the Project will reduce this impact to a level that is less than significant:

MM 4.8-10 The Applicant shall incorporate annual maintenance checks for leaks and corrosion that cause releases into current operations, maintenance, and inspection schedules as provided by the Division of Oil Gas and Geothermal Resources pursuant to 14 California Code of Regulations Sections 1774.1 and 1774.2, the Applicant shall visually inspect all above-ground pipelines for leaks and corrosion at least once per year, comply with the pipeline testing requirements included therein, shall maintain records of such inspections and testing; and shall make inspection and testing records available to the County for review upon request.

MM 4.8-11 As part of the Hazardous Materials Business Plan and the spill prevention, control, And countermeasures Plan, the Applicant shall require annual worker training requirements to: increase awareness of the most common types of failures and methods to avoid mistakes, shall maintain records of employee training, and shall make such records available to the County for review upon request.

MM 4.8-12 An Applicant who plans to perform cyclic steam injection activities above reservoir fracture pressures shall conduct such activities in accordance with the requirements set forth in the Division of Oil Gas and Geothermal Resources site-specific Project Approval Letter for the injection Project. The following requirements from a Project Approval Letter for an injection Project are examples of the types of conditions that would be triggered if a surface

expression were to occur, though such conditions may be modified by the Division of Oil Gas and Geothermal Resources to reflect site-specific conditions and changing regulatory requirements.

a. Cease cyclic steaming operations in accordance with the site-specific Project Approval Letter. Streaming can resume following the Division of Oil Gas and Geothermal Resources specifications outlined in the Project Approval Letter.

b. All new or reactivated surface expressions that discharge oil in a reportable quantity shall be reported as an oil spill to the California Emergency Management Agency at (800) 852-7550.

c. Any measures to address surface expressions from the well and associated Project shall be reviewed by the Division of Oil Gas and Geothermal Resources prior to initiating.

d. Immediately control any water, steam, or oil flowing from a surface expression and contained. All discharged material shall be removed and disposed of in a manner approved by all state and local agencies.

e. Cordon off and clearly mark all surface expressions to prevent inadvertent access.

f. Conduct air sampling of any emissions associated to a recent surface expression in accordance to the local air board requirements to ensure a health hazard condition does not exist.

g. Report immediately to the Division of Oil Gas and Geothermal Resources all surface expressions within 300 feet of the Project site. If the surface expression continues to flow after five days, all wells within a 300-foot radius shall cease steaming until the surface expression ceases to flow. If the surface expression continues to flow, the damage will be evaluated at the Supervisor's discretion, as assigned by Section 3106 of the Public Resources Code and existing laws and regulations.

MM 4.8-13 The Applicant shall comply with the Division of Oil Gas and Geothermal Resources requirements for assuring safe drilling and drill casing practices, well design, construction and well management requirements, blowout requirements, and all other provisions of 14 California Code of Regulations 1744 and other applicable Division of Oil Gas and Geothermal Resources regulations. The Applicant shall also reduce the incidence of well control loss by following the practices described in Recommended Practice for Well Control Operations (American Petroleum Institute 2012).

MM 4.8-14 The Applicant shall report contamination caused by oil and gas activities, including previously unknown injection wells, of a reportable quantity of hazardous substances, as specified in the Code of Federal Regulations Title 40 and/or the California Code of Regulations Titles 22 and 23, which is discovered during Project construction activities and operations. Notification must be made to Kern County Environmental Health Division and the appropriate

implementing regulatory agency that has responsibility or oversight of the specific contamination conditions. The Applicant shall remediate such contamination outside Tier 1 areas as required by the Kern County Environmental Health Division and the appropriate implementing regulatory agency.

Significant Effect:

The Project will emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school (Impact 4.8-3).

Description of Specific Impact:

A Health Risk Assessment (HRA) was completed to assess the potential health effects of the Project. A detailed discussion of the risk assessment and its results are included in EIR's discussion of Impact 4.3-4. The HRA shows that the potential cancer risk exceeds the CEQA significance thresholds of 10 in 1 million for drilling a 10,000-foot well in 2015 to a distance 367 feet, and for drilling a 5,000-foot well in year 2015 to a distance of 116 feet, and for operations of the oil processing equipment to a distance of 701 feet. By 2018, due to emission reductions resulting from compliance deadlines occurring from CARB current diesel regulations, the risks associated with drilling a 5,000-foot (or shallower) well would not exceed the 10 in one million threshold. This analysis suggests that at 0.25 mile, risks from construction activities would be less than the CEQA significance threshold; however, there could be health risks for schools located less than 700 feet from oil processing equipment and located less than 367 feet from drilling of a 10,000-foot well. Therefore, impacts could be significant. Implementation of the setback requirements in EIR Sections 4.3, Air Quality, would ensure that oil and gas activities would not occur in close proximity to schools and, therefore, the impact would be less than significant with mitigation.

Some of the acutely hazardous materials that have been used in oil and gas activities in Kern County include anhydrous ammonia, hydrochloric acid, oxygen difluoride (compressed gas), peracetic acid (acetic acid over 60%), hydrogen sulfide, and nitric oxides. During all phases of oil and gas activities, acutely or extremely hazardous materials would have to be transported according the Hazardous Materials Transport Act, handled and stored according to OSHA and California Fire Code, and disposed of according to RCRA and California Hazardous Waste regulations. Most oil and gas activities do not require the long-term storage of hazardous or acutely hazardous materials. Some of these types of chemicals would be used during acid-based WST operations defined by SB 4, as well as non-SB 4 routine maintenance operations and generally during the production process.

California State law requires that new schools should not be located near an aboveground water or fuel storage tank or within 1,500 feet (0.28 miles) of the easement of an aboveground or underground pipeline that can pose a safety hazard as determined by a risk analysis study. Therefore, new schools would not be sited near oil and gas operations or pipelines. Currently, oil and gas wells cannot be drilled within 300 feet of a school, but that does not preclude other oil and gas activities from occurring within 300 feet of a school, such as the installation of pipelines or other operational activities. Although state and federal regulations safeguard the handling of acutely hazardous materials during routine operations and these should prevent releases, accidents do occur. Schools and other locations where people congregate are particularly vulnerable to accidents. Therefore, impacts could be significant.

Finding:

Without mitigation, the Project has the potential to emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school. This significant adverse impact will be reduced to a level that is less than significant by implementation of mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school. Incorporation of the toxic air contaminant setback mitigation measures described in EIR Section 4.3, Air Quality, and incorporation of the following mitigation measures into the Project will reduce this impact to a level that is less than significant:

MM 4.8-15 The Applicant who intends to use acutely hazardous chemicals, including chemicals at or above the specified threshold quantities or a process which involves a Category 1 flammable gas or a flammable liquid with a flashpoint below 100 degrees Fahrenheit (37.8 degrees Celsius) on site in one location, in a quantity of 10,000 pounds (4535.9 kilograms) or more according to 8 California Code of Regulations Section 5189, Appendix A, within 0.25 mile from a school must:

a. Evaluate whether other alternative chemicals that are less hazardous could be used.

b. Ensure that the smallest quantity of necessary acutely hazardous materials are stored on site.

c. Notify the occupants of the buildings when and where acutely hazardous materials would be used.

d. Notify Kern County Fire Department about the details of the use of acutely hazardous materials (e.g., when, where, how much).

e. Ensure that all employees who would contact the acutely hazardous materials are trained on the handling, transport, storage, and disposal of the materials.

f. Ensure that all employees who would contact the acutely hazardous materials are trained and are provided the proper personal protective equipment.

g. Ensure that all employees who would contact the acutely hazardous materials are trained and have exercised on the Spill Prevention, Control, and Countermeasures Plan that addresses these chemicals.

Significant Effect:

Without mitigation, the Project has the potential to create a hazard to public or the environment as a result of being located on a site that is included on a list of hazardous material sites compiles pursuant to Government Code Section 65962.5 (Impact 4.8-4).

Description of Specific Impact:

Government Code Section 65962.5 requires CalEPA to compile a hazardous materials release sites called the Cortese List. This list is housed in a database called ENVIROSTOR. The list for the Project Area includes locations that are under evaluation, need evaluation, active, inactive, undergoing closure, closed, and closed with land use restrictions. Most of the current sites are located within Bakersfield or other municipalities, but some are located within or near oilfields (see Figure 4.8-6). The list of sites changes as sites are cleaned up or are designated hazardous waste sites. Appendix R contains the list as of January 21, 2015. In addition, there are multiple locations where there has been petroleum product contamination including within oilfield operating areas.

Oil and gas activities, such as preparation of new sites; exploratory drilling; drilling of production wells; excavation of onsite soils for building foundations, pits, sumps, or other facilities, have the potential to disturb soils or cross aquifers. Unearthing of pre-existing contaminated soil at an identified hazardous waste site, causing pre-existing contamination in one groundwater aquifer to enter another, or disturbing formerly contaminated areas that have been capped has the potential to expose the public or the environment to contamination and therefore impacts could be a significant impact.

Finding:

Without mitigation, the Project has the potential to create a hazard to public or the environment as a result of being located on a site that is included on a list of hazardous material sites compiles pursuant to Government Code Section 65962.5. However, these significant adverse impacts will be reduced to a level that is less than significant by implementation of mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential create a hazard to public or the environment as a result of being located on a site that is included on a list of hazardous material sites compiles pursuant to Government Code Section 65962.5. Incorporation of Mitigation Measure **MM 4.8-14**, described above, and Mitigation Measures **MM 4.8-17** and **MM 4.8-18**, as described below in the findings regarding Impact 4.8-5, into the Project will lessen the impacts to a level that is less than significant:

Significant Effect:

Without mitigation, the Project has the potential to result in a safety hazard for people residing or working those portions of the Project Area located within an adopted Airport Land Use Compatibility Plan (Impact 4.8-5).

Description of Specific Impact:

Currently, 10 oilfields are located within 2 miles of a public use airport (see Figure 4.8-7). The proposed amended ordinance does not have any specific restrictions associated with land use restrictions near airports or private airstrips; therefore, additional oil and gas activities could occur within close proximity of public use airport or private airstrip.

The Kern County Airport Land Use Compatibility Plan (ALUCP) specifies restrictions within designated zones surrounding airports to ensure that activities within those zones are compatible

with the safe operation of the airport. If oil and gas-related development activities are proposed in the vicinity of one of the 16 airports identified in the Kern County ALUCP, some activities may not be compatible with the ALUCP and, therefore, would have a significant impact. Drilling rigs and storage tanks could exceed height limits in certain airport influence zones. Lighting on drilling rigs, tanks, roads, pumps, and other facilities could exceed restrictions on lighting type, design, and placement in certain airport influence zones. Whether oil and gas activities would pose a hazard to navigation would be determined by the FAA in response to notification of that agency of a proposed Project. Therefore, oil and gas development related equipment heights and lighting placement/design could create a significant hazard to aviation safety, with attendant potential impacts to people and the environment, in the vicinity of a public use airport.

Finding:

Without mitigation, the Project has the potential to create a significant safety hazard for people residing or working those portions of the Project Area located within an adopted Airport Land Use Compatibility Plan. However, this potentially significant adverse impact will be reduced to a level that is less than significant by implementation of mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to result in a safety hazard for people residing or working those portions of the Project Area located within an adopted Airport Land Use Compatibility Plan. The following mitigation measure will be incorporated into the Project to reduce this impact to a level that is less than significant:

MM 4.8-17 The Applicant shall determine whether any proposed construction or alteration meets requirements for notification of the Federal Aviation Administration. If a proposed construction or alteration is found to require notification, the Applicant shall notify the Federal Aviation Administration and request that the Federal Aviation Administration issue a Determination of No Hazard to Air Navigation. If the Federal Aviation Administration determines that the construction or alteration would result in a potential hazard to air navigation, the Applicant would be required to work with the Federal Aviation Administration to resolve any adverse effects or airport operations. The Applicant shall notify the Federal Aviation Administration and the nearest Airport, by completing and submitting Federal Aviation Administration Form 7460-1 if oil and gas related exploration, production, or associated development activities are planned that meet one or more of the following criteria:

a. Any construction or alteration exceeding 200 feet above ground level.

b. Any construction or alteration within 20,000 feet of all public use airports except Poso-kern Airport which exceeds a 100:1 surface from any point on the runway.

c. Any construction or alteration within 10,000 feet of the Poso-Kern Airport which exceeds a 50:1 surface from any point on the runway.

d. Any construction or alteration within 5,000 feet of a public use heliport which exceeds a 25:1 surface.

e. When requested by the Federal Aviation Administration.

f. Any construction or alteration located on a public use airport or heliport regardless of height or location.

MM 4.8-18 The Applicant shall determine the distance from the proposed operation to the nearest boundary of the Joint Service Restricted R-2508 Complex, using a map of this Complex provided by the County. The Applicant shall notify the Joint Service Restricted R2508 Complex representative identified by the County if oil and gas related exploration, production, or associated development activities are planned that meet one or more of the following criteria:

a. Any structure within 75 miles of the R-2508 Complex that is greater than 50 feet tall.

b. Any project within 50 miles of the R-2508 Complex that emit radio and communication frequencies.

c. Any project that would create environmental impacts such as visibility or elevated obstructions within 25 miles of the R-2508 Complex.

MM 4.8-19 All oil and gas related development activities shall review the Kern County Airport Land Use Compatibility Plan for compliance with all applicable policies.

Significant Effect:

Without mitigation, the Project has the potential to expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands (Impact 4.8-8).

Description of Specific Impact:

The Project Area is characterized by the mostly agricultural floor of the San Joaquin Valley, forest or grassland covered hills, and urban environments, each of which has an associated fire risk. The combination of seasonally hot weather, dry climate, wind, and fuel load result in areas of moderate to very high fire severity as indicated in the Kern Multi-Jurisdiction Hazard Mitigation Plan. According to the Kern Multi Jurisdiction Hazard Mitigation Plan, areas of the San Joaquin Valley are mostly mapped as having a fire severity rating of less than moderate due to the lack of fuel. Hills surrounding the San Joaquin Valley are rated with mostly moderate and high severity with areas of very high severity near the southern and northwestern boundary of the Project Area. Most oilfields are located in areas with moderate fire hazard severity or are located in non-wildland/non-urban areas.

Construction and operational activities, such as brush clearing, welding, cutting, grinding, and blasting, could occur anywhere in the Project Area. In certain locations, these activities could increase the potential for wildland fires. Although the exact location of future oil and gas development is not known within the Project Area, activities associated with the implementation of the Project could result in a significant risk of wildland fires that could result in loss, injury, or death.

Finding:

Without mitigation, the Project has the potential to expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands. This potential impact will be reduced to a level that is less than significant with implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands. The following mitigation measures will be incorporated into the Project to lessen the impacts to a level that is less than significant:

MM 4.8-20 The Applicant is required to implement the following measures:

a. Comply with Kern County Fire Codes.

b. Maintain firefighting apparatus and supplies required by the Kern County Fire Department.

c. Maintain of a list of all relevant fire-fighting authorities for each work site.

d. Have available equipment to extinguish incipient fires and or construction of a fire break, such as: chemical fire extinguishers, shovels, axes, chain saws, etc.

e. Carry water or fire extinguishers and shovels in non-passenger vehicles in the field.

f. Have and maintain an adequate supply of fire extinguishers for welding, grinding, and brushing crews.

g. Use available resources to protect individual safety and to contain any fire that occurs and notify local emergency response personnel.

h. Remove any flammable wastes generated during oil and gas activities regularly.

i. Store all flammable materials used in oil and gas activities away from ignition sources and in approved containers.

j. Allow smoking only in designated smoking areas.

k. Prohibit smoking where flammable products are present and when the fire hazard is high. Train personnel regarding potential fire hazards and their prevention.

l. All internal combustion engines, stationary and mobile, shall be equipped with spark arresters. Spark arresters shall be in good working order.

m. Light trucks and cars with factory-installed (type) mufflers shall be used only on roads where the roadway is cleared of vegetation. Said vehicle types shall maintain their factory-installed (type) muffler in good condition.

n. Fire rules shall be posted on the Project bulletin board at the contractor's field office and areas visible to employees.

o. Equipment parking areas and small stationary engine sites shall be cleared of all extraneous flammable materials.

p. Personnel shall be trained in the practices of the Fire Safety Plan relevant to their duties. Construction and maintenance personnel shall be trained and equipped to extinguish small fires in order to prevent them from growing into more serious threats.

MM 4.8-21 The Applicant should restrict the use of chainsaws, chippers, vegetation masticators, grinders, tractors, torches, and explosives at its locations, and ensure the sites where this equipment is used are equipped with portable or fixed fire extinguishers and/or a water tank, with hoses, fire rakes, and other tools to extinguish and or control incipient stage fires. The Worker Environmental Awareness Program shall include fire prevention and response training for workers using these tools.

Significant Effect:

Without mitigation, the Project has the potential to generate vectors or have a component that includes agricultural waste exceeding adopted qualitative thresholds (Impact 4.8-9).

Description of Specific Impact:

Oil and gas activities that would be authorized under this Project do not involve the generation of agricultural or food waste; however, implementation of the Project would involve construction and operations that could result in standing water, trash piles, or open containers that could provide breeding areas for mosquitoes, flies, or rodents. These potential disease vectors could pose a potential hazard to personnel or the public.

Construction of the Project would occur in an area favorable to the growth of the Valley Fever vector, the fungus *Coccidioides immitis*, which grows in soils in areas of low rainfall, high summer temperatures, and moderate winter temperatures. Project construction would disturb the soil and cause the fungal spores to become airborne, potentially putting construction personnel and wildlife at risk of contracting Valley Fever; however, most Valley Fever cases are very mild, and more than half of infected people either have no symptoms or experience flu-like symptoms and never seek medical attention. In addition, mitigation for dust control, as described in Section 4.3, Air Quality, would minimize the spread of fungal spores. Oil and gas activities that would be authorized under this Project have the potential to generate disease vectors which could pose a hazard to personnel or the public, therefore, impacts could be significant.

Finding:

Without mitigation, the Project has the potential to generate vectors or have a component that includes agricultural waste exceeding adopted qualitative thresholds. This impact will be reduced to a level that is less than significant by implementing the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to generate vectors or have a component that includes agricultural waste exceeding adopted qualitative thresholds. The dust control and Valley Fever education and mask measures described in EIR Section 4.3, Air Quality, and the following mitigation measure will be incorporated into the Project to reduce this impact to a level that is less than significant:

MM 4.8-22 Applicants shall ensure that trash is stored in closed containers and removed from the site at regular intervals. Open containers shall be inverted and construction ditches shall not be allowed to accumulate water. Construction and maintenance operations shall not generate standing water. Naturally occurring depressions, drainages, or pools at the site shall not be drained or filled without consulting with the appropriate resource agency (Kern County, United States Army Corps of Engineers, United States Fish and Wildlife Service, California Department of Fish and Wildlife) as applicable, and obtaining the appropriate permits.

C. Environmental Effects of the Project That Cannot Be Mitigated to a Level Less Than Significant.

None.

D. Cumulative Environmental Effects of the Proposed Project That Will Have a Less Than Significant Impact on the Environment.

Significant Effect:

Without mitigation, the Project has the potential to contribute to significant cumulative hazards and hazardous materials impacts (Impact 4.8-10).

Description of Specific Impact:

Since oil and gas activities could occur anywhere in the Project Area, it is not possible to analyze the combined impacts of hazards or a release of hazardous materials and wastes from the Project and existing or reasonably foreseeable projects at a specific location.

With regard to the creation of a hazard through the routine transport, use, or disposal of hazardous materials (Impact 4.8-1), a potentially significant impact could result if a spill or leak were to occur during oil and gas construction or operation activities; however, compliance with state and county regulations and the mitigation measures outlined above would ensure that impacts would remain less than significant. This impact does not have the potential to combine with contamination from spills from other projects within 0.5 mile of the site to result in a cumulative impact due to the site- specific nature of soil contamination and the mitigation measures that would ensure proper cleanup and disposal of contaminated soil. Cumulative contamination of groundwater is discussed in Section 4.9, Hydrology and Water Quality. Therefore, impacts of the Project would not be expected to make a cumulatively considerable contribution, in combination

with impacts from past, present, or reasonably foreseeable projects, to result in a cumulative impact.

With regard to creation of a hazard through upset or accident conditions involving a hazardous material release (Impact 4.8-2), the potential exists for oil and gas activities through the implementation of the Project to result in the release of hazardous materials in the soil resulting in exposure of personnel and other sensitive receptors to contaminant levels that could result in short-term and/or long-term health effects. Additionally, releases from pipelines could pose a hazard to personnel and the public; however, conformance with existing state and county regulations, Project safety design features, and implementation of the mitigation measures identified above would render this impact less than significant. This impact does not have the potential to combine with impacts of other projects because of the localized nature of the impacts, and because appropriate safety, cleanup, and disposal methods would be implemented to reduce the impact to a level that would not combine with impact of other projects. Therefore, impacts of the Project would not have the potential to make a cumulatively considerable contribution in combination with impacts from past, present, or reasonably foreseeable projects to result in a cumulative impact.

With regard to creation of a hazard to the public or the environment as a result of being located on a site that is included on a list of hazardous material sites compiled pursuant to government code section 65962.5, although the exact location of new oil and gas development is not known, implementation of MM 4.8-3 and 4.8-15 would ensure that the Applicant not only has a method to address unanticipated contamination, but they have also proactively evaluated whether there is a potential hazardous waste site where they would be operating and have made measure to avoid disturbing it. Therefore, impacts of the Project would not have the potential to combine with impacts from past, present, or reasonably foreseeable projects to result in a cumulative impact.

With regard to the creation of a safety hazard for a project located within the Kern County ALUCP, oil and gas activities could occur within the Kern County ALUCP, and therefore, do have the potential to result in creation of a safety hazard to air navigation. However, the Project would be required to comply with County zoning requirements and FAA regulations to ensure that impacts remain less than significant (Impact 4.8-4). With the implementation of MM 4.8-14, 4.8-17, and 4.8-18, in conjunction with compliance with existing rules, the Project does not have the potential to combine with impacts of other projects. Therefore, impacts of the Project would not have the potential to make a cumulatively considerable contribution, in combination with impacts from past, present, or reasonably foreseeable projects, to result in a cumulative impact.

With regard to interference with an adopted emergency response plan or emergency evacuation plan (Impact 4.8-5), it would be unlikely that Project-related activities would interfere with the Lake Isabella emergency response/evacuation. The Project's less-than-significant impact has the potential to combine with other current and future projects that would generate high volumes of traffic on area roadways by creating a cumulative traffic burden on regional roadways; however, given the overall rural nature of the Project Area, and the fact that the Kern Council of Governments Regional Transportation Plan took in account traffic volumes from anticipated projects, the potential for a considerable contribution to a cumulative impact to emergency response is unlikely to occur, and would therefore be less than significant.

With regard to exposing people or structures to a wildland fire hazard (Impact 4.8-6), construction and maintenance would increase the likelihood of wildfire ignition; however, implementation of MM 4.8-19 outlined above would substantially reduce the possibility of a Project-related ignition, rendering this impact less than significant. Mitigation would reduce this

impact to a level that would not combine with other projects. Therefore, impacts of the Project would not have the potential to make a cumulatively considerable contribution, in combination with impacts from past, present, or reasonably foreseeable projects, to result in a cumulative impact.

With regard to generating disease vectors (Impact 4.8-7), oil and gas construction activities could disturb the Valley Fever vector or attract other disease vectors by allowing standing water, trash piles, or open containers to accumulate at the Project site, potentially resulting in a hazard to construction personnel or the general public. However, implementation of the MM 4.8-20 described above would reduce this impact to a less than significant level. Mitigation would reduce this impact to a level that would not combine with other projects, therefore, impacts of the Project would not have the potential to make a cumulatively considerable contribution, in combination with impacts from past, present, or reasonably foreseeable projects, to result in a cumulative impact.

Finding:

Without mitigation, the Project has the potential to contribute to significant and cumulative impacts to the hazards and hazardous materials. However, with implementation of the mitigation measures described below, these impacts will be reduced to a level that is less than significant.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to contribute to significant and cumulative impacts to the hazards and hazardous materials. Mitigation Measures **MM 4.8-1** through **MM 4.8-22**, as described above, along with the dust control and Valley Fever education and mask mitigation measures described in section II(3) of these findings related to Air Quality, the risk reduction mitigation measures described in section II(6) of these findings related to Geology and Soils, and the mitigation measures to maintain water quality described in section II(8) of these findings related to Hydrology and Water Quality, will be incorporated into the Project to reduce this impact to a level that is less than significant.

E. Cumulative Environmental Effects of the Proposed Project That Will Have a Significant Impact on the Environment.

None.

9. HYDROLOGY AND WATER QUALITY

A. Environmental Effects of the Project Found to Have No Impact on the Environment, or Have a Less Than Significant Impact on the Environment.

The Project will not place structures within a 100-year flood hazard area as mapped on a federal flood hazard boundary or flood insurance rate map or other flood hazard delineation map (Impact 4.9-7).

The Project will not contribute to inundation by seiche, tsunami, or mudflow (Impact 4.9-10).

B. Environmental Effects of the Project That Are Potentially Significant, but That Can Be Mitigated to Less Than Significant Levels.

Significant Effect:

Without mitigation, the Project has the potential to violate water quality standards or waste discharge requirements (Impact 4.9-1).

Description of Specific Impact:

Construction period activities that disturb soils and surface vegetation could mobilize sediment, debris and other site constituents that may be transported to surface water or percolate into groundwater due to storm event runoff, nuisance flows, or to a lesser extent by vehicle tracking, potentially causing exceedances of water quality standards if not controlled and therefore, there could be significant impacts. Moreover, well construction and reworking utilize and generate drilling fluids and mud that could be accidentally discharged to surface water or groundwater, potentially causing exceedances of water quality standards if not controlled and therefore, there could be significant impacts.

The potential for surface or subsurface discharges from well-construction and reworking activity could be significant without the implementation of mitigation measures. Drilling muds and fluids could also come into contact with groundwater prior to the installation of well casing and cement or in the event of a well failure during well construction or reworking. Discharges to groundwater could occur in the event of a well failure or blowout during construction. Under certain circumstances, drilling muds and fluids may be comingled with oil and or gas from hydrocarbon-bearing formations and contact subsurface aquifers before the well casing and cementing process is completed or in the event of a blowout. Also, surface spills or leaks could occur during the conveyance, mixing and application of fluids and other chemicals during construction. However, the relatively low volume of higher quality M&I water used for well plugging and abandonment, and the limited amount of potentially hazardous materials that could be purged during the closure process, reduces the risk that closure construction activities could significantly affect surface water or groundwater quality to less than significant with the mitigation.

Operational activities related to oil well and facility maintenance, oil or produced water conveyance by truck, the staging and completion of well stimulation treatments, including use of trucks, storage tanks, and pumps, and the conveyance and application of EOR-related steam or water, well reworking, and plugging and abandonment, could generate soils, debris or constituents that could be mobilized by stormwater runoff, or vehicle tracking, and reach surface water or percolate into groundwater and could result in significant impacts to water quality. Also, during Project operations, surface spills or leaks could occur from ruptured or leaking tanks, pipes, valves, hoses, and treatment and other process equipment used during operational oil, gas, produced water, M&I water, and chemical site treatment, conveyance, storage, and mixing and preparation activities. However, with mitigation, potential impacts would be less than significant.

As shown in EIR Table 4.9-27, under Project conditions, the use of produced water for EOR purposes is expected to increase from about 88,668 AF in 2012 to over 121,215 AF per year in 2035, or by 32,547 AF. EOR activities could result in unintended discharges to groundwater in the event of a casing or well failure, which might allow injected steam or produced water to migrate from breach locations to other water-bearing formations. Although produced water use for EOR generally cycles water from hydrocarbon-bearing formations to the surface for treatment and reinjection into the same or similar hydrocarbon-bearing formations, injection into a non-exempt underground source of drinking water (USDW) could significantly impact water quality in or near the affected zones.

EXHIBIT A

EIR Section 4.9, Hydrology and Water Quality, analyzes three projections of Project-related water use in 2035 based on the Applicant's demand estimates were developed to analyze a range of potential water demand and supply outcomes, as summarized in EIR Table 4.9-27. All of the scenarios assume that the amount of produced water generated by oil and gas exploration and production would increase by 38% by 2035 from 2012 levels. The three scenarios (Scenarios 1, 2, and 3) focus on potential variation in the amount of surface pond disposal, injection well disposal, and reuse of produced water that could occur under future conditions. Scenario 1 projects that 41,806 AF would be disposed to surface ponds in 2035, an increase of over 10,000 AF from 2012. Water quality impacts from the increased use of ponds that the CVRWQCB has determined to have affected groundwater quality would be significant without mitigation. Scenario 2 assumes that surface disposal volumes are reduced to 50% of 2012 levels, or to 15,112 AF by 2035. Potential water quality impacts from pond use would be lower than under Scenario 1, but not necessarily avoided. Scenario 3 assumes that surface disposal is reduced to 90% below 2012 levels or to 3,022 AF in 2035. Potential water quality impacts from pond use levels in Scenario 3 would be lower than under Scenario 1, and Scenario 2, but impacts to groundwater quality could still occur from the remaining disposal to unlined surface impoundments.

In lieu of ponds for disposal, oil and gas operators are increasingly discharging produced water to Class II injection wells. Injection well disposal could result in a discharge to groundwater in the event of a casing or well failure that allows injected materials to move from breach locations into other water-bearing formations. As the volume of waste disposal accumulates over time in specific zones, the discharge formation and portions of the well structure could become pressurized and subject to stresses that could increase the risk of well failure and groundwater impacts could increase. Without mitigation, waste disposal injection into a non-exempt USDW could significantly impact water quality in the affected zones.

Well stimulations in the Project Area have primarily consisted of hydraulic fracturing and acid matrix treatments. These technologies are expected to account for most forms of well stimulation in the future. Potential water quality impacts associated with well stimulations include unpermitted discharges of stimulation flowback fluids to drilling sumps or other surface impoundments, and unintended contact with groundwater due to well failures or casing leaks, as well as potential impacts from surface discharges, as discussed above. Although nearly 2,000 well stimulation treatments were performed in the Project Area during 2011 through 2014, there has never been a confirmed report of any well stimulation-related discharges to, or adverse effect, on surface or ground water although the potential exists for a release which could result in a significant impact.

In sum, significant impacts could occur during both construction and operations that could result in a violation of water quality standards waste discharge requirements. However, with the implementation of mitigation measures, construction and operational period impacts would be less than significant with mitigation.

Finding:

Without mitigation, the Project has the potential to violate water quality standards or waste discharge requirements. This impact will be reduced to a less than significant level by implementation of mitigation measures.

EXHIBIT A

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to violate water quality standards or waste discharge requirements. The following mitigation measures will be incorporated into the Project to reduce this impact to a level that is less than significant.

MM 4.9-1 The Applicant shall comply with all applicable federal, state, regional and local agency water quality protection laws and regulations, and commonly utilized industry standards, including (where applicable) obtaining coverage under the stormwater construction general permit and industrial general permit issued by the State Water Resources Control Board and complying with industry stormwater management standards for construction and operational activities. The applicant shall obtain all required permits from Division of Oil Gas and Geothermal Resources, and such permits shall include measures that will safeguard protected groundwater with appropriate casing, seal and related down-hole technical specifications.

MM 4.9-2 A. Oil and Gas Activities in Tier 1 shall comply with the following:

1. In areas subject to National Pollutant Discharge Elimination System stormwater permitting requirements, project applicants shall file a Notice of Intent to the State Water Resources Control Board to comply with the statewide General Permit for Discharges of Stormwater Associated with Construction Activities (Construction General Permit State Water Resources Quality Control Board Order No 2009-009-DWO) prior to undertaking all ground-disturbing activities greater than one acre and shall prepare and implement a Stormwater Pollution Prevention Plan for construction activities on the Project site in accordance with the Construction General Permit. For facilities requiring coverage under the Construction General Permit, the site specific Stormwater Pollution Prevention Plan shall include measures to achieve the following objectives: (1) all pollutants and their sources, including sources of sediment associated with construction activity are controlled; (2) all non-stormwater discharges are identified and either eliminated, controlled and treated, (3) site Best Management Practices are effective and result in the reduction or elimination of pollutants in stormwater discharges and authorized non-stormwater discharges from construction activity and (4) stabilization Best Management Practices to reduce or eliminate pollutants after construction are completed. The Stormwater Pollution Prevention Plan shall be prepared by a qualified preparer and shall include the minimum Best Management Practices required for the identified risk level. The Stormwater Pollution Prevention Plan shall include a construction site monitoring program that identified requirements for dry weather visual observations of pollutants at all discharge locations and, as appropriate, depending on the project risk level, sampling of site effluent and receiving waters. A qualified Stormwater Pollution Prevention Plan practitioner shall be responsible for implementing and all monitoring for the Best Management Practices as well as all inspection, maintenance and repair activities at the project site. If applicable, each project shall also implement and fully comply

with the Industrial Storm Water Permit (Order No 97-03-DWO) and Kern County Municipal Stormwater Permit (Order No 5-01-120). All plans under these requirements shall be submitted to Kern County Public Works for review and approval.

2. Any operator of a facility that meets the following requirements is not required to be covered by the Construction General Permit (State Water Regional Control Board Memorandum dated 5-18-2010):

    a. discharges of stormwater runoff from oil and gas exploration, production, processing or treatment operations or transmission facilities, including field activities or operations that may be considered construction activity;

        1. are not contaminated by contact with, or do not come into contact with, any overburden, raw material, intermediate products, finished product, byproduct or waste products;

        2. are only contaminated by or only come into contact with sediment; and

        3. pursuant to 40.C.F.R. § 122.26(c)(1) (iii) that do not contribute to a violation of a water quality standard.

Any change to this State Water Regional Control Board determination will require full compliance with National Pollutant Discharge Elimination System requirements.

3. Any operator not subject to National Pollutant Discharge Elimination System stormwater permitting requirements shall implement Best Management Practices during construction and operation. All selected practices shall be shown on a drainage implementation plan and self-certified as complete and feasible by a licensed professional qualified in drainage and flood control issues. The plan shall be submitted to the Kern County Planning and Community Development department.

    The following Best Management Practices shall be implemented and shown on the drainage implementation plan :

    a. Utilizing established facilities design, construction or similar standards as appropriate (e.g., American Society for the Testing and Materials (ASTM) American Petroleum Institute (API)).

    b. Implementation good housekeeping and maintenance practices:

        i. Preventing trash, waste materials and equipment from construction storm water.

ii. Maintaining wellheads, compressors, tanks and pipelines in good condition without leaks or spills.

iii. Designing and maintaining graded pads to not actively erode and discharge sediment

iv. Maintaining vehicles in good working order

v. Providing secondary containment for all above-ground storage tanks and maintaining such containment features in good operating condition

c. Implementing spill prevention and response measures

i. Utilizing preventative operating practices such as tank level monitoring, safe chemical handling and conducting regular inspections.

ii. Developing and maintaining a spill response plan

iii. Conducting spill response training for employees and have a process to ensure contractors have the necessary training

iv. Maintaining spill response equipment on site.

d. Implementing material storage and management practices:

i. Preventing unauthorized access

ii. Utilizing "run-on" and "run-off" control berms and swales

iii. Stabilizing exposed slopes through vegetation and other appropriate methods (e.g., hay bales or rolls).

B. Oil and gas activities outside Tier 1 shall comply with all applicable state and federal stormwater management laws. For any oil and gas activity outside Tier 1 that is not subject to state or federal stormwater management laws, regulations or general permits, the Applicant shall prepare a drainage plan that is designed to minimize runoff and minimize the potential for impeding or redirecting 100-year flood flows. The drainage plan shall be prepared in accordance with the Kern County Grading Code, the Green Code and approved by the Kern County Department of Public Works, Floodplain Management Section. The plan shall specify best management practices to prevent all construction pollutants from contacting stormwater, with the intent of keeping sedimentation or any

other pollutants from moving offsite and into receiving waters. The requirements of the Plan shall be incorporated into design specifications. Recommended best management practices for the construction phase must be shown on a drainage plan, and shall include the following:

a. Erosion Control -

1. Scheduling of construction activities to avoid rain events.

2. Limiting vegetation removal to the minimum required.

b. Sediment Control -

1. Secure stockpiling of soil.

2. Installation of a stabilized construction entrance/exit and stabilization of disturbed areas.

c. Non-stormwater Control -

1. Proper fueling and maintenance of equipment and vehicles.

2. Proper concrete handling techniques.

d. Waste and Material Management -

1. Properly managing construction materials, designating construction staging areas in or around the Project site.

2. Stockpiling and disposing of demolition debris, concrete, and soil properly.

3. Prompt removal and proper disposal of litter.

4. Proper disposal of demolition debris, concrete and soil.

5. Proper protections for fueling and maintenance of equipment and vehicles.

6. Provide and maintain adequate secondary containment to minimize or eliminate pollutants from moving offsite and into receiving waters.

e. Post-Construction Stabilization -

1. Ensuring the stabilization of all disturbed soils per revegetation or application of a soil binder.

C. If construction activities will alter federal jurisdictional waters, project applicants shall comply with the federal Clean Water Act Section 404 and Section 401 permitting and certification requirements. If construction activities will alter state waters, project applicants shall comply with California Department of Fish and Wildlife Streambed Alteration requirements.

MM 4.9-3 All drilling operations must either use a closed loop system to avoid discharges of drilling muds and fluids, or obtain coverage under the State Water Resources Control Board low threat discharge General Order (Waste Discharge Requirements General Order 2003-0003-DEW), obtain individual Waste Discharge Requirements issued by the Central Valley Regional Water Quality Control Board for the unit, or obtain coverage under a general order issued by the Central Valley Regional Water Quality Control Board applicable to drilling ponds. Any surface ponds or sumps must be cleared of fluids and muds in accordance with the State Water Resources Control Board general order, applicable Water Discharge Requirements and Division of Oil Gas and Geothermal Resources regulations. Compliance with the State Water Resources Control Board or Central Valley Regional Water Quality Control Board low-threat discharge orders or Water Discharge Requirements, if closed-loop systems are not used, and applicable laws, regulations and standards will reduce potential surface water quality impacts from contact with drilling muds or fluids during drilling and construction to less than significant levels.

After consultation with and approval by the Regional Water Board with jurisdiction over injection and groundwater, applicant shall provide for a tracer or some other reasonable method to allow well stimulation fluids to be distinguished from other fluids or chemicals for well stimulation permits. This could consist of an added tracer using an inert constituent that could be used to identify the presence of well stimulation fluids. Alternatively, it could be an intrinsic tracer, or some naturally occurring component that makes the well stimulation fluids chemically unique. Potential geochemical changes in the subsurface during injection or migration shall be considered. Use of a tracer shall be required to be disclosed to the public under Section 1788 of the SB 4 regulations. The regulations specifically require that the applicant require the composition and disposition of all well stimulation treatment fluids other than water, including "any radiological components or tracers injected into the well as part of the well stimulation treatment, a description of the recovery method, if any, for those components or tracers, the recovery rate, and specific disposal information for the recovered components or tracers a radiological component or tracer injected" (Section 1788 (15)).

For any well stimulation treatment activity, the applicant shall not conduct well stimulation treatment activity until the State Water Resources Control Board, in consultation with the Central Valley Regional Water Quality Control Board, has approved either a groundwater monitoring plan or exclusion from groundwater monitoring for a given well, consistent with the State Water Resources Control Board Model Criteria for Groundwater Monitoring in Areas of Oil and Gas Well Stimulation.

MM 4.9-4 For any activity for which Chapter 19.98 applies, the Applicant shall not conduct any Class II injection activity regulated by the Underground Injection Control program, including enhanced oil recovery activities that discharge into any underground source of current or future beneficial use groundwater, including drinking water, unless the aquifer has been exempted by the United States Environmental Protection Agency or injection has otherwise been authorized by the U.S. Environmental Protection Agency or by the Division of Oil Gas and

Geothermal Resources, in consultation and agreement by the State Water Resources Control Board, consistent with Public Resources Code 3131.

MM 4.9-5 For any activity for which Chapter 19.98 applies, the Applicant shall not discharge produced water into any surface disposal facility unless the facility has received the Waste Discharge Requirements from the Central Valley Regional Water Quality Control Board, or the need for Water Discharge Requirements has been waived by the Central Valley Regional Water Quality Control Board. As required by the SB 4 regulations, well stimulation treatment fluids and produced fluids from wells that have been stimulated cannot be stored, discharged, or disposed into surface ponds or pits.

MM 4.9-6 For any oil and gas activity within a Special Flood Hazard Area, the Applicant shall ensure that all constructed facilities are elevated or floodproofed in compliance with the requirements and standards found in the Kern County Floodplain Management Ordinance and Chapters 19.50 and 19.70 of the Kern County Zoning Code.

Significant Effect:

Without mitigation, the Project has the potential to substantially alter the existing drainage patter of the site or area, including through alteration of the course of a stream or river, in a manner that would result in substantial erosion or siltation on-site or off-site (Impact 4.9-3).

Description of Specific Impact:

Construction and operational activities could alter new well site topography and soil and vegetation conditions in a manner that could affect drainage patterns. Site preparation and the installation of wells and related equipment would also change the amount of impervious surfaces and runoff retention rates within new development areas. Without mitigation, such Project impacts are potentially significant.

Finding:

Without mitigation, the Project has the potential to substantially alter the existing drainage patter of the site or area, including through alteration of the course of a stream or river, in a manner that would result in substantial erosion or siltation on-site or off-site. With mitigation, this impact would be reduced to a less than significant level.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to substantially alter the existing drainage patter of the site or area, including through alteration of the course of a stream or river, in a manner that would result in substantial erosion or siltation on-site or off-site. Mitigation Measures **MM 4.9-1** through **MM 4.9-6**, described above, along with the groundwater mitigation measures described in section II(17) of these findings related to Utilities and Service Systems, will be incorporated into the Project and would reduce this impact to a less than significant level.

Significant Effect:

Without mitigation, the Project has the potential to substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner that would result in flooding on-site or off-site (Impact 4.9-4).

Description of Specific Impact:

Based on the conservative impact estimates, the potential development of 2,697 new production wells per year in the Project Area could disturb up to 4,856 acres per year. Over 90%, or 4,400 acres, of this disturbance would be located in existing Tier 1 areas that are currently subject to the highest level of existing disturbance from prior oil and gas exploration and production activities. New well development could disturb up to 298 acres in Tier 2 areas where agriculture is the predominant land use, and up to 158 acres in Tiers 3 through 5. Construction and operational activities, site preparation and installation of wells and related equipment could also change existing drainage patterns and runoff rates and result in on or offsite flooding.

Finding:

Without mitigation, the Project has the potential to substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner that would result in flooding on-site or off-site. With mitigation, this impact would be reduced to a less than significant level.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner that would result in flooding on-site or off-site. Mitigation Measures **MM 4.9-1** through **MM 4.9-6**, described above, along with the groundwater mitigation measures described in section II(17) of these findings related to Utilities and Service Systems, will be incorporated into the Project and would reduce this impact to a less than significant level.

Significant Effect:

Without mitigation, the Project has the potential to create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff (Impact 4.9-5).

Description of Specific Impact:

About 97.4% of the Project Area consists of Tier 1 lands (10.1%) in which oil and gas activities are the predominant land use, or Tier 2 lands (87.3%) where agriculture is the predominant use. In addition, 97% of the projected annual disturbance of up to 4,856 acres would occur in Tier 1 (4,400 acres) or Tier 2 (298 acres) areas. Urban-scale constructed stormwater drainage systems occur to a limited extent in Tier 1 and Tier 2 areas. Most drainage is managed on a site-specific basis in Project Area oilfields and agricultural locations. Potential Project-related development in Tiers 3 through 5 could produce runoff to existing or planned regional or constructed stormwater drainage systems. The extent of the potential new development would affect at most 0.3% of the acreage in Tiers 3 through 5 per year and would not generate new sources of runoff that could

significantly impact existing or planned drainage systems in these locations; therefore, impacts would be less than significant

Runoff water and potential polluted runoff risks would be managed by site-specific stormwater and runoff management measures. As discussed above, oil and gas operations that are located in close proximity with or on sites that are hydrologically connected to waters of the United States are generally subject to the requirements of the Construction General Permit and Industrial General Permit adopted by the SWRCB unless otherwise subject to exemption or waiver. These permits require strict compliance with water quality standards through the implementation of BMPs and other measures. The API and other sources of applicable industry engineering standards publish and regularly update oil and gas industry standards and criteria for stormwater and runoff management. With the implementation of MM 4.9-1 and MM 4.9-2, any potential impact would be further reduced.

Finding:

Without mitigation, the Project has the potential to create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff. With mitigation, this impact would be reduced to a less than significant level.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff. Mitigation Measures **MM 4.9-1** through **MM 4.9-6**, described above, will be incorporated into the Project and would reduce this impact to a less than significant level.

Significant Effect:

Without mitigation, the Project has the potential to otherwise substantially degrade water quality (Impact 4.9-6).

Description of Specific Impact:

The Basin Plan incorporates the SWRCB anti-degradation policy (SWRCB Resolution No. 68-16) and requires that "high-quality waters of the state" be maintained consistent with the maximum benefit to the people of the state. The purpose of this policy is to prevent or minimize degradation of high quality surface waters and groundwater. The Basin Plan also incorporates the SWRCB sources of drinking water policy (SWRCB Resolution No. 88-63), which provides that all surface and ground waters of the state "are considered to be suitable, or potentially suitable, for municipal or domestic water supply and should be so designated by the RWQCBs with the exception of" waters in which: (a) TDS levels exceed 3,000 mg/L (5,000 µmhos/cm electrical conductivity) and the aquifer cannot be reasonably expected to supply a public water system; (b) there is contamination, either by natural processes or by human activity (unrelated to a specific pollution incident), that cannot reasonably be treated for domestic use using either BMPs or best economically achievable treatment practices; or (c) the water source cannot provide sufficient water to supply a single well capable of producing an average, sustained yield of 200 gallons per day. The Basin Plan defines "groundwater" to mean "subsurface water that occurs beneath the ground surface in fully saturated zones within soils and other geologic formations."

EXHIBIT A

To implement the SWRCB sources of drinking water policy, the Basin Plan has designated all ground waters in the Tulare Lake region, including all groundwater in the Project Area, as suitable for municipal (MUN) beneficial uses unless specifically exempted by the CVRWCB and approved for exemption by the SWRCB. The MUN beneficial use includes drinking water and water for domestic purposes. As discussed in the Basin Plan, factors the CVRWQCB considers when making exemptions to the MUN ground water designation include the exception criteria listed in Resolution No. 88-63 (discussed above), and whether a specific aquifer has been exempted by the EPA under the UIC program. As shown on EIR Figure 4.9-11, based on the list of approved groundwater MUN designations in the Table II-2 of the Basin Plan, most of the Project Area groundwater is subject to a MUN beneficial use designation. The SWRCB sources of drinking water policy includes an exception for an aquifer that "is regulated as a geothermal energy producing source or has been exempted administratively pursuant to 40 Code of Federal Regulations, Section 146.4 for the purpose of underground injection of fluids associated with the production of hydrocarbon or geothermal energy, provided that these fluids do not constitute a hazardous waste under 40 CFR, Section 261.3" (SWRCB Resolution No. 88-63 [1988], as amended by Resolution No. 2006-0008 [2006]). State and federal agencies are currently updating the status of aquifer exemptions in the Project Area. EIR Figure 4-9.11 identifies the locations in the Project Area where the groundwater MUN beneficial use has been removed by the CVRWQCB in the Basin Plan.

Except for a limited number of injection wells that are the subject of the UIC program review and revision process being conducted by DOGGR, the SWRCB, and the EPA, and one case in which surface disposal was judicially determined to impair water supplies used in an adjacent orchard, oil and gas activities in the Project Area primarily affect groundwater with TDS levels substantially above 3,000 mg/L and that cannot be reasonably expected to supply a public water system. Groundwater in hydrocarbon-bearing zones has also been impacted by natural processes, including substantial deposits of oil, gas and other hydrocarbons and related constituents, and by human activity, including decades of prior oil and gas exploration and production activity. A substantial amount of the water that could be derived from hydrocarbon-bearing formation cannot reasonably be treated for domestic use. With the possible exception of the eight oilfield aquifers in the Project Area that DOGGR has determined were not clearly exempted under the UIC, aquifers subject to oil and gas injection, stimulation treatment or other discharges that may affect water quality would usually not meet the SDWA criteria for protection as an underground source of drinking water, or have been exempted in accordance with the UIC program.

The Basin Plan also discusses the March 1988 MOA between the SWRCB and DOGGR, under which DOGGR permits Class II injection wells in California subject to review and comment by the CVRWQCB and SWRCB. The Basin Plan indicates that the purpose of the MOA "is to ensure that the construction or operation of Class II injection disposal wells and the land disposal of wastewaters from oil, gas, and geothermal production facilities does not cause degradation of waters of the state." The Basin Plan further states that the MOA "provides a coordinated approach that results in a single permit satisfying the statutory obligations of both agencies."

The Basin Plan description of the MOA process, and the inclusion of specific MUN designation exception criteria in the 1988 SWRCB sources of drinking water policy, indicate that even if a MUN designation is applicable to most groundwater in the Project Area, permitted oil and gas activities would not degrade high-quality waters that could feasibly be used for MUN purposes and therefore the Project would have a less than significant impact to the water sources.

Finding:

Without mitigation, the Project has the potential to otherwise substantially degrade water quality. With mitigation, this impact would be reduced to a less than significant level.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to otherwise substantially degrade water quality. Mitigation Measures **MM 4.9-1** through **MM 4.9-6**, described above, along with the groundwater mitigation measures described in section II(17) of these findings related to Utilities and Service Systems, will be incorporated into the Project and would reduce this impact to a less than significant level.

Significant Effect:

Without mitigation, the Project has the potential to place within a 100-year flood hazard area structures that would impede or redirect flood flows (Impact 4.9-8).

Description of Specific Impact:

Without mitigation, Project-related oil and gas exploration and production activity, including new wells, infrastructure, and oil, gas, produced water and chemical treatment and storage facilities, could occur within Project Area land that is subject to a 100-year flood risk and impede or redirect flood flows in these areas. Flooding could also damage affected structures, or mobilize constituents of concern in floodwaters that are used in and gas exploration and production and could result in significant impacts.

Finding:

Without mitigation, the Project has the potential to place within a 100-year flood hazard area structures that would impede or redirect flood flows. With mitigation, this impact would be reduced to a less than significant level.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to place within a 100-year flood hazard area structures that would impede or redirect flood flows. Mitigation Measures **MM 4.9-1** through **MM 4.9-6**, described above, will be incorporated into the Project. Implementation of MM 4.9-1 through 4.9-6 would reduce the level of impacts to less than significant. These mitigations would requires that the applicant to comply with all applicable federal, state, regional, and local agency laws and regulations, and commonly utilized industry standards, including the Kern County Floodplain Management Ordinance, and KCGP and Zoning Code provisions related to floodplain risks. In addition, the applicant would have to implement management practices to avoid causing any adverse stormwater discharges and address potential impacts from potential oil and gas development in a 100-year floodplain.

Significant Effect:

Without mitigation, the Project has the potential to expose people or structures to a significant risk of loss, injury, or death involving flooding, including as a result of the failure of a levee or dam (Impact 4.9-9).

Description of Specific Impact:

About 93,400 acres of existing oil and gas administrative fields within the Project Area are subject to potential inundation in the event the Lake Isabella dam facilities, located in the Sierra Nevada mountains, 40 miles northeast of Bakersfield, experienced a catastrophic failure under full storage conditions. In the event of a catastrophic failure, released water would flow southeast along the Kern River towards Bakersfield and eventually flood downstream locations, including valley floor portions of the Eastern Subarea south of the river, most of the Central Subarea, and valley floor portions of the Western Subarea extending north along Interstate 5. Project-related oil and gas exploration and production activities, including new wells, infrastructure, and oil, gas, produced water, and chemical treatment and storage facilities, could occur and expose people or structures to a risk of harm within Project Area that is subject to inundation from a catastrophic failure of the Lake Isabella dam.

In 2008, the USACE analyzed the length of time that would elapse before potentially affected locations in the Project Area would be inundated to a depth of one foot. The analysis assumed that a catastrophic failure of the dam facilities would occur under full capacity conditions. The analysis shows that areas located near the eastern portion of the Kern River plain, and near Bakersfield, would reach one foot of inundation within 6 to 8 hours (Figure 4.9-19). One foot of inundation in the other potentially affected portions of the Project Area would occur over a period of from 8 to 36 hours.

Finding:

Without mitigation, the Project has the potential to expose people or structures to a significant risk of loss, injury, or death involving flooding, including as a result of the failure of a levee or dam. With implementation of the mitigation measures described below, this impact will be reduced to a less than significant level.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to expose people or structures to a significant risk of loss, injury, or death involving flooding, including as a result of the failure of a levee or dam. Mitigation Measures **MM 4.9-1** through **MM 4.9-6**, described above, along with the groundwater mitigation measures described in EIR Section 4.17, Utilities and Service Systems, will be incorporated into the Project and would reduce this impact to a less than significant level.

C. Environmental Effects of the Project That Cannot Be Mitigated to a Level Less Than Significant.

Significant Effect:

Without mitigation, the Project has the potential to substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there will be a net deficit in aquifer volume or a lowering of the local groundwater table level (Impact 4.9-2).

Description of Specific Impact:

The Project's potential groundwater impacts would be mitigated to less than significant levels if sufficient amounts of produced water otherwise subject to disposal were treated and reused to offset the consumption of M&I water for oil and gas exploration and production. The feasibility of achieving additional produced water reuse to offset oil and gas M&I water use in the Project

Area, depends on several factors, including produced water quality, treatment costs and requirements, the availability of conveyance capacity to route produced water to and from treatment facilities, and the availability of institutional mechanisms for managing produced water treatment and distribution. At present, the extent to which oilfield operators can increase produced water reuse and decrease M&I demand is uncertain. As a result, potential impacts to groundwater levels and aquifer volumes would be significant and unavoidable with mitigation.

Finding:

Without mitigation, the Project has the potential to substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there will be a net deficit in aquifer volume or a lowering of the local groundwater table level. Potential impacts to groundwater supply and recharge from produced water generation, injection, and well stimulation would be less than significant with the implementation of MM 4.9-1 through 4.9-6. However as discussed in EIR Section 4.17, Utilities and Service Systems, while MM 4.17-2 through MM 4.17-4 would encourage the additional reuse of produced water, the extent to which oilfield operators can increase produced water reuse and decrease M&I demand is uncertain. As a result, potential impacts to groundwater levels and aquifer volumes would be significant and unavoidable with mitigation.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there will be a net deficit in aquifer volume or a lowering of the local groundwater table level. The Project will incorporate and implement Mitigation Measures MM 4.9-1 through MM 4.9-6, discussed above, as well as the groundwater mitigation measures described in section II(17) of these findings related to Utilities and Services Systems, to reduce this impact to the extent feasible, but such measures will not reduce this impact to a less than significant level. Accordingly, this Project impact is significant and unavoidable.

D. Cumulative Environmental Effects of the Proposed Project That Will Have a Less Than Significant Impact on the Environment.

None

E. Cumulative Environmental Effects of the Proposed Project That Will Have a Significant Impact on the Environment.

Significant Effect:

Without mitigation, the Project has the potential to contribute to cumulative hydrology and water quality impacts (Impact 4.9-11).

Description of Specific Impact:

The ongoing production of oil and gas in Kern County, with the additional mitigation measures and other substantive and procedural requirements included in the proposed revisions to the County's oil and gas ordinances included in the Project, is not expected to result in significant impacts to hydrology and water other than to groundwater elevations and aquifer volumes. On a cumulative basis, these impacts would also be less than significant because the Project would not

incrementally contribute to water quality, erosion risks, flooding, and other hydrology impacts. Project Area aquifers are historically overdrafted, and recent monitoring data indicates that groundwater storage and elevations have been reduced to historically low levels in many Project Area locations during the current drought. Project Area aquifers are identified as high priority basins in the state CASGEM program and a sustainable level of groundwater use must be determined and implemented for the region by 2020 under recently enacted state law. Oil and gas M&I water use, and the increased level of M&I water demand projected for oil and gas activities by 2035, contributes to significant Project Area cumulative impacts to groundwater elevations and aquifer volumes.

Project impacts could result in cumulatively considerable impacts that would be considered significant. Implementation of MM 4.9-1 through MM 4.9-6, described above, would reduce potential cumulative impacts to water quality, erosion risks, flooding and other hydrologic resources to less than significant with mitigation. Although groundwater mitigation measures (as described in section II(17) of these findings related to Utilities and Service Systems) encourage the additional reuse of produced water, the extent to which oilfield operators can increase produced water reuse and decrease M&I demand is uncertain. As a result, cumulative impacts to groundwater would be significant and unavoidable.

Finding:

Without mitigation, the Project has the potential to contribute to cumulative hydrology and water quality impacts. This impact is significant and unavoidable, even with implementation of all feasible mitigation.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to contribute to cumulative hydrology and water quality impacts. The Project will incorporate and implement Mitigation Measures MM 4.9-1 through MM 4.9-6, discussed above, as well as the groundwater mitigation measures described in EIR Section 4.17, Utilities and Services Systems, to reduce this impact to the extent feasible, but such measures will not reduce this impact to a less than significant level. The County lacks jurisdiction and control over land conversions, and actions or approvals by other agencies that may cause cumulatively significant impacts to hydrology or water quality in the region; accordingly, this impact remains significant and unavoidable.

10. LAND USE AND PLANNING

A. Environmental Effects of the Project Found to Have No Impact on the Environment, or Have a Less Than Significant Impact on the Environment.

The Project will not conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the Project (Impact 4.10-2).

The Project will not conflict with any applicable habitat conservation plan or natural community plan (Impact 4.10-3).

B. Environmental Effects of the Project That Are Potentially Significant, but That Can Be Mitigated to Less Than Significant Levels.

Significant Effect:

Without mitigation, the Project has the potential to physically divide an established community (Impact 4.10-1).

Description of Specific Impact:

Established residential communities are dispersed throughout the Project Area on unincorporated County land. However, the majority of wells in Kern County would be constructed in Tier 1 areas (90%), which, by definition, are areas in which oil and gas activity is currently the primary land use. In contrast, residences are predominantly located on Tier 4 land. Although residences may be located on Tier 2 land, such residences are dispersed over large agricultural parcels and do not represent established communities. Finally, Tiers 3 and 5, while they might include residences, do not presently include residential communities. Therefore, there are no established communities located within Tiers 1, 2, 3, or 5.

Tier 4 areas make up less than 35,000 acres of the Project Area. Of this total, 26,160 acres are zoned for residential uses (Residential, Estate, or Mobile Park), the majority of which are clustered near the Metropolitan Bakersfield Planning Area in the Central and Eastern Subareas. However, because communities comprise a variety of uses, including commercial and industrial uses, the total acreage of 34,450 has been used to calculate impacts, even though, in some cases, these lands represent Commercial Highway areas or Industrial uses located outside of established communities.

Unlike a linear project, such as a proposed highway, which has the potential to create a physical barrier in the middle of an existing community, wells drilled in Tier 4 areas would be dispersed over 34,450 acres throughout the 3,700-square-mile Project Area. Drilling activities, such as those described in the Future Development Scenario, have historically existed in the Project Area and, in some cases, residential uses have been constructed near historic drilling operations, encroaching upon oil and gas operations. As a result, KCGP policies and zoning setbacks are intended to protect both residential uses as well as oil and gas drilling operations. Therefore, the disturbance of less than 1% of total Tier 4 land per year would not result in the physical division of an established community, and impacts under this criterion would be less than significant. In addition, mitigation measures would further ensure that impacts on adjacent land uses, including established communities, are reduced, and impacts during construction would remain less than significant.

Impacts during operation would be similar to construction; however, during operation, fewer pieces of equipment and fewer workers would be located onsite, which would result in fewer impacts to the community. In addition, wells are only viable so long as the reservoir remains viable in a particular location. Therefore, although it is estimated that 25 new wells would be constructed per year, a portion of the existing wells are likely to be decommissioned and abandoned each year throughout the life of the Project. Also, the acreage conversion conservatively assumes that all land disturbed during construction would be disturbed throughout the life of the well when, in reality, the permanent footprint of most wells would be less than what is projected. Even so, assuming that a total of 47 acres of land were to be permanently converted each year, in 25 years, a total of 1,175 acres would be disturbed. This total represents less than 3.5% of Tier 4 land in the Project Area as it exists today. Similar to construction, this disturbance would be dispersed throughout the Project Area and would not result in the physical division of an established community. Therefore, impacts during operation would be less than significant.

Finding:

Without mitigation, the Project has the potential to physically divide an established community, though this impact will be reduced to a less than significant through implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to physically divide and established community. The Project will incorporate the mitigation measures described in section II(1) of these findings related to Aesthetics and Visual Resources, section II(3) of these findings related to Air Quality, section II(4) of these findings related to Biological Resources, section II(12) of these findings related to Noise, section II(15) of these findings related to Recreation, and section II(17) of these findings related to Utilities and Service Systems, implementation of which will reduce this impact to a less than significant level.

C. Environmental Effects of the Project That Cannot Be Mitigated to a Level Less Than Significant.

None.

D. Cumulative Environmental Effects of the Proposed Project That Will Have a Less Than Significant Impact on the Environment.

The Project will not make a considerable contribution to cumulative land use impacts (Impact 4.10-4).

E. Cumulative Environmental Effects of the Proposed Project That Will Have a Significant Impact on the Environment.

None.

11. MINERAL RESOURCES

A. Environmental Effects of the Project Found to Have No Impact on the Environment, or Have a Less Than Significant Impact on the Environment.

The Project will not result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state (Impact 4.11-1).

The Project will not result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan (Impact 4.11-2).

B. Environmental Effects of the Project That Are Potentially Significant, but That Can Be Mitigated to Less Than Significant Levels.

None.

C. Environmental Effects of the Project That Cannot Be Mitigated to a Level Less Than Significant.

None.

D. Cumulative Environmental Effects of the Proposed Project That Will Have a Less Than Significant Impact on the Environment.

The Project will not contribute to cumulative mineral resources impacts (Impact 4.11-3).

E. Cumulative Environmental Effects of the Proposed Project That Will Have a Significant Impact on the Environment.

None.

12. NOISE

A. Environmental Effects of the Project Found to Have No Impact on the Environment, or Have a Less Than Significant Impact on the Environment.

The Project will not generate or expose persons to, or generate, excessive ground borne vibration or ground borne noise levels (Impact 4.12-2).

B. Environmental Effects of the Project That Are Potentially Significant, but That Can Be Mitigated to Less Than Significant Levels.

Significant Effect:

Without mitigation, the Project has the potential to generate or expose persons to noise levels in excess of standards established in the local general plan or noise ordinance or applicable standards of other agencies (Impact 4.12-1).

Description of Specific Impact:

Short-term construction noise impacts could result from land clearing and grading for well pads and work areas, construction/maintenance of access roads, construction of accessory facilities (including pipelines, electrical transmission lines, drilling sumps or temporary storage tanks), transporting the drilling rig, associated equipment, workers and materials to the well pad site, well drilling, and construction equipment operations. Due to the complexity of drilling and the hazards associated with leaving a well unattended during the drilling process, drilling operations are typically conducted 24 hours a day. Depending upon the depth of the formation, some wells may take less than 24 hours to drill, while some wells may take up to 60 days in deeper formations.

Although construction noise that occurs between 6:00 AM and 9:00 PM on weekdays, and between 8:00 AM and 9:00 PM on weekends is exempt from restrictions, after that time construction noise cannot be audible within 150 feet of the construction site and 1,000 feet of an occupied residential building. If construction were to be conducted 24 hours per day, all activities described in EIR Table 4.2-8 would be audible at 150 feet. In accordance with the Kern County Zoning Ordinance, setbacks for oil and gas wells currently are 150 feet from residential dwellings and hospitals and 300 feet from places of assembly, including schools and churches. These land uses are considered sensitive noise receptors. If oil and gas activities were to occur within 150 feet of a residence or 300 feet of a place of assembly, construction noise levels could exceed audible levels if construction were to occur outside of the 6:00 AM to 9:00 PM framework. In

addition, construction noise could exceed the County's 65 dBA CNEL threshold at residences and places of assembly, even if the current setbacks were observed. Therefore, even with the current setback requirements, construction noise impacts could be significant if construction were to occur between 9:00 PM and 6:00 AM.

According to Implementation Measure 4 of the KCGP Noise Element, commercial and industrial uses or operations need to be designed or arranged so that they will not subject residential or other noise sensitive land uses to exterior noise levels in excess of 65 dBA CNEL. EIR Table 4.12-9 demonstrates that noise from electric power generation attenuates to less than the 65 dB standard by a distance of 70 feet from the source. Accordingly, based on the current setback requirements for oil and gas activities in Kern County for residential dwellings and hospitals (150 feet), and places of assembly, including schools and churches (300 feet), well operations using electrical power would comply with the established noise level requirement. However, EIR Table 4.12-9 shows that noise from diesel power generation attenuates to less than the 65 dB standard by a distance of 190 feet from the source, indicating that well operations using diesel power may not comply with the standard near residences and hospitals with a 150 foot setback. Therefore, impacts due to operational noise could be significant.

Finding:

Without mitigation, the Project has the potential to generate or expose persons to noise levels in excess of standards established in the local general plan or noise ordinance or applicable standards of other agencies. This Project impact will be reduced to a less than significant level through implementation of mitigation measures.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to generate or expose persons to noise levels in excess of standards established in the local general plan or noise ordinance or applicable standards of other agencies. The following mitigation measures will be incorporated into the Project to reduce this impact to a level that is less than significant:

MM 4.12-1 Construction:

The Site Plan Application shall include a Site Vicinity Figure showing the location of any sensitive receptor(s) within the distances listed in the construction noise setbacks table, as shown below, of the construction site (potential impact area) for the proposed new well or other ancillary facility or equipment (excluding pipelines). This Figure need not be prepared for Tier 1 areas unless a sensitive receptor is located within 270 feet of a construction site inside the Tier 1 area.

a. If there are no sensitive noise receptors within this potential impact area, then no construction mitigation measures shall be required.

b. If there are sensitive human noise receptors within the potential impact area, then additional information must be provided showing the type of equipment being used and the noise contours with levels not exceeding 65 dB DNL at the nearest exterior wall of the sensitive receptor or more than 1 dB DNL higher than the ambient noise levels, if in excess of 65 dB DNL. If noise levels are shown to exceed 65 dB DNL or more than 1 dB DNL higher than the ambient noise levels in excess of 65 dB DNL, then one or more of the following mitigation measures shall be taken:

1. Placement of a temporary sound attenuation wall(s) shall be placed at the optimal distance to the sensitive receptor, as determined by an acoustical expert.

2. Construction of a temporary berm shall be placed at the optimal distance to the sensitive receptor, as determined by an acoustical expert.

3. Modification of equipment to reduce noise impacts.

4. Implementation of a quiet mode drilling plan or other sound reduction technology or practices as documented in a report submitted to the County.

5. Arranging for the voluntary, temporary relocation of the occupants of the sensitive receptor during the construction period.

6. Use the following setback distances for the activities specified:

Construction Noise Setbacks

Activity	Setback Distance (feet)
Drilling (Well Advancement)	1,550
Drilling (Pull Out Of Well/Borehole)	820
Large-Scale Exploratory Drilling[1]	3,270
Well Workover	930
Hydraulic Fracturing	1,090

Note:
[1]Kenai Drill Rig #7

Information submitted with the Site Plan Application must detail the combination and methods used to determine the level of reduction and shall not exceed 65 dB DNL or any ambient levels in excess of 65 dB DNL or more than 1 dB DNL higher than the ambient noise levels, if in excess of 65 dB DNL.

MM 4.12-2 Operation:

New oil and gas wells shall be a minimum 210 feet from the closest sensitive receptor. Geophysical testing methods using vibroseis vehicles to generate sound waves shall be a minimum 150 feet from the closest occupied building, water well, sewer system, and septic tank. Geophysical testing methods using shotholes that employ explosives shall be a minimum 300 feet from the closest occupied building, water well, sewer system, and septic tank, and shall be in full compliance with all laws governing explosives.

Significant Effect:

Without mitigation, the Project has the potential to cause a substantial temporary or periodic increase in ambient noise levels in the Project vicinity above levels existing without the Project (Impact 4.12-3).

Description of Specific Impact:

A substantial permanent increase in ambient noise levels would occur if noise levels increase in excess of 65 dBA CNEL. The EIR's analysis examined operational noise levels because they would be long-term in nature. At a distance of 70 feet from a well, noise from electric-powered oil and gas wells would attenuate to a level of 60 dBA, which is less than 65 dBA CNEL. However, noise from diesel powered oil and gas wells would not attenuate to a level of 60 dBA CNEL until 190 feet from a well. A house or hospital could be located within 150 feet of a well; therefore, there is the potential for a substantial permanent increase in ambient noise levels in excess of the 65 dBA standard in the vicinity of sensitive noise receptors and therefore impacts could be significant.

Finding:

Without mitigation, the Project has the potential to cause a substantial temporary or periodic increase in ambient noise levels in the Project vicinity above levels existing without the Project. These impacts will be mitigated to a level that is less than significant.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to cause a substantial temporary or periodic increase in ambient noise levels in the Project vicinity above levels existing without the Project. Mitigation Measure **MM 4.12-2**, described above, will be incorporated into the Project to reduce this impact to a level that is less than significant.

Significant Effect:

Without mitigation, the Project has the potential to cause a substantial temporary or periodic increase in ambient noise levels in the Project vicinity above levels existing without the Project (Impact 4.12-4).

Description of Specific Impact:

Oil and gas well development would result in temporary increases in ambient noise levels in the vicinity. Noise levels would fluctuate depending on the phase of construction, equipment type and duration of use, and distance between the noise source and receptor. Although construction

noise conducted between 6:00 AM and 9:00 PM on weekdays and 8:00 AM and 9:00 PM on weekends is exempt from restrictions, after that time it is prohibited from being audible within 150 feet of the construction site and 1,000 feet of an occupied residential building. Based on available data, well pad preparation, drilling, and hydraulic fracturing would be audible within 150 feet of the equipment. Hydraulic fracturing would be audible at 1,000 feet from the pump trucks and well pad preparation and drilling could be audible at 1,000 feet. Based on the fact that sensitive noise receptors could hear construction noise and these noise levels would be in excess 65 dBA CNEL, particularly if drilling occurs all night, construction noise is considered a significant adverse impact if located near one or more sensitive noise receptors (e.g., a home, hospital, school, church, or other public assembly facility). This impact is potentially significant.

Finding:

Without mitigation, the Project has the potential to cause a substantial temporary or periodic increase in ambient noise levels in the Project vicinity above levels existing without the Project. With implementation of mitigation measures, this impact will be reduced to a level that is less than significant.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to cause a substantial temporary or periodic increase in ambient noise levels in the Project vicinity above levels existing without the Project. Mitigation Measure **MM 4.12-1**, described above, will be incorporated into the Project to reduce this impact to a level that is less than significant.

Significant Effect:

Without mitigation, the Project has the potential to expose people residing or working within that part of the Project Area located within an airport land use compatibility plan to excessive noise levels (Impact 4.12-5).

Description of Specific Impact:

Future oil and gas-related development activities could occur in the vicinity of any of the public use airports identified in the Kern County ALUCP. Noise levels generated during construction or operations of oil and gas facilities at specified distances exceed 65 dB CNEL. Oil and gas activities could only occur at the appropriate setback distance, but could be as close as 50 feet from an industrial facility. If oil and gas facilities were built or operated within the 65 decibel CNEL contours of Meadows Field or the Bakersfield Municipal Airport, then the combined noise levels of aircraft take-offs and landings and oil and gas activities have the potential to exceed County acceptable noise levels for workers and/or residents that are in proximity to both the public airport and potential oil and gas activities, depending on the location of the well and the residence or facility. Therefore, there could be significant impacts.

Finding:

Without mitigation, the Project has the potential to expose people residing or working within that part of the Project Area located within an airport land use compatibility plan to excessive noise levels. With implementation of mitigation measures, this impact will be reduced to a level that is less than significant.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to expose people residing or working within that part of the Project Area located within an airport land use compatibility plan to excessive noise levels. Mitigation Measures **MM 4.12-1** and **MM 4.12-2**, described above, will be incorporated into the Project to reduce this impact to a level that is less than significant.

Significant Effect:

Without mitigation, the Project has the potential to expose people residing or working within that part of the Project Area located within the vicinity of a private airstrip to excessive noise levels (Impact 4.12-6).

Description of Specific Impact:

Oil and gas development activities authorized under the Project could occur in proximity to a private airstrip. Given that oil and gas activities authorized under the Project would, at a minimum, have to comply with current setback requirements, an industrial facility could be within 50 feet or a residence could be with 150 feet. Noise levels at these distances under some circumstances could exceed acceptable noise levels. The combined noise levels of aircraft take-offs and landings and oil and gas activities have the potential to exceed acceptable noise levels for workers and/or residents that are in proximity to both a private airport and potential oil and gas activities, depending on the location of the well and the residence or facility and therefore impacts could be significant.

Finding:

Without mitigation, the Project has the potential to expose people residing or working within that part of the Project Area located within the vicinity of a private airstrip to excessive noise levels. With implementation of mitigation measures, this impact will be reduced to a level that is less than significant.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to expose people residing or working within that part of the Project Area located within the vicinity of a private airstrip to excessive noise levels. Mitigation Measures **MM 4.12-1** and **MM 4.12-2**, described above, will be incorporated into the Project to reduce this impact to a level that is less than significant.

C. Environmental Effects of the Project That Cannot Be Mitigated to a Level Less Than Significant.

None.

D. Cumulative Environmental Effects of the Proposed Project That Will Have a Less Than Significant Impact on the Environment.

Significant Effect:

Without mitigation, the Project has the potential to contribute to cumulative noise impacts (Impact 4.12-7).

Description of Specific Impact:

Since oil and gas activities could occur anywhere in the Project Area, the combined noise levels from the Project and existing or reasonably foreseeable projects depend on the proximity of oil and gas activities to other noise sources at a specific location. Noise generated from construction of certain types of wells authorized under the Project, conservatively assuming use of the largest exploratory deep drilling rig (Kenai Rig), could be in excess of 65 dBA CNEL up to 3,000 feet from a construction site and up to 190 feet from a diesel-powered operating well. Therefore, significant noise impacts would occur if there are sensitive noise receptors within 3,000 feet of the construction of a well and 190 feet of an operating diesel-powered well. Other projects with construction or operations occurring concurrently with construction or operations of a well would also contribute to noise levels experienced by nearby sensitive noise receptors.

Oil and gas activities subject to Project authorization would have to implement MM 4.12-1 if there are sensitive human noise receptors within 3,000 feet of a well to ensure that the noise levels do not exceed 65 dBA at the nearest exterior wall of the nearest sensitive receptor or more than 1 dBA higher than the ambient noise levels, if in excess of 65 dBA. Cumulatively significant noise impacts could occur even if noise levels associated oil and gas activities are under 65 dBA, depending on the location of another nearby project, its noise levels, and the distance to a sensitive noise receptor.

Finding:

Without mitigation, the Project has the potential to make a considerable contribution to cumulative noise impacts. With implementation of mitigation measures, this impact will be reduced to a level that is less than significant.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to make a considerable contribution to cumulative noise impacts. Mitigation Measures **MM 4.12-1** and **MM 4.12-2**, described above, will be incorporated into the Project to reduce this impact to a level that is less than significant.

E. Cumulative Environmental Effects of the Proposed Project That Will Have a Significant Impact on the Environment.

None.

13. POPULATION AND HOUSING

A. Environmental Effects of the Project Found to Have No Impact on the Environment, or Have a Less Than Significant Impact on the Environment.

The Project will not induce substantial population growth in an area, either directly or indirectly (Impact 4.13-1).

The Project will not displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere (Impact 4.13-2).

The Project will not displace substantial numbers of people, necessitating the construction of replacement housing elsewhere (Impact 4.13-3).

B. Environmental Effects of the Project That Are Potentially Significant, but That Can Be Mitigated to Less Than Significant Levels.

None.

C. Environmental Effects of the Project That Cannot Be Mitigated to a Level Less Than Significant.

None.

D. Cumulative Environmental Effects of the Proposed Project That Will Have a Less Than Significant Impact on the Environment.

The Project will not contribute to cumulative population and housing impacts (Impact 4.13-4).

E. Cumulative Environmental Effects of the Proposed Project That Will Have a Significant Impact on the Environment.

None.

14. PUBLIC SERVICES

A. Environmental Effects of the Project Found to Have No Impact on the Environment, or Have a Less Than Significant Impact on the Environment.

None.

B. Environmental Effects of the Project That Are Potentially Significant, but That Can Be Mitigated to Less Than Significant Levels.

Significant Effect:

Without mitigation, the Project has the potential to cause substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services, which include: fire protection, police protection, schools, parks, and other public facilities (Impact 4.14-1).

Description of Specific Impact:

Given the history of oil and gas development within Kern County, any nominal increase in the oil and gas workforce in the future would likely be comprised of local Kern County residents. As such, the nominal population growth would not stress certain existing public services, such as

schools and libraries; however, the anticipated new oil and gas activity may strain services, such as police and fire services, in the vicinity of the new oil and gas wells.

Fires could occur at oil and gas facilities because of the hazardous materials that could be located at such facilities. Both Kern County and City of Bakersfield have hazardous materials teams. However, with the projected increase in the number of oil and gas facilities where many different types of chemicals and/or large quantities of oil or gas are present, significant impacts could occur if the hazardous material response teams do not have sufficient firefighting materials or equipment to extinguish the type of fires that could be associated with the types of materials that could be at an oil and gas facility.

Although police service demands would not increase from the implementation of the proposed Project, new oil and gas exploration and production activities could increase the level of demand for police protection services from the Sheriff's Office, specifically in rural areas, because new oil and gas activity could attract vandals or create security risks requiring police response. Since the majority of new oil and gas activities would likely be in rural areas, there could be some increase in demands on the Rural Crimes Unit of the Kern County Sheriff's Department. This impact could be significant.

The Project would not substantially affect enrollment in local schools, and school impacts are considered less than significant. Moreover, since population growth is anticipated to be nominal as a result of the implementation of the proposed Project, the Project would not have a significant impact on emergency services or to other public facilities, such as or postal services or libraries. Therefore, impacts on other public facilities are considered to be less than significant.

Finding:

Without mitigation, the Project has the potential to result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services, which include: fire protection, police protection, schools, parks, and other public facilities. Mitigation measures will be implemented to reduce this impact to a level that is less than significant.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to The Project will result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services. The following mitigation measures will be incorporated into the Project to reduce this impact to a level that is less than significant:

MM 4.14-1 Applicant shall contribute to funding the acquisition of a Combination Walk-in/Non-Walk-in Industrial Firefighting vehicle capable of responding with a minimum of five firefighters with the tools and equipment necessary for industrial firefighting and rescue. Each Applicant shall pay $150 per well on each Oil and Gas Conformity Review permit until the total cost of the vehicle purchase is reached, not to exceed $850,000, to be paid through mitigation fees

on Oil and Gas Conformity Review permits. Subsequent Applicants shall not be subject to this mitigation measure.

MM 4.14-2 Applicant shall provide funding in the amount of $425 per Oil and Gas Conformity Review permit issued for the Sheriff's Rural Crime Unit. Funding shall be used for one Sergeant, two Senior Deputies (investigators), three Deputies, One Support Technician (clerical), and helicopter usage, based on the amount of funding provided by this permit mitigation fee. The fee shall be in addition to any general funds received by the Sheriff's Department. The Sheriff's department shall annually report on the expenditure of funds for the Rural Crimes Unit, including incident reports and response times. If other sources of funding for the Rural Crimes Unit are secured, then the mitigation fee amount shall be adjusted to pay only the gap between actual costs and funding provided from other sources. The first 100 permits issued in a calendar year to certified small producers under the Small Producers Program included in the Project shall not pay this mitigation fee based on their very low proportionate use of the Rural Crimes Unit (100 permits are estimated to generally be less than 5% of the permits issued annually).

C. Environmental Effects of the Project That Cannot Be Mitigated to a Level Less Than Significant.

None.

D. Cumulative Environmental Effects of the Proposed Project That Will Have a Less Than Significant Impact on the Environment.

Significant Effect:

Without mitigation, the Project has the potential to make a considerable contribution to cumulative public service impacts (Impact 4.14-2).

Description of Specific Impact:

Overall, the proposed Project would cumulatively contribute to an increased demand for fire, police, schools, and other public facilities and, therefore, could be significant impacts. While the proposed Project's contribution to growth in the region would be nominal, cumulative projects that would occur under the regional plans would add to the cumulative demand for such services through the introduction of new residents and users of the proposed facilities. However, this growth has been considered and accounted for in the KCGP, the MBGP, and the Kern Council of Governments Regional Transportation Plan/Sustainable Communities Strategy. Additionally, in accordance with the KCGP, Public Services and Facilities, Policies 9 and 16, new developments would be required to pay a pro rata share of the local cost for the expansion of services under the Public Facilities Mitigation Program. Developers would be required to assume full responsibility for costs incurred in service extensions or improvements that are required to serve their project(s). Therefore, new projects would have to pay for the extension or improvement of fire, police, or other services to serve a specific development, if those services are not available and to ensure service objectives are met. Additionally, the Project Area is located in an area that is served by all public service providers and the proposed Project's incremental impacts can be sufficiently mitigated (MM 4.14-1 and MM 4.14-2, described above); therefore, the Project's incremental

effect on public services is not cumulatively considerable and would be considered less than significant with mitigation.

Finding:

Without mitigation, the Project has the potential to make a considerable contribution to cumulative public service impacts. With mitigation, this cumulative impact will be reduced to a level that is less than significant.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to make a considerable contribution to cumulative public service impacts. Mitigation Measures **MM 4.14-1** and **MM 4.14-2**, described above, will be incorporated into the Project to reduce this impact to a level that is less than significant.

E. Cumulative Environmental Effects of the Proposed Project That Will Have a Significant Impact on the Environment.

None.

15. RECREATION

A. Environmental Effects of the Project Found to Have No Impact on the Environment, or Have a Less Than Significant Impact on the Environment.

The Project will not result in increased use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration would occur or be accelerated (Impact 4.15-1).

The Project will not include recreational facilities or require construction or expansion of recreational facilities that might have an adverse physical effect on the environment (Impact 4.15-2).

B. Environmental Effects of the Project That Are Potentially Significant, but That Can Be Mitigated to Less Than Significant Levels.

None.

C. Environmental Effects of the Project That Cannot Be Mitigated to a Level Less Than Significant.

None.

D. Cumulative Environmental Effects of the Proposed Project That Will Have a Less Than Significant Impact on the Environment.

The Project will not contribute to cumulative recreation impacts (Impact 4.15-3).

E. Cumulative Environmental Effects of the Proposed Project That Will Have a Significant Impact on the Environment.

None.

16. TRANSPORTATION AND TRAFFIC.

A. Environmental Effects of the Project Found to Have No Impact on the Environment, or Have a Less Than Significant Impact on the Environment.

None.

B. Environmental Effects of the Project That Are Potentially Significant, but That Can Be Mitigated to Less Than Significant Levels.

Significant Effect:

Without mitigation, the Project has the potential to conflict with an applicable plan, ordinance, or policy establishing measures of effectiveness for the performance of the circulation system, including, but not limited to, intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit (Impact 4.16-1).

Description of Specific Impact:

The addition of Project-related traffic to Year 2015 conditions would contribute to 19 of the 101 intersections evaluated as operating below acceptable LOS (at LOS E or worse for intersections located within the non-metropolitan region of Kern County and LOS D or worse for intersections located within the Bakersfield and Kern County metropolitan areas and for Caltrans facilities). These impacts would be significant. Moreover, the addition of Project-related traffic to Year 2015 conditions would contribute to 30 of the 462 roadway segments evaluated as operating below acceptable LOS (at LOS E or worse for roadways located within the non-metropolitan region of Kern County, and LOS D or worse for roadways located within the Bakersfield and Kern County metropolitan areas and for Caltrans facilities (Appendix W). These impacts would be significant. Finally, Project-related traffic could contribute to the degradation of pavement conditions and the service life for roadways in the Project Area, which could be a significant impact.

Finding:

Without mitigation, the Project has the potential to conflict with an applicable plan, ordinance, or policy establishing measures of effectiveness for the performance of the circulation system, including, but not limited to, intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit. This impact would be reduced to a level that is less than significant by implementing the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to conflict with an applicable plan, ordinance, or policy establishing measures of effectiveness for the performance of the circulation system, including, but not limited to, intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit. The following mitigation measures will be incorporated into the Project to reduce this impact to a level that is less than significant:

MM 4.16-1 The Applicant shall pay a road maintenance mitigation fee of $1,500 per permit for new wells to pay for roadway maintenance and related improvements to address wear and tear on roads caused by oil and gas industry traffic. The Kern County Public Works Department shall annually report on the expenditure of funds from the Oil and Gas Roadway Maintenance Fee. Expenditures from the fund shall be as determined by the Roads Commissioner, using as a reference the list of roadways identified in the Environmental Impact Report as being used for traffic by the oil and gas industry. If Kern County secures funding from a sales tax dedicated to transportation funding, then the amount of the traffic mitigation fee shall be re-evaluated at the time the County becomes a self-help county. The first 100 permits issued in a calendar year to certified small producers under the Small Producers Program included in the Project shall not pay this mitigation fee based on their very low proportionate roadway use (100 permits are estimated to generally be less than 5% of the permits issued annually).

MM 4.16-2 Applicants who are using an arterial or collector, or Caltrans route, for access to a construction site, shall consult with the Kern County Public Works Department to determine if a Construction Traffic Control Plan is required based on the timing and volume of larger vehicle rigs and the volume of traffic to address public safety and congestion management. If a Plan is required, the Applicant shall prepare and submit a Construction Traffic Control Plan to the Kern County Public Works Department and to the California Department of Transportation (District 9 office) for approval. The Construction Traffic Control Plan must be prepared in accordance with both the California Department of Transportation Manual on Uniform Traffic Control Devices and Work Area Traffic Control Handbook and shall include, but not be limited to, the following issues:

a. Timing of deliveries of heavy equipment and building materials.

b. Placing temporary signing, lighting, and traffic control devices as necessary to indicate the presence of heavy vehicles and construction traffic.

c. Determining the need for construction work hours and arrival/departure times outside peak traffic periods.

d. Ensuring access for emergency vehicles to the Project site.

e. Any temporary closure of travel lanes or disruptions to street segments and intersections during well development.

f. Maintaining access to adjacent property.

Significant Effect:

Without mitigation, the Project has the potential to conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures or other standards established by the County congestion management agency or adopted County threshold for designated roads or highways (Impact 4.16-2).

Description of Specific Impact:

The Circulation Element of the KCGP states that the design LOS for Kern County is LOS C. The minimum LOS for conformance with the KCGP is LOS D. The Kern COG CMP has established LOS E as the minimum system-wide LOS traffic standard for CMP corridors. With the addition of Project-related construction traffic, under the future condition, a number of CMP corridors would operate at LOS E or below. However, these roadways would also operate below acceptable LOS even without Project-related traffic. Therefore, operation of these corridors below acceptable LOS is not considered an impact of the Project; however because the LOS of these corridors is impaired, implementation of MM 4.16-2 would reduce Project impacts to existing levels that would represent a less than significant impact.

Finding:

Without mitigation, the Project has the potential to cause significant impacts by conflicting with an applicable congestion management program, including, but not limited to LOS standards and travel demand measures or other standards established by the County congestion management agency or adopted County threshold for designated roads or highways. This impact would be reduced to a level that is less than significant by implementing the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to cause significant impacts by conflicting with an applicable congestion management program, including, but not limited to LOS standards and travel demand measures or other standards established by the County congestion management agency or adopted County threshold for designated roads or highways. Mitigation Measure **MM 4.16-2** will be incorporated into the Project to reduce this impact to a level that is less than significant.

Significant Effect:

Without mitigation, the Project has the potential to cause changes in air traffic patterns, including either an increase in traffic levels or a change in location, that result in substantial safety risks (Impact 4.16-3).

Description of Specific Impact:

If an oil or gas well permit applicant would require a vertical structure more than 200 feet in height (e.g., transmission line poles, vertical pump jack), the applicant would be required to comply with FAA Advisory Circular 70/7460-1, Obstruction Lighting/Marking requirements. If the FAA determines that the structure would result in a potential obstruction unless reduced to a specified height, the applicant would be required to work with the FAA to resolve any adverse effects on aeronautical operations. Numerous public, military, and private airports are located within the Project Area. Section 4.8, Hazards and Hazardous Materials includes mitigation measures, which require applicants to comply with the applicable airport land use compatibility plan if their operations would be located within an airport area of influence. Implementation of these mitigation measures would ensure that the Project is consistent with Section 3.3.4 of the Kern County ALUCP. The mitigation measures would also ensure that the Project would not impact operations of aircraft using Kern County airspace, and that all required Project

components shall have lighting and markings required by the FAA so as not to create a hazard to air navigation

Finding:

Without mitigation, the Project has the potential to cause changes in air traffic patterns that result in substantial safety risks. These impacts will be reduced to a less than significant level by implementation of mitigation measures.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to cause changes in air traffic patterns that result in substantial safety risks. The Project will incorporate the mitigation measures described in EIR Section 4.8, Hazards and Hazardous Materials, implementation of which will reduce this impact to a level that is less than significant.

Significant Effect:

Without mitigation, the Project has the potential to substantially increase hazards due to a design feature or incompatible uses (Impact 4.16-4).

Description of Specific Impact:

Well development (which includes well stimulation activities), would continue to require the delivery of heavy construction equipment using area roadways. The use of oversized vehicles during construction can create a hazard to the public by limiting motorist views on roadways and by the obstruction of space and, therefore, could have a significant impact. The introduction of construction-related traffic would have the potential to increase accident rates and could result in significant impacts; however, with the implementation of MM 4.16-2, as discussed above, would also require this information be provided in the Construction Traffic Control Plan for Kern County approval and would reduce this potential impact to less than significant level.

Finding:

Without mitigation, the Project has the potential to substantially increase hazards due to a design feature or incompatible uses. These impact will be reduced to a level that is less than significant through implementation of mitigation measures.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to substantially increase hazards due to a design feature or incompatible uses. The incorporation of the Mitigation Measure 4.16-2, described above, will reduce this impact to a level that is less than significant.

Significant Effect:

Without mitigation, the Project has the potential to result in inadequate emergency access (Impact 4.16-5).

Description of Specific Impact:

Increased Project-related traffic could cause a significant increase in congestion or affect the existing and future LOS on roads, which could indirectly affect emergency access. While the Project is not expected to require closures of public roads, which could inhibit access by emergency vehicles, during well development, heavy construction-related traffic could interfere with emergency response or emergency evacuation procedures in the event of an emergency, such as a wildfire or a chemical spill. Heavy construction-related traffic could also interfere with emergency response to other NOG-related uses in the vicinity and, therefore, could represent a significant impact

Finding:

Without mitigation, the Project has the potential to result in inadequate emergency access. This impact will be reduced to a level that is less than significant by incorporation of mitigation measures, as described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to result in inadequate emergency access. Mitigation Measure **MM 4.16-2** will be incorporated into the Project to reduce this impact to a level that is less than significant.

Significant Effect:

Without mitigation, the Project has the potential to conflict with adopted policies, plans or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities (Impact 4.16-6).

Description of Specific Impact:

Kern County operates KRT, which operates daily bus routes within the unincorporated communities of Buttonwillow, Lamont, Kern River Valley, Frazier Park, Rosamond, and Mojave. In western Kern County, bus routes connect Bakersfield to various cities including Delano, Wasco, Taft, Lebec, and Frazier Park (KRT 2014). KRT also provides inter-city service between Delano/McFarland/Wasco/Shafter/ Bakersfield, Lamont/Bakersfield, Lake Isabella/Bakersfield, Frazier Park/Bakersfield, California City/Mojave/Rosamond/Lancaster/Palmdale, Lost Hills/Bakersfield, and Taft/Bakersfield. To ensure Project-related traffic would not impact roadways utilized by the KRT, MM 4.16-2 requires that a Construction Traffic Control Plan be prepared, these mitigation measures would ensure that Project-related traffic does not impact KRT operations.

Finding:

Without mitigation, the Project has the potential to conflict with adopted policies, plans or programs supporting alternative transportation. These impacts will be reduced to a level that is less than significant through implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to conflict with adopted policies, plans or programs supporting alternative transportation. Mitigation Measure **MM 4.16-2**, described above, will be incorporated into the Project to reduce this impact to a level that is less than significant.

C. Environmental Effects of the Project That Cannot Be Mitigated to a Level Less Than Significant.

None.

D. Cumulative Environmental Effects of the Proposed Project That Will Have a Less Than Significant Impact on the Environment.

Significant Effect:

Without mitigation, the Project has the potential to contribute to cumulative transportation and traffic impacts (Impact 4.16-7).

Description of Specific Impact:

The addition of Project-related traffic contributes to 34 of the 101 intersections that operate below acceptable LOS (LOS E or below for intersections located within the non-metropolitan region of Kern County and LOS D or below for intersections located within the Bakersfield and Kern County metropolitan areas and for Caltrans facilities, as stated in the Traffic Study) under Year 2035 conditions (Table 4.16-18). This impact would be significant.

The addition of Project-related traffic contributes to 99 of the 462 roadway segments that operate below acceptable LOS (LOS E or below for roadways located within the non-metropolitan region of Kern County and LOS D or below for roadways located within the Bakersfield and Kern County metropolitan areas and for Caltrans facilities) under Year 2035 conditions (see Table 4.16-19) (Appendix W). This impact would be significant.

Finding:

Without mitigation, the Project has the potential to make a considerable contribution to cumulative transportation and traffic impacts. These impacts will be reduced to a less than significant level by implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to make a considerable contribution to cumulative transportation and traffic impacts. Mitigation Measures **MM 4.16-1** and **MM 4.16-2**, as described above, will be incorporated into the Project to reduce this cumulative impact to a level that is less than significant.

E. Cumulative Environmental Effects of the Proposed Project That Will Have a Significant Impact on the Environment.

None.

17. UTILITIES AND SERVICE SYSTEMS.

A. Environmental Effects of the Project Found to Have No Impact on the Environment, or Have a Less Than Significant Impact on the Environment.

None.

B. Environmental Effects of the Project That Are Potentially Significant, but That Can Be Mitigated to Less Than Significant Levels.

Significant Effect:

Without mitigation, the Project has the potential to exceed wastewater treatment requirements of the applicable regional water quality control board (Impact 4.17-1).

Description of Specific Impact:

About 97.4% of the Project Area consists of Tier 1 lands, in which oil and gas activities are the predominant land use, or Tier 2 lands, where agriculture is the predominant use. Of the 97.4% of the Project Area in Tier 1 and Tier 2 lands, 10.1% of the Project Area is located in Tier 1, and 87.3% is located in Tier 2. The remaining 2.6% is found in Tier 3, 4, and 5 lands. In addition, 97% of the projected annual disturbance of up to 4,856 acres would occur in Tier 1 (4,400 acres) or Tier 2 (298 acres) areas. Urban-scale constructed wastewater treatment facilities that are subject to CVRWQCB wastewater treatment requirements would not be significantly affected by Project activity because the majority of activity would not occur where these types of facilities are present.

The majority of wastewater produced by oil and gas activities associated with the implementation of the Project is produced water and well stimulation flowback water, which would likely be either disposed of via Class II Underground Injection Control (UIC) injection wells, percolation and evaporation ponds (aka wastewater disposal ponds), and sumps. Wastewater would not be delivered directly to a municipal wastewater treatment facility. Therefore, these disposal methods would not impact municipal wastewater treatment facilities.

Potential impacts could occur associated with wastewater treatment requirements that may be adopted by the CVRWQCB for other oil and gas-related activities are discussed in EIR Section 4.9, Hydrology and Water Quality, including Impact 4.9-1 (Violate any water quality standards or waste discharge requirements). Potential impacts related to CVRWQCB wastewater treatment requirements analyzed in EIR Section 4.9 include: stormwater and runoff impacts; surface or subsurface discharges during well construction and operation; produced water reuse and disposal (including enhanced oil recovery activities, agricultural irrigation, disposal in evaporation and percolation ponds, and disposal in injection wells); and well stimulation activities. These could result in significant impacts, but would be mitigated through the implementation of the stormwater mitigation measures in EIR Section 4.9, Hydrology and Water Quality, which require compliance with all applicable water quality protection laws and regulations, including stormwater management laws and regulations.

In addition, as discussed in the EIR Section 4.13, Population and Housing, no population or employment growth is anticipated as part of the of the Project beyond the continued gradual growth attributed to the region as a whole (and not attributable to any particular industry sector) by the Kern County of Governments (COG) Regional Transportation Plan (RTP)/Sustainable

Communities Strategy (SCS) EIR projections. Therefore, Project-related employment would not lead to sanitary wastewater generation that would exceed wastewater treatment requirements, and impacts would be less than significant.

Finding:

Without mitigation, the Project has the potential to exceed wastewater treatment requirements of the applicable regional water quality control board. This impact would be reduced to a less than significant level through implementation of mitigation measures, as discussed below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to exceed wastewater treatment requirements of the applicable regional water quality control board. The stormwater mitigation measures described in section II(9) of these findings related to Hydrology and Water Quality, will be incorporated into the Project to reduce this cumulative impact to a level that is less than significant.

Significant Effect:

Without mitigation, the Project has the potential to require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects (Impact 4.17-2).

Description of Specific Impact:

Future oil and gas exploration and production activities and related Project facilities could, depending on their location relative to existing oil and gas infrastructure, require construction/expansion of a septic system and leach line. While sanitary wastewater generation is not anticipated to be significant, new and/or expanded non-municipal wastewater treatment facilities could be required. While all applicable local, state, and federal requirements and Best Management Practices (BMPs) would be incorporated into construction of all Project-related facilities, a new or expanded septic system and leach line could result in significant impacts to the environment (with respect to surface water, groundwater, and vegetation).

Finding:

Without mitigation, the Project has the potential to require or result in the construction of new wastewater treatment facilities, the construction of which could cause significant environmental effects. These impacts will be reduced to a level that is less than significant by implementation of the mitigation measure described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects. The following mitigation measure will be incorporated into the Project to reduce this impact to a level that is less than significant:

MM 4.17-1 Prior to the issuance of building permits for an operations and maintenance building, the method of sewage disposal shall be as required and approved by the Kern County Public Health Services Department. Compliance with this requirement will necessitate that the Project proponent obtain the necessary approvals for the design of the septic system from the Kern County Department of Public Works. The septic system disposal field shall be located a minimum of 100 feet from a classified stream or 25 feet from a non-classified stream and shall not be located where it would impact State wetlands or special-status plant species.

Significant Effect:

Without mitigation, the Project has the potential to require or result in the construction of new stormwater drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects (Impact 4.17-3).

Description of Specific Impact:

About 97.4% of the Project Area consists of Tier 1 and Tier 2 lands. Tier 1 lands, in which oil and gas activities are the predominant land use, represent 10.1% of the Project Area, while Tier 2 lands, where agriculture is the predominant use, represent 87.3% of the Project Area. In addition, 97% of the projected annual disturbance of up to 4,856 acres would occur in Tier 1 (4,400 acres) or Tier 2 (298 acres) areas. Urban-scale constructed stormwater drainage systems occur, to a limited extent, in Tier 1 and Tier 2 areas. Potential Project-related development in Tiers 3, 4, and 5 could produce runoff to existing or planned regional or constructed stormwater drainage systems, The extent of the potential new development would affect, at most, 0.3% of the acreage in Tiers 3, 4, and 5, per year, and would not generate new sources of runoff that could significantly impact existing or planned wastewater treatment systems in these locations.

Stormwater drainage would be managed by site-specific stormwater and runoff management measures. Oil and gas operations that are located in close proximity with or on sites that are hydrologically connected to waters of the United States are generally subject to the requirements of the Construction General Permit and Industrial General Permit adopted by the SWRCB unless otherwise subject to exemption or waiver. These permits require strict compliance with water quality standards through the implementation of BMPs and other measures. The American Petroleum Institute (API) and other sources of applicable industry engineering standards publish and regularly update oil and gas industry standards and criteria for stormwater and runoff management. Stormwater mitigation measures described in EIR Section 4.9, Hydrology and Water Quality, require compliance with all applicable federal, state, regional, and local agency water quality protection laws and regulations, and commonly utilized industry standards, including (where applicable) obtaining coverage under the stormwater construction general permit and industrial general permit issued by the SWRCB and complying with industry stormwater management standards for construction and operational activities. In addition, they require that any oil and gas applicant not subject to state or federal stormwater management laws, regulations or general permits, must implement a drainage plan as specified in the Kern County Grading. These measures ensure that all sites subject to the Project's Chapter 19.98 conformity review process will implement stormwater drainage control measures that meet applicable water quality and other legal requirements. The conservative disturbance factors used in the EIR account for all activities, including stormwater management measure implementation, related to oil and gas activities subject to the Project's Chapter 19.98 conformity review process. Therefore,

with the implementation of the stormwater mitigation measures in Section 4.9, Hydrology and Water Quality, would further ensure that impact would be less than significant.

Finding:

Without mitigation, the Project has the potential to require or result in the construction of new stormwater drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects. This impact will be reduced to a less than significant level through implementation of the mitigation measures discussed below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to require or result in the construction of new stormwater drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects. The stormwater mitigation measures described in section II(9) of these findings related to Hydrology and Water Quality, will be incorporated into the Project to reduce this cumulative impact to a level that is less than significant.

Significant Effect:

Without mitigation, the Project has the potential to result in a determination by the wastewater treatment provider that serves or may serve the Project that serves or may serve the Project that it has adequate capacity to serve the Project's projected demand in addition to the provider's existing commitments (Impact 4.17-5).

Description of Specific Impact:

Almost all oil and gas activities in the Project Area would occur in locations that are not served by, or planned to be served by, constructed, municipal, or regional wastewater treatment facilities. Potential impacts related to the capacity of a wastewater treatment provider to meet Project-related demands would be less than significant. Potential impacts related to produced water and other wastewater treatment and disposal will be less than significant with mitigation. Potential impacts related to onsite domestic wastewater treatment will be mitigated to less than significant levels by requiring the installation of septic systems where applicable in compliance with Kern County standards. No population or employment growth is anticipated as part of the Project beyond the continued gradual growth attributed to the region as a whole. Therefore, Project-related sanitary wastewater generation would not exceed the capacity of wastewater treatment providers, and impacts would be less than significant.

Finding:

Without mitigation, the Project has the potential to result in a determination by the wastewater treatment provider that serves or may serve the Project that serves or may serve the Project that it has adequate capacity to serve the Project's projected demand in addition to the provider's existing commitments. This Project will incorporate mitigation measures that will reduce this potential impact to a less than significant level.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to result in a determination by the wastewater treatment provider that serves or may serve the Project that serves or may serve the Project that it has adequate capacity to serve the Project's projected demand in addition to the provider's existing commitments. Mitigation Measure **MM 4.17-1** will be incorporated into the Project to reduce this potential impact to a less than significant level.

Significant Effect:

Without mitigation, the Project has the potential to be served by a landfill with insufficient permitted capacity to accommodate the Project's solid waste disposal needs (Impact 4.17-6).

Description of Specific Impact:

The Project would generate solid waste during construction and operations. Several landfills within the County have the availability capacity to accommodate the solid waste anticipated to be generated by the Project through and beyond 2035, and as discussed above much of the solid waste that would be generated by oil and gas activities would be managed onsite. Therefore, the Project would not be expected to significantly impact Kern County landfills. Nevertheless, mitigation is required to ensure compliance with policies to reduce waste sent to landfills.

Finding:

Without mitigation, the Project has the potential to be served by a landfill with insufficient permitted capacity to accommodate the Project's solid waste disposal needs. The Project will incorporate mitigation measures, as described below, to reduce this potential impact to a less than significant level.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to be served by a landfill with insufficient permitted capacity to accommodate the Project's solid waste disposal needs. Mitigation Measures **MM 4.17-2**, **MM 4.17-3** and **MM 4.17-5**, described below, will be incorporated into the Project to reduce this impact to a level that is less than significant:

MM 4.17-2 Applicant shall increase the re-use of produced water, and reduce its use of municipal and industrial-quality ground or surface water use to the extent feasible. By the end of 2016, the Applicants shall work with the County to review water use data submitted to Division of Oil Gas and Geothermal Resources under Senate Bill 1281 and identify the five biggest oil industry users of municipal and industrial water by volume. The five biggest oil industry users of municipal and industrial water shall work together to develop and implement a plan identifying new measures to reduce municipal and industrial water use by 2020. The plan shall address the following activities, as appropriate: steam generation; drilling and completions (including hydraulic fracturing); dust control; compaction activities related to construction; and landscaping. Through the KernFLOWS initiative or other efforts (e.g., Groundwater Sustainability Agency), the five biggest oil industry users of municipal-and-industrial water shall also work with

local agricultural producers and water districts to identify new opportunities to increase the use of produced water for agricultural irrigation and other activities, as appropriate. Any produced water treated and used for agricultural irrigation or other activities shall be tested and monitored to assure compliance with applicable standards for such agricultural irrigation or other uses.

MM 4.17-3 In the County's required participation for the formulation of a Groundwater Sustainability Agency, the Applicant shall work with the County to integrate into the Groundwater Sustainability Plan for the Tulare Lake-Kern Basin, best practices from the oil and gas industry to encourage the re-use of produced water from oil and gas activities, and (with appropriate treatment) to produce new water supplies for other uses such as agricultural irrigation and groundwater recharge. The produced water re-use goal is 30,000 acre-feet per year, which would offset more than the current use of imported water and groundwater from non-oil bearing zones by the oil and gas industry.

MM 4.17-5 During construction activities for Project facilities, the Applicant shall not store construction waste onsite for longer than the duration of the construction activity, or transport any waste to any unpermitted facilities. The Applicant shall also reduce construction waste transported to landfills by recycling solid waste construction materials, such as taking materials to recycling and reuse locations listed in the brochure on recycling construction and demolition materials available on the Kern County Waste Management Department website.

Significant Effect:

Without mitigation, the Project has the potential to fail to comply with federal, state, and local solid waste statutes and regulations (Impact 4.17-7).

Description of Specific Impact:

The Project would generate solid waste during construction and operations. The 1989 California Integrated Waste Management Act (AB 939) requires Kern County to attain specific waste diversion goals. In addition, the California Solid Waste Reuse and Recycling Access Act of 1991, as amended, requires expanded or new development projects to incorporate storage areas for recycling bins into the Project design. AB 341 requires additional solid waste recycling by 2020. Implementation of mitigation will ensure compliance with policies to reduce waste sent to landfills.

Finding:

Without mitigation, the Project has the potential to fail to comply with federal, state, and local solid waste statutes and regulations. This impact will reduced to a less than significant level through implementation of mitigation measures, as described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to fail to comply with federal, state, and local solid waste statutes and regulations. Mitigation Measure **MM 4.17-5**, described above, will be incorporated into the Project to reduce this impact to a level that is less than significant.

C. Environmental Effects of the Project That Cannot Be Mitigated to a Level Less Than Significant.

Significant Effect:

The Project will not have sufficient water supplies available to serve Project demand from existing entitlements and resources, or new or expanded entitlements would be needed (Impact 4.17-4).

Description of Specific Impact:

Based on the potential development of up to 2,697 new production wells per year, oil and gas exploration and production demand for produced water and M&I water would increase from existing levels. Oil and gas demand for produced water is projected to increase by 32,600 AFY, and M&I demand is projected to increase by about 2,982 AFY from 2012 levels by 2035. Produced water demand for agricultural reuse is projected to be 32,771 AFY. Oil and gas exploration and production activities currently generate sufficient produced water to meet existing and future demands for produced water. With respect to the Project's demand for M&I water, however, current drought conditions have severely restricted the availability of imported and local surface supplies throughout California, including the Project Area, and groundwater is being used more heavily to meet Project Area demand, including for oil and gas activities. Surplus M&I-quality water is not available in the Project Area. Any new use reduces the availability of M&I-quality water to another Project Area user, or increases the regional groundwater overdraft if supply shortfalls are addressed by increased groundwater extraction. Consequently, existing entitlements and resources are insufficient to meet current and projected future M&I water demand in the Project Area. Increasing M&I water demand under overdraft conditions is considered to be a significant impact.

Finding:

The Project could cause significant impacts to existing water supply entitlements and resources. This impact will be reduced with implementation of the feasible mitigation measures described below, but such measures cannot reduce this impact to a less than significant level. Project impacts to water supplies would be significant and unavoidable.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to cause significant impacts to existing water supply entitlements and resources. Mitigation Measures **MM 4.17-2** and **MM 4.17-3**, described above, and **MM 4.17-4**, described below, will be incorporated into the Project to reduce its water supply impacts, but the allocation of water supplies and water demands, the complex laws affecting water rights, the many water districts that have legal jurisdiction over one or more sources of water in the Project Area, the varied technical feasibility of treating produced water, and the produced water reuse opportunities, all present complex variables that fall outside the scope of the County's jurisdiction or control under CEQA. The County concludes that other agencies can and should cooperate in water management planning and implementation actions under the Sustainable Groundwater Management Act and other applicable laws to improve the quantity and reliability of water supplies in the Project Area. Because of significant ongoing regional uncertainties regarding water supplies, and the need for agencies other than Kern County to take action to improve

management of regional water supplies to meet existing and reasonable foreseeable demand, Project impacts to water supplies would remain significant and unavoidable.

MM 4.17-4 The Applicant shall work with the County on the Groundwater Sustainability Plan to increase Applicant use of reclaimed water and reduce the Applicant's use of municipal-and-industrial quality imported surface water or groundwater. The Applicant will provide copies of water use reports produced under SB 1281 to the Groundwater Management Agency, which will then integrate this information into the Groundwater Sustainability Plan required under the Sustainable Groundwater Management Act.

D. Cumulative Environmental Effects of the Proposed Project That Will Have a Less Than Significant Impact on the Environment.

None.

E. Cumulative Environmental Effects of the Proposed Project That Will Have a Significant Impact on the Environment.

Significant Effect:

The Project will make a considerable contribution to cumulative impacts on utilities and sewer systems (Impact 4.17-8).

Description of Specific Impact:

Significant cumulative impacts to public services would occur if the cumulative projects would overburden the public service agencies and if utility providers were unable to provide adequate services. The cumulative projects would substantially increase the demand for public service providers and utility servers. The Project would not increase the demand for municipal wastewater treatment, stormwater management, or landfills. Incorporation of the mitigation measures 4.17-1 and 4.17-5 described above would further reduce impacts from the proposed Project, in conjunction with other projects in the area, to a less than significant cumulative level for public utilities use, except water supply.

Future growth will increase water demand in the Project Area by 2035 in average, dry, and multiple dry year conditions, even assuming groundwater extractions remain at historic levels and are not limited to comply with the state's new GSP requirements. The Central Subarea has a supply deficit in average years ranging from -681,596 AF in 2015 to -717,682 in 2035. Surpluses in the Eastern Subarea, generally associated with the availability of diverted water from the Kern River, and smaller average year surpluses in the Western Subarea slightly exceed the supply deficits in the Central Subarea. Under single dry year conditions, Project Area supply deficits in single dry years would range from -750,710 AF in 2015 to -817,127 AF in 2035. Under multiple dry year conditions, Project Area supply deficits in multiple dry years would range from -315,626 AF in 2015 to -383,042 AF in 2035.

Oil and gas demand for M&I water is also projected to increase by about 2,982 AFY from 2012 levels by 2035. Surplus M&I-quality water is not available in the Project Area. Any new use reduces the availability of M&I-quality water to another Project Area user, or increases the regional groundwater overdraft if supply shortfalls are addressed by increased groundwater extraction. Consequently, existing entitlements and resources are insufficient to meet the current

and projected future M&I water demand in the Project Area, and increasing M&I water demand under overdraft conditions would contribute to a significant cumulative water supply impact in the Project Area.

Finding:

The Project has the potential to make a considerable contribution to cumulative impacts on utilities and sewer systems, specifically with respect to water supplies. This impact will be reduced with implementation of the feasible mitigation measures described below, but such measures cannot reduce this impact to a less than significant level with respect to water supplies. The Project's cumulative impact to water supplies would be significant and unavoidable.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to make a considerable contribution to cumulative impacts on utilities and sewer systems. Mitigation Measures **MM 4.17-1** through **MM 4.17-5**, described above, will be incorporated into the Project to reduce its cumulative water supply impacts, but the allocation of water supplies and water demands, the complex laws affecting water rights, the many water districts that have legal jurisdiction over one or more sources of water in the Project Area, the varied technical feasibility of treating produced water, and the produced water reuse opportunities, all present complex variables that fall outside the scope of the County's jurisdiction or control under CEQA. The County concludes that other agencies can and should cooperate in water management planning and implementation actions under the Sustainable Groundwater Management Act and other applicable laws to improve the quantity and reliability of water supplies in the Project Area. Because of significant ongoing regional uncertainties regarding water supplies, and the need for agencies other than Kern County to take action to improve management of regional water supplies to meet existing and reasonable foreseeable demand, cumulative impacts to water supplies would remain significant and unavoidable.

SECTION III FINDINGS REGARDING GROWTH INDUCING IMPACTS

The KCGP recognizes that certain forms of growth are beneficial, both economically and socially. Section 15126.2(d) of the CEQA Guidelines provides the following guidance on growth-inducing impacts: a project is identified as growth inducing if it "could foster economic or population growth, or the construction of additional housing, either directly or indirectly, in the surrounding environment."

Growth inducement can be a result of new development that requires an increase in employment, removes barriers to development, or provides resources that lead to secondary growth. With respect to employment, 16,752 workers in Kern County were employed in the oil and gas extraction industry in 2012. Of this total, 14,067 were estimated to be "oilfield" employees. Future oil and gas exploration and production activities that would be authorized under the proposed Amendment to Chapter 19.98 (Oil & Gas Production) of the Kern County Zoning Ordinance would result in 2,697 new production wells being drilled annually, while 2,231 wells would be plugged and abandoned. Additionally, it is anticipated that 1,200 wells would receive some type of well stimulation treatment during this same timeframe. Given the long history of oil and gas development within Kern County, implementation of the Project would not result in a large increase in employment that would significantly induce growth.

With respect to removing barriers to development, such as through providing access to previously undeveloped areas, the oil and gas development activities would involve constructing temporary and permanent access roads. Some roads may be removed and restored after initial construction; some may be reduced in size; and others may be maintained at their construction size for the life of the associated oil and gas operation. In general, these roads would provide for access to oil and gas construction and operation areas and would not provide access into other areas thereby promoting growth-inducing development. No other development would be anticipated as a result of these roads, and oil and gas development would tend to preclude other development from occurring.

While the Project would contribute to energy supply, which supports growth, the development of additional oil and gas resources is a response to increased market demand and is not a factor that induces new growth. Kern County planning documents already permit and anticipate a certain level of growth in the area of the Project and in the state as a whole, along with attendant growth in energy demand. It is this anticipated growth that drives energy-production projects and development, not vice versa. The Project would supply oil and gas to accommodate and support existing demand and projected growth, but it would not foster any new growth. Therefore, any link between the Project and growth in Kern County would be speculative.

In *Kerncrest Audubon Society v. Los Angeles Department of Water and Power*, the analysis of growth-inducing effects contained in the EIR for the Pine Tree Wind Development Project was challenged. Plaintiffs argued that the discussion was too cursory to provide adequate information about how additional electricity generated by the Project would sustain further growth in the Los Angeles area. The court held that the additional electricity that the Project would produce was intended to meet the current forecast of growth in the Los Angeles area. As such, the wind development project would not cause growth, and so it was not reasonable to require a detailed analysis of growth-inducing impacts. In addition, EIRs for similar energy projects have contained similarly detailed analyses of growth-inducing impacts. Their conclusions that increasing the energy supply would not create growth has been upheld, because: (1) the additional energy would be used to ease the burdens of meeting existing energy demands within and beyond the area of the Project; (2) the energy would be used to support already-projected growth; or (3) the factors affecting growth are so multifarious that any potential connection between additional energy production and growth would necessarily be too speculative and tenuous to merit extensive analysis. Thus, as has been upheld in the courts, this level of analysis is sufficient to inform the public and decision makers of the growth-inducing impacts of the Project.

For the reasons set forth above, the County finds that the Project would not directly or indirectly induce population or economic growth.

SECTION V STATEMENT OF OVERRIDING CONSIDERATIONS

According to Section 15355 of the CEQA Guidelines, the term cumulative impacts "refers to two or more individual effects which, when considered together, are considerable or which compound or increase other environmental impacts." Individual effects that may contribute to a cumulative impact may be from a single project or a number of separate projects. Individually, the impacts of a project may be relatively minor, but when considered along with impacts of other closely related or nearby projects, including newly proposed projects, the effects could be cumulatively considerable.

As discussed above, the County has considered the potential cumulative effects of the proposed Project and found that Project impacts for the following issue areas have been found to be cumulatively considerable:

- Aesthetics;
- Agriculture and Forest Resources;
- Air Quality;
- Biological Resources;
- Cultural Resources;
- Greenhouse Gases (GHGs);
- Hydrology and Water Quality; and
- Utilities and Services (Water Supply).

When an agency approves a project with significant environmental effects that will not be avoided or substantially lessened, in must adopt a "statement of overriding considerations" explaining that, because of the project's overriding benefits, the agency is approving the project despite its environmental harm. (14 Cal. Code Regs. § 15043.) The County's statement of overriding considerations for the Project is as follows:

The California Environmental Quality Act (CEQA) requires a public agency to balance the benefits of a proposed project against its significant unavoidable adverse impacts in determining whether to approve a project. The Amendment to Title 19.98 and related provisions of the Kern County Zoning Ordinance (the Project) will result in environmental effects, which, although mitigated to the extent feasible by the implementation of mitigation measures required for the Project, will remain significant and unavoidable, as discussed in the Final Environmental Impact Report (EIR) and CEQA Findings of Fact. These impacts are summarized below and constitute those impacts for which this Statement of Overriding Considerations is made.

1. Although implementation of mitigation measures would reduce the adverse visual changes experienced at individual key observation point locations, there are no mitigation measures that would preserve the existing character and quality of the Project Area and its surroundings. Project-related oil and gas activities would continue to produce visible changes to the existing environment and the resultant visual impact is considered significant and unavoidable. The Project has the potential to create a new source of substantial light or glare that would adversely affect day or nighttime views in the area. After implementation of MM 4.1-6, this impact would remain significant and unavoidable.

2. The oil and gas industry has a visible presence on the landscape of the San Joaquin Valley Floor and, the Project in combination with the implementation of other reasonably foreseeable oil and gas projects will continue to result in adverse visible changes within Kern County. Therefore, the Project's cumulative contribution after implementation of the recommended mitigation measures would remain cumulatively significant and unavoidable as a result of these changes in visual character and quality.

3. The Project would continue to generate odors. With implementation of MM 4.3-7, impacts would still be significant and unavoidable.

4. The construction and operational activities of oil and gas activities that would be authorized under the Project would result in an increase of criteria pollutants (oxides of nitrogen [NOx], volatile organic compounds [VOC], carbon monoxide [CO], particulate matter less than 10 microns and less than 2.5 microns in diameter [PM10 and PM2.5, respectively]) in excess of the recommended criteria pollutant significance threshold adopted by the SJVAPCD Board. Emission sources in Kern County contribute between 11% and 21% of criteria pollutant emissions in the San Joaquin Valley Air Basin. The Project would contribute between 2% and 14% of these pollutants in the San Joaquin Valley Air Basin or between 19% and 97% of Kern County's contribution. This analysis indicates that most sulfur dioxide (SO2) emissions in Kern County would originate from oil and gas activities and the majority of NOX emissions. Therefore, the proposed Project would have a cumulatively considerable contribution of criteria pollutant (NOX, PM10, PM2.5, CO and SO2) emissions to the Kern County portion of the SJVAB.

5. The geographic scope for cumulative impacts to agricultural and forest resources encompasses the whole of Kern County. The oil and gas exploration and production activities that would be authorized through implementation of the proposed Project along with projected population growth could result in significant and unavoidable cumulative impacts on farmland conversion.

6. Future oil and gas exploration and production activities related to the proposed Zoning Ordinance amendment could contribute to a significant cumulative impact on Project Area biological resources because future use and development of federal, state, and incorporated urban lands are not within the County's jurisdiction or control. Future land uses and development could affect biological resources in each of these jurisdictions and would be undertaken as independent actions with associated impacts, avoidance and minimization requirements, and mitigation, if required, under applicable federal, state, regional and local agency law. Impacts would remain significant and unavoidable with mitigation.

7. While implementation of MM 4.5-1 through MM 4.5-5 would reduce Project impacts to a less than significant level, cumulative impacts to cultural and paleontological resources within and beyond the boundaries of the Project Areas (including on lands within incorporated cities and on lands owned by other government agencies) would be significant. The County lacks the jurisdiction and control over these other jurisdictions and thus cannot enforce cultural and paleontological resource mitigation measures to reduce cumulative cultural and paleontological impacts to a less than significant level.

8. The Project has the potential to conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases. With the implementation of MM 4.7-5, the impact would remain significant and unavoidable.

9. The geographic scope for cumulative impacts for GHGs includes the area within 6 miles of the external Project Area boundary, and areas (*e.g.*, incorporated cities) within the Project Area. Climate change impacts are inherently global and cumulative, and not Project specific. While implementation of MM 4.7-1 through MM 4.7-3 and the 2014 Regional Transportation Plan mitigation measures would encourage reduction in GHG emissions at a regional level, they do not provide a mechanism that guarantees GHG emission reductions on a cumulative basis. The Project's cumulative contribution after implementation of the recommended mitigation measures would remain cumulatively significant and unavoidable as a result of the GHG emissions associated with the Project.

10. Although MM 4.17-2 through MM 4.17-4 would encourage the additional reuse of produced water, the extent to which oilfield operators can increase produced water reuse and decrease municipal and industrial demand is uncertain. As a result, potential impacts to groundwater levels and aquifer volumes would be significant and unavoidable with mitigation.

11. Project hydrology and water quality impacts could be cumulatively considerable impacts and thus considered significant. Implementation of MM 4.9-1 through MM 4.9-6 would reduce potential cumulative impacts to water quality, erosion risks, flooding and other hydrologic resources to less than significant with mitigation. Although MM 4.17-2 through MM 4.17-4 encourage the additional reuse of produced water, the extent to which oilfield operators can increase produced water reuse and decrease municipal and industrial demand is uncertain. As a result, cumulative impacts to groundwater would be significant and unavoidable. The County lacks jurisdiction and control over land conversions, and actions or approvals by other agencies that may cause cumulatively significant impacts to hydrology or water quality in the region; accordingly, this impact remains significant and unavoidable.

12. Implementation of MM 4.17-2 to MM 4.17-4 could reduce water supply impacts, but the allocation of water supplies and water demands, the complex laws affecting water rights, the many water districts that have legal jurisdiction over one or more sources of water in the Project Area, the varied technical feasibility of treating produced water, and the produced water reuse opportunities all present complex variables that fall outside the scope of the County's jurisdiction or control under CEQA. Although mitigation measures would reduce Project water supply impacts, such impacts would remain significant and unavoidable after mitigation.

13. The geographic scope for cumulative impacts to utilities and service systems includes the area within 6 miles of the external Project Area. Cumulative impacts would be significant and unavoidable with respect to water supply, even with implementation of MM 4.17-1 through MM 4.17-5.

Findings:

The Board of Supervisors finds and determines in approving the Project that the Final EIR has considered the identified means of lessening or avoiding the Project's significant effects and that to the extent any significant direct or indirect environmental effects, including cumulative project impacts, remain unavoidable or not mitigated to below a level of significance after mitigation, such impacts are at an acceptable level in light of the social, legal, economic, environmental, technological and other project benefits discussed below, and such benefits override, outweigh, and make "acceptable" any such remaining environmental impacts of the project (CEQA Guidelines Section 15092(b)).

The following benefits and considerations outweigh such significant and unavoidable adverse environmental impacts. All of these benefits and considerations are based on the facts set forth in the Findings, the Final EIR, and the record of proceedings for the Project. Each of these benefits and considerations is a separate and independent basis that justifies approval of the Project, so that if a court were to set aside the determination that any particular benefit or consideration will occur and justifies project approval, this Board of Supervisors determines that it would stand by its determination that the remaining benefit(s) or consideration(s) is or are sufficient to warrant project approval.

EXHIBIT A

Facts:

Each benefit set forth below constitutes an overriding consideration warranting approval of the Project, independent of the other benefits, and the Board of Supervisors determines that the adverse environmental impacts of the Project are "acceptable" if any one of these benefits will be realized.

The benefits set forth below are more fully outlined in the Final EIR and in the attached independent report entitled *The Economic Contribution of the Oil and Gas Industry in Kern County*.

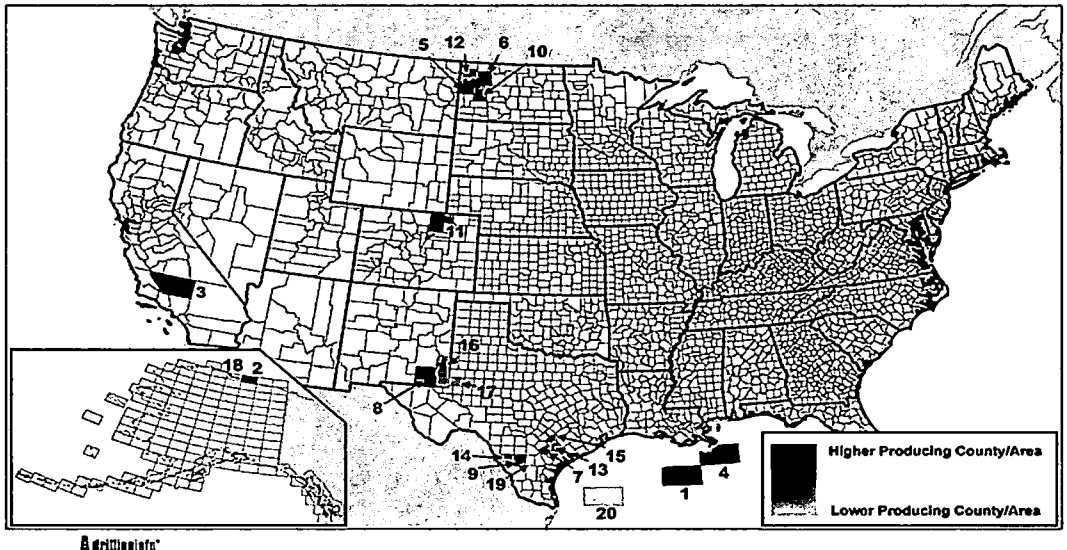
The Project will provide benefits to Kern County as follows:

1. General Economic and Community Benefits of the Project to the County

Below are a few examples of how oil and gas companies contribute to the community and benefit the local economy. The Project, by spurring continued oil and gas activity in the County, ensures these benefits will persist.

Kern is the leading oil-producing county in the nation, yielding 145 million bbl of oil and 132 billion CF of gas annually, according to 2014 DOGGR data:

Top 20 Oil Producing Counties/Regions



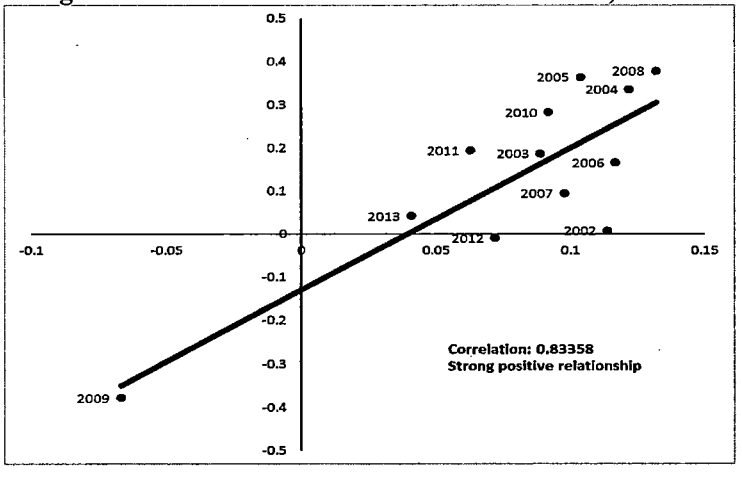
These amounts represent 71% of California's oil production and 10% of the total U.S. oil production. Kern County produces 66% of the state's total gas production. The oil and gas industry is the number-one industry in Kern County in terms of gross domestic product and tax contributions. The industry generates significant regional economic activity. Extraction, production, refining, and petroleum product manufacturing result in highly tradable products that are consumed domestically and are also exported. These efforts produce high revenues, create high wage jobs, and contribute significant tax revenue to all levels of government. The impact of the oil and gas industry is very far-reaching. The approximately $3.8 billion paid in 2013 to local

oil and gas employees creates a significant "ripple effect" phenomenon in the local economy. Direct activity includes the materials purchased and the employees hired by the industry itself. Indirect effects are those which stem from the employment and business revenues motivated by the purchases made by the industry and any of its suppliers. Increased output generates new money in the community, resulting in increased spending on new homes, durable goods such as cars and appliances, plus additional spending on restaurants and entertainment options.

EXHIBIT A

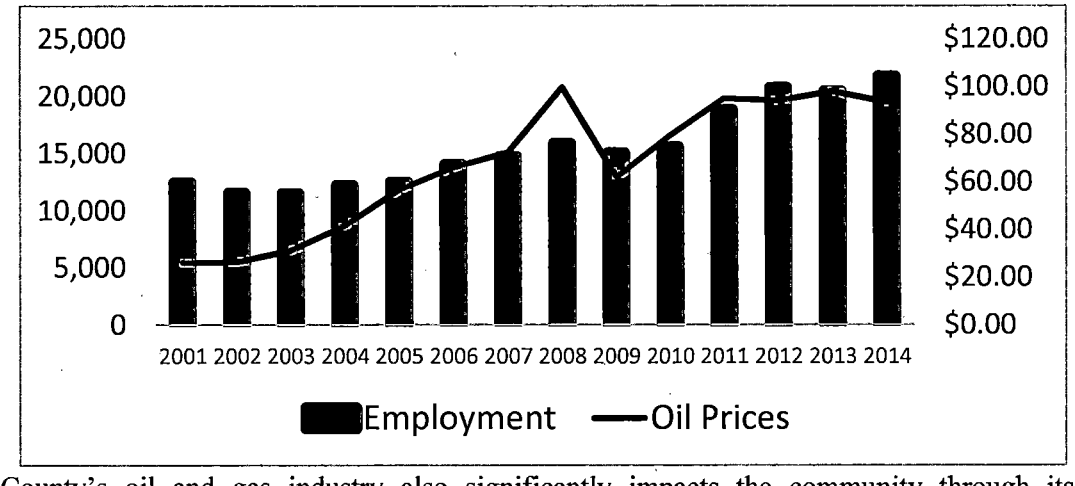
There is also a correlation between rising oil prices and regional economic growth. Seventy of GDP growth over the period 2001-2013 could be directly attributed to rising oil prices:

Change in Kern Oil Prices vs. Kern GDP Growth, 2001-2013



Local employment increases / decreases are associated with shifts in oil prices:

Kern County O&G Industry Employment vs. Kern Oil Prices, 2001-2014



Kern County's oil and gas industry also significantly impacts the community through its philanthropic activity and contributions to local education efforts. More than $5.5 million was donated to more than 130 local non-profits and educational programs in 2014. Kern County's two community colleges, California State University - Bakersfield, and K-12 funding are the most frequent beneficiaries of the financial support. Social service non-profits (*e.g.*, the Homeless Center / Alliance Against Family Violence) and health-related organizations (*e.g.*, the American Heart Association) also rank among the top recipients.

Several science, technology, engineering and math programs were started or sustained due to oil and gas industry funding at Taft College and Bakersfield College. California State University - Bakersfield opened its new Fabrication Lab in 2014 due, in large part, to oil and gas funding. These programs, plus others like a local welding program and a hands-on research program for high school students, help prepare students for a variety of careers. An industry-funded program

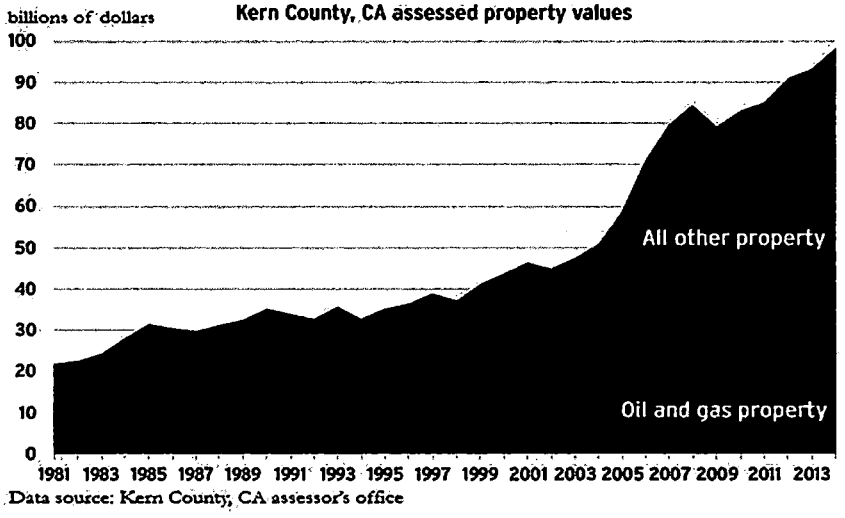
at Taft College places students in positions with local non-profit organizations; some are traditional students, and some are part of the Transition to Independent Living program which serves students with developmental / intellectual disabilities. The oil and gas funding provides wages for these students.

More than 15,000 oil and gas employee hours were volunteered for local programs in 2014, and the United Way states that oil and gas employees (plus oilfield service company employees) donated nearly $400,000 during the 2013/14 fiscal year.

2. Local Tax Revenues

As outlined in detail below, the oil and gas industry accounted for roughly 30% of the Kern County's $100 billion in property tax valuations in 2014. Taxes paid by the oil and gas industry play a major role in the support of local infrastructure, including schools, public safety, streets and roads, and parks. The Project will advance the continued production of oil and gas resources in Kern County, thereby securing an important local tax base.

Kern County Assessed Property Values, 2014



Data source: Kern County, CA assessor's office

EXHIBIT A

Economic and Fiscal Contribution of the O&G Industry in Kern County, 2013

ECONOMIC CONTRIBUTION	Employment	Labor Income	Value Added	Output
Direct	23,857	$2,954.2	$4,891.6	$15,152.3
Indirect	7,073	$359.1	$517.7	$955.7
Induced	13,615	$508.0	$957.6	$1,580.8
TOTAL CONTRIBUTION	44,544	$3,821.4	$6,366.9	$17,689.1
Percent of Total CA Contribution	11.8%	11.6%	10.0%	9.2%
Percent of County Total	11.0%	17.0%	17.9%	27.0%

FISCAL CONTRIBUTION	State and Local ($ millions)	Federal ($ millions)	Total Taxes ($ millions)
Sales and excise taxes	$607.6	$164.7	$772.3
Property taxes	$285.6	-	$285.6
Personal income taxes	$117.2	$307.7	$424.9
Corporate profits taxes	$31.6	$125.2	$156.8
Social insurance taxes	$13.9	$387.9	$401.8
Other taxes	$63.6	$28.9	$92.5
Fees, fines and permits	$26.3	$7.3	$33.7
TOTAL TAX REVENUES	$1,145.7	$1,021.8	$2,167.5

Source: LAEDC

3. Local Job Creation

Kern County's oil and gas industry is a significant source of overall employment and also a provider of high-paying jobs that require moderate-to-high skill levels (*i.e.* jobs in technical and engineering occupations). The Project will ensure that these important opportunities continue to be available in Kern County.

Oil and gas-related employment accounts for approximately 1 in 7 jobs in the County. Almost all segments of the industry pay higher wages than the Kern County average. In some more specialized or highly-skilled areas, wages are triple the 2014 county average of $41,100. The oil and gas industry offers higher-than-average wages in Kern County. Oil and gas extraction, consisting of highly skilled engineering and geological jobs, was the highest-paying segment with an average annual salary of nearly $143,000. The average annual salary for the entire sector was $78,000, which is nearly double the "all industries" annual average of $41,100:

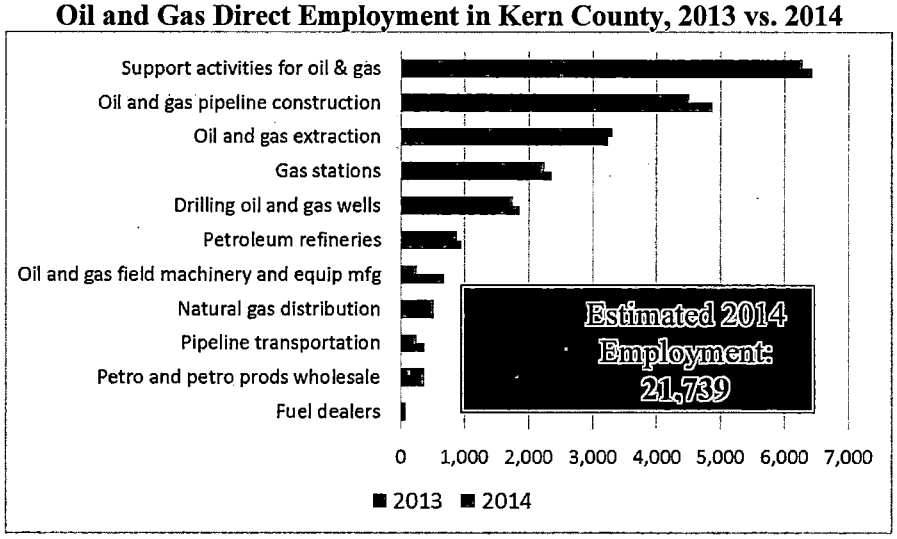
Kern County Oil and Gas Industry Annual Wages, 2014

NAICS Sub-Sector	Annual Establishments	Annual Average Direct Employment	Total Annual Wages	Annual Wages per Employee
NAICS 211 Oil and gas extraction	56	3,243	$462,232,109	$142,543
NAICS 213111 Drilling oil and gas wells	25	1,864	$149,487,414	$80,219
NAICS 213112 Support activities for oil and gas operations	112	6,432	$503,666,507	$78,307
NAICS 2212 Natural Gas Distribution	4	492	ND	ND
NAICS 23712 Oil and gas pipeline construction	20	4,876	$266,098,995	$54,574
NAICS 32411 Petroleum refineries	26	949	$119,544,267	$125,980
NAICS 333132 Oil and gas field machinery and equipment mfg	12	680	$43,305,000	$63,684
NAICS 4247 Petroleum merchant wholesalers	23	375	$25,277,050	$67,376
NAICS 447 Gasoline stations	199	2,349	$49,312,745	$20,992
NAICS 45431 Fuel dealers	11	74	$3,102,702	$42,071
NAICS 486 Pipeline transportation	13	376	$34,280,826	$91,152
Total, Oil and Gas Industry	**501**	**21,710**	**$1,656,307,615**	**$76,292**
Total, All Industries	16,267	254,620	$10,466,665,862	$41,107

Across the oil and gas industry in 2014, there were approximately 50,000 direct, indirect, and induced energy-related jobs in Kern County. Even using more conservative numbers (excluding

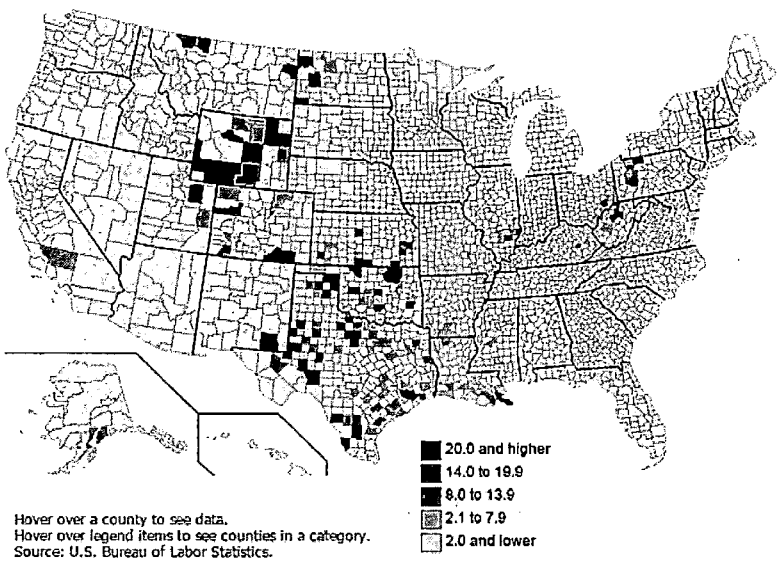
indirect employment opportunities at gas stations, fuel dealers, petroleum wholesale, equipment manufacturing, pipeline construction and the like), the Final EIR estimates that 16,752 workers in Kern County were employed in the oil and gas extraction industry in 2012, with the state employment office measuring a steady increase of employment from 2002 to 2012 at which time growth stabilized around 12,000.

Oil and Gas Direct Employment in Kern County, 2013 vs. 2014



Kern County is the only county in the western region with an above average concentration of oil and gas-related jobs. Kern County is heavily concentrated in oil and gas extraction as well as in oil and gas pipeline construction:

Counties with the Highest Relative Concentration of Employment (Location Quotient) in the Oil and Gas Extraction Industry, 2014



The oil and gas industry is one of the most impactful industry sectors on economic activity throughout the region:

EXHIBIT A

Economic Impact of O&G Expenditures and Production

Impact per $1 million of O&E Extraction Expenditures				
Impacts	*Jobs*	*Wages*	*Value Added*	*Gross Output*
Direct	1.39	$134,740	$395,179	$1,000,000
Indirect	2.44	$174,982	$278,836	$562,231
Induced	2.00	$102,470	$183,927	$305,457
Total	5.83	$412,191	$857,942	$1,867,688
Impact per $1 million O&E Production				
Direct	1.80	$133,757	$542,968	$1,000,000
Indirect	2.18	$157,460	$281,037	$469,367
Induced	1.83	$93,727	$168,233	$279,367
Total	5.80	$384,945	$992,238	$1,748,733
Source: Implan (CA Model)				

Kern County recently ranked in the Top 10 in the U.S. in terms of upward mobility and in the overall concentration of science, technology, engineering and math jobs. A majority of Kern County's hi-tech employment is in the oil and gas industry (an estimated 65%), where most positions require technical degrees rather than advanced degrees. Bakersfield College is ranked 6th in the nation among similar schools with regard to which schools' graduates received "added value," based on their mid-career earnings levels. Bakersfield College students were predicted to earn $56,957 annually based on student characteristics and college type, but their mid-career salaries surpassed that prediction, coming in at an average of $67,200 (15% higher than predicted). California State University - Bakersfield also has graduates earning $75,400 at the mid-career point, 11.6% better than the predicted $66,599. The high performance of these colleges and their graduates was due to a combination of factors, including extensive science, technology, engineering and math curriculum in the schools, and the programs' proximity to energy employment centers.

4. Compliance with the Goals and Policies of the Kern County General Plan (General Plan) and Zoning Ordinance

The Project is consistent with various Goal and Policies of the Kern County General Plan, including:

- Protect areas of important mineral, petroleum, and agricultural resource potential for future use.
- Encourage safe and orderly energy development within the County, including research and demonstration projects, and to become actively involved in the decision and actions of other agencies as they affect energy development in Kern County.
- Support and work toward the elimination of disincentives for business and industry to prosper in Kern County, and create special economic development programs to encourage commerce and industry to locate in Kern County.
- Periodically review and update procedures for granting development approvals and permits and facilitate the processing of land use entitlements.

The General Plan Energy Element notes the importance of the oil and gas industry to Kern County. The project will further the Goals and Objectives of the General Plan by enhancing the economic stability of the oil and gas industry in the County.

5. State, Regional and Federal Tax Revenue

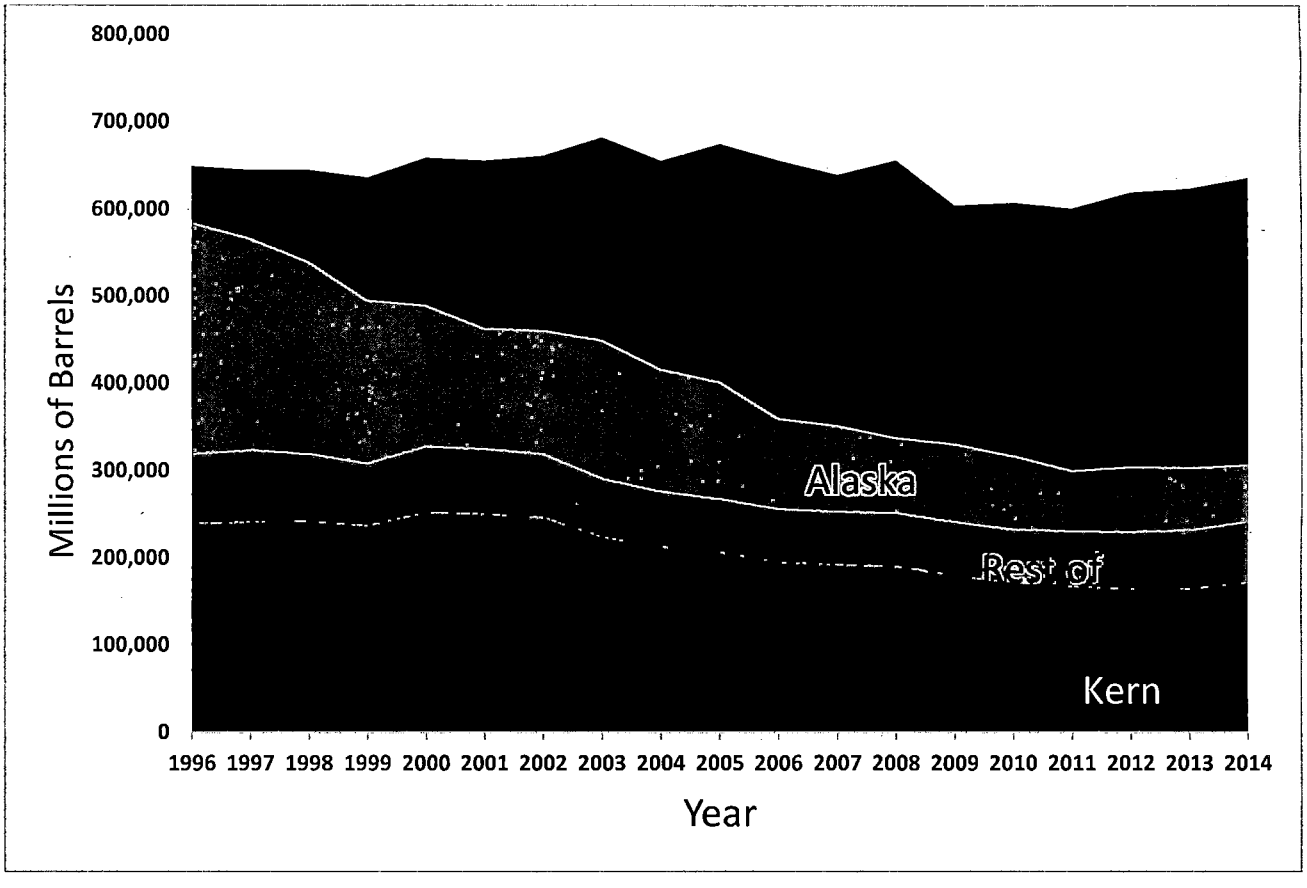
In 2013, economic activity associated with the oil and gas industry in Kern County is estimated to have generated $1.15 billion in state and local tax revenue, plus $1.02 billion in federal tax revenue. The Project will foster the continued production of oil and gas resources in Kern County, thereby securing an important source of tax revenue for California, the western region and the nation.

6. Energy Independence

The Project will allow California producers to better meet current demand and to keep pace with population growth. The Project will also help California to take steps toward strengthening its energy independence, which is financially and environmentally desirable.

California is currently a net importer of oil, producing only about 37 percent of the petroleum that it uses:

Sources Supplying Crude Oil to California Refineries



Dependence on foreign oil makes the state vulnerable to energy shortages and price spikes, and makes us dependent on foreign countries for energy. In addition, Californians then miss out on critical infrastructure funding since imported oil is exempt from California taxes (while high-paying oil and gas jobs then go to foreign countries or other states). All oil and gas produced in California is used here and is produced under the most stringent regulations in the world.

EXHIBIT A

SECTION VI. FINDINGS REGARDING PROJECT ALTERNATIVES

CEQA requires that the lead agency adopt mitigation measures or alternatives, where feasible, to substantially lessen or avoid significant environmental impacts that would otherwise occur. The concept of "feasibility" encompasses the question of whether a particular alternative or mitigation measure promotes the underlying goals and objectives of a project. (*City of Del Mar v. City of San Diego* (1982) 133 Cal.App.3d 410, 417 (*City of Del Mar*); *Sierra Club v. County of Napa* (2004) 121 Cal.App.4th 1490, 1506-1509 [court upholds CEQA findings rejecting alternatives in reliance on applicant's project objectives]; see also *California Native Plant Society v. City of Santa Cruz* (2009) 177 Cal.App.4th 957, 1001 (*CNPS*) ["an alternative 'may be found infeasible on the ground it is inconsistent with the project objectives as long as the finding is supported by substantial evidence in the record'"] (quoting Kostka & Zischke, *Practice Under the Cal. Environmental Quality Act* [Cont.Ed.Bar 2d ed. 2009] (*Kostka*), § 17.39, p. 825); *In re Bay-Delta Programmatic Environmental Impact Report Coordinated Proceedings* (2008) 43 Cal.4th 1143, 1165, 1166 (*Bay-Delta*) ["[i]n the CALFED program, feasibility is strongly linked to achievement of each of the primary project objectives"; "a lead agency may structure its EIR alternative analysis around a reasonable definition of underlying purpose and need not study alternatives that cannot achieve that basic goal"].) Moreover, "'feasibility' under CEQA encompasses 'desirability' to the extent that desirability is based on a reasonable balancing of the relevant economic, environmental, social, legal, and technological factors." (*City of Del Mar*, *supra*, 133 Cal.App.3d at p. 417; see also *CNPS*, *supra*, 177 Cal.App.4th at p. 1001 ["an alternative that 'is impractical or undesirable from a policy standpoint' may be rejected as infeasible"] [quoting *Kostka*, *supra*, § 17.29, p. 824]; *San Diego Citizenry Group v. County of San Diego* (2013) 219 Cal.App.4th 1, 17.)

Were an alternatives analysis required, CEQA requires evaluations of alternatives that can reduce the significance of identified Project impacts that will not be avoided or substantially lessened by mitigation measures and can "feasibly attain most of the basic objectives of the proposed Project." Thus, overall Project objectives were considered by this County in evaluating the alternatives.

The County has defined the following objectives for the Project:

- Update the County's Zoning Ordinance to include additional procedures and compliance standards that address changes in laws and regulations by other agencies, and technological advancements within the oil and gas industry, for the purpose of reducing or eliminating potential significant adverse environmental impacts, to the extent feasible, of future oil and gas activities, and thereby ensure that current County ordinances reflect the County's interest in protecting the health, safety, and general welfare of residents and visitors.
- Encourage ongoing economic development by the oil and gas industry that creates quality, high paying jobs and promotes capital investment in Kern County, which enables the County to invest in capital improvement projects and social programs, which benefit County residents, retail businesses, and capital industries which ensures the County's fiscal stability.
- Continue Kern County's ongoing commitment to consult and cooperate with federal, state, regional, and local agencies by periodically reviewing adopted regulations to ensure the long-term viability of Kern County's resources.

- Continue to improve and streamline current energy regulations and increase County monitoring and involvement in state and federal energy legislation.
- Protect areas of important mineral, petroleum, and agricultural resource potential for future use by promoting sustainability and encouraging best management practices, which are mutually beneficial, through strategic short- and long-range planning.
- Ensure the protection of environmental resources by emphasizing the conservation of productive agricultural lands, the encouragement of planned urban growth, the promotion of clean air strategies to address existing air quality issues, and the promotion of long-term water conservation strategies which will ensure the quality and adequacy of surface and groundwater supplies for future growth of all of Kern County's industries.
- Contain new development within an area large enough to meet generous projections of foreseeable need, but in locations that will not impair the economic strength derived from residential developments, agriculture, rangeland, mineral resources, or diminish the other amenities that exist in Kern County.

The Project Applicants have defined the following objectives for the Project:

- Create an effective regulatory and permitting process for oil and gas exploration and production that can be relied on by the County of Kern, as well as the California Division of Oil, Gas and Geothermal Resources and other responsible agencies.
- Achieve an efficient and streamlined environmental review and permitting process for all oil and gas operations covered by the proposed Project.
- Provide for economically feasible and environmentally responsible growth of the Kern County oil and gas industry.
- Develop industry-wide best practices, performance standards, and mitigation measures that ensure adequate protection of public health and safety and the environment.
- Increase oil and gas exploration and production in Kern County as a means of reducing California's dependence upon foreign sources of energy.
- Increase oil and gas exploration and production in Kern County as a means of increasing employment opportunities and economic prosperity to Kern County's residents, businesses, and local government.

The following findings and brief explanation of the rationale for the findings regarding Project alternatives identified in the EIR are set forth to comply with the requirements of Section 15091(a)(3) of the CEQA Guidelines.

The consideration of alternatives is an integral component of the CEQA process. The selection and evaluation of a reasonable range of alternatives provides the public and decision-makers with information on ways to avoid or lessen environmental impacts created by a proposed project. When selecting alternatives for evaluation, CEQA requires alternatives that meet most of the basic objectives of the Project, while avoiding or substantially lessening the Project's significant effects.

Six alternatives to the Project were defined and analyzed:

EXHIBIT A

Alternative 1: No Project

Finding: As required by CEQA Guideline §15126.6, this chapter describes and analyzes a "no project" alternative for the purpose of comparing the impacts of approving the Project with the impacts of not approving the Project. Alternative 1, the "No Project" Alternative, thus assumes that the Project's proposed amendment to Title 19 of the Kern County Zoning Ordinance will not be approved. Accordingly, Alternative 1 assumes that Chapter 19.98 of the Kern County Zoning Ordinance will not be amended to establish updated development standards and conditions to address environmental impacts of pre-drilling exploration, well drilling and the operation of wells and other oil and gas production-related equipment and facilities, including exploration, production, completion, stimulation, reworking, injection, monitoring and plugging and abandonment. Moreover, Alternative 1 assumes that Chapter 19.98 of the Kern County Zoning Ordinance will not be amended to establish a new "Oil and Gas Conformity Review" ministerial permit procedure for County approval of future well drilling and operations to ensure compliance with the updated development standards and conditions and provide for ongoing tracking and compliance monitoring. Moreover, under Alternative 1, the Zoning Ordinance would not be updated to incorporate the Project's relevant proposed development standards into the County's Dark Skies Ordinance or the Zoning Ordinance provisions governing the Floodplain Primary District, the Petroleum Extraction (PE) Combining District, and Hillside Development.

Alternative 1 assumes that oil and gas development and production activities will continue in the Project Area in accordance with the existing Kern County Zoning Ordinance. As discussed in Chapter 3, Project Description, Section 19.98.020 of the existing Zoning Ordinance currently authorizes "unrestricted drilling," with no County permit required, in County lands zoned for Exclusive Agriculture (A), Limited Agriculture (A-1), Medium Industrial (M-2), Heavy Industrial (M-3) and Natural Resource (NR), subject to compliance with specified conditions and standards which augment those of DOGGR, the SJVAPCD, and applicable fire and safety ordinances and regulations of the County of Kern. Thus, in these zoning districts, no review or permit would be required under the "No Project" Alternative for the drilling of any well intended for the exploration for, or development or production of, oil, gas, and other hydrocarbon substances, or for any related accessory equipment, structure, or facility used as part of the oil and gas production process. However, per the existing Zoning Ordinance, under Alternative 1, drilling would continue to be prohibited within, at minimum, one hundred (100) feet of any existing residence without the written consent of the owner thereof.

Under Alternative 1, oil or gas exploration or production would continue to be allowed within the Floodplain Primary District (FPP), subject to the Special Review Procedures and Development Standards set forth in Zoning Ordinance Section 19.50.130. Moreover, oil or gas exploration or production would continue to be permitted within a Special Planning District (SP), provided it is consistent with the County General Plan land use designation applicable to the subject property and does not create a conflict with the public health, safety, and welfare.

In addition, under Alternative 1, drilling by "ministerial permit" will continue in several zoning districts pursuant to Zoning Ordinance Section 19.98.030. A "ministerial" permit requires an application and review process, but the County does not impose site-specific conditions in such permits and the Applicant is entitled to receive the permit once it demonstrates that relevant standards are met. Under Alternative 1, ministerial permits will continue to be required in the Light Industrial (M-1) and Recreation-Forestry (RF) Districts, subject to specified development standards, which will also continue to apply in Drilling Island (DI) Zone Districts and Petroleum Extraction (PE) Combining District.

Under Alternative 1, a Conditional Use Permit (CUP) will continue to be required for oil or gas exploration or production in all residential districts, including the Estate District (E), as well as in the Low, Medium, and High-Density Residential Districts (R-1, R-2, and R-3, respectively). A CUP will also continue to be required in commercial districts, including the Commercial Office District (CO), Neighborhood Commercial District (C-1), General Commercial District (C-2) and the Highway Commercial District (CH) as well as in the Platted Lands District (PL). Finally, under Alternative 1, oil and gas exploration or production will continue to be prohibited in Mobile Home Park District (MP) (Section 19.26.040) and in the Open Space District (OS) zoning districts (Section 19.44.040).

Alternative 1 is environmentally inferior to the proposed Project. As explained in Chapter 3, Project Description, the proposed Project would substantially amend sections of the Kern County Zoning Ordinance related to oil and gas exploration and production, including Chapter 19.98, Oil and Gas Production. In doing so, the Project would update and extend to all oil and gas exploration and production facilities development standards and conditions designed to avoid or minimize environmental impacts associated with pre-drilling exploration, well drilling, and the operation of well and other oil and gas production-related equipment and facilities. As discussed in EIR, Chapter 3, Project Description, the updated development standards and conditions include several new requirements that would avoid or minimize the impacts of oil and gas exploration and production related to land use, agricultural resources, biological resources, soils and geological resources, water resources, flooding, fire safety, odor management, noise, air quality, cultural resources, lighting, spill prevention and remediation measures, among other categories. The Project would also establish a new "Oil and Gas Conformity Review" procedure for County approval of future well drilling and operations to ensure compliance with the updated development standards and conditions, and to provide for ongoing tracking and compliance monitoring. If Alternative 1 were adopted, none of the Project's proposed development standards or conditions would be implemented in the County on a consistent basis for all new oil and gas wells in the future and, therefore, Alternative 1 would not achieve the same environmental benefits of the Project. Without implementation of the Project's proposed development standards and conditions, Alternative 1 would have greater environmental impacts than the Project in most impact categories, particularly with respect to impacts related to biological resources, hydrological resources, cultural resources, and noise.

If implemented, Alternative 1 would not achieve most of the Project objectives. Alternative 1 would not update the County's Zoning Ordinance to include additional procedures and compliance standards. Alternative 1 would not streamline the County's current energy regulations, nor would it promote sustainability and best management practices to the same extent as the Project. Compared to the Project, Alternative 1 would not ensure the protection of environmental resources by emphasizing the conservation of productive agricultural lands, the encouragement of planned urban growth, the promotion of clean air strategies, and the promotion of long-term water conservation strategies. Compared to the Project, Alternative 1 would not create an effective regulatory and permitting process for oil and gas exploration and production that can be relied on by the County, DOGGR, and other responsible agencies. Since Alternative 1 would not implement the Project's proposed development standards and conditions, it would not ensure future oil and gas development in a manner that avoids impairing the economic strength derived from residential developments, agricultural, rangeland, mineral resources, other amenities that exist in Kern County. Finally, Alternative 1 would not encourage ongoing economic development by the oil and gas industry that creates quality, high paying jobs and proposed capital investment in Kern County.

In sum, Alternative 1 is environmentally inferior to the Project and would not achieve most of the Project objectives, including its basic objective. Under "no project" conditions, Project activities occur in many zoning districts within the Project Area without any ministerial or discretionary review, based on prior determinations regarding the general land use compatibility of continued oil and gas extraction activities and the sufficiency of third-party expert agency regulations to protect human health and safety, and the environment. The basic project objective is to substantially expand the County's oversight and enforcement role with respect to new oil and gas well permitting, construction and operations, and to establish a ministerial oil and gas well permitting process that is procedurally structured to avoid imposing excessive administrative burdens, while assuring effective implementation and enforceability. This basic objective cannot be achieved if the Project is not approved and future well permits continue to be processed in accordance with existing zoning regulations.

Facts in Support of Finding: The EIR, including Section 6.0 of the Draft EIR, contains facts and analysis supporting the Finding, some of which are set forth here. Under Alternative 1, oil and gas development and production activities will continue in the Project Area in accordance with the existing Kern County Zoning Ordinance. However, Alternative 1 is environmentally inferior to the proposed Project. If Alternative 1 were adopted, none of the Project's proposed development standards or conditions would be implemented in the County on a consistent basis for all new oil and gas wells in the future. Without implementation of the Project's proposed development standards and conditions, Alternative 1 would have greater environmental impacts than the Project in most impact categories, particularly with respect to impacts related to biological resources, hydrological resources, cultural resources, and noise. Moreover, Alternative 1 would not achieve most of the Project objectives, nor its basic objective. Therefore, the Board hereby rejects Alternative 1.

Alternative 2: CUP Alternative

Finding: Under Alternative 2, the CUP Alternative, all new oil and gas exploration, development, and production activities would be permitted in the Project Area only upon County's issuance of a conditional use permit that authorizes such activities. Under Alternative 2, Chapter 19.98 of the Kern County Zoning Ordinance would be amended to eliminate its Sections 19.98.020 (Unrestricted Drilling) and 19.98.030 (Drilling By Ministerial Permit), and amend Section 19.98.040 to require a conditional use permit for new oil and gas development and production activities in the following zoning districts: Exclusive Agriculture (A); Limited Agriculture (A-1); Medium Industrial (M-2); Heavy Industrial (M-3); Natural Resource (NR); Light Industrial (M-1); Recreation-Forestry (RF); Estate District (E); Low, Medium, and High-Density Residential (R-1, R-2, R-3); Commercial Office (CO); Neighborhood Commercial (C-1); General Commercial (C-2); Highway Commercial (CH); Platted Lands (PL); Floodplain Primary (FPP); and Special Planning (SP). Conforming amendments would also be made to the Zoning Ordinance chapters applicable to each of the above zoning districts to clarify that oil and gas exploration, development and production activities are conditionally permitted uses within such districts. In effect, Alternative 2 would amend the Zoning Ordinance to eliminate all unrestricted, and ministerial approval of, oil and gas exploration, development, and production activities. Under Alternative 2, such activities would only be permitted upon issuance of a conditional use permit in all zoning districts, except the Mobile Home Park District (MP) and the Open Space District (OS), were new oil and gas development and production activities would continue to be prohibited.

Like the Project, Alternative 2 would amend Zoning Ordinance Chapter 19.98 to establish updated development standards and conditions to address environmental impacts of pre-drilling

exploration, well drilling and the operation of wells and other oil and gas production-related equipment and facilities, including exploration, production, completion, stimulation, reworking, injection, monitoring and plugging and abandonment. Unlike the Project, however, Alternative 2 would not amend the Zoning Ordinance to establish a new "Oil and Gas Conformity Review" procedure to ensure compliance with all of the updated development standards and conditions and provide for ongoing tracking and compliance monitoring. Instead, under Alternative 2, implementation of the updated development standards and conditions would occur on a case-by-case basis, as deemed necessary, through the standard conditional use permit approval and compliance monitoring processes.

Although, under Alternative 2, future oil and gas drilling projects in the County would require a discretionary conditional use permit approval from the County that would incorporate site-specific and project-specific conditions of approval to minimize or avoid each project's potential environmental effects, Alternative 2 is ultimately environmentally inferior to the proposed Project. The mitigation program that would be established by the Project would provide mitigation at levels in excess of that which would occur if new wells were subject to discretionary approval following individual environmental review. In this sense, the Project is environmentally superior to Alternative 2 and will better serve regional conservation priorities, such as those described in SJVAPCD's Climate Change Action Plan and air quality attainment plans. Alternative 2 would not achieve the Project's basic objective. Although Alternative 2 would update the County's Zoning Ordinance to include additional procedures and compliance standards for future permitting of oil and gas exploration and development, it would not streamline the County's current oil and gas permitting procedures because it would impose a lengthy and cumbersome discretionary permitting process on all new oil and gas development within the County. The County currently contains approximately 75 active oil and gas fields, and over 2,500 wells are drilled in the County every year. It is not practical to subject every well permit to an individual discretionary approval process, or for environmental reviews to be conducted on every single well or groups of wells. The County lacks the resources to process thousands of oil and gas Negative Declarations and/or EIRs each year. The economic consequences for operators would be severe, delaying drilling for many months during the preparation of costly individualized CEQA documents. Moreover, such individualized review would be highly repetitive, as the thousands of Negative Declarations and EIRs would re-analyze the same impacts and prescribe the same mitigation for each new well or group of wells throughout the County. Accordingly, the basic objective of the Project and this EIR is to eliminate time-consuming and costly discretionary reviews of individual well and field development activities by establishing a ministerial site plan review process which incorporates mitigation identified in this EIR. As such, future County actions processing individual site plans will not trigger further CEQA review by the County. In addition, in the vast majority of cases, this process will avoid the need for responsible agencies to prepare additional CEQA documents for individual well or field development proposals when they are considering the discretionary decisions within their respective jurisdictions. Only if the criteria for supplemental CEQA review under CEQA Section 21166 are met would additional review be necessary. (14 Cal. Code Regs. §§ 15096(e)(3), 15162.) Such streamlined permitting is a permissible objective reflecting land use policy decisions within the authority of a county board of supervisors. *San Diego Citizenry Group v. County of San Diego*, 219 Cal.App.4th 1 (2013). The basic objective of the Project cannot be achieved by Alternative 2, the CUP Alternative.

Facts in Support of Finding: The EIR, including Section 6.0 of the Draft EIR, contains facts and analysis supporting the Finding, some of which are set forth here. Under Alternative 2, the CUP Alternative, all new oil and gas exploration, development, and production activities would be permitted in the Project Area only upon County's issuance of a conditional use permit that

authorizes such activities. Alternative 2 would achieve not achieve the Project's basic objective and is environmentally inferior to the proposed Project. Therefore, the Board hereby rejects Alternative 2.

Alternative 3 - Reduced Ground Disturbance Alternative

Finding: Alternative 3, the Reduced Ground Disturbance Alternative, is identical to the Project, except that it would prohibit all new well drilling activities outside existing DOGGR-designated "Administrative Boundary" areas and would require subsurface oil and gas to be extracted from surface equipment located within such Administrative Boundary areas. This alternative would also limit the disturbance footprint on existing agricultural lands to requiring clustering of new wells in locations immediately adjacent to existing oil and gas equipment. As discussed in Chapter 3, Project Description, the vast majority of future oil and gas production in Kern County will occur in and adjacent to Administrative Boundary areas. Accordingly, this alternative assumes that subsurface oil and gas resources located outside of existing Administrative Boundary areas could still be accessed from inside existing Administrative Boundary areas through use of directional and horizontal drilling techniques. Thus, Alternative 3's restrictions on oil and gas exploration and development are assumed to be legally feasible.

Like the Project, Alternative 3 would amend sections of the Kern County Zoning Ordinance relating to oil and gas drilling, including Chapter 19.98 (Oil and Gas Production) to establish updated development standards and conditions to address environmental impacts of pre-drilling exploration, well drilling and the operation of wells and other oil and gas production-related equipment and facilities, including exploration, production, completion, stimulation, reworking, injection, monitoring and plugging and abandonment. Like the Project, Alternative 3 would amend Zoning Ordinance Chapter 19.98 to establish a new "Oil and Gas Conformity Review" ministerial permit procedure for County approval of future well drilling and operations within the Project Area to ensure compliance with the updated development standards and conditions and provide for ongoing tracking and compliance monitoring. Unlike the Project, however, no new ground disturbance from well drilling activities would be allowed outside existing Administrative Boundary areas.

Since Alternative 3 would restrict new oil and gas well surface development to locations within existing Administrative Boundary areas, it will result in less overall ground disturbance than would the Project, which allows for new well development both inside and outside of existing Administrative Boundary areas. Thus, Alternative 3 would have somewhat reduced impacts to agricultural resources, biological resources, aesthetic resources, and hydrologic resources as compared to the Project. Further, Alternative 3 would reduce the Project's significant and unavoidable cumulative aesthetic impacts, though not to a less than significant level.

In addition to its environmental benefits, Alternative 3 would create certain environmental impacts greater than those caused by the Project. If this alternative were adopted, the owners of mineral rights underlying outside of Administrative Boundary areas could only access their mineral interests, if at all, from adjacent lands that are located within an Administrative Boundary area through the use of directional and horizontal drilling techniques, which may not be technologically or economically feasible, depending on geologic conditions and location. Where feasible, the directional and horizontal drilling assumed by this alternative is reasonably expected to require longer drilling periods to reach the mineral source than would be necessary to complete a vertical well. Longer drilling periods mean increased levels of construction-related emissions. It is therefore reasonable to assume that directional and horizontal well development activities under this alternative would cause greater emissions than would occur if the wells were drilled

vertically under Project conditions. Thus, while this alternative would have the environmental benefit of impacting fewer acres of land, it would also exacerbate overall emissions of criteria pollutants for which the air basin is in nonattainment.

Alternative 3 would achieve most of the Project objectives. Alternative 3 would update the County's Zoning Code in a manner similar to the Project, though it would reduce the overall Project surface footprint. Alternative 3 would also encourage ongoing and increased economic development by the oil and gas industry in a manner consistent with the Project objectives, though not to the same extent as the Project. Like the Project, Alternative 3 would streamline the County's oil and gas regulations and environmental review processes. Alternative 3 would also help reduce California's dependence upon foreign sources of energy and would accommodate foreseeable need in appropriate locations, provided more oil and gas can be produced through increased horizontal and directional drilling techniques than would occur under the "No Project" scenario. Alternative 3 would also ensure the protection of environmental resources by emphasizing the conservation of productive agricultural lands and through the development and implementation of industry-wide best practices, performance standards, and mitigation measures, though it would have greater overall environmental effects in some impact categories than would the Project, as discussed above.

Nevertheless, Alternative 3 is not legally or economically feasible. Given the size and unconventional geology of the Project Area, it is reasonable to assume that, in some instances, the owners of mineral interests underlying lands outside of Administrative Boundary areas will not be able to feasibly exercise their mineral rights as a result of the drilling restrictions assumed by this alternative. In such cases, this alternative would arguably destroy all economically beneficial or productive use of such mineral interests, thus exposing the County to economic harm and unreasonable legal liability.

Pursuant to the Fifth Amendment to the U.S. Constitution (applicable to the states through the Fourteenth Amendment), and Article I, Section 19 of the California Constitution, zoning regulations may not be so oppressive that they effect a taking of private property without just compensation. *See Kavanau v. Santa Monica Rent Control Bd.* (1997) 16 Cal.4th 761, 859. This principle of law was first established in the seminal case *Pennsylvania Coal Co. v. Mahon*, wherein the U.S. Supreme Court held that a land use regulation that "goes too far" may effect a taking of that property, even though title to such property remains in private hands. *See* (1922) 260 U.S. 393, 415. Notably, in *Pennsylvania Coal*, the Court determined that a land use regulation prohibiting extraction of privately owned subsurface minerals did indeed "go too far" and effected an unconstitutional taking without just compensation. *Id.*

Since *Pennsylvania Coal*, both the United States Supreme Court and the California Supreme Court have established that a regulation that deprives "all economically beneficial or productive use" of private property effects a *per se* taking of such property. *See Kavanau* at 774 (*citing Lucas v. South Carolina Coastal Council* (1992) 505 U.S. 1003, 1015). Indeed, a regulation that stops short of destroying all economically beneficial use of private property may nevertheless effect a taking depending on the economic impact of the regulation, the extent to which the regulation interferes with distinct investment-backed expectations, and the character of the governmental action. *See Kavanau* at 775-776 (citing *Penn Cent. Transp. Co. v. N.Y.* (1978) 438 U.S. 104, 124). In either case, "the property owner may bring an inverse condemnation action, and if it prevails, the regulatory agency must either withdraw the regulation or pay just compensation. Even if the agency withdraws the regulation, the property owner may have the right to just compensation for the temporary taking while the regulation was in effect." *Id.* at 773

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As recognized by the California Supreme Court, the owner of a mineral interest "has a property right in oil and gas beneath the surface" that includes "the exclusive right to drill[.] ... This is a right which is as much entitled to protection as the property itself, and an undue restriction of the use thereof is as much a taking for constitutional purposes as appropriating or destroying it." *Bernstein v. Bush* (1947) 29 Cal.2d 773, 778 (internal citations omitted.) Thus, California courts have held that land use regulations that provide "no adequate means of protection or substitute for their right to extract oil" effects a compensable taking of private property. *See, e.g., Braly v. Board of Fire Com'rs. of City of Los Angeles* (1958) 157 Cal.App.2d 608, 616; *Bernstein v. Bush* (1947) 29 Cal.2d 773, 780. Similarly, federal law recognizes that owners of oil and gas interests "have the right to reduce to possession the oil and gas beneath the surface, and that they could not be absolutely deprived of that right without a taking of private property." *Ohio Oil Co. v. Indiana* (1900) 177 U.S. 190, 209. Alternative 3, if adopted, would deprive the affected mineral owners the right to extract oil and gas beneath the surface, effectively denying them "all economically beneficial or productive use" of their private property. Thus, under *Kavanau* and *Lucas*, adoption of this alternative would expose the County to potentially substantial legal liability.

Kern County leads the state in oil and natural gas production. Kern County produced 77% of California's in-state oil in 2012 and about 64% of the state's total natural gas. Kern County's Elk Hills oilfield is the state's top natural gas producer. Two other fields, South Belridge and Lost Hills, rank in the state's top five for gas production. The state's top five oil producing fields—Midway-Sunset, South Belridge, Kern River, Cymric, and Elk Hills—are located within the Project Area. Three of these fields—Midway-Sunset, South Belridge, and Kern River—are ranked in the top 10 producing oilfields in the nation. Specifically, Kern County produced 141.69 million barrels of oil and 143.16 million cubic feet of natural gas in 2012. The historic production of oil and natural gas in Kern County, from 2002 to 2012, is provided in Draft EIR Chapter 3, Project Description (Table 3-3). As of 2014, of the 100 administrative wellfields located within Kern County, 76 are active fields that continue to produce oil and natural gas.

Kern County is a leading oil-producing county in the nation, yielding approximately 145 million bbl of oil and 132 billion CF of gas annually, according to 2014 DOGGR data. These amounts represent 71% of California's oil production and 10% of the total U.S. oil production. Kern County produces 66% of the state's total gas production (KCEDF, 2015). The oil and gas industry has the highest gross domestic product and tax contribution level in the County. The industry generates significant regional economic activity. Extraction, production, refining, and petroleum product manufacturing result in highly tradable products that are consumed domestically and are also exported. These efforts produce high revenues, create high wage jobs, and contribute significant tax revenue to all levels of government. The impact of the oil and gas industry is very far-reaching. The approximately $3.8 billion paid in 2013 to local oil and gas employees creates a significant "ripple effect" phenomenon in the local economy. Direct activity includes the materials purchased and the employees hired by the industry itself. Indirect effects are those which stem from the employment and business revenues motivated by the purchases made by the industry and any of its suppliers. Increased output generates new money in the community, resulting in increased spending on new homes, durable goods such as cars and appliances, plus additional spending on restaurants and entertainment options.

In 2009, oil reserves in Kern County were estimated at 1,395,171 mbbl, as shown in Table Alt-1(a), below (DOGGR, 2009). Production information available from DOGGR between 2010 and 2014 shows that approximately 720 mbbl were extracted from oilfields in Kern County, for a total reserve of approximately 1,394,450 mbbl of oil, as shown in Table Alt-1(b), below (DOGGR, 2010, 2011, 2012, 2013, 2014). At the current price of $50 per barrel of oil, the Kern County

reserves estimated value is $62 billion, and at an average yearly (July 2014 – July 2015) price of $75.60 per barrel of oil the estimated value is $105 billion.

Table Alt-1(a):
2009 Kern County Oil Reserves

District 4	
Kern County Oil Field	**2009 Reserves mbbl**
Buena Vista	5,460
Cymric	78,784
Elk Hills	62,301
Fruitvale	9,173
Kern Front	17,990
Kern River	569,417
Lost Hills	123,699
McKittirck	13,574
Mount Paso	6,344
Mountain View	659
North Belridge	17,460
Round Mt.	7,113
Semitropic	310
South Belridge	482,887
Total	**1,395,171**

Table Alt-1(b):

District 4 Production from 2010 to 2014

(bbl)
148,949,301

143,286,239	
141,693,959	

Total Kern County taxable property value for the fiscal year beginning July 1, 2015 is $89.2 billion, representing an $8.5 billion decrease or a 9% decline from the prior fiscal year. A decline in overall Kern County assessed property values was anticipated due to the recent plunge in oil and gas prices and underscores the role of oil and gas as an economic asset in Kern County. The mineral roll represented approximately one third of assessed values for the 2014-2015 tax year but is down to less than one quarter of the county's total assessment for the new fiscal year, 2015-2016 (Kern County Assessor Recorder, http://www.recorder.co.kern.ca.us/). Based on one quarter of the County's total assessment, approximate mineral roll represents a value of $22.3 billion in Kern County, a sizable portion of which is located outside of Administrative Boundary Areas.

A complete ban of oil and gas activities within those portions of the Project Area outside of Administrative Boundary areas would cause enormous economic impacts throughout the County and the state and would adversely impact the investment-backed expectations of many Project Area mineral owners, including both individuals and companies. Even a moratorium on drilling outside of Administrative Boundary Areas would raise similar concerns regarding the County's ability compensate for lost value for the duration of the moratorium using General Fund proceeds derived in large part from taxes on oil and gas production. Mineral and petroleum resources are a fundamental element of Kern County's employment base and overall economy. As new recovery technologies come into use, petroleum extraction should continue its economic importance. Even as California ramps up state laws to promote renewable energy resources and alternative transportation fuels, experts continue to recognize that oil and gas production will continue to be critical, and domestic oil and gas production remains a vital national interest. In sum, a ban on oil and gas activity within the Project Area but outside of Administrative Boundary areas, as contemplated by Alternative 3, is not feasible within the meaning of CEQA.

Facts in Support of Finding: The EIR, including Section 6.0 of the Draft EIR, contains facts and analysis supporting the Finding, some of which are set forth here. Alternative 3 would prohibit all new well drilling activities outside existing DOGGR-designated "Administrative Boundary" areas and would require subsurface oil and gas to be extracted from surface equipment located within such Administrative Boundary areas. This alternative would also limit the disturbance footprint on existing agricultural lands to requiring clustering of new wells in locations immediately adjacent to existing oil and gas equipment. Although Alternative 3 would achieve most of the Project objectives, and would achieve some environmental benefits, these benefits are partially outweighed by this alternative's environmental costs. Alternative 3 would incentivize additional horizontal and directional subsurface drilling activity, as compared to the Project, that would generate greater air quality, greenhouse gas, and toxic air contaminant emissions than would the Project. More importantly, Alternative 3 is legally and economically infeasible because its adoption would conflict with applicable regulatory limitations, would have a significant adverse economic impact on a key County economic sector, and would imprudently expose the County to significant and unreasonable legal liability, as explained below. Since Alternative 3 is, in some respects, environmentally inferior to the Project, and is economically and legally infeasible, it is hereby rejected by the Board of Supervisors.

Alternative 4 – No Hydraulic Fracturing Alternative

Finding: Pursuant to its police power, the County has broad discretion to regulate oil and gas exploration and production activities within its jurisdiction. However, a local government's legal authority to regulate every step in the hydraulic fracturing process is the subject of legal disputes currently pending in certain California courts. Assuming the County has sufficient legal authority to regulate subsurface oil and gas exploration and development activities as contemplated by this alternative, Alternative 4, the No Hydraulic Fracturing Alternative, would implement the Project as proposed, except that it would amend Zoning Ordinance Chapter 19.98 to ban all hydraulic fracturing activities, a form of well stimulation, within the Project Area. In all other respects, the Alternative 4 is the same as the Project.

Alternative 4 would only prohibit hydraulic fracturing in the Project Area, but it would not prohibit acid fracturing or acid matrix well stimulation techniques. Were Alternative 4 approved, however, it is unlikely that its hydraulic fracturing ban would cause in increase in acid fracturing or acid matrix well stimulation in the Project Area. Hydraulic fracturing is a viable well stimulation treatment in diatomite subsurface formations, as explained in Section 4.9, Hydrology and Water Quality. In contrast, acid fracturing and acid matrix stimulation techniques are only viable in carbonate reservoir rocks and siliciclastic reservoir formations, respectively. Thus, acid fracturing and acid matrix techniques do not serve as viable substitutes for hydraulic fracturing. Moreover, as explained in Section 4.9, there are no carbonate reservoir rocks in Kern County oil and gas fields that would be subject to acid fracturing techniques, in any case. A ban on hydraulic fracturing may, however, cause an increased use of Enhanced Oil Recovery techniques in the Project Area.

For most impacts, Alternative 4 is environmentally comparable to the Project. Indeed, as explained in Section 4.9, Hydrology and Water Quality, most wells that are hydraulically fractured in the Project Area are shallow vertical wells installed in diatomite subsurface formations located in the Western Subarea. Accordingly, in the Central and Eastern Subareas, where little to no hydraulic fracturing is expected to occur, Alternative 4 is essentially the same as Project and would cause generally identical impacts as the Project. Even in the Western Subarea, Alternative 4's environmental effects related to aesthetic, agricultural, and forest resources, biological resources, cultural resources, geology and soils, land use and planning, mineral resources, noise, population and housing, public services, recreation, and utilities and service systems would be generally the same as the Project.

Alternative 4 would achieve most of the Project objectives to some degree. Alternative 4 would update the County's Zoning Code in a manner similar to the Project, though it would also ban hydraulic fracturing in the Project Area. Alternative 4 would also encourage ongoing and increased economic development by the oil and gas industry in a manner consistent with the Project objectives, though not to the same extent as the Project (unless increases in EOR activities spurred by Alternative 4 are able to offset any decrease in oil and gas production caused by a hydraulic fracturing ban). This alternative would also protect areas of important mineral, petroleum, and agricultural resource potential for future use by promoting sustainability and encouraging best management practices. Like the Project, Alternative 4 would streamline the County's oil and gas regulations and environmental review processes. Alternative 4 would also help reduce California's dependence upon foreign sources of energy and would accommodate foreseeable need in appropriate locations, but perhaps not to the same degree as the Project. Finally, Alternative 4 would ensure the protection of environmental resources through the development and implementation of industry-wide best practices, performance standards, and mitigation measures, though it may have greater overall environmental effects in some impact categories than would the Project.

Approval of the No Hydraulic Fracturing alternative would likely cause an increase in greenhouse gas emissions, without a reduction in other adverse impacts. As explained by the California Council on Science & Technology (CCST) in its recent study, *An Independent Scientific Assessment of Well Stimulation in California*, "[t]he majority of impacts associated with hydraulic fracturing are caused by the indirect impacts of oil and gas production enabled by the hydraulic fracturing." According to the CCST, "all oil and gas development causes similar impacts whether the oil is produced with well stimulation or not." The exception to this general rule, however, concerns greenhouse gas emissions.

According to CCST:

> Fields with lighter oil result in low emissions per barrel of crude produced, while fields with heavier oil have higher emissions because of the need for steam injection during production as well as more intensive refining needed to produce useful fuels such as gasoline. Well stimulation generally applies to reservoirs with lighter oil and consequently smaller greenhouse gas burdens per unit of oil. Oil and gas from San Joaquin Basin reservoirs using hydraulic fracturing have a relatively smaller carbon footprint than oil and gas from reservoirs such as those in the Kern River field that use steam flooding. If well stimulation were disallowed and consumption of oil and gas in California did not decline, more oil and gas would be required from non-stimulated California fields ..., possibly with higher emissions per barrel. Consequently, overall greenhouse gas emission due to production could increase if well stimulation were stopped in California.

Thus, if well stimulation were disallowed, as contemplated by the No Hydraulic Fracturing Alternative, more oil and gas would be required from non-stimulated California fields. This would likely result in an overall increase in greenhouse gas emissions, without an overall increase in other adverse environmental impacts. Accordingly, the No Hydraulic Fracturing Alternative would be environmentally inferior to the Project in terms of air quality impacts.

Moreover, Alternative 4 is legally infeasible. Local legislation that conflicts with state law is preempted and void. *Conejo Wellness Ctr., Inc. v. Agoura Hills* (2013) 214 Cal. App. 4th 1534, 1552. A conflict can occur if the local ordinance duplicates state law, contradicts state law or enters an area or field fully occupied by state law. *Id.* "Local legislation enters an area or field that is 'fully occupied' by state law when the Legislature has either expressly manifested its intent to fully occupy the area or has impliedly has done so." *Id.* "Implied preemption occurs when: (1) general law so completely covers the subject as to clearly indicate the matter is exclusively one of state concern; (2) general law partially covers the subject in terms clearly indicating a paramount state concern that will not tolerate further local action; or (3) general law partially covers the subject and the adverse effect of a local ordinance on transient citizens of the state outweighs the possible municipal benefit." *Big Creek Lumber Co. v. Santa Cruz* (2006) 38 Cal. 4th 1139, 1157–1158.

The California Attorney General has concluded that, through enactment of the comprehensive California oil and gas laws set forth in Division 3 of the Public Resources Code, commencing with section 3000, and its implementing regulations, the State had completely covered the field with respect to "down-hole or subsurface" oil and gas operations:

> In our view, the conservation and protection of the state's finite energy resources, by means of regulatory policy reviewed herein, transcends local boundaries and interests. Oil, gas and geothermal resources are flung far and wide around the

> state; to leave the simultaneous regulation of their development to various local entities would subject development of the state's fuel resources to [a] "checkerboard of regulations[.]" ... Such local regulation could obviously interfere with and frustrate the state's conservation and protection regulatory scheme reviewed above. This "checkerboard" problem seems highlighted by the fact that this state's deposits of energy resources do often extend under the boundaries of several local entities as, for example, in the Los Angeles basin. In our view, the drilling and production of energy resources represents an endeavor of commercial activity that commands uniform regulation. ... The statutory and administrative regulatory scheme outlined above reveal to us a comprehensive purpose and scope broad enough to exclude local regulation in each instance where the [State Oil & Gas] Supervisor or his regulatory program approves or specifies plans of operation, methods, materials, procedures or equipment to be used by the operator or where activities are to be carried out under the direction of the Supervisor as part of the Supervisor's regulation for purposes of conservation or protection of resources.

59 Ops. Cal. Atty. Gen. 461, Opinion No. 76-32 (Aug. 24, 1976) at 477-478. On this basis, the Attorney General concluded that the state oil and gas laws "appear to occupy fully the underground phases of oil and gas activities" and that, "in all probability there will in our view be a [preemptive] conflict with state regulation when a local entity, attempting to regulate for a local purpose, directly or indirectly attempts to exercise control over subsurface activities." *Id.* at 478.

With the recent enactment of SB 4 and the California Department of Conservation, Division of Oil Gas and Geothermal Resources' (DOGGR's) permanent WST regulations, the level of complexity, detail, and comprehensive quality of the State oil and gas laws has only increased since the Attorney General first concluded that local down-hole regulation of oil and gas activities is preempted by state law. The complexity and specificity of SB 4 and its implementing regulations are described in detail on Draft EIR pages 4.9-108 through 4.9-109. This new mandatory regulatory program only reinforces the Attorney General's prior determination that the State's statutory and administrative regulatory scheme governing subsurface oil and gas activities presents "a comprehensive purpose and scope broad enough to exclude local regulation[.]" Accordingly, County regulations limiting subsurface WST operations would be preempted. Kern County retains its police power, and may enact laws in furtherance of public health, safety and the general welfare, including ordinances regulating oil and gas activities at the surface. However, the County is prohibited from enacting laws that ban or control WST operations in areas where oil and gas operations are allowed to take place. In addition, to the extent the Alternative 4, the No Hydraulic Fracturing Alternative would deny affected mineral rights holders all economically beneficial or productive use of such mineral rights, then such alternative would be legally and economically infeasible for the same reasons described above for Alternative 3.

Facts In Support of Finding: The EIR, including Section 6.0 of the Draft EIR, contains facts and analysis supporting the Finding, some of which are set forth here. Alternative 4 would implement the Project as proposed, except that it would amend Zoning Ordinance Chapter 19.98 to ban all hydraulic fracturing activities, a form of well stimulation, within the Project Area. Although Alternative 4 would achieve most of the Project objectives to some degree and reduce some of the Project's significant effects, it would also cause an increased use of Enhanced Oil Recovery techniques in the Project Area, which would in turn cause a corresponding increase in the emission of greenhouse gases and criteria air pollutants, as compared to the Project. Moreover, Alternative 4 is legally and economically infeasible. Therefore, the Board hereby rejects Alternative 4.

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Alternative 5 – Low-Emission Enhanced Oil Recovery (EOR) Technology Alternative

Finding: Alternative 5, the Low-Emission Enhanced Oil Recovery (EOR) Alternative, is identical to the proposed Project, except that the updated development standards and conditions required by the Project's proposed Zoning Ordinance amendment would be expanded to require oil and gas well permit applicants to implement low-emission EOR technology as a condition of permit approval for new and replacement steam generators, and to replace existing steam generators constructed prior to 1990 within five years of enactment of the amended Ordinance. As explained in Chapter 3, Project Description, EOR is a production technique used to increase the mobility of oil, most commonly through steam injection techniques that reduce the viscosity of the hydrocarbons and allow produced fluids to flow. There are four major types of EOR operations: waterflood; thermal (i.e., steamflood, cyclic steam and in-situ combustion); CO_2 or other gas (miscible and immiscible); and chemical/polymer flooding (i.e., alkaline flooding or micellar-polymer flooding). With thermal EOR, steam is injected into a well, which necessitates the installation of steam generators at the well. Steam generators are large heaters that generate steam, usually from produced groundwater. Under Alternative 5, all new and replacement steam generators for thermal EOR activities would be required to implement lower-emission steam generation technology, such as, by way of example, the ClearSign Duplex Tile combustion technology or similar technologies. In all other respects, Alternative 5 would be identical to the Project.

Alternative 5's environmental effects would be generally the same as the Project, except Alternative 5 would have reduced air quality and greenhouse gas impacts, as compared to the Project. With respect to new Project-level emissions, Alternative 5 and the Project, as mitigated, would have similar air quality and greenhouse gas impacts. However, Alternative 5's additional requirement that certain existing pre-1990 steam generators be replaced within five years of enactment of the amended Zoning Ordinance would further reduce emissions that are included in the baseline emissions inventory, a reduction that would not occur under Project conditions. In addition, it is expected that Alternative 5's required low-emission steam generation technology would be more fuel efficient than Project technology, thus reducing overall fuel transportation and handling impacts, as compared to the Project. Alternative 5 is not expected to cause any environmental impacts that would be greater than those caused by the Project.

Alternative 5 would meet most of the Project objectives. This alternative would update the County's Zoning Ordinance to include additional procedures and compliance standards that address changes in laws and regulations by other agencies, and it would continue to improve and streamline current energy regulations and increase County monitoring and involvement in state and federal energy legislation. Alternative 5 would also protect areas of important mineral, petroleum, and agricultural resource potential for future use by promoting clean air strategies to address existing air quality issues. Alternative 5 would provide sufficient new development within an area large enough to meet generous projections of foreseeable need but in locations that will not impair the economic strength derived from residential developments, agriculture, rangeland, mineral resources, or diminish the other amenities that exist in Kern County. Alternative 5 would also create an effective regulatory and permitting process for oil and gas exploration and production that can be relied on by the County and other responsible agencies, and it would develop industry-wide best practices, performance standards and mitigation measures that ensure adequate protection of public health and safety and the environment. Finally, this alternative also has the potential to increase oil and gas exploration and production in Kern County as a means of (i) reducing California's dependence upon foreign sources of energy, and (ii) increasing employment opportunities and economic prosperity to Kern County's residents, businesses, and local government.

However, Alternative 5 is not technologically or economically feasible. Low-emission steam generation technologies are still in the demonstration and prototype phase. ClearSign Duplex (CSD) technology, which is referenced as a possible technology in Alternative 5, involves ceramic tile and burner modification. One operator (Aera) is conducting pilot testing of CSD. At least one other operator (Chevron) is considering pilot testing low-emission steam generation technologies. All technologies currently under consideration require additional testing and validation in actual operating conditions and environments before they can be considered field-proven.

Long-term effectiveness and commercial viability of either technology still remain to be determined, and no company has deployed either technology to date. Furthermore, because the technologies are still in development, the cost of installing the equipment is high compared to the resulting emissions decreases. As such, the technology is not yet readily available on a commercial scale for implementation in oil and gas production in Kern County. The technological infeasibility of Alternative 5 is further demonstrated by the current Best Available Control Technology (BACT) Guideline for oilfield steam generators in the San Joaquin Valley Air Pollution Control District (SJVAPCD). The federal Clean Air Act requires implementation of BACT, defined as an emission limitation that the relevant permitting entity "determines is achievable." 42 USC § 7479. Similarly, the SJVAPCD defines BACT as the most stringent emission limitation or control technique (1) achieved in practice; (2) contained in any State Implementation Plan, if presently achievable; (3) contained in an applicable New Source Performance Standard; (4) "Any other emission limitation or control technique, including process and equipment changes of basic or control equipment, found ... to be cost effective and technologically feasible ..." Rule 2201, Section 3.10. The SJVAPCD BACT guideline was last updated in March of 2014 and currently requires 6 ppm NOx at 3% O_2 for steam generators that operate at 85 MMBtu/hr; and 7 ppm NOx at 3% O_2 for steam generators that operate at less than 85 MMBtu/hr.[1] By comparison, the low-emission steam generation technology contemplated by Alternative 5 would be expected to achieve rates comparable to or lower than 5 ppm NOx at 3% O_2 for steam generators operating at 55 MMBtu/hr. The fact that the rates in the current SJVAPCD BACT guideline are higher than what is contemplated by Alternative 5 further supports the conclusion that the technology required by Alternative 5 has not yet been achieved in practice, has not been shown to be presently achievable and is not technologically feasible. Alternative 5 is therefore properly rejected as an alternative. Moreover, at such time as the SJVAPCD determines that low-emission steam generation technology has become feasible, it would be expected to update its BACT guidelines accordingly.

Facts In Support of Finding: The EIR, including Section 6.0 of the Draft EIR, contains facts and analysis supporting the Finding, some of which are set forth here. Alternative 5, is identical to the proposed Project, except that it would require oil and gas well permit applicants to implement low-emission EOR technology as a condition of permit approval and to replace existing steam generators constructed prior to 1990 within five years of enactment of the amended Ordinance. Alternative 5 would meet most of the Project objectives and it would further reduce emissions that are included in the baseline emissions inventory, a reduction that would not occur under Project conditions. In addition, it is expected that Alternative 5's required low-emission steam generation technology would be more fuel efficient than Project technology, thus reducing overall fuel transportation and handling impacts, as compared to the Project. As explained below, Alternative 5 is the environmentally superior alternative to the Project.

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[1] http://www.valleyair.org/busind/pto/bact/bactLoader.htm.

However, for the reasons discussed above, Alternative 5 is neither technologically nor economically feasible..

Alternative 6 – Recycled Water Alternative

Finding: Under Alternative 6, the Recycled Water Alternative, the Applicants would be required to treat an amount produced water that is currently being disposed of via underground injection wells which is equivalent to the amount of M&I water used in Applicant's operations. The produced water reuse goal is 30,000 acre-feet per year, which would offset more than the current use of imported water and groundwater from non-oil bearing zones by the oil and gas industry. Such produced water would be required to be treated, recycled and put to an alternate use such as agricultural irrigation to the extent feasible. Under Alternative 6, Applicants would be required to fund treatment and conveyance facilities for produced water for local re-use (such as agricultural irrigation). For purposes of analysis in this EIR, this Alternative assumes that water treatment facilities would be located in Tier 1 areas more than 1000 feet away from the nearest sensitive receptor, that treatment facilities would be subject to New Source Review permit requirements (where applicable) including use of best available control technology to minimize air emissions, that remaining criteria and GHG emissions would be fully offset, and that waste products (including residuals from treated produced water) would be disposed of in accordance with applicable law. In all other respects, Alternative 6, the Recycled Water Alternative, is identical to the proposed Project.

Alternative 6 would meet most of the Project objectives. For example, this alternative would update the County's Zoning Ordinance to include additional procedures and compliance standards that address changes in laws and regulations by other agencies, and it would continue to improve and streamline current energy regulations and increase County monitoring and involvement in state and federal energy legislation. Alternative 6 would also protect areas of important mineral, petroleum, and agricultural resource potential for future use by promoting long-term water conservation strategies which will ensure the quality and adequacy of surface and groundwater supplies for future growth of all of Kern County's industries. Alternative 6 would provide sufficient new development within an area large enough to meet generous projections of foreseeable need but in locations that will not impair the economic strength derived from residential developments, agriculture, rangeland, mineral resources, or diminish the other amenities that exist in Kern County. Moreover, Alternative 6 would create an effective regulatory and permitting process for oil and gas exploration and production that can be relied on by the County and other responsible agencies, and it would develop industry-wide best practices, performance standards and mitigation measures that ensure adequate protection of public health and safety and the environment.

Further analysis of Alternative 6 in response, in part, to comments on the Draft EIR indicates that this alternative is environmentally inferior to the Project in important respects and not legally, economically or technologically feasible. The reuse of treated produced water would, in many cases, significantly increase costs, and could result in increased chemical use, longer and more intensive surface activities, and the need for additional permitting processes to avoid adverse secondary environmental impacts. Moreover, in comments on the Draft EIR, DOGGR has expressed concerned that the reuse of produced water, as contemplated by this alternative, may contribute to land subsidence in the Project Area, as explained below.

Produced water is currently used for some oilfield activities, such as discharge for dust suppression, but increasing that use beyond existing levels would require additional permitting and approvals to avoid impacts to biological, water and other resources. While the oil and gas

industry in Kern County has been working with the Regional Water Quality Control Boards to increase the treatment and use of produced water for dust suppression and other oilfield activities, there are regulatory hurdles to increasing use of produced water and it is uncertain whether and to what extent additional use of produced water will be permitted by the Boards. As such, a requirement to substitute produced water, as contemplated by Alternative 6, is currently legally infeasible.

While oil and gas operators may be able to utilize additional produced water for some oilfield activities – as contemplated by Mitigation Measures 4.17-2, 4.17-3 and 4.17 – not all oilfield activities are able to use produced water. For some oilfield activities, such as drilling and abandonment work, the use of fresh water is required to properly formulate the cement mixtures that are needed to safely drill and abandon wells. Using produced water for these activities would jeopardize operators' ability to comply with well specifications provided for in DOGGR regulations.

Certain enhanced oil recovery (EOR) operations, such as steam generation, can require higher-quality water supplies than are typically obtained from treated produced water in order to avoid equipment corrosion or damage and potential chemical interactions. Use of produced water in these operations can also lead to increased need for equipment maintenance due to, for example, silica buildup or tube failures in boilers. Even when produced water can be used in EOR operations, water losses in the oil production cycle—due to losses on the surface, in the geological zones, or otherwise—typically necessitate the use of some fresh or brackish "make up" water from a surface or subsurface source. Depending on the nature of the operation, "make up" water often represents between 10 and 25 percent of the water used.

Additionally, the lack of infrastructure linking sources of produced water to the locations where water may be used, particularly in cases of new exploration, can result in increased truck trips and other more significant impacts associated with transporting produced water to operation sites. For example, pilot EOR projects typically cannot use recycled water due to the early stage of project development, which results in a lack of available recycled water. Furthermore, the treatment of water for reuse requires specialized equipment, consumes energy, and generates waste. In many cases, operators have also contracted with local water purveyors to utilize some supply of purchased water over a long-term contract; cancellation of such contracts would also create negative financial impacts for the region.

In addition, the use of produced water specifically for well stimulation treatments would significantly increase chemical use as well as costs. Chemicals used in fracture treatments impart viscosity for proppant transport and fracture geometry creation and improve post-treatment production results by minimizing polymer plugging and other phenomena detrimental to production. Using produced water instead of fresh water as a base fluid for fracture treatments would increase the chemical volumes needed to fulfill these functions. Produced water use for fracture treatments could require as much as a five-fold increase in buffering agents, and additional chelating agents, clay and scale inhibitors, and surfactants to prevent emulsions and reduce surface tension may also be needed to minimize production complications that would be caused by the use of produced water. While produced water could be pre-treated to require fewer chemicals during the fracture treatment itself, such pre-treatment conditioning would also involve more chemicals, equipment, or both, to obtain water sufficient for use in the fracture treatment. Because of these complications, a typical fracturing operation would become significantly more expensive, and often uneconomic.

In addition, for some types of well stimulation, such as matrix acid stimulation, it is technologically infeasible to utilize produced water. Typically, matrix acid stimulation employs hydrofluoric acid (HF acid), which can only be mixed with fresh water. If HF acid comes into contact with formation brine, insoluble precipitants form, limiting the effectiveness of the acid stimulation system by plugging pore throats in the reservoir pore network. Such plugging can completely counteract the effects of the stimulation treatment. The reduction in the effectiveness of the treatment would require more frequent treatments, larger treatments, or both, which would lead to a significant increase in use of chemicals, emissions and heavy vehicle traffic hauling hazardous chemicals.

Finally, in its comment letter on the Draft EIR, DOGGR expresses its concern that the treatment and reuse of produced water for agricultural or other uses may adversely affect the balance between production and injection that needs to be maintained to prevent subsidence in the Project Area. DOGGR is mandated to prevent subsidence. It is concerned that, if produced fluids are redirected to other beneficial uses, there may not be fluid available to put to use in subsidence abatement. The County concurs with DOGGR's view that alternative uses of produced water should not be at the expense of other considerations that equally important, such as subsidence management.

In sum, while operators are working to increase their use of produced water for oil and gas operations in Kern County, issues ranging from harms caused by chemical interactions, the lack of availability of produced water at certain sites, the lack of distribution infrastructure to deliver treated produced water to other beneficial uses (and the increased cost and environmental impact of constructing such infrastructure), as this alternative's adverse impact on regional subsidence management, demonstrates that Alternative 6 is infeasible.

Facts in Support of Finding: The EIR, including Section 6.0 of the Draft EIR, contains facts and analysis supporting the Finding, some of which are set forth here. Under Alternative 6, applicants would be required to treat an amount produced water that is currently being disposed of via underground injection wells which is equivalent to the amount of M&I water used in Applicant's operations. Although Alternative 6 would meet most of the Project objectives, it will have greater adverse environmentally effects that the Proposed project in some impact categories and is legally and economically infeasible. Therefore, the Board hereby rejects Alternative 6.

Environmentally Superior Alternative

The State CEQA Guidelines require the identification of an environmentally superior alternative to the Project. (CEQA Guidelines, Section 15126.6(e)(2).) An environmentally superior alternative is an alternative to the Project that would reduce and/or eliminate the significant adverse environmental impacts associated with the Project without creating other significant adverse environmental impacts and without substantially reducing and/or eliminating the environmental benefits attributable to the Project. Selection of an environmentally superior alternative is based on an evaluation of the extent to which the alternatives reduce or eliminate the significant impacts associated with the Project and on a comparison of the remaining environmental impacts of each alternative.

Finding: As compared to the Project, Alternative 1, the No Project Alternative, would have greater impacts than the Project in most categories. Alternative 2, the CUP Alternative, could slightly reduce the Project's aesthetic impacts, but would also generate greater in environmental effects than the Project is multiple impact categories. As compared to the Project, Alternative 3, the Reduced Ground Disturbance Alternative, would have less impacts to aesthetic resources,

agricultural resources, cultural resources, and biological resources, but these environmental benefits would be offset by greater environmental impacts related to air quality, greenhouse gas emissions, noise, and traffic. Alternative 4, the No Hydraulic Fracturing Alternative, would have less water quality and hazards impacts than the Project, but would have greater impacts related to air quality and greenhouse gas emission than would the Project. As compared to the Project, Alternative 6, the Recycled Water Alternative, could have reduced water supply impacts, but may increase hydrology and water quality impacts related to the use of produced water for other beneficial uses., as compared to the Project. In addition, the construction of new water treatment facilities and the infrastructure required to distribute treated produced water to other beneficial uses would have greater impacts related to aesthetics, air quality, biological resources, cultural resources, greenhouse gas emissions, and noise, as compared to the Project.

The Board hereby finds that the environmentally superior alternative is Alternative 5, the Low-Emission EOR Technology Alternative. Compared to the Project, Alternative 5 would have less environmental effects related to criteria air pollutant and greenhouse gas emissions. Moreover, Alternative 5 would not result in any environmental impacts that are greater than those of the Project. However, for the reasons discussed above, Alternative 5 is neither technologically nor economically feasible

Section VII – Findings Regarding Recirculation of the Draft EIR.

The Board of Supervisors adopts the following findings with respect to whether to recirculate the Draft EIR. Under section 15088.5 of the CEQA Guidelines, recirculation of an EIR is required when "significant new information" is added to the EIR after public notice is given of the availability of the Draft EIR for public review but prior to certification of the Final EIR. The term "information" can include changes in the project or environmental setting, as well as additional data or other information. New information added to an EIR is not "significant" unless the EIR is changed in a way that deprives the public of a meaningful opportunity to comment upon a substantial adverse environmental effect of the project or a feasible way to mitigate or avoid such an effect (including a feasible project alternative) that the project's proponents have declined to implement. "Significant new information" requiring recirculation includes, for example, a disclosure showing that:

(1) A new significant environmental impact would result from the project or from a new mitigation measure proposed to be implemented.

(2) A substantial increase in the severity of an environmental impact would result unless mitigation measures are adopted that reduce the impact to a level of insignificance.

(3) A feasible project alternative or mitigation measure considerably different from others previously analyzed would clearly lessen the significant environmental impacts of the project, but the project's proponents decline to adopt it.

(4) The Draft EIR was so fundamentally and basically inadequate and conclusory in nature that meaningful public review and comment were precluded.

(CEQA Guidelines, § 15088.5.)

Recirculation is not required where the new information added to the EIR merely clarifies or amplifies or makes insignificant modifications in an adequate EIR. The above standard is "not intend[ed] to promote endless rounds of revision and recirculation of EIRs." (*Laurel Heights*

Improvement Assn. v. Regents of the University of California (1993) 6 Cal. 4th 1112, 1132.) "Recirculation was intended to be an exception, rather than the general rule." (*Ibid.*)

The Board of Supervisors recognizes that the Final EIR contains additions, clarifications, modifications, and other changes to the Draft EIR. Some comments on the Draft EIR either expressly or impliedly sought changes to proposed mitigation measures identified in the Draft EIR as well as additional mitigation measures. As explained in the Final EIR (Text Revisions), some of the suggestions were found to be appropriate and feasible and were adopted in the Final EIR. Where changes have been made to mitigation measures, these changes do not change the significance of any conclusions presented in the Draft EIR.

CEQA case law emphasizes that "'[t]he CEQA reporting process is not designed to freeze the ultimate proposal in the precise mold of the initial project; indeed, new and unforeseen insights may emerge during investigation, evoking revision of the original proposal.'" (*Kings County Farm Bureau v. City of Hanford* (1990) 221 Cal.App.3d 692, 736-737; see also *River Valley Preservation Project v. Metropolitan Transit Development Bd.* (1995) 37 Cal.App.4th 154, 168, fn. 11.) "CEQA compels an interactive process of assessment of environmental impacts and responsive project modification which must be genuine. It must be open to the public, premised upon a full and meaningful disclosure of the scope, purposes, and effect of a consistently described project, with flexibility to respond to unforeseen insights that emerge from the process. In short, a project must be open for public discussion and subject to agency modification during the CEQA process." (*Concerned Citizens of Costa Mesa, Inc. v. 33rd Dist. Agricultural Assn.* (1986) 42 Cal.3d 929, 936 (internal citations omitted).) Here, the changes made to the Draft EIR in the Final EIR are exactly the kind of revisions that the case law recognizes as legitimate and proper.

The Board of Supervisors finds that none of the revisions to the Draft EIR made by, or discussion included in, the Final EIR involves "significant new information" triggering recirculation because the changes do not result in any new significant environmental effects, substantial increase in the severity of previously identified significant effects, or feasible project alternatives that would clearly lessen the environmental effects of the project. Similarly, no documentation produced by, or submitted to, the County and relied on by the County after publication of the Final EIR, including but not limited to the Late Comments described above, identifies any new significant effect, substantial increase in the severity of any environmental effect, or feasible project alternatives that would clearly lessen the environmental effects of the project. All project modifications were either environmentally benign or environmentally neutral and all additional documentation relied on by the County merely clarifies or amplifies conclusions in the EIR, and thus represent the kinds of common changes that occur and supplemental information that is received during the environmental review process as it works towards its conclusion. Under such circumstances, the Board of Supervisors hereby finds that recirculation of the EIR is not required.

EXHIBIT B

STATEMENT OF OVERRIDING CONSIDERATIONS

State CEQA Guidelines Section 15093

For

REVISIONS TO THE KERN COUNTY ZONING ORDINANCE – 2015(C) PROJECT

California Independent Petroleum Association
Independent Oil Producers Association
Western States Petroleum Association

Final Environmental Impact Report

(SCH# 2013081079)

Lead Agency: Kern County Planning and Community Development Department

The California Environmental Quality Act (CEQA) requires a public agency to balance the benefits of a proposed project against its significant unavoidable adverse impacts in determining whether to approve a project. The Amendment to Title 19.98 and related provisions of the Kern County Zoning Ordinance (the Project) will result in environmental effects, which, although mitigated to the extent feasible by the implementation of mitigation measures required for the Project, will remain significant and unavoidable, as discussed in the Final Environmental Impact Report (EIR) and CEQA Findings of Fact. These impacts are summarized below and constitute those impacts for which this Statement of Overriding Considerations is made.

1. Although implementation of mitigation measures would reduce the adverse visual changes experienced at individual key observation point locations, there are no mitigation measures that would preserve the existing character and quality of the Project Area and its surroundings. Project-related oil and gas activities would continue to produce visible changes to the existing environment and the resultant visual impact is considered significant and unavoidable. The Project has the potential to create a new source of substantial light or glare that would adversely affect day or nighttime views in the area. After implementation of MM 4.1-6, this impact would remain significant and unavoidable.

2. The oil and gas industry has a visible presence on the landscape of the San Joaquin Valley Floor and, the Project in combination with the implementation of other reasonably foreseeable oil and gas projects will continue to result in adverse visible changes within Kern County. Therefore, the Project's cumulative contribution after implementation of the recommended mitigation measures would remain cumulatively significant and unavoidable as a result of these changes in visual character and quality.

3. The Project would continue to generate odors. With implementation of MM 4.3-7, impacts would still be significant and unavoidable.

4. The construction and operational activities of oil and gas activities that would be authorized under the Project would result in an increase of criteria pollutants (oxides of nitrogen [NOx], volatile organic compounds [VOC], carbon monoxide [CO], particulate matter less than 10 microns and less than 2.5 microns in diameter [PM10 and PM2.5, respectively]) in excess of the recommended criteria pollutant significance threshold adopted by the SJVAPCD Board. Emission sources in Kern County contribute between 11% and 21% of criteria pollutant emissions in the San Joaquin Valley Air Basin. The Project would contribute between 2% and 14% of these pollutants in the San Joaquin Valley Air Basin or between 19% and 97% of Kern County's contribution. This analysis indicates that most sulfur dioxide (SO2) emissions in Kern County would originate from oil and gas activities and the majority of NOX emissions. Therefore, the proposed Project would have a cumulatively considerable contribution of criteria pollutant (NOX, PM10, PM2.5, CO and SO2) emissions to the Kern County portion of the SJVAB.

5. The geographic scope for cumulative impacts to agricultural and forest resources encompasses the whole of Kern County. The oil and gas exploration and production activities that would be authorized through implementation of the proposed Project along with projected population growth could result in significant and unavoidable cumulative impacts on farmland conversion.

6. Future oil and gas exploration and production activities related to the proposed Zoning Ordinance amendment could contribute to a significant cumulative impact on Project Area biological resources because future use and development of federal, state, and incorporated urban lands are not within the County's jurisdiction or control. Future land uses and development could affect biological resources in each of these jurisdictions and would be undertaken as independent actions with associated impacts, avoidance and minimization requirements, and mitigation, if required, under applicable federal, state, regional and local agency law. Impacts would remain significant and unavoidable with mitigation.

7. While implementation of MM 4.5-1 through MM 4.5-5 would reduce Project impacts to a less than significant level, cumulative impacts to cultural and paleontological resources within and beyond the boundaries of the Project Areas (including on lands within incorporated cities and on lands owned by other government agencies) would be significant. The County lacks the jurisdiction and control over these other jurisdictions and thus cannot enforce cultural and paleontological resource mitigation measures to reduce cumulative cultural and paleontological impacts to a less than significant level.

8. The Project has the potential to conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases. With the implementation of MM 4.7-5, the impact would remain significant and unavoidable.

9. The geographic scope for cumulative impacts for GHGs includes the area within 6 miles of the external Project Area boundary, and areas (*e.g.*, incorporated cities) within the Project Area. Climate change impacts are inherently global and cumulative, and not Project specific. While implementation of MM 4.7-1 through MM 4.7-3 and the 2014 Regional Transportation Plan mitigation measures would encourage reduction in GHG emissions at a regional level, they do not provide a mechanism that guarantees GHG emission reductions on a cumulative basis. The Project's cumulative contribution after implementation of the recommended mitigation measures would remain cumulatively significant and unavoidable as a result of the GHG emissions associated with the Project.

10. Although MM 4.17-2 through MM 4.17-4 would encourage the additional reuse of produced water, the extent to which oilfield operators can increase produced water reuse and decrease municipal and industrial demand is uncertain. As a result, potential impacts to groundwater levels and aquifer volumes would be significant and unavoidable with mitigation.

11. Project hydrology and water quality impacts could be cumulatively considerable impacts and thus considered significant. Implementation of MM 4.9-1 through MM 4.9-6 would reduce potential cumulative impacts to water quality, erosion risks, flooding and other hydrologic resources to less than significant with mitigation. Although MM 4.17-2 through MM 4.17-4 encourage the additional reuse of produced water, the extent to which oilfield operators can increase produced water reuse and decrease municipal and industrial demand is uncertain. As a result, cumulative impacts to groundwater would be significant and unavoidable. The County lacks jurisdiction and control over land conversions, and actions or approvals by other agencies that may cause cumulatively significant impacts to hydrology or water quality in the region; accordingly, this impact remains significant and unavoidable.

12. Implementation of MM 4.17-2 to MM 4.17-4 could reduce water supply impacts, but the allocation of water supplies and water demands, the complex laws affecting water rights, the many water districts that have legal jurisdiction over one or more sources of water in the Project Area, the varied technical feasibility of treating produced water, and the produced water reuse opportunities all present complex variables that fall outside the scope of the County's jurisdiction or control under CEQA. Although mitigation measures would reduce Project water supply impacts, such impacts would remain significant and unavoidable after mitigation.

13. The geographic scope for cumulative impacts to utilities and service systems includes the area within 6 miles of the external Project Area. Cumulative impacts would be significant and unavoidable with respect to water supply, even with implementation of MM 4.17-1 through MM 4.17-5.

EXHIBIT B

Findings:

The Board of Supervisors finds and determines in approving the Project that the Final EIR has considered the identified means of lessening or avoiding the Project's significant effects and that to the extent any significant direct or indirect environmental effects, including cumulative project impacts, remain unavoidable or not mitigated to below a level of significance after mitigation, such impacts are at an acceptable level in light of the social, legal, economic, environmental, technological and other project benefits discussed below, and such benefits override, outweigh, and make "acceptable" any such remaining environmental impacts of the project (CEQA Guidelines Section 15092(b)).

The following benefits and considerations outweigh such significant and unavoidable adverse environmental impacts. All of these benefits and considerations are based on the facts set forth in the Findings, the Final EIR, and the record of proceedings for the Project. Each of these benefits and considerations is a separate and independent basis that justifies approval of the Project, so that if a court were to set aside the determination that any particular benefit or consideration will occur and justifies project approval, this Board of Supervisors determines that it would stand by its determination that the remaining benefit(s) or consideration(s) is or are sufficient to warrant project approval.

Facts:

Each benefit set forth below constitutes an overriding consideration warranting approval of the Project, independent of the other benefits, and the Board of Supervisors determines that the adverse environmental impacts of the Project are "acceptable" if any one of these benefits will be realized.

The benefits set forth below are more fully outlined in the Final EIR and in the attached independent report entitled *The Economic Contribution of the Oil and Gas Industry in Kern County.*

The Project will provide benefits to Kern County as follows:

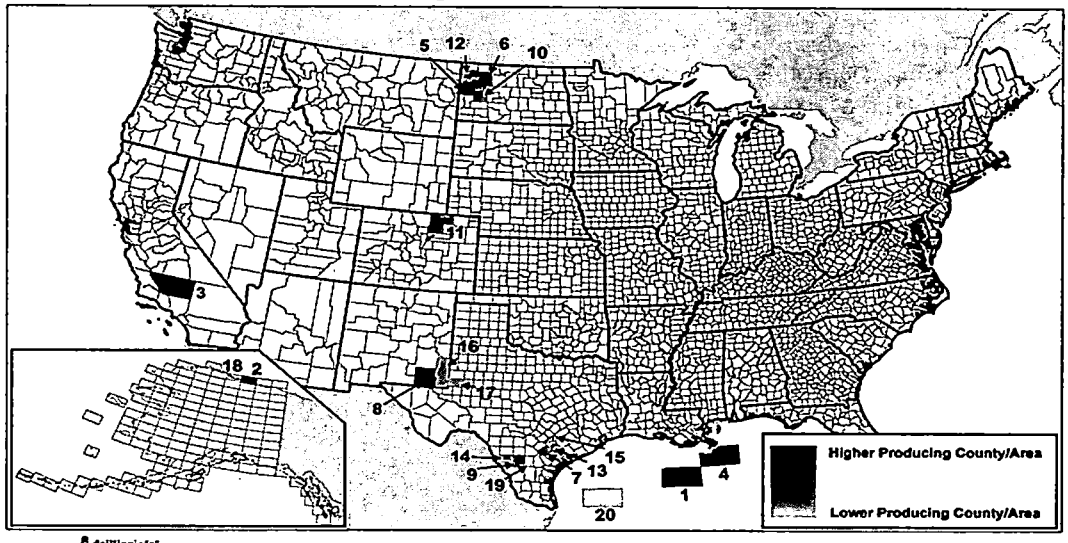
1. General Economic and Community Benefits of the Project to the County

Below are a few examples of how oil and gas companies contribute to the community and benefit the local economy. The Project, by spurring continued oil and gas activity in the County, ensures these benefits will persist.

EXHIBIT B

Kern is the leading oil-producing county in the nation, yielding 145 million bbl of oil and 132 billion CF of gas annually, according to 2014 DOGGR data:

Top 20 Oil Producing Counties/Regions



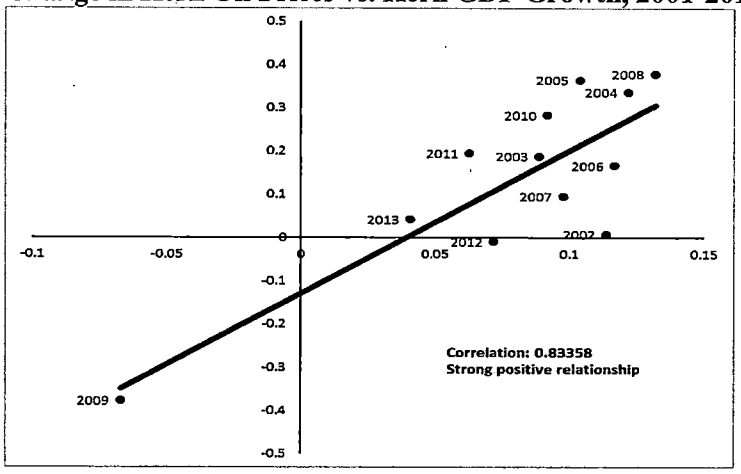
Top Producing Counties/Areas - 2013

These amounts represent 71% of California's oil production and 10% of the total U.S. oil production. Kern County produces 66% of the state's total gas production. The oil and gas industry is the number-one industry in Kern County in terms of gross domestic product and tax contributions. The industry generates significant regional economic activity. Extraction, production, refining, and petroleum product manufacturing result in highly tradable products that are consumed domestically and are also exported. These efforts produce high revenues, create high wage jobs, and contribute significant tax revenue to all levels of government. The impact of the oil and gas industry is very far-reaching. The approximately $3.8 billion paid in 2013 to local oil and gas employees creates a significant "ripple effect" phenomenon in the local economy. Direct activity includes the materials purchased and the employees hired by the industry itself. Indirect effects are those which stem from the employment and business revenues motivated by the purchases made by the industry and any of its suppliers. Increased output generates new money in the community, resulting in increased spending on new homes, durable goods such as cars and appliances, plus additional spending on restaurants and entertainment options.

EXHIBIT B

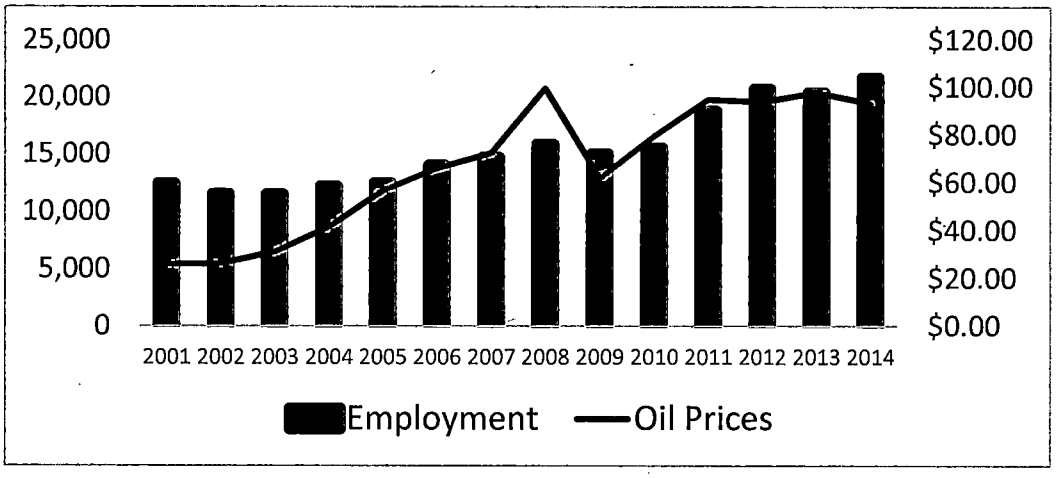
There is also a correlation between rising oil prices and regional economic growth. Seventy of GDP growth over the period 2001-2013 could be directly attributed to rising oil prices:

Change in Kern Oil Prices vs. Kern GDP Growth, 2001-2013



Local employment increases / decreases are associated with shifts in oil prices:

Kern County O&G Industry Employment vs. Kern Oil Prices, 2001-2014



Kern County's oil and gas industry also significantly impacts the community through its philanthropic activity and contributions to local education efforts. More than $5.5 million was donated to more than 130 local non-profits and educational programs in 2014. Kern County's two community colleges, California State University - Bakersfield, and K-12 funding are the most frequent beneficiaries of the financial support. Social service non-profits (*e.g.*, the Homeless Center / Alliance Against Family Violence) and health-related organizations (*e.g.*, the American Heart Association) also rank among the top recipients.

Several science, technology, engineering and math programs were started or sustained due to oil and gas industry funding at Taft College and Bakersfield College. California State University - Bakersfield opened its new Fabrication Lab in 2014 due, in large part, to oil and gas funding. These programs, plus others like a local welding program and a hands-on research program for high school students, help prepare students for a variety of careers. An industry-funded program at Taft College places students in

positions with local non-profit organizations; some are traditional students, and some are part of the Transition to Independent Living program which serves students with developmental / intellectual disabilities. The oil and gas funding provides wages for these students.

More than 15,000 oil and gas employee hours were volunteered for local programs in 2014, and the United Way states that oil and gas employees (plus oilfield service company employees) donated nearly $400,000 during the 2013/14 fiscal year.

2. Local Tax Revenues

As outlined in detail below, the oil and gas industry accounted for roughly 30% of the Kern County's $100 billion in property tax valuations in 2014. Taxes paid by the oil and gas industry play a major role in the support of local infrastructure, including schools, public safety, streets and roads, and parks. The Project will advance the continued production of oil and gas resources in Kern County, thereby securing an important local tax base.

Kern County Assessed Property Values, 2014

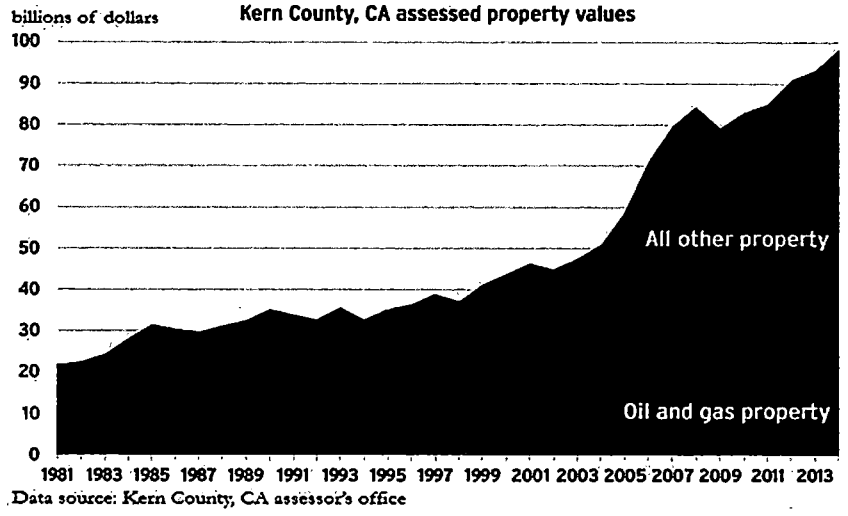


EXHIBIT B

Economic and Fiscal Contribution of the O&G Industry in Kern County, 2013

ECONOMIC CONTRIBUTION	Employment	Labor Income	Value Added	Output
Direct	23,857	$2,954.2	$4,891.6	$15,152.3
Indirect	7,073	$359.1	$517.7	$955.7
Induced	13,615	$508.0	$957.6	$1,580.8
TOTAL CONTRIBUTION	44,544	$3,821.4	$6,366.9	$17,689.1
Percent of Total CA Contribution	11.8%	11.6%	10.0%	9.2%
Percent of County Total	11.0%	17.0%	17.9%	27.0%

FISCAL CONTRIBUTION	State and Local ($ millions)	Federal ($ millions)	Total Taxes ($ millions)
Sales and excise taxes	$607.6	$164.7	$772.3
Property taxes	$285.6	-	$285.6
Personal income taxes	$117.2	$307.7	$424.9
Corporate profits taxes	$31.6	$125.2	$156.8
Social insurance taxes	$13.9	$387.9	$401.8
Other taxes	$63.6	$28.9	$92.5
Fees, fines and permits	$26.3	$7.3	$33.7
TOTAL TAX REVENUES	$1,145.7	$1,021.8	$2,167.5

Source: LAEDC

3. Local Job Creation

Kern County's oil and gas industry is a significant source of overall employment and also a provider of high-paying jobs that require moderate-to-high skill levels (*i.e.* jobs in technical and engineering occupations). The Project will ensure that these important opportunities continue to be available in Kern County.

Oil and gas-related employment accounts for approximately 1 in 7 jobs in the County. Almost all segments of the industry pay higher wages than the Kern County average. In some more specialized or highly-skilled areas, wages are triple the 2014 county average of $41,100. The oil and gas industry offers higher-than-average wages in Kern County. Oil and gas extraction, consisting of highly skilled engineering and geological jobs, was the highest-paying segment with an average annual salary of nearly $143,000. The average annual salary for the entire sector was $78,000, which is nearly double the "all industries" annual average of $41,100:

EXHIBIT B

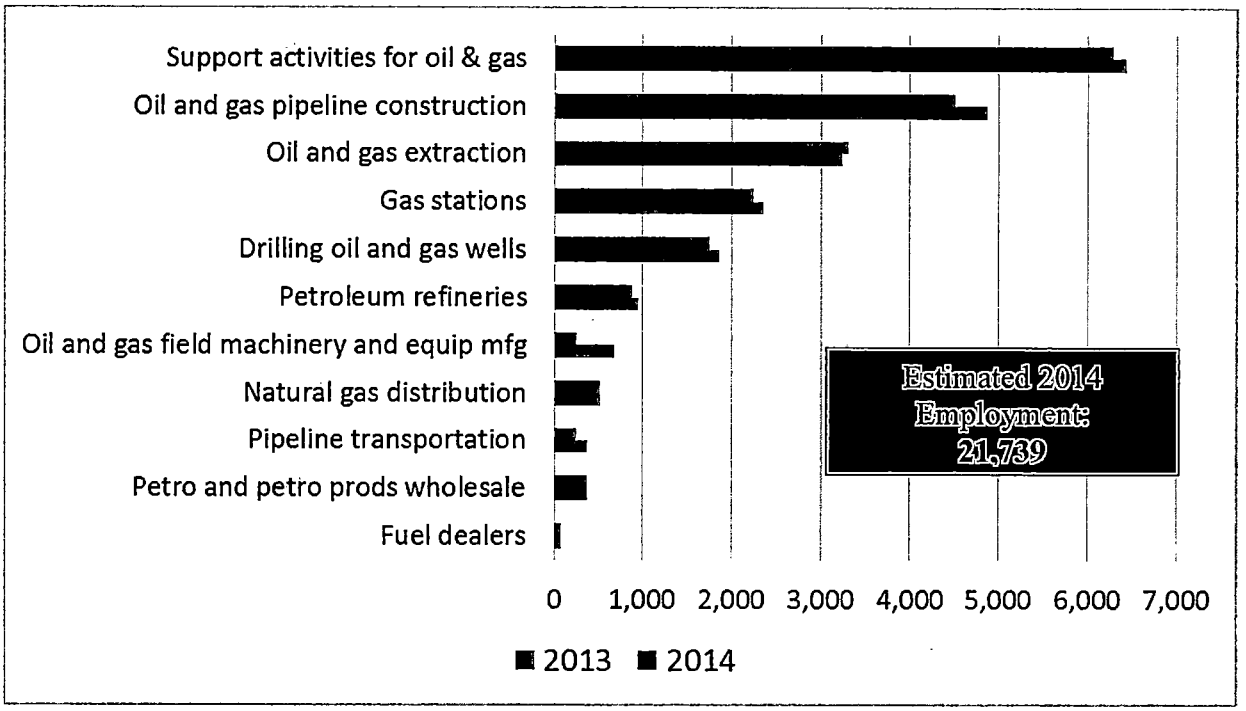
Kern County Oil and Gas Industry Annual Wages, 2014

NAICS Sub-Sector	Annual Establishments	Annual Average Direct Employment	Total Annual Wages	Annual Wages per Employee
NAICS 211 Oil and gas extraction	56	3,243	$462,232,109	$142,543
NAICS 213111 Drilling oil and gas wells	25	1,864	$149,487,414	$80,219
NAICS 213112 Support activities for oil and gas operations	112	6,432	$503,666,507	$78,307
NAICS 2212 Natural Gas Distribution	4	492	ND	ND
NAICS 23712 Oil and gas pipeline construction	20	4,876	$266,098,995	$54,574
NAICS 32411 Petroleum refineries	26	949	$119,544,267	$125,980
NAICS 333132 Oil and gas field machinery and equipment mfg	12	680	$43,305,000	$63,684
NAICS 4247 Petroleum merchant wholesalers	23	375	$25,277,050	$67,376
NAICS 447 Gasoline stations	199	2,349	$49,312,745	$20,992
NAICS 45431 Fuel dealers	11	74	$3,102,702	$42,071
NAICS 486 Pipeline transportation	13	376	$34,280,826	$91,152
Total, Oil and Gas Industry	**501**	**21,710**	**$1,656,307,615**	**$76,292**
Total, All Industries	16,267	254,620	$10,466,665,862	$41,107

Across the oil and gas industry in 2014, there were approximately 50,000 direct, indirect, and induced energy-related jobs in Kern County. Even using more conservative numbers (excluding indirect employment opportunities at gas stations, fuel dealers, petroleum wholesale, equipment manufacturing, pipeline construction and the like), the Final EIR estimates that 16,752 workers in Kern County were employed in the oil and gas extraction industry in 2012, with the state employment office measuring a steady increase of employment from 2002 to 2012 at which time growth stabilized around 12,000.

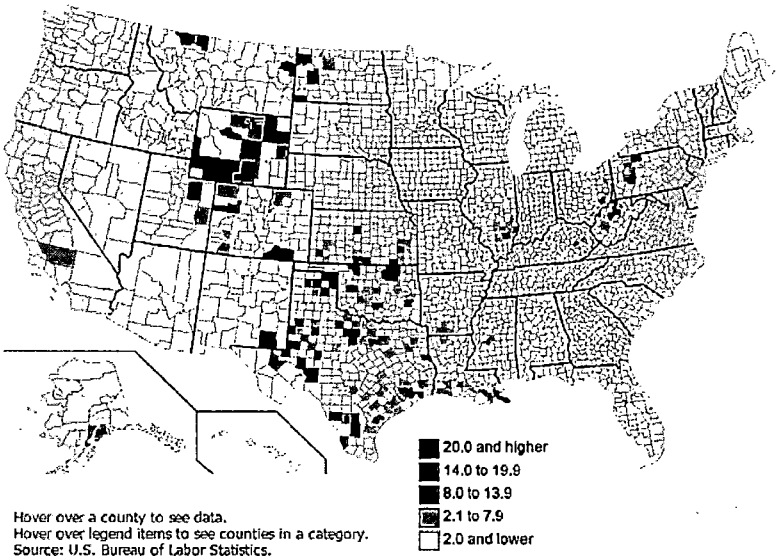
Oil and Gas Direct Employment in Kern County, 2013 vs. 2014

EXHIBIT B



Kern County is the only county in the western region with an above average concentration of oil and gas-related jobs. Kern County is heavily concentrated in oil and gas extraction as well as in oil and gas pipeline construction:

Counties with the Highest Relative Concentration of Employment (Location Quotient) in the Oil and Gas Extraction Industry, 2014



The oil and gas industry is one of the most impactful industry sectors on economic activity throughout the region:

Economic Impact of O&G Expenditures and Production

EXHIBIT B

Impact per $1 million of O&E Extraction Expenditures				
Impacts	***Jobs***	***Wages***	***Value Added***	***Gross Output***
Direct	1.39	$134,740	$395,179	$1,000,000
Indirect	2.44	$174,982	$278,836	$562,231
Induced	2.00	$102,470	$183,927	$305,457
Total	5.83	$412,191	$857,942	$1,867,688
Impact per $1 million O&E Production				
Direct	1.80	$133,757	$542,968	$1,000,000
Indirect	2.18	$157,460	$281,037	$469,367
Induced	1.83	$93,727	$168,233	$279,367
Total	5.80	$384,945	$992,238	$1,748,733

Source: Implan (CA Model)

Kern County recently ranked in the Top 10 in the U.S. in terms of upward mobility and in the overall concentration of science, technology, engineering and math jobs. A majority of Kern County's hi-tech employment is in the oil and gas industry (an estimated 65%), where most positions require technical degrees rather than advanced degrees. Bakersfield College is ranked 6th in the nation among similar schools with regard to which schools' graduates received "added value," based on their mid-career earnings levels. Bakersfield College students were predicted to earn $56,957 annually based on student characteristics and college type, but their mid-career salaries surpassed that prediction, coming in at an average of $67,200 (15% higher than predicted). California State University - Bakersfield also has graduates earning $75,400 at the mid-career point, 11.6% better than the predicted $66,599. The high performance of these colleges and their graduates was due to a combination of factors, including extensive science, technology, engineering and math curriculum in the schools, and the programs' proximity to energy employment centers.

4. Compliance with the Goals and Policies of the Kern County General Plan (General Plan) and Zoning Ordinance

The Project is consistent with various Goal and Policies of the Kern County General Plan, including:

- Protect areas of important mineral, petroleum, and agricultural resource potential for future use.
- Encourage safe and orderly energy development within the County, including research and demonstration projects, and to become actively involved in the decision and actions of other agencies as they affect energy development in Kern County.
- Support and work toward the elimination of disincentives for business and industry to prosper in Kern County, and create special economic development programs to encourage commerce and industry to locate in Kern County.
- Periodically review and update procedures for granting development approvals and permits and facilitate the processing of land use entitlements.

EXHIBIT B

The General Plan Energy Element notes the importance of the oil and gas industry to Kern County. The project will further the Goals and Objectives of the General Plan by enhancing the economic stability of the oil and gas industry in the County.

5. State, Regional and Federal Tax Revenue

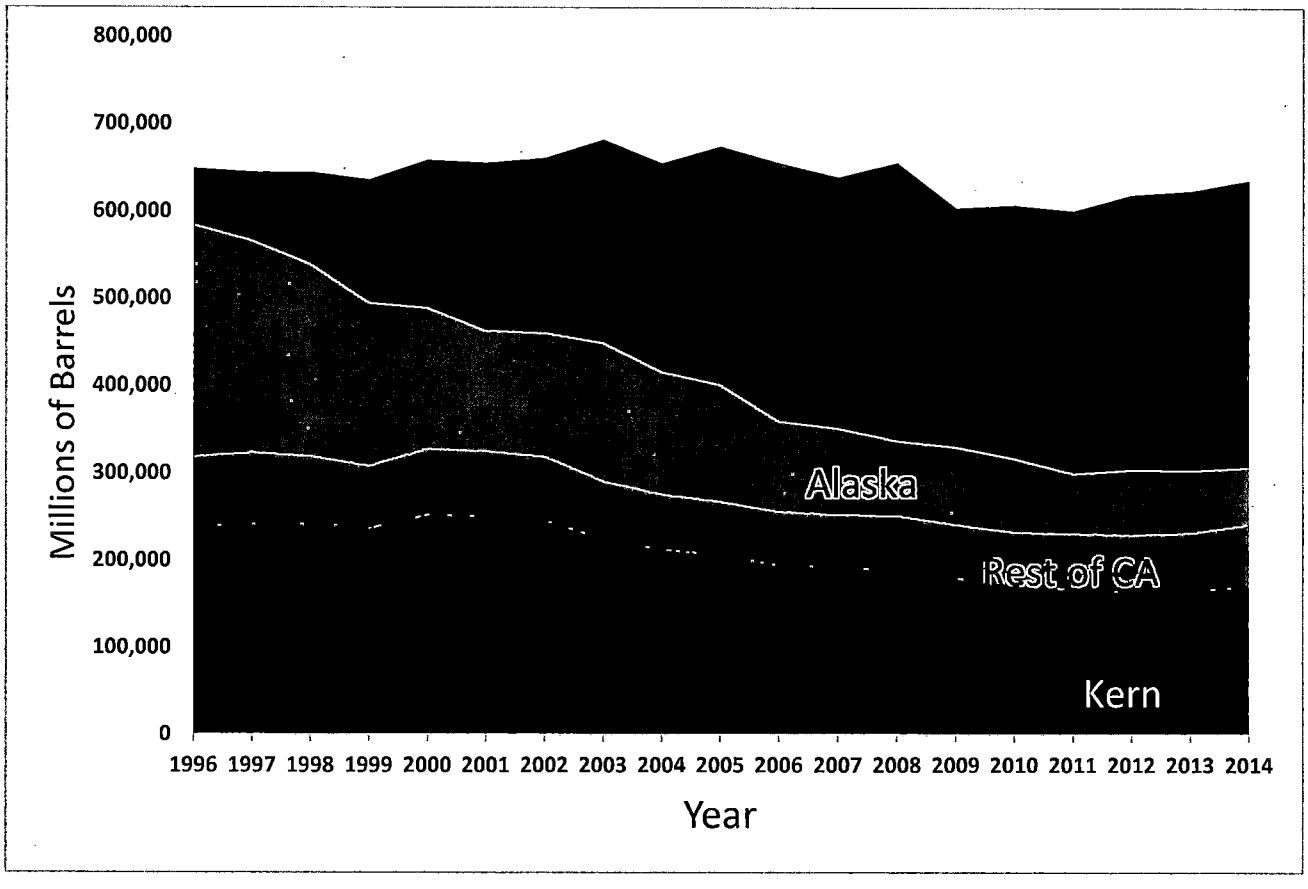
In 2013, economic activity associated with the oil and gas industry in Kern County is estimated to have generated $1.15 billion in state and local tax revenue, plus $1.02 billion in federal tax revenue. The Project will foster the continued production of oil and gas resources in Kern County, thereby securing an important source of tax revenue for California, the western region and the nation.

6. Energy Independence

The Project will allow California producers to better meet current demand and to keep pace with population growth. The Project will also help California to take steps toward strengthening its energy independence, which is financially and environmentally desirable.

California is currently a net importer of oil, producing only about 37 percent of the petroleum that it uses:

Sources Supplying Crude Oil to California Refineries



Dependence on foreign oil makes the state vulnerable to energy shortages and price spikes, and makes us dependent on foreign countries for energy. In addition, Californians then miss out on critical infrastructure funding since imported oil is exempt from California taxes (while high-paying oil and gas

jobs then go to foreign countries or other states). All oil and gas produced in California is used here and is produced under the most stringent regulations in the world.

Exhibit C **Mitigation Monitoring and Reporting Program for Kern County Gas & Oil Zoning Ordinance Environmental Impact Report**

Impact		Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
4.1	Aesthetics					
4.1-3	MM 4.1-1	The Applicant shall use existing roads to access oil production areas, or shall construct new roads (or extend existing roads) to minimize the amount of disturbance without impeding existing surface use.	Delineated on Site Plan; During construction and operation	Kern County Planning and Community Development Department (KC PCDD)		
			Steps to Compliance: A. The Applicant shall implement measures related to use of access roads as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
	MM 4.1-2	All derricks, boilers, and other drilling equipment used to drill, repair, clean out, deepen or redrill any well with oil, gas, or other hydrocarbon shall be removed from the drill site within 90 days after completion of production tests or after abandonment of any well. Earthen sumps used in drilling shall be filled within 90 days after any well has been placed in production (unless such sumps are to be used within six months for the drilling of another well), and any sump used in productions shall be filled after its abandonment and restored to a uniform grade within ninety days.	During construction and operation	KC PCDD		
			Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
	MM 4.1-3	Sumps and ponds shall be permitted only to the extent authorized by the Central Valley Regional Water Quality Control Board (via waiver, Waste Discharge Requirements, or other form of authorized written documentation) and shall comply with all applicable legal requirements and mitigation measures for sumps serving as storage, percolation or evaporation ponds for produced water.	Delineated on Site Plan; During construction and operation	KC PCDD		
			Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
	MM 4.1-4	Except where located within agricultural land, new oil or gas tanks located within 200 feet of any sensitive receptor shall be partially screened from public view by shrubs, trees or solid screen fencing. Similarly, new pump sites (including multiple well pump sites) within 500 feet of any dwelling must be surrounded by a fence, at least 6 feet in height, constructed of dark-colored chain-link with wood or metal slates, dark green or brown fabric material, or other more visually restrictive fencing material. The height of all new pumping units shall not exceed 80 feet, and shall be painted in accordance with the Kern County Zoning Ordinance.	Delineated on Site Plan; During construction and operation	KC PCDD		
			Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
	MM 4.1-5	Project signage is limited to directional, warning, safety, security and identification signs in connection with oil, gas, or other hydrocarbon drilling and development operations in accordance with Chapter 19.84.135 of the Kern County Zoning Ordinance. For any signage necessary for wayfinding, safety, or security, the Applicant shall use the minimum necessary to adequately communicate the required information.	Delineated on Site Plan; During construction and operation	KC PCDD		
			Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures.			

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
		B. The Kern County Planning and Community Development Department will verify.			
4.1-4	**MM 4.1-6** Permanent nighttime lighting that will be installed for new facility operations will only be lighting required for safety or security. During operations when the lighting is in use, lighting for safety and security will be shielded and oriented downward, bare bulbs will be fully screened from view from sensitive viewing receptors such as residences, and on-demand lighting and/or timers will be used to minimize visual impacts of lighting. In doing so, the Applicant shall comply with the standards in the amended Chapter 19.81 – Outdoor Lighting "Dark Sky Ordinance."	Delineated on Site Plan; During operation	KC PCDD		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
4.1-5	Implement MM 4.1.1 through 4.1.6 Steps to Compliance				
Agricultural Resources					
4.2-1	**MM 4.2-1** For new oil and gas exploration and extraction activities that are: 1) on land designated Prime, Farmland of Statewide Importance or Unique Farmland; and 2) that have been actively farmed 5 years or more out of the last 10 years, agricultural land mitigation is required at a ratio of 1:1. The 1:1 ratio is applied to actual ground disturbance area for oil and gas activities (inclusive of temporary construction and permanent operational impact areas), but excludes non-farmed existing areas such as roads, and tank and maintenance areas, and lands for which agricultural mitigation has previously been provided at a 1:1 ratio. Prior to ground disturbing activity, the Applicant shall submit to the County written evidence of completion of one or more of the following measures to achieve this 1:1 mitigation ratio: a. Funding and/or purchasing agricultural conservation easements or similar instrument acceptable to the County (to be managed and maintained by an appropriate entity). b. Purchasing of credits for conservation of agricultural lands from an established agricultural farmland mitigation bank or an equivalent agricultural farmland preservation program managed by the County. c. Restoring agricultural lands to productive use through the removal of legacy oil and gas production equipment, including well abandonment and removal of surface equipment. d. Participating in any agricultural land mitigation program adopted by Kern County that provides equal or more effective mitigation than the measures listed above. Mitigation lands shall meet the definition of Prime Farmland, Farmland of Statewide Importance, and/or Unique Farmland, and be of similar or higher agricultural quality as the lands, as established by the California Department of Conservation. Completion of the selected measure or, with the Kern County Planning and Community Development Director's approval, a combination of measures, are to occur on qualifying land in Kern County. If qualifying lands cannot be found in Kern County, upon written application to the County, the mitigation lands may be located within the San Joaquin Valley (San Joaquin,	Delineated on Site Plan; Prior to Issuance of Oil and Gas Conformity or Minor Activity Review Permit	KC PCDD		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			

Impact	Mitigation Measure		Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
		Stanislaus, Merced, Fresno, Madera, Kings, Tulare, or Kern County) or outside the San Joaquin Valley with written evidence that the same or equivalent crops can be produced on the mitigation land. Mitigation consisting of removal of legacy equipment within active agricultural fields shall not require recordation of an agricultural conservation easement or conservation easement. Available mitigation funding shall be prioritized for acquisition of large blocks of agricultural land for preservation, and removal of legacy equipment, to minimize and mitigate fragmentation and edge impacts.				
4.2-5	**MM 4.2-2**	To protect crops and structures adjacent to oil and gas activities on active agricultural lands, each Applicant/operator shall comply with the following mitigation measures set forth in other chapters of this Environmental Impact Report: a. Surface water runoff and drainage on the well pads shall be mitigated as described in mitigation measures for Hydrology and Water Quality. b. A Spill Prevention Countermeasure and Contingency Plan or Division of Oil Gas and Geothermal Resources Assembly Bill 1960 spill plan, as applicable, shall be prepared for the site and oil and chemical spills treated in accordance with the Division of Oil Gas and Geothermal Resources Senate Bill 4 Regulations for the site to protect adjacent farmland, as described in mitigation measures for Hazards. c. Speed limits for oil and gas trucks shall be posted on unpaved roads to reduce dust generation; in the absence of signage, speed limits shall be limited to 25 miles per hour (or an alternate, more stringent dust suppression standard as adopted by the San Joaquin Valley Air Pollution Control District), and Applicants shall attest that employees have been trained in the appropriate speed limits. d. Unpaved roads shall be watered or otherwise treated for dust suppression and control as described in Mitigation Measure for Air Quality, unless speeds are restricted to 15 mph. e. Vehicle tracking control shall be installed where unpaved roads intersect with public paved roads, to prevent tracking of mud, dust, and weed seeds off site, unless speeds are restricted to 15 mph. This shall consist of a 50-foot length of a 3 inch-thick layer of gravel one inch or larger in diameter (or an alternate, more stringent dust suppression technique as approved by the San Joaquin Valley Air Pollution Control District). f. Stormwater control shall be required at construction sites during well drilling, reworking, and/or decommissioning as described in mitigation measures for Hydrology. g. Hazardous materials shall be stored within secondary containment as described in mitigation measures for Hazards. h. Overhead electrical or communication lines shall be shown on the Site Plan, and shall be aligned to the greatest extent feasible with existing	Delineated on Site Plan; Prior to Issuance of Oil and Gas Conformity or Minor Activity Review Permit **Steps to Compliance:** A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.	KC PCDD		

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	access roads and the minimum distance between the access road and the well installation or other oil and gas facility, parallel to tree or row crops, described further in mitigation measures for Public Utilities. If the use of existing roads is not feasible, lines shall be routed to minimize surface disturbance and minimize the impacts to surface activity. i. Underground pipelines serving the Project shall be shown on the Site Plan with locations marked and recorded with USAA, and periodically inspected and maintained as described in mitigation measures for Hazards.				
4.2-7	Implement mitigation measure MM 4.2-1 and MM 4.2-2 Steps to Compliance.				
Air Quality					
4.3-1	**MM 4.3-1** Consistent with the requirements of the San Joaquin Valley Air Pollution Control District Regulation II-Permits, the Applicant shall obtain an Authority to Construct permit and a Permit to Operate for any facility or equipment requiring a permit from the San Joaquin Valley Air Pollution Control District, such as stationary sources required to obtain permits pursuant to District Rule 2010. All emissions increases from permitted equipment shall comply with District Rule 2201.	Prior to Issuance of Oil and Gas Conformity or Minor Activity Review Permit	San Joaquin Valley Air Pollution Control District; KC PCDD		
		Steps to Compliance: A. The Project Proponent shall submit an application to obtain Authority to Construct permit and Permit to Operate; B. The San Joaquin Valley Air Pollution Control District will review and approve prior to issuance of the permits.			
	MM 4.3-2 The Applicant shall develop and implement a Fugitive Dust Control Plan in compliance with San Joaquin Valley Air Pollution Control District fugitive dust suppression regulations to further reduce emissions, during construction, of particulate matter that is 10 microns or less and 2.5 microns or less in diameter. The Fugitive Dust Control Plan shall include: a. Name(s), address(es), and phone number(s) of person(s) responsible for the preparation, submission, and implementation of the plan. b. Description and location of operation(s). c. Listing of all fugitive dust emissions sources included in the operation. d. The following dust control measures shall be implemented: 1. All on-site unpaved roads shall be effectively stabilized using water or chemical soil stabilizers that can be determined to be as efficient as or more efficient for fugitive dust control than California Air Resources Board approved soil stabilizers, and that shall not increase any other environmental impacts including loss of vegetation. 2. All material excavated or graded will be sufficiently watered to prevent excessive dust. Watering will occur as needed with complete coverage of disturbed areas. The excavated soil piles will be watered as needed to limit dust emissions to less than 20% opacity or covered with temporary coverings. 3. Construction activities that occur on unpaved surfaces will be	Prior to Issuance of Oil and Gas Conformity or Minor Activity Review Permit	KC PCDD		
		Steps to Compliance: A. The Project Proponent shall prepare a Fugitive Dust Control Plan and submit it to the Kern County Planning and Community Development Department prior to construction. B. The Kern County Planning and Community Development Department will approve the Plan prior to issuing grading or building permits.			

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	discontinued during windy conditions when winds exceed 25 miles per hour and those activities cause visible dust plumes. Construction activities may continue if dust suppression measures are used to minimize visible dust plumes. 4. Track-out debris onto public paved roads shall not extend 50 feet or more from an active operation and track-out shall be removed or isolated such as behind a locked gate at the conclusion of each workday, except on agricultural fields where speeds are limited to 15 mph. 5. All hauling materials should be moist while being loaded into dump trucks. 6. All haul trucks hauling soil, sand, and other loose materials on public roads shall be covered (e.g., with tarps or other enclosures that would reduce fugitive dust emissions). 7. Soil loads should be kept below 6 inches or the freeboard of the truck. 8. Drop heights should be minimized when loaders dump soil into trucks. 9. Gate seals should be tight on dump trucks. 10. Traffic speeds on unpaved roads shall be limited to 25 miles per hour. 11. All grading activities shall be suspended when visible dust emissions exceed 20%. 12. Other fugitive dust control measures as necessary to comply with San Joaquin Valley Air Pollution Control District Rules and Regulations. 13. Disturbed areas should be minimized. 14. Disturbed areas should be re-vegetated as soon as possible after disturbance if area is no longer needed for oil and gas activities.				
	MM 4.3-3 All off-road construction diesel engines not registered under California Air Resources Board's Statewide Portable Equipment Registration Program, which have a rating of 50 horsepower or more, shall meet, at a minimum, the Tier 3 California Emission Standards for Off-road Compression-Ignition Engines as specified in California Code of Regulations, Title 13, section 2423(b)(1) unless that such engine is not available for a particular item of equipment. In the event a Tier 3 engine is not available for any off-road engine larger than 100 horsepower, that engine shall be equipped with retrofit controls that would provide nitrogen oxides and particulate matter emissions that are equivalent to Tier 3 engine. a. All equipment shall be turned off when not in use. Engine idling of all equipment shall be limited to five minutes, except under exemptions specified in California Code of Regulations Title 13 Section	Delineated on Site Plan; During construction and operation	KC PCDD		
		Steps to Compliance: A. The Project Proponent shall take the specified steps to reduce exhaust emissions during construction. B. The Kern County Building Inspection Department will verify in the field during construction.			

<table>
<tr><th>Impact</th><th>Mitigation Measure</th><th>Time Frame for Implementation</th><th>Responsible Monitoring Agency</th><th>Date</th><th>Initials</th></tr>
<tr><td></td><td>2449(d)(2)(A).
b. All equipment engines shall be maintained in good operating condition and in proper tune per manufacturers' specifications.</td><td></td><td></td><td></td><td></td></tr>
<tr><td></td><td>MM 4.3-4 To further reduce emissions of oxides of nitrogen from on-road heavy-duty diesel haul vehicles:
a. 2007 engines or pre-2007 engines shall comply with California Air Resources Board retrofit requirements set forth in California Code of Regulations Title 13 Section 2025.
b. All on-road construction vehicles, except those meeting the 2007/California Air Resources Board-certified Level 3 diesel emissions controls, shall meet all applicable California on-road emission standards and shall be licensed in the State of California. This does not apply to worker personal vehicles.
c. All on-road construction vehicles shall be properly tuned and maintained in accordance with the manufacturers' specifications.</td><td>Delineated on Site Plan; During construction and operation
Steps to Compliance:
A. The Project Proponent shall take the specified steps to reduce exhaust emissions during construction.
B. The Kern County Building Inspection Department will verify in the field during construction.</td><td>KC PCDD</td><td></td><td></td></tr>
<tr><td>4.3-2</td><td colspan="5">Implement MM 4.3-1 through MM 4.3-4 Steps to Compliance.</td></tr>
<tr><td>4.3-3</td><td>MM 4.3-5 Construction:
The Site Plan Application shall include a Site Vicinity Figure showing the location of any sensitive receptor(s) within 3,000 feet of the construction site (potential impact area) for the proposed new well or other ancillary facility or equipment (excluding pipelines).
a. If there are no sensitive receptors within this potential impact area, then no construction mitigation measures shall be required.
b. If there are sensitive receptors within the potential impact area, then additional information must be provided showing the setback from the closest edge of the well pad to the property line of the nearest sensitive receptor. The minimum distances shall be as follows:
<table>
<tr><th>Well Depth (Feet)</th><th>Minimum Setback Distance from Well Site to Adjacent Property Line of an Existing Sensitive Receptor (Feet)</th></tr>
<tr><td colspan="2">Western Subarea</td></tr>
<tr><td>10,000</td><td>367</td></tr>
<tr><td>5,000</td><td>116</td></tr>
<tr><td>2,000</td><td>NA</td></tr>
<tr><td colspan="2">Central Subarea</td></tr>
<tr><td>10,000</td><td>367</td></tr>
</table></td><td>Delineated on Site Plan; During construction and operation
Steps to Compliance:
A. Submit a Site Plan Application including a Site Vicinity Figure
B. Submit additional information as applicable
C. Implement risk minimization measures as applicable</td><td>KC PCDD</td><td></td><td></td></tr>
</table>

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials

5,000	116
2,000	NA
Eastern Subarea	
10,000	296
5,000	NA
2,000	NA

c. If the above setbacks cannot be met, and for existing wells, the Applicant shall provide a site-specific or other risk assessment to the San Joaquin Valley Air Pollution Control District, which may include implementation of one or more of the following risk minimization measures, or other such measures that are demonstrated by the Applicant to the San Joaquin Valley Air Pollution Control District, to achieve a level of risk less than the threshold risk level, and shall provide confirmation from the San Joaquin Valley Air Pollution Control District that the activity that is the subject of the application will not exceed the risk threshold:
   1. Placement of engines in the potential impact area away from the sensitive receptors.
   2. Utilize directional drilling to locate rig away further from the sensitive receptor(s).
   3. Use of late-model engines, low-emission diesel products, alternative cleaner fuels (e.g., natural gas or liquefied petroleum gas), engine retrofit technology, add-on devices such as diesel particulate filters or oxidation catalyst, and/or other options as such become available to reduce emissions from off-road and other equipment.
   4. Utilize electricity line power if available.
   5. Shutdown all equipment when not in use, and otherwise minimize engine idling by limiting idling to 15 minutes.
   6. Use of automatic rigs.
   7. Assist and pay to relocate residents to temporary lodging during well construction, drilling, and completion activities, if such residents voluntarily agree to such relocation.

	MM 4.3-6 Applicants shall include in their Worker Environmental Awareness Program information on how to recognize the symptoms of Valley Fever and to promptly report suspected symptoms of work-related Valley Fever to a supervisor. Workers exposed to fugitive dust shall be provided with the option of using a filter fitted over their nose and mouth, secured by a strap, including training for	Provide with Application Package; During construction and operation **Steps to Compliance:**	KC PCDD		

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	appropriate mask practices as part of the Worker Environmental Awareness Training Program.	A. The Project Proponent shall include the required information into the Worker Environmental Awareness Program and the required options and training. B. The Kern County Planning and Community Development Department will verify in the field during construction and operation.			
4.3-4	**MM 4.3-7** Applicant shall submit an Odor Complaint Management Plan to the County prior to receiving its first Site Plan conformity review approval. The Plan shall include a designated contact for odor complaints, creation of a log for odor complaints, and protocol for handling odor complaints. The Odor log and report files shall be available for public review upon request.	Provide with Application Package; During construction and operation	KC PCDD		
		Steps to Compliance: A. Submit an Odor Complaint Management Plan to the Kern County Planning and Community Development Department; B. The Kern County Planning and Community Development Department will approve the Plan prior to issuing the oil and gas conformity review approval.			
4.3.5	Implement MM 4.3-1 through MM 4.3-4 Steps to Compliance.				
4.3-6	**MM 4.3-8** For criteria emissions, not required to be offset under a District rule as described in MM 4.3-1, and for Project vehicle and other mobile source emissions, the County will enter into an emission reduction agreement with the San Joaquin Valley Air Pollution Control District, pursuant to which the Applicant shall pay fees to fully offset Project emissions of oxides of nitrogen, reactive organic gases, and particulate matter of 10 microns or less in diameter (including as applicable mitigating for reactive organic gases by additive reductions of particulate matter of 10 microns or less in diameter) (collectively, "designated criteria emissions") to avoid any net increase in these pollutants. The air quality mitigation fee shall be paid to the County as part of the Site Plan review and approval process, and shall be used to reduce designated criteria emissions to fully offset Project emissions that are not otherwise required to be fully offset by District permit rules and regulations. As an alternative to paying the fee, an Applicant may reduce emissions for one or more designated criteria emissions through actual reductions in air emissions from other Applicant sources, as submitted to the County and validated by the District. This Project offset requirement alternative shall be enforced by the County and verified by San Joaquin Valley Air Pollution Control District, and must be approved in advance by the San Joaquin Valley Air Pollution Control District. If a voluntary emission reduction agreement is not executed by the County and San Joaquin Valley Air Pollution Control District, then each Applicant must mitigate for the full amount of designated criteria pollutants as verified by the San Joaquin Valley Air Pollution Control District, with evidence of such District-verified offsets presented as part of the Site Plan Conformity Review application documentation.	Provide with Application Package; During construction and operation	San Joaquin Valley Air Pollution Control District; KC PCDD		
		Steps to Compliance: A. The Project Proponent shall take the specified steps to reduce emissions according to the emission reduction agreement between the County and the San Joaquin Valley Air Pollution Control District. B. The San Joaquin Valley Air Pollution Control District will verify compliance with the offset requirements			

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	Examples of feasible air emission reduction activities that may be funded by air quality fees paid by Applicant or proposed and implemented by the Applicant under the emission reduction agreement include, but are not limited to, the following: a. Replacing or retrofitting diesel-powered stationary equipment such as motors on generators, pumps and wells with electric or other lower-emission engines that are not subject to Title V reductions. b. Replacing or retrofitting diesel-powered school, transit, municipal and other community mobile sources such as buses, car fleets, and maintenance equipment, with electric or other lower-emission engines. c. Reducing emissions from public infrastructure sources such as water and wastewater treatment and conveyance facilities, and reducing water-related emissions through water conservation and reclamation. d. Funding lower-emission equipment and processes for local businesses, schools, non-profit and religious institutions, hospitals, city and county facilities.				
Biological Resources					
4.4.1	**MM 4.4-1** A qualified biologist shall conduct a biological reconnaissance survey in potential special-status species habitat to advise the project proponent of potential project impacts, potential surveying needs, and advise on the need for focused special status surveys. Early consultation with United States Fish and Wildlife Service and California Department of Fish and Wildlife would confirm the biologist's advice and/or inform project proponents of additional recommendations. Based on the information gathered from the biological reconnaissance survey and any informal consultation with United States Fish and Wildlife Service and California Department of Fish and Wildlife, focused/protocol surveys shall be conducted by a qualified or permitted biologist (whichever is applicable) well in advance of ground disturbing activities to determine the presence/absence of sensitive species protected by state and federal Endangered Species Acts and potential project impacts to those species. The survey shall be conducted in accordance with the most current standard protocol of United States Fish and Wildlife Service and California Department of Fish and Wildlife. The purpose of focused/protocol surveys is to confirm the presence or absence of any species listed as threatened or endangered under the federal Endangered Species Act, threatened or endangered under the California Endangered Species Act, rare or endangered in the California Native Plant Protection Act, or designated as fully-protected in the California Fish and Game Code (collectively, "Protected Species"), and to confirm the presence or absence of any other species considered "sensitive" under California Environmental Quality Act ("Sensitive Species"), and to identify and implement feasible avoidance and minimization measures for such species. The surveys shall be conducted in accordance with all currently-applicable presence and absence survey and/or species protocols established by	Provide with Application Package; During construction and operation	California Department of Fish and Wildlife; U.S. Fish and Wildlife Service; KC PCDD		
		Steps to Compliance: A. A qualified biologist must conduct the surveys. B. A survey plan must be submitted to USFWS and the CDFW for approval prior to surveys. C. Results from the surveys must be submitted to the USFWS, CDFW and Kern County Planning and Community Development Department. D. The survey report must contain avoidance and minimization measures if sensitive species were documented within the survey area.			

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		the United States Fish and Wildlife Service and the California Department of Fish and Wildlife ("Species Protocols"). In the absence of any approved protocols, the survey shall extend for a minimum of 250 feet from all areas where any ground disturbance activities would occur, provided that permission to access has been obtained. As an alternative to individual pre-disturbance surveys for each application, and after consultation with and concurrence by the California Department of Fish and Wildlife and the United States Fish and Wildlife Service, multiple parcels or areas of oil and gas production lands (including lands which may have multiple surface or mineral ownership) may be consolidated for the purpose of more efficiently managing pre-disturbance surveys and determinations regarding the absence of protected species in areas of proposed new ground disturbance activities. A biological monitor shall be present during ground-disturbing activities in project locations that have special-status species habitat or are adjacent to potential special-status species habitat. Within 30 days before any ground disturbing activities in special-status species habitat, a qualified biologist shall conduct a pre-disturbance survey to record existing conditions of the site, determine if conditions have changed since the reconnaissance or focused/protocol surveys were conducted, and to determine where sensitive species avoidance buffers will be established.				
	MM 4.4-2	No incidental take of any species listed as threatened or endangered under the federal Endangered Species Act, threatened or endangered under the California Endangered Species Act, rare or endangered in the California Native Plant Protection Act, or designated as fully-protected in the California Fish and Game Code (Protected Species) may occur unless the incidental take is authorized by applicable state and federal wildlife agencies in the form of a permit or other written authorization, an approved state or federal conservation plan, or in accordance with an approved regional plan such as the Draft Valley Floor Habitat Conservation Plan and/or Natural Community Conservation Plan.	Provide with Application Package; During construction and operation	U.S. Fish and Wildlife Service; California Department of Fish and Wildlife; KC PCDD		
			Steps to Compliance: A. Obtain permits and/or written authorization from USFWS and CDFW. B. The Kern County Planning and Community Development Department will verify documents and consistence with the Draft Valley Floor Habitat Conservation Plan and/or Natural Community Conservation Plan.			
	MM 4.4-3	Protective buffers shall be used, where effective and feasible in the opinion and guidance of the qualified biologist, to avoid any unauthorized incidental take of Protected Species, and to minimize any incidental take of Sensitive Species, by separating the planned disturbance area from any locations where biological reconnaissance surveys, previously conducted focused/protocol surveys, or pre-disturbance surveys have detected the presence of Protected Species or Sensitive Species. Protective buffers shall be delineated using brightly colored stakes and/or flagging or similar materials and remain until construction activities are complete, at which time of completion the buffers must be removed. If special-status plant or animal species are found adjacent to the project during biological surveys, protective buffers shall be established around	Provide with Application Package; During construction and operation	U.S. Fish and Wildlife Service; California Department of Fish and Wildlife; KC PCDD		
			Steps to Compliance: A. The Applicant shall implement measures related to exclusion barriers or buffers as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			

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active dens and/or burrows of special-status animal species, or populations of special-status plant species to avoid unauthorized take of protected species as listed in the table below. The protective buffer distance shall be increased if required to avoid unauthorized incidental take of any Protected Species as determined by a qualified biologist. Protective buffer distances and other avoidance measures that may be implemented to avoid impacts to Protected Species or Sensitive Species must be consistent with the United States Fish and Wildlife Service and/or the California Department of Fish and Wildlife, and shall be implemented and overseen by a qualified biologist.

Table: Disturbance Buffers for Sensitive Resources

Sensitive Resource	Buffer Zone from Disturbance (feet)
Potential San Joaquin kit fox den	50
Known San Joaquin kit fox den	100
Natal San Joaquin kit fox den	Contact California Department o Fish & Wildlife, United States Fish & Wildlife Service
Atypical San Joaquin kit fox den	50
Rodent burrows	50
Listed bird species active nests	0.5 mile
Burrowing owl burrow (breeding and non-breeding season)	Pursuant to California Departmen of Fish & Wildlife guidelines (see Table 4.4-85)
San Joaquin coachwhip, silvery legless lizard, coast horned lizard	30
American badger: Non-maternity dens Maternity dens	 50 200

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	Special-status plants 50				
	MM 4.4-4 Occupied burrowing owl burrows shall not be disturbed during the species nesting season (February 1 through August 31). The following distances shall be maintained between all disturbance areas and burrowing owl nesting sites (Table 4.4-85).	Provide with Application Package; During construction and operation	U.S. Fish and Wildlife Service; California Department of Fish and Wildlife; KC PCDD		

Table 4.4-85: Setback Distances for Burrowing Owl Nesting Sites by Level of Proposed Project Impacts

Location		
Nesting sites	Nesting sites	Nesting sites
Time of Year		
April 1–Aug 15	Aug 16–Oct 15	Oct 16–Mar 31
Project Impact Level		
Low		
656 feet (200 meters)	656 feet (200 meters)	164 feet (50 meters)
Medium		
1,640 feet (500 meters)	656 feet (200 meters)	328 feet (100 meters)
High		
1,640 feet (500 meters)	1,640 feet (500 meters)	1,640 feet (500 meters)

Burrowing owls present in proposed disturbance areas or within 500 feet or as specified under an approved Habitat Conservation Plan (as identified during pre-disturbance surveys) outside of the breeding season (between September 1 and January 31) may be moved away from the disturbance area using passive relocation techniques approved by the California Department of Fish and Wildlife. Passive relocation techniques in the California Department of Fish and Wildlife *Staff Report on Burrowing Owl Mitigation Guidelines* (California Department of Fish and Game 2012) include installing one-way doors in burrow entrances for 48 hours, to ensure the owl(s) have left the burrow, daily monitoring during the passive relocation period, and collapsing existing burrows to prevent reoccupation. A minimum of one or more weeks will be required to relocate the owl(s) and allow for acclimatization to alternate off-site burrows. Prior to burrow exclusion or eviction, a burrowing owl management

Steps to Compliance:

A. The Applicant shall implement measures related to nesting windows and buffer set-backs from nest sites as specified in the mitigation measures.
B. The Kern County Planning and Community Development Department will verify.
C. If passive relocation techniques are implement ted the Applicant must follow the *Staff Report on Burrowing Owl Mitigation Guidelines*.
D. If passive relocation or an alternative is implemented a burrowing owl management plan must be prepared and approved by the California Department of Fish and Wildlife.
E. The Kern County Planning and Community Development Department will verify.

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	plan shall be prepared and approved by the California Department of Fish and Wildlife. Destruction of burrows shall occur only pursuant to a management plan for the species approved by the California Department of Fish and Wildlife; burrow excavation shall be conducted by hand whenever possible. As an alternative to passive relocation, occupied burrows identified off-site within 500 feet of construction activities may be buffered with hay bales, fencing (e.g. sheltering in place), or as directed by the qualified biologist and the California Department of Fish and Wildlife, to avoid disturbance of burrows.				
	MM 4.4-5 The pre-disturbance surveys shall determine whether active bat maternity roosts are located in or within 250 feet of any disturbance area. All active bat maternity roosts shall be avoided during breeding periods, including postponing disturbance activities if required, and to the maximum extent feasible at other times. If an active bat maternity roost location cannot feasibly be avoided by disturbance, the United States Fish and Wildlife Service and California Department of Fish and Wildlife must be contacted to identify appropriate impact minimization measures prior to initiating any disturbance that would affect the roost.	Provide with Application Package; During construction and operation	U.S. Fish and Wildlife Service; California Department of Fish and Wildlife; KC PCDD		
		Steps to Compliance: A. Conduct pre-disturbance surveys as specified in the mitigation measure. B. If avoidance of bat maternity roosts is not feasibly contact the USFWS and CDFW for appropriate minimization measures and approval prior to ground disturbing activities. C. The Kern County Planning and Community Development Department will verify.			
	MM 4.4-6 Any potential San Joaquin kit fox dens (as defined in United States Fish and Wildlife Service 2011) detected during reconnaissance or focused/protocol surveys shall be reevaluated for species activity no more than 30 days prior to the commencement of ground disturbance. Potential kit fox dens shall be marked and a 50-foot avoidance buffer shall be delineated using brightly colored stakes and flagging or similar materials to prevent inadvertent damage to the potential den. If a potential den cannot feasibly be avoided, the den may be hand excavated in accordance with the United States Fish and Wildlife Service *Standardized Recommendations for Protection of the Endangered San Joaquin Kit Fox Prior to or During Ground Disturbance* (United States Fish and Wildlife Service 2011). If species activity is detected, the location shall be identified as a "known" kit fox den in accordance with the U.S. Fish and Wildlife Service species guidelines (United States Fish and Wildlife Service 2011). A minimum 100-foot buffer from any disturbance area shall be maintained for known dens and a minimum 500-foot buffer from any disturbance area shall be maintained for natal dens. No excavation of a known or natal den shall occur without prior authorization from the United States Fish and Wildlife Service and the California Department of Fish and Wildlife. For activities occurring on land covered under an approved federal and/or State	Provide with Application Package; During construction and operation	U.S. Fish and Wildlife Service; California Department of Fish and Wildlife; KC PCDD		
		Steps to Compliance: A. The Applicant shall conduct pre-disturbance surveys as specified in the mitigation measure. B. If den buffers or avoidance is not feasible; the Applicant must consult and obtain approval from the USFWS and CDFW. C. The Applicant shall implement the USFWS *Standardized Recommendation for Protection of the Endangered San Joaquin Kit Fox Prior to or During Ground Disturbance* if a den cannot feasibly be avoided. D. Implement Habitat Conservation Plan measures if activity occurs on covered lands. E. The Kern County Planning and Community Development Department will verify.			

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		incidental take authorization, the requirements set forth in those documents shall be implemented. Other standard measures to protect San Joaquin kit fox, including capping pipes, covering trenches, adding exit ramps to excavated areas, shall be implemented in accordance with MM 4.4-15.				
	MM 4.4-7	Occupied American badger dens detected during pre-disturbance surveys shall be flagged and ground-disturbing activities avoided within 50 feet of the den. Maternity dens shall be avoided and a minimum 200-foot buffer from disturbance shall be maintained during pup-rearing season (February 15 through July 1). Maternity dens must be avoided to the maximum extent feasible. If a maternity den cannot feasibly be avoided, the California Department of Fish and Wildlife must be contacted to identify appropriate impact minimization measures prior to initiating any disturbance that would affect the den, including potential passive relocation by excavation before or after the rearing season.	Provide with Application Package; Provide with Application Package; During construction and operation	U.S. Fish and Wildlife Service; California Department of Fish and Wildlife; KC PCDD		
			Steps to Compliance: A. The Applicant shall conduct pre-disturbance surveys as specified in the mitigation measure. B. Implement avoidance measures as specified in the mitigation measure. C. Consult with CDFW if maternity dens cannot be feasibly avoided. D. The Kern County Planning and Community Development Department will verify.			
	MM 4.4-8	Pre-disturbance surveys for all sites located above 2,000 feet in elevation, or within 200 feet down gradient from the 2,000-foot elevation contour line, shall specifically survey for any golden eagle nests located within 2 miles of the site. If golden eagle nests are detected by the surveys, the qualified biologist shall conduct a nest-specific viewshed analysis. No disturbance may occur within 0.25 mile, or within 0.5 mile of the viewshed of an active golden eagle nest unless otherwise authorized by State and federal wildlife agencies. The United States Fish and Wildlife Service and California Department of Fish and Wildlife must be notified prior to the commencement of any disturbance activities within 1 mile of an active golden eagle nest to avoid golden eagle take.	Provide with Application Package; During construction and operation	U.S. Fish and Wildlife Service; California Department of Fish and Wildlife; KC PCDD		
			Steps to Compliance: A. The Applicant shall conduct pre-disturbance surveys as specified in the mitigation measure. B. Implement avoidance measures as specified in the mitigation measure. C. Consult with USFWS and CDFW if nest buffers cannot be feasibly avoided. D. The Applicant must provide documentation in writing that consultation with USFWS and CDFW was conduct for project activities within a nest buffer. E. The Kern County Planning and Community Development Department will verify.			
	MM 4.4-9	All sites located above 2,000 feet in elevation, or within 200 feet down gradient from the 2,000-foot elevation contour line, shall implement the following measures to avoid and minimize potential adverse impacts to the California condor: a. The site shall, at all times, be maintained to avoid any trash, debris, food sources and microtrash, such as bottle caps, that could be ingested by or attract California condor. Trash shall be disposed in animal-proof	Provide with Application Package; During construction and operation	U.S. Fish and Wildlife Service; California Department of Fish and Wildlife; KC PCDD		
			Steps to Compliance:			

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	containers as required in BIO 4.4-19. b. The Worker Environmental Awareness Program described in BIO MM 4.4-18 shall include information about microtrash and potential effects to California condor, and shall prohibit the disposal of trash (and microtrash) on the site of oil and gas activities. c. If a condor is observed in a proposed construction site, all disturbance activities must immediately cease within 500 feet of the condor until the animal has moved from the site. If condor occurrence persists, the United States Fish and Wildlife Service and the California Department of Fish and Wildlife must be contacted to identify appropriate avoidance measures prior to initiating or resuming any disturbance activity. d. All condor observations shall be reported within 24 hours to the United States Fish and Wildlife Service and the California Department of Fish and Wildlife. e. All tanks, liquid storage facilities, and any open area containing water or other liquid materials, including drilling sumps, must be covered or otherwise shielded in a manner that prevents condor intrusion and potential entrapment. f. No overhead transmission lines may be used at the site without the prior approval of the United States Fish and Wildlife Service and the California Department of Fish and Wildlife.	A. A qualified biologist shall monitor all construction activities for impacts to the California condor. B. The Applicant shall train workers on the issue of trash, debris, food sources and microtrash – what it is, and its potential effects to the California condors. C. The Applicant shall implement the Workers Environmental Awareness Program prior to the start of construction. D. The Applicant shall report all California condor sightings during construction to the USFWS and CDFW, and Kern County Planning and Community Development Department. E. The Applicant shall provide written documentation the Kern County Planning and Community Development Department showing implementation of additional measures specified in the mitigation measures.			
	MM 4.4-10 Pre-disturbance surveys for active bird nests must be conducted no more than 10 days prior to the commencement of disturbance. Surveys shall follow United States Fish and Wildlife and California Department of Fish and Wildlife guidance and/or protocols, as applicable. If no active nests or nesting birds are identified, then Project construction activities may proceed and no further mitigation measures for nesting birds are required. If active nest(s) are identified, the active nest(s) should be continuously surveyed for the first 24 hours after detection, to establish a behavioral baseline prior to any construction-related activities. Once construction commences, all nests shall be continuously monitored to detect any behavioral changes as a result of the Project (i.e., nest avoidance or abandonment). If behavioral changes are observed, the work causing that change should cease and the California Department of Fish and Wildlife and the United States Fish and Wildlife should be consulted for additional avoidance and minimization measures. If continuous monitoring of identified nests by a qualified wildlife biologist is not feasible, a minimum no-disturbance buffer of 250 feet will be established around active nests and a 500-foot no-disturbance buffer around the nests of raptors until the breeding season has ended, or until a qualified biologist has determined that the birds have fledged and are no longer reliant upon the nest or parental care for survival, and any adult birds are no longer occupying the nest. Variance from these no-disturbance buffers may be implemented a qualified biologist	Provide with Application Package; During construction and operation	U.S. Fish and Wildlife Service; California Department of Fish and Wildlife; KC PCDD		
		Steps to Compliance: A. The Applicant shall conduct pre-disturbance surveys as specified in the mitigation measure. B. Implement avoidance measures as specified in the mitigation measure C. A qualified biologist shall monitor all construction activities for impacts to active bird nests if nest buffers cannot be implemented. D. The Applicant shall provide written documentation and approval of variance from the no-disturbance areas to Kern County Planning and Community Development Department. E. The Kern County Planning and Community Development Department will verify prior to issuing NTP or permits.			

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	concludes that work within the buffer area would not cause nest avoidance or abandonment (e.g., when the disturbance area would be concealed from a nest site by topography). The California Department of Fish and Wildlife and the United States Fish and Wildlife must be notified in advance of implementing of a variance in the no-disturbance buffer.				
	MM 4.4-11 The following measures will be implemented to avoid take of blunt-nosed leopard lizard and to ensure protection of these animals during Project activities: a. Project activities will avoid all potential burrows that may be occupied by blunt-nosed leopard lizards. Suitable burrows within and adjacent to potential habitat for the species should be avoided by a minimum distance of 50-feet in all areas where ground-disturbing Project activities will occur. b. No more than one year prior to ground disturbing activities, focused surveys following current California Department of Fish and Wildlife and United States Fish and Wildlife protocols for detection of this species or other methods approved by both agencies shall be conducted in all potential blunt-nosed leopard lizard habitat within the work site and a 250-foot buffer area. If no individual blunt-nosed leopard lizards are observed during focused surveys, and surveys are current (e.g., completed in the same calendar year), then Project activities may proceed. c. If blunt-nosed leopard lizards are detected during focused surveys, a blunt-nosed leopard lizard avoidance plan shall be prepared for the Project that will result in avoidance of incidental take of this species unless take is separately authorized under a Natural Communities Conservation Plan and appropriate federal authorization is obtained. At a minimum, the blunt-nosed leopard lizard avoidance plan shall be provided to the California Department of Fish and Wildlife and the County, and shall contain the following elements: 1. A Worker Environmental Awareness Program shall be implemented for all construction personnel before construction begins (see MM 4.4-18). 2. During periods that are optimal for blunt-nosed leopard lizard activity (early spring through late fall), a qualified biologist will be present during all ground disturbing activities. The qualified biologist will check the Project site(s) and access route(s) daily during the blunt-nosed leopard lizard active season to determine presence or absence of lizards in or near the work areas. Monitoring by a qualified biologist is not required during periods of inactivity (the winter season). 3. All open trenches or excavations shall be covered at the end of each workday or protected with the use of exclusion fencing to	Provide with Application Package; During construction and operation	U.S. Fish and Wildlife Service; California Department of Fish and Wildlife; KC PCDD		
		Steps to Compliance: A. The Applicant shall conduct focused surveys as specified in the mitigation measure. B. Implement avoidance measures as specified in the mitigation measure C. A qualified biologist shall monitor all construction activities except during periods of inactivity (the winter season). D. The Applicant shall provide avoidance plan if blunt-nosed leopard lizards were detected during focused surveys. E. Implement the Worker Environmental Awareness Program. F. Implement additional measures as described in the mitigation measure. G. The Kern County Planning and Community Development Department will verify prior to issuing NTP or permits.			

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	prevent wildlife entrapment. If an excavation is too large to cover, escape ramps shall be installed at an incline ratio of no greater than 2:1. All trenches and pipes shall be inspected for the presence of wildlife each day prior to the commencement of work. If blunt-nosed leopard lizards are observed at the work site during construction, construction shall cease within a 250-foot radius and the United States Fish and Wildlife Service and the California Department of Fish and Wildlife shall be consulted to determine what additional measures would be necessary to prevent take of this species. 4. Offsite locations where blunt-nosed leopard lizards have been observed or are likely to occur shall be clearly marked to prevent workers from driving off the road and to prevent inadvertent destruction of burrows. Barriers, such as exclusionary fencing may be installed. All construction equipment and construction personnel vehicles will be checked prior to moving to ensure no blunt-nosed leopard lizard are under equipment/vehicles. 5. A speed limit of 10 miles per hour shall be posted and observed within 0.25 miles of any reported blunt-nosed leopard lizard observation. 6. Construction activities shall avoid burrows that may be used by blunt-nosed leopard lizards. Any location of proposed construction activity with potential to collapse or block burrows (i.e., stockpile storage, parking areas, staging areas, trenches) will be identified prior to construction in the blunt-nosed leopard lizard avoidance plan and approved by the qualified biologist. The qualified biologist may allow certain activities in burrow areas if the combination of soil hardness and activity impact is not expected to collapse burrows and no blunt-nosed leopard lizards have been found during pre-Project surveys in the impact area. 7. All individual blunt-nosed leopard lizards observed above-ground will be avoided. Any individual blunt-nosed leopard lizard that may enter the Project site(s) would be allowed to leave unobstructed, and on its own accord. If a blunt-nosed leopard lizard is detected during biological monitoring or observed at any other point, the California Department of Fish and Wildlife and the United States Fish and Wildlife Service shall be notified to determine what additional measures would be necessary to prevent take of the species.				
	MM 4.4-12 The Applicant shall comply with the following: a. Plant surveys for Protected Species and Sensitive Species must be completed by a qualified biologist during the appropriate blooming periods for species identification and detection. Plant surveys shall be	Provide with Application Package; During construction and operation	U.S. Fish and Wildlife Service; California Department of Fish		

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	conducted in accordance with all applicable protocols established by the United States Fish and Wildlife Service and the California Department of Fish and Wildlife for particular plant species ("Plant Survey Protocol"), and shall extend 50 feet from areas where any new disturbance would occur unless a greater survey distance is specified in the Plant Survey Protocol. All detected plant populations of Protected Species and Sensitive Species shall be identified in the field during the surveys with temporary flags or other appropriate materials to avoid and minimize impacts to the plant populations from any disturbance activities.		and Wildlife; KC PCDD		
		Steps to Compliance: A. The Applicant shall conduct botanical surveys as specified in the mitigation measure. B. Implement avoidance measures as specified in the mitigation measure. C. Implement additional measures as identified in the mitigation measure. D. The Kern County Planning and Community Development Department will verify prior to issuing NTP or permits.			
	b. No incidental take or relocation of any plant listed under the federal Endangered Species Act, the California Endangered Species Act, or the California Native Plant Protection Act may occur unless the incidental take is authorized by the United States Fish and Wildlife Service and/or the California Department of Fish and Wildlife in a permit or other authorization, or in an approved Habitat Conservation Plan or Natural Communities Conservation Plan. If focused plan surveys detect the presence of any listed plant, the plant populations shall be buffered from disturbance activities by implementing applicable impact avoidance protocols established by the United States Fish and Wildlife Service and/or the California Department of Fish and Wildlife unless incidental take authority is obtained. Projects covered under incidental take authority shall conduct activities in accordance with the take authorization. The California Department of Fish and Wildlife may be contacted to determine the appropriate buffer required to prevent incidental take of a listed plant if avoidance protocols have not been established for the species. The qualified biologist shall confirm that all applicable listed plant buffers have been implemented prior to the commencement of any disturbance activity.	Prior to ground-disturbing activities	U.S. Fish and Wildlife Service; California Department of Fish and Wildlife; KC PCDD		
		Steps to Compliance: A. The Applicant shall implement measures related to rare plants as specified in the mitigation measure. B. The Kern County Planning and Community Development Department will verify.			
	c. If any non-listed sensitive plant species are identified that may be impacted by new ground disturbing activities, populations must be avoided by a 50-foot buffer.				
	MM 4.4-14 A Worker Environmental Awareness Program shall be developed and implemented for all personnel that could access the site prior to commencing any disturbance activities. The program shall consist of an on-site or center presentation that will describe the locations and types of sensitive plant, wildlife, and sensitive natural communities (collectively, "Biological Resources") on and near the site, an overview of the laws and regulations governing the protection of Biological Resources, the reasons for protecting the Biological Resources, the specific protection and avoidance measures that are applicable to the site, and the identity of designated points of contact should questions or issues arise, including the qualified biologist. The program shall provide training to recognize, avoid and report to applicable qualified biologists	Provide with Application Package; During construction and operation	KC PCDD		
		Steps to Compliance: A. The Applicant shall implement measures related to Worker Environmental Awareness Program as specified in the mitigation measure. B. The Kern County Planning and Community Development Department will verify.			

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	any Biological Resources on the site. a. The Worker Environmental Awareness Program shall emphasize the need to avoid contact with onsite wildlife, and avoid entry into areas where Biological Resources have been identified based on pre-disturbance field surveys and to implement the buffer avoidance or other protection measures established by the United States Fish and Wildlife Service shall be identified California Department of Fish and Wildlife or required by the Biological Resource mitigation measures. The training shall emphasize the importance of not feeding or domesticating wildlife and the need to avoid any trash, microtrash, or potential food disposal onsite except in animal-proof containers emptied daily to avoid attracting, or causing adverse impacts to special status wildlife. b. All onsite personnel must sign a statement verifying that they have completed the Worker Environmental Awareness Program, and that they understand and agree to implement the biological requirements for the worksite. If signed employee statements are not available, documentation may be provided by Worker Environmental Awareness Program training records, which shall be kept by the Applicant for a minimum of 5 years. Each Applicant shall maintain a list of all persons who have completed the training program, and shall provide the list to the County or to state and federal wildlife agency representatives upon request.				
	MM 4.4-15 The following additional measures shall be implemented to avoid and minimize potential significant adverse impacts to Protected and Sensitive Species: a. All vehicles shall observe a 20-mile-per-hour speed limit in all areas of disturbance and on unpaved roads unless otherwise posted. Off-road traffic outside of designated access routes is prohibited. Speed limit signs shall be posted in visible locations at the point of site entry and at regular intervals on all unpaved access roads. b. All disturbance activities, except emergency situations or drilling that may require continuous operations, shall only occur during daylight hours. Night time disturbance activity for drilling purposes shall use directed lighting, shielding methods, or reduced lumen intensity to avoid unnecessary visual disturbance to wildlife and to comply with applicable lighting mitigation measures. c. All food-related trash items and all forms of microtrash, such as wrappers, cans, bottles, bottle tops, and food scraps shall be disposed of in closed, animal proof containers and removed daily from the site. d. Excavations, spoils piles, access roadways, and parking and staging areas shall subject to dust control as set forth in the dust control mitigation measures. e. The use of herbicides for vegetation control shall be restricted to those	Provide with Application Package; During construction and operation	KC PCDD		
		Steps to Compliance: A. The Applicant shall implement measures related to protected and sensitive species as specified in the mitigation measure. B. The Kern County Planning and Community Development Department will verify.			

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	approved by the United States Fish and Wildlife Service and the California Department of Fish and Wildlife. No rodenticides shall be used on any site unless approved by the United States Fish and Wildlife Service, and the California Department of Fish and Wildlife, and shall observe label and other restrictions mandated by the United States Environmental Protection Agency, California Department of Food and Agriculture, and state and federal laws and regulations. For split estates, no herbicides for vegetation control may occur in Tier 2 areas without surface owner approval. f. No plants or wildlife shall be collected, taken, or removed from the site or any adjacent locations except as necessary for Project-related vegetation removal or wildlife relocation by a qualified biologist and subject to all applicable permits and authorizations. g. All open trenches or excavations shall be covered at the end of each workday to prevent wildlife entrapment. If an excavation is too large to cover, escape ramps shall be installed at an incline ratio of no greater than 2:1. All trenches and pipes shall be inspected for the presence of wildlife each day prior to the commencement of work. h. To enable San Joaquin kit foxes and other wildlife to pass through the Project site, any perimeter fencing shall include a 4- to 8-inch opening between the fence mesh and the ground or the fence shall be raised 4 inches above the ground except blunt-nosed leopard lizard exclusion fencing. The bottom of the fence fabric shall be knuckled (wrapped back to form a smooth edge) to protect wildlife. i. All vertical tubes used in Project construction and chain link fencing poles, shall be temporarily or permanently capped to avoid the entrapment and death of special-status wildlife and birds. All pipes 1.5 inches or greater in diameter stored overnight on a project location must have end caps or other physical barriers that prevent wildlife from entering the pipe. j. All dead or injured special status wildlife shall be left in place and reported to the United States Fish and Wildlife Service and the California Department of Fish and Wildlife within 48 hours of discovery for rescue or salvage. Discovery of state or federal listed species that are injured or dead shall also be managed consistent with regulatory requirements, including being reported immediately via telephone and within 24 hours in writing, and with a copy to Kern County Planning and Community Development. k. All drilling installations and operations will comply at all times with the applicable federal, State, county, and local law ordinances and regulations. l. All activity shall use previously disturbed areas to the maximum extent feasible to minimize the amount of new disturbance.				

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	m. All concrete and asphalt debris should be removed from the site for recycling or proper disposal. n. No vehicles or construction equipment shall be parked within a wetland or waterbody/dry wash. o. Tracked vehicles and other construction equipment must be washed or maintained to be weed-free prior to entering and working within areas of new disturbance. p. All washing of trucks, paint, equipment, or similar activities should occur in areas where runoff is fully contained for collection and offsite disposal. Wash water may not be discharged from the site and shall be located at least 100 feet from any water body, or sensitive Biological Resources. q. Locate all extra work areas (such as staging areas and additional spoil storage areas) at least 50 feet away from wetland boundaries or waterbody, except where the adjacent upland consists of cultivated or rotated cropland or other disturbed land. r. All areas that must be avoided as result of the pre-disturbance surveys, and areas where new disturbance will occur, shall be clearly delineated by fencing or staking and flagging and/or rope or cord. s. No firearms shall be allowed on any site. t. No pets shall be allowed on any site. u. No smoking may occur except in designated areas. v. If ground disturbance is intended to be temporary and does not occur on cultivated and crop lands, perform topsoil segregation during construction activities to preserve the seed bank for restoration efforts. Store the segregated topsoil separate from the subsoil and restore segregated topsoil to its original location.				
	MM 4.4-16 Ground disturbance shall be mitigated at a 1.0 to 1.0 ratio (one-acre of new disturbance shall require one-acre of mitigation) except in Tier 1 areas that contain existing disturbance of 70% or greater which shall be mitigated at a 1.0 to 0.5 ratio (one-acre of new disturbance shall require one-half acre of mitigation), for the land included in the Site Plan. This compensatory mitigation requirement does not apply to construction on ground for which compensatory mitigation has already been provided, or on ground that has been previously disturbed (e.g., cleared of vegetation for other oil and gas extraction uses, existing unpaved roads, and existing unvegetated well pads). Ground disturbance activities that are authorized by permits or other written authorizations approved by the United States Fish and Wildlife Service and the California Department of Fish and Wildlife, which include avoidance and compensatory mitigation acreage requirements, may be used to satisfy this County compensatory mitigation ratio. Compensatory mitigation shall be required for the actual acreage of ground disturbance documented during the site plan review and completion process. New disturbance mitigation may be	Provide with Application Package; During construction and operation	U.S. Fish and Wildlife Service; California Department of Fish and Wildlife; KC PCDD		
		Steps to Compliance: A. The Applicant shall implement measures related to mitigation ratios as specified in the mitigation measure. B. The Applicant shall implement the additional measures specified in the mitigation measure. C. The Kern County Planning and Community Development Department will verify.			

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	satisfied by one or a combination of the following measures: a. The recordation of a conservation easement or similar permanent, long-term conservation management agreement in a form acceptable to the County for land within the Project Area on land that has mitigation value. The easement lands may be owned by an Applicant or a third party under contract with an Applicant. Larger land areas may be placed under a conservation easement or similar agreement, and an Applicant may "draw down" the conserved land as needed to satisfy the acreage mitigation requirements for multiple site plan review conformity permits or other authorizations from the County for oil and gas activities. b. Acquisition of land preservation credits from a mitigation bank located within the Project Area which is owned by the County, on other lands approved by the County, or on lands approved for mitigation or conservation purposes by the United States Fish and Wildlife Service or the California Department of Fish and Wildlife. c. Removal of legacy oil and gas equipment, inclusive of compliance with applicable legal requirements (e.g., well plugging and abandonment requirements under state or federal regulations), restoration of the surface grade to be consistent with surrounding lands, complete a reseeding effort using native species, and notification of the site owner (if not the Applicant) of the completion of the removal and grading restoration work. d. Enhancement or restoration of existing habitat on lands already subject to a conservation easement or similar agreement, or which become subject to a conservation easement or similar agreement subsequent to the certification of this Environmental Impact Report, provided that such activities are covered in a permit or authorization, conservation plan, Habitat Conservation Plan, or Natural Community Conservation Plan, approved by the United States Fish and Wildlife Service or the California Department of Fish and Wildlife. e. Payment of a biological resources mitigation fee for the acquisition and management of mitigation lands, legacy equipment removal, and/or land enhancement already subject to conservation easements or a similar agreements under the terms of any biological resource mitigation program that is adopted by Kern County and approved by the United States Fish and Wildlife Service or the California Department of Fish and Wildlife. The County shall coordinate with the United States Fish and Wildlife Service or the California Department of Fish and Wildlife to identify priority conservation areas and potential conservation partners and funding sources to increase the efficiency and effectiveness of mitigation fee expenditures.				
4.4.2	Implement MM 4.4-1 through 4.4.18, described above, and dust control, spill and hazardous				

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	material avoidance and containment, and surface and subsurface water quality and hydrology mitigation measures.				
	MM 4.4-17 Pre-disturbance surveys shall be conducted by a qualified biologist during the appropriate periods for detecting Sensitive Natural Communities that could occur within the Project Area. The surveys shall be completed consistent with applicable protocols approved by the United States Fish and Wildlife Service and/or the California Department of Fish and Game, including the Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities (California Department of Fish and Wildlife 2009). The qualified person shall map and identify all sensitive natural communities, including riparian communities that occur in or within 100 feet of any new disturbance area. The site plan for the proposed activity shall identify waters, wetlands, resources subject to section 1600 of the CFGC, and other riparian habitats that occur in and within 100 feet of the disturbance area.	Provide with Application Package; During construction and operation	U.S. Fish and Wildlife Service; California Department of Fish and Wildlife; KC PCDD		
		Steps to Compliance: A. The Applicant shall conduct pre-disturbance surveys as specified in the mitigation measure. B. The Applicant shall submit a site plan identifying all waters, wetlands and other riparian habitats as specified in the mitigation measure. C. The Kern County Planning and Community Development Department will verify.			
	MM 4.4-18 No land disturbance activity in any Sensitive Natural Community that requires a state or federal permit, including state or federally regulated wetlands and waters, shall occur unless the activity is specifically authorized by the issuance of permits or approvals as required by state and federal law. This provision is not intended to restrict survey activities or restrict permit approvals for such disturbance activities. However, no new wells, tanks, sumps or ponds shall be constructed within 50 feet of federal or state waters or wetlands.	Provide with Application Package; During construction and operation	U.S. Fish and Wildlife Service; California Department of Fish and Wildlife; KC PCDD		
		Steps to Compliance: A. The Applicant shall implement the measures specified in the mitigation measure. B. The Kern County Planning and Community Development Department will verify.			
4.4-3	Implementation of the Biological Resources mitigation measures would ensure that oil and gas activities would not disturb state or federally regulated wetlands and waters unless the activity is specifically authorized by the issuance of permits or approvals as required by state and federal laws and that activities in the vicinity of wetlands and water bodies would not adversely disturb them. Other mitigation measures identified in this Environmental Impact Report would further reduce potential state or federally jurisdictional wetland and waters, including dust control, spill and hazardous material avoidance and containment, surface and subsurface water quality and hydrology, mitigation measures.				
4.4-4	Implementation of the Biological Resources mitigation measures would reduce wildlife movement impacts. Other mitigation measures identified in this Environmental Impact Report to further reduce wildlife movement impacts, include dust control, nighttime lighting, noise controls, spill and hazardous material avoidance and containment,, and surface and subsurface water quality and hydrology (including but not limited to Kern River and Poso Creek channels), measures.				
4.4-5	**MM 4.4-19** In the event that new disturbance would occur at a site within an oak woodland area as defined in Section 1.10.10 of the Kern County General Plan Land Use, Open Space and Conservation Element (10% or greater oak tree cover), the Applicant shall comply with the minimum 30% canopy retention standard in Section 1.10.10 KK (a). Impacts to oak trees in other locations, and in locations that meet the criteria for an oak woodland area, shall be avoided to the	Provide with Application Package; During construction and operation	KC PCDD		
		Steps to Compliance:			

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	maximum extent practicable, including modification of the disturbance area, if feasible, to avoid existing oak trees within a site.	A. The Applicant shall implement the measures specified in the mitigation measure. B. The Kern County Planning and Community Development Department will verify.			
4.4-6	**MM 4.4-20** Applicants shall fund through the Site Conformity Review administrative fee, preparation by Kern County of, an annual report describing the Project's ground disturbance acreage, and the acreage of compensatory mitigation lands, in each sub-area. For Covered Activities within areas included in proposed HCPs, the requirements of MM 4.4-1 – 4.4-19 may be superseded by specific requirements imposed by USFWS as part of approval of a federal incidental take permit (e.g., under Section 10 or Section 7 of the Endangered Species Act), or by CDFW as part of approval of a state incidental take permit (e.g., under the Fish and Game Code), provided that USFWS (in the case of a federal incidental take permit) or CDFW (in the case of a state incidental take permit) concludes in writing that such requirements provide equivalent or greater protection than MM 4.4-1 – 4.4-19 (or any subset thereof).	Provide with Application Package; During construction and operation **Steps to Compliance:** A. The Applicant shall implement the measures specified in the mitigation measure. B. The Kern County Planning and Community Development Department will verify.	KC PCDD		
4.4-7	Implement MM 4.4-1 through MM 4.4-20 Steps to Compliance.				
Cultural Resources					
4.5-1	**MM 4.5-1** Prior to initiating ground disturbance activities for an activity for which a conformity review is required, the Applicant shall: a. Provide an archival records search completed by a qualified archaeologist. This shall include an examination of the California Historical Resources Information Files at the Southern San Joaquin Valley Information Center, California State University, Bakersfield, and a search of the Native American Heritage Commission Sacred Lands Files, Sacramento. The Applicant may rely on a previously performed records search for subsequent ground disturbing activities. b. If an application location has been previously surveyed and no cultural resources have been recorded on it, no further cultural resources studies shall be required. c. Implement either: 1. If a site plan includes land that has experienced 100% previous ground-surface disturbance, or is within a section with 300 or more existing oil wells or other agricultural, industrial or urban uses, and the records searches indicate that no cultural or Native American resources are known on it, no further cultural resources studies shall be required. All other application locations shall be subject to intensive (100%) pedestrian ground-surface survey (Phase I survey/Class III inventory) by qualified archaeologists. The Applicant may rely on a previously performed ground surface	Provide with Application Package; During construction and operation **Steps to Compliance:** A. The Applicant shall implement the measures specified in the	KC PCDD; State Historic Preservation Office		

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	survey for subsequent ground disturbing activities; or 2. If an application location has not been previously surveyed based on the records search information, an intensive (100%) pedestrian ground-surface survey (Phase I survey/Class III inventory) by qualified archaeologists shall be required. d. All prehistoric/Native American archaeological sites, whether identified during the records searches or during the intensive survey, shall be demarcated by a qualified archaeologist, fenced by the Applicant, and preserved in place. e. Historical (Euro-American) archaeological sites that are potentially eligible for listing in the National Register of Historic Places shall be evaluated by a qualified archaeologist and must meet the requirements of the National Historic Preservation Act of 1966 in order to qualify. Qualifying sites, structures and equipment that are identified during the records search or field survey shall be fenced and preserved in open-space, removed and curated, or treated using appropriate data recovery procedures. f. Historical (Euro-American) archaeological site types relating to oil and gas activities that have been determined Not Significant/Unique shall require no archaeological study or treatment. g. All oil and gas industry employees conducting work in the area identified on the Conformity Site Plan shall complete Worker Environmental Awareness Program training including training dedicated to cultural resources protection.	mitigation measure. B. The Kern County Planning and Community Development Department will verify.			
4.5-2	Implement MM 4.5-1 Steps to Compliance.				
4.5-3	**MM 4.5-2** As part of any Worker Environmental Awareness Program training, all construction personnel shall be trained regarding the recognition of possible buried paleontological resources and protection of paleontological resources during construction, prior to the initiation of construction or ground-disturbing activities. Training shall inform construction personnel of the procedures to be followed upon the discovery of paleontological materials. All personnel shall be instructed that unauthorized collection or disturbance of fossils is unlawful.	Provide with Application Package; During construction and operation	KC PCDD		
		Steps to Compliance: A. The Applicant shall implement the Worker Environmental Awareness Program measures specified in the mitigation measure. B. The Kern County Planning and Community Development Department will verify.			
	MM 4.5-3 All permits for new wells that use Enhanced Oil Recovery or Well Stimulation methods shall pay a mitigation fee of $50 per well shall be paid to the Buena Vista Museum to fund the continued education and curation of paleontological resources and provide educational support regarding the paleontological history of the region.	Provide with Application Package; During construction and operation	KC PCDD; Buena Vista Museum		
		Steps to Compliance:			

Impact	Mitigation Measure		Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
			A. The Applicant shall pay a mitigation fee as specified in the mitigation measure. B. The Kern County Planning and Community Development Department will verify.			
4.5-4	**MM 4.5-4**	In the event archaeological materials are encountered during the course of ground disturbance or construction, the Project operator/contractor shall cease any ground disturbing activities within 50 feet of the find. The qualified archaeologist shall evaluate the significance of the resources and recommend appropriate treatment measures. Per California Environmental Quality Act Guidelines Section 15126.4(b)(3), Project redesign and preservation in place shall be the preferred means to avoid impacts to significant historical resources. Consistent with California Environmental Quality Act Guidelines Section 15126.4(b)(3)(C), if it is demonstrated that resources cannot be avoided, the qualified archaeologist shall develop additional treatment measures in consultation with the County, which may include data recovery or other appropriate measures. The Planning and Community Development Department shall consult with appropriate Native American representatives in determining appropriate treatment for unearthed cultural resources if the resources are prehistoric or Native American in nature. If after consultation it is deemed appropriate, archaeological materials recovered during any investigation shall be curated at an accredited curation facility. The qualified archaeologist shall prepare a report documenting evaluation and/or additional treatment of the resource. A copy of the report shall be provided to the Kern County Planning and Community Development Department and to the Southern San Joaquin Valley Information Center. In the event archaeological materials are encountered, in Tier 2 the surface owner shall be notified immediately.	During construction	KC PCDD		
			Steps to Compliance: A. The Applicant shall submit an unanticipated discovery plan as part of the oil and gas conformity review. B. A qualified archaeologist shall evaluate any unanticipated site for significance and recommend appropriate treatment measures. C. The Applicant qualified archaeologist shall outline the recommendations for data recovery and curation in a report for submittal to the Kern County Planning and Community Development Department. D. The Kern County Planning and Community Development Department shall deem if or when ground disturbing activities within 50 feet of the find can or cannot resume.			
	MM 4.5-5	If human remains are uncovered during Project construction, the Applicant shall immediately halt all work, contact the Kern County Coroner to evaluate the remains, and follow the procedures and protocols set forth in Section 15064.4 (e)(1) of the California Environmental Quality Act Guidelines. The Kern County Planning and Community Development Department shall be notified concurrently. If the County Coroner determines that the remains are Native American, the Project proponent shall contact the Native American Heritage Commission, in accordance with Health and Safety Code Section 7050.5, subdivision (c), and Public Resources Code 5097.98 (as amended by Assembly Bill 2641). The Native American Heritage Commission shall designate a Most Likely Descendant for the remains per Public Resources Code 5097.98. Per Public Resources Code 5097.98, the applicant, in coordination with the landowner, shall ensure that the immediate vicinity, according to generally accepted cultural or archaeological standards or practices, where the Native American human remains are located, is not damaged or disturbed by further development activity until the discussion and conference with the Most Likely Descendant has occurred, if applicable, taking into account the possibility of	During construction	KC PCDD		
			Steps to Compliance: A. The Applicant shall implement the measures specified in the mitigation measure. B. The Kern County Planning and Community Development Department will verify.			

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	multiple human remains. If the remains are determined to be neither of forensic value to the Coroner, nor of Native American origin, provisions of the California Health and Safety Code (7100 et. seq.) directing identification of the next-of-kin will apply. In the event human remains are uncovered, in Tier 2 the surface owner shall be notified immediately.				
4.5-5	Implement MM 4.5-1 through MM 4.5-5 Steps to Compliance.				
Geology and Soils					
4.6-1	**MM 4.6-1** Prior to beginning a ground disturbance activity, the Applicant shall comply with the following regulations (as applicable) and confirm compliance in its Site Plan Conformity Review application documentation: a. Alquist-Priolo Earthquake Fault Zoning Act. b. California Building Code. c. Division of Oil Gas and Geothermal Resources regulations, as identified in the California Code of Regulations, Title 14, Division 2, Chapter 4, including regulations implementing Senate Bill 4 as applicable. If hydraulic fracturing is conducted for any well associated with the Site Plan Conformity Review, the Applicant shall comply with requirements to monitor the California Integrated Seismic Network for indication of an earthquake of magnitude 2.7 or greater for the period of 10 days following the end of hydraulic fracturing. The earthquake search radius shall be consistent with Division of Oil Gas and Geothermal Resources Senate Bill 4 regulations. The data will be submitted to Division of Oil Gas and Geothermal Resources for an evaluation of the risks and actions consistent with the Division of Oil Gas and Geothermal Resources Senate Bill 4 regulations. In approving a well stimulation treatment permit that would authorize, within an urban area (i.e., an area with a population over 50,000, as defined by the U.S. Census Bureau), the emplacement of well stimulation fluids into an oil or gas formation that has not been previously been subject to well stimulation activity, and/or into an oil or gas formation for which Division of Oil Gas and Geothermal Resources does not yet possess adequate information about formation fracture geometries, Division of Oil Gas and Geothermal Resources shall impose a permit condition requiring that the applicant conduct ground monitoring to characterize as-built fracture geometries prior to, during, and post-hydraulic fracturing. Monitoring shall also be conducted during fracturing treatments by use of applicable microseismic fracture mapping, tilt measurements, tracers, or proppant tagging. Copies of ground monitoring records shall be provided to the County and Division of Oil Gas and Geothermal Resources for review and approval within 30 days of well stimulation treatment. d. Additionally, the Applicant shall: 1. Avoid placement of structures intended for human occupancy on	Prior to ground disturbance activity **Steps to Compliance:** A. The Applicant shall implement the measures specified in the mitigation measure. B. The Kern County Building Department will verify during the oil and gas conformity review process.	KC PCDD		

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	or within 50 feet of any active faults designated and mapped pursuant to the Alquist-Priolo Earthquake Fault Zoning Act where the fault breaks the surface. 2. Have a professional geologist prepare a fault rupture hazard evaluation according to guidelines in California Geological Survey Special Publication 42, 2007 for new developments with structures that are intended for human occupancy. 3. All Class II injection wells shall be authorized, and shall comply with all applicable legal requirements, Underground Injection Control Program Approval permit conditions, and be operated according to the California Code of Regulations Title 14 requirements, as described in the mitigation measures for Hydrology and Water Quality. 4. Ensure that active fault trace placement restrictions are in place for all permanent tanks and storage reservoirs used to store, treat, or transport hazardous materials or materials that are considered pollutants to surface water and groundwater, located in an Earthquake Fault Zone. Ensure that all newly installed pipelines subject to 49 Code of Federal Regulations (CFR) Parts 192 and 195, are engineered and constructed in compliance with the requirements of the pipeline safety regulations, as set forth by the Pipeline Hazardous Materials Safety Administration (PHMSA). All other newly installed pipelines that transport gas or hazardous liquids are to be constructed, tested operated and maintained in accordance with good oilfield practice and applicable standards set forth and approved by the State Oil and Gas Supervisor. Ensure that all new pipelines designated for or water used for fire suppression are engineered and constructed in compliance with the requirements of California Building Code Chapter 9, Fire Protection Systems, and the California Fire Code to address potential fault rupture displacements.				
	MM 4.6-2 All structures designed for human occupancy shall be designed to withstand substantial ground shaking in accordance with applicable California Building Code seismic design standards and Kern County Building Code.	During construction and operation	Kern County Public Works Department		
		Steps to Compliance: A. The Applicant shall implement the measures specified in the mitigation measure. B. The Kern County Building Department will verify during the oil and gas conformity review process.			
4.6-2 4.6-3	Implement MM 4.6-1 and MM 4.6-2 Steps to Compliance.				
4.6-4	**MM 4.6-3** Operators shall avoid siting wells or accessory equipment and facilities on slopes greater than 30% unless the Applicant determines that mineral recovery is infeasible from a different location, and site-specific Professional Engineering certification is submitted concluding that the new equipment will not cause landslides.	Provide with Application Package; During construction and operation	Kern County Public Works Department		
		Steps to Compliance:			

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		A. The Applicant shall implement the measures specified in the mitigation measure. B. The Kern County Building Department will verify during the oil and gas conformity review process.			
4.6-5	Implement stormwater mitigation measures, as described in Section 4.9, Hydrology and Water Quality.				
	Implement MM 4.6-3and MM 4.6-4, as described:				
4.6-6	**MM 4.6-4** The Applicant shall confirm compliance with, and shall implement, a Division of Oil Gas and Geothermal Resources approved re-pressuring plan as required by Division 3, Chapter 1, Article 5.5 of the Public Resources Code, commencing with Section 3315. In developed areas where subsidence is confirmed or suspected, subsidence monitoring shall be required using Synthetic Aperture Radar studies and/or other methods as approved by the Division of Oil Gas and Geothermal Resources to quantify and evaluate the potential effect on the area.	Provide with Application Package; During construction and operation	KC PCDD; Division of Oil Gas and Geothermal Resources		
		Steps to Compliance: A. The Applicant shall implement the measures specified in the mitigation measure. B. The Kern County Planning and Community Development Department will verify during the oil and gas conformity review process.			
4.6-7	**MM 4.6-5** The Applicant shall avoid building infrastructure on expansive soils unless the Applicant determines that mineral recovery is infeasible from a different location, and site-specific Professional Engineering certification is submitted concluding that the new equipment will not cause substantial risks to life or property.	Prior to issuing the NTP or permits	KC PCDD		
		Steps to Compliance: A. The Applicant shall implement the measures specified in the mitigation measure. B. The Kern County Planning and Community Development Department will verify during the oil and gas conformity review process.			
4.6-8	Implement MM 4.6-1 Steps to Compliance.				
4.6-9	Implement MM 4.6-1 through MM 4.6-5 Steps to Compliance.				
Green House Gas Emissions					
4.7-1	**MM 4.7-1** An Applicant covered by the Cap-and-Trade Program with permitted stationary sources shall comply with the Cap-and-Trade regulation (especially by surrendering greenhouse gas allowances or offset credits to satisfy their compliance obligation under the Program), and implement Best Performance Standards applicable to greenhouse gas reduction for Components at Light Crude Oil and Natural Gas Production, Natural Gas Processing Facilities, Petroleum Refineries, Gas Liquids Processing Facilities, and Chemical Plants (San Joaquin Valley Air Pollution Control District 2010), Thermally Enhanced Oil Recovery Wells (San Joaquin Valley Air Pollution Control District 2010a), Steam Generators (San Joaquin Valley Air Pollution Control District 2010b), and Front-line Organic Liquid Storage Tanks (San Joaquin Valley Air Pollution Control District 2011).	Provide with Application Package; During construction and operation	KC PCDD; San Joaquin Valley Air Pollution Control District		
		Steps to Compliance: C. The Applicant shall implement the measures specified in the mitigation measure. D. The Kern County Planning and Community Development Department will verify during the oil and gas conformity review process.			

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	MM 4.7-2 Each Applicant covered by the Cap-and-trade Program shall comply with applicable Cap and Trade regulations, and other applicable greenhouse gas emission control and reduction regulations as these may be adopted or amended over time, to reduce, avoid, mitigate and/or sequester greenhouse gas emissions from Project-related air emissions.	Provide with Application Package; During construction and operation	KC PCDD; San Joaquin Valley Air Pollution Control District		
		Steps to Compliance: E. The Applicant shall implement the measures specified in the mitigation measure. F. The Kern County Planning and Community Development Department will verify during the oil and gas conformity review process.			
	MM 4.7-3 Each Applicant shall implement methods to recover for reuse or destroy methane existing in associated gas and casinghead gas, as follows: a. Recover all associated gas produced from the reservoir via new wells, regardless of the well type, except for gas produced from wildcat and delineation wells or as a result of start-up, shutdown and maintenance activities (whether planned or unplanned), system failures, and emergencies in accordance with San Joaquin Valley Air Pollution Control District regulations (Rule 4401 and 4409), as this may be amended over time. b. Compliance with the expected California Air Resources Board methane regulation.	Provide with Application Package; During construction and operation	KC PCDD; San Joaquin Valley Air Pollution Control District		
		Steps to Compliance: G. The Applicant shall implement the measures specified in the mitigation measure. H. The Kern County Planning and Community Development Department will verify during the oil and gas conformity review process.			
	MM 4.7-4 Each Applicant shall offset all greenhouse gas emissions not covered by the Cap-and-Trade program or other mandatory greenhouse gas emission reduction measures through Applicant reductions of greenhouse gas emissions as verified by Kern County, through acquisition of offset credits from the California Air Pollution Control Officers Association Exchange Register or other third party greenhouse gas reductions, with consultation as to the validity of methodology for calculating reductions verified by the San Joaquin Valley Air Pollution Control District and accepted by Kern County, or through inclusion in an Emission Reduction Agreement, to offset Project-related greenhouse gas emissions that are not included in the Cap and Trade program to assure that no net increase in greenhouse gas emissions from the Project.	Provide with Application Package; During construction and operation	KC PCDD; San Joaquin Valley Air Pollution Control District		
		Steps to Compliance: I. The Applicant shall implement the measures specified in the mitigation measure. J. The Kern County Planning and Community Development Department will verify during the oil and gas conformity review process.			
4.7-2	Implement MM 4.7-3 Steps to Compliance.				
4.7-3	Implement MM 4.7-4 Steps to Compliance.				
Hazards and Hazardous Materials					
4.8-1	**MM 4.8-1** The Applicant shall provide a comprehensive Worker Environmental Awareness Program to the County with its first Site Plan Conformity Review permit application in each calendar year. The program shall include all training requirements identified in Applicant Best Management Practices and mitigation measures, and include training for all field personnel (including Applicant employees, agents and contractors). The Worker Environmental Awareness	Provide with Application Package; During construction and operation	KC PCDD		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the			

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		Program shall include protocols and training for responding to and handling of hazardous materials and hazardous waste management, and emergency preparedness, release reporting, and response requirements. In Tier 2, the Worker Environmental Awareness Program shall be provided to the surface owner at the time of the application pathway process so the surface owner may educate employees as well.	mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
	MM 4.8-2	The Applicant shall arrange for transportation, storage and disposal of all hazardous materials in compliance with the Hazardous Materials Transportation Act. Drivers transporting hazardous materials or wastes should follow the measures recommended by the Federal Motor Carrier Safety Administration for avoiding roll-over accidents. To avoid roll-over accidents involving cargo tank trucks: a. Avoid sudden movements that may lead to roll-overs. b. Control your load in turns and on straight roadways. c. Identify high risk areas on roads. d. Remain alert and attentive behind the wheel. e. Control speed and maintain proper "speed cushions."	Provide with Application Package; During construction and operation construction **Steps to Compliance:** A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.	KC PCDD; Environmental Protection Agency; California Department of Transportation		
	MM 4.8-3	The Applicant shall implement the following practices: a. Construction activities shall be conducted to allow for easy clean-up of spills. Construction crews shall have sufficient tools, supplies, and absorbent and barrier materials to contain and recover spilled materials. b. Fuels and lubricants shall be stored only at designated staging areas. Fuel and lubricant tanks shall have appropriate secondary spill containment (e.g., curbs). Compliance with laws and regulations is required, including compliance with hazardous materials and hazardous waste storage laws, as applicable. c. Storage of fuel and lubricants in the staging area shall be at least 100 feet away from the edge of water bodies. Refueling and lubrication of equipment shall be restricted to upland areas at least 100 feet away from stream channels and wetlands. d. Any fuel truck shall carry an oil spill response kit and spill response equipment at all times. e. Applicants shall be required to perform all routine equipment maintenance at the well pad or other suitable locations (i.e., maintenance yards), and promptly collect and lawfully dispose of wastes in compliance with existing regulatory requirements. f. Berms and/or dikes (secondary containment) shall be constructed around the permanent above-ground bulk tanks and the foundations shall be installed with a passive leak detection system, so that potential spill materials shall be contained and collected in specified areas isolated from any water bodies. Tanks shall not be placed in areas subject to periodic flooding or washout. Compliance with laws and	Provide with Application Package; During construction and operation **Steps to Compliance:** A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.	KC PCDD		

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	regulations is required, including compliance with hazardous materials and hazardous waste storage laws as applicable, including for secondary containment, such as Division of Oil Gas and Geothermal Resources regulation (Title 14, C,C.R. § 1773.1), which requires secondary containment in "an engineered impoundment such as a catch basin, which can include natural topographic features, that is designed to capture fluid released from a production facility." g. A sufficient supply of sorbent and barrier materials shall be maintained on construction sites consistent with the type and level of construction activities. Sorbent and barrier materials shall also be utilized to contain runoff from contaminated areas where appropriate. 1. Shovels and drums shall be stored at each well pad or be readily available. If small quantities of soil become contaminated, hand tools such as shovels or other appropriate tools, shall be used to collect the soil and the material shall be stored in storage drums. Large quantities of contaminated soil may be bio-remediated on-site or at a designated remediation facility, subject to government approval, or collected utilizing heavy equipment, and stored in drums or other suitable containers prior to disposal. Should contamination occur adjacent to staging areas as a result of runoff, shovels and/or heavy equipment shall be utilized to collect the contaminated material. Contaminated soil shall be disposed of in accordance with state and federal regulations. 2. Above-ground tanks, valves and other equipment shall be visually inspected monthly and when the tank is refilled. Inspection records shall be maintained. Applicants shall periodically check tanks for leaks or spills. 3. Drain valves on all tanks shall be locked to prevent accidental or unauthorized discharges from the tank. 4. Equipment maintenance shall be conducted in staging areas or other suitable locations (i.e., maintenance shops or yards) to the extent practical. 5. The Applicant shall maintain equipment in operating condition to reduce the likelihood of fuel or oil line breaks and leakage. Any vehicles with chronic or continuous leaks shall be removed from the site and repaired before being returned to operation. h. Applicants are encouraged, but not required, to use an alternate to silica sand as a proppant, after Division of Oil Gas and Geothermal Resources has determined that such an alternative does not introduce new hazards.				

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	MM 4.8-4 The Applicant shall implement the following measures to prevent, repair, and remediate accidental leaks and spills from oil and gas operations. a. The Applicant shall identify gas, oil and produced water pipelines to be used for each new or reworked well site in its Site Plan, and shall show the location of any sensitive receptor located within 300 feet of any such pipeline. For any pipeline located within 300 feet of a sensitive receptor, the Applicant shall present evidence that each such pipeline has been integrity tested using pressure testing or other accepted test methods by a qualified professional within a two-year period prior to submittal of the Site Plan, and shall provide a copy of the test result to the County. For all waste gas lines less than or equal to 4 inches in diameter, a Pipeline Management Plan shall be developed and implemented in accordance with Division of Oil Gas and Geothermal Resources regulations Title 14, Division 2, Chapter 4, Section 1774.2. The Pipeline Management Plan shall include: 1. A listing of information on each pipeline including, but not limited to: i. Pipeline type. ii. Grade. iii. Installation date of pipeline. iv. Design and operational pressure. v. Any leak, repair, inspection and testing history. 2. A description of the testing method and schedule for all pipelines. b. The Applicant shall notify the Kern County Environmental Health Division, Certified Union Program Agency (CUPA), surface landowner, and sensitive receptors located within 300 feet, of any hazardous materials/waste release immediately upon discovery, and to other applicable agencies as required by other laws. The Applicant shall immediately contain the leak (e.g., by isolating or shutting down the leaking equipment), clean up contaminated media (e.g., soils), and repair the leak prior to recommencing operations. The Applicant shall report the status and progress of the leak repair and remediation work to the County and the CUPA on monthly intervals or predetermined intervals until the repair has been completed. Contaminated media shall be analyzed according to 22 C.C.R. §§ 66261.21-66261.24 for determination of appropriate hazardous waste disposal. Hazardous Waste Determination procedures are provided in 22 C.C.R. § 66262.11. c. As part of the Site Plan, the Applicant shall identify the location and right of way for all pipelines to be used for the transport of oil, gas, and	Provide with Application Package; During construction and operation	KC PCDD; Division of Oil Gas and Geothermal Resources		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			

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	produced water, including pipelines that intersect the main transport line, based on existing data and using commercially available technology, and, based on the results of this analysis, shall identify any sensitive receptors within 300 feet of the pipeline for purposes of complying with Mitigation Measure 4.8-4. Mechanical integrity testing of all such pipeline lengths within 300 feet of a sensitive receptor shall be required pursuant to Mitigation Measure 4.8.4-a. d. If a release, identified pursuant to subsection (b), cannot be repaired or remediated within 48 hours, and has potential impact to sensitive receptors, the Applicant shall incur costs to sample and analyze the potentially affected area, which may include soil, groundwater, outdoor or indoor air of sensitive receptors within 300 feet of the leak. Applicant shall pay all temporary relocation costs (e.g., housing, food, and transportation) for any exposed sensitive receptor until such time as the leak has been repaired and post-indoor air testing has been completed, as confirmed by identified agency having oversight of the remediation.				
	MM 4.8-5 If, during grading or excavation work, the Applicant observes evidence of contamination or if soil contamination is suspected, work near the excavation site shall be terminated, the work area cordoned off and appropriate health and safety procedures implemented for the location by the contractor's Health and Safety Officer. Samples shall be collected by a trained and qualified individual. Analytical data from suspected contaminated material shall be reviewed by the contractor's Health and Safety Officer. If the sample testing determines that contamination is not present, work may proceed at the site; however, if contamination is detected above regulatory limits, the Kern County Public Health Services Department shall be notified. All actions related to encountering unanticipated hazardous materials at the site shall be documented and submitted to the Kern County Public Health Services Department.	Provide with Application Package; During construction and operation	Kern County Public Health Services; Kern County Environmental Health;		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Public Health Services and Environmental Health will verify.			
	MM 4.8-6 The Applicant shall implement measures to prevent the release or accidental spillage of solid waste, garbage, construction debris, sanitary waste, industrial waste, naturally occurring radioactive materials, oil and other petroleum products, and other wastes into water bodies or water sources, including all applicable practices included in the most up-to-date versions of the following documents: Exemption of Oil and Gas Exploration and Production Wastes From Federal Hazardous Waste Regulations (EPA 2002). Equivalent industry standards such as Environmental Protection for Onshore Oil and Gas Productions and Leases (American Petroleum Institute 2009) and related standards may also be utilized, provided that a professional engineer, certified industrial hygienist or certified safety professional certifies to the County that such alternative standards are as or more protective of human health and the environment, as compared to the standards in the referenced Environmental Protection Agency manual. The determination of when and the extent to which	Provide with Application Package; During construction and operation	KC PCDD		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			

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	a measure is "practical" is to be made by the Applicant; however, all of the below activities must comply with all applicable legal requirements, including federal and state laws and regulations, County ordinances, and the mitigation measures included in this Final EIR. a. Classify the various oil and gas exploration and production wastes for proper disposal as described in United States Environmental Protection Agency 2002, and in accordance with applicable California laws and regulations. b. Size reserve pits properly to avoid overflows. c. Use closed loop mud systems when practical, particularly with oil-based muds. d. Review safety data sheets of materials used, and select less toxic alternatives when possible. e. Minimize waste generation, such as by designing systems with the smallest volumes possible (e.g., drilling mud systems). f. Reduce the amount of excess fluids entering reserve and production pits. g. Keep non-exempt wastes out of reserve or production pits. h. Design the drilling pad to contain stormwater and rigwash. i. Recycle and reuse oil-based muds and high density brines, when practical, and when such recycling and reuse complies with hazardous waste laws and recycling laws. j. Perform routine equipment inspections and maintenance to prevent leaks or emissions. k. Reclaim oily debris and tank bottoms when practical, and when such reclamation complies with hazardous waste laws and recycling laws. l. Minimize the volume of materials stored at facilities. m. Construct adequate berms around materials and waste storage areas to contain spills. n. Perform routine inspections of materials and waste storage areas to locate damaged or leaking containers. o. Train personnel to use sensible waste management practices.				
	MM 4.8-7 Conduct exploration and development activities as described in *Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development The Gold Book* (Bureau of Land Management 2007) or equivalent industry standard such as Environmental Protection for Onshore Oil and Gas Production Operations and Leases (American Petroleum Institute 2009) and related standards. The following specific measures should be undertaken at a minimum: a. Sufficient impervious secondary containment, such as containment dikes, containment walls, and drip pans, should be constructed and maintained around all qualifying petroleum facilities, including tank batteries and separation and treating areas consistent with the Environmental Protection Agency's Spill Prevention, Control, and	Provide with Application Package; During construction and operation	KC PCDD; Environmental Protection Agency; Kern County Fire Department		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			

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	Countermeasures regulation (40 Code of Federal Regulations 112). The containment structure must have sufficient volume to contain, at a minimum, the content of the largest storage tank containing liquid hydrocarbons within the facility/battery and sufficient freeboard to contain precipitation, unless more stringent protective requirements are deemed necessary by the authorized officer. Drip pans should be routinely checked and cleaned of petroleum or chemical discharges and designed to prevent access by wildlife and livestock. b. Chemical containers should not be stored on bare ground, and should be maintained in good condition and placed within secondary containment in case of a spill or high velocity puncture. c. Containment dikes are not to be constructed with topsoil or coarse, insufficiently impervious spoil material. Containment is strongly suggested for produced water tanks. Chemicals should be placed within secondary containment and stored so that the containers are not in contact with soil or standing water and product and hazard labels are not exposed to weathering. d. Maintain a clean well location. Remove trash, junk, and other materials not in current use. e. In approving a well stimulation treatment permit, the applicant shall include in the spill contingency plan required by Section 1722.9 of Title 14 of the California Code of Regulations a protocol for measuring and reporting earthquake and earth consequences that occur during the well stimulation process, for however many well stimulation treatments are proposed to occur simultaneously at any given time. The Spill Contingency Plan shall include requirements for adequate personnel and equipment that may be necessary to conduct post-earthquake inspection and repair plans to evaluate any damage that has occurred. The Spill Contingency Plan shall include spill prevention, control and countermeasure plans to address the hazardous substances associated with well stimulation activities. The post-earthquake inspection procedures shall ensure the integrity of the mechanical systems and well integrity of wells used for stimulation or wastewater injection and idle wells that might have become conduits for escaping fluids or gases. The plan shall include procedures describing the necessary steps to be taken after service is disrupted in order to make the facilities secure, operational and safe as soon as possible.				
	MM 4.8-8 Applicants shall use the appropriate American Petroleum Institute Standards, or other recognized sources imposing the same or equivalent standards, for their facility, such as the following: a. Use cements and well materials in well completions as described in Specifications for Cements and Materials for Well Cementing (American Petroleum Institute 2011).	Provide with Application Package; During construction and operation	KC PCDD; Division of Oil Gas and Geothermal Resources		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the			

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	b. Prior to start-up of all new facilities, verify and prove the construction, installation, integration, testing, and preparation of systems have been completed as designed following the practices described in Facilities Systems Completion Planning and Execution (American Petroleum Institute 2013a). c. When the use of centralizers and stop-collars are required during well completion activities, follow the installation and testing requirements described in Recommended Practice for Centralizer Placement and Stop-collar Testing (American Petroleum Institute 2010a). d. Limit the environmental footprint of oil and gas exploration and production and reduce the incidence of releases of hazardous substances following the practices described in Environmental Protection for Onshore Oil and Gas Production Operations and Leases (American Petroleum Institute 2009). e. Minimize improper disposal by following the practices described in American Petroleum Institute Order No. G00004, Guidelines for Commercial Exploration and Production Waste Management Facilities (American Petroleum Institute 2001) or other recognized methods. These guidelines discuss the relevant regulations and permitting requirements; siting, construction, and technical consideration for various waste disposal options; as well as mitigation options. f. Minimize the environmental footprint of exploration and production activities following the practices described in Land Drilling Practices for Protection of the Environment (American Petroleum Institute 2010b) or other recognized sources. g. When pressure testing is required by State or federal law, prior to pressurizing or re-pressurizing petroleum product pipelines, ensure the integrity of pipelines following the practices described in Recommended Practice for the Pressure Testing of Steel Pipelines for the Transportation of Gas, Petroleum Gas, Hazardous Liquids, Highly Volatile Liquids, or Carbon Dioxide (American Petroleum Institute 2013b) or other recognized sources. h. To minimize releases of hazardous substances during oilfield construction, pit and sump operations shall be conducted in accordance with State Water Resources Control Board General Orders or appropriate Regional Water Quality Control Board waste discharge requirements or general orders.	mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
	MM 4.8-9 For all operations subject to the Oil and Gas Conformity Review, the Applicant shall comply with the pipeline management plan, including inspection and maintenance requirements, as administered by the Division of Oil Gas and Geothermal Resources pursuant to 14 California Code of Regulations 1774.	Provide with Application Package; During construction and operation	KC PCDD; Division of Oil Gas and Geothermal Resources		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the			

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		mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
4.8-2	**MM 4.8-10** The Applicant shall incorporate annual maintenance checks for leaks and corrosion that cause releases into current operations, maintenance, and inspection schedules as provided by the Division of Oil Gas and Geothermal Resources pursuant to 14 California Code of Regulations Sections 1774.1 and 1774.2, the Applicant shall visually inspect all above-ground pipelines for leaks and corrosion at least once per year, comply with the pipeline testing requirements included therein, shall maintain records of such inspections and testing; and shall make inspection and testing records available to the County for review upon request.	Provide with Application Package; During construction and operation	KC PCDD; Division of Oil Gas and Geothermal Resources		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
	MM 4.8-11 As part of the Hazardous Materials Business Plan and the spill prevention, control, And countermeasures Plan, the Applicant shall require annual worker training requirements to: increase awareness of the most common types of failures and methods to avoid mistakes, shall maintain records of employee training, and shall make such records available to the County for review upon request.	Provide with Application Package; During construction and operation	KC PCDD; Kern County Fire Department		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
	MM 4.8-12 An Applicant who plans to perform cyclic steam injection activities above reservoir fracture pressures shall conduct such activities in accordance with the requirements set forth in the Division of Oil Gas and Geothermal Resources site-specific Project Approval Letter for the injection project. The following requirements from a Project Approval Letter for an injection project are examples of the types of conditions that would be triggered if a surface expression were to occur, though such conditions may be modified by the Division of Oil Gas and Geothermal Resources to reflect site-specific conditions and changing regulatory requirements. a. Cease cyclic steaming operations in accordance with the site-specific Project Approval Letter. Streaming can resume following the Division of Oil Gas and Geothermal Resources specifications outlined in the Project Approval Letter. b. All new or reactivated surface expressions that discharge oil in a reportable quantity shall be reported as an oil spill to the California Emergency Management Agency at (800) 852-7550. c. Any measures to address surface expressions from the well and associated Project shall be reviewed by the Division of Oil Gas and Geothermal Resources prior to initiating. d. Immediately control any water, steam, or oil flowing from a surface expression and contained. All discharged material shall be removed and disposed of in a manner approved by all state and local agencies.	During construction and operation	KC PCDD; Division of Oil Gas and Geothermal Resources; Kern County Environmental Health		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department and the Division of Oil Gas and Geothermal Resources will verify.			

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	e. Cordon off and clearly mark all surface expressions to prevent inadvertent access. f. Conduct air sampling of any emissions associated to a recent surface expression in accordance to the local air board requirements to ensure a health hazard condition does not exist. g. Report immediately to the Division of Oil Gas and Geothermal Resources all surface expressions within 300 feet of the Project site. If the surface expression continues to flow after five days, all wells within a 300-foot radius shall cease steaming until the surface expression ceases to flow. If the surface expression continues to flow, the damage will be evaluated at the Supervisor's discretion, as assigned by Section 3106 of the Public Resources Code and existing laws and regulations.				
	MM 4.8-13 The Applicant shall comply with the Division of Oil Gas and Geothermal Resources requirements for assuring safe drilling and drill casing practices, well design, construction and well management requirements, blowout requirements, and all other provisions of 14 California Code of Regulations 1744 and other applicable Division of Oil Gas and Geothermal Resources regulations. The Applicant shall also reduce the incidence of well control loss by following the practices described in Recommended Practice for Well Control Operations (American Petroleum Institute 2012).	During construction and operation	KC PCDD; Division of Oil Gas and Geothermal Resources		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
	MM 4.8-14 The Applicant shall report contamination caused by oil and gas activities, including previously unknown injection wells, of a reportable quantity of hazardous substances, as specified in the Code of Federal Regulations Title 40 and/or the California Code of Regulations Titles 22 and 23, which is discovered during Project construction activities and operations. Notification must be made to Kern County Environmental Health Division and the appropriate implementing regulatory agency that has responsibility or oversight of the specific contamination conditions. The Applicant shall remediate such contamination outside Tier 1 areas as required by the Kern County Environmental Health Division and the appropriate implementing regulatory agency.	During construction and operation	KC PCDD; Kern County Environmental Health; Environmental Protection Agency		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
4.8-3	**MM 4.8-15** The Applicant who intends to use acutely hazardous chemicals, including chemicals at or above the specified threshold quantities or a process which involves a Category 1 flammable gas or a flammable liquid with a flashpoint below 100 degrees Fahrenheit (37.8 degrees Celsius) on site in one location, in a quantity of 10,000 pounds (4535.9 kilograms) or more according to 8 California Code of Regulations Section 5189, Appendix A, within 0.25 mile from a school must: a. Evaluate whether other alternative chemicals that are less hazardous could be used. b. Ensure that the smallest quantity of necessary acutely hazardous	Provide with Application Package; During construction and operation	KC PCDD; Kern County Fire Department		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department and Kern County Fire Department will verify.			

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	materials are stored on site. c. Notify the occupants of the buildings when and where acutely hazardous materials would be used. d. Notify Kern County Fire Department about the details of the use of acutely hazardous materials (e.g., when, where, how much). e. Ensure that all employees who would contact the acutely hazardous materials are trained on the handling, transport, storage, and disposal of the materials. f. Ensure that all employees who would contact the acutely hazardous materials are trained and are provided the proper personal protective equipment. g. Ensure that all employees who would contact the acutely hazardous materials are trained and have exercised on the Spill Prevention, Control, and Countermeasures Plan that addresses these chemicals. **MM 4.8-16** The applicant shall not use any well stimulation fluid unless the applicant presents one of the following: 1. Safety Data Sheet that accurately describes the physical and chemical properties of the well stimulation fluid; or 2. Safety Data Sheets that accurately describe the physical and chemical properties of all chemical compounds in the well stimulation fluid; or 3. Toxicological report prepared by a qualified laboratory and/or the fluid vendor confirming the environmental profile of the well stimulation fluid is known; or 4. Results of an aquatic bioassay by a qualified laboratory confirming the environmental profile of the well stimulation fluid is known. For purposes of this mitigation measure, the term "environmental profile" means the physical and chemical properties of a compound that determine its risk to human health and the environment. This mitigation measure shall be superseded by any list of approved well stimulation treatment fluids, chemicals or additives published by the State of California or by any applicable State of California regulation pertaining to chemical use in well stimulation treatment.				
4.8-4	Implement Steps to Compliance as described in MM 4.8-1, MM 4.8-17, MM 4.8-18				
4.8-5	**MM 4.8-17** The Applicant shall determine whether any proposed construction or alteration meets requirements for notification of the Federal Aviation Administration. If a proposed construction or alteration is found to require notification, the Applicant shall notify the Federal Aviation Administration and request that the	Provide with Application Package; During construction and operation	KC PCDD; Federal Aviation Administration		

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		Federal Aviation Administration issue a Determination of No Hazard to Air Navigation. If the Federal Aviation Administration determines that the construction or alteration would result in a potential hazard to air navigation, the Applicant would be required to work with the Federal Aviation Administration to resolve any adverse effects or airport operations. The Applicant shall notify the Federal Aviation Administration and the nearest Airport, by completing and submitting Federal Aviation Administration Form 7460-1 if oil and gas related exploration, production, or associated development activities are planned that meet one or more of the following criteria: a. Any construction or alteration exceeding 200 feet above ground level. b. Any construction or alteration within 20,000 feet of all public use airports except Poso-kern Airport which exceeds a 100:1 surface from any point on the runway. c. Any construction or alteration within 10,000 feet of the Poso-Kern Airport which exceeds a 50:1 surface from any point on the runway. d. Any construction or alteration within 5,000 feet of a public use heliport which exceeds a 25:1 surface. e. When requested by the Federal Aviation Administration. f. Any construction or alteration located on a public use airport or heliport regardless of height or location.	**Steps to Compliance:** A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department and Federal Aviation Administration will verify.			
	MM 4.8-18	The Applicant shall determine the distance from the proposed operation to the nearest boundary of the Joint Service Restricted R-2508 Complex, using a map of this Complex provided by the County. The Applicant shall notify the Joint Service Restricted R2508 Complex representative identified by the County if oil and gas related exploration, production, or associated development activities are planned that meet one or more of the following criteria: a. Any structure within 75 miles of the R-2508 Complex that is greater than 50 feet tall. b. Any project within 50 miles of the R-2508 Complex that emit radio and communication frequencies. c. Any project that would create environmental impacts such as visibility or elevated obstructions within 25 miles of the R-2508 Complex.	Provide with Application Package; During construction and operation	KC PCDD		
			Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
	MM 4.8-19	All oil and gas related development activities shall review the Kern County Airport Land Use Compatibility Plan for compliance with all applicable policies.	Provide with Application Package; During construction and operation	KC PCDD; Kern County Airport		
			Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
4.8-8	**MM 4.8-20**	The Applicant is required to implement the following measures: a. Comply with Kern County Fire Codes.	Provide with Application Package;	KC PCDD; Kern County Fire		

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	b. Maintain firefighting apparatus and supplies required by the Kern County Fire Department. c. Maintain of a list of all relevant fire-fighting authorities for each work site. d. Have available equipment to extinguish incipient fires and or construction of a fire break, such as: chemical fire extinguishers, shovels, axes, chain saws, etc. e. Carry water or fire extinguishers and shovels in non-passenger vehicles in the field. f. Have and maintain an adequate supply of fire extinguishers for welding, grinding, and brushing crews. g. Use available resources to protect individual safety and to contain any fire that occurs and notify local emergency response personnel. h. Remove any flammable wastes generated during oil and gas activities regularly. i. Store all flammable materials used in oil and gas activities away from ignition sources and in approved containers. j. Allow smoking only in designated smoking areas. k. Prohibit smoking where flammable products are present and when the fire hazard is high. Train personnel regarding potential fire hazards and their prevention. l. All internal combustion engines, stationary and mobile, shall be equipped with spark arresters. Spark arresters shall be in good working order. m. Light trucks and cars with factory-installed (type) mufflers shall be used only on roads where the roadway is cleared of vegetation. Said vehicle types shall maintain their factory-installed (type) muffler in good condition. n. Fire rules shall be posted on the Project bulletin board at the contractor's field office and areas visible to employees. o. Equipment parking areas and small stationary engine sites shall be cleared of all extraneous flammable materials. p. Personnel shall be trained in the practices of the Fire Safety Plan relevant to their duties. Construction and maintenance personnel shall be trained and equipped to extinguish small fires in order to prevent them from growing into more serious threats.	During construction and operation	Department		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department and Kern County Fire Department will verify.			
	MM 4.8-21 The Applicant should restrict the use of chainsaws, chippers, vegetation masticators, grinders, tractors, torches, and explosives at its locations, and ensure the sites where this equipment is used are equipped with portable or fixed fire extinguishers and/or a water tank, with hoses, fire rakes, and other tools to extinguish and or control incipient stage fires. The Worker Environmental Awareness Program shall include fire prevention and response training for workers using these tools.	Provide with Application Package; During construction and operation	KC PCDD		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures.			

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		B. The Kern County Planning and Community Development Department will verify.			
4.8-9	**MM 4.8-22** Applicants shall ensure that trash is stored in closed containers and removed from the site at regular intervals. Open containers shall be inverted and construction ditches shall not be allowed to accumulate water. Construction and maintenance operations shall not generate standing water. Naturally occurring depressions, drainages, or pools at the site shall not be drained or filled without consulting with the appropriate resource agency (Kern County, United States Army Corps of Engineers, United States Fish and Wildlife Service, California Department of Fish and Wildlife) as applicable, and obtaining the appropriate permits.	During construction and operation	KC PCDD		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
4.8-10	Implement MM 4.8-1 through MM 4.8-22, as described above, and dust control and toxic air contaminant setback mitigation measure, as described in Section 4.3, Air Quality, risk reduction measures, as described in Section 4.6, Geology and Soils, and mitigation measures to maintain water quality, as described in Section 4.9, Hydrology and Water Quality.				
Hydrology and Water Quality					
4.9-1	**MM 4.9-1** The Applicant shall comply with all applicable federal, state, regional and local agency water quality protection laws and regulations, and commonly utilized industry standards, including (where applicable) obtaining coverage under the stormwater construction general permit and industrial general permit issued by the State Water Resources Control Board and complying with industry stormwater management standards for construction and operational activities. The applicant shall obtain all required permits from Division of Oil Gas and Geothermal Resources, and such permits shall include measures that will safeguard protected groundwater with appropriate casing, seal and related down-hole technical specifications.	During construction and operation	KC PCDD; State Water Resources Control Board; Environmental Protection Agency		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Applicant shall a Stormwater Management Plan. C. The Applicant shall submit in writing approval from federal and state agencies verifying permit approval. D. The Kern County Planning and Community Development Department will verify.			
	MM 4.9-2 A. Oil and Gas activities in Tier 1 shall comply with the following. 1. In areas subject to National Pollutant Discharge Elimination System stormwater permitting requirements, project applicants shall file a Notice of Intent to the State Water Resources Control Board to comply with the statewide General Permit for Discharges of Stormwater Associated with Construction Activities (Construction General Permit State Water Resources Quality Control Board Order No 2009-009-DWO) prior to undertaking all ground-disturbing activities greater than one acre and shall prepare and implement a Stormwater Pollution Prevention Plan for construction activities on the Project site in accordance with the Construction General Permit. For facilities requiring coverage under the Construction General Permit,	Provide with Application Package; During construction and operation	KC PCDD; Kern County Public Works Department		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Applicant shall submit a drainage plan. C. The Applicant shall submit in writing approval from federal and state agencies verifying permit approval. D. The Kern County Engineering, Surveying and Permit Services Department will verify.			

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	the site specific Stormwater Pollution Prevention Plan shall include measures to achieve the following objectives: (1) all pollutants and their sources, including sources of sediment associated with construction activity are controlled; (2) all non-stormwater discharges are identified and either eliminated, controlled and treated, (3) site Best Management Practices are effective and result in the reduction or elimination of pollutants in stormwater discharges and authorized non-stormwater discharges from construction activity and (4) stabilization Best Management Practices to reduce or eliminate pollutants after construction are completed. The Stormwater Pollution Prevention Plan shall be prepared by a qualified preparer and shall include the minimum Best Management Practices required for the identified risk level. The Stormwater Pollution Prevention Plan shall include a construction site monitoring program that identified requirements for dry weather visual observations of pollutants at all discharge locations and, as appropriate, depending on the project risk level, sampling of site effluent and receiving waters. A qualified Stormwater Pollution Prevention Plan practitioner shall be responsible for implementing and all monitoring for the Best Management Practices as well as all inspection, maintenance and repair activities at the project site. If applicable, each project shall also implement and fully comply with the Industrial Storm Water Permit (Order No 97-03-DWO) and Kern County Municipal Stormwater Permit (Order No 5-01-120). All plans under these requirements shall be submitted to Kern County Public Works for review and approval. 2. Any operator of a facility that meets the following requirements is not required to be covered by the Construction General Permit (State Water Regional Control Board Memorandum dated 5-18-2010): a. discharges of stormwater runoff from oil and gas exploration, production, processing or treatment operations or transmission facilities, including field activities or operations that may be considered construction activity; 1. are not contaminated by contact with, or do not come into contact with, any overburden, raw material, intermediate products, finished product, byproduct or waste products; 2. are only contaminated by or only come into contact with sediment; and 3. pursuant to 40.C.F.R. § 122.26(c)(1) (iii) that do not contribute to a violation of a water quality standard. Any change to this State Water Regional Control Board determination will require full compliance with National Pollutant Discharge Elimination System requirements. 3. Any operator not subject to National Pollutant Discharge Elimination				

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	System stormwater permitting requirements shall implement Best Management Practices during construction and operation. All selected practices shall be shown on a drainage implementation plan and self-certified as complete and feasible by a licensed professional qualified in drainage and flood control issues. The plan shall be submitted to the Kern County Planning and Community Development department. The following Best Management Practices shall be implemented and shown on the drainage implementation plan : a. Utilizing established facilities design, construction or similar standards as appropriate (e.g., American Society for the Testing and Materials (ASTM) American Petroleum Institute (API)). b. Implementation good housekeeping and maintenance practices: i. Preventing trash, waste materials and equipment from construction storm water. ii. Maintaining wellheads, compressors, tanks and pipelines in good condition without leaks or spills. iii. Designing and maintaining graded pads to not actively erode and discharge sediment iv. Maintaining vehicles in good working order v. Providing secondary containment for all –above –ground storage tanks and maintaining such containment features in good operating condition c. Implementing spill prevention and response measures i. Utilizing preventative operating practices such as tank level monitoring, safe chemical handling and conducting regular inspections. ii. Developing and maintaining a spill response plan iii. Conducting spill response training for employees and have a process to ensure contractors have the necessary training iv. Maintaining spill response equipment on site. d. Implementing material storage and management practices: i. Preventing unauthorized access ii. Utilizing "run-on" and "run-off" control berms and swales iii. Stabilizing exposed slopes through vegetation and other appropriate methods (e.g., hay bales or rolls). B. Oil and gas activities outside Tier 1 shall comply with all applicable state and federal stormwater management laws. For any oil and gas activity outside Tier 1 that is not subject to state or federal stormwater management				

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	laws, regulations or general permits, the Applicant shall prepare a drainage plan that is designed to minimize runoff and minimize the potential for impeding or redirecting 100-year flood flows. The drainage plan shall be prepared in accordance with the Kern County Grading Code, the Green Code and approved by the Kern County Department of Public Works, Floodplain Management Section. The plan shall specify best management practices to prevent all construction pollutants from contacting stormwater, with the intent of keeping sedimentation or any other pollutants from moving offsite and into receiving waters. The requirements of the Plan shall be incorporated into design specifications. Recommended best management practices for the construction phase must be shown on a drainage plan, and shall include the following: a. Erosion Control - 1. Scheduling of construction activities to avoid rain events. 2. Limiting vegetation removal to the minimum required. b. Sediment Control - 1. Secure stockpiling of soil. 2. Installation of a stabilized construction entrance/exit and stabilization of disturbed areas. c. Non-stormwater Control - 1. Proper fueling and maintenance of equipment and vehicles. 2. Proper concrete handling techniques. d. Waste and Material Management - 1. Properly managing construction materials, designating construction staging areas in or around the Project site. 2. Stockpiling and disposing of demolition debris, concrete, and soil properly. 3. Prompt removal and proper disposal of litter. 4. Proper disposal of demolition debris, concrete and soil. 5. Proper protections for fueling and maintenance of equipment and vehicles. 6. Provide and maintain adequate secondary containment to minimize or eliminate pollutants from moving offsite and into receiving waters. e. Post-Construction Stabilization - 1. Ensuring the stabilization of all disturbed soils per revegetation or application of a soil binder. C. If construction activities will alter federal jurisdictional waters, project applicants shall comply with the federal Clean Water Act Section 404 and Section 401 permitting and certification requirements. If construction activities will alter state waters, project applicants shall comply with California Department of Fish and Wildlife Streambed Alteration requirements.				

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	MM 4.9-3 All drilling operations must either use a closed loop system to avoid discharges of drilling muds and fluids, or obtain coverage under the State Water Resources Control Board low threat discharge General Order (Waste Discharge Requirements General Order 2003-0003-DEW), obtain individual Waste Discharge Requirements issued by the Central Valley Regional Water Quality Control Board for the unit, or obtain coverage under a general order issued by the Central Valley Regional Water Quality Control Board applicable to drilling ponds. Any surface ponds or sumps must be cleared of fluids and muds in accordance with the State Water Resources Control Board general order, applicable Water Discharge Requirements and Division of Oil Gas and Geothermal Resources regulations. Compliance with the State Water Resources Control Board or Central Valley Regional Water Quality Control Board low-threat discharge orders or Water Discharge Requirements, if closed-loop systems are not used, and applicable laws, regulations and standards will reduce potential surface water quality impacts from contact with drilling muds or fluids during drilling and construction to less than significant levels. After consultation with and approval by the Regional Water Board with jurisdiction over injection and groundwater, applicant shall provide for a tracer or some other reasonable method to allow well stimulation fluids to be distinguished from other fluids or chemicals for well stimulation permits. This could consist of an added tracer using an inert constituent that could be used to identify the presence of well stimulation fluids. Alternatively, it could be an intrinsic tracer, or some naturally occurring component that makes the well stimulation fluids chemically unique. Potential geochemical changes in the subsurface during injection or migration shall be considered. Use of a tracer shall be required to be disclosed to the public under Section 1788 of the SB 4 regulations. The regulations specifically require that the applicant require the composition and disposition of all well stimulation treatment fluids other than water, including "any radiological components or tracers injected into the well as part of the well stimulation treatment, a description of the recovery method, if any, for those components or tracers, the recovery rate, and specific disposal information for the recovered components or tracers a radiological component or tracer injected" (Section 1788 (15)). For any well stimulation treatment activity, the applicant shall not conduct well stimulation treatment activity until the State Water Resources Control Board, in consultation with the Central Valley Regional Water Quality Control Board, has approved either a groundwater monitoring plan or exclusion from groundwater monitoring for a given well, consistent with the State Water Resources Control Board Model Criteria for Groundwater Monitoring in Areas of Oil and Gas Well Stimulation.	During construction and operation	KC PCDD; State Water Resources Control Board; Central Valley Regional Water Quality Control Board		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. Obtain Waste Discharge Permit. C. The Kern County Planning and Community Development Department will verify.			
	MM 4.9-4 For any activity for which Chapter 19.98 applies, the Applicant shall not	During construction and	KC PCDD;		

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	conduct any Class II injection activity regulated by the Underground Injection Control program, including enhanced oil recovery activities that discharge into any underground source of current or future beneficial use groundwater, including drinking water, unless the aquifer has been exempted by the United States Environmental Protection Agency or injection has otherwise been authorized by the U.S. Environmental Protection Agency or by the Division of Oil Gas and Geothermal Resources, in consultation and agreement by the State Water Resources Control Board, consistent with Public Resources Code 3131.	operation	Environmental Protection Agency; Division of Oil Gas and Geothermal Resources		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
	MM 4.9-5 For any activity for which Chapter 19.98 applies, the Applicant shall not discharge produced water into any surface disposal facility unless the facility has received the Waste Discharge Requirements from the Central Valley Regional Water Quality Control Board, or the need for Water Discharge Requirements has been waived by the Central Valley Regional Water Quality Control Board. As required by the SB 4 regulations, well stimulation treatment fluids and produced fluids from wells that have been stimulated cannot be stored, discharged, or disposed into surface ponds or pits.	During construction and operation	KC PCDD; Central Valley Regional Water Quality Control Board		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
	MM 4.9-6 For any oil and gas activity within a Special Flood Hazard Area, the Applicant shall ensure that all constructed facilities are elevated or floodproofed in compliance with the requirements and standards found in the Kern County Floodplain Management Ordinance and Chapters 19.50 and 19.70 of the Kern County Zoning Code.	Provide with Application Package; During construction and operation	KC PCDD		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
4.9-2 4.9-3 4.9-4 4.9-6 4.9-8 4.9-9 4.9-11	Implement Steps to Compliance MM 4.9-1 through MM 4.9-6				
Land Use and Planning					
4.10-1	Implement specified mitigation measures, including those that are applicable from Section 4.1, Aesthetics and Visual Resources, Section 4.3, Air Quality, Section 4.4 Biological Resources, Section 4.12, Noise, Section 4.15, Recreation, and Section 4.17, Utilities and Service Systems.				
Noise					
4.12-1	**MM 4.12-1** **Construction:**	Provide with Application	KC PCDD		

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	The Site Plan Application shall include a Site Vicinity Figure showing the location of any sensitive receptor(s) within the distances listed in the construction noise setbacks table, as shown below, of the construction site (potential impact area) for the proposed new well or other ancillary facility or equipment (excluding pipelines). This Figure need not be prepared for Tier 1 areas unless a sensitive receptor is located within 3,270 feet of a construction site inside the Tier 1 area. a. If there are no sensitive noise receptors within this potential impact area, then no construction mitigation measures shall be required. b. If there are sensitive human noise receptors within the potential impact area, then additional information must be provided showing the type of equipment being used and the noise contours with levels not exceeding 65 dB DNL at the nearest exterior wall of the sensitive receptor or more than 1 dB DNL higher than the ambient noise levels, if in excess of 65 dB DNL. If noise levels are shown to exceed 65 dB DNL or more than 1 dB DNL higher than the ambient noise levels in excess of 65 dB DNL, then one or more of the following mitigation measures shall be taken: 1. Placement of a temporary sound attenuation wall(s) shall be placed at the optimal distance to the sensitive receptor, as determined by an acoustical expert. 2. Construction of a temporary berm shall be placed at the optimal distance to the sensitive receptor, as determined by an acoustical expert. 3. Modification of equipment to reduce noise impacts. 4. Implementation of a quiet mode drilling plan or other sound reduction technology or practices as documented in a report submitted to the County. 5. Arranging for the voluntary, temporary relocation of the occupants of the sensitive receptor during the construction period. 6. Use the following setback distances for the activities specified: **Construction Noise Setbacks** **Activity** / **Setback Distance (feet)** Drilling (Well Advancement) / 1550 Drilling (Pull Out Of Well/Borehole) / 820 Large-Scale Exploratory Drilling[1] / 3270	Package; During construction and operation			
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	Well Workover 930 Hydraulic Fracturing 1090 Note: Note: [1]Kenai Drill Rig #7 Information submitted with the Site Plan Application must detail the combination and methods used to determine the level of reduction and shall not exceed 65 dB DNL or any ambient levels in excess of 65 dB DNL or more than 1 dB DNL higher than the ambient noise levels, if in excess of 65 dB DNL .				
	MM 4.12-2 **Operation:** New oil and gas wells shall be a minimum 210 feet from the closest sensitive receptor. Geophysical testing methods using vibroseis vehicles to generate sound waves shall be a minimum 150 feet from the closest occupied building, water well, sewer system, and septic tank. Geophysical testing methods using shotholes that employ explosives shall be a minimum 300 feet from the closest occupied building, water well, sewer system, and septic tank, and shall be in full compliance with all laws governing explosives.	Provide with Application Package; During construction and operation	KC PCDD		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
4.12-3	Implement MM 4.12-2 Steps to Compliance				
4.12-4	Implement MM 4.12-1 Steps to Compliance				
4.12-5 4.12-6 4.12-7	Implement MM 4.12-1 and MM 4.12-2 Steps to Compliance.				
Public Services					
4.14-1	**MM 4.14-1** Applicant shall contribute to funding the acquisition of a Combination Walk-in/Non-Walk-in Industrial Firefighting vehicle capable of responding with a minimum of five firefighters with the tools and equipment necessary for industrial firefighting and rescue. Each Applicant shall pay $150 per well on each Oil and Gas Conformity Review permit until the total cost of the vehicle purchase is reached, not to exceed $850,000, to be paid through mitigation fees on Oil and Gas Conformity Review permits. Subsequent Applicants shall not be subject to this mitigation measure.	Provide with Application Package; During construction and operation	Kern County KC PCDD		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
	MM 4.14-2 Applicant shall provide funding in the amount of $425 per Oil and Gas Conformity Review permit issued for the Sheriff's Rural Crime Unit. Funding shall be used for one Sergeant, two Senior Deputies (investigators), three Deputies, One Support Technician (clerical), and helicopter usage, based on the amount of funding provided by this permit mitigation fee. The fee shall be in addition to any general funds received by the Sheriff's Department. The Sheriff's department shall annually report on the expenditure of funds for the	Provide with Application Package; During construction and operation	KC PCDD		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures.			

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	Rural Crimes Unit, including incident reports and response times. If other sources of funding for the Rural Crimes Unit are secured, then the mitigation fee amount shall be adjusted to pay only the gap between actual costs and funding provided from other sources. The first 100 permits issued in a calendar year to certified small producers under the Small Producers Program included in the Project shall not pay this mitigation fee based on their very low proportionate use of the Rural Crimes Unit (100 permits are estimated to generally be less than 5% of the permits issued annually).	B. The Kern County Planning and Community Development Department will verify.			
4.14-2	Implement MM 4.14-1 and MM 4.14-2 Steps to Compliance.				
Traffic and Transportation					
4.16-1	**MM 4.16-1** The Applicant shall pay a road maintenance mitigation fee of $1,500 per permit for new wells to pay for roadway maintenance and related improvements to address wear and tear on roads caused by oil and gas industry traffic. The Kern County Public Works Department shall annually report on the expenditure of funds from the Oil and Gas Roadway Maintenance Fee. Expenditures from the fund shall be as determined by the Roads Commissioner, using as a reference the list of roadways identified in the Environmental Impact Report as being used for traffic by the oil and gas industry. If Kern County secures funding from a sales tax dedicated to transportation funding, then the amount of the traffic mitigation fee shall be re-evaluated at the time the County becomes a self-help county. The first 100 permits issued in a calendar year to certified small producers under the Small Producers Program included in the Project shall not pay this mitigation fee based on their very low proportionate roadway use (100 permits are estimated to generally be less than 5% of the permits issued annually).	Provide with Application Package; During construction and operation	KC PCDD; Kern County Public Works Department		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
	MM 4.16-2 Applicants who are using an arterial or collector, or Caltrans route, for access to a construction site, shall consult with the Kern County Public Works Department to determine if a Construction Traffic Control Plan is required based on the timing and volume of larger vehicle rigs and the volume of traffic to address public safety and congestion management. If a Plan is required, the Applicant shall prepare and submit a Construction Traffic Control Plan to the Kern County Public Works Department and to the California Department of Transportation (District 9 office) for approval. The Construction Traffic Control Plan must be prepared in accordance with both the California Department of Transportation Manual on Uniform Traffic Control Devices and Work Area Traffic Control Handbook and shall include, but not be limited to, the following issues: a. Timing of deliveries of heavy equipment and building materials. b. Placing temporary signing, lighting, and traffic control devices as necessary to indicate the presence of heavy vehicles and construction traffic. c. Determining the need for construction work hours and	Provide with Application Package; During construction and operation	Kern County Public Works Department		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Public Works Department will verify.			

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	arrival/departure times outside peak traffic periods. d. Ensuring access for emergency vehicles to the Project site. e. Any temporary closure of travel lanes or disruptions to street segments and intersections during well development. f. Maintaining access to adjacent property.				
4.16-2	Implement MM 4.16-2 Steps to Compliance.				
4.16-3	Implement airport-related mitigation measures, as described in Section 4.8, Hazards and Hazardous Materials.				
4.16-4 4.16-5 4.16-6	Implement MM 4.16-2 Steps to Compliance.				
4.16-7	Implement of MM 4.16-1 and MM 4.16-2 Steps to Compliance.				
Utilities and Service System					
4.17-2	**MM 4.17-1** Prior to the issuance of building permits for an operations and maintenance building, the method of sewage disposal shall be as required and approved by the Kern County Public Health Services Department. Compliance with this requirement will necessitate that the Project proponent obtain the necessary approvals for the design of the septic system from the Kern County Department of Public Works. The septic system disposal field shall be located a minimum of 100 feet from a classified stream or 25 feet from a non-classified stream and shall not be located where it would impact State wetlands or special-status plant species.	Provide with Application Package; During construction and operation	Kern County Public Works Department		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
4.17-4	**MM 4.17-2** Applicant shall increase the re-use of produced water, and reduce its use of municipal and industrial-quality ground or surface water use to the extent feasible. By the end of 2016, the Applicants shall work with the County to review water use data submitted to Division of Oil Gas and Geothermal Resources under Senate Bill 1281 and identify the five biggest oil industry users of municipal and industrial water by volume. The five biggest oil industry users of municipal and industrial water shall work together to develop and implement a plan identifying new measures to reduce municipal and industrial water use by 2020. The plan shall address the following activities, as appropriate: steam generation; drilling and completions (including hydraulic fracturing); dust control; compaction activities related to construction; and landscaping. Through the KernFLOWS initiative or other efforts (e.g., Groundwater Sustainability Agency), the five biggest oil industry users of municipal-and-industrial water shall also work with local agricultural producers and water districts to identify new opportunities to increase the use of produced water for agricultural irrigation and other activities, as appropriate. Any produced water treated and used for agricultural irrigation or other activities shall be tested and monitored to assure compliance with applicable standards for such agricultural irrigation or other uses.	During construction and operation	KC PCDD		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	MM 4.17-3 In the County's required participation for the formulation of a Groundwater Sustainability Agency, the Applicant shall work with the County to integrate into the Groundwater Sustainability Plan for the Tulare Lake-Kern Basin, best practices from the oil and gas industry to encourage the re-use of produced water from oil and gas activities, and (with appropriate treatment) to produce new water supplies for other uses such as agricultural irrigation and groundwater recharge. The produced water re-use goal is 30,000 acre-feet per year, which would offset more than the current use of imported water and groundwater from non-oil bearing zones by the oil and gas industry.	Provide with Application Package; During construction and operation	KC PCDD		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
	MM 4.17-4 The Applicant shall work with the County on the Groundwater Sustainability Plan to increase Applicant use of reclaimed water and reduce the Applicant's use of municipal-and-industrial quality imported surface water or groundwater. The Applicant will provide copies of water use reports produced under SB 1281 to the Groundwater Management Agency, which will then integrate this information into the Groundwater Sustainability Plan required under the Sustainable Groundwater Management Act.	Provide with Application Package; During construction and operation	KC PCDD		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
4.17-5	Implement MM 4.17-1 Steps to Compliance.				
4.17-6	**MM 4.17-5** During construction activities for Project facilities, the Applicant shall not store construction waste onsite for longer than the duration of the construction activity, or transport any waste to any unpermitted facilities. The Applicant shall also reduce construction waste transported to landfills by recycling solid waste construction materials, such as taking materials to recycling and reuse locations listed in the brochure on recycling construction and demolition materials available on the Kern County Waste Management Department website.	During construction	KC PCDD		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
4.17-7	Implement MM 4.17-5 Steps to Compliance.				
4.17-8	Implement MM 4.17-1 through MM 4.17-5 Steps to Compliance.				

Ordinances

ORDINANCE NO. G-8605

AN ORDINANCE OF THE BOARD OF SUPERVISORS OF THE COUNTY OF KERN, STATE OF CALIFORNIA, AMENDING CHAPTERS 19.08, 19.12, 19.14, 19.26, 19.38, 19.40, 19.44, 19.46, 19.48, 19.50, 19.66, 19.81, 19.98, 19.102, AND 19.108 OF TITLE 19, OF THE ORDINANCE CODE CONCERNING OIL AND GAS ACTIVITIES

The following ordinance, consisting of twenty-six (26) sections was duly and regularly passed and adopted by the Board of Supervisors of the County of Kern, State of California, at a regular meeting of the Board of Supervisors held on the 9th day of November, 2015, by the following vote:

AYES: Gleason, Scrivner, Maggard, Couch, Perez

NOES: none

ABSENT: none

Chairman of the Board of Supervisors of
the County of Kern, State of California

(SEAL)
ATTEST:

KATHLEEN KRAUSE
Clerk of the Board of Supervisors

Deputy Clerk

THE BOARD OF SUPERVISORS OF THE COUNTY OF KERN ORDAINS AS FOLLOWS:

Section 1. This ordinance shall be published in accordance with Government Code section 25124 and it shall take effect and be in full force on and after the 9th day of December, 2015.

Section 2. Section 19.08.230 of Chapter 19.08, Title 19 of the Ordinance Code of the County of Kern is amended to read as follows:

19.08.230 Regional or Interstate Transmission Pipeline Facilities - County Review.

Before any right-of-way for transmission lines is acquired for regional or interstate facilities, the proposed route shall be submitted for the Planning Director review and recommendation.

Section 3. Section 19.12.020 of Chapter 19.12, Title 19 of the Ordinance Code of the County of Kern is amended to read as follows:

19.12.020 Permitted Uses.

E. Resource Extraction and Energy Development Uses

— Electrical power generating plant in conjunction with a biogas recovery system associated with a confined animal facility, subject to the criteria specified in Section 19.12.130.G

— Explosives storage, temporary

— Mineral exploration

— Oil or gas exploration and production pursuant to Chapter 19.98 of this title

— Solar energy electrical generators which are accessory to a permitted or conditionally permitted use and where the power generated does not exceed the total on-site power demand

— Small wind energy system, pursuant to Section 19.08.415, except when all criteria specified below for wind-driven electrical generators will be satisfied , in which case a small wind energy system permit pursuant to Section 19.08.415 shall not be required

— Wind-driven electrical generators when accessory to a permitted or conditionally permitted use where:

1. The system employed is designed to supplement other electricity sources, or as an accessory use to existing buildings or facilities, wherein the power generated is used primarily for on-site consumption.

2. The wind generators are located a minimum distance of one times (1x) the overall machine height from any property line.
3. The parcel on which the wind generators will be erected does not abut a residential zoning district.
4. The wind generator(s) will be located a minimum of one and one-half (1 1/2) times the overall height to any off-site dwelling.
5. The proposed height of the wind turbines does not exceed the maximum heights specified in Figure 19.08.160.

Section 4. Section 19.12.030 of Chapter 19.12, Title 19 of the Ordinance Code of the County of Kern is amended to read as follows:

19.12.030 Uses Permitted With a Conditional Use Permit.

G. Resource Extraction and Energy Development Uses

— Backfilling of surface mines with inert, nonorganic fill material, limited to construction and demolition wastes, where a Solid Waste Facility Permit is not required

— Cogeneration facility or steam generators, primarily intended for production of oil or gas

— Concrete or asphalt batch plant

— Dam, small hydro

— Dam, large hydro

— Electrical power generating plant

— Explosives storage, permanent

— Mining and mineral extraction pursuant to Chapter 19.100 of this title

— Rock, gravel, sand, concrete, aggregate, or soils crushing, processing, or distribution

— Solar energy electrical generators when not accessory to a permitted or conditionally permitted use

— Wind-driven electrical generators when accessory to a permitted or conditionally permitted use which do not comply with the installation standards specified in Section 19.12.020.E.

Section 5. Section 19.14.020 of Chapter 19.14, Title 19 of the Ordinance Code of the County of Kern is amended to read as follows:

19.14.020 Permitted Uses.

E. Resource Extraction and Energy Development Uses

— Mineral exploration

— Oil or gas exploration and production pursuant to Chapter 19.98 of this title, including the temporary installation of commercial coaches as accessory to this activity, not to exceed a two- (2-) year period

— Solar energy electrical generator which are accessory to a permitted or conditionally permitted use and where the power generated does not exceed the total on-site power demand

— Small wind energy system, pursuant to Section 19.08.415

Section 6. Section 19.14.030 of Chapter 19.14, Title 19 of the Ordinance Code of the County of Kern is amended to read as follows:

19.14.030 Uses Permitted With A Conditional Use Permit.

G. Resource Extraction and Energy Development Uses

— Cogeneration facility or steam generators, primarily intended for production of oil or gas

— Concrete or asphalt batch plant, temporary

— Electrical power generating plant, excluding nuclear or coal powered

— Mining and mineral extraction pursuant to Chapter 19.100 of this title

— Solar energy electrical generators when not accessory to a permitted or conditionally permitted use

— Wind-driven electrical generators, commercial

Section 7. Section 19.26.030 of Chapter 19.26, Title 19 of the Ordinance Code of the County of Kern is amended to read as follows:

19.26.030 Uses Permitted With a Conditional Use Permit.

The following uses are permitted in the MP District with a conditional use permit:

A. Recreation, Entertainment, and Tourist Facilities

— Recreational vehicle park, except as permitted by Subsection 19.26.020.B

B. Miscellaneous Uses

— Drainage sump
— Water system, large
— Water treatment plant

C. Resource Extraction and Energy Development Uses

— Oil or gas exploration and production pursuant to Chapter 19.98 of this title

Section 8. Section 19.38.020 of Chapter 19.38, Title 19 of the Ordinance Code of the County of Kern is amended to read as follows:

19.38.020 Permitted Uses.

H. Resource Extraction and Energy Development Uses

— Cogeneration facility or steam generators, not primarily intended for production oil or gas, excluding coal fired

— Electrical power generating plant, excluding nuclear or coal

— Mineral exploration

— Oil or gas exploration and production pursuant to Chapter 19.98 of this title

— Solar energy electrical generators which are accessory to a permitted or conditionally permitted use and where the power generated does not exceed the total on-site power demand

— Small wind energy system, pursuant to Section 19.08.415

Section 9. Section 19.38.030 of Chapter 19.38, Title 19 of the Ordinance Code of the County of Kern is amended to read as follows:

19.38.030 Uses Permitted With a Conditional Use Permit.

G. Resource Extraction and Energy Development Uses

— Cogeneration facility or steam generators

— Mining and mineral extraction pursuant to Chapter 19.100 of this title

— Ore reduction

— Potash manufacture

— Rock, gravel, sand, concrete, aggregate, or soils crushing, processing, or distribution

— Solar energy electrical generators when not accessory to a permitted or conditionally permitted use

— Wind generators, commercial

Section 10. Section 19.40.020 of Chapter 19.40, Title 19 of the Ordinance Code of the County of Kern is amended to read as follows:

19.40.020 Permitted Uses.

H. Resource Extraction and Energy Development Uses

— Cogeneration facility or steam generators, not primarily intended for production oil or gas, excluding coal fired

— Electrical distribution stations

— Electrical power generating plants, excluding nuclear and coal

— Mineral exploration

— Oil or gas exploration and production pursuant to Chapter 19.98 of this title

— Rock, gravel, sand, concrete, aggregate, or soils crushing, processing, or distribution

— Solar energy electrical generators which are accessory to a permitted or conditionally permitted use and where the power generated does not exceed the total on-site power demand

— Small wind energy system, pursuant to Section 19.08.415

— Wind-driven electrical generators when accessory to a permitted or conditionally permitted use where:

1. The annual amount of power generated does not exceed the total on-site annual power demand.

2. The wind generators are located a minimum distance of one (1) times the overall machine height from any property line.

3. The parcel on which the wind generators will be erected does not abut a residential zoning district.

4. The wind generator(s) will be located a minimum of one (1) times the overall height to any off-site dwelling.

5. The proposed height of the wind turbines does not exceed the maximum heights specified in Figure 19.08.160.

Section 11. Section 19.40.030 of Chapter 19.40, Title 19 of the Ordinance Code of the County of Kern is amended to read as follows:

19.40.030 Uses Permitted With a Conditional Use Permit.

G. RESOURCE EXTRACTION AND ENERGY DEVELOPMENT USES

— Cogeneration facility or steam generators

— Electrical power generating plant, nuclear or coal powered

— Mining and mineral extraction pursuant to Chapter 19.100 of this title

— Solar energy electrical generators when not accessory to a permitted or conditionally permitted use

— Wind-driven electrical generators, commercial

— Wind-driven electrical generators when accessory to a permitted or conditionally permitted use which do not comply with the installation standards specified in Section 19.12.020.E.

Section 12. Section 19.44.030 of Chapter 19.44, Title 19 of the Ordinance Code of the County of Kern is amended to read as follows:

19.44.030 Uses Permitted With a Conditional Use Permit.

The following uses and all others determined to be similar to these uses pursuant to Sections 19.08.030 through 19.08.080 of this title are all permitted in the OS District subject to securing a conditional use permit in accordance with the standards and procedures set out in Chapter 19.104 of this title:

A. RECREATION, ENTERTAINMENT, AND TOURIST FACILITIES

— Park

— Roads or trails for motor driven vehicles, excluding race courses

B. INSTITUTIONAL USES

— Public service uses

C. TRANSPORTATION FACILITIES

— Auto parking lot

D. RESOURCE EXTRACTION AND ENERGY DEVELOPMENT USES

— Oil or gas exploration and production pursuant to Chapter 19.98 of this title

E. MISCELLANEOUS USES

— Restrooms and shelters

— Scientific study sites for the systematic exploration and classification of archaeological, anthropological, or historic artifacts or remains

Section 13. Section 19.46.020 of Chapter 19.46, Title 19 of the Ordinance Code of the County of Kern is amended to read as follows:

19.46.020 Permitted Uses.

E. RESOURCE EXTRACTION AND ENERGY DEVELOPMENT USES

— Accessory structures and equipment storage for natural resource extraction or processing uses

— Explosives storage, temporary, subject to approval by the Kern County Fire Department

— Mineral exploration

— Oil or gas exploration and production pursuant to Chapter 19.98 of this title

— Solar energy electrical generators which are accessory to a permitted or conditionally permitted use and where the power generated does not exceed the total on-site power demand

— Small wind energy system, pursuant to Section 19.08.415

Section 14. Section 19.46.030 of Chapter 19.46, Title 19 of the Ordinance Code of the County of Kern is amended to read as follows:

19.46.030 Uses Permitted With a Conditional Use Permit.

G. RESOURCE EXTRACTION AND ENERGY DEVELOPMENT USES

— Cogeneration facility or steam generators

— Concrete or asphalt batch plant

— Electric power generating plant

— Explosives storage

— Mining and mineral extraction pursuant to Chapter 19.100 of this title

— Rock, gravel, sand, concrete, aggregate, or soils crushing, processing, or distribution

— Solar energy electrical generators when not accessory to a permitted or conditionally permitted use

— Wind-driven electrical generators, commercial or domestic

Section 15. Section 19.48.080 of Chapter 19.48, Title 19 of the Ordinance Code of the County of Kern is amended to read as follows:

19.48.080 Height Limits.

Height limits in the DI District are as follows:

A. None on derricks and other equipment used during the exploration and drilling phase of development.

B. Pumping units shall not exceed eighty (80) feet in height.

Section 16. Section 19.48.130 of Chapter 19.48, Title 19 of the Ordinance Code of the County of Kern is amended to read as follows:

19.48.130 Special Review Procedures and Development Standards.

A. All drilling and other hydrocarbon development activity in the DI District shall be carried out in accordance with the standards and procedures set out in Section 19.98.060 of this title. All activities subject to an Oil and Gas Conformity Review or Minor Activity Review shall comply with the provisions of Section 19.98.060 of the title.

B. Development in the DI District shall comply with the interpretations and provisions of Chapter 19.08 of this title.

Section 17. Section 19.50.130 of Chapter 19.50, Title 19 of the Ordinance Code of the County of Kern is amended to read as follows:

19.50.130 Special Review Procedures and Development Standards.

A. All development within the FPP District is subject to the requirements of the Flood Damage Prevention Ordinance, Chapter 17.48 of this code.

B. Development in the FPP District shall comply with the interpretations and provisions of Chapter 19.08 of this title.

C. Oil or gas exploration and production shall comply with Section 19.98.060 and the following standards:

1. The following uses are permitted within the FPP District if they will not obstruct flows, will not cause peripheral flooding of other properties, will not cause any increase in flood levels during the occurrence of the base flood discharge, will be resistant to floatation and immune to extensive damage by flooding, and will not endanger life or property:

a. All oil or gas wells, including pumps and all other associated equipment.

b. Feasible remedial work, improvements, and flood-proofing of facilities.

2. No oil or gas well shall be drilled on the slope or within ten (10) feet of the top or toe of the bank of a river or stream located within the FPP District. The required setback on the top of bank shall be measured from an imaginary plane on a slope two (2) horizontal to one (1) vertical projected upward from the toe of the existing bank.

3. All oil or gas wells in the FPP District, including pumps and all other associated equipment, shall be designed such that they are resistant to damage by flooding.

4. All pipelines in the FPP District shall be flood-proofed by burial to sufficient depth to prevent rupture during flood conditions or by suspension at least two (2) feet above the surface of the base flood. Supports for elevated pipelines shall also carry a catwalk to facilitate removal of debris caught by supports during floods.

5. The location of all buried pipelines shall be recorded on appropriate maps by the company that owns said pipelines, and the maps shall be made available to any public agency that shall request a copy.

6. All drilling, redrilling, and producing, including remedial work, well pulling, work-overs, and deepening, shall conform to all applicable fire, safety, spacing, and environmental State law and regulations.

7. Proven technological improvements generally accepted and used in drilling and production methods shall be adopted as they may from time to time become available, if capable of reducing factors of nuisance and annoyance.

8. Prior to the commencement of any drilling, a copy of a Spill Prevention Control and Countermeasure Plan, as required by the United States Environmental Protection Agency, shall be filed with the Kern County Public Works Department.

9. All pumps expected to be inaccessible during times of flood shall be equipped with an accessible remote switch to shut off the pumps during emergencies.

10. The derrick, all boilers, and all other drilling equipment used pursuant to this chapter to drill any well hole or to repair, clean out, deepen, or redrill any completed or drilling well shall be removed within ninety (90) days after completion of production tests following completion of such drilling, or after abandonment of any well, unless such derrick, boilers, and drilling equipment are to be used within a reasonable time limit, determined by the Kern County Public Works Department, for the drilling of another well or wells on the premises.

11. After any well has been placed in production, no earthen sumps shall be used for the storage of petroleum or gas.

12. Within ninety (90) days after any well has been placed in production or after its abandonment, earthen sumps used in drilling or production or both shall be emptied by vacuum truck or other approved means, then filled, and the drilling site restored as nearly as practicable to a uniform grade, unless such sumps are to be used within a reasonable time limit, as determined by the Kern County Public Works Department.

13. Any derrick used for servicing operations shall be of the portable type; provided, however, that upon presentation of proof that the well is of such depth or has such other characteristics, or for other cause, that a portable-type derrick will not properly service such well, the Kern County Public Works Department may approve the use of a standard type of derrick.

14. Directional and warning signs, and those required for identification of the well, shall be constructed, erected, placed, or maintained on the premises, except those required by law to be displayed in connection with the drilling or maintenance of the well.

15. If a producing or service well is not secured twelve (12) months from the date of commencement of drilling operations or any extended period granted by the Kern County Public Works Department, the premises shall be restored to the original condition as nearly as practicable to do so. If at the expiration of the twelve- (12-) month period, the drilling program has not been completed, the Kern County Public Works Department may, upon a written request, grant an additional period of time as requested for the completion of such drilling program.

Section 18. Section 19.66.020 of Chapter 19.66, Title 19 of the Ordinance Code of the County of Kern is amended to read as follows:

19.66.020 Permitted Uses.

The following uses and all others determined to be similar to these uses pursuant to Sections 19.08.030 through 19.08.080 of this title are permitted in a PE District:

A. Wells for the exploration for and development and production of oil or gas or other hydrocarbon substances if the well or wells are located more than two hundred and ten (210) feet away from any existing dwelling or existing building utilized for commercial purposes, excluding those premises utilized solely for storage of equipment, material, household goods, or similar material.

B. Deepening or redrilling, within the existing well bore, of any well used for the production or development of oil or gas or other hydrocarbon substances, or the replacement of any production facility which did not require a conditional use permit on the date drilling began or the date the facility was installed.

C. Drilling of a replacement well when the original well did not require a conditional use permit, and where the original well has been abandoned in accordance with California Division of Oil and Gas regulations and drilling of a replacement well commences within one (1) year of the conclusion of abandonment procedures, and the replacement well is located within twenty (20) feet of the original well or is farther from any existing dwelling or commercial building than the original well.

D. Uses permitted by the base district with which the PE District is combined.

Section 19. Section 19.66.030 of Chapter 19.66, Title 19 of the Ordinance Code of the County of Kern is amended to read as follows:

19.66.030 Uses Permitted By a Conditional Use Permit.

The following uses and all others determined to be similar to these uses pursuant to Sections 19.08.030 through 19.08.080 of this title are permitted in a PE District subject to securing a conditional use permit in accordance with the procedures set out in Chapter 19.104 of this title:

A. Wells for the exploration for and development and production of oil or gas or other hydrocarbon substances if the well or wells are located within two hundred and ten (210) feet of any existing dwelling or existing building utilized for commercial purposes, excluding those premises utilized solely for storage of equipment, material, household goods, or similar material.

B. Conditional uses permitted by the base district with which the PE District is combined.

Section 20. Section 19.66.080 of Chapter 19.66, Title 19 of the Ordinance Code of the County of Kern is amended to read as follows:

19.66.080 Height Limits.

Height limit requirements in a PE District are as follows:

A. No height limit on derricks and other equipment used during the exploration and drilling phase of development.

B. Pumping units shall not exceed eighty (80) feet in height.

C. All other uses permitted by the base district shall conform to the height limits of the base district with which the PE District is combined.

Section 21. Section 19.66.130 of Chapter 19.66, Title 19 of the Ordinance Code of the County of Kern is amended to read as follows:

19.66.130 Special Review Procedures and Development Standards.

All drilling and hydrocarbon development activities in a PE District shall be carried out in accordance with the standards and procedures set out in Section 19.98.060 of this title. All activities subject to an Oil and Gas Conformity Review or Minor Activity Review shall comply with the provisions of Section 19.98.060 of the title.

Section 22. Section 19.81.050 of Chapter 19.81, Title 19 of the Ordinance Code of the County of Kern is amended to read as follows:

19.81.050 Exemptions.

The following are permanently exempt from the provisions of this chapter:

1. Outdoor lighting specifically approved in conjunction with a discretionary permit.

2. Federal and State Facilities: Outdoor light fixtures on, in, or in connection with facilities and land owned or operated by the government of the United States of America or the State of California; however, these agencies are encouraged to comply with the provisions of this ordinance.

3. Airports and Other Lighting Required by the Federal Aviation Administration: Outdoor lighting for public and private airports and any other uses that are regulated by the Federal Aviation Administration.

4. Correctional Institutions: Outdoor lighting for federal, State, and County-owned or operated correctional institutions; however, voluntary compliance with the intent and provisions of this chapter is encouraged.

5. Emergency Light: Temporary emergency lighting needed by the sheriff's department, police department, fire department, public utility, rescue operation or in conjunction with any other emergency service.

6. Temporary Construction: All temporary lighting used for the construction or repair of roadways, utilities, and other public infrastructure.

7. Internally Illuminated Signs: All internally illuminated signs, including those used for on-site and off-site advertising purposes. Such signs are regulated by the provisions of Chapter 19.84 (Signs) of the Kern County Zoning Ordinance.

8. Neon, Argon, or Krypton: All fixtures illuminated solely by neon, argon, or krypton.

9. United States Flag and State of California Flag: Lighting used to illuminate a properly displayed United States Flag and/or the State of California Flag.

10. Lighting Required by Building Codes or other Regulations: Communication towers, exit signs, lighting for stairs/ramps, lighting for points of ingress/egress to buildings, and all other illumination required by air navigation safety provisions, building codes, OSHA standards, and other permitting requirements from State or federal agencies.

11. Fossil Fuel Light: All outdoor light fixtures producing light directly by the combustion of fossil fuels (such as kerosene lanterns, gas lamps, etc.)

12. Street Lighting: Lighting equipment within a public or private right-of-way or easement for the principal purpose of illuminating streets, roadways, and/or other areas open to transport by vehicle or pedestrian traffic.

13. Seasonal Displays: Displays using multiple low wattage bulbs or lasers, provided that they do not constitute a fire hazard, create a nuisance, and are maintained in a safe condition. Such displays shall not be illuminated for more than forty-five (45) days per calendar year.

14. Water Features: Lighting in swimming pools and other water features governed by Article 680 of the National Electrical Code.

15. Temporary Event Lighting: Temporary lighting for special events that does not conform to this chapter shall be reviewed as part of an application for a Temporary Event Permit (TEP), pursuant to Chapter 19.08.340 of the Kern County Zoning Ordinance. Any temporary lighting exemption approved via the TEP process shall be utilized for a period of time that exceeds a combined total of twelve (12) combined days on any one (1) parcel during a calendar year. Exemptions are renewable for a period of not more than twelve (12) additional combined days. Requests for renewal of a temporary exemption shall be processed in the same manner as the original request. No outdoor light fixtures shall be exempted from this chapter for more than twenty-four (24) days combined during a calendar year.

16. Steeples: Lighting used to illumination the tall ornamental tower that forms the superstructure of a church, temple, office building, etc., shall be exempt from this chapter.

17. Temporary Agricultural Activities: Lighting used to illuminate temporary agricultural activities such as harvesting on property zoned A (Exclusive Agriculture) or A-1 (Limited Agriculture) and lasting no more than twelve (12) consecutive days and no more than twenty four (24) combined days on any one parcel during a calendar year.

Section 23. Chapter 19.98 of Title 19 of the Ordinance Code of the County of Kern is amended in its entirety to read as follows:

SECTIONS:

19.98.010 Purpose and Application.
19.98.020 Definitions of Oil and Gas Production Activities.
19.98.030 Oil and Gas Production Boundary Area and Tier Areas.
19.98.040 Oil and Gas Activities By Ministerial Permit.

19.98.050 Oil and Gas Activities By Conditional Use Permit.
19.98.060 Implementation Standards and Conditions.
19.98.070 Oil and Gas Conformity Review and Approval – Required.
19.98.080 Oil and Gas Conformity Review - Application Contents (Tier 1).
19.98.085 Oil and Gas Conformity Review and Conditional Use Permit - Application Contents (Tiers 2-5).
19.98.090 Oil and Gas Conformity Review - With Required Surface Owner Signature.
19.98.100 Oil and Gas Conformity Review - Without Required Surface Owner Signature.
19.98.110 Minor Activity Review - Application Contents.
19.98.120 Minor Activity Review.
19.98.130 Self-Certification.
19.98.140 Inspection Compliance.
19.98.145 Idle Wells.
19.98.150 Plugged and Abandoned.
19.98.160 Permit Revocation and Modification.

19.98.010 Purpose and Application.

The purpose of this chapter is to promote the economic and streamlined recovery of oil, gas, and other hydrocarbon substances in a manner compatible with surrounding land uses and protection of the public health and safety by establishing reasonable limitations, safeguards, and controls on exploration, drilling, and production of hydrocarbon resources. The procedures and standards contained in this chapter shall apply to all exploration drilling and production activities related to oil, gas, and other hydrocarbon substances carried out within the unincorporated San Joaquin Valley portion of Kern County (See Figure 19.98.015). This effective date of this version of Chapter 19.98 is December 9, 2015.

19.98.020 Definitions of Oil and Gas Production Activities.

Oil and Gas exploration and operations contain many highly technical activities. For the purposes of this Chapter 19.98, definitions of activities are located throughout the Chapter, were applicable. Unless otherwise indicated in this Chapter, the definitions in Chapter 19.04 remain applicable.

19.98.030 Oil and Gas Production Boundary Area and Tier Areas.

Oil and Gas production in Kern County occurs within the portion of Kern County depicted in Figure 19.98.015. This Oil and Gas Activities Boundary Area is divided into five (5) Tier Areas and depicted in Figure 19.98.015. Changes to the Oil and Gas Production Boundary Area and Tier boundaries of Figure 19.98.015 shall be through the procedures in Chapter 19.112.

The Tier Areas were designated based on the following land use planning considerations:

A. Tier 1 Area is defined as all areas in which oil and gas activity is the primary land use. The existing well and activity densities preclude almost all other uses except for passive uses such as grazing.

B. Tier 2 Area is defined as all areas that are classified Exclusive Agriculture (A) or Limited Agriculture (A-1) Districts, have agriculture as the primary surface land use, and are not included in Tier 1.

C. Tier 3 Area is defined as other areas not within a Tier 1 Area that are located in one of the following zone districts:

- Natural Resource (NR)
- Recreation Forestry (RF)
- Light Industrial (M-1)
- Medium Industrial (M-2)
- Heavy Industrial (M-3)
- Floodplain Primary (FPP)
- Drilling Island (DI)
- Zone Districts that have the Petroleum Extraction (PE) Combining District

D. Tier 4 Area is defined as areas not within Tier 1, 2, or 3, that include at least one of the following zone districts:

- Estate (E)
- Low–Density Residential (R-1)
- Medium-Density Residential (R-2)
- High-Density Residential (R-3)
- Commercial Office (CO)
- Neighborhood Commercial (C-1)
- General Commercial (C-2)
- Highway Commercial (CH)
- Open Space (OS)
- Platted Lands (PL)
- Mobilehome Park (MP)

Authorized oil and gas activities in Tier 4 are subject to approval of a conditional use permit in accordance with 19.104 of this Title.

E. Tier 5 are areas including all current and future Specific Plan boundaries either adopted with a Special Planning (SP) District or which include specific provisions for oil and gas operations. Oil or gas exploration and production activities would be allowed with a conditional use permit or as permitted by the regulations contained within the adopted Specific Plan in Tier 5 areas.

F. All other areas not defined as Tier 1-5 Areas within the Oil and Gas Production Area are considered Non-Jurisdictional because they are not within the jurisdiction of Kern County. Including land owned by the United States, State of California or land within an incorporated city are exempt, unless under the authority of a written agreement with the Board of Supervisors. The regulations set forth in this chapter pertain only to accessory structures, facilities or uses that are physically connected to, provide access or services to, or otherwise support, oil and gas activities in these Non-Jurisdictional Areas.

19.98.040 Oil and Gas Activities By Ministerial Permit.

A. No well for use as an injection well and no well for the exploration for or development or production of oil or gas or other hydrocarbon substances may be drilled,

and no related accessory equipment, structure, or facility may be installed in any Tier 1, 2, and 3 Areas until an application for Oil and Gas Conformity Review or Minor Activity Review has been submitted to and approved by the Planning Director as consistent with the standards set out in Section 19.98.060 of this chapter and in accordance with the procedures set out in Sections 19.98.070 through 19.98.120 of this chapter. No such well may be drilled, or related accessory equipment, structure, or facility installed, in a Tier 5 Area unless the Specific Plan procedures for authorizing such activities have been completed, or if no such procedures are included in a Specific Plan unless the Oil and Gas Conformity Review or Minor Activity Review has been submitted and approved consistent with the procedures applicable to Tier 1, 2 and 3 areas.

B. Disposal of nonhazardous oilfield fluid waste and production water is considered an accessory facility only if the facility complies with the following:

1. The nonhazardous oilfield fluid waste or production water is produced and disposed of within the same designated oilfield; or

2. The nonhazardous oilfield fluid waste or production water disposed of outside the designated oilfield of origin is produced by and disposed of solely and only by the same individual, corporation, or entity or by reciprocal agreement among oil and gas operators in Kern County.

C. The provisions of this Section apply to the first three thousand six hundred and forty seven (3,647) new well permits issued each calendar year, within the Oil and Gas Production Boundary Area. Any new well permits beyond three thousand six hundred and forty seven (3,647) applied for in a calendar year would be subject to a conditional use permit.

19.98.050 Oil and Gas Activities By Conditional Use Permit.

A. In Tier 4, no well for use as an injection well and no well for the exploration for or development or production of oil, gas, or other hydrocarbon substances may be drilled, and no related accessory equipment, structure, facility or use may be installed in any zoning district described in this title in which such uses are permitted as conditional uses, or on land owned by the State of California subject to provisions of 19.98.030, until an application for a conditional use permit, which includes the information specified in Section 19.98.080, has been submitted to and approved by the Planning Commission as consistent with the standards set out in Section 19.98.060 of this chapter and in accordance with the standards and procedures set out in Sections 19.102.130 through 19.102.180 and Chapter 19.98 of this title. In approving a conditional use permit, the Planning Commission may waive any condition set out in Section 19.98.060 of this chapter if it determines that such waiver will not result in material detriment to the public welfare or the property of other persons located in the vicinity, based on findings of fact and compliance with the California Environmental Quality Act.

B. No well for use as an injection well and no well for the exploration for or development or production of oil, gas, or other hydrocarbon substances may be drilled, and no related accessory equipment, structure, or facility, outside the boundaries as defined in Figure 19.98.015, may be installed in any zoning district described in this title in which such uses are permitted, or on land owned by the State of California subject to provisions of 19.98.030, until an application for a conditional use permit, which includes the information specified in Section 19.98.080, has been submitted to and approved by the Planning Commission as consistent with the standards set out in Section 19.98.060 of this chapter and in accordance with the standards and procedures set out in

Sections 19.102.130 through 19.102.180 and Chapter 19.98 of this title. In approving a conditional use permit, the Planning Commission may waive any condition set out in Section 19.98.060 of this chapter if it determines that such waiver will not result in material detriment to the public welfare or the property of other persons located in the vicinity, based on findings of fact and compliance with the California Environmental Quality Act.

C. Should any activity requiring approval of an Oil and Gas Conformity Review or Minor Activity Review pursuant to Sections 19.98.070 through 19.98.120 of this chapter, not be able to comply with the Implementation Standards and Conditions set forth in Section 19.98.060, an application for a conditional use permit, which includes the information specified in Section 19.98.080, shall be submitted to and approved by the Planning Commission in accordance with the standards and procedures set out in Sections 19.102.130 through 19.102.180 and Chapter 19.98 of this title. In approving a conditional use permit, the Planning Commission may waive/modify any condition set out in Section 19.98.060 of this chapter if it determines that such waiver or modification will not result in material detriment to the public welfare or the property of other persons located in the vicinity, based on findings of fact and compliance with the California Environmental Quality Act.

D. If a well is not completed upon land subject to a conditional use permit issued pursuant to this chapter and Chapter 19.104 of this title within twelve (12) months from the date of issuance of the permit, or within any approved period thereof, the conditional use permit shall expire and the premises shall be restored as nearly as practicable to their original condition. No permit shall expire while the permittee is continuously conducting drilling, redrilling, completing or abandoning activities, or related operations, in a well on the lands covered by such permit, which activities were commenced while said permit was otherwise in effect. Continuous activities are those suspended for not more than ninety (90) consecutive days. If, at the expiration of the twelve- (12-) month period, the permittee has not completed his drilling program on the lands covered by such permit, the decision making authority, upon a written request of the permittee, may extend the permit for the additional time requested by permittee for the completion of such drilling, in accordance with the standards and procedures set out in Sections 19.102.130 through 19.102.180.

E. The following accessory uses shall require a Conditional Use Permit:

1. Cogeneration facility
2. Landfills.

19.98.060 Implementation Standards and Conditions.

Pursuant to this chapter, all activities for the exploration for or development or production of oil, gas, and other hydrocarbon substances and related accessory buildings, structures, facilities, and activities shall comply with the following standards, unless otherwise provided in this chapter:

A. No oil or gas well shall be drilled within:

1. One hundred (100) feet of any public Major or Secondary highway or building not necessary to the operation of the well;

2. Two hundred and ten (210) feet of any sensitive receptor (single or multi-family dwelling unit, place of public assembly, institution, school or hospital); or

3. One hundred (100) feet of any building utilized for commercial purposes, not used for oil and gas operations.

B. All drilling and production activities shall conform to all applicable fire and safety regulations. Firefighting apparatus and supplies required by the Kern County Fire Department shall be maintained on the site at all times during drilling and production operations.

C. All required federal, State, and County rules and regulations shall be complied with at all times, including, but not limited to, the rules and regulations of the following agencies:

1. California Division of Oil, Gas and Geothermal Resources
2. Kern County Fire Department
3. Kern County Public Health Department
4. Regional Water Quality Control Board
5. San Joaquin Valley Air Pollution Control District
6. Kern County Public Works Department
7. California Department of Fish and Wildlife
8. United States Bureau of Land Management
9. United States Fish and Wildlife Service
10. United States Environmental Protection Agency.

D. The applicant shall demonstrate compliance with all applicable Mitigation Measures as listed in the approved Mitigation Monitoring and Reporting Program (MMRP) for the Revisions to the Zoning Ordinance (C) - 2015.

19.98.070 Oil and Gas Conformity Review and Approval - Required.

In Tiers 1, 2, 3, and 5, except as provided in this section, no permitted use shall be established, no permitted development shall occur, and no building permit or grading permit shall be issued for any permitted use or development subject to this chapter until an Oil and Gas Conformity Review or Minor Activities Review has been submitted to and approved by the Planning Director in accordance with the procedures set out in Sections 19.102.040 through 19.102.060 of this title.

Oil and Gas Conformity Review and Minor Activities Review

Activity	Conformity Review	Minor Activity Review	No Permit Required
Drilling & Completion			
Exploration or Production Well (including cyclic steam production well) A well drilled for exploration to produce oil and or natural gas	✓		
Reworked Well	✓		
Injection Well A U.S. Environmental Protection Agency class 2 injection well into which fluids are injected rather than produced with the primary objective typically is to maintain reservoir	✓		

Activity	Conformity Review	Minor Activity Review	No Permit Required
pressure, conduct EOR operations or dispose of produced water or gas, including: steamflood, waterflood or gas injection			
Observation Well A well for the purpose of observing parameters such as temperature, fluid levels and pressure changes	✓		
SB4-Regulated Activities An activity regulated under California Senate Bill 4 (SB4) designed to enhance oil and or gas production or recovery. SB4 activities do not include activities such as steam flooding, water flooding, cyclic steaming, routine well cleanout, well maintenance or removal of formation damage due to drilling, chemical treatments that do not meet the requirements in 584, bottom hole pressure surveys, or routine activity Sidetracking, Deepening, activities that do not affect the integrity of the well of the formation	✓		
Drilling Pit or Sump A drilling pit or sump that requires a permit from the Central Valley Water Quality Control Board	✓		
Sidetrack Change in well type, perforate new or existing perforations in casing, run or remove or cement liners, place or drill out any plug (cement, sand, mechanical): essentially, any operation that permanently alters the casing of a well	✓		
Deepening To deepen or permanently alter the casing in a well. Altering includes actions that require a DOGGR permit	✓		

Exploration and Development			
Geophysical Survey or Drilling by Scientific Means Tests conducted to determine the extent of and presence of oil and natural gas reserves and whether the resources for development	✓ *	✓	
Well Pad Preparation Construction activity consisting of clearing and grading of a new surface disturbance to accommodate the well and drilling activity or ancillary facilities that may be required for oil and gas drilling and operations	✓ *	✓	
Access Road Construction New surface disturbance that occur during the construction of a new road or expansion that includes new surface disturbance	✓ *	✓	
Electric Distribution Line Applies to new surface disturbance that occur during the construction of an electrical distribution line or expansion that includes new surface disturbance	✓ *	✓	
Pipeline Applies to new surface disturbance that occur during the construction of a pipeline or expansion that includes new surface disturbance	✓ *	✓	
Production Operations			
Well Operations and Maintenance Not Requiring a DOGGR permit			✓
Geophysical Monitoring			✓
Oil/Gas Treatment	✓ *	✓	
Produced Water Treatment	✓ *	✓	
Well Testing			✓
Pipelines	✓ *	✓	
Electric Lines	✓ *	✓	
Wastewater Treatment and Injection Disposal	✓ *	✓	
Wastewater Treatment and Surface Disposal	✓ *	✓	
Waste Treatment and Disposal	✓ *	✓	

Access Road	✓ *	✓	
Vegetation			✓
Reactivation of Idle Wells	✓ *	✓	
Support Facilities			
Administrative Building or Support Facility Building	✓ *	✓	
Steam Generator Boilers that generate steam for oil and gas field production purposes	✓ *	✓	
Flare A gas combustion device used primarily for burning off raw, waste, or unusable flammable gas that cannot be effectively commercialized	✓ *	✓	
Electric Lines Overhead or buried electrical distribution lines used for oil and gas field operations	✓ *	✓	
Electric Substations Electric substations used for oil and gas field operations	✓ *	✓	
Pipelines Pipelines that part of an oil and gas field operation	✓ *	✓	
Tanks Tanks used for oil field operations	✓ *	✓	
Oil/Water Treatment Oil/ water treatment equipment used in oil and gas operations	✓ *	✓	
Produced Water Treatment Equipment used to treat produced water in an oil and gas operation	✓ *	✓	
Produced Water Percolation Pond/Sump Produced water percolation and or evaporation ponds permitted by the Central Valley Regional Water Quality Control Board and used during oil and gas field operations	✓ *	✓	
Emergency Pit, Sump or Secondary Containment	✓ *	✓	
Fencing Fencing used to protect and prevent unauthorized individuals from coming			✓

into contact with oil and gas equipment and to prevent trespassing			
Well Abandonment A DOGGR process to plug and abandon a well used for oil and or gas activities including production, observation, and injection			✓
Revegetation The processes taken to establish vegetation at an oil and gas operation			✓
Short Term Employee Housing Short Term Employee Housing Temporary housing for individuals involved in oil and gas operations that require onsite 24 hour 7 day a week oversight	✓ *	✓	
Pre-Ordinance Activities that Cause New Ground Disturbance and/or Subject to the Emission Reduction Agreement	✓ *	✓	
Note: * - Ongoing operations of existing wells, facilities and equipment, including minor modifications such as new interconnections between such facilities, does not trigger conformity review or minor activity review. When these accessory uses, equipment and facilities are proposed as part of the same project as an activity that requires an Oil and Gas Conformity Review, then these accessory activities are required to be included in the Oil and Gas Conformity Review. In all other circumstances, where new ground disturbance occurs, these accessory activities are subject to Minor Activity Review.			

19.98.080 Oil and Gas Conformity Review - Application Contents (Tier 1).

Applications for an Oil and Gas Conformity Review within Tier 1 Areas, pursuant to Section 19.98.040 of this chapter shall include the following:

A. Name, telephone number and address of the applicant.

B. Name(s), telephone number(s) and address(es) of the surface property owner(s), mineral owner(s), oil and gas operator (if different than the applicant).

C. Assessor's parcel number(s) of all parcels located within the boundaries of the proposed operation, including accessory equipment, structures, and/or facilities. Latitude/Longitude coordinates for all existing and proposed wells.

D. Description of the project area, including total site acreage, accessory equipment, structures, and/or facilities.

E. A site plan drawn to scale, sufficient in size to show all necessary details, no larger than 11x17, with multiple sheets (if necessary), which includes the following information:

1. Project boundary lines and dimensions, including lease lines and property lines.

2. Location and coordinates of all proposed well holes and related accessory equipment. Location of all roadways, pipelines, tanks, treatment or other

structures and facilities to be installed. Distance from proposed well holes to section/midsection lines, located within ½ mile.

3. Location of all existing dwellings and structures, located within fifteen hundred and fifty (1,550) feet for all wells proposed to be drilled less than ten thousand (10,000) feet in depth or located within three thousand two hundred and seventy (3,270) feet, for all wells proposed to be drilled greater than ten thousand (10,000) feet in depth, of the proposed well holes. Identification of the use of each structure, and distances between well holes and existing buildings shall be noted. Location of existing property lines and distance from well site to property line.

4. Location of all new flare gas production lines, lines for production, electrical lines, and location of tank farms to be used.

5. North arrow, date the site plan was prepared, and scale.

6. Location of all accessory/ancillary facilities (including trucking parking, onsite storage, etc.) to be installed with the proposed wells.

7. California Division of Oil, Gas and Geothermal Resources permit application number, if available.

8. Identify the proposed source of water (domestic or production), if applicable.

9. Show location of all proposed underground pipelines.

10. Location of any existing Oil and Gas Conformity Review boundaries within and/or contiguous to the proposed boundary, including total site acreage and identification of Tier Area.

11. Written documentation in sufficient detail to allow the County to determine that all conditions required in Section 19.98.060 will be complied with, including all applicable mitigation measures as listed in the approved Mitigation Monitoring and Reporting Program for the Revisions to the Zoning Ordinance (C) – 2015.

12. Evidence that notice was provided to Land/Surface Owners as required by Section 19.98.080.

F. Notification Requirements

1. A physical letter of notification of application that requires a signature for delivery shall be sent by the applicant to all Land/Surface Owners of the property for which the Conformity Review is being requested, if the Land/Surface Owners are different from the mineral owners. The notice shall include all information required by State law. The letter of notification package shall include a copy of proposed site plan, including an official County handout explaining the conformity review process. The package shall be sent 30 days before submittal of the application. The application shall include evidence that the letter was sent and the signatures received. Any application for which the Land/Surface Owner letter is returned for failure to obtain a signature, the Applicant shall provide evidence that the Land/Surface Owner of the property cannot be located through normal means such as tax records. A dated letter of authorization, with specific Assessor Parcel Numbers and the period of time applicable, from the Land/Surface Owner addressed to the County of Kern may be submitted asking that the notification be waived as allowed by State law. In site locations where mineral rights are owned by the United States Government and the surface is privately owned, the application package shall include confirmation that the proposed site plan has been submitted to the United States Bureau of Land Management.

2. A second letter shall be sent, by the applicant, when the application is submitted to the County. A dated letter of authorization, with specific Assessor Parcel Numbers and the period of time applicable, from the Land/Surface Owner, addressed to the County of Kern, may be submitted asking that the notification of application submitted be waived.

3. Access of the surface for purposes of conducting pre-application activities, such as surveys, shall be subject to any existing agreement between the Mineral Owner and the Land/Surface Owner, and State regulations. Such access is not subject to the notification requirements set forth in this title.

19.98.085 Oil and Gas Conformity Review and Conditional Use Permit - Application Contents (Tiers 2-5).

Applications for an Oil and Gas Conformity Review within Tiers 2, 3, or Tier 5 Areas, pursuant to Section 19.98.040 of this chapter, or for a conditional use permit, for oil and gas activities within a Tier 4 Area, pursuant to Section 19.98.050 of this chapter, shall include the following:

A. Name, telephone number and address of the applicant.

B. Name(s), telephone number(s) and address(es) of the surface property owner(s), mineral owner(s), oil and gas operator (if different than the applicant).

C. Assessor's parcel number(s) of all parcels located within the boundaries of the proposed operation, including accessory equipment, structures, and/or facilities. Latitude/Longitude coordinates for all existing and proposed wells.

D. Preliminary Title Report, not over ninety (90) days old. A Guarantee of Title may be submitted for parcels with a Preliminary Title Report on file, over (90) days old.

E. Legal description of the project area, including total site acreage, located within the boundaries of the proposed operation, including accessory equipment, structures, and/or facilities in aliquot format, unless a more precise legal description is determined to be needed by the Planning Director.

F. A site plan drawn to scale, sufficient in size to show all necessary details, no larger than 11x17, with multiple sheets (if necessary), which includes the following information:

1. Topography and proposed grading of the site plan.

2. Project boundary lines and dimensions, including lease lines and property lines.

3. Location and coordinates of all proposed well holes and related accessory equipment. Location of all roadways (access roads), any proposed landscaping, pipelines, tanks, treatment or other structures and facilities to be installed, and any existing or abandoned wells if such are known to exist.

4. Location of all existing dwellings and structures, located within fifteen hundred and fifty (1,550) feet for all wells proposed to be drilled less than ten thousand (10,000) feet in depth or located within three thousand two hundred and seventy (3,270) feet in depth, for all wells proposed to be drilled greater than ten thousand (10,000) feet, of the proposed well holes. Identification of the use of each structure, and distances between well holes and existing buildings shall be noted. Location of existing property lines and distance from well site to property line.

5. Location of all new flare gas production lines, lines for production, electrical lines, and location of tank farms to be used.

6. North arrow, date the site plan was prepared, and scale.

7. Location of all recorded easements onsite, roads, section/midsection lines, located within ½ mile of the proposed wells.

8. Location of all accessory/ancillary facilities (including trucking parking, onsite storage, etc.) to be installed with the proposed wells. Location of planned ground disturbance on irrigated or prime agricultural land.

9. Description of project boundary in relation to Tier areas as defined in Figure 19.98.015.

10. California Division of Oil, Gas and Geothermal Resources permit application number, if available.

11. Identify the location of the 100-year floodplain, if applicable.

12. Identify the proposed source of water (domestic or production), if applicable.

13. Show location of all new proposed underground pipelines.

14. Location of any existing Oil and Gas Conformity Review boundaries within and/or contiguous to the proposed boundary.

15. Written documentation in sufficient detail to allow the County to determine that all conditions required in Section 19.98.060 will be complied with, including all applicable mitigation measures as listed in the approved Mitigation Monitoring and Reporting Program for the Revisions to the Zoning Ordinance (C) – 2015.

16. Evidence that notice was provided to Land/Surface Owners as required by Section 19.98.085 H.

G. Signature Block and Statement (Land/Surface Owner, Mineral Owner and Operator).

The following statement shall be included ~~to~~on the first page of the site plan. The statement shall be signed by all parties, irrespective of ownership relationship. Multiple lines may be added for multiple ownership signatures. A dated letter of authorization, with specific Assessor Parcel Numbers, from the Land/Surface Owner addressed to the County of Kern may be submitted asking that the signature on the site plan be waived.

REQUIRED STATEMENT

The undersigned Land/Surface Owner is the owner of APN#_____. The undersigned is the Mineral Owner and/or Operator or Lessee of the Mineral Owner. The Land/Surface Owner and the Mineral Owner and/or the Operator or Lessee have come to an agreement regarding the use of the surface of the property in connection with the Kern County permit that is being issued with this site plan.

Land/Surface Owner:	Mineral Owner:	Operator:
_____	_____	_____
Print Name	Print Name	Print Name
_____	_____	_____
Title/Company	Title/Company	Title/Company
_____	_____	_____
Signature	Signature	Signature
_____	_____	_____

Date Date Date

H. Notification Requirements – Tier 2, 3, 4 and 5 Areas.

1. A physical letter of notification of application that requires a signature for delivery shall be sent by the applicant to all Land/Surface Owners of the property for which the Conformity Review is being requested, if the Land/Surface Owners are different from the mineral owners. The notice shall include all information required by State law. The letter of notification package shall include a copy of proposed site plan, an invitation to the Land/Surface Owner(s) offering a meeting with the Mineral Owner or Operator, and including an official County handout explaining the conformity review process. The package shall be sent 30 days before submittal of the application. The application shall include evidence that the letter was sent and the signatures received. Any application for which the Land/Surface Owner letter is returned for failure to obtain a signature, the Applicant shall provide evidence that the Land/Surface Owner of the property cannot be located through normal means such as tax records. A dated letter of authorization, with specific Assessor Parcel Numbers and the period of time applicable, from the Land/Surface Owner addressed to the County of Kern may be submitted asking that the notification be waived as allowed by State law. In site locations where mineral rights are owned by the United States Government and the surface is privately owned, the application package shall include confirmation that the proposed site plan has been submitted to the United States Bureau of Land Management.

2. Access of the surface for purposes of conducting pre-application activities, such as surveys, shall be subject to any existing agreement between the Mineral Owner and the Land/Surface Owner, and State regulations. Such access is not subject to the notification requirements set forth in this title. On split estates, it is the intent of the County that the decisions generated by this Ordinance only apply to the mineral estate. No decisions generated by this Ordinance shall change the existing rights or authority of the private surface owners to full use and enjoyment of their property under laws and regulations in effect prior to the effective date of this Ordinance, or change the existing rights or authority of the mineral owner to pursue mineral exploration and production except to require compliance with this Ordinance. The right to enter split estate private surface lands to permit oil and gas operations shall be consistent with existing law or as limited by private agreement between the parties. The right to enter split estate private surface lands by individuals or entities for purposes of conducting biological and cultural resource surveys is limited to those individuals or entities under contract to, and liable to, the mineral owner/operator, and is further limited to the locations of existing or planned oil and gas activities, and such adjacent areas required by survey protocols for relevant species.

19.98.090 Oil and Gas Conformity Review - With Applicable Surface Owner Signature.

A. An applicant for a ministerial Oil and Gas Conformity Review permit pursuant to this chapter shall submit an application to the Planning Director in the format and number of copies specified by the Planning Director. The application shall contain all the information specified for the application by the applicable section of this chapter. The application shall be accompanied by the fee established by the Board of Supervisors pursuant to Section 19.06.040 of this Title. For Tier 2, 3 and 5 Areas, a copy of the

application shall be provided to the Land/Surface owner per the requirements of 19.98.085.H above. The application must contain the signature block and statement pursuant to Section 19.98.085.G, or shall contain a letter from the Land/Surface Owner waiving the need for said signature on the specified parcel of the proposed application. The waiver letter must be dated and provide specific language as to the length of time the letter is valid if to be used for future Oil and Gas Conformity Reviews.

B. The Planning Director shall inform the applicant in writing within seven (7) business days of receipt that the application is complete and shall issue the permit if he/she determines that the proposed use meets the implementation standards and conditions specified in the applicable provisions of this chapter or inform the applicant that additional information is needed to complete the application and therefore the application is deemed incomplete.

C. Within three (3) business days of reviewing the second submittal, if required, to correct any deficiencies, the Planning Director shall issue the permit if he/she determines that the proposed use meets the implementation standards and conditions specified in the applicable provisions of this chapter or inform the applicant that additional information is needed to complete the application and therefore the application is deemed incomplete.

D. Within seven (7) business days of reviewing the third submittal to correct any deficiencies, the Planning Director shall issue the permit if he/she determines that the proposed use meets the implementation standards and conditions specified in the applicable provisions of chapter. If the application remains incomplete, a mandatory in person meeting with the applicant, and any consultant processing the application on behalf of the applicant, will be required to resolve the issues preventing issuance of the permit. The in-person meeting cannot be waived, and shall be held at the Kern County Planning and Community Development Department.

E. Failure of the Planning Director to meet any deadline for application review or permit issuance as provided in this section shall not cause a permit to be deemed approved.

F. Any reviews beyond three (3), as provided above, shall require additional fees to be paid, as set forth pursuant to Section 19.06.040 of this Title, and shall be completed within thirty (30) days after the application is deemed complete.

G. Prior to conducting any drilling activity, the applicant (or operator, if acting on behalf of an applicant) must have received and have on file both the approved Permit to Conduct Well Operations from California Division of Oil, Gas and Geothermal Resources and an approved Oil and Gas Conformity Review unless the activity involves facility placement not subject to California Division of Oil, Gas and Geothermal Resources permit approval.

H. Upon issuance of this permit:

1. The County shall send a notification to the applicant, applicable responsible agencies, and the land/surface owner (if different from the mineral owner) stating a permit has been issued by the County. The approval letter shall include a stamped site plan, list of applicable conditions and mitigation measures, and a determination that the permit approval falls within the scope of the Environmental Impact Report prepared for the Revisions to the Zoning Ordinance (C) – 2015, and that other

state, regional, and local agencies are responsible agencies under the California Environmental Quality Act.

2. The applicant shall notify the Land/Surface owner of the proposed dates for access of the property to commence operations and/or to comply with mitigation measures. Such notification may take the form of multiple letters. A dated letter of authorization, with specific Assessor Parcel Numbers and the period of time applicable, from the Land/Surface Owner, addressed to the County of Kern, may be submitted asking that the notification of access be waived or has already been satisfied with a single notification letter.

I. If the development for which a permit has been approved pursuant to this article has not commenced within one (1) year of the granting of the permit, or if the permit has been unused, abandoned, discontinued, or has ceased for a period of one (1) year, the permit shall become null and void and of no effect, unless an extension has been granted by the Planning Director upon written request for an extension before the expiration of the one- (1-) year period. A copy of any expiration or extension shall be provided to the Land/Surface Owner.

19.98.100 Oil and Gas Conformity Review - Without Required Surface Owner Signature.

The provisions contained in this section apply only to applications submitted within Tier 2, 3 and 5 Areas, which do not contain the surface owner signature as required by Section 19.98.070, above:

A. An applicant for a ministerial Oil and Gas Conformity Review permit pursuant to this chapter, which does not include the Land/Surface Owner signature required pursuant to Section 19.98.085 F, shall submit an application to the Planning Director in the format and number of copies specified by the Planning Director. The application shall contain all the information specified for the application by the applicable provisions of this chapter. A copy of the application shall be provided to the Land/Surface Owner per the requirements of Section 19.98.080.F above. The application shall be accompanied by the fee established by the Board of Supervisors pursuant to Section 19.06.040 of this Title.

B. The Planning Director shall inform the applicant in writing on the thirtieth (30) calendar day of receipt that the application is complete or that additional information is needed to complete the application and therefore the application is deemed incomplete. The Planning Director shall notify the Surface/Land Owner of their option for an in-person meeting with the Department to discuss the conformity review process and answer questions regarding the site plan, to be scheduled within the thirty (30) day period stated above.

C. Second Thirty (30) Day Review Period.

1. If the application is deemed complete during the thirty (30) day period in Section 19.98.100 B, a mandatory second thirty (30) calendar day review will commence immediately following the end of the first review period.

2. If the application is found to be incomplete during the review period in Section 19.98.100 B, a subsequent thirty (30) day review period will commence at the time of submittal by the Applicant of the additional documentation.

3. The Planning Director shall notify the Surface/Land Owner of their option for an additional in-person meeting with the Department to answer questions including review of any revisions to the site plan, to be scheduled within the thirty (30) day period stated above.

4. The Planning Director shall request to schedule a mandatory in-person meeting with the Applicant to review the current site plan and discuss the conformity review process.

5. On the first business day following the 30 day review period, the Planning Director shall issue the permit if he/she determines that the proposed use meets the implementation standards and conditions specified in the applicable provisions of this chapter or inform the applicant that additional information is needed to complete the application and therefore the application is deemed incomplete.

D. All subsequent reviews, due to incomplete application submittals, shall require a mandatory thirty (30) calendar day review period. The Planning Director shall issue the permit if he/she determines that the proposed use meets the development standards and conditions specified in the applicable provisions of this chapter or inform the applicant that additional information is needed to complete the application and therefore the application is deemed incomplete. If application remains incomplete, a mandatory in-person meeting with the applicant, and any consultant processing the application will be required to resolve the issues preventing issuance of the permit. The in-person meeting cannot be waived.

E. Any reviews beyond three (3), as provided above, shall require additional fees to be paid, as set forth pursuant to Section 19.06.040 of this Title, and shall be completed within thirty (30) days after the application is deemed complete.

F. At any time during the review periods in Sections 19.98.100.A through D the applicant submits proof of the required surface owner signature on the site plan, the application will be deemed acceptable to be processed under the provisions set forth in Section 19.98.090.

G. Failure of the Planning Director to meet any deadline for application review or permit issuance as provided in this section shall not cause a permit to be deemed approved.

H. No sooner than thirty (30) calendar days from issuance of the Kern County Oil and Gas Conformity Review and any other necessary state or federal permits, the applicant may begin construction of the facility. This period shall be used to coordinate deposits and inspections pursuant to 19.98.140 (Inspection Compliance). Prior to conducting any drilling activity the operator must have received and have on file both the approved Permit to Conduct Well Operations, from California Division of Oil, Gas and Geothermal Resources and an approved Oil and Gas Conformity Review unless the activity involves facility placement not subject to California Division of Oil, Gas and Geothermal Resources permit approval.

I. Upon issuance of this permit:

1. The County shall send a notification to the Applicant, applicable responsible agencies, and the Land/Surface Owner stating a permit has been issued by the County. The approval letter shall include a stamped site plan, list of applicable conditions and mitigation measures, and a determination that the permit approval falls

within the scope of the Environmental Impact Report prepared for the Revisions to the Zoning Ordinance (C) – 2015, and that other state, regional, and local agencies are responsible agencies under the California Environmental Quality Act.

2. The Applicant shall notify the Land/Surface owner of the proposed dates for access of the property to commence operations and/or to comply with mitigation measures. Such notification may take the form of multiple letters.

J. If the development for which a permit has been approved pursuant to this article has not commenced within one (1) year of the granting of the permit, or if the permit has been unused, abandoned, discontinued, or has ceased for a period of one (1) year, the permit shall become null and void and of no effect, unless an extension has been granted by the decision-making authority upon written request for an extension before the expiration of the one- (1-) year period. A copy of any expiration or extension shall be provided to the Land/Surface Owner.

19.98.110 Minor Activity Review - Application Contents.

An application for Minor Activity Review ministerial permit for Tier 1-3 and 5 Areas, pursuant to Section 19.98.040 of this chapter, shall include the following:

A. Name, telephone number and address of the applicant.

B. Name(s), telephone number(s) and address(es) of the property owner(s), mineral owner(s), oil and gas operator (if different than the applicant).

C. Assessor's parcel number(s) of all parcels located within the boundaries of the proposed operation, including accessory equipment, structures, and/or facilities. Latitude/Longitude coordinates for all wells.

D. Preliminary Title Report, not over ninety (90) days old. A Guarantee of Title may be submitted for parcels with a Preliminary Title Report on file, over (90) days old. For all Tier 2-5 Applications only.

E. Description of proposed oil and gas activity and written documentation in sufficient detail to allow the County to determine that all conditions required in Section 19.98.060 will be complied with, including all applicable mitigation measures as listed in the approved Mitigation Monitoring and Reporting Program for the Revisions to the Zoning Ordinance (C) – 2015.

F. Sufficient number of photographs to identify the extent of existing ground disturbance.

G. For Tier 2, 3 and 5 Areas only, documentation of a letter submitted to the Land/Surface Owner(s), if different from the Mineral Owner, informing the Land/Surface owner of the Minor Activity Review application and providing a complete copy of the application, shall be mailed and received a minimum of thirty (30) days prior to application being submitted to the County for review.

19.98.120 Minor Activity Review.

A. An applicant for a Minor Activity Review ministerial permit for Tiers 1-3, and 5, pursuant to this chapter shall submit an application to the Planning Director in the format and number of copies specified. The application shall contain all the information specified for the application by the applicable section of this chapter. The application shall be accompanied by the fee established by the Board of Supervisors pursuant to Section

19.06.040 of this Title. For Tier 2, 3 and 5 Areas, a copy of the application shall be provided to the Land/Surface Owner per the requirements of Section 19.98.080.F above.

B. The Planning Director shall to inform the applicant in writing within seven (7) business days of receipt that the application is complete and shall issue the permit if he/she determines that the proposed use meets the development standards and conditions specified in the applicable provisions of this chapter or inform the applicant that additional information is needed to complete the application and therefore the application is deemed incomplete.

C. Within three (3) business days of reviewing the second submittal, if required, to correct any deficiencies, the Planning Director shall issue the permit if he/she determines that the proposed use meets the development standards and conditions specified in the applicable provisions of this chapter or inform the applicant that additional information is needed to complete the application and therefore the application is deemed incomplete.

D. Within seven (7) business days of reviewing the third submittal, if required, to correct any deficiencies, the Planning Director shall make reasonable efforts to issue the permit if he/she determines that the proposed use meets the development standards and conditions specified in the applicable provisions of Title. If additional information is needed, a mandatory in-person meeting with the applicant, and any consultant processing the application will be required to resolve the issues preventing issuance of the permit. The in-person meeting cannot be waived.

E. Failure of the Planning Director to meet any deadline for application review or permit issuance as provided in this section shall not cause a permit to be deemed approved.

F. Any reviews beyond three (3), as provided above, shall require additional fees to be paid, as set forth pursuant to Section 19.06.040 of this Title, and shall be completed within thirty (30) days after the applicant is deemed complete.

G. Prior to conducting any activity the operator must have received and have on file both approved applicable California Division of Oil, Gas and Geothermal Resources permit(s), if necessary, and an approved Minor Activity Review pursuant to the chapter.

H. Upon issuance of this permit, the County shall send a notification to the applicable responsible agencies stating a permit has been issued by the County and that the agency has certain requirements under the California Environmental Quality Act as a responsible agency.

I. If the development for which a permit has been approved pursuant to this article has not commenced within one (1) year of the granting of the permit, or if the permit has been unused, abandoned, discontinued, or has ceased for a period of one (1) year, the permit shall become null and void and of no effect, unless an extension has been granted by the decision-making authority upon written request for an extension before the expiration of the one- (1-) year period. A copy of any expiration or extension shall be provided to the Land/Surface Owner.

19.98.130 Self-Certification.

Upon issuance of Oil and Gas Conformity Review or Minor Activity, as specified in Sections 19.98.090 and 19.98.120 of this chapter, and any other necessary state or Federal permits, the applicant may begin construction of the facility. The provisions of this section do not apply to issuance of an Oil and Gas Conformity Review pursuant to 19.98.100 (Oil and Gas Conformity Review - Without Required Surface Owner Signature) of this chapter. The applicant must self-certify compliance with Chapter 19.98 during the construction and operation process. Once the project applicant has completed the construction of the oil and gas facilities, as indicated on the approved site plan, the project applicant will provide a self-certified statement, in writing, to the County, in a format specified by the Director.

During construction and continued operations of the activities specified by the approved site plan, the applicant will be responsible for complying with the issued Oil and Gas Conformity Review, and all applicable implementation standards as outlined in this chapter. Should a violation of a permit issued under this chapter occur on-site, a Certification and Finalization process for the Oil and Gas Conformity Review will be conducted by the County Oil and Gas Inspector, and self-certification for the permit will no longer be permitted for the applicant for the next issued permit, as a probationary period. Once the applicant has demonstrated compliance on the following permit, any subsequent permit may be self-certified.

19.98.140 Inspection Compliance.

Upon receipt of an issued permit pursuant to Section 19.98.100 (Oil And Gas Conformity Review - Without Required Surface Owner Signature), the applicant must contact the Planning and Community Development Department and the Public Works Department to pay pursuant to Section 19.06.040 of this title and provide a signed Cost Recovery Agreement, and schedule an inspector to be present during all activities related to the Oil and Gas Conformity Review. The County inspector or third-party building inspector retained by the County shall confirm compliance with all requirements of this Title and Mitigation Measures, and other federal and State laws. All compliance verification costs shall be incurred by the applicant, including any costs for requested onsite inspections by environmental resource experts to confirm or resolve compliance issues. During construction for all activities specified by the approved site plan, a building inspector will be present on the site to monitor and enforce the applicant's compliance with the issued Oil and Gas Conformity Review, and all applicable standards and conditions as outlined in the permit. The applicant may submit a request along with a surveillance plan, as long as there is no residence on the property, unless the surface owner agrees to the plan, for consideration by the Planning Director, after evidence it has been sent to the surface owner to allow for comments to the Department during consideration. The Plan shall outline the use of onsite cameras with real-time surveillance or 24-hour a day taped or other surveillance methods approved by the Planning Director, in conjunction with review and/or onsite inspections by the County Inspector or third-party inspector retained by the County. Throughout operations of the activities specified by the approved site plan, the applicant shall comply with the issued Oil and Gas Conformity Review, and all applicable standards and conditions as outlined in the permit.

19.98.145 Idle Wells.

A. An operator shall file a notification with the County, and with the Surface/Land Owner (if different from the Mineral Owner) of any Idle or Long Term Idle Well, within 30 days of changing the well status in Tier 2 through 5.

B. For purposes of this section, a "Idle Well" is defined as a well that has not produced oil or natural gas, or has not been used for injection for six consecutive months of continuous operation during the last five or more years. A "Long-Term Idle Well" means any well that has not produced oil or natural gas, or has not been used for injection for six consecutive months of continuous operations during the last 10 or more years. An "active observation well" means a well being used for the sole purpose of gathering reservoir data, such as pressure or temperature in a reservoir being currently produced or injected by the operator, and the data is gathered at least once every three years. An Idle well or Long-Term Idle Well does not include an active observation well.

C. Any well operator, land owner or resident within one mile of an Idle or Long-Term Idle Well (or surface owner if different from mineral owner of the actual idle or long-term idle well subject to the notice) may file a notice with the County asking for confirmation of the status that a well is either a Idle or Long Term Idle Well, and the County shall forward this notice to the California Division of Oil, Gas and Geothermal Resources to seek information about the status of this well and the owner/permittee for the well. The County shall cooperate with the California Division of Oil, Gas and Geothermal Resources in its enforcement of regulations applicable to these wells.

D. The County shall check with the California Division of Oil, Gas and Geothermal Resources whether an applicant for an Oil and Gas Conformity Review permit or Conditional Use Permit, in Tier 2 through 5, is the subject of complaint pursuant to California Public Resources Code Section 3235 for an idle well located in Tier 2 through 5, and if so shall coordinate with the California Division of Oil, Gas and Geothermal Resources to assure that the applicant is in compliance with applicable idle well regulations for the well(s) included in the complaint(s). An applicant not in compliance with idle well regulations, as determined by official correspondence from the California Division of Oil, Gas and Geothermal Resources, shall not be eligible to receive additional Oil and Gas Conformity Review permits or conditional use permits under this Chapter until such time as the Division of Oil, Gas and Geothermal Resources has advised the County that the applicant is in compliance or has entered into a written agreement with the California Division of Oil, Gas and Geothermal Resources for achieving compliance. The County shall continue to process Oil and Gas Conformity Review permits or conditional use permits under this Chapter for an applicant until such time as the County has received the official correspondence from the Division of Oil, Gas and Geothermal Resources, making its compliance determination regarding the idle well(s) in the compliant(s).

E. The Kern County Planning and Community Development Department shall obtain, on an annual basis, a copy of the idle well list from the California Division of Oil, Gas and Geothermal Resources.

19.98.150 Plugged And Abandoned.

Any permit issued pursuant to this chapter must plug and abandon all permitted wells per the following procedures:

A. The applicant shall plug and abandon all facilities in accordance with applicable laws and regulations as administered by the California Division of Oil, Gas and Geothermal Resources.

B. Within thirty (30) days from completion of the plugged and abandoned procedures for any well constructed after the amendment of this Chapter 19.98, the applicant shall submit to the Planning and Community Development Department a letter stating which facilities have been abandoned, including the unique well identification number for each well. Compliance of this requirement shall include written confirmation from California Division of Oil, Gas and Geothermal Resources.

19.98.160 Permit Revocation and Modification.

Any permit issued pursuant to this chapter may be revoked or modified pursuant to Section 19.102.020 of this Title.

Section 24. Section 19.102.040 of Chapter 19.102, Title 19 of the Ordinance Code of the County of Kern is amended to read as follows:

19.102.040 General Requirements - Permit Types.

The ministerial permits specified in this title for review pursuant to this article shall be issued by the Planning Director upon submission of an application containing the information specified in applicable sections of this title and a determination by the Planning Director that the proposed use or development meets the development standards and conditions specified in the applicable section or sections of this title. These permits include:

A. CRV recycling center permit (Section 19.08.480)

B. Temporary animal permit plot plan review (Sections 19.14.130 and 19.60.130 through 19.60.160)

C. Extensions for temporary mobilehomes and recreational vehicles (Sections 19.16.130 and 19.18.160)

D. Mobilehome park plot plan review (Sections 19.26.130 through 19.26.190)

E. Minor plan modifications (Section 19.52.130 through 19.52.180, 19.56.130 through 19.52.180, 19.56.130 through 19.56.200, 19.58.130 through 19.58.180, and 19.100.050

F. Commercial wind farm plot plan review (Section 19.64.130 through 19.64.150)

G. Geologic hazard plot plan review (Section 19.68.130 through 19.68.150)

H. Special development standards plot plan review (Sections 19.80.040 through 19.80.070)

I. Off-street parking plot plan review not in conjunction with a ministerial permit (Sections 19.82.100 through 19.82.130)

J. Landscaping plot plan review not in conjunction with a ministerial permit (Sections 19.86.070 through 19.86.100)

K. Density bonus permit (Sections 19.92.030 through 19.92.060)

L. Home occupation permit (Sections 19.94.050 through 19.94.080)

M. Production water injection wells for the purpose of disposing of production wastewater produced in the same oilfield in which the injection well is located (Section 19.98.030)

N. Oil and Gas Conformity Review and Minor Activity Review (Section 19.98.070 through 19.98.120)

O. Large family day-care permit - no hearing (Sections 19.96.030 through 19.96.060)

P. Temporary batch plant (thirty (30) days or less) plot plan review (Section 19.08.290)

Q. Secondary residential unit plot plan review (Section 19.90.040 through 19.90.060)

R. Truck parking as accessory to residential use permit (Section 19.08.252).

Section 25. Section 19.108.040 of Chapter 19.108, Title 19 of the Ordinance Code of the County of Kern is amended to read as follows:

19.108.040 Nonconforming Uses of Land.

A. A nonconforming use of land shall not be expanded, extended, or intensified in any way with respect to scope, duration, or frequency of the use, except as follows:

The Planning Commission may authorize the expansion or intensification of legal, nonconforming uses if, after consideration at a public hearing noticed pursuant to Section 19.102.150, both of the following findings can be made:

1. The proposed expansion will not create any significant adverse impacts to surrounding properties.

2. The only other remedy to bring the use into conformance would require an amendment to the applicable General Plan.

Public hearing notification shall consist of mailing notices to property owners having property within three hundred (300) feet from the exterior boundaries of the subject property. Published notice in a local newspaper shall not be required, unless the Planning Director determines that such additional notice is warranted. In consideration of a request to expand or intensify a legal, nonconforming use, the terms and conditions for any approval shall be as specified in Section 19.104.050.

B. A nonconforming use of land shall not be changed to or replaced by any other use except a use that complies with the regulations of the zoning district in which the subject property lies.

C. Any nonconforming use of land that has been discontinued or abandoned for a period of one (1) year or more shall not be reestablished. In instances where the assessed value of improvements on the property exceeds fifty thousand dollars ($50,000), as determined by the County Assessor, the nonconforming use shall not be reestablished if the use has been discontinued or abandoned for a period of two (2) years or more.

D. The exploration for or development or production of oil, gas, or other hydrocarbon substances lawfully constructed prior to MONTH, DAY, YEAR shall be considered nonconforming uses of land. Any subsequent maintenance, production, operations, well stimulation treatments, alterations or expansion, and other activities involving existing wells, including ancillary facilities, are allowed subject to Chapter 19.98 of this Title.

E. A legal nonconforming dwelling in any zone district may be replaced with the approval of the Planning Director, provided that all applicable requirements of this title, other than density or conditional use permit requirements, can be satisfied.

F. Any use of land continuously in existence for a period of twenty (20) years or more may qualify as a legal, nonconforming use pursuant to Section 19.108.080, irrespective of when zoning requirements became effective for that property, provided that the Planning Director determines that the use is not significantly incompatible with surrounding land uses and that there is no significant threat to the public health, safety, and welfare in allowing the use to continue.

Section 26. Section 19.108.060 of Chapter 19.108, Title 19 of the Ordinance Code of the County of Kern is amended to read as follows:

19.108.060 Nonconforming Setbacks.

Any use permitted under the provisions of this title that currently exists with nonconforming setbacks may:

1. Be replaced in the same location if damaged or destroyed by fire, earthquake, explosion, or act of God regardless of the cost of such reconstruction; or

2. Be maintained in accordance with the provisions of this Title provided there is no greater degree of nonconformity with regard to setback.

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CEQA Guidelines Section 15091
Findings of Fact

EXHIBIT B

FINDINGS OF FACT IN SUPPORT OF DETERMINATIONS

RELATED TO SIGNIFICANT ENVIRONMENTAL IMPACTS

State CEQA Guidelines Section 15091

For

REVISIONS TO THE KERN COUNTY ZONING ORDINANCE – 2015(C) PROJECT

California Independent Petroleum Association
Independent Oil Producers Association
Western States Petroleum Association

Final Environmental Impact Report

(SCH# 2013081079)

Lead Agency: Kern County Planning and Community Development Department

SECTION I. INTRODUCTION

The following findings of fact are based in part on the information contained in the Draft and Final Environmental Impact Report (EIR) for the Revisions to the Kern County Zoning Ordinance – 2015(C) Project ("Project"), as well as additional facts found in the complete record of proceedings. The EIR is hereby incorporated by reference and is available for review at the Kern County Planning and Community Development Department, 2700 "M" Street, Suite 100, Bakersfield, California 93301, during normal business hours.

Public Resources Code section 21002 provides that "public agencies should not approve projects as proposed if there are feasible alternatives or feasible mitigation measures available which would substantially lessen the significant environmental effects of such projects[.]" The same statute provides that the procedures required by CEQA "are intended to assist public agencies in systematically identifying both the significant effects of projects and the feasible alternatives or feasible mitigation measures which will avoid or substantially lessen such significant effects." Section 21002 goes on to provide that "in the event [that] specific economic, social, or other conditions make infeasible such project alternatives or such mitigation measures, individual projects may be approved in spite of one or more significant effects thereof."

The mandate and principles announced in Public Resources Code section 21002 are implemented, in part, through the requirement that agencies must adopt findings before approving projects for which EIRs are required. For each significant environmental effect identified in an EIR for a project, the approving agency must issue a written finding reaching one or more of three permissible conclusions. The first such finding is that changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect as identified in the Final EIR. The second permissible finding is that such changes or

alterations are within the responsibility and jurisdiction of another public agency and not the agency making the finding, and such changes have been adopted by such other agency or can and should be adopted by such other agency. The third potential conclusion is that specific economic, legal, social, technological, or other considerations, including provision of employment opportunities for highly trained workers, make infeasible the mitigation measures or project alternatives identified in the Final EIR. (CEQA Guidelines, § 15091.) Public Resources Code section 21061.1 defines "feasible" to mean "capable of being accomplished in a successful manner within a reasonable period of time, taking into account economic, environmental, social, legal, and technological factors." CEQA Guidelines section 15364 adds another factor: "legal" considerations. (See also *Citizens of Goleta Valley v. Bd. of Supervisors* (1990) 52 Cal.3d 553, 565 (*Goleta II*).)

The concept of "feasibility" also encompasses the question of whether a particular alternative or mitigation measure promotes the underlying goals and objectives of a project. (*City of Del Mar v. City of San Diego* (1982) 133 Cal.App.3d 410, 417 (*City of Del Mar*); *Sierra Club v. County of Napa* (2004) 121 Cal.App.4th 1490, 1506-1509 [court upholds CEQA findings rejecting alternatives in reliance on applicant's project objectives]; see also *California Native Plant Society v. City of Santa Cruz* (2009) 177 Cal.App.4th 957, 1001 (*CNPS*) ["an alternative 'may be found infeasible on the ground it is inconsistent with the project objectives as long as the finding is supported by substantial evidence in the record'"] (quoting Kostka & Zischke, *Practice Under the Cal. Environmental Quality Act* [Cont.Ed.Bar 2d ed. 2009] (*Kostka*), § 17.39, p. 825); *In re Bay-Delta Programmatic Environmental Impact Report Coordinated Proceedings* (2008) 43 Cal.4th 1143, 1165, 1166 (*Bay-Delta*) ["[i]n the CALFED program, feasibility is strongly linked to achievement of each of the primary project objectives"; "a lead agency may structure its EIR alternative analysis around a reasonable definition of underlying purpose and need not study alternatives that cannot achieve that basic goal"].) Moreover, "'feasibility' under CEQA encompasses 'desirability' to the extent that desirability is based on a reasonable balancing of the relevant economic, environmental, social, legal, and technological factors." (*City of Del Mar*, *supra*, 133 Cal.App.3d at p. 417; see also *CNPS*, *supra*, 177 Cal.App.4th at p. 1001 ["an alternative that 'is impractical or undesirable from a policy standpoint' may be rejected as infeasible"] [quoting *Kostka*, *supra*, § 17.29, p. 824]; *San Diego Citizenry Group v. County of San Diego* (2013) 219 Cal.App.4th 1, 17.)

For purposes of these findings (including the table described below), the term "avoid" refers to the effectiveness of one or more mitigation measures to reduce an otherwise significant effect to a less than significant level. Although CEQA Guidelines section 15091 requires only that approving agencies specify that a particular significant effect is "avoid[ed] *or* substantially lessen[ed]," these findings, for purposes of clarity, in each case will specify whether the effect in question has been "avoided" (i.e., reduced to a less than significant level).

CEQA requires that the lead agency adopt mitigation measures or alternatives, where feasible, to substantially lessen or avoid significant environmental impacts that would otherwise occur. Project modification or alternatives are not required, however, where such changes are infeasible or where the responsibility for modifying the project lies with some other agency. (CEQA Guidelines, § 15091, subd. (a), (b).)

With respect to a project for which significant impacts are not avoided or substantially lessened, a public agency, after adopting proper findings, may nevertheless approve the project if the agency first adopts a statement of overriding considerations setting forth the specific reasons why the agency found that the project's "benefits" rendered "acceptable" its "unavoidable adverse environmental effects." (CEQA Guidelines, §§ 15093, 15043, subd. (b); see also Pub. Resources Code, § 21081, subd. (b).) The California Supreme Court has stated, "[t]he wisdom of approving

. . . any development project, a delicate task which requires a balancing of interests, is necessarily left to the sound discretion of the local officials and their constituents who are responsible for such decisions. The law as we interpret and apply it simply requires that those decisions be informed, and therefore balanced." (*Goleta II, supra*, 52 Cal.3d at p. 576.) The EIR for the Project concluded the Project would create any significant and unavoidable impacts; thus, a Statement of Overriding Considerations is required.

These findings constitute the County's best efforts to set forth the evidentiary and policy bases for its decision to approve the Project in a manner consistent with the requirements of CEQA. To the extent that these findings conclude that various mitigation measures outlined in the Final EIR are feasible and have not been modified, superseded or withdrawn, the County hereby binds itself to implement these measures. These findings, in other words, are not merely informational, but rather constitute a binding set of obligations that will come into effect when the County adopts a resolution approving the Project.

In addition, a Mitigation Monitoring and Reporting Program (MMRP) has been prepared for the Project, and is being approved by the Board of Supervisors by the same Resolution that has adopted these findings. The County will use the MMRP to track compliance with Project mitigation measures. The Mitigation Monitoring and Reporting Program will remain available for public review during the compliance period. The Final Mitigation Monitoring and Reporting Program is attached to and incorporated into the environmental document approval resolution and is approved in conjunction with certification of the EIR and adoption of these Findings of Fact.

SECTION II. FINDINGS REGARDING THE POTENTIAL ENVIRONMENTAL EFFECTS OF THE PROJECT

Kern County Planning and Community Development Department issued a Notice of Preparation of a Draft Environmental Impact Report on August 28, 2013. Based on the Initial Study and Notice of Preparation, a determination was made that the EIR would contain a comprehensive analysis of all environmental issues, identified in Appendix G of the California Environmental Quality Act (CEQA) Guidelines.

An Environmental Impact Report (EIR) was prepared for this project in accordance with the California Environmental Quality Act (CEQA) Guidelines. As required by CEQA, the EIR includes appropriate review, analysis, and mitigation measures for the environmental impacts of the proposed project. This Final EIR could be utilized by other permitting agencies in their capacity as Responsible and Trustee agencies under CEQA.

To initiate the EIR process, a Notice of Preparation/Initial Study (NOP/IS) (State Clearinghouse No. (2013081079) was circulated for a 30-day public review period beginning on beginning august 30, 2013 and ending on September 30, 2013. Four scoping meetings were noticed and held at the following locations and dates:

Lost Hills Recreation Building, Lost Hills Park, Hwy 46, Lost Hills, CA (September 16, 2013)

Taft Veterans Hall, Room 1, 218 Taylor Street, Taft, CA (September 18, 2013)

Kern County Board Chambers, 1st Floor Board Chambers, 1115 Truxtun Ave, Bakersfield, CA (September 23, 2013)

Shafter Veterans Building, Room 2, 309 California Avenue, Shafter CA (September 25, 2013)

EXHIBIT B

Thirty Seven (37) written comments were received in response to the circulated Notice of Preparation/Notice of Intent and were used in the preparation of the EIR. An additional ten (10) comments were received after the close of the public comment period. However, Staff included these comments in the NOP Appendix of the EIR (Appendix D).

Based on the analysis contained in the Initial Study and comments received in response to the Notice of Preparation, a Draft EIR was prepared and circulated for a public review period, beginning on July 8, 2015. During the initial review period, Staff notified all recipients of the DEIR and posted a notice on the Planning Department website that the review period was extended to September 11, 2015. In total, over 700 Notices of availability of the Draft EIR were distributed. The Draft EIR was also available on the Kern County Planning and Community Development Department's webpage, as well as the CSUB, Beale, Boron, Arvin, Baker Branch, Delano Branch, Buttonwillow Branch, California City Branch, Kernville Branch, Frazier Park Branch, Holloway/Gonzales Branch, Jackson/McFarland Branch, Kern River Valley Branch, Lamont Branch, Rathburn Branch, Mojave Branch, Northeast Branch, Shafter Branch, Ridgecrest Branch, Wanda Kirk/Rosamond Branch, Tehachapi Branch, Southwest Branch, and Taft Branch Public Libraries. On July 29, 2015, the Planning and Community Development Department extended the review period from August 24, 2015 to September 11, 2015. A Joint Planning Commission and Board of Supervisors Workshop was held on July 27, 2015. As well as two workshops in Shafter and Taft on August 10, 2015 and August 17, 2015, respectively. The workshop comments were included in Chapter 7 – Response to Comments Appendix D-1. Seventy-one (71) written comments from individuals or agencies/organizations were received on the Draft EIR during this public review period. As required by Section 15088 of the State CEQA Guidelines, responses to these comments were prepared and provided to the agencies and interested parties that submitted return addresses. The Response to Comments was provided 10 days before this hearing.

For the purposes of CEQA, and the findings herein set forth, the administrative record for the Project consists of those items listed in Public Resources Code section 21167.6, subdivision (e). The record of proceedings for the County's decision on the Project consists of the following documents, at a minimum, which are incorporated by reference and made part of the record supporting these findings:

- The NOP and all other public notices issued by the County in conjunction with the Project;
- The Draft EIR for the Project and all documents relied upon or incorporated by reference;
- All comments submitted by agencies or members of the public during the 45-day comment period on the Draft EIR;
- All comments and correspondence submitted to the County during the public comment period on the Draft EIR, in addition to all other timely comments on the Draft EIR;
- The Final EIR for the Project, including the Planning Commission staff report, minutes of the Planning Commission public hearing; Board of Supervisors staff report; minutes of the Board of Supervisors public hearing; comments received on the Draft EIR; the County's responses to those comments; technical appendices; and all documents relied upon or incorporated by reference;
- The mitigation monitoring and reporting program (MMRP) for the Project;
- All findings and resolutions adopted by the County in connection with the Project, and all documents cited or referred to therein;
- All reports, studies, memoranda, maps, staff reports, or other planning documents relating to the Project prepared by the County, consultants to the County, or responsible or trustee agencies with respect to the County's compliance with the requirements of CEQA and with respect to the County's action on the Project;

- All documents submitted to the County by other public agencies or members of the public in connection with the Project, up through the close of the public hearing;
- Any minutes and/or verbatim transcripts of all information sessions, public meetings, and public hearings held by the County in connection with the Project;
- Any documentary or other evidence submitted to the County at such information sessions, public meetings and public hearings;
- All resolutions adopted by the County regarding the Project, and all staff reports, analyses, and summaries related to the adoption of those resolutions;
- The County's General Plan and applicable Specific Plans and all updates and related environmental analyses;
- Matters of common knowledge to the County, including, but not limited to Federal, State, and local laws and regulations;
- The County's Zoning Code;
- Any documents expressly cited in these findings, in addition to those cited above; and
- Any other materials required for the record of proceedings by Public Resources Code section 21167.6, subdivision (e).

Pursuant to Guidelines section 15091(e), the administrative record of these proceedings is located and available for review at the Kern County Planning and Community Development Department, 2700 "M" Street, Suite 100, Bakersfield, California 93301, during normal business hours.. The custodian of these documents and other materials is the Kern County Planning and Community Development Department.

The County has relied on all of the documents listed above in reaching its decisions on the proposed Project even if not every document was formally presented to the Board of Supervisors or County Staff as part of the County files generated in connection with the Project. Without exception, any documents set forth above not found in the Project files fall into one of two categories. Many of them reflect prior planning or legislative decisions of which the Board of Supervisors was aware in approving the Project. (See *City of Santa Cruz v. Local Agency Formation Commission* (1978) 76 Cal.App.3d 381, 391-391; *Dominey v. Department of Personnel Administration* (1988) 205 Cal.App.3d 729, 738, fn. 6.) Other documents influenced the expert advice provided to County Staff or consultants, who then provided advice to the Planning Commission and the Board of Supervisors as final decision makers. For that reason, such documents form part of the underlying factual basis for the County's decisions relating to approval of the Project. (See Pub. Resources Code, § 21167.6, subd. (e)(10); *Browning-Ferris Industries v. City Council of City of San Jose* (1986) 181 Cal.App.3d 852, 866; *Stanislaus Audubon Society, Inc. v. County of Stanislaus* (1995) 33 Cal.App.4th 144, 153, 155.)

Based upon the evidence before it, the County finds that the Project will result in one or more "significant and unavoidable" impacts. Therefore, a statement of overriding considerations is required. In other words, the City must consider whether overriding economic, social, and other considerations outweigh the significant, unavoidable effects of the Project, because the Project simply will not create any significant unavoidable effects. The required statement of overriding considerations is included herein. Despite concluding that certain impacts would be less than significant or would have no impact, the EIR nonetheless incorporated mitigation measures to comply with the goals, policies, and implementation measures of the Kern County General Plan or other adopted regulations. The Board of Supervisors finds that these effects are less than significant or have no impact before and after implementation of these mitigation measures. With respect to all impacts identified as "less than significant" or as having "no impact" in the EIR, the Board of

Supervisors finds that those impacts have been described accurately and are less than significant or have no impact as so described in the EIR, as follows:

1. AESTHETICS

A. Environmental Effects of the Project Found to Have No Impact on the Environment, or Have a Less Than Significant Impact on the Environment.

The Project will not have a substantial adverse effect on a scenic vista (Impact 4.1-1).

The Project will not substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a State scenic highway (Impact 4.1-2).

B. Environmental Effects of the Project That Are Potentially Significant, but That Can Be Mitigated to Less Than Significant Levels.

None.

C. Environmental Effects of the Project That Cannot Be Mitigated to a Level Less Than Significant.

Significant Effect:

Without mitigation, the Project has the potential to substantially degrade the existing visual character or quality of the site and its surroundings (Impact 4.1-3).

Description of Specific Impact:

Impacts on aesthetic resources due to construction, operation, well stimulation, or decommissioning/abandonment of oil and gas development facilities would result from changes to existing views of the landscape by viewers with high visual sensitivity (i.e., people with high interest and concern for the visual quality of the landscape and changes to it, such as residents from the vicinity of their homes or people engaging in recreation or leisure activities). Aesthetic impacts may include a substantial change to the landscape character (e.g., from rural, agricultural, or natural to more developed or industrial-appearing) or reduction in scenic quality (e.g., substantially altering views of agricultural, agrarian, or natural landscapes that characterize the area or are valued by local or regional residents for their scenic quality).

While the aesthetic impacts of most single wells or associated facilities could be mitigated, the annual addition of as many as approximately 2,700 wells and the associated ancillary facilities could change the landscape in Kern County. Although most future oil and gas activities would occur in Tier 1 and Tier 2, and more than 2,000 wells could also be removed annually from these areas, there is the potential that areas that are currently primarily agricultural or open space and that have a predominantly rural or natural aesthetic character could be converted to a predominantly industrial developed character with the addition of large numbers of highly visible and noticeable construction and exploratory equipment, materials, vehicles, and construction activities including well stimulation, and decommissioning/abandonment. While less visible, visible facilities during routine operations including well pads, pumping facilities, storage tanks, access roads, and ancillary facilities could also intensify in these areas. The addition of large amounts of new industrial elements in areas where they currently do not occur or are a minor element in the landscape could substantially reduce the intactness, unity, and vividness of existing views of the landscape

throughout the Project Area. Accordingly, the overall aesthetic effects of oil and gas development for this Project could be significant.

Finding:

Although implementation of mitigation measures would reduce the adverse visual changes experienced at individual key observation point locations, there are no mitigation measures that would preserve the existing visual character and quality of the Project Area and its surroundings. Project-related oil and gas activities would continue to produce visible changes to the existing environment and the resultant visual impact is considered significant and unavoidable. All feasible and reasonable changes or alterations have been required in, or incorporated into, the Project to substantially lessen the potentially significant effects identified in the EIR.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's impacts to the existing visual character or quality of the environment. Because Project-related oil and gas activities would continue to produce visible changes to, and thus degrade, the existing environment, there are no feasible and reasonable mitigation measures that can be implemented to reduce this impact to a less than significant level. The following mitigation measures will be incorporated into the Project to lessen the impacts to visual quality to the greatest extent possible:

MM 4.1-1 The Applicant shall use existing roads to access oil production areas, or shall construct new roads (or extend existing roads) to minimize the amount of disturbance without impeding existing surface use.

MM 4.1-2 All derricks, boilers, and other drilling equipment used to drill, repair, clean out, deepen or redrill any well with oil, gas, or other hydrocarbon shall be removed from the drill site within 90 days after completion of production tests or after abandonment of any well. Earthen sumps used in drilling shall be filled within 90 days after any well has been placed in production (unless such sumps are to be used within six months for the drilling of another well), and any sump used in productions shall be filled after its abandonment and restored to a uniform grade within ninety days.

MM 4.1-3 Sumps and ponds shall be permitted only to the extent authorized by the Central Valley Regional Water Quality Control Board (via waiver, Waste Discharge Requirements, or other form of authorized written documentation) and shall comply with all applicable legal requirements and mitigation measures for sumps serving as storage, percolation or evaporation ponds for produced water.

MM 4.1-4 Except where located within agricultural land, new oil or gas tanks located within 200 feet of any sensitive receptor shall be partially screened from public view by shrubs, trees or solid screen fencing. Similarly, new pump sites (including multiple well pump sites) within 500 feet of any dwelling must be surrounded by a fence, at least 6 feet in height, constructed of dark-colored chain-link with wood or metal slates, dark green or brown fabric material, or other more visually restrictive fencing material. The height of all new pumping units shall not exceed 80 feet, and shall be painted in accordance with the Kern County Zoning Ordinance.

MM 4.1-5 Project signage is limited to directional, warning, safety, security and identification signs in connection with oil, gas, or other hydrocarbon drilling and development operations in accordance with Chapter 19.84.135 of the Kern County Zoning Ordinance. For any signage necessary for wayfinding, safety, or security, the Applicant shall use the minimum necessary to adequately communicate the required information.

Significant Effect:

Without mitigation, the Project has the potential to create a new source of substantial light or glare which will adversely affect day or nighttime view in the area (Impact 4.1-4).

Description of Specific Impact:

Impacts on aesthetic resources due to construction, operation, well stimulation, or decommissioning/abandonment of oil and gas development facilities would result from activities that create a new source of substantial light or glare that would adversely affect day or nighttime views in the vicinity of the activities. Construction activities generally occur during daytime hours, and may generate glare from construction equipment, materials, and vehicles. Operation activities and elements that are likely to create new sources of substantial light that would adversely affect nighttime views in the area include nighttime safety and security lighting of storage tank facilities and nighttime flaring of natural gas as a byproduct of production. Flaring would be intermittent and only occur for limited periods in a few locations. Operation activities or elements that are likely to create new sources of substantial glare that would adversely affect daytime views in the area include elements such as pipes, pumping units, tanks, and other facilities with polished metal surfaces or smooth or light-colored finishes. Impacts from glare would primarily result from reflectance of sunlight off of highly reflective surfaces and be dependent upon the location of the sun and orientation of the operation elements relative to viewers. Aesthetic impacts due to substantial glare during operation of oil and gas development facilities are most likely to occur in areas that have very few or no noticeable existing oil and gas or other facilities in the area.

With respect to construction impacts, in the Eastern Subarea, aesthetic impacts of creating a new source of substantial light or glare that would adversely affect day or nighttime views in the area for construction activities for oil and gas development for KOPs 1, 2 and 3 would be less than significant, however, aesthetic impacts of creating a new source of substantial light or glare that would adversely affect day or nighttime views in the area for construction activities for oil and gas development for KOPs 4 and 5 would be significant. In the Central Subarea, aesthetic impacts of creating a new source of substantial light or glare that would adversely affect day or nighttime views in the area for construction activities for oil and gas development for KOPs 7 and 8 would be significant. In the Western Subarea, aesthetic impacts of creating a new source of substantial light or glare that would adversely affect day or nighttime views in the area for construction activities for oil and gas development for KOPs 6 and 10 would be less than significant, but this impact would be significant for KOP 9.

With respect to operation impacts, in the Eastern Subarea, aesthetic impacts of creating a new source of substantial light or glare that would adversely affect day or nighttime views in the area for operation activities for oil and gas development for KOPs 1, 2, 3 and 4 would be less than significant, but could be significant for KOP 5. In the Central Subarea, aesthetic impacts of creating a new source of substantial light or glare that would adversely affect day or nighttime views in the area for operation activities for oil and gas development for KOP 7 would be less than significant, but could be significant for KOP 8. In the Western Subarea, aesthetic impacts of creating a new

source of substantial light or glare that would adversely affect day or nighttime views in the area for operation activities for oil and gas development for KOPs 6 and 10 would be less than significant, but would be significant for KOP 9 within Tier 2 lands.

Because the equipment, vehicles, and materials used for well stimulation, decommissioning and abandonment would appear similar to those used for construction and drilling, the new sources of substantial light and glare in the views from KOPs 1 through 10 would be temporary and similar to those described for construction. For these reasons, aesthetic impacts of creating a new source of substantial light or glare that would adversely affect day or nighttime views in the area for oil and gas development during well stimulation are considered similar to aesthetic impacts for construction of oil and gas development facilities.

Finding:

Without mitigation, the Project has the potential to cause the introduction of a new source of substantial light or glare, which would adversely affect day or nighttime view in the area. Although most of these impacts will be less than significant after mitigation, operation activities and elements could create new sources of substantial light that would significantly adversely affect nighttime views in the area, such as nighttime safety and security lighting of storage tank facilities and nighttime flaring of natural gas as a byproduct of production. All feasible and reasonable changes or alterations have been required in, or incorporated into, the Project that substantially lessen the potentially significant effects identified in the EIR.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the impacts to the environment caused by the introduction of a new source of substantial light or glare. The impacts to nighttime views are anticipated to be significant, and there are no feasible and reasonable mitigation measures that can be implemented to reduce these impacts to a level that is less than significant. The impacts associated with glare are anticipated to be significant; however, mitigation measures can reduce the impacts, though not to less than significant levels. The following mitigation measures will be incorporated into the Project to lessen the impacts to views of the night sky and glare to the greatest extent possible:

MM 4.1.6 Permanent nighttime lighting that will be installed for new facility operations will only be lighting required for safety or security. During operations when the lighting is in use, lighting for safety and security will be shielded and oriented downward, bare bulbs will be fully screened from view from sensitive viewing receptors such as residences, and on-demand lighting and/or timers will be used to minimize visual impacts of lighting. In doing so, the Applicant shall comply with the standards in the amended Chapter 19.81 – Outdoor Lighting "Dark Sky Ordinance."

D. Cumulative Environmental Effects of the Proposed Project That Will Have a Less Than Significant Impact on the Environment.

None.

E. Cumulative Environmental Effects of the Proposed Project That Will Have a Significant Impact on the Environment.

Significant Effect:

The Project will contribute to cumulative visual impacts with respect to degrading the existing visual character or quality of the site and its surroundings, and with respect to additional light or glare which would adversely affect day or night time views.

Description of Specific Impact:

Kern County is a growing community, and the cities within Kern County are likewise planning for continued growth. While the Project will continue to allow, with more stringent mitigation measures as well as expanded substantive and procedural Ordinance mandates, the County's 100+-year industry of oil and gas production activities, this industry does have a visible presence on the landscape and, in combination with the implementation of other reasonably foreseeable plans, will continue to result in visible changes within Kern County. Visible changes to the landscape will occur even with implementation of the mitigation measures and other goals, policies, implementation policies, and mitigation measures for these other General Plans and regional plans, and some may view these visual changes as adverse aesthetic impacts.

Accordingly, cumulative impacts to aesthetic impacts are considered significant, and the Project's incremental contribution to this cumulative impact is considered cumulatively considerable.

Finding:

The Project will combine with impacts of past, present and reasonably foreseeable projects to result in significant and unavoidable cumulative aesthetic impacts to the environment. Specifically, the Project will make a cumulatively significant contribution the introduction of a new source of substantial light or glare, which would adversely affect day or nighttime view in the area. All feasible and reasonable changes or alterations have been required in, or incorporated into, the Project that substantially lessen the potentially significant effects identified in the EIR, though not to a less than significant level. This impact is thus significant and unavoidable.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's impacts to the aesthetic character of the environment. Implementation of Mitigation Measures 4.1-1 through 4.1-6 described above, will reduce the effects of the Project on the aesthetic quality of the Project Area to the greatest extent possible. Despite these mitigation measures, however, the Project will result in significant cumulative impacts to views. There are no feasible and reasonable mitigation measures that will prevent the Project from impacting views. The Project's cumulative visual impact is considered significant and unavoidable.

2. AGRICULTURE AND FOREST RESOURCES

A. Environmental Effects of the Project Found to Have No Impact on the Environment, or Have a Less Than Significant Impact on the Environment.

The Project will not conflict with existing agricultural zoning or Williamson Act Contracts (Impact 4.2-2).

The Project will not conflict with existing zoning for, or cause rezoning of, forest land or timberland (Impact 4.2-3).

The Project will not result in the loss of forest land or conversion of forest land to non-forest use (Impact 4.2-4).

The Project will not result in the cancellation of an open space contract made pursuant to the California Land Conservation Act of 1965 or Farmland Security Zone contract for any parcel of 100 or more acres (Impact 4.2-6).

B. Environmental Effects of the Project That Are Potentially Significant, but That Can Be Mitigated to Less Than Significant Levels.

Significant Effect:

Without mitigation, the Project has the potential to convert prime farmland, unique farmland, or farmland of statewide importance to non-agricultural use (Impact 4.2-1).

Description of Specific Impact:

Oil and gas exploration and production activities that would be authorized through implementation of the proposed Project could result in land disturbance throughout the Project Area. Approximately 364,724 acres of the Core Areas are located within mapped FMMP lands, a majority of which are located within Tier 2 (93%). To provide a conservative analysis, it is assumed that all land disturbed by oil and gas activities within Tier 2 areas would be Farmlands, although, in fact, not all land within Tier 2 is in that category. Therefore, the proposed Project could result in the conversion of 298 acres of Prime Farmland, Farmland of Statewide Importance, or Unique Farmland (collectively, Farmland) annually, with 148 acres of conversion occurring in the Western Subarea, 60 acres occurring in the Central Subarea, and 90 acres in the Eastern Subarea. Given the estimated acreage of agricultural land converted annually, the projected amount of FMMP farmland that could be converted between the years 2015 and 2040 in Tier 2 is a total of 7,450 acres. This represents less than 1% of the total acreage of Farmland (828,973 acres) in Tier 2. Nonetheless, based on the importance of agricultural lands in Kern County and the San Joaquin Valley, this impact is considered significant.

Finding:

Without mitigation, the Project has the potential to convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance to non-agricultural use. These impacts will be reduced to a level that is less than significant with implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's environmental effects related to the conversion prime farmland, unique farmland, or farmland of statewide importance to non-agricultural use. The following mitigation measure will be incorporated into the Project to reduce this impact to a less than significant level:

MM 4.2-1 For new oil and gas exploration and extraction activities that are: 1) on land designated Prime, Farmland of Statewide Importance or Unique Farmland; and 2) that have been actively farmed 5 years or more out of the last 10 years, agricultural land mitigation is required at a ratio of 1:1. The 1:1 ratio is applied to actual ground disturbance area for oil and gas activities (inclusive of temporary construction and permanent operational impact areas), but excludes non-farmed existing areas such

as roads, and tank and maintenance areas, and lands for which agricultural mitigation has previously been provided at a 1:1 ratio. Prior to ground disturbing activity, the Applicant shall submit to the County written evidence of completion of one or more of the following measures to achieve this 1:1 mitigation ratio:

a. Funding and/or purchasing agricultural conservation easements or similar instrument acceptable to the County (to be managed and maintained by an appropriate entity).

b. Purchasing of credits for conservation of agricultural lands from an established agricultural farmland mitigation bank or an equivalent agricultural farmland preservation program managed by the County.

c. Restoring agricultural lands to productive use through the removal of legacy oil and gas production equipment, including well abandonment and removal of surface equipment.

d. Participating in any agricultural land mitigation program adopted by Kern County that provides equal or more effective mitigation than the measures listed above.

Mitigation lands shall meet the definition of Prime Farmland, Farmland of Statewide Importance, and/or Unique Farmland, and be of similar or higher agricultural quality as the lands, as established by the California Department of Conservation. Completion of the selected measure or, with the Kern County Planning and Community Development Director's approval, a combination of measures, are to occur on qualifying land in Kern County. If qualifying lands cannot be found in Kern County, upon written application to the County, the mitigation lands may be located within the San Joaquin Valley (San Joaquin, Stanislaus, Merced, Fresno, Madera, Kings, Tulare, or Kern County) or outside the San Joaquin Valley with written evidence that the same or equivalent crops can be produced on the mitigation land. Mitigation consisting of removal of legacy equipment within active agricultural fields shall not require recordation of an agricultural conservation easement or conservation easement. Available mitigation funding shall be prioritized for acquisition of large blocks of agricultural land for preservation, and removal of legacy equipment, to minimize and mitigate fragmentation and edge impacts.

Significant Effect:

Without mitigation, the Project has the potential to involve other changes in the existing environment which, because of their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use (Impact 4.2-5)

Description of Specific Impact:

Although Kern County Zoning considers oil and gas and agriculture as compatible land uses, certain agricultural practices and portions of the oil and gas production cycle, if conducted in close proximity, would not be compatible and would have direct impacts. Fragmentation of farmland into smaller field sizes could make it difficult for farmers to operate certain types of equipment that are necessary to their planting, production, and harvest operations, or to viably produce certain types

of crops. Oil and gas development within agricultural lands could also disrupt irrigation or field drainage systems (see Figure 4.2-3). Truck traffic could generate dust which could harm the photosynthetic processes of plants and potentially cause localized damage to fruit, vegetables, and greens. Row crops could most readily be adjusted to farm plot size and configuration, but removal of orchard trees or supported vines that take years to reach productive maturity may not be as adaptable to changes and, therefore, this impact is considered significant.

Clearing and grading involved with construction of access roads and well pad construction would disturb the agricultural soil and potentially mix topsoil and subsoil, and create dust. Use of heavy equipment, including trucks, and tanks used during oil and gas production activities would result in soil compaction beneath roads leading to well pad areas. Temporary pits and sumps that collect non-hazardous drilling fluids, wellbore cuttings, drilling wastes, crude oil, or produced water, may increase the risk of exposure of agricultural soils to potentially hazardous chemicals and materials.

Finding:

Without mitigation, the Project has the potential to involve other changes in the existing environment which, because of their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use. These impacts will be reduced to a level that is less than significant with implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's environmental effects related to other changes in the existing environment which, because of their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use. The following mitigation measure will be incorporated into the Project to reduce this impact to a less than significant level:

MM 4.2-2 To protect crops and structures adjacent to oil and gas activities on active agricultural lands, each Applicant/operator shall comply with the following mitigation measures set forth in other chapters of this Environmental Impact Report:

a. Surface water runoff and drainage on the well pads shall be mitigated as described in mitigation measures for Hydrology and Water Quality.

b. A Spill Prevention Countermeasure and Contingency Plan or Division of Oil Gas and Geothermal Resources Assembly Bill 1960 spill plan, as applicable, shall be prepared for the site and oil and chemical spills treated in accordance with the Division of Oil Gas and Geothermal Resources Senate Bill 4 Regulations for the site to protect adjacent farmland, as described in mitigation measures for Hazards.

c. Speed limits for oil and gas trucks shall be posted on unpaved roads to reduce dust generation; in the absence of signage, speed limits shall be limited to 25 miles per hour (or an alternate, more stringent dust suppression standard as adopted by the San Joaquin Valley Air Pollution Control District), and Applicants shall attest that employees have been trained in the appropriate speed limits.

d. Unpaved roads shall be watered or otherwise treated for dust suppression and control as described in Mitigation Measure for Air Quality, unless speeds are restricted to 15 mph.

e. Vehicle tracking control shall be installed where unpaved roads intersect with public paved roads, to prevent tracking of mud, dust, and weed seeds off site, unless speeds are restricted to 15 mph. This shall consist of a 50-foot length of a 3 inch-thick layer of gravel one inch or larger in diameter (or an alternate, more stringent dust suppression technique as approved by the San Joaquin Valley Air Pollution Control District).

f. Stormwater control shall be required at construction sites during well drilling, reworking, and/or decommissioning as described in mitigation measures for Hydrology.

g. Hazardous materials shall be stored within secondary containment as described in mitigation measures for Hazards.

h. Overhead electrical or communication lines shall be shown on the Site Plan, and shall be aligned to the greatest extent feasible with existing access roads and the minimum distance between the access road and the well installation or other oil and gas facility, parallel to tree or row crops, described further in mitigation measures for Public Utilities. If the use of existing roads is not feasible, lines shall be routed to minimize surface disturbance and minimize the impacts to surface activity

i. Underground pipelines serving the Project shall be shown on the Site Plan with locations marked and recorded with USAA, and periodically inspected and maintained as described in mitigation measures for Hazards.

C. Environmental Effects of the Project That Cannot Be Mitigated to a Level Less Than Significant.

None.

D. Cumulative Environmental Effects of the Proposed Project That Will Have a Less Than Significant Impact on the Environment.

None.

E. Cumulative Environmental Effects of the Proposed Project That Will Have a Significant Impact on the Environment.

Significant Effect:

The Project will contribute to cumulative impacts to agricultural or forest resources.

Description of Specific Impact:

With respect to agricultural farmland conversion, from 1998 to 2013, in Kern County, the average annual agricultural lands conversion rate has been 1,085 acres. Under the worst-case scenario, 298

acres of Prime Farmland, Farmland of Statewide Importance, or Unique Farmland could be converted annually from the implementation of the proposed Project. This 298 acres of converted Farmland would combine with other losses throughout the County to result in a significant cumulative impact on agriculture. Population growth is expected to continue in the County, and conversion of agricultural land to non-agricultural use can also be expected to occur from the need for additional residential development and infrastructure to accommodate the growth in the County.

Finding:

Impacts of the Project will combine with impacts of past, present and reasonably foreseeable projects to result in significant and unavoidable cumulative impacts to agricultural and forest resources. Specifically, the Project will make a cumulatively significant contribution to the conversion of Prime Farmland, Farmland of Statewide Importance, or Unique Farmland to non-agricultural uses. All feasible and reasonable changes or alterations have been required in, or incorporated into, the Project that substantially reduce the potentially significant effects identified in the EIR, though not to a less than significant level. This impact is significant and unavoidable.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's cumulatively significant contribution to the conversion of Prime Farmland, Farmland of Statewide Importance, or Unique Farmland to non-agricultural uses. Implementation of **MM 4.2-1** and **MM 4.2-2**, described above, will reduce the cumulative effects of the Project on agricultural or forest resources to the greatest extent feasible. Despite these mitigation measures, however, the Project will cause significant cumulative impacts to agricultural or forest resources. There are no feasible and reasonable mitigation measures that will prevent this cumulative impact of the Project. The Project's cumulative impact to agricultural or forest resources is significant and unavoidable.

3. AIR QUALITY

A. Environmental Effects of the Project Found To Have No Impact on the Environment, or Have a Less Than Significant Impact on the Environment.

None.

B. Environmental Effects of the Project That Are Potentially Significant, but That Can Be Mitigated to Less Than Significant Levels.

Significant Effect:

Without mitigation, the Project has the potential to conflict with or obstruct implementation of the applicable air quality plan (Impact 4.3-1).

Description of Specific Impact:

The San Joaquin Valley Air Pollution Control District (SJVAPCD or District) has developed plans to attain state and federal standards for ozone and PM. The District's air quality plans include emissions inventories to identify the sources and quantities of air pollutant emissions, evaluate how well different control methods have worked, and demonstrate how air pollution will be reduced. Emission increases associated with activities under the Project's permitted sources would come from boilers, cogeneration plants, process heaters, reciprocating internal combustion engines,

steam generators, production tanks, thermally enhanced oil recovery wells, and VOCDD (flares). These sources would be subject to SJVAPCD prohibitory rules, notably Rule 4455 (Components at Petroleum Refineries, Gas Liquids Processing Facilities, and Chemical Plants) and Rule 4623 (Storage of Organic Liquids). Emissions from new permitted sources would also be required to be mitigated by emission offsets under Rule 2201 (New and Modified Stationary Source Review). Therefore, permitted source emissions would be consistent with the SJVAPCD's adopted regulatory program to attain state and federal ozone and particulate matter standards.

Non-permitted sources and activities would be subject to the following federal and state regulatory programs, which are incorporated within the attainment plans for state and federal ozone and particulate matter standards: (i) heavy-duty engine and on-road vehicle standards enacted by CARB and the EPA (California standards codified at 13 CCR Section 1956.8); (ii) light and medium on-road vehicle standards enacted by CARB (starting at 13 CCR Section 1900). Non-permitted source/activity emissions were calculated using CARB's EMFAC2011 (January 2013) emissions model, which reflects adopted California on-road vehicle emission standards, and CARB'S OFFROAD2011 model to generate fleet average emission factors for off-road mobile sources and portable equipment operated within the SJVAB. Fugitive dust emissions were calculated using predictive emission factors recommended by the EPA in AP42, Fifth Edition. Therefore, non-permitted source/activities would be consistent with adopted regulatory programs incorporated within the SJVAPCD's ozone and particulate matter attainment plans.

Future oil and gas exploration and production activities that would be authorized under the Project would also be required to comply with the policies and measures of the Kern County General Plan and, to the extent applicable to County land, the Metropolitan Bakersfield General Plan.

Oil and gas activities that would be authorized under the Project could conflict with or obstruct implementation of the applicable air quality plan or potentially be inconsistent with the General Plan measures and therefore could be significant.

Finding:

Without mitigation, Project impacts caused by air pollutant emissions could conflict with or obstruct implementation of the applicable air quality plan or potentially be inconsistent with applicable general plan policies or measures. These impacts will be reduced to a level that is less than significant with implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's impacts on the environment caused by the introduction of air pollutant emissions during construction and operation. The following mitigation measures will reduce emissions during both construction and operation to a level that will not obstruct the implementation of an applicable air quality plan or applicable general plan policies and measures. The following mitigation measures will be incorporated into the Project to reduce this impact to a less than significant level:

MM 4.3-1 Consistent with the requirements of the San Joaquin Valley Air Pollution Control District Regulation II-Permits, the Applicant shall obtain an Authority to Construct permit and a Permit to Operate for any facility or equipment requiring a permit from the San Joaquin Valley Air Pollution Control District, such as stationary sources required to obtain permits pursuant to District Rule 2010. All emissions increases from permitted equipment shall comply with District Rule 2201.

EXHIBIT B

MM 4.3-2 The Applicant shall develop and implement a Fugitive Dust Control Plan in compliance with San Joaquin Valley Air Pollution Control District fugitive dust suppression regulations to further reduce emissions, during construction, of particulate matter that is 10 microns or less and 2.5 microns or less in diameter. The Fugitive Dust Control Plan shall include:

a. Name(s), address(es), and phone number(s) of person(s) responsible for the preparation, submission, and implementation of the plan.

b. Description and location of operation(s).

c. Listing of all fugitive dust emissions sources included in the operation.

d. The following dust control measures shall be implemented:

1. All on-site unpaved roads shall be effectively stabilized using water or chemical soil stabilizers that can be determined to be as efficient as or more efficient for fugitive dust control than California Air Resources Board approved soil stabilizers, and that shall not increase any other environmental impacts including loss of vegetation.

2. All material excavated or graded will be sufficiently watered to prevent excessive dust. Watering will occur as needed with complete coverage of disturbed areas. The excavated soil piles will be watered as needed to limit dust emissions to less than 20% opacity or covered with temporary coverings.

3. Construction activities that occur on unpaved surfaces will be discontinued during windy conditions when winds exceed 25 miles per hour and those activities cause visible dust plumes. Construction activities may continue if dust suppression measures are used to minimize visible dust plumes.

4. Track-out debris onto public paved roads shall not extend 50 feet or more from an active operation and track-out shall be removed or isolated such as behind a locked gate at the conclusion of each workday, except on agricultural fields where speeds are limited to 15 mph.

5. All hauling materials should be moist while being loaded into dump trucks.

6. All haul trucks hauling soil, sand, and other loose materials on public roads shall be covered (e.g., with tarps or other enclosures that would reduce fugitive dust emissions).

7. Soil loads should be kept below 6 inches or the freeboard of the truck.

8. Drop heights should be minimized when loaders dump soil into trucks.

9. Gate seals should be tight on dump trucks.

10. Traffic speeds on unpaved roads shall be limited to 25 miles per hour.

11. All grading activities shall be suspended when visible dust emissions exceed 20%.

12. Other fugitive dust control measures as necessary to comply with San Joaquin Valley Air Pollution Control District Rules and Regulations.

13. Disturbed areas should be minimized.

14. Disturbed areas should be re-vegetated as soon as possible after disturbance if area is no longer needed for oil and gas activities.

MM 4.3-3 All off-road construction diesel engines not registered under California Air Resources Board's Statewide Portable Equipment Registration Program, which have a rating of 50 horsepower or more, shall meet, at a minimum, the Tier 3 California Emission Standards for Off-road Compression-Ignition Engines as specified in California Code of Regulations, Title 13, section 2423(b)(1) unless that such engine is not available for a particular item of equipment. In the event a Tier 3 engine is not available for any off-road engine larger than 100 horsepower, that engine shall be equipped with retrofit controls that would provide nitrogen oxides and particulate matter emissions that are equivalent to Tier 3 engine.

a. All equipment shall be turned off when not in use. Engine idling of all equipment shall be limited to five minutes, except under exemptions specified in California Code of Regulations Title 13 Section 2449(d)(2)(A).

b. All equipment engines shall be maintained in good operating condition and in proper tune per manufacturers' specifications.

MM 4.3-4 To further reduce emissions of oxides of nitrogen from on-road heavy-duty diesel haul vehicles:

a. 2007 engines or pre-2007 engines shall comply with California Air Resources Board retrofit requirements set forth in California Code of Regulations Title 13 Section 2025.

b. All on-road construction vehicles, except those meeting the 2007/California Air Resources Board-certified Level 3 diesel emissions controls, shall meet all applicable California on-road emission standards and shall be licensed in the State of California. This does not apply to worker personal vehicles.

c. All on-road construction vehicles shall be properly tuned and maintained in accordance with the manufacturers' specifications.

Significant Effect:

Without mitigation, the Project will violate any air quality standard as adopted in (c)i or (c)ii, or established by the United States Environmental Protection Agency or Air District or contribute substantially to an existing or projected air quality violation (Impact 4.3-2).

EXHIBIT B

Description of Specific Impact:

Emissions generated by the Project were evaluated against the SJVAPCD Air Quality Thresholds of Significance for Criteria Pollutants. Air quality impacts associated with the Project were separated by construction and operational emissions.

Total Project emissions resulting from the construction of new facilities on an annual basis would exceed the SJVAPCD Criteria Pollutant Significance Thresholds except SO_2. However, construction of new facilities would be subject to the District's air permitting process, which would ensure that all such emissions would have to be fully offset. Therefore, there would no net increase in these emissions.

Permit-exempt equipment and small production settings consist mainly of pressure vessels and piping components. Future production activities would entail the construction of these types of small production settings. The emissions of all criteria pollutants except SO2 associated with construction activities related to permit-exempt equipment and small production settings would exceed the SJVAPCD construction emissions threshold. These types of construction activities do not require air permits and therefore these emissions would not be offset.

The construction activities related to wells include well drilling, rework of wells, well stimulation and well abandonment. Emissions associated with well construction activities would exceed SJVAPCD Construction Emissions Thresholds and, without mitigation, would be a significant impact.

With respect to operations, emissions from permitted stationary sources, permit-exempt equipment, and mobile sources at a Project level would result in emissions levels that would exceed SJVAPCD Operational Emissions Threshold. Only the permitted stationary sources would be required to be off-set because it is a condition of SJVAPCD air permit. Therefore, there would be no net increase in these emissions. Permit-exempt equipment and mobile sources would also result in emissions level that would exceed the District's Operation Emission Threshold, but would not be required to be offset. These emissions would thus result in a considerable net increase of certain criteria pollutants and would be a significant impact without mitigation.

Finding:

Without mitigation, Project impacts caused by air pollutant emissions could violate any air quality standard as adopted in (c)i or (c)ii, or established by the United States Environmental Protection Agency or Air District or contribute substantially to an existing or projected air quality violation. These impacts will be reduced to less than significant with implementation of all reasonable and feasible mitigation measures, as described below. Therefore this impact is less than significant with mitigation.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's impacts on the environment caused by the introduction of air pollutant emissions during construction and operation. The following mitigation measures will reduce emissions during both construction and operation to a level that will not violate any air quality standard as adopted in (c)i or (c)ii, or established by the United States EPA or Air District, or contribute substantially to an existing or projected air quality violation. The following mitigation measures will be incorporated into the

Project to reduce this impact to a less than significant level: **MM 4.3-1**, **MM 4.3-2**, **MM 4.3-3**, and **MM 4.3-4**, described above.

Significant Effect:

Without mitigation, the Project has the potential to expose sensitive receptors to substantial pollutant concentrations (Impact 4.3-3).

Description of Specific Impact:

Project construction and operational emissions would exceed the current 10 in one million CEQA significance threshold for cancer risk if a 10,000-foot well is drilled, and if a 5,000-foot well is drilled for the years 2015 to 2017, assuming that the risk level in years 2016 and 2017 would be the same as in 2015. The cancer risk from all oil processing equipment emissions would exceed 10 in one million from the fenceline to 478 to 701 feet, depending on the Subarea. Emissions and risk from any future proposed facilities would be required to meet the Air District's risk threshold which is currently 10 in one million. Therefore, this impact would be significant without mitigation. Moreover, onsite construction workers potentially could be exposed to Valley Fever from fugitive dust generated during construction of the proposed Project, notably during excavation, grading, and other earthmoving activities. The risks associated with exposure to Valley Fever are also significant without mitigation.

Finding:

Project impacts to sensitive receptors from emissions during construction and operations, and risks associated with exposure to Valley Fever from fugitive dust, will be reduced to less than significant levels with the incorporation of mitigation measures. These impacts will be reduced to a level that is less than significant with implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's impacts to the environment caused by the introduction of air pollutant emissions during construction and operation. The following mitigation measures will reduce emissions during both construction and operation to a level that will not expose sensitive receptors to substantial pollutant concentrations. The following mitigation measures will be incorporated into the Project to reduce this impact to a less than significant level:

MM 4.3-5 Construction:

The Site Plan Application shall include a Site Vicinity Figure showing the location of any sensitive receptor(s) within 3,000 feet of the construction site (potential impact area) for the proposed new well or other ancillary facility or equipment (excluding pipelines).

a. If there are no sensitive receptors within this potential impact area, then no construction mitigation measures shall be required.

b. If there are sensitive receptors within the potential impact area, then additional information must be provided showing the setback from the closest edge of the

well pad to the property line of the nearest sensitive receptor. The minimum distances shall be as follows:

Well Depth (Feet)	Minimum Setback Distance from Well Site to Adjacent Property Line of an Existing Sensitive Receptor (Feet)
Western Subarea	
10,000	367
5,000	116
2,000	NA
Central Subarea	
10,000	367
5,000	116
2,000	NA
Eastern Subarea	
10,000	296
5,000	NA
2,000	NA

c. If the above setbacks cannot be met, and for existing wells, the Applicant shall provide a site-specific or other risk assessment to the San Joaquin Valley Air Pollution Control District, which may include implementation of one or more of the following risk minimization measures, or other such measures that are demonstrated by the Applicant to the San Joaquin Valley Air Pollution Control District, to achieve a level of risk less than the threshold risk level, and shall provide confirmation from the San Joaquin Valley Air Pollution Control District that the activity that is the subject of the application will not exceed the risk threshold:

1. Placement of engines in the potential impact area away from the sensitive receptors.

2. Utilize directional drilling to locate rig away further from the sensitive receptor(s).

3. Use of late-model engines, low-emission diesel products, alternative cleaner fuels (e.g., natural gas or liquefied petroleum gas), engine retrofit technology, add-on devices such as diesel particulate filters or oxidation catalyst, and/or other options as such become available to reduce emissions from off-road and other equipment.

4. Utilize electricity line power if available.

5. Shutdown all equipment when not in use, and otherwise minimize engine idling by limiting idling to 15 minutes.

6. Use of automatic rigs.

7. Assist and pay to relocate residents to temporary lodging during well construction, drilling, and completion activities, if such residents voluntarily agree to such relocation.

MM 4.3-6 Applicants shall include in their Worker Environmental Awareness Program information on how to recognize the symptoms of Valley Fever and to promptly report suspected symptoms of work-related Valley Fever to a supervisor. Workers exposed to fugitive dust shall be provided with the option of using a filter fitted over their nose and mouth, secured by a strap, including training for appropriate mask practices as part of the Worker Environmental Awareness Training Program.

C. Environmental Effects of the Project That Cannot Be Mitigated to a Level Less Than Significant.

Significant Effect:

The Project will create objectionable odors that affect a substantial number of people (Impact 4.3-4)

Description of Specific Impact:

During construction activities, odorous compounds may be present in the exhausts from on-road vehicles and off-road construction equipment. The operations of drilling, completing, and stimulation of wells may also result in the release of odorous compounds. According to the SJVAPCD, there was only one unconfirmed odor complaint related to construction activities filed over three years. Since the District's threshold for unconfirmed complaints is three or more complaints per year averaged over three years (that is, nine unconfirmed complaints over three years), odor impacts from construction operations are not expected to be significant.

With respect to the operation of permitted equipment used for crude oil and natural gas production and processing, less than three unconfirmed complaints and less than two confirmed complaints were filed over a three-year period. Both the number of unconfirmed and confirmed complaints do not exceed the thresholds of significance established by the odor complaints for a given petroleum production or gas processing facility. This indicates that in general operation of permitted equipment does not result in an appreciable amount of emissions of odorous compounds. In addition to the complaints analysis, the odor assessment screening tool based on the list of facilities presented in EIR Table 4.3-38 shows that oil and gas production and processing facilities are not included in the list of common facilities that are likely to have potentially significant odor emissions.

Non-permitted activities with a potential to release odors consists mainly in on-road travel and well maintenance. During well maintenance, a fluid is normally introduced into the well bore, and the hydraulic pressure exerted by the fluid prevents gas from escaping into the atmosphere. Diesel-fueled trucks traveling on local roadways would produce exhaust odors that could be considered offensive to some individuals. Although, in general, odors associated with diesel fumes are

temporary and disperse rapidly with distance from the source, exposure of receptors to objectionable odor emissions from mobile-sources represent an unavoidable nuisance.

Finding:

The Project will continue to create odors, but based on past and projected future operations has not resulted in any significant adverse impacts to nearby sensitive receptors. However, exposure of receptors to objectionable odor emissions from mobile-sources represent an unavoidable nuisance. Therefore, the Project could create objectionable odors that affect a substantial number of people. These impacts will be reduced with implementation of all reasonable and feasible mitigation measures, as described below, but not to less than significant levels. Therefore this impact is significant and unavoidable.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to create objectionable odors that affect a substantial number of people. Implementation of **MM 4.3-7**, described below and incorporated into the Project, will reduce the Project's odor impacts to the greatest extent feasible. Despite this mitigation measure, however, the Project will cause significant odor impacts. There are no feasible and reasonable mitigation measures that will prevent this impact of the Project. The Project's odor impacts are significant and unavoidable.

MM 4.3-7 Applicant shall submit an Odor Complaint Management Plan to the County prior to receiving its first Site Plan conformity review approval. The Plan shall include a designated contact for odor complaints, creation of a log for odor complaints, and protocol for handling odor complaints. The odor log and report files shall be available for public review upon request.

D. Cumulative Environmental Effects of the Proposed Project That Will Have a Less Than Significant Impact on the Environment.

None.

E. Cumulative Environmental Effects of the Proposed Project That Will Have a Significant Impact on the Environment.

Significant Effect:

The Project will result in a cumulatively considerable net increase of a criteria pollutant for which the region is nonattainment under an applicable federal or state ambient air quality standard (Impact 4.3-5).

Description of Specific Impact:

The San Joaquin Valley Air Basin (SJVAB) is in nonattainment for $PM_{2.5}$, PM_{10}, and ozone. Ozone is addressed by examining its precursors which are NO_X, VOC, and CO. The construction and operational activities of oil and gas activities that would be authorized under this Project would result in a considerable net increase of the following criteria pollutants NO_x, VOC, CO, PM_{10} and $PM_{2.5}$, in excess of the recommended criteria pollutant significance threshold adopted by the SJVAPCD Board. Moreover, the Project would contribute between two and 14% of these pollutants in the SJVAB or between 19% and 97% of Kern County's contribution. The EIR's analysis

indicates that most SO_2 emissions in Kern County would originate from oil and gas activities and the majority of NO_X emissions. Therefore, the proposed Project would have a cumulatively considerable contribution of criteria pollutant (NO_X, PM_{10}, $PM_{2.5}$, CO and SO_2) emissions to the Kern County portion of the SJVAB. Therefore, the contribution of Project-related impacts to air quality would be cumulatively considerable.

Finding:

Air quality impacts of the Project will combine with impacts of past, present and reasonably foreseeable projects to result in a cumulatively considerable net increase of criteria pollutants for which the Project region is in nonattainment under an applicable federal or state ambient air quality standard. Specifically, the Project will make a cumulatively significant contribution of criteria pollutant (NO_X, PM_{10}, $PM_{2.5}$, CO and SO_2) emissions to the Kern County portion of the SJVAB, which is in nonattainment for $PM_{2.5}$, PM_{10}, and ozone precursors (i.e, NO_X, VOC, and CO). All feasible and reasonable changes or alterations have been required in, or incorporated into, the Project that substantially reduce the potentially significant effects identified in the EIR, though not to a less than significant level. Thus, this impact is significant and unavoidable.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to result in a cumulatively considerable net increase of criteria pollutants for which the Project region is in nonattainment under an applicable federal or state ambient air quality standard. Implementation of **MM 4.3-1, MM 4.3-2, MM 4.3-3, and MM 4.3-4**, described above, and **MM 4.3-8**, described below, will reduce the Project's potential to result in a cumulatively considerable net increase of criteria pollutants for which the Project region is in nonattainment. Despite these mitigation measures, however, this cumulative impact will remain significant. There are no feasible and reasonable mitigation measures that will prevent this cumulative impact of the Project. Accordingly, this impact is significant and unavoidable.

MM 4.3-8 For criteria emissions not required to be offset under a District rule as described in MM 4.3-1, and for Project vehicle and other mobile source emissions, the County will enter into an emission reduction agreement with the San Joaquin Valley Air Pollution Control District, pursuant to which the Applicant shall pay fees to fully offset Project emissions of oxides of nitrogen, reactive organic gases, and particulate matter of 10 microns or less in diameter (including as applicable mitigating for reactive organic gases by additive reductions of particulate matter of 10 microns or less in diameter) (collectively, "designated criteria emissions") to avoid any net increase in these pollutants. The air quality mitigation fee shall be paid to the County as part of the Site Plan review and approval process, and shall be used to reduce designated criteria emissions to fully offset Project emissions that are not otherwise required to be fully offset by District permit rules and regulations.

As an alternative to paying the fee, an Applicant may reduce emissions for one or more designated criteria emissions through actual reductions in air emissions from other Applicant sources, as submitted to the County and validated by the District. This Project offset requirement alternative shall be enforced by the County and verified by San Joaquin Valley Air Pollution Control District, and must be approved in advance by the San Joaquin Valley Air Pollution Control District. If a voluntary emission reduction agreement is not executed by the County and San

Joaquin Valley Air Pollution Control District, then each Applicant must mitigate for the full amount of designated criteria pollutants as verified by the San Joaquin Valley Air Pollution Control District, with evidence of such District-verified offsets presented as part of the Site Plan Conformity Review application documentation.

Examples of feasible air emission reduction activities that may be funded by air quality fees paid by Applicant or proposed and implemented by the Applicant under the emission reduction agreement include, but are not limited to, the following:

a. Replacing or retrofitting diesel-powered stationary equipment such as motors on generators, pumps and wells with electric or other lower-emission engines that are not subject to Title V reductions.

b. Replacing or retrofitting diesel-powered school, transit, municipal and other community mobile sources such as buses, car fleets, and maintenance equipment, with electric or other lower-emission engines.

c. Reducing emissions from public infrastructure sources such as water and wastewater treatment and conveyance facilities, and reducing water-related emissions through water conservation and reclamation.

d. Funding lower-emission equipment and processes for local businesses, schools, non-profit and religious institutions, hospitals, city and county facilities.

4. BIOLOGICAL RESOURCES

A. Environmental Effects of the Project Found to Have No Impact on the Environment, or Have a Less Than Significant Impact on the Environment.

None.

B. Environmental Effects of the Project That Are Potentially Significant, but That Can Be Mitigated to Less Than Significant Levels.

Significant Effect:

Without mitigation, the Project has the potential to cause substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations by the California Department of Fish and Wildlife or the United States Fish and Wildlife Service. (Impact 4.4-1).

Description of Specific Impact:

Potential Special Status Plant Impacts.

As explained in EIR section 4.4, potential impacts to special status plants were analyzed by using: (1) statistical and habitat suitability models for 9 plant species, and (2) an assessment of the

occurrence potential of 31 plant species by tier and subarea for which sufficient modeling data is not available.

Potential Impacts to Modeled Special Status Plants

If the maximum level of annual disturbance conservatively assumed in EIR Table 4.4-71 occurred each year for 25 years, impacts to modeled special status plants in the Project Area could range from 0.9% (Kern County larkspur) to 33.9% (Lost Hills crownscale) of the total modeled high quality habitat. On an annual basis, potential impacts would range from 0.04% (Kern County larkspur) to 1.36% (Lost Hills crownscale) of the total Project Area modeled high quality habitat. Impacts to the Lost Hills crownscale, heartscale San Joaquin woolly-threads, Kern mallow, recurved larkspur, and California jewelflower could range from 0.41% to 1.36% per year, and 10.2% to 33.9% over 25 years, of total Project Area high quality modeled habitat. Impacts to poor to moderate quality modeled habitat would range from 0.24% to 0.24% per year and 5.9% to 6.2% over 25 years for each of the six modeled plants for which such data was available. These impacts to modeled special status plants would be significant without mitigation.

Potential Impacts to Non-Modeled Special Status Plants

Eight of the non-modeled plants occur in all three subareas: Bakersfield smallscale, Coulter's goldfield, Horn's milk vetch, Tejon poppy, Mason's neststraw, Munz's tidy tips, Oil neststraw, and Hispid bird's-beak. These species are the most widely distributed in the Project Area, and could also occur in both Tier 1 and Tier 2 locations where more than 97% of future disturbance is projected to occur. As a result, impacts to these species would be significant without mitigation.

Seven of the non-modeled plants occur only in the Eastern Subarea: Calico monkeyflower, California satintail, California tortula moss (California screw-moss), Comanche Point layia, Shevock's golden aster, Striped adobe-lily, and Vasek's clarkia. All of these species could also occur in Tiers 1 through 3 within the Eastern Subarea. As discussed above, about 21% (1,003 acres per year) of all Project Area future disturbance is projected to occur in the Eastern Subarea, of which 84% would occur in Tier 1, 9% in Tier 2, and 6% in Tier 3. As a result, the seven non-modeled plant species that occur only in the Eastern Subarea of the Project Area also could occur in Tiers 1 through 3 which account for 99% of the total projected future disturbance in the subarea. Impacts to these species would be significant without mitigation.

Six of the non-modeled plants occur only in the Western Subarea: Diamond-petaled California poppy, Hall's tarplant, Jared's pepper-grass, Lemmon's jewel flower, Showy golden madia, and Temblor buckwheat. All of these species could also occur in Tier 1 and Tier 2 within the Western Subarea. As discussed above, about 71% (3,460 acres per year) of all Project Area future disturbances is projected to occur in the Western Subarea, of which 94% would occur in Tier 1 and 4.5% would occur in Tier 2. As a result, the six non-modeled plant species that occur only in the Western Subarea also could occur in Tiers 1 through 2, which account for 98.5% of the total projected future disturbance in the subarea. Impacts to these species would be significant without mitigation.

One non-modeled plant, Erectstem saltbush, occurs only in the Central Subarea. This species is not expected to occur in Tier 1, but could occur in Tiers 2 through 4 of the Central Subarea. About 8% of total Project Area disturbance is projected to occur in the Central Subarea, and 24% of this potential activity (about 93 acres per year) would occur in Tiers 2 through 4. The species is associated with seasonal wetlands and washes located in the northern portion of the Central Subarea, some of which is protected in existing preserve lands. Although impacts to Erectstem

saltbush would likely be lower than for other non-modeled plant species due to the limited locations in which the species occurs, potential impacts could still be significant without mitigation in the event future oil and gas activities occur in these areas.

One non-modeled plant, spiny-sepaled button-celery, occurs only in the Central and Eastern Subareas. This species could also occur within Tiers 1 through 4 of in the Central and Eastern Subareas. About 29% of total Project Area disturbance is projected to occur in the Central and Eastern Subareas, and 99.9% of this potential activity (about 1,395 acres per year) would occur in Tiers 1 through 4. Potential impacts to the spiny-sepaled button-celery would be significant without mitigation because the species occurs in locations where almost all future oil and gas disturbance would be concentrated in the Central and Eastern Subareas.

Three non-modeled plants, Pale yellow layia, Piute Mountains navarretia, and Round-leaved filaree, only occur in hilly terrain within the Western and Eastern Subareas. These species could also occur within Tiers 1 through 4 of in the Western and Eastern Subareas. About 92% of total Project Area disturbance is projected to occur in the Western and Eastern Subareas, and 99.9% of this potential activity (about 4,460 acres per year) would occur in Tiers 1 through 4. Potential impacts to the Pale yellow layia, Piute Mountains navarretia, and Round-leaved filaree, would be significant without mitigation because these species occur in locations where almost all future Project Area oil and gas disturbance would be concentrated.

Five non-modeled plants, Alkali mariposa lily, Deltoid bract saltbush (*Subtle orache*), Lesser saltscale, Slough thistle, and Kings gold, only occur within the Western and Central subareas. These species could also occur within Tiers 1 through 4 of in the Western and Central Subareas. About 79% of total Project Area disturbance is projected to occur in the Western and Central Subareas, and 99.9% of this potential activity (about 3,851 acres per year) would occur in Tiers 1 through 4. Potential impacts to the Alkali mariposa lily, Deltoid bract saltbush, Lesser saltscale, Slough thistle, and Kings gold would be significant without mitigation because these five species occur in locations where almost all future oil and gas disturbance would be concentrated in the Western and Central Subareas.

Potential Special Status Wildlife Impacts

Potential impacts to special status wildlife were analyzed by using: (1) statistical and habitat suitability models for 28 wildlife species, and (2) an assessment of the occurrence potential of 19 special status wildlife species by tier and subarea for which sufficient modeling data is not available.

Potential Impacts to Special Status Mammals

As shown in EIR Tables 4.4-79 to 81, potential impacts to 13 special status mammals were evaluated, including 10 modeled and 3 non-modeled species. The modeled species include the San Joaquin kit fox, the “umbrella” species identified by the SJV Recovery Plan, and three “keystone species” in the SJV Recovery Plan, the giant, Tipton, and short-nosed kangaroo rats.

EIR Table 4.4-79 shows that impacts to high quality modeled habitat for several mammals would either substantially (San Joaquin pocket mouse, San Joaquin kit fox, Tipton kangaroo rat) or largely (San Joaquin antelope squirrel, giant kangaroo rat, Tulare grasshopper mouse, short-nosed kangaroo rat) occur in Tier 1 locations and in the Western Subarea. Impacts to American badger high quality modeled habitat would also be concentrated in Tier 1 locations, but would occur in the Eastern Subarea to a greater extent than in the Western Subarea. Impacts to modeled high quality

habitat for the western mastiff bat would be smaller in magnitude than for other mammals and largely confined to Western Subarea Tier 1 locations. Buena Vista shrew high quality habitat is relatively rare in the Project Area and generally associated with isolated existing or historical lakebed locations. About 1.2 acres of modeled Buena Vista shrew high quality habitat could be impacted each year, primarily in the Central Subarea. Impacts to modeled high quality mammal habitat would range from 3,000 to nearly 4,000 acres per year for the San Joaquin kit fox and pocket mouse, and from about 300 acres to over 1,700 acres per year for the San Joaquin antelope squirrel, American badger, giant kangaroo rat, Tulare grasshopper mouse, short-nosed kangaroo rat, and Tipton kangaroo rat.

EIR Table 4.4-80 shows that, for most species, modeled poor to moderate quality habitat comprises the majority of the land in each tier and subarea. Consequently, impacts to modeled poor to moderate quality special status mammal habitats would generally occur to the greatest extent in the Western Subarea, to a lesser extent in the Eastern Subarea, and mainly in Tier 1 areas because the largest amount of future disturbance is projected to occur in these portions of the Project Area. Special status mammals with the greatest amount of poor to moderate quality modeled habitat, and the largest level of potential impacts to such habitat, include the western mastiff bat (foraging), Tipton kangaroo rat, short-nosed kangaroo rat, and Tulare grasshopper mouse. Table 4.4-80 also indicates that certain species with proportionately higher amounts of high quality habitat in the Project Area, including the American badger, San Joaquin antelope squirrel, and San Joaquin kit fox, would also be subject to potential impacts to poor to moderate quality habitat ranging from 1,787 acres (San Joaquin kit fox) to nearly 3,500 acres per year (American badger). Given the proximity of large amounts of high-quality habitat in the Project Area, it is more likely that impacts to occupied habitat could also occur to these species in areas of modeled poor to moderate quality habitat.

EIR Table 4.4-82 analyzes the amount of total modeled high quality habitat for each modeled special status mammal, and low to moderate quality habitat for each species except the San Joaquin pocket mouse in the Project Area that could be impacted by the projected annual level of disturbance summarized in Table 4.4-72 over 25 years.

EIR Table 4.4-82 indicates that, if the maximum level of annual disturbance conservatively assumed in Table 4.4-71 occurred each year for 25 years, impacts in the Project Area could range from 0.4% (Buena Vista shrew) to 27.7% (giant kangaroo rat) of the total modeled high quality habitat. On an annual basis, potential impacts would range from 0.02% (Buena Vista shrew) to 1.11% (giant kangaroo rat) of the total Project Area modeled high quality habitat. Impacts to the giant kangaroo rat, San Joaquin antelope squirrel, short-nosed kangaroo rat, San Joaquin kit fox, Tulare grasshopper mouse, and San Joaquin pocket mouse could range from 0.43% to 1.11% per year, and 10.8% to 27.7% over 25 years, of total Project Area high quality modeled habitat. Impacts to poor to moderate quality modeled habitat would range from 0.12% (San Joaquin kit fox) to 0.26% (Tipton Kangaroo rat) per year and 3% to 6.6% over 25 years. Impacts to the Buena Vista Lake shrew would affect less than 0.5% of total high quality modeled habitat and 4.1% of poor to moderate quality modeled habitat in the Project Area if the maximum level of potential impacts occurred annually for 25 years. Potential impacts to special status mammals would be significant without mitigation.

The occurrence assessment for the pallid bat, ringtail, and Townsend's big-eared bat indicates that these species could occur in Tiers 1 through 4 in the Western and Eastern Subareas. About 92% of the total potential annual impacts in the Project Area (4,460 acres) would occur in these locations. The Townsend's big-eared bat could also occur in the Central Subarea. Potential impacts to these species could be significant without mitigation. The ringtail is a nocturnal species that requires

access to perennial water sources and generally prefers areas with high vegetative cover. It is more likely to occur in higher elevations, or in deeper canyons with reliable water supplies, than in most of the lower elevation, drier, and sparsely-covered portions of the Project Area. Potential impacts to the ringtail would be unlikely to occur in most of the Project Area other than deeper canyons and in higher elevation locations with significant groundcover and access to perennial water sources.

Potential Impacts to Special Status Reptiles and Amphibians

As shown in EIR Tables 4.4-79 to 4.4-81, potential impacts to 10 special status reptiles and amphibians were evaluated, including seven modeled and three non-modeled species. The modeled species include the blunt-nosed leopard lizard (BNLL), a state and federal endangered and state fully protected species, and the Tehachapi slender salamander, as state threatened species.

EIR Table 4.4-79 shows that impacts to modeled high quality habitat for BNLL and the San Joaquin coachwhip would largely occur in Tier 1 locations and in the Western Subarea. Impacts to BNLL high quality modeled habitat would, using the conservative assumptions summarized in EIR Table 4.4-72, be about 1,774 acres per year, and 1,269 acres per year for the San Joaquin coachwhip. Impacts to other modeled species' high quality habitat, including the silvery legless lizard, western pond turtle, coast horned lizard, Tehachapi slender salamander, and western spadefoot would range from 0.03 acres per year (western spadefoot) to 103 acres per year for the silvery legless lizard. Potential impacts to modeled high quality habitat for the Tehachapi slender salamander would be limited to the Eastern Subarea, and to the Western Subarea for the western spadefoot. Potential impacts to other modeled high quality habitat could occur in all three subareas (silvery legless lizard, western pond turtle) and the Western and Southern Subareas (coast horned lizard).

EIR Table 4.4-80 indicates that modeled poor to moderate quality habitat comprises the majority of the land in each tier and subarea. Consequently, impacts to modeled poor to moderate quality reptile and amphibian habitats would generally occur to the greatest extent in the Western Subarea, to a lesser extent in the Eastern Subarea, and mainly in Tier 1 areas because the largest amount of future disturbance is projected to occur in these portions of the Project Area. Reptiles and amphibians with the greatest amount of poor to moderate quality modeled habitat, and the largest level of potential impacts to such habitat, include the western spadefoot, coast horned lizard, western pond turtle and silvery legless lizard. Two species, the BNLL and the coachwhip, have relatively high amounts of modeled high quality habitat in the Project Area. Impacts to occupied habitat may also be more likely to occur to these species in areas of modeled poor to moderate quality habitat.

EIR Table 4.4-83 analyzes the amount of total modeled high quality habitat for each modeled special status reptile and amphibian, and low to moderate quality habitat for each species except the Tehachapi slender salamander in the Project Area that could be impacted by the projected annual level of disturbance summarized in Table 4.4-72 over 25 years.

EIR Table 4.4-79 indicates that, if the maximum level of annual disturbance conservatively assumed in Table 4.4-72 occurred each year for 25 years, impacts in the Project Area could range from 0.5% (western spadefoot, Tehachapi slender salamander) to 22.4% (San Joaquin coachwhip) of the total modeled high quality habitat. On an annual basis, potential impacts would range from 0.02% (western spadefoot, Tehachapi slender salamander) to 0.89% (San Joaquin coachwhip) of the total Project Area modeled high quality habitat. Impacts to the BNLL, western pond turtle, coachwhip and silvery legless lizard could range from 0.40% to 0.89% per year, and 9.9% to 22.4% over 25 years, of total Project Area modeled high quality habitat. Potential annual and 25-year impacts to modeled high quality habitat for the coast horned lizard, Tehachapi slender salamander

and western spadefoot would affect between 0.5% to 0.7% of total modeled high quality habitat in the Project Area if the maximum level of potential impacts occurred annually for 25 years. As discussed below, mitigation measures that require the avoidance (unless fully permitted by state and federal resource agencies) impacts to riparian and aquatic habitats in addition to species-related mitigation measures would reduce the level of the potential impacts to the Tehachapi slender salamander, western spadefoot and western pond turtle by avoiding the primary habitats where these species occur. Impacts to modeled poor to moderate quality habitat would range from 0.18% (BNLL) to 0.26% (coast horned lizard) per year and 4.5% to 6.5% over 25 years. These impacts would be significant without mitigation.

The occurrence assessment for the California red-legged frog, California tiger salamander, Kern Canyon slender salamander, and Yellow-blotched salamander indicates that the Project would be unlikely to significantly impact these species. None have a substantial likelihood of occurring in Tier 1 areas, where over 90% of future disturbance is projected to be concentrated. The potential occurrence of the California red-legged frog and California tiger salamander is generally limited to Tier 2 locations in the far northwest corner of the Project Area and where critical habitat has been designated for these species (see Figure 4.4-3). The Kern Canyon slender salamander is generally limited to the Tier 2 and Tier 3 areas in the vicinity of the Kern River canyon. The yellow blotched salamander generally occurs in Tier 2 and Tier 4 areas in the Eastern and Western Subareas. As discussed below, mitigation measures that require the avoidance (unless fully permitted by state and federal resource agencies) of impacts to riparian and aquatic habitats in addition to species-related mitigation measures would reduce the level of the potential impacts to the Kern Canyon slender salamander in aquatic habitats associated with the Kern River and aquatic habitats that also support the yellow blotched salamander in the Eastern and Western Tier 2 and Tier 4 locations. Potential impacts to could occur in occupied north-facing slope habitat outside of aquatic and riparian areas that these species may also occupy.

Potential Impacts to Special Status Birds

As shown in EIR Tables 4.4-79 to 4.4-81, potential impacts to 20 special status birds were evaluated, including 11 modeled and 9 non-modeled species. The modeled species include the unlisted burrowing owl, the tricolored blackbird (state endangered), and the least bell's vireo (state and federal endangered). As discussed in EIR section 4.4, the modeling data is generally confined to Project Area locations below about 2000 feet in elevation. Models of high quality habitat for the golden eagle (state fully protected) and Swainson's hawk (state threatened) were also used to evaluate potential Project impacts to these species in lower elevation locations.

EIR Table 4.4-79 shows that impacts to modeled high quality habitat for the burrowing owl, grasshopper sparrow, lesser sandhill crane and tricolored blackbird would be largely concentrated in Tier 1 areas and in the Western Subarea. Almost all of the projected impacts to Le Conte's thrasher modeled high quality habitat would occur in Tier 1 of the Western Subarea. Burrowing owl and lesser sandhill crane modeled high quality habitat impacts could occur to lesser extent in the Central Subarea, and impacts could also occur to burrowing owl and grasshopper sparrow modeled high quality habitat in the Eastern Subarea. Potential impacts to modeled high quality habitat would primarily occur in Tiers 1-2 of the Eastern Subarea for the northern harrier and Tier 1 and Tier 3 of the subarea for the least bell's vireo. Impacts to mountain plover high quality modeled habitat would mainly occur in Tier 2 of the Central Subarea. Potential impacts to yellow headed blackbird modeled high quality habitat would occur in each of the three subareas and mainly in Tiers 1-2.

The models do not identify high quality habitat for the golden eagle or the Swainson's hawk within the lower elevation portions of the Project Area. The TUMSHCP EIS and the Biological Opinion for the TUMSHCP issued by the USFWS in 2013 show that, in contrast with the lower elevation portions of the Project Area, locations above 2,000 feet are known to support active golden eagle territories, nests, and high quality breeding and foraging habitat. Based on data from Tejon Ranch surveys conducted for the TUMSHCP, the USFWS concluded that, due to abundant prey, breeding pairs of golden eagles in higher elevations along the southern border of the Project Area likely maintain smaller than average territories (i.e., about 5,000 to 8,000 acres), which could result in greater than typical species densities in these locations (USFWS 2013d). To provide a conservative assessment, the EIR assumes that all Project Area land located above 2,000 feet in elevation is high quality golden eagle habitat, and that disturbance in these areas could result in significant impacts to the species without mitigation. The Swainson's hawk was not included in the TUMSHCP.

EIR Table 4.4-79 shows that acreage impacts to modeled high quality habitat vary by species. Impacts to burrowing owl, Le Conte's thrasher, grasshopper sparrow and lesser sandhill crane modeled high quality habitat would, using the conservative assumptions summarized in EIR Table 4.4-71, range from 128 acres per year (lesser sandhill crane) to 1,003 acres per year (burrowing owl). Potential impact to modeled high quality habitat for the tricolored blackbird, least Bell's vireo, northern harrier, mountain plover and yellow-headed blackbird would range from 2.42 acres per year (yellow headed blackbird) to 42 acres per year (tricolored blackbird).

EIR Table 4.4-80 shows that, consistent with the results for most mammals, reptiles and amphibians, most of the Project Area is modeled as poor to moderate quality modeled avian habitat for many species. Impacts to poor to moderate habitat for these species, including the Swainson's hawk, golden eagle, mountain plover, northern harrier, tricolored blackbird and Le Conte's thrasher, would range from just under 4,000 acres (Le Conte's thrasher) to more than 4,800 acres (Swainson's hawk, golden eagle, mountain plover, northern harrier) and would occur in the Western Subarea, to a lesser extent in the Eastern Subarea, and mainly in Tier 1 areas because the largest amount of future disturbance is projected to occur in these portions of the Project Area. Birds that have large amounts of modeled poor to moderate quality habitat in addition to modeled high quality habitat in the Project Area include the Le Conte's thrasher, burrowing owl, grasshopper sparrow and yellow-headed blackbird. Impacts to occupied habitat may also be more likely to occur to these species in areas of modeled poor to moderate quality habitat.

EIR Table 4.4-84 analyzes the amount of total modeled high quality habitat for each modeled special status bird, and modeled poor to moderate quality habitat for each species except the least Bells' vireo in the Project Area that could be impacted by the projected annual level of disturbance summarized in EIR Table 4.4-72 over 25 years.

EIR Table 4.4-84 indicates that, if the maximum level of annual disturbance conservatively assumed in EIR Table 4.4-71 occurred each year for 25 years, impacts in the Project Area could range from 0.3% (mountain plover) to 28.8% (Le Conte's thrasher) of total modeled high quality habitat. On an annual basis, potential impacts would range from 0.01% (mountain plover) to 1.15% (Le Conte's thrasher) of the total Project Area modeled high quality habitat. Impacts to the Le Conte's thrasher and burrowing owl could range from 1.15% to 0.45% per year, and 28.8% to 11.% over 25 years, of total Project Area high quality modeled habitat. Potential 25-year impacts to high quality modeled habitat for the least Bell's vireo, tricolored blackbird, and grasshopper sparrow could range from 3.4% to 6.6%. Potential 25-year impacts to high quality modeled habitat for the lesser sandhill crane, yellow headed blackbird, northern harrier and mountain plover could range between 0.3% to 1.1%. Impacts to poor to moderate quality modeled habitat would range from

0.02% (lesser sandhill crane) to 0.61% (grasshopper sparrow) per year and 0.5% to 15.2% over 25 years. These impacts would be significant without mitigation.

The occurrence assessment for the Fulvous whistling-duck indicates that the species is only likely to occur in Tier 2 areas within the Western and Central Subareas. About 4% (208 acres per year) of total Project Area impacts would occur in these locations, and mitigation measures that require the avoidance (unless fully permitted by state and federal resource agencies) of impacts to riparian and aquatic habitats in addition to species-related mitigation measures would reduce potential impacts to an additional extent. Project activities are unlikely to significantly affect the Fulvous whistling-duck. The occurrence assessments for the loggerhead shrike, long-eared owl, short-eared owl, western snowy plover and white-tailed kite indicate that each these species can occur in the Western Subarea and at least one additional subarea (long-eared owl, short-eared owl, western snowy plover) or the other two subareas (loggerhead shrike, white-tailed kite). All of these species could also occur in Tiers 1-4. Projected Project impacts would occur primarily in the Western Subarea and in Tiers 1-4. Potential impacts to the loggerhead shrike, long-eared owl, short-eared owl, western snowy plover and white-tailed kite could be significant without mitigation.

As discussed in EIR section 4.4, the occurrence assessments for non-modeled species are conservative and treat any historical evidence of occurrence as indicating the possibility of future occurrence in an applicable tier or subarea. Using this approach, the occurrence assessment indicates that the California condor could occur in Tiers 1-5 of the Western and Eastern Subareas based on historical records that in most instances predate the capture of the existing population in the 1970s and subsequent re-release. Condor activity for the current population is regularly monitored by the USFWS using transmitters that are positioned on individual birds. The data for periods since 2000 were recently compiled and analyzed by the USFWS in conjunction with the TUMSHCP and show that, in contrast with historical reports, condors currently do not utilize lower elevation portions of the Project Area, other than very rare occurrences at the base of the adjacent mountain ranges (Figure 4.4.-5). The TUMSHCP approved by the USFWS in 2013 found that condor movement is topographically constrained to upland areas that produce updrafts, and that although prehistoric condors possibly made use of San Joaquin Valley floor habitat, and that the contemporary condor population appears to largely avoid the Central Valley floor for foraging, probably due to the lack of thermal activity and food sources (USFWS 2013d). Consequently, condor occurrence in the lower elevation portions, particularly any significant distance from the surrounding mountains that generate updrafts used by the species for movement (see Figure 4.4-9) is highly unlikely. In contrast, condor use of Project Area and adjacent locations above 2000 feet, particularly along the southern and eastern boundaries, has been well documented to occur, and is likely to occur to greater extent over time as the population recovers in the wild. To provide a conservative assessment, the EIR assumes that all Project Area land located above 2,000 feet in elevation is high quality condor, and that disturbance in these areas could result in significant impacts to the species without mitigation.

Similarly, the occurrence assessment for the bald eagle is conservatively based on species migration patterns, and the occasional observation of the species in the Tiers 1-5 and the three subareas over time. Bald eagles generally migrate south through the Project Area to southern locations during the winter. High quality wintering locations are characterized by trees for roosting and perennial waterbodies with food sources, including fish. Very few locations, and virtually none within the lower elevations of the Project Area meet these criteria. The limited extent of high quality bad eagle habitat in the region is indicated by the TUMSHCP analysis of the species, in which the USFWS determined that the 141,886-acre Tejon Ranch contained only 518 acres of modeled foraging habitat and 1,438 acres of modeled winter roosting habitat, all located exclusively around Castaic Lake. Castaic Lake is outside of the Project Area to the south. The modeling indicated no other

locations within the ranch representing bald eagle foraging or wintering habitat, although eagles may temporarily use portions of the site during migration. Bald eagles are also not known to breed within the lower or upper elevations of the Project Area, or in the uplands to the south (USFWS 2013d). The Project Area is primarily used by bald eagles for temporary migratory purposes and does not provide high quality breeding, wintering or foraging habitat for the species.

Potential Impacts to Special Status Aquatic Species and Insects

As shown in EIR Table 4.4-81, occurrence assessments were used to analyze potential impacts to the Kern brook lamprey, vernal pool fairy shrimp, longhorn fairy shrimp and the Kern primrose sphinx moth. The Kern brook lamprey could occur in streams in the Eastern Subarea. The vernal pool fairy shrimp could occur in seasonally inundated areas in the Central and Eastern Subareas, and the longhorn fairy shrimp could occur in seasonally inundated areas in the Western and Central Subareas. All of these species occur in pooled areas that remain inundated for a sufficient time period and exhibit suitable pH and other characteristics that support their reproductive cycle. Project impacts to habitats that may contain these species would be significant. As discussed below, mitigation measures require the avoidance (unless fully permitted by state and federal resource agencies) impacts to riparian and aquatic habitats, and potential Project impacts to these species in these habitat types would be reduced to less than significant levels. However, where vernal pool fairy shrimp and longhorn fairy shrimp occur outside of aquatic or riparian habitats, impacts could be significant.

The sphinx moth is known to presently occur in only three general locations, all of which are outside of the Project Area: the Walker Basin on the eastern side of the Sierra range, the Carrizo Plain to the west of the Project Area, and the Cuyama Valley to the west of the Carrizo Plains. In 2007, the USFWS conducted a 5-year review of the species and did not identify oil and gas activity as factor affecting species survival or recovery. The review also indicated that the species has a high probability of recovery because suitable habitat exists on public land in the Carrizo Plain and Cuyama Valley areas that may support the species and pupae can diapause for several years in response to adverse conditions. In addition, the review concluded that species recovery did not conflict with "economical and land development practices within the area of known Kern primrose sphinx moth distribution" (USFWS 2013). Oil field activities were well-established in 2007 along the Temblor Range to the east of the Carrizo Plain, the closest area of known species occupation. Project Area activities are not likely to impact the known locations of, or suitable habitat for the species in the Walker Basin, Carrizo Plain, or Cuyama Valley. It is possible that sandy washes with appropriate vegetation may exist within the Western Subarea that support the moth. Given the limited distribution of the species, impacts in these locations would be significant without mitigation.

Finding:

Without mitigation, the Project has the potential to cause substantial adverse effects, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations by the California Department of Fish and Wildlife or the United States Fish and Wildlife Service. However, these significant adverse impacts will be reduced to a level that is less than significant by implementation of mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential substantial adverse effects, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations by the California Department of Fish and Wildlife or the United States Fish and Wildlife Service. The following mitigation measures will be incorporated into the Project to reduce this impact to a less than significant level:

MM 4.4-1 A qualified biologist shall conduct a biological reconnaissance survey in potential special-status species habitat to advise the project proponent of potential project impacts, potential surveying needs, and advise on the need for focused special status surveys. Early consultation with United States Fish and Wildlife Service and California Department of Fish and Wildlife would confirm the biologist's advice and/or inform project proponents of additional recommendations. Based on the information gathered from the biological reconnaissance survey and any informal consultation with United States Fish and Wildlife Service and California Department of Fish and Wildlife, focused/protocol surveys shall be conducted by a qualified or permitted biologist (whichever is applicable) well in advance of ground disturbing activities to determine the presence/absence of sensitive species protected by state and federal Endangered Species Acts and potential project impacts to those species. The survey shall be conducted in accordance with the most current standard protocol of United States Fish and Wildlife Service and California Department of Fish and Wildlife. The purpose of focused/protocol surveys is to confirm the presence or absence of any species listed as threatened or endangered under the federal Endangered Species Act, threatened or endangered under the California Endangered Species Act, rare or endangered in the California Native Plant Protection Act, or designated as fully-protected in the California Fish and Game Code (collectively, "Protected Species"), and to confirm the presence or absence of any other species considered "sensitive" under California Environmental Quality Act ("Sensitive Species"), and to identify and implement feasible avoidance and minimization measures for such species. The surveys shall be conducted in accordance with all currently-applicable presence and absence survey and/or species protocols established by the United States Fish and Wildlife Service and the California Department of Fish and Wildlife ("Species Protocols"). In the absence of any approved protocols, the survey shall extend for a minimum of 250 feet from all areas where any ground disturbance activities would occur, provided that permission to access has been obtained. As an alternative to individual pre-disturbance surveys for each application, and after consultation with and concurrence by the California Department of Fish and Wildlife and the United States Fish and Wildlife Service, multiple parcels or areas of oil and gas production lands (including lands which may have multiple surface or mineral ownership) may be consolidated for the purpose of more efficiently managing pre-disturbance surveys and determinations regarding the absence of protected species in areas of proposed new ground disturbance activities. A biological monitor shall be present during ground-disturbing activities in project locations that have special-status species habitat or are adjacent to potential special-status species habitat. Within 30 days before any ground-disturbing activities in special-status species habitat, a qualified biologist shall conduct a pre-disturbance survey to record existing conditions of the site, determine if conditions have changed since the

reconnaissance or focused/protocol surveys were conducted, and to determine where sensitive species avoidance buffers will be established.

MM 4.4-2 No incidental take of any species listed as threatened or endangered under the federal Endangered Species Act, threatened or endangered under the California Endangered Species Act, rare or endangered in the California Native Plant Protection Act, or designated as fully-protected in the California Fish and Game Code (Protected Species) may occur unless the incidental take is authorized by applicable state and federal wildlife agencies in the form of a permit or other written authorization, an approved state or federal conservation plan, or in accordance with an approved regional plan such as the Draft Valley Floor Habitat Conservation Plan and/or Natural Community Conservation Plan.

MM 4.4-3 Protective buffers shall be used, where effective and feasible in the opinion and guidance of the qualified biologist, to avoid any unauthorized incidental take of Protected Species, and to minimize any incidental take of Sensitive Species, by separating the planned disturbance area from any locations where biological reconnaissance surveys, previously conducted focused/protocol surveys, or pre-disturbance surveys have detected the presence of Protected Species or Sensitive Species. Protective buffers shall be delineated using brightly colored stakes and/or flagging or similar materials and remain until construction activities are complete, at which time of completion the buffers must be removed. If special-status plant or animal species are found adjacent to the project during biological surveys, protective buffers shall be established around active dens and/or burrows of special-status animal species, or populations of special-status plant species to avoid unauthorized take of protected species as listed in the table below. The protective buffer distance shall be increased if required to avoid unauthorized incidental take of any Protected Species as determined by a qualified biologist. Protective buffer distances and other avoidance measures that may be implemented to avoid impacts to Protected Species or Sensitive Species must be consistent with the United States Fish and Wildlife Service and/or the California Department of Fish and Wildlife, and shall be implemented and overseen by a qualified biologist.

EXHIBIT B

Table: Disturbance Buffers for Sensitive Resources

Sensitive Resource	Buffer Zone from Disturbance (feet)
Potential San Joaquin kit fox den	50
Known San Joaquin kit fox den	100
Natal San Joaquin kit fox den	Contact California Department of Fish & Wildlife, United States Fish & Wildlife Service
Atypical San Joaquin kit fox den	50
Rodent burrows	50
Listed bird species active nests	0.5 mile
Burrowing owl burrow (breeding and non-breeding season)	Pursuant to California Department of Fish & Wildlife guidelines (see Table 4.4-85)
San Joaquin coachwhip, silvery legless lizard, coast horned lizard	30
American badger: Non-maternity dens Maternity dens	 50 200
Special-status plants	50

MM 4.4-4 Occupied burrowing owl burrows shall not be disturbed during the species nesting season (February 1 through August 31). The following distances shall be maintained between all disturbance areas and burrowing owl nesting sites (Table 4.4-85).

Table 4.4-85: Setback Distances for Burrowing Owl Nesting Sites by Level of Proposed Project Impacts

Location		
Nesting sites	Nesting sites	Nesting sites
Time of Year		
April 1–Aug 15	Aug 16–Oct 15	Oct 16–Mar 31

Table 4.4-85: Setback Distances for Burrowing Owl Nesting Sites by Level of Proposed Project Impacts

Project Impact Level		
Low		
656 feet (200 meters)	656 feet (200 meters)	164 feet (50 meters)
Medium		
1,640 feet (500 meters)	656 feet (200 meters)	328 feet (100 meters)
High		
1,640 feet (500 meters)	1,640 feet (500 meters)	1,640 feet (500 meters)

Burrowing owls present in proposed disturbance areas or within 500 feet or as specified under an approved Habitat Conservation Plan (as identified during pre-disturbance surveys) outside of the breeding season (between September 1 and January 31) may be moved away from the disturbance area using passive relocation techniques approved by the California Department of Fish and Wildlife. Passive relocation techniques in the California Department of Fish and Wildlife Staff Report on Burrowing Owl Mitigation Guidelines (California Department of Fish and Game 2012) include installing one-way doors in burrow entrances for 48 hours, to ensure the owl(s) have left the burrow, daily monitoring during the passive relocation period, and collapsing existing burrows to prevent reoccupation. A minimum of one or more weeks will be required to relocate the owl(s) and allow for acclimatization to alternate off-site burrows. Prior to burrow exclusion or eviction, a burrowing owl management plan shall be prepared and approved by the California Department of Fish and Wildlife. Destruction of burrows shall occur only pursuant to a management plan for the species approved by the California Department of Fish and Wildlife; burrow excavation shall be conducted by hand whenever possible.

As an alternative to passive relocation, occupied burrows identified off-site within 500 feet of construction activities may be buffered with hay bales, fencing (e.g. sheltering in place), or as directed by the qualified biologist and the California Department of Fish and Wildlife, to avoid disturbance of burrows.

MM 4.4-5 The pre-disturbance surveys shall determine whether active bat maternity roosts are located in or within 250 feet of any disturbance area. All active bat maternity roosts shall be avoided during breeding periods, including postponing disturbance activities if required, and to the maximum extent feasible at other times. If an active bat maternity roost location cannot feasibly be avoided by disturbance, the United States Fish and Wildlife Service and California Department of Fish and Wildlife must be contacted to identify appropriate impact minimization measures prior to initiating any disturbance that would affect the roost.

MM 4.4-6 Any potential San Joaquin kit fox dens (as defined in United States Fish and Wildlife Service 2011) detected during reconnaissance or focused/protocol surveys shall be reevaluated for species activity no more than 30 days prior to the

commencement of ground disturbance. Potential kit fox dens shall be marked and a 50-foot avoidance buffer shall be delineated using brightly colored stakes and flagging or similar materials to prevent inadvertent damage to the potential den. If a potential den cannot feasibly be avoided, the den may be hand excavated in accordance with the United States Fish and Wildlife Service *Standardized Recommendations for Protection of the Endangered San Joaquin Kit Fox Prior to or During Ground Disturbance* (United States Fish and Wildlife Service 2011). If species activity is detected, the location shall be identified as a "known" kit fox den in accordance with the U.S. Fish and Wildlife Service species guidelines (United States Fish and Wildlife Service 2011). A minimum 100-foot buffer from any disturbance area shall be maintained for known dens and a minimum 500-foot buffer from any disturbance area shall be maintained for natal dens. No excavation of a known or natal den shall occur without prior authorization from the United States Fish and Wildlife Service and the California Department of Fish and Wildlife. For activities occurring on land covered under an approved federal and/or State incidental take authorization, the requirements set forth in those documents shall be implemented. Other standard measures to protect San Joaquin kit fox, including capping pipes, covering trenches, adding exit ramps to excavated areas, shall be implemented in accordance with MM 4.4-15.

MM 4.4-7 Occupied American badger dens detected during pre-disturbance surveys shall be flagged and ground-disturbing activities avoided within 50 feet of the den. Maternity dens shall be avoided and a minimum 200-foot buffer from disturbance shall be maintained during pup-rearing season (February 15 through July 1). Maternity dens must be avoided to the maximum extent feasible. If a maternity den cannot feasibly be avoided, the California Department of Fish and Wildlife must be contacted to identify appropriate impact minimization measures prior to initiating any disturbance that would affect the den, including potential passive relocation by excavation before or after the rearing season.

MM 4.4-8 Pre-disturbance surveys for all sites located above 2,000 feet in elevation, or within 200 feet down gradient from the 2,000-foot elevation contour line, shall specifically survey for any golden eagle nests located within 2 miles of the site. If golden eagle nests are detected by the surveys, the qualified biologist shall conduct a nest-specific viewshed analysis. No disturbance may occur within 0.25 mile, or within 0.5 mile of the viewshed of an active golden eagle nest, unless otherwise authorized by State and federal wildlife agencies. The United States Fish and Wildlife Service and California Department of Fish and Wildlife must be notified prior to the commencement of any disturbance activities within 1 mile of an active golden eagle nest to avoid golden eagle take.

MM 4.4-9 All sites located above 2,000 feet in elevation, or within 200 feet down gradient from the 2,000-foot elevation contour line, shall implement the following measures to avoid and minimize potential adverse impacts to the California condor:

a. The site shall, at all times, be maintained to avoid any trash, debris, food sources and microtrash, such as bottle caps, that could be ingested by or attract California condor. Trash shall be disposed in animal-proof containers as required in BIO 4.4-19.

b. The Worker Environmental Awareness Program described in BIO MM 4.4-18 shall include information about microtrash and potential effects to California condor, and shall prohibit the disposal of trash (and microtrash) on the site of oil and gas activities.

c. If a condor is observed in a proposed construction site, all disturbance activities must immediately cease within 500 feet of the condor until the animal has moved from the site. If condor occurrence persists, the United States Fish and Wildlife Service and the California Department of Fish and Wildlife must be contacted to identify appropriate avoidance measures prior to initiating or resuming any disturbance activity.

d. All condor observations shall be reported within 24 hours to the United States Fish and Wildlife Service and the California Department of Fish and Wildlife.

e. All tanks, liquid storage facilities, and any open area containing water or other liquid materials, including drilling sumps, must be covered or otherwise shielded in a manner that prevents condor intrusion and potential entrapment.

f. No overhead transmission lines may be used at the site without the prior approval of the United States Fish and Wildlife Service and the California Department of Fish and Wildlife.

MM 4.4-10 Pre-disturbance surveys for active bird nests must be conducted no more than 10 days prior to the commencement of disturbance. Surveys shall follow United States Fish and Wildlife and California Department of Fish and Wildlife guidance and/or protocols, as applicable. If no active nests or nesting birds are identified, then Project construction activities may proceed and no further mitigation measures for nesting birds are required. If active nest(s) are identified, the active nest(s) should be continuously surveyed for the first 24 hours after detection, to establish a behavioral baseline prior to any construction-related activities. Once construction commences, all nests shall be continuously monitored to detect any behavioral changes as a result of the Project (i.e., nest avoidance or abandonment). If behavioral changes are observed, the work causing that change should cease and the California Department of Fish and Wildlife and the United States Fish and Wildlife should be consulted for additional avoidance and minimization measures. If continuous monitoring of identified nests by a qualified wildlife biologist is not feasible, a minimum no-disturbance buffer of 250 feet will be established around active nests and a 500-foot no-disturbance buffer around the nests of raptors until the breeding season has ended, or until a qualified biologist has determined that the birds have fledged and are no longer reliant upon the nest or parental care for survival, and any adult birds are no longer occupying the nest. Variance from these no-disturbance buffers may be implemented a qualified biologist concludes that work within the buffer area would not cause nest avoidance or abandonment (e.g., when the disturbance area would be concealed from a nest site by topography). The California Department of Fish and Wildlife and the United States Fish and Wildlife must be notified in advance of implementing of a variance in the no-disturbance buffer.

MM 4.4-11 The following measures will be implemented to avoid take of blunt-nosed leopard lizard and to ensure protection of these animals during Project activities:

a. Project activities will avoid all potential burrows that may be occupied by blunt-nosed leopard lizards. Suitable burrows within and adjacent to potential habitat for the species should be avoided by a minimum distance of 50-feet in all areas where ground-disturbing Project activities will occur.

b. No more than one year prior to ground disturbing activities, focused surveys following current California Department of Fish and Wildlife and United States Fish and Wildlife protocols for detection of this species or other methods approved by both agencies shall be conducted in all potential blunt-nosed leopard lizard habitat within the work site and a 250-foot buffer area. If no individual blunt-nosed leopard lizards are observed during focused surveys, and surveys are current (e.g., completed in the same calendar year), then Project activities may proceed.

c. If blunt-nosed leopard lizards are detected during focused surveys, a blunt-nosed leopard lizard avoidance plan shall be prepared for the Project that will result in avoidance of incidental take of this species unless take is separately authorized under a Natural Communities Conservation Plan and appropriate federal authorization is obtained. At a minimum, the blunt-nosed leopard lizard avoidance plan shall be provided to the California Department of Fish and Wildlife and the County, and shall contain the following elements:

    1. A Worker Environmental Awareness Program shall be implemented for all construction personnel before construction begins (see MM 4.4-18).

    2. During periods that are optimal for blunt-nosed leopard lizard activity (early spring through late fall), a qualified biologist will be present during all ground disturbing activities. The qualified biologist will check the Project site(s) and access route(s) daily during the blunt-nosed leopard lizard active season to determine presence or absence of lizards in or near the work areas. Monitoring by a qualified biologist is not required during periods of inactivity (the winter season).

    3. All open trenches or excavations shall be covered at the end of each workday or protected with the use of exclusion fencing to prevent wildlife entrapment. If an excavation is too large to cover, escape ramps shall be installed at an incline ratio of no greater than 2:1. All trenches and pipes shall be inspected for the presence of wildlife each day prior to the commencement of work. If blunt-nosed leopard lizards are observed at the work site during construction, construction shall cease within a 250-foot radius and the United States Fish and Wildlife Service and the California Department of Fish and Wildlife shall be consulted to determine what additional measures would be necessary to prevent take of this species.

    4. Offsite locations where blunt-nosed leopard lizards have been observed or are likely to occur shall be clearly marked to prevent workers from driving off the road and to prevent inadvertent destruction of burrows. Barriers, such as exclusionary fencing may be installed. All construction equipment and construction personnel vehicles will be checked prior to moving to ensure no blunt-nosed leopard lizard are under equipment/vehicles.

5. A speed limit of 10 miles per hour shall be posted and observed within 0.25 miles of any reported blunt-nosed leopard lizard observation.

6. Construction activities shall avoid burrows that may be used by blunt-nosed leopard lizards. Any location of proposed construction activity with potential to collapse or block burrows (i.e., stockpile storage, parking areas, staging areas, trenches) will be identified prior to construction in the blunt-nosed leopard lizard avoidance plan and approved by the qualified biologist. The qualified biologist may allow certain activities in burrow areas if the combination of soil hardness and activity impact is not expected to collapse burrows and no blunt-nosed leopard lizards have been found during pre-Project surveys in the impact area.

7. All individual blunt-nosed leopard lizards observed above-ground will be avoided. Any individual blunt-nosed leopard lizard that may enter the Project site(s) would be allowed to leave unobstructed, and on its own accord. If a blunt-nosed leopard lizard is detected during biological monitoring or observed at any other point, the California Department of Fish and Wildlife and the United States Fish and Wildlife Service shall be notified to determine what additional measures would be necessary to prevent take of the species.

MM 4.4-12 The Applicant shall comply with the following:

a. Plant surveys for Protected Species and Sensitive Species must be completed by a qualified biologist during the appropriate blooming periods for species identification and detection. Plant surveys shall be conducted in accordance with all applicable protocols established by the United States Fish and Wildlife Service and the California Department of Fish and Wildlife for particular plant species ("Plant Survey Protocol"), and shall extend 50 feet from areas where any new disturbance would occur unless a greater survey distance is specified in the Plant Survey Protocol. All detected plant populations of Protected Species and Sensitive Species shall be identified in the field during the surveys with temporary flags or other appropriate materials to avoid and minimize impacts to the plant populations from any disturbance activities.

b. No incidental take or relocation of any plant listed under the federal Endangered Species Act, the California Endangered Species Act, or the California Native Plant Protection Act may occur unless the incidental take is authorized by the United States Fish and Wildlife Service and/or the California Department of Fish and Wildlife in a permit or other authorization, or in an approved Habitat Conservation Plan or Natural Communities Conservation Plan. If focused plan surveys detect the presence of any listed plant, the plant populations shall be buffered from disturbance activities by implementing applicable impact avoidance protocols established by the United States Fish and Wildlife Service and/or the California Department of Fish and Wildlife unless incidental take authority is obtained. Projects covered under incidental take authority shall conduct activities in accordance with the take authorization. The California Department of Fish and Wildlife may be contacted to determine the appropriate buffer required to prevent incidental take of a listed plant if avoidance protocols have not been established for the

species. The qualified biologist shall confirm that all applicable listed plant buffers have been implemented prior to the commencement of any disturbance activity.

c. If any non-listed sensitive plant species are identified that may be impacted by new ground disturbing activities, populations must be avoided by a 50-foot buffer.

MM 4.4-14 A Worker Environmental Awareness Program shall be developed and implemented for all personnel that could access the site prior to commencing any disturbance activities. The program shall consist of an on-site or center presentation that will describe the locations and types of sensitive plant, wildlife, and sensitive natural communities (collectively, "Biological Resources") on and near the site, an overview of the laws and regulations governing the protection of Biological Resources, the reasons for protecting the Biological Resources, the specific protection and avoidance measures that are applicable to the site, and the identity of designated points of contact should questions or issues arise, including the qualified biologist. The program shall provide training to recognize, avoid and report to applicable qualified biologists any Biological Resources on the site.

a. The Worker Environmental Awareness Program shall emphasize the need to avoid contact with onsite wildlife, and avoid entry into areas where Biological Resources have been identified based on pre-disturbance field surveys and to implement the buffer avoidance or other protection measures established by the United States Fish and Wildlife Service shall be identified California Department of Fish and Wildlife or required by the Biological Resource mitigation measures. The training shall emphasize the importance of not feeding or domesticating wildlife and the need to avoid any trash, microtrash, or potential food disposal onsite except in animal-proof containers emptied daily to avoid attracting, or causing adverse impacts to special status wildlife.

b. All onsite personnel must sign a statement verifying that they have completed the Worker Environmental Awareness Program, and that they understand and agree to implement the biological requirements for the worksite. If signed employee statements are not available, documentation may be provided by Worker Environmental Awareness Program training records, which shall be kept by the Applicant for a minimum of 5 years. Each Applicant shall maintain a list of all persons who have completed the training program, and shall provide the list to the County or to state and federal wildlife agency representatives upon request.

MM 4.4-15 The following additional measures shall be implemented to avoid and minimize potential significant adverse impacts to Protected and Sensitive Species:

a. All vehicles shall observe a 20-mile-per-hour speed limit in all areas of disturbance and on unpaved roads unless otherwise posted. Off-road traffic outside of designated access routes is prohibited. Speed limit signs shall be posted in visible locations at the point of site entry and at regular intervals on all unpaved access roads.

b. All disturbance activities, except emergency situations or drilling that may require continuous operations, shall only occur during daylight hours. Night time disturbance activity for drilling purposes shall use directed lighting, shielding methods, or reduced lumen intensity to avoid unnecessary visual disturbance to wildlife and to comply with applicable lighting mitigation measures.

c. All food-related trash items and all forms of microtrash, such as wrappers, cans, bottles, bottle tops, and food scraps shall be disposed of in closed, animal proof containers and removed daily from the site.

d. Excavations, spoils piles, access roadways, and parking and staging areas shall subject to dust control as set forth in the dust control mitigation measures.

e. The use of herbicides for vegetation control shall be restricted to those approved by the United States Fish and Wildlife Service and the California Department of Fish and Wildlife. No rodenticides shall be used on any site unless approved by the United States Fish and Wildlife Service, and the California Department of Fish and Wildlife, and shall observe label and other restrictions mandated by the United States Environmental Protection Agency, California Department of Food and Agriculture, and state and federal laws and regulations. For split estates, no herbicides for vegetation control may occur in Tier 2 areas without surface owner approval.

f. No plants or wildlife shall be collected, taken, or removed from the site or any adjacent locations except as necessary for Project-related vegetation removal or wildlife relocation by a qualified biologist and subject to all applicable permits and authorizations.

g. All open trenches or excavations shall be covered at the end of each workday to prevent wildlife entrapment. If an excavation is too large to cover, escape ramps shall be installed at an incline ratio of no greater than 2:1. All trenches and pipes shall be inspected for the presence of wildlife each day prior to the commencement of work.

h. To enable San Joaquin kit foxes and other wildlife to pass through the Project site, any perimeter fencing shall include a 4- to 8-inch opening between the fence mesh and the ground or the fence shall be raised 4 inches above the ground except blunt-nosed leopard lizard exclusion fencing. The bottom of the fence fabric shall be knuckled (wrapped back to form a smooth edge) to protect wildlife.

i. All vertical tubes used in Project construction and chain link fencing poles, shall be temporarily or permanently capped to avoid the entrapment and death of special-status wildlife and birds. All pipes 1.5 inches or greater in diameter stored overnight on a project location must have end caps or other physical barriers that prevent wildlife from entering the pipe.

j. All dead or injured special status wildlife shall be left in place and reported to the United States Fish and Wildlife Service and the California Department of Fish and Wildlife within 48 hours of discovery for rescue or salvage.

Discovery of state or federal listed species that are injured or dead shall also be managed consistent with regulatory requirements, including being reported immediately via telephone and within 24 hours in writing, and with a copy to Kern County Planning and Community Development.

k. All drilling installations and operations will comply at all times with the applicable federal, State, county, and local law ordinances and regulations.

l. All activity shall use previously disturbed areas to the maximum extent feasible to minimize the amount of new disturbance.

m. All concrete and asphalt debris should be removed from the site for recycling or proper disposal.

n. No vehicles or construction equipment shall be parked within a wetland or waterbody/dry wash.

o. Tracked vehicles and other construction equipment must be washed or maintained to be weed-free prior to entering and working within areas of new disturbance.

p. All washing of trucks, paint, equipment, or similar activities should occur in areas where runoff is fully contained for collection and offsite disposal. Wash water may not be discharged from the site and shall be located at least 100 feet from any water body, or sensitive Biological Resources.

q. Locate all extra work areas (such as staging areas and additional spoil storage areas) at least 50 feet away from wetland boundaries or waterbody, except where the adjacent upland consists of cultivated or rotated cropland or other disturbed land.

r. All areas that must be avoided as result of the pre-disturbance surveys, and areas where new disturbance will occur, shall be clearly delineated by fencing or staking and flagging and/or rope or cord.

s. No firearms shall be allowed on any site.

t. No pets shall be allowed on any site.

u. No smoking may occur except in designated areas.

v. If ground disturbance is intended to be temporary and does not occur on cultivated and crop lands, perform topsoil segregation during construction activities to preserve the seed bank for restoration efforts. Store the segregated topsoil separate from the subsoil and restore segregated topsoil to its original location.

MM 4.4-16 Ground disturbance shall be mitigated at a 1.0 to 1.0 ratio (one-acre of new disturbance shall require one-acre of mitigation) except in Tier 1 areas that contain existing disturbance of 70% or greater which shall be mitigated at a 1.0 to 0.5 ratio (one-acre of new disturbance shall require one-half acre of mitigation), for the land

included in the Site Plan. This compensatory mitigation requirement does not apply to construction on ground for which compensatory mitigation has already been provided, or on ground that has been previously disturbed (e.g., cleared of vegetation for other oil and gas extraction uses, existing unpaved roads, and existing unvegetated well pads). Ground disturbance activities that are authorized by permits or other written authorizations approved by the United States Fish and Wildlife Service and the California Department of Fish and Wildlife, which include avoidance and compensatory mitigation acreage requirements, may be used to satisfy this County compensatory mitigation ratio. Compensatory mitigation shall be required for the actual acreage of ground disturbance documented during the site plan review and completion process. New disturbance mitigation may be satisfied by one or a combination of the following measures:

a. The recordation of a conservation easement or similar permanent, long-term conservation management agreement in a form acceptable to the County for land within the Project Area on land that has mitigation value. The easement lands may be owned by an Applicant or a third party under contract with an Applicant. Larger land areas may be placed under a conservation easement or similar agreement, and an Applicant may "draw down" the conserved land as needed to satisfy the acreage mitigation requirements for multiple site plan review conformity permits or other authorizations from the County for oil and gas activities.

b. Acquisition of land preservation credits from a mitigation bank located within the Project Area which is owned by the County, on other lands approved by the County, or on lands approved for mitigation or conservation purposes by the United States Fish and Wildlife Service or the California Department of Fish and Wildlife.

c. Removal of legacy oil and gas equipment, inclusive of compliance with applicable legal requirements (e.g., well plugging and abandonment requirements under state or federal regulations), restoration of the surface grade to be consistent with surrounding lands, complete a reseeding effort using native species, and notification of the site owner (if not the Applicant) of the completion of the removal and grading restoration work.

d. Enhancement or restoration of existing habitat on lands already subject to a conservation easement or similar agreement, or which become subject to a conservation easement or similar agreement subsequent to the certification of this Environmental Impact Report, provided that such activities are covered in a permit or authorization, conservation plan, Habitat Conservation Plan, or Natural Community Conservation Plan, approved by the United States Fish and Wildlife Service or the California Department of Fish and Wildlife.

e. Payment of a biological resources mitigation fee for the acquisition and management of mitigation lands, legacy equipment removal, and/or land enhancement already subject to conservation easements or a similar agreements under the terms of any biological resource mitigation program that is adopted by Kern County and approved by the United States Fish and Wildlife Service or the California Department of Fish and Wildlife. The County shall coordinate with the United States Fish and Wildlife Service or

the California Department of Fish and Wildlife to identify priority conservation areas and potential conservation partners and funding sources to increase the efficiency and effectiveness of mitigation fee expenditures.

Significant Effect:

Without mitigation, the Project has the potential to have a substantial adverse effect on any riparian or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Wildlife or the United States Fish and Wildlife Service (Impact 4.4-2).

Description of Specific Impact:

The location of sensitive natural communities in the Project Area is shown in EIR Figure 4.4-4. As discussed in EIR Section 4.4.2, Environmental Setting, the sensitive natural communities identified within the Project Area include wetlands, water and other riparian habitat that are subject to state or federal permit requirements prior to physical disturbance. EIR Tables 4.4-86 and 4.4-87 indicate that the largest extent of potential impacts could occur to the great valley mesquite scrub, desert scrub, desert wash, great valley cottonwood riparian forest, and native valley foothill riparian sensitive natural communities. The great valley mesquite scrub community is primarily located in Tier 1 of the Central Subarea, the location where most of the future impacts would occur in that location. Potential impacts to great valley mesquite scrub could be over 3% of the total acreage in the Project Area per year, and 83.5% of the total acreage in the Project Area over 25 years. The desert scrub community is primarily located in the Western Subarea and occurs in Tier 1 locations where most of the future Project Area disturbance is projected to occur. Potential impacts to desert scrub could be about 1.1% of the total acreage in the Project Area per year, and 28.6% of the total acreage in the Project Area over 25 years. The desert wash community primarily occurs in Tier 1 of the Western Subarea, and impacts to total acreage in the Project Area could be 0.84% per year and 21.03% over 25 years. The great valley cottonwood riparian forest community primarily occurs in the Eastern Subarea, including Tier 1 locations, and impacts to total acreage in the Project Area could be 0.31% per year and 7.9% over 25 years. Potential impacts to the native valley foothill riparian community would primarily occur in Tier 1 areas of the Eastern Subarea and, to a lesser extent, the Western Subarea. Potential impacts to the native valley foothill riparian community could be about 0.21% of the total acreage in the Project Area per year, and 5.2% of the total acreage in the Project Area over 25 years.

Potential impacts to the valley saltbush scrub, mixed chaparral, coastal and valley freshwater marsh, vernal pool, stabilized interior dunes, valley oak woodland, valley needlegrass grassland, montane hardwood, valley sacaton grassland, valley sink scrub and alkali seep natural communities would range from 0.01% of the total acreage in the Project Area (valley sink scrub and alkali seep) to 0.7% (valley saltbush scrub and mixed chaparral) per year. Over 25 years, potential impacts to the total acreage of these communities in the Project Area could range from 0.29% (alkali seep) to 1.7% (valley saltbush scrub). Impacts to sensitive natural communities and riparian habitats in the Project Area would be significant without mitigation.

Finding:

Without mitigation, the Project has the potential to have a substantial adverse effect on any riparian or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Wildlife or the United States Fish and Wildlife Service.

These impacts will be reduced to a level that is less than significant with implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential substantial adverse effect on any riparian or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Wildlife or the United States Fish and Wildlife Service. The following mitigation measures, along with **MM 4.4-1** through **MM 4.4-16**, will be incorporated into the Project to reduce this impact to a less than significant level:

MM 4.4-17 Pre-disturbance surveys shall be conducted by a qualified biologist during the appropriate periods for detecting Sensitive Natural Communities that could occur within the Project Area. The surveys shall be completed consistent with applicable protocols approved by the United States Fish and Wildlife Service and/or the California Department of Fish and Game, including the Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities (California Department of Fish and Wildlife 2009). The qualified person shall map and identify all sensitive natural communities, including riparian communities that occur in or within 100 feet of any new disturbance area. The site plan for the proposed activity shall identify waters, wetlands, resources subject to section 1600 of the CFGC and other riparian habitats that occur in and within 100 feet of the disturbance area.

MM 4.4-18 No land disturbance activity in any Sensitive Natural Community that requires a state or federal permit, including state or federally regulated wetlands and waters, shall occur unless the activity is specifically authorized by the issuance of permits or approvals as required by state and federal law. This provision is not intended to restrict survey activities or restrict permit approvals for such disturbance activities. However, no new wells, tanks, sumps or ponds shall be constructed within 50 feet of federal or state waters or wetlands.

Significant Effect:

Without mitigation, the Project has the potential to have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal poos, costal, etc.) through direct removal, filing, hydrological interruption or other means (Impact 4.4-3).

Description of Specific Impact:

As discussed in EIR Section 4.4.2, Environmental Setting, the occurrence of wetlands and waters within the Project Area was estimated by using spatial data from the NWI and the NHD. EIR Tables 4.4-88 and 4.4-89 summarize the acreage of potentially jurisdictional wetlands and linear feet of waters in the Project Area estimated from the available databases. As described in the EIR's discussion of Impact 4.4-2, federally jurisdictional wetlands, and other waters and riparian habitats that are subject to state or federal jurisdiction, are included in the analysis of the sensitive natural communities within the Project Area. Any oil and gas activity that could be authorized under this Project that occurred in wetlands or other water would have a significant impact.

Finding:

Without mitigation, the Project has the potential to have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal poos, costal, etc.) through direct removal, filing, hydrological interruption or other means. These impacts will be reduced to a level that is less than significant with implementation of the mitigation measures described in section II(4) of these findings related to Biological Resources. Other mitigation measures identified in the EIR would further reduce potential state or federally jurisdictional wetland and waters, including the dust control mitigation measures described in section II(3) of these findings related to Air Quality, the spill and hazardous material avoidance and containment mitigation measures described in section II(8) of these findings related to Hazards and Hazardous Materials, and the surface and subsurface water quality and hydrology mitigation measures described in section II(9) of these findings related to Hydrology and Water Quality.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal poos, costal, etc.) through direct removal, filing, hydrological interruption or other means. The mitigation measures described in section II(4) of these findings related to Biological Resources, will be incorporated into the Project to reduce this impact to a less than significant level. These impacts will be further reduced through implementation of the dust control mitigation measures described in section II(3) of these findings related to Air Quality, the spill and hazardous material avoidance and containment mitigation measures described in section II(8) of these findings related to Hazards and Hazardous Materials, and the surface and subsurface water quality and hydrology mitigation measures described in section II(9) of these findings related to Hydrology and Water Quality, which will also be incorporated into the Project.

Significant Effect:

Without mitigation, the Project has the potential to interfere substantially with the movement of any native resident or migratory fish or wildlife species, or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites (Impact 4.4-4).

Description of Specific Impact:

As discussed in EIR Section 4.4.2, Environmental Setting, and shown in EIR Figure 4.4-11, the generalized patterns of wildlife movement in and through the Project Area have been characterized in certain studies. The length and width of these corridors have not been precisely determined and most correspond with major geographic features that are likely to facilitate species movement, including the Kern River and Poso Creek channels, and along the base of the mountain ranges that border the Project Area to the east, south and west.

Oil and gas exploration and production activities are more porous and maintain wildlife movement to a greater extent than urban development, and, depending on species requirements, agricultural uses that modify surface vegetation, soils and irrigation. A recent study conducted in 2008-2010 for the BLM found that species assemblages in saltbush scrub habitat remain relatively intact in oilfield locations with up to 70% disturbance in Kern County. This result indicates that even moderately developed oilfields as documented in the 2011 survey would retain the capacity for wildlife movement. However, oilfield development with more than 70% disturbance could reduce

species movement, and potential impacts to wildlife movement in higher density locations would be significantly impacted by Project activities without mitigation.

Finding:

Without mitigation, the Project has the potential to interfere substantially with the movement of any native resident or migratory fish or wildlife species, or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites. These impacts will be reduced to a level that is less than significant with implementation of the mitigation measures described in section II(4) of these findings related to Biological Resources. Other mitigation measures identified in the EIR would further reduce potential state or federally jurisdictional wetland and waters, including the dust control mitigation measures described in section II(3) of these findings related to Air Quality, the spill and hazardous material avoidance and containment mitigation measures described in section II(8) of these findings related to Hazards and Hazardous Materials, and the surface and subsurface water quality and hydrology mitigation measures described in section II(9) of these findings related to Hydrology and Water Quality.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to interfere substantially with the movement of any native resident or migratory fish or wildlife species, or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites. The mitigation measures described in section II(4) of these findings related to Biological Resources, will be incorporated into the Project to reduce this impact to a less than significant level. These impacts will be further reduced through implementation of the dust control mitigation measures described in section II(3) of these findings related to Air Quality, the spill and hazardous material avoidance and containment mitigation measures described in section II(8) of these findings related to Hazards and Hazardous Materials, and the surface and subsurface water quality and hydrology mitigation measures described in section II(9) of these findings related to Hydrology and Water Quality, which will also be incorporated into the Project.

Significant Effect:

Without mitigation, the Project has the potential to conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance (Impact 4.4-5).

Description of Specific Impact:

The Kern County General Plan and other ordinances and the Metropolitan Bakersfield General Plan include policies that protect several biological resources as summarized in Section 4.4.3, Regulatory Setting, including special status species, sensitive natural communities, wetlands, waters and riparian habitats and the Kern River corridor. As discussed in Impacts 4.4-1 through 4.4-4, potential impacts to these resources would be mitigated to less than significant levels.

Kern County has adopted oak tree conservation policies and implementation measures in Section 1.10.10 of the Kern County General Plan Land Use, Open Space and Conservation Element. These policies and measures generally require avoidance of oak tree impacts, and the implementation of other protection measures for sites that have more than 10% oak tree cover (oak woodlands) and sites that have less than 10% oak tree cover. Impacts to oak trees are not anticipated to occur from oil and gas exploration and development activity because oak trees can generally be avoided by modifying the disturbance envelope. As shown in Table 4.4-86, the valley oak woodland

community occurs within the Project Area and could be subject to 3 acres of impacts per year, mainly in Tier 2 locations in the Eastern Subarea (about 2 acres per year) and the Western Subarea (about 1 acre per year).

Finding:

Without mitigation, the Project has the potential to conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance. These impacts will be reduced to a level that is less than significant with implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance. The following mitigation measure will be incorporated into the Project to reduce this impact to a less than significant level:

MM 4.4-19 In the event that new disturbance would occur at a site within an oak woodland area as defined in Section 1.10.10 of the Kern County General Plan Land Use, Open Space and Conservation Element (10% or greater oak tree cover), the Applicant shall comply with the minimum 30% canopy retention standard in Section 1.10.10 KK (a). Impacts to oak trees in other locations, and in locations that meet the criteria for an oak woodland area, shall be avoided to the maximum extent practicable, including modification of the disturbance area, if feasible, to avoid existing oak trees within a site.

Significant Effect:

Without mitigation, the Project has the potential to conflict with the provisions of an adopted habitat conservation plan, natural community conservation plan, or other approved local, regional, or state habitat conservation plan (Impact 4.4-6).

Description of Specific Impact:

As discussed in EIR Section 4.4.3, Regulatory Setting, the following HCPs have been adopted within, include portions of or are located in areas adjacent to the Project Area: Freeport-McMoRan Oil & Gas HCP; Aera Coles Levee HCP (previously Arco Western Energy) HCP; Chevron Pipeline HCP; California Aqueduct - San Joaquin Field Division HCP; Kern County Waste Facilities HCP; Pacific Gas and Electric (PG&E) San Joaquin Valley Operations and Maintenance Program HCP; TUMSHCP; Metropolitan Bakersfield HCP; CRC Non-Unit HCP. Moreover, three HCPs have been proposed but have not yet been approved for the Project Area: VFHCP; Chevron North American Exploration and Production LHCP; California Resources Corporation EHHCP. The proposed Zoning Ordinance amendment would not conflict with any adopted HCP in or adjacent to the Project Area and would also be consistent with the proposed Chevron LHCP and California Resources Corporation EHHCP. The VFHCP would cover activities from multiple sectors, including most of the oil and gas production activities included in the Project, within the Valley Floor portion of the Project Area. Kern County is the lead Applicant for the VFHCP. Kern County and other stakeholders are also considering the potential for completing a Natural Communities Conservation Plan (NCCP) under California law, alongside a federal HCP. There is no pending draft HCP or proposed NCCP, and thus consistency with these plans cannot be evaluated in detail

at this time. It is anticipated, however, that a VFHCP/NCCP would be consistent with, or impose more stringent requirements than, the mitigation measures, procedural and substantive requirements included in this Project and EIR. However, the EIR conservatively determines that potential impacts related to conflicts with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan could be significant.

Finding:

Without mitigation, the Project has the potential to conflict with the provisions of an adopted habitat conservation plan, natural community conservation plan, or other approved local, regional, or state habitat conservation plan. This impact will be reduced to a level that is less than significant with implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to conflict with the provisions of an adopted habitat conservation plan, natural community conservation plan, or other approved local, regional, or state habitat conservation plan. The following mitigation measure will be incorporated into the Project to reduce this impact to a less than significant level:

MM 4.4-20 Applicants shall fund through the Site Conformity Review administrative fee, preparation by Kern County of, an annual report describing the Project's ground disturbance acreage, and the acreage of compensatory mitigation lands, in each sub-area. For Covered Activities within areas included in proposed HCPs, the requirements of MM 4.4-1 – 4.4-19 may be superseded by specific requirements imposed by USFWS as part of approval of a federal incidental take permit (e.g., under Section 10 or Section 7 of the Endangered Species Act), or by CDFW as part of approval of a state incidental take permit (e.g., under the Fish and Game Code), provided that USFWS (in the case of a federal incidental take permit) or CDFW (in the case of a state incidental take permit) concludes in writing that such requirements provide equivalent or greater protection than MM 4.4-1 – 4.4-19 (or any subset thereof).

C. Environmental Effects of the Project That Cannot Be Mitigated to a Level Less Than Significant.

None.

D. Cumulative Environmental Effects of the Proposed Project That Will Have a Less Than Significant Impact on the Environment.

None.

E. Cumulative Environmental Effects of the Proposed Project That Will Have a Significant Impact on the Environment.

Significant Effect:

The Project will make a considerable contribution to significant cumulative biological resources impacts (Impact 4.4-7).

Description of Specific Impact:

Future oil and gas exploration and production activities related to the proposed Zoning Ordinance amendment could contribute to a significant cumulative impact on Project Area biological resources because future use and development of federal, state and incorporated urban lands are not within the County's jurisdiction or control. Future land uses and development could affect biological resources in each of these jurisdictions and would be undertaken as independent actions with associated impacts, avoidance and minimization requirements, and mitigation, if required, under applicable federal, state, regional and local agency law.

Finding:

The Project will make a considerable contribution to significant cumulative biological resources impacts. All feasible and reasonable changes or alterations have been required in, or incorporated into, the Project that substantially reduce this potentially significant effect identified in the EIR, though not to a less than significant level. Thus, this impact is significant and unavoidable.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's contribution to unavoidable cumulative environmental impacts to biological resources. There are no feasible and reasonable mitigation measures that can reduce the Project's contribution to cumulative impacts on biological resources in the Project Area to a level that is less than significant. However, implementation of Mitigation Measures 4.4-1 through 4.4-20 will reduce these Project impacts to the greatest extent possible. These cumulative impacts will be further reduced through implementation of the dust control mitigation measures described in section II(3) of these findings related to Air Quality, the spill and hazardous material avoidance and containment mitigation measures described in section II(8) of these findings related to Hazards and Hazardous Materials, and the surface and subsurface water quality and hydrology mitigation measures described in section II(9) of these findings related to Hydrology and Water Quality, which will also be incorporated into the Project.

5. CULTURAL RESOURCES

A. Environmental Effects of the Project Found to Have No Impact on the Environment, or Have a Less Than Significant Impact on the Environment.

None.

B. Environmental Effects of the Project That Are Potentially Significant, but That Can Be Mitigated to Less Than Significant Levels.

Significant Effect:

Without mitigation, the Project has the potential to cause a substantial adverse change in the significance of an historical resource as defined in CEQA Guidelines Section 15064.5 (Impact 4.5-1).

Description of Specific Impact:

Future oil and gas exploration and production activities that would be authorized under the Project may adversely change the significance of historic resources, primarily during construction, by damaging the resource so that it no longer has integrity and is no longer representative of its period of significance. Potential construction impacts include damage to, or destruction of, historic resources from earthmoving, including vibration damage.

Finding:

Without mitigation, the Project has the potential to cause a substantial adverse change in the significance of an historical resource as defined in CEQA Guidelines Section 15064.5. These impacts will be reduced to a level that is less than significant with implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to cause a substantial adverse change in the significance of an historical resource as defined in CEQA Guidelines Section 15064.5. The following mitigation measure will be incorporated into the Project to reduce this impact to a less than significant level.

MM 4.5-1 Prior to initiating ground disturbance activities for an activity for which a conformity review is required, the Applicant shall:

a. Provide an archival records search completed by a qualified archaeologist. This shall include an examination of the California Historical Resources Information Files at the Southern San Joaquin Valley Information Center, California State University, Bakersfield, and a search of the Native American Heritage Commission Sacred Lands Files, Sacramento. The Applicant may rely on a previously performed records search for subsequent ground disturbing activities.

b. If an application location has been previously surveyed and no cultural resources have been recorded on it, no further cultural resources studies shall be required.

c. Implement either:

1. If a site plan includes land that has experienced 100% previous ground-surface disturbance, or is within a section with 300 or more existing oil wells or other agricultural, industrial or urban uses, and the records searches indicate that no cultural or Native American resources are known on it, no further cultural resources studies shall be required. All other application locations shall be subject to intensive (100%) pedestrian ground-surface survey (Phase I survey/Class III inventory) by qualified archaeologists. The Applicant may rely on a previously performed ground surface survey for subsequent ground disturbing activities; or

2. If an application location has not been previously surveyed based on the records search information, an intensive (100%) pedestrian ground-surface survey (Phase I survey/Class III inventory) by qualified archaeologists shall be required.

d. All prehistoric/Native American archaeological sites, whether identified during the records searches or during the intensive survey, shall be demarcated by a qualified archaeologist, fenced by the Applicant, and preserved in place.

e. Historical (Euro-American) archaeological sites that are potentially eligible for listing in the National Register of Historic Places shall be evaluated by a qualified archaeologist and must meet the requirements of the National Historic Preservation Act of 1966 in order to qualify. Qualifying sites, structures and equipment that are identified during the records search or field survey shall be fenced and preserved in open-space, removed and curated, or treated using appropriate data recovery procedures.

f. Historical (Euro-American) archaeological site types relating to oil and gas activities that have been determined Not Significant/Unique shall require no archaeological study or treatment.

g. All oil and gas industry employees conducting work in the area identified on the Conformity Site Plan shall complete Worker Environmental Awareness Program training including training dedicated to cultural resources protection.

Significant Effect:

Without mitigation, the Project has the potential to cause a substantial adverse change in the significance of an archaeological resource as defined in CEQA Guidelines Section 15064.5 (Impact 4.5-2).

Description of Specific Impact:

Future oil and gas exploration and production activities that would be authorized under the Project may adversely change the significance of archaeological resources, primarily during construction, but also during operations. Potential construction impacts include damage to, or destruction of, archaeological resources from earthmoving and unauthorized collecting. Potential impacts during operations include unauthorized collecting from surface historic trash scatters, but other impacts are not anticipated. Archaeological resources include both prehistoric and historic period sites.

Finding:

Without mitigation, the Project has the potential to cause a substantial adverse change in the significance of an archaeological resource as defined in CEQA Guidelines Section 15064.5. These impacts will be reduced to a level that is less than significant with implementation of the mitigation measures described below.

Brief Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to cause a substantial adverse change in the significance of an archaeological resource as defined in CEQA Guidelines Section 15064.5. Mitigation measure **MM 4.5-1**, described above, will be incorporated into the Project and its implementation will reduce this impact to a less than significant level.

Significant Effect:

Without mitigation, the Project has the potential to directly or indirectly destroy a unique paleontological resource or site or unique geologic feature (Impact 4.5-3).

Description of Specific Impact:

Future oil and gas exploration and production activities that would be authorized under the Project have the potential to adversely impact unique paleontological resources. Adverse impacts may occur to paleontological resources due to grading, other earth disturbance, grubbing, vehicular off-road travel, and other activities that disturb the ground surface, including the demolition of existing structures, facilities, and equipment.

Finding:

Without mitigation, the Project has the potential to directly or indirectly destroy a unique paleontological resource or site or unique geologic feature. These impacts will be reduced to a level that is less than significant with implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to directly or indirectly destroy a unique paleontological resource or site or unique geologic feature. The following mitigation measures will be incorporated into the Project to lessen the impacts to those resources to a level that is less than significant.

MM 4.5-2 As part of any Worker Environmental Awareness Program training, all construction personnel shall be trained regarding the recognition of possible buried paleontological resources and protection of paleontological resources during construction, prior to the initiation of construction or ground-disturbing activities. Training shall inform construction personnel of the procedures to be followed upon the discovery of paleontological materials. All personnel shall be instructed that unauthorized collection or disturbance of fossils is unlawful.

MM 4.5-3 All permits for new wells that use Enhanced Oil Recovery or Well Stimulation methods shall pay a mitigation fee of $50 per well shall be paid to the Buena Vista Museum to fund the continued education and curation of paleontological resources and provide educational support regarding the paleontological history of the region.

Significant Effect:

Without mitigation, the Project has the potential to disturb human remains, including those interred outside of formal cemeteries (Impact 4.5-4).

Description of Specific Impact:

Any disturbance of human remains would be significant. Burials, prehistoric or historic, are below the surface and usually are not marked even in the case of historic burials as the original wooden markers have deteriorated. Potential impacts to human remains would most likely occur during construction. Earthmoving, such as grading, may reveal human skeletal materials and all work should cease upon discovery. Potential impacts to human remains are unlikely during operations except where new ground disturbance occurs.

Finding:

Without mitigation, the Project has the potential to disturb human remains, including those interred outside of formal cemeteries. These impacts will be reduced to a level that is less than significant with implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's impacts to potential human remains in the Project Area. The following mitigation measures will be incorporated into the Project to lessen the impacts to those resources to a level that is less than significant.

MM 4.5-4 In the event archaeological materials are encountered during the course of ground disturbance or construction, the Project operator/contractor shall cease any ground disturbing activities within 50 feet of the find. The qualified archaeologist shall evaluate the significance of the resources and recommend appropriate treatment measures. Per California Environmental Quality Act Guidelines Section 15126.4(b)(3), Project redesign and preservation in place shall be the preferred means to avoid impacts to significant historical resources. Consistent with California Environmental Quality Act Guidelines Section 15126.4(b)(3)(C), if it is demonstrated that resources cannot be avoided, the qualified archaeologist shall develop additional treatment measures in consultation with the County, which may include data recovery or other appropriate measures. The Planning and Community Development Department shall consult with appropriate Native American representatives in determining appropriate treatment for unearthed cultural resources if the resources are prehistoric or Native American in nature. If after consultation it is deemed appropriate, archaeological materials recovered during any investigation shall be curated at an accredited curation facility. The qualified archaeologist shall prepare a report documenting evaluation and/or additional treatment of the resource. A copy of the report shall be provided to the Kern County Planning and Community Development Department and to the Southern San Joaquin Valley Information Center. In the event archaeological materials are encountered, in Tier 2 the surface owner shall be notified immediately.

MM 4.5-5 If human remains are uncovered during Project construction, the Applicant shall immediately halt all work, contact the Kern County Coroner to evaluate the remains, and follow the procedures and protocols set forth in Section 15064.4 (e)(1) of the California Environmental Quality Act Guidelines. The Kern County Planning and Community Development Department shall be notified concurrently. If the County Coroner determines that the remains are Native American, the Project proponent shall contact the Native American Heritage Commission, in accordance with Health and Safety Code Section 7050.5, subdivision (c), and Public Resources Code 5097.98 (as amended by Assembly Bill 2641). The Native American Heritage Commission shall designate a Most Likely Descendant for the remains per Public Resources Code 5097.98. Per Public Resources Code 5097.98, the applicant, in coordination with the landowner, shall ensure that the immediate vicinity, according to generally accepted cultural or archaeological standards or practices, where the Native American human remains are located, is not damaged or disturbed by further development activity until the discussion and conference with the Most Likely Descendant has occurred, if applicable, taking into account

the possibility of multiple human remains. If the remains are determined to be neither of forensic value to the Coroner, nor of Native American origin, provisions of the California Health and Safety Code (7100 et. seq.) directing identification of the next-of-kin will apply. In the event human remains are uncovered, in Tier 2 the surface owner shall be notified immediately.

C. Environmental Effects of the Project That Cannot Be Mitigated to a Level Less Than Significant.

None.

D. Cumulative Environmental Effects of the Proposed Project That Will Have a Less Than Significant Impact on the Environment.

None.

E. Cumulative Environmental Effects of the Proposed Project That Will Have a Significant Impact on the Environment.

Significant Effect:

The Project will contribute to cumulative impacts to historical, archaeological, or paleontological resources and human remains (Impact 4.5-5).

Description of Specific Impact:

The geographic scope for cumulative impacts to cultural and paleontological resources includes the area within a one-mile radius from the Project Area. Analysis of cumulative impacts takes into consideration the entirety of impacts that the proposed Project would have on cultural resources. Future development and construction could encounter potentially significant cultural and paleontological resources during ground-disturbing construction activities, including grubbing, grading, and excavation. Potential impacts on cultural resources include the potential to be destroyed by construction equipment and Project-related vehicles, exposure of alluvium during construction that could subject the rocks to increased weathering and erosion, unauthorized collection of fossils by Project personnel (as well as amateur and commercial collectors who would have greater access to the area), and vandalism. Cumulative impacts may result when paleontological, historical, and archaeological resources or human remains cannot be avoided by future projects.

Finding:

The Project will contribute to cumulative impacts to historical, archaeological, or paleontological resources and human remains. All feasible and reasonable changes or alterations have been required in, or incorporated into, the Project to reduce this impact (as discussed below), but such measures will not reduce this impact to a less than significant level. This impact is significant and unavoidable.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's cumulative impacts to the cultural resources of the Project Area and its surroundings. There are no

feasible and reasonable mitigation measures that can reduce the Project's impacts on cultural resources in the area to a level that is less than significant. However, Mitigation Measures **MM 4.5-1** through **MM 4.5-5** will be incorporated into the Project to lessen the cumulative impacts to cultural resources to the greatest extent possible. This impact is thus significant and unavoidable.

6. GEOLOGY AND SOILS

A. Environmental Effects of the Project Found to Have No Impact on the Environment, or Have a Less Than Significant Impact on the Environment.

None.

B. Environmental Effects of the Project That Are Potentially Significant, but That Can Be Mitigated to Less Than Significant Levels.

Significant Effect:

Without mitigation, the Project has the potential to expose people or structures to substantial adverse effects, including the risk of loss, injury or death involving the rupture of a known earthquake fault (Impact 4.6-1).

Description of Specific Impact:

The Project Area is located in a seismically active area containing active fault systems. This includes such fault systems as the San Andreas fault system located near the western portion of the Project Area. An expression of seismic faults may include a surface rupture, which are the result of movement along an existing fault, which breaks the land surface. Project activities including high volume hydraulic fracturing and injection of waste water from drilling activities have the potential to induce seismicity, however the potential for hydraulic fracturing to cause felt induced seismic events is considered to be low unless hydraulic fracturing occurs in active fault zones which may result in a felt seismic event. Induced seismicity may also be caused by deep wastewater injection. However, as discussed EIR Section 4.6, Geology and Soils, wastewater injection in California occurs at much shallower depths (4,700 to 7,700 feet) than in other parts of the U.S. and the volume of wastewater injected in California is about four times less than wells in other locations where induced seismic events have occurred. In addition, more oil and gas production in California occurs in sedimentary basins that are less susceptible to induced seismicity from wastewater injection as compared to injection into fractured hard rock. Moreover, in California, injection wells have been in use for more than 50 years, with 42,000 oilfield injection wells currently operating, and seismicity rates have remained relatively constant for the last 77 years. Thus, the seismic hazard related to current wastewater injection practices in California is low (BSK 2015).

Strong seismic activity could damage current and/or future oil and gas exploration and production activities, such as drilling, well stimulation, and Enhanced Oil Recovery. In addition, well and production infrastructure could be damaged resulting in the degradation of well casing or seals, as well as plugs of abandoned wells. Pipelines transporting oil, gas, waste gas, and/or produced could crack and begin to leak. Damage to active or abandoned well could result in the leakage to underground formations. Although the 2014 CCST study on advanced well stimulation technologies in California indicated that well failure, or blowout rates in the Project Area have been significantly reduced over time by improved well construction technologies, a significant ground shaking event could still potentially cause well failure or other damage to Project-related infrastructure. In addition, future oil and gas exploration and production activities that would be

authorized under the Project would involve the installation of buildings and infrastructure that could be occupied by people. Although building codes would have to be implemented in the infrastructure, there would still be a risk of impacts associated with Project activities resulting in the rupture of a known earthquake fault and, therefore, impacts could be significant.

Finding:

Without mitigation, the Project has the potential to expose people or structures to substantial adverse effects, including the risk of loss, injury or death involving the rupture of a known earthquake fault. However, these significant adverse impacts will be reduced to a level that is less than significant by implementation of mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to expose people or structures to substantial adverse effects, including the risk of loss, injury or death involving the rupture of a known earthquake fault. The following mitigation measures will be incorporated into the Project to lessen the impacts to a level that is less than significant:

MM 4.6-1 Prior to beginning a ground disturbance activity, the Applicant shall comply with the following regulations (as applicable) and confirm compliance in its Site Plan Conformity Review application documentation:

a. Alquist-Priolo Earthquake Fault Zoning Act.

b. California Building Code.

c. Division of Oil Gas and Geothermal Resources regulations, as identified in the California Code of Regulations, Title 14, Division 2, Chapter 4, including regulations implementing Senate Bill 4 as applicable. If hydraulic fracturing is conducted for any well associated with the Site Plan Conformity Review, the Applicant shall comply with requirements to monitor the California Integrated Seismic Network for indication of an earthquake of magnitude 2.7 or greater for the period of 10 days following the end of hydraulic fracturing. The earthquake search radius shall be consistent with Division of Oil Gas and Geothermal Resources Senate Bill 4 regulations. The data will be submitted to Division of Oil Gas and Geothermal Resources for an evaluation of the risks and actions consistent with the Division of Oil Gas and Geothermal Resources Senate Bill 4 regulations. In approving a well stimulation treatment permit that would authorize, within an urban area (i.e., an area with a population over 50,000, as defined by the U.S. Census Bureau), the emplacement of well stimulation fluids into an oil or gas formation that has not been previously been subject to well stimulation activity, and/or into an oil or gas formation for which Division of Oil Gas and Geothermal Resources does not yet possess adequate information about formation fracture geometries, Division of Oil Gas and Geothermal Resources shall impose a permit condition requiring that the applicant conduct ground monitoring to characterize as-built fracture geometries prior to, during, and post-hydraulic fracturing. Monitoring shall also be conducted during fracturing treatments by use of applicable microseismic fracture mapping, tilt measurements, tracers, or proppant

tagging. Copies of ground monitoring records shall be provided to the County and Division of Oil Gas and Geothermal Resources for review and approval within 30 days of well stimulation treatment.

d. Additionally, the Applicant shall:

1. Avoid placement of structures intended for human occupancy on or within 50 feet of any active faults designated and mapped pursuant to the Alquist-Priolo Earthquake Fault Zoning Act where the fault breaks the surface.

2. Have a professional geologist prepare a fault rupture hazard evaluation according to guidelines in California Geological Survey Special Publication 42, 2007 for new developments with structures that are intended for human occupancy.

3. All Class II injection wells shall be authorized, and shall comply with all applicable legal requirements, Underground Injection Control Program Approval permit conditions, and be operated according to the California Code of Regulations Title 14 requirements, as described in the mitigation measures for Hydrology and Water Quality.

4. Ensure that active fault trace placement restrictions are in place for all permanent tanks and storage reservoirs used to store, treat, or transport hazardous materials or materials that are considered pollutants to surface water and groundwater, located in an Earthquake Fault Zone.

Ensure that all newly installed pipelines subject to 49 Code of Federal Regulations (CFR) Parts 192 and 195, are engineered and constructed in compliance with the requirements of the pipeline safety regulations, as set forth by the Pipeline Hazardous Materials Safety Administration (PHMSA). All other newly installed pipelines that transport gas or hazardous liquids are to be constructed, tested operated and maintained in accordance with good oilfield practice and applicable standards set forth and approved by the State Oil and Gas Supervisor. Ensure that all new pipelines designated for or water used for fire suppression are engineered and constructed in compliance with the requirements of California Building Code Chapter 9, Fire Protection Systems, and the California Fire Code to address potential fault rupture displacements.

MM 4.6-2 All structures designed for human occupancy shall be designed to withstand substantial ground shaking in accordance with applicable California Building Code seismic design standards and Kern County Building Code.

Significant Effect:

Without mitigation, the Project has the potential to expose people or structures to substantial adverse effects, including the risk of loss, injury, or death involving strong seismic ground shaking (Impact 4.6-2).

Description of Specific Impact:

Project activities of hydraulic fracturing and deep wastewater injection have the limited potential to induce seismic activity. However, there are no cases where strong seismic shaking (>4.0) have occurred as a result of induced seismicity. Even in other areas of the country, where induced seismicity from hydraulic fracturing and wastewater injection has occurred, the seismic events have not exceeded levels that would damage structures. Significant impacts would occur if the magnitude of earthquakes from strong ground shaking rose to a level that could cause damage to structures or facilities. However, to minimize the effects to people, DOGGR regulates operation of injection wells. Over-pressuring of injected zones is controlled by operating all injection wells according to CCR Title 14, Division 2, Chapter 4, Subchapter 1, Article 3 Requirements.

Finding:

Without mitigation, the Project has the potential to expose people or structures to substantial adverse effects, including the risk of loss, injury, or death involving strong seismic ground shaking. However, these significant adverse impacts will be reduced to a level that is less than significant by implementation of mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to expose people or structures to substantial adverse effects, including the risk of loss, injury, or death involving strong seismic ground shaking. Mitigation Measures **MM 4.6-1** and **MM 4.6-2**, described above, will be incorporated into the Project to reduce this potential impact to a less than significant level.

Significant Effect:

Without mitigation, the Project has the potential to expose people or structures to substantial adverse effects, including the risk of loss, injury, or death involving seismic-related ground failure, including liquefaction (Impact 4.6-3).

Description of Specific Impact:

Liquefaction occurs when saturated, loose materials are weakened and transformed from a solid to a near liquid state due to increased pore water pressure caused by strong ground motion from an earthquake. Project activities such as hydraulic fracturing and deep waste water injection are unlikely to cause induce strong seismic events and their impact is considered a less than significant. However, naturally occurring earthquakes have the potential to cause liquefaction and cause damage to structures. Liquefaction generally can occur in areas of high groundwater (<50 feet) and fine sandy or silty soils and typically consist of more recent Holocene deposits. In the Project Area, areas of high groundwater are located mainly in the northwest portion and southern tip of the Central Subarea and east-central and southeast portions of the Western Subarea. Most of the deposits in the Project Area tend to be more recent deposits. Although impacts from liquefaction have been observed from many major earthquakes around the world including the 1964 earthquakes in China and Alaska, the Christchurch, New Zealand earthquake in 2011, and more recently, the 2015 earthquake in Nepal, the Project is not expected to be the cause of any significant seismic events, and thus, the liquefaction potential from any Project activities is low. Impacts could be significant; however, implementation of MM 4.6-1 and MM 4.6-2 would further reduce the

potential for adverse effects as a result of liquefaction; therefore, the impact would be less than significant with mitigation.

Finding:

Without mitigation, the Project has the potential to expose people or structures to substantial adverse effects, including the risk of loss, injury, or death involving seismic-related ground failure, including liquefaction. However, these significant adverse impacts will be reduced to a level that is less than significant by implementation of mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to expose people or structures to substantial adverse effects, including the risk of loss, injury, or death involving seismic-related ground failure, including liquefaction. Mitigation Measures **MM 4.6-1** and **MM 4.6-2**, described above, will be incorporated into the Project to reduce this impact to a less than significant level.

Significant Effect:

Without mitigation, the Project has the potential to expose people or structures to substantial adverse effects, including the risk of loss, injury, or death involving landslides (Impact 4.6-4).

Description of Specific Impact:

Landslides occur due to a number of natural and man-made factors, such as earthquakes, volcanic eruptions, wildfires, and floods. Landslides also are caused by other factors such as strength of underlying material surface and groundwater conditions, surface vegetation, seasonal rainfall (i.e., soil saturation), and areas of steep slopes (generally greater than 30%). They can also occur from anthropogenic practices such as vegetation removal. Landslides caused by Project activities are not expected as the area of disturbance for each well pad is relatively small (< 3 acres). The Project Area is located in a seismically active area containing several active fault systems; however, volcanic activity is not likely. Wildfires and flooding can occur in localized areas, therefore, the potential for landslides in the Project Area may exist if the other factors are present (steep slopes, ground saturation, and lack of vegetation). The only area of high landslide incidence (where 15% of the area is involved in landsliding), is the southern border of the Project Area (Western, Central, and Eastern Subareas), typically in areas with steep slopes. Development in this area could result in potentially significant adverse effects to people and property in this area; however, it is likely that oil and gas development would not occur on these steep slopes and therefore unlikely that oil and gas activities would induce landslides if these areas would be avoided.

Finding:

Without mitigation, the Project has the potential to expose people or structures to substantial adverse effects during landslides. However, these significant adverse impacts will be reduced to a level that is less than significant by implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to expose people or structures to substantial adverse effects, including the risk of loss,

injury, or death involving landslides. The following mitigation measure will be incorporated into the Project to lessen the impacts to a level that is less than significant:

MM 4.6-3 Operators shall avoid siting wells or accessory equipment and facilities on slopes greater than 30% unless the Applicant determines that mineral recovery is infeasible from a different location, and site-specific Professional Engineering certification is submitted concluding that the new equipment will not cause landslides.

Significant Effect:

Without mitigation, the Project has the potential to result in substantial soil erosion or the loss of topsoil (Impact 4.6-5).

Description of Specific Impact:

Soil erosion is caused by a number of factors including: lack of vegetation/roots to bind the soil (from farming, overgrazing, other development); steep slopes and long slope lengths, poor farming practices, catastrophic weather events, everyday water and wind erosion, as well as other anthropogenic influences. In the Project Area, soils with high water erosion factors occur in 44% of the Western Subarea, 49% of the Central Subarea, and 12% of the Eastern Subarea and soils with high wind erosion factors occur in 49%, 38%, and 47%, respectively. Only a small percentage (7%, 0%, and 8%, respectively) exhibit areas with significant slope lengths. Project activities that would involve earth movement include constructing roads to a well site, grading a well pad, constructing pits/sumps, trenching for pipelines, and other excavations. Disturbed areas have a high potential for either wind or water driven erosion. Well pads are expected to have a small 1 to 5 acre footprint. The potential for erosion would be greatest in portions of the Project Area where there are both the high erosion factors and significant slope lengths. In these areas, there could be substantial soil erosion or topsoil loss, resulting in significant adverse effects. Erosion control measures would be necessary to reduce potential for soil erosion.

Finding:

Without mitigation, the Project has the potential to result in substantial soil erosion or the loss of topsoil. However, this significant adverse impact will be reduced to a level that is less than significant by implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to result in substantial soil erosion or the loss of topsoil. The stormwater mitigation measures described in EIR Section 4.9, Hydrology and Water Quality, will be incorporated into the Project to reduce this impact to a level that is less than significant:

Significant Effect:

Without mitigation, the Project has the potential to be located on a geologic unit or soil that is unstable, or that would become unstable because of the Project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse (Impact 4.6-6).

Description of Specific Impact:

Portions of the Eastern and Western Subareas in the foothill area have sufficiently steep slopes that may potentially expose structures to slope instability or landslides that could cause significant damage or collapse. Grading or construction activities that alter the slope gradient or add loads to slopes could potentially cause slope instability and failure resulting in damaging structures. Structures built on potentially unstable slopes could result in a potentially significant impact. In addition, structures built on liquefiable soils could collapse or be significantly deformed causing structural collapse or be damaged such that the structural integrity is compromised. This would be considered a potentially significant impact. Differential settlement of soils from hydrocompaction of near surface soils that may result in damage to Project-related structures placed on susceptible soil would be a potentially significant impact. Subsidence due to oilfield fluid withdrawal activities (water withdrawal) could be a potentially significant impact.

Finding:

Without mitigation, the Project has the potential to be located on a geologic unit or soil that is unstable, or that would become unstable because of the Project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse. However, these significant adverse impacts will be reduced to a level that is less than significant by implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the environmental impacts of the Project caused by landslide, soil liquefaction, or collapse. Mitigation Measure MM 4.6-3, described above, and Mitigation Measure MM 4.6-4, described below, will incorporated into the Project to reduce this impact to a level that is less than significant:

MM 4.6-4 The Applicant shall confirm compliance with, and shall implement, a Division of Oil Gas and Geothermal Resources approved re-pressuring plan as required by Division 3, Chapter 1, Article 5.5 of the Public Resources Code, commencing with Section 3315. In developed areas where subsidence is confirmed or suspected, subsidence monitoring shall be required using Synthetic Aperture Radar studies and/or other methods as approved by the Division of Oil Gas and Geothermal Resources to quantify and evaluate the potential effect on the area.

Significant Effect:

Without mitigation, the Project has the potential to be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property (Impact 4.6-7).

Description of Specific Impact:

Structures built on soils with high swelling potential may experience shifting, cracking, and breaking damage as these soils expand and contract Thus, soils that are predominantly clay or have high clay content are considered potentially expansive. As discussed above in the Potential Geologic Hazards subsection, 54% of the Western Subarea, 39% of the Central Subarea, and 40% of the Eastern Subarea contain soils with expansive potential. Therefore, structural damage to Project infrastructure due to inadequate soil and foundation engineering or the placement of oil and gas structures directly on expansive soils could cause potentially significant impacts.

Finding:

Without mitigation, the Project has the potential to be located on expansive soil, as defined in Section 1802.3.2 of the California Building Code (2007), creating substantial risks to life or property. However, this significant adverse impact will be reduced to a level that is less than significant by implementation of mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to be located on expansive soil, as defined in Section 1802.3.2 of the California Building Code. The following mitigation measure will be incorporated into the Project to lessen the impacts to a level that is less than significant:

MM 4.6-5 The Applicant shall avoid building infrastructure on expansive soils unless the Applicant determines that mineral recovery is infeasible from a different location, and site-specific Professional Engineering certification is submitted concluding that the new equipment will not cause substantial risks to life or property.

Significant Effect:

Without mitigation, the Project has the potential to have soils that are incapable of adequately supporting the use of septic tanks or alternative wastewater systems where sewers are not available for the disposal of wastewater (Impact 4.6-8).

Description of Specific Impact:

Potential Project activities such as installation of oil and gas well, construction of pipelines and other oilfield related jobs may require the housing of temporary employees or an increase in permanent residents requiring residential structures. While well pad activities would generally utilize portable sanitation units, company structures offices and any temporary housing may require the use of septic systems where public water systems would not be available. The placement of septic systems in areas of slow to very slow infiltration rates may cause adverse impacts to soils and soil stability including areas of saturated soil. There are areas of slow to very slow infiltration rates within the Project Area, typically in upland areas along the perimeter of the Project Area and in some instances in the Central Subarea. Most of the Project Area has high to moderate infiltration rates. Thus, the installation of septic systems in soils with slow to very slow infiltration rates could have significant impacts; however, all new septic system installations require permitting from the County to restrict such impacts.

Future oil and gas exploration and production activities could result in a need for temporary housing for workers. This increase in residential structures could have an impact on soils incapable of adequately supporting the use of septic tanks. Wastewater disposal from temporary housing and from oil and gas production activities could also impact soils and soil stability. All new septic system installations require permitting from the County, therefore, such impacts would be less than significant.

Finding:

Without mitigation, the Project has the potential to have soils that are incapable of adequately supporting the use of septic tanks or alternative wastewater systems where sewers are not available

for the disposal of wastewater. These impacts will be reduced to a less than significant level by implementation of the mitigation measure described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to have soils that are incapable of adequately supporting the use of septic tanks or alternative wastewater systems where sewers are not available for the disposal of wastewater. Mitigation Measure **MM 4.6-1**, described above, will be incorporated into the Project to lessen the impacts to a level that is less than significant.

C. Environmental Effects of the Project That Cannot Be Mitigated to a Level Less Than Significant.

None.

D. Cumulative Environmental Effects of the Proposed Project That Will Have a Less Than Significant Impact on the Environment.

Significant Effect:

Without mitigation, the Project has the potential to contribute to cumulative geologic and soil impacts (Impact 4.6-9).

Description of Specific Impact:

Proposed oil and gas production development in the Project Area would alter landforms through activities such as site grading and road construction. In addition, hydraulic fracturing and deep waste water injection may cause low level induced seismicity, but not at a level that would be expected to result in structural damage. Cumulative impacts may occur if multiple seismic inducing activities occurred simultaneously. However, for reasons stated above, although it is anticipated that over 1,000 wells will be hydraulically fractured annually, significant induced seismicity has not been observed and is not anticipated. In addition, although in California, injection wells have been in use for more than 50 years, with 42,000 oilfield injection wells currently operating, seismicity rates have remained relatively constant for the last 77 years and are not anticipated to change. Under these circumstances, oil and gas activities are unlikely to induce multiple seismic events at a level that would cumulatively cause significant damage. Therefore, the contribution of Project-related activities to cumulative impacts on geologic resources and soils would be less than significant.

Naturally occurring impacts to soils and geology, such as naturally occurring earthquakes, may also expose workers and structures to geologic hazards that could result in cumulatively considerable or significant impacts. In these instances, conducting mitigation measures described above would result in cumulative impacts that are less than significant. Prior to beginning Project activities, the Applicant would have to comply with all appropriate rules, mitigation measures, and regulations as described above.

Finding:

Without mitigation, the Project has the potential to contribute to cumulative geologic and soil impacts. These impacts will be reduced to a level that is less than significant with implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to make a considerable contribution to cumulative geologic and soil impacts. Mitigation Measures **MM 4.6-1** through **MM 4.6-5** will be incorporated into the Project to lessen the cumulative impacts to a level that is less than significant.

E. Cumulative Environmental Effects of the Proposed Project That Will Have a Significant Impact on the Environment.

None.

7. GREENHOUSE GAS EMISSIONS

A. Environmental Effects of the Project Found to Have No Impact on the Environment, or Have a Less Than Significant Impact on the Environment.

None.

B. Environmental Effects of the Project That Are Potentially Significant, but That Can Be Mitigated to Less Than Significant Levels.

Significant Effect:

Without mitigation, the Project has the potential to generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment (Impact 4.7-1).

Description of Specific Impact:

GHG emissions would occur during all aspects of oil and gas activities, including the construction and operation of permitted sources, and the operation of non-permitted sources in the Western, Central, and Eastern Subareas. Total emissions resulting from the construction and operation of new facility equipment during a Project year (i.e., any year between 2015 and 2035), and the construction and operation of facilities over the Project period (2015 - 2035) are summarized in EIR Tables 4.7-8 and 4.7-9. GHG emissions from construction and operation of oil and gas wells will continue to be subject to CARB's AB 32 Cap-and-Trade Program and other regulatory mandates, so that oil and gas production in Kern County would not conflict with statewide GHG emissions goals and objectives. The Project would be consistent with the Cap-and-Trade Regulation because all significant facility emissions are subject to the Cap-and-Trade Regulation, either as stationary source emissions for which the facility operator has a compliance obligation, or as emissions from fuel combustion, for which the fuel supplier has a compliance obligation; methane emissions will be limited by the new CARB methane rule expected to be adopted by the end of 2015. However, GHG emissions not covered by Cap-and-Trade Regulations and the BPS, and fugitive emissions may contribute a net increase of GHG in the region that would be a potentially significant impact. To account for additional sources of Project-related GHG emissions

not estimated in this analysis (i.e., indirect sources, fugitive emissions), the County has determined to conservatively mitigate Project direct GHG emissions to net zero.

Finding:

Without mitigation, the Project has the potential to generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment. These impacts will be reduced to a less than significant level by implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment. The following mitigation measures will be incorporated into the Project to reduce this impact to a less than significant level:

MM 4.7-1 An Applicant covered by the Cap-and-Trade Program with permitted stationary sources shall comply with the Cap-and-Trade regulation (especially by surrendering greenhouse gas allowances or offset credits to satisfy their compliance obligation under the Program), and implement Best Performance Standards applicable to greenhouse gas reduction for Components at Light Crude Oil and Natural Gas Production, Natural Gas Processing Facilities, Petroleum Refineries, Gas Liquids Processing Facilities, and Chemical Plants (San Joaquin Valley Air Pollution Control District 2010), Thermally Enhanced Oil Recovery Wells (San Joaquin Valley Air Pollution Control District 2010a), Steam Generators (San Joaquin Valley Air Pollution Control District 2010b), and Front-line Organic Liquid Storage Tanks (San Joaquin Valley Air Pollution Control District 2011).

MM 4.7-2 Each Applicant covered by the Cap-and-trade Program shall comply with applicable Cap and Trade regulations, and other applicable greenhouse gas emission control and reduction regulations as these may be adopted or amended over time, to reduce, avoid, mitigate and/or sequester greenhouse gas emissions from Project-related air emissions.

MM 4.7-3 Each Applicant shall implement methods to recover for reuse or destroy methane existing in associated gas and casinghead gas, as follows:

a. Recover all associated gas produced from the reservoir via new wells, regardless of the well type, except for gas produced from wildcat and delineation wells or as a result of start-up, shutdown and maintenance activities (whether planned or unplanned), system failures, and emergencies in accordance with San Joaquin Valley Air Pollution Control District regulations (Rule 4401 and 4409), as this may be amended over time.

b. Compliance with the expected California Air Resources Board methane regulation.

MM 4.7-4 Each Applicant shall offset all greenhouse gas emissions not covered by the Cap-and-Trade program or other mandatory greenhouse gas emission reduction

measures through Applicant reductions of greenhouse gas emissions as verified by Kern County, through acquisition of offset credits from the California Air Pollution Control Officers Association Exchange Register or other third party greenhouse gas reductions, with consultation as to the validity of methodology for calculating reductions verified by the San Joaquin Valley Air Pollution Control District and accepted by Kern County, or through inclusion in an Emission Reduction Agreement, to offset Project-related greenhouse gas emissions that are not included in the Cap and Trade program to assure that no net increase in greenhouse gas emissions from the Project.

C. Environmental Effects of the Project That Cannot Be Mitigated to a Level Less Than Significant.

Significant Effect:

The Project will conflict with an applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases (Impact 4.7-2).

Description of Specific Impact:

The proposed Project will be consistent with California's adopted California Climate Change Scoping Plan, CARB's GHG Cap-and-Trade Program, and other applicable adopted standards and regulations. Impacts are therefore anticipated to be less than significant. However, impacts from the Project on applicable plans, policies, or regulations adopted for the purpose of reducing the emissions of GHG emissions would be potentially significant on a cumulative basis. While implementation of MM 4.7-1 through MM 4.7-3 and the 2014 Regional Transportation Plan (RTP) mitigation measures would encourage reduction in GHG emissions at a regional level, they do not provide a mechanism that guarantees GHG emission reductions on a cumulative basis. Kern County also lacks the jurisdiction and control over the many cumulative sources of GHG emissions, and over the global source of GHG emissions, that collectively contribute to climate change. Many other agencies with the requisite jurisdiction are taking steps to reduce GHG emissions; however, the County cannot assure that these steps will ultimately be implemented or sufficient to address global climate change. Therefore, Impact 4.7-2 would be significant.

Finding:

The Project's potential to conflict with an applicable greenhouse gas emissions reduction plan, policy or regulation of an agency cannot be feasibly prevented. All feasible and reasonable changes or alterations have been required in, or incorporated into, the Project that substantially lessen the potentially significant cumulative effects identified in the EIR, but such measures cannot reduce this potential impact to a less than significant level. This impact is therefore significant and unavoidable.

Brief Explanation of the Rationale for the Finding:

The Project's potential to conflict with an applicable greenhouse gas emissions reduction plan, policy or regulation of an agency is considered significant and unavoidable because such impact cannot be feasibly avoided. Mitigation Measure **MM 4.7-3**, described above, will be incorporated into the Project to reduce this impact to the greatest feasible extent, but implementation of this mitigation measure will not reduce this impact to a less than significant level. Therefore, this impact is significant and unavoidable.

D. Cumulative Environmental Effects of the Proposed Project That Will Have a Less Than Significant Impact on the Environment.

None.

E. Cumulative Environmental Effects of the Proposed Project That Will Have a Significant Impact on the Environment.

Significant Effect:

The Project will make a considerable contribution to cumulative greenhouse gas emission impacts (Impact 4.7-3).

Description of Specific Impact:

Impacts from the Project on cumulative GHG emissions would be potentially significant. While implementation of MM 4.7-1 through MM 4.7-3 and the 2014 RTP mitigation measures would encourage reduction in GHG emissions at a regional level, they do not provide a mechanism that guarantees GHG emission reductions on a cumulative basis. Kern County also lacks the jurisdiction and control over the many cumulative sources of GHG emissions, and over the global source of GHG emissions, that collectively contribute to climate change. Many other agencies with the requisite jurisdiction are taking steps to reduce GHG emissions; however, the County cannot assure that these steps will ultimately be implemented or sufficient to address global climate change. Therefore, Impact 4.7-3 would remain significant and unavoidable.

Finding:

The Project's potential to make a considerable contribution to greenhouse gas emission impacts cannot be feasibly prevented. All feasible and reasonable changes or alterations have been required in, or incorporated into, the Project that substantially lessen the potentially significant cumulative effects identified in the EIR, but such measures cannot reduce this potential impact to a less than significant level. This impact is therefore significant and unavoidable.

Brief Explanation of the Rationale for the Finding:

The Project's potential to make a considerable contribution to greenhouse gas emission impacts is considered significant and unavoidable because such impact cannot be feasibly avoided. Mitigation Measure **MM 4.7-4**, described above, will be incorporated into the Project to reduce this impact to the greatest feasible extent, but implementation of this mitigation measure will not reduce this impact to a less than significant level. Therefore, this impact is significant and unavoidable.

8. HAZARDS AND HAZARDOUS MATERIALS

A. Environmental Effects of the Project Found to Have No Impact on the Environment, or Have a Less Than Significant Impact on the Environment.

The Project will not result in a safety hazard for people residing or working in the Project Area and within the vicinity of a private airstrip (Impact 4.8-6).

The Project will not impair implementation of, or physically interfere with, an adopted emergency response plan or emergency evacuation plan (Impact 4.8-7).

EXHIBIT B

B. Environmental Effects of the Project That Are Potentially Significant, but That Can Be Mitigated to Less Than Significant Levels.

Significant Effect:

Without mitigation, the Project has the potential to create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials (Impact 4.8-1).

Description of Specific Impact:

Regulations governing the transportation of hazardous material via truck and pipelines are comprehensive and serve to prevent or mitigate releases of hazardous materials in many situations. Historical data suggest that releases have occurred at a frequency such that they occur during routine operations, though the vast majority of these releases have been minor. Further, many of the incidents reported above occurred before enactment of AB 1960 in January 2009 and prior to implementation of the AB 1960 regulations on January 29, 2011, which were enacted to improve, among other things, leak detection, corrosion prevention, and pipeline integrity. Nevertheless, potential releases have the potential to contaminate the environment or expose the public to hazardous materials and, therefore, the impacts could be significant.

The use, handling, storage and disposal of hazardous materials is also regulated. Despite the implementation of federal and state regulations, releases or spills have occurred in the Project Area and would be expected to continue to occur in oil and gas activities authorized under this Project. Since these potential releases could contaminate the environment or expose the public to hazardous materials, the impacts could be significant.

Finding:

Without mitigation, the Project has the potential to create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials. The potential for such impact will be reduced to a less than significant level by implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation measures be applied to the Project to reduce the potential impacts caused by the transportation and use of hazardous materials. The following mitigation measures will be incorporated into the Project and will reduce this impact to a less than significant level:

MM 4.8-1 The Applicant shall provide a comprehensive Worker Environmental Awareness Program to the County with its first Site Plan Conformity Review permit application in each calendar year. The program shall include all training requirements identified in Applicant Best Management Practices and mitigation measures, and include training for all field personnel (including Applicant employees, agents and contractors). The Worker Environmental Awareness Program shall include protocols and training for responding to and handling of hazardous materials and hazardous waste management, and emergency preparedness, release reporting, and response requirements. In Tier 2, the Worker Environmental Awareness Program shall be provided to the surface owner at the

time of the application pathway process so the surface owner may educate employees as well.

MM 4.8-2 The Applicant shall arrange for transportation, storage and disposal of all hazardous materials in compliance with the Hazardous Materials Transportation Act. Drivers transporting hazardous materials or wastes should follow the measures recommended by the Federal Motor Carrier Safety Administration for avoiding roll-over accidents. To avoid roll-over accidents involving cargo tank trucks:

a. Avoid sudden movements that may lead to roll-overs.

b. Control your load in turns and on straight roadways.

c. Identify high risk areas on roads.

d. Remain alert and attentive behind the wheel.

e. Control speed and maintain proper "speed cushions."

MM 4.8-3 The Applicant shall implement the following practices:

a. Construction activities shall be conducted to allow for easy clean-up of spills. Construction crews shall have sufficient tools, supplies, and absorbent and barrier materials to contain and recover spilled materials.

b. Fuels and lubricants shall be stored only at designated staging areas. Fuel and lubricant tanks shall have appropriate secondary spill containment (e.g., curbs). Compliance with laws and regulations is required, including compliance with hazardous materials and hazardous waste storage laws, as applicable.

c. Storage of fuel and lubricants in the staging area shall be at least 100 feet away from the edge of water bodies. Refueling and lubrication of equipment shall be restricted to upland areas at least 100 feet away from stream channels and wetlands.

d. Any fuel truck shall carry an oil spill response kit and spill response equipment at all times.

e. Applicants shall be required to perform all routine equipment maintenance at the well pad or other suitable locations (i.e., maintenance yards), and promptly collect and lawfully dispose of wastes in compliance with existing regulatory requirements.

f. Berms and/or dikes (secondary containment) shall be constructed around the permanent above-ground bulk tanks and the foundations shall be installed with a passive leak detection system, so that potential spill materials shall be contained and collected in specified areas isolated from any water bodies. Tanks shall not be placed in areas subject to periodic flooding or washout. Compliance with laws and regulations is required, including compliance with

hazardous materials and hazardous waste storage laws as applicable, including for secondary containment, such as Division of Oil, Gas and Geothermal Resources regulation (Title 14, C.C.R. § 1773.1), which requires secondary containment in "an engineered impoundment such as a catch basin, which can include natural topographic features, that is designed to capture fluid released from a production facility."

g. A sufficient supply of sorbent and barrier materials shall be maintained on construction sites consistent with the type and level of construction activities. Sorbent and barrier materials shall also be utilized to contain runoff from contaminated areas where appropriate.

    1. Shovels and drums shall be stored at each well pad or be readily available. If small quantities of soil become contaminated, hand tools such as shovels or other appropriate tools, shall be used to collect the soil and the material shall be stored in storage drums. Large quantities of contaminated soil may be bio-remediated on-site or at a designated remediation facility, subject to government approval, or collected utilizing heavy equipment, and stored in drums or other suitable containers prior to disposal. Should contamination occur adjacent to staging areas as a result of runoff, shovels and/or heavy equipment shall be utilized to collect the contaminated material. Contaminated soil shall be disposed of in accordance with state and federal regulations.

    2. Above-ground tanks, valves and other equipment shall be visually inspected monthly and when the tank is refilled. Inspection records shall be maintained. Applicants shall periodically check tanks for leaks or spills.

    3. Drain valves on all tanks shall be locked to prevent accidental or unauthorized discharges from the tank.

    4. Equipment maintenance shall be conducted in staging areas or other suitable locations (i.e., maintenance shops or yards) to the extent practical.

    5. The Applicant shall maintain equipment in operating condition to reduce the likelihood of fuel or oil line breaks and leakage. Any vehicles with chronic or continuous leaks shall be removed from the site and repaired before being returned to operation.

h. Applicants are encouraged, but not required, to use an alternate to silica sand as a proppant, after Division of Oil Gas and Geothermal Resources has determined that such an alternative does not introduce new hazards.

MM 4.8-4 The Applicant shall implement the following measures to prevent, repair, and remediate accidental leaks and spills from oil and gas operations.

a. The Applicant shall identify gas, oil and produced water pipelines to be used for each new or reworked well site in its Site Plan, and shall show the location of any sensitive receptor located within 300 feet of any such pipeline. For any pipeline located within 300 feet of a sensitive receptor, the Applicant shall present evidence that each such pipeline has been integrity tested using

pressure testing or other accepted test methods by a qualified professional within a two-year period prior to submittal of the Site Plan, and shall provide a copy of the test result to the County. For all waste gas lines less than or equal to 4 inches in diameter, a Pipeline Management Plan shall be developed and implemented in accordance with Division of Oil Gas and Geothermal Resources regulations Title 14, Division 2, Chapter 4, Section 1774.2. The Pipeline Management Plan shall include:

1. A listing of information on each pipeline including, but not limited to:

   i. Pipeline type.
   ii. Grade.
   iii. Installation date of pipeline.
   iv. Design and operational pressure.
   v. Any leak, repair, inspection and testing history.

2. A description of the testing method and schedule for all pipelines.

b. The Applicant shall notify the Kern County Environmental Health Division, Certified Union Program Agency (CUPA), surface landowner, and sensitive receptors located within 300 feet, of any hazardous materials/waste release immediately upon discovery, and to other applicable agencies as required by other laws. The Applicant shall immediately contain the leak (e.g., by isolating or shutting down the leaking equipment), clean up contaminated media (e.g., soils), and repair the leak prior to recommencing operations. The Applicant shall report the status and progress of the leak repair and remediation work to the County and the CUPA on monthly intervals or predetermined intervals until the repair has been completed. Contaminated media shall be analyzed according to 22 C.C.R. §§ 66261.21-66261.24 for determination of appropriate hazardous waste disposal. Hazardous Waste Determination procedures are provided in 22 C.C.R. §66262.11.

c. As part of the Site Plan, the Applicant shall identify the location and right of way for all pipelines to be used for the transport of oil, gas, and produced water, including pipelines that intersect the main transport line, based on existing data and using commercially available technology, and, based on the results of this analysis, shall identify any sensitive receptors within 300 feet of the pipeline for purposes of complying with Mitigation Measure 4.8-4. Mechanical integrity testing of all such pipeline lengths within 300 feet of a sensitive receptor shall be required pursuant to Mitigation Measure 4.8.4-a.

d. If a release, identified pursuant to subsection (b), cannot be repaired or remediated within 48 hours, and has potential impact to sensitive receptors, the Applicant shall incur costs to sample and analyze the potentially affected area, which may include soil, groundwater, outdoor or indoor air of sensitive receptors within 300 feet of the leak. Applicant shall pay all temporary relocation costs (e.g., housing, food, and transportation) for any exposed sensitive receptor until such time as the leak has been repaired and post-indoor air testing has been completed, as confirmed by identified agency having oversight of the remediation.

MM 4.8-5 If, during grading or excavation work, the Applicant observes evidence of contamination or if soil contamination is suspected, work near the excavation site shall be terminated, the work area cordoned off and appropriate health and safety procedures implemented for the location by the contractor's Health and Safety Officer. Samples shall be collected by a trained and qualified individual. Analytical data from suspected contaminated material shall be reviewed by the contractor's Health and Safety Officer. If the sample testing determines that contamination is not present, work may proceed at the site; however, if contamination is detected above regulatory limits, the Kern County Public Health Services Department shall be notified. All actions related to encountering unanticipated hazardous materials at the site shall be documented and submitted to the Kern County Public Health Services Department.

MM 4.8-6 The Applicant shall implement measures to prevent the release or accidental spillage of solid waste, garbage, construction debris, sanitary waste, industrial waste, naturally occurring radioactive materials, oil and other petroleum products, and other wastes into water bodies or water sources, including all applicable practices included in the most up-to-date versions of the following documents: Exemption of Oil and Gas Exploration and Production Wastes From Federal Hazardous Waste Regulations (EPA 2002). Equivalent industry standards such as Environmental Protection for Onshore Oil and Gas Productions and Leases (American Petroleum Institute 2009) and related standards may also be utilized, provided that a professional engineer, certified industrial hygienist or certified safety professional certifies to the County that such alternative standards are as or more protective of human health and the environment, as compared to the standards in the referenced Environmental Protection Agency manual. The determination of when and the extent to which a measure is "practical" is to be made by the Applicant; however, all of the below activities must comply with all applicable legal requirements, including federal and state laws and regulations, County ordinances, and the mitigation measures included in this Final EIR.

a. Classify the various oil and gas exploration and production wastes for proper disposal as described in United States Environmental Protection Agency 2002, and in accordance with applicable California laws and regulations.

b. Size reserve pits properly to avoid overflows.

c. Use closed loop mud systems when practical, particularly with oil-based muds.

d. Review safety data sheets of materials used, and select less toxic alternatives when possible.

e. Minimize waste generation, such as by designing systems with the smallest volumes possible (e.g., drilling mud systems).

f. Reduce the amount of excess fluids entering reserve and production pits.

g. Keep non-exempt wastes out of reserve or production pits.

h. Design the drilling pad to contain stormwater and rigwash.

i. Recycle and reuse oil-based muds and high density brines, when practical, and when such recycling and reuse complies with hazardous waste laws and recycling laws.

j. Perform routine equipment inspections and maintenance to prevent leaks or emissions.

k. Reclaim oily debris and tank bottoms when practical, and when such reclamation complies with hazardous waste laws and recycling laws.

l. Minimize the volume of materials stored at facilities.

m. Construct adequate berms around materials and waste storage areas to contain spills.

n. Perform routine inspections of materials and waste storage areas to locate damaged or leaking containers.

o. Train personnel to use sensible waste management practices.

MM 4.8-7 Conduct exploration and development activities as described in *Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development The Gold Book* (Bureau of Land Management 2007) or equivalent industry standard such as Environmental Protection for Onshore Oil and Gas Production Operations and Leases (American Petroleum Institute 2009) and related standards. The following specific measures should be undertaken at a minimum:

a. Sufficient impervious secondary containment, such as containment dikes, containment walls, and drip pans, should be constructed and maintained around all qualifying petroleum facilities, including tank batteries and separation and treating areas consistent with the Environmental Protection Agency's Spill Prevention, Control, and Countermeasures regulation (40 Code of Federal Regulations 112). The containment structure must have sufficient volume to contain, at a minimum, the content of the largest storage tank containing liquid hydrocarbons within the facility/battery and sufficient freeboard to contain precipitation, unless more stringent protective requirements are deemed necessary by the authorized officer. Drip pans should be routinely checked and cleaned of petroleum or chemical discharges and designed to prevent access by wildlife and livestock.

b. Chemical containers should not be stored on bare ground, and should be maintained in good condition and placed within secondary containment in case of a spill or high velocity puncture.

c. Containment dikes are not to be constructed with topsoil or coarse, insufficiently impervious spoil material. Containment is strongly suggested for produced water tanks. Chemicals should be placed within secondary containment and stored so that the containers are not in contact with soil or standing water and product and hazard labels are not exposed to weathering.

d. Maintain a clean well location. Remove trash, junk, and other materials not in current use.

e. In approving a well stimulation treatment permit, the applicant shall include in the spill contingency plan required by Section 1722.9 of Title 14 of the California Code of Regulations a protocol for measuring and reporting earthquake and earth consequences that occur during the well stimulation process, for however many well stimulation treatments are proposed to occur simultaneously at any given time. The Spill Contingency Plan shall include requirements for adequate personnel and equipment that may be necessary to conduct post-earthquake inspection and repair plans to evaluate any damage that has occurred. The Spill Contingency Plan shall include spill prevention, control and countermeasure plans to address the hazardous substances associated with well stimulation activities. The post-earthquake inspection procedures shall ensure the integrity of the mechanical systems and well integrity of wells used for stimulation or wastewater injection and idle wells that might have become conduits for escaping fluids or gases. The plan shall include procedures describing the necessary steps to be taken after service is disrupted in order to make the facilities secure, operational and safe as soon as possible.

MM 4.8-8 Applicants shall use the appropriate American Petroleum Institute Standards, or other recognized sources imposing the same or equivalent standards, for their facility, such as the following:

a. Use cements and well materials in well completions as described in Specifications for Cements and Materials for Well Cementing (American Petroleum Institute 2011).

b. Prior to start-up of all new facilities, verify and prove the construction, installation, integration, testing, and preparation of systems have been completed as designed following the practices described in Facilities Systems Completion Planning and Execution (American Petroleum Institute 2013a).

c. When the use of centralizers and stop-collars are required during well completion activities, follow the installation and testing requirements described in Recommended Practice for Centralizer Placement and Stop-collar Testing (American Petroleum Institute 2010a).

d. Limit the environmental footprint of oil and gas exploration and production and reduce the incidence of releases of hazardous substances following the practices described in Environmental Protection for Onshore Oil and Gas Production Operations and Leases (American Petroleum Institute 2009).

e. Minimize improper disposal by following the practices described in American Petroleum Institute Order No. G00004, Guidelines for Commercial Exploration and Production Waste Management Facilities (American Petroleum Institute 2001) or other recognized methods. These guidelines discuss the relevant regulations and permitting requirements; siting, construction, and technical consideration for various waste disposal options; as well as mitigation options.

f. Minimize the environmental footprint of exploration and production activities following the practices described in Land Drilling Practices for Protection of the Environment (American Petroleum Institute 2010b) or other recognized sources.

g. When pressure testing is required by State or federal law, prior to pressurizing or re-pressurizing petroleum product pipelines, ensure the integrity of pipelines following the practices described in Recommended Practice for the Pressure Testing of Steel Pipelines for the Transportation of Gas, Petroleum Gas, Hazardous Liquids, Highly Volatile Liquids, or Carbon Dioxide (American Petroleum Institute 2013b) or other recognized sources.

h. To minimize releases of hazardous substances during oilfield construction, pit and sump operations shall be conducted in accordance with State Water Resources Control Board General Orders or appropriate Regional Water Quality Control Board waste discharge requirements or general orders.

MM 4.8-9 For all operations subject to the Oil and Gas Conformity Review, the Applicant shall comply with the pipeline management plan, including inspection and maintenance requirements, as administered by the Division of Oil Gas and Geothermal Resources pursuant to 14 California Code of Regulations 1774.

MM 4.8-16 The applicant shall not use any well stimulation fluid unless the applicant presents one of the following:

1. Safety Data Sheet that accurately describes the physical and chemical properties of the well stimulation fluid; or

2. Safety Data Sheets that accurately describe the physical and chemical properties of all chemical compounds in the well stimulation fluid; or

3. Toxicological report prepared by a qualified laboratory and/or the fluid vendor confirming the environmental profile of the well stimulation fluid is known; or

4. Results of an aquatic bioassay by a qualified laboratory confirming the environmental profile of the well stimulation fluid is known.

For purposes of this mitigation measure, the term “environmental profile” means the physical and chemical properties of a compound that determine its risk to human health and the environment. This mitigation measure shall be superseded by any list of approved well stimulation treatment fluids, chemicals or additives published by the State of California or by any applicable State of California regulation pertaining to chemical use in well stimulation treatment.

Significant Effect:

Without mitigation, the Project has the potential to create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment (Impact 4.8-2).

Description of Specific Impact:

Oil and gas activities could result in spills from accidents or improper handling or disposal of fuels or hazardous materials. Spills, release, overflow of tanks, or breach of containment can occur from operator error or limited storage capacity, water ingress from stormwater or floods, poor construction or failure of tanks and/or liners, or pipeline failure. A worst-case scenario would be a breach at central processing facility where petroleum products or hazardous materials are stored in bulk. A spill or release could expose workers and the public to levels of hazardous materials in excess of applicable regulations.

The most commonly spilled materials are crude oil and produced water, but also acids, condensates, and drilling muds. The most common causes are from most to least common:

- Production line failure due to corrosion, but also from the use of PVC lines instead of steel lines;
- Equipment failure mostly from valves, fittings, storage tanks, and pumps;
- Human error mostly from valves left open;
- Surface break-through by drilling mud, crude oil, and produced water during steam treatment of wells for enhanced oil recovery. Break-through occurred at nearby wells, abandoned wells, hillsides, and at a well during drilling.

Although the new production lines associated with the implementation of this Project would not be subject to corrosion right away, the number of spills from existing facilities could increase as those facilities age. Equipment failure and human error would still be possible; therefore, there could be leaks or releases that could have a significant impact to public safety and the environment.

The amount of cyclic steaming could increase compared to baseline levels consistent with the general increase in oil and gas activities that might occur pursuant to the Project. Cyclic steaming at or above the fracture gradient into zones with low permeability (e.g., tight reservoirs) has the potential to increase the occurrence of inadvertent releases of oil, water, steam, or mud to the surface. These releases are commonly referred to as “surface expressions.” A blowout is the worst-case surface expression. Due to the potentially catastrophic events that can occur to public safety and the environment if blow-outs or a pressure/steam-related event occur, impacts could be significant if a blowout or pressure/steam related event were to occur.

Finding:

Without mitigation, the Project has the potential to create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment. This significant adverse impact will be reduced to a level that is less than significant by implementation of mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project’s potential to create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment. Incorporation of Mitigation Measures **MM 4.8-1** through **MM 4.8-9**, described

above, and incorporation of the following mitigation measures into the Project will reduce this impact to a level that is less than significant:

MM 4.8-10 The Applicant shall incorporate annual maintenance checks for leaks and corrosion that cause releases into current operations, maintenance, and inspection schedules as provided by the Division of Oil Gas and Geothermal Resources pursuant to 14 California Code of Regulations Sections 1774.1 and 1774.2, the Applicant shall visually inspect all above-ground pipelines for leaks and corrosion at least once per year, comply with the pipeline testing requirements included therein, shall maintain records of such inspections and testing; and shall make inspection and testing records available to the County for review upon request.

MM 4.8-11 As part of the Hazardous Materials Business Plan and the spill prevention, control, And countermeasures Plan, the Applicant shall require annual worker training requirements to: increase awareness of the most common types of failures and methods to avoid mistakes, shall maintain records of employee training, and shall make such records available to the County for review upon request.

MM 4.8-12 An Applicant who plans to perform cyclic steam injection activities above reservoir fracture pressures shall conduct such activities in accordance with the requirements set forth in the Division of Oil Gas and Geothermal Resources site-specific Project Approval Letter for the injection Project. The following requirements from a Project Approval Letter for an injection Project are examples of the types of conditions that would be triggered if a surface expression were to occur, though such conditions may be modified by the Division of Oil Gas and Geothermal Resources to reflect site-specific conditions and changing regulatory requirements.

a. Cease cyclic steaming operations in accordance with the site-specific Project Approval Letter. Streaming can resume following the Division of Oil Gas and Geothermal Resources specifications outlined in the Project Approval Letter.

b. All new or reactivated surface expressions that discharge oil in a reportable quantity shall be reported as an oil spill to the California Emergency Management Agency at (800) 852-7550.

c. Any measures to address surface expressions from the well and associated Project shall be reviewed by the Division of Oil Gas and Geothermal Resources prior to initiating.

d. Immediately control any water, steam, or oil flowing from a surface expression and contained. All discharged material shall be removed and disposed of in a manner approved by all state and local agencies.

e. Cordon off and clearly mark all surface expressions to prevent inadvertent access.

f. Conduct air sampling of any emissions associated to a recent surface expression in accordance to the local air board requirements to ensure a health hazard condition does not exist.

g. Report immediately to the Division of Oil Gas and Geothermal Resources all surface expressions within 300 feet of the Project site. If the surface expression continues to flow after five days, all wells within a 300-foot radius shall cease steaming until the surface expression ceases to flow. If the surface expression continues to flow, the damage will be evaluated at the Supervisor's discretion, as assigned by Section 3106 of the Public Resources Code and existing laws and regulations.

MM 4.8-13 The Applicant shall comply with the Division of Oil Gas and Geothermal Resources requirements for assuring safe drilling and drill casing practices, well design, construction and well management requirements, blowout requirements, and all other provisions of 14 California Code of Regulations 1744 and other applicable Division of Oil Gas and Geothermal Resources regulations. The Applicant shall also reduce the incidence of well control loss by following the practices described in Recommended Practice for Well Control Operations (American Petroleum Institute 2012).

MM 4.8-14 The Applicant shall report contamination caused by oil and gas activities, including previously unknown injection wells, of a reportable quantity of hazardous substances, as specified in the Code of Federal Regulations Title 40 and/or the California Code of Regulations Titles 22 and 23, which is discovered during Project construction activities and operations. Notification must be made to Kern County Environmental Health Division and the appropriate implementing regulatory agency that has responsibility or oversight of the specific contamination conditions. The Applicant shall remediate such contamination outside Tier 1 areas as required by the Kern County Environmental Health Division and the appropriate implementing regulatory agency.

Significant Effect:

The Project will emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school (Impact 4.8-3).

Description of Specific Impact:

A Health Risk Assessment (HRA) was completed to assess the potential health effects of the Project. A detailed discussion of the risk assessment and its results are included in EIR's discussion of Impact 4.3-4. The HRA shows that the potential cancer risk exceeds the CEQA significance thresholds of 10 in 1 million for drilling a 10,000-foot well in 2015 to a distance 367 feet, and for drilling a 5,000-foot well in year 2015 to a distance of 116 feet, and for operations of the oil processing equipment to a distance of 701 feet. By 2018, due to emission reductions resulting from compliance deadlines occurring from CARB current diesel regulations, the risks associated with drilling a 5,000-foot (or shallower) well would not exceed the 10 in one million threshold. This analysis suggests that at 0.25 mile, risks from construction activities would be less than the CEQA significance threshold; however, there could be health risks for schools located less than 700 feet from oil processing equipment and located less than 367 feet from drilling of a 10,000-foot well. Therefore, impacts could be significant. Implementation of the setback requirements in EIR Sections 4.3, Air Quality, would ensure that oil and gas activities would not occur in close proximity to schools and, therefore, the impact would be less than significant with mitigation.

Some of the acutely hazardous materials that have been used in oil and gas activities in Kern County include anhydrous ammonia, hydrochloric acid, oxygen difluoride (compressed gas), peracetic acid (acetic acid over 60%), hydrogen sulfide, and nitric oxides. During all phases of oil and gas activities, acutely or extremely hazardous materials would have to be transported according the Hazardous Materials Transport Act, handled and stored according to OSHA and California Fire Code, and disposed of according to RCRA and California Hazardous Waste regulations. Most oil and gas activities do not require the long-term storage of hazardous or acutely hazardous materials. Some of these types of chemicals would be used during acid-based WST operations defined by SB 4, as well as non-SB 4 routine maintenance operations and generally during the production process.

California State law requires that new schools should not be located near an aboveground water or fuel storage tank or within 1,500 feet (0.28 miles) of the easement of an aboveground or underground pipeline that can pose a safety hazard as determined by a risk analysis study. Therefore, new schools would not be sited near oil and gas operations or pipelines. Currently, oil and gas wells cannot be drilled within 300 feet of a school, but that does not preclude other oil and gas activities from occurring within 300 feet of a school, such as the installation of pipelines or other operational activities. Although state and federal regulations safeguard the handling of acutely hazardous materials during routine operations and these should prevent releases, accidents do occur. Schools and other locations where people congregate are particularly vulnerable to accidents. Therefore, impacts could be significant.

Finding:

Without mitigation, the Project has the potential to emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school. This significant adverse impact will be reduced to a level that is less than significant by implementation of mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school. Incorporation of the toxic air contaminant setback mitigation measures described in EIR Section 4.3, Air Quality, and incorporation of the following mitigation measures into the Project will reduce this impact to a level that is less than significant:

MM 4.8-15 The Applicant who intends to use acutely hazardous chemicals, including chemicals at or above the specified threshold quantities or a process which involves a Category 1 flammable gas or a flammable liquid with a flashpoint below 100 degrees Fahrenheit (37.8 degrees Celsius) on site in one location, in a quantity of 10,000 pounds (4535.9 kilograms) or more according to 8 California Code of Regulations Section 5189, Appendix A, within 0.25 mile from a school must:

a. Evaluate whether other alternative chemicals that are less hazardous could be used.

b. Ensure that the smallest quantity of necessary acutely hazardous materials are stored on site.

c. Notify the occupants of the buildings when and where acutely hazardous materials would be used.

d. Notify Kern County Fire Department about the details of the use of acutely hazardous materials (e.g., when, where, how much).

e. Ensure that all employees who would contact the acutely hazardous materials are trained on the handling, transport, storage, and disposal of the materials.

f. Ensure that all employees who would contact the acutely hazardous materials are trained and are provided the proper personal protective equipment.

g. Ensure that all employees who would contact the acutely hazardous materials are trained and have exercised on the Spill Prevention, Control, and Countermeasures Plan that addresses these chemicals.

Significant Effect:

Without mitigation, the Project has the potential to create a hazard to public or the environment as a result of being located on a site that is included on a list of hazardous material sites compiles pursuant to Government Code Section 65962.5 (Impact 4.8-4).

Description of Specific Impact:

Government Code Section 65962.5 requires CalEPA to compile a hazardous materials release sites called the Cortese List. This list is housed in a database called ENVIROSTOR. The list for the Project Area includes locations that are under evaluation, need evaluation, active, inactive, undergoing closure, closed, and closed with land use restrictions. Most of the current sites are located within Bakersfield or other municipalities, but some are located within or near oilfields (see Figure 4.8-6). The list of sites changes as sites are cleaned up or are designated hazardous waste sites. Appendix R contains the list as of January 21, 2015. In addition, there are multiple locations where there has been petroleum product contamination including within oilfield operating areas.

Oil and gas activities, such as preparation of new sites; exploratory drilling; drilling of production wells; excavation of onsite soils for building foundations, pits, sumps, or other facilities, have the potential to disturb soils or cross aquifers. Unearthing of pre-existing contaminated soil at an identified hazardous waste site, causing pre-existing contamination in one groundwater aquifer to enter another, or disturbing formerly contaminated areas that have been capped has the potential to expose the public or the environment to contamination and therefore impacts could be a significant impact.

Finding:

Without mitigation, the Project has the potential to create a hazard to public or the environment as a result of being located on a site that is included on a list of hazardous material sites compiles pursuant to Government Code Section 65962.5. However, these significant adverse impacts will be reduced to a level that is less than significant by implementation of mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential create a hazard to public or the environment as a result of being located on a site that is included on a list of hazardous material sites compiles pursuant to Government Code Section 65962.5. Incorporation of Mitigation Measure **MM 4.8-14**, described above, and Mitigation Measures **MM 4.8-17** and **MM 4.8-18**, as described below in the findings regarding Impact 4.8-5, into the Project will lessen the impacts to a level that is less than significant:

Significant Effect:

Without mitigation, the Project has the potential to result in a safety hazard for people residing or working those portions of the Project Area located within an adopted Airport Land Use Compatibility Plan (Impact 4.8-5).

Description of Specific Impact:

Currently, 10 oilfields are located within 2 miles of a public use airport (see Figure 4.8-7). The proposed amended ordinance does not have any specific restrictions associated with land use restrictions near airports or private airstrips; therefore, additional oil and gas activities could occur within close proximity of public use airport or private airstrip.

The Kern County Airport Land Use Compatibility Plan (ALUCP) specifies restrictions within designated zones surrounding airports to ensure that activities within those zones are compatible with the safe operation of the airport. If oil and gas-related development activities are proposed in the vicinity of one of the 16 airports identified in the Kern County ALUCP, some activities may not be compatible with the ALUCP and, therefore, would have a significant impact. Drilling rigs and storage tanks could exceed height limits in certain airport influence zones. Lighting on drilling rigs, tanks, roads, pumps, and other facilities could exceed restrictions on lighting type, design, and placement in certain airport influence zones. Whether oil and gas activities would pose a hazard to navigation would be determined by the FAA in response to notification of that agency of a proposed Project. Therefore, oil and gas development related equipment heights and lighting placement/design could create a significant hazard to aviation safety, with attendant potential impacts to people and the environment, in the vicinity of a public use airport.

Finding:

Without mitigation, the Project has the potential to create a significant safety hazard for people residing or working those portions of the Project Area located within an adopted Airport Land Use Compatibility Plan. However, this potentially significant adverse impact will be reduced to a level that is less than significant by implementation of mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to result in a safety hazard for people residing or working those portions of the Project Area located within an adopted Airport Land Use Compatibility Plan. The following mitigation measure will be incorporated into the Project to reduce this impact to a level that is less than significant:

MM 4.8-17 The Applicant shall determine whether any proposed construction or alteration meets requirements for notification of the Federal Aviation Administration. If a proposed construction or alteration is found to require notification, the Applicant

shall notify the Federal Aviation Administration and request that the Federal Aviation Administration issue a Determination of No Hazard to Air Navigation. If the Federal Aviation Administration determines that the construction or alteration would result in a potential hazard to air navigation, the Applicant would be required to work with the Federal Aviation Administration to resolve any adverse effects or airport operations. The Applicant shall notify the Federal Aviation Administration and the nearest Airport, by completing and submitting Federal Aviation Administration Form 7460-1 if oil and gas related exploration, production, or associated development activities are planned that meet one or more of the following criteria:

a. Any construction or alteration exceeding 200 feet above ground level.

b. Any construction or alteration within 20,000 feet of all public use airports except Poso-kern Airport which exceeds a 100:1 surface from any point on the runway.

c. Any construction or alteration within 10,000 feet of the Poso-Kern Airport which exceeds a 50:1 surface from any point on the runway.

d. Any construction or alteration within 5,000 feet of a public use heliport which exceeds a 25:1 surface.

e. When requested by the Federal Aviation Administration.

f. Any construction or alteration located on a public use airport or heliport regardless of height or location.

MM 4.8-18 The Applicant shall determine the distance from the proposed operation to the nearest boundary of the Joint Service Restricted R-2508 Complex, using a map of this Complex provided by the County. The Applicant shall notify the Joint Service Restricted R2508 Complex representative identified by the County if oil and gas related exploration, production, or associated development activities are planned that meet one or more of the following criteria:

a. Any structure within 75 miles of the R-2508 Complex that is greater than 50 feet tall.

b. Any project within 50 miles of the R-2508 Complex that emit radio and communication frequencies.

c. Any project that would create environmental impacts such as visibility or elevated obstructions within 25 miles of the R-2508 Complex.

MM 4.8-19 All oil and gas related development activities shall review the Kern County Airport Land Use Compatibility Plan for compliance with all applicable policies.

Significant Effect:

Without mitigation, the Project has the potential to expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands (Impact 4.8-8).

Description of Specific Impact:

The Project Area is characterized by the mostly agricultural floor of the San Joaquin Valley, forest or grassland covered hills, and urban environments, each of which has an associated fire risk. The combination of seasonally hot weather, dry climate, wind, and fuel load result in areas of moderate to very high fire severity as indicated in the Kern Multi-Jurisdiction Hazard Mitigation Plan. According to the Kern Multi Jurisdiction Hazard Mitigation Plan, areas of the San Joaquin Valley are mostly mapped as having a fire severity rating of less than moderate due to the lack of fuel. Hills surrounding the San Joaquin Valley are rated with mostly moderate and high severity with areas of very high severity near the southern and northwestern boundary of the Project Area. Most oilfields are located in areas with moderate fire hazard severity or are located in non-wildland/non-urban areas.

Construction and operational activities, such as brush clearing, welding, cutting, grinding, and blasting, could occur anywhere in the Project Area. In certain locations, these activities could increase the potential for wildland fires. Although the exact location of future oil and gas development is not known within the Project Area, activities associated with the implementation of the Project could result in a significant risk of wildland fires that could result in loss, injury, or death.

Finding:

Without mitigation, the Project has the potential to expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands. This potential impact will be reduced to a level that is less than significant with implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands. The following mitigation measures will be incorporated into the Project to lessen the impacts to a level that is less than significant:

MM 4.8-20 The Applicant is required to implement the following measures:

a. Comply with Kern County Fire Codes.

b. Maintain firefighting apparatus and supplies required by the Kern County Fire Department.

c. Maintain of a list of all relevant fire-fighting authorities for each work site.

d. Have available equipment to extinguish incipient fires and or construction of a fire break, such as: chemical fire extinguishers, shovels, axes, chain saws, etc.

e. Carry water or fire extinguishers and shovels in non-passenger vehicles in the field.

f. Have and maintain an adequate supply of fire extinguishers for welding, grinding, and brushing crews.

g. Use available resources to protect individual safety and to contain any fire that occurs and notify local emergency response personnel.

h. Remove any flammable wastes generated during oil and gas activities regularly.

i. Store all flammable materials used in oil and gas activities away from ignition sources and in approved containers.

j. Allow smoking only in designated smoking areas.

k. Prohibit smoking where flammable products are present and when the fire hazard is high. Train personnel regarding potential fire hazards and their prevention.

l. All internal combustion engines, stationary and mobile, shall be equipped with spark arresters. Spark arresters shall be in good working order.

m. Light trucks and cars with factory-installed (type) mufflers shall be used only on roads where the roadway is cleared of vegetation. Said vehicle types shall maintain their factory-installed (type) muffler in good condition.

n. Fire rules shall be posted on the Project bulletin board at the contractor's field office and areas visible to employees.

o. Equipment parking areas and small stationary engine sites shall be cleared of all extraneous flammable materials.

p. Personnel shall be trained in the practices of the Fire Safety Plan relevant to their duties. Construction and maintenance personnel shall be trained and equipped to extinguish small fires in order to prevent them from growing into more serious threats.

MM 4.8-21 The Applicant should restrict the use of chainsaws, chippers, vegetation masticators, grinders, tractors, torches, and explosives at its locations, and ensure the sites where this equipment is used are equipped with portable or fixed fire extinguishers and/or a water tank, with hoses, fire rakes, and other tools to extinguish and or control incipient stage fires. The Worker Environmental Awareness Program shall include fire prevention and response training for workers using these tools.

Significant Effect:

Without mitigation, the Project has the potential to generate vectors or have a component that includes agricultural waste exceeding adopted qualitative thresholds (Impact 4.8-9).

Description of Specific Impact:

Oil and gas activities that would be authorized under this Project do not involve the generation of agricultural or food waste; however, implementation of the Project would involve construction and operations that could result in standing water, trash piles, or open containers that could provide breeding areas for mosquitoes, flies, or rodents. These potential disease vectors could pose a potential hazard to personnel or the public.

Construction of the Project would occur in an area favorable to the growth of the Valley Fever vector, the fungus *Coccidioides immitis*, which grows in soils in areas of low rainfall, high summer temperatures, and moderate winter temperatures. Project construction would disturb the soil and cause the fungal spores to become airborne, potentially putting construction personnel and wildlife at risk of contracting Valley Fever; however, most Valley Fever cases are very mild, and more than half of infected people either have no symptoms or experience flu-like symptoms and never seek medical attention. In addition, mitigation for dust control, as described in Section 4.3, Air Quality, would minimize the spread of fungal spores. Oil and gas activities that would be authorized under this Project have the potential to generate disease vectors which could pose a hazard to personnel or the public, therefore, impacts could be significant.

Finding:

Without mitigation, the Project has the potential to generate vectors or have a component that includes agricultural waste exceeding adopted qualitative thresholds. This impact will be reduced to a level that is less than significant by implementing the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to generate vectors or have a component that includes agricultural waste exceeding adopted qualitative thresholds. The dust control and Valley Fever education and mask measures described in EIR Section 4.3, Air Quality, and the following mitigation measure will be incorporated into the Project to reduce this impact to a level that is less than significant:

MM 4.8-22 Applicants shall ensure that trash is stored in closed containers and removed from the site at regular intervals. Open containers shall be inverted and construction ditches shall not be allowed to accumulate water. Construction and maintenance operations shall not generate standing water. Naturally occurring depressions, drainages, or pools at the site shall not be drained or filled without consulting with the appropriate resource agency (Kern County, United States Army Corps of Engineers, United States Fish and Wildlife Service, California Department of Fish and Wildlife) as applicable, and obtaining the appropriate permits.

C. Environmental Effects of the Project That Cannot Be Mitigated to a Level Less Than Significant.

None.

D. Cumulative Environmental Effects of the Proposed Project That Will Have a Less Than Significant Impact on the Environment.

Significant Effect:

Without mitigation, the Project has the potential to contribute to significant cumulative hazards and hazardous materials impacts (Impact 4.8-10).

Description of Specific Impact:

Since oil and gas activities could occur anywhere in the Project Area, it is not possible to analyze the combined impacts of hazards or a release of hazardous materials and wastes from the Project and existing or reasonably foreseeable projects at a specific location.

With regard to the creation of a hazard through the routine transport, use, or disposal of hazardous materials (Impact 4.8-1), a potentially significant impact could result if a spill or leak were to occur during oil and gas construction or operation activities; however, compliance with state and county regulations and the mitigation measures outlined above would ensure that impacts would remain less than significant. This impact does not have the potential to combine with contamination from spills from other projects within 0.5 mile of the site to result in a cumulative impact due to the site-specific nature of soil contamination and the mitigation measures that would ensure proper cleanup and disposal of contaminated soil. Cumulative contamination of groundwater is discussed in Section 4.9, Hydrology and Water Quality. Therefore, impacts of the Project would not be expected to make a cumulatively considerable contribution, in combination with impacts from past, present, or reasonably foreseeable projects, to result in a cumulative impact.

With regard to creation of a hazard through upset or accident conditions involving a hazardous material release (Impact 4.8-2), the potential exists for oil and gas activities through the implementation of the Project to result in the release of hazardous materials in the soil resulting in exposure of personnel and other sensitive receptors to contaminant levels that could result in short-term and/or long-term health effects. Additionally, releases from pipelines could pose a hazard to personnel and the public; however, conformance with existing state and county regulations, Project safety design features, and implementation of the mitigation measures identified above would render this impact less than significant. This impact does not have the potential to combine with impacts of other projects because of the localized nature of the impacts, and because appropriate safety, cleanup, and disposal methods would be implemented to reduce the impact to a level that would not combine with impact of other projects. Therefore, impacts of the Project would not have the potential to make a cumulatively considerable contribution in combination with impacts from past, present, or reasonably foreseeable projects to result in a cumulative impact.

With regard to creation of a hazard to the public or the environment as a result of being located on a site that is included on a list of hazardous material sites compiled pursuant to government code section 65962.5, although the exact location of new oil and gas development is not known, implementation of MM 4.8-3 and 4.8-15 would ensure that the Applicant not only has a method to address unanticipated contamination, but they have also proactively evaluated whether there is a potential hazardous waste site where they would be operating and have made measure to avoid disturbing it. Therefore, impacts of the Project would not have the potential to combine with impacts from past, present, or reasonably foreseeable projects to result in a cumulative impact.

With regard to the creation of a safety hazard for a project located within the Kern County ALUCP, oil and gas activities could occur within the Kern County ALUCP, and therefore, do have the

potential to result in creation of a safety hazard to air navigation. However, the Project would be required to comply with County zoning requirements and FAA regulations to ensure that impacts remain less than significant (Impact 4.8-4). With the implementation of MM 4.8-14, 4.8-17, and 4.8-18, in conjunction with compliance with existing rules, the Project does not have the potential to combine with impacts of other projects. Therefore, impacts of the Project would not have the potential to make a cumulatively considerable contribution, in combination with impacts from past, present, or reasonably foreseeable projects, to result in a cumulative impact.

With regard to interference with an adopted emergency response plan or emergency evacuation plan (Impact 4.8-5), it would be unlikely that Project-related activities would interfere with the Lake Isabella emergency response/evacuation. The Project's less-than-significant impact has the potential to combine with other current and future projects that would generate high volumes of traffic on area roadways by creating a cumulative traffic burden on regional roadways; however, given the overall rural nature of the Project Area, and the fact that the Kern Council of Governments Regional Transportation Plan took in account traffic volumes from anticipated projects, the potential for a considerable contribution to a cumulative impact to emergency response is unlikely to occur, and would therefore be less than significant.

With regard to exposing people or structures to a wildland fire hazard (Impact 4.8-6), construction and maintenance would increase the likelihood of wildfire ignition; however, implementation of MM 4.8-19 outlined above would substantially reduce the possibility of a Project-related ignition, rendering this impact less than significant. Mitigation would reduce this impact to a level that would not combine with other projects. Therefore, impacts of the Project would not have the potential to make a cumulatively considerable contribution, in combination with impacts from past, present, or reasonably foreseeable projects, to result in a cumulative impact.

With regard to generating disease vectors (Impact 4.8-7), oil and gas construction activities could disturb the Valley Fever vector or attract other disease vectors by allowing standing water, trash piles, or open containers to accumulate at the Project site, potentially resulting in a hazard to construction personnel or the general public. However, implementation of the MM 4.8-20 described above would reduce this impact to a less than significant level. Mitigation would reduce this impact to a level that would not combine with other projects, therefore, impacts of the Project would not have the potential to make a cumulatively considerable contribution, in combination with impacts from past, present, or reasonably foreseeable projects, to result in a cumulative impact.

Finding:

Without mitigation, the Project has the potential to contribute to significant and cumulative impacts to the hazards and hazardous materials. However, with implementation of the mitigation measures described below, these impacts will be reduced to a level that is less than significant.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to contribute to significant and cumulative impacts to the hazards and hazardous materials. Mitigation Measures **MM 4.8-1** through **MM 4.8-22**, as described above, along with the dust control and Valley Fever education and mask mitigation measures described in section II(3) of these findings related to Air Quality, the risk reduction mitigation measures described in section II(6) of these findings related to Geology and Soils, and the mitigation measures to maintain water quality described in section II(8) of these findings related to Hydrology and Water Quality, will be incorporated into the Project to reduce this impact to a level that is less than significant.

E. Cumulative Environmental Effects of the Proposed Project That Will Have a Significant Impact on the Environment.

None.

9. HYDROLOGY AND WATER QUALITY

A. Environmental Effects of the Project Found to Have No Impact on the Environment, or Have a Less Than Significant Impact on the Environment.

The Project will not place structures within a 100-year flood hazard area as mapped on a federal flood hazard boundary or flood insurance rate map or other flood hazard delineation map (Impact 4.9-7).

The Project will not contribute to inundation by seiche, tsunami, or mudflow (Impact 4.9-10).

B. Environmental Effects of the Project That Are Potentially Significant, but That Can Be Mitigated to Less Than Significant Levels.

Significant Effect:

Without mitigation, the Project has the potential to violate water quality standards or waste discharge requirements (Impact 4.9-1).

Description of Specific Impact:

Construction period activities that disturb soils and surface vegetation could mobilize sediment, debris and other site constituents that may be transported to surface water or percolate into groundwater due to storm event runoff, nuisance flows, or to a lesser extent by vehicle tracking, potentially causing exceedances of water quality standards if not controlled and therefore, there could be significant impacts. Moreover, well construction and reworking utilize and generate drilling fluids and mud that could be accidentally discharged to surface water or groundwater, potentially causing exceedances of water quality standards if not controlled and therefore, there could be significant impacts.

The potential for surface or subsurface discharges from well-construction and reworking activity could be significant without the implementation of mitigation measures. Drilling muds and fluids could also come into contact with groundwater prior to the installation of well casing and cement or in the event of a well failure during well construction or reworking. Discharges to groundwater could occur in the event of a well failure or blowout during construction. Under certain circumstances, drilling muds and fluids may be comingled with oil and or gas from hydrocarbon-bearing formations and contact subsurface aquifers before the well casing and cementing process is completed or in the event of a blowout. Also, surface spills or leaks could occur during the conveyance, mixing and application of fluids and other chemicals during construction. However, the relatively low volume of higher quality M&I water used for well plugging and abandonment, and the limited amount of potentially hazardous materials that could be purged during the closure process, reduces the risk that closure construction activities could significantly affect surface water or groundwater quality to less than significant with the mitigation.

Operational activities related to oil well and facility maintenance, oil or produced water conveyance by truck, the staging and completion of well stimulation treatments, including use of trucks, storage

tanks, and pumps, and the conveyance and application of EOR-related steam or water, well reworking, and plugging and abandonment, could generate soils, debris or constituents that could be mobilized by stormwater runoff, or vehicle tracking, and reach surface water or percolate into groundwater and could result in significant impacts to water quality. Also, during Project operations, surface spills or leaks could occur from ruptured or leaking tanks, pipes, valves, hoses, and treatment and other process equipment used during operational oil, gas, produced water, M&I water, and chemical site treatment, conveyance, storage, and mixing and preparation activities. However, with mitigation, potential impacts would be less than significant.

As shown in EIR Table 4.9-27, under Project conditions, the use of produced water for EOR purposes is expected to increase from about 88,668 AF in 2012 to over 121,215 AF per year in 2035, or by 32,547 AF. EOR activities could result in unintended discharges to groundwater in the event of a casing or well failure, which might allow injected steam or produced water to migrate from breach locations to other water-bearing formations. Although produced water use for EOR generally cycles water from hydrocarbon-bearing formations to the surface for treatment and reinjection into the same or similar hydrocarbon-bearing formations, injection into a non-exempt underground source of drinking water (USDW) could significantly impact water quality in or near the affected zones.

EIR Section 4.9, Hydrology and Water Quality, analyzes three projections of Project-related water use in 2035 based on the Applicant's demand estimates were developed to analyze a range of potential water demand and supply outcomes, as summarized in EIR Table 4.9-27. All of the scenarios assume that the amount of produced water generated by oil and gas exploration and production would increase by 38% by 2035 from 2012 levels. The three scenarios (Scenarios 1, 2, and 3) focus on potential variation in the amount of surface pond disposal, injection well disposal, and reuse of produced water that could occur under future conditions. Scenario 1 projects that 41,806 AF would be disposed to surface ponds in 2035, an increase of over 10,000 AF from 2012. Water quality impacts from the increased use of ponds that the CVRWQCB has determined to have affected groundwater quality would be significant without mitigation. Scenario 2 assumes that surface disposal volumes are reduced to 50% of 2012 levels, or to 15,112 AF by 2035. Potential water quality impacts from pond use would be lower than under Scenario 1, but not necessarily avoided. Scenario 3 assumes that surface disposal is reduced to 90% below 2012 levels or to 3,022 AF in 2035. Potential water quality impacts from pond use levels in Scenario 3 would be lower than under Scenario 1, and Scenario 2, but impacts to groundwater quality could still occur from the remaining disposal to unlined surface impoundments.

In lieu of ponds for disposal, oil and gas operators are increasingly discharging produced water to Class II injection wells. Injection well disposal could result in a discharge to groundwater in the event of a casing or well failure that allows injected materials to move from breach locations into other water-bearing formations. As the volume of waste disposal accumulates over time in specific zones, the discharge formation and portions of the well structure could become pressurized and subject to stresses that could increase the risk of well failure and groundwater impacts could increase. Without mitigation, waste disposal injection into a non-exempt USDW could significantly impact water quality in the affected zones.

Well stimulations in the Project Area have primarily consisted of hydraulic fracturing and acid matrix treatments. These technologies are expected to account for most forms of well stimulation in the future. Potential water quality impacts associated with well stimulations include unpermitted discharges of stimulation flowback fluids to drilling sumps or other surface impoundments, and unintended contact with groundwater due to well failures or casing leaks, as well as potential impacts from surface discharges, as discussed above. Although nearly 2,000 well stimulation

treatments were performed in the Project Area during 2011 through 2014, there has never been a confirmed report of any well stimulation-related discharges to, or adverse effect, on surface or ground water although the potential exists for a release which could result in a significant impact.

In sum, significant impacts could occur during both construction and operations that could result in a violation of water quality standards waste discharge requirements. However, with the implementation of mitigation measures, construction and operational period impacts would be less than significant with mitigation.

Finding:

Without mitigation, the Project has the potential to violate water quality standards or waste discharge requirements. This impact will be reduced to a less than significant level by implementation of mitigation measures.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to violate water quality standards or waste discharge requirements. The following mitigation measures will be incorporated into the Project to reduce this impact to a level that is less than significant.

MM 4.9-1 The Applicant shall comply with all applicable federal, state, regional and local agency water quality protection laws and regulations, and commonly utilized industry standards, including (where applicable) obtaining coverage under the stormwater construction general permit and industrial general permit issued by the State Water Resources Control Board and complying with industry stormwater management standards for construction and operational activities. The applicant shall obtain all required permits from Division of Oil Gas and Geothermal Resources, and such permits shall include measures that will safeguard protected groundwater with appropriate casing, seal and related down-hole technical specifications.

MM 4.9-2 A. Oil and Gas Activities in Tier 1 shall comply with the following:

1. In areas subject to National Pollutant Discharge Elimination System stormwater permitting requirements, project applicants shall file a Notice of Intent to the State Water Resources Control Board to comply with the statewide General Permit for Discharges of Stormwater Associated with Construction Activities (Construction General Permit State Water Resources Quality Control Board Order No 2009-009-DWO) prior to undertaking all ground-disturbing activities greater than one acre and shall prepare and implement a Stormwater Pollution Prevention Plan for construction activities on the Project site in accordance with the Construction General Permit. For facilities requiring coverage under the Construction General Permit, the site specific Stormwater Pollution Prevention Plan shall include measures to achieve the following objectives: (1) all pollutants and their sources, including sources of sediment associated with construction activity are controlled; (2) all non-stormwater discharges are identified and either eliminated, controlled and treated, (3) site Best Management Practices are effective and result in the

reduction or elimination of pollutants in stormwater discharges and authorized non-stormwater discharges from construction activity and (4) stabilization Best Management Practices to reduce or eliminate pollutants after construction are completed. The Stormwater Pollution Prevention Plan shall be prepared by a qualified preparer and shall include the minimum Best Management Practices required for the identified risk level. The Stormwater Pollution Prevention Plan shall include a construction site monitoring program that identified requirements for dry weather visual observations of pollutants at all discharge locations and, as appropriate, depending on the project risk level, sampling of site effluent and receiving waters. A qualified Stormwater Pollution Prevention Plan practitioner shall be responsible for implementing and all monitoring for the Best Management Practices as well as all inspection, maintenance and repair activities at the project site. If applicable, each project shall also implement and fully comply with the Industrial Storm Water Permit (Order No 97-03-DWO) and Kern County Municipal Stormwater Permit (Order No 5-01-120). All plans under these requirements shall be submitted to Kern County Public Works for review and approval.

2. Any operator of a facility that meets the following requirements is not required to be covered by the Construction General Permit (State Water Regional Control Board Memorandum dated 5-18-2010):

    a. discharges of stormwater runoff from oil and gas exploration, production, processing or treatment operations or transmission facilities, including field activities or operations that may be considered construction activity;

        1. are not contaminated by contact with, or do not come into contact with, any overburden, raw material, intermediate products, finished product, byproduct or waste products;

        2. are only contaminated by or only come into contact with sediment; and

        3. pursuant to 40.C.F.R. § 122.26(c)(1) (iii) that do not contribute to a violation of a water quality standard.

Any change to this State Water Regional Control Board determination will require full compliance with National Pollutant Discharge Elimination System requirements.

3. Any operator not subject to National Pollutant Discharge Elimination System stormwater permitting requirements shall implement Best Management Practices during construction and operation. All selected practices shall be shown on a drainage implementation plan and self-certified as complete and feasible by a licensed professional qualified in drainage and flood control issues. The plan shall be submitted to the Kern County Planning and Community Development department.

EXHIBIT B

The following Best Management Practices shall be implemented and shown on the drainage implementation plan :

a. Utilizing established facilities design, construction or similar standards as appropriate (e.g., American Society for the Testing and Materials (ASTM) American Petroleum Institute (API)).

b. Implementation good housekeeping and maintenance practices:

   i. Preventing trash, waste materials and equipment from construction storm water.

   ii. Maintaining wellheads, compressors, tanks and pipelines in good condition without leaks or spills.

   iii. Designing and maintaining graded pads to not actively erode and discharge sediment

   iv. Maintaining vehicles in good working order

   v. Providing secondary containment for all above-ground storage tanks and maintaining such containment features in good operating condition

c. Implementing spill prevention and response measures

   i. Utilizing preventative operating practices such as tank level monitoring, safe chemical handling and conducting regular inspections.

   ii. Developing and maintaining a spill response plan

   iii. Conducting spill response training for employees and have a process to ensure contractors have the necessary training

   iv. Maintaining spill response equipment on site.

d. Implementing material storage and management practices:

   i. Preventing unauthorized access

   ii. Utilizing “run-on” and “run-off” control berms and swales

   iii. Stabilizing exposed slopes through vegetation and other appropriate methods (e.g., hay bales or rolls).

B. Oil and gas activities outside Tier 1 shall comply with all applicable state and federal stormwater management laws. For any oil and gas activity outside Tier 1 that is not subject to state or federal stormwater management laws, regulations or general permits, the Applicant shall prepare a drainage plan that is designed to minimize runoff and minimize the potential for impeding or redirecting 100-year flood flows. The drainage plan shall be prepared in accordance with the Kern County Grading Code, the Green Code and approved by the Kern County Department of Public Works, Floodplain Management Section. The plan shall specify best management practices to prevent all construction pollutants from contacting stormwater, with the intent of keeping sedimentation or any other pollutants from moving offsite and into receiving waters. The requirements of the Plan shall be incorporated into design specifications. Recommended best management practices for the construction phase must be shown on a drainage plan, and shall include the following:

a. Erosion Control -

    1. Scheduling of construction activities to avoid rain events.

    2. Limiting vegetation removal to the minimum required.

b. Sediment Control -

    1. Secure stockpiling of soil.

    2. Installation of a stabilized construction entrance/exit and stabilization of disturbed areas.

c. Non-stormwater Control -

    1. Proper fueling and maintenance of equipment and vehicles.

    2. Proper concrete handling techniques.

d. Waste and Material Management -

    1. Properly managing construction materials, designating construction staging areas in or around the Project site.

    2. Stockpiling and disposing of demolition debris, concrete, and soil properly.

    3. Prompt removal and proper disposal of litter.

    4. Proper disposal of demolition debris, concrete and soil.

    5. Proper protections for fueling and maintenance of equipment and vehicles.

    6. Provide and maintain adequate secondary containment to minimize or eliminate pollutants from moving offsite and into receiving waters.

e. Post-Construction Stabilization -

1. Ensuring the stabilization of all disturbed soils per revegetation or application of a soil binder.

C. If construction activities will alter federal jurisdictional waters, project applicants shall comply with the federal Clean Water Act Section 404 and Section 401 permitting and certification requirements. If construction activities will alter state waters, project applicants shall comply with California Department of Fish and Wildlife Streambed Alteration requirements.

MM 4.9-3 All drilling operations must either use a closed loop system to avoid discharges of drilling muds and fluids, or obtain coverage under the State Water Resources Control Board low threat discharge General Order (Waste Discharge Requirements General Order 2003-0003-DEW), obtain individual Waste Discharge Requirements issued by the Central Valley Regional Water Quality Control Board for the unit, or obtain coverage under a general order issued by the Central Valley Regional Water Quality Control Board applicable to drilling ponds. Any surface ponds or sumps must be cleared of fluids and muds in accordance with the State Water Resources Control Board general order, applicable Water Discharge Requirements and Division of Oil Gas and Geothermal Resources regulations. Compliance with the State Water Resources Control Board or Central Valley Regional Water Quality Control Board low-threat discharge orders or Water Discharge Requirements, if closed-loop systems are not used, and applicable laws, regulations and standards will reduce potential surface water quality impacts from contact with drilling muds or fluids during drilling and construction to less than significant levels.

After consultation with and approval by the Regional Water Board with jurisdiction over injection and groundwater, applicant shall provide for a tracer or some other reasonable method to allow well stimulation fluids to be distinguished from other fluids or chemicals for well stimulation permits. This could consist of an added tracer using an inert constituent that could be used to identify the presence of well stimulation fluids. Alternatively, it could be an intrinsic tracer, or some naturally occurring component that makes the well stimulation fluids chemically unique. Potential geochemical changes in the subsurface during injection or migration shall be considered. Use of a tracer shall be required to be disclosed to the public under Section 1788 of the SB 4 regulations. The regulations specifically require that the applicant require the composition and disposition of all well stimulation treatment fluids other than water, including “any radiological components or tracers injected into the well as part of the well stimulation treatment, a description of the recovery method, if any, for those components or tracers, the recovery rate, and specific disposal information for the recovered components or tracers a radiological component or tracer injected” (Section 1788 (15)).

For any well stimulation treatment activity, the applicant shall not conduct well stimulation treatment activity until the State Water Resources Control Board, in consultation with the Central Valley Regional Water Quality Control Board, has approved either a groundwater monitoring plan or exclusion from groundwater monitoring for a given well, consistent with the State Water Resources Control

Board Model Criteria for Groundwater Monitoring in Areas of Oil and Gas Well Stimulation.

MM 4.9-4 For any activity for which Chapter 19.98 applies, the Applicant shall not conduct any Class II injection activity regulated by the Underground Injection Control program, including enhanced oil recovery activities that discharge into any underground source of current or future beneficial use groundwater, including drinking water, unless the aquifer has been exempted by the United States Environmental Protection Agency or injection has otherwise been authorized by the U.S. Environmental Protection Agency or by the Division of Oil Gas and Geothermal Resources, in consultation and agreement by the State Water Resources Control Board, consistent with Public Resources Code 3131.

MM 4.9-5 For any activity for which Chapter 19.98 applies, the Applicant shall not discharge produced water into any surface disposal facility unless the facility has received the Waste Discharge Requirements from the Central Valley Regional Water Quality Control Board, or the need for Water Discharge Requirements has been waived by the Central Valley Regional Water Quality Control Board. As required by the SB 4 regulations, well stimulation treatment fluids and produced fluids from wells that have been stimulated cannot be stored, discharged, or disposed into surface ponds or pits.

MM 4.9-6 For any oil and gas activity within a Special Flood Hazard Area, the Applicant shall ensure that all constructed facilities are elevated or floodproofed in compliance with the requirements and standards found in the Kern County Floodplain Management Ordinance and Chapters 19.50 and 19.70 of the Kern County Zoning Code.

Significant Effect:

Without mitigation, the Project has the potential to substantially alter the existing drainage patter of the site or area, including through alteration of the course of a stream or river, in a manner that would result in substantial erosion or siltation on-site or off-site (Impact 4.9-3).

Description of Specific Impact:

Construction and operational activities could alter new well site topography and soil and vegetation conditions in a manner that could affect drainage patterns. Site preparation and the installation of wells and related equipment would also change the amount of impervious surfaces and runoff retention rates within new development areas. Without mitigation, such Project impacts are potentially significant.

Finding:

Without mitigation, the Project has the potential to substantially alter the existing drainage patter of the site or area, including through alteration of the course of a stream or river, in a manner that would result in substantial erosion or siltation on-site or off-site. With mitigation, this impact would be reduced to a less than significant level.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to substantially alter the existing drainage patter of the site or area, including through alteration of the course of a stream or river, in a manner that would result in substantial erosion or siltation on-site or off-site. Mitigation Measures **MM 4.9-1** through **MM 4.9-6**, described above, along with the groundwater mitigation measures described in section II(17) of these findings related to Utilities and Service Systems, will be incorporated into the Project and would reduce this impact to a less than significant level.

Significant Effect:

Without mitigation, the Project has the potential to substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner that would result in flooding on-site or off-site (Impact 4.9-4).

Description of Specific Impact:

Based on the conservative impact estimates, the potential development of 2,697 new production wells per year in the Project Area could disturb up to 4,856 acres per year. Over 90%, or 4,400 acres, of this disturbance would be located in existing Tier 1 areas that are currently subject to the highest level of existing disturbance from prior oil and gas exploration and production activities. New well development could disturb up to 298 acres in Tier 2 areas where agriculture is the predominant land use, and up to 158 acres in Tiers 3 through 5. Construction and operational activities, site preparation and installation of wells and related equipment could also change existing drainage patterns and runoff rates and result in on or offsite flooding.

Finding:

Without mitigation, the Project has the potential to substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner that would result in flooding on-site or off-site. With mitigation, this impact would be reduced to a less than significant level.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner that would result in flooding on-site or off-site. Mitigation Measures **MM 4.9-1** through **MM 4.9-6**, described above, along with the groundwater mitigation measures described in section II(17) of these findings related to Utilities and Service Systems, will be incorporated into the Project and would reduce this impact to a less than significant level.

Significant Effect:

Without mitigation, the Project has the potential to create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff (Impact 4.9-5).

Description of Specific Impact:

About 97.4% of the Project Area consists of Tier 1 lands (10.1%) in which oil and gas activities are the predominant land use, or Tier 2 lands (87.3%) where agriculture is the predominant use. In addition, 97% of the projected annual disturbance of up to 4,856 acres would occur in Tier 1 (4,400 acres) or Tier 2 (298 acres) areas. Urban-scale constructed stormwater drainage systems occur to a limited extent in Tier 1 and Tier 2 areas. Most drainage is managed on a site-specific basis in Project Area oilfields and agricultural locations. Potential Project-related development in Tiers 3 through 5 could produce runoff to existing or planned regional or constructed stormwater drainage systems. The extent of the potential new development would affect at most 0.3% of the acreage in Tiers 3 through 5 per year and would not generate new sources of runoff that could significantly impact existing or planned drainage systems in these locations; therefore, impacts would be less than significant

Runoff water and potential polluted runoff risks would be managed by site-specific stormwater and runoff management measures. As discussed above, oil and gas operations that are located in close proximity with or on sites that are hydrologically connected to waters of the United States are generally subject to the requirements of the Construction General Permit and Industrial General Permit adopted by the SWRCB unless otherwise subject to exemption or waiver. These permits require strict compliance with water quality standards through the implementation of BMPs and other measures. The API and other sources of applicable industry engineering standards publish and regularly update oil and gas industry standards and criteria for stormwater and runoff management. With the implementation of MM 4.9-1 and MM 4.9-2, any potential impact would be further reduced.

Finding:

Without mitigation, the Project has the potential to create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff. With mitigation, this impact would be reduced to a less than significant level.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff. Mitigation Measures **MM 4.9-1** through **MM 4.9-6**, described above, will be incorporated into the Project and would reduce this impact to a less than significant level.

Significant Effect:

Without mitigation, the Project has the potential to otherwise substantially degrade water quality (Impact 4.9-6).

Description of Specific Impact:

The Basin Plan incorporates the SWRCB anti-degradation policy (SWRCB Resolution No. 68-16) and requires that "high-quality waters of the state" be maintained consistent with the maximum benefit to the people of the state. The purpose of this policy is to prevent or minimize degradation of high quality surface waters and groundwater. The Basin Plan also incorporates the SWRCB sources of drinking water policy (SWRCB Resolution No. 88-63), which provides that all surface and ground waters of the state "are considered to be suitable, or potentially suitable, for municipal

or domestic water supply and should be so designated by the RWQCBs with the exception of" waters in which: (a) TDS levels exceed 3,000 mg/L (5,000 μmhos/cm electrical conductivity) and the aquifer cannot be reasonably expected to supply a public water system; (b) there is contamination, either by natural processes or by human activity (unrelated to a specific pollution incident), that cannot reasonably be treated for domestic use using either BMPs or best economically achievable treatment practices; or (c) the water source cannot provide sufficient water to supply a single well capable of producing an average, sustained yield of 200 gallons per day. The Basin Plan defines "groundwater" to mean "subsurface water that occurs beneath the ground surface in fully saturated zones within soils and other geologic formations."

To implement the SWRCB sources of drinking water policy, the Basin Plan has designated all ground waters in the Tulare Lake region, including all groundwater in the Project Area, as suitable for municipal (MUN) beneficial uses unless specifically exempted by the CVRWCB and approved for exemption by the SWRCB. The MUN beneficial use includes drinking water and water for domestic purposes. As discussed in the Basin Plan, factors the CVRWQCB considers when making exemptions to the MUN ground water designation include the exception criteria listed in Resolution No. 88-63 (discussed above), and whether a specific aquifer has been exempted by the EPA under the UIC program. As shown on EIR Figure 4.9-11, based on the list of approved groundwater MUN designations in the Table II-2 of the Basin Plan, most of the Project Area groundwater is subject to a MUN beneficial use designation. The SWRCB sources of drinking water policy includes an exception for an aquifer that "is regulated as a geothermal energy producing source or has been exempted administratively pursuant to 40 Code of Federal Regulations, Section 146.4 for the purpose of underground injection of fluids associated with the production of hydrocarbon or geothermal energy, provided that these fluids do not constitute a hazardous waste under 40 CFR, Section 261.3" (SWRCB Resolution No. 88-63 [1988], as amended by Resolution No. 2006-0008 [2006]). State and federal agencies are currently updating the status of aquifer exemptions in the Project Area. EIR Figure 4-9.11 identifies the locations in the Project Area where the groundwater MUN beneficial use has been removed by the CVRWQCB in the Basin Plan.

Except for a limited number of injection wells that are the subject of the UIC program review and revision process being conducted by DOGGR, the SWRCB, and the EPA, and one case in which surface disposal was judicially determined to impair water supplies used in an adjacent orchard, oil and gas activities in the Project Area primarily affect groundwater with TDS levels substantially above 3,000 mg/L and that cannot be reasonably expected to supply a public water system. Groundwater in hydrocarbon-bearing zones has also been impacted by natural processes, including substantial deposits of oil, gas and other hydrocarbons and related constituents, and by human activity, including decades of prior oil and gas exploration and production activity. A substantial amount of the water that could be derived from hydrocarbon-bearing formation cannot reasonably be treated for domestic use. With the possible exception of the eight oilfield aquifers in the Project Area that DOGGR has determined were not clearly exempted under the UIC, aquifers subject to oil and gas injection, stimulation treatment or other discharges that may affect water quality would usually not meet the SDWA criteria for protection as an underground source of drinking water, or have been exempted in accordance with the UIC program.

The Basin Plan also discusses the March 1988 MOA between the SWRCB and DOGGR, under which DOGGR permits Class II injection wells in California subject to review and comment by the CVRWQCB and SWRCB. The Basin Plan indicates that the purpose of the MOA "is to ensure that the construction or operation of Class II injection disposal wells and the land disposal of wastewaters from oil, gas, and geothermal production facilities does not cause degradation of waters of the state." The Basin Plan further states that the MOA "provides a coordinated approach that results in a single permit satisfying the statutory obligations of both agencies."

The Basin Plan description of the MOA process, and the inclusion of specific MUN designation exception criteria in the 1988 SWRCB sources of drinking water policy, indicate that even if a MUN designation is applicable to most groundwater in the Project Area, permitted oil and gas activities would not degrade high-quality waters that could feasibly be used for MUN purposes and therefore the Project would have a less than significant impact to the water sources.

Finding:

Without mitigation, the Project has the potential to otherwise substantially degrade water quality. With mitigation, this impact would be reduced to a less than significant level.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to otherwise substantially degrade water quality. Mitigation Measures **MM 4.9-1** through **MM 4.9-6**, described above, along with the groundwater mitigation measures described in section II(17) of these findings related to Utilities and Service Systems, will be incorporated into the Project and would reduce this impact to a less than significant level.

Significant Effect:

Without mitigation, the Project has the potential to place within a 100-year flood hazard area structures that would impede or redirect flood flows (Impact 4.9-8).

Description of Specific Impact:

Without mitigation, Project-related oil and gas exploration and production activity, including new wells, infrastructure, and oil, gas, produced water and chemical treatment and storage facilities, could occur within Project Area land that is subject to a 100-year flood risk and impede or redirect flood flows in these areas. Flooding could also damage affected structures, or mobilize constituents of concern in floodwaters that are used in and gas exploration and production and could result in significant impacts.

Finding:

Without mitigation, the Project has the potential to place within a 100-year flood hazard area structures that would impede or redirect flood flows. With mitigation, this impact would be reduced to a less than significant level.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to place within a 100-year flood hazard area structures that would impede or redirect flood flows. Mitigation Measures **MM 4.9-1** through **MM 4.9-6**, described above, will be incorporated into the Project. Implementation of MM 4.9-1 through 4.9-6 would reduce the level of impacts to less than significant. These mitigations would requires that the applicant to comply with all applicable federal, state, regional, and local agency laws and regulations, and commonly utilized industry standards, including the Kern County Floodplain Management Ordinance, and KCGP and Zoning Code provisions related to floodplain risks. In addition, the applicant would have to implement management practices to avoid causing any adverse stormwater discharges and address potential impacts from potential oil and gas development in a 100-year floodplain.

Significant Effect:

Without mitigation, the Project has the potential to expose people or structures to a significant risk of loss, injury, or death involving flooding, including as a result of the failure of a levee or dam (Impact 4.9-9).

Description of Specific Impact:

About 93,400 acres of existing oil and gas administrative fields within the Project Area are subject to potential inundation in the event the Lake Isabella dam facilities, located in the Sierra Nevada mountains, 40 miles northeast of Bakersfield, experienced a catastrophic failure under full storage conditions. In the event of a catastrophic failure, released water would flow southeast along the Kern River towards Bakersfield and eventually flood downstream locations, including valley floor portions of the Eastern Subarea south of the river, most of the Central Subarea, and valley floor portions of the Western Subarea extending north along Interstate 5. Project-related oil and gas exploration and production activities, including new wells, infrastructure, and oil, gas, produced water, and chemical treatment and storage facilities, could occur and expose people or structures to a risk of harm within Project Area that is subject to inundation from a catastrophic failure of the Lake Isabella dam.

In 2008, the USACE analyzed the length of time that would elapse before potentially affected locations in the Project Area would be inundated to a depth of one foot. The analysis assumed that a catastrophic failure of the dam facilities would occur under full capacity conditions. The analysis shows that areas located near the eastern portion of the Kern River plain, and near Bakersfield, would reach one foot of inundation within 6 to 8 hours (Figure 4.9-19). One foot of inundation in the other potentially affected portions of the Project Area would occur over a period of from 8 to 36 hours.

Finding:

Without mitigation, the Project has the potential to expose people or structures to a significant risk of loss, injury, or death involving flooding, including as a result of the failure of a levee or dam. With implementation of the mitigation measures described below, this impact will be reduced to a less than significant level.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to expose people or structures to a significant risk of loss, injury, or death involving flooding, including as a result of the failure of a levee or dam. Mitigation Measures **MM 4.9-1** through **MM 4.9-6**, described above, along with the groundwater mitigation measures described in EIR Section 4.17, Utilities and Service Systems, will be incorporated into the Project and would reduce this impact to a less than significant level.

C. Environmental Effects of the Project That Cannot Be Mitigated to a Level Less Than Significant.

Significant Effect:

Without mitigation, the Project has the potential to substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there will be a net deficit in aquifer volume or a lowering of the local groundwater table level (Impact 4.9-2).

Description of Specific Impact:

The Project's potential groundwater impacts would be mitigated to less than significant levels if sufficient amounts of produced water otherwise subject to disposal were treated and reused to offset the consumption of M&I water for oil and gas exploration and production. The feasibility of achieving additional produced water reuse to offset oil and gas M&I water use in the Project Area, depends on several factors, including produced water quality, treatment costs and requirements, the availability of conveyance capacity to route produced water to and from treatment facilities, and the availability of institutional mechanisms for managing produced water treatment and distribution. At present, the extent to which oilfield operators can increase produced water reuse and decrease M&I demand is uncertain. As a result, potential impacts to groundwater levels and aquifer volumes would be significant and unavoidable with mitigation.

Finding:

Without mitigation, the Project has the potential to substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there will be a net deficit in aquifer volume or a lowering of the local groundwater table level. Potential impacts to groundwater supply and recharge from produced water generation, injection, and well stimulation would be less than significant with the implementation of MM 4.9-1 through 4.9-6. However as discussed in EIR Section 4.17, Utilities and Service Systems, while MM 4.17-2 through MM 4.17-4 would encourage the additional reuse of produced water, the extent to which oilfield operators can increase produced water reuse and decrease M&I demand is uncertain. As a result, potential impacts to groundwater levels and aquifer volumes would be significant and unavoidable with mitigation.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there will be a net deficit in aquifer volume or a lowering of the local groundwater table level. The Project will incorporate and implement Mitigation Measures MM 4.9-1 through MM 4.9-6, discussed above, as well as the groundwater mitigation measures described in section II(17) of these findings related to Utilities and Services Systems, to reduce this impact to the extent feasible, but such measures will not reduce this impact to a less than significant level. Accordingly, this Project impact is significant and unavoidable.

D. Cumulative Environmental Effects of the Proposed Project That Will Have a Less Than Significant Impact on the Environment.

None

E. Cumulative Environmental Effects of the Proposed Project That Will Have a Significant Impact on the Environment.

Significant Effect:

Without mitigation, the Project has the potential to contribute to cumulative hydrology and water quality impacts (Impact 4.9-11).

Description of Specific Impact:

The ongoing production of oil and gas in Kern County, with the additional mitigation measures and other substantive and procedural requirements included in the proposed revisions to the County's oil and gas ordinances included in the Project, is not expected to result in significant impacts to hydrology and water other than to groundwater elevations and aquifer volumes. On a cumulative basis, these impacts would also be less than significant because the Project would not incrementally contribute to water quality, erosion risks, flooding, and other hydrology impacts. Project Area aquifers are historically overdrafted, and recent monitoring data indicates that groundwater storage and elevations have been reduced to historically low levels in many Project Area locations during the current drought. Project Area aquifers are identified as high priority basins in the state CASGEM program and a sustainable level of groundwater use must be determined and implemented for the region by 2020 under recently enacted state law. Oil and gas M&I water use, and the increased level of M&I water demand projected for oil and gas activities by 2035, contributes to significant Project Area cumulative impacts to groundwater elevations and aquifer volumes.

Project impacts could result in cumulatively considerable impacts that would be considered significant. Implementation of MM 4.9-1 through MM 4.9-6, described above, would reduce potential cumulative impacts to water quality, erosion risks, flooding and other hydrologic resources to less than significant with mitigation. Although groundwater mitigation measures (as described in section II(17) of these findings related to Utilities and Service Systems) encourage the additional reuse of produced water, the extent to which oilfield operators can increase produced water reuse and decrease M&I demand is uncertain. As a result, cumulative impacts to groundwater would be significant and unavoidable.

Finding:

Without mitigation, the Project has the potential to contribute to cumulative hydrology and water quality impacts. This impact is significant and unavoidable, even with implementation of all feasible mitigation.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to contribute to cumulative hydrology and water quality impacts. The Project will incorporate and implement Mitigation Measures MM 4.9-1 through MM 4.9-6, discussed above, as well as the groundwater mitigation measures described in EIR Section 4.17, Utilities and Services Systems, to reduce this impact to the extent feasible, but such measures will not reduce this impact to a less than significant level. The County lacks jurisdiction and control over land conversions, and actions or approvals by other agencies that may cause cumulatively significant impacts to hydrology or water quality in the region; accordingly, this impact remains significant and unavoidable.

10. LAND USE AND PLANNING

A. Environmental Effects of the Project Found to Have No Impact on the Environment, or Have a Less Than Significant Impact on the Environment.

The Project will not conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the Project (Impact 4.10-2).

The Project will not conflict with any applicable habitat conservation plan or natural community plan (Impact 4.10-3).

B. Environmental Effects of the Project That Are Potentially Significant, but That Can Be Mitigated to Less Than Significant Levels.

Significant Effect:

Without mitigation, the Project has the potential to physically divide an established community (Impact 4.10-1).

Description of Specific Impact:

Established residential communities are dispersed throughout the Project Area on unincorporated County land. However, the majority of wells in Kern County would be constructed in Tier 1 areas (90%), which, by definition, are areas in which oil and gas activity is currently the primary land use. In contrast, residences are predominantly located on Tier 4 land. Although residences may be located on Tier 2 land, such residences are dispersed over large agricultural parcels and do not represent established communities. Finally, Tiers 3 and 5, while they might include residences, do not presently include residential communities. Therefore, there are no established communities located within Tiers 1, 2, 3, or 5.

Tier 4 areas make up less than 35,000 acres of the Project Area. Of this total, 26,160 acres are zoned for residential uses (Residential, Estate, or Mobile Park), the majority of which are clustered near the Metropolitan Bakersfield Planning Area in the Central and Eastern Subareas. However, because communities comprise a variety of uses, including commercial and industrial uses, the total acreage of 34,450 has been used to calculate impacts, even though, in some cases, these lands represent Commercial Highway areas or Industrial uses located outside of established communities.

Unlike a linear project, such as a proposed highway, which has the potential to create a physical barrier in the middle of an existing community, wells drilled in Tier 4 areas would be dispersed over 34,450 acres throughout the 3,700-square-mile Project Area. Drilling activities, such as those described in the Future Development Scenario, have historically existed in the Project Area and, in some cases, residential uses have been constructed near historic drilling operations, encroaching upon oil and gas operations. As a result, KCGP policies and zoning setbacks are intended to protect both residential uses as well as oil and gas drilling operations. Therefore, the disturbance of less than 1% of total Tier 4 land per year would not result in the physical division of an established community, and impacts under this criterion would be less than significant. In addition, mitigation measures would further ensure that impacts on adjacent land uses, including established communities, are reduced, and impacts during construction would remain less than significant.

Impacts during operation would be similar to construction; however, during operation, fewer pieces of equipment and fewer workers would be located onsite, which would result in fewer impacts to the community. In addition, wells are only viable so long as the reservoir remains viable in a particular location. Therefore, although it is estimated that 25 new wells would be constructed per year, a portion of the existing wells are likely to be decommissioned and abandoned each year throughout the life of the Project. Also, the acreage conversion conservatively assumes that all land disturbed during construction would be disturbed throughout the life of the well when, in reality,

the permanent footprint of most wells would be less than what is projected. Even so, assuming that a total of 47 acres of land were to be permanently converted each year, in 25 years, a total of 1,175 acres would be disturbed. This total represents less than 3.5% of Tier 4 land in the Project Area as it exists today. Similar to construction, this disturbance would be dispersed throughout the Project Area and would not result in the physical division of an established community. Therefore, impacts during operation would be less than significant.

Finding:

Without mitigation, the Project has the potential to physically divide an established community, though this impact will be reduced to a less than significant through implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to physically divide and established community. The Project will incorporate the mitigation measures described in section II(1) of these findings related to Aesthetics and Visual Resources, section II(3) of these findings related to Air Quality, section II(4) of these findings related to Biological Resources, section II(12) of these findings related to Noise, section II(15) of these findings related to Recreation, and section II(17) of these findings related to Utilities and Service Systems, implementation of which will reduce this impact to a less than significant level.

C. Environmental Effects of the Project That Cannot Be Mitigated to a Level Less Than Significant.

None.

D. Cumulative Environmental Effects of the Proposed Project That Will Have a Less Than Significant Impact on the Environment.

The Project will not make a considerable contribution to cumulative land use impacts (Impact 4.10-4).

E. Cumulative Environmental Effects of the Proposed Project That Will Have a Significant Impact on the Environment.

None.

11. MINERAL RESOURCES

A. Environmental Effects of the Project Found to Have No Impact on the Environment, or Have a Less Than Significant Impact on the Environment.

The Project will not result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state (Impact 4.11-1).

The Project will not result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan (Impact 4.11-2).

B. Environmental Effects of the Project That Are Potentially Significant, but That Can Be Mitigated to Less Than Significant Levels.

None.

C. Environmental Effects of the Project That Cannot Be Mitigated to a Level Less Than Significant.

None.

D. Cumulative Environmental Effects of the Proposed Project That Will Have a Less Than Significant Impact on the Environment.

The Project will not contribute to cumulative mineral resources impacts (Impact 4.11-3).

E. Cumulative Environmental Effects of the Proposed Project That Will Have a Significant Impact on the Environment.

None.

12. NOISE

A. Environmental Effects of the Project Found to Have No Impact on the Environment, or Have a Less Than Significant Impact on the Environment.

The Project will not generate or expose persons to, or generate, excessive ground borne vibration or ground borne noise levels (Impact 4.12-2).

B. Environmental Effects of the Project That Are Potentially Significant, but That Can Be Mitigated to Less Than Significant Levels.

Significant Effect:

Without mitigation, the Project has the potential to generate or expose persons to noise levels in excess of standards established in the local general plan or noise ordinance or applicable standards of other agencies (Impact 4.12-1).

Description of Specific Impact:

Short-term construction noise impacts could result from land clearing and grading for well pads and work areas, construction/maintenance of access roads, construction of accessory facilities (including pipelines, electrical transmission lines, drilling sumps or temporary storage tanks), transporting the drilling rig, associated equipment, workers and materials to the well pad site, well drilling, and construction equipment operations. Due to the complexity of drilling and the hazards associated with leaving a well unattended during the drilling process, drilling operations are typically conducted 24 hours a day. Depending upon the depth of the formation, some wells may take less than 24 hours to drill, while some wells may take up to 60 days in deeper formations.

Although construction noise that occurs between 6:00 AM and 9:00 PM on weekdays, and between 8:00 AM and 9:00 PM on weekends is exempt from restrictions, after that time construction noise cannot be audible within 150 feet of the construction site and 1,000 feet of an occupied residential building. If construction were to be conducted 24 hours per day, all activities described in EIR

Table 4.2-8 would be audible at 150 feet. In accordance with the Kern County Zoning Ordinance, setbacks for oil and gas wells currently are 150 feet from residential dwellings and hospitals and 300 feet from places of assembly, including schools and churches. These land uses are considered sensitive noise receptors. If oil and gas activities were to occur within 150 feet of a residence or 300 feet of a place of assembly, construction noise levels could exceed audible levels if construction were to occur outside of the 6:00 AM to 9:00 PM framework. In addition, construction noise could exceed the County's 65 dBA CNEL threshold at residences and places of assembly, even if the current setbacks were observed. Therefore, even with the current setback requirements, construction noise impacts could be significant if construction were to occur between 9:00 PM and 6:00 AM.

According to Implementation Measure 4 of the KCGP Noise Element, commercial and industrial uses or operations need to be designed or arranged so that they will not subject residential or other noise sensitive land uses to exterior noise levels in excess of 65 dBA CNEL. EIR Table 4.12-9 demonstrates that noise from electric power generation attenuates to less than the 65 dB standard by a distance of 70 feet from the source. Accordingly, based on the current setback requirements for oil and gas activities in Kern County for residential dwellings and hospitals (150 feet), and places of assembly, including schools and churches (300 feet), well operations using electrical power would comply with the established noise level requirement. However, EIR Table 4.12-9 shows that noise from diesel power generation attenuates to less than the 65 dB standard by a distance of 190 feet from the source, indicating that well operations using diesel power may not comply with the standard near residences and hospitals with a 150 foot setback. Therefore, impacts due to operational noise could be significant.

Finding:

Without mitigation, the Project has the potential to generate or expose persons to noise levels in excess of standards established in the local general plan or noise ordinance or applicable standards of other agencies. This Project impact will be reduced to a less than significant level through implementation of mitigation measures.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to generate or expose persons to noise levels in excess of standards established in the local general plan or noise ordinance or applicable standards of other agencies. The following mitigation measures will be incorporated into the Project to reduce this impact to a level that is less than significant:

MM 4.12-1 Construction:

The Site Plan Application shall include a Site Vicinity Figure showing the location of any sensitive receptor(s) within the distances listed in the construction noise setbacks table, as shown below, of the construction site (potential impact area) for the proposed new well or other ancillary facility or equipment (excluding pipelines). This Figure need not be prepared for Tier 1 areas unless a sensitive receptor is located within 270 feet of a construction site inside the Tier 1 area.

a. If there are no sensitive noise receptors within this potential impact area, then no construction mitigation measures shall be required.

b. If there are sensitive human noise receptors within the potential impact area, then additional information must be provided showing the type of equipment being used and the noise contours with levels not exceeding 65 dB DNL at the nearest exterior wall of the sensitive receptor or more than 1 dB DNL higher than the ambient noise levels, if in excess of 65 dB DNL. If noise levels are shown to exceed 65 dB DNL or more than 1 dB DNL higher than the ambient noise levels in excess of 65 dB DNL, then one or more of the following mitigation measures shall be taken:

1. Placement of a temporary sound attenuation wall(s) shall be placed at the optimal distance to the sensitive receptor, as determined by an acoustical expert.

2. Construction of a temporary berm shall be placed at the optimal distance to the sensitive receptor, as determined by an acoustical expert.

3. Modification of equipment to reduce noise impacts.

4. Implementation of a quiet mode drilling plan or other sound reduction technology or practices as documented in a report submitted to the County.

5. Arranging for the voluntary, temporary relocation of the occupants of the sensitive receptor during the construction period.

6. Use the following setback distances for the activities specified:

Construction Noise Setbacks

Activity	Setback Distance (feet)
Drilling (Well Advancement)	1,550
Drilling (Pull Out Of Well/Borehole)	820
Large-Scale Exploratory Drilling[1]	3,270
Well Workover	930
Hydraulic Fracturing	1,090

Note:
[1]Kenai Drill Rig #7

Information submitted with the Site Plan Application must detail the combination and methods used to determine the level of reduction and shall not exceed 65 dB DNL or any ambient levels in excess of 65 dB DNL or more than 1 dB DNL higher than the ambient noise levels, if in excess of 65 dB DNL.

MM 4.12-2 Operation:

New oil and gas wells shall be a minimum 210 feet from the closest sensitive receptor. Geophysical testing methods using vibroseis vehicles to generate sound waves shall be a minimum 150 feet from the closest occupied building, water well, sewer system, and septic tank. Geophysical testing methods using shotholes that employ explosives shall be a minimum 300 feet from the closest occupied building, water well, sewer system, and septic tank, and shall be in full compliance with all laws governing explosives.

Significant Effect:

Without mitigation, the Project has the potential to cause a substantial temporary or periodic increase in ambient noise levels in the Project vicinity above levels existing without the Project (Impact 4.12-3).

Description of Specific Impact:

A substantial permanent increase in ambient noise levels would occur if noise levels increase in excess of 65 dBA CNEL. The EIR's analysis examined operational noise levels because they would be long-term in nature. At a distance of 70 feet from a well, noise from electric-powered oil and gas wells would attenuate to a level of 60 dBA, which is less than 65 dBA CNEL. However, noise from diesel powered oil and gas wells would not attenuate to a level of 60 dBA CNEL until 190 feet from a well. A house or hospital could be located within 150 feet of a well; therefore, there is the potential for a substantial permanent increase in ambient noise levels in excess of the 65 dBA standard in the vicinity of sensitive noise receptors and therefore impacts could be significant.

Finding:

Without mitigation, the Project has the potential to cause a substantial temporary or periodic increase in ambient noise levels in the Project vicinity above levels existing without the Project. These impacts will be mitigated to a level that is less than significant.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to cause a substantial temporary or periodic increase in ambient noise levels in the Project vicinity above levels existing without the Project. Mitigation Measure **MM 4.12-2**, described above, will be incorporated into the Project to reduce this impact to a level that is less than significant.

Significant Effect:

Without mitigation, the Project has the potential to cause a substantial temporary or periodic increase in ambient noise levels in the Project vicinity above levels existing without the Project (Impact 4.12-4).

Description of Specific Impact:

Oil and gas well development would result in temporary increases in ambient noise levels in the vicinity. Noise levels would fluctuate depending on the phase of construction, equipment type and duration of use, and distance between the noise source and receptor. Although construction noise conducted between 6:00 AM and 9:00 PM on weekdays and 8:00 AM and 9:00 PM on weekends

is exempt from restrictions, after that time it is prohibited from being audible within 150 feet of the construction site and 1,000 feet of an occupied residential building. Based on available data, well pad preparation, drilling, and hydraulic fracturing would be audible within 150 feet of the equipment. Hydraulic fracturing would be audible at 1,000 feet from the pump trucks and well pad preparation and drilling could be audible at 1,000 feet. Based on the fact that sensitive noise receptors could hear construction noise and these noise levels would be in excess 65 dBA CNEL, particularly if drilling occurs all night, construction noise is considered a significant adverse impact if located near one or more sensitive noise receptors (e.g., a home, hospital, school, church, or other public assembly facility). This impact is potentially significant.

Finding:

Without mitigation, the Project has the potential to cause a substantial temporary or periodic increase in ambient noise levels in the Project vicinity above levels existing without the Project. With implementation of mitigation measures, this impact will be reduced to a level that is less than significant.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to cause a substantial temporary or periodic increase in ambient noise levels in the Project vicinity above levels existing without the Project. Mitigation Measure **MM 4.12-1**, described above, will be incorporated into the Project to reduce this impact to a level that is less than significant.

Significant Effect:

Without mitigation, the Project has the potential to expose people residing or working within that part of the Project Area located within an airport land use compatibility plan to excessive noise levels (Impact 4.12-5).

Description of Specific Impact:

Future oil and gas-related development activities could occur in the vicinity of any of the public use airports identified in the Kern County ALUCP. Noise levels generated during construction or operations of oil and gas facilities at specified distances exceed 65 dB CNEL. Oil and gas activities could only occur at the appropriate setback distance, but could be as close as 50 feet from an industrial facility. If oil and gas facilities were built or operated within the 65 decibel CNEL contours of Meadows Field or the Bakersfield Municipal Airport, then the combined noise levels of aircraft take-offs and landings and oil and gas activities have the potential to exceed County acceptable noise levels for workers and/or residents that are in proximity to both the public airport and potential oil and gas activities, depending on the location of the well and the residence or facility. Therefore, there could be significant impacts.

Finding:

Without mitigation, the Project has the potential to expose people residing or working within that part of the Project Area located within an airport land use compatibility plan to excessive noise levels. With implementation of mitigation measures, this impact will be reduced to a level that is less than significant.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to expose people residing or working within that part of the Project Area located within an airport land use compatibility plan to excessive noise levels. Mitigation Measures **MM 4.12-1** and **MM 4.12-2**, described above, will be incorporated into the Project to reduce this impact to a level that is less than significant.

Significant Effect:

Without mitigation, the Project has the potential to expose people residing or working within that part of the Project Area located within the vicinity of a private airstrip to excessive noise levels (Impact 4.12-6).

Description of Specific Impact:

Oil and gas development activities authorized under the Project could occur in proximity to a private airstrip. Given that oil and gas activities authorized under the Project would, at a minimum, have to comply with current setback requirements, an industrial facility could be within 50 feet or a residence could be with 150 feet. Noise levels at these distances under some circumstances could exceed acceptable noise levels. The combined noise levels of aircraft take-offs and landings and oil and gas activities have the potential to exceed acceptable noise levels for workers and/or residents that are in proximity to both a private airport and potential oil and gas activities, depending on the location of the well and the residence or facility and therefore impacts could be significant.

Finding:

Without mitigation, the Project has the potential to expose people residing or working within that part of the Project Area located within the vicinity of a private airstrip to excessive noise levels. With implementation of mitigation measures, this impact will be reduced to a level that is less than significant.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to expose people residing or working within that part of the Project Area located within the vicinity of a private airstrip to excessive noise levels. Mitigation Measures **MM 4.12-1** and **MM 4.12-2**, described above, will be incorporated into the Project to reduce this impact to a level that is less than significant.

C. Environmental Effects of the Project That Cannot Be Mitigated to a Level Less Than Significant.

None.

D. Cumulative Environmental Effects of the Proposed Project That Will Have a Less Than Significant Impact on the Environment.

Significant Effect:

Without mitigation, the Project has the potential to contribute to cumulative noise impacts (Impact 4.12-7).

Description of Specific Impact:

Since oil and gas activities could occur anywhere in the Project Area, the combined noise levels from the Project and existing or reasonably foreseeable projects depend on the proximity of oil and gas activities to other noise sources at a specific location. Noise generated from construction of certain types of wells authorized under the Project, conservatively assuming use of the largest exploratory deep drilling rig (Kenai Rig), could be in excess of 65 dBA CNEL up to 3,000 feet from a construction site and up to 190 feet from a diesel-powered operating well. Therefore, significant noise impacts would occur if there are sensitive noise receptors within 3,000 feet of the construction of a well and 190 feet of an operating diesel-powered well. Other projects with construction or operations occurring concurrently with construction or operations of a well would also contribute to noise levels experienced by nearby sensitive noise receptors.

Oil and gas activities subject to Project authorization would have to implement MM 4.12-1 if there are sensitive human noise receptors within 3,000 feet of a well to ensure that the noise levels do not exceed 65 dBA at the nearest exterior wall of the nearest sensitive receptor or more than 1 dBA higher than the ambient noise levels, if in excess of 65 dBA. Cumulatively significant noise impacts could occur even if noise levels associated oil and gas activities are under 65 dBA, depending on the location of another nearby project, its noise levels, and the distance to a sensitive noise receptor.

Finding:

Without mitigation, the Project has the potential to make a considerable contribution to cumulative noise impacts. With implementation of mitigation measures, this impact will be reduced to a level that is less than significant.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to make a considerable contribution to cumulative noise impacts. Mitigation Measures **MM 4.12-1** and **MM 4.12-2**, described above, will be incorporated into the Project to reduce this impact to a level that is less than significant.

E. Cumulative Environmental Effects of the Proposed Project That Will Have a Significant Impact on the Environment.

None.

13. POPULATION AND HOUSING

A. Environmental Effects of the Project Found to Have No Impact on the Environment, or Have a Less Than Significant Impact on the Environment.

The Project will not induce substantial population growth in an area, either directly or indirectly (Impact 4.13-1).

The Project will not displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere (Impact 4.13-2).

The Project will not displace substantial numbers of people, necessitating the construction of replacement housing elsewhere (Impact 4.13-3).

B. Environmental Effects of the Project That Are Potentially Significant, but That Can Be Mitigated to Less Than Significant Levels.

None.

C. Environmental Effects of the Project That Cannot Be Mitigated to a Level Less Than Significant.

None.

D. Cumulative Environmental Effects of the Proposed Project That Will Have a Less Than Significant Impact on the Environment.

The Project will not contribute to cumulative population and housing impacts (Impact 4.13-4).

E. Cumulative Environmental Effects of the Proposed Project That Will Have a Significant Impact on the Environment.

None.

14. PUBLIC SERVICES

A. Environmental Effects of the Project Found to Have No Impact on the Environment, or Have a Less Than Significant Impact on the Environment.

None.

B. Environmental Effects of the Project That Are Potentially Significant, but That Can Be Mitigated to Less Than Significant Levels.

Significant Effect:

Without mitigation, the Project has the potential to cause substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services, which include: fire protection, police protection, schools, parks, and other public facilities (Impact 4.14-1).

Description of Specific Impact:

Given the history of oil and gas development within Kern County, any nominal increase in the oil and gas workforce in the future would likely be comprised of local Kern County residents. As such, the nominal population growth would not stress certain existing public services, such as schools and libraries; however, the anticipated new oil and gas activity may strain services, such as police and fire services, in the vicinity of the new oil and gas wells.

Fires could occur at oil and gas facilities because of the hazardous materials that could be located at such facilities. Both Kern County and City of Bakersfield have hazardous materials teams. However, with the projected increase in the number of oil and gas facilities where many different types of chemicals and/or large quantities of oil or gas are present, significant impacts could occur if the hazardous material response teams do not have sufficient firefighting materials or equipment to extinguish the type of fires that could be associated with the types of materials that could be at an oil and gas facility.

Although police service demands would not increase from the implementation of the proposed Project, new oil and gas exploration and production activities could increase the level of demand for police protection services from the Sheriff's Office, specifically in rural areas, because new oil and gas activity could attract vandals or create security risks requiring police response. Since the majority of new oil and gas activities would likely be in rural areas, there could be some increase in demands on the Rural Crimes Unit of the Kern County Sheriff's Department. This impact could be significant.

The Project would not substantially affect enrollment in local schools, and school impacts are considered less than significant. Moreover, since population growth is anticipated to be nominal as a result of the implementation of the proposed Project, the Project would not have a significant impact on emergency services or to other public facilities, such as or postal services or libraries. Therefore, impacts on other public facilities are considered to be less than significant.

Finding:

Without mitigation, the Project has the potential to result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services, which include: fire protection, police protection, schools, parks, and other public facilities. Mitigation measures will be implemented to reduce this impact to a level that is less than significant.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to The Project will result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services. The following mitigation measures will be incorporated into the Project to reduce this impact to a level that is less than significant:

MM 4.14-1 Applicant shall contribute to funding the acquisition of a Combination Walk-in/Non-Walk-in Industrial Firefighting vehicle capable of responding with a minimum of five firefighters with the tools and equipment necessary for industrial firefighting and rescue. Each Applicant shall pay $150 per well on each Oil and Gas Conformity Review permit until the total cost of the vehicle purchase is reached, not to exceed $850,000, to be paid through mitigation fees on Oil and Gas Conformity Review permits. Subsequent Applicants shall not be subject to this mitigation measure.

MM 4.14-2 Applicant shall provide funding in the amount of $425 per Oil and Gas Conformity Review permit issued for the Sheriff's Rural Crime Unit. Funding shall be used for one Sergeant, two Senior Deputies (investigators), three Deputies, One Support Technician (clerical), and helicopter usage, based on the amount of funding provided by this permit mitigation fee. The fee shall be in addition to any general funds received by the Sheriff's Department. The Sheriff's department shall annually report on the expenditure of funds for the Rural Crimes Unit, including incident reports and response times. If other sources of funding for the Rural Crimes Unit are secured, then the mitigation fee amount shall be adjusted to pay only the gap between actual costs and funding provided from other sources. The first 100 permits issued in a calendar year to certified small producers under the Small Producers Program included in the Project shall not pay this mitigation fee based on their very low proportionate use of the Rural Crimes Unit (100 permits are estimated to generally be less than 5% of the permits issued annually).

C. Environmental Effects of the Project That Cannot Be Mitigated to a Level Less Than Significant.

None.

D. Cumulative Environmental Effects of the Proposed Project That Will Have a Less Than Significant Impact on the Environment.

Significant Effect:

Without mitigation, the Project has the potential to make a considerable contribution to cumulative public service impacts (Impact 4.14-2).

Description of Specific Impact:

Overall, the proposed Project would cumulatively contribute to an increased demand for fire, police, schools, and other public facilities and, therefore, could be significant impacts. While the proposed Project's contribution to growth in the region would be nominal, cumulative projects that would occur under the regional plans would add to the cumulative demand for such services through the introduction of new residents and users of the proposed facilities. However, this growth has been considered and accounted for in the KCGP, the MBGP, and the Kern Council of Governments Regional Transportation Plan/Sustainable Communities Strategy. Additionally, in accordance with the KCGP, Public Services and Facilities, Policies 9 and 16, new developments would be required to pay a pro rata share of the local cost for the expansion of services under the Public Facilities Mitigation Program. Developers would be required to assume full responsibility for costs incurred in service extensions or improvements that are required to serve their project(s). Therefore, new projects would have to pay for the extension or improvement of fire, police, or other services to serve a specific development, if those services are not available and to ensure service objectives are met. Additionally, the Project Area is located in an area that is served by all public service providers and the proposed Project's incremental impacts can be sufficiently mitigated (MM 4.14-1 and MM 4.14-2, described above); therefore, the Project's incremental effect on public services is not cumulatively considerable and would be considered less than significant with mitigation.

Finding:

Without mitigation, the Project has the potential to make a considerable contribution to cumulative public service impacts. With mitigation, this cumulative impact will be reduced to a level that is less than significant.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to make a considerable contribution to cumulative public service impacts. Mitigation Measures **MM 4.14-1** and **MM 4.14-2**, described above, will be incorporated into the Project to reduce this impact to a level that is less than significant.

E. Cumulative Environmental Effects of the Proposed Project That Will Have a Significant Impact on the Environment.

None.

15. RECREATION

A. Environmental Effects of the Project Found to Have No Impact on the Environment, or Have a Less Than Significant Impact on the Environment.

The Project will not result in increased use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration would occur or be accelerated (Impact 4.15-1).

The Project will not include recreational facilities or require construction or expansion of recreational facilities that might have an adverse physical effect on the environment (Impact 4.15-2).

B. Environmental Effects of the Project That Are Potentially Significant, but That Can Be Mitigated to Less Than Significant Levels.

None.

C. Environmental Effects of the Project That Cannot Be Mitigated to a Level Less Than Significant.

None.

D. Cumulative Environmental Effects of the Proposed Project That Will Have a Less Than Significant Impact on the Environment.

The Project will not contribute to cumulative recreation impacts (Impact 4.15-3).

E. Cumulative Environmental Effects of the Proposed Project That Will Have a Significant Impact on the Environment.

None.

EXHIBIT B

16. TRANSPORTATION AND TRAFFIC.

A. Environmental Effects of the Project Found to Have No Impact on the Environment, or Have a Less Than Significant Impact on the Environment.

None.

B. Environmental Effects of the Project That Are Potentially Significant, but That Can Be Mitigated to Less Than Significant Levels.

Significant Effect:

Without mitigation, the Project has the potential to conflict with an applicable plan, ordinance, or policy establishing measures of effectiveness for the performance of the circulation system, including, but not limited to, intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit (Impact 4.16-1).

Description of Specific Impact:

The addition of Project-related traffic to Year 2015 conditions would contribute to 19 of the 101 intersections evaluated as operating below acceptable LOS (at LOS E or worse for intersections located within the non-metropolitan region of Kern County and LOS D or worse for intersections located within the Bakersfield and Kern County metropolitan areas and for Caltrans facilities). These impacts would be significant. Moreover, the addition of Project-related traffic to Year 2015 conditions would contribute to 30 of the 462 roadway segments evaluated as operating below acceptable LOS (at LOS E or worse for roadways located within the non-metropolitan region of Kern County, and LOS D or worse for roadways located within the Bakersfield and Kern County metropolitan areas and for Caltrans facilities (Appendix W). These impacts would be significant. Finally, Project-related traffic could contribute to the degradation of pavement conditions and the service life for roadways in the Project Area, which could be a significant impact.

Finding:

Without mitigation, the Project has the potential to conflict with an applicable plan, ordinance, or policy establishing measures of effectiveness for the performance of the circulation system, including, but not limited to, intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit. This impact would be reduced to a level that is less than significant by implementing the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to conflict with an applicable plan, ordinance, or policy establishing measures of effectiveness for the performance of the circulation system, including, but not limited to, intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit. The following mitigation measures will be incorporated into the Project to reduce this impact to a level that is less than significant:

MM 4.16-1 The Applicant shall pay a road maintenance mitigation fee of $1,500 per permit for new wells to pay for roadway maintenance and related improvements to address wear and tear on roads caused by oil and gas industry traffic. The Kern

County Public Works Department shall annually report on the expenditure of funds from the Oil and Gas Roadway Maintenance Fee. Expenditures from the fund shall be as determined by the Roads Commissioner, using as a reference the list of roadways identified in the Environmental Impact Report as being used for traffic by the oil and gas industry. If Kern County secures funding from a sales tax dedicated to transportation funding, then the amount of the traffic mitigation fee shall be re-evaluated at the time the County becomes a self-help county. The first 100 permits issued in a calendar year to certified small producers under the Small Producers Program included in the Project shall not pay this mitigation fee based on their very low proportionate roadway use (100 permits are estimated to generally be less than 5% of the permits issued annually).

MM 4.16-2 Applicants who are using an arterial or collector, or Caltrans route, for access to a construction site, shall consult with the Kern County Public Works Department to determine if a Construction Traffic Control Plan is required based on the timing and volume of larger vehicle rigs and the volume of traffic to address public safety and congestion management. If a Plan is required, the Applicant shall prepare and submit a Construction Traffic Control Plan to the Kern County Public Works Department and to the California Department of Transportation (District 9 office) for approval. The Construction Traffic Control Plan must be prepared in accordance with both the California Department of Transportation Manual on Uniform Traffic Control Devices and Work Area Traffic Control Handbook and shall include, but not be limited to, the following issues:

a. Timing of deliveries of heavy equipment and building materials.

b. Placing temporary signing, lighting, and traffic control devices as necessary to indicate the presence of heavy vehicles and construction traffic.

c. Determining the need for construction work hours and arrival/departure times outside peak traffic periods.

d. Ensuring access for emergency vehicles to the Project site.

e. Any temporary closure of travel lanes or disruptions to street segments and intersections during well development.

f. Maintaining access to adjacent property.

Significant Effect:

Without mitigation, the Project has the potential to conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures or other standards established by the County congestion management agency or adopted County threshold for designated roads or highways (Impact 4.16-2).

Description of Specific Impact:

The Circulation Element of the KCGP states that the design LOS for Kern County is LOS C. The minimum LOS for conformance with the KCGP is LOS D. The Kern COG CMP has established LOS E as the minimum system-wide LOS traffic standard for CMP corridors. With the addition of

Project-related construction traffic, under the future condition, a number of CMP corridors would operate at LOS E or below. However, these roadways would also operate below acceptable LOS even without Project-related traffic. Therefore, operation of these corridors below acceptable LOS is not considered an impact of the Project; however because the LOS of these corridors is impaired, implementation of MM 4.16-2 would reduce Project impacts to existing levels that would represent a less than significant impact.

Finding:

Without mitigation, the Project has the potential to cause significant impacts by conflicting with an applicable congestion management program, including, but not limited to LOS standards and travel demand measures or other standards established by the County congestion management agency or adopted County threshold for designated roads or highways. This impact would be reduced to a level that is less than significant by implementing the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to cause significant impacts by conflicting with an applicable congestion management program, including, but not limited to LOS standards and travel demand measures or other standards established by the County congestion management agency or adopted County threshold for designated roads or highways. Mitigation Measure **MM 4.16-2** will be incorporated into the Project to reduce this impact to a level that is less than significant.

Significant Effect:

Without mitigation, the Project has the potential to cause changes in air traffic patterns, including either an increase in traffic levels or a change in location, that result in substantial safety risks (Impact 4.16-3).

Description of Specific Impact:

If an oil or gas well permit applicant would require a vertical structure more than 200 feet in height (e.g., transmission line poles, vertical pump jack), the applicant would be required to comply with FAA Advisory Circular 70/7460-1, Obstruction Lighting/Marking requirements. If the FAA determines that the structure would result in a potential obstruction unless reduced to a specified height, the applicant would be required to work with the FAA to resolve any adverse effects on aeronautical operations. Numerous public, military, and private airports are located within the Project Area. Section 4.8, Hazards and Hazardous Materials includes mitigation measures, which require applicants to comply with the applicable airport land use compatibility plan if their operations would be located within an airport area of influence. Implementation of these mitigation measures would ensure that the Project is consistent with Section 3.3.4 of the Kern County ALUCP. The mitigation measures would also ensure that the Project would not impact operations of aircraft using Kern County airspace, and that all required Project components shall have lighting and markings required by the FAA so as not to create a hazard to air navigation

Finding:

Without mitigation, the Project has the potential to cause changes in air traffic patterns that result in substantial safety risks. These impacts will be reduced to a less than significant level by implementation of mitigation measures.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to cause changes in air traffic patterns that result in substantial safety risks. The Project will incorporate the mitigation measures described in EIR Section 4.8, Hazards and Hazardous Materials, implementation of which will reduce this impact to a level that is less than significant.

Significant Effect:

Without mitigation, the Project has the potential to substantially increase hazards due to a design feature or incompatible uses (Impact 4.16-4).

Description of Specific Impact:

Well development (which includes well stimulation activities), would continue to require the delivery of heavy construction equipment using area roadways. The use of oversized vehicles during construction can create a hazard to the public by limiting motorist views on roadways and by the obstruction of space and, therefore, could have a significant impact. The introduction of construction-related traffic would have the potential to increase accident rates and could result in significant impacts; however, with the implementation of MM 4.16-2, as discussed above, would also require this information be provided in the Construction Traffic Control Plan for Kern County approval and would reduce this potential impact to less than significant level.

Finding:

Without mitigation, the Project has the potential to substantially increase hazards due to a design feature or incompatible uses. These impact will be reduced to a level that is less than significant through implementation of mitigation measures.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to substantially increase hazards due to a design feature or incompatible uses. The incorporation of the Mitigation Measure 4.16-2, described above, will reduce this impact to a level that is less than significant.

Significant Effect:

Without mitigation, the Project has the potential to result in inadequate emergency access (Impact 4.16-5).

Description of Specific Impact:

Increased Project-related traffic could cause a significant increase in congestion or affect the existing and future LOS on roads, which could indirectly affect emergency access. While the Project is not expected to require closures of public roads, which could inhibit access by emergency vehicles, during well development, heavy construction-related traffic could interfere with emergency response or emergency evacuation procedures in the event of an emergency, such as a wildfire or a chemical spill. Heavy construction-related traffic could also interfere with emergency response to other NOG-related uses in the vicinity and, therefore, could represent a significant impact

Finding:

Without mitigation, the Project has the potential to result in inadequate emergency access. This impact will be reduced to a level that is less than significant by incorporation of mitigation measures, as described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to result in inadequate emergency access. Mitigation Measure **MM 4.16-2** will be incorporated into the Project to reduce this impact to a level that is less than significant.

Significant Effect:

Without mitigation, the Project has the potential to conflict with adopted policies, plans or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities (Impact 4.16-6).

Description of Specific Impact:

Kern County operates KRT, which operates daily bus routes within the unincorporated communities of Buttonwillow, Lamont, Kern River Valley, Frazier Park, Rosamond, and Mojave. In western Kern County, bus routes connect Bakersfield to various cities including Delano, Wasco, Taft, Lebec, and Frazier Park (KRT 2014). KRT also provides inter-city service between Delano/McFarland/Wasco/Shafter/ Bakersfield, Lamont/Bakersfield, Lake Isabella/Bakersfield, Frazier Park/Bakersfield, California City/Mojave/Rosamond/Lancaster/Palmdale, Lost Hills/Bakersfield, and Taft/Bakersfield. To ensure Project-related traffic would not impact roadways utilized by the KRT, MM 4.16-2 requires that a Construction Traffic Control Plan be prepared, these mitigation measures would ensure that Project-related traffic does not impact KRT operations.

Finding:

Without mitigation, the Project has the potential to conflict with adopted policies, plans or programs supporting alternative transportation. These impacts will be reduced to a level that is less than significant through implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to conflict with adopted policies, plans or programs supporting alternative transportation. Mitigation Measure **MM 4.16-2**, described above, will be incorporated into the Project to reduce this impact to a level that is less than significant.

C. Environmental Effects of the Project That Cannot Be Mitigated to a Level Less Than Significant.

None.

D. Cumulative Environmental Effects of the Proposed Project That Will Have a Less Than Significant Impact on the Environment.

Significant Effect:

Without mitigation, the Project has the potential to contribute to cumulative transportation and traffic impacts (Impact 4.16-7).

Description of Specific Impact:

The addition of Project-related traffic contributes to 34 of the 101 intersections that operate below acceptable LOS (LOS E or below for intersections located within the non-metropolitan region of Kern County and LOS D or below for intersections located within the Bakersfield and Kern County metropolitan areas and for Caltrans facilities, as stated in the Traffic Study) under Year 2035 conditions (Table 4.16-18). This impact would be significant.

The addition of Project-related traffic contributes to 99 of the 462 roadway segments that operate below acceptable LOS (LOS E or below for roadways located within the non-metropolitan region of Kern County and LOS D or below for roadways located within the Bakersfield and Kern County metropolitan areas and for Caltrans facilities) under Year 2035 conditions (see Table 4.16-19) (Appendix W). This impact would be significant.

Finding:

Without mitigation, the Project has the potential to make a considerable contribution to cumulative transportation and traffic impacts. These impacts will be reduced to a less than significant level by implementation of the mitigation measures described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to make a considerable contribution to cumulative transportation and traffic impacts. Mitigation Measures **MM 4.16-1** and **MM 4.16-2**, as described above, will be incorporated into the Project to reduce this cumulative impact to a level that is less than significant.

E. Cumulative Environmental Effects of the Proposed Project That Will Have a Significant Impact on the Environment.

None.

17. UTILITIES AND SERVICE SYSTEMS.

A. Environmental Effects of the Project Found to Have No Impact on the Environment, or Have a Less Than Significant Impact on the Environment.

None.

B. Environmental Effects of the Project That Are Potentially Significant, but That Can Be Mitigated to Less Than Significant Levels.

Significant Effect:

Without mitigation, the Project has the potential to exceed wastewater treatment requirements of the applicable regional water quality control board (Impact 4.17-1).

Description of Specific Impact:

About 97.4% of the Project Area consists of Tier 1 lands, in which oil and gas activities are the predominant land use, or Tier 2 lands, where agriculture is the predominant use. Of the 97.4% of the Project Area in Tier 1 and Tier 2 lands, 10.1% of the Project Area is located in Tier 1, and 87.3% is located in Tier 2. The remaining 2.6% is found in Tier 3, 4, and 5 lands. In addition, 97% of the projected annual disturbance of up to 4,856 acres would occur in Tier 1 (4,400 acres) or Tier 2 (298 acres) areas. Urban-scale constructed wastewater treatment facilities that are subject to CVRWQCB wastewater treatment requirements would not be significantly affected by Project activity because the majority of activity would not occur where these types of facilities are present.

The majority of wastewater produced by oil and gas activities associated with the implementation of the Project is produced water and well stimulation flowback water, which would likely be either disposed of via Class II Underground Injection Control (UIC) injection wells, percolation and evaporation ponds (aka wastewater disposal ponds), and sumps. Wastewater would not be delivered directly to a municipal wastewater treatment facility. Therefore, these disposal methods would not impact municipal wastewater treatment facilities.

Potential impacts could occur associated with wastewater treatment requirements that may be adopted by the CVRWQCB for other oil and gas-related activities are discussed in EIR Section 4.9, Hydrology and Water Quality, including Impact 4.9-1 (Violate any water quality standards or waste discharge requirements). Potential impacts related to CVRWQCB wastewater treatment requirements analyzed in EIR Section 4.9 include: stormwater and runoff impacts; surface or subsurface discharges during well construction and operation; produced water reuse and disposal (including enhanced oil recovery activities, agricultural irrigation, disposal in evaporation and percolation ponds, and disposal in injection wells); and well stimulation activities. These could result in significant impacts, but would be mitigated through the implementation of the stormwater mitigation measures in EIR Section 4.9, Hydrology and Water Quality, which require compliance with all applicable water quality protection laws and regulations, including stormwater management laws and regulations.

In addition, as discussed in the EIR Section 4.13, Population and Housing, no population or employment growth is anticipated as part of the of the Project beyond the continued gradual growth attributed to the region as a whole (and not attributable to any particular industry sector) by the Kern County of Governments (COG) Regional Transportation Plan (RTP)/Sustainable Communities Strategy (SCS) EIR projections. Therefore, Project-related employment would not lead to sanitary wastewater generation that would exceed wastewater treatment requirements, and impacts would be less than significant.

Finding:

Without mitigation, the Project has the potential to exceed wastewater treatment requirements of the applicable regional water quality control board. This impact would be reduced to a less than significant level through implementation of mitigation measures, as discussed below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to exceed wastewater treatment requirements of the applicable regional water quality control board. The stormwater mitigation measures described in section II(9) of these findings

related to Hydrology and Water Quality, will be incorporated into the Project to reduce this cumulative impact to a level that is less than significant.

Significant Effect:

Without mitigation, the Project has the potential to require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects (Impact 4.17-2).

Description of Specific Impact:

Future oil and gas exploration and production activities and related Project facilities could, depending on their location relative to existing oil and gas infrastructure, require construction/expansion of a septic system and leach line. While sanitary wastewater generation is not anticipated to be significant, new and/or expanded non-municipal wastewater treatment facilities could be required. While all applicable local, state, and federal requirements and Best Management Practices (BMPs) would be incorporated into construction of all Project-related facilities, a new or expanded septic system and leach line could result in significant impacts to the environment (with respect to surface water, groundwater, and vegetation).

Finding:

Without mitigation, the Project has the potential to require or result in the construction of new wastewater treatment facilities, the construction of which could cause significant environmental effects. These impacts will be reduced to a level that is less than significant by implementation of the mitigation measure described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects. The following mitigation measure will be incorporated into the Project to reduce this impact to a level that is less than significant:

MM 4.17-1 Prior to the issuance of building permits for an operations and maintenance building, the method of sewage disposal shall be as required and approved by the Kern County Public Health Services Department. Compliance with this requirement will necessitate that the Project proponent obtain the necessary approvals for the design of the septic system from the Kern County Department of Public Works. The septic system disposal field shall be located a minimum of 100 feet from a classified stream or 25 feet from a non-classified stream and shall not be located where it would impact State wetlands or special-status plant species.

Significant Effect:

Without mitigation, the Project has the potential to require or result in the construction of new stormwater drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects (Impact 4.17-3).

Description of Specific Impact:

About 97.4% of the Project Area consists of Tier 1 and Tier 2 lands. Tier 1 lands, in which oil and gas activities are the predominant land use, represent 10.1% of the Project Area, while Tier 2 lands, where agriculture is the predominant use, represent 87.3% of the Project Area. In addition, 97% of the projected annual disturbance of up to 4,856 acres would occur in Tier 1 (4,400 acres) or Tier 2 (298 acres) areas. Urban-scale constructed stormwater drainage systems occur, to a limited extent, in Tier 1 and Tier 2 areas. Potential Project-related development in Tiers 3, 4, and 5 could produce runoff to existing or planned regional or constructed stormwater drainage systems, The extent of the potential new development would affect, at most, 0.3% of the acreage in Tiers 3, 4, and 5, per year, and would not generate new sources of runoff that could significantly impact existing or planned wastewater treatment systems in these locations.

Stormwater drainage would be managed by site-specific stormwater and runoff management measures. Oil and gas operations that are located in close proximity with or on sites that are hydrologically connected to waters of the United States are generally subject to the requirements of the Construction General Permit and Industrial General Permit adopted by the SWRCB unless otherwise subject to exemption or waiver. These permits require strict compliance with water quality standards through the implementation of BMPs and other measures. The American Petroleum Institute (API) and other sources of applicable industry engineering standards publish and regularly update oil and gas industry standards and criteria for stormwater and runoff management. Stormwater mitigation measures described in EIR Section 4.9, Hydrology and Water Quality, require compliance with all applicable federal, state, regional, and local agency water quality protection laws and regulations, and commonly utilized industry standards, including (where applicable) obtaining coverage under the stormwater construction general permit and industrial general permit issued by the SWRCB and complying with industry stormwater management standards for construction and operational activities. In addition, they require that any oil and gas applicant not subject to state or federal stormwater management laws, regulations or general permits, must implement a drainage plan as specified in the Kern County Grading. These measures ensure that all sites subject to the Project's Chapter 19.98 conformity review process will implement stormwater drainage control measures that meet applicable water quality and other legal requirements. The conservative disturbance factors used in the EIR account for all activities, including stormwater management measure implementation, related to oil and gas activities subject to the Project's Chapter 19.98 conformity review process. Therefore, with the implementation of the stormwater mitigation measures in Section 4.9, Hydrology and Water Quality, would further ensure that impact would be less than significant.

Finding:

Without mitigation, the Project has the potential to require or result in the construction of new stormwater drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects. This impact will be reduced to a less than significant level through implementation of the mitigation measures discussed below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to require or result in the construction of new stormwater drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects. The stormwater mitigation measures described in section II(9) of these findings related to Hydrology and Water Quality, will be incorporated into the Project to reduce this cumulative impact to a level that is less than significant.

Significant Effect:

Without mitigation, the Project has the potential to result in a determination by the wastewater treatment provider that serves or may serve the Project that serves or may serve the Project that it has adequate capacity to serve the Project's projected demand in addition to the provider's existing commitments (Impact 4.17-5).

Description of Specific Impact:

Almost all oil and gas activities in the Project Area would occur in locations that are not served by, or planned to be served by, constructed, municipal, or regional wastewater treatment facilities. Potential impacts related to the capacity of a wastewater treatment provider to meet Project-related demands would be less than significant. Potential impacts related to produced water and other wastewater treatment and disposal will be less than significant with mitigation. Potential impacts related to onsite domestic wastewater treatment will be mitigated to less than significant levels by requiring the installation of septic systems where applicable in compliance with Kern County standards. No population or employment growth is anticipated as part of the Project beyond the continued gradual growth attributed to the region as a whole. Therefore, Project-related sanitary wastewater generation would not exceed the capacity of wastewater treatment providers, and impacts would be less than significant.

Finding:

Without mitigation, the Project has the potential to result in a determination by the wastewater treatment provider that serves or may serve the Project that serves or may serve the Project that it has adequate capacity to serve the Project's projected demand in addition to the provider's existing commitments. This Project will incorporate mitigation measures that will reduce this potential impact to a less than significant level.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to result in a determination by the wastewater treatment provider that serves or may serve the Project that serves or may serve the Project that it has adequate capacity to serve the Project's projected demand in addition to the provider's existing commitments. Mitigation Measure **MM 4.17-1** will be incorporated into the Project to reduce this potential impact to a less than significant level.

Significant Effect:

Without mitigation, the Project has the potential to be served by a landfill with insufficient permitted capacity to accommodate the Project's solid waste disposal needs (Impact 4.17-6).

Description of Specific Impact:

The Project would generate solid waste during construction and operations. Several landfills within the County have the availability capacity to accommodate the solid waste anticipated to be generated by the Project through and beyond 2035, and as discussed above much of the solid waste that would be generated by oil and gas activities would be managed onsite. Therefore, the Project would not be expected to significantly impact Kern County landfills. Nevertheless, mitigation is required to ensure compliance with policies to reduce waste sent to landfills.

EXHIBIT B

Finding:

Without mitigation, the Project has the potential to be served by a landfill with insufficient permitted capacity to accommodate the Project's solid waste disposal needs. The Project will incorporate mitigation measures, as described below, to reduce this potential impact to a less than significant level.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to be served by a landfill with insufficient permitted capacity to accommodate the Project's solid waste disposal needs. Mitigation Measures **MM 4.17-2**, **MM 4.17-3** and **MM 4.17-5**, described below, will be incorporated into the Project to reduce this impact to a level that is less than significant:

MM 4.17-2 Applicant shall increase the re-use of produced water, and reduce its use of municipal and industrial-quality ground or surface water use to the extent feasible. By the end of 2016, the Applicants shall work with the County to review water use data submitted to Division of Oil Gas and Geothermal Resources under Senate Bill 1281 and identify the five biggest oil industry users of municipal and industrial water by volume. The five biggest oil industry users of municipal and industrial water shall work together to develop and implement a plan identifying new measures to reduce municipal and industrial water use by 2020. The plan shall address the following activities, as appropriate: steam generation; drilling and completions (including hydraulic fracturing); dust control; compaction activities related to construction; and landscaping. Through the KernFLOWS initiative or other efforts (e.g., Groundwater Sustainability Agency), the five biggest oil industry users of municipal-and-industrial water shall also work with local agricultural producers and water districts to identify new opportunities to increase the use of produced water for agricultural irrigation and other activities, as appropriate. Any produced water treated and used for agricultural irrigation or other activities shall be tested and monitored to assure compliance with applicable standards for such agricultural irrigation or other uses.

MM 4.17-3 In the County's required participation for the formulation of a Groundwater Sustainability Agency, the Applicant shall work with the County to integrate into the Groundwater Sustainability Plan for the Tulare Lake-Kern Basin, best practices from the oil and gas industry to encourage the re-use of produced water from oil and gas activities, and (with appropriate treatment) to produce new water supplies for other uses such as agricultural irrigation and groundwater recharge. The produced water re-use goal is 30,000 acre-feet per year, which would offset more than the current use of imported water and groundwater from non-oil bearing zones by the oil and gas industry.

MM 4.17-5 During construction activities for Project facilities, the Applicant shall not store construction waste onsite for longer than the duration of the construction activity, or transport any waste to any unpermitted facilities. The Applicant shall also reduce construction waste transported to landfills by recycling solid waste construction materials, such as taking materials to recycling and reuse locations listed in the brochure on recycling construction and demolition materials available on the Kern County Waste Management Department website.

Significant Effect:

Without mitigation, the Project has the potential to fail to comply with federal, state, and local solid waste statutes and regulations (Impact 4.17-7).

Description of Specific Impact:

The Project would generate solid waste during construction and operations. The 1989 California Integrated Waste Management Act (AB 939) requires Kern County to attain specific waste diversion goals. In addition, the California Solid Waste Reuse and Recycling Access Act of 1991, as amended, requires expanded or new development projects to incorporate storage areas for recycling bins into the Project design. AB 341 requires additional solid waste recycling by 2020. Implementation of mitigation will ensure compliance with policies to reduce waste sent to landfills.

Finding:

Without mitigation, the Project has the potential to fail to comply with federal, state, and local solid waste statutes and regulations. This impact will reduced to a less than significant level through implementation of mitigation measures, as described below.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to fail to comply with federal, state, and local solid waste statutes and regulations. Mitigation Measure **MM 4.17-5**, described above, will be incorporated into the Project to reduce this impact to a level that is less than significant.

C. Environmental Effects of the Project That Cannot Be Mitigated to a Level Less Than Significant.

Significant Effect:

The Project will not have sufficient water supplies available to serve Project demand from existing entitlements and resources, or new or expanded entitlements would be needed (Impact 4.17-4).

Description of Specific Impact:

Based on the potential development of up to 2,697 new production wells per year, oil and gas exploration and production demand for produced water and M&I water would increase from existing levels. Oil and gas demand for produced water is projected to increase by 32,600 AFY, and M&I demand is projected to increase by about 2,982 AFY from 2012 levels by 2035. Produced water demand for agricultural reuse is projected to be 32,771 AFY. Oil and gas exploration and production activities currently generate sufficient produced water to meet existing and future demands for produced water. With respect to the Project's demand for M&I water, however, current drought conditions have severely restricted the availability of imported and local surface supplies throughout California, including the Project Area, and groundwater is being used more heavily to meet Project Area demand, including for oil and gas activities. Surplus M&I-quality water is not available in the Project Area. Any new use reduces the availability of M&I-quality water to another Project Area user, or increases the regional groundwater overdraft if supply shortfalls are addressed by increased groundwater extraction. Consequently, existing entitlements and resources are

insufficient to meet current and projected future M&I water demand in the Project Area. Increasing M&I water demand under overdraft conditions is considered to be a significant impact.

Finding:

The Project could cause significant impacts to existing water supply entitlements and resources. This impact will be reduced with implementation of the feasible mitigation measures described below, but such measures cannot reduce this impact to a less than significant level. Project impacts to water supplies would be significant and unavoidable.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to cause significant impacts to existing water supply entitlements and resources. Mitigation Measures **MM 4.17-2** and **MM 4.17-3**, described above, and **MM 4.17-4**, described below, will be incorporated into the Project to reduce its water supply impacts, but the allocation of water supplies and water demands, the complex laws affecting water rights, the many water districts that have legal jurisdiction over one or more sources of water in the Project Area, the varied technical feasibility of treating produced water, and the produced water reuse opportunities, all present complex variables that fall outside the scope of the County's jurisdiction or control under CEQA. The County concludes that other agencies can and should cooperate in water management planning and implementation actions under the Sustainable Groundwater Management Act and other applicable laws to improve the quantity and reliability of water supplies in the Project Area. Because of significant ongoing regional uncertainties regarding water supplies, and the need for agencies other than Kern County to take action to improve management of regional water supplies to meet existing and reasonable foreseeable demand, Project impacts to water supplies would remain significant and unavoidable.

MM 4.17-4 The Applicant shall work with the County on the Groundwater Sustainability Plan to increase Applicant use of reclaimed water and reduce the Applicant's use of municipal-and-industrial quality imported surface water or groundwater. The Applicant will provide copies of water use reports produced under SB 1281 to the Groundwater Management Agency, which will then integrate this information into the Groundwater Sustainability Plan required under the Sustainable Groundwater Management Act.

D. Cumulative Environmental Effects of the Proposed Project That Will Have a Less Than Significant Impact on the Environment.

None.

E. Cumulative Environmental Effects of the Proposed Project That Will Have a Significant Impact on the Environment.

Significant Effect:

The Project will make a considerable contribution to cumulative impacts on utilities and sewer systems (Impact 4.17-8).

Description of Specific Impact:

Significant cumulative impacts to public services would occur if the cumulative projects would overburden the public service agencies and if utility providers were unable to provide adequate services. The cumulative projects would substantially increase the demand for public service providers and utility servers. The Project would not increase the demand for municipal wastewater treatment, stormwater management, or landfills. Incorporation of the mitigation measures 4.17-1 and 4.17-5 described above would further reduce impacts from the proposed Project, in conjunction with other projects in the area, to a less than significant cumulative level for public utilities use, except water supply.

Future growth will increase water demand in the Project Area by 2035 in average, dry, and multiple dry year conditions, even assuming groundwater extractions remain at historic levels and are not limited to comply with the state's new GSP requirements. The Central Subarea has a supply deficit in average years ranging from -681,596 AF in 2015 to -717,682 in 2035. Surpluses in the Eastern Subarea, generally associated with the availability of diverted water from the Kern River, and smaller average year surpluses in the Western Subarea slightly exceed the supply deficits in the Central Subarea. Under single dry year conditions, Project Area supply deficits in single dry years would range from -750,710 AF in 2015 to -817,127 AF in 2035. Under multiple dry year conditions, Project Area supply deficits in multiple dry years would range from -315,626 AF in 2015 to -383,042 AF in 2035.

Oil and gas demand for M&I water is also projected to increase by about 2,982 AFY from 2012 levels by 2035. Surplus M&I-quality water is not available in the Project Area. Any new use reduces the availability of M&I-quality water to another Project Area user, or increases the regional groundwater overdraft if supply shortfalls are addressed by increased groundwater extraction. Consequently, existing entitlements and resources are insufficient to meet the current and projected future M&I water demand in the Project Area, and increasing M&I water demand under overdraft conditions would contribute to a significant cumulative water supply impact in the Project Area.

Finding:

The Project has the potential to make a considerable contribution to cumulative impacts on utilities and sewer systems, specifically with respect to water supplies. This impact will be reduced with implementation of the feasible mitigation measures described below, but such measures cannot reduce this impact to a less than significant level with respect to water supplies. The Project's cumulative impact to water supplies would be significant and unavoidable.

Brief Explanation of the Rationale for the Finding:

CEQA requires that all feasible and reasonable mitigation be applied to reduce the Project's potential to make a considerable contribution to cumulative impacts on utilities and sewer systems. Mitigation Measures **MM 4.17-1** through **MM 4.17-5**, described above, will be incorporated into the Project to reduce its cumulative water supply impacts, but the allocation of water supplies and water demands, the complex laws affecting water rights, the many water districts that have legal jurisdiction over one or more sources of water in the Project Area, the varied technical feasibility of treating produced water, and the produced water reuse opportunities, all present complex variables that fall outside the scope of the County's jurisdiction or control under CEQA. The County concludes that other agencies can and should cooperate in water management planning and implementation actions under the Sustainable Groundwater Management Act and other applicable laws to improve the quantity and reliability of water supplies in the Project Area. Because of significant ongoing regional uncertainties regarding water supplies, and the need for agencies other than Kern County to take action to improve management of regional water supplies to meet existing

and reasonable foreseeable demand, cumulative impacts to water supplies would remain significant and unavoidable.

SECTION III FINDINGS REGARDING GROWTH INDUCING IMPACTS

The KCGP recognizes that certain forms of growth are beneficial, both economically and socially. Section 15126.2(d) of the CEQA Guidelines provides the following guidance on growth-inducing impacts: a project is identified as growth inducing if it "could foster economic or population growth, or the construction of additional housing, either directly or indirectly, in the surrounding environment."

Growth inducement can be a result of new development that requires an increase in employment, removes barriers to development, or provides resources that lead to secondary growth. With respect to employment, 16,752 workers in Kern County were employed in the oil and gas extraction industry in 2012. Of this total, 14,067 were estimated to be "oilfield" employees. Future oil and gas exploration and production activities that would be authorized under the proposed Amendment to Chapter 19.98 (Oil & Gas Production) of the Kern County Zoning Ordinance would result in 2,697 new production wells being drilled annually, while 2,231 wells would be plugged and abandoned. Additionally, it is anticipated that 1,200 wells would receive some type of well stimulation treatment during this same timeframe. Given the long history of oil and gas development within Kern County, implementation of the Project would not result in a large increase in employment that would significantly induce growth.

With respect to removing barriers to development, such as through providing access to previously undeveloped areas, the oil and gas development activities would involve constructing temporary and permanent access roads. Some roads may be removed and restored after initial construction; some may be reduced in size; and others may be maintained at their construction size for the life of the associated oil and gas operation. In general, these roads would provide for access to oil and gas construction and operation areas and would not provide access into other areas thereby promoting growth-inducing development. No other development would be anticipated as a result of these roads, and oil and gas development would tend to preclude other development from occurring.

While the Project would contribute to energy supply, which supports growth, the development of additional oil and gas resources is a response to increased market demand and is not a factor that induces new growth. Kern County planning documents already permit and anticipate a certain level of growth in the area of the Project and in the state as a whole, along with attendant growth in energy demand. It is this anticipated growth that drives energy-production projects and development, not vice versa. The Project would supply oil and gas to accommodate and support existing demand and projected growth, but it would not foster any new growth. Therefore, any link between the Project and growth in Kern County would be speculative.

In *Kerncrest Audubon Society v. Los Angeles Department of Water and Power*, the analysis of growth-inducing effects contained in the EIR for the Pine Tree Wind Development Project was challenged. Plaintiffs argued that the discussion was too cursory to provide adequate information about how additional electricity generated by the Project would sustain further growth in the Los Angeles area. The court held that the additional electricity that the Project would produce was intended to meet the current forecast of growth in the Los Angeles area. As such, the wind development project would not cause growth, and so it was not reasonable to require a detailed analysis of growth-inducing impacts. In addition, EIRs for similar energy projects have contained similarly detailed analyses of growth-inducing impacts. Their conclusions that increasing the

energy supply would not create growth has been upheld, because: (1) the additional energy would be used to ease the burdens of meeting existing energy demands within and beyond the area of the Project; (2) the energy would be used to support already-projected growth; or (3) the factors affecting growth are so multifarious that any potential connection between additional energy production and growth would necessarily be too speculative and tenuous to merit extensive analysis. Thus, as has been upheld in the courts, this level of analysis is sufficient to inform the public and decision makers of the growth-inducing impacts of the Project.

For the reasons set forth above, the County finds that the Project would not directly or indirectly induce population or economic growth.

SECTION V STATEMENT OF OVERRIDING CONSIDERATIONS

According to Section 15355 of the CEQA Guidelines, the term cumulative impacts "refers to two or more individual effects which, when considered together, are considerable or which compound or increase other environmental impacts." Individual effects that may contribute to a cumulative impact may be from a single project or a number of separate projects. Individually, the impacts of a project may be relatively minor, but when considered along with impacts of other closely related or nearby projects, including newly proposed projects, the effects could be cumulatively considerable.

As discussed above, the County has considered the potential cumulative effects of the proposed Project and found that Project impacts for the following issue areas have been found to be cumulatively considerable:

- Aesthetics;
- Agriculture and Forest Resources;
- Air Quality;
- Biological Resources;
- Cultural Resources;
- Greenhouse Gases (GHGs);
- Hydrology and Water Quality; and
- Utilities and Services (Water Supply).

When an agency approves a project with significant environmental effects that will not be avoided or substantially lessened, in must adopt a "statement of overriding considerations" explaining that, because of the project's overriding benefits, the agency is approving the project despite its environmental harm. (14 Cal. Code Regs. § 15043.) The County's statement of overriding considerations for the Project is as follows:

The California Environmental Quality Act (CEQA) requires a public agency to balance the benefits of a proposed project against its significant unavoidable adverse impacts in determining whether to approve a project. The Amendment to Title 19.98 and related provisions of the Kern County Zoning Ordinance (the Project) will result in environmental effects, which, although mitigated to the extent feasible by the implementation of mitigation measures required for the Project, will remain significant and unavoidable, as discussed in the Final Environmental Impact Report (EIR)

and CEQA Findings of Fact. These impacts are summarized below and constitute those impacts for which this Statement of Overriding Considerations is made.

1. Although implementation of mitigation measures would reduce the adverse visual changes experienced at individual key observation point locations, there are no mitigation measures that would preserve the existing character and quality of the Project Area and its surroundings. Project-related oil and gas activities would continue to produce visible changes to the existing environment and the resultant visual impact is considered significant and unavoidable. The Project has the potential to create a new source of substantial light or glare that would adversely affect day or nighttime views in the area. After implementation of MM 4.1-6, this impact would remain significant and unavoidable.

2. The oil and gas industry has a visible presence on the landscape of the San Joaquin Valley Floor and, the Project in combination with the implementation of other reasonably foreseeable oil and gas projects will continue to result in adverse visible changes within Kern County. Therefore, the Project's cumulative contribution after implementation of the recommended mitigation measures would remain cumulatively significant and unavoidable as a result of these changes in visual character and quality.

3. The Project would continue to generate odors. With implementation of MM 4.3-7, impacts would still be significant and unavoidable.

4. The construction and operational activities of oil and gas activities that would be authorized under the Project would result in an increase of criteria pollutants (oxides of nitrogen [NOx], volatile organic compounds [VOC], carbon monoxide [CO], particulate matter less than 10 microns and less than 2.5 microns in diameter [PM10 and PM2.5, respectively]) in excess of the recommended criteria pollutant significance threshold adopted by the SJVAPCD Board. Emission sources in Kern County contribute between 11% and 21% of criteria pollutant emissions in the San Joaquin Valley Air Basin. The Project would contribute between 2% and 14% of these pollutants in the San Joaquin Valley Air Basin or between 19% and 97% of Kern County's contribution. This analysis indicates that most sulfur dioxide (SO2) emissions in Kern County would originate from oil and gas activities and the majority of NOX emissions. Therefore, the proposed Project would have a cumulatively considerable contribution of criteria pollutant (NOX, PM10, PM2.5, CO and SO2) emissions to the Kern County portion of the SJVAB.

5. The geographic scope for cumulative impacts to agricultural and forest resources encompasses the whole of Kern County. The oil and gas exploration and production activities that would be authorized through implementation of the proposed Project along with projected population growth could result in significant and unavoidable cumulative impacts on farmland conversion.

6. Future oil and gas exploration and production activities related to the proposed Zoning Ordinance amendment could contribute to a significant cumulative impact on Project Area biological resources because future use and development of federal, state, and incorporated urban lands are not within the County's jurisdiction or control. Future land uses and development could affect biological resources in each of these jurisdictions and would be undertaken as independent actions with associated impacts, avoidance and minimization requirements, and mitigation, if required, under applicable federal, state, regional and local agency law. Impacts would remain significant and unavoidable with mitigation.

7. While implementation of MM 4.5-1 through MM 4.5-5 would reduce Project impacts to a less than significant level, cumulative impacts to cultural and paleontological resources within and beyond

the boundaries of the Project Areas (including on lands within incorporated cities and on lands owned by other government agencies) would be significant. The County lacks the jurisdiction and control over these other jurisdictions and thus cannot enforce cultural and paleontological resource mitigation measures to reduce cumulative cultural and paleontological impacts to a less than significant level.

8. The Project has the potential to conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases. With the implementation of MM 4.7-5, the impact would remain significant and unavoidable.

9. The geographic scope for cumulative impacts for GHGs includes the area within 6 miles of the external Project Area boundary, and areas (*e.g.*, incorporated cities) within the Project Area. Climate change impacts are inherently global and cumulative, and not Project specific. While implementation of MM 4.7-1 through MM 4.7-3 and the 2014 Regional Transportation Plan mitigation measures would encourage reduction in GHG emissions at a regional level, they do not provide a mechanism that guarantees GHG emission reductions on a cumulative basis. The Project's cumulative contribution after implementation of the recommended mitigation measures would remain cumulatively significant and unavoidable as a result of the GHG emissions associated with the Project.

10. Although MM 4.17-2 through MM 4.17-4 would encourage the additional reuse of produced water, the extent to which oilfield operators can increase produced water reuse and decrease municipal and industrial demand is uncertain. As a result, potential impacts to groundwater levels and aquifer volumes would be significant and unavoidable with mitigation.

11. Project hydrology and water quality impacts could be cumulatively considerable impacts and thus considered significant. Implementation of MM 4.9-1 through MM 4.9-6 would reduce potential cumulative impacts to water quality, erosion risks, flooding and other hydrologic resources to less than significant with mitigation. Although MM 4.17-2 through MM 4.17-4 encourage the additional reuse of produced water, the extent to which oilfield operators can increase produced water reuse and decrease municipal and industrial demand is uncertain. As a result, cumulative impacts to groundwater would be significant and unavoidable. The County lacks jurisdiction and control over land conversions, and actions or approvals by other agencies that may cause cumulatively significant impacts to hydrology or water quality in the region; accordingly, this impact remains significant and unavoidable.

12. Implementation of MM 4.17-2 to MM 4.17-4 could reduce water supply impacts, but the allocation of water supplies and water demands, the complex laws affecting water rights, the many water districts that have legal jurisdiction over one or more sources of water in the Project Area, the varied technical feasibility of treating produced water, and the produced water reuse opportunities all present complex variables that fall outside the scope of the County's jurisdiction or control under CEQA. Although mitigation measures would reduce Project water supply impacts, such impacts would remain significant and unavoidable after mitigation.

13. The geographic scope for cumulative impacts to utilities and service systems includes the area within 6 miles of the external Project Area. Cumulative impacts would be significant and unavoidable with respect to water supply, even with implementation of MM 4.17-1 through MM 4.17-5.

Findings:

EXHIBIT B

The Board of Supervisors finds and determines in approving the Project that the Final EIR has considered the identified means of lessening or avoiding the Project's significant effects and that to the extent any significant direct or indirect environmental effects, including cumulative project impacts, remain unavoidable or not mitigated to below a level of significance after mitigation, such impacts are at an acceptable level in light of the social, legal, economic, environmental, technological and other project benefits discussed below, and such benefits override, outweigh, and make "acceptable" any such remaining environmental impacts of the project (CEQA Guidelines Section 15092(b)).

The following benefits and considerations outweigh such significant and unavoidable adverse environmental impacts. All of these benefits and considerations are based on the facts set forth in the Findings, the Final EIR, and the record of proceedings for the Project. Each of these benefits and considerations is a separate and independent basis that justifies approval of the Project, so that if a court were to set aside the determination that any particular benefit or consideration will occur and justifies project approval, this Board of Supervisors determines that it would stand by its determination that the remaining benefit(s) or consideration(s) is or are sufficient to warrant project approval.

Facts:

Each benefit set forth below constitutes an overriding consideration warranting approval of the Project, independent of the other benefits, and the Board of Supervisors determines that the adverse environmental impacts of the Project are "acceptable" if any one of these benefits will be realized.

The benefits set forth below are more fully outlined in the Final EIR and in the attached independent report entitled *The Economic Contribution of the Oil and Gas Industry in Kern County*.

The Project will provide benefits to Kern County as follows:

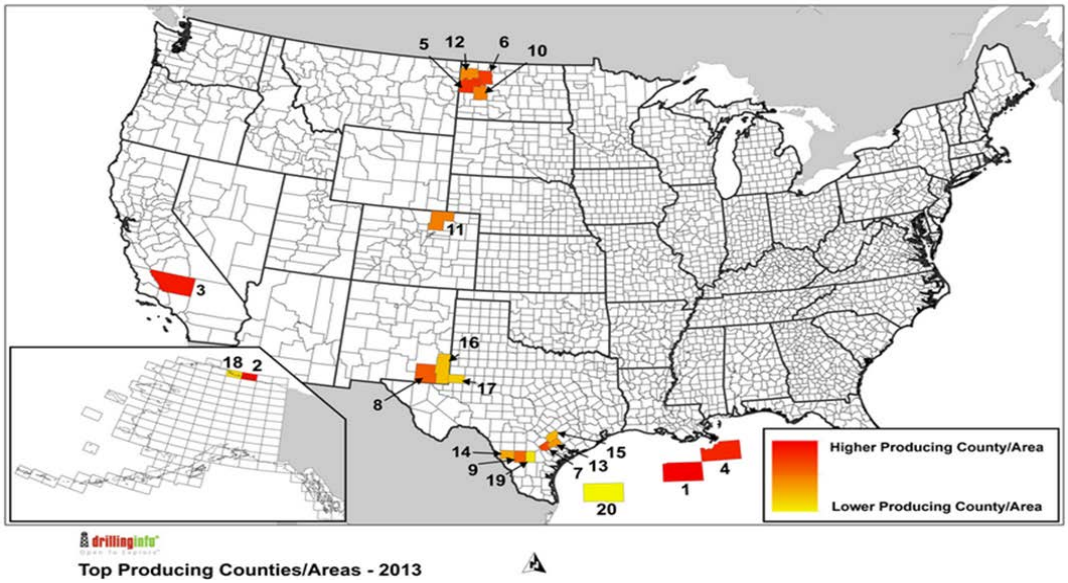
1. General Economic and Community Benefits of the Project to the County

Below are a few examples of how oil and gas companies contribute to the community and benefit the local economy. The Project, by spurring continued oil and gas activity in the County, ensures these benefits will persist.

Kern is the leading oil-producing county in the nation, yielding 145 million bbl of oil and 132 billion CF of gas annually, according to 2014 DOGGR data:

Top 20 Oil Producing Counties/Regions

EXHIBIT B

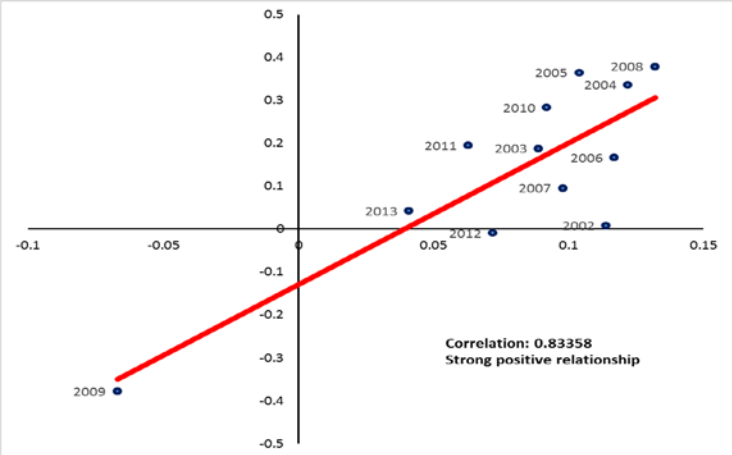


These amounts represent 71% of California's oil production and 10% of the total U.S. oil production. Kern County produces 66% of the state's total gas production. The oil and gas industry is the number-one industry in Kern County in terms of gross domestic product and tax contributions. The industry generates significant regional economic activity. Extraction, production, refining, and petroleum product manufacturing result in highly tradable products that are consumed domestically and are also exported. These efforts produce high revenues, create high wage jobs, and contribute significant tax revenue to all levels of government. The impact of the oil and gas industry is very far-reaching. The approximately $3.8 billion paid in 2013 to local oil and gas employees creates a significant "ripple effect" phenomenon in the local economy. Direct activity includes the materials purchased and the employees hired by the industry itself. Indirect effects are those which stem from the employment and business revenues motivated by the purchases made by the industry and any of its suppliers. Increased output generates new money in the community, resulting in increased spending on new homes, durable goods such as cars and appliances, plus additional spending on restaurants and entertainment options.

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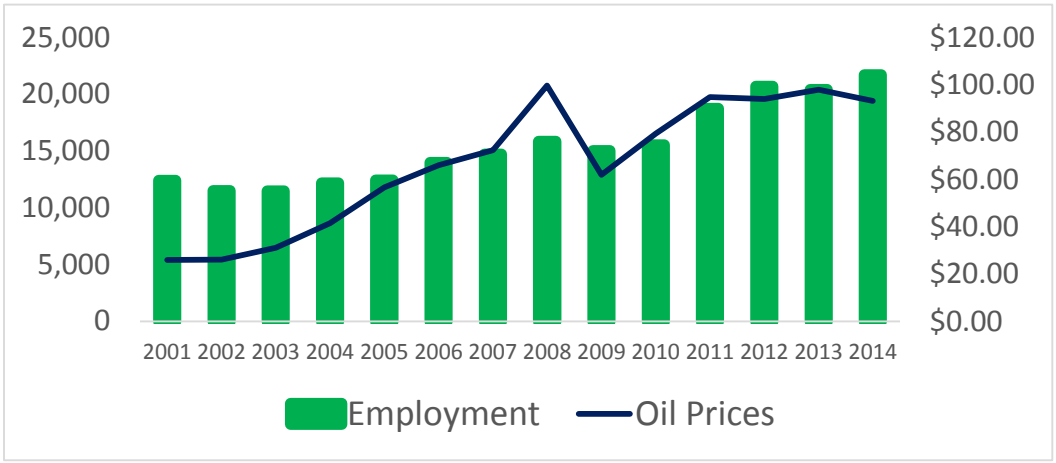
There is also a correlation between rising oil prices and regional economic growth. Seventy of GDP growth over the period 2001-2013 could be directly attributed to rising oil prices:

Change in Kern Oil Prices vs. Kern GDP Growth, 2001-2013



Local employment increases / decreases are associated with shifts in oil prices:

Kern County O&G Industry Employment vs. Kern Oil Prices, 2001-2014



Kern County's oil and gas industry also significantly impacts the community through its philanthropic activity and contributions to local education efforts. More than $5.5 million was donated to more than 130 local non-profits and educational programs in 2014. Kern County's two community colleges, California State University - Bakersfield, and K-12 funding are the most frequent beneficiaries of the financial support. Social service non-profits (*e.g.*, the Homeless Center / Alliance Against Family Violence) and health-related organizations (*e.g.*, the American Heart Association) also rank among the top recipients.

Several science, technology, engineering and math programs were started or sustained due to oil and gas industry funding at Taft College and Bakersfield College. California State University - Bakersfield opened its new Fabrication Lab in 2014 due, in large part, to oil and gas funding. These programs, plus others like a local welding program and a hands-on research program for high school students, help prepare students for a variety of careers. An industry-funded program at Taft

College places students in positions with local non-profit organizations; some are traditional students, and some are part of the Transition to Independent Living program which serves students with developmental / intellectual disabilities. The oil and gas funding provides wages for these students.

More than 15,000 oil and gas employee hours were volunteered for local programs in 2014, and the United Way states that oil and gas employees (plus oilfield service company employees) donated nearly $400,000 during the 2013/14 fiscal year.

2. Local Tax Revenues

As outlined in detail below, the oil and gas industry accounted for roughly 30% of the Kern County's $100 billion in property tax valuations in 2014. Taxes paid by the oil and gas industry play a major role in the support of local infrastructure, including schools, public safety, streets and roads, and parks. The Project will advance the continued production of oil and gas resources in Kern County, thereby securing an important local tax base.

Kern County Assessed Property Values, 2014

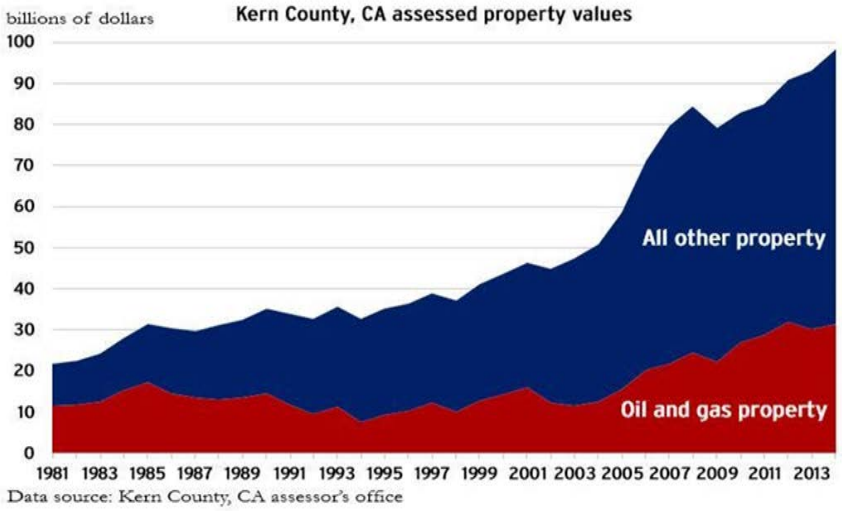


EXHIBIT B

Economic and Fiscal Contribution of the O&G Industry in Kern County, 2013

ECONOMIC CONTRIBUTION	Employment	Labor Income	Value Added	Output
Direct	23,857	$2,954.2	$4,891.6	$15,152.3
Indirect	7,073	$359.1	$517.7	$955.7
Induced	13,615	$508.0	$957.6	$1,580.8
TOTAL CONTRIBUTION	44,544	$3,821.4	$6,366.9	$17,689.1
Percent of Total CA Contribution	11.8%	11.6%	10.0%	9.2%
Percent of County Total	11.0%	17.0%	17.9%	27.0%

FISCAL CONTRIBUTION	State and Local ($ millions)	Federal ($ millions)	Total Taxes ($ millions)
Sales and excise taxes	$607.6	$164.7	$772.3
Property taxes	$285.6	-	$285.6
Personal income taxes	$117.2	$307.7	$424.9
Corporate profits taxes	$31.6	$125.2	$156.8
Social insurance taxes	$13.9	$387.9	$401.8
Other taxes	$63.6	$28.9	$92.5
Fees, fines and permits	$26.3	$7.3	$33.7
TOTAL TAX REVENUES	$1,145.7	$1,021.8	$2,167.5

Source: LAEDC

3. Local Job Creation

Kern County's oil and gas industry is a significant source of overall employment and also a provider of high-paying jobs that require moderate-to-high skill levels (*i.e.* jobs in technical and engineering occupations). The Project will ensure that these important opportunities continue to be available in Kern County.

Oil and gas-related employment accounts for approximately 1 in 7 jobs in the County. Almost all segments of the industry pay higher wages than the Kern County average. In some more specialized or highly-skilled areas, wages are triple the 2014 county average of $41,100. The oil and gas industry offers higher-than-average wages in Kern County. Oil and gas extraction, consisting of highly skilled engineering and geological jobs, was the highest-paying segment with an average annual salary of nearly $143,000. The average annual salary for the entire sector was $78,000, which is nearly double the "all industries" annual average of $41,100:

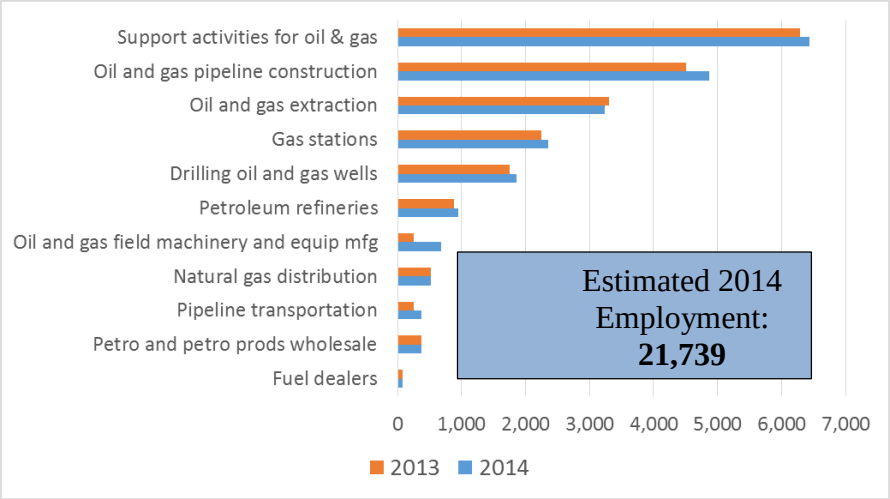
Kern County Oil and Gas Industry Annual Wages, 2014

NAICS Sub-Sector	Annual Establishments	Annual Average Direct Employment	Total Annual Wages	Annual Wages per Employee
NAICS 211 Oil and gas extraction	56	3,243	$462,232,109	$142,543
NAICS 213111 Drilling oil and gas wells	25	1,864	$149,487,414	$80,219
NAICS 213112 Support activities for oil and gas operations	112	6,432	$503,666,507	$78,307
NAICS 2212 Natural Gas Distribution	4	492	ND	ND
NAICS 23712 Oil and gas pipeline construction	20	4,876	$266,098,995	$54,574
NAICS 32411 Petroleum refineries	26	949	$119,544,267	$125,980
NAICS 333132 Oil and gas field machinery and equipment mfg	12	680	$43,305,000	$63,684
NAICS 4247 Petroleum merchant wholesalers	23	375	$25,277,050	$67,376
NAICS 447 Gasoline stations	199	2,349	$49,312,745	$20,992
NAICS 45431 Fuel dealers	11	74	$3,102,702	$42,071
NAICS 486 Pipeline transportation	13	376	$34,280,826	$91,152
Total, Oil and Gas Industry	**501**	**21,710**	**$1,656,307,615**	**$76,292**
Total, All Industries	16,267	254,620	$10,466,665,862	$41,107

Across the oil and gas industry in 2014, there were approximately 50,000 direct, indirect, and induced energy-related jobs in Kern County. Even using more conservative numbers (excluding

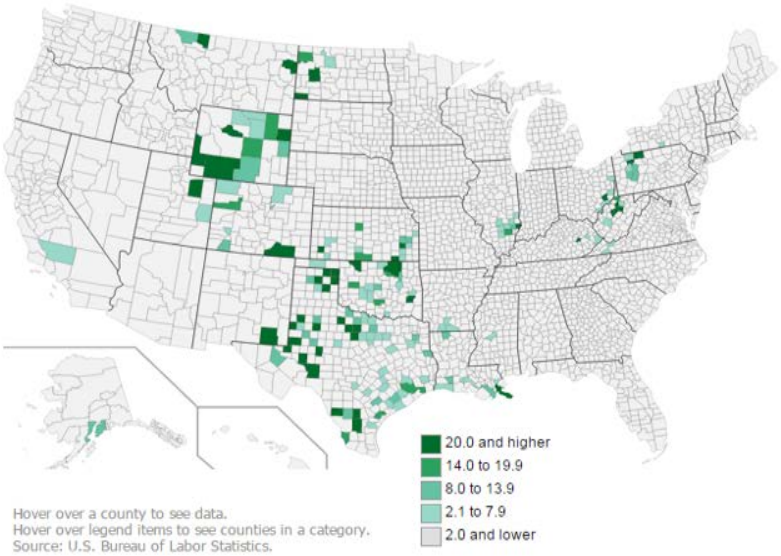
indirect employment opportunities at gas stations, fuel dealers, petroleum wholesale, equipment manufacturing, pipeline construction and the like), the Final EIR estimates that 16,752 workers in Kern County were employed in the oil and gas extraction industry in 2012, with the state employment office measuring a steady increase of employment from 2002 to 2012 at which time growth stabilized around 12,000.

Oil and Gas Direct Employment in Kern County, 2013 vs. 2014



Kern County is the only county in the western region with an above average concentration of oil and gas-related jobs. Kern County is heavily concentrated in oil and gas extraction as well as in oil and gas pipeline construction:

Counties with the Highest Relative Concentration of Employment (Location Quotient) in the Oil and Gas Extraction Industry, 2014



The oil and gas industry is one of the most impactful industry sectors on economic activity throughout the region:

EXHIBIT B

Economic Impact of O&G Expenditures and Production

Impact per $1 million of O&E Extraction Expenditures				
Impacts	***Jobs***	***Wages***	***Value Added***	***Gross Output***
Direct	1.39	$134,740	$395,179	$1,000,000
Indirect	2.44	$174,982	$278,836	$562,231
Induced	2.00	$102,470	$183,927	$305,457
Total	5.83	$412,191	$857,942	$1,867,688
Impact per $1 million O&E Production				
Direct	1.80	$133,757	$542,968	$1,000,000
Indirect	2.18	$157,460	$281,037	$469,367
Induced	1.83	$93,727	$168,233	$279,367
Total	5.80	$384,945	$992,238	$1,748,733

Source: Implan (CA Model)

Kern County recently ranked in the Top 10 in the U.S. in terms of upward mobility and in the overall concentration of science, technology, engineering and math jobs. A majority of Kern County's hi-tech employment is in the oil and gas industry (an estimated 65%), where most positions require technical degrees rather than advanced degrees. Bakersfield College is ranked 6th in the nation among similar schools with regard to which schools' graduates received "added value," based on their mid-career earnings levels. Bakersfield College students were predicted to earn $56,957 annually based on student characteristics and college type, but their mid-career salaries surpassed that prediction, coming in at an average of $67,200 (15% higher than predicted). California State University - Bakersfield also has graduates earning $75,400 at the mid-career point, 11.6% better than the predicted $66,599. The high performance of these colleges and their graduates was due to a combination of factors, including extensive science, technology, engineering and math curriculum in the schools, and the programs' proximity to energy employment centers.

4. Compliance with the Goals and Policies of the Kern County General Plan (General Plan) and Zoning Ordinance

The Project is consistent with various Goal and Policies of the Kern County General Plan, including:

- Protect areas of important mineral, petroleum, and agricultural resource potential for future use.
- Encourage safe and orderly energy development within the County, including research and demonstration projects, and to become actively involved in the decision and actions of other agencies as they affect energy development in Kern County.
- Support and work toward the elimination of disincentives for business and industry to prosper in Kern County, and create special economic development programs to encourage commerce and industry to locate in Kern County.
- Periodically review and update procedures for granting development approvals and permits and facilitate the processing of land use entitlements.

The General Plan Energy Element notes the importance of the oil and gas industry to Kern County. The project will further the Goals and Objectives of the General Plan by enhancing the economic stability of the oil and gas industry in the County.

5. State, Regional and Federal Tax Revenue

EXHIBIT B

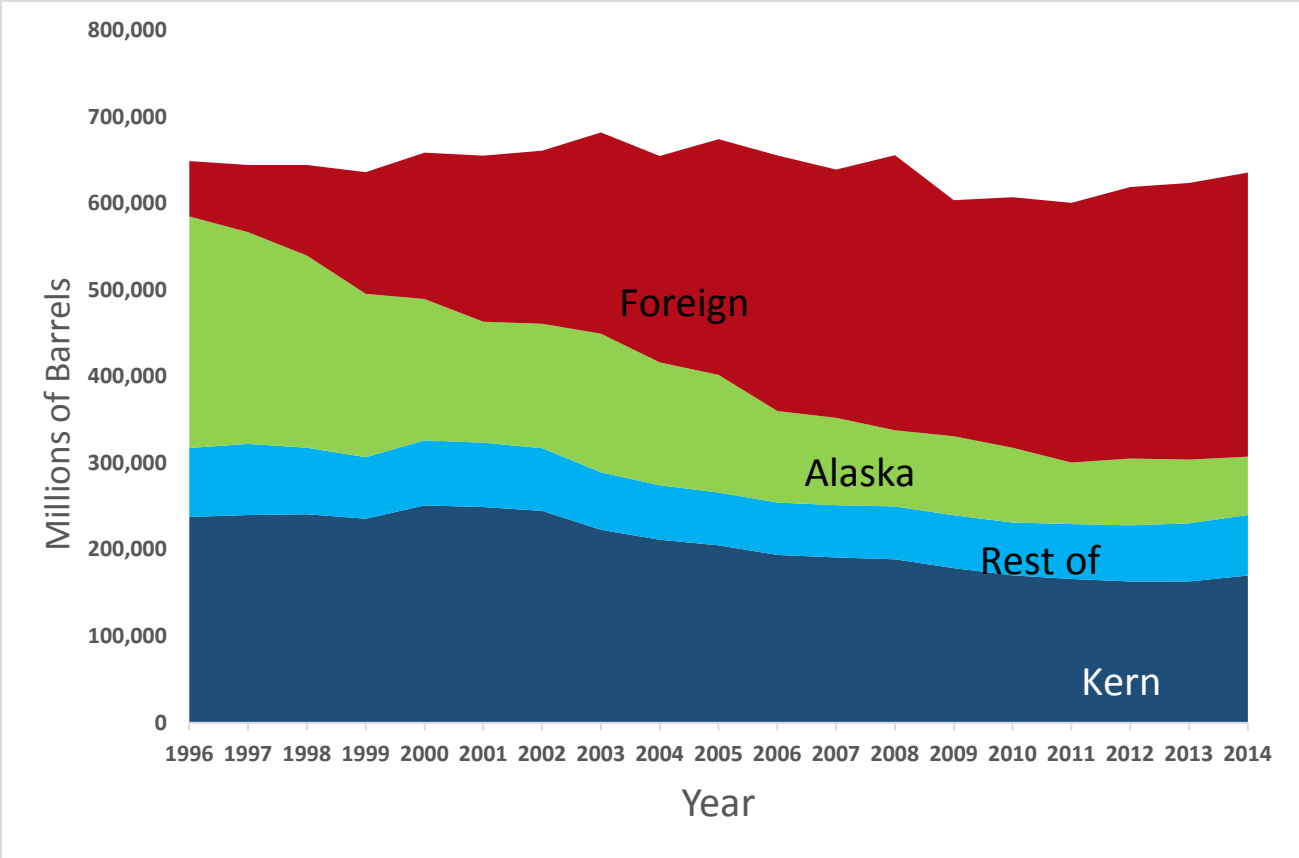
In 2013, economic activity associated with the oil and gas industry in Kern County is estimated to have generated $1.15 billion in state and local tax revenue, plus $1.02 billion in federal tax revenue. The Project will foster the continued production of oil and gas resources in Kern County, thereby securing an important source of tax revenue for California, the western region and the nation.

6. Energy Independence

The Project will allow California producers to better meet current demand and to keep pace with population growth. The Project will also help California to take steps toward strengthening its energy independence, which is financially and environmentally desirable.

California is currently a net importer of oil, producing only about 37 percent of the petroleum that it uses:

Sources Supplying Crude Oil to California Refineries



Dependence on foreign oil makes the state vulnerable to energy shortages and price spikes, and makes us dependent on foreign countries for energy. In addition, Californians then miss out on critical infrastructure funding since imported oil is exempt from California taxes (while high-paying oil and gas jobs then go to foreign countries or other states). All oil and gas produced in California is used here and is produced under the most stringent regulations in the world.

EXHIBIT B

SECTION VI. FINDINGS REGARDING PROJECT ALTERNATIVES

CEQA requires that the lead agency adopt mitigation measures or alternatives, where feasible, to substantially lessen or avoid significant environmental impacts that would otherwise occur. The concept of "feasibility" encompasses the question of whether a particular alternative or mitigation measure promotes the underlying goals and objectives of a project. (*City of Del Mar v. City of San Diego* (1982) 133 Cal.App.3d 410, 417 (*City of Del Mar*); *Sierra Club v. County of Napa* (2004) 121 Cal.App.4th 1490, 1506-1509 [court upholds CEQA findings rejecting alternatives in reliance on applicant's project objectives]; see also *California Native Plant Society v. City of Santa Cruz* (2009) 177 Cal.App.4th 957, 1001 (*CNPS*) ["an alternative 'may be found infeasible on the ground it is inconsistent with the project objectives as long as the finding is supported by substantial evidence in the record'"] (quoting Kostka & Zischke, *Practice Under the Cal. Environmental Quality Act* [Cont.Ed.Bar 2d ed. 2009] (*Kostka*), § 17.39, p. 825); *In re Bay-Delta Programmatic Environmental Impact Report Coordinated Proceedings* (2008) 43 Cal.4th 1143, 1165, 1166 (*Bay-Delta*) ["[i]n the CALFED program, feasibility is strongly linked to achievement of each of the primary project objectives"; "a lead agency may structure its EIR alternative analysis around a reasonable definition of underlying purpose and need not study alternatives that cannot achieve that basic goal"].) Moreover, "'feasibility' under CEQA encompasses 'desirability' to the extent that desirability is based on a reasonable balancing of the relevant economic, environmental, social, legal, and technological factors." (*City of Del Mar*, *supra*, 133 Cal.App.3d at p. 417; see also *CNPS*, *supra*, 177 Cal.App.4th at p. 1001 ["an alternative that 'is impractical or undesirable from a policy standpoint' may be rejected as infeasible"] [quoting *Kostka*, *supra*, § 17.29, p. 824]; *San Diego Citizenry Group v. County of San Diego* (2013) 219 Cal.App.4th 1, 17.)

Were an alternatives analysis required, CEQA requires evaluations of alternatives that can reduce the significance of identified Project impacts that will not be avoided or substantially lessened by mitigation measures and can "feasibly attain most of the basic objectives of the proposed Project." Thus, overall Project objectives were considered by this County in evaluating the alternatives.

The County has defined the following objectives for the Project:

- Update the County's Zoning Ordinance to include additional procedures and compliance standards that address changes in laws and regulations by other agencies, and technological advancements within the oil and gas industry, for the purpose of reducing or eliminating potential significant adverse environmental impacts, to the extent feasible, of future oil and gas activities, and thereby ensure that current County ordinances reflect the County's interest in protecting the health, safety, and general welfare of residents and visitors.
- Encourage ongoing economic development by the oil and gas industry that creates quality, high paying jobs and promotes capital investment in Kern County, which enables the County to invest in capital improvement projects and social programs, which benefit County residents, retail businesses, and capital industries which ensures the County's fiscal stability.
- Continue Kern County's ongoing commitment to consult and cooperate with federal, state, regional, and local agencies by periodically reviewing adopted regulations to ensure the long-term viability of Kern County's resources.
- Continue to improve and streamline current energy regulations and increase County monitoring and involvement in state and federal energy legislation.

- Protect areas of important mineral, petroleum, and agricultural resource potential for future use by promoting sustainability and encouraging best management practices, which are mutually beneficial, through strategic short- and long-range planning.
- Ensure the protection of environmental resources by emphasizing the conservation of productive agricultural lands, the encouragement of planned urban growth, the promotion of clean air strategies to address existing air quality issues, and the promotion of long-term water conservation strategies which will ensure the quality and adequacy of surface and groundwater supplies for future growth of all of Kern County's industries.
- Contain new development within an area large enough to meet generous projections of foreseeable need, but in locations that will not impair the economic strength derived from residential developments, agriculture, rangeland, mineral resources, or diminish the other amenities that exist in Kern County.

The Project Applicants have defined the following objectives for the Project:

- Create an effective regulatory and permitting process for oil and gas exploration and production that can be relied on by the County of Kern, as well as the California Division of Oil, Gas and Geothermal Resources and other responsible agencies.
- Achieve an efficient and streamlined environmental review and permitting process for all oil and gas operations covered by the proposed Project.
- Provide for economically feasible and environmentally responsible growth of the Kern County oil and gas industry.
- Develop industry-wide best practices, performance standards, and mitigation measures that ensure adequate protection of public health and safety and the environment.
- Increase oil and gas exploration and production in Kern County as a means of reducing California's dependence upon foreign sources of energy.
- Increase oil and gas exploration and production in Kern County as a means of increasing employment opportunities and economic prosperity to Kern County's residents, businesses, and local government.

The following findings and brief explanation of the rationale for the findings regarding Project alternatives identified in the EIR are set forth to comply with the requirements of Section 15091(a)(3) of the CEQA Guidelines.

The consideration of alternatives is an integral component of the CEQA process. The selection and evaluation of a reasonable range of alternatives provides the public and decision-makers with information on ways to avoid or lessen environmental impacts created by a proposed project. When selecting alternatives for evaluation, CEQA requires alternatives that meet most of the basic objectives of the Project, while avoiding or substantially lessening the Project's significant effects.

Six alternatives to the Project were defined and analyzed:

Alternative 1: No Project

Finding: As required by CEQA Guideline §15126.6, this chapter describes and analyzes a "no project" alternative for the purpose of comparing the impacts of approving the Project with the impacts of not approving the Project. Alternative 1, the "No Project" Alternative, thus assumes that the Project's proposed amendment to Title 19 of the Kern County Zoning Ordinance will not be approved. Accordingly, Alternative 1 assumes that Chapter 19.98 of the Kern County Zoning Ordinance will not be amended to establish updated development standards and conditions to address environmental impacts of pre-drilling exploration, well drilling and the operation of wells and other oil and gas production-related equipment and facilities, including exploration, production, completion, stimulation, reworking, injection, monitoring and plugging and abandonment. Moreover, Alternative 1 assumes that Chapter 19.98 of the Kern County Zoning Ordinance will not be amended to establish a new "Oil and Gas Conformity Review" ministerial permit procedure for County approval of future well drilling and operations to ensure compliance with the updated development standards and conditions and provide for ongoing tracking and compliance monitoring. Moreover, under Alternative 1, the Zoning Ordinance would not be updated to incorporate the Project's relevant proposed development standards into the County's Dark Skies Ordinance or the Zoning Ordinance provisions governing the Floodplain Primary District, the Petroleum Extraction (PE) Combining District, and Hillside Development.

Alternative 1 assumes that oil and gas development and production activities will continue in the Project Area in accordance with the existing Kern County Zoning Ordinance. As discussed in Chapter 3, Project Description, Section 19.98.020 of the existing Zoning Ordinance currently authorizes "unrestricted drilling," with no County permit required, in County lands zoned for Exclusive Agriculture (A), Limited Agriculture (A-1), Medium Industrial (M-2), Heavy Industrial (M-3) and Natural Resource (NR), subject to compliance with specified conditions and standards which augment those of DOGGR, the SJVAPCD, and applicable fire and safety ordinances and regulations of the County of Kern. Thus, in these zoning districts, no review or permit would be required under the "No Project" Alternative for the drilling of any well intended for the exploration for, or development or production of, oil, gas, and other hydrocarbon substances, or for any related accessory equipment, structure, or facility used as part of the oil and gas production process. However, per the existing Zoning Ordinance, under Alternative 1, drilling would continue to be prohibited within, at minimum, one hundred (100) feet of any existing residence without the written consent of the owner thereof.

Under Alternative 1, oil or gas exploration or production would continue to be allowed within the Floodplain Primary District (FPP), subject to the Special Review Procedures and Development Standards set forth in Zoning Ordinance Section 19.50.130. Moreover, oil or gas exploration or production would continue to be permitted within a Special Planning District (SP), provided it is consistent with the County General Plan land use designation applicable to the subject property and does not create a conflict with the public health, safety, and welfare.

In addition, under Alternative 1, drilling by "ministerial permit" will continue in several zoning districts pursuant to Zoning Ordinance Section 19.98.030. A "ministerial" permit requires an application and review process, but the County does not impose site-specific conditions in such permits and the Applicant is entitled to receive the permit once it demonstrates that relevant standards are met. Under Alternative 1, ministerial permits will continue to be required in the Light Industrial (M-1) and Recreation-Forestry (RF) Districts, subject to specified development standards, which will also continue to apply in Drilling Island (DI) Zone Districts and Petroleum Extraction (PE) Combining District.

Under Alternative 1, a Conditional Use Permit (CUP) will continue to be required for oil or gas exploration or production in all residential districts, including the Estate District (E), as well as in

the Low, Medium, and High-Density Residential Districts (R-1, R-2, and R-3, respectively). A CUP will also continue to be required in commercial districts, including the Commercial Office District (CO), Neighborhood Commercial District (C-1), General Commercial District (C-2) and the Highway Commercial District (CH) as well as in the Platted Lands District (PL). Finally, under Alternative 1, oil and gas exploration or production will continue to be prohibited in Mobile Home Park District (MP) (Section 19.26.040) and in the Open Space District (OS) zoning districts (Section 19.44.040).

Alternative 1 is environmentally inferior to the proposed Project. As explained in Chapter 3, Project Description, the proposed Project would substantially amend sections of the Kern County Zoning Ordinance related to oil and gas exploration and production, including Chapter 19.98, Oil and Gas Production. In doing so, the Project would update and extend to all oil and gas exploration and production facilities development standards and conditions designed to avoid or minimize environmental impacts associated with pre-drilling exploration, well drilling, and the operation of well and other oil and gas production-related equipment and facilities. As discussed in EIR, Chapter 3, Project Description, the updated development standards and conditions include several new requirements that would avoid or minimize the impacts of oil and gas exploration and production related to land use, agricultural resources, biological resources, soils and geological resources, water resources, flooding, fire safety, odor management, noise, air quality, cultural resources, lighting, spill prevention and remediation measures, among other categories. The Project would also establish a new "Oil and Gas Conformity Review" procedure for County approval of future well drilling and operations to ensure compliance with the updated development standards and conditions, and to provide for ongoing tracking and compliance monitoring. If Alternative 1 were adopted, none of the Project's proposed development standards or conditions would be implemented in the County on a consistent basis for all new oil and gas wells in the future and, therefore, Alternative 1 would not achieve the same environmental benefits of the Project. Without implementation of the Project's proposed development standards and conditions, Alternative 1 would have greater environmental impacts than the Project in most impact categories, particularly with respect to impacts related to biological resources, hydrological resources, cultural resources, and noise.

If implemented, Alternative 1 would not achieve most of the Project objectives. Alternative 1 would not update the County's Zoning Ordinance to include additional procedures and compliance standards. Alternative 1 would not streamline the County's current energy regulations, nor would it promote sustainability and best management practices to the same extent as the Project. Compared to the Project, Alternative 1 would not ensure the protection of environmental resources by emphasizing the conservation of productive agricultural lands, the encouragement of planned urban growth, the promotion of clean air strategies, and the promotion of long-term water conservation strategies. Compared to the Project, Alternative 1 would not create an effective regulatory and permitting process for oil and gas exploration and production that can be relied on by the County, DOGGR, and other responsible agencies. Since Alternative 1 would not implement the Project's proposed development standards and conditions, it would not ensure future oil and gas development in a manner that avoids impairing the economic strength derived from residential developments, agricultural, rangeland, mineral resources, other amenities that exist in Kern County. Finally, Alternative 1 would not encourage ongoing economic development by the oil and gas industry that creates quality, high paying jobs and proposed capital investment in Kern County.

In sum, Alternative 1 is environmentally inferior to the Project and would not achieve most of the Project objectives, including its basic objective. Under "no project" conditions, Project activities occur in many zoning districts within the Project Area without any ministerial or discretionary review, based on prior determinations regarding the general land use compatibility of continued oil

and gas extraction activities and the sufficiency of third-party expert agency regulations to protect human health and safety, and the environment. The basic project objective is to substantially expand the County's oversight and enforcement role with respect to new oil and gas well permitting, construction and operations, and to establish a ministerial oil and gas well permitting process that is procedurally structured to avoid imposing excessive administrative burdens, while assuring effective implementation and enforceability. This basic objective cannot be achieved if the Project is not approved and future well permits continue to be processed in accordance with existing zoning regulations.

Facts in Support of Finding: The EIR, including Section 6.0 of the Draft EIR, contains facts and analysis supporting the Finding, some of which are set forth here. Under Alternative 1, oil and gas development and production activities will continue in the Project Area in accordance with the existing Kern County Zoning Ordinance. However, Alternative 1 is environmentally inferior to the proposed Project. If Alternative 1 were adopted, none of the Project's proposed development standards or conditions would be implemented in the County on a consistent basis for all new oil and gas wells in the future. Without implementation of the Project's proposed development standards and conditions, Alternative 1 would have greater environmental impacts than the Project in most impact categories, particularly with respect to impacts related to biological resources, hydrological resources, cultural resources, and noise. Moreover, Alternative 1 would not achieve most of the Project objectives, nor its basic objective. Therefore, the Board hereby rejects Alternative 1.

Alternative 2: CUP Alternative

Finding: Under Alternative 2, the CUP Alternative, all new oil and gas exploration, development, and production activities would be permitted in the Project Area only upon County's issuance of a conditional use permit that authorizes such activities. Under Alternative 2, Chapter 19.98 of the Kern County Zoning Ordinance would be amended to eliminate its Sections 19.98.020 (Unrestricted Drilling) and 19.98.030 (Drilling By Ministerial Permit), and amend Section 19.98.040 to require a conditional use permit for new oil and gas development and production activities in the following zoning districts: Exclusive Agriculture (A); Limited Agriculture (A-1); Medium Industrial (M-2); Heavy Industrial (M-3); Natural Resource (NR); Light Industrial (M-1); Recreation-Forestry (RF); Estate District (E); Low, Medium, and High-Density Residential (R-1, R-2, R-3); Commercial Office (CO); Neighborhood Commercial (C-1); General Commercial (C-2); Highway Commercial (CH); Platted Lands (PL); Floodplain Primary (FPP); and Special Planning (SP). Conforming amendments would also be made to the Zoning Ordinance chapters applicable to each of the above zoning districts to clarify that oil and gas exploration, development and production activities are conditionally permitted uses within such districts. In effect, Alternative 2 would amend the Zoning Ordinance to eliminate all unrestricted, and ministerial approval of, oil and gas exploration, development, and production activities. Under Alternative 2, such activities would only be permitted upon issuance of a conditional use permit in all zoning districts, except the Mobile Home Park District (MP) and the Open Space District (OS), were new oil and gas development and production activities would continue to be prohibited.

Like the Project, Alternative 2 would amend Zoning Ordinance Chapter 19.98 to establish updated development standards and conditions to address environmental impacts of pre-drilling exploration, well drilling and the operation of wells and other oil and gas production-related equipment and facilities, including exploration, production, completion, stimulation, reworking, injection, monitoring and plugging and abandonment. Unlike the Project, however, Alternative 2 would not amend the Zoning Ordinance to establish a new "Oil and Gas Conformity Review" procedure to ensure compliance with all of the updated development standards and conditions and

provide for ongoing tracking and compliance monitoring. Instead, under Alternative 2, implementation of the updated development standards and conditions would occur on a case-by-case basis, as deemed necessary, through the standard conditional use permit approval and compliance monitoring processes.

Although, under Alternative 2, future oil and gas drilling projects in the County would require a discretionary conditional use permit approval from the County that would incorporate site-specific and project-specific conditions of approval to minimize or avoid each project's potential environmental effects, Alternative 2 is ultimately environmentally inferior to the proposed Project. The mitigation program that would be established by the Project would provide mitigation at levels in excess of that which would occur if new wells were subject to discretionary approval following individual environmental review. In this sense, the Project is environmentally superior to Alternative 2 and will better serve regional conservation priorities, such as those described in SJVAPCD's Climate Change Action Plan and air quality attainment plans. Alternative 2 would not achieve the Project's basic objective. Although Alternative 2 would update the County's Zoning Ordinance to include additional procedures and compliance standards for future permitting of oil and gas exploration and development, it would not streamline the County's current oil and gas permitting procedures because it would impose a lengthy and cumbersome discretionary permitting process on all new oil and gas development within the County. The County currently contains approximately 75 active oil and gas fields, and over 2,500 wells are drilled in the County every year. It is not practical to subject every well permit to an individual discretionary approval process, or for environmental reviews to be conducted on every single well or groups of wells. The County lacks the resources to process thousands of oil and gas Negative Declarations and/or EIRs each year. The economic consequences for operators would be severe, delaying drilling for many months during the preparation of costly individualized CEQA documents. Moreover, such individualized review would be highly repetitive, as the thousands of Negative Declarations and EIRs would re-analyze the same impacts and prescribe the same mitigation for each new well or group of wells throughout the County. Accordingly, the basic objective of the Project and this EIR is to eliminate time-consuming and costly discretionary reviews of individual well and field development activities by establishing a ministerial site plan review process which incorporates mitigation identified in this EIR. As such, future County actions processing individual site plans will not trigger further CEQA review by the County. In addition, in the vast majority of cases, this process will avoid the need for responsible agencies to prepare additional CEQA documents for individual well or field development proposals when they are considering the discretionary decisions within their respective jurisdictions. Only if the criteria for supplemental CEQA review under CEQA Section 21166 are met would additional review be necessary. (14 Cal. Code Regs. §§ 15096(e)(3), 15162.) Such streamlined permitting is a permissible objective reflecting land use policy decisions within the authority of a county board of supervisors. *San Diego Citizenry Group v. County of San Diego*, 219 Cal.App.4th 1 (2013). The basic objective of the Project cannot be achieved by Alternative 2, the CUP Alternative.

Facts in Support of Finding: The EIR, including Section 6.0 of the Draft EIR, contains facts and analysis supporting the Finding, some of which are set forth here. Under Alternative 2, the CUP Alternative, all new oil and gas exploration, development, and production activities would be permitted in the Project Area only upon County's issuance of a conditional use permit that authorizes such activities. Alternative 2 would achieve not achieve the Project's basic objective and is environmentally inferior to the proposed Project. Therefore, the Board hereby rejects Alternative 2.

Alternative 3 - Reduced Ground Disturbance Alternative

Finding: Alternative 3, the Reduced Ground Disturbance Alternative, is identical to the Project, except that it would prohibit all new well drilling activities outside existing DOGGR-designated "Administrative Boundary" areas and would require subsurface oil and gas to be extracted from surface equipment located within such Administrative Boundary areas. This alternative would also limit the disturbance footprint on existing agricultural lands to requiring clustering of new wells in locations immediately adjacent to existing oil and gas equipment. As discussed in Chapter 3, Project Description, the vast majority of future oil and gas production in Kern County will occur in and adjacent to Administrative Boundary areas. Accordingly, this alternative assumes that subsurface oil and gas resources located outside of existing Administrative Boundary areas could still be accessed from inside existing Administrative Boundary areas through use of directional and horizontal drilling techniques. Thus, Alternative 3's restrictions on oil and gas exploration and development are assumed to be legally feasible.

Like the Project, Alternative 3 would amend sections of the Kern County Zoning Ordinance relating to oil and gas drilling, including Chapter 19.98 (Oil and Gas Production) to establish updated development standards and conditions to address environmental impacts of pre-drilling exploration, well drilling and the operation of wells and other oil and gas production-related equipment and facilities, including exploration, production, completion, stimulation, reworking, injection, monitoring and plugging and abandonment. Like the Project, Alternative 3 would amend Zoning Ordinance Chapter 19.98 to establish a new "Oil and Gas Conformity Review" ministerial permit procedure for County approval of future well drilling and operations within the Project Area to ensure compliance with the updated development standards and conditions and provide for ongoing tracking and compliance monitoring. Unlike the Project, however, no new ground disturbance from well drilling activities would be allowed outside existing Administrative Boundary areas.

Since Alternative 3 would restrict new oil and gas well surface development to locations within existing Administrative Boundary areas, it will result in less overall ground disturbance than would the Project, which allows for new well development both inside and outside of existing Administrative Boundary areas. Thus, Alternative 3 would have somewhat reduced impacts to agricultural resources, biological resources, aesthetic resources, and hydrologic resources as compared to the Project. Further, Alternative 3 would reduce the Project's significant and unavoidable cumulative aesthetic impacts, though not to a less than significant level.

In addition to its environmental benefits, Alternative 3 would create certain environmental impacts greater than those caused by the Project. If this alternative were adopted, the owners of mineral rights underlying outside of Administrative Boundary areas could only access their mineral interests, if at all, from adjacent lands that are located within an Administrative Boundary area through the use of directional and horizontal drilling techniques, which may not be technologically or economically feasible, depending on geologic conditions and location. Where feasible, the directional and horizontal drilling assumed by this alternative is reasonably expected to require longer drilling periods to reach the mineral source than would be necessary to complete a vertical well. Longer drilling periods mean increased levels of construction-related emissions. It is therefore reasonable to assume that directional and horizontal well development activities under this alternative would cause greater emissions than would occur if the wells were drilled vertically under Project conditions. Thus, while this alternative would have the environmental benefit of impacting fewer acres of land, it would also exacerbate overall emissions of criteria pollutants for which the air basin is in nonattainment.

Alternative 3 would achieve most of the Project objectives. Alternative 3 would update the County's Zoning Code in a manner similar to the Project, though it would reduce the overall Project

surface footprint. Alternative 3 would also encourage ongoing and increased economic development by the oil and gas industry in a manner consistent with the Project objectives, though not to the same extent as the Project. Like the Project, Alternative 3 would streamline the County's oil and gas regulations and environmental review processes. Alternative 3 would also help reduce California's dependence upon foreign sources of energy and would accommodate foreseeable need in appropriate locations, provided more oil and gas can be produced through increased horizontal and directional drilling techniques than would occur under the "No Project" scenario. Alternative 3 would also ensure the protection of environmental resources by emphasizing the conservation of productive agricultural lands and through the development and implementation of industry-wide best practices, performance standards, and mitigation measures, though it would have greater overall environmental effects in some impact categories than would the Project, as discussed above.

Nevertheless, Alternative 3 is not legally or economically feasible. Given the size and unconventional geology of the Project Area, it is reasonable to assume that, in some instances, the owners of mineral interests underlying lands outside of Administrative Boundary areas will not be able to feasibly exercise their mineral rights as a result of the drilling restrictions assumed by this alternative. In such cases, this alternative would arguably destroy all economically beneficial or productive use of such mineral interests, thus exposing the County to economic harm and unreasonable legal liability.

Pursuant to the Fifth Amendment to the U.S. Constitution (applicable to the states through the Fourteenth Amendment), and Article I, Section 19 of the California Constitution, zoning regulations may not be so oppressive that they effect a taking of private property without just compensation. *See Kavanau v. Santa Monica Rent Control Bd.* (1997) 16 Cal.4th 761, 859. This principle of law was first established in the seminal case *Pennsylvania Coal Co. v. Mahon*, wherein the U.S. Supreme Court held that a land use regulation that "goes too far" may effect a taking of that property, even though title to such property remains in private hands. *See* (1922) 260 U.S. 393, 415. Notably, in *Pennsylvania Coal*, the Court determined that a land use regulation prohibiting extraction of privately owned subsurface minerals did indeed "go too far" and effected an unconstitutional taking without just compensation. *Id.*

Since *Pennsylvania Coal*, both the United States Supreme Court and the California Supreme Court have established that a regulation that deprives "all economically beneficial or productive use" of private property effects a *per se* taking of such property. *See Kavanau* at 774 (*citing Lucas v. South Carolina Coastal Council* (1992) 505 U.S. 1003, 1015). Indeed, a regulation that stops short of destroying all economically beneficial use of private property may nevertheless effect a taking depending on the economic impact of the regulation, the extent to which the regulation interferes with distinct investment-backed expectations, and the character of the governmental action. *See Kavanau* at 775-776 (citing *Penn Cent. Transp. Co. v. N.Y.* (1978) 438 U.S. 104, 124). In either case, "the property owner may bring an inverse condemnation action, and if it prevails, the regulatory agency must either withdraw the regulation or pay just compensation. Even if the agency withdraws the regulation, the property owner may have the right to just compensation for the temporary taking while the regulation was in effect." *Id.* at 773

As recognized by the California Supreme Court, the owner of a mineral interest "has a property right in oil and gas beneath the surface" that includes "the exclusive right to drill[.] … This is a right which is as much entitled to protection as the property itself, and an undue restriction of the use thereof is as much a taking for constitutional purposes as appropriating or destroying it." *Bernstein v. Bush* (1947) 29 Cal.2d 773, 778 (internal citations omitted.) Thus, California courts have held that land use regulations that provide "no adequate means of protection or substitute for their right to extract oil" effects a compensable taking of private property. *See, e.g., Braly v. Board*

of Fire Com'rs. of City of Los Angeles (1958) 157 Cal.App.2d 608, 616; *Bernstein v. Bush* (1947) 29 Cal.2d 773, 780. Similarly, federal law recognizes that owners of oil and gas interests "have the right to reduce to possession the oil and gas beneath the surface, and that they could not be absolutely deprived of that right without a taking of private property." *Ohio Oil Co. v. Indiana* (1900) 177 U.S. 190, 209. Alternative 3, if adopted, would deprive the affected mineral owners the right to extract oil and gas beneath the surface, effectively denying them "all economically beneficial or productive use" of their private property. Thus, under *Kavanau* and *Lucas*, adoption of this alternative would expose the County to potentially substantial legal liability.

Kern County leads the state in oil and natural gas production. Kern County produced 77% of California's in-state oil in 2012 and about 64% of the state's total natural gas. Kern County's Elk Hills oilfield is the state's top natural gas producer. Two other fields, South Belridge and Lost Hills, rank in the state's top five for gas production. The state's top five oil producing fields—Midway-Sunset, South Belridge, Kern River, Cymric, and Elk Hills—are located within the Project Area. Three of these fields—Midway-Sunset, South Belridge, and Kern River—are ranked in the top 10 producing oilfields in the nation. Specifically, Kern County produced 141.69 million barrels of oil and 143.16 million cubic feet of natural gas in 2012. The historic production of oil and natural gas in Kern County, from 2002 to 2012, is provided in Draft EIR Chapter 3, Project Description (Table 3-3). As of 2014, of the 100 administrative wellfields located within Kern County, 76 are active fields that continue to produce oil and natural gas.

Kern County is a leading oil-producing county in the nation, yielding approximately 145 million bbl of oil and 132 billion CF of gas annually, according to 2014 DOGGR data. These amounts represent 71% of California's oil production and 10% of the total U.S. oil production. Kern County produces 66% of the state's total gas production (KCEDF, 2015). The oil and gas industry has the highest gross domestic product and tax contribution level in the County. The industry generates significant regional economic activity. Extraction, production, refining, and petroleum product manufacturing result in highly tradable products that are consumed domestically and are also exported. These efforts produce high revenues, create high wage jobs, and contribute significant tax revenue to all levels of government. The impact of the oil and gas industry is very far-reaching. The approximately $3.8 billion paid in 2013 to local oil and gas employees creates a significant "ripple effect" phenomenon in the local economy. Direct activity includes the materials purchased and the employees hired by the industry itself. Indirect effects are those which stem from the employment and business revenues motivated by the purchases made by the industry and any of its suppliers. Increased output generates new money in the community, resulting in increased spending on new homes, durable goods such as cars and appliances, plus additional spending on restaurants and entertainment options.

In 2009, oil reserves in Kern County were estimated at 1,395,171 mbbl, as shown in Table Alt-1(a), below (DOGGR, 2009). Production information available from DOGGR between 2010 and 2014 shows that approximately 720 mbbl were extracted from oilfields in Kern County, for a total reserve of approximately 1,394,450 mbbl of oil, as shown in Table Alt-1(b), below (DOGGR, 2010, 2011, 2012, 2013, 2014). At the current price of $50 per barrel of oil, the Kern County reserves estimated value is $62 billion, and at an average yearly (July 2014 – July 2015) price of $75.60 per barrel of oil the estimated value is $105 billion.

Table Alt-1(a):
2009 Kern County Oil Reserves

District 4

EXHIBIT B

Kern County Oil Field	2009 Reserves mbbl
Buena Vista	5,460
Cymric	78,784
Elk Hills	62,301
Fruitvale	9,173
Kern Front	17,990
Kern River	569,417
Lost Hills	123,699
McKittirck	13,574
Mount Paso	6,344
Mountain View	659
North Belridge	17,460
Round Mt.	7,113
Semitropic	310
South Belridge	482,887
Total	**1,395,171**

Table Alt-1(b):

District 4 Production from 2010 to 2014

(bbl)
148,949,301
143,286,239
141,693,959

Total Kern County taxable property value for the fiscal year beginning July 1, 2015 is $89.2 billion, representing an $8.5 billion decrease or a 9% decline from the prior fiscal year. A decline in overall

Kern County assessed property values was anticipated due to the recent plunge in oil and gas prices and underscores the role of oil and gas as an economic asset in Kern County. The mineral roll represented approximately one third of assessed values for the 2014-2015 tax year but is down to less than one quarter of the county's total assessment for the new fiscal year, 2015-2016 (Kern County Assessor Recorder, http://www.recorder.co.kern.ca.us/). Based on one quarter of the County's total assessment, approximate mineral roll represents a value of $22.3 billion in Kern County, a sizable portion of which is located outside of Administrative Boundary Areas.

A complete ban of oil and gas activities within those portions of the Project Area outside of Administrative Boundary areas would cause enormous economic impacts throughout the County and the state and would adversely impact the investment-backed expectations of many Project Area mineral owners, including both individuals and companies. Even a moratorium on drilling outside of Administrative Boundary Areas would raise similar concerns regarding the County's ability compensate for lost value for the duration of the moratorium using General Fund proceeds derived in large part from taxes on oil and gas production. Mineral and petroleum resources are a fundamental element of Kern County's employment base and overall economy. As new recovery technologies come into use, petroleum extraction should continue its economic importance. Even as California ramps up state laws to promote renewable energy resources and alternative transportation fuels, experts continue to recognize that oil and gas production will continue to be critical, and domestic oil and gas production remains a vital national interest. In sum, a ban on oil and gas activity within the Project Area but outside of Administrative Boundary areas, as contemplated by Alternative 3, is not feasible within the meaning of CEQA.

Facts in Support of Finding: The EIR, including Section 6.0 of the Draft EIR, contains facts and analysis supporting the Finding, some of which are set forth here. Alternative 3 would prohibit all new well drilling activities outside existing DOGGR-designated "Administrative Boundary" areas and would require subsurface oil and gas to be extracted from surface equipment located within such Administrative Boundary areas. This alternative would also limit the disturbance footprint on existing agricultural lands to requiring clustering of new wells in locations immediately adjacent to existing oil and gas equipment. Although Alternative 3 would achieve most of the Project objectives, and would achieve some environmental benefits, these benefits are partially outweighed by this alternative's environmental costs. Alternative 3 would incentivize additional horizontal and directional subsurface drilling activity, as compared to the Project, that would generate greater air quality, greenhouse gas, and toxic air contaminant emissions than would the Project. More importantly, Alternative 3 is legally and economically infeasible because its adoption would conflict with applicable regulatory limitations, would have a significant adverse economic impact on a key County economic sector, and would imprudently expose the County to significant and unreasonable legal liability, as explained below. Since Alternative 3 is, in some respects, environmentally inferior to the Project, and is economically and legally infeasible, it is hereby rejected by the Board of Supervisors.

Alternative 4 – No Hydraulic Fracturing Alternative

Finding: Pursuant to its police power, the County has broad discretion to regulate oil and gas exploration and production activities within its jurisdiction. However, a local government's legal authority to regulate every step in the hydraulic fracturing process is the subject of legal disputes currently pending in certain California courts. Assuming the County has sufficient legal authority to regulate subsurface oil and gas exploration and development activities as contemplated by this alternative, Alternative 4, the No Hydraulic Fracturing Alternative, would implement the Project as proposed, except that it would amend Zoning Ordinance Chapter 19.98 to ban all hydraulic

fracturing activities, a form of well stimulation, within the Project Area. In all other respects, the Alternative 4 is the same as the Project.

Alternative 4 would only prohibit hydraulic fracturing in the Project Area, but it would not prohibit acid fracturing or acid matrix well stimulation techniques. Were Alternative 4 approved, however, it is unlikely that its hydraulic fracturing ban would cause in increase in acid fracturing or acid matrix well stimulation in the Project Area. Hydraulic fracturing is a viable well stimulation treatment in diatomite subsurface formations, as explained in Section 4.9, Hydrology and Water Quality. In contrast, acid fracturing and acid matrix stimulation techniques are only viable in carbonate reservoir rocks and siliciclastic reservoir formations, respectively. Thus, acid fracturing and acid matrix techniques do not serve as viable substitutes for hydraulic fracturing. Moreover, as explained in Section 4.9, there are no carbonate reservoir rocks in Kern County oil and gas fields that would be subject to acid fracturing techniques, in any case. A ban on hydraulic fracturing may, however, cause an increased use of Enhanced Oil Recovery techniques in the Project Area.

For most impacts, Alternative 4 is environmentally comparable to the Project. Indeed, as explained in Section 4.9, Hydrology and Water Quality, most wells that are hydraulically fractured in the Project Area are shallow vertical wells installed in diatomite subsurface formations located in the Western Subarea. Accordingly, in the Central and Eastern Subareas, where little to no hydraulic fracturing is expected to occur, Alternative 4 is essentially the same as Project and would cause generally identical impacts as the Project. Even in the Western Subarea, Alternative 4's environmental effects related to aesthetic, agricultural, and forest resources, biological resources, cultural resources, geology and soils, land use and planning, mineral resources, noise, population and housing, public services, recreation, and utilities and service systems would be generally the same as the Project.

Alternative 4 would achieve most of the Project objectives to some degree. Alternative 4 would update the County's Zoning Code in a manner similar to the Project, though it would also ban hydraulic fracturing in the Project Area. Alternative 4 would also encourage ongoing and increased economic development by the oil and gas industry in a manner consistent with the Project objectives, though not to the same extent as the Project (unless increases in EOR activities spurred by Alternative 4 are able to offset any decrease in oil and gas production caused by a hydraulic fracturing ban). This alternative would also protect areas of important mineral, petroleum, and agricultural resource potential for future use by promoting sustainability and encouraging best management practices. Like the Project, Alternative 4 would streamline the County's oil and gas regulations and environmental review processes. Alternative 4 would also help reduce California's dependence upon foreign sources of energy and would accommodate foreseeable need in appropriate locations, but perhaps not to the same degree as the Project. Finally, Alternative 4 would ensure the protection of environmental resources through the development and implementation of industry-wide best practices, performance standards, and mitigation measures, though it may have greater overall environmental effects in some impact categories than would the Project.

Approval of the No Hydraulic Fracturing alternative would likely cause an increase in greenhouse gas emissions, without a reduction in other adverse impacts. As explained by the California Council on Science & Technology (CCST) in its recent study, *An Independent Scientific Assessment of Well Stimulation in California*, "[t]he majority of impacts associated with hydraulic fracturing are caused by the indirect impacts of oil and gas production enabled by the hydraulic fracturing." According to the CCST, "all oil and gas development causes similar impacts whether the oil is produced with well stimulation or not." The exception to this general rule, however, concerns greenhouse gas emissions.

According to CCST:

> Fields with lighter oil result in low emissions per barrel of crude produced, while fields with heavier oil have higher emissions because of the need for steam injection during production as well as more intensive refining needed to produce useful fuels such as gasoline. Well stimulation generally applies to reservoirs with lighter oil and consequently smaller greenhouse gas burdens per unit of oil. Oil and gas from San Joaquin Basin reservoirs using hydraulic fracturing have a relatively smaller carbon footprint than oil and gas from reservoirs such as those in the Kern River field that use steam flooding. If well stimulation were disallowed and consumption of oil and gas in California did not decline, more oil and gas would be required from non-stimulated California fields …, possibly with higher emissions per barrel. Consequently, overall greenhouse gas emission due to production could increase if well stimulation were stopped in California.

Thus, if well stimulation were disallowed, as contemplated by the No Hydraulic Fracturing Alternative, more oil and gas would be required from non-stimulated California fields. This would likely result in an overall increase in greenhouse gas emissions, without an overall increase in other adverse environmental impacts. Accordingly, the No Hydraulic Fracturing Alternative would be environmentally inferior to the Project in terms of air quality impacts.

Moreover, Alternative 4 is legally infeasible. Local legislation that conflicts with state law is preempted and void. *Conejo Wellness Ctr., Inc. v. Agoura Hills* (2013) 214 Cal. App. 4th 1534, 1552. A conflict can occur if the local ordinance duplicates state law, contradicts state law or enters an area or field fully occupied by state law. *Id.* "Local legislation enters an area or field that is 'fully occupied' by state law when the Legislature has either expressly manifested its intent to fully occupy the area or has impliedly has done so." *Id.* "Implied preemption occurs when: (1) general law so completely covers the subject as to clearly indicate the matter is exclusively one of state concern; (2) general law partially covers the subject in terms clearly indicating a paramount state concern that will not tolerate further local action; or (3) general law partially covers the subject and the adverse effect of a local ordinance on transient citizens of the state outweighs the possible municipal benefit." *Big Creek Lumber Co. v. Santa Cruz* (2006) 38 Cal. 4th 1139, 1157–1158.

The California Attorney General has concluded that, through enactment of the comprehensive California oil and gas laws set forth in Division 3 of the Public Resources Code, commencing with section 3000, and its implementing regulations, the State had completely covered the field with respect to "down-hole or subsurface" oil and gas operations:

> In our view, the conservation and protection of the state's finite energy resources, by means of regulatory policy reviewed herein, transcends local boundaries and interests. Oil, gas and geothermal resources are flung far and wide around the state; to leave the simultaneous regulation of their development to various local entities would subject development of the state's fuel resources to [a] "checkerboard of regulations[.]" ... Such local regulation could obviously interfere with and frustrate the state's conservation and protection regulatory scheme reviewed above. This "checkerboard" problem seems highlighted by the fact that this state's deposits of energy resources do often extend under the boundaries of several local entities as, for example, in the Los Angeles basin. In our view, the drilling and production of energy resources represents an endeavor of commercial activity that commands uniform regulation. … The statutory and administrative regulatory scheme outlined above reveal to us a comprehensive purpose and scope broad enough to

> exclude local regulation in each instance where the [State Oil & Gas] Supervisor or his regulatory program approves or specifies plans of operation, methods, materials, procedures or equipment to be used by the operator or where activities are to be carried out under the direction of the Supervisor as part of the Supervisor's regulation for purposes of conservation or protection of resources.

59 Ops. Cal. Atty. Gen. 461, Opinion No. 76-32 (Aug. 24, 1976) at 477-478. On this basis, the Attorney General concluded that the state oil and gas laws "appear to occupy fully the underground phases of oil and gas activities" and that, "in all probability there will in our view be a [preemptive] conflict with state regulation when a local entity, attempting to regulate for a local purpose, directly or indirectly attempts to exercise control over subsurface activities." *Id*. at 478.

With the recent enactment of SB 4 and the California Department of Conservation, Division of Oil Gas and Geothermal Resources' (DOGGR's) permanent WST regulations, the level of complexity, detail, and comprehensive quality of the State oil and gas laws has only increased since the Attorney General first concluded that local down-hole regulation of oil and gas activities is preempted by state law. The complexity and specificity of SB 4 and its implementing regulations are described in detail on Draft EIR pages 4.9-108 through 4.9-109. This new mandatory regulatory program only reinforces the Attorney General's prior determination that the State's statutory and administrative regulatory scheme governing subsurface oil and gas activities presents "a comprehensive purpose and scope broad enough to exclude local regulation[.]" Accordingly, County regulations limiting subsurface WST operations would be preempted. Kern County retains its police power, and may enact laws in furtherance of public health, safety and the general welfare, including ordinances regulating oil and gas activities at the surface. However, the County is prohibited from enacting laws that ban or control WST operations in areas where oil and gas operations are allowed to take place. In addition, to the extent the Alternative 4, the No Hydraulic Fracturing Alternative would deny affected mineral rights holders all economically beneficial or productive use of such mineral rights, then such alternative would be legally and economically infeasible for the same reasons described above for Alternative 3.

Facts In Support of Finding: The EIR, including Section 6.0 of the Draft EIR, contains facts and analysis supporting the Finding, some of which are set forth here. Alternative 4 would implement the Project as proposed, except that it would amend Zoning Ordinance Chapter 19.98 to ban all hydraulic fracturing activities, a form of well stimulation, within the Project Area. Although Alternative 4 would achieve most of the Project objectives to some degree and reduce some of the Project's significant effects, it would also cause an increased use of Enhanced Oil Recovery techniques in the Project Area, which would in turn cause a corresponding increase in the emission of greenhouse gases and criteria air pollutants, as compared to the Project. Moreover, Alternative 4 is legally and economically infeasible. Therefore, the Board hereby rejects Alternative 4.

Alternative 5 – Low-Emission Enhanced Oil Recovery (EOR) Technology Alternative

Finding: Alternative 5, the Low-Emission Enhanced Oil Recovery (EOR) Alternative, is identical to the proposed Project, except that the updated development standards and conditions required by the Project's proposed Zoning Ordinance amendment would be expanded to require oil and gas well permit applicants to implement low-emission EOR technology as a condition of permit approval for new and replacement steam generators, and to replace existing steam generators constructed prior to 1990 within five years of enactment of the amended Ordinance. As explained in Chapter 3, Project Description, EOR is a production technique used to increase the mobility of oil, most commonly through steam injection techniques that reduce the viscosity of the hydrocarbons and allow produced fluids to flow. There are four major types of EOR operations:

waterflood; thermal (i.e., steamflood, cyclic steam and in-situ combustion); CO_2 or other gas (miscible and immiscible); and chemical/polymer flooding (i.e., alkaline flooding or micellar-polymer flooding). With thermal EOR, steam is injected into a well, which necessitates the installation of steam generators at the well. Steam generators are large heaters that generate steam, usually from produced groundwater. Under Alternative 5, all new and replacement steam generators for thermal EOR activities would be required to implement lower-emission steam generation technology, such as, by way of example, the ClearSign Duplex Tile combustion technology or similar technologies. In all other respects, Alternative 5 would be identical to the Project.

Alternative 5's environmental effects would be generally the same as the Project, except Alternative 5 would have reduced air quality and greenhouse gas impacts, as compared to the Project. With respect to new Project-level emissions, Alternative 5 and the Project, as mitigated, would have similar air quality and greenhouse gas impacts. However, Alternative 5's additional requirement that certain existing pre-1990 steam generators be replaced within five years of enactment of the amended Zoning Ordinance would further reduce emissions that are included in the baseline emissions inventory, a reduction that would not occur under Project conditions. In addition, it is expected that Alternative 5's required low-emission steam generation technology would be more fuel efficient than Project technology, thus reducing overall fuel transportation and handling impacts, as compared to the Project. Alternative 5 is not expected to cause any environmental impacts that would be greater than those caused by the Project.

Alternative 5 would meet most of the Project objectives. This alternative would update the County's Zoning Ordinance to include additional procedures and compliance standards that address changes in laws and regulations by other agencies, and it would continue to improve and streamline current energy regulations and increase County monitoring and involvement in state and federal energy legislation. Alternative 5 would also protect areas of important mineral, petroleum, and agricultural resource potential for future use by promoting clean air strategies to address existing air quality issues. Alternative 5 would provide sufficient new development within an area large enough to meet generous projections of foreseeable need but in locations that will not impair the economic strength derived from residential developments, agriculture, rangeland, mineral resources, or diminish the other amenities that exist in Kern County. Alternative 5 would also create an effective regulatory and permitting process for oil and gas exploration and production that can be relied on by the County and other responsible agencies, and it would develop industry-wide best practices, performance standards and mitigation measures that ensure adequate protection of public health and safety and the environment. Finally, this alternative also has the potential to increase oil and gas exploration and production in Kern County as a means of (i) reducing California's dependence upon foreign sources of energy, and (ii) increasing employment opportunities and economic prosperity to Kern County's residents, businesses, and local government.

However, Alternative 5 is not technologically or economically feasible. Low-emission steam generation technologies are still in the demonstration and prototype phase. ClearSign Duplex (CSD) technology, which is referenced as a possible technology in Alternative 5, involves ceramic tile and burner modification. One operator (Aera) is conducting pilot testing of CSD. At least one other operator (Chevron) is considering pilot testing low-emission steam generation technologies. All technologies currently under consideration require additional testing and validation in actual operating conditions and environments before they can be considered field-proven.

Long-term effectiveness and commercial viability of either technology still remain to be determined, and no company has deployed either technology to date. Furthermore, because the technologies are still in development, the cost of installing the equipment is high compared to the

resulting emissions decreases. As such, the technology is not yet readily available on a commercial scale for implementation in oil and gas production in Kern County. The technological infeasibility of Alternative 5 is further demonstrated by the current Best Available Control Technology (BACT) Guideline for oilfield steam generators in the San Joaquin Valley Air Pollution Control District (SJVAPCD). The federal Clean Air Act requires implementation of BACT, defined as an emission limitation that the relevant permitting entity "determines is achievable." 42 USC § 7479. Similarly, the SJVAPCD defines BACT as the most stringent emission limitation or control technique (1) achieved in practice; (2) contained in any State Implementation Plan, if presently achievable; (3) contained in an applicable New Source Performance Standard; (4) "Any other emission limitation or control technique, including process and equipment changes of basic or control equipment, found … to be cost effective and technologically feasible …" Rule 2201, Section 3.10. The SJVAPCD BACT guideline was last updated in March of 2014 and currently requires 6 ppm NOx at 3% O_2 for steam generators that operate at 85 MMBtu/hr; and 7 ppm NOx at 3% O_2 for steam generators that operate at less than 85 MMBtu/hr.[1] By comparison, the low-emission steam generation technology contemplated by Alternative 5 would be expected to achieve rates comparable to or lower than 5 ppm NOx at 3% O_2 for steam generators operating at 55 MMBtu/hr. The fact that the rates in the current SJVAPCD BACT guideline are higher than what is contemplated by Alternative 5 further supports the conclusion that the technology required by Alternative 5 has not yet been achieved in practice, has not been shown to be presently achievable and is not technologically feasible. Alternative 5 is therefore properly rejected as an alternative. Moreover, at such time as the SJVAPCD determines that low-emission steam generation technology has become feasible, it would be expected to update its BACT guidelines accordingly.

Facts In Support of Finding: The EIR, including Section 6.0 of the Draft EIR, contains facts and analysis supporting the Finding, some of which are set forth here. Alternative 5, is identical to the proposed Project, except that it would require oil and gas well permit applicants to implement low-emission EOR technology as a condition of permit approval and to replace existing steam generators constructed prior to 1990 within five years of enactment of the amended Ordinance. Alternative 5 would meet most of the Project objectives and it would further reduce emissions that are included in the baseline emissions inventory, a reduction that would not occur under Project conditions. In addition, it is expected that Alternative 5's required low-emission steam generation technology would be more fuel efficient than Project technology, thus reducing overall fuel transportation and handling impacts, as compared to the Project. As explained below, Alternative 5 is the environmentally superior alternative to the Project. However, for the reasons discussed above, Alternative 5 is neither technologically nor economically feasible..

Alternative 6 – Recycled Water Alternative

Finding: Under Alternative 6, the Recycled Water Alternative, the Applicants would be required to treat an amount produced water that is currently being disposed of via underground injection wells which is equivalent to the amount of M&I water used in Applicant's operations. The produced water reuse goal is 30,000 acre-feet per year, which would offset more than the current use of imported water and groundwater from non-oil bearing zones by the oil and gas industry. Such produced water would be required to be treated, recycled and put to an alternate use such as agricultural irrigation to the extent feasible. Under Alternative 6, Applicants would be required to fund treatment and conveyance facilities for produced water for local re-use (such as agricultural irrigation). For purposes of analysis in this EIR, this Alternative assumes that water treatment facilities would be located in Tier 1 areas more than 1000 feet away from the nearest sensitive

[1] http://www.valleyair.org/busind/pto/bact/bactLoader.htm.

receptor, that treatment facilities would be subject to New Source Review permit requirements (where applicable) including use of best available control technology to minimize air emissions, that remaining criteria and GHG emissions would be fully offset, and that waste products (including residuals from treated produced water) would be disposed of in accordance with applicable law. In all other respects, Alternative 6, the Recycled Water Alternative, is identical to the proposed Project.

Alternative 6 would meet most of the Project objectives. For example, this alternative would update the County's Zoning Ordinance to include additional procedures and compliance standards that address changes in laws and regulations by other agencies, and it would continue to improve and streamline current energy regulations and increase County monitoring and involvement in state and federal energy legislation. Alternative 6 would also protect areas of important mineral, petroleum, and agricultural resource potential for future use by promoting long-term water conservation strategies which will ensure the quality and adequacy of surface and groundwater supplies for future growth of all of Kern County's industries. Alternative 6 would provide sufficient new development within an area large enough to meet generous projections of foreseeable need but in locations that will not impair the economic strength derived from residential developments, agriculture, rangeland, mineral resources, or diminish the other amenities that exist in Kern County. Moreover, Alternative 6 would create an effective regulatory and permitting process for oil and gas exploration and production that can be relied on by the County and other responsible agencies, and it would develop industry-wide best practices, performance standards and mitigation measures that ensure adequate protection of public health and safety and the environment.

Further analysis of Alternative 6 in response, in part, to comments on the Draft EIR indicates that this alternative is environmentally inferior to the Project in important respects and not legally, economically or technologically feasible. The reuse of treated produced water would, in many cases, significantly increase costs, and could result in increased chemical use, longer and more intensive surface activities, and the need for additional permitting processes to avoid adverse secondary environmental impacts. Moreover, in comments on the Draft EIR, DOGGR has expressed concerned that the reuse of produced water, as contemplated by this alternative, may contribute to land subsidence in the Project Area, as explained below.

Produced water is currently used for some oilfield activities, such as discharge for dust suppression, but increasing that use beyond existing levels would require additional permitting and approvals to avoid impacts to biological, water and other resources. While the oil and gas industry in Kern County has been working with the Regional Water Quality Control Boards to increase the treatment and use of produced water for dust suppression and other oilfield activities, there are regulatory hurdles to increasing use of produced water and it is uncertain whether and to what extent additional use of produced water will be permitted by the Boards. As such, a requirement to substitute produced water, as contemplated by Alternative 6, is currently legally infeasible.

While oil and gas operators may be able to utilize additional produced water for some oilfield activities – as contemplated by Mitigation Measures 4.17-2, 4.17-3 and 4.17 – not all oilfield activities are able to use produced water. For some oilfield activities, such as drilling and abandonment work, the use of fresh water is required to properly formulate the cement mixtures that are needed to safely drill and abandon wells. Using produced water for these activities would jeopardize operators' ability to comply with well specifications provided for in DOGGR regulations.

Certain enhanced oil recovery (EOR) operations, such as steam generation, can require higher-quality water supplies than are typically obtained from treated produced water in order to avoid

equipment corrosion or damage and potential chemical interactions. Use of produced water in these operations can also lead to increased need for equipment maintenance due to, for example, silica buildup or tube failures in boilers. Even when produced water can be used in EOR operations, water losses in the oil production cycle—due to losses on the surface, in the geological zones, or otherwise—typically necessitate the use of some fresh or brackish "make up" water from a surface or subsurface source. Depending on the nature of the operation, "make up" water often represents between 10 and 25 percent of the water used.

Additionally, the lack of infrastructure linking sources of produced water to the locations where water may be used, particularly in cases of new exploration, can result in increased truck trips and other more significant impacts associated with transporting produced water to operation sites. For example, pilot EOR projects typically cannot use recycled water due to the early stage of project development, which results in a lack of available recycled water. Furthermore, the treatment of water for reuse requires specialized equipment, consumes energy, and generates waste. In many cases, operators have also contracted with local water purveyors to utilize some supply of purchased water over a long-term contract; cancellation of such contracts would also create negative financial impacts for the region.

In addition, the use of produced water specifically for well stimulation treatments would significantly increase chemical use as well as costs. Chemicals used in fracture treatments impart viscosity for proppant transport and fracture geometry creation and improve post-treatment production results by minimizing polymer plugging and other phenomena detrimental to production. Using produced water instead of fresh water as a base fluid for fracture treatments would increase the chemical volumes needed to fulfill these functions. Produced water use for fracture treatments could require as much as a five-fold increase in buffering agents, and additional chelating agents, clay and scale inhibitors, and surfactants to prevent emulsions and reduce surface tension may also be needed to minimize production complications that would be caused by the use of produced water. While produced water could be pre-treated to require fewer chemicals during the fracture treatment itself, such pre-treatment conditioning would also involve more chemicals, equipment, or both, to obtain water sufficient for use in the fracture treatment. Because of these complications, a typical fracturing operation would become significantly more expensive, and often uneconomic.

In addition, for some types of well stimulation, such as matrix acid stimulation, it is technologically infeasible to utilize produced water. Typically, matrix acid stimulation employs hydrofluoric acid (HF acid), which can only be mixed with fresh water. If HF acid comes into contact with formation brine, insoluble precipitants form, limiting the effectiveness of the acid stimulation system by plugging pore throats in the reservoir pore network. Such plugging can completely counteract the effects of the stimulation treatment. The reduction in the effectiveness of the treatment would require more frequent treatments, larger treatments, or both, which would lead to a significant increase in use of chemicals, emissions and heavy vehicle traffic hauling hazardous chemicals.

Finally, in its comment letter on the Draft EIR, DOGGR expresses its concern that the treatment and reuse of produced water for agricultural or other uses may adversely affect the balance between production and injection that needs to be maintained to prevent subsidence in the Project Area. DOGGR is mandated to prevent subsidence. It is concerned that, if produced fluids are redirected to other beneficial uses, there may not be fluid available to put to use in subsidence abatement. The County concurs with DOGGR's view that alternative uses of produced water should not be at the expense of other considerations that equally important, such as subsidence management.

In sum, while operators are working to increase their use of produced water for oil and gas operations in Kern County, issues ranging from harms caused by chemical interactions, the lack of availability of produced water at certain sites, the lack of distribution infrastructure to deliver treated produced water to other beneficial uses (and the increased cost and environmental impact of constructing such infrastructure), as this alternative's adverse impact on regional subsidence management, demonstrates that Alternative 6 is infeasible.

Facts in Support of Finding: The EIR, including Section 6.0 of the Draft EIR, contains facts and analysis supporting the Finding, some of which are set forth here. Under Alternative 6, applicants would be required to treat an amount produced water that is currently being disposed of via underground injection wells which is equivalent to the amount of M&I water used in Applicant's operations. Although Alternative 6 would meet most of the Project objectives, it will have greater adverse environmentally effects that the Proposed project in some impact categories and is legally and economically infeasible. Therefore, the Board hereby rejects Alternative 6.

Environmentally Superior Alternative

The State CEQA Guidelines require the identification of an environmentally superior alternative to the Project. (CEQA Guidelines, Section 15126.6(e)(2).) An environmentally superior alternative is an alternative to the Project that would reduce and/or eliminate the significant adverse environmental impacts associated with the Project without creating other significant adverse environmental impacts and without substantially reducing and/or eliminating the environmental benefits attributable to the Project. Selection of an environmentally superior alternative is based on an evaluation of the extent to which the alternatives reduce or eliminate the significant impacts associated with the Project and on a comparison of the remaining environmental impacts of each alternative.

Finding: As compared to the Project, Alternative 1, the No Project Alternative, would have greater impacts than the Project in most categories. Alternative 2, the CUP Alternative, could slightly reduce the Project's aesthetic impacts, but would also generate greater in environmental effects than the Project is multiple impact categories. As compared to the Project, Alternative 3, the Reduced Ground Disturbance Alternative, would have less impacts to aesthetic resources, agricultural resources, cultural resources, and biological resources, but these environmental benefits would be offset by greater environmental impacts related to air quality, greenhouse gas emissions, noise, and traffic. Alternative 4, the No Hydraulic Fracturing Alternative, would have less water quality and hazards impacts than the Project, but would have greater impacts related to air quality and greenhouse gas emission than would the Project. As compared to the Project, Alternative 6, the Recycled Water Alternative, could have reduced water supply impacts, but may increase hydrology and water quality impacts related to the use of produced water for other beneficial uses., as compared to the Project. In addition, the construction of new water treatment facilities and the infrastructure required to distribute treated produced water to other beneficial uses would have greater impacts related to aesthetics, air quality, biological resources, cultural resources, greenhouse gas emissions, and noise, as compared to the Project.

The Board hereby finds that the environmentally superior alternative is Alternative 5, the Low-Emission EOR Technology Alternative. Compared to the Project, Alternative 5 would have less environmental effects related to criteria air pollutant and greenhouse gas emissions. Moreover, Alternative 5 would not result in any environmental impacts that are greater than those of the Project. However, for the reasons discussed above, Alternative 5 is neither technologically nor economically feasible

EXHIBIT B

Section VII – Findings Regarding Recirculation of the Draft EIR.

The Board of Supervisors adopts the following findings with respect to whether to recirculate the Draft EIR. Under section 15088.5 of the CEQA Guidelines, recirculation of an EIR is required when "significant new information" is added to the EIR after public notice is given of the availability of the Draft EIR for public review but prior to certification of the Final EIR. The term "information" can include changes in the project or environmental setting, as well as additional data or other information. New information added to an EIR is not "significant" unless the EIR is changed in a way that deprives the public of a meaningful opportunity to comment upon a substantial adverse environmental effect of the project or a feasible way to mitigate or avoid such an effect (including a feasible project alternative) that the project's proponents have declined to implement. "Significant new information" requiring recirculation includes, for example, a disclosure showing that:

(1) A new significant environmental impact would result from the project or from a new mitigation measure proposed to be implemented.

(2) A substantial increase in the severity of an environmental impact would result unless mitigation measures are adopted that reduce the impact to a level of insignificance.

(3) A feasible project alternative or mitigation measure considerably different from others previously analyzed would clearly lessen the significant environmental impacts of the project, but the project's proponents decline to adopt it.

(4) The Draft EIR was so fundamentally and basically inadequate and conclusory in nature that meaningful public review and comment were precluded.

(CEQA Guidelines, § 15088.5.)

Recirculation is not required where the new information added to the EIR merely clarifies or amplifies or makes insignificant modifications in an adequate EIR. The above standard is "not intend[ed] to promote endless rounds of revision and recirculation of EIRs." (*Laurel Heights Improvement Assn. v. Regents of the University of California* (1993) 6 Cal. 4th 1112, 1132.) "Recirculation was intended to be an exception, rather than the general rule." (*Ibid.*)

The Board of Supervisors recognizes that the Final EIR contains additions, clarifications, modifications, and other changes to the Draft EIR. Some comments on the Draft EIR either expressly or impliedly sought changes to proposed mitigation measures identified in the Draft EIR as well as additional mitigation measures. As explained in the Final EIR (Text Revisions), some of the suggestions were found to be appropriate and feasible and were adopted in the Final EIR. Where changes have been made to mitigation measures, these changes do not change the significance of any conclusions presented in the Draft EIR.

CEQA case law emphasizes that "'[t]he CEQA reporting process is not designed to freeze the ultimate proposal in the precise mold of the initial project; indeed, new and unforeseen insights may emerge during investigation, evoking revision of the original proposal.'" (*Kings County Farm Bureau v. City of Hanford* (1990) 221 Cal.App.3d 692, 736-737; see also *River Valley Preservation Project v. Metropolitan Transit Development Bd.* (1995) 37 Cal.App.4th 154, 168, fn. 11.) "CEQA compels an interactive process of assessment of environmental impacts and responsive project modification which must be genuine. It must be open to the public, premised upon a full and meaningful disclosure of the scope, purposes, and effect of a consistently described project, with

flexibility to respond to unforeseen insights that emerge from the process. In short, a project must be open for public discussion and subject to agency modification during the CEQA process." (*Concerned Citizens of Costa Mesa, Inc. v. 33rd Dist. Agricultural Assn.* (1986) 42 Cal.3d 929, 936 (internal citations omitted).) Here, the changes made to the Draft EIR in the Final EIR are exactly the kind of revisions that the case law recognizes as legitimate and proper.

The Board of Supervisors finds that none of the revisions to the Draft EIR made by, or discussion included in, the Final EIR involves "significant new information" triggering recirculation because the changes do not result in any new significant environmental effects, substantial increase in the severity of previously identified significant effects, or feasible project alternatives that would clearly lessen the environmental effects of the project. Similarly, no documentation produced by, or submitted to, the County and relied on by the County after publication of the Final EIR, including but not limited to the Late Comments described above, identifies any new significant effect, substantial increase in the severity of any environmental effect, or feasible project alternatives that would clearly lessen the environmental effects of the project. All project modifications were either environmentally benign or environmentally neutral and all additional documentation relied on by the County merely clarifies or amplifies conclusions in the EIR, and thus represent the kinds of common changes that occur and supplemental information that is received during the environmental review process as it works towards its conclusion. Under such circumstances, the Board of Supervisors hereby finds that recirculation of the EIR is not required.

CEQA Guidelines Section 15093 Statement of Overriding Considerations

EXHIBIT C

STATEMENT OF OVERRIDING CONSIDERATIONS

State CEQA Guidelines Section 15093

For

REVISIONS TO THE KERN COUNTY ZONING ORDINANCE – 2015(C) PROJECT

California Independent Petroleum Association
Independent Oil Producers Association
Western States Petroleum Association

Final Environmental Impact Report

(SCH# 2013081079)

Lead Agency: Kern County Planning and Community Development Department

The California Environmental Quality Act (CEQA) requires a public agency to balance the benefits of a proposed project against its significant unavoidable adverse impacts in determining whether to approve a project. The Amendment to Title 19.98 and related provisions of the Kern County Zoning Ordinance (the Project) will result in environmental effects, which, although mitigated to the extent feasible by the implementation of mitigation measures required for the Project, will remain significant and unavoidable, as discussed in the Final Environmental Impact Report (EIR) and CEQA Findings of Fact. These impacts are summarized below and constitute those impacts for which this Statement of Overriding Considerations is made.

1. Although implementation of mitigation measures would reduce the adverse visual changes experienced at individual key observation point locations, there are no mitigation measures that would preserve the existing character and quality of the Project Area and its surroundings. Project-related oil and gas activities would continue to produce visible changes to the existing environment and the resultant visual impact is considered significant and unavoidable. The Project has the potential to create a new source of substantial light or glare that would adversely affect day or nighttime views in the area. After implementation of MM 4.1-6, this impact would remain significant and unavoidable.

2. The oil and gas industry has a visible presence on the landscape of the San Joaquin Valley Floor and, the Project in combination with the implementation of other reasonably foreseeable oil and gas projects will continue to result in adverse visible changes within Kern County. Therefore, the Project's cumulative contribution after implementation of the recommended mitigation measures would remain cumulatively significant and unavoidable as a result of these changes in visual character and quality.

3. The Project would continue to generate odors. With implementation of MM 4.3-7, impacts would still be significant and unavoidable.

4. The construction and operational activities of oil and gas activities that would be authorized under the Project would result in an increase of criteria pollutants (oxides of nitrogen [NOx], volatile organic compounds [VOC], carbon monoxide [CO], particulate matter less than 10 microns and less than 2.5 microns in diameter [PM10 and PM2.5, respectively]) in excess of the recommended criteria pollutant significance threshold adopted by the SJVAPCD Board. Emission sources in Kern County contribute between 11% and 21% of criteria pollutant emissions in the San Joaquin Valley Air Basin. The Project would contribute between 2% and 14% of these pollutants in the San Joaquin Valley Air Basin or between 19% and 97% of Kern County's contribution. This analysis indicates that most sulfur dioxide (SO2) emissions in Kern County would originate from oil and gas activities and the majority of NOX emissions. Therefore, the proposed Project would have a cumulatively considerable contribution of criteria pollutant (NOX, PM10, PM2.5, CO and SO2) emissions to the Kern County portion of the SJVAB.

5. The geographic scope for cumulative impacts to agricultural and forest resources encompasses the whole of Kern County. The oil and gas exploration and production activities that would be authorized through implementation of the proposed Project along with projected population growth could result in significant and unavoidable cumulative impacts on farmland conversion.

6. Future oil and gas exploration and production activities related to the proposed Zoning Ordinance amendment could contribute to a significant cumulative impact on Project Area biological resources because future use and development of federal, state, and incorporated urban lands are not within the County's jurisdiction or control. Future land uses and development could affect biological resources in each of these jurisdictions and would be undertaken as independent actions with associated impacts, avoidance and minimization requirements, and mitigation, if required, under applicable federal, state, regional and local agency law. Impacts would remain significant and unavoidable with mitigation.

7. While implementation of MM 4.5-1 through MM 4.5-5 would reduce Project impacts to a less than significant level, cumulative impacts to cultural and paleontological resources within and beyond the boundaries of the Project Areas (including on lands within incorporated cities and on lands owned by other government agencies) would be significant. The County lacks the jurisdiction and control over these other jurisdictions and thus cannot enforce cultural and paleontological resource mitigation measures to reduce cumulative cultural and paleontological impacts to a less than significant level.

8. The Project has the potential to conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases. With the implementation of MM 4.7-5, the impact would remain significant and unavoidable.

9. The geographic scope for cumulative impacts for GHGs includes the area within 6 miles of the external Project Area boundary, and areas (*e.g.*, incorporated cities) within the Project Area. Climate change impacts are inherently global and cumulative, and not Project specific. While implementation of MM 4.7-1 through MM 4.7-3 and the 2014 Regional Transportation Plan mitigation measures would encourage reduction in GHG emissions at a regional level, they do not provide a mechanism that guarantees GHG emission reductions on a cumulative basis. The Project's cumulative contribution after implementation of the recommended mitigation measures would remain cumulatively significant and unavoidable as a result of the GHG emissions associated with the Project.

10. Although MM 4.17-2 through MM 4.17-4 would encourage the additional reuse of produced water, the extent to which oilfield operators can increase produced water reuse and decrease municipal and industrial demand is uncertain. As a result, potential impacts to groundwater levels and aquifer volumes would be significant and unavoidable with mitigation.

11. Project hydrology and water quality impacts could be cumulatively considerable impacts and thus considered significant. Implementation of MM 4.9-1 through MM 4.9-6 would reduce potential cumulative impacts to water quality, erosion risks, flooding and other hydrologic resources to less than significant with mitigation. Although MM 4.17-2 through MM 4.17-4 encourage the additional reuse of produced water, the extent to which oilfield operators can increase produced water reuse and decrease municipal and industrial demand is uncertain. As a result, cumulative impacts to groundwater would be significant and unavoidable. The County lacks jurisdiction and control over land conversions, and actions or approvals by other agencies that may cause cumulatively significant impacts to hydrology or water quality in the region; accordingly, this impact remains significant and unavoidable.

12. Implementation of MM 4.17-2 to MM 4.17-4 could reduce water supply impacts, but the allocation of water supplies and water demands, the complex laws affecting water rights, the many water districts that have legal jurisdiction over one or more sources of water in the Project Area, the varied technical feasibility of treating produced water, and the produced water reuse opportunities all present complex variables that fall outside the scope of the County's jurisdiction or control under CEQA. Although mitigation measures would reduce Project water supply impacts, such impacts would remain significant and unavoidable after mitigation.

13. The geographic scope for cumulative impacts to utilities and service systems includes the area within 6 miles of the external Project Area. Cumulative impacts would be significant and unavoidable with respect to water supply, even with implementation of MM 4.17-1 through MM 4.17-5.

EXHIBIT C

Findings:

The Board of Supervisors finds and determines in approving the Project that the Final EIR has considered the identified means of lessening or avoiding the Project's significant effects and that to the extent any significant direct or indirect environmental effects, including cumulative project impacts, remain unavoidable or not mitigated to below a level of significance after mitigation, such impacts are at an acceptable level in light of the social, legal, economic, environmental, technological and other project benefits discussed below, and such benefits override, outweigh, and make "acceptable" any such remaining environmental impacts of the project (CEQA Guidelines Section 15092(b)).

The following benefits and considerations outweigh such significant and unavoidable adverse environmental impacts. All of these benefits and considerations are based on the facts set forth in the Findings, the Final EIR, and the record of proceedings for the Project. Each of these benefits and considerations is a separate and independent basis that justifies approval of the Project, so that if a court were to set aside the determination that any particular benefit or consideration will occur and justifies project approval, this Board of Supervisors determines that it would stand by its determination that the remaining benefit(s) or consideration(s) is or are sufficient to warrant project approval.

Facts:

Each benefit set forth below constitutes an overriding consideration warranting approval of the Project, independent of the other benefits, and the Board of Supervisors determines that the adverse environmental impacts of the Project are "acceptable" if any one of these benefits will be realized.

The benefits set forth below are more fully outlined in the Final EIR and in the attached independent report entitled *The Economic Contribution of the Oil and Gas Industry in Kern County*.

The Project will provide benefits to Kern County as follows:

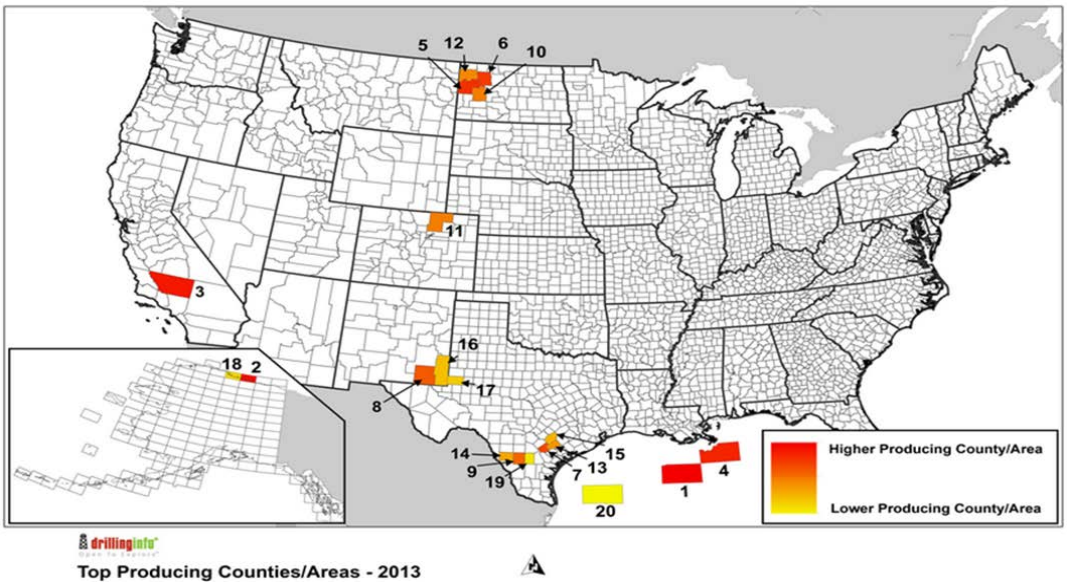
1. General Economic and Community Benefits of the Project to the County

Below are a few examples of how oil and gas companies contribute to the community and benefit the local economy. The Project, by spurring continued oil and gas activity in the County, ensures these benefits will persist.

EXHIBIT C

Kern is the leading oil-producing county in the nation, yielding 145 million bbl of oil and 132 billion CF of gas annually, according to 2014 DOGGR data:

Top 20 Oil Producing Counties/Regions

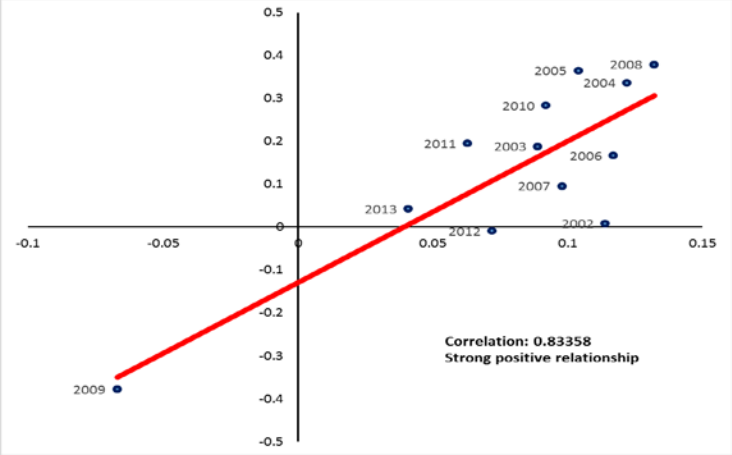


These amounts represent 71% of California's oil production and 10% of the total U.S. oil production. Kern County produces 66% of the state's total gas production. The oil and gas industry is the number-one industry in Kern County in terms of gross domestic product and tax contributions. The industry generates significant regional economic activity. Extraction, production, refining, and petroleum product manufacturing result in highly tradable products that are consumed domestically and are also exported. These efforts produce high revenues, create high wage jobs, and contribute significant tax revenue to all levels of government. The impact of the oil and gas industry is very far-reaching. The approximately $3.8 billion paid in 2013 to local oil and gas employees creates a significant "ripple effect" phenomenon in the local economy. Direct activity includes the materials purchased and the employees hired by the industry itself. Indirect effects are those which stem from the employment and business revenues motivated by the purchases made by the industry and any of its suppliers. Increased output generates new money in the community, resulting in increased spending on new homes, durable goods such as cars and appliances, plus additional spending on restaurants and entertainment options.

EXHIBIT C

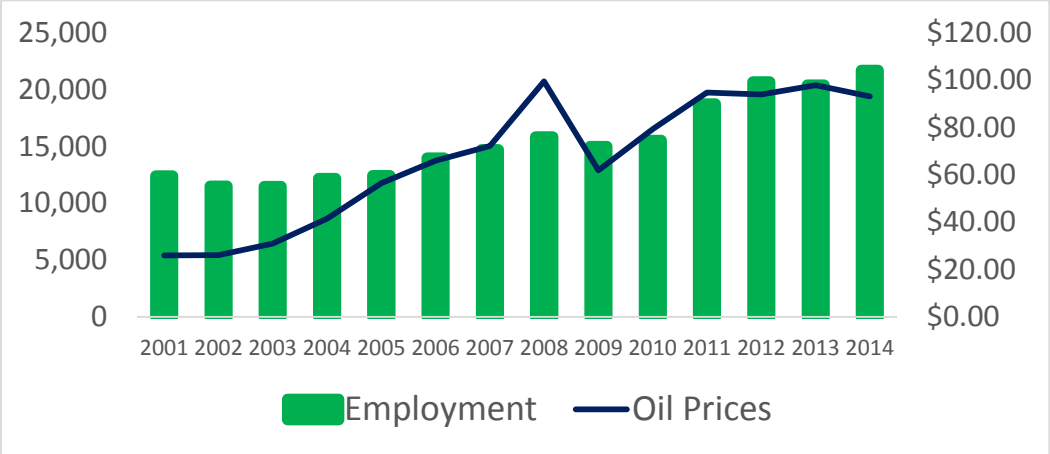
There is also a correlation between rising oil prices and regional economic growth. Seventy of GDP growth over the period 2001-2013 could be directly attributed to rising oil prices:

Change in Kern Oil Prices vs. Kern GDP Growth, 2001-2013



Local employment increases / decreases are associated with shifts in oil prices:

Kern County O&G Industry Employment vs. Kern Oil Prices, 2001-2014



Kern County's oil and gas industry also significantly impacts the community through its philanthropic activity and contributions to local education efforts. More than $5.5 million was donated to more than 130 local non-profits and educational programs in 2014. Kern County's two community colleges, California State University - Bakersfield, and K-12 funding are the most frequent beneficiaries of the financial support. Social service non-profits (*e.g.*, the Homeless Center / Alliance Against Family Violence) and health-related organizations (*e.g.*, the American Heart Association) also rank among the top recipients.

Several science, technology, engineering and math programs were started or sustained due to oil and gas industry funding at Taft College and Bakersfield College. California State University - Bakersfield opened its new Fabrication Lab in 2014 due, in large part, to oil and gas funding. These programs, plus others like a local welding program and a hands-on research program for high school students, help prepare students for a variety of careers. An industry-funded program at Taft College places students in

positions with local non-profit organizations; some are traditional students, and some are part of the Transition to Independent Living program which serves students with developmental / intellectual disabilities. The oil and gas funding provides wages for these students.

More than 15,000 oil and gas employee hours were volunteered for local programs in 2014, and the United Way states that oil and gas employees (plus oilfield service company employees) donated nearly $400,000 during the 2013/14 fiscal year.

2. Local Tax Revenues

As outlined in detail below, the oil and gas industry accounted for roughly 30% of the Kern County's $100 billion in property tax valuations in 2014. Taxes paid by the oil and gas industry play a major role in the support of local infrastructure, including schools, public safety, streets and roads, and parks. The Project will advance the continued production of oil and gas resources in Kern County, thereby securing an important local tax base.

Kern County Assessed Property Values, 2014

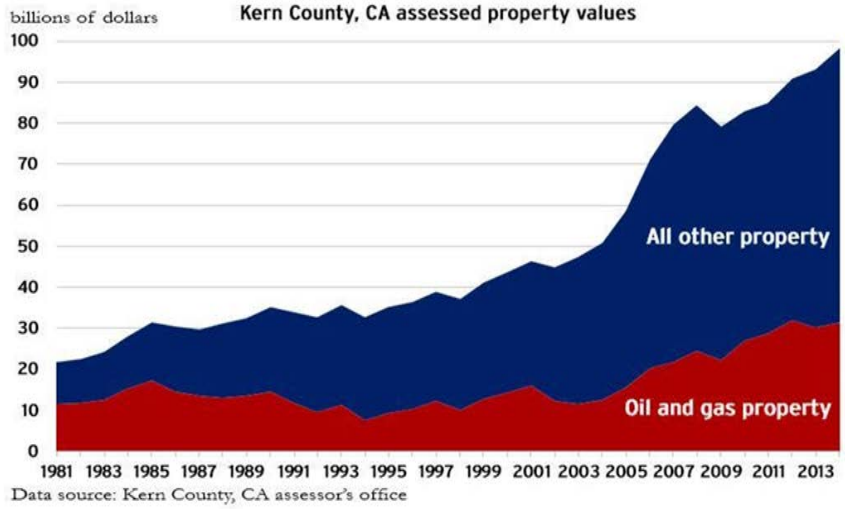


EXHIBIT C

Economic and Fiscal Contribution of the O&G Industry in Kern County, 2013

ECONOMIC CONTRIBUTION	Employment	Labor Income	Value Added	Output
Direct	23,857	$2,954.2	$4,891.6	$15,152.3
Indirect	7,073	$359.1	$517.7	$955.7
Induced	13,615	$508.0	$957.6	$1,580.8
TOTAL CONTRIBUTION	44,544	$3,821.4	$6,366.9	$17,689.1
Percent of Total CA Contribution	11.8%	11.6%	10.0%	9.2%
Percent of County Total	11.0%	17.0%	17.9%	27.0%

FISCAL CONTRIBUTION	State and Local ($ millions)	Federal ($ millions)	Total Taxes ($ millions)
Sales and excise taxes	$607.6	$164.7	$772.3
Property taxes	$285.6	-	$285.6
Personal income taxes	$117.2	$307.7	$424.9
Corporate profits taxes	$31.6	$125.2	$156.8
Social insurance taxes	$13.9	$387.9	$401.8
Other taxes	$63.6	$28.9	$92.5
Fees, fines and permits	$26.3	$7.3	$33.7
TOTAL TAX REVENUES	$1,145.7	$1,021.8	$2,167.5

Source: LAEDC

3. Local Job Creation

Kern County's oil and gas industry is a significant source of overall employment and also a provider of high-paying jobs that require moderate-to-high skill levels (*i.e.* jobs in technical and engineering occupations). The Project will ensure that these important opportunities continue to be available in Kern County.

Oil and gas-related employment accounts for approximately 1 in 7 jobs in the County. Almost all segments of the industry pay higher wages than the Kern County average. In some more specialized or highly-skilled areas, wages are triple the 2014 county average of $41,100. The oil and gas industry offers higher-than-average wages in Kern County. Oil and gas extraction, consisting of highly skilled engineering and geological jobs, was the highest-paying segment with an average annual salary of nearly $143,000. The average annual salary for the entire sector was $78,000, which is nearly double the "all industries" annual average of $41,100:

EXHIBIT C

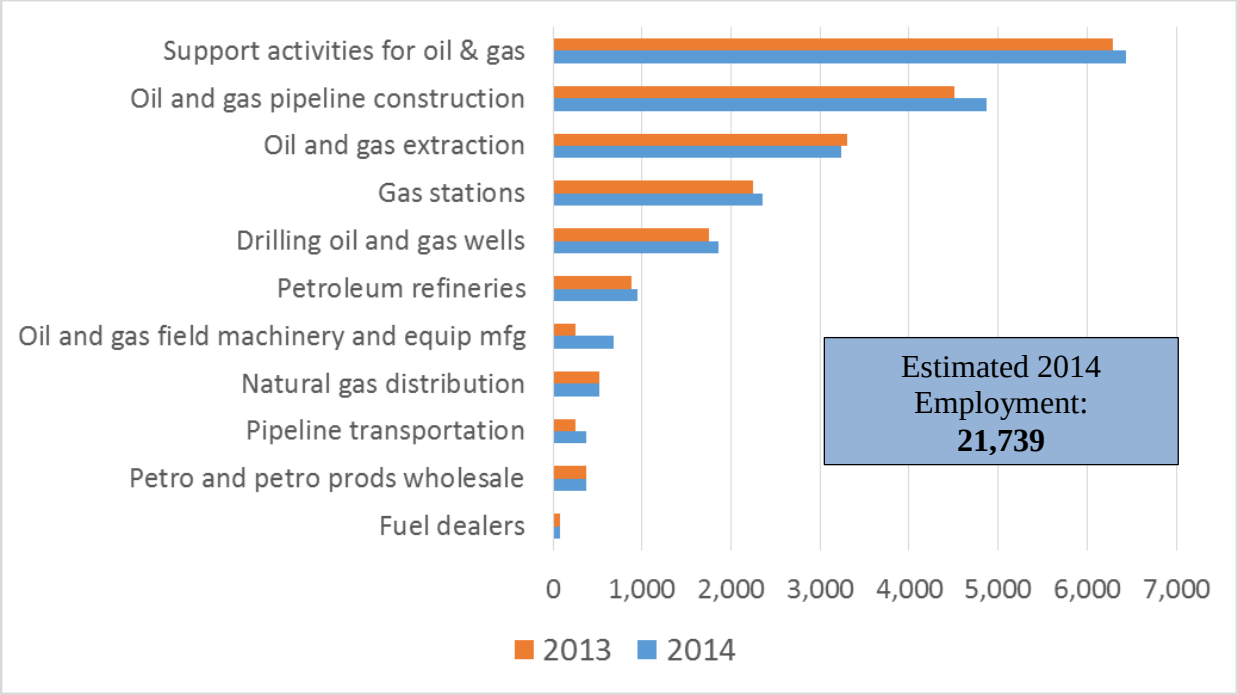
Kern County Oil and Gas Industry Annual Wages, 2014

NAICS Sub-Sector	Annual Establishments	Annual Average Direct Employment	Total Annual Wages	Annual Wages per Employee
NAICS 211 Oil and gas extraction	56	3,243	$462,232,109	$142,543
NAICS 213111 Drilling oil and gas wells	25	1,864	$149,487,414	$80,219
NAICS 213112 Support activities for oil and gas operations	112	6,432	$503,666,507	$78,307
NAICS 2212 Natural Gas Distribution	4	492	ND	ND
NAICS 23712 Oil and gas pipeline construction	20	4,876	$266,098,995	$54,574
NAICS 32411 Petroleum refineries	26	949	$119,544,267	$125,980
NAICS 333132 Oil and gas field machinery and equipment mfg	12	680	$43,305,000	$63,684
NAICS 4247 Petroleum merchant wholesalers	23	375	$25,277,050	$67,376
NAICS 447 Gasoline stations	199	2,349	$49,312,745	$20,992
NAICS 45431 Fuel dealers	11	74	$3,102,702	$42,071
NAICS 486 Pipeline transportation	13	376	$34,280,826	$91,152
Total, Oil and Gas Industry	**501**	**21,710**	**$1,656,307,615**	**$76,292**
Total, All Industries	16,267	254,620	$10,466,665,862	$41,107

Across the oil and gas industry in 2014, there were approximately 50,000 direct, indirect, and induced energy-related jobs in Kern County. Even using more conservative numbers (excluding indirect employment opportunities at gas stations, fuel dealers, petroleum wholesale, equipment manufacturing, pipeline construction and the like), the Final EIR estimates that 16,752 workers in Kern County were employed in the oil and gas extraction industry in 2012, with the state employment office measuring a steady increase of employment from 2002 to 2012 at which time growth stabilized around 12,000.

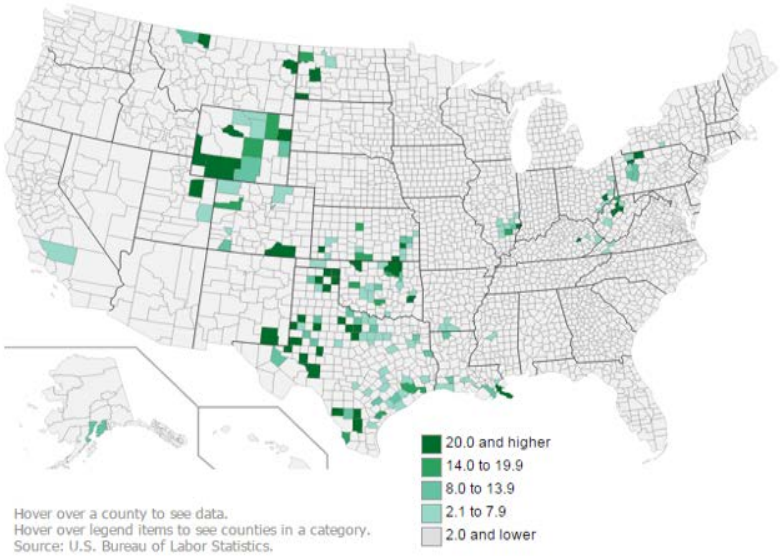
Oil and Gas Direct Employment in Kern County, 2013 vs. 2014

EXHIBIT C



Kern County is the only county in the western region with an above average concentration of oil and gas-related jobs. Kern County is heavily concentrated in oil and gas extraction as well as in oil and gas pipeline construction:

Counties with the Highest Relative Concentration of Employment (Location Quotient) in the Oil and Gas Extraction Industry, 2014



The oil and gas industry is one of the most impactful industry sectors on economic activity throughout the region:

Economic Impact of O&G Expenditures and Production

EXHIBIT C

Impact per $1 million of O&E Extraction Expenditures

Impacts	Jobs	Wages	Value Added	Gross Output
Direct	1.39	$134,740	$395,179	$1,000,000
Indirect	2.44	$174,982	$278,836	$562,231
Induced	2.00	$102,470	$183,927	$305,457
Total	5.83	$412,191	$857,942	$1,867,688

Impact per $1 million O&E Production

Direct	1.80	$133,757	$542,968	$1,000,000
Indirect	2.18	$157,460	$281,037	$469,367
Induced	1.83	$93,727	$168,233	$279,367
Total	5.80	$384,945	$992,238	$1,748,733

Source: Implan (CA Model)

Kern County recently ranked in the Top 10 in the U.S. in terms of upward mobility and in the overall concentration of science, technology, engineering and math jobs. A majority of Kern County's hi-tech employment is in the oil and gas industry (an estimated 65%), where most positions require technical degrees rather than advanced degrees. Bakersfield College is ranked 6th in the nation among similar schools with regard to which schools' graduates received "added value," based on their mid-career earnings levels. Bakersfield College students were predicted to earn $56,957 annually based on student characteristics and college type, but their mid-career salaries surpassed that prediction, coming in at an average of $67,200 (15% higher than predicted). California State University - Bakersfield also has graduates earning $75,400 at the mid-career point, 11.6% better than the predicted $66,599. The high performance of these colleges and their graduates was due to a combination of factors, including extensive science, technology, engineering and math curriculum in the schools, and the programs' proximity to energy employment centers.

4. Compliance with the Goals and Policies of the Kern County General Plan (General Plan) and Zoning Ordinance

The Project is consistent with various Goal and Policies of the Kern County General Plan, including:

- Protect areas of important mineral, petroleum, and agricultural resource potential for future use.
- Encourage safe and orderly energy development within the County, including research and demonstration projects, and to become actively involved in the decision and actions of other agencies as they affect energy development in Kern County.
- Support and work toward the elimination of disincentives for business and industry to prosper in Kern County, and create special economic development programs to encourage commerce and industry to locate in Kern County.
- Periodically review and update procedures for granting development approvals and permits and facilitate the processing of land use entitlements.

EXHIBIT C

The General Plan Energy Element notes the importance of the oil and gas industry to Kern County. The project will further the Goals and Objectives of the General Plan by enhancing the economic stability of the oil and gas industry in the County.

5. State, Regional and Federal Tax Revenue

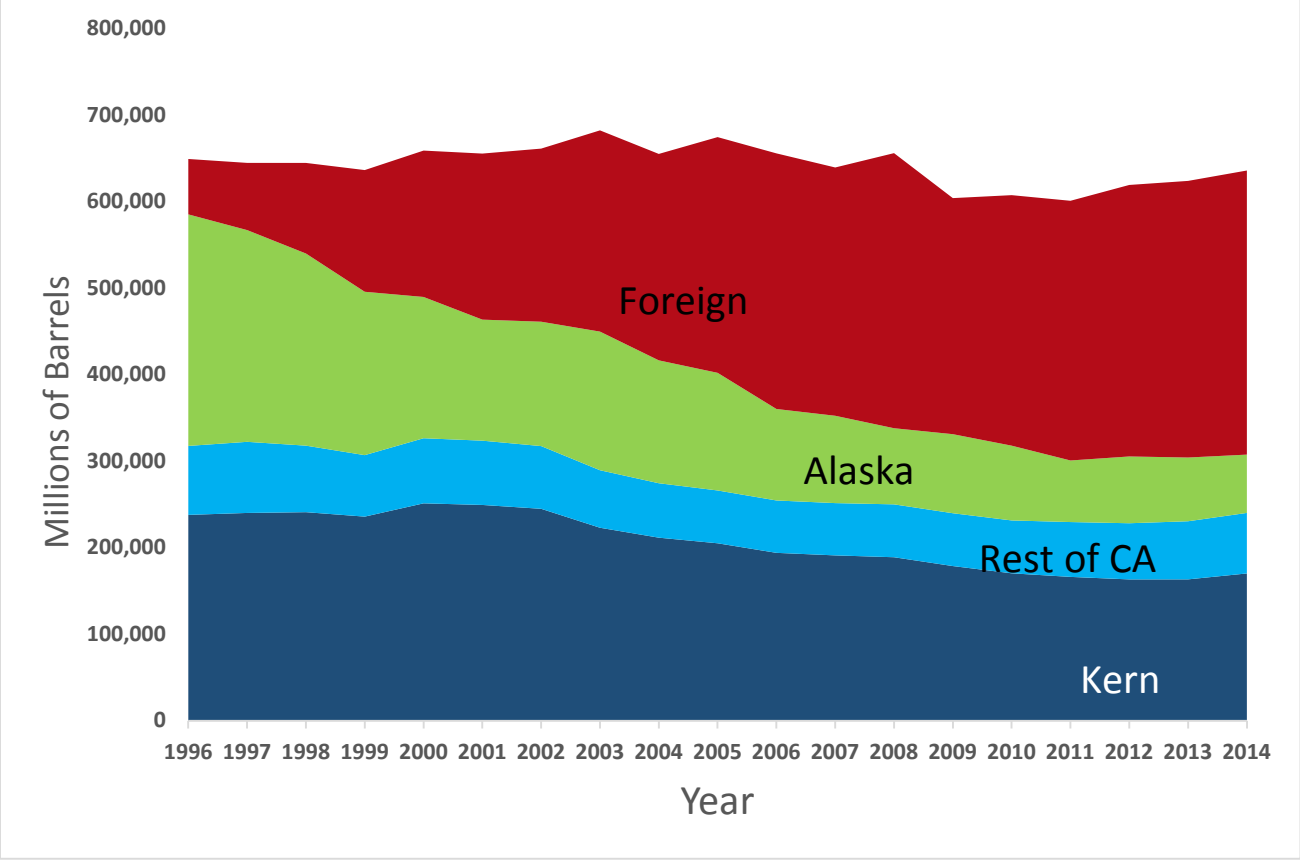
In 2013, economic activity associated with the oil and gas industry in Kern County is estimated to have generated $1.15 billion in state and local tax revenue, plus $1.02 billion in federal tax revenue. The Project will foster the continued production of oil and gas resources in Kern County, thereby securing an important source of tax revenue for California, the western region and the nation.

6. Energy Independence

The Project will allow California producers to better meet current demand and to keep pace with population growth. The Project will also help California to take steps toward strengthening its energy independence, which is financially and environmentally desirable.

California is currently a net importer of oil, producing only about 37 percent of the petroleum that it uses:

Sources Supplying Crude Oil to California Refineries



Dependence on foreign oil makes the state vulnerable to energy shortages and price spikes, and makes us dependent on foreign countries for energy. In addition, Californians then miss out on critical infrastructure funding since imported oil is exempt from California taxes (while high-paying oil and gas

jobs then go to foreign countries or other states). All oil and gas produced in California is used here and is produced under the most stringent regulations in the world.

CEQA Guidelines Section 15097 Mitigation Monitoring and Reporting Program

Exhibit C Mitigation Monitoring and Reporting Program for Kern County Gas & Oil Zoning Ordinance Environmental Impact Report

Impact		Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
4.1	**Aesthetics**					
4.1-3	**MM 4.1-1**	The Applicant shall use existing roads to access oil production areas, or shall construct new roads (or extend existing roads) to minimize the amount of disturbance without impeding existing surface use.	Delineated on Site Plan; During construction and operation	Kern County Planning and Community Development Department (KC PCDD)		
			Steps to Compliance: A. The Applicant shall implement measures related to use of access roads as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
	MM 4.1-2	All derricks, boilers, and other drilling equipment used to drill, repair, clean out, deepen or redrill any well with oil, gas, or other hydrocarbon shall be removed from the drill site within 90 days after completion of production tests or after abandonment of any well. Earthen sumps used in drilling shall be filled within 90 days after any well has been placed in production (unless such sumps are to be used within six months for the drilling of another well), and any sump used in productions shall be filled after its abandonment and restored to a uniform grade within ninety days.	During construction and operation	KC PCDD		
			Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
	MM 4.1-3	Sumps and ponds shall be permitted only to the extent authorized by the Central Valley Regional Water Quality Control Board (via waiver, Waste Discharge Requirements, or other form of authorized written documentation) and shall comply with all applicable legal requirements and mitigation measures for sumps serving as storage, percolation or evaporation ponds for produced water.	Delineated on Site Plan; During construction and operation	KC PCDD		
			Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
	MM 4.1-4	Except where located within agricultural land, new oil or gas tanks located within 200 feet of any sensitive receptor shall be partially screened from public view by shrubs, trees or solid screen fencing. Similarly, new pump sites (including multiple well pump sites) within 500 feet of any dwelling must be surrounded by a fence, at least 6 feet in height, constructed of dark-colored chain-link with wood or metal slates, dark green or brown fabric material, or other more visually restrictive fencing material. The height of all new pumping units shall not exceed 80 feet, and shall be painted in accordance with the Kern County Zoning Ordinance.	Delineated on Site Plan; During construction and operation	KC PCDD		
			Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
	MM 4.1-5	Project signage is limited to directional, warning, safety, security and identification signs in connection with oil, gas, or other hydrocarbon drilling and development operations in accordance with Chapter 19.84.135 of the Kern County Zoning Ordinance. For any signage necessary for wayfinding, safety, or security, the Applicant shall use the minimum necessary to adequately communicate the required information.	Delineated on Site Plan; During construction and operation	KC PCDD		
			Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures.			

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
		B. The Kern County Planning and Community Development Department will verify.			
4.1-4	**MM 4.1-6** Permanent nighttime lighting that will be installed for new facility operations will only be lighting required for safety or security. During operations when the lighting is in use, lighting for safety and security will be shielded and oriented downward, bare bulbs will be fully screened from view from sensitive viewing receptors such as residences, and on-demand lighting and/or timers will be used to minimize visual impacts of lighting. In doing so, the Applicant shall comply with the standards in the amended Chapter 19.81 – Outdoor Lighting "Dark Sky Ordinance."	Delineated on Site Plan; During operation	KC PCDD		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
4.1-5	Implement MM 4.1.1 through 4.1.6 Steps to Compliance				
Agricultural Resources					
4.2-1	**MM 4.2-1** For new oil and gas exploration and extraction activities that are: 1) on land designated Prime, Farmland of Statewide Importance or Unique Farmland; and 2) that have been actively farmed 5 years or more out of the last 10 years, agricultural land mitigation is required at a ratio of 1:1. The 1:1 ratio is applied to actual ground disturbance area for oil and gas activities (inclusive of temporary construction and permanent operational impact areas), but excludes non-farmed existing areas such as roads, and tank and maintenance areas, and lands for which agricultural mitigation has previously been provided at a 1:1 ratio. Prior to ground disturbing activity, the Applicant shall submit to the County written evidence of completion of one or more of the following measures to achieve this 1:1 mitigation ratio: a. Funding and/or purchasing agricultural conservation easements or similar instrument acceptable to the County (to be managed and maintained by an appropriate entity). b. Purchasing of credits for conservation of agricultural lands from an established agricultural farmland mitigation bank or an equivalent agricultural farmland preservation program managed by the County. c. Restoring agricultural lands to productive use through the removal of legacy oil and gas production equipment, including well abandonment and removal of surface equipment. d. Participating in any agricultural land mitigation program adopted by Kern County that provides equal or more effective mitigation than the measures listed above. Mitigation lands shall meet the definition of Prime Farmland, Farmland of Statewide Importance, and/or Unique Farmland, and be of similar or higher agricultural quality as the lands, as established by the California Department of Conservation. Completion of the selected measure or, with the Kern County Planning and Community Development Director's approval, a combination of measures, are to occur on qualifying land in Kern County. If qualifying lands cannot be found in Kern County, upon written application to the County, the mitigation lands may be located within the San Joaquin Valley (San Joaquin,	Delineated on Site Plan; Prior to Issuance of Oil and Gas Conformity or Minor Activity Review Permit	KC PCDD		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	Stanislaus, Merced, Fresno, Madera, Kings, Tulare, or Kern County) or outside the San Joaquin Valley with written evidence that the same or equivalent crops can be produced on the mitigation land. Mitigation consisting of removal of legacy equipment within active agricultural fields shall not require recordation of an agricultural conservation easement or conservation easement. Available mitigation funding shall be prioritized for acquisition of large blocks of agricultural land for preservation, and removal of legacy equipment, to minimize and mitigate fragmentation and edge impacts.				
4.2-5	**MM 4.2-2** To protect crops and structures adjacent to oil and gas activities on active agricultural lands, each Applicant/operator shall comply with the following mitigation measures set forth in other chapters of this Environmental Impact Report: a. Surface water runoff and drainage on the well pads shall be mitigated as described in mitigation measures for Hydrology and Water Quality. b. A Spill Prevention Countermeasure and Contingency Plan or Division of Oil Gas and Geothermal Resources Assembly Bill 1960 spill plan, as applicable, shall be prepared for the site and oil and chemical spills treated in accordance with the Division of Oil Gas and Geothermal Resources Senate Bill 4 Regulations for the site to protect adjacent farmland, as described in mitigation measures for Hazards. c. Speed limits for oil and gas trucks shall be posted on unpaved roads to reduce dust generation; in the absence of signage, speed limits shall be limited to 25 miles per hour (or an alternate, more stringent dust suppression standard as adopted by the San Joaquin Valley Air Pollution Control District), and Applicants shall attest that employees have been trained in the appropriate speed limits. d. Unpaved roads shall be watered or otherwise treated for dust suppression and control as described in Mitigation Measure for Air Quality, unless speeds are restricted to 15 mph. e. Vehicle tracking control shall be installed where unpaved roads intersect with public paved roads, to prevent tracking of mud, dust, and weed seeds off site, unless speeds are restricted to 15 mph. This shall consist of a 50-foot length of a 3 inch-thick layer of gravel one inch or larger in diameter (or an alternate, more stringent dust suppression technique as approved by the San Joaquin Valley Air Pollution Control District). f. Stormwater control shall be required at construction sites during well drilling, reworking, and/or decommissioning as described in mitigation measures for Hydrology. g. Hazardous materials shall be stored within secondary containment as described in mitigation measures for Hazards. h. Overhead electrical or communication lines shall be shown on the Site Plan, and shall be aligned to the greatest extent feasible with existing	Delineated on Site Plan; Prior to Issuance of Oil and Gas Conformity or Minor Activity Review Permit **Steps to Compliance:** A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.	KC PCDD		

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	access roads and the minimum distance between the access road and the well installation or other oil and gas facility, parallel to tree or row crops, described further in mitigation measures for Public Utilities. If the use of existing roads is not feasible, lines shall be routed to minimize surface disturbance and minimize the impacts to surface activity. i. Underground pipelines serving the Project shall be shown on the Site Plan with locations marked and recorded with USAA, and periodically inspected and maintained as described in mitigation measures for Hazards.				
4.2-7	Implement mitigation measure MM 4.2-1 and MM 4.2-2 Steps to Compliance.				
Air Quality					
4.3-1	**MM 4.3-1** Consistent with the requirements of the San Joaquin Valley Air Pollution Control District Regulation II-Permits, the Applicant shall obtain an Authority to Construct permit and a Permit to Operate for any facility or equipment requiring a permit from the San Joaquin Valley Air Pollution Control District, such as stationary sources required to obtain permits pursuant to District Rule 2010. All emissions increases from permitted equipment shall comply with District Rule 2201.	Prior to Issuance of Oil and Gas Conformity or Minor Activity Review Permit	San Joaquin Valley Air Pollution Control District; KC PCDD		
		Steps to Compliance: A. The Project Proponent shall submit an application to obtain Authority to Construct permit and Permit to Operate; B. The San Joaquin Valley Air Pollution Control District will review and approve prior to issuance of the permits.			
	MM 4.3-2 The Applicant shall develop and implement a Fugitive Dust Control Plan in compliance with San Joaquin Valley Air Pollution Control District fugitive dust suppression regulations to further reduce emissions, during construction, of particulate matter that is 10 microns or less and 2.5 microns or less in diameter. The Fugitive Dust Control Plan shall include: a. Name(s), address(es), and phone number(s) of person(s) responsible for the preparation, submission, and implementation of the plan. b. Description and location of operation(s). c. Listing of all fugitive dust emissions sources included in the operation. d. The following dust control measures shall be implemented: 1. All on-site unpaved roads shall be effectively stabilized using water or chemical soil stabilizers that can be determined to be as efficient as or more efficient for fugitive dust control than California Air Resources Board approved soil stabilizers, and that shall not increase any other environmental impacts including loss of vegetation. 2. All material excavated or graded will be sufficiently watered to prevent excessive dust. Watering will occur as needed with complete coverage of disturbed areas. The excavated soil piles will be watered as needed to limit dust emissions to less than 20% opacity or covered with temporary coverings. 3. Construction activities that occur on unpaved surfaces will be	Prior to Issuance of Oil and Gas Conformity or Minor Activity Review Permit	KC PCDD		
		Steps to Compliance: A. The Project Proponent shall prepare a Fugitive Dust Control Plan and submit it to the Kern County Planning and Community Development Department prior to construction. B. The Kern County Planning and Community Development Department will approve the Plan prior to issuing grading or building permits.			

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	discontinued during windy conditions when winds exceed 25 miles per hour and those activities cause visible dust plumes. Construction activities may continue if dust suppression measures are used to minimize visible dust plumes. 4. Track-out debris onto public paved roads shall not extend 50 feet or more from an active operation and track-out shall be removed or isolated such as behind a locked gate at the conclusion of each workday, except on agricultural fields where speeds are limited to 15 mph. 5. All hauling materials should be moist while being loaded into dump trucks. 6. All haul trucks hauling soil, sand, and other loose materials on public roads shall be covered (e.g., with tarps or other enclosures that would reduce fugitive dust emissions). 7. Soil loads should be kept below 6 inches or the freeboard of the truck. 8. Drop heights should be minimized when loaders dump soil into trucks. 9. Gate seals should be tight on dump trucks. 10. Traffic speeds on unpaved roads shall be limited to 25 miles per hour. 11. All grading activities shall be suspended when visible dust emissions exceed 20%. 12. Other fugitive dust control measures as necessary to comply with San Joaquin Valley Air Pollution Control District Rules and Regulations. 13. Disturbed areas should be minimized. 14. Disturbed areas should be re-vegetated as soon as possible after disturbance if area is no longer needed for oil and gas activities.				
	MM 4.3-3 All off-road construction diesel engines not registered under California Air Resources Board's Statewide Portable Equipment Registration Program, which have a rating of 50 horsepower or more, shall meet, at a minimum, the Tier 3 California Emission Standards for Off-road Compression-Ignition Engines as specified in California Code of Regulations, Title 13, section 2423(b)(1) unless that such engine is not available for a particular item of equipment. In the event a Tier 3 engine is not available for any off-road engine larger than 100 horsepower, that engine shall be equipped with retrofit controls that would provide nitrogen oxides and particulate matter emissions that are equivalent to Tier 3 engine. a. All equipment shall be turned off when not in use. Engine idling of all equipment shall be limited to five minutes, except under exemptions specified in California Code of Regulations Title 13 Section	Delineated on Site Plan; During construction and operation	KC PCDD		
		Steps to Compliance: A. The Project Proponent shall take the specified steps to reduce exhaust emissions during construction. B. The Kern County Building Inspection Department will verify in the field during construction.			

<table>
<tr><th>Impact</th><th>Mitigation Measure</th><th>Time Frame for Implementation</th><th>Responsible Monitoring Agency</th><th>Date</th><th>Initials</th></tr>
<tr><td></td><td>2449(d)(2)(A).
b. All equipment engines shall be maintained in good operating condition and in proper tune per manufacturers' specifications.</td><td colspan="4"></td></tr>
<tr><td></td><td>MM 4.3-4 To further reduce emissions of oxides of nitrogen from on-road heavy-duty diesel haul vehicles:
a. 2007 engines or pre-2007 engines shall comply with California Air Resources Board retrofit requirements set forth in California Code of Regulations Title 13 Section 2025.
b. All on-road construction vehicles, except those meeting the 2007/California Air Resources Board-certified Level 3 diesel emissions controls, shall meet all applicable California on-road emission standards and shall be licensed in the State of California. This does not apply to worker personal vehicles.
c. All on-road construction vehicles shall be properly tuned and maintained in accordance with the manufacturers' specifications.</td><td>Delineated on Site Plan; During construction and operation
Steps to Compliance:
A. The Project Proponent shall take the specified steps to reduce exhaust emissions during construction.
B. The Kern County Building Inspection Department will verify in the field during construction.</td><td>KC PCDD</td><td></td><td></td></tr>
<tr><td>4.3-2</td><td colspan="5">Implement MM 4.3-1 through MM 4.3-4 Steps to Compliance.</td></tr>
<tr><td>4.3-3</td><td>MM 4.3-5 Construction:
The Site Plan Application shall include a Site Vicinity Figure showing the location of any sensitive receptor(s) within 3,000 feet of the construction site (potential impact area) for the proposed new well or other ancillary facility or equipment (excluding pipelines).
a. If there are no sensitive receptors within this potential impact area, then no construction mitigation measures shall be required.
b. If there are sensitive receptors within the potential impact area, then additional information must be provided showing the setback from the closest edge of the well pad to the property line of the nearest sensitive receptor. The minimum distances shall be as follows:
<table>
<tr><th>Well Depth (Feet)</th><th>Minimum Setback Distance from Well Site to Adjacent Property Line of an Existing Sensitive Receptor (Feet)</th></tr>
<tr><td colspan="2">Western Subarea</td></tr>
<tr><td>10,000</td><td>367</td></tr>
<tr><td>5,000</td><td>116</td></tr>
<tr><td>2,000</td><td>NA</td></tr>
<tr><td colspan="2">Central Subarea</td></tr>
<tr><td>10,000</td><td>367</td></tr>
</table></td><td>Delineated on Site Plan; During construction and operation
Steps to Compliance:
A. Submit a Site Plan Application including a Site Vicinity Figure
B. Submit additional information as applicable
C. Implement risk minimization measures as applicable</td><td>KC PCDD</td><td></td><td></td></tr>
</table>

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials

5,000	116
2,000	NA
Eastern Subarea	
10,000	296
5,000	NA
2,000	NA

c. If the above setbacks cannot be met, and for existing wells, the Applicant shall provide a site-specific or other risk assessment to the San Joaquin Valley Air Pollution Control District, which may include implementation of one or more of the following risk minimization measures, or other such measures that are demonstrated by the Applicant to the San Joaquin Valley Air Pollution Control District, to achieve a level of risk less than the threshold risk level, and shall provide confirmation from the San Joaquin Valley Air Pollution Control District that the activity that is the subject of the application will not exceed the risk threshold:
   1. Placement of engines in the potential impact area away from the sensitive receptors.
   2. Utilize directional drilling to locate rig away further from the sensitive receptor(s).
   3. Use of late-model engines, low-emission diesel products, alternative cleaner fuels (e.g., natural gas or liquefied petroleum gas), engine retrofit technology, add-on devices such as diesel particulate filters or oxidation catalyst, and/or other options as such become available to reduce emissions from off-road and other equipment.
   4. Utilize electricity line power if available.
   5. Shutdown all equipment when not in use, and otherwise minimize engine idling by limiting idling to 15 minutes.
   6. Use of automatic rigs.
   7. Assist and pay to relocate residents to temporary lodging during well construction, drilling, and completion activities, if such residents voluntarily agree to such relocation.

	MM 4.3-6 Applicants shall include in their Worker Environmental Awareness Program information on how to recognize the symptoms of Valley Fever and to promptly report suspected symptoms of work-related Valley Fever to a supervisor. Workers exposed to fugitive dust shall be provided with the option of using a filter fitted over their nose and mouth, secured by a strap, including training for	Provide with Application Package; During construction and operation	KC PCDD		
		Steps to Compliance:			

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	appropriate mask practices as part of the Worker Environmental Awareness Training Program.	A. The Project Proponent shall include the required information into the Worker Environmental Awareness Program and the required options and training. B. The Kern County Planning and Community Development Department will verify in the field during construction and operation.			
4.3-4	**MM 4.3-7** Applicant shall submit an Odor Complaint Management Plan to the County prior to receiving its first Site Plan conformity review approval. The Plan shall include a designated contact for odor complaints, creation of a log for odor complaints, and protocol for handling odor complaints. The Odor log and report files shall be available for public review upon request.	Provide with Application Package; During construction and operation	KC PCDD		
		Steps to Compliance: A. Submit an Odor Complaint Management Plan to the Kern County Planning and Community Development Department; B. The Kern County Planning and Community Development Department will approve the Plan prior to issuing the oil and gas conformity review approval.			
4.3.5	Implement MM 4.3-1 through MM 4.3-4 Steps to Compliance.				
4.3-6	**MM 4.3-8** For criteria emissions, not required to be offset under a District rule as described in MM 4.3-1, and for Project vehicle and other mobile source emissions, the County will enter into an emission reduction agreement with the San Joaquin Valley Air Pollution Control District, pursuant to which the Applicant shall pay fees to fully offset Project emissions of oxides of nitrogen, reactive organic gases, and particulate matter of 10 microns or less in diameter (including as applicable mitigating for reactive organic gases by additive reductions of particulate matter of 10 microns or less in diameter) (collectively, "designated criteria emissions") to avoid any net increase in these pollutants. The air quality mitigation fee shall be paid to the County as part of the Site Plan review and approval process, and shall be used to reduce designated criteria emissions to fully offset Project emissions that are not otherwise required to be fully offset by District permit rules and regulations. As an alternative to paying the fee, an Applicant may reduce emissions for one or more designated criteria emissions through actual reductions in air emissions from other Applicant sources, as submitted to the County and validated by the District. This Project offset requirement alternative shall be enforced by the County and verified by San Joaquin Valley Air Pollution Control District, and must be approved in advance by the San Joaquin Valley Air Pollution Control District. If a voluntary emission reduction agreement is not executed by the County and San Joaquin Valley Air Pollution Control District, then each Applicant must mitigate for the full amount of designated criteria pollutants as verified by the San Joaquin Valley Air Pollution Control District, with evidence of such District-verified offsets presented as part of the Site Plan Conformity Review application documentation.	Provide with Application Package; During construction and operation	San Joaquin Valley Air Pollution Control District; KC PCDD		
		Steps to Compliance: A. The Project Proponent shall take the specified steps to reduce emissions according to the emission reduction agreement between the County and the San Joaquin Valley Air Pollution Control District. B. The San Joaquin Valley Air Pollution Control District will verify compliance with the offset requirements			

Impact		Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
		Examples of feasible air emission reduction activities that may be funded by air quality fees paid by Applicant or proposed and implemented by the Applicant under the emission reduction agreement include, but are not limited to, the following: a. Replacing or retrofitting diesel-powered stationary equipment such as motors on generators, pumps and wells with electric or other lower-emission engines that are not subject to Title V reductions. b. Replacing or retrofitting diesel-powered school, transit, municipal and other community mobile sources such as buses, car fleets, and maintenance equipment, with electric or other lower-emission engines. c. Reducing emissions from public infrastructure sources such as water and wastewater treatment and conveyance facilities, and reducing water-related emissions through water conservation and reclamation. d. Funding lower-emission equipment and processes for local businesses, schools, non-profit and religious institutions, hospitals, city and county facilities.				
Biological Resources						
4.4.1	**MM 4.4-1**	A qualified biologist shall conduct a biological reconnaissance survey in potential special-status species habitat to advise the project proponent of potential project impacts, potential surveying needs, and advise on the need for focused special status surveys. Early consultation with United States Fish and Wildlife Service and California Department of Fish and Wildlife would confirm the biologist's advice and/or inform project proponents of additional recommendations. Based on the information gathered from the biological reconnaissance survey and any informal consultation with United States Fish and Wildlife Service and California Department of Fish and Wildlife, focused/protocol surveys shall be conducted by a qualified or permitted biologist (whichever is applicable) well in advance of ground disturbing activities to determine the presence/absence of sensitive species protected by state and federal Endangered Species Acts and potential project impacts to those species. The survey shall be conducted in accordance with the most current standard protocol of United States Fish and Wildlife Service and California Department of Fish and Wildlife. The purpose of focused/protocol surveys is to confirm the presence or absence of any species listed as threatened or endangered under the federal Endangered Species Act, threatened or endangered under the California Endangered Species Act, rare or endangered in the California Native Plant Protection Act, or designated as fully-protected in the California Fish and Game Code (collectively, "Protected Species"), and to confirm the presence or absence of any other species considered "sensitive" under California Environmental Quality Act ("Sensitive Species"), and to identify and implement feasible avoidance and minimization measures for such species. The surveys shall be conducted in accordance with all currently-applicable presence and absence survey and/or species protocols established by	Provide with Application Package; During construction and operation	California Department of Fish and Wildlife; U.S. Fish and Wildlife Service; KC PCDD		
			Steps to Compliance: A. A qualified biologist must conduct the surveys. B. A survey plan must be submitted to USFWS and the CDFW for approval prior to surveys. C. Results from the surveys must be submitted to the USFWS, CDFW and Kern County Planning and Community Development Department. D. The survey report must contain avoidance and minimization measures if sensitive species were documented within the survey area.			

Impact	Mitigation Measure		Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
		the United States Fish and Wildlife Service and the California Department of Fish and Wildlife ("Species Protocols"). In the absence of any approved protocols, the survey shall extend for a minimum of 250 feet from all areas where any ground disturbance activities would occur, provided that permission to access has been obtained. As an alternative to individual pre-disturbance surveys for each application, and after consultation with and concurrence by the California Department of Fish and Wildlife and the United States Fish and Wildlife Service, multiple parcels or areas of oil and gas production lands (including lands which may have multiple surface or mineral ownership) may be consolidated for the purpose of more efficiently managing pre-disturbance surveys and determinations regarding the absence of protected species in areas of proposed new ground disturbance activities. A biological monitor shall be present during ground-disturbing activities in project locations that have special-status species habitat or are adjacent to potential special-status species habitat. Within 30 days before any ground disturbing activities in special-status species habitat, a qualified biologist shall conduct a pre-disturbance survey to record existing conditions of the site, determine if conditions have changed since the reconnaissance or focused/protocol surveys were conducted, and to determine where sensitive species avoidance buffers will be established.				
	MM 4.4-2	No incidental take of any species listed as threatened or endangered under the federal Endangered Species Act, threatened or endangered under the California Endangered Species Act, rare or endangered in the California Native Plant Protection Act, or designated as fully-protected in the California Fish and Game Code (Protected Species) may occur unless the incidental take is authorized by applicable state and federal wildlife agencies in the form of a permit or other written authorization, an approved state or federal conservation plan, or in accordance with an approved regional plan such as the Draft Valley Floor Habitat Conservation Plan and/or Natural Community Conservation Plan.	Provide with Application Package; During construction and operation	U.S. Fish and Wildlife Service; California Department of Fish and Wildlife; KC PCDD		
			Steps to Compliance: A. Obtain permits and/or written authorization from USFWS and CDFW. B. The Kern County Planning and Community Development Department will verify documents and consistence with the Draft Valley Floor Habitat Conservation Plan and/or Natural Community Conservation Plan.			
	MM 4.4-3	Protective buffers shall be used, where effective and feasible in the opinion and guidance of the qualified biologist, to avoid any unauthorized incidental take of Protected Species, and to minimize any incidental take of Sensitive Species, by separating the planned disturbance area from any locations where biological reconnaissance surveys, previously conducted focused/protocol surveys, or pre-disturbance surveys have detected the presence of Protected Species or Sensitive Species. Protective buffers shall be delineated using brightly colored stakes and/or flagging or similar materials and remain until construction activities are complete, at which time of completion the buffers must be removed. If special-status plant or animal species are found adjacent to the project during biological surveys, protective buffers shall be established around	Provide with Application Package; During construction and operation	U.S. Fish and Wildlife Service; California Department of Fish and Wildlife; KC PCDD		
			Steps to Compliance: A. The Applicant shall implement measures related to exclusion barriers or buffers as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials

active dens and/or burrows of special-status animal species, or populations of special-status plant species to avoid unauthorized take of protected species as listed in the table below. The protective buffer distance shall be increased if required to avoid unauthorized incidental take of any Protected Species as determined by a qualified biologist. Protective buffer distances and other avoidance measures that may be implemented to avoid impacts to Protected Species or Sensitive Species must be consistent with the United States Fish and Wildlife Service and/or the California Department of Fish and Wildlife, and shall be implemented and overseen by a qualified biologist.

Table: Disturbance Buffers for Sensitive Resources

Sensitive Resource	Buffer Zone from Disturbance (feet)
Potential San Joaquin kit fox den	50
Known San Joaquin kit fox den	100
Natal San Joaquin kit fox den	Contact California Department of Fish & Wildlife, United States Fish & Wildlife Service
Atypical San Joaquin kit fox den	50
Rodent burrows	50
Listed bird species active nests	0.5 mile
Burrowing owl burrow (breeding and non-breeding season)	Pursuant to California Department of Fish & Wildlife guidelines (see Table 4.4-85)
San Joaquin coachwhip, silvery legless lizard, coast horned lizard	30
American badger: Non-maternity dens Maternity dens	 50 200

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	Special-status plants 50				
	MM 4.4-4 Occupied burrowing owl burrows shall not be disturbed during the species nesting season (February 1 through August 31). The following distances shall be maintained between all disturbance areas and burrowing owl nesting sites (Table 4.4-85).	Provide with Application Package; During construction and operation	U.S. Fish and Wildlife Service; California Department of Fish and Wildlife; KC PCDD		

Table 4.4-85: Setback Distances for Burrowing Owl Nesting Sites by Level of Proposed Project Impacts

Location		
Nesting sites	Nesting sites	Nesting sites
Time of Year		
April 1–Aug 15	Aug 16–Oct 15	Oct 16–Mar 31
Project Impact Level		
Low		
656 feet (200 meters)	656 feet (200 meters)	164 feet (50 meters)
Medium		
1,640 feet (500 meters)	656 feet (200 meters)	328 feet (100 meters)
High		
1,640 feet (500 meters)	1,640 feet (500 meters)	1,640 feet (500 meters)

Burrowing owls present in proposed disturbance areas or within 500 feet or as specified under an approved Habitat Conservation Plan (as identified during pre-disturbance surveys) outside of the breeding season (between September 1 and January 31) may be moved away from the disturbance area using passive relocation techniques approved by the California Department of Fish and Wildlife. Passive relocation techniques in the California Department of Fish and Wildlife *Staff Report on Burrowing Owl Mitigation Guidelines* (California Department of Fish and Game 2012) include installing one-way doors in burrow entrances for 48 hours, to ensure the owl(s) have left the burrow, daily monitoring during the passive relocation period, and collapsing existing burrows to prevent reoccupation. A minimum of one or more weeks will be required to relocate the owl(s) and allow for acclimatization to alternate off-site burrows. Prior to burrow exclusion or eviction, a burrowing owl management

Steps to Compliance:

A. The Applicant shall implement measures related to nesting windows and buffer set-backs from nest sites as specified in the mitigation measures.

B. The Kern County Planning and Community Development Department will verify.

C. If passive relocation techniques are implement ted the Applicant must follow the *Staff Report on Burrowing Owl Mitigation Guidelines*.

D. If passive relocation or an alternative is implemented a burrowing owl management plan must be prepared and approved by the California Department of Fish and Wildlife.

E. The Kern County Planning and Community Development Department will verify.

Impact		Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
		plan shall be prepared and approved by the California Department of Fish and Wildlife. Destruction of burrows shall occur only pursuant to a management plan for the species approved by the California Department of Fish and Wildlife; burrow excavation shall be conducted by hand whenever possible. As an alternative to passive relocation, occupied burrows identified off-site within 500 feet of construction activities may be buffered with hay bales, fencing (e.g. sheltering in place), or as directed by the qualified biologist and the California Department of Fish and Wildlife, to avoid disturbance of burrows.				
	MM 4.4-5	The pre-disturbance surveys shall determine whether active bat maternity roosts are located in or within 250 feet of any disturbance area. All active bat maternity roosts shall be avoided during breeding periods, including postponing disturbance activities if required, and to the maximum extent feasible at other times. If an active bat maternity roost location cannot feasibly be avoided by disturbance, the United States Fish and Wildlife Service and California Department of Fish and Wildlife must be contacted to identify appropriate impact minimization measures prior to initiating any disturbance that would affect the roost.	Provide with Application Package; During construction and operation	U.S. Fish and Wildlife Service; California Department of Fish and Wildlife; KC PCDD		
			Steps to Compliance: A. Conduct pre-disturbance surveys as specified in the mitigation measure. B. If avoidance of bat maternity roosts is not feasibly contact the USFWS and CDFW for appropriate minimization measures and approval prior to ground disturbing activities. C. The Kern County Planning and Community Development Department will verify.			
	MM 4.4-6	Any potential San Joaquin kit fox dens (as defined in United States Fish and Wildlife Service 2011) detected during reconnaissance or focused/protocol surveys shall be reevaluated for species activity no more than 30 days prior to the commencement of ground disturbance. Potential kit fox dens shall be marked and a 50-foot avoidance buffer shall be delineated using brightly colored stakes and flagging or similar materials to prevent inadvertent damage to the potential den. If a potential den cannot feasibly be avoided, the den may be hand excavated in accordance with the United States Fish and Wildlife Service *Standardized Recommendations for Protection of the Endangered San Joaquin Kit Fox Prior to or During Ground Disturbance* (United States Fish and Wildlife Service 2011). If species activity is detected, the location shall be identified as a "known" kit fox den in accordance with the U.S. Fish and Wildlife Service species guidelines (United States Fish and Wildlife Service 2011). A minimum 100-foot buffer from any disturbance area shall be maintained for known dens and a minimum 500-foot buffer from any disturbance area shall be maintained for natal dens. No excavation of a known or natal den shall occur without prior authorization from the United States Fish and Wildlife Service and the California Department of Fish and Wildlife. For activities occurring on land covered under an approved federal and/or State	Provide with Application Package; During construction and operation	U.S. Fish and Wildlife Service; California Department of Fish and Wildlife; KC PCDD		
			Steps to Compliance: A. The Applicant shall conduct pre-disturbance surveys as specified in the mitigation measure. B. If den buffers or avoidance is not feasible; the Applicant must consult and obtain approval from the USFWS and CDFW. C. The Applicant shall implement the USFWS *Standardized Recommendation for Protection of the Endangered San Joaquin Kit Fox Prior to or During Ground Disturbance* if a den cannot feasibly be avoided. D. Implement Habitat Conservation Plan measures if activity occurs on covered lands. E. The Kern County Planning and Community Development Department will verify.			

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	incidental take authorization, the requirements set forth in those documents shall be implemented. Other standard measures to protect San Joaquin kit fox, including capping pipes, covering trenches, adding exit ramps to excavated areas, shall be implemented in accordance with MM 4.4-15.				
	MM 4.4-7 Occupied American badger dens detected during pre-disturbance surveys shall be flagged and ground-disturbing activities avoided within 50 feet of the den. Maternity dens shall be avoided and a minimum 200-foot buffer from disturbance shall be maintained during pup-rearing season (February 15 through July 1). Maternity dens must be avoided to the maximum extent feasible. If a maternity den cannot feasibly be avoided, the California Department of Fish and Wildlife must be contacted to identify appropriate impact minimization measures prior to initiating any disturbance that would affect the den, including potential passive relocation by excavation before or after the rearing season.	Provide with Application Package; Provide with Application Package; During construction and operation	U.S. Fish and Wildlife Service; California Department of Fish and Wildlife; KC PCDD		
		Steps to Compliance: A. The Applicant shall conduct pre-disturbance surveys as specified in the mitigation measure. B. Implement avoidance measures as specified in the mitigation measure. C. Consult with CDFW if maternity dens cannot be feasibly avoided. D. The Kern County Planning and Community Development Department will verify.			
	MM 4.4-8 Pre-disturbance surveys for all sites located above 2,000 feet in elevation, or within 200 feet down gradient from the 2,000-foot elevation contour line, shall specifically survey for any golden eagle nests located within 2 miles of the site. If golden eagle nests are detected by the surveys, the qualified biologist shall conduct a nest-specific viewshed analysis. No disturbance may occur within 0.25 mile, or within 0.5 mile of the viewshed of an active golden eagle nest unless otherwise authorized by State and federal wildlife agencies. The United States Fish and Wildlife Service and California Department of Fish and Wildlife must be notified prior to the commencement of any disturbance activities within 1 mile of an active golden eagle nest to avoid golden eagle take.	Provide with Application Package; During construction and operation	U.S. Fish and Wildlife Service; California Department of Fish and Wildlife; KC PCDD		
		Steps to Compliance: A. The Applicant shall conduct pre-disturbance surveys as specified in the mitigation measure. B. Implement avoidance measures as specified in the mitigation measure. C. Consult with USFWS and CDFW if nest buffers cannot be feasibly avoided. D. The Applicant must provide documentation in writing that consultation with USFWS and CDFW was conduct for project activities within a nest buffer. E. The Kern County Planning and Community Development Department will verify.			
	MM 4.4-9 All sites located above 2,000 feet in elevation, or within 200 feet down gradient from the 2,000-foot elevation contour line, shall implement the following measures to avoid and minimize potential adverse impacts to the California condor: a. The site shall, at all times, be maintained to avoid any trash, debris, food sources and microtrash, such as bottle caps, that could be ingested by or attract California condor. Trash shall be disposed in animal-proof	Provide with Application Package; During construction and operation	U.S. Fish and Wildlife Service; California Department of Fish and Wildlife; KC PCDD		
		Steps to Compliance:			

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	containers as required in BIO 4.4-19. b. The Worker Environmental Awareness Program described in BIO MM 4.4-18 shall include information about microtrash and potential effects to California condor, and shall prohibit the disposal of trash (and microtrash) on the site of oil and gas activities. c. If a condor is observed in a proposed construction site, all disturbance activities must immediately cease within 500 feet of the condor until the animal has moved from the site. If condor occurrence persists, the United States Fish and Wildlife Service and the California Department of Fish and Wildlife must be contacted to identify appropriate avoidance measures prior to initiating or resuming any disturbance activity. d. All condor observations shall be reported within 24 hours to the United States Fish and Wildlife Service and the California Department of Fish and Wildlife. e. All tanks, liquid storage facilities, and any open area containing water or other liquid materials, including drilling sumps, must be covered or otherwise shielded in a manner that prevents condor intrusion and potential entrapment. f. No overhead transmission lines may be used at the site without the prior approval of the United States Fish and Wildlife Service and the California Department of Fish and Wildlife.	A. A qualified biologist shall monitor all construction activities for impacts to the California condor. B. The Applicant shall train workers on the issue of trash, debris, food sources and microtrash – what it is, and its potential effects to the California condors. C. The Applicant shall implement the Workers Environmental Awareness Program prior to the start of construction. D. The Applicant shall report all California condor sightings during construction to the USFWS and CDFW, and Kern County Planning and Community Development Department. E. The Applicant shall provide written documentation the Kern County Planning and Community Development Department showing implementation of additional measures specified in the mitigation measures.			
MM 4.4-10	Pre-disturbance surveys for active bird nests must be conducted no more than 10 days prior to the commencement of disturbance. Surveys shall follow United States Fish and Wildlife and California Department of Fish and Wildlife guidance and/or protocols, as applicable. If no active nests or nesting birds are identified, then Project construction activities may proceed and no further mitigation measures for nesting birds are required. If active nest(s) are identified, the active nest(s) should be continuously surveyed for the first 24 hours after detection, to establish a behavioral baseline prior to any construction-related activities. Once construction commences, all nests shall be continuously monitored to detect any behavioral changes as a result of the Project (i.e., nest avoidance or abandonment). If behavioral changes are observed, the work causing that change should cease and the California Department of Fish and Wildlife and the United States Fish and Wildlife should be consulted for additional avoidance and minimization measures. If continuous monitoring of identified nests by a qualified wildlife biologist is not feasible, a minimum no-disturbance buffer of 250 feet will be established around active nests and a 500-foot no-disturbance buffer around the nests of raptors until the breeding season has ended, or until a qualified biologist has determined that the birds have fledged and are no longer reliant upon the nest or parental care for survival, and any adult birds are no longer occupying the nest. Variance from these no-disturbance buffers may be implemented a qualified biologist	Provide with Application Package; During construction and operation	U.S. Fish and Wildlife Service; California Department of Fish and Wildlife; KC PCDD		
		Steps to Compliance: A. The Applicant shall conduct pre-disturbance surveys as specified in the mitigation measure. B. Implement avoidance measures as specified in the mitigation measure C. A qualified biologist shall monitor all construction activities for impacts to active bird nests if nest buffers cannot be implemented. D. The Applicant shall provide written documentation and approval of variance from the no-disturbance areas to Kern County Planning and Community Development Department. E. The Kern County Planning and Community Development Department will verify prior to issuing NTP or permits.			

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	concludes that work within the buffer area would not cause nest avoidance or abandonment (e.g., when the disturbance area would be concealed from a nest site by topography). The California Department of Fish and Wildlife and the United States Fish and Wildlife must be notified in advance of implementing of a variance in the no-disturbance buffer.				
	MM 4.4-11 The following measures will be implemented to avoid take of blunt-nosed leopard lizard and to ensure protection of these animals during Project activities: a. Project activities will avoid all potential burrows that may be occupied by blunt-nosed leopard lizards. Suitable burrows within and adjacent to potential habitat for the species should be avoided by a minimum distance of 50-feet in all areas where ground-disturbing Project activities will occur. b. No more than one year prior to ground disturbing activities, focused surveys following current California Department of Fish and Wildlife and United States Fish and Wildlife protocols for detection of this species or other methods approved by both agencies shall be conducted in all potential blunt-nosed leopard lizard habitat within the work site and a 250-foot buffer area. If no individual blunt-nosed leopard lizards are observed during focused surveys, and surveys are current (e.g., completed in the same calendar year), then Project activities may proceed. c. If blunt-nosed leopard lizards are detected during focused surveys, a blunt-nosed leopard lizard avoidance plan shall be prepared for the Project that will result in avoidance of incidental take of this species unless take is separately authorized under a Natural Communities Conservation Plan and appropriate federal authorization is obtained. At a minimum, the blunt-nosed leopard lizard avoidance plan shall be provided to the California Department of Fish and Wildlife and the County, and shall contain the following elements: 1. A Worker Environmental Awareness Program shall be implemented for all construction personnel before construction begins (see MM 4.4-18). 2. During periods that are optimal for blunt-nosed leopard lizard activity (early spring through late fall), a qualified biologist will be present during all ground disturbing activities. The qualified biologist will check the Project site(s) and access route(s) daily during the blunt-nosed leopard lizard active season to determine presence or absence of lizards in or near the work areas. Monitoring by a qualified biologist is not required during periods of inactivity (the winter season). 3. All open trenches or excavations shall be covered at the end of each workday or protected with the use of exclusion fencing to	Provide with Application Package; During construction and operation **Steps to Compliance:** A. The Applicant shall conduct focused surveys as specified in the mitigation measure. B. Implement avoidance measures as specified in the mitigation measure C. A qualified biologist shall monitor all construction activities except during periods of inactivity (the winter season). D. The Applicant shall provide avoidance plan if blunt-nosed leopard lizards were detected during focused surveys. E. Implement the Worker Environmental Awareness Program. F. Implement additional measures as described in the mitigation measure. G. The Kern County Planning and Community Development Department will verify prior to issuing NTP or permits.	U.S. Fish and Wildlife Service; California Department of Fish and Wildlife; KC PCDD		

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	prevent wildlife entrapment. If an excavation is too large to cover, escape ramps shall be installed at an incline ratio of no greater than 2:1. All trenches and pipes shall be inspected for the presence of wildlife each day prior to the commencement of work. If blunt-nosed leopard lizards are observed at the work site during construction, construction shall cease within a 250-foot radius and the United States Fish and Wildlife Service and the California Department of Fish and Wildlife shall be consulted to determine what additional measures would be necessary to prevent take of this species. 4. Offsite locations where blunt-nosed leopard lizards have been observed or are likely to occur shall be clearly marked to prevent workers from driving off the road and to prevent inadvertent destruction of burrows. Barriers, such as exclusionary fencing may be installed. All construction equipment and construction personnel vehicles will be checked prior to moving to ensure no blunt-nosed leopard lizard are under equipment/vehicles. 5. A speed limit of 10 miles per hour shall be posted and observed within 0.25 miles of any reported blunt-nosed leopard lizard observation. 6. Construction activities shall avoid burrows that may be used by blunt-nosed leopard lizards. Any location of proposed construction activity with potential to collapse or block burrows (i.e., stockpile storage, parking areas, staging areas, trenches) will be identified prior to construction in the blunt-nosed leopard lizard avoidance plan and approved by the qualified biologist. The qualified biologist may allow certain activities in burrow areas if the combination of soil hardness and activity impact is not expected to collapse burrows and no blunt-nosed leopard lizards have been found during pre-Project surveys in the impact area. 7. All individual blunt-nosed leopard lizards observed above-ground will be avoided. Any individual blunt-nosed leopard lizard that may enter the Project site(s) would be allowed to leave unobstructed, and on its own accord. If a blunt-nosed leopard lizard is detected during biological monitoring or observed at any other point, the California Department of Fish and Wildlife and the United States Fish and Wildlife Service shall be notified to determine what additional measures would be necessary to prevent take of the species.				
	MM 4.4-12 The Applicant shall comply with the following: a. Plant surveys for Protected Species and Sensitive Species must be completed by a qualified biologist during the appropriate blooming periods for species identification and detection. Plant surveys shall be	Provide with Application Package; During construction and operation	U.S. Fish and Wildlife Service; California Department of Fish		

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	conducted in accordance with all applicable protocols established by the United States Fish and Wildlife Service and the California Department of Fish and Wildlife for particular plant species ("Plant Survey Protocol"), and shall extend 50 feet from areas where any new disturbance would occur unless a greater survey distance is specified in the Plant Survey Protocol. All detected plant populations of Protected Species and Sensitive Species shall be identified in the field during the surveys with temporary flags or other appropriate materials to avoid and minimize impacts to the plant populations from any disturbance activities.		and Wildlife; KC PCDD		
		Steps to Compliance: A. The Applicant shall conduct botanical surveys as specified in the mitigation measure. B. Implement avoidance measures as specified in the mitigation measure. C. Implement additional measures as identified in the mitigation measure. D. The Kern County Planning and Community Development Department will verify prior to issuing NTP or permits.			
	b. No incidental take or relocation of any plant listed under the federal Endangered Species Act, the California Endangered Species Act, or the California Native Plant Protection Act may occur unless the incidental take is authorized by the United States Fish and Wildlife Service and/or the California Department of Fish and Wildlife in a permit or other authorization, or in an approved Habitat Conservation Plan or Natural Communities Conservation Plan. If focused plan surveys detect the presence of any listed plant, the plant populations shall be buffered from disturbance activities by implementing applicable impact avoidance protocols established by the United States Fish and Wildlife Service and/or the California Department of Fish and Wildlife unless incidental take authority is obtained. Projects covered under incidental take authority shall conduct activities in accordance with the take authorization. The California Department of Fish and Wildlife may be contacted to determine the appropriate buffer required to prevent incidental take of a listed plant if avoidance protocols have not been established for the species. The qualified biologist shall confirm that all applicable listed plant buffers have been implemented prior to the commencement of any disturbance activity.	Prior to ground-disturbing activities	U.S. Fish and Wildlife Service; California Department of Fish and Wildlife; KC PCDD		
		Steps to Compliance: A. The Applicant shall implement measures related to rare plants as specified in the mitigation measure. B. The Kern County Planning and Community Development Department will verify.			
	c. If any non-listed sensitive plant species are identified that may be impacted by new ground disturbing activities, populations must be avoided by a 50-foot buffer.				
	MM 4.4-14 A Worker Environmental Awareness Program shall be developed and implemented for all personnel that could access the site prior to commencing any disturbance activities. The program shall consist of an on-site or center presentation that will describe the locations and types of sensitive plant, wildlife, and sensitive natural communities (collectively, "Biological Resources") on and near the site, an overview of the laws and regulations governing the protection of Biological Resources, the reasons for protecting the Biological Resources, the specific protection and avoidance measures that are applicable to the site, and the identity of designated points of contact should questions or issues arise, including the qualified biologist. The program shall provide training to recognize, avoid and report to applicable qualified biologists	Provide with Application Package; During construction and operation	KC PCDD		
		Steps to Compliance: A. The Applicant shall implement measures related to Worker Environmental Awareness Program as specified in the mitigation measure. B. The Kern County Planning and Community Development Department will verify.			

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	any Biological Resources on the site. a. The Worker Environmental Awareness Program shall emphasize the need to avoid contact with onsite wildlife, and avoid entry into areas where Biological Resources have been identified based on pre-disturbance field surveys and to implement the buffer avoidance or other protection measures established by the United States Fish and Wildlife Service shall be identified California Department of Fish and Wildlife or required by the Biological Resource mitigation measures. The training shall emphasize the importance of not feeding or domesticating wildlife and the need to avoid any trash, microtrash, or potential food disposal onsite except in animal-proof containers emptied daily to avoid attracting, or causing adverse impacts to special status wildlife. b. All onsite personnel must sign a statement verifying that they have completed the Worker Environmental Awareness Program, and that they understand and agree to implement the biological requirements for the worksite. If signed employee statements are not available, documentation may be provided by Worker Environmental Awareness Program training records, which shall be kept by the Applicant for a minimum of 5 years. Each Applicant shall maintain a list of all persons who have completed the training program, and shall provide the list to the County or to state and federal wildlife agency representatives upon request.				
	MM 4.4-15 The following additional measures shall be implemented to avoid and minimize potential significant adverse impacts to Protected and Sensitive Species: a. All vehicles shall observe a 20-mile-per-hour speed limit in all areas of disturbance and on unpaved roads unless otherwise posted. Off-road traffic outside of designated access routes is prohibited. Speed limit signs shall be posted in visible locations at the point of site entry and at regular intervals on all unpaved access roads. b. All disturbance activities, except emergency situations or drilling that may require continuous operations, shall only occur during daylight hours. Night time disturbance activity for drilling purposes shall use directed lighting, shielding methods, or reduced lumen intensity to avoid unnecessary visual disturbance to wildlife and to comply with applicable lighting mitigation measures. c. All food-related trash items and all forms of microtrash, such as wrappers, cans, bottles, bottle tops, and food scraps shall be disposed of in closed, animal proof containers and removed daily from the site. d. Excavations, spoils piles, access roadways, and parking and staging areas shall subject to dust control as set forth in the dust control mitigation measures. e. The use of herbicides for vegetation control shall be restricted to those	Provide with Application Package; During construction and operation	KC PCDD		
		Steps to Compliance: A. The Applicant shall implement measures related to protected and sensitive species as specified in the mitigation measure. B. The Kern County Planning and Community Development Department will verify.			

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	approved by the United States Fish and Wildlife Service and the California Department of Fish and Wildlife. No rodenticides shall be used on any site unless approved by the United States Fish and Wildlife Service, and the California Department of Fish and Wildlife, and shall observe label and other restrictions mandated by the United States Environmental Protection Agency, California Department of Food and Agriculture, and state and federal laws and regulations. For split estates, no herbicides for vegetation control may occur in Tier 2 areas without surface owner approval. f. No plants or wildlife shall be collected, taken, or removed from the site or any adjacent locations except as necessary for Project-related vegetation removal or wildlife relocation by a qualified biologist and subject to all applicable permits and authorizations. g. All open trenches or excavations shall be covered at the end of each workday to prevent wildlife entrapment. If an excavation is too large to cover, escape ramps shall be installed at an incline ratio of no greater than 2:1. All trenches and pipes shall be inspected for the presence of wildlife each day prior to the commencement of work. h. To enable San Joaquin kit foxes and other wildlife to pass through the Project site, any perimeter fencing shall include a 4- to 8-inch opening between the fence mesh and the ground or the fence shall be raised 4 inches above the ground except blunt-nosed leopard lizard exclusion fencing. The bottom of the fence fabric shall be knuckled (wrapped back to form a smooth edge) to protect wildlife. i. All vertical tubes used in Project construction and chain link fencing poles, shall be temporarily or permanently capped to avoid the entrapment and death of special-status wildlife and birds. All pipes 1.5 inches or greater in diameter stored overnight on a project location must have end caps or other physical barriers that prevent wildlife from entering the pipe. j. All dead or injured special status wildlife shall be left in place and reported to the United States Fish and Wildlife Service and the California Department of Fish and Wildlife within 48 hours of discovery for rescue or salvage. Discovery of state or federal listed species that are injured or dead shall also be managed consistent with regulatory requirements, including being reported immediately via telephone and within 24 hours in writing, and with a copy to Kern County Planning and Community Development. k. All drilling installations and operations will comply at all times with the applicable federal, State, county, and local law ordinances and regulations. l. All activity shall use previously disturbed areas to the maximum extent feasible to minimize the amount of new disturbance.				

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	m. All concrete and asphalt debris should be removed from the site for recycling or proper disposal. n. No vehicles or construction equipment shall be parked within a wetland or waterbody/dry wash. o. Tracked vehicles and other construction equipment must be washed or maintained to be weed-free prior to entering and working within areas of new disturbance. p. All washing of trucks, paint, equipment, or similar activities should occur in areas where runoff is fully contained for collection and offsite disposal. Wash water may not be discharged from the site and shall be located at least 100 feet from any water body, or sensitive Biological Resources. q. Locate all extra work areas (such as staging areas and additional spoil storage areas) at least 50 feet away from wetland boundaries or waterbody, except where the adjacent upland consists of cultivated or rotated cropland or other disturbed land. r. All areas that must be avoided as result of the pre-disturbance surveys, and areas where new disturbance will occur, shall be clearly delineated by fencing or staking and flagging and/or rope or cord. s. No firearms shall be allowed on any site. t. No pets shall be allowed on any site. u. No smoking may occur except in designated areas. v. If ground disturbance is intended to be temporary and does not occur on cultivated and crop lands, perform topsoil segregation during construction activities to preserve the seed bank for restoration efforts. Store the segregated topsoil separate from the subsoil and restore segregated topsoil to its original location.				
	MM 4.4-16 Ground disturbance shall be mitigated at a 1.0 to 1.0 ratio (one-acre of new disturbance shall require one-acre of mitigation) except in Tier 1 areas that contain existing disturbance of 70% or greater which shall be mitigated at a 1.0 to 0.5 ratio (one-acre of new disturbance shall require one-half acre of mitigation), for the land included in the Site Plan. This compensatory mitigation requirement does not apply to construction on ground for which compensatory mitigation has already been provided, or on ground that has been previously disturbed (e.g., cleared of vegetation for other oil and gas extraction uses, existing unpaved roads, and existing unvegetated well pads). Ground disturbance activities that are authorized by permits or other written authorizations approved by the United States Fish and Wildlife Service and the California Department of Fish and Wildlife, which include avoidance and compensatory mitigation acreage requirements, may be used to satisfy this County compensatory mitigation ratio. Compensatory mitigation shall be required for the actual acreage of ground disturbance documented during the site plan review and completion process. New disturbance mitigation may be	Provide with Application Package; During construction and operation	U.S. Fish and Wildlife Service; California Department of Fish and Wildlife; KC PCDD		
		Steps to Compliance: A. The Applicant shall implement measures related to mitigation ratios as specified in the mitigation measure. B. The Applicant shall implement the additional measures specified in the mitigation measure. C. The Kern County Planning and Community Development Department will verify.			

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	satisfied by one or a combination of the following measures: a. The recordation of a conservation easement or similar permanent, long-term conservation management agreement in a form acceptable to the County for land within the Project Area on land that has mitigation value. The easement lands may be owned by an Applicant or a third party under contract with an Applicant. Larger land areas may be placed under a conservation easement or similar agreement, and an Applicant may "draw down" the conserved land as needed to satisfy the acreage mitigation requirements for multiple site plan review conformity permits or other authorizations from the County for oil and gas activities. b. Acquisition of land preservation credits from a mitigation bank located within the Project Area which is owned by the County, on other lands approved by the County, or on lands approved for mitigation or conservation purposes by the United States Fish and Wildlife Service or the California Department of Fish and Wildlife. c. Removal of legacy oil and gas equipment, inclusive of compliance with applicable legal requirements (e.g., well plugging and abandonment requirements under state or federal regulations), restoration of the surface grade to be consistent with surrounding lands, complete a reseeding effort using native species, and notification of the site owner (if not the Applicant) of the completion of the removal and grading restoration work. d. Enhancement or restoration of existing habitat on lands already subject to a conservation easement or similar agreement, or which become subject to a conservation easement or similar agreement subsequent to the certification of this Environmental Impact Report, provided that such activities are covered in a permit or authorization, conservation plan, Habitat Conservation Plan, or Natural Community Conservation Plan, approved by the United States Fish and Wildlife Service or the California Department of Fish and Wildlife. e. Payment of a biological resources mitigation fee for the acquisition and management of mitigation lands, legacy equipment removal, and/or land enhancement already subject to conservation easements or a similar agreements under the terms of any biological resource mitigation program that is adopted by Kern County and approved by the United States Fish and Wildlife Service or the California Department of Fish and Wildlife. The County shall coordinate with the United States Fish and Wildlife Service or the California Department of Fish and Wildlife to identify priority conservation areas and potential conservation partners and funding sources to increase the efficiency and effectiveness of mitigation fee expenditures.				
4.4.2	Implement MM 4.4-1 through 4.4.18, described above, and dust control, spill and hazardous				

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	material avoidance and containment, and surface and subsurface water quality and hydrology mitigation measures.				
	MM 4.4-17 Pre-disturbance surveys shall be conducted by a qualified biologist during the appropriate periods for detecting Sensitive Natural Communities that could occur within the Project Area. The surveys shall be completed consistent with applicable protocols approved by the United States Fish and Wildlife Service and/or the California Department of Fish and Game, including the Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities (California Department of Fish and Wildlife 2009). The qualified person shall map and identify all sensitive natural communities, including riparian communities that occur in or within 100 feet of any new disturbance area. The site plan for the proposed activity shall identify waters, wetlands, resources subject to section 1600 of the CFGC, and other riparian habitats that occur in and within 100 feet of the disturbance area.	Provide with Application Package; During construction and operation	U.S. Fish and Wildlife Service; California Department of Fish and Wildlife; KC PCDD		
		Steps to Compliance: A. The Applicant shall conduct pre-disturbance surveys as specified in the mitigation measure. B. The Applicant shall submit a site plan identifying all waters, wetlands and other riparian habitats as specified in the mitigation measure. C. The Kern County Planning and Community Development Department will verify.			
	MM 4.4-18 No land disturbance activity in any Sensitive Natural Community that requires a state or federal permit, including state or federally regulated wetlands and waters, shall occur unless the activity is specifically authorized by the issuance of permits or approvals as required by state and federal law. This provision is not intended to restrict survey activities or restrict permit approvals for such disturbance activities. However, no new wells, tanks, sumps or ponds shall be constructed within 50 feet of federal or state waters or wetlands.	Provide with Application Package; During construction and operation	U.S. Fish and Wildlife Service; California Department of Fish and Wildlife; KC PCDD		
		Steps to Compliance: A. The Applicant shall implement the measures specified in the mitigation measure. B. The Kern County Planning and Community Development Department will verify.			
4.4-3	Implementation of the Biological Resources mitigation measures would ensure that oil and gas activities would not disturb state or federally regulated wetlands and waters unless the activity is specifically authorized by the issuance of permits or approvals as required by state and federal laws and that activities in the vicinity of wetlands and water bodies would not adversely disturb them. Other mitigation measures identified in this Environmental Impact Report would further reduce potential state or federally jurisdictional wetland and waters, including dust control, spill and hazardous material avoidance and containment, surface and subsurface water quality and hydrology, mitigation measures.				
4.4-4	Implementation of the Biological Resources mitigation measures would reduce wildlife movement impacts. Other mitigation measures identified in this Environmental Impact Report to further reduce wildlife movement impacts, include dust control, nighttime lighting, noise controls, spill and hazardous material avoidance and containment,, and surface and subsurface water quality and hydrology (including but not limited to Kern River and Poso Creek channels), measures.				
4.4-5	**MM 4.4-19** In the event that new disturbance would occur at a site within an oak woodland area as defined in Section 1.10.10 of the Kern County General Plan Land Use, Open Space and Conservation Element (10% or greater oak tree cover), the Applicant shall comply with the minimum 30% canopy retention standard in Section 1.10.10 KK (a). Impacts to oak trees in other locations, and in locations that meet the criteria for an oak woodland area, shall be avoided to the	Provide with Application Package; During construction and operation	KC PCDD		
		Steps to Compliance:			

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	maximum extent practicable, including modification of the disturbance area, if feasible, to avoid existing oak trees within a site.	A. The Applicant shall implement the measures specified in the mitigation measure. B. The Kern County Planning and Community Development Department will verify.			
4.4-6	**MM 4.4-20** Applicants shall fund through the Site Conformity Review administrative fee, preparation by Kern County of, an annual report describing the Project's ground disturbance acreage, and the acreage of compensatory mitigation lands, in each sub-area. For Covered Activities within areas included in proposed HCPs, the requirements of MM 4.4-1 – 4.4-19 may be superseded by specific requirements imposed by USFWS as part of approval of a federal incidental take permit (e.g., under Section 10 or Section 7 of the Endangered Species Act), or by CDFW as part of approval of a state incidental take permit (e.g., under the Fish and Game Code), provided that USFWS (in the case of a federal incidental take permit) or CDFW (in the case of a state incidental take permit) concludes in writing that such requirements provide equivalent or greater protection than MM 4.4-1 – 4.4-19 (or any subset thereof).	Provide with Application Package; During construction and operation **Steps to Compliance:** A. The Applicant shall implement the measures specified in the mitigation measure. B. The Kern County Planning and Community Development Department will verify.	KC PCDD		
4.4-7	Implement MM 4.4-1 through MM 4.4-20 Steps to Compliance.				
Cultural Resources					
4.5-1	**MM 4.5-1** Prior to initiating ground disturbance activities for an activity for which a conformity review is required, the Applicant shall: a. Provide an archival records search completed by a qualified archaeologist. This shall include an examination of the California Historical Resources Information Files at the Southern San Joaquin Valley Information Center, California State University, Bakersfield, and a search of the Native American Heritage Commission Sacred Lands Files, Sacramento. The Applicant may rely on a previously performed records search for subsequent ground disturbing activities. b. If an application location has been previously surveyed and no cultural resources have been recorded on it, no further cultural resources studies shall be required. c. Implement either: 1. If a site plan includes land that has experienced 100% previous ground-surface disturbance, or is within a section with 300 or more existing oil wells or other agricultural, industrial or urban uses, and the records searches indicate that no cultural or Native American resources are known on it, no further cultural resources studies shall be required. All other application locations shall be subject to intensive (100%) pedestrian ground-surface survey (Phase I survey/Class III inventory) by qualified archaeologists. The Applicant may rely on a previously performed ground surface	Provide with Application Package; During construction and operation **Steps to Compliance:** A. The Applicant shall implement the measures specified in the	KC PCDD; State Historic Preservation Office		

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	survey for subsequent ground disturbing activities; or 2. If an application location has not been previously surveyed based on the records search information, an intensive (100%) pedestrian ground-surface survey (Phase I survey/Class III inventory) by qualified archaeologists shall be required. d. All prehistoric/Native American archaeological sites, whether identified during the records searches or during the intensive survey, shall be demarcated by a qualified archaeologist, fenced by the Applicant, and preserved in place. e. Historical (Euro-American) archaeological sites that are potentially eligible for listing in the National Register of Historic Places shall be evaluated by a qualified archaeologist and must meet the requirements of the National Historic Preservation Act of 1966 in order to qualify. Qualifying sites, structures and equipment that are identified during the records search or field survey shall be fenced and preserved in open-space, removed and curated, or treated using appropriate data recovery procedures. f. Historical (Euro-American) archaeological site types relating to oil and gas activities that have been determined Not Significant/Unique shall require no archaeological study or treatment. g. All oil and gas industry employees conducting work in the area identified on the Conformity Site Plan shall complete Worker Environmental Awareness Program training including training dedicated to cultural resources protection.	mitigation measure. B. The Kern County Planning and Community Development Department will verify.			
4.5-2	Implement MM 4.5-1 Steps to Compliance.				
4.5-3	**MM 4.5-2** As part of any Worker Environmental Awareness Program training, all construction personnel shall be trained regarding the recognition of possible buried paleontological resources and protection of paleontological resources during construction, prior to the initiation of construction or ground-disturbing activities. Training shall inform construction personnel of the procedures to be followed upon the discovery of paleontological materials. All personnel shall be instructed that unauthorized collection or disturbance of fossils is unlawful.	Provide with Application Package; During construction and operation	KC PCDD		
		Steps to Compliance: A. The Applicant shall implement the Worker Environmental Awareness Program measures specified in the mitigation measure. B. The Kern County Planning and Community Development Department will verify.			
	MM 4.5-3 All permits for new wells that use Enhanced Oil Recovery or Well Stimulation methods shall pay a mitigation fee of $50 per well shall be paid to the Buena Vista Museum to fund the continued education and curation of paleontological resources and provide educational support regarding the paleontological history of the region.	Provide with Application Package; During construction and operation	KC PCDD; Buena Vista Museum		
		Steps to Compliance:			

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
		A. The Applicant shall pay a mitigation fee as specified in the mitigation measure. B. The Kern County Planning and Community Development Department will verify.			
4.5-4	**MM 4.5-4** In the event archaeological materials are encountered during the course of ground disturbance or construction, the Project operator/contractor shall cease any ground disturbing activities within 50 feet of the find. The qualified archaeologist shall evaluate the significance of the resources and recommend appropriate treatment measures. Per California Environmental Quality Act Guidelines Section 15126.4(b)(3), Project redesign and preservation in place shall be the preferred means to avoid impacts to significant historical resources. Consistent with California Environmental Quality Act Guidelines Section 15126.4(b)(3)(C), if it is demonstrated that resources cannot be avoided, the qualified archaeologist shall develop additional treatment measures in consultation with the County, which may include data recovery or other appropriate measures. The Planning and Community Development Department shall consult with appropriate Native American representatives in determining appropriate treatment for unearthed cultural resources if the resources are prehistoric or Native American in nature. If after consultation it is deemed appropriate, archaeological materials recovered during any investigation shall be curated at an accredited curation facility. The qualified archaeologist shall prepare a report documenting evaluation and/or additional treatment of the resource. A copy of the report shall be provided to the Kern County Planning and Community Development Department and to the Southern San Joaquin Valley Information Center. In the event archaeological materials are encountered, in Tier 2 the surface owner shall be notified immediately.	During construction	KC PCDD		
		Steps to Compliance: A. The Applicant shall submit an unanticipated discovery plan as part of the oil and gas conformity review. B. A qualified archaeologist shall evaluate any unanticipated site for significance and recommend appropriate treatment measures. C. The Applicant qualified archaeologist shall outline the recommendations for data recovery and curation in a report for submittal to the Kern County Planning and Community Development Department. D. The Kern County Planning and Community Development Department shall deem if or when ground disturbing activities within 50 feet of the find can or cannot resume.			
	MM 4.5-5 If human remains are uncovered during Project construction, the Applicant shall immediately halt all work, contact the Kern County Coroner to evaluate the remains, and follow the procedures and protocols set forth in Section 15064.4 (e)(1) of the California Environmental Quality Act Guidelines. The Kern County Planning and Community Development Department shall be notified concurrently. If the County Coroner determines that the remains are Native American, the Project proponent shall contact the Native American Heritage Commission, in accordance with Health and Safety Code Section 7050.5, subdivision (c), and Public Resources Code 5097.98 (as amended by Assembly Bill 2641). The Native American Heritage Commission shall designate a Most Likely Descendant for the remains per Public Resources Code 5097.98. Per Public Resources Code 5097.98, the applicant, in coordination with the landowner, shall ensure that the immediate vicinity, according to generally accepted cultural or archaeological standards or practices, where the Native American human remains are located, is not damaged or disturbed by further development activity until the discussion and conference with the Most Likely Descendant has occurred, if applicable, taking into account the possibility of	During construction	KC PCDD		
		Steps to Compliance: A. The Applicant shall implement the measures specified in the mitigation measure. B. The Kern County Planning and Community Development Department will verify.			

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	multiple human remains. If the remains are determined to be neither of forensic value to the Coroner, nor of Native American origin, provisions of the California Health and Safety Code (7100 et. seq.) directing identification of the next-of-kin will apply. In the event human remains are uncovered, in Tier 2 the surface owner shall be notified immediately.				
4.5-5	Implement MM 4.5-1 through MM 4.5-5 Steps to Compliance.				
Geology and Soils					
4.6-1	**MM 4.6-1** Prior to beginning a ground disturbance activity, the Applicant shall comply with the following regulations (as applicable) and confirm compliance in its Site Plan Conformity Review application documentation: a. Alquist-Priolo Earthquake Fault Zoning Act. b. California Building Code. c. Division of Oil Gas and Geothermal Resources regulations, as identified in the California Code of Regulations, Title 14, Division 2, Chapter 4, including regulations implementing Senate Bill 4 as applicable. If hydraulic fracturing is conducted for any well associated with the Site Plan Conformity Review, the Applicant shall comply with requirements to monitor the California Integrated Seismic Network for indication of an earthquake of magnitude 2.7 or greater for the period of 10 days following the end of hydraulic fracturing. The earthquake search radius shall be consistent with Division of Oil Gas and Geothermal Resources Senate Bill 4 regulations. The data will be submitted to Division of Oil Gas and Geothermal Resources for an evaluation of the risks and actions consistent with the Division of Oil Gas and Geothermal Resources Senate Bill 4 regulations. In approving a well stimulation treatment permit that would authorize, within an urban area (i.e., an area with a population over 50,000, as defined by the U.S. Census Bureau), the emplacement of well stimulation fluids into an oil or gas formation that has not been previously been subject to well stimulation activity, and/or into an oil or gas formation for which Division of Oil Gas and Geothermal Resources does not yet possess adequate information about formation fracture geometries, Division of Oil Gas and Geothermal Resources shall impose a permit condition requiring that the applicant conduct ground monitoring to characterize as-built fracture geometries prior to, during, and post-hydraulic fracturing. Monitoring shall also be conducted during fracturing treatments by use of applicable microseismic fracture mapping, tilt measurements, tracers, or proppant tagging. Copies of ground monitoring records shall be provided to the County and Division of Oil Gas and Geothermal Resources for review and approval within 30 days of well stimulation treatment. d. Additionally, the Applicant shall: 1. Avoid placement of structures intended for human occupancy on	Prior to ground disturbance activity **Steps to Compliance:** A. The Applicant shall implement the measures specified in the mitigation measure. B. The Kern County Building Department will verify during the oil and gas conformity review process.	KC PCDD		

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	or within 50 feet of any active faults designated and mapped pursuant to the Alquist-Priolo Earthquake Fault Zoning Act where the fault breaks the surface. 2. Have a professional geologist prepare a fault rupture hazard evaluation according to guidelines in California Geological Survey Special Publication 42, 2007 for new developments with structures that are intended for human occupancy. 3. All Class II injection wells shall be authorized, and shall comply with all applicable legal requirements, Underground Injection Control Program Approval permit conditions, and be operated according to the California Code of Regulations Title 14 requirements, as described in the mitigation measures for Hydrology and Water Quality. 4. Ensure that active fault trace placement restrictions are in place for all permanent tanks and storage reservoirs used to store, treat, or transport hazardous materials or materials that are considered pollutants to surface water and groundwater, located in an Earthquake Fault Zone. Ensure that all newly installed pipelines subject to 49 Code of Federal Regulations (CFR) Parts 192 and 195, are engineered and constructed in compliance with the requirements of the pipeline safety regulations, as set forth by the Pipeline Hazardous Materials Safety Administration (PHMSA). All other newly installed pipelines that transport gas or hazardous liquids are to be constructed, tested operated and maintained in accordance with good oilfield practice and applicable standards set forth and approved by the State Oil and Gas Supervisor. Ensure that all new pipelines designated for or water used for fire suppression are engineered and constructed in compliance with the requirements of California Building Code Chapter 9, Fire Protection Systems, and the California Fire Code to address potential fault rupture displacements.				
	MM 4.6-2 All structures designed for human occupancy shall be designed to withstand substantial ground shaking in accordance with applicable California Building Code seismic design standards and Kern County Building Code.	During construction and operation	Kern County Public Works Department		
		Steps to Compliance: A. The Applicant shall implement the measures specified in the mitigation measure. B. The Kern County Building Department will verify during the oil and gas conformity review process.			
4.6-2 4.6-3	Implement MM 4.6-1 and MM 4.6-2 Steps to Compliance.				
4.6-4	**MM 4.6-3** Operators shall avoid siting wells or accessory equipment and facilities on slopes greater than 30% unless the Applicant determines that mineral recovery is infeasible from a different location, and site-specific Professional Engineering certification is submitted concluding that the new equipment will not cause landslides.	Provide with Application Package; During construction and operation	Kern County Public Works Department		
		Steps to Compliance:			

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
		A. The Applicant shall implement the measures specified in the mitigation measure. B. The Kern County Building Department will verify during the oil and gas conformity review process.			
4.6-5	Implement stormwater mitigation measures, as described in Section 4.9, Hydrology and Water Quality.				
	Implement MM 4.6-3and MM 4.6-4, as described:				
4.6-6	**MM 4.6-4** The Applicant shall confirm compliance with, and shall implement, a Division of Oil Gas and Geothermal Resources approved re-pressuring plan as required by Division 3, Chapter 1, Article 5.5 of the Public Resources Code, commencing with Section 3315. In developed areas where subsidence is confirmed or suspected, subsidence monitoring shall be required using Synthetic Aperture Radar studies and/or other methods as approved by the Division of Oil Gas and Geothermal Resources to quantify and evaluate the potential effect on the area.	Provide with Application Package; During construction and operation	KC PCDD; Division of Oil Gas and Geothermal Resources		
		Steps to Compliance: A. The Applicant shall implement the measures specified in the mitigation measure. B. The Kern County Planning and Community Development Department will verify during the oil and gas conformity review process.			
4.6-7	**MM 4.6-5** The Applicant shall avoid building infrastructure on expansive soils unless the Applicant determines that mineral recovery is infeasible from a different location, and site-specific Professional Engineering certification is submitted concluding that the new equipment will not cause substantial risks to life or property.	Prior to issuing the NTP or permits	KC PCDD		
		Steps to Compliance: A. The Applicant shall implement the measures specified in the mitigation measure. B. The Kern County Planning and Community Development Department will verify during the oil and gas conformity review process.			
4.6-8	Implement MM 4.6-1 Steps to Compliance.				
4.6-9	Implement MM 4.6-1 through MM 4.6-5 Steps to Compliance.				
Green House Gas Emissions					
4.7-1	**MM 4.7-1** An Applicant covered by the Cap-and-Trade Program with permitted stationary sources shall comply with the Cap-and-Trade regulation (especially by surrendering greenhouse gas allowances or offset credits to satisfy their compliance obligation under the Program), and implement Best Performance Standards applicable to greenhouse gas reduction for Components at Light Crude Oil and Natural Gas Production, Natural Gas Processing Facilities, Petroleum Refineries, Gas Liquids Processing Facilities, and Chemical Plants (San Joaquin Valley Air Pollution Control District 2010), Thermally Enhanced Oil Recovery Wells (San Joaquin Valley Air Pollution Control District 2010a), Steam Generators (San Joaquin Valley Air Pollution Control District 2010b), and Front-line Organic Liquid Storage Tanks (San Joaquin Valley Air Pollution Control District 2011).	Provide with Application Package; During construction and operation	KC PCDD; San Joaquin Valley Air Pollution Control District		
		Steps to Compliance: C. The Applicant shall implement the measures specified in the mitigation measure. D. The Kern County Planning and Community Development Department will verify during the oil and gas conformity review process.			

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	MM 4.7-2 Each Applicant covered by the Cap-and-trade Program shall comply with applicable Cap and Trade regulations, and other applicable greenhouse gas emission control and reduction regulations as these may be adopted or amended over time, to reduce, avoid, mitigate and/or sequester greenhouse gas emissions from Project-related air emissions.	Provide with Application Package; During construction and operation	KC PCDD; San Joaquin Valley Air Pollution Control District		
		Steps to Compliance: E. The Applicant shall implement the measures specified in the mitigation measure. F. The Kern County Planning and Community Development Department will verify during the oil and gas conformity review process.			
	MM 4.7-3 Each Applicant shall implement methods to recover for reuse or destroy methane existing in associated gas and casinghead gas, as follows: a. Recover all associated gas produced from the reservoir via new wells, regardless of the well type, except for gas produced from wildcat and delineation wells or as a result of start-up, shutdown and maintenance activities (whether planned or unplanned), system failures, and emergencies in accordance with San Joaquin Valley Air Pollution Control District regulations (Rule 4401 and 4409), as this may be amended over time. b. Compliance with the expected California Air Resources Board methane regulation.	Provide with Application Package; During construction and operation	KC PCDD; San Joaquin Valley Air Pollution Control District		
		Steps to Compliance: G. The Applicant shall implement the measures specified in the mitigation measure. H. The Kern County Planning and Community Development Department will verify during the oil and gas conformity review process.			
	MM 4.7-4 Each Applicant shall offset all greenhouse gas emissions not covered by the Cap-and-Trade program or other mandatory greenhouse gas emission reduction measures through Applicant reductions of greenhouse gas emissions as verified by Kern County, through acquisition of offset credits from the California Air Pollution Control Officers Association Exchange Register or other third party greenhouse gas reductions, with consultation to the validity of methodology for calculating reductions verified by the San Joaquin Valley Air Pollution Control District and accepted by Kern County, or through inclusion in an Emission Reduction Agreement, to offset Project-related greenhouse gas emissions that are not included in the Cap and Trade program to assure that no net increase in greenhouse gas emissions from the Project.	Provide with Application Package; During construction and operation	KC PCDD; San Joaquin Valley Air Pollution Control District		
		Steps to Compliance: I. The Applicant shall implement the measures specified in the mitigation measure. J. The Kern County Planning and Community Development Department will verify during the oil and gas conformity review process.			
4.7-2	Implement MM 4.7-3 Steps to Compliance.				
4.7-3	Implement MM 4.7-4 Steps to Compliance.				
Hazards and Hazardous Materials					
4.8-1	**MM 4.8-1** The Applicant shall provide a comprehensive Worker Environmental Awareness Program to the County with its first Site Plan Conformity Review permit application in each calendar year. The program shall include all training requirements identified in Applicant Best Management Practices and mitigation measures, and include training for all field personnel (including Applicant employees, agents and contractors). The Worker Environmental Awareness	Provide with Application Package; During construction and operation	KC PCDD		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the			

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	Program shall include protocols and training for responding to and handling of hazardous materials and hazardous waste management, and emergency preparedness, release reporting, and response requirements. In Tier 2, the Worker Environmental Awareness Program shall be provided to the surface owner at the time of the application pathway process so the surface owner may educate employees as well.	mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
	MM 4.8-2 The Applicant shall arrange for transportation, storage and disposal of all hazardous materials in compliance with the Hazardous Materials Transportation Act. Drivers transporting hazardous materials or wastes should follow the measures recommended by the Federal Motor Carrier Safety Administration for avoiding roll-over accidents. To avoid roll-over accidents involving cargo tank trucks: a. Avoid sudden movements that may lead to roll-overs. b. Control your load in turns and on straight roadways. c. Identify high risk areas on roads. d. Remain alert and attentive behind the wheel. e. Control speed and maintain proper "speed cushions."	Provide with Application Package; During construction and operation construction **Steps to Compliance:** A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.	KC PCDD; Environmental Protection Agency; California Department of Transportation		
	MM 4.8-3 The Applicant shall implement the following practices: a. Construction activities shall be conducted to allow for easy clean-up of spills. Construction crews shall have sufficient tools, supplies, and absorbent and barrier materials to contain and recover spilled materials. b. Fuels and lubricants shall be stored only at designated staging areas. Fuel and lubricant tanks shall have appropriate secondary spill containment (e.g., curbs). Compliance with laws and regulations is required, including compliance with hazardous materials and hazardous waste storage laws, as applicable. c. Storage of fuel and lubricants in the staging area shall be at least 100 feet away from the edge of water bodies. Refueling and lubrication of equipment shall be restricted to upland areas at least 100 feet away from stream channels and wetlands. d. Any fuel truck shall carry an oil spill response kit and spill response equipment at all times. e. Applicants shall be required to perform all routine equipment maintenance at the well pad or other suitable locations (i.e., maintenance yards), and promptly collect and lawfully dispose of wastes in compliance with existing regulatory requirements. f. Berms and/or dikes (secondary containment) shall be constructed around the permanent above-ground bulk tanks and the foundations shall be installed with a passive leak detection system, so that potential spill materials shall be contained and collected in specified areas isolated from any water bodies. Tanks shall not be placed in areas subject to periodic flooding or washout. Compliance with laws and	Provide with Application Package; During construction and operation **Steps to Compliance:** A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.	KC PCDD		

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	regulations is required, including compliance with hazardous materials and hazardous waste storage laws as applicable, including for secondary containment, such as Division of Oil Gas and Geothermal Resources regulation (Title 14, C,C.R. § 1773.1), which requires secondary containment in "an engineered impoundment such as a catch basin, which can include natural topographic features, that is designed to capture fluid released from a production facility." g. A sufficient supply of sorbent and barrier materials shall be maintained on construction sites consistent with the type and level of construction activities. Sorbent and barrier materials shall also be utilized to contain runoff from contaminated areas where appropriate. 1. Shovels and drums shall be stored at each well pad or be readily available. If small quantities of soil become contaminated, hand tools such as shovels or other appropriate tools, shall be used to collect the soil and the material shall be stored in storage drums. Large quantities of contaminated soil may be bio-remediated on-site or at a designated remediation facility, subject to government approval, or collected utilizing heavy equipment, and stored in drums or other suitable containers prior to disposal. Should contamination occur adjacent to staging areas as a result of runoff, shovels and/or heavy equipment shall be utilized to collect the contaminated material. Contaminated soil shall be disposed of in accordance with state and federal regulations. 2. Above-ground tanks, valves and other equipment shall be visually inspected monthly and when the tank is refilled. Inspection records shall be maintained. Applicants shall periodically check tanks for leaks or spills. 3. Drain valves on all tanks shall be locked to prevent accidental or unauthorized discharges from the tank. 4. Equipment maintenance shall be conducted in staging areas or other suitable locations (i.e., maintenance shops or yards) to the extent practical. 5. The Applicant shall maintain equipment in operating condition to reduce the likelihood of fuel or oil line breaks and leakage. Any vehicles with chronic or continuous leaks shall be removed from the site and repaired before being returned to operation. h. Applicants are encouraged, but not required, to use an alternate to silica sand as a proppant, after Division of Oil Gas and Geothermal Resources has determined that such an alternative does not introduce new hazards.				

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	MM 4.8-4 The Applicant shall implement the following measures to prevent, repair, and remediate accidental leaks and spills from oil and gas operations. a. The Applicant shall identify gas, oil and produced water pipelines to be used for each new or reworked well site in its Site Plan, and shall show the location of any sensitive receptor located within 300 feet of any such pipeline. For any pipeline located within 300 feet of a sensitive receptor, the Applicant shall present evidence that each such pipeline has been integrity tested using pressure testing or other accepted test methods by a qualified professional within a two-year period prior to submittal of the Site Plan, and shall provide a copy of the test result to the County. For all waste gas lines less than or equal to 4 inches in diameter, a Pipeline Management Plan shall be developed and implemented in accordance with Division of Oil Gas and Geothermal Resources regulations Title 14, Division 2, Chapter 4, Section 1774.2. The Pipeline Management Plan shall include: 1. A listing of information on each pipeline including, but not limited to: i. Pipeline type. ii. Grade. iii. Installation date of pipeline. iv. Design and operational pressure. v. Any leak, repair, inspection and testing history. 2. A description of the testing method and schedule for all pipelines. b. The Applicant shall notify the Kern County Environmental Health Division, Certified Union Program Agency (CUPA), surface landowner, and sensitive receptors located within 300 feet, of any hazardous materials/waste release immediately upon discovery, and to other applicable agencies as required by other laws. The Applicant shall immediately contain the leak (e.g., by isolating or shutting down the leaking equipment), clean up contaminated media (e.g., soils), and repair the leak prior to recommencing operations. The Applicant shall report the status and progress of the leak repair and remediation work to the County and the CUPA on monthly intervals or predetermined intervals until the repair has been completed. Contaminated media shall be analyzed according to 22 C.C.R. §§ 66261.21-66261.24 for determination of appropriate hazardous waste disposal. Hazardous Waste Determination procedures are provided in 22 C.C.R. § 66262.11. c. As part of the Site Plan, the Applicant shall identify the location and right of way for all pipelines to be used for the transport of oil, gas, and	Provide with Application Package; During construction and operation	KC PCDD; Division of Oil Gas and Geothermal Resources		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	produced water, including pipelines that intersect the main transport line, based on existing data and using commercially available technology, and, based on the results of this analysis, shall identify any sensitive receptors within 300 feet of the pipeline for purposes of complying with Mitigation Measure 4.8-4. Mechanical integrity testing of all such pipeline lengths within 300 feet of a sensitive receptor shall be required pursuant to Mitigation Measure 4.8.4-a. d. If a release, identified pursuant to subsection (b), cannot be repaired or remediated within 48 hours, and has potential impact to sensitive receptors, the Applicant shall incur costs to sample and analyze the potentially affected area, which may include soil, groundwater, outdoor or indoor air of sensitive receptors within 300 feet of the leak. Applicant shall pay all temporary relocation costs (e.g., housing, food, and transportation) for any exposed sensitive receptor until such time as the leak has been repaired and post-indoor air testing has been completed, as confirmed by identified agency having oversight of the remediation.				
	MM 4.8-5 If, during grading or excavation work, the Applicant observes evidence of contamination or if soil contamination is suspected, work near the excavation site shall be terminated, the work area cordoned off and appropriate health and safety procedures implemented for the location by the contractor's Health and Safety Officer. Samples shall be collected by a trained and qualified individual. Analytical data from suspected contaminated material shall be reviewed by the contractor's Health and Safety Officer. If the sample testing determines that contamination is not present, work may proceed at the site; however, if contamination is detected above regulatory limits, the Kern County Public Health Services Department shall be notified. All actions related to encountering unanticipated hazardous materials at the site shall be documented and submitted to the Kern County Public Health Services Department.	Provide with Application Package; During construction and operation	Kern County Public Health Services; Kern County Environmental Health;		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Public Health Services and Environmental Health will verify.			
	MM 4.8-6 The Applicant shall implement measures to prevent the release or accidental spillage of solid waste, garbage, construction debris, sanitary waste, industrial waste, naturally occurring radioactive materials, oil and other petroleum products, and other wastes into water bodies or water sources, including all applicable practices included in the most up-to-date versions of the following documents: Exemption of Oil and Gas Exploration and Production Wastes From Federal Hazardous Waste Regulations (EPA 2002). Equivalent industry standards such as Environmental Protection for Onshore Oil and Gas Productions and Leases (American Petroleum Institute 2009) and related standards may also be utilized, provided that a professional engineer, certified industrial hygienist or certified safety professional certifies to the County that such alternative standards are as or more protective of human health and the environment, as compared to the standards in the referenced Environmental Protection Agency manual. The determination of when and the extent to which	Provide with Application Package; During construction and operation	KC PCDD		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	a measure is "practical" is to be made by the Applicant; however, all of the below activities must comply with all applicable legal requirements, including federal and state laws and regulations, County ordinances, and the mitigation measures included in this Final EIR. a. Classify the various oil and gas exploration and production wastes for proper disposal as described in United States Environmental Protection Agency 2002, and in accordance with applicable California laws and regulations. b. Size reserve pits properly to avoid overflows. c. Use closed loop mud systems when practical, particularly with oil-based muds. d. Review safety data sheets of materials used, and select less toxic alternatives when possible. e. Minimize waste generation, such as by designing systems with the smallest volumes possible (e.g., drilling mud systems). f. Reduce the amount of excess fluids entering reserve and production pits. g. Keep non-exempt wastes out of reserve or production pits. h. Design the drilling pad to contain stormwater and rigwash. i. Recycle and reuse oil-based muds and high density brines, when practical, and when such recycling and reuse complies with hazardous waste laws and recycling laws. j. Perform routine equipment inspections and maintenance to prevent leaks or emissions. k. Reclaim oily debris and tank bottoms when practical, and when such reclamation complies with hazardous waste laws and recycling laws. l. Minimize the volume of materials stored at facilities. m. Construct adequate berms around materials and waste storage areas to contain spills. n. Perform routine inspections of materials and waste storage areas to locate damaged or leaking containers. o. Train personnel to use sensible waste management practices.				
	MM 4.8-7 Conduct exploration and development activities as described in *Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development The Gold Book* (Bureau of Land Management 2007) **o**r equivalent industry standard such as Environmental Protection for Onshore Oil and Gas Production Operations and Leases (American Petroleum Institute 2009) and related standards. The following specific measures should be undertaken at a minimum: a. Sufficient impervious secondary containment, such as containment dikes, containment walls, and drip pans, should be constructed and maintained around all qualifying petroleum facilities, including tank batteries and separation and treating areas consistent with the Environmental Protection Agency's Spill Prevention, Control, and	Provide with Application Package; During construction and operation	KC PCDD; Environmental Protection Agency; Kern County Fire Department		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	Countermeasures regulation (40 Code of Federal Regulations 112). The containment structure must have sufficient volume to contain, at a minimum, the content of the largest storage tank containing liquid hydrocarbons within the facility/battery and sufficient freeboard to contain precipitation, unless more stringent protective requirements are deemed necessary by the authorized officer. Drip pans should be routinely checked and cleaned of petroleum or chemical discharges and designed to prevent access by wildlife and livestock. b. Chemical containers should not be stored on bare ground, and should be maintained in good condition and placed within secondary containment in case of a spill or high velocity puncture. c. Containment dikes are not to be constructed with topsoil or coarse, insufficiently impervious spoil material. Containment is strongly suggested for produced water tanks. Chemicals should be placed within secondary containment and stored so that the containers are not in contact with soil or standing water and product and hazard labels are not exposed to weathering. d. Maintain a clean well location. Remove trash, junk, and other materials not in current use. e. In approving a well stimulation treatment permit, the applicant shall include in the spill contingency plan required by Section 1722.9 of Title 14 of the California Code of Regulations a protocol for measuring and reporting earthquake and earth consequences that occur during the well stimulation process, for however many well stimulation treatments are proposed to occur simultaneously at any given time. The Spill Contingency Plan shall include requirements for adequate personnel and equipment that may be necessary to conduct post-earthquake inspection and repair plans to evaluate any damage that has occurred. The Spill Contingency Plan shall include spill prevention, control and countermeasure plans to address the hazardous substances associated with well stimulation activities. The post-earthquake inspection procedures shall ensure the integrity of the mechanical systems and well integrity of wells used for stimulation or wastewater injection and idle wells that might have become conduits for escaping fluids or gases. The plan shall include procedures describing the necessary steps to be taken after service is disrupted in order to make the facilities secure, operational and safe as soon as possible.				
	MM 4.8-8 Applicants shall use the appropriate American Petroleum Institute Standards, or other recognized sources imposing the same or equivalent standards, for their facility, such as the following: a. Use cements and well materials in well completions as described in Specifications for Cements and Materials for Well Cementing (American Petroleum Institute 2011).	Provide with Application Package; During construction and operation	KC PCDD; Division of Oil Gas and Geothermal Resources		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the			

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	b. Prior to start-up of all new facilities, verify and prove the construction, installation, integration, testing, and preparation of systems have been completed as designed following the practices described in Facilities Systems Completion Planning and Execution (American Petroleum Institute 2013a). c. When the use of centralizers and stop-collars are required during well completion activities, follow the installation and testing requirements described in Recommended Practice for Centralizer Placement and Stop-collar Testing (American Petroleum Institute 2010a). d. Limit the environmental footprint of oil and gas exploration and production and reduce the incidence of releases of hazardous substances following the practices described in Environmental Protection for Onshore Oil and Gas Production Operations and Leases (American Petroleum Institute 2009). e. Minimize improper disposal by following the practices described in American Petroleum Institute Order No. G00004, Guidelines for Commercial Exploration and Production Waste Management Facilities (American Petroleum Institute 2001) or other recognized methods. These guidelines discuss the relevant regulations and permitting requirements; siting, construction, and technical consideration for various waste disposal options; as well as mitigation options. f. Minimize the environmental footprint of exploration and production activities following the practices described in Land Drilling Practices for Protection of the Environment (American Petroleum Institute 2010b) or other recognized sources. g. When pressure testing is required by State or federal law, prior to pressurizing or re-pressurizing petroleum product pipelines, ensure the integrity of pipelines following the practices described in Recommended Practice for the Pressure Testing of Steel Pipelines for the Transportation of Gas, Petroleum Gas, Hazardous Liquids, Highly Volatile Liquids, or Carbon Dioxide (American Petroleum Institute 2013b) or other recognized sources. h. To minimize releases of hazardous substances during oilfield construction, pit and sump operations shall be conducted in accordance with State Water Resources Control Board General Orders or appropriate Regional Water Quality Control Board waste discharge requirements or general orders.	mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
	MM 4.8-9 For all operations subject to the Oil and Gas Conformity Review, the Applicant shall comply with the pipeline management plan, including inspection and maintenance requirements, as administered by the Division of Oil Gas and Geothermal Resources pursuant to 14 California Code of Regulations 1774.	Provide with Application Package; During construction and operation	KC PCDD; Division of Oil Gas and Geothermal Resources		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the			

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		mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
4.8-2	**MM 4.8-10** The Applicant shall incorporate annual maintenance checks for leaks and corrosion that cause releases into current operations, maintenance, and inspection schedules as provided by the Division of Oil Gas and Geothermal Resources pursuant to 14 California Code of Regulations Sections 1774.1 and 1774.2, the Applicant shall visually inspect all above-ground pipelines for leaks and corrosion at least once per year, comply with the pipeline testing requirements included therein, shall maintain records of such inspections and testing; and shall make inspection and testing records available to the County for review upon request.	Provide with Application Package; During construction and operation	KC PCDD; Division of Oil Gas and Geothermal Resources		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
	MM 4.8-11 As part of the Hazardous Materials Business Plan and the spill prevention, control, And countermeasures Plan, the Applicant shall require annual worker training requirements to: increase awareness of the most common types of failures and methods to avoid mistakes, shall maintain records of employee training, and shall make such records available to the County for review upon request.	Provide with Application Package; During construction and operation	KC PCDD; Kern County Fire Department		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
	MM 4.8-12 An Applicant who plans to perform cyclic steam injection activities above reservoir fracture pressures shall conduct such activities in accordance with the requirements set forth in the Division of Oil Gas and Geothermal Resources site-specific Project Approval Letter for the injection project. The following requirements from a Project Approval Letter for an injection project are examples of the types of conditions that would be triggered if a surface expression were to occur, though such conditions may be modified by the Division of Oil Gas and Geothermal Resources to reflect site-specific conditions and changing regulatory requirements. a. Cease cyclic steaming operations in accordance with the site-specific Project Approval Letter. Streaming can resume following the Division of Oil Gas and Geothermal Resources specifications outlined in the Project Approval Letter. b. All new or reactivated surface expressions that discharge oil in a reportable quantity shall be reported as an oil spill to the California Emergency Management Agency at (800) 852-7550. c. Any measures to address surface expressions from the well and associated Project shall be reviewed by the Division of Oil Gas and Geothermal Resources prior to initiating. d. Immediately control any water, steam, or oil flowing from a surface expression and contained. All discharged material shall be removed and disposed of in a manner approved by all state and local agencies.	During construction and operation	KC PCDD; Division of Oil Gas and Geothermal Resources; Kern County Environmental Health		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department and the Division of Oil Gas and Geothermal Resources will verify.			

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	e. Cordon off and clearly mark all surface expressions to prevent inadvertent access. f. Conduct air sampling of any emissions associated to a recent surface expression in accordance to the local air board requirements to ensure a health hazard condition does not exist. g. Report immediately to the Division of Oil Gas and Geothermal Resources all surface expressions within 300 feet of the Project site. If the surface expression continues to flow after five days, all wells within a 300-foot radius shall cease steaming until the surface expression ceases to flow. If the surface expression continues to flow, the damage will be evaluated at the Supervisor's discretion, as assigned by Section 3106 of the Public Resources Code and existing laws and regulations.				
	MM 4.8-13 The Applicant shall comply with the Division of Oil Gas and Geothermal Resources requirements for assuring safe drilling and drill casing practices, well design, construction and well management requirements, blowout requirements, and all other provisions of 14 California Code of Regulations 1744 and other applicable Division of Oil Gas and Geothermal Resources regulations. The Applicant shall also reduce the incidence of well control loss by following the practices described in Recommended Practice for Well Control Operations (American Petroleum Institute 2012).	During construction and operation	KC PCDD; Division of Oil Gas and Geothermal Resources		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
	MM 4.8-14 The Applicant shall report contamination caused by oil and gas activities, including previously unknown injection wells, of a reportable quantity of hazardous substances, as specified in the Code of Federal Regulations Title 40 and/or the California Code of Regulations Titles 22 and 23, which is discovered during Project construction activities and operations. Notification must be made to Kern County Environmental Health Division and the appropriate implementing regulatory agency that has responsibility or oversight of the specific contamination conditions. The Applicant shall remediate such contamination outside Tier 1 areas as required by the Kern County Environmental Health Division and the appropriate implementing regulatory agency.	During construction and operation	KC PCDD; Kern County Environmental Health; Environmental Protection Agency		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
4.8-3	**MM 4.8-15** The Applicant who intends to use acutely hazardous chemicals, including chemicals at or above the specified threshold quantities or a process which involves a Category 1 flammable gas or a flammable liquid with a flashpoint below 100 degrees Fahrenheit (37.8 degrees Celsius) on site in one location, in a quantity of 10,000 pounds (4535.9 kilograms) or more according to 8 California Code of Regulations Section 5189, Appendix A, within 0.25 mile from a school must: a. Evaluate whether other alternative chemicals that are less hazardous could be used. b. Ensure that the smallest quantity of necessary acutely hazardous	Provide with Application Package; During construction and operation	KC PCDD; Kern County Fire Department		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department and Kern County Fire Department will verify.			

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	materials are stored on site. c. Notify the occupants of the buildings when and where acutely hazardous materials would be used. d. Notify Kern County Fire Department about the details of the use of acutely hazardous materials (e.g., when, where, how much). e. Ensure that all employees who would contact the acutely hazardous materials are trained on the handling, transport, storage, and disposal of the materials. f. Ensure that all employees who would contact the acutely hazardous materials are trained and are provided the proper personal protective equipment. g. Ensure that all employees who would contact the acutely hazardous materials are trained and have exercised on the Spill Prevention, Control, and Countermeasures Plan that addresses these chemicals. **MM 4.8-16** The applicant shall not use any well stimulation fluid unless the applicant presents one of the following: 1. Safety Data Sheet that accurately describes the physical and chemical properties of the well stimulation fluid; or 2. Safety Data Sheets that accurately describe the physical and chemical properties of all chemical compounds in the well stimulation fluid; or 3. Toxicological report prepared by a qualified laboratory and/or the fluid vendor confirming the environmental profile of the well stimulation fluid is known; or 4. Results of an aquatic bioassay by a qualified laboratory confirming the environmental profile of the well stimulation fluid is known. For purposes of this mitigation measure, the term "environmental profile" means the physical and chemical properties of a compound that determine its risk to human health and the environment. This mitigation measure shall be superseded by any list of approved well stimulation treatment fluids, chemicals or additives published by the State of California or by any applicable State of California regulation pertaining to chemical use in well stimulation treatment.				
4.8-4	Implement Steps to Compliance as described in MM 4.8-1, MM 4.8-17, MM 4.8-18				
4.8-5	**MM 4.8-17** The Applicant shall determine whether any proposed construction or alteration meets requirements for notification of the Federal Aviation Administration. If a proposed construction or alteration is found to require notification, the Applicant shall notify the Federal Aviation Administration and request that the	Provide with Application Package; During construction and operation	KC PCDD; Federal Aviation Administration		

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	Federal Aviation Administration issue a Determination of No Hazard to Air Navigation. If the Federal Aviation Administration determines that the construction or alteration would result in a potential hazard to air navigation, the Applicant would be required to work with the Federal Aviation Administration to resolve any adverse effects or airport operations. The Applicant shall notify the Federal Aviation Administration and the nearest Airport, by completing and submitting Federal Aviation Administration Form 7460-1 if oil and gas related exploration, production, or associated development activities are planned that meet one or more of the following criteria: a. Any construction or alteration exceeding 200 feet above ground level. b. Any construction or alteration within 20,000 feet of all public use airports except Poso-kern Airport which exceeds a 100:1 surface from any point on the runway. c. Any construction or alteration within 10,000 feet of the Poso-Kern Airport which exceeds a 50:1 surface from any point on the runway. d. Any construction or alteration within 5,000 feet of a public use heliport which exceeds a 25:1 surface. e. When requested by the Federal Aviation Administration. f. Any construction or alteration located on a public use airport or heliport regardless of height or location.	**Steps to Compliance:** A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department and Federal Aviation Administration will verify.			
	MM 4.8-18 The Applicant shall determine the distance from the proposed operation to the nearest boundary of the Joint Service Restricted R-2508 Complex, using a map of this Complex provided by the County. The Applicant shall notify the Joint Service Restricted R2508 Complex representative identified by the County if oil and gas related exploration, production, or associated development activities are planned that meet one or more of the following criteria: a. Any structure within 75 miles of the R-2508 Complex that is greater than 50 feet tall. b. Any project within 50 miles of the R-2508 Complex that emit radio and communication frequencies. c. Any project that would create environmental impacts such as visibility or elevated obstructions within 25 miles of the R-2508 Complex.	Provide with Application Package; During construction and operation	KC PCDD		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
	MM 4.8-19 All oil and gas related development activities shall review the Kern County Airport Land Use Compatibility Plan for compliance with all applicable policies.	Provide with Application Package; During construction and operation	KC PCDD; Kern County Airport		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
4.8-8	**MM 4.8-20** The Applicant is required to implement the following measures: a. Comply with Kern County Fire Codes.	Provide with Application Package;	KC PCDD; Kern County Fire		

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	b. Maintain firefighting apparatus and supplies required by the Kern County Fire Department. c. Maintain of a list of all relevant fire-fighting authorities for each work site. d. Have available equipment to extinguish incipient fires and or construction of a fire break, such as: chemical fire extinguishers, shovels, axes, chain saws, etc. e. Carry water or fire extinguishers and shovels in non-passenger vehicles in the field. f. Have and maintain an adequate supply of fire extinguishers for welding, grinding, and brushing crews. g. Use available resources to protect individual safety and to contain any fire that occurs and notify local emergency response personnel. h. Remove any flammable wastes generated during oil and gas activities regularly. i. Store all flammable materials used in oil and gas activities away from ignition sources and in approved containers. j. Allow smoking only in designated smoking areas. k. Prohibit smoking where flammable products are present and when the fire hazard is high. Train personnel regarding potential fire hazards and their prevention. l. All internal combustion engines, stationary and mobile, shall be equipped with spark arresters. Spark arresters shall be in good working order. m. Light trucks and cars with factory-installed (type) mufflers shall be used only on roads where the roadway is cleared of vegetation. Said vehicle types shall maintain their factory-installed (type) muffler in good condition. n. Fire rules shall be posted on the Project bulletin board at the contractor's field office and areas visible to employees. o. Equipment parking areas and small stationary engine sites shall be cleared of all extraneous flammable materials. p. Personnel shall be trained in the practices of the Fire Safety Plan relevant to their duties. Construction and maintenance personnel shall be trained and equipped to extinguish small fires in order to prevent them from growing into more serious threats.	During construction and operation	Department		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department and Kern County Fire Department will verify.			
	MM 4.8-21 The Applicant should restrict the use of chainsaws, chippers, vegetation masticators, grinders, tractors, torches, and explosives at its locations, and ensure the sites where this equipment is used are equipped with portable or fixed fire extinguishers and/or a water tank, with hoses, fire rakes, and other tools to extinguish and or control incipient stage fires. The Worker Environmental Awareness Program shall include fire prevention and response training for workers using these tools.	Provide with Application Package; During construction and operation	KC PCDD		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures.			

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		B. The Kern County Planning and Community Development Department will verify.			
4.8-9	**MM 4.8-22** Applicants shall ensure that trash is stored in closed containers and removed from the site at regular intervals. Open containers shall be inverted and construction ditches shall not be allowed to accumulate water. Construction and maintenance operations shall not generate standing water. Naturally occurring depressions, drainages, or pools at the site shall not be drained or filled without consulting with the appropriate resource agency (Kern County, United States Army Corps of Engineers, United States Fish and Wildlife Service, California Department of Fish and Wildlife) as applicable, and obtaining the appropriate permits.	During construction and operation	KC PCDD		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
4.8-10	Implement MM 4.8-1 through MM 4.8-22, as described above, and dust control and toxic air contaminant setback mitigation measure, as described in Section 4.3, Air Quality, risk reduction measures, as described in Section 4.6, Geology and Soils, and mitigation measures to maintain water quality, as described in Section 4.9, Hydrology and Water Quality.				
Hydrology and Water Quality					
4.9-1	**MM 4.9-1** The Applicant shall comply with all applicable federal, state, regional and local agency water quality protection laws and regulations, and commonly utilized industry standards, including (where applicable) obtaining coverage under the stormwater construction general permit and industrial general permit issued by the State Water Resources Control Board and complying with industry stormwater management standards for construction and operational activities. The applicant shall obtain all required permits from Division of Oil Gas and Geothermal Resources, and such permits shall include measures that will safeguard protected groundwater with appropriate casing, seal and related down-hole technical specifications.	During construction and operation	KC PCDD; State Water Resources Control Board; Environmental Protection Agency		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Applicant shall a Stormwater Management Plan. C. The Applicant shall submit in writing approval from federal and state agencies verifying permit approval. D. The Kern County Planning and Community Development Department will verify.			
	MM 4.9-2 A. Oil and Gas activities in Tier 1 shall comply with the following. 1. In areas subject to National Pollutant Discharge Elimination System stormwater permitting requirements, project applicants shall file a Notice of Intent to the State Water Resources Control Board to comply with the statewide General Permit for Discharges of Stormwater Associated with Construction Activities (Construction General Permit State Water Resources Quality Control Board Order No 2009-009-DWO) prior to undertaking all ground-disturbing activities greater than one acre and shall prepare and implement a Stormwater Pollution Prevention Plan for construction activities on the Project site in accordance with the Construction General Permit. For facilities requiring coverage under the Construction General Permit,	Provide with Application Package; During construction and operation	KC PCDD; Kern County Public Works Department		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Applicant shall submit a drainage plan. C. The Applicant shall submit in writing approval from federal and state agencies verifying permit approval. D. The Kern County Engineering, Surveying and Permit Services Department will verify.			

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	the site specific Stormwater Pollution Prevention Plan shall include measures to achieve the following objectives: (1) all pollutants and their sources, including sources of sediment associated with construction activity are controlled; (2) all non-stormwater discharges are identified and either eliminated, controlled and treated, (3) site Best Management Practices are effective and result in the reduction or elimination of pollutants in stormwater discharges and authorized non-stormwater discharges from construction activity and (4) stabilization Best Management Practices to reduce or eliminate pollutants after construction are completed. The Stormwater Pollution Prevention Plan shall be prepared by a qualified preparer and shall include the minimum Best Management Practices required for the identified risk level. The Stormwater Pollution Prevention Plan shall include a construction site monitoring program that identified requirements for dry weather visual observations of pollutants at all discharge locations and, as appropriate, depending on the project risk level, sampling of site effluent and receiving waters. A qualified Stormwater Pollution Prevention Plan practitioner shall be responsible for implementing and all monitoring for the Best Management Practices as well as all inspection, maintenance and repair activities at the project site. If applicable, each project shall also implement and fully comply with the Industrial Storm Water Permit (Order No 97-03-DWO) and Kern County Municipal Stormwater Permit (Order No 5-01-120). All plans under these requirements shall be submitted to Kern County Public Works for review and approval. 2. Any operator of a facility that meets the following requirements is not required to be covered by the Construction General Permit (State Water Regional Control Board Memorandum dated 5-18-2010): a. discharges of stormwater runoff from oil and gas exploration, production, processing or treatment operations or transmission facilities, including field activities or operations that may be considered construction activity; 1. are not contaminated by contact with, or do not come into contact with, any overburden, raw material, intermediate products, finished product, byproduct or waste products; 2. are only contaminated by or only come into contact with sediment; and 3. pursuant to 40.C.F.R. § 122.26(c)(1) (iii) that do not contribute to a violation of a water quality standard. Any change to this State Water Regional Control Board determination will require full compliance with National Pollutant Discharge Elimination System requirements. 3. Any operator not subject to National Pollutant Discharge Elimination				

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	System stormwater permitting requirements shall implement Best Management Practices during construction and operation. All selected practices shall be shown on a drainage implementation plan and self-certified as complete and feasible by a licensed professional qualified in drainage and flood control issues. The plan shall be submitted to the Kern County Planning and Community Development department. The following Best Management Practices shall be implemented and shown on the drainage implementation plan : a. Utilizing established facilities design, construction or similar standards as appropriate (e.g., American Society for the Testing and Materials (ASTM) American Petroleum Institute (API)). b. Implementation good housekeeping and maintenance practices: i. Preventing trash, waste materials and equipment from construction storm water. ii. Maintaining wellheads, compressors, tanks and pipelines in good condition without leaks or spills. iii. Designing and maintaining graded pads to not actively erode and discharge sediment iv. Maintaining vehicles in good working order v. Providing secondary containment for all –above –ground storage tanks and maintaining such containment features in good operating condition c. Implementing spill prevention and response measures i. Utilizing preventative operating practices such as tank level monitoring, safe chemical handling and conducting regular inspections. ii. Developing and maintaining a spill response plan iii. Conducting spill response training for employees and have a process to ensure contractors have the necessary training iv. Maintaining spill response equipment on site. d. Implementing material storage and management practices: i. Preventing unauthorized access ii. Utilizing “run-on” and “run-off” control berms and swales iii. Stabilizing exposed slopes through vegetation and other appropriate methods (e.g., hay bales or rolls). B. Oil and gas activities outside Tier 1 shall comply with all applicable state and federal stormwater management laws. For any oil and gas activity outside Tier 1 that is not subject to state or federal stormwater management				

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	laws, regulations or general permits, the Applicant shall prepare a drainage plan that is designed to minimize runoff and minimize the potential for impeding or redirecting 100-year flood flows. The drainage plan shall be prepared in accordance with the Kern County Grading Code, the Green Code and approved by the Kern County Department of Public Works, Floodplain Management Section. The plan shall specify best management practices to prevent all construction pollutants from contacting stormwater, with the intent of keeping sedimentation or any other pollutants from moving offsite and into receiving waters. The requirements of the Plan shall be incorporated into design specifications. Recommended best management practices for the construction phase must be shown on a drainage plan, and shall include the following: a. Erosion Control - 1. Scheduling of construction activities to avoid rain events. 2. Limiting vegetation removal to the minimum required. b. Sediment Control - 1. Secure stockpiling of soil. 2. Installation of a stabilized construction entrance/exit and stabilization of disturbed areas. c. Non-stormwater Control - 1. Proper fueling and maintenance of equipment and vehicles. 2. Proper concrete handling techniques. d. Waste and Material Management - 1. Properly managing construction materials, designating construction staging areas in or around the Project site. 2. Stockpiling and disposing of demolition debris, concrete, and soil properly. 3. Prompt removal and proper disposal of litter. 4. Proper disposal of demolition debris, concrete and soil. 5. Proper protections for fueling and maintenance of equipment and vehicles. 6. Provide and maintain adequate secondary containment to minmize or eliminate pollutants from moving offsite and into receiving waters. e. Post-Construction Stabilization - 1. Ensuring the stabilization of all disturbed soils per revegetation or application of a soil binder. C. If construction activities will alter federal jurisdictional waters, project applicants shall comply with the federal Clean Water Act Section 404 and Section 401 permitting and certification requirements. If construction activities will alter state waters, project applicants shall comply with California Department of Fish and Wildlife Streambed Alteration requirements.				

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	MM 4.9-3 All drilling operations must either use a closed loop system to avoid discharges of drilling muds and fluids, or obtain coverage under the State Water Resources Control Board low threat discharge General Order (Waste Discharge Requirements General Order 2003-0003-DEW), obtain individual Waste Discharge Requirements issued by the Central Valley Regional Water Quality Control Board for the unit, or obtain coverage under a general order issued by the Central Valley Regional Water Quality Control Board applicable to drilling ponds. Any surface ponds or sumps must be cleared of fluids and muds in accordance with the State Water Resources Control Board general order, applicable Water Discharge Requirements and Division of Oil Gas and Geothermal Resources regulations. Compliance with the State Water Resources Control Board or Central Valley Regional Water Quality Control Board low-threat discharge orders or Water Discharge Requirements, if closed-loop systems are not used, and applicable laws, regulations and standards will reduce potential surface water quality impacts from contact with drilling muds or fluids during drilling and construction to less than significant levels. After consultation with and approval by the Regional Water Board with jurisdiction over injection and groundwater, applicant shall provide for a tracer or some other reasonable method to allow well stimulation fluids to be distinguished from other fluids or chemicals for well stimulation permits. This could consist of an added tracer using an inert constituent that could be used to identify the presence of well stimulation fluids. Alternatively, it could be an intrinsic tracer, or some naturally occurring component that makes the well stimulation fluids chemically unique. Potential geochemical changes in the subsurface during injection or migration shall be considered. Use of a tracer shall be required to be disclosed to the public under Section 1788 of the SB 4 regulations. The regulations specifically require that the applicant require the composition and disposition of all well stimulation treatment fluids other than water, including "any radiological components or tracers injected into the well as part of the well stimulation treatment, a description of the recovery method, if any, for those components or tracers, the recovery rate, and specific disposal information for the recovered components or tracers a radiological component or tracer injected" (Section 1788 (15)). For any well stimulation treatment activity, the applicant shall not conduct well stimulation treatment activity until the State Water Resources Control Board, in consultation with the Central Valley Regional Water Quality Control Board, has approved either a groundwater monitoring plan or exclusion from groundwater monitoring for a given well, consistent with the State Water Resources Control Board Model Criteria for Groundwater Monitoring in Areas of Oil and Gas Well Stimulation.	During construction and operation	KC PCDD; State Water Resources Control Board; Central Valley Regional Water Quality Control Board		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. Obtain Waste Discharge Permit. C. The Kern County Planning and Community Development Department will verify.			
	MM 4.9-4 For any activity for which Chapter 19.98 applies, the Applicant shall not	During construction and	KC PCDD;		

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	conduct any Class II injection activity regulated by the Underground Injection Control program, including enhanced oil recovery activities that discharge into any underground source of current or future beneficial use groundwater, including drinking water, unless the aquifer has been exempted by the United States Environmental Protection Agency or injection has otherwise been authorized by the U.S. Environmental Protection Agency or by the Division of Oil Gas and Geothermal Resources, in consultation and agreement by the State Water Resources Control Board, consistent with Public Resources Code 3131.	operation	Environmental Protection Agency; Division of Oil Gas and Geothermal Resources		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
	MM 4.9-5 For any activity for which Chapter 19.98 applies, the Applicant shall not discharge produced water into any surface disposal facility unless the facility has received the Waste Discharge Requirements from the Central Valley Regional Water Quality Control Board, or the need for Water Discharge Requirements has been waived by the Central Valley Regional Water Quality Control Board. As required by the SB 4 regulations, well stimulation treatment fluids and produced fluids from wells that have been stimulated cannot be stored, discharged, or disposed into surface ponds or pits.	During construction and operation	KC PCDD; Central Valley Regional Water Quality Control Board		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
	MM 4.9-6 For any oil and gas activity within a Special Flood Hazard Area, the Applicant shall ensure that all constructed facilities are elevated or floodproofed in compliance with the requirements and standards found in the Kern County Floodplain Management Ordinance and Chapters 19.50 and 19.70 of the Kern County Zoning Code.	Provide with Application Package; During construction and operation	KC PCDD		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
4.9-2 4.9-3 4.9-4 4.9-6 4.9-8 4.9-9 4.9-11	Implement Steps to Compliance MM 4.9-1 through MM 4.9-6				
Land Use and Planning					
4.10-1	Implement specified mitigation measures, including those that are applicable from Section 4.1, Aesthetics and Visual Resources, Section 4.3, Air Quality, Section 4.4 Biological Resources, Section 4.12, Noise, Section 4.15, Recreation, and Section 4.17, Utilities and Service Systems.				
Noise					
4.12-1	**MM 4.12-1** **Construction:**	Provide with Application	KC PCDD		

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	The Site Plan Application shall include a Site Vicinity Figure showing the location of any sensitive receptor(s) within the distances listed in the construction noise setbacks table, as shown below, of the construction site (potential impact area) for the proposed new well or other ancillary facility or equipment (excluding pipelines). This Figure need not be prepared for Tier 1 areas unless a sensitive receptor is located within 3,270 feet of a construction site inside the Tier 1 area. a. If there are no sensitive noise receptors within this potential impact area, then no construction mitigation measures shall be required. b. If there are sensitive human noise receptors within the potential impact area, then additional information must be provided showing the type of equipment being used and the noise contours with levels not exceeding 65 dB DNL at the nearest exterior wall of the sensitive receptor or more than 1 dB DNL higher than the ambient noise levels, if in excess of 65 dB DNL. If noise levels are shown to exceed 65 dB DNL or more than 1 dB DNL higher than the ambient noise levels in excess of 65 dB DNL, then one or more of the following mitigation measures shall be taken: 1. Placement of a temporary sound attenuation wall(s) shall be placed at the optimal distance to the sensitive receptor, as determined by an acoustical expert. 2. Construction of a temporary berm shall be placed at the optimal distance to the sensitive receptor, as determined by an acoustical expert. 3. Modification of equipment to reduce noise impacts. 4. Implementation of a quiet mode drilling plan or other sound reduction technology or practices as documented in a report submitted to the County. 5. Arranging for the voluntary, temporary relocation of the occupants of the sensitive receptor during the construction period. 6. Use the following setback distances for the activities specified: **Construction Noise Setbacks**	Package; During construction and operation			
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			

Activity	Setback Distance (feet)
Drilling (Well Advancement)	1550
Drilling (Pull Out Of Well/Borehole)	820
Large-Scale Exploratory Drilling[1]	3270

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	Well Workover 930 Hydraulic Fracturing 1090 Note: Note: [1]Kenai Drill Rig #7 Information submitted with the Site Plan Application must detail the combination and methods used to determine the level of reduction and shall not exceed 65 dB DNL or any ambient levels in excess of 65 dB DNL or more than 1 dB DNL higher than the ambient noise levels, if in excess of 65 dB DNL .				
	MM 4.12-2 **Operation:** New oil and gas wells shall be a minimum 210 feet from the closest sensitive receptor. Geophysical testing methods using vibroseis vehicles to generate sound waves shall be a minimum 150 feet from the closest occupied building, water well, sewer system, and septic tank. Geophysical testing methods using shotholes that employ explosives shall be a minimum 300 feet from the closest occupied building, water well, sewer system, and septic tank, and shall be in full compliance with all laws governing explosives.	Provide with Application Package; During construction and operation	KC PCDD		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
4.12-3	Implement MM 4.12-2 Steps to Compliance				
4.12-4	Implement MM 4.12-1 Steps to Compliance				
4.12-5 4.12-6 4.12-7	Implement MM 4.12-1 and MM 4.12-2 Steps to Compliance.				
Public Services					
4.14-1	**MM 4.14-1** Applicant shall contribute to funding the acquisition of a Combination Walk-in/Non-Walk-in Industrial Firefighting vehicle capable of responding with a minimum of five firefighters with the tools and equipment necessary for industrial firefighting and rescue. Each Applicant shall pay $150 per well on each Oil and Gas Conformity Review permit until the total cost of the vehicle purchase is reached, not to exceed $850,000, to be paid through mitigation fees on Oil and Gas Conformity Review permits. Subsequent Applicants shall not be subject to this mitigation measure.	Provide with Application Package; During construction and operation	Kern County KC PCDD		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
	MM 4.14-2 Applicant shall provide funding in the amount of $425 per Oil and Gas Conformity Review permit issued for the Sheriff's Rural Crime Unit. Funding shall be used for one Sergeant, two Senior Deputies (investigators), three Deputies, One Support Technician (clerical), and helicopter usage, based on the amount of funding provided by this permit mitigation fee. The fee shall be in addition to any general funds received by the Sheriff's Department. The Sheriff's department shall annually report on the expenditure of funds for the	Provide with Application Package; During construction and operation	KC PCDD		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures.			

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	Rural Crimes Unit, including incident reports and response times. If other sources of funding for the Rural Crimes Unit are secured, then the mitigation fee amount shall be adjusted to pay only the gap between actual costs and funding provided from other sources. The first 100 permits issued in a calendar year to certified small producers under the Small Producers Program included in the Project shall not pay this mitigation fee based on their very low proportionate use of the Rural Crimes Unit (100 permits are estimated to generally be less than 5% of the permits issued annually).	B. The Kern County Planning and Community Development Department will verify.			
4.14-2	Implement MM 4.14-1 and MM 4.14-2 Steps to Compliance.				
Traffic and Transportation					
4.16-1	**MM 4.16-1** The Applicant shall pay a road maintenance mitigation fee of $1,500 per permit for new wells to pay for roadway maintenance and related improvements to address wear and tear on roads caused by oil and gas industry traffic. The Kern County Public Works Department shall annually report on the expenditure of funds from the Oil and Gas Roadway Maintenance Fee. Expenditures from the fund shall be as determined by the Roads Commissioner, using as a reference the list of roadways identified in the Environmental Impact Report as being used for traffic by the oil and gas industry. If Kern County secures funding from a sales tax dedicated to transportation funding, then the amount of the traffic mitigation fee shall be re-evaluated at the time the County becomes a self-help county. The first 100 permits issued in a calendar year to certified small producers under the Small Producers Program included in the Project shall not pay this mitigation fee based on their very low proportionate roadway use (100 permits are estimated to generally be less than 5% of the permits issued annually).	Provide with Application Package; During construction and operation **Steps to Compliance:** A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.	KC PCDD; Kern County Public Works Department		
	MM 4.16-2 Applicants who are using an arterial or collector, or Caltrans route, for access to a construction site, shall consult with the Kern County Public Works Department to determine if a Construction Traffic Control Plan is required based on the timing and volume of larger vehicle rigs and the volume of traffic to address public safety and congestion management. If a Plan is required, the Applicant shall prepare and submit a Construction Traffic Control Plan to the Kern County Public Works Department and to the California Department of Transportation (District 9 office) for approval. The Construction Traffic Control Plan must be prepared in accordance with both the California Department of Transportation Manual on Uniform Traffic Control Devices and Work Area Traffic Control Handbook and shall include, but not be limited to, the following issues: a. Timing of deliveries of heavy equipment and building materials. b. Placing temporary signing, lighting, and traffic control devices as necessary to indicate the presence of heavy vehicles and construction traffic. c. Determining the need for construction work hours and	Provide with Application Package; During construction and operation **Steps to Compliance:** A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Public Works Department will verify.	Kern County Public Works Department		

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	arrival/departure times outside peak traffic periods. d. Ensuring access for emergency vehicles to the Project site. e. Any temporary closure of travel lanes or disruptions to street segments and intersections during well development. f. Maintaining access to adjacent property.				
4.16-2	Implement MM 4.16-2 Steps to Compliance.				
4.16-3	Implement airport-related mitigation measures, as described in Section 4.8, Hazards and Hazardous Materials.				
4.16-4 4.16-5 4.16-6	Implement MM 4.16-2 Steps to Compliance.				
4.16-7	Implement of MM 4.16-1 and MM 4.16-2 Steps to Compliance.				
Utilities and Service System					
4.17-2	**MM 4.17-1** Prior to the issuance of building permits for an operations and maintenance building, the method of sewage disposal shall be as required and approved by the Kern County Public Health Services Department. Compliance with this requirement will necessitate that the Project proponent obtain the necessary approvals for the design of the septic system from the Kern County Department of Public Works. The septic system disposal field shall be located a minimum of 100 feet from a classified stream or 25 feet from a non-classified stream and shall not be located where it would impact State wetlands or special-status plant species.	Provide with Application Package; During construction and operation	Kern County Public Works Department		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
4.17-4	**MM 4.17-2** Applicant shall increase the re-use of produced water, and reduce its use of municipal and industrial-quality ground or surface water use to the extent feasible. By the end of 2016, the Applicants shall work with the County to review water use data submitted to Division of Oil Gas and Geothermal Resources under Senate Bill 1281 and identify the five biggest oil industry users of municipal and industrial water by volume. The five biggest oil industry users of municipal and industrial water shall work together to develop and implement a plan identifying new measures to reduce municipal and industrial water use by 2020. The plan shall address the following activities, as appropriate: steam generation; drilling and completions (including hydraulic fracturing); dust control; compaction activities related to construction; and landscaping. Through the KernFLOWS initiative or other efforts (e.g., Groundwater Sustainability Agency), the five biggest oil industry users of municipal-and-industrial water shall also work with local agricultural producers and water districts to identify new opportunities to increase the use of produced water for agricultural irrigation and other activities, as appropriate. Any produced water treated and used for agricultural irrigation or other activities shall be tested and monitored to assure compliance with applicable standards for such agricultural irrigation or other uses.	During construction and operation	KC PCDD		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			

Impact	Mitigation Measure	Time Frame for Implementation	Responsible Monitoring Agency	Date	Initials
	MM 4.17-3 In the County's required participation for the formulation of a Groundwater Sustainability Agency, the Applicant shall work with the County to integrate into the Groundwater Sustainability Plan for the Tulare Lake-Kern Basin, best practices from the oil and gas industry to encourage the re-use of produced water from oil and gas activities, and (with appropriate treatment) to produce new water supplies for other uses such as agricultural irrigation and groundwater recharge. The produced water re-use goal is 30,000 acre-feet per year, which would offset more than the current use of imported water and groundwater from non-oil bearing zones by the oil and gas industry.	Provide with Application Package; During construction and operation	KC PCDD		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
	MM 4.17-4 The Applicant shall work with the County on the Groundwater Sustainability Plan to increase Applicant use of reclaimed water and reduce the Applicant's use of municipal-and-industrial quality imported surface water or groundwater. The Applicant will provide copies of water use reports produced under SB 1281 to the Groundwater Management Agency, which will then integrate this information into the Groundwater Sustainability Plan required under the Sustainable Groundwater Management Act.	Provide with Application Package; During construction and operation	KC PCDD		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
4.17-5	Implement MM 4.17-1 Steps to Compliance.				
4.17-6	**MM 4.17-5** During construction activities for Project facilities, the Applicant shall not store construction waste onsite for longer than the duration of the construction activity, or transport any waste to any unpermitted facilities. The Applicant shall also reduce construction waste transported to landfills by recycling solid waste construction materials, such as taking materials to recycling and reuse locations listed in the brochure on recycling construction and demolition materials available on the Kern County Waste Management Department website.	During construction	KC PCDD		
		Steps to Compliance: A. The Applicant shall implement measures as specified in the mitigation measures. B. The Kern County Planning and Community Development Department will verify.			
4.17-7	Implement MM 4.17-5 Steps to Compliance.				
4.17-8	Implement MM 4.17-1 through MM 4.17-5 Steps to Compliance.				

CEQA Guidelines Section 15094
Notice of Determination

CEQA
Transmittal Memorandum

This form must be completed and attached to each CEQA document filed with the County Clerk. Type or print clearly.

1) If notice requires F&G receipt, you must provide at least 3 copies of the document.
2) If notice does not require F&G receipt, you must provide at least 2 copies of the document.

November 10, 2015

LEAD AGENCY: KERN COUNTY PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT

PROJECT TITLE: Revisions to the Kern County Zoning Ordinance – 2015 (C) (Title 19, Kern County Ordinance Code)

PROJECT APPLICANT: Kern County Planning and Community Development Department; Western State Petroleum Association (WSPA); California Independent Petroleum Association; (CIPA); Independent Oil Producers Agency (IOPA)

PHONE NUMBER: (661) 862-8600

PROJECT APPLICANT ADDRESS: 2700 "M" Street, Suite #100

CITY: Bakersfield STATE: California ZIP CODE: 93301

WORK ORDER #PP13280 ■ 30-Day Posting ☐ 45-Day Posting ☐ 90-Day Posting

CONTACT PERSON: Christopher B. Mynk, AICP, Supervising Planner ((661) 862-8607)

CHECK DOCUMENT BEING FILED:

☐ Notice of Preparation	No Fee
☐ Notice of Availability	No Fee
☐ Notice of Public Hearing	No Fee
☐ Other Notice _____	No Fee
■ Environmental Impact Report (EIR)	$3069.75
☐ Previously paid (**must attach receipt**) Receipt Number#_____	
☐ DFG No Effect Determination (**F&G letter must be attached**)	No Fee
■ County Administrative Fee	$50.00
☐ Mitigated Negative Declaration or Negative Declaration	$2210.00
☐ Previously paid (**must attach receipt**) Receipt Number#_____	
☐ DFG No Effect Determination (**F&G letter must be attached**)	No Fee
☐ County Administrative Fee	$50.00
☐ Notice of Exemption	No Fee
☐ County Administrative Fee	$50.00

TOTAL $3119.75

PAYMENT METHOD: ALL APPLICABLE FEES MUST BE PAID AT THE TIME OF FILING

☐ Cash/Money Order ☐ Check ☐ Credit Card ■ JV (must complete below)

Dept #2750_____
Fund #24010_____
Expense Key_____

CBM:sc (11/05/15)
I:\WP\BS\272(oil&gas)-nov.s9.docx

Send copy to: **County Clerk** **Planning File** **Accounting**

Clerk of the Board
FILED
KERN COUNTY
NOV 10 2015
MARY B. BEDARD
AUDITOR CONTROLLER-COUNTY CLERK
BY _____ DEPUTY

RECEIVED WITH FEE
RECEIPT# 15131703

NOTICE OF DETERMINATION
(CALIFORNIA ENVIRONMENTAL QUALITY ACT OF 1970)

TO WHOM IT MAY CONCERN:

1. The Board of Supervisors of the County of Kern has approved the following described project in the County of Kern, State of California:

a. Applicant, or Sponsoring Agency or Department: Kern County Planning and Community Development Department; Western States Petroleum Association (WSPA); California Independent Petroleum Association; (CIPA); Independent Oil Producers Agency (IOPA);

b. Name of Project: Revisions to the Kern County Zoning Ordinance – 2015 (C) (Title 19, Kern County Ordinance Code);

c. Street Address/Cross-Street of Project: Countywide

Map of Project (if no street address): Attached

d. Description of Project: Revisions to the Kern County Zoning Ordinance (Title 19, Kern County Ordinance Code); (a) Revisions to the Kern County Zoning Ordinance - 2015(C). Proposed text amendments to various Chapters of Title 19 (Kern County Zoning Ordinance) to implement a new land use approval process for oil and gas exploration, extraction, operations, and production activities. Proposed revisions include, but not limited to, new site development standards and review processes through the following:

(1) Rescinding the "Unrestricted Drilling" Section in Chapter 19.98 and amending the "Drilling by Ministerial Permit" and "Drilling by Conditional Use Permit" Sections;
(2) Adding new "Tier Area" maps to identify scope of existing and future oil and gas activities and type of permit required;
(3) Adding an Oil and Gas Conformity Review and Minor Activity Review, as part of the "Drilling by Ministerial Permit" Section, to ensure compliance with new proposed Implementation Standards and Conditions;
(4) Adding new Implementation Standards and Conditions Section;
(5) Adding requirement for property owner signature on plans with split estate ownership, in some instances;
(6) Revising various Chapters within the Zoning Ordinance to ensure consistency with proposed requirements of Chapter 19.98. These Chapters include:
- 19.08 - Interpretations and General Standards;
- 19.12 - Exclusive Agriculture (A) District;
- 19.14 - Limited Agriculture (A-1) District;
- 19.26 - Mobilehome Park (MP) District;
- 19.38 - Medium Industrial (M-2) District;
- 19.40 - Heavy Industrial (M-3) District;
- 19.44 - Open Space (OS) District;
- 19.46 - Natural Resources (NR) District;
- 19.48 - Drilling Island (DI) District;

Notice of Environmental Document
Posted by County Clerk on 11/10/15
and for 30 days thereafter, Pursuant to
Section 21152(C), Public Resources Code

4679

COPY

- 19.50 - Floodplain Primary District;
- 19.66 - Petroleum Extraction (PE) Combining District;
- 19.81 - Outdoor Lighting (Dark Skies Ordinance);
- 19.88 - Hillside Development;
- 19.102 - Permit Procedures; and
- 19.108 - Nonconforming Uses, Structures, and Lots;

(2) Several sites within the Project Area are listed by CalEPA on the Cortese List, as identified in the DEIR. Draft Environmental Impact Report (http://pcd.kerndsa.com/planning/oil-gas-zoning-amendment)

2. Approval – Summary of Proceedings:

Adoption date November 9, 2015, Item No. 3 9:00 a.m.

3. The Board of Supervisors of the County of Kern has determined that the project in its approved form will have a significant effect on the environment.

4. An Environmental Impact Report (EIR) and a Mitigation Measure Monitoring Program were prepared pursuant to the California Environmental Quality Act of 1970 (CEQA) and the State CEQA Guidelines and was received and considered by the Board and certified as required by section 15090 of the State CEQA Guidelines.

5. Mitigation measures and a Mitigation Measure Monitoring Program were made as conditions of approval of the project. Findings were made pursuant to section 15091 of the State CEQA Guidelines. A Statement of Overriding Considerations was adopted for the project, pursuant to section 15093 of the State CEQA Guidelines.

6. A copy of the EIR may be examined by any interested person during regular business hours at the following location: Kern County Administrative Center, 1115 Truxtun Avenue, Fifth Floor, Bakersfield, California 93301, telephone no. (661) 868-3585.

Dated this 9th day of November, 2015.

This Notice of Determination is filed on November 10, 2015

Kathleen Krause
Clerk of the Board of Supervisors
County of Kern, State of California

Karen L Winn

Telephone No. (661) 868-3600 By: Karen L. Winn, Deputy Clerk

CBM:sc (11/06/15)

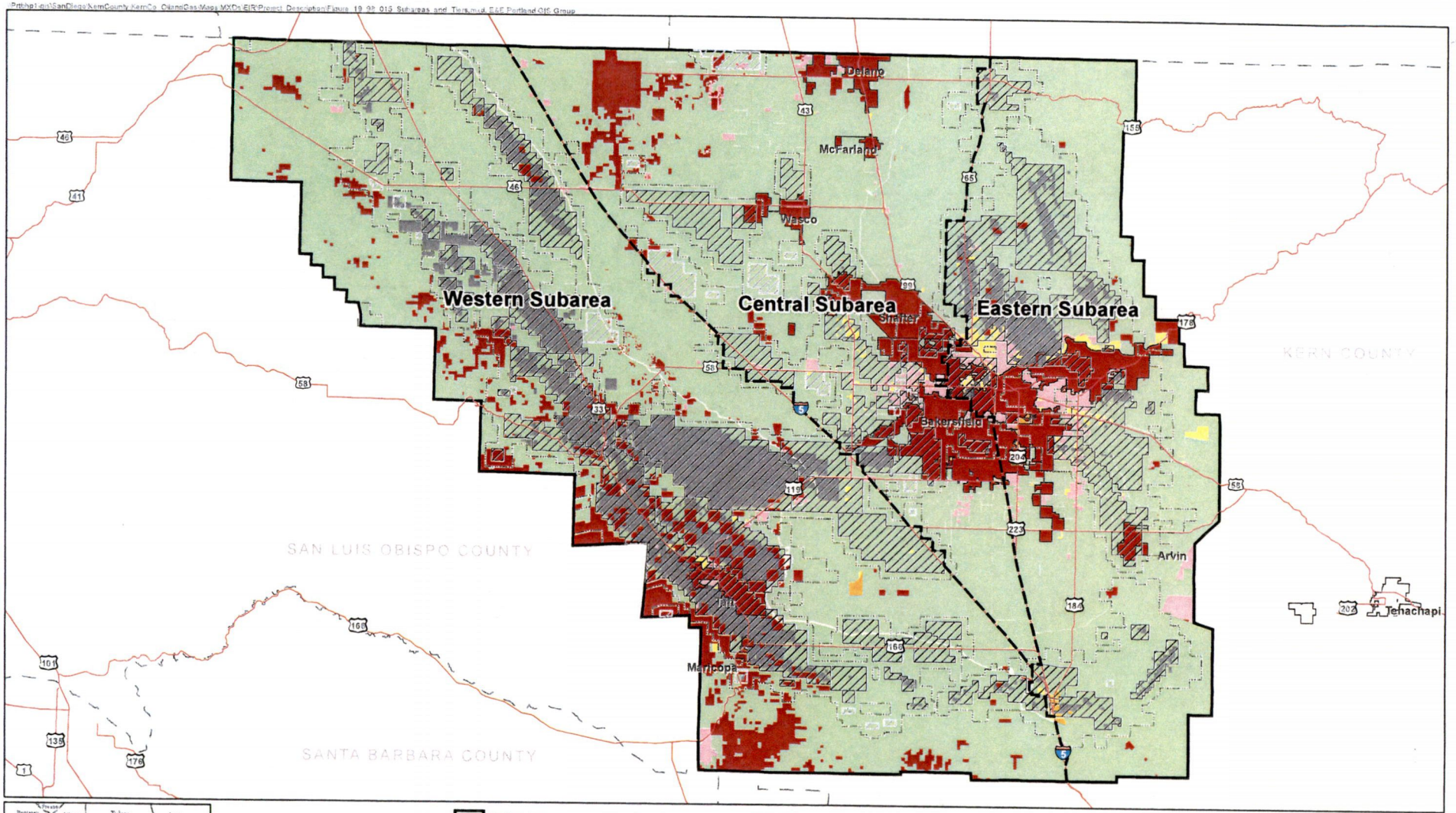
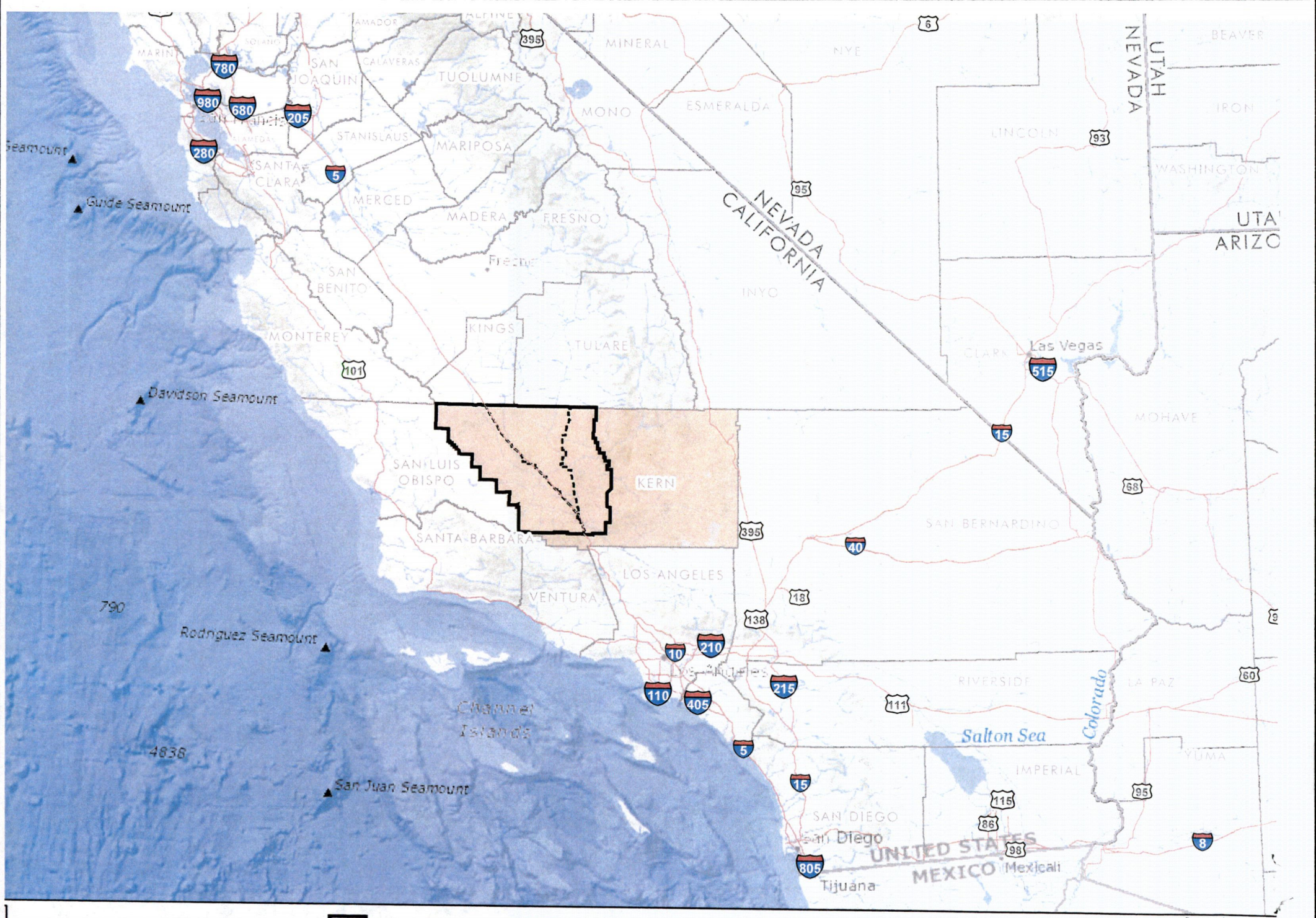


Figure 19.98.015
Oil and Gas Activities Boundary Area

September, 2015


Project Boundary
Subarea
Kern County
Highways
0
50
Service Layer Credi
Sources: Esri, GEBCO, NOAA, National Ge
Guide Seamount
Davidson Seamount
Rodriguez Seamount
San Juan Seamount
790
4838
Channel Islands
Salton Sea
Colorado
Las Vegas
Tijuana
Mexicali
UNITED STATES
MEXICO
NEVADA
CALIFORNIA
UTAH
ARIZO
KERN
MONTEREY
SAN LUIS OBISPO
SANTA BARBARA
VENTURA
LOS ANGELES
SAN BERNARDINO
RIVERSIDE
IMPERIAL
SAN DIEGO
INYO
MONO
MINERAL
NYE
ESMERALDA
LINCOLN
CLARK
MOHAVE
LA PAZ
YUMA
IRON
BEAVER
WASHINGTON
TULARE
KINGS
FRESNO
MADERA
MERCED
MARIPOSA
STANISLAUS
TUOLUMNE
CALAVERAS
AMADOR
SAN BENITO
SANTA CLARA
SAN JOAQUIN
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405
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115
8
805

State of California-Natural Resources Agency
CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE

2015 ENVIRONMENTAL FILING FEE CASH RECEIPT

RECEIPT# 15131703

STATE CLEARING HOUSE # *(If applicable)*

SEE INSTRUCTIONS ON REVERSE. TYPE OR PRINT CLEARLY

LEAD AGENCY	DATE
KERN COUNTY PLANNING AND COMMUNITY DEVELOPMENT DEPT	11/10/2015
COUNTY/STATE AGENCY OF FILING	DOCUMENT NUMBER
Kern	4679

PROJECT TITLE

REVISIONS TO THE KERN COUNTY ZONING ORDINANCE-2015(C)(TITLE 19, KERN COUNTY ORDINANCE CODE)

PROJECT APPLICANT NAME			PHONE NUMBER
KERN COUNTY PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT; WESTERN STATE			(661) 862-8600
PROJECT APPLICANT ADDRESS	CITY	STATE	ZIP CODE
2700 M STREET SUITE 100	BAKERSFIELD	CA	93301

PROJECT APPLICANT *(Check appropriate box):*

☐ Local Public Agency ☐ School District ☐ Other Special District ☐ State Agency ☒ Private Entity

CHECK APPLICABLE FEES:

☒ Environmental Impact Report (EIR)	$3,069.75	$	3,069.75
☐ Mitigated/Negative Declaration (MND)(ND)	$2,210.00	$	0.00
☐ Application Fee Water Diversion *(State Water Resources Control Board only)*	$850.00	$	0.00
☐ Projects Subject to Certified Regulatory Programs (CRP)	$1,043.75	$	
☒ County Administrative Fee	$50.00	$	50.00
☐ Project that is exempt from fees			
☐ Notice of Exemption (attach)			
☐ CDFW No Effect Determination (attach)			
☐ Other _____		$	

PAYMENT METHOD:

☐ Cash ☐ Credit ☐ Check ☒ Other JV TOTAL RECEIVED $ 3,119.75

SIGNATURE	PRINTED NAME AND TITLE
X M Dominguez	M. DOMINGUEZ, OST

ORIGINAL - PROJECT APPLICANT COPY - CDFW/ASB COPY - LEAD AGENCY COPY - COUNTY CLERK FG 753.5a (Rev. 12/14)

SEQUENCE: 523987

COUNTY OF KERN

JV:

FISCAL YEAR: 15-16

INTER-FUND

TOTAL: $6,239.50

DESCRIPTION: CEQA 4679 EIR KCPCD

TRANS CODE	FUND	FUND NAME	DEPT	DIV	REV/EXP	PY	AMOUNT	MEMO
From:								
3602	24010	PLANNING-APPLICANT DEPOSIT TRS	2750		5730		$3,119.75	
To:								
3601	00343	COUNTY CLERKS CLEARING	2116		4681		$50.00	
3601	00343	COUNTY CLERKS CLEARING	2116		4681		$3,069.75	

EXPLANATION OF PURPOSE AND AUTHORITY THEREFOR:

CEQA 4679 ENVIRONMENTAL IMPACT REPORT KC PLANNING AND COMMUNITY DEVELOPMENT DEPT
REVISIONS TO THE KERN COUNTY ZONING ORDINANCE-2015(C)(TITLE 19, KERN COUNTY ORDINANCE CODE)

REFERENCE:

PREPARED BY: MONICA DOMINGUEZ DEPT: 2116 DATE: 11/10/2015 PROCESSED DATE:

Kern County
Clerks Office
1115 Truxtun Ave
Bakersfield CA 93301
661-868-3588

CEQA	
County Clerk Fee	
#4679	1 @ $50.000
	$50.00
NOD w/ EIR	1 @
#4679	$3,069.750
	$3,069.75
Total	**$3,119.75**
JV #523987	$3,119.75
Change	$0.00

ORDER NO: 106752
WALK-IN
11/10/2015 12:07:52 PM
BAKERSFIELD
MONICA DOMINGUEZ

Proof of Posting Form 272 –
Notice of Preparation,
Notice of Availability, and
Environmental Impact Report

CEQA
Transmittal Memorandum

This form must be completed and attached to each CEQA document filed with the County Clerk. Type or print clearly.

1) If notice requires F&G receipt, you must provide at least 3 copies of the document.
2) If notice does not require F&G receipt, you must provide at least 2 copies of the document.

September 24, 2015

LEAD AGENCY: KERN COUNTY PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT

PROJECT TITLE: Draft Environmental Impact Report for Revisions to the Kern County Zoning Ordinance - 2015 C, focused on Oil and Gas Local Permitting

FILED
KERN COUNTY
OCT 29 2015
MARY B. BEDARD
AUDITOR CONTROLLER-COUNTY CLERK
BY _____ DEPUTY

PROJECT APPLICANT: Kern County Planning and Community Development Department

PHONE NUMBER: (661) 862-8600

PROJECT APPLICANT ADDRESS: 2700 "M" Street, Suite #100

CITY: Bakersfield STATE: California ZIP CODE: 93301

WORK ORDER # PP13016 ☐ 30-Day Posting ☒ 45-Day Posting

CONTACT PERSON: Christopher B. Mynk, AICP, Supervising Planner ((661) 862-8607)

CHECK DOCUMENT BEING FILED:

☐ Notice of Preparation	No Fee
☐ Notice of Availability	No Fee
☐ Notice of Public Hearing	No Fee
■ Other Notice - Final Oil & Gas EIR	No Fee
☐ Environmental Impact Report (EIR)	$3029.75
☐ Previously paid (**must attach receipt**) Receipt Number#_____	
☐ DFG No Effect Determination (**F&G letter must be attached**)	No Fee
☐ County Administrative Fee	$50.00
☐ Mitigated Negative Declaration or Negative Declaration	$2181.25
☐ Previously paid (**must attach receipt**) Receipt Number#_____	
☐ DFG No Effect Determination (**F&G letter must be attached**)	No Fee
☐ County Administrative Fee	$50.00
☐ Notice of Exemption	No Fee
☐ County Administrative Fee	$50.00

TOTAL $0.00

PAYMENT METHOD: ALL APPLICABLE FEES MUST BE PAID AT THE TIME OF FILING

☐ Cash/Money Order ☐ Check ☐ Credit Card ■ JV (must complete below)

Dept #2750
Fund #24010
Expense Key_____

CBM:sc (09/24/15)
I:\WP\MISC\272-oil and gas3.docx

Send copy to: **County Clerk** **Planning File** **Accounting**

46060

FILED
KERN COUNTY

OCT 29 2015

MARY B. BEDARD
AUDITOR CONTROLLER-COUNTY CLERK
BY _____ DEPUTY

Chapter 12
Final Environmental Impact Report Consolidation

SCH# *2013081079*

Volume 5

REVISIONS to the KERN COUNTY ZONING ORDINANCE – 2015 (C)
Focused on Oil and Gas Local Permitting

Kern County
Planning and Community Development Department
Bakersfield, California

Notice of Environmental Document
Posted by County Clerk on 10/29/15
and for 30 days thereafter, Pursuant to
Section 21152(C), Public Resources Code

November 2015

4640

FILED
KERN COUNTY

SEP 24 2015

MARY B. BEDARD
AUDITOR CONTROLLER-COUNTY CLERK
BY _____ DEPUTY

CEQA
Transmittal Memorandum

This form must be completed and attached to each CEQA document filed with the County Clerk. Type or print clearly.

1) If notice requires F&G receipt, you must provide at least 3 copies of the document.

2) If notice does not require F&G receipt, you must provide at least 2 copies of the document.

September 24, 2015

LEAD AGENCY: KERN COUNTY PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT

PROJECT TITLE: Draft Environmental Impact Report for Revisions to the Kern County Zoning Ordinance - 2015 C, focused on Oil and Gas Local Permitting

PROJECT APPLICANT: Kern County Planning and Community Development Department

PHONE NUMBER: (661) 862-8600

PROJECT APPLICANT ADDRESS: 2700 "M" Street, Suite #100

CITY: Bakersfield STATE: California ZIP CODE: 93301

WORK ORDER # PP13016 ☐ 30-Day Posting ☒ 45-Day Posting

CONTACT PERSON: Christopher B. Mynk, AICP, Supervising Planner ((661) 862-8607)

CHECK DOCUMENT BEING FILED:

☐ Notice of Preparation	No Fee
☐ Notice of Availability	No Fee
☐ Notice of Public Hearing	No Fee
■ Other Notice - Final Oil & Gas EIR	No Fee
☐ Environmental Impact Report (EIR)	$3029.75
☐ Previously paid (**must attach receipt**) Receipt Number#_____	
☐ DFG No Effect Determination (**F&G letter must be attached**)	No Fee
☐ County Administrative Fee	$50.00
☐ Mitigated Negative Declaration or Negative Declaration	$2181.25
☐ Previously paid (**must attach receipt**) Receipt Number#_____	
☐ DFG No Effect Determination (**F&G letter must be attached**)	No Fee
☐ County Administrative Fee	$50.00
☐ Notice of Exemption	No Fee
☐ County Administrative Fee	$50.00

TOTAL $0.00

PAYMENT METHOD: ALL APPLICABLE FEES MUST BE PAID AT THE TIME OF FILING

☐ Cash/Money Order ☐ Check ☐ Credit Card ■ JV (must complete below)

Dept #2750
Fund #24010
Expense Key_____

CBM:sc (09/24/15)
I:\WP\MISC\272-oil and gas3.docx

Send copy to: **County Clerk** **Planning File** **Accounting**

4580

FILED
KERN COUNTY

SEP 24 2015

MARY B. BEDARD
AUDITOR CONTROLLER-COUNTY CLERK
BY _____ DEPUTY

Chapter 7
Responses to Comments

SCH# *2013081079*

Volume 3

REVISIONS to the KERN COUNTY ZONING ORDINANCE – 2015 (C)
Focused on Oil and Gas Local Permitting

Kern County
Planning and Community Development Department
Bakersfield, California

Notice of Environmental Document
Posted by County Clerk on 9/24/15
and for 30 days thereafter, Pursuant to
Section 21152(C), Public Resources Code

September 2015

4580

CEQA
Transmittal Memorandum

This form must be completed and attached to each CEQA document filed with the County Clerk. Type or print clearly.
1) If notice requires F&G receipt, you must provide at least 3 copies of the document.
2) If notice does not require F&G receipt, you must provide at least 2 copies of the document.

July 29, 2015

LEAD AGENCY: KERN COUNTY PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT

PROJECT TITLE: Draft Environmental Impact Report for Revisions to the Kern County Zoning Ordinance - 2015 C, focused Oil and Gas Local Permitting

PROJECT APPLICANT: Kern County Planning and Community Development Department

PHONE NUMBER: (661) 862-8600

PROJECT APPLICANT ADDRESS: 2700 "M" Street, Suite #100

CITY: Bakersfield STATE: California ZIP CODE: 93301

FILED
KERN COUNTY
JUL 29 2015
MARY B. BEDARD
AUDITOR CONTROLLER-COUNTY CLE
BY _____ DEPU

WORK ORDER # PP13016 ☐ 30-Day Posting ☒ 45-Day Posting

CONTACT PERSON: Christopher B. Mynk, AICP, Supervising Planner ((661) 862-8607)

CHECK DOCUMENT BEING FILED:

☐ Notice of Preparation	No Fee
☒ Notice of Availability	No Fee
☐ Notice of Public Hearing	No Fee
☐ Other Notice _____	No Fee
☐ Environmental Impact Report (EIR)	$3029.75
☐ Previously paid (**must attach receipt**) Receipt Number#_____	
☐ DFG No Effect Determination (**F&G letter must be attached**)	No Fee
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☐ Previously paid (**must attach receipt**) Receipt Number#_____	
☐ DFG No Effect Determination (**F&G letter must be attached**)	No Fee
☐ County Administrative Fee	$50.00
☐ Notice of Exemption	No Fee
☐ County Administrative Fee	$50.00

TOTAL $0.00

PAYMENT METHOD: ALL APPLICABLE FEES MUST BE PAID AT THE TIME OF FILING

☐ Cash/Money Order ☐ Check ☐ Credit Card ■ JV (must complete below)

Dept #2750
Fund #24010
Expense Key_____

CBM: dr (07/29/15)
I:\WP\MISC\272-oil and gas2.docx

Send copy to: **County Clerk** **Planning File** **Accounting**

4457

FILED
KERN COUNTY

JUL 08 2015

MARY B. BEDARD
AUDITOR CONTROLLER-COUNTY CLERK
BY S.H. DEPUTY

Draft Environmental Impact Report

SCH# 2013081079

Volume 1
Chapters 1 through 11

REVISIONS to the KERN COUNTY ZONING ORDINANCE – 2015 (C)
Focused on Oil and Gas Local Permitting

Kern County
Planning and Community Development Department
Bakersfield, California

Notice of Environmental Document
Posted by County Clerk on 07/08/15
and for 30 days thereafter, Pursuant to
Section 21152(C), Public Resources Code

July 2015

4419

Lorelei H. Oviatt, AICP, Director
2700 "M" Street, Suite 100
Bakersfield, CA 93301-2323
Phone: (661) 862-8600
Fax: (661) 862-8601 TTY Relay 1-800-735-2929
Email: planning@co.kern.ca.us
Web Address: http://pcd.kerndsa.com/

PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT

Planning
Community Development
Administrative Operations

FILED
KERN COUNTY

JUL 29 2015

MARY B. BEDARD
AUDITOR CONTROLLER-COUNTY CLERK
BY _____ DEPUTY

July 29, 2015

ADDRESSEE LIST

RE: Draft Environmental Impact Report for Revisions to the Kern County Zoning Ordinance – 2015 C, focused on Oil and Gas Local Permitting (COMMENT PERIOD EXTENSION)

Dear Interested Party,

The County of Kern will be extending the comment period of the above referenced DEIR from the original date of August 24, 2015 to **September 11, 2015**. Also, attached is a revised Notice of Availability reflecting revisions to the comment period. Please be advised the scheduled hearing date of October 5, 2015 at 5:00 PM, before the Kern County Planning Commission, has not changed. The Public hearing will be held at the Chambers of the Board of Supervisors, First Floor, Kern County Administrative Center, 1115 Truxtun Avenue, Bakersfield, California.

Comments can be also be submitted at one of our additional public workshops that will be held at **6:00 p.m.** at the following locations and dates:

Shafter Veterans Building, Room 2, 309 California Avenue, Shafter CA	**August 10, 2015**
Taft Veterans Hall, Room 1, 218 Taylor Street, Taft, CA	**August 17, 2015**

If you have any questions regarding this matter or would like to submit comment, please contact me directly at (661) 862-8607 or by email at MynkC@co.kern.ca.us.

Sincerely,

Christopher B. Mynk, AICP
Supervising Planner

Notice of Environmental Document
Posted by County Clerk on 7/29/15
and for 45 days thereafter, Pursuant to
Section 21152(C). Public Resources Code

REVISED
DRAFT ENVIRONMENTAL IMPACT REPORT
NOTICE OF AVAILABILITY FOR PUBLIC REVIEW

This is to advise that the Kern County Planning and Community Development Department has prepared an Environmental Impact Report (EIR) for the project identified below. The document and documents referenced in the Draft EIR are available for review at the Planning and Community Development Department, 2700 "M" Street, Suite 100, Bakersfield, CA 93301 or on the Departmental website (**http://pcd.kerndsa.com/planning/oil-gas-zoning-amendment**).

The Kern County Planning and Community Development Department will host a joint public briefing workshop with the Kern County Board of Supervisors and the Kern County Planning Commission to receive comments on the document on: **July 27, 2015** at 9:00 a.m., at the Chambers of the Board of Supervisors, First Floor, Kern County Administrative Center, 1115 Truxtun Avenue, Bakersfield, California.

Comments can be also be submitted at one of our additional public workshops that will be held at **6:00 p.m.** at the following locations and dates:

Shafter Veterans Building, Room 2, 309 California Avenue, Shafter CA	**August 10, 2015**
Taft Veterans Hall, Room 1, 218 Taylor Street, Taft, CA	**August 17, 2015**

A public hearing has been scheduled with the Kern County Planning Commission to receive comments on the document on: **October 5, 2015** at 5:00 p.m or soon thereafter, Chambers of the Board of Supervisors, First Floor, Kern County Administrative Center, 1115 Truxtun Avenue, Bakersfield, California.

The comment period for this document closes on **September 11, 2015**. Testimony at future public hearings may be limited to those issues raised during the public review period either orally or submitted in writing by 5:00 p.m. the day the comment period closes.

Project Title: Draft Environmental Impact Report for Revisions to the Kern County Zoning Ordinance – 2015 C, focused on Oil and Gas Local Permitting.

Project Location: The Project Boundary (Local Permitting Boundary Area) encompasses 3,110 square miles and generally includes the San Joaquin Valley Floor portion of Kern County up to an elevation of 2,000 feet. The boundary includes: west side-the San Luis Obispo County line, north side- the Kings and Tulare county lines, east and south sides-the 2,000-foot elevation contours, squared off to the nearest section line.

Project Description: The proposed Project consists of revisions to various Chapters of Title 19 Kern County Zoning Ordinance to implement a new permit process for oil and gas activities. The revisions include new site development standards and review processes for all oil and gas exploration, extraction, operations, and production activities in unincorporated Kern County by:

(a) Removing the "Unrestricted Drilling" Section in Chapter 19.98 and updated "Drilling by Ministerial Permit" and "Drilling by Conditional Use Permit" Sections;

(b) Establishing a new "Tier Area" maps to address different land uses and zone districts where oil and gas activities occur and are proposed to occur in the future;

(c) Establishing an Oil and Gas Conformity Review and Minor Activity Review, as part of the "Drilling by Ministerial Permit" Section in Chapter 19.98, to ensure compliance with all applicable Development and Implementation Standards and Conditions;

(d) Establishing new Development and Implementation Standards and Conditions Section in Chapter 19.98;

(e) Establishing new requirements for site plan sign-off by owners of the surface and minerals for split estate ownership;

Revising additional Chapters of the Zoning Ordinance to ensure consistency with the new requirements of this EIR. These Chapters include: 19.08 – Interpretations and General Standards, 19.48 – Drilling Island (DI) District, 19.50 – Floodplain Primary District, 19.66 – Petroleum Extraction (PE) Combining District, 19.81 - Outdoor Lighting (Dark Skies Ordinance), 19.88 – Hillside Development, 19.102 – Permit Procedures, and 19.108 – Nonconforming Uses, Structures, and Lots;

(f) Several sites within the Project Area are listed by CalEPA on the Cortese List, as identified in the DEIR.

Anticipated Significant Impacts on Environment: Aesthetics, Agricultural Resources, Air Quality; Biological Resources; Cultural Resources, Greenhouse Gas, Energy, Hydrology and Water Quality, and Utilities and Services

Document can be viewed online at: http://pcd.kerndsa.com/planning/oil-gas-zoning-amendment

For further information, please contact: Christopher B. Mynk, AICP Supervising Planner at (661) 862-8607 or MynkC@co.kern.ca.us

AMERICANS WITH DISABILITIES ACT
(Government Code Section 54953.2)

Disabled individuals who need special assistance to attend or participate in a meeting of the Kern County Planning Commission may request assistance at the Kern County Planning and Community Development Department, 2700 "M" Street, Suite 100, Bakersfield, California 93301, or by calling Allison Molina at (661) 862-8615. Every effort will be made to reasonably accommodate individuals with disabilities by making meeting materials available in alternative formats. Requests for assistance should be made five (5) working days in advance whenever possible.

Lorelei H. Oviatt

LORELEI OVIATT, AICP, Director
Planning and Community Development Department

To be published once only on next available date and as soon as possible

The Bakersfield Californian
Daily Independent
Kern Valley Sun
Mojave Desert News
Tehachapi News
Rosamond Weekly News
Daily Midway Driller

CBM

cc: County Clerk (2) (with fee)
All Supervisorial Distric
Environmental Status Board
Planning Commissioner

Summary of Proceedings

SUMMARY OF PROCEEDINGS

BOARD OF SUPERVISORS - COUNTY OF KERN

1115 Truxtun Avenue
Bakersfield, California

Special Meeting
Monday, November 9, 2015

9:00 A.M.

Note: Members of the Board of Supervisors may have an interest in certain contracts that the Board considers where the member holds a position on a non-profit corporation that supports the functions of the County. Supervisors are assigned to these positions as part of annual committee assignments by the Chairman of the Board. These interests include, with the Supervisor holding the position, the following: California State Association of Counties (Supervisors Perez and Gleason); Community Action Partnership of Kern (Supervisor Maggard); Kern County Network for Children (Supervisor Gleason); Kern Economic Development Corporation (Supervisors Maggard, Scrivner, and Perez); Southern California Water Committee (Supervisors Couch and Maggard); and Tobacco Funding Corporation, Kern County (Supervisors Couch and Perez).

BOARD RECONVENED

Supervisors: Gleason, Scrivner, Maggard, Couch, Perez
ROLL CALL: All Present

SALUTE TO FLAG - Led by County Administrative Officer John Nilon

NOTE: The vote is displayed in bold below each item. For example, Gleason-Perez denotes Supervisor Gleason made the motion and Supervisor Perez seconded the motion.

CONSENT AGENDA/OPPORTUNITY FOR PUBLIC COMMENT: ALL ITEMS LISTED WITH A "CA" OR "C" WERE CONSIDERED TO BE ROUTINE AND APPROVED BY ONE MOTION.

BOARD ACTION SHOWN IN CAPS

PUBLIC PRESENTATIONS

1) This portion of the meeting is reserved for persons to address the Board on any matter not on this agenda but under the jurisdiction of the Board. Board members may respond briefly to statements made or questions posed. They may ask a question for clarification, make a referral to staff for factual information or request staff to report back to the Board at a later meeting. Also, the Board may take action to direct the staff to place a matter of business on a future agenda. SPEAKERS ARE LIMITED TO TWO MINUTES. PLEASE STATE AND SPELL YOUR NAME BEFORE MAKING YOUR PRESENTATION. THANK YOU!

   DAVID FLUHART, REPRESENTING CFD THINK TANK CLUB HEARD REGARDING CURRENT ISSUES

BOARD MEMBER ANNOUNCEMENTS OR REPORTS

2) On their own initiative, Board members may make an announcement or a report on their own activities. They may ask a question for clarification, make a referral to staff or take action to have staff place a matter of business on a future agenda (Gov. Code Sec. 54954.2[a])
SUPERVISOR GLEASON HEARD REGARDING THE WASCO VS. SHAFTER HIGH SCHOOL FOOTBALL GAME, AND ALSO ACKNOWLEDGED VETERANS DAY ON NOVEMBER 11 AND ENCOURAGED EVERYONE TO THANK OUR VETERANS

HEARING

PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT

3) **Request from Kern County Planning and Community Development Department; Western States Petroleum Association (WSPA); California Independent Petroleum Association (CIPA); and Independent Oil Producers Agency (IOPA)**
(1) Revisions to the Kern County Zoning Ordinance - 2015(C). Proposed text amendments to various Chapters of Title 19 (Kern County Zoning Ordinance) to implement a new land use approval process for oil and gas exploration, extraction, operations, and production activities. Proposed revisions include, but not limited to, new site development standards and review processes through the following: (a) Rescinding the "Unrestricted Drilling" Section in Chapter 19.98 and amending the "Drilling by Ministerial Permit" and "Drilling by Conditional Use Permit" Sections; (b) Adding new "Tier Area" maps to identify scope of existing and future oil and gas activities and type of permit required; (c) Adding an Oil and Gas Conformity Review and Minor Activity Review, as part of the "Drilling by Ministerial Permit" Section, to ensure compliance with new proposed Implementation Standards and Conditions; (d) Adding new Implementation Standards and Conditions Section; (e) Adding requirement for property owner signature on plans with split estate ownership, in some instances; and (f) Revising various Chapters within the Zoning Ordinance to ensure consistency with proposed requirements of Chapter 19.98. These Chapters include:

. 19.08 - Interpretations and General Standards;
. 19.12 - Exclusive Agriculture (A) District;
. 19.14 - Limited Agriculture (A-1) District;
. 19.26 - Mobilehome Park (MP) District;
. 19.38 - Medium Industrial (M-2) District;
. 19.40 - Heavy Industrial (M-3) District;
. 19.44 - Open Space (OS) District;
. 19.46 - Natural Resources (NR) District;
. 19.48 - Drilling Island (DI) District;
. 19.50 - Floodplain Primary District;
. 19.66 - Petroleum Extraction (PE) Combining District;
. 19.81 - Outdoor Lighting (Dark Skies Ordinance);
. 19.88 - Hillside Development;
. 19.102 - Permit Procedures; and
. 19.108 - Nonconforming Uses, Structures, and Lots;

(2) Several sites within the Project Area are listed by CalEPA on the Cortese List, as identified in the Final Environmental Impact Report (http://pcd.kerndsa.com/planning/oil-gas-zoning-amendment) on 2.3 million acres located Countywide
(3) Consider Final Environmental Impact Report including: proposed Findings of Fact pursuant to CEQA Guidelines Section 15091; proposed Statements of Overriding Considerations pursuant to CEQA Guidelines Section 15093; and, proposed Mitigation Monitoring and Reporting Program (All S.D.s)

(Continued on Page 3)

(Continued from Page 2)

(Environmental Review: Environmental Impact Report; Published Bakersfield Californian; Daily Independent; Kern Valley Sun; Mojave Desert News; Tehachapi News; Rosamond Weekly News; Daily Midway Driller) - CHAIRMAN COUCH ANNOUNCED THE AVAILABILITY OF SPANISH/ENGLISH INTERPRETATION AND INTRODUCED INTERPRETER FERNANDO LOPEZ; OPENED HEARING; SUZANNE NOBLE, REPRESENTING THE APPLICANT, HEARD; HEARD IN OPPOSITION: SUSIE SNEDDEN, KERN COUNTY CATTLEMEN'S ASSOCIATION; GORDON NIPP, REPRESENTING THE SIERRA CLUB AND EARTHJUSTICE; VICTORIA GOLDEN; TOM FRANTZ, ASSOCIATION OF IRRITATED RESIDENTS; TRUDY DOUGLAS; HEATHER MINNER, REPRESENTING PACIFIC AG MANAGEMENT AND KING AND GARDINER FARMS; CHRIS ROMANINI; JENNY HOLTERMANN; HOLLY KING, COMMITTEE TO PROTECT FARMLAND AND CLEAN WATER; EVA NIPP; MARION VARGAS; MARY LYNN BRIGGS; WENDY LAUGHLIN; DAVID CAMPBELL; GUSTAVO AGUIRRE, JR., CENTRAL CALIFORNIA ENVIRONMENTAL JUSTICE NETWORK; DR. ROSANNA ESPARZA, CLEAN WATER ACTION; SHARON BRIEL; CATHERINE KING; ANN GALLON; MAR PRESTON; TODD TURLEY, SOUTH VALLEY FARMS; LINDA ROBREDO; LUCY CLARK; SARAH ATSBAHA, NATURAL RESOURCES DEFENSE COUNCIL; DINAH CAMPBELL; TODD SHUMAN, CITIZENS FOR RESPONSIBLE OIL AND GAS; ARA MARDEROSIAN, SEQUOIA FOREST KEEPER; LARRY MOXLEY, COMMITTEE TO PROTECT FARMLAND AND CLEAN WATER; AND KEN HUNTER, VAQUERO ENERGY

RECESSED FOR ONE HOUR

RECONVENED WITH ALL BOARD MEMBERS PRESENT

HEARD IN SUPPORT: JOE SMITH, LOCAL UNION 460 PLUMBERS AND PIPE FITTERS; HUGH MCMAHON, TEJON RANCH COMPANY; TRICE HARVEY; CHRISTINA SISTRUNK, AERA ENERGY; BEATRIS SANDERS, KERN COUNTY FARM BUREAU; COUNCILMEMBER WILLIE RIVERA, CITY OF BAKERSFIELD; RYAN NANCE, CARPENTERS LOCAL 743; ROBERT BARNES, CALIFORNIA RESOURCES CORPORATIONS; COLLEEN MCGAULEY, COURT APPOINTED SPECIAL ADVOCATES; RON JAMES, OPERATING ENGINEERS LOCAL 12; JULIE BELL, KERN CITIZENS FOR ENERGY; GRETA LYDECKER, CHEVRON; ROBIN BRASSFIELD-COOPER, ROBIN'S ENVIRO VAC; EDWARD ARAMBULA, LOCAL 460 PIPE FITTERS UNION; RICKI PEACE, BOYS AND GIRLS CLUBS OF KERN COUNTY; NICK ORTIZ, GREATER BAKERSFIELD CHAMBER OF COMMERCE; JAY TAMSI, KERN COUNTY HISPANIC CHAMBER OF COMMERCE; TOMEKA POWELL, KERN COUNTY BLACK CHAMBER OF COMMERCE; RUSSELL JOHNSON, ASSOCIATED BUILDERS AND CONTRACTORS; RICHARD CHAPMAN, KERN ECONOMIC DEVELOPMENT CORPORATION; MAYOR RANDY MILLER, CITY OF TAFT; DAVE NOERR; WILL SCOTT, SHEET METAL WORKERS LOCAL 105 APPRENTICESHIP PROGRAM; NATHANIEL JONES; CHRIS GONZALES; JOHN SPAULDING, BUILDING TRADES COUNCIL; JERRY MELSON, INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS (IBEW), NECA ELECTRICAL APPRENTICESHIP PROGRAM; JOSE LEOS; JASON DIXON, BAKERSFIELD COLLEGE; JIM ELROD, IBEW LOCAL 428; KEITH PICKETT; LES CLARK, INDEPENDENT OIL PRODUCERS AGENCY; JACK LAVERS, KERN COUNTY CATTLEMEN'S

(Continued on Page 4)

(Continued from Page 3)

ASSOCIATION; MARVIN ST. PIERRE; MICHAEL TURNIPSEED, KERN COUNTY TAXPAYERS ASSOCIATION; JOSEPH SUMLIN, TEAMSTERS LOCAL 87; BRIDGET BEARD; JOE NAHAMA, PETRO ROCK; KERRIE ROBERTS; STEVE TOWNSEND; AND BLAIR KNOX, CALIFORNIA INDEPENDENT PETROLEUM ASSOCIATION; CLOSED HEARING

RECESSED FOR 35 MINUTES

RECONVENED WITH ALL BOARD MEMBERS PRESENT

IN ACCORDANCE WITH THE RECOMMENDATIONS FROM PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT AND THE PLANNING COMMISSION, ADOPTED RESOLUTION 2015-298 WHICH ADOPTED RECOMMENDED FINDINGS, CERTIFIED FINAL ENVIRONMENTAL IMPACT REPORT, ADOPTED SECTION 15091 FINDINGS OF FACT, ADOPTED SECTION 15093 STATEMENT OF OVERRIDING CONSIDERATIONS, AND ADOPTED MITIGATION MONITORING AND REPORTING PROGRAM; ENACTED ORDINANCE G-8605 REVISING AND AMENDING PORTIONS OF TITLE 19 OF THE KERN COUNTY ORDINANCE CODE AS RECOMMENDED BY STAFF, AND READ INTO THE RECORD TO AMEND SECTION 19.98.085 H (1) OIL AND GAS CONFORMITY REVIEW AND CONDITIONAL USE PERMIT – APPLICATION CONTENTS (TIERS 2-5) AND 19.98.085 H (2), OIL AND GAS CONFORMITY REVIEW AND CONDITIONAL USE PERMIT – APPLICATION CONTENTS (TIERS 2-5), AND SECTION 19.98.140 – INSPECTION COMPLIANCE; AND REFERRED TO PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT TO RETURN TO THE BOARD WITH A PROGRAM IMPLEMENTATION STATUS UPDATE WITHIN ONE YEAR

Maggard-Scrivner: All Ayes

ADJOURNED TO TUESDAY, NOVEMBER 10, 2015, AT 9:00 A.M.

Perez

Kathleen Krause
Clerk of the Board

David Couch
Chairman, Board of Supervisors

BOARD OF SUPERVISORS
KERN COUNTY, CA

Chapter 12

Final Environmental Impact Report Consolidation

SCH# 2013081079

REVISIONS to the KERN COUNTY ZONING ORDINANCE – 2015 (C)
Focused on Oil and Gas Local Permitting

Kern County Planning and Community Development Department
2700 M Street, Suite 100
Bakersfield, CA 93301-2370
(661) 862-8600

Technical Assistance by:
Ecology and Environment, Inc.
401 West A Street, Suite 775
San Diego, CA 92101
(619) 696-0578

November 2015

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Chapter 12

Final Environmental Impact Report Consolidation

12.1 Introduction

12.1.1 Purpose and Format of Final Environmental Impact Report Consolidation

This *Chapter 12*, *Final Impact Report Consolidation* (i.e., Volume 5 of the *Final Environmental Impact Report for the Revisions to the Kern County Zoning Ordinance - 2015 (C) Focused on Oil and Gas Local Permitting*) has been prepared to improve its ease of use by the public and by Kern County decision makers when considering approval of the proposed Project. This Chapter 12 has also been prepared to improve its ease of use by Kern County staff when considering and administering implementation of the proposed Project.

In Section 12.1.2, this *Chapter 12* contains the text of the amended zoning ordinance as it is proposed by staff for consideration by the Kern County Board of Supervisors ("Proposed Ordinance"). Section 12.1.3 contains the final proposed set of mitigation measures from this Environmental Impact Report, also as proposed by staff to the Board.

In Section 12.2, this *Chapter 12* consolidates clarifications, amplifications, and insignificant modifications to the DEIR Volumes 1 and 2 that are described in *Chapter 7, Responses to Comments* (Volume 3 of the Final EIR). All such DEIR revisions are set forth below in *Section 12.2, Text of Revisions to the EIR Described in Chapter 7*.

This *Chapter 12* also consolidates all written comments received by County after the DEIR comment period. Specifically, *Section 12.3, Responses to Written Comments Received after the DEIR Comment Period* consolidates all written comments on the DEIR and *Chapter 7* that have been received by the County since close of the DEIR public comment period on September 11, 2015. Much of this information was previously provided to the public in the Staff Report, and addendum thereto, prepared for the Kern County Planning Commission's October 5, 2015 public hearing on the Project. Following the Planning Commission's October 5 hearing on the Project, the County received additional late written comments, all of which are included in *Section 12.3*, along with the County's responses thereto.

Finally, this *Chapter 12* consolidates staff-initiated clarifications, amplifications, and insignificant modifications to EIR Volumes 1, 2, and 3, that were made following the September 25, 2015 publication of *Volume 3, Chapter 7, Responses to Comments*. All such revisions are set forth below in *Section 12.4, Staff-Initiated Revisions to the EIR Following Publication of Chapter 7*.

Additional information regarding the content of *Section 12.4* is provided below in *Subsection 12.4.1, Introduction*.

With respect to all EIR text revisions described in this Chapter 12, to assist the reader, added text is shown in underline and all deleted text is shown in ~~strikethrough~~.

12.1.2 Proposed Ordinance

Volume 1 of the EIR, Chapters 1 and 3, contains the text of the Amended Ordinance, as it was proposed at the time of publication of the DEIR. As described in Volume 3, Section 7.1.3 of the EIR, the County subsequently revised the Amended Ordinance based on comments from the public and further internal policy discussions.

The County has further revised the Ordinance based on further internal policy discussions. The physical activities that are regulated by the Proposed Ordinance have not changed, and thus the ordinance implementation activities that are considered in the EIR have not changed. Clarifications and other modifications do not authorize any new activity that was not allowed under the Amended Ordinance, and impose new restrictions on some activities (e.g., restrictions designed to encourage the appropriate resolution of issues related to idle wells). The Proposed Ordinance does not itself create, or allow through activities regulated under this ordinance to create, any new or worse significant impact than those considered in the EIR.

The Proposed Ordinance, as it is presented for consideration by the Board of Supervisors, is included in its entirety beginning on the following page. This version of the Proposed Ordinance highlights certain proposed staff-initiated revisions proposed after the Kern County Planning Commission recommended appproval of the Project to the Board of Supervisors at the Planning Commission's October 5, 2015 hearing.

It should be noted that consistent with County practice and zoning laws, County staff and the Board of Supervisors will review – and may make further changes to – this Proposed Ordinance. Approval of amended Ordinances is a legislative decision of the Board of Supervisors.

Subsequent modifications to the Proposed Ordinance will continue to be evaluated to assure ongoing CEQA compliance.

REVISED AMENDED DRAFT (11/9/2015)

C H A P T E R 19.98

OIL AND GAS ACTIVITIES

SECTIONS:

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19.98.010 PURPOSE AND APPLICATION

The purpose of this chapter is to promote the economic and streamlined recovery of oil, gas, and other hydrocarbon substances in a manner compatible with surrounding land uses and protection of the public health and safety by establishing reasonable limitations, safeguards, and controls on exploration, drilling, and production of hydrocarbon resources. The procedures and standards contained in this chapter shall apply to all exploration drilling and production activities related to oil, gas, and other hydrocarbon substances carried out within the unincorporated San Joaquin Valley portion of Kern County (See Figure 19.98.015). This effective date of this version of Chapter 19.98 is MONTH, DAY, YEAR.

19.98.020 DEFINITIONS OF OIL AND GAS PRODUCTION ACTIVITIES

Oil and Gas exploration and operations contain many highly technical activities. For the purposes of this Chapter 19.98, definitions of activities are located throughout the Chapter, were

applicable. Unless otherwise indicated in this Chapter, the definitions in Chapter 19.04 remain applicable.

19.98.030 OIL AND GAS PRODUCTION BOUNDARY AREA AND TIER AREAS

Oil and Gas production in Kern County occurs within the portion of Kern County depicted in Figure 19.98.015. This Oil and Gas Activities Boundary Area is divided into five (5) Tier Areas and depicted in Figure 19.98.015. Changes to the Oil and Gas Production Boundary Area and Tier boundaries of Figure 19.98.015 shall be through the procedures in Chapter 19.112.

The Tier Areas were designated based on the following land use planning considerations:

A. Tier 1 Area is defined as all areas in which oil and gas activity is the primary land use. The existing well and activity densities preclude almost all other uses except for passive uses such as grazing.

B. Tier 2 Area is defined as all areas that ~~is~~ are classified Exclusive Agriculture (A) or Limited Agriculture (A-1) Districts, have agriculture as the primary surface land use, and are not included in Tier 1.

C. Tier 3 Area is defined as other areas not within a Tier 1 Area that are located in one of the following zone districts:

- Natural Resource (NR)
- Recreation Forestry (RF)
- Light Industrial (M-1)
- Medium Industrial (M-2)
- Heavy Industrial (M-3)
- Floodplain Primary (FPP)
- Drilling Island (DI)
- Zone Districts that have the Petroleum Extraction (PE) Combining District

D. Tier 4 Area is defined as areas not within Tier 1, 2, or 3, that include at least one of the following zone districts:

- Estate (E)
- Low–Density Residential (R-1)
- Medium-Density Residential (R-2)
- High-Density Residential (R-3)
- Commercial Office (CO)
- Neighborhood Commercial (C-1)
- General Commercial (C-2)
- Highway Commercial (CH)
- Open Space (OS)
- Platted Lands (PL)
- Mobilehome Park (MP)

Authorized oil and gas activities in Tier 4 are subject to approval of a conditional use permit in accordance with 19.104 of this Title.

E. Tier 5 are areas including all current and future Specific Plan boundaries either adopted with a Special Planning (SP) District or which include specific provisions for oil and gas operations. Oil or gas exploration and production activities would be allowed with a conditional use permit or as permitted by the regulations contained within the adopted Specific Plan in Tier 5 areas.

F. All other areas not defined as Tier 1-5 Areas within the Oil and Gas Production Area are considered Non-Jurisdictional because they are not within the jurisdiction of Kern County. Including land owned by the United States, State of California or land within an incorporated city are exempt, unless under the authority of a written agreement with the Board of Supervisors. The regulations set forth in this chapter pertain only to accessory structures, facilities or uses that are physically connected to, provide access or services to, or otherwise support, oil and gas activities in these Non-Jurisdictional Areas.

19.98.040 OIL AND GAS ACTIVITIES BY MINISTERIAL PERMIT

A. No well for use as an injection well and no well for the exploration for or development or production of oil or gas or other hydrocarbon substances may be drilled, and no related accessory equipment, structure, or facility may be installed in any Tier 1, 2, and 3 Areas until an application for Oil and Gas Conformity Review or Minor Activity Review has been submitted to and approved by the Planning Director as consistent with the standards set out in Section 19.98.060 of this chapter and in accordance with the procedures set out in Sections 19.98.070 through 19.98.120 of this chapter. No such well may be drilled, or related accessory equipment, structure, or facility installed, in a Tier 5 Area unless the Specific Plan procedures for authorizing such activities have been completed, or if no such procedures are included in a Specific Plan unless the Oil and Gas Conformity Review or Minor Activity Review has been submitted and approved consistent with the procedures applicable to Tier 1, 2 and 3 areas.

B. Disposal of nonhazardous oilfield fluid waste and production water is considered an accessory facility only if the facility complies with the following:

1. The nonhazardous oilfield fluid waste or production water is produced and disposed of within the same designated oilfield; or

2. The nonhazardous oilfield fluid waste or production water disposed of outside the designated oilfield of origin is produced by and disposed of solely and only by the same individual, corporation, or entity or by reciprocal agreement among oil and gas operators in Kern County.

C. The provisions of this Section apply to the first three thousand six hundred and forty seven (3,647) new well permits issued each calendar year, within the Oil and Gas Production Boundary Area. Any new well permits beyond three thousand six hundred and forty seven (3,647) applied for in a calendar year would be subject to a conditional use permit.

19.98.050 OIL AND GAS ACTIVITIES BY CONDITIONAL USE PERMIT

A. In Tier 4, no well for use as an injection well and no well for the exploration for or development or production of oil, gas, or other hydrocarbon substances may be drilled, and no related accessory equipment, structure, facility or use may be installed in any zoning district described in this title in which such uses are permitted as conditional uses, or on land owned by the State of California subject to provisions of 19.98.030, until an

application for a conditional use permit, which includes the information specified in Section 19.98.080, has been submitted to and approved by the Planning Commission as consistent with the standards set out in Section 19.98.060 of this chapter and in accordance with the standards and procedures set out in Sections 19.102.130 through 19.102.180 and Chapter 19.98 of this title. In approving a conditional use permit, the Planning Commission may waive any condition set out in Section 19.98.060 of this chapter if it determines that such waiver will not result in material detriment to the public welfare or the property of other persons located in the vicinity, based on findings of fact and compliance with the California Environmental Quality Act.

B. No well for use as an injection well and no well for the exploration for or development or production of oil, gas, or other hydrocarbon substances may be drilled, and no related accessory equipment, structure, or facility, outside the boundaries as defined in Figure 19.98.015, may be installed in any zoning district described in this title in which such uses are permitted, or on land owned by the State of California subject to provisions of 19.98.030, until an application for a conditional use permit, which includes the information specified in Section 19.98.080, has been submitted to and approved by the Planning Commission as consistent with the standards set out in Section 19.98.060 of this chapter and in accordance with the standards and procedures set out in Sections 19.102.130 through 19.102.180 and Chapter 19.98 of this title. In approving a conditional use permit, the Planning Commission may waive any condition set out in Section 19.98.060 of this chapter if it determines that such waiver will not result in material detriment to the public welfare or the property of other persons located in the vicinity, based on findings of fact and compliance with the California Environmental Quality Act.

C. Should any activity requiring approval of an Oil and Gas Conformity Review or Minor Activity Review pursuant to Sections 19.98.070 through 19.98.120 of this chapter, not be able to comply with the Implementation Standards and Conditions set forth in Section 19.98.060, an application for a conditional use permit, which includes the information specified in Section 19.98.080, shall be submitted to and approved by the Planning Commission in accordance with the standards and procedures set out in Sections 19.102.130 through 19.102.180 and Chapter 19.98 of this title. In approving a conditional use permit, the Planning Commission may waive/modify any condition set out in Section 19.98.060 of this chapter if it determines that such waiver or modification will not result in material detriment to the public welfare or the property of other persons located in the vicinity, based on findings of fact and compliance with the California Environmental Quality Act.

D. If a well is not completed upon land subject to a conditional use permit issued pursuant to this chapter and Chapter 19.104 of this title within twelve (12) months from the date of issuance of the permit, or within any approved period thereof, the conditional use permit shall expire and the premises shall be restored as nearly as practicable to their original condition. No permit shall expire while the permittee is continuously conducting drilling, redrilling, completing or abandoning activities, or related operations, in a well on the lands covered by such permit, which activities were commenced while said permit was otherwise in effect. Continuous activities are those suspended for not more than ninety

(90) consecutive days. If, at the expiration of the twelve- (12-) month period, the permittee has not completed his drilling program on the lands covered by such permit, the decision making authority, upon a written request of the permittee, may extend the permit for the additional time requested by permittee for the completion of such drilling, in accordance with the standards and procedures set out in Sections 19.102.130 through 19.102.180.

E. The following accessory uses shall require a Conditional Use Permit:
1. Cogeneration facility
2. Landfills

19.98.060 IMPLEMENTATION STANDARDS AND CONDITIONS

Pursuant to this chapter, all activities for the exploration for or development or production of oil, gas, and other hydrocarbon substances and related accessory buildings, structures, facilities, and activities shall comply with the following standards, unless otherwise provided in this chapter:

A. No oil or gas well shall be drilled within:

1. One hundred (100) feet of any public Major or Secondary highway or building not necessary to the operation of the well;
2. Two hundred and ten (210) feet of any-sensitive receptor (single or multi-family dwelling unit, place of public assembly, institution, school or hospital); or
3. One hundred (100) feet of any building utilized for commercial purposes, not used for oil and gas operations.

B. All drilling and production activities shall conform to all applicable fire and safety regulations. Firefighting apparatus and supplies required by the Kern County Fire Department shall be maintained on the site at all times during drilling and production operations.

C. All required federal, State, and County rules and regulations shall be complied with at all times, including, but not limited to, the rules and regulations of the following agencies:

1. California Division of Oil, Gas and Geothermal Resources
2. Kern County Fire Department
3. Kern County Public Health Department
4. Regional Water Quality Control Board
5. San Joaquin Valley Air Pollution Control District
6. Kern County Public Works Department
7. California Department of Fish and Wildlife
8. United States Bureau of Land Management
9. United States Fish and Wildlife Service
10. United States Environmental Protection Agency

D. The applicant shall demonstrate compliance with all applicable Mitigation Measures as listed in the approved Mitigation Monitoring and Reporting Program (MMRP) for the Revisions to the Zoning Ordinance (C) - 2015.

19.98.070 OIL AND GAS CONFORMITY REVIEW AND APPROVAL ── REQUIRED

In Tiers 1, 2, 3 and 5, except as provided in this section, no permitted use shall be established, no permitted development shall occur, and no building permit or grading permit shall be issued for any permitted use or development subject to this chapter until an Oil and Gas Conformity Review or Minor Activities Review has been submitted to and approved by the Planning Director in accordance with the procedures set out in Sections 19.102.040 through 19.102.060 of this title.

Oil and Gas Conformity Review and Minor Activities Review

Activity	**Conformity Review**	**Minor Activity Review**	**No Permit Required**
Drilling & Completion			
Exploration or Production Well (including cyclic steam production well) A well drilled for exploration or to produce oil and or natural gas	✓		
Reworked Well	✓		
Injection Well A U.S. Environmental Protection Agency class 2 injection well into which fluids are injected rather than produced with the primary objective typically is to maintain reservoir pressure, conduct EOR operations or dispose of produced water or gas, including: steamflood, waterflood or gas injection	✓		
Observation Well A well for the purpose of observing parameters such as temperature, fluid levels and pressure changes	✓		
SB4-Regulated Activities An activity regulated under California Senate Bill 4 (SB4) designed to enhance oil and or gas production or recovery. SB4 activities do not include activities such as steam flooding, water flooding, cyclic steaming, routine well cleanout, well maintenance or removal of formation damage due to drilling, chemical treatments that do not meet the requirements in 584, bottom hole pressure surveys, or routine activity Sidetracking, Deepening, activities that do not affect the integrity of the well of the formation	✓		
Drilling Pit or Sump A drilling pit or sump that requires a permit from the Central Valley Water Quality	✓		

Activity	Conformity Review	Minor Activity Review	No Permit Required
Control Board			
Sidetrack Change in well type, perforate new or existing perforations in casing, run or remove or cement liners, place or drill out any plug (cement, sand, mechanical): essentially, any operation that permanently alters the casing of a well	✓		
Deepening To deepen or permanently alter the casing in a well. Altering includes actions that require a DOGGR permit	✓		
Exploration and Development			
Geophysical Survey or Drilling by Scientific Means Tests conducted to determine the extent of and presence of oil and natural gas reserves and whether the resources for development	✓ *	✓	
Well Pad Preparation Construction activity consisting of clearing and grading of a new surface disturbance to accommodate the well and drilling activity or ancillary facilities that may be required for oil and gas drilling and operations	✓ *	✓	
Access Road Construction New surface disturbance that occur during the construction of a new road or expansion that includes new surface disturbance	✓ *	✓	
Electric Distribution Line Applies to new surface disturbance that occur during the construction of an electrical distribution line or expansion that includes new surface disturbance	✓ *	✓	
Pipeline Applies to new surface disturbance that occur during the construction of a pipeline or expansion that includes new surface disturbance	✓ *	✓	
Production Operations			
Well Operations and Maintenance Not Requiring a DOGGR permit			✓
Geophysical Monitoring			✓
Oil/Gas Treatment	✓ *	✓	

Activity	Conformity Review	Minor Activity Review	No Permit Required
Produced Water Treatment	✓ *	✓	
~~Well Maintenance~~	~~✓ *~~	~~✓~~	
Well Testing			✓
Pipelines	✓ *	✓	
Electric Lines	✓ *	✓	
Wastewater Treatment and Injection Disposal	✓ *	✓	
Wastewater Treatment and Surface Disposal	✓ *	✓	
Waste Treatment and Disposal	✓ *	✓	
Access Road	✓ *	✓	
Vegetation			✓
Reactivation of Idle Wells	✓ *	✓	
Support Facilities			
Administrative Building or Support Facility Building	✓ *	✓	
Steam Generator Boilers that generate steam for oil and gas field production purposes	✓ *	✓	
Flare A gas combustion device used primarily for burning off raw, waste, or unusable flammable gas that cannot be effectively commercialized	✓ *	✓	
Electric Lines Overhead or buried electrical distribution lines used for oil and gas field operations	✓ *	✓	
Electric Substations Electric substations used for oil and gas field operations	✓ *	✓	
Pipelines Pipelines that part of an oil and gas field operation	✓ *	✓	
Tanks Tanks used for oil field operations	✓ *	✓	
Oil/Water Treatment Oil/ water treatment equipment used in oil and gas operations	✓ *	✓	
Produced Water Treatment Equipment used to treat produced water in an oil and gas operation	✓ *	✓	
Produced Water Percolation Pond/Sump Produced water percolation and or evaporation ponds permitted by the Central Valley Regional Water Quality Control Board and used during oil and gas field operations	✓ *	✓	
Emergency Pit, Sump or Secondary Containment	✓ *	✓	

Activity	Conformity Review	Minor Activity Review	No Permit Required
Fencing Fencing used to protect and prevent unauthorized individuals from coming into contact with oil and gas equipment and to prevent trespassing			✓
Well Abandonment A DOGGR process to plug and abandon a well used for oil and or gas activities including production, observation, and injection.			✓
Revegetation The processes taken to establish vegetation at an oil and gas operation			✓
Short Term Employee Housing Short Term Employee Housing Temporary housing for individuals involved in oil and gas operations that require onsite 24 hour 7 day a week oversight	✓ *	✓	
Pre-Ordinance Activities that Cause New Ground Disturbance and/or Subject to the Emission Reduction Agreement	✓ *	✓	
Note: * - Ongoing operations of existing wells, facilities and equipment, including minor modifications such as new interconnections between such facilities, does not trigger conformity review or minor activity review. When these accessory uses, equipment and facilities are proposed as part of the same project as an activity that requires an Oil and Gas Conformity Review, then these accessory activities are required to be included in the Oil and Gas Conformity Review. In all other circumstances, where new ground disturbance occurs, these accessory activities are subject to Minor Activity Review.			

19.98.080 OIL AND GAS CONFORMITY REVIEW — APPLICATION CONTENTS (TIER 1)

Applications for an Oil and Gas Conformity Review within Tier 1 Areas, pursuant to Section 19.98.040 of this chapter shall include the following:

A. Name, telephone number and address of the applicant.

B. Name(s), telephone number(s) and address(es) of the surface property owner(s), mineral owner(s), oil and gas operator (if different than the applicant).

C. Assessor's parcel number(s) of all parcels located within the boundaries of the proposed operation, including accessory equipment, structures, and/or facilities. Latitude/Longitude coordinates for all existing and proposed wells.

D. Description of the project area, including total site acreage, accessory equipment, structures, and/or facilities.

E. A site plan drawn to scale, sufficient in size to show all necessary details, no larger than 11x17, with multiple sheets (if necessary), which includes the following information:

1. Project boundary lines and dimensions, including lease lines and property lines.

2. Location and coordinates of all proposed well holes and related accessory equipment. Location of all roadways, pipelines, tanks, treatment or other structures and facilities to be installed. Distance from proposed well holes to section/midsection lines, located within ½ mile.

3. Location of all existing dwellings and structures, located within fifteen hundred and fifty (1,550) feet for all wells proposed to be drilled less than ten thousand (10,000) feet in depth or located within three thousand two hundred and seventy (3,270) feet, for all wells proposed to be drilled greater than ten thousand (10,000) feet in depth, of the proposed well holes. Identification of the use of each structure, and distances between well holes and existing buildings shall be noted. Location of existing property lines and distance from well site to property line.

4. Location of all new flare gas production lines, lines for production, electrical lines, and location of tank farms to be used.

5. North arrow, date the site plan was prepared, and scale.

6. Location of all accessory/ancillary facilities (including trucking parking, onsite storage, etc.) to be installed with the proposed wells.

7. California Division of Oil, Gas and Geothermal Resources permit application number, if available.

8. Identify the proposed source of water (domestic or production), if applicable.

9. Show location of all proposed underground pipelines.

10. Location of any existing Oil and Gas Conformity Review boundaries within and/or contiguous to the proposed boundary, including total site acreage and identification of Tier Area.

11. Written documentation in sufficient detail to allow the County to determine that all conditions required in Section 19.98.060 will be complied with, including all applicable mitigation measures as listed in the approved Mitigation Monitoring and Reporting Program for the Revisions to the Zoning Ordinance (C) – 2015.

12. Evidence that notice was provided to Land/Surface Owners as required by Section 19.98.080 G.

G. Notification Requirements

1. A physical letter of notification of application that requires a signature for delivery shall be sent by the applicant to all Land/Surface Owners of the property for which the Conformity Review is being requested, if the Land/Surface Owners are different from the mineral owners. The notice shall include all information required by State law. The letter of notification package shall include a copy of proposed site plan, including an official County handout explaining the conformity review process. The package shall be sent 30 days before submittal of the application. The application shall include evidence that the letter was sent and the signatures received. Any application for which the Land/Surface Owner letter is returned for failure to obtain a signature, the Applicant shall provide evidence that the Land/Surface Owner of the property cannot be located through normal means such as tax records. A dated letter of authorization, with specific Assessor Parcel Numbers and the period of time applicable, from the Land/Surface Owner addressed to the County of Kern may be submitted asking that the notification be waived as allowed by State law. In site locations where mineral rights are owned by the United States Government and the surface is privately owned, the application package shall include confirmation that the proposed site plan has been submitted to the United States Bureau of Land Management.

2. A second letter shall be sent, by the applicant, when the application is submitted to the County. A dated letter of authorization, with specific Assessor Parcel Numbers and the period of time applicable, from the Land/Surface Owner, addressed to the County of Kern, may be submitted asking that the notification of application submitted be waived.

3. Access of the surface for purposes of conducting pre-application activities, such as surveys, shall be subject to any existing agreement between the Mineral Owner and the Land/Surface Owner, and State regulations. Such access is not subject to the notification requirements set forth in this title.

19.98.085 OIL AND GAS CONFORMITY REVIEW AND CONDITIONAL USE PERMIT — APPLICATION CONTENTS (TIERS 2-5)

Applications for an Oil and Gas Conformity Review within Tiers 2, 3, or Tier 5 Areas, pursuant to Section 19.98.040 of this chapter, or for a conditional use permit, for oil and gas activities within a Tier 4 Area, pursuant to Section 19.98.050 of this chapter, shall include the following:

A. Name, telephone number and address of the applicant.

B. Name(s), telephone number(s) and address(es) of the surface property owner(s), mineral owner(s), oil and gas operator (if different than the applicant).

C. Assessor's parcel number(s) of all parcels located within the boundaries of the proposed operation, including accessory equipment, structures, and/or facilities. Latitude/Longitude coordinates for all existing and proposed wells.

D. Preliminary Title Report, not over ninety (90) days old. A Guarantee of Title may be submitted for parcels with a Preliminary Title Report on file, over (90) days old.

E. Legal description of the project area, including total site acreage, located within the boundaries of the proposed operation, including accessory equipment, structures, and/or facilities in aliquot format, unless a more precise legal description is determined to be needed by the Planning Director.

F. A site plan drawn to scale, sufficient in size to show all necessary details, no larger than 11x17, with multiple sheets (if necessary), which includes the following information:

1. Topography and proposed grading of the site plan.

2. Project boundary lines and dimensions, including lease lines and property lines.

3. Location and coordinates of all proposed well holes and related accessory equipment. Location of all roadways (access roads), any proposed landscaping, pipelines, tanks, treatment or other structures and facilities to be installed, and any existing or abandoned wells if such are known to exist.

4. Location of all existing dwellings and structures, located within fifteen hundred and fifty (1,550) feet for all wells proposed to be drilled less than ten thousand (10,000) feet in depth or located within three thousand two hundred and seventy (3,270) feet in depth, for all wells proposed to be drilled greater than ten thousand (10,000) feet, of the proposed well holes. Identification of the use of each structure, and distances between well holes and existing buildings shall be noted. Location of existing property lines and distance from well site to property line.

5. Location of all new flare gas production lines, lines for production, electrical lines, and location of tank farms to be used.

6. North arrow, date the site plan was prepared, and scale.

7. Location of all recorded easements onsite, roads, section/midsection lines, located within ½ mile of the proposed wells.

8. Location of all accessory/ancillary facilities (including trucking parking, onsite storage, etc.) to be installed with the proposed wells. Location of planned ground disturbance on irrigated or prime agricultural land.

9. Description of project boundary in relation to Tier areas as defined in Figure 19.98.015.

10. California Division of Oil, Gas and Geothermal Resources permit application number, if available.

11. Identify the location of the 100-year floodplain, if applicable.

12. Identify the proposed source of water (domestic or production), if applicable.

13. Show location of all new proposed underground pipelines.

14. Location of any existing Oil and Gas Conformity Review boundaries within and/or contiguous to the proposed boundary.

15. Written documentation in sufficient detail to allow the County to determine that all conditions required in Section 19.98.060 will be complied with, including all applicable mitigation measures as listed in the approved Mitigation Monitoring and Reporting Program for the Revisions to the Zoning Ordinance (C) – 2015.

16. Evidence that notice was provided to Land/Surface Owners as required by Section 19.98.085 H.

G. Signature Block and Statement (Land/Surface Owner, Mineral Owner and Operator.
The following statement shall be included ~~to~~on the first page of the site plan. The statement shall be signed by all parties, irrespective of ownership relationship. Multiple lines may be added for multiple ownership signatures. A dated letter of authorization, with specific Assessor Parcel Numbers, from the Land/Surface Owner addressed to the County of Kern may be submitted asking that the signature on the site plan be waived.

REQUIRED STATEMENT

The undersigned Land/Surface Owner is the owner of APN#_____. The undersigned is the Mineral Owner and/or Operator or Lessee of the Mineral Owner. The Land/Surface Owner and the Mineral Owner and/or the Operator or Lessee have come to an agreement regarding the use of the surface of the property in connection with the Kern County permit that is being issued with this site plan.

Land/Surface Owner:	Mineral Owner:	Operator:
_____	_____	_____
Print Name	Print Name	Print Name
_____ _	_____	_____
Title/Company	Title/Company	Title/Company
_____	_____	_____
Signature	Signature	Signature
_____	_____	_____
Date	Date	Date

H. Notification Requirements – Tier 2, 3, 4 and 5 Areas.

1. A physical letter of notification of application that requires a signature for delivery shall be sent by the applicant to all Land/Surface Owners of the property for which the Conformity Review is being requested, if the Land/Surface Owners are different from the mineral owners. The notice shall include all information required by State law. The letter of notification package shall include a copy of proposed site plan, including an official County handout explaining the conformity review process. The package shall be sent 30 days before submittal of the application. The application shall include evidence that the letter was sent and the signatures received. Any

application for which the Land/Surface Owner letter is returned for failure to obtain a signature, the Applicant shall provide evidence that the Land/Surface Owner of the property cannot be located through normal means such as tax records. A dated letter of authorization, with specific Assessor Parcel Numbers and the period of time applicable, from the Land/Surface Owner addressed to the County of Kern may be submitted asking that the notification be waived as allowed by State law. In site locations where mineral rights are owned by the United States Government and the surface is privately owned, the application package shall include confirmation that the proposed site plan has been submitted to the United States Bureau of Land Management.

2. Access of the surface for purposes of conducting pre-application activities, such as surveys, shall be subject to any existing agreement between the Mineral Owner and the Land/Surface Owner, and State regulations. Such access is not subject to the notification requirements set forth in this title.

19.98.090 OIL AND GAS CONFORMITY REVIEW – WITH APPLICABLE SURFACE OWNER SIGNATURE

A. An applicant for a ministerial Oil and Gas Conformity Review permit pursuant to this chapter shall submit an application to the Planning Director in the format and number of copies specified by the Planning Director. The application shall contain all the information specified for the application by the applicable section of this chapter. The application shall be accompanied by the fee established by the Board of Supervisors pursuant to Section 19.06.040 of this Title. For Tier 2, 3 and 5 Areas, a copy of the application shall be provided to the Land/Surface owner per the requirements of 19.98.085.H above. The application must contain the signature block and statement pursuant to Section 19.98.085.G, or shall contain a letter from the Land/Surface Owner waiving the need for said signature on the specified parcel of the proposed application. The waiver letter must be dated and provide specific language as to the length of time the letter is valid if to be used for future Oil and Gas Conformity Reviews.

B. The Planning Director shall inform the applicant in writing within seven (7) business days of receipt that the application is complete and shall issue the permit if he/she determines that the proposed use meets the implementation standards and conditions specified in the applicable provisions of this chapter or inform the applicant that additional information is needed to complete the application and therefore the application is deemed incomplete.

C. Within three (3) business days of reviewing the second submittal, if required, to correct any deficiencies, the Planning Director shall issue the permit if he/she determines that the proposed use meets the implementation standards and conditions specified in the applicable provisions of this chapter or inform the applicant that additional information is needed to complete the application and therefore the application is deemed incomplete.

D. Within seven (7) business days of reviewing the third submittal to correct any deficiencies, the Planning Director shall issue the permit if he/she determines that the proposed use meets

the implementation standards and conditions specified in the applicable provisions of chapter. If the application remains incomplete, a mandatory in person meeting with the applicant, and any consultant processing the application on behalf of the applicant, will be required to resolve the issues preventing issuance of the permit. The in-person meeting cannot be waived, and shall be held at the Kern County Planning and Community Development Department.

E. Failure of the Planning Director to meet any deadline for application review or permit issuance as provided in this section shall not cause a permit to be deemed approved.

F. Any reviews beyond three (3), as provided above, shall require additional fees to be paid, as set forth pursuant to Section 19.06.040 of this Title, and shall be completed within thirty (30) days after the application is deemed complete.

G. Prior to conducting any drilling activity, the applicant (or operator, if acting on behalf of an applicant) must have received and have on file both the approved Permit to Conduct Well Operations from California Division of Oil, Gas and Geothermal Resources and an approved Oil and Gas Conformity Review unless the activity involves facility placement not subject to California Division of Oil, Gas and Geothermal Resources permit approval.

H. Upon issuance of this permit:

1. The County shall send a notification to the applicant, applicable responsible agencies, and the land/surface owner (if different from the mineral owner) stating a permit has been issued by the County. The approval letter shall include a stamped site plan, list of applicable conditions and mitigation measures, and a determination that the permit approval falls within the scope of the Environmental Impact Report prepared for the Revisions to the Zoning Ordinance (C) – 2015, and that other state, regional, and local agencies are responsible agencies under the California Environmental Quality Act.

2. The applicant shall notify the Land/Surface owner of the proposed dates for access of the property to commence operations and/or to comply with mitigation measures. Such notification may take the form of multiple letters. A dated letter of authorization, with specific Assessor Parcel Numbers and the period of time applicable, from the Land/Surface Owner, addressed to the County of Kern, may be submitted asking that the notification of access be waived or has already been satisfied with a single notification letter.

I. If the development for which a permit has been approved pursuant to this article has not commenced within one (1) year of the granting of the permit, or if the permit has been unused, abandoned, discontinued, or has ceased for a period of one (1) year, the permit shall become null and void and of no effect, unless an extension has been granted by the Planning Director upon written request for an extension before the expiration of the one- (1-) year period. A copy of any expiration or extension shall be provided to the Land/Surface Owner.

19.98.100 OIL AND GAS CONFORMITY REVIEW - WITHOUT REQUIRED SURFACE OWNER SIGNATURE

The provisions contained in this section apply only to applications submitted within Tier 2, 3 and 5 Areas, which do not contain the surface owner signature as required by Section 19.98.070, above:

A. An applicant for a ministerial Oil and Gas Conformity Review permit pursuant to this chapter, which does not include the Land/Surface Owner signature required pursuant to Section 19.98.085 F, shall submit an application to the Planning Director in the format and number of copies specified by the Planning Director. The application shall contain all the information specified for the application by the applicable provisions of this chapter. A copy of the application shall be provided to the Land/Surface Owner per the requirements of Section 19.98.080.F above. The application shall be accompanied by the fee established by the Board of Supervisors pursuant to Section 19.06.040 of this Title.

B. The Planning Director shall inform the applicant in writing on the thirtieth (30) calendar day of receipt that the application is complete or that additional information is needed to complete the application and therefore the application is deemed incomplete. The Planning Director shall notify the Surface/Land Owner of their option for an in-person meeting with the Department to discuss the conformity review process and answer questions regarding the site plan, to be scheduled within the thirty (30) day period stated above.

C. Second Thirty (30) Day Review Period.

1. If the application is deemed complete during the thirty (30) day period in Section 19.98.100 B, a mandatory second thirty (30) calendar day review will commence immediately following the end of the first review period.

2. If the application is found to be incomplete during the review period in Section 19.98.100 B, a subsequent thirty (30) day review period will commence at the time of submittal by the Applicant of the additional documentation.

3. The Planning Director shall notify the Surface/Land Owner of their option for an additional in-person meeting with the Department to answer questions including review of any revisions to the site plan, to be scheduled within the thirty (30) day period stated above.

4. The Planning Director shall request to schedule a mandatory in-person meeting with the Applicant to review the current site plan and discuss the conformity review process.

5. On the first business day following the 30 day review period, the Planning Director shall issue the permit if he/she determines that the proposed use meets the implementation standards and conditions specified in the applicable provisions of this chapter or inform the applicant that additional information is needed to complete the application and therefore the application is deemed incomplete.

D. All subsequent reviews, due to incomplete application submittals, shall require a mandatory thirty (30) calendar day review period. The Planning Director shall issue the permit if he/she determines that the proposed use meets the development standards and conditions specified in the applicable provisions of this chapter or inform the applicant that additional information is needed to complete the application and therefore the application is deemed incomplete. If application remains incomplete, a mandatory in-person meeting with the applicant, and any consultant processing the application will be required to resolve the issues preventing issuance of the permit. The in-person meeting cannot be waived.

E. Any reviews beyond three (3), as provided above, shall require additional fees to be paid, as set forth pursuant to Section 19.06.040 of this Title, and shall be completed within thirty (30) days after the application is deemed complete.

F. At any time during the review periods in Sections 19.98.100.A through D the applicant submits proof of the required surface owner signature on the site plan, the application will be deemed acceptable to be processed under the provisions set forth in Section 19.98.090.

G. Failure of the Planning Director to meet any deadline for application review or permit issuance as provided in this section shall not cause a permit to be deemed approved.

H. No sooner than thirty (30) calendar days from issuance of the Kern County Oil and Gas Conformity Review and any other necessary state or federal permits, the applicant may begin construction of the facility. This period shall be used to coordinate deposits and inspections pursuant to 19.98.140 (Inspection Compliance). Prior to conducting any drilling activity the operator must have received and have on file both the approved Permit to Conduct Well Operations, from California Division of Oil, Gas and Geothermal Resources and an approved Oil and Gas Conformity Review unless the activity involves facility placement not subject to California Division of Oil, Gas and Geothermal Resources permit approval.

I. Upon issuance of this permit:

1. The County shall send a notification to the Applicant, applicable responsible agencies, and the Land/Surface Owner stating a permit has been issued by the County. The approval letter shall include a stamped site plan, list of applicable conditions and mitigation measures, and a determination that the permit approval falls within the scope of the Environmental Impact Report prepared for the Revisions to the Zoning Ordinance (C) – 2015, and that other state, regional, and local agencies are responsible agencies under the California Environmental Quality Act.

2. The Applicant shall notify the Land/Surface owner of the proposed dates for access of the property to commence operations and/or to comply with mitigation measures. Such notification may take the form of multiple letters.

J. If the development for which a permit has been approved pursuant to this article has not commenced within one (1) year of the granting of the permit, or if the permit has been unused, abandoned, discontinued, or has ceased for a period of one (1) year, the permit shall become null and void and of no effect, unless an extension has been granted by the decision-making authority upon written request for an extension before the expiration of the one- (1-) year period. A copy of any expiration or extension shall be provided to the Land/Surface Owner.

19.98.110 MINOR ACTIVITY REVIEW — APPLICATION CONTENTS

An application for Minor Activity Review ministerial permit for Tier 1-3 and 5 Areas, pursuant to Section 19.98.040 of this chapter, shall include the following:

A. Name, telephone number and address of the applicant.

B. Name(s), telephone number(s) and address(es) of the property owner(s), mineral owner(s), oil and gas operator (if different than the applicant).

C. Assessor's parcel number(s) of all parcels located within the boundaries of the proposed operation, including accessory equipment, structures, and/or facilities. Latitude/Longitude coordinates for all wells.

D. Preliminary Title Report, not over ninety (90) days old. A Guarantee of Title may be submitted for parcels with a Preliminary Title Report on file, over (90) days old. For all Tier 2-5 Applications only.

E. Description of proposed oil and gas activity and written documentation in sufficient detail to allow the County to determine that all conditions required in Section 19.98.060 will be complied with, including all applicable mitigation measures as listed in the approved Mitigation Monitoring and Reporting Program for the Revisions to the Zoning Ordinance (C) – 2015.

F. Sufficient number of photographs to identify the extent of existing ground disturbance.

G. For Tier 2, 3 and 5 Areas only, documentation of a letter submitted to the Land/Surface Owner(s), if different from the Mineral Owner, informing the Land/Surface owner of the Minor Activity Review application and providing a complete copy of the application, shall be mailed and received a minimum of thirty (30) days prior to application being submitted to the County for review.

19.98.120 MINOR ACTIVITY REVIEW

A. An applicant for a Minor Activity Review ministerial permit for Tiers 1-3, and 5, pursuant to this chapter shall submit an application to the Planning Director in the format and number of copies specified. The application shall contain all the information specified for the application by the applicable section of this chapter. The application shall be accompanied by the fee established by the Board of Supervisors pursuant to Section 19.06.040 of this Title. For Tier 2, 3 and 5 Areas, a copy of the application shall be provided to the Land/Surface Owner per the requirements of Section 19.98.080.F above.

B. The Planning Director shall to inform the applicant in writing within seven (7) business days of receipt that the application is complete and shall issue the permit if he/she determines that the proposed use meets the development standards and conditions specified in the applicable provisions of this chapter or inform the applicant that additional information is needed to complete the application and therefore the application is deemed incomplete.

C. Within three (3) business days of reviewing the second submittal, if required, to correct any deficiencies, the Planning Director shall issue the permit if he/she determines that the proposed use meets the development standards and conditions specified in the applicable provisions of this chapter or inform the applicant that additional information is needed to complete the application and therefore the application is deemed incomplete.

D. Within seven (7) business days of reviewing the third submittal, if required, to correct any deficiencies, the Planning Director shall make reasonable efforts to issue the permit if he/she determines that the proposed use meets the development standards and conditions specified in the applicable provisions of Title. If additional information is needed, a mandatory in-person meeting with the applicant, and any consultant processing the application will be required to resolve the issues preventing issuance of the permit. The in-person meeting cannot be waived.

E. Failure of the Planning Director to meet any deadline for application review or permit issuance as provided in this section shall not cause a permit to be deemed approved.

F. Any reviews beyond three (3), as provided above, shall require additional fees to be paid, as set forth pursuant to Section 19.06.040 of this Title, and shall be completed within thirty (30) days after the applicant is deemed complete.

G. Prior to conducting any activity the operator must have received and have on file both approved applicable California Division of Oil, Gas and Geothermal Resources permit(s), if necessary, and an approved Minor Activity Review pursuant to the chapter.

H. Upon issuance of this permit, the County shall send a notification to the applicable responsible agencies stating a permit has been issued by the County and that the agency has certain requirements under the California Environmental Quality Act as a responsible agency.

I. If the development for which a permit has been approved pursuant to this article has not commenced within one (1) year of the granting of the permit, or if the permit has been unused, abandoned, discontinued, or has ceased for a period of one (1) year, the permit shall become null and void and of no effect, unless an extension has been granted by the decision-making authority upon written request for an extension before the expiration of the one- (1-) year period. A copy of any expiration or extension shall be provided to the Land/Surface Owner.

19.98.130 SELF-CERTIFICATION

Upon issuance of Oil and Gas Conformity Review or Minor Activity, as specified in Sections 19.98.090 and 19.98.120 of this chapter, and any other necessary state or Federal permits, the applicant may begin construction of the facility. The provisions of this section do not apply to issuance of an Oil and Gas Conformity Review pursuant to 19.98.100 (Oil and Gas Conformity Review - Without Required Surface Owner Signature) of this chapter. The applicant must self-certify compliance with Chapter 19.98 during the construction and operation process. Once the project applicant has completed the construction of the oil and gas facilities, as indicated on the approved site plan, the project applicant will provide a self-certified statement, in writing, to the County, in a format specified by the Director.

During construction and continued operations of the activities specified by the approved site plan, the applicant will be responsible for complying with the issued Oil and Gas Conformity Review, and all applicable implementation standards as outlined in this chapter. Should a violation of a permit issued under this chapter occur on-site, a Certification and Finalization process for the Oil and Gas Conformity Review will be conducted by the County Oil and Gas Inspector, and self-certification for the permit will no longer be permitted for the applicant for the next issued permit,

as a probationary period. Once the applicant has demonstrated compliance on the following permit, any subsequent permit may be self-certified.

19.98.140 INSPECTION COMPLIANCE

Upon receipt of an issued permit pursuant to Section 19.98.100 (Oil And Gas Conformity Review - Without Required Surface Owner Signature), the applicant must contact the Planning and Community Development Department and the Public Works Department to pay pursuant to Section 19.06.040 of this title and provide a signed Cost Recovery Agreement, and schedule an inspector to be present during all activities related to the Oil and Gas Conformity Review. The County inspector or third-party building inspector ~~and expert(s)~~ retained by the County shall confirm compliance with all requirements of this Title and Mitigation Measures, and other federal and State laws. All compliance verification costs shall be incurred by the applicant, including any costs for requested onsite inspections by environmental resource experts to confirm or resolve compliance issues. During construction ~~and continued operations of the~~ for all activities specified by the approved site plan, a building inspector will be present on the site to monitor and enforce the applicant's compliance with the issued Oil and Gas Conformity Review, and all applicable standards and conditions as outlined in the permit. The applicant may submit a request along with a surveillance plan, for consideration by the Planning Director. The Plan shall outline the use of onsite cameras with real-time surveillance or 24-hour a day taped or other surveillance methods approved by the Planning Director, in conjunction with review and/or onsite inspections by the County Inspector or third-party inspector retained by the County. Throughout operations of the activities specified by the approved site plan, the applicant shall comply with the issued Oil and Gas Conformity Review, and all applicable standards and conditions as outlined in the permit.

19.98.145 IDLE WELLS

A. An operator shall file a notification with the County, and with the Surface/Land Owner (if different from the Mineral Owner) of any Idle or Long Term Idle Well, within 30 days of changing the well status in Tier 2 through 5.

B. For purposes of this section, a "Idle Well" is defined as a well that has not produced oil or natural gas, or has not been used for injection for six consecutive months of continuous operation during the last five or more years. A "Long-Term Idle Well" means any well that has not produced oil or natural gas, or has not been used for injection for six consecutive months of continuous operations during the last 10 or more years. An "active observation well" means a well being used for the sole purpose of gathering reservoir data, such as pressure or temperature in a reservoir being currently produced or injected by the operator, and the data is gathered at least once every three years. An Idle well or Long-Term Idle Well does not include an active observation well.

C. Any well operator, land owner or resident within one mile of an Idle or Long-Term Idle Well (or surface owner if different from mineral owner of the actual idle or long-term idle well subject to the notice) may file a notice with the County asking for confirmation of the status that a well is either a Idle or Long Term Idle Well, and the County shall forward this notice to the California Division of Oil, Gas and Geothermal Resources to seek information about the status of this well and the owner/permittee for the well. The County shall cooperate with the

California Division of Oil, Gas and Geothermal Resources in its enforcement of regulations applicable to these wells.

D. The County shall check with the California Division of Oil, Gas and Geothermal Resources whether an applicant for an Oil and Gas Conformity Review permit or Conditional Use Permit, in Tier 2 through 5, is the subject of a~~n idle well~~ complaint pursuant to California Public Resources Code Section 3235 for an idle well located in Tier 2 through 5, and if so shall coordinate with the California Division of Oil, Gas and Geothermal Resources to assure that the applicant is in compliance with applicable idle well regulations for the well(s) included in the ~~notice~~complaint(s). An applicant not in compliance with idle well regulations, as determined by official correspondence from the California Division of Oil, Gas and Geothermal Resources, shall not be eligible to receive additional Oil and Gas Conformity Review permits or conditional use permits under this Chapter until such time as the Division of Oil, Gas and Geothermal Resources has advised the County that the applicant is in compliance or has entered into a written agreement with the California Division of Oil, Gas and Geothermal Resources for achieving compliance. The County shall continue to process Oil and Gas Conformity Review permits or conditional use permits under this Chapter for an applicant until such time as the County has received the official correspondence from the Division of Oil, Gas and Geothermal Resources, making its compliance determination regarding the idle well(s) in the compliant(s).

E. The Kern County Planning and Community Development Department shall obtain, on an annual basis, a copy of the idle well list from the California Division of Oil, Gas and Geothermal Resources.

19.98.150 PLUGGED AND ABANDONED

Any permit issued pursuant to this chapter must plug and abandon all permitted wells per the following procedures:

A. The applicant shall plug and abandon all facilities in accordance with applicable laws and regulations as administered by the California Division of Oil, Gas and Geothermal Resources.

B. Within thirty (30) days from completion of the plugged and abandoned procedures for any well constructed after the amendment of this Chapter 19.98, the applicant shall submit to the Planning and Community Development Department a letter stating which facilities have been abandoned, including the unique well identification number for each well. Compliance of this requirement shall include written confirmation from California Division of Oil, Gas and Geothermal Resources.

19.98.160 PERMIT REVOCATION AND MODIFICATION

Any permit issued pursuant to this chapter may be revoked or modified pursuant to Section 19.102.020 of this Title.

NOTE: The following text is contained in the current Zoning Ordinance (Title 19), and are shown as ~~strikethrough~~ for proposed replacement with the text above for Chapter 19.98. Yellow highlights, above, show changes being proposed by Planning Staff to the Board of Supervisors, subsequent to the Planning Commission Hearing on October, 5, 2015

~~C H A P T E R 19.98~~

~~OIL AND GAS PRODUCTION~~

~~SECTIONS:~~

~~19.98.010 PURPOSE AND APPLICATION~~
~~19.98.020 UNRESTRICTED DRILLING~~
~~19.98.030 DRILLING BY MINISTERIAL PERMIT~~
~~19.98.040 DRILLING BY CONDITIONAL USE PERMIT~~
~~19.98.050 DEVELOPMENT STANDARDS AND CONDITIONS~~
~~19.98.060 PLOT PLAN REVIEW — CONDITIONAL USE PERMIT — APPLICATION CONTENTS~~
~~19.98.070 PERMIT REVOCATION AND MODIFICATION~~

~~19.98.010 PURPOSE AND APPLICATION~~

~~The purpose of this chapter is to promote the economic recovery of oil, gas, and other hydrocarbon substances in a manner compatible with surrounding land uses and protection of the public health and safety by establishing reasonable limitations, safeguards, and controls on exploration, drilling, and production of hydrocarbon resources. The procedures and standards contained in this chapter shall apply to all exploration drilling and production activities related to oil, gas, and other hydrocarbon substances carried out in unincorporated Kern County.~~

~~19.98.020 UNRESTRICTED DRILLING~~

~~No review or permit shall be required for the drilling of any steam injection well, steam drive well, service well, or any well intended for the exploration for or development or production of oil, gas, and other hydrocarbon substances, or for any related accessory equipment, structure, or facility in the Exclusive Agriculture (A), Limited Agriculture (A-1), Medium Industrial (M-2), Heavy Industrial (M-3), or Natural Resource (NR) Districts, provided that:~~

~~A. All drilling installations and operations comply with the requirements of State law and with applicable fire and safety ordinances and regulations of the County of Kern.~~

~~B. Drilling shall not be commenced within one hundred (100) feet of any existing residence without the written consent of the owner thereof.~~

~~C. Signs shall be limited to directional, warning, and identification signs in connection with oil, gas, or other hydrocarbon drilling and development operations.~~

D. Disposal of nonhazardous oilfield liquid waste and production water is considered an accessory facility only if the facility complies with the following:

1. The nonhazardous oilfield liquid waste or production water is produced and disposed of within the same designated oilfield; or

2. The nonhazardous oilfield liquid waste or production water disposed of outside the designated oilfield of origin is produced by and disposed of solely and only by the same individual, corporation, or entity.

19.98.030 DRILLING BY MINISTERIAL PERMIT

A. No well for use as an injection well and no well for the exploration for or development or production of oil or gas or other hydrocarbon substances may be drilled, and no related accessory equipment, structure, or facility may be installed in the Light Industrial (M-1) or Recreation Forestry (RF) District until an application for plot plan review has been submitted to and approved by the Planning Director as consistent with the standards set out in Section 19.98.050 of this chapter and in accordance with the procedures set out in Sections 19.102.040 through 19.102.060 of this title. In approving an application for plot plan review, the Planning Director may waive any standards set out in Section 19.98.050 of this chapter if he/she determines that such waiver will not result in material detriment to the public welfare or to the property of other persons located in the vicinity.

B. Disposal of nonhazardous oilfield liquid waste and production water is considered an accessory facility only if the facility complies with the following:

1. The nonhazardous oilfield liquid waste or production water is produced and disposed of within the same designated oilfield; or

2. The nonhazardous oilfield liquid waste or production water disposed of outside the designated oilfield of origin is produced by and disposed of solely and only by the same individual, corporation, or entity.

19.98.040 DRILLING BY CONDITIONAL USE PERMIT

A. No well for use as an injection well and no well for the exploration for or development or production of oil, gas, or other hydrocarbon substances may be drilled, and no related accessory equipment, structure, or facility may be installed in any zoning district described in this title in which such uses are permitted as conditional uses until an application for a conditional use permit has been submitted to and approved by the Planning Commission as consistent with the standards set out in Section 19.98.050 of this chapter and in accordance with the standards and procedures set out in Sections 19.102.130 through 19.102.180 and Chapter 19.104 of this title. In approving a conditional use permit, the Planning Commission may waive any condition set out in Section 19.98.050 of this chapter if it determines that such waiver will not result in

material detriment to the public welfare or the property of other persons located in the vicinity.

B. Disposal of nonhazardous oilfield liquid waste and production water is considered an accessory facility only if the facility complies with the following:

1. The nonhazardous oilfield liquid waste or production water is produced and disposed of within the same designated oilfield; or

2. The nonhazardous oilfield liquid waste or production water disposed of outside the designated oilfield of origin is produced by and disposed of solely and only by the same individual, corporation, or entity.

C. If a producing well or service well is not completed upon land subject to a conditional use permit issued pursuant to this chapter and Chapter 19.104 of this title within twelve (12) months from the date of issuance of the permit, or within any extended period thereof, the conditional use permit shall expire and the premises shall be restored as nearly as practicable to their original condition. No permit shall expire while the permittee is continuously conducting drilling, redrilling, completing or abandoning operations, or related operations, in a well on the lands covered by such permit, which operations were commenced while said permit was otherwise in effect. Continuous operations are operations suspended not more than thirty (30) consecutive days. If, at the expiration of the twelve (12) month period, the permittee has not completed his drilling program on the lands covered by such permit, the Planning Commission may, upon a written request of the permittee, extend the permit for the additional time requested by permittee for the completion of such drilling program.

19.98.050 DEVELOPMENT STANDARDS AND CONDITIONS

All wells drilled, pursuant to Section 19.48.020 of this title and Sections 19.98.030 and 19.98.040 of this chapter, for the exploration for or development or production of oil, gas, and other hydrocarbon substances and related facilities and activities shall comply with the following standards, unless otherwise provided in this chapter:

A. No oil or gas well shall be drilled within one hundred (100) feet of any public highway or building not necessary to the operation of the well, or within one hundred and fifty (150) feet of any dwelling, or within three hundred (300) feet of any building used as a place of public assembly, institution, or school, or within fifty (50) feet of any building utilized for commercial purposes constructed prior to the commencement of such drilling, without the written consent of the owner of such structure.

B. All drilling and production activities shall conform to all applicable fire and safety regulations, and firefighting apparatus and supplies required by the Kern County Fire Department shall be maintained on the site at all times during drilling and production operations.

C. No signs, other than directional and warning signs and those required for identification of the well, shall be constructed, erected, maintained, or placed on the premises or any part thereof, except those required by law or ordinance to be displayed in connection with the drilling or maintenance of the well.

D. Sanitary toilet and washing facilities, if required by the Kern County Health Department or other governmental agencies, shall be installed and maintained in a clean and sanitary condition during drilling operations, and at such other times as specified by these agencies.

E. Proven technological improvements generally accepted and used in drilling and production methods shall be employed as they may become available if they are capable of reducing nuisances or annoyances.

F. All derricks, boilers, and other drilling equipment employed pursuant to this section to drill any well hole or to repair, clean out, deepen, or redrill any completed or drilling well shall be removed within ninety (90) days after completion of production tests following completion of such drilling, or after abandonment of any well, unless such derricks, boilers, and drilling equipment are to be used within a reasonable time, as determined by the Planning Director, for the drilling of another well or wells on the premises.

G. Within ninety (90) days after any well has been placed in production, or after its abandonment, earthen sumps used in drilling or production or both (unless such sumps are to be used within a reasonable time as determined by the Planning Director for the drilling of another well or wells) shall be filled and the drilling site restored as nearly as practicable to a uniform grade. Temporary earthen sumps may be used for cleanout or remedial work on an existing well or other production facility. However, these sumps shall be filled and the site restored as nearly as practicable to uniform grade within ninety (90) days after the cleanout or other remedial work is completed. Such restoration work shall comply with all applicable regulations of the California Division of Oil and Gas.

H. Any derrick used for servicing operations shall be of the portable type, provided, however, that upon presentation of proof that the well is of such depth or has such other characteristics, or for other cause, that a portable type derrick will not properly service such well, the Planning Director may approve the use of a standard type of derrick.

I. Whenever oil or gas is produced into and shipped from tanks located on the premises, such tanks, whenever located within five hundred (500) feet of any dwelling or commercial building, shall be surrounded by shrubs or trees, planted and maintained so as to develop attractive landscaping or shall be fenced in such a manner as to, insofar as practicable, screen such tanks from public view. Such fencing shall comply with the requirements of the California Division of Oil and Gas.

J. Whenever a well is located within five hundred (500) feet from an existing dwelling unit, except in case of an emergency, no materials, equipment, tools, or pipe used for either drilling or production operations shall be delivered to or removed from the drilling site, except between the hours of eight (8:00) a.m. and eight (8:00) p.m., unless otherwise required by the California Division of Oil and Gas.

K. Pumping wells shall be operated by electric motors or muffled internal combustion engines.

L. The height of all pumping units shall not exceed thirty five (35) feet and shall be painted and kept in neat condition.

M. All vehicle parking and maneuvering areas shall be treated and maintained with oiled sand or a similar dust binding material.

N. After production begins and a pump is installed on the wellhead, a fence at least six (6) feet in height shall be installed around the pump site or drilling island for public safety. This fence shall be constructed of chain link with wood or metal slats or other screening fence as may be approved by the Planning Director. This fencing and screening requirement shall apply only to those pump sites located within five hundred (500) feet of any dwelling. Such fencing shall comply with the requirements of the California Division of Oil and Gas.

O. All required federal, State, and County rules and regulations shall be complied with at all times, including, but not limited to, the rules and regulations of the following agencies:

1. California Division of Oil and Gas

2. Kern County Fire Department

3. Kern County Health Department

4. Regional Water Quality Control Board

5. Air Pollution Control District

6. Kern County Engineering and Survey Services Department

19.98.060 PLOT PLAN REVIEW CONDITIONAL USE PERMIT APPLICATION CONTENTS

An application for plot plan review pursuant to Section 19.98.030 of this chapter and an application for a conditional use permit pursuant to Section 19.98.040 of this chapter shall include the following:

A. Name and address of the applicant

B. Name(s) and address(es) of the property owner(s)

C. Assessor's parcel number(s)

D. Legal description of the property

E. A plot plan or site development plan (in the case of a conditional use permit) drawn at the scale specified by the Planning Director, which includes the following information:

1. Topography and proposed grading

2. Location of all proposed well holes and related accessory equipment, structures, and facilities to be installed and any abandoned wells if such are known to exist

3. Location of all existing dwellings and buildings used for other purposes, located within three hundred (300) feet of the proposed well holes, identification of the use of each structure, and distances between well holes and existing buildings

4. North arrow

F. Narrative description of the proposed development, including:

1. Acreage or square footage of the property

2. Nature of hydrocarbon development activity
3. Description of equipment to be used

4. Distance to all existing buildings

5. Phasing or development schedule

19.98.070 PERMIT REVOCATION AND MODIFICATION

Any permit issued pursuant to this chapter may be revoked or modified pursuant to Section 19.102.020 of this title.

REVISIONS TO OTHER SECTIONS OF THE ZONING ORDINANCE (Revisions in Underline and ~~Strikethrough~~) No proposed Planning Staff changes since Planning Commission Hearing on October 5, 2015

C H A P T E R 19.48

DRILLING ISLAND (DI) DISTRICT

19.48.080 HEIGHT LIMITS

Height limits in the DI District are as follows:

A. None on derricks and other equipment used during the exploration and drilling phase of development.

B. Pumping units shall not exceed ~~thirty-five (35)~~ eighty (80) feet in height.

19.48.130 SPECIAL REVIEW PROCEDURES AND DEVELOPMENT STANDARDS

A. All drilling and other hydrocarbon development activity in the DI District shall be carried out in accordance with the standards and procedures set out in Section 19.98.~~050~~060 of this title. All activities subject to an Oil and Gas Conformity Review or Minor Activity Review shall comply with the provisions of Section 19.98.060 of the title.

B. Development in the DI District shall comply with the interpretations and provisions of Chapter 19.08 of this title.

CHAPTER 19.81

OUTDOOR LIGHTING

"DARK SKIES ORDINANCE"

19.81.050 EXEMPTIONS

The following are permanently exempt from the provisions of this chapter:

1. Outdoor lighting specifically approved in conjunction with a discretionary permit.

2. Federal and State Facilities: Outdoor light fixtures on, in, or in connection with facilities and land owned or operated by the government of the United States of America or the State of California; however, these agencies are encouraged to comply with the provisions of this ordinance.

3. Airports and Other Lighting Required by the Federal Aviation Administration: Outdoor lighting for public and private airports and any other uses that are regulated by the Federal Aviation Administration.

4. Correctional Institutions: Outdoor lighting for federal, State, and County-owned or operated correctional institutions; however, voluntary compliance with the intent and provisions of this chapter is encouraged.

5. Emergency Light: Temporary emergency lighting needed by the sheriff's department, police department, fire department, public utility, rescue operation or in conjunction with any other emergency service.

6. Temporary Construction: All temporary lighting used for the construction or repair of roadways, utilities, and other public infrastructure.

7. Internally Illuminated Signs: All internally illuminated signs, including those used for on-site and off-site advertising purposes. Such signs are regulated by the provisions of Chapter 19.84 (Signs) of the Kern County Zoning Ordinance.

8. Neon, Argon, or Krypton: All fixtures illuminated solely by neon, argon, or krypton.

9. United States Flag and State of California Flag: Lighting used to illuminate a properly displayed United States Flag and/or the State of California Flag.

10. Lighting Required by Building Codes or other Regulations: Communication towers, exit signs, lighting for stairs/ramps, lighting for points of ingress/egress to buildings, and all other illumination required by air navigation safety provisions, building codes, OSHA standards, and other permitting requirements from State or federal agencies.

11. Fossil Fuel Light: All outdoor light fixtures producing light directly by the combustion of fossil fuels (such as kerosene lanterns, gas lamps, etc.)

12. Street Lighting: Lighting equipment within a public or private right-of-way or easement for the principal purpose of illuminating streets, roadways, and/or other areas open to transport by vehicle or pedestrian traffic.

13. Seasonal Displays: Displays using multiple low wattage bulbs or lasers, provided that they do not constitute a fire hazard, create a nuisance, and are maintained in a safe condition. Such displays shall not be illuminated for more than forty-five (45) days per calendar year.

14. Water Features: Lighting in swimming pools and other water features governed by Article 680 of the National Electrical Code.

~~15. Oil and Gas Exploration and Production: Outdoor lighting in association with oil and gas exploration and production operations and related facilities shall be exempt from this chapter and are regulated by the provisions of Chapter 19.98 of the Kern County Zoning Ordinance.~~

~~16.~~ 15. Temporary Event Lighting: Temporary lighting for special events that does not conform to this chapter shall be reviewed as part of an application for a

Temporary Event Permit (TEP), pursuant to Chapter 19.08.340 of the Kern County Zoning Ordinance. Any temporary lighting exemption approved via the TEP process shall be utilized for a period of time that exceeds a combined total of twelve (12) combined days on any one (1) parcel during a calendar year. Exemptions are renewable for a period of not more than twelve (12) additional combined days. Requests for renewal of a temporary exemption shall be processed in the same manner as the original request. No outdoor light fixtures shall be exempted from this chapter for more than twenty-four (24) days combined during a calendar year.

~~17.~~ 16. Steeples: Lighting used to illumination the tall ornamental tower that forms the superstructure of a church, temple, office building, etc., shall be exempt from this chapter.

~~18.~~ 17. Temporary Agricultural Activities: Lighting used to illuminate temporary agricultural activities such as harvesting on property zoned A (Exclusive Agriculture) or A-1 (Limited Agriculture) and lasting no more than twelve (12) consecutive days and no more than twenty four (24) combined days on any one parcel during a calendar year.

C H A P T E R 19.50

FLOODPLAIN PRIMARY (FPP) DISTRICT

19.50.130 SPECIAL REVIEW PROCEDURES AND DEVELOPMENT STANDARDS

A. All development within the FPP District is subject to the requirements of the Flood Damage Prevention Ordinance, Chapter 17.48 of this code.

B. Development in the FPP District shall comply with the interpretations and provisions of Chapter 19.08 of this title.

C. Oil or gas exploration and production shall comply with Section 19.98.~~050~~060 and the following standards:

1. The following uses are permitted within the FPP District if they will not obstruct flows, will not cause peripheral flooding of other properties, will not cause any increase in flood levels during the occurrence of the base flood discharge, will be resistant to floatation and immune to extensive damage by flooding, and will not endanger life or property:

   (a) All oil or gas wells, including pumps and all other associated equipment.

   (b) Feasible remedial work, improvements, and flood-proofing of facilities.

2. No oil or gas well shall be drilled on the slope or within ten (10) feet of the top or toe of the bank of a river or stream located within the FPP District. The required

setback on the top of bank shall be measured from an imaginary plane on a slope two (2) horizontal to one (1) vertical projected upward from the toe of the existing bank.

3. All oil or gas wells in the FPP District, including pumps and all other associated equipment, shall be designed such that they are resistant to damage by flooding.

4. All pipelines in the FPP District shall be flood-proofed by burial to sufficient depth to prevent rupture during flood conditions or by suspension at least two (2) feet above the surface of the base flood. Supports for elevated pipelines shall also carry a catwalk to facilitate removal of debris caught by supports during floods.

5. The location of all buried pipelines shall be recorded on appropriate maps by the company that owns said pipelines, and the maps shall be made available to any public agency that shall request a copy.

6. All drilling, redrilling, and producing, including remedial work, well pulling, work-overs, and deepening, shall conform to all applicable fire, safety, spacing, and environmental State law and regulations.

7. Proven technological improvements generally accepted and used in drilling and production methods shall be adopted as they may from time to time become available, if capable of reducing factors of nuisance and annoyance.

8. Prior to the commencement of any drilling, a copy of a Spill Prevention Control and Countermeasure Plan, as required by the United States Environmental Protection Agency, shall be filed with the Kern County ~~Engineering and Survey Services~~ Public Works Department.

9. All pumps expected to be inaccessible during times of flood shall be equipped with an accessible remote switch to shut off the pumps during emergencies.

10. The derrick, all boilers, and all other drilling equipment used pursuant to this chapter to drill any well hole or to repair, clean out, deepen, or redrill any completed or drilling well shall be removed within ninety (90) days after completion of production tests following completion of such drilling, or after abandonment of any well, unless such derrick, boilers, and drilling equipment are to be used within a reasonable time limit, determined by the Kern County ~~Engineering and Survey Services~~ Public Works Department, for the drilling of another well or wells on the premises.

11. After any well has been placed in production, no earthen sumps shall be used for the storage of petroleum or gas.

12. Within ninety (90) days after any well has been placed in production or after its abandonment, earthen sumps used in drilling or production or both shall be

emptied by vacuum truck or other approved means, then filled, and the drilling site restored as nearly as practicable to a uniform grade, unless such sumps are to be used within a reasonable time limit, as determined by the Kern County ~~Engineering and Survey Services~~ Public Works Department.

13. Any derrick used for servicing operations shall be of the portable type; provided, however, that upon presentation of proof that the well is of such depth or has such other characteristics, or for other cause, that a portable-type derrick will not properly service such well, the Kern County ~~Engineering and Survey Services~~ Public Works Department may approve the use of a standard type of derrick.

14. Directional and warning signs, and those required for identification of the well, shall be constructed, erected, placed, or maintained on the premises, except those required by law to be displayed in connection with the drilling or maintenance of the well.

15. If a producing or service well is not secured twelve (12) months from the date of commencement of drilling operations or any extended period granted by the Kern County ~~Engineering and Survey Services~~ Public Works Department, the premises shall be restored to the original condition as nearly as practicable to do so. If at the expiration of the twelve- (12-) month period, the drilling program has not been completed, the Kern County ~~Engineering and Survey Services~~ Public Works Department may, upon a written request, grant an additional period of time as requested for the completion of such drilling program.

C H A P T E R 19.66

PETROLEUM EXTRACTION (PE) COMBINING DISTRICT

19.66.020 PERMITTED USES

The following uses and all others determined to be similar to these uses pursuant to Sections 19.08.030 through 19.08.080 of this title are permitted in a PE District:

A. Wells for the exploration for and development and production of oil or gas or other hydrocarbon substances if the well or wells are located more than ~~three~~two hundred and ten (~~300~~210) feet away from any existing dwelling or existing building utilized for commercial purposes, excluding those premises utilized solely for storage of equipment, material, household goods, or similar material.

B. Deepening or redrilling, within the existing well bore, of any well used for the production or development of oil or gas or other hydrocarbon substances, or the replacement of any production facility which did not require a conditional use permit on the date drilling began or the date the facility was installed.

C. Drilling of a replacement well when the original well did not require a conditional use permit, and where the original well has been abandoned in accordance with California Division of Oil and Gas regulations and drilling of a replacement well commences within one (1) year of the conclusion of abandonment procedures, and the replacement well is located within twenty (20) feet of the original well or is farther from any existing dwelling or commercial building than the original well.

D. Uses permitted by the base district with which the PE District is combined.

19.66.030 USES PERMITTED BY A CONDITIONAL USE PERMIT

The following uses and all others determined to be similar to these uses pursuant to Sections 19.08.030 through 19.08.080 of this title are permitted in a PE District subject to securing a conditional use permit in accordance with the procedures set out in Chapter 19.104 of this title:

A. Wells for the exploration for and development and production of oil or gas or other hydrocarbon substances if the well or wells are located within ~~three~~two hundred and ten (~~300~~210) feet of any existing dwelling or existing building utilized for commercial purposes, excluding those premises utilized solely for storage of equipment, material, household goods, or similar material.

B. Conditional uses permitted by the base district with which the PE District is combined.

19.66.080 HEIGHT LIMITS

Height limit requirements in a PE District are as follows:

A. No height limit on derricks and other equipment used during the exploration and drilling phase of development.

B. Pumping units shall not exceed ~~thirty-five (35)~~ eighty (80) feet in height.

C. All other uses permitted by the base district shall conform to the height limits of the base district with which the PE District is combined.

19.66.130 SPECIAL REVIEW PROCEDURES AND DEVELOPMENT STANDARDS

All drilling and hydrocarbon development activities in a PE District shall be carried out in accordance with the standards and procedures set out in Section 19.98.~~050~~060 of this title. All activities subject to an Oil and Gas Conformity Review or Minor Activity Review shall comply with the provisions of Section 19.98.060 of the title.

C H A P T E R 19.102

PERMIT PROCEDURES

ARTICLE II. MINISTERIAL PERMITS ISSUED BY THE PLANNING DIRECTOR

19.102.040 GENERAL REQUIREMENTS — PERMIT TYPES

The ministerial permits specified in this title for review pursuant to this article shall be issued by the Planning Director upon submission of an application containing the information specified in applicable sections of this title and a determination by the Planning Director that the proposed use or development meets the development standards and conditions specified in the applicable section or sections of this title. These permits include:

A. CRV recycling center permit (Section 19.08.480)

B. Temporary animal permit plot plan review (Sections 19.14.130 and 19.60.130 through 19.60.160)

C. Extensions for temporary mobilehomes and recreational vehicles (Sections 19.16.130 and 19.18.160)

D. Mobilehome park plot plan review (Sections 19.26.130 through 19.26.190)

E. Minor plan modifications (Section 19.52.130 through 19.52.180, 19.56.130 through 19.52.180, 19.56.130 through 19.56.200, 19.58.130 through 19.58.180, and 19.100.050

F. Commercial wind farm plot plan review (Section 19.64.130 through 19.64.150)

G. Geologic hazard plot plan review (Section 19.68.130 through 19.68.150)

H. Special development standards plot plan review (Sections 19.80.040 through 19.80.070)

I. Off-street parking plot plan review not in conjunction with a ministerial permit (Sections 19.82.100 through 19.82.130)

J. Landscaping plot plan review not in conjunction with a ministerial permit (Sections 19.86.070 through 19.86.100)

K. Density bonus permit (Sections 19.92.030 through 19.92.060)

L. Home occupation permit (Sections 19.94.050 through 19.94.080)

M. Production water injection wells for the purpose of disposing of production wastewater produced in the same oilfield in which the injection well is located (Section 19.98.030)

N. ~~Oil and gas plot plan review (Section 19.98.030)~~ Oil and Gas Conformity Review and Minor Activity Review (Section 19.98.070 through 19.98.120)

O. Large family day-care permit - no hearing (Sections 19.96.030 through 19.96.060)

P. Temporary batch plant (thirty (30) days or less) plot plan review (Section 19.08.290)

Q. Secondary residential unit plot plan review (Section 19.90.040 through 19.90.060)

R. Truck parking as accessory to residential use permit (Section 19.08.252)

C H A P T E R 19.108

NONCONFORMING USES, STRUCTURES, AND LOTS

19.108.040 NONCONFORMING USES OF LAND

A. A nonconforming use of land shall not be expanded, extended, or intensified in any way with respect to scope, duration, or frequency of the use, except as follows:

The Planning Commission may authorize the expansion or intensification of legal, nonconforming uses if, after consideration at a public hearing noticed pursuant to Section 19.102.150, both of the following findings can be made:

1. The proposed expansion will not create any significant adverse impacts to surrounding properties.

2. The only other remedy to bring the use into conformance would require an amendment to the applicable General Plan.

Public hearing notification shall consist of mailing notices to property owners having property within three hundred (300) feet from the exterior boundaries of the subject property. Published notice in a local newspaper shall not be required, unless the Planning Director determines that such additional notice is warranted. In consideration of a request to expand or intensify a legal, nonconforming use, the terms and conditions for any approval shall be as specified in Section 19.104.050.

B. A nonconforming use of land shall not be changed to or replaced by any other use except a use that complies with the regulations of the zoning district in which the subject property lies.

C. Any nonconforming use of land that has been discontinued or abandoned for a period of one (1) year or more shall not be reestablished. In instances where the assessed value of improvements on the property exceeds fifty thousand dollars ($50,000), as determined by the County Assessor, the nonconforming use shall not be reestablished if the use has been discontinued or abandoned for a period of two (2) years or more.

D. The exploration for or development or production of oil, gas, or other hydrocarbon substances ~~shall not be considered nonconforming uses of land~~ lawfully constructed prior to MONTH, DAY, YEAR shall be considered nonconforming uses of land. Any subsequent ~~alteration or expansion of these facilities is~~ maintenance, production, operations, well stimulation treatments, alterations or expansion, and other activities involving existing wells, including ancillary facilities, are allowed subject to Chapter 19.98 of this Title.

E. A legal nonconforming dwelling in any zone district may be replaced with the approval of the Planning Director, provided that all applicable requirements of this title, other than density or conditional use permit requirements, can be satisfied.

F. Any use of land continuously in existence for a period of twenty (20) years or more may qualify as a legal, nonconforming use pursuant to Section 19.108.080, irrespective of when zoning requirements became effective for that property, provided that the Planning Director determines that the use is not significantly incompatible with surrounding land uses and that there is no significant threat to the public health, safety, and welfare in allowing the use to continue.

19.108.060 NONCONFORMING SETBACKS

Any use permitted under the provisions of this title that currently exists with nonconforming setbacks may:

1. ~~b~~Be replaced in the same location if damaged or destroyed by fire, earthquake, explosion, or act of God regardless of the cost of such reconstruction; or
2. Be maintained in accordance with the provisions of this Title provided there is no greater degree of nonconformity with regard to setback.

C H A P T E R 19.08

INTERPRETATIONS AND GENERAL STANDARDS

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19.08.480 BEVERAGE CONTAINER RECYCLING (CRV) COLLECTION CENTER

~~19.08.230 PRIVATE OIL PIPELINES AND RELATED FACILITIES — COUNTY REVIEW~~

~~The provisions of this title shall not be construed to apply to the construction, installation, operation, and maintenance of pipelines for the transmission of crude oil or natural gas operated by private enterprises;~~

~~provided, however, before any right of way for transmission lines is acquired for regional or interstate facilities, the proposed route shall be submitted for the Planning Director review and recommendation.~~

19.08.230 REGIONAL OR INTERSTATE TRANSMISSION PIPELINE FACILITIES — COUNTY REVIEW

Before any right-of-way for transmission lines is acquired for regional or interstate facilities, the proposed route shall be submitted for the Planning Director review and recommendation.

~~**19.08.260 OIL AND GAS EXPLORATION BY SCIENTIFIC MEANS**~~

~~The provisions of this title shall not be construed to apply to the exploration for oil and gas by scientific means.~~

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C H A P T E R 19.26

MOBILEHOME PARK (MP) DISTRICT

19.26.030 USES PERMITTED WITH A CONDITIONAL USE PERMIT

The following uses are permitted in the MP District with a conditional use permit:

A. RECREATION, ENTERTAINMENT, AND TOURIST FACILITIES

— Recreational vehicle park, except as permitted by Subsection 19.26.020.B

B. MISCELLANEOUS USES

— Drainage sump
— Water system, large

— Water treatment plant

C. RESOURCE EXTRACTION AND ENERGY DEVELOPMENT USES

— Oil or gas exploration and production pursuant to Chapter 19.98 of this title

C H A P T E R 19.12

EXCLUSIVE AGRICULTURE (A) DISTRICT

19.12.020 PERMITTED USES

E. RESOURCE EXTRACTION AND ENERGY DEVELOPMENT USES

~~— Cogeneration facility or steam generators, primarily intended for steam production used for production of oil or gas, excluding coal fired~~

— Electrical power generating plant in conjunction with a biogas recovery system associated with a confined animal facility, subject to the criteria specified in Section 19.12.130.G

— Explosives storage, temporary

— Mineral exploration

— Oil or gas exploration and production pursuant to Chapter 19.98 of this title

— Solar energy electrical generators which are accessory to a permitted or conditionally permitted use and where the power generated does not exceed the total on-site power demand

— Small wind energy system, pursuant to Section 19.08.415, except when all criteria specified below for wind-driven electrical generators will be satisfied , in which case a small wind energy system permit pursuant to Section 19.08.415 shall not be required

— Wind-driven electrical generators when accessory to a permitted or conditionally permitted use where:

1. The system employed is designed to supplement other electricity sources, or as an accessory use to existing buildings or facilities, wherein the power generated is used primarily for on-site consumption.

2. The wind generators are located a minimum distance of one times (1x) the overall machine height from any property line.

3. The parcel on which the wind generators will be erected does not abut a residential zoning district.

4. The wind generator(s) will be located a minimum of one and one-half (1 1/2) times the overall height to any off-site dwelling.

5. The proposed height of the wind turbines does not exceed the maximum heights specified in Figure 19.08.160.

19.12.030 USES PERMITTED WITH A CONDITIONAL USE PERMIT

G. RESOURCE EXTRACTION AND ENERGY DEVELOPMENT USES

— Backfilling of surface mines with inert, nonorganic fill material, limited to construction and demolition wastes, where a Solid Waste Facility Permit is not required

— ~~Coal fired~~ ~~c~~Cogeneration facility or steam generators, primarily intended for production of oil or gas

— Concrete or asphalt batch plant

— Dam, small hydro

— Dam, large hydro

— Electrical power generating plant

— Explosives storage, permanent

— Mining and mineral extraction pursuant to Chapter 19.100 of this title

— Rock, gravel, sand, concrete, aggregate, or soils crushing, processing, or distribution

— Solar energy electrical generators when not accessory to a permitted or conditionally permitted use

— Wind-driven electrical generators when accessory to a permitted or conditionally permitted use which do not comply with the installation standards specified in Section 19.12.020.E.

C H A P T E R 19.14

LIMITED AGRICULTURE (A-1) DISTRICT

19.14.020 PERMITTED USES

E. RESOURCE EXTRACTION AND ENERGY DEVELOPMENT USES

~~— Cogeneration facility or steam generators, primarily intended for steam production, used for production of oil and gas, excluding coal fired~~

— Mineral exploration

— Oil or gas exploration and production pursuant to Chapter 19.98 of this title, including the temporary installation of commercial coaches as accessory to this activity, not to exceed a two- (2-) year period

— Solar energy electrical generator which are accessory to a permitted or conditionally permitted use and where the power generated does not exceed the total on-site power demand

— Small wind energy system, pursuant to Section 19.08.415

19.14.030 USES PERMITTED WITH A CONDITIONAL USE PERMIT

G. RESOURCE EXTRACTION AND ENERGY DEVELOPMENT USES

— ~~Coal fired c~~Cogeneration facility or steam generators, primarily intended for production of oil or gas

— Concrete or asphalt batch plant, temporary

— Electrical power generating plant, excluding nuclear or coal powered

— Mining and mineral extraction pursuant to Chapter 19.100 of this title

— Solar energy electrical generators when not accessory to a permitted or conditionally permitted use

— Wind-driven electrical generators, commercial

C H A P T E R 19.38

MEDIUM INDUSTRIAL (M-2) DISTRICT

19.38.020 PERMITTED USES

H. RESOURCE EXTRACTION AND ENERGY DEVELOPMENT USES

— Cogeneration facility or steam generators, not primarily intended for production oil or gas, excluding coal fired

— Electrical power generating plant, excluding nuclear or coal

— Mineral exploration

— Oil or gas exploration and production pursuant to Chapter 19.98 of this title

— Solar energy electrical generators which are accessory to a permitted or conditionally permitted use and where the power generated does not exceed the total on-site power demand

— Small wind energy system, pursuant to Section 19.08.415

19.38.030 USES PERMITTED WITH A CONDITIONAL USE PERMIT

G. RESOURCE EXTRACTION AND ENERGY DEVELOPMENT USES

— ~~Coal fired c~~Cogeneration facility or steam generators

— Mining and mineral extraction pursuant to Chapter 19.100 of this title

— Ore reduction

— Potash manufacture

— Rock, gravel, sand, concrete, aggregate, or soils crushing, processing, or distribution

— Solar energy electrical generators when not accessory to a permitted or conditionally permitted use

— Wind generators, commercial

C H A P T E R 19.40

HEAVY INDUSTRIAL (M-3) DISTRICT

19.40.020 PERMITTED USES

H. RESOURCE EXTRACTION AND ENERGY DEVELOPMENT USES

- Cogeneration facility or steam generators, not primarily intended for production oil or gas, excluding coal fired
- Electrical distribution stations
- Electrical power generating plants, excluding nuclear and coal
- Mineral exploration
- Oil or gas exploration and production pursuant to Chapter 19.98 of this title
- Rock, gravel, sand, concrete, aggregate, or soils crushing, processing, or distribution
- Solar energy electrical generators which are accessory to a permitted or conditionally permitted use and where the power generated does not exceed the total on-site power demand
- Small wind energy system, pursuant to Section 19.08.415
- Wind-driven electrical generators when accessory to a permitted or conditionally permitted use where:

    1. The annual amount of power generated does not exceed the total on-site annual power demand.
    2. The wind generators are located a minimum distance of one (1) times the overall machine height from any property line.
    3. The parcel on which the wind generators will be erected does not abut a residential zoning district.
    4. The wind generator(s) will be located a minimum of one (1) times the overall height to any off-site dwelling.
    5. The proposed height of the wind turbines does not exceed the maximum heights specified in Figure 19.08.160.

19.40.030 USES PERMITTED WITH A CONDITIONAL USE PERMIT

G. RESOURCE EXTRACTION AND ENERGY DEVELOPMENT USES

- ~~Coal fired c~~Cogeneration facility or steam generators

— Electrical power generating plant, nuclear or coal powered

— Mining and mineral extraction pursuant to Chapter 19.100 of this title

— Solar energy electrical generators when not accessory to a permitted or conditionally permitted use

— Wind-driven electrical generators, commercial

— Wind-driven electrical generators when accessory to a permitted or conditionally permitted use which do not comply with the installation standards specified in Section 19.12.020.E.

C H A P T E R 19.46

NATURAL RESOURCE (NR) DISTRICT

19.46.020 PERMITTED USES

E. RESOURCE EXTRACTION AND ENERGY DEVELOPMENT USES

— Accessory structures and equipment storage for natural resource extraction or processing uses

~~— Cogeneration facility or steam generators, primarily intended for steam production for another permitted use, excluding coal fired~~

— Explosives storage, temporary, subject to approval by the Kern County Fire Department

— Mineral exploration

— Oil or gas exploration and production pursuant to Chapter 19.98 of this title

— Solar energy electrical generators which are accessory to a permitted or conditionally permitted use and where the power generated does not exceed the total on-site power demand

— Small wind energy system, pursuant to Section 19.08.415

19.46.030 USES PERMITTED WITH A CONDITIONAL USE PERMIT

G. RESOURCE EXTRACTION AND ENERGY DEVELOPMENT USES

— ~~Coal fired~~ cCogeneration facility or steam generators

— Concrete or asphalt batch plant

— Electric power generating plant

— Explosives storage

— Mining and mineral extraction pursuant to Chapter 19.100 of this title

— Rock, gravel, sand, concrete, aggregate, or soils crushing, processing, or distribution

— Solar energy electrical generators when not accessory to a permitted or conditionally permitted use

— Wind-driven electrical generators, commercial or domestic

C H A P T E R 19.44

OPEN SPACE (OS) DISTRICT

19.44.030 USES PERMITTED WITH A CONDITIONAL USE PERMIT

The following uses and all others determined to be similar to these uses pursuant to Sections 19.08.030 through 19.08.080 of this title are all permitted in the OS District subject to securing a conditional use permit in accordance with the standards and procedures set out in Chapter 19.104 of this title:

A. RECREATION, ENTERTAINMENT, AND TOURIST FACILITIES

— Park

— Roads or trails for motor driven vehicles, excluding race courses

B. INSTITUTIONAL USES

— Public service uses

C. TRANSPORTATION FACILITIES

— Auto parking lot

D. RESOURCE EXTRACTION AND ENERGY DEVELOPMENT USES

— Oil or gas exploration and production pursuant to Chapter 19.98 of this title

~~D~~E. MISCELLANEOUS USES

— Restrooms and shelters

— Scientific study sites for the systematic exploration and classification of archaeological, anthropological, or historic artifacts or remains

12.1.3 Summary of Impacts, Mitigation Measures & Significance Conclusions

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
Aesthetics				
Impact 4.1-1 Have a Substantial Adverse Effect on a Scenic Vista	Less than significant	No mitigation measures are proposed.	Less than significant	All Tiers
Impact 4.1-2 Substantially Damage Scenic Resources, Including, but Not limited to, Trees, Rock Outcroppings, and Historic Buildings within a State Scenic Highway	Less than significant	No mitigation measures are proposed.	Less than significant	All Tiers
Impact 4.1-3 Substantially Degrade the Existing Visual Character or Quality of the Site and its Surroundings	Potentially Significant	**MM 4.1-1** The Applicant shall use existing roads to access oil production areas, or shall construct new roads (or extend existing roads) to minimize the amount of disturbance without impeding existing surface use. **MM 4.1-2** All derricks, boilers, and other drilling equipment used to drill, repair, clean out, deepen or redrill any well with oil, gas, or other hydrocarbon shall be removed from the drill site within 90 days after completion of production tests or after abandonment of any well. Earthen sumps used in drilling shall be filled within 90 days after any well has been placed in production (unless such sumps are to be used within six months for the drilling of another well), and any sump used in productions shall be filled after its abandonment and restored to a uniform grade within ninety days. **MM 4.1-3** Sumps and ponds shall be permitted only to the extent authorized by the Central Valley Regional Water Quality Control Board (via waiver, Waste Discharge Requirements, or other form of authorized written documentation) and shall comply with all applicable legal requirements and mitigation measures for sumps serving as storage, percolation or evaporation ponds for produced water. **MM 4.1-4** Except where located within agricultural land, new oil or gas tanks located within 200 feet of any sensitive receptor shall be partially screened from public view by shrubs, trees or solid screen fencing. Similarly, new pump sites (including multiple well pump sites) within 500 feet of any dwelling must be surrounded by a fence, at least 6 feet in height, constructed of dark-colored chain-link with wood or metal slates, dark green or brown fabric material, or other more visually restrictive fencing material. The height of all new pumping units shall not exceed 80 feet, and shall be painted in accordance with the Kern County Zoning Ordinance. **MM 4.1-5** Project signage is limited to directional, warning, safety, security and identification signs in connection with oil, gas, or other hydrocarbon drilling and development operations in accordance with Chapter 19.84.135 of the Kern County Zoning Ordinance. For any signage necessary for wayfinding, safety, or security, the Applicant shall use the minimum necessary to adequately communicate the required information.	Significant and unavoidable	All Tiers
Impact 4.1-4 Create a New Source of Substantial Light or Glare that Would Adversely Affect Day or Nighttime Views in the Area	Potentially significant	**MM 4.1-6** Permanent nighttime lighting that will be installed for new facility operations will only be lighting required for safety or security. During operations when the lighting is in use, lighting for safety and security will be shielded and oriented downward, bare bulbs will be fully screened from view from sensitive viewing receptors such as residences, and on-demand lighting and/or timers will be used to minimize visual impacts of lighting. In doing so, the Applicant shall comply with the standards in the amended Chapter 19.81 – Outdoor Lighting "Dark Sky Ordinance."	Significant and unavoidable	All Tiers

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
Impact 4.1-5 Contribute to Cumulative Aesthetic Impacts	Cumulatively considerable	Implement MM 4.1.1 through 4.1.6, as described above. No additional feasible mitigation measures exist to avoid or reduce significant adverse cumulative impacts to aesthetics to a less than significant level.	Significant unavoidable	All Tiers
Agricultural Resources				
Impact 4.2-1 Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland) to Non-Agricultural Use	Potentially significant	**MM 4.2-1** For new oil and gas exploration and extraction activities that are: 1) on land designated Prime, Farmland of Statewide Importance or Unique Farmland; and 2) that have been actively farmed 5 years or more out of the last 10 years, agricultural land mitigation is required at a ratio of 1:1. The 1:1 ratio is applied to actual ground disturbance area for oil and gas activities (inclusive of temporary construction and permanent operational impact areas), but excludes non-farmed existing areas such as roads, and tank and maintenance areas, and lands for which agricultural mitigation has previously been provided at a 1:1 ratio. Prior to ground disturbing activity, the Applicant shall submit to the County written evidence of completion of one or more of the following measures to achieve this 1:1 mitigation ratio: a. Funding and/or purchasing agricultural conservation easements or similar instrument acceptable to the County (to be managed and maintained by an appropriate entity). b. Purchasing of credits for conservation of agricultural lands from an established agricultural farmland mitigation bank or an equivalent agricultural farmland preservation program managed by the County. c. Restoring agricultural lands to productive use through the removal of legacy oil and gas production equipment, including well abandonment and removal of surface equipment. d. Participating in any agricultural land mitigation program adopted by Kern County that provides equal or more effective mitigation than the measures listed above. Mitigation lands shall meet the definition of Prime Farmland, Farmland of Statewide Importance, and/or Unique Farmland, and be of similar or higher agricultural quality as the lands, as established by the California Department of Conservation. Completion of the selected measure or, with the Kern County Planning and Community Development Director's approval, a combination of measures, are to occur on qualifying land in Kern County. If qualifying lands cannot be found in Kern County, upon written application to the County, the mitigation lands may be located within the San Joaquin Valley (San Joaquin, Stanislaus, Merced, Fresno, Madera, Kings, Tulare, or Kern County) or outside the San Joaquin Valley with written evidence that the same or equivalent crops can be produced on the mitigation land. Mitigation consisting of removal of legacy equipment within active agricultural fields shall not require recordation of an agricultural conservation easement or conservation easement. Available mitigation funding shall be prioritized for acquisition of large blocks of agricultural land for preservation, and removal of legacy equipment, to minimize and mitigate fragmentation and edge impacts.	Less than significant	All Tiers
Impact 4.2-2 Conflict with Existing Zoning For Agricultural Use or a Williamson Act Contract	Less than significant	No mitigation measures are required.	Less than significant	All Tiers
Impact 4.2-3 Conflict with Existing Zoning for, or Cause Rezoning of, Forest Land or Timberland	No impact	No mitigation measures are required.	No impact	All Tiers

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
Impact 4.2-4 Result in the Loss of Forest Land or Conversion of Forest Land to Non-Forest Use	No impact	No mitigation measures are required.	No impact	All Tiers
Impact 4.2-5 Involve Other Changes in the Existing Environment Which, Because of Their Location or Nature, Could Result in Conversion of Farmland to Non-agricultural Use or Conversion of Forest Land to Non-Forest Use	Potentially significant	**MM 4.2-2** To protect crops and structures adjacent to oil and gas activities on active agricultural lands, each Applicant/operator shall comply with the following mitigation measures set forth in other chapters of this Environmental Impact Report: a. Surface water runoff and drainage on the well pads shall be mitigated as described in mitigation measures for Hydrology and Water Quality. b. A Spill Prevention Countermeasure and Contingency Plan or Division of Oil Gas and Geothermal Resources Assembly Bill 1960 spill plan, as applicable, shall be prepared for the site and oil and chemical spills treated in accordance with the Division of Oil Gas and Geothermal Resources Senate Bill 4 Regulations for the site to protect adjacent farmland, as described in mitigation measures for Hazards. c. Speed limits for oil and gas trucks shall be posted on unpaved roads to reduce dust generation; in the absence of signage, speed limits shall be limited to 25 miles per hour (or an alternate, more stringent dust suppression standard as adopted by the San Joaquin Valley Air Pollution Control District), and Applicants shall attest that employees have been trained in the appropriate speed limits. d. Unpaved roads shall be watered or otherwise treated for dust suppression and control as described in Mitigation Measure for Air Quality, unless speeds are restricted to 15 mph. e. Vehicle tracking control shall be installed where unpaved roads intersect with public paved roads, to prevent tracking of mud, dust, and weed seeds off site, unless speeds are restricted to 15 mph. This shall consist of a 50-foot length of a 3 inch-thick layer of gravel one inch or larger in diameter (or an alternate, more stringent dust suppression technique as approved by the San Joaquin Valley Air Pollution Control District). f. Stormwater control shall be required at construction sites during well drilling, reworking, and/or decommissioning as described in mitigation measures for Hydrology. g. Hazardous materials shall be stored within secondary containment as described in mitigation measures for Hazards. h. Overhead electrical or communication lines shall be shown on the Site Plan, and shall be aligned to the greatest extent feasible with existing access roads and the minimum distance between the access road and the well installation or other oil and gas facility, parallel to tree or row crops, described further in mitigation measures for Public Utilities. If the use of existing roads is not feasible, lines shall be routed to minimize surface disturbance and minimize the impacts to surface activity. i. Underground pipelines serving the Project shall be shown on the Site Plan with locations marked and recorded with USAA, and periodically inspected and maintained as described in mitigation measures for Hazards.	Less than significant	All Tiers
Impact 4.2-6 Result in the Cancellation of an Open Space Contract Made Pursuant to the California Land Conservation Act of 1965 or Farmland Security Zone Contract for Any Parcel of 100 or More Acres	No impact	No mitigation measures are required.	No impact	All Tiers

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
Impact 4.2-7 Cumulative Impacts to Agricultural or Forest Resources	Potentially significant	Implement mitigation measure MM 4.2-1 and MM 4.2-2.	Significant and unavoidable	All Tiers
Air Quality				
Impact 4.3-1 Conflict With or Obstruct Implementation of the Applicable Air Quality Plan	Potentially significant	**MM 4.3-1** Consistent with the requirements of the San Joaquin Valley Air Pollution Control District Regulation II-Permits, the Applicant shall obtain an Authority to Construct permit and a Permit to Operate for any facility or equipment requiring a permit from the San Joaquin Valley Air Pollution Control District, such as stationary sources required to obtain permits pursuant to District Rule 2010. All emissions increases from permitted equipment shall comply with District Rule 2201. **MM 4.3-2** The Applicant shall develop and implement a Fugitive Dust Control Plan in compliance with San Joaquin Valley Air Pollution Control District fugitive dust suppression regulations to further reduce emissions, during construction, of particulate matter that is 10 microns or less and 2.5 microns or less in diameter. The Fugitive Dust Control Plan shall include: a. Name(s), address(es), and phone number(s) of person(s) responsible for the preparation, submission, and implementation of the plan. b. Description and location of operation(s). c. Listing of all fugitive dust emissions sources included in the operation. d. The following dust control measures shall be implemented: 1. All on-site unpaved roads shall be effectively stabilized using water or chemical soil stabilizers that can be determined to be as efficient as or more efficient for fugitive dust control than California Air Resources Board approved soil stabilizers, and that shall not increase any other environmental impacts including loss of vegetation. 2. All material excavated or graded will be sufficiently watered to prevent excessive dust. Watering will occur as needed with complete coverage of disturbed areas. The excavated soil piles will be watered as needed to limit dust emissions to less than 20% opacity or covered with temporary coverings. 3. Construction activities that occur on unpaved surfaces will be discontinued during windy conditions when winds exceed 25 miles per hour and those activities cause visible dust plumes. Construction activities may continue if dust suppression measures are used to minimize visible dust plumes. 4. Track-out debris onto public paved roads shall not extend 50 feet or more from an active operation and track-out shall be removed or isolated such as behind a locked gate at the conclusion of each workday, except on agricultural fields where speeds are limited to 15 mph. 5. All hauling materials should be moist while being loaded into dump trucks. 6. All haul trucks hauling soil, sand, and other loose materials on public roads shall be covered (e.g., with tarps or other enclosures that would reduce fugitive dust emissions). 7. Soil loads should be kept below 6 inches or the freeboard of the truck. 8. Drop heights should be minimized when loaders dump soil into trucks.	Less than significant	All Tiers

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		9. Gate seals should be tight on dump trucks. 10. Traffic speeds on unpaved roads shall be limited to 25 miles per hour. 11. All grading activities shall be suspended when visible dust emissions exceed 20%. 12. Other fugitive dust control measures as necessary to comply with San Joaquin Valley Air Pollution Control District Rules and Regulations. 13. Disturbed areas should be minimized. 14. Disturbed areas should be re-vegetated as soon as possible after disturbance if area is no longer needed for oil and gas activities. **MM 4.3-3** All off-road construction diesel engines not registered under California Air Resources Board's Statewide Portable Equipment Registration Program, which have a rating of 50 horsepower or more, shall meet, at a minimum, the Tier 3 California Emission Standards for Off-road Compression-Ignition Engines as specified in California Code of Regulations, Title 13, section 2423(b)(1) unless that such engine is not available for a particular item of equipment. In the event a Tier 3 engine is not available for any off-road engine larger than 100 horsepower, that engine shall be equipped with retrofit controls that would provide nitrogen oxides and particulate matter emissions that are equivalent to Tier 3 engine. a. All equipment shall be turned off when not in use. Engine idling of all equipment shall be limited to five minutes, except under exemptions specified in California Code of Regulations Title 13 Section 2449(d)(2)(A). b. All equipment engines shall be maintained in good operating condition and in proper tune per manufacturers' specifications. **MM 4.3-4** To further reduce emissions of oxides of nitrogen from on-road heavy-duty diesel haul vehicles: a. 2007 engines or pre-2007 engines shall comply with California Air Resources Board retrofit requirements set forth in California Code of Regulations Title 13 Section 2025. b. All on-road construction vehicles, except those meeting the 2007/California Air Resources Board-certified Level 3 diesel emissions controls, shall meet all applicable California on-road emission standards and shall be licensed in the State of California. This does not apply to worker personal vehicles. c. All on-road construction vehicles shall be properly tuned and maintained in accordance with the manufacturers' specifications.		
Impact 4.3-2 Violate Any Air Quality Standard as Adopted in (c)i or (c)ii, or Established by United States Environmental Protection Agency or Air District or Contribute Substantially to an Existing or Projected Air Quality Violation	Potentially significant	Implement MM 4.3-1 through MM 4.3-4, as described above.	Less than significant	All Tiers
Impact 4.3-3 Expose Sensitive Receptors to Substantial Pollutant Concentrations	Potentially significant	**MM 4.3-5** Construction: The Site Plan Application shall include a Site Vicinity Figure showing the location of any sensitive receptor(s) within 3,000 feet of the construction site (potential impact area) for the proposed new well or other ancillary facility or equipment (excluding pipelines).	Less than significant	All Tiers

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

<table>
<tr><th>Impact</th><th>Level of Significance before Mitigation</th><th>Mitigation Measure(s)</th><th>Level of Significance after Mitigation</th><th>Applicable Tier</th></tr>
<tr><td></td><td></td><td>
a. If there are no sensitive receptors within this potential impact area, then no construction mitigation measures shall be required.

b. If there are sensitive receptors within the potential impact area, then additional information must be provided showing the setback from the closest edge of the well pad to the property line of the nearest sensitive receptor. The minimum distances shall be as follows:
<table>
<tr><th>Well Depth (Feet)</th><th>Minimum Setback Distance from Well Site to Adjacent Property Line of an Existing Sensitive Receptor (Feet)</th></tr>
<tr><td colspan="2">Western Subarea</td></tr>
<tr><td>10,000</td><td>367</td></tr>
<tr><td>5,000</td><td>116</td></tr>
<tr><td>2,000</td><td>NA</td></tr>
<tr><td colspan="2">Central Subarea</td></tr>
<tr><td>10,000</td><td>367</td></tr>
<tr><td>5,000</td><td>116</td></tr>
<tr><td>2,000</td><td>NA</td></tr>
<tr><td colspan="2">Eastern Subarea</td></tr>
<tr><td>10,000</td><td>296</td></tr>
<tr><td>5,000</td><td>NA</td></tr>
<tr><td>2,000</td><td>NA</td></tr>
</table>
</td><td></td><td></td></tr>
</table>

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		c. If the above setbacks cannot be met, and for existing wells, the Applicant shall provide a site-specific or other risk assessment to the San Joaquin Valley Air Pollution Control District, which may include implementation of one or more of the following risk minimization measures, or other such measures that are demonstrated by the Applicant to the San Joaquin Valley Air Pollution Control District, to achieve a level of risk less than the threshold risk level, and shall provide confirmation from the San Joaquin Valley Air Pollution Control District that the activity that is the subject of the application will not exceed the risk threshold: 1. Placement of engines in the potential impact area away from the sensitive receptors. 2. Utilize directional drilling to locate rig away further from the sensitive receptor(s). 3. Use of late-model engines, low-emission diesel products, alternative cleaner fuels (e.g., natural gas or liquefied petroleum gas), engine retrofit technology, add-on devices such as diesel particulate filters or oxidation catalyst, and/or other options as such become available to reduce emissions from off-road and other equipment. 4. Utilize electricity line power if available. 5. Shutdown all equipment when not in use, and otherwise minimize engine idling by limiting idling to 15 minutes. 6. Use of automatic rigs. 7. Assist and pay to relocate residents to temporary lodging during well construction, drilling, and completion activities, if such residents voluntarily agree to such relocation. **MM 4.3-6** Applicants shall include in their Worker Environmental Awareness Program information on how to recognize the symptoms of Valley Fever and to promptly report suspected symptoms of work-related Valley Fever to a supervisor. Workers exposed to fugitive dust shall be provided with the option of using a filter fitted over their nose and mouth, secured by a strap, including training for appropriate mask practices as part of the Worker Environmental Awareness Training Program.		
Impact 4.3-4 Create Objectionable Odors Affecting a Substantial Number of People	Potentially significant	**MM 4.3-7** Applicant shall submit an Odor Complaint Management Plan to the County prior to receiving its first Site Plan conformity review approval. The Plan shall include a designated contact for odor complaints, creation of a log for odor complaints, and protocol for handling odor complaints. The odor log and report files shall be available for public review upon request.	Significant and unavoidable	All Tiers
Impact 4.3-5 Result in a Cumulatively Considerable Net Increase of any Criteria Pollutant for which the project Region is Nonattainment under an Applicable Federal or State Ambient Air Quality Standard (Including Releasing Emissions which Exceed Quantitative Thresholds for Ozone Precursors)	Potentially significant	Implement MM 4.3-1 through MM 4.3-4, as described above. **MM 4.3-8** For criteria emissions, not required to be offset under a District rule as described in MM 4.3-1, and for Project vehicle and other mobile source emissions, the County will enter into an emission reduction agreement with the San Joaquin Valley Air Pollution Control District, pursuant to which the Applicant shall pay fees to fully offset Project emissions of oxides of nitrogen, reactive organic gases, and particulate matter of 10 microns or less in diameter (including as applicable mitigating for reactive organic gases by additive reductions of particulate matter of 10 microns or less in diameter) (collectively, “designated criteria emissions”) to avoid any net increase in these pollutants. The air quality mitigation fee shall be paid to the County as part of the Site Plan review and approval process, and shall be used to reduce designated criteria emissions to fully offset Project emissions that are not otherwise required to be fully offset by District permit rules and regulations.	Significant and unavoidable	All Tiers

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)		Level of Significance after Mitigation	Applicable Tier
			As an alternative to paying the fee, an Applicant may reduce emissions for one or more designated criteria emissions through actual reductions in air emissions from other Applicant sources, as submitted to the County and validated by the District. This Project offset requirement alternative shall be enforced by the County and verified by San Joaquin Valley Air Pollution Control District, and must be approved in advance by the San Joaquin Valley Air Pollution Control District. If a voluntary emission reduction agreement is not executed by the County and San Joaquin Valley Air Pollution Control District, then each Applicant must mitigate for the full amount of designated criteria pollutants as verified by the San Joaquin Valley Air Pollution Control District, with evidence of such District-verified offsets presented as part of the Site Plan Conformity Review application documentation. Examples of feasible air emission reduction activities that may be funded by air quality fees paid by Applicant or proposed and implemented by the Applicant under the emission reduction agreement include, but are not limited to, the following: a. Replacing or retrofitting diesel-powered stationary equipment such as motors on generators, pumps and wells with electric or other lower-emission engines that are not subject to Title V reductions. b. Replacing or retrofitting diesel-powered school, transit, municipal and other community mobile sources such as buses, car fleets, and maintenance equipment, with electric or other lower-emission engines. c. Reducing emissions from public infrastructure sources such as water and wastewater treatment and conveyance facilities, and reducing water-related emissions through water conservation and reclamation. d. Funding lower-emission equipment and processes for local businesses, schools, non-profit and religious institutions, hospitals, city and county facilities.		
Biological Resources					
Impact 4.4-1 Have a Substantial Adverse Effect, either Directly or through Habitat Modifications, on any Species Identified as a Candidate, Sensitive, or Special Status Species in Local or Regional Plans, Policies, or Regulations or by the California Department of Fish and Wildlife or the United States Fish and Wildlife Service	Potentially significant	**MM 4.4-1**	A qualified biologist shall conduct a biological reconnaissance survey in potential special-status species habitat to advise the project proponent of potential project impacts, potential surveying needs, and advise on the need for focused special status surveys. Early consultation with United States Fish and Wildlife Service and California Department of Fish and Wildlife would confirm the biologist's advice and/or inform project proponents of additional recommendations. Based on the information gathered from the biological reconnaissance survey and any informal consultation with United States Fish and Wildlife Service and California Department of Fish and Wildlife, focused/protocol surveys shall be conducted by a qualified or permitted biologist (whichever is applicable) well in advance of ground disturbing activities to determine the presence/absence of sensitive species protected by state and federal Endangered Species Acts and potential project impacts to those species. The survey shall be conducted in accordance with the most current standard protocol of United States Fish and Wildlife Service and California Department of Fish and Wildlife. The purpose of focused/protocol surveys is to confirm the presence or absence of any species listed as threatened or endangered under the federal Endangered Species Act, threatened or endangered under the California Endangered Species Act, rare or endangered in the California Native Plant Protection Act, or designated as fully-protected in the California Fish and Game Code (collectively, "Protected Species"), and to confirm the presence or absence of any other species considered "sensitive" under California Environmental Quality Act ("Sensitive Species"), and to identify and implement feasible avoidance and minimization measures for such species. The surveys shall be conducted in accordance with all currently-applicable presence and absence survey and/or species protocols established by the United States Fish and Wildlife Service and the California Department of Fish and Wildlife ("Species Protocols"). In the absence of any approved protocols, the survey shall extend for a minimum of 250 feet from all areas where any ground disturbance activities would occur, provided that permission to access has been obtained. As an alternative to individual pre-disturbance surveys for each application, and after consultation with and concurrence by the California Department of Fish and Wildlife and the United States Fish and Wildlife Service, multiple parcels or areas of oil and gas production lands (including lands which may have multiple surface or mineral ownership) may be consolidated for the purpose of more efficiently managing	Less than significant	All Tiers

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

<table>
<tr><th>Impact</th><th>Level of Significance before Mitigation</th><th>Mitigation Measure(s)</th><th>Level of Significance after Mitigation</th><th>Applicable Tier</th></tr>
<tr><td></td><td></td><td>pre-disturbance surveys and determinations regarding the absence of protected species in areas of proposed new ground disturbance activities. A biological monitor shall be present during ground-disturbing activities in project locations that have special-status species habitat or are adjacent to potential special-status species habitat. Within 30 days before any ground disturbing activities in special-status species habitat, a qualified biologist shall conduct a pre-disturbance survey to record existing conditions of the site, determine if conditions have changed since the reconnaissance or focused/protocol surveys were conducted, and to determine where sensitive species avoidance buffers will be established.

MM 4.4-2 No incidental take of any species listed as threatened or endangered under the federal Endangered Species Act, threatened or endangered under the California Endangered Species Act, rare or endangered in the California Native Plant Protection Act, or designated as fully-protected in the California Fish and Game Code (Protected Species) may occur unless the incidental take is authorized by applicable state and federal wildlife agencies in the form of a permit or other written authorization, an approved state or federal conservation plan, or in accordance with an approved regional plan such as the Draft Valley Floor Habitat Conservation Plan and/or Natural Community Conservation Plan.

MM 4.4-3 Protective buffers shall be used, where effective and feasible in the opinion and guidance of the qualified biologist, to avoid any unauthorized incidental take of Protected Species, and to minimize any incidental take of Sensitive Species, by separating the planned disturbance area from any locations where biological reconnaissance surveys, previously conducted focused/protocol surveys, or pre-disturbance surveys have detected the presence of Protected Species or Sensitive Species. Protective buffers shall be delineated using brightly colored stakes and/or flagging or similar materials and remain until construction activities are complete, at which time of completion the buffers must be removed. If special-status plant or animal species are found adjacent to the project during biological surveys, protective buffers shall be established around active dens and/or burrows of special-status animal species, or populations of special-status plant species to avoid unauthorized take of protected species as listed in the table below. The protective buffer distance shall be increased if required to avoid unauthorized incidental take of any Protected Species as determined by a qualified biologist. Protective buffer distances and other avoidance measures that may be implemented to avoid impacts to Protected Species or Sensitive Species must be consistent with the United States Fish and Wildlife Service and/or the California Department of Fish and Wildlife, and shall be implemented and overseen by a qualified biologist.

<u>Table: Disturbance Buffers for Sensitive Resources</u>
<table><tr><td>Sensitive Resource</td><td>Buffer Zone from Disturbance (feet)</td></tr><tr><td></td><td></td></tr><tr><td>Potential San Joaquin kit fox den</td><td>50</td></tr><tr><td>Known San Joaquin kit fox den</td><td>100</td></tr><tr><td>Natal San Joaquin kit fox den</td><td>Contact California Department of Fish & Wildlife, United States Fish & Wildlife Service</td></tr></table></td><td></td><td></td></tr>
</table>

Atypical San Joaquin kit fox den	50
Rodent burrows	50
Listed bird species active nests	0.5 mile
Burrowing owl burrow (breeding and non-breeding season)	Pursuant to California Department of Fish & Wildlife guidelines (see Table 4.4-85)
San Joaquin coachwhip, silvery legless lizard, coast horned lizard	30
American badger: Non-maternity dens Maternity dens	 50 200
Special-status plants	50

MM 4.4-4 Occupied burrowing owl burrows shall not be disturbed during the species nesting season (February 1 through August 31). The following distances shall be maintained between all disturbance areas and burrowing owl nesting sites (Table 4.4-84).

Table 4.4-85: Setback Distances for Burrowing Owl Nesting Sites by Level of Proposed Project Impacts

Location		
Nesting sites	Nesting sites	Nesting sites
Time of Year		
April 1–Aug 15	Aug 16–Oct 15	Oct 16–Mar 31
Project Impact Level		
Low		
656 feet (200 meters)	656 feet (200 meters)	164 feet (50 meters)
Medium		
1,640 feet (500 meters)	656 feet (200 meters)	328 feet (100 meters)
High		

1,640 feet (500 meters)	1,640 feet (500 meters)	1,640 feet (500 meters)

Burrowing owls present in proposed disturbance areas or within 500 feet or as specified under an approved Habitat Conservation Plan (as identified during pre-disturbance surveys) outside of the breeding season (between September 1 and January 31) may be moved away from the disturbance area using passive relocation techniques approved by the California Department of Fish and Wildlife. Passive relocation techniques in the California Department of Fish and Wildlife *Staff Report on Burrowing Owl Mitigation Guidelines* (California Department of Fish and Game 2012) include installing one-way doors in burrow entrances for 48 hours, to ensure the owl(s) have left the burrow, daily monitoring during the passive relocation period, and collapsing existing burrows to prevent reoccupation. A minimum of one or more weeks will be required to relocate the owl(s) and allow for acclimatization to alternate off-site burrows. Prior to burrow exclusion or eviction, a burrowing owl management plan shall be prepared and approved by the California Department of Fish and Wildlife. Destruction of burrows shall occur only pursuant to a management plan for the species approved by the California Department of Fish and Wildlife; burrow excavation shall be conducted by hand whenever possible.

As an alternative to passive relocation, occupied burrows identified off-site within 500 feet of construction activities may be buffered with hay bales, fencing (e.g. sheltering in place), or as directed by the qualified biologist and the California Department of Fish and Wildlife, to avoid disturbance of burrows.

MM 4.4-5 The pre-disturbance surveys shall determine whether active bat maternity roosts are located in or within 250 feet of any disturbance area. All active bat maternity roosts shall be avoided during breeding periods, including postponing disturbance activities if required, and to the maximum extent feasible at other times. If an active bat maternity roost location cannot feasibly be avoided by disturbance, the United States Fish and Wildlife Service and California Department of Fish and Wildlife must be contacted to identify appropriate impact minimization measures prior to initiating any disturbance that would affect the roost.

MM 4.4-6 Any potential San Joaquin kit fox dens (as defined in United States Fish and Wildlife Service 2011) detected during reconnaissance or focused/protocol surveys shall be reevaluated for species activity no more than 30 days prior to the commencement of ground disturbance. Potential kit fox dens shall be marked and a 50-foot avoidance buffer shall be delineated using brightly colored stakes and flagging or similar materials to prevent inadvertent damage to the potential den. If a potential den cannot feasibly be avoided, the den may be hand excavated in accordance with the United States Fish and Wildlife Service *Standardized Recommendations for Protection of the Endangered San Joaquin Kit Fox Prior to or During Ground Disturbance* (United States Fish and Wildlife Service 2011). If species activity is detected, the location shall be identified as a "known" kit fox den in accordance with the U.S. Fish and Wildlife Service species guidelines (United States Fish and Wildlife Service 2011). A minimum 100-foot buffer from any disturbance area shall be maintained for known dens and a minimum 500-foot buffer from any disturbance area shall be maintained for natal dens. No excavation of a known or natal den shall occur without prior authorization from the United States Fish and Wildlife Service and the California Department of Fish and Wildlife. For activities occurring on land covered under an approved federal and/or State incidental take authorization, the requirements set forth in those documents shall be implemented. Other standard measures to protect San Joaquin kit fox, including capping pipes, covering trenches, adding exit ramps to excavated areas, shall be implemented in accordance with MM 4.4-15.

MM 4.4-7 Occupied American badger dens detected during pre-disturbance surveys shall be flagged and ground-disturbing activities avoided within 50 feet of the den. Maternity dens shall be avoided and a minimum 200-foot buffer from disturbance shall be maintained during pup-rearing season (February 15 through July 1). Maternity dens must be avoided to the maximum extent feasible. If a maternity den cannot feasibly be avoided, the California Department of Fish and Wildlife must be contacted to identify appropriate impact minimization measures prior to initiating any disturbance that would affect the den, including potential passive relocation by excavation before or after the rearing season.

MM 4.4-8 Pre-disturbance surveys for all sites located above 2,000 feet in elevation, or within 200 feet down gradient from the 2,000-foot elevation contour line, shall specifically survey for any golden eagle nests located within 2 miles of the site. If golden eagle nests are detected by the surveys, the qualified biologist shall conduct a nest-specific viewshed analysis. No disturbance may occur within 0.25 mile, or within 0.5 mile of the viewshed of an active golden eagle nest unless otherwise authorized by State and federal wildlife agencies. The United States

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		Fish and Wildlife Service and California Department of Fish and Wildlife must be notified prior to the commencement of any disturbance activities within 1 mile of an active golden eagle nest to avoid golden eagle take. **MM 4.4-9** All sites located above 2,000 feet in elevation, or within 200 feet down gradient from the 2,000-foot elevation contour line, shall implement the following measures to avoid and minimize potential adverse impacts to the California condor: a. The site shall, at all times, be maintained to avoid any trash, debris, food sources and microtrash, such as bottle caps, that could be ingested by or attract California condor. Trash shall be disposed in animal-proof containers as required in BIO 4.4-19. b. The Worker Environmental Awareness Program described in BIO MM 4.4-18 shall include information about microtrash and potential effects to California condor, and shall prohibit the disposal of trash (and microtrash) on the site of oil and gas activities. c. If a condor is observed in a proposed construction site, all disturbance activities must immediately cease within 500 feet of the condor until the animal has moved from the site. If condor occurrence persists, the United States Fish and Wildlife Service and the California Department of Fish and Wildlife must be contacted to identify appropriate avoidance measures prior to initiating or resuming any disturbance activity. d. All condor observations shall be reported within 24 hours to the United States Fish and Wildlife Service and the California Department of Fish and Wildlife. e. All tanks, liquid storage facilities, and any open area containing water or other liquid materials, including drilling sumps, must be covered or otherwise shielded in a manner that prevents condor intrusion and potential entrapment. f. No overhead transmission lines may be used at the site without the prior approval of the United States Fish and Wildlife Service and the California Department of Fish and Wildlife. **MM 4.4-10** Pre-disturbance surveys for active bird nests must be conducted no more than 10 days prior to the commencement of disturbance. Surveys shall follow United States Fish and Wildlife and California Department of Fish and Wildlife guidance and/or protocols, as applicable. If no active nests or nesting birds are identified, then Project construction activities may proceed and no further mitigation measures for nesting birds are required. If active nest(s) are identified, the active nest(s) should be continuously surveyed for the first 24 hours after detection, to establish a behavioral baseline prior to any construction-related activities. Once construction commences, all nests shall be continuously monitored to detect any behavioral changes as a result of the Project (i.e., nest avoidance or abandonment). If behavioral changes are observed, the work causing that change should cease and the California Department of Fish and Wildlife and the United States Fish and Wildlife should be consulted for additional avoidance and minimization measures. If continuous monitoring of identified nests by a qualified wildlife biologist is not feasible, a minimum no-disturbance buffer of 250 feet will be established around active nests and a 500-foot no-disturbance buffer around the nests of raptors until the breeding season has ended, or until a qualified biologist has determined that the birds have fledged and are no longer reliant upon the nest or parental care for survival, and any adult birds are no longer occupying the nest. Variance from these no-disturbance buffers may be implemented a qualified biologist concludes that work within the buffer area would not cause nest avoidance or abandonment (e.g., when the disturbance area would be concealed from a nest site by topography). The California Department of Fish and Wildlife and the United States Fish and Wildlife must be notified in advance of implementing of a variance in the no-disturbance buffer. **MM 4.4-11** The following measures will be implemented to avoid take of blunt-nosed leopard lizard and to ensure protection of these animals during Project activities: a. Project activities will avoid all potential burrows that may be occupied by blunt-nosed leopard lizards. Suitable burrows within and adjacent to potential habitat for the species should be avoided by a minimum distance of 50-feet in all areas where ground-disturbing Project activities will occur.		

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		b. No more than one year prior to ground disturbing activities, focused surveys following current California Department of Fish and Wildlife and United States Fish and Wildlife protocols for detection of this species or other methods approved by both agencies shall be conducted in all potential blunt-nosed leopard lizard habitat within the work site and a 250-foot buffer area. If no individual blunt-nosed leopard lizards are observed during focused surveys, and surveys are current (e.g., completed in the same calendar year), then Project activities may proceed. c. If blunt-nosed leopard lizards are detected during focused surveys, a blunt-nosed leopard lizard avoidance plan shall be prepared for the Project that will result in avoidance of incidental take of this species unless take is separately authorized under a Natural Communities Conservation Plan and appropriate federal authorization is obtained. At a minimum, the blunt-nosed leopard lizard avoidance plan shall be provided to the California Department of Fish and Wildlife and the County, and shall contain the following elements: 1. A Worker Environmental Awareness Program shall be implemented for all construction personnel before construction begins (see MM 4.4-18). 2. During periods that are optimal for blunt-nosed leopard lizard activity (early spring through late fall), a qualified biologist will be present during all ground disturbing activities. The qualified biologist will check the Project site(s) and access route(s) daily during the blunt-nosed leopard lizard active season to determine presence or absence of lizards in or near the work areas. Monitoring by a qualified biologist is not required during periods of inactivity (the winter season). 3. All open trenches or excavations shall be covered at the end of each workday or protected with the use of exclusion fencing to prevent wildlife entrapment. If an excavation is too large to cover, escape ramps shall be installed at an incline ratio of no greater than 2:1. All trenches and pipes shall be inspected for the presence of wildlife each day prior to the commencement of work. If blunt-nosed leopard lizards are observed at the work site during construction, construction shall cease within a 250-foot radius and the United States Fish and Wildlife Service and the California Department of Fish and Wildlife shall be consulted to determine what additional measures would be necessary to prevent take of this species. 4. Offsite locations where blunt-nosed leopard lizards have been observed or are likely to occur shall be clearly marked to prevent workers from driving off the road and to prevent inadvertent destruction of burrows. Barriers, such as exclusionary fencing may be installed. All construction equipment and construction personnel vehicles will be checked prior to moving to ensure no blunt-nosed leopard lizard are under equipment/vehicles. 5. A speed limit of 10 miles per hour shall be posted and observed within 0.25 miles of any reported blunt-nosed leopard lizard observation. 6. Construction activities shall avoid burrows that may be used by blunt-nosed leopard lizards. Any location of proposed construction activity with potential to collapse or block burrows (i.e., stockpile storage, parking areas, staging areas, trenches) will be identified prior to construction in the blunt-nosed leopard lizard avoidance plan and approved by the qualified biologist. The qualified biologist may allow certain activities in burrow areas if the combination of soil hardness and activity impact is not expected to collapse burrows and no blunt-nosed leopard lizards have been found during pre-Project surveys in the impact area. 7. All individual blunt-nosed leopard lizards observed above-ground will be avoided. Any individual blunt-nosed leopard lizard that may enter the Project site(s) would be allowed to leave unobstructed, and on its own accord. If a blunt-nosed leopard lizard is detected during biological monitoring or observed at any other point, the California		

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		Department of Fish and Wildlife and the United States Fish and Wildlife Service shall be notified to determine what additional measures would be necessary to prevent take of the species. **MM 4.4-12** The Applicant shall comply with the following: a. Plant surveys for Protected Species and Sensitive Species must be completed by a qualified biologist during the appropriate blooming periods for species identification and detection. Plant surveys shall be conducted in accordance with all applicable protocols established by the United States Fish and Wildlife Service and the California Department of Fish and Wildlife for particular plant species ("Plant Survey Protocol"), and shall extend 50 feet from areas where any new disturbance would occur unless a greater survey distance is specified in the Plant Survey Protocol. All detected plant populations of Protected Species and Sensitive Species shall be identified in the field during the surveys with temporary flags or other appropriate materials to avoid and minimize impacts to the plant populations from any disturbance activities. b. No incidental take or relocation of any plant listed under the federal Endangered Species Act, the California Endangered Species Act, or the California Native Plant Protection Act may occur unless the incidental take is authorized by the United States Fish and Wildlife Service and/or the California Department of Fish and Wildlife in a permit or other authorization, or in an approved Habitat Conservation Plan or Natural Communities Conservation Plan. If focused plan surveys detect the presence of any listed plant, the plant populations shall be buffered from disturbance activities by implementing applicable impact avoidance protocols established by the United States Fish and Wildlife Service and/or the California Department of Fish and Wildlife unless incidental take authority is obtained. Projects covered under incidental take authority shall conduct activities in accordance with the take authorization. The California Department of Fish and Wildlife may be contacted to determine the appropriate buffer required to prevent incidental take of a listed plant if avoidance protocols have not been established for the species. The qualified biologist shall confirm that all applicable listed plant buffers have been implemented prior to the commencement of any disturbance activity. c. If any non-listed sensitive plant species are identified that may be impacted by new ground disturbing activities, populations must be avoided by a 50-foot buffer. **MM 4.4-14** A Worker Environmental Awareness Program shall be developed and implemented for all personnel that could access the site prior to commencing any disturbance activities. The program shall consist of an on-site or center presentation that will describe the locations and types of sensitive plant, wildlife, and sensitive natural communities (collectively, "Biological Resources") on and near the site, an overview of the laws and regulations governing the protection of Biological Resources, the reasons for protecting the Biological Resources, the specific protection and avoidance measures that are applicable to the site, and the identity of designated points of contact should questions or issues arise, including the qualified biologist. The program shall provide training to recognize, avoid and report to applicable qualified biologists any Biological Resources on the site. a. The Worker Environmental Awareness Program shall emphasize the need to avoid contact with onsite wildlife, and avoid entry into areas where Biological Resources have been identified based on pre-disturbance field surveys and to implement the buffer avoidance or other protection measures established by the United States Fish and Wildlife Service shall be identified California Department of Fish and Wildlife or required by the Biological Resource mitigation measures. The training shall emphasize the importance of not feeding or domesticating wildlife and the need to avoid any trash, microtrash, or potential food disposal onsite except in animal-proof containers emptied daily to avoid attracting, or causing adverse impacts to special status wildlife. b. All onsite personnel must sign a statement verifying that they have completed the Worker Environmental Awareness Program, and that they understand and agree to implement the biological requirements for the worksite. If signed employee statements are not available, documentation may be provided by Worker Environmental Awareness Program training records, which shall be kept by the Applicant for a minimum of 5 years. Each Applicant shall maintain a list of all persons who have completed the training program, and shall provide the list to the County or to state and federal wildlife agency representatives upon request. **MM 4.4-15** The following additional measures shall be implemented to avoid and minimize potential significant adverse impacts to Protected and Sensitive Species:		

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		a. All vehicles shall observe a 20-mile-per-hour speed limit in all areas of disturbance and on unpaved roads unless otherwise posted. Off-road traffic outside of designated access routes is prohibited. Speed limit signs shall be posted in visible locations at the point of site entry and at regular intervals on all unpaved access roads. b. All disturbance activities, except emergency situations or drilling that may require continuous operations, shall only occur during daylight hours. Night time disturbance activity for drilling purposes shall use directed lighting, shielding methods, or reduced lumen intensity to avoid unnecessary visual disturbance to wildlife and to comply with applicable lighting mitigation measures. c. All food-related trash items and all forms of microtrash, such as wrappers, cans, bottles, bottle tops, and food scraps shall be disposed of in closed, animal proof containers and removed daily from the site. d. Excavations, spoils piles, access roadways, and parking and staging areas shall subject to dust control as set forth in the dust control mitigation measures. e. The use of herbicides for vegetation control shall be restricted to those approved by the United States Fish and Wildlife Service and the California Department of Fish and Wildlife. No rodenticides shall be used on any site unless approved by the United States Fish and Wildlife Service, and the California Department of Fish and Wildlife, and shall observe label and other restrictions mandated by the United States Environmental Protection Agency, California Department of Food and Agriculture, and state and federal laws and regulations. For split estates, no herbicides for vegetation control may occur in Tier 2 areas without surface owner approval. f. No plants or wildlife shall be collected, taken, or removed from the site or any adjacent locations except as necessary for Project-related vegetation removal or wildlife relocation by a qualified biologist and subject to all applicable permits and authorizations. g. All open trenches or excavations shall be covered at the end of each workday to prevent wildlife entrapment. If an excavation is too large to cover, escape ramps shall be installed at an incline ratio of no greater than 2:1. All trenches and pipes shall be inspected for the presence of wildlife each day prior to the commencement of work. h. To enable San Joaquin kit foxes and other wildlife to pass through the Project site, any perimeter fencing shall include a 4- to 8-inch opening between the fence mesh and the ground or the fence shall be raised 4 inches above the ground except blunt-nosed leopard lizard exclusion fencing. The bottom of the fence fabric shall be knuckled (wrapped back to form a smooth edge) to protect wildlife. i. All vertical tubes used in Project construction and chain link fencing poles, shall be temporarily or permanently capped to avoid the entrapment and death of special-status wildlife and birds. All pipes 1.5 inches or greater in diameter stored overnight on a project location must have end caps or other physical barriers that prevent wildlife from entering the pipe. j. All dead or injured special status wildlife shall be left in place and reported to the United States Fish and Wildlife Service and the California Department of Fish and Wildlife within 48 hours of discovery for rescue or salvage. Discovery of state or federal listed species that are injured or dead shall also be managed consistent with regulatory requirements, including being reported immediately via telephone and within 24 hours in writing, and with a copy to Kern County Planning and Community Development. k. All drilling installations and operations will comply at all times with the applicable federal, State, county, and local law ordinances and regulations. l. All activity shall use previously disturbed areas to the maximum extent feasible to minimize the amount of new disturbance. m. All concrete and asphalt debris should be removed from the site for recycling or proper disposal. n. No vehicles or construction equipment shall be parked within a wetland or waterbody/dry wash.		

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		o. Tracked vehicles and other construction equipment must be washed or maintained to be weed-free prior to entering and working within areas of new disturbance. p. All washing of trucks, paint, equipment, or similar activities should occur in areas where runoff is fully contained for collection and offsite disposal. Wash water may not be discharged from the site and shall be located at least 100 feet from any water body, or sensitive Biological Resources. q. Locate all extra work areas (such as staging areas and additional spoil storage areas) at least 50 feet away from wetland boundaries or waterbody, except where the adjacent upland consists of cultivated or rotated cropland or other disturbed land. r. All areas that must be avoided as result of the pre-disturbance surveys, and areas where new disturbance will occur, shall be clearly delineated by fencing or staking and flagging and/or rope or cord. s. No firearms shall be allowed on any site. t. No pets shall be allowed on any site. u. No smoking may occur except in designated areas. v. If ground disturbance is intended to be temporary and does not occur on cultivated and crop lands, perform topsoil segregation during construction activities to preserve the seed bank for restoration efforts. Store the segregated topsoil separate from the subsoil and restore segregated topsoil to its original location. **MM 4.4-16** Ground disturbance shall be mitigated at a 1.0 to 1.0 ratio (one-acre of new disturbance shall require one-acre of mitigation) except in Tier 1 areas that contain existing disturbance of 70% or greater which shall be mitigated at a 1.0 to 0.5 ratio (one-acre of new disturbance shall require one-half acre of mitigation), for the land included in the Site Plan. This compensatory mitigation requirement does not apply to construction on ground for which compensatory mitigation has already been provided, or on ground that has been previously disturbed (e.g., cleared of vegetation for other oil and gas extraction uses, existing unpaved roads, and existing unvegetated well pads). Ground disturbance activities that are authorized by permits or other written authorizations approved by the United States Fish and Wildlife Service and the California Department of Fish and Wildlife, which include avoidance and compensatory mitigation acreage requirements, may be used to satisfy this County compensatory mitigation ratio. Compensatory mitigation shall be required for the actual acreage of ground disturbance documented during the site plan review and completion process. New disturbance mitigation may be satisfied by one or a combination of the following measures: a. The recordation of a conservation easement or similar permanent, long-term conservation management agreement in a form acceptable to the County for land within the Project Area on land that has mitigation value. The easement lands may be owned by an Applicant or a third party under contract with an Applicant. Larger land areas may be placed under a conservation easement or similar agreement, and an Applicant may "draw down" the conserved land as needed to satisfy the acreage mitigation requirements for multiple site plan review conformity permits or other authorizations from the County for oil and gas activities. b. Acquisition of land preservation credits from a mitigation bank located within the Project Area which is owned by the County, on other lands approved by the County, or on lands approved for mitigation or conservation purposes by the United States Fish and Wildlife Service or the California Department of Fish and Wildlife. c. Removal of legacy oil and gas equipment, inclusive of compliance with applicable legal requirements (e.g., well plugging and abandonment requirements under state or federal regulations), restoration of the surface grade to be consistent with surrounding lands, complete a reseeding effort using native species, and notification of the site owner (if not the Applicant) of the completion of the removal and grading restoration work.		

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		d. Enhancement or restoration of existing habitat on lands already subject to a conservation easement or similar agreement, or which become subject to a conservation easement or similar agreement subsequent to the certification of this Environmental Impact Report, provided that such activities are covered in a permit or authorization, conservation plan, Habitat Conservation Plan, or Natural Community Conservation Plan, approved by the United States Fish and Wildlife Service or the California Department of Fish and Wildlife. e. Payment of a biological resources mitigation fee for the acquisition and management of mitigation lands, legacy equipment removal, and/or land enhancement already subject to conservation easements or a similar agreements under the terms of any biological resource mitigation program that is adopted by Kern County and approved by the United States Fish and Wildlife Service or the California Department of Fish and Wildlife. The County shall coordinate with the United States Fish and Wildlife Service or the California Department of Fish and Wildlife to identify priority conservation areas and potential conservation partners and funding sources to increase the efficiency and effectiveness of mitigation fee expenditures.		
Impact 4.4-2 Have a Substantial Adverse Effect on Any Riparian Habitat or Other Sensitive Natural Community Identified in Local or Regional Plans, Policies, Regulations, or by the California Department of Fish and Wildlife or the United States Fish and Wildlife Service	Potentially significant	Implement MM 4.4-1 through 4.4.18, described above, and dust control, spill and hazardous material avoidance and containment, and surface and subsurface water quality and hydrology mitigation measures. **MM 4.4-17** Pre-disturbance surveys shall be conducted by a qualified biologist during the appropriate periods for detecting Sensitive Natural Communities that could occur within the Project Area. The surveys shall be completed consistent with applicable protocols approved by the United States Fish and Wildlife Service and/or the California Department of Fish and Game, including the Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities (California Department of Fish and Wildlife 2009). The qualified person shall map and identify all sensitive natural communities, including riparian communities that occur in or within 100 feet of any new disturbance area. The site plan for the proposed activity shall identify waters, wetlands, resources subject to section 1600 of the CFGC, and other riparian habitats that occur in and within 100 feet of the disturbance area. **MM 4.4-18** No land disturbance activity in any Sensitive Natural Community that requires a state or federal permit, including state or federally regulated wetlands and waters, shall occur unless the activity is specifically authorized by the issuance of permits or approvals as required by state and federal law. This provision is not intended to restrict survey activities or restrict permit approvals for such disturbance activities. However, no new wells, tanks, sumps or ponds shall be constructed within 50 feet of federal or state waters or wetlands.	Less than significant	All Tiers
Impact 4.4-3 Have a Substantial Adverse Effect on Federally Protected Wetlands as Defined by Section 404 of the Clean Water Act (Including, but Not Limited to, Marsh, Vernal Pool, Coastal, etc.) through Direct Removal, Filling, Hydrological Interruption, or Other Means	Potentially significant	Implementation of the Biological Resources mitigation measures would ensure that oil and gas activities would not disturb state or federally regulated wetlands and waters unless the activity is specifically authorized by the issuance of permits or approvals as required by state and federal laws and that activities in the vicinity of wetlands and water bodies would not adversely disturb them. Other mitigation measures identified in this Environmental Impact Report would further reduce potential state or federally jurisdictional wetland and waters, including dust control, spill and hazardous material avoidance and containment, surface and subsurface water quality and hydrology, mitigation measures.	Less than significant	All Tiers
Impact 4.4-4 Interfere Substantially with the Movement of any Native Resident or Migratory Fish or Wildlife Species, or with Established Native Resident or	Potentially significant	Implementation of the Biological Resources mitigation measures would reduce wildlife movement impacts. Other mitigation measures identified in this Environmental Impact Report to further reduce wildlife movement impacts, include dust control, nighttime lighting, noise controls, spill and hazardous material avoidance and containment,, and surface and subsurface water quality and hydrology (including but not limited to Kern River and Poso Creek channels), measures.	Less than significant	All Tiers

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
Migratory Wildlife Corridors, or Impede the Use of Native Wildlife Nursery Sites				
Impact 4.4-5 Conflict with Any Local Policies or Ordinances Protecting Biological Resources, Such as a Tree Preservation Policy or Ordinance	Potentially significant	**MM 4.4-19** In the event that new disturbance would occur at a site within an oak woodland area as defined in Section 1.10.10 of the Kern County General Plan Land Use, Open Space and Conservation Element (10% or greater oak tree cover), the Applicant shall comply with the minimum 30% canopy retention standard in Section 1.10.10 KK (a). Impacts to oak trees in other locations, and in locations that meet the criteria for an oak woodland area, shall be avoided to the maximum extent practicable, including modification of the disturbance area, if feasible, to avoid existing oak trees within a site.	Less than significant	All Tiers
Impact 4.4-6 Conflict with the Provisions of an Adopted Habitat Conservation Plan, Natural Community Conservation Plan, or Other Approved Local, Regional, or State Habitat Conservation Plan	Potentially significant	**MM 4.4-20** Applicants shall fund through the Site Conformity Review administrative fee, preparation by Kern County of, an annual report describing the Project's ground disturbance acreage, and the acreage of compensatory mitigation lands, in each sub-area. For Covered Activities within areas included in proposed HCPs, the requirements of MM 4.4-1 – 4.4-19 may be superseded by specific requirements imposed by USFWS as part of approval of a federal incidental take permit (e.g., under Section 10 or Section 7 of the Endangered Species Act), or by CDFW as part of approval of a state incidental take permit (e.g., under the Fish and Game Code), provided that USFWS (in the case of a federal incidental take permit) or CDFW (in the case of a state incidental take permit) concludes in writing that such requirements provide equivalent or greater protection than MM 4.4-1 – 4.4-19 (or any subset thereof).	Less than significant	All Tiers
Impact 4.4-7 Cumulative Impact to Biological Resources	Potentially significant	Implement MM 4.4-1 through MM 4.4-20, as described above.	Significant and unavoidable	All Tiers
Cultural Resources				
Impact 4.5-1 Cause a Substantial Adverse Change in the Significance of a Historical Resource as Defined in Section 15064.5	Potentially significant	**MM 4.5-1** Prior to initiating ground disturbance activities for an activity for which a conformity review is required, the Applicant shall: a. Provide an archival records search completed by a qualified archaeologist. This shall include an examination of the California Historical Resources Information Files at the Southern San Joaquin Valley Information Center, California State University, Bakersfield, and a search of the Native American Heritage Commission Sacred Lands Files, Sacramento. The Applicant may rely on a previously performed records search for subsequent ground disturbing activities. b. If an application location has been previously surveyed and no cultural resources have been recorded on it, no further cultural resources studies shall be required. c. Implement either: 1. If a site plan includes land that has experienced 100% previous ground-surface disturbance, or is within a section with 300 or more existing oil wells or other agricultural, industrial or urban uses, and the records searches indicate that no cultural or Native American resources are known on it, no further cultural resources studies shall be required. All other application locations shall be subject to intensive (100%) pedestrian ground-surface survey (Phase I survey/Class III inventory) by qualified archaeologists. The Applicant may rely on a previously performed ground surface survey for subsequent ground disturbing activities; or 2. If an application location has not been previously surveyed based on the records search information, an intensive (100%) pedestrian ground-surface survey (Phase I survey/Class III inventory) by qualified archaeologists shall be required.	Less than significant	All Tiers

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		d. All prehistoric/Native American archaeological sites, whether identified during the records searches or during the intensive survey, shall be demarcated by a qualified archaeologist, fenced by the Applicant, and preserved in place. e. Historical (Euro-American) archaeological sites that are potentially eligible for listing in the National Register of Historic Places shall be evaluated by a qualified archaeologist and must meet the requirements of the National Historic Preservation Act of 1966 in order to qualify. Qualifying sites, structures and equipment that are identified during the records search or field survey shall be fenced and preserved in open-space, removed and curated, or treated using appropriate data recovery procedures. f. Historical (Euro-American) archaeological site types relating to oil and gas activities that have been determined Not Significant/Unique shall require no archaeological study or treatment. g. All oil and gas industry employees conducting work in the area identified on the Conformity Site Plan shall complete Worker Environmental Awareness Program training including training dedicated to cultural resources protection.		
Impact 4.5-2 Cause a Substantial Adverse Change in the Significance of an Archaeological Resource as Defined in Section 15064.5	Potentially significant	Implement MM 4.5-1, as described above.	Less than significant	All Tiers
Impact 4.5-3 Directly or Indirectly Destroy a Unique Paleontological Resource or Site or Unique Geologic Feature	Potentially significant	**MM 4.5-2** As part of any Worker Environmental Awareness Program training, all construction personnel shall be trained regarding the recognition of possible buried paleontological resources and protection of paleontological resources during construction, prior to the initiation of construction or ground-disturbing activities. Training shall inform construction personnel of the procedures to be followed upon the discovery of paleontological materials. All personnel shall be instructed that unauthorized collection or disturbance of fossils is unlawful. **MM 4.5-3** All permits for new wells that use Enhanced Oil Recovery or Well Stimulation methods shall pay a mitigation fee of $50 per well shall be paid to the Buena Vista Museum to fund the continued education and curation of paleontological resources and provide educational support regarding the paleontological history of the region.	Less than significant	All Tiers
Impact 4.5-4 Disturb any Human Remains, Including Those Interred Outside of Formal Cemeteries	Potentially significant	**MM 4.5-4** In the event archaeological materials are encountered during the course of ground disturbance or construction, the Project operator/contractor shall cease any ground disturbing activities within 50 feet of the find. The qualified archaeologist shall evaluate the significance of the resources and recommend appropriate treatment measures. Per California Environmental Quality Act Guidelines Section 15126.4(b)(3), Project redesign and preservation in place shall be the preferred means to avoid impacts to significant historical resources. Consistent with California Environmental Quality Act Guidelines Section 15126.4(b)(3)(C), if it is demonstrated that resources cannot be avoided, the qualified archaeologist shall develop additional treatment measures in consultation with the County, which may include data recovery or other appropriate measures. The Planning and Community Development Department shall consult with appropriate Native American representatives in determining appropriate treatment for unearthed cultural resources if the resources are prehistoric or Native American in nature. If after consultation it is deemed appropriate, archaeological materials recovered during any investigation shall be curated at an accredited curation facility. The qualified archaeologist shall prepare a report documenting evaluation and/or additional treatment of the resource. A copy of the report shall be provided to the Kern County Planning and Community Development Department and to the Southern San Joaquin Valley Information Center. In the event archaeological materials are encountered, in Tier 2 the surface owner shall be notified immediately. **MM 4.5-5** If human remains are uncovered during Project construction, the Applicant shall immediately halt all work, contact the Kern County Coroner to evaluate the remains, and follow the procedures and protocols set forth in Section 15064.4 (e)(1) of the California Environmental Quality	Less than significant	All Tiers

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		Act Guidelines. The Kern County Planning and Community Development Department shall be notified concurrently. If the County Coroner determines that the remains are Native American, the Project proponent shall contact the Native American Heritage Commission, in accordance with Health and Safety Code Section 7050.5, subdivision (c), and Public Resources Code 5097.98 (as amended by Assembly Bill 2641). The Native American Heritage Commission shall designate a Most Likely Descendant for the remains per Public Resources Code 5097.98. Per Public Resources Code 5097.98, the applicant, in coordination with the landowner, shall ensure that the immediate vicinity, according to generally accepted cultural or archaeological standards or practices, where the Native American human remains are located, is not damaged or disturbed by further development activity until the discussion and conference with the Most Likely Descendant has occurred, if applicable, taking into account the possibility of multiple human remains. If the remains are determined to be neither of forensic value to the Coroner, nor of Native American origin, provisions of the California Health and Safety Code (7100 et. seq.) directing identification of the next-of-kin will apply. In the event human remains are uncovered, in Tier 2 the surface owner shall be notified immediately.		
Impact 4.5-5 Cumulative Impacts to Historical, Archaeological, or Paleontological Resources and Human Remains	Potentially significant	Implement MM 4.5-1 through MM 4.5-5, as described above.	Significant and unavoidable	
Geology and Soils				
Impact 4.6-1 Expose People or Structures to Substantial Adverse Effects, Including the Risk of Loss, Injury, or Death Involving the Rupture of a Known Earthquake Fault	Potentially significant	**MM 4.6-1** Prior to beginning a ground disturbance activity, the Applicant shall comply with the following regulations (as applicable) and confirm compliance in its Site Plan Conformity Review application documentation: a. Alquist-Priolo Earthquake Fault Zoning Act. b. California Building Code. c. Division of Oil Gas and Geothermal Resources regulations, as identified in the California Code of Regulations, Title 14, Division 2, Chapter 4, including regulations implementing Senate Bill 4 as applicable. If hydraulic fracturing is conducted for any well associated with the Site Plan Conformity Review, the Applicant shall comply with requirements to monitor the California Integrated Seismic Network for indication of an earthquake of magnitude 2.7 or greater for the period of 10 days following the end of hydraulic fracturing. The earthquake search radius shall be consistent with Division of Oil Gas and Geothermal Resources Senate Bill 4 regulations. The data will be submitted to Division of Oil Gas and Geothermal Resources for an evaluation of the risks and actions consistent with the Division of Oil Gas and Geothermal Resources Senate Bill 4 regulations. In approving a well stimulation treatment permit that would authorize, within an urban area (i.e., an area with a population over 50,000, as defined by the U.S. Census Bureau), the emplacement of well stimulation fluids into an oil or gas formation that has not been previously been subject to well stimulation activity, and/or into an oil or gas formation for which Division of Oil Gas and Geothermal Resources does not yet possess adequate information about formation fracture geometries, Division of Oil Gas and Geothermal Resources shall impose a permit condition requiring that the applicant conduct ground monitoring to characterize as-built fracture geometries prior to, during, and post-hydraulic fracturing. Monitoring shall also be conducted during fracturing treatments by use of applicable microseismic fracture mapping, tilt measurements, tracers, or proppant tagging. Copies of ground monitoring records shall be provided to the County and Division of Oil Gas and Geothermal Resources for review and approval within 30 days of well stimulation treatment.	Less than significant	All Tiers

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		d. Additionally, the Applicant shall: 1. Avoid placement of structures intended for human occupancy on or within 50 feet of any active faults designated and mapped pursuant to the Alquist-Priolo Earthquake Fault Zoning Act where the fault breaks the surface. 2. Have a professional geologist prepare a fault rupture hazard evaluation according to guidelines in California Geological Survey Special Publication 42, 2007 for new developments with structures that are intended for human occupancy. 3. All Class II injection wells shall be authorized, and shall comply with all applicable legal requirements, Underground Injection Control Program Approval permit conditions, and be operated according to the California Code of Regulations Title 14 requirements, as described in the mitigation measures for Hydrology and Water Quality. 4. Ensure that active fault trace placement restrictions are in place for all permanent tanks and storage reservoirs used to store, treat, or transport hazardous materials or materials that are considered pollutants to surface water and groundwater, located in an Earthquake Fault Zone. Ensure that all newly installed pipelines subject to 49 Code of Federal Regulations (CFR) Parts 192 and 195, are engineered and constructed in compliance with the requirements of the pipeline safety regulations,as set forth by the Pipeline Hazardous Materials Safety Administration (PHMSA). All other newly installed pipelines that transport gas or hazardous liquids are to be constructed, tested operated and maintained in accordance with good oilfield practice and applicable standards set forth and approved by the State Oil and Gas Supervisor. Ensure that all new pipelines designated for or water used for fire suppression are engineered and constructed in compliance with the requirements of California Building Code Chapter 9, Fire Protection Systems, and the California Fire Code to address potential fault rupture displacements. **MM 4.6-2** All structures designed for human occupancy shall be designed to withstand substantial ground shaking in accordance with applicable California Building Code seismic design standards and Kern County Building Code.		
Impact 4.6-2 Expose People or Structures to Substantial Adverse Effects, Including the Risk of Loss, Injury, or Death Involving Strong Seismic Ground Shaking	Potentially significant	Implement MM 4.6-1 and MM 4.6-2, as described above.	Less than significant	All Tiers
Impact 4.6-3 Expose People or Structures to Substantial Adverse Effects, Including the Risk of Loss, Injury, or Death Involving Seismic-Related Ground Failure, Including Liquefaction	Potentially significant	Implement MM 4.6-1 and MM 4.6-2, as described above.	Less than significant	All Tiers
Impact 4.6-4 Expose People or Structures to Substantial Adverse Effects, Including the Risk of Loss, Injury, or Death Involving Landslides	Potentially significant	**MM 4.6-3** Operators shall avoid siting wells or accessory equipment and facilities on slopes greater than 30% unless the Applicant determines that mineral recovery is infeasible from a different location, and site-specific Professional Engineering certification is submitted concluding that the new equipment will not cause landslides.	Less than significant	All Tiers

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
Impact 4.6-5 Result in Substantial Soil Erosion or the Loss of Topsoil	Potentially significant	Implement stormwater mitigation measures, as described in Section 4.9, Hydrology and Water Quality.	Less than significant	All Tiers
Impact 4.6-6 Be Located on a Geological Unit or Soil That is Unstable, or That Would Become Unstable as a Result of the Project, and Potentially Result in On- or Off-site Landslide, Lateral Spreading, Subsidence, Liquefaction, or Collapse	Potentially significant	Implement MM 4.6-3and MM 4.6-4, as described above, and the following: **MM 4.6-4** The Applicant shall confirm compliance with, and shall implement, a Division of Oil Gas and Geothermal Resources approved re-pressuring plan as required by Division 3, Chapter 1, Article 5.5 of the Public Resources Code, commencing with Section 3315. In developed areas where subsidence is confirmed or suspected, subsidence monitoring shall be required using Synthetic Aperture Radar studies and/or other methods as approved by the Division of Oil Gas and Geothermal Resources to quantify and evaluate the potential effect on the area.	Less than significant	All Tiers
Impact 4.6-7 Be Located on Expansive Soil, as Defined in Table 18-1-B of the Uniform Building Code (1994), Creating Substantial Risks to Life or Property	Potentially significant	**MM 4.6-5** The Applicant shall avoid building infrastructure on expansive soils unless the Applicant determines that mineral recovery is infeasible from a different location, and site-specific Professional Engineering certification is submitted concluding that the new equipment will not cause substantial risks to life or property.	Less than significant	All Tiers
Impact 4.6-8 Have Soils Incapable of Adequately Supporting the Use of Septic Tanks or Alternative Wastewater Disposal Systems Where Sewers Are Not Available for the Disposal of Wastewater	Less than significant	Implement MM 4.6-1, as described above.	Less than significant	All Tiers
Impact 4.6-9 Cumulative Impacts to Geologic and Soil Resources	Potentially significant	Implement MM 4.6-1 through MM 4.6-5, as described above.	Less than significant	All Tiers
Green House Gas Emissions				
Impact 4.7-1 Generate Greenhouse Gas Emissions, Either Directly Or Indirectly, that may have a Significant Impact on the Environment	Potentially significant	**MM 4.7-1** An Applicant covered by the Cap-and-Trade Program with permitted stationary sources shall comply with the Cap-and-Trade regulation (especially by surrendering greenhouse gas allowances or offset credits to satisfy their compliance obligation under the Program), and implement Best Performance Standards applicable to greenhouse gas reduction for Components at Light Crude Oil and Natural Gas Production, Natural Gas Processing Facilities, Petroleum Refineries, Gas Liquids Processing Facilities, and Chemical Plants (San Joaquin Valley Air Pollution Control District 2010), Thermally Enhanced Oil Recovery Wells (San Joaquin Valley Air Pollution Control District 2010a), Steam Generators (San Joaquin Valley Air Pollution Control District 2010b), and Front-line Organic Liquid Storage Tanks (San Joaquin Valley Air Pollution Control District 2011).	Less than significant	All Tiers

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		MM 4.7-2 Each Applicant covered by the Cap-and-Trade Program shall comply with applicable Cap and Trade regulations, and other applicable greenhouse gas emission control and reduction regulations as these may be adopted or amended over time, to reduce, avoid, mitigate and/or sequester greenhouse gas emissions from Project-related air emissions. **MM 4.7-3** Each Applicant shall implement methods to recover for reuse or destroy methane existing in associated gas and casinghead gas, as follows: a. Recover all associated gas produced from the reservoir via new wells, regardless of the well type, except for gas produced from wildcat and delineation wells or as a result of start-up, shutdown and maintenance activities (whether planned or unplanned), system failures, and emergencies in accordance with San Joaquin Valley Air Pollution Control District regulations (Rule 4401 and 4409), as this may be amended over time. b. Compliance with the expected California Air Resources Board methane regulation. **MM 4.7-4** Each Applicant shall offset all greenhouse gas emissions not covered by the Cap-and-Trade program or other mandatory greenhouse gas emission reduction measures through Applicant reductions of greenhouse gas emissions as verified by Kern County, through acquisition of offset credits from the California Air Pollution Control Officers Association Exchange Register or other third party greenhouse gas reductions, with consultation as to the validity of methodology for calculating reductions verified by the San Joaquin Valley Air Pollution Control District and accepted by Kern County, or through inclusion in an Emission Reduction Agreement, to offset Project-related greenhouse gas emissions that are not included in the Cap and Trade program to assure that no net increase in greenhouse gas emissions from the Project.		
Impact 4.7-2 Conflict with any Applicable Plan, Policy, or Regulation Adopted for the Purpose of Reducing the Emissions of Greenhouse Gases	Potentially significant	Implement MM 4.7-3, as described above.	Significant and unavoidable	All Tiers
Impact 4.7-3 Cumulative Greenhouse Gas Emissions Impacts	Potentially significant	Implement MM 4.7-4, as described above.	Significant and unavoidable	All Tiers

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
Hazards and Hazardous Materials				

Impact 4.8-1 Create a Significant Hazard to the Public or the Environment through the Routine Transport, Use, or Disposal of Hazardous Materials	Potentially significant	**MM 4.8-1**	The Applicant shall provide a comprehensive Worker Environmental Awareness Program to the County with its first Site Plan Conformity Review permit application in each calendar year. The program shall include all training requirements identified in Applicant Best Management Practices and mitigation measures, and include training for all field personnel (including Applicant employees, agents and contractors). The Worker Environmental Awareness Program shall include protocols and training for responding to and handling of hazardous materials and hazardous waste management, and emergency preparedness, release reporting, and response requirements. In Tier 2, the Worker Environmental Awareness Program shall be provided to the surface owner at the time of the application pathway process so the surface owner may educate employees as well.	Less than significant	All Tiers
		MM 4.8-2	The Applicant shall arrange for transportation, storage and disposal of all hazardous materials in compliance with the Hazardous Materials Transportation Act. Drivers transporting hazardous materials or wastes should follow the measures recommended by the Federal Motor Carrier Safety Administration for avoiding roll-over accidents. To avoid roll-over accidents involving cargo tank trucks: a. Avoid sudden movements that may lead to roll-overs. b. Control your load in turns and on straight roadways. c. Identify high risk areas on roads. d. Remain alert and attentive behind the wheel. e. Control speed and maintain proper “speed cushions.”		
		MM 4.8-3	The Applicant shall implement the following practices: a. Construction activities shall be conducted to allow for easy clean-up of spills. Construction crews shall have sufficient tools, supplies, and absorbent and barrier materials to contain and recover spilled materials. b. Fuels and lubricants shall be stored only at designated staging areas. Fuel and lubricant tanks shall have appropriate secondary spill containment (e.g., curbs). Compliance with laws and regulations is required, including compliance with hazardous materials and hazardous waste storage laws, as applicable. c. Storage of fuel and lubricants in the staging area shall be at least 100 feet away from the edge of water bodies. Refueling and lubrication of equipment shall be restricted to upland areas at least 100 feet away from stream channels and wetlands. d. Any fuel truck shall carry an oil spill response kit and spill response equipment at all times. e. Applicants shall be required to perform all routine equipment maintenance at the well pad or other suitable locations (i.e., maintenance yards), and promptly collect and lawfully dispose of wastes in compliance with existing regulatory requirements. f. Berms and/or dikes (secondary containment) shall be constructed around the permanent above-ground bulk tanks and the foundations shall be installed with a passive leak detection system, so that potential spill materials shall be contained and collected in specified areas isolated from any water bodies. Tanks shall not be placed in areas subject to periodic flooding or washout. Compliance with laws and regulations is required, including compliance with hazardous materials and hazardous waste storage laws as applicable, including for secondary containment, such as Division of Oil, Gas and Geothermal Resources regulation (Title 14, C.C.R. § 1773.1), which requires secondary containment in "an engineered impoundment such as a catch basin, which can include natural topographic features, that is designed to capture fluid released from a production facility." g. A sufficient supply of sorbent and barrier materials shall be maintained on construction sites consistent with the type and level of construction activities. Sorbent and barrier materials shall also be utilized to contain runoff from contaminated areas where appropriate. 1. Shovels and drums shall be stored at each well pad or be readily available. If small quantities of soil become contaminated, hand tools such as shovels or other appropriate tools, shall be used to collect the soil and the material shall be stored in storage drums. Large quantities of contaminated soil may be bio-remediated on-site or at a designated remediation facility, subject to government approval, or collected utilizing heavy equipment, and stored in drums or other suitable containers prior to disposal. Should contamination occur adjacent to staging areas as a result of runoff, shovels and/or heavy equipment shall be utilized to collect the contaminated material. Contaminated soil shall be disposed of in accordance with state and federal regulations.		

		2. Above-ground tanks, valves and other equipment shall be visually inspected monthly and when the tank is refilled. Inspection records shall be maintained. Applicants shall periodically check tanks for leaks or spills. 3. Drain valves on all tanks shall be locked to prevent accidental or unauthorized discharges from the tank. 4. Equipment maintenance shall be conducted in staging areas or other suitable locations (i.e., maintenance shops or yards) to the extent practical. 5. The Applicant shall maintain equipment in operating condition to reduce the likelihood of fuel or oil line breaks and leakage. Any vehicles with chronic or continuous leaks shall be removed from the site and repaired before being returned to operation. h. Applicants are encouraged, but not required, to use an alternate to silica sand as a proppant, after Division of Oil Gas and Geothermal Resources has determined that such an alternative does not introduce new hazards. **MM 4.8-4** The Applicant shall implement the following measures to prevent, repair, and remediate accidental leaks and spills from oil and gas operations. a. The Applicant shall identify gas, oil and produced water pipelines to be used for each new or reworked well site in its Site Plan, and shall show the location of any sensitive receptor located within 300 feet of any such pipeline. For any pipeline located within 300 feet of a sensitive receptor, the Applicant shall present evidence that each such pipeline has been integrity tested using pressure testing or other accepted test methods by a qualified professional within a two-year period prior to submittal of the Site Plan, and shall provide a copy of the test result to the County. For all waste gas lines less than or equal to 4 inches in diameter, a Pipeline Management Plan shall be developed and implemented in accordance with Division of Oil Gas and Geothermal Resources regulations Title 14, Division 2, Chapter 4, Section 1774.2. The Pipeline Management Plan shall include: 1. A listing of information on each pipeline including, but not limited to: i. Pipeline type. ii. Grade. iii. Installation date of pipeline. iv. Design and operational pressure. v. Any leak, repair, inspection and testing history. 2. A description of the testing method and schedule for all pipelines. b. The Applicant shall notify the Kern County Environmental Health Division, Certified Union Program Agency (CUPA), surface landowner, and sensitive receptors located within 300 feet, of any hazardous materials/waste release immediately upon discovery, and to other applicable agencies as required by other laws. The Applicant shall immediately contain the leak (e.g., by isolating or shutting down the leaking equipment), clean up contaminated media (e.g., soils), and repair the leak prior to recommencing operations. The Applicant shall report the status and progress of the leak repair and remediation work to the County and the CUPA on monthly intervals or predetermined intervals until the repair has been completed. Contaminated media shall be analyzed according to 22 C.C.R. §§ 66261.21-66261.24 for determination of appropriate hazardous waste disposal. Hazardous Waste Determination procedures are provided in 22 C.C.R. § 66262.11. c. As part of the Site Plan, the Applicant shall identify the location and right of way for all pipelines to be used for the transport of oil, gas, and produced water, including pipelines that intersect the main transport line, based on existing data and using commercially available technology, and, based on the results of this analysis, shall identify any sensitive receptors within 300 feet of the pipeline for purposes of complying with Mitigation Measure 4.8-4. Mechanical integrity testing of all such pipeline lengths within 300 feet of a sensitive receptor shall be required pursuant to Mitigation Measure 4.8.4-a. d. If a release, identified pursuant to subsection (b), cannot be repaired or remediated within 48 hours, and has potential impact to sensitive receptors, the Applicant shall incur costs to sample and analyze the potentially affected area, which may include soil, groundwater, outdoor or indoor air of sensitive receptors within 300 feet of the leak. Applicant shall pay all temporary relocation costs (e.g., housing,		

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		food, and transportation) for any exposed sensitive receptor until such time as the leak has been repaired and post-indoor air testing has been completed, as confirmed by identified agency having oversight of the remediation. **MM 4.8-5** If, during grading or excavation work, the Applicant observes evidence of contamination or if soil contamination is suspected, work near the excavation site shall be terminated, the work area cordoned off and appropriate health and safety procedures implemented for the location by the contractor's Health and Safety Officer. Samples shall be collected by a trained and qualified individual. Analytical data from suspected contaminated material shall be reviewed by the contractor's Health and Safety Officer. If the sample testing determines that contamination is not present, work may proceed at the site; however, if contamination is detected above regulatory limits, the Kern County Public Health Services Department shall be notified. All actions related to encountering unanticipated hazardous materials at the site shall be documented and submitted to the Kern County Public Health Services Department. **MM 4.8-6** The Applicant shall implement measures to prevent the release or accidental spillage of solid waste, garbage, construction debris, sanitary waste, industrial waste, naturally occurring radioactive materials, oil and other petroleum products, and other wastes into water bodies or water sources, including all applicable practices included in the most up-to-date versions of the following documents: *Exemption of Oil and Gas Exploration and Production Wastes From Federal Hazardous Waste Regulations (EPA 2002).* Equivalent industry standards such as Environmental Protection for Onshore Oil and Gas Productions and Leases (American Petroleum Institute 2009) and related standards may also be utilized, provided that a professional engineer, certified industrial hygienist or certified safety professional certifies to the County that such alternative standards are as or more protective of human health and the environment, as compared to the standards in the referenced Environmental Protection Agency manual. The determination of when and the extent to which a measure is "practical" is to be made by the Applicant; however, all of the below activities must comply with all applicable legal requirements, including federal and state laws and regulations, County ordinances, and the mitigation measures included in this Final EIR. a. Classify the various oil and gas exploration and production wastes for proper disposal as described in United States Environmental Protection Agency 2002, and in accordance with applicable California laws and regulations.. b. Size reserve pits properly to avoid overflows. c. Use closed loop mud systems when practical, particularly with oil-based muds. d. Review safety data sheets of materials used, and select less toxic alternatives when possible. e. Minimize waste generation, such as by designing systems with the smallest volumes possible (e.g., drilling mud systems). f. Reduce the amount of excess fluids entering reserve and production pits. g. Keep non-exempt wastes out of reserve or production pits. h. Design the drilling pad to contain stormwater and rigwash. i. Recycle and reuse oil-based muds and high density brines, when practical, and when such recycling and reuse complies with hazardous waste laws and recycling laws. j. Perform routine equipment inspections and maintenance to prevent leaks or emissions. k. Reclaim oily debris and tank bottoms when practical, and when such reclamation complies with hazardous waste laws and recycling laws. l. Minimize the volume of materials stored at facilities. m. Construct adequate berms around materials and waste storage areas to contain spills.		

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		n. Perform routine inspections of materials and waste storage areas to locate damaged or leaking containers. o. Train personnel to use sensible waste management practices. **MM 4.8-7** Conduct exploration and development activities as described in *Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development The Gold Book* (Bureau of Land Management 2007) or equivalent industry standard such as Environmental Protection for Onshore Oil and Gas Production Operations and Leases (American Petroleum Institute 2009) and related standards. The following specific measures should be undertaken at a minimum: a. Sufficient impervious secondary containment, such as containment dikes, containment walls, and drip pans, should be constructed and maintained around all qualifying petroleum facilities, including tank batteries and separation and treating areas consistent with the Environmental Protection Agency's Spill Prevention, Control, and Countermeasures regulation (40 Code of Federal Regulations 112). The containment structure must have sufficient volume to contain, at a minimum, the content of the largest storage tank containing liquid hydrocarbons within the facility/battery and sufficient freeboard to contain precipitation, unless more stringent protective requirements are deemed necessary by the authorized officer. Drip pans should be routinely checked and cleaned of petroleum or chemical discharges and designed to prevent access by wildlife and livestock. b. Chemical containers should not be stored on bare ground, and should be maintained in good condition and placed within secondary containment in case of a spill or high velocity puncture. c. Containment dikes are not to be constructed with topsoil or coarse, insufficiently impervious spoil material. Containment is strongly suggested for produced water tanks. Chemicals should be placed within secondary containment and stored so that the containers are not in contact with soil or standing water and product and hazard labels are not exposed to weathering. d. Maintain a clean well location. Remove trash, junk, and other materials not in current use. e. In approving a well stimulation treatment permit, the applicant shall include in the spill contingency plan required by Section 1722.9 of Title 14 of the California Code of Regulations a protocol for measuring and reporting earthquake and earth consequences that occur during the well stimulation process, for however many well stimulation treatments are proposed to occur simultaneously at any given time. The Spill Contingency Plan shall include requirements for adequate personnel and equipment that may be necessary to conduct post-earthquake inspection and repair plans to evaluate any damage that has occurred. The Spill Contingency Plan shall include spill prevention, control and countermeasure plans to address the hazardous substances associated with well stimulation activities. The post-earthquake inspection procedures shall ensure the integrity of the mechanical systems and well integrity of wells used for stimulation or wastewater injection and idle wells that might have become conduits for escaping fluids or gases. The plan shall include procedures describing the necessary steps to be taken after service is disrupted in order to make the facilities secure, operational and safe as soon as possible.		

		MM 4.8-8	Applicants shall use the appropriate American Petroleum Institute Standards, or other recognized sources imposing the same or equivalent standards, for their facility, such as the following: a. Use cements and well materials in well completions as described in Specifications for Cements and Materials for Well Cementing (American Petroleum Institute 2011). b. Prior to start-up of all new facilities, verify and prove the construction, installation, integration, testing, and preparation of systems have been completed as designed following the practices described in Facilities Systems Completion Planning and Execution (American Petroleum Institute 2013a). c. When the use of centralizers and stop-collars are required during well completion activities, follow the installation and testing requirements described in Recommended Practice for Centralizer Placement and Stop-collar Testing (American Petroleum Institute 2010a). d. Limit the environmental footprint of oil and gas exploration and production and reduce the incidence of releases of hazardous substances following the practices described in Environmental Protection for Onshore Oil and Gas Production Operations and Leases (American Petroleum Institute 2009). e. Minimize improper disposal by following the practices described in American Petroleum Institute Order No. G00004, Guidelines for Commercial Exploration and Production Waste Management Facilities (American Petroleum Institute 2001) or other recognized methods. These guidelines discuss the relevant regulations and permitting requirements; siting, construction, and technical consideration for various waste disposal options; as well as mitigation options. f. Minimize the environmental footprint of exploration and production activities following the practices described in Land Drilling Practices for Protection of the Environment (American Petroleum Institute 2010b) or other recognized sources. g. When pressure testing is required by State or federal law, prior to pressurizing or re-pressurizing petroleum product pipelines, ensure the integrity of pipelines following the practices described in Recommended Practice for the Pressure Testing of Steel Pipelines for the Transportation of Gas, Petroleum Gas, Hazardous Liquids, Highly Volatile Liquids, or Carbon Dioxide (American Petroleum Institute 2013b) or other recognized sources. h. To minimize releases of hazardous substances during oilfield construction, pit and sump operations shall be conducted in accordance with State Water Resources Control Board General Orders or appropriate Regional Water Quality Control Board waste discharge requirements or general orders.		
		MM 4.8-9	For all operations subject to the Oil and Gas Conformity Review, the Applicant shall comply with the pipeline management plan, including inspection and maintenance requirements, as administered by the Division of Oil Gas and Geothermal Resources pursuant to 14 California Code of Regulations 1774.		
		MM 4.8-16	The applicant shall not use any well stimulation fluid unless the applicant presents one of the following: 1. Safety Data Sheet that accurately describes the physical and chemical properties of the well stimulation fluid; or 2. Safety Data Sheets that accurately describe the physical and chemical properties of all chemical compounds in the well stimulation fluid; or 3. Toxicological report prepared by a qualified laboratory and/or the fluid vendor confirming the environmental profile of the well stimulation fluid is known; or 4. Results of an aquatic bioassay by a qualified laboratory confirming the environmental profile of the well stimulation fluid is known. For purposes of this mitigation measure, the term “environmental profile” means the physical and chemical properties of a compound that determine its risk to human health and the environment. This mitigation measure shall be superseded by any list of approved well stimulation treatment fluids, chemicals or additives published by the State of California or by any applicable State of California regulation pertaining to chemical use in well stimulation treatment.		

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
Impact 4.8-2 Create a Significant Hazard to the Public or the Environment through Reasonably Foreseeable Upset and Accident Conditions Involving the Release of Hazardous Materials into the Environment	Potentially significant	Implement MM 4.8-1 through MM 4.8-9, as described above, and **MM 4.8-10** The Applicant shall incorporate annual maintenance checks for leaks and corrosion that cause releases into current operations, maintenance, and inspection schedules as provided by the Division of Oil Gas and Geothermal Resources pursuant to 14 California Code of Regulations Sections 1774.1 and 1774.2, the Applicant shall visually inspect all above-ground pipelines for leaks and corrosion at least once per year, comply with the pipeline testing requirements included therein, shall maintain records of such inspections and testing; and shall make inspection and testing records available to the County for review upon request. **MM 4.8-11** As part of the Hazardous Materials Business Plan and the spill prevention, control, And countermeasures Plan, the Applicant shall require annual worker training requirements to: increase awareness of the most common types of failures and methods to avoid mistakes, shall maintain records of employee training, and shall make such records available to the County for review upon request. **MM 4.8-12** An Applicant who plans to perform cyclic steam injection activities above reservoir fracture pressures shall conduct such activities in accordance with the requirements set forth in the Division of Oil Gas and Geothermal Resources site-specific Project Approval Letter for the injection project. The following requirements from a Project Approval Letter for an injection project are examples of the types of conditions that would be triggered if a surface expression were to occur, though such conditions may be modified by the Division of Oil Gas and Geothermal Resources to reflect site-specific conditions and changing regulatory requirements. a. Cease cyclic steaming operations in accordance with the site-specific Project Approval Letter. Streaming can resume following the Division of Oil Gas and Geothermal Resources specifications outlined in the Project Approval Letter. b. All new or reactivated surface expressions that discharge oil in a reportable quantity shall be reported as an oil spill to the California Emergency Management Agency at (800) 852-7550. c. Any measures to address surface expressions from the well and associated Project shall be reviewed by the Division of Oil Gas and Geothermal Resources prior to initiating. d. Immediately control any water, steam, or oil flowing from a surface expression and contained. All discharged material shall be removed and disposed of in a manner approved by all state and local agencies. e. Cordon off and clearly mark all surface expressions to prevent inadvertent access. f. Conduct air sampling of any emissions associated to a recent surface expression in accordance to the local air board requirements to ensure a health hazard condition does not exist. g. Report immediately to the Division of Oil Gas and Geothermal Resources all surface expressions within 300 feet of the Project site. If the surface expression continues to flow after five days, all wells within a 300-foot radius shall cease steaming until the surface expression ceases to flow. If the surface expression continues to flow, the damage will be evaluated at the Supervisor's discretion, as assigned by Section 3106 of the Public Resources Code and existing laws and regulations. **MM 4.8-13** The Applicant shall comply with the Division of Oil Gas and Geothermal Resources requirements for assuring safe drilling and drill casing practices, well design, construction and well management requirements, blowout requirements, and all other provisions of 14 California Code of Regulations 1744 and other applicable Division of Oil Gas and Geothermal Resources regulations. The Applicant shall also reduce the incidence of well control loss by following the practices described in Recommended Practice for Well Control Operations (American Petroleum Institute 2012). **MM 4.8-14** The Applicant shall report contamination caused by oil and gas activities, including previously unknown injection wells, of a reportable quantity of hazardous substances, as specified in the Code of Federal Regulations Title 40 and/or the California Code of Regulations Titles 22 and 23, which is discovered during Project construction activities and operations. Notification must be made to Kern County	Less than significant	All Tiers

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		Environmental Health Division and the appropriate implementing regulatory agency that has responsibility or oversight of the specific contamination conditions. The Applicant shall remediate such contamination outside Tier 1 areas as required by the Kern County Environmental Health Division and the appropriate implementing regulatory agency.		
Impact 4.8-3 Emit Hazardous Emissions or Handle Hazardous or Acutely Hazardous Materials, Substances, or Waste within One-Quarter Mile of an Existing or Proposed School	Potentially significant	Implement toxic air contaminant setback mitigation measures, as described in Section 4.3, Air Quality, and **MM 4.8-15** The Applicant who intends to use acutely hazardous chemicals, including chemicals at or above the specified threshold quantities or a process which involves a Category 1 flammable gas or a flammable liquid with a flashpoint below 100 degrees Fahrenheit (37.8 degrees Celsius) on site in one location, in a quantity of 10,000 pounds (4535.9 kilograms) or more according to 8 California Code of Regulations Section 5189, Appendix A, within 0.25 mile from a school must: a. Evaluate whether other alternative chemicals that are less hazardous could be used. b. Ensure that the smallest quantity of necessary acutely hazardous materials are stored on site. c. Notify the occupants of the buildings when and where acutely hazardous materials would be used. d. Notify Kern County Fire Department about the details of the use of acutely hazardous materials (e.g., when, where, how much). e. Ensure that all employees who would contact the acutely hazardous materials are trained on the handling, transport, storage, and disposal of the materials. f. Ensure that all employees who would contact the acutely hazardous materials are trained and are provided the proper personal protective equipment. g. Ensure that all employees who would contact the acutely hazardous materials are trained and have exercised on the Spill Prevention, Control, and Countermeasures Plan that addresses these chemicals.	Less than significant	All Tiers
Impact 4.8-4 Create a Hazard to the Public or the Environment as a Result of Being a Site that is Included on a List of Hazardous Materials Sites Compiled Pursuant to Government Code Section 65962.5	Potentially significant	Implement MM 4.8-14, as described above, and MM 4.8-17 and MM 4.8-18, as described under Impact 4.8-5.	Less than significant	All Tiers
Impact 4.8-5 For a Project Located within the Adopted Airport Land Use Compatibility Plan, Result in a Safety Hazard for People Residing or Working in the Area	Potentially significant	**MM 4.8-17** The Applicant shall determine whether any proposed construction or alteration meets requirements for notification of the Federal Aviation Administration. If a proposed construction or alteration is found to require notification, the Applicant shall notify the Federal Aviation Administration and request that the Federal Aviation Administration issue a Determination of No Hazard to Air Navigation. If the Federal Aviation Administration determines that the construction or alteration would result in a potential hazard to air navigation, the Applicant would be required to work with the Federal Aviation Administration to resolve any adverse effects or airport operations. The Applicant shall notify the Federal Aviation Administration and the nearest Airport, by completing and submitting Federal Aviation Administration Form 7460-1 if oil and gas related exploration, production, or associated development activities are planned that meet one or more of the following criteria: a. Any construction or alteration exceeding 200 feet above ground level. b. Any construction or alteration within 20,000 feet of all public use airports except Poso-kern Airport which exceeds a 100:1 surface from any point on the runway.	Less than significant	All Tiers

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		c. Any construction or alteration within 10,000 feet of the Poso-Kern Airport which exceeds a 50:1 surface from any point on the runway. d. Any construction or alteration within 5,000 feet of a public use heliport which exceeds a 25:1 surface. e. When requested by the Federal Aviation Administration. f. Any construction or alteration located on a public use airport or heliport regardless of height or location. **MM 4.8-18** The Applicant shall determine the distance from the proposed operation to the nearest boundary of the Joint Service Restricted R-2508 Complex, using a map of this Complex provided by the County. The Applicant shall notify the Joint Service Restricted R2508 Complex representative identified by the County if oil and gas related exploration, production, or associated development activities are planned that meet one or more of the following criteria: a. Any structure within 75 miles of the R-2508 Complex that is greater than 50 feet tall. b. Any project within 50 miles of the R-2508 Complex that emit radio and communication frequencies. c. Any project that would create environmental impacts such as visibility or elevated obstructions within 25 miles of the R-2508 Complex. **MM 4.8-19** All oil and gas related development activities shall review the Kern County Airport Land Use Compatibility Plan for compliance with all applicable policies.		
Impact 4.8-6 Result in Safety Hazard for People Residing or Working in Project Area within Vicinity of a Private Airstrip	Less than significant	None required.	Less than significant	All Tiers
Impact 4.8-7 Impair Implementation of, or Physically Interfere with, an Adopted Emergency Response Plan or Emergency Evacuation Plan	Less than significant	None required.	Less than significant	All Tiers
Impact 4.8-8 Expose People or Structures to a Significant Risk of Loss, Injury, or Death Involving Wildland Fires, Including Where Wildlands are Adjacent to Urbanized Areas or Where Residences are Intermixed with Wildlands	Less than significant	**MM 4.8-20** The Applicant is required to implement the following measures: a. Comply with Kern County Fire Codes. b. Maintain firefighting apparatus and supplies required by the Kern County Fire Department. c. Maintain of a list of all relevant fire-fighting authorities for each work site. d. Have available equipment to extinguish incipient fires and or construction of a fire break, such as: chemical fire extinguishers, shovels, axes, chain saws, etc. e. Carry water or fire extinguishers and shovels in non-passenger vehicles in the field. f. Have and maintain an adequate supply of fire extinguishers for welding, grinding, and brushing crews. g. Use available resources to protect individual safety and to contain any fire that occurs and notify local emergency response personnel. h. Remove any flammable wastes generated during oil and gas activities regularly.	Less than significant	All Tiers

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		i. Store all flammable materials used in oil and gas activities away from ignition sources and in approved containers. j. Allow smoking only in designated smoking areas. k. Prohibit smoking where flammable products are present and when the fire hazard is high. Train personnel regarding potential fire hazards and their prevention. l. All internal combustion engines, stationary and mobile, shall be equipped with spark arresters. Spark arresters shall be in good working order. m. Light trucks and cars with factory-installed (type) mufflers shall be used only on roads where the roadway is cleared of vegetation. Said vehicle types shall maintain their factory-installed (type) muffler in good condition. n. Fire rules shall be posted on the Project bulletin board at the contractor's field office and areas visible to employees. o. Equipment parking areas and small stationary engine sites shall be cleared of all extraneous flammable materials. p. Personnel shall be trained in the practices of the Fire Safety Plan relevant to their duties. Construction and maintenance personnel shall be trained and equipped to extinguish small fires in order to prevent them from growing into more serious threats. **MM 4.8-21** The Applicant should restrict the use of chainsaws, chippers, vegetation masticators, grinders, tractors, torches, and explosives at its locations, and ensure the sites where this equipment is used are equipped with portable or fixed fire extinguishers and/or a water tank, with hoses, fire rakes, and other tools to extinguish and or control incipient stage fires. The Worker Environmental Awareness Program shall include fire prevention and response training for workers using these tools.		
Impact 4.8-9 Generate Vectors or Have a Component that Includes Agricultural Waste Exceeding Adopted Qualitative Thresholds	Less than significant	Implement dust control and Valley Fever education and mask measures as described in Section 4.3, Air Quality, and **MM 4.8-22** Applicants shall ensure that trash is stored in closed containers and removed from the site at regular intervals. Open containers shall be inverted and construction ditches shall not be allowed to accumulate water. Construction and maintenance operations shall not generate standing water. Naturally occurring depressions, drainages, or pools at the site shall not be drained or filled without consulting with the appropriate resource agency (Kern County, United States Army Corps of Engineers, United States Fish and Wildlife Service, California Department of Fish and Wildlife) as applicable, and obtaining the appropriate permits.	Less than significant	All Tiers
Impacts 4.8-10 Contribute to Cumulative Hazards and Hazardous Materials Impacts	Potentially significant	Implement MM 4.8-1 through MM 4.8-22, as described above, and dust control and toxic air contaminant setback mitigation measure, as described in Section 4.3, Air Quality, risk reduction measures, as described in Section 4.6, Geology and Soils, and mitigation measures to maintain water quality, as described in Section 4.9, Hydrology and Water Quality.	Less than significant	All Tiers
Hydrology and Water Quality				
Impact 4.9-1 Violate any Water Quality Standards or Waste Discharge Requirements	Potentially significant	**MM 4.9-1** The Applicant shall comply with all applicable federal, state, regional and local agency water quality protection laws and regulations, and commonly utilized industry standards, including (where applicable) obtaining coverage under the stormwater construction general permit and industrial general permit issued by the State Water Resources Control Board and complying with industry stormwater management standards for construction and operational activities. The applicant shall obtain all required permits from Division of Oil Gas and Geothermal Resources, and such permits shall include measures that will safeguard protected groundwater with appropriate casing, seal and related down-hole technical specifications.	Less than significant	All Tiers

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		MM 4.9-2 A. Oil and Gas activities in Tier 1 shall comply with the following: 1. In areas subject to National Pollutant Discharge Elimination System stormwater permitting requirements, project applicants shall file a Notice of Intent to the State Water Resources Control Board to comply with the statewide General Permit for Discharges of Stormwater Associated with Construction Activities (Construction General Permit State Water Resources Quality Control Board Order No 2009-009-DWO) prior to undertaking all ground-disturbing activities greater than one acre and shall prepare and implement a Stormwater Pollution Prevention Plan for construction activities on the Project site in accordance with the Construction General Permit. For facilities requiring coverage under the Construction General Permit, the site specific Stormwater Pollution Prevention Plan shall include measures to achieve the following objectives: (1) all pollutants and their sources, including sources of sediment associated with construction activity are controlled; (2) all non-stormwater discharges are identified and either eliminated, controlled and treated, (3) site Best Management Practices are effective and result in the reduction or elimination of pollutants in stormwater discharges and authorized non-stormwater discharges from construction activity and (4) stabilization Best Management Practices to reduce or eliminate pollutants after construction are completed. The Stormwater Pollution Prevention Plan shall be prepared by a qualified preparer and shall include the minimum Best Management Practices required for the identified risk level. The Stormwater Pollution Prevention Plan shall include a construction site monitoring program that identified requirements for dry weather visual observations of pollutants at all discharge locations and , as appropriate, depending on the project risk level, sampling of site effluent and receiving waters. A qualified Stormwater Pollution Prevention Plan practitioner shall be responsible for implementing and all monitoring for the Best Management Practices as well as all inspection, maintenance and repair activities at the project site. If applicable, each project shall also implement and fully comply with the Industrial Storm Water Permit (Order No 97-03-DWO) and Kern County Municipal Stormwater Permit (Order No 5-01-120). All plans under these requirements shall be submitted to Kern County Public Works for review and approval. 2. Any operator of a facility that meets the following requirements is not required to be covered by the Construction General Permit (State Water Regional Control Board Memorandum dated 5-18-2010): a. discharges of stormwater runoff from oil and gas exploration, production, processing or treatment operations or transmission facilities, including field activities or operations that may be considered construction activity; 1. are not contaminated by contact with, or do not come into contact with, any overburden, raw material, intermediate products, finished product, byproduct or waste products; 2. are only contaminated by or only come into contact with sediment; and 3. pursuant to 40.C.F.R. § 122.26(c)(1) (iii) that do not contribute to a violation of a water quality standard. Any change to this State Water Regional Control Board determination will require full compliance with National Pollutant Discharge Elimination System requirements. 3. Any operator not subject to National Pollutant Discharge Elimination System stormwater permitting requirements shall implement Best Management Practices during construction and operation. All selected practices shall be shown on a drainage implementation plan and		

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		self-certified as complete and feasible by a licensed professional qualified in drainage and flood control issues. The plan shall be submitted to the Kern County Planning and Community Development department. The following Best Management Practices shall be implemented and shown on the drainage implementation plan : a. Utilizing established facilities design, construction or similar standards as appropriate (e.g., American Society for the Testing and Materials (ASTM) American Petroleum Institute (API)). b. Implementation good housekeeping and maintenance practices: i. Preventing trash, waste materials and equipment from construction storm water. ii. Maintaining wellheads, compressors, tanks and pipelines in good condition without leaks or spills. iii. Designing and maintaining graded pads to not actively erode and discharge sediment iv. Maintaining vehicles in good working order v. Providing secondary containment for all –above –ground storage tanks and maintaining such containment features in good operating condition c. Implementing spill prevention and response measures i. Utilizing preventative operating practices such as tank level monitoring, safe chemical handling and conducting regular inspections. ii. Developing and maintaining a spill response plan iii. Conducting spill response training for employees and have a process to ensure contractors have the necessary training iv. Maintaining spill response equipment on site. d. Implementing material storage and management practices: i. Preventing unauthorized access ii. Utilizing “run-on” and “run-off” control berms and swales		

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		iii. Stabilizing exposed slopes through vegetation and other appropriate methods (e.g., hay bales or rolls). B. Oil and gas activities outside Tier 1 shall comply with all applicable state and federal stormwater management laws. For any oil and gas activity outside Tier 1 that is not subject to state or federal stormwater management laws, regulations or general permits, the Applicant shall prepare a drainage plan that is designed to minimize runoff and minimize the potential for impeding or redirecting 100-year flood flows. The drainage plan shall be prepared in accordance with the Kern County Grading Code, the Green Code and approved by the Kern County Department of Public Works, Floodplain Management Section. The plan shall specify best management practices to prevent all construction pollutants from contacting stormwater, with the intent of keeping sedimentation or any other pollutants from moving offsite and into receiving waters. The requirements of the Plan shall be incorporated into design specifications. Recommended best management practices for the construction phase must be shown on a drainage plan, and shall include the following: a. Erosion Control - 1. Scheduling of construction activities to avoid rain events. 2. Limiting vegetation removal to the minimum required. b. Sediment Control - 1. Secure stockpiling of soil. 2. Installation of a stabilized construction entrance/exit and stabilization of disturbed areas. c. Non-stormwater Control - 1. Proper fueling and maintenance of equipment and vehicles. 2. Proper concrete handling techniques. d. Waste and Material Management - 1. Properly managing construction materials, designating construction staging areas in or around the Project site. 2. Stockpiling and disposing of demolition debris, concrete, and soil properly. 3. Prompt removal and proper disposal of litter. 4. Proper disposal of demolition debris, concrete and soil. 5. Proper protections for fueling and maintenance of equipment and vehicles.		

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		6. Provide and maintain adequate secondary containment to minimize or eliminate pollutants from moving offsite and into receiving waters. e. Post-Construction Stabilization - 1. Ensuring the stabilization of all disturbed soils per revegetation or application of a soil binder. C. If construction activities will alter federal jurisdictional waters, project applicants shall comply with the federal Clean Water Act Section 404 and Section 401 permitting and certification requirements. If construction activities will alter state waters, project applicants shall comply with California Department of Fish and Wildlife Streambed Alteration requirements. **MM 4.9-3** All drilling operations must either use a closed loop system to avoid discharges of drilling muds and fluids, or obtain coverage under the State Water Resources Control Board low threat discharge General Order (Waste Discharge Requirements General Order 2003-0003-DEW), obtain individual Waste Discharge Requirements issued by the Central Valley Regional Water Quality Control Board for the unit, or obtain coverage under a general order issued by the Central Valley Regional Water Quality Control Board applicable to drilling ponds. Any surface ponds or sumps must be cleared of fluids and muds in accordance with the State Water Resources Control Board general order, applicable Water Discharge Requirements and Division of Oil Gas and Geothermal Resources regulations. Compliance with the State Water Resources Control Board or Central Valley Regional Water Quality Control Board low-threat discharge orders or Water Discharge Requirements, if closed-loop systems are not used, and applicable laws, regulations and standards will reduce potential surface water quality impacts from contact with drilling muds or fluids during drilling and construction to less than significant levels. After consultation with and approval by the Regional Water Board with jurisdiction over injection and groundwater, applicant shall provide for a tracer or some other reasonable method to allow well stimulation fluids to be distinguished from other fluids or chemicals for well stimulation permits. This could consist of an added tracer using an inert constituent that could be used to identify the presence of well stimulation fluids. Alternatively, it could be an intrinsic tracer, or some naturally occurring component that makes the well stimulation fluids chemically unique. Potential geochemical changes in the subsurface during injection or migration shall be considered. Use of a tracer shall be required to be disclosed to the public under Section 1788 of the SB 4 regulations. The regulations specifically require that the applicant require the composition and disposition of all well stimulation treatment fluids other than water, including “any radiological components or tracers injected into the well as part of the well stimulation treatment, a description of the recovery method, if any, for those components or tracers, the recovery rate, and specific disposal information for the recovered components or tracers a radiological component or tracer injected” (Section 1788 (15)). For any well stimulation treatment activity, the applicant shall not conduct well stimulation treatment activity until the State Water Resources Control Board, in consultation with the Central Valley Regional Water Quality Control Board, has approved either a groundwater monitoring plan or exclusion from groundwater monitoring for a given well, consistent with the State Water Resources Control Board Model Criteria for Groundwater Monitoring in Areas of Oil and Gas Well Stimulation. **MM 4.9-4** For any activity for which Chapter 19.98 applies, the Applicant shall not conduct any Class II injection activity regulated by the Underground Injection Control program, including enhanced oil recovery activities that discharge into any underground source of current or future beneficial use groundwater, including drinking water, unless the aquifer has been exempted by the United States Environmental Protection Agency or injection has otherwise been authorized by the U.S. Environmental Protection Agency or by the Division of Oil Gas and		

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		Geothermal Resources, in consultation and agreement by the State Water Resources Control Board, consistent with Public Resources Code 3131. **MM 4.9-5** For any activity for which Chapter 19.98 applies, the Applicant shall not discharge produced water into any surface disposal facility unless the facility has received the Waste Discharge Requirements from the Central Valley Regional Water Quality Control Board, or the need for Water Discharge Requirements has been waived by the Central Valley Regional Water Quality Control Board. As required by the SB 4 regulations, well stimulation treatment fluids and produced fluids from wells that have been stimulated cannot be stored, discharged, or disposed into surface ponds or pits. **MM 4.9-6** For any oil and gas activity within a Special Flood Hazard Area, the Applicant shall ensure that all constructed facilities are elevated or floodproofed in compliance with the requirements and standards found in the Kern County Floodplain Management Ordinance and Chapters 19.50 and 19.70 of the Kern County Zoning Code.		
Impact 4.9-2 Substantially Deplete Groundwater Supplies or Interfere Substantially with Groundwater Recharge such that There Would be a Net Deficit In Aquifer Volume or a Lowering of the Local Groundwater Table Level (e.g., the Production Rate of Pre-Existing Nearby Wells Would Drop to a Level That Would Not Support Existing Land Uses or Planned Uses for Which Permits Have Been Granted)	Potentially significant	Implement MM 4.9-1 through MM 4.9-6, as described above, and the groundwater mitigation measures described in Section 4.17, Utilities and Service Systems.	Significant and unavoidable	All Tiers
Impact 4.9-3 Substantially Alter the Existing Drainage Pattern of the Site or Area, Including Through the Alteration of the Course of a Stream or River, in a Manner That Would Result in Substantial Erosion or Siltation On-site or Off-site	Less than significant	Implement MM 4.9-1 through MM 4.9-6, as described above, and the groundwater mitigation measures described in Section 4.17, Utilities and Service Systems.	Less than significant	All Tiers
Impact 4.9-4 Substantially Alter the Existing Drainage Pattern of the Site or Area, Including Through the Alteration of the Course of a Stream or River, or Substantially Increase the Rate or Amount of Surface Runoff in a Manner That Would Result in Flooding On-site or Off-site	Less than significant	Implement MM 4.9-1 through MM 4.9-6, as described above, and the groundwater mitigation measures described in Section 4.17, Utilities and Service Systems.	Less than significant	All Tiers

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
Impact 4.9-5 Create or Contribute Runoff Water That Would Exceed the Capacity of Existing or Planned Stormwater Drainage Systems or Provide Substantial Additional Sources of Polluted Runoff	Less than significant	Implement MM 4.9-1 through MM 4.9-6, as described above.	Less than significant	All Tiers
Impact 4.9-6 Otherwise Substantially Degrade Water Quality	Less than significant	Implement MM 4.9-1 through MM 4.9-6, as described above, and the groundwater mitigation measures described in Section 4.17, Utilities and Service Systems.	Less than significant	All Tiers
Impact 4.9-7 Place Housing within a 100-year Flood Hazard Area as Mapped on a Federal Flood Hazard Boundary or Flood Insurance Rate Map or Other Flood Hazard Delineation Map	No impact	No mitigation measures are required since the Project does not include housing development.	No impact	All Tiers
Impact 4.9-8 Place Within a 100-Year Flood Hazard Area Structures That Would Impede or Redirect Flood Flows	Potentially significant	Implement MM 4.9-1 through MM 4.9-6, as described above.	Less than significant	All Tiers
Impact 4.9-9 Expose People or Structures to a Significant Risk of Loss, Injury, or Death Involving Flooding, Including Flooding as a Result of the Failure of a Levee or Dam	Potentially significant	Implement MM 4.9-1 through MM 4.9-6, as described above, and the groundwater mitigation measures described in Section 4.17, Utilities and Service Systems.	Less than significant	All Tiers
Impact 4.9-10 Contribute to Inundation by Seiche, Tsunami, or Mudflow	No impact	No mitigation measures are required.	No impact	All Tiers
Impact 4.9-11 Contribute to Cumulative Hydrology and Water Quality Impacts	Potentially significant	Implement MM 4.9-1 through MM 4.9-6, as described above, and the groundwater mitigation measures described in Section 4.17, Utilities and Service Systems. The County lacks jurisdiction and control over land conversions, and actions or approvals by other agencies that may cause cumulatively significant impacts to hydrology or water quality in the region; accordingly this impact remains significant and unavoidable.	Significant and unavoidable	All Tiers
Land Use and Planning				

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
Impact 4.10-1 Physically Divide an Established Community	Less than significant	Implement specified mitigation measures, including those that are applicable from Section 4.1, Aesthetics and Visual Resources, Section 4.3, Air Quality, Section 4.4 Biological Resources, Section 4.12, Noise, Section 4.15, Recreation, and Section 4.17, Utilities and Service Systems.	Less than significant	All Tiers
Impact 4.10-2 Conflict with Any Applicable Land Use Plan, Policy, or Regulation of an Agency with Jurisdiction Over the Project	Less than significant	No mitigation measures are required.	Less than significant	All Tiers
Impact 4.10-3 Conflict with Any Applicable Habitat Conservation Plan or Natural Community Conservation Plan	Less than significant	No mitigation measures are required.	Less than significant	All Tiers
Impact 4.10-4 Contribute to Cumulative Land Use Impacts	Less than significant	No mitigation measures are required.	Less than significant	All Tiers
Minerals				
Impact 4.11-1 Result in the Loss of Availability of a Known Mineral Resource that Would be of Value to the Region and the Residents of the State	Less than significant	No mitigation measures are required.	Less than significant	All Tiers
Impact 4.11-2 Result in the Loss of Availability of a Locally Important Mineral Resource Recovery Site Delineated on a Local General Plan, Specific Plan, or Other Land Use Plan	Less than significant	No mitigation measures are required.	Less than significant	All Tiers
Impact 4.11-3 Contribute to Cumulative Mineral Resources Impacts	Less than significant	No mitigation measures are required.	Less than significant	All Tiers
Noise				
Impact 4.12-1 Exposure of Persons to, or Generate, Noise Levels in Excess of Standards Established in the	Potentially significant	**MM 4.12-1** Construction: The Site Plan Application shall include a Site Vicinity Figure showing the location of any sensitive receptor(s) within the distances listed in the construction noise setbacks table, as shown below, of the construction site (potential impact area) for the proposed new well or other	Less than significant	All Tiers

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

<table>
<tr><th>Impact</th><th>Level of Significance before Mitigation</th><th>Mitigation Measure(s)</th><th>Level of Significance after Mitigation</th><th>Applicable Tier</th></tr>
<tr><td>Local General Plan or Noise Ordinance or Applicable Standards of Other Agencies</td><td></td><td>ancillary facility or equipment (excluding pipelines). This Figure need not be prepared for Tier 1 areas unless a sensitive receptor is located within 3,270 feet of a construction site inside the Tier 1 area.
a. If there are no sensitive noise receptors within this potential impact area, then no construction mitigation measures shall be required.
b. If there are sensitive human noise receptors within the potential impact area, then additional information must be provided showing the type of equipment being used and the noise contours with levels not exceeding 65 dB DNL at the nearest exterior wall of the sensitive receptor or more than 1 dB DNL higher than the ambient noise levels, if in excess of 65 dB DNL. If noise levels are shown to exceed 65 dB DNL or more than 1 dB DNL higher than the ambient noise levels in excess of 65 dB DNL, then one or more of the following mitigation measures shall be taken:
1. Placement of a temporary sound attenuation wall(s) shall be placed at the optimal distance to the sensitive receptor, as determined by an acoustical expert.
2. Construction of a temporary berm shall be placed at the optimal distance to the sensitive receptor, as determined by an acoustical expert.
3. Modification of equipment to reduce noise impacts.
4. Implementation of a quiet mode drilling plan or other sound reduction technology or practices as documented in a report submitted to the County.
5. Arranging for the voluntary, temporary relocation of the occupants of the sensitive receptor during the construction period.
6. Use the following setback distances for the activities specified:
Construction Noise Setbacks
<table>
<tr><th>Activity</th><th>Setback Distance (feet)</th></tr>
<tr><td></td><td></td></tr>
<tr><td>Drilling (Well Advancement)</td><td>1,550</td></tr>
<tr><td>Drilling (Pull Out Of Well/Borehole)</td><td>820</td></tr>
<tr><td>Large-Scale Exploratory Drilling[1]</td><td>3,270</td></tr>
<tr><td>Well Workover</td><td>930</td></tr>
<tr><td>Hydraulic Fracturing</td><td>1,090</td></tr>
</table>
Note:
[1]Kenai Drill Rig #7

Information submitted with the Site Plan Application must detail the combination and methods used to determine the level of reduction and shall not exceed 65 dB DNL or any ambient levels in excess of 65 dB DNL or more than 1 dB DNL higher than the ambient noise levels, if in excess of 65 dB DNL.</td><td></td><td></td></tr>
</table>

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		MM 4.12-2 Operation: New oil and gas wells shall be a minimum 210 feet from the closest sensitive receptor. Geophysical testing methods using vibroseis vehicles to generate sound waves shall be a minimum 150 feet from the closest occupied building, water well, sewer system, and septic tank. Geophysical testing methods using shotholes that employ explosives shall be a minimum 300 feet from the closest occupied building, water well, sewer system, and septic tank, and shall be in full compliance with all laws governing explosives.		
Impact 4.12-2 Exposure of Persons to, or Generate, Excessive Groundborne Vibration or Groundborne Noise Levels	Less than significant	No mitigation measures are required.	Less than significant	All Tiers
Impact 4.12-3 A Substantial Permanent Increase in Ambient Noise Levels in the Project Vicinity Above Levels Existing Without the Project	Potentially significant	Implement MM 4.12-2, as described above.	Less than significant	All Tiers
Impact 4.12-4 A Substantial Temporary or Periodic Increase in Ambient Noise Levels in the project Vicinity Above Levels Existing Without the Project	Potentially significant	Implement MM 4.12-1, as described above.	Less than significant	All Tiers
Impact 4.12-5 For a Project Located Within the Kern County Airport Land Use Compatibility Plan, Would the Project Expose People Residing or Working in the Project Area to Excessive Noise Levels	Potentially significant	Implement MM 4.12-1 and MM 4.12-2, as described above.	Less than significant	All Tiers
Impact 4.12-6 For a Project Located Within the Vicinity of a Private Airstrip, Would the Project Expose People Residing or Working in the Project Area to Excessive Noise Levels	Potentially significant	Implement MM 4.12-1 and MM 4.12-2, as described above.	Less than significant	All Tiers
Impact 4.12-7 Cumulative Impact on Noise Receptors	Potentially significant	Implement MM 4.12-1 and MM 4.12-2, as described above.	Less than significant	All Tiers

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
Population and Housing				
Impact 4.13-1 Induce Substantial Population Growth in an Area, Either Directly or Indirectly	Less than significant	No mitigation measures are required.	Less than significant	All Tiers
Impact 4.13-2 Displace Substantial Numbers of Existing Housing, Necessitating the Construction of Replacement Housing Elsewhere	No Impact	No mitigation measures are required.	Less than significant	All Tiers
Impact 4.13-3 Displace Substantial Numbers of People, Necessitating the Construction of Replacement Housing Elsewhere	No impact	No mitigation measures are required.	Less than significant	All Tiers
Impact 4.13-4 Cumulative Impact on Population and Housing	Less than significant	No mitigation measures are required.	Less than significant	All Tiers
Public Services				
Impact 4.14-1 Result in Substantial Adverse Physical Impacts Associated with the Provision of New or Physically Altered Governmental Facilities, Need for New or Physically Altered Governmental Facilities, the Construction of which could Cause Significant Environmental Impacts, in Order to Maintain Acceptable Service Ratios, Response Times, or Other Performance Objectives for Any of the Public Services, which Include: Fire Protection, Police Protection, Schools, Parks, and Other Public Facilities	Potentially significant	**MM 4.14-1** Applicant shall contribute to funding the acquisition of a Combination Walk-in/Non-Walk-in Industrial Firefighting vehicle capable of responding with a minimum of five firefighters with the tools and equipment necessary for industrial firefighting and rescue. Each Applicant shall pay $150 per well on each Oil and Gas Conformity Review permit until the total cost of the vehicle purchase is reached, not to exceed $850,000, to be paid through mitigation fees on Oil and Gas Conformity Review permits. Subsequent Applicants shall not be subject to this mitigation measure. **MM 4.14-2** Applicant shall provide funding in the amount of $425 per Oil and Gas Conformity Review permit issued for the Sheriff's Rural Crime Unit. Funding shall be used for one Sergeant, two Senior Deputies (investigators), three Deputies, One Support Technician (clerical), and helicopter usage, based on the amount of funding provided by this permit mitigation fee. The fee shall be in addition to any general funds received by the Sheriff's Department. The Sheriff's department shall annually report on the expenditure of funds for the Rural Crimes Unit, including incident reports and response times. If other sources of funding for the Rural Crimes Unit are secured, then the mitigation fee amount shall be adjusted to pay only the gap between actual costs and funding provided from other sources. The first 100 permits issued in a calendar year to certified small producers under the Small Producers Program included in the Project shall not pay this mitigation fee based on their very low proportionate use of the Rural Crimes Unit (100 permits are estimated to generally be less than 5% of the permits issued annually).	Less than significant	All Tiers
Impact 4.14-2 Contribute to Cumulative Public Service Impacts	Potentially significant	Implement MM 4.14-1 and MM 4.14-2, as described above.	Less than significant	All Tiers

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
Recreation				
Impact 4.15-1 Increase the Use of Existing Neighborhood and Regional Parks or Other Recreational Facilities Such That Substantial Physical Deterioration Would Occur or Be Accelerated	Less than significant	No mitigation measures required.	Less than significant	All Tiers
Impact 4.15-2 Include Recreational Facilities or Require Construction or Expansion of Recreational Facilities That Might Have an Adverse Physical Effect on the Environment	Less than significant	No mitigation measures required.	Less than significant	All Tiers
Impact 4.15-3 Cumulative Impact on Recreational Facilities	Less than significant	No mitigation measures required.	Less than significant	All Tiers

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
Transportation and Traffic				
Impact 4.16-1 Conflict with an Applicable Plan, Ordinance, or Policy Establishing Measures of Effectiveness for the Performance of the Circulation System, Including, but Not Limited to, Intersections, Streets, Highways and Freeways, Pedestrian and Bicycle Paths, and Mass Transit	Potentially significant	**MM 4.16-1** The Applicant shall pay a road maintenance mitigation fee of $1,500 per permit for new wells to pay for roadway maintenance and related improvements to address wear and tear on roads caused by oil and gas industry traffic. The Kern County Public Works Department shall annually report on the expenditure of funds from the Oil and Gas Roadway Maintenance Fee. Expenditures from the fund shall be as determined by the Roads Commissioner, using as a reference the list of roadways identified in the Environmental Impact Report as being used for traffic by the oil and gas industry. If Kern County secures funding from a sales tax dedicated to transportation funding, then the amount of the traffic mitigation fee shall be re-evaluated at the time the County becomes a self-help county. The first 100 permits issued in a calendar year to certified small producers under the Small Producers Program included in the Project shall not pay this mitigation fee based on their very low proportionate roadway use (100 permits are estimated to generally be less than 5% of the permits issued annually). **MM 4.16-2** Applicants who are using an arterial or collector, or Caltrans route, for access to a construction site, shall consult with the Kern County Public Works Department to determine if a Construction Traffic Control Plan is required based on the timing and volume of larger vehicle rigs and the volume of traffic to address public safety and congestion management. If a Plan is required, the Applicant shall prepare and submit a Construction Traffic Control Plan to the Kern County Public Works Department and to the California Department of Transportation (District 9 office) for approval. The Construction Traffic Control Plan must be prepared in accordance with both the California Department of Transportation Manual on Uniform Traffic Control Devices and Work Area Traffic Control Handbook and shall include, but not be limited to, the following issues: a. Timing of deliveries of heavy equipment and building materials. b. Placing temporary signing, lighting, and traffic control devices as necessary to indicate the presence of heavy vehicles and construction traffic. c. Determining the need for construction work hours and arrival/departure times outside peak traffic periods. d. Ensuring access for emergency vehicles to the Project site. e. Any temporary closure of travel lanes or disruptions to street segments and intersections during well development. f. Maintaining access to adjacent property.	Less than significant after mitigation	All Tiers
Impact 4.16-2 Conflict with an Applicable Congestion Management Program, Including, but Not Limited to Level of Service Standards And Travel Demand Measures, or Other Standards Established by the County Congestion Management Agency for Designated Roads or Highways -Metropolitan Bakersfield General Plan Level of Service “C” -Kern County General Plan Level of Service “D”	Less than significant	Implement MM 4.16-2, as described above.	Less than significant after mitigation	All Tiers

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
-Caltrans Endeavors to Maintain a Target Level of Service at the Transition between Level of Service “C” and Level of Service “D”				
Impact 4.16-3 Result in a Change in Air Traffic Patterns, including Either an Increase in Traffic Levels or a Change in Location that Results in Substantial Safety Risks	Potentially significant	Implement airport-related mitigation measures, as described in Section 4.8, Hazards and Hazardous Materials.	Less than significant after mitigation	All Tiers
Impact 4.16-4 Substantially Increase Hazards due to a Design Feature (e.g., Sharp Curves or Dangerous Intersections) or Incompatible Uses	Potentially significant	Implement MM 4.16-2, as described above.	Less than significant after mitigation	All Tiers
Impact 4.16-5 Result in Inadequate Emergency Access	Potentially significant	Implement MM 4.16-2, as described above.	Less than significant after mitigation	All Tiers
Impact 4.16-6 Conflict with Adopted Policies, Plans, or Programs regarding Public Transit, Bicycle, or Pedestrian Facilities, or Otherwise Decrease the Performance or Safety of Such Facilities	Potentially significant	Implement MM 4.16-2, as described above.	Less than significant after mitigation	All Tiers
4.16-7 Cumulative Impacts on Transportation and Traffic	Potentially significant	Implementation of MM 4.16-1 and MM 4.16-2, as described above.	Less than significant after mitigation	All Tiers
Utilities and Service Systems				
Impact 4.17-1 Exceed Wastewater Treatment Requirements of the Applicable Regional Water Quality Control Board	Less than significant	Implement stormwater mitigation measures, as described in Section 4.9, Hydrology and Water Quality.	Less than significant	All Tiers
Impact 4.17-2 Require or Result in the Construction of New Water or Wastewater Treatment Facilities or	Potentially significant	**MM 4.17-1** Prior to the issuance of building permits for an operations and maintenance building, the method of sewage disposal shall be as required and approved by the Kern County Public Health Services Department. Compliance with this requirement will necessitate that the Project proponent obtain the necessary approvals for the design of the septic system from the Kern County Department of Public Works. The septic	Less than significant	All Tiers

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
Expansion of Existing Facilities, the Construction of which could cause Significant Environmental Effects		system disposal field shall be located a minimum of 100 feet from a classified stream or 25 feet from a non-classified stream and shall not be located where it would impact State wetlands or special-status plant species.		
Impact 4.17-3 Require or Result in the Construction of New Stormwater Drainage Facilities or Expansion of Existing Facilities, the Construction of which could cause Significant Environmental Effects	Less than significant	Implement stormwater mitigation measures, as described in Section 4.9, Hydrology and Water Quality.	Less than significant	All Tiers
Impact 4.17-4 Not Have Sufficient Water Supplies Available to Serve the Project from Existing Entitlements and Resources, or New or Expanded Entitlements Would Be Needed	Potentially significant	**MM 4.17-2** Applicant shall increase the re-use of produced water, and reduce its use of municipal and industrial-quality ground or surface water use to the extent feasible. By the end of 2016, the Applicants shall work with the County to review water use data submitted to Division of Oil Gas and Geothermal Resources under Senate Bill 1281 and identify the five biggest oil industry users of municipal and industrial water by volume. The five biggest oil industry users of municipal and industrial water shall work together to develop and implement a plan identifying new measures to reduce municipal and industrial water use by 2020. The plan shall address the following activities, as appropriate: steam generation; drilling and completions (including hydraulic fracturing); dust control; compaction activities related to construction; and landscaping. Through the KernFLOWS initiative or other efforts (e.g., Groundwater Sustainability Agency), the five biggest oil industry users of municipal-and-industrial water shall also work with local agricultural producers and water districts to identify new opportunities to increase the use of produced water for agricultural irrigation and other activities, as appropriate. Any produced water treated and used for agricultural irrigation or other activities shall be tested and monitored to assure compliance with applicable standards for such agricultural irrigation or other uses. **MM 4.17-3** In the County's required participation for the formulation of a Groundwater Sustainability Agency, the Applicant shall work with the County to integrate into the Groundwater Sustainability Plan for the Tulare Lake-Kern Basin, best practices from the oil and gas industry to encourage the re-use of produced water from oil and gas activities, and (with appropriate treatment) to produce new water supplies for other uses such as agricultural irrigation and groundwater recharge. The produced water re-use goal is 30,000 acre-feet per year, which would offset more than the current use of imported water and groundwater from non-oil bearing zones by the oil and gas industry. **MM 4.17-4** The Applicant shall work with the County on the Groundwater Sustainability Plan to increase Applicant use of reclaimed water and reduce the Applicant's use of municipal-and-industrial quality imported surface water or groundwater. The Applicant will provide copies of water use reports produced under SB 1281 to the Groundwater Management Agency, which will then integrate this information into the Groundwater Sustainability Plan required under the Sustainable Groundwater Management Act.	Significant and unavoidable	All Tiers
Impact 4.17-5 Result in a Determination by the Wastewater Treatment Provider that Serves or May Serve the Project that it has Adequate Capacity to Serve the Project's Projected Demand in Addition to the Provider's Existing Commitments	Less than significant	Implement MM 4.17-1, as described above.	Less than significant	All Tiers
Impact 4.17-6	Potentially significant	Implement MM 4.17-2 and MM 4.17-3, as described above, and the following:	Less than significant	All Tiers

Table 12-1: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
Be Served by a Landfill with Insufficient Permitted Capacity to Accommodate the Project's Solid Waste Disposal Needs		**MM 4.17-5** During construction activities for Project facilities, the Applicant shall not store construction waste onsite for longer than the duration of the construction activity, or transport any waste to any unpermitted facilities. The Applicant shall also reduce construction waste transported to landfills by recycling solid waste construction materials, such as taking materials to recycling and reuse locations listed in the brochure on recycling construction and demolition materials available on the Kern County Waste Management Department website.		
Impact 4.17-7 Fail to Comply with Federal, State, and Local Solid Waste Statutes and Regulations	Potentially significant	Implement MM 4.17-5, as described above.	Less than significant	All Tiers
Impact 4.17-8 Cumulative Impacts on Utilities and Service Systems	Potentially significant	Implement MM 4.17-1 through MM 4.17-5, as described above.	Significant and unavoidable	All Tiers

12.2 Text of Revisions to the EIR Described in Chapter 7

12.2.1 Introduction

This Section 12.2, *Text of Revisions to the EIR Described in Chapter 7*, consolidates clarifications, amplifications, and insignificant modifications to the DEIR Volumes 1 and 2. Specifically, this Section 12.2 consolidates DEIR text revisions proposed by certain comments on the DEIR and accepted by the County in multiple responses to such comments set forth throughout *Chapter 7, Responses to Comments* (Volume 3 of this EIR).

For ease of reference, all DEIR revisions described in Chapter 7 have been consolidated in this Section 12.2 and are shown below in underline and ~~strikethrough~~ text. Underlined text represents text additions to the DEIR, and strikethrough text represents text deletions from the DEIR.

12.2.2 Revisions

Page 1-2 of the DEIR, Section 1.2, *is revised as follows, as described in response 0004-013 of section 7.2:*

> The Project is to amend Chapter 19.98 and related chapters of the Kern County Zoning Ordinance. The Project also includes a potential future oil and gas development scenario with oil and gas activities that are expected to be undertaken pursuant to the amendment to the Zoning Ordinance. The Draft EIR, once certified, will be used to satisfy the CEQA requirements for the following discretionary approvals:
>
> 1. Amendment of Kern County Zoning Ordinance Chapter 19.98 and related chapters for consistency with amended Chapter 19.98;
> 2. California Division of Oil, Gas & Geothermal Resources permitting of oil and gas activities, including well stimulation, in the Project Area;
> 3. San Joaquin Valley Air Pollution Control District permitting for oil and gas-related equipment/facilities, including, for example, boilers, steam generators, process heaters, flares, tanks, and portable equipment;
> 4. Central Valley Regional Water Quality Control Board Waste Discharge Requirements (WDRs) and Clean Water Act section 401 Water Quality Certifications and WDR waivers;
> 5. California Department of Fish and Wildlife incidental take permits and Lake or Streambed Alteration Agreements;

Page 1-4 of the DEIR, Section 1.4.1, *first full paragraph on page, is revised as follows, as described in response 0003-014 in section 7.2:*

The Kern County General Plan describes the San Joaquin Valley region as "the southern San Joaquin Valley below an elevation of 1,000 feet mean sea level (MSL)" within Kern County. The San Joaquin Valley portion is characterized by relatively low rainfall, averaging less than 10 inches per year. Average temperatures are relatively high, and total evaporation exceeds total precipitation. Summers are relatively cloudless, hot, and dry. Winter is generally mild, but an occasional freeze does occur and may cause substantial agricultural damage. Average length of the growing season is 265 days. The San Joaquin Valley region is within the southern end of the San Joaquin Valley Air Basin (SJVAB) managed by the San Joaquin Valley Air Pollution Control District (SJVAPCD). This district encompasses Fresno, Kings, Madera, Merced, San Joaquin, Stanislaus, and Tulare counties, as well as the San Joaquin Valley portion of Kern County. Further, the San Joaquin Valley region is within the Tulare Lake Groundwater Basin, which includes the Kern River Hydrographic Unit and the Poso Hydrographic Unit. These are subject to Central Valley Regional Water Quality Control Board (CVRWQCB) oversight.

Pages 1-29 through 1-68 of the DEIR, Section 1.9, *is revised as shown in section 7.1.4.*

Attachment A to Chapter 1 of the DEIR *is revised as described in section 7.1.3.*

Pages 2-28 and 2-29, Section 2.7 *of the DEIR is revised as follows, as described in responses 0003-011 and 0005-005 of section 7.2.2:*

State Agencies

- California Air Resources Board (CARB);
- California Department of Conservation Division of Oil, Gas, & Geothermal Resources (DOGGR);
- California Department of Fish and Wildlife (CDFW);
- California Department of Public Health ~~(DTSC)~~;
- California Department of Toxic Substance Control (DTSC);
- California Energy Commission (CEC);
- California Highway Patrol (CHP);
- California Public Utilities Commission (CPUC);
- California Native American Heritage Commission (NAHC);
- California Office of Historic Preservation;
- California State Lands Commission (CSLC);
- Governor's Office of Planning and Research (OPR);
- Regional Water Quality Control Board, Central Valley District (CVRWQCB); and
- State Water Resources Control Board (SWRCB).

Page 2-29, Section 2.7 *of the DEIR is revised as follows, as described in response 0014-004 in section 7.2.3:*

Local Agencies

- San Joaquin Air Pollution Control District (SJAPCD);
- Kern Council of Governments (COG);
- Kern County Waste Management Department (KCWMD);
- Kern County Public Works Department~~Kern County Engineering, Surveying, and Permit Services Department~~;
- Kern County Fire Department (KCFD);
- Kern County Planning and Community Development Department (KCPCDD);
- Kern County Public Health Services Department, Environmental Health Division;
- Kern County Roads Department;
- Kern County Planning Commission; and
- Kern County Board of Supervisors.

Pages 3-2 through 3-3, Section 3.1 of the DEIR, beginning at the final bulleted paragraph on Page 3-2, is revised as follows, as described in response to comment 0003-011 of section 7.2.2:

- The Central Valley Region of the Regional Water Quality Control Board (CVRWQCB) oversees permitting for discharges of wastewater and stormwater, as well as water basin planning and regulatory programs to attain and maintain compliance with applicable water quality standards and objectives. The CVRWQCB is responsible for permitting discharge of produced water to percolation and evaporation ponds, drilling sumps and wastewater disposal sumps, through issuance of waste discharge requirements (WDRs), or other forms of discharge authorization such as Clean Water Act Section 401 water quality certification and WDR waivers. In addition, the CVRWQCB also oversees the cleanup of petroleum-related spills and releases, as well as spills and releases of other chemicals. This EIR provides project-level CEQA coverage for future oil and gas WDRs or other water quality authorizations, and basin plan amendments for oil and gas activities in Kern County, including discharges of stormwater, produced water, and well stimulation fluids, and wastewater treatment, storage, and disposal activities. This EIR does not provide project-level CEQA coverage for specific remediation activities requiring CVRWQCB approval (e.g., either offsite removal, onsite treatment, or onsite capping and management) for accidental spills or releases of petroleum or hazardous substances from oil and gas activities.

Pages 3-5 through 3-6, Section 3.2.1 of the DEIR, beginning at the final paragraph of Page 3-5, is revised as follows, as described in response to comment 0003-011 of section 7.2.2:

The Kern County General Plan (KCGP) describes the San Joaquin Valley region as "the southern San Joaquin Valley below an elevation of 1,000 feet mean sea level (MSL)" within Kern County.

The San Joaquin Valley portion is characterized by low rainfall, averaging less than 10 inches per year. Average temperatures are relatively high, and total evaporation exceeds total precipitation. Summers are generally cloudless, hot, and dry. Winter is generally mild, but an occasional freeze does occur and may cause substantial agricultural damage. The average length of the growing season is 265 days. The San Joaquin Valley region is within the southern end of the San Joaquin Valley Air Basin (SJVAB) managed by the SJVAPCD. This district encompasses Fresno, Kings, Madera, Merced, San Joaquin, Stanislaus, and Tulare counties, as well as the San Joaquin Valley portion of Kern County. Further, the San Joaquin Valley region is within the Tulare Lake Groundwater Basin, which includes the Kern River Hydrographic Unit and the Poso Hydrographic Unit. These are subject to CVRWQCB oversight.

Page 3-15, Section 3.2.5 of the DEIR, is revised as follows, as described in response to comment 0014-004 of section 7.2.3:

Compliance with federal, state, and County rules (19.98.050.O) – All required federal, state, and County rules and regulations shall be complied with at all times, including, but not limited to, the rules and regulations of the following agencies:

1. California Division of Oil and Gas
2. Kern County Fire Department
3. Kern County Health Department
4. Regional Water Quality Control Board
5. Air Pollution Control District
6. Kern County Public Works Department~~Kern County Engineering and Survey Services Department~~

Page 3-60, Section 3.5.3 of the DEIR, first paragraph, is revised as follows, as described in response to comment 0003-011 of Section 7.2.2:

These are regulated under WDRs issued by the CVRWQCB. The ponds must be maintained in good condition and in accordance with the conditions and monitoring program established in the WDR. The ponds may require periodic renovation to restore their percolation capabilities, by dredging out the ponds bottoms and restoring the original grade of the ponds.

Page 3-64, Section 3.5.3 of the DEIR, the paragraph with the heading "Vegetation Control," is revised as follows, as described in response to comment 0004-14 of section 7.2.2:

Vegetation along roadsides and critical facilities such as tank settings and compressor stations is controlled as needed through the use of mowing, grading, weed-whacking, and spot treatments of herbicides. If vegetation removal would occur in potential habitat for special-status species, approval~~ed~~ by USFWS and CDFW may be required. This activity typically occurs in previously disturbed sites. Application of herbicides to prevent re-growth of vegetation in and around facilities is limited and only certified applicators and licensed firms are used.

Page 3-68, Section 3.5.3 of the DEIR, the second full paragraph, is revised as follows, as described in response to comment 0003-11 of section 7.2:

> Land farms accept biodegradable non-hazardous oily materials and are permitted by the CVRWQCB. Daily operations at permitted land farms in the Project Area include, but are not limited to, the discharge, spreading and discing of the biodegradable non-hazardous oily wastes. Other activities within or adjacent to the pre-disturbed land farms area might include: (1) vacuum truck washouts and sumps; (2) portable tank staging; and (3) drainage control grading maintenance.

Pages 3-68 through 3-69, Section 3.5.3 of the DEIR, final paragraph on Page 3-68, is revised as follows, as described in response to comment 0003-011 of section 7.2:

> Pipelines, tanks, and vessels are hydrostatically tested to meet regulatory pressure requirements. To conduct a hydrostatic test, a section of a pipeline is filled with fresh water, and the pressure is increased to determine whether there are any leaks. If pressure is lost during the test, then the pipeline is repaired before being put back into service. The hydrostatic test water can be stored in tanks, released in sumps, or collected for transport to existing wastewater disposal facilities. Fluid disposal complies with the requirements of the CVRWQCB.

Pages 3-72 through 3-73, Section 3.5.5 of the DEIR, bulleted paragraph 1 beginning at the bottom of page 3-72, is revised as follows, as described in responses to comments 0003-011 and 0014-004 of section 7.2:

1. All applicable federal, state, and County rules and regulations shall be complied with at all times, including, but not limited to, the rules and regulations of the following agencies:
   - California Division of Oil and Gas and Geothermal Resources;
   - Kern County Fire Department;
   - Kern County Health Department;
   - USFWS;
   - CDFW;
   - DTSC;
   - CVRWQCB;
   - SJVAPCD; and
   - Kern County Public Works Department~~Kern County Engineering, Survey and Permitting Services Department~~.

Page 3-73, Section 3.5.5 of the DEIR, final bulleted paragraph, is revised as follows, as described in response to comment 0004-020 of section 7.2:

2. If take of covered endangered or threatened species has the potential to occur, the appropriate USFWS and CDFW Endangered Species Act permits be acquired and compliance provisions shall be followed.

Page 3-74, Section 3.5.5 of the DEIR, bulleted text #9, is revised as follows, as described in response to comment 0004-025 of section 7.2:

9. The Applicant/Operator shall consult with the CDFW as necessary to determine if a Section 1602~~0~~ Lake or Streambed Alteration Agreement will be required for Project implementation.

Page 3-75, Section 3.5.5 of the DEIR, top of the page, is revised as follows, as described in response to comment 0004-026 of section 7.2:

1. Avoid streams, wetlands, and drainages, where possible. Locate access roads to minimize stream crossings and to minimize impacts where crossings cannot be avoided. Obtains from CDFW a Lake or Streambed Alteration Agreement prior to any work in a state jurisdictional waterway, unless CDFW determines that a Lake of Streambed Alteration Agreement is not necessary, and informs the applicant of such determination in writing, or otherwise fails to issue such agreement within mandated time lines.

Page 4.1-40, Section 4.1.4 of the DEIR, is revised as follows, as described in section 7.1.4:

MM 4.1-1 The Applicant shall use existing roads ~~whenever possible. If use of~~to access oil production areas, or shall construct new roads (or extend existing roads~~ is not feasible, construction of new roads should be routed~~) to minimize the amount of disturbance without impeding existing surface use.

Page 4.1-41, Section 4.1.4 of the DEIR, is revised as follows, as described in section 7.1.4 and in responses to comments 0044-262, 0050-06 and 0061-013 in section 7.2:

MM 4.1-4 Except where located within agricultural land, new ~~O~~oil or gas tanks located within 200 feet of any sensitive receptor shall be partially screened from public view by shrubs, trees or solid screen fencing. Similarly, new pump sites (including multiple well pump sites) within 500 feet of any dwelling must be surrounded by a fence, at least 6 feet in height, constructed of dark-colored chain-link with wood or metal slates, dark green or brown fabric material, or other more visually restrictive fencing material. The height of all new pumping units shall not exceed 80 feet, and shall be painted in accordance with the Kern County Zoning Ordinance.

Page 4.1-50, Section 4.1.4 of the DEIR, is revised as follows, as described in section 7.1.4 and in response to comment 0050-006 in section 7.2:

MM 4.1.6 Permanent nighttime lighting that will be installed for ~~facilities~~ new facility operations will only be lighting required for safety or security. During operations when the lighting is in use, lighting for safety and security will be

shielded and oriented downward, bare bulbs will be fully screened from view from sensitive viewing receptors such as residences, and on-demand lighting and/or timers will be used to minimize visual impacts of lighting. In doing so, the Applicant shall comply with the standards in the amended Chapter 19.81 – Outdoor Lighting "Dark Sky Ordinance."

Page 4.2-19 of the DEIR, Section 4.2.4, *is revised as follows, as described in Section 7.1.4, and in Response to Comment 0057-025 of Section 7.2:*

MM 4.2-1 For ~~future~~ new oil and gas exploration and extraction activities that are: 1) on land designated Prime, Farmland of Statewide Importance or Unique Farmland; and 2) that have been actively farmed 5 years or more out of the last 10 years, agricultural land mitigation is required at a ratio of 1:1. The 1:1 ratio is applied to actual ground disturbance area for oil and gas activities (inclusive of temporary construction and permanent operational impact areas), but excludes n4on-farmed existing areas such as roads, and tank and maintenance areas, and lands for which agricultural mitigation has previously been provided at a 1:1 ratio. Prior to ground disturbing activity, the Applicant shall submit to the County written evidence of completion of one or more of the following measures to achieve this 1:1 mitigation ratio:

a. Funding and/or purchasing agricultural conservation easements or similar instrument acceptable to the County (to be managed and maintained by an appropriate entity).

b. Purchasing of credits for conservation of agricultural lands from an established agricultural farmland mitigation bank or an equivalent agricultural farmland preservation program managed by the County.

c. Restoring agricultural lands to productive use through the removal of legacy oil and gas production equipment, including well abandonment and removal of surface equipment.

d. Participating in any agricultural land mitigation program adopted by Kern County that provides equal or more effective mitigation than the measures listed above.

Mitigation lands shall meet the definition of Prime Farmland, Farmland of Statewide Importance, and/or Unique Farmland, and be of similar or higher agricultural quality as the lands, as established by the California Department of Conservation. Completion of the selected measure or, with the Kern County Planning and Community Development Director's approval, a combination of measures, are to occur on qualifying land in Kern County. If qualifying lands cannot be found in Kern County, upon written application to the County, the mitigation lands may be located within the San Joaquin Valley (San Joaquin, Stanislaus, Merced, Fresno, Madera, Kings, Tulare, or Kern County) or outside the San Joaquin Valley with written evidence that the same or equivalent crops can be produced on the mitigation land. Mitigation consisting of removal of legacy

equipment within active agricultural fields shall not require recordation of an agricultural conservation easement or conservation easement. Available mitigation funding shall be prioritized for acquisition of large blocks of agricultural land for preservation, and removal of legacy equipment, to minimize and mitigate fragmentation and edge impacts.

Page 4.2-22 of the DEIR, Section 4.2.4, *is revised as follows, as described in Section 7.1.4, and in Response to Comment 0050-004 et al. of Section 7.2:*

MM 4.2-2 To protect crops and structures adjacent to oil and gas activities on active agricultural lands, each Applicant/operator shall comply with the following mitigation measures set forth in other chapters of this Environmental Impact Report:

a. Surface water runoff and drainage on the well pads shall be mitigated as described in mitigation measures for Hydrology and Water Quality.

b. A Spill Prevention Countermeasure and Contingency Plan or Division of Oil Gas and Geothermal Resources Assembly Bill 1960 spill plan, as applicable, shall be prepared for the site and oil and chemical spills treated in accordance with the Division of Oil Gas and Geothermal Resources Senate Bill 4 Regulations for the site to protect adjacent farmland, as described in Mitigation Measure for Hazards.

c. Speed limits for oil and gas trucks shall be posted on unpaved roads to reduce dust generation; in the absence of signage, speed limits shall be limited to 25 miles per hour (or an alternate, more stringent dust suppression standard as adopted by the San Joaquin Valley Air Pollution Control District), and Applicants shall attest that employees have been trained in the appropriate speed limits.

d. Unpaved roads shall be watered or otherwise treated for dust suppression and control as described in Mitigation Measure for Air Quality, unless speeds are restricted to 15 mph.

e. Vehicle tracking control shall be installed where unpaved roads intersect with public paved roads, to prevent tracking of mud, dust, and weed seeds off site, unless speeds are restricted to 15 mph. This shall consist of a 50-foot length of a 3 inch-thick layer of gravel one inch or larger in diameter (or an alternate, more stringent dust suppression technique as approved by the San Joaquin Valley Air Pollution Control District).

f. Stormwater control shall be required at construction sites during well drilling, reworking, and/or decommissioning as described in mitigation measures for Hydrology.

g. Hazardous materials shall be stored within secondary containment as described in mitigation measures for Hazards.

h. Overhead electrical or communication lines shall be shown on the Site Plan, and shall be aligned to the greatest extent feasible with existing access roads and the minimum distance between the access road and the well installation or other oil and gas facility, parallel to tree or row crops, described further in mitigation measures for Public Utilities. If the use of existing roads is not feasible, lines shall be routed to minimize surface disturbance and minimize the impacts to surface activity

i. Underground pipelines serving the Project shall be shown on the Site Plan with locations marked and recorded with USAA, and periodically inspected and maintained as described in mitigation measures for Hazards.

Page 4.3-68 through 4.3-69 of the DEIR, Section 4.3.4, *are revised as follows, as described in Section 7.1.4:*

MM 4.3-2 The Applicant shall develop and implement a Fugitive Dust Control Plan in compliance with San Joaquin Valley Air Pollution Control District fugitive dust suppression regulations to further reduce emissions, during construction, of particulate matter that is 10 microns or less and 2.5 microns or less in diameter. The Fugitive Dust Control Plan shall include:

a. Name(s), address(es), and phone number(s) of person(s) responsible for the preparation, submission, and implementation of the plan.

b. Description and location of operation(s).

c. Listing of all fugitive dust emissions sources included in the operation.

d. The following dust control measures shall be implemented:

1. All onsite unpaved roads shall be effectively stabilized using water or chemical soil stabilizers that can be determined to be as efficient as or more efficient for fugitive dust control than California Air Resources Board approved soil stabilizers, and that shall not increase any other environmental impacts including loss of vegetation.

2. All material excavated or graded will be sufficiently watered to prevent excessive dust. Watering will occur as needed with complete coverage of disturbed areas. The excavated soil piles will be watered as needed to limit dust emissions to less than 20% opacity or covered with temporary coverings.

3. Construction activities that occur on unpaved surfaces will be discontinued during windy conditions when winds exceed 25 miles per hour and those activities cause visible dust plumes. Construction activities may continue if dust suppression measures are used to minimize visible dust plumes.

4. Track-out debris onto public paved roads shall not extend 50 feet or more from an active operation and track-out shall be removed or isolated such as

behind a locked gate at the conclusion of each workday, except on agricultural fields where speeds are limited to 15 mph.

5. All hauling materials should be moist while being loaded into dump trucks.
6. All haul trucks hauling soil, sand, and other loose materials on public roads shall be covered (e.g., with tarps or other enclosures that would reduce fugitive dust emissions).
7. Soil loads should be kept below 6 inches or the freeboard of the truck.
8. Drop heights should be minimized when loaders dump soil into trucks.
9. Gate seals should be tight on dump trucks.
10. Traffic speeds on unpaved roads shall be limited to 25 miles per hour.
11. All grading activities shall be suspended when visible dust emissions exceed 20%.
12. Other fugitive dust control measures as necessary to comply with San Joaquin Valley Air Pollution Control District Rules and Regulations.
13. Disturbed areas should be minimized.
14. Disturbed areas should be re-vegetated as soon as possible after disturbance if area is no longer needed for oil and gas activities.

Page 4.3-76 of the DEIR, Section 4.3.4, *is revised to replace Table 4.3-11b in its entirety with the new Table 4.3-11b set forth below, as described in Section 7.2.1, Global Response Air-2:*

Table-4.3-11b: Forecast of Additional Equipment Needed for 2035 Project Build-Out

	Kern County Baseline			Count			
Permitted Equipment	Total Capacity	Units	Required Acreage for New Systems	Kern County	Western Subarea	Central Subarea	Eastern Subarea
Boilers	111	MMBtu/Hr	0.05	5	3	0	2
Cogeneration	1,860	MW	19.96	49	18	0	31
Process Heaters	607	MMBtu/Hr	0.22	39	23	15	1
IC Engines	217,314	BHP*Hr	1.06	93	77	0	16
Steam Generators	34,655	MMBtu/Hr	27.33	238	157	0	81
Production Tanks	2,720,948	BBL Capacity	21.10	368	155	24	189
TEOR Systems	27,723	System	0.26	70	18	0	52
VOCDD (Flare)	41,414	MMBtu/Hr	1.49	36	14	11	11

Page 4.3-77 of the DEIR, Section 4.3.4, *is revised to replace Table 4.3-12 in its entirety with the new Table 4.3-12 set forth below, as described in Section 7.2.1, Global Response Air-2:*

Table 4.3-12: Kern County Facility Construction Emissions during a Single Year (Tons/Year)

Equipment to be Built	Average Number of Equipment to be Built Annually	ROG	NOx	CO	SO2	PM10	PM2.5
Boiler	0.3	0.5	4.4	2.6	0.0	0.3	0.3
Process Heater	2.0	4.0	31.7	18.8	0.0	2.3	2.1
Internal Combustion Engine (RICE)	4.9	8.0	75.2	44.7	0.1	5.5	4.9
Steam Generators	12.5	22.5	193.3	116.2	0.2	14.3	12.6
Production Tanks	19.3	37.4	298.8	178.5	0.2	21.9	19.5
VOCDD (Flare)	1.9	3.7	29.5	17.6	0.0	2.2	1.9
TOTAL		**76**	**633**	**378**	**0.5**	**46.5**	**41.2**
SJVAPCD Construction Emissions Threshold		10	10	100	27	15	15

Pages 4.3-77 through 4.3-78 of the DEIR, Section 4.3.4, *are revised to replace Table 4.3-13 in its entirety with the new Table 4.3-13 set forth below, as described in Section 7.2.1, Global Response Air-2:*

Table 4.3-13: Total Kern County Facility Construction Emissions over the Project Period (2015 – 2035) (Tons/Year)

Equipment to be Built	Number of Equipment to be Built	ROG	NOx	CO	SO_2	PM_{10}	$PM_{2.5}$
Boiler	6	9.7	92.00	54.1	0.1	6.6	6
Process Heater	43	83.1	665.70	394.40	0.5	48.2	43.2
Internal Combustion Engine (RICE)	102	168.80	1,579.30	937.70	1.3	114.80	102.70
Steam Generators	262	471.60	4,060.30	2,439.30	3.4	300.40	265.10
Production Tanks	405	784.70	6,273.90	3,748.20	5.2	460.10	408.70
VOCDD (Flare)	40	77.5	619.60	370.30	0.5	45.5	40.4
TOTAL		**1,595.40**	**13,290.80**	**7,944.00**	**11.00**	**975.60**	**866.10**

Page 4.3-79 of the DEIR, Section 4.3.4, *is revised to replace Table 4.3-14 in its entirety with the new Table 4.3-14 set forth below, as described in Section 7.2.1, Global Response Air-2:*

Table 4.3-14: Total Estimated Emissions from Construction of Permit Exempt Equipment and Small Production Settings

	Emissions (Tons/Year)					
	ROG	**NO_x**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
TOTAL	**4**	**32**	**19**	**0.03**	**2**	**2**
SJVAPCD Construction Emissions Threshold	10	10	100	27	15	15

Page 4.3-80 of the DEIR, Section 4.3.4, *is revised to replace Table 4.3-15 in its entirety with the new Table 4.3-15 set forth below, as described in Section 7.2.1, Global Response Air-2:*

Table 4.3-15: Estimated Annual Emissions Associated with Drilling of Wells in 2012 and 2035

Year	Subarea	Well Count	Criteria Emissions (tons per year)						Emission Factors (lbs. per year per well)					
			NO_X	VOC	CO	SO_X	PM_{10}	$PM_{2.5}$	NO_X	VOC	CO	SO_X	PM_{10}	$PM_{2.5}$
2012	Western	2,549	6,345.35	1,067.97	4,369.40	6.25	381.34	248.92	4,978.70	837.95	3,428.32	4.90	299.21	195.31
	Central	47	468.30	155.63	357.55	0.43	24.54	16.01	19,927.84	6,622.71	15,215.01	18.43	1,044.06	681.29
	Eastern	796	1,563.05	103.48	1,133.80	1.45	99.63	63.65	3,927.25	260.00	2,848.73	3.63	250.33	159.93
	TOTALS	3,392	8,376.70	1,327.09	5,860.75	8.13	505.51	328.58	4,939.09	782.48	3,455.63	4.79	298.06	193.74
2035	Western	2,623	1892.96	893.33	4230.87	6.39	187.63	67.74	1443.35	681.15	3225.98	4.87	143.06	51.65
	Central	140	688.08	430.83	1049.56	1.28	39.20	16.54	9829.75	6154.74	14993.78	18.31	559.97	236.25
	Eastern	1,320	656.10	86.90	1827.40	2.38	78.43	25.70	994.09	131.66	2768.78	3.61	118.83	38.94
	TOTALS	4,083	3237.14	1411.06	7107.84	10.05	305.25	109.98	1585.67	691.19	3481.67	4.92	149.52	53.87

Page 4.3-82 of the DEIR, Section 4.3.4, *last full paragraph on page, is revised as follows, as described in Response to Comment 0001-004 of Section 7.2:*

In summary, emissions from the new facility and well construction at a Project level would result in emissions levels that would exceed SJVAPCD Construction Emissions Threshold. Only the operational~~new facility construction~~ emissions from equipment subject to SJVAPCD Rule 2201 (New Source Review) that exceeds the SJVPACD's offset thresholds would be required to be offset because it would be a condition of the SJVAPCD air permit. Although ~~offset all~~ permitted stationary source operational ~~construction~~ emissions that are above ~~baseline~~SJVAPCD's thresholds of significance would be offset through SJVAPCD Rule 2201 (New Source Review), other equipment and activities are exempt. Specifically, SJVAPCD rules do not require offsets for construction and operational emissions from equipment subject to portable equipment registrations or permit-exempt equipment registrations. In addition, new facility construction and well construction emissions have no offset requirements. Since these emissions exceed the SJVAPCD Construction Emissions Threshold and would not be offset, they would result in a cumulatively considerable net increase of criteria pollutants for which the Project region is nonattainment and therefore the construction impacts would be significant.

Page 4.3-84 of the DEIR, Section 4.3.4, *is revised to replace Table 4.3-20 in its entirety with the new Table 4.3-20 set forth below, as described in Section 7.2.1, Global Response Air-2:*

Table 4.3-20: Estimated Change in Operational Emissions For Stationary Source Equipment

Change in Equip. Emissions	Change in Capacity	Capacity Units	Kern County Change in Emissions from Stationary Source Equipment					
			NO_x TPY	VOC TPY	CO TPY	SO_x TPY	PM_{10} TPY	$PM_{2.5}$ TPY
Boiler	45	MMBtu/Hr	0.73	0.08	0.13	0.00	0.16	0.16
Cogeneration	1,583	MW	535.37	130.84	747.84	50.38	148.10	148.10
Fugitive Emissions	26,101	Wells	0.00	128.61	0.00	0.00	2.76	2.76
Process Heater	211	MMBtu/Hr	2.71	0.49	0.82	0.11	0.78	0.78
IC Engine (RICE)	77,956	BHP*Hr	114.10	32.91	480.16	0.08	1.13	1.13
Steam Generators	15,489	MMBtu/Hr	234.79	108.68	97.72	94.51	271.87	271.87
Production Tanks	1,604,898	BBL Capacity	0.74	327.60	4.05	1.33	0.08	0.08
TEOR Wells	19,061	TEOR Wells	9.31	830.38	7.02	13.69	0.93	0.93
VOCDD (Flare)	14,273	MMBtu/Hr	34.32	37.09	126.02	6.46	6.67	6.67
Total Emissions Title-v O&G Sources			932.08	1596.68	1463.76	166.57	432.48	432.48
Total Emissions Small O&G Sources (+10%)			93.21	159.67	146.38	16.66	43.25	43.25
Total Emissions All O&G Sources (TPY)			1025.29	1756.34	1610.14	183.23	475.73	475.73
SJVAPCD Operational Emissions Threshold (TPY)			10	10	100	27	15	15
Total Emissions All O&G Sources (TPD)			2.80	4.80	4.40	0.50	1.30	1.30

Pages 4.3-93 through 4.3-94 of the DEIR, Section 4.3.4, *are revised to replace Table 4.3-27 in its entirety with the new Table 4.3-27 set forth below, as described in Section 7.2.1, Global Response Air-2:*

Table 4.3-27: Total Estimated Emissions from the Project in Tons per Year

Year	NO_X	ROG	CO	SO_2	PM_{10}	$PM_{2.5}$
2012	14289	9957	11809	406	2041	1408
2015	13677	8588	11820	416	1791	1328
2016	13259	8797	11968	425	1814	1333
2017	12926	8991	12135	434	1842	1343
2018	11988	9147	12303	443	1839	1322
2019	11188	9298	12474	451	1841	1310
2020	10317	9473	12653	460	1853	1306
2021	10038	9650	12834	469	1879	1317
2022	9048	9796	13022	478	1879	1305
2023	8804	9964	13184	487	1904	1314
2024	8601	10143	13349	496	1931	1328
2025	8496	10300	13513	505	1962	1343
2026	7812	10442	13689	514	1968	1338
2027	7769	10605	13852	522	2007	1356
2028	7691	10772	14014	531	2041	1374
2029	7694	10915	14166	540	2076	1396
2030	7783	11071	14329	549	2118	1422
2031	7872	11224	14491	558	2159	1447
2032	7957	11384	14647	567	2197	1472
2033	8050	11522	14816	576	2238	1498
2034	8131	11667	14964	584	2276	1523
2035	8215	11809	15121	593	2316	1548

Page 4.3-95 of the DEIR, Section 4.3.4, *is revised to replace Table 4.3-28 in its entirety with the new Table 4.3-28 set forth below, as described in Section 7.2.1, Global Response Air-2:*

Table 4.3-28: Total Estimated Emissions from the Project Non-Permitted Equipment and Activities in Tons per Year

Year	NOx	ROG	CO	SO_2	PM_{10}	$PM_{2.5}$
2012	11794	5614	8555	12	1182	555
2015	11133	4162	8489	12	910	452
2016	10666	4287	8561	13	910	434
2017	10284	4398	8651	13	915	421

Table 4.3-28: Total Estimated Emissions from the Project Non-Permitted Equipment and Activities in Tons per Year

Year	NOx	ROG	CO	SO_2	PM_{10}	$PM_{2.5}$
2018	9297	4470	8742	13	889	378
2019	8448	4537	8837	13	869	343
2020	7529	4628	8939	13	858	316
2021	7201	4722	9043	13	861	305
2022	6162	4784	9155	14	839	270
2023	5869	4869	9240	14	841	257
2024	5618	4964	9328	14	846	248
2025	5463	5038	9416	14	854	240
2026	4731	5096	9515	14	837	212
2027	4639	5175	9601	14	854	208
2028	4512	5259	9687	14	866	204
2029	4467	5318	9762	15	878	203
2030	4507	5390	9848	15	897	206
2031	4547	5460	9934	15	915	208
2032	4583	5536	10013	15	931	211
2033	4628	5591	10105	15	949	214
2034	4659	5651	10177	15	964	216
2035	4695	5710	10257	15	982	219

Pages 4.3-96 through 4.3-97 of the DEIR, Section 4.3.4, *are revised to replace Table 4.3-29 in its entirety with the new Table 4.3-29 set forth below, as described in Section 7.2.1, Global Response Air-2:*

Table 4.3-29: Total Estimated Incremental Emissions from the Project Non-Permitted Equipment and Activities in Tons per Year

Year	NOx	ROG	CO	SO_2	PM_{10}	$PM_{2.5}$
2015	11064	1919	8320	12	731	430
2016	10607	2055	8415	12	735	413
2017	10231	2189	8524	12	742	401
2018	9251	2277	8630	12	716	358
2019	8407	2360	8736	13	698	323
2020	7495	2460	8844	13	689	296
2021	7176	2574	8953	13	696	286
2022	6143	2650	9069	13	676	251
2023	5852	2749	9159	13	679	238

Table 4.3-29: Total Estimated Incremental Emissions from the Project Non-Permitted Equipment and Activities in Tons per Year

Year	NOx	ROG	CO	SO_2	PM_{10}	$PM_{2.5}$
2024	5601	2852	9250	13	687	229
2025	5447	2944	9340	14	696	221
2026	4714	3014	9441	14	682	194
2027	4623	3106	9529	14	695	189
2028	4496	3196	9616	14	708	185
2029	4451	3273	9693	14	722	184
2030	4491	3356	9780	14	741	187
2031	4531	3437	9866	14	760	190
2032	4568	3519	9946	15	777	193
2033	4612	3590	10039	15	796	196
2034	4644	3660	10112	15	813	198
2035	4680	3729	10192	15	831	201

Page 4.3-97 of the DEIR, Section 4.3.4, *is revised to replace Table 4.3-30 in its entirety with the new Table 4.3-30 set forth below, as described in Section 7.2.1, Global Response Air-2:*

Table 4.3-30: Total Estimated Incremental Emissions from the Project Non-Permitted Equipment and Activities per New Well in Tons per Year

Year	New Projected Wells	NOx	ROG	CO	SO_2	PM_{10}	$PM_{2.5}$
2015	3966	2.79	0.48	2.10	0.003	0.18	0.11
2016	3970	2.67	0.52	2.12	0.003	0.19	0.10
2017	3976	2.57	0.55	2.14	0.003	0.19	0.10
2018	3982	2.32	0.57	2.17	0.003	0.18	0.09
2019	3988	2.11	0.59	2.19	0.003	0.18	0.08
2020	3994	1.88	0.62	2.21	0.003	0.17	0.07
2021	4000	1.79	0.64	2.24	0.003	0.17	0.07
2022	4006	1.53	0.66	2.26	0.003	0.17	0.06
2023	4012	1.46	0.69	2.28	0.003	0.17	0.06
2024	4018	1.39	0.71	2.30	0.003	0.17	0.06
2025	4024	1.35	0.73	2.32	0.003	0.17	0.05
2026	4030	1.17	0.75	2.34	0.003	0.17	0.05
2027	4036	1.15	0.77	2.36	0.003	0.17	0.05
2028	4042	1.11	0.79	2.38	0.003	0.18	0.05
2029	4048	1.10	0.81	2.39	0.003	0.18	0.05

2030	4054	1.11	0.83	2.41	0.004	0.18	0.05
2031	4060	1.12	0.85	2.43	0.004	0.19	0.05
2032	4066	1.12	0.87	2.45	0.004	0.19	0.05
2033	4071	1.13	0.88	2.47	0.004	0.20	0.05
2034	4077	1.14	0.90	2.48	0.004	0.20	0.05
2035	4083	1.15	0.91	2.50	0.004	0.20	0.05
Average Annual Incremental Emissions per Well		**1.58**	**0.72**	**2.31**	**0.003**	**0.18**	**0.06**

Page 4.3-98 of the DEIR, Section 4.3.4, *is revised to replace Table 4.3-31 in its entirety with the new Table 4.3-31 set forth below, as described in Section 7.2.1, Global Response Air-2:*

Table 4.3-31: Total Estimated Incremental Emissions from the Project Non-Permitted Equipment and Activities per New Well in Tons per Year

Year	New authorized wells	NOx	ROG	CO	SO_2	PM_{10}	$PM_{2.5}$
2015	3,647	10174	1765	7650	11	672	396
2016	3,647	9744	1888	7730	11	675	380
2017	3,647	9385	2007	7818	11	681	368
2018	3,647	8473	2085	7904	11	656	328
2019	3,647	7688	2158	7989	12	638	295
2020	3,647	6844	2246	8076	12	629	270
2021	3,647	6543	2347	8163	12	634	260
2022	3,647	5592	2412	8256	12	615	229
2023	3,647	5320	2499	8325	12	618	216
2024	3,647	5084	2588	8396	12	623	208
2025	3,647	4936	2668	8465	12	631	201
2026	3,647	4266	2728	8544	12	617	175
2027	3,647	4178	2807	8610	13	628	171
2028	3,647	4057	2884	8676	13	638	167
2029	3,647	4010	2949	8732	13	650	166
2030	3,647	4040	3019	8798	13	667	168
2031	3,647	4070	3087	8862	13	683	171
2032	3,647	4097	3156	8921	13	697	173
2033	3,647	4132	3216	8993	13	713	175
2034	3,647	4154	3274	9045	13	727	178
2035	3,647	4180	3331	9104	13	742	180
Average Project Annual Incremental Emissions		**5760**	**2625**	**8431**	**12**	**659**	**232**

Page 4.3-100 of the DEIR, Section 4.3.4, *first full paragraph on page, is revised as follows, as described in Response to Comment 0001-010 et al. of Section 7.2:*

The mandated emission reductions will be achieved by a menu of options that range from paying a calculated mitigation fee for use in doing emission reduction projects through a grant-type program, to applicant~~'~~s proposing and achieving their own emission reduction projects through a SJVAPCD-approved process in lieu ~~changing equipment on existing operations or proposing projects for implementation instead~~ of paying the fee. The first pathway, the mitigation fee, will involve paying a calculated mitigation fee to the County on each permit for implementation of the OG-ERA. The mitigation fee shall be placed in a fund, established by the Board of Supervisors, with an additional administrative fee collected for the SJVAPCD. Expenditure of the mitigation funds shall be for certified air quality reduction projects managed ~~jointly~~ by ~~Kern County and~~ the SJVAPCD, in close consultation with Kern County. Final determination of air quality reductions achieved shall be under the determination of the SJVAPCD.~~; however,~~ Furthermore, selection of specific projects shall be determined by the SJVAPCD in consultation with Kern County ~~in consultation with District~~. Projects of equal cost-effectiveness to off-set criteria pollutants under the OG-ERA would be given priority for Kern County valley locations ~~and be implemented on a yearly basis~~. ~~Multi-year phased projects could also be funded.~~ The fee will be based and tiered to address different configurations of equipment that could be used, as well as other variables such as the depth of the well at standard depths of 3,000, 5,000, and 10,000 feet. The fee shall be adjusted as of January 1 of each year, and shall be tied to the prior year's average cost effectiveness, as published in the SJVAPCD's "Annual Report on the District's Indirect Source Review Program" (i.e., the cost of $6974 per ton used in this EIR shall be updated annually, accordingly). An example of such changes to equipment could be adding diesel particle filters or upgrading to cleaner engines that are not currently required. Under a Small Producers Assistance Program being developed by the County for permit implementation, phased payment of the fee will also be offered.

Pages 4.3-101 through 4.3-102 of the DEIR, Section 4.3.4, *are revised to replace Table 4.3-32 in its entirety with the new Table 4.3-32 set forth below, as described in Section 7.2.1, Global Response Air-2:*

Table 4.3-32: Total Estimated per Well Emissions for Preliminary Considerations in OG-ERA

Year	New Projected Wells	NO_x	ROG	PM_{10}	Per well Projected Emissions	Maximum Authorized Wells	Projected Emissions Scaled to 3,647 Wells
2015	3966	2.79	0.48	0.18	3.46	3647	12611
2016	3970	2.67	0.52	0.19	3.37	3647	12307
2017	3976	2.57	0.55	0.19	3.31	3647	12073
2018	3982	2.32	0.57	0.18	3.07	3647	11214
2019	3988	2.11	0.59	0.18	2.87	3647	10485

Table 4.3-32: Total Estimated per Well Emissions for Preliminary Considerations in OG-ERA

Year	New Projected Wells	NO_x	ROG	PM_{10}	Per well Projected Emissions	Maximum Authorized Wells	Projected Emissions Scaled to 3,647 Wells
2020	3994	1.88	0.62	0.17	2.66	3647	9719
2021	4000	1.79	0.64	0.17	2.61	3647	9524
2022	4006	1.53	0.66	0.17	2.36	3647	8620
2023	4012	1.46	0.69	0.17	2.31	3647	8436
2024	4018	1.39	0.71	0.17	2.27	3647	8296
2025	4024	1.35	0.73	0.17	2.26	3647	8235
2026	4030	1.17	0.75	0.17	2.09	3647	7611
2027	4036	1.15	0.77	0.17	2.09	3647	7613
2028	4042	1.11	0.79	0.18	2.08	3647	7579
2029	4048	1.10	0.81	0.18	2.09	3647	7609
2030	4054	1.11	0.83	0.18	2.12	3647	7726
2031	4060	1.12	0.85	0.19	2.15	3647	7841
2032	4066	1.12	0.87	0.19	2.18	3647	7951
2033	4071	1.13	0.88	0.20	2.21	3647	8061
2034	4077	1.14	0.90	0.20	2.24	3647	8155
2035	4083	1.15	0.91	0.20	2.26	3647	8253
Average		**1.58**	**0.72**	**0.18**	**2.48**		**9044**

Pages 4.3-110 through 4.3-112 of the DEIR, Section 4.3.4, *are revised as follows, as described in Section 7.1.4, and in Response to Comment 0001-010 et al. of Section 7.2 (note that this mitigation measure has been further revised as shown in sections 12.1.3 and 12.4):*

MM 4.3-5 Construction:

The Site Plan Application shall include a Site Vicinity Figure showing the location of any sensitive receptor(s) within 3,000 feet of the construction site (potential impact area) for the proposed new well or other ancillary facility or equipment (excluding pipelines).

a. If there are no sensitive receptors within this potential impact area, then no construction mitigation measures shall be required.

b. If there are sensitive receptors within the potential impact area, then additional information must be provided showing the setback from the closest edge of the well pad to the property line of the nearest sensitive receptor. The minimum distances shall be as follows:

Well Depth (Feet)	Minimum Setback Distance from Well Site to Adjacent Property Line of an Existing Sensitive Receptor (Feet)
Western Subarea	
10,000	367
5,000	116
2,000	NA
Central Subarea	
10,000	367
5,000	116
2,000	NA
Eastern Subarea	
10,000	296
5,000	NA
2,000	NA

c. If the above setbacks cannot be met, and for existing wells, the Applicant shall provide a site-specific or other risk assessment to the San Joaquin Valley Air Pollution Control District, which may include implementation of implement one or more of ~~shall implement~~ the following risk minimization measures, or other such measures that are demonstrated by the Applicant to the San Joaquin Valley Air Pollution Control District, to achieve a level of risk less than the threshold risk level, and shall provide confirmation from the San Joaquin Valley Air Pollution Control District that the activity that is the subject of the application will not exceed the risk threshold:

1. Placement of engines in the potential impact area away from the sensitive receptors.
2. Utilize directional drilling to locate rig away further from the sensitive receptor(s).
3. Use of late-model engines, low-emission diesel products, alternative cleaner fuels (e.g., natural gas or liquefied petroleum gas), engine retrofit technology, add-on devices such as diesel particulate filters or oxidation catalyst, and/or other options as such become available to reduce emissions from off-road and other equipment.
4. Utilize electricity line power if available.
5. Shutdown all equipment when not in use, and otherwise minimize engine idling by limiting idling to 15 minutes.
6. Use of automatic rigs.

7. Assist and pay to relocate residents to an ~~area hotel~~ temporary lodging during well construction, drilling, and completion activities, if such residents voluntarily agree to such relocation.

Pages 4.3-121 through 4.3-122 of the DEIR, Section 4.3.4, *are revised as follows, as described in Section 7.1.4, and in Response to Comment 0001-005 et al. of Section 7.2:*

MM 4.3-8 For ~~Project facilities or equipment that are~~criteria emissions, not required to be offset ~~emissions~~ under a District rule as described in MM 4.3-1, and for Project vehicle and other mobile source emissions, the County will enter into an emission reduction agreement with the San Joaquin Valley Air Pollution Control District, pursuant to which the Applicant shall pay fees to fully offset Project emissions of oxides of nitrogen, reactive organic gases, and particulate matter of 10 microns or less in diameter (including as applicable mitigating for reactive organic gases by additive reductions of particulate matter of 10 microns or less in diameter) (collectively, "designated criteria emissions") to avoid any net increase in these pollutants. The air quality mitigation fee shall be paid to the County as part of the Site Plan review and approval process, and shall be used to reduce designated criteria emissions to fully offset Project emissions that are not otherwise required to be fully offset by District permit rules and regulations.

As an alternative to paying the fee, an Applicant may reduce emissions for one or more designated criteria emissions through actual reductions in air emissions from other Applicant sources, as submitted to the County and validated by the District. This Project offset requirement alternative shall be enforced by the County and verified by San Joaquin Valley Air Pollution Control District, and must be approved in advance by the San Joaquin Valley Air Pollution Control District. If a voluntary emission reduction agreement is not executed by the County and San Joaquin Valley Air Pollution Control District, then each Applicant must mitigate for the full amount of designated criteria pollutants as verified by the San Joaquin Valley Air Pollution Control District, with evidence of such District-verified offsets presented as part of the Site Plan Conformity Review application documentation.

Examples of feasible air emission reduction activities that may be funded by air quality fees paid by Applicant or proposed and implemented by the Applicant under the emission reduction agreement include, but are not limited to, the following:

a. Replacing or retrofitting diesel-powered stationary equipment such as motors on generators, pumps and wells with electric or other lower-emission engines that are not subject to Title V reductions.

b. Replacing or retrofitting diesel-powered school, transit, municipal and other community mobile sources such as buses, car fleets, and maintenance equipment, with electric or other lower-emission engines.

c. Reducing emissions from public infrastructure sources such as water and wastewater treatment and conveyance facilities, and reducing water-related emissions through water conservation and reclamation.

d. Funding lower-emission equipment and processes for local businesses, schools, non-profit and religious institutions, hospitals, city and county facilities.

Pages 4.4-11 through 4.4-12 of the DEIR, Section 4.4.2, *is revised as follows, as described in Responses to Comments 0004-28 through 0004-43 of Section 7.2:*

~~Several permanently preserved conservation lands are located within the Project Area. Some preserves were created under the terms of existing HCPs for oil and gas activities, and others are managed by federal, state, local, or private organizations. Preserved lands within the Project Area include the following:~~

~~The Coles Levee Ecosystem Preserve HCP conserved 6,059 acres under an existing oil and gas HCP to the east of the Elk Hills Oil Field (EHOF) and south of the Kern Water Bank in the Western Subarea;~~

~~The Kern Water Bank HCP, which will permanently preserve 10,349 acres for habitat purposes in the Central and Western Subareas;~~

~~The Freeport McMoRan Oil & Gas HCP conserved 1,519 acres under an oil and gas HCP in the Western Subarea;~~

~~The EHOF conservation area, which consists of 8,028 gross acres and 7,878 net acres of undisturbed habitat, of which a minimum of 7,075 acres undisturbed acres must be preserved under a Section 7 permit and agreements with state and federal agencies in conjunction with the sale of former Naval Petroleum Reserve properties in the Western Subarea;~~

~~The LINN Energy Enos conservation lands, 400 acres of conservation lands held in the Poso Creek oilfield within the Eastern Subarea;~~

~~The LINN Energy Lokern Buena Vista Valley conservation lands are 2,895 acres of conservation lands held in the Western Subarea;~~

~~The Lokern Buena Vista BLM Areas of Critical Environmental Concern located to the north of the Elk Hills and east of the Cymric McKittrick oilfields in the Western Subarea;~~

~~The Kern National Wildlife Refuge, 11,249 acres located 18 miles west of the city of Delano in the Central Subarea;~~

~~The Hart Park Ecological Reserve, 500 acres managed by the CDFW in three separate parcels located north of Bakersfield in the Eastern Subarea;~~

~~The Buttonwillow Ecological Reserve, 1,391 acres managed by CDFW northeast of Buttonwillow in the Central Subarea;~~

~~The Lokern Ecological Reserve, 4,000 acres in the Semitropic Ridge area and the 295 acres Sand Ridge Wildflower preserve east of Bakersfield managed by the Center for Natural Land Management in the Central and Eastern Subareas;~~

~~The Semitropic Ecological Reserve, 4,800 acres adjacent to 3,100 acres of land that is managed by the Center for Natural Lands Management and the Kern National Wildlife Refuge in the Central Subarea;~~

~~The Tule Elk State Reserve, 987 acres adjacent to the Kern Water Bank and the EHOF managed by the California Department of Parks and Recreation in the Western Subarea (California Department of Parks and Recreation 2013);~~

~~A portion of the 97,000 acre Windwolves (Wildlands Conservancy) Preserve located along the southwest border of the Project Area; and~~

~~A portion of the conservation land subject to the Tejon Ranch Conservation and Land Use Agreement along the south-central and southeast borders of the Project Area.~~

Several wildlife refuges and protected habitat areas are located within the Project Area. These include lands subject to permanent conservation easements and agreements, lands owned or managed by government entities, and lands managed by private organizations. Some preserves were created under the terms of existing HCPs for oil and gas activities. These lands include the following:

Lands subject to conservation easements:

- The Coles Levee Ecosystem Preserve HCP conserved 6,059 acres under a previous oil and gas HCP to the east of the Elk Hills Oil Field (EHOF) and south of the Kern Water Bank in the Western Subarea. CDFW holds a conservation easement that has been recorded upon the Coles Levee Ecosystem Preserve.
- The Kern Water Bank HCP, which will permanently preserve up to 3,267 acres through conservation easements for habitat purposes in the Central and Western Subareas. Currently the Kern Water Bank has recorded 1,321 acres of habitat to conservation easements.
- The EHOF conservation area, which consists of 8,028 gross acres and 7,878 net acres of undisturbed habitat, of which a minimum of 7,075 acres undisturbed acres must be preserved under a Section 7 permit and agreements with state and federal agencies in conjunction with the sale of former Naval Petroleum Reserve properties in the Western Subarea. In addition, a conservation easement, held by CDFW, has been recorded on over 6,314 of these acres. A conservation easement over the remaining acreage is pending.
- A portion of the conservation land subject to the Tejon Ranch Conservation and Land Use Agreement along the south-central and southeast borders of the Project Area.

Lands owned by government agencies:

- The Lokern-Buena Vista BLM Areas of Critical Environmental Concern, owned and managed by BLM, located to the north of the Elk Hills and east of the Cymric-McKittrick oilfields in the Western Subarea.
- The Kern National Wildlife Refuge, 11,249 acres owned and managed by the USFWS located 18 miles west of the city of Delano in the Central Subarea.
- The Bakersfield Cactus Ecological Reserve consists of 780 acres, owned and managed by the CDFW, in five disjunct areas located north and east of Bakersfield in the Eastern Subarea.
- The Buttonwillow Ecological Reserve, 1,391 acres managed by CDFW northeast of Buttonwillow in the Central Subarea.
- The Lokern Ecological Reserve, consisting of 3,965 acres in the Lokern Natural Area owned and managed by CDFW.
- A portion of the Lokern Natural Area owned and managed by BLM.
- The Semitropic Ecological Reserve consists of approximately 14,900 acres which is owned and managed by CDFW in the Central Subarea.
- The Tule Elk State Reserve, 987 acres adjacent to the Kern Water Bank and the EHOF managed by the California Department of Parks and Recreation in the Western Subarea (California Department of Parks and Recreation 2013).
- A portion of the Allensworth Ecological Reserve (South Unit), 1,110 acres (in Kern County) owned and managed by CDFW is located along the northern border of the Central Subarea.
- Other preserved undesignated lands owned and managed by CDFW throughout the Project Area.

Lands owned and managed by private entities:

- The Lokern Natural Area is a large undeveloped area consisting of approximately 50,600 acres of land with different property owners. Property owners and managers that hold the largest tracts of land include Chevron, as well as the Bureau of Land Management and CDFW.
- Adjacent to the Semitropic Ecological Reserve are neighboring parcels collectively totaling approximately 3,100 acres in the Semitropic Ridge area owned and managed by the Center for Natural Lands Management.
- A portion of the 97,000 acre Windwolves Preserve owned and managed by the Wildlands Conservancy is located along the southwest border of the Project Area. Also, the northern most area of the preserve which is in the Central Valley supports valley floor species
- The Sand Ridge Wildflower preserve, 295 acres owned and managed by the Center for Natural Lands Management east of Bakersfield in the Eastern Subarea.
- The LINN Energy Enos conservation lands, 400 acres of conservation lands held in the Poso Creek oilfield within the Eastern Subarea; Linn Energy intends to transfer these lands to CDFW in the future.

- The LINN Energy Lokern-Buena Vista Valley conservation lands are 2,895 acres of conservation lands held in the Western Subarea. Linn Energy is currently in the process of proposing these lands for deeded transfer to CDFW.
- The Freeport MacMoRan Oil and Gas HCP sets aside 1,519 acres as compensation lands. Freeport MacMoRan is in the process of granting conservation easements to be held by CDFW over 1,280 acres, and intends to grant conservation easements for the remaining acreage in the future.

Pages 4.4-36 through 4.4-37 of the DEIR, Section 4.4.2, *is revised as follows, as described in Responses to Comments 0004-46 through 0004-48 of Section 7.2:*

Special-status plant species are defined herein as those that are listed as candidate, threatened and/or endangered by the USFWS; ~~or~~ candidate, rare, threatened and/or endangered by the CDFW; designated as sensitive by BLM ~~SSC or locally significant by CDFW; fully protected under state law~~; or species that meet the definition of ~~rare or~~ endangered, rare or threatened under CEQA Sections 15380(b) and (d). The status and known distributions of special-status plant species in the Project Area were evaluated based on a review of available literature, and from federal and state databases, including the CNDDB. Data collected from previous conservation-related studies and projects within the Project Area were also reviewed. No critical habitat has been designated by the USFWS for any plant species in the Project Area. Data sources included:

Plant species listed as threatened or endangered under the federal Endangered Species Act (ESA) (Wildlife, 50 CFR § 17.11 and Errata; Plants, 50 CFR §17.12 and Errata, 2002).

Plant species that are candidates for listing under ESA (Wildlife and Plants, 50 CFR §17.3 Proposed and Final Rules, 1999).

SJV Recovery Plan (USFWS 1998).

Plant species listed as rare, threatened, or endangered under California Endangered Species Act (CESA) ~~(Wildlife, CCR Title 14, Section 670.5, 1971 as amended; Plants, CCR Title 14, Section 670.2, 1978 as amended)~~and the Native Plant Protection Act (NPPA).

CNPS's Inventory of Rare and Endangered Plants (CNPS 2014).

CNDDB (CDFW 2014, 2015a).

California Special Vascular Plants, Bryophytes, and Lichens List (CDFW 2015b).

Kern County VFHCP (Garcia and Associates 2010).

MBHCP and EIR (City of Bakersfield and County of Kern 1994).

University of California, Berkeley, The Jepson Online Interchange California Floristics, online herbarium resource (University of California, Berkeley 2014).

Draft Chevron LHCP.

Draft California Resources Corporation EHHCP.

Freeport McMoRan Oil & Gas HCP.

A list of all Category 1, Category 2, and Category 3 plants considered in the analysis is provided in Table 4.4-26.

Plant species considered sensitive by BLM.

Pages 4.4-38 through 4.4-48 of the DEIR, Section 4.4.2, *is revised to replace Table 4.4-26 in its entirety with the new Table 4.4-26 set forth below, as described in Response to Comment 0004-045 of Section 7.2:*

Table 4.4-26: Special Status Plant Species with Potential to Occur in the Project Area

Species	Status (Fed/State/CNPS)	Habitat	Potential to Occur in Project Area
Category 1 Plant Species			
Bakersfield cactus *(Opuntia treleasei)*	E/E/1B	Chenopod scrub, cismontane woodlands, and valley and foothill grasslands at elevations between 350 and 4,800 feet (CNPS 2014).	Yes, in all Tiers and in all Subareas.
California jewelflower *(Caulanthus californicus)*	E/E/1B.1	Chenopod scrub, pinyon and juniper woodlands, and grasslands at elevations from 200 to 3,300 feet (CNPS 2014).	Yes, in Tiers 2 and 4 of all Subareas.
Heartscale *(Atriplex cordulata var. cordulata)*	-/-/1B.2	Chenopod scrub, meadows and seeps, and grasslands on sandy/saline or alkaline soils at elevations to 1,900 feet.	Yes, in all Tiers and in all Subareas.
Kern County larkspur (Rose-flowered larkspur) *(Delphinium purpusii)*	-/-/1B.3	Rocky and carbonate soils in chaparral, cismontane woodland, and pinyon and juniper woodlands. The species usually occurs at elevations from 950 to 4,500 feet and is only known from east of the San Joaquin Valley.	Yes, in Tiers 2 and 3 of the Eastern Subarea.
Kern mallow *(Eremalche kernensis)*	E/-/1B.1	Chenopod scrub and grasslands at elevations from 200 to 4,300 feet (CNPS 2014).	Yes, in Tiers 1, 2, and 3 in all Subareas.
Lost Hills crownscale *(Atriplex coronata S. Watson var. vallicola)*	-/-/1B.2	Chenopod scrub, grassland habitat, and vernal pool habitats at elevations from 150 to 2,500 feet.	Yes, in Tiers 1, 2 and 4 of the Western and Central Subareas.

Table 4.4-26: Special Status Plant Species with Potential to Occur in the Project Area

Species	Status (Fed/State/CNPS)	Habitat	Potential to Occur in Project Area
Recurved larkspur *(Delphinium recurvatum)*	-/-/1B.2	Alkaline soils of chenopod scrub, cismontane woodlands, and grassland habitats at elevations to 2,600 feet. Fairly widespread throughout the San Joaquin Valley, Carrizo Plain, Mojave Desert, and Coast Ranges.	Yes, in Tiers 1, 2, and 4 in all Subareas.
San Joaquin adobe sunburst *(Pseudobahia peirsonii)*	T/E/1B.1	North- to northeast-facing small hills, or Mima mounds, associated with the upland portions of vernal pool habitats (USFWS 2004). All known wild occurrences are associated with Cibo clay, Porterville clay, Centerville clay, and Mt. Olive clay. Elevations ranging from 300 to 2,600 feet; all occurrences are from the Eastern Subarea and north and east of the Project Area.	Yes, in Tiers 2 of the Eastern Subarea.
San Joaquin woolly-threads *(Monolopia congdonii)*	E/-/1B.2	Chenopod scrub and valley and foothill grasslands at elevations from 150 to 2,700 feet (CNPS 2014).	Yes, in Tiers 1, 2 and 3 in all Subareas.
Category 2 Plant Species			
Alkali mariposa lily *(Calochortus striatus)*	-/-/1B.2	Chaparral, chenopod scrub, Mojave Desert scrub, and meadows and seeps in alkaline and mesic soils at elevations between 200 and 5,300 feet.	Yes, in Tier 2 of the Central and Western Subareas.
Bakersfield smallscale *(Atriplex tularensis)*	-/-/1A	Chenopod scrub habitats at elevations from 290 to 660 feet on alkaline soils and shores of dry lakes.	Yes, in Tiers 1, 2, 3, and 4 of all Subareas.
Calico monkeyflower *(Mimulus pictus)*	-/-/1B.2	Occurs in broad-leafed upland forests and cismontane woodlands at elevations from 1,400 to 4,100 feet in the western Sierra Nevada and Tehachapi Mountains.	Yes, in Tiers 2 and 4 of the Eastern Subarea.
California satintail *(Imperata brevifolia)*	-/-/2B.1	Mesic areas of chaparral, coastal scrub, Mojave Desert, meadow and seep, and riparian scrub habitats at elevations from 600 to 4,000 feet. Widespread but apparently uncommon with many herbarium specimens from historic collections with very little habitat information. Only one collection from Project Area; most likely to occur in riparian scrub.	Yes, in Tiers 1, 2, 3, and 4 of the Eastern Subarea.

Table 4.4-26: Special Status Plant Species with Potential to Occur in the Project Area

Species	Status (Fed/State/CNPS)	Habitat	Potential to Occur in Project Area
California tortula moss (California screw-moss) *(Tortula californica)*	-/-/1B.2	Chenopod scrub and valley and foothill grassland habitats on dry, sandy soils at elevations from 30 to 4,800 feet. One record from the vicinity of Bakersfield and all others in southern California.	Yes, in Tier 3 of the Eastern Subarea.
Comanche Point layia *(Layia leucopappa)*	-/-/1B.1	Chenopod scrub and valley and foothill grassland habitats at elevations from 300 to 1,200 feet; in Project Area, known from southeastern San Joaquin Valley and Tehachapi Mountains.	Yes, in Tier 2 of the Western and Eastern Subareas.
Coulter's goldfields *(Lasthenia glabrata ssp. coulteri)*	-/-/1B.1	Marshes and swamps, playas, and vernal pools at elevations from 0 to 3,700 feet. In the Project Area, may occur throughout the San Joaquin Valley and lower elevations of the Sierra Nevada and Tehachapi Mountains.	Yes, in Tier 2 of the Western Subarea.
Deltoid bract saltbush (Subtle orache) *(Atriplex subtilis)*	-/-/1B.2	Grasslands, often in the vicinity of vernal pools at elevations from 130 to 330 feet in alkaline soils. In the Project Area, lower elevation San Joaquin Valley intact alkali sink areas.	Yes, in Tiers 1, 2, 3, and 4 of the Central and Western Subareas.
Diamond-petaled California poppy *(Eschscholzia rhombipetala)*	-/-/1B.1	Grassland habitats in alkaline and clay soils at elevations from 30 to 3,300 feet. Most of the populations reported have been on hillsides, but community associations varied widely among the sites. In the region of the Project Area, only known from the Temblor Range and to the west in San Luis Obispo County.	Yes, in Tiers 1, 2, and 4 of the Western Subarea.
Erect-stem saltbush (Earlimart orache) *(Atriplex cordulata var. erecticaulis)*	-/-/1B.2	Low-lying, sparsely-vegetated grasslands and on mounds between vernal pools on saline or alkaline soils at elevations from 130 to 350 feet. In the Project Area, only known from a few occurrences in the far northern, central San Joaquin Valley. All other known populations are to the north of the Project Area.	Yes, in Tier 2 of the Central Subarea.
Hall's tarplant *(Deinandra halliana)*	-/-/1B.1	Chenopod scrub, cismontane woodland, and grassland habitats at elevations from 850 to 3,150 feet.	Yes, in Tiers 1 and 2 of the Western Subarea.

Table 4.4-26: Special Status Plant Species with Potential to Occur in the Project Area

Species	Status (Fed/State/CNPS)	Habitat	Potential to Occur in Project Area
Hispid bird's-beak *(Chloropyron molle ssp. hispidum)*	-/-/1B.1	Alkaline meadows and seeps, playas, and grassland habitats at elevations to 510 feet. Only known from a few populations in the southern portion of the Central Subarea and southeastern portion of the Eastern Subarea, the remainder of collections are from disjunct areas to the north of the Project Area.	Yes, in Tier 1 of the Central and Eastern Subarea.
Horn's milk-vetch *(Astragalus hornii var. hornii)*	-/-/1B.1	Meadows, seeps, and playas along lake margins on alkaline soils at elevations from 190 to 2,800 feet.	Yes, in Tier 2 of the Central Subarea.
Jared's pepper-grass *(Lepidium jaredii ssp. jaredii)*	-/-/1B.2	Valley and foothill grassland habitats at elevations from 1,000 to 3,300 feet. In the Project Area, only known from the far northwestern corner of the Western Subarea; also known from west of the Project Area.	Yes, in Tier 2 of the Western Subarea.
Kings gold *(Tropidocarpum californicum)*	-/-/1B.1	Known from a small number of populations in chenopod scrub at elevations of approximately 200 feet. Recently described with little known about ecological requirements.	Yes, in Tiers 1, 2, 3, and 4 of the Eastern and Western Subareas.
Lemmon's jewelflower *(Caulanthus lemmonii)*	-/-/1B.2	Pinyon and juniper woodlands and grassland habitats at elevations from 250 to 4,000 feet; only known from above the San Joaquin Valley floor in the Project Area and vicinity.	Yes, in Tier 2 of the Western Subarea.
Lesser saltscale *(Atriplex minuscula)*	-/-/1B.1	Chenopod scrub habitat, playas, and grasslands on alkaline, sandy soils, and often in association with slough systems and river floodplains. It is found only in microhabitats that are not inundated year-round. This species occurs at elevations to 650 feet.	Yes, in Tier 2 of the Central Subarea.
Mason's neststraw *(Stylocline masonii)*	-/-/1B.1	Chenopod scrub and pinyon and juniper woodlands in sandy soils at elevations from 300 to 4,000 feet. Although very few populations known from Project Area, species is known from a wide variety of habitat types in the region.	Yes, in Tiers 2 and 4 of the Western and Eastern Subareas
Munz's tidy-tips *(Layia munzii)*	-/-/1B.2	Chenopod scrub and valley and foothill grassland habitats at elevations from 150 to 2,100 feet in alkaline clay.	Yes, in Tier 2 of the Western and Central Subareas.

Table 4.4-26: Special Status Plant Species with Potential to Occur in the Project Area

Species	Status (Fed/State/CNPS)	Habitat	Potential to Occur in Project Area
Oil neststraw *(Stylocline citroleum)*	-/-/1B.1	Chenopod scrub, coastal scrub, and valley and foothill grassland habitats with clay or sandy soils. It is known to grow on land that has been developed for oil production (USFWS 1998). The oil nestraw is located at elevations from 190 to 1,000 feet.	Yes, in Tiers 1 and 2 of the Western Subarea.
Pale-yellow layia *(Layia heterotricha)*	-/-/1B.1	Cismontane woodlands, pinion and juniper woodlands, and valley and foothill grasslands on alkaline soils or clay. It grows at elevations from 850 to 5,000 feet.	Yes, in Tier 2 of the Western and Eastern Subareas.
Piute Mountains navarretia *(Navarretia setiloba)*	-/-/1B.1	Cismontane woodland, pinyon-juniper woodland, and valley and foothill grasslands in clay or gravelly loam soils between 800 and 7,000 feet in elevation (CNPS 2014).	Yes, in Tier 2 of the Eastern and Western Subareas.
Round-leaved filaree *(California macrophylla)*	-/-/1B.1	Cismontane woodland and grassland habitats in open areas at elevations to 4,000 feet in clay soils. Widespread through many habitat types in California; known from the middle elevations within the Project Area.	Yes, in Tier 2 of the Eastern and Western Subareas.
Shevock's golden aster *(Heterotheca shevockii)*	-/-/1B.3	Chaparral and cismontane woodlands in crevices and shallow sand at elevations from 750 to 3,000 feet. Only known from the vicinity of the Kern River and surrounding drainages east of Bakersfield.	Yes, in Tiers 1, 2, 3, and 4 of the Eastern Subarea.
Showy golden madia *(Madia radiata)*	-/-/1B.1	Cismontane woodlands and valley and foothill grasslands at elevations to 4,000 feet; known from the far northwestern portion of the Western Subarea; all other populations are west and north of Kern County.	Yes, in Tier 2 of the Western Subarea.
Slough thistle *(Cirsium crassicaule)*	-/-/1B.1	Chenopod scrub, in marshes and swamps, and riparian scrub at elevations to 350 feet in the San Joaquin Valley floor.	Yes, in Tier 1 and 2 of the Central and Western Subareas.
Spiny-sepaled button-celery *(Eryngium spinosepalum)*	-/-/1B.2	Valley and foothill grasslands within vernal pools and depressions at elevations from 260 to 900 feet. Known occurrences in the Project Area are in the north and northeastern portions of the Eastern Subarea, with one historic location from the northern Central Subarea.	Yes, in Tier 2 of the Eastern Subarea.

Table 4.4-26: Special Status Plant Species with Potential to Occur in the Project Area

Species	Status (Fed/State/CNPS)	Habitat	Potential to Occur in Project Area
Striped adobe-lily *(Fritillaria striata)*	-/T/1B.1	This species occurs at elevations from 440 to 3,750 feet in cismontane woodlands and grassland habitats, and appears to be restricted to some of the heavy clay (adobe) soils that are found along the eastern side of the San Joaquin Valley and lower foothills.	Yes, in Tier 2 of the Eastern Subarea.
Tejon poppy *(Eschscholzia lemmonii ssp. kernensis)*	-/-/1B.1	Chenopod scrub and grassland habitats on adobe clay soils between 528 and 2,000 feet in elevation (University of California, Berkeley 2013).	Yes, in Tiers 1 and 2 of the Western and Eastern Subareas.
Temblor buckwheat *(Eriogonum temblorense)*	-/-/1B.2	Valley and foothill grasslands at elevations from 950 to 3,300 feet on clay or sandstone. Only known from far western portion of Western Subarea in Temblor Range.	Yes, in Tier 1 of the Western Subarea.
Vasek's clarkia *(Clarkia tembloriensis ssp. Calientensis)*	-/-/1B.1	This species occurs in grassland habitat at elevations from 850 to 1,700 feet. Known from only three occurrences along Caliente Creek in the eastern portion of the East subarea.	Yes, in Tier 2 of the Eastern Subarea.
Category 3 Plant Species			
Adobe navarretia *(Navarretia nigelliformis ssp. nigelliformis)*	-/-/4.2	Vernal pools, clay depressions, and sometimes serpentine soil in valley and vernally mesic foothill grasslands. This species is limited to clay and adobe soils that occur between 300 and 3,300 feet in elevation within the Project Area.	Very low potential to occur in Project Area.
Adobe yampah *(Perideridia pringlei)*	-/-/4.3	Chaparral, cismontane woodland, coastal scrub, and pinyon and juniper woodland habitats on grassy slopes and serpentine outcrops at elevations from 950 to 5,900 feet.	Very low potential to occur in Project Area.
Brittlescale *(Atriplex depressa)*	-/-/1B.2	Chenopod scrub, meadows and seeps, playas, annual grasslands, and vernal pool habitats consisting of alkaline, clay soils at elevations from 3 to 1,050 feet.	Very unlikely to occur in Project Area.
California androsace *(Androsace elongata ssp. acuta)*	-/-/4.2	Dry grassy slopes between 500 to 4,000 feet in elevation (Baldwin et al. 2012).	Yes, there is a low potential for this species to occur in the Project Area. Fairly common outside of the Project Area.

Table 4.4-26: Special Status Plant Species with Potential to Occur in the Project Area

Species	Status (Fed/State/CNPS)	Habitat	Potential to Occur in Project Area
Chaparral ragwort *(Senecio aphanactis)*	-/-/2B.2	Chaparral, cismontane woodland, and coastal scrub habitats on alkaline soils at elevations of 49 to 2,625 feet.	Not expected
Cottony buckwheat *(Eriogonum gossypinum)*	-/-/4.2	Chenopod scrub and grassland habitats at elevations from 300 to 1,640 feet (CNPS 2014).	Yes, in Tiers 1 and 2 of the Western and Eastern Subareas.
Crownscale *(Atriplex coronata var. coronata)*	-/-/4.2	Chenopod scrub, grassland habitat, and vernal pool habitats at elevations from 150 to 2,500 feet.	Yes, in Tiers 1 and 2 of the Western and Central Subareas.
Cuyama gilia *(Gilia latiflora ssp. cuyamensis)*	-/-/4.3	Pinyon and juniper woodland habitats on sandy flats and lower river valleys at elevations from 1,950 to 6,600 feet (CNPS 2014; Baldwin et al. 2012).	Much more common outside of Project Area; very low potential for occurrence in an area of impact
Delicate bluecup *(Githopsis tenella)*	-/-/1B.3	Chaparral and cismontane woodland in mesic sandy loam soils at elevations from 3,600 to 6,300 feet.	Not expected
Douglas' fiddleneck *(Amsinckia douglasiana)*	-/-/4.2	Cismontane woodland and grassland habitats at elevations from 30 to 5,150 feet.	Relatively common outside of Project Area.
Ferris' goldfields *(Lasthenia ferrisiae)*	-/-/4.2	Occurs in vernal pool habitats on alkaline or clay soil at elevations from 30 to 2,100 feet.	Yes, in Tier 4 of the Western Subarea.
Forked fiddleneck *(Amsinckia furcata)*	-/-/4.2	Cismontane woodland and valley and foothill grassland habitats at elevations from 150 to 3,300 feet.	Relatively common outside of Project Area; very low potential for occurrence in an area of impact.
Gairdner's yampah *(Perideridia gairdneri ssp. gairdneri)*	-/-/4.2	Vernal pool habitats at elevations from to 2,000 feet.	Not expected
Golden goodmania *(Goodmania luteola)*	-/-/4.2	Mojavean desert scrub, meadows and seeps, playas, and valley and foothill grassland communities on alkaline or clay soils at elevations from to 7,250 feet.	Relatively common
Golden violet (*Viola purpurea* ssp. *aurea)*	-/-/2B.2	Sandy soils in Great Basin scrub and pinyon and juniper woodland communities at elevations from 3,280 to 8,200 feet.	Not expected

Table 4.4-26: Special Status Plant Species with Potential to Occur in the Project Area

Species	Status (Fed/State/CNPS)	Habitat	Potential to Occur in Project Area
Greenhorn fritillary *(Fritillaria brandegeei)*	-/-/1B.3	Lower montane coniferous forest in granitic sandy loam soils at elevations from 4,642 to 6,890 feet.	Not expected
Grey-leaved violet *(Viola pinetorum var. grisea)*	-/-/1B.3	Meadows and seeps, subalpine coniferous forests, and upper montane coniferous forests at elevations from 4,900 to 11,200 feet.	Not expected
Hoover's Woollystar (Hoover's Eriastrum)*(Eriastrum hooveri)*	DL/-/4.2	Hoover's eriastrum occurs in chenopod scrub, pinyon and juniper woodlands, and grassland habitats at elevations from 160 to 3,000 feet on both north- and south-facing slopes and on ridge tops.	Yes, in Tiers 1, 2, 3 and 4 of all subareas.
Indian Valley spineflower *(Aristocapsa insignis)*	-/-/1B.2	Cismontane woodland in sandy soils at elevations from 984 to 1,968 feet.	Not expected
Keck's checkerbloom *(Sidalcea keckii)*	E/-/1B.1	Cismontane woodland and grassland habitats and is found in serpentine and clay substrates at elevations between 245 and 2,130 feet.	Not expected
Kern Canyon clarkia *(Clarkia xantiana* ssp. *parviflora)*	-/-/4.2	Dry slopes in the Kern River drainage within the southern Sierra Nevada between 2,950 and 4,950 feet in elevation.	Not expected
La Panza mariposa lily *(Calochortus simulans)*	-/-/1B.3	Sandy granitic, and sometimes serpentinite, soils in chaparral, cismontane woodland, lower montane coniferous forest, and valley and foothill grasslands. It usually occurs at elevations from 1,200 to 3,600 feet (CNPS 2014).	Not expected
Large-flowered nemacladus *(Nemacladus secundiflorus var. secundiflorus)*	-/-/4.3	Chaparral and annual grassland in open dry gravelly areas at elevations from 650 to 6,550 feet.	Not expected
Madera leptosiphon *(Leptosiphon serrulatus)*	-/-/1B.2	Chaparral, cismontane woodlands, and lower montane coniferous forests at elevations from 900 to 4,300 feet.	Not expected, very small amount of potential habitat.
Marsh claytonia *(Claytonia palustris)*	-/-/4.3	Meadows and seeps, marshes and swamps, upper montane coniferous forest along springs and stream banks at elevations from 3,280 to 8,200 feet.	Not expected

Table 4.4-26: Special Status Plant Species with Potential to Occur in the Project Area

Species	Status (Fed/State/CNPS)	Habitat	Potential to Occur in Project Area
Mexican mosquito fern *(Azolla microphylla)*	-/-/4.2	Occurs in pools and slow water areas in marshes and swamps at elevations to 4,400 feet.	More common outside of Project Area; perennially wet portions of Kern River provide the only likely habitat.
Mojave Indian paintbrush *(Castilleja plagiotoma)*	-/-/4.3	Great Basin scrub, Joshua tree woodland, lower montane coniferous forest, and pinyon and juniper woodlands at elevations between 950 and 8,200 feet.	Relatively common outside of Project Area, low numbers in the Project Area.
Mt. Pinos larkspur *(Delphinium parryi* ssp. *purpureum)*	-/-/4.3	Dry chaparral, Mojavean desert scrub, and pinion and juniper woodlands at elevations from 1,800 to 7,000 feet.	Not expected, more common outside of Project Area.
Mt. Pinos onion *(Allium howellii* var. *clokeyi)*	-/-/1B.3	Open slopes in sagebrush scrub at elevations from 4,200 to 6,100 feet (University of California, Berkeley 2013).	Yes, in Tier 2 of the Western and Eastern Subareas.
Munz's iris *(Iris munzii)*	-/-/1B.3	Cismontane woodland at elevations from 1,000 to 2,650 feet.	Not expected
New York Mountains cryptantha *(Cryptantha tumulosa)*	-/-/4.3	Mojavean desert scrub and pinyon and juniper woodlands on gravelly, clay, granitic, or carbonate soils at elevations from 3,000 to 7,000 feet.	Not expected
Nine Mile Canyon phacelia (*Phacelia novenmillensis*)	-/-/1B.2	Dry disturbed banks, granitic or metamorphic soils of upper slopes on east-facing canyons at elevations from 5,100 to 7,000 feet.	Not expected
Onyx Peak bedstraw (*Galium angustifolium* ssp. *onycense*)	-/-/1B.3	Cismontane woodland and pinyon and juniper woodlands in rocky soils at elevations from 2,800 to 7,600 feet.	Yes, in Tier 2 of the Western Subarea.
Oval-leaved snapdragon *(Antirrhinum ovatum)*	-/-/4.2	Heavy adobe clay soils (e.g., clay or gypsum) and often in alkaline soils, on gentle open slopes at elevations from 650 to 3,300 feet.	Yes, in Tier 2 of the Western Subarea.
Paniculate tarplant *(Deinandra paniculata)*	-/-/4.2	Coastal scrub, grasslands, and vernal pool habitats in mesic and sometimes sandy substrates at elevations from 80 to 3,100 feet.	Not expected
Panoche pepper-grass *(Lepidium jaredii ssp. album)*	-/-/1B.2	Valley and foothill grassland habitats, along washes and alluvial fans, at elevations from 600 to 900 feet.	Not expected

Table 4.4-26: Special Status Plant Species with Potential to Occur in the Project Area

Species	Status (Fed/State/CNPS)	Habitat	Potential to Occur in Project Area
Potbellied spineflower *(Chorizanthe ventricosa)*	-/-/4.3	Cismontane woodland and annual grassland on serpentine outcrops at elevations from 200 to 4,100 feet.	Not expected
Salinas milk-vetch *(Astragalus macrodon)*	-/-/4.3	Chaparral, cismontane woodland, and grassland habitats on sandstone, shale or serpentine alluvium at elevations from 800 to 3,200 feet.	Yes, in Tier 2 of the Western Subarea.
San Jacinto Valley crownscale *(Atriplex coronata var. notatior)*	E/-/1B.1	Playas, annual grassland, and vernal pools on alkaline soils at elevations from 400 to 1,700 feet.	Not expected
San Joaquin bluecurls *(Trichostema ovatum)*	-/-/4.2	Chenopod scrub and valley and foothill grasslands at elevations from 200 to 1,100 feet.	Yes, in Tier 2 and 3 of the Central and Eastern Subareas.
Short-bracted bird's-beak *(Cordylanthus rigidus ssp. brevibracteatus)*	-/-/4.3	Chaparral, lower montane coniferous forest, pinyon and juniper woodlands, and upper montane coniferous forests in open and granitic areas. The short-bracted bird's-beak is known to occur at elevations from 2,000 to 8,500 feet.	Not expected
Sierra Canyon gooseberry (Aromatic canyon gooseberry) *(Ribes menziesii var. ixoderme)*	-/-/1B.2	Chaparral, Cismontane woodlands at elevations from 2,000 to 3,800 feet.	Not expected
Sierra Nevada monkeyflower *(Erythranthe sierrae)*	-/-/4.2	Dry meadows and seeps and in vernally wet depressions, swales, and streambanks in openings of cismontane woodlands and lower montane coniferous forests at elevations from 600 to 7,500 feet (CNPS 2014).	Not expected
Silky lupine *(Lupinus elatus)*	-/-/4.3	Dry areas of lower montane coniferous forests and upper montane coniferous forests at elevations from 4,900 to 9,850 feet.	Relatively common
Slender clarkia (*Clarkia exilis*)	-/-/4.3	Cismontane woodlands and grows at elevations from 390 to 3,300 feet.	Yes, in Tier 2 of the Eastern Subarea.
Small flowered morning glory *(Convolvulus simulans)*	-/-/4.2	Chaparral, coastal scrub, and grassland habitats at elevations from 100 to 2,300 feet.	Yes, in Tier 2 of the Eastern Subarea.
Stinkbells *(Fritillaria agrestis)*	-/-/4.2	Chaparral, cismontane woodland, pinyon juniper and grassland habitats sometimes in serpentine soils at elevations from 300 to 5,100 feet.	Relatively common, minor occurrence

Table 4.4-26: Special Status Plant Species with Potential to Occur in the Project Area

Species	Status (Fed/State/CNPS)	Habitat	Potential to Occur in Project Area
Streambank spring beauty *(Claytonia parviflora ssp. grandiflora)*	-/-/4.2	Pine/blue oak woodlands in the Sierra Nevada Foothills at elevations from 800 to 4,000 feet (CNPS 2014). It is typically found in uplands and valleys with gentle to steep slopes where soils tend to be shallow, infertile, and moderately to excessively-drained with extensive rock fragments that may cover the ground surface.	Not expected
Sylvan microseris *(Microseris sylvatica)*	-/-/4.2	Chaparral, cismontane woodland, pinyon and juniper woodlands, and grassland habitats.	Yes, in Tier 2 of the Eastern Subarea.
Tehachapi buckwheat *(Eriogonum callistum)*	-/-/1B.1	Chaparral habitats on rocky and limestone areas at elevations from 4,600 to 4,900 feet (CNPS 2014).	Not expected
Tehachapi monardella *(Monardella linoides ssp. oblonga)*	-/-/1B.3	Upper and lower montane coniferous forest, and pinyon and juniper woodlands at elevations from 2,900 to 8,200 feet.	Not expected
Tracy's eriastrum *(Eriastrum tracyi)*	-/SCR/3.2	This species occurs in chaparral and cismontane woodland habitats. It usually occurs at elevations from 1,000 to 5,500 feet (CNPS 2014).	Yes, in Tier 2 of the ~~Western~~ Eastern Subarea.
White pygmy-poppy *(Canbya candida)*	-/-/4.2	Joshua tree woodland, Mojavean desert scrub, and pinyon and juniper woodland habitats. The species usually occurs at elevations from 1,900 to 4,800 feet (CNPS 2014).	Not expected

Status abbreviations:
Federal and State Listing Code
E = Federal or State-listed Endangered
T = Federal or State-listed Threatened
SR = State Rare
DL = Delisted

California Rare Plant Ranks (formerly known as CNPS Lists)
1A: Plants Presumed Extirpated in California and Either Rare or Extinct Elsewhere
1B: Plants Rare, Threatened, or Endangered in California and Elsewhere
2A: Plants Presumed Extirpated in California, But Common Elsewhere
2B: Plants Rare, Threatened, or Endangered in California, But More Common Elsewhere
3: Plants About Which More Information is Needed - A Review List
4: Plants of Limited Distribution - A Watch List
Threat Ranks
0.1-Seriously threatened in California (over 80% of occurrences threatened / high degree and immediacy of threat)
0.2-Moderately threatened in California (20-80% occurrences threatened / moderate degree and immediacy of threat)
0.3-Not very threatened in California (less than 20% of occurrences threatened / low degree and immediacy of threat or no current threats known)

Pages 4.4-71 through 4.4-73 of the DEIR, Section 4.4.2, *third full paragraph, is revised as follows, as described in Response to Comment 0004-49 of Section 7.2:*

Data collected from previous conservation-related studies and projects within the Project Area were also reviewed. Data sources included:

Wildlife species listed as threatened or endangered under ESA (Wildlife, 50 CFR § 17.11 and Errata; Plants, 50 CFR §17.12 and Errata, 2002).

Wildlife species that are candidates for listing under ESA (Wildlife and Plants, 50 CFR §17.3 Proposed and Final Rules, 1999).

SJV Recovery Plan (USFWS 1998).

Wildlife species listed as rare, candidate, threatened, or endangered under CESA (Wildlife, CCR Title 14, Section 670.5, 1971 as amended~~; Plants, CCR Title 14, Section 670.2, 1978 as amended)~~.

CNDDB (CDFW 2014, 2015a).

California Special Animals (CDFW 2015b).

Kern County VFHCP (Garcia and Associates 2010).

MBHCP and EIR (City of Bakersfield and County of Kern 1994).

Draft Chevron LHCP.

Draft California Resources Corporation EHHCP.

Freeport McMoRan Oil & Gas HCP.

Pages 4.4-72 through 4.4-83 of the DEIR, Section 4.4.2, *is revised to replace Table 4.4-36 in its entirety with the new Table 4.4-36 set forth below, as described in Response to Comment 0004-50 of Section 7.2:*

Table 4.4-36: Special-Status Wildlife Species with Potential to Occur in the Project Area

Species	Status (Fed/State)	Habitat	Potential to Occur in Project Area
Category 1 Wildlife Species			
Amphibians			

Table 4.4-36: Special-Status Wildlife Species with Potential to Occur in the Project Area

Species	Status (Fed/State)	Habitat	Potential to Occur in Project Area
Tehachapi slender salamander *(Batrachoseps stebbinsi)*	-/T	This species inhabits north-facing, moist canyons and ravines in oak and mixed woodlands in arid to semi-arid locations (California Herps 2014). It is found under rocks, logs, bark, and other debris in moist areas, especially in areas with a lot of leaf-litter, often near talus slopes at elevations from 2,000 to 4,600 feet.	Yes, in Tier 1 of the Eastern Subarea.
Western spadefoot *(Spea hammondii)*	-/CSC	Occupies various habitats, including grassland, chaparral and oak-pine woodlands. Requires vernal pools for breeding and egg-laying. Occurs throughout the greater San Joaquin Valley, including associated foothills (California Herps 2014).	Yes, in Tier 2 of all subareas.
Reptiles			
Blunt-nosed leopard lizard *(Gambelia sila)*	E/E, SFP	Sparsely vegetated, arid habitats of saltbush scrub, alkali sinks, non-native grasslands, Ephedra scrub, and washes ranging in elevations from 90 to 2,600 feet.	Yes, in Tiers 1, 2, 3, and 4 of all subareas.
Coast horned lizard *(Phrynosoma coronatum)*	-/CSC	Occurs in relatively open areas of coastal sage scrub, annual grassland, chaparral, oak woodland, riparian woodland, and pine forest habitat on sandy soil, often in association with harvester ants.	Yes, in portions of Tiers 1, 2, 3, and 4 of all subareas.
San Joaquin coachwhip *(Masticophis flagellum ruddocki)*	-/CSC	Open, dry, treeless areas, including grasslands and saltbush scrub habitat to 3,000 feet in elevation (Jennings and Hayes 1994). This species takes refuge in rodent burrows, under shaded vegetation, and under surface objects such as woody debris, rocks, and boards.	Yes, in Tiers 1, 2, and 4 of the Western and Central Subareas.
Silvery legless lizard *(Anniella pulchra pulchra)*	-/CSC	Burrows in sandy or loose loamy soil and leaf litter of high moisture content under sparse vegetation, particularly in coastal dune and oak woodland habitats.	Yes, in Tiers, 2 and 3 of all subareas.
Western pond turtle *(Actinemys marmorata)*	-/CSC	Inhabits vegetated ponds, lakes, and watercourses including rivers, streams, creeks, and canals with basking substrates such as logs, rocks, and exposed banks.	Yes, in Tiers 1, 2, and 3 of all subareas.
Birds			
Burrowing owl *(Athene cunicularia)*	-/CSC	Resident throughout southern California. Occurs in open grassland, desert, and scrubland habitats with widely spaced vegetation. Dependent upon burrowing mammals, especially California ground squirrel, for nesting. Forages on insects and small reptiles or mammals. Permanent resident in southern California.	Yes, in Tiers 1, 2, 3, 4, and 5 of all subareas.

Table 4.4-36: Special-Status Wildlife Species with Potential to Occur in the Project Area

Species	Status (Fed/State)	Habitat	Potential to Occur in Project Area
Golden eagle (*Aquila chrysaetos*)	-/WL, SCFP	Resident throughout southern California. Forages in open terrain in deserts, mountains, foothill slopes, and valleys throughout southern California. Nests on cliffs or large trees, and also on artificial structures or rarely, the ground.	Yes, in Tiers 1, 2, and 3 of the Western Subarea.
Grasshopper sparrow *(Ammodramus savannarum)*	-/CSC	The species occurs in dense grasslands on rolling hills, lowland plains, valleys, and on hillsides on lower mountain slopes. It favors native grasslands mixed with forbs and scattered shrubs and is loosely colonial while nesting (CDFW 2014).	Yes, in all Tiers in the Western and Eastern Subareas.
Least Bell's vireo *(Vireo bellii pusillus)*	E/E	Requires a dense shrub layer 1.5 to 9 feet aboveground in riparian willow scrub habitat, but will use non-riparian habitat as well. Largely absent above 1,640 feet in elevation. Nests occur primarily in willow. Much of historically suitable habitat within the Project Area has been degraded and only known from one location at Windwolves Preserve in the far southern portion of the Western Subarea.	Yes, within Tiers 1 and 2 of the Western and Eastern Subareas.
Le Conte's thrasher *(Toxostoma lecontei)*	-/CSC	This species is generally found in open desert scrub, alkali desert scrub, and desert succulent scrub. Nesting habitat mainly consists of taller, bushier shrubs. The Le Conte's thrasher is most commonly associated with sandy and alkaline soils (USWFS 1998). Found to 3,800 feet in elevation.	Yes, in Tiers 1, 2, and 4 of all subareas.
Lesser sandhill crane *(Grus canadensis canadensis)*	-/CSC	This species winters near annual and perennial grassland habitats, croplands, and open emergent wetlands in the San Joaquin and Imperial Valleys, and up to Sacramento Valley. Foraging habitat for the lesser sandhill crane consists of shortgrass plains, grain fields, and open wetlands (Grinnell and Miller 1944). It most commonly uses moist sites; however, dry plains farther from water are also utilized.	Yes, in Tiers 1, 2, 3, and 4 of the Western and Central Subareas.
Mountain plover *(Charadrius montanus)*	C/CSC	This species inhabits open, arid, sparsely vegetated shortgrass plains and fields, plowed fields, rolling hills, and deserts. This species prefers non-sandy soils with at least 30% bare ground, and favors prairie dog towns, areas heavily grazed by domestic livestock, bare ground areas near artificial watering structures, and recently fallowed or tilled crop fields. Blue grama (*Bouteloua gracilis*) and buffalograss (*Buchloe dactyloides*) communities can provide habitat for this species (Knopf and Rupert 1995).	Yes, in Tiers 1 and 2 of the Western and Central Subareas.

Table 4.4-36: Special-Status Wildlife Species with Potential to Occur in the Project Area

Species	Status (Fed/State)	Habitat	Potential to Occur in Project Area
Northern harrier *(Circus cyaneus)*	-/CSC	Ground nester in variety of habitats, including wet meadows, lightly grazed pastures, old fields, freshwater and brackish marshes, dry upland prairies, mesic grasslands, drained marshlands, croplands, and riparian woodland.	Yes, in Tiers 1 and 2 of the Western Subarea.
Swainson's hawk *(Buteo swainsoni)*	-/T	Breeds throughout California in mixed agricultural or savannah landscapes with fields and scattered trees. Vagrant in coastal southern California. Occurs in Los Angeles County mountains.	Yes, in Tiers 1 and 2 of the Western and Central Subareas.
Tricolored blackbird *(Agelaius tricolor)*	-/E	Breeds and forages in fresh-water marshes of cattails, tule and sedges; and willows and blackberries. In southern California, occurs from Santa Barbara to San Diego Counties.	Yes, the Tiers 1, 2, and 3 of all subareas.
Yellow-headed blackbird *(Xanthocephalus xanthocephalus)*	-/CSC	The species is found in freshwater marshes during the summer amongst cattails, tule, and bulrush. During migration and over the winter months, it is found in open, cultivated lands, in cropfields, and in pastures (Dotzour 2002).	Yes, in Tiers 2 of the Western and Eastern Subarea.
Mammals			
American badger *(Taxidea taxus)*	-/CSC	This species occurs primarily in large grass and sagebrush meadows and valleys with friable soil; however, badgers are also found in forest glades and meadows, marshes, brushy areas, hot deserts, and mountain meadows. In California, the American badger occurs from high alpine meadows to sea level (or below in Death Valley).	Yes, in Tiers 1, 2, and 4 of all subareas.
Buena Vista Lake shrew *(Sorex ornatus relictus)*	E/-	This species inhabits riparian and wetland vegetation communities with an abundance of leaf litter and dense herbaceous cover (Williams and Harpster 2001).	Yes, in Tiers 1, 2, and 4 of the Western and Central Subareas.
Giant kangaroo rat *(Dipodomys ingens)*	E/E	This species inhabits grasslands and shrub communities on a variety of soil types and on slopes up to about 22% and 2,900 feet above sea level (USFWS 1998).	Yes, in all Tiers of all Subareas.
San Joaquin antelope squirrel *(Ammospermophilus nelsoni)*	-/T	This species inhabits relatively arid annual grassland and shrubland communities. The San Joaquin antelope squirrel is restricted to desert and shrubland habitats.	Yes, in Tiers 1, 2, 3, and 4 of all subareas.

Table 4.4-36: Special-Status Wildlife Species with Potential to Occur in the Project Area

Species	Status (Fed/State)	Habitat	Potential to Occur in Project Area
San Joaquin kit fox *(Vulpes macrotis mutica)*	E/T	The San Joaquin kit fox occupies a variety of habitats, including grasslands, scrublands, oak woodlands, alkali sink scrubland, vernal pool areas, and alkali meadow communities as well as extensively modified habitats, such as oilfields and wind turbine facilities (USFWS 1998). They are present, but generally less abundant, in other highly modified landscapes, such as agricultural row crops, irrigated pastures, orchards, vineyards, and grazed annual grasslands.	Yes, in Tiers 1, 2, 3, 4 and 5 of all subareas.
San Joaquin pocket mouse *(Perognathus inornatus)*	-/CSC	The species' habitat is generally characterized as open and sandy areas with grasses and forbs. This species can usually be found between 1,000 to 2,000 feet elevation. Likely to be present in many habitat types found within the Project Area.	Yes, in Tiers 1, 2, 3, and 4 of all subareas.
Short-nosed kangaroo rat *(Dipodomys nitratoides brevinasus)*	-/CSC	This species inhabits arid grasslands and shrublands with low, gently-sloping hills and friable soils, particularly those along the western half of the Central Valley ranging from Merced County south to the foothills of the Tehachapi Mountains. They are known to inhabit alkaline soils around Soda Lake on the Carrizo Plain; however, they are also known to occur on less saline soils elsewhere. They are generally found on lighter, powdery soils near sandy bottoms and banks of arroyos and other sandy areas (USFWS 1998).	Yes, in Tier 1, 2, 3, and 4 of all subareas.
Tipton kangaroo rat *(Dipodomys nitratoides nitratoides)*	E/E	This species inhabits arid-land communities occupying the valley floor of the Tulare Basin in level or nearly level terrain. It occupies alluvial fan and floodplain soils ranging from fine sands to clay-sized particles. Generally, woody shrubs of one or more species are sparsely scattered over occupied terrain with scant-to-moderate ground cover of grasses and forbs.	Yes, in Tiers 1, 2, 3, and 4 of all subareas.
Tulare grasshopper mouse *(Onychomys torridus tularensis)*	BLMS -/CSC	This species is known to occur within arid shrubland and grassland habitats including blue oak woodlands, alkali sink and mesquite vegetation (USFWS 1998).	Yes, in Tiers 1, 2, and 4 of the Western and Eastern Subareas.
Western mastiff bat (Greater western mastiff bat) *(Eumops perotis californicus)*	-/CSC	Range extends from California to west Texas and into Mexico, occupying a wide range of habitat from desert scrub to mixed montane forest. Roosting occurs on cliffs with crevices or exfoliating rock slabs.	Yes, in Tiers 1 and 2 of the Western Subarea.
Category 2 Wildlife Species			
Invertebrates			

Table 4.4-36: Special-Status Wildlife Species with Potential to Occur in the Project Area

Species	Status (Fed/State)	Habitat	Potential to Occur in Project Area
Kern primrose sphinx moth *(Euproserpinus euterpe)*	T/-	This species is associated with sandy washes consisting of coarse to fine textured, decomposed granite soil, and dominant vegetation that includes red-stemmed stork's beak (*Erodium cicutarium*), baby blue-eyes (*Nemophila menziesii*), rabbit brush (*Chyysothamnus nausseosus*), gold fields (*Lasthenia chrysostoma*), and brome grass (*Bromus arenarius*).	Yes, within Tiers 1, 2, 3, and 4 of the Western Subarea.
Longhorn fairy shrimp *(Branchinecta longiantenna)*	E/-	The species typically occurs in large, turbid pools and can occur in vernal pools of different landforms, geologic formations, and soil types. Known from the Western Subarea within the Carrizo Vernal Pool Regions.	Yes, in Tiers 1, 2, 3, and 4 of the Central and Western Subareas
Vernal pool fairy shrimp *(Branchinecta lynchi)*	T/-	Vernal pools with clear to tea-colored water, typically in grass or mud-bottomed swales in unplowed grasslands (Eriksen and Belk 1999), but has been found to occur in pools ranging from small, clear, sandstone rock pools to large, turbid, alkaline, grassland valley floor pools.	Yes, in Tier 2 of the Central and Eastern Subareas.
Fishes			
Kern brook lamprey *(Entosphenus hubbsi)*	-/CSC	The Kern brook lamprey tends to occupy slow backwaters of foothill streams and is commonly associated with sand, gravel, and rubble substrates.	Yes, within waterbodies in Tiers 1 and 2 of the Eastern Subarea.
Amphibians			
California red-legged frog *(Rana draytonii)*	T/-	The species occurs in quiet pools of streams, marshes, and sometimes ponds. It is found mainly near ponds in humid forests, woodlands, grasslands, coastal scrub, and streamsides with plant cover and most often occurs in lowlands or foothills and in woods adjacent to streams. Breeding habitat consists of permanent or ephemeral water sources such as lakes, ponds, reservoirs, slow streams, marshes, bogs, and swamps. This species is usually found at elevations to 5,000 feet.	Yes, within Tier 2 of the Western Subarea.

Table 4.4-36: Special-Status Wildlife Species with Potential to Occur in the Project Area

Species	Status (Fed/State)	Habitat	Potential to Occur in Project Area
California tiger salamander *(Ambystoma californiense)*	E/T	The USFWS has identified critical habitat for the California tiger salamander in the northwest corner of the Project Area within the Temblor Range. Grasslands and low foothill regions where lowland aquatic sites are available for breeding. This species also requires nearby upland terrestrial habitat for aestivation that contains small mammal burrows (particularly California ground squirrel burrows) or crevices that provide refugia. The California tiger salamander occurs at elevations to 3,200 feet (Jennings and Hayes 1994).	Yes, within Tier 2 of the Western Subarea.
Kern Canyon slender salamander *(Batrachoseps simatus)*	-/T	The species occurs only in the lower Kern River Canyon in chaparral, cismontane woodland, riparian scrub, and riparian woodland communities. It prefers north facing slopes and is found under vegetative liter such as downed pine, oak, and chaparral scrub logs as well as under rocks (California Herps 2014). The species' elevation ranges from 1,400 feet up to 4,000 feet at Erskine Creek.	Yes, within Tiers 2 and 3 of the Eastern Subarea.
Yellow-blotched salamander (*Ensatina eschscholtzii croceator)*	-/CSC	This species is found in evergreen and deciduous forests, under rocks, logs, and other surface debris, especially bark that has peeled off and fallen beside decaying logs.	Yes, in Tier 2 of the Eastern Subarea.
Reptiles			
Bakersfield legless lizard *(Annielle grinnelli)*	-/-	Burrows in sandy or loose loamy soil and leaf litter of high moisture content under sparse vegetation, particularly in coastal dune and oak woodland habitats.	Yes, in Tiers 1, 2, 3, and 4 of all Subareas.
Temblor legless lizard *(Anniella alexanderae)*	-/-	Burrows in sandy or loose loamy soil and leaf litter of high moisture content under sparse vegetation, particularly in coastal dune and oak woodland habitats.	Yes, in Tiers 1, 2, 3, and 4 of all Subareas.

Table 4.4-36: Special-Status Wildlife Species with Potential to Occur in the Project Area

Species	Status (Fed/State)	Habitat	Potential to Occur in Project Area
Birds			
Bald eagle *(Haliaeetus leucocephalus)*	D/E, SFP	During winter, may forage in non-urbanized portions of Project component areas. This species is occasionally present as a local winter migrant at a few localities in Kern County. It most frequently uses perches that are open and easily approached, such as large, stoutly limbed trees, snags, or broken-topped trees.	Yes, in Tiers 1 and 2 of the Eastern Subarea.
California condor *(Gymnogyps californianus)*	E/E, SFP	Roosts on large trees, snags, or isolated rock outcrops or cliffs. Nests where there is minimal disturbance, typically cliffs or shallow caves with no nesting material. Requires vast remote areas for foraging, including grasslands and oak savannas. Feeds on carrion of large mammals. Condors may fly 150 miles a day in search of food.	Yes, in Tiers 1 and 2 of the Eastern and Western Subareas.
Fulvous whistling-duck (*Dendrocygna bicolor)*	-/CSC	It inhabits and nests in marshlands, wet meadows, rice fields, flooded agricultural areas, and lagoons. This species prefers to nest in dense wetlands, shallow lacustrine and quiet riverine waters.	Yes, within Tier 2 of the Central and Western Subareas.
Loggerhead shrike *(Lanius ludovicianus)*	-/CSC	Relatively common in suitable habitat within the Project Area. Suitable habitat for nesting and foraging present throughout Project component areas. Nests in dense shrubs. Hunts in grassland, scrubland, or open woodland, preferring open areas bordered by trees and brush.	Yes, in Tiers 1, 2, and 4 of the Western and Eastern Subareas.
Long-eared owl *(Asio otus)*	-/CSC	This species inhabits conifer, oak, riparian, pinyon-juniper, and desert woodlands that are either open or are adjacent to grasslands, meadows, or shrublands from sea level up to 6,550 feet in elevation. Nesting and roosting habitat require dense wooded areas with openings for hunting, windrows, caves and/or cracks in rock canyons.	Yes, in Tier 1 of the Eastern Subarea.
Short-eared owl *(Asio flammeus)*	-/CSC	In the Project Area, this species is likely to winter in marsh and seep, meadow and seep, valley and foothill grassland, and wetland habitats. May also forage in irrigated alfalfa fields. It requires tall grasses for daytime seclusion.	Yes, in all Tiers of the Central and Western Subareas
Western snowy plover *(Charadrius alexandrinus nivosus)*	T/-	In the Project Area, this ground nesting bird may inhabit barren to sparsely vegetated sand beaches, levees and flats at salt-evaporation ponds, river bars, along alkaline or saline lakes, reservoirs, and ponds.	Yes, in Tier 2 of the Central and Western Subareas.
White-tailed kite *(Elanus leucurus)*	-/SFP	Occurs in grasslands, savannah, oak woodlands, and mixed agricultural areas. Nesting typically near water in large trees. Permanent resident in southern California.	Yes, in Tiers 1, 2, 3, and 4 of all subareas.

Table 4.4-36: Special-Status Wildlife Species with Potential to Occur in the Project Area

Species	Status (Fed/State)	Habitat	Potential to Occur in Project Area
Mammals			
Pallid bat *(Antrozous pallidus)*	-/CSC	Inhabits a variety of habitats. Associated with oak woodlands. Roosting occurs singly or in groups in a wide range of crevice types.	Yes, in Tiers 1, 2, 3, and 4 of the Western Subarea and in Tiers 2, 3, and 4 of the Eastern Subarea.
Ringtail *(Bassariscus astutus)*	-/CSC, CFP	The ringtail prefers to live in rocky habitats associated with water. These areas can include riparian canyons, caves, and mine shafts.	Yes, in Tiers 1, 2, 3, and 4 of the Western and Eastern Subareas.
Townsend's big-eared bat *(Corynorhinus townsendii)*	-/C	Townsend's big-eared bats occur in a variety of habitats throughout California, but they are most commonly associated with desert scrub, mixed conifer forest, and pinon-juniper or pine forest habitat.	Yes, in Tiers 1, 2, 3, and 4 of all subareas.
Category 3 Wildlife Species			
Invertebrates			
Conservancy fairy shrimp *(Branchinecta conservatio)*	E/-	The species typically occurs in large, highly turbid pools, and it can occur in vernal pools of different landforms, geologic formations, and soil types.	Not expected
Hopping's blister beetle *(Lytta hoppingi)*	-/-	There is no published information on habitat or floral visitation records for Hopping's blister beetle.	Not expected
Kern shoulderband *(Helminthoglypta callistoderma)*	-/-	There is no published information on habitat or floral visitation records for Kern shoulderband.	Not expected
Moestan blister beetle *(Lytta moesta)*	-/-	There is no published information on habitat or floral visitation records for this species.	Yes, in Tier 2 of the Western and Eastern Subareas.
Morrison's blister beetle *(Lytta morrisoni)*	-/-	There is no published information on habitat for this species available.	Not expected
San Emigdio blue butterfly *(Plebulina emigdionis)*	-/-	The San Emigdio butterfly occupies desert canyons and is found along riverbeds.	Yes, in Tier 1 of the Western Subarea.
Valley elderberry longhorn beetle *(Desmocerus californicus dimorphus)*	T/-	Riparian habitat only in the vicinity of their host plant, the elderberry.	Not expected

Table 4.4-36: Special-Status Wildlife Species with Potential to Occur in the Project Area

Species	Status (Fed/State)	Habitat	Potential to Occur in Project Area
Zavortink's protodufourea bee *(Protodufourea zavortinki)*	-/-	There is no information on species habitat preferences published.	Yes, in Tier 4 of the Western Subarea.
Fishes			
Delta smelt *(Hypomesus transpacificus)*	T/T	The delta smelt moves into tidal freshwater habitats to spawn from late winter to spring. Most of the spawning of this species occurs in Suisun Marsh and the Napa River.	Not expected
Amphibians			
Foothill yellow-legged frog *(Rana boylii)*	-/SSC	This species prefers partly-shaded shallow streams with a rocky substrate in a variety of habitats such as chaparral, cismontane woodland, coastal scrub, Klamath/North coast flowing waters, lower montane coniferous forests, meadow and seep, riparian forest, riparian woodland, and Sacramento and San Joaquin flowing waters (CDFW 2014).	Not expected
Northern leopard frog *(Lithobates pipiens)*	-/SSC	This species requires a mosaic of habitats to meet the requirements of all of its life stages. It breeds in a variety of aquatic habitats that includes slow-moving or still water along streams and rivers, wetlands, permanent or temporary pools, beaver ponds, and human-constructed habitats such as earthen stock tanks and borrow pits.	Not expected
Reptiles			
Giant garter snake *(Thamnophis gigas)*	FT/CT	This species is found in marshes, sloughs, drainage canals, and irrigation ditches, especially around rice fields, and occasionally in slow-moving creeks from sea level to 400 feet. It prefers locations with vegetation close to the water for basking (California Herps 2014).	Not expected
San Bernardino ringneck snake *(Diadophis punctatus modestus)*	-/-	The San Bernardino ringneck snake is found primarily in canyons and foothills, and sometimes in sand dunes. They are secretive, and often take refuge under rocks, dead leaves, and downed woody debris.	Yes, in Tiers 1 and 2 of the Eastern Subarea.
Birds			
Black-crowned night heron *(Nycticorax nycticorax)*	-/-	The black-crowned night-heron is a fairly common, yearlong resident in lowlands and foothills throughout most of California. Feeds along the margins of lacustrine, large riverine, and fresh and saline emergent habitats and, rarely, on kelp beds in marine subtidal habitats. Nests and roosts in dense-foliaged trees and dense emergent wetlands.	Yes, in Tier 2 of the Western Subarea.

Table 4.4-36: Special-Status Wildlife Species with Potential to Occur in the Project Area

Species	Status (Fed/State)	Habitat	Potential to Occur in Project Area
California horned lark *(Eremophila alpestris actia)*	-/WL	It is found in open areas dominated by sparse low herbaceous vegetation or widely scattered low shrubs. California horned larks nest in on the ground often next to grass tufts, clods of earth, or manure (NatureServe Explorer 2015).	Yes, in Tiers 1 and 2 in all subareas.
Great egret *(Ardea alba)*	-/-	Requires groves of trees suitable for nesting and roosting, relatively isolated from human activities, near aquatic foraging areas. Feeds in shallow water and along shores of estuaries, lakes, ditches, and slow-moving streams, in salt ponds and mudflats, and in irrigated croplands and pastures.	Yes, in Tier 2 of the Western and Eastern Subareas.
Merlin *(Falco columbarius)*	-/WL	Inhabits coastlines, open grasslands, savannahs, woodlands, lakes, wetlands, edges, and land in early successional stages. It ranges from annual grasslands to ponderosa pine and montane hardwood-conifer habitats (Zeiner et al. 1988-1990).	Yes, in Tier 2 and 4 of the Western and Eastern Subareas.
Prairie falcon *(Falco mexicanus)*	-/WL	Prairie falcons inhabit grasslands, shrub-steppe, deserts, and other open areas of the west up to about 10,000 feet elevation, but they also reside in cultivated fields, lakeshores, and desert scrub during the winter (Cornell 2015a). In the Sierra Nevada, prairie falcons range above timberline in late summer, but at lower elevations during the winter, such as in the San Joaquin Valley. During the breeding season, prairie falcons are commonly found in the foothills and mountains which provide cliffs and escarpments suitable for nest sites. The prairie falcon generally nests on cliffs and prefers cliffs with sheltered ledges, loose debris, or gravel that overlook treeless country for hunting. The species also nests on power pole structures. In the San Joaquin Valley, most prairie falcon nests have northern exposures; no south-facing ledges have been documented.	Yes, in all Tiers and in all Subareas.
Snowy egret *(Egretta thula)*	-/-	During the breeding season, snowy egrets feed in estuaries, saltmarshes, tidal channels, shallow bays, and mangroves. They winter in mangroves, saltwater lagoons, freshwater swamps, grassy ponds, and temporary pools, and forage on beaches, shallow reefs, and wet fields.	Yes, in Tier 2 of the Western and Eastern Subareas.
Southwestern willow flycatcher *(Empidonax traillii extimus)*	E/E	Nests in riparian vegetation, willows, and coast live oak. Feeds on insects.	Yes, in Tier 2 of the Western Subarea.

Table 4.4-36: Special-Status Wildlife Species with Potential to Occur in the Project Area

Species	Status (Fed/State)	Habitat	Potential to Occur in Project Area
Western yellow-billed cuckoo *(Coccyzus americanus occidentalis)*	C/E	Inhabits large tracts of riparian woodland with unbroken canopy and dense understory. Nests in trees typically with vertical branching.	Not expected
White-faced ibis (*Plegadis chihi*)	-/WL	This species inhabits fresh and saltwater marshes containing many rushes and sedges which are used to nest on, obtaining nesting materials, and for finding food. It is also found around ponds, rivers and in flooded pastures and agricultural fields. White-faced ibis occurs from near sea level to 14,100 feet elevation. (Gumbleton 2007)	Yes, in Tier 2 of the Western Subarea.
Mammals			
Dulzura pocket mouse *(Chaetodipus californicus femoralis)*	-/CSC	This species can occur in a wide variety of habitats, including montane hardwood, valley foothill hardwood-conifer forest, valley foothill hardwood, annual grassland, sagebrush, chamise-redshank and montane chaparral, and coastal scrub (Erickson and Patten 1999). This species is mostly abundant from areas where grassland and chaparral co-occur.	Not expected
Hoary bat *(Lasiurus cinereus)*	-/-	May be found at any location in California, although distribution is patchy in southeastern deserts. Prefers open habitats or habitat mosaics, with access to trees for cover and open areas or habitat edges for feeding. Generally roosts in dense foliage of medium to large trees. (Anderson 2002)	Yes, in Tier 2 of the Western and Eastern Subareas.

Status explanations:
Federal
DL = Delisted
E = Endangered
T = Threatened
BLMS = Bureau of Land Managament (BLM) Sensitive

State
E = Endangered
T = Threatened
SFP = California Department of Fish and Wildlife Designated (State) Fully Protected
CSC = California Department of Fish and Wildlife Species of Special Concern
WL = watch list

Page 4.4-86 of the DEIR, Section 4.4.2, *first full paragraph, is revised as follows, as described in Response to Comment 0004-51 of Section 7.2:*

The current distribution of the blunt-nosed leopard lizard is restricted to scattered sites in the southern San Joaquin Valley, Carrizo Plain, Elkhorn Plain, and southeastern Cuyama Valley, roughly corresponding to the western half of Kern County, the eastern boundary of San Luis

Obispo County, ~~and~~ the western portion of Kings County~~ies~~, the western boundary of Fresno County, and extreme southwestern Tulare County. This species persists in only 15% of its original range (Germano and Williams 1992). These lizards are now rare and localized within habitats throughout their current range.

Pages 4.4-95 through 4.4-96 of the DEIR, Section 4.4.2, *are revised as follows, as described in Response to Comment 0004-52 of Section 7.2:*

The least Bell's vireo is a federal~~ly~~ and state listed endangered species. Potential threats to the least Bell's vireo include agricultural conversion, urbanization, and exotic plant invasion, as well as, energy development, grazing, mining, and vehicles (USFWS 2006). Oil and gas extraction and conveyance continue to threaten least Bell's vireo. Impacts of oil and gas development on the least Bell's vireo include the loss of habitat, reduction in habitat quality, destruction of individuals or populations, and habitat fragmentation.

Page 4.4-140 of the DEIR, Section 4.4.3, *first full paragraph, is revised as follows, as described in Response to Comment 0004-55 of Section 7.2:*

Sections 1600 to 1616 of the CFGC states that it is unlawful to "substantially divert or obstruct the natural flow of, or substantially change or use any material from the bed, channel, or bank of any river, stream, or lake" without first notifying CDFW of that activity. Following notification to CDFW, a project may not legally occur until after CDFW does one of the following: 1) executes a Lake or Streambed Alteration Agreement; 2) determines that an agreement is not necessary and informs the applicant in writing; or 3) fails to issue an agreement within mandated time lines. If CDFW determines and informs the project proponent that the activity will not substantially adversely affect any existing fish or wildlife resources, the activity may be undertaken without further permitting. If CDFW determines that the proposed activity may substantially and adversely affect an existing fish or wildlife resource, a Lake or Streambed Alteration Agreement must be completed and approved by the CDFW, including reasonable measures necessary to protect the affected resources may be required prior to initiating the proposed activity (CFGC 1602).

Page 4.4-141 of the DEIR, Section 4.4.3, *third full paragraph, is revised as follows, as described in Response to Comment 0004-56 of Section 7.2:*

The Native Plant Protection Act (NPAA) of 1977 (CFGC 1900 et seq.) authorizes CDFW to designate rare and endangered native plants and provides specific protection measures for state listed species. The Fish and Game Commission has adopted regulations governing the taking, possession, propagation, transportation, exportation, importation or sale of any endangered or rare native plants (CCR Title 14, Section 786.9, 2014). CDFW may issue permts and plans that authorize rare plan impacts using the same procedures and under the same conditions as take authorizations issued pursuant to Title 14 CCR Section 783 et seq. relating to incidental take permits and Fish and Game Code Section 2800 et seq. relating to natural community conservation plans, as if rare plans were listed as endangered, threatened, or candidate species.

Page 4.4-143 of the DEIR, Section 4.4.3, *third full paragraph, is revised as follows, as described in Response to Comment 0004-57 of Section 7.2:*

In 1991 California enacted the Natural Community Conservation Planning Act (CFGC Section 2800 et seq.) to authorize the creation and implementation of natural community conservation plans (NCCPs) to conserve natural communities at the ecosystem level while accommodating compatible land use. The act was revised in 2003 and has been subsequently amended. An ~~MCPC~~ NCCP is intended to function much like a federal HCP and provide for the long-term conservation of wildlife and plant communities in regional locations in manner that also allows for economic development and growth. Section 2805(e) allows the incidental take of fully protected species that are covered under an approved ~~MCPC~~NCCP.

Page 4.4-154 of the DEIR, Section 4.4.3, *first full paragraph, is revised as follows, as described in Responses to Comments 0004-58 and 0004-59 of Section 7.2:*

Habitat Conservation Plans, Natural Community Conservation Plans or other Approved Local, Regional, or State ~~HCP~~ ITPs/NCCPs in the Planning Area

Oil and gas exploration and production activities could take place in areas within the boundaries of an approved HCP and/or Natural Community Conservation Plan (NCCP). As discussed in the regulatory setting below, HCPs are approved by the USFWS in conjunction with providing incidental take permit coverage for listed species and to also foster the conservation of other covered species. NCCPs are approved by the CDFW and are intended to function in a manner similar to the federal a HCP for state listed and other covered species. The CDFW may also issue incidental take permits for state covered species that are based on and coordinated with an approved federal HCP under section 2081(b) of the CESA. HCPs and NCCPs typically have permits terms ranging from 30 to 50 years.

The following sections summarize proposed and approved ~~and~~ HCPs for oil and gas activity, including oil and gas exploration, other HCPs within the Project Area, and approved regional plans or permits that address conservation and incidental take for oil and gas activities within the Project Area. The locations of HCPs and NCCPs within the Project Area are shown in figure 4.4-12.

Page 4.4-155 of the DEIR, Section 4.4.3, *is revised to replace Table 4.4-66 in its entirety with new Table 4.4-66 set forth below, as described in Response to Comment 0004-60 of Section 7.2:*

Table 4.4-66: Draft Valley Floor Habitat Conservation Plan Covered Plant Species List

Common Name	Scientific Name	Status		
		Federal	State	CNPS
Heartscale	*Atriplex cordulata*	-	-	1B
Bakersfield smallscale	*Atriplex tularensis*	-	CE	1B
Lost Hills crownscale	*Atriplex vallicola*	-	-	1B
California jewelflower	*Caulanthus californicus*	FE	CE	1B

Table 4.4-66: Draft Valley Floor Habitat Conservation Plan Covered Plant Species List

Common Name	Scientific Name	Status		
		Federal	State	CNPS
Slough thistle	*Cirsium crassicaule*	-	-	1B
Vasek's clarkia	*Clarkia tembloriensis* ssp. *calientensis*	-	-	1B
Recurved larkspur	*Delphinium recurvatum*	-	-	1B
Kern mallow	*Eremalche kernensis*	FE	-	1B
Hoover's eriastrum	*Eriastrum hooveri*	~~FT*~~DL	-	4
Striped adobe-lily	*Fritillaria striata*	-	CT	1B
Comanche Point layia	*Layia leucopappa*	-	-	1B
San Joaquin woolly-threads	*Monolopia congdonii*	FE	-	1B
Bakersfield cactus	*Opuntia basilaris* var. *treleasei*	FE	CE	1B
San Joaquin adobe sunburst	*Pseudobahia peirsonii*	FT	CE	1B

Source: Garcia and Associates 2010
Key:
Federal
FE = Federal Endangered
DL = Delisted
- = no Federal status
State
CE = state Endangered
CT = state Threatened
SSC = species of special concern
FPS = fully protected species
- = no state status
CNPS
1B = Plants rare and endangered in California and elsewhere
4 = Plants of limited distribution

Page 4.4-158 of the DEIR, Section 4.4.3, *starting with the fifth full paragraph, is revised as follows, as described in Responses to Comments 0004-61 and 0004-62 of Section 7.2:*

The HCP would allow Chevron to generate conservation credits by using conversation easements to permanently preserve and provide~~ing~~ funding for the management of Chevron Lokern Lands over the permit term. Chevron would permanently protect 1,500 acres of the Chevron Lokern Lands at the time that the HCP becomes effective. The credits created by preservation within the Chevron Lokern Lands would be used to mitigate for covered activity impacts in Chevron Lokern Lands, Lokern Contiguous Area, and the four oil fields included in the HCP. Chevron also proposes to allow for the use of conservation credits by Chevron or by sale to third parties to mitigate for impacts within an 2,261,715 acre (3,534 square mile) credit area that includes the San Joaquin Valley floor up to 2,000-foot elevation within Kern County once the conservation lands are federally and state approved as a mitigation bank pursuant to CFGC Section 1798 et seq. The state and federal incidental take permits that would be issued to Chevron by the USFWS and CDFW would not provide coverage for third party or Chevron activities outside of the Chevron Lokern Lands, Lokern Contiguous Area, and the four oil fields included in the HCP, and the use

of credits generated by preservation within the Chevron Lokern Lands would be subject to separate approval/permitting processes as necessary.

The activities for which take coverage would be provided under the proposed HCP and state 2081(b~~a~~) permits include existing and potential future oil and gas drilling and maintenance and operational activities for existing facilities described in Chapter 3, Project Description (Section 3.5, Potential Future Oil and Gas Development Scenario) together with the mitigation measures identified in Section 4.4.4, Impacts and Mitigation Measures. Habitat management and site restoration, reclamation and re-vegetation described in the Best Management Practices or required by mitigation measures may include, among other activities, scientific research to facilitate implementation of mitigation measures (to avoid and minimize take) and for monitoring; and continuation of livestock grazing on areas historically grazed or additional areas for management of non-native vegetation. There also may be incidental site visits for educational purposes, including school tours, VIP tours, regulatory agency tours, and other tours benefiting the public, with controlled ingress and egress on existing roads and supervision by Chevron.

Pages 4.4-159 through 4.4-160 of the DEIR, Section 4.4.3, *are revised starting immediately after the third full paragraph as follows, as described in Response to Comment 0004-64 of Section 7.2 :*

In regards to FESA, CRC has also prepared an HCP in connection with a future proposed additional federal take authorization under Section 10 of FESA. There is no impending expiration date in the take authorization approved by the Service under FESA, or any other federal approval. Therefore, a future separate EIS will be prepared to comply with NEPA (42 [U.S.C.] 4321; 40 CFR 1500.1) with the Service as lead agency when it begins its evaluation for issuance of the federal ITP under Section 10 of the FESA, whenever such additional approval is deemed necessary.

Requested ITP

CRC is applying for an ITP from CDFW, pursuant to Section 2081(b) of the ~~Fish and~~ CFGC. The Section 2081 application, which ~~includes an associated~~ would be a companion permit to federal EHHCP ~~that supports the proposed conservation and management program for the proposed EHOF~~, was deemed complete by CDFW on March 3, 2014. The area covered by the proposed EHOF ITP encompasses the EHOF which is approximately 47,884 acres; facility rights-of-way (ROWs) located outside of the EHOF (refer to Figures 4.4-16 and 4.4-17); and any Conservation Lands located within a Target Acquisition Area inside the 2-mile buffer and within a second Target Acquisition Area located outside the 2-mile buffer as identified on Figure 4.4-18 that are dedicated pursuant to the proposed EHOF and managed for the mitigation of impacts (the EHOF ITP Covered Lands). The proposed EHOF ITP Covered Lands includes projected oil and gas operations for 50 years; accordingly the requested ITP would have a term of 50 years and would authorize incidental take of certain State listed species (See Table 4.4-69) during the course of otherwise lawful activities described further below.

Pages 4.4-164 to 4.4-165 of the DEIR, Section 4.4.3, *are revised as follows, as described in Responses to Comments 0004-64 through 0004-66 of Section 7.2:*

~~In regards to FESA, CRC has also prepared an HCP in connection with a future proposed additional federal take authorization under Section 10 of FESA. There is no impending expiration date in the take authorization approved by the Service under FESA, or any other federal approval. Therefore, a future separate EIS will be prepared to comply with NEPA (42 [U.S.C.] 4321; 40 CFR 1500.1) with the Service as lead agency when it begins its evaluation for issuance of the federal ITP under Section 10 of the FESA, whenever such additional approval is deemed necessary.~~

Freeport-McMoRan Oil & Gas HCP

The Freeport-McMoRan Oil & Gas (formerly Nuevo-Torch then Plains Exploration and Production Company) HCP was adopted in 1999 and a companion state ITP was issued in 2000. The HCP and companion ITP address~~es~~ ongoing oilfield exploration ~~and~~ production and maintenance activities on oilfield properties located in western Kern County. The HCP encompasses 21,900 acres, including an initial 839.9 acres of conservation area lands in the Lokern area that will be set aside incrementally to compensate for habitat disturbances from oilfield activities. The federal incidental take statement authorized up to 1,700 acres of incidental take on the plan area lands. When Plains Exploration and Production Company acquired the properties from Nuevo-Torch in 2005, an additional 4,905 acres of land and were added to the HCP (an additional 414 acres of conservation area lands). In 2009, 300 acres of the incidental take acreage and 15 acres of the conservation land acreage were transferred to CRC (formerly Occidental) of Elk Hills, Inc., and Freeport-McMoRan (then Plains Exploration and Production Company) retained 1,400 acres of take acreage. In 2013 CDFW issued an ITP amendment addressing these changes. Freeport-McMoRan has added an additional 146 acres of conservation area lands to the HCP through acquisitions throughout the years. Covered species include the recurved Larkspur (*Delphinium recurvatum*), California horned lizard (*Phrynosoma coronatum frontale*), San Joaquin pocket mouse (*Perognathus inornatus*), Tulare grasshopper mouse (*Onychomys torridus tularensis*), western burrowing owl (*Athene cunicularia hypugea*), mountain plover (*Charadrius montanus*), Nelson's antelope ground squirrel (*Ammospermophilus nelsoni*), San Joaquin LeConte's thrasher (*Toxostoma lecontei macmillanorum*), San Joaquin whipsnake (*Masticophis flagellum ruddocki*), Hoover's woolly-star (*Eriastrum hooveri*), Bakersfield cactus (*Opuntia treleasei*), California condor (*Gymnogyps californianus*), San Joaquin kit fox (*Vulpes macrotis mutica*), California jewelflower (*Caulanthus californicus*), giant kangaroo rat (*Dipodomys ingens*) Tipton kangaroo rat (*Dipodomys nitratoides nitratoides*), blunt-nosed leopard lizard (*Gambelia silus*), Kern mallow (*Eremalche kernensis*), and San Joaquin woolly-threads (*Monolopia (=Lembertia) congdonii*).

Page 4.4-165 of the DEIR, Section 4.4.3, *is revised as follows, as described in Response to Comment 0004-67 of Section 7.2:*

CRC (formerly Occidental of Elk Hills, Inc.) Non-Unit HCP

The CRC Non-Unit HCP is a USFWS approved conservation plan that covers 7,050 acres (Live Oak Associates 2013). The HCP was originally prepared for Nuevo-Torch in February 1999. Federal i~~I~~ncidental take authorization and responsibilities under the HCP were transferred to Plains Exploration and Production Company (PXP) on May 9, 2005. PXP subsequently transferred 300 acres of authorized federal incidental take and 15 acres of conservation lands to CRC on

August 3, 2009. PXP retained take authorization and responsibilities on the remaining 1,400 acres of the original 1,700 acres authorized for incidental take, and these interests were subsequently conveyed to Freeport-McMoRan. In December 2009 USFWS approved the inclusion of 3,504 acres of new properties located in the vicinity of McKittrick Valley and the EHOF into the CRC Non-Unit HCP; 1,134 acres of the 3,504 acres were designated for use as mitigation land. No increase in the initially authorized 1,700 acres of take was included in the 2009 approval.

Pages 4.4-166 through 4.4-167 of the DEIR, Section 4.4.3, *are revised as follows, as described in Response to Comment 0004-68 of Section 7.2:*

Kern Water Bank HCP/Natural Community Conservation Plan

The Kern Water Bank HCP/Natural Community Conservation Plan (HCP/NCCP) is managed by the Kern Water Bank Authority and covers 19,900 acres. The plan was approved in 1997 and covers water conservation by developing water recharge and recovery facilities, the conservation and restoration of upland, intermittent wetland/rangeland, and other sensitive habitat, and the incidental take of San Joaquin kit fox (*Vulpes macrotis mutica*), Tipton kangaroo rat (*Dipodomys nitratoides nitratoides*), ~~giant kangaroo rat (*Dipodomys ingens*)~~ and blunt-nosed leopard lizard (*Gambelia sila*)~~, San Joaquin antelope squirrel (*Ammospermophilus nelsoni*), and Bakersfield cactus (*Opuntia basilaris var*)~~. The plan also includes a conservation bank that allows for conservation credit sales to third parties under certain conditions and subject to USFWS and CDFW approval. In 1997, ~~5,592~~3,267 acres of the plan area were set aside to be permanently preserved in the HCP area in conjunction with conservation credit sales~~, and 3,267 acres were included in the conservation bank~~. Currently, conservation easements have been recorded on 1,321 acres of Kern Water Bank's Conservation Bank.

Page 4.4-167 of the DEIR, Section 4.4.3, *is revised as follows, as described in Response to Comment 0004-69 of Section 7.2:*

Pacific Gas and Electric (PG&E) San Joaquin Valley Operations and Maintenance Program HCP

The PG&E San Joaquin Valley region HCP was approved by the USFWS ~~in early 2008~~ and CDFW issued a companion state ITP in eary 2008. The HCP and companion cover~~s~~ routine operations and maintenance and minor new construction activities related to PG&E's electrical system and natural gas facilities in the San Joaquin Valley for 30 years. The HCP covers 23 wildlife and 42 plant species, including the San Joaquin kit fox, California red-Legged frog, vernal pool fairy shrimp, and Western burrowing owl. The companion state ITP initially covered 8 wildlife species and 18 plan species, until CDFW issued a amendment to include California tiger salamander (*Ambystoma californiense*) in 2012. PG&E facilities ~~that are~~ covered by the HCP occur throughout the Project Area, generally within existing ROWs owned by the company.

Pages 4.4-167 through 4.4-168 of the DEIR, Section 4.4.3, *are revised as follows, as described in Responses to Comments 0004-70 and 0004-71 of Section 7.2:*

Metropolitan Bakersfield HCP

Implemented in 1994, the MBHCP (City of Bakersfield and County of Kern 1994) covers both federally and state-listed species in the 408-square-mile Metropolitan Bakersfield area, which

includes both City land and unincorporated County land. The goal of the MBHCP is to allow urban development consistent with the Metropolitan Bakersfield 2010 General Plan and offset habitat loss by acquiring, preserving, and enhancing habitat for sensitive species. Oil drilling activities are not covered under the MBHCP. The federal Section 10(a) permit and state 2081 permit allow take outside of the primary floodplain of the Kern River and the KWBHCP area. Both permits were issued for a concurrent period of up to twenty years or until urban development permits are issued for 15,200 acres of natural lands or 43,000 acres of open lands. The Metropolitan Bakersfield HCP is a joint program of the City of Bakersfield and Kern County (Chapter 17.62 of the Kern County Ordinances) to assist urban development applicants in complying with federal- and state-endangered species regulations (City of Bakersfield and County of Kern 1994). The program uses mitigation fees paid by applicants for grading or building permits to fund the purchase and maintenance of habitat land to compensate for the impact of urban development on endangered species habitat. The County and City ~~have updated the~~ requested a time exension for the MBHCP from the USFWS to provide federal incidental take coverage for an additional five years from the date of initial expiration, while ~~support the extension of the plan or~~ a new HCP is prepared for the planning area ~~set of take permits~~. A new state Incidental Take Permit was issued by CDFW and signed by the County and City on September 21, 2014 to authorize the take of species outlined in the permit as allowed in CFGC Section 2081, subdivisions (b) and (c) (See Cal. Code Regs., title 14, § 783.4). The ITP expires on September 1, 2019.

Pages 4.4-173 through 4.4-174 of the DEIR, Section 4.4.4, *are revised as follows, as described in Response to Comment 0004-75 of Section 7.2:*

Potential acreage impacts are estimated for each subarea based on the average historical disturbance per production well for all oil and gas exploration and production related activities, including well pads and staging areas, roads, utilities, pipelines, tanks, and other facilities and related infrastructure. Project Area special status plants and wildlife could be adversely affected by construction and operational activities that occur as a result of the Project. These activities include road, utility line, well and oil, and gas-related facility grading; staging; vehicular movement; construction; and oil and gas facility O&M, as more fully described in Chapter 3, Project Description. New land disturbance in locations occupied by special status plants and wildlife could result in both direct and indirect impacts to such species. New land disturbance outside of actively disturbed areas could reduce the amount of available habitat for one or more special status species within the Project Area. Oil and gas activities could also indirectly affect special status plants and wildlife by generating dust, emissions, noise, light, and unintentional spills or discharges; introducing invasive species; or increasing the risk of unauthorized vehicular use or other human activity that disturb occupied or suitable ~~species~~ special-status species habitats.

Page 4.4-204 of the DEIR, Section 4.4.4, *is revised as follows, as described in section 7.1.4 and in Response to Comment 0004-76 et al. of Section 7.2:*

MM 4.4-1 ~~With the exception of focused surveys that are seasonally restricted, special status wildlife surveys must be completed by a qualified biologist within a 30-day period prior to commencement of new ground disturbance construction activities. The purpose of the pre-disturbance~~ A qualified biologist shall conduct a biological

reconnaissance survey in potential special-status species habitat to advise the project proponent of potential project impacts, potential surveying needs, and advise on the need for focused special status surveys. Early consultation with United States Fish and Wildlife Service and California Department of Fish and Wildlife would confirm the biologist's advice and/or inform project proponents of additional recommendations. Based on the information gathered from the biological reconnaissance survey and any informal consultation with United States Fish and Wildlife Service and California Department of Fish and Wildlife, focused/protocol surveys shall be conducted by a qualified or permitted biologist (whichever is applicable) well in advance of ground disturbing activities to determine the presence/absence of sensitive species protected by state and federal Endangered Species Acts and potential project impacts to those species. The survey shall be conducted in accordance with the most current standard protocol of United States Fish and Wildlife Service and California Department of Fish and Wildlife. The purpose of focused/protocol surveys is to confirm the presence or absence of any species listed as threatened or endangered under the federal Endangered Species Act, threatened or endangered under the California Endangered Species Act, rare or endangered in the California Native Plant Protection Act, or designated as fully-protected in the California Fish and Game Code (collectively, "Protected Species"), and to confirm the presence or absence of any other species considered "sensitive" under California Environmental Quality Act ("Sensitive Species"), and to identify and implement feasible avoidance and minimization measures for such species. The surveys shall be conducted in accordance with all currently-applicable presence and absence survey and/or species protocols established by the United States Fish and Wildlife Service and the California Department of Fish and Wildlife ("Species Protocols"). In the absence of any approved protocols, the survey shall extend for a minimum of 250 feet from all areas where any ground disturbance activities would occur, provided that permission to access has been obtained. As an alternative to individual pre-disturbance surveys for each application, and after consultation with and concurrence by the California Department of Fish and Wildlife and the United States Fish and Wildlife Service, multiple parcels or areas of oil and gas production lands (including lands which may have multiple surface or mineral ownership) may be consolidated for the purpose of more efficiently managing pre-disturbance surveys and determinations regarding the absence of protected species in areas of proposed new ground disturbance activities. A biological monitor shall be present during ground-disturbing activities in project locations that have special-status species habitat or are adjacent to potential special-status species habitat. Within 30 days before any ground disturbing activities in special-status species habitat, a qualified biologist shall conduct a pre-disturbance survey to record existing conditions of the site, determine if conditions have changed since the reconnaissance or focused/protocol surveys were conducted, and to determine where sensitive species avoidance buffers will be established.

Page 4.4-204 of the DEIR, Section 4.4.4, *is revised as follows, as described in Section 7.1.4 and in Response to Comment 0004-78 et al. of Section 7.2:*

MM 4.4-2 No incidental take of any species listed as threatened or endangered under the federal Endangered Species Act, threatened or endangered under the California Endangered Species Act, rare or endangered in the California Native Plant Protection Act, or designated as fully-protected in the California Fish and Game Code (Protected Species) may occur unless the incidental take is authorized by applicable state and federal wildlife agencies in the form of a permit or other written authorization, an approved state or federal conservation plan, or in accordance with an approved regional plan such as the Draft Valley Floor Habitat Conservation Plan and/or Natural Community Conservation Plan.

Pages 4.4-204 through 4.4-205 of the DEIR, Section 4.4.4, *are revised as follows, as described in Section 7.1.4 and in Response to Comment 0004-81 et al. of Section 7.2:*

MM 4.4-3 ~~Exclusion barriers or~~Protective buffers ~~may~~ shall be used, where effective and feasible in the opinion and guidance of the qualified biologist, to avoid any unauthorized incidental take of Protected Species, and to minimize any incidental take of Sensitive Species, by separating the planned disturbance area from any locations where ~~pre-disturbance~~ biological reconnaissance surveys or previously conducted focused/protocol surveys, or pre-disturbance surveys have detected the presence of Protected Species or Sensitive Species. Protective buffers shall be delineated using brightly colored stakes and/or flagging or similar materials and remain until construction activities are complete, at which time of completion the buffers must be removed. ~~All buffers must extend for a minimum of 50 feet from the nearest point of disturbance unless a smaller avoidance buffer has been established by either the United States Fish and Wildlife Service or the California Department of Fish and Wildlife as the minimum to avoid unauthorized take of protected species, and the barriers must prevent the potential migration of wildlife into the construction area and unlawful incidental take of any Protected Species during ground disturbance activities.~~ If special-status plant or animal species are found adjacent to the project during biological surveys, protective buffers shall be established around active dens and/or burrows of special-status animal species, or populations of special-status plant species to avoid unauthorized take of protected species as listed in the table below. The ~~minimum~~ protective buffer distance shall be increased if required to avoid unauthorized incidental take of any Protected Species as determined by a qualified biologist. ~~Exclusion barriers,~~Protective buffer distances~~,~~ and other avoidance measures that may be implemented to avoid impacts to Protected Species or Sensitive Species must be consistent with the United States Fish and Wildlife Service and/or the California Department of Fish and Wildlife, and shall be implemented and overseen by ~~the~~ a qualified biologist.

Table
Disturbance Buffers for Sensitive Resources

Sensitive Resource	Buffer Zone from Disturbance (feet)
Potential San Joaquin kit fox den	50
Known San Joaquin kit fox den	100
Natal San Joaquin kit fox den	Contact California Department of Fish & Wildlife, United States Fish & Wildlife Service
Atypical San Joaquin kit fox den	50
Rodent burrows	50
Listed bird species active nests	0.5 mile
Burrowing owl burrow (breeding and non-breeding season)	Pursuant to California Department of Fish & Wildlife guidelines (see Table 4.4-85)
San Joaquin coachwhip, silvery legless lizard, coast horned lizard	30
American badger: Non-maternity dens Maternity dens	 50 200
Special-status plants	50

Pages 4.4-206 through 4.4-207 of the DEIR, Section 4.4.4, *are revised as follows, as described in Section 7.1.4 and in Response to Comment 0004-83 et al. of Section 7.2:*

MM 4.4-6 Any potential San Joaquin kit fox dens (as defined in United States Fish and Wildlife Service 2011) detected during ~~pre-disturbance~~ reconnaissance or focused/protocol surveys shall be reevaluated for species activity no more than 30~~14~~ days prior to the commencement of ground disturbance. Potential kit fox dens shall be marked and a 50-foot avoidance buffer shall be delineated using brightly colored stakes and flagging or similar materials to prevent inadvertent damage to the potential den. If a potential den cannot feasibly be avoided, the den may be hand excavated in accordance with the United States Fish and Wildlife Service *Standardized Recommendations for Protection of the Endangered San Joaquin Kit Fox Prior to or During Ground Disturbance* (United States Fish and Wildlife Service 2011). If species activity is detected, the location shall be identified as a "known" kit fox den in accordance with the U.S. Fish and Wildlife Service species guidelines (United States Fish and Wildlife Service 2011). A minimum 100-foot buffer from any disturbance area shall be maintained for known dens and a minimum 500-foot buffer from any disturbance area shall be maintained for natal dens. No excavation of a known or natal den shall occur without prior authorization

from the United States Fish and Wildlife Service and the California Department of Fish and Wildlife. For activities occurring on land covered under an approved ~~Habitat Conservation Plan~~federal and/or State incidental take authorization, the requirements set forth in those documents shall be implemented. Other standard measures to protect San Joaquin kit fox, including capping pipes, covering trenches, adding exit ramps to excavated areas, shall be implemented in accordance with MM 4.4-15~~19~~.

Page 4.4-207 of the DEIR, Section 4.4.4, *is revised as follows, as described in Section 7.1.4:*

MM 4.4-8 Pre-disturbance surveys for all sites located above 2,000 feet in elevation, or within 200 feet down gradient from the 2,000-foot elevation contour line, shall specifically survey for any golden eagle nests located within 2 miles of the site. If golden eagle nests are detected by the surveys, the qualified biologist shall conduct a nest-specific viewshed analysis. No disturbance may occur within 0.25 mile, or within 0.5 mile of the viewshed of an active golden eagle nest unless otherwise authorized by State and federal wildlife agencies. The United States Fish and Wildlife Service and California Department of Fish and Wildlife must be notified prior to the commencement of any disturbance activities within 1 mile of an active golden eagle nest to avoid golden eagle take.

Pages 4.4-207 through 4.4-208 of the DEIR, Section 4.4.4, *was revised as follows, as described in section 7.1.4 (however, note that this revision has now been reversed, as described in response to comment E-12 in section 12.3 and as shown in section 12.1.3 above and section 12.4 below):*

MM 4.4-9 All sites located above 2,000 feet in elevation, or within 200 feet down gradient from the 2,000-foot elevation contour line, shall implement the following measures to avoid and minimize potential adverse impacts to the California condor:

a. The site shall, at all times, be maintained to avoid any trash, debris, food sources and microtrash, such as bottle caps, that could be ingested by or attract California condor. Trash shall be disposed in animal-proof containers as required in BIO 4.4-19.

b. The Worker Environmental Awareness Program described in BIO MM 4.4-18 shall include information about microtrash and potential effects to California condor, and shall prohibit the disposal of trash (and microtrash) on the site of oil and gas activities.

c. If a condor is observed in a proposed construction site, all disturbance activities must immediately cease within 500 feet of the condor until the animal has moved from the site. If condor occurrence persists, the United States Fish and Wildlife Service and the California Department of Fish and Wildlife must be contacted to identify appropriate avoidance measures prior to initiating or resuming any disturbance activity.

d. All condor observations shall be reported within 24 hours to the United States Fish and Wildlife Service and the California Department of Fish and Wildlife.

e. All tanks, liquid storage facilities, and any open area containing water or other liquid materials, including drilling sumps, must be covered or otherwise shielded in a manner that prevents condor intrusion and potential entrapment.

f. No overhead transmission lines greater than 85 kV may be used at the site without the prior approval of the United States Fish and Wildlife Service and the California Department of Fish and Wildlife.

Pages 4.4-208 through 4.4-209 of the DEIR, Section 4.4.4, *are revised as follows, as described in Section 7.1.4 and in Response to Comment 0004-84 et al. of Section 7.2:*

MM 4.4-11 The following measures will be implemented to avoid take of blunt-nosed leopard lizard and to ensure protection of these animals during Project activities:

a. Project activities will avoid all potential burrows that may be occupied by blunt-nosed leopard lizards. Suitable burrows within and adjacent to potential habitat for the species should be avoided by a minimum distance of 50-feet in all areas where ground-disturbing Project activities will occur.

b. No more than one year prior to ground disturbing activities, focused surveys following current California Department of Fish and Wildlife and United States Fish and Wildlife protocols for detection of this species or other methods approved by both agencies shall be conducted in all potential blunt-nosed leopard lizard habitat within the work site and a 250-foot buffer area. If no individual blunt-nosed leopard lizards are observed during focused surveys, and surveys are current (e.g., completed in the same calendar year), then Project activities may proceed.

c. If blunt-nosed leopard lizards are detected during focused surveys, a blunt-nosed leopard lizard avoidance plan shall be prepared for the Project that will result in avoidance of incidental take of this species unless take is separately authorized under a Natural Communities Conservation Plan and appropriate federal authorization is obtained. At a minimum, the blunt-nosed leopard lizard avoidance plan shall be provided to the California Department of Fish and Wildlife and the County, and shall contain the following elements:

1. A Worker Environmental Awareness Program shall be implemented for all construction personnel before construction begins (see MM 4.4-18).

2. During periods that are optimal for blunt-nosed leopard lizard activity (early spring through late fall), a qualified biologist will be present during all ground disturbing activities. The qualified biologist will check the Project site(s) and access route(s) daily during the blunt-nosed leopard lizard active season to determine presence or absence of lizards in or near the work areas. Monitoring by a qualified biologist is not required during periods of inactivity (the winter season).

3. All open trenches or excavations shall be covered at the end of each workday or protected with the use of exclusion fencing to prevent wildlife entrapment. If an excavation is too large to cover, escape ramps shall be installed at an incline ratio of no greater than 2:1. All trenches and pipes

shall be inspected for the presence of wildlife each day prior to the commencement of work. If blunt-nosed leopard lizards are observed at the work site during construction, construction shall cease within a 250-foot radius and the United States Fish and Wildlife Service and the California Department of Fish and Wildlife shall be consulted to determine what additional measures would be necessary to prevent take of this species.

4. Offsite locations where blunt-nosed leopard lizards have been observed or are likely to occur shall be clearly marked to prevent workers from driving off the road and to prevent inadvertent destruction of burrows. Barriers, such as exclusionary fencing may be installed. All construction equipment and construction personnel vehicles will be checked prior to moving to ensure no blunt-nosed leopard lizard are under equipment/vehicles.
5. A speed limit of 10 miles per hour shall be posted and observed within 0.25 miles of any reported blunt-nosed leopard lizard observation.
6. Construction activities shall avoid burrows that may be used by blunt-nosed leopard lizards. Any location of proposed construction activity with potential to collapse or block burrows (i.e., stockpile storage, parking areas, staging areas, trenches) will be identified prior to construction in the blunt-nosed leopard lizard avoidance plan and approved by the qualified biologist. The qualified biologist may allow certain activities in burrow areas if the combination of soil hardness and activity impact is not expected to collapse burrows and no blunt-nosed leopard lizards have been found during pre-Project surveys in the impact area.
7. All individual blunt-nosed leopard lizards observed above-ground will be avoided. Any individual blunt-nosed leopard lizard that may enter the Project site(s) would be allowed to leave unobstructed, and on its own accord. If a blunt-nosed leopard lizard is detected during biological monitoring or observed at any other point, the California Department of Fish and Wildlife and the United States Fish and Wildlife Service shall be notified to determine what additional measures would be necessary to prevent take of the species.

Pages 4.4-210 through 4.4-211 of the DEIR, Section 4.4.4, *are revised as follows, as described in Section 7.1.4 and in Response to Comment 0004-85 et al. of Section 7.2:*

MM 4.4-12 The Applicant shall comply with the following:

a. Plant surveys for Protected Species and Sensitive Species must be completed by a qualified biologist during the appropriate blooming periods for species identification and detection. Plant surveys shall be conducted in accordance with all applicable protocols established by the United States Fish and Wildlife Service and the California Department of Fish and Wildlife for particular plant species ("Plant Survey Protocol"), and shall extend 50 feet from areas where any new disturbance would occur unless a greater survey distance is specified in the Plant Survey Protocol. All detected plant populations of Protected Species and Sensitive Species shall be identified in the field during the surveys with temporary flags or other appropriate materials to avoid and minimize impacts to the plant populations from any disturbance activities.

b. No incidental take or relocation of any plant listed under the federal Endangered Species Act, the California Endangered Species Act or the California Native Plant Protection Act may occur unless the incidental take is authorized by the United States Fish and Wildlife Service and/or the California Department of Fish and Wildlife in a permit or other authorization, or in an approved Habitat Conservation Plan or Natural Communities Conservation Plan. If ~~pre-construction~~focused plan surveys detect the presence of any ~~California Endangered Species Act P~~listed plant, the plant populations shall be buffered from disturbance activities by implementing applicable impact avoidance protocols established by the United States Fish and Widlife Service and/or the California Department of Fish and Wildlife unless incidental take authority is obtained. Projects covered under incidental take authority shall conduct activities in accordance with the take authorization. The California Department of Fish and Wildlife may be contacted to determine the appropriate buffer required to prevent incidental take of a ~~California Endangered Species Act~~listed p~~P~~lant if avoidance protocols have not been established for the species. The qualified biologist shall confirm that all applicable ~~California Endangered Species Act P~~listed plant buffers have been implemented prior to the commencement of any disturbance activity.

c. If any non-listed sensitive plant species are identified that may be impacted by new ground disturbing activities, populations must be avoided by a 50-foot buffer.

Page 4.4-211 of the DEIR, Section 4.4.4, *is revised as follows, as described in section 7.1.4 and in Response to Comment 0004-87 et al. of Section 7.2:*

~~**MM 4.4-13** No incidental take or relocation of any plant listed under the California Endangered Species Act may occur unless the incidental take is authorized by the California Department of Fish and Wildlife in a permit or other authorization, or in an approved Natural Communities Conservation Plan. If pre-construction surveys detect the presence of any California Endangered Species Act Plant, the plant populations shall be buffered from disturbance activities by implementing applicable impact avoidance protocols established by the California Department of Fish and Wildlife, unless incidental take authority is obtained. Projects covered under incidental take authority shall minimize disturbance in accordance with the take authorization. The California Department of Fish and Wildlife shall be contacted to determine the appropriate buffer required to prevent incidental take of a California Endangered Species Act Plant if avoidance protocols have not been established for the species. The qualified biologist shall confirm that all applicable California Endangered Species Act Plant buffers have been implemented prior to the commencement of any disturbance activity. If any non-listed sensitive plant species are identified that may be impacted by new ground disturbing activities, populations must be avoided by a 50-foot buffer.~~

Pages 4.4-212 through 4.4-214 of the DEIR, Section 4.4.4, *are revised as follows, as described in section 7.1.4 and in Response to Comment 0004-88 et al. of Section 7.2 (note that this measure has been further revised as shown in section 12.1.3 above and section 12.4.2 below):*

MM 4.4-15 The following additional measures shall be implemented to avoid and minimize potential significant adverse impacts to Protected and Sensitive Species:

a. All vehicles shall observe a 20-mile-per-hour speed limit in all areas of disturbance and on unpaved roads unless otherwise posted. Off-road traffic outside of designated access routes is prohibited. Speed limit signs shall be posted in visible locations at the point of site entry and at regular intervals on all unpaved access roads.

b. All disturbance activities, except emergency situations or drilling that may require continuous operations, shall only occur during daylight hours. Night time disturbance activity for drilling purposes shall use directed lighting, shielding methods, or reduced lumen intensity to avoid unnecessary visual disturbance to wildlife and to comply with applicable lighting mitigation measures.

c. All food-related trash items and all forms of microtrash, such as wrappers, cans, bottles, bottle tops, and food scraps shall be disposed of in closed, animal proof containers and removed daily from the site.

d. Excavations, spoils piles, access roadways, and parking and staging areas shall subject to dust control as set forth in the dust control mitigation measures.

e. The use of herbicides for vegetation control shall be restricted to those approved by the United States Fish and Wildlife Service and the California Department of Fish and Wildlife. No rodenticides shall be used on any site unless approved by the United States Fish and Wildlife Service, and the California Department of Fish and Wildlife, and shall observe label and other restrictions mandated by the United States Environmental Protection Agency, California Department of Food and Agriculture, and state and federal laws and regulations. For split estates, no herbicides for vegetation control may occur in Tier 2 areas without surface owner approval.

f. No plants or wildlife shall be collected, taken, or removed from the site or any adjacent locations except as necessary for Project-related vegetation removal or wildlife relocation by a qualified biologist and subject to all applicable permits and authorizations.

g. All open trenches or excavations shall be covered at the end of each workday to prevent wildlife entrapment. If an excavation is too large to cover, escape ramps shall be installed at an incline ratio of no greater than 2:1 to. All trenches and pipes shall be inspected for the presence of wildlife each day prior to the commencement of work.

h. To enable San Joaquin kit foxes and other wildlife to pass through the Project site, any perimeter fencing shall include a 4- to 8-inch opening between the

fence mesh and the ground or the fence shall be raised 4 inches above the ground except blunt-nosed leopard lizard exclusion fencing. The bottom of the fence fabric shall be knuckled (wrapped back to form a smooth edge) to protect wildlife.

i. All vertical tubes used in Project construction and chain link fencing poles, shall be temporarily or permanently capped to avoid the entrapment and death of special-status wildlife and birds. All pipes 1.5 inches or greater in diameter stored overnight on a project location must have end caps or other physical barriers that prevent wildlife from entering the pipe.

j. All dead or injured special status wildlife shall be left in place and reported to the United States Fish and Wildlife Service and the California Department of Fish and Wildlife within 48 hours of discovery for rescue or salvage. Discovery of state or federal listed species that are injured or dead shall also be managed consistent with regulatory requirements including being reported immediately via telephone and within 24 hours in writing, and with a copy to Kern County Planning and Community Development.

k. All drilling installations and operations will comply at all times with the applicable federal, State, county, and local law ordinances and regulations.

l. All activity shall use previously disturbed areas to the maximum extent feasible to minimize the amount of new disturbance.

m. Vehicle, equipment, and material storage must be limited to previously disturbed areas. No construction or operational materials may be placed or stored outside of the planned disturbance area or stockpiled for future disposal. All concrete and asphalt debris should be removed from the site for recycling or proper disposal.

n. No vehicles or construction equipment shall be parked within a wetland or waterbody/dry wash.

o. Tracked vehicles and other construction equipment must be washed or maintained to be weed-free prior to entering and working within areas of new disturbance.

p. All washing of trucks, paint, equipment, or similar activities should occur in areas where runoff is fully contained for collection and offsite disposal. Wash water may not be discharged from the site and shall be located at least 100 feet from any water body, or sensitive Biological Resources.

q. Locate all extra work areas (such as staging areas and additional spoil storage areas) at least 50 feet away from wetland boundaries or waterbody, except where the adjacent upland consists of cultivated or rotated cropland or other disturbed land.

r. All areas that must be avoided as result of the pre-disturbance surveys, and areas where new disturbance will occur, shall be clearly delineated by fencing or staking and flagging and/or rope or cord.

s. No firearms shall be allowed on any site.

t. No pets shall be allowed on any site.

u. No smoking may occur except in designated areas.

v. If ground disturbance is intended to be temporary and does not occur on cultivated and crop lands, perform topsoil segregation during construction activities to preserve the seed bank for restoration efforts. Store the segregated topsoil separate from the subsoil and restore segregated topsoil to its original location.

Pages 4.4-214 through 4.4-215 of the DEIR, Section 4.4.4, *are revised as follows, as described in section 7.1.4 and in Response to Comment 0004-92 of Section 7.2:*

MM 4.4-16 Ground disturbance shall be mitigated at a 1.0 to 1.0 ratio (one-acre of new disturbance shall require one-acre of mitigation) except in Tier 1 areas that contain existing disturbance of 70% or greater which shall be mitigated at a 1.0 to 0.5 ratio (one-acre of new disturbance shall require one-half acre of mitigation), for the land included in the Site Plan. This compensatory mitigation requirement does not apply to construction on ground for which compensatory mitigation has already been provided, or on ground that has been previously disturbed (e.g., cleared of vegetation for other oil and gas extraction uses, existing unpaved roads, and existing unvegetated well pads). Ground disturbance activities that are authorized by permits or other written authorizations approved by the United States Fish and Wildlife Service and the California Department of Fish and Wildlife, which include avoidance and compensatory mitigation acreage requirements, may be used to satisfy this County compensatory mitigation ratio. Compensatory mitigation shall be required for the actual acreage of ground disturbance documented during the site plan review and completion process. New disturbance mitigation may be satisfied by one or a combination of the following measures:

a. The recordation of a conservation easement or similar permanent, long-term conservation management agreement in a form acceptable to the County for land within the Project Area on land that has mitigation value. The easement lands may be owned by an Applicant or a third party under contract with an Applicant. Larger land areas may be placed under a conservation easement or similar agreement, and an Applicant may "draw down" the conserved land as needed to satisfy the acreage mitigation requirements for multiple site plan review conformity permits or other authorizations from the County for oil and gas activities.

b. Acquisition of land preservation credits from a mitigation bank located within the Project Area which is owned by the County, on other lands approved by the County, or on lands approved for mitigation or conservation purposes by

the United States Fish and Wildlife Service or the California Department of Fish and Wildlife.

c. Removal of legacy oil and gas equipment, inclusive of compliance with applicable legal requirements (e.g., well plugging and abandonment requirements under state or federal regulations), restoration of the surface grade to be consistent with surrounding lands, complete a reseeding effort using native species, and notification of the site owner (if not the Applicant) of the completion of the removal and grading restoration work.

d. Enhancement or restoration of existing habitat on lands already subject to a conservation easement or similar agreement, or which become subject to a conservation easement or similar agreement subsequent to the certification of this Environmental Impact Report, provided that such activities are covered in a permit or authorization, conservation plan, Habitat Conservation Plan, or Natural Community Conservation Plan, approved by the United States Fish and Wildlife Service or the California Department of Fish and Wildlife.

e. Payment of a biological resources mitigation fee for the acquisition and management of mitigation lands, legacy equipment removal, and/or land enhancement already subject to conservation easements or a similar agreements under the terms of any biological resource mitigation program that is adopted by Kern County and approved by the United States Fish and Wildlife Service or the California Department of Fish and Wildlife. The County shall coordinate with the United States Fish and Wildlife Service or the California Department of Fish and Wildlife to identify priority conservation areas and potential conservation partners and funding sources to increase the efficiency and effectiveness of mitigation fee expenditures.

Page 4.4-216 of the DEIR, Section 4.4.4, *second full paragraph, is revised as follows, as described in Response to Comment 0004-95 of Section 7.2:*

Potential impacts to sensitive natural communities in the Project Area were evaluated for each subarea and tier using the same methodology described for special status wildlife and plants in Threshold 4.4-1. The annual potential impacts to each community was estimated based on the acreage of each sensitive natural community and by assuming that the conservative annual disturbance projections in Table 4.4-71 would occur in each subarea and tier. The percentage of the total amount of each sensitive natural community in the Project Area that could be impacted each year, and over 25 years, was estimated from the results of the analysis. The location of sensitive natural communities in the Project Area is shown in Figure 4.4-4. As discussed in Section 4.4.1~~2~~, Environmental Setting, the sensitive natural communities identified within the Project Area include wetlands, water and other riparian habitat that are subject to state or federal permit requirements prior to physical disturbance, including but not limited to Section 1600 of the CFGC and the Clean Water Act 401 and 404.

Page 4.4-219 of the DEIR, Section 4.4.4, *is revised as follows, as described in Response to Comment 0002-128 of Section 7.2:*

MM 4.4-18 No land disturbance activity in any Sensitive Natural Community that requires a state or federal permit, including state or federally regulated wetlands and waters, shall occur unless the activity is specifically authorized by the issuance of permits or approvals as required by state and federal law. This provision is not intended to restrict survey activities or restrict permit approvals for such disturbance activities. However, no new wells, tanks, sumps or ponds shall be constructed within 50 feet of federal or state waters or wetlands.

Pages 4.4-223 through 4.4-224 of the DEIR, Section 4.4.4, *are revised as follows, as described in Response to Comment 0004-104 of Section 7.2:*

As discussed in Section 4.4.3, Regulatory Setting, the following HCPs have been adopted within, include portions of or are located in areas adjacent to the Project Area:

- Freeport-McMoRan Oil & Gas HCP
- Aera Coles Levee HCP (previously Arco Western Energy) HCP
- Chevron Pipeline HCP
- ~~California Aqueduct - San Joaquin Field Division HCP~~
- Kern County Waste Facilities HCP
- Pacific Gas and Electric (PG&E) San Joaquin Valley Operations and Maintenance Program HCP
- TUMSHCP
- Metropolitan Bakersfield HCP
- CRC Non-Unit HCP

Three HCPs have been proposed but have not yet been approved for the Project Area:

VFHCP.

Chevron North American Exploration and Production LHCP.

California Resources Corporation EHHCP.

California Aqueduct - San Joaquin Field Division HCP

Page 4.4-224 of the DEIR, Section 4.4.4, *fifth full paragraph, is revised as follows, as described in Response to Comment 0004-105 of Section 7.2:*

The Project Area also includes ~~five~~ four HCPs that do not cover oil and gas production activities: ~~the California Aqueduct - San Joaquin Field Division HCP,~~ the Kern County Waste Facilities HCP, the Pacific Gas and Electric Company San Joaquin Valley Operations and Maintenance Program HCP, the TUMSHCP, and the Metropolitan Bakersfield HCP. The original term of the Metropolitan Bakersfield HCP has expired, and a renewal process is underway. The Project is likewise not inconsistent with these ~~five~~ four HCPs that do not include oil and gas production as "Covered Activities."

Page 4.4-230 of the DEIR, Section 4.4.4, *second full paragraph, is revised as follows, as described in Response to Comment 0004-107 of Section 7.2:*

Future oil and gas exploration and production activities related to the proposed Zoning Ordinance amendment could contribute to a significant cumulative impact on Project Area biological resources because future use and development of federal, state and incorporated urban lands are not within the County's jurisdiction or control. Future land uses and development could affect biological resources in each of these jurisdictions and would be undertaken as independent actions with associated impacts, avoidance and minimization requirements, and compensatory mitigation, if required, under applicable federal, state, regional and local agency law.

Page 4.5-49 through 4.9-50, Section 4.5.4 *of the DEIR, is revised as follows, as described in section 7.1.4 (note that this measure has been further revised as shown in section 12.1.3 above and 12.4.2 below):*

MM 4.5-1 Prior to initiating ground disturbance activities for an activity for which a conformity review is required, the Applicant shall:

a. ~~Have~~ Provide an archival records search completed by a qualified archaeologist. This shall include an examination of the California Historical Resources Information Files at the Southern San Joaquin Valley Information Center, California State University, Bakersfield, and a search of the Native American Heritage Commission Sacred Lands Files, Sacramento. The Applicant may rely on a previously performed records search for subsequent ground disturbing activities.

b. If an application location has been previously surveyed and no cultural resources have been recorded on it, no further cultural resources studies shall be required.

c. Implement either:

1. If ~~an application~~a site plan ~~is within a section~~includes land that has experienced 100% of previous ground-surface disturbance, ~~as indicated by~~or is within a section with 300 or more existing oil wells or other agricultural, industrial or urban uses, and the records searches indicate that the parcel has been previously surveyed and no cultural or Native American resources are known on it, no further cultural resources studies shall be required. All other application locations shall be subject to intensive (100%) pedestrian ground-surface survey (Phase I survey/Class III inventory) by qualified archaeologists. The Applicant may rely on a previously performed ground surface survey for subsequent ground disturbing activities; or

2. If an application location has not been previously surveyed based on the records search information, an intensive (100%) pedestrian ground-

surface survey (Phase I survey/Class III inventory) by qualified archaeologists shall be required.

d. All prehistoric/Native American archaeological sites, whether identified during the records searches or during the intensive survey, shall be demarcated by a qualified archaeologist, fenced by the Applicant, and preserved in place.

e. Historical (Euro-American) archaeological sites that are potentially eligible for listing in the National Register of Historic Places shall be evaluated by a qualified archaeologist and must meet the requirements of the National Historic Preservation Act of 1966 in order to qualify. Qualifying sites, structures and equipment that are identified during the records search or field survey shall be fenced and preserved in open-space, removed and curated, or treated using appropriate data recovery procedures.

f. Historical (Euro-American) archaeological site types relating to oil and gas activities that have been determined Not Significant/Unique shall require no archaeological study or treatment.

g. All oil and gas industry employees conducting work in the area identified on the Conformity Site Plan shall complete Worker Environmental Awareness Program training including training dedicated to cultural resources protection.

Page 4.5-56, Section 4.5.4 of the DEIR, is revised as follows, as described in section 7.1.4:

MM 4.5-3 All ~~well~~ permits for new wells that use Enhanced Oil Recovery or Well Stimulation methods shall pay a mitigation fee of $50 per well shall be paid to the Buena Vista Museum to fund the continued education and curation of paleontological resources and provide educational support regarding the paleontological history of the region.

Pages 4.5-56 through 4.5-57, Section 4.5.4 of the DEIR, is revised as follows, as described in section 7.1.4 and response to comment 050-018 in section 7.2:

MM 4.5-4 In the event archaeological materials are encountered during the course of ground disturbance or construction, the Project operator/contractor shall cease any ground disturbing activities within 50 feet of the find. The qualified archaeologist shall evaluate the significance of the resources and recommend appropriate treatment measures. Per California Environmental Quality Act Guidelines Section 15126.4(b)(3), Project redesign and preservation in place shall be the preferred means to avoid impacts to significant historical resources. Consistent with California Environmental Quality Act Guidelines Section 15126.4(b)(3)(C), if it is demonstrated that resources cannot be avoided, the qualified archaeologist shall develop additional treatment measures in consultation with the County, which may include data recovery or other appropriate measures. The Planning and Community Development Department shall consult with appropriate Native American representatives in determining appropriate treatment for unearthed cultural

resources if the resources are prehistoric or Native American in nature. If after consultation it is deemed appropriate, archaeological materials recovered during any investigation shall be curated at an accredited curation facility. The qualified archaeologist shall prepare a report documenting evaluation and/or additional treatment of the resource. A copy of the report shall be provided to the Kern County Planning and Community Development Department and to the Southern San Joaquin Valley Information Center. In the event archaeological materials are encountered, in Tier 2 the surface owner shall be notified immediately.

Page 4.5-57, Section 4.5.4 of the DEIR, is revised as follows, as described in section 7.1.4 and response to comment 050-018:

MM 4.5-5 If human remains are uncovered during Project construction, the Applicant shall immediately halt all work, contact the Kern County Coroner to evaluate the remains, and follow the procedures and protocols set forth in Section 15064.4 (e)(1) of the California Environmental Quality Act Guidelines. The Kern County Planning and Community Development Department shall be notified concurrently. If the County Coroner determines that the remains are Native American, the Project proponent shall contact the Native American Heritage Commission, in accordance with Health and Safety Code Section 7050.5, subdivision (c), and Public Resources Code 5097.98 (as amended by Assembly Bill 2641). The Native American Heritage Commission shall designate a Most Likely Descendant for the remains per Public Resources Code 5097.98. Per Public Resources Code 5097.98, the applicant, in coordination with the landowner, shall ensure that the immediate vicinity, according to generally accepted cultural or archaeological standards or practices, where the Native American human remains are located, is not damaged or disturbed by further development activity until the ~~landowner has discussed~~discussion and ~~conferred~~ conference with the ~~most likely descendant regarding their recommendations~~Most Likely Descendant has occurred, if applicable, taking into account the possibility of multiple human remains. If the remains are determined to be neither of forensic value to the Coroner, nor of Native American origin, provisions of the California Health and Safety Code (7100 et. seq.) directing identification of the next-of-kin will apply. In the event human remains are uncovered, in Tier 2 the surface owner shall be notified immediately.

Page 4.6-19 through 4.6-20, Section 4.6.2 of the DEIR, is revised as follows, as described in response to comment 0002-166 of section 7.2:

Land subsidence of less than 1 foot from oilfield withdrawals is known to occur in a few isolated areas in southwest Kern County. Generally, the extent and rate of oil and gas extraction subsidence is significantly less than subsidence caused by groundwater use. In addition, a substantial amount of the material extracted by oil and gas activity includes briny water (commonly called "produced

water") that is re-injected into oil-bearing locations after the oil has been recovered (USDA-NRCS 2009). DOGGR monitors subsidence in oil and gas fields and regulates oil and gas withdrawal and re-pressurizing of each oilfield. If oilfield subsidence is observed, well operators are required to stabilize the ground by injecting additional produced water or reducing the volume of produced water being pumped during field operations.

Page 4.6-45 through 4.6-20, Section 4.6.3 of the DEIR, fourth full paragraph on page, is revised as follows, as described in response to comment 0002-168 of section 7.2:

Land Subsidence

Land subsidence is the gradual, local settling or sinking of the earth's surface with little or no horizontal motion. Subsidence is normally the result of gas, oil or water extraction (by various industries, including oil and gas, and agriculture, among others), hydrocompaction, or peat oxidation, not the result of landslide or ground failure. The southern part of the planning area has been undergoing gradual land subsidence, with up to 4 feet of subsidence over a 40-year period. Although subsidence is not considered a significant hazard, wells, foundations, and underground utilities may be damaged.

Pages 4.6-53 through 4.6-54, Section 4.6.4 *of the DEIR, is revised as follows, as described in section 7.1.2 and in Global Response 13, and responses to comments 0002-106 and 0002-169, in section 7.2 (note that this measure has been further revised as shown in section 12.1.3 above and 12.4.2 below):*

MM 4.6-1 Prior to beginning a ground disturbance activity, the Applicant shall comply with the following regulations (as applicable) and confirm compliance in its Site Plan Conformity Review application documentation:

a. Alquist-Priolo Earthquake Fault Zoning Act.

b. California Building Code.

c. Division of Oil Gas and Geothermal Resources regulations, as identified in the California Code of Regulations, Title 14, Division 2, Chapter 4, including regulations implementing Senate Bill 4 as applicable. If hydraulic fracturing is conducted for any well associated with the Site Plan Conformity Review, the Applicant shall comply with requirements to monitor the California Integrated Seismic Network for indication of an earthquake of magnitude 2.7 or greater for the period of 10 days following the end of hydraulic fracturing. The earthquake search radius shall be consistent with Division of Oil Gas and Geothermal Resources Senate Bill 4 regulations. The data will be submitted to Division of Oil Gas and Geothermal Resources for an evaluation of the risks and actions consistent with the Division of Oil Gas and Geothermal Resources Senate Bill 4 regulations. In approving a well stimulation treatment permit that would authorize, within an urban area (i.e., an area with a population over 50,000, as defined by the U.S. Census Bureau), the emplacement of well stimulation fluids into an oil or gas formation that has not been previously been subject to well stimulation activity, and/or into an oil or gas formation for which Division of Oil Gas and Geothermal Resources does not yet possess adequate information about formation

fracture geometries, Division of Oil Gas and Geothermal Resources shall impose a permit condition requiring that the applicant conduct ground monitoring to characterize as-built fracture geometries prior to, during, and post-hydraulic fracturing. Monitoring shall also be conducted during fracturing treatments by use of applicable microseismic fracture mapping, tilt measurements, tracers, or proppant tagging. Copies of ground monitoring records shall be provided to the County and Division of Oil Gas and Geothermal Resources for review and approval within 30 days of well stimulation treatment.

d. Additionally, the Applicant shall:

1. Avoid placement of structures intended for human occupancy on or within 50 feet of any active faults designated and mapped pursuant to the Alquist-Priolo Earthquake Fault Zoning Act where the fault breaks the surface.

2. Have a professional geologist prepare a fault rupture hazard evaluation according to guidelines in California Geological Survey Special Publication 42, 2007 for new developments with structures that are intended for human occupancy.

3. All Class II injection wells shall be authorized, and shall comply with all applicable legal requirements, Underground Injection Control Program Approval permit conditions, and be operated according to the California Code of Regulations Title 14 requirements, as described in the mitigation measures for Hydrology and Water Quality.

4. Ensure that active fault trace placement restrictions are in place for all permanent tanks and storage reservoirs used to store, treat, or transport hazardous materials or materials that are considered pollutants to surface water and groundwater, located in an Earthquake Fault Zone.

Ensure that all newly installed pipelines ~~designated for the transportation~~subject to 49 Code of ~~hazardous materials~~Federal Regulations (CFR) Parts 192 and 195, are engineered and constructed in compliance with the requirements of the pipeline safety regulations, ~~49 Code of Federal Regulations Parts 192 and 195.f)~~ as set forth by the Pipeline Hazardous Materials Safety Administration (PHMSA). All other newly installed pipelines that transport gas or hazardous liquids are designed to be constructed, tested operated and maintained in accordance with good oilfield practice and applicable standards set forth and approved by the State Oil and Gas Supervisor. Ensure that all new pipelines designated for or water used for fire suppression are engineered and constructed in compliance with the requirements of California Building Code Chapter 9, Fire Protection Systems, and the California Fire Code to address potential fault rupture displacements.

Pages 4.6-56 through 4.6-57, Section 4.6.4 of the DEIR, is revised as follows, as described in section 7.1.2:

MM 4.6-3 Operators shall avoid siting ~~structures~~ wells or accessory equipment and facilities on slopes greater than 30% unless the Applicant determines that mineral recovery is infeasible from a different location, and site-specific Professional Engineering certification is submitted concluding that the new equipment will not cause landslides.

Pages 4.7-99, Section 4.6.4 of the DEIR, is revised as follows, as described in section 7.1.2 and in response to comment 0001-014 of section 7.2:

MM 4.7-4 Each Applicant shall offset all greenhouse gas emissions not covered by the Cap-and-Trade program or other mandatory greenhouse gas emission reduction measures through Applicant reductions of greenhouse gas emissions as verified by ~~the San Joaquin Valley Air Pollution Control District~~Kern County, through acquisition of offset credits from the California Air Pollution Control Officers Association Exchange Register or other third party greenhouse gas reductions ~~as~~, with consultations as to the validity of methodology for calculating reductions verified by the San Joaquin Valley Air Pollution Control District and accepted by Kern County, or through inclusion in an Emission Reduction Agreement, to offset Project-related greenhouse gas emissions that are not included in the Cap-and-Trade program to assure that no net increase in greenhouse gas emissions from the Project.

Page 4.8-1, Section 4.8.2 *of the DEIR, fourth paragraph on the page, is revised as follows, as described in responses to comments 0005-06 and 0005-07 in Section 7.2:*

A hazardous material is any substance that, because of its quantity, concentration, or physical or chemical properties, may pose a hazard to human health and the environment.

Section 25316 of the Health and Safety Code defines "hazardous substance" to mean:

(a) Any substance designated pursuant to Section 1321(b)(2)(A) of Title 33 of the United States Code.
(b) Any element, compound, mixture, solution, or substance designated pursuant to Section 102 of the federal act (42 U.S.C. Section 9602).
(c) Any hazardous waste having the characteristics identified under or listed pursuant to Section 6921 of Title 42 of the United States Code, but not including any waste the regulation of which under the Solid Waste Disposal Act (42 U.S.C. Section 6901 et seq.) has been suspended by act of Congress.
(d) Any toxic pollutant listed under Section 1317(a) of Title 33 of the United States Code.
(e) Any hazardous air pollutant listed under Section 7412 of Title 42 of the United States Code.
(f) Any imminently hazardous chemical substance or mixture with respect to which the Administrator of the United States Environmental Protection Agency has taken action pursuant to Section 2606 of Title 15 of the United States Code.
(g) Any hazardous waste or extremely hazardous waste as defined by Sections 25117 and 25115, respectively, unless expressly excluded.

Pursuant to Health and Safety Code Section 25501(n)(1):

'Hazardous material' means a material listed in paragraph (2) that, because of its quantity, concentration, or physical or chemical characteristics, poses a significant present or potential hazard to human health and safety or to the environment if released into the workplace or the environment, or a material specified in an ordinance adopted pursuant to paragraph (3).

(2) Hazardous materials include all of the following:

(A) A substance or product for which the manufacturer or producer is required to prepare a material safety data sheet pursuant to the Hazardous Substances Information and Training Act (Chapter 2.5 (commencing with Section 6360) of Part 1 of Division 5 of the Labor Code) or pursuant to any applicable federal law or regulation.

(B) A substance listed as a radioactive material in Appendix B of Part 30 (commencing with Section 30.1) of Title 10 of the Code of Federal Regulations, as maintained and updated by the Nuclear Regulatory Commission.

(C) A substance listed pursuant to Title 49 of the Code of Federal Regulations.

(D) A substance listed in Section 339 of Title 8 of the California Code of Regulations.

(E) A material listed as a hazardous, as defined by Section 25115, 25117, and 25316.

(3) The governing body of a unified program agency may adopt an ordinance that provides that, within the jurisdiction of the unified program agency, a material not listed in paragraph (2) is a hazardous material for purposes of this article if a handler has a reasonable basis for believing that the material would be injurious to the health and safety of persons or harmful to the environment if released into the workplace or the environment, and requests the governing body of the unified program agency to adopt that ordinance, or if the governing body of the unified program agency has a reasonable basis for believing that the material would be injurious to the health and safety of persons or harmful to the environment if released into the workplace or the environment. The handler or the unified program agency shall notify the secretary no later than 30 days after the date an ordinance is adopted pursuant to this paragraph.

Under Title 22 of the California Code of Regulations (CCR), the term "hazardous substance" refers to both hazardous materials and hazardous wastes. Both of these are classified according to four properties: (1) toxicity; (2) ignitability; (3) corrosiveness; and (4) reactivity (CCR Title 22, Chapter 11, and Article 3). A hazardous material is defined in CCR, Title 22 as:

Page 4.8-3, Section 4.8.2 of the DEIR, third paragraph on the page, is revised as follows, as described in response to comment 0005-009 in Section 7.2:

A typical tanker truck is able to transport 9,000 gallons of crude oil. The transportation of crude oil via tanker truck is regulated by the CHP ~~California Department of Transportation (Caltrans)~~ and U.S. Department of Transportation (USDOT) motor carrier regulations.

Page 4.8-3, Section 4.8.2 of the DEIR, fourth paragraph on the page, is revised as follows, as described in responses to comment 0005-010 in Section 7.2:

> Crude oil is transported from the Project Area to refineries via pipeline. Refineries are located throughout the state including within the Project Area. Figure 4.8-1 illustrates the locations that transport crude oil and refineries where it could be processed. Inland California crude oils are typically first piped to local refineries in Bakersfield and Santa Maria due to their proximity. The balance of the inland crude oils are piped to Northern and Southern California refineries (Sheridan 2006). Transmission of hazardous materials via pipeline in the state is regulated by the California State Fire Marshall, Pipeline Safety Division and the USDOT.

Pages 4.8-6 and 4.8-7 of the DEIR, Section 4.8.2, final paragraph on Page 4.8-6, is revised as follows, as described in response to comment 0003-121 in Section 7.2:

> Acid-based WST operations as defined by SB 4 use either hydrochloric acid or hydrofluoric acids and mud acids. ~~Flowback fluids, including produced water and oil, are sent to production facilities for treatment, after which some flowback waters are disposed of in injection wells or through evaporation and percolation ponds.~~ Flowback fluid from a well that has undergone stimulation treatment is sent to a production facility where it is comingled with produced water that is typically sent to Class II injection wells. Some operators transport frack flowback fluid to a commercial Class II injection disposal well in the South Belridge Field that is permitted by the DOGGR. Frack flowback fluid discharge to ponds is prohibited as of July 1, 2015 as per DOGGR regulation. Some of the same chemicals used in acid-based WST are also used in non-SB 4 routine maintenance activities, though at reduced volumes that do not trigger the application of SB 4. Hydraulic fracturing uses a variety of hazardous and nonhazardous materials. The materials used for hydraulic fracturing vary from company to company and field to field. Table 4.8-3 lists the calculated total weights of the hydraulic fracturing fluid components used in greatest quantity and those with the highest toxicity in Kern County over the three-year period of available data. To determine the quantities of hazardous and nonhazardous compounds used in hydraulic fracturing in Kern County, estimates were calculated based on component concentrations and water volumes used by oil and gas applicants in Kern County as reported on their voluntary well disclosure forms obtained at https://fracfocus.org/, and accessed on January 28, 2015 (Fracfocus 2015).

Page 4.8-13 of the DEIR, Section 4.8.2, final paragraph on page, is revised as follows, as described in response to comment 0005-011 in Section 7.2:

> Under this Project, an estimated 267 pounds of classified waste would be generated per well drilled in Kern County. The actual amount will depend on the depth of the well. As discussed in the Regulatory Setting section, U.S. Environmental Protection Agency (EPA) regulations exempt drilling fluids, produced waters, and other wastes associated with the exploration, development, or production of crude oil and natural gas (oilfield wastes) from hazardous waste requirements under the Resource Conservation and Recovery Act (RCRA). ~~California regulations exempt oilfield wastes from being designated a California Non-RCRA hazardous waste based on toxicity characteristics. However, California did not adopt the federal exemption and does not offer a blanket exemption~~

~~from state hazardous waste requirements.~~ California did not adopt the federal exemption for wastes generated by oil and gas production. As discussed in the Regulatory Setting section, wastes exempted under RCRA are not exempt under California law if they either are listed as a hazardous waste in federal or state regulations or exhibit a hazardous characteristic such as ignitability, corrosivity, reactivity, or the California toxicity characteristic. However, wastes exempted under RCRA that are hazardous only due to the federal characteristic of toxicity as set forth in section 66261.24(a)(1), title 22, of the California Code of Regulations are also exempt in California. Oifield wastes in California may be considered state hazardous waste and potentially subject to regulation, depending on how they are managed. The generator of the waste has an obligation to properly characterize the waste, either based on generator knowledge of the waste stream or waste-generator process, or by testing representative samples of the waste.

Page 4.8-14 of the DEIR, Section 4.8.2, beginning at the final paragraph on the page, is revised as follows, as described in response to comment 0005-013:

Produced Water

~~Drilling for oil and gas in California yields a mixture of oil, gas, and water from the formation; the water is separated from the oil and gas and stored in tanks and pits. This water is called "produced water" and is usually very brackish and unsuitable for human use. The water is commingled naturally in the same zone with the oil and natural gas. Produced water is brought up from the formation during oil or gas production and is not considered a hazardous waste. Because it was commingled with hydrocarbons in the formation, the water typically contains chemicals associated with the formations, such as salts, oils and greases, inorganic and organic chemicals, and naturally occurring radioactive material, that exceed state and federal standards for drinking water.~~

Drilling for oil and gas yields a mixture of oil, gas, and water from the target formation. In California. the water fraction termed 'produced water' comprises roughly 90% of the mixture, and is separated from the oil and gas and stored in tanks and pits. The produced water typically contains a high degree of salinity and low levels of oils, greases and other organic and inorganic chemicals, which can include low ievels of naturally occurring radioactive materials (NORMs), and in some cases low levels of arsenic. The salinity and other pollutants render produced water unsuitable as drinking water and in some cases unsuitable for other uses such as agricultural. Past testing of produced water from conventional drilling operations has found the water not to be hazardous waste.

Produced water is managed in a number of ways, including reinjection for disposal or reuse for other purposes, such as steam generation, to support oil and gas production operations. In standard reinjection operations, injection wells may be located within the oilfield. The oil is separated from the water and the water is reinjected into the same formation from which it was originally recovered. In other instances, the produced water may be trucked from treatment tanks onsite to commercial injection facilities located apart from the oilfield operations.

Produced water may also be transported, via truck or pipeline to existing wastewater treatment facilities permitted to receive production water for disposal. Produced water collected in tanks is typically re-used for further extraction purposes, stored in surface impoundments where it percolates

into groundwater and/or evaporates, or disposed of by injection well. The percolation ponds operate under WDRs issued by CVRWQCB. Some produced water requires treatment prior to disposal, and some produced water is treated and reclaimed for other purposes, as discussed further in Chapter 3, Project Description, Section 4.9, Hydrology and Water Quality, and Section 4.17, Utilities and Service Systems.

Produced water must be managed in compliance with applicable laws and regulations including hazardous waste laws and regulations that obligate generators of waste to properly manage hazardous waste. Under California hazardous waste regulations, it is the generator's responsibility to determine whether waste that it generates is hazardous. 22 Cal. Code Regs. 66260.200(c). Assuming the waste is not otherwise excluded or exempted, and is not listed as a hazardous waste, the regulations provide for two primary means by which generators may make hazardous waste determinations: generator knowledge and analytical testing. 22 Cal. Code Regs. 66262.11(c). To make a hazardous waste determination based on generator knowledge, the generator must obtain enough information to facilitate making a proper characterization of the waste. If the generator does not have sufficient information to serve as a reasonable basis upon which to characterize using process knowledge, the generator must perform analytical testing to accurately characterize the waste. Fish bioassay testing is one of the methods set forth in 22 Cal. Code Regs. 66261.24(a) for determining whether a waste is hazardous for the toxicity characteristic.

Page 4.8-15 of the DEIR, Section 4.8.2, third paragraph on page, is revised as follows, as described in response to comment 0002-171 in Section 7.2:

For WSTs, once the hydraulic fracturing procedure is completed, pumping is initiated to ~~fluid flow~~ reverse~~s~~ the fluid flow and ~~the well is~~ "clean~~ed~~ up" the well by pumping ~~by allowing~~ oil and gas, produced water, base fluids, and excess proppant ~~to flow~~ back through the well to the surface. This process and the returned fluids are referred to as "flowback." Flowback may contain only a portion of the water originally used, as well as the same materials as were used in the fracturing fluids and naturally occurring constituents from the formation. Some materials in the fracturing fluids are consumed in the well (e.g., strong acids) or react during the fracturing process to form different chemicals (e.g., polymer precursors) (NYDEC 2011). Flowback may also be oil and gas and the associated produced water.

Page 4.8-23 of the DEIR, Section 4.8.2, top of page, is revised as follows, as described in respnse to comment 0003-024 in Section 7.2:

A March 2015 report by the California Environmental Protection Agency (CalEPA) found that underground injection wells had been discharging to aquifers that met the exemption criteria for Underground Sources of Drinking Water (USDWs), but had not been exempted by EPA in accordance with applicable requirements and thus remained classified as USDWs. In Kern County, wells in this category include 1,721 wells used for enhanced oil recovery in active hydrocarbon production zones and 388 disposal wells in the Project Area (CalEPA 2015; DOGGR 2015). DOGGR, in collaboration with the State Water Resources Control Board (SWRCB) is conducting a statewide analysis of all injection operations that were permitted outside of the aquifer exemption

boundaries established in the 1980s. Operators with wells in these areas have been directed to prepare technical and geologic reports validating that the aquifers qualify for exemption. The reports will be used to determine where the exemption boundaries from the 1980s need to be updated. DOGGR has adopted emergency regulations prescribing a timeline by which injection into nonexempt aquifers must cease unless, based on the review of the technical reports and other information, the EPA approves exemptions for these aquifers. As of March 2015, 23 injection wells in the Project Area were either ordered shut in or received operator permit relinquishments, ~~to cease operations~~ while the review was ongoing due to proximity to ~~drinking or agricultural~~ water supply~~ies~~ wells. No chemical contaminants related to underground injection has been detected in the water supply wells tested thus far by the CVRWQCB. ~~Based on statements published by the agencies, no contamination or adverse impacts to groundwater was observed from the operation of the 23 wells, and no contamination of water used for drinking or agricultural purposes related to underground injection by the oil and gas industry has been detected in testing of water supply wells by the SWRCB.~~ DOGGR and the SWRCB completed initial review of the 176 ~~higher~~ priority injection wells in May 2015 and SWRCB is awaiting additional information ~~test data~~ before making a determination as to whether to seek shut-in of additional wells before the October 15, 2015, compliance date specified in the emergency regulations (DOGGR 2015). Refer to Section 4.9, Hydrology and Water Quality, for more information.

Page 4.8-25, Section 4.8.2, of the DEIR, first full paragraph, is revised as follows, as described in response to comment 0003-011 in Section 7.2:

Twenty facilities in the Project Area have at one time been RCRA hazardous waste facilities, two have operating permits, and six are undergoing case closure. Eight of the 20 facilities are closed, but two of the eight have land restrictions. Two facilities have post closure permits. Two facilities are classified as non-operating. There are three non-RCRA hazardous waste sites; two are closed and one is undergoing closure. There are 21 corrective action sites; five are active; three have certified land-use restrictions; one has been referred to the EPA, three were referred to the CVRWQCB, one was referred to the Site Mitigation and Brownfields and Reuse Program (SMBRP); and six require no further action or no action (California DTSC 2015).

Page 4.8-44, Section 4.8.3, of the DEIR, third paragraph, is revised as follows, as described in response to comment 0005-015 in Section 7.2:

Whether a material is deemed a hazardous material and/or a hazardous waste determines which state regulation will apply to it. According to Health and Safety Code § 25124, materials become waste when the material is disposed of, burned or incinerated, or accumulated, stored or treated before or in lieu of being disposed of, burned or incinerated, or when the material is recyclable but not managed as provided in Health and Safety Code sections 25143.2 and 25143.9. Recyclable materials that are managed as provided in Health and Safety Code § 25143.2 and 25143.9 are excluded from classification as waste. A hazardous waste is a waste that because of its quantity, concentration, or physical, chemical, or infectious characteristics may either:

Pages 4.8-48 through 4.8-49, Section 4.8.3, of the DEIR, final paragraph on Page 4.8-48, is revised as follows, as described in responses to comments 0003-026 and 0003-027 in Section 7.2:

> The Porter-Cologne Act gives the CVRWQCB the authority to regulate discharges of waste to land in Kern County. The CVRWQCB has established waste classifications, site classifications, and WDRs. The CVRWQCB implements the regulations through issuance of WDRs and general orders for the waste management unit. Waste management units, permitted by the CVRWQCB for the E & P industry, include evaporation ponds, percolation ponds, and sumps. As discussed in Section 4.9, Hydrology and Water Quality, the discharge of drilling mud, water and soil cuttings to drilling mud pits are low-threat discharges regulated under State Water Resources Control Board General Order 2003-0003-DWQ ~~drilling muds and boring wastes associated with oil and gas development currently are regulated under SWRCB General Order 2003-0003-DWQ which addresses low-threat discharges to land~~. ~~The CVRWQCB staff has indicated it intends to prepare General WDRs for drilling sumps, but has not yet proposed tentative or final WDRs. If adopted, such WDRs rather than the SWRCB General Order would regulate the evaporation ponds, percolation ponds, and/or sumps covered by the WDRs.~~CVRWQCB Staff have previously indicated that a general order may be prepared that regulates the discharge of drilling mud and cuttings to drilling mud pits when drilling wells. If adopted, the CVRWQCB General Order for low-threat discharges to drilling mud pits would replace coverage under the State Water Resources Control Board General Order.

Page 4.8-49, Section 4.8.3, of the DEIR, third full paragraph, is revised as follows, as described in response to comment 0004-108 in Section 7.2:

> The Act was amended in 2014 by Senate Bill 861 to expand application of its provisions to all waters of the state, and not solely coastal and marine waters. The bill requires CDFW-OSPR to amend the state's oil spill contingency plan to provide for the best achievable protection of all state waters, and to submit the plan to the governor and the legislature on or before January 1, 2017. The amendments also expand the fee requirements under the Act by deleting a provision that would have reduced the oil spill prevention and administration fee, and also deleting a fee exception for independent crude oil producers. The bill also imposes the oil spill prevention fee on pipeline operators transporting petroleum products into the state by means of a pipeline operating across, under, or through any waters of the state. The amendments also impose the fee on persons owning crude oil or petroleum products at the time the crude oil or petroleum products are received at a refinery by any mode of delivery that passed over, across, under, or through waters of the state, whether from within or outside the state. Prior law imposed the fee only on crude oil arriving at a marine terminal via tanker. SB 861 also authorized the Administrator of the Department of Fish and Wildlife's Office of Spill Prevention and Response (OSPR) to develop emergency regulations to begin implementation of the Statewide Oil Spill Prevention and Response Program. As of September 4, 2015, the emergency regulations addressing Inland Production Facility Contingency Plans, Certificates of Financial Responsibility, and Drills and Exercises have been approved by the Office of Administrative Law. These emergency regulations now require certain inland production facilities to submit an Oil Spill Contingency Plan to OSPR and to demonstrate the financial ability to pay for costs and damages caused by a spill, and to begin a drills and exercise program.

Page 4.8-53, Section 4.8.3, of the DEIR, top of page, is revised as follows, as described in response to comment 0003-028 of Section 7.2:

~~State and federal authorities regulate the subsurface injection of waste. The Porter Cologne Act regulates subsurface injection discharges that could affect the quality of "waters of the state" and requires dischargers to file a Report of Waste Discharge with the local Regional Board and comply with issued WDRs (WZI 2014a).~~ An operator who proposes to discharge produced water into a Class II injection well is not required to file a Report of Waste Discharge with, or obtain Waste Discharge Requirements from, the CVRWQCB. Prior to the start of injection, an operator must obtain a permit from DOGGR authorizing the proposed subsurface injection activity. DOGGR may not issue a permit for underground injection into any underground source of drinking water that has not been formally exempted by the U.S. Environmental Protection Agency or that could adversely affect current or probable future beneficial uses of groundwater. State Water Board and/or CVRWQCB staff review technical information submitted by the operator to DOGGR and provide comments to DOGGR about the proposed injection project as related to the protection of water quality.

Page 4.8-53, Section 4.8.3 of the DEIR, second paragraph on the page, is revised as follows, as described in response to comment 0005-016 of Section 7.2:

The federal SDWA regulates underground injection to protect usable drinking water supplies from contamination. States can apply to the EPA to regulate this program within their own boundaries. For wells associated with oil and gas production (referred to as "Class II" wells), California has a EPA-approved UIC program. DOGGR administers the Class II UIC program pursuant to a "Primacy Agreement and Memorandum of Understanding" with the EPA that was established in 1983. The current status and recent developments regarding the Class II UIC program administered by DOGGR are discussed below and in Section 4.9, Hydrology and Water Quality. For classes of wells other than Class II, California does not have an EPA-approved UIC program and EPA Region IX administers the UIC program directly (WZI 2014a). DTSC regulates injection of hazardous wastes into underground injection wells pursuant to the Toxic Injection Well Control Act of 1985 (Health & Safety Code § 25159.10 et seq.). This Act exempts Class II injection wells regulated by DOGGR and which are in compliance with DOGGR's regulations and counterpart federal regulations.

Page 4.8-54, Section 4.8.3 of the DEIR, first full paragraph on page, is revised as follows, as described in response to comment 0003-011 of Section 7.2:

In 1998 under Assembly Bill 1376 (Bustamante), the DOGGR, CVRWQCB, and California Department of Fish and Game established the "field rule" for oil spill reporting in the San Joaquin Valley. The threshold for reporting in the San Joaquin Valley is:

- All spills of five barrels of crude oil or more unless the spill is within containment;
- All spills of 10 barrels or more within containment; and
- Any spill of one barrel of oil or more to land or any amount that causes a sheen on the water under the following conditions:

- Any lease or site without appropriate or adequate containment as required by Subchapter 2, Section 1750 through 1779 of the CCR or without a current oil spill contingency plan,
- Urban areas,
- Into waters of the state or any place where the spill can pass into waters of the state, and
- Any field or area designated specifically by DOGGR, DFW, or CVRWQCB (DOC 1998).

Page 4.8-77, Section 4.8.4 of the DEIR, second full paragraph, is revised as follows, as described in response to comment 0003-011 of Section 7.2:

Further, all applicants applying to conduct a defined well stimulation operation would be required to store and manage hydraulic fracturing fluids in compliance with all applicable requirements of the CVRWQCB, the DTSC, the Air Resources Board, the Air Pollution Control District, the CUPA, and any other state or local agencies with jurisdiction over the location of the well stimulation activities. In addition, the Applicant would be required to adhere to Storage and Handling of WST Fluids and Wastes regulations that require that fluids be stored with secondary containment, with certain exceptions. The Applicant must have a Spill Contingency Plan that accounts for all production facilities outside of secondary containment and include specific steps to be taken and equipment available to address a spill outside of secondary containment. In addition, the Applicant would have to comply with testing, inspection, and maintenance requirements for production facilities containing WST fluids. All fluids must be accounted for in the operator's Spill Contingency Plan, cannot be stored in containers and shall not be stored in sumps or pits. If an unauthorized release occurs, the Applicant must immediately implement its Spill Contingency Plan; notify the appropriate response entities for the location and the type of fluids involved, as required by all applicable federal, state, and local laws and regulations; and perform clean up and remediation of the area, and dispose of any cleanup or remediation waste, as required by all applicable federal, state, and local laws and regulations. In addition, the Applicant would have to report the release within five days.

Page 4.8-81 of the DEIR, Section 4.8.4, is revised as follows, as described in response to comment 0005-018 of Section 7.2:

An estimated 1,610 pounds of Non-RCRA drilling wastes, including drilling muds, drill cuttings, wash water, and other related waste, would be generated per well drilled in in Kern County. The actual amount will depend on the depth of the well. Such wastes may be regulated as hazardous waste under California law, as discussed in subsection 4.8.2. Wastes, such as construction material and other solid wastes, are discussed in Section 4.17, Utilities and Service Systems.

Page 4.8-82 of the DEIR, Section 4.8.4, is revised as follows, as described in response to comments 0003-029 and 0005-019 of Section 7.2:

Flowback fluid from WST operations ~~is typically~~ has historically been managed through the

oilfield~~'s~~ oil and gas and produced water handling system, which would pipe the flowback fluid directly into these systems. Once it ~~i~~was commingled with other fluids, separated, and treated, the spent acid, sediment, and, in some cases, the produced water were~~are~~ disposed of using the common disposal practice of that field. DOGGR's Final SB 4 WST Regulations (July 2015) now require that flowback fluid and produced water from a well that has undergone WST be stored in compliance with secondary containment requirements as outlined in Section 1786 of those regulations.~~Any oil that is collected as part of the flowback is sent through the production facility. As discussed in Section 4.9, Hydrology and Water Quality, fluid disposal also could occur through waste injection wells or percolation ponds.~~

Produced water and flowback fluid from WST operations must be managed in compliance with applicable laws and regulations including hazardous waste laws and regulations that obligate generators of waste to properly manage hazardous waste. Under California hazardous waste regulations, it is the generator's responsibility to determine whether waste that it generates is hazardous. 22 Cal. Code Regs. 66260.200(c). Deliberately mixing any flowback fluid that is determined to be hazardous waste with non-hazardous produced water for dilution purposes would constitute "treatment" of hazardous waste requiring authorization from the Department of Toxic Substances Control (DTSC). DTSC is in the planning stages of a new waste study of produced water and flowback fluid at WST operations.

Page 4.8-83 of the DEIR, Section 4.8.4, is revised as follows, as described in Section 7.1.4 and in responses to comments 0044-262 and 0050-20 of Section 7.2:

MM 4.8-1 The Applicant shall provide a comprehensive Worker Environmental Awareness Program to the County with its first Site Plan Conformity Review permit application in each calendar year. The program shall include all training requirements identified in Applicant Best Management Practices and mitigation measures, and include training for all field personnel (including Applicant employees, agents and contractors). The Worker Environmental Awareness Program shall include protocols and training for responding to and handling of hazardous materials and hazardous waste management, and emergency preparedness, release reporting, and response requirements. In Tier 2, the Worker Environmental Awareness Program shall be provided to the surface owner at the time of the application pathway process so the surface owner may educate employees as well.

Pages 4.8-84 through 4.8-85 *of the DEIR, Section 4.8.4, is revised as follows, as described in Section 7.1.4 and in response to comments 0002-043, 0002-133, and 0005-021 of Section 7.2 (note that this measure has been further revised as shown in section 12.1.3 above and 12.4.2 below):*

MM 4.8-3 The Applicant shall implement the following practices:

a. Construction activities shall be conducted to allow for easy clean-up of spills.

Construction crews shall have sufficient tools, supplies, and absorbent and barrier materials to contain and recover spilled materials.

b. Fuels and lubricants shall be stored only at designated staging areas. Fuel and lubricant tanks shall have appropriate secondary spill containment (e.g., curbs). Compliance with laws and regulations is required, including compliance with hazardous materials and hazardous waste storage laws, as applicable.~~Fuels and lubricants shall be stored only at designated staging areas. Fuel and lubricant tanks shall have appropriate secondary spill containment (e.g., curbs).~~

c. Storage of fuel and lubricants in the staging area shall be at least 100 feet away from the edge of water bodies. Refueling and lubrication of equipment shall be restricted to upland areas at least 100 feet away from stream channels and wetlands.

d. Any fuel truck shall carry an oil spill response kit and spill response equipment at all times.

e. ~~Applicants shall be required to perform all routine equipment maintenance at the well pad,~~ or other suitable locations (i.e., maintenance yards), and promptly collect and lawfully dispose of wastes ~~at an authorized recycling, treatment or disposal facility~~ in compliance with existing regulatory requirements.

f. Berms and/or dikes (secondary containment) shall be constructed around the permanent above-ground bulk tanks and the foundations shall be installed with a passive leak detection system, so that potential spill materials shall be contained and collected in specified areas isolated from any water bodies. Tanks shall not be placed in areas subject to periodic flooding or washout. Compliance with laws and regulations is required, including compliance with hazardous materials and hazardous waste storage laws as applicable, including for secondary containment, such as Division of Oil Gas and Geothermal Resource regulation (Title 14, C,C.R. § 1773.1), which requires secondary containment in "an engineered impoundment such as a catch basin, which can include natural topographic features, that is designed to capture fluid released from a production facility."

g. A sufficient supply of sorbent and barrier materials shall be maintained on construction sites~~,~~ consistent with the type and ~~sorbent~~ level of construction acitivies. Sorbent and barrier materials shall also be utilized to contain runoff from contaminated areas where appropriate.

    1. ~~Shovels and drums shall be stored at each well pad or~~be readily available. If small quantities of soil become contaminated, hand tools such as shovels or other appropriate tools, shall be used to collect the soil and the material shall be stored in ~~55 gallon~~storage drums. Large quantities of contaminated soil may be bio-remediated on-site or at a designated remediation facility, subject to government approval, or collected utilizing heavy equipment,

and stored in drums or other suitable containers prior to disposal. Should contamination occur adjacent to staging areas as a result of runoff, shovels and/or heavy equipment shall be utilized to collect the contaminated material. Contaminated soil shall be disposed of in accordance with state and federal regulations.

2. Above-ground tanks, valves and other equipment shall be visually inspected monthly and when the tank is refilled. Inspection records shall be maintained. Applicants shall periodically check tanks for leaks or spills.

3. Drain valves on ~~temporary~~ all tanks shall be locked to prevent accidental or unauthorized discharges from the tank.

4. Equipment maintenance shall be conducted in staging areas or other suitable locations (i.e., maintenance shops or yards) to the extent practical.

5. The Applicant shall maintain equipment in operating condition to reduce the likelihood of fuel or oil line breaks and leakage. Any vehicles with chronic or continuous leaks shall be removed from the ~~construction~~ site and repaired before being returned to operation.

6. Applicants are encouraged, but not required, to use an alternate to silica sand as a proppant, after Division of Oil Gas and Geothermal Resources has determined that such an alternative does not introduce new hazards.

Pages 4.8-85 through 4.8-86 *of the DEIR, Section 4.8.4, is revised as follows, as described in Section 7.1.4 and in response to comments 0002-059, 0005-022 and Global Responze Haz-1 of Section 7.2 (note that this measure has been further revised as shown in section 12.1.3 above and 12.4.2 below):*

MM 4.8-4 The Applicant shall implement the following measures to prevent, repair, and remediate accidental leaks and spills from oil and gas operations.

a. The Applicant shall identify gas, oil and produced water pipelines to be used for each new or reworked well site in its Site ~~Review~~ Plan, and shall show the location of any sensitive receptor located within ~~200~~ 300 feet of any such pipeline. For any pipeline located within ~~200~~ 300 feet of a sensitive receptor, the Applicant shall present evidence that each such pipeline has been integrity tested using pressure testing or other accepted test methods by a qualified professional within a two-year period prior to submittal of the Site ~~Review~~ Plan, and shall provide a copy of the test result to the County. For all waste gas lines less than or equal to 4 inches in diameter, a Pipeline Management Plan shall be developed and implemented in accordance with Division of Oil Gas and Geothermal Resources regulations Title 14, Division 2, Chapter 4, Section 1774.2. The Pipeline Management Plan shall include:

1. A listing of information on each pipeline including, but not limited to:

i. Pipeline type.

ii. Grade.

iii. Installation date of pipeline.

iv. Design and operational pressure.

v. Any leak, repair, inspection and testing history.

2. A description of the testing method and schedule for all pipelines.

b. The Applicant shall notify the Kern County Environmental Health Division, Certified Union Program Agency (CUPA), surface landowner, and sensitive receptors located within 300 feet, of ~~reportable quantities of fuel, gas, petroleum or~~ any hazardous materials ~~leaks~~ waste release to the County ~~within 48 hours of~~immediately upon discovery, and to other applicable agencies as required by other laws. The Applicant shall immediately contain the leak (e.g., by isolating or shutting down the leaking equipment), clean up contaminated media (e.g., soils), and repair the leak prior to recommencing operations. The Applicant shall report the status and progress of the leak repair and remediation work to the County and the CUPA on monthly intervals or predetermined intervals until the repair has been completed~~, and any contaminated~~. Contaminated media ~~has been remediated.~~ shall be analyzed according to 22 C.C.R. §§ 66261.21-66261.24 for determination of appropriate hazardous waste disposal. Hazardous Waste Determination procedures are provided in 22 C.C.R. § 66262.11.

c. As part of the Site Plan, the Applicant shall identify the location and right of way for all pipelines to be used for the transport of oil, gas, and produced water, including pipelines that intersect the main transport line, based on existing data and using commercially available technology, and, based on the results of this analysis, shall identify any sensitive receptors within 300 feet of the pipeline for purposes of complying with Mitigation Measure 4.8-4. Mechanical integrity testing of all such pipeline lengths within 300 feet of a sensitive receptor shall be required pursuant to Mitigation Measure 4.8.4-1.

d. If a release, identified pursuant to subsection (b), cannot be repaired or remediated within 48 hours, and has potential impact to sensitive receptors, the Applicant shall incur costs to sample and analyze the potentially affected area, which may include soil, groundwater, outdoor or indoor air of sensitive receptors within 300 feet of the leak. Applicant shall pay all temporary relocation costs (e.g., housing, food, and transportation) for any exposed sensitive receptor until such time as the leak has been repaired and post-indoor air testing has been completed, as confirmed by identified agency having oversight of the remediation.

Page 4.8-86 through 4.8-87 *of the DEIR, Section 4.8.4, is revised as follows, as described in Section 7.1.4 and in response to comments 0005-022 and 0005-23 of section 7.2 (note that this measure has been further revised as shown in section 12.1.3 above and 12.4.2 below):*

MM 4.8-6 The Applicant shall ~~implement the most up-to-date best management practices as part of their normal operations. Specifically, operators and/or their contractors shall implement~~ measures to prevent the release or accidental spillage of solid waste, garbage, construction debris, sanitary waste, industrial waste, naturally occurring radioactive materials, oil and other petroleum products, and other wastes into water bodies or water sources~~. The best management~~, including all applicable practices included in the most up-to-date versions of the following documents shall be followed: Exemption of Oil and Gas Exploration and Production Wastes From Federal Hazardous Waste Regulations (EPA 2002). Equivalent industry standards such as Environmental Protection for Onshore Oil and Gas Productions and Leases (American Petroleum Institute 2009) and related standards may also be utilized, provided that a professional engineer, certified industrial hygienist or certified safety professional certifies to the County that such alternative standards are as or more protective of human health and the environment, as compared to the standards in the referenced Environmental Protection Agency manual. The determination of when and the extent to which a measure is "practical" is to be made by the Applicant; however, all of the below activities must comply with all applicable legal requirements, including federal and state laws and regulations, County ordinances, and the mitigation measures included in this Final EIR.

a. Classify the various oil and gas exploration and production wastes for proper disposal as described in United States Environmental Protection Agency 2002~~.~~, and in accordance with applicable California laws and regulations.

b. Size reserve pits properly to avoid overflows.

c. Use closed loop mud systems when practical, particularly with oil-based muds.

d. Review safety data sheets of materials used, and select less toxic alternatives when possible.

e. Minimize waste generation, such as by designing systems with the smallest volumes possible (e.g., drilling mud systems).

f. Reduce the amount of excess fluids entering reserve and production pits.

g. Keep non-exempt wastes out of reserve or production pits.

h. Design the drilling pad to contain stormwater and rigwash.

i. Recycle and reuse oil-based muds and high density brines, when practical, and when such recycling and reuse complies with hazardous waste laws and recycling laws.~~.~~

j. Perform routine equipment inspections and maintenance to prevent leaks or

emissions.

k. Reclaim oily debris and tank bottoms when practical, and when such reclamation complies with hazardous waste laws and recycling laws.

l. Minimize the volume of materials stored at facilities.

m. Construct adequate berms around materials and waste storage areas to contain spills.

n. Perform routine inspections of materials and waste storage areas to locate damaged or leaking containers.

o. Train personnel to use sensible waste management practices.

Pages 4.8-87 through 4.8-88 *of the DEIR, Section 4.8.4, is revised as follows, as described in Section 7.1.4 and in response to comment 0002-109 and Global Response Geo-1 of Section 7.2 (note that this measure has been further revised as shown in section 12.1.3 above and 12.4.2 below):*

MM 4.8-7 Conduct exploration and development activities as described in Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development The Gold Book (Bureau of Land Management 2007~~).~~) or equivalent industry standard such as Environmental Protection for Onshore Oil and Gas Production Operations and Leases (American Petroleum Institute 2009) and related standards. The following specific measures should be undertaken at a minimum:

a. ~~Sufficiently~~ Sufficient impervious secondary containment, such as containment dikes, containment walls, and drip pans, should be constructed and maintained around all qualifying petroleum facilities, including tank batteries and separation and treating areas consistent with the Environmental Protection Agency's Spill Prevention, Control, and Countermeasures regulation (40 Code of Federal Regulations 112). The containment structure must have sufficient volume to contain, at a minimum, the content of the largest storage tank containing liquid hydrocarbons within the facility/battery and sufficient freeboard to contain precipitation, unless more stringent protective requirements are deemed necessary by the authorized officer. Drip pans should be routinely checked and cleaned of petroleum or chemical discharges and designed to prevent access by wildlife and livestock.

b. Chemical containers should not be stored on bare ground, exposed to the sun and moisture. Containers and labels are subject to degradation and punctured drums could leak contents on the ground. Chemicals~~.~~ containers should be maintained in good condition and placed within secondary containment in case of a spill or high velocity puncture.

c. Containment dikes are not to be constructed with topsoil or coarse, insufficiently impervious spoil material. Containment is strongly suggested for produced water tanks. Chemicals should be placed within secondary containment and stored so that the containers are not in contact with soil or standing water and product and hazard

labels are not exposed to weathering.

d. Maintain a clean well location. Remove trash, junk, and other materials not in current use

e. In approving a well stimulation treatment permit, the applicant shall include in the spill contingency plan required by Section 1722.9 of Title 14 of the California Code of Regulations a protocol for measuring and reporting earthquake and earth consequences that occur during the well stimulation process, for however many well stimulation treatments are proposed to occur simultaneously at any given time. The Spill Contingency Plan shall include requirements for adequate personnel and equipment that may be necessary to conduct post-earthquake inspection and repair plans to evaluate any damage that has occurred. The Spill Contingency Plan shall include spill prevention, control and countermeasure plans to address the hazardous substances associated with well stimulation activities. The post-earthquake inspection procedures shall ensure the integrity of the mechanical systems and well integrity of wells used for stimulation or wastewater injection and idle wells that might have become conduits for escaping fluids or gases. The plan shall include procedures describing the necessary steps to be taken after service is disrupted in order to make the facilities secure, operational and safe as soon as possible.

Pages 4.8-89 through 4.8-90 *of the DEIR, Section 4.8.4, is revised as follows, as described in Section 7.1.4:*

MM 4.8-8 Applicants shall use the appropriate American Petroleum Institute Standards, or other recognized sources imposing the same or equivalent standards, for their facility, such as the following:

a. Use cements and well materials in well completions as described in Specifications for Cements and Materials for Well Cementing (American Petroleum Institute 2011).

b. Prior to start-up of all new facilities, verify and prove the construction, installation, integration, testing, and preparation of systems have been completed as designed following the practices described in Facilities Systems Completion Planning and Execution (American Petroleum Institute 2013a).

c. When the use of centralizers and stop-collars are required during well completion activities, follow the installation and testing requirements described in Recommended Practice for Centralizer Placement and Stop-collar Testing (American Petroleum Institute 2010a).

d. Limit the environmental footprint of oil and gas exploration and production and reduce the incidence of releases of hazardous substances following the practices described in Environmental Protection for Onshore Oil and Gas Production Operations and Leases (American Petroleum Institute 2009).

e. Minimize improper disposal by following the practices described in American Petroleum Institute Order No. G00004, Guidelines for Commercial Exploration and

Production Waste Management Facilities (American Petroleum Institute 2001) or other recognized methods. These guidelines discuss the relevant regulations and permitting requirements; siting, construction, and technical consideration for various waste disposal options; as well as mitigation options.

f. Minimize the environmental footprint of exploration and production activities following the practices described in Land Drilling Practices for Protection of the Environment (American Petroleum Institute 2010b) or other recognized sources.

g. ~~Prior~~ When pressure testing is required by State or federal law, prior to pressurizing or re-pressurizing petroleum product pipelines, ensure the integrity of pipelines following the practices described in Recommended Practice for the Pressure Testing of Steel Pipelines for the Transportation of Gas, Petroleum Gas, Hazardous Liquids, Highly Volatile Liquids, or Carbon Dioxide (American Petroleum Institute 2013b) or other recognized sources.

h. To minimize releases of hazardous substances during oilfield construction, pit and sump operations shall be conducted in accordance with State Water Resources Control Board General Orders or appropriate Regional Water Quality Control Board waste discharge requirements or general orders.

Pages 4.8-89 of the DEIR, Section 4.8.4, is revised to add a new mitigation measure immediately following MM 4.8-9, as described in Section 7.1.4 and in response to comments 0002-080, 0002-097, 0047-091, 0048-010, et al., Global Response 12 and Global Response Water-8 of Section 7.2:

MM 4.8-16 The applicant shall not use any well stimulation fluid unless the applicant presents one of the following:

1. Safety Data Sheet that accurately describes the physical and chemical properties of the well stimulation fluid; or
2. Safety Data Sheets that accurately describe the physical and chemical properties of all chemical compounds in the well stimulation fluid; or
3. Toxicological report prepared by a qualified laboratory and/or the fluid vendor confirming the environmental profile of the well stimulation fluid is known; or
4. Results of an aquatic bioassay by a qualified laboratory confirming the environmental profile of the well stimulation fluid is known.

For purposes of this mitigation measure, the term "environmental profile" means the physical and chemical properties of a compound that determine its risk to human health and the environment. This mitigation measure shall be superseded by any list of approved well stimulation treatment fluids, chemicals or additives published by the State of California or by any applicable State of California regulation pertaining to chemical use in well stimulation treatment.

Pages 4.8-92 of the DEIR, Section 4.8.4, first full paragraph, is revised as follows, as

described in response to comment 0002-172 of Section 7.2:

> Surface expressions also may be caused by breakdown of the formation or from damaged casing allowing fluids to migrate vertically and laterally to the surface. DOGGR recognizes the potential impacts associated with possible surface expressions related to oil and gas operations and has provided site-specific conditions in their Project approval letters to minimize the potential for these types of events. The need for site-specific mitigations is dependent on the depth of the formation and geologic properties of the overlaying formations, which determine whether to ensure that the injection fluid is confined to the intended zone or zones of injection.

Pages 4.8-92 through 4.8-93 of the DEIR, Section 4.8.4, is revised as follows, as described in Section 7.1.4:

MM 4.8-12 An Applicant who plans to perform cyclic steam injection activities above reservoir fracture ~~levels~~ pressures shall conduct such activities in accordance with the requirements set forth in the Division of Oil Gas and Geothermal Resources site-specific Project Approval Letter for the injection project. The following requirements from a Project Approval Letter for an injection project are examples of the types of conditions that would be triggered if a surface expression were to occur, though such conditions may be modified by the Division of Oil Gas and Geothermal Resources to reflect site-specific conditions and changing regulatory requirements.

a. Cease cyclic steaming operations in accordance with the site-specific Project Approval Letter. Streaming can resume following the Division of Oil Gas and Geothermal Resources specifications outlined in the Project Approval Letter.

b. All new or reactivated surface expressions that discharge oil in a reportable quantity shall be reported as an oil spill to the California Emergency Management Agency at (800) 852-7550.

c. Any measures to address surface expressions from the well and associated Project shall be reviewed by the Division of Oil Gas and Geothermal Resources prior to initiating.

d. Immediately control any water, steam, or oil flowing from a surface expression and contained. All discharged material shall be removed and disposed of in a manner approved by all state and local agencies.

e. Cordon off and clearly mark all surface expressions to prevent inadvertent access.

f. Conduct air sampling of any emissions associated to a recent surface expression in accordance to the local air board requirements to ensure a health hazard condition does not exist.

g. Report immediately to the Division of Oil Gas and Geothermal Resources all surface expressions within 300 feet of the Project site. If the surface

expression continues to flow after five days, all wells within a 300-foot radius shall cease steaming until the surface expression ceases to flow. If the surface expression continues to flow, the damage will be evaluated at the Supervisor's discretion, as assigned by Section 3106 of the Public Resources Code and existing laws and regulations.

Pages 4.8-93 through 4.8-94 of the DEIR, Section 4.8.4, is revised as follows, as described in Section 7.1.4:

MM 4.8-14 The Applicant shall report contamination caused by oil and gas activities, including previously unknown injection wells, of a reportable quantity of hazardous substances, as specified in the Code of Federal Regulations Title 40 and/or the California Code of Regulations Titles 22 and 23, which is discovered during Project construction activities and operations. Notification must be made to Kern County Environmental Health Division and the appropriate implementing regulatory agency that has responsibility or oversight of the specific contamination conditions. The Applicant shall remediate such contamination outside Tier 1 areas as required by the Kern County Environmental Health Division and the appropriate implementing regulatory agency.

Pages 4.8-94 of the DEIR, Section 4.8.4, second bulleted paragraph, is revised as follows, as described in response to comment 0005-024 in Section 7.2:

- "Extremely hazardous waste" means any hazardous waste or mixture of hazardous wastes which, if human exposure should occur, may likely result in death, disabling personal injury or serious illness caused by the hazardous waste or mixture of hazardous wastes because of its quantity, concentration or chemical characteristics (Section 66260.10, title 22, CCR~~Title 19 CCR~~).

Pages 4.8-100 through 4.8-101 of the DEIR, Section 4.8.4, is revised as follows, as described in Section 7.1.4:

MM 4.8-20 The Applicant is required to implement the following measures:

a. Comply with Kern County Fire Codes.

b. Maintain firefighting apparatus and supplies required by the Kern County Fire Department.

c. Maintain of a list of all relevant fire-fighting authorities for each work site.

d. Have available equipment to extinguish incipient fires and or construction of a fire break, such as: chemical fire extinguishers, shovels, axes, chain saws, etc.

e. Carry water or fire extinguishers and shovels in non-passenger vehicles in the field.

f. Have and maintain an adequate supply of fire extinguishers for welding, grinding,

and brushing crews.

g. ~~Protect~~ Use available resources to protect individual safety and to contain any fire that occurs and notify local emergency response personnel.

h. Remove any flammable wastes generated during oil and gas activities regularly.

i. Store all flammable materials used in oil and gas activities away from ignition sources and in approved containers.

j. Allow smoking only in designated smoking areas.

k. Prohibit smoking where flammable products are present and when the fire hazard is high. Train personnel regarding potential fire hazards and their prevention.

l. All internal combustion engines, stationary and mobile, shall be equipped with spark arresters. Spark arresters shall be in good working order.

m. Light trucks and cars with factory-installed (type) mufflers shall be used only on roads where the roadway is cleared of vegetation. Said vehicle types shall maintain their factory-installed (type) muffler in good condition.

n. Fire rules shall be posted on the Project bulletin board at the contractor's field office and areas visible to employees.

o. Equipment parking areas and small stationary engine sites shall be cleared of all extraneous flammable materials.

p. Personnel shall be trained in the practices of the Fire Safety Plan relevant to their duties. Construction and maintenance personnel shall be trained and equipped to extinguish small fires in order to prevent them from growing into more serious threats.

Pages 4.9-11 through 9-12 of the DEIR, Section 4.9.2, Table 4.9-1, is revised as follows, as described in Global Response Water-5 in Section 7.2:

Table 4.9-1: Project Area 2012 Oil and Gas Exploration and Production - Water Supply and Demand (acre-feet)

Water Supplied	
Produced Water	234,959
M&I Water	8,778
TOTAL	**243,737**
Water Use	
Treated Produced Water	
EOR Water and Steam Injections, Pressure Maintenance and Well Pulling	88,668
Coil Tubing, Dust Control, Surface Facility Construction	144
Oil and Gas Produced Water Reuse	88,812

Table 4.9-1: Project Area 2012 Oil and Gas Exploration and Production - Water Supply and Demand (acre-feet)

Agricultural Reuse	~~32,771~~38,658
Subtotal: Produced Water Reuse	**~~121,583~~127,470**
M&I Water	
New Well Construction (Drill Mud + Well Stimulation)	589
Maintenance (Mud Services + Cementing)	61
Maintenance (Acidizing + Coil Tubing)	52
Maintenance (Well Pulling + Domestic Water)	594
Well Abandonment	202
Steam Production	7,279
Oil and Gas M&I Water Demand	8,778
Subtotal: Oil and Gas Water Demand, M&I and Produced Water	**97,590**
Injection Well Disposal	84,571
Produced Water Land Disposal	~~30,223~~30,931
Subtotal: Oil and Gas Produced Water Waste Disposal	**~~114,794~~115,502**
TOTAL	**243,737**

Source: Appendix T (WSA), Table 28

Notes:
Includes a water balance closure factor for the net difference between estimated water inputs and outputs of -8,012~~1,418~~ AF.
All values subject to rounding and may vary slightly from Table 28.

Page 4.9-13 of the DEIR, Section 4.9.2, top of the page, is revised as follows, as described in Global Response Water-5 in Section 7.2:

In addition, produced water is treated and conveyed to water districts and blended for irrigation purposes. About 38,658 ~~32,771~~ AFY of treated produced water from wellfields in the Eastern Subarea was supplied to and reused for agricultural irrigation by the Cawelo Water District (37,107 AF) and for other agricultural irrigation (1,551 AF) in 2012 (see Appendix T-1, Section 4.3.6.2). The produced water is treated by oilfield facilities to remove residual hydrocarbons and certain other constituents, and is mixed with other district water supplies to reduce the total dissolved solid (TDS) or salt concentrations prior to irrigation use.

Produced water that is not reused for oilfield operations, including EOR, maintenance, or construction, or that is not treated and supplied to other users for agricultural irrigation, is disposed by oilfield operators in surface impoundments (ponds) in accordance with Waste Discharge Requirements (WDRs) issued by the Central Valley Regional Water Quality Control Board or is injected into Class II injection wells (discussed in more detail below) permitted by the California

Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR). About 30,~~223~~ 931 AF of produced water was disposed into surface ponds and 84,500 AF of produced water was disposed by injection into Class II wells in the Project Area during 2012 (Table 4.9-1).

Page 4.9-13 of the DEIR, Section 4.9.2, final paragraph of the page, is revised as follows, as described in Global Response Water-5 in Section 7.2:

Table 4.9-1 shows that total oil and gas production and exploration water demand in the Project Area during 2012 was about 97,590 AF, including 88,812 AF of produced water that was used for EOR and coil tubing, dust control, and surface facility construction purposes, and 8,778 AF of M&I water that was used for new well construction, well stimulation treatments, supplemental EOR steam generation, maintenance, abandonment, and oilfield domestic and sanitary water uses. Produced water accounted for about 91% and M&I water accounted for 9% of total oil and gas production and exploration demand in 2012. About ~~114,794~~ 115,502AF of produced water was disposed of as waste in the Project Area during 2012, of which ~~74~~73% (84,571 AF) was injected into Class II injection wells and ~~26~~27% (30,~~223~~ 931 AF) was discharged into percolation or evaporation ponds. About 38,658 ~~32,771~~ AF of produced water generated primarily from the Kern River and adjacent oilfields in the Eastern Subarea was treated, blended with other water supplies, and used by the Cawelo Water District and other users for agricultural irrigation in 2012.

Page 4.9-14 through 4.9-15 of the DEIR, Section 4.9.2, Table 4.9-2 and immediately following paragraph, is revised as follows, as described in Global Response Water-5 in Section 7.2:

Table 4.9-2: Western Subarea 2012 Oil and Gas Exploration and Production Water Supply and Demand

Water Supplied	
Produced Water	131,341
M&I Water	8,358
TOTAL	**139,699**
Water Use	
Treated Produced Water	
EOR Water and Steam Injections, Pressure Maintenance and Well Pulling	75,322
Coil Tubing, Dust Control, Surface Facility Construction	97
Oil and Gas Produced Water Reuse	75,419
Agricultural Reuse	0
Subtotal: Produced Water Reuse	**75,419**
M&I Water	
New Well Construction (Drill Mud + Well Stimulation)	472

Table 4.9-2: Western Subarea 2012 Oil and Gas Exploration and Production Water Supply and Demand

Maintenance (Mud Services + Cementing)	40
Maintenance (Acidizing + Coil Tubing)	35
Maintenance (Well Pulling + Domestic Water)	397
Well Abandonment	134
Steam Production	7,279
Oil and Gas M&I Water Demand	8,357
Subtotal: Oil and Gas Water Demand, M&I and Produced Water	**83,776**
Injection Well Disposal	40,482
Produced Water Land Disposal	~~12,950~~19,545
Subtotal: Oil and Gas Produced Water Waste Disposal	**~~53,432~~60,027**
TOTAL	**139,699**

Source: Appendix T (WSA), Table 28
Notes:
Includes a water balance closure factor for the net difference between estimated water inputs and outputs of -4,104~~2,490~~ AF.
All values subject to rounding and may vary slightly from Table 28.

Table 4.9-2 shows that total oil and gas production and exploration water demand in the Western Subarea during 2012 was about 83,776 AF, including 75,419 AF of produced water reused for EOR and coil tubing, dust control, and surface facility construction purposes and 8,358 AF of M&I water for new well construction, well stimulation treatments, supplemental EOR steam generation, maintenance, abandonment, and oilfield domestic and sanitary water uses. Produced water accounted for about 90% and M&I water accounted for 10% of total oil and gas production and exploration demand in the Western Subarea during 2012. About 60,027~~53,432~~ AF of produced water was disposed as waste in the Western Subarea during 2012, of which ~~76~~67% (40,482 AF) was injected into Class II injection wells and ~~24~~33% (19,545~~12,950~~ AF) was disposed into percolation or evaporation ponds. No treated produced water was used for agricultural irrigation in the Western Subarea.

Page 4.9-17 of the DEIR, Section 4.9.2, Table 4.9-4 and immediately following paragraph, is revised as follows, as described in Global Response Water-5 in Section 7.2:

Table 4.9-4: Eastern Subarea 2012 Oil and Gas Exploration and Production Water Supply and Demand

Water Supplied	
Produced Water	100,734
M&I Water	357

Table 4.9-4: Eastern Subarea 2012 Oil and Gas Exploration and Production Water Supply and Demand

TOTAL	**101,091**
Water Use	
Treated Produced Water	
EOR Water and Steam Injections, Pressure Maintenance and Well Pulling	12,528
Coil Tubing, Dust Control, Surface Facility Construction	45
Oil and Gas Produced Water Reuse	12,573
Agricultural Reuse	~~32,771~~38,658
Subtotal: Produced Water Reuse	**~~45,344~~51,231**
M&I Water	
New Well Construction (Drill Mud + Well Stimulation)	74
Maintenance (Mud Services + Cementing)	19
Maintenance (Acidizing + Coil Tubing)	16
Maintenance (Well Pulling + Domestic Water)	186
Well Abandonment	62
Steam Production	0
Oil and gas M&I water demand	357
Subtotal: Oil and Gas Water Demand, M&I and Produced Water	**12,930**
Injection Well Disposal	41,919
Produced Water Land Disposal	~~17,084~~11,197
Subtotal: Oil and Gas Produced Water Waste Disposal	**~~59,003~~53,116**
TOTAL	**101,091**

Source: Appendix T (WSA), Table 28
Notes:
Includes a water balance closure factor for the net difference between estimated water inputs and outputs of -3,613 AF
All values subject to rounding and may vary slightly from Table 28.

Table 4.9-4 shows that total oil and gas production and exploration water demand in the Eastern Subarea during 2012 was about 12,931 AF, including 12,574 AF of produced water reused for EOR and coil tubing, dust control, and surface facility construction purposes, and 357 AF of M&I water for new well construction, well stimulation treatments, maintenance, abandonment, and oilfield domestic and sanitary water uses. Produced water accounted for about 97% and M&I water accounted for 3% of total oil and gas production and exploration demand in the Eastern Subarea during 2012. About 53,116~~59,003~~ AF of produced water was disposed as waste in the Eastern Subarea Area during 2012, of which ~~71~~79% (41,919 AF) was injected into Class II injection wells, and ~~29~~21% (11,197~~17,084~~

AF) was disposed into percolation or evaporation ponds. About 38,658 ~~32,771~~ AF of treated produced water was used for agricultural irrigation in the Eastern Subarea by the Cawelo Water District and other users in 2012, representing about ~~72~~75% of the total amount of produced water recycled in the Eastern Subarea.

Page 4.9-22 of the DEIR, Section 4.9.2, final paragraph on page, is revised as follows, as described in response to comment 0002-179:

This section summarizes available information concerning existing surface water and groundwater quality and the effects of historical oil and gas exploration and production in the Project Area. As will be discussed in Section 4.9.3, Regulatory Setting, surface water and groundwater quality is subject to regulation under several federal, state, County, and local laws, regulations, and programs. Certain regulatory programs utilize different criteria to define "fresh" water supplies or "drinking water." Not all water that is identified as "fresh" water in certain regulatory contexts is suitable for use as drinking water. The federal Safe Drinking Water Act (SDWA) defines a groundwater aquifer with TDS concentrations of up to 10,000 milligrams per liter (mg/L) or ppm as an "underground source of drinking water" (USDW). The identification of the depth to the base of "fresh" water in many DOGGR summaries of active oilfields typically refers to groundwater with a TDS level of up to 3,000 mg/L. ~~However, a~~Almost no drinking water supplied to urban consumers in California contains TDS levels above 500 mg/L, the secondary (recommended, but not mandatory) maximum contaminant level (MCL) applicable to drinking water under state and federal law. However, DOGGR has indicated that, according to the State Water Resources Control Board, many residents in Kern County are using and drinking water above the MCL. Water supplies with TDS levels significantly above 1,000 mg/L are also less commonly used for most non-potable and agricultural irrigation in the Project Area because of the risk that dissolved ions, commonly called "salts" in high TDS water, will accumulate in and degrade the productivity of agricultural topsoils. However, DOGGR has advised that comments from DOGGR workshops indicate that farmers use water with TDS greater than 4,000 mg/L on crops.

Page 4.9-49 of the DEIR, Section 4.9.2, beginning at the first full paragraph on the page, is revised as follows, as described in responses to comments 0003-008, 0003-009, 0003-031 and 0003-032 in Section 7.2:

As discussed in Section 4.9.3, Regulatory Setting, to address chronic water supply concerns in arid portions of the country, regulations adopted under the federal CWA allow produced water that meets specified criteria to be used for agricultural or wildlife propagation purposes in onshore locations west of the 98th meridian (which extends through central Texas, Oklahoma, Nebraska, Kansas, and North and South Dakota east of the Rock Mountains). In 2007, the CVRWQCB issued WDRs for the delivery and blending of treated produced water to the Cawelo Water District in the eastern project Subarea for agricultural irrigation. The 2007 WDRs allowed for the discharge of the blended and treated produced water into certain canals and reservoirs regulated by the CVRWQCB, and also for discharge into the Poso Creek system when supplies exceeded irrigation demand. In 2011, the CVRWQCB determined that the blended produced water discharges into the Poso Creek system exceeded applicable WDR arsenic concentration limits (CVRWQCB Order R5-

2011-0900). In response, discharges of blended produced water to the Poso Creek system were eliminated by routing any excess supplies by pipeline to percolation ponds managed by the Famoso Groundwater Banking Project. In 2012, the CVRWQCB issued revised WDRs for the use of the Famoso facilities and determined that arsenic in the blended produced water would be retained in the soil surfaces of the percolation facility, and would not change or degrade groundwater quality (CVRWQCB Order R5-2012-0058).

In 1998, the CVRWQCB prepared Waste Discharge Requirements (WDRs) Order R5-1998-205, including a Monitoring and Reporting Program (MRP) for an operator in the Jasmin Field. The WDRs/MRP provides regulatory oversight for the operator to re-use good quality produced water (not exceeding Basin Plan limitations) for local agriculture applications. The re-use is by blending the produced water with other surface and/or groundwater for distribution by the Jasmin Ranchos Mutual Water District.

Produced water is not currently used for agriculture or wildlife propagation in the Western or Central portions of the Project Area. The Kern-Tulare Water District is located near the California Highway 65 and the intersection of State Route 155 within the Eastern Subarea. The Kern-Tulare Water District has proposed to use up to 8,000 AF per year of treated produced water in the ~~Western~~ Eastern Subarea. A California Environmental Quality Act (CEQA) notice of preparation (NOP) for an EIR that will address potential environmental impacts related to the proposed produced water use was published in 2015 (SCH Number: 2015021024) (CEQAnet.ca.gov).The EIR will be prepared by the district. Additional use of treated produced water has been considered, but has not yet been formally proposed, in other Project Area locations, partially in response to the prolonged drought that has affected California and other portions of the western United States. Produced water is re-used in the Jasmin Field and by Cawelo Water District under WDRs issued by the CVRWQCB.

Page 4.9-50 of the DEIR, Section 4.9.2, between the first and second paragraphs on the page, is revised as follows, as described in response to comment 0003-033 in Section 7.2:

Storm Water Discharge and NPDES Permitting

The SWRCB has adopted a statewide General National Pollutant Discharge Elimination System (NPDES) Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (the General Construction General Permit) (WQ Order No. 2009-0009–DWQ, as modified by 2010-0014-DWQ and 2012-006-DWQ) and a statewide General NPDES Permit for Storm Water Discharges Associated with Industrial Activities (Industrial General Permit) (Order 97-03-DWQ, expiring June 30, 2015, and Order 2014-0057-DWQ [effective July 1, 2015]). Where applicable, the Construction General Permit and the Industrial General Permit require the preparation of a stormwater pollution prevention plan (SWPPP), the implementation of BMPs, and other monitoring and management measures to reduce water quality impacts that could result from discharges of contaminated stormwater from the covered activities. Oil and gas exploration, construction and operational activities are subject to these general permits, with some exceptions as discussed below.

Page 4.9-57 of the DEIR, Section 4.9.2, third full paragraph on the page, is revised as follows, as described in responses to comments 0003-034, 0003-035 and 0003-038 in Section 7.2:

The shallow well data for 2007 through 2013 shows that, in general, the Western Subarea has significantly lower groundwater quality than is typical of the Central and Eastern Subareas. TDS levels in the Western Subarea averaged 12,433 mg/L, compared with an average of 931 mg/L in the Central Subarea and 5,789 mg/L in the Eastern Subarea. Average chloride, bicarbonate, selenium, and vanadium levels were several times higher in the Western Subarea than in the Central and Eastern Subareas. ~~Boron was detected in the Central Subarea, but not in the Western and Eastern Subareas where oil activities occur to a much greater extent. Arsenic levels were higher in the Eastern Subarea, a result consistent with the elevated arsenic levels detected in blended produced water supplied to the Cawelo Water District discussed above~~The~~Although the average~~ arsenic concentrations in the Eastern Subarea were higher than in the Western Subarea, the median arsenic concentrations for the Eastern Subarea ~~are~~were lower than for the Western Subarea. These results indicate that the average arsenic levels in the Eastern Subarea were likely affected by a small number of relatively high arsenic levels in a few sampling locations. ~~Expanded monitoring of blended produced water and other irrigation water is also being required more generally in the Project area (Cart 2015a).~~

Pages 4.9-69 through 4.9-70 of the DEIR, Section 4.9.2, beginning at the second paragraph on page 4.9-69, is revised as follows, as described in responses to comments 0003-039, 0003-40. and 0003-041:

The Tulare Lake Basin Plan states that historical use of produced water ponds is known to have affected groundwater in the Project Area. The CVRWQCB has determined that produced water discharges into unlined ponds have impacted downgradient groundwater in several Project Area locations, including ponds adjacent to the North Belridge oilfield (Order No. R5-2013-0054), the Section 29 surface impoundments at the Lost Hills oilfield (Order No. R5-2013-0056) and ponds adjacent to the South Belridge oilfield (Order No. R5-2013-0061). The produced water disposal facilities in these instances have been closed and are no longer in operation. ~~The applicable~~Each CVRWQCB post closure order~~,s~~ described above, includes a ~~require~~ monitoring and reporting program~~s~~ to ~~evaluate~~ monitor the extent of the ~~groundwater~~ impacts in groundwater and the natural attenuation of the impacts over time ~~and to document that affected groundwater constituent levels have returned to ambient conditions~~. Although downgradient water quality impacts have been documented from certain ponds, to date there is no confirmed instance documented by a regulatory agency in which the use of a produced water pond has impaired operational agricultural or drinking water wells. However, in 2001, an almond grower that owned orchards downgradient from unlined ponds located in the western Subarea filed a lawsuit asserting that produced water disposed to the unlined ponds had contaminated the groundwater underlying the orchard and killed the almond trees. In 2009, a jury ruled in the grower's favor and awarded the grower $8.5 million in damages, but subsequent efforts to obtain additional punitive damages were unsuccessful (Barrios 2013).

Small unlined surface impoundments have been, and continue to be, used in the Project Area to capture Prior to December 4, 2013, unlined sumps were used throughout the Project area to contain drilling muds and drillingg fluids cuttings discharged when drilling a wellduring well construction when closed loop systems that avoid discharges to land are not utilized. After December 4, 2013, these drilling mud pits have only been used in the Eastern and Western Subareas because coverage under the State Water Resources Control Board General Order 2003-0003-DWQ has not been obtained by any operator to use drilling mud pits in the Central Subarea. Drilling mud pits cannot Unless specifically permitted to accept additional discharges, the drilling sumps may not be used to for the discharge of other types of oilfield wastes such as, but not limited to, including well completion fluids, or well stimulationWST fluids and materials, or produced water. In 2013, a A video posted on-line in October 2012 video of a well drilling operation to the eastnorth of the Ceity of Shafter, in the Central Subarea, showings the discharge of non-drillingWST fluids to a drilling sump was posted online. In response, theAfter an investigation by CVRWQCB staff determined that WST fluids were in the drilling sump for 12 days, investigated the drilling operation, and the operator agreed to pay the maximum an administrative civil liability payment amount for 12 days ofthe unpermitted discharge to the sumps (Administrative Civil Liability Order R5-2013-0587).

OIn November 2013, the CVRWQCB also issued 78an investigative orders (Section 13267 Orders) to 78 oil and gas production and exploration operators that requireding the submission of well drilling and well workover (repair and improvement) information during the period from January 1, 2012 to November 15, 2013. In 2014, the CVRWQCB staff reported that all of the companies hadoperators responded and provided drillingwith the required information for 6,381 new wells and 8,291 workovers of existing wells (CVRWQCB 2014).

Page 4.9-70 of the DEIR, Section 4.9.2, between the second and third paragraphs on the page, is revised as follows, as described in response 0003-042 in Section 7.2:

Underground Injection Control

As shown on Figure 4.9-15 and in Table 4.9-19, oil and gas operators in the Project Area have significantly increased the use of Class II injection wells regulated under the UIC program under the federal SDWA in order to reduce the use of unlined surface ponds for produced water and other permitted disposal. Since 1983, DOGGR has administered the UIC program in California under the terms of a primacy agreement with the EPA and regulates all oil and gas EOR-related and produced water disposal injection activities in the Project Area. DOGGR and the SWRCB executed a memorandum of agreement (MOA) in 1988 that establishes DOGGR as the primary state agency for the approval of oil and gas production and exploration discharges in Class II wells. The MOA has been incorporated into the Tulare Lake Basin Plan (CVRWQCB 2004).

Page 4.9-75 of the DEIR, Section 4.9.2, between the second and third paragraphs on the page, is revised as follows, as described in response 0003-043 in Section 7.2:

Well Stimulation

There have been no confirmed impacts to groundwater in the Project Area related to well stimulation, although analyses conducted to date generally recommend that additional groundwater data be developed to further assess this issue. In August 2014, the CCST, the Lawrence Berkeley National Laboratory (LBNL), and the Pacific Institute (PI) published an assessment of well stimulation activities in California for the federal Bureau of Land Management (BLM) (CCST 2014). BLM leases land in California, including land located in Kern County, for oil and gas exploration and production. The study identified chemical constituents used in at least 2% of the reported well stimulation treatments in California, generally for the period of 2012 through 2014, and identified oral toxicity information where available for these constituents. The majority of the well stimulation chemicals considered in the CCST report, such as guar gum, a gelling agent, or ethanol a common solvent, were determined to have low hazard potential in terms of oral toxicity. Certain chemicals, such as biocides (e.g., tetrakis [hydroxymethyl] phosphonium sulfate, 2,2-dibromo-3-nitrilopropionamide, and glutaraldehyde), corrosion inhibitors (e.g., propargyl alcohol), and mineral acids (e.g., hydrofluoric acid and hydrochloric acid) were found to present concerns for acute toxicity. Oral toxicity information was not available for about 30% of the constituents used in California well stimulation treatments. Table 4.9-23 lists the chemicals used in at least 2% of the reported well stimulation treatment chemicals for which chemical abstract service (CAS) oral toxicity data could be identified by the CCST. Table 4.9-24 lists the chemicals used in at least 2% of the reported well stimulation treatment chemicals for which CAS oral toxicity data could not be identified by the CCST.

Page 4.9-99 of the DEIR, Section 4.9.3*, first full paragraph on page, is revised as follows, as described in response to comment 0003-044 of Section 7.2:*

The State Water Resources Control Board has adopted a general NPDES permit for construction activities that disturb ~~more than~~ one acre or more of land (NPDES General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities [2012]), Construction General Permit, Order No. 2009-0009-DWQ, NPDES No. CAS000002 as amended by 2010-0014-DWQ and 2012-0006-DWQ~~, NPDES No. CAS000002)~~. The general permit applies to discharges of sediment from construction activities associated with oil and gas exploration, production, processing, or treatment operations or transmission facilities. To comply with the general permit, a Notice of Intent (NOI) must be filed with the ~~RWQCB~~State Water Resources Control Board, and a SWPPP must be implemented at the commencement of grading and remain in effect until construction is completed. Construction-related pollutants must be controlled with the best available technology economically achievable and best conventional pollutant control technology (the BAT/BCT standard). The Construction General Permit also requires effluent monitoring and reporting, receiving water monitoring and reporting, a rain event action plan, project site soil characteristics and monitoring, new and redevelopment performance standards for water quality and hydromodification impacts, technology-based numeric action levels, and risk-based permitting.

Page 4.9-102 of the DEIR, Section 4.9.3, *first full paragraph on page, is revised as follows, as described in response to comment 0003-045 of Section 7.2:*

On November 15, 2013, the CVRWQCB issued 78 ~~an~~ orders pursuant to California Water Code (CWC) §13267, that required~~ing a large number of~~ operators ~~of oil and gas wells~~ to provide information about discharges of drilling muds into sumps from January 1, 2012, to ~~present~~November 2013. ~~CWC §13267 authorizes the regional water board to require any person who has discharged waste to submit technical or monitoring program reports to assist the staff in its assessment of potential water quality impacts resulting from the discharge.~~ The orders were sent to those operators ~~identified for reporting those companies~~ that had produced more than 1,000 barrels of oil or 10 million cubic feet of natural gas ~~in per~~ month or to those operators ~~companies~~ that ~~may have~~ drilled exploratory wells. The~~se~~ operators were required to describe the procedures used to close ~~unlined~~ drilling mud pits ~~sumps at new wells~~ and ~~to close~~ smaller temporary operational sumps ~~next to existing wells~~. If waste was solidified during closure of a sump, then ~~the~~ a company was required to describe that solidification process in their response ~~report~~. ~~The CVRWQCB staff reported on its progress to the Board on June 5-6, 2014, and again on February 5-6, 2015. According to the project applicant, both reports were informational and no written report has yet been issued. The CVRWQCB~~ Sstaff has ~~indicated to the project applicants~~ informed operators that the CVRWQCB ~~that it intends to~~may prepare ~~general WDRs~~a general order for the discharge of drilling mud and cuttings to drilling mud pits. ~~sumps, but has not yet proposed tentative WDRs.~~ If prepared and adopted, the CVRWQCB G~~g~~eneral Order ~~WDRs~~ would replace coverage ~~supersede the need for coverage~~ under the State Water Resources Control Board General Order.

Page 4.9-102 of the DEIR, Section 4.9.3, *second full paragraph on page, is revised as follows, as described in response to comment 0003-046 of Section 7.2:*

Produced water has been historically disposed of in unlined ponds (surface impoundments), in reliance on an exemption contained in the SWRCB regulations applicable to "discharges of [nonhazardous] wastewater to land, including but not limited to evaporation ponds, percolation ponds, or subsurface leachfields" where the discharge was in compliance with an adopted water quality control plan, including the Tulare Lake Basin Plan (23 CCR §2511(b)). According to ~~the~~ CVRWQCB~~'s website~~staff, there are an estimated ~~933~~ 1,069 active and inactive produced water ponds in the ~~CVRWQCB~~Central Valley region, many of which are located in the Project Area. ~~Over~~ Approximately ~~500~~ 643 of these ponds ~~have~~ are regulated under~~been issued~~ WDRs.

Page 4.9-103 of the DEIR, Section 4.9.3, *first full paragraph on page, is revised as follows, as described in response to comment 0003-011 of Section 7.2:*

In April 2015, the CVRWQCB issued orders under Water Code §13267 to a large number of operators. This section of the Water Code authorizes the CVRWQCB to require any person who has discharged waste to submit technical or monitoring program reports to assist the staff in its assessment of potential water quality impacts resulting from the discharge. The orders vary among sites but, generally, require the collection and analysis of wastewater samples from each of the listed ponds within the operator's control to characterize the discharge. The CVRWQCB also issued inspection reports and notices of violation to some operators in April 2015, which require the operators to file reports of waste discharge, submit closure plans where applicable, or take corrective actions.

Page 4.9-108 of the DEIR, Section 4.9.3, *first full paragraph on page, is revised as follows, as described in response to comment 0002-182 of Section 7.2:*

> DOGGR directly regulates the exploration and production of oil and gas in Kern County for conformance with California's conservation laws. Pursuant to CCR, Title 14, Division 2, Chapter 4, Section 1722 (k), DOGGR establishes Field Rules which supplement more broadly applicable statutory and regulatory requirements regarding well operations in order to protect California's water resources and health and safety. Each Field Rule is specific to an administrative well field and, in many cases, to Areas and Zones or Pools within a field; the rules identify downhole conditions and well construction information to be considered by the oil and gas operators when drilling and completing oil and gas wells. If a Field Rule exists, then those rules must be followed. The Field Rule replaces the existing regulations based upon known geologic conditions. Field Rules have been adopted for most zones and fields in Kern County and are available online.

Page 4.9-108 of the DEIR, Section 4.9.4, *Table 4.9-27 and paragraphs immediately following, is revised as follows, as described in Global Response Water-5, of Section 7.2:*

Table 4.9-27: Oil and Gas Exploration and Production Produced and M&I Water Supply and Demand 2012 and 2035 (Scenarios 1, 2 and 3)

	2012	Scenario 1 Pro-Rata Increase	Scenario 2 50% Surface Disposal Reduction	Scenario 3 Full M&I Water Use Offset and 90% Surface Disposal Reduction
Water Supplied				
Produced Water	234,959	321,894	321,894	321,894
M&I Water	8,778	11,761	11,761	11,761
TOTAL	**243,737**	**333,655**	**333,655**	**333,655**
Water Use				
Treated Produced Water				
EOR water and steam injections, pressure maintenance and well pulling	88,668	121,215	121,215	121,215
Coil tubing, dust control, surface facility construction	144	197	197	197
Oil and gas produced water reuse	88,812	121,412	121,412	121,412
Agricultural reuse	~~32,771~~38,658	38,658~~32,771~~	38,658~~32,771~~	50,419~~44,532~~
Subtotal: Produced Water Reuse	**~~121,583~~127,470**	**~~154,183~~160,070**	**~~154,183~~160,070**	**~~165,944~~171,831**
M&I Water				
New Well Construction (Drill Mud + Well Stimulation)	589	789	789	789
Maintenance (Mud Services + Cementing)	61	82	82	82
Maintenance (Acidizing + Coil Tubing)	52	70	70	70

Table 4.9-27: Oil and Gas Exploration and Production Produced and M&I Water Supply and Demand 2012 and 2035 (Scenarios 1, 2 and 3)

	2012	Scenario 1 Pro-Rata Increase	Scenario 2 50% Surface Disposal Reduction	Scenario 3 Full M&I Water Use Offset and 90% Surface Disposal Reduction
Maintenance (Well Pulling + Domestic Water)	594	796	796	796
Well Abandonment	202	271	271	271
Steam Production	7,279	9,754	9,754	9,754
Oil and gas M&I water demand	8,778	11,761	11,761	11,761
Subtotal: Oil and Gas Water Demand, M&I and Produced Water	**97,590**	**133,173**	**133,173**	**133,173**
Injection Well Disposal	84,571	~~125,905~~119,539	~~152,600~~146,358	~~152,928~~146,970
Produced Water Land Disposal	~~30,223~~30,931	~~41,806~~ 42,285	~~15,112~~15,466	~~3,022~~3,093
Subtotal: Oil and Gas Produced Water Waste Disposal	**~~114,794~~115,502**	**~~167,711~~161,824**	**~~167,711~~161,824**	**~~155,950~~150,063**
TOTAL	**243,737**	**333,655**	**333,655**	**333,655**

Sources: Based on Appendix T, Table 28 for 2012, and projected values for Scenarios 1-3.
Note:
All values subject to rounding error and may vary slightly from Table 28

Pages 4.9-125 of the DEIR, Section 4.9.4, *first full paragraph on page, is revised as follows, as described in Global Response Water-5 of Section 7.2:*

The Applicant estimates that demand for water needed for oil and gas exploration and production activities would increase by about 37% from 2012 to 2035, based on anticipated increases in production activity. The methodology used to estimate future water demand is described in detail in Appendix T. The analysis indicates that M&I water demand would increase from 8,778 AF to 11,761 AF, and produced water demand for oil and gas uses would increase from 88,812 AF to 121,412 AF over this period. The Applicant's water demand estimates assume that 38,658~~32,771~~ AF of treated produced water, the amount supplied for agricultural use in 2012, would continue to be supplied over the analysis period. As a result, total produced water demand in the Project Area for oil and gas and agricultural uses is anticipated to increase from 127,470~~121,583~~ AF in 2012 (88,812 AF used for oil and gas activities plus 38,658~~32,771~~ AF of agricultural reuse) to ~~154,183~~ 160,070 AF in 2035 (121,412 AF used for oil and gas activities plus 38,658~~32,771~~ AF of agricultural reuse) (Appendix T-1).

Pages 4.9-125 of the DEIR, Section 4.9.4, *final paragraph on page, is revised as follows, as described in Global Response Water-5 of Section 7.2:*

Three projections of project-related water use in 2035 based on the Applicant's demand estimates were developed to analyze a range of potential water demand and supply outcomes. All of the scenarios assume that the amount of produced water generated by oil and gas exploration and

production would increase by ~~38~~37% by 2035 from 2012 levels. The three scenarios focus on potential variation in the amount of surface pond disposal, injection well disposal, and reuse of produced water that could occur under future conditions. The 2035 scenarios are summarized in Table 4.9-27.

Pages 4.9-127 through 4.9-128 of the DEIR, Section 4.9.4, *final paragraph on page 4.9-127, is revised as follows, as described in response 0003-047 of Section 7.2:*

As discussed in Section 4.17, Utilities and Service Systems, the increased use of treated produced water to offset oil and gas M&I water use by 2035 might be pursued under the auspices of California's new Sustainable Groundwater Management Act, which requires that a groundwater sustainability plan be adopted for the project area by 2020, or by agreement between oilfield operators and other users. The feasibility of achieving the results in Scenario 3, and the extent to which additional produced water could be reused to offset oil and gas M&I water use in the Project Area, depends on several factors, including produced water quality, treatment costs and requirements, the availability of conveyance capacity to route produced water to and from treatment facilities, and the availability of institutional mechanisms for managing produced water treatment and distribution. As discussed above, the CVRWQCB has determined that, in certain instances, even relatively high-quality produced water available from certain oilfields in the Eastern Subarea has, on occasion, not met applicable arsenic or oil and grease water quality standards. Additional management measures, including percolation into water banking facilities, have been required to address these water quality concerns (CVRWQCB Order R5-2011-0900 and CVRWQCB Order R5-2012-0058). The reuse of additional produced water, particularly supplies with lower quality than available in the Eastern Subarea, could require more intensive, technically demanding and more costly forms of treatment. It is possible that treatment requirements could have other environmental effects related to increased energy use and air quality and greenhouse gas emissions, or post-treatment waste stream disposal. ~~Although the Kern Tulare Water District has proposed to use 8,000 AF per year of treated produced water in the Western Subarea, no agreements to reuse produced water for agriculture other than with the CWD have been approved and implemented in the Project Area.~~

Pages 4.9-127 through 4.9-128 of the DEIR, Section 4.9.4, *final paragraph on page 4.9-127, is revised as follows, as described in response 0003-047 of Section 7.2:*

As discussed in Section 4.17, Utilities and Service Systems, the increased use of treated produced water to offset oil and gas M&I water use by 2035 might be pursued under the auspices of California's new Sustainable Groundwater Management Act, which requires that a groundwater sustainability plan be adopted for the project area by 2020, or by agreement between oilfield operators and other users. The feasibility of achieving the results in Scenario 3, and the extent to which additional produced water could be reused to offset oil and gas M&I water use in the Project Area, depends on several factors, including produced water quality, treatment costs and requirements, the availability of conveyance capacity to route produced water to and from treatment facilities, and the availability of institutional mechanisms for managing produced water treatment and distribution. As discussed above, the CVRWQCB has determined that, in certain instances,

even relatively high-quality produced water available from certain oilfields in the Eastern Subarea has, on occasion, not met applicable arsenic or oil and grease water quality standards. Additional management measures, including percolation into water banking facilities, have been required to address these water quality concerns (CVRWQCB Order R5-2011-0900 and CVRWQCB Order R5-2012-0058). The reuse of additional produced water, particularly supplies with lower quality than available in the Eastern Subarea, could require more intensive, technically demanding and more costly forms of treatment. It is possible that treatment requirements could have other environmental effects related to increased energy use and air quality and greenhouse gas emissions, or post-treatment waste stream disposal. ~~Although the Kern Tulare Water District has proposed to use 8,000 AF per year of treated produced water in the Western Subarea, no agreements to reuse produced water for agriculture other than with the CWD have been approved and implemented in the Project Area.~~

Page 4.9-128 of the DEIR, Section 4.9.4, *first full paragraph on page, is revised as follows, as described in response 0003-048 of Section 7.2:*

Oil and gas operators may be able to substitute additional produced water for M&I supplies to conduct certain oilfield activities, including EOR and steam production. EOR activities currently account for the largest share of oil and gas M&I water use. Certain EOR operations, such as steam generation, may require higher-quality water supplies than can be typically be obtained from treated produced water to avoid equipment corrosion or damage and potential chemical interactions. The use of produced water for other oilfield activities, such as discharge for dust suppression, would require additional permitting and approvals to avoid impacts to biological, surface water, groundwater and other resources. The extent to which oilfield operators can feasibly increase produced water reuse and decrease M&I demand is uncertain. The Project Applicant has estimated that up to 1,200 well stimulation treatment operations subject to California's SB-4 regulations could occur per year, including 1,050 stimulations in the Western Subarea (88% of the total number of stimulations), 125 in the Central Subarea (10% of the total number of stimulations), and 25 in the Eastern Subarea (2% of the total number of stimulations). About 90.1% of all well stimulation treatments (1,081) would be located in existing Tier 1 production areas, and 6.3% (76) would be located in Tier 2. About 2,231 wells would be plugged and abandoned in accordance with DOGGR regulations each year, including 1,839 wells in the Western Subarea (82% of the total wells), 38 in the Central Subarea (2%), and 354 (16%) in the Eastern Subarea. About 90.1% of all new plugged and abandoned wells (2,010 wells) would be located in existing Tier 1 production areas, and 6.3% (141 wells) would be located in Tier 2.

Page 4.9-133 of the DEIR, Section 4.9.4, *first full paragraph on page, is revised as follows, as described in response 0003-049 of Section 7.2:*

~~DOGGR regulations require the preparation of spill contingency plans (in addition to federal requirements, if applicable, to develop SPCC plans to prevent discharges to waters of the United States), secondary containment for stored materials onsite, 24-hour notice of spills to the DOGGR, or immediate notification in certain circumstances, and fluid and chemical storage and handling equipment inspections and maintenance. As discussed in Section 4.8, Hazards and Hazardous~~

~~Materials, surface containment vessels and secondary containment facilities must be maintained to applicable standards to prevent the accidental discharge of fluids recovered from well operations, including fluid and chemical transport and mixing operations. The API and other sources of applicable industry engineering standards publish and regularly update oil and gas industry standards and criteria for construction period fluid mixing, storage, handling, and conveyance equipment.~~ Oil field related spills reported to DOGGR by operators are also reported to the Office of Emergency Services (OES) within 24 hours. CVRWQCB, including other agencies is immediately notified by OES via e-mail describing location, contact names and phone numbers, nature and volume of the spilled materials, and other related details. Depending on the spill/leak conditions, CVRWQCB staff may conduct an inspection to document conditions observed and evaluate the likelihood of the spill affecting surface and/or groundwater. A written inspection report is completed with photographs and possibly including soil/water sample results.

Page 4.9-137 of the DEIR, Section 4.9.4, *beginning at the first full paragraph on page, is revised as follows, as described in Global Response Water-5 of Section 7.2:*

As shown in Table 4.9-1, produced water accounts for the largest volume of fluids generated by oil and gas exploration and production activities in the Project Area. Over 234,000 AF of produced water was extracted in 2012, and by 2035 the annual amount of produced water could increase to nearly 322,000 AF (Table 4.9-27). All three of the 2035 scenarios in Table 4.9-27 project that oil and gas industrial demand for produced water would increase from 88,812 AF to 121,412 AF over the same period. Most of this demand would be met by using treated produced water for EOR steam and water injection. Scenarios 1 and 2 assume that 38,658~~32,771~~ AF per year of produced water, all in the Eastern Subarea, would continue to be treated and used for agricultural irrigation. Scenario 3 projects that agricultural reuse could increase to 50,419~~44,532~~ AF if about 7% of the produced water that would otherwise be disposed in 2035 was treated and made available for reuse. As discussed above and in Section 4.17, Utilities and Service Systems, the increased use of produced water summarized in Scenario 3 could be pursued in part under the auspices of the groundwater sustainability planning process that must be completed for aquifers in the Project Area by 2020, but the feasibility of reusing significant additional amounts of produced water is uncertain due to potential water quality, treatment, conveyance and other potential constraints.

Disposed produced water volumes vary in each scenario depending on the extent to which surface disposal into ponds would be curtailed over time and, in Scenario 3, whether additional volumes of produced water are reused. Scenario 1 assumes that the relative volumes of produced water disposed to surface ponds and by underground injection, and the amount of agricultural reuse, remains constant over time. About 161,824 ~~167,711~~ AF of produced water would be disposed under these assumptions compared with ~~114,794~~115,502 AF in 2012, including 42,285 AF~~41,806~~ disposed to ponds, and 119,539~~125,905~~ AF disposed by injection (Table 4.9-27). As discussed in the Basin Plan surface disposal is known to have impacted groundwater quality, and oil and gas operators have been utilizing injection for disposal to a much greater extent since 2001. Scenario 2 shows that if surface disposal volumes are reduced by 50% from 2012 levels, surface ponds would account for 15,466~~15,112~~ AF of produced water disposal, and injection disposal would increase to 146,358~~152,600~~ AF by 2035. Scenario 3 assumes surface disposal is reduced to 90% below 2012

levels and that additional produced water reuse would offset oil and gas industry M&I demand by 2035. Under these assumptions, surface disposal would fall to 3,0933,022 AF and injection disposal would be 146,970152,928 AF in 2035.

Pages 4.9-139 through 4.9-141 of the DEIR, Section 4.9.4, *beginning at the second full paragraph on page 4.9-139, is revised as follows, as described in Global Response Water-5:*

As shown in Table 4.9-1, 38,658 32,771 AF of produced water was supplied to the Cawelo Water District (CWD) and other users in the Eastern Subarea for agricultural irrigation in 2012. The water is treated by oil and gas operators prior to delivery to remove certain constituents, including oil and grease and dissolved solids. The treated water used by CWD (37,107 AF in 2012) is conveyed through a system of canals and pipelines to CWD reservoirs, blended to further reduce constituent concentrations, and discharged for irrigation. As discussed above, the use of the treated produced water in the Project Area for agricultural irrigation is subject to permits issued by the CVRWQCB, and in certain instances, has exceeded allowable limits for arsenic and oil and grease. The permits require water quality monitoring, and corrective action, including percolation into water banking facilities to filter arsenic from the banked water, has been implemented to ensure compliance. Scenarios 1 and 2 are based on applicant projections that the current level of produced water use for agriculture would remain unchanged through 2035. Under these assumptions, the Project would not change, and would not result in any impacts to, existing produced water reuse for agriculture.

As discussed in more detail in Section 4.17, Utilities and Service Systems, California is experiencing a severe drought and has implemented unprecedented water use reduction measures to address historically low snowpack and rainfall levels. The drought has had substantial impacts in Kern County, which relies on imported surface water and groundwater to meet urban and agricultural demand. Due to drought-related reductions in surface water availability, regional aquifers have been depleted by extractions in lieu of surface water use to a substantial extent (DWR 2014). As shown in the regional water supply and demand projections, Project Area demand is projected to significantly exceed supplies in single dry and multiple dry years through 2035. The projections do not assume that the implementation of the new GSP process in the Project Area may reduce groundwater extraction levels to achieve legally applicable aquifer sustainability requirements. Should groundwater extractions be further limited by the GSP, the supply shortfalls could be greater than anticipated.

The amount of produced water that is not reused but is instead disposed to surface ponds or by injection in the Project Area is projected to increase from 114,794115,502 AF in 2012 to 161,824167,711 AF by 2035 in Scenarios 1 and 2 (Table 4.9-27). The feasibility of treating and reusing produced water that would otherwise be disposed of, in order to reduce regional demands for surface water and groundwater, varies throughout the Project Area due to such factors as the water quality of produced water from specific formations, the technical feasibility and cost of suitable treatment, the proximity of production wells to potential users, and the availability of storage, conveyance, treatment and related facilities. The reuse of about 7% of the amount of produced water that is projected to be disposed of in 2035 would fully offset all of the oil and gas industry's projected M&I water demand of 11,761 AF in that year. As discussed above and in

Section 4.17, Utilities and Service Systems, however, the extent to which additional produced water can be reused is uncertain. It is possible that a regional approach for exploring the cost and feasibility of achieving this additional level of produced water reuse could be implemented as a component of the groundwater sustainability planning process. At least one Project Area water district has announced plans and has initiated the CEQA review process for the potential use of up to 8,000 AF of produced water in the Western Subarea. All produced water treatment and reuse for agricultural irrigation or other reuse that involves discharges to land is subject to regulation by the CVRWQCB.

Produced Water Conveyance and Disposal in Earthen Disposal and Percolation Ponds

As discussed above, the Basin Plan states that the disposal of produced water to earthen, unlined ponds in Project Area has impacted groundwater quality. The CVRWQCB has issued closure and monitoring orders for several ponds, primarily in the Western Subarea, where water quality impacts have been detected from pond use. The CVRWQCB is currently evaluating the location, identification, status and use of unlined ponds within the Project Area and has announced that it would increase the inspection of, update applicable permits for, or potentially require closure of many of these facilities.

As shown in Table 4.9-1, 30,931~~30,223~~ AF of produced water was disposed to surface ponds in the project area during 2012. As shown in Table 4.9-27, the total amount of produced water generated in the Project Area is projected to increase by about 37% by 2035.

Scenario 1 projects that if surface disposal volumes increase to the same extent, 42,285~~41,806~~ AF would be disposed to surface ponds in 2035, an increase of over 10,000 AF from 2012. Water quality impacts from the increased use of ponds that the CVRWQCB has determined to have affected groundwater quality would be significant without mitigation.

Scenario 2 assumes that surface disposal volumes are reduced to 50% of 2012 levels, or to 15,466 ~~15,112~~ AF by 2035. Potential water quality impacts from pond use would be lower than under Scenario 1, but not necessarily avoided.

Scenario 3 assumes that surface disposal is reduced to 90% below 2012 levels or to 3,093 ~~3,022~~ AF in 2035. This level of sump disposal could reflect the limited use of surface facilities in relatively rare and unavoidable circumstances in the future. Potential water quality impacts from pond use levels in Scenario 3 would be lower than under Scenario 1, and Scenario 2, but impacts to groundwater quality could still occur from the remaining disposal to unlined surface impoundments. The extent to which surface disposal can be reduced by 90% as projected in Scenario 3 is uncertain.

Produced Water Conveyance and Disposal in Injection Wells

As discussed above, the Basin Plan states that, in lieu of ponds for disposal, oil and gas operators are increasingly discharging produced water to Class II injection wells. Table 4.9-19 shows that the

volume of produced water disposed by injection wells in the Project Area rose from 32,059 AF in 2001 to 86,294 AF per year in 2013, a 269% increase.

The volume of produced water discharged to Class II injection wells is expected to increase by 2035 under all three scenarios. Scenario 1 shows that if 2012 surface and well injection disposal volumes increase by 37%, given the anticipated growth in total produced water generation for the Project Area, 119,539~~125,905~~ AF would be injected in 2035, an increase of ~~over~~ just under ~~41~~35,000 AF from 2012. Scenario 2 shows that, if surface disposal volumes are reduced to 50% of 2012 levels, produced water disposal by injection wells would increase to 146,358~~152,600~~ AF by 2035. Scenario 3 shows that if surface disposal is reduced by 90% below 2012 levels, and produced water reuse for agricultural irrigation increases to 50,419~~44,532~~ AF, 146,970~~152,928~~ AF of produced water would be disposed in injection wells by 2035.

Pages 4.9-149 through 4.9-150 of the DEIR, Section 4.9.4, *beginning at the top of page 4.9-149, is revised as follows, as described in Global Response Water-5 in section 7.2:*

Produced water is extracted from oil-bearing formations in the Project Area and separated in tanks or other facilities to recover oil and gas. As shown in Tables 4.9-20 and 4.9-21, produced water quality varies throughout the Project Area and reflects formation- and site-specific chemical, hydrological, geological and other physical characteristics. Most produced water is saline and contains naturally-occurring hydrocarbon-related constituents, such as oil and grease, chloride, boron, benzene, toluene, ethylbenzene and xylene levels that preclude reuse for other purposes, including agricultural, residential, commercial or industrial uses, without substantial treatment. Produced water generated in the Eastern Subarea oilfields near the base of the Sierra Nevada foothills is generally higher in quality than in other Project Area locations, and 38,658~~32,771~~ AF per year of treated produced water ~~is~~ was supplied to the CWD for agricultural reuse under the terms of WDR permits issued by the CVRWQCB and other users in 2012. Although the produced water supplied to CWD is blended with other CWD supplies to further dilute post-treatment constituent levels, the CVRWQCB has required additional water quality control measures, including the infiltration of excess treated produced water supplies during winter months into a groundwater banking facility to remove naturally-occurring arsenic prior to irrigation use. Consequently, the reuse of even relatively high quality produced water requires significant treatment, blending, and continuous monitoring and management response to meet applicable water quality standards and requirements.

Other than reuse for oil and gas activities, and treated produced water used for agriculture in the Eastern Subarea, water resources in Project Area hydrocarbon-bearing formations do not support any existing land uses or planned uses in the Project Area. No drinking water, agricultural or other M&I water supply wells are located, or are likely to be installed in hydrocarbon-bearing formations due to the infeasibility and cost of treatment sufficient to render the water suitable for reuse. Oil and gas activities that cycle water from and to hydrocarbon-bearing formations are unlikely to impact the supply and recharge of groundwater that could be feasibly used for agricultural or M&I purposes.

Most of the water extracted from oil-bearing formations is also returned to the same or similar zones in the Project Area. As shown in Table 4.9-29, about 41% of the volume of produced water generated in the Project Area in 2012 was reinjected for EOR purposes. The same percentage of produced water is projected to be used for EOR purposes under future conditions. The percentage of produced water and other permitted wastes disposed by injection in 2035 is expected to increase from 2012 levels and could vary from ~~39~~37% of the annual volume of produced water generated in the Project Area in Scenario 1, to ~~48~~46% in Scenario 3. Consequently, depending on the reuse of produced water, oil and gas operations would re-inject ~~80~~ 78 to ~~88~~87% of the volume of produced water generated each year in the Project Area.

Table 4.9-29: Produced Water Generation and M&I Water Use, 2012-2035 (AF)

	2012	Scenario 1 Pro-Rata Increase	Scenario 2 50% Surface Disposal Reduction	Scenario 3 Full M&I Water Use Offset and 90% Surface Disposal Reduction
Total produced water generation	**234,959**	**321,894**	**321,894**	**321,894**
Total EOR Injection (produced water and M&I water sources)	**95,947**	**130,969**	**130,969**	**130,969**
Produced water EOR	88,668	121,215	121,215	121,215
M&I water EOR	7,279	9,754	9,754	9,754
Percent of Total Produced Water Generation	**41%**	**41%**	**41%**	**41%**
Injection Well Disposal	**84,571**	119,539**~~125,905~~**	146,358**~~152,600~~**	146,970**~~152,928~~**
Percent of Total Produced Water Generation Disposed by Injection Well	**36%**	**37%~~39%~~**	**45%~~47%~~**	**46%~~48%~~**

Page 4.9-144 of the DEIR, Section 4.9.4, *final paragraph on page, is revised as follows, as described in response 0003-051 of Section 7.2:*

Once an application has been deemed complete by DOGGR, a well operator must hire an independent entity or person to provide notification to every tenant and owner of neighboring property within a specified distance from the wellhead and horizontal projection of the applicable well at least 30 days prior to commencing a well stimulation treatment. Notified property owners may request baseline and follow-up water quality testing of their domestic and/or agricultural well(s) at the operator's expense, and prior notice of any such testing must be provided to the applicable RWQCB to allow for the opportunity to observe the water sampling process. Well operators must also pressure-test a well and meet certain integrity requirements prior to commencing a well stimulation treatment. An operator may conduct the stimulation activity identified in an approved application and notice within one year from DOGGR approval.

Page 4.9-146 of the DEIR, Section 4.9.4, *is revised as follows, as described in section 7.1.4 and in response to comment 0002-114 of Section 7.2:*

MM 4.9-1 The Applicant shall comply with all applicable federal, state, regional and local agency water quality protection laws and regulations, and commonly utilized industry standards, including (where applicable) obtaining coverage under the stormwater construction general permit and industrial general permit issued by the State Water Resources Control Board and complying with industry stormwater management standards for construction and operational activities. The applicant shall obtain all required permits from Division of Oil Gas and Geothermal Resources, and such permits shall include measures that will safeguard protected groundwater with appropriate casing, seal and related down-hole technical specifications.

Page 4.9-146 of the DEIR, Section 4.9.4, *final paragraph on page, is revised as follows, as described in section 7.1.2 and responses to comments 0002-192, 0003-017 and 0003-052 of Section 7.2 (note that this measure has been further revised as shown in section 12.1.3 above and 12.4.2 below):*

MM 4.9-2 A. Oil and Gas activities in Tier I shall comply with the following.

1. In areas subject to National Pollutant Discharge Elimination System stormwater permitting requirements, project applicants shall file a Notice of Intent to the State Water Resources Control Board to comply with the statewide General Permit for Discharges of Stormwater Associated with Construction Activities (Construction General Permit State Water Resources Quality Control Board Order No 2009-009-DWO) prior to undertaking all ground-disturbing activities greater than one acre and shall prepare and implement a Stormwater Pollution Prevention Plan for construction activities on the Project site in accordance with the Construction General Permit. For facilities requiring coverage under the Construction General Permit, the site specific Stormwater Pollution Prevention Plan shall include measures to achieve the following objectives: (1) all pollutants and their sources, including sources of sediment associated with construction activity are controlled; (2) all non-stormwater discharges are identified and either eliminated, controlled and treated, (3) site Best Management Practices are effective and result in the reduction or elimination of pollutants in stormwater discharges and authorized non-stormwater discharges from construction activity and (4) stabilization Best Management Practices to reduce or eliminate pollutants after construction are completed. The Stormwater Pollution Prevention Plan shall be prepared by a qualified preparer and shall include the minimum Best Management Practices required for the identified risk level. The Stormwater Pollution Prevention Plan shall include a construction site monitoring program that identified requirements for dry weather visual observations of pollutants at all discharge locations and , as appropriate, depending on the project risk level,

sampling of site effluent and receiving waters. A qualified Stormwater Pollution Prevention Plan practitioner shall be responsible for implementing and all monitoring for the Best Management Practices as well as all inspection, maintenance and repair activities at the project site. If applicable, each project shall also implement and fully comply with the Industrial Storm Water Permit (Order No 97-03-DWO) and Kern County Municipal Stormwater Permit (Order No 5-01-120). All plans under these requirements shall be submitted to Kern County Public Works for review and approval.

Any operator of a facility that meets the following requirements is not required to be covered by the Construction General Permit (State Water Regional Control Board Memorandum dated 5-18-2010):

a. discharges of stormwater runoff from oil and gas exploration, production, processing or treatment operations or transmission facilities, including field activities or operations that may be considered construction activity;

i. are not contaminated by contact with, or do not come into contact with, any overburden, raw material, intermediate products, finished product, byproduct or waste products;

ii. are only contaminated by or only come into contact with sediment; and

iii. pursuant to 40.C.F.R. § 122.26(c)(1) (iii) that do not contribute to a violation of a water quality standard.

Any change to this State Water Regional Control Board determination will require full compliance with National Pollutant Discharge Elimination System requirements.

2. Any operator not subject to National Pollutant Discharge Elimination System stormwater permitting requirements shall implement Best Management Practices during construction and operation. All selected practices shall be shown on a drainage implementation plan and self-certified as complete and feasible by a licensed professional qualified in drainage and flood control issues. The plan shall be submitted to the Kern County Planning and Community Development department.

The following Best Management Practices shall be implemented and shown on the drainage implementation plan :

a. Utilizing established facilities design, construction or similar standards as appropriate (e.g.American Society for the Testing and Materials (ASTM) American Petroleum Institute (API)

b. Implementation good housekeeping and maintenance practices:

i. Preventing trash, waste materials and equipment from construction storm water.

ii. Maintaining wellheads, compressors, tanks and pipelines in good condition without leaks or spills.

iii. Designing and maintaining graded pads to not actively erode and discharge sediment

iv. Maintaining vehicles in good working order

v. Providing secondary containment for all –above –ground storage tanks and maintaining such containment features in good operating condition

c. Implementing spill prevention and response measures

i. Utilizing preventative operating practices such as tank level monitoring, safe chemical handling and conducting regular inspections.

ii. Developing and maintaining a spill response plan

iii. Conducting spill response training for employees and have a process to ensure contractors have the necessary training

iv. Maintaining spill response equipment on site.

d. Implementing material storage and management practices:

i. Preventing unauthorized access

ii. Utilizing "run-on" and "run-off" control berms and swales

iii. Stabilizing exposed slopes through vegetation and other appropriate methods (e.g., hay bales or rolls).

B. Oil and gas activities in Tier 1 shall comply with all applicable state and federal stormwater management laws. For any oil and gas activity outside Tier I that is not subject to state or federal stormwater management laws, regulations or general permits, the Applicant shall prepare a drainage plan that is designed to minimize runoff and minimize the potential for impeding or redirecting 100-year flood flows. The drainage plan shall be prepared in accordance with the Kern County Grading Code, the Green Code and approved by the ~~Kern County Engineering, Surveying and Permit Services Department~~Kern County Public Works Department, Floodplain Management Section. The plan shall specify best management practices to prevent all construction pollutants from contacting stormwater, with the intent of keeping sedimentation or any other pollutants from moving offsite and into receiving waters. The requirements of the Plan shall be incorporated into design specifications. Recommended best management practices for the construction phase must be shown on a drainage plan, and shall include the following:

a. Erosion Control -

Scheduling of construction activities to avoid rain events.

Limiting vegetation removal to the ~~maximum extent practicable~~minimum required.

b. Sediment Control -

1. Secure stockpiling of soil.
2. Installation of a stabilized construction entrance/exit and stabilization of disturbed areas.

c. Non-stormwater Control -

1. Proper fueling and maintenance of equipment and vehicles.
2. Proper concrete handling techniques.

d. Waste and Material Management -

1. Properly managing construction materials, designating construction staging areas in or around the Project site.
2. Stockpiling and disposing of demolition debris, concrete, and soil properly.
3. A~~ggressive control~~ Prompt removal and proper disposal of litter.
4. Proper disposal of demolition debris, concrete and soil.
5. Proper protections for fueling and maintenance of equipment and vehicles.
6. Provide and maintain adequate secondary containment to minmize or eliminate pollutants from moving offsite and into receiving waters.

e. Post-Construction Stabilization -

1. Ensuring the stabilization of all disturbed soils per revegetation or application of a soil binder.

C. If construction activities will alter federal jurisdictional waters, project applicants shall comply with the federal Clean Water Act Section 404 and Section 401 permitting and certification requirements. If construction activities will alter state waters, project applicants shall comply with California Department of Fish and Wildlife Streambed Alteration requirements.

Page 4.9-147 of the DEIR, Section 4.9.4, *is revised as follows, as described in section 7.1.4 and responses to comments 0002-056, 0002-123, 0003-012, and 0003-016 of section 7.2:*

MM 4.9-3 All drilling operations must either use a closed loop system to avoid discharges of drilling muds and fluids, or obtain coverage under the State Water Resources

Control Board low threat discharge General Order (Waste Discharge Requirements General Order 2003-0003-DEW), obtain individual Waste Discharge Requirements issued by the Central Valley Regional Water Quality Control Board for the unit, or obtain coverage under a general order issued by the Central Valley Regional Water Quality Control Board applicable to drilling ponds. Any surface ponds or sumps must be cleared of fluids and muds in accordance with the State Water Resources Control Board general order, applicable Water Discharge Requirements and Division of Oil Gas and Geothermal Resources regulations. Compliance with the State Water Resources Control Board or Central Valley Regional Water Quality Control Board low-threat discharge orders or Water Discharge Requirements, if closed-loop systems are not used, and applicable laws, regulations and standards will reduce potential surface water quality impacts from contact with drilling muds or fluids during drilling and construction to less than significant levels.

After consultation with and approval by the Regional Water Board with jurisdiction over injection and groundwater, applicant shall provide for a tracer or some other reasonable method to allow well stimulation fluids to be distinguished from other fluids or chemicals for well stimulation permits. This could consist of an added tracer using an inert constituent that could be used to identify the presence of well stimulation fluids. Alternatively, it could be an intrinsic tracer, or some naturally occurring component that makes the well stimulation fluids chemically unique. Potential geochemical changes in the subsurface during injection or migration shall be considered. Use of a tracer shall be required to be disclosed to the public under Section 1788 of the SB 4 regulations. The regulations specifically require that the applicant require the composition and disposition of all well stimulation treatment fluids other than water, including "any radiological components or tracers injected into the well as part of the well stimulation treatment, a description of the recovery method, if any, for those components or tracers, the recovery rate, and specific disposal information for the recovered components or tracers a radiological component or tracer injected" (Section 1788 (15)).

For any well stimulation treatment activity, the applicant shall not conduct well stimulation treatment activity until the State Water Resources Control Board, in consultation with the Central Valley Regional Water Quality Control Board, has approved either a groundwater monitoring plan or exclusion from groundwater monitoring for a given well, consistent with the State Water Resources Control Board Model Criteria for Groundwater Monitoring in Areas of Oil and Gas Well Stimulation.

***Page 4.9-147 of the DEIR, Section 4.9.4**, is revised as follows, as described in section 7.1.4 and in response to comment 0003-015 of Section 7.2:*

~~MW~~ MM 4.9-4 For any activity for which Chapter 19.98 applies, the Applicant shall not conduct any Class II injection activity regulated by the Underground Injection Control

program, including enhanced oil recovery activities that discharge into any underground source of current or future beneficial use groundwater, including drinking water unless the aquifer has been exempted by the United States Environmental Protection Agency or injection has otherwise been authorized by the U.S. Environmental Protection Agency or by the Division of Oil Gas and Geothermal Resources ~~under delegated authority under the Safe Drinking,~~ in consultation and agreement by the State Water ~~Act~~Resources Control Board, consistent with Public Resources Code 3131.

Page 4.9-147 of the DEIR, Section 4.9.4*, is revised as follows, as described in section 7.1.4 and in responses to comments 0002-194 and 0003-053 of section 7.2*:

~~MW~~ MM 4.9-5 For any activity for which Chapter 19.98 applies, the Applicant shall not discharge produced water into any surface disposal facility unless the facility has received the Waste Discharge Requirements from the Central Valley Regional Water Quality Control Board, or the need for Water Discharge Requirements has been waived by the Central Valley Regional Water Quality Control Board. As required by the SB 4 regulations, well stimulation treatment fluids and produced fluids from wells that have been stimulated cannot be stored, discharged, or disposed into surface ponds or pits.

Page 4.9-147 of the DEIR, Section 4.9.4*, is revised as follows, as described in section 7.1.4 and in responses to comments 0014-001 and 0014-002 of section 7.2:*

MM 4.9-6 For any oil and gas activity within a ~~mapped 100-year floodplain~~Special Flood Hazard Area, the Applicant shall ensure that all constructed facilities are ~~protected from the maximum potential elevation of flooding during a 100-year flood by elevating structures~~elevated or ~~by implementing containment berms or other protective measures~~floodproofed in compliance with the requirements and standards found in the Kern County Floodplain Management ~~Code~~ Ordinance and Chapters 19.50 and 19.70 of the Kern County Zoning Code.

Page 4.9-152 of the DEIR, Section 4.9.4, *final paragraph on page, is revised as follows, as described in response to comment 0003-051 of Section 7.2:*

The new state laws and DOGGR well stimulation regulations require that certain physical well inspections, documentation, and public notices and disclosures be completed prior to and after completing a well stimulation process. Each well operator must obtain a permit from DOGGR in advance of performing a well stimulation treatment. Once an application has been deemed complete by DOGGR, a well operator must hire an independent entity or person to provide notification to every tenant and owner of neighboring property within a specified distance from the wellhead and horizontal projection of the applicable well at least 30 days prior to commencing a well stimulation treatment. Notified property owners may request baseline and follow-up water quality testing of their domestic and/or agricultural well(s) at the operator's expense, and prior notice of any such testing must be provided to the applicable RWQCB to allow for the opportunity to observe the water sampling process. Well operators must also pressure-test a well and meet certain integrity

requirements prior to commencing a well stimulation treatment. An operator may conduct the stimulation activity identified in an approved application and notice within one year from DOGGR approval. DOGGR regulations require the operator to monitor the surface injection pressure, slurry rate, proppant concentration, fluid rate, and pressure of each annuli of the well during a well stimulation treatment. Well monitoring must continue after each stimulation treatment, including pressure data and diagnostic testing, to verify that the well has not been breached and operators take all appropriate measures to prevent contamination of protected waters. Materials used in well stimulation are subject to storage, handling and reporting requirements. The new regulations require that each well operator disclose, within 60 days after a well stimulation treatment is completed, information regarding the source, volume and composition and disposition of well stimulation fluids, including flowback fluids collected at the wellhead.

Pagess 4.9-153 through 4.9-155 of the DEIR, Section 4.9.4, *beginning at the third full paragraph on page 4.9-153, is revised as follows, as described in Global Response Water-5, and response to comment 0003-054, in Section 7.2:*

In ~~2012~~2015, oil and gas exploration and production M&I water use ~~accounted~~ would account for less ~~than 1%~~about 0.34% of all agricultural and M& I water use in the Project Area and is projected to increase to about 0.40% ~~to about 1.2%~~ of total Project Area agricultural and M& I water use by 2035 (see Table 4.17-31). Assuming all M&I use was obtained from groundwater, oil and gas consumption would account for about ~~2%~~ 0.74% of existing normal year Project Area groundwater use in ~~2012~~2015, and ~~2.8~~0.90% by 2035 (see Table 4.17-34). The Groundwater Sustainability Management Act requires that a GSP for the Project Area must be adopted by 2020 to ensure that, over a period of 20 years, "sustainable groundwater management" is achieved. As discussed above, a GSP process has never previously been implemented in California, and regulations for the preparation of a GSP have yet to be adopted by the DWR. It is possible that groundwater use in the Project Area may be reduced from historical levels in accordance with the GSP to achieve the sustainable groundwater management requirements mandated by the new state legislation.

As discussed in Section 4.17, Utilities and Service Systems, although oil and gas use of groundwater is relatively small compared with total water and groundwater use, the volume of the industry's 2012 M&I water consumption amounted to about 4% of the total urban water demand in 2012 (8,778 AF compared with 217,226 AF for Project Area urban uses) and would be about 3.9% of projected urban demand in 2035 (11,761 AF compared with 301,736 AF for Project Area urban uses). The analysis summarized in Appendix T indicates that normal year Project Area water demand is roughly equal to available supplies under current conditions. In single dry and multiple dry years, the Project Area would experience significant supply shortfalls that could range from -315,626 AF to -817,127 AF by 2035, depending on hydrologic conditions (see Section 4.17, Utilities and Service Systems). These projections assume current levels of groundwater extraction will continue in the future, although extraction rates may be reduced by the GSP to meet statutory groundwater sustainability requirements. If groundwater extractions are more limited in the future, the supply shortfalls could be larger than projected. Under these circumstances, oil and gas exploration and production groundwater use, including an increase from 2012 levels of over 2,980

AF per year by 2035, would significantly affect available groundwater supplies in the Project Area on a Project-level and cumulative basis.

As discussed in Section 4.17, Utilities and Service Systems, potential groundwater impacts would be mitigated to less than significant levels if sufficient amounts of produced water otherwise subject to disposal were treated and reused to offset the consumption of M&I water for oil and gas exploration and production. As shown in Table 4.9-27, the industry's M&I water use is projected to be 11,761 AF, and the total volume of disposed produced water in Scenarios 1 and 2 would be 161,824~~167,711~~ AF in 2035. About 7% of the amount of produced water that is projected to be disposed of in 2035 would be required reuse to fully offset oil and gas M&I demand in that year. It is possible that a portion of this offset could be achieved by agreement between individual oilfield operators and Project Area water districts. As discussed above, the Kern-Tulare Water District is evaluating the possibility of using 8,000 AF per year of produced water supplied from the Western Subarea oilfields. In addition, a regional produced water reuse strategy that could identify and utilize higher quality produced water, primarily within the Eastern Subarea where better quality produced water is available, to minimize treatment requirements and maximize the use existing conveyance and other infrastructure could be implemented under the auspices of the GSP. The GSP could also facilitate a regional mechanism for allocating the costs and managing the construction and operation of treatment, conveyance or other facilities that would be required to significantly increase produced water reuse. Oilfield operators could also utilize more produced water for well construction and steam production purposes to reduce M&I demand.

As discussed above and in Section 4.17, Utilities and Service Systems, the feasibility of achieving additional produced water reuse to offset oil and gas M&I water use in the Project Area, depends on several factors, including produced water quality, treatment costs and requirements, the availability of conveyance capacity to route produced water to and from treatment facilities, and the availability of institutional mechanisms for managing produced water treatment and distribution. As discussed above, the CVRWQCB has determined that, in certain instances, even relatively high-quality produced water available from certain oilfields in the Eastern Subarea has, on occasion, not met applicable arsenic or oil and grease water quality standards. Additional management measures, including percolation into water banking facilities, have been required to address these water quality concerns (CVRWQCB Order R5-2011-0900 and CVRWQCB Order R5-2012-0058). The reuse of additional produced water, particularly supplies with lower quality than available in the Eastern Subarea, could require more intensive, technically demanding and more costly forms of treatment. It is possible that treatment requirements could have other environmental effects related to increased energy use, air quality, and GHG emissions, or post-treatment waste stream disposal. Although the Kern-Tulare Water District has proposed to use 8,000 AF per year of treated produced water ~~in the Western Subarea~~, no agreement to reuse produced water for agriculture other than with the CWD, and smaller amounts supplied to other users, including about 1,460 AF used by Jasmine Fields and 91 AF used by Concordia Fields for agriculture in 2012 (see Appendix T-1, Table 28, note 3) has been approved and implemented in the Project Area.

Page 4.9-176 of the DEIR, Section 4.9.4*is revised as follows, as described in response to comment 0003-058 of Section 7.2:*

Figure 4.9-11: ~~Approved Groundwater Beneficial Use~~Locations of Exempted Aquifer s~~Exemptions~~

Page 4.12-22 through 4.12-23, Section 4.12.4 of the DEIR, is revised as follows, as described in section 7.1.4 and in Global Response Noise-1 in section 7.2:

MM 4.12-1 Construction:

The Site Plan Application shall include a Site Vicinity Figure showing the location of any sensitive receptor(s) within ~~3,000 feet~~the distances listed in the construction noise setbacks table, as shown below, of the construction site (potential impact area) for the proposed new well or other ancillary facility or equipment (excluding pipelines). This Figure need not be prepared for Tier 1 areas unless a sensitive receptor is located within ~~3,000~~270 feet of a construction site inside the Tier 1 area.

a. If there are no sensitive noise receptors within this potential impact area, then no construction mitigation measures shall be required.

b. If there are sensitive human noise receptors within the potential impact area, then additional information must be provided showing the type of equipment being used and the noise contours with levels not exceeding 65 ~~dBA~~ dB DNL at the nearest exterior wall of the sensitive receptor or more than 1 ~~dBA~~ dB DNL higher than the ambient noise levels, if in excess of 65 ~~dBA~~dB DNL. If noise levels are shown to exceed 65 ~~dBA~~ dB DNL or more than 1 ~~dBA~~ dB DNL higher than the ambient noise levels in excess of 65 ~~dBA~~dB DNL, then one or more of the following mitigation measures shall be taken:

1. Placement of a temporary sound attenuation wall(s) shall be placed at the optimal distance to the sensitive receptor, as determined by an acoustical expert.
2. Construction of a temporary berm shall be placed at the optimal distance to the sensitive receptor, as determined by an acoustical expert.
3. Modification of equipment to reduce noise impacts.
4. Implementation of a quiet mode drilling plan or other sound reduction technology or practices as documented in a report submitted to the County.
5. Arranging for the voluntary, temporary relocation of the occupants of the sensitive receptor during the construction period.
6. Use the following setback distances for the activities specified:

Construction Noise Setbacks

Activity	Setback Distance (feet)
~~Well Pad Preparation~~	~~800~~
Drilling (Well Advancement)	~~1,420~~1,550
Drilling (Pull Out Of Well/Borehole)	~~750~~820
Large-Scale Exploratory Drilling[1]	~~3,000~~270
Well Workover	~~850~~930
Hydraulic Fracturing	1,090

~~Source: Brown Buntin 2015~~
Note:
[1]Kenai Drill Rig #7

Information submitted with the Site Plan Application must detail the combination and methods used to determine the level of reduction and shall not exceed 65 ~~dBA~~ dB DNL or any ambient levels in excess of 65 ~~dBA~~ dB DNL or more than 1 ~~dBA~~ dB DNL higher than the ambient noise levels, if in excess of 65 ~~dBA~~dB DNL.

Page 4.12-23, Section 4.12.4 of the DEIR, is revised as follows, as described in section 7.1.4 and in Global Response Air-10, and responses to comments 0044-216, 0046-016, and 0050-004, in section 7.2:

MM 4.12-2 Operation:

New oil and gas wells shall be a minimum ~~190~~ 210 feet from the closest sensitive receptor. Geophysical testing methods using vibroseis vehicles to generate sound waves shall be a minimum 150 feet from the closest occupied building, water well, sewer system, and septic tank. Geophysical testing methods using shotholes that employ explosives shall be a minimum 300 feet from the closest occupied building, water well, sewer system, and septic tank, and shall be in full compliance with all laws governing explosives.

Page 4.6-12 of the DEIR, Section 4.16.3, *is revised as follows, as described in response to comment 0014-004 of section 7.2:*

Kern County Public Works Department~~Engineering, Surveying, and Permit Services Department~~

The Kern County Public Works Department~~Engineering, Surveying, and Permit Services Department~~ enforce Kern County development standards for streets and other infrastructure. The standards are applicable to all developments within Kern County that are outside of incorporated cities. Division 9 of the County's development standards specifies requirements for traffic studies. Division 1, Section 105-4, of the standards requires that all construction to connect driveway

approaches to County roads must first be authorized by an Encroachment Permit. The Kern County Public Works Department's~~Engineering, Surveying, and Permit Services Department's~~ Transportation and Encroachments Permits Division issues Transportation Permits for vehicles on County roadways that carry oversized loads, as specified in the California Vehicle Code.

Page 4.17-12 of the DEIR, Section 4.17.2*, beginning at the second full paragraph on the page, is revised as follows, as described in Global Response Water-5 in Section 7.2:*

As discussed in Section 4.9, Hydrology and Water Quality, oil and gas exploration and production activities in the Project Area also generate "produced water" (i.e., residual water from the separation of oil and gas after extraction). About 234,959 AF of produced water was generated during 2012 in the Project Area. The oil and gas industry reused 38% (88,812 AF) of this amount for enhanced oil recovery (EOR) injection or other oilfield activities, and ~~14~~16% (38,658~~32,771~~ AF) was supplied to the Cawelo WD and other users for agricultural irrigation. About 84,571 AF (36%) of the produced water was disposed into injection wells, and 30,931~~30,223~~ AF (13%) was disposed in surface ponds.

For analysis purposes, the supply of produced water in the Project Area available for treatment and reuse in the future is assumed to be sufficient to meet the anticipated demand for reuse, including oilfield operations and agricultural irrigation. This is a reasonable assumption, given that approximately half of produced water is currently disposed of rather than reused. As shown in Table 19 and Table 39 of Appendix T-1, the Project Applicant has estimated that, in 2015, about 93,106 AF of produced water will be reused for EOR and other oil and gas purposes. By 2035, oil and gas activities will utilize about 121,412 AF of produced water. The projections further assume that produced water use for agriculture will be 38,658~~32,771~~ AFY under existing and future conditions. As a result, the total Project Area produced water supply, excluding produced water disposal by injection or to surface ponds, is projected to increase from about ~~125,877~~131,764 AFY in 2015 to 1~~54,183~~160,070 AFY in 2035.

Page 4.17-3 of the DEIR, Section 4.17.2, *Table 4.17-10, is revised as follows, as described in Global Response Water-5 of Section 7.2:*

Table 4.17-10: Estimated Annual Project Area Groundwater Extraction, 1980-2011

Year	Extractions (AF)	Year	Extractions (AF)
1980	977,000	1996	1,609,600
1981	1,161,000	1997	1,091,400
1982	802,200	1998	1,290,200
1983	762,700	1999	1,471,500
1984	1,252,200	2000	1,360,100
1985	1,293,800	2001	1,953,900
1986	947,600	2002	1,575,000
1987	1,208,700	2003	1,203,900

Table 4.17-10: Estimated Annual Project Area Groundwater Extraction, 1980-2011

Year	Extractions (AF)	Year	Extractions (AF)
1988	1,540,000	2004	1,842,300
1989	1,588,500	2005	579,900
1990	1,796,000	2006	716,500
1991	2,002,400	2007	2,212,300
1992	1,673,600	2008	2,306,500
1993	987,700	2009	1,212,400
1994	1,897,700	2010	230,400
1995	1,242,800	2011	419,000
		Mean [(a)]	**1,319,000**

Sources: Appendix T, Table 16
Note:
(a) Mean of the historical records is rounded off to the nearest hundred. The historical mean extraction value does not represent the safe or sustainable yield for the Project Area. See Appendix T-1, Section 4.3.4.1.

Page 4.17-14 of the DEIR, Section 4.17.2, *is revised as follows, as described in Global Response Water-5 of section 7.2:*

Table 4.17-11: Project Area Average, Dry and Multiple Dry Year Groundwater Supplies by Subarea

	Project Area (AF)	Western Subarea (AF)	Central Subarea (AF)	Eastern Subarea (AF)
Average Water Year (based on average extractions 1980-2011)	1,319,000	659,500	237,400	422,100
Single-Dry Water Year (based on average of dry and critical years of extractions 1980-2011)	1,673,000	836,500	301,100	535,400
Multiple Dry Year (based on average extractions 1987-1992)	1,635,000	817,450	294,300	523,200

Source: Appendix T, Table 17
The historical mean extraction value and estimates for normal, dry and multiple dry periods do not represent the safe or sustainable yield for the Project Area. See Appendix T-1, Section 4.3.4.1.

Page 4.17-15 of the DEIR, Section 4.17.2*, Table 4.17-12, is revised as follows, as described in Global Response Water-5 of section 7.2:*

Table 4.17-12: Summary of Project Area Average, Single Dry, and Multiple Dry Year Water Supplies, 2015 and 2035 (AF)

	Average (AF)	Single-Dry Year (AF)	Multiple Dry Year (AF)
2015			
SWP Imported Water	565,900	105,500	293,700

Table 4.17-12: Summary of Project Area Average, Single Dry, and Multiple Dry Year Water Supplies, 2015 and 2035 (AF)

	Average (AF)	Single-Dry Year (AF)	Multiple Dry Year (AF)
CVP Imported Water	305,600	77,200	228,400
Groundwater	1,319,000	1,673,000	1,635,000
Kern River	764,400	197,000	335,500
Recycled Water	77,000	77,000	77,000
Oilfield-Produced Water [(a)]	131,764 ~~125,981~~	131,764 ~~125,981~~	131,764 ~~125,981~~
TOTAL	**3,163,664** **~~3,157,881~~**	**2,261,464** **~~2,255,681~~**	**2,701,364** **~~2,695,581~~**
2035			
SWP Imported Water	565,900	105,500	293,700
CVP Imported Water	305,600	77,200	228,400
Groundwater	1,319,000	1,673,000	1,635,000
Kern River	764,400	197,000	335,500
Recycled Water	77,000	77,000	77,000
Oilfield-Produced Water	160,070 ~~155,004~~	160,070 ~~155,004~~	160,070 ~~155,004~~
TOTAL	**3,191,970** **~~3,186,904~~**	**2,289,770** **~~2,284,704~~**	**2,729,670** **~~2,724,604~~**

Source: Appendix T, Table 20

Note:

(a) "Oilfield produced water supply" includes ~~32,771~~ 38,658 AFY provided for agricultural reuse in the Eastern Subarea. As noted in Appendix T-1, for ease of reference, this level of agricultural use was not included in Appendix T-1, Table 20 due to the different methodology used in Table 20 and was incorporated in Tables 39 and 41 through 43 of Appendix T-1. Consequently, Table 4.17-12 shows a higher amount of oilfield-produced water than Appendix T-1, Table 20. In addition, the total supply shown in Tables 39 and 41 through 43 of Appendix T-1 and Tables 4.17-28 to 4.17-30 provide a lower, more conservative estimate of normal, dry and multiply dry year supplies available in the Project Area than shown in Appendix T-1, Table 20 and Table 4.17-12. ~~to the Cawelo Water District and produced water supply amounts are slightly higher (104 AF higher for 2015 and 810 AF higher for 2035) than projected produced water demand in Tables 19 and 39 of the WSA due to the use of a different supply estimation methodology~~.

Page 4.17-20 of the DEIR, Section 4.17.2, *final paragraph on the page, is revised as follows, as described in Global Response Water-5 of section 7.2:*

As discussed in Section 4.9, Hydrology and Water Quality, about 38,658~~32,771~~ AFY of relatively high quality produced water from oilfields located along the base of Sierra Nevadas in the Eastern Subarea is provided to CWD and other users for agricultural reuse. Produced water reuse for irrigation requires additional filtration and treatment to meet applicable water quality standards, including waste discharge requirements (WDRs) issued by the Central Valley Regional Water Quality Board (CVRWQCB). The Applicant has projected that 38,658~~32,771~~ AF of produced water will continue to be supplied to CWD in the Eastern Subarea through 2035. As discussed below,

additional produced water reuse has been proposed or considered, but none has been approved or implemented in other Project Area locations.

Page 4.17-23 of the DEIR, Section 4.17.2, *Table 4.17-22, is revised as follows, as described in Global Response Water-5 of Section 7.2:*

Table 4.17-22: Summary of Project Area Average, Single Dry and Multiple Dry Year Water Demand, 2015 and 2035 (AF)

	Average Year	Single Dry Year	Multiple Dry Year
2015			
Urban Demand (M&I)	237,029	234,938	239,854
Agricultural Demand (Excluding Produced Water)	~~2,635,916~~ 2,630,029	~~2,635,916~~2,630,029	~~2,635,916~~2,630,029
Agricultural Demand (Produced Water Reuse)	~~32,771~~38,658	~~32,771~~ 38,658	~~32,771~~ 38,658
Oil and Gas M&I Demand	9,660	9,660	9,660
Oil and Gas Produced Water Demand	93,106	93,106	93,106
TOTAL	**3,008,482**	**3,006,391**	**3,011,307**
2035			
Urban Demand (M&I)	301,736	299,971	305,886
Agricultural Demand (Excluding Produced Water)	~~2,635,916~~2,630,029	~~2,635,916~~ 2,630,029	~~2,635,916~~ 2,630,029
Agricultural Demand (Produced Water Reuse)	~~32,771~~ 38,658	~~32,771~~ 38,658	~~32,771~~ 38,658
Oil and Gas M&I Demand	11,761	11,761	11,761
Oil and Gas Produced Water Demand	121,412	121,412	121,412
TOTAL	**3,103,596**	**3,101,831**	**3,107,746**

Source: Appendix T, Table 39

Pages 4.17-26 through 4.17-27 of the DEIR, Section 4.17.2, *is revised as follows, as described in response to comment 0014-004 of section 7.2:*

Stormwater Drainage

The Kern County Public Works Department ~~Kern County Engineering and Survey Services Department~~ manages storm drain systems in Kern County. Development sites are required to provide for their own onsite retention or show that existing facilities have sufficient capacity to carry the additional runoff. These onsite retention basins are usually maintained by a County service area if they are for a residential project or privately maintained by the developer through a special district or other entity if they are for a commercial development. The County declines to

assume liability for commercial or industrial drainage sumps, due to the issues of increased nonpoint-source contamination, particularly from industrial uses.

Page 4.17-49 of the DEIR, Section 4.17.4, *Table 4.17-26 and immediately following paragraphs, are revised as follows, as described in Global Response Water-5 of Section 7.2:*

Table 4.17-26: Produced Water and Oil and Gas M&I Water Demand 2012, 2015 and 2035 (AF)

	2012	2015	2035	Net Increase 2012-2035	Percent Increase
Produced Water (oil and gas uses)	88,812	93,106	121,412	32,600	37%
Produced Water (agricultural reuse)	38,65832,771	38,65832,771	38,65832,771	--	0%
Subtotal: Produced Water Demand	127,4701 21,583	131,76412 5,877	160,07015 4,183	32,600	27%
Projected M&I Water Demand	8,778	9,660	11,760	2,982	34%

Source: Appendix T, Table 19, Table 30, and Table 39

As discussed in Section 4.9, Hydrology and Water Quality, oil and gas exploration and production activities currently generate sufficient produced water to meet existing and future demands. About 234,959 AF of produced water was generated in 2012, and about 321,894 AF would be generated in 2035 if produced water volume increases at the same rate as projected oil and gas industry demand (37% increase during 2012-2035). About 49% of produced water was disposed by injection or to surface ponds in 2012. As shown in Section 4.9, the percentage of surplus produced water subject to disposal in 2035 could range from 4847% to 5250%, depending on the potential reuse of these supplies for other purposes (see Table 4.9-27).

The amount of produced water generated in the Project Area in 2012 would exceed anticipated demand in 2035 for oil and gas and agricultural reuse (160,070 AF) by more thanabout 8075,000 AF. As shown in Section 4.9, the volume of produced water, and the ratio of produced water to recovered hydrocarbons, has increased in the Project Area over time. As Project Area oilfields mature, it is likely that the volume of produced water, and the ratio of produced water to recovered hydrocarbons, would be comparable to or greater than in 2012. Consequently, Project Area produced water supplies can be expected to continue to exceed demand by a significant margin under future conditions, and produced water resources are sufficient to meet current and projected future produced water demand in the Project Area.

Pages 4.17-54 through 4.17-55 of the DEIR, Section 4.17.4, *Table 4.17-31, are revised as follows, as described in Global Response Water-5 of Section 7.2:*

Table 4.17-31: Total Project Area and Oil and Gas M&I and Agricultural Water Demand (Excluding Produced Water Supplies and Demand) Average, Single Dry, and Multiple Dry Years, 2015 and 2035 (AF)

	Average Year	Single Dry Year	Multiple Dry Year
2015			
Project Area Demand	~~2,872,945~~2,867,058	~~2,870,854~~ 2,864,967	~~2,875,770~~ 2,869,883
Oil and Gas M&I Demand	9,660	9,660	9,660
Oil and gas share of total urban and agricultural demand	0.34%	0.34%	0.34%
2035			
Project Area Demand	~~2,937,652~~2,931,765	~~2,935,887~~ 2,930,000	~~2,941,802~~ 2,935,915
Oil and Gas M&I Demand	11,761	11,761	11,761
Oil and gas share of total urban and agricultural demand	0.40%	0.40%	0.40%

Sources: See Tables 4.17-20 and 4.17-27 to 4.17-29

Page 4.17-56 of the DEIR, Section 4.17.4, *beginning at the first full paragraph on the page, is revised as follows, as described in Global Response Water-5 in section 7.2:*

As discussed above, for conservative analysis purposes, all oil and gas M&I water demand is assumed to be supplied from Project Area M&I-quality groundwater aquifers. As discussed in Appendix T, prior levels of Project Area groundwater extraction by all users are assumed to be maintained in future years, although the implementation of a GSP for the Project Area could change the volume of groundwater that can be used to meet new state sustainability requirements. As shown in Table 4.17-34, under these assumptions, oil and gas M&I water demand in 2015 would account for about 0.58% to 0.~~73~~74% of total Project Area groundwater extraction, depending on hydrologic conditions. In 2035, oil and gas M&I water demand would account for about 0.~~70~~71% to 0.~~89~~90% of total Project Area groundwater use. As shown in Table 4.17-20, the projected oil and gas M&I demand with a 10% contingency would be 10,626 AFY in 2015 and 12,936 AFY in 2035. Based on oil and gas M&I demand estimates with a 10% contingency, and assuming that all such demand was met by using groundwater, oil and gas M&I demand would amount to 0.~~61~~64% to 0.81% of Project Area groundwater use in 2015, and 0.~~77~~78% to 0.~~98~~99% of Project Area groundwater use in 2035, depending on hydrologic conditions.

Table 4.17-34: Project Area Total Groundwater Extraction and Oil and Gas M&I Water Demand in Average, Single Dry, and Multiple Dry Years, 2015 and 2035

	Average Year	Single Dry Year	Multiple Dry Year
2015			
Project Area Groundwater Extraction (Excluding Irrigation Water Supplied from Treated Produced Water)	1,313,113~~1,319,000~~	1,667,113~~1,673,000~~	1,629,113~~1,635,000~~
Oil and Gas M&I Demand	9,660	9,660	9,660
Oil and Gas Share of Groundwater Use	0.~~73~~74%	0.58%	0.59%
2035			
Project Area Groundwater Extraction	1,313,113~~1,319,000~~	1,667,113~~1,673,000~~	1,629,113~~1,635,000~~
Oil and Gas M&I Demand	11,761	11,761	11,761
Oil and Gas Share of Groundwater Use	0.~~89~~90%	0.~~70~~71%	0.72%

Source: Appendix T-1, Tables 16 and 17 and Table 4.17-11. Mean Project Area groundwater use adjusted to reflect additional produced water reuse for agriculture discussed in GR Water-05 and in Appendix T-1.

Pages 4.17-57 of the DEIR, Section 4.17.4, *second paragraph on page, is revised as follows, as described in Global Response Water-5 of section 7.2:*

Impacts related to oil and gas exploration and production demand for M&I water could be reduced or avoided by the increased reuse of produced water otherwise subject to disposal. As discussed in Section 4.9, Hydrology and Water Quality, the additional reuse of about 7% of the total produced water that is projected to be disposed by injection or into surface ponds (e.g., 11,761 AF of a projected disposal volume of about ~~163,711~~161,824 AF in 2035; see Section 4.9, Table 4.9-27) would completely offset oil and gas M&I water demand by 2035. As discussed in Appendix T, there is no surplus water available in the Project Area to meet demand, particularly for higher-quality M&I water, and any such use reduces potential supplies for other purposes.

Pages 4.17-57 of the DEIR, Section 4.17.4, *third paragraph on page, is revised as follows, as described in response to comment 0003-056 of section 7.2:*

Produced water is generated from hydrocarbon-bearing formations that are not currently used and are unlikely to be used for M&I purposes due to typically high levels of TDS, hydrocarbon-related constituents, boron, chloride, and other potential constituents of concern. As discussed above, produced water has been treated, blended with other water supplies, and successfully reused for agricultural irrigation in the Eastern Subarea. Agricultural irrigation generally uses surface and groundwater supplies that have substantially higher water quality than produced water and that can be more easily and cost-effectively treated for M&I use. Additional produced water treatment and reuse for agriculture, or additional produced water use in lieu of M&I supplies by oil and gas operators, primarily located in the Eastern Subarea, would effectively increase the supply of higher quality surface and groundwater in the supply-limited Project Area.

Page 4.17-58 of the DEIR, Section 4.17.4, *first full paragraph on page, is revised as follows, as described in response to comment 0003-057 of section 7.2:*

> Additional produced water reuse in the Project Area could occur from agreements between individual oilfield operators and potential water users. The Kern-Tulare Water District has proposed to use 8,000 AFY of treated produced water in the Western Subarea. A CEQA notice of preparation for an EIR that will address potential environmental impacts related to the proposed produced water use was published in 2015 (SCH Number: 2015021024). The EIR will be prepared by the district. In 1998, the CVRWQCB prepared WDRs R5-1998-205 (WDRs), including a Monitoring and Reporting Program (MRP) for an operator in the Jasmine Field. The WDRs/MRP provides regulatory oversight for the operator to re-use good quality produced water, not exceeding Basin Plan limitations. The produced water is re-used for local agriculture applications by blending with other surface and/or groundwater for distribution by the Jasmin Ranchos Mutual Water District. Additional use of treated produced water has been considered, but has not yet been formally proposed, in other Project Area locations. The extent to which additional produced water reuse may occur from agreements between individual oilfield operators and potential water users in the Project Area is uncertain. To date, no such agreements, other than with the CWD, have been approved and implemented in the Project Area.

Page 4.17-59 of the DEIR, Section 4.17.4*, is revised as follows, as described in section 7.1.4*:

> **MM 4.17-2** Applicant shall increase the re-use of produced water, and reduce its use of municipal and industrial-quality ground or surface water use to the extent feasible. By the end of 2016, the Applicants shall work with the County to review water use data submitted to Division of Oil Gas and Geothermal Resources under Senate Bill 1281 and identify the five biggest oil industry users of municipal and industrial water by volume. The five biggest oil industry users of municipal and industrial water shall work together to develop and implement a plan identifying new measures to reduce municipal and industrial water use by 2020. The plan shall address the following activities, as appropriate: steam generation; drilling and completions (including hydraulic fracturing); dust control; compaction activities related to construction; and landscaping. Through the KernFLOWS initiative or other efforts (e.g., Groundwater Sustainability Agency), the five biggest oil industry users of municipal-and-industrial water shall also work with local agricultural producers and water districts to identify new opportunities to increase the use of produced water for agricultural irrigation and other activities, as appropriate. Any produced water treated and used for agricultural irrigation or other activities shall be tested and monitored to assure compliance with applicable standards for such agricultural irrigation or other uses.

Page 4.17-60 of the DEIR, Section 4.17.4*, is revised as follows, as described in section 7.1.4 (note that this measure has been further revised as shown in section 12.1.3 above and 12.4.2 below)*:

MM 4.17-4 The Applicant shall work with the County on the Groundwater Sustainability Plan to increase Applicant use of reclaimed water and reduce the Applicant's use of municipal-and-industrial quality imported surface water or groundwater. The Applicant will provide copies of water use reports produced under AB 1281 to the Groundwater Management Agency, which will then integrate this information into the Groundwater Sustainability Plan required under the Sustainable Groundwater Management Act.

***Page 10-45 of the DEIR** is revised as follows, as described in response to comment 0009-004 in section 7.2:*

Kern County Water ~~Authority~~ Agency (KCWA). 2011. Tulare Lake Basin Portion of Kern County Integrated Regional Water Management Plan Final Update. November 2011. Online at: http://kernirwmp.com/documents/2011/KCWA_FinalUpdate_IRWMP_112911.pdf. Accessed June 10, 2015.

Kern County Water ~~Authority~~ Agency (KCWA). 2014. State Water Project Allocation Raised from 0 to 5 percent. Press Release. April 18 2014. Online at: http://www.kcwa.com/Documents/Press%20Releases/2014/SWP%20Allocation%20to%205%20Percent.pdf. Accessed June 9, 2015.

Kern County Water ~~Authority~~ Agency (KCWA). 2015. New Approach for Restoring the Delta. March 2, 2015. Online at: http://www.kcwa.com/Documents/Press%20Releases/pressrelease.pdf. Accessed June 9, 2015.

***Page 11-39 of the DEIR** is revised as follows, to add a new definition following "slurry," as described in response to comment 0014-003 in section 7.2:*

Special Flood Hazard Area	An area having special flood or flood-related erosion hazards, and shown on an FHBM or FIRM as Zone A, AO, A1-30, AE, A99, AH, or identified by the floodplain administrator. See Kern County Code of Ordinances § 17.48.060(67).

12.3 Responses to Written Comments Received after the DEIR Comment Period

12.3.1 Introduction

This *Section 12.3, Responses to Written Comments Received after the DEIR Comment Period*, consolidates all written comment received by the County between September 11, 2015 and October 21, 2015, as well as the County's responses thereto. As with the County's responses to comments compiled in *Chapter 7* of this EIR, all responses to written comments included in this Section 12.3 are further supplemented by the Global Responses complied in *Chapter 7, Section 7.2.1*.

A Audubon California

Audubon CALIFORNIA

September 25, 2015

Kern County Planning and Community Development Department
Attention: Christopher B. Mynk, AICP
2700 "M" Street, Suite 100
Bakersfield, CA 93301
via email: mynkC@co.kern.ca.us

Re: Revisions to the Kern County Zoning Ordinance – 2015 C. focus on Oil and Gas Local Permitting

Dear Kern County Planning and Community Development Department:

On behalf of Audubon California, a state program of National Audubon, and our 50,000 members and supporters, we submit the following comments on the Draft Environmental Impact Report for the revisions to the Kern County Zoning Ordinance – 2015 focus on Oil and Gas Local Permitting.

Generally we comment:

1. The predicted potential impacts in the Plan Area for species of birds are significant however the mitigation is inadequate to reduce those impacts to less than significant. The mitigation measures proposed for these species –MM 4.41-4.4.18 fail to reduce the impacts to less than significant.

Specifically, we comment on some of the mitigation measures:

Conservation

> *MM 4.4-16 a. The recordation of a conservation easement or similar permanent, long-term conservation management agreement in a form acceptable to the County for land within the Project Area on land that has mitigation value. The easement lands may be owned by an Applicant or a third party under contract with an Applicant. Larger land areas may be placed under a conservation easement or similar agreement,*

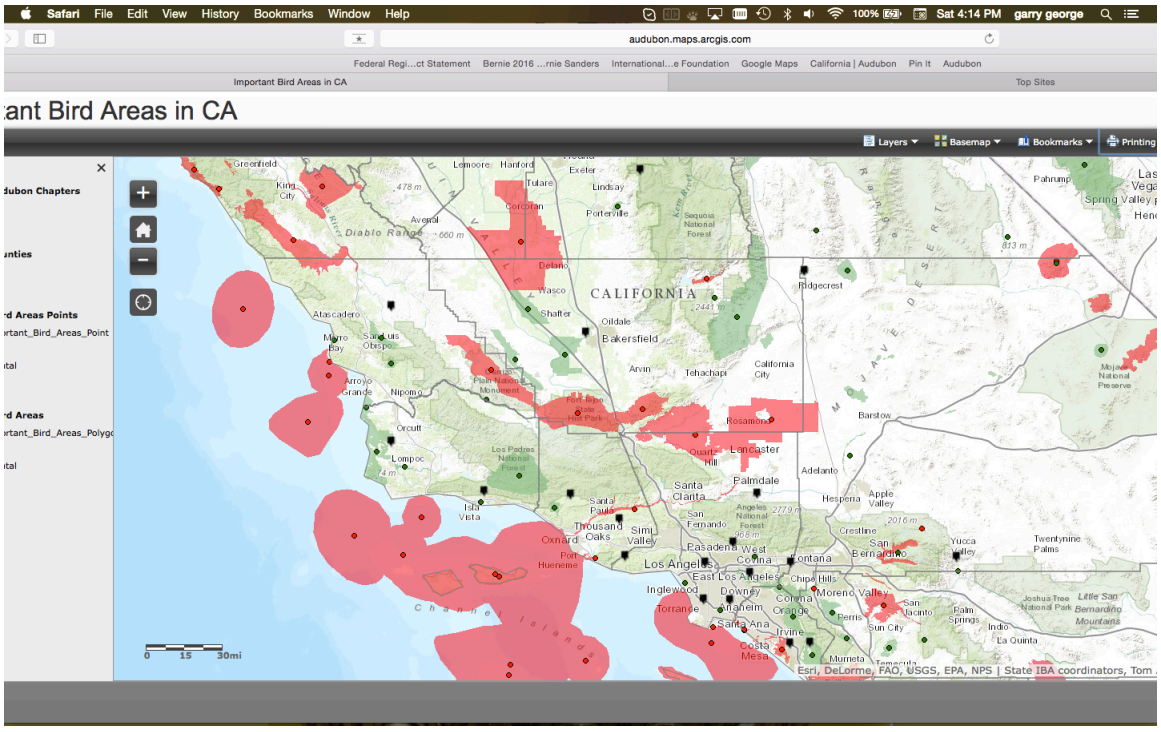
and an Applicant may "draw down" the conserved land as needed to satisfy the acreage mitigation requirements for multiple site plan review conformity permits or other authorizations from the County for oil and gas activities.
b. Acquisition of land preservation credits from a mitigation bank located within the Project Area which is owned by the County, on other lands approved by the County, or on lands approved for mitigation or conservation purposes by the United States Fish and Wildlife Service or the California Department of Fish and Wildlife (DEIR, p. 4.4-15)

2. Comment: This mitigation measure is inadequate. The revisions to the Kern County Zoning Ordinance – 2015 focus on Oil and Gas Local Permitting are an opportunity to leave a lasting conservation legacy for the citizens of Kern County and the State of California, both within Kern County and outside of Kern County.

The mitigation measure does not provide exact acreage required for each species, nor does it provide for conservation or mitigation if there is not enough qualified lands in the project area, nor does it set standards or criteria for the mitigation. We recommend that Kern County adopt an Rapid Advance Mitigation Program for this project that identifies lands of conservation value for the species of birds impacted by the project prioritizing connectivity to and conservation of other lands of conservation value, corridors, and climate refuges not only in Kern County but in the surrounding areas of high conservation value. The region including Kern County is a unique meeting of five distinct ecosystems and biodiversity, and the goal of all mitigation should be directed to maintain or enhance this biodiversity on undisturbed lands whenever possible, not only for conservation of biodiversity and mitigation for species impacted but also for the enjoyment of the citizens of Kern County and other nearby counties. The DEIR has not demonstrated that there are adequate lands in the Project Area to meet the mitigation and conservation needs of the species impacted by the project.

We note that the Plan Area impacts five Audubon Important Bird Areas:

Goose Lake Important Bird Area
Buena Vista Lake Bed Important Bird Area
Taft Hills Important Bird Area
San Emigdio Mountains Important Bird Area (globally significant)



http://audubon.maps.arcgis.com/apps/OnePane/basicviewer/index.html?appid=30bb04b44cdb44a99589d642152c8eb0

The Important Bird Areas Program, administered by the National Audubon Society in the United States, is part of an international effort to designate and support conservation efforts at sites that provide significant breeding, wintering, or migratory habitats for specific species or concentrations of birds. Sites are designated based on specific and standardized criteria and supporting data.

Important Bird Areas should be entered into the Databasin gateway for Kern County and Important Bird Areas in Kern County should be considered for mitigation for impacts from the project. GIS data can be downloaded from http://ca.audubon.org/california-important-bird-areas-gis-data-and-methods

Additionally, permitting in the Plan Area affects Audubon species of concern and we note in the analysis the large amounts of acreages of disturbances of lands valuable for each of these species:

Burrowing owl
LeConte's thrasher
Grasshopper sparrow
Lesser Sandhill crane

Tricolored Blackbird
Least Bell's Vireo
Northern Harrier
Mountain Plover
Yellow-headed Blackbird
Golden Eagle
Swainson's Hawk

Specifically, we comment on some of these species and the mitigation measures proposed.

3. Golden Eagle, Swainson's Hawk.

> *MM 4.4-8 Pre-disturbance surveys for all sites located above 2,000 feet in elevation, or within 200 feet down gradient from the 2,000-foot elevation contour line, shall specifically survey for any golden eagle nests located within 2 miles of the site. If golden eagle nests are detected by the surveys, the qualified biologist shall conduct a nest-specific viewshed analysis. No disturbance may occur within 0.25 mile, or within 0.5 mile of the viewshed of an active golden eagle nest. The United States Fish and Wildlife Service and California Department of Fish and Wildlife must be notified prior to the commencement of any disturbance activities within 1 mile of an active golden eagle nest to avoid golden eagle take.*

This measure fails to follow US Fish & Wildlife guidelines for protocols for Golden Eagle surveys and mitigation in Pagel, J.E., D.M. Whittington, and G.T. Allen. 2010. Interim Golden Eagle technical guidance: inventory and monitoring protocols; and other recommendations in support of eagle management and permit issuance. Division of Migratory Bird Management, U.S. Fish and Wildlife Service (attached herewith), especially regarding survey area and buffers for nest disturbance.

Additionally, sites below 2,000 feet can be foraging habitat for Golden eagle that nest in higher altitudes. Removal of foraging habitat if it affects breeding success can be considered "take" under the Bald and Golden Eagle Protection Act. The DEIR fails to consider these sites in analyzing impacts to Golden eagle.

3. Summary of potential impacts to modeled Special Status Wildlife is inadequate.

The models do not identify high quality habitat for the golden eagle or Swainson's hawk within the lower elevation portions of the Project Area.

From the DEIR:

> *The TUMSHCP EIS and the Biological Opinion for the TUMSHCP issued by the USFWS in 2013 show that, in contrast with the lower elevation portions of the Project Area, locations above 2,000 feet are known to support active golden eagle territories, nests, and high quality breeding and foraging habitat. Based on data from Tejon Ranch surveys conducted for the TUMSHCP, the USFWS concluded that, due to abundant prey, breeding pairs of golden eagles in higher elevations along the southern border of the Project Area likely maintain smaller than average territories (i.e., about 5,000 to 8,000 acres), which could result in greater than typical species densities in these locations (USFWS 2013d). To provide a conservative assessment, this DEIR assumes that all Project Area land located above 2,000 feet in elevation is high quality golden eagle habitat, and that disturbance in these areas could result in significant impacts to the species without mitigation.*

The Swainson's hawk was not included in the TUMSHCP. (DEIR 4.4 Biological Resources, p. 4.4-200)

Comment: This ignores the fact the both Swainson's hawk and Golden eagle forage in lower altitudes on the Valley floor. (citations) and removal of foraging habitat near nests can be considered "take" and must be mitigated.

> *MM 4.4-10 Pre-disturbance surveys for active bird nests must be conducted no more than 10 days prior to the commencement of disturbance. Surveys shall follow United States Fish and Wildlife and California Department of Fish and Wildlife guidance and/or protocols, as applicable. If no active nests or nesting birds are identified, then Project construction activities may proceed and no further mitigation measures for nesting birds are required. If active nest(s) are identified, the active nest(s) should be continuously surveyed for the first 24 hours after detection, to establish a behavioral baseline prior to any construction-related activities. Once construction commences, all nests shall be continuously monitored to detect any behavioral changes as a result of the Project (i.e., nest avoidance or abandonment). If behavioral changes are observed, the work causing that change should cease and the California Department of Fish and Wildlife and the United States Fish and Wildlife should be consulted for additional avoidance and minimization measures. If continuous monitoring of identified nests by a qualified wildlife biologist is not feasible, a minimum no disturbance buffer of 250 feet will be established around active nests and a 500- foot*

no-disturbance buffer around the nests of raptors until the breeding season has ended, or until a qualified biologist has determined that the birds have fledged and are no longer reliant upon the nest or parental care for survival, and any adult birds are no longer occupying the nest. Variance from these no disturbance buffers may be implemented a qualified biologist concludes that work within the buffer area would not cause nest avoidance or abandonment (e.g., when the disturbance area would be concealed from a nest site by topography). The California Department of Fish and Wildlife and the United States Fish and Wildlife must be notified in advance of implementing of a variance in the no-disturbance buffer. (DEIR, p. 4.4-208)

Comments: These buffers are not adequate to avoid disturbance of Golden eagle nests. USFWS guidelines report disturbance of nests within 1300 feet (around 1/4 mile). Steidl et al. (1993) found when observers were camped 400 meters from nests of Golden Eagles, adults spent less time near their nests, fed their juveniles less frequently, and fed themselves and their juveniles up to 67% less food than when observers were camped 800 meters from nests. In studies of Golden Eagle populations in the southwest (New Mexico and Texas) and the Front Range of the Rocky Mountains (New Mexico, Colorado and Wyoming), Boeker and Ray (1971) reported that human disturbance accounted for at least 85% of all known nest losses." (Pagel et al, Interim Golden Eagle Technical Guidance: Inventory and Monitoring Protocols; and other Recommendations in Support of Golden Eagle Management and Permit Issuance, US Fish & Wildlife Service, February 2010) and attached herewith.

Thank you for the opportunity to comment.

Sincerely,



Garry George
Renewable Energy Director
AUDUBON CALIFORNIA
4700 Griffin Ave
Los Angeles, CA 90031
323-933-6660 p
ggeorge@audubon.org

The following responses to this letter appeared in the addendum to the staff report prepared for the October 5 hearing of the Kern County Board of Supervisors:

> The Audubon Society submitted a comment letter on September 25, 2015 (the same day the Final EIR was published). The commenter raised concerns about several of the mitigation measures, analytical methods, and conclusions in the Biological Resources section of the Draft EIR.
>
> Other comments on the Biological Resources section of the Draft EIR were also received, and the Final EIR includes in Chapter 7 – Response to Comments Volume III global responses, and responses to individual comments, as well as modifications to the Biological Resource mitigation measure. The commenter numbered each of the comments; responses to each are provided below:
>
> **Comment 1** – This comment was addressed in the Final EIR, Global Response Bio-1, regarding the adequacy of mitigation measures to reduce impacts to species to less than significant.
>
> **Comment 2** – This comment was generally addressed in the Final EIR, Global Response Bio-1, regarding the acreage specificity required for each species. While it is not known how many acres of land ultimately will be protected under Mitigation Measure 4.4.-16, given the distribution of approved and planned habitat conservation plans and other regional conservation efforts throughout Kern County, it is highly likely that species specific mitigation would be available and considered by either the USFWS and/or CDFW depending on the nature and location of disturbance. In any event, the mitigation of special-status species would not be below a 1.0 to 1.0 ratio in the higher quality habitat areas of the County as required by Mitigation Measure 4.4-16 and as explained in the Draft and Final EIR.
>
> The mitigation lands that will be provided under MM 4.4-16 will include the dedication of regionally important wildlife habitats identified in large scale, regional conservation plans, such as the Lokern HCP or Elk Hills HCP, or acquisition of credits from agency-approved mitigation banks or other similar entity that are protecting habitat of regional importance for special-status species. The regional HCPs and mitigation banks include lands that have been identified in recovery goals established for special-status species (i.e., recovery goals established in the SJV Recovery Plan) and seek to protect land in large blocks to minimize edge effects, increase the likelihood that ecosystem functions will remain intact, and facilitate management. Such planning also seeks to connect blocks of conservation lands, allowing greater movement of wildlife between blocks. For example, future conservation lands identified in the Lokern HCP and the Elk Hills HCP would expand existing contiguous areas of intact habitat along the western side of the southern San Joaquin Valley that will further enhance the value of existing conservation lands by providing habitat connectivity and wildlife movement corridors. This issue is also discussed further in the Final EIR, Global Response Bio-2.

Comment 3 – While the referenced MM 4.4-8 does not specifically state the applicable USFWS guidelines for protocols regarding Golden Eagle surveys will apply, MM 4-4-8 does address this concern by requiring project applicants to follow all applicable protocols of the USFWS and/or CDFW (which include but are not limited to golden eagle protocols).

The Draft EIR indicates that a total 3,649 new wells would be drilled over the next 25 years for a total of 91,225 new wells (see Table 3-5 of the Draft EIR). As stated on page 3-39 of the Draft EIR, the disturbance acreage for each new well ranges from 1.2 to 3.0 acres, resulting in a total maximum disturbance of 273,675 acres. The County acknowledges that low quality nesting habitat for the golden eagle is found throughout the Kern County Valley Floor and is shown in Table 4.4-85 at over 1.9 million acres. The likelihood of all 273,675 acres directly affecting golden eagle foraging habitat is considered low due to the existing and predicted new wells primarily occurring in already disturbed areas. A large portion of the Kern County Valley Floor is now used for intensive agriculture or urban uses, which does not typically provide foraging opportunities for golden eagles. A suitable proxy for golden eagle foraging habitat within the Project Area would be represented by suitable habitat for American badger. Both species utilize dry natural lands, such as grassland and scrubland, for foraging and are not associated with agricultural or urban lands. As shown in Table 4.4-79, impacts to American badger habitat would be at most 1,167 acres per year, or 29,175 acres over 25 years. Only a small portion of that suitable foraging habitat is within proximity to nesting areas in the foothills above 2,000 feet in elevation, as a result, the majority of potentially suitable foraging habitat in the Project Area is not expected to be utilized by nesting pairs of golden eagles.

Comment 4 – While the models do not identify high quality habitat for the golden eagle or Swainson's hawk within the lower elevation portions of the Project Area, this is because no such high quality nesting habitat exists below 2,000 feet for the golden eagle or Swainson's hawk. As stated on page 4.4-93 of the Draft EIR, the "URS SBM modeling data was available for this species (golden eagle) and indicates that low quality nesting habitat occurs within the portions of the Project Area located below 2,000 feet." As further stated on page 4.4-102 of the Draft EIR, "The results indicate that high quality suitable nesting habitat does not occur within the portions of the Project Area below about 2,000 feet included in the URS analysis (for the Swainson's hawk)." See the response to Comment 3 above regarding the disturbance to foraging habitat for golden eagles. As described in Section 4.4, foraging habitat for Swainson's hawk in the Project Area is largely provided by alfalfa and irrigated pasture lands. The presence of such areas is dictated by agricultural practices and factors outside of the Proposed Project, such as the availability of water for irrigation.

Comment 5 – MM 4.4-10 establishes a "minimum no-disturbance buffer of 250 feet will be established around active nests and a 500-foot no-disturbance buffer around the nests of raptors..." These minimum distances do not preclude a larger

buffer area as determined by the qualified biologist performing the pre-disturbance surveys for active bird nests. See also Global Response Bio-1.

B Chris Romanini

Chris Mynk - Re: EIR on oil and gas

From: Lorelei H. Oviatt
To: Chris Mynk; chris ROMANINI
Date: 9/30/15 8:13 AM
Subject: Re: EIR on oil and gas

Good morning Chris,
I appreciate that you are reviewing the information and sending off questions as they come up. So we will attempt to answer your answers by email. However, the proper process, so everyone can benefit from your questions, is for you to be responded to through the Planning Commission staff report. A better way to comment is to put all your questions together into one email and we will submit to Planning Commission and respond.

Idle wells are the under the complete authority of the State of California Division of Oil, Gas and Geothermal not Kern County. We put the actual definitions into the zoning ordinace from DOGGR so those are the rules. Here are the DOGGR information http://www.conservation.ca.gov/dog/idle_well/

Those are important questions however those wells and equipment were established through permits with DOGGR not through the Kern County Board of Supervisors authority. However Public Health responds to complaints of tanks or wells that are leaking. The same question could be asked about abandoned tanks and other equipment used in the farming operations which are all over the county as well. Bankruptcy does not mean the tanks and equipment are not owned and DOGGR does have information on the responsible party. This link also discusses orphan wells. http://www.conservation.ca.gov/dog/idle_well

The referral from the Board in 2013 was not to review and manage existing legacy oil activities. It was to look at a new local permit system to streamline environmental review at the State and look at issues going forward. Your questions about the legacy issues are in the record and we are providing responses but they are not the primary focus of this Zoning amendment and have legal restrictions on how much regulation we can apply. Other agencies such as the Water Board and DOGGR have the primary responsiblity for those existing oilfield equipment, tanks and wells.

Best
Lorelei

Lorelei H.Oviatt, AICP
Director,
Kern County Planning and Community Development 2700 "M" Street Bakersfield, Ca 93301
(661)862-8866 Fax (661) 862-8601

>>> chris ROMANINI <romaninichris2@gmail.com> 09/29/2015 9:58 PM >>>
Thank you. I didn't know what GR nor RTC was. I would still like the answer to my other questions....from reading 19.98.145, information of the idle well regulations that DOGGR will refer to while checking for the county if the idle well is in compliance. How can we please know what are they?

Also, what about equipment in bankruptcy? Is anyone checking for contamination, or leaks, or other risks from tanks and wells in bankruptcy for YEARS?

Thank you
Chris Romanini

On Sep 29, 2015, at 7:27 AM, Chris Mynk <mynkc@co.kern.ca.us> wrote:

Chris,

GR stands for Global Response. These are located in Section 7.2.1 of the RTC. GR-12 is on page 7-149, GR Haz-1 is on page 7-272, and GR-19 is on page 7-169.

As for Section 19.98.145, the zoning ordinance language is located in the RTC on page 7-24.

Hope this points you in the right direction.

Christopher B. Mynk, AICP
Supervising Planner – Permit Assistance Center
County of Kern – Planning and Comm. Dev. Dept.
2700 'M' Street, Bakersfield, CA 93301
(661) 862-8607

>>> chris ROMANINI <romaninichris2@gmail.com> 9/28/15 9:57 PM >>>
I would appreciate help. Replying to my comments, you referred me for the answers to my question to look up.... Response 33-1, GR 12, GR Haz-1, and GR 19. I'm sorry, and I have searched, but I have no idea what GR means. Would appreciate you directing me where to fine this information.

Also, reading 19.98.145, could you please provide the idle well regulations so we know what is in them? Are there rules as to what tests are to be performed and how often? Who performs tests on wells in bankruptcy ?

I would appreciate the information. Thank you

Chris Romanini

C Matt Berry

Chris Mynk - Re: Question about Alternative Choice in application to amend the Kern County Zoning Ordinance

---

From: Matt Berry <matt.berry01@yahoo.com>
To: Chris Mynk <mynkc@co.kern.ca.us>
Date: 10/1/15 11:55 AM
Subject: Re: Question about Alternative Choice in application to amend the Kern County Zoning Ordinance

---

Mr.Mynk,

Thank you for your time and for fulfilling the public records request. It is very much appreciated.

And thank you for introducing me to the PDF file: "Revisions to the Kern County Zoning Ordinance – 2015(C), focused on Oil and Gas Local
Permitting."

In reviewing a passage, I am unable to determine whether I am misreading it or if there are still more gaps in my education here.

On page 160 (page 323 in PDF format), I read ...

The SJVAPCD BACT guideline was last updated in March of 2014 and currently requires 6 ppm NOx at 3% O2
for steam generators that operate at 85 MMBtu/hr; and **7 ppm NOx at 3% O2 for steam generators**
that operate at less than 85 MMBtu/hr.1 By comparison, the low-emission steam generation **technology contemplated by Alternative 5 would be expected to achieve rates comparable to or**
lower than 5 ppm NOx at 3% O2 for steam generators operating at 55 MMBtu/hr. The fact that the
rates in the current SJVAPCD BACT guideline are higher than what is contemplated by Alternative
5 further supports the conclusion that the technology required by Alternative 5 has not yet been
achieved in practice, has not been shown to be presently achievable and is not technologically feasible. Alternative 5 is therefore properly rejected as an alternative.

If the requirements for a steam generator operating at less than 85 MMBtu/Hr are 7ppm or lower, why wouldn't Clearsign's claim (although still unproven) of 5 PPM, operating under 55 MMBtu/Hr, qualify?

Do I have the wrong perspective or am I missing something?

Thanks,
Matt Berry

From: Chris Mynk <mynkc@co.kern.ca.us>
To: Matt Berry <matt.berry01@yahoo.com>
Cc: Lorelei H. Oviatt <LORELEIO@co.kern.ca.us>; Phillip Hall <phall@co.kern.ca.us>; Theresa Goldner <tgoldner@co.kern.ca.us>
Sent: Thursday, October 1, 2015 9:02 AM
Subject: Re: Question about Alternative Choice in application to amend the Kern County Zoning Ordinance

Mr. Berry,

Please see the attached response to your Public Records Request.

Christopher B. Mynk, AICP
Supervising Planner – Permit Assistance Center
County of Kern – Planning and Comm. Dev. Dept.
2700 'M' Street, Bakersfield, CA 93301
(661) 862-8607

>>> Matt Berry <matt.berry01@yahoo.com> 9/24/15 6:15 PM >>>

Chris,

Thank you for your reply.

My name is Matthew Berry

Residential address is
315 Edgecliff Dr.
Langley, WA 98260

Mailing Address is
PO Box 1114
Langley, WA 98260

Phone: 360 222 2280

Thanks,
Matt Berry

> **From:** Chris Mynk <mynkc@co.kern.ca.us>
> **To:** Matt Berry <matt.berry01@yahoo.com>
> **Cc:** Lorelei H. Oviatt <LORELEIO@co.kern.ca.us>; Craig Murphy <MurphyC@co.kern.ca.us>
> **Sent:** Thursday, September 24, 2015 3:33 PM
> **Subject:** Re: Question about Alternative Choice in application to amend the Kern County Zoning Ordinance
>
> Matt,
>
> An email request is sufficient; however, we need your contact information, including a physical address, for our response. We will be responding in 10-

days.

Christopher B. Mynk, AICP
Supervising Planner – Permit Assistance Center
County of Kern – Planning and Comm. Dev. Dept.
2700 'M' Street, Bakersfield, CA 93301
(661) 862-8607

>>> Matt Berry <matt.berry01@yahoo.com> 9/24/15 3:06 PM >>>

Dear Mr. Mynk,

Thank you for clearing up the matter of Clearsign Combustion's status within the EIR. It is very much appreciated.

I would like to make a public records request for documents, correspondence, and other communications surrounding the inclusion of Clearsign Combustion within the EIR. Will this email be sufficient for that request?

Since Clearsign's technology, alone was included in that section of the EIR, and since it received favorable treatment, is it fair to assume that those responsible for Clearsign's inclusion in the EIR had tested the technology or that they are in possession of third party tests of such?

How did Clearsign Combustion manage to be highlighted in the EIR?

Thank you,
Matt Berry

From: Chris Mynk <mynkc@co.kern.ca.us>
To: Matt Berry <matt.berry01@yahoo.com>
Cc: Lorelei H. Oviatt <LORELEIO@co.kern.ca.us>
Sent: Tuesday, September 15, 2015 4:50 PM
Subject: Re: Question about Alternative Choice in application to amend the Kern County Zoning Ordinance

Mr. Berry,

Thank you for your question about the reference to Clearsign Combustion in one of the alternatives included in the EIR for the proposed amendments to Kern County's oil and gas zoning ordinance. You're comment will be addressed in the response to Comment document that is released prior to the Planning Commission hearing. Your understanding is correct that if the Kern County Board of Supervisors approves the ordinance amendments proposed as the Project in the EIR, then none of the Alternatives referenced in the EIR will be enacted.
If the Board votes to approve the Low-Emission Enhanced Oil Recovery (EOR) Technology Alternative, then lower-emission technology would be required under circumstances to be specified by the Board. In no event,

however, would an Alternative require use of any particular technology made by any particular company. Identification of the Clearsign Combustion technology in the Draft EIR was intended to be one illustrative example of the types of technologies that may be available and/or suitable.

Christopher B. Mynk, AICP
Supervising Planner – Permit Assistance Center
County of Kern – Planning and Comm. Dev. Dept.
2700 'M' Street, Bakersfield, CA 93301
(661) 862-8607

>>> Matt Berry <matt.berry01@yahoo.com> 9/10/15 3:39 PM >>>
RE: application to amend the Kern County Zoning Ordinance (Title 19), focusing on Chapter 19.98 (Oil & Gas Production

Dear Planning and Community Development Kern County,

I have prepared several reports for the Securities and Exchange Commission Whistleblower Program regarding a company called, Clearsign Combustion. I have been reading through the Draft Environmental Impact Report and have been reading interpretations of such online. There is seems to be a misunderstanding online as to what the "Alternative proposals" mean.

On the internet there is a claim made about Clearsign Combustion's (CLIR) technology:

"Summary: Proposed mandates would require installation of CLIR's Duplex on every new OTSG and on every existing OTSG within five years in Kern County, California."

From my reading this is not quite right.

Do I understand this correctly?

1. The proposal is to revise the Kern County Zoning Ordinance.
2. There are also Alternatives to this proposal, such as the one mentioning Clearsign's technology, but these will only come in to play if the appropriate officials vote for one of them.
3. If the original proposal passes as is, then none of the Alternatives mentioned in the report will be enacted.

Or, would it be correct to say that proposed mandates would indeed require installation of Clearsign's Duplex technology on every new OTSG?

Any information or guidance here would be greatly appreciated.

Regards,
Matt Berry

The following response to this letter appeared in the addendum to the staff report prepared for the October 5 public hearing before the Kern County Planning Commission:

> An email was received from Matt Berry with questions regarding the reference to a specific company in Alternative 5 – Low Emission Enhanced Oil Recovery Alternative. As explained in the EIR, pg. 7-364 through 7-365, upon further review it appears that Alternative 5 is technologically infeasible because lower-emission steam generation technology is still in the demonstration and prototype stage. Indeed, commenter acknowledges it has not yet been proven that examples of this technology can achieve 5 ppm NOx at 3% O2 for steam generators operating at 55 MMBtu/hr. The EIR points out that the Air District's BACT requirements do not require 5 ppm NOx at 3% O2 for steam generators operating at 55 MMBtu/hr. The EIR makes this point only to demonstrate that, if such technology was commercially available and proven, its implementation would presumably be required as Best Available Control Technology (BACT) by the ARB or SJVAPCD.

D Shute, Mihaly & Weinberger LLP

SHUTE, MIHALY
& WEINBERGER LLP

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HEATHER M. MINNER
Attorney
minner@smwlaw.com

October 1, 2015

Via E-Mail and U.S. Mail

Chairman David Couch
Kern County Board of Supervisors and
Kern County Planning Commission
2700 M Street
Bakersfield, CA 93301

Re: Addressing Oil and Gas Development On Split Estate Lands in the Draft Oil and Gas Zoning Ordinance

Dear Chairman Couch, Honorable Supervisors, and Planning Commissioners:

This firm represents Pacific Ag Management, Inc. in matters relating to the proposed Kern County Zoning Ordinance-2015(C) Focused On Oil and Gas Local Permitting ("Zoning Ordinance" or "Project"). For several years now, Pacific Ag Management and other small farming entities, organized as the Committee to Protect Farmland and Clean Water, have been working with the County to address the land use conflicts that occur all too often between oil and gas development and farming operations on split estate lands. They have asked the County to require a surface owner signature on oil and gas development applications to reduce the impacts to agricultural lands. This would only reinforce the County's own stated Project goals to protect agricultural resources.

However, the County's Revised Draft Zoning Ordinance falls short of providing a process that effectively protects agricultural resources. The Zoning Ordinance does provide an expedited review process for Conformity Review applications that include a surface owner signature. But an application without a surface owner signature can still be approved in a relatively short period of time with minor additional expense and no site-specific review. And there is no provision for a surface owner signature on Minor Activity Review applications. This will not resolve the Project's significant land use and agricultural impacts.

To effectively reduce these impacts, the County should instead truly require applications for Conformity Review and Minor Activity Review permits on split estate lands to include a surface owner signature ("Signature Requirement"). This would ensure that applicants for permits on split estates actually engage with surface owners in order to avoid unnecessary agricultural impacts.

A Signature Requirement would not be unprecedented. The County's existing Zoning Ordinance already requires the surface owner's written consent before drilling within certain distances of specified buildings. §§19.98.020(B), 19.98.040(A). There is no reason this measure could not be applied to protect agricultural land as well.

The Environmental Impact Report ("EIR") for the Project, however, suggests that the County lacks the authority to condition oil and gas development permits on a surface owner's signature. EIR at 7-124. It further suggests that the County could be liable for an unconstitutional taking of private property due to this allegedly unlawful condition. *Id.* But the EIR elsewhere acknowledges, as it must, that the County has the broad police power to restrict and even prohibit oil and gas development. EIR at 7-345. Further, because an applicant would ultimately be able to obtain approval of its oil and gas project, even if it were unable to work out land use conflicts with the surface owner in advance, the Signature Requirement would, at most, result in only a temporary delay in development. The courts have routinely held that such permitting delays do not effect a taking.

As an alternative, the County could modify its existing two-pathways permitting procedure to require applications for Conformity Review and Minor Activity Review permits on split estate lands to include a surface owner signature or, if no signature is included, to be reviewed and approved by the County as an application for a conditional use permit ("Signature/CUP Requirement").

This letter briefly discusses the County's land use authority to limit or condition oil and gas development. It then explains why the Signature Requirement would not result in an unconstitutional taking of private property. Finally, it discusses why the Signature/CUP Requirement still meets the County's Project goals. In short, there is no reason for the County to reject these measures to effectively address the significant impacts of oil and gas development on split estate lands. Indeed, without including such additional measures to protect agricultural resources, the County's environmental review of the Project does not comply with CEQA.

I. The County must adopt additional measures to reduce the significant land use conflicts between oil and gas and agricultural operations.

Adopting measures to address the impacts of oil and gas development on split estate lands has become imperative as production increasingly moves into agricultural areas. The County has recognized numerous instances where oil and gas developers have failed to account for current agricultural and ranching operations in the design of site plans or have failed to discuss potential accommodations with surface owners. Planning and Community Development Department Workshop Staff Report (July 27, 2015) at 12. The EIR itself concludes that "land use conflicts between surface owners, such as agricultural producers, and subsurface mineral rights owners, such as oil and gas developers, would result in a significant impact." EIR at 4.10-87. It further concludes that those land use conflicts can result in the direct and indirect loss of farmland, also a significant environmental impact.[1] *Id.* at 4.2-22.

Accordingly, addressing these land use conflicts is not simply a policy concern. Under CEQA, the County may not approve the Project "if there are feasible alternatives or feasible mitigation measures available which would substantially lessen the significant environmental effects of [the Project]." Pub. Res. Code § 21002. The County may not reject alternatives or mitigation measures based on erroneous legal conclusions. *Id.* § 21081(a)(3); 14 C.C.R. §15126.6(c); *City of Marina v. Board of Trustees of the California State University* (2006) 39 Cal.4th 341.

Adopting the Signature Requirement, or in the alternative the Signature/CUP Requirement, would substantially reduce the Project's significant impacts on agricultural lands. It would provide a meaningful opportunity for surface owners to weigh in on site-specific land use impacts and ensure these impacts are addressed *before* the development occurs.

---

[1] The EIR claims that the proposed Zoning Ordinance and mitigation measures reduce these conflicts to a less than significant level. EIR at 4.2-23, 4.10-88. But, as explained in our comment letter on the Draft EIR, there is no evidence to support these conclusions. Letter from R. Hooper to C. Mynk re Kern County Oil and Gas Draft EIR (Sept. 11, 2015) ("Hooper Letter") at 29, 38. Regardless, the EIR acknowledges that loss of agricultural lands remains cumulatively significant and it therefore must be mitigated to the extent feasible. EIR at 4.2-25; Pub. Res. Code § 21002.

The County claims that the Project reduces land use conflicts by establishing two permit processing pathways. EIR at 4.10-88,t 7-121 to -122. But the additional time and expense required for applications without a surface owner signature are insufficient to incentivize negotiations over significant land use conflicts. In addition, nothing in the second pathway requires the applicant to negotiate in good faith with the surface owner or allows for surface owner input on site-specific land use impacts to lead to additional mitigation measures or conditions of approval. Applicants would not have any incentive to negotiate where necessary modifications would be more expensive than the minor burdens imposed by the second pathway. Further, the prospect of compliance monitoring imposes no disincentive beyond minor additional costs. Applicants must comply with all mitigation measures regardless of how their projects are approved. Critically, the Zoning Ordinance does not create a separate review process for Minor Activity Review permits, despite the fact that many of these activities involve extensive and prolonged use of surface lands. The County must do more to reduce the Project's significant land use and agricultural impacts.

As discussed below, the Signature Requirement is a legally feasible measure the County can adopt to reduce land use conflicts between surface operations and oil and gas development on split estate lands.

II. Mineral rights owners have a limited right to surface use.

It is not unreasonable to require oil and gas developments to take surface uses into account on split estate lands. Mineral rights owners in California hold a "very limited right . . . to drill and capture subsurface oil and gas, and the incidental rights necessary to accomplish this." *Cassinos v. Union Oil Co.* (1993) 14 Cal.App.4th 1770. This includes the right to enter the property "as is reasonably required" to develop the mineral estate. *Wall v. Shell Oil Co.* (1962) 209 Cal.App.2d 504, 511. In exercising these rights, the surface property "may not be burdened to an extent greater than is reasonably necessary in order to allow the owner of the [mineral right] his full exercise thereof." *Id.*

Moreover, mineral rights owners must exercise their limited surface rights in a reasonable manner, taking the surface owner's land use into account. *Id.* at 516-17. For instance, "a particular development on the surface may affect the reasonableness of the oil and mineral owner's choice of location for a particular facility necessary to its operation . . . ." *Id.* at 517.

A Signature Requirement is thus simply a method of ensuring that the site plan does not unduly burden the surface estate. It creates a process to avoid land use

conflicts before they occur, instead of relying on litigation by the surface owner to enjoin unreasonable use or seek damages. Moreover, it is well within the County's authority to impose this requirement.

III. The County has the land use authority to condition and limit oil and gas development.

The County suggests that mineral rights owners have an unassailable right to enter the surface property for oil and gas development. EIR at 6-13, 7-124. It mistakenly concludes that "[t]he County does not have authority to deny this pre-existing right, already held by the mineral owner, by conditioning a permit on express permission of the surface owner." EIR at 7-124. The County bases its taking analysis on the faulty assumption that a signature requirement would therefore be an "unlawful condition." *Id.*

To the contrary, the California Constitution vests cities and counties with the inherent police power to control land uses, including oil and gas development, within their borders. *City of Riverside v. Inland Empire Patients Health &Wellness Center, Inc.* (2013) 56 Cal.4th 729, 742-43 (citing Cal. Const. art. XI, § 7). It is "well settled that the enactment of an ordinance which limits the owners' property interest in oil bearing lands located within the city is not itself an unreasonable means of accomplishing a legitimate objective within the police power of a city." *Beverly Oil Co. v. City of Los Angeles* (1953) 40 Cal.2d 552, 558.

Courts have routinely upheld complete bans on oil and gas development, which are much more onerous than a Signature Requirement. *See e.g. Beverly Oil Co.*, 40 Cal.2d at 558; *Friel v. Cnty of Los Angeles* (1995) 342 P.2d 374, 382-84; *Hermosa Beach Stop Oil Coalition v. City of Hermosa Beach; see also* Cal. Pub. Res. Code § 3690 ("local authorities have the power to "enact and enforce laws and regulations regulating the conduct and location of oil production activities"). Indeed, in evaluating other project alternatives, the EIR acknowledges these cases and concedes that it would be within the County's police power to limit or ban oil and gas land uses. EIR at 7-345.

The County may properly use this authority to protect agricultural operations and farmland from the impacts of oil and gas development. For example, in *DeVita v. County of Napa* (1995) 9 Cal.4th 763, 770 (1995) the California Supreme Court upheld a county measure that required voter approval before agricultural lands could be converted to other uses. The Court found that the measure was a reasonable approach to advance the legitimate objectives of "promot[ing] desired land uses" and protecting "economically productive resources." *Id.* at 791-92. The Signature Requirement would similarly advance these same goals.

In short, conditioning a mineral owner's limited right to access the surface for oil and gas development is not unlawful. Nor would it result in an unconstitutional taking.

IV. A Signature Requirement would not amount to a regulatory taking.

The United States and California Constitutions protect landowners from government acquisition or occupation of their private property without just compensation. U.S. Const. amend. V; Cal. Const. art. 1, § 19. Under certain circumstances, regulations that are tantamount to a physical invasion of property can rise to the level of a taking requiring just compensation. *Penn Cent. Transp. Co. v. City of New York* (1978) 438 U.S. 104 ("*Penn Central*") (denial of permit to construct office building above railroad station did not effect a taking of claimant's air rights). But California cases upholding claims of "regulatory takings" are exceedingly rare, and in most instances, courts have struck down these challenges.[2] Indeed, the courts have previously rejected claims that zoning ordinances prohibiting oil and gas drilling effect a taking of private property. *See Friel*, 172 Cal.App.2d at 148, 157; *Beverly Oil Co.*, 40 Cal.2d at 559.

In conducting regulatory takings analyses, courts consider the impact of the regulation on the "parcel as a whole." *Penn Central*, 438 U.S. at 130 (rejecting any analysis that "divide[s] a single parcel into discrete segments and attempt[s] to determine whether the rights in a particular segment have been entirely abrogated."). The County's analysis in the EIR appears to assume that the mineral rights alone are the relevant "parcel" against which courts will measure the Project's effect. But it cites no authority to support this proposition. Nonetheless, even assuming limited mineral rights are considered a whole parcel for a takings analysis—which no California court has held—a properly drafted Signature Requirement would not effect a regulatory taking.

1. No per se or "categorical" taking would occur.

There are two categories of regulatory takings. The first is a per se or "categorical" taking, which occurs where a regulation deprives the property owner of "*all*

[2] Challengers would not be able to mount a facial challenge to a Signature Requirement. To prevail on a facial challenge, the plaintiff must demonstrate that the ordinance would be invalid in the "great majority of cases," not merely in some particular circumstance. *San Remo Hotel v. City and County of San Francisco* (2002) 27 Cal.4th 643, 673.

economically beneficial uses" of the property. *Lucas v. South Carolina Coastal Council* (1992) 505 U.S. 1003 (emphasis in original). Even a regulation that destroyed 95% of the value of a parcel would still not amount to a categorical taking. *Id.* at 1019 fn. 8. A Signature Requirement does not go so far as to eliminate all of the value of the mineral rights.

County staff, however, envision a hypothetical case in which surface owners refuse to give their signatures and the mineral rights owners would be forced to seek judicial determinations of their rights to surface use, which the County estimates could take 3-4 years. Planning and Community Development Department Workshop Staff Report (Oct. 5, 2015) ("Staff Report") at 59. But the County overstates the likelihood of this scenario. Under the Signature Requirement, litigation would, in fact, be highly unlikely. In the vast majority of cases, the requirement would result in a negotiated agreement between the parties. Negotiated agreements need not be complex or protracted and in many instances the parties will quickly and efficiently arrive at a site plan that is acceptable to all. The Committee to Protect Farmland and Clean Water has repeatedly stated that it respects the mineral owner's rights to develop the mineral estate.

In the unlikely event that the parties cannot reach an agreement, the County is correct that mineral owners would be free to seek a judicial determination of the extent of their right of reasonable access to the surface. (In these rare cases, the County could accept a final court order submitted by the permit applicant in lieu of the surface owner's signature.) But because the mineral owner would eventually receive permission to conduct some or all of the requested oil and gas development there would be no total reduction in value of the mineral estate that would effect a per se taking.

County staff appear also to be concerned with the possibility of a "temporary taking." *See* EIR at 7-346, 7-350 (citing *Kavanau v. Santa Monica Rent Control Bd.* (1997) 16 Cal.4th 761, 775); Staff Report at 151. Under this theory, applicants could suffer a taking because they would be temporarily prevented from any development during the pendency of their permit application. But the United States Supreme Court resoundingly rejected the notion that temporary total restrictions on development constitute a categorical taking in *Tahoe-Sierra Preservation Council, Inc. v. Tahoe Regional Planning Agency* (2002) 535 U.S. 302. There, the Court considered development moratoria that prohibited any permits from being issued over a more than two-year period. Property owners sued, alleging that the regulations effected a temporary categorical taking. The Court held that a property interest of perpetual duration "cannot be rendered valueless by a temporary prohibition on economic use, because the property will recover value as soon as the prohibition is lifted." *Id.* at 332.

Because the Signature Requirement would at the very most result in a temporary delay for the permit applicant, it would not result in a categorical taking. Any takings claims must be evaluated under the *Penn Central* test (*see Tahoe-Sierra Preservation Council, Inc.,* 535 U.S. at 342) and, as described below, would not succeed.

The EIR cites to *Lockaway Storage v. County of Alameda* (2013) 216 Cal.App.4th 161 ("*Lockaway*"), an outlier case in which an agency was held liable for a temporary taking based on its unreasonable and egregious behavior during the permitting process. EIR at 7-124. In *Lockaway*, nearly two years after the claimant had secured all necessary permits and relied on the County's assurances that a voter initiative land use measure did not apply to it, the County changed course and prohibited the project. The court found the agency's about-face "unreasonable" and ruled it resulted in a temporary taking. *Id.* at 168. In contrast to *Lockaway*, a Signature Requirement can be consistently implemented in a reasonable manner not designed to mislead project applicants. Therefore, *Lockaway's* reach is limited and would not apply here.

2. No taking would occur under the *Penn Central* test.

The second type of regulatory taking can occur where the property value is severely diminished as analyzed under a three-prong test identified in *Penn Central.* 438 U.S. at 124. Under the *Penn Central* test, courts must consider: (1) the economic impact of the regulation on the claimant; (2) the regulation's interference with investment-backed expectations; and (3) the character of the government regulation. *Id.* California courts may reject a takings claim based on any one of the three factors. *Allegretti & Co. v. Cnty. of Imperial* (2006) 138 Cal.App.4th 1261, 1277; *see also Ruckelshaus v. Monsanto Co.* (1984) 467 U.S. 986, 1005 (disposing of takings claim solely on absence of reasonable investment-backed expectations).

The bar is high for successful takings claims based on a diminution in value of the property under the *Penn Central* test. As the California Supreme Court explained in *Galland v. City of Clovis* (2001) 24 Cal.4th 1003, 1026, "Police power legislation results in a confiscatory 'taking' only when the owner has been deprived of substantially all reasonable use of the property. . . . Even a significant diminution in value is insufficient to establish a confiscatory taking." We can anticipate no scenario in which the County's application of a Signature Requirement would rise to the level of a regulatory taking under the *Penn Central* test. We are aware of no California authority applying the *Penn Central* test to find that a regulation that might simply delay, rather than prohibiting, development constitutes a regulatory taking.

a. Economic impact

Under the first prong of the *Penn Central* test, the claimant must demonstrate that the regulation has had a severe economic impact. *See Concrete Pipe and Products of California, Inc. v. Construction Laborers Pension Trust for Southern California* (1993) 508 U.S. 602, 645 (noting under the first *Penn Central* prong that a 90% diminution of value does not amount to a taking); *William C. Haas & Co., Inc. v. City and County of San Francisco* (9th Cir. 1979) 605 F.2d 1117, 1120 (95% diminution of value not a taking). Here, a Signature Requirement could lead to modifications in the site plan or the timing of operations, or a delay in acquiring a permit, but it would not prohibit owners from developing on the property. Additionally, a mineral rights owner with existing producing wells on site (or the ability to access the property's oil reserves from adjacent lands) could generate revenue from the property during any negotiations even before construction of the proposed development occurs.

Economic losses due to regulatory delays do not typically give rise to a taking. As the United States Supreme Court has explained, "Mere fluctuations in value during the process of governmental decisionmaking, absent extraordinary delay, are incidents of ownership. They cannot be considered as a taking in the constitutional sense." *Agins v. City of Tiburon* (1980) 447 U.S. 255, 263, n. 9 (internal quotation marks omitted). And courts are highly reluctant to find delays in the permitting process to be "extraordinary." *See Landgate, Inc. v. California Coastal Com'n* (1998) 17 Cal.4th 1006, 1019-20 (two-year delay in permitting process, based on agency's erroneous legal conclusions, did not give rise to a taking).

Site plan modifications and permitting delays would remain insignificant when measured against the long-term productive value of the wells to be placed on a given parcel. Thus any economic impact on the mineral owner's rights from the Signature Requirement would not be significant enough to satisfy this prong of the *Penn Central* test.

b. Investment-backed expectations

Second, a claimant must demonstrate the regulation's interference with reasonable[3] investment-backed expectations. The United States Supreme Court has

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[3] Although in *Penn Central* the Court examined the regulation's interference with *distinct* investment-backed expectations, 438 U.S. at 124, the Court has more recently formulated this inquiry as assessing the extent to which the regulation interferes with the (footnote continued on next page)

stated that the interest in anticipated financial gains is "less compelling" than other property-related interests. *Andrus v. Allard* (1979) 444 U.S. 51, 66. As the Court explained, "loss of future profits—unaccompanied by any physical property restriction—provides a slender reed upon which to rest a takings claim." *Id.* at 66. Here, the Signature Requirement would have minimal effect on the long-term profitability of the mineral interest in question, as once the permit application is approved the owner would be able to develop it fully.

Property owners who acquire split mineral estates do so with the knowledge that there is a high potential for litigation and delay, since the surface rights holders' interests are often adverse. Mineral rights holders wishing to develop their mineral interests must already take into consideration the costs and delays associated with resolving conflicts with surface owners. Moreover, oil and gas operators function in a highly-regulated industry and must expect permitting delays and additional regulatory expenses. *See Kafka v. Montana Dept. of Fish, Wildlife & Parks* (2008) 201 P.3d 8, 24 ("An expectation of profitability in a highly regulated field of business, where a license or permit is required for participation, is virtually never, in and of itself, considered a compensable property interest."). Mineral owners' reasonable expectations are tempered further by the speculative and uncertain nature of mineral extraction and the price volatility of the petroleum market. A Signature Requirement would therefore not unduly interfere with a mineral rights holder's reasonable investment-backed expectations, and claimants would not be able to satisfy this second prong of the *Penn Central* test.

c. Character of the government action

Third, the claimant must demonstrate that the character of the government action rises to the level of a regulatory taking. "A 'taking' may more readily be found when the interference with property can be characterized as a physical invasion by government . . . than when interference arises from some public program adjusting the benefits and burdens of economic life to promote the common good." *Penn Central*, 438 U.S. at 124. A Signature Requirement as part of the permitting process would in no sense resemble a "physical invasion by government." *See Shaw v. County of Santa Cruz* (2008) 170 Cal.App.4th 229, 274 (under the third *Penn Central* prong, there was "no question" that permit denial did not amount to a physical invasion of property). On the

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(footnote continued from previous page)
landowner's *reasonable* investment-backed expectations. *See Palazzolo v. Rhode Island* (2001) 533 U.S. 606, 617.

contrary, it seeks to "promote the common good" by facilitating agreements between surface and mineral owners, thereby minimizing land use conflicts and ensuring that farmland is not converted unnecessarily.

In *Tahoe-Sierra Preservation Council*, the United States Supreme Court noted with approval that moratoria are used widely "to preserve the status quo while formulating a more permanent development strategy." 535 U.S. at 337. A Signature Requirement would similarly preserve the status quo until the parties are able to reach an agreement regarding the site plan. Thus, the Signature Requirement fails to meet the third factor of the *Penn Central* test for a regulatory taking.

Given that it would not meet any one, let alone all three, of the *Penn Central* factors, a properly drafted Signature Requirement would not effect a taking of a mineral owner's private property under the U.S. or California constitutions.

V. Allowing applicants who do not secure a surface owner's signature to apply for a CUP in the alternative would eliminate all takings liability while still achieving the County's goals for the Project.

Although, as described above, a properly drafted Signature Requirement would not result in takings liability for the County, any remaining concern could be eliminated through a process requiring that either an application include a surface owner signature or the applicant must apply for a conditional use permit ("CUP"). In that case, on his or her own initiative, any applicant could preempt permitting delays arising from stalled negotiations by applying for the CUP.

This Signature/CUP Requirement would allow the County to consider the unique aspects of the development site, such as the farm's water source and crop layout, during a public hearing and impose additional, site-specific land use conditions to protect those resources as appropriate. This public process, and the ability to impose additional mitigation and modifications to respond to on-site conditions and public input is not possible under the current Revised Draft Zoning Ordinance. Of course, under the Signature/CUP Requirement, the County must ensure that the applicant would still be required to comply with all of the mitigation measures identified in the EIR to reduce the Project's land use and agricultural impacts. This would include the measures developed in the current pathway for applications without an applicant's signature such as required pre-application notice, providing at least 90 days between when an application is submitted and the start of construction, and on-site inspectors and compliance monitors.

A Signature/CUP Requirement would not be unprecedented. The Revised Draft Zoning Ordinance already provides for an alternative CUP process when applicants cannot comply with other Zoning Ordinance requirements. § 19.98.050(C). It also requires a CUP for oil and gas applications on lands within residential or commercial zones. § 19.98.030(D). There is no reason these measures could not be applied to protect agricultural lands as well.

Such an alternative Signature/CUP requirement would also achieve the County's goals of streamlined environmental review and comprehensive mitigation. Approval could tier off the EIR for the Zoning Ordinance, applying all of its mitigation measures. *See* 14 C.C.R. § 15152. Further, the County would be able to recover the costs of processing the CUP from the applicant, as it does now. County staff estimated that there would be approximately 30 applications on agricultural split estate lands each year. Although the evidence suggests the number will be much higher, the County would still be able to process the few applications that did not include a surface owner signature.

County staff erroneously state that "[i]mplementing a CUP for such a circumstance would mean that the Commission and upon appeal, the Board, would become the arbitrator of a private business dispute about money and value of various surface impacts." Planning Commission Staff Report (Oct. 5, 2015) at 62. These financial matters have never been proper factors considered as part of a CUP process and neither would the County consider them here.

Staff further speculates that "requiring a CUP for such matters has no clear intention other than to provide a platform for litigation under land use law or CEQA for the surface owner or the mineral owner to use in negotiations discussions." *Id.* There is no basis for this inflammatory statement. A Signature/CUP Requirement would strike an appropriate balance by allowing expedited ministerial review for applications with a surface owner signature, while assuring that site-specific impacts will otherwise be addressed through a discretionary public process.

VII. Conclusion

The Planning Commission and the Board of Supervisors should not allow unfounded litigation concerns to prevent it from implementing key changes to the Zoning Ordinance that would minimize the Project's land use conflicts and agricultural impacts. Indeed, CEQA does not allow it to.

Very truly yours,

SHUTE, MIHALY & WEINBERGER LLP

Heather M. Minner
Peter J. Broderick

cc: Theresa A. Goldner, County Counsel
Lorelei Oviatt, Director, Department of Planning and Community Development

709620.11

The following responses to this letter appeared in the addendum to the staff report prepared for the October 5 hearing of the Kern County Planning Commission:

> Additional correspondence was received from Shute, Mihaly & Weinberger LLP on October 1, 2014, several days after the Final EIR was published. Shute, Mihaly, Weinberger, LLP is a law firm representing the Committee to Protect Farmland and Agriculture chaired by Keith Gardner and Holly King. The commenters raised concerns about several of the mitigation measures, analytical methods, and conclusions in the Agricultural Resources section of the Draft EIR, and about the permitting process in the Revised Amended Draft Zoning Ordinance.
>
> The Final EIR Chapter 7 – Response to Comments Volume III includes global responses, and responses to individual comments, as well as modifications to the Agricultural Resources and related mitigation measures. The commenters numbered each of the comments; responses to each are provided below:
>
> **Letter Introduction** – Commenters correctly note that the Revised Zoning Amendment does not require a split estate surface owner's signature on applications for Conformity Review or Minor Activity Review permit applications. Commenters alleges that CEQA obligates the County to adopt one of two measures, proposed by Commenters, that would "reduce the Project's significant impacts on agricultural lands" by providing "a meaningful opportunity for surface owners to weigh in on site-specific land use impacts and ensure that impacts are addressed."
>
> The commenters' first proposed measure – the "Signature Requirement" - would require applications for Conformity Review and Minor Activity Review permits on split estate lands to include a surface owner signature. In effect, the Signature Requirement would grant every split estate surface owner veto power over all future oil and gas activities throughout the Project Area. The commenter's second proposed measure - the "Signature/CUP Requirement" - would require applications for Conformity Review and Minor Activity Review permits on split estate lands to include a surface owner signature or, if no signature is included, to be reviewed and approved by the County as an application for a conditional use permit. In effect, the Signature/CUP Requirement would give every surface owner the power to determine which future oil and gas activities on split estates will be subject to future discretionary review (including additional CEQA review) by the County.
>
> The commenters' opinion regarding the legality of their two proposed measures are noted. To the extent Commenters make these proposals as policy recommendations, the comments are provided to your Commission for consideration. However, the County is not legally obligated by CEQA to implement either the Signature Requirement or the Signature/CUP Requirement, and Staff is not recommending such changes to the proposal.
>
> Further information is provided in Chapter 7 – Response to Comments Volume III Global Responses 1, 2 and 4, and Global Response Ag-1.

Letter Section I – Commenters are correct that the EIR concludes that the Project would cause potentially significant land use conflicts. Commenters' opinion that implementation of the Signature Requirement or the Signature/CUP Requirement would avoid agricultural impacts is noted. Commenters provide no substantial evidence that the Signature Requirement or the Signature/CUP requirement would reduce any significant environmental effects of the Project. Commenters acknowledge that their proposed measures would facilitate discussion between applicants and split estate surface owners, and would provide surface owners an opportunity to "weigh in" on site-specific proposals, but do not explain how the Project's environmental effects would thereby be reduced.

Under CEQA, the efficacy of a mitigation measure must be apparent, based on substantial evidence showing that it will reduce or avoid an identified environmental problem. *See Communities for a Better Environment v. City of Richmond* (2010) 184 Cal.App.4th 70, 95. Without such evidence, neither the Signature Requirement nor the Signature/CUP Requirement qualify as valid mitigation under CEQA. See CEQA Guideline § 15370. Moreover, it is well established that counties have the authority to amend their zoning ordinances to make uses permissible by-right, or to make uses permissible through a ministerial approval process. CEQA does not curtail the traditional authority of counties, under their police powers and under the State's Planning and Zoning Law, to make certain uses permissible through a ministerial approval process. If a CUP permitting process were required by CEQA as a "mitigation measure," as commenters' suggest then local governments could never amend their zoning ordinances to make any use permissible by-right or through a ministerial approval process.

Please also see Chapter 7 – Response to Comments Volume III Global Responses 1, 2 and 4, and Global Response Ag-1.

Letter Section II – Commenters are correct that California law currently requires mineral owners to act reasonably when exercising mineral rights so as to not unduly burden the surface estate. Commenters are also correct that surface owners have available legal remedies in the event the mineral owner violates its legal obligations to the surface owner. Despite such remedies, Commenters maintain that CEQA *obligates* the County to adopt the Signature Requirement or Signature/CUP Requirement in order to relieve surface owners of the perceived burdens of litigation. This comment suggests that the real purpose of commenters' proposed measures is not reducing environmental harm, but rather reducing the economic and social burdens associated with the judicial process. CEQA does not require mitigation for the Project's purported social and economic impacts. *See* CEQA Guidelines § 15131(a).

In the context of split estates, the County is unaware of any regulatory requirement that conditions the use of the mineral estate on the volition of the surface estate owner, or vice versa. To the contrary, state law often protects the right of one split estate owner from the whims of the other. For example, under the Subdivision Map Act, all final subdivision maps and parcel maps must be signed and acknowledged by all parties having any record title interest in the subdivided real property, as a condition of approval. Cal. Gov't Code §§ 66436(a), 66445(e). However, the Map Act expressly provides that mineral rights owners are excluded from this requirement, thus protecting the surface owner's authority

to subdivide its property without being required to obtain the permission of the mineral rights owner. Cal. Gov't Code §§ 66436(a)(3)(C), 66445(e).

Letter, Section III – The Commenters' opinion regarding the County's authority to limit the mineral estate owner's surface access without liability is noted and will be provided to the Planning Commission and Board of Supervisors for consideration. In considering Commenters' advice on this matter, it must be noted that this law firm is currently representing and advising organizations and local governments seeking to completely prohibit oil and gas extraction techniques throughout California. See "Using Municipal Zoning to Limit or Ban Fracking in California Communities," available at http://earthjustice.org/features/using-municipal-zoning-to-limit-or-ban-fracking-in-california-communities# (accessed October 2, 2015). Through this representation, this law firm is committed to zealously advocate for the legal and financial feasibility of prohibitions on oil and gas development. This is not a comment on the adequacy of the EIR and does not require a detailed response Please also see Chapter 7 – Response to Comments Volume III Global Responses 1, 2 and 4, and Global Response Ag-1.

Letter, Section IV – The Commenter's opinion regarding the County's authority to limit mineral estate owner's surface access without liability is noted and will be provided to the Planning Commission and Board of Supervisors for consideration. This is not a comment on the adequacy of the EIR and does not require a detailed response. Please also see Chapter 7 – Response to Comments Volume III Global Responses 1, 2 and 4, and Global Response Ag-1.

Letter, Section V – The Commenters' opinion regarding the County's authority to limit the mineral estate owner's surface access without liability is noted and will be provided to the Planning Commission and Board of Supervisors for consideration. This is not a comment on the adequacy of the EIR and does not require a detailed response.

The Signature/CUP Requirement is infeasible mitigation for the same reasons that the EIR determined that the CUP Alternative is infeasible. As explained in Global Response Alt-2, the basic objective of the Project is to eliminate time-consuming and costly discretionary reviews of individual well and field development activities by establishing a ministerial site plan review process which incorporates mitigation identified in this EIR. Commenter's proposed Signature/CUP Requirement would defeat this basic project purpose because it would replace the Project's ministerial site plan review process with a more complex and costly discretionary review process in cases where surface owner signature is refused. CEQA does not require an agency to consider a mitigation measure that is infeasible or itself may constitute a project at least as complex, ambitious, and costly as the underlying project. *See Concerned Citizens of South Central L.A. v. Los Angeles Unified School Dist.* (1994) 24 Cal.App.4th 826, 842.

As discussed above, if Commenter were correct that CEQA compels the County to implement the Signature Requirement or Signature/CUP requirement, it logically follows that no local government could ever legally issue a ministerial land use approval that might adversely affect an adjacent landowner without first obtaining the adjacent landowner's written permission. This conclusion is absurd and violates the well-established principle

that proposed mitigation "must be judged against a rule of reason." *Long Beach Savings & Loan Assn. v. Long Beach Redevelopment Agency* (1986) 188 Cal.App.3d 249, 264.

Under the County's zoning ordinance, a "conditional use" is "a use permitted in a particular zoning district only upon showing that such use in a specified district will comply with all the conditions and standards for the location or operation of such use as specified in this title." Kern County Code of Ordinances, Title 19, § 19.04.156. The Zoning Ordinance provides a general set of findings that the decision-making authority must make when determining whether to issue a Conditional Use Permit, namely that:

A. The proposed use is consistent with the goals and policies of the applicable general or specific plan.
B. The proposed use is consistent with the purpose of the applicable district or districts.
C. The proposed use is listed as a use subject to a conditional use permit in the applicable zoning district or districts or a use determined to be similar to a listed conditional use in accordance with the procedures set out in Sections 19.08.030 through 19.08.080 of this title.
D. The proposed use meets the minimum requirements of this title applicable to the use.
E. The proposed use will not be materially detrimental to the health, safety and welfare of the public or to property and residents in the vicinity.

Kern County Code of Ordinances, § 19.104.040. In many specific cases, a conditional use permit application also requires consideration and application of specific development standards detailed in the Zoning Ordinance. See, e.g., § 19.30.030, 19.80.010-080 (incorporating a series of development standards governing street and road dedications, drainage, water supply, etc.).

None of the required standards and findings for CUPs hinge on the volition of, or agreements between, specific property owners. The CUP standards and findings are policy considerations, which the County must apply in a uniform manner. See Cal. Gov't Code § 65852 (zoning ordinances must be uniform). The standards in the Zoning Ordinance governing the issuance and consideration of a CUP do not relate in any way to the issue of whether a surface owner and a mineral rights owner have reached a private agreement. It would be unwise as a policy matter, and essentially arbitrary, to apply the established standards for CUP issuance based solely on the decision of an objecting surface owner.

By specifically providing in which districts, and for which uses, a conditional use permit should be required, the Zoning Ordinance reflects the careful consideration of the Board of Supervisors and the Planning Commission of the public interest of the County. It is this careful, policy-based consideration by a public agency that renders the zoning power a legitimate exercise of local government authority. See *Associated Home Builders, Inc. v. City of Livermore* (1976) 18 Cal.3d 582, 604 (exercise of the zoning authority cannot be "clearly arbitrary and unreasonable") (internal citations omitted). If the Board were to adopt the Signature/CUP Requirement, the decision about where, and under what circumstances, a CUP would be required would not be made based on any judgment by any Kern County appointed or elected official. The decision would instead be delegated

to a specific property owner, and that property owner could exercise the authority without regard to any of the specific standards and findings in the Zoning Ordinance. This amounts to an arbitrary exercise of the zoning power. "While a zoning regulation must serve the general welfare . . . [i]t must [also] provide at least some criteria to govern its application." Longtin's California Land Use (2013) (citing *Friends of Davis v. City of Davis* (2000) 83 Cal.App.4th 1004).

As a policy matter, it is unwarranted for the County to conclude that a conditional use permit should be required for a use based on the decisions of a particular property owner. "Typically . . . a local zoning ordinance will provide for other uses that are not permitted as of right, but for which a CUP must be obtained." Curtin's Land Use & Planning Law (2014), at 56. "The CUP is well recognized by zoning administrators and the courts as a necessary and proper method to provide flexibility and alleviate hardship." *Id*. (citations omitted). "A conditional use permit . . . allows a use permitted rather than proscribed by the zoning regulations, but because of the possibility that the permitted use could be incompatible in some respects with the applicable zoning, a special permit is required." *Sports Arenas Properties, Inc. v. City of San Diego*, 40 Cal. 3d 808, 815 (1985). The Board of Supervisors and delegated officials should exercise their discretion to require a conditional use permit based on their considered expert judgment about which zoning districts are appropriate for a given use, and in which zoning districts the use could be considered incompatible in some respects with applicable zoning. These are policy decisions for the Board of Supervisors to make and the Planning Commission to advise, and they do not hinge on whether a particular set of property owners have, or have not, reached a private agreement with one another.

In addition, the United States Supreme Court has held that it is unconstitutional for a local government to enact an ordinance that, "by conferring the power on some property owners to virtually control and dispose of the property rights of others, creates no standard by which the power thus is to be exercised." *Eubank v. City of Richmond* (1912) 226 U.S. 137, 143-44. The Signature Requirement, and even the Signature/CUP Requirement, would confer sole authority upon specific property owners to direct the land use processes of the County and affect the ability of other property owners to achieve permit approvals. Where an ordinance "enables the convenience of one set of property owners to control the property rights of others," it is "an unreasonable exercise of the police power." *Id*. at 144.

Please also see Chapter 7 – Response to Comments Volume III Global Responses 1, 2 and 4, and Global Response Alt-2.

Staff notes that a concern has been raised by various surface owners and the Farm Bureau that the new requirements for surveys such as for biological and cultural resources will require access to the property even before any permit application to the county. As noted in Exhibit A Section 19.98.080 G (3) access to the site is subject to existing agreements and State regulations. Staff will be preparing brochures and a Handbook for implementation of this new program and will require the department every year to send a letter out to all known oil and gas applicants and consultants encouraging contact with their surface owner and initiating discussions about timing of surveys before accessing properties.

E Center for Biological Diversity (October 5)



CENTER *for* BIOLOGICAL DIVERSITY *Because life is good.*

October 5, 2015

Via Overnight Mail and Email
Christopher B. Mynk, AICP
Supervising Planner
MynkC@co.kern.ca.us
Kern County Planning Department
Public Services Building
2700 M Street, Suite 100
Bakersfield, CA 93301-2370

Re: Supplemental Comments on the Environmental Impact Report for Kern County Zoning Ordinance Revisions 2015 C

Dear Mr. Mynk:

On behalf of the Center for Biological Diversity, I am submitting the following comments in regards to the final EIR related to Kern County's Zoning Ordinance Revisions.

Inadequate Time for Review E-1

The County has made it infeasible for the public to provide thorough feedback during the environmental impact report (EIR) process. At the close of business on Tuesday, September 29, 2015, the County emailed the Center for Biological Diversity to announce the availability of the Staff Report that contained the revisions to the draft EIR. The County announced that it would only take additional comments until Oct 5, 2015, leaving only *four business days* to review and comment on thousands of pages of material, including the Staff Report, final EIR (FEIR), revised appendices, and scores of responses to comments. In a Notice of Public Hearing, sent via first class mail, the County actually encourages comments to be submitted even sooner, by September 28, 2015. This was only two days after the notice was received, and a day *before* the Staff Report was made available.

The purpose of the California Environmental Quality Act is to allow public participation and encourage inclusive, reasoned decisionmaking through a deliberative process. The County's short-circuiting results in an unacceptable exclusion of the public and precludes the opportunity to fully examine the potentially disastrous consequences of this proposed Project. The EIR cannot be certified until the public has had a full and fair opportunity to provide input on the final EIR.

Furthermore, the changes from the draft EIR are substantial and merit further evaluation.

The Changes to the Final EIR Will Result in New Impacts E-2

Kern County claims that changes will not result in any new impacts. FEIR 7-3. But this is inaccurate. The revised EIR now allows operators to contract with one another to transport wastewater from site

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to site. The ordinance now contains "or by reciprocal agreement among oil and gas operators in Kern County"[1] The new method of wastewater disposal could lead to significant increases in environmental harm, for example by increasing truck traffic, spills, and accidents by permitting operators to send waste to other sites. E-2 Continued

The FEIR also now states that if the number of new wells exceed the annual maximum number of ministerial permits (3,647), operators may *still* be able to operate by obtaining a conditional use permit (CUP).[2] The FEIR states that this CUP may not trigger further environmental review, which makes the ministerial permit maximum meaningless. Without a meaningful and enforceable maximum for the number of wells that may be drilled, the FEIR cannot serve as assessment of the "worst-case scenario." The actual number of new wells each year may exceed the so-called "maximum" without triggering additional environmental review. E-3

The FEIR was also changed to now include cogeneration facilities and landfills to require a CUP.[3] However, the FEIR does not contain adequate analysis of these two types of facilities and their respective environmental effects. It is impossible to evaluate the propriety of issuing CUPs to such facilities given that they were only recently added to the scope of the so-called Project. The public has no information on the standards to which these facilities will be held, nor any basis to evaluate their impact on air, water, health and other potential impacts. E-4

The FEIR changed its minimum setback distances so that oil and gas activity can occur *even closer* to schools, churches, hospitals and places of assembly.[4] While the original setback distance from such places was 300 feet, the revised setback distance is only 210 feet. The FEIR provides inadequate explanation of why the setback was changed and what the environmental health consequences of this change will be. E-5

The FEIR contains significant changes to HRA and air modeling assumptions, including using the 20 in one million standard rather than 10 in one million.[5] The allowable risk has effectively *doubled* without an adequate chance for the public to comment. E-6

The FEIR eliminated the conformity review requirement for a number of activities if they are part of other ongoing activities.[6] This new exemption is a substantial change and should be evaluated fully to assess what additional environmental effects will result from exempting additional activities from conformity review. E-7

The revised ordinance now requires that operators report dwellings and structures within 1,550 feet instead of 3,000 feet for certain wells, greatly reducing the ability of the County and the public to see what houses are at risk when a new well is drilled.[7] E-8

[1] FEIR at 7-6.
[2] FEIR at 7-6
[3] FEIR at 7-8.
[4] FEIR at 7-8.
[5] FEIR at 7-227.
[6] FEIR at 7-11-13.
[7] FEIR at 7-16.

The revised ordinance also allows for one-year extensions for unused permits.[8] The newly added ability for operators to renew permits instead of a firm expiration creates the potential for increased oil and gas activity and increased harm to the environment and public health. E-9

The EIR is incomplete and unclear in some areas. At page 7-24, it merely states "All compliance costs shall be" without any further explanation. Beginning at 7-26, it is unclear whether the marked changes are from the original local ordinance or are demarking the changes in the ordinances between the draft EIR and the final EIR. E-10

The FEIR contains a new exemption for spraying roads and vehicle tracking control if the speed limit is 15 mph.[9] It is unclear from the FEIR whether this new exemption will result in an increase in fugitive dust. Also, a new exemption was put in place for transmission line under 86 kV.[10] There is inadequate analysis of what the effects of this exemption will be. E-11 E-12

The FEIR states that an operator is liable for sampling and testing costs that occur within 300 of a leak.[11] The costs incurred by the operator should be not just for the sampling after a spill, but for all damages attributable to the spill. The radius should be measured from the area of the *spill*, not just the point of the leak. The damage, and the need for sampling, is a function of where the spilled chemicals go, not where they start. E-13

The requirement for erosion control changed from requiring that operators prevent erosion to the greatest extent feasible to now simply stating a minimum standard.[12] The changed standard undoubtedly will result in far more soil erosion. E-14

The air emissions evaluation impermissibly excludes significant sources of air pollution

The EIR's evaluation of air emissions and their effects is incomplete. Ponds that collect wastewater and allow harmful chemicals to escape into the air and not included in the EIR simply because they are not immediately adjacent to the wellhead.[13] The exclusion of ponds is a critical deficiency of the EIR. E-15

Well stimulation emissions are also excluded from the air emissions analysis. The EIR argues that there are no emissions from fracking and other forms of well stimulation other than from engines, but that is not true. The CCST report states that "Examples of direct impacts of well stimulation include … off-gassing of VOCs from stimulation fluids held in retention ponds and tanks."[14] Hydrocarbons, including smog-forming VOCs and TACs, are the major components from fugitive and vented emissions from well stimulation materials, pipe lines, and flowback water.[15] The CCST E-16

[8] FEIR at 7-19, 21, 23.
[9] FEIR at 7-48.
[10] FEIR at 7-58.
[11] FEIR at 7-72.
[12] FEIR at 7-81.
[13] FEIR at 7-239.
[14] CCST Report, Vol. II at 185.
[15] Id. at 243.

report concluded plainly that "well stimulation is a potential source of air quality impacts in California."[16]

The South Coast Air Quality Management District (SCAQMD) measured air emissions on site and found strikingly high concentrations of air toxics, including elevated levels of benzene and other "BTEX" chemicals.[17] Tests also showed non-methane organic compounds (NMOC) at levels well above maximum concentrations—3,000 and 13,000 parts per billion in separate locations.[18] E-17

The EIR also claims that there are no emissions from so-called "operational" oil and gas activities.[19] The FEIR bases its conclusion that setbacks from operational activities are unneeded on this false assumption. Operational activities include energy-intensive operations such as enhanced oil recovery (steamflood, cyclic steam injection, etc.) which require vast amounts of energy to heat and inject fluid under pressure. The energy involved creates emissions. The EIR incorrectly claims that other operational activities do not create air emissions. Sumps, pits, and ponds, for example, allow harmful chemicals to evaporate. E-18

In its list of oil and gas-related air emission sources, the California Air Resources Board itemized a number of sources associated with operational activities that the EIR claims does not result in emissions. These include: steam generators, steam drive wells, cyclic steam wells, fugitive emissions from the wellhead, valves, fittings, and evaporation from sumps and pits.[20] The air pollution from these operational activities was excluded from analysis. E-19

The FEIR suggests fracking ban would increase greenhouse gas emissions.[21] This conclusion relies on s tenuous assumptions unsupported by substantial evidence. It cannot be assumed that a halt to well stimulation would lead to a 1:1 replacement in oil production techniques using more intensive methods. It also cannot assume that global oil transportation would increase if a fracking ban were in place. Finally, assuming that demand will stay constant is inaccurate given state, federal, and international commitments to reduce the use of oil in the coming years. E-20

Mitigation Measures do not guarantee reduced harm

Throughout the EIR, certain measures are referred to as "requirements" even though they are not required conditions that operators must meet before obtaining a permit. For example, speed limits are inconsistent and are enforced "unless otherwise posted."[22] The "requirement" to avoid grades of 30% or greater is no longer mandatory if the operator cannot find another suitable location.[23] E-21

[16] Id. at 261.
[17] SCAQMD, Working Group Presentation, Update on Implementation of Rule 1148.2, Nov. 12, 2014, pp. 43-44.
[18] Id.
[19] FEIR at 7-237.
[20] CCST Report Vol. 2 at 199, citing CARB (California Air Resources Board) (2013), Almanac Emission Projection Data: 2012 Estimated Annual Average Emissions by California Air District. California Environmental Protection Agency, Air Resources Board. http://www.arb.ca.gov/ei/maps/statemap/dismap.htm
[21] FEIR at 7-364
[22] FEIR at 7-116.
[23] FEIR at 7-117.

Elsewhere, the draft EIR used to state that operators "shall implement the most up to date best management practices as part of their normal operations"[24] Now, the FEIR allows for "equivalent industry standards" which are unspecified. And operators are permitted to decide which standards are "practicable."[25] Such mitigation measures are unenforceable and all but meaningless. E-22

Legal Authority to Prohibit Oil and Gas Activity

As a local government, the County has the legal authority under the State Constitution, state statutes, and state case law to prohibit oil and gas activity if it so chooses. Counties may dictate the conduct and location of oil and gas activity, as well as the intensity of land use within its jurisdiction. Risks to public health are also well within the County's police power. The County may also abate nuisances for the public benefit. E-23

The FEIR also claims that it does not have the authority to regulate well stimulation. That is not the case. San Benito recently passed Measure J, which pit in place a ban on fracking and all other extreme extraction. The oil and gas industry offered empty threats to sue, and ultimately there were no real challenges to the law, a testament to its solid legal foundation.

The Baseline Analysis Is Insufficient

The baseline of activity against which this Project is to be compared should be no oil and gas activity. Current oil and gas activity was never reviewed under CEQA, and it is contrary to the purpose of CEQA to allow an agency to use its past failure to analyze environmental harm and bake it into a new evaluation. E-24

Moreover, the admitted "wide fluctuations" [26] of the number of well completions indicates that the County has not adequately considered the worst case scenario of oil and gas development. Furthermore, the County is now claiming that it may allow more new wells regardless of what the cap supposedly limits. The County claims that it need only issue a new CUP, without environmental review, making the stated maximum meaningless. E-25

The FEIR does not provide adequate information to the public to assess whether the baseline is accurate. The County claims such information is proprietary and cannot be disclosed.[27] Without this information, there is no way for the public to fully assess whether the baseline or the projected activities are based on substantial evidence. E-26

The FEIR Does Not Adequately Disclose Risks to Water

The authors of the CCST report made several recommendations in light of the serious risks posed by oil and gas activity. The FEIR fails to follow basic science-based recommendations. E-27

[24] FEIR at 7-72
[25] Id.
[26] FEIR 7-138
[27] FEIR 7-137, n. 55.

For example, the FEIR claims it is consistent with CCST Recommendation 5.1, which urges agencies to deny permits for well stimulation at shallow depths unless it can be proven safe.[28] A ministerial permit issuance, complying only with the mitigation measures offered in the FEIR, would not ensure that water contamination could be avoided. E-27 Continued

Other activities that have a history of contaminating groundwater also put groundwater at risk. The FEIR admits, "To date, confirmed water quality impacts in the Project Area have been associated with the use of percolation ponds and, in one instance, with subsurface injection."[29] Given these risks, the CCST recommends an end to percolation ponds and sumps that allow wastewater to seep into the ground.[30] The FEIR is not consistent with CCST Recommendation. E-28

The CCST Report also calls for science-based setback distances between all oil and gas activity and sensitive receptors.[31] The FEIR is not consistent with 6.3, which call for "science-based" setback distances. The FEIR does not set forth substantial evidence to show that its de minimis setback distances will protect public health. E-29

The FEIR states that other state agencies have interpreted Cal. Pub. Res. Code § 1786 to prohibit any wastewater from a well that has undergone well stimulation from being disposed of in an unlined pit.[32] The FEIR stops short of stating that the *County* interprets the law this way as well. Without a clear explanation, it is ambiguous whether the County plans to prohibit this dangerous method of disposal. E-30

The FEIR Fails to Disclose Risks from Chemicals

Throughout the FEIR, the County fails to acknowledge the risk posed by chemicals used in the oil and gas process. Only a fraction of chemicals used in well stimulation are known, and even fewer have publicly available information about their toxicity. Further, there are no studies of flowback fluid and what chemicals constituents are created after the well stimulation fluid has reacted with the formation. Without a full list of chemicals used in well stimulation and a list of byproducts, the FEIR is inadequate. E-31

The FEIR would allow wastewater from fracking sites to be used in later EOR operations. Since EOR operations do not have the same restrictions as well stimulation fluid disposal, this creates a loophole through which chemicals in fracking wastewater may wind up in wastewater from EOR wells. Due to this possibility, all wastewater should be treated as equally dangerous and subjected to the same restrictions. E-32

Moreover, the FEIR does not include a full list of chemicals used at other stages of development. For example, drilling muds contain many toxic chemicals, yet there is no requirement to disclose those chemicals. It is unsafe to dispose of this fluid into an unlined sump, yet that is precisely what happens at most sites. The FEIR does not adequately describe the risks from this practice. E-33

[28] CCST Report Vol. 2 at 38.
[29] FEIR at 7-156.
[30] CCST Report Vol. 2 at 25.
[31] CCST Report Vol. 2 at 46.
[32] FEIR at 7-201.

Produced water from well that do *not* undergo well stimulation is still dangerous. Produced water typically contains harmful chemicals such as benzene, heavy metals, and radioactive elements. Yet the FEIR allows this wastewater to be sprayed on the ground for dust control, or used for irrigation, or simply sprayed for land disposal.[33] Stimulation fluid is impossible to separate from produced water in the development process.[34] Using the water for irrigation may create a pathway for chemicals to reach soil and food.[35] The FEIR does not include a full characterization of this wastewater, and thus fails to describe the full extent of the environmental harm that may result from these activities. E-34

Responses to Comments are inadequate

Despite providing ample evidence of the harms resulting from the oil and gas activity in Kern County, the lead agency has either ignored these concerns or responded with incorrect information. In light of the insufficient responses, the Center incorporates its September 11, 2015 Comment letter here, and reiterates the issues and concerns raised in that letter. E-35

Some examples of insufficient responses to the Center's comments include:

0045-53: E-36

The County states that there is no evidence that older wells may act as conduits for chemicals. The CCST Report states clearly that older wells do present a risk to act as a release mechanism connecting oil industry chemicals with groundwater. One the science panel's conclusions was:

> *California operators use hydraulic fracturing mainly in reservoirs that have been in production for a long time. Consequently, these reservoirs have a high density of existing wells that could form leakage paths away from the fracture zone to protected groundwater or the ground surface.*[36]

A water expert testified to the State Water Board stated similar concerns: "We know that the material degrades over time. And you're talking about ... the history of improperly abandoned wells… Well integrity is probably going to turn out to be a major issue in the future, but to figure out what it is, we're going to have to do these other things first because it's going to be really hard to find a lot of little leaks and figure out where they came from. And that zonal isolation is really the place where the greatest risk is for future water quality degradation."

0045-59: E-37

The County incorrectly asserts that groundwater contamination has not occurred. This untrue statement reflects either a significant misunderstanding of the basic facts regarding groundwater contamination or a deliberate attempt to confuse the issue. In fact, it is undisputed that thousands of

[33] FEIR at 7-295.
[34] State Water Resources Control Board, April 8, 2015 Workshop Transcript at 27.
[35] Id. at 30.
[36] CCST Report, Vol. II at 38.

injection wells have been operating in aquifers that quality as underground sources of drinking water under the Safe Drinking Water Act. These groundwater resources must remain free from contaminants unless and until an EPA-approved exemption is in place. In the case of several thousand wells, as admitted by DOGGR, these exemptions were not in place, meaning the injections of oil industry wastewater and other fluids have been allowed to contaminate those aquifers. To deny this serious harm to our groundwater is a concerning deficiency of this EIR.

E-37
Continued

0045-69:

E-38

The County states that no information has been provided regarding widespread injection activity above the fracture pressure. DOGGR has in fact admitted that it is aware of operators that inject fluids at pressures above the fracture gradient. At a March 10, 2015 hearing before the California Senate Environmental Quality Committee, DOGGR Supervisor Steven Bohlen was asked, "Do you know that operators are injecting steam at pressures high enough to fracture the formation? Is that happening right now?" Supervisor Bohlen replied, "I believe it is. Steam injection into diatomite requires that, in order to produce oil from diatomite, you have to connect the pockets of oil bearing fluids that exist in the diatomite."[37][38] In an investigation by the US Government Accountability Office, DOGGR admitted that injection pressures exceeding the fracture gradient of the formation were widespread:

> *According to California officials, in practice, California allows injection above fracture pressure in certain specific cases. Diatomite rock requires steam injection over fracture pressure to create permeability channels in the formation, so that the oil can flow and be extracted.*[39]

Further, the Senate Committee found ample evidence of these violations, concurring that "DOGGR has acknowledged that cyclic steam injection routinely exceeds fracture gradient of the formation in violation of [state] regulations."[40]

The Response to Comment incorrectly states that steam injection is not subject to UIC regulations. The UIC program (14 CCR §§ 1724.6-1724.10) apply to *any subsurface injection* (§ 1724.6). In addition, the UIC regulations even contain a section specifically dedicated to steam injection (§ 1724.8). The County's statement reveals a critical misunderstanding of state regulations.

The FEIR suggests cyclic steam above fracture pressure might be permitted in certain cases if operators "comply with the terms and conditions" under DOGGR's review.[41] But there are no

[37] State Water Resources Control Board, April 8, 2015 Workshop Transcript at 68.
[38] Joint Hearing Senate Natural Resources and Water Committee and Senate Environmental Quality Committee held on March 10, 2015, Transcript at 84:20 to 85:1.
[39] U.S. Government Accountability Office, *Drinking Water: EPA Program to Protect Underground Sources from Injection of Fluids Associated With Oil and Gas Production Needs Improvement*, 86 (June 2014).
[40] Background Information, Joint Hearing Senate Natural Resources and Water Committee and Senate Environmental Quality Committee held on March 10, 2015 at 12.
[41] See FEIR at 7- 118, MM 4.8-12.

circumstances in which injection can exceed fracture pressure, as the County acknowledges in its response to comment.[42] E-38 Continued

Steam injection above the fracture pressure is extremely dangerous and has already led to one fatality in the field. The FEIR fails to fully analyze the safety risks of injection activities.[43]

The FEIR Fails to Adequately Disclose, Analyze and Mitigate Impacts to Biological Resources

Despite the ample scientific evidence of the harms to species and ecosystems resulting from oil and gas activities as documented in our comments, the FEIR has ignored these concerns, ignored the submitted studies, and/or responded with incorrect information.[44] Like the DEIR, the FEIR (1) improperly excludes many special-status species from analysis; (2) fails to adequately disclose and analyze the direct and indirect impacts of the Project; (3) proposes mitigation measures that are impermissibly vague, improperly deferred, and unenforceable; (4) fails to include feasible mitigation measures to reduce significant Project impacts; and (5) contains a flawed cumulative impacts analysis.

Below we provide examples of the continued deficiencies in the Biological Resources section of the FEIR, with reference to the Response to Comments (RTC): E-39

0045-91: E-40

The FEIR continues to improperly exclude analyses for Category 3 species that occur in the Project area and which are ESA-listed, sensitive, or special-status, although analyses of impacts is required by CEQA (e.g., CEQA Guidelines, Appendix G, for Biological Resources, requires analysis of the following impacts: "Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations or by the CDFW or USFWS"). The FEIR also fails to identify and analyze Project impacts on movements of native resident and migratory species as required by CEQA (e.g., CEQA Guidelines, Appendix G, "Interfere substantially with the movement of any native resident or migratory fish or wildlife species, or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites"). The changes in the FEIR and the mitigation measures do not address these concerns.

0045-95: E-41

[42] Response to Comment 45-69 ("Therefore, Class II injection wells are always required to operate with a pressure below the fracture gradient.")

[43] See DOGGR Spill Binder, documenting the death of David Taylor caused by a sink hole caused by cyclic steam injection above the fracture pressure.

[44] The FEIR fails to disclose and analyze the findings of submitted published studies documenting a large array of harms of oil and gas exploration, development, and production on species and ecosystems. In the Biological Resources section of the RTC, the County claims to not have received these documents, and only later in RTC 0045-133 admits to receiving these documents. However, the critical information in these studies is not incorporated into the FEIR.

E-41
Continued

The FEIR fails to adequately disclose and analyze the adverse impacts from habitat fragmentation, edge effects, and density effects that will result from the Project. The FEIR fails to disclose the findings of numerous submitted studies reporting the negative effects of habitat fragmentation, edge effects, and density effects from oil and gas development and production on wildlife and ecosystems; misrepresents the findings of the study *Ecosystem Analysis of Oil Fields in Western Kern County* (Fiehler and Cypher 2011) in a way that downplays the implications of this study; and fails to conduct an analysis of how the Project will increase habitat fragmentation, edge and density effects in the Project area.

In discussing the study *Ecosystem Analysis of Oil Fields in Western Kern County* (Fiehler and Cypher 2011), the FEIR states that the study found that native species persist in areas of oil and gas development at "medium" levels of disturbance. However, the FEIR misrepresents what the study classifies as a "medium" level of disturbance by failing to disclose that a "medium" level is defined as 33% mean area disturbed, which is a much lower disturbance level than implied by the FEIR. The FEIR fails to disclose that species persistence in medium disturbance areas does not mean that species are not suffering from adverse impacts (e.g., reduced reproduction or population size); these populations may be functioning as "sinks," as noted by the study. The FEIR also fails to acknowledge that Fiehler and Cypher (2011) conclude that habitat disturbance should be restricted to a maximum level of 70%, but that this level will still result in substantial adverse effects on species and ecosystems. At this level, many rare species are likely to be extirpated, there is only "occasional use" by some native species, and only some habitat connectivity remains. Thus at a 70% disturbance level, it is indisputable that substantial adverse impacts are occurring due to direct and indirect effects of habitat loss and fragmentation.

Finally, the FEIR attempts to excuse itself from analyzing and mitigating the substantial adverse impacts of Project activities under the pretext that oil and gas development is not as harmful as other development activities. The submitted scientific studies document the wide array of harms to species and ecosystems from oil and gas development, and this claim does not relieve the FEIR from full disclosure, analysis and mitigation of these harms.

E-42

0045-99, 045-100:

The FEIR fails to disclose and analyze the impacts associated with well stimulation. Although the FEIR tries to claim that the impacts from well stimulation cannot be separated from those from oil and gas development, numerous submitted studies, including the CCST report, clearly demonstrate otherwise. The impacts to biological resources from toxic fracking chemicals, noise pollution from frack jobs, and fracking-enabled oil and gas production are examples of impacts that are clearly attributable to well stimulation. A recent study by Latta et al. (2015), for example, found that the Louisiana waterthrush, a riparian songbird, has accumulated metals associated with fracking in two watersheds where fracking occurs, illustrating that well stimulation poses separate and additional harms that must be analyzed and mitigated.

E-43

0045-101:

The FEIR fails to adequately disclose and evaluate the impacts of chronic spills of oil, fracking fluids, produced water, and other chemicals on species and ecosystems. The mitigation measures in

the FEIR related to the reporting and clean-up of contamination are inadequate to prevent catastrophic impacts from oil and chemical spills, and do not address wildlife and ecosystem-specific needs, such as spill response crews trained for wildlife clean-up and ecosystem-specific remediation.

E-43
Continued

0045-102:

The FEIR attempts excuse itself from analyzing and mitigating the impacts from noise pollution on biological resources by making the unsubstantiated claim that "wildlife species have long since adapted to ambient noise conditions in Kern County." However, submitted scientific studies demonstrate long-term negative effects of acute and chronic noise pollution from oil and gas development on species and ecosystems, which refute the FEIR's claim. The FEIR must disclose, analyze, and mitigate noise pollution impacts, including mitigation measures that implement protective measures for sensitive wildlife species.

E-44

0045-103, 0045-104:

As acknowledged by the FEIR, the analyses and mitigation measures for impacts to water quality and quantity fail to address impacts to biological resources (e.g., "while this consideration did not expressly take into consideration the effect of existing and ongoing overdraft and drought conditions on biological resources" at 0045-103).

E-45

0045-107 to 0045-114:

Despite the wording changes, mitigation measures are still impermissibly vague, improperly deferred, and effectively unenforceable, making them invalid under CEQA, as detailed in our comments on the DEIR.

E-46

0045-115 to 116:

Mitigation measure 4.4-15(l) ("All activity shall use previously disturbed areas to the maximum extent feasible to minimize the amount of new disturbance") is vague (e.g., there are no limits on the cumulative allowable habitat loss and fragmentation for special-status species over the 25 years of the Project), improperly deferred, and unenforceable, and thus inadequate under CEQA to mitigate the significant impacts from habitat loss and fragmentation resulting from the Project. As noted in our comments on the DEIR, the FEIR should require that oil and gas development and production are sited outside of the boundaries of identified habitat for special-status species, including scientifically defensible buffer zones surrounding these habitat areas that account for the sensitivities of affected species to noise pollution, light pollution, human activity, and other human disturbance resulting from the Project. No development should be permitted within high and moderate suitability habitat for special-status species, movement corridors, or designated critical habitat (i.e., Buena Vista Lake ornate shrew, California condor, red-legged frog, and California tiger salamander).

E-47

0045-117:

We reiterate that incidental take is not allowed for Fully Protected Species under the California Fish and Game Code.

E-48

0045-118 to 119: E-49

The FEIR ignores commenters' concerns in these sections, as it does commonly throughout the RTC and FEIR.

0045-120: E-50

The mitigation measures for light pollution do not consider Biological Resources, such as requiring activities to be scheduled outside of important periods for special-status species, and are inadequate to mitigate the significant impacts to species and ecosystems.

0045-129: E-51

The FEIR incorrectly states that the existing Biological Resources mitigation framework captures the commenter's proposed mitigation. The FEIR fails to provide specific, binding, enforceable mitigation measures that would avoid oil and gas development and production in special-status species habitats, important movement corridors, and sensitive natural communities, and set limits on cumulative habitat loss for the ~164 special-status species and 15 sensitive natural communities in the Project Area in light of other projects, as suggested by the commenter.

Global Responses Contain Specious Arguments Regarding the Effect of the Project

Among the many inaccurate and insufficient responses offered in the Global Responses, the FEIR claims that issuing ministerial permits is "environmentally superior" to discretionary approvals because every project must mitigate for impacts that may not apply.[45] This is untrue. First, many of the mitigation measures are not actually legally enforceable and offer operators alternatives to complying with the mitigation measure. Even if all mitigation measures are followed, individual projects may cause unique environmental and health damage based on a variety of factors. These individualized harms will not be mitigated under the ministerial permit regime, nor will the public even have the opportunity to raise such concerns to the County. E-52

The FEIR fails to provide a sufficient justification for using the FEIR as a project-level EIR. Despite its claim that "[t]his EIR contains a comprehensive analysis of the impacts of the proposed Project,"[46] the evaluation falls far short, as discussed above. The level of detail is insufficient to disclose all the risks from such a wide variety of activities, in a diverse landscape, involving different and often unknown chemicals. The EIR does not help the public or decision-makers effectively weigh the true cost of environmental harm from widespread oil and gas activity for the foreseeable future. E-53

The FEIR rejects setting a time for updating its analysis of the effects of oil and gas activity, yet limits its impacts to 20 -25 years.[47] This incongruence demonstrates the inappropriateness of using a

[45] FEIR at 7-98-99.
[46] FEIR at 7-100.
[47] FEIR at 7-109.

"project" EIR. Most projects have a lifespan, at the end of which a renewed environmental review may account for changes. Because the Ordinance never expires, there is no assurance that the County will take into account the changing circumstances and technologies in the oil and gas industry. E-53 Continued

The FEIR also improperly relies on compliance from the oil and gas industry.[48] The widespread violations of the Safe Drinking Water Act, which led to the contamination of numerous protected aquifers, is an indication that noncompliance should be expected. E-54

The FEIR also assumes that exemptions will be granted for aquifers that have been subject to improper injection by the oil and gas industry. The aquifers currently qualify for protection under the SDWA and should be treated as such for the purposes of this FEIR. In fact, evidence shows that many of the aquifers are contain water far too clean to qualify for an exemption. The FEIR should include an analysis assuming no further exemptions are granted. As stated above, the FEIR also incorrectly states that water contamination is speculative. It has in fact been documented and admitted by DOGGR that wastewater has contaminated clean sources of drinking water: "The Division acknowledges that in the past it has approved UIC projects in zones with aquifers lacking exemptions."[49] E-55

The FEIR improperly limits the analysis of environmental harm by excluding entirely foreseeable downstream effects such as refining and combustion.[50] One justification is that these effects may occur outside the County or the state, but the FEIR is not hesitant to look beyond the state to analysis other impacts, such as the greenhouse gas emissions analysis.[51] E-56

Supplemental Materials E-57

The Responses to comments states that the County did not receive certain studies supporting the Center's comments. For ease of reference, a list of references for this supplemental comment letter is attached. Some of the sources are those pertaining to comments in the September 11, 2015 comment letter, including studies finding benzene and other chemicals in produced water.

Conclusion E-58

The FEIR is substantively and procedurally deficient for the reasons above and those stated in the Center's September 11, 2015 comment letter submitted in response to the draft EIR. It is legally untenable for the County to create one omnibus project-level EIR to address the myriad environmental and health risks of the oil and gas industry.

[48] FEIR at 7-304.
[49] DOGGR, letter to US EPA Region IX, Feb. 6. 2015 at 3 and Enclosure B, listing wells injecting into protected aquifers.
[50] FEIR at 7-244.
[51] FEIR at 7-246.

Respectfully submitted,

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List of References Cited and Attached

1. Cart, J., "High Levels of Benzene Found in Fracking Waste Water," Los Angeles Times, Feb. 11, 2015.
2. Cart, J., "Potentially harmful chemicals found in oil field water used for irrigation," Los Angeles Times, June 20, 2015.
3. Center for Biological Diversity, Cancer-causing Chemicals Found in Fracking Flowback From California Oil Wells, Feb. 11, 2015, data compiled from DOGGR database available at
4. DOGGR, letter to US EPA Region IX, Feb. 6. 2015 and Enclosure B
5. DOGGR, Benzene in Water Produced from Kern County Oil Fields Containing Fresh Water (1993)
6. DOGGR, 2011 Spill Binder (Documents related to cyclic steam injection fatality)
7. Joint Hearing Senate Natural Resources and Water Committee and Senate Environmental Quality Committee held on March 10, 2015, Transcript
8. Joint Hearing Senate Natural Resources and Water Committee and Senate Environmental Quality Committee held on March 10, 2015, "Background Information".
9. State Water Resources Control Board Hearing, April 8, 2015, Transcript.
10. SCAQMD, Working Group Presentation, Update on Implementation of Rule 1148.2, Nov. 12, 2014
11. U.S. Government Accountability Office, *Drinking Water: EPA Program to Protect Underground Sources from Injection of Fluids Associated With Oil and Gas Production Needs Improvement* (June 2014).

Responses to the October 5, 2015 comment letter from the Hollin Kretzmann, Center for Biological Diversity (Letter E), are as follows:

E-1

Volumes 3 and 4 of the Final EIR were posted to the State Clearinghouse on September 25, 2015, and the Staff Report for the Kern County Planning Commission hearing was posted to the Kern County Planning & Community Development Department website on September 29, 2015. The commenter states that the County precluded public comment on the Final EIR in a manner that is inconsistent with the purpose of CEQA. The commenter provides no authority for this statement. Lead agencies must provide a public comment period for a Draft EIR. Public Resources Code § 21092; CEQA Guidelines §§ 15087, 15088. However, CEQA does not require a lead agency to provide a public comment period on a Final EIR before it is certified and the project is approved. CEQA Guidelines § 15089(b). Additionally, the Final EIR was not certified by the Planning Commission, the commenter did review and comment on the Final EIR, and these comments have been considered by the County notwithstanding having been sent to the County Planning staff via email less than one hour prior to the commencement of the Planning Commission meeting.

E-2

The commenter refers to Section 19.98.040.B of the Revised Amended Ordinance, which defines the scope of oilfield fluid waste and produced water disposal that is "accessory" to an application for Oil and Gas Conformity Review. The Revised Amended Ordinance allows one application to include both drilling a well and accessory offsite waste disposal by reciprocal agreement among operators. However, this change determines only whether activities may be included in the same or separate applications. It does not represent a new method of wastewater disposal as claimed by the commenter. The physical activities that are regulated by the Revised Amended Ordinance and are considered in the EIR have not changed, and the Revised Amended Ordinance does not create any new or substantially more severe impacts than those considered in the Draft EIR.

E-3

The commenter states that the Revised Amended Ordinance allows wells in excess of the 3,647 wells per year cap, through a conditional use permit ("CUP") which may not require CEQA review, resulting in new environmental impacts. Issuance of a CUP is a discretionary approval subject to compliance with CEQA. Future CUPs for wells in excess of the cap, if any, will be subject to further review as appropriate pursuant to CEQA, Pub. Res. Code Section 21166. Please see Global Responses 1 and 2.

E-4

The commenter states that the scope of the Project has been improperly expanded to include cogeneration facilities and landfills. Cogeneration facilities and landfills are not included in the scope of the project description that is studied in the FEIR. For that reason, the Revised Amended Ordinance, Section 19.98.050.E, was revised to clarify that cogenerations and landfills

are *excluded* from the ministerial permit process established by the ordinance amendments and instead require a Conditional Use Permit.

E-5

The setback for operational noise impacts was adjusted from 190 feet from residential dwelling units and 300 feet from places of public assembly, institution or schools, based on the Revised Noise Assessment, Appendix V-1. Please see Global Response Air-3 regarding the sufficiency of the Health Risk Assessment, Global Response Air-5 regarding the cumulative analysis of the Health Risk Assessment, Global Response Air-6 regarding the revised Health Risk Assessment and the San Joaquin Valley Air Pollution Control District (SJVAPCD) methodology, and Global Response Air-10 regarding Health Risk Assessment setbacks and other setbacks. As explained in these responses, there is no offsite health risk from operational emissions. The largest applicable sensitive use setback for operational impacts is the noise setback of 210 feet.

E-6

Please see Global Response Air-6. The San Joaquin Valley Air Pollution Control District sets a risk threshold of 20 in one million. For the Final EIR, the Health Risk Assessment analyzed both the 10 in one million and 20 in one million standards and found that in no scenario would the risk exceed 20 in one million. In only one scenario would the risk be greater than 10 in one million, and in that scenario the risk is below the 10 in one million threshold at a distance of 182 feet, which is less than the 210 foot noise setback required by MM 4.12-2.

E-7

The Revised Amended Ordinance did not eliminate the requirement for Conformity Review for ongoing activities at facilities subject to the Ordinance. Instead, the table in Section 19.98.070 was revised to clarify that ongoing activities are required to be included as specified in the Conformity Review process, but that Conformity Review is not retroactively triggered by ongoing operation of existing wells, facilities and equipment that had been constructed before the Revised Amended Ordinance was adopted.

E-8

The commenter refers to Section 19.98.085.F.4 in part, but this section of the Revised Amended Ordinance must be read as a whole. For wells drilled to a depth greater than 10,000 feet, the location of all dwellings located within 3,270 feet must be shown on the site plan, which is an increase from 3,000 feet as provided previously. For wells drilled to a depth less than 10,000 feet, the location of all dwellings located within 1,550 feet must be shown on the site plan. These distances are intended, and are sufficient, to ensure that the appropriate setbacks from dwellings will be maintained for wells drilled at different depths. Please see Global Response Noise-1 and Global Response Air-10 for a discussion of setbacks.

E-9

The commenter objects to the Revised Amended Ordinance as allowing new extensions of unused permits. In fact, the changes in Sections 19.98.090.I, 19.98.100.J and 19.98.120.I create an expiration date, subject to extension, where the previous draft of the ordinance would have allowed permits to remain effective indefinitely. Thus, these changes reduce the effective duration of permits.

E-10

The commenter has identified a typographical error in the Revised Amended Ordinance, Section 19.98.140, and states that it is unclear whether the marked changes beginning on p. 7-26 represent changes from the original zoning ordinance or changes between the Draft and Final EIR. The marked changes on pages 7-26 through 7-43 of the EIR display changes to the existing zoning ordinance. All text on pages 7-36 through 7-43, beginning with the revisions to Chapter 19.12, Exclusive Agriculture (A) District, was added after publication of the Draft EIR. In addition, the following pages also contain new amendments to the zoning ordinance which were proposed after publication of the Draft EIR:

Pages 7-30 through 7-31:

19.66.020 PERMITTED USES

The following uses and all others determined to be similar to these uses pursuant to Sections 19.08.030 through 19.08.080 of this title are permitted in a PE District:

A. Wells for the exploration for and development and production of oil or gas or other hydrocarbon substances if the well or wells are located more than ~~three~~two hundred and ten (~~300~~210) feet away from any existing dwelling or existing building utilized for commercial purposes, excluding those premises utilized solely for storage of equipment, material, household goods, or similar material.

B. Deepening or redrilling, within the existing well bore, of any well used for the production or development of oil or gas or other hydrocarbon substances, or the replacement of any production facility which did not require a conditional use permit on the date drilling began or the date the facility was installed.

C. Drilling of a replacement well when the original well did not require a conditional use permit, and where the original well has been abandoned in accordance with California Division of Oil and Gas regulations and drilling of a replacement well commences within one (1) year of the conclusion of abandonment procedures, and the replacement well is located within twenty (20) feet of the original well or is farther from any existing dwelling or commercial building than the original well.

D. Uses permitted by the base district with which the PE District is combined.

19.66.030 USES PERMITTED BY A CONDITIONAL USE PERMIT

The following uses and all others determined to be similar to these uses pursuant to Sections 19.08.030 through 19.08.080 of this title are permitted in a PE District subject to

securing a conditional use permit in accordance with the procedures set out in Chapter 19.104 of this title:

A. Wells for the exploration for and development and production of oil or gas or other hydrocarbon substances if the well or wells are located within ~~three~~two hundred and ten (~~300~~210) feet of any existing dwelling or existing building utilized for commercial purposes, excluding those premises utilized solely for storage of equipment, material, household goods, or similar material.

B. Conditional uses permitted by the base district with which the PE District is combined.

Page 7-33 (new text shown in *italics*):

D. The exploration for or development or production of oil, gas, or other hydrocarbon substances ~~shall not be considered nonconforming uses of land~~ lawfully constructed prior to MONTH, DAY, YEAR shall be considered nonconforming uses of land. Any subsequent ~~*alteration or expansion of these facilities is*~~ *maintenance, production, operations, well stimulation treatments, alterations or expansion, and other activities involving existing wells, including ancillary facilities, are allowed* subject to Chapter 19.98 of this Title.

Page 7-34:

19.108.060 NONCONFORMING SETBACKS

Any use permitted under the provisions of this title that currently exists with nonconforming setbacks may:

1. Be replaced in the same location if damaged or destroyed by fire, earthquake, explosion, or act of God regardless of the cost of such reconstruction; or
2. Be maintained in accordance with the provisions of this Title provided there is no greater degree of nonconformity with regard to setback.

Page 7-35:

REGIONAL OR INTERSTATE TRANSMISSION PIPLINE FACILITIES — COUNTY REVIEW

[…]

19.08.230 REGIONAL OR INTERSTATE TRANSMISSION PIPELINE FACILITIES — COUNTY REVIEW

Before any right-of-way for transmission lines is acquired for regional or interstate facilities, the proposed route shall be submitted for the Planning Director review and recommendation.

The typographical error and the revisions to pages 7-26 through 7-43 will not result in environmental impacts not analyzed in the Final EIR.

E-11

The comment refers to revisions to MM 4.2-2(d) and (e), which require dust suppression and vehicle tracking control on unpaved roads unless speeds are restricted to 15 mph. The SJVAPCD has determined that a speed limit of 25 mph is sufficient to control fugitive dust emissions from unpaved roads; see SJVAPCD Rule 8061, section 5.2.5 ("Each owner/operator shall establish a maximum speed limit of 25 mph on each unpaved road with 26 AADT [annual average daily traffic] or more and shall post speed limit signs, one in each direction, per mile of road segment in urban areas, and per two miles of road segment in rural areas"). Revised MM 4.2-2(d) and (e) are more conservative in requiring dust suppression and vehicle tracking control where speeds exceed 15 mph.

E-12

The comment refers to MM 4.4-9(f), which provides that no overhead transmission line may be used at a site without prior approval of the US Fish & Wildlife Service and California Department of Fish & Game, and which was revised in section 7.1.4 to limit the approval requirement to transmission lines greater than 85 kV. This change has been reversed, and the original mitigation measure language from the Draft EIR has now been reinstated.

E-13

The commenter reads MM 4.8-4(d) to require the Applicant to address the effect of hazardous material releases by sampling within a strictly limited radius of 300 feet from the point of origin. This is an incorrect reading of MM 4.8-4(d). The mitigation measure requires sampling and analysis of "the *potentially affected area*, which *may include* soil, groundwater, outdoor or indoor air of sensitive receptors within 300 feet of the leak" (emphasis added). Moreover, the sampling in MM 4.8-4(d) is in addition to the requirements of MM 4.8-4(b), under which it is the applicant's responsibility to "clean up contaminated media (e.g., soils)" without limiting the size of the affected area.

E-14

The commenter objects to the clarification of MM 4.9-2(a) by revising the best management practice of "Limiting vegetation removal to the maximum extent practicable" to "Limiting vegetation removal to the minimum required." This is not a relaxation of the standard. Rather, the revision defines the "maximum extent practicable" more stringently, as applied to vegetation removal, by limiting vegetation removal to the smallest amount necessary for construction.

E-15

Please see GR Air-11 for a consolidated discussion of emissions from sumps, ponds, and pits and their consideration in the EIR, which has been augmented to address this comment.

E-16

Please see GR Air-8 for a discussion of well stimulation emissions and their consideration in the EIR. Well stimulation emissions are not excluded from the air quality analysis. As explained in GR Air-11, the HRA in Appendix M considers emissions from a co-located pit or sump in its analysis. Thus, TACs from activities related to well stimulation are considered. Fugitive VOC emissions were also accounted for in the EIR. As explained in GR Air-4, fugitive VOC emissions from well-head components (valves, flanges, connectors, etc.) were calculated for all wells (active and idle wells) using EPA and SJVAPCD approved calculation procedures. *See* DEIR at 4.3-83 (discussing fugitive VOC emissions from permitted stationary equipment such as production tanks); 4.3-85 (discussing fugitive VOC emissions from permit exempt equipment such as piping components and downstream equipment). In addition, emissions from sumps and pits co-located with well sites are captured in the 10% allowance for permit exempt equipment in the EIR. *See, e.g.* DEIR at 4.3-85, -88. Under DOGGR regulations, produced water from wells subjected to stimulation can no longer be disposed of in ponds.

E-17

The comment cites to a South Coast Air Quality Management District Working Group Presentation, Update on Implementation of Rule 1148.2. pg. 43-44. These pages discuss sampling and monitoring return fluids from a catch basin and return fluids from an Adler Tank. The presentation states that results showed elevated levels of several metals and non-methane organic compounds (NMOC). However, these samples do not realistically represent exposure of individuals near oil and gas operations. The samples were taken within two (2) feet of return fluid from gravel packing that was either in a catch basin or in a storage tank. The Presentation itself states that elevated NMOC can be reduced by using carbon canisters for Adler tanks and keeping hatches closed. Thus, these emissions do not represent ambient emissions that would affect public health. Nor did the Presentation state what levels of benzene and other "BTEX" chemicals were found, other than to state that they were "elevated" (without defining "elevated").

The commenter also states that these measurements were taken "on site" without stating where they were taken. In fact, these measurements were taken directly above catch basins and inside Adler Tanks at facilities in the South Coast Air Basin. These emissions exist in locations that the public and off-site receptors would never be exposed to. In addition, the South Coast Working Group found no elevated levels of PM10 or H2S from handheld air emission monitoring devices (s*ee* pg. 42), and found a cancer risk of less than 7.12 in one million for all drilling events analyzed (*see* page 25). The South Coast's presentation does not suggest that elevated emissions of metals or NMOC exist in the ambient air in the Project Area due to oil and gas operations. The Project's HRA in Appendix M is an actual, realistic analysis of the specific health risks from toxic emissions due to Project implementation. The comment's general statements about a limited number of toxic emission samples at discrete locations in facilities in a different air basin do not provide substantial evidence of any error in the HRA conclusions. Please see Appendix M and GR Air-3 and Air-6.

E-18

The commenter mischaracterizes a statement in the responses to comments (FEIR at 7-237): "The Draft EIR explains that there is *no offsite health risk* from operational emissions, thus there is no setback requirement for operational air emissions" (emphasis added). The cited page does not state that there are "*no emissions* from so-called 'operational' oil and gas activities" (emphasis added) as commenter suggests. In fact, such emissions from operational oil and gas activities are fully analyzed in the HRA in Appendix M, as further described in the DEIR. *See* DEIR Appendix M at page 6 (discussing operational equipment emissions from oil processing equipment and natural gas combustion equipment). The language in GR Air-10 merely reiterates the conclusion from the HRA in Appendix M that operational emissions do not exceed the relevant threshold for health risk assessments and thus no setback is required for operational activities. Nowhere does the DEIR or response to comments suggest that there are no emissions from operational activities. In addition, thermal enhanced oil recovery and steam generators are covered in the air quality analysis in the EIR. *See, e.g.* DEIR Table 4.3-11a and Table 4.3-11b at 4.3-76. *See also* DEIR at 4.3-83 – 85 (discussing TEOR wells and the emission from such). Please see GR Air-11 for a discussion of emissions from sumps, ponds, and pits.

E-19

As explained in response to comment 0072-18, the EIR does not claim that operational activities have no emissions. Emissions from steam generators, EOR wells, fugitive emissions, and emissions from sumps and pits are all considered in the DEIR. Please see GR Air-11 and comment 0072-15 for a discussion of emissions from sumps, ponds, and pits. As explained in GR Air-4, fugitive VOC emissions from well-head components (valves, flanges, connectors, etc.) were calculated for all wells (active and idle wells) using EPA and SJVAPCD approved calculation procedures. *See* DEIR at 4.3-83 (discussing fugitive VOC emissions from permitted stationary equipment such as production tanks); 4.3-85 (discussing fugitive VOC emissions from permit exempt equipment such as piping components and downstream equipment). In addition, emissions from sumps and pits co-located with well sites are captured in the 10% allowance for permit exempt equipment in the EIR. *See, e.g.* DEIR at 4.3-85, -88.

E-20

The commenter states that there is no substantial evidence to support the conclusion that a ban on hydraulic fracturing would increase greenhouse gas emissions. In the California Council on Science & Technology's (CCST) report, the CCST concluded that "[o]il produced in California using hydraulic fracturing also emits less greenhouse gas per barrel than the average barrel imported to California." Petroleum consumption in California has declined from its peak in 2007 by some 82,000 barrels, and demand may further decline in the long term as noted by the commenter. Nevertheless, according to the U.S. Energy Information Administration, the state still demands 628,656 barrels per year. A ban on hydraulic fracturing would result in immediate demand for replacement of production enabled by that technology, including imports from outside of California or from areas within the state requiring more intensive extraction. The potential for increased greenhouse gas emissions was one of several reasons that a ban on hydraulic fracturing was not selected. Please see Global Response Alt-2 for further discussion of a ban on hydraulic fracturing.

E-21

Please see Global Response 16 for a discussion of the EIR's mitigation measures and Global Response 19 for a discussion of enforcement of mitigation measures. The 20 mph speed limit in MM 4.415 "unless otherwise posted" to avoid and minimize potential impacts to protected and sensitive species may be superseded by more restrictive speed limits as required by other mitigation measures, such as MM. 4.4-11(c)(5)("A speed limit of 10 miles per hour shall be posted and observed within 0.25 miles of any reported blunt-nosed leopard lizard observation"). The comment suggests that MM 4.6-3, addressing the risk of landslides, has been revised so that it "no longer" requires avoidance of slopes of greater than 30%. This is incorrect. As provided in both the Draft EIR and the Final EIR, MM 4.6-3 requires avoidance of slopes greater than 30% or site-specific professional engineering certification concluding that the new equipment will not cause landslides.

E-22

Please see Global Response 16 for a discussion of the EIR's mitigation measures and Global Response 19 for a discussion of enforcement of mitigation measures. The comment objects to revised MM 4.8-6 which replaces the reference to "best management practices" with specified industry standards to prevent accidental releases of waste into water bodies or water sources. All activities much comply with all applicable federal and state laws and regulations, County ordinances and mitigation measures, and the use of alternative industry standards must be certified by a professional engineer, certified industrial hygienist or certified safety professional to be as or more protective of human health and the environment as compared to the standards in the referenced US EPA manual. The revisions to MM 4.8-6 provide more specific and restrictive mitigation performance standards.

E-23

Please see Global Response Alt-2 for a discussion of the County's authority with regard to a ban on hydraulic fracturing. Regarding the lack of litigation challenging Measure J, which banned hydraulic fracturing in San Benito County, it should be noted that, according to press reports, no hydraulic fracturing was actually being conducted in San Benito County prior to passage of Measure J, neither by the small operator who initially challenged the measure and then dismissed its claim, nor by any other operator. See http://www.mercurynews.com/drought/ci_27861090/fracking-oil-company-drops-lawsuit-attempting-overturn-san. Moreover, according to data posted by DOGGR, total oil production in San Benito County in 2014 was only 0.01% of production in Kern County in 2014. See http://opi.consrv.ca.gov/opi/opi.dll, last viewed 10/15/15. As such, the consequences of No Hydraulic Fracturing Alternative evaluated in the EIR would be far more significant than the ban on hydraulic fracturing that was not in fact occurring based on adoption of of Measure J in San Benito County.

E-24

The comment states that the EIR should use a baseline of no oil and gas activity because existing oil and gas activity was not previously reviewed under CEQA. However, nothing in CEQA states

that baseline activities must have undergone CEQA review in order to be included in the baseline. Moreover, the approach used to evaluate impacts from oil and gas activities undertaken pursuant to the amended ordinance is conservative because the future environmental impacts associated these wells are considered impacts of the Project, even though they represent a continuation of existing activities.

It is well settled that existing activities occurring within the project area at the time CEQA review begins are treated as a part of the existing conditions baseline. *Communities for a Better Env't v. South Coast Air Quality Mgmt. Dist.* (2010) 48 Cal.4th 310, 321. This is so even if an existing facility or operations have not previously been reviewed under CEQA. For example, in *Citizens for E. Shore Parks v State Lands Comm'n* (2011) 202 Cal.App. 4th 549, the State Lands Commission prepared an EIR for renewal of a lease for a marine terminal serving an oil refinery. The baseline for the lease renewal included the terminal and its ongoing operations. As a result, the environmental impacts of terminal operations were treated as an existing environmental condition rather than as impacts that would result from lease renewal. The court rejected the argument that the baseline should have excluded use of the terminal and, possibly, the physical structure (and instead use conditions that had not existed at the site for more than a century). Explaining that the baseline in an EIR should reflect "real conditions on the ground," the court upheld the EIR's analysis. *Id.* at 558.

The existing condition "baseline" properly includes existing activities that have not previously undergone environmental review – even if they were unpermitted or illegal. In *Fat v. County of Sacramento* (2002) 97 Cal. App. 4th 1270, a private airport operated for decades and even expanded, all without any obtaining the required conditional use permit. After zoning enforcement actions by the county, the airport applied for a conditional use permit ("CUP"), for which the county prepared a negative declaration. The baseline used in the negative declaration included the ongoing, unpermitted airport operations. As a result, the negative declaration concluded that continued operation of the airport under the CUP would not have significant environmental impacts. When the negative declaration was challenged, the court stated that CEQA review is not the appropriate forum for determining the nature and consequences of prior conduct of a project applicant, nor was it appropriate to analyze prior CEQA review of other projects in the preceding years. *Id.* at 1279-1280. Accordingly, the negative declaration's use of the airport's preexisting but illegal activities was properly included in the baseline, and its continued operation under a CUP would not have significant environmental impacts. See also *Bloom v. McGurk* (1994) 26 Cal.App.4th 1307, 1312–1316 & fn. 3 (stating that an existing facility, for purposes of a categorical exemption under CEQA, means a facility "as it exists at the time of the agency's determination, rather than … at the time CEQA was enacted"; this is consistent "with cases that have required potential impacts to be examined in light of the environment as it exists when a project is approved.").

Other cases have likewise held that even unpermitted activities can properly be considered when determining the baseline activity level for a project under CEQA. See, e.g., *Riverwatch v. County of San Diego* (1999) 76 Cal. App. 4th 1428, 1453 (baseline for a proposed quarry development was the actual condition of the land, even though some existing environmental degradation had resulted from prior illegal mining and clearing activities)*; Eureka Citizens for Responsible Government v. City of Eureka (*2007) 147 Cal.App.4th 357, 370–371 (baseline for proposed

school playground use was the existing playground facility, even though prior construction of the facility may have violated the city's code); *Lighthouse Field Beach Rescue v. City of Santa Cruz* (2005) 131 Cal.App.4th 1170, 1194 (in approving revisions to a general plan, the city's baseline determination was not required to consider the extent to which existing, unpermitted use of the beach by off-leash dogs contributed to the existing conditions); *Citizens for East Shore Parks,* 202 Cal. App. 4th at 561 (baseline includes existing "unauthorized and even environmentally harmful conditions"); *see also Center for Biological Diversity v. Department of Fish & Wildlife* (2015) 234 Cal.App.4th 214, 249 ("This is so even if the current condition includes unauthorized and even environmentally harmful conditions that never received, and, as a result of being incorporated into the baseline, may never receive environmental review"); *Banning Ranch Conservancy v. City of Newport Beach* (2012) 211 Cal.App.4th 1209, 1233.

In Kern County, oil and gas activities have existed continuously for more than a century. Ignoring these ongoing activities in the baseline conditions would result in an illusory hypothetical baseline reflecting conditions which have not existed for more than one hundred years. This would render meaningless the project impact analysis and would undermine the informational value of the EIR. Courts have clearly recognized that such a baseline analysis would be misleading and should not be used. Accordingly the EIR considers the existing oil and gas activities as one component of the baseline.

E-25

Please see Global Response 8 for a discussion of the substantial evidence supporting the EIR's well projections and response 3, above, regarding environmental review for CUPs. The projected number of wells per year exceeds the maximum observed in historical data from 1985 through 2012, including the "wide fluctuations" mentioned by the commenter, and represents a reasonable worst case scenario.

E-26

The comment states that the EIR does not provide sufficient information to assess the accuracy of the baseline, and complains that certain proprietary information has not been disclosed. To clarify, the ***baseline*** was determined based on publicly available information, while the future well ***forecast*** was based in part on trends in the same publicly available historical data and in part on a survey of the oil and gas developers, as described in Global Response 8. Only the individual company responses to the survey are proprietary information.

The EIR provides substantial information on how the baseline was determined. Please refer to Global Response 6, which outlines the publicly available data which informed the selected baseline, as well as Global Response 7. The comment appears to suggest that proprietary information was used in determining the baseline. That is incorrect.

Proprietary information from the Project Applicant was used in projecting future oil and gas activity expected to be undertaken pursuant to the amended ordinance. To the extent that this comment is concerned about the use of proprietary information in the EIR, further explanation is provided here.

Global Response 8 discusses the substantial evidence supporting the EIR's well projections. As explained in the text accompanying the footnote that the commenter cites, in order to avoid violation of antitrust laws, applicants retained an independent third party to conduct a survey of their future business plans and develop consolidated projections which were provided to the County and are part of the record for this EIR. The preliminary projections were then compared by the County to historical trends from a publicly available database maintained by DOGGR to confirm that the projected well development assumptions used in the EIR would not underestimate future well drilling activity or resulting environmental impacts. The County determined that the projections were reasonable and supported by substantial evidence. It is not necessary or appropriate to require the business plans of each potential applicant in order to evaluate the environmental impacts of the Revised Amended Ordinance which applies to all oil and gas activities in the Project Area, nor given the global fluctuations affecting oil production would such a "snapshot" of applicant business plans be a reasonable basis for estimating the annual production activities regulated by the Revised Amended Ordinance.

E-27

The commenter's opinion regarding the adequacy of the EIR's analysis of hydrological impacts is noted for the record; however, the commenter misstates the CCST recommendation. CCST Recommendation 5.1 states that if the operator of an oil well using shallow hydraulic fracturing near protected groundwater resources cannot demonstrate the safety of the operation, "agencies with jurisdiction should either deny the permit, *or develop protocols for increased monitoring, operational control, reporting, and preparedness*" (emphasis added). The Kern County EIR mitigation measures, and required compliance with the legal requirements of other agencies (including DOGGR and the State Water Resources Control Board), include such protocols.

E-28

Consistent with the CCST recommendations, MM 4.9-5 prohibits disposal of produced water into any surface disposal facility unless the Central Valley Regional Water Quality Control Board has issued or waived waste discharge requirements, and provides that WST fluids and produced fluids from wells that have been stimulated cannot be disposed of in surface ponds or pits as required by the SB 4 regulations. Please see Global Response Water-1 for a discussion of the Central Valley Regional Water Quality Control Board's work plan for addressing compliance issues regarding percolation ponds.

E-29

Please see Global Responses Air-3, Air-5, Air-6, Air-10, and Noise-1 for a discussion of the science-based setbacks identified in the FEIR.

E-30

The commenter suggests that the County's interpretation of 14 Cal. Code Regs. section 1786 (not Pub. Res. Code section 1786 as cited by the comment) is ambiguous. Mitigation Measure 4.9-5 unambiguously provides: "As required by the SB 4 regulations, well stimulation treatment fluids

and produced fluids from wells that have been stimulated cannot be stored, discharged or disposed into surface ponds or pits."

E-31

The Final EIR includes new Mitigation Measure 4.8-16 requiring the submittal of specified information (safety data sheets, toxicological reports or aquatic bioassays) before a WST fluid may be used. This mitigation measures is intended to address the concern that chemicals used in WST are not fully known or understood.

E-32

The comment suggests that if produced water from a well subjected to WST is recycled for enhanced oil recovery (EOR) in a second well, the water could contain WST chemicals that would be injected a second time during EOR, which then could come back up in the produced water from the second well. The comment further speculates that this process renders produced water from the second well "equally dangerous" and requires it to be subject to the same disposal restrictions as produced water from the first well. This speculation is unsupported by any scientific evidence. The minute quantities of chemicals in WST fluid would be greatly diluted by going through injection and extraction *twice*, in the WST well and then in the EOR well. Moreover, the Final EIR includes new Mitigation Measure 4.8-16 which prohibits the use of WST chemicals unless information relevant to health risks has been provided to the County.

E-33

Mitigation Measure 4.9-3 requires that all drilling operations must either use a closed loop system to avoid discharges of drilling muds and fluids, or obtain coverage under and comply with the requirements of applicable State Water Resources Control Board or Central Valley Regional Water Quality Control Board orders or permits. Any surface ponds or sumps must be cleared of fluids and muds in accordance with those orders or permits, and must also comply with DOGGR regulations. The commenter provides no evidence that it is unsafe to utilize sumps for non-WST disposal in compliance with these requirements, which include requirements developed and administered by the State's expert water quality and oil production agencies that are statutorily responsible for protecting public health and water resources.

E-34

Please see Global Responses Water-1 and Water-8 for a discussion of produced water containing stimulation fluids and produced water re-use for agricultural and other purposes. MM 4.9-5 prohibits disposal of produced water into any surface disposal facility unless the Central Valley Regional Water Quality Control Board has issued or waived waste discharge requirements, and provides that WST fluids and produced fluids from wells that have been stimulated cannot be disposed of in surface ponds or pits as required by the SB 4 regulations

E-35

The commenter's opinion regarding the adequacy of the County's responses to comments is noted for the record. The Final EIR contains responses to the commenter's September 11, 2015 comments.

E-36

The commenter cites to the CCST Report's conclusion regarding groundwater impacts from hydraulic fracturing chemicals due to potential leakage pathways from existing wells. Please see Global Response 12 regarding the EIR's consistency with the CCST Report recommendations. As described in Global Response 12, the CCST report acknowledges that the SB 4 regulations which went into effect in July 2015 do address concerns about existing wells in the vicinity of well stimulation operations. MM 4.9-1 requires compliance with DOGGR requirements, and was revised in the Final EIR to include requirements to comply with DOGGR measures to safeguard protected groundwater with appropriate casing, seal and related down-hole technical specifications. .

E-37

The operation of injection wells under the UIC program and the ongoing steps being taken by DOGGR and the State Water Resources Control Board (SWRCB) under the compliance schedule set by the U.S. Environmental Protection Agency are extensively discussed in the Draft EIR and in Global Response Water-2. However, as described in the Draft EIR and confirmed by the SWRCB's comments: "No chemical contaminants related to underground injection has been detected in the water supply wells tested thus far by the CVRWQCB" (comment 0083-24).

E-38

Cyclic steaming operations in shallow diatomite formations are not regulated in the same manner as underground injection practices involving sustained liquid injection. The comment correctly cites 14 Cal. Code Regs. § 1724.8 as setting forth the requirements currently applicable to cyclic steaming operations. However, these are limited to: (a) written notification to DOGGR of the operator's intention to conduct cyclic steam injection operations on a specific lease, in a specific reservoir, or in a particular well; and (b) written notification to all offset operators of the proposed project. None of the project data or substantive requirements that apply to other types of underground injection activities, as specified in 14 Cal. Code Regs. §§ 1724.7 and 1724.10, are applicable to cyclic steam (steam soak) projects, whether conducted above or below the fracture pressure. The County's statement that "[cyclic steam] operations are not regulated under the UIC program" referred to the fact that cyclic steam operations are subject only to certain notification requirements, and are not subject to any of the technical or data requirements applicable to other types of underground injection operations.

The comment stating that "there are no circumstances in which injection can exceed fracture pressure" is incorrect. 14 Cal. Code Regs. section 1724.10(i) states that "[t]o determine the maximum allowable surface injection pressure, a step-rate test shall be conducted prior to sustained liquid injection. . . . Maximum allowable surface injection pressure shall be less than the fracture pressure." The restriction on injection above the fracture pressure applies only to operations involving sustained liquid injection. Cyclic steaming involves only the injection of

steam over short periods of time, alternating with periods of production from the same wellbore. DOGGR has explained to the Legislature that "permitting cyclic steam in diatomite is consistent with the Division's statutory mandate to supervise oil and gas operations so as to allow operators to use methods and practices known to be suitable for recovery of oil and gas." Letter from Dr. Steven Bohlen, DOGGR Oil and Gas Supervisor, to Sen. Pavley re: UIC Regulations and Injection Pressures (Mar. 23, 2015) at 2. While the commenter cites a "Background Information" document prepared for a March 10, 2015 legislative hearing, which suggested that "DOGGR has acknowledged" that cyclic steam operations occurred "in violation of [state] regulations," DOGGR Supervisor Steven Bohlen disagreed with that characterization in his letter, which was written following that hearing and in response to a request from Senator Pavley. Dr. Bohlen's letter described the legal basis for DOGGR's practice of allowing cyclic steaming above the fracture pressure and stressed the importance of this production technique in California.

As noted in the County's prior responses to comments, DOGGR is developing expanded regulations for these types of wells and has solicited stakeholder input on the issue of allowable facture pressure in cyclic steaming operations, with an emphasis on protection of surface integrity (avoidance of surface expressions), public safety and the environment. DOGGR has not determined that all shallow thermal diatomite extraction operations must be conducted below the fracture gradient and has publicly acknowledged that many shallow diatomite resources would be inaccessible if steam could not be applied at pressures which exceed the fracture pressure of the low permeability rock. DOGGR has also found that because "most of the cyclic steam wells inject steam for a limited duration and volume into 'zones laden with hydrocarbons' the wells are 'very unlikely' to pose a threat to water supply wells." FEIR, p. 4.9-73. The County has no authority to regulate the downhole aspects of oil and gas activities and must defer to DOGGR on the issue of fracture pressure in shallow thermal diatomite extraction operations.

E - 39

The comment summarizes commenter's opinion regarding the analysis in the Final EIR and is noted. Responses to commenter's specific comments regarding the Final EIR analysis are provided below.

E - 40

The Draft EIR contains a discrepancy in the way that Category 3 species are described in the text on page 4.4-32 and the way the category is used in Tables 4.4-26 and 4.4-36 in the impact analysis. The following text edits on page 4.4-32 of the Draft EIR, regarding the definition of Category 3 Species, are incorporated into the Final EIR:

> Category 3 species were identified during the literature review or by local experts as **either: 1) not having a federal or state listing status,** potentially occurring in the vicinity of the Project Area, and for which suitable habitat is present**; or 2) having a federal or state listing status, no potential to occur in the Project Area, or for which suitable habitat is not present.** As discussed below (see Tables 4.4-26 and 4.4-36), Category 3 species **that have no federal or state listing status** may ~~also~~ be present in the Project Area. Category 3 plant and

wildlife species were not further analyzed in the EIR because they **either** lack official status with the State of California or a federally threatened or endangered species status (e.g., a California Rare Plant Rank [CRPR] Rank 4 species) **or they have no potential to occur in the Project Area**. A total of 53 plants and 24 wildlife species were included in Category 3 and not further analyzed in this EIR (see Tables 4.4-26 and 4.4-36 and Impact 4.4-1).

The potential effects of the Project on wildlife corridors and movement are discussed on pages 4.4-131 to 4.4-135 of the Draft EIR and further in response to comment nos. 45-95 – 97. As explained in those responses, various studies have been conducted in the Project area over the years which show that oil & gas field development in Kern County does not displace wildlife or interfere substantially with wildlife movement in the same manner as other development activities such as agricultural or urban development. Existing regional conservation documents such as the San Joaquin Valley (SJV) Recovery Plan acknowledge that oil & gas production retains more habitat value for special-status species of the southern San Joaquin Valley compared to agricultural lands (USFWS, 1998). Initial oil & gas field development in natural lands affects small patches of land (e.g., well locations) and results in some linear disturbance (e.g., access roads and pipelines), but the ability of wildlife to utilize adjacent habitat and traverse active oil & gas field areas is less impeded than it is for more intensive development types such as agriculture and urban lands. Response to comment nos. 45-95 – 97, as well as Global Response Bio-1, further explain why the mitigation program proposed in the Final EIR is sufficient for this and other impacts to biological resources.

E - 41

The comment states that the Final EIR does not disclose the findings of numerous studies, but does not provide any specific examples of relevant studies that were not addressed as the only study referenced in this comment is *Ecosystem Analysis of Oil Fields in Western Kern County* (Fiehler and Cypher, 2011). With respect to *Ecosystem Analysis of Oil Fields in Western Kern County*, as stated on page 045-95 of the Final EIR, the County's experts believe that the overall results of that study indicate that ecological communities, particularly species assemblages, may remain relatively intact up to "medium" oil field development levels, which range from 15% to 70% of the area disturbed, based on comparison with control sites (Fiehler and Cypher, 2011). The Final EIR acknowledges that, based on the referenced study, biological communities appear to be substantially altered at high levels of development, where 70% or more of habitat is disturbed. However, the *Ecosystem Analysis of Oil Fields in Western Kern County* study found that species such as Le Conte's Thrasher, San Joaquin antelope squirrel, and short-nosed kangaroo rat were present on all but the most disturbed study plots, and at high levels of oil/gas field development (i.e., greater than 70% disturbance). The County disagrees with the comment's assertion that the referenced study concludes that underlying ecological processes, such as a decrease in survival or reproductive rates, may be significantly affected; rather, the study suggests that further study of such effects may be warranted. In this regard, the Final EIR uses the best science available. See also Responses to Comment Nos. 45-95 – 97, 45-116.

E - 42

The comment cites to the CCST report for the assertion that impacts related to well stimulation treatment activities, are distinct from impacts from oil and gas extraction activities generally. For a discussion of this EIR's consideration of the CCST report, see Global Response 12 – CCST: General and Global Response 13 – CCST: Well Stimulation Treatment. The Final EIR has also added mitigation measure 4.8-16, which requires disclosure of well stimulation fluids to be used pursuant to the Project.

The comment also cites to Latta et al. (2015), though this reference does not appear to have been attached the comment letter. The County presumes the commenter refers to the following article:

Latta, S. C., L. C. Marhsall, M. W. Frantz, and J. D. Toms, 2015. Evidence from two shale regions that a riparian songbird accumulates metals associated with hydraulic fracturing. Ecosphere 6(9):144. http://dx.doi.org/10.1890/ES14-00406.1

This study and the comment assume that impacts from well stimulation treatment activities in other parts of the United States are similar to impacts in Kern County, In Kern County, oil and gas activities have existed for more than 100 years, and well stimulation treatments have been part of that activity for decades. See Global Response 13 – CCST: Well Stimulation Treatment. Thus, impacts from well stimulation cannot be separated from those from oil and gas development. Within Kern County, the impacts from well stimulation are categorically similar to traditional oil/gas development techniques. Impacts associated with the introduction of hydraulic fracking chemicals to the environment are similar to impacts associated with spills or leaks during oil/gas well development. (See DEIR, pp. 4.8-71 to 4.8-94 and Mitigation Measures 4.8-1 to 4.8-14.) Further, as stated in the Final EIR, mitigation measures to reduce noise effects on sensitive receptors will also benefit species. (Response 45-102.) Avoidance and minimization measures addressing spills, leaks, and noise are provided in the EIR. (Mitigation Measures 4.8-1 to 4.8-14 and 4.12-1 and 4.12-2.) The Final EIR also includes a new MM 4.8-16 to require toxity information for WST fluids.

With respect to the potential introduction of hydraulic fracturing chemicals beyond spills and leaks, the Latta et al. study, which is the basis for the respondent's claims, does not lead to the conclusion that similar phenomenon could be found within Kern County. The Latta et al. study draws a correlation between the occurrence of new hydraulic fracking operations and an increase of barium and strontium in song bird feathers over a smaller sample size evaluated 11 to 13 years prior. The particular species investigated, Louisiana waterthrush (*Parkesia motacillla*), feed largely on benthic macroinvertebrates. Benthic macroinvertebrates are larger bugs which live in the bottoms of freshwater streams. The authors also describe potential pathways of barium and strontium through hydraulic connectivity with freshwater streams and surface waters. The study region is located in West Virginia, Pennsylvania, and Arkansas, which are areas prevalent with perennial freshwater streams. Perennial freshwater water bodies are not common within Kern County and are even more rare in existing oil/gas production areas in Kern County. The ground water table is many times deeper than those found in the Latta et al. study region. Thus, the Latta el al. study does not support commenter's assertion that well stimulation poses a separate and additional threat of impacts beyond those normally associated with oil and gas development in Kern County.

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The Draft EIR includes analysis of the risks associated with the routine transport, storage and use hazardous materials for both construction and operation of oil and gas wells in Kern County, including from well stimulation treatment activities (see Draft EIR pp. 4.8-71 – 4.8-93), and includes a suite of mitigation measures designed to preclude chronic spills of oil, hydraulic fracturing fluids, produced water, and other chemicals. (See Mitigation Measures 4.8-1 to 4.8-14.) The Final EIR also added mitigation measure 4.8-16, which requires disclosure of the well stimulation fluids used for well stimulation treatment activities in Kern County. Further evaluation of this issues is not required.

Based on the analysis in the EIR, as well as the 100-plus years of oil and gas activities in Kern County, the types of "catastrophic impacts" predicted by the comment, without reference to any specific examples, are neither common nor reasonably foreseeable. The scope of environmental analysis required under CEQA is limited to foreseeable events. (CEQA Guidelines, §§ 15144 ["[w]hile foreseeing the unforeseeable is not possible, an agency must use its best efforts to find out and disclose all that it reasonably can"], 15145 ["If after thorough investigation, however, the agency finds that a particular impact is too speculative for evaluation, it may terminate further discussion of the impact"].) The scope of response to a potential catastrophic event cannot be forecast. In any event, Mitigation Measure 4.18-4 requires Applicants to remediate any contamination outside Tier 1 areas "as required by the Kern County Environmental Health Division and the appropriate implementing regulatory agency." Thus, the scope of any necessary remediation activities will dictated by the size and scope of any spill and will be overseen by qualified regulatory agencies.

E - 44

The comment states that the Final EIR's response concerning potential impacts from noise pollution on biological resources is inadequate. While some studies do indicate that there may be a long term negative effects from noise pollution on species and terrestrial ecosystems, there is little scientific consensus in the matter. There are contrary studies that indicate little or no negative effects. For example, a study conducted in 2012 found that construction noise had little or no effect on golden checked-warblers, a federally endangered species endemic to parts of Texas (Lackey et. al. 2012). Similarly, an extensive literature review conducted in 2012 for the Department for Environment, Food, and Rural Affairs (United Kingdom) found that the majority of the studies reviewed either cannot account for all the possible correlative factors associated with the disturbance that results in the noise, or that there was no negative effects from noise occurring (Radford, 2012). As discussed in the Final EIR, oil and gas activities have been ongoing in Kern County for over 100 years and noise associated with those activities have become part of the ambient condition. Nonetheless, noise impacts were analyzed, and mitigation measures provided to reduce noise impacts overall, including any potential impacts to biological resources. (See Response 45-102, DEIR pp. 2-24, 4.12-18 to 4.12-31.)

<u>References</u>

Lackey, Melissa A., Morrison Michael L., Loman Zachary G., Collier, Bret A., and Wilkins, R. Neal. 2012. Experimental Determination of the Response of Golden-Cheeked Warblers (*Setophaga Chrysoparia*) to Road Construction Noise. Ornithological Monographs, Number 74, pages 91–100. ISBN: 978-0-943610-93-1.

Radford, Andrew. 2012. The Effects of Noise on Biodiversity (NO0235): Final Report for Defra. Produced by the School of Biological Sciences, University of Bristol, Woodland Road, Bristol, UK for the Department for Environment, Food, and Rural Affairs.

E - 45

The Final EIR does not "fail to address" impacts to biological resources in the analysis of water quality and quantity. As stated in response to comment 45-103, the County fully discloses that available groundwater supplies are a significant issue for the Project Area and results in a significant and unavoidable impact.

Also, as stated in response to comment 45-103, the Sustainable Groundwater Management Act (SGMA) will play a significant role in future groundwater supply estimates. The County is required to participate in the groundwater sustainability effort underway, and the hydrologic basin has now been designated by the Department of Water Resources as being in critical overdraft. The SGMA will require that agricultural, municipal, and industrial activities account for current and future uses of water and create sustainable plans for managing the resource. Pursuant to California Water Code section 10933(b)(8), this effort will also take into account adverse impacts on local habitat and local streamflows. While response to comment 45-103 states that oil and gas activity uses very little groundwater compared to other uses, significant impacts to groundwater supply are identified and mitigation measures are proposed for the project in the Draft EIR. (DEIR, pp. 4.9-148 to 4.9-155, 4.17-49 to 4.17-60.) As discussed in response to comment 45-103, these measures and the Water Code provision will provide a mechanism to consider impacts to habitat and species as part of any groundwater planning exercise.

E - 46

The comment makes general assertions about the adequacy of mitigation measures, but provides no specific comments. No response is required. See Global Response 16 – Mitigation Measures.

E - 47

The language cited by commenter must be understood in the context of the larger mitigation framework, most notably Mitigation Measure 4.4-16, which requires compensatory mitigation for the actual acreage of ground disturbance, as documented during the site plan review and completion process. Mitigation Measure 4.4-15(l), as a complementary measure, requires project activities to "use previously disturbed areas to the maximum extent feasible to minimize the amount of new disturbance." Together, these measures ensure that new habitat disturbance is minimized, and to the extent new disturbance occurs, is mitigated. Other mitigation includes pre-construction surveys and protective buffers based on specific species' needs (see Mitigation

Measures 4.4-1 through 4.4-12, 4.4-17 through 4.4-18.) Commenter's concerns regarding habitat for special-status species have been adequately addressed by the FEIR Mitigation Measures outlined above.

To the extent commenter suggests that the Project should prohibit drilling in areas of identified habitat for special status species, such a restriction would be infeasible for the same reasons outlined in Global Response ALT-1, as relates to the "Basis for Elimination of the Drilling Ban on Agriculturally Productive Land Alternative." For example, the owners of mineral rights underlying habitat lands would be forced to access such minerals, if at all, from adjacent lands that are not subject to the ban. This would entail the use of directional and horizontal drilling techniques, which may not be technologically or economically feasible. This could result in longer drilling periods and increased levels of construction-related emissions, or potentially a de facto destruction of all economically beneficial or productive use of such mineral interests, thus exposing the County to economic harm and unreasonable legal liability. (See GR ALT-1.)

E - 48

This comment does not state a specific concern related to the adequacy of the Final EIR and therefore a detailed response is not required. The County notes that there are exceptions to the take prohibition for Fully Protected Species under the Fish and Game Code, contrary to the commenter's assertions. (Fish and G. Code, §§ 2081.6, 2081.7, subd. (a), 2835.) Nonetheless, the Final EIR does not promote or authorize the incidental take of Fully Protected Species under the Fish and Game Code, and specifically requires an Applicant to obtain any necessary permit from the appropriate regulatory agency (see mitigation measures 4.4-2).

E - 49

The comment states commenter's opinion that the Final EIR does not address commenter's concerns, but identifies no specific deficiency in the Final EIR. The Final EIR provides the County's good faith, reasoned analysis provided in response to comments. Nothing more is required by CEQA. (CEQA Guidelines, § 15088, subd. (c).)

E - 50

The comment states generally that the mitigation measures addressing light pollution are inadequate, but points to no specific deficiency. Please see Final EIR MM 4.4-1, MM 4.4-3, MM 4.4-5, MM 4.4-6, MM 4.4-7, MM 4.4-10, MM 4.4-15, and the County's "Dark Skies Ordinance" (Chapter 19.81 of the revised zoning ordinance), all of which provide measures for minimizing light pollution that may impact biological resources. As noted by Response 45-120, absent the Project, many Oil and Gas activities would be exempt from the Dark Skies Ordinance, and thus, the Project eliminates more light pollution than would otherwise occur. The suggestion that additional measures should require activities to be scheduled outside of important periods for special-status species has already been addressed in the numerous measures designed to lessen impacts to special-status species, including measures that require preconstruction surveys and consultation and concurrence with CDFW and USFWS (MM 4.4-1 to MM 4.4-20). Nothing

further is required. (See *Santa Clarita Organization for Planning the Environment v. City of Santa Clarita* (2011) 197 Cal.App.4th 1042, 1055-1056.)

E - 51

The comment again asserts that the mitigation measures provided in the Final EIR are inadequate, but provides no specific examples of the alleged deficiencies. As described in Global Response BIO – 1, the avoidance and minimization requirements in the mitigation measures are modelled after measures typically required by the USFWS or CDFW to reduce potential effects to ESA and CESA-listed species With their incorporation as conditions of the Project, these measures would be applied to all oil and gas activities under the purview of the County, including entities that do not typically undertake Section 7 or Section 10 consultation for ESA-listed species or Section 2081 for CESA-listed species. Where complete avoidance is not possible, Mitigation Measures 4.4-2, 4.4-11 and 4.4-12 prohibit take of listed species such as San Joaquin kit fox without authorization from the USFWS or CDFW.

The Draft EIR recognized that future oil and gas extraction activities could contribute to a significant cumulative impact on Project area biological resources because the County does not regulate all lands within its boundaries (see Draft EIR at pp. 4.4-229 and 4.4-230). Given the scope of the Project, the EIR's cumulative analysis of impacts to biological resources is adequate under a "practical and reasonable standard." (See *Preserve Wild Santee v. City of Santee* (2012) 210 Cal.App.4th 260, 276-279 [upholding a plan/project cumulative analysis methodology for biological resources].)

E-52

Please see Global Responses 1, 16, and 19 for a discussion of mitigation measures and their enforcement; Global Response Alt-2 comparing the ministerial permitting process to the No Project and CUP Alternatives; and Global Response 2 for a discussion of the project-level analysis in the EIR.

E-53

Please see Global Response 2 for a discussion of the project-level analysis in the EIR and Global Response 3 regarding the shelf life of the EIR.

E-54

Please see Global Response 22 on the propriety of relying on existing laws and regulations in general, and Global Response Water-2, p. 7-304 (“EIR Baseline and Reliance on UIC Program Regulations”) regarding the underground injection control program in particular.

E-55

Please see Global Response Water-2 regarding the aquifer exemptions and underground injection control program.

E-56

Please see Global Response Air-12 for a discussion of lifecycle emissions.

E-57

As stated in the responses to comments, the County did not receive the commenter's package of supporting documents until after the September 11, 2015 comment deadline. The commenter's statement regarding the list of references is noted for the record.

E-58

The commenter's opinion regarding the adequacy of the EIR is noted for the record.

Center for Biological Diversity Attachment List Response

1	This is an article from the Los Angeles Times describing the level of benzene found in produced water from wells which had been subject to well stimulation treatments. The commenter cites this article for the proposition that benzene and other chemicals are found in produced water, as stated in the commenter's September 11, 2015 letter. This article was cited in the commenter's September 11, 2015 letter, but not provided to the agency. Documents that are simply named in a comment letter, or named along with a reference to a general website, have not been made readily available to the public agency and, therefore, are not submitted pursuant to Cal. Pub. Res. Code § 21167.6, subd. (e)(7); *Consolidated Irr. Dist. v. Super. Ct.* (2012) 205 Cal. App. 4th, 697. However, as explained in its response to comment, the County did review the referenced document and considered it in formulating its response. Please see response to comment 0045-48.
2	This is an article from the Los Angeles Times describing the results of tests run on treated produced water used in irrigation. This document appears to be one of the sources listed in footnote 30 of the commenter's September 11, 2015 letter, cited for the proposition that produced water contains benzene and other chemicals. The article notes that "small amounts" of acetone, created by the breakdown of naturally occurring hydrocarbons, were present as well as "trace amounts" of benzene and hydrocarbons "at concentrations considered safe for drinking and well below the maximum level set in the water recycling program's permit." As this article indicates, chemicals found in treated recycled produced water are within permissible limits. The article also goes on to point out, "Even if irrigation water contains toxic substances, experts say that microorganisms in soil can consume some impurities and plants have the ability to process certain contaminants."

3	This document is a press release issued by the commenter on February 11, 2015. This document appears to be one of the sources listed in footnote 30 of the commenter's September 11, 2015 letter, cited for the proposition that produced water contains benzene and other chemicals. The commenter's press release was cited in the commenter's September 11, 2015 letter, but not provided to the agency. Documents that are simply named in a comment letter, or named along with a reference to a general website, have not been made readily available to the public agency and, therefore, are not submitted pursuant to Cal. Pub. Res. Code § 21167.6, subd. (e)(7); *Consolidated Irr. Dist. v. Super. Ct.* (2012) 205 Cal. App. 4th, 697. However, as explained in its response to comment, the County did review the referenced document and considered it in formulating its response. Please see response to comment 0045-48.
4	This document is a letter from the Division of Oil, Gas & Geothermal Resources ("DOGGR") to Region IX of the U.S. EPA dated February 6, 2015. Pease see Global Response Water-2 for a discussion of Exempt Aquifers and Underground Injection, including DOGGR's correspondence with USEPA.
5	This document is a report prepared by DOGGR in 1993 concerning benzene in produced water from Kern County oil fields containing fresh water. This document was cited in the commenter's September 11, 2015 letter for the proposition that some samples of produced water contained concentrations of benzene as high as 18.0 mg/L. This report was cited in the commenter's September 11, 2015 letter, but not provided to the agency. Documents that are simply named in a comment letter, or named along with a reference to a general website, have not been made readily available to the public agency and, therefore, are not submitted pursuant to Cal. Pub. Res. Code § 21167.6, subd. (e)(7); *Consolidated Irr. Dist. v. Super. Ct.* (2012) 205 Cal. App. 4th, 697. However, as explained in its response to comment, the County did review the referenced document and considered it in formulating its response. Please see response to comment 0045-48. Additionally, the study was conducted on the basis of data collected over 23 years ago.
6	This document is a database of surface expressions occurring in Kern County during 2011 as produced by DOGGR. The commenter cites a single incident in the database, a fatality resulting from a sink hole in Kern County which occurred on June 21, 2011, for the proposition that steam injection above the fracture pressure is dangerous. The fatality noted by the commenter is discussed in the DEIR at 4.8-18–19.

7	This document is a transcript of a video recording of a joint hearing of the Senate Natural Resources and Water Committee and the Senate Environmental Quality Committee on March 10, 2015. The commenter cites this document for the proposition that evidence exists regarding injection activity above the fracture pressure. Please see the responses to DOGGR's comment letter, comments 0002-58, and to the commenter's October 5, 2015 letter, comment 0072-38, for a discussion of relevant aspects of cyclic steaming injection.
8	This document is a report of background information for the March 10, 2015 joint hearing of the Senate Natural Resources and Water Committee and the Senate Environmental Quality Committee. The commenter cites a statement within this document asserting that cyclic steam injection exceeding the fracture gradient of the formation is a violation of state law. Please see the response to the commenter's October 5, 2015 letter, comment 0072-38, for a discussion of relevant aspects of cyclic steaming injection and DOGGR's response to this statement.
9	This document is a transcript of a video recording of a State Water Resources Control Board Workshop held on April 8, 2015. The commenter cites this document for the proposition that "[st]imulation fluid is impossible to separate from produced water in the development process." The portion of the transcript referenced by the commenter contains statements made by Preston Jordan from the Lawrence Berkeley National Laboratory. The commenter has mischaracterized the statements of Mr. Jordan. Mr. Jordan noted that produced water consists of commingled well stimulation fluid returns and formation water returns and that they could not be distinguished. Mr. Jordan did not discuss whether well stimulation fluid could be separated from produced water. This document, therefore, does not support the commenter's statement.
10	This document is a presentation given on November 12, 2014 to a Working Group regarding an Update on Implementation Rule 1148.2. Commenter notes that this presentation was made by the South Coast Air Quality Management District. The commenter cites this document for the proposition that air emissions on site contain high concentrations of air toxics such as benzene and "BTEX" chemicals. Please see response to comment 0072-17 regarding this presentation.
11	This document is a report to congressional requesters prepared by the Government Accountability Office in June 2014 regarding drinking water and the underground injection program. The commenter cites this

	document for the proposition that DOGGR has admitted that injection pressures may exceed the fracture gradient of the formation. Please see the responses to DOGGR's comment letter, comment 0002-58, and to the commenter's October 5, 2015 letter, comment 0072-38, for a discussion of relevant aspects of cyclic steaming injection.

F Western States Petroleum Association

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Suzanne Noble
Vice President, Production Regions and Sacramento Affairs

October 5, 2015

Chairman David Couch
Kern County Board of Supervisors
2700 M Street
Bakersfield, CA 93301

Members of the Planning Commission
2700 M Street
Bakersfield, CA 93301

Re: Revisions to Kern County Zoning Ordinance, Oil and Gas Local Permitting – Conformity Review in Situations of Split Estate (Surface Owner Signoff and CUP)

Dear Chairman Couch and Members of the Planning Commission:

On October 5, 2015, the Planning Commission will consider proposed Amended Ordinance Chapter 19.98, establishing a new local permitting process, performance standards and mitigation measures for Oil and Gas Development. The proposed Amended Ordinance reflects nearly three years of intensive effort in planning and environmental review by the County, its expert consultants, and others. For decades, no permit has been required for oil development in most of the territory under the County's zoning jurisdiction. This will change under the amended ordinance. Following adoption, oil developers will be required to submit site plans for County conformity review, demonstrate compliance with scores of new mitigation measures, pay administrative and mitigation fees, and obtain ministerial permits prior to commencing drilling of new wells or initiating other related activities. The added burdens on the oil developers will be substantial. However, the members of the oil and gas industry associations who asked the County Board of Supervisors to initiate this process are willing to accept the added costs as part of a permitting framework that provides greater certainty regarding the process and conditions under which oil development will be conducted in the future.

On October 1, 2015, the law firm of Shute Mihaly and Weinberger submitted a letter on behalf of Pacific Ag Management, Inc. insisting on changes to the proposed Amended Ordinance. Specifically, Shute Mihaly states that, to comply with CEQA, the ordinance must include an absolute requirement for surface owner signoff in situations of split estate. In the alternative, Shute Mihaly states that the ordinance should require the mineral owner to obtain a conditional use permit if it does not have surface owner sign-off. These changes should be rejected. They would be contrary to California law,

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and would increase delay and cost without any added benefit in environmental protection. We urge the Planning Commission to reject the changes in the Shute Mihaly letter, and to recommend to the Board of Supervisors that they adopt the staff proposal.

WSPA is a non-profit trade association representing companies that explore for, produce, refine, transport and market petroleum, petroleum products, natural gas and other energy supplies in California and four other western states. WSPA is one of the three oil and gas industry associations, along with the California Independent Petroleum Association and the Independent Oil Producers Agency, whose request to the Board of Supervisors in 2013 initiated the ordinance amendment process. With decades of experience developing oil and gas resources in Kern County, WSPA members have significant knowledge and expertise to offer as the County decision-makers review the EIR and approved an amended oil and gas ordinance.

The Staff Proposal for Site Plan Review Without Surface Owner Signoff Is Burdensome And Costly, But Acceptable in the Overall Context of the Ordinance.

As described in the EIR, in some cases the mineral rights and surface rights to a property are held by different private parties. This situation is referred to as "split estate". Under California law, the mineral estate is dominant, meaning that the owner of the mineral rights has an implied right to reasonable use of the surface in order to access the minerals.[1] As the dominant estate, the mineral rights owner does not have to negotiate a surface use agreement with the surface owner or otherwise compensate landowners for use of the land; however, most of our member oil and gas developers do so. Our members currently conduct such negotiations and reach agreements with surface owners in the vast majority of cases of development on split estate ***without any intervention on the part of the government***.

The EIR notes that there are few if any reported cases of litigated disputes between surface owners and mineral owners regarding reasonable use of the surface. (EIR p. 7-114.) In the experience of our members, this lack of litigation is a direct result of the willingness of the mineral owners to communicate and cooperate with the surface owner, and reach agreement on the best means of developing the mineral resources with the least impact on the farmer or other surface owner, even when not required by law. Many of our members have relationships with the surface owners going back many years. Discussions with surface owners may result in adjustments to the location of a well (e.g., to avoid fragmentation and preserve the maximum contiguous area for farming, or reduce the length of new access road required), adjustments to the timing of drilling a well (e.g., to allow a farmer to harvest a crop before the well pad is prepared), compensation for removal of crops, agreement regarding use of access roads, and other accommodations. Often, the starting point for discussions regarding compensation is the United States Department of Agriculture, National Agricultural Statistics Service. For a two-acre well pad, application of these publicly available crop values can result in compensation to a surface owner of tens of thousands of dollars or – in the case of orchards –

[1] Shute Mihaly accuses the County of suggesting that mineral rights owners have an unassailable right to enter the surface for oil and gas development. This is not accurate. The EIR includes an extensive, thoughtful discussion of the split estate issue that describes how the mineral rights owner is entitled to ***reasonable*** access and use, and that the surface owner may challenge that use in court. See, e.g., pages 7-111 to 7-114. See also Staff Report at pages 18-21.

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even hundreds of thousands of dollars. Discussions between surface and mineral owners may result in formal, written surface access agreements or – in light of the often longstanding relations – accommodations may be reached based on informal, unwritten agreement.

California Civil Code Section 848 currently requires the mineral owner to provide no less than 30 days' notice to the surface owner before entering the property for activities that disrupt the surface. (Shorter notice periods apply to entry that does not disturb the surface.) As proposed by staff, where there surface owner has not signed the site plan application, additional time periods would apply, resulting in a total process of no less than 120 days. This four month period would include additional notices, County staff communications with the surface owner, additional cycles of staff review of the site plan, and a requirement that the mineral owner fund a code inspector during the site development phase. As described by the EIR, the purpose of the extended process and added requirements is to "create incentives for the mineral estate holder to notify and reasonably accommodate the concerns of the surface estate holders", and to "provide surface owners with significantly enhanced ... opportunities to ... negotiate the terms of mineral estate operations". (EIR, p. 7-113 and 7-114; see also Staff Report, p. 23 (pathways will "incentivize the mineral owner/operator to contact the surface owner and negotiate issues").) Thus, the purpose of the enhanced process and oversight of the conformity review process without surface owner signoff is explicitly to give the surface owner greater leverage in negotiations with the mineral rights holder. As such, in addition to the burdens and added direct costs of this conformity review pathway, there is a distinct likelihood of additional, potentially costly, accommodation or compensation to a holdout surface owner.

Shute Mihaly characterizes the additional steps in the process as a "minor burden". (Shute Mihaly letter, p. 4.) But in fact the proposed Amended Ordinance quadruples the delay before the mineral owner can access his mineral resources compared to the 30 days provided in state law. This creates substantial challenges and burdens for an oil and gas developer managing capital budgets, attempting to schedule drilling rigs and crews for multiple sites, and scheduling around the seasonal restrictions imposed by mitigation measures designed to protect sensitive biological resources. Just as a four month delay can cause a farmer to miss a critical seasonal deadline and so lose the opportunity for the entire crop cycle, so too a four month delay in receipt of the site plan conformity approval may cascade into much longer delay for the mineral owner. These delays are not trivial.

Shute Mihaly also dismisses the added enforcement oversight as involving only "minor additional costs" (Shute Mihaly letter, p. 4), but these costs would be substantial. In addition to the cost of enhanced application requirements and additional rounds of County staff review, Section 19.98.040 will require the applicant to reimburse the County for the cost of a County building inspector to be present during construction activities to ensure full and complete compliance with the approved site plan. (EIR p. 7-122; Ordinance § 19.98.140.)

The surface owner signoff requirement in the proposed Amended Ordinance is unprecedented. In its current form, the conformity review process without surface owner sign-off is precariously close to conflicting with state law regarding the rights of mineral interest owners to reasonable use of the surface. In any other circumstance, it is very likely that our members would oppose the surface owner signoff provisions. As proposed by staff, however, the permitting pathway for conformity review

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without surface owner signoff is part of a comprehensive program that acknowledges the property rights of the mineral estate holder to develop the mineral resources. The staff proposal emphasizes communication (between surface and mineral interest owners), education (of the surface owner), and enforcement to ensure compliance with mitigation measures and other standards. It carefully avoids placing the County in the position of favoring one property interest over another. Oil industry members are willing to accept this package as a compromise with agricultural stakeholder who have expressed concerns.

Additional Requirements Are Not Required By CEQA

Chapter 4.2 of the EIR thoroughly analyzes the potential impacts to agricultural resources as a result of the Project. Where impacts are found to be potentially significant, mitigation measures have been identified to reduce the impacts to less than significance. Including the agricultural mitigation measures and other measures, 49 of the 88 mitigation measures in the EIR will directly benefit or protect surface owners, including owners of agricultural lands with split estates. (EIR p. 7-115 to 7-121.) Accordingly, no further mitigation is required to address the impacts of the Project on agricultural resources.

Shute Mihaly notes that the EIR finds cumulative impacts to be significant, even after incorporation of all feasible mitigation. However, a review of the EIR shows that only conversion of farmland to non-farm use is the only cumulative impact found to be significant and unavoidable after mitigation. (See EIR, p. 4.2-24 to 4.2-25.) The Shute Mihaly proposal for an absolute surface owner signoff requirement or a CUP would do nothing to change this cumulative impact, and the October 1 letter does not even attempt to offer a scenario under which it might. Mitigation Measure 4.2-1 will require 1:1 mitigation for loss of Farmland, by means of land dedications, agricultural conservation easements, or other means. In contrast to this measure, which provides public benefit, it appears that the sole purpose of the process advocated by Shute Mihaly is to provide a private benefit to the surface owner. Such private exactions would do nothing to diminish the cumulative impact relating to loss of Farmland.

Shute Mihaly points to the staff report from the July 27, 2015 workshop as justifying the need for the absolute surface owner sign-off agreement. That staff report summarizes assertions by some surface owners that the mineral owner had not contacted them regarding accommodations, resulting in the creation of new access roads, productive crop removal, conflicts over placement of ancillary facilities, and disputes about monetary compensation. (EIR. p. 7-114.) The proposed Amended Ordinance together with the mitigation measures already contained in the EIR address every one of these complaints with the exception of disputes about monetary compensation. The proposed Amended Ordinance will ensure 100% compliance with the notice requirements, because the conformity review process will not commence without either a surface owner signoff or repeated notice to and other contact with the surface owner by the applicant and the County staff. Mitigation Measure 4.2-2 h. emphasizes use of existing facilities and selection of alignments to the greatest extent feasible to minimize surface disturbance.

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Despite the repeated claims in the Shute Mihaly letter that an absolute surface owner signoff is required as additional CEQA mitigation, the letter never offers a single explanation for how it might achieve this outcome. The letter claims that it will give the surface owner a "meaningful opportunity to weigh in" (letter at p. 3), but doesn't say how it would improve over the process in the current staff proposal. The implication is that enhanced process and County Planning involvement in the staff proposal would not be "meaningful". This is a slight to the diligence and good faith of County Planning staff.

An Absolute Requirement For Surface Owner Signoff Would Create A Surface Owner Veto Over the Mineral Estate Development, Contrary to State Law.

As noted above, the conformity review without surface owner signoff is an unprecedented development that adds significant burdens to the mineral interest owner. In its current form, it provides more than ample opportunity for the surface owner and mineral owner to communicate, coordinate and negotiate. Given the more than 100 years of coexistence of oil and agriculture in Kern County, these discussions rarely if ever involve surprises. In the experience of our members, if the surface owner and mineral rights owner do not reach agreement within 120 days, they are unlikely to reach agreement.

An absolute requirement for surface owner signoff would give the surface owner an absolute veto over mineral development. A signature on the application form connotes consent to the proposed development process, and if by withholding consent the surface owner could block the processing of the site plan, then withholding consent constitutes a veto. By conferring on the surface owner the power to withhold consent, and unilaterally depriving the mineral owner of reasonable access, the Shute Mihaly signoff proposal conflicts with the California law reviewed above and in the EIR under which the mineral estate is entitled to reasonable use of the surface.

The Shute Mihaly letter offers no criteria to be included in the ordinance upon which the surface owner might withhold signature. The surface owner would not have to provide the County any reason for withholding signature, let alone environmental reasons. The surface owner would be able to withhold signature for any reason at all, or for no reason. The surface owner may simply desire more compensation for use of the surface, even though compensation is not required by law and bears no relationship to community health and welfare or environmental impacts. The County should not adopt an ordinance for the purpose of allowing one owner to profit at the expense of another.

Shute Mihaly implies that the improper veto would be cured by allowing the mineral interest owner to spend 3 to 4 years in litigation to vindicate his right to reasonable surface use. This is not acceptable because California law clearly places the responsibility of bringing such a dispute to the courts on the surface owner, not the mineral owner, and shifting this burden would be contrary to state law. Remarkably, Shute Mihaly repeatedly concedes that the mineral interest owner will prevail. It defends the burdens imposed by its proposal by stating it would only result in a temporary delay. (See, e.g., Shute Mihaly letter at p. 7, 8 ("the mineral owner would eventually receive permission to conduct some or all of the requested oil and gas development"; "the Signature Requirement would at the very

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most result in a temporary delay").) This concession makes the proposed shifting of burdens and costs to the mineral owner all the more objectionable.

An Alternative CUP Requirement Would Impose Burdens Without Benefits

As an alternative to an absolute requirement for surface owner signoff, Shute Mihaly presses for a process where the mineral owner would have to apply for and obtain a conditional use permit in the absence of surface owner signoff. A CUP is not appropriate in the case of split estates in agricultural lands. It does not fit the basic function for which the CUP has developed over the years. In addition, it would impose process and substantial delays and costs without further protection of the environment.

Ordinarily in land use planning, a CUP is required where an infrequent land use may be desirable in the community but presents special issues that cannot be resolved by restrictions of general application to all permitted uses in the area. For example, Manaster & Selmi, California Environmental Law & Land Use Practice (Matthew Bender) explains:

> Most zoning ordinances specify certain uses as of right and certain other uses allowed only by use permit for each zone. This mechanism enable localities to control uses that may be desirable, but whose ***unrestricted existence at a specific location could engender a nuisance.*** For example, certain zones allow schools, churches, service stations, liquor stores, and other uses only by use permit. Most conditionally permitted uses are such that the use could easily become ***incompatible with the surrounding uses, especially residential uses.*** Other type of conditionally permitted uses (for example, mineral extraction or drive-through restaurants) may raise specific issues such as traffic, noise or health and safety, requiring close scrutiny regarding the desirability of the location and the ***need to impose conditions on the use to protect against nuisance.*** (See Ch. 60, § 60.31, *emphasis added.*)

In keeping with this philosophy, the County has long required a CUP to drill in any residential district, and certain commercial districts, regardless whether there is a split estate. Any drilling site in these districts could be literally surrounded by sensitive receptors, raising concerns of nuisance and public safety. According to the Staff Report, this situation is exceedingly rare, having occurred twice since 1986. (Staff Report, p. 7.) Given the rare co-occurrence of these land uses and the high potential for nuisance, a CUP requirement for drilling in these districts is appropriate. There is a wide range of potential configurations outside the regular or recent experience of County staff, and the Planning Commission should examine the particular details to determine the circumstances under which drilling may be allowed at that precise location. We do not object to the continued requirement in the Amended Ordinance for a CUP in Tier 4 district. (See § 19.98.030 D defining Tier 4 Area, and § 19.98.050 A requiring a CUP for drilling in Tier 4.)

Not only would a CUP requirement be inconsistent with the general use of this tool in community planning, it would add delay, costs and other burdens without achieving better or more protective development. Oil and gas developers know first-hand that obtaining approval of a CUP can require years of agency process, including preparation of a CEQA document, staff evaluations and reports,

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hearings and appeals. In addition to the enhance cost of application materials, CEQA review also usually entails hiring a third party consultant to prepare the CEQA document. Shute Mihaly blithely proposes that all costs of the CUP process and any additional environmental review be borne by the mineral estate owner. (Letter at p. 12.) Yet Shute Mihaly minimizes the cost associated with this review by suggesting that the CEQA review for a CUP will be tiered off the Oil and Gas Ordinance EIR. This concession means that – by and large – the CUP process would not result in different mitigation than what has already been presented to the Planning Commission in this EIR. Instead, as the option for surface owners satisfied with their monetary compensation to sign off without a CUP demonstrates, Shute Mihaly's proposal is primarily focused on economics rather than the environment.

Finally, the Shute Mihaly proposal would provide no reciprocity. No CUP would be required for development of the surface by the surface owner, even though development of the surface can complicate and increase the cost of later mineral development. For example, establishment of certain sensitive receptors such as a residence with increase the setback and constrain future mineral development. This would be no less a conflict than a development proposal initiated by the mineral rights owner. Yet Shute Mihaly does not suggest that this land use conflict requires the agricultural surface owner to negotiate with the mineral rights owner, let alone obtain a CUP.

Conclusion

The existing relationships between surface owners and mineral owners are – in the vast majority of cases – cooperative and successful. We believe no further process is required, but we are willing to accept the enhanced process for conformity review without surface owner signoff as part of the comprehensive, ministerial permitting program that provides our members greater consistency and certainty in the development of their mineral resources.

On occasion, a surface owner and mineral owner do not see eye-to-eye. Judicial remedies are available to any surface owner dissatisfied with the process. It is unnecessary and unworkable, and improper under California law, to give a surface owner a veto over reasonable use of the surface for mineral development, either through an absolute signoff requirement or a CUP requirement that from a practical perspective would be tantamount to a veto.

To be blunt, the holdout landowners are looking to change the nature of the property rights they purchased. A surface owner who purchased land with the minerals already severed would have known of this situation before closing on the property because it would have been revealed in the preliminary title report for the property. Such a surface owner proceeded with the purchase at a property cost that reflected the split estate and the dominance of the mineral rights. Someone who purchased property and later severed the mineral rights had an opportunity to negotiate a sale which defined and limited future use of the surface, or to obtain a price for the mineral rights that in his/her view fairly compensated for the future use of the surface. Either way, the holdout surface owners are attempting though enhanced County process to obtain a better bargain than they did when they bought or sold their property. This is not appropriate under the law.

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The members of the oil and gas industry associations respectfully urge you to reject the Shute Mihaly proposal.

Sincerely,

Suzanne Noble

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These comments are noted for the record and will be provided for consideration to the Board of Supervisors.

G Center for Biological Diversity (October 13)



CENTER for BIOLOGICAL DIVERSITY Because life is good

October 2, 2015

Via Overnight Mail
Christopher B. Mynk, AICP
Supervising Planner
MynkC@co.kern.ca.us
Kern County Planning Department
Public Services Building
2700 M Street, Suite 100
Bakersfield, CA 93301-2370

Re: Supplemental Material on the Draft Environmental Impact Report for Revisions to the Kern County Zoning Ordinance 2015 C

Dear Mr. Mynk:

On behalf of the Center for Biological Diversity and its members, I am writing to submit the following supplemental materials related to the Draft Environmental Impact Report for Revisions to the Kern County Zoning Ordinance (the DEIR).

In the County's Response to Comments submitted by the Center for Biological Diversity, the response claims in numerous places that the Center has not supplied the scientific studies referred to in its comment letter. While we believe the studies were included in the disk sent accompanying our comments on the draft EIR (Sept. 11, 2015), in order to ensure that the County is able to review these studies, we are resending the references on the enclosed disk.

Please feel free to contact me if you have any problems accessing the studies.

Respectfully submitted,

Hollin Kretzmann

Hollin Kretzmann
Center for Biological Diversity
1212 Broadway, Suite 800
Oakland, CA 94612

Enclosure:

- CD containing studies referenced in Center for Biological Diversity September 11, 2015 comment letter, biological resources section.

1

This letter, and accompanying CD, were received by the County on October 13.

This letter does not raise any concerns regarding the adequacy of the EIR and thus does not require a detailed response. This letter encloses a CD-ROM containing multiple documents. These documents are duplicative of documents contained on a CD-ROM referenced in commenter's comment letter dated September 11, 2015 (i.e., Letter 45, as set forth in Section 7.2.4). The CD-ROM referenced in commenter's September 11 letter was recevied by the County after the DEIR comment period, and the documents were included in Volume 4 of this EIR. The CD-ROM that accompanies this Letter G also includes the following new document:

> Latta, S. C., L. C. Marhsall, M. W. Frantz, and J. D. Toms, 2015. Evidence from two shale regions that a riparian songbird accumulates metals associated with hydraulic fracturing. Ecosphere 6(9):144. http://dx.doi.org/10.1890/ES14-00406.1

The CD-ROM and the documents it contains are included in the administrative record and available for review at the Planning and Community Development Department. Please also see Response E-42, above, and EIR Volume 4.

As noted above, Commenter submitted numerous articles regarding hydraulic fracturing activities occurring in the natural gas fields in Pennsylvania. As explained in the Draft EIR, and in responses included in the Final EIR, the hydraulic fracturing activities that occur in the oil fields of Kern County are substantially different in many respects (e.g., Kern resources are much deeper, the fracturing techniques themselves differ, etc.). The County is also continuing to monitor these scientific studies, including a new study by Johns Hopkins University, identified in the following URL, that associates Pennsylvania shallow natural fracturing activities with an increased risk of premature births. http://www.jhsph.edu/news/news-releases/2015/study-fracking-industry-wells-associated-with-premature-birth.html For reasons already addressed in response to other CBD comments, this study is not representative of conditions that exist in Kern County, other expert scientists who have evaluated hydraulic fracturing in Kern County have not identified this as a potential adverse health risk, and the EIR does include both evaluations and mitigation measures addressing hydraulic fracturing activities and well stimulation fluids. This Pennsylvania study is noted for the record.

H Gustavo Aguirre

>>> "Gustavo Aguirre" <gaguirre@crpe-ej.org> 10/21/15 1:32 PM >>>
Hi Kern County Supervisors, Mick Gleason, Zack Scrivner, Mike Maggard, David Couch and Leticia Perez.

Dear, supervisors I'm sending copies of the letters that are being hand **delivered to your on 10/21/15**, I may need to send them in several emails because of size issue. The documents are named with 10/21/15 petitions for this date, we will be sending you a **total of 150 letters plus those sent previously makes a total of 900 up to 10/21/15.**

Thank you for your support

From: Gustavo Aguirre
Sent: Wednesday, October 21, 2015 1:20 PM
To: 'district5@co.kern.ca.us'; 'district1@co.kern.ca.us'; 'district2@co.kern.ca.us'; 'district3@co.kern.ca.us'; 'district4@co.kern.ca.us'
Subject: RE: Kern EIR gas and oil comment letters 10-20-15

Hi Kern County Supervisors, Mick Gleason, Zack Scrivner, Mike Maggard, David Couch and Leticia Perez.

Dear, supervisors I'm sending copies of the letters hand delivered to your on 10/20/15, I may need to send them in several emails because of size issue. The documents are named with 10/20/15 petitions for this date, we will be sending you a total of 150 letters plus those sent previously makes a total of 750 up to 10/20/15.

Thank you

From: Gustavo Aguirre
Sent: Tuesday, October 20, 2015 3:39 PM
To: 'district5@co.kern.ca.us'; 'district1@co.kern.ca.us'; 'district2@co.kern.ca.us'; 'district3@co.kern.ca.us'; 'district4@co.kern.ca.us'
Subject: RE: Kern EIR gas and oil comment letters 10-19-15

tow more documents

From: Gustavo Aguirre
Sent: Tuesday, October 20, 2015 3:37 PM
To: district5@co.kern.ca.us; 'district1@co.kern.ca.us'; 'district2@co.kern.ca.us'; 'district3@co.kern.ca.us'; 'district4@co.kern.ca.us'

Cc: Gustavo Aguirre
Subject: RE: Kern EIR gas and oil comment letters 10-19-15

Hi Kern County Supervisors, Mick Gleason, Zack Scrivner, Mike Maggard, David Couch and Leticia Perez.
Dear, supervisors I'm sending copies of the letters hand delivered to your on 10/19/15, I may need to send them in several emails because of size issue. Again the documents are named with 10/19/15 petitions for this date we will be sending you a total of 150 letters plus those sent previously makes a total of 600 up to 10/19/15. Thank you

From: Gustavo Aguirre
Sent: Monday, October 19, 2015 4:54 PM
To: district5@co.kern.ca.us; 'district1@co.kern.ca.us'; 'district2@co.kern.ca.us'; 'district3@co.kern.ca.us'; 'district4@co.kern.ca.us'
Cc: Gustavo Aguirre (gaguirre@crpe-ej.org) (gaguirre@crpe-ej.org)
Subject: RE: Kern EIR gas and oil comment letters

Hi Kern County Supervisors, Mick Gleason, Zack Scrivner, Mike Maggard, David Couch and Leticia Perez.

I received a call from someone at the planning commission saying that in my previous email the letters/petitions were not signed. I'm sorry for the inconvenience, I'm sending the documents I sent you on 10-14-15, I may need to sned them to you in few emails because of the size. Thanks you.

On behalf of Kern County residents; Attached are 150 petitions/comments for the Kern Co. Oil and Gas EIR.
Kern county resident are concern about the EIR that includes allowing oil industry to do fracking, and have activities near residential and school areas, between many other concerns we have that the EIR does not considered to mitigate.

On October 5, 2015 Kern planning commission had the EIR hearing and the main comments and conversations were on how Oil and Agriculture will collaborate, but there were very few Kern residents, because they have to work to feed their families and it's very difficult to attend this kind of meetings, on top of that the outreach was not appropriate for residents, the majority of them don't even know there is an EIR process happening. Therefore with these letters/petitions we are helping residents to communicate with you, our public representatives

hopping you will seriously consider the resident concerns and address them before you consider approving the EIR.

From: Gustavo Aguirre
Sent: Thursday, October 15, 2015 1:16 PM
To: district5@co.kern.ca.us; district1@co.kern.ca.us; district2@co.kern.ca.us; district3@co.kern.ca.us; district4@co.kern.ca.us
Cc: Gustavo Aguirre (gaguirre@crpe-ej.org) (gaguirre@crpe-ej.org)
Subject: RE: Kern EIR gas and oil comment letters

Here are the rest of letter/petitions

thanks

Gustavo Aguirre
Director of Organizing
Center On Race Poverty & The Environment
1012 Jefferson St. Delano Ca, 93215
Phone (661) 720-9140
Cell (661) 667-0136
Fax (661) 720-9483
Email gaguirre@crpe-ej.org

From: Gustavo Aguirre
Sent: Thursday, October 15, 2015 1:14 PM
To: district5@co.kern.ca.us; 'district1@co.kern.ca.us'; 'district2@co.kern.ca.us'; 'district3@co.kern.ca.us'; 'district4@co.kern.ca.us'
Cc: Gustavo Aguirre (gaguirre@crpe-ej.org)
Subject: Kern EIR gas and oil comment letters

Hi Kern County Supervisors, Mick Gleason, Zack Scrivner, Mike Maggard, David Couch and Leticia Perez.

On behalf of Kern County residents; Attached are 150 petitions/comments for the Kern Co. Oil and Gas EIR.
Kern county resident are concern about the EIR that includes allowing oil industry to do fracking, and have activities near residential and school areas, between many other concerns we have that the EIR does not considered to mitigate.

On October 5, 2015 Kern planning commission had the EIR hearing and the main comments and conversations were on how Oil and Agriculture will collaborate, but there were very few Kern residents, because they have to work to feed their families and it's very difficult to attend this kind of meetings, on top of that the

outreach was not appropriate for residents, the majority of them don't even know there is an EIR process happening. Therefore with these letters/petitions we are helping residents to communicate with you, our public representatives hopping you will seriously consider the resident concerns and address them before you consider approving the EIR.

Gustavo Aguirre
Director of Organizing
Center On Race Poverty & The Environment
1012 Jefferson St. Delano Ca, 93215
Phone (661) 720-9140
Cell (661) 667-0136
Fax (661) 720-9483
Email gaguirre@crpe-ej.org

Dear Kern County Board of Supervisors,

As a Kern County Resident and a concerned California resident, I call on you to issue a resolution to ban the practice of fracking and other extreme extraction techniques within Kern County in California.

Fracking is a dangerous method of oil and gas extraction that threatens our state's water, air, wildlife, public health and climate.

Fracking continues our dependence on dirty fossil fuels instead of promoting clean energy alternatives.

Fracking unfairly burdens the most polluted communities in California.

California needs to be a leader in protecting the environment and addressing the urgent danger of climate change.

You have a choice. You can choose to protect our health and the health of our children, our water, our air, our agriculture, our climate, and advance jobs in the renewable energy industry; or you can allow the oil industry to poison our bodies, our homes, and our environment.

Sincerely,

Joshua Rivera



Estimado Condado de Kern,

Como un residente del condado de Kern y un Californiano preocupado, le exhorto para que inmediatamente emitan una resolución prohibiendo la práctica de Fracking y cualquier otra práctica extrema de extracción dentro de los límites del condado de Kern en California.

Fracking es un método muy peligroso para la extracción de aceite y gas que amenaza al agua, aire, ecosistemas, salud pública y el clima de nuestro estado.

Fracking continua nuestra dependencia en gases fósiles sucios en lugar de promover alternativas de energía limpia.

Fracking incrementara la carga injusta a las comunidades más contaminadas en California.

California debe y necesita ser un líder en la protección del medio ambiente y tomar riendas en el peligro urgente del cambio climático.

Ustedes tiene una opcions. Tiene la opción de proteger nuestra salud y la salud de nuestros niños, nuestra agua, nuestro aire, nuestra agricultura y nuestro clima, al mismo tiempo que avanza los trabajos en la industria de la energía renovable; o ustedes pueden permitir a la industria petrolera que envenene nuestros cuerpos, nuestras casas, y nuestro medio ambiente.

Sinceramente,



Estimado Condado de Kern,

Como un residente de Kern Californiano preocupado, le exhorto para que inmediatamente emitan una resolución prohibiendo la práctica de Fracking dentro de los límites del condado de Kern California.

Fracking es un método muy peligroso para la extracción de aceite y gas que amenaza al agua, aire, ecosistemas, salud pública y al clima de nuestro estado.

Fracking incrementara la carga injusta a las comunidades más contaminadas en California.

California debe y necesita ser un líder en la protección del medio ambiente y tomar riendas en el peligro urgente del cambio climático.

Ustedes junto con el estado de California tiene una opción: puede ser un líder nacional al proteger nuestra salud y la salud de nuestros niños, nuestra agua, nuestro aire, nuestra agricultura y nuestro clima, al mismo tiempo que avanza los trabajos en la industria de la energía renovable; o usted puede permitir a la industria petrolera que envenene nuestros cuerpos, nuestras casas, y nuestro medio ambiente.

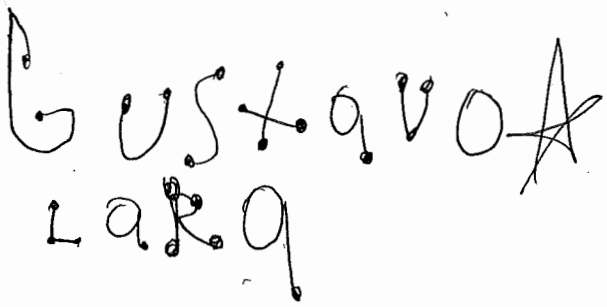
Sinceramente, HILDA J. MOTA

As a resident of Arvin, I fully support a moratorium on fracking and related processes because of the harmful effects that it causes to our community.

Here in Arvin, we just experienced a leak of oil related gases and families were potentially exposed to a health risk , and due to the lack of transparency, many families have suffered physically and financially. As it stands now, there is little information about the process and what it will do in the community. The information we have is dire, nevertheless. We know that fracking and related activities will cause dangerous well injections of chemicals, acid, and other compounds into the ground. We also know that the impacts of these processes are similar to many of the environmental issues that have caused angst among families during the recent Arvin natural gas leak. Groundwater and surface water contamination, odorous smells and poorer air quality, and recently, fracking has been linked to increases in earthquakes.

Given what we know, we should not allow these drilling activities to happen with little to no regulation around this process. Instead, we should be looking for alternatives to relying on such a dangerous process. Let us gather more information before permitting such activities in our community. We support updated zoning ordinances to reflect our intent and we hope that the council will be cautious and will protect us by making sure that these activities will not put our community at risk.

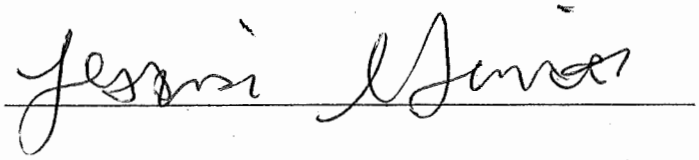
Sincerely,



Como residente de Arvin, yo apoyo completamente un moratorio para "fracking" y cualquier proceso relacionado debido a los efectos dañinos que causa a nuestra comunidad.

Aquí en Arvin, recientemente experimentamos una fuga de gases relacionados con actividades petróleras y muchas familias fueron potencialmente a daños en su salud, dado a la falta de transparencia de la información, muchas familias han sufrido física y financieramente. Hasta el día de hoy, hay muy poca información acerca del proceso y como afectara a la comunidad. Sabemos que fracking y las actividades relacionadas con ello, causaran que norias sean inyectadas con químicos, acido, y otros componentes en la tierra. También sabemos que los impactos en este proceso son similares a muchos problemas ambientales que han causado ansiedad entre las familias durante la reciente fuga de gas natural en Arvin. Contaminación del agua del subsuelo y el agua de canal, los malos olores y la mala calidad del aire, y recientemente fracking han estado relacionados con el incremento de temblores.

Con la información que sabemos, nosotros no deberíamos de permitir este tipo de actividades con la poca y en ocasiones sin ninguna regulación. Deberíamos de contemplar las alternativas en lugar de depender en procesos tan peligrosos. Deberíamos de obtener más información antes de permitir tales actividades en nuestra comunidad. Apoyamos en que las ordenanzas de la ciudad en cuestión de zonas, sean revisadas para que reflejen nuestra intención y esperanza de que el concilio será cuidadoso y que nos protejera asegurando que estas actividades no pongan a nuestra comunidad en riesgo.

Atentamente 

Dear Delano City Council,

As a City of Delano Resident and a concerned California resident, I call on you to issue a resolution to ban the practice of fracking within the City of Delano California.

Fracking is a dangerous method of oil and gas extraction that threatens our state's water, air, wildlife, public health and climate.

Fracking will unfairly further burden the most polluted communities in California.

California needs to be a leader in protecting the environment and addressing the urgent danger of climate change.

You have a choice together with the state of California: you can be a national leader in protecting our health and the health of our children, our water, our air, our agriculture, and our climate and in advancing jobs in the renewable energy industry; or you can allow the oil industry to poison our bodies, our homes, our and environment.

Sincerely, Anthony Bueno

Estimado Concilio de la Ciudad de Delano,

Como un residente de Delano Californiano preocupado, le exhorto para que inmediatamente emitan una resolución prohibiendo la práctica de Fracking dentro de los límites de la ciudad de Delano California.

Fracking es un método muy peligroso para la extracción de aceite y gas que amenaza al agua, aire, ecosistemas, salud pública y al clima de nuestro estado.

Fracking incrementara la carga injusta a las comunidades más contaminadas en California.

California debe y necesita ser un líder en la protección del medio ambiente y tomar riendas en el peligro urgente del cambio climático.

Ustedes junto con el estado de California tiene una opción: puede ser un líder nacional al proteger nuestra salud y la salud de nuestros niños, nuestra agua, nuestro aire, nuestra agricultura y nuestro clima, al mismo tiempo que avanza los trabajos en la industria de la energía renovable; o usted puede permitir a la industria petrolera que envenene nuestros cuerpos, nuestras casas, y nuestro medio ambiente.

Sinceramente, ROMIRO CERVANTES

Attached to this email were 54 petitions addressing the Delano City Council (one version in English and one version in Spanish), 201 petitions addressing the Arvin City Council (one version in English and one version in Spanish), and 279 petitions addressing Kern County or the Kern County Board of Supervisors (one version in English and two versions in Spanish). One copy of each petition is reproduced above.

The e-mail and the petitions do not address the adequacy of the environmental analysis in the Environmental Impact Report and do not require a detailed response. The comments are noted for the record and provided for consideration by the Board of Supervisors.

12.4 Staff-Initiated Revisions to the EIR Following Publication of Chapter 7

12.4.1 Introduction

This *Section 12.4, Staff-Initiated Revisions to the EIR Following Publication of Chapter 7,* consolidates proposed staff-initiated clarifications, amplifications, and insignificant modifications to EIR Volumes 1, 2, and 3 that were made following the September 25, 2015 publication of *Volume 3, Chapter 7, Responses to Comments.*

Among other revisions, this *Section 12.4* sets forth a revised version of the EIR table titled *Summary of Impacts, Mitigation Measures and Level of Impacts After Mitigation* (i.e., a revised version of Table 1-3 in *Section 1.9* and Table 7-2 in *Section 7.1*) which shows all revisions to such table initiated by staff since publication of Chapter 7. Some of these changes were in fact adopted in response to comments as described in Chapter 7, but were inadvertently omitted from the table of mitigation measures published in section 7.1.4 (for example, a revision to MM 4.4-17 was described in response to comment 0004-096 in section 7.2.2, but was not listed on the table in section 7.1.4). Most revisions correct typographical errors in the version of the table published in section 7.1.4 (for example, a redundant word has been deleted from MM 4.3-5(c)). Finally, staff has also initiated further revisions to clarify certain mitigation measures and to reflect the implementation of the new revised amended ordinance (for example, revisions have been added to MM 4.7-1 to more precisely describe the cap-and-trade program).

This *Section 12.4* also consolidates proposed EIR revisions initiated by staff since publication of Chapter 7, including supplemental clarifying information added to staff's responses to comments on the DEIR.

Finally, this *Section 12.4* consolidates all staff-initiated revisions to the appendices that appear in Volumes 2 and 3 of the EIR, including the proposed addition of five new EIR appendices, summarized as follows:

- *Appendix M-2, Cumulative Health Risk Assessment:* This appendix further clarifies responses to comments concerning the Project's potential cumulative air quality impacts on sensitive receptors, including but not limited to Global Responses Air-5 and Air-6, and response to comment 0046-10.

- *Appendix M-3, Draft Emissions Reduction Agreement:* As explained in Section 4.3, Air Quality and Global Response Air-1, Mitigation Measure 4.3-8 requires applicants to pay an air emission mitigation fee, or alternatively to undertake direct emissions reduction, to fully offset new emissions increases via the Oil and Gas Emission Reduction Agreement (OG-ERA). This Appendix M-3 sets forth a preliminary illustrative draft of the OG-ERA that implements MM 4.3-8.

- *Appendix M-4, ANT Proposal: Emissions and Methodology Validation and Mitigation Menu.* This document was referred to in Global Response Air-2 in section 7.2.1. The

appendices to this document were included in Volume 4 of the EIR, but the document itself was inadvertently omitted. Appendix M-4 contains the document in addition to its appendices.

- *Appendix W-1, Signed Traffic Study:* As explained in revised response to comment 0015-2 et al., as described in Section 12.4.2, below, the DEIR's traffic analysis inadvertently cited to a draft version of the Project Traffic Study. The draft Traffic Study was also inadvertently included in Volume 3 as Appendix W to the DEIR. This Appendix W-1 sets forth the signed final Traffic Study that should have been included as an appendix to the DEIR.

- *Appendix V-3, Flare Noise Assessment:* As described in Section 12.4.2, Revisions to Chapter 7, below, Global Response Noise-1: Noise and Vibration has been supplemented to clarify the Project's potential gas flare noise impacts. This Appendix V-3 sets forth a Flare Noise Assessment that supports the revised Global Response Noise-1.

For ease of reference, all text revisions set forth in this Section 12.4 are shown below in underline and ~~strikethrough~~ text. Underlined text represents text additions to the DEIR, and strikethrough text represents text deletions from the DEIR.

12.4.2 Revisions

Pages 1-29 through 1-68 of the EIR, Section 1.9, *is revised as follows*:

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
Aesthetics				
Impact 4.1-1 Have a Substantial Adverse Effect on a Scenic Vista	Less than significant	No mitigation measures are proposed.	Less than significant	All Tiers
Impact 4.1-2 Substantially Damage Scenic Resources, Including, but Not limited to, Trees, Rock Outcroppings, and Historic Buildings within a State Scenic Highway	Less than significant	No mitigation measures are proposed.	Less than significant	All Tiers
Impact 4.1-3 Substantially Degrade the Existing Visual Character or Quality of the Site and its Surroundings	Potentially Significant	**MM 4.1-1** The Applicant shall use existing roads to access oil production areas, or shall construct new roads (or extend existing roads) to minimize the amount of disturbance without impeding existing surface use. **MM 4.1-2** All derricks, boilers, and other drilling equipment used to drill, repair, clean out, deepen or redrill any well with oil, gas, or other hydrocarbon shall be removed from the drill site within 90 days after completion of production tests or after abandonment of any well. Earthen sumps used in drilling shall be filled within 90 days after any well has been placed in production (unless such sumps are to be used within six months for the drilling of another well), and any sump used in productions shall be filled after its abandonment and restored to a uniform grade within ninety days. **MM 4.1-3** Sumps and ponds shall be permitted only to the extent authorized by the Central Valley Regional Water Quality Control Board (via waiver, Waste Discharge Requirements, or other form of authorized written documentation) and shall comply with all applicable legal requirements and mitigation measures for sumps serving as storage, percolation or evaporation ponds for produced water. **MM 4.1-4** Except where located within agricultural land, new oil or gas tanks located within 200 feet of any sensitive receptor shall be partially screened from public view by shrubs, trees or solid screen fencing. Similarly, new pump sites (including multiple well pump sites) within 500 feet of any dwelling must be surrounded by a fence, at least 6 feet in height, constructed of dark-colored chain-link with wood or metal slates, dark green or brown fabric material, or other more visually restrictive fencing material. The height of all new pumping units shall not exceed 80 feet, and shall be painted in accordance with the Kern County Zoning Ordinance. **MM 4.1-5** Project signage is limited to directional, warning, safety, security and identification signs in connection with oil, gas, or other hydrocarbon drilling and development operations in accordance with Chapter 19.84.135 of the Kern County Zoning Ordinance. For any signage necessary for wayfinding, safety, or security, the Applicant shall use the minimum necessary to adequately communicate the required information.	Significant and unavoidable	All Tiers
Impact 4.1-4 Create a New Source of Substantial Light or Glare that Would Adversely Affect Day or Nighttime Views in the Area	Potentially significant	**MM 4.1-6** Permanent nighttime lighting that will be installed for new facility operations will only be lighting required for safety or security. During operations when the lighting is in use, lighting for safety and security will be shielded and oriented downward, bare bulbs will be fully screened from view from sensitive viewing receptors such as residences, and on-demand lighting and/or timers will be used to minimize visual impacts of lighting. In doing so, the Applicant shall comply with the standards in the amended Chapter 19.81 – Outdoor Lighting "Dark Sky Ordinance."	Significant and unavoidable	All Tiers

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
Impact 4.1-5 Contribute to Cumulative Aesthetic Impacts	Cumulatively considerable	Implement MM 4.1.1 through 4.1.6, as described above. No additional feasible mitigation measures exist to avoid or reduce significant adverse cumulative impacts to aesthetics to a less than significant level.	Significant unavoidable	All Tiers
Agricultural Resources				
Impact 4.2-1 Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland) to Non-Agricultural Use	Potentially significant	**MM 4.2-1** For new oil and gas exploration and extraction activities that are: 1) on land designated Prime, Farmland of Statewide Importance or Unique Farmland; and 2) that have been actively farmed 5 years or more out of the last 10 years, agricultural land mitigation is required at a ratio of 1:1. The 1:1 ratio is applied to actual ground disturbance area for oil and gas activities (inclusive of temporary construction and permanent operational impact areas), but excludes non-farmed existing areas such as roads, and tank and maintenance areas, and lands for which agricultural mitigation has previously been provided at a 1:1 ratio. Prior to ground disturbing activity, the Applicant shall submit to the County written evidence of completion of one or more of the following measures to achieve this 1:1 mitigation ratio: a. Funding and/or purchasing agricultural conservation easements or similar instrument acceptable to the County (to be managed and maintained by an appropriate entity). b. Purchasing of credits for conservation of agricultural lands from an established agricultural farmland mitigation bank or an equivalent agricultural farmland preservation program managed by the County. c. Restoring agricultural lands to productive use through the removal of legacy oil and gas production equipment, including well abandonment and removal of surface equipment. d. Participating in any agricultural land mitigation program adopted by Kern County that provides equal or more effective mitigation than the measures listed above. Mitigation lands shall meet the definition of Prime Farmland, Farmland of Statewide Importance, and/or Unique Farmland, and be of similar or higher agricultural quality as the lands, as established by the California Department of Conservation. Completion of the selected measure or, with the Kern County Planning and Community Development Director's approval, a combination of measures, are to occur on qualifying land in Kern County. If qualifying lands cannot be found in Kern County, upon written application to the County, the mitigation lands may be located within the San Joaquin Valley (San Joaquin, Stanislaus, Merced, Fresno, Madera, Kings, Tulare, or Kern County) or outside the San Joaquin Valley with written evidence that the same or equivalent crops can be produced on the mitigation land. Mitigation consisting of removal of legacy equipment within active agricultural fields shall not require recordation of an agricultural conservation easement or conservation easement. Available mitigation funding shall be prioritized for acquisition of large blocks of agricultural land for preservation, and removal of legacy equipment, to minimize and mitigate fragmentation and edge impacts.	Less than significant	All Tiers
Impact 4.2-2 Conflict with Existing Zoning For Agricultural Use or a Williamson Act Contract	Less than significant	No mitigation measures are required.	Less than significant	All Tiers
Impact 4.2-3 Conflict with Existing Zoning for, or Cause Rezoning of, Forest Land or Timberland	No impact	No mitigation measures are required.	No impact	All Tiers

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
Impact 4.2-4 Result in the Loss of Forest Land or Conversion of Forest Land to Non-Forest Use	No impact	No mitigation measures are required.	No impact	All Tiers
Impact 4.2-5 Involve Other Changes in the Existing Environment Which, Because of Their Location or Nature, Could Result in Conversion of Farmland to Non-agricultural Use or Conversion of Forest Land to Non-Forest Use	Potentially significant	**MM 4.2-2** To protect crops and structures adjacent to oil and gas activities on active agricultural lands, each Applicant/operator shall comply with the following mitigation measures set forth in other chapters of this Environmental Impact Report: a. Surface water runoff and drainage on the well pads shall be mitigated as described in mitigation measures for Hydrology and Water Quality. b. A Spill Prevention Countermeasure and Contingency Plan or Division of Oil Gas and Geothermal Resources Assembly Bill 1960 spill plan, as applicable, shall be prepared for the site and oil and chemical spills treated in accordance with the Division of Oil Gas and Geothermal Resources Senate Bill 4 Regulations for the site to protect adjacent farmland, as described in mitigation measures for Hazards. c. Speed limits for oil and gas trucks shall be posted on unpaved roads to reduce dust generation; in the absence of signage, speed limits shall be limited to 25 miles per hour (or an alternate, more stringent dust suppression standard as adopted by the San Joaquin Valley Air Pollution Control District), and Applicants shall attest that employees have been trained in the appropriate speed limits. d. Unpaved roads shall be watered or otherwise treated for dust suppression and control as described in Mitigation Measure for Air Quality, unless speeds are restricted to 15 mph. e. Vehicle tracking control shall be installed where unpaved roads intersect with public paved roads, to prevent tracking of mud, dust, and weed seeds off site, unless speeds are restricted to 15 mph. This shall consist of a 50-foot length of a 3 inch-thick layer of gravel one inch or larger in diameter (or an alternate, more stringent dust suppression technique as approved by the San Joaquin Valley Air Pollution Control District). f. Stormwater control shall be required at construction sites during well drilling, reworking, and/or decommissioning as described in mitigation measures for Hydrology. g. Hazardous materials shall be stored within secondary containment as described in mitigation measures for Hazards. h. Overhead electrical or communication lines shall be shown on the Site Plan, and shall be aligned to the greatest extent feasible with existing access roads and the minimum distance between the access road and the well installation or other oil and gas facility, parallel to tree or row crops, described further in mitigation measures for Public Utilities. If the use of existing roads is not feasible, lines shall be routed to minimize surface disturbance and minimize the impacts to surface activity. i. Underground pipelines serving the Project shall be shown on the Site Plan with locations marked and recorded with USAA, and periodically inspected and maintained as described in mitigation measures for Hazards.	Less than significant	All Tiers
Impact 4.2-6 Result in the Cancellation of an Open Space Contract Made Pursuant to the California Land Conservation Act of 1965 or Farmland Security Zone Contract for Any Parcel of 100 or More Acres	No impact	No mitigation measures are required.	No impact	All Tiers

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
Impact 4.2-7 Cumulative Impacts to Agricultural or Forest Resources	Potentially significant	Implement mitigation measure MM 4.2-1 and MM 4.2-2.	Significant and unavoidable	All Tiers
Air Quality				
Impact 4.3-1 Conflict With or Obstruct Implementation of the Applicable Air Quality Plan	Potentially significant	**MM 4.3-1** Consistent with the requirements of the San Joaquin Valley Air Pollution Control District Regulation II-Permits, the Applicant shall obtain an Authority to Construct permit and a Permit to Operate for any facility or equipment requiring a permit from the San Joaquin Valley Air Pollution Control District, such as stationary sources required to obtain permits pursuant to District Rule 2010. All emissions increases from permitted equipment shall comply with District Rule 2201. **MM 4.3-2** The Applicant shall develop and implement a Fugitive Dust Control Plan in compliance with San Joaquin Valley Air Pollution Control District fugitive dust suppression regulations to further reduce emissions, during construction, of particulate matter that is 10 microns or less and 2.5 microns or less in diameter. The Fugitive Dust Control Plan shall include: a. Name(s), address(es), and phone number(s) of person(s) responsible for the preparation, submission, and implementation of the plan. b. Description and location of operation(s). c. Listing of all fugitive dust emissions sources included in the operation. d. The following dust control measures shall be implemented: 1. All on-site unpaved roads shall be effectively stabilized using water or chemical soil stabilizers that can be determined to be as efficient as or more efficient for fugitive dust control than California Air Resources Board approved soil stabilizers, and that shall not increase any other environmental impacts including loss of vegetation. 2. All material excavated or graded will be sufficiently watered to prevent excessive dust. Watering will occur as needed with complete coverage of disturbed areas. The excavated soil piles will be watered as needed to limit dust emissions to less than 20% opacity or covered with temporary coverings. 3. Construction activities that occur on unpaved surfaces will be discontinued during windy conditions when winds exceed 25 miles per hour and those activities cause visible dust plumes. Construction activities may continue if dust suppression measures are used to minimize visible dust plumes. 4. Track-out debris onto public paved roads shall not extend 50 feet or more from an active operation and track-out shall be removed or isolated such as behind a locked gate at the conclusion of each workday, except on agricultural fields where speeds are limited to 15 mph. 5. All hauling materials should be moist while being loaded into dump trucks. 6. All haul trucks hauling soil, sand, and other loose materials on public roads shall be covered (e.g., with tarps or other enclosures that would reduce fugitive dust emissions). 7. Soil loads should be kept below 6 inches or the freeboard of the truck. 8. Drop heights should be minimized when loaders dump soil into trucks.	Less than significant	All Tiers

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		9. Gate seals should be tight on dump trucks. 10. Traffic speeds on unpaved roads shall be limited to 25 miles per hour. 11. All grading activities shall be suspended when visible dust emissions exceed 20%. 12. Other fugitive dust control measures as necessary to comply with San Joaquin Valley Air Pollution Control District Rules and Regulations. 13. Disturbed areas should be minimized. 14. Disturbed areas should be re-vegetated as soon as possible after disturbance if area is no longer needed for oil and gas activities. **MM 4.3-3** All off-road construction diesel engines not registered under California Air Resources Board's Statewide Portable Equipment Registration Program, which have a rating of 50 horsepower or more, shall meet, at a minimum, the Tier 3 California Emission Standards for Off-road Compression-Ignition Engines as specified in California Code of Regulations, Title 13, section 2423(b)(1) unless that such engine is not available for a particular item of equipment. In the event a Tier 3 engine is not available for any off-road engine larger than 100 horsepower, that engine shall be equipped with retrofit controls that would provide nitrogen oxides and particulate matter emissions that are equivalent to Tier 3 engine. a. All equipment shall be turned off when not in use. Engine idling of all equipment shall be limited to five minutes, except under exemptions specified in California Code of Regulations Title 13 Section 2449(d)(2)(A). b. All equipment engines shall be maintained in good operating condition and in proper tune per manufacturers' specifications. **MM 4.3-4** To further reduce emissions of oxides of nitrogen from on-road heavy-duty diesel haul vehicles: a. 2007 engines or pre-2007 engines shall comply with California Air Resources Board retrofit requirements set forth in California Code of Regulations Title 13 Section 2025. b. All on-road construction vehicles, except those meeting the 2007/California Air Resources Board-certified Level 3 diesel emissions controls, shall meet all applicable California on-road emission standards and shall be licensed in the State of California. This does not apply to worker personal vehicles. c. All on-road construction vehicles shall be properly tuned and maintained in accordance with the manufacturers' specifications.		
Impact 4.3-2 Violate Any Air Quality Standard as Adopted in (c)i or (c)ii, or Established by United States Environmental Protection Agency or Air District or Contribute Substantially to an Existing or Projected Air Quality Violation	Potentially significant	Implement MM 4.3-1 through MM 4.3-4, as described above.	Less than significant	All Tiers
Impact 4.3-3 Expose Sensitive Receptors to Substantial Pollutant Concentrations	Potentially significant	**MM 4.3-5** Construction: The Site Plan Application shall include a Site Vicinity Figure showing the location of any sensitive receptor(s) within 3,000 feet of the construction site (potential impact area) for the proposed new well or other ancillary facility or equipment (excluding pipelines).	Less than significant	All Tiers

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

<table>
<tr><th>Impact</th><th>Level of Significance before Mitigation</th><th>Mitigation Measure(s)</th><th>Level of Significance after Mitigation</th><th>Applicable Tier</th></tr>
<tr><td></td><td></td><td>
a. If there are no sensitive receptors within this potential impact area, then no construction mitigation measures shall be required.

b. If there are sensitive receptors within the potential impact area, then additional information must be provided showing the setback from the closest edge of the well pad to the property line of the nearest sensitive receptor. The minimum distances shall be as follows:
<table>
<tr><th>Well Depth (Feet)</th><th>Minimum Setback Distance from Well Site to Adjacent Property Line of an Existing Sensitive Receptor (Feet)</th></tr>
<tr><td colspan="2">Western Subarea</td></tr>
<tr><td>10,000</td><td>367</td></tr>
<tr><td>5,000</td><td>116</td></tr>
<tr><td>2,000</td><td>NA</td></tr>
<tr><td colspan="2">Central Subarea</td></tr>
<tr><td>10,000</td><td>367</td></tr>
<tr><td>5,000</td><td>116</td></tr>
<tr><td>2,000</td><td>NA</td></tr>
<tr><td colspan="2">Eastern Subarea</td></tr>
<tr><td>10,000</td><td>296</td></tr>
<tr><td>5,000</td><td>NA</td></tr>
<tr><td>2,000</td><td>NA</td></tr>
</table>
</td><td></td><td></td></tr>
</table>

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		c. If the above setbacks cannot be met, and for existing wells, the Applicant shall provide a site-specific or other risk assessment to the San Joaquin Valley Air Pollution Control District, which may include implementation of ~~implement~~ one or more of the following risk minimization measures, or other such measures that are demonstrated by the Applicant to the San Joaquin Valley Air Pollution Control District, to achieve a level of risk less than the threshold risk level, and shall provide confirmation from the San Joaquin Valley Air Pollution Control District that the activity that is the subject of the application will not exceed the risk threshold: 1. Placement of engines in the potential impact area away from the sensitive receptors. 2. Utilize directional drilling to locate rig away further from the sensitive receptor(s). 3. Use of late-model engines, low-emission diesel products, alternative cleaner fuels (e.g., natural gas or liquefied petroleum gas), engine retrofit technology, add-on devices such as diesel particulate filters or oxidation catalyst, and/or other options as such become available to reduce emissions from off-road and other equipment. 4. Utilize electricity line power if available. 5. Shutdown all equipment when not in use, and otherwise minimize engine idling by limiting idling to 15 minutes. 6. Use of automatic rigs. 7. Assist and pay to relocate residents to temporary lodging during well construction, drilling, and completion activities, if such residents voluntarily agree to such relocation. **MM 4.3-6** Applicants shall include in their Worker Environmental Awareness Program information on how to recognize the symptoms of Valley Fever and to promptly report suspected symptoms of work-related Valley Fever to a supervisor. Workers exposed to fugitive dust shall be provided with the option of using a filter fitted over their nose and mouth, secured by a strap, including training for appropriate mask practices as part of the Worker Environmental Awareness Training Program.		
Impact 4.3-4 Create Objectionable Odors Affecting a Substantial Number of People	Potentially significant	**MM 4.3-7** Applicant shall submit an Odor Complaint Management Plan to the County prior to receiving its first Site Plan conformity review approval. The Plan shall include a designated contact for odor complaints, creation of a log for odor complaints, and protocol for handling odor complaints. The odor log and report files shall be available for public review upon request.	Significant and unavoidable	All Tiers
Impact 4.3-5 Result in a Cumulatively Considerable Net Increase of any Criteria Pollutant for which the project Region is Nonattainment under an Applicable Federal or State Ambient Air Quality Standard (Including Releasing Emissions which Exceed Quantitative Thresholds for Ozone Precursors)	Potentially significant	Implement MM 4.3-1 through MM 4.3-4, as described above. **MM 4.3-8** For criteria emissions, not required to be offset under a District rule as described in MM 4.3-1, and for Project vehicle and other mobile source emissions, the County will enter into an emission reduction agreement with the San Joaquin Valley Air Pollution Control District, pursuant to which the Applicant shall pay fees to fully offset Project emissions of oxides of nitrogen, reactive organic gases, and particulate matter of 10 microns or less in diameter (including as applicable mitigating for reactive organic gases by additive reductions of particulate matter of 10 microns or less in diameter) (collectively, "designated criteria emissions") to avoid any net increase in these pollutants. The air quality mitigation fee shall be paid to the County as part of the Site Plan review and approval process, and shall be used to reduce designated criteria emissions to fully offset Project emissions that are not otherwise required to be fully offset by District permit rules and regulations.	Significant and unavoidable	All Tiers

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)		Level of Significance after Mitigation	Applicable Tier
			As an alternative to paying the fee, an Applicant may reduce emissions for one or more designated criteria emissions through actual reductions in air emissions from other Applicant sources, as submitted to the County and validated by the District. This Project offset requirement alternative shall be enforced by the County and verified by San Joaquin Valley Air Pollution Control District, and must be approved in advance by the San Joaquin Valley Air Pollution Control District. If a voluntary emission reduction agreement is not executed by the County and San Joaquin Valley Air Pollution Control District, then each Applicant must mitigate for the full amount of designated criteria pollutants as verified by the San Joaquin Valley Air Pollution Control District, with evidence of such District-verified offsets presented as part of the Site Plan Conformity Review application documentation. Examples of feasible air emission reduction activities that may be funded by air quality fees paid by Applicant or proposed and implemented by the Applicant under the emission reduction agreement include, but are not limited to, the following: a. Replacing or retrofitting diesel-powered stationary equipment such as motors on generators, pumps and wells with electric or other lower-emission engines that are not subject to Title V reductions. b. Replacing or retrofitting diesel-powered school, transit, municipal and other community mobile sources such as buses, car fleets, and maintenance equipment, with electric or other lower-emission engines. c. Reducing emissions from public infrastructure sources such as water and wastewater treatment and conveyance facilities, and reducing water-related emissions through water conservation and reclamation. d. Funding lower-emission equipment and processes for local businesses, schools, non-profit and religious institutions, hospitals, city and county facilities.		
Biological Resources					
Impact 4.4-1 Have a Substantial Adverse Effect, either Directly or through Habitat Modifications, on any Species Identified as a Candidate, Sensitive, or Special Status Species in Local or Regional Plans, Policies, or Regulations or by the California Department of Fish and Wildlife or the United States Fish and Wildlife Service	Potentially significant	**MM 4.4-1**	A qualified biologist shall conduct a biological reconnaissance survey in potential special-status species habitat to advise the project proponent of potential project impacts, potential surveying needs, and advise on the need for focused special status surveys. Early consultation with United States Fish and Wildlife Service and California Department of Fish and Wildlife would confirm the biologist's advice and/or inform project proponents of additional recommendations. Based on the information gathered from the biological reconnaissance survey and any informal consultation with United States Fish and Wildlife Service and California Department of Fish and Wildlife, focused/protocol surveys shall be conducted by a qualified or permitted biologist (whichever is applicable) well in advance of ground disturbing activities to determine the presence/absence of sensitive species protected by state and federal Endangered Species Acts and potential project impacts to those species. The survey shall be conducted in accordance with the most current standard protocol of United States Fish and Wildlife Service and California Department of Fish and Wildlife. The purpose of focused/protocol surveys is to confirm the presence or absence of any species listed as threatened or endangered under the federal Endangered Species Act, threatened or endangered under the California Endangered Species Act, rare or endangered in the California Native Plant Protection Act, or designated as fully-protected in the California Fish and Game Code (collectively, "Protected Species"), and to confirm the presence or absence of any other species considered "sensitive" under California Environmental Quality Act ("Sensitive Species"), and to identify and implement feasible avoidance and minimization measures for such species. The surveys shall be conducted in accordance with all currently-applicable presence and absence survey and/or species protocols established by the United States Fish and Wildlife Service and the California Department of Fish and Wildlife ("Species Protocols"). In the absence of any approved protocols, the survey shall extend for a minimum of 250 feet from all areas where any ground disturbance activities would occur, provided that permission to access has been obtained. As an alternative to individual pre-disturbance surveys for each application, and after consultation with and concurrence by the California Department of Fish and Wildlife and the United States Fish and Wildlife Service, multiple parcels or areas of oil and gas production lands (including lands which may have multiple surface or mineral ownership) may be consolidated for the purpose of more efficiently managing	Less than significant	All Tiers

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

<table>
<tr><th>Impact</th><th>Level of Significance before Mitigation</th><th>Mitigation Measure(s)</th><th>Level of Significance after Mitigation</th><th>Applicable Tier</th></tr>
<tr><td></td><td></td><td>pre-disturbance surveys and determinations regarding the absence of protected species in areas of proposed new ground disturbance activities. A biological monitor shall be present during ground-disturbing activities in project locations that have special-status species habitat or are adjacent to potential special-status species habitat. Within 30 days before any ground disturbing activities in special-status species habitat, a qualified biologist shall conduct a pre-disturbance survey to record existing conditions of the site, determine if conditions have changed since the reconnaissance or focused/protocol surveys were conducted, and to determine where sensitive species avoidance buffers will be established.

MM 4.4-2 No incidental take of any species listed as threatened or endangered under the federal Endangered Species Act, threatened or endangered under the California Endangered Species Act, rare or endangered in the California Native Plant Protection Act, or designated as fully-protected in the California Fish and Game Code (Protected Species) may occur unless the incidental take is authorized by applicable state and federal wildlife agencies in the form of a permit or other written authorization, an approved state or federal conservation plan, or in accordance with an approved regional plan such as the Draft Valley Floor Habitat Conservation Plan and/or Natural Community Conservation Plan.

MM 4.4-3 Protective buffers shall be used, where effective and feasible in the opinion and guidance of the qualified biologist, to avoid any unauthorized incidental take of Protected Species, and to minimize any incidental take of Sensitive Species, by separating the planned disturbance area from any locations where biological reconnaissance surveys, previously conducted focused/protocol surveys, or pre-disturbance surveys have detected the presence of Protected Species or Sensitive Species. Protective buffers shall be delineated using brightly colored stakes and/or flagging or similar materials and remain until construction activities are complete, at which time of completion the buffers must be removed. If special-status plant or animal species are found adjacent to the project during biological surveys, protective buffers shall be established around active dens and/or burrows of special-status animal species, or populations of special-status plant species to avoid unauthorized take of protected species as listed in the table below. The protective buffer distance shall be increased if required to avoid unauthorized incidental take of any Protected Species as determined by a qualified biologist. Protective buffer distances and other avoidance measures that may be implemented to avoid impacts to Protected Species or Sensitive Species must be consistent with the United States Fish and Wildlife Service and/or the California Department of Fish and Wildlife, and shall be implemented and overseen by a qualified biologist.

<u>Table: Disturbance Buffers for Sensitive Resources</u>
<table>
<tr><th>Sensitive Resource</th><th>Buffer Zone from Disturbance (feet)</th></tr>
<tr><td></td><td></td></tr>
<tr><td>Potential San Joaquin kit fox den</td><td>50</td></tr>
<tr><td>Known San Joaquin kit fox den</td><td>100</td></tr>
<tr><td>Natal San Joaquin kit fox den</td><td>Contact California Department of Fish & Wildlife, United States Fish & Wildlife Service</td></tr>
</table>
</td><td></td><td></td></tr>
</table>

Atypical San Joaquin kit fox den	50
Rodent burrows	50
Listed bird species active nests	0.5 mile
Burrowing owl burrow (breeding and non-breeding season)	Pursuant to California Department of Fish & Wildlife guidelines (see Table 4.4-85)
San Joaquin coachwhip, silvery legless lizard, coast horned lizard	30
American badger: Non-maternity dens Maternity dens	 50 200
Special-status plants	50

MM 4.4-4 Occupied burrowing owl burrows shall not be disturbed during the species nesting season (February 1 through August 31). The following distances shall be maintained between all disturbance areas and burrowing owl nesting sites (Table 4.4-84).

Table 4.4-~~84~~85: Setback Distances for Burrowing Owl Nesting Sites by Level of Proposed Project Impacts

Location		
Nesting sites	Nesting sites	Nesting sites
Time of Year		
April 1–Aug 15	Aug 16–Oct 15	Oct 16–Mar 31
Project Impact Level		
Low		
656 feet (200 meters)	656 feet (200 meters)	164 feet (50 meters)
Medium		
1,640 feet (500 meters)	656 feet (200 meters)	328 feet (100 meters)
High		

		1,640 feet (500 meters)	1,640 feet (500 meters)	1,640 feet (500 meters)

Burrowing owls present in proposed disturbance areas or within 500 feet or as specified under an approved Habitat Conservation Plan (as identified during pre-disturbance surveys) outside of the breeding season (between September 1 and January 31) may be moved away from the disturbance area using passive relocation techniques approved by the California Department of Fish and Wildlife. Passive relocation techniques in the California Department of Fish and Wildlife *Staff Report on Burrowing Owl Mitigation Guidelines* (California Department of Fish and Game 2012) include installing one-way doors in burrow entrances for 48 hours, to ensure the owl(s) have left the burrow, daily monitoring during the passive relocation period, and collapsing existing burrows to prevent reoccupation. A minimum of one or more weeks will be required to relocate the owl(s) and allow for acclimatization to alternate off-site burrows. Prior to burrow exclusion or eviction, a burrowing owl management plan shall be prepared and approved by the California Department of Fish and Wildlife. Destruction of burrows shall occur only pursuant to a management plan for the species approved by the California Department of Fish and Wildlife; burrow excavation shall be conducted by hand whenever possible.

As an alternative to passive relocation, occupied burrows identified off-site within 500 feet of construction activities may be buffered with hay bales, fencing (e.g. sheltering in place), or as directed by the qualified biologist and the California Department of Fish and Wildlife, to avoid disturbance of burrows.

MM 4.4-5 The pre-disturbance surveys shall determine whether active bat maternity roosts are located in or within 250 feet of any disturbance area. All active bat maternity roosts shall be avoided during breeding periods, including postponing disturbance activities if required, and to the maximum extent feasible at other times. If an active bat maternity roost location cannot feasibly be avoided by disturbance, the United States Fish and Wildlife Service and California Department of Fish and Wildlife must be contacted to identify appropriate impact minimization measures prior to initiating any disturbance that would affect the roost.

MM 4.4-6 Any potential San Joaquin kit fox dens (as defined in United States Fish and Wildlife Service 2011) detected during reconnaissance or focused/protocol surveys shall be reevaluated for species activity no more than 30 days prior to the commencement of ground disturbance. Potential kit fox dens shall be marked and a 50-foot avoidance buffer shall be delineated using brightly colored stakes and flagging or similar materials to prevent inadvertent damage to the potential den. If a potential den cannot feasibly be avoided, the den may be hand excavated in accordance with the United States Fish and Wildlife Service *Standardized Recommendations for Protection of the Endangered San Joaquin Kit Fox Prior to or During Ground Disturbance* (United States Fish and Wildlife Service 2011). If species activity is detected, the location shall be identified as a "known" kit fox den in accordance with the U.S. Fish and Wildlife Service species guidelines (United States Fish and Wildlife Service 2011). A minimum 100-foot buffer from any disturbance area shall be maintained for known dens and a minimum 500-foot buffer from any disturbance area shall be maintained for natal dens. No excavation of a known or natal den shall occur without prior authorization from the United States Fish and Wildlife Service and the California Department of Fish and Wildlife. For activities occurring on land covered under an approved federal and/or State incidental take authorization, the requirements set forth in those documents shall be implemented. Other standard measures to protect San Joaquin kit fox, including capping pipes, covering trenches, adding exit ramps to excavated areas, shall be implemented in accordance with MM 4.4-15.

MM 4.4-7 Occupied American badger dens detected during pre-disturbance surveys shall be flagged and ground-disturbing activities avoided within 50 feet of the den. Maternity dens shall be avoided and a minimum 200-foot buffer from disturbance shall be maintained during pup-rearing season (February 15 through July 1). Maternity dens must be avoided to the maximum extent feasible. If a maternity den cannot feasibly be avoided, the California Department of Fish and Wildlife must be contacted to identify appropriate impact minimization measures prior to initiating any disturbance that would affect the den, including potential passive relocation by excavation before or after the rearing season.

MM 4.4-8 Pre-disturbance surveys for all sites located above 2,000 feet in elevation, or within 200 feet down gradient from the 2,000-foot elevation contour line, shall specifically survey for any golden eagle nests located within 2 miles of the site. If golden eagle nests are detected by the surveys, the qualified biologist shall conduct a nest-specific viewshed analysis. No disturbance may occur within 0.25 mile, or within 0.5 mile of the viewshed of an active golden eagle nest unless otherwise authorized by State and federal wildlife agencies. The United States

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		Fish and Wildlife Service and California Department of Fish and Wildlife must be notified prior to the commencement of any disturbance activities within 1 mile of an active golden eagle nest to avoid golden eagle take. **MM 4.4-9** All sites located above 2,000 feet in elevation, or within 200 feet down gradient from the 2,000-foot elevation contour line, shall implement the following measures to avoid and minimize potential adverse impacts to the California condor: a. The site shall, at all times, be maintained to avoid any trash, debris, food sources and microtrash, such as bottle caps, that could be ingested by or attract California condor. Trash shall be disposed in animal-proof containers as required in BIO 4.4-19. b. The Worker Environmental Awareness Program described in BIO MM 4.4-18 shall include information about microtrash and potential effects to California condor, and shall prohibit the disposal of trash (and microtrash) on the site of oil and gas activities. c. If a condor is observed in a proposed construction site, all disturbance activities must immediately cease within 500 feet of the condor until the animal has moved from the site. If condor occurrence persists, the United States Fish and Wildlife Service and the California Department of Fish and Wildlife must be contacted to identify appropriate avoidance measures prior to initiating or resuming any disturbance activity. d. All condor observations shall be reported within 24 hours to the United States Fish and Wildlife Service and the California Department of Fish and Wildlife. e. All tanks, liquid storage facilities, and any open area containing water or other liquid materials, including drilling sumps, must be covered or otherwise shielded in a manner that prevents condor intrusion and potential entrapment. f. No overhead transmission lines ~~greater than 85kV~~ may be used at the site without the prior approval of the United States Fish and Wildlife Service and the California Department of Fish and Wildlife. **MM 4.4-10** Pre-disturbance surveys for active bird nests must be conducted no more than 10 days prior to the commencement of disturbance. Surveys shall follow United States Fish and Wildlife and California Department of Fish and Wildlife guidance and/or protocols, as applicable. If no active nests or nesting birds are identified, then Project construction activities may proceed and no further mitigation measures for nesting birds are required. If active nest(s) are identified, the active nest(s) should be continuously surveyed for the first 24 hours after detection, to establish a behavioral baseline prior to any construction-related activities. Once construction commences, all nests shall be continuously monitored to detect any behavioral changes as a result of the Project (i.e., nest avoidance or abandonment). If behavioral changes are observed, the work causing that change should cease and the California Department of Fish and Wildlife and the United States Fish and Wildlife should be consulted for additional avoidance and minimization measures. If continuous monitoring of identified nests by a qualified wildlife biologist is not feasible, a minimum no-disturbance buffer of 250 feet will be established around active nests and a 500-foot no-disturbance buffer around the nests of raptors until the breeding season has ended, or until a qualified biologist has determined that the birds have fledged and are no longer reliant upon the nest or parental care for survival, and any adult birds are no longer occupying the nest. Variance from these no-disturbance buffers may be implemented a qualified biologist concludes that work within the buffer area would not cause nest avoidance or abandonment (e.g., when the disturbance area would be concealed from a nest site by topography). The California Department of Fish and Wildlife and the United States Fish and Wildlife must be notified in advance of implementing of a variance in the no-disturbance buffer. **MM 4.4-11** The following measures will be implemented to avoid take of blunt-nosed leopard lizard and to ensure protection of these animals during Project activities: a. Project activities will avoid all potential burrows that may be occupied by blunt-nosed leopard lizards. Suitable burrows within and adjacent to potential habitat for the species should be avoided by a minimum distance of 50-feet in all areas where ground-disturbing Project activities will occur.		

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		b. No more than one year prior to ground disturbing activities, focused surveys following current California Department of Fish and Wildlife and United States Fish and Wildlife protocols for detection of this species or other methods approved by both agencies shall be conducted in all potential blunt-nosed leopard lizard habitat within the work site and a 250-foot buffer area. If no individual blunt-nosed leopard lizards are observed during focused surveys, and surveys are current (e.g., completed in the same calendar year), then Project activities may proceed. c. If blunt-nosed leopard lizards are detected during focused surveys, a blunt-nosed leopard lizard avoidance plan shall be prepared for the Project that will result in avoidance of incidental take of this species unless take is separately authorized under a Natural Communities Conservation Plan and appropriate federal authorization is obtained. At a minimum, the blunt-nosed leopard lizard avoidance plan shall be provided to the California Department of Fish and Wildlife and the County, and shall contain the following elements: 1. A Worker Environmental Awareness Program shall be implemented for all construction personnel before construction begins (see MM 4.4-18). 2. During periods that are optimal for blunt-nosed leopard lizard activity (early spring through late fall), a qualified biologist will be present during all ground disturbing activities. The qualified biologist will check the Project site(s) and access route(s) daily during the blunt-nosed leopard lizard active season to determine presence or absence of lizards in or near the work areas. Monitoring by a qualified biologist is not required during periods of inactivity (the winter season). 3. All open trenches or excavations shall be covered at the end of each workday or protected with the use of exclusion fencing to prevent wildlife entrapment. If an excavation is too large to cover, escape ramps shall be installed at an incline ratio of no greater than 2:1. All trenches and pipes shall be inspected for the presence of wildlife each day prior to the commencement of work. If blunt-nosed leopard lizards are observed at the work site during construction, construction shall cease within a 250-foot radius and the United States Fish and Wildlife Service and the California Department of Fish and Wildlife shall be consulted to determine what additional measures would be necessary to prevent take of this species. 4. Offsite locations where blunt-nosed leopard lizards have been observed or are likely to occur shall be clearly marked to prevent workers from driving off the road and to prevent inadvertent destruction of burrows. Barriers, such as exclusionary fencing may be installed. All construction equipment and construction personnel vehicles will be checked prior to moving to ensure no blunt-nosed leopard lizard are under equipment/vehicles. 5. A speed limit of 10 miles per hour shall be posted and observed within 0.25 miles of any reported blunt-nosed leopard lizard observation. 6. Construction activities shall avoid burrows that may be used by blunt-nosed leopard lizards. Any location of proposed construction activity with potential to collapse or block burrows (i.e., stockpile storage, parking areas, staging areas, trenches) will be identified prior to construction in the blunt-nosed leopard lizard avoidance plan and approved by the qualified biologist. The qualified biologist may allow certain activities in burrow areas if the combination of soil hardness and activity impact is not expected to collapse burrows and no blunt-nosed leopard lizards have been found during pre-Project surveys in the impact area. 7. All individual blunt-nosed leopard lizards observed above-ground will be avoided. Any individual blunt-nosed leopard lizard that may enter the Project site(s) would be allowed to leave unobstructed, and on its own accord. If a blunt-nosed leopard lizard is detected during biological monitoring or observed at any other point, the California		

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		Department of Fish and Wildlife and the United States Fish and Wildlife Service shall be notified to determine what additional measures would be necessary to prevent take of the species. **MM 4.4-12** The Applicant shall comply with the following: a. Plant surveys for Protected Species and Sensitive Species must be completed by a qualified biologist during the appropriate blooming periods for species identification and detection. Plant surveys shall be conducted in accordance with all applicable protocols established by the United States Fish and Wildlife Service and the California Department of Fish and Wildlife for particular plant species ("Plant Survey Protocol"), and shall extend 50 feet from areas where any new disturbance would occur unless a greater survey distance is specified in the Plant Survey Protocol. All detected plant populations of Protected Species and Sensitive Species shall be identified in the field during the surveys with temporary flags or other appropriate materials to avoid and minimize impacts to the plant populations from any disturbance activities. b. No incidental take or relocation of any plant listed under the federal Endangered Species Act, the California Endangered Species Act, or the California Native Plant Protection Act may occur unless the incidental take is authorized by the United States Fish and Wildlife Service and/or the California Department of Fish and Wildlife in a permit or other authorization, or in an approved Habitat Conservation Plan or Natural Communities Conservation Plan. If focused plan surveys detect the presence of any listed plant, the plant populations shall be buffered from disturbance activities by implementing applicable impact avoidance protocols established by the United States Fish and Wildlife Service and/or the California Department of Fish and Wildlife unless incidental take authority is obtained. Projects covered under incidental take authority shall conduct activities in accordance with the take authorization. The California Department of Fish and Wildlife may be contacted to determine the appropriate buffer required to prevent incidental take of a listed plant if avoidance protocols have not been established for the species. The qualified biologist shall confirm that all applicable listed plant buffers have been implemented prior to the commencement of any disturbance activity. c. If any non-listed sensitive plant species are identified that may be impacted by new ground disturbing activities, populations must be avoided by a 50-foot buffer. **MM 4.4-14** A Worker Environmental Awareness Program shall be developed and implemented for all personnel that could access the site prior to commencing any disturbance activities. The program shall consist of an on-site or center presentation that will describe the locations and types of sensitive plant, wildlife, and sensitive natural communities (collectively, "Biological Resources") on and near the site, an overview of the laws and regulations governing the protection of Biological Resources, the reasons for protecting the Biological Resources, the specific protection and avoidance measures that are applicable to the site, and the identity of designated points of contact should questions or issues arise, including the qualified biologist. The program shall provide training to recognize, avoid and report to applicable qualified biologists any Biological Resources on the site. a. The Worker Environmental Awareness Program shall emphasize the need to avoid contact with onsite wildlife, and avoid entry into areas where Biological Resources have been identified based on pre-disturbance field surveys and to implement the buffer avoidance or other protection measures established by the United States Fish and Wildlife Service shall be identified California Department of Fish and Wildlife or required by the Biological Resource mitigation measures. The training shall emphasize the importance of not feeding or domesticating wildlife and the need to avoid any trash, microtrash, or potential food disposal onsite except in animal-proof containers emptied daily to avoid attracting, or causing adverse impacts to special status wildlife. b. All onsite personnel must sign a statement verifying that they have completed the Worker Environmental Awareness Program, and that they understand and agree to implement the biological requirements for the worksite. If signed employee statements are not available, documentation may be provided by Worker Environmental Awareness Program training records, which shall be kept by the Applicant for a minimum of 5 years. Each Applicant shall maintain a list of all persons who have completed the training program, and shall provide the list to the County or to state and federal wildlife agency representatives upon request. **MM 4.4-15** The following additional measures shall be implemented to avoid and minimize potential significant adverse impacts to Protected and Sensitive Species:		

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

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		a. All vehicles shall observe a 20-mile-per-hour speed limit in all areas of disturbance and on unpaved roads unless otherwise posted. Off-road traffic outside of designated access routes is prohibited. Speed limit signs shall be posted in visible locations at the point of site entry and at regular intervals on all unpaved access roads. b. All disturbance activities, except emergency situations or drilling that may require continuous operations, shall only occur during daylight hours. Night time disturbance activity for drilling purposes shall use directed lighting, shielding methods, or reduced lumen intensity to avoid unnecessary visual disturbance to wildlife and to comply with applicable lighting mitigation measures. c. All food-related trash items and all forms of microtrash, such as wrappers, cans, bottles, bottle tops, and food scraps shall be disposed of in closed, animal proof containers and removed daily from the site. d. Excavations, spoils piles, access roadways, and parking and staging areas shall subject to dust control as set forth in the dust control mitigation measures. e. The use of herbicides for vegetation control shall be restricted to those approved by the United States Fish and Wildlife Service and the California Department of Fish and Wildlife. No rodenticides shall be used on any site unless approved by the United States Fish and Wildlife Service, and the California Department of Fish and Wildlife, and shall observe label and other restrictions mandated by the United States Environmental Protection Agency, California Department of Food and Agriculture, and state and federal laws and regulations. For split estates, no herbicides for vegetation control may occur in Tier 2 areas without surface owner approval. f. No plants or wildlife shall be collected, taken, or removed from the site or any adjacent locations except as necessary for Project-related vegetation removal or wildlife relocation by a qualified biologist and subject to all applicable permits and authorizations. g. All open trenches or excavations shall be covered at the end of each workday to prevent wildlife entrapment. If an excavation is too large to cover, escape ramps shall be installed at an incline ratio of no greater than 2:1. All trenches and pipes shall be inspected for the presence of wildlife each day prior to the commencement of work. h. To enable San Joaquin kit foxes and other wildlife to pass through the Project site, any perimeter fencing shall include a 4- to 8-inch opening between the fence mesh and the ground or the fence shall be raised 4 inches above the ground except blunt-nosed leopard lizard exclusion fencing. The bottom of the fence fabric shall be knuckled (wrapped back to form a smooth edge) to protect wildlife. i. All vertical tubes used in Project construction and chain link fencing poles, shall be temporarily or permanently capped to avoid the entrapment and death of special-status wildlife and birds. All pipes 1.5 inches or greater in diameter stored overnight on a project location must have end caps or other physical barriers that prevent wildlife from entering the pipe. j. All dead or injured special status wildlife shall be left in place and reported to the United States Fish and Wildlife Service and the California Department of Fish and Wildlife within 48 hours of discovery for rescue or salvage. Discovery of state or federal listed species that are injured or dead shall also be managed consistent with regulatory requirements, including being reported immediately via telephone and within 24 hours in writing, and with a copy to Kern County Planning and Community Development. k. All drilling installations and operations will comply at all times with the applicable federal, State, county, and local law ordinances and regulations. l. All activity shall use previously disturbed areas to the maximum extent feasible to minimize the amount of new disturbance. m. ~~Vehicle, equipment, and material storage must be limited to previously disturbed areas. No construction or operational materials may be placed or stored outside of the planned disturbance area or stockpiled for future disposal.~~ All concrete and asphalt debris should be removed from the site for recycling or proper disposal.		

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		n. No vehicles or construction equipment shall be parked within a wetland or waterbody/dry wash. o. Tracked vehicles and other construction equipment must be washed or maintained to be weed-free prior to entering and working within areas of new disturbance. p. All washing of trucks, paint, equipment, or similar activities should occur in areas where runoff is fully contained for collection and offsite disposal. Wash water may not be discharged from the site and shall be located at least 100 feet from any water body, or sensitive Biological Resources. q. Locate all extra work areas (such as staging areas and additional spoil storage areas) at least 50 feet away from wetland boundaries or waterbody, except where the adjacent upland consists of cultivated or rotated cropland or other disturbed land. r. All areas that must be avoided as result of the pre-disturbance surveys, and areas where new disturbance will occur, shall be clearly delineated by fencing or staking and flagging and/or rope or cord. s. No firearms shall be allowed on any site. t. No pets shall be allowed on any site. u. No smoking may occur except in designated areas. v. If ground disturbance is intended to be temporary and does not occur on cultivated and crop lands, perform topsoil segregation during construction activities to preserve the seed bank for restoration efforts. Store the segregated topsoil separate from the subsoil and restore segregated topsoil to its original location. **MM 4.4-16** Ground disturbance shall be mitigated at a 1.0 to 1.0 ratio (one-acre of new disturbance shall require one-acre of mitigation) except in Tier 1 areas that contain existing disturbance of 70% or greater which shall be mitigated at a 1.0 to 0.5 ratio (one-acre of new disturbance shall require one-half acre of mitigation), for the land included in the Site Plan. This compensatory mitigation requirement does not apply to construction on ground for which compensatory mitigation has already been provided, or on ground that has been previously disturbed (e.g., cleared of vegetation for other oil and gas extraction uses, existing unpaved roads, and existing unvegetated well pads). Ground disturbance activities that are authorized by permits or other written authorizations approved by the United States Fish and Wildlife Service and the California Department of Fish and Wildlife, which include avoidance and compensatory mitigation acreage requirements, may be used to satisfy this County compensatory mitigation ratio. Compensatory mitigation shall be required for the actual acreage of ground disturbance documented during the site plan review and completion process. New disturbance mitigation may be satisfied by one or a combination of the following measures: a. The recordation of a conservation easement or similar permanent, long-term conservation management agreement in a form acceptable to the County for land within the Project Area on land that has mitigation value. The easement lands may be owned by an Applicant or a third party under contract with an Applicant. Larger land areas may be placed under a conservation easement or similar agreement, and an Applicant may "draw down" the conserved land as needed to satisfy the acreage mitigation requirements for multiple site plan review conformity permits or other authorizations from the County for oil and gas activities. b. Acquisition of land preservation credits from a mitigation bank located within the Project Area which is owned by the County, on other lands approved by the County, or on lands approved for mitigation or conservation purposes by the United States Fish and Wildlife Service or the California Department of Fish and Wildlife. c. Removal of legacy oil and gas equipment, inclusive of compliance with applicable legal requirements (e.g., well plugging and abandonment requirements under state or federal regulations), restoration of the surface grade to be consistent with surrounding lands,		

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		complete a reseeding effort using native species, and notification of the site owner (if not the Applicant) of the completion of the removal and grading restoration work. d. Enhancement or restoration of existing habitat on lands already subject to a conservation easement or similar agreement, or which become subject to a conservation easement or similar agreement subsequent to the certification of this Environmental Impact Report, provided that such activities are covered in a permit or authorization, conservation plan, Habitat Conservation Plan, or Natural Community Conservation Plan, approved by the United States Fish and Wildlife Service or the California Department of Fish and Wildlife. e. Payment of a biological resources mitigation fee for the acquisition and management of mitigation lands, legacy equipment removal, and/or land enhancement already subject to conservation easements or a similar agreements under the terms of any biological resource mitigation program that is adopted by Kern County and approved by the United States Fish and Wildlife Service or the California Department of Fish and Wildlife. The County shall coordinate with the United States Fish and Wildlife Service or the California Department of Fish and Wildlife to identify priority conservation areas and potential conservation partners and funding sources to increase the efficiency and effectiveness of mitigation fee expenditures.		
Impact 4.4-2 Have a Substantial Adverse Effect on Any Riparian Habitat or Other Sensitive Natural Community Identified in Local or Regional Plans, Policies, Regulations, or by the California Department of Fish and Wildlife or the United States Fish and Wildlife Service	Potentially significant	Implement MM 4.4-1 through 4.4.18, described above, and dust control, spill and hazardous material avoidance and containment, and surface and subsurface water quality and hydrology mitigation measures. **MM 4.4-17** Pre-disturbance surveys shall be conducted by a qualified biologist during the appropriate periods for detecting Sensitive Natural Communities that could occur within the Project Area. The surveys shall be completed consistent with applicable protocols approved by the United States Fish and Wildlife Service and/or the California Department of Fish and Game, including the Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities (California Department of Fish and Wildlife 2009). The qualified person shall map and identify all sensitive natural communities, including riparian communities that occur in or within 100 feet of any new disturbance area. The site plan for the proposed activity shall identify waters, wetlands, resources subject to section 1600 of the CFGC, and other riparian habitats that occur in and within 100 feet of the disturbance area. **MM 4.4-18** No land disturbance activity in any Sensitive Natural Community that requires a state or federal permit, including state or federally regulated wetlands and waters, shall occur unless the activity is specifically authorized by the issuance of permits or approvals as required by state and federal law. This provision is not intended to restrict survey activities or restrict permit approvals for such disturbance activities. However, no new wells, tanks, sumps or ponds shall be constructed within 50 feet of federal or state waters or wetlands.	Less than significant	All Tiers
Impact 4.4-3 Have a Substantial Adverse Effect on Federally Protected Wetlands as Defined by Section 404 of the Clean Water Act (Including, but Not Limited to, Marsh, Vernal Pool, Coastal, etc.) through Direct Removal, Filling, Hydrological Interruption, or Other Means	Potentially significant	Implementation of the Biological Resources mitigation measures would ensure that oil and gas activities would not disturb state or federally regulated wetlands and waters unless the activity is specifically authorized by the issuance of permits or approvals as required by state and federal laws and that activities in the vicinity of wetlands and water bodies would not adversely disturb them. Other mitigation measures identified in this Environmental Impact Report would further reduce potential state or federally jurisdictional wetland and waters, including dust control, spill and hazardous material avoidance and containment, surface and subsurface water quality and hydrology, mitigation measures.	Less than significant	All Tiers
Impact 4.4-4 Interfere Substantially with the Movement of any Native Resident or Migratory Fish or Wildlife	Potentially significant	Implementation of the Biological Resources mitigation measures would reduce wildlife movement impacts. Other mitigation measures identified in this Environmental Impact Report to further reduce wildlife movement impacts, include dust control, nighttime lighting, noise controls, spill and hazardous material avoidance and containment,, and surface and subsurface water quality and hydrology (including but not limited to Kern River and Poso Creek channels), measures.	Less than significant	All Tiers

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
Species, or with Established Native Resident or Migratory Wildlife Corridors, or Impede the Use of Native Wildlife Nursery Sites				
Impact 4.4-5 Conflict with Any Local Policies or Ordinances Protecting Biological Resources, Such as a Tree Preservation Policy or Ordinance	Potentially significant	**MM 4.4-19** In the event that new disturbance would occur at a site within an oak woodland area as defined in Section 1.10.10 of the Kern County General Plan Land Use, Open Space and Conservation Element (10% or greater oak tree cover), the Applicant shall comply with the minimum 30% canopy retention standard in Section 1.10.10 KK (a). Impacts to oak trees in other locations, and in locations that meet the criteria for an oak woodland area, shall be avoided to the maximum extent practicable, including modification of the disturbance area, if feasible, to avoid existing oak trees within a site.	Less than significant	All Tiers
Impact 4.4-6 Conflict with the Provisions of an Adopted Habitat Conservation Plan, Natural Community Conservation Plan, or Other Approved Local, Regional, or State Habitat Conservation Plan	Potentially significant	**MM 4.4-20** Applicants shall fund through the Site Conformity Review administrative fee, preparation by Kern County of, an annual report describing the Project's ground disturbance acreage, and the acreage of compensatory mitigation lands, in each sub-area. <u>For Covered Activities within areas included in proposed HCPs, the requirements of MM 4.4-1 – 4.4-19 may be superseded by specific requirements imposed by USFWS as part of approval of a federal incidental take permit (e.g., under Section 10 or Section 7 of the Endangered Species Act), or by CDFW as part of approval of a state incidental take permit (e.g., under the Fish and Game Code), provided that USFWS (in the case of a federal incidental take permit) or CDFW (in the case of a state incidental take permit) concludes in writing that such requirements provide equivalent or greater protection than MM 4.4-1 – 4.4-19 (or any subset thereof).</u>	Less than significant	All Tiers
Impact 4.4-7 Cumulative Impact to Biological Resources	Potentially significant	Implement MM 4.4-1 through MM 4.4-20, as described above.	Significant and unavoidable	All Tiers
Cultural Resources				
Impact 4.5-1 Cause a Substantial Adverse Change in the Significance of a Historical Resource as Defined in Section 15064.5	Potentially significant	**MM 4.5-1** Prior to initiating ground disturbance activities for an activity for which a conformity review is required, the Applicant shall: a. Provide an archival records search completed by a qualified archaeologist. This shall include an examination of the California Historical Resources Information Files at the Southern San Joaquin Valley Information Center, California State University, Bakersfield, and a search of the Native American Heritage Commission Sacred Lands Files, Sacramento. The Applicant may rely on a previously performed records search for subsequent ground disturbing activities. b. If an application location has been previously surveyed and no cultural resources have been recorded on it, no further cultural resources studies shall be required. c. Implement either: 1. If a site plan includes land that has experienced 100% ~~of~~ previous ground-surface disturbance, or is within a section with 300 or more existing oil wells or other agricultural, industrial or urban uses, and the records searches indicate that ~~the parcel has been previously surveyed and~~ no cultural or Native American resources are known on it, no further cultural resources studies shall be required. All other application locations shall be subject to intensive (100%) pedestrian ground-surface survey (Phase I survey/Class III inventory) by qualified archaeologists. The Applicant may rely on a previously performed ground surface survey for subsequent ground disturbing activities; or	Less than significant	All Tiers

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		2. If an application location has not been previously surveyed based on the records search information, an intensive (100%) pedestrian ground-surface survey (Phase I survey/Class III inventory) by qualified archaeologists shall be required. d. All prehistoric/Native American archaeological sites, whether identified during the records searches or during the intensive survey, shall be demarcated by a qualified archaeologist, fenced by the Applicant, and preserved in place. e. Historical (Euro-American) archaeological sites that are potentially eligible for listing in the National Register of Historic Places shall be evaluated by a qualified archaeologist and must meet the requirements of the National Historic Preservation Act of 1966 in order to qualify. Qualifying sites, structures and equipment that are identified during the records search or field survey shall be fenced and preserved in open-space, removed and curated, or treated using appropriate data recovery procedures. f. Historical (Euro-American) archaeological site types relating to oil and gas activities that have been determined Not Significant/Unique shall require no archaeological study or treatment. g. All oil and gas industry employees conducting work in the area identified on the Conformity Site Plan shall complete Worker Environmental Awareness Program training including training dedicated to cultural resources protection.		
Impact 4.5-2 Cause a Substantial Adverse Change in the Significance of an Archaeological Resource as Defined in Section 15064.5	Potentially significant	Implement MM 4.5-1, as described above.	Less than significant	All Tiers
Impact 4.5-3 Directly or Indirectly Destroy a Unique Paleontological Resource or Site or Unique Geologic Feature	Potentially significant	**MM 4.5-2** As part of any Worker Environmental Awareness Program training, all construction personnel shall be trained regarding the recognition of possible buried paleontological resources and protection of paleontological resources during construction, prior to the initiation of construction or ground-disturbing activities. Training shall inform construction personnel of the procedures to be followed upon the discovery of paleontological materials. All personnel shall be instructed that unauthorized collection or disturbance of fossils is unlawful. **MM 4.5-3** All permits for new wells that use Enhanced Oil Recovery or Well Stimulation methods shall pay a mitigation fee of $50 per well shall be paid to the Buena Vista Museum to fund the continued education and curation of paleontological resources and provide educational support regarding the paleontological history of the region.	Less than significant	All Tiers
Impact 4.5-4 Disturb any Human Remains, Including Those Interred Outside of Formal Cemeteries	Potentially significant	**MM 4.5-4** In the event archaeological materials are encountered during the course of ground disturbance or construction, the Project operator/contractor shall cease any ground disturbing activities within 50 feet of the find. The qualified archaeologist shall evaluate the significance of the resources and recommend appropriate treatment measures. Per California Environmental Quality Act Guidelines Section 15126.4(b)(3), Project redesign and preservation in place shall be the preferred means to avoid impacts to significant historical resources. Consistent with California Environmental Quality Act Guidelines Section 15126.4(b)(3)(C), if it is demonstrated that resources cannot be avoided, the qualified archaeologist shall develop additional treatment measures in consultation with the County, which may include data recovery or other appropriate measures. The Planning and Community Development Department shall consult with appropriate Native American representatives in determining appropriate treatment for unearthed cultural resources if the resources are prehistoric or Native American in nature. If after consultation it is deemed appropriate, archaeological materials recovered during any investigation shall be curated at an accredited curation facility. The qualified archaeologist shall prepare a report documenting evaluation and/or additional treatment of the resource. A copy of the report shall be provided to the Kern County Planning and Community Development Department and to the Southern	Less than significant	All Tiers

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		San Joaquin Valley Information Center. In the event archaeological materials are encountered, in Tier 2 the surface owner shall be notified immediately. **MM 4.5-5** If human remains are uncovered during Project construction, the Applicant shall immediately halt all work, contact the Kern County Coroner to evaluate the remains, and follow the procedures and protocols set forth in Section 15064.4 (e)(1) of the California Environmental Quality Act Guidelines. The Kern County Planning and Community Development Department shall be notified concurrently. If the County Coroner determines that the remains are Native American, the Project proponent shall contact the Native American Heritage Commission, in accordance with Health and Safety Code Section 7050.5, subdivision (c), and Public Resources Code 5097.98 (as amended by Assembly Bill 2641). The Native American Heritage Commission shall designate a Most Likely Descendant for the remains per Public Resources Code 5097.98. Per Public Resources Code 5097.98, the applicant, in coordination with the landowner, shall ensure that the immediate vicinity, according to generally accepted cultural or archaeological standards or practices, where the Native American human remains are located, is not damaged or disturbed by further development activity until the discussion and conference with the Most Likely Descendant has occurred, if applicable, taking into account the possibility of multiple human remains. If the remains are determined to be neither of forensic value to the Coroner, nor of Native American origin, provisions of the California Health and Safety Code (7100 et. seq.) directing identification of the next-of-kin will apply. In the event human remains are uncovered, in Tier 2 the surface owner shall be notified immediately.		
Impact 4.5-5 Cumulative Impacts to Historical, Archaeological, or Paleontological Resources and Human Remains	Potentially significant	Implement MM 4.5-1 through MM 4.5-5, as described above.	Significant and unavoidable	
Geology and Soils				
Impact 4.6-1 Expose People or Structures to Substantial Adverse Effects, Including the Risk of Loss, Injury, or Death Involving the Rupture of a Known Earthquake Fault	Potentially significant	**MM 4.6-1** Prior to beginning a ground disturbance activity, the Applicant shall comply with the following regulations (as applicable) and confirm compliance in its Site Plan Conformity Review application documentation: a~~h~~. Alquist-Priolo Earthquake Fault Zoning Act. b~~i~~. California Building Code. c~~j~~. Division of Oil Gas and Geothermal Resources regulations, as identified in the California Code of Regulations, Title 14, Division 2, Chapter 4, including regulations implementing Senate Bill 4 as applicable. If hydraulic fracturing is conducted for any well associated with the Site Plan Conformity Review, the Applicant shall comply with requirements to monitor the California Integrated Seismic Network for indication of an earthquake of magnitude 2.7 or greater for the period of 10 days following the end of hydraulic fracturing. The earthquake search radius shall be consistent with Division of Oil Gas and Geothermal Resources Senate Bill 4 regulations. The data will be submitted to Division of Oil Gas and Geothermal Resources for an evaluation of the risks and actions consistent with the Division of Oil Gas and Geothermal Resources Senate Bill 4 regulations. In approving a well stimulation treatment permit that would authorize, within an urban area (i.e., an area with a population over 50,000, as defined by the U.S. Census Bureau), the emplacement of well stimulation fluids into an oil or gas formation that has not been previously been subject to well stimulation activity, and/or into an oil or gas formation for which Division of Oil Gas and Geothermal Resources does not yet possess adequate information about formation fracture geometries, Division of Oil Gas and Geothermal Resources shall impose a permit condition requiring that the applicant conduct ground monitoring to characterize as-	Less than significant	All Tiers

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		built fracture geometries prior to, during, and post-hydraulic fracturing. Monitoring shall also be conducted during fracturing treatments by use of applicable microseismic fracture mapping, tilt measurements, tracers, or proppant tagging. Copies of ground monitoring records shall be provided to the County and Division of Oil Gas and Geothermal Resources for review and approval within 30 days of well stimulation treatment. d~~k~~. Additionally, the Applicant shall: 1. Avoid placement of structures intended for human occupancy on or within 50 feet of any active faults designated and mapped pursuant to the Alquist-Priolo Earthquake Fault Zoning Act where the fault breaks the surface. 2. Have a professional geologist prepare a fault rupture hazard evaluation according to guidelines in California Geological Survey Special Publication 42, 2007 for new developments with structures that are intended for human occupancy. 3. All Class II injection wells shall be authorized, and shall comply with all applicable legal requirements, Underground Injection Control Program Approval permit conditions, and be operated according to the California Code of Regulations Title 14 requirements, as described in the mitigation measures for Hydrology and Water Quality. 4. Ensure that active fault trace placement restrictions are in place for all permanent tanks and storage reservoirs used to store, treat, or transport hazardous materials or materials that are considered pollutants to surface water and groundwater, located in an Earthquake Fault Zone. Ensure that all newly installed pipelines subject to 49 Code of Federal Regulations (CFR) Parts 192 and 195, are engineered and constructed in compliance with the requirements of the pipeline safety regulations,as set forth by the Pipeline Hazardous Materials Safety Administration (PHMSA). All other newly installed pipelines that transport gas or hazardous liquids are ~~designed~~ to be constructed, tested operated and maintained in accordance with good oilfield practice and applicable standards set forth and approved by the State Oil and Gas Supervisor. Ensure that all new pipelines designated for or water used for fire suppression are engineered and constructed in compliance with the requirements of California Building Code Chapter 9, Fire Protection Systems, and the California Fire Code to address potential fault rupture displacements. **MM 4.6-2** All structures designed for human occupancy shall be designed to withstand substantial ground shaking in accordance with applicable California Building Code seismic design standards and Kern County Building Code.		
Impact 4.6-2 Expose People or Structures to Substantial Adverse Effects, Including the Risk of Loss, Injury, or Death Involving Strong Seismic Ground Shaking	Potentially significant	Implement MM 4.6-1 and MM 4.6-2, as described above.	Less than significant	All Tiers
Impact 4.6-3 Expose People or Structures to Substantial Adverse Effects, Including the Risk of Loss, Injury, or Death Involving Seismic-Related Ground Failure, Including Liquefaction	Potentially significant	Implement MM 4.6-1 and MM 4.6-2, as described above.	Less than significant	All Tiers

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
Impact 4.6-4 Expose People or Structures to Substantial Adverse Effects, Including the Risk of Loss, Injury, or Death Involving Landslides	Potentially significant	**MM 4.6-3** Operators shall avoid siting wells or accessory equipment and facilities on slopes greater than 30% unless the Applicant determines that mineral recovery is infeasible from a different location, and site-specific Professional Engineering certification is submitted concluding that the new equipment will not cause landslides.	Less than significant	All Tiers
Impact 4.6-5 Result in Substantial Soil Erosion or the Loss of Topsoil	Potentially significant	Implement stormwater mitigation measures, as described in Section 4.9, Hydrology and Water Quality.	Less than significant	All Tiers
Impact 4.6-6 Be Located on a Geological Unit or Soil That is Unstable, or That Would Become Unstable as a Result of the Project, and Potentially Result in On- or Off-site Landslide, Lateral Spreading, Subsidence, Liquefaction, or Collapse	Potentially significant	Implement MM 4.6-3and MM 4.6-4, as described above, and the following: **MM 4.6-4** The Applicant shall confirm compliance with, and shall implement, a Division of Oil Gas and Geothermal Resources approved re-pressuring plan as required by Division 3, Chapter 1, Article 5.5 of the Public Resources Code, commencing with Section 3315. In developed areas where subsidence is confirmed or suspected, subsidence monitoring shall be required using Synthetic Aperture Radar studies and/or other methods as approved by the Division of Oil Gas and Geothermal Resources to quantify and evaluate the potential effect on the area.	Less than significant	All Tiers
Impact 4.6-7 Be Located on Expansive Soil, as Defined in Table 18-1-B of the Uniform Building Code (1994), Creating Substantial Risks to Life or Property	Potentially significant	**MM 4.6-5** The Applicant shall avoid building infrastructure on expansive soils unless the Applicant determines that mineral recovery is infeasible from a different location, and site-specific Professional Engineering certification is submitted concluding that the new equipment will not cause substantial risks to life or property.	Less than significant	All Tiers
Impact 4.6-8 Have Soils Incapable of Adequately Supporting the Use of Septic Tanks or Alternative Wastewater Disposal Systems Where Sewers Are Not Available for the Disposal of Wastewater	Less than significant	Implement MM 4.6-1, as described above.	Less than significant	All Tiers
Impact 4.6-9 Cumulative Impacts to Geologic and Soil Resources	Potentially significant	Implement MM 4.6-1 through MM 4.6-5, as described above.	Less than significant	All Tiers
Green House Gas Emissions				
Impact 4.7-1	Potentially significant	**MM 4.7-1** An Applicant covered by the Cap-and-Trade Program with permitted stationary sources shall comply with the Cap-and-Trade regulation (~~e.g.,~~ especially by ~~reducing greenhouse gas emissions within their facilities or by~~ surrendering greenhouse gas allowances~~,~~ or offset credits~~, or other compliance instruments to offset the greenhouse gas increases~~ to satisfy their compliance obligation under the Program), and implement Best Performance Standards applicable to greenhouse gas reduction for Components at Light Crude Oil and Natural Gas	Less than significant	All Tiers

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
Generate Greenhouse Gas Emissions, Either Directly Or Indirectly, that may have a Significant Impact on the Environment		Production, Natural Gas Processing Facilities, Petroleum Refineries, Gas Liquids Processing Facilities, and Chemical Plants (San Joaquin Valley Air Pollution Control District 2010), Thermally Enhanced Oil Recovery Wells (San Joaquin Valley Air Pollution Control District 2010a), Steam Generators (San Joaquin Valley Air Pollution Control District 2010b), and Front-line Organic Liquid Storage Tanks (San Joaquin Valley Air Pollution Control District 2011). **MM 4.7-2** Each Applicant covered by the Cap-and-Trade Program shall comply with applicable Cap and Trade regulations, and other applicable greenhouse gas emission control and reduction regulations as these may be adopted or amended over time, to reduce, avoid, mitigate and/or sequester greenhouse gas emissions from Project-related air emissions. **MM 4.7-3** Each Applicant shall implement methods to recover for reuse or destroy methane existing in associated gas and casinghead gas, as follows: a. Recover all associated gas produced from the reservoir via new wells, regardless of the well type, except for gas produced from wildcat and delineation wells or as a result of start-up, shutdown and maintenance activities (whether planned or unplanned), system failures, and emergencies in accordance with San Joaquin Valley Air Pollution Control District regulations (Rule 4401 and 4409), as this may be amended over time. b. Compliance with the expected California Air Resources Board methane regulation. **MM 4.7-4** Each Applicant shall offset all greenhouse gas emissions not covered by the Cap-and-Trade program or other mandatory greenhouse gas emission reduction measures through Applicant reductions of greenhouse gas emissions as verified by Kern County, through acquisition of offset credits from the California Air Pollution Control Officers Association Exchange Register or other third party greenhouse gas reductions, with consultation as to the validity of methodology for calculating reductions verified by the San Joaquin Valley Air Pollution Control District and accepted by Kern County, or through inclusion in an Emission Reduction Agreement, to offset Project-related greenhouse gas emissions that are not included in the Cap and Trade program to assure that no net increase in greenhouse gas emissions from the Project.		
Impact 4.7-2 Conflict with any Applicable Plan, Policy, or Regulation Adopted for the Purpose of Reducing the Emissions of Greenhouse Gases	Potentially significant	Implement MM 4.7-3, as described above.	Significant and unavoidable	All Tiers
Impact 4.7-3 Cumulative Greenhouse Gas Emissions Impacts	Potentially significant	Implement MM 4.7-4, as described above.	Significant and unavoidable	All Tiers

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
Hazards and Hazardous Materials				

Impact 4.8-1 Create a Significant Hazard to the Public or the Environment through the Routine Transport, Use, or Disposal of Hazardous Materials	Potentially significant	**MM 4.8-1**	The Applicant shall provide a comprehensive Worker Environmental Awareness Program to the County with its first Site Plan Conformity Review permit application in each calendar year. The program shall include all training requirements identified in Applicant Best Management Practices and mitigation measures, and include training for all field personnel (including Applicant employees, agents and contractors). The Worker Environmental Awareness Program shall include protocols and training for responding to and handling of hazardous materials and hazardous waste management, and emergency preparedness, release reporting, and response requirements. In Tier 2, the Worker Environmental Awareness Program shall be provided to the surface owner at the time of the application pathway process so the surface owner may educate employees as well.	Less than significant	All Tiers
		MM 4.8-2	The Applicant shall arrange for transportation, storage and disposal of all hazardous materials in compliance with the Hazardous Materials Transportation Act. Drivers transporting hazardous materials or wastes should follow the measures recommended by the Federal Motor Carrier Safety Administration for avoiding roll-over accidents. To avoid roll-over accidents involving cargo tank trucks: a. Avoid sudden movements that may lead to roll-overs. b. Control your load in turns and on straight roadways. c. Identify high risk areas on roads. d. Remain alert and attentive behind the wheel. e. Control speed and maintain proper “speed cushions.”		
		MM 4.8-3	The Applicant shall implement the following practices: a. Construction activities shall be conducted to allow for easy clean-up of spills. Construction crews shall have sufficient tools, supplies, and absorbent and barrier materials to contain and recover spilled materials. b. Fuels and lubricants shall be stored only at designated staging areas. Fuel and lubricant tanks shall have appropriate secondary spill containment (e.g., curbs). Compliance with laws and regulations is required, including compliance with hazardous materials and hazardous waste storage laws, as applicable. c. Storage of fuel and lubricants in the staging area shall be at least 100 feet away from the edge of water bodies. Refueling and lubrication of equipment shall be restricted to upland areas at least 100 feet away from stream channels and wetlands. d. Any fuel truck shall carry an oil spill response kit and spill response equipment at all times. e. Applicants shall be required to perform all routine equipment maintenance at the well pad or other suitable locations (i.e., maintenance yards), and promptly collect and lawfully dispose of wastes in compliance with existing regulatory requirements. f. Berms and/or dikes (secondary containment) shall be constructed around the permanent above-ground bulk tanks and the foundations shall be installed with a passive leak detection system, so that potential spill materials shall be contained and collected in specified areas isolated from any water bodies. Tanks shall not be placed in areas subject to periodic flooding or washout. Compliance with laws and regulations is required, including compliance with hazardous materials and hazardous waste storage laws as applicable, including for secondary containment, such as Division of Oil, Gas and Geothermal Resources regulation (Title 14, C.C.R. § 1773.1), which requires secondary containment in "an engineered impoundment such as a catch basin, which can include natural topographic features, that is designed to capture fluid released from a production facility." g. A sufficient supply of sorbent and barrier materials shall be maintained on construction sites consistent with the type and level of construction activities. Sorbent and barrier materials shall also be utilized to contain runoff from contaminated areas where appropriate. 1. Shovels and drums shall be stored at each well pad or be readily available. If small quantities of soil become contaminated, hand tools such as shovels or other appropriate tools, shall be used to collect the soil and the material shall be stored in storage drums. Large quantities of contaminated soil may be bio-remediated on-site or at a designated remediation facility, subject to government approval, or collected utilizing heavy equipment, and stored in drums or other suitable containers prior to disposal. Should contamination occur adjacent to staging areas as a result of runoff, shovels and/or heavy equipment shall be utilized to collect the contaminated material. Contaminated soil shall be disposed of in accordance with state and federal regulations.		

		2. Above-ground tanks, valves and other equipment shall be visually inspected monthly and when the tank is refilled. Inspection records shall be maintained. Applicants shall periodically check tanks for leaks or spills. 3. Drain valves on all tanks shall be locked to prevent accidental or unauthorized discharges from the tank. 4. Equipment maintenance shall be conducted in staging areas or other suitable locations (i.e., maintenance shops or yards) to the extent practical. 5. The Applicant shall maintain equipment in operating condition to reduce the likelihood of fuel or oil line breaks and leakage. Any vehicles with chronic or continuous leaks shall be removed from the site and repaired before being returned to operation. h~~6~~. Applicants are encouraged, but not required, to use an alternate to silica sand as a proppant, after Division of Oil Gas and Geothermal Resources has determined that such an alternative does not introduce new hazards. **MM 4.8-4** The Applicant shall implement the following measures to prevent, repair, and remediate accidental leaks and spills from oil and gas operations. a. The Applicant shall identify gas, oil and produced water pipelines to be used for each new or reworked well site in its Site Plan, and shall show the location of any sensitive receptor located within 300 feet of any such pipeline. For any pipeline located within 300 feet of a sensitive receptor, the Applicant shall present evidence that each such pipeline has been integrity tested using pressure testing or other accepted test methods by a qualified professional within a two-year period prior to submittal of the Site Plan, and shall provide a copy of the test result to the County. For all waste gas lines less than or equal to 4 inches in diameter, a Pipeline Management Plan shall be developed and implemented in accordance with Division of Oil Gas and Geothermal Resources regulations Title 14, Division 2, Chapter 4, Section 1774.2. The Pipeline Management Plan shall include: 1. A listing of information on each pipeline including, but not limited to: i. Pipeline type. ii. Grade. iii. Installation date of pipeline. iv. Design and operational pressure. v. Any leak, repair, inspection and testing history. 2. A description of the testing method and schedule for all pipelines. b. The Applicant shall notify the Kern County Environmental Health Division, Certified Union Program Agency (CUPA), surface landowner, and sensitive receptors located within 300 feet, of any hazardous materials/waste release ~~to the County~~ immediately upon discovery, and to other applicable agencies as required by other laws. The Applicant shall immediately contain the leak (e.g., by isolating or shutting down the leaking equipment), clean up contaminated media (e.g., soils), and repair the leak prior to recommencing operations. The Applicant shall report the status and progress of the leak repair and remediation work to the County and the CUPA on monthly intervals or predetermined intervals until the repair has been completed. Contaminated media shall be analyzed according to 22 C.C.R. §§ 66261.21-66261.24 for determination of appropriate hazardous waste disposal. Hazardous Waste Determination procedures are provided in 22 C.C.R. § 66262.11. c. As part of the Site Plan, the Applicant shall identify the location and right of way for all pipelines to be used for the transport of oil, gas, and produced water, including pipelines that intersect the main transport line, based on existing data and using commercially available technology, and, based on the results of this analysis, shall identify any sensitive receptors within 300 feet of the pipeline for purposes of complying with Mitigation Measure 4.8-4. Mechanical integrity testing of all such pipeline lengths within 300 feet of a sensitive receptor shall be required pursuant to Mitigation Measure 4.8.4-a~~1~~. d. If a release, identified pursuant to subsection (b), cannot be repaired or remediated within 48 hours, and has potential impact to sensitive receptors, the Applicant shall incur costs to sample and analyze the potentially affected area, which may include soil, groundwater, outdoor or indoor air of sensitive receptors within 300 feet of the leak. Applicant shall pay all temporary relocation costs (e.g., housing,		

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		food, and transportation) for any exposed sensitive receptor until such time as the leak has been repaired and post-indoor air testing has been completed, as confirmed by identified agency having oversight of the remediation. **MM 4.8-5** If, during grading or excavation work, the Applicant observes ~~visual or olfactory~~ evidence of contamination or if soil contamination is ~~otherwise~~ suspected, work near the excavation site shall be terminated, the work area cordoned off and appropriate health and safety procedures implemented for the location by the contractor's Health and Safety Officer. Samples shall be collected by a trained and qualified individual. Analytical data from suspected contaminated material shall be reviewed by the contractor's Health and Safety Officer. If the sample testing determines that contamination is not present, work may proceed at the site; however, if contamination is detected above regulatory limits, the Kern County Public Health Services Department shall be notified. All actions related to encountering unanticipated hazardous materials at the site shall be documented and submitted to the Kern County Public Health Services Department. **MM 4.8-6** The Applicant shall implement measures to prevent the release or accidental spillage of solid waste, garbage, construction debris, sanitary waste, industrial waste, naturally occurring radioactive materials, oil and other petroleum products, and other wastes into water bodies or water sources, including all applicable practices included in the most up-to-date versions of the following documents ~~shall be followed~~: *Exemption of Oil and Gas Exploration and Production Wastes From Federal Hazardous Waste Regulations (EPA 2002).* Equivalent industry standards such as Environmental Protection for Onshore Oil and Gas Productions and Leases (American Petroleum Institute 2009) and related standards may also be utilized, provided that a professional engineer, certified industrial hygienist or certified safety professional certifies to the County that such alternative standards are as or more protective of human health and the environment, as compared to the standards in the referenced Environmental Protection Agency manual. The determination of when and the extent to which a measure is "practical" is to be made by the Applicant; however, all of the below activities must comply with all applicable legal requirements, including federal and state laws and regulations, County ordinances, and the mitigation measures included in this Final EIR. a. Classify the various oil and gas exploration and production wastes for proper disposal as described in United States Environmental Protection Agency 2002, and in accordance with applicable California laws and regulations.. b. Size reserve pits properly to avoid overflows. c. Use closed loop mud systems when practical, particularly with oil-based muds. d. Review safety data sheets of materials used, and select less toxic alternatives when possible. e. Minimize waste generation, such as by designing systems with the smallest volumes possible (e.g., drilling mud systems). f. Reduce the amount of excess fluids entering reserve and production pits. g. Keep non-exempt wastes out of reserve or production pits. h. Design the drilling pad to contain stormwater and rigwash. i. Recycle and reuse oil-based muds and high density brines, when practical, and when such recycling and reuse complies with hazardous waste laws and recycling laws. j. Perform routine equipment inspections and maintenance to prevent leaks or emissions. k. Reclaim oily debris and tank bottoms when practical, and when such reclamation complies with hazardous waste laws and recycling laws. l. Minimize the volume of materials stored at facilities. m. Construct adequate berms around materials and waste storage areas to contain spills.		

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		n. Perform routine inspections of materials and waste storage areas to locate damaged or leaking containers. o. Train personnel to use sensible waste management practices. **MM 4.8-7** Conduct exploration and development activities as described in *Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development The Gold Book* (Bureau of Land Management 2007) or equivalent industry standard such as Environmental Protection for Onshore Oil and Gas Production Operations and Leases (American Petroleum Institute 2009) and related standards. The following specific measures should be undertaken at a minimum: a. Sufficient impervious secondary containment, such as containment dikes, containment walls, and drip pans, should be constructed and maintained around all qualifying petroleum facilities, including tank batteries and separation and treating areas consistent with the Environmental Protection Agency's Spill Prevention, Control, and Countermeasures regulation (40 Code of Federal Regulations 112). The containment structure must have sufficient volume to contain, at a minimum, the content of the largest storage tank containing liquid hydrocarbons within the facility/battery and sufficient freeboard to contain precipitation, unless more stringent protective requirements are deemed necessary by the authorized officer. Drip pans should be routinely checked and cleaned of petroleum or chemical discharges and designed to prevent access by wildlife and livestock. b. Chemical containers should not be stored on bare ground, ~~exposed to the sun and moisture. Containers and labels are subject to degradation and punctured drums could leak contents on the ground. Chemical containers~~ and should be maintained in good condition and placed within secondary containment in case of a spill or high velocity puncture. c. Containment dikes are not to be constructed with topsoil or coarse, insufficiently impervious spoil material. Containment is strongly suggested for produced water tanks. Chemicals should be placed within secondary containment and stored so that the containers are not in contact with soil or standing water and product and hazard labels are not exposed to weathering. d. Maintain a clean well location. Remove trash, junk, and other materials not in current use. e. In approving a well stimulation treatment permit, the applicant shall include in the spill contingency plan required by Section 1722.9 of Title 14 of the California Code of Regulations a protocol for measuring and reporting earthquake and earth consequences that occur during the well stimulation process, for however many well stimulation treatments are proposed to occur simultaneously at any given time. The Spill Contingency Plan shall include requirements for adequate personnel and equipment that may be necessary to conduct post-earthquake inspection and repair plans to evaluate any damage that has occurred. The Spill Contingency Plan shall include spill prevention, control and countermeasure plans to address the hazardous substances associated with well stimulation activities. The post-earthquake inspection procedures shall ensure the integrity of the mechanical systems and well integrity of wells used for stimulation or wastewater injection and idle wells that might have become conduits for escaping fluids or gases. The plan shall include procedures describing the necessary steps to be taken after service is disrupted in order to make the facilities secure, operational and safe as soon as possible.		

		MM 4.8-8	Applicants shall use the appropriate American Petroleum Institute Standards, or other recognized sources imposing the same or equivalent standards, for their facility, such as the following: a. Use cements and well materials in well completions as described in Specifications for Cements and Materials for Well Cementing (American Petroleum Institute 2011). b. Prior to start-up of all new facilities, verify and prove the construction, installation, integration, testing, and preparation of systems have been completed as designed following the practices described in Facilities Systems Completion Planning and Execution (American Petroleum Institute 2013a). c. When the use of centralizers and stop-collars are required during well completion activities, follow the installation and testing requirements described in Recommended Practice for Centralizer Placement and Stop-collar Testing (American Petroleum Institute 2010a). d. Limit the environmental footprint of oil and gas exploration and production and reduce the incidence of releases of hazardous substances following the practices described in Environmental Protection for Onshore Oil and Gas Production Operations and Leases (American Petroleum Institute 2009). e. Minimize improper disposal by following the practices described in American Petroleum Institute Order No. G00004, Guidelines for Commercial Exploration and Production Waste Management Facilities (American Petroleum Institute 2001) or other recognized methods. These guidelines discuss the relevant regulations and permitting requirements; siting, construction, and technical consideration for various waste disposal options; as well as mitigation options. f. Minimize the environmental footprint of exploration and production activities following the practices described in Land Drilling Practices for Protection of the Environment (American Petroleum Institute 2010b) or other recognized sources. g. When pressure testing is required by State or federal law, prior to pressurizing or re-pressurizing petroleum product pipelines, ensure the integrity of pipelines following the practices described in Recommended Practice for the Pressure Testing of Steel Pipelines for the Transportation of Gas, Petroleum Gas, Hazardous Liquids, Highly Volatile Liquids, or Carbon Dioxide (American Petroleum Institute 2013b) or other recognized sources. h. To minimize releases of hazardous substances during oilfield construction, pit and sump operations shall be conducted in accordance with State Water Resources Control Board General Orders or appropriate Regional Water Quality Control Board waste discharge requirements or general orders.		
		MM 4.8-9	For all operations subject to the Oil and Gas Conformity Review, the Applicant shall comply with the pipeline management plan, including inspection and maintenance requirements, as administered by the Division of Oil Gas and Geothermal Resources pursuant to 14 California Code of Regulations 1774.		
		MM 4.8-16	The applicant shall not use any well stimulation fluid unless the applicant presents one of the following: 1. Safety Data Sheet that accurately describes the physical and chemical properties of the well stimulation fluid; or 2. Safety Data Sheets that accurately describe the physical and chemical properties of all chemical compounds in the well stimulation fluid; or 3. Toxicological report prepared by a qualified laboratory and/or the fluid vendor confirming the environmental profile of the well stimulation fluid is known; or 4. Results of an aquatic bioassay by a qualified laboratory confirming the environmental profile of the well stimulation fluid is known. For purposes of this mitigation measure, the term “environmental profile” means the physical and chemical properties of a compound that determine its risk to human health and the environment. This mitigation measure shall be superseded by any list of approved well stimulation treatment fluids, chemicals or additives published by the State of California or by any applicable State of California regulation pertaining to chemical use in well stimulation treatment.		

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
Impact 4.8-2 Create a Significant Hazard to the Public or the Environment through Reasonably Foreseeable Upset and Accident Conditions Involving the Release of Hazardous Materials into the Environment	Potentially significant	Implement MM 4.8-1 through MM 4.8-9, as described above, and **MM 4.8-10** The Applicant shall incorporate annual maintenance checks for leaks and corrosion that cause releases into current operations, maintenance, and inspection schedules as provided by the Division of Oil Gas and Geothermal Resources pursuant to 14 California Code of Regulations Sections 1774.1 and 1774.2, the Applicant shall visually inspect all above-ground pipelines for leaks and corrosion at least once per year, comply with the pipeline testing requirements included therein, shall maintain records of such inspections and testing; and shall make inspection and testing records available to the County for review upon request. **MM 4.8-11** As part of the Hazardous Materials Business Plan and the spill prevention, control, And countermeasures Plan, the Applicant shall require annual worker training requirements to: increase awareness of the most common types of failures and methods to avoid mistakes, shall maintain records of employee training, and shall make such records available to the County for review upon request. **MM 4.8-12** An Applicant who plans to perform cyclic steam injection activities above reservoir fracture pressures shall conduct such activities in accordance with the requirements set forth in the Division of Oil Gas and Geothermal Resources site-specific Project Approval Letter for the injection project. The following requirements from a Project Approval Letter for an injection project are examples of the types of conditions that would be triggered if a surface expression were to occur, though such conditions may be modified by the Division of Oil Gas and Geothermal Resources to reflect site-specific conditions and changing regulatory requirements. a. Cease cyclic steaming operations in accordance with the site-specific Project Approval Letter. Streaming can resume following the Division of Oil Gas and Geothermal Resources specifications outlined in the Project Approval Letter. b. All new or reactivated surface expressions that discharge oil in a reportable quantity shall be reported as an oil spill to the California Emergency Management Agency at (800) 852-7550. c. Any measures to address surface expressions from the well and associated Project shall be reviewed by the Division of Oil Gas and Geothermal Resources prior to initiating. d. Immediately control any water, steam, or oil flowing from a surface expression and contained. All discharged material shall be removed and disposed of in a manner approved by all state and local agencies. e. Cordon off and clearly mark all surface expressions to prevent inadvertent access. f. Conduct air sampling of any emissions associated to a recent surface expression in accordance to the local air board requirements to ensure a health hazard condition does not exist. g. Report immediately to the Division of Oil Gas and Geothermal Resources all surface expressions within 300 feet of the Project site. If the surface expression continues to flow after five days, all wells within a 300-foot radius shall cease steaming until the surface expression ceases to flow. If the surface expression continues to flow, the damage will be evaluated at the Supervisor's discretion, as assigned by Section 3106 of the Public Resources Code and existing laws and regulations. **MM 4.8-13** The Applicant shall comply with the Division of Oil Gas and Geothermal Resources requirements for assuring safe drilling and drill casing practices, well design, construction and well management requirements, blowout requirements, and all other provisions of 14 California Code of Regulations 1744 and other applicable Division of Oil Gas and Geothermal Resources regulations. The Applicant shall also reduce the incidence of well control loss by following the practices described in Recommended Practice for Well Control Operations (American Petroleum Institute 2012). **MM 4.8-14** The Applicant shall report contamination caused by oil and gas activities, including previously unknown injection wells, of a reportable quantity of hazardous substances, as specified in the Code of Federal Regulations Title 40 and/or the California Code of Regulations Titles 22 and 23, which is discovered during Project construction activities and operations. Notification must be made to Kern County	Less than significant	All Tiers

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		Environmental Health Division and the appropriate implementing regulatory agency that has responsibility or oversight of the specific contamination conditions. The Applicant shall remediate such contamination outside Tier 1 areas as required by the Kern County Environmental Health Division and the appropriate implementing regulatory agency.		
Impact 4.8-3 Emit Hazardous Emissions or Handle Hazardous or Acutely Hazardous Materials, Substances, or Waste within One-Quarter Mile of an Existing or Proposed School	Potentially significant	Implement toxic air contaminant setback mitigation measures, as described in Section 4.3, Air Quality, and **MM 4.8-15** The Applicant who intends to use acutely hazardous chemicals, including chemicals at or above the specified threshold quantities or a process which involves a Category 1 flammable gas or a flammable liquid with a flashpoint below 100 degrees Fahrenheit (37.8 degrees Celsius) on site in one location, in a quantity of 10,000 pounds (4535.9 kilograms) or more according to 8 California Code of Regulations Section 5189, Appendix A, within 0.25 mile from a school must: a. Evaluate whether other alternative chemicals that are less hazardous could be used. b. Ensure that the smallest quantity of necessary acutely hazardous materials are stored on site. c. Notify the occupants of the buildings when and where acutely hazardous materials would be used. d. Notify Kern County Fire Department about the details of the use of acutely hazardous materials (e.g., when, where, how much). e. Ensure that all employees who would contact the acutely hazardous materials are trained on the handling, transport, storage, and disposal of the materials. f. Ensure that all employees who would contact the acutely hazardous materials are trained and are provided the proper personal protective equipment. g. Ensure that all employees who would contact the acutely hazardous materials are trained and have exercised on the Spill Prevention, Control, and Countermeasures ~~P~~ Plan that addresses these chemicals.	Less than significant	All Tiers
Impact 4.8-4 Create a Hazard to the Public or the Environment as a Result of Being a Site that is Included on a List of Hazardous Materials Sites Compiled Pursuant to Government Code Section 65962.5	Potentially significant	Implement MM 4.8-14, as described above, and MM 4.8-17 and MM 4.8-18, as described under Impact 4.8-5.	Less than significant	All Tiers
Impact 4.8-5 For a Project Located within the Adopted Airport Land Use Compatibility Plan, Result in a Safety Hazard for People Residing or Working in the Area	Potentially significant	**MM 4.8-17** The Applicant shall determine whether any proposed construction or alteration meets requirements for notification of the Federal Aviation Administration. If a proposed construction or alteration is found to require notification, the Applicant shall notify the Federal Aviation Administration and request that the Federal Aviation Administration issue a Determination of No Hazard to Air Navigation. If the Federal Aviation Administration determines that the construction or alteration would result in a potential hazard to air navigation, the Applicant would be required to work with the Federal Aviation Administration to resolve any adverse effects or airport operations. The Applicant shall notify the Federal Aviation Administration and the nearest Airport, by completing and submitting Federal Aviation Administration Form 7460-1 if oil and gas related exploration, production, or associated development activities are planned that meet one or more of the following criteria: a. Any construction or alteration exceeding 200 feet above ground level. b. Any construction or alteration within 20,000 feet of all public use airports except Poso-kern Airport which exceeds a 100:1 surface from any point on the runway.	Less than significant	All Tiers

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		c. Any construction or alteration within 10,000 feet of the Poso-Kern Airport which exceeds a 50:1 surface from any point on the runway. d. Any construction or alteration within 5,000 feet of a public use heliport which exceeds a 25:1 surface. e. When requested by the Federal Aviation Administration. f. Any construction or alteration located on a public use airport or heliport regardless of height or location. **MM 4.8-18** The Applicant shall determine the distance from the proposed operation to the nearest boundary of the Joint Service Restricted R-2508 Complex, using a map of this Complex provided by the County. The Applicant shall notify the Joint Service Restricted R2508 Complex representative identified by the County if oil and gas related exploration, production, or associated development activities are planned that meet one or more of the following criteria: a. Any structure within 75 miles of the R-2508 Complex that is greater than 50 feet tall. b. Any project within 50 miles of the R-2508 Complex that emit radio and communication frequencies. c. Any project that would create environmental impacts such as visibility or elevated obstructions within 25 miles of the R-2508 Complex. **MM 4.8-19** All oil and gas related development activities shall review the Kern County Airport Land Use Compatibility Plan for compliance with all applicable policies.		
Impact 4.8-6 Result in Safety Hazard for People Residing or Working in Project Area within Vicinity of a Private Airstrip	Less than significant	None required.	Less than significant	All Tiers
Impact 4.8-7 Impair Implementation of, or Physically Interfere with, an Adopted Emergency Response Plan or Emergency Evacuation Plan	Less than significant	None required.	Less than significant	All Tiers
Impact 4.8-8 Expose People or Structures to a Significant Risk of Loss, Injury, or Death Involving Wildland Fires, Including Where Wildlands are Adjacent to Urbanized Areas or Where Residences are Intermixed with Wildlands	Less than significant	**MM 4.8-20** The Applicant is required to implement the following measures: a. Comply with Kern County Fire Codes. b. Maintain firefighting apparatus and supplies required by the Kern County Fire Department. c. Maintain of a list of all relevant fire-fighting authorities for each work site. d. Have available equipment to extinguish incipient fires and or construction of a fire break, such as: chemical fire extinguishers, shovels, axes, chain saws, etc. e. Carry water or fire extinguishers and shovels in non-passenger vehicles in the field. f. Have and maintain an adequate supply of fire extinguishers for welding, grinding, and brushing crews. g. Use available resources to protect individual safety and to contain any fire that occurs and notify local emergency response personnel. h. Remove any flammable wastes generated during oil and gas activities regularly.	Less than significant	All Tiers

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		i. Store all flammable materials used in oil and gas activities away from ignition sources and in approved containers. j. Allow smoking only in designated smoking areas. k. Prohibit smoking where flammable products are present and when the fire hazard is high. Train personnel regarding potential fire hazards and their prevention. l. All internal combustion engines, stationary and mobile, shall be equipped with spark arresters. Spark arresters shall be in good working order. m. Light trucks and cars with factory-installed (type) mufflers shall be used only on roads where the roadway is cleared of vegetation. Said vehicle types shall maintain their factory-installed (type) muffler in good condition. n. Fire rules shall be posted on the Project bulletin board at the contractor's field office and areas visible to employees. o. Equipment parking areas and small stationary engine sites shall be cleared of all extraneous flammable materials. p. Personnel shall be trained in the practices of the Fire Safety Plan relevant to their duties. Construction and maintenance personnel shall be trained and equipped to extinguish small fires in order to prevent them from growing into more serious threats. **MM 4.8-21** The Applicant should restrict the use of chainsaws, chippers, vegetation masticators, grinders, tractors, torches, and explosives at its locations, and ensure the sites where this equipment is used are equipped with portable or fixed fire extinguishers and/or a water tank, with hoses, fire rakes, and other tools to extinguish and or control incipient stage fires. The Worker Environmental Awareness Program shall include fire prevention and response training for workers using these tools.		
Impact 4.8-9 Generate Vectors or Have a Component that Includes Agricultural Waste Exceeding Adopted Qualitative Thresholds	Less than significant	Implement dust control and Valley Fever education and mask measures as described in Section 4.3, Air Quality, and **MM 4.8-22** Applicants shall ensure that trash is stored in closed containers and removed from the site at regular intervals. Open containers shall be inverted and construction ditches shall not be allowed to accumulate water. Construction and maintenance operations shall not generate standing water. Naturally occurring depressions, drainages, or pools at the site shall not be drained or filled without consulting with the appropriate resource agency (Kern County, United States Army Corps of Engineers, United States Fish and Wildlife Service, California Department of Fish and Wildlife) as applicable, and obtaining the appropriate permits.	Less than significant	All Tiers
Impacts 4.8-10 Contribute to Cumulative Hazards and Hazardous Materials Impacts	Potentially significant	Implement MM 4.8-1 through MM 4.8-22, as described above, and dust control and toxic air contaminant setback mitigation measure, as described in Section 4.3, Air Quality, risk reduction measures, as described in Section 4.6, Geology and Soils, and mitigation measures to maintain water quality, as described in Section 4.9, Hydrology and Water Quality.	Less than significant	All Tiers
Hydrology and Water Quality				
Impact 4.9-1 Violate any Water Quality Standards or Waste Discharge Requirements	Potentially significant	**MM 4.9-1** The Applicant shall comply with all applicable federal, state, regional and local agency water quality protection laws and regulations, and commonly utilized industry standards, including (where applicable) obtaining coverage under the stormwater construction general permit and industrial general permit issued by the State Water Resources Control Board and complying with industry stormwater management standards for construction and operational activities. The applicant shall obtain all required permits from Division of Oil Gas and Geothermal Resources, and such permits shall include measures that will safeguard protected groundwater with appropriate casing, seal and related down-hole technical specifications.	Less than significant	All Tiers

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		MM 4.9-2 A. Oil and Gas activities in Tier 1~~1~~ shall comply with the following:~~:~~ 1. In areas subject to National Pollutant Discharge Elimination System stormwater permitting requirements, project applicants shall file a Notice of Intent to the State Water Resources Control Board to comply with the statewide General Permit for Discharges of Stormwater Associated with Construction Activities (Construction General Permit State Water Resources Quality Control Board Order No 2009-009-DWO) prior to undertaking all ground-disturbing activities greater than one acre and shall prepare and implement a Stormwater Pollution Prevention Plan for construction activities on the Project site in accordance with the Construction General Permit. For facilities requiring coverage under the Construction General Permit, the site specific Stormwater Pollution Prevention Plan shall include measures to achieve the following objectives: (1) all pollutants and their sources, including sources of sediment associated with construction activity are controlled; (2) all non-stormwater discharges are identified and either eliminated, controlled and treated, (3) site Best Management Practices are effective and result in the reduction or elimination of pollutants in stormwater discharges and authorized non-stormwater discharges from construction activity and (4) stabilization Best Management Practices to reduce or eliminate pollutants after construction are completed. The Stormwater Pollution Prevention Plan shall be prepared by a qualified preparer and shall include the minimum Best Management Practices required for the identified risk level. The Stormwater Pollution Prevention Plan shall include a construction site monitoring program that identified requirements for dry weather visual observations of pollutants at all discharge locations and , as appropriate, depending on the project risk level, sampling of site effluent and receiving waters. A qualified Stormwater Pollution Prevention Plan practitioner shall be responsible for implementing and all monitoring for the Best Management Practices as well as all inspection, maintenance and repair activities at the project site. If applicable, each project shall also implement and fully comply with the Industrial Storm Water Permit (Order No 97-03-DWO) and Kern County Municipal Stormwater Permit (Order No 5-01-120). All plans under these requirements shall be submitted to Kern County Public Works for review and approval. 2. Any operator of a facility that meets the following requirements is not required to be covered by the Construction General Permit (State Water Regional Control Board Memorandum dated 5-18-2010): a. discharges of stormwater runoff from oil and gas exploration, production, processing or treatment operations or transmission facilities, including field activities or operations that may be considered construction activity; 1. are not contaminated by contact with, or do not come into contact with, any overburden, raw material, intermediate products, finished product, byproduct or waste products; 2. are only contaminated by or only come into contact with sediment; and 3. pursuant to 40.C.F.R. § 122.26(c)(1) (iii) that do not contribute to a violation of a water quality standard. Any change to this State Water Regional Control Board determination will require full compliance with National Pollutant Discharge Elimination System requirements. 3~~2~~. Any operator not subject to National Pollutant Discharge Elimination System stormwater permitting requirements shall implement Best Management Practices during construction and operation. All selected practices shall be shown on a drainage implementation plan		

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		and self-certified as complete and feasible by a licensed professional qualified in drainage and flood control issues. The plan shall be submitted to the Kern County Planning and Community Development department. The following Best Management Practices shall be implemented and shown on the drainage implementation plan : a. Utilizing established facilities design, construction or similar standards as appropriate (-e.g., American Society for the Testing and Materials (-ASTM) American Petroleum Institute (API)). b. Implementation good housekeeping and maintenance practices: i. Preventing trash, waste materials and equipment from construction storm water. ii. Maintaining wellheads, compressors, tanks and pipelines in good condition without leaks or spills. iii. Designing and maintaining graded pads to not actively erode and discharge sediment iv. Maintaining vehicles in good working order v. Providing secondary containment for all –above –ground storage tanks and maintaining such containment features in good operating condition c. Implementing spill prevention and response measures i. Utilizing preventative operating practices such as tank level monitoring, safe chemical handling and conducting regular inspections. ii. Developing and maintaining a spill response plan iii. Conducting spill response training for employees and have a process to ensure contractors have the necessary training iv. Maintaining spill response equipment on site. d. Implementing material storage and management practices: i. Preventing unauthorized access ii. Utilizing “run-on” and “run-off” control berms and swales		

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		iii. Stabilizing exposed slopes through vegetation and other appropriate methods (e.g., hay bales or rolls). B. Oil and gas activities ~~in~~ outside Tier 1 shall comply with all applicable state and federal stormwater management laws. For any oil and gas activity outside Tier 1~~I~~ that is not subject to state or federal stormwater management laws, regulations or general permits, the Applicant shall prepare a drainage plan that is designed to minimize runoff and minimize the potential for impeding or redirecting 100-year flood flows. The drainage plan shall be prepared in accordance with the Kern County Grading Code, the Green Code and approved by the Kern County ~~Engineering, Surveying and Permit Services~~ Department of Public Works, Floodplain Management Section. The plan shall specify best management practices to prevent all construction pollutants from contacting stormwater, with the intent of keeping sedimentation or any other pollutants from moving offsite and into receiving waters. The requirements of the Plan shall be incorporated into design specifications. Recommended best management practices for the construction phase must be shown on a drainage plan, and shall include the following: a. Erosion Control - 1. Scheduling of construction activities to avoid rain events. 2. Limiting vegetation removal to the minimum required. b. Sediment Control - 1. Secure stockpiling of soil. 2. Installation of a stabilized construction entrance/exit and stabilization of disturbed areas. c. Non-stormwater Control - 1. Proper fueling and maintenance of equipment and vehicles. 2. Proper concrete handling techniques. d. Waste and Material Management - 1. Properly managing construction materials, designating construction staging areas in or around the Project site. 2. Stockpiling and disposing of demolition debris, concrete, and soil properly. 3. Prompt removal and proper disposal of litter. 4. Proper disposal of demolition debris, concrete and soil. 5. Proper protections for fueling and maintenance of equipment and vehicles.		

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		6. Provide and maintain adequate secondary containment to minimize or eliminate pollutants from moving offsite and into receiving waters. e. Post-Construction Stabilization - 1. Ensuring the stabilization of all disturbed soils per revegetation or application of a soil binder. C. If construction activities will alter federal jurisdictional waters, project applicants shall comply with the federal Clean Water Act Section 404 and Section 401 permitting and certification requirements. If construction activities will alter state waters, project applicants shall comply with California Department of Fish and Wildlife Streambed Alteration requirements. **MM 4.9-3** All drilling operations must either use a closed loop system to avoid discharges of drilling muds and fluids, or obtain coverage under the State Water Resources Control Board low threat discharge General Order (Waste Discharge Requirements General Order 2003-0003-DEW), obtain individual Waste Discharge Requirements issued by the Central Valley Regional Water Quality Control Board for the unit, or obtain coverage under a general order issued by the Central Valley Regional Water Quality Control Board applicable to drilling ponds. Any surface ponds or sumps must be cleared of fluids and muds in accordance with the State Water Resources Control Board general order, applicable Water Discharge Requirements and Division of Oil Gas and Geothermal Resources regulations. Compliance with the State Water Resources Control Board or Central Valley Regional Water Quality Control Board low-threat discharge orders or Water Discharge Requirements, if closed-loop systems are not used, and applicable laws, regulations and standards will reduce potential surface water quality impacts from contact with drilling muds or fluids during drilling and construction to less than significant levels. After consultation with and approval by the Regional Water Board with jurisdiction over injection and groundwater, applicant shall provide for a tracer or some other reasonable method to allow well stimulation fluids to be distinguished from other fluids or chemicals for well stimulation permits. This could consist of an added tracer using an inert constituent that could be used to identify the presence of well stimulation fluids. Alternatively, it could be an intrinsic tracer, or some naturally occurring component that makes the well stimulation fluids chemically unique. Potential geochemical changes in the subsurface during injection or migration shall be considered. Use of a tracer shall be required to be disclosed to the public under Section 1788 of the SB 4 regulations. The regulations specifically require that the applicant require the composition and disposition of all well stimulation treatment fluids other than water, including “any radiological components or tracers injected into the well as part of the well stimulation treatment, a description of the recovery method, if any, for those components or tracers, the recovery rate, and specific disposal information for the recovered components or tracers a radiological component or tracer injected” (Section 1788 (15)). For any well stimulation treatment activity, the applicant shall not conduct well stimulation treatment activity until the State Water Resources Control Board, in consultation with the Central Valley Regional Water Quality Control Board, has approved either a groundwater monitoring plan or exclusion from groundwater monitoring for a given well, consistent with the State Water Resources Control Board Model Criteria for Groundwater Monitoring in Areas of Oil and Gas Well Stimulation. **MM 4.9-4** For any activity for which Chapter 19.98 applies, the Applicant shall not conduct any Class II injection activity regulated by the Underground Injection Control program, including enhanced oil recovery activities that discharge into any underground source of current or future beneficial use groundwater, including drinking water, unless the aquifer has been exempted by the United States Environmental Protection Agency or injection has otherwise been authorized by the U.S. Environmental Protection Agency or by the Division of Oil Gas and		

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		Geothermal Resources, in consultation and agreement by the State Water Resources Control Board, consistent with Public Resources Code 3131. **MM 4.9-5** For any activity for which Chapter 19.98 applies, the Applicant shall not discharge produced water into any surface disposal facility unless the facility has received the Waste Discharge Requirements from the Central Valley Regional Water Quality Control Board, or the need for Water Discharge Requirements has been waived by the Central Valley Regional Water Quality Control Board. As required by the SB 4 regulations, well stimulation treatment fluids and produced fluids from wells that have been stimulated cannot be stored, discharged, or disposed into surface ponds or pits. **MM 4.9-6** For any oil and gas activity within a Special Flood Hazard Area, the Applicant shall ensure that all constructed facilities are elevated or floodproofed in compliance with the requirements and standards found in the Kern County Floodplain Management Ordinance and Chapters 19.50 and 19.70 of the Kern County Zoning Code.		
Impact 4.9-2 Substantially Deplete Groundwater Supplies or Interfere Substantially with Groundwater Recharge such that There Would be a Net Deficit In Aquifer Volume or a Lowering of the Local Groundwater Table Level (e.g., the Production Rate of Pre-Existing Nearby Wells Would Drop to a Level That Would Not Support Existing Land Uses or Planned Uses for Which Permits Have Been Granted)	Potentially significant	Implement MM 4.9-1 through MM 4.9-6, as described above, and the groundwater mitigation measures described in Section 4.17, Utilities and Service Systems.	Significant and unavoidable	All Tiers
Impact 4.9-3 Substantially Alter the Existing Drainage Pattern of the Site or Area, Including Through the Alteration of the Course of a Stream or River, in a Manner That Would Result in Substantial Erosion or Siltation On-site or Off-site	Less than significant	Implement MM 4.9-1 through MM 4.9-6, as described above, and the groundwater mitigation measures described in Section 4.17, Utilities and Service Systems.	Less than significant	All Tiers
Impact 4.9-4 Substantially Alter the Existing Drainage Pattern of the Site or Area, Including Through the Alteration of the Course of a Stream or River, or Substantially Increase the Rate or Amount of Surface Runoff in a Manner That Would Result in Flooding On-site or Off-site	Less than significant	Implement MM 4.9-1 through MM 4.9-6, as described above, and the groundwater mitigation measures described in Section 4.17, Utilities and Service Systems.	Less than significant	All Tiers

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
Impact 4.9-5 Create or Contribute Runoff Water That Would Exceed the Capacity of Existing or Planned Stormwater Drainage Systems or Provide Substantial Additional Sources of Polluted Runoff	Less than significant	Implement MM 4.9-1 through MM 4.9-6, as described above.	Less than significant	All Tiers
Impact 4.9-6 Otherwise Substantially Degrade Water Quality	Less than significant	Implement MM 4.9-1 through MM 4.9-6, as described above, and the groundwater mitigation measures described in Section 4.17, Utilities and Service Systems.	Less than significant	All Tiers
Impact 4.9-7 Place Housing within a 100-year Flood Hazard Area as Mapped on a Federal Flood Hazard Boundary or Flood Insurance Rate Map or Other Flood Hazard Delineation Map	No impact	No mitigation measures are required since the Project does not include housing development.	No impact	All Tiers
Impact 4.9-8 Place Within a 100-Year Flood Hazard Area Structures That Would Impede or Redirect Flood Flows	Potentially significant	Implement MM 4.9-1 through MM 4.9-6, as described above.	Less than significant	All Tiers
Impact 4.9-9 Expose People or Structures to a Significant Risk of Loss, Injury, or Death Involving Flooding, Including Flooding as a Result of the Failure of a Levee or Dam	Potentially significant	Implement MM 4.9-1 through MM 4.9-6, as described above, and the groundwater mitigation measures described in Section 4.17, Utilities and Service Systems.	Less than significant	All Tiers
Impact 4.9-10 Contribute to Inundation by Seiche, Tsunami, or Mudflow	No impact	No mitigation measures are required.	No impact	All Tiers
Impact 4.9-11 Contribute to Cumulative Hydrology and Water Quality Impacts	Potentially significant	Implement MM 4.9-1 through MM 4.9-6, as described above, and the groundwater mitigation measures described in Section 4.17, Utilities and Service Systems. The County lacks jurisdiction and control over land conversions, and actions or approvals by other agencies that may cause cumulatively significant impacts to hydrology or water quality in the region; accordingly this impact remains significant and unavoidable.	Significant and unavoidable	All Tiers
Land Use and Planning				

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
Impact 4.10-1 Physically Divide an Established Community	Less than significant	Implement specified mitigation measures, including those that are applicable from Section 4.1, Aesthetics and Visual Resources, Section 4.3, Air Quality, Section 4.4 Biological Resources, Section 4.12, Noise, Section 4.15, Recreation, and Section 4.17, Utilities and Service Systems.	Less than significant	All Tiers
Impact 4.10-2 Conflict with Any Applicable Land Use Plan, Policy, or Regulation of an Agency with Jurisdiction Over the Project	Less than significant	No mitigation measures are required.	Less than significant	All Tiers
Impact 4.10-3 Conflict with Any Applicable Habitat Conservation Plan or Natural Community Conservation Plan	Less than significant	No mitigation measures are required.	Less than significant	All Tiers
Impact 4.10-4 Contribute to Cumulative Land Use Impacts	Less than significant	No mitigation measures are required.	Less than significant	All Tiers
Minerals				
Impact 4.11-1 Result in the Loss of Availability of a Known Mineral Resource that Would be of Value to the Region and the Residents of the State	Less than significant	No mitigation measures are required.	Less than significant	All Tiers
Impact 4.11-2 Result in the Loss of Availability of a Locally Important Mineral Resource Recovery Site Delineated on a Local General Plan, Specific Plan, or Other Land Use Plan	Less than significant	No mitigation measures are required.	Less than significant	All Tiers
Impact 4.11-3 Contribute to Cumulative Mineral Resources Impacts	Less than significant	No mitigation measures are required.	Less than significant	All Tiers
Noise				
Impact 4.12-1 Exposure of Persons to, or Generate, Noise Levels in Excess of Standards Established in the	Potentially significant	**MM 4.12-1** Construction: The Site Plan Application shall include a Site Vicinity Figure showing the location of any sensitive receptor(s) within the distances listed in the construction noise setbacks table, as shown below, of the construction site (potential impact area) for the proposed new well or other	Less than significant	All Tiers

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

<table>
<tr><th>Impact</th><th>Level of Significance before Mitigation</th><th>Mitigation Measure(s)</th><th>Level of Significance after Mitigation</th><th>Applicable Tier</th></tr>
<tr><td>Local General Plan or Noise Ordinance or Applicable Standards of Other Agencies</td><td></td><td>
ancillary facility or equipment (excluding pipelines). This Figure need not be prepared for Tier 1 areas unless a sensitive receptor is located within 3,270 feet of a construction site inside the Tier 1 area.
a. If there are no sensitive noise receptors within this potential impact area, then no construction mitigation measures shall be required.
b. If there are sensitive human noise receptors within the potential impact area, then additional information must be provided showing the type of equipment being used and the noise contours with levels not exceeding 65 dB DNL at the nearest exterior wall of the sensitive receptor or more than 1 dB DNL higher than the ambient noise levels, if in excess of 65 dB DNL. If noise levels are shown to exceed 65 dB DNL or more than 1 dB DNL higher than the ambient noise levels in excess of 65 dB DNL, then one or more of the following mitigation measures shall be taken:
1. Placement of a temporary sound attenuation wall(s) shall be placed at the optimal distance to the sensitive receptor, as determined by an acoustical expert.
2. Construction of a temporary berm shall be placed at the optimal distance to the sensitive receptor, as determined by an acoustical expert.
3. Modification of equipment to reduce noise impacts.
4. Implementation of a quiet mode drilling plan or other sound reduction technology or practices as documented in a report submitted to the County.
5. Arranging for the voluntary, temporary relocation of the occupants of the sensitive receptor during the construction period.
6. Use the following setbacks distances for the activities specified:
Construction Noise Setbacks
<table>
<tr><th>Activity</th><th>Setback Distance (feet)</th></tr>
<tr><td></td><td></td></tr>
<tr><td>Drilling (Well Advancement)</td><td>1,550</td></tr>
<tr><td>Drilling (Pull Out Of Well/Borehole)</td><td>820</td></tr>
<tr><td>Large-Scale Exploratory Drilling[1]</td><td>3,270</td></tr>
<tr><td>Well Workover</td><td>930</td></tr>
<tr><td>Hydraulic Fracturing</td><td>1,090</td></tr>
</table>
Note:
[1]Kenai Drill Rig #7

Information submitted with the Site Plan Application must detail the combination and methods used to determine the level of reduction and shall not exceed 65 dB DNL or any ambient levels in excess of 65 dB DNL or more than 1 dB DNL higher than the ambient noise levels, if in excess of 65 dB ~~A dB~~ DNL.
</td><td></td><td></td></tr>
</table>

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
		MM 4.12-2 Operation: New oil and gas wells shall be a minimum 210 feet from the closest sensitive receptor. Geophysical testing methods using vibroseis vehicles to generate sound waves shall be a minimum 150 feet from the closest occupied building, water well, sewer system, and septic tank. Geophysical testing methods using shotholes that employ explosives shall be a minimum 300 feet from the closest occupied building, water well, sewer system, and septic tank, and shall be in full compliance with all laws governing explosives.		
Impact 4.12-2 Exposure of Persons to, or Generate, Excessive Groundborne Vibration or Groundborne Noise Levels	Less than significant	No mitigation measures are required.	Less than significant	All Tiers
Impact 4.12-3 A Substantial Permanent Increase in Ambient Noise Levels in the Project Vicinity Above Levels Existing Without the Project	Potentially significant	Implement MM 4.12-2, as described above.	Less than significant	All Tiers
Impact 4.12-4 A Substantial Temporary or Periodic Increase in Ambient Noise Levels in the project Vicinity Above Levels Existing Without the Project	Potentially significant	Implement MM 4.12-1, as described above.	Less than significant	All Tiers
Impact 4.12-5 For a Project Located Within the Kern County Airport Land Use Compatibility Plan, Would the Project Expose People Residing or Working in the Project Area to Excessive Noise Levels	Potentially significant	Implement MM 4.12-1 and MM 4.12-2, as described above.	Less than significant	All Tiers
Impact 4.12-6 For a Project Located Within the Vicinity of a Private Airstrip, Would the Project Expose People Residing or Working in the Project Area to Excessive Noise Levels	Potentially significant	Implement MM 4.12-1 and MM 4.12-2, as described above.	Less than significant	All Tiers
Impact 4.12-7 Cumulative Impact on Noise Receptors	Potentially significant	Implement MM 4.12-1 and MM 4.12-2, as described above.	Less than significant	All Tiers

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
Population and Housing				
Impact 4.13-1 Induce Substantial Population Growth in an Area, Either Directly or Indirectly	Less than significant	No mitigation measures are required.	Less than significant	All Tiers
Impact 4.13-2 Displace Substantial Numbers of Existing Housing, Necessitating the Construction of Replacement Housing Elsewhere	No Impact	No mitigation measures are required.	Less than significant	All Tiers
Impact 4.13-3 Displace Substantial Numbers of People, Necessitating the Construction of Replacement Housing Elsewhere	No impact	No mitigation measures are required.	Less than significant	All Tiers
Impact 4.13-4 Cumulative Impact on Population and Housing	Less than significant	No mitigation measures are required.	Less than significant	All Tiers
Public Services				
Impact 4.14-1 Result in Substantial Adverse Physical Impacts Associated with the Provision of New or Physically Altered Governmental Facilities, Need for New or Physically Altered Governmental Facilities, the Construction of which could Cause Significant Environmental Impacts, in Order to Maintain Acceptable Service Ratios, Response Times, or Other Performance Objectives for Any of the Public Services, which Include: Fire Protection, Police Protection, Schools, Parks, and Other Public Facilities	Potentially significant	**MM 4.14-1** Applicant shall contribute to funding the acquisition of a Combination Walk-in/Non-Walk-in Industrial Firefighting vehicle capable of responding with a minimum of five firefighters with the tools and equipment necessary for industrial firefighting and rescue. Each Applicant shall pay $150 per well on each Oil and Gas Conformity Review permit until the total cost of the vehicle purchase is reached, not to exceed $850,000, to be paid through mitigation fees on Oil and Gas Conformity Review permits. Subsequent Applicants shall not be subject to this mitigation measure. **MM 4.14-2** Applicant shall provide funding in the amount of $425 per Oil and Gas Conformity Review permit issued for the Sheriff's Rural Crime Unit. Funding shall be used for one Sergeant, two Senior Deputies (investigators), three Deputies, One Support Technician (clerical), and helicopter usage, based on the amount of funding provided by this permit mitigation fee. The fee shall be in addition to any general funds received by the Sheriff's Department. The Sheriff's department shall annually report on the expenditure of funds for the Rural Crimes Unit, including incident reports and response times. If other sources of funding for the Rural Crimes Unit are secured, then the mitigation fee amount shall be adjusted to pay only the gap between actual costs and funding provided from other sources. The first 100 permits issued in a calendar year to certified small producers under the Small Producers Program included in the Project shall not pay this mitigation fee based on their very low proportionate use of the Rural Crimes Unit (100 permits are estimated to generally be less than 5% of the permits issued annually).	Less than significant	All Tiers
Impact 4.14-2 Contribute to Cumulative Public Service Impacts	Potentially significant	Implement MM 4.14-1 and MM 4.14-2, as described above.	Less than significant	All Tiers

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
Recreation				
Impact 4.15-1 Increase the Use of Existing Neighborhood and Regional Parks or Other Recreational Facilities Such That Substantial Physical Deterioration Would Occur or Be Accelerated	Less than significant	No mitigation measures required.	Less than significant	All Tiers
Impact 4.15-2 Include Recreational Facilities or Require Construction or Expansion of Recreational Facilities That Might Have an Adverse Physical Effect on the Environment	Less than significant	No mitigation measures required.	Less than significant	All Tiers
Impact 4.15-3 Cumulative Impact on Recreational Facilities	Less than significant	No mitigation measures required.	Less than significant	All Tiers

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
Transportation and Traffic				
Impact 4.16-1 Conflict with an Applicable Plan, Ordinance, or Policy Establishing Measures of Effectiveness for the Performance of the Circulation System, Including, but Not Limited to, Intersections, Streets, Highways and Freeways, Pedestrian and Bicycle Paths, and Mass Transit	Potentially significant	**MM 4.16-1** The Applicant shall pay a road maintenance mitigation fee of $1,500 per permit for new wells to pay for roadway maintenance and related improvements to address wear and tear on roads caused by oil and gas industry traffic. The ~~Roads~~ Kern County Public Works D~~d~~epartment shall annually report on the expenditure of funds from the Oil and Gas Roadway Maintenance Fee. Expenditures from the fund shall be as determined by the Roads Commissioner, using as a reference the list of roadways identified in the Environmental Impact Report as being used for traffic by the oil and gas industry. If Kern County secures funding from a sales tax dedicated to transportation funding, then the amount of the traffic mitigation fee shall be re-evaluated at the time the County becomes a self-help county. The first 100 permits issued in a calendar year to certified small producers under the Small Producers Program included in the Project shall not pay this mitigation fee based on their very low proportionate roadway use (100 permits are estimated to generally be less than 5% of the permits issued annually). **MM 4.16-2** Applicants who are using an arterial or collector, or Caltrans route, for access to a construction site, shall consult with the Kern County Public Works Department~~ – Roads Division~~ to determine if a Construction Traffic Control Plan is required based on the timing and volume of larger vehicle rigs and the volume of traffic to address public safety and congestion management. If a Plan is required, the Applicant shall prepare and submit a Construction Traffic Control Plan to the Kern County ~~Roads~~ Public Works Department and to the California Department of Transportation (District 9 office) for approval. The Construction Traffic Control Plan must be prepared in accordance with both the California Department of Transportation Manual on Uniform Traffic Control Devices and Work Area Traffic Control Handbook and shall include, but not be limited to, the following issues: a. Timing of deliveries of heavy equipment and building materials. b. Placing temporary signing, lighting, and traffic control devices as necessary to indicate the presence of heavy vehicles and construction traffic. c. Determining the need for construction work hours and arrival/departure times outside peak traffic periods. d. Ensuring access for emergency vehicles to the Project site. e. Any temporary closure of travel lanes or disruptions to street segments and intersections during well development. f. Maintaining access to adjacent property.	Less than significant after mitigation	All Tiers
Impact 4.16-2 Conflict with an Applicable Congestion Management Program, Including, but Not Limited to Level of Service Standards And Travel Demand Measures, or Other Standards Established by the County Congestion Management Agency for Designated Roads or Highways -Metropolitan Bakersfield General Plan Level of Service “C” -Kern County General Plan Level of Service “D”	Less than significant	Implement MM 4.16-2, as described above.	Less than significant after mitigation	All Tiers

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
-Caltrans Endeavors to Maintain a Target Level of Service at the Transition between Level of Service “C” and Level of Service “D”				
Impact 4.16-3 Result in a Change in Air Traffic Patterns, including Either an Increase in Traffic Levels or a Change in Location that Results in Substantial Safety Risks	Potentially significant	Implement airport-related mitigation measures, as described in Section 4.8, Hazards and Hazardous Materials.	Less than significant after mitigation	All Tiers
Impact 4.16-4 Substantially Increase Hazards due to a Design Feature (e.g., Sharp Curves or Dangerous Intersections) or Incompatible Uses	Potentially significant	Implement MM 4.16-2, as described above.	Less than significant after mitigation	All Tiers
Impact 4.16-5 Result in Inadequate Emergency Access	Potentially significant	Implement MM 4.16-2, as described above.	Less than significant after mitigation	All Tiers
Impact 4.16-6 Conflict with Adopted Policies, Plans, or Programs regarding Public Transit, Bicycle, or Pedestrian Facilities, or Otherwise Decrease the Performance or Safety of Such Facilities	Potentially significant	Implement MM 4.16-2, as described above.	Less than significant after mitigation	All Tiers
4.16-7 Cumulative Impacts on Transportation and Traffic	Potentially significant	Implementation of MM 4.16-1 and MM 4.16-2, as described above.	Less than significant after mitigation	All Tiers
Utilities and Service Systems				
Impact 4.17-1 Exceed Wastewater Treatment Requirements of the Applicable Regional Water Quality Control Board	Less than significant	Implement stormwater mitigation measures, as described in Section 4.9, Hydrology and Water Quality.	Less than significant	All Tiers
Impact 4.17-2 Require or Result in the Construction of New Water or Wastewater Treatment Facilities or	Potentially significant	**MM 4.17-1** Prior to the issuance of building permits for an operations and maintenance building, the method of sewage disposal shall be as required and approved by the Kern County Public Health Services Department. Compliance with this requirement will necessitate that the Project proponent obtain the necessary approvals for the design of the septic system from the Kern County ~~Engineering, Surveying and Permit~~	Less than significant	All Tiers

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
Expansion of Existing Facilities, the Construction of which could cause Significant Environmental Effects		~~Services~~ Department of Public Works. The septic system disposal field shall be located a minimum of 100 feet from a classified stream or 25 feet from a non-classified stream and shall not be located where it would impact State wetlands or special-status plant species.		
Impact 4.17-3 Require or Result in the Construction of New Stormwater Drainage Facilities or Expansion of Existing Facilities, the Construction of which could cause Significant Environmental Effects	Less than significant	Implement stormwater mitigation measures, as described in Section 4.9, Hydrology and Water Quality.	Less than significant	All Tiers
Impact 4.17-4 Not Have Sufficient Water Supplies Available to Serve the Project from Existing Entitlements and Resources, or New or Expanded Entitlements Would Be Needed	Potentially significant	**MM 4.17-2** Applicant shall increase the re-use of produced water, and reduce its use of municipal and industrial-quality ground or surface water use to the extent feasible. By the end of 2016, the Applicants shall work with the County to review water use data submitted to Division of Oil Gas and Geothermal Resources under Senate Bill 1281 and identify the five biggest oil industry users of municipal and industrial water by volume. The five biggest oil industry users of municipal and industrial water shall work together to develop and implement a plan identifying new measures to reduce municipal and industrial water use by 2020. The plan shall address the following activities, as appropriate: steam generation; drilling and completions (including hydraulic fracturing); dust control; compaction activities related to construction; and landscaping. Through the KernFLOWS initiative or other efforts (e.g., Groundwater Sustainability Agency), the five biggest oil industry users of municipal-and-industrial water shall also work with local agricultural producers and water districts to identify new opportunities to increase the use of produced water for agricultural irrigation and other activities, as appropriate. Any produced water treated and used for agricultural irrigation or other activities shall be tested and monitored to assure compliance with applicable standards for such agricultural irrigation or other uses. **MM 4.17-3** In the County's required participation for the formulation of a Groundwater Sustainability Agency, the Applicant shall work with the County to integrate into the Groundwater Sustainability Plan for the Tulare Lake-Kern Basin, best practices from the oil and gas industry to encourage the re-use of produced water from oil and gas activities, and (with appropriate treatment) to produce new water supplies for other uses such as agricultural irrigation and groundwater recharge. The produced water re-use goal is 30,000 acre-feet per year, which would offset more than the current use of imported water and groundwater from non-oil bearing zones by the oil and gas industry. **MM 4.17-4** The Applicant shall work with the County on the Groundwater Sustainability Plan to increase Applicant use of reclaimed water and reduce the Applicant's use of municipal-and-industrial quality imported surface water or groundwater. The Applicant will provide copies of water use reports produced under ~~AB~~ SB 1281 to the Groundwater Management Agency, which will then integrate this information into the Groundwater Sustainability Plan required under the Sustainable Groundwater Management Act.	Significant and unavoidable	All Tiers
Impact 4.17-5 Result in a Determination by the Wastewater Treatment Provider that Serves or May Serve the Project that it has Adequate Capacity to Serve the Project's Projected Demand in Addition to the Provider's Existing Commitments	Less than significant	Implement MM 4.17-1, as described above.	Less than significant	All Tiers
Impact 4.17-6	Potentially significant	Implement MM 4.17-2 and MM 4.17-3, as described above, and the following:	Less than significant	All Tiers

Table 12-2: Summary of Impacts, Mitigation Measures, and Level of Impacts after Mitigation

Impact	Level of Significance before Mitigation	Mitigation Measure(s)	Level of Significance after Mitigation	Applicable Tier
Be Served by a Landfill with Insufficient Permitted Capacity to Accommodate the Project's Solid Waste Disposal Needs		**MM 4.17-5** During construction activities for Project facilities, the Applicant shall not store construction waste onsite for longer than the duration of the construction activity, or transport any waste to any unpermitted facilities. The Applicant shall also reduce construction waste transported to landfills by recycling solid waste construction materials, such as taking materials to recycling and reuse locations listed in the brochure on recycling construction and demolition materials available on the Kern County Waste Management Department website.		
Impact 4.17-7 Fail to Comply with Federal, State, and Local Solid Waste Statutes and Regulations	Potentially significant	Implement MM 4.17-5, as described above.	Less than significant	All Tiers
Impact 4.17-8 Cumulative Impacts on Utilities and Service Systems	Potentially significant	Implement MM 4.17-1 through MM 4.17-5, as described above.	Significant and unavoidable	All Tiers

***Attachment A to Chapter 1 of the EIR and Attachment A to Chapter 3**, "Zoning Ordinance Amendments" are revised to be replaced with the Proposed Ordinance, as shown in Section 12.1.2, above.*

***Page 4.3-105 of the EIR, Section 4.3.4,** is revised to replace existing Table 4.3-33 in its entirety with the new Table 4.3-33 set forth below:*

Table 4.3-33: Estimated per Well Emissions used in the HRA Analysis

Depth Feet	Year[1]	Total $PM_{2.5}$[2] pounds	Annual $PM_{2.5}$[3] pounds	Days[4]
10,000	2015	516.89	17.23	23
10,000	2018	444	14.8	23
10,000	2035	151.83	5.06	23
5,000	2015	171.18	5.71	8
5,000	2035	35.86	1.20	8
2,000	2015	97.12	3.24	4
2,000	2035	20.42	0.68	4

Notes:
[1] 2029-2035 emissions are the same.
[2] From Vector Environmental Spreadsheet titled "DRL_EMISSIONS.xlsx", worksheet "EMF".
[3] Total emissions divided by 30 years per OEHHA's HARP2 exposure duration requirements.
[4] From Vector Spreadsheet titled "DRL_EMISSIONS xlsx", worksheet "MUD".

***Pages 4.2-22 through 4.2-23 of the DEIR, Section 4.2.4,** is revised as follows:*

b. A Spill Prevention Countermeasure and Contingency Plan or Division of Oil Gas and Geothermal Resources Assembly Bill 1960 spill plan, as applicable, shall be prepared for the site and oil and chemical spills treated in accordance with the Division of Oil Gas and Geothermal Resources Senate Bill 4 Regulations for the site to protect adjacent farmland, as described in mitigation ~~Measure~~measures for Hazards.

***Page 4.4-32 of the EIR, Section 4.4.2,** third full paragraph, is revised as set forth below, as described in response to comment E-40 in Section 12.3 above:*

Category 3 species were identified during the literature review or by local experts as either : 1) not having a federal or state listing status, potentially occurring in the vicinity of the Project Area, and for which suitable habitat is present; or 2) having a federal or state listing status, no potential to occur in the Project Area, or for which suitable habitat is not present. As discussed below (see Tables 4.4-26 and 4.4-36), Category 3 species that have no federal or state listing status may ~~also~~ be present in the Project Area. Category 3 plant and wildlife species were not further analyzed in the EIR because they either lack official status as a State of California or a federally threatened or endangered species (e.g., a California Rare Plant Rank [CRPR] Rank 4 species) or they have no

potential to occur in the Project Area. A total of 53 plants and 24 wildlife species were included in Category 3 and not further analyzed in this EIR (see Tables 4.4-26 and 4.4-36 and Impact 4.4-1).

Pages 4.3-110 through 4.3-112 of the EIR, Section 4.3.4, *are revised as follows:*

MM 4.3-5 Construction:

The Site Plan Application shall include a Site Vicinity Figure showing the location of any sensitive receptor(s) within 3,000 feet of the construction site (potential impact area) for the proposed new well or other ancillary facility or equipment (excluding pipelines).

a. If there are no sensitive receptors within this potential impact area, then no construction mitigation measures shall be required.

b. If there are sensitive receptors within the potential impact area, then additional information must be provided showing the setback from the closest edge of the well pad to the property line of the nearest sensitive receptor. The minimum distances shall be as follows:

Well Depth (Feet)	**Minimum Setback Distance from Well Site to Adjacent Property Line of an Existing Sensitive Receptor (Feet)**
Western Subarea	
10,000	367
5,000	116
2,000	NA
Central Subarea	
10,000	367
5,000	116
2,000	NA

Eastern Subarea	
10,000	296
5,000	NA
2,000	NA

c. If the above setbacks cannot be met, and for existing wells, the Applicant shall provide a site-specific or other risk assessment to the San Joaquin Valley Air Pollution Control District, which may include implementation of ~~implement~~ one or more of the following risk minimization measures, or other such measures that are demonstrated by the Applicant to the San Joaquin Valley Air Pollution Control District, to achieve a level of risk less than the threshold risk level, and shall provide confirmation from the San Joaquin Valley Air Pollution Control District that the activity that is the subject of the application will not exceed the risk threshold:

1. Placement of engines in the potential impact area away from the sensitive receptors.
2. Utilize directional drilling to locate rig away further from the sensitive receptor(s).
3. Use of late-model engines, low-emission diesel products, alternative cleaner fuels (e.g., natural gas or liquefied petroleum gas), engine retrofit technology, add-on devices such as diesel particulate filters or oxidation catalyst, and/or other options as such become available to reduce emissions from off-road and other equipment.
4. Utilize electricity line power if available.
5. Shutdown all equipment when not in use, and otherwise minimize engine idling by limiting idling to 15 minutes.
6. Use of automatic rigs.
7. Assist and pay to relocate residents to temporary lodging during well construction, drilling, and completion activities, if such residents voluntarily agree to such relocation.

Pages 4.4-207 through 4.4-208 of the EIR, Section 4.4.4, *is revised as follows, as described in response to comment E-12 in section 12.3 above:*

MM 4.4-9 All sites located above 2,000 feet in elevation, or within 200 feet down gradient from the 2,000-foot elevation contour line, shall implement the following measures to avoid and minimize potential adverse impacts to the California condor:

a. The site shall, at all times, be maintained to avoid any trash, debris, food sources and microtrash, such as bottle caps, that could be ingested by or attract California condor. Trash shall be disposed in animal-proof containers as required in BIO 4.4-19.

b. The Worker Environmental Awareness Program described in BIO MM 4.4-18 shall include information about microtrash and potential effects to California condor, and shall prohibit the disposal of trash (and microtrash) on the site of oil and gas activities.

c. If a condor is observed in a proposed construction site, all disturbance activities must immediately cease within 500 feet of the condor until the animal has moved from the site. If condor occurrence persists, the United States Fish and Wildlife Service and the California Department of Fish and Wildlife must be contacted to identify appropriate avoidance measures prior to initiating or resuming any disturbance activity.

d. All condor observations shall be reported within 24 hours to the United States Fish and Wildlife Service and the California Department of Fish and Wildlife.

e. All tanks, liquid storage facilities, and any open area containing water or other liquid materials, including drilling sumps, must be covered or otherwise shielded in a manner that prevents condor intrusion and potential entrapment.

f. No overhead transmission lines ~~greater than 85 kV~~ may be used at the site without the prior approval of the United States Fish and Wildlife Service and the California Department of Fish and Wildlife.

Pages 4.4-213 of the EIR, Section 4.4.4, *is revised as follows:*

m. ~~Vehicle, equipment, and material storage must be limited to previously disturbed areas. No construction or operational materials may be placed or stored outside of the planned disturbance area or stockpiled for future disposal.~~ All concrete and asphalt debris should be removed from the site for recycling or proper disposal.

Page 4.4-219 of the EIR, Section 4.4.4, *is revised as follows (this revision was described in Response to Comment 0004-96 of Section 7.2, but was inadvertently not listed as a revised mitigation measure in section 7.1.4):*

MM 4.4-17 Pre-disturbance surveys shall be conducted by a qualified biologist during the appropriate periods for detecting Sensitive Natural Communities that could occur within the Project Area. The surveys shall be completed consistent with applicable protocols approved by the United States Fish and Wildlife Service and/or the California Department of Fish and Game, including the Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities (California Department of Fish and Wildlife 2009). The qualified person shall map and identify all sensitive natural communities, including riparian communities that occur in or within 100 feet of any new disturbance area. The site

plan for the proposed activity shall identify waters, wetlands, resources subject to section 1600 of the CFGC, and other riparian habitats that occur in and within 100 feet of the disturbance area.

Page 4.4-229 of the EIR, Section 4.4.4, *is revised as follows:*

MM 4.4-20 Applicants shall fund through the Site Conformity Review administrative fee, preparation by Kern County of, an annual report describing the Project's ground disturbance acreage, and the acreage of compensatory mitigation lands, in each sub-area. For Covered Activities within areas included in proposed HCPs, the requirements of MM 4.4-1 – 4.4-19 may be superseded by specific requirements imposed by USFWS as part of approval of a federal incidental take permit (e.g., under Section 10 or Section 7 of the Endangered Species Act), or by CDFW as part of approval of a state incidental take permit (e.g., under the Fish and Game Code), provided that USFWS (in the case of a federal incidental take permit) or CDFW (in the case of a state incidental take permit) concludes in writing that such requirements provide equivalent or greater protection than MM 4.4-1 – 4.4-19 (or any subset thereof).

Page 4.5-49 of the EIR*, Section 4.5.4, is revised as follows:*

c. Implement either:

1. If a site plan includes land that has experienced 100% ~~of~~ previous ground-surface disturbance, or is within a section with 300 or more existing oil wells or other agricultural, industrial or urban uses, and the records searches indicate that ~~the parcel has been previously surveyed and~~ no cultural or Native American resources are known on it, no further cultural resources studies shall be required. All other application locations shall be subject to intensive (100%) pedestrian ground-surface survey (Phase I survey/Class III inventory) by qualified archaeologists. The Applicant may rely on a previously performed ground surface survey for subsequent ground disturbing activities; or

Page 4.6-54 of the EIR, Section 4.6.4, *is revised as follows:*

Ensure that all newly installed pipelines subject to 49 Code of Federal Regulations (CFR) Parts 192 and 195, are engineered and constructed in compliance with the requirements of the pipeline safety regulations,as set forth by the Pipeline Hazardous Materials Safety Administration (PHMSA). All other newly installed pipelines that transport gas or hazardous liquids are ~~designed~~ to be constructed, tested operated and maintained in accordance with good oilfield practice and applicable standards set forth and approved by the State Oil and Gas Supervisor. Ensure that all new pipelines designated for or water used for fire suppression are engineered and constructed in compliance with the requirements of California Building Code Chapter 9, Fire Protection Systems, and the California Fire Code to address potential fault rupture displacements.

Page 4.7-14 of the EIR, Section 4.7.3, *first full paragraph, is revised as follows:*

AB 32 charges the CARB with responsibility to monitor and regulate sources of GHG emissions in order to reduce those emissions. CARB staff recommended an amount of 427

million metric tons of carbon dioxide equivalent ($MMTCO_2e$) as the total statewide GHG 1990 emissions level and 2020 emissions limit. The CARB approved the 2020 limit on December 6, 2007. This limit is an aggregate statewide limit, rather than sector- or facility-specific. On October 20, 2011, CARB approved a Cap-and-Trade Program as part of AB 32, with compliance obligations that became effective in 2013. For compliance years 2013 and 2014, an initial cap was implemented for the electrical sector and large industrial sources that emit equal to or greater ~~more~~ than 25,000 metric tons of CO_2e emissions per year. Transportation fuels and natural gas usage were added to the Cap-and-Trade Program beginning in 2015, and the cap was adjusted to account for the inclusion of these new emission sources. ~~Over time, t~~The cap declines~~will be reduced~~ by about 3% per year.

Page 4.7-20 of the EIR, Section 4.7.3, *first full paragraph, is revised as follows:*

Cap-and-trade is a market based regulation that is designed to reduce GHGs from multiple sources, including operators of Petroleum and Natural Gas Systems facilities (Section 95852(h)). It is viewed as an environmentally effective and economically efficient response to climate change. Cap-and-trade sets a firm limit, or cap on total covered statewide GHG emissions ~~from all sources in the Cap-and-Trade Program~~, and minimizes the compliance costs of achieving AB 32 goals. Beginning in 2013, the cap on emissions included covered electricity generators and large industrial facilities emitting 25,000 MTCO2e or more annually.~~The initial cap was established in 2013 for the electrical sector and any large industrial source emitting more than 25,000 $MTCO_2e$ per year.~~ Oil and gas production activities are considered to be industrial activities and production facilities are included in the Cap-and-Trade Program when their annual emissions equal or exceed the 25,000 metric ton threshold. ~~Beginning i~~In 2015, the cap ~~was~~ expanded to include GHG emissions from the combustion of transportation, ~~fuels and~~ natural gas, and other fuels. The cap declines approximately 3% each year. ~~In t~~The auction of allowances at a minimum price and transactions in the secondary market ~~, a price on carbon is~~ established a price on ~~for~~ GHGs. Trading and market forces create incentives to reduce GHGs below allowable levels through investments in technological innovation in clean technologies. California has linked its Cap-and-Trade Program with a similar program adopted by Quebec in order to help deliver cost-effective emission reductions.

Page 4.7-24 of the EIR, Section 4.7.3, *first full paragraph, is revised as follows:*

By analogy to the BAU cases, a project's compliance with the Cap-and-Trade Regulation is also an appropriate means of determining the significance of the Project's GHG emissions because in either case (i.e., for both covered and non-covered entities), the 29% reduction in emissions anticipated by AB 32 will occur. As CARB set the statewide annual GHG allowance cap at levels low enough to assure that the overall AB 32 statewide emission reduction goal would be achieved, compliance with the Cap-and-Trade

Regulation assures that a project will not cause a GHG emission increase that would cause the state to miss its GHG emission reduction goals.

Pages 4.7-30 through 4.7-31 of the EIR, Section 4.7.3, *are revised as follows:*

Section 4.7.3, Regulatory Setting, shows the applicable laws and regulations that ensure management and ongoing reductions of GHG at a state, regional, and local levels. All activities related to oil and gas well stimulation treatments proposed as part of the Project must comply with applicable federal, state, and local laws and regulations and will be subject to review by the SJVAPCD. Additionally, the CARB is developing ~~expects to adopt~~ an Oil and Natural Gas Methane Regulation ~~in 2015~~ to achieve GHG emissions reductions from oil and gas extraction and transmission activities, though it has not yet been adopted.

Page 4.7-35 of the EIR, Section 4.7.3, *first full paragraph, is revised as follows:*

Emissions shown in Table 4.7-9 for the Project build-out in 2035 are expected to be a decrease from BAU levels as regulatory initiatives are phased in to reduce GHG emissions from sources across the state. On a per-well basis, GHG emissions from oil production would be reduced over time due to GHG emission reductions required under multiple programs, including California's GHG Cap-and-Trade Program, California's pending rule limiting methane emissions from oil and gas production, and implementation of the EPA's Reformulated Fuels Standard (RFS-2). The total anticipated GHG emissions from oil and gas operations in Kern County are projected to increase from 2012 to 2035 due to a projected increase in the number of wells. However, GHG emissions from construction and operation of oil and gas wells will continue to be subject to CARB's AB 32 Cap-and-Trade Program (for covered entities under the program) and other regulatory mandates, so that oil and gas production in Kern County would not conflict with statewide GHG emissions goals and objectives.

Pages 4.7-35 through 4.7-37 of the EIR, Section 4.7.3, *are revised as follows:*

GHG Reductions from the California GHG Cap-and-Trade Program. As discussed above, CARB's Cap-and-Trade Regulation establishes a set of rules that limit GHG emissions from the state's largest sources of GHGs by applying a statewide aggregate GHG allowance budget to covered entities (17 CCR 95800 to 96023). The regulation also provides a trading mechanism for compliance instruments (17 CCR 95920 et seq.). The Cap-and-Trade Program imposes an enforceable statewide cap on GHG emissions from~~at~~ covered entities~~facilities~~ (including refineries, electric power generators and importers~~providers~~, cement production facilities, and oil and gas production facilities, and ~~expanded to include~~ fuel suppliers beginning in 2015) that steadily declines over time. For each compliance period (2013-2014, 2015-2017, and 2018-2020), each covered facility ultimately is required to surrender GHG compliance instruments (emission allowances or

offset credits up to the usage limit) equal to its covered GHG emissions during the compliance period (with limited exceptions for GHG emissions that are not subject to a compliance obligation). The quantity of compliance instruments required to be surrendered is the facility's compliance obligation. Since a facility's compliance obligation is equal to its actual GHG emissions during the relevant compliance period, the compliance obligation can be reduced by implementing programs within the facility to reduce GHG emissions.

An allowance is a tradable permit to emit 1 $MTCO_2e$ GHG emission. Covered entities may also use a limited number of CARB-approved offset credits to meet their compliance obligation. A covered facility may obtain GHG compliance instruments by any or all of the following methods:

Receiving ~~free~~ allowances allocated by CARB;

Purchasing either California or linked jurisdiction allowances at ~~CARB~~ quarterly allowance auctions;

Purchasing California allowances at a reserve sale;

Purchasing California or linked jurisdiction allowances from other market participants~~covered facilities or entities in the program~~;

Transferring California or linked jurisdiction allowances from other market participants; and

Purchasing GHG offset credits generated by emission reduction activities in uncapped sectors~~at other facilities; and~~.

P~~urchasing compliance instruments (allowances or credits) from other GHG trading programs formally "linked" to California's Cap-and-Trade Program.~~

If a covered facility does not surrender sufficient compliance instruments to meet its annual or triennial GHG emissions compliance obligation by the applicable deadline ~~following the end of a compliance period~~, the facility has a limited time following the deadline in which to provide additional compliance instruments to cover its shortfall in surrendering compliance instruments. The shortfall must be covered by providing allowances (not offset credits) in an amount equal to four times the amount of the shortfall.

In general, the total number of allowances available statewide for each calendar year decreases annually through 2020, thus establishing the cap. (The total quantity of allowed emissions actually increased for 2015 to account for the addition of fuel suppliers and additional electricity importers to the program. However, the net effect of the Cap-and-

Trade rule is to reduce statewide GHG emissions from covered sources.) The cap will decline approximately 3% each year beginning in 2013, representing an 18% reduction from the statewide 1990 baseline (CARB 2015; DOGGR 2015).

A certain number of allowances are allocated without cost to the recipient via~~(the "~~direct allocation~~")~~, based on rules in the Cap-and-Trade Regulation and depending on the type of facility. The quantity of direct allowances allocated to covered facilities engaged in crude petroleum and natural gas extraction activities (North American Industry Classification System (NAICS) codes 211111 and 211112) is determined using a product ~~output~~ based allocation methodology, which is based on barrel of oil equivalent efficiency benchmarks in Table 9-1 of the Regulation (17 CCR 95891). The direct allocation to a given facility may be less or greater than the facility's compliance obligation. The remainder of allowances required for annual compliance may~~ust~~ be purchased through auctions managed by CARB, from other owners of GHG allowances, or from third-party traders, as discussed above.

California petroleum and natural gas system processes or operations, including onshore oil and gas production, with covered emissions of 25,000 MT or more of CO_2e per data year are covered under the Cap-and-Trade Program 17 CCR 95811(a)(9), 95852(h), 95802(a)(143)(C) ("Where a person or entity owns or operates more than one well in a [hydrocarbon] basin, then all onshore petroleum and natural gas production equipment associated with all wells that the person or entity owns or operates in the basin would be considered one facility."), 95802(a)(258). See also 17 CCR 95812(c) (4), 95101(e) (2). An onshore petroleum or natural gas production facility that does not exceed the inclusion threshold of 25,000 MT or more of CO_2e per data year may elect to voluntarily opt-in to the Cap-and-Trade Program. The entity with operational control over a covered source (a facility within a covered sector and with covered emissions that meet or exceed the applicability threshold) bears responsibility for meeting the Cap-and-Trade compliance obligations 17 CCR 95811(a), 95802(a)(258) (For onshore petroleum and natural gas production, the operator is the operating entity listed on the state well drilling permit, or a state operating permit for wells where no drilling permit is issued by the state).

With respect to the proposed Project's permitted source GHG emission impacts, operators of covered facilities are required to comply with the Cap-and-Trade Program. Available compliance responses to covered entities under the program include ~~(e.g., by~~ reducing GHG emissions within their facilities, or ~~by~~ surrendering GHG allowances~~,~~ or offset credits~~, or other compliance instruments~~ to satisfy~~offset~~ the compliance obligations~~GHG emissions~~ identified in Table 4.7-8~~)~~.

With regard to onshore oil and natural gas production, only facility emissions (e.g., emissions resulting from combustion of fossil or other fuel and certain process and vented

emissions) create a Cap-and-Trade compliance obligation for a covered facility (17 CCR 95852). For an onshore petroleum and natural gas production facility, the operator must report CO_2, CH_4, and N_2O emissions from the following source types on a well-pad, associated with a well-pad or associated with equipment to which an emulsion (a mixture of crude oil, condensate, or produced water in any proportion [17 CCR 95102(a)(147)]) is transferred : (1) metered natural gas pneumatic device and pump venting; (2) non-metered natural gas pneumatic device venting; (3) acid gas removal vents; (4) dehydrator vents; (5) well venting for liquids unloading; (6) gas well venting during well completions and workovers; (7) equipment and pipeline blowdowns; (8) dump valves; (9) well testing venting and flaring; (10) associated gas venting and flaring; (11) flare stack or other destruction device emissions; (12) centrifugal compressor venting; (13) reciprocating compressor rod packing venting; (14) enhanced oil recovery (EOR) injection pump blowdown; (15) crude oil, condensate and produced water CO_2 and CH_4; (16) equipment leaks from valves, connectors, open-ended lines, pressure relief valves, pumps, flanges, and other equipment leak sources (such as instruments, loading arms, stuffing boxes, compressor seals, dump lever arms, and breather caps); and (17) stationary or portable equipment including equipment which is integral to the extraction, processing, and movement of oil and/or natural gas; such as well pad construction equipment, well drilling and completion equipment, equipment used for abandoned well plugging and site reclamation, workover equipment, natural gas dehydrators, natural gas compressors, electrical generators, steam boilers, and process heaters (17 CCR 95152(c)). These emissions are reported under MRR and lead to the Cap-and-Trade compliance obligation.

Page 4.7-39 of the EIR, Section 4.7.4, *is revised as follows:*

MM 4.7-1 An Applicant covered by the Cap-and-Trade Program with permitted stationary sources shall comply with the Cap-and-Trade regulation (~~e.g.,~~ especially by ~~reducing greenhouse gas emissions within their facilities or by~~ surrendering greenhouse gas allowances~~,~~ or offset credits~~, or other compliance instruments to offset the greenhouse gas increases~~ to satisfy their compliance obligation under the Program), and implement Best Performance Standards applicable to greenhouse gas reduction for Components at Light Crude Oil and Natural Gas Production, Natural Gas Processing Facilities, Petroleum Refineries, Gas Liquids Processing Facilities, and Chemical Plants (San Joaquin Valley Air Pollution Control District 2010), Thermally Enhanced Oil Recovery Wells (San Joaquin Valley Air Pollution Control District 2010a), Steam Generators (San Joaquin Valley Air Pollution Control District 2010b), and Front-line Organic Liquid Storage Tanks (San Joaquin Valley Air Pollution Control District 2011).

MM 4.7-2 Each Applicant covered by the Cap-and-Trade Program shall comply with applicable Cap and Trade regulations, and other applicable greenhouse gas emission control and reduction regulations as these may be adopted or amended over time, to reduce, avoid, mitigate and/or sequester greenhouse gas emissions from Project-related air emissions.

Page 4.7-40 of the EIR, Section 4.7.4, *is revised as follows:*

As mentioned previously, covered facilities associated with the Project are subject to CARB's GHG Cap-and-Trade Program, which imposes an enforceable cap on total covered statewide GHG emissions~~regulated facilities~~ that declines over time. Under the program, ~~the~~ facility operators covered under the program may~~will be required to~~ reduce GHG emissions within the facility, and will be required ~~or~~ to surrender GHG allowances~~,~~ or offset credits (up to the applicable limit) for any covered GHG emissions~~, or other compliance instruments to offset any permitted source GHG emission increases associated with the proposed Project~~. Similarly, suppliers of transportation fuels used in Project-related construction and other vehicle use associated with the Project must also surrender compliance instruments equal to the GHG emissions from the combustion of all fuels that they supply. This will ensure that the proposed Project's permitted and mobile source GHG emission increases will be consistent with California's Cap-and-Trade Program for reducing GHG emissions under AB 32.

Electrical generators with emissions equal to or greater than 25,000 metric tons carbon dioxide equivalent that ~~utilities~~ supply~~ing~~ power to the facilities also are subject to the GHG Cap-and-Trade Program. This will ensure that these emissions will be consistent with California's AB 32 program for reducing GHG emissions.

Page 4.8-84 of the EIR, Section 4.8.4, *is revised as follows:*

e. Applicants shall be required to perform all routine equipment maintenance at the well pad or other suitable locations (i.e., maintenance yards), and promptly collect and lawfully dispose of wastes in compliance with existing regulatory requirements.

Pages 4.8-84 through 4.8-85 of the EIR, Section 4.8.4, *is revised as follows:*

f. Berms and/or dikes (secondary containment) shall be constructed around the permanent above-ground bulk tanks and the foundations shall be installed with a passive leak detection system, so that potential spill materials shall be contained and collected in specified areas isolated from any water bodies. Tanks shall not be placed in areas subject to periodic flooding or washout. Compliance with laws and regulations is required, including compliance with hazardous materials and hazardous waste storage laws as applicable, including for secondary containment, such as Division of Oil, Gas and Geothermal ~~Resource~~Resources regulation (Title 14, C,C.R. § 1773.1), which requires secondary containment in "an engineered impoundment such as a catch basin, which can include natural topographic features, that is designed to capture fluid released from a production facility."

g. A sufficient supply of sorbent and barrier materials shall be maintained on construction sites consistent with the type and level of construction activities. Sorbent and barrier materials shall also be utilized to contain runoff from contaminated areas where appropriate.

1. Shovels and drums shall be stored at each well pad or be readily available. If small quantities of soil become contaminated, hand tools such as shovels or other appropriate tools, shall be used to collect the soil and the material shall be stored in storage drums. Large quantities of contaminated soil may be bio-remediated on-site or at a designated remediation facility, subject to government approval, or collected utilizing heavy equipment, and stored in drums or other suitable containers prior to disposal. Should contamination occur adjacent to staging areas as a result of runoff, shovels and/or heavy equipment shall be utilized to collect the contaminated material. Contaminated soil shall be disposed of in accordance with state and federal regulations.

Page 4.8-85 of the EIR, Section 4.8.4, *is revised as follows:*

h~~6~~. Applicants are encouraged, but not required, to use an alternate to silica sand as a proppant, after Division of Oil Gas and Geothermal Resources has determined that such an alternative does not introduce new hazards.

Page 4.8-86 of the EIR, Section 4.8.4, *is revised as follows:*

b. The Applicant shall notify the Kern County Environmental Health Division, Certified Union Program Agency (CUPA), surface landowner, and sensitive receptors located within 300 feet, of any hazardous materials/waste release ~~to the County~~ immediately upon discovery, and to other applicable agencies as required by other laws. The Applicant shall immediately contain the leak (e.g., by isolating or shutting down the leaking equipment), clean up contaminated media (e.g., soils), and repair the leak prior to recommencing operations. The Applicant shall report the status and progress of the leak repair and remediation work to the County and the CUPA on monthly intervals or predetermined intervals until the repair has been completed. Contaminated media shall be analyzed according to 22 C.C.R. §§ 66261.21-66261.24 for determination of appropriate hazardous waste disposal. Hazardous Waste Determination procedures are provided in 22 C.C.R. § 66262.11.

c. As part of the Site Plan, the Applicant shall identify the location and right of way for all pipelines to be used for the transport of oil, gas, and produced water, including pipelines that intersect the main transport line, based on existing data and using commercially available technology, and, based on the results of this analysis, shall identify any sensitive receptors within 300 feet of the pipeline for purposes of complying with Mitigation Measure 4.8-4. Mechanical integrity testing of all such pipeline lengths within 300 feet of a sensitive receptor shall be required pursuant to Mitigation Measure 4.8.4-a~~1~~.

Page 4.8-86 of the EIR, Section 4.8.4, *is revised as follows:*

MM 4.8-5 If, during grading or excavation work, the Applicant observes ~~visual or olfactory~~ evidence of contamination or if soil contamination is ~~otherwise~~ suspected, work near the excavation site shall be terminated, the work area cordoned off and appropriate health and safety

procedures implemented for the location by the contractor's Health and Safety Officer. Samples shall be collected by a trained and qualified individual. Analytical data from suspected contaminated material shall be reviewed by the contractor's Health and Safety Officer. If the sample testing determines that contamination is not present, work may proceed at the site; however, if contamination is detected above regulatory limits, the Kern County Public Health Services Department shall be notified. All actions related to encountering unanticipated hazardous materials at the site shall be documented and submitted to the Kern County Public Health Services Department.

MM 4.8-6 The Applicant shall implement measures to prevent the release or accidental spillage of solid waste, garbage, construction debris, sanitary waste, industrial waste, naturally occurring radioactive materials, oil and other petroleum products, and other wastes into water bodies or water sources, including all applicable practices included in the most up-to-date versions of the following documents ~~shall be followed~~: *Exemption of Oil and Gas Exploration and Production Wastes From Federal Hazardous Waste Regulations (EPA 2002).* Equivalent industry standards such as Environmental Protection for Onshore Oil and Gas Productions and Leases (American Petroleum Institute 2009) and related standards may also be utilized, provided that a professional engineer, certified industrial hygienist or certified safety professional certifies to the County that such alternative standards are as or more protective of human health and the environment, as compared to the standards in the referenced Environmental Protection Agency manual. The determination of when and the extent to which a measure is "practical" is to be made by the Applicant; however, all of the below activities must comply with all applicable legal requirements, including federal and state laws and regulations, County ordinances, and the mitigation measures included in this Final EIR.

Page 4.8-87 of the EIR, Section 4.8.4, *is revised as follows:*

b. Chemical containers should not be stored on bare ground, ~~exposed to the sun and moisture. Containers and labels are subject to degradation and punctured drums could leak contents on the ground. Chemical containers~~ and should be maintained in good condition and placed within secondary containment in case of a spill or high velocity puncture.

Page 4.8-96 of the EIR, Section 4.8.4, *is revised as follows:*

g. Ensure that all employees who would contact the acutely hazardous materials are trained and have exercised on the Spill Prevention, Control, and Countermeasures ~~P~~ Plan that addresses these chemicals.

Pages 4.9-146 through 4.9-147 of the EIR, Section 4.9.4, *are revised as follows:*

MM 4.9-2 A. Oil and Gas activities in Tier ~~I~~ 1 shall comply with the following:~~.~~

1. In areas subject to National Pollutant Discharge Elimination System stormwater permitting requirements, project applicants shall file a Notice of Intent to the State Water Resources Control Board to comply with the statewide General Permit for Discharges of Stormwater Associated with Construction Activities (Construction General Permit State Water Resources Quality Control Board Order No 2009-009-DWO) prior to undertaking all ground-disturbing activities

greater than one acre and shall prepare and implement a Stormwater Pollution Prevention Plan for construction activities on the Project site in accordance with the Construction General Permit. For facilities requiring coverage under the Construction General Permit, the site specific Stormwater Pollution Prevention Plan shall include measures to achieve the following objectives: (1) all pollutants and their sources, including sources of sediment associated with construction activity are controlled; (2) all non-stormwater discharges are identified and either eliminated, controlled and treated, (3) site Best Management Practices are effective and result in the reduction or elimination of pollutants in stormwater discharges and authorized non-stormwater discharges from construction activity and (4) stabilization Best Management Practices to reduce or eliminate pollutants after construction are completed. The Stormwater Pollution Prevention Plan shall be prepared by a qualified preparer and shall include the minimum Best Management Practices required for the identified risk level. The Stormwater Pollution Prevention Plan shall include a construction site monitoring program that identified requirements for dry weather visual observations of pollutants at all discharge locations and , as appropriate, depending on the project risk level, sampling of site effluent and receiving waters. A qualified Stormwater Pollution Prevention Plan practitioner shall be responsible for implementing and all monitoring for the Best Management Practices as well as all inspection, maintenance and repair activities at the project site. If applicable, each project shall also implement and fully comply with the Industrial Storm Water Permit (Order No 97-03-DWO) and Kern County Municipal Stormwater Permit (Order No 5-01-120). All plans under these requirements shall be submitted to Kern County Public Works for review and approval.

2. Any operator of a facility that meets the following requirements is not required to be covered by the Construction General Permit (State Water Regional Control Board Memorandum dated 5-18-2010):

a. discharges of stormwater runoff from oil and gas exploration, production, processing or treatment operations or transmission facilities, including field activities or operations that may be considered construction activity;

1. are not contaminated by contact with, or do not come into contact with, any overburden, raw material, intermediate products, finished product, byproduct or waste products;

2. are only contaminated by or only come into contact with sediment; and

3. pursuant to 40.C.F.R. § 122.26(c)(1) (iii) that do not contribute to a violation of a water quality standard.

Any change to this State Water Regional Control Board determination will require full compliance with National Pollutant Discharge Elimination System requirements.

32. Any operator not subject to National Pollutant Discharge Elimination System stormwater permitting requirements shall implement Best Management Practices during construction and operation. All selected practices shall be shown on a drainage implementation plan and self-certified as complete and feasible by a licensed professional qualified in drainage and flood

control issues. The plan shall be submitted to the Kern County Planning and Community Development department.

The following Best Management Practices shall be implemented and shown on the drainage implementation plan :

a. Utilizing established facilities design, construction or similar standards as appropriate (e.g., American Society for the Testing and Materials (ASTM) American Petroleum Institute (API)).

b. Implementation good housekeeping and maintenance practices:

   i. Preventing trash, waste materials and equipment from construction storm water.

   ii. Maintaining wellheads, compressors, tanks and pipelines in good condition without leaks or spills.

   iii. Designing and maintaining graded pads to not actively erode and discharge sediment

   iv. Maintaining vehicles in good working order

   v. Providing secondary containment for all –above –ground storage tanks and maintaining such containment features in good operating condition

c. Implementing spill prevention and response measures

   i. Utilizing preventative operating practices such as tank level monitoring, safe chemical handling and conducting regular inspections.

   ii. Developing and maintaining a spill response plan

   iii. Conducting spill response training for employees and have a process to ensure contractors have the necessary training

   iv. Maintaining spill response equipment on site.

d. Implementing material storage and management practices:

   i. Preventing unauthorized access

   ii. Utilizing “run-on” and “run-off” control berms and swales

iii. Stabilizing exposed slopes through vegetation and other appropriate methods (e.g., hay bales or rolls).

B. Oil and gas activities ~~in~~ outside Tier 1 shall comply with all applicable state and federal stormwater management laws. For any oil and gas activity outside Tier ~~I~~ 1 that is not subject to state or federal stormwater management laws, regulations or general permits, the Applicant shall prepare a drainage plan that is designed to minimize runoff and minimize the potential for impeding or redirecting 100-year flood flows. The drainage plan shall be prepared in accordance with the Kern County Grading Code, the Green Code and approved by the Kern County ~~Engineering, Surveying and Permit Services~~ Department of Public Works, Floodplain Management Section. The plan shall specify best management practices to prevent all construction pollutants from contacting stormwater, with the intent of keeping sedimentation or any other pollutants from moving offsite and into receiving waters. The requirements of the Plan shall be incorporated into design specifications. Recommended best management practices for the construction phase must be shown on a drainage plan, and shall include the following:

a. Erosion Control -

1. Scheduling of construction activities to avoid rain events.

2. Limiting vegetation removal to the minimum required.

b. Sediment Control -

1. Secure stockpiling of soil.

2. Installation of a stabilized construction entrance/exit and stabilization of disturbed areas.

c. Non-stormwater Control -

1. Proper fueling and maintenance of equipment and vehicles.

2. Proper concrete handling techniques.

d. Waste and Material Management -

1. Properly managing construction materials, designating construction staging areas in or around the Project site.

2. Stockpiling and disposing of demolition debris, concrete, and soil properly.

3. Prompt removal and proper disposal of litter.

4. Proper disposal of demolition debris, concrete and soil.

5. Proper protections for fueling and maintenance of equipment and vehicles.

6. Provide and maintain adequate secondary containment to ~~minmize~~minimize or eliminate pollutants from moving offsite and into receiving waters.

e. Post-Construction Stabilization -

1. Ensuring the stabilization of all disturbed soils per revegetation or application of a soil binder.

C. If construction activities will alter federal jurisdictional waters, project applicants shall comply with the federal Clean Water Act Section 404 and Section 401 permitting and certification requirements. If construction activities will alter state waters, project applicants shall comply with California Department of Fish and Wildlife Streambed Alteration requirements.

Pages 4.14-22 through 4.14-23 of the EIR, Section 4.14.4, *are revised as follows:*

MM 4.14-2 Applicant shall provide funding in the amount of $425 per Oil and Gas Conformity Review permit issued for the Sheriff's Rural Crime Unit. Funding shall be used for one Sergeant, two Senior Deputies (investigators), three Deputies, One Support Technician (clerical), and helicopter usage, based on the amount of funding provided by this permit mitigation fee. The fee shall be in addition to any general funds received by the Sheriff's Department. The Sheriff's department shall annually report on the expenditure of funds for the Rural Crimes Unit, including incident reports and response times. If other sources of funding for the Rural Crimes Unit are secured, then the mitigation fee amount shall be adjusted to pay only the gap between actual costs and funding provided from other sources. The first 100 permits issued in a calendar year to certified small producers under the Small Producers Program included in the Project shall not pay this mitigation fee based on their very low proportionate use of the Rural Crimes Unit (100 permits are estimated to generally be less than 5% of the permits issued annually).

Page 4.16-5 of the DEIR, Section 4.16.2, is revised as set forth below, as described in Section 12.4, revised Response 0015-7:

California Department of Transportation [Caltrans] facilities) during the AM and PM peak hours, as summarized in Tables 4.16-4 and 4.16-5. However, 18~~9~~ intersections are calculated to operate at an unacceptable LOS during the AM Peak and/or PM Peak hours under existing conditions (Appendix W).

Page 4.16-9 of the DEIR, Section 4.16.2, is revised as set forth below, as described in Section 12.4, revised Response 0015-8:

The existing AADT volumes and roadway capacities and the calculated volume to capacity (V/C) ratios are shown in Table 4.16-6. Of the 462~~3~~ roadway segments evaluated, the majority operate at an acceptable LOS (LOS D or better for roadways located within the non-metropolitan region of Kern County and LOS C or better for roadways located within the Bakersfield and Kern County metropolitan areas and for Caltrans facilities). However, 38~~0~~ segments are calculated to operate at an unacceptable LOS under existing conditions (Appendix W).

Pages 4.16-25 through 4.16-26 of the DEIR, Section 4.16.2, are revised as set forth below, as described in Section 12.4, revised Response 0015-9:

> Analysis of the potential impacts of future oil and gas development on the pavement condition of roadways within the Project Area involved estimating remaining pavement service life and assessing the need and timing for maintenance and rehabilitation improvements. The analysis was conducted for each of the study years (2015 through 2035) and included 640~~400~~ centerline miles of county roads and 545~~350~~ centerline miles of state routes.

Page 4.16-46 of the DEIR, Section 4.16.4, first full paragraph, is revised as set forth below, as described in Section 12.4, revised Response 0015-11:

> The addition of Project-related traffic to Year 2015 conditions would contribute to 18~~9~~ of the 101 intersections evaluated as operating below acceptable LOS (at LOS E or worse for intersections located within the non-metropolitan region of Kern County and LOS D or worse for intersections located within the Bakersfield and Kern County metropolitan areas and for Caltrans facilities Appendix W). These impacts would be significant.

Pages 4.16-46 through 4.16-47 of the DEIR, Section 4.16.4, are revised to replace existing Table 4.16-12 with new Table 4.16-12 set forth below, as described in Section 12.4, revised Responses 0015-12 and 0015-13:

Table 4.16-12: Intersection Impacts and Mitigation 2015

No.	Intersections [1]	Level of Service Impacts		Improvements Needed by 2015	Project % Share
		Ex 2015 NOG [2]	Ex. 2015		
15	West Side Hwy (SR 33) & Lerdo Hwy	-	X	Signal	39.1%
16	Lost Hills Rd & Lerdo Hwy	-	X	Signal, 1 EBL, 1 WBL	57.8%
107	Central Valley Hwy (SR 43) & Paso Robles Hwy (SR 46)	-	X	Signal	11.3%
~~112~~	~~Central Valley Hwy (SR 43) & Kimberlina Rd~~	~~-~~	~~X~~	~~1 EBL, 1 WBL~~	~~0.0%~~
212	Enos Ln (SR 43) & 7th Standard Rd	-	X	Signal, 1 EBL, 1 EBT, 1 WBL, 1 NBL	34.0%
215	West Side Hwy (SR 33) & Lokern Rd	-	X	Signal, 1 NBL, 1 SBL	26.4%
216	Lokern Rd & McKittrick Hwy (SR 58)	-	X	Signal	41.0%
220	Enos Ln (SR 43) & McKittrick Hwy (58)	-	X	Signal, 1 NBL	35.2%
225	Enos Ln (SR 43) & Stockdale Hwy	-	X	1 EBL, 1 WBL, 1 NBR, 1 SBL	30.7%

Table 4.16-12: Intersection Impacts and Mitigation 2015

No.	Intersections [1]	Level of Service Impacts		Improvements Needed by 2015	Project % Share
		Ex 2015 NOG [2]	Ex. 2015		
229	McKittrick Hwy (SR 58) & West Side Hwy (SR 33)	-	X	Signal	27.9%
232	Enos Ln (SR 43) & Panama Ln	-	X	Signal	45.7%
235	Tupman Rd & Taft Hwy (SR 119)	-	X	Signal	29.8%
236	Enos Ln (SR 43) & Taft Hwy (SR 119)	-	X	2 SBR	26.1%
243	McKittrick Hwy (SR 58) & Reserve Rd	-	X	Signal	18.5%-
244	Enos Ln (SR 43) & Rosedale Hwy (SR 58)	-	X	Signal, 1 SBL, 1 NBL	44.5%
251	Golf Course Rd & Taft Hwy (SR 119)	-	X	Signal, 1 WBT	28.8%
254	Tracy Ave & McKittrick Hwy (SR 58)	-	X	Signal	4.2%
367	Enos Ln (SR 43) & I-5 NB Off Ramp	-	X	1 NBT, 1 NBL	49.2%
1002	SR 33 & Midway Rd	-	X	Signal	20.6%

Source: Appendix W
Notes:
(1) Includes intersections operating below LOS C. X denotes scenario during which substandard operations would occur.
(2) NOG = Non-oil and gas-related traffic; Project – oil and gas-related traffic.
Key:
SR = State Route

Page 4.16-52 of the DEIR, Section 4.16.4, is revised to replace existing Table 4.16-16 with new Table 4.16-16 set forth below, as described in Section 12.4, revised Response 0015-14:

Table 4.16-16: Roadway Maintenance and Rehabilitation Summary, Years: 2015-2035

Project Area Roadways	Preventive Maintenance (lane miles)	Corrective Maintenance (lane miles)	Major Rehabilitation (lane miles)	Roadway Reconstruct (lane miles)
All Study Roadways	4,1800~~2,355~~	1,766~~992~~	1,419~~877~~	379~~288~~

Source: Appendix W

Pages 4.16-52 through 4.16-52 of the DEIR, Section 4.16.2, are revised as set forth below, as described in Section 12.4, revised Response 0015-15:

Oil and gas exploration and production activities that would be authorized under the proposed Project would add additional vehicle and truck trips to the roadway system. Pavement conditions for 1185~~750~~ centerline miles of state routes and county roads were evaluated for potential pavement condition impacts resulting from oil and gas truck traffic. Of this total, 593~~400~~ centerline miles were considered to be primary and secondary routes for oil and gas traffic. Specific volumes of oil and gas traffic were assigned to these primary and secondary routes and a nominal volume of Project-related traffic was assigned to non-primary and non-secondary routes The Traffic Study found that this additional traffic could contribute to the degradation of pavement conditions and the

service life for roadways in the Project Area, which could be a significant impact. Table 4.16-17 identifies the specific pavement condition improvements needed, by year, to maintain area roadways, along with the Project's fair-share contribution. Implementation of a road maintenance fee as described in MM 4.16-1 would reduce impacts to below a level of significance.

Page 4.16-77 of the DEIR, Section 4.16.4, is revised to modify the key that immediately follows Table 4.16-17, as described in Section 12.4, revised Response 0015-16, and as shown below:

Key:
(1) Most high volume roads have acceptable conditions.
SR = State Route

Pages 4.16-77 through 4.16-78 of the DEIR, Section 4.16.2, are revised as set forth below, as described in Section 12.4, revised Response 0015-17:

MM 4.16-1 The Applicant shall pay a road maintenance mitigation fee of $1,500 per permit for new wells to pay for roadway maintenance and related improvements to address wear and tear on roads caused by oil and gas industry traffic. The Kern County Public Works Department~~Roads department~~ shall annually report on the expenditure of funds from the Oil and Gas Roadway Maintenance Fee. Expenditures from the fund shall be as determined by the Roads Commissioner, using as a reference the list of roadways identified in the Environmental Impact Report as being used for traffic by the oil and gas industry. If Kern County secures funding from a sales tax dedicated to transportation funding, then the amount of the traffic mitigation fee shall be re-evaluated at the time the County becomes a self-help county. The first 100 permits issued in a calendar year to certified small producers under the Small Producers Program included in the Project shall not pay this mitigation fee based on their very low proportionate roadway use (100 permits are estimated to generally be less than 5% of the permits issued annually).

MM 4.16-2 Applicants who are using an arterial or collector, or Caltrans route, for access to a construction site, shall consult with the Kern County Public Works Department—~~Roads Division~~ to determine if a Construction Traffic Control Plan is required based on the timing and volume of larger vehicle rigs and the volume of traffic to address public safety and congestion management. If a Plan is required, the Applicant shall prepare and submit a Construction Traffic Control Plan to the Kern County Public Works~~Roads~~ Department and to the California Department of Transportation (District 9 office) for approval. The Construction Traffic Control Plan must be prepared in accordance with both the California Department of Transportation Manual on Uniform Traffic Control Devices and Work Area Traffic Control Handbook and shall include, but not be limited to, the following issues:

a. Timing of deliveries of heavy equipment and building materials.

b. Placing temporary signing, lighting, and traffic control devices as necessary to indicate the presence of heavy vehicles and construction traffic.

c. Determining the need for construction work hours and arrival/departure times outside peak traffic periods.

d. Ensuring access for emergency vehicles to the Project site.

e. Any temporary closure of travel lanes or disruptions to street segments and intersections during well development.

f. Maintaining access to adjacent property.

Page 4.16-80 of the DEIR, Section 4.16.4, second full paragraph, is revised as set forth below, as described in Section 12.4, revised Response 0015-18:

The introduction of construction-related traffic would have the potential to increase accident rates and could result in significant impacts; however, with the implementation of MM 4.16-1, and MM 4.16-2-, as listed above, would also require this information be provided in the Construction Traffic Control Plan for Kern County approval and would reduce potential impacts to less than significant

Page 4.16-82 of the DEIR, Section 4.16.4, last full paragraph, is revised as set forth below, as described in Section 12.4, revised Response 0015-19:

a. Year 2035 Intersection Operations

The addition of Project-related traffic contributes an additional 15~~to 34 of the 101~~ intersections that operate below acceptable LOS (LOS E or below for intersections located within the non-metropolitan region of Kern County and LOS D or below for intersections located within the Bakersfield and Kern County metropolitan areas and for Caltrans facilities, as stated in the Traffic Study) under Year 2035 conditions (Table 4.16-18). This impact would be significant. It should be noted, however, that, based on information provided in the Traffic Study, 3~~41~~ of these 101 intersections would also operate below acceptable LOS in the Year 2035 condition without the addition of Project-related traffic (Appendix W). Based on the conclusions of the Traffic Study, implementation of mitigation measure MM 4.16-2 would reduce the impact to below a level of significance.

Pages 4.16-83 through 4.16-84 of the DEIR, Section 4.16.4, are revised to replace existing Table 4.16-18 with new Table 4.16-18 set forth below, as described in Section 12.4, revised Response 0015-20:

Table 4.16-18: Cumulative Intersection Impacts and Mitigation

No.	Intersections [1]	Level of Service Impacts		Improvements Needed by 2035	Project % Share
		2035 NOG[2]	2035 NOG + Project		
7	West Side Hwy (SR 33) & Paso Robles Hwy (SR 46)	X	X	1 WBL	21.8%

Table 4.16-18: Cumulative Intersection Impacts and Mitigation

No.	Intersections [1]	Level of Service Impacts		Improvements Needed by 2035	Project % Share
		2035 NOG[2]	2035 NOG + Project		
8	Lost Hills Rd & Paso Robles Hwy (SR 46)	-	X	1 EBR, 1 WBL, 1 SBR, 1 NBR	35.0%
10	SR 5 SB Off Ramp & Paso Robles Hwy (SR 46)	X	X	1 WBT	30.5%
15	West Side Hwy (SR 33) & Lerdo Hwy	X	X	Signal, 1 SBL	39.1%
16	Lost Hills Rd & Lerdo Hwy	X	X	Signal, 1 EBL, 1 EBT, 1 WBL	57.8%
25	West Side Hwy (SR 33) & Lost Hills Rd	X	X	1 WBR	37.3%
28	SR 5 SB Off Ramp & 7th Standard Rd	-	X	Signal	20.2%
105	Magnolia Ave & Paso Robles Hwy (SR 46)	X	X	Signal, 1 EBL, 1 WBL, 1 NBL, 1 SBL	14.2%
107	Central Valley Hwy (SR 43) & Paso Robles Hwy (SR 46)	X	X	Signal, 1 EBL 1 NBL, 1 SBL	11.3%
~~112~~	~~Central Valley Hwy (SR 43) & Kimberlina Rd~~	X	X	~~1 EBL, 1 WBL~~	~~0.0%~~
210	Magnolia Ave & 7th Standard Rd	-	X	Signal, 1 EBT	42.0%
212	Enos Ln (SR 43) & 7th Standard Rd	X	X	Signal, 1 EBL, 1 EBT, 1 WBL, 1 WBT, 1 NBL, 1 NBT, 1 SBT	34.0%
215	West Side Hwy (SR 33) & Lokern Rd	X	X	Signal, 1 EBL, 1 WBL, 1 NBL, 1 SBL	26.4%
216	Lokern Rd & McKittrick Hwy (SR 58)	X	X	Signal, 1 WBR	41.0%
220	Enos Ln (SR 43) & McKittrick Hwy (58)	X	X	Signal, 1 NBL, 1 SBR, Stripe EB for Dedicated R-L	35.2%
225	Enos Ln (SR 43) & Stockdale Hwy	X	X	Signal, 1 EBL, 1 WBL, 1 NBR, 1 SBL	30.7%
229	McKittrick Hwy (SR 58) & West Side Hwy (SR 33)	X	X	Signal, 1 NBL, 1 NBT, 1 SBR, 1 SBT, Stripe EB for Dedicated R-L	27.9%
232	Enos Ln (SR 43) & Panama Ln	X	X	Signal	45.7%
235	Tupman Rd & Taft Hwy (SR 119)	X	X	Signal, 1 EBT, 1 EBR, 2 WBT, 1 WBR	29.8%
236	Enos Ln (SR 43) & Taft Hwy (SR 119)	X	X	1 EBL, 1 EBT, 1 EBR, 1 WBL, 1 WBT, 1 WBR, 1 NBR, 2 SBR	26.1%
237	Elk Hills Rd & Taft Hwy (SR 119)	X	X	Signal, 1 EBT, 1 WBT	26.9%
243	McKittrick Hwy (SR 58) & Reserve Rd	X	X	Signal	18.5%

Table 4.16-18: Cumulative Intersection Impacts and Mitigation

No.	Intersections (1)	Level of Service Impacts		Improvements Needed by 2035	Project % Share
		2035 NOG(2)	2035 NOG + Project		
244	Enos Ln (SR 43) & Rosedale Hwy (SR 58)	X	X	Signal, 1 SBL, 1 SBR, 1 NBL, 1 NBR	44.5%
250	Taft Hwy (SR 119) & Midway Rd	X	X	1 NBT, 1 SBT	19.4%
251	Golf Course Rd & Taft Hwy (SR 119)	X	X	Signal, 1 EBT, 2 WBT	28.8%
254	Tracy Ave & McKittrick Hwy (SR 58)	X	X	Signal, 1 EBT	4.2%
307	SR 65 & James Rd	X	X	1 WBR	6.1%
318	SR 99 SB Off Ramp & 7th Standard Rd	X	X	1 SBL	8.9%
367	Enos Ln (SR 43) & I-5 NB Off Ramp	X	X	1 NBT, 1 NBL	49.2%
387	I-5 NB On Ramp & Taft Hwy (SR 119)	X	X	Signal, 1 EBT	15.1%
393	SR 99 SB Off Ramp & Taft Hwy (SR 119)	X	X	1 EBR	4.5%
407	Old River Rd & Bear Mountain Blvd (SR 223)	X	X	1 WBL	14.6%
513	Old River Rd & Copus Rd	X	X	1 WBL	27.2%
1002	SR 33 & Midway Rd	X	X	Signal	20.6%

Source: Appendix W
Notes:
(1) Includes intersections operating below LOS C. X denotes scenario during which substandard operations would occur.
(2) NOG = Non-oil and gas-related traffic; Project – oil and gas-related traffic.
Key:

EBL = Eastbound Left-Turn
EBR = Eastbound Right-Turn
EBT = Eastbound Through
NBL = Northbound Left-Turn
NBR = Northbound Right-Turn
NBT = Northbound Through
SBL = Southbound Left-Turn
SBR = Southbound Right-Turn
SBT = Southbound Through
SR = State Route
WBL = Westbound Left-Turn
WBR = Westbound Right-Turn
WBT = Westbound Through

Page 4.17-22 of the EIR, Section 4.17.2, Table 4.17-21, *is revised as follows:*

Table 4.17-21: Oil and Gas Exploration and Production Demand Identified in Project Area UWMPs and AWMPs (AFY)

	2010	2015	2020	2025	2030	2035
Belridge 2012 AWMP	1,600	1,600	1,600	1,600	1,600	1,600
Lost Hills Water District 2012 AWMP	708	708	708	708	708	708
TOTAL	**2,308**	**2,308**	**2,308**	**2,308**	**2,308**	**2,308**

Source: Appendix T-1, Table ~~3~~4

Pages 4.17-47 through 4.17-48 of the EIR, Section 4.17.4, *are revised as follows:*

MM 4.17-1 Prior to the issuance of building permits for an operations and maintenance building, the method of sewage disposal shall be as required and approved by the Kern County Public Health Services Department. Compliance with this requirement will necessitate that the Project proponent obtain the necessary approvals for the design of the septic system from the Kern County ~~Engineering, Surveying and Permit Services~~ Department of Public Works. The septic system disposal field shall be located a minimum of 100 feet from a classified stream or 25 feet from a non-classified stream and shall not be located where it would impact State wetlands or special-status plant species.

Page 4.17-60 of the EIR, Section 4.17.4, *is revised as follows:*

MM 4.17-4 The Applicant shall work with the County on the Groundwater Sustainability Plan to increase Applicant use of reclaimed water and reduce the Applicant's use of municipal-and-industrial quality imported surface water or groundwater. The Applicant will provide copies of water use reports produced under ~~AB~~ SB 1281 to the Groundwater Management Agency, which will then integrate this information into the Groundwater Sustainability Plan required under the Sustainable Groundwater Management Act.

Page 5-14 of the EIR, Section 5.6, *first full paragraph, is revised as follows:*

Project Area oil and gas extraction energy efficiency is also affected by public regulatory and market factors. As discussed in Section 4.7, Greenhouse Gas Emissions and Global Climate Change, California has enacted landmark legislation to reduce the use of fossil fuels, reduce GHG emissions, and increase the efficiency of fossil fuel use for home and industrial heating and transportation. Covered ~~O~~oil and gas production facilities in California are~~is~~ regulated under the state's GHG cap and trade program. ~~These measures impose building construction and operational standards that increase incentives to reduce energy use in all state sectors, including oil and gas production.~~

Page 7-185 of the EIR, section 7.2.1, *Global Response Air-1, is revised to add the following additional text:*

Flare emissions are included in the calculation of Project air emissions in the air quality analysis in the DEIR. Flares are included in the calculation of emissions due to construction activity (emissions from constructing new flares) and in the calculation of emissions from operational activities (emissions from the flares themselves). Table 4.3-11a and Table 4.3-11b show baseline flares in the Project Area and the forecast of additional flares that will be necessary for Project build-out. DEIR at 4.3-75 – 76. Table 4.3-12 and 4.3-13 then show emissions of ROG, NOx, CO, SO2, PM10, and PM2.5 from

the construction of the flares required for Project build-out. DEIR at 4.3-77 – 78. Flares are also included in the calculation of Project emissions from operational activities. See DEIR at 4.3-83 (including VOCDD (flare) as part of the permitted emission sources evaluated in the air quality analysis). Table 4.3-20 shows the change in operational emissions for stationary source equipment due to Project implementation and includes VOCDD (flare) in its calculations. DEIR at 4.3-84. In addition, the air quality mitigation measures require no net increase in NOx, ROG, and PM10 emissions. Please also see GR Air-1 for a description of the air quality analysis in the EIR.

Flare emissions are also included in both operational scenarios in the single-well HRA in Appendix M and the revised HRA in Appendix M-1. Both HRAs included one new 100MMBtu/hour flare in their calculation of emissions from (1) oil processing and (2) natural gas combustion. See DEIR at 4.3-105 – 106, -108 and Appendix M and M-1. Please see GR Air-3 and GR Air-6 for a more detailed description of the HRA analyses.

In addition, flares and flaring emissions are subject to San Joaquin Valley Air Pollution Control District permitting requirements and rules. Any source that proposes to include a flare will be required to meet the applicable requirements when obtaining an Authority to Construct (ATC) permit or a Permit to Operate (PTO). SJVAPCD requires incorporation of feasible control technology and imposes operating limitations. SJVAPCD also requires the offsetting of emissions increases. Flares must also comply with SJVAPCD Rule 4311, which limits the emissions of NOx, VOC, and SOx from flares. Each new flare proposed within the jurisdiction of the SJVAPCD will be reviewed by the agency for necessary operating-hours limitations and other appropriate permit restrictions.

As to the suggestion that a limit on flaring should be implemented, most flares are used for emergency management only and thus a limit on the amount of time that flares could be in use would impede the flare's emergency response capability.

Page 7-190 of the EIR, Section 7.2.1, *Global Response Air-2, is revised as follows:*

Following issuance of the DEIR, the Applicant submitted additional documentation to the County for consideration as part of the Final EIR. The submittal pertaining to the OG-ERA is addressed below, and the Applicant's technical report is included as an Attachment to the Final EIR, as Appendix M-4.

Attachment 1: ~~Air Emission Technical~~ ANT Proposal: ~~on~~ Emissions Methodology Validation ~~Calculation~~ and Mitigation Menu~~Measure Options~~

On August ~~14 and~~ 24, 2015, the Applicant submitted a ~~two part~~final technical report requesting certain changes to emissions calculations, and asking for emission reduction credits for certain emission reduction measures. The County's technical consultants

completed an independent assessment of these requests, and the County also consulted with SJVAPCD regarding each of these requests. A summary of each request, and the staff decision as to the disposition of each request, is provided below:

Pages 7-226 through 7-227 of the EIR, Section 7.2.1, *Global Response Air-5, are revised as follows:*

Air-5: Cumulative Analysis: Health Risk Assessment

~~Multiple~~Some commenters suggested that the Health Risk Assessment in Appendix M of the DEIR was not adequate because it did not address the cumulative risk from drilling and operating multiple wells in close proximity to a sensitive receptor. For the reasons outlined below, the ~~HR~~HRA in the DEIR in Appendix M, and the revised HRA in Appendix M-1 ~~together are sufficient to,~~ show that impacts to sensitive receptors from the construction of a single well proximate to a sensitive use will be mitigated to less than significant with implementation of MM 4.3-5.

As explained in GR Air-3 and GR Air-7, the HRA conducted for the DEIR provides a conservative analysis. For example, the HRA included the following conservative assumptions:

- All receptor locations, including the closest receptor, were assumed to be sensitive receptors;
- All phases of construction were assumed to occur simultaneously;
- All equipment was assumed to operate simultaneously;
- All emissions were assumed to occur on a shared fence line with the nearest receptor; and
- Certain co-located equipment was assumed to be present for each wellhead.

The HRA conducted for the DEIR also uses the HARP2 model which, as explained in GR Air-7, results in significantly more conservative estimates of risk.

Even with these conservative assumptions and models, the HRA for the DEIR found that in no case did the proposed Project exceed, or even approach, the 20 in one million risk threshold established by San Joaquin Valley Air Pollution Control District. In addition, the lower 10 in one million threshold utilized in the original HRA was only exceeded by drilling a 10,000 foot well in the Western Subarea in the early years of the Project. Thus, MM 4.3-5 was implemented to require a setback of 367 feet from sensitive receptors. This mitigation measure and the conservative nature of the HRA analysis will assure that no sensitive receptors will be exposed to hazardous air pollutant emissions that would result in a health risk exceeding applicable thresholds.

As explained in GR Air-6, a revised HRA was conducted for the FEIR in response to comments from the SJVAPCD. The results of the revised HRA with SJVAPCD's suggested assumptions, including making the analysis more conservative by assuming that wells are drilled to 15,000 feet rather than 10,000 feet, resulted in a very low risk level requiring no setback. The revised HRA analysis in the FEIR confirms the conservative nature of the HRA performed for the DEIR. Despite the results of the revised HRA, the EIR will maintain the setbacks established in MM 4.3-5.

As explained in both HRAs, the major risk driver from the Project is diesel particulate matter from well drilling activities which accounts for nearly 99% of the toxic risk from the Project. Operational activities add negligibly to the risk outcome and thus, a sensitive receptor near several operational wells would not be subject to hardly any incremental risk. Instead, it would require a receptor to be near multiple wells all being drilled at the same time to appreciably increase risk in a way to approach the risk threshold.

The conservative nature of both HRAs, the implementation of MM 4.3-5, and the risk profile for the Project being driven by DPM from well drilling activities suggest that the DEIR adequately protects a sensitive receptor in close proximity to multiple wells.

Cumulative Health Risk Assessment, Appendix M-2

Due to a drafting error during the preparation of Volume 3, Chapter 7, some responses in that chapter (Global Response Air-6 and responses to comments 0002-029, -034, -037 and -038) referred to a Cumulative Health Risk Assessment, Appendix M-2. These references were erroneous at the time that Volumes 3 and 4 were published, since at that time, no cumulative Health Risk Assessment had been prepared.

Subsequent to the publication of Volumes 3 and 4, the Cumulative Health Risk Assessment anticipated in those responses has been prepared. It is attached as Appendix M-2 to Volume 5. This HRA specifically studied the potential cumulative health impacts associated with multiple well drilling operations occurring in proximity to a sensitive receptor. The analysis included in Appendix M-2 provides further quantitative confirmation that cumulative impacts from multiple well drilling operations that occur near sensitive receptors, in the conservative 48-well drilling scenario described below and analyzed in Appendix M-2, do not create significant air quality risks based on the San Joaquin Valley Air Pollution Control District's risk assessment methodology.

The cumulative HRA followed the guidelines of California's Office of Environmental Health Hazard Assessment (OEHHA), as most recently amended in March 2015. The HRA assumes that up to forty-eight (48) individual 13,000' wells would be drilled in concentric circles around a sensitive receptor. Twelve wells (12) would be 1/8th of one mile away from the school, 12 additional wells would be 1/4th of one mile away, 12 more wells would be 3/4th of one mile away and 12 more would be one mile away. Each well is assumed to have an associated drilling mud sump and emissions from the sump are

included in the analysis as well. Although there are not typically operational emissions from a completed well itself, in order to calculate a very conservative health risk assessment, the cumulative HRA assumes that potential well re-work could occur every other year.

As recommended by the OEHHA Guidelines, HARP2 was used to perform a refined HRA by following three modules: a dispersion model, an exposure/dose module and a risk module. The results of the cumulative modeling study indicate results of a 9.3 in one million potential cancer risk. This result is less than half of the 20 in one million risk significance threshold established by San Joaquin Valley Air Pollution Control District. This quantitative Cumulative HRA further confirms the earlier qualitative conclusions reached in the EIR.

Page 7-234 of the EIR, Section 7.2.1, *Global Response Air-9,* third paragraph, is revised as follows:

Commenters also pointed to CCST's finding that residents near active oil and gas wells may have a higher risk of being exposed to harmful chemicals, and as a result could have a higher risk of developing health problems. Commenters note that CCST found that significant exposures could occur as far as two miles from an active well. In the analysis performed for this Project, emissions were assumed to occur from the drilling of 48~~42~~ oil wells at distances of 1/8 ~~½~~ mile, ¼ mile, ¾ mile, and one mile~~, and two miles~~ away from a sensitive receptor.

Page 7-237 of the EIR, Section 7.2.1, *Global Response Air-10, first full paragraph on page, is revised as follows:*

The most stringent of these setbacks apply. For example, if the construction HRA setback is 296 feet but the applicable noise setback is 3270 feet, then the required setback is 327~~9~~0 feet.

Page 7-237 of the EIR, Section 7.2.1, *Global Response Air-10, final paragraph on page, is revised as follows:*

Setback distances represent the distances necessary to achieve full mitigation. When multiple setback distances apply, the Applicant is required to comply with the most rigorous. For example, during construction, if the Applicant is required to locate the well site 367 feet away from the nearest sensitive receptor under Mitigation Measure 4.3-5 and is required to locate the well ~~190~~ 210 feet away from the nearest sensitive receptor under Mitigation Measure 4.12-2, the Applicant will be required to comply with the larger setback requirement. Complying with the larger setback requirement ensures that mitigation is achieved for both impacts.

Pages 7-238 through 7-240, Section 7.2.1, *Global Response Air-11, are revised as follows:*

Some commenters questioned the DEIR's analysis with regard to potential impacts, including air emissions and health risks, from the use of sumps, pits and ponds. As explained in more detail below, the DEIR relied on the best and most relevant data for the analysis of this particular issue.

What are Sumps, Pits & Ponds?

As an initial matter, it is helpful to explain the terms "sump" "pit" and "pond" as used in this EIR.
The terms were often used interchangeably and incorrectly by commenters, and they are not currently specifically defined in applicable regulations. However, for purpose of this EIR, the terms "sump" and "pit" are one ~~in~~ and the same, and refer to an excavated depression in the ground which collects crude oil, produced water, or solids, such as drilling muds or cuttings, in oil producing fields. The terms "drilling sump" and "drilling pit" are utilized interchangeably in this EIR to refer to the collection of drilling fluids and cuttings (collectively known as "drilling muds"), which are produced during drilling operations. The term "operation sumps" is used to refer to sumps that are utilized to store fluids and solids, which are produced during the life of the operational well as well as potential workover activities. (DEIR at 3-47).

By contrast, the terms "evaporation and percolation ponds," or "perc ponds" refers to a type of storage for produced water, where it is allowed to percolate into the soil and / or evaporate into the air. A percolation pond is used to dispose of water associated with hydrocarbon production by percolation into the soil. A natural or artificial evaporation pond is a pond with a large surface area that is designed to efficiently evaporate water by exposure to sunlight. (DEIR at 3-47)

The primary difference between sumps and pits on the one hand and ponds on the other is that sumps and pits are co-located with wellhead sites. Ponds, on the other hand, are typically centralized facilities which collect fluids from multiple operators at a location that is not related to the location of drilling operations. *See also* Comment on DEIR No. 83-25 ("CVRWQCB staff uses the term 'pond' for an unlined impoundment for disposal of produced water via evaporation and percolation … CVRWQCB staff uses the words 'drilling mud pits' for an unlined impoundment used by the industry to contain drilling fluid and cuttings while drilling a well.") Drilling sumps, operation sumps, and evaporation and percolation ponds are subject to state and, where applicable, federal permit requirements; e.g., waste discharge requirements from CVRWQCB.

The Analysis of Sumps, Pits & Ponds in the Health Risk Assessment

Some commenters stated that because the Health Risk Assessment took into consideration the use of sumps and pits in its analysis (commenters refer only to sumps but, as noted above, this EIR uses the terms sumps and pits interchangeably), it should have also taken into consideration the use of ponds. As explained above, ponds are not necessarily co-located with wellheads or drilling sites. As a result, they are not relevant to the HRA

analysis, which is primarily used to determine the appropriate setback ~~from~~ for activities which occur on the well pad and thus collectively affect the health risk of nearby individuals ~~considered part of the Project~~. The Health Risk Assessment (Appendix M) included potential fugitive toxic emissions from both a drilling mud sump during drilling operations and a 30' x 30' ground level sump that was assumed to exist as part of on-going oil and gas processing operations. Emissions from ~~such a~~ these sumps were very conservatively assumed to have a continuous volatile organic compound (VOC) release rate of 0.01 pounds per hour. Those VOCs were further assumed to contain potentially toxic components typically found in crude oil. The compounds modeled from the sump were: ethylbenzene, benzene, xylene, toluene, cyclohexane, and n-hexane.

~~This~~ In addition, a hydrocarbon sump would be expected to have significantly higher emissions than a produced water disposal pond~~s~~. Produced water is only allowed to be disposed of in a pond if it meets the SJVAPCD definition of clean produced water: "water containing less than 35 milligrams of VOC per liter." *See* SJVAPCD Rule 2020 (exempting percolation ponds from permit requirements): Rule 1020 (defining clean produced water); Rule 4402 (crude oil production sumps). Thus, clean produced water disposed of in a pond would have minimal emissions. In addition, DOGGR's final SB 4 regulations prohibit disposal or storage of produced water from wells that have been subjected to well stimulation treatment in sumps or pits. 14 Cal. Code Regs. § 1786. Thus, only produced water from wells not receiving well stimulation can be disposed in sumps and ponds and this produced water would not contain any constituents of concern from WST. Thus, the HRA analysis considering well drilling activities in conjunction with a drilling sump and operational activities in conjunction with an operation sump is the most conservative assessment of the maximum health risk that a sensitive receptor would face due to Project implementation. ~~Pond facilities are not considered to be within the scope of the Project, and would be subject to separate permitting (and perhaps HRA analysis) if and when any new pond facilities are proposed in the Project Area. (*See* DEIR at Attachment A to Chapter 3, which notes that drilling pits and sumps will be subject to conformity review, but does not reference ponds).~~

The Analysis and Need to Forecast with Regard to the Number of Sumps, Pits and Ponds

Some commenters argued that the DEIR improperly did not include an estimate as to how many pits and sumps would be required to meet the wastewater disposal demand of the wells within the Project, or an analysis of impacts related to that number. The analysis in the DEIR with regard to impacts from sumps was, contrary to commenters' assertions, actually overestimated. For example, as explained above the HRA assumed that there would be one co-located drilling mud sump for every well drilled and one operational sump for each operational activity (and accounted for assumptions about leaks from such sumps), and established the setbacks accordingly. In practice, multiple well-heads will usually share a sump or pit, meaning the HRA was actually conservative in terms of the presumed number of sumps going forward. This is compounded by the fact that in recent years the use of drilling sumps has been reduced in the Project Area because well field operators increasingly utilize closed-loop drilling systems that avoid mud or fluid discharges to land during the well drilling process. Furthermore, at least with respect to produced water from

well stimulation treatment operations, DOGGR's final SB 4 regulations prohibit disposal or storage of produced water in sumps or pits. 14 Cal. Code Regs. § 1786. Therefore, the overall number of such sumps, ~~and~~ pits, and ponds is expected to decrease in the future.

The Analysis of Sumps, Pits & Ponds for Purposes of Potential Air Quality Impacts

Some commenters suggested~~noted~~ that sumps, pits and ponds were not accounted for in the analysis of certain impacts, including air quality. It is correct that sumps, pits and ponds were not included directly. However, air emissions are either accounted for indirectly, or are negligible.

Emissions from sumps and pits co-located with well sites are captured in the 10% allowance included in the emissions estimate for permit exempt equipment. *See, e.g.* DEIR at 4.3-85, -88. In addition, sumps are subject to SJVAPCD Rule 4402 (Crude Oil Production Sumps). Thus, any emissions from sumps are expected to be negligible.

Percolation ponds are exempt from SJVAPCD permit requirements due to their minimal air emissions. *See* SJVAPCD Compliance Department Com 2045- Rule 2020 (Permit Exemptions) Draft Policy Statement, dated October 4, 2006 (stating that "[p]onds are exempt because they hold clean produced water and are not a source of significant VOC emissions"); Rule 2020, section 6.15. Rule 1010, section 3.35 defines ponds as "an excavation used for the storage of clean produced water as defined in this rule prior to reuse or disposal." Clean produced water is defined in SJVAPCD Rule 1010, section 3.10 as "water containing less than 35 milligrams of VOC per liter." Thirty-five (35) milligrams of VOC is 0.0035% VOC, or in other words, ponds contain more than 99.99% water with insignificant amounts of VOC. To the extent there are emissions from percolation ponds, they are captured in the 10% allowance for permit exempt equipment in the air quality analysis in the EIR~~are not included in the 10% allowance, but air emissions from the produced water in such ponds is negligible (because there are not many light end constituents that are volatile), and~~. Emissions would be expected to be less than ~~pits~~ sumps, as noted above. In addition, as discussed above, percolation ponds are likely to decrease in number due to the recent SB4 regulations. ~~percolation pond facilities are not within the scope of the Project. (*See* DEIR at Attachment A to Chapter 3.)~~

For additional information about the permitting and potential water quality impacts from sumps, pits and ponds, please refer to Global Response Water-1.

Pages 7-276 through 7-283 of the EIR, Section 7.2.1, *are revised to supplement Global Response Noise-1: Noise and Vibration as set forth below:*

Noise-1: Noise and Vibration

"A threshold of significance is an identifiable, quantitative, qualitative, or performance level of a particular environmental effect, non-compliance with which means the effect will normally be determined to be significant by the agency and compliance with which means the effect normally will be determined to be less than significant." (CEQA Guidelines, § 15064.7 subd. (a))

Like many lead agencies, Kern County has exercised its discretion to formulate significance thresholds by using language from Appendix G of the CEQA Guidelines. Consistent with the CEQA Guidelines, Kern County has adopted the following thresholds of significance (among others) to analyze noise impacts from project construction and operation: (1) whether a project would expose persons to, or generate noise levels in excess of standards in the local general plan or noise ordinance or applicable standards of other agencies; (2) whether a project would create a substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project; and (3) whether a project would create a permanent increase in ambient noise levels in the project vicinity above levels existing without the project. (DEIR, p. 4.2-18.)

The first threshold applies to both project construction and project operation, and addresses whether the proposed project would result in "exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies standard." This threshold clearly specifies that noise impacts should be analyzed against the standards established in the local general plan. The Kern County General Plan, as well as the general plans for each of the incorporated cities within the project area, applies an exterior noise level standard of 65 dB DNL[1] for noise-sensitive receptors. (DEIR, pp. 4.2-8, 4.2-18; Noise Assessment (September 2015), p. 14.) Therefore, a project would normally be considered to have a significant impact if it would result in exposure of persons to exterior noise levels in excess of 65 dB DNL/CNEL.

The second threshold applies to project construction, and addresses whether the proposed project would create a "substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project." The third threshold applies to project operation, and addresses whether the proposed project would create a "substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project." While these two thresholds qualitatively assess temporary or permanent increases over ambient noise without the project, the lead agency – Kern County – maintains discretion to determine the quantitative threshold applicable to each project. For this project, the County applied a quantitative threshold of 65 dB DNL/CNEL, which represents the exterior noise levels the County has deemed to be acceptable for noise sensitive areas. (DEIR, pp. 8-9; General Plan, pp. 145-150.) Where a project would exceed 65 dB DNL/CNEL, noise mitigation measures would be required. (General Plan, p. 148.)

In addition, the County noise ordinance exempts from restriction all daytime construction noise that occurs between 6:00 AM and 9:00 PM on weekdays, and between 8:00 AM and 9:00 PM on weekends. For nighttime construction noise occurring between 9:00 PM and 6:00 AM on weekdays and between 9:00 PM and 8:00 AM on weekdays, the Kern County noise ordinance provides that construction noise cannot be audible within 150 feet of the construction site and 1,000 feet of an occupied residential building. (DEIR, p. 4.12-20.) These exemptions are typical of city and county noise ordinances and

[1] DNL is the day/night average sound level, which is the average equivalent sound level during a 24-hour day, obtained after addition of ten decibels to sound levels in the night after 10:00 pm and before 7:00 am. The DNL represents the existing ambient conditions, as measured over a 24 hour period.

reflect the recognition that construction-related noise is temporary in character, is inherently noisy, is generally acceptable when limited to daylight hours, and is part of what residents expect as part of a typical urban noise environment.

A number of commenters challenged the County's selected noise thresholds. As an initial matter, where an agency's significance thresholds are challenged by a project opponent, the standard of review for a court reviewing the selected threshold is the "substantial evidence" standard, meaning the court must give deference to the lead agency's decision to select particular significance thresholds, including the threshold for construction noise. (See *National Parks and Conservation Association v. County of Riverside* (1999) 71 Cal.App.4th 1341, 1358 (*National Parks*)[applying the substantial evidence test to review of an agency's decision to select particular thresholds for an EIR]; *Mount Shasta Bioregional Ecology Center v. County of Siskiyou* (2012) 210 Cal.App.4th 184, 204-207 [upholding analysis of increased noise generated by project based on significance thresholds adapted from other agencies]; *Eureka Citizens for Responsible Government v. City of Eureka* (2007) 147 Cal.App.4th 357, 371-374 (*Eureka Citizens*) [deferring to city's determination that noise analysis was performed in a manner consistent with general plan policy]; *Sierra Club v. Tahoe Regional Planning Agency* (E. D. Cal. 2013) 916 F.Supp.2d 1098, 1146-1151 (*Sierra Club*) [upholding agencies' application of significance threshold for construction noise].) As discussed in the DEIR and in these responses to comments, the County's noise thresholds are supported by substantial evidence. As such, they are to be accorded great deference.

Those commenters challenging the thresholds generally attack the quantitative 65 dB DNL threshold long used by the County in its CEQA documents, which is based on the Noise Element in the County's General Plan, to measure whether the project would create substantial temporary or permanent unacceptable increases in ambient noise levels in the project vicinity above levels existing without the project. Rather than rely on the County's adopted General Plan noise standard of 65 dB DNL, which was developed to protect County residents from excessive noise, commenters suggest the County should have applied an alternative quantitative threshold that analyzes whether a project would create a 5 dB increase over the existing ambient noise level. CEQA does not require the County to adopt such threshold. To the contrary, CEQA vests the lead agency with substantial discretion in determining the appropriate threshold of significance to evaluate the severity of a particular impact. (See CEQA Guidelines, § 15064, subd. (b); *Save Cuyama Valley v. County of Santa Barbara* (2013) 213 Cal.App.4th 1059, 1068 [explaining agency discretion to fashion significance thresholds].) As explained in the CEQA Guidelines, "[t]he determination of whether a project may have a significant effect on the environment calls for careful judgment on the part of the public agency involved, based to the extent possible on scientific and factual data. An ironclad definition of significant effect is not always possible because the significance of an activity may vary with the setting. For example, an activity which may not be significant in an urban area may be significant in a rural area." (CEQA Guidelines, § 15064, subd. (b).)

Importantly, case law clearly provides that a lead agency does not run afoul of CEQA by rejecting different thresholds proposed by a project opponent. (See *Citizens for Responsible Equitable Environmental Development v. City of Chula Vista* (2011) 197 Cal.App.4th 327, 335-336 ("*CREED*") [rejecting petitioners' argument that the City erred by not applying a different significance threshold];

California Oak Foundation v. Regents of University of California (2010) 188 Cal.App.4th 227, 282 [rejecting petitioner's argument that a lead agency used the incorrect significance threshold in evaluating the biological significance of tree impacts]; *National Parks, supra,* 71 Cal.App.4th at pp. 1356-1357 [upholding a biological significance threshold used by Riverside County as supported by substantial evidence].) Moreover, CEQA does not require an agency to set thresholds that would essentially establish a "one molecule rule" by which a project's noise impacts would be deemed significant if the project's noise levels exceeds the background ambient levels by five decibels. (*Communities for a Better Environment v. California Resources Agency* (2002) 103 Cal.App.4th 98, 120.)

To the extent commenters suggest it is inappropriate for the County to rely on regulatory noise standards, such as the County's General Plan, to analyze noise impacts, commenters are incorrect. Ordinances, plans, policies, and regulations adopted by a lead agency, or adapted from those of another agency with expertise over the resource at issue, can and often do serve as the basis for setting thresholds of significance. (See *North Coast Rivers Alliance v. Marin Mun. Water Dist.* (2013) 216 Cal.App.4th 614, 651 [upholding analysis of greenhouse gas emission based on consistency with county's emissions reduction goals]; *National Parks, supra,* 71 Cal.App.4that p. 1353 [upholding EIR's use of county noise standards for assessing significance of project's noise impacts]; *Mira Mar Mobile Community v. City of Oceanside* (2004) 119 Cal.App.4th 477, 492-493 [upholding thresholds of significance for aesthetic impacts derived from city's local coastal program policies; *Sierra Club, supra,* 916 F.Supp.2d at pp. 1146-1151 [upholding significance threshold that limited hours during which construction could occur, but did not otherwise impose limit on construction noise because county's approach was consistent with noise ordinance.)

CEQA case law also endorses a lead agency's use of existing environmental standards or regulations as thresholds of significance. (See *Tracy First v. City of Tracy* (2009) 177 Cal.App.4th 912, 932-934 [upholding determination that energy impact of project was less than significant because the project achieved energy efficiencies greater than those required by California Energy Efficiency Standards]; *Cadiz Land Co. v. Rail Cycle* (2000) 83 Cal.App.4th 74, 106 [upholding finding that incremental impacts of criteria pollutants on sensitive crops would be less than significant based on National Ambient Air Quality Standards promulgated to protect public health and welfare from adverse effects of a pollutant]; *Protect The Historic Amador Waterways v. Amador Water Agency* (2004) 116 Cal.App.4th 1099, 1107 ["thresholds can be drawn from existing environmental standards, such as other statutes or regulations"]; *Rialto Citizens for Responsible Growth v. City of Rialto* (2012) 208 Cal.App.4th 899, 932-934 [upholding use of thresholds of significance recommended by SCAQMD to assess air quality impacts]; *Oakland Heritage Alliance v. City of Oakland* (2011) 195 Cal.App.4th 884, 896 [agency has discretion to rely on adopted standards to serve as significance thresholds for a particular project].)

In sum, the EIR properly relied on its General Plan and noise ordinance to establish thresholds of significance for noise impacts.

One commenter attached an Acoustical Review of the DEIR, prepared by Charles M. Salter Associates, Inc. (Salter Report). The Salter Report alleges that the County's noise analysis ignores

increases to ambient noise levels, does not adequately mitigate noise and vibration impacts, and fails to analyze interior noise, nighttime noise and single event noise. The County reviewed the Salter Report and determined that it does not constitute substantial evidence of noise impacts not already addressed in the DEIR. Commenter's citations to its own expert to discredit the County's environmental and noise experts constitutes nothing more than a classic "battle of the experts." Under established CEQA precedent, lead agencies may accept the determinations and conclusions reached by the expert or experts that prepared the EIR, even though other conclusions also might be reached by other experts. (See *Center for Biological Diversity v. Dept. of Fish & Wildlife* (2014) 224 Cal.App.4th 1105, 1179-1180; *Eureka Citizens, supra,* 147 Cal.App.4th at pp. 371-72; *Greenebaum v. City of Los Angeles* (1984) 153 Cal.App.3d 391, 412 [it is not an "abuse of discretion" for a public agency "to give more weight to one set of 'experts' than to another"].) Here, the County properly relied upon the standards articulated in its General Plan and Noise Ordinance, and upon the analysis and conclusions of its noise expert and EIR consultant.

Some commenters attempt to frame the EIR's use of regulatory thresholds as a "baseline" issue. The EIR's selection of the appropriate significance thresholds by which to measure a project's impacts is not akin to the DEIR's description of the existing environmental conditions, or the "baseline." As such, the law governing a lead agency's selection of thresholds differs vastly from the case law governing a lead agency's description of the environmental baseline. The "baseline" cases cited by commenters (*Communities for Better Environment v. South Coast Air Quality Management Dist.* (2010) 48 Cal.4th 310 (*Communities for Better Environment*); *Environmental Planning & Information Council v. County of El Dorado* (1982) 131 Cal.App.3d 350 (*EPIC*)) are clearly inapplicable to the County's selection of the noise thresholds for the proposed project. In *Communities for Better Environment*, the EIR for a refinery project relied upon the permitted emissions capacity as the "baseline" rather than the refinery's actual emissions. The Supreme Court held that the maximum amount of emissions allowed under the refinery's existing permit was not part of the baseline against which future environmental impacts should be assessed. The Court did not address an agency's reliance on its General Plan standards as significance thresholds. Similarly, in *EPIC*, the Court of Appeal analyzed whether a project to update the county's general plan should set the baseline by the existing general plan or on the "actual environment upon which the proposal will operate." The Court did not consider whether the county could rely on its regulations to establish thresholds of significance.

In any event, here the County's EIR did quantify and disclose the on-site existing average ambient noise ~~emissions~~exposure. As explained in the DEIR, ambient noise monitoring was conducted between January 7, 2015 and January 21, 2015, at 18 locations within the Project Area. Noise monitoring sites were selected to represent typical acoustic settings within the Project Area where oil and gas exploration and production activities either already occur or could occur in the future, and included six locations in the Western Subarea, six locations in the Central Subarea, and six locations in the Eastern Subarea. (DEIR, p. 4.12-4; Noise Assessment, p. 8.) As shown in Table 4.12-3 of the DEIR, the average DNL for the project area, or the average ambient baseline condition, is 54.7 dB DNL. (DEIR, p. 4.12-5; see also, Noise Assessment (September 2015), Table V, p.9.)

In addition, existing traffic noise levels along US 5 and along state highways in the project area were calculated to provide a representative sampling of the range of existing traffic-related noise levels

along major roadways within the project area. (Noise Assessment (September 2015), p. 10.) A total of 270 roadway segments were analyzed for existing traffic noise exposure. Traffic noise levels were calculated using the FHWA Highway Traffic Noise Production Model. Table VI in the Noise Assessment prepared for the project summarizes existing annual average (or baseline) traffic noise exposure. In addition, existing noise levels generated by the three railroad operations in the project area (the Union Pacific Railroad, Burlington Northern Santa Fe Railway and San Joaquin Valley Railroad) were calculated by Brown-Buntin Associates and are reported in Table VII of the Noise Assessment. (Noise Assessment (September 2015), Table VII, p. 11.) The Noise Assessment also addressed existing aircraft noise levels and reasonably foreseeable noise from the high speed train proposed by the California High Speed Rail Authority. (Noise Assessment (September 2015), p. 12.)

After disclosing the existing ambient noise in the Project Area, the DEIR disclosed the construction and operational noise that is expected to be generated by the project. Although noise impacts may vary for each location of future oil and gas construction and operational activities, the DEIR analyzed the potential project activities (both construction and operations) that may occur at any given time. (DEIR, p. 4.12-18.) As explained in the DEIR and further articulated in the Noise Assessment prepared for the project, project-related construction noise levels could exceed 60 dB CNEL at distances of 800 to 3,000 feet. (DEIR, p. 4.2-19.) Table 4.12-11 in the DEIR provides estimated project construction noise levels caused by well pad preparation, Table 4.12-12 sets forth estimated project construction noise levels for well drilling, and Table 4.12-13 presents estimated project construction noise levels for hydraulic fracturing (DEIR, pp. 4.2-26 to 4.2-17.) The Noise Assessment further articulates the anticipated noise generated by typical project construction equipment at distances of 50 to 100 feet from a receptor. (Noise Assessment (September 2015), p. 20.)

For project operations, the DEIR analyzed noise exposure that would be caused by gas and production wells and related accessory activities. Here, the DEIR disclosed that well production (electric power) could exceed 60 dB CNEL at a distance of 70 feet and well production (diesel power) could exceed 60 dB CNEL at a distance of 190 feet. (DEIR, p. 4.12-20.) The Noise Assessment further disclosed the project-related noise exposure caused by each project-related noise source. Table XI in the Noise Assessment provides distances to the 60 dB DNL and 65 dB DNL contours for individual project related noise sources such as drilling, hydraulic fracturing and well production. (Noise Assessment (September 2015), p. 17.)

While the DEIR discloses that the increased noise from the project would constitute a change to existing on-site conditions, this increase alone is not sufficient to support a significance determination because the County has determined that exterior noise levels at or below 65 DNL are not harmful. The DEIR therefore inquires whether the project's noise generation is significant when measured against the County's noise threshold as codified in its General Plan. (DEIR, pp 18-20, 25-28.) Neither CEQA nor any of the CEQA "baseline" cases cited by commenters prohibits the use of these EIR inquiries. To the contrary, the CEQA Guidelines expressly allow a lead agency to use its discretion to select the appropriate factors for determining the significance of impacts. (See CEQA Guidelines § 15064(b) ["The determination of whether a project may have a significant effect on the environment calls for careful judgment on the part of the public agency involved . . ."].) Guidelines section 15125(e)

also authorizes comparison of a project to an adopted plan, provided the analysis examines "the existing physical conditions . . . as well as the potential future conditions discussed in the plan."

Moreover, commenters do not show how the use of the EIR's inquiries precluded, or could preclude, public participation or informed decision-making. The EIR' s noise analysis is supported by substantial evidence; does not understate the Project' s actual noise impacts; and examines and discloses existing ambient noise conditions and the significance of the Project's emissions based on the methodology derived from the County's General Plan. It is only when an EIR "fails to include relevant information and precludes informed decision-making and public participation" that a prejudicial abuse of discretion arises. (*Save Our Peninsula Committee v. Monterey County Bd. of Supervisors* (2001) 87 Cal.App.4th 99, 128.) That did not occur here.

The DEIR Was Not Required to Analyze Single Event Noise

Some commenters assert the DEIR is inadequate for failing to analyze sleep disturbance caused by single event noise. Single event noise is measured by the Sound Exposure Level (SEL), a noise metric commonly used to describe intermittent or isolated noise events such as an aircraft overflight or train pass-by, and should not be applied when describing long-term exposure over a 24-hour period of time. There are no noise standards that utilize the SEL metric. Kern County establishes noise level criteria in terms of the DNL metric. The DNL is a the time-weighted energy average noise level for a 24-hour day, with a 10 dB penalty added to noise levels occurring during the nighttime hours (10:00 p.m.-7:00 a.m.). The 10 dB penalty applied during the nighttime hours accounts for increased sensitivity to noise exposure occurring during nighttime hours, and therefore does address the potential for sleep disturbance.

Interior Noise Levels Would Be Less Than Significant

Some commenters allege the DEIR improperly omits analysis of noise impacts on interior noise levels of sensitive receptors. This is incorrect. Although the DEIR did not explicitly describe potential impacts to interior noise levels, it can be assumed that compliance with the exterior noise level standards established in the DEIR will also demonstrate compliance with the interior noise threshold of 45 dB DNL. Although construction methods and materials vary based upon location and period of construction, typical construction complying with building code standards can be expected to provide an outdoor-to-indoor noise level reduction (NLR) of a at least 20 dB. The DEIR establishes an exterior noise level criterion of 65 dB DNL. Demonstration of project compliance with the exterior noise level criterion would ensure project compliance with the interior noise level criterion of 45 dB DNL. It can reasonably be assumed that residential uses will be capable of providing a minimum outdoor-to-indoor NLR of 20 dB, provided door and windows remain closed for acoustical purposes. Contrary to some commenters' opinions, quantification of outdoor-to-indoor noise level reductions and subsequent interior noise levels is commonly determined with doors and windows closed.

Nighttime Noise Levels Would Be Less Than Significant

Some commenters assert the DEIR is inadequate for failing to analyze nighttime noise impacts. Here, commenters assert the DEIR should take into account receptors' higher sensitivity to noise during

nighttime hours. As noted above, however, Kern County establishes noise level criteria in terms of the DNL metric. The DNL is a the time-weighted energy average noise level for a 24-hour day, with a 10 dB penalty added to noise levels occurring during the nighttime hours (10:00 p.m.-7:00 a.m.). The 10 dB penalty applied during the nighttime hour accounts for increased sensitivity to noise exposure occurring during nighttime hours, and therefore does address the potential for sleep disturbance. The DEIR concludes that noise impacts are less than significant with mitigation.

Gas Flare Noise Impacts Would Be Less Than Significant

One commenter asserted that the DEIR fails to identify and quantify noise impacts from venting and flaring. WJV Acoustics prepared an acoustical analysis to specifically analyze noise impacts from gas flares. (Acoustical Analysis, Gas Flare Noise Assessment, Oil and Gas Development EIR, Kern County, California (October 15, 2015), Appendix V-3.) The Flare Noise Assessment was prepared to supplement the previously submitted environmental noise assessment prepared by Brown-Buntin Associates to determine if significant noise impacts would occur as a result of the use of various types of gas flares and to describe mitigation measures for noise if significant impacts are determined. (Flare Noise Assessment, p. 2.)

As part of the Flare Noise Assessment, noise levels associated with gas flare activities were measured at several locations throughout Kern County. For each analyzed flare, noise level measurements were taken in multiple directions from the flare to account for variations that occur as a result of localized conditions, such as wind or site-specific shielding. (Flare Noise Assessment, p. 8.) In addition, for each modeled gas flare, the loudest observed measurement was utilized as a basis for modeling potential project-related noise exposure. As a result, gas flare noise levels disclosed in the Flare Noise Assessment represent a worst case assessment of gas flare noise exposure.

Table IV and V in the Flare Noise Assessment summarize the flare-related activities and provide distances from each flare to various noise levels for both the Leq and DNL metrics. Table V provides the distances between the activity and noise-sensitive uses that must be achieved to meet DNL noise standards. As discussed above, the Kern County General Plan establishes an exterior noise threshold of 65 dB DNL as measured in outdoor activity areas of residential uses. The Flare Noise Assessment analyzed the flare noise impacts as compared to the County's selected threshold and determined that "compliance with the distances summarized in [] Table V should be interpreted to mean that a significant noise impact would not be expected as a result of the project and additional noise mitigation will not be required." (Flare Noise Assessment p. 11.) In the event site-specific situations arise where the setback distances presented in Table V may not adequately address noise impacts, the Flare Noise Assessment identifies additional potential noise mitigation measures the County could implement to reduce noise impacts to less than significant levels. (Flare Noise Assessment, pp. 11-12.)

With the exception of the Shafter flare, which was operating under anomalous conditions not expected to reoccur, the setbacks identified in Table V of the Flare Noise Assessment are less than the setback required by mitigation measure 4.12-2; therefore, with implementation of Mitigation Measure 4.12-2, impacts from flare noise will remain less than significant under the County's 65 dB DNL/CNEL threshold.

The Project Would Not Generate Noise Levels That Result in Adverse Health Impacts

One commenter noted that the World Health Organization (WHO) recognizes noise as a serious public health problem and cited to excerpts from an August, 2007 report by a consulting firm based in the Netherlands, entitled: "Traffic Noise Reduction in Europe." Commenter suggests the DEIR is deficient for failing to analyze the public health effects that elevated noise levels could have on nearby residents. Commenter is incorrect.

As an initial matter, the WHO Guidelines cited in the Netherlands report primarily address health issues associated with transportation noise. The majority of the project-related noise is not transportation related. As explained in the EIR:

> Potential Project impacts to existing traffic levels and roadways were determined for both construction and operation of the Project, using the most recently published roadway traffic volumes and Project-related vehicle trip calculations. The Project would be expected to generate the equivalent of 19,300 trips per day by 2035, which includes worker trips, as well as equipment and material delivery truck trips[]. These trips would be disbursed to more than 500 roadways within the Project Area, based on historic wellfield production rates. A doubling of traffic volumes on a roadway would be expected to result in a 3 dBA increase in noise generated by traffic, which is equivalent to the human threshold for perceiving a change in the ambient noise level. Based on the Project trip generation calculations and distribution as shown in Section 4.16, Transportation and Traffic, of this EIR, the Project would not double the traffic volumes on any affected roadways. Therefore, no significant increase in noise levels would occur along area roadways as a result of the Project.

(Draft EIR, p. 4.12-21.) Because the project does not generate significant transportation related noise, the WHO Guidelines addressing transportation related noise are not applicable to the project.

Moreover, as discussed in detail above, the County has broad discretion to select the significance thresholds by which to measure noise impacts. The County has properly exercised its discretion to rely on the thresholds established by the Kern County General Plan. The County need not adopt a threshold based upon WHO Guidelines as commenter suggests. (*Citizens for Responsible Equitable Environmental Development v. City of Chula Vista* (2011) 197 Cal.App.4th 327, 335-336.)

The above notwithstanding, the WHO Guidelines for acceptable noise levels (as identified in Table 1 of the Netherlands report) are virtually identical to the thresholds provided in the DEIR and technical noise study prepared for the project. As a result, the EIR's conclusion that the project will not result in any significant noise impacts correlates to a conclusion that the project will not result in any health impacts pursuant to the WHO Guidelines. The below examples support this conclusion:

- Section 2.2 of Netherlands report cites the WHO Guidelines and states that prolonged, cumulative exposure to noise levels above 70 dB(A), common along major roads, may lead to irreversible loss of hearing. Continuous noise levels of 70 dB equate to DNL noise levels of approximately 77 dB DNL. The Noise Study prepared for the project explains that, with

mitigation, the noise levels from the project will be below the 65 dB DNL standard applied in the DEIR and, therefore, far below the noise levels identified by the WHO (77 dB DNL) as potentially harmful.

- Section 2.3.4 of the Netherlands report, again citing the WHO Guidelines, states that higher risks of heart disease are found for those living in streets with average noise levels above 65-70 dB(A). Continuous noise levels between 65-70 dB(A) equate to DNL levels in a range of 72-77 dB DNL. The project, with mitigation, would not exceed the 65 dB DNL threshold applied in the DEIR and, therefore, the project would not cause a higher risk of heart disease pursuant to the standards identified in the Netherlands report (72-77 dB DNL).

In sum, the County was not required to adopt the WHO Guidelines as thresholds. Even if the County were to analyze the project's impacts as compared to the WHO Guidelines, however, the project would not be expected to create elevated noise levels that would result in adverse health effects on sensitive receptors.

The Noise Mitigation Measures Adequately Reduce Noise Impacts to Less Than Significant

The DEIR requires the project applicant to implement mitigation measure 4.12-1 and mitigation measure 4.3-3 to reduce construction and operational noise impacts to less than significant. Measure 4.12-1 includes a number of measures, such as temporary sound attenuation walls, modification of equipment, construction of a temporary berm, and minimum setback distances for various construction activities (e.g., 800 foot setback for well pad preparation.) Measure 4.12-2 requires a minimum 190 foot setback between new oil and gas wells and the closest sensitive receptor. In addition, Table XI of the Noise Assessment describes minimum setback distances required to ensure that noise impacts remain less than significant. (Noise Assessment (September 2015), p.17.)

A few comments suggested that these mitigation measures are inadequate to reduce noise impacts to less than significant levels. The minimum setbacks provided in Table XI of the Noise Assessment accurately describe the minimum setback distances required to ensure that noise levels do not exceed 65 dB DNL at sensitive receptors, for each specified equipment type. The setbacks described in Table XI were calculated and modeled using the loudest Leq levels for each type of equipment. Leq noise level measurements were obtained from 4 individual directions from each equipment type to document the loudest direction from the noise source. Additionally, the reference measurements were obtained while each equipment type was operating at maximum capacity during the loudest activity. For example, over any given period of time, noise levels fluctuate during drilling activities such as well advancement and well pull out activities. Noise levels increase as the drill rig is actively advancing (loudest activity) and decrease while the well string is being pulled from the bore hole and new sections of pipe are added. Over any given hour or 24-hour period, there are regular periods of time where the diesel engine may be turned off entirely for maintenance or other required services. The setback distances provided in Table XI assume continuous, peak noise levels over a 24-hour period, and therefore should be considered a worst-case assessment of project-related noise levels (setback distances). Therefore, utilizing these minimum setbacks will ensure compliance with the County's applicable 65 dB DNL noise threshold and the impacts will be less than significant.

A Revised Noise Study has been submitted to and accepted by the County. FEIR, App. F-1. The Revised Noise Study provides additional information concerning appropriate setbacks and, for each construction activity, the setback distance has increased slightly, resulting in still greater protection for the environment. Mitigation Measure 4.12-1 has been revised to incorporate these new setback requirements.

Pages 7-283 through 7-290 of the EIR, Section 7.2.1, *are revised to supplement Global Response TR-1: Traffic Analysis and Mitigation Program as set forth below:*

TR-1: Traffic Analysis and Mitigation Program

The County received several comments concerning the EIR's analysis of transportation and traffic impacts. This global response is intended to address those comments in a single response. Comments not addressed by this Master Response are addressed in the individual responses to comments.

Introduction

The DEIR's analysis of the Project's transportation and traffic impacts is set forth in DEIR, *Section 4.16, Transportation and Traffic*. This section describes the affected environment and regulatory setting for transportation and traffic. It also describes the impacts on transportation and traffic that would result from the implementation of the Amendment to Chapter 19.98 (Oil and Gas Production) of the Project, including impacts from future oil and gas development pursuant to the Amended Zoning Ordinance, and mitigation measures that would reduce these impacts, if necessary.

This section of the EIR is based on the technical study, Traffic Impact Study and Roadway Assessment Kern County Oil and Gas Well Activity (Traffic Study), dated March 2015, which was prepared by Ruettgers and Schuler and included as Appendix W to the EIR. The Traffic Study provides an analysis of existing and 2035 traffic conditions. Potential traffic impacts to intersections and roadways were determined for both development/construction and operation of the Project using the most recently published roadway volumes and project-related vehicle trip calculations. Discussion and evaluation of the transportation facilities, including pavement conditions, are based on site surveys with applicable thresholds and impacts identified. Additional impacts to the airport system are also discussed.

As explained in *Section 4.16, Transportation and Traffic*, with mitigation, the Project would not conflict with an applicable plan, ordinance, or policy establishing measures of effectiveness for the performance of the circulation system, and would not conflict with an applicable congestion management program. With mitigation, the Project would not result in a change in air traffic patterns that results in substantial safety risks, nor would it substantially increase transportation-related hazards due to a design feature or incompatible use. The Project, as mitigated, would have a less than significant impact with respect to its potential to result in inadequate emergency access, and would not conflict with adopted policies, plans, or programs regarding public transit, bicycle or pedestrian facilities, or otherwise decrease the performance or safety of such facilities. Finally with mitigation, the Project would not make a cumulatively considerable contribution to cumulative transportation or cumulative traffic impacts. (See also DEIR, at p. 6-9.)

The County's Reliance on its Transportation Experts

As an initial matter, under established CEQA precedent, lead agencies such as the County, may accept the determinations and conclusions reached by the expert or experts that prepared the EIR, even though other conclusions also might be reached by other experts. (See *Center for Biological Diversity v. Dept. of Fish & Wildlife* (2014) 224 Cal.App.4th 1105, 1179-1180; *Eureka Citizens v. City of Eureka* (2007) 147 Cal.App.4th 357, 371-72; *Greenebaum v. City of Los Angeles* (1984) 153 Cal.App.3d 391, 412 [it is not an "abuse of discretion" for a public agency "to give more weight to one set of 'experts' than to another"].) Here, the County's determinations are supported by substantial evidence; it has properly relied on the standards articulated in its CEQA Implementation Document, its Environmental Checklist, and upon the analysis and conclusions of its transportation and traffic expert and EIR consultant in arriving to its less than significant impact conclusions for Impacts 4.16-1 through 4.16-7.

A detailed discussion of concerns raised by commenters is presented below.

Pavement Conditions

A commenter raised concerns regarding the DEIR's impact analysis of pavement conditions, suggesting that that the analysis of traffic impacts and road wear and tear appear to exclude vehicle trips associated with workers driving to and from the project site. A commenter also raised concerns regarding the determination of appropriate mitigation for pavement impacts, arguing that there was no justification as to how mitigation fees were reached.

The EIR did consider the potential impacts of oil and gas traffic on pavement condition. (See DEIR, at pp. 4.16-25 – 4.16-28, 4.16-50 – 4.16-78; Traffic Report, at pp. 69-76.) As noted in the traffic study:

> Heavy truck traffic is the primary factor affecting pavement condition. Pavements are designed using a Traffic Index (TI) which is a measure of the cumulative number of heavy trucks expected to load a pavement over its service life. As per Caltrans methodology, TI's are estimated by converting mixed truck loads to 8,000-pound Equivalent Single-Axle Loads (ESAL's).

(Traffic Study, at p. 69.) To accurately reflect pavement impacts over the duration of the project, the analysis methodology, the analysis included freeways, highways, arterials and ―collectors. Specifically, on the same page the Traffic Study states:

> A TI for a 20-year design life (standard for new roadway construction) was assigned to each study roadway. Caltrans truck count data for the year 2012 were used to ‗develop TI estimates for state routes per Caltrans methodology. When available, design TI's obtained from record drawings were used for county roadways. For each of the remaining county roadways, TI's were estimates based on a review of KernCOG traffic count data and roadway classification.

Using the inputs above, the County was able to run the pavement condition analysis:

> The pavement condition analysis consisted of assessing the need and timing for maintenance and rehabilitation improvements per roadway segment per study year based on estimates of remaining pavement service life. Both remaining life and improvement needs were estimated based on a pavement life cycle curve developed for this study. The curve . . . closely approximates a "typical" pavement life cycle curve and correlates PASER ratings to pavement condition.

With regard to concerns regarding worker trips, the Final Traffic Study prepared for the project included all of the trips associated with the workers traveling two and from the work site. (See Final Traffic Study, pp. 12-15.) However, pavement design is based upon Equivalent Single Axel Loading (ESAL) of trucks. Accordingly, impact analysis is based on a similar metric, with the assumption that passenger vehicle loading is minimal (See Final Traffic Study, p. 69.) The oil and gas "worker trips" traveling to and from the project site would occur via an assortment of vehicles (from trucks, to passenger cars). The Traffic Study pavement analysis captures that portion of the project stream associated with trucks, which includes a percentage of the "worker trips" driving to and from the project site. (See Final Traffic Study, p. 69.)

A commenter raised concerns regarding the weight of water transport trucks, indicating that the impact of water hauled to one site is the equivalent of nearly 3.5 million car trips. For the purposes of analysis, truckload types were not specifically detailed out in the analysis. (See Final Traffic Study, p. 69.) Notably, the Kern County oil and gas industry has significant water infrastructure used for water supply. This greatly reduces the amount of trucking needed to haul water. Accordingly, contrary to commenters' concerns, the Kern County oil industry does not utilize a high volume of water trucks and the EIR need not specifically address impacts associated with water transport trucks.

One comment states that the pavement condition analysis resulted in inadequate maintenance mitigation fee determinations and cites both: (a) oil and gas truck loads; and (b) mitigation fees from other states. Neither point of criticism is considered applicable to this Project. The comment refers to reported occurrences of oil and gas trucks exceeding legal load limits in Pennsylvania as a reason why the County should consider increased oil and gas axle loadings in the pavement condition analysis. The existence of illegal loads in Pennsylvania does not substantiate the existence of illegal oil and gas loads in the County. The EIR assumes that special loads are permitted by the County, and are dealt with independently from the normal oil and gas permit process.

A direct comparison of the pavement condition mitigation fee calculated as a part of this study to similar fees imposed in other states suggests a uniformity in oil and gas traffic characteristics and roadway maintenance and rehabilitation practices that is neither presented nor supported. There are a number of variables that go into determining pavement condition and the variables cited in the states referenced by the commenter are unknown. For example, the initial condition of the roads may have been highly deficient to begin with for truck loading and the volume of trucks used in oil activity. Additionally, many other regions of the country do not have Kern County's pipeline infrastructure

for both oil products and water. Another variable is weather – Kern County does not have extreme winter weather that destroys road pavement, as do some of the regions to which the comments refer.

Significantly, Kern County is different from most other regions cited by the comments in that the County's road system has been built to service the oil & gas industry over the past 100 years. (Traffic Study, p. 3.) Accordingly, traffic related to oil and gas production is not a new impact on an existing road system. Further, as described in the Traffic Study, and included as MM 4.16-1, the County is developing and implementing a pavement condition mitigation program to ensure Project-related activities contribute their fair share for the preservation, upkeep, and restoration of county roads and appurtenant facilities. (DEIR, at p. 1-65, 4.16-77.)

One commenter indicates that the dollar value of the damage to roadways as a result of increased traffic should be calculated, and suggests that the mitigation measure reflect the actual cost of oil-and-gas related traffic impacts. Based on the list of potential impacts identified in the DEIR and traffic study, a list of projected improvements was developed, which generally included intersection improvements, road widening, road maintenance, and safety improvements. (See Final Traffic Study, pp. 80-92.) An overall cost estimate was developed for the mitigation measures and provided by the Traffic Engineer to the County. (*Ibid.*) The County used this estimate to develop the individual well fee of $1,500 identified in MM 4.16-1, which is based on the anticipated cost and the total number of estimated future wells.

Level of Service

One comment suggests that the DEIR did not analyze the "existing plus project" traffic scenario. The "existing plus project" traffic scenario was considered in the DEIR as the "Year 2015" Scenario. (DEIR, at pp. 4.16-45 – 4.16-49; Traffic Study, at pp. 18-68.)

One comment states that the DEIR's analysis of traffic impacts is inadequate. Specifically, the commenter disagrees with the DEIR's conclusions that several signal-controlled intersections will have an improved LOS after the addition of Project traffic under 2035 conditions.

Level of Service is used to provide generalized categories of operational performance, which can be clearly understood by decision-makers and the general public. This rating system is used by the County to provide criteria and thresholds for significant impacts. The evaluation of delay numbers is a technical consideration for engineers during the report development process and for reviewing agencies through the use of appendix.

Despite what the commenter suggests, this is not a case where adding project traffic to an intersection results in an improved level of service. As provided on page 19 of the Traffic Study:

> Future traffic volumes, evaluated in this study, were developed for both, typical traffic volume growth and for oil and gas industry specific growth. These future traffic volume scenarios are referred to as "2035 % Growth Only" and "2035 NOG + O&G Projection" respectively.

(Traffic Study, at p. 19.) "2035 % Growth Only" is defined as existing traffic volumes projected to 2035 using typical growth rates appropriate for the study area. (*Ibid.*) "2035 NOG + O&G Projection" is derived from the addition of: (1) Existing traffic that is not oil and gas related projected to 2035 using appropriate growth rates for the area; and (2) Oil and gas related traffic projected to 2035 using an oil and gas industry specific growth rate. (*Ibid.*)

Both "2035 % Growth Only" and "2035 NOG + O&G Projection" scenarios include project traffic and were calculated for the purposes of comparing various growth rate potentials. These are both "Future + Project" scenarios and cannot be compared in the same way as would be done in a simple traffic study where the basic scenarios like "Future" and "Future + Project" are compared.

Assumptions

One comment states that the DEIR's traffic analysis is flawed because it bases its trip generation estimates on "suspect assumptions." The comment also questions the DEIR's reliance on traffic forecast assumptions.

The assumptions used to develop oil and gas trip generation estimates, traffic volume projections and average vehicle occupancy rates are considered within the industry to be both conservative and reasonable.

Regarding trip generation, as stated in the Transportation Study on page, traffic engineers and planners typically use trip generation rates, equations and data contained in the ITE *Trip Generation Manual* to estimate traffic volumes generated by conventional land use (e.g., commercial, residential, recreational, etc.). However, the ITE manual does not contain similar information for traffic generated by oil and gas activities. Therefore, for the purposes of this study, a multi-tiered approach was used to estimate daily volumes of oil and gas traffic using three data sources: well field vehicle counts, oil and gas employment figures and AADT (Annual Average Daily Traffic) volumes. The results of each of this three tiered approach were in general agreement, lending support for the assumptions and values used within each estimate.

For traffic volume projections, the annual growth rate for oil and gas traffic was developed based on projections of new wells drilled and total producible wells for the years 2015 through 2035. (WZI, WSPA.) Annual growth rates ranged from 0.71 percent to 0.81 percent. The study used the average annual growth rate of 0.76 percent because.

Methodology

One comment states that the DEIR employs analytical methods that are unsuitable for a project of this type and scale. Specifically, the comment states that the DEIR inappropriately analyzes roadway segment LOS impacts using a volume/capacity ("V/C") ratio. The comment also disagrees with the DEIR's use of "Project % Share," which identifies the proportion of the total improvement cost attributed to the Project.

The analysis methodology of the DEIR and corresponding Traffic Study is based on County adopted standards, which utilized a daily traffic volume evaluation and General Plan goals.

Further, in response to comments, the following EIR text changes are being made to ensure consistency with Appendix W:

DEIR, p. 4.16-57:

The "Project % Share" for Olive Ave: South St - Wood St. is changed from "245.68%" to "100.00%."

DEIR, p. 4.16-64:

The "Project % Share" for Stockdale Hwy: I5 SB Ramps - I5 NB Ramps is changed from "207.26%" to "100.00%."

The Project-share figures assign a 1.00 percent share to more than half of the roadway segments within the street network that had nominal traffic volume assignments within the project distribution. Notwithstanding an assignment of "no measureable traffic," as a conservative approach, the 1.00 percent value acknowledges potential use, resulting in a mitigation value and fees for roadway maintenance/improvement.

Mitigation of Transportation and Traffic Impacts

One comment disagrees with the DEIR's underlying conclusions and indicates that because impacts were not appropriately found "significant" the DEIR failed to properly "mitigate." The comment is based on the statement that, "under the County's criteria, no matter how much congestion exists or how much intersection and traffic operations are impacted, they will still be defined as LOS F as there is no lower LOS category."

The comment disagrees with the County's established threshold. "A threshold of significance is an identifiable, quantitative, qualitative, or performance level of a particular environmental effect, non-compliance with which means the effect will normally be determined to be significant by the agency and compliance with which means the effect normally will be determined to be less than significant." (CEQA Guidelines, § 15064.7 subd. (a).) Like many lead agencies, Kern County has exercised its discretion to formulate significance thresholds by using language from Appendix G of the CEQA Guidelines. Consistent with the CEQA Guidelines, Kern County has adopted the following thresholds of significance (among others) to analyze transportation and traffic impacts: Conflict with an applicable congestion management program, including, but not limited to LOS standards and travel demand measures, or other standards established by the County congestion management agency for designated roads or highways as follows: (1) Metropolitan Bakersfield General Plan LOS C, (2) Kern County General Plan LOS D, and (3) Caltrans endeavors to maintain a target LOS at the transition between LOS C and LOS D. (DEIR, at p. 4.16-44.)

Where an agency's significance thresholds are challenged by a project opponent, the standard of review for a court reviewing the selected threshold is the "substantial evidence" standard, meaning the court must give deference to the lead agency's decision to select particular significance thresholds. (See National Parks and Conservation Association v. County of Riverside (1999) 71 Cal.App.4th 1341, 1358 [applying the substantial evidence test to review of an agency's decision to select particular thresholds for an EIR]; Mount Shasta Bioregional Ecology Center v. County of Siskiyou (2012) 210 Cal.App.4th 184, 204-207 [upholding analysis based on significance thresholds adapted from other agencies]; Eureka Citizens for Responsible Government v. City of Eureka (2007) 147 Cal.App.4th 357, 371-374 [deferring to city's determination that analysis was performed in a manner consistent with general plan policy]; Sierra Club v. Tahoe Regional Planning Agency (E. D. Cal. 2013) 916 F.Supp.2d 1098, 1146-1151 [upholding agencies' application of significance threshold].) As discussed in the DEIR and in these responses to comments, the County's transportation and traffic thresholds are supported by substantial evidence. As such, they are to be accorded great deference.

The comment disagrees with the County's criteria because, according to the comment, no matter how much traffic operations are impacted, they will still be defined as LOS F, as there is no lower LOS category. Rather than rely on the County's adopted standard, the comment suggests the County should have applied an alternative quantitative threshold that analyzes LOS in excess of "F." CEQA does not require the County to adopt such threshold. To the contrary, CEQA vests the lead agency with substantial discretion in determining the appropriate threshold of significance to evaluate the severity of a particular impact. (See CEQA Guidelines, § 15064, subd. (b); Save Cuyama Valley v. County of Santa Barbara (2013) 213 Cal.App.4th 1059, 1068 [explaining agency discretion to fashion significance thresholds].) As explained in the CEQA Guidelines, "[t]he determination of whether a project may have a significant effect on the environment calls for careful judgment on the part of the public agency involved, based to the extent possible on scientific and factual data. An ironclad definition of significant effect is not always possible because the significance of an activity may vary with the setting. For example, an activity which may not be significant in an urban area may be significant in a rural area." (CEQA Guidelines, § 15064, subd. (b).)

Importantly, case law clearly provides that a lead agency does not run afoul of CEQA by rejecting different thresholds proposed by a project opponent. (See Citizens for Responsible Equitable Environmental Development v. City of Chula Vista (2011) 197 Cal.App.4th 327, 335-336 ("CREED") [rejecting petitioners' argument that the City erred by not applying a different significance threshold]; California Oak Foundation v. Regents of University of California (2010) 188 Cal. App. 4th 227, 282 [rejecting petitioner's argument that a lead agency used the incorrect significance threshold in evaluating the biological significance of tree impacts]; National Parks & Conservation Assn. v. County of Riverside (1999) 71 Cal. App. 4th 1341, 1356-1357 [upholding a biological significance threshold used by Riverside County as supported by substantial evidence].)

CEQA case law also endorses a lead agency's use of existing environmental standards or regulations as thresholds of significance. (See Tracy First v. City of Tracy (2009) Cal.App.4th 912 [upholding determination that energy impact of project was less than significant because the project achieved energy efficiencies greater than those required by California Energy Efficiency Standards]; Cadiz

Land Co. v. Rail Cycle (2000) 83 Cal.App.4th 47 [upholding finding that incremental impacts of criteria pollutants on sensitive crops would be less than significant based on National Ambient Air Quality Standards promulgated to protect public health and welfare from adverse effects of a pollutant]; Protect The Historic Amador Waterways v. Amador Water Agency (2004) 116 Cal.App.4th 1099, 1107 ["thresholds can be drawn from existing environmental standards, such as other statutes or regulations"]; Rialto Citizens for Responsible Growth v. City of Rialto (2012) 208 Cal.App.4th 899 [upholding use of thresholds of significance recommended by SCAQMD to assess air quality impacts]; Oakland Heritage Alliance v. City of Oakland (2011) 195 Cal.App.4th 884, 896 [agency has discretion to rely on adopted standards to serve as significance thresholds for a particular project].) The County properly relied on its General Plan, the City of Bakersfield General Plan, and Caltrans standards to establish thresholds of significance for transportation and traffic impacts.

One comment states that even where the DEIR does disclose significant intersection and roadway LOS impacts, it fails to provide adequate mitigation. The comment states that the DEIR should have included the recommended improvements in the Traffic Study.

"[A]n EIR need not analyze '"'every imaginable alternative or mitigation measure; its concern is with feasible means of reducing environmental effects.'"' [Citation.]" (Santa Clarita Organization for Planning the Environment v. City of Santa Clarita (2011) 197 Cal.App.4th 1042, 1055-1056.) "'Feasible' means capable of being accomplished in a successful manner within a reasonable period of time, taking into account economic, environmental, social, and technological factors. (Pub. Resources Code, § 21061.1.) Mitigation measures that cannot be legally imposed or enforced need not be proposed or analyzed. (San Diego Citizenry Group v. County of San Diego (2013) 219 Cal.App.4th 1, 16; citing Tracy First v. City of Tracy (2009) 177 Cal.App.4th 912, 938; Pub. Resources Code, § 21086, subd. (b).) The EIR complies with these requirements – the County has incorporated a thorough mitigation framework to ensure that transportation and traffic impacts are minimized, and the DEIR concluded that these measures would reduce the impact to less than significant. (DEIR, p. 4.4-125.)

Page 7-301 of the EIR, Section 7.2, Global Response Water-2, *is revised to add the following paragraph, at the top of the page before the current text on the page:*

<u>As discussed in the Draft EIR, as of March 2015, 23 injection wells in the Project Area were ordered to cease operations due to proximity to drinking or agricultural water supplies. In a May 2015 report to USEPA, DOGGR and the SWRCB stated that they were "awaiting receipt of additional test data" before determining whether to order a shut-down of another 30 wells identified as injecting into aquifers with less than 3,000 mg/L of TDS by the October 15, 2015 compliance date. Draft EIR, p. 4.9-74. On October 15, 2015, DOGGR and the SWRCB reported that they had completed their review of 532 "Category 1" injection wells (i.e., wells which had received permits for injection into non-exempt, non-hydrocarbon-bearing aquifers or into one of 11 aquifers historically treated as exempt) and ordered the closure of an additional 33 injection wells, 31 of which are within Kern County. Twelve of the 31 wells within the County were already inactive and the remaining 19 were required to cease injection by October 15, 2015.</u>

The October 15 DOGGR/SWRCB letter reporting the completion of Category 1 well review and closure of the 33 wells is also attached for the record.

Department of Conservation
Division of Oil, Gas, and Geothermal Resources

CALIFORNIA Water Boards
STATE WATER RESOURCES CONTROL BOARD
REGIONAL WATER QUALITY CONTROL BOARDS

October 15, 2015

Mr. Michael Montgomery
United States Environmental Protection Agency – Region IX
75 Hawthorne Street
San Francisco, CA 94105-3901

Dear Mr. Montgomery:

As part of the approved plan to address the compliance issues related to the State's program to regulate Class II injection, the Division of Oil, Gas, and Geothermal Resources (DOGGR) and the State Water Resources Control Board (State Water Board) have completed their review of the Category 1 wells. Category 1 wells are those Class II water disposal wells that were permitted for injection into non-exempt, non-hydrocarbon-bearing aquifers or the 11 aquifers historically treated as exempt.

The State's analysis initially determined that 176 wells were permitted to inject into non-hydrocarbon-bearing aquifers with a concentration of total dissolved solids (TDS) of less than 3,000 mg/l (Attachment A) that are either not exempt or are one of the 11 aquifers historically treated as exempt. Of these 176 wells, 83 were permitted to inject into one of the 11 aquifers historically treated as exempt. However, several of these wells are also injecting into zones not considered historically treated as exempt, and as such, are subject to shut in by October 15, 2015. The State has determined that there are 33 wells (Attachment B) that will no longer be allowed to inject after October 15, 2015, unless the state applies for and receives an aquifer exemption from US EPA.

The remaining wells on the list of 176 wells described above will not be required to cease injection by October 15, 2015 for one of the following reasons:

- Upon review, the well is properly categorized as a Category 3, not Category 1 well;
- The operator has relinquished approval to inject;
- The well was converted to an oil and gas production well;
- The well was plugged and abandoned;
- DOGGR has already issued an order to cease injection;
- Upon review, the State has determined that the injected fluid is going into an exempt zone.

In order to determine which of these explanations apply to a specific well, please refer to Attachment A.

In addition to the list of 176 wells that were identified as Category 1 wells, two wells were originally identified as having a TDS above 3,000 mg/l, but have now been determined to have a TDS less than 3,000 mg/l. As such, they will also be required to cease injection by October 15, 2015. These wells are listed on Attachment C. We have been in communication with the operators of these wells to ensure that injection ceases in accordance with the deadline and regulations.

We are committed to continuing to meet the agreed upon schedule to bringing the Underground Injection Control (UIC) program into compliance with the Safe Drinking Water Act, and we are also committed to revising the State's UIC program with public safety as the first priority. Please let us know if you have any questions regarding the data attached with this letter.

Sincerely,



Steve Bohlen
State Oil and Gas Supervisor
Division of Oil, Gas, and Geothermal Resources

Sincerely,



Jonathan Bishop
Chief Deputy Director
State Water Resources Control Board

Attachments

cc: Cliff Rechtschaffen, Senior Advisor, Governor's Office
John Laird, Secretary, California Natural Resources Agency
Matthew Rodriquez, Secretary, California Environmental Protection Agency
David Bunn, Director, California Department of Conservation

Attachment A

District Number	FieldName	AreaName	OperatorName	APINumber	LeaseName	We lNumber	Zone TDS Data	Elevation	Top Perf	InjectionZone	Current Status (Oct. 13 2015 Update)	Permitted into 11 Historically Exempt Aquifers?	Identified as Potentia ly Impacting Water Supply Wells (PIWSW)	Identified as one of the 53 (Page 2 and Attachment I 5/15/2015 letter)	Action required by DOGGR (Enclosure D part 1 b i)	Action required by Water Board (Enclosure D part 1 b i and ii)	DOGGR Action taken 1) Issued Cease Injection Order 2) Operator voluntarily relinquished permit 3) Provide rationale (see Current Status) or 4) No action necessary	Additional Comments
3	Arroyo Grande	Tiber	Freeport-McMoRan Oil & Gas LLC	07920419	Signal E.T.S.	135	1820	410	780	Do lie Zone	WD. Pursuing AE. Injection within HC zone Feb. 2017 dead ine app ies.		X	X	YES	YES	4	Issued Information Order 5/14/2015
3	Arroyo Grande	Tiber	Freeport-McMoRan Oil & Gas LLC	07920426	Signal E.T.S.	140	1820	420	705	Do lie Zone	WD. Pursuing AE. Injection within HC zone Feb. 2017 dead ine app ies.		X	X	YES	YES	4	Issued Information Order 5/14/2015
3	Arroyo Grande	Tiber	Freeport-McMoRan Oil & Gas LLC	07920436	Signal E.T.S.	161	1820	359	540	Do lie Zone	WD (idle) Pursuing AE. Injection within HC zone Feb. 2017 dead ine app ies.		X	X	YES	YES	4	Issued Information Order 5/14/2015
3	Arroyo Grande	Tiber	Freeport-McMoRan Oil & Gas LLC	07920498	Signal E.T.S.	169	1820	427	500	Do lie Zone	WD. Pursuing AE. Injection within HC zone Feb. 2017 dead ine applies.		X	X	YES	YES	4	Issued Information Order 5/14/2015
3	Arroyo Grande	Tiber	Freeport-McMoRan Oil & Gas LLC	07920639	Hyla	17H	1820	175	930	Do lie Zone	No longer WD converted to OG (October 2014)		X	X	YES	YES	4	Issued Information Order 5/14/2015
3	Arroyo Grande	Tiber	Freeport-McMoRan Oil & Gas LLC	07920659	Hyla	19H-1	1820	210	970	Do lie Zone	No longer WD converted to OG (October 2013)		X	X	YES	YES	4	Issued Information Order 5/14/2015
3	Arroyo Grande	Tiber	Freeport-McMoRan Oil & Gas LLC	07920773	Pulas	2	1820	461	1750	Do lie Zone	No longer WD converted to OG (November 2013)				no	YES	3 - evaluating AE package	Issued Information Order 5/14/2015
3	Arroyo Grande	Tiber	Freeport-McMoRan Oil & Gas LLC	07920794	Pulas	3	1820	423	1349	Do lie Zone	WD. Pursuing AE. Injection within HC zone Feb. 2017 dead ine app ies.		X	X	YES	YES	4	Issued Information Order 5/14/2015
3	Arroyo Grande	Tiber	Freeport-McMoRan Oil & Gas LLC	07921105	Pulas	4	1820	389	734	Do lie Zone	WD. Pursuing AE. Injection within HC zone Feb. 2017 dead ine app ies.		X	X	YES	YES	4	Issued Information Order 5/14/2015
3	Arroyo Grande	Tiber	Freeport-McMoRan Oil & Gas LLC	07921154	Pulas	6	1820	408.29	596	Do lie Zone	WD. Pursuing AE. Injection within HC zone Feb. 2017 dead ine applies.		X	X	YES	YES	4	Issued Information Order 5/14/2015
3	Arroyo Grande	Tiber	Freeport-McMoRan Oil & Gas LLC	07921202	Pulas	7	1820	369	550	Do lie Zone	WD. Pursuing AE. Injection within HC zone Feb. 2017 dead ine applies.		X	X	YES	YES	3 - evaluating AE package	Issued Information Order 5/14/2015
3	Arroyo Grande	Tiber	Freeport-McMoRan Oil & Gas LLC	07921203	Pulas	8	1820	421	460	Do lie Zone	WD. Pursuing AE. Injection within HC zone Feb. 2017 dead ine applies.		X	X	YES	YES	3 - evaluating AE package	Issued Information Order 5/14/2015
3	Cat Canyon	West	Greka Oil & Gas Inc.	08301242	Los Flores	3-21	2870	1067	3689	Sisquoc	WD - Idle since January 1980 TDS is 22 000 mg/l				no	YES	4	No order issued -TDS of injection zone greater than 10 000
4	Chico-Martinez	Any Area	CMO Inc.	03039980	Mitchel	35-401	710	936 KB	248	TULARE	Shut-in order issued		X	X	YES	YES	1 (Order No. 1054)	Issued Information Order 7/2/2014
4	Chico-Martinez	Any Area	CMO Inc.	03044445	Mitchel	35-408	710	938 KB		TULARE	Shut-in order issued		X	X	YES	YES	1 (Order No. 1054)	Issued Information Order 7/2/2014
4	Deer Creek	Any Area	Modus Inc.	10720109	F lippi	107-2	300	454 KB	690	SANTA MARGARITA	Order issued		X	X	YES	YES	1 (Order No. 1066)	Issued Information Order 3/3/2015
4	Deer Creek	Any Area	Longbow LLC	10720136	Community	11	740	463 KB	856	SANTA MARGARITA	No longer WD converted to OG September 2013		X	X	no	YES	4	Issued Information Order 5/15/2015
4	Edison	Edison Groves	R&R Resources LLC	02975558	Lehr	13	444		1400	KERN RIVER	Order issued		X	X	YES	YES	1 (Order No. 1058)	Issued Information Order 7/2/2014
4	Edison	Portals-Fairfax	Redbank Oil Co.	02906644	Porter	1	566	459 KB	3365	SANTA MARGARITA	Order issued				no	YES	1 (Order No. 1059)	Issued Information Order 7/2/2014
4	Fru tvale	Main	Gordon Dole	02950233	State	1	904	443 KB	2835	ETCHEGOIN (FAIRHAVEN)	WD				no	YES	3 - evaluating AE package	Issued Information Order 5/15/2015
4	Jasmin	Any Area	Hathaway LLC	02947687	Quinn	14-10	380	578 RT	2797	CANTLEBERRY	WD - Idle since May 2013 seeking aquifer exemption. Injection wi hin HC zone Feb. 2017 dead ine app ies.				no	YES	4	Issued Information Order 5/15/2015
4	Kern Front	Any Area	Vintage Production Cal fornia LLC	02908942	Movius	3	1600	890 DF	2500	SANTA MARGARITA	WD - Idle since June 2007	Yes			no	YES	4	Issued Information Order 5/15/2015
4	Kern Front	Any Area	Vintage Production Cal fornia LLC	02908945		2	1600		2405	SANTA MARGARITA	WD	Yes			no	YES	4	Issued Information Order 5/15/2015
4	Kern Front	Any Area	Western States International Inc.	02948128	Mitchel	75	390	719 KB	1444	CHANAC	Order issued		X	X	YES	YES	1 (Order No. 1065)	Issued Information Order 3/3/2015
4	Kern Front	Any Area	Longbow LLC	02948513	Judkins	1-7	390	768 KB	1468	CHANAC	No longer WD converted to OG November 2014		X	X	no	YES	4	Issued Information Order 5/15/2015
4	Kern Front	Any Area	Western States International Inc.	02949825	Mitchel	76	390	747 KB	1474	CHANAC	No longer WD converted to OG January 1997		X	X	no	YES	4	Issued Information Order 5/15/2015
4	Kern Front	Any Area	Western States International Inc.	02949915	Mitchel	65	480	724 KB	1477	ETCHEGOIN/CHANAC	WD Cancelled SF Idle Category 2		X	X	no	YES	4	Issued Information Order 5/15/2015
4	Kern Front	Any Area	Western States International Inc.	02949916	Mitchel	67	480	739 KB	1515' Top of slotted iner 1578' csg Shoe	ETCHEGOIN/CHANAC	WD Cancelled SF Idle Category 2				no	YES	4	Issued Information Order 5/15/2015
4	Kern Front	Any Area	Longbow LLC	02950363	Judkins	2-7	390	753 KB	1441	CHANAC	No longer WD converted to OG November 2014		X	X	no	YES	4	Issued Information Order 5/15/2015
4	Kern Front	Any Area	Vintage Production Cal fornia LLC	02951043	Kern	WWD 1	2318	805 KB	2539	SANTA MARGARITA	WD	Yes			no	YES	4	Issued Information Order 5/15/2015
4	Kern Front	Any Area	Vintage Production Cal fornia LLC	02961469		D-11	1600	890 KB	2330	SANTA MARGARITA	WD	Yes			no	YES	4	Issued Information Order 5/15/2015
4	Kern Front	Any Area	Be laire Oil Company	02962979		4-4W	890	664 DF	2840	SANTA MARGARITA	WD - Idle since March 1993	Yes			no	YES	4	Issued Information Order 5/15/2015
4	Kern Front	Any Area	Vintage Production Cal fornia LLC	02973065	Movius A	18	1600	883 KB	2470	SANTA MARGARITA	WD Idle since April 2006	Yes			no	YES	4	Issued Information Order 5/15/2015
4	Kern Front	Any Area	Badger Creek Ltd.	02986511		WD 1	1500		2310	SANTA MARGARITA	WD	Yes			no	YES	4	Issued Information Order 5/15/2015
4	Kern Front	Any Area	Vintage Production Cal fornia LLC	03018994	Robinson	B-WD1	1300	838 KB	2774	SANTA MARGARITA	WD Idle since September 2009	Yes			no	YES	4	Issued Information Order 5/15/2015
4	Kern Front	Any Area	Vintage Production Cal fornia LLC	03019413	Young Fee	WD1	1600	820 KB	2322	SANTA MARGARITA	WD	Yes			no	YES	4	Issued Information Order 5/15/2015
4	Kern Front	Any Area	Vintage Production Cal fornia LLC	03019563		WD1	1600	793 KB	2456	SANTA MARGARITA	WD	Yes			no	YES	4	Issued Information Order 5/15/2015
4	Kern Front	Any Area	Vintage Production Cal fornia LLC	03032871		WD2	1600	804 KB	2374	SANTA MARGARITA	WD	Yes			no	YES	4	Issued Information Order 5/15/2015
4	Kern Front	Any Area	Vintage Production Cal fornia LLC	03044524	Young Fee	WD2	1600	848 KB	2775	SANTA MARGARITA	WD	Yes			no	YES	4	Issued Information Order 5/15/2015
4	Kern Front	Any Area	Vintage Production Cal fornia LLC	03050047	Young Fee	WD3	1600	820 KB	2743	SANTA MARGARITA	WD	Yes			no	YES	4	Issued Information Order 5/15/2015
4	Kern River	Any Area	Chevron U.S.A. Inc.	02926346	Overland	31D	1120	707 DF	756	CHANAC/SANTA MARGARITA	WD - Idle since January 2001	Yes	X	X	YES	YES	4	Issued Information Order 8/11/2014
4	Kern River	Any Area	Chevron U.S.A. Inc.	02940729	Government 3	3	750	1059 KB	790	KERN RIVER	WD - Operator sent letter re inquishing injection approval		X	X	YES	YES	2	Issued Information Order 3/4/2015

Attachment A

4	Kern River	Any Area	Chevron U.S.A. Inc.	02944305	Luck	508	701	836 MAT	627	Kern River	No longer disposal - OG and SC since Apr l 2006 - Previous injection occurred in an exempted zone (hydrocarbon)		X		no	YES	4	No order issued - Previous injection in exempted zone (hydrocarbon)
4	Kern River	Any Area	Chevron U.S.A. Inc.	02951179	Monte Cristo No. 1	10-12B	701	565 DF	564	KERN RIVER	No longer disposal - OG and SC since Apr l 1998 - Previous injection occurred in an exempted zone (hydrocarbon)		X		no	YES	4	No order issued - Previous injection in exempted zone (hydrocarbon)
4	Kern River	Any Area	Chevron U.S.A. Inc.	02955750	H.H. & F.	2D	1400	488 DF	1130	CHANAC/SANTA MARGARITA	WD - Idle since December 2004	Yes	X	X	YES	YES	4	Issued Information Order 8/11/2014
4	Kern River	Any Area	Kern River Holdings Inc.	02962003	Ferne	SWD 1	960	570 KB	2140	SANTA MARGARITA/VEDDER	WD - S. M. injection only	S.M. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Kern River	Any Area	Chevron U.S.A. Inc.	02967907	Overland	34WD	1120	797 DF	624	CHANAC/SANTA MARGARITA	WD - Idle since November 2000	Yes	X	X	YES	YES	4	Issued Information Order 8/11/2014
4	Kern River	Any Area	Chevron U.S.A. Inc.	02970045	San Joaquin	WD 3	946		1400	CHANAC/SANTA MARGARITA	WD	Yes	X	X	YES	YES	4	Issued Information Order 8/11/2014
4	Kern River	Any Area	Chevron U.S.A. Inc.	02970046	San Joaquin	WD 4	1018	502 GL	2043	SANTA MARGARITA	WD	Yes			no	YES	4	Issued Information Order 5/15/2015
4	Kern River	Any Area	Chevron U.S.A. Inc.	02970047	San Joaquin	WD 5	1018	489 GL	2112	SANTA MARGARITA	WD	Yes			no	YES	4	Issued Information Order 5/15/2015
4	Kern River	Any Area	Chevron U.S.A. Inc.	02970048	San Joaquin	WD 6	1018	523 GL	1560	SANTA MARGARITA	WD	Yes			no	YES	4	Issued Information Order 5/15/2015
4	Kern River	Any Area	Chevron U.S.A. Inc.	02970049	San Joaquin	WD 7	946		1620	CHANAC/SANTA MARGARITA	WD	Yes			no	YES	4	Issued Information Order 5/15/2015
4	Kern River	Any Area	Chevron U.S.A. Inc.	02971717	Overland	35WD	1018		818	SANTA MARGARITA	WD - Idle since November 2000	Yes	X	X	YES	YES	4	Issued Information Order 8/11/2014
4	Kern River	Any Area	Chevron U.S.A. Inc.	02972050	KCL-10	2X	694		699	CHANAC/SANTA MARGARITA	WD - Idle since September 2000	Yes	X	X	YES	YES	4	Issued Information Order 8/11/2014
4	Kern River	Any Area	Chevron U.S.A. Inc.	02973218	Government 3	557	1177		1028	KERN RIVER CHANAC SANTA MARGARITA	WD - Idle into Kern River only operator relinquished injection approval	Ch. S.M. -Yes	X	X	YES	YES	2	Issued Information Order 8/11/2014
4	Kern River	Any Area	Chevron U.S.A. Inc.	02975045	American Naphtha	D1-31	1400		1458	CHANAC/SANTA MARGARITA	No longer WD (idle since January 2003 converted to OG July 2014	Yes	X	X	no	YES	4	Issued Information Order 8/11/2014
4	Kern River	Any Area	Chevron U.S.A. Inc.	02975049		D3-3	1400		965	CHANAC/SANTA MARGARITA	WD	Yes	X	X	YES	YES	4	Issued Information Order 8/11/2014
4	Kern River	Any Area	Chevron U.S.A. Inc.	02975053	Monte Cristo No. 1	D3-5	1400	585 DF	1412	CHANAC/SANTA MARGARITA	No longer WD (idle since Apr l 2004) converted to OG June 2014	Yes	X	X	no	YES	4	Issued Information Order 5/15/2015
4	Kern River	Any Area	Chevron U.S.A. Inc.	02976134	Gold Standard	WD-1	1018		1773	SANTA MARGARITA	WD - Idle since December 2009	Yes			no	YES	4	Issued Information Order 5/15/2015
4	Kern River	Any Area	Chevron U.S.A. Inc.	02976158	San Joaquin	WD 9	946		1510	CHANAC/SANTA MARGARITA	WD	Yes			no	YES	4	Issued Information Order 5/15/2015
4	Kern River	Any Area	Chevron U.S.A. Inc.	02976159	May	WD-1	946		1450	CHANAC/SANTA MARGARITA	WD - Idle since February 1990	Yes	X	X	YES	YES	4	Issued Information Order 8/11/2014
4	Kern River	Any Area	Chevron U.S.A. Inc.	02977807	KCL-10	212	1018		1259	SANTA MARGARITA	WD - Idle since July 2001	Yes	X	X	YES	YES	4	Issued Information Order 8/11/2014
4	Kern River	Any Area	Chevron U.S.A. Inc.	02979468	Davis Fee	D1-8	1400		1617	CHANAC/SANTA MARGARITA	No longer WD converted to OG (December 2013)	Yes			no	YES	4	Issued Information Order 5/15/2015
4	Kern River	Any Area	Chevron U.S.A. Inc.	02980256		25-WD 1	1018	845 MAT	2182	SANTA MARGARITA	WD	Yes			no	YES	4	Issued Information Order 5/15/2015
4	Kern River	Any Area	Chevron U.S.A. Inc.	02980421	Orient	WD 1	1018		1912	SANTA MARGARITA	WD	Yes			no	YES	4	Issued Information Order 8/11/2014
4	Kern River	Any Area	Chevron U.S.A. Inc.	02983024	Fee A	WDW 3	1018		2075	SANTA MARGARITA	WD - Idle since June 1999	Yes			no	YES	4	Issued Information Order 5/15/2015
4	Kern River	Any Area	Chevron U.S.A. Inc.	02983025	Fee B	WDW 2	1018		1998	SANTA MARGARITA	WS - Ch.	Yes			no	YES	4	Issued Information Order 5/15/2015
4	Kern River	Any Area	Chevron U.S.A. Inc.	02983163	Queen Esther	WD 1	1018		2128	SANTA MARGARITA	WD	Yes			no	YES	4	Issued Information Order 5/15/2015
4	Kern River	Any Area	Chevron U.S.A. Inc.	02983164	Sterling	WD 1	1018		1807	SANTA MARGARITA	WD	Yes			no	YES	4	Issued Information Order 5/15/2015
4	Kern River	Any Area	Chevron U.S.A. Inc.	02983235	Fee A	WDW 4	1018		2078	SANTA MARGARITA	WD	Yes			no	YES	4	Issued Information Order 5/15/2015
4	Kern River	Any Area	Chevron U.S.A. Inc.	02984592	Pearl E. Berry	WD-1	1018		1486	SANTA MARGARITA	WD - Operator sent letter re inquishing injection approval	Yes	X	X	YES	YES	2	Issued Information Order 8/11/2014
4	Kern River	Any Area	Kern River Holdings Inc.	03000162	Nukern	WD-1	1135	555 KB	2085	SANTA MARGARITA	WD	Yes			no	YES	4	Issued Information Order 5/15/2015
4	Kern River	Any Area	Chevron U.S.A. Inc.	03006705	Fee B	WDW 3	1018	595 KB	2015	SANTA MARGARITA	WD	Yes			no	YES	4	Issued Information Order 5/15/2015
4	Kern River	Any Area	Chevron U.S.A. Inc.	03010793	Hotchkiss	14D-10	1018	462 KB	991	SANTA MARGARITA	WD	Yes	X	X	YES	YES	4	Issued Information Order 8/11/2014
4	Kern River	Any Area	Vintage Production Cal fornia LLC	03010794		WD-1	1000	924 KB	333	KERN RIVER	WD operator sent letter relinquishing injection approval		X	X	YES	YES	2	Issued Information Order 3/4/2015
4	Kern River	Any Area	Vintage Production Cal fornia LLC	03010795		WD-2	1000	946 KB	563	KERN RIVER	WD operator sent letter relinquishing injection approval		X	X	YES	YES	2	Issued Information Order 3/4/2015
4	Kern River	Any Area	Kern River Holdings Inc.	03044985	Nukern	WD-2	1135	559 KB	2163	SANTA MARGARITA	WD	Yes			no	YES	4	Issued Information Order 5/15/2015
4	Kern River	Any Area	Kern River Holdings Inc.	03044986	Nukern	WD-3	1135	559 kb	2125	SANTA MARGARITA	WD	Yes			no	YES	4	Issued Information Order 5/15/2015
4	Kern River	Any Area	Gray Development Co. LLC	03046344	Gray	WD-1	500	536 KB	772	SANTA MARGARITA	Order issued	Yes	X	X	YES	YES	1 (Order No. 1063)	Issued Information Order 8/11/2014
4	Kern River	Any Area	Kern River Holdings Inc.	03050678	Ferne	SWD-2	1135	578 KB	2195	SANTA MARGARITA	WD	Yes			no	YES	4	Issued Information Order 5/15/2015
4	Kern River	Any Area	Kern River Holdings Inc.	03050753	Orloff	SWD-1	1135	537 KB	2233	SANTA MARGARITA	WD	Yes			no	YES	4	Issued Information Order 5/15/2015
4	McKittrick	Northeast	Linn Operating Inc.	02958657		9-2	1975	1058 DF	420	TULARE (UPPER AIR SANDS)	WD - operator sent letter relinquishing injection approval		X	X	YES	YES	2	Issued Information Order 3/4/2015
4	McKittrick	Northeast	Chevron U.S.A. Inc.	02979339	Giant	10-WW	2740		160	TULARE	Well has been plugged and abandoned (February 2015)		X	X	no	YES	4	Issued Information Order 3/4/2015
4	McKittrick	Northeast	Chevron U.S.A. Inc.	02979439	Del Monte	3-WW	2740	1085 KB	273	TULARE	Well has been plugged and abandoned (February 2015)		X	X	no	YES	4	Issued Information Order 3/4/2015
4	McKittrick	Northeast	Linn Operating Inc.	03001169		BW 5	1975	1035 KB	350	TULARE (UPPER AIR SANDS)	WD - operator sent letter relinquishing injection approval		X	X	YES	YES	2	Issued Information Order 3/4/2015
4	McKittrick	Northeast	Linn Operating Inc.	03042399		WD 3	1975	1052 KB	310	TULARE (UPPER AIR SANDS)	WD - operator sent letter relinquishing injection approval		X	X	YES	YES	2	Issued Information Order 3/4/2015
4	Midway-Sunset	Any Area	Linn Operating Inc.	02963183	Fairfield	85	2800	1430	1374	POTTER	WD - Directional we l into HC zone TDS is 4 630		X		no	YES	4	No order issued - injection into exempted zone (non-hydrocarbon)
4	Midway-Sunset	Any Area	Linn Operating Inc.	02982689	Fairfield	166	2800		1410	POTTER	WD -Directional we l into HC zone shut-in since January 2015 TDS is 4 630 mg/l		X		no	YES	4	No order issued - injection into exempted zone (non-hydrocarbon)
4	Mount Poso	Baker-Grover	Pace Diversified Corporation	02958273	Tribe-B	65WD-28	1200	1065 KB	559	OLCESE	Order issued		X	X	YES	YES	1 (Order No. 1057)	Issued Information Order 7/15/2014
4	Mount Poso	Dominion	Vintage Production California LLC	02942966	Kelley-Knapp	8	539	1096 KB	1494	OLCESE	Order issued		X	X	YES	YES	1 (Order No. 1060)	Issued Information Order 7/2/2014
4	Mount Poso	Main	Vintage Production Cal fornia LLC	02947370	Vedder-Rall	W.D. 314	2900	1223 DF	2365	PYRAMID HILL/VEDDER	WD - Idle since June 1998				no	YES	4	Issued Information Order 5/15/2015
4	Mount Poso	Main	Vintage Production Cal fornia LLC	02947371	Vedder-Rall	W.D. 316	2900	1201 DF	2368	PYRAMID HILL/VEDDER	WD - Idle since June 1998				no	YES	4	Issued Information Order 5/15/2015
4	Mount Poso	Main	Vintage Production California LLC	02950412	Shapiro	234	1069	1014 DF	1760	VEDDER/WALKER	WD. For possible shut-in on Oct. 15.	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Mount Poso	Main	Pace Diversified Corporation	02950650	Tribe A	10	916	838 KB	233	OLCESE	Order issued		X	X	YES	YES	1 (Order No. 1057)	Issued Information Order 7/15/2014
4	Mount Poso	Main	Vintage Production California LLC	02950738	Shapiro	222	1069	1063 KB	1860	VEDDER/WALKER	WD. For possible shut-in on Oct. 15.	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Mount Poso	Main	Vintage Production Cal fornia LLC	02957201	Rench	WD 346	2900	877 DF	1656	PYRAMID HILL/VEDDER	WD. Idle since March 2002				no	YES	4	Issued Information Order 5/15/2015
4	Mount Poso	Main	Vintage Production Cal fornia LLC	02965841	Vedder-Rall	WD 325	2900	1218 KB	2340	PYRAMID HILL/VEDDER	WD. For possible shut-in on Oct. 15.				no	YES	4	Issued Information Order 5/15/2015
4	Mount Poso	Main	Vintage Production California LLC	02967085	Shapiro	365 WD	1069	1034 DF	1840	VEDDER/WALKER	WD. For possible shut-in on Oct. 15.	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Mount Poso	Main	Vintage Production California LLC	02967509	B.N.B.	256	619	1050 DF	1751	PYRAMID HILL	No longer WD converted to OG February 1986				no	YES	4	Issued Information Order 5/15/2015

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4	Mount Poso	Main	Vintage Production Cal fornia LLC	02968645	Vedder-Rall	WD 143	2900	1365 DF	2069	PYRAMID HILL/VEDDER	WD - Idle since June 1998				no	YES	4	Issued Information Order 5/15/2015
4	Mount Poso	Main	Vintage Production Cal fornia LLC	02968733	Matthew Fee	232WD	2900	1177 DF	2000	PYRAMID HILL/VEDDER	WD. For possible shut-in on Oct. 15.				no	YES	4	Issued Information Order 5/15/2015
4	Mount Poso	Main	Vintage Production Cal fornia LLC	02968734	Matthew Fee	263WD	2900	1160 DF	1881	PYRAMID HILL/VEDDER	WD - Idle since May 1998				no	YES	4	Issued Information Order 5/15/2015
4	Mount Poso	Main	Vintage Production Cal fornia LLC	02968909	Vedder-Rall	WD 131R	2900	1342 DF	1970	PYRAMID HILL/VEDDER	WD - Idle since April 1999				no	YES	4	Issued Information Order 5/15/2015
4	Mount Poso	Main	Vintage Production Cal fornia LLC	02969364	Vedder	WD 881	2900	1215 DF	1492	PYRAMID HILL/VEDDER	WD Idle operator sent letter relinquishing injec ion approval		X	X	YES	YES	2	Issued Information Order 3/4/2015
4	Mount Poso	Main	Vintage Production Cal fornia LLC	02973976	Matthew Fee	272WD	2900	1136 DF	1829	PYRAMID HILL/VEDDER	WD - Idle since May 1998				no	YES	4	Issued Information Order 5/15/2015
4	Mount Poso	Main	Vintage Production Cal fornia LLC	02974055	Matthew Fee	276WD	2900	1136 DF	1878	PYRAMID HILL/VEDDER	WD. For possible shut-in on Oct. 15.				no	YES	4	Issued Information Order 5/15/2015
4	Mount Poso	Main	Pace Diversified Corporation	02974716	Tribe A	14	1652	840 KB	2092	VEDDER	WD - Idle since July 1995				no	YES	4	Issued Information Order 5/15/2015
4	Mount Poso	Main	Vintage Production Cal fornia LLC	02976530	Sarrett Fee	445WD	2900		1934	PYRAMID HILL/VEDDER	WD - Idle since September 1998				no	YES	4	Issued Information Order 5/15/2015
4	Mount Poso	Main	Vintage Production California LLC	02976604	Shapiro	132	1069	1051 DF	1734	VEDDER/WALKER	WD New. Never injected. For Cat. 3 review of the Vedder zone.	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Mount Poso	Main	Vintage Production California LLC	02976605	Shapiro	134	1069	1067 DF	1764	VEDDER/WALKER	WD. For Cat. 3 review of the Vedder zone.	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Mount Poso	Main	Vintage Production Cal fornia LLC	02982922	Vedder-Rall	WD 155R	2900	1314 DF	1987	PYRAMID HILL/VEDDER	WD - Idle since September 2000				no	YES	4	Issued Information Order 5/15/2015
4	Mount Poso	West	Macpherson Operating Company L.P.	02914048	Ring 18	9	2199	1041 GL	600	VEDDER	WD into exempted zone		X		no	YES	4	No order issued - injection into exempted zone (hydrocarbon)
4	Mount Poso	West	Macpherson Operating Company L.P.	02914064	Ring 20	3	2328	949 KB	920	OLCESE	Order issued		X	X	YES	YES	1 (Order No. 1056)	Issued Information Order 7/2/2014
4	Mount Poso	West	Macpherson Operating Company L.P.	02987404	Ring 18	21	2199	993 KB	2380	VEDDER	WD into exempted zone				no	YES	4	Issued Information Order 5/15/2015
4	Mount Poso	West	Macpherson Operating Company L.P.	03042925	Ring 18	WD-1	2199	1042 KB	2430	VEDDER	WD. Pursuing AE. Injection within HC zone Feb. 2017 dead ine app ies.				no	YES	4	Issued Information Order 5/15/2015
4	Mountain View	Arvin	Sunray Petroleum Inc.	02914595	George	19	964	479 KB	2928	KERN RIVER	WD Idle exempt zone				no	YES	4	No order issued - injection into exempted zone (non-hydrocarbon)
4	Mountain View	Main	Bennett Petroleum Inc.	02914276	Mott	1	1232	450 GL	3890	KERN RIVER/CHANAC	WD - Idle (exempt zone). For Cat. 3 review of the Chanac zone.				no	YES	4	Issued Information Order 5/15/2015
4	Poso Creek	Enas	E & B Natural Resources Management Corporation	02916041	Cuccia-U.S.L.	76	1105	660 KB	1942	ETCHEGOIN/CHANAC	WD - Idle since Jan. 2007		X	X	YES	YES	4	Issued Information Order 3/4/2015
4	Poso Creek	McVan	Linn Operating Inc.	02958126	USL	14-16SWD	2060	853 KB	1478	SANTA MARGARITA	WD into exempted zone		X		no	YES	4	No order issued - injection into exempted zone (non-hydrocarbon)
4	Poso Creek	McVan	E & B Natural Resources Management Corporation	02960214	Claf in	10	262	961 KB	1322	ETCHEGOIN	WD.		X	X	YES	YES	4	Issued Information Order 3/4/2015
4	Poso Creek	McVan	Linn Operating Inc.	03027059	USL	17-3WD	2060	919 KB	1628	SANTA MARGARITA	WD into exempted zone		X		no	YES	4	No order issued - injection into exempted zone (non-hydrocarbon)
4	Poso Creek	McVan	Linn Operating Inc.	03027060	USL	10-1WD	2060	968 KB	1529	SANTA MARGARITA	WD into exempted zone		X		no	YES	4	No order issued - injection into exempted zone (non-hydrocarbon)
4	Poso Creek	McVan	Linn Operating Inc.	03032463	McVan	WDW 3	2060	786 KB	1510	SANTA MARGARITA	WD into exempted zone		X		no	YES	4	No order issued - injection into exempted zone (non-hydrocarbon)
4	Poso Creek	McVan	Linn Operating Inc.	03038897	McVan	WDW4	2060	799 KB	1466	SANTA MARGARITA	WD into exempted zone		X		no	YES	4	No order issued - injection into exempted zone (non-hydrocarbon)
4	Poso Creek	McVan	Linn Operating Inc.	03040214	Poso	WDW 5	2060	809 KB	1483	SANTA MARGARITA	WD into exempted zone		X		no	YES	4	No order issued - injection into exempted zone (non-hydrocarbon)
4	Poso Creek	McVan	E & B Natural Resources Management Corporation	03052514	Enas Fee	WD1	480		3537	SANTA MARGARITA	Exempt zone				no	YES	4	No order issued - Previous injection in exempted zone (hydrocarbon)
4	Poso Creek	Premier	E & B Natural Resources Management Corporation	02914764	New Hope	SWD1	1486	567 DF	2287	SANTA MARGARITA	WD into exempted zone				no	YES	4	No order issued - Previous injection in exempted zone (hydrocarbon)
4	Poso Creek	Premier	E & B Natural Resources Management Corporation	02958585	USL	12-4	570	605 KB	2200	BASAL CHANAC/SANTA MARGARITA	WD into exempted zone				no	YES	4	Issued Information Order 5/15/2015
4	Poso Creek	Premier	E & B Natural Resources Management Corporation	02959841	Federal	8-1	2734	622 KB	2916	CHANAC/SANTA MARGARITA	WD. For possible shut-in on Oct. 15.				no	YES	4	Issued Information Order 5/15/2015
4	Poso Creek	Premier	E & B Natural Resources Management Corporation	02975129	Midway Premier	62	1486	674 DF	2880	SANTA MARGARITA	WD into exempted zone				no	YES	4	No order issued - Previous injection in exempted zone (hydrocarbon)
4	Poso Creek	Premier	E & B Natural Resources Management Corporation	02984583	USL	2-6	570	714 GL	2660	BASAL CHANAC/SANTA MARGARITA	WD - Ch.-S.M. shut-in as of March 2015. Only open to SM - exempt zone				no	YES	4	Issued Information Order 5/15/2015
4	Poso Creek	Premier	E & B Natural Resources Management Corporation	03033614	New Hope	21WD	1486	463 KB	2295	SANTA MARGARITA	WD into exempted zone				no	YES	4	No order issued - Previous injection in exempted zone (hydrocarbon)
4	Poso Creek	Premier	E & B Natural Resources Management Corporation	03033616	New Hope	23WD	1486	496 KB	2295	SANTA MARGARITA	WD into exempted zone				no	YES	4	No order issued - Previous injection in exempted zone (hydrocarbon)
4	Poso Creek	Premier	E & B Natural Resources Management Corporation	03034634	New Hope	24WD	1486	607 KB	2330	SANTA MARGARITA	WD into exempted zone				no	YES	4	No order issued - Previous injection in exempted zone (hydrocarbon)
4	Poso Creek	Premier	E & B Natural Resources Management Corporation	03034900	New Hope	12WD	1486	432 KB	2640	SANTA MARGARITA	WD into exempted zone				no	YES	4	No order issued - Previous injection in exempted zone (hydrocarbon)
4	Poso Creek	Premier	E & B Natural Resources Management Corporation	03050777	Section 21	WD5	1486	650 KB	2756	ETCHEGOIN/SANTA MARGARITA	WD New - Et. Active				no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Coffee Canyon	Macpherson Oil Company	02942612	Pearce	7-1	1265	799 KB	1567	PYRAMID HILL/VEDDER	WD				no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Coffee Canyon	Arthur McAdams	02976603	Caldwell	13	1980	1010 KB	2070	PYRAMID HILL/VEDDER	WD				no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Coffee Canyon	Macpherson Oil Company	03049700	West Signal	WD-8R	1265	774 DF	1891	WALKER	WD. Pursuing AE. Injection within HC zone Feb. 2017 dead ine app ies.	Yes			no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Main	Pace Diversified Corporation	02918136	Newbery-Gibson	8	2000	815 KB	2450	VEDDER/WALKER	WD. The Walker is exempt. For Cat. 3 review of the Vedder zone.	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Main	Macpherson Oil Company	02946951		WD-1	1967	1210 KB	2256	VEDDER/WALKER	WD. Pursuing AE. Injection within HC zone Feb. 2017 dead ine app ies.	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Main	Macpherson Oil Company	02947362		WD-2	1967	1158 GL	2349	VEDDER/WALKER	WD. Pursuing AE. Injection within HC zone Feb. 2017 dead ine applies.	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Main	Macpherson Oil Company	02947441	Olcese	WD-342	2835		2170	OLCESE/FREEMAN-JEWETT/VED/WALK	WD	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Main	Macpherson Oil Company	02947543	Jewett	WD-227	2835	820 DF	1983	OLCESE/FREEMAN-JEWETT/VED/WALK	WD	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Main	Macpherson Oil Company	02969119		WD 1	1967	1239 KB	2095	VEDDER/WALKER	WD	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Main	Macpherson Oil Company	02969120		WD 2	1967	1405 KB	2503	VEDDER/WALKER	WD	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Main	Macpherson Oil Company	03009336		WD-4	1967	1010 GL	2144	VEDDER/WALKER	No longer WD converted to OG July 2011	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015

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4	Round Mountain	Main	Macpherson Oil Company	03022157		WD-6	1967	1237 KB	2359	VEDDER/WALKER	WD. Pursuing AE. Injection within HC zone Feb. 2017 dead ine app ies.	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Main	Macpherson Oil Company	03031655	KCL	WD-1	1967	1158 KB	2428	VEDDER/WALKER	WD. Pursuing AE. Injection within HC zone Feb. 2017 dead ine applies.	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Main	Macpherson Oil Company	03031656	Thomas	WD-1	1967	1164 KB	2354	VEDDER/WALKER	WD. Pursuing AE. Injection within HC zone Feb. 2017 dead ine applies.	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Main	Macpherson Oil Company	03033731		WD-7	1967	1477 KB	2554	VEDDER/WALKER	WD. Pursuing AE. Injection within HC zone Feb. 2017 dead ine applies.	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Main	Macpherson Oil Company	03035699	KCL	WD-2	1967	1226 KB	2480	VEDDER/WALKER	WD. Pursuing AE. Injection within HC zone Feb. 2017 dead ine applies.	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Main	Macpherson Oil Company	03037954		WD-3	1967	1073 KB	1953	VEDDER/WALKER	WD. Pursuing AE. Injection within HC zone Feb. 2017 dead ine applies.	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Main	Macpherson Oil Company	03040869	Thomas	WD-2	1967	1038 KB	2208	VEDDER/WALKER	WD. Pursuing AE. Injection within HC zone Feb. 2017 dead ine applies.	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Main	Macpherson Oil Company	03041397		WD-8	1967	1115 KB	2196	VEDDER/WALKER	WD. Pursuing AE. Injection within HC zone Feb. 2017 dead ine applies.	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Main	Macpherson Oil Company	03042188		WD-9	1967	1314 KB	2388	VEDDER/WALKER	WD. Pursuing AE. Injection within HC zone Feb. 2017 dead ine applies.	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Main	Macpherson Oil Company	03043514	Thomas	TOW-2	1967	1174 KB	2466	VEDDER/WALKER	WD. Pursuing AE. Injection within HC zone Feb. 2017 dead ine applies.	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Main	Macpherson Oil Company	03043896		WD-10	1967	1243 KB	2067	VEDDER/WALKER	WD. Pursuing AE. Injection within HC zone Feb. 2017 dead ine applies.	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Main	Macpherson Oil Company	03044556	KCL	WD-3	1967	1112 KB	2400	VEDDER/WALKER	WD. Pursuing AE. Injection within HC zone Feb. 2017 dead ine applies.	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Main	Macpherson Oil Company	03046642	USL 18	WD-12	1967	1176 KB	2368	VEDDER/WALKER	WD. Pursuing AE. Injection within HC zone Feb. 2017 dead ine applies.	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Main	Macpherson Oil Company	03046643	USL 18	WD-13	1967	1176 DF	2390	VEDDER/WALKER	WD. Pursuing AE. Injection within HC zone Feb. 2017 dead ine applies.	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Main	Macpherson Oil Company	03046653	KCL	WD-4	1967	1208 KB	2469	VEDDER/WALKER	WD. Pursuing AE. Injection within HC zone Feb. 2017 dead ine applies.	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Main	Macpherson Oil Company	03051196		WD-16	1967	1295	2408	VEDDER/WALKER	WD. Pursuing AE. Injection within HC zone Feb. 2017 dead ine applies.	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Main	Macpherson Oil Company	03051197		WD-17	1967	1295	2416	VEDDER/WALKER	WD. Pursuing AE. Injection within HC zone Feb. 2017 dead ine applies.	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Main	Macpherson Oil Company	03051959	Olcese 1	WD-343R	2835	1133 df	2644	OLCESE/FREEMAN-JEWETT/VED/WALK	WD - Ve.-Wa.	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Main	Macpherson Oil Company	03051960	Olcese 1	WD-344	2835	1143 DF	2173	OLCESE/FREEMAN-JEWETT/VED/WALK	WD	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Main	Macpherson Oil Company	03054306		WD 4H	1967	1173 KB	3058	VEDDER/WALKER	WD new. Pursuing AE. Injection within HC zone Feb. 2017 dead ine app ies.	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Sharktooth	Macpherson Oil Company	02918114	Bishop	6	2693	1100 GL	840	OLCESE	Order issued		X	X	YES	YES	1 (Order No. 1064)	Issued Information Order 8/11/2014
4	Round Mountain	Sharktooth	Macpherson Oil Company	02918119	Malta	3	2693	987 GL	740	OLCESE	Well plugged on June 4 2015		X	X	YES	YES	4	Issued Information Order 8/11/2014
4	Tejon	Western	Vintage Production Cal fornia LLC	02969623		330-32	2500	1088 KB	3000	TRANSITION/SANTA MARGARITA	WD. For possible shut-in on Oct. 15.				no	YES	4	Issued Information Order 5/15/2015
4	Tejon	Western	Vintage Production Cal fornia LLC	03026630		WWD3-32	2255	1034 KB	3075	TRANSITION	WF -Pursuing AE. Injection within HC zone Feb. 2017 dead ine app ies.				no	YES	4	Issued Information Order 5/15/2015
4	Tejon	Western	Vintage Production Cal fornia LLC	03053049	J.V.	WWD7-32	2255	1085 KB	3358	TRANSITION	WF -Pursuing AE. Injection within HC zone Feb. 2017 dead ine app ies.				no	YES	4	Issued Information Order 5/15/2015
4	Tejon	Western	Vintage Production Cal fornia LLC	03053050	J.V.	WWD8-32	2400	1045 KB	3557' top of slo ted liner 3587' csg Shoe	TRANSITION	No injection - WF- Pursuing AE. Injection within HC zone Feb. 2017 deadline applies.				no	YES	4	No order issued - injection we l never permitted (no injection)
4	Union Avenue	Any Area	Trio Petroleum LLC	02920701	Roberts	1	1845	403 GL	3738	CHANAC/SANTA MARGARITA	No longer WD (since June 1998) converted to OG March 2006				no	YES	4	Issued Information Order 5/15/2015
4	Union Avenue	Any Area	Trio Petroleum LLC	02942258	Pon	1	1845	414 KB	4330	CHANAC/SANTA MARGARITA	WD - S.M. exempt zone. Injecting into Chanac which is H.C. exempt in the area.				no	YES	4	Issued Information Order 5/15/2015
4	Union Avenue	Any Area	Trio Petroleum LLC	03007190	Unit	1	1845	414 KB	4410	CHANAC/SANTA MARGARITA	WD - idle shut-in since May 2013				no	YES	4	Issued Information Order 5/15/2015

We ls that have been identified as needing to cease injection on October 15 2015 and will require an aqu fer exemption before injection is allowed to continue.

Attachment B

District Number	FieldName	AreaName	OperatorName	APINumber	LeaseName	Wel Number	Zone TDS Data	Elevation	Top Perf	InjectionZone	Current Status (Oct. 13 2015 Update)	Permitted into 11 Historically Exempt Aquifers?	Identified as Potentially Impacting Water Supply Wells (PIWSW)	Identified as one of the 53 (Page 2 and Attachment I 5/15/2015 letter)	Action required by DOGGR (Enclosure D part 1 b i)	Action required by Water Board (Enclosure D part 1 b i and ii)	DOGGR Action taken 1) Issued Cease Injection Order 2) Operator voluntarily re inquished perm t 3) Provide rationale (see Current Status) or 4) No action necessary	Add tional Comments
4	Fru tvale	Main	Gordon Dole	02950233	State	1	904	443 KB	2835	ETCHEGOIN (FAIRHAVEN)	WD				no	YES	3 - evaluating AE package	Issued Information Order 5/15/2015
4	Mount Poso	Main	Vintage Production Cal fornia LLC	02947370	Vedder-Rall	W.D. 314	2900	1223 DF	2365	PYRAMID HILL VEDDER	WD - Idle since June 1998				no	YES	4	Issued Information Order 5/15/2015
4	Mount Poso	Main	Vintage Production Cal fornia LLC	02947371	Vedder-Rall	W.D. 316	2900	1201 DF	2368	PYRAMID HILL VEDDER	WD - Idle since June 1998				no	YES	4	Issued Information Order 5/15/2015
4	Mount Poso	Main	Vintage Production California LLC	02950412	Shapiro	234	1069	1014 DF	1760	VEDDER/WALKER	WD. For possible shut-in on Oct. 15.	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Mount Poso	Main	Vintage Production California LLC	02950738	Shapiro	222	1069	1063 KB	1860	VEDDER/WALKER	WD. For possible shut-in on Oct. 15.	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Mount Poso	Main	Vintage Production Cal fornia LLC	02957201	Rench	WD 346	2900	877 DF	1656	PYRAM D HILL/VEDDER	WD. Idle since March 2002				no	YES	4	Issued Information Order 5/15/2015
4	Mount Poso	Main	Vintage Production Cal fornia LLC	02965841	Vedder-Rall	WD 325	2900	1218 KB	2340	PYRAMID HILL/VEDDER	WD. For possible shut-in on Oct. 15.				no	YES	4	Issued Information Order 5/15/2015
4	Mount Poso	Main	Vintage Production California LLC	02967085	Shapiro	365 WD	1069	1034 DF	1840	VEDDER/WALKER	WD. For possible shut-in on Oct. 15.	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Mount Poso	Main	Vintage Production Cal fornia LLC	02968645	Vedder-Rall	WD 143	2900	1365 DF	2069	PYRAMID HILL/VEDDER	WD - Idle since June 1998				no	YES	4	Issued Information Order 5/15/2015
4	Mount Poso	Main	Vintage Production Cal fornia LLC	02968733	Matthew Fee	232WD	2900	1177 DF	2000	PYRAMID HILL/VEDDER	WD. For possible shut-in on Oct. 15.				no	YES	4	Issued Information Order 5/15/2015
4	Mount Poso	Main	Vintage Production Cal fornia LLC	02968734	Matthew Fee	263WD	2900	1160 DF	1881	PYRAMID HILL/VEDDER	WD - Idle since May 1998				no	YES	4	Issued Information Order 5/15/2015
4	Mount Poso	Main	Vintage Production Cal fornia LLC	02968909	Vedder-Rall	WD 131R	2900	1342 DF	1970	PYRAMID HILL/VEDDER	WD - Idle since April 1999				no	YES	4	Issued Information Order 5/15/2015
4	Mount Poso	Main	Vintage Production Cal fornia LLC	02973976	Matthew Fee	272WD	2900	1136 DF	1829	PYRAMID HILL/VEDDER	WD - Idle since May 1998				no	YES	4	Issued Information Order 5/15/2015
4	Mount Poso	Main	Vintage Production Cal fornia LLC	02974055	Matthew Fee	276WD	2900	1136 DF	1878	PYRAMID HILL/VEDDER	WD. For possible shut-in on Oct. 15.				no	YES	4	Issued Information Order 5/15/2015
4	Mount Poso	Main	Pace Diversified Corporation	02974716	Tribe A	14	1652	840 KB	2092	VEDDER	WD - Idle since July 1995				no	YES	4	Issued Information Order 5/15/2015
4	Mount Poso	Main	Vintage Production Cal fornia LLC	02976530	Sarre t Fee	445WD	2900		1934	PYRAMID HILL/VEDDER	WD - Idle since September 1998				no	YES	4	Issued Information Order 5/15/2015
4	Mount Poso	Main	Vintage Production Cal fornia LLC	02982922	Vedder-Rall	WD 155R	2900	1314 DF	1987	PYRAMID HILL/VEDDER	WD - Idle since September 2000				no	YES	4	Issued Information Order 5/15/2015
4	Poso Creek	Enas	E & B Natural Resources Management Corporation	02916041	Cuccia-U.S.L.	76	1105	660 KB	1942	ETCHEGOIN/CHANAC	WD - Idle since Jan. 2007		X	X	YES	YES	4	Issued Information Order 3/4/2015
4	Poso Creek	McVan	E & B Natural Resources Management Corporation	02960214	Claflin	10	262	961 KB	1322	ETCHEGOIN	WD.		X	X	YES	YES	4	Issued Information Order 3/4/2015
4	Poso Creek	Premier	E & B Natural Resources Management Corporation	02959841	Federal	8-1	2734	622 KB	2916	CHANAC/SANTA MARGARITA	WD. For possible shut-in on Oct. 15.				no	YES	4	Issued Information Order 5/15/2015
4	Poso Creek	Premier	E & B Natural Resources Management Corporation	03050777	Section 21	WD5	1486	650 KB	2756	ETCHEGOIN/SANTA MARGARITA	WD New - Et. Active				no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Coffee Canyon	Macpherson O l Company	02942612	Pearce	7-1	1265	799 KB	1567	PYRAMID HILL/VEDDER	WD				no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Coffee Canyon	Arthur McAdams	02976603	Caldwe l	13	1980	1010 KB	2070	PYRAMID HILL VEDDER	WD				no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Main	Macpherson O l Company	02947441	Olcese	WD-342	2835		2170	OLCESE/FREEMAN-JEWETT/VED/WALK	WD	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Main	Macpherson O l Company	02947543	Jewett	WD-227	2835	820 DF	1983	OLCESE/FREEMAN-JEWETT/VED/WALK	WD	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Main	Macpherson O l Company	02969119		WD 1	1967	1239 KB	2095	VEDDER/WALKER	WD	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Main	Macpherson O l Company	02969120		WD 2	1967	1405 KB	2503	VEDDER/WALKER	WD	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Main	Macpherson O l Company	03051959	Olcese 1	WD-343R	2835	1133 df	2644	OLCESE/FREEMAN-JEWETT/VED/WALK	WD - Ve.-Wa.	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Round Mountain	Main	Macpherson O l Company	03051960	Olcese 1	WD-344	2835	1143 DF	2173	OLCESE/FREEMAN-JEWETT/VED/WALK	WD	Wa. - Yes			no	YES	4	Issued Information Order 5/15/2015
4	Tejon	Western	Vintage Production Cal fornia LLC	02969623		330-32	2500	1088 KB	3000	TRANSITION/SANTA MARGARITA	WD. For possible shut-in on Oct. 15.				no	YES	4	Issued Information Order 5/15/2015
4	Union Avenue	Any Area	Trio Petroleum LLC	03007190	Unit	1	1845	414 KB	4410	CHANAC/SANTA MARGARITA	WD - idle shut-in since May 2013				no	YES	4	Issued Information Order 5/15/2015

District	Field	Area	Operator	API	Lease Name	Well Number	Date of Previous Info Order	Historically treated as exempt	Zone TDS Data	Injection Zone	Top Perf	Elevation	SWB Data - Number of Water Supply Wells Ident fied within One Mile Radius	DOGGR Action	We l Status	Well Type	Well Type Status
2	Newhall	Whitney Canyon Area	Watt Mineral Holdings LLC	03713052	Phil ips	1	na	no	~~6000~~ 1161	Lower Kraft Zone - Pico (Pliocene) Formation	475		5	For shut-in on October 15 2015	A	WD	A
2	Sespe	Tar Creek-Topatopa Area	Seneca Resources Corporation	11102615	Twilight	2	na	no	~~4600~~ 900	Rincon-Vaqueros (Miocene) and Upper Sespe (Oligocene)	930		0	For shut-in on October 15 2015	A	WD	A

Attachment C

District	Field	Area	Operator	API	Lease Name	Well Number	Date of Previous Info Order	Historically treated as exempt	Zone TDS Data	Injection Zone	Top Perf	Elevation	SWB Data - Number of Water Supply Wells Identifed within One Mile Radius	DOGGR Action	Well Status	Well Type	Well Type Status
2	Newhall	Whitney Canyon Area	Watt Mineral Holdings LLC	03713052	Phillips	1	na	no	~~6000~~ 1161	"Lower Kraft" Zone - Pico (Pliocene) Formation	475		5	For shut-in on October 15, 2015	A	WD	A
2	Sespe	Tar Creek-Topatopa Area	Seneca Resources Corporation	11102615	Twilight	2	na	no	~~4600~~ 900	Rincon-Vaqueros (Miocene) and Upper Sespe (Oligocene)	930		0	For shut-in on October 15, 2015	A	WD	A

Page 7-330 of the EIR, Section 7.2, Global Response Water-5, Table 7-15, *is revised as follows:*

Table 7-15: Oil and Gas Exploration and Production Produced and M&I Water Supply and Demand 2012 and 2035 (Scenarios 1, 2, and 3), Revised WSA Estimates

	2012	Scenario 1 Pro-Rata Increase	Scenario 2 50% Surface Disposal Reduction	Scenario 3 Full M&I Water Use Offset and 90% Surface Disposal Reduction
Water Supplied				
Produced Water	234,959	321,894	321,894	321,894
M&I Water	8,778	11,761	11,761	11,761
TOTAL	243,737	333,655	333,655	333,655
Water Use				
Treated Produced Water				
EOR water and steam injections, pressure maintenance and well pulling	88,668	121,215	121,215	121,215
Coil tubing, dust control, surface facility construction	144	197	197	197
Oil and gas produced water reuse	88,812	121,412	121,412	121,412
Agricultural reuse	38,658	38,658	38,658	50,419
Subtotal: Produced Water Reuse	127,470	160,070	160,070	171,831
M&I Water				
New Well Construction (Drill Mud+Well Stimulation)	589	789	789	789
Maintenance (Mud Services + Cementing)	61	82	82	82
Maintenance (Acidizing + Coil Tubing)	52	70	70	70
Maintenance (Well Pulling + Domestic Water)	594	796	796	796
Well Abandonment	202	271	271	271
Steam Production	7,279	9,754	9,754	9,754
Oil and gas M&I water demand	8,778	11,761	11,761	11,761
Subtotal: Oil and Gas Water Demand, M&I and Produced Water	97,590	133,173	133,173	133,173
Injection Well Disposal	84,571	119,539	146,358	146,970
Produced Water Land Disposal	30,931	42,285	15,466	3,093

Table 7-15: Oil and Gas Exploration and Production Produced and M&I Water Supply and Demand 2012 and 2035 (Scenarios 1, 2, and 3), Revised WSA Estimates

	2012	Scenario 1 Pro-Rata Increase	Scenario 2 50% Surface Disposal Reduction	Scenario 3 Full M&I Water Use Offset and 90% Surface Disposal Reduction
Subtotal: Oil and Gas Produced Water Waste Disposal	~~114,794~~115,502	161,824	161,824	150,063
TOTAL	243,737	333,655	333,655	333,655

Sources: Appendix t-1, Table 28 and DEIR Table 4.9-27; the 2012 summary includes a water balance closure factor of -4,104 as discussed in Table 7-12 above.

Page 7-340 of the EIR, Section 7.2, Global Response Water-8, *is revised as follows:*

As described in Chapter 4.9 – Hydrology and Water Quality (pp. 4.9-139-140) and Chapter 4.17 – Utilities and Service Systems (DEIR pp. 4.17-12-13, 20), approximately 234,959 acre feet (AF) of produced water was generated in the Project Area during the 2012 baseline period. Approximately 16% of this total (38,658 AF) was treated and supplied to the Cawelo Water District (CWD) (37,107 AF) and for other agricultural irrigation (1,551 AF) in 2012 (see Appendix T-1, Section 4.3.6.2) for agricultural irrigation. ~~Subsequent data provided to the Central Valley Regional Water Quality Control Board (CVRWQCB) indicated that the total amount of treated produced water provided to CWD was 32,491 AF, or slightly less than the more conservative estimate in the Draft EIR.~~

Section 7.2.2 of the EIR, response to comment 0002-22 *is revised as follows:*

The comment provides background on toxic air contaminants. The comment is noted for the record and will be provided to the Planning Commission and Board of Supervisors for consideration. Please also see GR Air-9~~11~~ for a discussion of the CCST study in relation to air quality.

Section 7.2.2 of the EIR, response to comment 0002-35 *is revised as follows:*

Please see GR Air-9~~11~~ for a discussion of the CCST study in relation to air emissions. Please also see GR Air-3 and GR Air-6 for a discussion of the HRAs which show that even in the worst case scenario, emissions from the Project are below a 10 in one million risk level at only 367 feet from the boundary of a well pad in 2015 and will decline over time as future regulatory controls come in effect.

Section 7.2.2 of the EIR, response to comment 0002-38 *is revised as follows:*

Original Appendix M and Appendix M-1 and M-2 each calculated and modeled both potential carcinogenic effects from diesel exhaust as well as other potential chronic (non-cancer) effects such as other potential health impacts. OEHHA provides the reference exposure levels (ie. how toxic each substance is) for both potential carcinogenic and chronic illness that must be used as part of the risk computer model.

The final chronic results for drilling diesel exhaust in the revised single well HRA in Appendix M-1 are:

Derby Acres = 0.0018

Kern River = 0.00244

Midway Sunset = 0.00396

Shafter = 0.00637

The regulatory standard of significance for chronic illness is 1.0. Thus, an increase of potential diesel emissions of between a 200 times and 500 times increase would still results in potential calculated impacts below the regulatory standard.

Section 7.2.2 of the EIR, response to comment 0002-45 *is revised as follows:*

The commenter notes that the HRA assumed that well construction, drilling, and completion would last 23 days on average, whereas the DEIR noted that these activities could last longer than 60 days. DEIR at 3-41. Twenty-three days is the approximate time to drill a 10,000 foot well, which was determined to represent the maximum time it would take to drill 90-95% of the wells in Kern County. Thus, a 10,000 foot well was chosen as a representative well for purposes of the HRA in the DEIR. Please see GR Air-3. However, a few wells in Kern County are deeper than 10,000 feet and thus could take more time to drill, as referenced in the DEIR at 3-41. For this reason, the revised HRA in Appendix M-1 includes an additional well depth scenario for emission associated with drilling a 15,000 foot well; which can take approximately 66 days. Maximum potential health risks are significantly below the 20 in one million SJVAPCD risk threshold and also below a 10 in one million threshold with the exception of the Western Subarea ~~–~~ Derby Acres which was specifically selected by the SJVAPCD as a modeling site due to its complex terrain. Please see Appendix M-1 and GR Air-6 for a further discussion of this HRA.

Section 7.2.2 of the EIR, response to comment 0002-111, *is revised as follows:*

Commenter's request that the County adopt a mitigation measure that is substantially similar to GW-4a in the SB 4 EIR, which requires adequate "down-hole" cement seals, casings, and other technical specifications. These technical specifications fall within DOGGR's jurisdiction and expertise, and the County anticipates that DOGGR will adopt appropriate standards and permit conditions as part of its permitting authority. The Draft EIR does describe improvements in well casing standards and other well construction practices, which third party experts such as Stanford University have concluded have been

effective in improving the integrity of well casings in recent years. MM ~~4.8-10(b)~~4.9-1 has been revised to require applicants to obtain, and comply with, DOGGR permits to assure that WST activities occur in wells with adequate casings, seals, and other technical specifications. Commenter's further points about the importance of these technical specifications, and adverse consequences from well failures, are noted for the record and will be forwarded to the Planning Commission and Board of Supervisors for their consideration.

Section 7.2.2 of the EIR, response to comment 0002-068, *the last sentence is revised as follows:*

The presence of benzene in produced water does not render it hazardous under federal and California law. See 40 CFR 261.4(b)(5)<u>; 22 CCR 66261.4(b)(2)</u>.

Section 7.2.2 of the EIR, response to comment 002-080, *the last sentence is revised as follows:*

As also explained in GR Water-8, this EIR adds MM 4.8-~~23~~ <u>16</u> concerning use of well stimulation treatment (WST) fluids, which will help address concerns about the potential existence of WST fluids in produced water.

Section 7.2.2 of the EIR, response to comment 002-186, *is revised to read as follows:*

<u>The comment is noted and the description of drilling practices in the EIR is modified to reflect the accurate description. As noted in the comment, this change does not necessitate a change to the EIR's analysis of impacts to groundwater and the conclusion that such impacts are less than significant.</u>

Section 7.2.2 of the EIR, response to comment 0003-009, *is revised as follows:*

Pursuant to Table 28 of the Water Supply Assessment, the total volume of produced water provided for agricultural use to <u>the</u> Cawelo Water District,<u>- (37,107 AF) and other users (1,551 AF) was 38,658 AF in 2012 (see Appendix T-1, Section 4.3.6.2) for agricultural irrigation.</u> ~~Jasmine ([sic] Mutual Water Company and Concordia Ranch. DEIR, Appendix T, p. 64. However, while the total volume of produced water provided for agricultural use was correctly stated in the DEIR, use of this water was attributed wholly to Cawelo Water District.~~ Please see GR Water-8. This comment is noted and accepted for the Final EIR.

Section 7.2.2 of the EIR, responses to comments 0003-035, 0003-036, and 0003-037, *is revised as follows:*

0003-35

The comment is noted <u>and accepted for the Final EIR</u>~~. This appears to be an error in the EIR. Please see GR Water-08 – Produced Water Agriculture~~ <u>.</u>

0003-35 cont'd

0003-36

The comment is noted and accepted for the Final EIR. ~~This appears to be an error in the EIR. Please see GR Water 08 – Produced Water Irrigation~~.

0003-37

The comment is noted and accepted for the Final EIR. ~~Please see GR Water 08 – Produced Water Irrigation~~.

Section 7.2.2 of the EIR, response to comments 0003-020, *is revised to read as follows:*

Hydroflouric acid has not been classified as an acutely hazardous material under RCRA. See 40 C.F.R. § 261.33.

Section 7.2.2 of the EIR, response to comments 0004-048, *is revised to read as follows:*

The Department's suggested text edits that a bullet be added to include BLM sensitive plant species in the list of data sources analyzed is noted and accepted for the Final EIR. The list of BLM California sensitive plant species corresponds to the California Rare Plants Rank 1b (previously known as CNPS list 1b), a designation made by the California Native Plant Society for those plants considered most rare by the California botanical community. The County's sensitive plant species analysis included those species from the California Rare Plants Rank 1b in its analysis, and therefore also analyzed the BLM California sensitive plant species at the same time.

Section 7.2.3 of this EIR *is revised to supplement Responses to Comments 0015-1 through 0015-20 as set forth below:*

0015-1

Commenter concurs with the Traffic Study's estimated costs for intersection improvements, roadway widening, pavement maintenance and safety & geometrics (see Traffic Study, pp. 78-92.) Comment is noted. No additional response is required.

0015-2

Commenter requests that Table 3 in the Traffic Study identify the level of service (LOS) for the 2015 AM Peak Hour on Intersection #355, Real Road & SR 58.

The Draft EIR inadvertently cited to a draft version of the Traffic Study. (See Draft Traffic Study, p. 45.) Table 3 in the Final Traffic Study includes relevant data to clarify that the 2015 AM Peak Hour LOS at Intersection #355, Real Road & SR 58, is LOS C. (Traffic Study, March 2015, p. 45.) This clarification is an insignificant modification to the EIR; it does not trigger recirculation under the standard articulated in the CEQA Guidelines or in CEQA case law. (See CEQA Guidelines § 15088.5, subd. (b) [recirculation is not

required when new information is added that "merely clarifies or amplifies or makes insignificant modifications to an adequate EIR"]; see also CEQA Guidelines § 15088.5, subd. (a) ["new information" added to an EIR is not "significant unless the EIR is changed in a way that deprives the public of a meaningful opportunity to comment upon a substantial environmental effect of the project or a feasible way to mitigate or avoid such an effect (including a feasible project alternative) that the project's proponents have declined to implement"]; *Laurel Heights Improvement Assn. of San Francisco, Inc. v. Regents of the Univ. of Cal.* (1993) 6 Cal.4th1112, 1129 (*Laurel Heights*); *Center for Biological Diversity v. Cal. Dept. of Forestry and Fire Protection* (2014) 232 Cal.App.4th 931, 949 (*CBD*).) Please see Global Response 20 for a more detailed discussion regarding Recirculation.

A signed version of the Final Traffic Study is included in this Chapter 12 as Appendix W-1.

0015-3

Commenter cites to page 93 of the Traffic Study and questions whether the Traffic Study analyzed 101 or 105 intersections. The Draft EIR inadvertently cited to a draft version of the Traffic Study, which incorrectly stated that 105 study intersections were evaluated for operational level of service. (See Draft Traffic Study, pp. 42-45.) As reflected in the final Traffic Study, 101 intersections were analyzed. (See Traffic Study, pp. 42-45.) This clarification does not change any of the analyses or conclusions in the Traffic Study or the EIR. (See CEQA Guidelines § 15088.5, subds. (a)-(b); *Laurel Heights, supra,* 6 Cal.4th at p. 1129; *CBD, supra,* Cal.App.4th at p. 949.) Please see Global Response 20 for a more detailed discussion regarding Recirculation.

0015-4

Commenter questions whether the conclusion on page 93 of the Traffic Study is intended to state that the 34 intersections currently operating below the adopted LOS will be reduced to 15, or whether there will be 15 additional intersections that will operate below the adopted LOS by 2035. The Draft EIR inadvertently cited to a draft version of the Traffic Study. (See Draft Traffic Study, pp. 42-45.) As reflected in the final Traffic Study, 15 additional intersections will operate below the adopted LOS by 2035. (See Traffic Study, pp. 42-45.) This clarification does not change any of the analyses or conclusions in the Traffic Study or the EIR. (See CEQA Guidelines § 15088.5, subds. (a)-(b); *Laurel Heights, supra,* 6 Cal.4th at p. 1129; *CBD, supra,* Cal.App.4th at p. 949.) Please see Global Response 20 for a more detailed discussion regarding Recirculation.

0015-5

In response to the commenter's request, a signed version of the final Traffic Study is attached as Appendix W-1 of this Chapter 12.

0015-6

Commenter cites to page 4.16-4 of the DEIR and questions whether the EIR analyzed 101 or 105 intersections. The Draft EIR inadvertently cited to a draft version of the Traffic Study, which incorrectly stated that 105 study intersections were evaluated for operational level of service. (See Draft Traffic Study, pp. 42-45.) As reflected in the final Traffic Study, 101 intersections were analyzed. (See Traffic Study, pp. 42-45.)

The EIR will be revised to reflect this change. This clarification does not change any of the analyses or conclusions in the Traffic Study or the EIR. (See CEQA Guidelines § 15088.5, subds. (a)-(b); *Laurel Heights, supra,* 6 Cal.4th at p. 1129; *CBD, supra,* Cal.App.4th at p. 949.) Please see Global Response 20 for a more detailed discussion regarding Recirculation.

0015-7

Commenter questions whether the EIR discloses an accurate number of intersections calculated to operate an unacceptable LOS during AM and or PM Peak hours. Page 4.16-5 of the EIR states that 19 intersections were calculated to operate an unacceptable LOS during AM and/or PM Peak hours. This number is incorrect. The Final EIR will be revised to accurately reflect that there are 18 unsignalized intersections and 41 total intersections that will operate at unacceptable LOS. (See Traffic Study, pp. 42-45.)

This clarification does not change any of the analyses or conclusions in the Traffic Study or the EIR. (See CEQA Guidelines § 15088.5, subds. (a)-(b); *Laurel Heights, supra,* 6 Cal.4th at p. 1129; *CBD, supra,* Cal.App.4th at p. 949.) Please see Global Response 20 for a more detailed discussion regarding Recirculation.

0015-8

Commenter requests verification regarding the number of roadway segments evaluated, and states the numbers identified on page 4.16-9 of the DEIR are inconsistent with numbers disclosed earlier in the EIR.

The Draft EIR inadvertently cited to a draft version of the Traffic Study. (See Draft Traffic Study, pp. 46-60.) Per the Final Traffic Study, the volume-to-capacity ratios for the roadways within the study area were calculated with the published annual average daily traffic (AADT) information and future projected traffic. (See Traffic Study, p. 46.) AADT volumes are shown in Table 4 of the Final Traffic Study. (See Traffic Study, pp. 48-60.) A volume-to-capacity ratio (v/c) of greater than 0.80 corresponds to a LOS of less than C, as defined by the *Highway Capacity Manual*. (See Traffic Study, p. 46.) Of the 462 roadways evaluated, 39 roadways are calculated to operate at an unacceptable LOS under existing conditions. (*Id.* at pp. 48-60.)

This clarification does not change any of the analyses or conclusions in the Traffic Study or the EIR. (See CEQA Guidelines § 15088.5, subds. (a)-(b); *Laurel Heights, supra,* 6 Cal.4th at p. 1129; *CBD, supra,* Cal.App.4th at p. 949.) Please see Global Response 20 for a more detailed discussion regarding Recirculation.

0015-9

Commenter requests verification regarding the centerline miles of county roads and state roads disclosed on page 4.16-26 of the DEIR. The Final EIR will be revised to accurately reflect 640 County and 545 State. This clarification does not change any of the analyses or conclusions in the Traffic Study or the EIR. (See CEQA Guidelines § 15088.5, subds. (a)-(b); *Laurel Heights, supra,* 6 Cal.4th at p. 1129; *CBD, supra,* Cal.App.4th at p. 949.) Please see Global Response 20 for a more detailed discussion regarding Recirculation.

0015-10

Commenter asks that page 4.16-42 of the DEIR be revised to reflect the Public Works Department, Building and Development Division, and to delete reference to Engineering, Surveying and Permit Services Department.

The EIR will be revised to reflect this change. This clarification does not change any of the analyses or conclusions in the Traffic Study or the EIR. (See CEQA Guidelines § 15088.5, subds. (a)-(b); *Laurel Heights, supra,* 6 Cal.4th at p. 1129; *CBD, supra,* Cal.App.4th at p. 949.) Please see Global Response 20 for a more detailed discussion regarding Recirculation.

0015-11

Commenter requests clarification regarding the number of intersections evaluated. See Response to Comment 0015-2.

0015-12

Commenter notes that page 4.14-46, Table 4.16-12 in the EIR identifies intersection #112, although that intersection is not identified in the Traffic Study.

The Draft EIR inadvertently cited to a draft version of the Traffic Study which mistakenly included Intersection #112. (See Draft Traffic Study, p. 80.) As reflected in the final Traffic Study, Intersection #112 was not included in the Final Traffic Study and should not be included in the EIR. (See Final Traffic Study, p. 80.) The Final EIR will be revised to reflect this change. This clarification does not change any of the analyses or conclusions in the Traffic Study or the EIR. (See CEQA Guidelines § 15088.5, subds. (a)-(b); *Laurel Heights, supra,* 6 Cal.4th at p. 1129; *CBD, supra,* Cal.App.4th at p. 949.) Please see Global Response 20 for a more detailed discussion regarding Recirculation.

0015-13

Commenter states that the project percent fair share for Intersection #243 is not identified in Table 4.16-12 of the Draft EIR. The Draft EIR inadvertently cited to a draft version of the Traffic Study, and mistakenly omitted the project's percent fair share for Intersection # 243. (See Draft Traffic Study, p. 80.) As reflected in the final Traffic Study, the fair share for Intersection #243 is $35,150. (Traffic Study, p. 80 [18.5% of $190,000].) The Final EIR will be revised to reflect this change. This clarification does not change any of the analyses or conclusions in the Traffic Study or the EIR. (See CEQA Guidelines § 15088.5, subds. (a)-(b); *Laurel Heights, supra,* 6 Cal.4th at p. 1129; *CBD, supra,* Cal.App.4th at p. 949.) Please see Global Response 20 for a more detailed discussion regarding Recirculation.

0015-14

Commenter notes that the quantities in Table 4.16-16 do not match Table 10 in the Traffic Study. The Draft EIR inadvertently cited to a draft version of the Traffic Study, which incorrectly provided that there will be 2,355 lane miles of preventative maintenance; 992 lane miles of corrective maintenance; 877 lane miles of major rehabilitation; and 288 lane miles of roadway reconstruction. (See Draft Traffic Study, p. 76.) As reflected in the final Traffic Study, there will be 4,180 lane miles of preventative maintenance; 1,766 lane miles of corrective maintenance; 1,419 lane miles of major rehabilitation; and 379 lane miles of roadway reconstruction. (See Traffic Study, p. 76.) The Final EIR will be revised to reflect this change. This clarification does not change any of the analyses or conclusions in the Traffic Study or the EIR. (See CEQA Guidelines § 15088.5, subds. (a)-(b); *Laurel Heights, supra,* 6 Cal.4th at p. 1129; *CBD, supra,* Cal.App.4th at p. 949.) Please see Global Response 20 for a more detailed discussion regarding Recirculation.

0015-15

Commenter requests verification regarding the centerline miles of county roads and state roads disclosed on page 4.16-26 of the DEIR. See Response to Comment 0015-9.

0015-16

Commenter notes that the footnote for the Key to table 4.16-17 was omitted from Page 4.16-77 in the Draft EIR. The Final EIR will be revised to include the footnote. This textual revision does not change any of the analyses or conclusions in the Traffic Study or the EIR. (See CEQA Guidelines § 15088.5, subds. (a)-(b); *Laurel Heights, supra,* 6 Cal.4th at p. 1129; *CBD, supra,* Cal.App.4th at p. 949.) Please see Global Response 20 for a more detailed discussion regarding Recirculation.

0015-17

Commenter requests that mitigation measure 4.16-1 be revised to reference the Kern County Public Works Department, rather than the Roads Department. Commenter also requests that mitigation measure 4.16-2 be revised to remove the reference to "roads

Division" from the Kern County Public Works Department and replace the subsequent Roads Department reference with "Kern County Public Works Department."

The Final EIR will be revised to reflect this change. This clarification does not change any of the analyses or conclusions in the Traffic Study or the EIR. (See CEQA Guidelines § 15088.5, subds. (a)-(b); *Laurel Heights, supra,* 6 Cal.4th at p. 1129; *CBD, supra,* Cal.App.4th at p. 949.) Please see Global Response 20 for a more detailed discussion regarding Recirculation.

0015-18

Commenter questions whether the last paragraph on page 4.16-82 of the Draft EIR should state "…with the implementation of MM 4.16-1 and MM 4.16-2."

Commenter is correct in identifying the inadvertent omission of MM 4.16-2. The Final EIR will be revised to reflect this change. This clarification does not change any of the analyses or conclusions in the Traffic Study or the EIR. (See CEQA Guidelines § 15088.5, subds. (a)-(b); *Laurel Heights, supra,* 6 Cal.4th at p. 1129; *CBD, supra,* Cal.App.4th at p. 949.) Please see Global Response 20 for a more detailed discussion regarding Recirculation.

0015-19

Commenter requests verification regarding the number of intersections that will operate below acceptable LOS under Year 2035 Intersection Operations. The Draft EIR inadvertently referenced a draft version of the Traffic Study. (See Draft Traffic Study, pp. 42-45.) As reflected in the Final Traffic Study, there will be 15 intersections that will operate below acceptable LOS under Year 2035 Intersection Operations. (See Traffic Study, pp. 42-45.)

The Final EIR will be revised to reflect this change. This clarification does not change any of the analyses or conclusions in the Traffic Study or the EIR. (See CEQA Guidelines § 15088.5, subds. (a)-(b); *Laurel Heights, supra,* 6 Cal.4th at p. 1129; *CBD, supra,* Cal.App.4th at p. 949.) Please see Global Response 20 for a more detailed discussion regarding Recirculation.

0015-20

Commenter notes that Intersection #112 on Table 4.16-18 in the DEIR does not correlate with Table 11 of the Traffic Study.

As described in response 15-12, the Draft EIR inadvertently cited to a draft version of the Traffic Study, which included a prior version of Table 11 that mistakenly included intersection #112. (See Draft Traffic Study, p. 80.) As reflected in the final Traffic Study, intersection #112 is not identified as an intersection that will require the project to contribute to improvements. (See Traffic Study, p. 80.)

The Final EIR will be revised to reflect this change. This clarification does not change any of the analyses or conclusions in the Traffic Study or the EIR. (See CEQA Guidelines § 15088.5, subds. (a)-(b); *Laurel Heights, supra,* 6 Cal.4th at p. 1129; *CBD, supra,* Cal.App.4th at p. 949.) Please see Global Response 20 for a more detailed discussion regarding Recirculation.

Section 7.2.4 of the EIR, response to comment 0044-241 *is revised as follows:*

24<u>1</u>4a [~~¶~~<u>paragraph</u> starting "The Project is located <u>…</u>~~…~~"]

This comment is noted for the record.

24<u>1</u>4b [~~¶~~<u>paragraph</u> starting "The oil and gas industry <u>…</u>~~…~~"]

Portions of Kern County are classified as severe non-attainment of the federal primary and secondary ambient ozone standards, which are set at the same level. The primary standard is set at a level that protects public health and the secondary standard is set at a level to protect public welfare, which includes adverse effects on vegetation. The cited technical paper by Wilkinson et al.[1] sites studies that explore how high levels of ozone may adversely affect crops. The basis for the current secondary ozone standard, as explained in the ozone criteria document,[2] includes a vast body of research. The ozone standards have been proposed by the United States Environmental Protection Agency and will likely be set at even lower levels than the existing standards. Areas that are not in attainment with these standards are required to develop USEPA-approved plans to improve air quality and continue to reduce airborne concentrations of ozone unit compliance with the standards are achieved. Once this occurs, because the secondary ozone standard is protective of vegetation, there would be no detrimental impacts on crops due to ozone exposure.

The San Joaquin Valley Air Pollution Control District has adopted ozone plans[3] as required by federal requirements to demonstrate how the SJVAPCD will attain the national ambient air quality standards for ozone. These ozone plans indicate that high ozone levels (*i.e.*, above the standards) that are generated in the Valley are the result of precursor (VOC and NOx) emissions transported eastward from the San Francisco Bay Area during the day, as well as emissions from sources within the Valley. Thus, the plans to reduce ozone are required to address transported as well as local emission sources. The SJVAPCD and the California Air Resources Board have developed extensive plans to control and reduce emissions of precursors from both stationary and mobile sources. Oil and gas development in Kern County is subject to these requirements and, as such, will not be allowed to materially degrade ozone air quality or stall the trend for continual improvement. Please also see GR Air-1. Please also see the responses to the appendices attached to this comment letter for responses to specific attachments.

24<u>1</u>4c [~~¶~~ <u>paragraph</u> starting "Given the existing <u>…</u>~~…~~"] As explained in the DEIR, MMs 4.3-1–4.3-8 will reduce impacts to less than significant and will

ensure that there is a no net increase of criteria air pollutant emissions. Please also see GR Air-1 and GR-16.

24<u>1</u>4d [~~¶~~<u>paragraph</u> starting "For example, the DEIR's primary air quality <u>…</u>~~…~~"]

Mitigation measures should not be viewed in isolation. MM 4.3-1 is one of a *package* of air quality mitigation measures that, collectively, reduce the Project's air quality impacts to a level less than significant. Please also see GR Air-1, GR-16 and GR-22.

24<u>1</u>4e [~~¶~~<u>paragraph</u> starting "The DEIR's other air quality <u>…</u>~~…~~"]

Please see GR Air-1. GR Air-3, and GR-16. The mitigation measures in the DEIR do not delegate to the applicant the responsibility to enforce mitigation. All of the mitigation measures are measurable and enforceable by the County and in some instance by the SJVAPCD.

24<u>1</u>4f [~~¶~~ <u>paragraph</u> starting "At the same time <u>…</u>~~…~~"]

Commenter suggests that Alternative 5, the Low-Emission Enhanced Oil Recovery (EOR) Alternative, should be included as mitigation. Such mitigation is infeasible within the meaning of CEQA Guidelines § 15364.

Under Alternative 5 all new and replacement steam generators for thermal EOR activities would be required to install low-emission steam generation technology. However, low-emission steam generation technologies are still in the demonstration and prototype phase. ClearSign Duplex (CSD) technology, which is referenced as a possible technology in Alternative 5, involves ceramic tile and burner modification. One operator (Aera) is conducting pilot testing of CSD. At least one other operator (Chevron) is considering pilot testing low-emission steam generation technologies. All technologies currently under consideration require additional testing and validation in actual operating conditions and environments before they can be considered field-proven. Long-term effectiveness and commercial viability of either technology still remain to be determined, and no company has deployed either technology to date. Furthermore, because the technologies are still in development, the cost of installing the equipment is high compared to the resulting emissions decreases. As such, the technology is not yet readily available on a commercial scale for implementation in oil and gas production in Kern County. The commenter has not provided any evidence suggesting that low-emission steam generation technology is economically or technologically feasible at this time. For these reasons, a finding of infeasibility is appropriate (CEQA Guidelines § 15126.6(f)(1)).

The technological infeasibility of Alternative 5 is further demonstrated by the current Best Available Control Technology (BACT) Guideline for oilfield steam generators in the San Joaquin Valley Air Pollution Control District (SJVAPCD). The federal Clean Air Act requires implementation of BACT, defined as as an emission limitation that the relevant permitting entity "determines is achievable." 42 USC § 7479. Similarly, the SJVAPCD defines BACT as the most stringent emission limitation or control technique

(1) achieved in practice; (2) contained in any State Implementation Plan, if presently achievable; (3) contained in an applicable New Source Performance Standard; (4) "Any other emission limitation or control technique, including process and equipment changes of basic or control equipment, found … to be cost effective and technologically feasible …" Rule 2201, Section 3.10. The SJVAPCD BACT guideline was last updated in March of 2014 and currently requires 6 ppm NOx at 3% O2 for steam generators that operate at 85 MMBtu/hr; and 7 ppm NOx at 3% O2 for steam generators that operate at less than 85 MMBtu/hr.[4] By comparison, the low-emission steam generation technology contemplated by Alternative 5 would be expected to achieve rates comparable to or lower than 5 ppm NOx at 3% O2 for steam generators operating at 55 MMBtu/hr. The fact that the rates in the current SJVAPCD BACT guideline are higher than what is contemplated by Alternative 5 further supports the conclusion that the technology required by Alternative 5 has not yet been achieved in practice, has not been shown to be presently achievable and is not technologically feasible. Alternative 5 was therefore properly rejected as an alternative and does not constitute feasible mitigation. Moreover, at such time as the SJVAPCD determines that low-emission steam generation technology has become feasible, it would be expected to update its BACT guidelines accordingly.

24<u>1</u>4g [~~¶~~<u>paragraph</u> starting "Despite the patent <u>…</u>~~…~~"]

The comment is a general conclusion and it is noted for the record. Please see GR Air-1.

[1] Exhibit AQ 4 to commenter's letter.

[2]Air Quality Criteria for Ozone and Related Photochemical Oxidants Volume I, (EPA 600/R-05/004aF) Section 9 ENVIRONMENTAL

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[3] http://www.valleyair.org/Air_Quality_Plans/docs/2014-RACT-SIP.PDF;

http://www.valleyair.org/Air_Quality_Plans/OzoneOneHourPlan2013/AdoptedPlan.pdf;

http://www.valleyair.org/Air_Quality_Plans/docs/AQ_Ozone_2007_Adopted/2007_8HourOzone_CompletePlan.pdf.

[4] http://www.valleyair.org/busind/pto/bact/bactLoader.htm.

Section 7.2.4 of the EIR, response to comment 0045-23 *is revised as follows:*

Please see GR Air-3, GR Air-6 and GR Air-7, which explain the sufficiency of the EIR's Health Risk Assessments. The modeling in the HRA analysis evaluates receptor locations, which include residences, schools, hospitals, day care facilities, senior living facilities and the like. The HRA model is set up to assume that the person(s) exposed are those with higher susceptibility to toxic air pollutants, but the model (which is consistent with the most recent OEHHA and CARB guidance) does not require any information about what groups those individuals may be in.

Section 7.2.4 of the EIR, response to comment 0045-24 *is revised as follows:*

Please see GR Air-6 and Air-10.

Section 7.2.4 of the EIR, response to comment 0045-25 *is revised as follows:*

Please see GR Air-6 and Air-10.

Section 7.2.4 of the EIR, response to comment 0045-26 *is revised as follows:*

Please see GR Air-6 and Air-10.

Section 7.2.4 of the EIR, response to comment 0045-31 *is revised as follows:*

Please see GR Air-10. In addition, MM 4.3-5 has been revised to address this concern, as described in Section 7.1.4.

Section 7.2.4 of the EIR, response to comment 0045-32 *is revised as follows:*

Please see GR Air-3, GR Air-6, and GR Air-7.

Section 7.2.4 of the EIR, response to comment 0045-103, *is revised as follows:*

It should also be noted that, as part of implementation of the Sustainable Groundwater Management Act (SGMA), local groundwater management authorities are being established to further define groundwater resources; establish sustainable groundwater use rates; and allocate groundwater among users. See GR Water-3 regarding the SGMA. The SGMA will play a significant role in future supply estimates. The County is required to participate in the Kern groundwater sustainability effort underway, and the basin has now been designated by the Department of Water Resources as being in critical overdraft. SGMA will require that agricultural, municipal, and industrial activities account for current and future uses of water and create sustainable plans for managing the resource. Pursuant to California Water Code section 10933(ba)(8), this effort will also take into account ~~“~~"adverse impacts on local habitat and local streamflows.~~”~~" While the EIR finds that oil and gas activity uses very little groundwater compared to other uses, significant impacts to groundwater supply are identified and mitigation measures are proposed. MM 4.17-2 and 4.17-3 require the Applicant to work with the County to increase the re-use of produced water from oil and gas activities. These measures are intended to help reduce the industry~~’~~'s dependence on groundwater, which will contribute to alleviating stress on this limited resource in the future. These measures will also insure that impacts to habitat and species are considered as part of any groundwater planning exercise.

Section 7.2.4 of the FEIR, response to comment 0046-010, *is supplemented to add the following additional text at the end of the existing response:*

Additional clarification of the analysis of potential cumulative air quality impacts on sensitive receptors is provided in Appendix M-2 to Volume 5, Cumulative Health Risk Assessment.

Section 7.2.4 of the FEIR, response to comment 0047-056, *is supplemented to add the following additional text at the end of the existing response:*

Additional evidence supporting the WSA's assumption that agricultural water demand is not expected to increase is found in the California Water Plan Update prepared by the Department of Water Resources. The Project Area is located within the Tulare Lake Hydrologic Region as defined by the DWR, see Draft EIR p. 4.9-2. The California Water Plan Update for 2013 projects that, under all growth scenarios, agricultural water demand will decrease from 2006 to 2050 in the Tulare Lake Region. Depending on the growth scenario, the 2013 Water Update estimates a reduction in agricultural demand in the Tulare Lake Region of between 225,000 and 1,397,000 acre-feet per year (comparing the historical observed average from 1998 to 2005 to the estimated future average for 2043 to 2050). California Department of Water Resources, California Water Plan Update 2013, Volume 2 Regional Reports: Tulare Lake Hydrologic Region, at TL-110 (2013), http://www.waterplan.water.ca.gov/docs/cwpu2013/Final/Vol2_TulareLakeRR.pdf. In establishing these estimates, the 2013 Update evaluated nine growth scenarios, each including three alternative population growth projections and three alternative urban land development densities. Regional Report: Tulare Hydrologic Region at TL-108. The primary causes of the decrease projected in the 2013 Update estimate are reduction in irrigated lands caused by urbanization and increased water conservation compared to the historical average. Regional Report: Tulare Hydrologic Region at TL-109. For purposes of analyzing the consequences of oil and gas industry demand, the WSA and Draft EIR conservatively assumed that agricultural demand would remain constant and no additional supply would become available, notwithstanding evidence of the projected decrease in agricultural demand.

Section 7.2.4 of the EIR, response to comment 0047-85 *is revised as follows:*

Please see GR-Air-8 regarding emissions from WST and the CCST report's conclusions on well stimulation air emissions and GR-Air-9 regarding the CCST report's conclusions on air emissions.

Section 7.2.4 of the EIR, response to comment 0047-86 *is revised as follows:*

Please see GR-12 regarding the CCST report generally, GR-13 regarding the CCST report's conclusions on well stimulation technology, GR-15 regarding the CCST report's conclusions on hydraulic stimulation, GR-Geo-1 regarding the CCST report's conclusions on induced seismicity, please see ~~GR-Air-8 regarding the CCST report's conclusions on well stimulation air emissions, and~~ GR-Air-9 regarding the CCST report's conclusions on air emissions.

Section 7.2.4 of the EIR, response to comment 0048-37 *is revised as follows:*

Mitigation Measure 4.3-5 does not allow the County to waive setback distances to sensitive receptors. MM 4.3-5(c) has been modified in the Final EIR as follows:

"c. If the above setbacks cannot be met, and for existing wells, the Applicant shall provide a site-specific or other risk assessment to the SJVAPCD, which may include implementation of one or more of the following risk minimization measures, or such measures that are demonstrated by the Applicant to the SJVAPCD, to achieve a level of risk less than the threshold risk level, and shall provide confirmation from the SJVAPCD that the activity that is the subject of the application will not exceed the risk threshold:"

This will ensure that sensitive receptors are not exposed to emissions above~~below~~ the risk threshold. Please also see GR-1 and GR Air-10.

Section 7.2.4 of the EIR, responses to comments 0048-40 through 0048-43 *are revised as follows:*

This introductory comment is noted. Please see Responses 00488~~2~~-54 to 00488~~2~~-68, below.

Section 7.2.4 of the EIR, response to comment 0048-69 *is revised as follows:*

Please see GR Air-1. Please also see response to comment 6~~7~~8, above.

Section 7.2.4 of the EIR, response to comment 0048-91 *is revised as follows:*

Please see GR Air-1 and GR-16. The commenter's citation to the DEIR is noted for the record.

Section 7.2.4 of the EIR, response to comment 0048-102 *is revised as follows:*

Please see GR Air-1, GR Air-2 and GR-16. Please also see response 0048-109. The commenter's opinion regarding the sufficiency of the mitigation is noted for the record.

Section 7.2.4 of the FEIR, response to comment 0048-141, *is supplemented to add the following additional text at the end of the existing response:*

Information on the bioaccumulation potential of well stimulation chemicals will be required in the information provided under Mitigation Measure 4.18-16. Bioaccumulation is typically assessed as part of the ecological information reported in Section 12 of a Safety Data Sheet (SDS), based on an experimentally or computationally-derived bioconcentration factor or octanol-water partitioning coefficient. SDSs are prepared in accordance with the United Nations' Globally Harmonized System of Classification and Labeling of Chemicals (GHS). The GHS framework relies on aquatic toxicity, degradation, and bioaccumulation data to identify and classify hazards to the aquatic environment, in order to determine the hazard classifications reported on the product SDSs. As such, bioaccumulation (as well as

degradation, and aquatic toxicity) is evaluated as part of hazard identification and reported on the SDS.

Toxicological endpoints that may result from endocrine activity, *e.g.*, reproductive and developmental toxicity, are also evaluated as part of the hazard assessment undertaken during the development of SDSs. Endocrine disruption is not a toxicological endpoint *per se* but a descriptor for a physiological mechanism that may lead to adverse health effects, such as reproductive toxicity and impaired development, which are evaluated under the GHS framework and would be reported on the SDS. Such data would be among the information provided under Mitigation Measure 4.18-16. However, the current state of the science does not support a definitive assay to directly detect endocrine disrupting properties of chemicals. Potential endocrine disruptive activity of chemical compounds or products is not considered in the GHS, separate from reproductive or developmental toxicity, due to the current lack of a regulatory framework for endocrine disruptors. Efforts are underway in the United States and the European Union to define a framework for regulating endocrine disruptors. However, currently there are only lists of putative endocrine disruptors, such as the EU list of potential endocrine disruptors, available at http://ec.europa.eu/environment/chemicals/endocrine/strategy/substances_en.htm#priority_list. None of the WST chemicals listed in EIR Table 4.9-23 are included on the EU priority list of endocrine disruptors as showing evidence of endocrine disrupting activity under either Category 1 (evidence of endocrine disrupting activity in at least one species using intact animals) or Category 2 (at least some *in vitro* evidence of biological activity related to endocrine disruption) on the EU list of potential endocrine disruptors).

Moreover, even if a chemical is shown to have the potential to bioaccumulate or interact with the endocrine system in laboratory assays, this does not necessarily constitute a significant environmental risk. As reported in the DEIR, "[t]here have been no confirmed impacts to groundwater in the Project Area related to well stimulation" (p. 4.9-75). There have been no spills of WST fluids reported in Kern County in the last five years (DEIR, p. 4.8-20), or throughout in California. See DOGGR's Final EIR, Analysis of Oil and Gas Well Stimulation Treatments in California, pp. 10.15-36 – 10.15-37). The commenter submitted a report prepared by UCLA Institute of the Environment and Sustainability, An Analysis of Hazardous Materials Spills with a Focus on Oil and Gas Production. However, this study does not identify any spills involving WST fluids. Given the low concentrations of chemicals in WST fluid and a lack of complete and/or significant exposure pathways, the evidence supports the conclusion that potential risks to human health and the environment for endpoints related to endocrine effects are insignificant.

12.5 Recirculation Is Not Warranted

CEQA requires recirculation of an EIR only when "new significant information is added to the EIR" after the EIR is circulated for public review but before the EIR is certified. CEQA Guidelines § 15088.5 (a); see also CEQA § 21092.1. "Significant new information" can include the following disclosures : (1) a new significant environmental impact that would result from the project or from a new proposed mitigation measure; (2) a substantial increase in the severity of an environmental impact unless mitigation measures are adopted that reduce the impact to a level of insignificance; (3) a feasible project alternative or mitigation measure considerably different from others previously analyzed would clearly lessen the project's environmental impacts, but the project's proponents decline to adopt it; or (4) when a draft EIR is so fundamentally and basically inadequate and conclusory in nature that meaningful public review and comment were precluded. CEQA Guidelines § 15088.5(a).

However, "new information" added to the EIR is not "significant unless the EIR is changed in a way that deprives the public of a meaningful opportunity to comment upon a substantial environmental effect of the project or a feasible way to mitigate or avoid such an effect (including a feasible project alternative) that the project's proponents have declined to implement." CEQA Guidelines § 15088.5 (a); *Laurel Heights Improvement Assn. of San Francisco, Inc. v. Regents of the Univ. of Cal.* (1993) 6 Cal.4th 1112, 1129; *Center for Biological Diversity v. Cal. Dept. of Forestry and Fire Protection* (2014) 232 Cal.App.4th 931, 949. When the Legislature drafted the requirements for recirculating an EIR, the Legislature intended to balance the goal of promoting meaningful public participation with the goal of protecting against endless rounds of revisions and recirculation. *Laurel Heights Improvement Assn. of San Francisco, Inc. v. Regents of the Univ. of Cal.* (1993) 6 Cal.4th 1112, 1132. "Recirculation was intended to be an exception, rather than the general rule." *Id.*

Recirculation is <u>not</u> required when new information is added that "merely clarifies or amplifies or makes insignificant modifications in an adequate EIR." CEQA Guidelines § 15088.5(b). In response to comments received on the DEIR, this EIR includes additional information to clarify information or make minor modifications to the EIR. In Section 12.2, this *Chapter 12*, consolidates clarifications, amplifications, and insignificant modifications to the DEIR Volumes 1 and 2 that are described in *Chapter 7, Responses to Comments* (Volume 3 of the Final EIR). In Section 12.3, this *Chapter 12* also consolidates all responses to written comments received by the County after the DEIR comment period, including responses to comments received following the Planning Commission's October 5, 2015 hearing on the Project. In Section 12.4, this *Chapter 12* consolidates all staff-initiated clarifications, amplifications, and insignificant modifications to EIR Volumes 1, 2, and 3 that were made following publication of *Chapter 7*, which include, but are not limited to, new *Appendix M-2, Cumulative Health Risk Assessment*, and *Appendix M-3, Draft Emissions Reduction Agreement*. While these additions to the EIR provide valuable information by which to evaluate the environmental impacts of the Project, and include clarification and insignificant modifications to the EIR, they do not trigger recirculation under the standard articulated in the Guidelines or in *Laurel Heights.*

This determination is consistent with a line of cases in which courts have considered whether certain types of new information warrant recirculation and determined they did not. *Silverado Modjeska Recreation & Park Dist. v County of Orange* (2011) 197 Cal.App. 4th 282 (holding that an EIR need

not be recirculated because of new information about the proximity of sensitive toad larvae to the project site when the earlier analysis had assumed that the toad was present near the project); *Clover Valley Found. V. City of Rocklin* (2011) 197 Cal.App. 4th 200 (finding that specific information added to the final EIR about cultural resources sites added narrative detail about the resources' characteristics but did not add new substantive information affecting the EIR's findings relating to significant impacts); *Marin Mun. Water Dist. v KG Land Cal. Corp.* (1991) 235 Cal.App.3d 1652 (EIR on district's moratorium on water hookups did not need to be recirculated because of new information that it would be extended by additional 5 years); *Sierra Club v Gilroy City Council* (1990) 222 Cal.App. 3d 30 (preparation of supplemental EIR was unnecessary in light of incorporation of study and mitigation measures concerning newly discovered species on project site in final EIR, which was circulated for 2 weeks for public and agency review), disapproved on other grounds by *Western States Petroleum Ass'n v Superior Court* (1995) 9 Cal.4th 559.

Like the examples cited above, the information added to the EIR by this *Chapter 12* does not reveal any potentially new significant impacts which had not been previously analyzed. Similarly, information in the EIR demonstrates that the new and revised mitigation measures are feasible and will adequately mitigate impacts discussed in the EIR (see also section 7.1.4 and discussion related to the revised mitigation measures in the respective Global Responses). Recirculation is not required here.

12.6 List of References

12.6.1 References in Global Responses

AWS Truepower, LLC. 2010. Advanced Characterization of Wind Resources in Selected Focus Areas of California. California Energy Commission, Dec. 2010.

Bohlen, S., State Oil and Gas Supervisor, California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR) & Bishop, J., Chief Deputy Director, State Water Resources Control Board (SWRCB) Letter to Michael Montgomery, U.S. EPA, Region IX. 2015. DOGGR & SWRCB, July 15, 2015. Available at: ftp://ftp.consrv.ca.gov/pub/oil/UIC%20Files/July%2015%202015%20US%20EPA%20Deliverable.pdf.

Bohlen, S., State Oil and Gas Supervisor, California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR) & Bishop, J., Chief Deputy Director, State Water Resources Control Board (SWRCB) Letter to Michael Montgomery, U.S. EPA, Region IX. 2015. DOGGR & SWRCB, July 31, 2015. Available at: ftp://ftp.consrv.ca.gov/pub/oil/UIC%20Files/20150731%20Joint%20Letter%20to%20US%20EPA%20(Montgomery)%20re%20Cat%202%20wells.pdf.

California Air Pollution Control Officers Association (CAPCOA). 2008. CEQA & Climate Change: Evaluating and Addressing Greenhouse Gas Emissions from Projects Subject to the California Environmental Quality Act. CAPCOA, Jan. 2008.

California Air Resources Board (CARB). 2014. Clearinghouse of Non-CO2 Greenhouse Gas Emission Control Technologies. CARB, Last Reviewed Oct. 30, 2014. Available at: http://www.arb.ca.gov/cc/non-co2-clearinghouse/non-co2-clearinghouse.htm.

California Air Resources Board (CARB). 2015. Article 3: Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities. CARB Proposed Regulation Order, Apr. 22, 2015. Available at: http://www.arb.ca.gov/cc/oil-gas/meetings/Draft_Regulatory_Language_4-22-15.pdf.

California Council on Science and Technology (CCST). 2015. An Independent Scientific Assessment of Well Stimulation in California, Vol. 1: Well Stimulation Technologies and their Past, Present, and Potential Future Use in California. Jan. 2015.

California Council on Science and Technology (CCST). 2015. An Independent Scientific Assessment of Well Stimulation in California, Vol. 2: Potential Environmental Impacts of Hydraulic Fracturing and Acid Stimulations. Jul. 2015.

California Council on Science and Technology (CCST). 2015. An Independent Scientific Assessment of Well Stimulation in California, Vol. 3: Case Studies of Hydraulic Fracturing and Acid Stimulations in Select Regions: O-shore, Monterey Formation, Los Angeles Basin, and San Joaquin Basin. Jul. 2015.

California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR). 2015. SB 1281 Water Report Summary Division of Oil, Gas, and Geothermal Resources, First Quarter 2015. DOGGR, Aug. 12, 2015. Available at: ftp://ftp.consrv.ca.gov/pub/oil/SB1281/2015%20Q1/SB1281_First_Quarter_2015_Summary_Report.pdf.

California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR). 2015. Quarterly Other Water Allocation, First Quarter 2015. Available at: ftp://ftp.consrv.ca.gov/pub/oil/SB1281/2015%20Q1/Database%20Files/.

California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR). 2015. Quarterly Water Injection, First Quarter 2015. Available at: ftp://ftp.consrv.ca.gov/pub/oil/SB1281/2015%20Q1/Database%20Files/.

California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR). 2015. Quarterly Water Production, First Quarter 2015. Available at: ftp://ftp.consrv.ca.gov/pub/oil/SB1281/2015%20Q1/Database%20Files/.

California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR). 2015. Quarterly Well Allocation List, First Quarter 2015. Available at: ftp://ftp.consrv.ca.gov/pub/oil/SB1281/2015%20Q1/Database%20Files/.

California Department of Water Resources (DWR). 2015. Groundwater Sustainability Plan Regulations. DWR, last updated Sep. 28, 2015. Available at: http://www.water.ca.gov/groundwater/sgm/gsp.cfm.

California Energy Commission (CEC). 2015. California Wind Resource Potential (Map). CEC System Assessment and Facilities Siting Division, Cartography Unit. Available at: http://www.energy.ca.gov/maps/renewable/wind/WindResource_Potential.pdf

California Energy Commission (CEC). 2015. Electric Generation Capacity & Energy. CEC Electricity Analysis Office, Aug. 2015. Available at: http://energyalmanac.ca.gov/electricity/electric_generation_capacity.html

California Energy Commission (CEC). 2015. Operational Wind Projects – 2015 (Map). CEC Siting, Transmission and Environmental Protection Division, Cartography Unit. Available at: http://www.energy.ca.gov/maps/renewable/wind/WindResourceArea_CA_Statewide.pdf

California Energy Commission (CEC). 2015. Tracking Progress – Renewable Energy, CEC Sep. 2015. Available at: http://www.energy.ca.gov/renewables/tracking_progress/documents/renewable.pdf

California Legislature. 2015. Joint Informational Hearing of the Senate Natural Resources and Water And Assembly Natural Resources Committees- Hydraulic Fracturing and Well Stimulation Treatments in California-What the Science Says. 2015. California Legislature, Aug. 25, 2015, 9:00 A.M. Available at: http://calchannel.granicus.com/MediaPlayer.php?view_id=7&clip_id=3148.

Carbon Limits AS. 2013. Black Carbon and Methane Emissions from Oil and Gas Activities --- Overcoming Emission Reduction Barriers. Prepared for Ministry of Climate and Environment of Norway and Ministry of Foreign Affairs in Norway. Jan. 2013.

Cart, J. 2015. Central Valley's Growing Concern: Crops Raised With Oil Field Water. L.A. Times, May 2, 2015. Available at: http://www.latimes.com/local/california/lamedroughtoilwater20150503story.html.

Cart, J. 2015. Potentially Harmful Chemicals Found in Oil Field Water Used for Irrigation. L.A. Times, Jun. 20, 2015. Available at: http://www.latimes.com/local/california/lameoilwatertests20150620story.html.

Cart, J. 2015. Recycled Oil Field Wastewater Is Clean, Chevron Test Results Show. L.A. Times, Jul. 1, 2015. Available at: http://www.latimes.com/local/california/lame0702chevronwater20150702story.html.

Central Valley Regional Water Quality Control Board (CVRWQCB). 2014. Oil Fields — Disposal Ponds. CVRWQCB, Last Updated Sep. 9, 2015. Available at: http://www.swrcb.ca.gov/rwqcb5/water_issues/oil_fields/information/disposal_ponds/index.shtml.

Central Valley Regional Water Quality Control Board (CVRWQCB). 2014. Oilfield Produced Water Sumps -- Central Valley Water Work Plan. CVRWQCB, Nov. 14, 2014. Available at: http://www.swrcb.ca.gov/rwqcb5/water_issues/oil_fields/information/disposal_ponds/2014_1114_of_sumps_r5wkpln.pdf.

Central Valley Regional Water Quality Control Board (CVRWQCB). 2015. Administrative Civil Liability Order R5-2015-0096, In the Matter of Breitburn Operating LP. CVRWQCB, Jul. 31, 2015.

Central Valley Regional Water Quality Control Board (CVRWQCB). 2015. Oil Field Produced Water Pond Status Report #3. CVRWQCB, Apr. 4 2015. Available at: http://www.swrcb.ca.gov/rwqcb5/water_issues/oil_fields/information/disposal_ponds/pond_status_rpt3_2015_0404.pdf.

Central Valley Regional Water Quality Control Board (CVRWQCB). 2015. Cleanup and Abatement Order No. R5-2015-0066 for E&B Natural Resources Management Gov't Lease, Poso Creek Oil Field, Kern County. CVRWQCB, Jun. 4, 2015.

Central Valley Regional Water Quality Control Board (CVRWQCB). 2015. Amec Foster Wheeler Environment & Infrastructure, Inc., Technical Report: Reclaimed Water Impoundments Sampling, Cawelo Water District Ponds, Kern River Oil Field, Kern County, California, June 15, 2015. Available at: http://www.waterboards.ca.gov/centralvalley/water_issues/oil_fields/information/disposal_ponds/chevron/2015_0615_com_chevron_cawello.pdf.

Central Valley Regional Water Quality Control Board (CVRWQCB). 2015. Christine Zimmerman, Regulatory Implementation & Compliance, Valley Water Management Company, Letter and attachment to Ronald Holcomb, CVRWQCB. June 15, 2015. Available at: http://www.swrcb.ca.gov/centralvalley/water_issues/oil_fields/information/disposal_ponds/valleywater_mgmtco/2015_0616_com_vwmc.pdf.

Central Valley Regional Water Quality Control Board (CVRWQCB). 2015. Amec Foster Wheeler Environment & Infrastructure, Inc., Response To Regional Water Quality Control Board Data Request, Reclaimed Water Impoundments Sampling, Cawelo Water District Ponds Kern River Oil Field, Kern County, California, June 26, 2015. Available at: http://www.waterboards.ca.gov/centralvalley/water_issues/oil_fields/information/disposal_ponds/chevron/2015_0626_com_chevron_add.pdf.

Central Valley Regional Water Quality Control Board (CVRWQCB). 2015. Juan Magana, Project Manager, Zalco Laboratories, Letter and Attachment to Christine Zimmerman, Regulatory Implementation & Compliance, Valley Water Management Company. July 1, 2015. Available at: http://www.swrcb.ca.gov/centralvalley/water_issues/oil_fields/information/disposal_ponds/valleywater_mgmtco/2015_0701_com_vwmc_add.pdf.

Central Valley Regional Water Quality Control Board (CVRWQCB). 2015. Lab Data dated July 2, 2015. Available at: http://www.waterboards.ca.gov/centralvalley/water_issues/oil_fields/information/disposal_ponds/valleywater_mgmtco/2015_0616_com_vwmc_lab_data.pdf.

Central Valley Regional Water Quality Control Board (CVRWQCB). 2015. Lab Data dated July 2, 2015. Available at: http://www.waterboards.ca.gov/centralvalley/water_issues/oil_fields/information/disposal_ponds/valleywater_mgmtco/2015_0616_com_vwmc_lab_data1.pdf.

Central Valley Regional Water Quality Control Board (CVRWQCB). 2015. Lab Data dated July 2, 2015. Available at: http://www.waterboards.ca.gov/centralvalley/water_issues/oil_fields/information/disposal_ponds/valleywater_mgmtco/2015_0701_com_vwmc_lab_data2.pdf.

Central Valley Regional Water Quality Control Board (CVRWQCB). 2015. Lab Data dated July 2, 2015. Available at: http://www.waterboards.ca.gov/centralvalley/water_issues/oil_fields/information/disposal_ponds/valleywater_mgmtco/2015_0701_com_vwmc_lab_data3.pdf.

Central Valley Regional Water Quality Control Board (CVRWQCB). 2015. Order No. R5-2015-0093 for Valley Water Management Company Race Track Hill Facility and Fee 34 Facility, Edison, Kern County. CVRWQCB, July 30, 2015.

City of Riverside v. City of Los Angeles, No. G043651, 2011 WL 3527504 (Cal. Ct. App. 4th Dist., Aug. 11, 2011) (unpublished).

Ctr. for Biological Diversity v. Cal. Dept. of Fish and Game, No. BS131347 (Cal. Sup. Ct. Los Angeles Cty., Oct. 15, 2012).

Ctr. for Biological Diversity v. Dept. of Fish and Wildlife, No. B245131 (Cal. Ct. App. 2d Dist., Mar. 20, 2014) (including unpublished portions of the opinion).

El-Houjeiri, H., Vafi, K., Duffy, J., McNally, S., & Brandt, A. 2015. Oil Production Greenhouse Gas Emissions Estimator, OPGEE v1.1 Draft E User Guide and Technical Documentation. California Environmental Protection Agency, California Air Resources Board, Apr. 2015.

Flack, M, AECOM, Memo to Suzanne Noble, WSPA. 2015.: Infeasibility of Alternative to Ban Drilling in Agricultural Land. AECOM, Sep. 18, 2015.

Frick, T & Taylor, R. 1962. Petroleum Production Handbook, Vol. 1. Society of Petroleum Engineers of AIME, Jan. 1962.

Göbel, T. 2015. A Comparison of Seismicity Rates and Fluid-Injection Operations in Oklahoma and California: Implications for Crustal Stresses. The Leading Edge, Jun. 2015.

Haukson, E., Göbel, T., Ampuero, J., & Cochran, E. 2015. A Century of Oil-Field Operations and Earthquakes in the Greater Los Angeles Basin, Southern California. The Leading Edge, Jun. 2015.

Jones, K., Welborn, J., & Russell, C. 2013. Split Estates and Surface Access Issues. Landman's Legal Handbook, Ch. 9. Rocky Mt. Min. L. Fdn., 5th ed.

Kern Economic Development Foundation (KEDF). 2015. The Economic Contribution of the Oil and Gas Industry in Kern County.

National Fire Protection Association (NFPA). 2013. NFPA 70, National Electrical Code. 2014 ed.

Natural Resources Agency. 2009. Adopted and Transmitted Text of Senate Bill 97, CEQA Guidelines Amendments. Dec. 30, 2009.

Norwood, E.R. 2007. Oil & Gas Litigation: What Usually Goes Wrong and What Can Be Done to Prevent It. Oxy Technology Conference, Liberty, Texas, May 8, 2007.

Ong, S., Campbell, C., Denholm, P., Margolis, R., & Heath, G. 2013. Land-Use Requirements for Solar Power Plants in the United States. National Renewable Energy Laboratory, Jun. 2013.

Pacific Gas and Electric Company (PG&E). 2003. Service Extensions. Electric Rule No. 16, Apr. 2013.

Public Utilities Commission of the State of California, Rules for Overhead Electric Line Construction. General Order No. 95, Jan. 2015.

San Joaquin Valley Air Pollution Control District (SJVAPCD). 2009. District Policy, Addressing GHG Emission Impacts for Stationary Source Projects Under CEQA When Serving as the Lead Agency. SJVAPCD Dec. 17, 2009. Available at: https://www.valleyair.org/Programs/CCAP/12-17-09/2%20CCAP%20-%20FINAL%20District%20Policy%20CEQA%20GHG%20-%20Dec%2017%202009.pdf

San Joaquin Valley Air Pollution Control District (SJVAPCD). 2009. Guidance for Valley Land-use Agencies in Addressing GHG Emission Impacts for New Projects under CEQA. SJVAPCD Dec. 17, 2009. Available at: https://www.valleyair.org/Programs/CCAP/12-17-09/3%20CCAP%20-%20FINAL%20LU%20Guidance%20-%20Dec%2017%202009.pdf

San Joaquin Valley Air Pollution Control District (SJVAPCD). 2014. Best Available Control Technology (BACT) Guideline 1.2.1 F. Last Update Mar. 24, 2014. Available at: http://www.valleyair.org/busind/pto/bact/b_a_c_t/bact_guideline_details.asp?category_level1=1&category_level2=2&category_level3=1&last_update=3/24/2014

San Joaquin Valley Air Pollution Control District (SJVAPCD). 2015. Best Available Control Technology (BACT) Clearinghouse. Available at: http://www.valleyair.org/busind/pto/bact/bactLoader.htm

Schwan, D. 2015. Preemption Update: Local Attempts to Preempt State Regulation of Hydraulic Fracturing. American Bar Association, Environmental, Mass Torts & Products Liability Litigation Committees' Joint CLE Seminar, Snowmass Village, CO, Jan. 29-31, 2015.

State Water Resources Control Board (SWRCB). 2015. Model Criteria for Groundwater Monitoring in Areas of Oil and Gas Well Stimulation. SWRCB, Jul. 7, 2015.

United States Environmental Protection Agency (US EPA). 2004. US EPA's Program to Regulate the Placement of Waste Water and other Fluids Underground. US EPA, Jun. 2004. Available at: http://water.epa.gov/lawsregs/guidance/sdwa/upload/programregplaceunder.pdf.

United States Environmental Protection Agency (US EPA). 2012. Class II Wells - Oil and Gas Related Injection Wells (Class II). US EPA, last updated May 9, 2012. Available at: http://water.epa.gov/type/groundwater/uic/class2/.

United States Environmental Protection Agency (US EPA). 2015. Assessment of the Potential Impacts of Hydraulic Fracturing for Oil and Gas on Drinking Water Resources. US EPA External Review Draft, June 2015. Available at: http://alternativeenergy.procon.org/sourcefiles/epaassessment-impacts-hydraulic-fracturing-june-2015.PDF.

Watson, R. 2008. State Surface Owner Protection Laws: Tales of Preemption, Federalism, and a Changing West. Surface Use for Mineral Developments in the New West, Ch. 13A. Feb. 2008.

12.6.2 References in State Agency Responses

Alvarez, J. & Han, S. 2013. Current Overview of Cyclic Steam Injection Process. J. of Petroleum Sci. Research, Vol. 2(3) at p. 116. July 2013.

Bjurlin, C., Cypher B., Wingert, C., & Van Horn Job C. 2005. Urban Roads and the Endangered San Joaquin Kit Fox. California Department of Transportation, Jul. 10, 2005.

Bohlen, S., State Oil and Gas Supervisor, California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR) & Bishop, J., Chief Deputy Director, State Water Resources Control Board (SWRCB) Letter to Michael Montgomery, U.S. EPA, Region IX. 2015. DOGGR & SWRCB, Feb. 6, 2015. Available at: ftp://ftp.consrv.ca.gov/pub/oil/UIC%20Files/FINAL_Dual%20Letterhead_US%20EPA%20Letter.pdf.

California Council on Science and Technology (CCST). 2015. An Independent Scientific Assessment of Well Stimulation in California, Vol. 1: Well Stimulation Technologies and their Past, Present, and Potential Future Use in California. Jan. 2015.

California Council on Science and Technology (CCST). 2015. An Independent Scientific Assessment of Well Stimulation in California, Vol. 2: Potential Environmental Impacts of Hydraulic Fracturing and Acid Stimulations. Jul. 2015.

California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR). 2015. Oil, Gas & Geothermal – Injection Wells. DOGGR, Last accessed Oct. 19, 2015. Available at: http://www.conservation.ca.gov/dog/general_information/Pages/class_injection_wells.aspx.

Cypher, B., Phillips, S., & Kelly, P. 2013. Quantity and Distribution of Suitable Habitat for Endangered San Joaquin Kit Foxes: Conservation Implications. Canid Biology & Conservation 16(7) at 25. Available at: http://www.canids.org/CBC/16/san_joaquin_kit_fox_habitat_suitability.pdf.

Cypher, B. 2010. Kit Foxes (Vulpes macrotis). Urban Carnivores: Ecology, Conflict, and Conservation, at Ch. 9., p. 49. Gehrt. S., Riley, S., & Cypher, B. eds., Johns Hopkins Press, 2010.

Fiehler, C. & Cypher B. 2011. Ecosystem Analysis of Oilfields in Western Kern County, California. Prepared for the U.S. Bureau of Land Management, Bakersfield Field Office, Jan. 28, 2011.

Germano, D., Rathburn, G., & Saslaw, L. 2011. Effects of Grazing and Invasive Grasses on Desert Vertebrates in California. J. Wildlife Mgmt., 9999 at 1. Sep. 2011.

Kern County Planning and Community Development Department. 2015. DEIR Appendix U, Appendix U- Ecology and Environment, Inc., Kern County Drilling and Hydraulic Fracturing Comparison Memo. Kern County, June 10, 2015. Available at: http://psbweb.co.kern.ca.us/UtilityPages/Planning/EIRS/oil_gas/Appendices/Oil_Gas_DEIR_Vol2_Appendix_U.pdf.

United States Environmental Protection Agency (US EPA). 2014. Minimizing And Managing Potential Impacts Of Injection-Induced Seismicity From Class II Disposal Wells: Practical Approaches. US EPA, Nov. 12, 2014.

United States Fish and Wildlife Service (USFWS). 2010. San Joaquin Kit Fox (Vulpes macrotis mutica) 5-Year Review: Summary and Evaluation. USFWS, Sacramento Fish and Wildlife Office, Sacramento, California, Feb. 2010.

United States Fish and Wildlife Service (USFWS). 1998. Recovery Plan for Upland Species of the San Joaquin Valley, California. USFWS, Region 1, Portland, Oregon, Sep. 1998.

United States Fish and Wildlife Service (USFWS). 2010. Tipton Kangaroo Rat (Dipodomys nitratoides nitratoides) 5-Year Review: Summary and Evaluation. USFWS, Sacramento Fish and Wildlife Office, Sacramento, California, Feb. 2010.

Wynne, D. and Patel, M. 2015. Development of Kern County's Rose Oil Field. Search and Discovery Art. #20316, Jul. 20, 2015. Available at: http://www.searchanddiscovery.com/pdfz/documents/2015/20316wynne/ndx_wynne.pdf.html.

Zoellick, B., Harris, C., Kelly, B., O'Farrell, T., Kato, T., & Koopman, M. 2002. Movements and Home Ranges of San Joaquin Kit Foxes (Vulpes macrotis mutica) Relative to Oil-Field Development. W.N. Am. Naturalist, Vol. 62(2) at p.151. 2001.

12.6.3 References in Individual Responses

Bjurlin, C., Cypher B., Wingert, C., & Van Horn Job C. 2005. Urban Roads and the Endangered San Joaquin Kit Fox. California Department of Transportation, Jul. 10, 2005.

California Attorney General Opinion No. SO 76-32 Regulations on Drilling, Operation, Maintenance, Abandonment of Oil, Gas and Geothermal Wells, 59 Ops. Cal. Atty. Gen. 461 (Aug. 24, 1976).

California Council on Science and Technology (CCST). 2015. An Independent Scientific Assessment of Well Stimulation in California, Vol. 1: Well Stimulation Technologies and their Past, Present, and Potential Future Use in California. Jan. 2015.

California Council on Science and Technology (CCST). 2015. An Independent Scientific Assessment of Well Stimulation in California, Vol. 2: Potential Environmental Impacts of Hydraulic Fracturing and Acid Stimulations. Jul. 2015.

California Department of Toxic Substances Control (DTSC). 2013. Environmental Justice Review, The Kettleman Hills Facility, Chemical Waste Management, Inc. DTSC, Jun. 2013. Available at: https://www.dtsc.ca.gov/HazardousWaste/Projects/upload/Kettleman_EJReview_0613.pdf.

California Energy Commission (CEC). 2015. Docket No. 07-AFC-OGC, Carlsbad Energy Center Project Amendment, Final Staff Assessment. CEC, Feb. 17, 2015. Available at: http://docketpublic.energy.ca.gov/PublicDocuments/07-AFC-06C/TN203696_20150217T141737_CECP_Amendment_Final_Staff_Assessment.pdf.

California Energy Commission (CEC). 2015. Tracking Progress – Renewable Energy, CEC Sep. 2015. Available at: http://www.energy.ca.gov/renewables/tracking_progress/documents/renewable.pdf

California Environmental Protection Agency, Air Resources Board (CARB). 2005. Air Quality And Land Use Handbook: A Community Health Perspective. CARB, Apr. 2005. Available at: http://www.arb.ca.gov/ch/handbook.pdf.

Caryotakis, A., Davies, I., Hafiz, S., Niketen, J, Noakes, D., Wang, R., & Wu, A. 2015. An Analysis of Hazardous Materials Spills with a Focus on Oil and Gas Production- A 2015 Undergraduate Practicum Project for the UCLA Institute of the Environment and Sustainability. Prepared for the National Resources Defense Council, 2015.

Central Valley Regional Water Quality Control Board (CVRWQCB). 2015. Order No. R5-2015-0093 For Valley Water Management Company Race Track Hill Facility and Fee 34 Facility, Edison, Kern County. CVRWQCB, Jul. 30, 2015. Available at: http://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/kern/r5-2015-0093.pdf.

Cypher, B. and Frost, N. 1999. Condition of San Joaquin Kit Foxes in Urban and Exurban Habitats. J. Wildlife Mgmt. Vol. 63(3) at p. 930, 1999.

Cypher, B. 2010. Kit Foxes (Vulpes macrotis). Urban Carnivores: Ecology, Conflict, and Conservation, at Ch. 9., p. 49. Gehrt. S., Riley, S., & Cypher, B. eds., Johns Hopkins Press, 2010.

Cypher, B., Phillips, S., & Kelly, P. 2013. Quantity and Distribution of Suitable Habitat for Endangered San Joaquin Kit Foxes: Conservation Implications. Canid Biology & Conservation 16(7) at 25. Available at: http://www.canids.org/CBC/16/san_joaquin_kit_fox_habitat_suitability.pdf.

Earthjustice. 2014. Teleconference Transcript: Using Municipal Zoning to Limit or Ban Fracking in California Communities. Earthjustice, Apr. 2014. Available at: http://earthjustice.org/features/usingmunicipalzoningtolimitorbanfrackingincaliforniacommunities#.

Feinstein, L., Dautier, D., Heberger, M., Phillips, S., Lindsey, N., Ulrich, C., Brandt, A. & Foxall, W. 2015. Case Study of the Potential Development of Source Rock in the Monterey Formation. An Independent Scientific Assessment of Well Stimulation in California, Vol. 3: Case Studies of Hydraulic Fracturing and Acid Stimulations in Select Regions: O-shore, Monterey Formation, Los Angeles Basin, and San Joaquin Basin, at Ch. 3, p. 112. California Council on Science and Technology, Jul. 2015.

Fiehler, C. & Cypher B. 2011. Ecosystem Analysis of Oilfields in Western Kern County, California. Prepared for the U.S. Bureau of Land Management, Bakersfield Field Office, Jan. 28, 2011.

Frost, N. 2005. San Joaquin Kit Fox Home Range, Habitat Use, and Movements in Urban Bakersfield. Unpublished M.S. Thesis, Humboldt State University. Dec. 2005. Available at: http://humboldt-dspace.calstate.edu/bitstream/handle/2148/36/Frost.pdf?sequence=1.

Germano, D., Rathburn, G., & Saslaw, L. 2011. Effects of Grazing and Invasive Grasses on Desert Vertebrates in California. J. Wildlife Mgmt., 9999 at 1. Sep. 2011.

Kilbourne, C. 2013. Preventing Silica Exposure: Engineering Controls vs. PPE. EHS Daily Advisor, Oct. 28, 2013. Available at: http://ehsdailyadvisor.blr.com/2013/10/preventingsilicaexposureengineeringcontrolsvsppe/.

Marchese, A., Vaughn, T., Zimmerle, D., Martinez, D., Williams, L., Robinson, A., Mitchell, A., Subramanian, R., Tkacik, D., Roscioli, J.& Herndon, S. 2015. Methane Emissions from United States Natural Gas Gathering and Processing. Envt'l Sci. & Tech. vol. 49, at p. 10718. Aug. 18, 2015.

McKenzie, L., Witter, R., Newman, L & Adgate, J. 2012. Human Health Risk Assessment of Air Emissions from Development of Unconventional Natural Gas Resources. Sci. of the Total Env't, vol. 424 at p. 79, Mar. 2012.

McKenzie, L., Guo, R., Witter, R., Savitz, D., Newman, L. & Adgate, J. 2014. Birth Outcomes and Maternal Residential Proximity to Natural Gas Development in Rural Colorado. Envtl. Health Perspectives, vol. 122(4) at p. 412, Apr. 2014.

Mojave Desert Air Quality Management District (MDAQMD). 2011. California Environmental Quality Act (CEQA) and Federal Conformity Guidelines. MDAQMD Planning, Rule Making and Grants Section, Surveillance Section, Sep. 2011. Available at: http://www.mdaqmd.ca.gov/Modules/ShowDocument.aspx?documentid=2910.

RegionalDirectory.us. 2015. California Oil and Gas Companies. Last accessed Oct. 19, 2015. Available at: http://oil-and-gas.regionaldirectory.us/california.htm.

San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD). 2005. Rule 4623 Storage of Organic Liquids. SJVUAPCD, May 19, 2005. Available at: http://www.arb.ca.gov/drdb/sju/curhtml/r4623.pdf.

San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD). 2007. 2007 Ozone Plan. SJVUAPCD, Apr. 30, 2007. Available at: http://www.valleyair.org/Air_Quality_Plans/docs/AQ_Ozone_2007_Adopted/2007_8HourOzone_CompletePlan.pdf.

San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD). 2013. 2013 Plan for the Revoked 1-Hour Ozone Standard. SJVUAPCD, Sep. 19, 2013. Available at: http://www.valleyair.org/Air_Quality_Plans/OzoneOneHourPlan2013/AdoptedPlan.pdf.

San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD). 2014. SJVUAPCD BACT Guideline. SJVUAPCD, Last updated Mar., 2014. Available at: http://www.valleyair.org/busind/pto/bact/bactLoader.htm.

San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD). 2014. 2014 Reasonably Available Control Technology (RACT) Demonstration for the 8-Hour Ozone State Implementation Plan (SIP). SJVUAPCD, Jun. 19, 2014. Available at: http://www.valleyair.org/Air_Quality_Plans/docs/2014-RACT-SIP.PDF.

San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD). 2014. San Joaquin Valley Air Pollution Control District 2014 Annual Report, Indirect Source Review Program. Reporting Period: July 1, 2013 to June 30, 2014. SJVUAPCD, Nov. 13, 2014. Available at: http://www.valleyair.org/ISR/Documents/2014-AnnualISRReport.pdf.

San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD). 2015. Final Staff Report: Update to District's Risk Management Policy to Address OEHHA's Revised Risk Assessment Guidance Document. SJVUAPCD, May 28, 2015. Available at: https://www.valleyair.org/busind/pto/staff-report-5-28-15.pdf.

San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD). 2015. APR – 1906 Framework for Performing Health Risk Assessments. SJVUAPCD, Jun. 30, 2015. Available at: https://www.valleyair.org/policies_per/Policies/apr-1906.pdf.

San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD). 2015. Ambient Air Quality Standards & Valley Attainment Status. SJVUAPCD, last accessed: Oct. 19, 2015. Available at: https://www.valleyair.org/aqinfo/attainment.htm.

San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD). 2015. San Joaquin Valley Air Pollution Control District Regulation VIII – Fugitive PM10 Prohibitions Dust Control Plan. SJVUAPCD, last accessed Oct. 19, 2015. Available at: http://www.valleyair.org/busind/comply/PM10/forms/DCP-Form.doc.

Santa Barbara County Air Pollution Control District (SBCAPCD). 2015. Significan Risk Facilities. SBCAPCD, last accessed Oct. 19, 2015. Available at: http://www.ourair.org/significant-risk-facilities/.

South Coast Air Quality Management District (SCAQMD). 2015. SCAQMD Air Quality Significance Thresholds. SCAQMD, last updated Mar. 2015. Available at: http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2.

United States Energy Information Administration (US EIA). 2014. Coalbed Methane Production. US EIA, Dec. 4, 2014. Available at: http://www.eia.gov/dnav/ng/ng_prod_coalbed_s1_a.htm.

United States Environmental Protection Agency (US EPA). 1991. OSWER Directive 9355.0-30 Role of the Baseline Risk Assessment in Superfund Remedy Selection Decisions. US EPA, Office of Solid Waste and Emergency Response, Apr. 22, 1991.

United States Environmental Protection Agency (US EPA). 2005. Characterizing Risk and Hazard. Human Health Risk Assessment Protocol (HHRAP) for Hazardous Waste Combustion Facilities, Ch. 7. US EPA, Office of Solid Waste, Sep. 2005. Available at: http://www3.epa.gov/epawaste/hazard/tsd/td/combust/finalmact/ssra/05hhrap7.pdf.

United States Environmental Protection Agency (US EPA). 2006. Air Quality Criteria for Ozone and Related Photochemical Oxidants, Vol. I. National Center for Environmental Assessment-RTP Office, Office of Research and Development, US EPA, Research Triangle Park, N.C., Feb. 2006.

United States Environmental Protection Agency (US EPA). 2006. AP 42 Compilation of Air Pollutant Emission Factors, Section 13.2.4.3. US EPA, Nov. 2006. Available at: http://www3.epa.gov/ttnchie1/ap42/.

United States Environmental Protection Agency (US EPA). 2012. EPA File No. 01R-95-R9, Dismissal and Closure of Title VI Complaint. US EPA, Office of Civil Rights, Aug. 30, 2012.

United States Environmental Protection Agency (US EPA). 2015. Designations in US EPA Region 9 for the 2008 8-Hour Ozone (O3) National Ambient Air Quality Standards (map). US EPA Region 9, Air, last updated: Mar. 12, 2015. Available at: http://www.epa.gov/region9/air/maps/pdfs/AIR1100018_7.pdf.

United States Environmental Protection Agency (US EPA). 2015. Hudson River PCBs Superfund Site, Cleanup Plans and Documents. US EPA, last updated Jun. 11, 2015. Available at: http://www3.epa.gov/hudson/plans.html.

United States Environmental Protection Agency (US EPA). 2015. New Bedford Harbor Cleanup Plans, Technical Documents and Environmental Data. US EPA, last updated Oct. 1, 2015. Available at: http://www2.epa.gov/newbedfordharbor/Newbedfordharborcleanupplanstechnicaldocumentsandenvironmentaldata.

United States Fish and Wildlife Service (USFWS). 1998. Recovery Plan for Upland Species of the San Joaquin Valley, California. USFWS, Region 1, Portland, Oregon, Sep. 1998.

United States Fish and Wildlife Service (USFWS). 2010. San Joaquin Kit Fox (Vulpes macrotis mutica) 5-Year Review: Summary and Evaluation. USFWS, Sacramento Fish and Wildlife Office, Sacramento, California, Feb. 2010.

United States Fish and Wildlife Service (USFWS). 2010. Tipton Kangaroo Rat (Dipodomys nitratoides nitratoides) 5-Year Review: Summary and Evaluation. USFWS, Sacramento Fish and Wildlife Office, Sacramento, California, Feb. 2010.

Ventura County Air Pollution Control District (VCAPCD). 2003. Ventura County Air Quality Assessment Guidelines. VCAPCD, Planning and Evaluation Division, Oct. 2003. Available at: http://www.vcapcd.org/pubs/Planning/VCAQGuidelines.pdf.

Western Regional Air Partnership. 2006. WRAP Fugitive Dust Handbook. Prepared by Countess Environmental for Wester Governor's Association, Denver, CO, Sep. 7, 2006. Available at: http://www.wrapair.org/forums/dejf/fdh/content/FDHandbook_Rev_06.pdf.

Wilkinson, S., Mills, G., Illidge, R, & Davies, W. 2011. How is Ozone Pollution Reducing Our Food Supply? J. Experimental Botany, Oct. 20, 2011. Available at: http://jxb.oxfordjournals.org/content/early/2011/10/17/jxb.err317.full.

Zoellick, B., Harris, C., Kelly, B., O'Farrell, T., Kato, T., & Koopman, M. 2002. Movements and Home Ranges of San Joaquin Kit Foxes (Vulpes macrotis mutica) Relative to Oil-Field Development. W.N. Am. Naturalist, Vol. 62(2) at p.151. 2001.

12.6.4 References cited in Section 12.3: Responses to Written Comments Received after the DEIR Comment Period

Bohlen, S., State Oil and Gas Supervisor, California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR). 2015. Letter to Senator Fran Pavely regarding UIC Regulations and Injection Pressures. DOGGR, Mar. 23, 2015.

California Council on Science and Technology (CCST). 2015. An Independent Scientific Assessment of Well Stimulation in California, Vol. 2: Potential Environmental Impacts of Hydraulic Fracturing and Acid Stimulations. Jul. 2015.

California Department of Conservation, Division of Oil, Gas, and geothermal Resources (DOGGR). 2015. Online Production and Injection Query for State of California. DOGGR, Last accessed Oct. 20, 2015. Available at: http://opi.consrv.ca.gov/opi/opi.dll/Search?UsrP_ID=101242553&FormStack=Main%2CCounty&Cnty_APICode=069&Action=%3C%3C+Back++&PriorState=Encoded%3DTrue.

Fiehler, C. & Cypher B. 2011. Ecosystem Analysis of Oilfields in Western Kern County, California. Prepared for the U.S. Bureau of Land Management, Bakersfield Field Office, Jan. 28, 2011.

Lackey, Melissa A., Morrison Michael L., Loman Zachary G., Collier, Bret A., and Wilkins, R. Neal. 2012. Experimental Determination of the Response of Golden-Cheeked Warblers (*Setophaga chrysoparia*) to Road Construction Noise. Ornithological Monographs, No. 74, at p. 91. ISBN: 978-0-943610-93-1.

Latta, S., Marhsall,L., Frantz, M., and Toms, J. 2015. Evidence From Two Shale Regions that a Riparian Songbird Accumulates Metals Associated With Hydraulic Fracturing. Ecosphere, vol. 6(9) at p. 144, Sep. 11, 2015. Available at: http://dx.doi.org/10.1890/ES14-00406.1.

Radford, Andrew. 2012. The Effects of Noise on Biodiversity (No. 0235): Final Report for Defra. Produced by the School of Biological Sciences, University of Bristol, Woodland Road, Bristol, UK for the Department for Environment, Food, and Rural Affairs.

Rogers, P. 2015. Fracking: Oil Company Drops Lawsuit Attempting to Overturn San Benito County Ban. San Jose Mercury News, Apr. 7, 2015. Available at: http://www.mercurynews.com/drought/ci_27861090/fracking-oil-company-drops-lawsuit-attempting-overturn-san.

San Joaquin Valley Air Pollution Control District (SJVAPCD). 2004. Rule 8061 Paved and Unpaved Roads. SJVAPCD, Aug. 19, 2004. Available at: https://www.valleyair.org/rules/currntrules/r8061.pdf.

South Coast Air Quality Management District (SCAQMD). 2014. Working Group Presentation: Update on Implementation of Rule 1148.2. SCAQMD, Rule 1148.2 Working Group, Nov. 12, 2014. Available at: http://www.aqmd.gov/docs/default-source/compliance/rule-1148.2-reports/r1148-2-wg-pres-nov-12-2014.pdf?sfvrsn=2.

United States Department of Energy, Energy Information Administration (US EIA). 2015. State Energy Consumption Estimates, 1960-2013. US EIA, Jul. 2015. Available at: http://199.36.140.204/state/seds/sep_use/notes/use_print.pdf.

12.6.5 References cited in Section 12.4: Staff-Initiated Revisions to the EIR Following Publication of Chapter 7

Bohlen, S., State Oil and Gas Supervisor, California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR) & Bishop, J., Chief Deputy Director, State Water Resources Control Board (SWRCB) Letter to Michael Montgomery, U.S. EPA, Region IX. Dated Oct. 15, 2015. DOGGR & SWRCB, Oct. 15, 2015. Available at: ftp://ftp.consrv.ca.gov/pub/oil/UIC%20Files/20151015%20-%20Joint%20Letter%20to%20US%20EPA%20Cat%201%20Well%20Review%20Findings.pdf.

California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR). 2015. SB 4 Well Stimulation Treatment Regulations. DOGGR, Jul. 1, 2015. Available at: http://www.caloilgas.com/wp-content/uploads/Final_Text_of_SB_4_WS_-Regulations.pdf.

California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR). 2015. Final EIR, Analysis of Oil and Gas Well Stimulation Treatments in California. DOGGR, 2015.

California Department of Water Resources. 2013. California Water Plan Update 2013, Vol. 2 Regional Reports: Tulare Lake Hydrologic Region. DWR, 2013. Available at: http://www.waterplan.water.ca.gov/docs/cwpu2013/Final/Vol2_TulareLakeRR.pdf.

Caryotakis, A., Davies, I., Hafiz, S., Niketen, J, Noakes, D., Wang, R., & Wu, A. 2015. An Analysis of Hazardous Materials Spills with a Focus on Oil and Gas Production- A 2015 Undergraduate Practicum Project for the UCLA Institute of the Environment and Sustainability. Prepared for the National Resources Defense Council, 2015.

CE Delft. 2007. Traffic Noise Reduction in Europe: Health Effects, Social Costs, and Technical and Policy Options to Reduce Road and Rail Traffic Noise. Prepared for T&E Brussels, Aug. 2007. Available at: http://www.transportenvironment.org/sites/te/files/media/2008-02_traffic_noise_ce_delft_report.pdf.

European Commission. 2015. List of Endocrine Disrupters. European Commission, 2015. Available at: http://ec.europa.eu/environment/chemicals/endocrine/strategy/substances_en.htm#priority_list.

Johns Hopkins Bloomberg School of Public Health. 2015. News Release: Study: Fracking Industry Wells Associated With Premature Birth, Johns Hopkins Bloomberg School of Public Health, Oct. 8, 2015. Available at: http://www.jhsph.edu/news/news-releases/2015/study-fracking-industry-wells-associated-with-premature-birth.html.

San Joaquin Valley Air Pollution Control District (SJVAPCD). 2006. COM 2045, Rule 2020 – Exemptions. SJVAPCD, Compliance Department, Oct. 4, 2006. Available at: http://www.valleyair.org/policies_com/Policies/com2045_rule2020_100406.pdf.

San Joaquin Valley Air Pollution Control District (SJVAPCD). 2007. 2007 Ozone Plan. SJVAPCD, Apr. 30, 2007. Available at: http://www.valleyair.org/Air_Quality_Plans/docs/AQ_Ozone_2007_Adopted/2007_8HourOzone_CompletePlan.pdf.

San Joaquin Valley Air Pollution Control District (SJVAPCD). 2009. Rule 4311 Flares. SJVAPCD, Jun. 18, 2009. Available at: https://www.valleyair.org/rules/currntrules/r4311.pdf.

San Joaquin Valley Air Pollution Control District (SJVAPCD). 2011. Rule 2201 New and Modified Stationary Source Rule. SJVAPCD, Apr. 21, 2011. Available at: https://www.valleyair.org/rules/currntrules/Rule22010411.pdf.

San Joaquin Valley Air Pollution Control District (SJVAPCD). 2011. Rule 4402 Crude Oil Production Sumps. SJVAPCD, Dec. 15, 2011. Available at: https://www.valleyair.org/rules/currntrules/r1020.pdf.

San Joaquin Valley Air Pollution Control District (SJVAPCD). 2013. 2013 Plan for the Revoked 1-Hour Ozone Standard. SJVAPCD, Sep. 19, 2013. Available at: http://www.valleyair.org/Air_Quality_Plans/OzoneOneHourPlan2013/AdoptedPlan.pdf.

San Joaquin Valley Air Pollution Control District (SJVAPCD). 2013. Rule 1020 Definitions. SJVAPCD, Feb. 21, 2013. Available at: https://www.valleyair.org/rules/currntrules/r1020.pdf.

San Joaquin Valley Air Pollution Control District (SJVAPCD). 2014. 2014 Reasonably Available Control Technology (RACT) Demonstration for the 8-Hour Ozone State Implementation Plan (SIP). SJVAPCD, Jun. 19, 2014. Available at: http://www.valleyair.org/Air_Quality_Plans/docs/2014-RACT-SIP.PDF.

San Joaquin Valley Air Pollution Control District (SJVAPCD). 2014. Rule 2020 Exemptions. SJVAPCD, Dec. 18, 2014. Available at: https://www.valleyair.org/rules/currntrules/R2020Rule.pdf.

San Joaquin Valley Air Pollution Control District (SJVAPCD). 2015. Best Available Control Technology (BACT) Clearinghouse. Available at: http://www.valleyair.org/busind/pto/bact/bactLoader.htm

United Nations. 2011. United Nations' Globally Harmonized System of Classification and Labeling of Chemicals (GHS). United Nations, 4th Revised Ed. 2011. Available at: http://www.unece.org/fileadmin/DAM/trans/danger/publi/ghs/ghs_rev04/English/ST-SG-AC10-30-Rev4e.pdf.

United States Census Bureau. 2012. North American Industry Classification System (NAICS). U.S. Census Bureau, last accessed Oct. 20, 2015. Available at: http://www.census.gov/eos/www/naics/2012NAICS/2012_Definition_File.pdf.

United States Environmental Protection Agency (US EPA). 2006. Air Quality Criteria for Ozone and Related Photochemical Oxidants, Vol. I. National Center for Environmental Assessment-RTP Office, Office of Research and Development, US EPA, Research Triangle Park, N.C., Feb. 2006.

Wilkinson, S., Mills, G., Illidge, R, & Davies, W. 2011. How is Ozone Pollution Reducing Our Food Supply? J. Experimental Botany, Oct. 20, 2011. Available at: http://jxb.oxfordjournals.org/content/early/2011/10/17/jxb.err317.full.

Appendix M-2

Cumulative Health Risk Assessment

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Appendix M-2
Cumulative Health Risk Assessment
Kern County Final EIR –
Proposed Drilling and Oil and Gas Operations

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October 2015

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APPENDICES

A-Equipment and Emissions for drilling a 13,000' well

B- AERMOD Modeling Files

C - HARP2 - Health Risk Assessment Output Files

1.0 - PROJECT OVERVIEW

Technical Appendix M-2 was completed in order to evaluate potential cumulative health impacts associated with multiple well drilling operations occurring simultaneously. This cumulative Health Risk Assessment (HRA) has been prepared as part of the Final Environmental Impact Report (FEIR) prepared for the proposed Amendment to Title 19 – Kern County Zoning Ordinance – Chapter 19.98 for Oil and Gas Local Permitting.

California's Office of Environmental Health Hazard Assessment (OEHHA) is tasked with determining the relative toxicity of numerous chemicals and compounds and is also in charge of determining how California's regulatory HRAs will be conducted.

The cumulative HRA conducted for the proposed project followed the OEHHA Guidelines as amended in March 2015. The latest version of the OEHHA Guidance Manual updates the previous version (OEHHA, 2003), and reflects advances in the field of risk assessments along with new more conservative consideration given to infants and children and their associated inhalation rates. The new guidelines are significantly more stringent than the 2003 version and it is this more stringent guideline that was used for the DEIR. Results using the March 2015 OEHHA Guidelines result in calculated risk of more than 300% or 3 times higher than previous calculations using the previous guidelines.

This HRA assumes that up to forty-eight (48) individual 13,000' wells would be drilled in concentric circles around a sensitive receptor. Twelve wells (12) would be $1/8^{th}$ of one mile away from the school, 12 additional wells would be $1/4^{th}$ of one mile away, 12 more wells would be $3/4^{th}$ of one mile away and 12 more would be one mile away. Each well is assumed to have an associated drilling mud sump and emissions from the sump are included in the analysis as well.

While there are not typically operational emissions from a completed well itself, in order to calculate a very conservative health risk assessment, the cumulative HRA assumes that potential well re-work could occur every other year. That would require the use of a workover rig which emits diesel exhaust. The diesel exhaust was also assumed to occur at each of the 48 wells every other year.

2.0 - HEALTH RISK ASSESSMENT OVERVIEW

As recommended by the OEHHA guidelines, HARP2 (CARB, 2015) was used to perform a refined HRA for potential future drilling and operational emissions. HARP2 includes the following three modules: a dispersion model, an exposure/dose module and a risk module. The dispersion model incorporates the United States Environmental Protection Agency (USEPA's) AERMOD model and the risk model includes the latest changes made by OEHHA to the Risk Assessment inputs.

In general, risk assessments involve four steps:

1) Emissions Estimations of Hazardous Air Pollutants;
2) Exposure Assessments;
3) Dose-response Assessments; and
4) Potential Health Risk Quantification.

Emissions Estimations of Hazardous Air Pollutants

Emission estimates involve identifying and quantifying emissions of potential regulated toxic substances from each source. OEHHA guidance regarding whether the pollutants are carcinogenic or possibly associated with short-term or long-term non-cancer health impacts was followed. Toxic emissions from each source were then quantified.

"Hazardous air pollutants (HAPs)" is a term used by the federal Clean Air Act (CAA) that includes avariety of pollutants generated or emitted by industrial production activities. HAPs are also referred to as Toxic Air Contaminants (TACs) under the California Clean Air Act of 1988 (CCAA). California listed diesel exhaust or diesel particulate matter (DPM) as a TAC in 1998. The state of California determines the toxicity of each pollutant and assigns each a potency factor. Those factors are built into the HARP2 risk assessment model.

The DPM toxicity number incorporates the cumulative health effects of all of the constituents of diesel exhaust into one risk number. Therefore, the only TAC associated with diesel equipment from well construction and completion is DPM. The primary TACs of concern for this project are diesel exhaust associated with construction equipment and drill rigs.

DPM was analyzed from drilling operations. Drilling operations also include an assumption that a drilling mud sump will be required for each well drilled. Potential fugitive emissions of hydrocarbons (VOCs) can be emitted from drilling mud sumps. Potential health effects from both DPM and VOCs are summarized herein.

This analysis is based on a number of very conservative assumptions; one of which was to assume that all receptor locations contain sensitive receptors.

Sensitive receptors are defined as people that have an increased sensitivity to air pollution or environmental contaminants. Sensitive receptor locations include schools, parks and playgrounds, day care centers, nursing homes, hospitals, and residential dwelling unit(s). Within each sensitive receptor, it was assumed that children were residing at the site. The location of the nearest sensitive receptors to a project site is needed to assess toxic impacts on public health.

Well Drilling Emissions

Seven phases of drilling were considered as detailed below. All particulate matter 10 microns (PM10) in diameter was considered to be toxic DPM. This significantly overstates true emissions as a portion of the PM10 calculated included road dust and other sources of fugitive

dust associated with well pad construction, well drilling and completion that are not actually DPM.

A very conservative well depth of 13,000' was assumed to be drilled in 2017. Using a very conservative approach, emissions from all seven phases were assumed to occur simultaneously. CARB's OFFROAD emissions estimate model was used to calculate emissions from the primarily mobile and off-road diesel equipment. CARB has extensive regulations for diesel equipment with future compliance dates that will result in significant emission reductions of PM10 over time.

NOTE: CARB's model includes currently adopted diesel regulations designed to reduce emissions from various off-road and on-road engines. No emission reductions are included in future year calculations for potential reductions from proposed or potential additional regulations that may be required in the future.

Each well evaluation consists of the following phases:

- Land Preparation;
- Drilling Survey;
- Well Drilling;
- Well Completion;
- Well Flowline;
- Pump Unit; and
- Electrical.

Numbers and types of equipment associated with each well depth are listed below. An exact equipment list for each of the seven phases and their associated emissions is included in Appendix A.

Emissions from the drilling mud sump are included in the following table.

Table 1 – Equipment Associated with Well Construction, Drilling and Completion*

Depth Feet	Number of Trucks	Off-Road Construction Equip.	Drill Rig HP totals	Drilling Days
13,000	10	55	3 rigs at 1,040 HP each	43

Table 2 - Annualized 13,000 Foot, 2017 Well Drilling Emissions Including Rework

Source	Compound	Annual Emission
		lb/year
Drilling	Diesel Particulate Matter (DPM)[1]	784.32[2]
Rework	Diesel Particulate Matter (DPM)[1]	18.24[3]
Drilling Mud Sump[4]	1,2,4 Trimethylbenzene[5]	0.10
	Benzene[5]	0.48
	Cyclohexane[5]	0.10
	Ethylbenzene[5]	0.10
	n-Hexane[5]	4.32
	Toluene[5]	0.48
	Xylenes[5]	0.48
	Hydrogen Sulfide[6]	0.10

[1]PM10 emissions were from Vector Environmental (Feb 2015). All PM10 was assumed DPM.
[2]Annualized emission based on a 70 year exposure.
[3]500 hp Tier 2 diesel engine operating every other year for 9 days, 30 minutes per day, annualized.
[4]Drilling mud emissions were assumed to occur 1 day per year for 70 years. Actual drilling mud emissions from a 13,000 foot well would occur one time only for 43 days.
[5]From SJVAPCD Website: Oilfield Equipment Light Crude Oil Fugitives.
[6]Based on 100 ppmv H_2S.

3.0 - EXPOSURE ASSESSMENT

Exposure assessment includes air dispersion modeling, identification of emission exposure routes and estimation of exposure levels. The modeling estimates ground level concentrations based on an emission rate of one gram per second. This rate is then multiplied by the worst case potential emission rate for each substance to obtain ground level concentrations. In addition to inhalation, potential pathways of exposure to offsite receptors include dermal exposure and ingestion.

HARP2 incorporates the USEPA AERMOD (v14134) model. AERMOD predicts resulting cumulative concentrations from various emission sources. The rural setting was selected in AERMOD for this analysis. AERMOD's terrain processor, AERMAP, was used to incorporate actual terrain elevations for sources and receptors. Five years of meteorological data required for AERMOD was obtained from the SJVAPCD.

SJVAPCD released its updated risk assessment guidance on May 28, 2015. The Hot Spots Analysis and Reporting Program, Release Version 2 (HARP2) software was revised on June 29, 2015 (Version 15180), and again on July 16, 2015 (Version 15197). Version 15197 was used for this HRA.

For the cumulative analysis, the Shafter area was utilized and the Wasco meteorological station data was used.

Source Modeling Parameters

Potential sources were modeled as described in the table below. Both drilling and operational emissions are assumed to occur along a fence line shared by an oil producer and a private residence (i.e., sensitive receptor).

4.0 - DOSE-RESPONSE

The dose-response assessment describes the quantitative relationship between a human's exposure to a substance (the dose) and the incidence or occurrence of an adverse health impact (the response). For carcinogens, OEHHA has developed cancer potency factors. A cancer potency factor represents the upper bound probability of developing cancer based on a continuous lifetime exposure. The cancer potency factor does not represent a threshold under which a person would not develop cancer, but instead is used to estimate the probability of developing cancer.

Exposure Pathways

A receptor can be hypothetically exposed to a substance through several different pathways. Typically, the primary environmental exposure pathway in an HRA is direct inhalation of gaseous and particulate air pollutants. However, there is the potential for exposure via non-inhalation pathways due to the deposition of particulate pollutants (DPM) in the environment.

For this analysis, HARP2 requires assumptions that DPM could also be ingested via dermal (skin) absorption, soil ingestion and mother's milk ingestion.

5.0 - SIGNIFICANCE THRESHOLDS

SJVAPCD publishes CEQA significance thresholds for potential health risk from proposed projects. Currently, risks from a project that are less than the following regulatory thresholds are considered not to be significant and are, therefore, acceptable:

- Cancer risk equal to or less than 20 in one million

6.0 - HEALTH RISK ASSESSMENT RESULTS

Results of the cumulative modeling study indicate results of 9.3 in one million potential cancer risk.

As stated above, the SJVAPCD CEQA threshold for risk is 20 in one million. Therefore, even with the most conservative assumptions including multiple well drilling in close proximity to sensitive receptors, the cumulative impact are less than the 20 in one million significance thresholds and are not considered significant under CEQA.

7.0 - REFERENCES

California Code of Regulations, Title 22, Division 2, Chapter 3, Section 12000 "Safe Drinking Water and Toxic Enforcement Act of 1986." California regulations can be downloaded at the following link: http://www.oal.ca.gov/.

CARB. 2015. "HARP User Guide." The document can be downloaded at the following link: http://www.arb.ca.gov/toxics/harp/harpug.htm

SCAQMD. 2007. "General Instruction Book for the 2006-2007 Annual Emission Reporting Program." The document can be downloaded at the following link: http://www.ecotek.com/aqmd/2006/forms_and_instructions_pdf/0607_GuideBook.pdf

SCAQMD. 2005. "Risk Assessment Procedures for Rules 1401 and 212". The document can be downloaded at the following links: http://www.aqmd.gov/prdas/pdf/riskassessmentprocedures-v7.pdf and http://www.aqmd.gov/prdas/pdf/attachmentpkg-l.pdf.

SCAQMD. 2005. "Supplemental Guidelines for Preparing Risk Assessments for the Air Toxics "Hot Spots" Information and Assessment Act (AB2588). The document can be downloaded at the following link: http://www.aqmd.gov/prdas/AB2588/pdf/AB2588_Guidelines.pdf.

United States Environmental Protection Agency (U.S. EPA) 2004. User's Guide for the AMS/EPA Regulatory Model – AERMOD, EPA-454/B-03-001.

Meteorological data used by AERMOD was obtained by SJVAPCD for Bakersfield Station 23155.

OEHHA. 2003. "The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments." The document can be downloaded at the following link:http://www.oehha.ca.gov/air/hot_spots/HRSguide.html.

Vector Environmental: Emissions from Offroad Mobile Sources and Portable Equipment Required for the Construction of Wells. 2015. Criteria pollutant emission data by activity, phase and task for years 2012-2029.

Vector Environmental: MS Excel spreadsheet entitled: "DRL_EMISSIONS.xlsx".

Appendix A –
Equipment and Emissions for Drilling a 13,000' Well

2017 Emissions from a 13,000' Well
Construction Activity: A.1 Land Preparation

Vehicle Category and Use	Equipment		Engine		Emissions from Offroad Mobile Source Equipment (Lb/Well)
Description of Offroad Equipment	Count	Op Days	Hr/Day	HP	PM10
Water Truck	1	7	8.48	400	2.72
Loader	1	4	2.5	100	.29
35 Yard Dump Truck	1	2	1.00	400	.09
Grader	1	4	2.5	175	.68
Skip & Scrap (Backhoe)	1	1	1.0	100	.03
Big Scrapper	1	2	2.5	362	.41
Dozer (D9R)	1	1	1.0	255	.08
Low Bed Truck/Trailer	1	2	.5	400	.05
Dump Truck 10 Wheels	1	1	.5	400	.02
Backhoe	1	2	.54	100	.03
Loader	1	3	2.5	100	.22
Loader	1	2	1.0	100	.06
Escavator (Backoe/tracks)	1	1	1.0	163	.02
Dozer (D8T)	1	1	1.0	255	.08
End Dump Truck & Trailer	1	1	.50	400	.02
Grader	1.0	1.0	.50	175	.03

2017 Emissions from a 13,000' Well
Construction Activity: B.1 Drilling Survey

Vehicle Category and Use	Equipment		Engine		Emissions from Offroad Mobile Source Equipment (Lb/Well)
Description of Offroad Equipment	Count	Op Days	Hr/Day	HP	PM10
Portable Rig	1	1	12	100	0.58
Cement Truck	1	1	12	400	0.55

2017 Emissions from a 13,000' Well
Construction Activity: C.1 Well Drilling

Vehicle Category and Use	Equipment		Engine		Emissions from Offroad Mobile Source Equipment (Lb/Well)
Description of Offroad Equipment	Count	Op Days	Hr/Day	HP	PM10
Portable Crane	1	2	8	230	0.69
Port Light Stands	5	44	12	20	19.06
Portable Gen. Hydraulic Power	1	44	22	80	27.45
Portable Gen. DSM/Trailers	2	44	24	100	74.85
Portable Gen. Mud Separator	1	43	22	420	45.51
Diesel Electric - Rotary	1	43	22	158	57.08
Diesel Electric Hoist	1	43	22	1094	182.62
Diesel Electric Hoist	1	43	22	962	160.58
Diesel Electric Hoist	1	43	22	1898	316.83

2017 Emissions from a 13,000' Well
Construction Activity: D.1 Well Completion

Vehicle Category and Use	Equipment		Engine		Emissions from Offroad Mobile Source Equipment (Lb/Well)
Description of Offroad Equipment	Count	Op Days	Hr/Day	HP	PM10
Accumulator Generator	1	17	24	100	12.76
Filter Skid (Pump)	1	2	3	90	0.19
Acid Pump #1 (Hydraulic Oil Pump)	1	1	22	175	0.72
Acid Pump #2 (Acid Fluid Pumping)	1	1	22	765	1.45
Generator for Doghouse for WO Rig	1	17	24	70	8.93
3 Light Plants for WO Rig	3	17	12	20	3.90
Diesel Engine for COROD or Other	1	1	22	450	1.49
Portable Den. Mud Separator	1	17	22	420	15.87
Diesel Electric - Rotary	1	17	22	144	18.15
Diesel Electric Hoist and Pump	1	17	22	996	58.00
Diesel Electric Hoist and Pump	1	17	22	981	57.12
Diesel Electric Hoist and Pump	1	17	22	1145	66.67

2017 Emissions from a 13,000' Well
Construction Activity: E.1 Well Flowline

Vehicle Category and Use	Equipment		Engine		Emissions from Offroad Mobile Source Equipment (Lb/Well)
Description of Offroad Equipment	Count	Op Days	Hr/Day	HP	PM10
Side Boom D4/Crawler	1	3	10	520	0.79
Backhoe	1	3	10	95	0.84
Pipe Fitting or Welders	1	3	10	40	0.43
Hydrotest Pump	1	1	1	20	0.01
Forklift	1	3	10	125	0.49
Other Equipment/Bending Machine	1	3	10	80	1.04

2017 Emissions from a 13,000' Well
Construction Activity: F.1 Pump Unit

Vehicle Category and Use	Equipment		Engine		Emissions from Offroad Mobile Source Equipment (Lb/Well)
Description of Offroad Equipment	Count	Op Days	Hr/Day	HP	PM10
Power Generator	1	2	8	10	0.06
Backhoe	1	2	4	80	0.19
Welder	1	2	8	25	0.14

2017 Emissions from a 13,000' Well
Construction Activity: G.1 Electrical

Vehicle Category and Use	Equipment		Engine		Emissions from Offroad Mobile Source Equipment (Lb/Well)
Description of Offroad Equipment	Count	Op Days	Hr/Day	HP	PM10
Line Truck	1	4	10	250	1.50
Bucket Truck	1	4	10	250	1.50
Electrical Service Truck	1	4	1	300	0.14
Power Generators	1	4	1	10	0.01
Back-Hoe	1	1	10	650	0.74

Appendix B – Modeling Files

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 Exiting DEMCHK

 Finished Reading Input DEM Data


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 MIN Latitude  =    20.0000 MAX Latitude  =    50.0000

   1  Conus

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   2  Alaska

 Exiting CHKADJ
 Exiting RECCNV
 Exiting SRCCNV
 Exiting DEMREC
 Exiting DEMSRC

 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************

FF *** AERMAP - VERSION 11103 ***    ***  SCHOOL_100515AERMAP INPUT                                    ***       10/05/15
                                  ***  CREATED BY HARP                                            ***       14:11:44


                                       ***     AERMAP SETUP OPTIONS SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -


 **This Run Includes:       6  DEM File(s)

 **This Run Includes:       9  Receptor(s); and       96  Source(s)

 **The Input Receptors and Sources Were Assigned a NADA Value of  4:  North American Datum of 1983

 **The Input Receptors and Sources Are Offset:        0.00 meters East;         0.00 meters North
     from the User-specified Anchor Point at:   294350.00 meters East;   3932570.00 meters North;  Zone  11

 **Terrain heights were EXTRACTed from DEM data

 **The Following Debug Output Files Have Been Automatically Generated:

   DOMDETAIL.OUT - Details of User-specified Domain and Relation to DEM Files
   MAPDETAIL.OUT - Details Regarding Input DEM Files
   MAPPARAMS.OUT - Summary of DEM File Parameters and DEM File Adjacency
FF *** AERMAP - VERSION 11103 ***    ***  SCHOOL_100515AERMAP INPUT                                    ***       10/05/15
                                  ***  CREATED BY HARP                                            ***       14:11:44

 *** Message Summary For AERMAP Execution ***

 --------- Summary of Total Messages --------

 A Total of          0 Fatal Error Message(s)
 A Total of          0 Warning Message(s)
 A Total of          0 Informational Message(s)


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              ***  NONE  ***


    ********   WARNING MESSAGES   ********
              ***  NONE  ***


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    *** AERMAP Finishes Successfully ***
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** AERMAP - VERSION 11103                                          10/05/15
**                                                                 14:11:44
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**  CREATED BY HARP
** A total of      6  DEM files were used
** A total of     96  sources were processed
** No user-specifed DOMAIN; all available data used
** ANCHORXY  294350 3932570 294350 3932570 11 4
** TERRHGTS  EXTRACT

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SO LOCATION  H120          POINT        295035.00    3932150.00        109.12
SO LOCATION  H180          POINT        294330.00    3931755.00        107.29
SO LOCATION  H240          POINT        293650.00    3932190.00        107.29
SO LOCATION  H300          POINT        293660.00    3932990.00        108.81
SO LOCATION  O000          POINT        294390.00    3934185.00        112.99
SO LOCATION  O030          POINT        295190.00    3933935.00        114.00
SO LOCATION  O060          POINT        295765.00    3933340.00        113.39
SO LOCATION  O090          POINT        295965.00    3932535.00        112.78
SO LOCATION  O120          POINT        295730.00    3931730.00        110.17
SO LOCATION  O150          POINT        295120.00    3931150.00        107.60
SO LOCATION  O180          POINT        294315.00    3930970.00        105.77
SO LOCATION  O210          POINT        293510.00    3931195.00        104.85
SO LOCATION  O240          POINT        292935.00    3931800.00        105.63
SO LOCATION  O270          POINT        292735.00    3932615.00        106.68
SO LOCATION  O300          POINT        292970.00    3933405.00        108.00
SO LOCATION  O330          POINT        293565.00    3933980.00        110.73
SO LOCATION  SH000         AREA         294370.00    3933385.00        110.96
SO LOCATION  SH060         AREA         295055.00    3932950.00        111.22
SO LOCATION  SH120         AREA         295035.00    3932150.00        109.12
SO LOCATION  SH180         AREA         294330.00    3931775.00        107.29
SO LOCATION  SH240         AREA         293650.00    3932190.00        107.29
SO LOCATION  SH300         AREA         293660.00    3932990.00        108.81
SO LOCATION  SO000         AREA         294390.00    3934185.00        112.99
SO LOCATION  SO030         AREA         295190.00    3933935.00        114.00
SO LOCATION  SO060         AREA         295765.00    3933340.00        113.39
SO LOCATION  SO090         AREA         295965.00    3932535.00        112.78
SO LOCATION  SO120         AREA         295730.00    3931730.00        110.17
SO LOCATION  SO150         AREA         295120.00    3931150.00        107.60
SO LOCATION  SO180         AREA         294315.00    3930970.00        105.77
SO LOCATION  SO210         AREA         293510.00    3931195.00        104.85
SO LOCATION  SO240         AREA         292935.00    3931800.00        105.63
SO LOCATION  SO270         AREA         292735.00    3932615.00        106.68
SO LOCATION  SO300         AREA         292970.00    3933405.00        108.00
SO LOCATION  SO330         AREA         293565.00    3933980.00        110.73
SO LOCATION  E_SW          POINT        294080.00    3932325.00        108.20
SO LOCATION  E_NW          POINT        294095.00    3932835.00        109.42
SO LOCATION  E_NE          POINT        294630.00    3932825.00        110.16
SO LOCATION  E_SE          POINT        294615.00    3932310.00        108.81
SO LOCATION  SE_SW         AREA         294080.00    3932325.00        108.20
SO LOCATION  SE_NW         AREA         294095.00    3932835.00        109.42
SO LOCATION  SE_NE         AREA         294630.00    3932825.00        110.16
SO LOCATION  SE_SE         AREA         294615.00    3932310.00        108.81
SO LOCATION  E_NNW         POINT        294310.00    3932890.00        110.03
SO LOCATION  E_NNE         POINT        294385.00    3932890.00        110.03
SO LOCATION  E_ENE         POINT        294685.00    3932610.00        109.56
SO LOCATION  E_ESE         POINT        294685.00    3932535.00        109.42
SO LOCATION  E_SSE         POINT        294300.00    3932260.00        108.20
SO LOCATION  E_SSW         POINT        294375.00    3932260.00        108.46
SO LOCATION  E_WSW         POINT        294020.00    3932540.00        108.55
SO LOCATION  E_WNW         POINT        294020.00    3932615.00        108.81
SO LOCATION  SE_NNW        AREA         294310.00    3932890.00        110.03
SO LOCATION  SE_NNE        AREA         294385.00    3932890.00        110.03
SO LOCATION  SE_ENE        AREA         294685.00    3932610.00        109.56
SO LOCATION  SE_ESE        AREA         294685.00    3932535.00        109.42
SO LOCATION  SE_SSE        AREA         294300.00    3932260.00        108.20
SO LOCATION  SE_SSW        AREA         294375.00    3932260.00        108.46
SO LOCATION  SE_WSW        AREA         294020.00    3932540.00        108.55
SO LOCATION  SE_WNW        AREA         294020.00    3932615.00        108.81
SO LOCATION  Q_NNW         POINT        294310.00    3933095.00        110.34
SO LOCATION  Q_NNE         POINT        294385.00    3933095.00        110.59
SO LOCATION  Q_ENE         POINT        294885.00    3932610.00        109.90
SO LOCATION  Q_ESE         POINT        294885.00    3932535.00        109.73
SO LOCATION  Q_SSE         POINT        294300.00    3932055.00        107.90
SO LOCATION  Q_SSW         POINT        294375.00    3932055.00        107.90
```

```
SO LOCATION  Q_WSW          POINT       293825.00    3932540.00       108.51
SO LOCATION  Q_WNW          POINT       293825.00    3932615.00       108.51
SO LOCATION  Q_NW           POINT       293960.00    3932985.00       109.42
SO LOCATION  Q_NE           POINT       294775.00    3932960.00       110.64
SO LOCATION  Q_SE           POINT       294750.00    3932160.00       108.60
SO LOCATION  Q_SW           POINT       293925.00    3932190.00       107.77
SO LOCATION  SQ_NNW         AREA        294310.00    3933095.00       110.34
SO LOCATION  SQ_NNE         AREA        294385.00    3933095.00       110.59
SO LOCATION  SQ_ENE         AREA        294885.00    3932610.00       109.90
SO LOCATION  SQ_ESE         AREA        294885.00    3932535.00       109.73
SO LOCATION  SQ_SSE         AREA        294300.00    3932055.00       107.90
SO LOCATION  SQ_SSW         AREA        294375.00    3932055.00       107.90
SO LOCATION  SQ_WSW         AREA        293825.00    3932540.00       108.51
SO LOCATION  SQ_WNW         AREA        293825.00    3932615.00       108.51
SO LOCATION  SQ_NW          AREA        293960.00    3932985.00       109.42
SO LOCATION  SQ_NE          AREA        294775.00    3932960.00       110.64
SO LOCATION  SQ_SE          AREA        294750.00    3932160.00       108.60
SO LOCATION  SQ_SW          AREA        293925.00    3932190.00       107.77
SO LOCATION  H030           POINT       294775.00    3933255.00       111.54
SO LOCATION  H090           POINT       295155.00    3932555.00       110.34
SO LOCATION  H150           POINT       294735.00    3931865.00       107.90
SO LOCATION  H210           POINT       293925.00    3931885.00       106.98
SO LOCATION  H270           POINT       293545.00    3932600.00       108.06
SO LOCATION  H330           POINT       293955.00    3933275.00       110.03
SO LOCATION  SH030          AREA        294775.00    3933255.00       111.54
SO LOCATION  SH090          AREA        295155.00    3932555.00       110.34
SO LOCATION  SH150          AREA        294735.00    3931865.00       107.90
SO LOCATION  SH210          AREA        293925.00    3931885.00       106.98
SO LOCATION  SH270          AREA        293545.00    3932600.00       108.06
SO LOCATION  SH330          AREA        293955.00    3933275.00       110.03
```

```
** AERMAP - VERSION 11103                                          10/05/15
**                                                                 14:11:44
**  SCHOOL_100515AERMAP INPUT
**  CREATED BY HARP
** A total of       6  DEM files were used
** A total of       9  receptors were processed
** No user-specifed DOMAIN; all available data used
** ANCHORXY  294350 3932570 294350 3932570 11 4
** TERRHGTS  EXTRACT

RE ELEVUNIT METERS
   GRIDCART R20 STA
                    XYINC 294330 3 20 3932550 3 20
   GRIDCART R20      ELEV    1    109.1    109.1    109.1
   GRIDCART R20      ELEV    2    109.1    109.1    109.1
   GRIDCART R20      ELEV    3    109.1    109.1    109.1
   GRIDCART R20      HILL    1    109.1    109.1    109.1
   GRIDCART R20      HILL    2    109.1    109.1    109.1
   GRIDCART R20      HILL    3    109.1    109.1    109.1
   GRIDCART R20 END
```

```
**AERMOD INPUT FILE CREATED BY HARP VERSION 15197
**DATE CREATED: 10/5/2015 2:11:53 PM
**
CO STARTING
   TITLEONE  School EQHO 100515
   TITLETWO
   MODELOPT CONC FLAT ELEV BETA
   AVERTIME 1 PERIOD
   POLLUTID OTHER
   RUNORNOT RUN
   ERRORFIL "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\SCHOOL_100515_AERMOD.ERR"
CO FINISHED
**
**SOURCES
SO STARTING
**SOURCES LOCATIONS
   LOCATION H000 POINT  294370  3933385  110.96
   LOCATION H060 POINT  295055  3932950  111.22
   LOCATION H120 POINT  295035  3932150  109.12
   LOCATION H180 POINT  294330  3931755  107.29
   LOCATION H240 POINT  293650  3932190  107.29
   LOCATION H300 POINT  293660  3932990  108.81
   LOCATION O000 POINT  294390  3934185  112.99
   LOCATION O030 POINT  295190  3933935  114
   LOCATION O060 POINT  295765  3933340  113.39
   LOCATION O090 POINT  295965  3932535  112.78
   LOCATION O120 POINT  295730  3931730  110.17
   LOCATION O150 POINT  295120  3931150  107.6
   LOCATION O180 POINT  294315  3930970  105.77
   LOCATION O210 POINT  293510  3931195  104.85
   LOCATION O240 POINT  292935  3931800  105.63
   LOCATION O270 POINT  292735  3932615  106.68
   LOCATION O300 POINT  292970  3933405  108
   LOCATION O330 POINT  293565  3933980  110.73
   LOCATION SH000 AREA  294370  3933385  110.96
   LOCATION SH060 AREA  295055  3932950  111.22
   LOCATION SH120 AREA  295035  3932150  109.12
   LOCATION SH180 AREA  294330  3931775  107.29
   LOCATION SH240 AREA  293650  3932190  107.29
   LOCATION SH300 AREA  293660  3932990  108.81
   LOCATION SO000 AREA  294390  3934185  112.99
   LOCATION SO030 AREA  295190  3933935  114
   LOCATION SO060 AREA  295765  3933340  113.39
   LOCATION SO090 AREA  295965  3932535  112.78
   LOCATION SO120 AREA  295730  3931730  110.17
   LOCATION SO150 AREA  295120  3931150  107.6
   LOCATION SO180 AREA  294315  3930970  105.77
   LOCATION SO210 AREA  293510  3931195  104.85
   LOCATION SO240 AREA  292935  3931800  105.63
   LOCATION SO270 AREA  292735  3932615  106.68
   LOCATION SO300 AREA  292970  3933405  108
   LOCATION SO330 AREA  293565  3933980  110.73
   LOCATION E_SW POINT  294080  3932325  108.2
   LOCATION E_NW POINT  294095  3932835  109.42
   LOCATION E_NE POINT  294630  3932825  110.16
   LOCATION E_SE POINT  294615  3932310  108.81
   LOCATION SE_SW AREA  294080  3932325  108.2
   LOCATION SE_NW AREA  294095  3932835  109.42
   LOCATION SE_NE AREA  294630  3932825  110.16
   LOCATION SE_SE AREA  294615  3932310  108.81
   LOCATION E_NNW POINT  294310  3932890  110.03
   LOCATION E_NNE POINT  294385  3932890  110.03
   LOCATION E_ENE POINT  294685  3932610  109.56
   LOCATION E_ESE POINT  294685  3932535  109.42
   LOCATION E_SSE POINT  294300  3932260  108.2
   LOCATION E_SSW POINT  294375  3932260  108.46
   LOCATION E_WSW POINT  294020  3932540  108.55
   LOCATION E_WNW POINT  294020  3932615  108.81
   LOCATION SE_NNW AREA  294310  3932890  110.03
   LOCATION SE_NNE AREA  294385  3932890  110.03
   LOCATION SE_ENE AREA  294685  3932610  109.56
   LOCATION SE_ESE AREA  294685  3932535  109.42
   LOCATION SE_SSE AREA  294300  3932260  108.2
   LOCATION SE_SSW AREA  294375  3932260  108.46
   LOCATION SE_WSW AREA  294020  3932540  108.55
   LOCATION SE_WNW AREA  294020  3932615  108.81
   LOCATION Q_NNW POINT  294310  3933095  110.34
```

```
   LOCATION Q_NNE POINT  294385  3933095  110.59
   LOCATION Q_ENE POINT  294885  3932610  109.9
   LOCATION Q_ESE POINT  294885  3932535  109.73
   LOCATION Q_SSE POINT  294300  3932055  107.9
   LOCATION Q_SSW POINT  294375  3932055  107.9
   LOCATION Q_WSW POINT  293825  3932540  108.51
   LOCATION Q_WNW POINT  293825  3932615  108.51
   LOCATION Q_NW POINT  293960  3932985  109.42
   LOCATION Q_NE POINT  294775  3932960  110.64
   LOCATION Q_SE POINT  294750  3932160  108.6
   LOCATION Q_SW POINT  293925  3932190  107.77
   LOCATION SQ_NNW AREA  294310  3933095  110.34
   LOCATION SQ_NNE AREA  294385  3933095  110.59
   LOCATION SQ_ENE AREA  294885  3932610  109.9
   LOCATION SQ_ESE AREA  294885  3932535  109.73
   LOCATION SQ_SSE AREA  294300  3932055  107.9
   LOCATION SQ_SSW AREA  294375  3932055  107.9
   LOCATION SQ_WSW AREA  293825  3932540  108.51
   LOCATION SQ_WNW AREA  293825  3932615  108.51
   LOCATION SQ_NW AREA  293960  3932985  109.42
   LOCATION SQ_NE AREA  294775  3932960  110.64
   LOCATION SQ_SE AREA  294750  3932160  108.6
   LOCATION SQ_SW AREA  293925  3932190  107.77
   LOCATION H030 POINT  294775  3933255  111.54
   LOCATION H090 POINT  295155  3932555  110.34
   LOCATION H150 POINT  294735  3931865  107.9
   LOCATION H210 POINT  293925  3931885  106.98
   LOCATION H270 POINT  293545  3932600  108.06
   LOCATION H330 POINT  293955  3933275  110.03
   LOCATION SH030 AREA  294775  3933255  111.54
   LOCATION SH090 AREA  295155  3932555  110.34
   LOCATION SH150 AREA  294735  3931865  107.9
   LOCATION SH210 AREA  293925  3931885  106.98
   LOCATION SH270 AREA  293545  3932600  108.06
   LOCATION SH330 AREA  293955  3933275  110.03
**SOURCES PARAMETERS
   SRCPARAM H000 1 2.85 761.9  71.23  0.18
   SRCPARAM H060 1 2.85 761.9  71.23  0.18
   SRCPARAM H120 1 2.85 761.9  71.23  0.18
   SRCPARAM H180 1 2.85 761.9  71.23  0.18
   SRCPARAM H240 1 2.85 761.9  71.23  0.18
   SRCPARAM H300 1 2.85 761.9  71.23  0.18
   SRCPARAM O000 1 2.85 761.9  71.23  0.18
   SRCPARAM O030 1 2.85 761.9  71.23  0.18
   SRCPARAM O060 1 2.85 761.9  71.23  0.18
   SRCPARAM O090 1 2.85 761.9  71.23  0.18
   SRCPARAM O120 1 2.85 761.9  71.23  0.18
   SRCPARAM O150 1 2.85 761.9  71.23  0.18
   SRCPARAM O180 1 2.85 761.9  71.23  0.18
   SRCPARAM O210 1 2.85 761.9  71.23  0.18
   SRCPARAM O240 1 2.85 761.9  71.23  0.18
   SRCPARAM O270 1 2.85 761.9  71.23  0.18
   SRCPARAM O300 1 2.85 761.9  71.23  0.18
   SRCPARAM O330 1 2.85 761.9  71.23  0.18
   SRCPARAM SH000 0.01 0 10  10  0
   SRCPARAM SH060 0.01 0 10  10  0
   SRCPARAM SH120 0.01 0 10  10  0
   SRCPARAM SH180 0.01 0 10  10  0
   SRCPARAM SH240 0.01 0 10  10  0
   SRCPARAM SH300 0.01 0 10  10  0
   SRCPARAM SO000 0.01 0 10  10  0
   SRCPARAM SO030 0.01 0 10  10  0
   SRCPARAM SO060 0.01 0 10  10  0
   SRCPARAM SO090 0.01 0 10  10  0
   SRCPARAM SO120 0.01 0 10  10  0
   SRCPARAM SO150 0.01 0 10  10  0
   SRCPARAM SO180 0.01 0 10  10  0
   SRCPARAM SO210 0.01 0 10  10  0
   SRCPARAM SO240 0.01 0 10  10  0
   SRCPARAM SO270 0.01 0 10  10  0
   SRCPARAM SO300 0.01 0 10  10  0
   SRCPARAM SO330 0.01 0 10  10  0
   SRCPARAM E_SW 1 2.85 761.9  71.23  .18
   SRCPARAM E_NW 1 2.85 761.9  71.23  .18
   SRCPARAM E_NE 1 2.85 761.9  71.23  .18
   SRCPARAM E_SE 1 2.85 761.9  71.23  .18
   SRCPARAM SE_SW 0.01000 0 10  10  0
```

```
   SRCPARAM SE_NW 0.01000 0 10   10   0
   SRCPARAM SE_NE 0.01000 0 10   10   0
   SRCPARAM SE_SE 0.01000 0 10   10   0
   SRCPARAM E_NNW 1 2.85 761.9   71.23   .18
   SRCPARAM E_NNE 1 2.85 761.9   71.23   .18
   SRCPARAM E_ENE 1 2.85 761.9   71.23   .18
   SRCPARAM E_ESE 1 2.85 761.9   71.23   .18
   SRCPARAM E_SSE 1 2.85 761.9   71.23   .18
   SRCPARAM E_SSW 1 2.85 761.9   71.23   .18
   SRCPARAM E_WSW 1 2.85 761.9   71.23   .18
   SRCPARAM E_WNW 1 2.85 761.9   71.23   .18
   SRCPARAM SE_NNW 0.01000 0 10   10   0
   SRCPARAM SE_NNE 0.01000 0 10   10   0
   SRCPARAM SE_ENE 0.01000 0 10   10   0
   SRCPARAM SE_ESE 0.01000 0 10   10   0
   SRCPARAM SE_SSE 0.01000 0 10   10   0
   SRCPARAM SE_SSW 0.01000 0 10   10   0
   SRCPARAM SE_WSW 0.01000 0 10   10   0
   SRCPARAM SE_WNW 0.01000 0 10   10   0
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   SRCPARAM Q_NNE 1 2.85 761.9   71.23   .18
   SRCPARAM Q_ENE 1 2.85 761.9   71.23   .18
   SRCPARAM Q_ESE 1 2.85 761.9   71.23   .18
   SRCPARAM Q_SSE 1 2.85 761.9   71.23   .18
   SRCPARAM Q_SSW 1 2.85 761.9   71.23   .18
   SRCPARAM Q_WSW 1 2.85 761.9   71.23   .18
   SRCPARAM Q_WNW 1 2.85 761.9   71.23   .18
   SRCPARAM Q_NW 1 2.85 761.9   71.23   .18
   SRCPARAM Q_NE 1 2.85 761.9   71.23   .18
   SRCPARAM Q_SE 1 2.85 761.9   71.23   .18
   SRCPARAM Q_SW 1 2.85 761.9   71.23   .18
   SRCPARAM SQ_NNW 0.01000 0 10   10   0
   SRCPARAM SQ_NNE 0.01000 0 10   10   0
   SRCPARAM SQ_ENE 0.01000 0 10   10   0
   SRCPARAM SQ_ESE 0.01000 0 10   10   0
   SRCPARAM SQ_SSE 0.01000 0 10   10   0
   SRCPARAM SQ_SSW 0.01000 0 10   10   0
   SRCPARAM SQ_WSW 0.01000 0 10   10   0
   SRCPARAM SQ_WNW 0.01000 0 10   10   0
   SRCPARAM SQ_NW 0.01000 0 10   10   0
   SRCPARAM SQ_NE 0.01000 0 10   10   0
   SRCPARAM SQ_SE 0.01000 0 10   10   0
   SRCPARAM SQ_SW 0.01000 0 10   10   0
   SRCPARAM H030 1 2.85 761.9   71.23   .18
   SRCPARAM H090 1 2.85 761.9   71.23   .18
   SRCPARAM H150 1 2.85 761.9   71.23   .18
   SRCPARAM H210 1 2.85 761.9   71.23   .18
   SRCPARAM H270 1 2.85 761.9   71.23   .18
   SRCPARAM H330 1 2.85 761.9   71.23   .18
   SRCPARAM SH030 0.01000 0 10   10   0
   SRCPARAM SH090 0.01000 0 10   10   0
   SRCPARAM SH150 0.01000 0 10   10   0
   SRCPARAM SH210 0.01000 0 10   10   0
   SRCPARAM SH270 0.01000 0 10   10   0
   SRCPARAM SH330 0.01000 0 10   10   0
   SRCGROUP H000 H000
   SRCGROUP H060 H060
   SRCGROUP H120 H120
   SRCGROUP H180 H180
   SRCGROUP H240 H240
   SRCGROUP H300 H300
   SRCGROUP O000 O000
   SRCGROUP O030 O030
   SRCGROUP O060 O060
   SRCGROUP O090 O090
   SRCGROUP O120 O120
   SRCGROUP O150 O150
   SRCGROUP O180 O180
   SRCGROUP O210 O210
   SRCGROUP O240 O240
   SRCGROUP O270 O270
   SRCGROUP O300 O300
   SRCGROUP O330 O330
   SRCGROUP SH000 SH000
   SRCGROUP SH060 SH060
   SRCGROUP SH120 SH120
   SRCGROUP SH180 SH180
```

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   SRCGROUP SH240 SH240
   SRCGROUP SH300 SH300
   SRCGROUP SO000 SO000
   SRCGROUP SO030 SO030
   SRCGROUP SO060 SO060
   SRCGROUP SO090 SO090
   SRCGROUP SO120 SO120
   SRCGROUP SO150 SO150
   SRCGROUP SO180 SO180
   SRCGROUP SO210 SO210
   SRCGROUP SO240 SO240
   SRCGROUP SO270 SO270
   SRCGROUP SO300 SO300
   SRCGROUP SO330 SO330
   SRCGROUP E_SW E_SW
   SRCGROUP E_NW E_NW
   SRCGROUP E_NE E_NE
   SRCGROUP E_SE E_SE
   SRCGROUP SE_SW SE_SW
   SRCGROUP SE_NW SE_NW
   SRCGROUP SE_NE SE_NE
   SRCGROUP SE_SE SE_SE
   SRCGROUP E_NNW E_NNW
   SRCGROUP E_NNE E_NNE
   SRCGROUP E_ENE E_ENE
   SRCGROUP E_ESE E_ESE
   SRCGROUP E_SSE E_SSE
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   SRCGROUP E_WNW E_WNW
   SRCGROUP SE_NNW SE_NNW
   SRCGROUP SE_NNE SE_NNE
   SRCGROUP SE_ENE SE_ENE
   SRCGROUP SE_ESE SE_ESE
   SRCGROUP SE_SSE SE_SSE
   SRCGROUP SE_SSW SE_SSW
   SRCGROUP SE_WSW SE_WSW
   SRCGROUP SE_WNW SE_WNW
   SRCGROUP Q_NNW Q_NNW
   SRCGROUP Q_NNE Q_NNE
   SRCGROUP Q_ENE Q_ENE
   SRCGROUP Q_ESE Q_ESE
   SRCGROUP Q_SSE Q_SSE
   SRCGROUP Q_SSW Q_SSW
   SRCGROUP Q_WSW Q_WSW
   SRCGROUP Q_WNW Q_WNW
   SRCGROUP Q_NW Q_NW
   SRCGROUP Q_NE Q_NE
   SRCGROUP Q_SE Q_SE
   SRCGROUP Q_SW Q_SW
   SRCGROUP SQ_NNW SQ_NNW
   SRCGROUP SQ_NNE SQ_NNE
   SRCGROUP SQ_ENE SQ_ENE
   SRCGROUP SQ_ESE SQ_ESE
   SRCGROUP SQ_SSE SQ_SSE
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   SRCGROUP SQ_WSW SQ_WSW
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   SRCGROUP SQ_SE SQ_SE
   SRCGROUP SQ_SW SQ_SW
   SRCGROUP H030 H030
   SRCGROUP H090 H090
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   SRCGROUP H330 H330
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**RECEPTORS
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RE FINISHED
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ME PROFFILE "C:\LNM\ECS\Kern_EIR\Met\Downloaded_091115_USTAR\Wasco 07-11.PFL"
ME SURFDATA 66666 2007
ME UAIRDATA 66666 2007
ME SITEDATA 0 2007
ME PROFBASE 77
ME FINISHED
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   RECTABLE 1 1ST
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   LOCATION Q_NNW POINT  294310  3933095  110.34
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   LOCATION Q_ENE POINT  294885  3932610  109.9
   LOCATION Q_ESE POINT  294885  3932535  109.73
   LOCATION Q_SSE POINT  294300  3932055  107.9
   LOCATION Q_SSW POINT  294375  3932055  107.9
   LOCATION Q_WSW POINT  293825  3932540  108.51
   LOCATION Q_WNW POINT  293825  3932615  108.51
   LOCATION Q_NW POINT  293960  3932985  109.42
   LOCATION Q_NE POINT  294775  3932960  110.64
   LOCATION Q_SE POINT  294750  3932160  108.6
   LOCATION Q_SW POINT  293925  3932190  107.77
   LOCATION SQ_NNW AREA  294310  3933095  110.34
   LOCATION SQ_NNE AREA  294385  3933095  110.59
   LOCATION SQ_ENE AREA  294885  3932610  109.9
   LOCATION SQ_ESE AREA  294885  3932535  109.73
   LOCATION SQ_SSE AREA  294300  3932055  107.9
   LOCATION SQ_SSW AREA  294375  3932055  107.9
   LOCATION SQ_WSW AREA  293825  3932540  108.51
   LOCATION SQ_WNW AREA  293825  3932615  108.51
   LOCATION SQ_NW AREA  293960  3932985  109.42
   LOCATION SQ_NE AREA  294775  3932960  110.64
   LOCATION SQ_SE AREA  294750  3932160  108.6
   LOCATION SQ_SW AREA  293925  3932190  107.77
   LOCATION H030 POINT  294775  3933255  111.54
   LOCATION H090 POINT  295155  3932555  110.34
   LOCATION H150 POINT  294735  3931865  107.9
   LOCATION H210 POINT  293925  3931885  106.98
   LOCATION H270 POINT  293545  3932600  108.06
   LOCATION H330 POINT  293955  3933275  110.03
   LOCATION SH030 AREA  294775  3933255  111.54
   LOCATION SH090 AREA  295155  3932555  110.34
   LOCATION SH150 AREA  294735  3931865  107.9
   LOCATION SH210 AREA  293925  3931885  106.98
   LOCATION SH270 AREA  293545  3932600  108.06
   LOCATION SH330 AREA  293955  3933275  110.03
**SOURCES PARAMETERS
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   SRCPARAM H060 1 2.85 761.9  71.23  0.18
   SRCPARAM H120 1 2.85 761.9  71.23  0.18
   SRCPARAM H180 1 2.85 761.9  71.23  0.18
   SRCPARAM H240 1 2.85 761.9  71.23  0.18
   SRCPARAM H300 1 2.85 761.9  71.23  0.18
   SRCPARAM O000 1 2.85 761.9  71.23  0.18
   SRCPARAM O030 1 2.85 761.9  71.23  0.18
   SRCPARAM O060 1 2.85 761.9  71.23  0.18
   SRCPARAM O090 1 2.85 761.9  71.23  0.18
   SRCPARAM O120 1 2.85 761.9  71.23  0.18
   SRCPARAM O150 1 2.85 761.9  71.23  0.18
   SRCPARAM O180 1 2.85 761.9  71.23  0.18
   SRCPARAM O210 1 2.85 761.9  71.23  0.18
   SRCPARAM O240 1 2.85 761.9  71.23  0.18
   SRCPARAM O270 1 2.85 761.9  71.23  0.18
   SRCPARAM O300 1 2.85 761.9  71.23  0.18
   SRCPARAM O330 1 2.85 761.9  71.23  0.18
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   SRCPARAM SH060 0.01 0 10  10  0
   SRCPARAM SH120 0.01 0 10  10  0
   SRCPARAM SH180 0.01 0 10  10  0
   SRCPARAM SH240 0.01 0 10  10  0
   SRCPARAM SH300 0.01 0 10  10  0
   SRCPARAM SO000 0.01 0 10  10  0
   SRCPARAM SO030 0.01 0 10  10  0
   SRCPARAM SO060 0.01 0 10  10  0
   SRCPARAM SO090 0.01 0 10  10  0
   SRCPARAM SO120 0.01 0 10  10  0
   SRCPARAM SO150 0.01 0 10  10  0
   SRCPARAM SO180 0.01 0 10  10  0
   SRCPARAM SO210 0.01 0 10  10  0
   SRCPARAM SO240 0.01 0 10  10  0
   SRCPARAM SO270 0.01 0 10  10  0
   SRCPARAM SO300 0.01 0 10  10  0
   SRCPARAM SO330 0.01 0 10  10  0
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   SRCPARAM E_NW 1 2.85 761.9  71.23  .18
   SRCPARAM E_NE 1 2.85 761.9  71.23  .18
   SRCPARAM E_SE 1 2.85 761.9  71.23  .18
   SRCPARAM SE_SW 0.01000 0 10  10  0
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   SRCPARAM SE_NE 0.01000 0 10  10  0
   SRCPARAM SE_SE 0.01000 0 10  10  0
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   SRCPARAM E_NNE 1 2.85 761.9  71.23  .18
   SRCPARAM E_ENE 1 2.85 761.9  71.23  .18
   SRCPARAM E_ESE 1 2.85 761.9  71.23  .18
   SRCPARAM E_SSE 1 2.85 761.9  71.23  .18
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   SRCPARAM Q_NNE 1 2.85 761.9  71.23  .18
   SRCPARAM Q_ENE 1 2.85 761.9  71.23  .18
   SRCPARAM Q_ESE 1 2.85 761.9  71.23  .18
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   SRCPARAM Q_WNW 1 2.85 761.9  71.23  .18
   SRCPARAM Q_NW 1 2.85 761.9  71.23  .18
   SRCPARAM Q_NE 1 2.85 761.9  71.23  .18
   SRCPARAM Q_SE 1 2.85 761.9  71.23  .18
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   SRCPARAM SQ_ENE 0.01000 0 10  10  0
   SRCPARAM SQ_ESE 0.01000 0 10  10  0
   SRCPARAM SQ_SSE 0.01000 0 10  10  0
   SRCPARAM SQ_SSW 0.01000 0 10  10  0
   SRCPARAM SQ_WSW 0.01000 0 10  10  0
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   SRCPARAM SQ_NE 0.01000 0 10  10  0
   SRCPARAM SQ_SE 0.01000 0 10  10  0
   SRCPARAM SQ_SW 0.01000 0 10  10  0
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   SRCPARAM H090 1 2.85 761.9  71.23  .18
   SRCPARAM H150 1 2.85 761.9  71.23  .18
   SRCPARAM H210 1 2.85 761.9  71.23  .18
   SRCPARAM H270 1 2.85 761.9  71.23  .18
   SRCPARAM H330 1 2.85 761.9  71.23  .18
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   SRCPARAM SH090 0.01000 0 10  10  0
   SRCPARAM SH150 0.01000 0 10  10  0
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**RECEPTORS
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RE FINISHED
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ME PROFFILE "C:\LNM\ECS\Kern_EIR\Met\Downloaded_091115_USTAR\Wasco 07-11.PFL"
ME SURFDATA 66666 2007
ME UAIRDATA 66666 2007
ME SITEDATA 0 2007
ME PROFBASE 77
ME FINISHED
**
**OUTPUT PATHWAY
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   PLOTFILE 1 H000 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRH000.PLT" 31
   PLOTFILE 1 H060 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRH060.PLT" 32
   PLOTFILE 1 H120 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRH120.PLT" 33
   PLOTFILE 1 H180 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRH180.PLT" 34
   PLOTFILE 1 H240 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRH240.PLT" 35
   PLOTFILE 1 H300 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRH300.PLT" 36
   PLOTFILE 1 O000 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRO000.PLT" 37
   PLOTFILE 1 O030 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRO030.PLT" 38
   PLOTFILE 1 O060 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRO060.PLT" 39
   PLOTFILE 1 O090 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRO090.PLT" 40
   PLOTFILE 1 O120 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRO120.PLT" 41
   PLOTFILE 1 O150 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRO150.PLT" 42
   PLOTFILE 1 O180 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRO180.PLT" 43
   PLOTFILE 1 O210 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRO210.PLT" 44
   PLOTFILE 1 O240 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRO240.PLT" 45
   PLOTFILE 1 O270 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRO270.PLT" 46
   PLOTFILE 1 O300 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRO300.PLT" 47
   PLOTFILE 1 O330 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRO330.PLT" 48
   PLOTFILE 1 SH000 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSH000.PLT" 49
   PLOTFILE 1 SH060 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSH060.PLT" 50
   PLOTFILE 1 SH120 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSH120.PLT" 51
   PLOTFILE 1 SH180 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSH180.PLT" 52
   PLOTFILE 1 SH240 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSH240.PLT" 53
   PLOTFILE 1 SH300 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSH300.PLT" 54
   PLOTFILE 1 SO000 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSO000.PLT" 55
   PLOTFILE 1 SO030 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSO030.PLT" 56
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   PLOTFILE 1 SO090 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSO090.PLT" 58
   PLOTFILE 1 SO120 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSO120.PLT" 59
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   PLOTFILE 1 SO210 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSO210.PLT" 62
   PLOTFILE 1 SO240 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSO240.PLT" 63
   PLOTFILE 1 SO270 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSO270.PLT" 64
   PLOTFILE 1 SO300 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSO300.PLT" 65
   PLOTFILE 1 SO330 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSO330.PLT" 66
   PLOTFILE 1 E_SW 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRE_SW.PLT" 67
   PLOTFILE 1 E_NW 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRE_NW.PLT" 68
   PLOTFILE 1 E_NE 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRE_NE.PLT" 69
   PLOTFILE 1 E_SE 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRE_SE.PLT" 70
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   PLOTFILE 1 SE_NW 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSE_NW.PLT" 72
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   PLOTFILE 1 E_ENE 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRE_ENE.PLT" 77
   PLOTFILE 1 E_ESE 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRE_ESE.PLT" 78
   PLOTFILE 1 E_SSE 1ST "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRE_SSE.PLT" 79
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   PLOTFILE PERIOD Q_SSE "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\PERIODQ_SSE.PLT" 191
   PLOTFILE PERIOD Q_SSW "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\PERIODQ_SSW.PLT" 192
   PLOTFILE PERIOD Q_WSW "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\PERIODQ_WSW.PLT" 193
   PLOTFILE PERIOD Q_WNW "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\PERIODQ_WNW.PLT" 194
   PLOTFILE PERIOD Q_NW "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\PERIODQ_NW.PLT" 195
   PLOTFILE PERIOD Q_NE "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\PERIODQ_NE.PLT" 196
   PLOTFILE PERIOD Q_SE "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\PERIODQ_SE.PLT" 197
   PLOTFILE PERIOD Q_SW "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\PERIODQ_SW.PLT" 198
   PLOTFILE PERIOD SQ_NNW "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\PERIODSQ_NNW.PLT" 199
   PLOTFILE PERIOD SQ_NNE "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\PERIODSQ_NNE.PLT" 200
   PLOTFILE PERIOD SQ_ENE "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\PERIODSQ_ENE.PLT" 201
   PLOTFILE PERIOD SQ_ESE "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\PERIODSQ_ESE.PLT" 202
   PLOTFILE PERIOD SQ_SSE "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\PERIODSQ_SSE.PLT" 203
   PLOTFILE PERIOD SQ_SSW "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\PERIODSQ_SSW.PLT" 204
   PLOTFILE PERIOD SQ_WSW "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\PERIODSQ_WSW.PLT" 205
   PLOTFILE PERIOD SQ_WNW "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\PERIODSQ_WNW.PLT" 206
   PLOTFILE PERIOD SQ_NW "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\PERIODSQ_NW.PLT" 207
   PLOTFILE PERIOD SQ_NE "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\PERIODSQ_NE.PLT" 208
   PLOTFILE PERIOD SQ_SE "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\PERIODSQ_SE.PLT" 209
   PLOTFILE PERIOD SQ_SW "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\PERIODSQ_SW.PLT" 210
   PLOTFILE PERIOD H030 "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\PERIODH030.PLT" 211
   PLOTFILE PERIOD H090 "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\PERIODH090.PLT" 212
   PLOTFILE PERIOD H150 "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\PERIODH150.PLT" 213
   PLOTFILE PERIOD H210 "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\PERIODH210.PLT" 214
   PLOTFILE PERIOD H270 "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\PERIODH270.PLT" 215
   PLOTFILE PERIOD H330 "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\PERIODH330.PLT" 216
   PLOTFILE PERIOD SH030 "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\PERIODSH030.PLT" 217
   PLOTFILE PERIOD SH090 "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\PERIODSH090.PLT" 218
   PLOTFILE PERIOD SH150 "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\PERIODSH150.PLT" 219
   PLOTFILE PERIOD SH210 "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\PERIODSH210.PLT" 220
   PLOTFILE PERIOD SH270 "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\PERIODSH270.PLT" 221
   PLOTFILE PERIOD SH330 "C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\PERIODSH330.PLT" 222
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of          173 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 CO W200       6       TITLES: Missing Parameter(s). No Options Specified For        TITLETWO
 SO W320     114        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     115        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     116        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
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 SO W320     117        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     118        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     119        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     120        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     121        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     122        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     123        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     124        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     125        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     126        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     127        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     128        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     129        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     130        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     131        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     150        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     151        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     152        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     153        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     158        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     159        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     160        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     161        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     162        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     163        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     164        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     165        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     174        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     175        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     176        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     177        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     178        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     179        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     180        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     181        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     182        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     183        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     184        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     185        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     198        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     199        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     200        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     201        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     202        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     203        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 RE W213      20       RECART: ELEV Input Inconsistent With Option: Input Ignored         R20
 ME W187     321       MEOPEN: ADJ_U* Beta Option for Low Winds used in AERMET      Non-DFAULT
 OU W565     397       OUPLOT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
 OU W565     398       OUPLOT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
 OU W565     399       OUPLOT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
 OU W565     400       OUPLOT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
 OU W565     401       OUPLOT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
 OU W565     402       OUPLOT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
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 OU W565     420       OUPLOT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
 OU W565     421       OUPLOT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
 OU W565     422       OUPLOT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
 OU W565     423       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
 OU W565     424       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
 OU W565     425       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
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 OU W565     427       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
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 OU W565     473       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
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 OU W565     500       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
 OU W565     501       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
 OU W565     502       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
 OU W565     503       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
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 OU W565     504       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
 OU W565     505       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
 OU W565     506       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
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 OU W565     512       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
 OU W565     513       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
 OU W565     514       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
 OU W565     515       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
 OU W565     516       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
 OU W565     517       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
 OU W565     518       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE

 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************

FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                            ***      14:12:10
                                                                                                          PAGE   1
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                                        ***     MODEL SETUP OPTIONS SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses RURAL Dispersion Only.

 **Model Allows User-Specified Options:
        1. Stack-tip Downwash.
        2. Allow FLAT/ELEV Terrain Option by Source,
           with      0 FLAT and     96 ELEV Source(s).
        3. Use Calms Processing Routine.
        4. Use Missing Data Processing Routine.
        5. No Exponential Decay.

 **Other Options Specified:
        ADJ_U*   - Use ADJ_U* BETA option for SBL in AERMET
        CCVR_Sub - Meteorological data includes CCVR substitutions
        TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  OTHER

 **Model Calculates  1 Short Term Average(s) of:   1-HR
     and Calculates PERIOD Averages

 **This Run Includes:     96 Source(s);      96 Source Group(s); and       9 Receptor(s)

 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  14134

 **Output Options Selected:
         Model Outputs Tables of PERIOD Averages by Receptor
         Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing Hours
                                                                 b for Both Calm and Missing Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =    77.00 ;  Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC                              ;  Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3
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 **Approximate Storage Requirements of Model =      3.7 MB of RAM.

 **Detailed Error/Message File:   C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                    ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                       ***      14:12:10
                                                                                                                      PAGE   2
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*


                                          *** POINT SOURCE DATA ***

             NUMBER EMISSION RATE                    BASE     STACK   STACK    STACK     STACK    BLDG   URBAN  CAP/  EMIS RATE
   SOURCE     PART.  (GRAMS/SEC)     X        Y      ELEV.    HEIGHT  TEMP.   EXIT VEL. DIAMETER  EXISTS SOURCE HOR   SCALAR
     ID       CATS.               (METERS) (METERS) (METERS) (METERS) (DEG.K)  (M/SEC)  (METERS)                        VARY BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 H000            0   0.10000E+01  294370.0 3933385.0   111.0     2.85   761.90    71.23     0.18    NO      NO    NO
 H060            0   0.10000E+01  295055.0 3932950.0   111.2     2.85   761.90    71.23     0.18    NO      NO    NO
 H120            0   0.10000E+01  295035.0 3932150.0   109.1     2.85   761.90    71.23     0.18    NO      NO    NO
 H180            0   0.10000E+01  294330.0 3931755.0   107.3     2.85   761.90    71.23     0.18    NO      NO    NO
 H240            0   0.10000E+01  293650.0 3932190.0   107.3     2.85   761.90    71.23     0.18    NO      NO    NO
 H300            0   0.10000E+01  293660.0 3932990.0   108.8     2.85   761.90    71.23     0.18    NO      NO    NO
 O000            0   0.10000E+01  294390.0 3934185.0   113.0     2.85   761.90    71.23     0.18    NO      NO    NO
 O030            0   0.10000E+01  295190.0 3933935.0   114.0     2.85   761.90    71.23     0.18    NO      NO    NO
 O060            0   0.10000E+01  295765.0 3933340.0   113.4     2.85   761.90    71.23     0.18    NO      NO    NO
 O090            0   0.10000E+01  295965.0 3932535.0   112.8     2.85   761.90    71.23     0.18    NO      NO    NO
 O120            0   0.10000E+01  295730.0 3931730.0   110.2     2.85   761.90    71.23     0.18    NO      NO    NO
 O150            0   0.10000E+01  295120.0 3931150.0   107.6     2.85   761.90    71.23     0.18    NO      NO    NO
 O180            0   0.10000E+01  294315.0 3930970.0   105.8     2.85   761.90    71.23     0.18    NO      NO    NO
 O210            0   0.10000E+01  293510.0 3931195.0   104.8     2.85   761.90    71.23     0.18    NO      NO    NO
 O240            0   0.10000E+01  292935.0 3931800.0   105.6     2.85   761.90    71.23     0.18    NO      NO    NO
 O270            0   0.10000E+01  292735.0 3932615.0   106.7     2.85   761.90    71.23     0.18    NO      NO    NO
 O300            0   0.10000E+01  292970.0 3933405.0   108.0     2.85   761.90    71.23     0.18    NO      NO    NO
 O330            0   0.10000E+01  293565.0 3933980.0   110.7     2.85   761.90    71.23     0.18    NO      NO    NO
 E_SW            0   0.10000E+01  294080.0 3932325.0   108.2     2.85   761.90    71.23     0.18    NO      NO    NO
 E_NW            0   0.10000E+01  294095.0 3932835.0   109.4     2.85   761.90    71.23     0.18    NO      NO    NO
 E_NE            0   0.10000E+01  294630.0 3932825.0   110.2     2.85   761.90    71.23     0.18    NO      NO    NO
 E_SE            0   0.10000E+01  294615.0 3932310.0   108.8     2.85   761.90    71.23     0.18    NO      NO    NO
 E_NNW           0   0.10000E+01  294310.0 3932890.0   110.0     2.85   761.90    71.23     0.18    NO      NO    NO
 E_NNE           0   0.10000E+01  294385.0 3932890.0   110.0     2.85   761.90    71.23     0.18    NO      NO    NO
 E_ENE           0   0.10000E+01  294685.0 3932610.0   109.6     2.85   761.90    71.23     0.18    NO      NO    NO
 E_ESE           0   0.10000E+01  294685.0 3932535.0   109.4     2.85   761.90    71.23     0.18    NO      NO    NO
 E_SSE           0   0.10000E+01  294300.0 3932260.0   108.2     2.85   761.90    71.23     0.18    NO      NO    NO
 E_SSW           0   0.10000E+01  294375.0 3932260.0   108.5     2.85   761.90    71.23     0.18    NO      NO    NO
 E_WSW           0   0.10000E+01  294020.0 3932540.0   108.5     2.85   761.90    71.23     0.18    NO      NO    NO
 E_WNW           0   0.10000E+01  294020.0 3932615.0   108.8     2.85   761.90    71.23     0.18    NO      NO    NO
 Q_NNW           0   0.10000E+01  294310.0 3933095.0   110.3     2.85   761.90    71.23     0.18    NO      NO    NO
 Q_NNE           0   0.10000E+01  294385.0 3933095.0   110.6     2.85   761.90    71.23     0.18    NO      NO    NO
 Q_ENE           0   0.10000E+01  294885.0 3932610.0   109.9     2.85   761.90    71.23     0.18    NO      NO    NO
 Q_ESE           0   0.10000E+01  294885.0 3932535.0   109.7     2.85   761.90    71.23     0.18    NO      NO    NO
 Q_SSE           0   0.10000E+01  294300.0 3932055.0   107.9     2.85   761.90    71.23     0.18    NO      NO    NO
 Q_SSW           0   0.10000E+01  294375.0 3932055.0   107.9     2.85   761.90    71.23     0.18    NO      NO    NO
 Q_WSW           0   0.10000E+01  293825.0 3932540.0   108.5     2.85   761.90    71.23     0.18    NO      NO    NO
 Q_WNW           0   0.10000E+01  293825.0 3932615.0   108.5     2.85   761.90    71.23     0.18    NO      NO    NO
 Q_NW            0   0.10000E+01  293960.0 3932985.0   109.4     2.85   761.90    71.23     0.18    NO      NO    NO
 Q_NE            0   0.10000E+01  294775.0 3932960.0   110.6     2.85   761.90    71.23     0.18    NO      NO    NO
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                    ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                       ***      14:12:10
                                                                                                                      PAGE   3
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*


                                          *** POINT SOURCE DATA ***

             NUMBER EMISSION RATE                    BASE     STACK   STACK    STACK     STACK    BLDG   URBAN  CAP/  EMIS RATE
   SOURCE     PART.  (GRAMS/SEC)     X        Y      ELEV.    HEIGHT  TEMP.   EXIT VEL. DIAMETER  EXISTS SOURCE HOR   SCALAR
     ID       CATS.               (METERS) (METERS) (METERS) (METERS) (DEG.K)  (M/SEC)  (METERS)                        VARY BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 Q_SE            0   0.10000E+01  294750.0 3932160.0   108.6     2.85   761.90    71.23     0.18    NO      NO    NO
 Q_SW            0   0.10000E+01  293925.0 3932190.0   107.8     2.85   761.90    71.23     0.18    NO      NO    NO
 H030            0   0.10000E+01  294775.0 3933255.0   111.5     2.85   761.90    71.23     0.18    NO      NO    NO
 H090            0   0.10000E+01  295155.0 3932555.0   110.3     2.85   761.90    71.23     0.18    NO      NO    NO
 H150            0   0.10000E+01  294735.0 3931865.0   107.9     2.85   761.90    71.23     0.18    NO      NO    NO
 H210            0   0.10000E+01  293925.0 3931885.0   107.0     2.85   761.90    71.23     0.18    NO      NO    NO
 H270            0   0.10000E+01  293545.0 3932600.0   108.1     2.85   761.90    71.23     0.18    NO      NO    NO
 H330            0   0.10000E+01  293955.0 3933275.0   110.0     2.85   761.90    71.23     0.18    NO      NO    NO
```

FF *** AERMOD - VERSION 14134 *** *** School EQHO 100515 *** 10/05/15
*** AERMET - VERSION 14134 *** *** *** 14:12:10
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**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** AREA SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	COORD (SW CORNER) X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	X-DIM OF AREA (METERS)	Y-DIM OF AREA (METERS)	ORIENT. OF AREA (DEG.)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
SH000	0	0.10000E-01	294370.0	3933385.0	111.0	0.00	10.00	10.00	0.00	0.00	NO	
SH060	0	0.10000E-01	295055.0	3932950.0	111.2	0.00	10.00	10.00	0.00	0.00	NO	
SH120	0	0.10000E-01	295035.0	3932150.0	109.1	0.00	10.00	10.00	0.00	0.00	NO	
SH180	0	0.10000E-01	294330.0	3931775.0	107.3	0.00	10.00	10.00	0.00	0.00	NO	
SH240	0	0.10000E-01	293650.0	3932190.0	107.3	0.00	10.00	10.00	0.00	0.00	NO	
SH300	0	0.10000E-01	293660.0	3932990.0	108.8	0.00	10.00	10.00	0.00	0.00	NO	
SO000	0	0.10000E-01	294390.0	3934185.0	113.0	0.00	10.00	10.00	0.00	0.00	NO	
SO030	0	0.10000E-01	295190.0	3933935.0	114.0	0.00	10.00	10.00	0.00	0.00	NO	
SO060	0	0.10000E-01	295765.0	3933340.0	113.4	0.00	10.00	10.00	0.00	0.00	NO	
SO090	0	0.10000E-01	295965.0	3932535.0	112.8	0.00	10.00	10.00	0.00	0.00	NO	
SO120	0	0.10000E-01	295730.0	3931730.0	110.2	0.00	10.00	10.00	0.00	0.00	NO	
SO150	0	0.10000E-01	295120.0	3931150.0	107.6	0.00	10.00	10.00	0.00	0.00	NO	
SO180	0	0.10000E-01	294315.0	3930970.0	105.8	0.00	10.00	10.00	0.00	0.00	NO	
SO210	0	0.10000E-01	293510.0	3931195.0	104.8	0.00	10.00	10.00	0.00	0.00	NO	
SO240	0	0.10000E-01	292935.0	3931800.0	105.6	0.00	10.00	10.00	0.00	0.00	NO	
SO270	0	0.10000E-01	292735.0	3932615.0	106.7	0.00	10.00	10.00	0.00	0.00	NO	
SO300	0	0.10000E-01	292970.0	3933405.0	108.0	0.00	10.00	10.00	0.00	0.00	NO	
SO330	0	0.10000E-01	293565.0	3933980.0	110.7	0.00	10.00	10.00	0.00	0.00	NO	
SE_SW	0	0.10000E-01	294080.0	3932325.0	108.2	0.00	10.00	10.00	0.00	0.00	NO	
SE_NW	0	0.10000E-01	294095.0	3932835.0	109.4	0.00	10.00	10.00	0.00	0.00	NO	
SE_NE	0	0.10000E-01	294630.0	3932825.0	110.2	0.00	10.00	10.00	0.00	0.00	NO	
SE_SE	0	0.10000E-01	294615.0	3932310.0	108.8	0.00	10.00	10.00	0.00	0.00	NO	
SE_NNW	0	0.10000E-01	294310.0	3932890.0	110.0	0.00	10.00	10.00	0.00	0.00	NO	
SE_NNE	0	0.10000E-01	294385.0	3932890.0	110.0	0.00	10.00	10.00	0.00	0.00	NO	
SE_ENE	0	0.10000E-01	294685.0	3932610.0	109.6	0.00	10.00	10.00	0.00	0.00	NO	
SE_ESE	0	0.10000E-01	294685.0	3932535.0	109.4	0.00	10.00	10.00	0.00	0.00	NO	
SE_SSE	0	0.10000E-01	294300.0	3932260.0	108.2	0.00	10.00	10.00	0.00	0.00	NO	
SE_SSW	0	0.10000E-01	294375.0	3932260.0	108.5	0.00	10.00	10.00	0.00	0.00	NO	
SE_WSW	0	0.10000E-01	294020.0	3932540.0	108.5	0.00	10.00	10.00	0.00	0.00	NO	
SE_WNW	0	0.10000E-01	294020.0	3932615.0	108.8	0.00	10.00	10.00	0.00	0.00	NO	
SQ_NNW	0	0.10000E-01	294310.0	3933095.0	110.3	0.00	10.00	10.00	0.00	0.00	NO	
SQ_NNE	0	0.10000E-01	294385.0	3933095.0	110.6	0.00	10.00	10.00	0.00	0.00	NO	
SQ_ENE	0	0.10000E-01	294885.0	3932610.0	109.9	0.00	10.00	10.00	0.00	0.00	NO	
SQ_ESE	0	0.10000E-01	294885.0	3932535.0	109.7	0.00	10.00	10.00	0.00	0.00	NO	
SQ_SSE	0	0.10000E-01	294300.0	3932055.0	107.9	0.00	10.00	10.00	0.00	0.00	NO	
SQ_SSW	0	0.10000E-01	294375.0	3932055.0	107.9	0.00	10.00	10.00	0.00	0.00	NO	
SQ_WSW	0	0.10000E-01	293825.0	3932540.0	108.5	0.00	10.00	10.00	0.00	0.00	NO	
SQ_WNW	0	0.10000E-01	293825.0	3932615.0	108.5	0.00	10.00	10.00	0.00	0.00	NO	
SQ_NW	0	0.10000E-01	293960.0	3932985.0	109.4	0.00	10.00	10.00	0.00	0.00	NO	
SQ_NE	0	0.10000E-01	294775.0	3932960.0	110.6	0.00	10.00	10.00	0.00	0.00	NO	

FF *** AERMOD - VERSION 14134 *** *** School EQHO 100515 *** 10/05/15
*** AERMET - VERSION 14134 *** *** *** 14:12:10
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**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** AREA SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	COORD (SW CORNER) X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	X-DIM OF AREA (METERS)	Y-DIM OF AREA (METERS)	ORIENT. OF AREA (DEG.)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
SQ_SE	0	0.10000E-01	294750.0	3932160.0	108.6	0.00	10.00	10.00	0.00	0.00	NO	
SQ_SW	0	0.10000E-01	293925.0	3932190.0	107.8	0.00	10.00	10.00	0.00	0.00	NO	
SH030	0	0.10000E-01	294775.0	3933255.0	111.5	0.00	10.00	10.00	0.00	0.00	NO	
SH090	0	0.10000E-01	295155.0	3932555.0	110.3	0.00	10.00	10.00	0.00	0.00	NO	
SH150	0	0.10000E-01	294735.0	3931865.0	107.9	0.00	10.00	10.00	0.00	0.00	NO	
SH210	0	0.10000E-01	293925.0	3931885.0	107.0	0.00	10.00	10.00	0.00	0.00	NO	
SH270	0	0.10000E-01	293545.0	3932600.0	108.1	0.00	10.00	10.00	0.00	0.00	NO	
SH330	0	0.10000E-01	293955.0	3933275.0	110.0	0.00	10.00	10.00	0.00	0.00	NO	

FF *** AERMOD - VERSION 14134 *** *** School EQHO 100515 *** 10/05/15
*** AERMET - VERSION 14134 *** *** *** 14:12:10
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 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*


                                      *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                          SOURCE IDs
 -----------                                          ----------

  H000       H000       ,

  H060       H060       ,

  H120       H120       ,

  H180       H180       ,

  H240       H240       ,

  H300       H300       ,

  0000       0000       ,

  0030       0030       ,

  0060       0060       ,

  0090       0090       ,

  0120       0120       ,

  0150       0150       ,

  0180       0180       ,

  0210       0210       ,

  0240       0240       ,

  0270       0270       ,

  0300       0300       ,

  0330       0330       ,

  SH000      SH000      ,

  SH060      SH060      ,
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                    ***        10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                        ***       14:12:10
                                                                                                       PAGE   7
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*


                                      *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                          SOURCE IDs
 -----------                                          ----------

  SH120      SH120      ,

  SH180      SH180      ,

  SH240      SH240      ,

  SH300      SH300      ,

  S0000      S0000      ,

  S0030      S0030      ,

  S0060      S0060      ,

  S0090      S0090      ,

  S0120      S0120      ,
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  SO150      SO150       ,

  SO180      SO180       ,

  SO210      SO210       ,

  SO240      SO240       ,

  SO270      SO270       ,

  SO300      SO300       ,

  SO330      SO330       ,

  E_SW       E_SW        ,

  E_NW       E_NW        ,

  E_NE       E_NE        ,

  E_SE       E_SE        ,
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                    ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                       ***       14:12:10
                                                                                                      PAGE   8
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*


                                     *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                          SOURCE IDs
 -----------                                          ----------


  SE_SW      SE_SW       ,

  SE_NW      SE_NW       ,

  SE_NE      SE_NE       ,

  SE_SE      SE_SE       ,

  E_NNW      E_NNW       ,

  E_NNE      E_NNE       ,

  E_ENE      E_ENE       ,

  E_ESE      E_ESE       ,

  E_SSE      E_SSE       ,

  E_SSW      E_SSW       ,

  E_WSW      E_WSW       ,

  E_WNW      E_WNW       ,

  SE_NNW     SE_NNW      ,

  SE_NNE     SE_NNE      ,

  SE_ENE     SE_ENE      ,

  SE_ESE     SE_ESE      ,

  SE_SSE     SE_SSE      ,

  SE_SSW     SE_SSW      ,

  SE_WSW     SE_WSW      ,

  SE_WNW     SE_WNW      ,
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                    ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                       ***       14:12:10
                                                                                                      PAGE   9
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
```

```
                                     *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                        SOURCE IDs
 -----------                                        ----------

  Q_NNW      Q_NNW       ,

  Q_NNE      Q_NNE       ,

  Q_ENE      Q_ENE       ,

  Q_ESE      Q_ESE       ,

  Q_SSE      Q_SSE       ,

  Q_SSW      Q_SSW       ,

  Q_WSW      Q_WSW       ,

  Q_WNW      Q_WNW       ,

  Q_NW       Q_NW        ,

  Q_NE       Q_NE        ,

  Q_SE       Q_SE        ,

  Q_SW       Q_SW        ,

  SQ_NNW     SQ_NNW      ,

  SQ_NNE     SQ_NNE      ,

  SQ_ENE     SQ_ENE      ,

  SQ_ESE     SQ_ESE      ,

  SQ_SSE     SQ_SSE      ,

  SQ_SSW     SQ_SSW      ,

  SQ_WSW     SQ_WSW      ,

  SQ_WNW     SQ_WNW      ,
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                    ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                        ***       14:12:10
                                                                                                       PAGE  10
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*


                                     *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                        SOURCE IDs
 -----------                                        ----------

  SQ_NW      SQ_NW       ,

  SQ_NE      SQ_NE       ,

  SQ_SE      SQ_SE       ,

  SQ_SW      SQ_SW       ,

  H030       H030        ,

  H090       H090        ,

  H150       H150        ,

  H210       H210        ,

  H270       H270        ,
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  H330       H330       ,

  SH030      SH030      ,

  SH090      SH090      ,

  SH150      SH150      ,

  SH210      SH210      ,

  SH270      SH270      ,

  SH330      SH330      ,
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                    ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                        ***       14:12:10
                                                                                                       PAGE  11
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                                    *** GRIDDED RECEPTOR NETWORK SUMMARY ***

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                       *** X-COORDINATES OF GRID ***
                                                 (METERS)

      294330.0,  294350.0,  294370.0,

                                       *** Y-COORDINATES OF GRID ***
                                                 (METERS)

     3932550.0, 3932570.0, 3932590.0,
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                    ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                        ***       14:12:10
                                                                                                       PAGE  12
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                            * ELEVATION HEIGHTS IN METERS *

    Y-COORD  |                                        X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |        109.10       109.10       109.10
  3932570.00 |        109.10       109.10       109.10
  3932550.00 |        109.10       109.10       109.10
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                    ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                        ***       14:12:10
                                                                                                       PAGE  13
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                            * HILL HEIGHT SCALES IN METERS *

    Y-COORD  |                                        X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |        109.10       109.10       109.10
  3932570.00 |        109.10       109.10       109.10
  3932550.00 |        109.10       109.10       109.10
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                    ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                        ***       14:12:10
                                                                                                       PAGE  14
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                                       *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                 (1=YES; 0=NO)

          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
```

```
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1

               NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.



                                *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
                                                (METERS/SEC)

                                             1.54,   3.09,   5.14,   8.23,  10.80,
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                    ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                       ***       14:12:10
                                                                                                                     PAGE  15
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                                  *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

   Surface file:   C:\LNM\ECS\Kern_EIR\Met\Downloaded_091115_USTAR\Wasco 07-11.SFC                  Met Version:  14134
   Profile file:   C:\LNM\ECS\Kern_EIR\Met\Downloaded_091115_USTAR\Wasco 07-11.PFL
   Surface format: FREE
   Profile format: FREE
   Surface station no.:    66666                 Upper air station no.:    66666
                 Name: UNKNOWN                                 Name: UNKNOWN
                 Year:   2007                                  Year:   2007

 First 24 hours of scalar data
 YR MO DY JDY HR     HO     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    ZO  BOWEN ALBEDO  REF WS   WD     HT  REF TA     HT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 07 01 01   1 01   -1.2  0.073 -9.000 -9.000 -999.   48.     29.1  0.08   0.72   1.00    0.50  311.   15.0  278.8    2.0
 07 01 01   1 02   -2.8  0.085 -9.000 -9.000 -999.   59.     19.5  0.08   0.72   1.00    1.00  308.   15.0  278.2    2.0
 07 01 01   1 03   -2.8  0.085 -9.000 -9.000 -999.   59.     19.5  0.08   0.72   1.00    1.00  314.   15.0  278.0    2.0
 07 01 01   1 04   -2.8  0.085 -9.000 -9.000 -999.   59.     19.5  0.08   0.72   1.00    1.00  313.   15.0  277.6    2.0
 07 01 01   1 05   -1.2  0.073 -9.000 -9.000 -999.   48.     29.2  0.08   0.72   1.00    0.50  303.   15.0  277.2    2.0
 07 01 01   1 06   -0.9  0.065 -9.000 -9.000 -999.   39.     25.8  0.02   0.72   1.00    0.50  252.   15.0  277.0    2.0
 07 01 01   1 07   -1.0  0.065 -9.000 -9.000 -999.   39.     25.8  0.02   0.72   1.00    0.50  245.   15.0  276.8    2.0
 07 01 01   1 08   -2.0  0.071 -9.000 -9.000 -999.   46.     16.3  0.02   0.72   0.61    1.00  243.   15.0  276.8    2.0
 07 01 01   1 09   14.3  0.095  0.291  0.007   62.   70.     -5.4  0.04   0.72   0.34    1.00  277.   15.0  278.2    2.0
 07 01 01   1 10   54.6  0.161  0.686  0.005  214.  155.     -6.9  0.08   0.72   0.25    1.50  301.   15.0  280.2    2.0
 07 01 01   1 11   83.5  0.168  0.978  0.005  405.  165.     -5.1  0.08   0.72   0.22    1.50  304.   15.0  281.2    2.0
 07 01 01   1 12   98.6  0.153  1.189  0.007  617.  144.     -3.3  0.04   0.72   0.21    1.50  296.   15.0  282.4    2.0
 07 01 01   1 13   99.0  0.171  1.257  0.008  726.  170.     -4.6  0.08   0.72   0.21    1.50  313.   15.0  283.2    2.0
 07 01 01   1 14   84.9  0.168  1.231  0.008  795.  166.     -5.1  0.08   0.72   0.22    1.50  329.   15.0  284.0    2.0
 07 01 01   1 15   56.6  0.166  1.096  0.008  839.  163.     -7.3  0.10   0.72   0.25    1.50  342.   15.0  284.4    2.0
 07 01 01   1 16   16.9  0.070  0.737  0.008  851.   50.     -1.9  0.10   0.72   0.34    0.50  334.   15.0  284.5    2.0
 07 01 01   1 17   -0.9  0.062 -9.000 -9.000 -999.   37.     24.9  0.02   0.72   0.60    0.50  161.   15.0  283.9    2.0
 07 01 01   1 18   -2.2  0.075 -9.000 -9.000 -999.   49.     16.9  0.02   0.72   1.00    1.00  157.   15.0  282.8    2.0
 07 01 01   1 19   -7.3  0.117 -9.000 -9.000 -999.   96.     19.6  0.02   0.72   1.00    2.10  174.   15.0  281.8    2.0
 07 01 01   1 20  -11.3  0.146 -9.000 -9.000 -999.  134.     24.8  0.02   0.72   1.00    2.60  177.   15.0  281.1    2.0
 07 01 01   1 21  -11.1  0.144 -9.000 -9.000 -999.  131.     24.2  0.02   0.72   1.00    2.60  190.   15.0  280.8    2.0
 07 01 01   1 22  -11.1  0.144 -9.000 -9.000 -999.  131.     24.2  0.02   0.72   1.00    2.60  202.   15.0  280.2    2.0
 07 01 01   1 23  -11.1  0.144 -9.000 -9.000 -999.  131.     24.2  0.02   0.72   1.00    2.60  210.   15.0  280.0    2.0
 07 01 01   1 24  -16.1  0.174 -9.000 -9.000 -999.  175.     29.7  0.02   0.72   1.00    3.10  220.   15.0  279.8    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 07 01 01 01   15.0 1  311.    0.50   278.8   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                    ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                       ***       14:12:10
                                                                                                                     PAGE  16
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                             *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: HOOO     ***
                                 INCLUDING SOURCE(S):     HOOO        ,

                                  *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3                         **

    Y-COORD  |                                            X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       0.88113      0.90099      0.92402
```

```
  3932570.00 |       0.86052      0.87933      0.90115
  3932550.00 |       0.84027      0.85813      0.87883
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***       14:12:10
                                                                                                              PAGE  17
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: H060     ***
                               INCLUDING SOURCE(S):     H060        ,

                                *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                     ** CONC OF OTHER    IN MICROGRAMS/M**3                       **

    Y-COORD  |                                          X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       0.20218      0.20876      0.21586
  3932570.00 |       0.20592      0.21279      0.22021
  3932550.00 |       0.20993      0.21709      0.22481
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***       14:12:10
                                                                                                              PAGE  18
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: H120     ***
                               INCLUDING SOURCE(S):     H120        ,

                                *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                     ** CONC OF OTHER    IN MICROGRAMS/M**3                       **

    Y-COORD  |                                          X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       0.34421      0.35817      0.37281
  3932570.00 |       0.33606      0.35008      0.36488
  3932550.00 |       0.32708      0.34107      0.35592
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***       14:12:10
                                                                                                              PAGE  19
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: H180     ***
                               INCLUDING SOURCE(S):     H180        ,

                                *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                     ** CONC OF OTHER    IN MICROGRAMS/M**3                       **

    Y-COORD  |                                          X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       0.18564      0.18137      0.17768
  3932570.00 |       0.18949      0.18505      0.18123
  3932550.00 |       0.19354      0.18893      0.18498
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***       14:12:10
                                                                                                              PAGE  20
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: H240     ***
                               INCLUDING SOURCE(S):     H240        ,

                                *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                     ** CONC OF OTHER    IN MICROGRAMS/M**3                       **

    Y-COORD  |                                          X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       0.27165      0.27318      0.27487
  3932570.00 |       0.28548      0.28743      0.28951
```

```
  3932550.00 |       0.30162      0.30402      0.30652
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***       14:12:10
                                                                                                              PAGE  21
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: H300     ***
                               INCLUDING SOURCE(S):     H300        ,

                                *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                     ** CONC OF OTHER    IN MICROGRAMS/M**3                       **

    Y-COORD  |                                          X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       1.60756      1.58141      1.55589
  3932570.00 |       1.58489      1.55992      1.53569
  3932550.00 |       1.56275      1.53859      1.51517
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***       14:12:10
                                                                                                              PAGE  22
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: O000     ***
                               INCLUDING SOURCE(S):     O000        ,

                                *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                     ** CONC OF OTHER    IN MICROGRAMS/M**3                       **

    Y-COORD  |                                          X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       0.41721      0.42057      0.42464
  3932570.00 |       0.41185      0.41512      0.41907
  3932550.00 |       0.40662      0.40980      0.41365
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***       14:12:10
                                                                                                              PAGE  23
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: O030     ***
                               INCLUDING SOURCE(S):     O030        ,

                                *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                     ** CONC OF OTHER    IN MICROGRAMS/M**3                       **

    Y-COORD  |                                          X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       0.26700      0.27254      0.27814
  3932570.00 |       0.26688      0.27228      0.27775
  3932550.00 |       0.26666      0.27193      0.27728
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***       14:12:10
                                                                                                              PAGE  24
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: O060     ***
                               INCLUDING SOURCE(S):     O060        ,

                                *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                     ** CONC OF OTHER    IN MICROGRAMS/M**3                       **

    Y-COORD  |                                          X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       0.11644      0.11836      0.12035
  3932570.00 |       0.11768      0.11965      0.12169
  3932550.00 |       0.11896      0.12097      0.12307
```

**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 0090 ***
INCLUDING SOURCE(S): 0090 ,

*** NETWORK ID: R20 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 294330.00	294350.00	294370.00
3932590.00	0.09481	0.09579	0.09680
3932570.00	0.09450	0.09547	0.09646
3932550.00	0.09424	0.09520	0.09619

**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 0120 ***
INCLUDING SOURCE(S): 0120 ,

*** NETWORK ID: R20 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 294330.00	294350.00	294370.00
3932590.00	0.18257	0.18587	0.18928
3932570.00	0.18092	0.18420	0.18760
3932550.00	0.17919	0.18246	0.18584

**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 0150 ***
INCLUDING SOURCE(S): 0150 ,

*** NETWORK ID: R20 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 294330.00	294350.00	294370.00
3932590.00	0.18059	0.17915	0.17771
3932570.00	0.18359	0.18210	0.18061
3932550.00	0.18671	0.18517	0.18362

**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 0180 ***
INCLUDING SOURCE(S): 0180 ,

*** NETWORK ID: R20 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 294330.00	294350.00	294370.00
3932590.00	0.10414	0.10286	0.10172
3932570.00	0.10518	0.10387	0.10270
3932550.00	0.10624	0.10490	0.10371

*** AERMET - VERSION 14134 ***   ***   ***   14:12:10
                                                                                                                 PAGE 29
**MODELOPTs: NonDFAULT CONC   FLAT and ELEV   BETA   ADJ_U*

                           *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: O210   ***
                               INCLUDING SOURCE(S):   O210   ,

                                *** NETWORK ID: R20   ; NETWORK TYPE: GRIDCART ***

                                     ** CONC OF OTHER   IN MICROGRAMS/M**3   **

   Y-COORD | X-COORD (METERS)
   (METERS) | 294330.00   294350.00   294370.00
- -

  3932590.00 | 0.09931   0.09940   0.09954
  3932570.00 | 0.10052   0.10064   0.10083
  3932550.00 | 0.10178   0.10195   0.10217
FF *** AERMOD - VERSION 14134 ***   *** School EQHO 100515   ***   10/05/15
*** AERMET - VERSION 14134 ***   ***   ***   14:12:10
                                                                                                                 PAGE 30
**MODELOPTs: NonDFAULT CONC   FLAT and ELEV   BETA   ADJ_U*

                           *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: O240   ***
                               INCLUDING SOURCE(S):   O240   ,

                                *** NETWORK ID: R20   ; NETWORK TYPE: GRIDCART ***

                                     ** CONC OF OTHER   IN MICROGRAMS/M**3   **

   Y-COORD | X-COORD (METERS)
   (METERS) | 294330.00   294350.00   294370.00
- -

  3932590.00 | 0.15956   0.15985   0.16016
  3932570.00 | 0.16320   0.16355   0.16391
  3932550.00 | 0.16713   0.16753   0.16794
FF *** AERMOD - VERSION 14134 ***   *** School EQHO 100515   ***   10/05/15
*** AERMET - VERSION 14134 ***   ***   ***   14:12:10
                                                                                                                 PAGE 31
**MODELOPTs: NonDFAULT CONC   FLAT and ELEV   BETA   ADJ_U*

                           *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: O270   ***
                               INCLUDING SOURCE(S):   O270   ,

                                *** NETWORK ID: R20   ; NETWORK TYPE: GRIDCART ***

                                     ** CONC OF OTHER   IN MICROGRAMS/M**3   **

   Y-COORD | X-COORD (METERS)
   (METERS) | 294330.00   294350.00   294370.00
- -

  3932590.00 | 0.58141   0.57382   0.56641
  3932570.00 | 0.59163   0.58377   0.57611
  3932550.00 | 0.60149   0.59338   0.58548
FF *** AERMOD - VERSION 14134 ***   *** School EQHO 100515   ***   10/05/15
*** AERMET - VERSION 14134 ***   ***   ***   14:12:10
                                                                                                                 PAGE 32
**MODELOPTs: NonDFAULT CONC   FLAT and ELEV   BETA   ADJ_U*

                           *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: O300   ***
                               INCLUDING SOURCE(S):   O300   ,

                                *** NETWORK ID: R20   ; NETWORK TYPE: GRIDCART ***

                                     ** CONC OF OTHER   IN MICROGRAMS/M**3   **

   Y-COORD | X-COORD (METERS)
   (METERS) | 294330.00   294350.00   294370.00
- -

  3932590.00 | 0.83429   0.82690   0.81958
  3932570.00 | 0.82688   0.81968   0.81257
  3932550.00 | 0.81951   0.81246   0.80552
FF *** AERMOD - VERSION 14134 ***   *** School EQHO 100515   ***   10/05/15
*** AERMET - VERSION 14134 ***   ***   ***   14:12:10

**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: O330 ***
INCLUDING SOURCE(S): O330 ,

*** NETWORK ID: R20 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 294330.00	294350.00	294370.00
3932590.00	0.73916	0.73760	0.73588
3932570.00	0.72896	0.72754	0.72597
3932550.00	0.71897	0.71767	0.71623

**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SH000 ***
INCLUDING SOURCE(S): SH000 ,

*** NETWORK ID: R20 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 294330.00	294350.00	294370.00
3932590.00	3.29650	3.23988	3.26352
3932570.00	3.14934	3.09747	3.12096
3932550.00	3.01245	2.96456	2.98765

**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SH060 ***
INCLUDING SOURCE(S): SH060 ,

*** NETWORK ID: R20 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 294330.00	294350.00	294370.00
3932590.00	1.52235	1.57894	1.63898
3932570.00	1.49106	1.54677	1.60968
3932550.00	1.46475	1.52388	1.58892

**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SH120 ***
INCLUDING SOURCE(S): SH120 ,

*** NETWORK ID: R20 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 294330.00	294350.00	294370.00
3932590.00	2.15829	2.23438	2.32255
3932570.00	2.21001	2.28512	2.36726
3932550.00	2.25518	2.34020	2.42457

```
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SH180    ***
                                INCLUDING SOURCE(S):     SH180       ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

    Y-COORD  |                                            X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       1.32074      1.29969      1.28379
  3932570.00 |       1.37757      1.35460      1.33794
  3932550.00 |       1.43846      1.41342      1.39606
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                    ***       14:12:10
                                                                                                                   PAGE  38
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SH240    ***
                                INCLUDING SOURCE(S):     SH240       ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

    Y-COORD  |                                            X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       2.24149      2.20087      2.15939
  3932570.00 |       2.36513      2.31799      2.27377
  3932550.00 |       2.49745      2.44875      2.40400
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                    ***       14:12:10
                                                                                                                   PAGE  39
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SH300    ***
                                INCLUDING SOURCE(S):     SH300       ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

    Y-COORD  |                                            X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       7.44682      7.27122      7.09905
  3932570.00 |       7.14856      6.97550      6.81593
  3932550.00 |       6.89130      6.71202      6.55108
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                    ***       14:12:10
                                                                                                                   PAGE  40
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SO000    ***
                                INCLUDING SOURCE(S):     SO000       ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

    Y-COORD  |                                            X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       0.95247      0.94034      0.93764
  3932570.00 |       0.93153      0.91983      0.91736
  3932550.00 |       0.91118      0.90021      0.89781
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                    ***       14:12:10
                                                                                                                   PAGE  41
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
```

```
                          *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SO030    ***
                              INCLUDING SOURCE(S):     SO030       ,

                               *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                    ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

   Y-COORD  |                                            X-COORD (METERS)
   (METERS) |     294330.00    294350.00    294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       0.91695      0.92982      0.94225
  3932570.00 |       0.90327      0.91499      0.92568
  3932550.00 |       0.88937      0.89977      0.90931
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***       14:12:10
                                                                                                              PAGE  42
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                          *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SO060    ***
                              INCLUDING SOURCE(S):     SO060       ,

                               *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                    ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

   Y-COORD  |                                            X-COORD (METERS)
   (METERS) |     294330.00    294350.00    294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       0.47599      0.48387      0.49249
  3932570.00 |       0.47033      0.47862      0.48718
  3932550.00 |       0.46527      0.47392      0.48345
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***       14:12:10
                                                                                                              PAGE  43
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                          *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SO090    ***
                              INCLUDING SOURCE(S):     SO090       ,

                               *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                    ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

   Y-COORD  |                                            X-COORD (METERS)
   (METERS) |     294330.00    294350.00    294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       0.55923      0.57031      0.58184
  3932570.00 |       0.56278      0.57410      0.58573
  3932550.00 |       0.56651      0.57776      0.58941
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***       14:12:10
                                                                                                              PAGE  44
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                          *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SO120    ***
                              INCLUDING SOURCE(S):     SO120       ,

                               *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                    ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

   Y-COORD  |                                            X-COORD (METERS)
   (METERS) |     294330.00    294350.00    294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       0.68971      0.69929      0.71010
  3932570.00 |       0.70182      0.71113      0.72112
  3932550.00 |       0.71529      0.72458      0.73360
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***       14:12:10
                                                                                                              PAGE  45
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
```

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SO150 ***
INCLUDING SOURCE(S): SO150 ,

*** NETWORK ID: R20 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 294330.00	294350.00	294370.00
3932590.00	0.58044	0.59182	0.60368
3932570.00	0.58849	0.59958	0.61152
3932550.00	0.59660	0.60733	0.61962

**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SO180 ***
INCLUDING SOURCE(S): SO180 ,

*** NETWORK ID: R20 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 294330.00	294350.00	294370.00
3932590.00	0.41638	0.41221	0.40833
3932570.00	0.42502	0.42076	0.41671
3932550.00	0.43391	0.42952	0.42540

**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SO210 ***
INCLUDING SOURCE(S): SO210 ,

*** NETWORK ID: R20 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 294330.00	294350.00	294370.00
3932590.00	0.37099	0.36314	0.35819
3932570.00	0.37502	0.36891	0.36545
3932550.00	0.38022	0.37575	0.37463

**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SO240 ***
INCLUDING SOURCE(S): SO240 ,

*** NETWORK ID: R20 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 294330.00	294350.00	294370.00
3932590.00	0.69571	0.68959	0.68384
3932570.00	0.71481	0.70856	0.70248
3932550.00	0.73485	0.72856	0.72263

**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SO270 ***

INCLUDING SOURCE(S): SO270 ,

*** NETWORK ID: R20 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 294330.00	294350.00	294370.00
3932590.00	1.58008	1.54725	1.51562
3932570.00	1.58465	1.55117	1.51913
3932550.00	1.60133	1.56694	1.53362

**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SO300 ***
INCLUDING SOURCE(S): SO300 ,

*** NETWORK ID: R20 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 294330.00	294350.00	294370.00
3932590.00	2.32255	2.29979	2.27856
3932570.00	2.26888	2.24732	2.22518
3932550.00	2.22137	2.19783	2.17679

**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SO330 ***
INCLUDING SOURCE(S): SO330 ,

*** NETWORK ID: R20 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 294330.00	294350.00	294370.00
3932590.00	1.93351	1.93193	1.93032
3932570.00	1.88896	1.88770	1.88844
3932550.00	1.84691	1.84697	1.84593

**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: E_SW ***
INCLUDING SOURCE(S): E_SW ,

*** NETWORK ID: R20 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 294330.00	294350.00	294370.00
3932590.00	0.42313	0.41452	0.40674
3932570.00	0.44732	0.43799	0.43003
3932550.00	0.47514	0.46551	0.45825

**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: E_NW ***
INCLUDING SOURCE(S): E_NW ,

```
                              *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                   ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

   Y-COORD  |                                          X-COORD (METERS)
   (METERS) |     294330.00    294350.00    294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       3.18215      3.04252      2.91897
  3932570.00 |       3.12228      2.99242      2.87341
  3932550.00 |       3.05454      2.93729      2.82647
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                             ***       14:12:10
                                                                                                             PAGE  54
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: E_NE     ***
                               INCLUDING SOURCE(S):     E_NE        ,

                              *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                   ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

   Y-COORD  |                                          X-COORD (METERS)
   (METERS) |     294330.00    294350.00    294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       0.53142      0.58291      0.64433
  3932570.00 |       0.55058      0.60463      0.66895
  3932550.00 |       0.57051      0.62692      0.69358
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                             ***       14:12:10
                                                                                                             PAGE  55
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: E_SE     ***
                               INCLUDING SOURCE(S):     E_SE        ,

                              *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                   ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

   Y-COORD  |                                          X-COORD (METERS)
   (METERS) |     294330.00    294350.00    294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       0.82085      0.84321      0.85436
  3932570.00 |       0.84153      0.87633      0.90108
  3932550.00 |       0.85270      0.90025      0.94041
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                             ***       14:12:10
                                                                                                             PAGE  56
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SE_SW    ***
                               INCLUDING SOURCE(S):     SE_SW       ,

                              *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                   ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

   Y-COORD  |                                          X-COORD (METERS)
   (METERS) |     294330.00    294350.00    294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       6.24065      6.04625      5.81850
  3932570.00 |       6.92271      6.63691      6.33963
  3932550.00 |       7.65713      7.28739      6.97394
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                             ***       14:12:10
                                                                                                             PAGE  57
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SE_NW    ***
                               INCLUDING SOURCE(S):     SE_NW       ,
```

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                                *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                    ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

   Y-COORD  |                                            X-COORD (METERS)
   (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |      28.73770     27.11307     25.46919
  3932570.00 |      26.33854     25.02939     23.73398
  3932550.00 |      24.19327     23.09042     22.03440
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***       14:12:10
                                                                                                              PAGE  58
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SE_NE    ***
                                INCLUDING SOURCE(S):     SE_NE       ,

                                *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                    ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

   Y-COORD  |                                            X-COORD (METERS)
   (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       6.33290      7.05739      7.88199
  3932570.00 |       6.26703      6.93266      7.72273
  3932550.00 |       6.15290      6.79472      7.60567
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***       14:12:10
                                                                                                              PAGE  59
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SE_SE    ***
                                INCLUDING SOURCE(S):     SE_SE       ,

                                *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                    ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

   Y-COORD  |                                            X-COORD (METERS)
   (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       7.62870      8.00967      8.36865
  3932570.00 |       8.22439      8.66012      9.12628
  3932550.00 |       8.81007      9.38015      9.93245
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***       14:12:10
                                                                                                              PAGE  60
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: E_NNW    ***
                                INCLUDING SOURCE(S):     E_NNW       ,

                                *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                    ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

   Y-COORD  |                                            X-COORD (METERS)
   (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       2.61141      2.82436      3.02325
  3932570.00 |       2.45566      2.64463      2.82474
  3932550.00 |       2.31431      2.48327      2.64741
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***       14:12:10
                                                                                                              PAGE  61
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: E_NNE    ***
                                INCLUDING SOURCE(S):     E_NNE       ,

                                *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***
```

```
                                  ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

   Y-COORD  |                                          X-COORD (METERS)
   (METERS) |     294330.00    294350.00    294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       1.95547      2.10363      2.26841
  3932570.00 |       1.87657      2.00766      2.15328
  3932550.00 |       1.80132      1.91732      2.04638
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                             ***      14:12:10
                                                                                                            PAGE  62
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: E_ENE    ***
                               INCLUDING SOURCE(S):     E_ENE       ,

                                    *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                  ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

   Y-COORD  |                                          X-COORD (METERS)
   (METERS) |     294330.00    294350.00    294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       0.40265      0.42887      0.45899
  3932570.00 |       0.39703      0.42265      0.45207
  3932550.00 |       0.39186      0.41697      0.44579
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                             ***      14:12:10
                                                                                                            PAGE  63
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: E_ESE    ***
                               INCLUDING SOURCE(S):     E_ESE       ,

                                    *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                  ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

   Y-COORD  |                                          X-COORD (METERS)
   (METERS) |     294330.00    294350.00    294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       0.42799      0.45735      0.49134
  3932570.00 |       0.42009      0.44814      0.48043
  3932550.00 |       0.41365      0.44094      0.47230
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                             ***      14:12:10
                                                                                                            PAGE  64
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: E_SSE    ***
                               INCLUDING SOURCE(S):     E_SSE       ,

                                    *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                  ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

   Y-COORD  |                                          X-COORD (METERS)
   (METERS) |     294330.00    294350.00    294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       0.44448      0.43477      0.42719
  3932570.00 |       0.47606      0.46550      0.45676
  3932550.00 |       0.51255      0.50094      0.49062
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                             ***      14:12:10
                                                                                                            PAGE  65
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: E_SSW    ***
                               INCLUDING SOURCE(S):     E_SSW       ,

                                    *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***
```

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                                  ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

   Y-COORD  |                                          X-COORD (METERS)
   (METERS) |     294330.00    294350.00    294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       0.50432      0.48904      0.47278
  3932570.00 |       0.53965      0.52366      0.50637
  3932550.00 |       0.58017      0.56339      0.54496
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***       14:12:10
                                                                                                              PAGE  66
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: E_WSW    ***
                               INCLUDING SOURCE(S):     E_WSW       ,

                                    *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                         ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

   Y-COORD  |                                          X-COORD (METERS)
   (METERS) |     294330.00    294350.00    294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       1.94498      1.88208      1.82240
  3932570.00 |       2.32047      2.21547      2.12011
  3932550.00 |       2.67438      2.52849      2.39890
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***       14:12:10
                                                                                                              PAGE  67
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: E_WNW    ***
                               INCLUDING SOURCE(S):     E_WNW       ,

                                    *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                         ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

   Y-COORD  |                                          X-COORD (METERS)
   (METERS) |     294330.00    294350.00    294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       3.14154      2.95041      2.78166
  3932570.00 |       3.29401      3.09848      2.92361
  3932550.00 |       3.36482      3.17894      3.00876
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***       14:12:10
                                                                                                              PAGE  68
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SE_NNW   ***
                               INCLUDING SOURCE(S):     SE_NNW      ,

                                    *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                         ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

   Y-COORD  |                                          X-COORD (METERS)
   (METERS) |     294330.00    294350.00    294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |      20.98119     23.55359     25.78517
  3932570.00 |      18.55953     20.76750     22.79152
  3932550.00 |      16.54050     18.45034     20.28213
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***       14:12:10
                                                                                                              PAGE  69
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SE_NNE   ***
                               INCLUDING SOURCE(S):     SE_NNE      ,

                                    *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                         ** CONC OF OTHER    IN MICROGRAMS/M**3                        **
```

```
   Y-COORD  |                                          X-COORD (METERS)
   (METERS) |     294330.00    294350.00    294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |      19.23026     19.34592     19.10166
  3932570.00 |      17.27719     17.24800     16.98550
  3932550.00 |      15.59776     15.47315     15.20668
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                    ***       14:12:10
                                                                                                                    PAGE  70
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SE_ENE   ***
                               INCLUDING SOURCE(S):     SE_ENE      ,

                                    *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                        ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

   Y-COORD  |                                          X-COORD (METERS)
   (METERS) |     294330.00    294350.00    294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       6.69603      7.36188      8.14436
  3932570.00 |       6.50478      7.15088      7.90630
  3932550.00 |       6.35439      6.97196      7.68381
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                    ***       14:12:10
                                                                                                                    PAGE  71
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SE_ESE   ***
                               INCLUDING SOURCE(S):     SE_ESE      ,

                                    *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                        ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

   Y-COORD  |                                          X-COORD (METERS)
   (METERS) |     294330.00    294350.00    294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       6.79196      7.44899      8.21414
  3932570.00 |       6.89442      7.58763      8.39567
  3932550.00 |       6.88591      7.58173      8.39684
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                    ***       14:12:10
                                                                                                                    PAGE  72
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SE_SSE   ***
                               INCLUDING SOURCE(S):     SE_SSE      ,

                                    *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                        ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

   Y-COORD  |                                          X-COORD (METERS)
   (METERS) |     294330.00    294350.00    294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       6.03632      6.05856      6.01108
  3932570.00 |       6.73405      6.75376      6.66887
  3932550.00 |       7.56903      7.58120      7.44254
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                    ***       14:12:10
                                                                                                                    PAGE  73
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SE_SSW   ***
                               INCLUDING SOURCE(S):     SE_SSW      ,

                                    *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                        ** CONC OF OTHER    IN MICROGRAMS/M**3                        **
```

```
   Y-COORD  |                                          X-COORD (METERS)
   (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       7.11925      6.77231      6.38246
  3932570.00 |       7.98426      7.59676      7.13532
  3932550.00 |       9.02462      8.59149      8.04197
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                    ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                        ***      14:12:10
                                                                                                      PAGE  74
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SE_WSW   ***
                               INCLUDING SOURCE(S):     SE_WSW      ,

                                    *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                         ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

   Y-COORD  |                                          X-COORD (METERS)
   (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |      21.62793     19.59424     17.84856
  3932570.00 |      23.64158     21.33054     19.36273
  3932550.00 |      25.52381     22.89268     20.67192
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                    ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                        ***      14:12:10
                                                                                                      PAGE  75
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SE_WNW   ***
                               INCLUDING SOURCE(S):     SE_WNW      ,

                                    *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                         ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

   Y-COORD  |                                          X-COORD (METERS)
   (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |      28.30980     25.21455     22.62253
  3932570.00 |      29.96209     26.67206     23.91790
  3932550.00 |      31.16336     27.70002     24.81835
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                    ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                        ***      14:12:10
                                                                                                      PAGE  76
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: Q_NNW    ***
                               INCLUDING SOURCE(S):     Q_NNW       ,

                                    *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                         ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

   Y-COORD  |                                          X-COORD (METERS)
   (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       1.54613      1.62336      1.70421
  3932570.00 |       1.48445      1.55577      1.63078
  3932550.00 |       1.42709      1.49311      1.56286
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                    ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                        ***      14:12:10
                                                                                                      PAGE  77
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: Q_NNE    ***
                               INCLUDING SOURCE(S):     Q_NNE       ,

                                    *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                         ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

   Y-COORD  |                                          X-COORD (METERS)
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    (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       1.31550      1.36555      1.42186
  3932570.00 |       1.27214      1.31807      1.36985
  3932550.00 |       1.23117      1.27342      1.32114
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                      ***       14:12:10
                                                                                                                      PAGE  78
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: Q_ENE    ***
                               INCLUDING SOURCE(S):     Q_ENE       ,

                                    *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                        ** CONC OF OTHER    IN MICROGRAMS/M**3                       **

    Y-COORD  |                                        X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       0.25228      0.26168      0.27178
  3932570.00 |       0.24986      0.25908      0.26899
  3932550.00 |       0.24760      0.25665      0.26638
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                      ***       14:12:10
                                                                                                                      PAGE  79
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: Q_ESE    ***
                               INCLUDING SOURCE(S):     Q_ESE       ,

                                    *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                        ** CONC OF OTHER    IN MICROGRAMS/M**3                       **

    Y-COORD  |                                        X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       0.26345      0.27356      0.28453
  3932570.00 |       0.26039      0.27030      0.28101
  3932550.00 |       0.25754      0.26726      0.27775
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                      ***       14:12:10
                                                                                                                      PAGE  80
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: Q_SSE    ***
                               INCLUDING SOURCE(S):     Q_SSE       ,

                                    *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                        ** CONC OF OTHER    IN MICROGRAMS/M**3                       **

    Y-COORD  |                                        X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       0.26907      0.26330      0.25927
  3932570.00 |       0.27899      0.27299      0.26884
  3932550.00 |       0.28985      0.28359      0.27929
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                      ***       14:12:10
                                                                                                                      PAGE  81
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: Q_SSW    ***
                               INCLUDING SOURCE(S):     Q_SSW       ,

                                    *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                        ** CONC OF OTHER    IN MICROGRAMS/M**3                       **

    Y-COORD  |                                        X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
```

```
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       0.30141      0.29206      0.28287
  3932570.00 |       0.31292      0.30314      0.29348
  3932550.00 |       0.32549      0.31525      0.30509
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                      ***      14:12:10
                                                                                                                     PAGE  82
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: Q_WSW    ***
                               INCLUDING SOURCE(S):     Q_WSW       ,

                                    *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                         ** CONC OF OTHER    IN MICROGRAMS/M**3                       **

    Y-COORD  |                                          X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       1.44437      1.40628      1.36950
  3932570.00 |       1.58667      1.53760      1.49086
  3932550.00 |       1.71944      1.66016      1.60418
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                      ***      14:12:10
                                                                                                                     PAGE  83
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: Q_WNW    ***
                               INCLUDING SOURCE(S):     Q_WNW       ,

                                    *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                         ** CONC OF OTHER    IN MICROGRAMS/M**3                       **

    Y-COORD  |                                          X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       1.91740      1.84401      1.77512
  3932570.00 |       2.00770      1.92890      1.85498
  3932550.00 |       2.08071      1.99851      1.92138
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                      ***      14:12:10
                                                                                                                     PAGE  84
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: Q_NW     ***
                               INCLUDING SOURCE(S):     Q_NW        ,

                                    *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                         ** CONC OF OTHER    IN MICROGRAMS/M**3                       **

    Y-COORD  |                                          X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       2.19953      2.14295      2.08862
  3932570.00 |       2.15759      2.10497      2.05384
  3932550.00 |       2.11384      2.06541      2.01796
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                      ***      14:12:10
                                                                                                                     PAGE  85
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: Q_NE     ***
                               INCLUDING SOURCE(S):     Q_NE        ,

                                    *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                         ** CONC OF OTHER    IN MICROGRAMS/M**3                       **

    Y-COORD  |                                          X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

```
  3932590.00 |       0.38268      0.40723      0.43496
  3932570.00 |       0.39280      0.41818      0.44683
  3932550.00 |       0.40292      0.42912      0.45863
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                      ***       14:12:10
                                                                                                                      PAGE  86
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: Q_SE     ***
                                INCLUDING SOURCE(S):     Q_SE        ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

    Y-COORD  |                                            X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       0.57440      0.58391      0.58976
  3932570.00 |       0.58545      0.59890      0.60900
  3932550.00 |       0.59379      0.61131      0.62586
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                      ***       14:12:10
                                                                                                                      PAGE  87
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: Q_SW     ***
                                INCLUDING SOURCE(S):     Q_SW        ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

    Y-COORD  |                                            X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       0.28229      0.27970      0.27732
  3932570.00 |       0.29202      0.28928      0.28686
  3932550.00 |       0.30265      0.29992      0.29766
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                      ***       14:12:10
                                                                                                                      PAGE  88
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SQ_NNW   ***
                                INCLUDING SOURCE(S):     SQ_NNW      ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

    Y-COORD  |                                            X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       7.84581      8.54281      9.36676
  3932570.00 |       7.29574      7.92399      8.67790
  3932550.00 |       6.80325      7.37171      8.06368
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                      ***       14:12:10
                                                                                                                      PAGE  89
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SQ_NNE   ***
                                INCLUDING SOURCE(S):     SQ_NNE      ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

    Y-COORD  |                                            X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

```
  3932590.00 |       7.77178      7.52984      7.38278
  3932570.00 |       7.24261      7.01090      6.87760
  3932550.00 |       6.76458      6.54696      6.42435
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***      14:12:10
                                                                                                             PAGE  90
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SQ_ENE   ***
                               INCLUDING SOURCE(S):     SQ_ENE      ,

                                *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                     ** CONC OF OTHER    IN MICROGRAMS/M**3                       **

    Y-COORD  |                                          X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       3.23051      3.42911      3.64744
  3932570.00 |       3.14919      3.34036      3.55240
  3932550.00 |       3.06638      3.25506      3.46252
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***      14:12:10
                                                                                                             PAGE  91
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SQ_ESE   ***
                               INCLUDING SOURCE(S):     SQ_ESE      ,

                                *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                     ** CONC OF OTHER    IN MICROGRAMS/M**3                       **

    Y-COORD  |                                          X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       3.29305      3.49691      3.72243
  3932570.00 |       3.29384      3.49995      3.72746
  3932550.00 |       3.28855      3.49368      3.72034
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***      14:12:10
                                                                                                             PAGE  92
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SQ_SSE   ***
                               INCLUDING SOURCE(S):     SQ_SSE      ,

                                *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                     ** CONC OF OTHER    IN MICROGRAMS/M**3                       **

    Y-COORD  |                                          X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       2.62536      2.61847      2.63601
  3932570.00 |       2.80130      2.79640      2.81485
  3932550.00 |       2.99686      2.99419      3.01335
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***      14:12:10
                                                                                                             PAGE  93
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SQ_SSW   ***
                               INCLUDING SOURCE(S):     SQ_SSW      ,

                                *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                     ** CONC OF OTHER    IN MICROGRAMS/M**3                       **

    Y-COORD  |                                          X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       2.93820      2.82535      2.73156
```

```
  3932570.00 |       3.14968      3.02396      2.91777
  3932550.00 |       3.38563      3.24519      3.12517
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***       14:12:10
                                                                                                              PAGE  94
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SQ_WSW   ***
                               INCLUDING SOURCE(S):     SQ_WSW      ,

                                    *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                         ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

    Y-COORD  |                                          X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       9.98475      9.39186      8.85627
  3932570.00 |      10.60000      9.94459      9.35244
  3932550.00 |      11.00421     10.29866      9.66213
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***       14:12:10
                                                                                                              PAGE  95
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SQ_WNW   ***
                               INCLUDING SOURCE(S):     SQ_WNW      ,

                                    *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                         ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

    Y-COORD  |                                          X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |      11.61735     10.83229     10.13348
  3932570.00 |      12.18576     11.35463     10.60366
  3932550.00 |      12.70334     11.83854     11.06273
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***       14:12:10
                                                                                                              PAGE  96
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SQ_NW    ***
                               INCLUDING SOURCE(S):     SQ_NW       ,

                                    *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                         ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

    Y-COORD  |                                          X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |      12.83552     12.43474     12.02094
  3932570.00 |      12.13172     11.78184     11.43459
  3932550.00 |      11.48492     11.16511     10.86255
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***       14:12:10
                                                                                                              PAGE  97
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SQ_NE    ***
                               INCLUDING SOURCE(S):     SQ_NE       ,

                                    *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                         ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

    Y-COORD  |                                          X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       3.24651      3.46634      3.69988
  3932570.00 |       3.20263      3.40483      3.62986
```

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  3932550.00 |       3.14540      3.34151      3.57296
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                     ***       14:12:10
                                                                                                                     PAGE  98
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SQ_SE    ***
                               INCLUDING SOURCE(S):     SQ_SE       ,

                                *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                     ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

    Y-COORD  |                                          X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       3.76177      3.88723      3.99504
  3932570.00 |       3.94640      4.08350      4.22471
  3932550.00 |       4.16125      4.29575      4.45130
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                     ***       14:12:10
                                                                                                                     PAGE  99
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SQ_SW    ***
                               INCLUDING SOURCE(S):     SQ_SW       ,

                                *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                     ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

    Y-COORD  |                                          X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       2.98893      2.92364      2.84883
  3932570.00 |       3.18429      3.09726      3.00435
  3932550.00 |       3.38290      3.27510      3.17494
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                     ***       14:12:10
                                                                                                                     PAGE 100
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: H030     ***
                               INCLUDING SOURCE(S):     H030        ,

                                *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                     ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

    Y-COORD  |                                          X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       0.49293      0.51686      0.54172
  3932570.00 |       0.49596      0.51911      0.54308
  3932550.00 |       0.49817      0.52059      0.54377
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                     ***       14:12:10
                                                                                                                     PAGE 101
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: H090     ***
                               INCLUDING SOURCE(S):     H090        ,

                                *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                     ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

    Y-COORD  |                                          X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       0.17610      0.18009      0.18426
  3932570.00 |       0.17477      0.17868      0.18278
  3932550.00 |       0.17356      0.17740      0.18143
```

FF *** AERMOD - VERSION 14134 ***   *** School EQHO 100515   ***   10/05/15
 *** AERMET - VERSION 14134 ***   ***   ***   14:12:10
                                                                                                                      PAGE 102
 **MODELOPTs: NonDFAULT CONC   FLAT and ELEV   BETA   ADJ_U*

                            *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: H150   ***
                                INCLUDING SOURCE(S):   H150   ,

                                 *** NETWORK ID: R20   ; NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER   IN MICROGRAMS/M**3   **

    Y-COORD | X-COORD (METERS)
    (METERS) | 294330.00   294350.00   294370.00
 -

  3932590.00 | 0.32444   0.31679   0.30925
  3932570.00 | 0.33644   0.32829   0.32018
  3932550.00 | 0.34932   0.34071   0.33205
FF *** AERMOD - VERSION 14134 ***   *** School EQHO 100515   ***   10/05/15
 *** AERMET - VERSION 14134 ***   ***   ***   14:12:10
                                                                                                                      PAGE 103
 **MODELOPTs: NonDFAULT CONC   FLAT and ELEV   BETA   ADJ_U*

                            *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: H210   ***
                                INCLUDING SOURCE(S):   H210   ,

                                 *** NETWORK ID: R20   ; NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER   IN MICROGRAMS/M**3   **

    Y-COORD | X-COORD (METERS)
    (METERS) | 294330.00   294350.00   294370.00
 -

  3932590.00 | 0.17835   0.17816   0.17825
  3932570.00 | 0.18252   0.18246   0.18265
  3932550.00 | 0.18701   0.18707   0.18734
FF *** AERMOD - VERSION 14134 ***   *** School EQHO 100515   ***   10/05/15
 *** AERMET - VERSION 14134 ***   ***   ***   14:12:10
                                                                                                                      PAGE 104
 **MODELOPTs: NonDFAULT CONC   FLAT and ELEV   BETA   ADJ_U*

                            *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: H270   ***
                                INCLUDING SOURCE(S):   H270   ,

                                 *** NETWORK ID: R20   ; NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER   IN MICROGRAMS/M**3   **

    Y-COORD | X-COORD (METERS)
    (METERS) | 294330.00   294350.00   294370.00
 -

  3932590.00 | 1.18586   1.15699   1.12949
  3932570.00 | 1.23094   1.19992   1.17039
  3932550.00 | 1.27203   1.23917   1.20791
FF *** AERMOD - VERSION 14134 ***   *** School EQHO 100515   ***   10/05/15
 *** AERMET - VERSION 14134 ***   ***   ***   14:12:10
                                                                                                                      PAGE 105
 **MODELOPTs: NonDFAULT CONC   FLAT and ELEV   BETA   ADJ_U*

                            *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: H330   ***
                                INCLUDING SOURCE(S):   H330   ,

                                 *** NETWORK ID: R20   ; NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER   IN MICROGRAMS/M**3   **

    Y-COORD | X-COORD (METERS)
    (METERS) | 294330.00   294350.00   294370.00
 -

  3932590.00 | 1.53835   1.52864   1.51736
  3932570.00 | 1.50086   1.49285   1.48310
  3932550.00 | 1.46432   1.45752   1.44904
FF *** AERMOD - VERSION 14134 ***   *** School EQHO 100515   ***   10/05/15

```
 *** AERMET - VERSION  14134 ***   ***                                                    ***       14:12:10
                                                                                                   PAGE 106
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SH030    ***
                               INCLUDING SOURCE(S):     SH030       ,

                                *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                     ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

    Y-COORD  |                                          X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       2.82165      2.93351      3.03306
  3932570.00 |       2.75686      2.85248      2.93805
  3932550.00 |       2.68685      2.76861      2.84263
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                    ***       14:12:10
                                                                                                   PAGE 107
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SH090    ***
                               INCLUDING SOURCE(S):     SH090       ,

                                *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                     ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

    Y-COORD  |                                          X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       1.71372      1.78347      1.86000
  3932570.00 |       1.71566      1.78639      1.86256
  3932550.00 |       1.71254      1.78322      1.85856
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                    ***       14:12:10
                                                                                                   PAGE 108
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SH150    ***
                               INCLUDING SOURCE(S):     SH150       ,

                                *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                     ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

    Y-COORD  |                                          X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       1.82443      1.88420      1.94520
  3932570.00 |       1.88099      1.94061      2.00588
  3932550.00 |       1.94446      2.00136      2.06919
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                    ***       14:12:10
                                                                                                   PAGE 109
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SH210    ***
                               INCLUDING SOURCE(S):     SH210       ,

                                *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                     ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

    Y-COORD  |                                          X-COORD (METERS)
    (METERS) |     294330.00    294350.00    294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3932590.00 |       1.21050      1.17262      1.15333
  3932570.00 |       1.24674      1.21738      1.21078
  3932550.00 |       1.29052      1.27408      1.28158
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                    ***       14:12:10
```

**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SH270 ***
INCLUDING SOURCE(S): SH270 ,

*** NETWORK ID: R20 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 294330.00	294350.00	294370.00
3932590.00	5.25282	5.03021	4.82319
3932570.00	5.35076	5.11904	4.90458
3932550.00	5.52496	5.28091	5.05442

**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SH330 ***
INCLUDING SOURCE(S): SH330 ,

*** NETWORK ID: R20 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 294330.00	294350.00	294370.00
3932590.00	6.19803	6.16004	6.11776
3932570.00	5.92540	5.89023	5.85572
3932550.00	5.67358	5.63884	5.60791

**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: H000 ***
INCLUDING SOURCE(S): H000 ,

*** NETWORK ID: R20 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 294330.00	294350.00	294370.00
3932590.0	22.67749 (08010918)	22.89579 (08010218)	23.29283 (08120206)
3932570.0	22.28105 (08010918)	22.67366 (08120206)	23.11486 (08120206)
3932550.0	22.10406 (08031219)	22.50642 (08120206)	22.92628 (08120206)

**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: H060 ***
INCLUDING SOURCE(S): H060 ,

*** NETWORK ID: R20 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 294330.00	294350.00	294370.00
3932590.0	23.92160 (10011303)	24.26022 (10011303)	24.33519 (10011303)
3932570.0	23.77450 (10011303)	23.62956 (10011303)	23.75494 (11012618)
3932550.0	23.09800 (11012618)	23.27453 (11012618)	23.18171 (11012618)

```
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  H120     ***
                                INCLUDING SOURCE(S):     H120        ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00             294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |     28.84540 (09010209)     28.90926 (09010209)     28.87099 (09010209)
 3932570.0 |     29.33505 (09010209)     29.55630 (09010209)     29.89101 (07022608)
 3932550.0 |     29.58291 (09010209)     29.96235 (09010209)     30.25501 (09010209)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                    ***      14:12:10
                                                                                                                   PAGE 115
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  H180     ***
                                INCLUDING SOURCE(S):     H180        ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00             294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |     26.52370 (08012417)     25.94760 (11011922)     25.76697 (09021823)
 3932570.0 |     27.10681 (08012417)     26.33086 (11011922)     26.11873 (09021823)
 3932550.0 |     27.70365 (08012417)     26.98784 (09121218)     26.46367 (09021823)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                    ***      14:12:10
                                                                                                                   PAGE 116
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  H240     ***
                                INCLUDING SOURCE(S):     H240        ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00             294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |     27.02943 (11020901)     26.96300 (11120123)     26.67751 (11120123)
 3932570.0 |     27.92534 (11120123)     27.34558 (11120123)     26.44835 (11120123)
 3932550.0 |     27.76645 (11120123)     26.60703 (11020203)     26.42182 (11120204)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                    ***      14:12:10
                                                                                                                   PAGE 117
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  H300     ***
                                INCLUDING SOURCE(S):     H300        ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00             294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |     25.16457 (07122409)     25.07835 (07122409)     25.08821 (08021606)
 3932570.0 |     24.50284 (07122618)     24.56525 (09122901)     24.44535 (07122409)
 3932550.0 |     24.58554 (11010604)     24.41064 (11010604)     24.19258 (09122901)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                    ***      14:12:10
                                                                                                                   PAGE 118
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
```

```
                          *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  0000     ***
                              INCLUDING SOURCE(S):     0000        ,

                               *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                    ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |     16.49488 (11011103)     16.59305 (11012718)     16.62202 (11012718)
 3932570.0 |     16.36910 (11011103)     16.48074 (11012718)     16.50475 (11012718)
 3932550.0 |     16.24329 (11011103)     16.36818 (11012718)     16.38749 (11012718)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                      ***       14:12:10
                                                                                                                      PAGE 119
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                          *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  0030     ***
                              INCLUDING SOURCE(S):     0030        ,

                               *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                    ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |     16.89159 (10121119)     16.95284 (09013002)     16.87691 (09013002)
 3932570.0 |     16.83391 (09013002)     16.84307 (09013002)     16.74778 (09012618)
 3932550.0 |     16.77308 (09013002)     16.65263 (09013002)     16.76596 (11121802)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                      ***       14:12:10
                                                                                                                      PAGE 120
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                          *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  0060     ***
                              INCLUDING SOURCE(S):     0060        ,

                               *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                    ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |     16.52605 (09043019)     16.73340 (08120918)     16.97919 (08120918)
 3932570.0 |     16.87922 (08120918)     17.05843 (08120918)     17.15488 (08120918)
 3932550.0 |     17.07280 (08120918)     17.10290 (08120918)     17.04448 (08120918)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                      ***       14:12:10
                                                                                                                      PAGE 121
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                          *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  0090     ***
                              INCLUDING SOURCE(S):     0090        ,

                               *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                    ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |     17.25269 (09042402)     17.31545 (09042402)     17.37599 (09042402)
 3932570.0 |     17.05843 (09042402)     17.12808 (09042402)     17.19593 (09042402)
 3932550.0 |     17.34057 (11120601)     17.43958 (11120601)     17.53772 (11120601)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                      ***       14:12:10
                                                                                                                      PAGE 122
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
```

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                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  O120     ***
                                INCLUDING SOURCE(S):     O120        ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |     18.49892 (10031923)     18.35355 (10031923)     18.15777 (09010209)
 3932570.0 |     18.65294 (10031923)     18.67142 (10031923)     18.58513 (10031923)
 3932550.0 |     18.53431 (10031923)     18.71685 (10031923)     18.79987 (10031923)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                     ***      14:12:10
                                                                                                                    PAGE 123
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  O150     ***
                                INCLUDING SOURCE(S):     O150        ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |     19.35737 (09122922)     19.44228 (07010623)     19.39708 (07010623)
 3932570.0 |     19.47651 (09122922)     19.44958 (07010623)     19.58499 (07010623)
 3932550.0 |     19.49166 (09122922)     19.61082 (09122922)     19.67611 (07010623)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                     ***      14:12:10
                                                                                                                    PAGE 124
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  O180     ***
                                INCLUDING SOURCE(S):     O180        ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |     18.93360 (11021523)     18.36632 (11021523)     18.77442 (10022607)
 3932570.0 |     19.02089 (11021523)     18.43961 (11021523)     18.89020 (10022607)
 3932550.0 |     19.10661 (11021523)     18.51089 (11021523)     19.00467 (10022607)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                     ***      14:12:10
                                                                                                                    PAGE 125
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  O210     ***
                                INCLUDING SOURCE(S):     O210        ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |     19.06044 (07010123)     18.58718 (07010123)     18.22517 (07032804)
 3932570.0 |     18.92243 (07010123)     18.49166 (07032804)     18.08983 (07032804)
 3932550.0 |     18.71744 (07032804)     18.41885 (07032804)     18.12085 (10032723)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                     ***      14:12:10
                                                                                                                    PAGE 126
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  O240     ***
```

INCLUDING SOURCE(S): O240 ,

*** NETWORK ID: R20 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	294330.00	294350.00	294370.00
3932590.0	19.33069 (07121106)	19.03910 (07121106)	18.64187 (07121106)
3932570.0	18.89791 (07121106)	18.53310 (07040603)	18.31516 (07040603)
3932550.0	18.40791 (07040603)	18.24825 (09042103)	18.45720 (09042103)

**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: O270 ***
INCLUDING SOURCE(S): O270 ,

*** NETWORK ID: R20 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	294330.00	294350.00	294370.00
3932590.0	18.69733 (11010405)	18.64399 (11010405)	18.58832 (11010405)
3932570.0	18.79690 (09022007)	18.73593 (09022007)	18.67254 (09022007)
3932550.0	18.81000 (09022007)	18.76318 (09022007)	18.71331 (09022007)

**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: O300 ***
INCLUDING SOURCE(S): O300 ,

*** NETWORK ID: R20 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	294330.00	294350.00	294370.00
3932590.0	18.59181 (09013104)	18.42767 (09013104)	18.58256 (08021905)
3932570.0	18.47405 (11010605)	18.40899 (09013104)	18.29862 (09013104)
3932550.0	18.46031 (11010605)	18.34581 (11010605)	18.19271 (09013104)

**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: O330 ***
INCLUDING SOURCE(S): O330 ,

*** NETWORK ID: R20 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	294330.00	294350.00	294370.00
3932590.0	17.37662 (08021823)	17.49660 (09011009)	17.76719 (09011009)
3932570.0	17.37578 (08021823)	17.13175 (09011009)	17.42633 (09011009)
3932550.0	17.31430 (08021823)	17.11033 (08021823)	17.07824 (09011009)

**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SH000 ***
INCLUDING SOURCE(S): SH000 ,

```
                              *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                   ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                            X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |    335.50036 (09010617)    351.01527 (09010617)    408.46302 (08111908)
 3932570.0 |    325.34567 (09010617)    339.14219 (09010617)    394.34041 (08111908)
 3932550.0 |    316.06912 (09010617)    327.94009 (09010617)    381.00226 (08111908)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***        10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                    ***       14:12:10
                                                                                                                   PAGE 131
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SH060    ***
                                 INCLUDING SOURCE(S):     SH060       ,

                              *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                   ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                            X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |    527.10253 (11021408)    516.87222 (11021408)    516.62444 (09121108)
 3932570.0 |    478.28089 (09121108)    491.03416 (09121108)    491.24430 (09121108)
 3932550.0 |    458.77528 (09121108)    450.58051 (09121108)    452.59416 (11010123)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***        10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                    ***       14:12:10
                                                                                                                   PAGE 132
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SH120    ***
                                 INCLUDING SOURCE(S):     SH120       ,

                              *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                   ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                            X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |    577.47792 (10021208)    599.99574 (10021208)    589.81003 (10021208)
 3932570.0 |    565.05502 (10012524)    584.35500 (10021208)    629.06590 (10021208)
 3932550.0 |    571.25428 (08122201)    593.22246 (10012524)    605.15836 (10012524)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***        10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                    ***       14:12:10
                                                                                                                   PAGE 133
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SH180    ***
                                 INCLUDING SOURCE(S):     SH180       ,

                              *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                   ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                            X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |    589.61179 (08122203)    548.48733 (11032218)    664.92623 (11032218)
 3932570.0 |    610.79816 (08122203)    573.03944 (11032218)    693.15408 (11032218)
 3932550.0 |    633.30040 (08122203)    599.02760 (11032218)    723.16441 (11032218)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***        10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                    ***       14:12:10
                                                                                                                   PAGE 134
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SH240    ***
                                 INCLUDING SOURCE(S):     SH240       ,
```

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                                *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                    ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                            X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |    612.23397 (08022305)    637.27157 (08022305)    629.95936 (08022305)
 3932570.0 |    680.56357 (08022305)    646.54327 (08022305)    602.93188 (11032707)
 3932550.0 |    653.35874 (11032707)    630.43323 (07092307)    605.63234 (07092307)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                    ***      14:12:10
                                                                                                                   PAGE 135
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SH300    ***
                                 INCLUDING SOURCE(S):     SH300       ,

                                *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                    ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                            X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |    652.42185 (11012817)    632.58022 (11012817)    597.03984 (09040207)
 3932570.0 |    601.57566 (11012817)    612.98376 (11012817)    605.66298 (11012817)
 3932550.0 |    510.93503 (11012817)    548.74121 (11012817)    570.54689 (11012817)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                    ***      14:12:10
                                                                                                                   PAGE 136
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SO000    ***
                                 INCLUDING SOURCE(S):     SO000       ,

                                *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                    ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                            X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |    134.85113 (09090907)    134.74669 (09010617)    130.68640 (08111908)
 3932570.0 |    132.65089 (09010617)    132.41336 (09010617)    128.47772 (08111908)
 3932550.0 |    130.51987 (09010617)    130.14750 (09010617)    126.33026 (08111908)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                    ***      14:12:10
                                                                                                                   PAGE 137
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SO030    ***
                                 INCLUDING SOURCE(S):     SO030       ,

                                *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                    ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                            X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |    235.78202 (09020709)    209.22564 (09020709)    177.90640 (09020709)
 3932570.0 |    217.36324 (09020709)    188.15358 (09020709)    164.27293 (08011024)
 3932550.0 |    197.21647 (09020709)    165.80300 (09020709)    163.54679 (07110408)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                    ***      14:12:10
                                                                                                                   PAGE 138
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SO060    ***
                                 INCLUDING SOURCE(S):     SO060       ,

                                *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***
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                                   ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                            X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |    187.60999 (09121108)    191.04481 (09121108)    193.32014 (09121108)
 3932570.0 |    186.33034 (09121108)    187.15680 (09121108)    185.74449 (09121108)
 3932550.0 |    179.50707 (09121108)    177.56775 (09121108)    172.90323 (09121108)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                     ***      14:12:10
                                                                                                                    PAGE 139
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SO090    ***
                                  INCLUDING SOURCE(S):     SO090       ,

                                   *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                   ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                            X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |    266.17179 (11012917)    269.90963 (11012917)    273.75180 (11012917)
 3932570.0 |    296.49951 (11012917)    301.32953 (11012917)    305.99274 (11012917)
 3932550.0 |    311.12811 (11012917)    316.36872 (11012917)    321.76440 (11012917)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                     ***      14:12:10
                                                                                                                    PAGE 140
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SO120    ***
                                  INCLUDING SOURCE(S):     SO120       ,

                                   *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                   ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                            X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |    221.69235 (10021208)    231.59373 (10021208)    236.21389 (10021208)
 3932570.0 |    212.64764 (10012524)    221.01038 (10021208)    233.34865 (10021208)
 3932550.0 |    222.68280 (10012524)    222.68958 (10012524)    218.61749 (10012524)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                     ***      14:12:10
                                                                                                                    PAGE 141
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SO150    ***
                                  INCLUDING SOURCE(S):     SO150       ,

                                   *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                   ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                            X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |    215.35351 (07121802)    191.80469 (07121802)    188.33212 (10122017)
 3932570.0 |    228.08418 (07121802)    210.04600 (07121802)    192.00103 (10122017)
 3932550.0 |    238.04801 (07121802)    226.28559 (07121802)    202.48705 (07121802)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                     ***      14:12:10
                                                                                                                    PAGE 142
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SO180    ***
                                  INCLUDING SOURCE(S):     SO180       ,

                                   *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***
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                                    ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                            X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |    211.77817 (08022101)    196.78451 (08022101)    219.18012 (11032218)
 3932570.0 |    215.34806 (08022101)    199.94509 (08022101)    224.19372 (11032218)
 3932550.0 |    219.02501 (08022101)    203.19908 (08022101)    229.36083 (11032218)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                    ***      14:12:10
                                                                                                                  PAGE 143
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SO210    ***
                                 INCLUDING SOURCE(S):     SO210       ,

                                  *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                            X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |    213.38137 (10033003)    199.28969 (10033003)    176.52014 (10033003)
 3932570.0 |    210.02766 (10033003)    190.29694 (10033003)    168.45144 (11021623)
 3932550.0 |    203.49363 (10033003)    177.73725 (10033003)    175.97112 (10020724)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                    ***      14:12:10
                                                                                                                  PAGE 144
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SO240    ***
                                 INCLUDING SOURCE(S):     SO240       ,

                                  *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                            X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |    247.38706 (08022305)    247.26241 (08022305)    242.97815 (08022305)
 3932570.0 |    252.76945 (08022305)    244.57779 (08022305)    232.76996 (08022305)
 3932550.0 |    243.43333 (08022305)    237.32527 (11032707)    231.78024 (08110708)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                    ***      14:12:10
                                                                                                                  PAGE 145
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SO270    ***
                                 INCLUDING SOURCE(S):     SO270       ,

                                  *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                            X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |    171.37297 (08032707)    168.45818 (08032707)    165.62818 (08032707)
 3932570.0 |    186.83826 (09022703)    182.42365 (09022703)    178.14213 (09022703)
 3932550.0 |    201.68415 (09022703)    197.84975 (09022703)    194.12796 (09022703)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                    ***      14:12:10
                                                                                                                  PAGE 146
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SO300    ***
                                 INCLUDING SOURCE(S):     SO300       ,

                                  *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3                        **
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  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |    246.29478 (11012817)    242.66186 (11012817)    237.00321 (11012817)
 3932570.0 |    237.93850 (11012817)    239.31615 (11012817)    237.18454 (11012817)
 3932550.0 |    223.60361 (11012817)    228.76315 (11012817)    231.43021 (11012817)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                      ***      14:12:10
                                                                                                                     PAGE 147
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SO330    ***
                                INCLUDING SOURCE(S):     SO330       ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |    338.03836 (08022608)    312.92017 (08022608)    274.75533 (08022608)
 3932570.0 |    341.51876 (08022608)    325.58160 (08022608)    294.69400 (08022608)
 3932550.0 |    339.81749 (08022608)    332.77665 (08022608)    310.08002 (08022608)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                      ***      14:12:10
                                                                                                                     PAGE 148
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  E_SW     ***
                                INCLUDING SOURCE(S):     E_SW        ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |     47.65118 (10011817)     54.27126 (10011817)     56.36246 (10011817)
 3932570.0 |     60.64019 (10011817)     62.86428 (10011817)     59.87979 (10011817)
 3932550.0 |     70.47918 (10011817)     66.14630 (10011817)     57.56163 (10011817)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                      ***      14:12:10
                                                                                                                     PAGE 149
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  E_NW     ***
                                INCLUDING SOURCE(S):     E_NW        ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |     57.74229 (10122924)     54.62256 (11022619)     51.83801 (07021306)
 3932570.0 |     54.01380 (09020918)     52.07230 (10122924)     49.73178 (11022620)
 3932550.0 |     51.39612 (10122922)     48.94367 (09020918)     47.93731 (10122920)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                      ***      14:12:10
                                                                                                                     PAGE 150
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  E_NE     ***
                                INCLUDING SOURCE(S):     E_NE        ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **
```

```
  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |     41.83246 (09041920)     46.46705 (09041920)     49.94506 (09041920)
 3932570.0 |     42.51378 (10032719)     45.08166 (09041920)     46.70729 (08041119)
 3932550.0 |     41.60276 (10032719)     43.39554 (08041119)     44.98131 (09041919)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                      ***      14:12:10
                                                                                                                     PAGE 151
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  E_SE     ***
                                 INCLUDING SOURCE(S):     E_SE        ,

                                  *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3                       **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |     58.09317 (10122124)     58.84184 (08010407)     61.74134 (08012521)
 3932570.0 |     59.44645 (09021507)     63.24101 (10122124)     65.10005 (08010407)
 3932550.0 |     62.39192 (09021507)     65.43157 (08012601)     69.04767 (08012619)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                      ***      14:12:10
                                                                                                                     PAGE 152
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SE_SW    ***
                                 INCLUDING SOURCE(S):     SE_SW       ,

                                  *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3                       **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |   1767.83371 (09040107)   1600.81023 (10042203)   1502.47925 (08021708)
 3932570.0 |   1787.97716 (10042203)   1729.69019 (08021708)   1928.11605 (08021708)
 3932550.0 |   2009.43098 (08021708)   2179.92188 (08021708)   2001.10270 (08021708)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                      ***      14:12:10
                                                                                                                     PAGE 153
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SE_NW    ***
                                 INCLUDING SOURCE(S):     SE_NW       ,

                                  *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3                       **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |   1423.85664 (11061806)   1467.46666 (11061806)   1506.12813 (07040307)
 3932570.0 |   1319.19678 (09092307)   1285.83748 (11061806)   1318.38743 (11061806)
 3932550.0 |   1462.84471 (09092307)   1139.49792 (09022701)   1169.06903 (11061806)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                      ***      14:12:10
                                                                                                                     PAGE 154
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SE_NE    ***
                                 INCLUDING SOURCE(S):     SE_NE       ,

                                  *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3                       **

  Y-COORD  |                                          X-COORD (METERS)
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```
  (METERS) |       294330.00              294350.00              294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |   1280.14054 (10060406)   1540.38113 (10060406)   1616.64664 (10060406)
 3932570.0 |   1403.84451 (10060406)   1439.23415 (10060406)   1326.02652 (09092807)
 3932550.0 |   1289.98377 (10060406)   1198.07937 (09092807)   1215.40983 (09092807)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                     ***      14:12:10
                                                                                                                    PAGE 155
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SE_SE    ***
                                INCLUDING SOURCE(S):     SE_SE       ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |   1545.24346 (09022607)   1345.49789 (09022607)   1550.53849 (09031718)
 3932570.0 |   1526.37976 (07120208)   1715.10321 (09022607)   1498.89135 (09022607)
 3932550.0 |   1682.26479 (09021202)   1699.94040 (07120208)   1917.72952 (09022607)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                     ***      14:12:10
                                                                                                                    PAGE 156
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  E_NNW    ***
                                INCLUDING SOURCE(S):     E_NNW       ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |     59.64510 (08012218)     61.82493 (07010417)     55.61235 (07010417)
 3932570.0 |     54.62963 (07010417)     57.65786 (07010417)     53.28207 (07010417)
 3932550.0 |     50.48370 (07010417)     53.73015 (07010417)     50.75395 (07010417)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                     ***      14:12:10
                                                                                                                    PAGE 157
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  E_NNE    ***
                                INCLUDING SOURCE(S):     E_NNE       ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |     52.35110 (09040702)     54.15094 (09040705)     51.24371 (09040705)
 3932570.0 |     48.52500 (09040705)     50.27725 (09040705)     47.34930 (09040705)
 3932550.0 |     45.69686 (09040705)     46.71949 (09040705)     44.27973 (07031418)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                     ***      14:12:10
                                                                                                                    PAGE 158
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  E_ENE    ***
                                INCLUDING SOURCE(S):     E_ENE       ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
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 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |     43.29980 (08111502)     46.57691 (08111502)     50.20891 (08111502)
 3932570.0 |     41.61556 (10040419)     43.82703 (11051819)     46.56891 (11051819)
 3932550.0 |     41.94170 (11051819)     44.08630 (11051819)     46.16298 (11051819)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                      ***      14:12:10
                                                                                                                     PAGE 159
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  E_ESE    ***
                                INCLUDING SOURCE(S):     E_ESE       ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                       **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |     42.16593 (07102206)     45.18229 (09101405)     49.13455 (09101405)
 3932570.0 |     42.75617 (07102206)     46.20302 (07102206)     50.03133 (07102206)
 3932550.0 |     41.63846 (09101406)     44.81338 (09101406)     48.34285 (09101406)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                      ***      14:12:10
                                                                                                                     PAGE 160
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  E_SSE    ***
                                INCLUDING SOURCE(S):     E_SSE       ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                       **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |     50.04129 (07102023)     47.22285 (07102023)     43.33317 (08051603)
 3932570.0 |     53.76907 (07102023)     49.95818 (07102023)     44.38356 (08051603)
 3932550.0 |     57.80854 (07102023)     52.69257 (07102023)     45.41582 (10112120)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                      ***      14:12:10
                                                                                                                     PAGE 161
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  E_SSW    ***
                                INCLUDING SOURCE(S):     E_SSW       ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                       **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |     73.80313 (08011624)     73.45765 (08022406)     72.00336 (08022406)
 3932570.0 |     79.25405 (08011624)     78.50071 (08022406)     77.66404 (08022406)
 3932550.0 |     84.81217 (08011624)     83.82647 (08022406)     83.92257 (08022406)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                      ***      14:12:10
                                                                                                                     PAGE 162
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  E_WSW    ***
                                INCLUDING SOURCE(S):     E_WSW       ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                       **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 3932590.0 |     75.43109 (11040719)     71.19171 (08022218)     67.13473 (08022218)
 3932570.0 |     79.59483 (08022220)     74.82762 (08022220)     70.27051 (08022220)
 3932550.0 |     81.70837 (08122517)     76.12223 (08122517)     71.01231 (08122517)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                       ***      14:12:10
                                                                                                                      PAGE 163
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  E_WNW    ***
                                INCLUDING SOURCE(S):     E_WNW       ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |     71.75745 (08022221)     65.93695 (08022221)     60.72643 (08022221)
 3932570.0 |     72.08996 (08122220)     66.33785 (08122220)     61.06510 (08022221)
 3932550.0 |     70.10046 (08020307)     66.00508 (08020307)     61.84908 (08020307)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                       ***      14:12:10
                                                                                                                      PAGE 164
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SE_NNW   ***
                                INCLUDING SOURCE(S):     SE_NNW      ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |   1770.52389 (08111908)   1920.46312 (10041407)   1808.59567 (10041407)
 3932570.0 |   1625.17020 (08111908)   1716.70348 (10041407)   1721.30960 (10041407)
 3932550.0 |   1499.59550 (08111908)   1536.95739 (10041407)   1625.25398 (10041407)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                       ***      14:12:10
                                                                                                                      PAGE 165
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SE_NNE   ***
                                INCLUDING SOURCE(S):     SE_NNE      ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |   1612.06398 (08092507)   1628.87298 (08062706)   1290.45154 (08062706)
 3932570.0 |   1415.78988 (08092507)   1479.25495 (08062706)   1167.72894 (09010617)
 3932550.0 |   1296.84564 (08062706)   1343.96267 (08062706)   1085.70266 (09010617)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                       ***      14:12:10
                                                                                                                      PAGE 166
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SE_ENE   ***
                                INCLUDING SOURCE(S):     SE_ENE      ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

```
 3932590.0 |   1816.61623 (11012917)   1911.09260 (11012917)   2048.36021 (07111708)
 3932570.0 |   1646.02845 (08092607)   1796.07458 (08092607)   1958.34557 (08092607)
 3932550.0 |   1512.94361 (10012520)   1608.91993 (10012520)   1778.62204 (09111708)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                      ***      14:12:10
                                                                                                                     PAGE 167
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SE_ESE   ***
                                INCLUDING SOURCE(S):     SE_ESE      ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |   1689.50103 (08122122)   1773.27703 (08122122)   1957.88034 (11021504)
 3932570.0 |   1568.09292 (11012917)   1693.47559 (08122122)   1905.89996 (08122122)
 3932550.0 |   2399.71274 (11012917)   2584.97121 (11012917)   2794.07309 (11012917)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                      ***      14:12:10
                                                                                                                     PAGE 168
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SE_SSE   ***
                                INCLUDING SOURCE(S):     SE_SSE      ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |   2504.75540 (11032218)   1944.60584 (08022023)   1828.23476 (07021508)
 3932570.0 |   2720.23336 (11032218)   2001.05234 (08022023)   2111.18884 (07021508)
 3932550.0 |   2960.03510 (11032218)   2087.25280 (08020408)   2410.11784 (07021508)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                      ***      14:12:10
                                                                                                                     PAGE 169
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SE_SSW   ***
                                INCLUDING SOURCE(S):     SE_SSW      ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |   2163.76172 (07122008)   1756.77661 (09120620)   2163.70708 (07012117)
 3932570.0 |   2354.78175 (07122008)   1935.56721 (09120620)   2365.26639 (07012117)
 3932550.0 |   2545.78703 (07120108)   2131.75892 (09120620)   2596.83218 (07012117)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                      ***      14:12:10
                                                                                                                     PAGE 170
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SE_WSW   ***
                                INCLUDING SOURCE(S):     SE_WSW      ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |   2241.92068 (10013005)   1938.80039 (10013005)   1767.32092 (09032607)
```

```
 3932570.0 |   2137.85828 (09032607)   1911.97069 (09032607)   1798.99923 (08021108)
 3932550.0 |   2390.33255 (08021108)   2180.07343 (08021108)   1998.38075 (08021108)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                    ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                        ***      14:12:10
                                                                                                      PAGE 171
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SE_WNW   ***
                                INCLUDING SOURCE(S):     SE_WNW      ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |   2148.57846 (09111608)   1956.10898 (09111608)   1783.41412 (09111608)
 3932570.0 |   1782.27953 (09111608)   1720.26938 (09111608)   1649.70350 (09111608)
 3932550.0 |   2096.37560 (11032518)   1765.71352 (08020201)   1620.15822 (08020201)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                    ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                        ***      14:12:10
                                                                                                      PAGE 172
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  Q_NNW    ***
                                INCLUDING SOURCE(S):     Q_NNW       ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |     31.38383 (08012219)     32.73926 (08012219)     32.00194 (08012219)
 3932570.0 |     29.87937 (08012219)     31.23990 (08012219)     30.73891 (08012219)
 3932550.0 |     28.47427 (08012219)     29.82678 (08012219)     29.51913 (08012219)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                    ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                        ***      14:12:10
                                                                                                      PAGE 173
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  Q_NNE    ***
                                INCLUDING SOURCE(S):     Q_NNE       ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |     28.85876 (07042919)     29.79843 (09022620)     29.49278 (07033119)
 3932570.0 |     28.22898 (09022620)     29.07579 (09022620)     28.31776 (07033119)
 3932550.0 |     27.68711 (09022620)     28.34229 (09022620)     27.29999 (08010218)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                    ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                        ***      14:12:10
                                                                                                      PAGE 174
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  Q_ENE    ***
                                INCLUDING SOURCE(S):     Q_ENE       ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |     33.69183 (10020608)     34.62963 (10020608)     35.57033 (10020608)
 3932570.0 |     32.90261 (10012621)     33.42187 (10012621)     33.88614 (10012621)
```

```
 3932550.0 |     31.30314 (10012621)     31.48960 (10012621)     31.57806 (10012621)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                       ***      14:12:10
                                                                                                                      PAGE 175
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  Q_ESE    ***
                                INCLUDING SOURCE(S):     Q_ESE       ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |     33.21733 (10020606)     34.22730 (10020606)     35.22195 (10020606)
 3932570.0 |     31.72298 (10020607)     32.15742 (10020607)     32.53793 (10020607)
 3932550.0 |     32.16080 (10020608)     33.03322 (10020608)     33.90695 (10020608)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                       ***      14:12:10
                                                                                                                      PAGE 176
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  Q_SSE    ***
                                INCLUDING SOURCE(S):     Q_SSE       ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |     38.11528 (09121218)     34.06234 (09040524)     35.18415 (08010420)
 3932570.0 |     39.12597 (09121218)     34.68414 (09040524)     36.19727 (08010420)
 3932550.0 |     40.12240 (09121218)     35.23987 (09040524)     37.14042 (08010420)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                       ***      14:12:10
                                                                                                                      PAGE 177
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  Q_SSW    ***
                                INCLUDING SOURCE(S):     Q_SSW       ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |     41.40314 (08022405)     39.96403 (08022406)     39.24190 (09121218)
 3932570.0 |     43.57189 (08022405)     42.15791 (08022406)     40.58214 (10041119)
 3932550.0 |     45.88194 (08022405)     44.53726 (08022406)     42.48381 (10041119)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                       ***      14:12:10
                                                                                                                      PAGE 178
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  Q_WSW    ***
                                INCLUDING SOURCE(S):     Q_WSW       ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |     44.41731 (08122219)     42.69799 (08122219)     41.03322 (08122219)
 3932570.0 |     45.67204 (08122219)     43.52856 (08122219)     41.51779 (08122219)
 3932550.0 |     46.06648 (08010422)     43.96429 (08010422)     41.99900 (08010422)
```

FF *** AERMOD - VERSION 14134 ***   *** School EQHO 100515   ***   10/05/15
 *** AERMET - VERSION 14134 ***   ***   ***   14:12:10
                                                                                                                      PAGE 179
 **MODELOPTs: NonDFAULT CONC   FLAT and ELEV   BETA   ADJ_U*

                            *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: Q_WNW   ***
                                INCLUDING SOURCE(S):   Q_WNW   ,

                                 *** NETWORK ID: R20   ; NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER   IN MICROGRAMS/M**3   **

  Y-COORD | X-COORD (METERS)
  (METERS) | 294330.00   294350.00   294370.00
 -

 3932590.0 | 40.92188 (08021502)   39.14337 (08021502)   37.46838 (08021502)
 3932570.0 | 40.41510 (08122221)   38.43396 (08122221)   36.57554 (08122221)
 3932550.0 | 40.65535 (08012806)   38.85563 (08122222)   37.13230 (08122222)
FF *** AERMOD - VERSION 14134 ***   *** School EQHO 100515   ***   10/05/15
 *** AERMET - VERSION 14134 ***   ***   ***   14:12:10
                                                                                                                      PAGE 180
 **MODELOPTs: NonDFAULT CONC   FLAT and ELEV   BETA   ADJ_U*

                            *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: Q_NW   ***
                                INCLUDING SOURCE(S):   Q_NW   ,

                                 *** NETWORK ID: R20   ; NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER   IN MICROGRAMS/M**3   **

  Y-COORD | X-COORD (METERS)
  (METERS) | 294330.00   294350.00   294370.00
 -

 3932590.0 | 33.13224 (10122920)   32.16623 (10122920)   31.21839 (11022620)
 3932570.0 | 32.15826 (09011009)   31.09759 (10122920)   30.18898 (10122920)
 3932550.0 | 33.04037 (09011009)   31.26229 (09011009)   29.32860 (09011009)
FF *** AERMOD - VERSION 14134 ***   *** School EQHO 100515   ***   10/05/15
 *** AERMET - VERSION 14134 ***   ***   ***   14:12:10
                                                                                                                      PAGE 181
 **MODELOPTs: NonDFAULT CONC   FLAT and ELEV   BETA   ADJ_U*

                            *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: Q_NE   ***
                                INCLUDING SOURCE(S):   Q_NE   ,

                                 *** NETWORK ID: R20   ; NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER   IN MICROGRAMS/M**3   **

  Y-COORD | X-COORD (METERS)
  (METERS) | 294330.00   294350.00   294370.00
 -

 3932590.0 | 29.17345 (08121324)   29.70754 (08121324)   30.30867 (11012617)
 3932570.0 | 28.20656 (08121324)   29.04788 (11012617)   30.99073 (11012617)
 3932550.0 | 27.82579 (11012617)   29.58346 (11012617)   30.53119 (11012617)
FF *** AERMOD - VERSION 14134 ***   *** School EQHO 100515   ***   10/05/15
 *** AERMET - VERSION 14134 ***   ***   ***   14:12:10
                                                                                                                      PAGE 182
 **MODELOPTs: NonDFAULT CONC   FLAT and ELEV   BETA   ADJ_U*

                            *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: Q_SE   ***
                                INCLUDING SOURCE(S):   Q_SE   ,

                                 *** NETWORK ID: R20   ; NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER   IN MICROGRAMS/M**3   **

  Y-COORD | X-COORD (METERS)
  (METERS) | 294330.00   294350.00   294370.00
 -

 3932590.0 | 35.63385 (10122122)   36.54368 (10022702)   37.38021 (10022701)
 3932570.0 | 36.29209 (10122207)   37.54478 (10122122)   38.54547 (10022702)
 3932550.0 | 37.38702 (08012423)   38.30304 (10122207)   39.59533 (10122122)
FF *** AERMOD - VERSION 14134 ***   *** School EQHO 100515   ***   10/05/15

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 *** AERMET - VERSION  14134 ***   ***                                                              ***       14:12:10
                                                                                                               PAGE 183
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  Q_SW     ***
                                 INCLUDING SOURCE(S):     Q_SW        ,

                                  *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3                       **

  Y-COORD  |                                            X-COORD (METERS)
  (METERS) |       294330.00               294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |     30.26674 (11120201)     30.75298 (10011817)     32.25720 (08012802)
 3932570.0 |     33.28493 (10011817)     33.45021 (08012802)     34.12762 (08012802)
 3932550.0 |     36.05485 (10011817)     35.18909 (08012802)     34.24830 (08012802)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                            ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***       14:12:10
                                                                                                               PAGE 184
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SQ_NNW   ***
                                 INCLUDING SOURCE(S):     SQ_NNW      ,

                                  *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3                       **

  Y-COORD  |                                            X-COORD (METERS)
  (METERS) |       294330.00               294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |    873.81898 (08111908)    822.74102 (07060806)    897.01205 (10041407)
 3932570.0 |    828.12867 (08111908)    779.46978 (07060806)    831.02454 (10041407)
 3932550.0 |    786.39437 (08111908)    745.02720 (08111908)    770.00184 (10041407)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                            ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***       14:12:10
                                                                                                               PAGE 185
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SQ_NNE   ***
                                 INCLUDING SOURCE(S):     SQ_NNE      ,

                                  *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3                       **

  Y-COORD  |                                            X-COORD (METERS)
  (METERS) |       294330.00               294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |    777.85446 (08062706)    640.94594 (08062706)    653.00176 (09010617)
 3932570.0 |    727.97088 (08062706)    589.18753 (08062706)    619.60471 (09010617)
 3932550.0 |    680.66929 (08062706)    544.94388 (08062706)    589.06838 (09010617)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                            ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***       14:12:10
                                                                                                               PAGE 186
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SQ_ENE   ***
                                 INCLUDING SOURCE(S):     SQ_ENE      ,

                                  *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3                       **

  Y-COORD  |                                            X-COORD (METERS)
  (METERS) |       294330.00               294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |   1147.26122 (11012917)   1192.66982 (11012917)   1243.34175 (11012917)
 3932570.0 |    936.95496 (07111708)    980.35265 (07111708)   1025.25430 (07111708)
 3932550.0 |    867.85497 (08092607)    924.37152 (08092607)    985.62388 (08092607)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                            ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***       14:12:10
```

**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SQ_ESE ***
INCLUDING SOURCE(S): SQ_ESE ,

*** NETWORK ID: R20 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	294330.00	294350.00	294370.00
3932590.0	825.10582 (08122122)	894.17578 (08122122)	965.42073 (08122122)
3932570.0	1057.23066 (11012917)	1098.73821 (11012917)	1144.08100 (11012917)
3932550.0	1335.28803 (11012917)	1402.18851 (11012917)	1475.23533 (11012917)

**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SQ_SSE ***
INCLUDING SOURCE(S): SQ_SSE ,

*** NETWORK ID: R20 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	294330.00	294350.00	294370.00
3932590.0	1233.41155 (11032218)	1256.34732 (11032218)	1061.54994 (08022023)
3932570.0	1308.65974 (11032218)	1312.42340 (11032218)	1093.01560 (08022023)
3932550.0	1390.35276 (11032218)	1374.96334 (11032218)	1120.95749 (08022023)

**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SQ_SSW ***
INCLUDING SOURCE(S): SQ_SSW ,

*** NETWORK ID: R20 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	294330.00	294350.00	294370.00
3932590.0	895.61926 (09120620)	1039.64260 (07012117)	1077.71182 (08122203)
3932570.0	950.03174 (09120620)	1082.85134 (07012117)	1136.26717 (08122203)
3932550.0	1008.64421 (09120620)	1129.95320 (07012117)	1201.21357 (07012117)

**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SQ_WSW ***
INCLUDING SOURCE(S): SQ_WSW ,

*** NETWORK ID: R20 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	294330.00	294350.00	294370.00
3932590.0	1102.84269 (09032607)	1029.35674 (09032607)	961.39343 (09032607)
3932570.0	1213.92464 (08021108)	1156.45527 (08021108)	1103.44189 (08021108)
3932550.0	1154.87568 (08021108)	1089.70262 (08021108)	1030.26134 (08021108)

```
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SQ_WNW   ***
                                INCLUDING SOURCE(S):     SQ_WNW      ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |   1050.51315 (07021408)    988.70322 (07021408)    932.33106 (07021408)
 3932570.0 |   1080.92040 (09111608)   1020.24023 (09111608)    963.07788 (09111608)
 3932550.0 |    987.79523 (09111608)    958.88180 (09111608)    927.88545 (09111608)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                    ***       14:12:10
                                                                                                                    PAGE 192
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SQ_NW    ***
                                INCLUDING SOURCE(S):     SQ_NW       ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |    728.51353 (09022701)    765.76346 (11061806)    756.34014 (11061806)
 3932570.0 |    683.87079 (09022701)    676.82517 (09022701)    716.11249 (11061806)
 3932550.0 |    705.34319 (09092307)    644.98097 (09022701)    630.48620 (09022701)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                    ***       14:12:10
                                                                                                                    PAGE 193
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SQ_NE    ***
                                INCLUDING SOURCE(S):     SQ_NE       ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |    807.04807 (10060406)    864.21523 (10060406)    855.94133 (10060406)
 3932570.0 |    807.54852 (10060406)    791.38339 (10060406)    719.33861 (09092807)
 3932550.0 |    734.28380 (10060406)    673.83700 (09092807)    710.22277 (09092807)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                    ***       14:12:10
                                                                                                                    PAGE 194
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SQ_SE    ***
                                INCLUDING SOURCE(S):     SQ_SE       ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |    755.49464 (09022607)    778.78337 (09031718)    851.18067 (09031718)
 3932570.0 |    902.99694 (09022607)    811.01532 (09022607)    838.78999 (09031718)
 3932550.0 |    922.01414 (09022607)    969.84508 (09022607)    873.69008 (09022607)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                    ***       14:12:10
                                                                                                                    PAGE 195
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
```

```
                          *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SQ_SW    ***
                              INCLUDING SOURCE(S):     SQ_SW       ,

                               *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                    ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |    895.60428 (10042203)    859.50512 (10042203)    839.09528 (08021708)
 3932570.0 |    916.85433 (10042203)    922.32356 (08021708)   1021.21860 (08021708)
 3932550.0 |   1019.34067 (08021708)   1112.67489 (08021708)   1108.33990 (08021708)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                      ***       14:12:10
                                                                                                                      PAGE 196
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                          *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  HO3O     ***
                              INCLUDING SOURCE(S):     HO3O        ,

                               *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                    ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |     23.23532 (07121118)     24.13557 (09013017)     24.21693 (09013017)
 3932570.0 |     23.64574 (09013017)     24.04280 (09013017)     23.60504 (09013017)
 3932550.0 |     23.72315 (09013017)     23.62467 (09013017)     23.06081 (08010124)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                      ***       14:12:10
                                                                                                                      PAGE 197
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                          *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  HO9O     ***
                              INCLUDING SOURCE(S):     HO9O        ,

                               *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                    ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |     23.96343 (10020607)     24.47682 (10020607)     24.99882 (10020607)
 3932570.0 |     22.55133 (11110206)     22.77471 (10020607)     23.26234 (10020607)
 3932550.0 |     22.99191 (10030421)     23.49118 (10020608)     24.14472 (10020608)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                      ***       14:12:10
                                                                                                                      PAGE 198
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                          *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  H15O     ***
                              INCLUDING SOURCE(S):     H15O        ,

                               *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                    ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |     26.04537 (10011822)     28.91238 (11021508)     30.67894 (11021508)
 3932570.0 |     26.17543 (10011822)     27.96997 (11021508)     30.47230 (11021508)
 3932550.0 |     26.31028 (10011821)     26.99691 (10011822)     29.82300 (11021508)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                  ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                      ***       14:12:10
                                                                                                                      PAGE 199
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
```

```
                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  H210     ***
                                INCLUDING SOURCE(S):     H210        ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |     25.74585 (11011509)     26.74670 (11011509)     27.53464 (11011509)
 3932570.0 |     26.85942 (11011509)     27.76008 (11011509)     28.42889 (11011509)
 3932550.0 |     27.94690 (11011509)     28.72811 (11011509)     29.25971 (11011509)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***        10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                     ***       14:12:10
                                                                                                                    PAGE 200
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  H270     ***
                                INCLUDING SOURCE(S):     H270        ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |     28.42288 (07120716)     28.03045 (07120716)     27.63231 (07120716)
 3932570.0 |     29.02222 (07120716)     28.65046 (07120716)     28.26936 (07120716)
 3932550.0 |     27.98099 (07120716)     27.71715 (07120716)     27.43510 (07120716)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***        10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                     ***       14:12:10
                                                                                                                    PAGE 201
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  H330     ***
                                INCLUDING SOURCE(S):     H330        ,

                                 *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |     28.59629 (09011009)     29.22707 (09011009)     29.62231 (09011009)
 3932570.0 |     27.66043 (09011009)     28.39606 (09011009)     28.91047 (09011009)
 3932550.0 |     26.70439 (09011009)     27.53015 (09011009)     28.14978 (09011009)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***        10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                     ***       14:12:10
                                                                                                                    PAGE 202
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SH030    ***
                               INCLUDING SOURCE(S):     SH030       ,

                                *** NETWORK ID: R20      ;  NETWORK TYPE: GRIDCART ***

                                     ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

  Y-COORD  |                                          X-COORD (METERS)
  (METERS) |       294330.00              294350.00              294370.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3932590.0 |    438.19389 (09020709)    428.65839 (11021501)    435.79006 (08011024)
 3932570.0 |    418.57064 (09020709)    408.94906 (08011024)    423.99555 (08011024)
 3932550.0 |    395.18160 (11021501)    405.12305 (08011024)    402.96055 (08011024)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***        10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                     ***       14:12:10
                                                                                                                    PAGE 203
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                           *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  SH090    ***
```

INCLUDING SOURCE(S): SH090 ,

*** NETWORK ID: R20 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	294330.00	294350.00	294370.00
3932590.0	688.14013 (11012917)	707.53324 (11012917)	728.03080 (11012917)
3932570.0	785.91442 (11012917)	812.30694 (11012917)	840.29032 (11012917)
3932550.0	785.91442 (11012917)	812.30694 (11012917)	840.29032 (11012917)

**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SH150 ***
INCLUDING SOURCE(S): SH150 ,

*** NETWORK ID: R20 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	294330.00	294350.00	294370.00
3932590.0	590.35437 (07121802)	534.55994 (07121802)	470.33785 (10122017)
3932570.0	607.38835 (07121802)	598.71745 (07121802)	505.62217 (10122017)
3932550.0	594.32434 (07121802)	639.63417 (07121802)	589.14346 (07121802)

**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SH210 ***
INCLUDING SOURCE(S): SH210 ,

*** NETWORK ID: R20 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	294330.00	294350.00	294370.00
3932590.0	555.88198 (10033003)	525.05034 (10033003)	443.09648 (10020724)
3932570.0	568.89178 (10033003)	493.55956 (10033003)	483.40286 (10020724)
3932550.0	554.02341 (10033003)	493.43895 (10020724)	512.26406 (10020724)

**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SH270 ***
INCLUDING SOURCE(S): SH270 ,

*** NETWORK ID: R20 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	294330.00	294350.00	294370.00
3932590.0	466.60675 (09022703)	447.67771 (09022703)	429.85595 (09022703)
3932570.0	540.25988 (09022703)	520.36337 (09022703)	501.62683 (09022703)
3932550.0	574.88302 (07021408)	555.15484 (07021408)	536.14823 (07021408)

**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SH330 ***
INCLUDING SOURCE(S): SH330 ,

*** NETWORK ID: R20 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 294330.00	294350.00	294370.00
3932590.0	570.98886 (08022608)	517.39280 (08022608)	459.81982 (11061006)
3932570.0	558.03312 (08022608)	544.32790 (08022608)	470.39677 (11061006)
3932550.0	525.67540 (08022608)	549.75051 (08022608)	506.13766 (08022608)

**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43824 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
H000	1ST HIGHEST VALUE IS	0.92402 AT (294370.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	2ND HIGHEST VALUE IS	0.90115 AT (294370.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	3RD HIGHEST VALUE IS	0.90099 AT (294350.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	4TH HIGHEST VALUE IS	0.88113 AT (294330.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	5TH HIGHEST VALUE IS	0.87933 AT (294350.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	6TH HIGHEST VALUE IS	0.87883 AT (294370.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	7TH HIGHEST VALUE IS	0.86052 AT (294330.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	8TH HIGHEST VALUE IS	0.85813 AT (294350.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	9TH HIGHEST VALUE IS	0.84027 AT (294330.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	10TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)		
H060	1ST HIGHEST VALUE IS	0.22481 AT (294370.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	2ND HIGHEST VALUE IS	0.22021 AT (294370.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	3RD HIGHEST VALUE IS	0.21709 AT (294350.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	4TH HIGHEST VALUE IS	0.21586 AT (294370.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	5TH HIGHEST VALUE IS	0.21279 AT (294350.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	6TH HIGHEST VALUE IS	0.20993 AT (294330.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	7TH HIGHEST VALUE IS	0.20876 AT (294350.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	8TH HIGHEST VALUE IS	0.20592 AT (294330.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	9TH HIGHEST VALUE IS	0.20218 AT (294330.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	10TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)		
H120	1ST HIGHEST VALUE IS	0.37281 AT (294370.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	2ND HIGHEST VALUE IS	0.36488 AT (294370.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	3RD HIGHEST VALUE IS	0.35817 AT (294350.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	4TH HIGHEST VALUE IS	0.35592 AT (294370.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	5TH HIGHEST VALUE IS	0.35008 AT (294350.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	6TH HIGHEST VALUE IS	0.34421 AT (294330.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	7TH HIGHEST VALUE IS	0.34107 AT (294350.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	8TH HIGHEST VALUE IS	0.33606 AT (294330.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	9TH HIGHEST VALUE IS	0.32708 AT (294330.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	10TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)		
H180	1ST HIGHEST VALUE IS	0.19354 AT (294330.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	2ND HIGHEST VALUE IS	0.18949 AT (294330.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	3RD HIGHEST VALUE IS	0.18893 AT (294350.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	4TH HIGHEST VALUE IS	0.18564 AT (294330.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	5TH HIGHEST VALUE IS	0.18505 AT (294350.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	6TH HIGHEST VALUE IS	0.18498 AT (294370.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	7TH HIGHEST VALUE IS	0.18137 AT (294350.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	8TH HIGHEST VALUE IS	0.18123 AT (294370.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	9TH HIGHEST VALUE IS	0.17768 AT (294370.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	10TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)		

**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43824 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
H240	1ST HIGHEST VALUE IS	0.30652 AT (294370.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	2ND HIGHEST VALUE IS	0.30402 AT (294350.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	3RD HIGHEST VALUE IS	0.30162 AT (294330.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	4TH HIGHEST VALUE IS	0.28951 AT (294370.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	5TH HIGHEST VALUE IS	0.28743 AT (294350.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	6TH HIGHEST VALUE IS	0.28548 AT (294330.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	7TH HIGHEST VALUE IS	0.27487 AT (294370.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	8TH HIGHEST VALUE IS	0.27318 AT (294350.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	9TH HIGHEST VALUE IS	0.27165 AT (294330.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	10TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)		
H300	1ST HIGHEST VALUE IS	1.60756 AT (294330.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	2ND HIGHEST VALUE IS	1.58489 AT (294330.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	3RD HIGHEST VALUE IS	1.58141 AT (294350.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	4TH HIGHEST VALUE IS	1.56275 AT (294330.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	5TH HIGHEST VALUE IS	1.55992 AT (294350.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	6TH HIGHEST VALUE IS	1.55589 AT (294370.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	7TH HIGHEST VALUE IS	1.53859 AT (294350.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	8TH HIGHEST VALUE IS	1.53569 AT (294370.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	9TH HIGHEST VALUE IS	1.51517 AT (294370.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	10TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)		
0000	1ST HIGHEST VALUE IS	0.42464 AT (294370.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	2ND HIGHEST VALUE IS	0.42057 AT (294350.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	3RD HIGHEST VALUE IS	0.41907 AT (294370.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	4TH HIGHEST VALUE IS	0.41721 AT (294330.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	5TH HIGHEST VALUE IS	0.41512 AT (294350.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	6TH HIGHEST VALUE IS	0.41365 AT (294370.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	7TH HIGHEST VALUE IS	0.41185 AT (294330.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	8TH HIGHEST VALUE IS	0.40980 AT (294350.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	9TH HIGHEST VALUE IS	0.40662 AT (294330.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	10TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)		
0030	1ST HIGHEST VALUE IS	0.27814 AT (294370.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	2ND HIGHEST VALUE IS	0.27775 AT (294370.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	3RD HIGHEST VALUE IS	0.27728 AT (294370.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	4TH HIGHEST VALUE IS	0.27254 AT (294350.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	5TH HIGHEST VALUE IS	0.27228 AT (294350.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	6TH HIGHEST VALUE IS	0.27193 AT (294350.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	7TH HIGHEST VALUE IS	0.26700 AT (294330.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	8TH HIGHEST VALUE IS	0.26688 AT (294330.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	9TH HIGHEST VALUE IS	0.26666 AT (294330.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	10TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)		

**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43824 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
0060	1ST HIGHEST VALUE IS	0.12307 AT (294370.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	2ND HIGHEST VALUE IS	0.12169 AT (294370.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	3RD HIGHEST VALUE IS	0.12097 AT (294350.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	4TH HIGHEST VALUE IS	0.12035 AT (294370.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	5TH HIGHEST VALUE IS	0.11965 AT (294350.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	6TH HIGHEST VALUE IS	0.11896 AT (294330.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	7TH HIGHEST VALUE IS	0.11836 AT (294350.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	8TH HIGHEST VALUE IS	0.11768 AT (294330.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	9TH HIGHEST VALUE IS	0.11644 AT (294330.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	10TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)		
0090	1ST HIGHEST VALUE IS	0.09680 AT (294370.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	2ND HIGHEST VALUE IS	0.09646 AT (294370.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	3RD HIGHEST VALUE IS	0.09619 AT (294370.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20

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         4TH HIGHEST VALUE IS       0.09579 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       0.09547 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       0.09520 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       0.09481 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       0.09450 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       0.09424 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

0120     1ST HIGHEST VALUE IS       0.18928 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       0.18760 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       0.18587 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       0.18584 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       0.18420 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       0.18257 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       0.18246 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       0.18092 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       0.17919 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

0150     1ST HIGHEST VALUE IS       0.18671 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       0.18517 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       0.18362 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       0.18359 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       0.18210 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       0.18061 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       0.18059 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       0.17915 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       0.17771 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***       14:12:10
                                                                                                              PAGE 211
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                                  *** THE SUMMARY OF MAXIMUM PERIOD ( 43824 HRS) RESULTS ***


                                  ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

                                                                                                    NETWORK
GROUP ID                      AVERAGE CONC              RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

0180     1ST HIGHEST VALUE IS       0.10624 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       0.10518 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       0.10490 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       0.10414 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       0.10387 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       0.10371 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       0.10286 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       0.10270 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       0.10172 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

0210     1ST HIGHEST VALUE IS       0.10217 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       0.10195 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       0.10178 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       0.10083 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       0.10064 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       0.10052 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       0.09954 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       0.09940 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       0.09931 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

0240     1ST HIGHEST VALUE IS       0.16794 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       0.16753 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       0.16713 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       0.16391 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       0.16355 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       0.16320 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       0.16016 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       0.15985 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       0.15956 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

0270     1ST HIGHEST VALUE IS       0.60149 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
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         2ND HIGHEST VALUE IS       0.59338 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       0.59163 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       0.58548 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       0.58377 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       0.58141 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       0.57611 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       0.57382 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       0.56641 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                               ***       14:12:10
                                                                                                               PAGE 212
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                                    *** THE SUMMARY OF MAXIMUM PERIOD ( 43824 HRS) RESULTS ***


                                   ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

                                                                                                    NETWORK
GROUP ID                      AVERAGE CONC              RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

O300      1ST HIGHEST VALUE IS       0.83429 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          2ND HIGHEST VALUE IS       0.82690 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          3RD HIGHEST VALUE IS       0.82688 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          4TH HIGHEST VALUE IS       0.81968 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          5TH HIGHEST VALUE IS       0.81958 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          6TH HIGHEST VALUE IS       0.81951 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          7TH HIGHEST VALUE IS       0.81257 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          8TH HIGHEST VALUE IS       0.81246 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          9TH HIGHEST VALUE IS       0.80552 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

O330      1ST HIGHEST VALUE IS       0.73916 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          2ND HIGHEST VALUE IS       0.73760 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          3RD HIGHEST VALUE IS       0.73588 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          4TH HIGHEST VALUE IS       0.72896 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          5TH HIGHEST VALUE IS       0.72754 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          6TH HIGHEST VALUE IS       0.72597 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          7TH HIGHEST VALUE IS       0.71897 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          8TH HIGHEST VALUE IS       0.71767 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          9TH HIGHEST VALUE IS       0.71623 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

SH000     1ST HIGHEST VALUE IS       3.29650 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          2ND HIGHEST VALUE IS       3.26352 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          3RD HIGHEST VALUE IS       3.23988 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          4TH HIGHEST VALUE IS       3.14934 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          5TH HIGHEST VALUE IS       3.12096 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          6TH HIGHEST VALUE IS       3.09747 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          7TH HIGHEST VALUE IS       3.01245 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          8TH HIGHEST VALUE IS       2.98765 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          9TH HIGHEST VALUE IS       2.96456 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

SH060     1ST HIGHEST VALUE IS       1.63898 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          2ND HIGHEST VALUE IS       1.60968 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          3RD HIGHEST VALUE IS       1.58892 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          4TH HIGHEST VALUE IS       1.57894 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          5TH HIGHEST VALUE IS       1.54677 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          6TH HIGHEST VALUE IS       1.52388 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          7TH HIGHEST VALUE IS       1.52235 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          8TH HIGHEST VALUE IS       1.49106 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          9TH HIGHEST VALUE IS       1.46475 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                               ***       14:12:10
                                                                                                               PAGE 213
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                                    *** THE SUMMARY OF MAXIMUM PERIOD ( 43824 HRS) RESULTS ***


                                   ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

                                                                                                    NETWORK
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GROUP ID		AVERAGE CONC		RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)					OF TYPE	GRID-ID
SH120	1ST HIGHEST VALUE IS	2.42457	AT	294370.00,	3932550.00,	109.10,	109.10,	0.00)	GC	R20
	2ND HIGHEST VALUE IS	2.36726	AT	294370.00,	3932570.00,	109.10,	109.10,	0.00)	GC	R20
	3RD HIGHEST VALUE IS	2.34020	AT	294350.00,	3932550.00,	109.10,	109.10,	0.00)	GC	R20
	4TH HIGHEST VALUE IS	2.32255	AT	294370.00,	3932590.00,	109.10,	109.10,	0.00)	GC	R20
	5TH HIGHEST VALUE IS	2.28512	AT	294350.00,	3932570.00,	109.10,	109.10,	0.00)	GC	R20
	6TH HIGHEST VALUE IS	2.25518	AT	294330.00,	3932550.00,	109.10,	109.10,	0.00)	GC	R20
	7TH HIGHEST VALUE IS	2.23438	AT	294350.00,	3932590.00,	109.10,	109.10,	0.00)	GC	R20
	8TH HIGHEST VALUE IS	2.21001	AT	294330.00,	3932570.00,	109.10,	109.10,	0.00)	GC	R20
	9TH HIGHEST VALUE IS	2.15829	AT	294330.00,	3932590.00,	109.10,	109.10,	0.00)	GC	R20
	10TH HIGHEST VALUE IS	0.00000	AT	0.00,	0.00,	0.00,	0.00,	0.00)		
SH180	1ST HIGHEST VALUE IS	1.43846	AT	294330.00,	3932550.00,	109.10,	109.10,	0.00)	GC	R20
	2ND HIGHEST VALUE IS	1.41342	AT	294350.00,	3932550.00,	109.10,	109.10,	0.00)	GC	R20
	3RD HIGHEST VALUE IS	1.39606	AT	294370.00,	3932550.00,	109.10,	109.10,	0.00)	GC	R20
	4TH HIGHEST VALUE IS	1.37757	AT	294330.00,	3932570.00,	109.10,	109.10,	0.00)	GC	R20
	5TH HIGHEST VALUE IS	1.35460	AT	294350.00,	3932570.00,	109.10,	109.10,	0.00)	GC	R20
	6TH HIGHEST VALUE IS	1.33794	AT	294370.00,	3932570.00,	109.10,	109.10,	0.00)	GC	R20
	7TH HIGHEST VALUE IS	1.32074	AT	294330.00,	3932590.00,	109.10,	109.10,	0.00)	GC	R20
	8TH HIGHEST VALUE IS	1.29969	AT	294350.00,	3932590.00,	109.10,	109.10,	0.00)	GC	R20
	9TH HIGHEST VALUE IS	1.28379	AT	294370.00,	3932590.00,	109.10,	109.10,	0.00)	GC	R20
	10TH HIGHEST VALUE IS	0.00000	AT	0.00,	0.00,	0.00,	0.00,	0.00)		
SH240	1ST HIGHEST VALUE IS	2.49745	AT	294330.00,	3932550.00,	109.10,	109.10,	0.00)	GC	R20
	2ND HIGHEST VALUE IS	2.44875	AT	294350.00,	3932550.00,	109.10,	109.10,	0.00)	GC	R20
	3RD HIGHEST VALUE IS	2.40400	AT	294370.00,	3932550.00,	109.10,	109.10,	0.00)	GC	R20
	4TH HIGHEST VALUE IS	2.36513	AT	294330.00,	3932570.00,	109.10,	109.10,	0.00)	GC	R20
	5TH HIGHEST VALUE IS	2.31799	AT	294350.00,	3932570.00,	109.10,	109.10,	0.00)	GC	R20
	6TH HIGHEST VALUE IS	2.27377	AT	294370.00,	3932570.00,	109.10,	109.10,	0.00)	GC	R20
	7TH HIGHEST VALUE IS	2.24149	AT	294330.00,	3932590.00,	109.10,	109.10,	0.00)	GC	R20
	8TH HIGHEST VALUE IS	2.20087	AT	294350.00,	3932590.00,	109.10,	109.10,	0.00)	GC	R20
	9TH HIGHEST VALUE IS	2.15939	AT	294370.00,	3932590.00,	109.10,	109.10,	0.00)	GC	R20
	10TH HIGHEST VALUE IS	0.00000	AT	0.00,	0.00,	0.00,	0.00,	0.00)		
SH300	1ST HIGHEST VALUE IS	7.44682	AT	294330.00,	3932590.00,	109.10,	109.10,	0.00)	GC	R20
	2ND HIGHEST VALUE IS	7.27122	AT	294350.00,	3932590.00,	109.10,	109.10,	0.00)	GC	R20
	3RD HIGHEST VALUE IS	7.14856	AT	294330.00,	3932570.00,	109.10,	109.10,	0.00)	GC	R20
	4TH HIGHEST VALUE IS	7.09905	AT	294370.00,	3932590.00,	109.10,	109.10,	0.00)	GC	R20
	5TH HIGHEST VALUE IS	6.97550	AT	294350.00,	3932570.00,	109.10,	109.10,	0.00)	GC	R20
	6TH HIGHEST VALUE IS	6.89130	AT	294330.00,	3932550.00,	109.10,	109.10,	0.00)	GC	R20
	7TH HIGHEST VALUE IS	6.81593	AT	294370.00,	3932570.00,	109.10,	109.10,	0.00)	GC	R20
	8TH HIGHEST VALUE IS	6.71202	AT	294350.00,	3932550.00,	109.10,	109.10,	0.00)	GC	R20
	9TH HIGHEST VALUE IS	6.55108	AT	294370.00,	3932550.00,	109.10,	109.10,	0.00)	GC	R20
	10TH HIGHEST VALUE IS	0.00000	AT	0.00,	0.00,	0.00,	0.00,	0.00)		

**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43824 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC		RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)					OF TYPE	NETWORK GRID-ID
SO000	1ST HIGHEST VALUE IS	0.95247	AT	294330.00,	3932590.00,	109.10,	109.10,	0.00)	GC	R20
	2ND HIGHEST VALUE IS	0.94034	AT	294350.00,	3932590.00,	109.10,	109.10,	0.00)	GC	R20
	3RD HIGHEST VALUE IS	0.93764	AT	294370.00,	3932590.00,	109.10,	109.10,	0.00)	GC	R20
	4TH HIGHEST VALUE IS	0.93153	AT	294330.00,	3932570.00,	109.10,	109.10,	0.00)	GC	R20
	5TH HIGHEST VALUE IS	0.91983	AT	294350.00,	3932570.00,	109.10,	109.10,	0.00)	GC	R20
	6TH HIGHEST VALUE IS	0.91736	AT	294370.00,	3932570.00,	109.10,	109.10,	0.00)	GC	R20
	7TH HIGHEST VALUE IS	0.91118	AT	294330.00,	3932550.00,	109.10,	109.10,	0.00)	GC	R20
	8TH HIGHEST VALUE IS	0.90021	AT	294350.00,	3932550.00,	109.10,	109.10,	0.00)	GC	R20
	9TH HIGHEST VALUE IS	0.89781	AT	294370.00,	3932550.00,	109.10,	109.10,	0.00)	GC	R20
	10TH HIGHEST VALUE IS	0.00000	AT	0.00,	0.00,	0.00,	0.00,	0.00)		
SO030	1ST HIGHEST VALUE IS	0.94225	AT	294370.00,	3932590.00,	109.10,	109.10,	0.00)	GC	R20
	2ND HIGHEST VALUE IS	0.92982	AT	294350.00,	3932590.00,	109.10,	109.10,	0.00)	GC	R20
	3RD HIGHEST VALUE IS	0.92568	AT	294370.00,	3932570.00,	109.10,	109.10,	0.00)	GC	R20
	4TH HIGHEST VALUE IS	0.91695	AT	294330.00,	3932590.00,	109.10,	109.10,	0.00)	GC	R20
	5TH HIGHEST VALUE IS	0.91499	AT	294350.00,	3932570.00,	109.10,	109.10,	0.00)	GC	R20
	6TH HIGHEST VALUE IS	0.90931	AT	294370.00,	3932550.00,	109.10,	109.10,	0.00)	GC	R20

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         7TH HIGHEST VALUE IS       0.90327 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       0.89977 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       0.88937 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

SO060    1ST HIGHEST VALUE IS       0.49249 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       0.48718 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       0.48387 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       0.48345 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       0.47862 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       0.47599 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       0.47392 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       0.47033 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       0.46527 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

SO090    1ST HIGHEST VALUE IS       0.58941 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       0.58573 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       0.58184 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       0.57776 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       0.57410 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       0.57031 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       0.56651 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       0.56278 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       0.55923 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***       14:12:10
                                                                                                              PAGE 215
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                                  *** THE SUMMARY OF MAXIMUM PERIOD ( 43824 HRS) RESULTS ***


                                  ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

                                                                                                  NETWORK
GROUP ID                      AVERAGE CONC               RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

S0120    1ST HIGHEST VALUE IS       0.73360 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       0.72458 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       0.72112 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       0.71529 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       0.71113 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       0.71010 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       0.70182 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       0.69929 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       0.68971 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

S0150    1ST HIGHEST VALUE IS       0.61962 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       0.61152 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       0.60733 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       0.60368 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       0.59958 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       0.59660 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       0.59182 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       0.58849 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       0.58044 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

S0180    1ST HIGHEST VALUE IS       0.43391 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       0.42952 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       0.42540 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       0.42502 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       0.42076 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       0.41671 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       0.41638 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       0.41221 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       0.40833 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

S0210    1ST HIGHEST VALUE IS       0.38022 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       0.37575 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       0.37502 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       0.37463 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
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         5TH HIGHEST VALUE IS       0.37099 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       0.36891 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       0.36545 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       0.36314 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       0.35819 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***      14:12:10
                                                                                                             PAGE 216
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                                    *** THE SUMMARY OF MAXIMUM PERIOD ( 43824 HRS) RESULTS ***


                                   ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

                                                                                                        NETWORK
GROUP ID                      AVERAGE CONC              RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

SO240     1ST HIGHEST VALUE IS       0.73485 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          2ND HIGHEST VALUE IS       0.72856 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          3RD HIGHEST VALUE IS       0.72263 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          4TH HIGHEST VALUE IS       0.71481 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          5TH HIGHEST VALUE IS       0.70856 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          6TH HIGHEST VALUE IS       0.70248 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          7TH HIGHEST VALUE IS       0.69571 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          8TH HIGHEST VALUE IS       0.68959 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          9TH HIGHEST VALUE IS       0.68384 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

SO270     1ST HIGHEST VALUE IS       1.60133 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          2ND HIGHEST VALUE IS       1.58465 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          3RD HIGHEST VALUE IS       1.58008 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          4TH HIGHEST VALUE IS       1.56694 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          5TH HIGHEST VALUE IS       1.55117 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          6TH HIGHEST VALUE IS       1.54725 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          7TH HIGHEST VALUE IS       1.53362 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          8TH HIGHEST VALUE IS       1.51913 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          9TH HIGHEST VALUE IS       1.51562 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

SO300     1ST HIGHEST VALUE IS       2.32255 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          2ND HIGHEST VALUE IS       2.29979 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          3RD HIGHEST VALUE IS       2.27856 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          4TH HIGHEST VALUE IS       2.26888 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          5TH HIGHEST VALUE IS       2.24732 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          6TH HIGHEST VALUE IS       2.22518 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          7TH HIGHEST VALUE IS       2.22137 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          8TH HIGHEST VALUE IS       2.19783 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          9TH HIGHEST VALUE IS       2.17679 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

SO330     1ST HIGHEST VALUE IS       1.93351 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          2ND HIGHEST VALUE IS       1.93193 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          3RD HIGHEST VALUE IS       1.93032 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          4TH HIGHEST VALUE IS       1.88896 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          5TH HIGHEST VALUE IS       1.88844 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          6TH HIGHEST VALUE IS       1.88770 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          7TH HIGHEST VALUE IS       1.84697 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          8TH HIGHEST VALUE IS       1.84691 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          9TH HIGHEST VALUE IS       1.84593 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***      14:12:10
                                                                                                             PAGE 217
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                                    *** THE SUMMARY OF MAXIMUM PERIOD ( 43824 HRS) RESULTS ***


                                   ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

                                                                                                        NETWORK
GROUP ID                      AVERAGE CONC              RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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E_SW      1ST HIGHEST VALUE IS       0.47514 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          2ND HIGHEST VALUE IS       0.46551 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          3RD HIGHEST VALUE IS       0.45825 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          4TH HIGHEST VALUE IS       0.44732 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          5TH HIGHEST VALUE IS       0.43799 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          6TH HIGHEST VALUE IS       0.43003 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          7TH HIGHEST VALUE IS       0.42313 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          8TH HIGHEST VALUE IS       0.41452 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          9TH HIGHEST VALUE IS       0.40674 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

E_NW      1ST HIGHEST VALUE IS       3.18215 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          2ND HIGHEST VALUE IS       3.12228 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          3RD HIGHEST VALUE IS       3.05454 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          4TH HIGHEST VALUE IS       3.04252 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          5TH HIGHEST VALUE IS       2.99242 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          6TH HIGHEST VALUE IS       2.93729 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          7TH HIGHEST VALUE IS       2.91897 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          8TH HIGHEST VALUE IS       2.87341 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          9TH HIGHEST VALUE IS       2.82647 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

E_NE      1ST HIGHEST VALUE IS       0.69358 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          2ND HIGHEST VALUE IS       0.66895 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          3RD HIGHEST VALUE IS       0.64433 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          4TH HIGHEST VALUE IS       0.62692 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          5TH HIGHEST VALUE IS       0.60463 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          6TH HIGHEST VALUE IS       0.58291 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          7TH HIGHEST VALUE IS       0.57051 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          8TH HIGHEST VALUE IS       0.55058 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          9TH HIGHEST VALUE IS       0.53142 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

E_SE      1ST HIGHEST VALUE IS       0.94041 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          2ND HIGHEST VALUE IS       0.90108 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          3RD HIGHEST VALUE IS       0.90025 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          4TH HIGHEST VALUE IS       0.87633 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          5TH HIGHEST VALUE IS       0.85436 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          6TH HIGHEST VALUE IS       0.85270 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          7TH HIGHEST VALUE IS       0.84321 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          8TH HIGHEST VALUE IS       0.84153 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          9TH HIGHEST VALUE IS       0.82085 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***       14:12:10
                                                                                                              PAGE 218
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                                      *** THE SUMMARY OF MAXIMUM PERIOD ( 43824 HRS) RESULTS ***


                                     ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

                                                                                                    NETWORK
GROUP ID                       AVERAGE CONC              RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

SE_SW     1ST HIGHEST VALUE IS       7.65713 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          2ND HIGHEST VALUE IS       7.28739 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          3RD HIGHEST VALUE IS       6.97394 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          4TH HIGHEST VALUE IS       6.92271 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          5TH HIGHEST VALUE IS       6.63691 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          6TH HIGHEST VALUE IS       6.33963 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          7TH HIGHEST VALUE IS       6.24065 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          8TH HIGHEST VALUE IS       6.04625 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          9TH HIGHEST VALUE IS       5.81850 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

SE_NW     1ST HIGHEST VALUE IS      28.73770 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          2ND HIGHEST VALUE IS      27.11307 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          3RD HIGHEST VALUE IS      26.33854 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          4TH HIGHEST VALUE IS      25.46919 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          5TH HIGHEST VALUE IS      25.02939 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          6TH HIGHEST VALUE IS      24.19327 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          7TH HIGHEST VALUE IS      23.73398 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          8TH HIGHEST VALUE IS      23.09042 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          9TH HIGHEST VALUE IS      22.03440 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
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        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,       0.00,     0.00,     0.00,    0.00)

SE_NE    1ST HIGHEST VALUE IS       7.88199 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       7.72273 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       7.60567 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       7.05739 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       6.93266 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       6.79472 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       6.33290 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       6.26703 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       6.15290 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,       0.00,     0.00,     0.00,    0.00)

SE_SE    1ST HIGHEST VALUE IS       9.93245 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       9.38015 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       9.12628 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       8.81007 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       8.66012 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       8.36865 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       8.22439 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       8.00967 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       7.62870 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,       0.00,     0.00,     0.00,    0.00)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***       14:12:10
                                                                                                             PAGE 219
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                                  *** THE SUMMARY OF MAXIMUM PERIOD ( 43824 HRS) RESULTS ***


                                 ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

                                                                                                 NETWORK
GROUP ID                      AVERAGE CONC               RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

E_NNW    1ST HIGHEST VALUE IS       3.02325 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       2.82474 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       2.82436 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       2.64741 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       2.64463 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       2.61141 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       2.48327 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       2.45566 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       2.31431 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,       0.00,     0.00,     0.00,    0.00)

E_NNE    1ST HIGHEST VALUE IS       2.26841 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       2.15328 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       2.10363 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       2.04638 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       2.00766 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       1.95547 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       1.91732 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       1.87657 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       1.80132 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,       0.00,     0.00,     0.00,    0.00)

E_ENE    1ST HIGHEST VALUE IS       0.45899 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       0.45207 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       0.44579 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       0.42887 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       0.42265 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       0.41697 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       0.40265 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       0.39703 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       0.39186 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,       0.00,     0.00,     0.00,    0.00)

E_ESE    1ST HIGHEST VALUE IS       0.49134 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       0.48043 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       0.47230 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       0.45735 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       0.44814 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       0.44094 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       0.42799 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
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         8TH HIGHEST VALUE IS       0.42009 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       0.41365 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***        10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                     ***       14:12:10
                                                                                                                    PAGE 220
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                                    *** THE SUMMARY OF MAXIMUM PERIOD ( 43824 HRS) RESULTS ***


                                   ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

                                                                                                          NETWORK
GROUP ID                      AVERAGE CONC              RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

E_SSE     1ST HIGHEST VALUE IS       0.51255 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          2ND HIGHEST VALUE IS       0.50094 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          3RD HIGHEST VALUE IS       0.49062 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          4TH HIGHEST VALUE IS       0.47606 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          5TH HIGHEST VALUE IS       0.46550 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          6TH HIGHEST VALUE IS       0.45676 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          7TH HIGHEST VALUE IS       0.44448 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          8TH HIGHEST VALUE IS       0.43477 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          9TH HIGHEST VALUE IS       0.42719 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

E_SSW     1ST HIGHEST VALUE IS       0.58017 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          2ND HIGHEST VALUE IS       0.56339 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          3RD HIGHEST VALUE IS       0.54496 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          4TH HIGHEST VALUE IS       0.53965 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          5TH HIGHEST VALUE IS       0.52366 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          6TH HIGHEST VALUE IS       0.50637 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          7TH HIGHEST VALUE IS       0.50432 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          8TH HIGHEST VALUE IS       0.48904 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          9TH HIGHEST VALUE IS       0.47278 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

E_WSW     1ST HIGHEST VALUE IS       2.67438 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          2ND HIGHEST VALUE IS       2.52849 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          3RD HIGHEST VALUE IS       2.39890 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          4TH HIGHEST VALUE IS       2.32047 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          5TH HIGHEST VALUE IS       2.21547 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          6TH HIGHEST VALUE IS       2.12011 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          7TH HIGHEST VALUE IS       1.94498 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          8TH HIGHEST VALUE IS       1.88208 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          9TH HIGHEST VALUE IS       1.82240 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

E_WNW     1ST HIGHEST VALUE IS       3.36482 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          2ND HIGHEST VALUE IS       3.29401 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          3RD HIGHEST VALUE IS       3.17894 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          4TH HIGHEST VALUE IS       3.14154 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          5TH HIGHEST VALUE IS       3.09848 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          6TH HIGHEST VALUE IS       3.00876 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          7TH HIGHEST VALUE IS       2.95041 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          8TH HIGHEST VALUE IS       2.92361 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          9TH HIGHEST VALUE IS       2.78166 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***        10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                     ***       14:12:10
                                                                                                                    PAGE 221
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                                    *** THE SUMMARY OF MAXIMUM PERIOD ( 43824 HRS) RESULTS ***


                                   ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

                                                                                                          NETWORK
GROUP ID                      AVERAGE CONC              RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

SE_NNW    1ST HIGHEST VALUE IS      25.78517 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          2ND HIGHEST VALUE IS      23.55359 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          3RD HIGHEST VALUE IS      22.79152 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
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          4TH HIGHEST VALUE IS      20.98119 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          5TH HIGHEST VALUE IS      20.76750 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          6TH HIGHEST VALUE IS      20.28213 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          7TH HIGHEST VALUE IS      18.55953 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          8TH HIGHEST VALUE IS      18.45034 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          9TH HIGHEST VALUE IS      16.54050 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

SE_NNE    1ST HIGHEST VALUE IS      19.34592 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          2ND HIGHEST VALUE IS      19.23026 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          3RD HIGHEST VALUE IS      19.10166 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          4TH HIGHEST VALUE IS      17.27719 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          5TH HIGHEST VALUE IS      17.24800 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          6TH HIGHEST VALUE IS      16.98550 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          7TH HIGHEST VALUE IS      15.59776 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          8TH HIGHEST VALUE IS      15.47315 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          9TH HIGHEST VALUE IS      15.20668 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

SE_ENE    1ST HIGHEST VALUE IS       8.14436 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          2ND HIGHEST VALUE IS       7.90630 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          3RD HIGHEST VALUE IS       7.68381 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          4TH HIGHEST VALUE IS       7.36188 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          5TH HIGHEST VALUE IS       7.15088 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          6TH HIGHEST VALUE IS       6.97196 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          7TH HIGHEST VALUE IS       6.69603 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          8TH HIGHEST VALUE IS       6.50478 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          9TH HIGHEST VALUE IS       6.35439 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

SE_ESE    1ST HIGHEST VALUE IS       8.39684 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          2ND HIGHEST VALUE IS       8.39567 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          3RD HIGHEST VALUE IS       8.21414 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          4TH HIGHEST VALUE IS       7.58763 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          5TH HIGHEST VALUE IS       7.58173 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          6TH HIGHEST VALUE IS       7.44899 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          7TH HIGHEST VALUE IS       6.89442 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          8TH HIGHEST VALUE IS       6.88591 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          9TH HIGHEST VALUE IS       6.79196 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                              ***       14:12:10
                                                                                                              PAGE 222
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                                  *** THE SUMMARY OF MAXIMUM PERIOD ( 43824 HRS) RESULTS ***


                                  ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

                                                                                                      NETWORK
GROUP ID                       AVERAGE CONC               RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

SE_SSE    1ST HIGHEST VALUE IS       7.58120 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          2ND HIGHEST VALUE IS       7.56903 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          3RD HIGHEST VALUE IS       7.44254 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          4TH HIGHEST VALUE IS       6.75376 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          5TH HIGHEST VALUE IS       6.73405 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          6TH HIGHEST VALUE IS       6.66887 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          7TH HIGHEST VALUE IS       6.05856 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          8TH HIGHEST VALUE IS       6.03632 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          9TH HIGHEST VALUE IS       6.01108 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

SE_SSW    1ST HIGHEST VALUE IS       9.02462 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          2ND HIGHEST VALUE IS       8.59149 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          3RD HIGHEST VALUE IS       8.04197 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
          4TH HIGHEST VALUE IS       7.98426 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          5TH HIGHEST VALUE IS       7.59676 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          6TH HIGHEST VALUE IS       7.13532 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
          7TH HIGHEST VALUE IS       7.11925 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          8TH HIGHEST VALUE IS       6.77231 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
          9TH HIGHEST VALUE IS       6.38246 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

SE_WSW    1ST HIGHEST VALUE IS      25.52381 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
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         2ND HIGHEST VALUE IS      23.64158 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS      22.89268 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS      21.62793 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS      21.33054 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS      20.67192 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS      19.59424 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS      19.36273 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS      17.84856 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

SE_WNW   1ST HIGHEST VALUE IS      31.16336 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS      29.96209 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS      28.30980 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS      27.70002 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS      26.67206 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS      25.21455 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS      24.81835 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS      23.91790 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS      22.62253 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                               ***      14:12:10
                                                                                                             PAGE 223
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                                    *** THE SUMMARY OF MAXIMUM PERIOD ( 43824 HRS) RESULTS ***


                                    ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

                                                                                                    NETWORK
GROUP ID                      AVERAGE CONC              RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

Q_NNW    1ST HIGHEST VALUE IS       1.70421 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       1.63078 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       1.62336 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       1.56286 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       1.55577 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       1.54613 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       1.49311 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       1.48445 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       1.42709 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

Q_NNE    1ST HIGHEST VALUE IS       1.42186 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       1.36985 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       1.36555 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       1.32114 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       1.31807 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       1.31550 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       1.27342 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       1.27214 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       1.23117 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

Q_ENE    1ST HIGHEST VALUE IS       0.27178 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       0.26899 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       0.26638 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       0.26168 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       0.25908 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       0.25665 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       0.25228 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       0.24986 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       0.24760 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

Q_ESE    1ST HIGHEST VALUE IS       0.28453 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       0.28101 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       0.27775 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       0.27356 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       0.27030 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       0.26726 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       0.26345 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       0.26039 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       0.25754 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
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 **MODELOPTs: NonDFAULT CONC   FLAT and ELEV   BETA   ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43824 HRS) RESULTS ***

** CONC OF OTHER   IN MICROGRAMS/M**3   **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
Q_SSE	1ST HIGHEST VALUE IS	0.28985 AT (294330.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	2ND HIGHEST VALUE IS	0.28359 AT (294350.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	3RD HIGHEST VALUE IS	0.27929 AT (294370.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	4TH HIGHEST VALUE IS	0.27899 AT (294330.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	5TH HIGHEST VALUE IS	0.27299 AT (294350.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	6TH HIGHEST VALUE IS	0.26907 AT (294330.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	7TH HIGHEST VALUE IS	0.26884 AT (294370.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	8TH HIGHEST VALUE IS	0.26330 AT (294350.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	9TH HIGHEST VALUE IS	0.25927 AT (294370.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	10TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)		
Q_SSW	1ST HIGHEST VALUE IS	0.32549 AT (294330.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	2ND HIGHEST VALUE IS	0.31525 AT (294350.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	3RD HIGHEST VALUE IS	0.31292 AT (294330.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	4TH HIGHEST VALUE IS	0.30509 AT (294370.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	5TH HIGHEST VALUE IS	0.30314 AT (294350.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	6TH HIGHEST VALUE IS	0.30141 AT (294330.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	7TH HIGHEST VALUE IS	0.29348 AT (294370.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	8TH HIGHEST VALUE IS	0.29206 AT (294350.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	9TH HIGHEST VALUE IS	0.28287 AT (294370.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	10TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)		
Q_WSW	1ST HIGHEST VALUE IS	1.71944 AT (294330.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	2ND HIGHEST VALUE IS	1.66016 AT (294350.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	3RD HIGHEST VALUE IS	1.60418 AT (294370.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	4TH HIGHEST VALUE IS	1.58667 AT (294330.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	5TH HIGHEST VALUE IS	1.53760 AT (294350.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	6TH HIGHEST VALUE IS	1.49086 AT (294370.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	7TH HIGHEST VALUE IS	1.44437 AT (294330.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	8TH HIGHEST VALUE IS	1.40628 AT (294350.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	9TH HIGHEST VALUE IS	1.36950 AT (294370.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	10TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)		
Q_WNW	1ST HIGHEST VALUE IS	2.08071 AT (294330.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	2ND HIGHEST VALUE IS	2.00770 AT (294330.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	3RD HIGHEST VALUE IS	1.99851 AT (294350.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	4TH HIGHEST VALUE IS	1.92890 AT (294350.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	5TH HIGHEST VALUE IS	1.92138 AT (294370.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	6TH HIGHEST VALUE IS	1.91740 AT (294330.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	7TH HIGHEST VALUE IS	1.85498 AT (294370.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	8TH HIGHEST VALUE IS	1.84401 AT (294350.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	9TH HIGHEST VALUE IS	1.77512 AT (294370.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	10TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)		

 **MODELOPTs: NonDFAULT CONC   FLAT and ELEV   BETA   ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43824 HRS) RESULTS ***

** CONC OF OTHER   IN MICROGRAMS/M**3   **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
Q_NW	1ST HIGHEST VALUE IS	2.19953 AT (294330.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	2ND HIGHEST VALUE IS	2.15759 AT (294330.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	3RD HIGHEST VALUE IS	2.14295 AT (294350.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	4TH HIGHEST VALUE IS	2.11384 AT (294330.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	5TH HIGHEST VALUE IS	2.10497 AT (294350.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	6TH HIGHEST VALUE IS	2.08862 AT (294370.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20

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         7TH HIGHEST VALUE IS       2.06541 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       2.05384 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       2.01796 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

Q_NE     1ST HIGHEST VALUE IS       0.45863 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       0.44683 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       0.43496 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       0.42912 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       0.41818 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       0.40723 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       0.40292 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       0.39280 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       0.38268 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

Q_SE     1ST HIGHEST VALUE IS       0.62586 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       0.61131 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       0.60900 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       0.59890 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       0.59379 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       0.58976 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       0.58545 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       0.58391 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       0.57440 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

Q_SW     1ST HIGHEST VALUE IS       0.30265 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       0.29992 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       0.29766 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       0.29202 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       0.28928 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       0.28686 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       0.28229 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       0.27970 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       0.27732 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***        10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                               ***       14:12:10
                                                                                                                PAGE 226
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                                  *** THE SUMMARY OF MAXIMUM PERIOD ( 43824 HRS) RESULTS ***


                                 ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

                                                                                                        NETWORK
GROUP ID                       AVERAGE CONC               RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

SQ_NNW   1ST HIGHEST VALUE IS       9.36676 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       8.67790 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       8.54281 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       8.06368 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       7.92399 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       7.84581 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       7.37171 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       7.29574 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       6.80325 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

SQ_NNE   1ST HIGHEST VALUE IS       7.77178 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       7.52984 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       7.38278 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       7.24261 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       7.01090 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       6.87760 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       6.76458 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       6.54696 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       6.42435 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

SQ_ENE   1ST HIGHEST VALUE IS       3.64744 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       3.55240 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       3.46252 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       3.42911 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
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         5TH HIGHEST VALUE IS       3.34036 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       3.25506 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       3.23051 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       3.14919 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       3.06638 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

SQ_ESE   1ST HIGHEST VALUE IS       3.72746 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       3.72243 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       3.72034 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       3.49995 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       3.49691 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       3.49368 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       3.29384 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       3.29305 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       3.28855 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                               ***      14:12:10
                                                                                                             PAGE 227

 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                                    *** THE SUMMARY OF MAXIMUM PERIOD ( 43824 HRS) RESULTS ***


                                   ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

                                                                                                    NETWORK
GROUP ID                       AVERAGE CONC              RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

SQ_SSE   1ST HIGHEST VALUE IS       3.01335 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       2.99686 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       2.99419 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       2.81485 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       2.80130 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       2.79640 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       2.63601 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       2.62536 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       2.61847 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

SQ_SSW   1ST HIGHEST VALUE IS       3.38563 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       3.24519 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       3.14968 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       3.12517 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       3.02396 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       2.93820 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       2.91777 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       2.82535 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       2.73156 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

SQ_WSW   1ST HIGHEST VALUE IS      11.00421 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS      10.60000 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS      10.29866 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       9.98475 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       9.94459 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       9.66213 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       9.39186 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       9.35244 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       8.85627 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

SQ_WNW   1ST HIGHEST VALUE IS      12.70334 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS      12.18576 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS      11.83854 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS      11.61735 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS      11.35463 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS      11.06273 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS      10.83229 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS      10.60366 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS      10.13348 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                               ***      14:12:10
                                                                                                             PAGE 228
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 **MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43824 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
SQ_NW	1ST HIGHEST VALUE IS	12.83552 AT (294330.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	2ND HIGHEST VALUE IS	12.43474 AT (294350.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	3RD HIGHEST VALUE IS	12.13172 AT (294330.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	4TH HIGHEST VALUE IS	12.02094 AT (294370.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	5TH HIGHEST VALUE IS	11.78184 AT (294350.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	6TH HIGHEST VALUE IS	11.48492 AT (294330.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	7TH HIGHEST VALUE IS	11.43459 AT (294370.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	8TH HIGHEST VALUE IS	11.16511 AT (294350.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	9TH HIGHEST VALUE IS	10.86255 AT (294370.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	10TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)		
SQ_NE	1ST HIGHEST VALUE IS	3.69988 AT (294370.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	2ND HIGHEST VALUE IS	3.62986 AT (294370.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	3RD HIGHEST VALUE IS	3.57296 AT (294370.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	4TH HIGHEST VALUE IS	3.46634 AT (294350.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	5TH HIGHEST VALUE IS	3.40483 AT (294350.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	6TH HIGHEST VALUE IS	3.34151 AT (294350.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	7TH HIGHEST VALUE IS	3.24651 AT (294330.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	8TH HIGHEST VALUE IS	3.20263 AT (294330.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	9TH HIGHEST VALUE IS	3.14540 AT (294330.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	10TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)		
SQ_SE	1ST HIGHEST VALUE IS	4.45130 AT (294370.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	2ND HIGHEST VALUE IS	4.29575 AT (294350.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	3RD HIGHEST VALUE IS	4.22471 AT (294370.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	4TH HIGHEST VALUE IS	4.16125 AT (294330.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	5TH HIGHEST VALUE IS	4.08350 AT (294350.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	6TH HIGHEST VALUE IS	3.99504 AT (294370.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	7TH HIGHEST VALUE IS	3.94640 AT (294330.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	8TH HIGHEST VALUE IS	3.88723 AT (294350.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	9TH HIGHEST VALUE IS	3.76177 AT (294330.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	10TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)		
SQ_SW	1ST HIGHEST VALUE IS	3.38290 AT (294330.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	2ND HIGHEST VALUE IS	3.27510 AT (294350.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	3RD HIGHEST VALUE IS	3.18429 AT (294330.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	4TH HIGHEST VALUE IS	3.17494 AT (294370.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	5TH HIGHEST VALUE IS	3.09726 AT (294350.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	6TH HIGHEST VALUE IS	3.00435 AT (294370.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	7TH HIGHEST VALUE IS	2.98893 AT (294330.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	8TH HIGHEST VALUE IS	2.92364 AT (294350.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	9TH HIGHEST VALUE IS	2.84883 AT (294370.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	10TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)		

FF *** AERMOD - VERSION 14134 *** *** School EQHO 100515 *** 10/05/15
 *** AERMET - VERSION 14134 *** *** *** 14:12:10
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MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43824 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
HO3O	1ST HIGHEST VALUE IS	0.54377 AT (294370.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	2ND HIGHEST VALUE IS	0.54308 AT (294370.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	3RD HIGHEST VALUE IS	0.54172 AT (294370.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	4TH HIGHEST VALUE IS	0.52059 AT (294350.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	5TH HIGHEST VALUE IS	0.51911 AT (294350.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	6TH HIGHEST VALUE IS	0.51686 AT (294350.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
	7TH HIGHEST VALUE IS	0.49817 AT (294330.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
	8TH HIGHEST VALUE IS	0.49596 AT (294330.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
	9TH HIGHEST VALUE IS	0.49293 AT (294330.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20

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        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,       0.00,     0.00,     0.00,    0.00)

HO90     1ST HIGHEST VALUE IS       0.18426 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       0.18278 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       0.18143 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       0.18009 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       0.17868 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       0.17740 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       0.17610 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       0.17477 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       0.17356 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,       0.00,     0.00,     0.00,    0.00)

H150     1ST HIGHEST VALUE IS       0.34932 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       0.34071 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       0.33644 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       0.33205 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       0.32829 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       0.32444 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       0.32018 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       0.31679 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       0.30925 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,       0.00,     0.00,     0.00,    0.00)

H210     1ST HIGHEST VALUE IS       0.18734 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       0.18707 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       0.18701 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       0.18265 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       0.18252 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       0.18246 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       0.17835 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       0.17825 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       0.17816 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,       0.00,     0.00,     0.00,    0.00)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                          ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                               ***      14:12:10
                                                                                                              PAGE 230
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                                *** THE SUMMARY OF MAXIMUM PERIOD ( 43824 HRS) RESULTS ***


                               ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

                                                                                                    NETWORK
GROUP ID                      AVERAGE CONC              RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

H270     1ST HIGHEST VALUE IS       1.27203 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       1.23917 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       1.23094 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       1.20791 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       1.19992 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       1.18586 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       1.17039 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       1.15699 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       1.12949 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,       0.00,     0.00,     0.00,    0.00)

H330     1ST HIGHEST VALUE IS       1.53835 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       1.52864 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       1.51736 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       1.50086 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       1.49285 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       1.48310 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       1.46432 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       1.45752 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       1.44904 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,       0.00,     0.00,     0.00,    0.00)

SH030    1ST HIGHEST VALUE IS       3.03306 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       2.93805 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       2.93351 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       2.85248 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       2.84263 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       2.82165 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       2.76861 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
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         8TH HIGHEST VALUE IS       2.75686 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       2.68685 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

SH090    1ST HIGHEST VALUE IS       1.86256 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       1.86000 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       1.85856 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       1.78639 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       1.78347 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       1.78322 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       1.71566 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       1.71372 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       1.71254 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                              ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                   ***      14:12:10
                                                                                                                 PAGE 231
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

                                  *** THE SUMMARY OF MAXIMUM PERIOD ( 43824 HRS) RESULTS ***


                                 ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

                                                                                                    NETWORK
GROUP ID                       AVERAGE CONC              RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

SH150    1ST HIGHEST VALUE IS       2.06919 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       2.00588 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       2.00136 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       1.94520 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       1.94446 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       1.94061 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       1.88420 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       1.88099 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       1.82443 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

SH210    1ST HIGHEST VALUE IS       1.29052 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       1.28158 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       1.27408 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       1.24674 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       1.21738 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       1.21078 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       1.21050 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       1.17262 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       1.15333 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

SH270    1ST HIGHEST VALUE IS       5.52496 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       5.35076 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       5.28091 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       5.25282 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       5.11904 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       5.05442 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       5.03021 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       4.90458 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       4.82319 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

SH330    1ST HIGHEST VALUE IS       6.19803 AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         2ND HIGHEST VALUE IS       6.16004 AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         3RD HIGHEST VALUE IS       6.11776 AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
         4TH HIGHEST VALUE IS       5.92540 AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         5TH HIGHEST VALUE IS       5.89023 AT (  294350.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         6TH HIGHEST VALUE IS       5.85572 AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
         7TH HIGHEST VALUE IS       5.67358 AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         8TH HIGHEST VALUE IS       5.63884 AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
         9TH HIGHEST VALUE IS       5.60791 AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
        10TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
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**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
H000 HIGH 1ST HIGH VALUE IS	23.29283	ON 08120206:	AT (294370.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
H060 HIGH 1ST HIGH VALUE IS	24.33519	ON 10011303:	AT (294370.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
H120 HIGH 1ST HIGH VALUE IS	30.25501	ON 09010209:	AT (294370.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
H180 HIGH 1ST HIGH VALUE IS	27.70365	ON 08012417:	AT (294330.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
H240 HIGH 1ST HIGH VALUE IS	27.92534	ON 11120123:	AT (294330.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
H300 HIGH 1ST HIGH VALUE IS	25.16457	ON 07122409:	AT (294330.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
O000 HIGH 1ST HIGH VALUE IS	16.62202	ON 11012718:	AT (294370.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
O030 HIGH 1ST HIGH VALUE IS	16.95284	ON 09013002:	AT (294350.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
O060 HIGH 1ST HIGH VALUE IS	17.15488	ON 08120918:	AT (294370.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
O090 HIGH 1ST HIGH VALUE IS	17.53772	ON 11120601:	AT (294370.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
O120 HIGH 1ST HIGH VALUE IS	18.79987	ON 10031923:	AT (294370.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
O150 HIGH 1ST HIGH VALUE IS	19.67611	ON 07010623:	AT (294370.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
O180 HIGH 1ST HIGH VALUE IS	19.10661	ON 11021523:	AT (294330.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
O210 HIGH 1ST HIGH VALUE IS	19.06044	ON 07010123:	AT (294330.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
O240 HIGH 1ST HIGH VALUE IS	19.33069	ON 07121106:	AT (294330.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
O270 HIGH 1ST HIGH VALUE IS	18.81000	ON 09022007:	AT (294330.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
O300 HIGH 1ST HIGH VALUE IS	18.59181	ON 09013104:	AT (294330.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
O330 HIGH 1ST HIGH VALUE IS	17.76719	ON 09011009:	AT (294370.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
SH000 HIGH 1ST HIGH VALUE IS	408.46302	ON 08111908:	AT (294370.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
SH060 HIGH 1ST HIGH VALUE IS	527.10253	ON 11021408:	AT (294330.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
SH120 HIGH 1ST HIGH VALUE IS	629.06590	ON 10021208:	AT (294370.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
SH180 HIGH 1ST HIGH VALUE IS	723.16441	ON 11032218:	AT (294370.00, 3932550.00, 109.10, 109.10, 0.00)	GC	R20
SH240 HIGH 1ST HIGH VALUE IS	680.56357	ON 08022305:	AT (294330.00, 3932570.00, 109.10, 109.10, 0.00)	GC	R20
SH300 HIGH 1ST HIGH VALUE IS	652.42185	ON 11012817:	AT (294330.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20
SO000 HIGH 1ST HIGH VALUE IS	134.85113	ON 09090907:	AT (294330.00, 3932590.00, 109.10, 109.10, 0.00)	GC	R20

**MODELOPTs: NonDFAULT CONC FLAT and ELEV BETA ADJ_U*

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID

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SO030    HIGH   1ST HIGH VALUE IS     235.78202  ON 09020709: AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20

SO060    HIGH   1ST HIGH VALUE IS     193.32014  ON 09121108: AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20

SO090    HIGH   1ST HIGH VALUE IS     321.76440  ON 11012917: AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20

SO120    HIGH   1ST HIGH VALUE IS     236.21389  ON 10021208: AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20

SO150    HIGH   1ST HIGH VALUE IS     238.04801  ON 07121802: AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20

SO180    HIGH   1ST HIGH VALUE IS     229.36083  ON 11032218: AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20

SO210    HIGH   1ST HIGH VALUE IS     213.38137  ON 10033003: AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20

SO240    HIGH   1ST HIGH VALUE IS     252.76945  ON 08022305: AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20

SO270    HIGH   1ST HIGH VALUE IS     201.68415  ON 09022703: AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20

SO300    HIGH   1ST HIGH VALUE IS     246.29478  ON 11012817: AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20

SO330    HIGH   1ST HIGH VALUE IS     341.51876  ON 08022608: AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20

E_SW     HIGH   1ST HIGH VALUE IS      70.47918  ON 10011817: AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20

E_NW     HIGH   1ST HIGH VALUE IS      57.74229  ON 10122924: AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20

E_NE     HIGH   1ST HIGH VALUE IS      49.94506  ON 09041920: AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20

E_SE     HIGH   1ST HIGH VALUE IS      69.04767  ON 08012619: AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20

SE_SW    HIGH   1ST HIGH VALUE IS    2179.92188  ON 08021708: AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20

SE_NW    HIGH   1ST HIGH VALUE IS    1506.12813  ON 07040307: AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20

SE_NE    HIGH   1ST HIGH VALUE IS    1616.64664  ON 10060406: AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20

SE_SE    HIGH   1ST HIGH VALUE IS    1917.72952  ON 09022607: AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20

E_NNW    HIGH   1ST HIGH VALUE IS      61.82493  ON 07010417: AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20

E_NNE    HIGH   1ST HIGH VALUE IS      54.15094  ON 09040705: AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20

E_ENE    HIGH   1ST HIGH VALUE IS      50.20891  ON 08111502: AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20

E_ESE    HIGH   1ST HIGH VALUE IS      50.03133  ON 07102206: AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20

E_SSE    HIGH   1ST HIGH VALUE IS      57.80854  ON 07102023: AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20

E_SSW    HIGH   1ST HIGH VALUE IS      84.81217  ON 08011624: AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
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 **MODELOPTs: NonDFAULT CONC   FLAT and ELEV   BETA   ADJ_U*

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF OTHER   IN MICROGRAMS/M**3   **

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                                            DATE                                                                    NETWORK
GROUP ID                          AVERAGE CONC     (YYMMDDHH)            RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

E_WSW    HIGH   1ST HIGH VALUE IS      81.70837  ON 08122517: AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20

E_WNW    HIGH   1ST HIGH VALUE IS      72.08996  ON 08122220: AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20

SE_NNW   HIGH   1ST HIGH VALUE IS    1920.46312  ON 10041407: AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20

SE_NNE   HIGH   1ST HIGH VALUE IS    1628.87298  ON 08062706: AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20

SE_ENE   HIGH   1ST HIGH VALUE IS    2048.36021  ON 07111708: AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20

SE_ESE   HIGH   1ST HIGH VALUE IS    2794.07309  ON 11012917: AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20

SE_SSE   HIGH   1ST HIGH VALUE IS    2960.03510  ON 11032218: AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20
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SE_SSW   HIGH   1ST HIGH VALUE IS    2596.83218  ON 07012117: AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20

SE_WSW   HIGH   1ST HIGH VALUE IS    2390.33255  ON 08021108: AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20

SE_WNW   HIGH   1ST HIGH VALUE IS    2148.57846  ON 09111608: AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20

Q_NNW    HIGH   1ST HIGH VALUE IS      32.73926  ON 08012219: AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20

Q_NNE    HIGH   1ST HIGH VALUE IS      29.79843  ON 09022620: AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20

Q_ENE    HIGH   1ST HIGH VALUE IS      35.57033  ON 10020608: AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20

Q_ESE    HIGH   1ST HIGH VALUE IS      35.22195  ON 10020606: AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20

Q_SSE    HIGH   1ST HIGH VALUE IS      40.12240  ON 09121218: AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20

Q_SSW    HIGH   1ST HIGH VALUE IS      45.88194  ON 08022405: AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20

Q_WSW    HIGH   1ST HIGH VALUE IS      46.06648  ON 08010422: AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20

Q_WNW    HIGH   1ST HIGH VALUE IS      40.92188  ON 08021502: AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20

Q_NW     HIGH   1ST HIGH VALUE IS      33.13224  ON 10122920: AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20

Q_NE     HIGH   1ST HIGH VALUE IS      30.99073  ON 11012617: AT (  294370.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20

Q_SE     HIGH   1ST HIGH VALUE IS      39.59533  ON 10122122: AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20

Q_SW     HIGH   1ST HIGH VALUE IS      36.05485  ON 10011817: AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20

SQ_NNW   HIGH   1ST HIGH VALUE IS     897.01205  ON 10041407: AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20

SQ_NNE   HIGH   1ST HIGH VALUE IS     777.85446  ON 08062706: AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20

SQ_ENE   HIGH   1ST HIGH VALUE IS    1243.34175  ON 11012917: AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                                ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                                     ***      14:12:10
                                                                                                                   PAGE 235
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ U*

                                    *** THE SUMMARY OF HIGHEST  1-HR RESULTS ***

                                 ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

GROUP ID                          AVERAGE CONC     DATE (YYMMDDHH)            RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)    OF TYPE  NETWORK GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

SQ_ESE   HIGH   1ST HIGH VALUE IS    1475.23533  ON 11012917: AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20

SQ_SSE   HIGH   1ST HIGH VALUE IS    1390.35276  ON 11032218: AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20

SQ_SSW   HIGH   1ST HIGH VALUE IS    1201.21357  ON 07012117: AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20

SQ_WSW   HIGH   1ST HIGH VALUE IS    1213.92464  ON 08021108: AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20

SQ_WNW   HIGH   1ST HIGH VALUE IS    1080.92040  ON 09111608: AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20

SQ_NW    HIGH   1ST HIGH VALUE IS     765.76346  ON 11061806: AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20

SQ_NE    HIGH   1ST HIGH VALUE IS     864.21523  ON 10060406: AT (  294350.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20

SQ_SE    HIGH   1ST HIGH VALUE IS     969.84508  ON 09022607: AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20

SQ_SW    HIGH   1ST HIGH VALUE IS    1112.67489  ON 08021708: AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20

H030     HIGH   1ST HIGH VALUE IS      24.21693  ON 09013017: AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20

H090     HIGH   1ST HIGH VALUE IS      24.99882  ON 10020607: AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20

H150     HIGH   1ST HIGH VALUE IS      30.67894  ON 11021508: AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20

H210     HIGH   1ST HIGH VALUE IS      29.25971  ON 11011509: AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20

H270     HIGH   1ST HIGH VALUE IS      29.02222  ON 07120716: AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20
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H33O     HIGH   1ST HIGH VALUE IS      29.62231  ON 09011009: AT (  294370.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20

SH03O    HIGH   1ST HIGH VALUE IS     438.19389  ON 09020709: AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20

SH09O    HIGH   1ST HIGH VALUE IS     840.29032  ON 11012917: AT (  294370.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20

SH15O    HIGH   1ST HIGH VALUE IS     639.63417  ON 07121802: AT (  294350.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20

SH21O    HIGH   1ST HIGH VALUE IS     568.89178  ON 10033003: AT (  294330.00,  3932570.00,   109.10,   109.10,    0.00)  GC  R20

SH27O    HIGH   1ST HIGH VALUE IS     574.88302  ON 07021408: AT (  294330.00,  3932550.00,   109.10,   109.10,    0.00)  GC  R20

SH33O    HIGH   1ST HIGH VALUE IS     570.98886  ON 08022608: AT (  294330.00,  3932590.00,   109.10,   109.10,    0.00)  GC  R20


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
FF *** AERMOD - VERSION  14134 ***   ***  School EQHO 100515                                      ***       10/05/15
 *** AERMET - VERSION  14134 ***   ***                                                          ***       14:12:10
                                                                                                          PAGE 236
 **MODELOPTs:   NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of          173 Warning Message(s)
 A Total of         8383 Informational Message(s)

 A Total of        43824 Hours Were Processed

 A Total of         8383 Calm Hours Identified

 A Total of            0 Missing Hours Identified (  0.00 Percent)

    ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


    ********   WARNING MESSAGES   ********
 CO W200       6       TITLES: Missing Parameter(s). No Options Specified For         TITLETWO
 SO W320     114        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     115        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     116        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     117        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     118        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     119        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     120        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     121        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     122        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     123        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     124        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     125        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     126        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     127        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     128        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     129        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     130        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     131        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     150        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     151        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     152        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
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 SO W320     174        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     175        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
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 SO W320     176        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     177        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
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 SO W320     185        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     198        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
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 SO W320     200        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     201        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     202        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320     203        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 RE W213      20       RECART: ELEV Input Inconsistent With Option: Input Ignored         R20
 ME W187     321       MEOPEN: ADJ_U* Beta Option for Low Winds used in AERMET      Non-DFAULT
 OU W565     397       OUPLOT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
 OU W565     398       OUPLOT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
 OU W565     399       OUPLOT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
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 OU W565     483       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
 OU W565     484       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
 OU W565     485       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
 OU W565     486       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
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 OU W565     501       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
 OU W565     502       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
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 OU W565     514       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
 OU W565     515       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
 OU W565     516       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
 OU W565     517       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
 OU W565     518       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE

    ***********************************
    *** AERMOD Finishes Successfully ***
    ***********************************
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    ************ Error Message List *************

    PW     --- Pathway
    Code   --- Error Type + Error Code
    L#     --- The Line Number Where Error Occurs
    ModNam --- Module Name In Which Error Occurs
    Hints  --- Hints For The Possible Solution
    *****************************************

PW CODE    L#      MODNAM                      ERROR MESSAGES                      HINTS
-- ---- ------- ------------  -------------------------------------------------- ------------

CO W200       6       TITLES: Missing Parameter(s). No Options Specified For         TITLETWO
SO W320     114        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     115        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     116        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     117        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     118        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     119        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     120        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     121        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     122        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     123        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     124        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     125        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     126        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     127        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     128        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     129        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     130        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     131        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     150        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     151        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     152        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     153        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     158        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     159        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     160        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     161        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     162        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     163        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     164        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     165        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     174        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     175        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     176        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     177        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     178        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     179        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     180        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     181        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     182        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     183        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     184        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     185        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     198        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     199        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     200        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     201        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     202        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     203        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
RE W213      20      RECART: ELEV Input Inconsistent With Option: Input Ignored          R2O
ME W187     321       MEOPEN: ADJ_U* Beta Option for Low Winds used in AERMET      Non-DFAULT
OU W565     397       OUPLOT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565     398       OUPLOT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565     399       OUPLOT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565     400       OUPLOT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565     401       OUPLOT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565     402       OUPLOT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565     403       OUPLOT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
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OU W565     405       OUPLOT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
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OU W565     408       OUPLOT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565     409       OUPLOT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
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OU W565     410       OUPLOT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565     411       OUPLOT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565     412       OUPLOT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
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OU W565     421       OUPLOT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565     422       OUPLOT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565     423       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565     424       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
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OU W565     486       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
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OU W565     487       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
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OU W565     516       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565     517       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565     518       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
MX I440      40       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007010216
MX I440      44       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007010220
MX I440      45       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007010221
MX I440      46       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007010222
MX I440      47       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007010223
MX I440      48       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007010224
MX I440      49       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007010301
MX I440      50       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007010302
MX I440      51       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007010303
MX I440      52       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007010304
MX I440      53       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007010305
MX I440      54       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007010306
MX I440      55       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007010307
MX I440      59       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007010311
MX I440      60       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007010312
MX I440      61       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007010313
MX I440      62       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007010314
MX I440      63       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007010315
MX I440      64       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007010316
MX I440      65       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007010317
MX I440      66       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007010318
MX I440      67       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007010319
MX I440      68       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007010320
MX I440      69       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007010321
MX I440      70       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007010322
MX I440      71       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007010323
MX I440     188       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007010820
MX I440     201       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007010909
MX I440     210       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007010918
MX I440     211       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007010919
MX I440     212       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007010920
MX I440     213       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007010921
MX I440     214       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007010922
MX I440     215       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007010923
MX I440     216       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007010924
MX I440     217       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007011001
MX I440     218       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007011002
MX I440     224       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007011008
MX I440     315       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007011403
MX I440     316       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007011404
MX I440     317       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007011405
MX I440     318       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007011406
MX I440     319       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007011407
MX I440     320       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007011408
MX I440     321       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007011409
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MX I440     322       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007011410
MX I440     323       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007011411
MX I440     324       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007011412
MX I440     325       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007011413
MX I440     329       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007011417
MX I440     332       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007011420
MX I440     347       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007011511
MX I440     357       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007011521
MX I440     369       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007011609
MX I440     374       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007011614
MX I440     384       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007011624
MX I440     385       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007011701
MX I440     402       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007011718
MX I440     403       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007011719
MX I440     409       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007011801
MX I440     410       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007011802
MX I440     424       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007011816
MX I440     430       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007011822
MX I440     451       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007011919
MX I440     452       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007011920
MX I440     455       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007011923
MX I440     475       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007012019
MX I440     476       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007012020
MX I440     515       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007012211
MX I440     524       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007012220
MX I440     525       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007012221
MX I440     526       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007012222
MX I440     527       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007012223
MX I440     528       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007012224
MX I440     529       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007012301
MX I440     546       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007012318
MX I440     547       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007012319
MX I440     548       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007012320
MX I440     549       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007012321
MX I440     556       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007012404
MX I440     569       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007012417
MX I440     570       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007012418
MX I440     571       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007012419
MX I440     573       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007012421
MX I440     591       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007012515
MX I440     595       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007012519
MX I440     596       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007012520
MX I440     597       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007012521
MX I440     598       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007012522
MX I440     634       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007012710
MX I440     635       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007012711
MX I440     636       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007012712
MX I440     637       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007012713
MX I440     644       CHKCLM: Calm Hour Identified in Meteorology Data File at     2007012720
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MX I440   19513       CHKCLM: Calm Hour Identified in Meteorology Data File at     2009032401
MX I440   19531       CHKCLM: Calm Hour Identified in Meteorology Data File at     2009032419
MX I440   19608       CHKCLM: Calm Hour Identified in Meteorology Data File at     2009032724
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MX I440   25781       CHKCLM: Calm Hour Identified in Meteorology Data File at     2009121005
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MX I440   41365       CHKCLM: Calm Hour Identified in Meteorology Data File at     2011092013
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MX I440   42010       CHKCLM: Calm Hour Identified in Meteorology Data File at     2011101710
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MX I440   42014       CHKCLM: Calm Hour Identified in Meteorology Data File at     2011101714
MX I440   42043       CHKCLM: Calm Hour Identified in Meteorology Data File at     2011101819
MX I440   42056       CHKCLM: Calm Hour Identified in Meteorology Data File at     2011101908
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HARP POINT OF MAXIMUM IMPACT FOR CHRONIC RISK 10/8/2015 12:24:39 PM

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2	2	CARTGRID	294350	3932550	1.8884000e-03
3	3	CARTGRID	294370	3932550	1.8881000e-03
4	6	CARTGRID	294370	3932570	1.8758000e-03
5	4	CARTGRID	294330	3932570	1.8754000e-03
6	5	CARTGRID	294350	3932570	1.8734000e-03
7	9	CARTGRID	294370	3932590	1.8610000e-03
8	8	CARTGRID	294350	3932590	1.8547000e-03
9	7	CARTGRID	294330	3932590	1.8524000e-03

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WASCO SW, CA-24000  LAT::   35 30  0.0000 N LONG:: -119 22 30.0000 W SCALE:: 24000 (SDTS2DEM v.0.018)                                                
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BUTTONWILLOW, CA-24000  LAT::   35 22 30.0000 N LONG:: -119 22 30.0000 W SCALE:: 24000 (SDTS2DEM v.0.018)                                                    1     1     1    11  0.0000000000000000D+000  0.0000000000000000D+000  0.0000000000000000D+000
0.0000000000000000D+000  0.0000000000000000D+000  0.0000000000000000D+000  0.0000000000000000D+000  0.0000000000000000D+000  0.0000000000000000D+000  0.0000000000000000D+000  0.0000000000000000D+000  0.0000000000000000D+000  0.0000000000000000D+000
0.0000000000000000D+000  0.0000000000000000D+000      2     1     4  2.728872629340000D+005  3.917301393528000D+006  2.732383120300000D+005  3.931168416411000D+006  2.845785838660000D+005  3.930888089882000D+006  2.842451182770000D+005
3.917021491730000D+006  2.540000000000000D+002  3.100000000000000D+002  0.000000000000000D+000      03.00000e+0013.00000e+0011.00000e+000     1   389                          2
1                                                                                                                                                  1     1    30     1  2.729100000000000D+005  3.917310000000000D+006  0.0000000000000000D+000
2.640000000000000D+002  2.650000000000000D+002   264   264   264   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265
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7	1	1	1	1	-1.2	0.073	-9.000	-9.000	-999.	48.	29.1	0.0800	0.72	1.00	0.50	311.0	15.0	278.8	2.0	0	0.00	85.	1016.	3	NAD-SFC NoSubs
7	1	1	1	2	-2.8	0.085	-9.000	-9.000	-999.	59.	19.5	0.0800	0.72	1.00	1.00	308.0	15.0	278.2	2.0	0	0.00	86.	1016.	3	NAD-SFC NoSubs
7	1	1	1	3	-2.8	0.085	-9.000	-9.000	-999.	59.	19.5	0.0800	0.72	1.00	1.00	314.0	15.0	278.0	2.0	0	0.00	88.	1016.	3	NAD-SFC NoSubs
7	1	1	1	4	-2.8	0.085	-9.000	-9.000	-999.	59.	19.5	0.0800	0.72	1.00	1.00	313.0	15.0	277.6	2.0	0	0.00	89.	1016.	3	NAD-SFC NoSubs
7	1	1	1	5	-1.2	0.073	-9.000	-9.000	-999.	48.	29.2	0.0800	0.72	1.00	0.50	303.0	15.0	277.2	2.0	0	0.00	91.	1016.	3	NAD-SFC NoSubs
7	1	1	1	6	-0.9	0.065	-9.000	-9.000	-999.	39.	25.8	0.0200	0.72	1.00	0.50	252.0	15.0	277.0	2.0	0	0.00	93.	1016.	3	NAD-SFC NoSubs
7	1	1	1	7	-1.0	0.065	-9.000	-9.000	-999.	39.	25.8	0.0200	0.72	1.00	0.50	245.0	15.0	276.8	2.0	0	0.00	94.	1016.	3	NAD-SFC NoSubs
7	1	1	1	8	-2.0	0.071	-9.000	-9.000	-999.	46.	16.3	0.0200	0.72	0.61	1.00	243.0	15.0	276.8	2.0	0	0.00	94.	1016.	2	NAD-SFC NoSubs
7	1	1	1	9	14.3	0.095	0.291	0.007	62.	70.	-5.4	0.0420	0.72	0.34	1.00	277.0	15.0	278.2	2.0	0	0.00	86.	1016.	2	NAD-SFC NoSubs
7	1	1	1	10	54.6	0.161	0.686	0.005	214.	155.	-6.9	0.0800	0.72	0.25	1.50	301.0	15.0	280.2	2.0	0	0.00	75.	1015.	2	NAD-SFC NoSubs
7	1	1	1	11	83.5	0.168	0.978	0.005	405.	165.	-5.1	0.0800	0.72	0.22	1.50	304.0	15.0	281.2	2.0	0	0.00	67.	1015.	2	NAD-SFC NoSubs
7	1	1	1	12	98.6	0.153	1.189	0.007	617.	144.	-3.3	0.0420	0.72	0.21	1.50	296.0	15.0	282.4	2.0	0	0.00	61.	1014.	2	NAD-SFC NoSubs
7	1	1	1	13	99.0	0.171	1.257	0.008	726.	170.	-4.6	0.0800	0.72	0.21	1.50	313.0	15.0	283.2	2.0	0	0.00	58.	1013.	2	NAD-SFC NoSubs
7	1	1	1	14	84.9	0.168	1.231	0.008	795.	166.	-5.1	0.0800	0.72	0.22	1.50	329.0	15.0	284.0	2.0	0	0.00	55.	1013.	2	NAD-SFC NoSubs
7	1	1	1	15	56.6	0.166	1.096	0.008	839.	163.	-7.3	0.0950	0.72	0.25	1.50	342.0	15.0	284.4	2.0	0	0.00	54.	1012.	2	NAD-SFC NoSubs
7	1	1	1	16	16.9	0.070	0.737	0.008	851.	50.	-1.9	0.0950	0.72	0.34	0.50	334.0	15.0	284.5	2.0	0	0.00	56.	1012.	2	NAD-SFC NoSubs
7	1	1	1	17	-0.9	0.062	-9.000	-9.000	-999.	37.	24.9	0.0240	0.72	0.60	0.50	161.0	15.0	283.9	2.0	0	0.00	60.	1012.	2	NAD-SFC NoSubs
7	1	1	1	18	-2.2	0.075	-9.000	-9.000	-999.	49.	16.9	0.0240	0.72	1.00	1.00	157.0	15.0	282.8	2.0	0	0.00	66.	1012.	2	NAD-SFC NoSubs
7	1	1	1	19	-7.3	0.117	-9.000	-9.000	-999.	96.	19.6	0.0240	0.72	1.00	2.10	174.0	15.0	281.8	2.0	0	0.00	70.	1012.	2	NAD-SFC NoSubs
7	1	1	1	20	-11.3	0.146	-9.000	-9.000	-999.	134.	24.8	0.0240	0.72	1.00	2.60	177.0	15.0	281.1	2.0	0	0.00	73.	1013.	2	NAD-SFC NoSubs
7	1	1	1	21	-11.1	0.144	-9.000	-9.000	-999.	131.	24.2	0.0220	0.72	1.00	2.60	190.0	15.0	280.8	2.0	0	0.00	73.	1013.	2	NAD-SFC NoSubs
7	1	1	1	22	-11.1	0.144	-9.000	-9.000	-999.	131.	24.2	0.0220	0.72	1.00	2.60	202.0	15.0	280.2	2.0	0	0.00	73.	1013.	2	NAD-SFC NoSubs
7	1	1	1	23	-11.1	0.144	-9.000	-9.000	-999.	131.	24.2	0.0220	0.72	1.00	2.60	210.0	15.0	280.0	2.0	0	0.00	73.	1013.	2	NAD-SFC NoSubs
7	1	1	1	24	-16.1	0.174	-9.000	-9.000	-999.	175.	29.7	0.0220	0.72	1.00	3.10	220.0	15.0	279.8	2.0	0	0.00	72.	1013.	2	NAD-SFC NoSubs
7	1	2	2	1	-21.9	0.205	-9.000	-9.000	-999.	222.	35.3	0.0220	0.72	1.00	3.60	236.0	15.0	279.6	2.0	0	0.00	71.	1013.	2	NAD-SFC NoSubs
7	1	2	2	2	-21.4	0.202	-9.000	-9.000	-999.	217.	34.5	0.0200	0.72	1.00	3.60	252.0	15.0	279.2	2.0	0	0.00	71.	1013.	2	NAD-SFC NoSubs
7	1	2	2	3	-26.0	0.231	-9.000	-9.000	-999.	267.	43.2	0.0200	0.72	1.00	4.10	252.0	15.0	278.8	2.0	0	0.00	72.	1013.	2	NAD-SFC NoSubs
7	1	2	2	4	-26.0	0.231	-9.000	-9.000	-999.	267.	43.1	0.0200	0.72	1.00	4.10	250.0	15.0	278.4	2.0	0	0.00	73.	1013.	2	NAD-SFC NoSubs
7	1	2	2	5	-26.0	0.231	-9.000	-9.000	-999.	267.	43.1	0.0200	0.72	1.00	4.10	256.0	15.0	278.1	2.0	0	0.00	72.	1013.	2	NAD-SFC NoSubs
7	1	2	2	6	-21.5	0.202	-9.000	-9.000	-999.	217.	34.4	0.0200	0.72	1.00	3.60	257.0	15.0	278.0	2.0	0	0.00	71.	1013.	2	NAD-SFC NoSubs
7	1	2	2	7	-15.8	0.172	-9.000	-9.000	-999.	171.	28.9	0.0200	0.72	1.00	3.10	259.0	15.0	277.8	2.0	0	0.00	70.	1013.	2	NAD-SFC NoSubs
7	1	2	2	8	-10.4	0.142	-9.000	-9.000	-999.	129.	25.0	0.0200	0.72	0.61	2.60	256.0	15.0	277.8	2.0	0	0.00	69.	1014.	2	NAD-SFC NoSubs
7	1	2	2	9	14.4	0.166	0.283	0.011	57.	162.	-28.5	0.0420	0.72	0.34	2.10	270.0	15.0	279.0	2.0	0	0.00	65.	1014.	2	NAD-SFC NoSubs
7	1	2	2	10	54.9	0.184	0.617	0.011	155.	189.	-10.2	0.0420	0.72	0.25	2.10	291.0	15.0	281.5	2.0	0	0.00	56.	1014.	2	NAD-SFC NoSubs
7	1	2	2	11	84.2	0.168	0.873	0.011	285.	166.	-5.1	0.0800	0.72	0.22	1.50	305.0	15.0	283.5	2.0	0	0.00	50.	1013.	2	NAD-SFC NoSubs
7	1	2	2	12	99.5	0.171	1.036	0.011	404.	170.	-4.6	0.0800	0.72	0.21	1.50	311.0	15.0	285.1	2.0	0	0.00	45.	1012.	2	NAD-SFC NoSubs
7	1	2	2	13	100.0	0.172	1.103	0.011	484.	171.	-4.6	0.0800	0.72	0.21	1.50	329.0	15.0	285.8	2.0	0	0.00	43.	1011.	2	NAD-SFC NoSubs
7	1	2	2	14	85.8	0.220	1.090	0.011	544.	247.	-11.2	0.0950	0.72	0.22	2.10	337.0	15.0	286.0	2.0	0	0.00	44.	1011.	2	NAD-SFC NoSubs
7	1	2	2	15	57.5	0.212	0.975	0.011	580.	234.	-14.8	0.0950	0.72	0.25	2.10	350.0	15.0	285.8	2.0	0	0.00	50.	1010.	2	NAD-SFC NoSubs
7	1	2	2	16	17.7	-9.000	-9.000	-9.000	590.	-999.	-99999.0	0.0471	0.72	0.34	0.00	0.0	15.0	285.0	2.0	0	0.00	55.	1010.	2	NAD-SFC NoSubs
7	1	2	2	17	-10.0	0.151	-9.000	-9.000	-999.	141.	31.0	0.0960	0.72	0.59	2.10	8.0	15.0	284.0	2.0	0	0.00	59.	1010.	2	NAD-SFC NoSubs
7	1	2	2	18	-2.9	0.087	-9.000	-9.000	-999.	62.	20.0	0.0950	0.72	1.00	1.00	351.0	15.0	283.2	2.0	0	0.00	63.	1010.	2	NAD-SFC NoSubs
7	1	2	2	19	-1.3	0.075	-9.000	-9.000	-999.	49.	29.7	0.0950	0.72	1.00	0.50	342.0	15.0	282.5	2.0	0	0.00	67.	1010.	2	NAD-SFC NoSubs
7	1	2	2	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	281.9	2.0	0	0.00	70.	1010.	2	NAD-SFC NoSubs
7	1	2	2	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	281.4	2.0	0	0.00	73.	1010.	2	NAD-SFC NoSubs
7	1	2	2	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	281.0	2.0	0	0.00	75.	1010.	2	NAD-SFC NoSubs
7	1	2	2	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	280.8	2.0	0	0.00	77.	1010.	2	NAD-SFC NoSubs
7	1	2	2	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	280.5	2.0	0	0.00	78.	1010.	2	NAD-SFC NoSubs
7	1	3	3	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	280.2	2.0	0	0.00	80.	1010.	2	NAD-SFC NoSubs
7	1	3	3	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	280.0	2.0	0	0.00	81.	1010.	2	NAD-SFC NoSubs
7	1	3	3	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	279.8	2.0	0	0.00	82.	1009.	2	NAD-SFC NoSubs
7	1	3	3	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	279.8	2.0	0	0.00	83.	1009.	2	NAD-SFC NoSubs
7	1	3	3	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	279.6	2.0	0	0.00	83.	1009.	2	NAD-SFC NoSubs
7	1	3	3	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	279.5	2.0	0	0.00	83.	1009.	2	NAD-SFC NoSubs
7	1	3	3	7	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	279.5	2.0	0	0.00	83.	1009.	2	NAD-SFC NoSubs
7	1	3	3	8	-1.0	0.066	-9.000	-9.000	-999.	41.	26.6	0.0400	0.72	0.61	0.50	89.0	15.0	279.4	2.0	0	0.00	84.	1009.	2	NAD-SFC NoSubs
7	1	3	3	9	14.5	0.059	0.311	0.015	74.	35.	-1.3	0.0400	0.72	0.34	0.50	88.0	15.0	279.5	2.0	0	0.00	83.	1010.	2	NAD-SFC NoSubs
7	1	3	3	10	54.8	0.067	0.635	0.014	168.	41.	-1.0	0.0310	0.72	0.25	0.50	104.0	15.0	280.6	2.0	0	0.00	78.	1010.	2	NAD-SFC NoSubs
7	1	3	3	11	84.1	-9.000	-9.000	-9.000	267.	-999.	-99999.0	0.0471	0.72	0.22	0.00	0.0	15.0	282.2	2.0	0	0.00	66.	1010.	2	NAD-SFC NoSubs
7	1	3	3	12	99.5	-9.000	-9.000	-9.000	358.	-999.	-99999.0	0.0471	0.72	0.21	0.00	0.0	15.0	283.5	2.0	0	0.00	59.	1010.	2	NAD-SFC NoSubs
7	1	3	3	13	100.2	-9.000	-9.000	-9.000	435.	-999.	-99999.0	0.0471	0.72	0.21	0.00	0.0	15.0	284.8	2.0	0	0.00	56.	1009.	2	NAD-SFC NoSubs
7	1	3	3	14	86.3	-9.000	-9.000	-9.000	493.	-999.	-99999.0	0.0471	0.72	0.22	0.00	0.0	15.0	285.8	2.0	0	0.00	51.	1009.	2	NAD-SFC NoSubs
7	1	3	3	15	58.3	-9.000	-9.000	-9.000	530.	-999.	-99999.0	0.0471	0.72	0.25	0.00	0.0	15.0	286.2	2.0	0	0.00	50.	1008.	2	NAD-SFC NoSubs
7	1	3	3	16	18.6	-9.000	-9.000	-9.000	541.	-999.	-99999.0	0.0471	0.72	0.33	0.00	0.0	15.0	286.2	2.0	0	0.00	52.	1007.	2	NAD-SFC NoSubs
7	1	3	3	17	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	0.59	0.00	0.0	15.0	285.5	2.0	0	0.00	57.	1007.	2	NAD-SFC NoSubs
7	1	3	3	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	284.2	2.0	0	0.00	63.	1007.	2	NAD-SFC NoSubs
7	1	3	3	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	283.2	2.0	0	0.00	68.	1007.	2	NAD-SFC NoSubs
7	1	3	3	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	282.2	2.0	0	0.00	72.	1007.	2	NAD-SFC NoSubs
7	1	3	3	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	281.5	2.0	0	0.00	76.	1007.	2	NAD-SFC NoSubs
7	1	3	3	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	280.9	2.0	0	0.00	78.	1008.	2	NAD-SFC NoSubs
7	1	3	3	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	280.4	2.0	0	0.00	82.	1008.	2	NAD-SFC NoSubs
7	1	3	3	24	-1.0	0.066	-9.000	-9.000	-999.	40.	26.2	0.0220	0.72	1.00	0.50	197.0	15.0	279.9	2.0	0	0.00	89.	1008.	2	NAD-SFC NoSubs
7	1	4	4	1	-2.2	0.074	-9.000	-9.000	-999.	48.	16.7	0.0220	0.72	1.00	1.00	186.0	15.0	279.5	2.0	0	0.00	97.	1007.	3	NAD-SFC NoSubs
7	1	4	4	2	-2.2	0.074	-9.000	-9.000	-999.	49.	16.9	0.0240	0.72	1.00	1.00	156.0	15.0	279.2	2.0	0	0.00	100.	1007.	3	NAD-SFC NoSubs
7	1	4	4	3	-4.0	0.090	-9.000	-9.000	-999.	64.	16.1	0.0280	0.72	1.00	1.50	148.0	15.0	279.5	2.0	0	0.00	100.	1007.	3	NAD-SFC NoSubs
7	1	4	4	4	-11.4	0.150	-9.000	-9.000	-999.	140.	26.7	0.0280	0.72	1.00	2.60	129.0	15.0	279.9	2.0	0	0.00	100.	1007.	4	NAD-SFC NoSubs

7	1	4	4	5	-22.2	0.213	-9.000	-9.000	-999.	237.	39.3	0.0280	0.72	1.00	3.60	141.0	15.0	280.5	2.0	0	0.00	100.	1006.	4	NAD-SFC	NoSubs
7	1	4	4	6	-22.1	0.213	-9.000	-9.000	-999.	237.	39.4	0.0280	0.72	1.00	3.60	142.0	15.0	281.0	2.0	0	0.00	100.	1006.	4	NAD-SFC	NoSubs
7	1	4	4	7	-19.8	0.214	-9.000	-9.000	-999.	238.	44.5	0.0280	0.72	1.00	3.60	136.0	15.0	281.1	2.0	0	0.00	100.	1006.	6	NAD-SFC	NoSubs
7	1	4	4	8	-11.6	0.217	-9.000	-9.000	-999.	242.	79.1	0.0280	0.72	0.62	3.60	138.0	15.0	281.2	2.0	0	0.00	100.	1006.	10	NAD-SFC	NoSubs
7	1	4	4	9	-0.3	0.229	-9.000	-9.000	-999.	262.	3137.6	0.0280	0.72	0.34	3.60	136.0	15.0	281.6	2.0	0	0.00	97.	1006.	10	NAD-SFC	NoSubs
7	1	4	4	10	38.8	0.287	0.473	0.006	98.	368.	-54.5	0.0280	0.72	0.25	4.10	137.0	15.0	282.2	2.0	0	0.25	94.	1006.	8	NAD-SFC	NoSubs
7	1	4	4	11	17.3	0.217	0.403	0.008	135.	245.	-53.0	0.0280	0.72	0.22	3.10	137.0	15.0	282.2	2.0	0	0.76	95.	1006.	10	NAD-SFC	NoSubs
7	1	4	4	12	21.2	0.124	0.466	0.009	170.	108.	-8.0	0.0280	0.72	0.21	1.50	123.0	15.0	282.8	2.0	0	0.76	100.	1006.	10	NAD-SFC	NoSubs
7	1	4	4	13	97.7	0.177	0.923	0.007	289.	178.	-5.1	0.0950	0.72	0.21	1.50	345.0	15.0	283.2	2.0	0	0.51	100.	1005.	5	NAD-SFC	NoSubs
7	1	4	4	14	87.0	0.330	0.960	0.006	365.	455.	-37.1	0.0950	0.72	0.22	3.60	332.0	15.0	283.8	2.0	0	0.00	99.	1006.	4	NAD-SFC	NoSubs
7	1	4	4	15	58.9	0.512	0.906	0.009	453.	880.	-204.9	0.0950	0.72	0.25	6.20	341.0	15.0	285.1	2.0	0	0.00	87.	1006.	5	NAD-SFC	NoSubs
7	1	4	4	16	21.2	0.379	0.666	0.007	499.	574.	-229.4	0.0950	0.72	0.33	4.60	350.0	15.0	285.1	2.0	0	0.00	85.	1005.	6	NAD-SFC	NoSubs
7	1	4	4	17	-25.2	0.349	-9.000	-9.000	-999.	495.	150.8	0.0950	0.72	0.58	4.60	353.0	15.0	283.6	2.0	0	0.00	90.	1006.	6	NAD-SFC	NoSubs
7	1	4	4	18	-32.7	0.387	-9.000	-9.000	-999.	578.	159.1	0.0950	0.72	1.00	5.10	339.0	15.0	282.9	2.0	0	0.00	89.	1006.	7	NAD-SFC	NoSubs
7	1	4	4	19	-34.3	0.373	-9.000	-9.000	-999.	547.	135.9	0.0800	0.72	1.00	5.10	327.0	15.0	282.8	2.0	0	0.00	82.	1007.	6	NAD-SFC	NoSubs
7	1	4	4	20	-32.9	0.335	-9.000	-9.000	-999.	465.	102.3	0.0800	0.72	1.00	4.60	329.0	15.0	282.2	2.0	0	0.00	81.	1007.	5	NAD-SFC	NoSubs
7	1	4	4	21	-25.3	0.298	-9.000	-9.000	-999.	391.	93.7	0.0800	0.72	1.00	4.10	317.0	15.0	281.8	2.0	0	0.00	79.	1007.	7	NAD-SFC	NoSubs
7	1	4	4	22	-25.3	0.298	-9.000	-9.000	-999.	390.	93.6	0.0800	0.72	1.00	4.10	309.0	15.0	281.5	2.0	0	0.00	77.	1008.	7	NAD-SFC	NoSubs
7	1	4	4	23	-28.6	0.336	-9.000	-9.000	-999.	466.	118.8	0.0800	0.72	1.00	4.60	312.0	15.0	281.2	2.0	0	0.00	77.	1008.	7	NAD-SFC	NoSubs
7	1	4	4	24	-36.8	0.372	-9.000	-9.000	-999.	545.	126.3	0.0800	0.72	1.00	5.10	308.0	15.0	281.1	2.0	0	0.00	76.	1008.	5	NAD-SFC	NoSubs
7	1	5	5	1	-38.8	0.372	-9.000	-9.000	-999.	545.	119.4	0.0800	0.72	1.00	5.10	325.0	15.0	280.0	2.0	0	0.00	80.	1009.	4	NAD-SFC	NoSubs
7	1	5	5	2	-36.4	0.334	-9.000	-9.000	-999.	464.	92.1	0.0800	0.72	1.00	4.60	324.0	15.0	278.6	2.0	0	0.00	82.	1010.	3	NAD-SFC	NoSubs
7	1	5	5	3	-28.2	0.258	-9.000	-9.000	-999.	318.	55.0	0.0800	0.72	1.00	3.60	317.0	15.0	277.9	2.0	0	0.00	81.	1010.	3	NAD-SFC	NoSubs
7	1	5	5	4	-5.3	0.105	-9.000	-9.000	-999.	104.	19.8	0.0800	0.72	1.00	1.50	310.0	15.0	277.6	2.0	0	0.00	78.	1010.	2	NAD-SFC	NoSubs
7	1	5	5	5	-2.2	0.075	-9.000	-9.000	-999.	49.	16.8	0.0220	0.72	1.00	1.00	202.0	15.0	277.2	2.0	0	0.00	76.	1011.	2	NAD-SFC	NoSubs
7	1	5	5	6	-3.9	0.087	-9.000	-9.000	-999.	62.	15.4	0.0220	0.72	1.00	1.50	185.0	15.0	277.0	2.0	0	0.00	73.	1011.	2	NAD-SFC	NoSubs
7	1	5	5	7	-2.2	0.075	-9.000	-9.000	-999.	49.	16.8	0.0220	0.72	1.00	1.00	182.0	15.0	276.8	2.0	0	0.00	69.	1012.	2	NAD-SFC	NoSubs
7	1	5	5	8	-2.8	0.085	-9.000	-9.000	-999.	59.	19.7	0.0950	0.72	0.62	1.00	355.0	15.0	276.8	2.0	0	0.00	64.	1013.	2	NAD-SFC	NoSubs
7	1	5	5	9	14.5	0.613	0.330	0.005	90.	1153.	-1440.5	0.0950	0.72	0.34	7.70	339.0	15.0	279.2	2.0	0	0.00	50.	1014.	2	NAD-SFC	NoSubs
7	1	5	5	10	55.3	0.797	0.784	0.005	316.	1705.	-829.4	0.0800	0.72	0.25	10.30	328.0	15.0	281.6	2.0	0	0.00	39.	1015.	2	NAD-SFC	NoSubs
7	1	5	5	11	84.8	0.828	1.071	0.005	525.	1806.	-606.5	0.0950	0.72	0.22	10.30	338.0	15.0	283.0	2.0	0	0.00	32.	1015.	2	NAD-SFC	NoSubs
7	1	5	5	12	100.3	0.754	1.236	0.005	682.	1584.	-387.3	0.0950	0.72	0.21	9.30	339.0	15.0	283.9	2.0	0	0.00	29.	1015.	2	NAD-SFC	NoSubs
7	1	5	5	13	101.1	0.687	1.285	0.005	761.	1375.	-290.1	0.0800	0.72	0.21	8.70	328.0	15.0	284.6	2.0	0	0.00	27.	1016.	2	NAD-SFC	NoSubs
7	1	5	5	14	87.3	0.575	1.256	0.005	823.	1064.	-197.7	0.0800	0.72	0.22	7.20	320.0	15.0	285.0	2.0	0	0.00	27.	1016.	2	NAD-SFC	NoSubs
7	1	5	5	15	59.2	0.418	1.121	0.005	863.	673.	-111.5	0.0800	0.72	0.25	5.10	325.0	15.0	284.9	2.0	0	0.00	34.	1016.	2	NAD-SFC	NoSubs
7	1	5	5	16	19.3	0.223	0.776	0.005	874.	291.	-52.1	0.0800	0.72	0.33	2.60	308.0	15.0	283.9	2.0	0	0.00	42.	1017.	2	NAD-SFC	NoSubs
7	1	5	5	17	-1.9	0.070	-9.000	-9.000	-999.	88.	16.2	0.0240	0.72	0.58	1.00	169.0	15.0	283.0	2.0	0	0.00	43.	1017.	2	NAD-SFC	NoSubs
7	1	5	5	18	-4.1	0.090	-9.000	-9.000	-999.	65.	16.1	0.0280	0.72	1.00	1.50	136.0	15.0	282.1	2.0	0	0.00	45.	1018.	2	NAD-SFC	NoSubs
7	1	5	5	19	-1.0	0.066	-9.000	-9.000	-999.	41.	26.3	0.0240	0.72	1.00	0.50	157.0	15.0	281.2	2.0	0	0.00	47.	1018.	2	NAD-SFC	NoSubs
7	1	5	5	20	-1.0	0.066	-9.000	-9.000	-999.	40.	26.1	0.0220	0.72	1.00	0.50	227.0	15.0	280.4	2.0	0	0.00	48.	1018.	2	NAD-SFC	NoSubs
7	1	5	5	21	-3.9	0.087	-9.000	-9.000	-999.	62.	15.4	0.0220	0.72	1.00	1.50	222.0	15.0	279.8	2.0	0	0.00	49.	1019.	2	NAD-SFC	NoSubs
7	1	5	5	22	-11.2	0.144	-9.000	-9.000	-999.	131.	24.2	0.0220	0.72	1.00	2.60	220.0	15.0	279.0	2.0	0	0.00	50.	1019.	2	NAD-SFC	NoSubs
7	1	5	5	23	-22.1	0.205	-9.000	-9.000	-999.	222.	35.2	0.0220	0.72	1.00	3.60	218.0	15.0	278.4	2.0	0	0.00	51.	1019.	2	NAD-SFC	NoSubs
7	1	5	5	24	-22.1	0.205	-9.000	-9.000	-999.	222.	35.2	0.0220	0.72	1.00	3.60	232.0	15.0	277.9	2.0	0	0.00	53.	1019.	2	NAD-SFC	NoSubs
7	1	6	6	1	-22.2	0.205	-9.000	-9.000	-999.	222.	35.2	0.0220	0.72	1.00	3.60	236.0	15.0	277.4	2.0	0	0.00	54.	1020.	2	NAD-SFC	NoSubs
7	1	6	6	2	-21.7	0.202	-9.000	-9.000	-999.	217.	34.3	0.0200	0.72	1.00	3.60	243.0	15.0	276.8	2.0	0	0.00	55.	1020.	2	NAD-SFC	NoSubs
7	1	6	6	3	-26.3	0.231	-9.000	-9.000	-999.	267.	42.8	0.0200	0.72	1.00	4.10	255.0	15.0	276.4	2.0	0	0.00	56.	1020.	2	NAD-SFC	NoSubs
7	1	6	6	4	-26.4	0.231	-9.000	-9.000	-999.	267.	42.7	0.0200	0.72	1.00	4.10	263.0	15.0	276.1	2.0	0	0.00	56.	1020.	2	NAD-SFC	NoSubs
7	1	6	6	5	-26.1	0.228	-9.000	-9.000	-999.	262.	41.5	0.0420	0.72	1.00	3.60	272.0	15.0	275.8	2.0	0	0.00	57.	1021.	2	NAD-SFC	NoSubs
7	1	6	6	6	-15.9	0.171	-9.000	-9.000	-999.	171.	28.8	0.0200	0.72	1.00	3.10	266.0	15.0	275.4	2.0	0	0.00	58.	1021.	2	NAD-SFC	NoSubs
7	1	6	6	7	-11.1	0.142	-9.000	-9.000	-999.	128.	23.4	0.0200	0.72	1.00	2.60	268.0	15.0	275.1	2.0	0	0.00	59.	1021.	2	NAD-SFC	NoSubs
7	1	6	6	8	-8.2	0.128	-9.000	-9.000	-999.	110.	23.4	0.0420	0.72	0.62	2.10	282.0	15.0	274.8	2.0	0	0.00	61.	1021.	2	NAD-SFC	NoSubs
7	1	6	6	9	14.2	0.142	0.296	0.009	67.	128.	-18.3	0.0800	0.72	0.34	1.50	318.0	15.0	276.4	2.0	0	0.00	56.	1021.	2	NAD-SFC	NoSubs
7	1	6	6	10	54.9	0.126	0.719	0.010	246.	108.	-3.3	0.0950	0.72	0.25	1.00	338.0	15.0	278.1	2.0	0	0.00	50.	1021.	2	NAD-SFC	NoSubs
7	1	6	6	11	84.5	0.133	0.925	0.009	341.	117.	-2.5	0.0950	0.72	0.22	1.00	335.0	15.0	279.6	2.0	0	0.00	45.	1020.	2	NAD-SFC	NoSubs
7	1	6	6	12	100.0	0.131	1.064	0.009	439.	114.	-2.1	0.0800	0.72	0.21	1.00	316.0	15.0	280.8	2.0	0	0.00	43.	1020.	2	NAD-SFC	NoSubs
7	1	6	6	13	101.0	0.136	1.139	0.009	532.	120.	-2.3	0.0950	0.72	0.21	1.00	331.0	15.0	281.9	2.0	0	0.00	41.	1019.	2	NAD-SFC	NoSubs
7	1	6	6	14	87.3	0.174	1.131	0.010	602.	175.	-5.5	0.0950	0.72	0.22	1.50	345.0	15.0	282.8	2.0	0	0.00	40.	1018.	2	NAD-SFC	NoSubs
7	1	6	6	15	59.5	0.212	1.018	0.010	645.	234.	-14.6	0.0950	0.72	0.25	2.10	342.0	15.0	283.0	2.0	0	0.00	42.	1018.	2	NAD-SFC	NoSubs
7	1	6	6	16	19.8	0.150	0.711	0.010	658.	141.	-15.5	0.0950	0.72	0.33	1.50	352.0	15.0	283.0	2.0	0	0.00	47.	1018.	2	NAD-SFC	NoSubs
7	1	6	6	17	-0.9	0.063	-9.000	-9.000	-999.	42.	25.6	0.0400	0.72	0.57	0.50	62.0	15.0	282.5	2.0	0	0.00	50.	1018.	2	NAD-SFC	NoSubs
7	1	6	6	18	-2.2	0.075	-9.000	-9.000	-999.	49.	16.9	0.0240	0.72	1.00	1.00	155.0	15.0	281.4	2.0	0	0.00	54.	1019.	2	NAD-SFC	NoSubs
7	1	6	6	19	-7.4	0.117	-9.000	-9.000	-999.	96.	19.6	0.0240	0.72	1.00	2.10	158.0	15.0	280.4	2.0	0	0.00	59.	1019.	2	NAD-SFC	NoSubs
7	1	6	6	20	-22.5	0.208	-9.000	-9.000	-999.	227.	36.1	0.0240	0.72	1.00	3.60	171.0	15.0	279.5	2.0	0	0.00	62.	1019.	2	NAD-SFC	NoSubs
7	1	6	6	21	-16.5	0.177	-9.000	-9.000	-999.	178.	30.3	0.0240	0.72	1.00	3.10	172.0	15.0	278.9	2.0	0	0.00	64.	1020.	2	NAD-SFC	NoSubs
7	1	6	6	22	-11.5	0.146	-9.000	-9.000	-999.	134.	24.6	0.0240	0.72	1.00	2.60	156.0	15.0	278.4	2.0	0	0.00	65.	1020.	2	NAD-SFC	NoSubs
7	1	6	6	23	-11.5	0.146	-9.000	-9.000	-999.	134.	24.6	0.0240	0.72	1.00	2.60	152.0	15.0	277.8	2.0	0	0.00	66.	1020.	2	NAD-SFC	NoSubs
7	1	6	6	24	-11.9	0.150	-9.000	-9.000	-999.	139.	25.6	0.0280	0.72	1.00	2.60	136.0	15.0	277.4	2.0	0	0.00	67.	1020.	2	NAD-SFC	NoSubs
7	1	7	7	1	-2.3	0.075	-9.000	-9.000	-999.	51.	17.0	0.0240	0.72	1.00	1.00	158.0	15.0	277.1	2.0	0	0.00	69.	1020.	2	NAD-SFC	NoSubs
7	1	7	7	2	-1.1	0.070	-9.000	-9.000	-999.	44.	27.8	0.0420	0.72	1.00	0.50	273.0	15.0	276.8	2.0	0	0.00	74.	1020.	2	NAD-SFC	NoSubs
7	1	7	7	3	-1.3	0.074	-9.000	-9.000	-999.	49.	29.5	0.0800	0.72	1.00	0.50	300.0	15.0	276.4	2.0	0	0.00	81.	1020.	2	NAD-SFC	NoSubs
7	1	7	7	4	-1.0	0.066	-9.000	-9.000	-999.	41.	26.5	0.0240	0.72	1.00	0.50	155.0	15.0	276.0	2.0	0	0.00	87.	1020.	2	NAD-SFC	NoSubs
7	1	7	7	5	-2.3	0.075	-9.000	-9.000	-999.	50.	17.0	0.0240	0.72	1.00	1.00	163.0	15.0	275.8	2.0	0	0.00	92.	1021.	2	NAD-SFC	NoSubs
7	1	7	7	6	-4.0	0.088	-9.000	-9.000	-999.	62.	15.4	0.0220	0.72	1.00	1.50	196.0	15.0	275.8	2.0	0	0.00	96.	1021.	2	NAD-SFC	NoSubs
7	1	7	7	7	-7.3	0.115	-9.000	-9.000	-999.	94.	19.0	0.0220	0.72	1.00	2.10	239.0	15.0	275.8	2.0	0	0.00	98.	1021.	2	NAD-SFC	NoSubs
7	1	7	7	8	-15.3	0.172	-9.000	-9.000	-999.	171.	30.5	0.0200	0.72	0.62	3.10	254.0	15.0	275.8	2.0	0	0.00	98.	1022.	2	NAD-SFC	NoSubs
7	1	7	7	9	14.4	0.197	0.278	0.014	54.	210.	-48.5	0.0420	0.72	0.34	2.60	280.0	15.0	277.2	2.0	0	0.00	90.	1022.	2	NAD-SFC	NoSubs

7	1	7	7	10	55.4	0.248	0.622	0.013	158.	296.	-24.9	0.0420	0.72	0.25	3.10	284.0	15.0	280.0	2.0	0	0.00	72.	1022.	2	NAD-SFC NoSubs
7	1	7	7	11	85.3	0.255	0.867	0.013	278.	310.	-17.8	0.0420	0.72	0.22	3.10	293.0	15.0	282.2	2.0	0	0.00	59.	1022.	2	NAD-SFC NoSubs
7	1	7	7	12	101.2	0.227	1.018	0.013	380.	259.	-10.5	0.0420	0.72	0.21	2.60	292.0	15.0	283.9	2.0	0	0.00	51.	1021.	2	NAD-SFC NoSubs
7	1	7	7	13	102.3	0.253	1.081	0.013	449.	304.	-14.3	0.0800	0.72	0.21	2.60	301.0	15.0	284.9	2.0	0	0.00	48.	1020.	2	NAD-SFC NoSubs
7	1	7	7	14	88.7	0.214	1.069	0.013	501.	238.	-10.0	0.0800	0.72	0.22	2.10	316.0	15.0	285.8	2.0	0	0.00	45.	1020.	2	NAD-SFC NoSubs
7	1	7	7	15	60.9	0.213	0.964	0.012	534.	235.	-14.3	0.0950	0.72	0.24	2.10	337.0	15.0	286.1	2.0	0	0.00	45.	1019.	2	NAD-SFC NoSubs
7	1	7	7	16	21.2	0.232	0.682	0.012	544.	268.	-53.3	0.0960	0.72	0.33	2.60	25.0	15.0	285.6	2.0	0	0.00	50.	1019.	2	NAD-SFC NoSubs
7	1	7	7	17	-18.8	0.213	-9.000	-9.000	-999.	236.	46.6	0.0650	0.72	0.56	3.10	54.0	15.0	284.8	2.0	0	0.00	54.	1018.	2	NAD-SFC NoSubs
7	1	7	7	18	-8.3	0.127	-9.000	-9.000	-999.	111.	22.3	0.0400	0.72	1.00	2.10	74.0	15.0	283.8	2.0	0	0.00	58.	1018.	2	NAD-SFC NoSubs
7	1	7	7	19	-1.0	0.065	-9.000	-9.000	-999.	41.	25.8	0.0200	0.72	1.00	0.50	251.0	15.0	282.8	2.0	0	0.00	63.	1018.	2	NAD-SFC NoSubs
7	1	7	7	20	-19.0	0.195	-9.000	-9.000	-999.	206.	35.2	0.0420	0.72	1.00	3.10	282.0	15.0	282.1	2.0	0	0.00	66.	1018.	2	NAD-SFC NoSubs
7	1	7	7	21	-28.8	0.258	-9.000	-9.000	-999.	315.	54.3	0.0800	0.72	1.00	3.60	318.0	15.0	281.8	2.0	0	0.00	67.	1018.	2	NAD-SFC NoSubs
7	1	7	7	22	-24.4	0.229	-9.000	-9.000	-999.	263.	44.6	0.0960	0.72	1.00	3.10	12.0	15.0	281.1	2.0	0	0.00	69.	1018.	2	NAD-SFC NoSubs
7	1	7	7	23	-8.4	0.127	-9.000	-9.000	-999.	113.	22.1	0.0400	0.72	1.00	2.10	61.0	15.0	280.2	2.0	0	0.00	74.	1018.	2	NAD-SFC NoSubs
7	1	7	7	24	-4.5	0.094	-9.000	-9.000	-999.	70.	17.2	0.0400	0.72	1.00	1.50	65.0	15.0	279.8	2.0	0	0.00	75.	1018.	2	NAD-SFC NoSubs
7	1	8	8	1	-1.0	0.065	-9.000	-9.000	-999.	40.	26.0	0.0200	0.72	1.00	0.50	249.0	15.0	279.1	2.0	0	0.00	77.	1018.	2	NAD-SFC NoSubs
7	1	8	8	2	-2.2	0.074	-9.000	-9.000	-999.	48.	16.6	0.0200	0.72	1.00	1.00	251.0	15.0	278.6	2.0	0	0.00	79.	1018.	2	NAD-SFC NoSubs
7	1	8	8	3	-2.2	0.074	-9.000	-9.000	-999.	48.	16.7	0.0200	0.72	1.00	1.00	268.0	15.0	278.2	2.0	0	0.00	80.	1018.	2	NAD-SFC NoSubs
7	1	8	8	4	-2.9	0.085	-9.000	-9.000	-999.	60.	19.6	0.0800	0.72	1.00	1.00	315.0	15.0	278.0	2.0	0	0.00	80.	1018.	2	NAD-SFC NoSubs
7	1	8	8	5	-2.9	0.086	-9.000	-9.000	-999.	60.	19.6	0.0800	0.72	1.00	1.00	307.0	15.0	277.8	2.0	0	0.00	81.	1019.	2	NAD-SFC NoSubs
7	1	8	8	6	-2.5	0.080	-9.000	-9.000	-999.	54.	18.1	0.0420	0.72	1.00	1.00	295.0	15.0	277.5	2.0	0	0.00	81.	1018.	2	NAD-SFC NoSubs
7	1	8	8	7	-2.5	0.080	-9.000	-9.000	-999.	54.	18.1	0.0420	0.72	1.00	1.00	295.0	15.0	277.4	2.0	0	0.00	82.	1018.	2	NAD-SFC NoSubs
7	1	8	8	8	-2.8	0.085	-9.000	-9.000	-999.	59.	19.7	0.0950	0.72	0.61	1.00	331.0	15.0	277.2	2.0	0	0.00	83.	1018.	2	NAD-SFC NoSubs
7	1	8	8	9	14.8	0.147	0.274	0.013	50.	135.	-19.4	0.0950	0.72	0.34	1.50	330.0	15.0	279.0	2.0	0	0.00	74.	1018.	2	NAD-SFC NoSubs
7	1	8	8	10	56.0	0.205	0.600	0.012	140.	222.	-13.9	0.0800	0.72	0.25	2.10	320.0	15.0	281.8	2.0	0	0.00	63.	1017.	2	NAD-SFC NoSubs
7	1	8	8	11	86.0	0.169	0.841	0.012	251.	166.	-5.1	0.0800	0.72	0.22	1.50	329.0	15.0	283.8	2.0	0	0.00	58.	1017.	2	NAD-SFC NoSubs
7	1	8	8	12	101.9	0.177	1.005	0.012	361.	179.	-5.0	0.0950	0.72	0.21	1.50	347.0	15.0	285.2	2.0	0	0.00	55.	1016.	2	NAD-SFC NoSubs
7	1	8	8	13	103.3	0.178	1.084	0.012	446.	180.	-4.9	0.0950	0.72	0.21	1.50	349.0	15.0	286.8	2.0	0	0.00	52.	1015.	2	NAD-SFC NoSubs
7	1	8	8	14	90.0	0.175	1.083	0.012	510.	176.	-5.4	0.0950	0.72	0.21	1.50	354.0	15.0	287.9	2.0	0	0.00	48.	1014.	2	NAD-SFC NoSubs
7	1	8	8	15	62.3	0.168	0.983	0.012	550.	165.	-6.9	0.0950	0.72	0.24	1.50	352.0	15.0	288.4	2.0	0	0.00	47.	1013.	2	NAD-SFC NoSubs
7	1	8	8	16	22.6	0.196	0.707	0.012	563.	209.	-30.1	0.0950	0.72	0.32	2.10	349.0	15.0	288.1	2.0	0	0.00	51.	1013.	2	NAD-SFC NoSubs
7	1	8	8	17	-14.8	0.191	-9.000	-9.000	-999.	200.	42.4	0.0950	0.72	0.56	2.60	348.0	15.0	287.0	2.0	0	0.00	55.	1013.	2	NAD-SFC NoSubs
7	1	8	8	18	-5.5	0.108	-9.000	-9.000	-999.	88.	20.8	0.0950	0.72	1.00	1.50	360.0	15.0	285.8	2.0	0	0.00	60.	1013.	2	NAD-SFC NoSubs
7	1	8	8	19	-1.3	0.075	-9.000	-9.000	-999.	49.	29.7	0.0960	0.72	1.00	0.50	13.0	15.0	284.4	2.0	0	0.00	66.	1013.	2	NAD-SFC NoSubs
7	1	8	8	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	283.2	2.0	0	0.00	72.	1013.	2	NAD-SFC NoSubs
7	1	8	8	21	-1.2	0.072	-9.000	-9.000	-999.	46.	28.7	0.0650	0.72	1.00	0.50	43.0	15.0	282.5	2.0	0	0.00	76.	1013.	2	NAD-SFC NoSubs
7	1	8	8	22	-3.0	0.087	-9.000	-9.000	-999.	62.	20.0	0.0960	0.72	1.00	1.00	28.0	15.0	281.8	2.0	0	0.00	79.	1013.	2	NAD-SFC NoSubs
7	1	8	8	23	-3.0	0.087	-9.000	-9.000	-999.	62.	20.0	0.0960	0.72	1.00	1.00	20.0	15.0	281.2	2.0	0	0.00	80.	1013.	2	NAD-SFC NoSubs
7	1	8	8	24	-3.0	0.087	-9.000	-9.000	-999.	62.	20.0	0.0960	0.72	1.00	1.00	14.0	15.0	280.9	2.0	0	0.00	81.	1012.	2	NAD-SFC NoSubs
7	1	9	9	1	-3.0	0.087	-9.000	-9.000	-999.	62.	20.0	0.0950	0.72	1.00	1.00	355.0	15.0	280.5	2.0	0	0.00	81.	1012.	2	NAD-SFC NoSubs
7	1	9	9	2	-5.6	0.108	-9.000	-9.000	-999.	86.	20.7	0.0950	0.72	1.00	1.50	336.0	15.0	280.2	2.0	0	0.00	82.	1012.	2	NAD-SFC NoSubs
7	1	9	9	3	-5.6	0.108	-9.000	-9.000	-999.	86.	20.7	0.0950	0.72	1.00	1.50	346.0	15.0	279.8	2.0	0	0.00	83.	1012.	2	NAD-SFC NoSubs
7	1	9	9	4	-5.6	0.109	-9.000	-9.000	-999.	86.	20.7	0.0960	0.72	1.00	1.50	4.0	15.0	279.2	2.0	0	0.00	84.	1011.	2	NAD-SFC NoSubs
7	1	9	9	5	-3.0	0.087	-9.000	-9.000	-999.	62.	20.0	0.0950	0.72	1.00	1.00	356.0	15.0	278.9	2.0	0	0.00	86.	1011.	2	NAD-SFC NoSubs
7	1	9	9	6	-1.3	0.075	-9.000	-9.000	-999.	50.	29.9	0.0950	0.72	1.00	0.50	339.0	15.0	278.8	2.0	0	0.00	85.	1011.	2	NAD-SFC NoSubs
7	1	9	9	7	-1.3	0.075	-9.000	-9.000	-999.	50.	29.9	0.0950	0.72	1.00	0.50	353.0	15.0	278.6	2.0	0	0.00	84.	1011.	2	NAD-SFC NoSubs
7	1	9	9	8	-1.1	0.069	-9.000	-9.000	-999.	44.	27.8	0.0650	0.72	0.61	0.50	34.0	15.0	278.5	2.0	0	0.00	83.	1011.	2	NAD-SFC NoSubs
7	1	9	9	9	15.1	-9.000	-9.000	-9.000	46.	-999.	-99999.0	0.0471	0.72	0.34	0.00	0.0	15.0	279.8	2.0	0	0.00	78.	1011.	2	NAD-SFC NoSubs
7	1	9	9	10	56.6	0.161	0.562	0.017	113.	155.	-6.7	0.0800	0.72	0.25	1.50	304.0	15.0	283.2	2.0	0	0.00	59.	1011.	2	NAD-SFC NoSubs
7	1	9	9	11	86.7	0.169	0.772	0.015	191.	167.	-5.0	0.0800	0.72	0.22	1.50	301.0	15.0	285.2	2.0	0	0.00	56.	1011.	2	NAD-SFC NoSubs
7	1	9	9	12	103.0	0.132	0.919	0.013	272.	115.	-2.0	0.0800	0.72	0.21	1.00	327.0	15.0	287.1	2.0	0	0.00	51.	1010.	2	NAD-SFC NoSubs
7	1	9	9	13	104.4	0.137	0.993	0.011	338.	121.	-2.2	0.0950	0.72	0.21	1.00	344.0	15.0	288.4	2.0	0	0.00	49.	1009.	2	NAD-SFC NoSubs
7	1	9	9	14	91.1	0.175	0.993	0.010	386.	176.	-5.3	0.0950	0.72	0.21	1.50	345.0	15.0	289.2	2.0	0	0.00	48.	1008.	2	NAD-SFC NoSubs
7	1	9	9	15	63.5	0.168	0.919	0.009	439.	166.	-6.8	0.0950	0.72	0.24	1.50	350.0	15.0	289.8	2.0	0	0.00	47.	1007.	2	NAD-SFC NoSubs
7	1	9	9	16	23.9	0.115	0.673	0.009	458.	94.	-5.8	0.0950	0.72	0.32	1.00	353.0	15.0	289.5	2.0	0	0.00	51.	1006.	2	NAD-SFC NoSubs
7	1	9	9	17	-1.0	0.066	-9.000	-9.000	-999.	41.	26.8	0.0950	0.72	0.55	0.50	331.0	15.0	288.5	2.0	0	0.00	55.	1006.	2	NAD-SFC NoSubs
7	1	9	9	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	287.0	2.0	0	0.00	61.	1006.	2	NAD-SFC NoSubs
7	1	9	9	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	285.6	2.0	0	0.00	67.	1006.	2	NAD-SFC NoSubs
7	1	9	9	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	284.2	2.0	0	0.00	73.	1006.	2	NAD-SFC NoSubs
7	1	9	9	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	283.2	2.0	0	0.00	78.	1006.	2	NAD-SFC NoSubs
7	1	9	9	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	282.5	2.0	0	0.00	81.	1006.	2	NAD-SFC NoSubs
7	1	9	9	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	281.9	2.0	0	0.00	83.	1006.	2	NAD-SFC NoSubs
7	1	9	9	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	281.2	2.0	0	0.00	85.	1006.	2	NAD-SFC NoSubs
7	1	10	10	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	280.8	2.0	0	0.00	87.	1006.	2	NAD-SFC NoSubs
7	1	10	10	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	280.2	2.0	0	0.00	87.	1005.	2	NAD-SFC NoSubs
7	1	10	10	3	-1.1	0.069	-9.000	-9.000	-999.	44.	27.7	0.0420	0.72	1.00	0.50	280.0	15.0	279.9	2.0	0	0.00	87.	1005.	2	NAD-SFC NoSubs
7	1	10	10	4	-1.1	0.069	-9.000	-9.000	-999.	44.	27.7	0.0420	0.72	1.00	0.50	295.0	15.0	279.8	2.0	0	0.00	86.	1004.	2	NAD-SFC NoSubs
7	1	10	10	5	-1.2	0.074	-9.000	-9.000	-999.	48.	29.4	0.0800	0.72	1.00	0.50	308.0	15.0	279.2	2.0	0	0.00	85.	1004.	2	NAD-SFC NoSubs
7	1	10	10	6	-1.3	0.075	-9.000	-9.000	-999.	50.	29.9	0.0950	0.72	1.00	0.50	335.0	15.0	278.8	2.0	0	0.00	87.	1004.	2	NAD-SFC NoSubs
7	1	10	10	7	-1.3	0.075	-9.000	-9.000	-999.	50.	29.9	0.0950	0.72	1.00	0.50	344.0	15.0	277.8	2.0	0	0.00	89.	1004.	2	NAD-SFC NoSubs
7	1	10	10	8	6.9	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	0.61	0.00	0.0	15.0	277.0	2.0	0	0.00	91.	1004.	2	NAD-SFC NoSubs
7	1	10	10	9	15.1	0.070	0.291	0.018	59.	44.	-2.0	0.0950	0.72	0.34	0.50	336.0	15.0	278.4	2.0	0	0.00	82.	1004.	2	NAD-SFC NoSubs
7	1	10	10	10	56.6	0.127	0.603	0.014	139.	109.	-3.2	0.0950	0.72	0.25	1.00	332.0	15.0	281.8	2.0	0	0.00	64.	1004.	2	NAD-SFC NoSubs
7	1	10	10	11	86.9	0.085	0.834	0.012	239.	59.	-1.0	0.0800	0.72	0.22	0.50	321.0	15.0	284.0	2.0	0	0.00	57.	1004.	2	NAD-SFC NoSubs
7	1	10	10	12	103.1	0.090	0.979	0.010	325.	64.	-1.0	0.0950	0.72	0.21	0.50	333.0	15.0	285.8	2.0	0	0.00	51.	1003.	2	NAD-SFC NoSubs
7	1	10	10	13	104.7	0.132	1.051	0.009	397.	116.	-2.0	0.0800	0.72	0.20	1.00	325.0	15.0	287.2	2.0	0	0.00	46.	1003.	2	NAD-SFC NoSubs
7	1	10	10	14	91.4	0.170	1.072	0.009	482.	168.	-4.8	0.0800	0.72	0.21	1.50	306.0	15.0	287.9	2.0	0	0.00	44.	1002.	2	NAD-SFC NoSubs

7	1	10	10	15	63.7	0.207	0.983	0.008	532.	227.	-12.5	0.0800	0.72	0.24	2.10	316.0	15.0	287.9	2.0	0	0.00	46.	1002.	2	NAD-SFC	NoSubs
7	1	10	10	16	24.2	0.262	0.720	0.008	551.	321.	-66.0	0.0800	0.72	0.32	3.10	328.0	15.0	288.2	2.0	0	0.00	62.	1002.	2	NAD-SFC	NoSubs
7	1	10	10	17	-24.9	0.309	-9.000	-9.000	-999.	412.	105.7	0.0950	0.72	0.55	4.10	338.0	15.0	286.8	2.0	0	0.00	70.	1002.	2	NAD-SFC	NoSubs
7	1	10	10	18	-33.3	0.307	-9.000	-9.000	-999.	408.	77.6	0.0950	0.72	1.00	4.10	337.0	15.0	285.1	2.0	0	0.00	79.	1002.	2	NAD-SFC	NoSubs
7	1	10	10	19	-33.5	0.307	-9.000	-9.000	-999.	408.	77.2	0.0950	0.72	1.00	4.10	343.0	15.0	283.6	2.0	0	0.00	86.	1003.	2	NAD-SFC	NoSubs
7	1	10	10	20	-28.3	0.258	-9.000	-9.000	-999.	316.	54.4	0.0800	0.72	1.00	3.60	329.0	15.0	282.4	2.0	0	0.00	91.	1003.	2	NAD-SFC	NoSubs
7	1	10	10	21	-22.4	0.220	-9.000	-9.000	-999.	249.	42.8	0.0800	0.72	1.00	3.10	325.0	15.0	281.8	2.0	0	0.00	94.	1003.	3	NAD-SFC	NoSubs
7	1	10	10	22	-15.5	0.182	-9.000	-9.000	-999.	187.	34.9	0.0800	0.72	1.00	2.60	312.0	15.0	281.2	2.0	0	0.00	96.	1004.	3	NAD-SFC	NoSubs
7	1	10	10	23	-12.9	0.161	-9.000	-9.000	-999.	155.	29.0	0.0420	0.72	1.00	2.60	298.0	15.0	280.9	2.0	0	0.00	97.	1004.	3	NAD-SFC	NoSubs
7	1	10	10	24	-12.9	0.161	-9.000	-9.000	-999.	155.	29.0	0.0420	0.72	1.00	2.60	291.0	15.0	280.4	2.0	0	0.00	99.	1004.	3	NAD-SFC	NoSubs
7	1	11	11	1	-15.3	0.183	-9.000	-9.000	-999.	187.	35.6	0.0800	0.72	1.00	2.60	300.0	15.0	279.8	2.0	0	0.00	99.	1004.	4	NAD-SFC	NoSubs
7	1	11	11	2	-22.1	0.221	-9.000	-9.000	-999.	249.	43.5	0.0800	0.72	1.00	3.10	324.0	15.0	278.6	2.0	0	0.00	99.	1005.	4	NAD-SFC	NoSubs
7	1	11	11	3	-15.9	0.190	-9.000	-9.000	-999.	198.	38.5	0.0950	0.72	1.00	2.60	333.0	15.0	278.2	2.0	0	0.00	95.	1005.	5	NAD-SFC	NoSubs
7	1	11	11	4	-9.5	0.151	-9.000	-9.000	-999.	142.	32.7	0.0950	0.72	1.00	2.10	334.0	15.0	278.1	2.0	0	0.00	92.	1006.	7	NAD-SFC	NoSubs
7	1	11	11	5	-11.0	0.193	-9.000	-9.000	-999.	204.	58.9	0.0950	0.72	1.00	2.60	333.0	15.0	278.0	2.0	0	0.00	88.	1006.	10	NAD-SFC	NoSubs
7	1	11	11	6	-19.8	0.230	-9.000	-9.000	-999.	265.	55.3	0.0950	0.72	1.00	3.10	334.0	15.0	278.1	2.0	0	0.00	85.	1006.	7	NAD-SFC	NoSubs
7	1	11	11	7	-15.5	0.190	-9.000	-9.000	-999.	199.	39.9	0.0950	0.72	1.00	2.60	332.0	15.0	277.9	2.0	0	0.00	84.	1007.	6	NAD-SFC	NoSubs
7	1	11	11	8	-9.1	0.146	-9.000	-9.000	-999.	134.	30.7	0.0800	0.72	0.61	2.10	311.0	15.0	277.6	2.0	0	0.00	84.	1007.	5	NAD-SFC	NoSubs
7	1	11	11	9	18.4	0.303	0.418	0.005	142.	400.	-135.4	0.0950	0.72	0.34	3.60	332.0	15.0	278.1	2.0	0	0.00	74.	1007.	5	NAD-SFC	NoSubs
7	1	11	11	10	56.8	0.285	0.778	0.005	297.	365.	-36.4	0.0950	0.72	0.25	3.10	335.0	15.0	278.9	2.0	0	0.00	68.	1007.	5	NAD-SFC	NoSubs
7	1	11	11	11	87.1	0.249	1.022	0.005	440.	299.	-16.0	0.0800	0.72	0.22	2.60	327.0	15.0	279.8	2.0	0	0.00	64.	1007.	4	NAD-SFC	NoSubs
7	1	11	11	12	102.6	0.261	1.191	0.006	591.	319.	-15.5	0.0950	0.72	0.21	2.60	330.0	15.0	280.2	2.0	0	0.00	61.	1006.	4	NAD-SFC	NoSubs
7	1	11	11	13	104.0	0.298	1.273	0.006	712.	390.	-22.8	0.0950	0.72	0.20	3.10	335.0	15.0	280.9	2.0	0	0.00	58.	1006.	4	NAD-SFC	NoSubs
7	1	11	11	14	91.0	0.331	1.267	0.007	803.	457.	-35.8	0.0950	0.72	0.21	3.60	334.0	15.0	281.2	2.0	0	0.00	56.	1006.	4	NAD-SFC	NoSubs
7	1	11	11	15	64.1	0.349	1.155	0.007	862.	494.	-59.2	0.0800	0.72	0.24	4.10	327.0	15.0	281.1	2.0	0	0.00	57.	1005.	3	NAD-SFC	NoSubs
7	1	11	11	16	25.8	0.307	0.860	0.008	883.	410.	-100.9	0.0950	0.72	0.32	3.60	341.0	15.0	280.8	2.0	0	0.00	65.	1005.	4	NAD-SFC	NoSubs
7	1	11	11	17	-22.7	0.309	-9.000	-9.000	-999.	413.	117.0	0.0950	0.72	0.54	4.10	343.0	15.0	279.5	2.0	0	0.00	72.	1005.	4	NAD-SFC	NoSubs
7	1	11	11	18	-28.1	0.268	-9.000	-9.000	-999.	334.	61.5	0.0950	0.72	1.00	3.60	336.0	15.0	278.2	2.0	0	0.00	77.	1006.	4	NAD-SFC	NoSubs
7	1	11	11	19	-22.6	0.220	-9.000	-9.000	-999.	249.	42.5	0.0800	0.72	1.00	3.10	329.0	15.0	277.8	2.0	0	0.00	78.	1006.	3	NAD-SFC	NoSubs
7	1	11	11	20	-15.7	0.182	-9.000	-9.000	-999.	187.	34.6	0.0800	0.72	1.00	2.60	314.0	15.0	277.2	2.0	0	0.00	78.	1007.	3	NAD-SFC	NoSubs
7	1	11	11	21	-13.0	0.161	-9.000	-9.000	-999.	155.	28.8	0.0420	0.72	1.00	2.60	286.0	15.0	276.6	2.0	0	0.00	78.	1007.	3	NAD-SFC	NoSubs
7	1	11	11	22	-6.9	0.113	-9.000	-9.000	-999.	92.	18.9	0.0200	0.72	1.00	2.10	266.0	15.0	276.1	2.0	0	0.00	78.	1007.	3	NAD-SFC	NoSubs
7	1	11	11	23	-8.2	0.128	-9.000	-9.000	-999.	110.	23.0	0.0420	0.72	1.00	2.10	271.0	15.0	275.6	2.0	0	0.00	79.	1007.	4	NAD-SFC	NoSubs
7	1	11	11	24	-3.8	0.092	-9.000	-9.000	-999.	68.	18.5	0.0420	0.72	1.00	1.50	289.0	15.0	275.1	2.0	0	0.00	81.	1007.	7	NAD-SFC	NoSubs
7	1	12	12	1	-2.3	0.079	-9.000	-9.000	-999.	53.	18.9	0.0800	0.72	1.00	1.00	308.0	15.0	274.8	2.0	0	0.00	82.	1007.	7	NAD-SFC	NoSubs
7	1	12	12	2	-4.8	0.104	-9.000	-9.000	-999.	80.	20.9	0.0800	0.72	1.00	1.50	309.0	15.0	274.6	2.0	0	0.00	82.	1008.	6	NAD-SFC	NoSubs
7	1	12	12	3	-14.7	0.183	-9.000	-9.000	-999.	188.	37.6	0.0800	0.72	1.00	2.60	314.0	15.0	274.8	2.0	0	0.00	82.	1008.	6	NAD-SFC	NoSubs
7	1	12	12	4	-26.2	0.259	-9.000	-9.000	-999.	316.	59.6	0.0800	0.72	1.00	3.60	316.0	15.0	274.8	2.0	0	0.00	82.	1008.	5	NAD-SFC	NoSubs
7	1	12	12	5	-30.0	0.297	-9.000	-9.000	-999.	388.	78.2	0.0800	0.72	1.00	4.10	317.0	15.0	274.5	2.0	0	0.00	81.	1008.	5	NAD-SFC	NoSubs
7	1	12	12	6	-31.6	0.296	-9.000	-9.000	-999.	387.	74.0	0.0800	0.72	1.00	4.10	328.0	15.0	273.9	2.0	0	0.00	81.	1009.	4	NAD-SFC	NoSubs
7	1	12	12	7	-28.7	0.258	-9.000	-9.000	-999.	315.	53.9	0.0800	0.72	1.00	3.60	318.0	15.0	272.8	2.0	0	0.00	83.	1010.	3	NAD-SFC	NoSubs
7	1	12	12	8	-29.6	0.297	-9.000	-9.000	-999.	388.	79.6	0.0800	0.72	0.61	4.10	322.0	15.0	272.4	2.0	0	0.00	77.	1011.	3	NAD-SFC	NoSubs
7	1	12	12	9	15.1	0.497	0.421	0.005	178.	841.	-736.0	0.0950	0.72	0.34	6.20	343.0	15.0	274.2	2.0	0	0.00	52.	1011.	2	NAD-SFC	NoSubs
7	1	12	12	10	56.4	0.512	0.773	0.005	295.	878.	-213.9	0.0950	0.72	0.25	6.20	341.0	15.0	275.5	2.0	0	0.00	40.	1011.	2	NAD-SFC	NoSubs
7	1	12	12	11	86.5	0.468	1.045	0.005	476.	771.	-106.8	0.0800	0.72	0.22	5.70	328.0	15.0	276.5	2.0	0	0.00	35.	1011.	2	NAD-SFC	NoSubs
7	1	12	12	12	102.6	0.429	1.332	0.005	831.	676.	-69.4	0.0800	0.72	0.20	5.10	329.0	15.0	277.2	2.0	0	0.00	33.	1011.	2	NAD-SFC	NoSubs
7	1	12	12	13	104.9	0.394	1.437	0.005	1022.	596.	-52.7	0.0800	0.72	0.20	4.60	328.0	15.0	278.1	2.0	0	0.00	31.	1011.	3	NAD-SFC	NoSubs
7	1	12	12	14	91.8	0.391	1.422	0.005	1131.	588.	-58.9	0.0800	0.72	0.21	4.60	318.0	15.0	278.8	2.0	0	0.00	30.	1011.	3	NAD-SFC	NoSubs
7	1	12	12	15	64.6	0.420	1.291	0.005	1202.	652.	-103.0	0.0800	0.72	0.24	5.10	321.0	15.0	279.0	2.0	0	0.00	30.	1010.	3	NAD-SFC	NoSubs
7	1	12	12	16	23.8	0.261	0.932	0.005	1227.	339.	-67.6	0.0800	0.72	0.31	3.10	309.0	15.0	278.9	2.0	0	0.00	39.	1010.	2	NAD-SFC	NoSubs
7	1	12	12	17	-18.9	0.230	-9.000	-9.000	-999.	266.	58.1	0.0420	0.72	0.54	3.60	286.0	15.0	278.1	2.0	0	0.00	43.	1010.	2	NAD-SFC	NoSubs
7	1	12	12	18	-25.7	0.228	-9.000	-9.000	-999.	262.	41.7	0.0420	0.72	1.00	3.60	279.0	15.0	276.8	2.0	0	0.00	46.	1011.	2	NAD-SFC	NoSubs
7	1	12	12	19	-19.1	0.194	-9.000	-9.000	-999.	206.	34.7	0.0420	0.72	1.00	3.10	282.0	15.0	275.6	2.0	0	0.00	49.	1012.	2	NAD-SFC	NoSubs
7	1	12	12	20	-19.1	0.194	-9.000	-9.000	-999.	206.	34.7	0.0420	0.72	1.00	3.10	275.0	15.0	274.6	2.0	0	0.00	52.	1012.	2	NAD-SFC	NoSubs
7	1	12	12	21	-21.6	0.201	-9.000	-9.000	-999.	217.	34.1	0.0200	0.72	1.00	3.60	256.0	15.0	273.6	2.0	0	0.00	54.	1012.	2	NAD-SFC	NoSubs
7	1	12	12	22	-7.1	0.113	-9.000	-9.000	-999.	95.	18.5	0.0200	0.72	1.00	2.10	257.0	15.0	272.8	2.0	0	0.00	57.	1013.	2	NAD-SFC	NoSubs
7	1	12	12	23	-1.1	0.070	-9.000	-9.000	-999.	45.	28.0	0.0420	0.72	1.00	0.50	275.0	15.0	272.0	2.0	0	0.00	61.	1013.	2	NAD-SFC	NoSubs
7	1	12	12	24	-1.2	0.073	-9.000	-9.000	-999.	48.	29.1	0.0650	0.72	1.00	0.50	30.0	15.0	271.2	2.0	0	0.00	65.	1014.	2	NAD-SFC	NoSubs
7	1	13	13	1	-1.3	0.075	-9.000	-9.000	-999.	49.	29.7	0.0800	0.72	1.00	0.50	309.0	15.0	270.8	2.0	0	0.00	67.	1014.	2	NAD-SFC	NoSubs
7	1	13	13	2	-4.6	0.096	-9.000	-9.000	-999.	71.	17.2	0.0420	0.72	1.00	1.50	288.0	15.0	270.4	2.0	0	0.00	69.	1015.	2	NAD-SFC	NoSubs
7	1	13	13	3	-8.6	0.128	-9.000	-9.000	-999.	110.	22.0	0.0420	0.72	1.00	2.10	293.0	15.0	270.0	2.0	0	0.00	69.	1015.	2	NAD-SFC	NoSubs
7	1	13	13	4	-19.4	0.194	-9.000	-9.000	-999.	205.	34.3	0.0420	0.72	1.00	3.10	289.0	15.0	269.8	2.0	0	0.00	67.	1016.	2	NAD-SFC	NoSubs
7	1	13	13	5	-26.4	0.228	-9.000	-9.000	-999.	261.	40.7	0.0420	0.72	1.00	3.60	294.0	15.0	269.2	2.0	0	0.00	65.	1017.	2	NAD-SFC	NoSubs
7	1	13	13	6	-19.4	0.194	-9.000	-9.000	-999.	206.	34.2	0.0420	0.72	1.00	3.10	290.0	15.0	268.8	2.0	0	0.00	64.	1018.	2	NAD-SFC	NoSubs
7	1	13	13	7	-13.5	0.160	-9.000	-9.000	-999.	154.	27.8	0.0420	0.72	1.00	2.60	277.0	15.0	268.4	2.0	0	0.00	63.	1018.	2	NAD-SFC	NoSubs
7	1	13	13	8	-6.9	0.113	-9.000	-9.000	-999.	92.	19.3	0.0200	0.72	0.61	2.10	263.0	15.0	268.2	2.0	0	0.00	62.	1019.	2	NAD-SFC	NoSubs
7	1	13	13	9	15.1	0.185	0.304	0.008	67.	191.	-37.9	0.0800	0.72	0.34	2.10	321.0	15.0	270.2	2.0	0	0.00	50.	1019.	2	NAD-SFC	NoSubs
7	1	13	13	10	56.5	0.071	0.662	0.008	187.	55.	-1.0	0.0420	0.72	0.25	0.50	293.0	15.0	271.9	2.0	0	0.00	44.	1020.	2	NAD-SFC	NoSubs
7	1	13	13	11	86.8	0.102	0.913	0.006	319.	78.	-1.1	0.0200	0.72	0.22	1.00	262.0	15.0	273.6	2.0	0	0.00	39.	1019.	2	NAD-SFC	NoSubs
7	1	13	13	12	103.0	0.154	1.082	0.005	447.	145.	-3.2	0.0420	0.72	0.20	1.50	271.0	15.0	274.8	2.0	0	0.00	36.	1019.	2	NAD-SFC	NoSubs
7	1	13	13	13	104.5	0.195	1.181	0.005	572.	206.	-6.4	0.0420	0.72	0.20	2.10	280.0	15.0	275.8	2.0	0	0.00	34.	1018.	2	NAD-SFC	NoSubs
7	1	13	13	14	91.4	0.192	1.187	0.005	665.	202.	-7.1	0.0420	0.72	0.21	2.10	297.0	15.0	276.5	2.0	0	0.00	33.	1017.	2	NAD-SFC	NoSubs
7	1	13	13	15	64.0	0.207	1.096	0.005	748.	226.	-12.6	0.0800	0.72	0.24	2.10	321.0	15.0	276.9	2.0	0	0.00	33.	1017.	2	NAD-SFC	NoSubs
7	1	13	13	16	24.3	0.153	0.805	0.005	776.	144.	-13.4	0.0950	0.72	0.31	1.50	336.0	15.0	276.8	2.0	0	0.00	34.	1017.	2	NAD-SFC	NoSubs
7	1	13	13	17	-0.9	0.063	-9.000	-9.000	-999.	43.	25.8	0.0650	0.72	0.53	0.50	37.0	15.0	276.2	2.0	0	0.00	39.	1017.	2	NAD-SFC	NoSubs
7	1	13	13	18	-1.0	0.067	-9.000	-9.000	-999.	42.	26.9	0.0280	0.72	1.00	0.50	144.0	15.0	275.2	2.0	0	0.00	44.	1017.	2	NAD-SFC	NoSubs
7	1	13	13	19	-2.3	0.076	-9.000	-9.000	-999.	50.	17.0	0.0240	0.72	1.00	1.00	170.0	15.0	274.2	2.0	0	0.00	50.	1017.	2	NAD-SFC	NoSubs

7	1	13	13	20	-4.0	0.089	-9.000	-9.000	-999.	63.	15.6	0.0240	0.72	1.00	1.50	166.0	15.0	273.2	2.0	0	0.00	54.	1017.	2	NAD-SFC	NoSubs
7	1	13	13	21	-4.1	0.089	-9.000	-9.000	-999.	63.	15.6	0.0240	0.72	1.00	1.50	158.0	15.0	272.6	2.0	0	0.00	57.	1017.	2	NAD-SFC	NoSubs
7	1	13	13	22	-7.8	0.120	-9.000	-9.000	-999.	99.	20.0	0.0280	0.72	1.00	2.10	141.0	15.0	272.0	2.0	0	0.00	59.	1017.	2	NAD-SFC	NoSubs
7	1	13	13	23	-7.8	0.120	-9.000	-9.000	-999.	99.	19.9	0.0280	0.72	1.00	2.10	130.0	15.0	271.4	2.0	0	0.00	60.	1017.	2	NAD-SFC	NoSubs
7	1	13	13	24	-4.3	0.092	-9.000	-9.000	-999.	67.	16.3	0.0310	0.72	1.00	1.50	118.0	15.0	270.9	2.0	0	0.00	62.	1017.	2	NAD-SFC	NoSubs
7	1	14	14	1	-4.2	0.091	-9.000	-9.000	-999.	65.	16.0	0.0280	0.72	1.00	1.50	124.0	15.0	270.4	2.0	0	0.00	63.	1017.	2	NAD-SFC	NoSubs
7	1	14	14	2	-1.1	0.068	-9.000	-9.000	-999.	43.	27.1	0.0280	0.72	1.00	0.50	123.0	15.0	269.9	2.0	0	0.00	65.	1017.	2	NAD-SFC	NoSubs
7	1	14	14	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	269.4	2.0	0	0.00	67.	1018.	2	NAD-SFC	NoSubs
7	1	14	14	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	268.9	2.0	0	0.00	69.	1018.	2	NAD-SFC	NoSubs
7	1	14	14	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	268.5	2.0	0	0.00	71.	1018.	2	NAD-SFC	NoSubs
7	1	14	14	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	268.2	2.0	0	0.00	71.	1018.	2	NAD-SFC	NoSubs
7	1	14	14	7	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	268.0	2.0	0	0.00	72.	1019.	2	NAD-SFC	NoSubs
7	1	14	14	8	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	0.61	0.00	0.0	15.0	267.9	2.0	0	0.00	72.	1019.	2	NAD-SFC	NoSubs
7	1	14	14	9	15.4	-9.000	-9.000	-9.000	46.	-999.	-99999.0	0.0471	0.72	0.34	0.00	0.0	15.0	269.9	2.0	0	0.00	66.	1020.	2	NAD-SFC	NoSubs
7	1	14	14	10	57.1	-9.000	-9.000	-9.000	150.	-999.	-99999.0	0.0471	0.72	0.25	0.00	0.0	15.0	273.4	2.0	0	0.00	48.	1020.	2	NAD-SFC	NoSubs
7	1	14	14	11	87.5	-9.000	-9.000	-9.000	313.	-999.	-99999.0	0.0471	0.72	0.21	0.00	0.0	15.0	275.4	2.0	0	0.00	43.	1020.	2	NAD-SFC	NoSubs
7	1	14	14	12	103.9	-9.000	-9.000	-9.000	457.	-999.	-99999.0	0.0471	0.72	0.20	0.00	0.0	15.0	277.1	2.0	0	0.00	35.	1019.	2	NAD-SFC	NoSubs
7	1	14	14	13	105.6	-9.000	-9.000	-9.000	565.	-999.	-99999.0	0.0471	0.72	0.20	0.00	0.0	15.0	278.1	2.0	0	0.00	34.	1018.	2	NAD-SFC	NoSubs
7	1	14	14	14	92.5	0.085	1.180	0.007	644.	60.	-1.0	0.0800	0.72	0.21	0.50	321.0	15.0	278.9	2.0	0	0.00	32.	1018.	2	NAD-SFC	NoSubs
7	1	14	14	15	65.2	0.125	1.080	0.007	701.	106.	-2.7	0.0800	0.72	0.24	1.00	327.0	15.0	279.2	2.0	0	0.00	32.	1017.	2	NAD-SFC	NoSubs
7	1	14	14	16	25.5	0.198	0.798	0.007	722.	211.	-27.6	0.0950	0.72	0.31	2.10	346.0	15.0	279.0	2.0	0	0.00	36.	1017.	2	NAD-SFC	NoSubs
7	1	14	14	17	7.3	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	0.52	0.00	0.0	15.0	278.2	2.0	0	0.00	41.	1017.	2	NAD-SFC	NoSubs
7	1	14	14	18	-10.9	0.150	-9.000	-9.000	-999.	140.	28.1	0.0960	0.72	1.00	2.10	16.0	15.0	277.2	2.0	0	0.00	46.	1017.	2	NAD-SFC	NoSubs
7	1	14	14	19	-2.8	0.084	-9.000	-9.000	-999.	59.	19.1	0.0650	0.72	1.00	1.00	45.0	15.0	276.0	2.0	0	0.00	51.	1018.	2	NAD-SFC	NoSubs
7	1	14	14	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	274.9	2.0	0	0.00	56.	1018.	2	NAD-SFC	NoSubs
7	1	14	14	21	-2.3	0.075	-9.000	-9.000	-999.	49.	16.9	0.0220	0.72	1.00	1.00	236.0	15.0	273.8	2.0	0	0.00	62.	1019.	2	NAD-SFC	NoSubs
7	1	14	14	22	-2.6	0.080	-9.000	-9.000	-999.	54.	18.2	0.0420	0.72	1.00	1.00	277.0	15.0	273.1	2.0	0	0.00	65.	1019.	2	NAD-SFC	NoSubs
7	1	14	14	23	-3.1	0.088	-9.000	-9.000	-999.	63.	20.1	0.0950	0.72	1.00	1.00	357.0	15.0	272.5	2.0	0	0.00	67.	1020.	2	NAD-SFC	NoSubs
7	1	14	14	24	-3.1	0.088	-9.000	-9.000	-999.	63.	20.1	0.0960	0.72	1.00	1.00	10.0	15.0	271.8	2.0	0	0.00	70.	1020.	2	NAD-SFC	NoSubs
7	1	15	15	1	-1.3	0.076	-9.000	-9.000	-999.	51.	30.2	0.0960	0.72	1.00	0.50	20.0	15.0	271.2	2.0	0	0.00	72.	1021.	2	NAD-SFC	NoSubs
7	1	15	15	2	-1.3	0.076	-9.000	-9.000	-999.	51.	30.2	0.0960	0.72	1.00	0.50	12.0	15.0	270.9	2.0	0	0.00	73.	1021.	2	NAD-SFC	NoSubs
7	1	15	15	3	-1.2	0.073	-9.000	-9.000	-999.	48.	29.2	0.0650	0.72	1.00	0.50	38.0	15.0	270.6	2.0	0	0.00	72.	1022.	2	NAD-SFC	NoSubs
7	1	15	15	4	-1.1	0.070	-9.000	-9.000	-999.	45.	27.9	0.0400	0.72	1.00	0.50	60.0	15.0	270.4	2.0	0	0.00	71.	1022.	2	NAD-SFC	NoSubs
7	1	15	15	5	-2.6	0.080	-9.000	-9.000	-999.	54.	18.1	0.0400	0.72	1.00	1.00	75.0	15.0	270.0	2.0	0	0.00	72.	1023.	2	NAD-SFC	NoSubs
7	1	15	15	6	-4.6	0.095	-9.000	-9.000	-999.	70.	17.1	0.0400	0.72	1.00	1.50	70.0	15.0	269.6	2.0	0	0.00	74.	1023.	2	NAD-SFC	NoSubs
7	1	15	15	7	-8.6	0.127	-9.000	-9.000	-999.	108.	21.7	0.0400	0.72	1.00	2.10	69.0	15.0	269.2	2.0	0	0.00	76.	1024.	2	NAD-SFC	NoSubs
7	1	15	15	8	-8.1	0.127	-9.000	-9.000	-999.	109.	23.0	0.0400	0.72	0.60	2.10	72.0	15.0	269.1	2.0	0	0.00	76.	1024.	2	NAD-SFC	NoSubs
7	1	15	15	9	15.8	0.103	0.273	0.007	47.	79.	-6.3	0.0650	0.72	0.34	1.00	57.0	15.0	271.1	2.0	0	0.00	68.	1024.	2	NAD-SFC	NoSubs
7	1	15	15	10	57.6	0.083	0.659	0.006	181.	57.	-1.0	0.0960	0.72	0.25	0.50	7.0	15.0	274.2	2.0	0	0.00	52.	1024.	2	NAD-SFC	NoSubs
7	1	15	15	11	88.2	-9.000	-9.000	-9.000	369.	-999.	-99999.0	0.0471	0.72	0.21	0.00	0.0	15.0	276.4	2.0	0	0.00	43.	1024.	2	NAD-SFC	NoSubs
7	1	15	15	12	104.7	0.089	1.154	0.008	536.	64.	-1.0	0.0950	0.72	0.20	0.50	340.0	15.0	277.9	2.0	0	0.00	37.	1023.	2	NAD-SFC	NoSubs
7	1	15	15	13	106.5	0.137	1.246	0.009	663.	121.	-2.2	0.0950	0.72	0.20	1.00	354.0	15.0	278.9	2.0	0	0.00	36.	1022.	2	NAD-SFC	NoSubs
7	1	15	15	14	93.5	0.176	1.225	0.008	717.	177.	-5.3	0.0950	0.72	0.21	1.50	350.0	15.0	279.8	2.0	0	0.00	36.	1021.	2	NAD-SFC	NoSubs
7	1	15	15	15	66.2	0.169	1.110	0.008	752.	167.	-6.6	0.0950	0.72	0.24	1.50	353.0	15.0	280.0	2.0	0	0.00	35.	1021.	2	NAD-SFC	NoSubs
7	1	15	15	16	26.7	0.199	0.825	0.008	766.	213.	-26.8	0.0960	0.72	0.31	2.10	6.0	15.0	280.5	2.0	0	0.00	33.	1020.	2	NAD-SFC	NoSubs
7	1	15	15	17	-8.0	0.141	-9.000	-9.000	-999.	128.	31.7	0.0650	0.72	0.52	2.10	43.0	15.0	279.8	2.0	0	0.00	36.	1020.	2	NAD-SFC	NoSubs
7	1	15	15	18	-13.1	0.159	-9.000	-9.000	-999.	153.	28.1	0.0400	0.72	1.00	2.60	67.0	15.0	278.4	2.0	0	0.00	40.	1021.	2	NAD-SFC	NoSubs
7	1	15	15	19	-4.2	0.091	-9.000	-9.000	-999.	67.	16.3	0.0310	0.72	1.00	1.50	101.0	15.0	277.2	2.0	0	0.00	44.	1021.	2	NAD-SFC	NoSubs
7	1	15	15	20	-1.0	0.067	-9.000	-9.000	-999.	42.	26.8	0.0280	0.72	1.00	0.50	142.0	15.0	276.0	2.0	0	0.00	50.	1021.	2	NAD-SFC	NoSubs
7	1	15	15	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	275.0	2.0	0	0.00	55.	1021.	2	NAD-SFC	NoSubs
7	1	15	15	22	-1.2	0.073	-9.000	-9.000	-999.	47.	29.0	0.0650	0.72	1.00	0.50	33.0	15.0	274.1	2.0	0	0.00	59.	1021.	2	NAD-SFC	NoSubs
7	1	15	15	23	-3.1	0.088	-9.000	-9.000	-999.	63.	20.1	0.0960	0.72	1.00	1.00	29.0	15.0	273.4	2.0	0	0.00	62.	1021.	2	NAD-SFC	NoSubs
7	1	15	15	24	-2.8	0.084	-9.000	-9.000	-999.	58.	19.1	0.0650	0.72	1.00	1.00	30.0	15.0	272.8	2.0	0	0.00	64.	1021.	2	NAD-SFC	NoSubs
7	1	16	16	1	-3.1	0.088	-9.000	-9.000	-999.	63.	20.1	0.0960	0.72	1.00	1.00	16.0	15.0	272.2	2.0	0	0.00	65.	1021.	2	NAD-SFC	NoSubs
7	1	16	16	2	-3.1	0.088	-9.000	-9.000	-999.	63.	20.1	0.0960	0.72	1.00	1.00	19.0	15.0	271.8	2.0	0	0.00	67.	1021.	2	NAD-SFC	NoSubs
7	1	16	16	3	-1.3	0.076	-9.000	-9.000	-999.	51.	30.2	0.0960	0.72	1.00	0.50	7.0	15.0	271.4	2.0	0	0.00	67.	1021.	2	NAD-SFC	NoSubs
7	1	16	16	4	-1.3	0.076	-9.000	-9.000	-999.	51.	30.2	0.0950	0.72	1.00	0.50	339.0	15.0	271.1	2.0	0	0.00	69.	1021.	2	NAD-SFC	NoSubs
7	1	16	16	5	-1.3	0.076	-9.000	-9.000	-999.	51.	30.2	0.0950	0.72	1.00	0.50	334.0	15.0	270.8	2.0	0	0.00	69.	1021.	2	NAD-SFC	NoSubs
7	1	16	16	6	-1.3	0.076	-9.000	-9.000	-999.	51.	30.2	0.0950	0.72	1.00	0.50	342.0	15.0	270.5	2.0	0	0.00	68.	1021.	2	NAD-SFC	NoSubs
7	1	16	16	7	-1.2	0.073	-9.000	-9.000	-999.	48.	29.2	0.0650	0.72	1.00	0.50	32.0	15.0	270.4	2.0	0	0.00	67.	1020.	2	NAD-SFC	NoSubs
7	1	16	16	8	-1.1	0.070	-9.000	-9.000	-999.	44.	28.0	0.0650	0.72	0.60	0.50	38.0	15.0	270.2	2.0	0	0.00	67.	1020.	2	NAD-SFC	NoSubs
7	1	16	16	9	16.2	-9.000	-9.000	-9.000	47.	-999.	-99999.0	0.0471	0.72	0.33	0.00	0.0	15.0	272.0	2.0	0	0.00	61.	1020.	2	NAD-SFC	NoSubs
7	1	16	16	10	58.3	0.071	0.616	0.010	145.	46.	-1.0	0.0420	0.72	0.25	0.50	297.0	15.0	275.5	2.0	0	0.00	43.	1019.	2	NAD-SFC	NoSubs
7	1	16	16	11	89.0	0.075	0.926	0.011	324.	49.	-1.0	0.0420	0.72	0.21	0.50	281.0	15.0	277.6	2.0	0	0.00	38.	1019.	2	NAD-SFC	NoSubs
7	1	16	16	12	105.6	0.087	1.089	0.012	444.	61.	-1.0	0.0800	0.72	0.20	0.50	312.0	15.0	279.2	2.0	0	0.00	33.	1018.	2	NAD-SFC	NoSubs
7	1	16	16	13	107.5	0.090	1.154	0.011	519.	65.	-1.0	0.0950	0.72	0.20	0.50	332.0	15.0	280.5	2.0	0	0.00	32.	1017.	2	NAD-SFC	NoSubs
7	1	16	16	14	94.6	-9.000	-9.000	-9.000	577.	-999.	-99999.0	0.0471	0.72	0.21	0.00	0.0	15.0	281.2	2.0	0	0.00	32.	1016.	2	NAD-SFC	NoSubs
7	1	16	16	15	67.4	0.158	1.046	0.010	615.	151.	-5.3	0.0650	0.72	0.23	1.50	31.0	15.0	281.6	2.0	0	0.00	33.	1016.	2	NAD-SFC	NoSubs
7	1	16	16	16	27.7	0.187	0.785	0.010	630.	193.	-21.2	0.0650	0.72	0.30	2.10	55.0	15.0	281.2	2.0	0	0.00	38.	1015.	2	NAD-SFC	NoSubs
7	1	16	16	17	-12.2	0.178	-9.000	-9.000	-999.	180.	41.5	0.0650	0.72	0.51	2.60	46.0	15.0	280.4	2.0	0	0.00	42.	1015.	2	NAD-SFC	NoSubs
7	1	16	16	18	-9.6	0.139	-9.000	-9.000	-999.	124.	25.2	0.0650	0.72	1.00	2.10	51.0	15.0	279.2	2.0	0	0.00	45.	1015.	2	NAD-SFC	NoSubs
7	1	16	16	19	-5.6	0.109	-9.000	-9.000	-999.	86.	20.7	0.0960	0.72	1.00	1.50	29.0	15.0	278.1	2.0	0	0.00	49.	1014.	2	NAD-SFC	NoSubs
7	1	16	16	20	-3.0	0.088	-9.000	-9.000	-999.	62.	20.1	0.0960	0.72	1.00	1.00	10.0	15.0	277.1	2.0	0	0.00	54.	1014.	2	NAD-SFC	NoSubs
7	1	16	16	21	-3.0	0.087	-9.000	-9.000	-999.	62.	20.0	0.0950	0.72	1.00	1.00	336.0	15.0	276.4	2.0	0	0.00	58.	1014.	2	NAD-SFC	NoSubs
7	1	16	16	22	-1.3	0.076	-9.000	-9.000	-999.	50.	30.0	0.0960	0.72	1.00	0.50	6.0	15.0	276.1	2.0	0	0.00	60.	1013.	2	NAD-SFC	NoSubs
7	1	16	16	23	-1.3	0.076	-9.000	-9.000	-999.	50.	30.0	0.0960	0.72	1.00	0.50	19.0	15.0	276.0	2.0	0	0.00	62.	1013.	2	NAD-SFC	NoSubs
7	1	16	16	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	275.9	2.0	0	0.00	63.	1012.	2	NAD-SFC	NoSubs

7	1	17	17	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	275.8	2.0	0	0.00	64.	1012.	2	NAD-SFC NoSubs
7	1	17	17	2	-1.0	0.066	-9.000	-9.000	-999.	40.	26.1	0.0200	0.72	1.00	0.50	268.0	15.0	275.4	2.0	0	0.00	66.	1012.	2	NAD-SFC NoSubs
7	1	17	17	3	-2.5	0.080	-9.000	-9.000	-999.	54.	18.1	0.0420	0.72	1.00	1.00	279.0	15.0	274.9	2.0	0	0.00	68.	1012.	2	NAD-SFC NoSubs
7	1	17	17	4	-8.5	0.128	-9.000	-9.000	-999.	110.	22.2	0.0420	0.72	1.00	2.10	294.0	15.0	275.1	2.0	0	0.00	67.	1013.	2	NAD-SFC NoSubs
7	1	17	17	5	-10.3	0.145	-9.000	-9.000	-999.	132.	26.5	0.0800	0.72	1.00	2.10	303.0	15.0	275.0	2.0	0	0.00	68.	1013.	2	NAD-SFC NoSubs
7	1	17	17	6	-5.4	0.105	-9.000	-9.000	-999.	82.	19.7	0.0800	0.72	1.00	1.50	307.0	15.0	274.4	2.0	0	0.00	71.	1014.	2	NAD-SFC NoSubs
7	1	17	17	7	-4.6	0.095	-9.000	-9.000	-999.	71.	17.3	0.0420	0.72	1.00	1.50	290.0	15.0	273.9	2.0	0	0.00	72.	1014.	2	NAD-SFC NoSubs
7	1	17	17	8	-4.2	0.094	-9.000	-9.000	-999.	69.	17.7	0.0420	0.72	0.60	1.50	271.0	15.0	273.8	2.0	0	0.00	72.	1014.	2	NAD-SFC NoSubs
7	1	17	17	9	16.9	0.221	0.315	0.005	67.	250.	-58.1	0.0800	0.72	0.33	2.60	324.0	15.0	275.2	2.0	0	0.00	62.	1014.	2	NAD-SFC NoSubs
7	1	17	17	10	59.0	0.212	0.696	0.005	206.	234.	-14.6	0.0950	0.72	0.24	2.10	332.0	15.0	276.6	2.0	0	0.00	52.	1014.	2	NAD-SFC NoSubs
7	1	17	17	11	89.7	0.169	1.033	0.006	444.	168.	-4.9	0.0800	0.72	0.21	1.50	316.0	15.0	278.2	2.0	0	0.00	43.	1014.	2	NAD-SFC NoSubs
7	1	17	17	12	106.4	0.218	1.203	0.006	591.	244.	-8.8	0.0800	0.72	0.20	2.10	325.0	15.0	279.4	2.0	0	0.00	39.	1013.	2	NAD-SFC NoSubs
7	1	17	17	13	108.4	0.218	1.286	0.006	709.	244.	-8.6	0.0800	0.72	0.20	2.10	316.0	15.0	280.5	2.0	0	0.00	36.	1013.	2	NAD-SFC NoSubs
7	1	17	17	14	95.5	0.215	1.282	0.006	797.	240.	-9.4	0.0800	0.72	0.21	2.10	308.0	15.0	281.2	2.0	0	0.00	34.	1013.	2	NAD-SFC NoSubs
7	1	17	17	15	68.4	0.252	1.174	0.006	855.	304.	-21.2	0.0950	0.72	0.23	2.60	344.0	15.0	281.5	2.0	0	0.00	34.	1013.	2	NAD-SFC NoSubs
7	1	17	17	16	28.7	0.200	0.886	0.006	877.	215.	-25.1	0.0950	0.72	0.30	2.10	342.0	15.0	281.2	2.0	0	0.00	41.	1013.	2	NAD-SFC NoSubs
7	1	17	17	17	-8.7	0.153	-9.000	-9.000	-999.	144.	37.2	0.0950	0.72	0.50	2.10	348.0	15.0	280.8	2.0	0	0.00	43.	1013.	2	NAD-SFC NoSubs
7	1	17	17	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	279.8	2.0	0	0.00	47.	1014.	2	NAD-SFC NoSubs
7	1	17	17	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	278.5	2.0	0	0.00	52.	1014.	2	NAD-SFC NoSubs
7	1	17	17	20	-1.0	0.066	-9.000	-9.000	-999.	41.	26.2	0.0220	0.72	1.00	0.50	197.0	15.0	277.2	2.0	0	0.00	59.	1015.	2	NAD-SFC NoSubs
7	1	17	17	21	-1.0	0.066	-9.000	-9.000	-999.	41.	26.3	0.0220	0.72	1.00	0.50	188.0	15.0	276.0	2.0	0	0.00	64.	1015.	2	NAD-SFC NoSubs
7	1	17	17	22	-1.0	0.067	-9.000	-9.000	-999.	41.	26.5	0.0240	0.72	1.00	0.50	178.0	15.0	275.2	2.0	0	0.00	67.	1016.	2	NAD-SFC NoSubs
7	1	17	17	23	-1.1	0.068	-9.000	-9.000	-999.	43.	27.1	0.0310	0.72	1.00	0.50	111.0	15.0	274.6	2.0	0	0.00	69.	1016.	2	NAD-SFC NoSubs
7	1	17	17	24	-1.1	0.070	-9.000	-9.000	-999.	44.	27.8	0.0400	0.72	1.00	0.50	89.0	15.0	274.0	2.0	0	0.00	72.	1016.	2	NAD-SFC NoSubs
7	1	18	18	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	273.4	2.0	0	0.00	75.	1016.	2	NAD-SFC NoSubs
7	1	18	18	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	272.9	2.0	0	0.00	76.	1016.	2	NAD-SFC NoSubs
7	1	18	18	3	-1.1	0.070	-9.000	-9.000	-999.	45.	28.0	0.0420	0.72	1.00	0.50	299.0	15.0	272.6	2.0	0	0.00	75.	1016.	2	NAD-SFC NoSubs
7	1	18	18	4	-2.6	0.080	-9.000	-9.000	-999.	54.	18.2	0.0420	0.72	1.00	1.00	273.0	15.0	272.4	2.0	0	0.00	74.	1017.	2	NAD-SFC NoSubs
7	1	18	18	5	-2.2	0.074	-9.000	-9.000	-999.	49.	16.7	0.0200	0.72	1.00	1.00	265.0	15.0	272.2	2.0	0	0.00	73.	1017.	2	NAD-SFC NoSubs
7	1	18	18	6	-3.9	0.087	-9.000	-9.000	-999.	61.	15.2	0.0200	0.72	1.00	1.50	252.0	15.0	272.1	2.0	0	0.00	72.	1017.	2	NAD-SFC NoSubs
7	1	18	18	7	-4.0	0.088	-9.000	-9.000	-999.	62.	15.4	0.0220	0.72	1.00	1.50	239.0	15.0	272.1	2.0	0	0.00	71.	1017.	2	NAD-SFC NoSubs
7	1	18	18	8	-3.7	0.086	-9.000	-9.000	-999.	60.	15.7	0.0220	0.72	0.60	1.50	228.0	15.0	272.1	2.0	0	0.00	69.	1017.	2	NAD-SFC NoSubs
7	1	18	18	9	17.2	0.116	0.298	0.010	56.	94.	-8.2	0.0200	0.72	0.33	1.50	253.0	15.0	274.1	2.0	0	0.00	59.	1017.	2	NAD-SFC NoSubs
7	1	18	18	10	59.5	0.145	0.627	0.009	150.	133.	-4.7	0.0420	0.72	0.24	1.50	272.0	15.0	276.4	2.0	0	0.00	51.	1017.	2	NAD-SFC NoSubs
7	1	18	18	11	90.4	0.116	0.905	0.008	298.	95.	-1.6	0.0420	0.72	0.21	1.00	277.0	15.0	278.5	2.0	0	0.00	45.	1017.	2	NAD-SFC NoSubs
7	1	18	18	12	107.3	0.118	1.097	0.009	446.	98.	-1.4	0.0420	0.72	0.20	1.00	297.0	15.0	280.2	2.0	0	0.00	39.	1016.	2	NAD-SFC NoSubs
7	1	18	18	13	109.3	0.173	1.190	0.008	558.	173.	-4.3	0.0800	0.72	0.20	1.50	321.0	15.0	281.2	2.0	0	0.00	38.	1015.	2	NAD-SFC NoSubs
7	1	18	18	14	96.6	0.176	1.196	0.008	641.	178.	-5.1	0.0950	0.72	0.21	1.50	335.0	15.0	282.1	2.0	0	0.00	37.	1015.	2	NAD-SFC NoSubs
7	1	18	18	15	69.5	0.215	1.098	0.007	689.	240.	-13.0	0.0950	0.72	0.23	2.10	341.0	15.0	282.5	2.0	0	0.00	37.	1014.	2	NAD-SFC NoSubs
7	1	18	18	16	29.9	-9.000	-9.000	-9.000	707.	-999.	-99999.0	0.0471	0.72	0.30	0.00	0.0	15.0	282.4	2.0	0	0.00	42.	1014.	2	NAD-SFC NoSubs
7	1	18	18	17	-3.8	0.099	-9.000	-9.000	-999.	75.	23.3	0.0650	0.72	0.50	1.50	39.0	15.0	281.6	2.0	0	0.00	45.	1014.	2	NAD-SFC NoSubs
7	1	18	18	18	-2.5	0.079	-9.000	-9.000	-999.	53.	18.0	0.0400	0.72	1.00	1.00	69.0	15.0	280.4	2.0	0	0.00	50.	1014.	2	NAD-SFC NoSubs
7	1	18	18	19	-1.0	0.066	-9.000	-9.000	-999.	41.	26.4	0.0240	0.72	1.00	0.50	165.0	15.0	279.0	2.0	0	0.00	56.	1014.	2	NAD-SFC NoSubs
7	1	18	18	20	-1.0	0.066	-9.000	-9.000	-999.	41.	26.2	0.0220	0.72	1.00	0.50	230.0	15.0	277.8	2.0	0	0.00	62.	1014.	2	NAD-SFC NoSubs
7	1	18	18	21	-1.0	0.066	-9.000	-9.000	-999.	41.	26.3	0.0220	0.72	1.00	0.50	239.0	15.0	276.8	2.0	0	0.00	67.	1014.	2	NAD-SFC NoSubs
7	1	18	18	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	276.0	2.0	0	0.00	69.	1015.	2	NAD-SFC NoSubs
7	1	18	18	23	-1.1	0.068	-9.000	-9.000	-999.	43.	27.1	0.0310	0.72	1.00	0.50	93.0	15.0	275.4	2.0	0	0.00	71.	1015.	2	NAD-SFC NoSubs
7	1	18	18	24	-1.1	0.070	-9.000	-9.000	-999.	44.	27.8	0.0400	0.72	1.00	0.50	86.0	15.0	274.8	2.0	0	0.00	73.	1014.	2	NAD-SFC NoSubs
7	1	19	19	1	-1.1	0.068	-9.000	-9.000	-999.	43.	27.2	0.0310	0.72	1.00	0.50	107.0	15.0	274.4	2.0	0	0.00	73.	1014.	2	NAD-SFC NoSubs
7	1	19	19	2	-1.0	0.067	-9.000	-9.000	-999.	41.	26.6	0.0240	0.72	1.00	0.50	157.0	15.0	274.2	2.0	0	0.00	71.	1014.	2	NAD-SFC NoSubs
7	1	19	19	3	-1.0	0.066	-9.000	-9.000	-999.	41.	26.4	0.0220	0.72	1.00	0.50	205.0	15.0	274.1	2.0	0	0.00	68.	1013.	2	NAD-SFC NoSubs
7	1	19	19	4	-2.3	0.075	-9.000	-9.000	-999.	49.	16.9	0.0220	0.72	1.00	1.00	226.0	15.0	274.0	2.0	0	0.00	65.	1013.	2	NAD-SFC NoSubs
7	1	19	19	5	-3.9	0.087	-9.000	-9.000	-999.	61.	15.2	0.0200	0.72	1.00	1.50	253.0	15.0	274.1	2.0	0	0.00	62.	1013.	2	NAD-SFC NoSubs
7	1	19	19	6	-7.1	0.113	-9.000	-9.000	-999.	92.	18.6	0.0200	0.72	1.00	2.10	248.0	15.0	274.2	2.0	0	0.00	60.	1013.	2	NAD-SFC NoSubs
7	1	19	19	7	-7.1	0.113	-9.000	-9.000	-999.	92.	18.6	0.0200	0.72	1.00	2.10	252.0	15.0	274.2	2.0	0	0.00	59.	1013.	2	NAD-SFC NoSubs
7	1	19	19	8	-10.3	0.142	-9.000	-9.000	-999.	129.	25.3	0.0200	0.72	0.59	2.60	252.0	15.0	274.2	2.0	0	0.00	59.	1013.	2	NAD-SFC NoSubs
7	1	19	19	9	17.9	0.151	0.290	0.012	49.	140.	-17.3	0.0200	0.72	0.33	2.10	257.0	15.0	276.0	2.0	0	0.00	55.	1013.	2	NAD-SFC NoSubs
7	1	19	19	10	60.5	0.218	0.617	0.012	140.	244.	-15.4	0.0420	0.72	0.24	2.60	271.0	15.0	279.5	2.0	0	0.00	43.	1013.	2	NAD-SFC NoSubs
7	1	19	19	11	91.7	0.152	0.942	0.012	329.	143.	-3.4	0.0420	0.72	0.21	1.50	284.0	15.0	281.8	2.0	0	0.00	37.	1013.	2	NAD-SFC NoSubs
7	1	19	19	12	108.7	0.119	1.098	0.012	440.	98.	-1.4	0.0420	0.72	0.20	1.00	289.0	15.0	283.4	2.0	0	0.00	34.	1012.	2	NAD-SFC NoSubs
7	1	19	19	13	110.9	0.133	1.158	0.012	505.	117.	-1.9	0.0800	0.72	0.20	1.00	320.0	15.0	284.4	2.0	0	0.00	33.	1011.	2	NAD-SFC NoSubs
7	1	19	19	14	98.2	0.136	1.149	0.011	556.	120.	-2.3	0.0950	0.72	0.21	1.00	340.0	15.0	285.0	2.0	0	0.00	33.	1010.	2	NAD-SFC NoSubs
7	1	19	19	15	71.1	0.170	1.052	0.011	590.	169.	-6.3	0.0950	0.72	0.23	1.50	341.0	15.0	285.1	2.0	0	0.00	34.	1010.	2	NAD-SFC NoSubs
7	1	19	19	16	31.4	0.201	0.808	0.011	605.	217.	-23.4	0.0950	0.72	0.30	2.10	343.0	15.0	284.8	2.0	0	0.00	39.	1009.	2	NAD-SFC NoSubs
7	1	19	19	17	-4.1	0.107	-9.000	-9.000	-999.	88.	26.9	0.0950	0.72	0.49	1.50	354.0	15.0	283.8	2.0	0	0.00	44.	1009.	2	NAD-SFC NoSubs
7	1	19	19	18	-1.3	0.075	-9.000	-9.000	-999.	49.	29.7	0.0950	0.72	1.00	0.50	348.0	15.0	282.4	2.0	0	0.00	50.	1009.	2	NAD-SFC NoSubs
7	1	19	19	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	280.9	2.0	0	0.00	57.	1009.	2	NAD-SFC NoSubs
7	1	19	19	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	279.6	2.0	0	0.00	63.	1009.	2	NAD-SFC NoSubs
7	1	19	19	21	-1.1	0.069	-9.000	-9.000	-999.	44.	27.6	0.0400	0.72	1.00	0.50	77.0	15.0	278.4	2.0	0	0.00	69.	1009.	2	NAD-SFC NoSubs
7	1	19	19	22	-1.1	0.069	-9.000	-9.000	-999.	44.	27.7	0.0400	0.72	1.00	0.50	81.0	15.0	277.5	2.0	0	0.00	74.	1009.	2	NAD-SFC NoSubs
7	1	19	19	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	277.2	2.0	0	0.00	75.	1009.	2	NAD-SFC NoSubs
7	1	19	19	24	-1.1	0.070	-9.000	-9.000	-999.	44.	27.8	0.0420	0.72	1.00	0.50	286.0	15.0	277.5	2.0	0	0.00	73.	1009.	2	NAD-SFC NoSubs
7	1	20	20	1	-4.5	0.095	-9.000	-9.000	-999.	71.	17.3	0.0420	0.72	1.00	1.50	299.0	15.0	277.8	2.0	0	0.00	72.	1009.	2	NAD-SFC NoSubs
7	1	20	20	2	-10.2	0.145	-9.000	-9.000	-999.	132.	26.6	0.0800	0.72	1.00	2.10	313.0	15.0	277.8	2.0	0	0.00	73.	1009.	2	NAD-SFC NoSubs
7	1	20	20	3	-8.5	0.128	-9.000	-9.000	-999.	110.	22.3	0.0420	0.72	1.00	2.10	297.0	15.0	277.2	2.0	0	0.00	76.	1010.	2	NAD-SFC NoSubs
7	1	20	20	4	-8.5	0.128	-9.000	-9.000	-999.	110.	22.3	0.0420	0.72	1.00	2.10	294.0	15.0	276.8	2.0	0	0.00	80.	1010.	2	NAD-SFC NoSubs
7	1	20	20	5	-8.5	0.128	-9.000	-9.000	-999.	110.	22.2	0.0420	0.72	1.00	2.10	287.0	15.0	276.2	2.0	0	0.00	82.	1010.	2	NAD-SFC NoSubs

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 7  1 20  20  6  -13.2  0.161 -9.000 -9.000 -999.  155.     28.3  0.0420  0.72  1.00   2.60  283.0  15.0  275.8  2.0   0  0.00   83.  1010.    2 NAD-SFC NoSubs
 7  1 20  20  7  -13.2  0.161 -9.000 -9.000 -999.  155.     28.3  0.0420  0.72  1.00   2.60  285.0  15.0  275.4  2.0   0  0.00   83.  1011.    2 NAD-SFC NoSubs
 7  1 20  20  8   -7.9  0.128 -9.000 -9.000 -999.  110.     24.0  0.0420  0.72  0.59   2.10  278.0  15.0  275.1  2.0   0  0.00   81.  1011.    2 NAD-SFC NoSubs
 7  1 20  20  9   18.5  0.223  0.340  0.009   76.   252.    -53.8  0.0800  0.72  0.33   2.60  320.0  15.0  276.8  2.0   0  0.00   70.  1011.    2 NAD-SFC NoSubs
 7  1 20  20 10   61.0  0.168  0.692  0.009  196.   165.     -7.0  0.0950  0.72  0.24   1.50  335.0  15.0  278.2  2.0   0  0.00   64.  1011.    2 NAD-SFC NoSubs
 7  1 20  20 11   92.1  0.116  0.957  0.009  343.    96.     -1.5  0.0420  0.72  0.21   1.00  298.0  15.0  280.1  2.0   0  0.00   56.  1011.    2 NAD-SFC NoSubs
 7  1 20  20 12  109.1  0.119  1.130  0.009  476.    98.     -1.4  0.0420  0.72  0.20   1.00  296.0  15.0  281.4  2.0   0  0.00   52.  1010.    2 NAD-SFC NoSubs
 7  1 20  20 13  111.4  0.174  1.220  0.009  587.   174.     -4.2  0.0800  0.72  0.20   1.50  313.0  15.0  282.4  2.0   0  0.00   50.  1009.    2 NAD-SFC NoSubs
 7  1 20  20 14   98.8  0.171  1.223  0.009  668.   170.     -4.6  0.0800  0.72  0.21   1.50  310.0  15.0  283.2  2.0   0  0.00   47.  1009.    2 NAD-SFC NoSubs
 7  1 20  20 15   71.8  0.165  1.123  0.009  710.   161.     -5.7  0.0800  0.72  0.23   1.50  322.0  15.0  283.6  2.0   0  0.00   46.  1008.    2 NAD-SFC NoSubs
 7  1 20  20 16   32.3  0.196  0.869  0.009  729.   208.    -20.9  0.0800  0.72  0.30   2.10  323.0  15.0  284.8  2.0   0  0.00   52.  1008.    2 NAD-SFC NoSubs
 7  1 20  20 17   -3.7  0.103 -9.000 -9.000 -999.    83.     26.4  0.0800  0.72  0.49   1.50  321.0  15.0  284.4  2.0   0  0.00   56.  1008.    2 NAD-SFC NoSubs
 7  1 20  20 18   -1.2  0.074 -9.000 -9.000 -999.    48.     29.2  0.0800  0.72  1.00   0.50  309.0  15.0  283.4  2.0   0  0.00   60.  1008.    2 NAD-SFC NoSubs
 7  1 20  20 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  282.2  2.0   0  0.00   65.  1009.    2 NAD-SFC NoSubs
 7  1 20  20 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  281.2  2.0   0  0.00   71.  1009.    2 NAD-SFC NoSubs
 7  1 20  20 21   -1.0  0.066 -9.000 -9.000 -999.    41.     26.3  0.0240  0.72  1.00   0.50  159.0  15.0  280.1  2.0   0  0.00   76.  1010.    2 NAD-SFC NoSubs
 7  1 20  20 22   -1.0  0.066 -9.000 -9.000 -999.    41.     26.4  0.0240  0.72  1.00   0.50  154.0  15.0  279.2  2.0   0  0.00   80.  1010.    2 NAD-SFC NoSubs
 7  1 20  20 23   -1.0  0.067 -9.000 -9.000 -999.    42.     26.8  0.0280  0.72  1.00   0.50  149.0  15.0  278.8  2.0   0  0.00   81.  1011.    2 NAD-SFC NoSubs
 7  1 20  20 24   -1.0  0.066 -9.000 -9.000 -999.    40.     26.2  0.0220  0.72  1.00   0.50  218.0  15.0  278.2  2.0   0  0.00   81.  1011.    2 NAD-SFC NoSubs
 7  1 21  21  1   -1.0  0.065 -9.000 -9.000 -999.    40.     26.0  0.0200  0.72  1.00   0.50  249.0  15.0  278.0  2.0   0  0.00   81.  1011.    2 NAD-SFC NoSubs
 7  1 21  21  2   -2.2  0.074 -9.000 -9.000 -999.    48.     16.7  0.0200  0.72  1.00   1.00  260.0  15.0  277.6  2.0   0  0.00   82.  1011.    2 NAD-SFC NoSubs
 7  1 21  21  3   -3.8  0.086 -9.000 -9.000 -999.    61.     15.2  0.0200  0.72  1.00   1.50  269.0  15.0  277.2  2.0   0  0.00   84.  1011.    2 NAD-SFC NoSubs
 7  1 21  21  4   -8.5  0.128 -9.000 -9.000 -999.   110.     22.3  0.0420  0.72  1.00   2.10  280.0  15.0  276.9  2.0   0  0.00   84.  1011.    2 NAD-SFC NoSubs
 7  1 21  21  5   -8.5  0.128 -9.000 -9.000 -999.   110.     22.3  0.0420  0.72  1.00   2.10  277.0  15.0  276.6  2.0   0  0.00   83.  1012.    2 NAD-SFC NoSubs
 7  1 21  21  6   -4.5  0.095 -9.000 -9.000 -999.    71.     17.3  0.0420  0.72  1.00   1.50  271.0  15.0  276.2  2.0   0  0.00   80.  1012.    2 NAD-SFC NoSubs
 7  1 21  21  7   -3.9  0.087 -9.000 -9.000 -999.    61.     15.2  0.0200  0.72  1.00   1.50  259.0  15.0  276.0  2.0   0  0.00   77.  1012.    2 NAD-SFC NoSubs
 7  1 21  21  8   -3.5  0.084 -9.000 -9.000 -999.    59.     15.5  0.0200  0.72  0.59   1.50  247.0  15.0  275.8  2.0   0  0.00   75.  1012.    2 NAD-SFC NoSubs
 7  1 21  21  9   19.1  0.109  0.332  0.010   69.    86.     -6.1  0.0800  0.72  0.33   1.00  325.0  15.0  277.8  2.0   0  0.00   64.  1012.    2 NAD-SFC NoSubs
 7  1 21  21 10   61.9  0.081  0.681  0.008  184.    55.     -1.0  0.0800  0.72  0.24   0.50  320.0  15.0  279.8  2.0   0  0.00   54.  1012.    2 NAD-SFC NoSubs
 7  1 21  21 11   93.1  0.131  0.945  0.006  327.   113.     -2.2  0.0800  0.72  0.21   1.00  302.0  15.0  281.5  2.0   0  0.00   46.  1012.    2 NAD-SFC NoSubs
 7  1 21  21 12  110.2  0.173  1.137  0.006  481.   173.     -4.3  0.0800  0.72  0.20   1.50  305.0  15.0  282.8  2.0   0  0.00   41.  1011.    2 NAD-SFC NoSubs
 7  1 21  21 13  112.6  0.219  1.250  0.006  627.   246.     -8.4  0.0800  0.72  0.20   2.10  309.0  15.0  284.0  2.0   0  0.00   36.  1011.    2 NAD-SFC NoSubs
 7  1 21  21 14  100.1  0.216  1.262  0.006  725.   242.     -9.1  0.0800  0.72  0.21   2.10  316.0  15.0  284.8  2.0   0  0.00   34.  1011.    2 NAD-SFC NoSubs
 7  1 21  21 15   73.2  0.166  1.169  0.006  788.   162.     -5.6  0.0800  0.72  0.23   1.50  320.0  15.0  285.2  2.0   0  0.00   33.  1011.    2 NAD-SFC NoSubs
 7  1 21  21 16   33.5  0.066  0.911  0.006  815.    47.     -1.0  0.0420  0.72  0.29   0.50  288.0  15.0  285.2  2.0   0  0.00   35.  1011.    2 NAD-SFC NoSubs
 7  1 21  21 17   -1.3  0.060 -9.000 -9.000 -999.    35.     15.5  0.0240  0.72  0.48   1.00  178.0  15.0  284.6  2.0   0  0.00   39.  1011.    2 NAD-SFC NoSubs
 7  1 21  21 18   -3.9  0.088 -9.000 -9.000 -999.    63.     15.7  0.0240  0.72  1.00   1.50  174.0  15.0  283.2  2.0   0  0.00   45.  1012.    2 NAD-SFC NoSubs
 7  1 21  21 19  -16.3  0.177 -9.000 -9.000 -999.   178.     30.5  0.0240  0.72  1.00   3.10  176.0  15.0  282.2  2.0   0  0.00   48.  1013.    2 NAD-SFC NoSubs
 7  1 21  21 20  -29.5  0.265 -9.000 -9.000 -999.   328.     57.2  0.0220  0.72  1.00   4.60  199.0  15.0  281.1  2.0   0  0.00   49.  1013.    2 NAD-SFC NoSubs
 7  1 21  21 21  -26.2  0.235 -9.000 -9.000 -999.   274.     44.7  0.0220  0.72  1.00   4.10  206.0  15.0  279.9  2.0   0  0.00   51.  1013.    2 NAD-SFC NoSubs
 7  1 21  21 22  -26.3  0.235 -9.000 -9.000 -999.   273.     44.6  0.0220  0.72  1.00   4.10  217.0  15.0  279.2  2.0   0  0.00   50.  1014.    2 NAD-SFC NoSubs
 7  1 21  21 23  -22.0  0.205 -9.000 -9.000 -999.   222.     35.3  0.0220  0.72  1.00   3.60  228.0  15.0  278.8  2.0   0  0.00   50.  1014.    2 NAD-SFC NoSubs
 7  1 21  21 24  -22.0  0.205 -9.000 -9.000 -999.   222.     35.2  0.0220  0.72  1.00   3.60  229.0  15.0  278.2  2.0   0  0.00   50.  1014.    2 NAD-SFC NoSubs
 7  1 22  22  1  -21.5  0.202 -9.000 -9.000 -999.   217.     34.4  0.0200  0.72  1.00   3.60  252.0  15.0  277.8  2.0   0  0.00   50.  1015.    2 NAD-SFC NoSubs
 7  1 22  22  2  -29.5  0.262 -9.000 -9.000 -999.   322.     55.0  0.0420  0.72  1.00   4.10  271.0  15.0  277.5  2.0   0  0.00   50.  1015.    2 NAD-SFC NoSubs
 7  1 22  22  3  -29.6  0.262 -9.000 -9.000 -999.   322.     54.9  0.0420  0.72  1.00   4.10  280.0  15.0  277.1  2.0   0  0.00   50.  1016.    2 NAD-SFC NoSubs
 7  1 22  22  4  -25.9  0.228 -9.000 -9.000 -999.   262.     41.7  0.0420  0.72  1.00   3.60  294.0  15.0  276.8  2.0   0  0.00   51.  1016.    2 NAD-SFC NoSubs
 7  1 22  22  5  -16.1  0.182 -9.000 -9.000 -999.   187.     34.0  0.0800  0.72  1.00   2.60  305.0  15.0  276.2  2.0   0  0.00   52.  1017.    2 NAD-SFC NoSubs
 7  1 22  22  6   -8.6  0.128 -9.000 -9.000 -999.   110.     22.2  0.0420  0.72  1.00   2.10  292.0  15.0  275.9  2.0   0  0.00   54.  1018.    2 NAD-SFC NoSubs
 7  1 22  22  7   -3.9  0.087 -9.000 -9.000 -999.    61.     15.2  0.0200  0.72  1.00   1.50  267.0  15.0  275.6  2.0   0  0.00   54.  1018.    2 NAD-SFC NoSubs
 7  1 22  22  8   -4.1  0.093 -9.000 -9.000 -999.    68.     17.9  0.0420  0.72  0.58   1.50  272.0  15.0  275.4  2.0   0  0.00   54.  1018.    2 NAD-SFC NoSubs
 7  1 22  22  9   19.6  0.087  0.327  0.010   64.    62.     -3.1  0.0200  0.72  0.33   1.00  268.0  15.0  277.2  2.0   0  0.00   49.  1018.    2 NAD-SFC NoSubs
 7  1 22  22 10   62.6  0.072  0.690  0.008  191.    46.     -1.0  0.0420  0.72  0.24   0.50  294.0  15.0  279.9  2.0   0  0.00   40.  1018.    2 NAD-SFC NoSubs
 7  1 22  22 11   93.9 -9.000 -9.000 -9.000  357. -999. -99999.0  0.0471  0.72  0.21   0.00    0.0  15.0  281.8  2.0   0  0.00   35.  1018.    2 NAD-SFC NoSubs
 7  1 22  22 12  111.2  0.090  1.157  0.008  505.    65.     -1.0  0.0950  0.72  0.20   0.50  343.0  15.0  283.0  2.0   0  0.00   34.  1017.    2 NAD-SFC NoSubs
 7  1 22  22 13  113.6  0.138  1.251  0.008  625.   123.     -2.1  0.0950  0.72  0.20   1.00  337.0  15.0  284.0  2.0   0  0.00   34.  1016.    2 NAD-SFC NoSubs
 7  1 22  22 14  101.1  0.172  1.252  0.007  703.   171.     -4.5  0.0800  0.72  0.21   1.50  327.0  15.0  284.8  2.0   0  0.00   34.  1015.    2 NAD-SFC NoSubs
 7  1 22  22 15   74.2  0.217  1.154  0.007  750.   242.    -12.4  0.0950  0.72  0.23   2.10  335.0  15.0  285.1  2.0   0  0.00   34.  1015.    2 NAD-SFC NoSubs
 7  1 22  22 16   34.5  0.203  0.902  0.007  771.   220.    -22.0  0.0960  0.72  0.29   2.10    4.0  15.0  285.0  2.0   0  0.00   39.  1015.    2 NAD-SFC NoSubs
 7  1 22  22 17   -7.6  0.155 -9.000 -9.000 -999.   147.     44.0  0.0960  0.72  0.48   2.10   29.0  15.0  284.2  2.0   0  0.00   42.  1015.    2 NAD-SFC NoSubs
 7  1 22  22 18   -9.5  0.139 -9.000 -9.000 -999.   124.     25.4  0.0650  0.72  1.00   2.10   46.0  15.0  283.0  2.0   0  0.00   46.  1015.    2 NAD-SFC NoSubs
 7  1 22  22 19   -1.1  0.069 -9.000 -9.000 -999.    45.     27.5  0.0400  0.72  1.00   0.50   75.0  15.0  281.8  2.0   0  0.00   52.  1015.    2 NAD-SFC NoSubs
 7  1 22  22 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  280.5  2.0   0  0.00   58.  1016.    2 NAD-SFC NoSubs
 7  1 22  22 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  279.5  2.0   0  0.00   64.  1016.    2 NAD-SFC NoSubs
 7  1 22  22 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  278.6  2.0   0  0.00   68.  1016.    2 NAD-SFC NoSubs
 7  1 22  22 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  278.0  2.0   0  0.00   71.  1017.    2 NAD-SFC NoSubs
 7  1 22  22 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  277.4  2.0   0  0.00   74.  1017.    2 NAD-SFC NoSubs
 7  1 23  23  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  276.9  2.0   0  0.00   75.  1017.    2 NAD-SFC NoSubs
 7  1 23  23  2   -1.3  0.074 -9.000 -9.000 -999.    49.     29.5  0.0800  0.72  1.00   0.50  307.0  15.0  276.5  2.0   0  0.00   77.  1017.    2 NAD-SFC NoSubs
 7  1 23  23  3   -2.9  0.086 -9.000 -9.000 -999.    60.     19.6  0.0800  0.72  1.00   1.00  320.0  15.0  276.2  2.0   0  0.00   78.  1017.    2 NAD-SFC NoSubs
 7  1 23  23  4   -3.0  0.088 -9.000 -9.000 -999.    62.     20.0  0.0950  0.72  1.00   1.00  330.0  15.0  275.9  2.0   0  0.00   78.  1017.    2 NAD-SFC NoSubs
 7  1 23  23  5   -2.9  0.086 -9.000 -9.000 -999.    60.     19.6  0.0800  0.72  1.00   1.00  329.0  15.0  275.6  2.0   0  0.00   79.  1017.    2 NAD-SFC NoSubs
 7  1 23  23  6   -1.3  0.074 -9.000 -9.000 -999.    49.     29.5  0.0800  0.72  1.00   0.50  321.0  15.0  275.2  2.0   0  0.00   80.  1018.    2 NAD-SFC NoSubs
 7  1 23  23  7   -1.1  0.070 -9.000 -9.000 -999.    44.     27.9  0.0420  0.72  1.00   0.50  299.0  15.0  275.0  2.0   0  0.00   81.  1018.    2 NAD-SFC NoSubs
 7  1 23  23  8   -2.2  0.075 -9.000 -9.000 -999.    50.     17.5  0.0420  0.72  0.58   1.00  287.0  15.0  274.8  2.0   0  0.00   80.  1018.    2 NAD-SFC NoSubs
 7  1 23  23  9   20.2  0.146  0.319  0.011   58.   134.    -14.0  0.0800  0.72  0.32   1.50  315.0  15.0  277.2  2.0   0  0.00   66.  1018.    2 NAD-SFC NoSubs
 7  1 23  23 10   63.2  0.146  0.657  0.011  163.   134.     -4.5  0.0420  0.72  0.24   1.50  299.0  15.0  279.2  2.0   0  0.00   59.  1018.    2 NAD-SFC NoSubs
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 7  1 23  23 11   94.6  0.117  0.933  0.011  312.   96.    -1.5  0.0420  0.72  0.21   1.00  296.0  15.0  281.1  2.0   0  0.00  53.  1018.   2 NAD-SFC NoSubs
 7  1 23  23 12  112.0  0.133  1.101  0.012  432.  117.    -1.9  0.0800  0.72  0.20   1.00  304.0  15.0  282.9  2.0   0  0.00  48.  1017.   2 NAD-SFC NoSubs
 7  1 23  23 13  114.6  0.134  1.181  0.011  521.  117.    -1.9  0.0800  0.72  0.20   1.00  300.0  15.0  284.4  2.0   0  0.00  42.  1016.   2 NAD-SFC NoSubs
 7  1 23  23 14  102.2  0.132  1.185  0.011  590.  115.    -2.0  0.0800  0.72  0.21   1.00  309.0  15.0  285.2  2.0   0  0.00  40.  1015.   2 NAD-SFC NoSubs
 7  1 23  23 15   75.3  0.127  1.098  0.010  636.  109.    -2.5  0.0800  0.72  0.23   1.00  310.0  15.0  285.5  2.0   0  0.00  39.  1014.   2 NAD-SFC NoSubs
 7  1 23  23 16   35.5  0.117  0.864  0.010  656.   96.    -4.0  0.0800  0.72  0.29   1.00  323.0  15.0  285.2  2.0   0  0.00  43.  1014.   2 NAD-SFC NoSubs
 7  1 23  23 17   -0.6  0.053 -9.000 -9.000 -999.   31.    22.8  0.0950  0.72  0.47   0.50  342.0  15.0  284.2  2.0   0  0.00  47.  1014.   2 NAD-SFC NoSubs
 7  1 23  23 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  283.2  2.0   0  0.00  53.  1014.   2 NAD-SFC NoSubs
 7  1 23  23 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  282.2  2.0   0  0.00  58.  1014.   2 NAD-SFC NoSubs
 7  1 23  23 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  281.2  2.0   0  0.00  63.  1014.   2 NAD-SFC NoSubs
 7  1 23  23 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  280.5  2.0   0  0.00  67.  1014.   2 NAD-SFC NoSubs
 7  1 23  23 22   -1.2  0.072 -9.000 -9.000 -999.   47.    28.8  0.0650  0.72  1.00   0.50   37.0  15.0  279.9  2.0   0  0.00  70.  1014.   2 NAD-SFC NoSubs
 7  1 23  23 23   -3.0  0.087 -9.000 -9.000 -999.   62.    20.0  0.0960  0.72  1.00   1.00   27.0  15.0  279.4  2.0   0  0.00  72.  1013.   2 NAD-SFC NoSubs
 7  1 23  23 24   -1.3  0.075 -9.000 -9.000 -999.   50.    29.9  0.0960  0.72  1.00   0.50   10.0  15.0  279.0  2.0   0  0.00  73.  1013.   2 NAD-SFC NoSubs
 7  1 24  24  1   -1.3  0.075 -9.000 -9.000 -999.   50.    29.9  0.0950  0.72  1.00   0.50  346.0  15.0  278.8  2.0   0  0.00  75.  1013.   2 NAD-SFC NoSubs
 7  1 24  24  2   -3.0  0.087 -9.000 -9.000 -999.   62.    20.0  0.0950  0.72  1.00   1.00  349.0  15.0  278.4  2.0   0  0.00  76.  1014.   2 NAD-SFC NoSubs
 7  1 24  24  3   -5.6  0.109 -9.000 -9.000 -999.   86.    20.7  0.0960  0.72  1.00   1.50    7.0  15.0  278.1  2.0   0  0.00  77.  1014.   2 NAD-SFC NoSubs
 7  1 24  24  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  277.9  2.0   0  0.00  78.  1014.   2 NAD-SFC NoSubs
 7  1 24  24  5   -5.3  0.105 -9.000 -9.000 -999.   82.    19.8  0.0800  0.72  1.00   1.50  319.0  15.0  277.5  2.0   0  0.00  79.  1014.   2 NAD-SFC NoSubs
 7  1 24  24  6   -8.5  0.128 -9.000 -9.000 -999.  110.    22.3  0.0420  0.72  1.00   2.10  292.0  15.0  277.1  2.0   0  0.00  79.  1014.   2 NAD-SFC NoSubs
 7  1 24  24  7  -13.2  0.161 -9.000 -9.000 -999.  155.    28.4  0.0420  0.72  1.00   2.60  277.0  15.0  276.9  2.0   0  0.00  79.  1015.   2 NAD-SFC NoSubs
 7  1 24  24  8   -7.8  0.129 -9.000 -9.000 -999.  111.    24.6  0.0420  0.72  0.58   2.10  293.0  15.0  276.9  2.0   0  0.00  77.  1015.   2 NAD-SFC NoSubs
 7  1 24  24  9   21.0  0.147  0.329  0.015   61.  135.   -13.6  0.0800  0.72  0.32   1.50  318.0  15.0  278.8  2.0   0  0.00  68.  1015.   2 NAD-SFC NoSubs
 7  1 24  24 10   64.3  0.163  0.643  0.014  150.  158.    -6.1  0.0800  0.72  0.24   1.50  314.0  15.0  281.2  2.0   0  0.00  59.  1015.   2 NAD-SFC NoSubs
 7  1 24  24 11   95.9  0.171  0.888  0.013  264.  169.    -4.7  0.0800  0.72  0.21   1.50  327.0  15.0  283.1  2.0   0  0.00  54.  1015.   2 NAD-SFC NoSubs
 7  1 24  24 12  113.4  0.179  1.056  0.013  376.  183.    -4.6  0.0950  0.72  0.20   1.50  338.0  15.0  284.9  2.0   0  0.00  49.  1014.   2 NAD-SFC NoSubs
 7  1 24  24 13  116.1  0.226  1.137  0.012  458.  259.    -9.0  0.0950  0.72  0.20   2.10  339.0  15.0  286.4  2.0   0  0.00  43.  1013.   2 NAD-SFC NoSubs
 7  1 24  24 14  103.8  0.224  1.143  0.011  520.  254.    -9.8  0.0950  0.72  0.21   2.10  347.0  15.0  287.1  2.0   0  0.00  42.  1013.   2 NAD-SFC NoSubs
 7  1 24  24 15   76.9  0.254  1.061  0.011  561.  308.   -19.3  0.0950  0.72  0.23   2.60  353.0  15.0  287.2  2.0   0  0.00  43.  1012.   2 NAD-SFC NoSubs
 7  1 24  24 16   37.0  0.204  0.841  0.011  579.  222.   -20.6  0.0950  0.72  0.29   2.10  358.0  15.0  286.9  2.0   0  0.00  48.  1012.   2 NAD-SFC NoSubs
 7  1 24  24 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.46   0.00    0.0  15.0  286.0  2.0   0  0.00  52.  1012.   2 NAD-SFC NoSubs
 7  1 24  24 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  284.8  2.0   0  0.00  57.  1012.   2 NAD-SFC NoSubs
 7  1 24  24 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  283.6  2.0   0  0.00  62.  1012.   2 NAD-SFC NoSubs
 7  1 24  24 20   -1.3  0.075 -9.000 -9.000 -999.   49.    29.7  0.0950  0.72  1.00   0.50  342.0  15.0  282.6  2.0   0  0.00  67.  1013.   2 NAD-SFC NoSubs
 7  1 24  24 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  281.6  2.0   0  0.00  72.  1013.   2 NAD-SFC NoSubs
 7  1 24  24 22  -10.8  0.150 -9.000 -9.000 -999.  140.    28.3  0.0960  0.72  1.00   2.10   25.0  15.0  280.8  2.0   0  0.00  75.  1013.   2 NAD-SFC NoSubs
 7  1 24  24 23  -10.8  0.150 -9.000 -9.000 -999.  140.    28.3  0.0960  0.72  1.00   2.10   13.0  15.0  280.2  2.0   0  0.00  77.  1014.   2 NAD-SFC NoSubs
 7  1 24  24 24   -5.6  0.108 -9.000 -9.000 -999.   86.    20.7  0.0950  0.72  1.00   1.50  349.0  15.0  279.9  2.0   0  0.00  78.  1014.   2 NAD-SFC NoSubs
 7  1 25  25  1   -2.9  0.085 -9.000 -9.000 -999.   60.    19.6  0.0800  0.72  1.00   1.00  300.0  15.0  279.8  2.0   0  0.00  79.  1014.   2 NAD-SFC NoSubs
 7  1 25  25  2   -4.5  0.095 -9.000 -9.000 -999.   70.    17.3  0.0420  0.72  1.00   1.50  292.0  15.0  279.8  2.0   0  0.00  77.  1014.   2 NAD-SFC NoSubs
 7  1 25  25  3   -5.3  0.105 -9.000 -9.000 -999.   82.    19.8  0.0800  0.72  1.00   1.50  304.0  15.0  279.9  2.0   0  0.00  75.  1014.   2 NAD-SFC NoSubs
 7  1 25  25  4   -5.3  0.105 -9.000 -9.000 -999.   82.    19.8  0.0800  0.72  1.00   1.50  315.0  15.0  279.8  2.0   0  0.00  73.  1015.   2 NAD-SFC NoSubs
 7  1 25  25  5   -2.9  0.085 -9.000 -9.000 -999.   60.    19.6  0.0800  0.72  1.00   1.00  321.0  15.0  279.6  2.0   0  0.00  72.  1015.   2 NAD-SFC NoSubs
 7  1 25  25  6   -2.9  0.085 -9.000 -9.000 -999.   60.    19.6  0.0800  0.72  1.00   1.00  315.0  15.0  279.4  2.0   0  0.00  71.  1015.   2 NAD-SFC NoSubs
 7  1 25  25  7   -2.5  0.079 -9.000 -9.000 -999.   54.    18.1  0.0420  0.72  1.00   1.00  296.0  15.0  279.0  2.0   0  0.00  71.  1015.   2 NAD-SFC NoSubs
 7  1 25  25  8   -2.1  0.074 -9.000 -9.000 -999.   49.    17.4  0.0420  0.72  0.57   1.00  291.0  15.0  278.6  2.0   0  0.00  71.  1015.   2 NAD-SFC NoSubs
 7  1 25  25  9   22.0  0.147  0.362  0.013   78.  136.   -13.1  0.0800  0.72  0.32   1.50  314.0  15.0  280.4  2.0   0  0.00  58.  1014.   2 NAD-SFC NoSubs
 7  1 25  25 10   65.3  0.164  0.675  0.012  170.  159.    -6.1  0.0800  0.72  0.24   1.50  312.0  15.0  282.1  2.0   0  0.00  53.  1014.   2 NAD-SFC NoSubs
 7  1 25  25 11   97.0  0.171  0.900  0.009  272.  170.    -4.7  0.0800  0.72  0.21   1.50  321.0  15.0  284.2  2.0   0  0.00  48.  1014.   2 NAD-SFC NoSubs
 7  1 25  25 12  114.5  0.174  1.051  0.008  366.  174.    -4.2  0.0800  0.72  0.20   1.50  328.0  15.0  285.6  2.0   0  0.00  46.  1012.   2 NAD-SFC NoSubs
 7  1 25  25 13  117.2  0.227  1.163  0.007  485.  259.    -9.0  0.0950  0.72  0.20   2.10  333.0  15.0  286.6  2.0   0  0.00  45.  1011.   2 NAD-SFC NoSubs
 7  1 25  25 14  104.9  0.178  1.193  0.007  584.  181.    -4.8  0.0950  0.72  0.20   1.50  342.0  15.0  287.2  2.0   0  0.00  44.  1011.   2 NAD-SFC NoSubs
 7  1 25  25 15   78.1 -9.000 -9.000 -9.000  649. -999. -99999.0  0.0471  0.72  0.23   0.00    0.0  15.0  287.5  2.0   0  0.00  44.  1010.   2 NAD-SFC NoSubs
 7  1 25  25 16   38.9  0.161  0.907  0.006  690.  155.    -9.6  0.0960  0.72  0.28   1.50   10.0  15.0  289.5  2.0   0  0.00  41.  1009.   2 NAD-SFC NoSubs
 7  1 25  25 17   -2.8  0.101 -9.000 -9.000 -999.   78.    32.8  0.0650  0.72  0.46   1.50   36.0  15.0  288.8  2.0   0  0.00  45.  1008.   2 NAD-SFC NoSubs
 7  1 25  25 18   -1.1  0.068 -9.000 -9.000 -999.   43.    27.3  0.0400  0.72  1.00   0.50   71.0  15.0  287.6  2.0   0  0.00  49.  1008.   2 NAD-SFC NoSubs
 7  1 25  25 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  286.2  2.0   0  0.00  55.  1008.   2 NAD-SFC NoSubs
 7  1 25  25 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  284.9  2.0   0  0.00  61.  1008.   2 NAD-SFC NoSubs
 7  1 25  25 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  284.0  2.0   0  0.00  66.  1008.   2 NAD-SFC NoSubs
 7  1 25  25 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  283.2  2.0   0  0.00  69.  1008.   2 NAD-SFC NoSubs
 7  1 25  25 23   -1.1  0.069 -9.000 -9.000 -999.   43.    27.5  0.0400  0.72  1.00   0.50   67.0  15.0  282.5  2.0   0  0.00  72.  1008.   2 NAD-SFC NoSubs
 7  1 25  25 24   -2.7  0.083 -9.000 -9.000 -999.   57.    19.0  0.0650  0.72  1.00   1.00   50.0  15.0  281.8  2.0   0  0.00  75.  1008.   2 NAD-SFC NoSubs
 7  1 26  26  1   -5.0  0.102 -9.000 -9.000 -999.   78.    19.0  0.0650  0.72  1.00   1.50   32.0  15.0  281.2  2.0   0  0.00  77.  1008.   2 NAD-SFC NoSubs
 7  1 26  26  2   -5.6  0.109 -9.000 -9.000 -999.   86.    20.8  0.0960  0.72  1.00   1.50   25.0  15.0  281.0  2.0   0  0.00  77.  1008.   2 NAD-SFC NoSubs
 7  1 26  26  3   -3.0  0.087 -9.000 -9.000 -999.   62.    20.0  0.0960  0.72  1.00   1.00    8.0  15.0  280.8  2.0   0  0.00  77.  1008.   2 NAD-SFC NoSubs
 7  1 26  26  4   -1.2  0.074 -9.000 -9.000 -999.   48.    29.3  0.0800  0.72  1.00   0.50  328.0  15.0  280.2  2.0   0  0.00  77.  1008.   2 NAD-SFC NoSubs
 7  1 26  26  5   -2.9  0.085 -9.000 -9.000 -999.   60.    19.6  0.0800  0.72  1.00   1.00  324.0  15.0  279.8  2.0   0  0.00  79.  1008.   2 NAD-SFC NoSubs
 7  1 26  26  6   -5.3  0.105 -9.000 -9.000 -999.   82.    19.8  0.0800  0.72  1.00   1.50  306.0  15.0  279.2  2.0   0  0.00  81.  1008.   2 NAD-SFC NoSubs
 7  1 26  26  7  -10.2  0.145 -9.000 -9.000 -999.  132.    26.7  0.0800  0.72  1.00   2.10  313.0  15.0  279.0  2.0   0  0.00  82.  1008.   2 NAD-SFC NoSubs
 7  1 26  26  8   -9.3  0.146 -9.000 -9.000 -999.  133.    30.0  0.0800  0.72  0.57   2.10  316.0  15.0  279.0  2.0   0  0.00  82.  1009.   2 NAD-SFC NoSubs
 7  1 26  26  9   22.7  0.196  0.336  0.008   60.  209.   -29.9  0.0950  0.72  0.32   2.10  333.0  15.0  281.0  2.0   0  0.00  71.  1009.   2 NAD-SFC NoSubs
 7  1 26  26 10   66.3  0.208  0.668  0.007  162.  228.   -12.2  0.0800  0.72  0.24   2.10  324.0  15.0  283.1  2.0   0  0.00  62.  1009.   2 NAD-SFC NoSubs
 7  1 26  26 11   98.1  0.216  0.939  0.006  303.  241.    -9.2  0.0800  0.72  0.21   2.10  322.0  15.0  285.1  2.0   0  0.00  55.  1008.   2 NAD-SFC NoSubs
 7  1 26  26 12  115.8  0.220  1.135  0.005  454.  247.    -8.2  0.0800  0.72  0.20   2.10  316.0  15.0  286.9  2.0   0  0.00  47.  1008.   2 NAD-SFC NoSubs
 7  1 26  26 13  118.6  0.220  1.262  0.005  609.  248.    -8.1  0.0800  0.72  0.20   2.10  316.0  15.0  288.0  2.0   0  0.00  44.  1007.   2 NAD-SFC NoSubs
 7  1 26  26 14  106.4  0.218  1.295  0.005  733.  244.    -8.7  0.0800  0.72  0.20   2.10  322.0  15.0  288.8  2.0   0  0.00  41.  1007.   2 NAD-SFC NoSubs
 7  1 26  26 15   79.6  0.247  1.221  0.005  820.  295.   -17.1  0.0800  0.72  0.22   2.60  316.0  15.0  289.0  2.0   0  0.00  41.  1006.   2 NAD-SFC NoSubs
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7	1	26	26	16	39.7	0.199	0.984	0.005	860.	214.	-17.8	0.0800	0.72	0.28	2.10	320.0	15.0	288.8	2.0	0	0.00	46.	1006.	2	NAD-SFC	NoSubs
7	1	26	26	17	-5.0	0.151	-9.000	-9.000	-999.	141.	62.4	0.0800	0.72	0.45	2.10	325.0	15.0	288.0	2.0	0	0.00	49.	1006.	2	NAD-SFC	NoSubs
7	1	26	26	18	-5.2	0.105	-9.000	-9.000	-999.	82.	20.0	0.0800	0.72	1.00	1.50	321.0	15.0	286.9	2.0	0	0.00	52.	1006.	2	NAD-SFC	NoSubs
7	1	26	26	19	-0.9	0.064	-9.000	-9.000	-999.	39.	25.5	0.0200	0.72	1.00	0.50	244.0	15.0	285.5	2.0	0	0.00	58.	1007.	3	NAD-SFC	NoSubs
7	1	26	26	20	-2.1	0.073	-9.000	-9.000	-999.	48.	16.6	0.0220	0.72	1.00	1.00	228.0	15.0	284.2	2.0	0	0.00	63.	1007.	3	NAD-SFC	NoSubs
7	1	26	26	21	-3.7	0.086	-9.000	-9.000	-999.	60.	15.3	0.0200	0.72	1.00	1.50	256.0	15.0	283.5	2.0	0	0.00	66.	1007.	3	NAD-SFC	NoSubs
7	1	26	26	22	-8.3	0.128	-9.000	-9.000	-999.	110.	22.8	0.0420	0.72	1.00	2.10	276.0	15.0	282.6	2.0	0	0.00	72.	1008.	3	NAD-SFC	NoSubs
7	1	26	26	23	-22.5	0.220	-9.000	-9.000	-999.	248.	42.8	0.0800	0.72	1.00	3.10	304.0	15.0	281.6	2.0	0	0.00	85.	1008.	3	NAD-SFC	NoSubs
7	1	26	26	24	-18.6	0.195	-9.000	-9.000	-999.	206.	35.6	0.0420	0.72	1.00	3.10	298.0	15.0	280.6	2.0	0	0.00	98.	1008.	3	NAD-SFC	NoSubs
7	1	27	27	1	-18.6	0.195	-9.000	-9.000	-999.	206.	35.6	0.0420	0.72	1.00	3.10	291.0	15.0	280.2	2.0	0	0.00	100.	1008.	3	NAD-SFC	NoSubs
7	1	27	27	2	-18.7	0.195	-9.000	-9.000	-999.	206.	35.6	0.0420	0.72	1.00	3.10	292.0	15.0	280.0	2.0	0	0.00	100.	1009.	3	NAD-SFC	NoSubs
7	1	27	27	3	-12.9	0.161	-9.000	-9.000	-999.	155.	29.0	0.0420	0.72	1.00	2.60	291.0	15.0	279.8	2.0	0	0.00	100.	1009.	3	NAD-SFC	NoSubs
7	1	27	27	4	-8.3	0.128	-9.000	-9.000	-999.	110.	22.7	0.0420	0.72	1.00	2.10	281.0	15.0	279.6	2.0	0	0.00	100.	1009.	3	NAD-SFC	NoSubs
7	1	27	27	5	-3.7	0.086	-9.000	-9.000	-999.	61.	15.2	0.0200	0.72	1.00	1.50	268.0	15.0	279.4	2.0	0	0.00	100.	1009.	3	NAD-SFC	NoSubs
7	1	27	27	6	-2.1	0.073	-9.000	-9.000	-999.	47.	16.5	0.0200	0.72	1.00	1.00	251.0	15.0	279.1	2.0	0	0.00	100.	1009.	3	NAD-SFC	NoSubs
7	1	27	27	7	-1.0	0.065	-9.000	-9.000	-999.	40.	25.9	0.0220	0.72	1.00	0.50	217.0	15.0	278.8	2.0	0	0.00	100.	1009.	3	NAD-SFC	NoSubs
7	1	27	27	8	-0.8	0.060	-9.000	-9.000	-999.	35.	24.3	0.0280	0.72	0.56	0.50	130.0	15.0	278.2	2.0	0	0.00	100.	1010.	3	NAD-SFC	NoSubs
7	1	27	27	9	24.6	0.059	0.444	0.011	128.	35.	-1.0	0.0280	0.72	0.32	0.50	121.0	15.0	278.5	2.0	0	0.00	100.	1010.	3	NAD-SFC	NoSubs
7	1	27	27	10	67.5	-9.000	-9.000	-9.000	201.	-999.	-99999.0	0.0471	0.72	0.24	0.00	0.0	15.0	279.2	2.0	0	0.00	98.	1010.	3	NAD-SFC	NoSubs
7	1	27	27	11	99.2	-9.000	-9.000	-9.000	332.	-999.	-99999.0	0.0471	0.72	0.21	0.00	0.0	15.0	282.2	2.0	0	0.00	81.	1009.	3	NAD-SFC	NoSubs
7	1	27	27	12	116.0	-9.000	-9.000	-9.000	460.	-999.	-99999.0	0.0471	0.72	0.20	0.00	0.0	15.0	285.0	2.0	0	0.00	66.	1009.	4	NAD-SFC	NoSubs
7	1	27	27	13	118.9	-9.000	-9.000	-9.000	578.	-999.	-99999.0	0.0471	0.72	0.20	0.00	0.0	15.0	286.5	2.0	0	0.00	60.	1008.	4	NAD-SFC	NoSubs
7	1	27	27	14	107.1	0.077	1.259	0.005	670.	51.	-1.0	0.0420	0.72	0.20	0.50	287.0	15.0	287.5	2.0	0	0.00	58.	1007.	4	NAD-SFC	NoSubs
7	1	27	27	15	81.2	0.129	1.192	0.005	748.	111.	-2.3	0.0800	0.72	0.22	1.00	324.0	15.0	287.9	2.0	0	0.00	57.	1007.	4	NAD-SFC	NoSubs
7	1	27	27	16	42.6	0.162	0.977	0.005	786.	156.	-8.9	0.0950	0.72	0.28	1.50	336.0	15.0	287.9	2.0	0	0.00	58.	1007.	4	NAD-SFC	NoSubs
7	1	27	27	17	-1.2	0.162	-9.000	-9.000	-999.	156.	324.5	0.0950	0.72	0.45	2.10	348.0	15.0	287.2	2.0	0	0.00	62.	1007.	5	NAD-SFC	NoSubs
7	1	27	27	18	-1.7	0.067	-9.000	-9.000	-999.	47.	15.6	0.0200	0.72	1.00	1.00	241.0	15.0	285.8	2.0	0	0.25	73.	1008.	7	NAD-SFC	NoSubs
7	1	27	27	19	-9.3	0.146	-9.000	-9.000	-999.	134.	30.3	0.0220	0.72	1.00	2.60	186.0	15.0	284.5	2.0	0	2.03	89.	1009.	8	NAD-SFC	NoSubs
7	1	27	27	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	284.1	2.0	0	2.03	95.	1009.	6	NAD-SFC	NoSubs
7	1	27	27	21	-2.3	0.078	-9.000	-9.000	-999.	52.	18.9	0.0800	0.72	1.00	1.00	328.0	15.0	283.9	2.0	0	1.02	96.	1009.	7	NAD-SFC	NoSubs
7	1	27	27	22	-3.9	0.107	-9.000	-9.000	-999.	84.	28.4	0.0950	0.72	1.00	1.50	331.0	15.0	283.9	2.0	0	0.51	97.	1009.	10	NAD-SFC	NoSubs
7	1	27	27	23	-1.7	0.071	-9.000	-9.000	-999.	46.	19.3	0.0800	0.72	1.00	1.00	316.0	15.0	283.8	2.0	0	0.00	97.	1010.	10	NAD-SFC	NoSubs
7	1	27	27	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	283.5	2.0	0	0.00	98.	1010.	8	NAD-SFC	NoSubs
7	1	28	28	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	283.0	2.0	0	0.00	100.	1010.	6	NAD-SFC	NoSubs
7	1	28	28	2	-0.9	0.064	-9.000	-9.000	-999.	39.	25.8	0.0400	0.72	1.00	0.50	60.0	15.0	281.5	2.0	0	0.00	100.	1010.	6	NAD-SFC	NoSubs
7	1	28	28	3	-4.6	0.100	-9.000	-9.000	-999.	76.	19.6	0.0650	0.72	1.00	1.50	47.0	15.0	281.2	2.0	0	0.00	100.	1010.	5	NAD-SFC	NoSubs
7	1	28	28	4	-9.0	0.139	-9.000	-9.000	-999.	125.	26.9	0.0650	0.72	1.00	2.10	54.0	15.0	281.4	2.0	0	0.00	100.	1011.	5	NAD-SFC	NoSubs
7	1	28	28	5	-7.9	0.127	-9.000	-9.000	-999.	109.	23.6	0.0400	0.72	1.00	2.10	72.0	15.0	281.0	2.0	0	0.00	100.	1011.	5	NAD-SFC	NoSubs
7	1	28	28	6	-4.1	0.093	-9.000	-9.000	-999.	68.	17.6	0.0400	0.72	1.00	1.50	67.0	15.0	280.6	2.0	0	0.00	100.	1011.	5	NAD-SFC	NoSubs
7	1	28	28	7	-1.1	0.070	-9.000	-9.000	-999.	45.	28.2	0.0650	0.72	1.00	0.50	36.0	15.0	280.4	2.0	0	0.00	100.	1011.	4	NAD-SFC	NoSubs
7	1	28	28	8	-0.9	0.065	-9.000	-9.000	-999.	40.	26.5	0.0960	0.72	0.56	0.50	19.0	15.0	280.1	2.0	0	0.00	100.	1011.	4	NAD-SFC	NoSubs
7	1	28	28	9	26.6	0.072	0.459	0.006	131.	47.	-1.3	0.0800	0.72	0.31	0.50	319.0	15.0	280.8	2.0	0	0.00	97.	1012.	4	NAD-SFC	NoSubs
7	1	28	28	10	68.8	0.112	0.819	0.005	288.	90.	-1.9	0.0420	0.72	0.23	1.00	294.0	15.0	281.5	2.0	0	0.00	94.	1012.	3	NAD-SFC	NoSubs
7	1	28	28	11	100.1	0.194	1.111	0.005	494.	205.	-6.6	0.0420	0.72	0.21	2.10	294.0	15.0	282.2	2.0	0	0.00	91.	1011.	3	NAD-SFC	NoSubs
7	1	28	28	12	117.6	0.230	1.316	0.005	699.	264.	-9.3	0.0420	0.72	0.20	2.60	296.0	15.0	283.2	2.0	0	0.00	86.	1010.	3	NAD-SFC	NoSubs
7	1	28	28	13	120.4	0.230	1.419	0.005	856.	265.	-9.1	0.0420	0.72	0.20	2.60	298.0	15.0	284.4	2.0	0	0.00	78.	1009.	3	NAD-SFC	NoSubs
7	1	28	28	14	108.6	0.218	1.433	0.005	977.	245.	-8.6	0.0800	0.72	0.20	2.10	325.0	15.0	286.1	2.0	0	0.00	67.	1009.	3	NAD-SFC	NoSubs
7	1	28	28	15	82.2	0.219	1.340	0.005	1052.	246.	-11.5	0.0950	0.72	0.22	2.10	341.0	15.0	286.9	2.0	0	0.00	62.	1008.	3	NAD-SFC	NoSubs
7	1	28	28	16	42.8	0.243	1.091	0.005	1089.	287.	-30.1	0.0950	0.72	0.28	2.60	352.0	15.0	287.0	2.0	0	0.00	62.	1007.	3	NAD-SFC	NoSubs
7	1	28	28	17	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	0.44	0.00	0.0	15.0	286.6	2.0	0	0.00	67.	1007.	3	NAD-SFC	NoSubs
7	1	28	28	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	286.1	2.0	0	0.51	69.	1008.	4	NAD-SFC	NoSubs
7	1	28	28	19	-5.3	0.108	-9.000	-9.000	-999.	85.	21.2	0.0950	0.72	1.00	1.50	348.0	15.0	285.6	2.0	0	0.51	71.	1008.	4	NAD-SFC	NoSubs
7	1	28	28	20	-2.6	0.082	-9.000	-9.000	-999.	56.	19.1	0.0800	0.72	1.00	1.00	310.0	15.0	284.9	2.0	0	0.25	73.	1008.	5	NAD-SFC	NoSubs
7	1	28	28	21	-2.6	0.082	-9.000	-9.000	-999.	56.	19.1	0.0800	0.72	1.00	1.00	307.0	15.0	284.2	2.0	0	0.00	76.	1009.	5	NAD-SFC	NoSubs
7	1	28	28	22	-4.7	0.104	-9.000	-9.000	-999.	80.	21.2	0.0800	0.72	1.00	1.50	301.0	15.0	283.8	2.0	0	0.00	77.	1009.	6	NAD-SFC	NoSubs
7	1	28	28	23	-9.0	0.146	-9.000	-9.000	-999.	134.	31.3	0.0800	0.72	1.00	2.10	308.0	15.0	283.8	2.0	0	0.00	78.	1010.	7	NAD-SFC	NoSubs
7	1	28	28	24	-9.0	0.146	-9.000	-9.000	-999.	134.	31.3	0.0800	0.72	1.00	2.10	318.0	15.0	283.5	2.0	0	0.00	78.	1009.	7	NAD-SFC	NoSubs
7	1	29	29	1	-12.0	0.162	-9.000	-9.000	-999.	157.	31.9	0.0420	0.72	1.00	2.60	287.0	15.0	283.2	2.0	0	0.00	80.	1009.	6	NAD-SFC	NoSubs
7	1	29	29	2	-21.2	0.230	-9.000	-9.000	-999.	264.	51.5	0.0420	0.72	1.00	3.60	292.0	15.0	282.6	2.0	0	0.00	82.	1010.	6	NAD-SFC	NoSubs
7	1	29	29	3	-20.5	0.222	-9.000	-9.000	-999.	250.	47.9	0.0800	0.72	1.00	3.10	305.0	15.0	282.2	2.0	0	0.00	84.	1010.	6	NAD-SFC	NoSubs
7	1	29	29	4	-21.6	0.221	-9.000	-9.000	-999.	250.	45.0	0.0800	0.72	1.00	3.10	301.0	15.0	281.8	2.0	0	0.00	84.	1010.	5	NAD-SFC	NoSubs
7	1	29	29	5	-17.9	0.195	-9.000	-9.000	-999.	207.	37.5	0.0420	0.72	1.00	3.10	298.0	15.0	281.4	2.0	0	0.00	83.	1010.	5	NAD-SFC	NoSubs
7	1	29	29	6	-18.3	0.195	-9.000	-9.000	-999.	207.	36.5	0.0420	0.72	1.00	3.10	294.0	15.0	281.2	2.0	0	0.00	82.	1011.	4	NAD-SFC	NoSubs
7	1	29	29	7	-18.4	0.195	-9.000	-9.000	-999.	207.	36.4	0.0420	0.72	1.00	3.10	293.0	15.0	280.8	2.0	0	0.00	81.	1011.	4	NAD-SFC	NoSubs
7	1	29	29	8	-13.4	0.185	-9.000	-9.000	-999.	191.	42.5	0.0800	0.72	0.55	2.60	304.0	15.0	280.8	2.0	0	0.00	79.	1011.	4	NAD-SFC	NoSubs
7	1	29	29	9	26.8	0.228	0.428	0.006	105.	261.	-39.7	0.0800	0.72	0.31	2.60	323.0	15.0	282.8	2.0	0	0.00	67.	1011.	3	NAD-SFC	NoSubs
7	1	29	29	10	70.3	0.209	0.758	0.007	223.	229.	-11.7	0.0800	0.72	0.23	2.10	309.0	15.0	284.4	2.0	0	0.00	62.	1010.	3	NAD-SFC	NoSubs
7	1	29	29	11	102.0	0.217	1.013	0.005	367.	242.	-9.0	0.0800	0.72	0.21	2.10	313.0	15.0	286.2	2.0	0	0.00	58.	1010.	3	NAD-SFC	NoSubs
7	1	29	29	12	119.7	0.220	1.223	0.005	550.	248.	-8.0	0.0800	0.72	0.20	2.10	320.0	15.0	287.8	2.0	0	0.00	54.	1008.	3	NAD-SFC	NoSubs
7	1	29	29	13	122.7	0.181	1.351	0.005	722.	186.	-4.4	0.0950	0.72	0.20	1.50	333.0	15.0	288.9	2.0	0	0.00	51.	1007.	3	NAD-SFC	NoSubs
7	1	29	29	14	110.7	0.179	1.397	0.005	886.	182.	-4.7	0.0950	0.72	0.20	1.50	331.0	15.0	289.6	2.0	0	0.00	50.	1007.	3	NAD-SFC	NoSubs
7	1	29	29	15	84.3	0.174	1.329	0.005	1000.	174.	-5.6	0.0950	0.72	0.22	1.50	345.0	15.0	289.9	2.0	0	0.00	50.	1006.	3	NAD-SFC	NoSubs
7	1	29	29	16	44.7	0.069	1.100	0.005	1068.	51.	-1.0	0.0420	0.72	0.27	0.50	294.0	15.0	289.8	2.0	0	0.00	53.	1005.	3	NAD-SFC	NoSubs
7	1	29	29	17	-0.6	0.063	-9.000	-9.000	-999.	38.	38.3	0.0420	0.72	0.44	1.00	280.0	15.0	289.2	2.0	0	0.00	56.	1005.	3	NAD-SFC	NoSubs
7	1	29	29	18	-0.9	0.063	-9.000	-9.000	-999.	38.	25.4	0.0200	0.72	1.00	0.50	267.0	15.0	288.8	2.0	0	0.00	59.	1006.	3	NAD-SFC	NoSubs
7	1	29	29	19	-1.0	0.068	-9.000	-9.000	-999.	42.	27.2	0.0420	0.72	1.00	0.50	273.0	15.0	288.1	2.0	0	0.00	62.	1006.	3	NAD-SFC	NoSubs
7	1	29	29	20	-1.0	0.068	-9.000	-9.000	-999.	42.	27.2	0.0420	0.72	1.00	0.50	287.0	15.0	287.8	2.0	0	0.00	65.	1006.	3	NAD-SFC	NoSubs

7	1	29	29	21	-1.0	0.068	-9.000	-9.000	-999.	42.	27.2	0.0420	0.72	1.00	0.50	289.0	15.0	287.2	2.0	0	0.00	67.	1006.	3	NAD-SFC	NoSubs
7	1	29	29	22	-1.0	0.068	-9.000	-9.000	-999.	42.	27.2	0.0420	0.72	1.00	0.50	272.0	15.0	287.0	2.0	0	0.00	69.	1006.	3	NAD-SFC	NoSubs
7	1	29	29	23	-4.3	0.094	-9.000	-9.000	-999.	70.	17.5	0.0420	0.72	1.00	1.50	274.0	15.0	286.8	2.0	0	0.00	71.	1007.	3	NAD-SFC	NoSubs
7	1	29	29	24	-8.2	0.128	-9.000	-9.000	-999.	110.	23.0	0.0420	0.72	1.00	2.10	278.0	15.0	286.2	2.0	0	0.00	73.	1007.	3	NAD-SFC	NoSubs
7	1	30	30	1	-8.2	0.128	-9.000	-9.000	-999.	110.	23.0	0.0420	0.72	1.00	2.10	295.0	15.0	285.9	2.0	0	0.00	76.	1007.	3	NAD-SFC	NoSubs
7	1	30	30	2	-9.9	0.145	-9.000	-9.000	-999.	132.	27.5	0.0800	0.72	1.00	2.10	302.0	15.0	285.6	2.0	0	0.00	77.	1007.	3	NAD-SFC	NoSubs
7	1	30	30	3	-8.2	0.128	-9.000	-9.000	-999.	110.	22.9	0.0420	0.72	1.00	2.10	297.0	15.0	285.2	2.0	0	0.00	77.	1007.	3	NAD-SFC	NoSubs
7	1	30	30	4	-9.9	0.145	-9.000	-9.000	-999.	132.	27.4	0.0800	0.72	1.00	2.10	303.0	15.0	284.9	2.0	0	0.00	77.	1007.	3	NAD-SFC	NoSubs
7	1	30	30	5	-8.2	0.128	-9.000	-9.000	-999.	110.	22.9	0.0420	0.72	1.00	2.10	290.0	15.0	284.6	2.0	0	0.00	77.	1007.	3	NAD-SFC	NoSubs
7	1	30	30	6	-8.2	0.128	-9.000	-9.000	-999.	110.	22.9	0.0420	0.72	1.00	2.10	288.0	15.0	284.2	2.0	0	0.00	76.	1007.	3	NAD-SFC	NoSubs
7	1	30	30	7	-5.1	0.105	-9.000	-9.000	-999.	81.	20.1	0.0800	0.72	1.00	1.50	302.0	15.0	283.9	2.0	0	0.00	76.	1007.	3	NAD-SFC	NoSubs
7	1	30	30	8	-0.9	0.065	-9.000	-9.000	-999.	40.	26.5	0.0950	0.72	0.55	0.50	335.0	15.0	283.6	2.0	0	0.00	76.	1008.	3	NAD-SFC	NoSubs
7	1	30	30	9	27.9	0.235	0.545	0.006	208.	274.	-42.1	0.0950	0.72	0.31	2.60	357.0	15.0	284.1	2.0	0	0.00	69.	1008.	3	NAD-SFC	NoSubs
7	1	30	30	10	71.3	0.253	0.874	0.005	337.	306.	-20.5	0.0960	0.72	0.23	2.60	2.0	15.0	285.0	2.0	0	0.00	61.	1008.	3	NAD-SFC	NoSubs
7	1	30	30	11	102.9	0.224	1.125	0.005	496.	255.	-9.8	0.0960	0.72	0.21	2.10	2.0	15.0	285.9	2.0	0	0.00	55.	1007.	3	NAD-SFC	NoSubs
7	1	30	30	12	120.4	0.227	1.298	0.005	652.	260.	-8.8	0.0950	0.72	0.20	2.10	349.0	15.0	286.4	2.0	0	0.00	53.	1006.	3	NAD-SFC	NoSubs
7	1	30	30	13	123.1	0.302	1.454	0.005	897.	398.	-20.0	0.0950	0.72	0.20	3.10	354.0	15.0	286.6	2.0	0	0.00	53.	1006.	3	NAD-SFC	NoSubs
7	1	30	30	14	110.8	0.372	1.495	0.005	1081.	544.	-41.5	0.0950	0.72	0.20	4.10	350.0	15.0	286.1	2.0	0	0.00	58.	1005.	3	NAD-SFC	NoSubs
7	1	30	30	15	83.8	0.365	1.411	0.005	1203.	530.	-52.1	0.0950	0.72	0.22	4.10	348.0	15.0	285.2	2.0	0	0.00	67.	1005.	4	NAD-SFC	NoSubs
7	1	30	30	16	44.1	0.280	1.162	0.005	1275.	360.	-44.6	0.0960	0.72	0.27	3.10	13.0	15.0	288.4	2.0	0	0.00	51.	1004.	2	NAD-SFC	NoSubs
7	1	30	30	17	-4.8	0.279	-9.000	-9.000	-999.	354.	401.8	0.0960	0.72	0.43	3.60	22.0	15.0	287.2	2.0	0	0.00	57.	1004.	2	NAD-SFC	NoSubs
7	1	30	30	18	-23.9	0.229	-9.000	-9.000	-999.	264.	45.0	0.0960	0.72	1.00	3.10	21.0	15.0	286.5	2.0	0	0.00	62.	1004.	2	NAD-SFC	NoSubs
7	1	30	30	19	-5.4	0.108	-9.000	-9.000	-999.	95.	21.0	0.0960	0.72	1.00	1.50	14.0	15.0	286.2	2.0	0	0.00	63.	1005.	3	NAD-SFC	NoSubs
7	1	30	30	20	-3.7	0.087	-9.000	-9.000	-999.	61.	15.5	0.0220	0.72	1.00	1.50	223.0	15.0	285.8	2.0	0	0.00	65.	1005.	3	NAD-SFC	NoSubs
7	1	30	30	21	-7.0	0.115	-9.000	-9.000	-999.	94.	19.6	0.0220	0.72	1.00	2.10	218.0	15.0	285.6	2.0	0	0.00	66.	1005.	3	NAD-SFC	NoSubs
7	1	30	30	22	-2.1	0.072	-9.000	-9.000	-999.	47.	16.4	0.0200	0.72	1.00	1.00	251.0	15.0	285.2	2.0	0	0.00	67.	1005.	3	NAD-SFC	NoSubs
7	1	30	30	23	-2.7	0.084	-9.000	-9.000	-999.	58.	19.4	0.0800	0.72	1.00	1.00	301.0	15.0	285.0	2.0	0	0.00	68.	1005.	3	NAD-SFC	NoSubs
7	1	30	30	24	-8.2	0.128	-9.000	-9.000	-999.	110.	22.9	0.0420	0.72	1.00	2.10	278.0	15.0	284.2	2.0	0	0.00	72.	1005.	3	NAD-SFC	NoSubs
7	1	31	31	1	-12.8	0.161	-9.000	-9.000	-999.	155.	29.2	0.0420	0.72	1.00	2.60	274.0	15.0	283.1	2.0	0	0.00	83.	1005.	3	NAD-SFC	NoSubs
7	1	31	31	2	-18.5	0.195	-9.000	-9.000	-999.	206.	35.8	0.0420	0.72	1.00	3.10	278.0	15.0	282.2	2.0	0	0.00	90.	1005.	3	NAD-SFC	NoSubs
7	1	31	31	3	-24.5	0.229	-9.000	-9.000	-999.	262.	43.6	0.0420	0.72	1.00	3.60	292.0	15.0	281.4	2.0	0	0.00	94.	1005.	3	NAD-SFC	NoSubs
7	1	31	31	4	-31.9	0.296	-9.000	-9.000	-999.	387.	73.0	0.0800	0.72	1.00	4.10	301.0	15.0	280.8	2.0	0	0.00	97.	1005.	3	NAD-SFC	NoSubs
7	1	31	31	5	-27.9	0.258	-9.000	-9.000	-999.	316.	55.4	0.0800	0.72	1.00	3.60	313.0	15.0	280.0	2.0	0	0.00	100.	1006.	3	NAD-SFC	NoSubs
7	1	31	31	6	-27.0	0.259	-9.000	-9.000	-999.	316.	57.5	0.0800	0.72	1.00	3.60	307.0	15.0	279.2	2.0	0	0.00	100.	1006.	4	NAD-SFC	NoSubs
7	1	31	31	7	-28.0	0.268	-9.000	-9.000	-999.	333.	61.7	0.0950	0.72	1.00	3.60	335.0	15.0	278.9	2.0	0	0.00	100.	1007.	4	NAD-SFC	NoSubs
7	1	31	31	8	-20.0	0.270	-9.000	-9.000	-999.	337.	88.5	0.0950	0.72	0.54	3.60	342.0	15.0	278.8	2.0	0	0.00	100.	1007.	4	NAD-SFC	NoSubs
7	1	31	31	9	28.6	0.200	0.515	0.008	171.	216.	-25.1	0.0950	0.72	0.31	2.10	346.0	15.0	278.5	2.0	0	0.00	100.	1008.	4	NAD-SFC	NoSubs
7	1	31	31	10	71.0	0.131	0.842	0.008	303.	115.	-2.8	0.0950	0.72	0.23	1.00	354.0	15.0	278.5	2.0	0	0.00	100.	1008.	4	NAD-SFC	NoSubs
7	1	31	31	11	101.8	-9.000	-9.000	-9.000	423.	-999.	-99999.0	0.0471	0.72	0.21	0.00	0.0	15.0	278.8	2.0	0	0.00	100.	1008.	4	NAD-SFC	NoSubs
7	1	31	31	12	119.0	0.078	1.218	0.005	545.	53.	-1.0	0.0420	0.72	0.20	0.50	296.0	15.0	279.9	2.0	0	0.00	92.	1007.	4	NAD-SFC	NoSubs
7	1	31	31	13	123.2	-9.000	-9.000	-9.000	651.	-999.	-99999.0	0.0471	0.72	0.20	0.00	0.0	15.0	282.6	2.0	0	0.00	76.	1006.	3	NAD-SFC	NoSubs
7	1	31	31	14	111.5	0.087	1.339	0.005	774.	62.	-1.0	0.0800	0.72	0.20	0.50	304.0	15.0	284.2	2.0	0	0.00	67.	1006.	3	NAD-SFC	NoSubs
7	1	31	31	15	85.2	0.129	1.268	0.005	859.	112.	-2.3	0.0800	0.72	0.22	1.00	319.0	15.0	285.1	2.0	0	0.00	61.	1005.	3	NAD-SFC	NoSubs
7	1	31	31	16	45.7	0.163	1.047	0.005	901.	158.	-8.5	0.0950	0.72	0.27	1.50	346.0	15.0	285.2	2.0	0	0.00	58.	1005.	3	NAD-SFC	NoSubs
7	1	31	31	17	-0.5	0.075	-9.000	-9.000	-999.	53.	78.6	0.0960	0.72	0.43	1.00	28.0	15.0	285.0	2.0	0	0.00	61.	1004.	3	NAD-SFC	NoSubs
7	1	31	31	18	-4.9	0.101	-9.000	-9.000	-999.	78.	19.0	0.0650	0.72	1.00	1.50	49.0	15.0	284.1	2.0	0	0.00	65.	1004.	2	NAD-SFC	NoSubs
7	1	31	31	19	-2.4	0.079	-9.000	-9.000	-999.	53.	17.9	0.0400	0.72	1.00	1.00	76.0	15.0	283.1	2.0	0	0.00	70.	1005.	2	NAD-SFC	NoSubs
7	1	31	31	20	-2.3	0.076	-9.000	-9.000	-999.	50.	17.3	0.0310	0.72	1.00	1.00	119.0	15.0	282.2	2.0	0	0.00	75.	1005.	3	NAD-SFC	NoSubs
7	1	31	31	21	-4.0	0.090	-9.000	-9.000	-999.	64.	16.1	0.0280	0.72	1.00	1.50	141.0	15.0	281.2	2.0	0	0.00	80.	1006.	3	NAD-SFC	NoSubs
7	1	31	31	22	-4.0	0.090	-9.000	-9.000	-999.	64.	16.1	0.0280	0.72	1.00	1.50	128.0	15.0	280.8	2.0	0	0.00	84.	1006.	3	NAD-SFC	NoSubs
7	1	31	31	23	-7.7	0.122	-9.000	-9.000	-999.	102.	21.0	0.0310	0.72	1.00	2.10	106.0	15.0	280.0	2.0	0	0.00	88.	1006.	3	NAD-SFC	NoSubs
7	1	31	31	24	-7.7	0.122	-9.000	-9.000	-999.	102.	21.0	0.0310	0.72	1.00	2.10	103.0	15.0	279.2	2.0	0	0.00	91.	1006.	3	NAD-SFC	NoSubs
7	2	1	32	1	-2.3	0.076	-9.000	-9.000	-999.	51.	17.4	0.0310	0.72	1.00	1.00	113.0	15.0	278.8	2.0	0	0.00	93.	1006.	3	NAD-SFC	NoSubs
7	2	1	32	2	-1.0	0.066	-9.000	-9.000	-999.	41.	26.5	0.0280	0.72	1.00	0.50	148.0	15.0	278.2	2.0	0	0.00	95.	1006.	3	NAD-SFC	NoSubs
7	2	1	32	3	-1.1	0.069	-9.000	-9.000	-999.	43.	27.5	0.0420	0.72	1.00	0.50	297.0	15.0	278.2	2.0	0	0.00	96.	1007.	3	NAD-SFC	NoSubs
7	2	1	32	4	-2.8	0.085	-9.000	-9.000	-999.	59.	19.5	0.0800	0.72	1.00	1.00	309.0	15.0	278.5	2.0	0	0.00	95.	1007.	3	NAD-SFC	NoSubs
7	2	1	32	5	-15.7	0.182	-9.000	-9.000	-999.	187.	34.7	0.0800	0.72	1.00	2.60	327.0	15.0	278.8	2.0	0	0.00	97.	1007.	3	NAD-SFC	NoSubs
7	2	1	32	6	-23.9	0.228	-9.000	-9.000	-999.	262.	44.8	0.0950	0.72	1.00	3.10	336.0	15.0	278.4	2.0	0	0.00	100.	1008.	3	NAD-SFC	NoSubs
7	2	1	32	7	-16.6	0.189	-9.000	-9.000	-999.	198.	36.6	0.0950	0.72	1.00	2.60	339.0	15.0	278.2	2.0	0	0.00	100.	1008.	3	NAD-SFC	NoSubs
7	2	1	32	8	-8.6	0.147	-9.000	-9.000	-999.	135.	32.9	0.0800	0.72	0.54	2.10	326.0	15.0	278.1	2.0	0	0.00	100.	1008.	3	NAD-SFC	NoSubs
7	2	1	32	9	28.4	0.151	0.493	0.006	151.	141.	-10.9	0.0800	0.72	0.31	1.50	320.0	15.0	278.2	2.0	0	0.00	99.	1008.	3	NAD-SFC	NoSubs
7	2	1	32	10	71.9	0.165	0.881	0.005	341.	161.	-5.7	0.0800	0.72	0.23	1.50	314.0	15.0	278.5	2.0	0	0.00	97.	1008.	3	NAD-SFC	NoSubs
7	2	1	32	11	102.7	0.118	1.132	0.005	508.	97.	-1.4	0.0420	0.72	0.21	1.00	296.0	15.0	279.0	2.0	0	0.00	94.	1008.	2	NAD-SFC	NoSubs
7	2	1	32	12	120.4	0.120	1.299	0.005	654.	100.	-1.3	0.0420	0.72	0.20	1.00	276.0	15.0	279.8	2.0	0	0.00	90.	1007.	2	NAD-SFC	NoSubs
7	2	1	32	13	123.3	0.121	1.507	0.012	999.	100.	-1.3	0.0420	0.72	0.20	1.00	284.0	15.0	280.5	2.0	0	0.00	85.	1007.	2	NAD-SFC	NoSubs
7	2	1	32	14	111.2	-9.000	-9.000	-9.000	1031.	-999.	-99999.0	0.0471	0.72	0.20	0.00	0.0	15.0	281.2	2.0	0	0.00	80.	1007.	2	NAD-SFC	NoSubs
7	2	1	32	15	84.7	0.124	1.355	0.011	1055.	105.	-2.0	0.0650	0.72	0.22	1.00	46.0	15.0	282.1	2.0	0	0.00	76.	1006.	2	NAD-SFC	NoSubs
7	2	1	32	16	44.8	0.152	1.100	0.011	1067.	143.	-7.1	0.0650	0.72	0.27	1.50	56.0	15.0	282.2	2.0	0	0.00	75.	1006.	2	NAD-SFC	NoSubs
7	2	1	32	17	-2.4	0.169	-9.000	-9.000	-999.	166.	176.7	0.0400	0.72	0.42	2.60	68.0	15.0	281.8	2.0	0	0.00	79.	1006.	2	NAD-SFC	NoSubs
7	2	1	32	18	-12.9	0.159	-9.000	-9.000	-999.	153.	28.2	0.0400	0.72	1.00	2.60	72.0	15.0	281.0	2.0	0	0.00	82.	1007.	2	NAD-SFC	NoSubs
7	2	1	32	19	-4.4	0.094	-9.000	-9.000	-999.	71.	17.2	0.0400	0.72	1.00	1.50	66.0	15.0	280.2	2.0	0	0.00	85.	1007.	2	NAD-SFC	NoSubs
7	2	1	32	20	-2.7	0.083	-9.000	-9.000	-999.	58.	19.0	0.0650	0.72	1.00	1.00	59.0	15.0	279.5	2.0	0	0.00	89.	1008.	2	NAD-SFC	NoSubs
7	2	1	32	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	278.9	2.0	0	0.00	93.	1008.	2	NAD-SFC	NoSubs
7	2	1	32	22	-1.3	0.075	-9.000	-9.000	-999.	50.	29.9	0.0960	0.72	1.00	0.50	22.0	15.0	278.2	2.0	0	0.00	97.	1008.	2	NAD-SFC	NoSubs
7	2	1	32	23	-3.0	0.087	-9.000	-9.000	-999.	62.	20.0	0.0960	0.72	1.00	1.00	21.0	15.0	277.4	2.0	0	0.00	100.	1009.	2	NAD-SFC	NoSubs
7	2	1	32	24	-3.0	0.088	-9.000	-9.000	-999.	62.	20.1	0.0960	0.72	1.00	1.00	22.0	15.0	275.4	2.0	0	0.00	100.	1009.	2	NAD-SFC	NoSubs
7	2	2	33	1	-2.8	0.084	-9.000	-9.000	-999.	58.	19.1	0.0650	0.72	1.00	1.00	32.0	15.0	275.1	2.0	0	0.00	100.	1009.	2	NAD-SFC	NoSubs

7	2	2	33	2	-1.2	0.073	-9.000	-9.000	-999.	47.	29.0	0.0650	0.72	1.00	0.50	55.0	15.0	275.5	2.0	0	0.00	100.	1009.	2	NAD-SFC	NoSubs
7	2	2	33	3	-1.2	0.073	-9.000	-9.000	-999.	47.	29.0	0.0650	0.72	1.00	0.50	53.0	15.0	275.8	2.0	0	0.00	100.	1010.	2	NAD-SFC	NoSubs
7	2	2	33	4	-1.3	0.076	-9.000	-9.000	-999.	50.	30.0	0.0950	0.72	1.00	0.50	355.0	15.0	276.2	2.0	0	0.00	100.	1010.	2	NAD-SFC	NoSubs
7	2	2	33	5	-5.3	0.105	-9.000	-9.000	-999.	82.	19.8	0.0800	0.72	1.00	1.50	329.0	15.0	276.1	2.0	0	0.00	100.	1011.	2	NAD-SFC	NoSubs
7	2	2	33	6	-5.3	0.105	-9.000	-9.000	-999.	82.	19.8	0.0800	0.72	1.00	1.50	323.0	15.0	275.8	2.0	0	0.00	100.	1011.	2	NAD-SFC	NoSubs
7	2	2	33	7	-10.3	0.145	-9.000	-9.000	-999.	132.	26.5	0.0800	0.72	1.00	2.10	316.0	15.0	275.4	2.0	0	0.00	100.	1012.	2	NAD-SFC	NoSubs
7	2	2	33	8	-13.8	0.184	-9.000	-9.000	-999.	190.	41.0	0.0800	0.72	0.53	2.60	306.0	15.0	275.5	2.0	0	0.00	100.	1012.	2	NAD-SFC	NoSubs
7	2	2	33	9	27.5	0.228	0.443	0.012	114.	262.	-39.0	0.0800	0.72	0.30	2.60	325.0	15.0	275.8	2.0	0	0.00	100.	1013.	2	NAD-SFC	NoSubs
7	2	2	33	10	71.5	0.165	0.702	0.014	175.	162.	-5.7	0.0800	0.72	0.23	1.50	326.0	15.0	276.0	2.0	0	0.00	100.	1013.	2	NAD-SFC	NoSubs
7	2	2	33	11	103.4	0.136	0.923	0.012	274.	121.	-2.2	0.0950	0.72	0.20	1.00	331.0	15.0	276.2	2.0	0	0.00	100.	1013.	2	NAD-SFC	NoSubs
7	2	2	33	12	121.1	0.135	1.087	0.012	383.	118.	-1.8	0.0800	0.72	0.20	1.00	326.0	15.0	276.6	2.0	0	0.00	100.	1012.	2	NAD-SFC	NoSubs
7	2	2	33	13	123.9	0.139	1.174	0.011	471.	125.	-2.0	0.0950	0.72	0.19	1.00	353.0	15.0	277.2	2.0	0	0.00	98.	1012.	2	NAD-SFC	NoSubs
7	2	2	33	14	112.0	0.138	1.189	0.010	541.	123.	-2.1	0.0960	0.72	0.20	1.00	6.0	15.0	279.0	2.0	0	0.00	88.	1011.	2	NAD-SFC	NoSubs
7	2	2	33	15	85.7	0.134	1.120	0.010	590.	117.	-2.5	0.0960	0.72	0.22	1.00	12.0	15.0	281.1	2.0	0	0.00	77.	1010.	2	NAD-SFC	NoSubs
7	2	2	33	16	45.9	0.163	0.922	0.009	615.	159.	-8.6	0.0960	0.72	0.27	1.50	10.0	15.0	281.9	2.0	0	0.00	73.	1010.	2	NAD-SFC	NoSubs
7	2	2	33	17	-0.7	0.074	-9.000	-9.000	-999.	52.	50.7	0.0960	0.72	0.41	1.00	18.0	15.0	281.6	2.0	0	0.00	75.	1010.	2	NAD-SFC	NoSubs
7	2	2	33	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	280.8	2.0	0	0.00	80.	1011.	2	NAD-SFC	NoSubs
7	2	2	33	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	279.8	2.0	0	0.00	85.	1012.	2	NAD-SFC	NoSubs
7	2	2	33	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	278.9	2.0	0	0.00	90.	1012.	2	NAD-SFC	NoSubs
7	2	2	33	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	278.2	2.0	0	0.00	95.	1012.	2	NAD-SFC	NoSubs
7	2	2	33	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	277.6	2.0	0	0.00	99.	1013.	2	NAD-SFC	NoSubs
7	2	2	33	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	275.8	2.0	0	0.00	100.	1013.	2	NAD-SFC	NoSubs
7	2	2	33	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	274.0	2.0	0	0.00	100.	1013.	2	NAD-SFC	NoSubs
7	2	3	34	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	273.6	2.0	0	0.00	100.	1014.	2	NAD-SFC	NoSubs
7	2	3	34	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	273.5	2.0	0	0.00	100.	1014.	2	NAD-SFC	NoSubs
7	2	3	34	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	273.8	2.0	0	0.00	100.	1014.	2	NAD-SFC	NoSubs
7	2	3	34	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	273.6	2.0	0	0.00	100.	1014.	2	NAD-SFC	NoSubs
7	2	3	34	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	273.6	2.0	0	0.00	100.	1015.	2	NAD-SFC	NoSubs
7	2	3	34	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	273.6	2.0	0	0.00	100.	1015.	2	NAD-SFC	NoSubs
7	2	3	34	7	-1.0	0.068	-9.000	-9.000	-999.	42.	26.9	0.0280	0.72	1.00	0.50	140.0	15.0	273.6	2.0	0	0.00	100.	1016.	2	NAD-SFC	NoSubs
7	2	3	34	8	13.7	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	0.53	0.00	0.0	15.0	274.0	2.0	0	0.00	100.	1016.	2	NAD-SFC	NoSubs
7	2	3	34	9	28.4	-9.000	-9.000	-9.000	65.	-999.	-99999.0	0.0471	0.72	0.30	0.00	0.0	15.0	275.5	2.0	0	0.00	98.	1016.	2	NAD-SFC	NoSubs
7	2	3	34	10	73.0	0.082	0.636	0.016	128.	57.	-1.0	0.0800	0.72	0.23	0.50	323.0	15.0	279.9	2.0	0	0.00	76.	1016.	2	NAD-SFC	NoSubs
7	2	3	34	11	105.5	0.137	0.882	0.014	236.	121.	-2.2	0.0950	0.72	0.20	1.00	335.0	15.0	282.6	2.0	0	0.00	65.	1016.	2	NAD-SFC	NoSubs
7	2	3	34	12	123.6	0.181	1.046	0.012	335.	185.	-4.4	0.0950	0.72	0.20	1.50	330.0	15.0	284.6	2.0	0	0.00	58.	1015.	2	NAD-SFC	NoSubs
7	2	3	34	13	126.9	0.182	1.143	0.011	426.	186.	-4.3	0.0950	0.72	0.19	1.50	338.0	15.0	286.5	2.0	0	0.00	49.	1014.	2	NAD-SFC	NoSubs
7	2	3	34	14	115.2	0.226	1.176	0.011	512.	258.	-9.1	0.0950	0.72	0.20	2.10	338.0	15.0	287.8	2.0	0	0.00	43.	1014.	2	NAD-SFC	NoSubs
7	2	3	34	15	88.5	0.257	1.117	0.011	569.	313.	-17.4	0.0950	0.72	0.22	2.60	352.0	15.0	287.9	2.0	0	0.00	43.	1013.	2	NAD-SFC	NoSubs
7	2	3	34	16	48.3	0.245	0.927	0.011	596.	291.	-27.5	0.0950	0.72	0.26	2.60	347.0	15.0	287.2	2.0	0	0.00	49.	1013.	2	NAD-SFC	NoSubs
7	2	3	34	17	0.2	0.167	0.140	0.011	595.	165.	-2512.0	0.0950	0.72	0.41	2.10	347.0	15.0	286.2	2.0	0	0.00	53.	1012.	2	NAD-SFC	NoSubs
7	2	3	34	18	-2.9	0.087	-9.000	-9.000	-999.	64.	19.9	0.0950	0.72	1.00	1.00	355.0	15.0	285.2	2.0	0	0.00	58.	1013.	2	NAD-SFC	NoSubs
7	2	3	34	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	284.0	2.0	0	0.00	64.	1013.	2	NAD-SFC	NoSubs
7	2	3	34	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	283.1	2.0	0	0.00	68.	1013.	2	NAD-SFC	NoSubs
7	2	3	34	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	282.8	2.0	0	0.00	71.	1014.	2	NAD-SFC	NoSubs
7	2	3	34	22	-1.3	0.075	-9.000	-9.000	-999.	49.	29.8	0.0960	0.72	1.00	0.50	18.0	15.0	282.1	2.0	0	0.00	73.	1014.	2	NAD-SFC	NoSubs
7	2	3	34	23	-1.3	0.075	-9.000	-9.000	-999.	49.	29.8	0.0960	0.72	1.00	0.50	23.0	15.0	281.5	2.0	0	0.00	75.	1014.	2	NAD-SFC	NoSubs
7	2	3	34	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	280.9	2.0	0	0.00	78.	1014.	2	NAD-SFC	NoSubs
7	2	4	35	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	280.2	2.0	0	0.00	80.	1014.	2	NAD-SFC	NoSubs
7	2	4	35	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	279.6	2.0	0	0.00	83.	1013.	2	NAD-SFC	NoSubs
7	2	4	35	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	279.1	2.0	0	0.00	84.	1013.	2	NAD-SFC	NoSubs
7	2	4	35	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	278.8	2.0	0	0.00	85.	1013.	2	NAD-SFC	NoSubs
7	2	4	35	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	278.4	2.0	0	0.00	85.	1013.	2	NAD-SFC	NoSubs
7	2	4	35	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	278.1	2.0	0	0.00	85.	1013.	2	NAD-SFC	NoSubs
7	2	4	35	7	-1.1	0.069	-9.000	-9.000	-999.	44.	27.6	0.0400	0.72	1.00	0.50	77.0	15.0	277.9	2.0	0	0.00	85.	1013.	2	NAD-SFC	NoSubs
7	2	4	35	8	-0.8	0.059	-9.000	-9.000	-999.	34.	24.2	0.0400	0.72	0.52	0.50	79.0	15.0	278.1	2.0	0	0.00	83.	1013.	2	NAD-SFC	NoSubs
7	2	4	35	9	30.1	-9.000	-9.000	-9.000	66.	-999.	-99999.0	0.0471	0.72	0.30	0.00	0.0	15.0	281.0	2.0	0	0.00	69.	1013.	2	NAD-SFC	NoSubs
7	2	4	35	10	75.1	0.127	0.695	0.017	161.	109.	-2.5	0.0800	0.72	0.23	1.00	306.0	15.0	284.9	2.0	0	0.00	49.	1013.	2	NAD-SFC	NoSubs
7	2	4	35	11	107.7	0.137	0.918	0.014	260.	122.	-2.2	0.0950	0.72	0.20	1.00	335.0	15.0	287.0	2.0	0	0.00	45.	1013.	2	NAD-SFC	NoSubs
7	2	4	35	12	125.9	0.140	1.066	0.013	347.	125.	-2.0	0.0950	0.72	0.20	1.00	343.0	15.0	288.8	2.0	0	0.00	42.	1012.	2	NAD-SFC	NoSubs
7	2	4	35	13	129.2	0.140	1.157	0.011	432.	126.	-1.9	0.0950	0.72	0.19	1.00	343.0	15.0	290.1	2.0	0	0.00	42.	1011.	2	NAD-SFC	NoSubs
7	2	4	35	14	117.4	0.180	1.186	0.011	512.	184.	-4.5	0.0950	0.72	0.20	1.50	347.0	15.0	291.0	2.0	0	0.00	42.	1010.	2	NAD-SFC	NoSubs
7	2	4	35	15	90.9	0.221	1.125	0.010	565.	249.	-10.7	0.0950	0.72	0.22	2.10	355.0	15.0	291.4	2.0	0	0.00	43.	1010.	2	NAD-SFC	NoSubs
7	2	4	35	16	51.8	0.210	0.951	0.010	597.	231.	-16.0	0.0950	0.72	0.26	2.10	352.0	15.0	293.9	2.0	0	0.00	42.	1009.	2	NAD-SFC	NoSubs
7	2	4	35	17	3.4	0.176	0.385	0.010	598.	178.	-143.6	0.0950	0.72	0.40	2.10	346.0	15.0	293.1	2.0	0	0.00	45.	1009.	2	NAD-SFC	NoSubs
7	2	4	35	18	-5.4	0.108	-9.000	-9.000	-999.	86.	20.9	0.0950	0.72	1.00	1.50	352.0	15.0	291.9	2.0	0	0.00	49.	1009.	2	NAD-SFC	NoSubs
7	2	4	35	19	-1.1	0.071	-9.000	-9.000	-999.	46.	28.4	0.0650	0.72	1.00	0.50	45.0	15.0	290.6	2.0	0	0.00	55.	1009.	2	NAD-SFC	NoSubs
7	2	4	35	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	289.5	2.0	0	0.00	61.	1009.	2	NAD-SFC	NoSubs
7	2	4	35	21	-1.3	0.074	-9.000	-9.000	-999.	49.	29.5	0.0960	0.72	1.00	0.50	16.0	15.0	288.6	2.0	0	0.00	65.	1009.	2	NAD-SFC	NoSubs
7	2	4	35	22	-2.9	0.086	-9.000	-9.000	-999.	61.	19.9	0.0960	0.72	1.00	1.00	24.0	15.0	288.1	2.0	0	0.00	68.	1010.	2	NAD-SFC	NoSubs
7	2	4	35	23	-10.7	0.150	-9.000	-9.000	-999.	140.	28.7	0.0960	0.72	1.00	2.10	22.0	15.0	287.5	2.0	0	0.00	70.	1010.	2	NAD-SFC	NoSubs
7	2	4	35	24	-10.7	0.150	-9.000	-9.000	-999.	140.	28.7	0.0960	0.72	1.00	2.10	18.0	15.0	287.2	2.0	0	0.00	71.	1009.	2	NAD-SFC	NoSubs
7	2	5	36	1	-10.7	0.150	-9.000	-9.000	-999.	140.	28.7	0.0960	0.72	1.00	2.10	6.0	15.0	286.9	2.0	0	0.00	71.	1009.	2	NAD-SFC	NoSubs
7	2	5	36	2	-5.5	0.108	-9.000	-9.000	-999.	86.	20.9	0.0960	0.72	1.00	1.50	9.0	15.0	286.6	2.0	0	0.00	72.	1009.	2	NAD-SFC	NoSubs
7	2	5	36	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	286.1	2.0	0	0.00	73.	1009.	2	NAD-SFC	NoSubs
7	2	5	36	4	-1.3	0.075	-9.000	-9.000	-999.	49.	29.6	0.0960	0.72	1.00	0.50	12.0	15.0	285.8	2.0	0	0.00	73.	1009.	2	NAD-SFC	NoSubs
7	2	5	36	5	-2.9	0.087	-9.000	-9.000	-999.	61.	20.0	0.0960	0.72	1.00	1.00	19.0	15.0	285.4	2.0	0	0.00	73.	1009.	2	NAD-SFC	NoSubs
7	2	5	36	6	-2.9	0.087	-9.000	-9.000	-999.	61.	20.0	0.0960	0.72	1.00	1.00	16.0	15.0	285.1	2.0	0	0.00	72.	1010.	2	NAD-SFC	NoSubs

7	2	5	36	7	-2.9	0.087	-9.000	-9.000	-999.	61.	20.0	0.0960	0.72	1.00	1.00	29.0	15.0	284.9	2.0	0	0.00	71.	1010.	2	NAD-SFC NoSubs
7	2	5	36	8	-2.1	0.077	-9.000	-9.000	-999.	51.	19.4	0.0960	0.72	0.51	1.00	28.0	15.0	284.8	2.0	0	0.00	69.	1010.	2	NAD-SFC NoSubs
7	2	5	36	9	32.1	0.119	0.414	0.015	80.	99.	-4.7	0.0950	0.72	0.30	1.00	350.0	15.0	285.6	2.0	0	0.00	64.	1010.	2	NAD-SFC NoSubs
7	2	5	36	10	77.0	0.211	0.715	0.011	171.	233.	-11.0	0.0800	0.72	0.23	2.10	325.0	15.0	288.1	2.0	0	0.00	50.	1010.	2	NAD-SFC NoSubs
7	2	5	36	11	109.5	0.173	0.960	0.010	291.	173.	-4.3	0.0800	0.72	0.20	1.50	312.0	15.0	289.2	2.0	0	0.00	49.	1010.	2	NAD-SFC NoSubs
7	2	5	36	12	127.7	0.222	1.133	0.009	410.	251.	-7.7	0.0800	0.72	0.19	2.10	322.0	15.0	290.8	2.0	0	0.00	47.	1009.	2	NAD-SFC NoSubs
7	2	5	36	13	131.0	0.266	1.239	0.009	523.	330.	-13.0	0.0950	0.72	0.19	2.60	345.0	15.0	291.8	2.0	0	0.00	46.	1009.	2	NAD-SFC NoSubs
7	2	5	36	14	119.1	0.301	1.262	0.008	609.	396.	-20.6	0.0950	0.72	0.20	3.10	346.0	15.0	292.2	2.0	0	0.00	46.	1009.	2	NAD-SFC NoSubs
7	2	5	36	15	92.2	0.296	1.196	0.007	668.	386.	-25.2	0.0960	0.72	0.21	3.10	14.0	15.0	291.9	2.0	0	0.00	54.	1009.	2	NAD-SFC NoSubs
7	2	5	36	16	51.9	0.319	1.005	0.007	704.	433.	-56.5	0.0960	0.72	0.26	3.60	25.0	15.0	291.2	2.0	0	0.00	59.	1009.	2	NAD-SFC NoSubs
7	2	5	36	17	3.4	0.290	0.406	0.007	705.	375.	-641.1	0.0960	0.72	0.40	3.60	23.0	15.0	290.5	2.0	0	0.00	62.	1009.	2	NAD-SFC NoSubs
7	2	5	36	18	-14.6	0.175	-9.000	-9.000	-999.	182.	32.9	0.0650	0.72	1.00	2.60	37.0	15.0	290.0	2.0	0	0.00	62.	1009.	2	NAD-SFC NoSubs
7	2	5	36	19	-4.9	0.101	-9.000	-9.000	-999.	79.	19.1	0.0650	0.72	1.00	1.50	35.0	15.0	289.5	2.0	0	0.00	63.	1009.	2	NAD-SFC NoSubs
7	2	5	36	20	-2.9	0.086	-9.000	-9.000	-999.	61.	19.9	0.0960	0.72	1.00	1.00	2.0	15.0	289.0	2.0	0	0.00	65.	1009.	2	NAD-SFC NoSubs
7	2	5	36	21	-5.2	0.105	-9.000	-9.000	-999.	82.	20.0	0.0800	0.72	1.00	1.50	319.0	15.0	288.2	2.0	0	0.00	68.	1009.	2	NAD-SFC NoSubs
7	2	5	36	22	-15.7	0.182	-9.000	-9.000	-999.	187.	34.8	0.0800	0.72	1.00	2.60	312.0	15.0	287.8	2.0	0	0.00	70.	1010.	2	NAD-SFC NoSubs
7	2	5	36	23	-22.6	0.220	-9.000	-9.000	-999.	248.	42.7	0.0800	0.72	1.00	3.10	314.0	15.0	287.2	2.0	0	0.00	71.	1010.	2	NAD-SFC NoSubs
7	2	5	36	24	-22.6	0.220	-9.000	-9.000	-999.	248.	42.6	0.0800	0.72	1.00	3.10	307.0	15.0	286.8	2.0	0	0.00	70.	1010.	2	NAD-SFC NoSubs
7	2	6	37	1	-15.7	0.182	-9.000	-9.000	-999.	187.	34.7	0.0800	0.72	1.00	2.60	318.0	15.0	286.4	2.0	0	0.00	69.	1010.	2	NAD-SFC NoSubs
7	2	6	37	2	-10.1	0.145	-9.000	-9.000	-999.	132.	27.1	0.0800	0.72	1.00	2.10	313.0	15.0	285.9	2.0	0	0.00	69.	1010.	2	NAD-SFC NoSubs
7	2	6	37	3	-2.8	0.085	-9.000	-9.000	-999.	60.	19.5	0.0800	0.72	1.00	1.00	310.0	15.0	285.6	2.0	0	0.00	70.	1010.	2	NAD-SFC NoSubs
7	2	6	37	4	-1.2	0.073	-9.000	-9.000	-999.	48.	29.2	0.0800	0.72	1.00	0.50	316.0	15.0	285.2	2.0	0	0.00	71.	1010.	2	NAD-SFC NoSubs
7	2	6	37	5	-1.3	0.075	-9.000	-9.000	-999.	49.	29.6	0.0950	0.72	1.00	0.50	338.0	15.0	284.9	2.0	0	0.00	72.	1009.	2	NAD-SFC NoSubs
7	2	6	37	6	-1.3	0.075	-9.000	-9.000	-999.	49.	29.6	0.0950	0.72	1.00	0.50	337.0	15.0	284.6	2.0	0	0.00	74.	1009.	2	NAD-SFC NoSubs
7	2	6	37	7	-1.3	0.075	-9.000	-9.000	-999.	49.	29.6	0.0950	0.72	1.00	0.50	344.0	15.0	284.4	2.0	0	0.00	76.	1009.	2	NAD-SFC NoSubs
7	2	6	37	8	-0.8	0.061	-9.000	-9.000	-999.	36.	25.3	0.0950	0.72	0.51	0.50	339.0	15.0	284.2	2.0	0	0.00	76.	1010.	2	NAD-SFC NoSubs
7	2	6	37	9	32.8	0.077	0.467	0.012	111.	51.	-1.2	0.0950	0.72	0.29	0.50	344.0	15.0	284.6	2.0	0	0.00	75.	1010.	2	NAD-SFC NoSubs
7	2	6	37	10	77.6	0.211	0.768	0.009	210.	233.	-10.9	0.0800	0.72	0.23	2.10	328.0	15.0	286.2	2.0	0	0.00	65.	1009.	2	NAD-SFC NoSubs
7	2	6	37	11	110.1	0.173	1.017	0.007	344.	174.	-4.3	0.0800	0.72	0.20	1.50	318.0	15.0	287.5	2.0	0	0.00	62.	1009.	2	NAD-SFC NoSubs
7	2	6	37	12	128.2	0.176	1.205	0.006	492.	178.	-3.9	0.0800	0.72	0.19	1.50	316.0	15.0	288.8	2.0	0	0.00	57.	1009.	2	NAD-SFC NoSubs
7	2	6	37	13	131.4	0.177	1.318	0.006	627.	179.	-3.8	0.0800	0.72	0.19	1.50	324.0	15.0	289.5	2.0	0	0.00	56.	1008.	2	NAD-SFC NoSubs
7	2	6	37	14	119.4	0.175	1.357	0.006	753.	176.	-4.0	0.0800	0.72	0.20	1.50	329.0	15.0	289.8	2.0	0	0.00	56.	1007.	2	NAD-SFC NoSubs
7	2	6	37	15	92.7	0.176	1.296	0.006	844.	177.	-5.2	0.0950	0.72	0.21	1.50	345.0	15.0	289.9	2.0	0	0.00	57.	1007.	2	NAD-SFC NoSubs
7	2	6	37	16	52.6	0.165	1.093	0.007	891.	161.	-7.7	0.0950	0.72	0.26	1.50	352.0	15.0	289.8	2.0	0	0.00	60.	1007.	2	NAD-SFC NoSubs
7	2	6	37	17	3.9	-9.000	-9.000	-9.000	893.	-999.	-99999.0	0.0471	0.72	0.40	0.00	0.0	15.0	289.1	2.0	0	0.00	63.	1006.	2	NAD-SFC NoSubs
7	2	6	37	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	288.4	2.0	0	0.00	67.	1007.	2	NAD-SFC NoSubs
7	2	6	37	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	287.8	2.0	0	0.00	71.	1007.	2	NAD-SFC NoSubs
7	2	6	37	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	287.2	2.0	0	0.00	74.	1007.	2	NAD-SFC NoSubs
7	2	6	37	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	287.0	2.0	0	0.00	75.	1007.	2	NAD-SFC NoSubs
7	2	6	37	22	-1.2	0.073	-9.000	-9.000	-999.	47.	29.1	0.0800	0.72	1.00	0.50	302.0	15.0	287.0	2.0	0	0.00	74.	1007.	2	NAD-SFC NoSubs
7	2	6	37	23	-1.2	0.073	-9.000	-9.000	-999.	47.	29.1	0.0800	0.72	1.00	0.50	327.0	15.0	287.0	2.0	0	0.00	73.	1007.	2	NAD-SFC NoSubs
7	2	6	37	24	-2.9	0.086	-9.000	-9.000	-999.	61.	19.9	0.0950	0.72	1.00	1.00	357.0	15.0	286.9	2.0	0	0.00	73.	1007.	2	NAD-SFC NoSubs
7	2	7	38	1	-2.9	0.087	-9.000	-9.000	-999.	61.	19.9	0.0960	0.72	1.00	1.00	8.0	15.0	286.8	2.0	0	0.00	74.	1007.	2	NAD-SFC NoSubs
7	2	7	38	2	-2.9	0.087	-9.000	-9.000	-999.	61.	19.9	0.0960	0.72	1.00	1.00	25.0	15.0	286.8	2.0	0	0.00	74.	1008.	2	NAD-SFC NoSubs
7	2	7	38	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	286.8	2.0	0	0.00	73.	1008.	2	NAD-SFC NoSubs
7	2	7	38	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	286.8	2.0	0	0.00	73.	1008.	3	NAD-SFC NoSubs
7	2	7	38	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	286.5	2.0	0	0.00	74.	1008.	3	NAD-SFC NoSubs
7	2	7	38	6	-1.2	0.074	-9.000	-9.000	-999.	48.	29.3	0.0950	0.72	1.00	0.50	360.0	15.0	286.2	2.0	0	0.00	76.	1008.	3	NAD-SFC NoSubs
7	2	7	38	7	-1.2	0.073	-9.000	-9.000	-999.	47.	28.9	0.0950	0.72	1.00	0.50	352.0	15.0	286.1	2.0	0	0.00	78.	1008.	4	NAD-SFC NoSubs
7	2	7	38	8	-0.6	0.055	-9.000	-9.000	-999.	31.	23.3	0.0950	0.72	0.50	0.50	354.0	15.0	286.1	2.0	0	0.00	80.	1008.	4	NAD-SFC NoSubs
7	2	7	38	9	36.2	0.066	0.595	0.006	209.	41.	-1.0	0.0400	0.72	0.29	0.50	84.0	15.0	286.2	2.0	0	0.00	82.	1008.	5	NAD-SFC NoSubs
7	2	7	38	10	78.0	-9.000	-9.000	-9.000	340.	-999.	-99999.0	0.0471	0.72	0.22	0.00	0.0	15.0	287.5	2.0	0	0.00	79.	1008.	5	NAD-SFC NoSubs
7	2	7	38	11	108.2	-9.000	-9.000	-9.000	518.	-999.	-99999.0	0.0471	0.72	0.20	0.00	0.0	15.0	288.4	2.0	0	0.00	75.	1008.	5	NAD-SFC NoSubs
7	2	7	38	12	128.9	-9.000	-9.000	-9.000	702.	-999.	-99999.0	0.0471	0.72	0.19	0.00	0.0	15.0	289.1	2.0	0	0.00	72.	1008.	4	NAD-SFC NoSubs
7	2	7	38	13	131.9	-9.000	-9.000	-9.000	865.	-999.	-99999.0	0.0471	0.72	0.19	0.00	0.0	15.0	289.6	2.0	0	0.00	69.	1007.	4	NAD-SFC NoSubs
7	2	7	38	14	121.3	0.088	1.495	0.005	991.	63.	-1.0	0.0800	0.72	0.20	0.50	300.0	15.0	289.9	2.0	0	0.00	68.	1007.	3	NAD-SFC NoSubs
7	2	7	38	15	94.9	0.089	1.416	0.005	1076.	63.	-1.0	0.0960	0.72	0.21	0.50	1.0	15.0	290.1	2.0	0	0.00	69.	1007.	3	NAD-SFC NoSubs
7	2	7	38	16	53.8	0.143	1.189	0.005	1121.	130.	-4.9	0.0400	0.72	0.26	1.50	71.0	15.0	289.9	2.0	0	0.00	71.	1007.	2	NAD-SFC NoSubs
7	2	7	38	17	5.0	0.155	0.540	0.005	1124.	146.	-66.4	0.0400	0.72	0.39	2.10	74.0	15.0	289.4	2.0	0	0.00	75.	1007.	2	NAD-SFC NoSubs
7	2	7	38	18	-2.2	0.075	-9.000	-9.000	-999.	52.	17.2	0.0310	0.72	1.00	1.00	93.0	15.0	288.9	2.0	0	0.00	79.	1008.	3	NAD-SFC NoSubs
7	2	7	38	19	-1.0	0.066	-9.000	-9.000	-999.	41.	26.4	0.0310	0.72	1.00	0.50	118.0	15.0	288.2	2.0	0	0.00	82.	1008.	3	NAD-SFC NoSubs
7	2	7	38	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	287.6	2.0	0	0.00	86.	1008.	3	NAD-SFC NoSubs
7	2	7	38	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	286.8	2.0	0	0.00	91.	1009.	3	NAD-SFC NoSubs
7	2	7	38	22	-8.2	0.128	-9.000	-9.000	-999.	110.	23.0	0.0420	0.72	1.00	2.10	295.0	15.0	285.9	2.0	0	0.00	93.	1009.	3	NAD-SFC NoSubs
7	2	7	38	23	-27.5	0.258	-9.000	-9.000	-999.	315.	56.4	0.0800	0.72	1.00	3.60	303.0	15.0	284.8	2.0	0	0.00	94.	1009.	3	NAD-SFC NoSubs
7	2	7	38	24	-27.6	0.258	-9.000	-9.000	-999.	315.	56.2	0.0800	0.72	1.00	3.60	314.0	15.0	283.6	2.0	0	0.00	95.	1009.	3	NAD-SFC NoSubs
7	2	8	39	1	-23.8	0.229	-9.000	-9.000	-999.	263.	45.2	0.0950	0.72	1.00	3.10	330.0	15.0	282.8	2.0	0	0.00	97.	1010.	3	NAD-SFC NoSubs
7	2	8	39	2	-16.5	0.189	-9.000	-9.000	-999.	198.	36.8	0.0950	0.72	1.00	2.60	351.0	15.0	282.0	2.0	0	0.00	98.	1010.	3	NAD-SFC NoSubs
7	2	8	39	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	281.6	2.0	0	0.00	99.	1010.	3	NAD-SFC NoSubs
7	2	8	39	4	-2.9	0.086	-9.000	-9.000	-999.	61.	19.9	0.0960	0.72	1.00	1.00	21.0	15.0	281.4	2.0	0	0.00	100.	1010.	3	NAD-SFC NoSubs
7	2	8	39	5	-1.2	0.071	-9.000	-9.000	-999.	46.	28.5	0.0650	0.72	1.00	0.50	30.0	15.0	281.5	2.0	0	0.00	99.	1010.	3	NAD-SFC NoSubs
7	2	8	39	6	-1.0	0.067	-9.000	-9.000	-999.	42.	26.9	0.0310	0.72	1.00	0.50	112.0	15.0	281.8	2.0	0	0.00	99.	1010.	2	NAD-SFC NoSubs
7	2	8	39	7	-1.0	0.067	-9.000	-9.000	-999.	42.	26.9	0.0310	0.72	1.00	0.50	101.0	15.0	281.8	2.0	0	0.00	99.	1010.	2	NAD-SFC NoSubs
7	2	8	39	8	-1.5	0.064	-9.000	-9.000	-999.	39.	16.1	0.0310	0.72	0.50	1.00	105.0	15.0	282.0	2.0	0	0.00	98.	1010.	2	NAD-SFC NoSubs
7	2	8	39	9	34.4	0.097	0.493	0.010	125.	73.	-2.4	0.0280	0.72	0.29	1.00	121.0	15.0	282.9	2.0	0	0.00	93.	1010.	2	NAD-SFC NoSubs
7	2	8	39	10	79.2	0.069	0.794	0.007	227.	44.	-1.0	0.0280	0.72	0.22	0.50	134.0	15.0	284.0	2.0	0	0.00	89.	1010.	2	NAD-SFC NoSubs
7	2	8	39	11	111.8	0.073	1.045	0.005	368.	48.	-1.0	0.0310	0.72	0.20	0.50	116.0	15.0	285.4	2.0	0	0.00	84.	1009.	2	NAD-SFC NoSubs

7	2	8	39	12	130.0	-9.000	-9.000	-9.000	581.	-999.	-99999.0	0.0471	0.72	0.19	0.00	0.0	15.0	286.6	2.0	0	0.00	79.	1009.	2	NAD-SFC	NoSubs
7	2	8	39	13	133.2	-9.000	-9.000	-9.000	760.	-999.	-99999.0	0.0471	0.72	0.19	0.00	0.0	15.0	287.8	2.0	0	0.00	73.	1008.	2	NAD-SFC	NoSubs
7	2	8	39	14	121.4	0.078	1.446	0.006	897.	52.	-1.0	0.0400	0.72	0.20	0.50	72.0	15.0	288.4	2.0	0	0.00	70.	1008.	2	NAD-SFC	NoSubs
7	2	8	39	15	94.8	0.116	1.374	0.007	984.	95.	-1.5	0.0400	0.72	0.21	1.00	72.0	15.0	288.8	2.0	0	0.00	69.	1007.	2	NAD-SFC	NoSubs
7	2	8	39	16	55.9	0.077	1.166	0.007	1019.	51.	-1.0	0.0650	0.72	0.25	0.50	53.0	15.0	288.8	2.0	0	0.00	70.	1007.	3	NAD-SFC	NoSubs
7	2	8	39	17	7.4	-9.000	-9.000	-9.000	1023.	-999.	-99999.0	0.0471	0.72	0.39	0.00	0.0	15.0	288.4	2.0	0	0.00	72.	1007.	3	NAD-SFC	NoSubs
7	2	8	39	18	-0.9	0.064	-9.000	-9.000	-999.	38.	25.4	0.0200	0.72	1.00	0.50	259.0	15.0	287.9	2.0	0	0.00	75.	1007.	3	NAD-SFC	NoSubs
7	2	8	39	19	-1.2	0.072	-9.000	-9.000	-999.	47.	28.8	0.0800	0.72	1.00	0.50	305.0	15.0	287.6	2.0	0	0.00	77.	1008.	3	NAD-SFC	NoSubs
7	2	8	39	20	-1.2	0.074	-9.000	-9.000	-999.	48.	29.3	0.0960	0.72	1.00	0.50	27.0	15.0	287.4	2.0	0	0.00	78.	1008.	3	NAD-SFC	NoSubs
7	2	8	39	21	-5.4	0.108	-9.000	-9.000	-999.	85.	21.1	0.0960	0.72	1.00	1.50	23.0	15.0	287.2	2.0	0	0.00	77.	1008.	3	NAD-SFC	NoSubs
7	2	8	39	22	-10.3	0.150	-9.000	-9.000	-999.	140.	29.7	0.0950	0.72	1.00	2.10	349.0	15.0	287.2	2.0	0	0.00	77.	1009.	4	NAD-SFC	NoSubs
7	2	8	39	23	-9.7	0.145	-9.000	-9.000	-999.	133.	28.1	0.0800	0.72	1.00	2.10	326.0	15.0	287.1	2.0	0	0.00	77.	1009.	4	NAD-SFC	NoSubs
7	2	8	39	24	-10.1	0.151	-9.000	-9.000	-999.	140.	30.5	0.0950	0.72	1.00	2.10	332.0	15.0	286.8	2.0	0	0.00	79.	1009.	5	NAD-SFC	NoSubs
7	2	9	40	1	-4.9	0.104	-9.000	-9.000	-999.	81.	20.7	0.0800	0.72	1.00	1.50	329.0	15.0	286.4	2.0	0	0.00	81.	1009.	5	NAD-SFC	NoSubs
7	2	9	40	2	-1.1	0.071	-9.000	-9.000	-999.	45.	28.4	0.0950	0.72	1.00	0.50	344.0	15.0	286.0	2.0	0	0.00	83.	1009.	5	NAD-SFC	NoSubs
7	2	9	40	3	-1.1	0.071	-9.000	-9.000	-999.	46.	28.5	0.0960	0.72	1.00	0.50	6.0	15.0	285.8	2.0	0	0.00	85.	1010.	5	NAD-SFC	NoSubs
7	2	9	40	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	285.6	2.0	0	0.00	86.	1010.	6	NAD-SFC	NoSubs
7	2	9	40	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	285.5	2.0	0	0.00	86.	1010.	5	NAD-SFC	NoSubs
7	2	9	40	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	285.5	2.0	0	0.00	87.	1010.	4	NAD-SFC	NoSubs
7	2	9	40	7	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	285.4	2.0	0	0.00	88.	1010.	4	NAD-SFC	NoSubs
7	2	9	40	8	-0.5	0.048	-9.000	-9.000	-999.	25.	20.6	0.0400	0.72	0.49	0.50	77.0	15.0	285.2	2.0	0	0.00	89.	1011.	4	NAD-SFC	NoSubs
7	2	9	40	9	38.3	0.100	0.590	0.005	193.	76.	-2.4	0.0310	0.72	0.29	1.00	90.0	15.0	285.8	2.0	0	0.00	87.	1011.	4	NAD-SFC	NoSubs
7	2	9	40	10	82.0	0.109	1.021	0.005	468.	86.	-1.4	0.0310	0.72	0.22	1.00	101.0	15.0	287.1	2.0	0	0.00	77.	1010.	4	NAD-SFC	NoSubs
7	2	9	40	11	114.4	0.074	1.288	0.005	673.	48.	-1.0	0.0310	0.72	0.20	0.50	111.0	15.0	288.1	2.0	0	0.00	73.	1010.	3	NAD-SFC	NoSubs
7	2	9	40	12	132.4	-9.000	-9.000	-9.000	874.	-999.	-99999.0	0.0471	0.72	0.19	0.00	0.0	15.0	289.0	2.0	0	0.00	69.	1009.	3	NAD-SFC	NoSubs
7	2	9	40	13	135.6	0.093	1.579	0.005	1046.	68.	-1.0	0.0950	0.72	0.19	0.50	349.0	15.0	289.8	2.0	0	0.00	66.	1009.	3	NAD-SFC	NoSubs
7	2	9	40	14	123.8	0.181	1.598	0.006	1187.	185.	-4.3	0.0950	0.72	0.20	1.50	356.0	15.0	290.0	2.0	0	0.00	65.	1008.	3	NAD-SFC	NoSubs
7	2	9	40	15	97.3	-9.000	-9.000	-9.000	1287.	-999.	-99999.0	0.0471	0.72	0.21	0.00	0.0	15.0	289.9	2.0	0	0.00	70.	1008.	3	NAD-SFC	NoSubs
7	2	9	40	16	57.9	0.285	1.292	0.007	1341.	366.	-36.1	0.0960	0.72	0.25	3.10	8.0	15.0	290.0	2.0	0	0.00	78.	1008.	4	NAD-SFC	NoSubs
7	2	9	40	17	10.0	0.259	0.721	0.007	1344.	318.	-156.7	0.0960	0.72	0.38	3.10	12.0	15.0	289.2	2.0	0	0.00	83.	1008.	4	NAD-SFC	NoSubs
7	2	9	40	18	-16.1	0.190	-9.000	-9.000	-999.	200.	38.3	0.0960	0.72	1.00	2.60	7.0	15.0	288.8	2.0	0	0.00	86.	1008.	4	NAD-SFC	NoSubs
7	2	9	40	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	288.5	2.0	0	0.00	86.	1008.	4	NAD-SFC	NoSubs
7	2	9	40	20	-5.3	0.108	-9.000	-9.000	-999.	85.	21.3	0.0950	0.72	1.00	1.50	339.0	15.0	288.4	2.0	0	0.00	87.	1008.	4	NAD-SFC	NoSubs
7	2	9	40	21	-5.0	0.104	-9.000	-9.000	-999.	81.	20.4	0.0800	0.72	1.00	1.50	316.0	15.0	288.2	2.0	0	0.00	88.	1008.	4	NAD-SFC	NoSubs
7	2	9	40	22	-4.9	0.104	-9.000	-9.000	-999.	80.	20.8	0.0800	0.72	1.00	1.50	325.0	15.0	288.0	2.0	0	0.00	89.	1008.	5	NAD-SFC	NoSubs
7	2	9	40	23	-4.7	0.103	-9.000	-9.000	-999.	80.	21.3	0.0800	0.72	1.00	1.50	325.0	15.0	287.9	2.0	0	0.00	89.	1009.	6	NAD-SFC	NoSubs
7	2	9	40	24	-4.7	0.107	-9.000	-9.000	-999.	84.	23.1	0.0950	0.72	1.00	1.50	331.0	15.0	287.8	2.0	0	0.00	90.	1008.	7	NAD-SFC	NoSubs
7	2	10	41	1	-3.9	0.107	-9.000	-9.000	-999.	84.	28.6	0.0950	0.72	1.00	1.50	335.0	15.0	287.5	2.0	0	0.00	92.	1008.	10	NAD-SFC	NoSubs
7	2	10	41	2	-7.8	0.154	-9.000	-9.000	-999.	145.	42.3	0.0950	0.72	1.00	2.10	349.0	15.0	287.1	2.0	0	0.51	95.	1008.	10	NAD-SFC	NoSubs
7	2	10	41	3	-7.8	0.155	-9.000	-9.000	-999.	146.	42.4	0.0960	0.72	1.00	2.10	10.0	15.0	286.9	2.0	0	1.02	97.	1007.	10	NAD-SFC	NoSubs
7	2	10	41	4	-7.8	0.155	-9.000	-9.000	-999.	146.	42.4	0.0960	0.72	1.00	2.10	21.0	15.0	286.8	2.0	0	1.02	99.	1007.	10	NAD-SFC	NoSubs
7	2	10	41	5	-7.8	0.155	-9.000	-9.000	-999.	146.	42.4	0.0960	0.72	1.00	2.10	26.0	15.0	286.6	2.0	0	0.76	100.	1007.	10	NAD-SFC	NoSubs
7	2	10	41	6	-6.9	0.143	-9.000	-9.000	-999.	129.	37.7	0.0650	0.72	1.00	2.10	45.0	15.0	286.6	2.0	0	0.76	100.	1007.	10	NAD-SFC	NoSubs
7	2	10	41	7	-9.1	0.164	-9.000	-9.000	-999.	159.	43.5	0.0400	0.72	1.00	2.60	61.0	15.0	286.6	2.0	0	0.51	100.	1007.	10	NAD-SFC	NoSubs
7	2	10	41	8	-5.1	0.132	-9.000	-9.000	-999.	115.	40.4	0.0400	0.72	0.48	2.10	79.0	15.0	286.6	2.0	0	0.51	99.	1006.	10	NAD-SFC	NoSubs
7	2	10	41	9	6.4	0.188	0.226	0.006	65.	196.	-93.8	0.0400	0.72	0.28	2.60	87.0	15.0	286.8	2.0	0	0.51	98.	1006.	10	NAD-SFC	NoSubs
7	2	10	41	10	68.7	0.210	0.807	0.005	274.	231.	-12.1	0.0310	0.72	0.22	2.60	100.0	15.0	287.2	2.0	0	0.51	94.	1006.	7	NAD-SFC	NoSubs
7	2	10	41	11	111.3	0.245	1.137	0.005	474.	292.	-11.9	0.0280	0.72	0.20	3.10	121.0	15.0	287.8	2.0	0	0.51	92.	1006.	5	NAD-SFC	NoSubs
7	2	10	41	12	128.1	0.278	1.334	0.005	665.	352.	-15.1	0.0280	0.72	0.19	3.60	122.0	15.0	288.2	2.0	0	0.51	91.	1005.	5	NAD-SFC	NoSubs
7	2	10	41	13	131.1	0.279	1.450	0.006	834.	353.	-14.8	0.0280	0.72	0.19	3.60	124.0	15.0	288.8	2.0	0	0.25	90.	1004.	5	NAD-SFC	NoSubs
7	2	10	41	14	120.0	0.311	1.478	0.006	964.	417.	-22.5	0.0310	0.72	0.20	4.10	119.0	15.0	289.2	2.0	0	0.00	88.	1003.	5	NAD-SFC	NoSubs
7	2	10	41	15	89.8	0.330	1.371	0.006	1026.	456.	-35.9	0.0280	0.72	0.21	4.60	133.0	15.0	289.8	2.0	0	0.00	85.	1002.	6	NAD-SFC	NoSubs
7	2	10	41	16	54.8	0.322	1.176	0.006	1060.	438.	-54.2	0.0280	0.72	0.25	4.60	135.0	15.0	289.6	2.0	0	0.00	85.	1001.	6	NAD-SFC	NoSubs
7	2	10	41	17	8.6	0.301	0.636	0.006	1065.	397.	-282.8	0.0280	0.72	0.38	4.60	138.0	15.0	289.2	2.0	0	0.51	86.	1001.	8	NAD-SFC	NoSubs
7	2	10	41	18	-13.6	0.248	-9.000	-9.000	-999.	298.	100.8	0.0280	0.72	1.00	4.10	144.0	15.0	288.8	2.0	0	1.78	91.	1002.	10	NAD-SFC	NoSubs
7	2	10	41	19	-11.9	0.217	-9.000	-9.000	-999.	243.	76.8	0.0280	0.72	1.00	3.60	120.0	15.0	288.4	2.0	0	2.29	95.	1002.	10	NAD-SFC	NoSubs
7	2	10	41	20	-17.7	0.215	-9.000	-9.000	-999.	239.	49.9	0.0280	0.72	1.00	3.60	127.0	15.0	288.4	2.0	0	1.27	95.	1002.	7	NAD-SFC	NoSubs
7	2	10	41	21	-14.7	0.183	-9.000	-9.000	-999.	189.	37.3	0.0280	0.72	1.00	3.10	135.0	15.0	288.2	2.0	0	0.76	94.	1002.	7	NAD-SFC	NoSubs
7	2	10	41	22	-17.7	0.215	-9.000	-9.000	-999.	239.	49.9	0.0280	0.72	1.00	3.60	144.0	15.0	288.2	2.0	0	0.76	95.	1002.	7	NAD-SFC	NoSubs
7	2	10	41	23	-14.8	0.183	-9.000	-9.000	-999.	189.	37.3	0.0280	0.72	1.00	3.10	147.0	15.0	288.0	2.0	0	1.02	96.	1003.	7	NAD-SFC	NoSubs
7	2	10	41	24	-14.2	0.179	-9.000	-9.000	-999.	181.	35.9	0.0240	0.72	1.00	3.10	161.0	15.0	287.9	2.0	0	1.52	96.	1002.	7	NAD-SFC	NoSubs
7	2	11	42	1	-10.5	0.147	-9.000	-9.000	-999.	135.	26.8	0.0240	0.72	1.00	2.60	166.0	15.0	287.8	2.0	0	1.52	95.	1002.	5	NAD-SFC	NoSubs
7	2	11	42	2	-10.6	0.144	-9.000	-9.000	-999.	132.	25.5	0.0220	0.72	1.00	2.60	193.0	15.0	287.8	2.0	0	0.76	94.	1002.	4	NAD-SFC	NoSubs
7	2	11	42	3	-3.6	0.086	-9.000	-9.000	-999.	61.	15.6	0.0220	0.72	1.00	1.50	234.0	15.0	287.6	2.0	0	0.25	92.	1002.	4	NAD-SFC	NoSubs
7	2	11	42	4	-8.0	0.128	-9.000	-9.000	-999.	110.	23.5	0.0420	0.72	1.00	2.10	282.0	15.0	287.1	2.0	0	0.00	91.	1003.	4	NAD-SFC	NoSubs
7	2	11	42	5	-12.5	0.161	-9.000	-9.000	-999.	156.	30.0	0.0420	0.72	1.00	2.60	297.0	15.0	286.2	2.0	0	0.00	91.	1003.	4	NAD-SFC	NoSubs
7	2	11	42	6	-21.9	0.221	-9.000	-9.000	-999.	249.	44.1	0.0800	0.72	1.00	3.10	316.0	15.0	285.4	2.0	0	0.00	92.	1004.	4	NAD-SFC	NoSubs
7	2	11	42	7	-26.5	0.259	-9.000	-9.000	-999.	316.	58.7	0.0800	0.72	1.00	3.60	313.0	15.0	284.6	2.0	0	0.00	93.	1005.	4	NAD-SFC	NoSubs
7	2	11	42	8	-7.9	0.200	-9.000	-9.000	-999.	216.	90.8	0.0420	0.72	0.48	3.10	288.0	15.0	284.6	2.0	0	0.00	91.	1005.	4	NAD-SFC	NoSubs
7	2	11	42	9	40.5	0.274	0.694	0.005	295.	344.	-45.6	0.0420	0.72	0.28	3.60	293.0	15.0	286.0	2.0	0	0.00	80.	1006.	4	NAD-SFC	NoSubs
7	2	11	42	10	84.3	0.249	1.065	0.005	514.	298.	-16.4	0.0800	0.72	0.22	2.60	315.0	15.0	287.2	2.0	0	0.00	72.	1006.	4	NAD-SFC	NoSubs
7	2	11	42	11	116.0	0.175	1.331	0.005	729.	177.	-4.1	0.0800	0.72	0.20	1.50	311.0	15.0	288.4	2.0	0	0.00	64.	1005.	4	NAD-SFC	NoSubs
7	2	11	42	12	31.2	0.115	0.885	0.005	794.	95.	-4.4	0.0800	0.72	0.19	1.00	321.0	15.0	289.2	2.0	0	0.00	58.	1005.	10	NAD-SFC	NoSubs
7	2	11	42	13	111.8	0.091	1.452	0.005	983.	66.	-1.0	0.0960	0.72	0.19	0.50	8.0	15.0	289.8	2.0	0	0.00	55.	1005.	7	NAD-SFC	NoSubs
7	2	11	42	14	102.6	0.127	1.454	0.005	1076.	109.	-1.8	0.0650	0.72	0.20	1.00	42.0	15.0	290.1	2.0	0	0.00	53.	1005.	7	NAD-SFC	NoSubs
7	2	11	42	15	96.5	0.208	1.460	0.005	1157.	228.	-8.4	0.0650	0.72	0.21	2.10	55.0	15.0	290.0	2.0	0	0.00	56.	1004.	5	NAD-SFC	NoSubs
7	2	11	42	16	59.1	0.156	1.257	0.005	1204.	149.	-5.8	0.0650	0.72	0.25	1.50	35.0	15.0	290.2	2.0	0	0.00	53.	1004.	5	NAD-SFC	NoSubs

7	2	11	42	17	13.0	0.109	0.760	0.005	1213.	86.	-8.8	0.0960	0.72	0.37	1.00	14.0	15.0	290.0	2.0	0	0.00	57.	1005.	5	NAD-SFC	NoSubs
7	2	11	42	18	-1.1	0.069	-9.000	-9.000	-999.	44.	27.9	0.0800	0.72	1.00	0.50	307.0	15.0	289.2	2.0	0	0.00	61.	1005.	5	NAD-SFC	NoSubs
7	2	11	42	19	-7.8	0.128	-9.000	-9.000	-999.	110.	24.2	0.0420	0.72	1.00	2.10	281.0	15.0	288.4	2.0	0	0.00	64.	1006.	5	NAD-SFC	NoSubs
7	2	11	42	20	-25.4	0.263	-9.000	-9.000	-999.	323.	64.1	0.0420	0.72	1.00	4.10	283.0	15.0	286.8	2.0	0	0.00	73.	1006.	5	NAD-SFC	NoSubs
7	2	11	42	21	-22.3	0.229	-9.000	-9.000	-999.	264.	48.5	0.0420	0.72	1.00	3.60	281.0	15.0	285.2	2.0	0	0.00	83.	1007.	5	NAD-SFC	NoSubs
7	2	11	42	22	-17.2	0.196	-9.000	-9.000	-999.	208.	39.2	0.0420	0.72	1.00	3.10	286.0	15.0	284.5	2.0	0	0.00	88.	1007.	6	NAD-SFC	NoSubs
7	2	11	42	23	-16.6	0.196	-9.000	-9.000	-999.	209.	41.1	0.0420	0.72	1.00	3.10	276.0	15.0	283.9	2.0	0	0.00	93.	1008.	7	NAD-SFC	NoSubs
7	2	11	42	24	-17.6	0.231	-9.000	-9.000	-999.	266.	62.9	0.0420	0.72	1.00	3.60	274.0	15.0	283.5	2.0	0	0.00	95.	1008.	8	NAD-SFC	NoSubs
7	2	12	43	1	-14.9	0.266	-9.000	-9.000	-999.	329.	113.6	0.0420	0.72	1.00	4.10	279.0	15.0	283.5	2.0	0	0.00	94.	1008.	10	NAD-SFC	NoSubs
7	2	12	43	2	-14.9	0.266	-9.000	-9.000	-999.	329.	113.6	0.0420	0.72	1.00	4.10	279.0	15.0	283.6	2.0	0	0.00	93.	1008.	10	NAD-SFC	NoSubs
7	2	12	43	3	-11.1	0.199	-9.000	-9.000	-999.	214.	63.4	0.0420	0.72	1.00	3.10	284.0	15.0	283.6	2.0	0	0.00	92.	1008.	10	NAD-SFC	NoSubs
7	2	12	43	4	-7.1	0.130	-9.000	-9.000	-999.	113.	27.7	0.0420	0.72	1.00	2.10	271.0	15.0	283.5	2.0	0	0.00	91.	1009.	8	NAD-SFC	NoSubs
7	2	12	43	5	-2.5	0.081	-9.000	-9.000	-999.	56.	18.9	0.0200	0.72	1.00	1.50	269.0	15.0	283.5	2.0	0	0.25	90.	1009.	10	NAD-SFC	NoSubs
7	2	12	43	6	-6.1	0.131	-9.000	-9.000	-999.	114.	33.2	0.0420	0.72	1.00	2.10	272.0	15.0	283.4	2.0	0	0.25	89.	1010.	10	NAD-SFC	NoSubs
7	2	12	43	7	-12.4	0.162	-9.000	-9.000	-999.	156.	30.7	0.0420	0.72	1.00	2.60	283.0	15.0	283.1	2.0	0	0.51	91.	1010.	5	NAD-SFC	NoSubs
7	2	12	43	8	-4.2	0.134	-9.000	-9.000	-999.	118.	51.6	0.0420	0.72	0.47	2.10	282.0	15.0	283.0	2.0	0	0.25	91.	1010.	5	NAD-SFC	NoSubs
7	2	12	43	9	38.5	0.178	0.671	0.006	283.	181.	-13.3	0.0420	0.72	0.28	2.10	286.0	15.0	283.1	2.0	0	0.00	88.	1010.	6	NAD-SFC	NoSubs
7	2	12	43	10	82.4	0.212	0.999	0.006	437.	235.	-10.5	0.0800	0.72	0.22	2.10	302.0	15.0	283.5	2.0	0	0.00	84.	1010.	5	NAD-SFC	NoSubs
7	2	12	43	11	112.6	0.088	1.210	0.005	567.	74.	-1.0	0.0800	0.72	0.20	0.50	305.0	15.0	284.2	2.0	0	0.00	81.	1010.	5	NAD-SFC	NoSubs
7	2	12	43	12	129.6	-9.000	-9.000	-9.000	701.	-999.	-99999.0	0.0471	0.72	0.19	0.00	0.0	15.0	285.2	2.0	0	0.00	77.	1009.	5	NAD-SFC	NoSubs
7	2	12	43	13	132.6	-9.000	-9.000	-9.000	849.	-999.	-99999.0	0.0471	0.72	0.19	0.00	0.0	15.0	286.1	2.0	0	0.00	73.	1009.	5	NAD-SFC	NoSubs
7	2	12	43	14	125.2	0.089	1.499	0.005	968.	64.	-1.0	0.0800	0.72	0.19	0.50	321.0	15.0	286.5	2.0	0	0.00	71.	1008.	4	NAD-SFC	NoSubs
7	2	12	43	15	99.3	0.171	1.440	0.005	1082.	170.	-4.6	0.0800	0.72	0.21	1.50	328.0	15.0	286.5	2.0	0	0.00	71.	1008.	4	NAD-SFC	NoSubs
7	2	12	43	16	60.0	0.212	1.241	0.005	1146.	235.	-14.4	0.0950	0.72	0.25	2.10	354.0	15.0	286.4	2.0	0	0.00	74.	1007.	3	NAD-SFC	NoSubs
7	2	12	43	17	10.7	0.143	0.702	0.005	1156.	131.	-24.5	0.0950	0.72	0.37	1.50	358.0	15.0	286.0	2.0	0	0.00	76.	1007.	3	NAD-SFC	NoSubs
7	2	12	43	18	-5.0	0.104	-9.000	-9.000	-999.	81.	20.4	0.0800	0.72	0.76	1.50	322.0	15.0	285.8	2.0	0	0.00	78.	1008.	4	NAD-SFC	NoSubs
7	2	12	43	19	-5.0	0.104	-9.000	-9.000	-999.	81.	20.3	0.0800	0.72	1.00	1.50	305.0	15.0	285.2	2.0	0	0.00	81.	1008.	4	NAD-SFC	NoSubs
7	2	12	43	20	-8.1	0.128	-9.000	-9.000	-999.	110.	23.4	0.0420	0.72	1.00	2.10	280.0	15.0	285.0	2.0	0	0.00	83.	1008.	4	NAD-SFC	NoSubs
7	2	12	43	21	-12.3	0.162	-9.000	-9.000	-999.	156.	30.8	0.0420	0.72	1.00	2.60	292.0	15.0	284.5	2.0	0	0.00	87.	1008.	5	NAD-SFC	NoSubs
7	2	12	43	22	-13.9	0.184	-9.000	-9.000	-999.	190.	40.3	0.0800	0.72	1.00	2.60	305.0	15.0	284.2	2.0	0	0.00	90.	1008.	7	NAD-SFC	NoSubs
7	2	12	43	23	-9.2	0.165	-9.000	-9.000	-999.	161.	43.9	0.0420	0.72	1.00	2.60	298.0	15.0	284.1	2.0	0	0.25	92.	1008.	10	NAD-SFC	NoSubs
7	2	12	43	24	-12.5	0.224	-9.000	-9.000	-999.	255.	81.0	0.0800	0.72	1.00	3.10	305.0	15.0	283.9	2.0	0	0.51	95.	1008.	10	NAD-SFC	NoSubs
7	2	13	44	1	-16.8	0.300	-9.000	-9.000	-999.	395.	144.9	0.0800	0.72	1.00	4.10	304.0	15.0	283.8	2.0	0	1.02	96.	1008.	10	NAD-SFC	NoSubs
7	2	13	44	2	-14.7	0.262	-9.000	-9.000	-999.	323.	110.5	0.0800	0.72	1.00	3.60	315.0	15.0	283.6	2.0	0	1.27	97.	1008.	10	NAD-SFC	NoSubs
7	2	13	44	3	-19.0	0.338	-9.000	-9.000	-999.	473.	184.1	0.0800	0.72	1.00	4.60	319.0	15.0	283.6	2.0	0	1.52	97.	1009.	10	NAD-SFC	NoSubs
7	2	13	44	4	-16.8	0.300	-9.000	-9.000	-999.	396.	144.8	0.0800	0.72	1.00	4.10	327.0	15.0	283.5	2.0	0	0.51	95.	1009.	10	NAD-SFC	NoSubs
7	2	13	44	5	-22.7	0.298	-9.000	-9.000	-999.	391.	105.1	0.0800	0.72	1.00	4.10	314.0	15.0	283.4	2.0	0	0.51	94.	1009.	8	NAD-SFC	NoSubs
7	2	13	44	6	-38.5	0.372	-9.000	-9.000	-999.	545.	120.6	0.0800	0.72	1.00	5.10	312.0	15.0	282.8	2.0	0	0.25	92.	1010.	4	NAD-SFC	NoSubs
7	2	13	44	7	-32.0	0.296	-9.000	-9.000	-999.	390.	73.3	0.0800	0.72	1.00	4.10	307.0	15.0	281.6	2.0	0	0.00	95.	1011.	3	NAD-SFC	NoSubs
7	2	13	44	8	-17.5	0.426	-9.000	-9.000	-999.	667.	399.0	0.0800	0.72	0.47	5.70	320.0	15.0	282.2	2.0	0	0.00	89.	1011.	3	NAD-SFC	NoSubs
7	2	13	44	9	41.4	0.412	0.735	0.005	345.	634.	-152.2	0.0800	0.72	0.28	5.10	329.0	15.0	283.2	2.0	0	0.00	77.	1012.	3	NAD-SFC	NoSubs
7	2	13	44	10	85.8	0.366	1.121	0.005	593.	532.	-51.4	0.0950	0.72	0.22	4.10	341.0	15.0	284.2	2.0	0	0.00	67.	1012.	4	NAD-SFC	NoSubs
7	2	13	44	11	117.4	0.337	1.393	0.005	830.	470.	-29.4	0.0950	0.72	0.20	3.60	334.0	15.0	285.0	2.0	0	0.00	60.	1011.	4	NAD-SFC	NoSubs
7	2	13	44	12	130.9	0.340	1.577	0.005	1081.	476.	-27.0	0.0950	0.72	0.19	3.60	331.0	15.0	285.8	2.0	0	0.00	56.	1010.	5	NAD-SFC	NoSubs
7	2	13	44	13	133.9	0.330	1.708	0.006	1343.	456.	-24.3	0.0800	0.72	0.19	3.60	329.0	15.0	286.4	2.0	0	0.00	51.	1010.	5	NAD-SFC	NoSubs
7	2	13	44	14	126.6	0.329	1.703	0.005	1406.	453.	-25.3	0.0800	0.72	0.19	3.60	327.0	15.0	286.9	2.0	0	0.00	48.	1009.	4	NAD-SFC	NoSubs
7	2	13	44	15	100.7	0.369	1.596	0.005	1455.	538.	-45.0	0.0950	0.72	0.21	4.10	340.0	15.0	287.2	2.0	0	0.00	46.	1009.	4	NAD-SFC	NoSubs
7	2	13	44	16	61.6	0.395	1.364	0.005	1483.	596.	-90.2	0.0950	0.72	0.25	4.60	339.0	15.0	287.1	2.0	0	0.00	47.	1009.	4	NAD-SFC	NoSubs
7	2	13	44	17	11.9	0.261	0.790	0.005	1488.	331.	-134.1	0.0950	0.72	0.36	3.10	350.0	15.0	286.5	2.0	0	0.00	57.	1009.	3	NAD-SFC	NoSubs
7	2	13	44	18	-23.7	0.229	-9.000	-9.000	-999.	263.	45.5	0.0950	0.72	0.75	3.10	345.0	15.0	285.8	2.0	0	0.00	59.	1010.	3	NAD-SFC	NoSubs
7	2	13	44	19	-10.0	0.145	-9.000	-9.000	-999.	135.	27.4	0.0800	0.72	1.00	2.10	324.0	15.0	285.1	2.0	0	0.00	60.	1010.	3	NAD-SFC	NoSubs
7	2	13	44	20	-4.4	0.095	-9.000	-9.000	-999.	70.	17.5	0.0420	0.72	1.00	1.50	286.0	15.0	284.4	2.0	0	0.00	62.	1011.	3	NAD-SFC	NoSubs
7	2	13	44	21	-10.7	0.142	-9.000	-9.000	-999.	128.	24.2	0.0200	0.72	1.00	2.60	269.0	15.0	283.5	2.0	0	0.00	64.	1011.	3	NAD-SFC	NoSubs
7	2	13	44	22	-10.7	0.142	-9.000	-9.000	-999.	128.	24.1	0.0200	0.72	1.00	2.60	269.0	15.0	282.5	2.0	0	0.00	68.	1012.	3	NAD-SFC	NoSubs
7	2	13	44	23	-18.7	0.195	-9.000	-9.000	-999.	206.	35.7	0.0420	0.72	1.00	3.10	278.0	15.0	281.8	2.0	0	0.00	71.	1012.	3	NAD-SFC	NoSubs
7	2	13	44	24	-24.7	0.229	-9.000	-9.000	-999.	262.	43.6	0.0420	0.72	1.00	3.60	286.0	15.0	281.2	2.0	0	0.00	74.	1012.	3	NAD-SFC	NoSubs
7	2	14	45	1	-18.7	0.195	-9.000	-9.000	-999.	207.	35.6	0.0420	0.72	1.00	3.10	290.0	15.0	280.8	2.0	0	0.00	77.	1013.	3	NAD-SFC	NoSubs
7	2	14	45	2	-13.0	0.161	-9.000	-9.000	-999.	155.	29.0	0.0420	0.72	1.00	2.60	292.0	15.0	280.2	2.0	0	0.00	80.	1013.	3	NAD-SFC	NoSubs
7	2	14	45	3	-8.4	0.128	-9.000	-9.000	-999.	110.	22.7	0.0420	0.72	1.00	2.10	296.0	15.0	279.8	2.0	0	0.00	82.	1014.	3	NAD-SFC	NoSubs
7	2	14	45	4	-2.4	0.079	-9.000	-9.000	-999.	53.	18.0	0.0420	0.72	1.00	1.00	286.0	15.0	279.4	2.0	0	0.00	83.	1014.	3	NAD-SFC	NoSubs
7	2	14	45	5	-2.8	0.085	-9.000	-9.000	-999.	59.	19.5	0.0800	0.72	1.00	1.00	308.0	15.0	279.2	2.0	0	0.00	83.	1015.	3	NAD-SFC	NoSubs
7	2	14	45	6	-2.8	0.085	-9.000	-9.000	-999.	59.	19.5	0.0800	0.72	1.00	1.00	315.0	15.0	278.9	2.0	0	0.00	83.	1016.	3	NAD-SFC	NoSubs
7	2	14	45	7	-2.5	0.079	-9.000	-9.000	-999.	53.	18.0	0.0420	0.72	1.00	1.00	280.0	15.0	278.4	2.0	0	0.00	84.	1016.	3	NAD-SFC	NoSubs
7	2	14	45	8	-1.2	0.062	-9.000	-9.000	-999.	37.	18.3	0.0420	0.72	0.46	1.00	274.0	15.0	278.6	2.0	0	0.00	83.	1017.	3	NAD-SFC	NoSubs
7	2	14	45	9	40.8	0.205	0.557	0.006	153.	223.	-19.3	0.0950	0.72	0.28	2.10	343.0	15.0	281.2	2.0	0	0.00	66.	1017.	2	NAD-SFC	NoSubs
7	2	14	45	10	86.1	0.174	0.904	0.005	311.	174.	-5.6	0.0950	0.72	0.22	1.50	343.0	15.0	282.8	2.0	0	0.00	58.	1017.	2	NAD-SFC	NoSubs
7	2	14	45	11	118.8	0.175	1.181	0.005	503.	175.	-4.1	0.0800	0.72	0.20	1.50	328.0	15.0	284.2	2.0	0	0.00	53.	1017.	2	NAD-SFC	NoSubs
7	2	14	45	12	137.0	0.183	1.395	0.005	719.	188.	-4.1	0.0950	0.72	0.19	1.50	334.0	15.0	285.5	2.0	0	0.00	49.	1016.	2	NAD-SFC	NoSubs
7	2	14	45	13	140.4	0.230	1.507	0.006	885.	265.	-7.9	0.0950	0.72	0.19	2.10	342.0	15.0	286.8	2.0	0	0.00	45.	1016.	2	NAD-SFC	NoSubs
7	2	14	45	14	128.5	0.229	1.526	0.006	1003.	263.	-8.4	0.0950	0.72	0.19	2.10	337.0	15.0	287.5	2.0	0	0.00	43.	1015.	2	NAD-SFC	NoSubs
7	2	14	45	15	101.9	0.223	1.444	0.006	1071.	254.	-9.9	0.0950	0.72	0.21	2.10	355.0	15.0	287.9	2.0	0	0.00	42.	1015.	2	NAD-SFC	NoSubs
7	2	14	45	16	61.5	0.168	1.235	0.006	1110.	166.	-6.9	0.0950	0.72	0.24	1.50	353.0	15.0	287.8	2.0	0	0.00	43.	1016.	2	NAD-SFC	NoSubs
7	2	14	45	17	11.5	-9.000	-9.000	-9.000	1116.	-999.	-99999.0	0.0471	0.72	0.36	0.00	0.0	15.0	287.5	2.0	0	0.00	48.	1016.	2	NAD-SFC	NoSubs
7	2	14	45	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	0.74	0.00	0.0	15.0	286.6	2.0	0	0.00	52.	1017.	2	NAD-SFC	NoSubs
7	2	14	45	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	285.2	2.0	0	0.00	58.	1017.	2	NAD-SFC	NoSubs
7	2	14	45	20	-1.0	0.066	-9.000	-9.000	-999.	40.	26.2	0.0240	0.72	1.00	0.50	177.0	15.0	284.1	2.0	0	0.00	64.	1017.	2	NAD-SFC	NoSubs
7	2	14	45	21	-1.0	0.065	-9.000	-9.000	-999.	40.	26.0	0.0220	0.72	1.00	0.50	191.0	15.0	283.0	2.0	0	0.00	69.	1018.	2	NAD-SFC	NoSubs

7	2	14	45	22	-2.2	0.074	-9.000	-9.000	-999.	48.	16.8	0.0220	0.72	1.00	1.00	198.0	15.0	282.2	2.0	0	0.00	71.	1018.	2 NAD-SFC NoSubs
7	2	14	45	23	-2.2	0.074	-9.000	-9.000	-999.	48.	16.8	0.0220	0.72	1.00	1.00	208.0	15.0	281.8	2.0	0	0.00	71.	1018.	2 NAD-SFC NoSubs
7	2	14	45	24	-2.2	0.074	-9.000	-9.000	-999.	49.	16.8	0.0220	0.72	1.00	1.00	223.0	15.0	281.2	2.0	0	0.00	70.	1018.	2 NAD-SFC NoSubs
7	2	15	46	1	-2.2	0.074	-9.000	-9.000	-999.	49.	16.8	0.0220	0.72	1.00	1.00	233.0	15.0	280.8	2.0	0	0.00	70.	1018.	2 NAD-SFC NoSubs
7	2	15	46	2	-2.2	0.074	-9.000	-9.000	-999.	48.	16.6	0.0200	0.72	1.00	1.00	242.0	15.0	280.2	2.0	0	0.00	70.	1019.	2 NAD-SFC NoSubs
7	2	15	46	3	-3.8	0.086	-9.000	-9.000	-999.	61.	15.2	0.0200	0.72	1.00	1.50	252.0	15.0	279.9	2.0	0	0.00	71.	1019.	2 NAD-SFC NoSubs
7	2	15	46	4	-4.5	0.095	-9.000	-9.000	-999.	70.	17.3	0.0420	0.72	1.00	1.50	270.0	15.0	279.5	2.0	0	0.00	72.	1019.	2 NAD-SFC NoSubs
7	2	15	46	5	-2.5	0.079	-9.000	-9.000	-999.	54.	18.1	0.0420	0.72	1.00	1.00	288.0	15.0	279.2	2.0	0	0.00	73.	1019.	2 NAD-SFC NoSubs
7	2	15	46	6	-1.3	0.074	-9.000	-9.000	-999.	48.	29.4	0.0800	0.72	1.00	0.50	307.0	15.0	278.8	2.0	0	0.00	75.	1020.	2 NAD-SFC NoSubs
7	2	15	46	7	-1.0	0.066	-9.000	-9.000	-999.	40.	26.2	0.0220	0.72	1.00	0.50	211.0	15.0	278.4	2.0	0	0.00	77.	1020.	2 NAD-SFC NoSubs
7	2	15	46	8	-0.4	0.044	-9.000	-9.000	-999.	22.	18.9	0.0220	0.72	0.45	0.50	194.0	15.0	278.8	2.0	0	0.00	77.	1021.	2 NAD-SFC NoSubs
7	2	15	46	9	41.9	-9.000	-9.000	-9.000	135.	-999.	-99999.0	0.0471	0.72	0.27	0.00	0.0	15.0	281.2	2.0	0	0.00	67.	1021.	2 NAD-SFC NoSubs
7	2	15	46	10	87.4	-9.000	-9.000	-9.000	268.	-999.	-99999.0	0.0471	0.72	0.22	0.00	0.0	15.0	283.2	2.0	0	0.00	60.	1021.	2 NAD-SFC NoSubs
7	2	15	46	11	120.2	-9.000	-9.000	-9.000	394.	-999.	-99999.0	0.0471	0.72	0.20	0.00	0.0	15.0	284.9	2.0	0	0.00	53.	1020.	2 NAD-SFC NoSubs
7	2	15	46	12	138.6	-9.000	-9.000	-9.000	595.	-999.	-99999.0	0.0471	0.72	0.19	0.00	0.0	15.0	286.5	2.0	0	0.00	47.	1019.	2 NAD-SFC NoSubs
7	2	15	46	13	142.0	-9.000	-9.000	-9.000	744.	-999.	-99999.0	0.0471	0.72	0.19	0.00	0.0	15.0	287.9	2.0	0	0.00	43.	1018.	2 NAD-SFC NoSubs
7	2	15	46	14	130.2	-9.000	-9.000	-9.000	857.	-999.	-99999.0	0.0471	0.72	0.19	0.00	0.0	15.0	288.8	2.0	0	0.00	41.	1018.	2 NAD-SFC NoSubs
7	2	15	46	15	103.6	0.077	1.388	0.009	937.	51.	-1.0	0.0420	0.72	0.21	0.50	298.0	15.0	289.2	2.0	0	0.00	40.	1017.	2 NAD-SFC NoSubs
7	2	15	46	16	63.3	0.124	1.195	0.009	979.	105.	-2.8	0.0800	0.72	0.24	1.00	306.0	15.0	289.5	2.0	0	0.00	41.	1017.	2 NAD-SFC NoSubs
7	2	15	46	17	13.1	0.105	0.708	0.009	984.	82.	-8.0	0.0800	0.72	0.36	1.00	314.0	15.0	289.2	2.0	0	0.00	46.	1017.	2 NAD-SFC NoSubs
7	2	15	46	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	0.73	0.00	0.0	15.0	288.2	2.0	0	0.00	50.	1017.	2 NAD-SFC NoSubs
7	2	15	46	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	287.0	2.0	0	0.00	56.	1017.	2 NAD-SFC NoSubs
7	2	15	46	20	-2.2	0.074	-9.000	-9.000	-999.	49.	16.9	0.0240	0.72	1.00	1.00	175.0	15.0	285.9	2.0	0	0.00	61.	1017.	2 NAD-SFC NoSubs
7	2	15	46	21	-3.9	0.088	-9.000	-9.000	-999.	63.	15.7	0.0240	0.72	1.00	1.50	161.0	15.0	285.0	2.0	0	0.00	65.	1018.	2 NAD-SFC NoSubs
7	2	15	46	22	-3.9	0.088	-9.000	-9.000	-999.	63.	15.7	0.0240	0.72	1.00	1.50	154.0	15.0	284.2	2.0	0	0.00	67.	1018.	2 NAD-SFC NoSubs
7	2	15	46	23	-4.1	0.090	-9.000	-9.000	-999.	65.	16.1	0.0280	0.72	1.00	1.50	130.0	15.0	283.8	2.0	0	0.00	69.	1018.	2 NAD-SFC NoSubs
7	2	15	46	24	-2.3	0.076	-9.000	-9.000	-999.	50.	17.2	0.0280	0.72	1.00	1.00	134.0	15.0	283.2	2.0	0	0.00	71.	1018.	2 NAD-SFC NoSubs
7	2	16	47	1	-2.2	0.075	-9.000	-9.000	-999.	49.	16.9	0.0240	0.72	1.00	1.00	155.0	15.0	282.6	2.0	0	0.00	74.	1018.	2 NAD-SFC NoSubs
7	2	16	47	2	-4.0	0.088	-9.000	-9.000	-999.	63.	15.7	0.0240	0.72	1.00	1.50	171.0	15.0	282.2	2.0	0	0.00	77.	1018.	2 NAD-SFC NoSubs
7	2	16	47	3	-3.9	0.087	-9.000	-9.000	-999.	62.	15.4	0.0220	0.72	1.00	1.50	192.0	15.0	282.2	2.0	0	0.00	80.	1018.	2 NAD-SFC NoSubs
7	2	16	47	4	-3.9	0.087	-9.000	-9.000	-999.	62.	15.4	0.0220	0.72	1.00	1.50	224.0	15.0	282.0	2.0	0	0.00	86.	1017.	2 NAD-SFC NoSubs
7	2	16	47	5	-3.8	0.086	-9.000	-9.000	-999.	61.	15.2	0.0200	0.72	1.00	1.50	251.0	15.0	281.8	2.0	0	0.00	93.	1018.	2 NAD-SFC NoSubs
7	2	16	47	6	-8.5	0.128	-9.000	-9.000	-999.	110.	22.5	0.0420	0.72	1.00	2.10	279.0	15.0	281.6	2.0	0	0.00	99.	1018.	2 NAD-SFC NoSubs
7	2	16	47	7	-13.2	0.161	-9.000	-9.000	-999.	155.	28.6	0.0420	0.72	1.00	2.60	295.0	15.0	281.8	2.0	0	0.00	100.	1018.	2 NAD-SFC NoSubs
7	2	16	47	8	-6.9	0.189	-9.000	-9.000	-999.	197.	88.8	0.0800	0.72	0.45	2.60	300.0	15.0	281.9	2.0	0	0.00	100.	1018.	2 NAD-SFC NoSubs
7	2	16	47	9	43.3	0.180	0.559	0.009	146.	183.	-12.2	0.0420	0.72	0.27	2.10	298.0	15.0	282.2	2.0	0	0.00	100.	1018.	2 NAD-SFC NoSubs
7	2	16	47	10	88.5	0.169	0.930	0.011	330.	167.	-5.0	0.0800	0.72	0.21	1.50	304.0	15.0	282.2	2.0	0	0.00	100.	1018.	2 NAD-SFC NoSubs
7	2	16	47	11	120.9	0.078	1.155	0.012	463.	57.	-1.0	0.0420	0.72	0.20	0.50	295.0	15.0	282.4	2.0	0	0.00	100.	1017.	2 NAD-SFC NoSubs
7	2	16	47	12	139.0	-9.000	-9.000	-9.000	571.	-999.	-99999.0	0.0471	0.72	0.19	0.00	0.0	15.0	283.1	2.0	0	0.00	98.	1016.	2 NAD-SFC NoSubs
7	2	16	47	13	142.5	0.087	1.377	0.012	665.	61.	-1.0	0.0650	0.72	0.19	0.50	53.0	15.0	285.2	2.0	0	0.00	86.	1015.	2 NAD-SFC NoSubs
7	2	16	47	14	131.2	0.092	1.380	0.011	725.	67.	-1.0	0.0950	0.72	0.19	0.50	335.0	15.0	288.1	2.0	0	0.00	71.	1014.	2 NAD-SFC NoSubs
7	2	16	47	15	104.9	0.132	1.307	0.011	770.	115.	-2.0	0.0800	0.72	0.21	1.00	326.0	15.0	289.5	2.0	0	0.00	63.	1013.	2 NAD-SFC NoSubs
7	2	16	47	16	64.6	0.169	1.125	0.010	796.	166.	-6.7	0.0950	0.72	0.24	1.50	340.0	15.0	289.9	2.0	0	0.00	61.	1012.	2 NAD-SFC NoSubs
7	2	16	47	17	14.3	0.064	0.682	0.010	802.	47.	-1.7	0.0650	0.72	0.35	0.50	52.0	15.0	289.8	2.0	0	0.00	65.	1012.	2 NAD-SFC NoSubs
7	2	16	47	18	-2.3	0.076	-9.000	-9.000	-999.	50.	17.3	0.0310	0.72	0.72	1.00	119.0	15.0	288.8	2.0	0	0.00	69.	1012.	2 NAD-SFC NoSubs
7	2	16	47	19	-7.5	0.120	-9.000	-9.000	-999.	99.	20.5	0.0280	0.72	1.00	2.10	142.0	15.0	287.8	2.0	0	0.00	73.	1012.	2 NAD-SFC NoSubs
7	2	16	47	20	-16.2	0.177	-9.000	-9.000	-999.	179.	30.8	0.0240	0.72	1.00	3.10	154.0	15.0	287.1	2.0	0	0.00	77.	1012.	2 NAD-SFC NoSubs
7	2	16	47	21	-22.1	0.208	-9.000	-9.000	-999.	227.	36.6	0.0240	0.72	1.00	3.60	164.0	15.0	286.4	2.0	0	0.00	80.	1012.	2 NAD-SFC NoSubs
7	2	16	47	22	-16.2	0.177	-9.000	-9.000	-999.	179.	30.8	0.0240	0.72	1.00	3.10	159.0	15.0	285.9	2.0	0	0.00	82.	1012.	2 NAD-SFC NoSubs
7	2	16	47	23	-11.3	0.146	-9.000	-9.000	-999.	134.	25.0	0.0240	0.72	1.00	2.60	151.0	15.0	285.5	2.0	0	0.00	84.	1012.	2 NAD-SFC NoSubs
7	2	16	47	24	-11.3	0.146	-9.000	-9.000	-999.	134.	25.0	0.0240	0.72	1.00	2.60	154.0	15.0	285.1	2.0	0	0.00	86.	1011.	2 NAD-SFC NoSubs
7	2	17	48	1	-3.9	0.088	-9.000	-9.000	-999.	63.	15.7	0.0240	0.72	1.00	1.50	166.0	15.0	284.8	2.0	0	0.00	86.	1011.	2 NAD-SFC NoSubs
7	2	17	48	2	-2.5	0.079	-9.000	-9.000	-999.	53.	18.0	0.0420	0.72	1.00	1.00	272.0	15.0	284.4	2.0	0	0.00	86.	1011.	2 NAD-SFC NoSubs
7	2	17	48	3	-5.2	0.105	-9.000	-9.000	-999.	82.	19.9	0.0800	0.72	1.00	1.50	301.0	15.0	283.9	2.0	0	0.00	89.	1010.	2 NAD-SFC NoSubs
7	2	17	48	4	-5.2	0.105	-9.000	-9.000	-999.	82.	19.9	0.0800	0.72	1.00	1.50	314.0	15.0	283.4	2.0	0	0.00	92.	1010.	2 NAD-SFC NoSubs
7	2	17	48	5	-2.8	0.085	-9.000	-9.000	-999.	59.	19.5	0.0800	0.72	1.00	1.00	301.0	15.0	283.1	2.0	0	0.00	94.	1010.	2 NAD-SFC NoSubs
7	2	17	48	6	-2.2	0.073	-9.000	-9.000	-999.	48.	16.6	0.0200	0.72	1.00	1.00	247.0	15.0	282.5	2.0	0	0.00	95.	1010.	2 NAD-SFC NoSubs
7	2	17	48	7	-2.2	0.074	-9.000	-9.000	-999.	48.	16.6	0.0200	0.72	1.00	1.00	255.0	15.0	281.4	2.0	0	0.00	96.	1010.	2 NAD-SFC NoSubs
7	2	17	48	8	-0.4	0.046	-9.000	-9.000	-999.	24.	20.6	0.0950	0.72	0.44	0.50	341.0	15.0	281.2	2.0	0	0.00	94.	1010.	2 NAD-SFC NoSubs
7	2	17	48	9	45.1	0.077	0.482	0.013	90.	52.	-1.0	0.0800	0.72	0.27	0.50	318.0	15.0	284.4	2.0	0	0.00	77.	1010.	2 NAD-SFC NoSubs
7	2	17	48	10	91.1	0.130	0.838	0.010	233.	113.	-2.2	0.0800	0.72	0.21	1.00	311.0	15.0	287.5	2.0	0	0.00	63.	1010.	2 NAD-SFC NoSubs
7	2	17	48	11	124.2	0.181	1.089	0.008	374.	186.	-4.3	0.0950	0.72	0.20	1.50	355.0	15.0	289.9	2.0	0	0.00	56.	1009.	2 NAD-SFC NoSubs
7	2	17	48	12	142.8	0.269	1.264	0.007	508.	336.	-12.3	0.0960	0.72	0.19	2.60	4.0	15.0	291.8	2.0	0	0.00	51.	1008.	2 NAD-SFC NoSubs
7	2	17	48	13	146.5	-9.000	-9.000	-9.000	621.	-999.	-99999.0	0.0471	0.72	0.19	0.00	0.0	15.0	293.6	2.0	0	0.00	47.	1007.	2 NAD-SFC NoSubs
7	2	17	48	14	135.0	-9.000	-9.000	-9.000	749.	-999.	-99999.0	0.0471	0.72	0.19	0.00	0.0	15.0	294.9	2.0	0	0.00	41.	1007.	2 NAD-SFC NoSubs
7	2	17	48	15	108.3	-9.000	-9.000	-9.000	856.	-999.	-99999.0	0.0471	0.72	0.20	0.00	0.0	15.0	295.2	2.0	0	0.00	41.	1006.	2 NAD-SFC NoSubs
7	2	17	48	16	67.6	-9.000	-9.000	-9.000	915.	-999.	-99999.0	0.0471	0.72	0.24	0.00	0.0	15.0	294.6	2.0	0	0.00	49.	1006.	2 NAD-SFC NoSubs
7	2	17	48	17	16.4	0.377	0.751	0.006	925.	555.	-291.4	0.0960	0.72	0.35	4.60	9.0	15.0	292.8	2.0	0	0.00	59.	1005.	2 NAD-SFC NoSubs
7	2	17	48	18	-32.3	0.308	-9.000	-9.000	-999.	412.	80.9	0.0960	0.72	0.71	4.10	19.0	15.0	291.2	2.0	0	0.00	63.	1005.	2 NAD-SFC NoSubs
7	2	17	48	19	-28.6	0.268	-9.000	-9.000	-999.	334.	60.5	0.0960	0.72	1.00	3.60	24.0	15.0	290.8	2.0	0	0.00	63.	1005.	2 NAD-SFC NoSubs
7	2	17	48	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	290.2	2.0	0	0.00	63.	1005.	2 NAD-SFC NoSubs
7	2	17	48	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	290.0	2.0	0	0.00	61.	1005.	2 NAD-SFC NoSubs
7	2	17	48	22	-10.6	0.150	-9.000	-9.000	-999.	140.	28.8	0.0960	0.72	1.00	2.10	22.0	15.0	289.5	2.0	0	0.00	61.	1005.	2 NAD-SFC NoSubs
7	2	17	48	23	-5.4	0.108	-9.000	-9.000	-999.	86.	20.9	0.0950	0.72	1.00	1.50	353.0	15.0	288.8	2.0	0	0.00	65.	1005.	2 NAD-SFC NoSubs
7	2	17	48	24	-5.2	0.105	-9.000	-9.000	-999.	82.	20.0	0.0800	0.72	1.00	1.50	326.0	15.0	288.0	2.0	0	0.00	67.	1004.	2 NAD-SFC NoSubs
7	2	18	49	1	-15.6	0.182	-9.000	-9.000	-999.	187.	34.8	0.0800	0.72	1.00	2.60	323.0	15.0	287.2	2.0	0	0.00	72.	1004.	2 NAD-SFC NoSubs
7	2	18	49	2	-28.9	0.268	-9.000	-9.000	-999.	332.	59.4	0.0950	0.72	1.00	3.60	333.0	15.0	286.8	2.0	0	0.00	76.	1004.	2 NAD-SFC NoSubs

7	2	18	49	3	-28.9	0.268	-9.000	-9.000	-999.	332.	59.3	0.0950	0.72	1.00	3.60	333.0	15.0	286.1	2.0	0	0.00	81.	1003.	2	NAD-SFC	NoSubs
7	2	18	49	4	-22.5	0.220	-9.000	-9.000	-999.	249.	42.5	0.0800	0.72	1.00	3.10	324.0	15.0	285.6	2.0	0	0.00	83.	1003.	2	NAD-SFC	NoSubs
7	2	18	49	5	-22.5	0.220	-9.000	-9.000	-999.	248.	42.5	0.0800	0.72	1.00	3.10	317.0	15.0	285.2	2.0	0	0.00	83.	1003.	2	NAD-SFC	NoSubs
7	2	18	49	6	-22.5	0.220	-9.000	-9.000	-999.	248.	42.5	0.0800	0.72	1.00	3.10	320.0	15.0	285.1	2.0	0	0.00	83.	1003.	2	NAD-SFC	NoSubs
7	2	18	49	7	-15.4	0.182	-9.000	-9.000	-999.	187.	35.2	0.0800	0.72	1.00	2.60	320.0	15.0	285.1	2.0	0	0.00	83.	1003.	3	NAD-SFC	NoSubs
7	2	18	49	8	-2.5	0.153	-9.000	-9.000	-999.	144.	131.4	0.0800	0.72	0.44	2.10	324.0	15.0	285.1	2.0	0	0.00	83.	1003.	3	NAD-SFC	NoSubs
7	2	18	49	9	48.0	0.202	0.551	0.008	124.	218.	-15.4	0.0800	0.72	0.27	2.10	328.0	15.0	285.8	2.0	0	0.00	81.	1002.	3	NAD-SFC	NoSubs
7	2	18	49	10	93.0	0.295	0.812	0.005	206.	385.	-24.8	0.0950	0.72	0.21	3.10	348.0	15.0	286.8	2.0	0	0.00	77.	1002.	3	NAD-SFC	NoSubs
7	2	18	49	11	125.3	0.302	1.087	0.005	366.	399.	-19.7	0.0950	0.72	0.20	3.10	349.0	15.0	287.4	2.0	0	0.00	74.	1002.	3	NAD-SFC	NoSubs
7	2	18	49	12	143.3	0.306	1.309	0.005	559.	406.	-17.8	0.0950	0.72	0.19	3.10	347.0	15.0	288.2	2.0	0	0.00	67.	1001.	3	NAD-SFC	NoSubs
7	2	18	49	13	146.4	0.343	1.445	0.005	735.	483.	-24.6	0.0950	0.72	0.19	3.60	336.0	15.0	288.8	2.0	0	0.00	65.	1000.	3	NAD-SFC	NoSubs
7	2	18	49	14	134.5	0.377	1.497	0.005	890.	556.	-35.6	0.0950	0.72	0.19	4.10	337.0	15.0	288.8	2.0	0	0.00	67.	999.	3	NAD-SFC	NoSubs
7	2	18	49	15	107.1	0.335	1.442	0.005	999.	467.	-31.3	0.0950	0.72	0.20	3.60	351.0	15.0	288.6	2.0	0	0.00	73.	999.	4	NAD-SFC	NoSubs
7	2	18	49	16	67.7	0.252	1.267	0.005	1071.	307.	-21.1	0.0950	0.72	0.24	2.60	346.0	15.0	288.2	2.0	0	0.00	79.	998.	4	NAD-SFC	NoSubs
7	2	18	49	17	18.5	0.194	0.828	0.005	1088.	206.	-35.0	0.0960	0.72	0.35	2.10	9.0	15.0	287.8	2.0	0	0.00	83.	998.	4	NAD-SFC	NoSubs
7	2	18	49	18	8.7	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	0.70	0.00	0.0	15.0	287.1	2.0	0	0.25	87.	998.	5	NAD-SFC	NoSubs
7	2	18	49	19	-1.1	0.070	-9.000	-9.000	-999.	44.	28.0	0.0800	0.72	1.00	0.50	300.0	15.0	286.8	2.0	0	0.25	89.	998.	5	NAD-SFC	NoSubs
7	2	18	49	20	-3.0	0.091	-9.000	-9.000	-999.	66.	22.7	0.0420	0.72	1.00	1.50	274.0	15.0	286.5	2.0	0	0.00	89.	999.	10	NAD-SFC	NoSubs
7	2	18	49	21	-5.8	0.114	-9.000	-9.000	-999.	93.	23.1	0.0200	0.72	1.00	2.10	258.0	15.0	286.2	2.0	0	0.00	89.	999.	8	NAD-SFC	NoSubs
7	2	18	49	22	-10.3	0.142	-9.000	-9.000	-999.	129.	24.9	0.0200	0.72	1.00	2.60	263.0	15.0	286.0	2.0	0	0.00	88.	999.	4	NAD-SFC	NoSubs
7	2	18	49	23	-18.3	0.195	-9.000	-9.000	-999.	206.	36.0	0.0420	0.72	1.00	3.10	272.0	15.0	285.8	2.0	0	0.00	86.	999.	3	NAD-SFC	NoSubs
7	2	18	49	24	-24.1	0.229	-9.000	-9.000	-999.	262.	44.3	0.0420	0.72	1.00	3.60	295.0	15.0	285.4	2.0	0	0.00	84.	999.	3	NAD-SFC	NoSubs
7	2	19	50	1	-26.7	0.262	-9.000	-9.000	-999.	323.	60.3	0.0420	0.72	1.00	4.10	299.0	15.0	284.2	2.0	0	0.00	81.	999.	4	NAD-SFC	NoSubs
7	2	19	50	2	-16.5	0.196	-9.000	-9.000	-999.	210.	41.0	0.0420	0.72	1.00	3.10	299.0	15.0	283.4	2.0	0	0.00	79.	999.	7	NAD-SFC	NoSubs
7	2	19	50	3	-9.2	0.165	-9.000	-9.000	-999.	161.	43.6	0.0420	0.72	1.00	2.60	288.0	15.0	282.8	2.0	0	0.00	79.	1000.	10	NAD-SFC	NoSubs
7	2	19	50	4	-11.1	0.199	-9.000	-9.000	-999.	213.	63.3	0.0420	0.72	1.00	3.10	286.0	15.0	282.9	2.0	0	0.00	78.	1000.	10	NAD-SFC	NoSubs
7	2	19	50	5	-20.9	0.230	-9.000	-9.000	-999.	264.	51.5	0.0420	0.72	1.00	3.60	289.0	15.0	282.9	2.0	0	0.00	77.	1000.	6	NAD-SFC	NoSubs
7	2	19	50	6	-23.5	0.229	-9.000	-9.000	-999.	263.	45.6	0.0420	0.72	1.00	3.60	278.0	15.0	282.6	2.0	0	0.00	76.	1001.	4	NAD-SFC	NoSubs
7	2	19	50	7	-24.4	0.229	-9.000	-9.000	-999.	262.	43.7	0.0420	0.72	1.00	3.60	280.0	15.0	281.8	2.0	0	0.00	76.	1002.	3	NAD-SFC	NoSubs
7	2	19	50	8	-4.8	0.348	-9.000	-9.000	-999.	492.	785.1	0.0800	0.72	0.43	4.60	317.0	15.0	282.5	2.0	0	0.00	67.	1002.	3	NAD-SFC	NoSubs
7	2	19	50	9	48.8	0.472	0.729	0.005	284.	778.	-192.8	0.0950	0.72	0.26	5.70	334.0	15.0	284.0	2.0	0	0.00	55.	1003.	3	NAD-SFC	NoSubs
7	2	19	50	10	93.9	0.441	1.056	0.005	448.	703.	-81.4	0.0950	0.72	0.21	5.10	341.0	15.0	285.2	2.0	0	0.00	48.	1003.	3	NAD-SFC	NoSubs
7	2	19	50	11	126.4	0.375	1.308	0.005	634.	555.	-37.5	0.0950	0.72	0.19	4.10	330.0	15.0	286.5	2.0	0	0.00	43.	1003.	3	NAD-SFC	NoSubs
7	2	19	50	12	144.4	0.379	1.601	0.005	1018.	560.	-33.7	0.0950	0.72	0.19	4.10	333.0	15.0	287.4	2.0	0	0.00	40.	1003.	3	NAD-SFC	NoSubs
7	2	19	50	13	147.5	0.380	1.715	0.006	1226.	561.	-33.2	0.0950	0.72	0.19	4.10	332.0	15.0	288.2	2.0	0	0.00	37.	1003.	3	NAD-SFC	NoSubs
7	2	19	50	14	135.7	0.377	1.726	0.006	1359.	556.	-35.4	0.0950	0.72	0.19	4.10	332.0	15.0	288.8	2.0	0	0.00	36.	1003.	3	NAD-SFC	NoSubs
7	2	19	50	15	109.2	0.360	1.625	0.006	1407.	519.	-38.3	0.0800	0.72	0.20	4.10	327.0	15.0	289.1	2.0	0	0.00	36.	1003.	3	NAD-SFC	NoSubs
7	2	19	50	16	68.9	0.350	1.403	0.006	1435.	497.	-55.7	0.0800	0.72	0.24	4.10	327.0	15.0	288.8	2.0	0	0.00	37.	1003.	3	NAD-SFC	NoSubs
7	2	19	50	17	18.6	0.258	0.908	0.006	1443.	319.	-82.9	0.0800	0.72	0.34	3.10	314.0	15.0	288.2	2.0	0	0.00	46.	1003.	3	NAD-SFC	NoSubs
7	2	19	50	18	-30.3	0.297	-9.000	-9.000	-999.	387.	77.1	0.0800	0.72	0.68	4.10	307.0	15.0	287.1	2.0	0	0.00	48.	1004.	3	NAD-SFC	NoSubs
7	2	19	50	19	-31.3	0.296	-9.000	-9.000	-999.	387.	74.4	0.0800	0.72	1.00	4.10	322.0	15.0	285.8	2.0	0	0.00	51.	1005.	3	NAD-SFC	NoSubs
7	2	19	50	20	-22.3	0.221	-9.000	-9.000	-999.	251.	43.1	0.0800	0.72	1.00	3.10	320.0	15.0	284.9	2.0	0	0.00	53.	1006.	3	NAD-SFC	NoSubs
7	2	19	50	21	-15.5	0.182	-9.000	-9.000	-999.	187.	35.1	0.0800	0.72	1.00	2.60	318.0	15.0	284.1	2.0	0	0.00	56.	1006.	3	NAD-SFC	NoSubs
7	2	19	50	22	-4.4	0.095	-9.000	-9.000	-999.	73.	17.4	0.0420	0.72	1.00	1.50	299.0	15.0	283.2	2.0	0	0.00	58.	1007.	2	NAD-SFC	NoSubs
7	2	19	50	23	-2.5	0.079	-9.000	-9.000	-999.	53.	18.0	0.0420	0.72	1.00	1.00	287.0	15.0	282.5	2.0	0	0.00	59.	1008.	2	NAD-SFC	NoSubs
7	2	19	50	24	-2.5	0.079	-9.000	-9.000	-999.	53.	18.0	0.0420	0.72	1.00	1.00	278.0	15.0	281.8	2.0	0	0.00	61.	1008.	2	NAD-SFC	NoSubs
7	2	20	51	1	-4.5	0.095	-9.000	-9.000	-999.	70.	17.3	0.0420	0.72	1.00	1.50	278.0	15.0	281.2	2.0	0	0.00	62.	1008.	2	NAD-SFC	NoSubs
7	2	20	51	2	-4.5	0.095	-9.000	-9.000	-999.	70.	17.3	0.0420	0.72	1.00	1.50	293.0	15.0	280.6	2.0	0	0.00	65.	1009.	2	NAD-SFC	NoSubs
7	2	20	51	3	-5.3	0.105	-9.000	-9.000	-999.	82.	19.8	0.0800	0.72	1.00	1.50	314.0	15.0	279.9	2.0	0	0.00	67.	1009.	2	NAD-SFC	NoSubs
7	2	20	51	4	-5.3	0.105	-9.000	-9.000	-999.	82.	19.8	0.0800	0.72	1.00	1.50	311.0	15.0	279.2	2.0	0	0.00	70.	1009.	2	NAD-SFC	NoSubs
7	2	20	51	5	-3.8	0.086	-9.000	-9.000	-999.	61.	15.2	0.0200	0.72	1.00	1.50	258.0	15.0	278.9	2.0	0	0.00	71.	1009.	2	NAD-SFC	NoSubs
7	2	20	51	6	-10.9	0.142	-9.000	-9.000	-999.	128.	23.6	0.0200	0.72	1.00	2.60	263.0	15.0	278.8	2.0	0	0.00	70.	1010.	2	NAD-SFC	NoSubs
7	2	20	51	7	-13.2	0.161	-9.000	-9.000	-999.	155.	28.5	0.0420	0.72	1.00	2.60	282.0	15.0	278.5	2.0	0	0.00	68.	1011.	2	NAD-SFC	NoSubs
7	2	20	51	8	-2.1	0.107	-9.000	-9.000	-999.	85.	52.4	0.0800	0.72	0.42	1.50	315.0	15.0	278.9	2.0	0	0.00	68.	1011.	2	NAD-SFC	NoSubs
7	2	20	51	9	48.1	0.124	0.648	0.009	203.	105.	-3.6	0.0950	0.72	0.26	1.00	342.0	15.0	280.8	2.0	0	0.00	63.	1011.	2	NAD-SFC	NoSubs
7	2	20	51	10	93.7	-9.000	-9.000	-9.000	345.	-999.	-99999.0	0.0471	0.72	0.21	0.00	0.0	15.0	282.6	2.0	0	0.00	54.	1011.	2	NAD-SFC	NoSubs
7	2	20	51	11	126.5	-9.000	-9.000	-9.000	490.	-999.	-99999.0	0.0471	0.72	0.19	0.00	0.0	15.0	284.1	2.0	0	0.00	50.	1011.	2	NAD-SFC	NoSubs
7	2	20	51	12	144.7	0.080	1.356	0.009	622.	55.	-1.0	0.0420	0.72	0.19	0.50	292.0	15.0	285.5	2.0	0	0.00	44.	1011.	2	NAD-SFC	NoSubs
7	2	20	51	13	147.9	0.081	1.438	0.009	724.	55.	-1.0	0.0420	0.72	0.19	0.50	298.0	15.0	286.6	2.0	0	0.00	40.	1010.	2	NAD-SFC	NoSubs
7	2	20	51	14	136.1	0.090	1.448	0.009	804.	64.	-1.0	0.0800	0.72	0.19	0.50	310.0	15.0	287.5	2.0	0	0.00	38.	1009.	2	NAD-SFC	NoSubs
7	2	20	51	15	109.4	0.137	1.378	0.009	862.	122.	-2.1	0.0950	0.72	0.20	1.00	334.0	15.0	288.1	2.0	0	0.00	36.	1009.	2	NAD-SFC	NoSubs
7	2	20	51	16	68.8	0.170	1.197	0.009	897.	168.	-6.4	0.0950	0.72	0.24	1.50	346.0	15.0	288.2	2.0	0	0.00	35.	1008.	2	NAD-SFC	NoSubs
7	2	20	51	17	17.9	0.193	0.767	0.009	906.	204.	-36.3	0.0960	0.72	0.34	2.10	8.0	15.0	287.9	2.0	0	0.00	40.	1008.	2	NAD-SFC	NoSubs
7	2	20	51	18	-9.3	0.139	-9.000	-9.000	-999.	125.	26.0	0.0650	0.72	0.67	2.10	37.0	15.0	286.8	2.0	0	0.00	45.	1008.	2	NAD-SFC	NoSubs
7	2	20	51	19	-4.4	0.094	-9.000	-9.000	-999.	70.	17.2	0.0400	0.72	1.00	1.50	65.0	15.0	285.6	2.0	0	0.00	51.	1009.	2	NAD-SFC	NoSubs
7	2	20	51	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	284.2	2.0	0	0.00	57.	1009.	3	NAD-SFC	NoSubs
7	2	20	51	21	-0.9	0.065	-9.000	-9.000	-999.	39.	25.8	0.0220	0.72	1.00	0.50	235.0	15.0	283.1	2.0	0	0.00	62.	1009.	3	NAD-SFC	NoSubs
7	2	20	51	22	-3.7	0.086	-9.000	-9.000	-999.	60.	15.3	0.0200	0.72	1.00	1.50	256.0	15.0	282.1	2.0	0	0.00	69.	1009.	3	NAD-SFC	NoSubs
7	2	20	51	23	-10.7	0.142	-9.000	-9.000	-999.	128.	24.1	0.0200	0.72	1.00	2.60	256.0	15.0	281.2	2.0	0	0.00	80.	1010.	3	NAD-SFC	NoSubs
7	2	20	51	24	-10.7	0.142	-9.000	-9.000	-999.	128.	24.1	0.0200	0.72	1.00	2.60	260.0	15.0	280.6	2.0	0	0.00	92.	1009.	3	NAD-SFC	NoSubs
7	2	21	52	1	-10.7	0.142	-9.000	-9.000	-999.	128.	24.0	0.0200	0.72	1.00	2.60	260.0	15.0	280.1	2.0	0	0.00	99.	1010.	3	NAD-SFC	NoSubs
7	2	21	52	2	-8.4	0.128	-9.000	-9.000	-999.	110.	22.4	0.0420	0.72	1.00	2.10	274.0	15.0	279.1	2.0	0	0.00	100.	1010.	2	NAD-SFC	NoSubs
7	2	21	52	3	-13.1	0.161	-9.000	-9.000	-999.	155.	28.5	0.0420	0.72	1.00	2.60	288.0	15.0	278.8	2.0	0	0.00	100.	1010.	2	NAD-SFC	NoSubs
7	2	21	52	4	-8.4	0.128	-9.000	-9.000	-999.	110.	22.3	0.0420	0.72	1.00	2.10	298.0	15.0	278.8	2.0	0	0.00	100.	1010.	2	NAD-SFC	NoSubs
7	2	21	52	5	-10.2	0.145	-9.000	-9.000	-999.	132.	26.7	0.0800	0.72	1.00	2.10	304.0	15.0	278.8	2.0	0	0.00	100.	1010.	2	NAD-SFC	NoSubs
7	2	21	52	6	-4.5	0.095	-9.000	-9.000	-999.	71.	17.3	0.0420	0.72	1.00	1.50	288.0	15.0	278.8	2.0	0	0.00	100.	1010.	2	NAD-SFC	NoSubs
7	2	21	52	7	-1.1	0.070	-9.000	-9.000	-999.	44.	27.7	0.0420	0.72	1.00	0.50	274.0	15.0	278.6	2.0	0	0.00	100.	1010.	2	NAD-SFC	NoSubs

7	2	21	52	8	24.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	0.42	0.00	0.0	15.0	278.4	2.0	0	0.00	100.	1010.	2	NAD-SFC	NoSubs
7	2	21	52	9	49.0	-9.000	-9.000	-9.000	175.	-999.	-99999.0	0.0471	0.72	0.26	0.00	0.0	15.0	278.4	2.0	0	0.00	100.	1009.	2	NAD-SFC	NoSubs
7	2	21	52	10	94.4	-9.000	-9.000	-9.000	292.	-999.	-99999.0	0.0471	0.72	0.21	0.00	0.0	15.0	278.9	2.0	0	0.00	100.	1009.	2	NAD-SFC	NoSubs
7	2	21	52	11	127.1	-9.000	-9.000	-9.000	424.	-999.	-99999.0	0.0471	0.72	0.19	0.00	0.0	15.0	280.8	2.0	0	0.00	89.	1008.	2	NAD-SFC	NoSubs
7	2	21	52	12	145.6	-9.000	-9.000	-9.000	596.	-999.	-99999.0	0.0471	0.72	0.19	0.00	0.0	15.0	283.9	2.0	0	0.00	69.	1007.	2	NAD-SFC	NoSubs
7	2	21	52	13	149.0	-9.000	-9.000	-9.000	713.	-999.	-99999.0	0.0471	0.72	0.19	0.00	0.0	15.0	285.8	2.0	0	0.00	57.	1006.	2	NAD-SFC	NoSubs
7	2	21	52	14	137.1	0.090	1.448	0.009	794.	65.	-1.0	0.0800	0.72	0.19	0.50	323.0	15.0	286.8	2.0	0	0.00	53.	1005.	2	NAD-SFC	NoSubs
7	2	21	52	15	110.3	0.179	1.380	0.009	854.	182.	-4.7	0.0950	0.72	0.20	1.50	338.0	15.0	287.0	2.0	0	0.00	53.	1004.	2	NAD-SFC	NoSubs
7	2	21	52	16	70.7	-9.000	-9.000	-9.000	889.	-999.	-99999.0	0.0471	0.72	0.23	0.00	0.0	15.0	286.8	2.0	0	0.00	59.	1004.	3	NAD-SFC	NoSubs
7	2	21	52	17	20.0	0.268	0.795	0.008	898.	332.	-85.8	0.0960	0.72	0.33	3.10	8.0	15.0	285.9	2.0	0	0.00	63.	1004.	3	NAD-SFC	NoSubs
7	2	21	52	18	-23.2	0.229	-9.000	-9.000	-999.	264.	46.8	0.0960	0.72	0.67	3.10	21.0	15.0	285.1	2.0	0	0.00	66.	1005.	3	NAD-SFC	NoSubs
7	2	21	52	19	-23.7	0.229	-9.000	-9.000	-999.	263.	45.5	0.0960	0.72	1.00	3.10	12.0	15.0	284.8	2.0	0	0.00	67.	1005.	3	NAD-SFC	NoSubs
7	2	21	52	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	284.4	2.0	0	0.00	69.	1006.	3	NAD-SFC	NoSubs
7	2	21	52	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	283.8	2.0	0	0.00	74.	1006.	3	NAD-SFC	NoSubs
7	2	21	52	22	-28.7	0.268	-9.000	-9.000	-999.	334.	60.5	0.0960	0.72	1.00	3.60	13.0	15.0	283.2	2.0	0	0.00	77.	1006.	3	NAD-SFC	NoSubs
7	2	21	52	23	-21.0	0.211	-9.000	-9.000	-999.	234.	40.4	0.0650	0.72	1.00	3.10	32.0	15.0	282.9	2.0	0	0.00	79.	1006.	3	NAD-SFC	NoSubs
7	2	21	52	24	-9.3	0.139	-9.000	-9.000	-999.	126.	25.7	0.0650	0.72	1.00	2.10	36.0	15.0	282.6	2.0	0	0.00	80.	1006.	3	NAD-SFC	NoSubs
7	2	22	53	1	-4.9	0.101	-9.000	-9.000	-999.	77.	19.1	0.0650	0.72	1.00	1.50	56.0	15.0	282.2	2.0	0	0.00	81.	1006.	3	NAD-SFC	NoSubs
7	2	22	53	2	-4.3	0.094	-9.000	-9.000	-999.	69.	17.3	0.0400	0.72	1.00	1.50	70.0	15.0	282.0	2.0	0	0.00	81.	1006.	3	NAD-SFC	NoSubs
7	2	22	53	3	-4.1	0.091	-9.000	-9.000	-999.	66.	16.5	0.0310	0.72	1.00	1.50	90.0	15.0	281.8	2.0	0	0.00	82.	1006.	3	NAD-SFC	NoSubs
7	2	22	53	4	-7.6	0.122	-9.000	-9.000	-999.	102.	21.1	0.0310	0.72	1.00	2.10	96.0	15.0	281.8	2.0	0	0.00	82.	1005.	3	NAD-SFC	NoSubs
7	2	22	53	5	-16.8	0.185	-9.000	-9.000	-999.	191.	33.7	0.0310	0.72	1.00	3.10	114.0	15.0	281.5	2.0	0	0.00	80.	1005.	4	NAD-SFC	NoSubs
7	2	22	53	6	-22.1	0.213	-9.000	-9.000	-999.	237.	39.4	0.0280	0.72	1.00	3.60	120.0	15.0	281.2	2.0	0	0.00	78.	1005.	4	NAD-SFC	NoSubs
7	2	22	53	7	-28.6	0.276	-9.000	-9.000	-999.	348.	65.9	0.0280	0.72	1.00	4.60	135.0	15.0	280.8	2.0	0	0.00	75.	1005.	4	NAD-SFC	NoSubs
7	2	22	53	8	1.9	0.264	0.098	0.005	18.	325.	-853.4	0.0280	0.72	0.41	4.10	140.0	15.0	281.8	2.0	0	0.00	71.	1005.	4	NAD-SFC	NoSubs
7	2	22	53	9	52.0	0.291	0.713	0.005	250.	377.	-42.5	0.0280	0.72	0.26	4.10	144.0	15.0	283.5	2.0	0	0.00	66.	1005.	5	NAD-SFC	NoSubs
7	2	22	53	10	89.2	0.330	1.085	0.005	513.	455.	-36.1	0.0280	0.72	0.21	4.60	137.0	15.0	285.4	2.0	0	0.00	59.	1004.	6	NAD-SFC	NoSubs
7	2	22	53	11	29.6	0.190	0.774	0.005	562.	211.	-20.7	0.0240	0.72	0.19	2.60	164.0	15.0	287.0	2.0	0	0.00	57.	1004.	10	NAD-SFC	NoSubs
7	2	22	53	12	119.6	0.169	1.438	0.005	890.	167.	-3.6	0.0650	0.72	0.19	1.50	46.0	15.0	286.9	2.0	0	0.25	64.	1003.	7	NAD-SFC	NoSubs
7	2	22	53	13	144.9	0.080	1.665	0.005	1141.	58.	-1.0	0.0420	0.72	0.19	0.50	289.0	15.0	287.8	2.0	0	0.76	62.	1003.	5	NAD-SFC	NoSubs
7	2	22	53	14	138.1	0.590	1.714	0.007	1306.	1086.	-132.7	0.0200	0.72	0.19	9.30	254.0	15.0	289.1	2.0	0	0.76	53.	1003.	4	NAD-SFC	NoSubs
7	2	22	53	15	112.8	0.523	1.631	0.007	1376.	913.	-113.3	0.0200	0.72	0.20	8.20	254.0	15.0	288.9	2.0	0	0.25	50.	1002.	3	NAD-SFC	NoSubs
7	2	22	53	16	72.4	0.283	1.418	0.007	1408.	420.	-27.9	0.0200	0.72	0.23	4.10	252.0	15.0	288.8	2.0	0	0.00	51.	1002.	3	NAD-SFC	NoSubs
7	2	22	53	17	21.5	0.329	0.947	0.007	1415.	453.	-148.2	0.0420	0.72	0.33	4.60	273.0	15.0	287.5	2.0	0	0.00	54.	1002.	3	NAD-SFC	NoSubs
7	2	22	53	18	-33.0	0.330	-9.000	-9.000	-999.	454.	97.4	0.0420	0.72	0.66	5.10	271.0	15.0	285.6	2.0	0	0.00	57.	1004.	3	NAD-SFC	NoSubs
7	2	22	53	19	-27.8	0.262	-9.000	-9.000	-999.	323.	57.6	0.0200	0.72	1.00	4.60	268.0	15.0	284.1	2.0	0	0.00	63.	1005.	3	NAD-SFC	NoSubs
7	2	22	53	20	-24.8	0.232	-9.000	-9.000	-999.	268.	45.0	0.0200	0.72	1.00	4.10	266.0	15.0	282.8	2.0	0	0.00	72.	1006.	3	NAD-SFC	NoSubs
7	2	22	53	21	-20.9	0.202	-9.000	-9.000	-999.	218.	35.2	0.0200	0.72	1.00	3.60	256.0	15.0	281.9	2.0	0	0.00	79.	1006.	3	NAD-SFC	NoSubs
7	2	22	53	22	-21.0	0.202	-9.000	-9.000	-999.	218.	35.2	0.0200	0.72	1.00	3.60	249.0	15.0	281.2	2.0	0	0.00	82.	1007.	3	NAD-SFC	NoSubs
7	2	22	53	23	-21.0	0.202	-9.000	-9.000	-999.	218.	35.1	0.0200	0.72	1.00	3.60	255.0	15.0	280.6	2.0	0	0.00	84.	1007.	3	NAD-SFC	NoSubs
7	2	22	53	24	-21.0	0.202	-9.000	-9.000	-999.	218.	35.1	0.0200	0.72	1.00	3.60	257.0	15.0	279.9	2.0	0	0.00	85.	1007.	3	NAD-SFC	NoSubs
7	2	23	54	1	-15.2	0.172	-9.000	-9.000	-999.	171.	30.2	0.0200	0.72	1.00	3.10	266.0	15.0	279.8	2.0	0	0.00	86.	1007.	4	NAD-SFC	NoSubs
7	2	23	54	2	-18.3	0.195	-9.000	-9.000	-999.	207.	36.3	0.0420	0.72	1.00	3.10	288.0	15.0	279.8	2.0	0	0.00	85.	1007.	4	NAD-SFC	NoSubs
7	2	23	54	3	-27.0	0.259	-9.000	-9.000	-999.	316.	57.6	0.0800	0.72	1.00	3.60	310.0	15.0	279.5	2.0	0	0.00	86.	1008.	4	NAD-SFC	NoSubs
7	2	23	54	4	-27.1	0.259	-9.000	-9.000	-999.	316.	57.5	0.0800	0.72	1.00	3.60	319.0	15.0	279.0	2.0	0	0.00	88.	1008.	4	NAD-SFC	NoSubs
7	2	23	54	5	-31.1	0.296	-9.000	-9.000	-999.	387.	75.3	0.0800	0.72	1.00	4.10	311.0	15.0	278.4	2.0	0	0.00	89.	1009.	4	NAD-SFC	NoSubs
7	2	23	54	6	-27.2	0.259	-9.000	-9.000	-999.	316.	57.2	0.0800	0.72	1.00	3.60	313.0	15.0	277.8	2.0	0	0.00	90.	1010.	4	NAD-SFC	NoSubs
7	2	23	54	7	-22.3	0.221	-9.000	-9.000	-999.	249.	43.4	0.0800	0.72	1.00	3.10	315.0	15.0	277.8	2.0	0	0.00	90.	1011.	4	NAD-SFC	NoSubs
7	2	23	54	8	3.5	0.367	0.158	0.005	40.	533.	-1253.0	0.0950	0.72	0.41	4.60	341.0	15.0	279.1	2.0	0	0.00	84.	1011.	5	NAD-SFC	NoSubs
7	2	23	54	9	52.7	0.392	0.823	0.005	383.	589.	-103.3	0.0950	0.72	0.26	4.60	352.0	15.0	280.4	2.0	0	0.00	74.	1012.	5	NAD-SFC	NoSubs
7	2	23	54	10	66.2	0.433	1.028	0.005	593.	684.	-110.7	0.0950	0.72	0.21	5.10	341.0	15.0	281.5	2.0	0	0.00	63.	1012.	8	NAD-SFC	NoSubs
7	2	23	54	11	28.8	0.407	0.808	0.005	663.	623.	-211.0	0.0800	0.72	0.19	5.10	329.0	15.0	282.2	2.0	0	0.00	58.	1012.	10	NAD-SFC	NoSubs
7	2	23	54	12	142.2	0.437	1.531	0.005	912.	693.	-53.0	0.0800	0.72	0.19	5.10	326.0	15.0	282.9	2.0	0	0.00	53.	1011.	5	NAD-SFC	NoSubs
7	2	23	54	13	149.7	0.481	1.690	0.005	1164.	799.	-66.9	0.0800	0.72	0.19	5.70	326.0	15.0	283.6	2.0	0	0.00	47.	1011.	4	NAD-SFC	NoSubs
7	2	23	54	14	139.4	0.531	1.742	0.005	1369.	926.	-96.6	0.0950	0.72	0.19	6.20	345.0	15.0	284.1	2.0	0	0.00	43.	1011.	3	NAD-SFC	NoSubs
7	2	23	54	15	112.7	0.562	1.674	0.005	1502.	1010.	-142.0	0.0950	0.72	0.20	6.70	336.0	15.0	284.2	2.0	0	0.00	42.	1011.	3	NAD-SFC	NoSubs
7	2	23	54	16	72.3	0.553	1.469	0.005	1582.	988.	-210.9	0.0950	0.72	0.23	6.70	337.0	15.0	284.2	2.0	0	0.00	43.	1011.	3	NAD-SFC	NoSubs
7	2	23	54	17	21.4	0.331	0.983	0.005	1601.	505.	-152.6	0.0800	0.72	0.33	4.10	326.0	15.0	283.4	2.0	0	0.00	55.	1012.	3	NAD-SFC	NoSubs
7	2	23	54	18	-30.0	0.297	-9.000	-9.000	-999.	389.	78.5	0.0800	0.72	0.65	4.10	326.0	15.0	282.1	2.0	0	0.00	61.	1012.	3	NAD-SFC	NoSubs
7	2	23	54	19	-29.0	0.268	-9.000	-9.000	-999.	333.	59.8	0.0950	0.72	1.00	3.60	335.0	15.0	281.1	2.0	0	0.00	65.	1012.	3	NAD-SFC	NoSubs
7	2	23	54	20	-23.9	0.228	-9.000	-9.000	-999.	263.	45.0	0.0950	0.72	1.00	3.10	342.0	15.0	280.5	2.0	0	0.00	67.	1013.	3	NAD-SFC	NoSubs
7	2	23	54	21	-5.5	0.108	-9.000	-9.000	-999.	95.	20.8	0.0950	0.72	1.00	1.50	342.0	15.0	279.9	2.0	0	0.00	69.	1013.	3	NAD-SFC	NoSubs
7	2	23	54	22	-1.0	0.067	-9.000	-9.000	-999.	42.	26.7	0.0310	0.72	1.00	0.50	100.0	15.0	279.2	2.0	0	0.00	70.	1014.	3	NAD-SFC	NoSubs
7	2	23	54	23	-4.0	0.090	-9.000	-9.000	-999.	64.	16.1	0.0280	0.72	1.00	1.50	138.0	15.0	278.6	2.0	0	0.00	72.	1014.	3	NAD-SFC	NoSubs
7	2	23	54	24	-7.3	0.117	-9.000	-9.000	-999.	96.	19.7	0.0240	0.72	1.00	2.10	153.0	15.0	277.9	2.0	0	0.00	75.	1014.	3	NAD-SFC	NoSubs
7	2	24	55	1	-16.3	0.177	-9.000	-9.000	-999.	178.	30.7	0.0240	0.72	1.00	3.10	153.0	15.0	277.5	2.0	0	0.00	77.	1014.	3	NAD-SFC	NoSubs
7	2	24	55	2	-16.0	0.177	-9.000	-9.000	-999.	179.	31.3	0.0240	0.72	1.00	3.10	152.0	15.0	277.1	2.0	0	0.00	78.	1014.	4	NAD-SFC	NoSubs
7	2	24	55	3	-11.1	0.146	-9.000	-9.000	-999.	134.	25.5	0.0240	0.72	1.00	2.60	162.0	15.0	276.8	2.0	0	0.00	77.	1014.	4	NAD-SFC	NoSubs
7	2	24	55	4	-3.9	0.088	-9.000	-9.000	-999.	63.	15.7	0.0240	0.72	1.00	1.50	151.0	15.0	276.5	2.0	0	0.00	77.	1014.	3	NAD-SFC	NoSubs
7	2	24	55	5	-2.3	0.076	-9.000	-9.000	-999.	50.	17.2	0.0280	0.72	1.00	1.00	124.0	15.0	276.0	2.0	0	0.00	79.	1014.	3	NAD-SFC	NoSubs
7	2	24	55	6	-4.2	0.091	-9.000	-9.000	-999.	66.	16.4	0.0310	0.72	1.00	1.50	117.0	15.0	275.5	2.0	0	0.00	81.	1015.	3	NAD-SFC	NoSubs
7	2	24	55	7	-11.9	0.150	-9.000	-9.000	-999.	139.	25.4	0.0280	0.72	1.00	2.60	126.0	15.0	275.2	2.0	0	0.00	81.	1015.	2	NAD-SFC	NoSubs
7	2	24	55	8	0.1	0.134	0.023	0.005	4.	118.	-2231.5	0.0280	0.72	0.40	2.10	149.0	15.0	276.8	2.0	0	0.00	72.	1015.	2	NAD-SFC	NoSubs
7	2	24	55	9	53.1	0.098	0.621	0.005	163.	74.	-1.6	0.0220	0.72	0.25	1.00	181.0	15.0	279.2	2.0	0	0.00	62.	1015.	2	NAD-SFC	NoSubs
7	2	24	55	10	98.8	-9.000	-9.000	-9.000	549.	-999.	-99999.0	0.0471	0.72	0.21	0.00	0.0	15.0	281.0	2.0	0	0.00	58.	1015.	2	NAD-SFC	NoSubs
7	2	24	55	11	131.4	-9.000	-9.000	-9.000	781.	-999.	-99999.0	0.0471	0.72	0.19	0.00	0.0	15.0	282.5	2.0	0	0.00	53.	1014.	2	NAD-SFC	NoSubs
7	2	24	55	12	149.5	-9.000	-9.000	-9.000	950.	-999.	-99999.0	0.0471	0.72	0.19	0.00	0.0	15.0	283.9	2.0	0	0.00	48.	1013.	2	NAD-SFC	NoSubs

7	2	24	55	13	152.7	0.081	1.644	0.008	1052.	55.	-1.0	0.0420	0.72	0.19	0.50	291.0	15.0	285.1	2.0	0	0.00	44.	1012.	2	NAD-SFC	NoSubs
7	2	24	55	14	140.6	0.080	1.640	0.008	1133.	54.	-1.0	0.0420	0.72	0.19	0.50	295.0	15.0	286.0	2.0	0	0.00	41.	1011.	2	NAD-SFC	NoSubs
7	2	24	55	15	113.8	0.088	1.556	0.009	1194.	62.	-1.0	0.0800	0.72	0.20	0.50	315.0	15.0	286.6	2.0	0	0.00	39.	1010.	2	NAD-SFC	NoSubs
7	2	24	55	16	72.8	0.131	1.354	0.009	1230.	114.	-2.8	0.0960	0.72	0.23	1.00	23.0	15.0	285.8	2.0	0	0.00	44.	1010.	2	NAD-SFC	NoSubs
7	2	24	55	17	21.4	0.142	0.903	0.009	1240.	128.	-12.0	0.0650	0.72	0.32	1.50	42.0	15.0	285.4	2.0	0	0.00	46.	1009.	2	NAD-SFC	NoSubs
7	2	24	55	18	-8.0	0.127	-9.000	-9.000	-999.	109.	23.2	0.0400	0.72	0.64	2.10	64.0	15.0	284.6	2.0	0	0.00	51.	1009.	2	NAD-SFC	NoSubs
7	2	24	55	19	-2.3	0.077	-9.000	-9.000	-999.	51.	17.4	0.0310	0.72	1.00	1.00	104.0	15.0	283.5	2.0	0	0.00	56.	1010.	2	NAD-SFC	NoSubs
7	2	24	55	20	-2.2	0.074	-9.000	-9.000	-999.	48.	16.8	0.0220	0.72	1.00	1.00	204.0	15.0	282.6	2.0	0	0.00	61.	1010.	2	NAD-SFC	NoSubs
7	2	24	55	21	-1.0	0.065	-9.000	-9.000	-999.	40.	26.1	0.0220	0.72	1.00	0.50	211.0	15.0	281.9	2.0	0	0.00	65.	1010.	2	NAD-SFC	NoSubs
7	2	24	55	22	-2.2	0.074	-9.000	-9.000	-999.	48.	16.6	0.0200	0.72	1.00	1.00	255.0	15.0	281.5	2.0	0	0.00	67.	1011.	2	NAD-SFC	NoSubs
7	2	24	55	23	-2.2	0.074	-9.000	-9.000	-999.	48.	16.6	0.0200	0.72	1.00	1.00	267.0	15.0	281.2	2.0	0	0.00	70.	1011.	2	NAD-SFC	NoSubs
7	2	24	55	24	-1.1	0.069	-9.000	-9.000	-999.	43.	27.4	0.0420	0.72	1.00	0.50	287.0	15.0	280.8	2.0	0	0.00	74.	1011.	3	NAD-SFC	NoSubs
7	2	25	56	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	280.6	2.0	0	0.00	76.	1010.	3	NAD-SFC	NoSubs
7	2	25	56	2	-4.0	0.090	-9.000	-9.000	-999.	64.	16.1	0.0280	0.72	1.00	1.50	125.0	15.0	279.9	2.0	0	0.00	80.	1010.	3	NAD-SFC	NoSubs
7	2	25	56	3	-16.6	0.215	-9.000	-9.000	-999.	240.	53.9	0.0280	0.72	1.00	3.60	128.0	15.0	279.6	2.0	0	0.00	81.	1009.	8	NAD-SFC	NoSubs
7	2	25	56	4	-12.3	0.217	-9.000	-9.000	-999.	242.	74.4	0.0280	0.72	1.00	3.60	137.0	15.0	279.8	2.0	0	0.00	80.	1009.	10	NAD-SFC	NoSubs
7	2	25	56	5	-12.3	0.217	-9.000	-9.000	-999.	242.	74.5	0.0280	0.72	1.00	3.60	135.0	15.0	280.1	2.0	0	0.00	77.	1009.	10	NAD-SFC	NoSubs
7	2	25	56	6	-15.8	0.280	-9.000	-9.000	-999.	355.	124.2	0.0280	0.72	1.00	4.60	133.0	15.0	280.4	2.0	0	0.00	73.	1008.	10	NAD-SFC	NoSubs
7	2	25	56	7	-15.8	0.280	-9.000	-9.000	-999.	355.	124.3	0.0280	0.72	1.00	4.60	142.0	15.0	280.5	2.0	0	0.00	71.	1008.	10	NAD-SFC	NoSubs
7	2	25	56	8	6.2	0.268	0.192	0.005	41.	334.	-280.8	0.0280	0.72	0.40	4.10	143.0	15.0	280.6	2.0	0	0.00	74.	1008.	6	NAD-SFC	NoSubs
7	2	25	56	9	56.4	0.292	0.688	0.005	207.	379.	-39.9	0.0280	0.72	0.25	4.10	142.0	15.0	280.9	2.0	0	0.00	78.	1008.	4	NAD-SFC	NoSubs
7	2	25	56	10	92.1	0.276	0.995	0.005	385.	348.	-20.5	0.0310	0.72	0.21	3.60	116.0	15.0	282.4	2.0	0	0.25	79.	1008.	6	NAD-SFC	NoSubs
7	2	25	56	11	120.8	0.114	1.344	0.007	723.	117.	-1.1	0.0310	0.72	0.19	1.00	103.0	15.0	285.1	2.0	0	0.00	72.	1008.	6	NAD-SFC	NoSubs
7	2	25	56	12	35.1	0.154	0.903	0.006	753.	145.	-9.4	0.0800	0.72	0.19	1.50	306.0	15.0	287.2	2.0	0	0.00	62.	1007.	10	NAD-SFC	NoSubs
7	2	25	56	13	36.0	0.304	0.922	0.006	781.	402.	-69.9	0.0420	0.72	0.19	4.10	286.0	15.0	288.0	2.0	0	0.00	59.	1006.	10	NAD-SFC	NoSubs
7	2	25	56	14	115.6	0.388	1.406	0.006	864.	580.	-45.4	0.0420	0.72	0.19	5.10	290.0	15.0	288.2	2.0	0	0.00	57.	1006.	7	NAD-SFC	NoSubs
7	2	25	56	15	105.4	0.386	1.399	0.006	933.	576.	-49.1	0.0420	0.72	0.20	5.10	295.0	15.0	288.2	2.0	0	0.00	59.	1006.	6	NAD-SFC	NoSubs
7	2	25	56	16	73.7	0.284	1.263	0.006	980.	370.	-27.9	0.0420	0.72	0.23	3.60	281.0	15.0	287.8	2.0	0	0.00	66.	1005.	5	NAD-SFC	NoSubs
7	2	25	56	17	24.6	0.299	0.881	0.005	995.	392.	-97.1	0.0420	0.72	0.32	4.10	288.0	15.0	286.8	2.0	0	0.00	72.	1005.	6	NAD-SFC	NoSubs
7	2	25	56	18	-22.2	0.298	-9.000	-9.000	-999.	390.	106.8	0.0420	0.72	0.63	4.60	281.0	15.0	285.4	2.0	0	0.00	78.	1006.	7	NAD-SFC	NoSubs
7	2	25	56	19	-16.7	0.300	-9.000	-9.000	-999.	394.	144.8	0.0420	0.72	1.00	4.60	278.0	15.0	284.4	2.0	0	0.00	82.	1006.	10	NAD-SFC	NoSubs
7	2	25	56	20	-16.7	0.300	-9.000	-9.000	-999.	394.	144.4	0.0420	0.72	1.00	4.60	277.0	15.0	283.8	2.0	0	0.00	84.	1007.	10	NAD-SFC	NoSubs
7	2	25	56	21	-22.3	0.264	-9.000	-9.000	-999.	325.	73.9	0.0420	0.72	1.00	4.10	280.0	15.0	283.2	2.0	0	0.00	85.	1007.	7	NAD-SFC	NoSubs
7	2	25	56	22	-21.1	0.230	-9.000	-9.000	-999.	264.	51.5	0.0420	0.72	1.00	3.60	276.0	15.0	282.8	2.0	0	0.00	85.	1008.	6	NAD-SFC	NoSubs
7	2	25	56	23	-17.8	0.195	-9.000	-9.000	-999.	208.	37.6	0.0420	0.72	1.00	3.10	284.0	15.0	282.2	2.0	0	0.00	86.	1008.	5	NAD-SFC	NoSubs
7	2	25	56	24	-17.3	0.196	-9.000	-9.000	-999.	208.	39.0	0.0420	0.72	1.00	3.10	284.0	15.0	281.8	2.0	0	0.00	86.	1008.	6	NAD-SFC	NoSubs
7	2	26	57	1	-12.0	0.162	-9.000	-9.000	-999.	157.	31.8	0.0420	0.72	1.00	2.60	281.0	15.0	281.4	2.0	0	0.00	87.	1008.	6	NAD-SFC	NoSubs
7	2	26	57	2	-5.9	0.114	-9.000	-9.000	-999.	93.	22.9	0.0200	0.72	1.00	2.10	268.0	15.0	281.0	2.0	0	0.00	88.	1008.	8	NAD-SFC	NoSubs
7	2	26	57	3	-2.5	0.081	-9.000	-9.000	-999.	55.	18.8	0.0200	0.72	1.00	1.50	260.0	15.0	280.5	2.0	0	0.00	91.	1008.	10	NAD-SFC	NoSubs
7	2	26	57	4	-0.5	0.049	-9.000	-9.000	-999.	26.	20.7	0.0220	0.72	1.00	0.50	202.0	15.0	280.2	2.0	0	0.00	92.	1008.	10	NAD-SFC	NoSubs
7	2	26	57	5	-0.5	0.050	-9.000	-9.000	-999.	27.	21.1	0.0280	0.72	1.00	0.50	145.0	15.0	280.2	2.0	0	0.00	92.	1008.	10	NAD-SFC	NoSubs
7	2	26	57	6	-5.5	0.122	-9.000	-9.000	-999.	103.	29.7	0.0280	0.72	1.00	2.10	120.0	15.0	280.2	2.0	0	0.00	92.	1009.	10	NAD-SFC	NoSubs
7	2	26	57	7	-10.5	0.185	-9.000	-9.000	-999.	191.	54.5	0.0280	0.72	1.00	3.10	123.0	15.0	280.2	2.0	0	0.00	93.	1009.	10	NAD-SFC	NoSubs
7	2	26	57	8	-4.1	0.189	-9.000	-9.000	-999.	197.	148.1	0.0280	0.72	0.39	3.10	122.0	15.0	280.8	2.0	0	0.00	90.	1008.	10	NAD-SFC	NoSubs
7	2	26	57	9	10.2	0.152	0.268	0.005	67.	143.	-31.1	0.0280	0.72	0.25	2.10	129.0	15.0	282.0	2.0	0	0.00	81.	1008.	10	NAD-SFC	NoSubs
7	2	26	57	10	21.9	0.161	0.448	0.005	147.	154.	-16.9	0.0280	0.72	0.21	2.10	121.0	15.0	283.5	2.0	0	0.00	74.	1008.	10	NAD-SFC	NoSubs
7	2	26	57	11	30.3	0.165	0.589	0.005	242.	160.	-13.2	0.0280	0.72	0.19	2.10	120.0	15.0	284.8	2.0	0	0.00	70.	1008.	10	NAD-SFC	NoSubs
7	2	26	57	12	34.8	0.226	0.686	0.005	333.	257.	-29.7	0.0280	0.72	0.19	3.10	130.0	15.0	284.9	2.0	0	0.00	70.	1006.	10	NAD-SFC	NoSubs
7	2	26	57	13	35.6	0.226	0.746	0.005	419.	258.	-29.2	0.0280	0.72	0.19	3.10	138.0	15.0	285.1	2.0	0	0.00	71.	1006.	10	NAD-SFC	NoSubs
7	2	26	57	14	32.5	0.225	0.781	0.005	524.	256.	-31.3	0.0280	0.72	0.19	3.10	131.0	15.0	285.4	2.0	0	0.00	73.	1005.	10	NAD-SFC	NoSubs
7	2	26	57	15	25.8	0.192	0.755	0.005	595.	202.	-24.6	0.0280	0.72	0.20	2.60	126.0	15.0	285.8	2.0	0	0.00	72.	1004.	10	NAD-SFC	NoSubs
7	2	26	57	16	52.1	0.168	1.014	0.005	717.	165.	-8.1	0.0240	0.72	0.23	2.10	162.0	15.0	286.2	2.0	0	0.00	70.	1003.	8	NAD-SFC	NoSubs
7	2	26	57	17	25.3	0.159	0.817	0.005	769.	152.	-14.1	0.0240	0.72	0.32	2.10	167.0	15.0	286.1	2.0	0	0.00	71.	1003.	6	NAD-SFC	NoSubs
7	2	26	57	18	-17.8	0.209	-9.000	-9.000	-999.	230.	46.0	0.0240	0.72	0.62	3.60	154.0	15.0	285.5	2.0	0	0.00	75.	1003.	5	NAD-SFC	NoSubs
7	2	26	57	19	-20.1	0.240	-9.000	-9.000	-999.	282.	61.5	0.0240	0.72	1.00	4.10	153.0	15.0	284.8	2.0	0	0.00	81.	1003.	7	NAD-SFC	NoSubs
7	2	26	57	20	-21.8	0.239	-9.000	-9.000	-999.	281.	56.4	0.0240	0.72	1.00	4.10	164.0	15.0	284.4	2.0	0	0.00	83.	1002.	6	NAD-SFC	NoSubs
7	2	26	57	21	-20.2	0.208	-9.000	-9.000	-999.	229.	40.0	0.0240	0.72	1.00	3.60	175.0	15.0	284.2	2.0	0	0.00	85.	1002.	5	NAD-SFC	NoSubs
7	2	26	57	22	-15.3	0.175	-9.000	-9.000	-999.	176.	31.1	0.0220	0.72	1.00	3.10	191.0	15.0	283.9	2.0	0	0.00	87.	1002.	4	NAD-SFC	NoSubs
7	2	26	57	23	-15.4	0.175	-9.000	-9.000	-999.	175.	31.1	0.0220	0.72	1.00	3.10	225.0	15.0	283.5	2.0	0	0.00	90.	1003.	4	NAD-SFC	NoSubs
7	2	26	57	24	-15.3	0.172	-9.000	-9.000	-999.	171.	29.7	0.0200	0.72	1.00	3.10	244.0	15.0	283.1	2.0	0	0.00	92.	1002.	3	NAD-SFC	NoSubs
7	2	27	58	1	-15.3	0.172	-9.000	-9.000	-999.	171.	29.7	0.0200	0.72	1.00	3.10	258.0	15.0	282.8	2.0	0	0.00	92.	1003.	3	NAD-SFC	NoSubs
7	2	27	58	2	-15.3	0.172	-9.000	-9.000	-999.	171.	29.7	0.0200	0.72	1.00	3.10	267.0	15.0	282.2	2.0	0	0.00	92.	1003.	3	NAD-SFC	NoSubs
7	2	27	58	3	-24.5	0.229	-9.000	-9.000	-999.	262.	43.7	0.0420	0.72	1.00	3.60	293.0	15.0	281.8	2.0	0	0.00	91.	1003.	3	NAD-SFC	NoSubs
7	2	27	58	4	-26.7	0.259	-9.000	-9.000	-999.	316.	57.9	0.0800	0.72	1.00	3.60	302.0	15.0	281.2	2.0	0	0.00	89.	1004.	4	NAD-SFC	NoSubs
7	2	27	58	5	-26.8	0.259	-9.000	-9.000	-999.	316.	57.8	0.0800	0.72	1.00	3.60	305.0	15.0	280.8	2.0	0	0.00	89.	1004.	4	NAD-SFC	NoSubs
7	2	27	58	6	-21.6	0.221	-9.000	-9.000	-999.	250.	44.9	0.0800	0.72	1.00	3.10	304.0	15.0	280.5	2.0	0	0.00	88.	1005.	5	NAD-SFC	NoSubs
7	2	27	58	7	-15.0	0.183	-9.000	-9.000	-999.	188.	36.7	0.0800	0.72	1.00	2.60	313.0	15.0	280.2	2.0	0	0.00	87.	1006.	5	NAD-SFC	NoSubs
7	2	27	58	8	8.3	0.285	0.238	0.005	58.	366.	-250.8	0.0800	0.72	0.38	3.60	313.0	15.0	281.5	2.0	0	0.00	76.	1006.	5	NAD-SFC	NoSubs
7	2	27	58	9	59.4	0.286	0.788	0.005	295.	366.	-35.1	0.0950	0.72	0.25	3.10	335.0	15.0	282.9	2.0	0	0.00	62.	1006.	4	NAD-SFC	NoSubs
7	2	27	58	10	94.8	0.251	1.146	0.005	569.	303.	-15.0	0.0800	0.72	0.21	2.60	319.0	15.0	284.0	2.0	0	0.00	53.	1006.	6	NAD-SFC	NoSubs
7	2	27	58	11	131.0	0.177	1.475	0.005	880.	180.	-3.8	0.0800	0.72	0.19	1.50	321.0	15.0	284.8	2.0	0	0.00	49.	1006.	5	NAD-SFC	NoSubs
7	2	27	58	12	152.4	0.091	1.709	0.005	1177.	69.	-1.0	0.0800	0.72	0.19	0.50	309.0	15.0	285.2	2.0	0	0.00	46.	1005.	4	NAD-SFC	NoSubs
7	2	27	58	13	155.1	-9.000	-9.000	-9.000	1444.	-999.	-99999.0	0.0471	0.72	0.19	0.00	0.0	15.0	285.8	2.0	0	0.00	44.	1004.	4	NAD-SFC	NoSubs
7	2	27	58	14	143.3	0.072	1.891	0.005	1690.	46.	-1.0	0.0220	0.72	0.19	0.50	235.0	15.0	286.2	2.0	0	0.00	42.	1003.	4	NAD-SFC	NoSubs
7	2	27	58	15	117.0	0.178	1.806	0.005	1805.	181.	-4.3	0.0220	0.72	0.20	2.10	225.0	15.0	286.2	2.0	0	0.00	42.	1003.	4	NAD-SFC	NoSubs
7	2	27	58	16	77.3	0.259	1.587	0.005	1850.	317.	-20.1	0.0220	0.72	0.23	3.60	235.0	15.0	286.2	2.0	0	0.00	44.	1002.	4	NAD-SFC	NoSubs
7	2	27	58	17	27.2	0.184	1.124	0.005	1865.	191.	-20.3	0.0200	0.72	0.32	2.60	256.0	15.0	285.9	2.0	0	0.00	51.	1002.	5	NAD-SFC	NoSubs

7	2	27	58	18	-9.1	0.146	-9.000	-9.000	-999.	134.	30.3	0.0800	0.72	0.61	2.10	301.0	15.0	285.2	2.0	0	0.00	55.	1002.	4	NAD-SFC	NoSubs
7	2	27	58	19	-12.5	0.161	-9.000	-9.000	-999.	155.	29.9	0.0420	0.72	1.00	2.60	298.0	15.0	284.2	2.0	0	0.00	61.	1002.	4	NAD-SFC	NoSubs
7	2	27	58	20	-12.8	0.161	-9.000	-9.000	-999.	155.	29.2	0.0420	0.72	1.00	2.60	289.0	15.0	283.4	2.0	0	0.00	68.	1002.	3	NAD-SFC	NoSubs
7	2	27	58	21	-10.4	0.142	-9.000	-9.000	-999.	129.	24.7	0.0200	0.72	1.00	2.60	266.0	15.0	282.8	2.0	0	0.00	72.	1002.	4	NAD-SFC	NoSubs
7	2	27	58	22	-14.7	0.172	-9.000	-9.000	-999.	172.	31.2	0.0200	0.72	1.00	3.10	265.0	15.0	282.2	2.0	0	0.00	77.	1002.	5	NAD-SFC	NoSubs
7	2	27	58	23	-14.3	0.173	-9.000	-9.000	-999.	173.	32.4	0.0200	0.72	1.00	3.10	258.0	15.0	282.1	2.0	0	0.00	81.	1002.	6	NAD-SFC	NoSubs
7	2	27	58	24	-14.3	0.173	-9.000	-9.000	-999.	173.	32.4	0.0200	0.72	1.00	3.10	267.0	15.0	281.9	2.0	0	0.25	81.	1002.	6	NAD-SFC	NoSubs
7	2	28	59	1	-22.5	0.229	-9.000	-9.000	-999.	263.	47.9	0.0420	0.72	1.00	3.60	279.0	15.0	281.8	2.0	0	0.25	80.	1003.	5	NAD-SFC	NoSubs
7	2	28	59	2	-27.1	0.262	-9.000	-9.000	-999.	323.	59.7	0.0420	0.72	1.00	4.10	289.0	15.0	281.4	2.0	0	0.00	79.	1004.	4	NAD-SFC	NoSubs
7	2	28	59	3	-28.2	0.262	-9.000	-9.000	-999.	322.	57.1	0.0420	0.72	1.00	4.10	296.0	15.0	280.2	2.0	0	0.00	81.	1004.	3	NAD-SFC	NoSubs
7	2	28	59	4	-28.4	0.262	-9.000	-9.000	-999.	322.	56.9	0.0420	0.72	1.00	4.10	297.0	15.0	279.2	2.0	0	0.00	82.	1005.	3	NAD-SFC	NoSubs
7	2	28	59	5	-28.0	0.258	-9.000	-9.000	-999.	315.	55.1	0.0800	0.72	1.00	3.60	300.0	15.0	278.5	2.0	0	0.00	84.	1006.	3	NAD-SFC	NoSubs
7	2	28	59	6	-18.4	0.195	-9.000	-9.000	-999.	208.	36.2	0.0420	0.72	1.00	3.10	299.0	15.0	278.1	2.0	0	0.00	84.	1007.	4	NAD-SFC	NoSubs
7	2	28	59	7	-8.2	0.128	-9.000	-9.000	-999.	111.	23.1	0.0420	0.72	1.00	2.10	296.0	15.0	277.8	2.0	0	0.00	84.	1008.	4	NAD-SFC	NoSubs
7	2	28	59	8	8.3	0.220	0.248	0.005	66.	248.	-115.9	0.0950	0.72	0.38	2.60	340.0	15.0	279.4	2.0	0	0.00	75.	1009.	4	NAD-SFC	NoSubs
7	2	28	59	9	60.4	0.168	0.842	0.005	356.	166.	-7.0	0.0960	0.72	0.25	1.50	7.0	15.0	280.8	2.0	0	0.00	71.	1009.	4	NAD-SFC	NoSubs
7	2	28	59	10	22.3	0.073	0.647	0.005	436.	52.	-1.6	0.0960	0.72	0.20	0.50	6.0	15.0	281.9	2.0	0	0.00	62.	1009.	10	NAD-SFC	NoSubs
7	2	28	59	11	110.9	0.138	1.364	0.005	824.	122.	-2.1	0.0950	0.72	0.19	1.00	339.0	15.0	282.8	2.0	0	0.00	55.	1009.	7	NAD-SFC	NoSubs
7	2	28	59	12	148.4	0.225	1.730	0.005	1258.	256.	-6.9	0.0800	0.72	0.19	2.10	329.0	15.0	283.4	2.0	0	0.00	51.	1009.	5	NAD-SFC	NoSubs
7	2	28	59	13	156.0	0.308	1.854	0.005	1473.	410.	-16.8	0.0950	0.72	0.19	3.10	330.0	15.0	284.0	2.0	0	0.00	46.	1008.	4	NAD-SFC	NoSubs
7	2	28	59	14	144.1	0.379	1.863	0.005	1617.	559.	-33.9	0.0950	0.72	0.19	4.10	335.0	15.0	284.5	2.0	0	0.00	43.	1008.	4	NAD-SFC	NoSubs
7	2	28	59	15	117.8	0.446	1.780	0.005	1725.	714.	-67.6	0.0950	0.72	0.20	5.10	332.0	15.0	284.8	2.0	0	0.00	43.	1008.	4	NAD-SFC	NoSubs
7	2	28	59	16	78.0	0.437	1.570	0.005	1787.	693.	-95.9	0.0950	0.72	0.23	5.10	339.0	15.0	284.6	2.0	0	0.00	44.	1008.	4	NAD-SFC	NoSubs
7	2	28	59	17	27.7	0.308	1.116	0.005	1805.	422.	-95.1	0.0950	0.72	0.31	3.60	342.0	15.0	284.1	2.0	0	0.00	53.	1008.	4	NAD-SFC	NoSubs
7	2	28	59	18	-27.4	0.308	-9.000	-9.000	-999.	411.	96.0	0.0950	0.72	0.60	4.10	343.0	15.0	282.9	2.0	0	0.00	60.	1009.	4	NAD-SFC	NoSubs
7	2	28	59	19	-31.9	0.307	-9.000	-9.000	-999.	409.	81.8	0.0950	0.72	1.00	4.10	337.0	15.0	281.8	2.0	0	0.00	66.	1009.	4	NAD-SFC	NoSubs
7	2	28	59	20	-32.0	0.307	-9.000	-9.000	-999.	409.	81.6	0.0950	0.72	1.00	4.10	340.0	15.0	281.0	2.0	0	0.00	69.	1010.	4	NAD-SFC	NoSubs
7	2	28	59	21	-28.0	0.268	-9.000	-9.000	-999.	334.	62.0	0.0950	0.72	1.00	3.60	349.0	15.0	280.2	2.0	0	0.00	73.	1011.	4	NAD-SFC	NoSubs
7	2	28	59	22	-23.6	0.229	-9.000	-9.000	-999.	264.	46.0	0.0960	0.72	1.00	3.10	5.0	15.0	279.4	2.0	0	0.00	74.	1011.	4	NAD-SFC	NoSubs
7	2	28	59	23	-16.0	0.190	-9.000	-9.000	-999.	199.	38.5	0.0950	0.72	1.00	2.60	352.0	15.0	278.9	2.0	0	0.00	75.	1012.	5	NAD-SFC	NoSubs
7	2	28	59	24	-4.6	0.107	-9.000	-9.000	-999.	86.	23.9	0.0950	0.72	1.00	1.50	345.0	15.0	278.4	2.0	0	0.00	77.	1012.	8	NAD-SFC	NoSubs
7	3	1	60	1	-0.7	0.056	-9.000	-9.000	-999.	32.	23.5	0.0780	0.32	1.00	0.50	299.0	15.0	278.1	2.0	0	0.00	79.	1013.	10	NAD-SFC	NoSubs
7	3	1	60	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	278.0	2.0	0	0.00	80.	1013.	7	NAD-SFC	NoSubs
7	3	1	60	3	-0.9	0.063	-9.000	-9.000	-999.	38.	25.8	0.0510	0.32	1.00	0.50	98.0	15.0	277.8	2.0	0	0.00	82.	1013.	7	NAD-SFC	NoSubs
7	3	1	60	4	-2.1	0.073	-9.000	-9.000	-999.	48.	17.4	0.0460	0.32	1.00	1.00	127.0	15.0	277.6	2.0	0	0.00	84.	1014.	7	NAD-SFC	NoSubs
7	3	1	60	5	-2.1	0.074	-9.000	-9.000	-999.	48.	17.4	0.0460	0.32	1.00	1.00	144.0	15.0	277.5	2.0	0	0.00	87.	1014.	7	NAD-SFC	NoSubs
7	3	1	60	6	-4.1	0.094	-9.000	-9.000	-999.	70.	18.4	0.0460	0.32	1.00	1.50	148.0	15.0	277.4	2.0	0	0.00	90.	1015.	6	NAD-SFC	NoSubs
7	3	1	60	7	-2.2	0.076	-9.000	-9.000	-999.	50.	17.5	0.0380	0.32	1.00	1.00	175.0	15.0	277.2	2.0	0	0.00	93.	1015.	5	NAD-SFC	NoSubs
7	3	1	60	8	6.5	0.152	0.222	0.005	61.	142.	-48.9	0.0330	0.32	0.34	2.10	182.0	15.0	278.1	2.0	0	0.00	88.	1015.	4	NAD-SFC	NoSubs
7	3	1	60	9	38.1	0.137	0.631	0.005	238.	122.	-6.1	0.0380	0.32	0.20	1.50	178.0	15.0	279.4	2.0	0	0.00	76.	1015.	3	NAD-SFC	NoSubs
7	3	1	60	10	65.4	0.069	0.901	0.005	404.	45.	-1.0	0.0330	0.32	0.16	0.50	184.0	15.0	280.4	2.0	0	0.00	68.	1015.	3	NAD-SFC	NoSubs
7	3	1	60	11	84.8	-9.000	-9.000	-9.000	697.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	281.4	2.0	0	0.00	60.	1015.	3	NAD-SFC	NoSubs
7	3	1	60	12	94.4	-9.000	-9.000	-9.000	948.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	282.6	2.0	0	0.00	53.	1014.	4	NAD-SFC	NoSubs
7	3	1	60	13	96.1	0.150	1.421	0.005	1080.	139.	-3.2	0.1620	0.32	0.15	1.00	305.0	15.0	283.6	2.0	0	0.00	46.	1013.	4	NAD-SFC	NoSubs
7	3	1	60	14	89.9	0.244	1.433	0.005	1184.	290.	-14.6	0.1620	0.32	0.15	2.10	315.0	15.0	284.2	2.0	0	0.00	42.	1012.	3	NAD-SFC	NoSubs
7	3	1	60	15	73.6	0.330	1.370	0.005	1263.	455.	-44.1	0.1880	0.32	0.16	3.10	334.0	15.0	284.8	2.0	0	0.00	40.	1011.	3	NAD-SFC	NoSubs
7	3	1	60	16	49.0	0.362	1.212	0.006	1312.	524.	-87.6	0.1880	0.32	0.18	3.60	335.0	15.0	284.9	2.0	0	0.00	36.	1011.	3	NAD-SFC	NoSubs
7	3	1	60	17	17.8	0.261	0.870	0.006	1329.	326.	-90.2	0.1880	0.32	0.27	2.60	341.0	15.0	284.6	2.0	0	0.00	45.	1010.	3	NAD-SFC	NoSubs
7	3	1	60	18	-24.3	0.269	-9.000	-9.000	-999.	335.	72.4	0.1880	0.32	0.56	3.10	345.0	15.0	284.0	2.0	0	0.00	47.	1011.	3	NAD-SFC	NoSubs
7	3	1	60	19	-20.1	0.214	-9.000	-9.000	-999.	238.	44.0	0.1620	0.32	1.00	2.60	329.0	15.0	283.2	2.0	0	0.00	50.	1012.	3	NAD-SFC	NoSubs
7	3	1	60	20	-12.9	0.170	-9.000	-9.000	-999.	168.	34.3	0.1620	0.32	1.00	2.10	309.0	15.0	282.4	2.0	0	0.00	55.	1012.	3	NAD-SFC	NoSubs
7	3	1	60	21	-6.5	0.120	-9.000	-9.000	-999.	101.	24.1	0.1620	0.32	1.00	1.50	309.0	15.0	281.4	2.0	0	0.00	61.	1013.	3	NAD-SFC	NoSubs
7	3	1	60	22	-3.4	0.093	-9.000	-9.000	-999.	68.	21.5	0.1620	0.32	1.00	1.00	329.0	15.0	280.5	2.0	0	0.00	66.	1013.	3	NAD-SFC	NoSubs
7	3	1	60	23	-1.4	0.077	-9.000	-9.000	-999.	51.	30.3	0.1280	0.32	1.00	0.50	43.0	15.0	279.8	2.0	0	0.00	71.	1014.	3	NAD-SFC	NoSubs
7	3	1	60	24	-2.5	0.079	-9.000	-9.000	-999.	54.	18.2	0.0460	0.32	1.00	1.00	130.0	15.0	278.9	2.0	0	0.00	74.	1014.	3	NAD-SFC	NoSubs
7	3	2	61	1	-4.3	0.093	-9.000	-9.000	-999.	69.	17.1	0.0380	0.32	1.00	1.50	155.0	15.0	278.2	2.0	0	0.00	77.	1014.	3	NAD-SFC	NoSubs
7	3	2	61	2	-2.4	0.078	-9.000	-9.000	-999.	52.	17.8	0.0380	0.32	1.00	1.00	169.0	15.0	277.8	2.0	0	0.00	79.	1014.	3	NAD-SFC	NoSubs
7	3	2	61	3	-1.0	0.068	-9.000	-9.000	-999.	42.	27.0	0.0340	0.32	1.00	0.50	219.0	15.0	277.4	2.0	0	0.00	82.	1014.	3	NAD-SFC	NoSubs
7	3	2	61	4	-2.8	0.085	-9.000	-9.000	-999.	59.	19.4	0.0780	0.32	1.00	1.00	270.0	15.0	277.1	2.0	0	0.00	85.	1014.	3	NAD-SFC	NoSubs
7	3	2	61	5	-2.8	0.085	-9.000	-9.000	-999.	59.	19.4	0.0780	0.32	1.00	1.00	270.0	15.0	276.9	2.0	0	0.00	89.	1014.	3	NAD-SFC	NoSubs
7	3	2	61	6	-2.4	0.077	-9.000	-9.000	-999.	51.	17.5	0.0310	0.32	1.00	1.00	265.0	15.0	276.8	2.0	0	0.00	92.	1015.	2	NAD-SFC	NoSubs
7	3	2	61	7	-2.4	0.078	-9.000	-9.000	-999.	52.	17.7	0.0340	0.32	1.00	1.00	226.0	15.0	276.5	2.0	0	0.00	95.	1016.	2	NAD-SFC	NoSubs
7	3	2	61	8	5.6	0.051	0.175	0.007	35.	28.	-2.1	0.0310	0.32	0.33	0.50	245.0	15.0	277.9	2.0	0	0.00	89.	1016.	2	NAD-SFC	NoSubs
7	3	2	61	9	38.4	-9.000	-9.000	-9.000	149.	-999.	-99999.0	0.0879	0.32	0.20	0.00	0.0	15.0	280.2	2.0	0	0.00	78.	1016.	2	NAD-SFC	NoSubs
7	3	2	61	10	66.0	-9.000	-9.000	-9.000	352.	-999.	-99999.0	0.0879	0.32	0.16	0.00	0.0	15.0	281.8	2.0	0	0.00	69.	1016.	2	NAD-SFC	NoSubs
7	3	2	61	11	85.6	-9.000	-9.000	-9.000	610.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	283.1	2.0	0	0.00	62.	1016.	2	NAD-SFC	NoSubs
7	3	2	61	12	96.5	0.085	1.251	0.006	736.	60.	-1.0	0.0780	0.32	0.15	0.50	288.0	15.0	284.6	2.0	0	0.00	55.	1015.	2	NAD-SFC	NoSubs
7	3	2	61	13	98.2	0.099	1.308	0.006	825.	75.	-1.0	0.1620	0.32	0.15	0.50	301.0	15.0	285.8	2.0	0	0.00	49.	1014.	2	NAD-SFC	NoSubs
7	3	2	61	14	90.8	0.149	1.312	0.006	899.	138.	-3.3	0.1620	0.32	0.15	1.00	306.0	15.0	286.6	2.0	0	0.00	46.	1013.	2	NAD-SFC	NoSubs
7	3	2	61	15	74.3	0.190	1.253	0.007	956.	198.	-8.3	0.1620	0.32	0.16	1.50	316.0	15.0	287.2	2.0	0	0.00	44.	1013.	2	NAD-SFC	NoSubs
7	3	2	61	16	49.5	0.238	1.107	0.007	991.	278.	-24.6	0.1880	0.32	0.18	2.10	338.0	15.0	287.2	2.0	0	0.00	44.	1012.	2	NAD-SFC	NoSubs
7	3	2	61	17	18.0	0.170	0.793	0.007	1002.	169.	-24.6	0.1880	0.32	0.27	1.50	340.0	15.0	287.2	2.0	0	0.00	48.	1012.	2	NAD-SFC	NoSubs
7	3	2	61	18	-1.3	0.074	-9.000	-9.000	-999.	54.	29.5	0.1880	0.32	0.55	0.50	346.0	15.0	286.6	2.0	0	0.00	51.	1013.	2	NAD-SFC	NoSubs
7	3	2	61	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	285.5	2.0	0	0.00	56.	1014.	2	NAD-SFC	NoSubs
7	3	2	61	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	284.2	2.0	0	0.00	62.	1014.	2	NAD-SFC	NoSubs
7	3	2	61	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	283.2	2.0	0	0.00	67.	1015.	2	NAD-SFC	NoSubs
7	3	2	61	22	-1.0	0.068	-9.000	-9.000	-999.	42.	27.0	0.0330	0.32	1.00	0.50	184.0	15.0	282.2	2.0	0	0.00	72.	1016.	2	NAD-SFC	NoSubs

7	3	2	61	23	-2.5	0.080	-9.000	-9.000	-999.	54.	18.2	0.0460	0.32	1.00	1.00	130.0	15.0	281.5	2.0	0	0.00	76.	1016.	2 NAD-SFC NoSubs
7	3	2	61	24	-4.6	0.096	-9.000	-9.000	-999.	72.	17.6	0.0460	0.32	1.00	1.50	129.0	15.0	280.8	2.0	0	0.00	79.	1016.	2 NAD-SFC NoSubs
7	3	3	62	1	-1.1	0.070	-9.000	-9.000	-999.	44.	27.9	0.0460	0.32	1.00	0.50	139.0	15.0	280.4	2.0	0	0.00	80.	1016.	2 NAD-SFC NoSubs
7	3	3	62	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	280.0	2.0	0	0.00	82.	1016.	2 NAD-SFC NoSubs
7	3	3	62	3	-1.0	0.068	-9.000	-9.000	-999.	42.	27.0	0.0310	0.32	1.00	0.50	269.0	15.0	279.6	2.0	0	0.00	84.	1016.	2 NAD-SFC NoSubs
7	3	3	62	4	-1.2	0.074	-9.000	-9.000	-999.	48.	29.3	0.0780	0.32	1.00	0.50	283.0	15.0	279.2	2.0	0	0.00	86.	1015.	2 NAD-SFC NoSubs
7	3	3	62	5	-2.9	0.085	-9.000	-9.000	-999.	60.	19.5	0.0780	0.32	1.00	1.00	285.0	15.0	279.0	2.0	0	0.00	88.	1015.	2 NAD-SFC NoSubs
7	3	3	62	6	-2.9	0.085	-9.000	-9.000	-999.	60.	19.5	0.0780	0.32	1.00	1.00	294.0	15.0	278.8	2.0	0	0.00	89.	1016.	2 NAD-SFC NoSubs
7	3	3	62	7	-2.9	0.085	-9.000	-9.000	-999.	60.	19.5	0.0780	0.32	1.00	1.00	299.0	15.0	278.5	2.0	0	0.00	91.	1016.	2 NAD-SFC NoSubs
7	3	3	62	8	6.5	0.098	0.180	0.010	32.	73.	-12.9	0.0780	0.32	0.33	1.00	298.0	15.0	280.0	2.0	0	0.00	86.	1016.	2 NAD-SFC NoSubs
7	3	3	62	9	39.5	0.135	0.505	0.009	118.	119.	-5.6	0.1620	0.32	0.20	1.00	303.0	15.0	282.8	2.0	0	0.00	74.	1016.	2 NAD-SFC NoSubs
7	3	3	62	10	67.4	0.097	0.772	0.008	247.	72.	-1.2	0.1880	0.32	0.16	0.50	334.0	15.0	285.8	2.0	0	0.00	56.	1016.	2 NAD-SFC NoSubs
7	3	3	62	11	87.2	0.100	0.976	0.008	387.	76.	-1.0	0.1880	0.32	0.15	0.50	347.0	15.0	288.2	2.0	0	0.00	43.	1016.	2 NAD-SFC NoSubs
7	3	3	62	12	98.3	0.155	1.109	0.008	503.	147.	-3.5	0.1900	0.32	0.15	1.00	15.0	15.0	290.6	2.0	0	0.00	34.	1014.	2 NAD-SFC NoSubs
7	3	3	62	13	100.3	0.203	1.184	0.008	599.	219.	-7.5	0.1900	0.32	0.15	1.50	26.0	15.0	292.8	2.0	0	0.00	28.	1013.	2 NAD-SFC NoSubs
7	3	3	62	14	93.0	0.248	1.203	0.008	676.	297.	-14.9	0.0760	0.32	0.15	2.60	86.0	15.0	294.1	2.0	0	0.00	24.	1012.	2 NAD-SFC NoSubs
7	3	3	62	15	76.5	0.359	1.158	0.008	731.	516.	-54.5	0.0510	0.32	0.16	4.60	113.0	15.0	294.5	2.0	0	0.00	24.	1011.	2 NAD-SFC NoSubs
7	3	3	62	16	51.4	0.250	1.029	0.007	765.	307.	-27.4	0.0460	0.32	0.18	3.10	123.0	15.0	293.8	2.0	0	0.00	35.	1011.	2 NAD-SFC NoSubs
7	3	3	62	17	19.6	0.236	0.749	0.007	776.	275.	-60.4	0.0460	0.32	0.27	3.10	132.0	15.0	292.2	2.0	0	0.00	43.	1011.	2 NAD-SFC NoSubs
7	3	3	62	18	-26.3	0.302	-9.000	-9.000	-999.	398.	94.3	0.0460	0.32	0.55	4.60	139.0	15.0	289.8	2.0	0	0.00	48.	1012.	2 NAD-SFC NoSubs
7	3	3	62	19	-39.5	0.363	-9.000	-9.000	-999.	525.	109.7	0.0380	0.32	1.00	5.70	153.0	15.0	287.6	2.0	0	0.00	49.	1013.	2 NAD-SFC NoSubs
7	3	3	62	20	-41.0	0.376	-9.000	-9.000	-999.	552.	116.7	0.0460	0.32	1.00	5.70	146.0	15.0	286.1	2.0	0	0.00	47.	1013.	2 NAD-SFC NoSubs
7	3	3	62	21	-35.5	0.323	-9.000	-9.000	-999.	443.	86.3	0.0380	0.32	1.00	5.10	152.0	15.0	285.2	2.0	0	0.00	45.	1014.	2 NAD-SFC NoSubs
7	3	3	62	22	-31.9	0.290	-9.000	-9.000	-999.	376.	69.5	0.0380	0.32	1.00	4.60	158.0	15.0	285.0	2.0	0	0.00	42.	1014.	2 NAD-SFC NoSubs
7	3	3	62	23	-28.3	0.258	-9.000	-9.000	-999.	314.	54.6	0.0380	0.32	1.00	4.10	161.0	15.0	285.0	2.0	0	0.00	40.	1015.	2 NAD-SFC NoSubs
7	3	3	62	24	-24.7	0.224	-9.000	-9.000	-999.	256.	41.5	0.0380	0.32	1.00	3.60	165.0	15.0	285.0	2.0	0	0.00	39.	1015.	2 NAD-SFC NoSubs
7	3	4	63	1	-18.4	0.191	-9.000	-9.000	-999.	201.	34.5	0.0380	0.32	1.00	3.10	150.0	15.0	284.8	2.0	0	0.00	40.	1015.	2 NAD-SFC NoSubs
7	3	4	63	2	-13.4	0.164	-9.000	-9.000	-999.	159.	29.5	0.0460	0.32	1.00	2.60	135.0	15.0	284.6	2.0	0	0.00	42.	1015.	2 NAD-SFC NoSubs
7	3	4	63	3	-8.9	0.133	-9.000	-9.000	-999.	116.	23.8	0.0510	0.32	1.00	2.10	103.0	15.0	284.2	2.0	0	0.00	45.	1015.	2 NAD-SFC NoSubs
7	3	4	63	4	-10.0	0.143	-9.000	-9.000	-999.	130.	26.6	0.0760	0.32	1.00	2.10	76.0	15.0	283.6	2.0	0	0.00	51.	1015.	2 NAD-SFC NoSubs
7	3	4	63	5	-11.9	0.160	-9.000	-9.000	-999.	154.	31.2	0.1280	0.32	1.00	2.10	58.0	15.0	282.9	2.0	0	0.00	59.	1015.	2 NAD-SFC NoSubs
7	3	4	63	6	-26.8	0.244	-9.000	-9.000	-999.	289.	49.0	0.1280	0.32	1.00	3.10	46.0	15.0	282.5	2.0	0	0.00	66.	1015.	2 NAD-SFC NoSubs
7	3	4	63	7	-31.7	0.286	-9.000	-9.000	-999.	366.	66.6	0.1280	0.32	0.73	3.60	47.0	15.0	282.2	2.0	0	0.00	71.	1015.	2 NAD-SFC NoSubs
7	3	4	63	8	7.6	0.251	0.188	0.005	32.	303.	-190.3	0.1900	0.32	0.32	2.60	29.0	15.0	282.2	2.0	0	0.00	70.	1015.	2 NAD-SFC NoSubs
7	3	4	63	9	40.5	0.276	0.484	0.005	101.	348.	-47.0	0.1900	0.32	0.20	2.60	7.0	15.0	284.0	2.0	0	0.00	58.	1015.	2 NAD-SFC NoSubs
7	3	4	63	10	68.2	0.288	0.820	0.005	292.	370.	-31.6	0.1900	0.32	0.16	2.60	4.0	15.0	285.6	2.0	0	0.00	51.	1015.	2 NAD-SFC NoSubs
7	3	4	63	11	87.8	0.251	1.039	0.005	463.	302.	-16.3	0.1880	0.32	0.15	2.10	350.0	15.0	287.1	2.0	0	0.00	49.	1014.	2 NAD-SFC NoSubs
7	3	4	63	12	98.7	0.296	1.180	0.005	602.	386.	-23.7	0.1880	0.32	0.15	2.60	336.0	15.0	288.8	2.0	0	0.00	44.	1013.	2 NAD-SFC NoSubs
7	3	4	63	13	100.4	0.338	1.264	0.005	728.	472.	-34.8	0.1880	0.32	0.15	3.10	343.0	15.0	289.6	2.0	0	0.00	43.	1013.	2 NAD-SFC NoSubs
7	3	4	63	14	92.8	0.336	1.290	0.005	836.	468.	-36.9	0.1880	0.32	0.15	3.10	338.0	15.0	290.0	2.0	0	0.00	44.	1012.	2 NAD-SFC NoSubs
7	3	4	63	15	76.3	-9.000	-9.000	-9.000	915.	-999.	-99999.0	0.0879	0.32	0.16	0.00	0.0	15.0	290.0	2.0	0	0.00	48.	1012.	2 NAD-SFC NoSubs
7	3	4	63	16	51.2	0.322	1.110	0.005	964.	439.	-59.0	0.1900	0.32	0.18	3.10	19.0	15.0	289.5	2.0	0	0.00	56.	1011.	2 NAD-SFC NoSubs
7	3	4	63	17	19.5	0.348	0.809	0.005	981.	492.	-194.9	0.1900	0.32	0.26	3.60	24.0	15.0	288.8	2.0	0	0.00	60.	1011.	2 NAD-SFC NoSubs
7	3	4	63	18	-28.4	0.329	-9.000	-9.000	-999.	453.	113.4	0.1280	0.32	0.54	4.10	34.0	15.0	288.1	2.0	0	0.00	62.	1012.	2 NAD-SFC NoSubs
7	3	4	63	19	-31.8	0.293	-9.000	-9.000	-999.	382.	71.5	0.0760	0.32	1.00	4.10	63.0	15.0	287.8	2.0	0	0.00	60.	1012.	2 NAD-SFC NoSubs
7	3	4	63	20	-22.2	0.218	-9.000	-9.000	-999.	247.	42.0	0.0760	0.32	1.00	3.10	68.0	15.0	287.4	2.0	0	0.00	59.	1011.	2 NAD-SFC NoSubs
7	3	4	63	21	-21.5	0.223	-9.000	-9.000	-999.	252.	46.3	0.1900	0.32	1.00	2.60	29.0	15.0	287.4	2.0	0	0.00	58.	1012.	2 NAD-SFC NoSubs
7	3	4	63	22	-21.1	0.222	-9.000	-9.000	-999.	251.	46.8	0.1880	0.32	1.00	2.60	340.0	15.0	287.0	2.0	0	0.00	59.	1011.	3 NAD-SFC NoSubs
7	3	4	63	23	-32.1	0.295	-9.000	-9.000	-999.	384.	71.8	0.0780	0.32	1.00	4.10	289.0	15.0	286.2	2.0	0	0.00	65.	1011.	2 NAD-SFC NoSubs
7	3	4	63	24	-15.6	0.181	-9.000	-9.000	-999.	192.	34.4	0.0780	0.32	1.00	2.60	277.0	15.0	285.8	2.0	0	0.00	67.	1011.	2 NAD-SFC NoSubs
7	3	5	64	1	-28.1	0.257	-9.000	-9.000	-999.	313.	54.5	0.0780	0.32	1.00	3.60	270.0	15.0	285.8	2.0	0	0.00	65.	1011.	2 NAD-SFC NoSubs
7	3	5	64	2	-28.1	0.258	-9.000	-9.000	-999.	315.	55.1	0.1620	0.32	1.00	3.10	310.0	15.0	286.0	2.0	0	0.00	61.	1011.	2 NAD-SFC NoSubs
7	3	5	64	3	-5.2	0.105	-9.000	-9.000	-999.	102.	19.8	0.0780	0.32	1.00	1.50	276.0	15.0	285.9	2.0	0	0.00	58.	1011.	2 NAD-SFC NoSubs
7	3	5	64	4	-3.5	0.095	-9.000	-9.000	-999.	71.	22.0	0.1900	0.32	1.00	1.00	7.0	15.0	286.0	2.0	0	0.00	56.	1011.	2 NAD-SFC NoSubs
7	3	5	64	5	-3.2	0.090	-9.000	-9.000	-999.	65.	20.7	0.1280	0.32	1.00	1.00	40.0	15.0	286.0	2.0	0	0.00	55.	1011.	2 NAD-SFC NoSubs
7	3	5	64	6	-1.5	0.080	-9.000	-9.000	-999.	55.	31.4	0.1900	0.32	1.00	0.50	7.0	15.0	285.2	2.0	0	0.00	58.	1011.	2 NAD-SFC NoSubs
7	3	5	64	7	-2.8	0.085	-9.000	-9.000	-999.	59.	19.4	0.0780	0.32	0.71	1.00	295.0	15.0	284.4	2.0	0	0.00	62.	1012.	2 NAD-SFC NoSubs
7	3	5	64	8	8.8	0.178	0.233	0.008	52.	180.	-58.0	0.0780	0.32	0.32	2.10	291.0	15.0	285.2	2.0	0	0.00	60.	1012.	2 NAD-SFC NoSubs
7	3	5	64	9	41.9	0.199	0.558	0.007	150.	213.	-17.0	0.0780	0.32	0.20	2.10	276.0	15.0	287.0	2.0	0	0.00	56.	1012.	2 NAD-SFC NoSubs
7	3	5	64	10	69.6	0.125	0.794	0.006	259.	108.	-2.6	0.0780	0.32	0.16	1.00	274.0	15.0	289.0	2.0	0	0.00	53.	1012.	2 NAD-SFC NoSubs
7	3	5	64	11	89.4	0.129	0.966	0.005	363.	112.	-2.2	0.0780	0.32	0.15	1.00	289.0	15.0	291.2	2.0	0	0.00	49.	1011.	2 NAD-SFC NoSubs
7	3	5	64	12	100.3	0.196	1.135	0.005	525.	209.	-6.8	0.1620	0.32	0.15	1.50	301.0	15.0	292.8	2.0	0	0.00	45.	1010.	2 NAD-SFC NoSubs
7	3	5	64	13	102.1	0.197	1.244	0.005	679.	209.	-6.7	0.1620	0.32	0.15	1.50	315.0	15.0	293.9	2.0	0	0.00	42.	1009.	2 NAD-SFC NoSubs
7	3	5	64	14	94.6	0.195	1.300	0.007	837.	207.	-7.1	0.1620	0.32	0.15	1.50	324.0	15.0	294.8	2.0	0	0.00	39.	1009.	2 NAD-SFC NoSubs
7	3	5	64	15	78.1	0.248	1.272	0.007	948.	297.	-17.6	0.1880	0.32	0.16	2.10	330.0	15.0	295.0	2.0	0	0.00	38.	1008.	2 NAD-SFC NoSubs
7	3	5	64	16	53.1	0.239	1.135	0.007	990.	281.	-23.3	0.1880	0.32	0.18	2.10	341.0	15.0	294.9	2.0	0	0.00	41.	1008.	2 NAD-SFC NoSubs
7	3	5	64	17	21.2	0.223	0.839	0.007	1000.	252.	-46.6	0.1880	0.32	0.26	2.10	349.0	15.0	294.2	2.0	0	0.00	47.	1008.	2 NAD-SFC NoSubs
7	3	5	64	18	-12.0	0.179	-9.000	-9.000	-999.	182.	43.1	0.1900	0.32	0.53	2.10	13.0	15.0	293.2	2.0	0	0.00	52.	1008.	2 NAD-SFC NoSubs
7	3	5	64	19	-3.5	0.095	-9.000	-9.000	-999.	73.	22.0	0.1900	0.32	1.00	1.00	29.0	15.0	292.0	2.0	0	0.00	57.	1008.	2 NAD-SFC NoSubs
7	3	5	64	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	290.5	2.0	0	0.00	64.	1008.	2 NAD-SFC NoSubs
7	3	5	64	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	289.0	2.0	0	0.00	70.	1008.	2 NAD-SFC NoSubs
7	3	5	64	22	-1.2	0.073	-9.000	-9.000	-999.	47.	29.0	0.0780	0.32	1.00	0.50	288.0	15.0	287.9	2.0	0	0.00	75.	1009.	2 NAD-SFC NoSubs
7	3	5	64	23	-1.4	0.079	-9.000	-9.000	-999.	53.	30.9	0.1620	0.32	1.00	0.50	314.0	15.0	287.1	2.0	0	0.00	77.	1009.	2 NAD-SFC NoSubs
7	3	5	64	24	-3.4	0.093	-9.000	-9.000	-999.	68.	21.5	0.1620	0.32	1.00	1.00	317.0	15.0	286.4	2.0	0	0.00	78.	1009.	2 NAD-SFC NoSubs
7	3	6	65	1	-3.4	0.093	-9.000	-9.000	-999.	68.	21.5	0.1620	0.32	1.00	1.00	316.0	15.0	285.9	2.0	0	0.00	79.	1009.	2 NAD-SFC NoSubs
7	3	6	65	2	-3.4	0.093	-9.000	-9.000	-999.	68.	21.5	0.1620	0.32	1.00	1.00	310.0	15.0	285.5	2.0	0	0.00	80.	1009.	2 NAD-SFC NoSubs
7	3	6	65	3	-6.6	0.121	-9.000	-9.000	-999.	100.	24.0	0.1620	0.32	1.00	1.50	300.0	15.0	285.0	2.0	0	0.00	81.	1009.	2 NAD-SFC NoSubs

7	3	6	65	4	-12.9	0.170	-9.000	-9.000	-999.	167.	33.9	0.1620	0.32	1.00	2.10	307.0	15.0	284.5	2.0	0	0.00	83.	1009.	2	NAD-SFC	NoSubs
7	3	6	65	5	-12.9	0.169	-9.000	-9.000	-999.	167.	33.8	0.1620	0.32	1.00	2.10	310.0	15.0	283.9	2.0	0	0.00	85.	1009.	2	NAD-SFC	NoSubs
7	3	6	65	6	-6.6	0.121	-9.000	-9.000	-999.	101.	23.9	0.1620	0.32	1.00	1.50	301.0	15.0	283.4	2.0	0	0.00	86.	1009.	2	NAD-SFC	NoSubs
7	3	6	65	7	-5.2	0.105	-9.000	-9.000	-999.	81.	19.8	0.0780	0.32	0.70	1.50	290.0	15.0	283.1	2.0	0	0.00	87.	1010.	2	NAD-SFC	NoSubs
7	3	6	65	8	9.4	0.211	0.253	0.008	61.	233.	-89.8	0.1880	0.32	0.31	2.10	335.0	15.0	284.2	2.0	0	0.00	81.	1011.	2	NAD-SFC	NoSubs
7	3	6	65	9	42.6	0.179	0.552	0.009	142.	182.	-12.2	0.1620	0.32	0.20	1.50	328.0	15.0	286.0	2.0	0	0.00	73.	1011.	2	NAD-SFC	NoSubs
7	3	6	65	10	70.4	0.095	0.756	0.008	221.	72.	-1.1	0.1620	0.32	0.16	0.50	311.0	15.0	288.4	2.0	0	0.00	62.	1011.	2	NAD-SFC	NoSubs
7	3	6	65	11	90.1	0.129	0.933	0.006	325.	112.	-2.2	0.0780	0.32	0.15	1.00	298.0	15.0	290.2	2.0	0	0.00	55.	1011.	2	NAD-SFC	NoSubs
7	3	6	65	12	100.9	0.151	1.075	0.005	444.	141.	-3.1	0.1620	0.32	0.15	1.00	300.0	15.0	291.8	2.0	0	0.00	50.	1010.	2	NAD-SFC	NoSubs
7	3	6	65	13	102.6	0.197	1.203	0.006	611.	210.	-6.7	0.1620	0.32	0.15	1.50	312.0	15.0	293.0	2.0	0	0.00	47.	1010.	2	NAD-SFC	NoSubs
7	3	6	65	14	95.1	0.195	1.241	0.006	724.	207.	-7.0	0.1620	0.32	0.15	1.50	317.0	15.0	293.8	2.0	0	0.00	44.	1009.	2	NAD-SFC	NoSubs
7	3	6	65	15	78.6	0.249	1.205	0.007	802.	297.	-17.6	0.1880	0.32	0.16	2.10	331.0	15.0	294.2	2.0	0	0.00	43.	1008.	2	NAD-SFC	NoSubs
7	3	6	65	16	53.6	0.282	1.083	0.007	851.	359.	-37.4	0.1880	0.32	0.18	2.60	339.0	15.0	294.5	2.0	0	0.00	45.	1008.	2	NAD-SFC	NoSubs
7	3	6	65	17	21.8	0.264	0.809	0.007	870.	326.	-76.0	0.1880	0.32	0.26	2.60	331.0	15.0	294.1	2.0	0	0.00	50.	1007.	2	NAD-SFC	NoSubs
7	3	6	65	18	-11.0	0.172	-9.000	-9.000	-999.	175.	41.4	0.1620	0.32	0.52	2.10	329.0	15.0	293.2	2.0	0	0.00	52.	1008.	2	NAD-SFC	NoSubs
7	3	6	65	19	-3.3	0.092	-9.000	-9.000	-999.	70.	21.4	0.1620	0.32	1.00	1.00	326.0	15.0	292.2	2.0	0	0.00	56.	1008.	2	NAD-SFC	NoSubs
7	3	6	65	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	290.9	2.0	0	0.00	61.	1008.	2	NAD-SFC	NoSubs
7	3	6	65	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	289.6	2.0	0	0.00	68.	1008.	2	NAD-SFC	NoSubs
7	3	6	65	22	-1.4	0.079	-9.000	-9.000	-999.	53.	30.9	0.1620	0.32	1.00	0.50	320.0	15.0	288.8	2.0	0	0.00	73.	1008.	2	NAD-SFC	NoSubs
7	3	6	65	23	-3.3	0.093	-9.000	-9.000	-999.	68.	21.4	0.1620	0.32	1.00	1.00	322.0	15.0	288.4	2.0	0	0.00	75.	1008.	2	NAD-SFC	NoSubs
7	3	6	65	24	-13.6	0.176	-9.000	-9.000	-999.	177.	36.0	0.1880	0.32	1.00	2.10	330.0	15.0	288.2	2.0	0	0.00	73.	1008.	2	NAD-SFC	NoSubs
7	3	7	66	1	-29.0	0.268	-9.000	-9.000	-999.	333.	59.7	0.1880	0.32	1.00	3.10	344.0	15.0	287.8	2.0	0	0.00	73.	1008.	2	NAD-SFC	NoSubs
7	3	7	66	2	-29.0	0.268	-9.000	-9.000	-999.	333.	59.6	0.1880	0.32	1.00	3.10	332.0	15.0	287.2	2.0	0	0.00	74.	1009.	2	NAD-SFC	NoSubs
7	3	7	66	3	-28.0	0.258	-9.000	-9.000	-999.	315.	55.2	0.1620	0.32	1.00	3.10	321.0	15.0	286.6	2.0	0	0.00	75.	1009.	2	NAD-SFC	NoSubs
7	3	7	66	4	-28.1	0.258	-9.000	-9.000	-999.	315.	55.1	0.1620	0.32	1.00	3.10	316.0	15.0	286.2	2.0	0	0.00	76.	1009.	2	NAD-SFC	NoSubs
7	3	7	66	5	-20.1	0.214	-9.000	-9.000	-999.	238.	43.6	0.1620	0.32	1.00	2.60	317.0	15.0	286.0	2.0	0	0.00	77.	1009.	2	NAD-SFC	NoSubs
7	3	7	66	6	-12.9	0.170	-9.000	-9.000	-999.	168.	34.0	0.1620	0.32	1.00	2.10	321.0	15.0	285.8	2.0	0	0.00	78.	1010.	2	NAD-SFC	NoSubs
7	3	7	66	7	-3.4	0.093	-9.000	-9.000	-999.	70.	21.4	0.1620	0.32	0.68	1.00	316.0	15.0	285.4	2.0	0	0.00	79.	1010.	2	NAD-SFC	NoSubs
7	3	7	66	8	10.5	0.074	0.288	0.011	82.	48.	-3.5	0.1620	0.32	0.31	0.50	311.0	15.0	285.6	2.0	0	0.00	79.	1010.	2	NAD-SFC	NoSubs
7	3	7	66	9	43.6	0.141	0.586	0.009	165.	127.	-5.7	0.1880	0.32	0.19	1.00	336.0	15.0	287.1	2.0	0	0.00	71.	1010.	2	NAD-SFC	NoSubs
7	3	7	66	10	71.3	-9.000	-9.000	-9.000	271.	-999.	-99999.0	0.0879	0.32	0.16	0.00	0.0	15.0	288.9	2.0	0	0.00	62.	1009.	2	NAD-SFC	NoSubs
7	3	7	66	11	91.0	-9.000	-9.000	-9.000	382.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	290.8	2.0	0	0.00	55.	1009.	2	NAD-SFC	NoSubs
7	3	7	66	12	101.8	0.099	1.145	0.005	531.	75.	-1.0	0.1620	0.32	0.15	0.50	303.0	15.0	292.1	2.0	0	0.00	50.	1008.	2	NAD-SFC	NoSubs
7	3	7	66	13	103.4	0.099	1.234	0.005	653.	75.	-1.0	0.1620	0.32	0.14	0.50	309.0	15.0	293.2	2.0	0	0.00	46.	1007.	2	NAD-SFC	NoSubs
7	3	7	66	14	95.9	0.150	1.360	0.007	942.	139.	-3.2	0.1620	0.32	0.15	1.00	322.0	15.0	294.2	2.0	0	0.00	42.	1007.	2	NAD-SFC	NoSubs
7	3	7	66	15	79.3	0.197	1.308	0.007	1013.	210.	-8.7	0.1880	0.32	0.15	1.50	338.0	15.0	294.6	2.0	0	0.00	40.	1006.	2	NAD-SFC	NoSubs
7	3	7	66	16	54.3	0.282	1.165	0.007	1045.	359.	-37.0	0.1880	0.32	0.18	2.60	360.0	15.0	294.8	2.0	0	0.00	40.	1006.	2	NAD-SFC	NoSubs
7	3	7	66	17	22.5	0.265	0.872	0.007	1057.	328.	-74.7	0.1900	0.32	0.26	2.60	12.0	15.0	294.2	2.0	0	0.00	47.	1006.	2	NAD-SFC	NoSubs
7	3	7	66	18	-20.3	0.271	-9.000	-9.000	-999.	339.	88.2	0.1900	0.32	0.52	3.10	22.0	15.0	293.4	2.0	0	0.00	51.	1007.	2	NAD-SFC	NoSubs
7	3	7	66	19	-21.2	0.223	-9.000	-9.000	-999.	253.	46.8	0.1900	0.32	1.00	2.60	21.0	15.0	292.4	2.0	0	0.00	54.	1007.	2	NAD-SFC	NoSubs
7	3	7	66	20	-1.4	0.079	-9.000	-9.000	-999.	74.	30.8	0.1880	0.32	1.00	0.50	359.0	15.0	291.2	2.0	0	0.00	59.	1007.	3	NAD-SFC	NoSubs
7	3	7	66	21	-2.7	0.083	-9.000	-9.000	-999.	58.	19.3	0.0780	0.32	1.00	1.00	288.0	15.0	290.1	2.0	0	0.00	64.	1008.	3	NAD-SFC	NoSubs
7	3	7	66	22	-27.1	0.258	-9.000	-9.000	-999.	315.	57.3	0.1620	0.32	1.00	3.10	300.0	15.0	289.2	2.0	0	0.00	67.	1008.	3	NAD-SFC	NoSubs
7	3	7	66	23	-36.5	0.346	-9.000	-9.000	-999.	489.	102.4	0.1620	0.32	1.00	4.10	315.0	15.0	287.9	2.0	0	0.00	70.	1009.	3	NAD-SFC	NoSubs
7	3	7	66	24	-41.3	0.390	-9.000	-9.000	-999.	585.	129.5	0.1620	0.32	1.00	4.60	320.0	15.0	286.5	2.0	0	0.00	75.	1009.	3	NAD-SFC	NoSubs
7	3	8	67	1	-38.2	0.359	-9.000	-9.000	-999.	518.	109.3	0.1880	0.32	1.00	4.10	342.0	15.0	285.4	2.0	0	0.00	84.	1009.	3	NAD-SFC	NoSubs
7	3	8	67	2	-33.4	0.314	-9.000	-9.000	-999.	423.	83.1	0.1880	0.32	1.00	3.60	338.0	15.0	284.8	2.0	0	0.00	92.	1009.	3	NAD-SFC	NoSubs
7	3	8	67	3	-27.6	0.258	-9.000	-9.000	-999.	316.	56.3	0.1620	0.32	1.00	3.10	328.0	15.0	284.4	2.0	0	0.00	95.	1010.	3	NAD-SFC	NoSubs
7	3	8	67	4	-20.0	0.214	-9.000	-9.000	-999.	238.	44.1	0.1620	0.32	1.00	2.60	316.0	15.0	284.1	2.0	0	0.00	96.	1010.	3	NAD-SFC	NoSubs
7	3	8	67	5	-12.8	0.170	-9.000	-9.000	-999.	168.	34.3	0.1620	0.32	1.00	2.10	302.0	15.0	283.8	2.0	0	0.00	97.	1010.	3	NAD-SFC	NoSubs
7	3	8	67	6	-9.9	0.144	-9.000	-9.000	-999.	131.	27.1	0.0780	0.32	1.00	2.10	284.0	15.0	283.2	2.0	0	0.00	99.	1010.	3	NAD-SFC	NoSubs
7	3	8	67	7	-5.1	0.104	-9.000	-9.000	-999.	81.	20.1	0.0780	0.32	0.67	1.50	288.0	15.0	283.4	2.0	0	0.00	99.	1010.	3	NAD-SFC	NoSubs
7	3	8	67	8	12.0	0.256	0.307	0.007	87.	311.	-126.0	0.1880	0.32	0.30	2.60	330.0	15.0	284.1	2.0	0	0.00	95.	1010.	3	NAD-SFC	NoSubs
7	3	8	67	9	44.8	0.185	0.677	0.008	249.	193.	-12.8	0.1880	0.32	0.19	1.50	360.0	15.0	284.9	2.0	0	0.00	91.	1010.	3	NAD-SFC	NoSubs
7	3	8	67	10	72.0	0.125	0.895	0.007	359.	107.	-2.5	0.0760	0.32	0.16	1.00	84.0	15.0	285.6	2.0	0	0.00	87.	1010.	3	NAD-SFC	NoSubs
7	3	8	67	11	91.1	0.199	1.059	0.007	470.	212.	-7.7	0.0510	0.32	0.15	2.10	111.0	15.0	286.0	2.0	0	0.00	85.	1010.	3	NAD-SFC	NoSubs
7	3	8	67	12	101.5	0.156	1.173	0.006	572.	148.	-3.4	0.0460	0.32	0.15	1.50	130.0	15.0	286.4	2.0	0	0.00	82.	1009.	3	NAD-SFC	NoSubs
7	3	8	67	13	103.1	-9.000	-9.000	-9.000	663.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	288.1	2.0	0	0.00	74.	1008.	2	NAD-SFC	NoSubs
7	3	8	67	14	95.6	0.085	1.262	0.005	756.	60.	-1.0	0.0780	0.32	0.15	0.50	295.0	15.0	289.8	2.0	0	0.00	66.	1007.	2	NAD-SFC	NoSubs
7	3	8	67	15	79.1	0.096	1.221	0.005	825.	71.	-1.0	0.1620	0.32	0.15	0.50	301.0	15.0	290.5	2.0	0	0.00	62.	1006.	2	NAD-SFC	NoSubs
7	3	8	67	16	54.1	0.140	1.095	0.005	869.	126.	-4.6	0.1620	0.32	0.18	1.00	322.0	15.0	291.0	2.0	0	0.00	60.	1006.	2	NAD-SFC	NoSubs
7	3	8	67	17	22.4	0.081	0.821	0.005	887.	56.	-2.1	0.1620	0.32	0.25	0.50	319.0	15.0	291.1	2.0	0	0.00	62.	1005.	2	NAD-SFC	NoSubs
7	3	8	67	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	0.51	0.00	0.0	15.0	290.6	2.0	0	0.00	65.	1006.	2	NAD-SFC	NoSubs
7	3	8	67	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	289.5	2.0	0	0.00	70.	1006.	2	NAD-SFC	NoSubs
7	3	8	67	20	-3.3	0.093	-9.000	-9.000	-999.	68.	21.4	0.1620	0.32	1.00	1.00	310.0	15.0	288.5	2.0	0	0.00	75.	1006.	2	NAD-SFC	NoSubs
7	3	8	67	21	-21.0	0.222	-9.000	-9.000	-999.	251.	46.8	0.1880	0.32	1.00	2.60	331.0	15.0	287.4	2.0	0	0.00	80.	1007.	3	NAD-SFC	NoSubs
7	3	8	67	22	-28.4	0.268	-9.000	-9.000	-999.	333.	61.0	0.1880	0.32	1.00	3.10	336.0	15.0	286.2	2.0	0	0.00	83.	1008.	3	NAD-SFC	NoSubs
7	3	8	67	23	-21.1	0.222	-9.000	-9.000	-999.	252.	46.7	0.1880	0.32	1.00	2.60	357.0	15.0	285.6	2.0	0	0.00	84.	1008.	3	NAD-SFC	NoSubs
7	3	8	67	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	285.0	2.0	0	0.00	85.	1008.	3	NAD-SFC	NoSubs
7	3	9	68	1	-3.5	0.095	-9.000	-9.000	-999.	70.	21.9	0.1880	0.32	1.00	1.00	349.0	15.0	284.5	2.0	0	0.00	86.	1008.	3	NAD-SFC	NoSubs
7	3	9	68	2	-1.5	0.080	-9.000	-9.000	-999.	54.	31.1	0.1880	0.32	1.00	0.50	353.0	15.0	284.0	2.0	0	0.00	88.	1009.	3	NAD-SFC	NoSubs
7	3	9	68	3	-1.5	0.081	-9.000	-9.000	-999.	55.	31.4	0.1880	0.32	1.00	0.50	358.0	15.0	283.5	2.0	0	0.00	89.	1009.	2	NAD-SFC	NoSubs
7	3	9	68	4	-1.5	0.081	-9.000	-9.000	-999.	55.	31.4	0.1880	0.32	1.00	0.50	352.0	15.0	283.1	2.0	0	0.00	89.	1009.	2	NAD-SFC	NoSubs
7	3	9	68	5	-3.6	0.095	-9.000	-9.000	-999.	71.	22.0	0.1880	0.32	1.00	1.00	350.0	15.0	282.4	2.0	0	0.00	92.	1009.	2	NAD-SFC	NoSubs
7	3	9	68	6	-1.5	0.081	-9.000	-9.000	-999.	55.	31.5	0.1900	0.32	1.00	0.50	12.0	15.0	281.4	2.0	0	0.00	96.	1009.	2	NAD-SFC	NoSubs
7	3	9	68	7	-1.2	0.073	-9.000	-9.000	-999.	47.	29.0	0.0760	0.32	0.65	0.50	85.0	15.0	280.2	2.0	0	0.00	100.	1010.	2	NAD-SFC	NoSubs
7	3	9	68	8	11.5	-9.000	-9.000	-9.000	68.	-999.	-99999.0	0.0879	0.32	0.30	0.00	0.0	15.0	280.5	2.0	0	0.00	99.	1010.	2	NAD-SFC	NoSubs

7	3	9	68	9	44.8	-9.000	-9.000	-9.000	285.	-999.	-99999.0	0.0879	0.32	0.19	0.00	0.0	15.0	282.5	2.0	0	0.00	87.	1010.	2	NAD-SFC	NoSubs
7	3	9	68	10	72.5	-9.000	-9.000	-9.000	450.	-999.	-99999.0	0.0879	0.32	0.16	0.00	0.0	15.0	285.6	2.0	0	0.00	67.	1010.	2	NAD-SFC	NoSubs
7	3	9	68	11	92.0	-9.000	-9.000	-9.000	584.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	287.5	2.0	0	0.00	58.	1010.	2	NAD-SFC	NoSubs
7	3	9	68	12	102.7	0.099	1.254	0.009	691.	75.	-1.0	0.1620	0.32	0.14	0.50	306.0	15.0	289.1	2.0	0	0.00	52.	1009.	2	NAD-SFC	NoSubs
7	3	9	68	13	104.3	0.152	1.306	0.009	769.	142.	-3.0	0.1620	0.32	0.14	1.00	322.0	15.0	290.5	2.0	0	0.00	47.	1008.	2	NAD-SFC	NoSubs
7	3	9	68	14	96.7	0.196	1.309	0.010	835.	207.	-6.9	0.1620	0.32	0.15	1.50	324.0	15.0	291.4	2.0	0	0.00	42.	1008.	2	NAD-SFC	NoSubs
7	3	9	68	15	80.1	0.249	1.254	0.010	886.	298.	-17.3	0.1880	0.32	0.15	2.10	330.0	15.0	291.9	2.0	0	0.00	39.	1007.	2	NAD-SFC	NoSubs
7	3	9	68	16	55.0	0.282	1.121	0.010	919.	360.	-36.7	0.1880	0.32	0.18	2.60	344.0	15.0	292.1	2.0	0	0.00	38.	1007.	2	NAD-SFC	NoSubs
7	3	9	68	17	23.1	0.224	0.843	0.010	932.	256.	-43.7	0.1880	0.32	0.25	2.10	345.0	15.0	291.8	2.0	0	0.00	43.	1007.	2	NAD-SFC	NoSubs
7	3	9	68	18	-5.6	0.125	-9.000	-9.000	-999.	110.	31.0	0.1900	0.32	0.50	1.50	5.0	15.0	291.2	2.0	0	0.00	45.	1007.	2	NAD-SFC	NoSubs
7	3	9	68	19	-1.5	0.080	-9.000	-9.000	-999.	55.	31.2	0.1900	0.32	1.00	0.50	16.0	15.0	290.1	2.0	0	0.00	49.	1008.	2	NAD-SFC	NoSubs
7	3	9	68	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	288.8	2.0	0	0.00	55.	1008.	2	NAD-SFC	NoSubs
7	3	9	68	21	-1.0	0.067	-9.000	-9.000	-999.	42.	26.8	0.0330	0.32	1.00	0.50	188.0	15.0	287.4	2.0	0	0.00	62.	1009.	2	NAD-SFC	NoSubs
7	3	9	68	22	-1.0	0.068	-9.000	-9.000	-999.	43.	27.2	0.0380	0.32	1.00	0.50	157.0	15.0	286.2	2.0	0	0.00	68.	1009.	2	NAD-SFC	NoSubs
7	3	9	68	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	285.5	2.0	0	0.00	70.	1010.	2	NAD-SFC	NoSubs
7	3	9	68	24	-1.4	0.079	-9.000	-9.000	-999.	53.	31.0	0.1620	0.32	1.00	0.50	318.0	15.0	284.9	2.0	0	0.00	72.	1010.	2	NAD-SFC	NoSubs
7	3	10	69	1	-3.4	0.093	-9.000	-9.000	-999.	68.	21.5	0.1620	0.32	1.00	1.00	329.0	15.0	284.5	2.0	0	0.00	73.	1010.	2	NAD-SFC	NoSubs
7	3	10	69	2	-3.5	0.095	-9.000	-9.000	-999.	71.	22.0	0.1880	0.32	1.00	1.00	330.0	15.0	284.2	2.0	0	0.00	74.	1010.	2	NAD-SFC	NoSubs
7	3	10	69	3	-3.4	0.093	-9.000	-9.000	-999.	68.	21.5	0.1620	0.32	1.00	1.00	329.0	15.0	283.9	2.0	0	0.00	76.	1010.	2	NAD-SFC	NoSubs
7	3	10	69	4	-3.4	0.093	-9.000	-9.000	-999.	68.	21.5	0.1620	0.32	1.00	1.00	310.0	15.0	283.5	2.0	0	0.00	79.	1010.	2	NAD-SFC	NoSubs
7	3	10	69	5	-2.8	0.085	-9.000	-9.000	-999.	59.	19.4	0.0780	0.32	1.00	1.00	297.0	15.0	283.1	2.0	0	0.00	82.	1010.	2	NAD-SFC	NoSubs
7	3	10	69	6	-3.4	0.093	-9.000	-9.000	-999.	68.	21.5	0.1620	0.32	1.00	1.00	301.0	15.0	282.8	2.0	0	0.00	85.	1010.	2	NAD-SFC	NoSubs
7	3	10	69	7	-1.2	0.072	-9.000	-9.000	-999.	47.	28.8	0.0780	0.32	0.64	0.50	289.0	15.0	282.2	2.0	0	0.00	88.	1011.	2	NAD-SFC	NoSubs
7	3	10	69	8	12.8	0.078	0.297	0.008	73.	52.	-3.3	0.1880	0.32	0.29	0.50	357.0	15.0	283.9	2.0	0	0.00	81.	1011.	2	NAD-SFC	NoSubs
7	3	10	69	9	46.1	-9.000	-9.000	-9.000	239.	-999.	-99999.0	0.0879	0.32	0.19	0.00	0.0	15.0	285.8	2.0	0	0.00	73.	1011.	2	NAD-SFC	NoSubs
7	3	10	69	10	73.6	-9.000	-9.000	-9.000	331.	-999.	-99999.0	0.0879	0.32	0.16	0.00	0.0	15.0	287.1	2.0	0	0.00	66.	1011.	2	NAD-SFC	NoSubs
7	3	10	69	11	93.0	-9.000	-9.000	-9.000	453.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	288.8	2.0	0	0.00	60.	1010.	2	NAD-SFC	NoSubs
7	3	10	69	12	103.7	0.099	1.208	0.007	612.	75.	-1.0	0.1620	0.32	0.14	0.50	305.0	15.0	290.2	2.0	0	0.00	55.	1009.	2	NAD-SFC	NoSubs
7	3	10	69	13	105.2	0.100	1.286	0.008	727.	75.	-1.0	0.1620	0.32	0.14	0.50	319.0	15.0	291.5	2.0	0	0.00	51.	1008.	2	NAD-SFC	NoSubs
7	3	10	69	14	97.6	0.150	1.302	0.008	814.	140.	-3.1	0.1620	0.32	0.15	1.00	326.0	15.0	292.4	2.0	0	0.00	48.	1008.	2	NAD-SFC	NoSubs
7	3	10	69	15	81.0	0.249	1.256	0.008	880.	299.	-17.2	0.1880	0.32	0.15	2.10	340.0	15.0	292.9	2.0	0	0.00	47.	1007.	2	NAD-SFC	NoSubs
7	3	10	69	16	55.8	0.324	1.127	0.009	922.	442.	-54.5	0.1880	0.32	0.18	3.10	348.0	15.0	292.8	2.0	0	0.00	49.	1007.	2	NAD-SFC	NoSubs
7	3	10	69	17	23.8	0.266	0.854	0.009	939.	330.	-70.8	0.1880	0.32	0.25	2.60	358.0	15.0	292.4	2.0	0	0.00	56.	1007.	2	NAD-SFC	NoSubs
7	3	10	69	18	-14.1	0.205	-9.000	-9.000	-999.	225.	55.0	0.1280	0.32	0.50	2.60	34.0	15.0	291.5	2.0	0	0.00	60.	1007.	2	NAD-SFC	NoSubs
7	3	10	69	19	-5.1	0.104	-9.000	-9.000	-999.	86.	19.8	0.0760	0.32	1.00	1.50	76.0	15.0	290.5	2.0	0	0.00	63.	1008.	2	NAD-SFC	NoSubs
7	3	10	69	20	-2.5	0.079	-9.000	-9.000	-999.	53.	18.1	0.0460	0.32	1.00	1.00	129.0	15.0	289.2	2.0	0	0.00	69.	1008.	2	NAD-SFC	NoSubs
7	3	10	69	21	-2.4	0.078	-9.000	-9.000	-999.	52.	17.7	0.0380	0.32	1.00	1.00	156.0	15.0	288.4	2.0	0	0.00	74.	1008.	2	NAD-SFC	NoSubs
7	3	10	69	22	-2.4	0.078	-9.000	-9.000	-999.	52.	17.7	0.0380	0.32	1.00	1.00	167.0	15.0	287.6	2.0	0	0.00	78.	1009.	2	NAD-SFC	NoSubs
7	3	10	69	23	-2.4	0.078	-9.000	-9.000	-999.	52.	17.8	0.0380	0.32	1.00	1.00	158.0	15.0	287.0	2.0	0	0.00	80.	1009.	2	NAD-SFC	NoSubs
7	3	10	69	24	-1.0	0.067	-9.000	-9.000	-999.	42.	26.9	0.0330	0.32	1.00	0.50	199.0	15.0	286.8	2.0	0	0.00	80.	1009.	2	NAD-SFC	NoSubs
7	3	11	70	1	-2.3	0.076	-9.000	-9.000	-999.	50.	17.3	0.0310	0.32	1.00	1.00	242.0	15.0	286.8	2.0	0	0.00	79.	1009.	2	NAD-SFC	NoSubs
7	3	11	70	2	-4.1	0.091	-9.000	-9.000	-999.	66.	16.4	0.0310	0.32	1.00	1.50	261.0	15.0	286.8	2.0	0	0.00	78.	1009.	2	NAD-SFC	NoSubs
7	3	11	70	3	-4.1	0.091	-9.000	-9.000	-999.	66.	16.4	0.0310	0.32	1.00	1.50	260.0	15.0	286.4	2.0	0	0.00	78.	1009.	2	NAD-SFC	NoSubs
7	3	11	70	4	-7.7	0.122	-9.000	-9.000	-999.	102.	21.0	0.0310	0.32	1.00	2.10	264.0	15.0	285.9	2.0	0	0.00	80.	1009.	2	NAD-SFC	NoSubs
7	3	11	70	5	-15.6	0.181	-9.000	-9.000	-999.	185.	34.4	0.0780	0.32	1.00	2.60	275.0	15.0	285.4	2.0	0	0.00	80.	1010.	2	NAD-SFC	NoSubs
7	3	11	70	6	-22.5	0.219	-9.000	-9.000	-999.	246.	42.1	0.0780	0.32	1.00	3.10	272.0	15.0	284.8	2.0	0	0.00	79.	1010.	2	NAD-SFC	NoSubs
7	3	11	70	7	-11.7	0.153	-9.000	-9.000	-999.	145.	27.4	0.0310	0.32	0.63	2.60	267.0	15.0	284.4	2.0	0	0.00	76.	1010.	2	NAD-SFC	NoSubs
7	3	11	70	8	13.9	0.250	0.299	0.010	69.	300.	-101.3	0.1620	0.32	0.29	2.60	302.0	15.0	286.0	2.0	0	0.00	65.	1010.	2	NAD-SFC	NoSubs
7	3	11	70	9	47.3	0.201	0.610	0.010	172.	217.	-15.4	0.0780	0.32	0.19	2.10	288.0	15.0	287.9	2.0	0	0.00	57.	1010.	2	NAD-SFC	NoSubs
7	3	11	70	10	74.9	0.210	0.849	0.010	294.	230.	-11.1	0.0780	0.32	0.16	2.10	284.0	15.0	289.9	2.0	0	0.00	51.	1010.	2	NAD-SFC	NoSubs
7	3	11	70	11	94.5	0.214	1.021	0.010	406.	238.	-9.4	0.0780	0.32	0.15	2.10	278.0	15.0	292.0	2.0	0	0.00	45.	1009.	2	NAD-SFC	NoSubs
7	3	11	70	12	105.2	0.248	1.134	0.010	499.	297.	-13.1	0.1620	0.32	0.14	2.10	303.0	15.0	293.5	2.0	0	0.00	42.	1008.	2	NAD-SFC	NoSubs
7	3	11	70	13	106.8	0.249	1.197	0.009	578.	297.	-12.9	0.1620	0.32	0.14	2.10	317.0	15.0	294.9	2.0	0	0.00	40.	1008.	2	NAD-SFC	NoSubs
7	3	11	70	14	99.2	0.247	1.211	0.009	644.	294.	-13.6	0.1620	0.32	0.15	2.10	327.0	15.0	296.0	2.0	0	0.00	38.	1007.	2	NAD-SFC	NoSubs
7	3	11	70	15	82.5	0.250	1.171	0.009	698.	300.	-16.9	0.1880	0.32	0.15	2.10	345.0	15.0	296.6	2.0	0	0.00	37.	1006.	2	NAD-SFC	NoSubs
7	3	11	70	16	57.5	0.241	1.056	0.008	734.	284.	-21.9	0.1880	0.32	0.18	2.10	354.0	15.0	297.1	2.0	0	0.00	33.	1006.	2	NAD-SFC	NoSubs
7	3	11	70	17	25.5	0.226	0.810	0.008	749.	258.	-40.7	0.1900	0.32	0.25	2.10	9.0	15.0	296.8	2.0	0	0.00	40.	1006.	2	NAD-SFC	NoSubs
7	3	11	70	18	-10.6	0.181	-9.000	-9.000	-999.	185.	50.2	0.1900	0.32	0.49	2.10	26.0	15.0	295.8	2.0	0	0.00	43.	1007.	2	NAD-SFC	NoSubs
7	3	11	70	19	-3.1	0.089	-9.000	-9.000	-999.	68.	20.7	0.1280	0.32	1.00	1.00	55.0	15.0	294.4	2.0	0	0.00	48.	1007.	2	NAD-SFC	NoSubs
7	3	11	70	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	293.0	2.0	0	0.00	54.	1007.	2	NAD-SFC	NoSubs
7	3	11	70	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	291.6	2.0	0	0.00	60.	1007.	2	NAD-SFC	NoSubs
7	3	11	70	22	-1.4	0.078	-9.000	-9.000	-999.	53.	30.8	0.1620	0.32	1.00	0.50	325.0	15.0	290.4	2.0	0	0.00	66.	1008.	2	NAD-SFC	NoSubs
7	3	11	70	23	-6.5	0.120	-9.000	-9.000	-999.	100.	24.1	0.1620	0.32	1.00	1.50	311.0	15.0	289.6	2.0	0	0.00	70.	1008.	2	NAD-SFC	NoSubs
7	3	11	70	24	-6.5	0.120	-9.000	-9.000	-999.	100.	24.1	0.1620	0.32	1.00	1.50	303.0	15.0	289.1	2.0	0	0.00	70.	1008.	2	NAD-SFC	NoSubs
7	3	12	71	1	-1.0	0.067	-9.000	-9.000	-999.	42.	26.7	0.0310	0.32	1.00	0.50	250.0	15.0	288.6	2.0	0	0.00	70.	1008.	2	NAD-SFC	NoSubs
7	3	12	71	2	-1.0	0.068	-9.000	-9.000	-999.	43.	27.2	0.0380	0.32	1.00	0.50	177.0	15.0	288.1	2.0	0	0.00	71.	1008.	2	NAD-SFC	NoSubs
7	3	12	71	3	-1.5	0.080	-9.000	-9.000	-999.	55.	31.3	0.1900	0.32	1.00	0.50	20.0	15.0	287.6	2.0	0	0.00	72.	1007.	2	NAD-SFC	NoSubs
7	3	12	71	4	-3.5	0.095	-9.000	-9.000	-999.	70.	21.9	0.1880	0.32	1.00	1.00	350.0	15.0	287.1	2.0	0	0.00	73.	1007.	2	NAD-SFC	NoSubs
7	3	12	71	5	-1.5	0.080	-9.000	-9.000	-999.	55.	31.3	0.1880	0.32	1.00	0.50	339.0	15.0	286.8	2.0	0	0.00	73.	1007.	2	NAD-SFC	NoSubs
7	3	12	71	6	-1.2	0.073	-9.000	-9.000	-999.	47.	29.1	0.0780	0.32	1.00	0.50	291.0	15.0	286.2	2.0	0	0.00	73.	1007.	2	NAD-SFC	NoSubs
7	3	12	71	7	-2.2	0.074	-9.000	-9.000	-999.	49.	17.1	0.0310	0.32	0.61	1.00	269.0	15.0	286.1	2.0	0	0.00	72.	1008.	2	NAD-SFC	NoSubs
7	3	12	71	8	15.1	0.142	0.275	0.011	49.	128.	-17.1	0.0780	0.32	0.28	1.50	297.0	15.0	287.8	2.0	0	0.00	62.	1008.	2	NAD-SFC	NoSubs
7	3	12	71	9	48.6	0.181	0.562	0.011	131.	185.	-11.0	0.1620	0.32	0.19	1.50	305.0	15.0	289.8	2.0	0	0.00	55.	1008.	2	NAD-SFC	NoSubs
7	3	12	71	10	76.2	0.127	0.815	0.010	255.	109.	-2.4	0.0780	0.32	0.16	1.00	299.0	15.0	291.8	2.0	0	0.00	50.	1007.	2	NAD-SFC	NoSubs
7	3	12	71	11	95.8	-9.000	-9.000	-9.000	380.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	294.1	2.0	0	0.00	43.	1007.	2	NAD-SFC	NoSubs
7	3	12	71	12	106.5	-9.000	-9.000	-9.000	482.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	295.9	2.0	0	0.00	38.	1006.	2	NAD-SFC	NoSubs
7	3	12	71	13	108.1	-9.000	-9.000	-9.000	567.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	297.2	2.0	0	0.00	36.	1005.	2	NAD-SFC	NoSubs

7	3	12	71	14	100.4	-9.000	-9.000	-9.000	637.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	298.1	2.0	0	0.00	35.	1004.	2	NAD-SFC	NoSubs
7	3	12	71	15	83.8	-9.000	-9.000	-9.000	697.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	298.8	2.0	0	0.00	34.	1003.	2	NAD-SFC	NoSubs
7	3	12	71	16	58.6	0.095	1.065	0.006	738.	70.	-1.3	0.1880	0.32	0.17	0.50	353.0	15.0	298.8	2.0	0	0.00	34.	1003.	2	NAD-SFC	NoSubs
7	3	12	71	17	26.6	-9.000	-9.000	-9.000	755.	-999.	-99999.0	0.0879	0.32	0.25	0.00	0.0	15.0	298.4	2.0	0	0.00	39.	1003.	2	NAD-SFC	NoSubs
7	3	12	71	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	0.48	0.00	0.0	15.0	297.0	2.0	0	0.00	45.	1003.	2	NAD-SFC	NoSubs
7	3	12	71	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	295.2	2.0	0	0.00	52.	1003.	2	NAD-SFC	NoSubs
7	3	12	71	20	-1.0	0.067	-9.000	-9.000	-999.	41.	26.6	0.0330	0.32	1.00	0.50	191.0	15.0	293.8	2.0	0	0.00	58.	1003.	2	NAD-SFC	NoSubs
7	3	12	71	21	-1.0	0.067	-9.000	-9.000	-999.	41.	26.7	0.0330	0.32	1.00	0.50	197.0	15.0	292.5	2.0	0	0.00	63.	1003.	2	NAD-SFC	NoSubs
7	3	12	71	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	291.4	2.0	0	0.00	67.	1003.	2	NAD-SFC	NoSubs
7	3	12	71	23	-1.2	0.072	-9.000	-9.000	-999.	47.	28.9	0.0760	0.32	1.00	0.50	67.0	15.0	290.2	2.0	0	0.00	71.	1004.	2	NAD-SFC	NoSubs
7	3	12	71	24	-1.1	0.070	-9.000	-9.000	-999.	44.	27.9	0.0510	0.32	1.00	0.50	90.0	15.0	289.2	2.0	0	0.00	75.	1004.	2	NAD-SFC	NoSubs
7	3	13	72	1	-1.1	0.070	-9.000	-9.000	-999.	44.	27.9	0.0510	0.32	1.00	0.50	106.0	15.0	288.5	2.0	0	0.00	77.	1003.	2	NAD-SFC	NoSubs
7	3	13	72	2	-1.1	0.070	-9.000	-9.000	-999.	44.	27.9	0.0510	0.32	1.00	0.50	109.0	15.0	287.9	2.0	0	0.00	78.	1003.	2	NAD-SFC	NoSubs
7	3	13	72	3	-1.1	0.070	-9.000	-9.000	-999.	44.	27.9	0.0510	0.32	1.00	0.50	117.0	15.0	287.4	2.0	0	0.00	79.	1003.	2	NAD-SFC	NoSubs
7	3	13	72	4	-1.1	0.070	-9.000	-9.000	-999.	44.	27.9	0.0510	0.32	1.00	0.50	108.0	15.0	286.9	2.0	0	0.00	80.	1003.	2	NAD-SFC	NoSubs
7	3	13	72	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	286.2	2.0	0	0.00	82.	1003.	2	NAD-SFC	NoSubs
7	3	13	72	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	285.9	2.0	0	0.00	83.	1004.	2	NAD-SFC	NoSubs
7	3	13	72	7	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	0.60	0.00	0.0	15.0	285.8	2.0	0	0.00	84.	1004.	2	NAD-SFC	NoSubs
7	3	13	72	8	15.9	-9.000	-9.000	-9.000	45.	-999.	-99999.0	0.0879	0.32	0.28	0.00	0.0	15.0	287.6	2.0	0	0.00	77.	1005.	2	NAD-SFC	NoSubs
7	3	13	72	9	49.7	-9.000	-9.000	-9.000	119.	-999.	-99999.0	0.0879	0.32	0.18	0.00	0.0	15.0	291.1	2.0	0	0.00	62.	1005.	2	NAD-SFC	NoSubs
7	3	13	72	10	77.5	-9.000	-9.000	-9.000	252.	-999.	-99999.0	0.0879	0.32	0.16	0.00	0.0	15.0	293.8	2.0	0	0.00	53.	1005.	2	NAD-SFC	NoSubs
7	3	13	72	11	97.0	-9.000	-9.000	-9.000	405.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	295.8	2.0	0	0.00	45.	1005.	2	NAD-SFC	NoSubs
7	3	13	72	12	107.7	-9.000	-9.000	-9.000	513.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	297.2	2.0	0	0.00	41.	1004.	2	NAD-SFC	NoSubs
7	3	13	72	13	109.2	-9.000	-9.000	-9.000	603.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	298.6	2.0	0	0.00	38.	1003.	2	NAD-SFC	NoSubs
7	3	13	72	14	101.6	0.102	1.245	0.007	680.	79.	-1.0	0.1880	0.32	0.15	0.50	337.0	15.0	299.5	2.0	0	0.00	36.	1003.	2	NAD-SFC	NoSubs
7	3	13	72	15	84.9	0.153	1.209	0.007	746.	143.	-3.8	0.1900	0.32	0.15	1.00	3.0	15.0	300.1	2.0	0	0.00	35.	1003.	2	NAD-SFC	NoSubs
7	3	13	72	16	59.7	0.191	1.096	0.007	789.	200.	-10.4	0.1880	0.32	0.17	1.50	358.0	15.0	300.1	2.0	0	0.00	35.	1002.	2	NAD-SFC	NoSubs
7	3	13	72	17	27.5	0.177	0.854	0.007	807.	179.	-18.0	0.1880	0.32	0.24	1.50	358.0	15.0	299.8	2.0	0	0.00	41.	1002.	2	NAD-SFC	NoSubs
7	3	13	72	18	13.1	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	0.48	0.00	0.0	15.0	298.6	2.0	0	0.00	46.	1003.	2	NAD-SFC	NoSubs
7	3	13	72	19	-1.4	0.078	-9.000	-9.000	-999.	52.	30.6	0.1620	0.32	1.00	0.50	312.0	15.0	296.9	2.0	0	0.00	53.	1003.	2	NAD-SFC	NoSubs
7	3	13	72	20	-21.7	0.220	-9.000	-9.000	-999.	247.	43.7	0.0780	0.32	1.00	3.10	272.0	15.0	295.6	2.0	0	0.00	58.	1004.	3	NAD-SFC	NoSubs
7	3	13	72	21	-39.1	0.370	-9.000	-9.000	-999.	540.	116.0	0.0780	0.32	1.00	5.10	285.0	15.0	293.0	2.0	0	0.00	73.	1004.	2	NAD-SFC	NoSubs
7	3	13	72	22	-38.4	0.370	-9.000	-9.000	-999.	541.	118.3	0.0780	0.32	1.00	5.10	275.0	15.0	291.0	2.0	0	0.00	86.	1005.	3	NAD-SFC	NoSubs
7	3	13	72	23	-43.2	0.416	-9.000	-9.000	-999.	643.	148.8	0.0780	0.32	1.00	5.70	273.0	15.0	290.4	2.0	0	0.00	89.	1005.	3	NAD-SFC	NoSubs
7	3	13	72	24	-38.6	0.370	-9.000	-9.000	-999.	542.	117.8	0.0780	0.32	1.00	5.10	279.0	15.0	289.9	2.0	0	0.00	91.	1005.	3	NAD-SFC	NoSubs
7	3	14	73	1	-15.2	0.182	-9.000	-9.000	-999.	218.	35.2	0.0780	0.32	1.00	2.60	290.0	15.0	289.6	2.0	0	0.00	92.	1006.	3	NAD-SFC	NoSubs
7	3	14	73	2	-3.4	0.094	-9.000	-9.000	-999.	76.	21.9	0.1880	0.32	1.00	1.00	332.0	15.0	289.4	2.0	0	0.00	92.	1006.	3	NAD-SFC	NoSubs
7	3	14	73	3	-1.4	0.078	-9.000	-9.000	-999.	52.	30.6	0.1900	0.32	1.00	0.50	14.0	15.0	289.2	2.0	0	0.00	92.	1007.	4	NAD-SFC	NoSubs
7	3	14	73	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	289.1	2.0	0	0.00	91.	1007.	4	NAD-SFC	NoSubs
7	3	14	73	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	288.8	2.0	0	0.00	92.	1007.	4	NAD-SFC	NoSubs
7	3	14	73	6	-1.4	0.078	-9.000	-9.000	-999.	52.	30.6	0.1880	0.32	1.00	0.50	355.0	15.0	288.2	2.0	0	0.00	93.	1007.	4	NAD-SFC	NoSubs
7	3	14	73	7	-1.2	0.072	-9.000	-9.000	-999.	47.	28.9	0.1620	0.32	0.59	0.50	326.0	15.0	288.0	2.0	0	0.00	93.	1008.	4	NAD-SFC	NoSubs
7	3	14	73	8	18.4	0.170	0.473	0.007	205.	169.	-24.1	0.1880	0.32	0.27	1.50	351.0	15.0	289.1	2.0	0	0.00	82.	1008.	4	NAD-SFC	NoSubs
7	3	14	73	9	51.1	0.090	0.748	0.006	294.	67.	-1.3	0.1620	0.32	0.18	0.50	324.0	15.0	290.8	2.0	0	0.00	74.	1008.	3	NAD-SFC	NoSubs
7	3	14	73	10	78.3	-9.000	-9.000	-9.000	395.	-999.	-99999.0	0.0879	0.32	0.16	0.00	0.0	15.0	292.1	2.0	0	0.00	69.	1008.	3	NAD-SFC	NoSubs
7	3	14	73	11	97.4	0.085	1.141	0.005	548.	60.	-1.0	0.0780	0.32	0.15	0.50	291.0	15.0	293.5	2.0	0	0.00	65.	1007.	3	NAD-SFC	NoSubs
7	3	14	73	12	107.8	0.087	1.269	0.006	681.	61.	-1.0	0.0780	0.32	0.14	0.50	298.0	15.0	294.8	2.0	0	0.00	61.	1006.	3	NAD-SFC	NoSubs
7	3	14	73	13	109.2	0.152	1.349	0.006	806.	143.	-2.9	0.1620	0.32	0.14	1.00	313.0	15.0	296.1	2.0	0	0.00	57.	1006.	2	NAD-SFC	NoSubs
7	3	14	73	14	101.4	0.197	1.369	0.007	907.	209.	-6.7	0.1620	0.32	0.15	1.50	322.0	15.0	296.8	2.0	0	0.00	53.	1005.	2	NAD-SFC	NoSubs
7	3	14	73	15	84.7	0.292	1.323	0.007	981.	379.	-26.4	0.1880	0.32	0.15	2.60	342.0	15.0	297.2	2.0	0	0.00	50.	1004.	2	NAD-SFC	NoSubs
7	3	14	73	16	59.4	0.367	1.191	0.008	1018.	533.	-74.3	0.1880	0.32	0.17	3.60	350.0	15.0	297.2	2.0	0	0.00	48.	1004.	2	NAD-SFC	NoSubs
7	3	14	73	17	27.2	0.310	0.923	0.008	1034.	416.	-97.8	0.1880	0.32	0.24	3.10	346.0	15.0	296.8	2.0	0	0.00	54.	1004.	2	NAD-SFC	NoSubs
7	3	14	73	18	-16.5	0.319	-9.000	-9.000	-999.	433.	176.1	0.1900	0.32	0.47	3.60	1.0	15.0	295.8	2.0	0	0.00	55.	1004.	2	NAD-SFC	NoSubs
7	3	14	73	19	-33.0	0.314	-9.000	-9.000	-999.	422.	83.9	0.1880	0.32	1.00	3.60	351.0	15.0	294.8	2.0	0	0.00	56.	1005.	2	NAD-SFC	NoSubs
7	3	14	73	20	-38.0	0.359	-9.000	-9.000	-999.	517.	109.4	0.1880	0.32	1.00	4.10	340.0	15.0	293.2	2.0	0	0.00	60.	1005.	2	NAD-SFC	NoSubs
7	3	14	73	21	-35.9	0.346	-9.000	-9.000	-999.	490.	103.8	0.1620	0.32	1.00	4.10	328.0	15.0	291.8	2.0	0	0.00	65.	1005.	3	NAD-SFC	NoSubs
7	3	14	73	22	-33.5	0.314	-9.000	-9.000	-999.	422.	82.6	0.1880	0.32	1.00	3.60	330.0	15.0	290.6	2.0	0	0.00	68.	1005.	2	NAD-SFC	NoSubs
7	3	14	73	23	-32.3	0.302	-9.000	-9.000	-999.	399.	76.5	0.1620	0.32	1.00	3.60	327.0	15.0	289.6	2.0	0	0.00	71.	1005.	2	NAD-SFC	NoSubs
7	3	14	73	24	-28.8	0.268	-9.000	-9.000	-999.	333.	59.9	0.1880	0.32	1.00	3.10	340.0	15.0	288.8	2.0	0	0.00	72.	1005.	2	NAD-SFC	NoSubs
7	3	15	74	1	-21.3	0.222	-9.000	-9.000	-999.	252.	46.2	0.1880	0.32	1.00	2.60	342.0	15.0	288.2	2.0	0	0.00	74.	1006.	2	NAD-SFC	NoSubs
7	3	15	74	2	-6.9	0.125	-9.000	-9.000	-999.	110.	25.2	0.1880	0.32	1.00	1.50	345.0	15.0	287.5	2.0	0	0.00	75.	1006.	2	NAD-SFC	NoSubs
7	3	15	74	3	-3.5	0.095	-9.000	-9.000	-999.	70.	21.9	0.1880	0.32	1.00	1.00	338.0	15.0	286.9	2.0	0	0.00	77.	1006.	2	NAD-SFC	NoSubs
7	3	15	74	4	-3.4	0.093	-9.000	-9.000	-999.	68.	21.5	0.1620	0.32	1.00	1.00	318.0	15.0	286.4	2.0	0	0.00	78.	1006.	2	NAD-SFC	NoSubs
7	3	15	74	5	-3.4	0.093	-9.000	-9.000	-999.	68.	21.5	0.1620	0.32	1.00	1.00	314.0	15.0	286.0	2.0	0	0.00	80.	1007.	2	NAD-SFC	NoSubs
7	3	15	74	6	-1.2	0.073	-9.000	-9.000	-999.	47.	29.1	0.0780	0.32	1.00	0.50	276.0	15.0	285.6	2.0	0	0.00	81.	1007.	2	NAD-SFC	NoSubs
7	3	15	74	7	8.2	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	0.57	0.00	0.0	15.0	285.4	2.0	0	0.00	82.	1008.	2	NAD-SFC	NoSubs
7	3	15	74	8	17.5	-9.000	-9.000	-9.000	134.	-999.	-99999.0	0.0879	0.32	0.27	0.00	0.0	15.0	286.8	2.0	0	0.00	75.	1008.	2	NAD-SFC	NoSubs
7	3	15	74	9	51.0	-9.000	-9.000	-9.000	233.	-999.	-99999.0	0.0879	0.32	0.18	0.00	0.0	15.0	288.6	2.0	0	0.00	68.	1008.	2	NAD-SFC	NoSubs
7	3	15	74	10	78.3	0.083	0.909	0.006	345.	57.	-1.0	0.0780	0.32	0.15	0.50	294.0	15.0	289.9	2.0	0	0.00	63.	1008.	2	NAD-SFC	NoSubs
7	3	15	74	11	97.5	0.150	1.088	0.005	475.	140.	-3.1	0.1620	0.32	0.15	1.00	312.0	15.0	290.8	2.0	0	0.00	59.	1007.	2	NAD-SFC	NoSubs
7	3	15	74	12	107.8	0.198	1.221	0.006	606.	211.	-6.5	0.1620	0.32	0.14	1.50	306.0	15.0	291.8	2.0	0	0.00	55.	1006.	2	NAD-SFC	NoSubs
7	3	15	74	13	109.1	0.198	1.319	0.009	755.	212.	-6.4	0.1620	0.32	0.14	1.50	316.0	15.0	292.8	2.0	0	0.00	52.	1005.	2	NAD-SFC	NoSubs
7	3	15	74	14	101.3	0.203	1.363	0.011	898.	219.	-7.4	0.1880	0.32	0.15	1.50	342.0	15.0	293.8	2.0	0	0.00	49.	1005.	2	NAD-SFC	NoSubs
7	3	15	74	15	84.6	0.199	1.323	0.013	981.	212.	-8.3	0.1880	0.32	0.15	1.50	356.0	15.0	294.5	2.0	0	0.00	47.	1004.	2	NAD-SFC	NoSubs
7	3	15	74	16	59.4	0.191	1.184	0.013	1001.	201.	-10.5	0.1900	0.32	0.17	1.50	10.0	15.0	294.9	2.0	0	0.00	48.	1004.	2	NAD-SFC	NoSubs
7	3	15	74	17	27.3	0.134	0.917	0.013	1010.	118.	-7.9	0.1900	0.32	0.24	1.00	25.0	15.0	294.9	2.0	0	0.00	51.	1004.	2	NAD-SFC	NoSubs
7	3	15	74	18	13.2	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	0.47	0.00	0.0	15.0	294.2	2.0	0	0.00	55.	1004.	2	NAD-SFC	NoSubs

7	3	15	74	19	-1.0	0.067	-9.000	-9.000	-999.	41.	26.7	0.0330	0.32	1.00	0.50	204.0	15.0	293.0	2.0	0	0.00	61.	1005.	2	NAD-SFC	NoSubs
7	3	15	74	20	-1.0	0.067	-9.000	-9.000	-999.	41.	26.7	0.0330	0.32	1.00	0.50	198.0	15.0	291.8	2.0	0	0.00	67.	1005.	2	NAD-SFC	NoSubs
7	3	15	74	21	-1.0	0.067	-9.000	-9.000	-999.	42.	26.8	0.0340	0.32	1.00	0.50	216.0	15.0	290.8	2.0	0	0.00	72.	1005.	2	NAD-SFC	NoSubs
7	3	15	74	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	289.9	2.0	0	0.00	76.	1006.	2	NAD-SFC	NoSubs
7	3	15	74	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	289.1	2.0	0	0.00	80.	1006.	2	NAD-SFC	NoSubs
7	3	15	74	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	288.5	2.0	0	0.00	83.	1006.	2	NAD-SFC	NoSubs
7	3	16	75	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	288.0	2.0	0	0.00	85.	1006.	2	NAD-SFC	NoSubs
7	3	16	75	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	287.6	2.0	0	0.00	86.	1006.	2	NAD-SFC	NoSubs
7	3	16	75	3	-1.4	0.079	-9.000	-9.000	-999.	53.	30.9	0.1620	0.32	1.00	0.50	311.0	15.0	287.2	2.0	0	0.00	87.	1006.	2	NAD-SFC	NoSubs
7	3	16	75	4	-3.4	0.093	-9.000	-9.000	-999.	68.	21.5	0.1620	0.32	1.00	1.00	301.0	15.0	286.9	2.0	0	0.00	87.	1007.	2	NAD-SFC	NoSubs
7	3	16	75	5	-5.2	0.105	-9.000	-9.000	-999.	81.	19.9	0.0780	0.32	1.00	1.50	298.0	15.0	286.6	2.0	0	0.00	85.	1007.	2	NAD-SFC	NoSubs
7	3	16	75	6	-6.5	0.120	-9.000	-9.000	-999.	100.	24.0	0.1620	0.32	1.00	1.50	301.0	15.0	286.2	2.0	0	0.00	84.	1007.	2	NAD-SFC	NoSubs
7	3	16	75	7	-2.4	0.080	-9.000	-9.000	-999.	55.	18.9	0.0780	0.32	0.56	1.00	297.0	15.0	286.0	2.0	0	0.00	82.	1007.	2	NAD-SFC	NoSubs
7	3	16	75	8	18.6	0.165	0.316	0.011	61.	162.	-21.9	0.1620	0.32	0.27	1.50	320.0	15.0	288.1	2.0	0	0.00	67.	1008.	2	NAD-SFC	NoSubs
7	3	16	75	9	52.2	0.183	0.593	0.010	143.	187.	-10.5	0.1620	0.32	0.18	1.50	311.0	15.0	290.0	2.0	0	0.00	61.	1007.	2	NAD-SFC	NoSubs
7	3	16	75	10	79.7	0.147	0.822	0.009	250.	135.	-3.6	0.1620	0.32	0.15	1.00	312.0	15.0	292.5	2.0	0	0.00	54.	1007.	2	NAD-SFC	NoSubs
7	3	16	75	11	99.3	0.099	1.005	0.009	367.	75.	-1.0	0.1620	0.32	0.15	0.50	313.0	15.0	295.1	2.0	0	0.00	46.	1007.	2	NAD-SFC	NoSubs
7	3	16	75	12	109.8	0.100	1.147	0.009	493.	76.	-1.0	0.1620	0.32	0.14	0.50	320.0	15.0	296.9	2.0	0	0.00	39.	1006.	2	NAD-SFC	NoSubs
7	3	16	75	13	111.2	0.158	1.231	0.009	601.	151.	-3.2	0.1880	0.32	0.14	1.00	346.0	15.0	298.2	2.0	0	0.00	37.	1005.	2	NAD-SFC	NoSubs
7	3	16	75	14	103.5	0.203	1.255	0.009	685.	220.	-7.3	0.1880	0.32	0.15	1.50	347.0	15.0	299.2	2.0	0	0.00	36.	1004.	2	NAD-SFC	NoSubs
7	3	16	75	15	86.7	0.251	1.217	0.008	745.	302.	-16.3	0.1880	0.32	0.15	2.10	354.0	15.0	299.9	2.0	0	0.00	35.	1004.	2	NAD-SFC	NoSubs
7	3	16	75	16	61.5	0.285	1.105	0.008	785.	365.	-33.6	0.1880	0.32	0.17	2.60	356.0	15.0	300.1	2.0	0	0.00	32.	1003.	2	NAD-SFC	NoSubs
7	3	16	75	17	29.1	0.312	0.867	0.008	802.	418.	-93.1	0.1900	0.32	0.24	3.10	8.0	15.0	299.2	2.0	0	0.00	41.	1003.	2	NAD-SFC	NoSubs
7	3	16	75	18	-11.2	0.275	-9.000	-9.000	-999.	346.	165.3	0.1900	0.32	0.46	3.10	21.0	15.0	298.0	2.0	0	0.00	45.	1003.	2	NAD-SFC	NoSubs
7	3	16	75	19	-6.8	0.125	-9.000	-9.000	-999.	124.	25.6	0.1900	0.32	1.00	1.50	16.0	15.0	296.5	2.0	0	0.00	49.	1004.	2	NAD-SFC	NoSubs
7	3	16	75	20	-2.2	0.075	-9.000	-9.000	-999.	51.	17.2	0.0310	0.32	1.00	1.00	256.0	15.0	294.9	2.0	0	0.00	55.	1004.	2	NAD-SFC	NoSubs
7	3	16	75	21	-31.1	0.295	-9.000	-9.000	-999.	384.	73.8	0.0780	0.32	1.00	4.10	278.0	15.0	293.6	2.0	0	0.00	59.	1004.	2	NAD-SFC	NoSubs
7	3	16	75	22	-35.3	0.332	-9.000	-9.000	-999.	460.	93.0	0.0780	0.32	1.00	4.60	291.0	15.0	291.2	2.0	0	0.00	66.	1004.	2	NAD-SFC	NoSubs
7	3	16	75	23	-31.5	0.295	-9.000	-9.000	-999.	385.	72.7	0.0780	0.32	1.00	4.10	286.0	15.0	289.8	2.0	0	0.00	72.	1005.	2	NAD-SFC	NoSubs
7	3	16	75	24	-27.7	0.258	-9.000	-9.000	-999.	315.	55.6	0.1620	0.32	1.00	3.10	316.0	15.0	288.8	2.0	0	0.00	75.	1005.	2	NAD-SFC	NoSubs
7	3	17	76	1	-21.3	0.223	-9.000	-9.000	-999.	253.	46.4	0.1900	0.32	1.00	2.60	7.0	15.0	288.0	2.0	0	0.00	78.	1005.	2	NAD-SFC	NoSubs
7	3	17	76	2	-18.3	0.202	-9.000	-9.000	-999.	218.	40.4	0.1280	0.32	1.00	2.60	30.0	15.0	287.2	2.0	0	0.00	82.	1005.	2	NAD-SFC	NoSubs
7	3	17	76	3	-1.5	0.080	-9.000	-9.000	-999.	66.	31.3	0.1900	0.32	1.00	0.50	27.0	15.0	286.8	2.0	0	0.00	85.	1005.	2	NAD-SFC	NoSubs
7	3	17	76	4	-1.0	0.067	-9.000	-9.000	-999.	42.	26.9	0.0340	0.32	1.00	0.50	214.0	15.0	286.6	2.0	0	0.00	85.	1005.	2	NAD-SFC	NoSubs
7	3	17	76	5	-2.3	0.077	-9.000	-9.000	-999.	51.	17.5	0.0340	0.32	1.00	1.00	212.0	15.0	286.2	2.0	0	0.00	84.	1005.	2	NAD-SFC	NoSubs
7	3	17	76	6	-1.0	0.067	-9.000	-9.000	-999.	42.	26.9	0.0330	0.32	1.00	0.50	197.0	15.0	285.9	2.0	0	0.00	85.	1005.	2	NAD-SFC	NoSubs
7	3	17	76	7	9.2	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	0.55	0.00	0.0	15.0	285.5	2.0	0	0.00	87.	1005.	2	NAD-SFC	NoSubs
7	3	17	76	8	19.5	0.109	0.390	0.015	109.	86.	-5.9	0.0780	0.32	0.26	1.00	299.0	15.0	287.8	2.0	0	0.00	76.	1006.	2	NAD-SFC	NoSubs
7	3	17	76	9	53.0	0.091	0.643	0.013	179.	66.	-1.3	0.1620	0.32	0.18	0.50	309.0	15.0	289.8	2.0	0	0.00	69.	1006.	2	NAD-SFC	NoSubs
7	3	17	76	10	80.4	0.096	0.841	0.011	265.	72.	-1.0	0.1620	0.32	0.15	0.50	304.0	15.0	291.8	2.0	0	0.00	62.	1005.	2	NAD-SFC	NoSubs
7	3	17	76	11	99.6	0.099	0.989	0.009	348.	75.	-1.0	0.1620	0.32	0.15	0.50	314.0	15.0	293.2	2.0	0	0.00	58.	1005.	2	NAD-SFC	NoSubs
7	3	17	76	12	110.0	0.153	1.107	0.008	442.	143.	-2.9	0.1620	0.32	0.14	1.00	306.0	15.0	294.8	2.0	0	0.00	53.	1004.	2	NAD-SFC	NoSubs
7	3	17	76	13	111.3	0.153	1.191	0.007	543.	143.	-2.9	0.1620	0.32	0.14	1.00	308.0	15.0	296.1	2.0	0	0.00	48.	1003.	2	NAD-SFC	NoSubs
7	3	17	76	14	103.5	0.203	1.216	0.007	623.	220.	-7.2	0.1880	0.32	0.15	1.50	335.0	15.0	297.0	2.0	0	0.00	45.	1003.	2	NAD-SFC	NoSubs
7	3	17	76	15	86.7	0.199	1.190	0.007	696.	213.	-8.1	0.1880	0.32	0.15	1.50	341.0	15.0	297.6	2.0	0	0.00	43.	1002.	2	NAD-SFC	NoSubs
7	3	17	76	16	61.4	0.285	1.090	0.007	755.	365.	-33.6	0.1880	0.32	0.17	2.60	352.0	15.0	297.8	2.0	0	0.00	43.	1002.	2	NAD-SFC	NoSubs
7	3	17	76	17	29.2	-9.000	-9.000	-9.000	781.	-999.	-99999.0	0.0879	0.32	0.24	0.00	0.0	15.0	297.5	2.0	0	0.00	49.	1002.	2	NAD-SFC	NoSubs
7	3	17	76	18	-7.3	0.183	-9.000	-9.000	-999.	188.	75.5	0.1900	0.32	0.45	2.10	8.0	15.0	296.8	2.0	0	0.00	52.	1002.	2	NAD-SFC	NoSubs
7	3	17	76	19	-1.4	0.078	-9.000	-9.000	-999.	59.	30.7	0.1880	0.32	1.00	0.50	348.0	15.0	295.2	2.0	0	0.00	57.	1002.	3	NAD-SFC	NoSubs
7	3	17	76	20	-2.2	0.076	-9.000	-9.000	-999.	50.	17.3	0.0340	0.32	1.00	1.00	230.0	15.0	293.9	2.0	0	0.00	63.	1003.	3	NAD-SFC	NoSubs
7	3	17	76	21	-16.8	0.185	-9.000	-9.000	-999.	191.	33.7	0.0310	0.32	1.00	3.10	247.0	15.0	292.6	2.0	0	0.00	68.	1003.	3	NAD-SFC	NoSubs
7	3	17	76	22	-22.5	0.217	-9.000	-9.000	-999.	243.	40.7	0.0310	0.32	1.00	3.60	261.0	15.0	291.1	2.0	0	0.00	73.	1004.	3	NAD-SFC	NoSubs
7	3	17	76	23	-34.6	0.332	-9.000	-9.000	-999.	460.	95.1	0.0780	0.32	1.00	4.60	288.0	15.0	289.9	2.0	0	0.00	77.	1004.	3	NAD-SFC	NoSubs
7	3	17	76	24	-36.2	0.346	-9.000	-9.000	-999.	489.	102.8	0.1620	0.32	1.00	4.10	308.0	15.0	289.0	2.0	0	0.00	81.	1004.	3	NAD-SFC	NoSubs
7	3	18	77	1	-27.1	0.258	-9.000	-9.000	-999.	319.	57.1	0.1620	0.32	1.00	3.10	327.0	15.0	288.4	2.0	0	0.00	82.	1005.	3	NAD-SFC	NoSubs
7	3	18	77	2	-21.0	0.222	-9.000	-9.000	-999.	252.	46.9	0.1880	0.32	1.00	2.60	332.0	15.0	288.0	2.0	0	0.00	82.	1005.	3	NAD-SFC	NoSubs
7	3	18	77	3	-6.3	0.120	-9.000	-9.000	-999.	105.	24.7	0.1620	0.32	1.00	1.50	325.0	15.0	287.5	2.0	0	0.00	83.	1005.	4	NAD-SFC	NoSubs
7	3	18	77	4	-1.3	0.077	-9.000	-9.000	-999.	51.	30.3	0.1620	0.32	1.00	0.50	321.0	15.0	287.0	2.0	0	0.00	84.	1005.	4	NAD-SFC	NoSubs
7	3	18	77	5	-1.1	0.070	-9.000	-9.000	-999.	44.	27.9	0.0780	0.32	1.00	0.50	288.0	15.0	286.6	2.0	0	0.00	86.	1005.	5	NAD-SFC	NoSubs
7	3	18	77	6	-1.3	0.075	-9.000	-9.000	-999.	50.	29.8	0.1620	0.32	1.00	0.50	324.0	15.0	286.2	2.0	0	0.00	87.	1006.	5	NAD-SFC	NoSubs
7	3	18	77	7	-1.0	0.068	-9.000	-9.000	-999.	42.	27.4	0.1900	0.32	0.54	0.50	3.0	15.0	285.9	2.0	0	0.00	89.	1006.	5	NAD-SFC	NoSubs
7	3	18	77	8	21.4	0.130	0.459	0.006	161.	113.	-9.3	0.1900	0.32	0.26	1.00	24.0	15.0	286.2	2.0	0	0.00	89.	1006.	4	NAD-SFC	NoSubs
7	3	18	77	9	53.9	0.145	0.821	0.007	368.	132.	-5.1	0.1900	0.32	0.18	1.00	23.0	15.0	286.8	2.0	0	0.00	88.	1006.	3	NAD-SFC	NoSubs
7	3	18	77	10	80.7	-9.000	-9.000	-9.000	490.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	287.4	2.0	0	0.00	85.	1006.	3	NAD-SFC	NoSubs
7	3	18	77	11	99.4	-9.000	-9.000	-9.000	601.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	288.2	2.0	0	0.00	80.	1006.	3	NAD-SFC	NoSubs
7	3	18	77	12	109.6	-9.000	-9.000	-9.000	696.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	289.8	2.0	0	0.00	73.	1005.	2	NAD-SFC	NoSubs
7	3	18	77	13	110.9	-9.000	-9.000	-9.000	771.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	291.5	2.0	0	0.00	65.	1004.	2	NAD-SFC	NoSubs
7	3	18	77	14	103.0	-9.000	-9.000	-9.000	836.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	292.8	2.0	0	0.00	59.	1003.	2	NAD-SFC	NoSubs
7	3	18	77	15	86.2	0.101	1.288	0.005	886.	77.	-1.1	0.1900	0.32	0.15	0.50	25.0	15.0	293.8	2.0	0	0.00	54.	1003.	2	NAD-SFC	NoSubs
7	3	18	77	16	61.0	0.177	1.162	0.005	920.	179.	-8.2	0.1280	0.32	0.17	1.50	34.0	15.0	294.1	2.0	0	0.00	52.	1003.	2	NAD-SFC	NoSubs
7	3	18	77	17	28.8	0.211	0.910	0.005	935.	233.	-29.3	0.1280	0.32	0.23	2.10	40.0	15.0	294.0	2.0	0	0.00	57.	1002.	2	NAD-SFC	NoSubs
7	3	18	77	18	-7.1	0.209	-9.000	-9.000	-999.	229.	113.9	0.1280	0.32	0.45	2.60	47.0	15.0	293.4	2.0	0	0.00	60.	1003.	3	NAD-SFC	NoSubs
7	3	18	77	19	-9.6	0.143	-9.000	-9.000	-999.	131.	27.4	0.0760	0.32	1.00	2.10	73.0	15.0	292.2	2.0	0	0.00	64.	1003.	3	NAD-SFC	NoSubs
7	3	18	77	20	-2.4	0.078	-9.000	-9.000	-999.	54.	18.0	0.0460	0.32	1.00	1.00	137.0	15.0	291.1	2.0	0	0.00	70.	1004.	3	NAD-SFC	NoSubs
7	3	18	77	21	-2.3	0.077	-9.000	-9.000	-999.	51.	17.6	0.0380	0.32	1.00	1.00	169.0	15.0	290.0	2.0	0	0.00	76.	1004.	3	NAD-SFC	NoSubs
7	3	18	77	22	-2.3	0.077	-9.000	-9.000	-999.	51.	17.6	0.0380	0.32	1.00	1.00	162.0	15.0	289.2	2.0	0	0.00	79.	1004.	3	NAD-SFC	NoSubs
7	3	18	77	23	-1.1	0.069	-9.000	-9.000	-999.	44.	27.6	0.0510	0.32	1.00	0.50	114.0	15.0	288.2	2.0	0	0.00	83.	1005.	3	NAD-SFC	NoSubs

7	3	18	77	24	-3.4	0.094	-9.000	-9.000	-999.	70.	21.9	0.1900	0.32	1.00	1.00	8.0	15.0	287.5	2.0	0	0.00	86.	1005.	3	NAD-SFC	NoSubs
7	3	19	78	1	-28.3	0.269	-9.000	-9.000	-999.	335.	61.5	0.1900	0.32	1.00	3.10	5.0	15.0	287.0	2.0	0	0.00	89.	1005.	3	NAD-SFC	NoSubs
7	3	19	78	2	-28.4	0.269	-9.000	-9.000	-999.	335.	61.4	0.1900	0.32	1.00	3.10	12.0	15.0	286.5	2.0	0	0.00	92.	1006.	3	NAD-SFC	NoSubs
7	3	19	78	3	-13.6	0.177	-9.000	-9.000	-999.	182.	36.6	0.1900	0.32	1.00	2.10	17.0	15.0	286.5	2.0	0	0.00	92.	1006.	3	NAD-SFC	NoSubs
7	3	19	78	4	-6.7	0.125	-9.000	-9.000	-999.	106.	25.9	0.1900	0.32	1.00	1.50	23.0	15.0	286.5	2.0	0	0.00	91.	1006.	4	NAD-SFC	NoSubs
7	3	19	78	5	-3.4	0.094	-9.000	-9.000	-999.	69.	21.9	0.1900	0.32	1.00	1.00	10.0	15.0	286.4	2.0	0	0.00	91.	1006.	4	NAD-SFC	NoSubs
7	3	19	78	6	-3.4	0.094	-9.000	-9.000	-999.	69.	21.9	0.1900	0.32	1.00	1.00	8.0	15.0	286.2	2.0	0	0.00	92.	1006.	4	NAD-SFC	NoSubs
7	3	19	78	7	-2.6	0.087	-9.000	-9.000	-999.	62.	22.3	0.1900	0.32	0.52	1.00	2.0	15.0	286.2	2.0	0	0.00	92.	1006.	4	NAD-SFC	NoSubs
7	3	19	78	8	21.8	0.173	0.484	0.006	186.	173.	-21.4	0.1900	0.32	0.26	1.50	15.0	15.0	286.1	2.0	0	0.00	92.	1007.	3	NAD-SFC	NoSubs
7	3	19	78	9	54.8	0.091	0.801	0.006	337.	69.	-1.2	0.1620	0.32	0.18	0.50	327.0	15.0	286.5	2.0	0	0.00	90.	1007.	3	NAD-SFC	NoSubs
7	3	19	78	10	81.5	-9.000	-9.000	-9.000	478.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	287.5	2.0	0	0.00	85.	1006.	3	NAD-SFC	NoSubs
7	3	19	78	11	100.3	-9.000	-9.000	-9.000	606.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	288.8	2.0	0	0.00	80.	1006.	3	NAD-SFC	NoSubs
7	3	19	78	12	110.5	-9.000	-9.000	-9.000	733.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	290.8	2.0	0	0.00	72.	1005.	2	NAD-SFC	NoSubs
7	3	19	78	13	111.7	-9.000	-9.000	-9.000	848.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	291.9	2.0	0	0.00	67.	1004.	2	NAD-SFC	NoSubs
7	3	19	78	14	103.6	0.099	1.396	0.011	941.	75.	-1.0	0.1620	0.32	0.14	0.50	320.0	15.0	292.4	2.0	0	0.00	64.	1004.	2	NAD-SFC	NoSubs
7	3	19	78	15	86.6	-9.000	-9.000	-9.000	992.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	292.8	2.0	0	0.00	63.	1003.	2	NAD-SFC	NoSubs
7	3	19	78	16	61.3	0.178	1.203	0.011	1016.	180.	-8.2	0.1280	0.32	0.17	1.50	43.0	15.0	292.9	2.0	0	0.00	64.	1003.	2	NAD-SFC	NoSubs
7	3	19	78	17	29.1	0.150	0.942	0.011	1027.	139.	-10.4	0.0760	0.32	0.23	1.50	72.0	15.0	292.8	2.0	0	0.00	67.	1003.	2	NAD-SFC	NoSubs
7	3	19	78	18	-2.5	0.097	-9.000	-9.000	-999.	73.	32.3	0.0510	0.32	0.44	1.50	91.0	15.0	292.2	2.0	0	0.00	70.	1004.	3	NAD-SFC	NoSubs
7	3	19	78	19	-1.0	0.066	-9.000	-9.000	-999.	41.	26.4	0.0380	0.32	1.00	0.50	174.0	15.0	291.8	2.0	0	0.00	73.	1004.	4	NAD-SFC	NoSubs
7	3	19	78	20	-3.9	0.090	-9.000	-9.000	-999.	65.	16.7	0.0310	0.32	1.00	1.50	243.0	15.0	291.2	2.0	0	0.00	76.	1005.	4	NAD-SFC	NoSubs
7	3	19	78	21	-25.0	0.249	-9.000	-9.000	-999.	299.	55.5	0.0310	0.32	1.00	4.10	258.0	15.0	290.2	2.0	0	0.00	79.	1006.	4	NAD-SFC	NoSubs
7	3	19	78	22	-33.6	0.333	-9.000	-9.000	-999.	460.	98.3	0.0780	0.32	1.00	4.60	271.0	15.0	288.4	2.0	0	0.00	84.	1006.	4	NAD-SFC	NoSubs
7	3	19	78	23	-26.7	0.296	-9.000	-9.000	-999.	387.	87.0	0.0780	0.32	1.00	4.10	271.0	15.0	287.8	2.0	0	0.00	86.	1007.	6	NAD-SFC	NoSubs
7	3	19	78	24	-16.4	0.219	-9.000	-9.000	-999.	248.	57.4	0.0310	0.32	1.00	3.60	268.0	15.0	287.4	2.0	0	0.00	87.	1007.	8	NAD-SFC	NoSubs
7	3	20	79	1	-12.3	0.223	-9.000	-9.000	-999.	253.	81.2	0.0780	0.32	1.00	3.10	274.0	15.0	287.2	2.0	0	0.00	88.	1007.	10	NAD-SFC	NoSubs
7	3	20	79	2	-8.8	0.145	-9.000	-9.000	-999.	135.	31.3	0.0780	0.32	1.00	2.10	278.0	15.0	287.2	2.0	0	0.00	87.	1007.	7	NAD-SFC	NoSubs
7	3	20	79	3	-1.0	0.068	-9.000	-9.000	-999.	45.	27.4	0.1620	0.32	1.00	0.50	312.0	15.0	287.4	2.0	0	0.00	87.	1006.	8	NAD-SFC	NoSubs
7	3	20	79	4	-3.6	0.103	-9.000	-9.000	-999.	79.	27.0	0.0780	0.32	1.00	1.50	291.0	15.0	287.5	2.0	0	0.00	87.	1006.	10	NAD-SFC	NoSubs
7	3	20	79	5	-1.3	0.074	-9.000	-9.000	-999.	49.	29.5	0.1880	0.32	1.00	0.50	353.0	15.0	287.5	2.0	0	0.00	87.	1006.	6	NAD-SFC	NoSubs
7	3	20	79	6	-1.0	0.068	-9.000	-9.000	-999.	43.	27.3	0.0510	0.32	1.00	0.50	117.0	15.0	287.4	2.0	0	0.00	89.	1006.	4	NAD-SFC	NoSubs
7	3	20	79	7	-1.8	0.070	-9.000	-9.000	-999.	45.	17.2	0.0460	0.32	0.51	1.00	125.0	15.0	287.2	2.0	0	0.00	90.	1006.	3	NAD-SFC	NoSubs
7	3	20	79	8	22.9	0.131	0.644	0.006	416.	113.	-8.7	0.0380	0.32	0.25	1.50	162.0	15.0	287.5	2.0	0	0.00	90.	1006.	3	NAD-SFC	NoSubs
7	3	20	79	9	56.0	0.105	0.938	0.006	530.	82.	-1.9	0.0330	0.32	0.18	1.00	206.0	15.0	288.4	2.0	0	0.00	80.	1006.	3	NAD-SFC	NoSubs
7	3	20	79	10	82.6	0.110	1.150	0.006	661.	88.	-1.4	0.0330	0.32	0.15	1.00	194.0	15.0	289.2	2.0	0	0.00	74.	1006.	3	NAD-SFC	NoSubs
7	3	20	79	11	101.4	0.075	1.280	0.006	742.	49.	-1.0	0.0380	0.32	0.15	0.50	178.0	15.0	290.4	2.0	0	0.00	67.	1005.	3	NAD-SFC	NoSubs
7	3	20	79	12	89.7	-9.000	-9.000	-9.000	807.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	291.8	2.0	0	0.00	58.	1004.	7	NAD-SFC	NoSubs
7	3	20	79	13	27.2	0.129	0.856	0.005	826.	111.	-7.0	0.0310	0.32	0.14	1.50	247.0	15.0	292.2	2.0	0	0.00	54.	1004.	10	NAD-SFC	NoSubs
7	3	20	79	14	70.0	0.241	1.195	0.005	873.	283.	-17.8	0.0310	0.32	0.14	3.10	264.0	15.0	292.2	2.0	0	0.00	54.	1003.	8	NAD-SFC	NoSubs
7	3	20	79	15	58.9	0.328	1.144	0.005	910.	450.	-53.5	0.0310	0.32	0.15	4.60	259.0	15.0	292.2	2.0	0	0.00	54.	1003.	8	NAD-SFC	NoSubs
7	3	20	79	16	14.5	0.378	0.720	0.005	919.	557.	-332.5	0.0310	0.32	0.17	5.70	256.0	15.0	292.2	2.0	0	0.00	54.	1002.	10	NAD-SFC	NoSubs
7	3	20	79	17	25.6	0.346	0.875	0.005	933.	490.	-144.8	0.0310	0.32	0.23	5.10	258.0	15.0	291.4	2.0	0	0.51	66.	1002.	7	NAD-SFC	NoSubs
7	3	20	79	18	-9.3	0.361	-9.000	-9.000	-999.	521.	454.1	0.0310	0.32	0.44	5.70	269.0	15.0	289.4	2.0	0	0.25	75.	1003.	4	NAD-SFC	NoSubs
7	3	20	79	19	-33.8	0.352	-9.000	-9.000	-999.	501.	115.3	0.0310	0.32	1.00	5.70	266.0	15.0	287.9	2.0	0	0.00	80.	1004.	5	NAD-SFC	NoSubs
7	3	20	79	20	-29.3	0.353	-9.000	-9.000	-999.	503.	134.0	0.0310	0.32	1.00	5.70	269.0	15.0	287.1	2.0	0	0.00	84.	1004.	7	NAD-SFC	NoSubs
7	3	20	79	21	-23.2	0.421	-9.000	-9.000	-999.	656.	288.2	0.0780	0.32	1.00	5.70	281.0	15.0	286.6	2.0	0	0.00	85.	1005.	10	NAD-SFC	NoSubs
7	3	20	79	22	-25.4	0.460	-9.000	-9.000	-999.	748.	342.9	0.0780	0.32	1.00	6.20	278.0	15.0	286.2	2.0	0	0.00	84.	1005.	10	NAD-SFC	NoSubs
7	3	20	79	23	-38.1	0.456	-9.000	-9.000	-999.	739.	222.6	0.0780	0.32	1.00	6.20	276.0	15.0	285.6	2.0	0	0.25	84.	1005.	7	NAD-SFC	NoSubs
7	3	20	79	24	-20.8	0.375	-9.000	-9.000	-999.	556.	227.3	0.0780	0.32	1.00	5.10	283.0	15.0	285.2	2.0	0	0.25	82.	1005.	10	NAD-SFC	NoSubs
7	3	21	80	1	-14.5	0.261	-9.000	-9.000	-999.	328.	110.0	0.0780	0.32	1.00	3.60	283.0	15.0	285.1	2.0	0	0.25	82.	1005.	10	NAD-SFC	NoSubs
7	3	21	80	2	-16.6	0.299	-9.000	-9.000	-999.	392.	143.9	0.0780	0.32	1.00	4.10	288.0	15.0	284.5	2.0	0	0.51	80.	1005.	10	NAD-SFC	NoSubs
7	3	21	80	3	-14.5	0.261	-9.000	-9.000	-999.	320.	109.6	0.0780	0.32	1.00	3.60	287.0	15.0	284.1	2.0	0	0.51	78.	1006.	10	NAD-SFC	NoSubs
7	3	21	80	4	-14.6	0.261	-9.000	-9.000	-999.	320.	109.5	0.0780	0.32	1.00	3.60	279.0	15.0	283.9	2.0	0	0.25	77.	1006.	10	NAD-SFC	NoSubs
7	3	21	80	5	-14.6	0.261	-9.000	-9.000	-999.	320.	109.4	0.0780	0.32	1.00	3.60	277.0	15.0	283.8	2.0	0	0.00	77.	1006.	10	NAD-SFC	NoSubs
7	3	21	80	6	-14.6	0.261	-9.000	-9.000	-999.	320.	109.3	0.0780	0.32	1.00	3.60	296.0	15.0	283.4	2.0	0	0.00	77.	1006.	10	NAD-SFC	NoSubs
7	3	21	80	7	-14.4	0.307	-9.000	-9.000	-999.	409.	181.0	0.1620	0.32	0.50	3.60	309.0	15.0	283.1	2.0	0	0.00	75.	1007.	10	NAD-SFC	NoSubs
7	3	21	80	8	22.2	0.421	0.759	0.005	708.	656.	-302.8	0.1620	0.32	0.25	4.60	326.0	15.0	283.2	2.0	0	0.00	67.	1007.	6	NAD-SFC	NoSubs
7	3	21	80	9	54.3	0.365	1.073	0.006	818.	531.	-80.2	0.1880	0.32	0.17	3.60	340.0	15.0	284.2	2.0	0	0.00	62.	1007.	5	NAD-SFC	NoSubs
7	3	21	80	10	79.4	0.249	1.283	0.006	956.	306.	-17.4	0.1880	0.32	0.15	2.10	344.0	15.0	285.2	2.0	0	0.00	58.	1007.	5	NAD-SFC	NoSubs
7	3	21	80	11	23.6	0.128	0.864	0.007	981.	119.	-7.9	0.1620	0.32	0.15	1.00	326.0	15.0	286.2	2.0	0	0.00	54.	1006.	10	NAD-SFC	NoSubs
7	3	21	80	12	99.7	0.099	1.425	0.006	1041.	75.	-1.0	0.1620	0.32	0.14	0.50	316.0	15.0	287.1	2.0	0	0.00	51.	1005.	6	NAD-SFC	NoSubs
7	3	21	80	13	110.8	0.153	1.506	0.006	1105.	143.	-2.9	0.1620	0.32	0.14	1.00	324.0	15.0	288.2	2.0	0	0.00	48.	1004.	4	NAD-SFC	NoSubs
7	3	21	80	14	102.9	0.203	1.494	0.006	1161.	220.	-7.3	0.1880	0.32	0.14	1.50	339.0	15.0	288.9	2.0	0	0.00	46.	1003.	4	NAD-SFC	NoSubs
7	3	21	80	15	86.4	0.251	1.427	0.006	1206.	302.	-16.4	0.1880	0.32	0.15	2.10	346.0	15.0	289.2	2.0	0	0.00	46.	1003.	4	NAD-SFC	NoSubs
7	3	21	80	16	61.8	0.285	1.289	0.006	1238.	365.	-33.4	0.1880	0.32	0.17	2.60	336.0	15.0	289.6	2.0	0	0.00	46.	1002.	4	NAD-SFC	NoSubs
7	3	21	80	17	30.3	0.229	1.020	0.006	1253.	264.	-35.3	0.1880	0.32	0.23	2.10	338.0	15.0	289.6	2.0	0	0.00	47.	1002.	3	NAD-SFC	NoSubs
7	3	21	80	18	-1.6	0.083	-9.000	-9.000	-999.	79.	32.0	0.1880	0.32	0.43	1.00	332.0	15.0	289.2	2.0	0	0.00	51.	1003.	3	NAD-SFC	NoSubs
7	3	21	80	19	-1.4	0.078	-9.000	-9.000	-999.	52.	30.6	0.1620	0.32	1.00	0.50	326.0	15.0	288.5	2.0	0	0.00	55.	1003.	3	NAD-SFC	NoSubs
7	3	21	80	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	287.4	2.0	0	0.00	60.	1004.	3	NAD-SFC	NoSubs
7	3	21	80	21	-1.1	0.069	-9.000	-9.000	-999.	43.	27.4	0.0460	0.32	1.00	0.50	135.0	15.0	286.2	2.0	0	0.00	67.	1004.	3	NAD-SFC	NoSubs
7	3	21	80	22	-8.5	0.130	-9.000	-9.000	-999.	113.	23.2	0.0460	0.32	1.00	2.10	142.0	15.0	285.1	2.0	0	0.00	72.	1005.	2	NAD-SFC	NoSubs
7	3	21	80	23	-12.6	0.158	-9.000	-9.000	-999.	151.	28.0	0.0380	0.32	1.00	2.60	151.0	15.0	284.4	2.0	0	0.00	75.	1005.	2	NAD-SFC	NoSubs
7	3	21	80	24	-12.6	0.158	-9.000	-9.000	-999.	151.	28.0	0.0380	0.32	1.00	2.60	162.0	15.0	283.9	2.0	0	0.00	75.	1004.	2	NAD-SFC	NoSubs
7	3	22	81	1	-4.2	0.093	-9.000	-9.000	-999.	69.	17.1	0.0380	0.32	1.00	1.50	162.0	15.0	283.5	2.0	0	0.00	75.	1004.	3	NAD-SFC	NoSubs
7	3	22	81	2	-1.0	0.067	-9.000	-9.000	-999.	42.	26.8	0.0340	0.32	1.00	0.50	215.0	15.0	283.2	2.0	0	0.00	75.	1004.	3	NAD-SFC	NoSubs
7	3	22	81	3	-5.1	0.104	-9.000	-9.000	-999.	81.	19.9	0.0780	0.32	1.00	1.50	273.0	15.0	282.9	2.0	0	0.00	74.	1005.	3	NAD-SFC	NoSubs
7	3	22	81	4	-15.4	0.181	-9.000	-9.000	-999.	185.	34.7	0.0780	0.32	1.00	2.60	285.0	15.0	282.5	2.0	0	0.00	74.	1005.	3	NAD-SFC	NoSubs

7	3	22	81	5	-15.4	0.181	-9.000	-9.000	-999.	185.	34.7	0.0780	0.32	1.00	2.60	279.0	15.0	282.0	2.0	0	0.00	75.	1005.	3	NAD-SFC NoSubs
7	3	22	81	6	-15.4	0.181	-9.000	-9.000	-999.	185.	34.7	0.0780	0.32	1.00	2.60	283.0	15.0	281.8	2.0	0	0.00	75.	1005.	3	NAD-SFC NoSubs
7	3	22	81	7	-9.7	0.155	-9.000	-9.000	-999.	147.	34.6	0.0310	0.32	0.49	2.60	256.0	15.0	281.6	2.0	0	0.00	74.	1005.	3	NAD-SFC NoSubs
7	3	22	81	8	24.1	0.191	0.380	0.007	81.	200.	-25.7	0.0780	0.32	0.25	2.10	296.0	15.0	283.8	2.0	0	0.00	63.	1005.	3	NAD-SFC NoSubs
7	3	22	81	9	56.8	0.161	0.654	0.008	176.	155.	-6.6	0.0780	0.32	0.17	1.50	275.0	15.0	285.8	2.0	0	0.00	57.	1005.	2	NAD-SFC NoSubs
7	3	22	81	10	83.8	0.143	0.920	0.007	333.	130.	-3.1	0.0310	0.32	0.15	1.50	256.0	15.0	288.2	2.0	0	0.00	49.	1004.	2	NAD-SFC NoSubs
7	3	22	81	11	102.8	0.146	1.113	0.006	480.	134.	-2.7	0.0310	0.32	0.14	1.50	261.0	15.0	290.1	2.0	0	0.00	45.	1004.	2	NAD-SFC NoSubs
7	3	22	81	12	112.9	0.133	1.240	0.005	605.	116.	-1.9	0.0780	0.32	0.14	1.00	286.0	15.0	291.8	2.0	0	0.00	42.	1003.	2	NAD-SFC NoSubs
7	3	22	81	13	113.9	0.153	1.320	0.005	722.	144.	-2.8	0.1620	0.32	0.14	1.00	313.0	15.0	293.1	2.0	0	0.00	38.	1002.	2	NAD-SFC NoSubs
7	3	22	81	14	105.9	0.152	1.348	0.005	827.	142.	-3.0	0.1620	0.32	0.14	1.00	316.0	15.0	294.1	2.0	0	0.00	35.	1001.	2	NAD-SFC NoSubs
7	3	22	81	15	88.9	0.200	1.310	0.005	905.	214.	-8.0	0.1880	0.32	0.15	1.50	332.0	15.0	294.6	2.0	0	0.00	34.	1001.	2	NAD-SFC NoSubs
7	3	22	81	16	63.5	0.243	1.194	0.005	957.	288.	-20.3	0.1880	0.32	0.17	2.10	340.0	15.0	294.8	2.0	0	0.00	34.	1000.	2	NAD-SFC NoSubs
7	3	22	81	17	31.1	-9.000	-9.000	-9.000	985.	-999.	-99999.0	0.0879	0.32	0.23	0.00	0.0	15.0	294.6	2.0	0	0.00	41.	1000.	2	NAD-SFC NoSubs
7	3	22	81	18	-6.3	0.231	-9.000	-9.000	-999.	266.	174.4	0.1900	0.32	0.43	2.60	24.0	15.0	293.8	2.0	0	0.00	45.	1000.	2	NAD-SFC NoSubs
7	3	22	81	19	-18.1	0.202	-9.000	-9.000	-999.	218.	40.8	0.1280	0.32	1.00	2.60	38.0	15.0	292.5	2.0	0	0.00	50.	1001.	2	NAD-SFC NoSubs
7	3	22	81	20	-3.1	0.089	-9.000	-9.000	-999.	72.	20.7	0.1280	0.32	1.00	1.00	37.0	15.0	291.2	2.0	0	0.00	55.	1001.	2	NAD-SFC NoSubs
7	3	22	81	21	-1.0	0.067	-9.000	-9.000	-999.	42.	26.8	0.0330	0.32	1.00	0.50	183.0	15.0	289.8	2.0	0	0.00	62.	1001.	2	NAD-SFC NoSubs
7	3	22	81	22	-4.1	0.092	-9.000	-9.000	-999.	66.	16.6	0.0330	0.32	1.00	1.50	190.0	15.0	288.2	2.0	0	0.00	68.	1002.	2	NAD-SFC NoSubs
7	3	22	81	23	-2.3	0.077	-9.000	-9.000	-999.	51.	17.5	0.0330	0.32	1.00	1.00	189.0	15.0	287.6	2.0	0	0.00	69.	1002.	2	NAD-SFC NoSubs
7	3	22	81	24	-2.5	0.080	-9.000	-9.000	-999.	55.	18.4	0.0510	0.32	1.00	1.00	103.0	15.0	286.8	2.0	0	0.00	71.	1002.	2	NAD-SFC NoSubs
7	3	23	82	1	-2.5	0.080	-9.000	-9.000	-999.	55.	18.4	0.0510	0.32	1.00	1.00	91.0	15.0	286.0	2.0	0	0.00	73.	1002.	2	NAD-SFC NoSubs
7	3	23	82	2	-2.5	0.080	-9.000	-9.000	-999.	55.	18.4	0.0510	0.32	1.00	1.00	105.0	15.0	285.5	2.0	0	0.00	74.	1002.	2	NAD-SFC NoSubs
7	3	23	82	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	285.2	2.0	0	0.00	75.	1003.	2	NAD-SFC NoSubs
7	3	23	82	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	285.1	2.0	0	0.00	75.	1003.	2	NAD-SFC NoSubs
7	3	23	82	5	-1.2	0.073	-9.000	-9.000	-999.	47.	29.1	0.0780	0.32	1.00	0.50	276.0	15.0	285.1	2.0	0	0.00	74.	1003.	2	NAD-SFC NoSubs
7	3	23	82	6	-2.8	0.084	-9.000	-9.000	-999.	59.	19.4	0.0780	0.32	1.00	1.00	276.0	15.0	285.2	2.0	0	0.00	74.	1004.	2	NAD-SFC NoSubs
7	3	23	82	7	-4.0	0.102	-9.000	-9.000	-999.	79.	24.0	0.0780	0.32	0.48	1.50	280.0	15.0	285.1	2.0	0	0.00	75.	1004.	2	NAD-SFC NoSubs
7	3	23	82	8	24.7	0.259	0.364	0.006	69.	316.	-62.6	0.1620	0.32	0.24	2.60	322.0	15.0	287.0	2.0	0	0.00	66.	1004.	2	NAD-SFC NoSubs
7	3	23	82	9	58.1	0.185	0.679	0.006	192.	192.	-9.7	0.1620	0.32	0.17	1.50	314.0	15.0	288.8	2.0	0	0.00	59.	1005.	2	NAD-SFC NoSubs
7	3	23	82	10	85.2	0.129	0.959	0.006	371.	111.	-2.2	0.0780	0.32	0.15	1.00	293.0	15.0	290.9	2.0	0	0.00	50.	1004.	2	NAD-SFC NoSubs
7	3	23	82	11	104.0	0.086	1.188	0.007	577.	61.	-1.0	0.0780	0.32	0.14	0.50	285.0	15.0	292.4	2.0	0	0.00	47.	1004.	2	NAD-SFC NoSubs
7	3	23	82	12	114.0	0.087	1.311	0.007	708.	62.	-1.0	0.0780	0.32	0.14	0.50	280.0	15.0	293.8	2.0	0	0.00	44.	1003.	2	NAD-SFC NoSubs
7	3	23	82	13	115.0	0.087	1.364	0.006	790.	62.	-1.0	0.0780	0.32	0.14	0.50	278.0	15.0	294.9	2.0	0	0.00	41.	1002.	2	NAD-SFC NoSubs
7	3	23	82	14	107.0	0.087	1.370	0.006	860.	61.	-1.0	0.0780	0.32	0.14	0.50	288.0	15.0	295.9	2.0	0	0.00	38.	1002.	2	NAD-SFC NoSubs
7	3	23	82	15	90.0	0.149	1.320	0.005	915.	138.	-3.3	0.1620	0.32	0.15	1.00	322.0	15.0	296.6	2.0	0	0.00	35.	1001.	2	NAD-SFC NoSubs
7	3	23	82	16	64.5	0.193	1.198	0.005	951.	203.	-9.9	0.1880	0.32	0.17	1.50	337.0	15.0	296.8	2.0	0	0.00	34.	1001.	2	NAD-SFC NoSubs
7	3	23	82	17	32.2	0.230	0.956	0.005	969.	265.	-33.7	0.1880	0.32	0.23	2.10	347.0	15.0	296.4	2.0	0	0.00	40.	1001.	2	NAD-SFC NoSubs
7	3	23	82	18	-3.7	0.185	-9.000	-9.000	-999.	192.	155.4	0.1880	0.32	0.42	2.10	355.0	15.0	295.6	2.0	0	0.00	43.	1001.	2	NAD-SFC NoSubs
7	3	23	82	19	-13.4	0.176	-9.000	-9.000	-999.	178.	36.4	0.1880	0.32	1.00	2.10	356.0	15.0	294.2	2.0	0	0.00	48.	1001.	2	NAD-SFC NoSubs
7	3	23	82	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	292.9	2.0	0	0.00	53.	1001.	2	NAD-SFC NoSubs
7	3	23	82	21	-1.2	0.072	-9.000	-9.000	-999.	47.	28.9	0.0780	0.32	1.00	0.50	283.0	15.0	291.4	2.0	0	0.00	59.	1002.	2	NAD-SFC NoSubs
7	3	23	82	22	-2.3	0.076	-9.000	-9.000	-999.	50.	17.3	0.0310	0.32	1.00	1.00	258.0	15.0	290.2	2.0	0	0.00	63.	1002.	2	NAD-SFC NoSubs
7	3	23	82	23	-2.3	0.076	-9.000	-9.000	-999.	50.	17.3	0.0310	0.32	1.00	1.00	263.0	15.0	289.2	2.0	0	0.00	66.	1003.	2	NAD-SFC NoSubs
7	3	23	82	24	-1.0	0.067	-9.000	-9.000	-999.	42.	26.9	0.0340	0.32	1.00	0.50	225.0	15.0	288.5	2.0	0	0.00	68.	1003.	2	NAD-SFC NoSubs
7	3	24	83	1	-1.0	0.067	-9.000	-9.000	-999.	41.	26.7	0.0310	0.32	1.00	0.50	267.0	15.0	287.9	2.0	0	0.00	70.	1003.	2	NAD-SFC NoSubs
7	3	24	83	2	-5.1	0.104	-9.000	-9.000	-999.	81.	19.9	0.0780	0.32	1.00	1.50	297.0	15.0	287.4	2.0	0	0.00	70.	1003.	2	NAD-SFC NoSubs
7	3	24	83	3	-9.9	0.144	-9.000	-9.000	-999.	131.	26.9	0.0780	0.32	1.00	2.10	296.0	15.0	286.9	2.0	0	0.00	73.	1004.	2	NAD-SFC NoSubs
7	3	24	83	4	-12.8	0.170	-9.000	-9.000	-999.	168.	34.0	0.1620	0.32	1.00	2.10	305.0	15.0	286.2	2.0	0	0.00	78.	1004.	2	NAD-SFC NoSubs
7	3	24	83	5	-2.8	0.084	-9.000	-9.000	-999.	62.	19.4	0.0780	0.32	1.00	1.00	292.0	15.0	285.8	2.0	0	0.00	81.	1005.	2	NAD-SFC NoSubs
7	3	24	83	6	-2.8	0.084	-9.000	-9.000	-999.	59.	19.4	0.0780	0.32	1.00	1.00	278.0	15.0	285.4	2.0	0	0.00	81.	1006.	2	NAD-SFC NoSubs
7	3	24	83	7	-3.0	0.087	-9.000	-9.000	-999.	61.	19.6	0.0310	0.32	0.47	1.50	257.0	15.0	285.2	2.0	0	0.00	81.	1006.	2	NAD-SFC NoSubs
7	3	24	83	8	25.6	0.219	0.406	0.007	93.	246.	-36.8	0.1620	0.32	0.24	2.10	309.0	15.0	287.1	2.0	0	0.00	70.	1006.	2	NAD-SFC NoSubs
7	3	24	83	9	59.0	0.142	0.677	0.009	189.	130.	-4.3	0.1620	0.32	0.17	1.00	304.0	15.0	288.9	2.0	0	0.00	62.	1007.	2	NAD-SFC NoSubs
7	3	24	83	10	86.0	0.084	0.902	0.006	306.	59.	-1.0	0.0780	0.32	0.15	0.50	276.0	15.0	290.9	2.0	0	0.00	52.	1006.	2	NAD-SFC NoSubs
7	3	24	83	11	104.8	0.086	1.076	0.005	426.	61.	-1.0	0.0780	0.32	0.14	0.50	285.0	15.0	292.6	2.0	0	0.00	48.	1006.	2	NAD-SFC NoSubs
7	3	24	83	12	114.8	0.153	1.226	0.005	576.	144.	-2.8	0.1620	0.32	0.14	1.00	303.0	15.0	294.0	2.0	0	0.00	44.	1005.	2	NAD-SFC NoSubs
7	3	24	83	13	115.7	0.154	1.332	0.005	733.	145.	-2.8	0.1620	0.32	0.14	1.00	313.0	15.0	295.2	2.0	0	0.00	41.	1005.	2	NAD-SFC NoSubs
7	3	24	83	14	107.6	0.198	1.400	0.006	914.	211.	-6.5	0.1620	0.32	0.14	1.50	327.0	15.0	296.1	2.0	0	0.00	38.	1004.	2	NAD-SFC NoSubs
7	3	24	83	15	90.5	0.252	1.363	0.007	1003.	304.	-15.8	0.1880	0.32	0.15	2.10	335.0	15.0	296.6	2.0	0	0.00	36.	1004.	2	NAD-SFC NoSubs
7	3	24	83	16	65.1	0.286	1.237	0.007	1041.	367.	-32.2	0.1880	0.32	0.17	2.60	342.0	15.0	296.8	2.0	0	0.00	36.	1003.	2	NAD-SFC NoSubs
7	3	24	83	17	32.6	0.271	0.988	0.007	1059.	339.	-54.7	0.1880	0.32	0.22	2.60	346.0	15.0	296.2	2.0	0	0.00	42.	1003.	2	NAD-SFC NoSubs
7	3	24	83	18	-4.8	0.280	-9.000	-9.000	-999.	355.	406.1	0.1900	0.32	0.42	3.10	2.0	15.0	295.2	2.0	0	0.00	46.	1004.	2	NAD-SFC NoSubs
7	3	24	83	19	-20.8	0.222	-9.000	-9.000	-999.	253.	47.5	0.1880	0.32	1.00	2.60	345.0	15.0	294.1	2.0	0	0.00	50.	1004.	3	NAD-SFC NoSubs
7	3	24	83	20	-26.6	0.258	-9.000	-9.000	-999.	315.	58.1	0.1620	0.32	1.00	3.10	304.0	15.0	293.1	2.0	0	0.00	53.	1005.	3	NAD-SFC NoSubs
7	3	24	83	21	-34.5	0.333	-9.000	-9.000	-999.	460.	95.6	0.0780	0.32	1.00	4.60	286.0	15.0	291.5	2.0	0	0.00	61.	1006.	3	NAD-SFC NoSubs
7	3	24	83	22	-34.8	0.332	-9.000	-9.000	-999.	460.	94.8	0.0780	0.32	1.00	4.60	294.0	15.0	289.2	2.0	0	0.00	74.	1007.	3	NAD-SFC NoSubs
7	3	24	83	23	-31.0	0.295	-9.000	-9.000	-999.	385.	74.3	0.0780	0.32	1.00	4.10	292.0	15.0	288.2	2.0	0	0.00	78.	1007.	3	NAD-SFC NoSubs
7	3	24	83	24	-22.1	0.219	-9.000	-9.000	-999.	249.	43.0	0.0780	0.32	1.00	3.10	288.0	15.0	287.8	2.0	0	0.00	78.	1007.	3	NAD-SFC NoSubs
7	3	25	84	1	-5.1	0.104	-9.000	-9.000	-999.	89.	20.0	0.0780	0.32	1.00	1.50	276.0	15.0	287.4	2.0	0	0.00	78.	1007.	3	NAD-SFC NoSubs
7	3	25	84	2	-1.0	0.066	-9.000	-9.000	-999.	41.	26.4	0.0310	0.32	1.00	0.50	259.0	15.0	287.1	2.0	0	0.00	79.	1007.	3	NAD-SFC NoSubs
7	3	25	84	3	-2.3	0.076	-9.000	-9.000	-999.	50.	17.4	0.0340	0.32	1.00	1.00	222.0	15.0	286.9	2.0	0	0.00	81.	1007.	3	NAD-SFC NoSubs
7	3	25	84	4	-4.1	0.092	-9.000	-9.000	-999.	67.	16.8	0.0340	0.32	1.00	1.50	222.0	15.0	286.8	2.0	0	0.00	81.	1007.	3	NAD-SFC NoSubs
7	3	25	84	5	-4.0	0.090	-9.000	-9.000	-999.	65.	16.5	0.0310	0.32	1.00	1.50	249.0	15.0	286.5	2.0	0	0.00	83.	1007.	3	NAD-SFC NoSubs
7	3	25	84	6	-5.1	0.104	-9.000	-9.000	-999.	81.	20.0	0.0780	0.32	1.00	1.50	276.0	15.0	286.1	2.0	0	0.00	85.	1007.	3	NAD-SFC NoSubs
7	3	25	84	7	-7.1	0.148	-9.000	-9.000	-999.	137.	41.0	0.0780	0.32	0.46	2.10	299.0	15.0	285.8	2.0	0	0.00	88.	1008.	3	NAD-SFC NoSubs
7	3	25	84	8	27.2	0.268	0.510	0.008	175.	333.	-63.6	0.1880	0.32	0.24	2.60	338.0	15.0	286.4	2.0	0	0.00	88.	1008.	3	NAD-SFC NoSubs
7	3	25	84	9	60.1	0.242	0.795	0.008	300.	286.	-21.2	0.1880	0.32	0.17	2.10	330.0	15.0	287.5	2.0	0	0.00	82.	1008.	3	NAD-SFC NoSubs

7	3	25	84	10	86.6	0.193	0.998	0.007	412.	204.	-7.5	0.1620	0.32	0.15	1.50	315.0	15.0	288.9	2.0	0	0.00	74.	1008.	3	NAD-SFC	NoSubs
7	3	25	84	11	105.1	0.197	1.147	0.007	516.	210.	-6.6	0.1620	0.32	0.14	1.50	312.0	15.0	290.0	2.0	0	0.00	69.	1007.	3	NAD-SFC	NoSubs
7	3	25	84	12	114.8	0.199	1.249	0.006	610.	214.	-6.2	0.1620	0.32	0.14	1.50	312.0	15.0	291.1	2.0	0	0.00	64.	1007.	3	NAD-SFC	NoSubs
7	3	25	84	13	115.6	0.200	1.319	0.005	714.	214.	-6.2	0.1620	0.32	0.14	1.50	315.0	15.0	292.0	2.0	0	0.00	60.	1006.	3	NAD-SFC	NoSubs
7	3	25	84	14	107.4	0.198	1.349	0.005	820.	211.	-6.5	0.1620	0.32	0.14	1.50	316.0	15.0	292.8	2.0	0	0.00	58.	1005.	3	NAD-SFC	NoSubs
7	3	25	84	15	90.4	0.252	1.313	0.005	899.	304.	-15.9	0.1880	0.32	0.15	2.10	334.0	15.0	293.2	2.0	0	0.00	56.	1005.	3	NAD-SFC	NoSubs
7	3	25	84	16	65.2	0.244	1.200	0.006	952.	289.	-20.0	0.1880	0.32	0.17	2.10	345.0	15.0	293.2	2.0	0	0.00	57.	1005.	3	NAD-SFC	NoSubs
7	3	25	84	17	33.1	0.230	0.967	0.006	978.	266.	-33.1	0.1880	0.32	0.22	2.10	353.0	15.0	293.1	2.0	0	0.00	62.	1005.	3	NAD-SFC	NoSubs
7	3	25	84	18	-1.8	0.188	-9.000	-9.000	-999.	196.	339.0	0.1880	0.32	0.41	2.10	347.0	15.0	292.5	2.0	0	0.00	64.	1005.	3	NAD-SFC	NoSubs
7	3	25	84	19	-3.4	0.094	-9.000	-9.000	-999.	73.	21.9	0.1880	0.32	1.00	1.00	345.0	15.0	291.8	2.0	0	0.00	67.	1005.	3	NAD-SFC	NoSubs
7	3	25	84	20	-5.0	0.104	-9.000	-9.000	-999.	81.	20.1	0.0780	0.32	1.00	1.50	292.0	15.0	291.1	2.0	0	0.00	70.	1006.	3	NAD-SFC	NoSubs
7	3	25	84	21	-19.4	0.214	-9.000	-9.000	-999.	238.	45.7	0.1620	0.32	1.00	2.60	309.0	15.0	290.4	2.0	0	0.00	73.	1006.	4	NAD-SFC	NoSubs
7	3	25	84	22	-36.3	0.360	-9.000	-9.000	-999.	518.	115.2	0.1880	0.32	1.00	4.10	332.0	15.0	289.2	2.0	0	0.00	79.	1007.	4	NAD-SFC	NoSubs
7	3	25	84	23	-31.8	0.314	-9.000	-9.000	-999.	424.	87.5	0.1880	0.32	1.00	3.60	344.0	15.0	288.2	2.0	0	0.00	84.	1007.	4	NAD-SFC	NoSubs
7	3	25	84	24	-27.2	0.268	-9.000	-9.000	-999.	335.	63.8	0.1880	0.32	1.00	3.10	337.0	15.0	287.8	2.0	0	0.00	86.	1007.	4	NAD-SFC	NoSubs
7	3	26	85	1	-19.5	0.214	-9.000	-9.000	-999.	239.	45.4	0.1620	0.32	1.00	2.60	328.0	15.0	287.5	2.0	0	0.00	87.	1006.	4	NAD-SFC	NoSubs
7	3	26	85	2	-13.3	0.177	-9.000	-9.000	-999.	178.	37.3	0.1880	0.32	1.00	2.10	343.0	15.0	287.2	2.0	0	0.00	88.	1006.	4	NAD-SFC	NoSubs
7	3	26	85	3	-6.7	0.124	-9.000	-9.000	-999.	106.	25.9	0.1880	0.32	1.00	1.50	350.0	15.0	286.9	2.0	0	0.00	89.	1006.	4	NAD-SFC	NoSubs
7	3	26	85	4	-3.4	0.094	-9.000	-9.000	-999.	69.	21.9	0.1900	0.32	1.00	1.00	6.0	15.0	286.6	2.0	0	0.00	90.	1006.	4	NAD-SFC	NoSubs
7	3	26	85	5	-1.4	0.078	-9.000	-9.000	-999.	53.	30.7	0.1900	0.32	1.00	0.50	18.0	15.0	286.4	2.0	0	0.00	91.	1006.	4	NAD-SFC	NoSubs
7	3	26	85	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	286.2	2.0	0	0.00	91.	1006.	4	NAD-SFC	NoSubs
7	3	26	85	7	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	0.45	0.00	0.0	15.0	286.2	2.0	0	0.00	92.	1006.	4	NAD-SFC	NoSubs
7	3	26	85	8	28.3	-9.000	-9.000	-9.000	255.	-999.	-99999.0	0.0879	0.32	0.23	0.00	0.0	15.0	286.2	2.0	0	0.00	92.	1007.	4	NAD-SFC	NoSubs
7	3	26	85	9	60.5	0.088	0.870	0.005	391.	63.	-1.0	0.1280	0.32	0.17	0.50	54.0	15.0	286.9	2.0	0	0.00	88.	1007.	4	NAD-SFC	NoSubs
7	3	26	85	10	86.2	-9.000	-9.000	-9.000	572.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	287.6	2.0	0	0.00	83.	1007.	4	NAD-SFC	NoSubs
7	3	26	85	11	105.5	-9.000	-9.000	-9.000	723.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	288.8	2.0	0	0.00	78.	1007.	3	NAD-SFC	NoSubs
7	3	26	85	12	115.3	-9.000	-9.000	-9.000	849.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	290.2	2.0	0	0.00	70.	1006.	3	NAD-SFC	NoSubs
7	3	26	85	13	116.1	-9.000	-9.000	-9.000	960.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	291.8	2.0	0	0.00	62.	1005.	3	NAD-SFC	NoSubs
7	3	26	85	14	106.7	-9.000	-9.000	-9.000	1015.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	293.2	2.0	0	0.00	54.	1005.	4	NAD-SFC	NoSubs
7	3	26	85	15	90.2	-9.000	-9.000	-9.000	1054.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	294.2	2.0	0	0.00	48.	1004.	4	NAD-SFC	NoSubs
7	3	26	85	16	66.1	0.348	1.260	0.009	1083.	492.	-56.9	0.0780	0.32	0.17	4.10	282.0	15.0	294.9	2.0	0	0.00	44.	1003.	3	NAD-SFC	NoSubs
7	3	26	85	17	33.8	0.407	1.011	0.009	1095.	623.	-178.5	0.0780	0.32	0.22	5.10	282.0	15.0	293.8	2.0	0	0.00	55.	1003.	3	NAD-SFC	NoSubs
7	3	26	85	18	-5.4	0.548	-9.000	-9.000	-999.	972.	2730.7	0.0780	0.32	0.41	7.20	282.0	15.0	290.2	2.0	0	0.00	67.	1004.	3	NAD-SFC	NoSubs
7	3	26	85	19	-63.8	0.607	-9.000	-9.000	-999.	1133.	314.3	0.0780	0.32	1.00	8.20	278.0	15.0	287.5	2.0	0	0.00	75.	1005.	3	NAD-SFC	NoSubs
7	3	26	85	20	-45.0	0.415	-9.000	-9.000	-999.	677.	142.7	0.0780	0.32	1.00	5.70	281.0	15.0	286.2	2.0	0	0.00	79.	1006.	2	NAD-SFC	NoSubs
7	3	26	85	21	-31.3	0.295	-9.000	-9.000	-999.	397.	73.6	0.0780	0.32	1.00	4.10	299.0	15.0	285.4	2.0	0	0.00	82.	1007.	3	NAD-SFC	NoSubs
7	3	26	85	22	-26.5	0.259	-9.000	-9.000	-999.	316.	58.6	0.1620	0.32	1.00	3.10	302.0	15.0	284.9	2.0	0	0.00	84.	1008.	4	NAD-SFC	NoSubs
7	3	26	85	23	-25.0	0.296	-9.000	-9.000	-999.	387.	93.7	0.0780	0.32	1.00	4.10	277.0	15.0	284.4	2.0	0	0.00	83.	1008.	7	NAD-SFC	NoSubs
7	3	26	85	24	-34.2	0.333	-9.000	-9.000	-999.	460.	96.6	0.0780	0.32	1.00	4.60	277.0	15.0	283.8	2.0	0	0.00	83.	1008.	4	NAD-SFC	NoSubs
7	3	27	86	1	-30.0	0.281	-9.000	-9.000	-999.	358.	66.2	0.0310	0.32	1.00	4.60	268.0	15.0	283.2	2.0	0	0.00	81.	1008.	3	NAD-SFC	NoSubs
7	3	27	86	2	-35.6	0.332	-9.000	-9.000	-999.	460.	92.7	0.0780	0.32	1.00	4.60	275.0	15.0	282.9	2.0	0	0.00	79.	1008.	3	NAD-SFC	NoSubs
7	3	27	86	3	-35.7	0.332	-9.000	-9.000	-999.	460.	92.4	0.0780	0.32	1.00	4.60	274.0	15.0	282.0	2.0	0	0.00	80.	1008.	3	NAD-SFC	NoSubs
7	3	27	86	4	-34.5	0.333	-9.000	-9.000	-999.	460.	95.8	0.0780	0.32	1.00	4.60	278.0	15.0	281.4	2.0	0	0.00	80.	1008.	4	NAD-SFC	NoSubs
7	3	27	86	5	-38.5	0.370	-9.000	-9.000	-999.	540.	118.6	0.0780	0.32	1.00	5.10	281.0	15.0	281.1	2.0	0	0.00	80.	1009.	4	NAD-SFC	NoSubs
7	3	27	86	6	-34.6	0.333	-9.000	-9.000	-999.	461.	95.6	0.0780	0.32	1.00	4.60	290.0	15.0	280.9	2.0	0	0.00	80.	1009.	4	NAD-SFC	NoSubs
7	3	27	86	7	-19.4	0.498	-9.000	-9.000	-999.	844.	574.9	0.1620	0.32	0.44	5.70	302.0	15.0	281.2	2.0	0	0.00	76.	1010.	4	NAD-SFC	NoSubs
7	3	27	86	8	28.7	0.688	0.546	0.005	204.	1369.	-1023.2	0.1620	0.32	0.23	7.70	324.0	15.0	282.8	2.0	0	0.00	66.	1010.	4	NAD-SFC	NoSubs
7	3	27	86	9	49.8	0.694	0.825	0.005	405.	1386.	-603.8	0.1620	0.32	0.17	7.70	324.0	15.0	283.5	2.0	0	0.25	58.	1011.	7	NAD-SFC	NoSubs
7	3	27	86	10	86.5	0.701	1.145	0.005	626.	1409.	-359.8	0.1620	0.32	0.15	7.70	323.0	15.0	284.4	2.0	0	0.25	49.	1011.	4	NAD-SFC	NoSubs
7	3	27	86	11	105.7	0.790	1.419	0.005	976.	1679.	-419.5	0.1620	0.32	0.14	8.70	318.0	15.0	285.1	2.0	0	0.00	42.	1010.	3	NAD-SFC	NoSubs
7	3	27	86	12	115.1	0.885	1.565	0.005	1202.	1989.	-541.3	0.1620	0.32	0.14	9.80	321.0	15.0	285.8	2.0	0	0.00	36.	1010.	3	NAD-SFC	NoSubs
7	3	27	86	13	115.7	0.927	1.651	0.005	1401.	2138.	-620.1	0.1620	0.32	0.14	10.30	322.0	15.0	286.2	2.0	0	0.00	31.	1009.	3	NAD-SFC	NoSubs
7	3	27	86	14	107.4	1.046	1.675	0.005	1577.	2554.	-958.3	0.1880	0.32	0.14	11.30	330.0	15.0	286.8	2.0	0	0.00	29.	1009.	2	NAD-SFC	NoSubs
7	3	27	86	15	90.1	1.044	1.623	0.005	1711.	2559.	-1135.3	0.1880	0.32	0.15	11.30	331.0	15.0	287.0	2.0	0	0.00	29.	1009.	2	NAD-SFC	NoSubs
7	3	27	86	16	64.6	0.951	1.472	0.005	1778.	2248.	-1196.2	0.1880	0.32	0.17	10.30	331.0	15.0	287.0	2.0	0	0.00	31.	1008.	2	NAD-SFC	NoSubs
7	3	27	86	17	32.2	0.468	1.171	0.005	1795.	1099.	-286.3	0.1620	0.32	0.22	5.10	324.0	15.0	286.5	2.0	0	0.00	45.	1008.	2	NAD-SFC	NoSubs
7	3	27	86	18	-8.8	0.403	-9.000	-9.000	-999.	649.	669.8	0.1620	0.32	0.41	4.60	323.0	15.0	285.2	2.0	0	0.00	52.	1008.	2	NAD-SFC	NoSubs
7	3	27	86	19	-37.0	0.346	-9.000	-9.000	-999.	492.	101.0	0.1620	0.32	1.00	4.10	318.0	15.0	284.0	2.0	0	0.00	57.	1009.	3	NAD-SFC	NoSubs
7	3	27	86	20	-13.6	0.176	-9.000	-9.000	-999.	201.	36.2	0.1880	0.32	1.00	2.10	345.0	15.0	283.5	2.0	0	0.00	59.	1009.	3	NAD-SFC	NoSubs
7	3	27	86	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	283.0	2.0	0	0.00	60.	1010.	3	NAD-SFC	NoSubs
7	3	27	86	22	-1.0	0.067	-9.000	-9.000	-999.	42.	26.8	0.0330	0.32	1.00	0.50	185.0	15.0	282.5	2.0	0	0.00	62.	1011.	3	NAD-SFC	NoSubs
7	3	27	86	23	-1.2	0.073	-9.000	-9.000	-999.	47.	28.9	0.0780	0.32	1.00	0.50	273.0	15.0	282.0	2.0	0	0.00	65.	1011.	3	NAD-SFC	NoSubs
7	3	27	86	24	-6.5	0.120	-9.000	-9.000	-999.	100.	24.1	0.1620	0.32	1.00	1.50	304.0	15.0	281.5	2.0	0	0.00	68.	1011.	3	NAD-SFC	NoSubs
7	3	28	87	1	-12.9	0.170	-9.000	-9.000	-999.	168.	34.2	0.1620	0.32	1.00	2.10	300.0	15.0	281.0	2.0	0	0.00	71.	1012.	3	NAD-SFC	NoSubs
7	3	28	87	2	-12.9	0.170	-9.000	-9.000	-999.	168.	34.1	0.1620	0.32	1.00	2.10	301.0	15.0	280.6	2.0	0	0.00	73.	1012.	3	NAD-SFC	NoSubs
7	3	28	87	3	-4.2	0.091	-9.000	-9.000	-999.	68.	16.4	0.0310	0.32	1.00	1.50	265.0	15.0	280.1	2.0	0	0.00	75.	1013.	2	NAD-SFC	NoSubs
7	3	28	87	4	-12.4	0.155	-9.000	-9.000	-999.	146.	27.0	0.0340	0.32	1.00	2.60	211.0	15.0	279.6	2.0	0	0.00	76.	1013.	2	NAD-SFC	NoSubs
7	3	28	87	5	-28.1	0.251	-9.000	-9.000	-999.	302.	50.9	0.0330	0.32	1.00	4.10	200.0	15.0	279.2	2.0	0	0.00	77.	1014.	2	NAD-SFC	NoSubs
7	3	28	87	6	-24.3	0.219	-9.000	-9.000	-999.	246.	39.0	0.0330	0.32	1.00	3.60	202.0	15.0	278.9	2.0	0	0.00	78.	1014.	2	NAD-SFC	NoSubs
7	3	28	87	7	-7.7	0.160	-9.000	-9.000	-999.	154.	47.7	0.0340	0.32	0.44	2.60	211.0	15.0	279.0	2.0	0	0.00	77.	1015.	2	NAD-SFC	NoSubs
7	3	28	87	8	28.4	0.227	0.508	0.006	167.	260.	-37.5	0.1880	0.32	0.23	2.10	355.0	15.0	281.0	2.0	0	0.00	66.	1015.	2	NAD-SFC	NoSubs
7	3	28	87	9	61.4	0.191	0.899	0.006	428.	201.	-10.3	0.1880	0.32	0.17	1.50	351.0	15.0	282.2	2.0	0	0.00	58.	1014.	2	NAD-SFC	NoSubs
7	3	28	87	10	88.0	0.153	1.080	0.006	518.	144.	-3.7	0.1880	0.32	0.15	1.00	354.0	15.0	283.9	2.0	0	0.00	51.	1014.	2	NAD-SFC	NoSubs
7	3	28	87	11	106.4	0.204	1.216	0.005	611.	220.	-7.2	0.1880	0.32	0.14	1.50	336.0	15.0	285.2	2.0	0	0.00	45.	1013.	2	NAD-SFC	NoSubs
7	3	28	87	12	115.9	0.300	1.326	0.005	726.	395.	-21.0	0.1880	0.32	0.14	2.60	333.0	15.0	286.6	2.0	0	0.00	41.	1012.	3	NAD-SFC	NoSubs
7	3	28	87	13	116.6	0.384	1.400	0.005	850.	571.	-43.8	0.1880	0.32	0.14	3.60	334.0	15.0	287.8	2.0	0	0.00	38.	1012.	3	NAD-SFC	NoSubs
7	3	28	87	14	108.3	0.423	1.419	0.005	952.	660.	-63.0	0.1880	0.32	0.14	4.10	342.0	15.0	288.5	2.0	0	0.00	36.	1011.	3	NAD-SFC	NoSubs

7	3	28	87	15	91.2	0.460	1.378	0.005	1036.	749.	-96.4	0.1880	0.32	0.15	4.60	342.0	15.0	289.0	2.0	0	0.00	36.	1011.	3	NAD-SFC	NoSubs
7	3	28	87	16	65.9	0.453	1.260	0.005	1093.	732.	-127.0	0.1880	0.32	0.16	4.60	343.0	15.0	289.2	2.0	0	0.00	36.	1011.	3	NAD-SFC	NoSubs
7	3	28	87	17	33.1	0.355	1.009	0.005	1121.	515.	-122.1	0.1880	0.32	0.22	3.60	338.0	15.0	289.0	2.0	0	0.00	43.	1011.	2	NAD-SFC	NoSubs
7	3	28	87	18	-3.9	0.270	-9.000	-9.000	-999.	340.	454.8	0.1620	0.32	0.40	3.10	329.0	15.0	288.4	2.0	0	0.00	48.	1011.	2	NAD-SFC	NoSubs
7	3	28	87	19	-28.1	0.258	-9.000	-9.000	-999.	315.	55.3	0.1620	0.32	1.00	3.10	325.0	15.0	287.2	2.0	0	0.00	52.	1012.	2	NAD-SFC	NoSubs
7	3	28	87	20	-12.9	0.170	-9.000	-9.000	-999.	171.	34.0	0.1620	0.32	1.00	2.10	317.0	15.0	286.2	2.0	0	0.00	55.	1012.	2	NAD-SFC	NoSubs
7	3	28	87	21	-3.4	0.093	-9.000	-9.000	-999.	70.	21.5	0.1620	0.32	1.00	1.00	323.0	15.0	285.4	2.0	0	0.00	58.	1012.	2	NAD-SFC	NoSubs
7	3	28	87	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	284.5	2.0	0	0.00	60.	1012.	2	NAD-SFC	NoSubs
7	3	28	87	23	-2.5	0.080	-9.000	-9.000	-999.	54.	18.2	0.0460	0.32	1.00	1.00	146.0	15.0	283.5	2.0	0	0.00	64.	1013.	2	NAD-SFC	NoSubs
7	3	28	87	24	-8.2	0.126	-9.000	-9.000	-999.	107.	21.9	0.0380	0.32	1.00	2.10	162.0	15.0	282.4	2.0	0	0.00	68.	1012.	2	NAD-SFC	NoSubs
7	3	29	88	1	-4.4	0.094	-9.000	-9.000	-999.	69.	17.0	0.0380	0.32	1.00	1.50	179.0	15.0	281.8	2.0	0	0.00	69.	1012.	2	NAD-SFC	NoSubs
7	3	29	88	2	-4.3	0.092	-9.000	-9.000	-999.	67.	16.7	0.0340	0.32	1.00	1.50	214.0	15.0	281.5	2.0	0	0.00	68.	1012.	2	NAD-SFC	NoSubs
7	3	29	88	3	-4.2	0.091	-9.000	-9.000	-999.	66.	16.4	0.0310	0.32	1.00	1.50	246.0	15.0	281.2	2.0	0	0.00	67.	1012.	2	NAD-SFC	NoSubs
7	3	29	88	4	-5.2	0.105	-9.000	-9.000	-999.	81.	19.8	0.0780	0.32	1.00	1.50	277.0	15.0	280.9	2.0	0	0.00	67.	1012.	2	NAD-SFC	NoSubs
7	3	29	88	5	-5.3	0.105	-9.000	-9.000	-999.	81.	19.7	0.0780	0.32	1.00	1.50	291.0	15.0	280.6	2.0	0	0.00	68.	1012.	2	NAD-SFC	NoSubs
7	3	29	88	6	-5.3	0.105	-9.000	-9.000	-999.	81.	19.7	0.0780	0.32	1.00	1.50	278.0	15.0	280.2	2.0	0	0.00	70.	1013.	2	NAD-SFC	NoSubs
7	3	29	88	7	-2.5	0.087	-9.000	-9.000	-999.	62.	24.5	0.0310	0.32	0.43	1.50	256.0	15.0	280.1	2.0	0	0.00	70.	1013.	2	NAD-SFC	NoSubs
7	3	29	88	8	29.4	0.151	0.420	0.007	91.	140.	-10.5	0.0780	0.32	0.23	1.50	297.0	15.0	282.4	2.0	0	0.00	62.	1014.	2	NAD-SFC	NoSubs
7	3	29	88	9	62.5	0.124	0.758	0.007	251.	104.	-2.7	0.0780	0.32	0.17	1.00	270.0	15.0	284.2	2.0	0	0.00	56.	1013.	2	NAD-SFC	NoSubs
7	3	29	88	10	89.0	0.110	0.987	0.007	390.	87.	-1.3	0.0310	0.32	0.15	1.00	261.0	15.0	285.9	2.0	0	0.00	51.	1013.	2	NAD-SFC	NoSubs
7	3	29	88	11	107.5	0.132	1.173	0.007	544.	115.	-1.9	0.0780	0.32	0.14	1.00	271.0	15.0	287.8	2.0	0	0.00	46.	1013.	2	NAD-SFC	NoSubs
7	3	29	88	12	117.1	0.133	1.296	0.008	671.	117.	-1.8	0.0780	0.32	0.14	1.00	284.0	15.0	289.2	2.0	0	0.00	43.	1012.	2	NAD-SFC	NoSubs
7	3	29	88	13	117.8	0.134	1.357	0.008	765.	117.	-1.8	0.0780	0.32	0.14	1.00	289.0	15.0	290.8	2.0	0	0.00	39.	1011.	2	NAD-SFC	NoSubs
7	3	29	88	14	109.5	0.198	1.367	0.009	843.	212.	-6.4	0.1620	0.32	0.14	1.50	306.0	15.0	291.9	2.0	0	0.00	36.	1011.	2	NAD-SFC	NoSubs
7	3	29	88	15	92.2	0.194	1.322	0.008	904.	206.	-7.2	0.1620	0.32	0.15	1.50	327.0	15.0	292.4	2.0	0	0.00	35.	1010.	2	NAD-SFC	NoSubs
7	3	29	88	16	66.7	0.244	1.205	0.008	945.	290.	-19.7	0.1880	0.32	0.16	2.10	338.0	15.0	292.6	2.0	0	0.00	35.	1010.	2	NAD-SFC	NoSubs
7	3	29	88	17	34.3	0.231	0.973	0.008	965.	267.	-32.3	0.1880	0.32	0.22	2.10	352.0	15.0	292.5	2.0	0	0.00	38.	1009.	2	NAD-SFC	NoSubs
7	3	29	88	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	0.40	0.00	0.0	15.0	292.0	2.0	0	0.00	42.	1010.	2	NAD-SFC	NoSubs
7	3	29	88	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	290.8	2.0	0	0.00	47.	1010.	2	NAD-SFC	NoSubs
7	3	29	88	20	-1.0	0.068	-9.000	-9.000	-999.	42.	27.1	0.0380	0.32	1.00	0.50	179.0	15.0	289.2	2.0	0	0.00	53.	1010.	2	NAD-SFC	NoSubs
7	3	29	88	21	-2.4	0.078	-9.000	-9.000	-999.	52.	17.7	0.0380	0.32	1.00	1.00	166.0	15.0	287.8	2.0	0	0.00	59.	1010.	2	NAD-SFC	NoSubs
7	3	29	88	22	-4.3	0.093	-9.000	-9.000	-999.	69.	17.1	0.0380	0.32	1.00	1.50	165.0	15.0	286.8	2.0	0	0.00	62.	1011.	2	NAD-SFC	NoSubs
7	3	29	88	23	-8.6	0.130	-9.000	-9.000	-999.	113.	23.2	0.0460	0.32	1.00	2.10	135.0	15.0	285.8	2.0	0	0.00	64.	1011.	2	NAD-SFC	NoSubs
7	3	29	88	24	-8.8	0.133	-9.000	-9.000	-999.	116.	23.8	0.0510	0.32	1.00	2.10	111.0	15.0	284.9	2.0	0	0.00	66.	1011.	2	NAD-SFC	NoSubs
7	3	30	89	1	-13.4	0.164	-9.000	-9.000	-999.	159.	29.5	0.0460	0.32	1.00	2.60	125.0	15.0	284.4	2.0	0	0.00	67.	1011.	2	NAD-SFC	NoSubs
7	3	30	89	2	-4.5	0.096	-9.000	-9.000	-999.	73.	17.7	0.0460	0.32	1.00	1.50	129.0	15.0	283.9	2.0	0	0.00	68.	1011.	2	NAD-SFC	NoSubs
7	3	30	89	3	-1.1	0.068	-9.000	-9.000	-999.	43.	27.3	0.0380	0.32	1.00	0.50	150.0	15.0	283.1	2.0	0	0.00	71.	1011.	2	NAD-SFC	NoSubs
7	3	30	89	4	-2.3	0.077	-9.000	-9.000	-999.	51.	17.4	0.0310	0.32	1.00	1.00	261.0	15.0	282.5	2.0	0	0.00	74.	1011.	2	NAD-SFC	NoSubs
7	3	30	89	5	-5.2	0.105	-9.000	-9.000	-999.	81.	19.8	0.0780	0.32	1.00	1.50	276.0	15.0	282.1	2.0	0	0.00	75.	1011.	2	NAD-SFC	NoSubs
7	3	30	89	6	-10.1	0.144	-9.000	-9.000	-999.	131.	26.7	0.0780	0.32	1.00	2.10	285.0	15.0	281.9	2.0	0	0.00	77.	1012.	2	NAD-SFC	NoSubs
7	3	30	89	7	-5.3	0.150	-9.000	-9.000	-999.	140.	57.6	0.0780	0.32	0.42	2.10	291.0	15.0	281.8	2.0	0	0.00	77.	1012.	2	NAD-SFC	NoSubs
7	3	30	89	8	30.5	0.222	0.410	0.006	81.	251.	-32.4	0.1620	0.32	0.22	2.10	319.0	15.0	284.2	2.0	0	0.00	66.	1012.	2	NAD-SFC	NoSubs
7	3	30	89	9	63.7	0.093	0.729	0.006	220.	81.	-1.1	0.1620	0.32	0.17	0.50	317.0	15.0	286.2	2.0	0	0.00	59.	1012.	2	NAD-SFC	NoSubs
7	3	30	89	10	90.3	-9.000	-9.000	-9.000	352.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	288.8	2.0	0	0.00	50.	1012.	2	NAD-SFC	NoSubs
7	3	30	89	11	108.7	-9.000	-9.000	-9.000	552.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	290.6	2.0	0	0.00	45.	1012.	2	NAD-SFC	NoSubs
7	3	30	89	12	118.3	0.088	1.334	0.007	724.	62.	-1.0	0.0780	0.32	0.14	0.50	292.0	15.0	292.0	2.0	0	0.00	41.	1011.	2	NAD-SFC	NoSubs
7	3	30	89	13	118.9	0.101	1.409	0.008	848.	77.	-1.0	0.1620	0.32	0.14	0.50	304.0	15.0	293.2	2.0	0	0.00	38.	1010.	2	NAD-SFC	NoSubs
7	3	30	89	14	110.6	0.153	1.428	0.008	949.	143.	-2.9	0.1620	0.32	0.14	1.00	309.0	15.0	294.2	2.0	0	0.00	35.	1009.	2	NAD-SFC	NoSubs
7	3	30	89	15	93.3	0.201	1.376	0.008	1005.	216.	-7.8	0.1880	0.32	0.15	1.50	333.0	15.0	294.8	2.0	0	0.00	33.	1008.	2	NAD-SFC	NoSubs
7	3	30	89	16	67.8	0.245	1.251	0.008	1038.	291.	-19.4	0.1880	0.32	0.16	2.10	345.0	15.0	294.9	2.0	0	0.00	33.	1007.	2	NAD-SFC	NoSubs
7	3	30	89	17	35.3	0.273	1.012	0.008	1054.	342.	-51.7	0.1880	0.32	0.22	2.60	348.0	15.0	294.5	2.0	0	0.00	40.	1007.	2	NAD-SFC	NoSubs
7	3	30	89	18	0.4	0.285	0.223	0.008	1053.	364.	-5489.9	0.1900	0.32	0.39	3.10	14.0	15.0	293.6	2.0	0	0.00	44.	1007.	2	NAD-SFC	NoSubs
7	3	30	89	19	-28.6	0.269	-9.000	-9.000	-999.	335.	61.0	0.1900	0.32	1.00	3.10	20.0	15.0	292.2	2.0	0	0.00	47.	1007.	2	NAD-SFC	NoSubs
7	3	30	89	20	-13.6	0.177	-9.000	-9.000	-999.	182.	36.4	0.1900	0.32	1.00	2.10	17.0	15.0	291.2	2.0	0	0.00	50.	1008.	2	NAD-SFC	NoSubs
7	3	30	89	21	-3.5	0.095	-9.000	-9.000	-999.	73.	22.0	0.1900	0.32	1.00	1.00	25.0	15.0	290.1	2.0	0	0.00	54.	1008.	2	NAD-SFC	NoSubs
7	3	30	89	22	-1.2	0.073	-9.000	-9.000	-999.	47.	29.0	0.0780	0.32	1.00	0.50	294.0	15.0	289.1	2.0	0	0.00	59.	1008.	2	NAD-SFC	NoSubs
7	3	30	89	23	-5.2	0.104	-9.000	-9.000	-999.	81.	19.9	0.0780	0.32	1.00	1.50	297.0	15.0	288.2	2.0	0	0.00	63.	1009.	2	NAD-SFC	NoSubs
7	3	30	89	24	-20.1	0.214	-9.000	-9.000	-999.	237.	43.8	0.1620	0.32	1.00	2.60	311.0	15.0	287.8	2.0	0	0.00	65.	1009.	2	NAD-SFC	NoSubs
7	3	31	90	1	-20.1	0.214	-9.000	-9.000	-999.	237.	43.7	0.1620	0.32	1.00	2.60	326.0	15.0	287.1	2.0	0	0.00	66.	1008.	2	NAD-SFC	NoSubs
7	3	31	90	2	-6.9	0.125	-9.000	-9.000	-999.	109.	25.2	0.1880	0.32	1.00	1.50	333.0	15.0	286.5	2.0	0	0.00	67.	1008.	2	NAD-SFC	NoSubs
7	3	31	90	3	-3.4	0.093	-9.000	-9.000	-999.	68.	21.5	0.1620	0.32	1.00	1.00	314.0	15.0	285.8	2.0	0	0.00	69.	1008.	2	NAD-SFC	NoSubs
7	3	31	90	4	-5.2	0.105	-9.000	-9.000	-999.	81.	19.8	0.0780	0.32	1.00	1.50	292.0	15.0	284.9	2.0	0	0.00	71.	1008.	2	NAD-SFC	NoSubs
7	3	31	90	5	-5.2	0.105	-9.000	-9.000	-999.	81.	19.8	0.0780	0.32	1.00	1.50	277.0	15.0	284.2	2.0	0	0.00	72.	1008.	2	NAD-SFC	NoSubs
7	3	31	90	6	-5.2	0.105	-9.000	-9.000	-999.	81.	19.8	0.0780	0.32	1.00	1.50	276.0	15.0	283.6	2.0	0	0.00	73.	1008.	2	NAD-SFC	NoSubs
7	3	31	90	7	-1.1	0.068	-9.000	-9.000	-999.	43.	25.2	0.0780	0.32	0.41	1.00	283.0	15.0	283.5	2.0	0	0.00	73.	1008.	2	NAD-SFC	NoSubs
7	3	31	90	8	31.7	0.132	0.447	0.006	101.	115.	-6.5	0.1620	0.32	0.22	1.00	308.0	15.0	286.2	2.0	0	0.00	62.	1008.	2	NAD-SFC	NoSubs
7	3	31	90	9	64.8	-9.000	-9.000	-9.000	236.	-999.	-99999.0	0.0879	0.32	0.17	0.00	0.0	15.0	288.2	2.0	0	0.00	57.	1008.	2	NAD-SFC	NoSubs
7	3	31	90	10	91.3	-9.000	-9.000	-9.000	392.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	290.2	2.0	0	0.00	49.	1008.	2	NAD-SFC	NoSubs
7	3	31	90	11	109.7	0.100	1.283	0.009	692.	76.	-1.0	0.1620	0.32	0.14	0.50	301.0	15.0	292.0	2.0	0	0.00	43.	1007.	2	NAD-SFC	NoSubs
7	3	31	90	12	119.2	0.154	1.382	0.010	795.	146.	-2.8	0.1620	0.32	0.14	1.00	311.0	15.0	293.2	2.0	0	0.00	40.	1006.	2	NAD-SFC	NoSubs
7	3	31	90	13	119.8	0.200	1.436	0.011	888.	215.	-6.0	0.1620	0.32	0.14	1.50	318.0	15.0	294.5	2.0	0	0.00	38.	1005.	2	NAD-SFC	NoSubs
7	3	31	90	14	111.4	0.250	1.442	0.011	966.	300.	-12.5	0.1620	0.32	0.14	2.10	322.0	15.0	295.2	2.0	0	0.00	37.	1004.	2	NAD-SFC	NoSubs
7	3	31	90	15	94.1	0.337	1.382	0.011	1004.	469.	-36.3	0.1880	0.32	0.15	3.10	335.0	15.0	295.6	2.0	0	0.00	37.	1003.	2	NAD-SFC	NoSubs
7	3	31	90	16	68.6	0.329	1.254	0.011	1029.	452.	-46.3	0.1880	0.32	0.16	3.10	335.0	15.0	296.1	2.0	0	0.00	39.	1003.	2	NAD-SFC	NoSubs
7	3	31	90	17	36.1	0.273	1.017	0.011	1042.	345.	-50.6	0.1880	0.32	0.21	2.60	344.0	15.0	295.8	2.0	0	0.00	47.	1002.	2	NAD-SFC	NoSubs
7	3	31	90	18	1.1	0.285	0.322	0.011	1041.	365.	-1816.1	0.1880	0.32	0.39	3.10	357.0	15.0	295.0	2.0	0	0.00	49.	1003.	2	NAD-SFC	NoSubs
7	3	31	90	19	-33.1	0.315	-9.000	-9.000	-999.	423.	84.0	0.1900	0.32	1.00	3.60	1.0	15.0	293.8	2.0	0	0.00	54.	1003.	2	NAD-SFC	NoSubs

7	3	31	90	20	-38.0	0.359	-9.000	-9.000	-999.	517.	109.1	0.1880	0.32	1.00	4.10	353.0	15.0	292.5	2.0	0	0.00	58.	1003.	2	NAD-SFC	NoSubs
7	3	31	90	21	-33.3	0.314	-9.000	-9.000	-999.	423.	82.9	0.1880	0.32	1.00	3.60	351.0	15.0	291.4	2.0	0	0.00	60.	1003.	2	NAD-SFC	NoSubs
7	3	31	90	22	-28.5	0.268	-9.000	-9.000	-999.	334.	60.3	0.1880	0.32	1.00	3.10	336.0	15.0	290.5	2.0	0	0.00	62.	1003.	2	NAD-SFC	NoSubs
7	3	31	90	23	-19.9	0.214	-9.000	-9.000	-999.	238.	44.0	0.1620	0.32	1.00	2.60	316.0	15.0	289.8	2.0	0	0.00	64.	1003.	2	NAD-SFC	NoSubs
7	3	31	90	24	-19.9	0.214	-9.000	-9.000	-999.	237.	43.9	0.1620	0.32	1.00	2.60	314.0	15.0	289.2	2.0	0	0.00	67.	1003.	2	NAD-SFC	NoSubs
7	4	1	91	1	-12.8	0.170	-9.000	-9.000	-999.	168.	34.2	0.1620	0.32	1.00	2.10	319.0	15.0	288.9	2.0	0	0.00	70.	1003.	2	NAD-SFC	NoSubs
7	4	1	91	2	-6.9	0.125	-9.000	-9.000	-999.	106.	25.2	0.1880	0.32	1.00	1.50	339.0	15.0	288.6	2.0	0	0.00	74.	1003.	2	NAD-SFC	NoSubs
7	4	1	91	3	-1.4	0.079	-9.000	-9.000	-999.	54.	31.0	0.1900	0.32	1.00	0.50	14.0	15.0	288.2	2.0	0	0.00	79.	1003.	3	NAD-SFC	NoSubs
7	4	1	91	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	287.9	2.0	0	0.00	83.	1003.	3	NAD-SFC	NoSubs
7	4	1	91	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	287.5	2.0	0	0.00	86.	1004.	3	NAD-SFC	NoSubs
7	4	1	91	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	287.2	2.0	0	0.00	89.	1004.	3	NAD-SFC	NoSubs
7	4	1	91	7	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	0.40	0.00	0.0	15.0	287.0	2.0	0	0.00	91.	1004.	3	NAD-SFC	NoSubs
7	4	1	91	8	33.7	-9.000	-9.000	-9.000	230.	-999.	-99999.0	0.0879	0.32	0.22	0.00	0.0	15.0	288.4	2.0	0	0.00	84.	1004.	3	NAD-SFC	NoSubs
7	4	1	91	9	66.3	0.070	0.856	0.005	339.	44.	-1.0	0.0340	0.32	0.16	0.50	236.0	15.0	289.8	2.0	0	0.00	78.	1004.	3	NAD-SFC	NoSubs
7	4	1	91	10	92.4	0.111	1.093	0.005	506.	88.	-1.3	0.0310	0.32	0.15	1.00	242.0	15.0	290.9	2.0	0	0.00	73.	1004.	3	NAD-SFC	NoSubs
7	4	1	91	11	110.5	0.073	1.285	0.006	687.	48.	-1.0	0.0310	0.32	0.14	0.50	265.0	15.0	292.4	2.0	0	0.00	67.	1003.	3	NAD-SFC	NoSubs
7	4	1	91	12	119.9	0.088	1.402	0.007	822.	63.	-1.0	0.0780	0.32	0.14	0.50	287.0	15.0	293.8	2.0	0	0.00	61.	1002.	3	NAD-SFC	NoSubs
7	4	1	91	13	120.5	0.134	1.468	0.008	940.	118.	-1.8	0.0780	0.32	0.14	1.00	298.0	15.0	294.8	2.0	0	0.00	57.	1001.	2	NAD-SFC	NoSubs
7	4	1	91	14	112.0	0.153	1.470	0.008	1013.	144.	-2.9	0.1620	0.32	0.14	1.00	311.0	15.0	295.6	2.0	0	0.00	54.	1001.	2	NAD-SFC	NoSubs
7	4	1	91	15	94.7	0.201	1.413	0.008	1063.	217.	-7.7	0.1880	0.32	0.15	1.50	338.0	15.0	296.2	2.0	0	0.00	51.	1000.	2	NAD-SFC	NoSubs
7	4	1	91	16	69.2	0.288	1.287	0.008	1098.	372.	-30.8	0.1900	0.32	0.16	2.60	4.0	15.0	296.4	2.0	0	0.00	49.	999.	2	NAD-SFC	NoSubs
7	4	1	91	17	36.7	0.316	1.048	0.008	1116.	426.	-76.5	0.1900	0.32	0.21	3.10	8.0	15.0	296.2	2.0	0	0.00	55.	999.	2	NAD-SFC	NoSubs
7	4	1	91	18	2.6	0.378	0.435	0.008	1115.	558.	-1837.6	0.1900	0.32	0.38	4.10	12.0	15.0	295.1	2.0	0	0.00	62.	1000.	3	NAD-SFC	NoSubs
7	4	1	91	19	-32.2	0.315	-9.000	-9.000	-999.	426.	86.3	0.1900	0.32	1.00	3.60	15.0	15.0	293.8	2.0	0	0.00	67.	1001.	3	NAD-SFC	NoSubs
7	4	1	91	20	-27.5	0.268	-9.000	-9.000	-999.	334.	62.6	0.1880	0.32	1.00	3.10	350.0	15.0	293.0	2.0	0	0.00	69.	1001.	3	NAD-SFC	NoSubs
7	4	1	91	21	-35.8	0.360	-9.000	-9.000	-999.	518.	116.3	0.1880	0.32	1.00	4.10	332.0	15.0	291.9	2.0	0	0.00	73.	1002.	4	NAD-SFC	NoSubs
7	4	1	91	22	-35.9	0.360	-9.000	-9.000	-999.	518.	115.7	0.1880	0.32	1.00	4.10	335.0	15.0	290.5	2.0	0	0.00	77.	1002.	4	NAD-SFC	NoSubs
7	4	1	91	23	-30.3	0.303	-9.000	-9.000	-999.	401.	81.7	0.1620	0.32	1.00	3.60	328.0	15.0	289.8	2.0	0	0.00	79.	1003.	4	NAD-SFC	NoSubs
7	4	1	91	24	-28.2	0.315	-9.000	-9.000	-999.	424.	99.0	0.1880	0.32	1.00	3.60	335.0	15.0	289.0	2.0	0	0.00	80.	1003.	6	NAD-SFC	NoSubs
7	4	2	92	1	-28.3	0.315	-9.000	-9.000	-999.	424.	98.7	0.1880	0.32	1.00	3.60	344.0	15.0	288.1	2.0	0	0.00	82.	1003.	6	NAD-SFC	NoSubs
7	4	2	92	2	-24.2	0.269	-9.000	-9.000	-999.	336.	72.0	0.1880	0.32	1.00	3.10	345.0	15.0	287.4	2.0	0	0.00	83.	1003.	6	NAD-SFC	NoSubs
7	4	2	92	3	-12.9	0.177	-9.000	-9.000	-999.	182.	38.4	0.1880	0.32	1.00	2.10	339.0	15.0	286.9	2.0	0	0.00	83.	1003.	5	NAD-SFC	NoSubs
7	4	2	92	4	-6.1	0.120	-9.000	-9.000	-999.	100.	25.2	0.1620	0.32	1.00	1.50	317.0	15.0	286.6	2.0	0	0.00	82.	1003.	5	NAD-SFC	NoSubs
7	4	2	92	5	-3.2	0.091	-9.000	-9.000	-999.	66.	21.3	0.1620	0.32	1.00	1.00	314.0	15.0	286.2	2.0	0	0.00	83.	1003.	4	NAD-SFC	NoSubs
7	4	2	92	6	-1.4	0.078	-9.000	-9.000	-999.	52.	30.7	0.1620	0.32	1.00	0.50	312.0	15.0	285.8	2.0	0	0.00	83.	1004.	3	NAD-SFC	NoSubs
7	4	2	92	7	16.5	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	0.40	0.00	0.0	15.0	285.8	2.0	0	0.00	82.	1005.	3	NAD-SFC	NoSubs
7	4	2	92	8	34.3	0.137	0.600	0.007	226.	122.	-6.7	0.1880	0.32	0.22	1.00	350.0	15.0	287.2	2.0	0	0.00	73.	1005.	3	NAD-SFC	NoSubs
7	4	2	92	9	66.9	-9.000	-9.000	-9.000	325.	-999.	-99999.0	0.0879	0.32	0.16	0.00	0.0	15.0	288.8	2.0	0	0.00	67.	1005.	3	NAD-SFC	NoSubs
7	4	2	92	10	92.9	0.085	1.053	0.005	450.	59.	-1.0	0.0780	0.32	0.15	0.50	291.0	15.0	290.1	2.0	0	0.00	61.	1005.	3	NAD-SFC	NoSubs
7	4	2	92	11	110.9	0.153	1.227	0.005	597.	143.	-2.9	0.1620	0.32	0.14	1.00	304.0	15.0	291.5	2.0	0	0.00	56.	1004.	3	NAD-SFC	NoSubs
7	4	2	92	12	120.4	0.155	1.365	0.005	756.	146.	-2.8	0.1620	0.32	0.14	1.00	301.0	15.0	292.9	2.0	0	0.00	52.	1003.	2	NAD-SFC	NoSubs
7	4	2	92	13	120.9	0.200	1.454	0.005	910.	215.	-5.9	0.1620	0.32	0.14	1.50	309.0	15.0	294.0	2.0	0	0.00	48.	1003.	2	NAD-SFC	NoSubs
7	4	2	92	14	112.3	0.291	1.477	0.006	1026.	376.	-19.6	0.1620	0.32	0.14	2.60	317.0	15.0	294.8	2.0	0	0.00	47.	1003.	2	NAD-SFC	NoSubs
7	4	2	92	15	95.0	0.337	1.434	0.007	1111.	469.	-36.0	0.1880	0.32	0.15	3.10	330.0	15.0	295.1	2.0	0	0.00	46.	1002.	2	NAD-SFC	NoSubs
7	4	2	92	16	69.3	0.359	1.313	0.007	1167.	517.	-59.8	0.1620	0.32	0.16	3.60	329.0	15.0	295.0	2.0	0	0.00	47.	1002.	2	NAD-SFC	NoSubs
7	4	2	92	17	36.8	0.315	1.072	0.007	1196.	426.	-76.0	0.1880	0.32	0.21	3.10	340.0	15.0	294.6	2.0	0	0.00	56.	1002.	2	NAD-SFC	NoSubs
7	4	2	92	18	1.6	0.331	0.379	0.007	1194.	457.	-1996.2	0.1880	0.32	0.38	3.60	355.0	15.0	293.5	2.0	0	0.00	63.	1003.	2	NAD-SFC	NoSubs
7	4	2	92	19	-33.2	0.314	-9.000	-9.000	-999.	422.	83.1	0.1880	0.32	1.00	3.60	344.0	15.0	292.1	2.0	0	0.00	69.	1003.	2	NAD-SFC	NoSubs
7	4	2	92	20	-31.3	0.302	-9.000	-9.000	-999.	399.	79.0	0.1620	0.32	1.00	3.60	326.0	15.0	291.2	2.0	0	0.00	71.	1004.	3	NAD-SFC	NoSubs
7	4	2	92	21	-26.8	0.258	-9.000	-9.000	-999.	316.	57.6	0.1620	0.32	1.00	3.10	319.0	15.0	290.6	2.0	0	0.00	71.	1004.	3	NAD-SFC	NoSubs
7	4	2	92	22	-26.9	0.258	-9.000	-9.000	-999.	315.	57.5	0.1620	0.32	1.00	3.10	309.0	15.0	290.1	2.0	0	0.00	70.	1004.	3	NAD-SFC	NoSubs
7	4	2	92	23	-27.6	0.258	-9.000	-9.000	-999.	315.	55.8	0.1620	0.32	1.00	3.10	308.0	15.0	289.5	2.0	0	0.00	69.	1004.	2	NAD-SFC	NoSubs
7	4	2	92	24	-20.0	0.214	-9.000	-9.000	-999.	238.	43.9	0.1620	0.32	1.00	2.60	316.0	15.0	288.9	2.0	0	0.00	68.	1005.	2	NAD-SFC	NoSubs
7	4	3	93	1	-6.9	0.125	-9.000	-9.000	-999.	109.	25.2	0.1880	0.32	1.00	1.50	340.0	15.0	288.2	2.0	0	0.00	69.	1005.	2	NAD-SFC	NoSubs
7	4	3	93	2	-3.5	0.095	-9.000	-9.000	-999.	70.	21.9	0.1880	0.32	1.00	1.00	352.0	15.0	287.6	2.0	0	0.00	72.	1005.	2	NAD-SFC	NoSubs
7	4	3	93	3	-1.5	0.080	-9.000	-9.000	-999.	55.	31.3	0.1880	0.32	1.00	0.50	356.0	15.0	286.9	2.0	0	0.00	75.	1006.	2	NAD-SFC	NoSubs
7	4	3	93	4	-1.5	0.080	-9.000	-9.000	-999.	55.	31.3	0.1880	0.32	1.00	0.50	336.0	15.0	286.4	2.0	0	0.00	77.	1006.	2	NAD-SFC	NoSubs
7	4	3	93	5	-1.4	0.079	-9.000	-9.000	-999.	53.	31.0	0.1620	0.32	1.00	0.50	328.0	15.0	285.8	2.0	0	0.00	79.	1007.	2	NAD-SFC	NoSubs
7	4	3	93	6	-1.4	0.079	-9.000	-9.000	-999.	53.	31.0	0.1620	0.32	1.00	0.50	325.0	15.0	285.2	2.0	0	0.00	80.	1007.	2	NAD-SFC	NoSubs
7	4	3	93	7	-0.2	0.040	-9.000	-9.000	-999.	19.	31.6	0.1620	0.32	0.39	0.50	310.0	15.0	285.2	2.0	0	0.00	79.	1008.	2	NAD-SFC	NoSubs
7	4	3	93	8	34.5	0.086	0.527	0.005	152.	61.	-1.7	0.1620	0.32	0.21	0.50	314.0	15.0	287.5	2.0	0	0.00	66.	1008.	2	NAD-SFC	NoSubs
7	4	3	93	9	67.4	-9.000	-9.000	-9.000	378.	-999.	-99999.0	0.0879	0.32	0.16	0.00	0.0	15.0	289.2	2.0	0	0.00	58.	1008.	2	NAD-SFC	NoSubs
7	4	3	93	10	93.7	-9.000	-9.000	-9.000	575.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	291.0	2.0	0	0.00	51.	1007.	2	NAD-SFC	NoSubs
7	4	3	93	11	111.9	-9.000	-9.000	-9.000	729.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	292.6	2.0	0	0.00	45.	1007.	2	NAD-SFC	NoSubs
7	4	3	93	12	121.2	-9.000	-9.000	-9.000	853.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	294.0	2.0	0	0.00	41.	1006.	2	NAD-SFC	NoSubs
7	4	3	93	13	121.7	0.102	1.483	0.012	963.	78.	-1.0	0.1620	0.32	0.14	0.50	302.0	15.0	295.1	2.0	0	0.00	39.	1005.	2	NAD-SFC	NoSubs
7	4	3	93	14	113.2	0.101	1.471	0.011	1008.	77.	-1.0	0.1620	0.32	0.14	0.50	307.0	15.0	295.9	2.0	0	0.00	38.	1004.	2	NAD-SFC	NoSubs
7	4	3	93	15	95.8	0.195	1.406	0.011	1040.	207.	-7.0	0.1620	0.32	0.15	1.50	325.0	15.0	296.4	2.0	0	0.00	37.	1004.	2	NAD-SFC	NoSubs
7	4	3	93	16	70.1	0.288	1.276	0.011	1062.	371.	-30.5	0.1880	0.32	0.16	2.60	333.0	15.0	296.1	2.0	0	0.00	42.	1004.	2	NAD-SFC	NoSubs
7	4	3	93	17	37.5	0.316	1.040	0.011	1074.	425.	-75.0	0.1880	0.32	0.21	3.10	353.0	15.0	295.4	2.0	0	0.00	48.	1004.	2	NAD-SFC	NoSubs
7	4	3	93	18	2.3	-9.000	-9.000	-9.000	1074.	-999.	-99999.0	0.0879	0.32	0.38	0.00	0.0	15.0	294.6	2.0	0	0.00	51.	1004.	2	NAD-SFC	NoSubs
7	4	3	93	19	-6.8	0.125	-9.000	-9.000	-999.	105.	25.4	0.1880	0.32	1.00	1.50	349.0	15.0	293.8	2.0	0	0.00	53.	1005.	2	NAD-SFC	NoSubs
7	4	3	93	20	-1.2	0.072	-9.000	-9.000	-999.	47.	28.8	0.0780	0.32	1.00	0.50	297.0	15.0	292.8	2.0	0	0.00	57.	1005.	2	NAD-SFC	NoSubs
7	4	3	93	21	-1.4	0.078	-9.000	-9.000	-999.	53.	30.7	0.1620	0.32	1.00	0.50	301.0	15.0	291.8	2.0	0	0.00	62.	1006.	2	NAD-SFC	NoSubs
7	4	3	93	22	-1.5	0.080	-9.000	-9.000	-999.	54.	31.1	0.1880	0.32	1.00	0.50	358.0	15.0	291.2	2.0	0	0.00	64.	1007.	2	NAD-SFC	NoSubs
7	4	3	93	23	-1.3	0.076	-9.000	-9.000	-999.	51.	30.2	0.1280	0.32	1.00	0.50	38.0	15.0	291.0	2.0	0	0.00	66.	1007.	2	NAD-SFC	NoSubs
7	4	3	93	24	-1.4	0.078	-9.000	-9.000	-999.	53.	30.8	0.1620	0.32	1.00	0.50	323.0	15.0	290.8	2.0	0	0.00	67.	1007.	2	NAD-SFC	NoSubs

7	4	4	94	1	-5.1	0.104	-9.000	-9.000	-999.	81.	19.9	0.0780	0.32	1.00	1.50	293.0	15.0	290.4	2.0	0	0.00	67.	1007.	2	NAD-SFC	NoSubs
7	4	4	94	2	-6.5	0.120	-9.000	-9.000	-999.	100.	24.2	0.1620	0.32	1.00	1.50	312.0	15.0	290.2	2.0	0	0.00	67.	1006.	2	NAD-SFC	NoSubs
7	4	4	94	3	-21.2	0.222	-9.000	-9.000	-999.	251.	46.4	0.1880	0.32	1.00	2.60	342.0	15.0	290.0	2.0	0	0.00	66.	1007.	2	NAD-SFC	NoSubs
7	4	4	94	4	-33.8	0.314	-9.000	-9.000	-999.	423.	82.7	0.1900	0.32	1.00	3.60	10.0	15.0	289.2	2.0	0	0.00	69.	1007.	2	NAD-SFC	NoSubs
7	4	4	94	5	-18.3	0.202	-9.000	-9.000	-999.	225.	40.5	0.1280	0.32	1.00	2.60	38.0	15.0	288.8	2.0	0	0.00	72.	1007.	2	NAD-SFC	NoSubs
7	4	4	94	6	-8.9	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	288.5	2.0	0	0.00	72.	1007.	2	NAD-SFC	NoSubs
7	4	4	94	7	0.5	0.199	0.055	0.006	12.	213.	-1477.0	0.0780	0.32	0.38	2.60	281.0	15.0	288.2	2.0	0	0.00	74.	1007.	2	NAD-SFC	NoSubs
7	4	4	94	8	35.6	0.273	0.527	0.006	148.	343.	-51.4	0.1880	0.32	0.21	2.60	334.0	15.0	289.0	2.0	0	0.00	69.	1007.	2	NAD-SFC	NoSubs
7	4	4	94	9	68.4	0.149	0.794	0.006	263.	147.	-4.3	0.1880	0.32	0.16	1.00	336.0	15.0	290.2	2.0	0	0.00	60.	1007.	2	NAD-SFC	NoSubs
7	4	4	94	10	94.5	-9.000	-9.000	-9.000	389.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	291.8	2.0	0	0.00	55.	1007.	2	NAD-SFC	NoSubs
7	4	4	94	11	112.6	0.114	1.286	0.011	678.	93.	-1.2	0.0330	0.32	0.14	1.00	196.0	15.0	293.0	2.0	0	0.00	48.	1006.	2	NAD-SFC	NoSubs
7	4	4	94	12	121.8	0.114	1.363	0.011	746.	93.	-1.1	0.0310	0.32	0.14	1.00	255.0	15.0	293.8	2.0	0	0.00	45.	1005.	2	NAD-SFC	NoSubs
7	4	4	94	13	122.0	-9.000	-9.000	-9.000	808.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	294.2	2.0	0	0.00	44.	1005.	2	NAD-SFC	NoSubs
7	4	4	94	14	113.4	0.206	1.397	0.012	863.	224.	-6.9	0.1900	0.32	0.14	1.50	22.0	15.0	294.6	2.0	0	0.00	45.	1004.	2	NAD-SFC	NoSubs
7	4	4	94	15	95.8	0.338	1.343	0.011	906.	472.	-36.1	0.1900	0.32	0.15	3.10	18.0	15.0	294.8	2.0	0	0.00	47.	1004.	2	NAD-SFC	NoSubs
7	4	4	94	16	70.2	0.289	1.224	0.011	936.	373.	-30.6	0.1900	0.32	0.16	2.60	26.0	15.0	294.8	2.0	0	0.00	53.	1004.	2	NAD-SFC	NoSubs
7	4	4	94	17	37.8	0.075	1.002	0.011	952.	126.	-1.0	0.0760	0.32	0.21	0.50	74.0	15.0	294.6	2.0	0	0.00	55.	1003.	2	NAD-SFC	NoSubs
7	4	4	94	18	2.6	0.110	0.412	0.011	953.	87.	-45.3	0.0340	0.32	0.37	1.50	236.0	15.0	294.1	2.0	0	0.00	57.	1004.	2	NAD-SFC	NoSubs
7	4	4	94	19	-17.0	0.185	-9.000	-9.000	-999.	191.	33.3	0.0310	0.32	1.00	3.10	246.0	15.0	293.5	2.0	0	0.00	59.	1004.	2	NAD-SFC	NoSubs
7	4	4	94	20	-17.0	0.185	-9.000	-9.000	-999.	191.	33.3	0.0310	0.32	1.00	3.10	265.0	15.0	293.1	2.0	0	0.00	59.	1004.	2	NAD-SFC	NoSubs
7	4	4	94	21	-3.3	0.092	-9.000	-9.000	-999.	71.	21.4	0.1620	0.32	1.00	1.00	321.0	15.0	292.8	2.0	0	0.00	59.	1004.	2	NAD-SFC	NoSubs
7	4	4	94	22	-3.1	0.089	-9.000	-9.000	-999.	64.	20.7	0.1280	0.32	1.00	1.00	44.0	15.0	292.2	2.0	0	0.00	62.	1005.	2	NAD-SFC	NoSubs
7	4	4	94	23	-1.3	0.076	-9.000	-9.000	-999.	51.	30.1	0.1280	0.32	1.00	0.50	50.0	15.0	291.9	2.0	0	0.00	65.	1005.	2	NAD-SFC	NoSubs
7	4	4	94	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	291.6	2.0	0	0.00	67.	1004.	2	NAD-SFC	NoSubs
7	4	5	95	1	-1.4	0.078	-9.000	-9.000	-999.	53.	30.8	0.1620	0.32	1.00	0.50	325.0	15.0	291.2	2.0	0	0.00	68.	1004.	2	NAD-SFC	NoSubs
7	4	5	95	2	-3.5	0.095	-9.000	-9.000	-999.	70.	21.9	0.1880	0.32	1.00	1.00	351.0	15.0	291.1	2.0	0	0.00	70.	1004.	2	NAD-SFC	NoSubs
7	4	5	95	3	-1.5	0.080	-9.000	-9.000	-999.	54.	31.1	0.1880	0.32	1.00	0.50	342.0	15.0	290.8	2.0	0	0.00	72.	1004.	2	NAD-SFC	NoSubs
7	4	5	95	4	-1.4	0.078	-9.000	-9.000	-999.	53.	30.8	0.1620	0.32	1.00	0.50	324.0	15.0	290.4	2.0	0	0.00	74.	1004.	2	NAD-SFC	NoSubs
7	4	5	95	5	-3.3	0.093	-9.000	-9.000	-999.	68.	21.4	0.1620	0.32	1.00	1.00	321.0	15.0	290.0	2.0	0	0.00	76.	1004.	2	NAD-SFC	NoSubs
7	4	5	95	6	-1.0	0.067	-9.000	-9.000	-999.	42.	26.8	0.0340	0.32	1.00	0.50	229.0	15.0	289.8	2.0	0	0.00	77.	1004.	2	NAD-SFC	NoSubs
7	4	5	95	7	1.5	0.044	0.126	0.008	49.	22.	-5.3	0.0310	0.32	0.37	0.50	245.0	15.0	289.5	2.0	0	0.00	78.	1004.	2	NAD-SFC	NoSubs
7	4	5	95	8	36.6	0.089	0.570	0.008	181.	64.	-1.8	0.1880	0.32	0.21	0.50	340.0	15.0	289.9	2.0	0	0.00	75.	1004.	2	NAD-SFC	NoSubs
7	4	5	95	9	69.3	0.097	0.835	0.008	301.	73.	-1.2	0.1880	0.32	0.16	0.50	338.0	15.0	290.9	2.0	0	0.00	69.	1004.	2	NAD-SFC	NoSubs
7	4	5	95	10	95.4	0.150	1.049	0.009	433.	139.	-3.2	0.1620	0.32	0.15	1.00	314.0	15.0	292.4	2.0	0	0.25	61.	1004.	2	NAD-SFC	NoSubs
7	4	5	95	11	113.4	0.153	1.234	0.011	594.	144.	-2.8	0.1620	0.32	0.14	1.00	315.0	15.0	293.8	2.0	0	0.25	56.	1004.	2	NAD-SFC	NoSubs
7	4	5	95	12	122.7	0.201	1.335	0.011	695.	216.	-5.9	0.1620	0.32	0.14	1.50	312.0	15.0	294.9	2.0	0	0.00	53.	1003.	2	NAD-SFC	NoSubs
7	4	5	95	13	123.0	0.207	1.376	0.011	757.	226.	-6.4	0.1880	0.32	0.14	1.50	343.0	15.0	296.0	2.0	0	0.00	50.	1002.	2	NAD-SFC	NoSubs
7	4	5	95	14	114.4	0.300	1.374	0.010	811.	394.	-21.1	0.1880	0.32	0.14	2.60	355.0	15.0	296.8	2.0	0	0.00	48.	1002.	2	NAD-SFC	NoSubs
7	4	5	95	15	97.0	0.296	1.323	0.010	854.	386.	-23.8	0.1880	0.32	0.15	2.60	346.0	15.0	297.1	2.0	0	0.00	48.	1002.	2	NAD-SFC	NoSubs
7	4	5	95	16	71.5	0.289	1.210	0.010	885.	372.	-30.1	0.1900	0.32	0.16	2.60	20.0	15.0	297.5	2.0	0	0.00	48.	1001.	2	NAD-SFC	NoSubs
7	4	5	95	17	38.9	0.234	0.994	0.010	900.	272.	-29.3	0.1900	0.32	0.21	2.10	22.0	15.0	297.1	2.0	0	0.00	53.	1001.	2	NAD-SFC	NoSubs
7	4	5	95	18	3.6	0.110	0.451	0.010	901.	98.	-32.8	0.1900	0.32	0.37	1.00	19.0	15.0	296.4	2.0	0	0.00	56.	1001.	2	NAD-SFC	NoSubs
7	4	5	95	19	1.3	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	295.6	2.0	0	0.00	59.	1002.	2	NAD-SFC	NoSubs
7	4	5	95	20	-1.0	0.067	-9.000	-9.000	-999.	41.	26.7	0.0340	0.32	1.00	0.50	214.0	15.0	294.8	2.0	0	0.00	63.	1002.	2	NAD-SFC	NoSubs
7	4	5	95	21	-2.3	0.076	-9.000	-9.000	-999.	50.	17.4	0.0340	0.32	1.00	1.00	234.0	15.0	294.2	2.0	0	0.00	65.	1002.	2	NAD-SFC	NoSubs
7	4	5	95	22	-11.7	0.153	-9.000	-9.000	-999.	143.	27.1	0.0310	0.32	1.00	2.60	259.0	15.0	293.4	2.0	0	0.00	69.	1002.	2	NAD-SFC	NoSubs
7	4	5	95	23	-22.1	0.219	-9.000	-9.000	-999.	247.	42.8	0.0780	0.32	1.00	3.10	281.0	15.0	292.0	2.0	0	0.00	75.	1002.	2	NAD-SFC	NoSubs
7	4	5	95	24	-27.3	0.257	-9.000	-9.000	-999.	313.	55.6	0.0780	0.32	1.00	3.60	284.0	15.0	291.0	2.0	0	0.00	79.	1002.	2	NAD-SFC	NoSubs
7	4	6	96	1	-11.8	0.153	-9.000	-9.000	-999.	148.	26.9	0.0310	0.32	1.00	2.60	266.0	15.0	290.5	2.0	0	0.00	79.	1002.	2	NAD-SFC	NoSubs
7	4	6	96	2	-11.8	0.153	-9.000	-9.000	-999.	143.	26.9	0.0310	0.32	1.00	2.60	262.0	15.0	290.2	2.0	0	0.00	78.	1002.	2	NAD-SFC	NoSubs
7	4	6	96	3	-7.6	0.122	-9.000	-9.000	-999.	102.	21.1	0.0310	0.32	1.00	2.10	241.0	15.0	289.8	2.0	0	0.00	79.	1002.	2	NAD-SFC	NoSubs
7	4	6	96	4	-4.1	0.091	-9.000	-9.000	-999.	66.	16.5	0.0310	0.32	1.00	1.50	254.0	15.0	289.4	2.0	0	0.00	80.	1002.	2	NAD-SFC	NoSubs
7	4	6	96	5	-2.3	0.076	-9.000	-9.000	-999.	50.	17.3	0.0310	0.32	1.00	1.00	261.0	15.0	289.0	2.0	0	0.00	81.	1002.	2	NAD-SFC	NoSubs
7	4	6	96	6	-1.2	0.073	-9.000	-9.000	-999.	47.	29.0	0.0780	0.32	1.00	0.50	287.0	15.0	288.8	2.0	0	0.00	81.	1002.	2	NAD-SFC	NoSubs
7	4	6	96	7	2.1	-9.000	-9.000	-9.000	20.	-999.	-99999.0	0.0879	0.32	0.37	0.00	0.0	15.0	288.8	2.0	0	0.00	81.	1003.	2	NAD-SFC	NoSubs
7	4	6	96	8	37.7	0.182	0.532	0.005	142.	187.	-14.4	0.1880	0.32	0.21	1.50	341.0	15.0	291.2	2.0	0	0.00	68.	1003.	2	NAD-SFC	NoSubs
7	4	6	96	9	70.4	0.145	0.906	0.005	378.	132.	-3.9	0.1620	0.32	0.16	1.00	308.0	15.0	292.2	2.0	0	0.00	64.	1003.	2	NAD-SFC	NoSubs
7	4	6	96	10	96.4	0.150	1.142	0.006	552.	140.	-3.1	0.1620	0.32	0.15	1.00	301.0	15.0	293.6	2.0	0	0.00	59.	1002.	2	NAD-SFC	NoSubs
7	4	6	96	11	114.3	0.199	1.307	0.008	699.	214.	-6.2	0.1620	0.32	0.14	1.50	305.0	15.0	294.9	2.0	0	0.00	54.	1002.	2	NAD-SFC	NoSubs
7	4	6	96	12	123.5	0.201	1.415	0.009	819.	216.	-5.9	0.1620	0.32	0.14	1.50	304.0	15.0	296.1	2.0	0	0.00	50.	1001.	2	NAD-SFC	NoSubs
7	4	6	96	13	123.9	0.252	1.475	0.009	925.	304.	-11.6	0.1620	0.32	0.14	2.10	308.0	15.0	297.2	2.0	0	0.00	46.	1000.	2	NAD-SFC	NoSubs
7	4	6	96	14	115.3	0.291	1.476	0.008	997.	378.	-19.2	0.1620	0.32	0.14	2.60	324.0	15.0	297.9	2.0	0	0.00	44.	1000.	2	NAD-SFC	NoSubs
7	4	6	96	15	97.8	0.287	1.418	0.008	1040.	370.	-21.6	0.1620	0.32	0.15	2.60	324.0	15.0	298.2	2.0	0	0.00	43.	999.	2	NAD-SFC	NoSubs
7	4	6	96	16	72.2	0.330	1.294	0.008	1070.	455.	-44.3	0.1880	0.32	0.16	3.10	342.0	15.0	298.6	2.0	0	0.00	42.	999.	2	NAD-SFC	NoSubs
7	4	6	96	17	39.8	0.234	1.067	0.008	1086.	276.	-28.6	0.1880	0.32	0.21	2.10	339.0	15.0	298.5	2.0	0	0.00	47.	999.	2	NAD-SFC	NoSubs
7	4	6	96	18	4.5	0.149	0.518	0.008	1087.	141.	-64.7	0.1620	0.32	0.37	1.50	329.0	15.0	298.1	2.0	0	0.00	49.	999.	2	NAD-SFC	NoSubs
7	4	6	96	19	-4.9	0.104	-9.000	-9.000	-999.	81.	20.2	0.0780	0.32	1.00	1.50	294.0	15.0	297.1	2.0	0	0.00	51.	1000.	3	NAD-SFC	NoSubs
7	4	6	96	20	-32.7	0.313	-9.000	-9.000	-999.	420.	83.3	0.0310	0.32	1.00	5.10	258.0	15.0	294.9	2.0	0	0.00	59.	1001.	2	NAD-SFC	NoSubs
7	4	6	96	21	-46.8	0.454	-9.000	-9.000	-999.	733.	178.1	0.0780	0.32	1.00	6.20	270.0	15.0	291.8	2.0	0	0.00	74.	1001.	3	NAD-SFC	NoSubs
7	4	6	96	22	-34.4	0.332	-9.000	-9.000	-999.	471.	95.3	0.0780	0.32	1.00	4.60	292.0	15.0	290.8	2.0	0	0.00	77.	1002.	3	NAD-SFC	NoSubs
7	4	6	96	23	-26.9	0.258	-9.000	-9.000	-999.	318.	57.5	0.1620	0.32	1.00	3.10	303.0	15.0	290.1	2.0	0	0.00	78.	1003.	3	NAD-SFC	NoSubs
7	4	6	96	24	-19.7	0.214	-9.000	-9.000	-999.	238.	44.6	0.1620	0.32	1.00	2.60	316.0	15.0	289.8	2.0	0	0.00	78.	1003.	3	NAD-SFC	NoSubs
7	4	7	97	1	-6.4	0.120	-9.000	-9.000	-999.	104.	24.4	0.1620	0.32	1.00	1.50	313.0	15.0	289.6	2.0	0	0.00	78.	1003.	3	NAD-SFC	NoSubs
7	4	7	97	2	-2.7	0.083	-9.000	-9.000	-999.	58.	19.3	0.0780	0.32	1.00	1.00	283.0	15.0	289.2	2.0	0	0.00	78.	1003.	3	NAD-SFC	NoSubs
7	4	7	97	3	-2.6	0.082	-9.000	-9.000	-999.	57.	19.2	0.0780	0.32	1.00	1.00	273.0	15.0	288.8	2.0	0	0.00	78.	1003.	4	NAD-SFC	NoSubs
7	4	7	97	4	-4.9	0.104	-9.000	-9.000	-999.	80.	20.3	0.0780	0.32	1.00	1.50	284.0	15.0	288.5	2.0	0	0.00	77.	1003.	4	NAD-SFC	NoSubs
7	4	7	97	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	288.4	2.0	0	0.00	77.	1003.	3	NAD-SFC	NoSubs

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 7  4  7  97  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  288.1  2.0   0  0.00  79.  1004.   3 NAD-SFC NoSubs
 7  4  7  97  7    4.5 -9.000 -9.000 -9.000   58. -999. -99999.0  0.0879  0.32  0.36  0.00    0.0  15.0  288.0  2.0   0  0.00  81.  1004.   4 NAD-SFC NoSubs
 7  4  7  97  8   38.8  0.083  0.768  0.007  418.  58.      -1.3  0.1280  0.32  0.21  0.50   54.0  15.0  288.8  2.0   0  0.00  76.  1004.   4 NAD-SFC NoSubs
 7  4  7  97  9   71.0 -9.000 -9.000 -9.000  512. -999. -99999.0  0.0879  0.32  0.16  0.00    0.0  15.0  289.9  2.0   0  0.00  69.  1004.   3 NAD-SFC NoSubs
 7  4  7  97 10   96.6 -9.000 -9.000 -9.000  618. -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0  290.8  2.0   0  0.00  66.  1004.   3 NAD-SFC NoSubs
 7  4  7  97 11  114.2  0.104  1.317  0.007  717.  81.      -1.0  0.1880  0.32  0.14  0.50  349.0  15.0  291.9  2.0   0  0.00  62.  1004.   3 NAD-SFC NoSubs
 7  4  7  97 12  123.3  0.102  1.406  0.007  808.  78.      -1.0  0.1620  0.32  0.14  0.50  327.0  15.0  293.5  2.0   0  0.00  56.  1003.   3 NAD-SFC NoSubs
 7  4  7  97 13  123.6  0.155  1.454  0.007  890. 147.      -2.7  0.1620  0.32  0.14  1.00  306.0  15.0  294.6  2.0   0  0.00  52.  1002.   3 NAD-SFC NoSubs
 7  4  7  97 14  115.1  0.200  1.457  0.007  960. 214.      -6.2  0.1620  0.32  0.14  1.50  317.0  15.0  295.6  2.0   0  0.00  47.  1001.   3 NAD-SFC NoSubs
 7  4  7  97 15   97.9  0.254  1.408  0.007 1020. 307.     -15.0  0.1880  0.32  0.15  2.10  331.0  15.0  296.4  2.0   0  0.00  44.  1001.   3 NAD-SFC NoSubs
 7  4  7  97 16   72.5  0.288  1.292  0.007 1062. 372.     -29.5  0.1880  0.32  0.16  2.60  346.0  15.0  296.8  2.0   0  0.00  42.  1000.   3 NAD-SFC NoSubs
 7  4  7  97 17   40.5  0.276  1.072  0.008 1085. 348.     -46.2  0.1880  0.32  0.21  2.60  359.0  15.0  296.8  2.0   0  0.00  45.  1000.   3 NAD-SFC NoSubs
 7  4  7  97 18    5.5  0.206  0.552  0.008 1087. 226.    -141.9  0.1900  0.32  0.36  2.10   13.0  15.0  296.4  2.0   0  0.00  50.  1000.   3 NAD-SFC NoSubs
 7  4  7  97 19   -6.7  0.124 -9.000 -9.000 -999. 108.      25.8  0.1880  0.32  1.00  1.50  360.0  15.0  295.5  2.0   0  0.00  54.  1000.   3 NAD-SFC NoSubs
 7  4  7  97 20   -4.9  0.104 -9.000 -9.000 -999.  80.      20.4  0.0780  0.32  1.00  1.50  294.0  15.0  294.6  2.0   0  0.00  58.  1001.   4 NAD-SFC NoSubs
 7  4  7  97 21  -29.1  0.295 -9.000 -9.000 -999. 385.      78.8  0.0780  0.32  1.00  4.10  288.0  15.0  293.8  2.0   0  0.00  65.  1001.   4 NAD-SFC NoSubs
 7  4  7  97 22  -30.8  0.348 -9.000 -9.000 -999. 492.     121.9  0.1620  0.32  1.00  4.10  313.0  15.0  292.2  2.0   0  0.00  79.  1002.   6 NAD-SFC NoSubs
 7  4  7  97 23  -24.9  0.304 -9.000 -9.000 -999. 403.     101.1  0.1620  0.32  1.00  3.60  312.0  15.0  291.5  2.0   0  0.00  85.  1003.   7 NAD-SFC NoSubs
 7  4  7  97 24  -24.9  0.304 -9.000 -9.000 -999. 402.     100.8  0.1620  0.32  1.00  3.60  305.0  15.0  290.8  2.0   0  0.00  88.  1003.   7 NAD-SFC NoSubs
 7  4  8  98  1  -21.3  0.259 -9.000 -9.000 -999. 317.      72.9  0.0780  0.32  1.00  3.60  299.0  15.0  290.2  2.0   0  0.00  87.  1003.   7 NAD-SFC NoSubs
 7  4  8  98  2  -19.2  0.259 -9.000 -9.000 -999. 317.      81.3  0.0780  0.32  1.00  3.60  299.0  15.0  289.9  2.0   0  0.00  86.  1003.   8 NAD-SFC NoSubs
 7  4  8  98  3  -16.4  0.222 -9.000 -9.000 -999. 251.      59.3  0.0780  0.32  1.00  3.10  298.0  15.0  289.5  2.0   0  0.00  85.  1003.   8 NAD-SFC NoSubs
 7  4  8  98  4  -17.7  0.216 -9.000 -9.000 -999. 241.      51.0  0.1620  0.32  1.00  2.60  306.0  15.0  289.1  2.0   0  0.00  86.  1003.   7 NAD-SFC NoSubs
 7  4  8  98  5  -19.8  0.221 -9.000 -9.000 -999. 249.      48.5  0.0780  0.32  1.00  3.10  299.0  15.0  288.6  2.0   0  0.00  87.  1003.   6 NAD-SFC NoSubs
 7  4  8  98  6  -21.1  0.220 -9.000 -9.000 -999. 248.      45.3  0.0780  0.32  1.00  3.10  298.0  15.0  288.2  2.0   0  0.00  87.  1003.   5 NAD-SFC NoSubs
 7  4  8  98  7    5.3  0.282  0.320  0.005  223. 359.    -381.5  0.1620  0.32  0.36  3.10  300.0  15.0  288.0  2.0   0  0.00  86.  1003.   4 NAD-SFC NoSubs
 7  4  8  98  8   39.7  0.389  0.748  0.006  377. 581.    -132.3  0.1620  0.32  0.20  4.10  327.0  15.0  289.2  2.0   0  0.00  74.  1004.   4 NAD-SFC NoSubs
 7  4  8  98  9   71.2  0.330  1.008  0.006  515. 456.     -45.0  0.1880  0.32  0.16  3.10  344.0  15.0  290.1  2.0   0  0.00  69.  1004.   4 NAD-SFC NoSubs
 7  4  8  98 10   96.1  0.201  1.206  0.006  654. 227.      -7.6  0.1880  0.32  0.15  1.50  351.0  15.0  290.9  2.0   0  0.00  65.  1004.   4 NAD-SFC NoSubs
 7  4  8  98 11  114.9 -9.000 -9.000 -9.000  763. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  292.1  2.0   0  0.00  61.  1004.   3 NAD-SFC NoSubs
 7  4  8  98 12  123.8 -9.000 -9.000 -9.000  866. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  293.2  2.0   0  0.00  57.  1003.   3 NAD-SFC NoSubs
 7  4  8  98 13  124.0  0.105  1.492  0.005  958.  82.      -1.0  0.1880  0.32  0.14  0.50  332.0  15.0  294.2  2.0   0  0.00  51.  1002.   3 NAD-SFC NoSubs
 7  4  8  98 14  115.5  0.205  1.503  0.005 1052. 223.      -6.7  0.1880  0.32  0.14  1.50  342.0  15.0  295.2  2.0   0  0.00  46.  1001.   3 NAD-SFC NoSubs
 7  4  8  98 15   98.2  0.296  1.458  0.005 1128. 386.     -23.6  0.1880  0.32  0.15  2.60  337.0  15.0  295.9  2.0   0  0.00  41.  1001.   3 NAD-SFC NoSubs
 7  4  8  98 16   72.5  0.371  1.338  0.005 1181. 543.     -63.1  0.1880  0.32  0.16  3.60  347.0  15.0  296.1  2.0   0  0.00  38.  1001.   2 NAD-SFC NoSubs
 7  4  8  98 17   40.0  0.359  1.106  0.005 1208. 517.    -103.7  0.1900  0.32  0.21  3.60    4.0  15.0  295.8  2.0   0  0.00  42.  1001.   2 NAD-SFC NoSubs
 7  4  8  98 18    4.5  0.334  0.536  0.005 1209. 465.    -733.7  0.1880  0.32  0.36  3.60  347.0  15.0  295.0  2.0   0  0.00  47.  1001.   2 NAD-SFC NoSubs
 7  4  8  98 19  -37.8  0.359 -9.000 -9.000 -999. 517.     109.5  0.1880  0.32  1.00  4.10  352.0  15.0  293.5  2.0   0  0.00  52.  1002.   2 NAD-SFC NoSubs
 7  4  8  98 20  -38.0  0.359 -9.000 -9.000 -999. 517.     109.0  0.1880  0.32  1.00  4.10  340.0  15.0  292.2  2.0   0  0.00  57.  1003.   2 NAD-SFC NoSubs
 7  4  8  98 21  -33.3  0.314 -9.000 -9.000 -999. 423.      82.8  0.1880  0.32  1.00  3.60  338.0  15.0  291.2  2.0   0  0.00  60.  1003.   2 NAD-SFC NoSubs
 7  4  8  98 22  -28.6  0.268 -9.000 -9.000 -999. 334.      60.3  0.1880  0.32  1.00  3.10  339.0  15.0  290.6  2.0   0  0.00  62.  1004.   2 NAD-SFC NoSubs
 7  4  8  98 23  -19.9  0.214 -9.000 -9.000 -999. 238.      44.0  0.1620  0.32  1.00  2.60  327.0  15.0  289.8  2.0   0  0.00  64.  1004.   2 NAD-SFC NoSubs
 7  4  8  98 24  -27.7  0.258 -9.000 -9.000 -999. 315.      55.7  0.1620  0.32  1.00  3.10  328.0  15.0  288.9  2.0   0  0.00  67.  1004.   2 NAD-SFC NoSubs
 7  4  9  99  1  -13.6  0.176 -9.000 -9.000 -999. 180.      36.0  0.1880  0.32  1.00  2.10  348.0  15.0  288.0  2.0   0  0.00  70.  1005.   2 NAD-SFC NoSubs
 7  4  9  99  2   -6.9  0.125 -9.000 -9.000 -999. 106.      25.3  0.1900  0.32  1.00  1.50   23.0  15.0  287.2  2.0   0  0.00  71.  1005.   2 NAD-SFC NoSubs
 7  4  9  99  3   -3.1  0.090 -9.000 -9.000 -999.  65.      20.7  0.1280  0.32  1.00  1.00   54.0  15.0  286.6  2.0   0  0.00  73.  1005.   2 NAD-SFC NoSubs
 7  4  9  99  4   -3.1  0.089 -9.000 -9.000 -999.  64.      20.7  0.1280  0.32  1.00  1.00   51.0  15.0  286.1  2.0   0  0.00  74.  1006.   3 NAD-SFC NoSubs
 7  4  9  99  5   -3.1  0.089 -9.000 -9.000 -999.  64.      20.7  0.1280  0.32  1.00  1.00   38.0  15.0  285.6  2.0   0  0.00  76.  1006.   3 NAD-SFC NoSubs
 7  4  9  99  6   -1.3  0.076 -9.000 -9.000 -999.  50.      30.1  0.1280  0.32  1.00  0.50   33.0  15.0  285.1  2.0   0  0.00  78.  1006.   3 NAD-SFC NoSubs
 7  4  9  99  7    4.8  0.154  0.200  0.007   60. 145.     -68.6  0.1900  0.32  0.35  1.50   12.0  15.0  285.4  2.0   0  0.00  77.  1007.   3 NAD-SFC NoSubs
 7  4  9  99  8   40.0  0.275  0.657  0.007  254. 347.     -46.9  0.1880  0.32  0.20  2.60  355.0  15.0  286.6  2.0   0  0.00  73.  1007.   3 NAD-SFC NoSubs
 7  4  9  99  9   72.1  0.247  0.904  0.007  367. 294.     -18.7  0.1880  0.32  0.16  2.10  342.0  15.0  287.6  2.0   0  0.00  71.  1007.   3 NAD-SFC NoSubs
 7  4  9  99 10   96.4  0.195  1.102  0.007  499. 208.      -7.0  0.1620  0.32  0.15  1.50  327.0  15.0  288.8  2.0   0  0.00  68.  1006.   4 NAD-SFC NoSubs
 7  4  9  99 11  109.8  0.290  1.238  0.006  620. 375.     -19.9  0.1620  0.32  0.14  2.60  323.0  15.0  290.1  2.0   0  0.00  63.  1006.   5 NAD-SFC NoSubs
 7  4  9  99 12   29.8  0.425  0.815  0.006  650. 665.    -230.9  0.1620  0.32  0.14  4.60  322.0  15.0  290.5  2.0   0  0.00  65.  1005.  10 NAD-SFC NoSubs
 7  4  9  99 13   29.8  0.467  0.826  0.006  677. 765.    -306.2  0.1620  0.32  0.14  5.10  318.0  15.0  290.4  2.0   0  0.00  69.  1005.  10 NAD-SFC NoSubs
 7  4  9  99 14   27.6  0.517  0.815  0.005  701. 890.    -447.3  0.1620  0.32  0.14  5.70  320.0  15.0  290.8  2.0   0  0.00  69.  1005.  10 NAD-SFC NoSubs
 7  4  9  99 15   78.7  0.593  1.190  0.006  767. 1094.   -237.1  0.1880  0.32  0.15  6.20  334.0  15.0  291.4  2.0   0  0.00  65.  1005.   7 NAD-SFC NoSubs
 7  4  9  99 16   71.6  0.677  1.180  0.008  822. 1336.   -389.1  0.1880  0.32  0.16  7.20  336.0  15.0  291.4  2.0   0  0.00  64.  1004.   4 NAD-SFC NoSubs
 7  4  9  99 17   40.1  0.606  0.983  0.007  850. 1139.   -497.2  0.1620  0.32  0.20  6.70  328.0  15.0  291.2  2.0   0  0.00  64.  1005.   3 NAD-SFC NoSubs
 7  4  9  99 18    6.3  0.326  0.531  0.005  854.  534.    -493.0  0.1620  0.32  0.36  3.60  317.0  15.0  290.8  2.0   0  0.00  69.  1005.   5 NAD-SFC NoSubs
 7  4  9  99 19  -39.3  0.391 -9.000 -9.000 -999.  586.     136.2  0.1620  0.32  1.00  4.60  325.0  15.0  289.6  2.0   0  0.00  70.  1005.   4 NAD-SFC NoSubs
 7  4  9  99 20  -37.7  0.359 -9.000 -9.000 -999.  518.     110.5  0.1880  0.32  1.00  4.10  331.0  15.0  288.5  2.0   0  0.00  69.  1006.   3 NAD-SFC NoSubs
 7  4  9  99 21  -31.8  0.302 -9.000 -9.000 -999.  401.      78.0  0.1620  0.32  1.00  3.60  325.0  15.0  287.8  2.0   0  0.00  69.  1006.   3 NAD-SFC NoSubs
 7  4  9  99 22  -31.9  0.302 -9.000 -9.000 -999.  399.      77.8  0.1620  0.32  1.00  3.60  316.0  15.0  287.0  2.0   0  0.00  69.  1006.   3 NAD-SFC NoSubs
 7  4  9  99 23  -32.0  0.302 -9.000 -9.000 -999.  399.      77.6  0.1620  0.32  1.00  3.60  316.0  15.0  286.2  2.0   0  0.00  71.  1007.   3 NAD-SFC NoSubs
 7  4  9  99 24  -27.4  0.258 -9.000 -9.000 -999.  316.      56.4  0.1620  0.32  1.00  3.10  320.0  15.0  285.2  2.0   0  0.00  75.  1007.   3 NAD-SFC NoSubs
 7  4 10 100  1  -12.8  0.170 -9.000 -9.000 -999.  171.      34.4  0.1620  0.32  1.00  2.10  310.0  15.0  284.8  2.0   0  0.00  77.  1007.   3 NAD-SFC NoSubs
 7  4 10 100  2   -2.7  0.084 -9.000 -9.000 -999.   62.      19.3  0.0780  0.32  1.00  1.00  294.0  15.0  284.2  2.0   0  0.00  78.  1007.   3 NAD-SFC NoSubs
 7  4 10 100  3   -1.0  0.067 -9.000 -9.000 -999.   41.      26.7  0.0330  0.32  1.00  0.50  208.0  15.0  283.9  2.0   0  0.00  79.  1007.   3 NAD-SFC NoSubs
 7  4 10 100  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  283.8  2.0   0  0.00  78.  1007.   3 NAD-SFC NoSubs
 7  4 10 100  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  283.2  2.0   0  0.00  81.  1008.   2 NAD-SFC NoSubs
 7  4 10 100  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  282.6  2.0   0  0.00  84.  1008.   2 NAD-SFC NoSubs
 7  4 10 100  7    4.2 -9.000 -9.000 -9.000   57. -999. -99999.0  0.0879  0.32  0.34  0.00    0.0  15.0  282.9  2.0   0  0.00  83.  1008.   2 NAD-SFC NoSubs
 7  4 10 100  8   39.9 -9.000 -9.000 -9.000  263. -999. -99999.0  0.0879  0.32  0.20  0.00    0.0  15.0  285.0  2.0   0  0.00  72.  1008.   2 NAD-SFC NoSubs
 7  4 10 100  9   72.3 -9.000 -9.000 -9.000  390. -999. -99999.0  0.0879  0.32  0.16  0.00    0.0  15.0  286.5  2.0   0  0.00  65.  1008.   2 NAD-SFC NoSubs
 7  4 10 100 10   98.0 -9.000 -9.000 -9.000  530. -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0  288.2  2.0   0  0.00  58.  1008.   2 NAD-SFC NoSubs
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7	4	10	100	11	115.6	-9.000	-9.000	-9.000	659.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	289.8	2.0	0	0.00	51.	1007.	2	NAD-SFC	NoSubs
7	4	10	100	12	124.6	0.102	1.376	0.009	751.	78.	-1.0	0.1620	0.32	0.14	0.50	304.0	15.0	291.2	2.0	0	0.00	45.	1007.	2	NAD-SFC	NoSubs
7	4	10	100	13	124.7	0.201	1.425	0.010	834.	216.	-5.8	0.1620	0.32	0.14	1.50	311.0	15.0	292.2	2.0	0	0.00	42.	1006.	2	NAD-SFC	NoSubs
7	4	10	100	14	115.8	0.251	1.429	0.010	904.	301.	-12.2	0.1620	0.32	0.14	2.10	323.0	15.0	292.8	2.0	0	0.00	40.	1005.	2	NAD-SFC	NoSubs
7	4	10	100	15	98.3	0.328	1.380	0.010	959.	451.	-32.2	0.1620	0.32	0.15	3.10	328.0	15.0	293.2	2.0	0	0.00	40.	1005.	2	NAD-SFC	NoSubs
7	4	10	100	16	72.7	0.360	1.263	0.010	993.	519.	-57.6	0.1620	0.32	0.16	3.60	328.0	15.0	293.5	2.0	0	0.00	41.	1004.	2	NAD-SFC	NoSubs
7	4	10	100	17	40.3	0.267	1.043	0.010	1009.	337.	-42.5	0.1620	0.32	0.20	2.60	328.0	15.0	293.2	2.0	0	0.00	49.	1004.	2	NAD-SFC	NoSubs
7	4	10	100	18	4.8	0.281	0.515	0.010	1010.	358.	-412.9	0.1620	0.32	0.35	3.10	321.0	15.0	292.6	2.0	0	0.00	52.	1004.	2	NAD-SFC	NoSubs
7	4	10	100	19	-32.1	0.302	-9.000	-9.000	-999.	399.	77.0	0.1620	0.32	1.00	3.60	322.0	15.0	291.4	2.0	0	0.00	57.	1004.	2	NAD-SFC	NoSubs
7	4	10	100	20	-32.3	0.302	-9.000	-9.000	-999.	399.	76.6	0.1620	0.32	1.00	3.60	314.0	15.0	290.2	2.0	0	0.00	61.	1004.	2	NAD-SFC	NoSubs
7	4	10	100	21	-27.6	0.258	-9.000	-9.000	-999.	316.	55.8	0.1620	0.32	1.00	3.10	309.0	15.0	289.8	2.0	0	0.00	61.	1004.	2	NAD-SFC	NoSubs
7	4	10	100	22	-12.8	0.170	-9.000	-9.000	-999.	171.	34.2	0.1620	0.32	1.00	2.10	313.0	15.0	289.2	2.0	0	0.00	62.	1004.	2	NAD-SFC	NoSubs
7	4	10	100	23	-6.4	0.120	-9.000	-9.000	-999.	101.	24.4	0.1620	0.32	1.00	1.50	302.0	15.0	288.5	2.0	0	0.00	62.	1004.	3	NAD-SFC	NoSubs
7	4	10	100	24	-9.8	0.144	-9.000	-9.000	-999.	131.	27.4	0.0780	0.32	1.00	2.10	296.0	15.0	287.8	2.0	0	0.00	64.	1004.	3	NAD-SFC	NoSubs
7	4	11	101	1	-15.3	0.182	-9.000	-9.000	-999.	186.	35.0	0.0780	0.32	1.00	2.60	296.0	15.0	286.9	2.0	0	0.00	67.	1004.	3	NAD-SFC	NoSubs
7	4	11	101	2	-19.8	0.214	-9.000	-9.000	-999.	238.	44.3	0.1620	0.32	1.00	2.60	300.0	15.0	286.2	2.0	0	0.00	71.	1004.	3	NAD-SFC	NoSubs
7	4	11	101	3	-12.7	0.170	-9.000	-9.000	-999.	168.	34.5	0.1620	0.32	1.00	2.10	300.0	15.0	285.6	2.0	0	0.00	74.	1004.	3	NAD-SFC	NoSubs
7	4	11	101	4	-9.8	0.144	-9.000	-9.000	-999.	131.	27.2	0.0780	0.32	1.00	2.10	286.0	15.0	285.0	2.0	0	0.00	76.	1005.	3	NAD-SFC	NoSubs
7	4	11	101	5	-3.3	0.092	-9.000	-9.000	-999.	68.	21.4	0.1620	0.32	1.00	1.00	304.0	15.0	284.5	2.0	0	0.00	78.	1005.	3	NAD-SFC	NoSubs
7	4	11	101	6	-1.4	0.078	-9.000	-9.000	-999.	53.	30.7	0.1620	0.32	1.00	0.50	300.0	15.0	284.1	2.0	0	0.00	80.	1005.	3	NAD-SFC	NoSubs
7	4	11	101	7	6.1	0.111	0.211	0.005	55.	89.	-20.2	0.1620	0.32	0.34	1.00	305.0	15.0	284.4	2.0	0	0.00	78.	1005.	3	NAD-SFC	NoSubs
7	4	11	101	8	41.5	0.228	0.631	0.005	216.	261.	-25.5	0.1620	0.32	0.20	2.10	320.0	15.0	286.5	2.0	0	0.00	65.	1006.	3	NAD-SFC	NoSubs
7	4	11	101	9	73.5	0.190	0.942	0.005	407.	199.	-8.3	0.1620	0.32	0.16	1.50	324.0	15.0	287.8	2.0	0	0.00	60.	1005.	3	NAD-SFC	NoSubs
7	4	11	101	10	98.9	0.131	1.177	0.005	591.	114.	-2.0	0.0780	0.32	0.15	1.00	297.0	15.0	289.0	2.0	0	0.00	53.	1005.	3	NAD-SFC	NoSubs
7	4	11	101	11	114.7	0.133	1.335	0.005	743.	117.	-1.8	0.0780	0.32	0.14	1.00	294.0	15.0	290.2	2.0	0	0.00	47.	1005.	4	NAD-SFC	NoSubs
7	4	11	101	12	123.3	0.155	1.444	0.005	875.	147.	-2.7	0.1620	0.32	0.14	1.00	306.0	15.0	291.4	2.0	0	0.00	43.	1004.	4	NAD-SFC	NoSubs
7	4	11	101	13	125.1	0.201	1.523	0.005	1011.	216.	-5.8	0.1620	0.32	0.14	1.50	329.0	15.0	292.5	2.0	0	0.00	40.	1003.	3	NAD-SFC	NoSubs
7	4	11	101	14	114.8	0.412	1.563	0.006	1191.	635.	-54.5	0.1620	0.32	0.14	4.10	324.0	15.0	292.9	2.0	0	0.00	41.	1002.	4	NAD-SFC	NoSubs
7	4	11	101	15	97.6	0.579	1.533	0.007	1323.	1057.	-177.9	0.1620	0.32	0.15	6.20	314.0	15.0	292.6	2.0	0	0.00	46.	1002.	4	NAD-SFC	NoSubs
7	4	11	101	16	72.6	0.656	1.404	0.008	1364.	1274.	-348.4	0.1620	0.32	0.16	7.20	322.0	15.0	292.0	2.0	0	0.00	48.	1002.	4	NAD-SFC	NoSubs
7	4	11	101	17	41.1	0.430	1.167	0.008	1381.	730.	-172.9	0.1620	0.32	0.20	4.60	323.0	15.0	291.6	2.0	0	0.00	55.	1001.	4	NAD-SFC	NoSubs
7	4	11	101	18	6.6	0.369	0.635	0.008	1383.	542.	-676.0	0.1620	0.32	0.35	4.10	311.0	15.0	290.8	2.0	0	0.00	60.	1002.	4	NAD-SFC	NoSubs
7	4	11	101	19	-29.6	0.295	-9.000	-9.000	-999.	388.	77.6	0.0780	0.32	1.00	4.10	298.0	15.0	289.4	2.0	0	0.00	63.	1002.	4	NAD-SFC	NoSubs
7	4	11	101	20	-37.5	0.391	-9.000	-9.000	-999.	587.	142.7	0.1620	0.32	1.00	4.60	306.0	15.0	288.2	2.0	0	0.00	69.	1003.	5	NAD-SFC	NoSubs
7	4	11	101	21	-35.3	0.392	-9.000	-9.000	-999.	588.	152.1	0.1620	0.32	1.00	4.60	326.0	15.0	287.2	2.0	0	0.00	78.	1004.	6	NAD-SFC	NoSubs
7	4	11	101	22	-29.5	0.393	-9.000	-9.000	-999.	591.	184.3	0.1620	0.32	1.00	4.60	319.0	15.0	286.4	2.0	0	0.00	83.	1005.	8	NAD-SFC	NoSubs
7	4	11	101	23	-21.9	0.396	-9.000	-9.000	-999.	597.	253.3	0.1620	0.32	1.00	4.60	325.0	15.0	285.6	2.0	0	0.00	84.	1006.	10	NAD-SFC	NoSubs
7	4	11	101	24	-39.8	0.436	-9.000	-9.000	-999.	690.	186.9	0.1620	0.32	1.00	5.10	307.0	15.0	284.8	2.0	0	0.00	83.	1006.	6	NAD-SFC	NoSubs
7	4	12	102	1	-52.2	0.534	-9.000	-9.000	-999.	934.	261.2	0.1620	0.32	1.00	6.20	306.0	15.0	283.4	2.0	0	0.00	83.	1006.	5	NAD-SFC	NoSubs
7	4	12	102	2	-54.9	0.533	-9.000	-9.000	-999.	934.	247.2	0.1620	0.32	1.00	6.20	308.0	15.0	282.6	2.0	0	0.00	83.	1006.	4	NAD-SFC	NoSubs
7	4	12	102	3	-59.7	0.578	-9.000	-9.000	-999.	1053.	289.8	0.1620	0.32	1.00	6.70	320.0	15.0	281.9	2.0	0	0.00	84.	1006.	4	NAD-SFC	NoSubs
7	4	12	102	4	-50.6	0.488	-9.000	-9.000	-999.	827.	206.3	0.1620	0.32	1.00	5.70	319.0	15.0	281.2	2.0	0	0.00	86.	1007.	4	NAD-SFC	NoSubs
7	4	12	102	5	-42.1	0.390	-9.000	-9.000	-999.	593.	126.8	0.1620	0.32	1.00	4.60	311.0	15.0	280.8	2.0	0	0.00	88.	1007.	3	NAD-SFC	NoSubs
7	4	12	102	6	-37.4	0.346	-9.000	-9.000	-999.	490.	99.6	0.1620	0.32	1.00	4.10	313.0	15.0	280.2	2.0	0	0.00	89.	1008.	3	NAD-SFC	NoSubs
7	4	12	102	7	6.5	0.751	0.231	0.005	68.	1561.	-5828.9	0.1880	0.32	0.33	8.20	335.0	15.0	281.5	2.0	0	0.00	78.	1008.	3	NAD-SFC	NoSubs
7	4	12	102	8	41.8	0.804	0.776	0.005	401.	1725.	-1117.2	0.1880	0.32	0.20	8.70	331.0	15.0	282.8	2.0	0	0.00	65.	1008.	3	NAD-SFC	NoSubs
7	4	12	102	9	73.7	0.766	1.049	0.005	563.	1613.	-547.7	0.1880	0.32	0.16	8.20	332.0	15.0	283.9	2.0	0	0.00	57.	1008.	3	NAD-SFC	NoSubs
7	4	12	102	10	97.6	0.770	1.240	0.005	701.	1622.	-420.1	0.1880	0.32	0.15	8.20	331.0	15.0	284.9	2.0	0	0.00	51.	1007.	4	NAD-SFC	NoSubs
7	4	12	102	11	114.5	0.749	1.370	0.005	806.	1558.	-329.0	0.1620	0.32	0.14	8.20	329.0	15.0	285.9	2.0	0	0.00	47.	1006.	4	NAD-SFC	NoSubs
7	4	12	102	12	122.9	0.751	1.458	0.005	905.	1560.	-308.2	0.1620	0.32	0.14	8.20	326.0	15.0	286.8	2.0	0	0.00	45.	1005.	4	NAD-SFC	NoSubs
7	4	12	102	13	124.6	0.751	1.521	0.005	1014.	1561.	-304.4	0.1620	0.32	0.14	8.20	326.0	15.0	287.8	2.0	0	0.00	42.	1005.	3	NAD-SFC	NoSubs
7	4	12	102	14	115.9	0.687	1.548	0.006	1147.	1375.	-250.5	0.1880	0.32	0.14	7.20	335.0	15.0	288.6	2.0	0	0.00	40.	1004.	3	NAD-SFC	NoSubs
7	4	12	102	15	98.5	0.662	1.508	0.006	1249.	1296.	-264.1	0.1620	0.32	0.15	7.20	326.0	15.0	289.2	2.0	0	0.00	38.	1004.	3	NAD-SFC	NoSubs
7	4	12	102	16	73.2	0.615	1.392	0.006	1321.	1162.	-284.1	0.1620	0.32	0.16	6.70	327.0	15.0	289.8	2.0	0	0.00	37.	1003.	3	NAD-SFC	NoSubs
7	4	12	102	17	41.2	0.430	1.158	0.006	1349.	711.	-173.0	0.1620	0.32	0.20	4.60	326.0	15.0	289.9	2.0	0	0.00	43.	1003.	3	NAD-SFC	NoSubs
7	4	12	102	18	6.0	0.325	0.609	0.006	1351.	455.	-514.9	0.1620	0.32	0.35	3.60	306.0	15.0	289.2	2.0	0	0.00	49.	1003.	3	NAD-SFC	NoSubs
7	4	12	102	19	-22.2	0.219	-9.000	-9.000	-999.	253.	42.5	0.0780	0.32	1.00	3.10	295.0	15.0	288.6	2.0	0	0.00	49.	1003.	2	NAD-SFC	NoSubs
7	4	12	102	20	-15.4	0.181	-9.000	-9.000	-999.	186.	34.6	0.0780	0.32	1.00	2.60	282.0	15.0	287.9	2.0	0	0.00	48.	1004.	2	NAD-SFC	NoSubs
7	4	12	102	21	-11.9	0.153	-9.000	-9.000	-999.	143.	26.7	0.0310	0.32	1.00	2.60	262.0	15.0	286.9	2.0	0	0.00	50.	1004.	2	NAD-SFC	NoSubs
7	4	12	102	22	-17.2	0.185	-9.000	-9.000	-999.	190.	32.8	0.0310	0.32	1.00	3.10	250.0	15.0	285.8	2.0	0	0.00	53.	1005.	2	NAD-SFC	NoSubs
7	4	12	102	23	-27.1	0.249	-9.000	-9.000	-999.	298.	50.9	0.0310	0.32	1.00	4.10	258.0	15.0	284.6	2.0	0	0.00	57.	1005.	2	NAD-SFC	NoSubs
7	4	12	102	24	-15.6	0.181	-9.000	-9.000	-999.	187.	34.3	0.0780	0.32	1.00	2.60	273.0	15.0	283.6	2.0	0	0.00	63.	1005.	2	NAD-SFC	NoSubs
7	4	13	103	1	-1.4	0.079	-9.000	-9.000	-999.	60.	31.1	0.1620	0.32	1.00	0.50	303.0	15.0	283.1	2.0	0	0.00	66.	1006.	2	NAD-SFC	NoSubs
7	4	13	103	2	-2.8	0.085	-9.000	-9.000	-999.	59.	19.5	0.0780	0.32	1.00	1.00	272.0	15.0	282.4	2.0	0	0.00	70.	1006.	2	NAD-SFC	NoSubs
7	4	13	103	3	-5.2	0.105	-9.000	-9.000	-999.	81.	19.8	0.0780	0.32	1.00	1.50	292.0	15.0	281.9	2.0	0	0.00	72.	1006.	2	NAD-SFC	NoSubs
7	4	13	103	4	-13.0	0.169	-9.000	-9.000	-999.	167.	33.7	0.1620	0.32	1.00	2.10	301.0	15.0	281.2	2.0	0	0.00	74.	1007.	2	NAD-SFC	NoSubs
7	4	13	103	5	-10.0	0.144	-9.000	-9.000	-999.	131.	26.6	0.0780	0.32	1.00	2.10	294.0	15.0	280.9	2.0	0	0.00	76.	1007.	2	NAD-SFC	NoSubs
7	4	13	103	6	-7.8	0.122	-9.000	-9.000	-999.	102.	20.8	0.0310	0.32	1.00	2.10	257.0	15.0	280.5	2.0	0	0.00	76.	1008.	2	NAD-SFC	NoSubs
7	4	13	103	7	6.3	0.150	0.188	0.011	38.	140.	-48.9	0.0310	0.32	0.33	2.10	256.0	15.0	281.1	2.0	0	0.00	73.	1008.	2	NAD-SFC	NoSubs
7	4	13	103	8	42.0	0.156	0.580	0.011	167.	148.	-8.1	0.0780	0.32	0.20	1.50	299.0	15.0	283.5	2.0	0	0.00	60.	1009.	2	NAD-SFC	NoSubs
7	4	13	103	9	74.3	0.127	0.836	0.010	283.	108.	-2.5	0.0780	0.32	0.16	1.00	291.0	15.0	285.8	2.0	0	0.00	50.	1009.	2	NAD-SFC	NoSubs
7	4	13	103	10	99.8	0.099	1.020	0.009	382.	75.	-1.0	0.1620	0.32	0.15	0.50	302.0	15.0	287.6	2.0	0	0.00	45.	1008.	2	NAD-SFC	NoSubs
7	4	13	103	11	117.3	0.088	1.170	0.009	491.	62.	-1.0	0.0780	0.32	0.14	0.50	290.0	15.0	289.4	2.0	0	0.00	41.	1008.	2	NAD-SFC	NoSubs
7	4	13	103	12	126.1	0.088	1.273	0.008	588.	63.	-1.0	0.0780	0.32	0.14	0.50	289.0	15.0	290.9	2.0	0	0.00	38.	1007.	2	NAD-SFC	NoSubs
7	4	13	103	13	126.1	0.135	1.333	0.007	675.	119.	-1.7	0.0780	0.32	0.14	1.00	291.0	15.0	292.1	2.0	0	0.00	36.	1006.	2	NAD-SFC	NoSubs
7	4	13	103	14	117.3	0.154	1.352	0.007	757.	145.	-2.8	0.1620	0.32	0.14	1.00	325.0	15.0	293.2	2.0	0	0.00	33.	1006.	2	NAD-SFC	NoSubs
7	4	13	103	15	99.8	0.202	1.317	0.006	821.	218.	-7.4	0.1880	0.32	0.15	1.50	335.0	15.0	294.0	2.0	0	0.00	31.	1005.	2	NAD-SFC	NoSubs

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 7  4 13 103 16   74.2  0.289  1.214  0.006  865.  373.    -29.1  0.1880  0.32  0.16   2.60  353.0  15.0  294.1  2.0   0  0.00   32.  1005.    2 NAD-SFC NoSubs
 7  4 13 103 17   41.7  0.277  1.011  0.006  887.  350.    -45.6  0.1900  0.32  0.20   2.60    2.0  15.0  293.5  2.0   0  0.00   40.  1005.    2 NAD-SFC NoSubs
 7  4 13 103 18    6.2  0.250  0.536  0.006  890.  300.   -225.4  0.1900  0.32  0.34   2.60   14.0  15.0  292.9  2.0   0  0.00   43.  1005.    2 NAD-SFC NoSubs
 7  4 13 103 19   -6.9  0.125 -9.000 -9.000 -999.  116.     25.4  0.1900  0.32  1.00   1.50   14.0  15.0  291.8  2.0   0  0.00   46.  1005.    2 NAD-SFC NoSubs
 7  4 13 103 20   -1.2  0.073 -9.000 -9.000 -999.   48.     28.9  0.0780  0.32  1.00   0.50  294.0  15.0  290.6  2.0   0  0.00   52.  1006.    2 NAD-SFC NoSubs
 7  4 13 103 21   -2.3  0.076 -9.000 -9.000 -999.   50.     17.3  0.0310  0.32  1.00   1.00  251.0  15.0  289.8  2.0   0  0.00   56.  1006.    2 NAD-SFC NoSubs
 7  4 13 103 22   -7.6  0.122 -9.000 -9.000 -999.  102.     21.1  0.0310  0.32  1.00   2.10  265.0  15.0  289.2  2.0   0  0.00   57.  1007.    2 NAD-SFC NoSubs
 7  4 13 103 23  -11.9  0.153 -9.000 -9.000 -999.  143.     26.8  0.0310  0.32  1.00   2.60  257.0  15.0  288.6  2.0   0  0.00   59.  1007.    2 NAD-SFC NoSubs
 7  4 13 103 24  -17.2  0.185 -9.000 -9.000 -999.  190.     32.9  0.0310  0.32  1.00   3.10  257.0  15.0  288.0  2.0   0  0.00   61.  1006.    2 NAD-SFC NoSubs
 7  4 14 104  1  -22.3  0.219 -9.000 -9.000 -999.  246.     42.4  0.0780  0.32  1.00   3.10  274.0  15.0  287.4  2.0   0  0.00   64.  1006.    2 NAD-SFC NoSubs
 7  4 14 104  2  -22.4  0.219 -9.000 -9.000 -999.  246.     42.3  0.0780  0.32  1.00   3.10  295.0  15.0  286.9  2.0   0  0.00   66.  1007.    2 NAD-SFC NoSubs
 7  4 14 104  3  -22.4  0.219 -9.000 -9.000 -999.  246.     42.3  0.0780  0.32  1.00   3.10  288.0  15.0  286.4  2.0   0  0.00   69.  1007.    2 NAD-SFC NoSubs
 7  4 14 104  4  -27.9  0.257 -9.000 -9.000 -999.  313.     54.6  0.0780  0.32  1.00   3.60  287.0  15.0  285.9  2.0   0  0.00   70.  1007.    2 NAD-SFC NoSubs
 7  4 14 104  5  -28.1  0.258 -9.000 -9.000 -999.  315.     55.0  0.1620  0.32  1.00   3.10  305.0  15.0  285.6  2.0   0  0.00   70.  1007.    2 NAD-SFC NoSubs
 7  4 14 104  6  -20.1  0.214 -9.000 -9.000 -999.  238.     43.6  0.1620  0.32  1.00   2.60  303.0  15.0  285.5  2.0   0  0.00   68.  1008.    2 NAD-SFC NoSubs
 7  4 14 104  7    7.6  0.154  0.254  0.008   78.  146.    -43.4  0.1620  0.32  0.32   1.50  312.0  15.0  285.5  2.0   0  0.00   67.  1008.    2 NAD-SFC NoSubs
 7  4 14 104  8   43.2  0.235  0.651  0.007  229.  273.    -27.0  0.0780  0.32  0.19   2.60  283.0  15.0  286.2  2.0   0  0.00   63.  1008.    2 NAD-SFC NoSubs
 7  4 14 104  9   75.2  0.245  0.901  0.007  350.  291.    -17.6  0.0780  0.32  0.16   2.60  282.0  15.0  287.4  2.0   0  0.00   56.  1009.    2 NAD-SFC NoSubs
 7  4 14 104 10  100.6  0.146  1.101  0.006  477.  138.     -2.8  0.0310  0.32  0.15   1.50  246.0  15.0  288.8  2.0   0  0.00   51.  1008.    2 NAD-SFC NoSubs
 7  4 14 104 11  118.0  0.075  1.252  0.006  599.   51.     -1.0  0.0340  0.32  0.14   0.50  233.0  15.0  290.4  2.0   0  0.00   45.  1008.    3 NAD-SFC NoSubs
 7  4 14 104 12  124.9 -9.000 -9.000 -9.000  723. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  292.0  2.0   0  0.00   42.  1007.    4 NAD-SFC NoSubs
 7  4 14 104 13  126.6 -9.000 -9.000 -9.000  846. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  293.2  2.0   0  0.00   41.  1006.    3 NAD-SFC NoSubs
 7  4 14 104 14  117.8  0.250  1.459  0.006  946.  301.    -11.9  0.0310  0.32  0.14   3.10  260.0  15.0  293.5  2.0   0  0.00   41.  1005.    3 NAD-SFC NoSubs
 7  4 14 104 15  100.1  0.427  1.415  0.006 1013.  669.    -69.5  0.0780  0.32  0.15   5.10  275.0  15.0  293.2  2.0   0  0.51   42.  1004.    3 NAD-SFC NoSubs
 7  4 14 104 16   74.6  0.570  1.301  0.005 1057. 1032.   -222.3  0.0780  0.32  0.16   7.20  271.0  15.0  292.8  2.0   0  0.25   44.  1004.    3 NAD-SFC NoSubs
 7  4 14 104 17   42.3  0.672  1.084  0.005 1079. 1321.   -643.0  0.0780  0.32  0.20   8.70  278.0  15.0  291.1  2.0   0  0.25   55.  1004.    4 NAD-SFC NoSubs
 7  4 14 104 18    6.8  0.513  0.589  0.005 1078.  908.  -1778.7  0.0780  0.32  0.34   6.70  271.0  15.0  289.0  2.0   0  0.00   68.  1005.    3 NAD-SFC NoSubs
 7  4 14 104 19  -35.6  0.351 -9.000 -9.000 -999.  525.    109.1  0.0310  0.32  1.00   5.70  258.0  15.0  287.2  2.0   0  0.00   75.  1005.    4 NAD-SFC NoSubs
 7  4 14 104 20  -37.2  0.384 -9.000 -9.000 -999.  570.    136.5  0.0310  0.32  1.00   6.20  267.0  15.0  286.2  2.0   0  0.00   78.  1006.    5 NAD-SFC NoSubs
 7  4 14 104 21  -40.4  0.416 -9.000 -9.000 -999.  644.    159.9  0.0780  0.32  1.00   5.70  280.0  15.0  285.2  2.0   0  0.00   80.  1006.    5 NAD-SFC NoSubs
 7  4 14 104 22  -20.9  0.375 -9.000 -9.000 -999.  553.    226.7  0.0780  0.32  1.00   5.10  276.0  15.0  284.5  2.0   0  0.00   80.  1006.   10 NAD-SFC NoSubs
 7  4 14 104 23  -20.9  0.375 -9.000 -9.000 -999.  551.    226.2  0.0780  0.32  1.00   5.10  284.0  15.0  283.9  2.0   0  0.00   80.  1006.   10 NAD-SFC NoSubs
 7  4 14 104 24  -23.5  0.421 -9.000 -9.000 -999.  656.    285.3  0.0780  0.32  1.00   5.70  284.0  15.0  283.9  2.0   0  0.00   79.  1006.   10 NAD-SFC NoSubs
 7  4 15 105  1  -23.5  0.421 -9.000 -9.000 -999.  656.    285.1  0.0780  0.32  1.00   5.70  291.0  15.0  283.8  2.0   0  0.25   78.  1006.   10 NAD-SFC NoSubs
 7  4 15 105  2  -20.9  0.375 -9.000 -9.000 -999.  553.    226.0  0.0780  0.32  1.00   5.10  288.0  15.0  283.6  2.0   0  0.25   80.  1005.   10 NAD-SFC NoSubs
 7  4 15 105  3  -29.8  0.393 -9.000 -9.000 -999.  591.    182.4  0.1620  0.32  1.00   4.60  300.0  15.0  283.5  2.0   0  0.25   80.  1005.    8 NAD-SFC NoSubs
 7  4 15 105  4  -33.9  0.347 -9.000 -9.000 -999.  492.    110.2  0.1620  0.32  1.00   4.10  302.0  15.0  283.0  2.0   0  0.00   81.  1005.    5 NAD-SFC NoSubs
 7  4 15 105  5  -25.4  0.259 -9.000 -9.000 -999.  320.     61.3  0.1620  0.32  1.00   3.10  305.0  15.0  282.4  2.0   0  0.00   82.  1005.    5 NAD-SFC NoSubs
 7  4 15 105  6  -15.2  0.182 -9.000 -9.000 -999.  188.     35.4  0.0780  0.32  1.00   2.60  280.0  15.0  281.8  2.0   0  0.00   82.  1006.    4 NAD-SFC NoSubs
 7  4 15 105  7    9.5  0.287  0.347  0.005  157.  369.    -222.7  0.1620  0.32  0.32   3.10  303.0  15.0  282.4  2.0   0  0.00   75.  1006.    4 NAD-SFC NoSubs
 7  4 15 105  8   44.1  0.583  0.824  0.005  454. 1068.    -402.5  0.1880  0.32  0.19   6.20  332.0  15.0  284.0  2.0   0  0.00   62.  1006.    4 NAD-SFC NoSubs
 7  4 15 105  9   61.4  0.612  1.035  0.005  648. 1147.    -333.9  0.1620  0.32  0.16   6.70  329.0  15.0  285.2  2.0   0  0.00   56.  1005.    7 NAD-SFC NoSubs
 7  4 15 105 10   67.4  0.547  1.108  0.005  724.  976.    -217.5  0.1880  0.32  0.15   5.70  341.0  15.0  286.1  2.0   0  0.00   55.  1005.    8 NAD-SFC NoSubs
 7  4 15 105 11   94.6  0.554  1.291  0.005  814.  990.    -161.0  0.1880  0.32  0.14   5.70  340.0  15.0  287.5  2.0   0  0.00   50.  1004.    7 NAD-SFC NoSubs
 7  4 15 105 12  120.5  0.560  1.455  0.005  916. 1006.    -130.5  0.1880  0.32  0.14   5.70  340.0  15.0  288.6  2.0   0  0.00   48.  1003.    5 NAD-SFC NoSubs
 7  4 15 105 13  124.6  0.511  1.530  0.005 1028.  879.     -95.5  0.1880  0.32  0.14   5.10  338.0  15.0  289.8  2.0   0  0.00   45.  1002.    4 NAD-SFC NoSubs
 7  4 15 105 14  116.0  0.559  1.547  0.005 1142. 1003.    -134.7  0.1880  0.32  0.14   5.70  341.0  15.0  290.6  2.0   0  0.00   43.  1001.    4 NAD-SFC NoSubs
 7  4 15 105 15  100.1  0.539  1.511  0.005 1232.  950.    -139.4  0.1620  0.32  0.15   5.70  326.0  15.0  291.2  2.0   0  0.00   41.  1001.    3 NAD-SFC NoSubs
 7  4 15 105 16   74.8  0.456  1.395  0.005 1295.  746.    -113.0  0.1880  0.32  0.16   4.60  352.0  15.0  291.6  2.0   0  0.00   40.  1000.    3 NAD-SFC NoSubs
 7  4 15 105 17   42.8 -9.000 -9.000 -9.000 1329. -999. -99999.0  0.0879  0.32  0.20   0.00    0.0  15.0  291.2  2.0   0  0.00   47.  1000.    3 NAD-SFC NoSubs
 7  4 15 105 18    7.6  0.125  0.658  0.005 1334.  107.    -23.1  0.0510  0.32  0.34   1.50  104.0  15.0  291.1  2.0   0  0.00   48.  1001.    3 NAD-SFC NoSubs
 7  4 15 105 19  -27.7  0.267 -9.000 -9.000 -999.  330.     61.1  0.0460  0.32  1.00   4.10  143.0  15.0  289.6  2.0   0  0.00   55.  1001.    3 NAD-SFC NoSubs
 7  4 15 105 20  -38.1  0.363 -9.000 -9.000 -999.  526.    112.5  0.0380  0.32  1.00   5.70  164.0  15.0  287.2  2.0   0  0.00   67.  1002.    3 NAD-SFC NoSubs
 7  4 15 105 21  -34.1  0.324 -9.000 -9.000 -999.  443.     88.9  0.0380  0.32  1.00   5.10  165.0  15.0  286.2  2.0   0  0.00   70.  1003.    3 NAD-SFC NoSubs
 7  4 15 105 22  -35.3  0.335 -9.000 -9.000 -999.  465.     94.9  0.0460  0.32  1.00   5.10  141.0  15.0  285.6  2.0   0  0.00   71.  1003.    3 NAD-SFC NoSubs
 7  4 15 105 23  -35.4  0.335 -9.000 -9.000 -999.  465.     94.8  0.0460  0.32  1.00   5.10  145.0  15.0  285.1  2.0   0  0.00   72.  1004.    3 NAD-SFC NoSubs
 7  4 15 105 24  -28.2  0.267 -9.000 -9.000 -999.  332.     60.0  0.0460  0.32  1.00   4.10  144.0  15.0  284.6  2.0   0  0.00   73.  1003.    3 NAD-SFC NoSubs
 7  4 16 106  1  -13.1  0.164 -9.000 -9.000 -999.  164.     30.0  0.0460  0.32  1.00   2.60  138.0  15.0  284.2  2.0   0  0.00   74.  1004.    3 NAD-SFC NoSubs
 7  4 16 106  2   -2.4  0.079 -9.000 -9.000 -999.   57.     18.1  0.0460  0.32  1.00   1.00  147.0  15.0  283.6  2.0   0  0.00   76.  1004.    3 NAD-SFC NoSubs
 7  4 16 106  3   -1.0  0.067 -9.000 -9.000 -999.   42.     26.8  0.0340  0.32  1.00   0.50  213.0  15.0  283.0  2.0   0  0.00   79.  1004.    3 NAD-SFC NoSubs
 7  4 16 106  4   -2.7  0.084 -9.000 -9.000 -999.   58.     19.4  0.0780  0.32  1.00   1.00  292.0  15.0  282.6  2.0   0  0.00   82.  1004.    3 NAD-SFC NoSubs
 7  4 16 106  5   -6.5  0.120 -9.000 -9.000 -999.  100.     24.1  0.1620  0.32  1.00   1.50  305.0  15.0  282.2  2.0   0  0.00   83.  1005.    3 NAD-SFC NoSubs
 7  4 16 106  6   -6.5  0.120 -9.000 -9.000 -999.  100.     24.1  0.1620  0.32  0.72   1.50  314.0  15.0  281.9  2.0   0  0.00   83.  1006.    3 NAD-SFC NoSubs
 7  4 16 106  7    9.7  0.211  0.240  0.007   51.  233.    -87.8  0.1880  0.32  0.31   2.10  333.0  15.0  283.2  2.0   0  0.00   75.  1006.    3 NAD-SFC NoSubs
 7  4 16 106  8   45.2  0.236  0.559  0.006  139.  275.    -26.2  0.1880  0.32  0.19   2.10  343.0  15.0  286.1  2.0   0  0.00   61.  1007.    3 NAD-SFC NoSubs
 7  4 16 106  9   76.7  0.099  0.802  0.007  241.   90.     -1.1  0.1880  0.32  0.16   0.50  345.0  15.0  288.4  2.0   0  0.00   51.  1007.    2 NAD-SFC NoSubs
 7  4 16 106 10  102.0 -9.000 -9.000 -9.000  362. -999. -99999.0  0.0879  0.32  0.15   0.00    0.0  15.0  290.0  2.0   0  0.00   46.  1007.    2 NAD-SFC NoSubs
 7  4 16 106 11  119.4 -9.000 -9.000 -9.000  526. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  291.6  2.0   0  0.00   42.  1006.    2 NAD-SFC NoSubs
 7  4 16 106 12  128.0 -9.000 -9.000 -9.000  703. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  292.9  2.0   0  0.00   39.  1006.    2 NAD-SFC NoSubs
 7  4 16 106 13  127.9 -9.000 -9.000 -9.000  977. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  294.0  2.0   0  0.00   37.  1005.    2 NAD-SFC NoSubs
 7  4 16 106 14  119.1 -9.000 -9.000 -9.000 1087. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  295.0  2.0   0  0.00   35.  1005.    2 NAD-SFC NoSubs
 7  4 16 106 15  101.5 -9.000 -9.000 -9.000 1173. -999. -99999.0  0.0879  0.32  0.15   0.00    0.0  15.0  295.8  2.0   0  0.00   34.  1005.    2 NAD-SFC NoSubs
 7  4 16 106 16   76.0 -9.000 -9.000 -9.000 1233. -999. -99999.0  0.0879  0.32  0.16   0.00    0.0  15.0  296.1  2.0   0  0.00   33.  1005.    2 NAD-SFC NoSubs
 7  4 16 106 17   43.7  0.092  1.156  0.006 1266.   67.     -1.6  0.1900  0.32  0.20   0.50   16.0  15.0  296.1  2.0   0  0.00   34.  1005.    2 NAD-SFC NoSubs
 7  4 16 106 18    8.2  0.118  0.662  0.006 1272.   98.    -18.1  0.1900  0.32  0.33   1.00   21.0  15.0  295.8  2.0   0  0.00   39.  1005.    2 NAD-SFC NoSubs
 7  4 16 106 19   -6.8  0.125 -9.000 -9.000 -999.  106.     25.5  0.1900  0.32  1.00   1.50    8.0  15.0  294.6  2.0   0  0.00   44.  1006.    2 NAD-SFC NoSubs
 7  4 16 106 20  -13.5  0.176 -9.000 -9.000 -999.  178.     36.4  0.1880  0.32  1.00   2.10  349.0  15.0  293.4  2.0   0  0.00   49.  1006.    2 NAD-SFC NoSubs
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 7  4 16 106 21   -1.5  0.080 -9.000 -9.000 -999.    59.     31.1  0.1900  0.32  1.00  0.50    6.0  15.0 292.0  2.0    0  0.00   54.  1007.     2 NAD-SFC NoSubs
 7  4 16 106 22   -1.1  0.069 -9.000 -9.000 -999.    43.     27.6  0.0460  0.32  1.00  0.50  125.0  15.0 290.5  2.0    0  0.00   61.  1007.     2 NAD-SFC NoSubs
 7  4 16 106 23   -1.0  0.068 -9.000 -9.000 -999.    42.     27.1  0.0380  0.32  1.00  0.50  178.0  15.0 289.5  2.0    0  0.00   64.  1007.     2 NAD-SFC NoSubs
 7  4 16 106 24   -1.5  0.080 -9.000 -9.000 -999.    54.     31.2  0.1900  0.32  1.00  0.50   17.0  15.0 289.1  2.0    0  0.00   65.  1007.     2 NAD-SFC NoSubs
 7  4 17 107  1  -13.6  0.176 -9.000 -9.000 -999.   177.     36.0  0.1880  0.32  1.00  2.10  349.0  15.0 288.6  2.0    0  0.00   67.  1008.     2 NAD-SFC NoSubs
 7  4 17 107  2  -28.9  0.268 -9.000 -9.000 -999.   333.     59.7  0.1880  0.32  1.00  3.10  349.0  15.0 287.9  2.0    0  0.00   70.  1008.     2 NAD-SFC NoSubs
 7  4 17 107  3  -29.0  0.268 -9.000 -9.000 -999.   333.     59.5  0.1880  0.32  1.00  3.10  336.0  15.0 286.9  2.0    0  0.00   75.  1008.     2 NAD-SFC NoSubs
 7  4 17 107  4  -29.1  0.268 -9.000 -9.000 -999.   333.     59.4  0.1880  0.32  1.00  3.10  337.0  15.0 286.1  2.0    0  0.00   78.  1008.     2 NAD-SFC NoSubs
 7  4 17 107  5  -21.4  0.222 -9.000 -9.000 -999.   252.     46.0  0.1880  0.32  1.00  2.60  340.0  15.0 285.6  2.0    0  0.00   80.  1009.     2 NAD-SFC NoSubs
 7  4 17 107  6  -21.4  0.222 -9.000 -9.000 -999.   251.     46.0  0.1880  0.32  0.71  2.60  349.0  15.0 285.2  2.0    0  0.00   82.  1009.     2 NAD-SFC NoSubs
 7  4 17 107  7   10.6  0.213  0.288  0.007   80.    235.    -81.2  0.1880  0.32  0.31  2.10  356.0  15.0 285.2  2.0    0  0.00   82.  1010.     3 NAD-SFC NoSubs
 7  4 17 107  8   46.0  0.278  0.620  0.006  186.    352.    -42.1  0.1880  0.32  0.19  2.60  360.0  15.0 286.8  2.0    0  0.00   72.  1010.     3 NAD-SFC NoSubs
 7  4 17 107  9   77.4  0.197  0.873  0.006  310.    212.     -8.8  0.1880  0.32  0.16  1.50  347.0  15.0 288.8  2.0    0  0.00   64.  1010.     2 NAD-SFC NoSubs
 7  4 17 107 10  102.7  0.151  1.081  0.005  443.    142.     -3.0  0.1620  0.32  0.14  1.00  326.0  15.0 290.2  2.0    0  0.00   57.  1010.     2 NAD-SFC NoSubs
 7  4 17 107 11  119.8  0.200  1.255  0.005  595.    215.     -6.0  0.1620  0.32  0.14  1.50  329.0  15.0 291.6  2.0    0  0.00   52.  1009.     3 NAD-SFC NoSubs
 7  4 17 107 12  128.3  0.253  1.399  0.006  769.    305.    -11.3  0.1620  0.32  0.14  2.10  329.0  15.0 292.8  2.0    0  0.00   49.  1008.     3 NAD-SFC NoSubs
 7  4 17 107 13  126.3  0.386  1.489  0.008  941.    576.    -41.0  0.1880  0.32  0.14  3.60  340.0  15.0 293.5  2.0    0  0.00   48.  1008.     4 NAD-SFC NoSubs
 7  4 17 107 14  117.5  0.509  1.493  0.008 1019.    871.   -100.8  0.1880  0.32  0.14  5.10  355.0  15.0 293.8  2.0    0  0.00   50.  1008.     4 NAD-SFC NoSubs
 7  4 17 107 15   97.0  0.640  1.422  0.009 1067.   1227.   -242.7  0.1880  0.32  0.15  6.70  352.0  15.0 293.4  2.0    0  0.00   52.  1007.     5 NAD-SFC NoSubs
 7  4 17 107 16   73.0  0.678  1.307  0.008 1100.   1337.   -383.4  0.1880  0.32  0.16  7.20  349.0  15.0 292.8  2.0    0  0.00   53.  1008.     5 NAD-SFC NoSubs
 7  4 17 107 17   43.7  0.627  1.108  0.009 1118.   1195.   -505.8  0.1880  0.32  0.20  6.70  352.0  15.0 291.6  2.0    0  0.00   55.  1008.     4 NAD-SFC NoSubs
 7  4 17 107 18    8.2  0.427  0.635  0.009 1119.    711.   -852.6  0.1900  0.32  0.33  4.60    3.0  15.0 289.9  2.0    0  0.00   63.  1009.     3 NAD-SFC NoSubs
 7  4 17 107 19  -42.7  0.405 -9.000 -9.000 -999.    620.    140.2  0.1880  0.32  1.00  4.60  347.0  15.0 288.0  2.0    0  0.00   69.  1010.     3 NAD-SFC NoSubs
 7  4 17 107 20  -39.9  0.391 -9.000 -9.000 -999.    586.    134.7  0.1620  0.32  1.00  4.60  320.0  15.0 286.8  2.0    0  0.00   69.  1011.     4 NAD-SFC NoSubs
 7  4 17 107 21  -44.7  0.435 -9.000 -9.000 -999.    688.    166.0  0.1620  0.32  1.00  5.10  309.0  15.0 285.1  2.0    0  0.00   69.  1012.     4 NAD-SFC NoSubs
 7  4 17 107 22  -48.1  0.489 -9.000 -9.000 -999.    819.    219.4  0.1620  0.32  1.00  5.70  315.0  15.0 283.8  2.0    0  0.00   67.  1013.     5 NAD-SFC NoSubs
 7  4 17 107 23  -37.2  0.437 -9.000 -9.000 -999.    695.    202.5  0.1620  0.32  1.00  5.10  312.0  15.0 283.1  2.0    0  0.00   68.  1014.     7 NAD-SFC NoSubs
 7  4 17 107 24  -24.9  0.440 -9.000 -9.000 -999.    702.    310.4  0.1620  0.32  1.00  5.10  315.0  15.0 282.4  2.0    0  0.00   70.  1013.    10 NAD-SFC NoSubs
 7  4 18 108  1  -33.5  0.392 -9.000 -9.000 -999.    591.    162.5  0.1620  0.32  1.00  4.60  309.0  15.0 281.8  2.0    0  0.00   72.  1013.     7 NAD-SFC NoSubs
 7  4 18 108  2  -34.4  0.347 -9.000 -9.000 -999.    492.    109.4  0.1620  0.32  1.00  4.10  309.0  15.0 280.9  2.0    0  0.00   76.  1013.     5 NAD-SFC NoSubs
 7  4 18 108  3  -25.7  0.258 -9.000 -9.000 -999.    318.     60.2  0.0780  0.32  1.00  3.60  298.0  15.0 280.0  2.0    0  0.00   80.  1013.     5 NAD-SFC NoSubs
 7  4 18 108  4  -31.7  0.302 -9.000 -9.000 -999.    399.     78.7  0.1620  0.32  1.00  3.60  307.0  15.0 279.5  2.0    0  0.00   82.  1013.     4 NAD-SFC NoSubs
 7  4 18 108  5  -25.8  0.259 -9.000 -9.000 -999.    317.     60.5  0.1620  0.32  1.00  3.10  314.0  15.0 279.0  2.0    0  0.00   83.  1012.     5 NAD-SFC NoSubs
 7  4 18 108  6  -25.7  0.259 -9.000 -9.000 -999.    316.     60.9  0.1620  0.32  0.69  3.10  308.0  15.0 278.8  2.0    0  0.00   83.  1013.     5 NAD-SFC NoSubs
 7  4 18 108  7   11.6  0.571  0.296  0.005   80.   1037.  -1449.5  0.1880  0.32  0.31  6.20  335.0  15.0 280.6  2.0    0  0.00   71.  1013.     5 NAD-SFC NoSubs
 7  4 18 108  8   42.3  0.626  0.686  0.005  276.   1187.   -524.4  0.1880  0.32  0.19  6.70  332.0  15.0 282.0  2.0    0  0.00   63.  1013.     6 NAD-SFC NoSubs
 7  4 18 108  9   17.2  0.618  0.540  0.005  331.   1167.  -1243.8  0.1880  0.32  0.15  6.70  338.0  15.0 282.8  2.0    0  0.00   57.  1013.    10 NAD-SFC NoSubs
 7  4 18 108 10   91.6  0.682  1.154  0.005  605.   1349.   -312.5  0.1880  0.32  0.14  7.20  344.0  15.0 283.8  2.0    0  0.00   51.  1013.     6 NAD-SFC NoSubs
 7  4 18 108 11  113.5  0.773  1.459  0.006  990.   1626.   -367.2  0.1880  0.32  0.14  8.20  344.0  15.0 284.5  2.0    0  0.00   47.  1013.     5 NAD-SFC NoSubs
 7  4 18 108 12  125.5  0.751  1.615  0.006 1214.   1564.   -304.4  0.1620  0.32  0.14  8.20  327.0  15.0 285.0  2.0    0  0.00   43.  1012.     4 NAD-SFC NoSubs
 7  4 18 108 13  127.0  0.775  1.692  0.006 1378.   1636.   -330.9  0.1880  0.32  0.14  8.20  335.0  15.0 285.8  2.0    0  0.00   39.  1011.     3 NAD-SFC NoSubs
 7  4 18 108 14  118.0  0.774  1.688  0.006 1473.   1633.   -353.6  0.1880  0.32  0.14  8.20  335.0  15.0 286.2  2.0    0  0.00   36.  1011.     3 NAD-SFC NoSubs
 7  4 18 108 15  100.5  0.727  1.629  0.006 1550.   1493.   -344.1  0.1880  0.32  0.15  7.70  334.0  15.0 286.9  2.0    0  0.00   33.  1010.     3 NAD-SFC NoSubs
 7  4 18 108 16   75.2  0.722  1.496  0.006 1605.   1473.   -450.2  0.1880  0.32  0.16  7.70  335.0  15.0 287.1  2.0    0  0.00   32.  1009.     3 NAD-SFC NoSubs
 7  4 18 108 17   42.7  0.539  1.247  0.006 1635.    987.   -329.8  0.1880  0.32  0.20  5.70  331.0  15.0 286.9  2.0    0  0.00   37.  1008.     2 NAD-SFC NoSubs
 7  4 18 108 18    7.0  0.326  0.684  0.006 1638.    497.   -445.5  0.1620  0.32  0.33  3.60  325.0  15.0 285.9  2.0    0  0.00   47.  1008.     2 NAD-SFC NoSubs
 7  4 18 108 19  -33.0  0.302 -9.000 -9.000 -999.    400.     75.1  0.1620  0.32  1.00  3.60  309.0  15.0 284.5  2.0    0  0.00   50.  1008.     2 NAD-SFC NoSubs
 7  4 18 108 20  -22.5  0.219 -9.000 -9.000 -999.    249.     42.0  0.0780  0.32  1.00  3.10  299.0  15.0 283.6  2.0    0  0.00   51.  1008.     2 NAD-SFC NoSubs
 7  4 18 108 21   -2.8  0.085 -9.000 -9.000 -999.     76.     19.4  0.0780  0.32  1.00  1.00  279.0  15.0 283.0  2.0    0  0.00   52.  1008.     2 NAD-SFC NoSubs
 7  4 18 108 22   -2.6  0.081 -9.000 -9.000 -999.     55.     18.4  0.0510  0.32  1.00  1.00   99.0  15.0 282.6  2.0    0  0.00   51.  1009.     2 NAD-SFC NoSubs
 7  4 18 108 23  -25.7  0.232 -9.000 -9.000 -999.    268.     43.8  0.0460  0.32  1.00  3.60  123.0  15.0 281.2  2.0    0  0.00   57.  1009.     2 NAD-SFC NoSubs
 7  4 18 108 24  -25.7  0.232 -9.000 -9.000 -999.    268.     43.7  0.0460  0.32  1.00  3.60  140.0  15.0 280.4  2.0    0  0.00   61.  1008.     2 NAD-SFC NoSubs
 7  4 19 109  1   -7.8  0.123 -9.000 -9.000 -999.    109.     21.4  0.0330  0.32  1.00  2.10  185.0  15.0 280.0  2.0    0  0.00   61.  1008.     3 NAD-SFC NoSubs
 7  4 19 109  2   -5.2  0.105 -9.000 -9.000 -999.     81.     19.7  0.0780  0.32  1.00  1.50  279.0  15.0 279.4  2.0    0  0.00   62.  1008.     2 NAD-SFC NoSubs
 7  4 19 109  3  -13.0  0.169 -9.000 -9.000 -999.    167.     33.5  0.1620  0.32  1.00  2.10  309.0  15.0 278.9  2.0    0  0.00   65.  1008.     2 NAD-SFC NoSubs
 7  4 19 109  4   -3.6  0.096 -9.000 -9.000 -999.     73.     22.0  0.1880  0.32  1.00  1.00  340.0  15.0 278.5  2.0    0  0.00   68.  1008.     2 NAD-SFC NoSubs
 7  4 19 109  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0 278.1  2.0    0  0.00   72.  1008.     2 NAD-SFC NoSubs
 7  4 19 109  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  0.68  0.00    0.0  15.0 277.8  2.0    0  0.00   75.  1008.     2 NAD-SFC NoSubs
 7  4 19 109  7   10.4  0.158  0.248  0.006   52.    150.    -33.9  0.1620  0.32  0.30  1.50  326.0  15.0 279.1  2.0    0  0.00   74.  1008.     2 NAD-SFC NoSubs
 7  4 19 109  8   46.1  0.142  0.631  0.006  195.    128.     -5.5  0.1880  0.32  0.19  1.00  335.0  15.0 280.8  2.0    0  0.00   69.  1008.     2 NAD-SFC NoSubs
 7  4 19 109  9   77.7 -9.000 -9.000 -9.000  357. -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0 282.2  2.0    0  0.00   59.  1008.     2 NAD-SFC NoSubs
 7  4 19 109 10  102.7 -9.000 -9.000 -9.000  534. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0 283.9  2.0    0  0.00   50.  1007.     2 NAD-SFC NoSubs
 7  4 19 109 11  119.8  0.088  1.329  0.005  704.     63.     -1.0  0.0780  0.32  0.14  0.50  287.0  15.0 285.5  2.0    0  0.00   44.  1006.     2 NAD-SFC NoSubs
 7  4 19 109 12  128.2  0.135  1.460  0.005  871.    119.     -1.7  0.0780  0.32  0.14  1.00  288.0  15.0 286.6  2.0    0  0.00   39.  1005.     2 NAD-SFC NoSubs
 7  4 19 109 13  127.8  0.156  1.528  0.006 1000.    148.     -2.7  0.1620  0.32  0.14  1.00  301.0  15.0 287.5  2.0    0  0.00   37.  1004.     2 NAD-SFC NoSubs
 7  4 19 109 14  118.8  0.154  1.532  0.006 1084.    146.     -2.8  0.1620  0.32  0.14  1.00  316.0  15.0 288.2  2.0    0  0.00   35.  1004.     2 NAD-SFC NoSubs
 7  4 19 109 15  101.1  0.203  1.482  0.007 1152.    219.     -7.4  0.1880  0.32  0.15  1.50  336.0  15.0 288.8  2.0    0  0.00   33.  1003.     2 NAD-SFC NoSubs
 7  4 19 109 16   75.6  0.196  1.363  0.007 1199.    209.     -8.9  0.1880  0.32  0.16  1.50  358.0  15.0 288.8  2.0    0  0.00   33.  1002.     2 NAD-SFC NoSubs
 7  4 19 109 17   43.4  0.186  1.142  0.007 1226.    192.    -13.1  0.1900  0.32  0.19  1.50   20.0  15.0 288.5  2.0    0  0.00   39.  1001.     2 NAD-SFC NoSubs
 7  4 19 109 18    7.8  0.194  0.645  0.007 1229.    204.    -83.2  0.1280  0.32  0.32  2.10   36.0  15.0 288.0  2.0    0  0.00   42.  1001.     2 NAD-SFC NoSubs
 7  4 19 109 19   -1.4  0.079 -9.000 -9.000 -999.     63.     31.0  0.1880  0.32  1.00  0.50  353.0  15.0 287.4  2.0    0  0.00   44.  1001.     3 NAD-SFC NoSubs
 7  4 19 109 20  -22.8  0.217 -9.000 -9.000 -999.    242.     40.0  0.0310  0.32  1.00  3.60  258.0  15.0 286.5  2.0    0  0.00   49.  1002.     3 NAD-SFC NoSubs
 7  4 19 109 21  -26.4  0.249 -9.000 -9.000 -999.    298.     52.1  0.0310  0.32  1.00  4.10  265.0  15.0 283.8  2.0    0  0.00   71.  1002.     3 NAD-SFC NoSubs
 7  4 19 109 22  -17.0  0.185 -9.000 -9.000 -999.    192.     33.1  0.0310  0.32  1.00  3.10  264.0  15.0 282.5  2.0    0  0.00   83.  1002.     3 NAD-SFC NoSubs
 7  4 19 109 23  -11.8  0.153 -9.000 -9.000 -999.    143.     26.9  0.0310  0.32  1.00  2.60  250.0  15.0 282.0  2.0    0  0.00   84.  1002.     3 NAD-SFC NoSubs
 7  4 19 109 24   -7.8  0.123 -9.000 -9.000 -999.    104.     21.6  0.0340  0.32  1.00  2.10  239.0  15.0 281.5  2.0    0  0.00   83.  1001.     3 NAD-SFC NoSubs
 7  4 20 110  1   -4.1  0.092 -9.000 -9.000 -999.     67.     16.6  0.0330  0.32  1.00  1.50  209.0  15.0 281.0  2.0    0  0.00   84.  1001.     3 NAD-SFC NoSubs
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7	4	20	110	2	-8.3	0.130	-9.000	-9.000	-999.	113.	23.8	0.0460	0.32	1.00	2.10	148.0	15.0	280.8	2.0	0	0.00	85.	1001.	4	NAD-SFC NoSubs
7	4	20	110	3	-24.0	0.233	-9.000	-9.000	-999.	269.	46.7	0.0460	0.32	1.00	3.60	139.0	15.0	280.2	2.0	0	0.00	87.	1000.	4	NAD-SFC NoSubs
7	4	20	110	4	-22.9	0.233	-9.000	-9.000	-999.	270.	49.2	0.0460	0.32	1.00	3.60	143.0	15.0	280.2	2.0	0	0.00	88.	1000.	5	NAD-SFC NoSubs
7	4	20	110	5	-13.3	0.236	-9.000	-9.000	-999.	275.	88.4	0.0460	0.32	1.00	3.60	145.0	15.0	280.2	2.0	0	0.00	87.	1000.	10	NAD-SFC NoSubs
7	4	20	110	6	-11.2	0.202	-9.000	-9.000	-999.	218.	65.5	0.0460	0.32	0.66	3.10	144.0	15.0	280.8	2.0	0	0.25	85.	1001.	10	NAD-SFC NoSubs
7	4	20	110	7	0.5	0.215	0.052	0.005	10.	240.	-1904.5	0.0460	0.32	0.30	3.10	149.0	15.0	280.8	2.0	0	1.52	88.	1001.	10	NAD-SFC NoSubs
7	4	20	110	8	9.4	0.190	0.244	0.005	55.	199.	-65.1	0.0380	0.32	0.19	2.60	168.0	15.0	281.2	2.0	0	2.79	91.	1002.	10	NAD-SFC NoSubs
7	4	20	110	9	17.5	0.196	0.357	0.005	93.	209.	-38.8	0.0380	0.32	0.15	2.60	173.0	15.0	282.6	2.0	0	1.52	88.	1002.	10	NAD-SFC NoSubs
7	4	20	110	10	92.8	0.074	0.992	0.005	376.	61.	-1.0	0.0380	0.32	0.14	0.50	154.0	15.0	284.9	2.0	0	0.25	73.	1002.	6	NAD-SFC NoSubs
7	4	20	110	11	28.4	-9.000	-9.000	-9.000	440.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	286.5	2.0	0	0.00	61.	1002.	10	NAD-SFC NoSubs
7	4	20	110	12	114.9	0.096	1.274	0.005	643.	72.	-1.0	0.1280	0.32	0.14	0.50	55.0	15.0	287.8	2.0	0	0.00	54.	1001.	6	NAD-SFC NoSubs
7	4	20	110	13	126.5	-9.000	-9.000	-9.000	977.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	289.1	2.0	0	0.00	47.	1001.	4	NAD-SFC NoSubs
7	4	20	110	14	117.8	-9.000	-9.000	-9.000	1173.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	290.0	2.0	0	0.00	42.	1000.	4	NAD-SFC NoSubs
7	4	20	110	15	102.0	0.074	1.557	0.006	1320.	48.	-1.0	0.0340	0.32	0.15	0.50	213.0	15.0	290.6	2.0	0	0.00	40.	999.	3	NAD-SFC NoSubs
7	4	20	110	16	76.7	0.151	1.435	0.006	1373.	140.	-4.0	0.1880	0.32	0.16	1.00	333.0	15.0	291.1	2.0	0	0.00	38.	999.	3	NAD-SFC NoSubs
7	4	20	110	17	44.8	0.186	1.206	0.006	1395.	192.	-12.7	0.1880	0.32	0.19	1.50	332.0	15.0	290.8	2.0	0	0.00	40.	999.	3	NAD-SFC NoSubs
7	4	20	110	18	9.5	0.137	0.719	0.006	1399.	122.	-24.2	0.0780	0.32	0.32	1.50	299.0	15.0	289.8	2.0	0	0.25	48.	1000.	3	NAD-SFC NoSubs
7	4	20	110	19	-7.5	0.122	-9.000	-9.000	-999.	102.	21.4	0.0310	0.32	1.00	2.10	263.0	15.0	288.9	2.0	0	0.25	53.	1001.	3	NAD-SFC NoSubs
7	4	20	110	20	-16.6	0.185	-9.000	-9.000	-999.	191.	34.2	0.0310	0.32	1.00	3.10	266.0	15.0	288.1	2.0	0	0.25	57.	1002.	4	NAD-SFC NoSubs
7	4	20	110	21	-25.3	0.249	-9.000	-9.000	-999.	298.	54.7	0.0310	0.32	1.00	4.10	262.0	15.0	286.1	2.0	0	0.00	70.	1003.	4	NAD-SFC NoSubs
7	4	20	110	22	-28.7	0.281	-9.000	-9.000	-999.	357.	69.2	0.0310	0.32	1.00	4.60	258.0	15.0	284.8	2.0	0	0.00	75.	1004.	4	NAD-SFC NoSubs
7	4	20	110	23	-25.5	0.249	-9.000	-9.000	-999.	299.	54.2	0.0310	0.32	1.00	4.10	261.0	15.0	283.8	2.0	0	0.00	79.	1004.	4	NAD-SFC NoSubs
7	4	20	110	24	-16.8	0.185	-9.000	-9.000	-999.	192.	33.8	0.0310	0.32	1.00	3.10	255.0	15.0	283.2	2.0	0	0.00	82.	1004.	4	NAD-SFC NoSubs
7	4	21	111	1	-7.6	0.123	-9.000	-9.000	-999.	104.	21.9	0.0330	0.32	1.00	2.10	200.0	15.0	282.8	2.0	0	0.00	83.	1005.	4	NAD-SFC NoSubs
7	4	21	111	2	-7.7	0.126	-9.000	-9.000	-999.	107.	23.3	0.0380	0.32	1.00	2.10	165.0	15.0	282.6	2.0	0	0.00	85.	1006.	5	NAD-SFC NoSubs
7	4	21	111	3	-7.2	0.123	-9.000	-9.000	-999.	104.	23.3	0.0330	0.32	1.00	2.10	193.0	15.0	282.0	2.0	0	0.00	86.	1006.	6	NAD-SFC NoSubs
7	4	21	111	4	-7.0	0.124	-9.000	-9.000	-999.	105.	24.6	0.0340	0.32	1.00	2.10	216.0	15.0	281.6	2.0	0	0.00	88.	1006.	7	NAD-SFC NoSubs
7	4	21	111	5	-10.7	0.154	-9.000	-9.000	-999.	145.	30.8	0.0310	0.32	1.00	2.60	248.0	15.0	281.2	2.0	0	0.00	88.	1006.	7	NAD-SFC NoSubs
7	4	21	111	6	-6.7	0.122	-9.000	-9.000	-999.	103.	24.5	0.0310	0.32	0.65	2.10	256.0	15.0	281.0	2.0	0	0.00	89.	1007.	7	NAD-SFC NoSubs
7	4	21	111	7	13.3	0.140	0.314	0.006	84.	126.	-18.8	0.0780	0.32	0.29	1.50	287.0	15.0	282.4	2.0	0	0.00	81.	1008.	6	NAD-SFC NoSubs
7	4	21	111	8	47.0	0.066	0.717	0.006	282.	42.	-1.0	0.0310	0.32	0.19	0.50	259.0	15.0	283.9	2.0	0	0.00	74.	1008.	5	NAD-SFC NoSubs
7	4	21	111	9	78.8	-9.000	-9.000	-9.000	445.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	285.2	2.0	0	0.00	69.	1008.	4	NAD-SFC NoSubs
7	4	21	111	10	104.3	-9.000	-9.000	-9.000	580.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	286.8	2.0	0	0.00	64.	1008.	3	NAD-SFC NoSubs
7	4	21	111	11	121.1	-9.000	-9.000	-9.000	708.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	288.2	2.0	0	0.00	57.	1007.	3	NAD-SFC NoSubs
7	4	21	111	12	129.4	-9.000	-9.000	-9.000	825.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	289.6	2.0	0	0.00	52.	1006.	3	NAD-SFC NoSubs
7	4	21	111	13	129.1	-9.000	-9.000	-9.000	927.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	290.8	2.0	0	0.00	47.	1006.	3	NAD-SFC NoSubs
7	4	21	111	14	120.1	0.101	1.520	0.005	1049.	78.	-1.0	0.1620	0.32	0.14	0.50	328.0	15.0	291.2	2.0	0	0.00	44.	1005.	3	NAD-SFC NoSubs
7	4	21	111	15	102.6	0.156	1.496	0.005	1171.	148.	-3.3	0.1880	0.32	0.15	1.00	343.0	15.0	291.8	2.0	0	0.00	42.	1005.	3	NAD-SFC NoSubs
7	4	21	111	16	77.3	0.248	1.393	0.005	1254.	297.	-17.7	0.1880	0.32	0.16	2.10	359.0	15.0	291.8	2.0	0	0.00	41.	1004.	3	NAD-SFC NoSubs
7	4	21	111	17	45.5	0.186	1.182	0.005	1301.	194.	-12.7	0.1900	0.32	0.19	1.50	24.0	15.0	291.6	2.0	0	0.00	48.	1004.	3	NAD-SFC NoSubs
7	4	21	111	18	10.2	0.163	0.721	0.005	1309.	158.	-37.7	0.1900	0.32	0.32	1.50	24.0	15.0	291.4	2.0	0	0.00	50.	1005.	3	NAD-SFC NoSubs
7	4	21	111	19	-12.6	0.170	-9.000	-9.000	-999.	168.	34.8	0.1620	0.32	0.73	2.10	303.0	15.0	290.8	2.0	0	0.00	51.	1006.	3	NAD-SFC NoSubs
7	4	21	111	20	-30.9	0.295	-9.000	-9.000	-999.	384.	74.5	0.0780	0.32	1.00	4.10	278.0	15.0	288.9	2.0	0	0.00	60.	1007.	3	NAD-SFC NoSubs
7	4	21	111	21	-26.2	0.249	-9.000	-9.000	-999.	299.	52.8	0.0310	0.32	1.00	4.10	269.0	15.0	287.1	2.0	0	0.00	65.	1007.	3	NAD-SFC NoSubs
7	4	21	111	22	-26.2	0.257	-9.000	-9.000	-999.	313.	58.5	0.0780	0.32	1.00	3.60	270.0	15.0	286.4	2.0	0	0.00	66.	1008.	4	NAD-SFC NoSubs
7	4	21	111	23	-17.0	0.185	-9.000	-9.000	-999.	192.	33.3	0.0310	0.32	1.00	3.10	269.0	15.0	286.0	2.0	0	0.00	67.	1008.	3	NAD-SFC NoSubs
7	4	21	111	24	-15.4	0.181	-9.000	-9.000	-999.	186.	34.9	0.0780	0.32	1.00	2.60	287.0	15.0	285.6	2.0	0	0.00	68.	1008.	3	NAD-SFC NoSubs
7	4	22	112	1	-12.5	0.170	-9.000	-9.000	-999.	168.	35.2	0.1620	0.32	1.00	2.10	310.0	15.0	285.2	2.0	0	0.00	71.	1008.	4	NAD-SFC NoSubs
7	4	22	112	2	-12.3	0.170	-9.000	-9.000	-999.	169.	36.2	0.1620	0.32	1.00	2.10	320.0	15.0	284.9	2.0	0	0.00	75.	1008.	5	NAD-SFC NoSubs
7	4	22	112	3	-2.1	0.081	-9.000	-9.000	-999.	59.	22.8	0.1620	0.32	1.00	1.00	326.0	15.0	284.5	2.0	0	0.00	80.	1007.	10	NAD-SFC NoSubs
7	4	22	112	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	284.2	2.0	0	0.00	83.	1007.	10	NAD-SFC NoSubs
7	4	22	112	5	-1.5	0.066	-9.000	-9.000	-999.	40.	17.3	0.0460	0.32	1.00	1.00	120.0	15.0	284.2	2.0	0	0.00	85.	1007.	10	NAD-SFC NoSubs
7	4	22	112	6	-3.2	0.095	-9.000	-9.000	-999.	70.	24.0	0.0510	0.32	0.64	1.50	107.0	15.0	284.1	2.0	0	0.00	86.	1007.	10	NAD-SFC NoSubs
7	4	22	112	7	1.2	0.111	0.193	0.005	210.	89.	-100.3	0.0460	0.32	0.29	1.50	125.0	15.0	284.1	2.0	0	0.25	87.	1007.	10	NAD-SFC NoSubs
7	4	22	112	8	40.3	0.214	0.732	0.005	350.	238.	-21.9	0.0460	0.32	0.18	2.60	131.0	15.0	284.0	2.0	0	0.00	86.	1007.	7	NAD-SFC NoSubs
7	4	22	112	9	79.3	0.258	1.103	0.005	609.	315.	-19.5	0.0460	0.32	0.15	3.10	136.0	15.0	284.2	2.0	0	0.00	83.	1007.	4	NAD-SFC NoSubs
7	4	22	112	10	103.3	0.198	1.377	0.009	908.	212.	-6.7	0.0460	0.32	0.14	2.10	134.0	15.0	285.8	2.0	0	0.00	76.	1007.	4	NAD-SFC NoSubs
7	4	22	112	11	119.9	-9.000	-9.000	-9.000	1007.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	288.2	2.0	0	0.00	66.	1006.	4	NAD-SFC NoSubs
7	4	22	112	12	31.2	0.081	0.961	0.010	1019.	55.	-1.5	0.1280	0.32	0.14	0.50	51.0	15.0	289.5	2.0	0	0.00	61.	1005.	10	NAD-SFC NoSubs
7	4	22	112	13	31.2	0.081	0.964	0.010	1031.	55.	-1.5	0.1280	0.32	0.14	0.50	55.0	15.0	290.2	2.0	0	0.00	57.	1005.	10	NAD-SFC NoSubs
7	4	22	112	14	107.8	-9.000	-9.000	-9.000	1069.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	291.2	2.0	0	0.00	53.	1004.	6	NAD-SFC NoSubs
7	4	22	112	15	98.4	0.102	1.447	0.009	1103.	78.	-1.0	0.1880	0.32	0.14	0.50	340.0	15.0	291.6	2.0	0	0.00	51.	1003.	5	NAD-SFC NoSubs
7	4	22	112	16	74.6	-9.000	-9.000	-9.000	1128.	-999.	-99999.0	0.0879	0.32	0.16	0.00	0.0	15.0	291.8	2.0	0	0.00	51.	1003.	5	NAD-SFC NoSubs
7	4	22	112	17	45.8	0.237	1.135	0.009	1142.	276.	-25.8	0.1880	0.32	0.19	2.10	349.0	15.0	291.8	2.0	0	0.25	51.	1003.	4	NAD-SFC NoSubs
7	4	22	112	18	11.3	0.213	0.713	0.008	1146.	237.	-77.0	0.1880	0.32	0.32	2.10	353.0	15.0	291.1	2.0	0	0.51	58.	1003.	4	NAD-SFC NoSubs
7	4	22	112	19	-6.2	0.120	-9.000	-9.000	-999.	103.	24.8	0.1620	0.32	0.72	1.50	309.0	15.0	290.5	2.0	0	0.51	59.	1004.	4	NAD-SFC NoSubs
7	4	22	112	20	-25.1	0.249	-9.000	-9.000	-999.	299.	55.3	0.0310	0.32	1.00	4.10	264.0	15.0	289.1	2.0	0	0.25	65.	1004.	4	NAD-SFC NoSubs
7	4	22	112	21	-37.5	0.370	-9.000	-9.000	-999.	541.	121.3	0.0780	0.32	1.00	5.10	276.0	15.0	287.1	2.0	0	0.00	74.	1005.	4	NAD-SFC NoSubs
7	4	22	112	22	-29.3	0.303	-9.000	-9.000	-999.	403.	85.0	0.1620	0.32	1.00	3.60	308.0	15.0	286.2	2.0	0	0.00	79.	1005.	5	NAD-SFC NoSubs
7	4	22	112	23	-25.1	0.259	-9.000	-9.000	-999.	317.	62.1	0.1620	0.32	1.00	3.10	314.0	15.0	285.9	2.0	0	0.00	82.	1006.	5	NAD-SFC NoSubs
7	4	22	112	24	-21.2	0.220	-9.000	-9.000	-999.	248.	45.0	0.0780	0.32	1.00	3.10	287.0	15.0	285.5	2.0	0	0.00	84.	1006.	5	NAD-SFC NoSubs
7	4	23	113	1	-18.5	0.221	-9.000	-9.000	-999.	249.	52.3	0.0780	0.32	1.00	3.10	276.0	15.0	285.0	2.0	0	0.00	84.	1006.	7	NAD-SFC NoSubs
7	4	23	113	2	-21.9	0.260	-9.000	-9.000	-999.	318.	72.0	0.1620	0.32	1.00	3.10	300.0	15.0	284.2	2.0	0	0.00	85.	1007.	7	NAD-SFC NoSubs
7	4	23	113	3	-21.9	0.260	-9.000	-9.000	-999.	318.	71.8	0.1620	0.32	1.00	3.10	310.0	15.0	283.5	2.0	0	0.00	86.	1007.	7	NAD-SFC NoSubs
7	4	23	113	4	-23.8	0.259	-9.000	-9.000	-999.	317.	65.8	0.1620	0.32	1.00	3.10	317.0	15.0	283.1	2.0	0	0.00	88.	1008.	6	NAD-SFC NoSubs
7	4	23	113	5	-19.2	0.215	-9.000	-9.000	-999.	239.	46.3	0.1620	0.32	1.00	2.60	310.0	15.0	282.6	2.0	0	0.00	90.	1008.	5	NAD-SFC NoSubs
7	4	23	113	6	-19.2	0.215	-9.000	-9.000	-999.	239.	46.4	0.1620	0.32	0.63	2.60	301.0	15.0	282.2	2.0	0	0.00	91.	1009.	4	NAD-SFC NoSubs

7	4	23	113	7	15.1	0.301	0.325	0.005	81.	397.	-162.4	0.1880	0.32	0.29	3.10	330.0	15.0	283.8	2.0	0	0.00	80.	1009.	4	NAD-SFC NoSubs
7	4	23	113	8	49.7	0.280	0.740	0.005	294.	356.	-39.7	0.1880	0.32	0.18	2.60	345.0	15.0	285.2	2.0	0	0.00	70.	1010.	4	NAD-SFC NoSubs
7	4	23	113	9	81.0	0.192	1.053	0.005	519.	205.	-7.8	0.1620	0.32	0.15	1.50	328.0	15.0	286.8	2.0	0	0.00	62.	1010.	3	NAD-SFC NoSubs
7	4	23	113	10	104.2	0.152	1.306	0.005	769.	142.	-3.0	0.1620	0.32	0.14	1.00	321.0	15.0	288.1	2.0	0	0.00	54.	1009.	4	NAD-SFC NoSubs
7	4	23	113	11	120.6	0.200	1.492	0.005	991.	215.	-6.0	0.1620	0.32	0.14	1.50	318.0	15.0	289.6	2.0	0	0.00	47.	1009.	4	NAD-SFC NoSubs
7	4	23	113	12	130.4	0.202	1.605	0.005	1141.	218.	-5.7	0.1620	0.32	0.14	1.50	320.0	15.0	290.9	2.0	0	0.00	43.	1008.	3	NAD-SFC NoSubs
7	4	23	113	13	130.1	0.208	1.664	0.005	1274.	228.	-6.2	0.1880	0.32	0.14	1.50	332.0	15.0	292.0	2.0	0	0.00	39.	1007.	3	NAD-SFC NoSubs
7	4	23	113	14	121.2	0.260	1.667	0.005	1375.	317.	-12.9	0.1880	0.32	0.14	2.10	337.0	15.0	293.0	2.0	0	0.00	37.	1007.	3	NAD-SFC NoSubs
7	4	23	113	15	103.8	0.255	1.609	0.005	1444.	310.	-14.4	0.1880	0.32	0.14	2.10	351.0	15.0	293.6	2.0	0	0.00	37.	1007.	3	NAD-SFC NoSubs
7	4	23	113	16	78.5	0.290	1.484	0.005	1494.	375.	-27.9	0.1880	0.32	0.16	2.60	359.0	15.0	293.9	2.0	0	0.00	37.	1006.	3	NAD-SFC NoSubs
7	4	23	113	17	46.8	0.279	1.256	0.005	1522.	354.	-41.8	0.1900	0.32	0.19	2.60	1.0	15.0	293.8	2.0	0	0.00	39.	1006.	3	NAD-SFC NoSubs
7	4	23	113	18	11.6	0.164	0.790	0.005	1528.	167.	-34.4	0.1900	0.32	0.31	1.50	9.0	15.0	293.5	2.0	0	0.00	46.	1007.	3	NAD-SFC NoSubs
7	4	23	113	19	-3.4	0.094	-9.000	-9.000	-999.	71.	21.9	0.1900	0.32	0.71	1.00	16.0	15.0	292.6	2.0	0	0.00	48.	1008.	3	NAD-SFC NoSubs
7	4	23	113	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	291.4	2.0	0	0.00	53.	1008.	3	NAD-SFC NoSubs
7	4	23	113	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	289.9	2.0	0	0.00	59.	1008.	3	NAD-SFC NoSubs
7	4	23	113	22	-1.0	0.067	-9.000	-9.000	-999.	42.	26.9	0.0340	0.32	1.00	0.50	210.0	15.0	288.5	2.0	0	0.00	64.	1009.	2	NAD-SFC NoSubs
7	4	23	113	23	-2.4	0.078	-9.000	-9.000	-999.	52.	17.8	0.0380	0.32	1.00	1.00	162.0	15.0	287.2	2.0	0	0.00	67.	1009.	2	NAD-SFC NoSubs
7	4	23	113	24	-8.4	0.130	-9.000	-9.000	-999.	113.	23.5	0.0460	0.32	1.00	2.10	120.0	15.0	286.2	2.0	0	0.00	69.	1009.	3	NAD-SFC NoSubs
7	4	24	114	1	-1.1	0.069	-9.000	-9.000	-999.	45.	27.7	0.0510	0.32	1.00	0.50	94.0	15.0	285.8	2.0	0	0.00	71.	1009.	3	NAD-SFC NoSubs
7	4	24	114	2	-1.5	0.079	-9.000	-9.000	-999.	54.	31.1	0.1880	0.32	1.00	0.50	342.0	15.0	285.5	2.0	0	0.00	72.	1009.	3	NAD-SFC NoSubs
7	4	24	114	3	-6.6	0.121	-9.000	-9.000	-999.	100.	24.0	0.1620	0.32	1.00	1.50	321.0	15.0	285.1	2.0	0	0.00	74.	1009.	2	NAD-SFC NoSubs
7	4	24	114	4	-12.9	0.170	-9.000	-9.000	-999.	167.	33.9	0.1620	0.32	1.00	2.10	316.0	15.0	284.5	2.0	0	0.00	77.	1010.	2	NAD-SFC NoSubs
7	4	24	114	5	-13.0	0.169	-9.000	-9.000	-999.	167.	33.8	0.1620	0.32	1.00	2.10	307.0	15.0	283.9	2.0	0	0.00	80.	1010.	2	NAD-SFC NoSubs
7	4	24	114	6	-6.3	0.120	-9.000	-9.000	-999.	100.	24.9	0.1620	0.32	0.62	1.50	311.0	15.0	283.5	2.0	0	0.00	82.	1011.	3	NAD-SFC NoSubs
7	4	24	114	7	14.5	0.167	0.334	0.008	93.	163.	-28.9	0.1880	0.32	0.28	1.50	346.0	15.0	284.5	2.0	0	0.00	78.	1011.	2	NAD-SFC NoSubs
7	4	24	114	8	50.1	0.093	0.672	0.008	218.	70.	-1.5	0.1900	0.32	0.18	0.50	1.0	15.0	286.4	2.0	0	0.00	70.	1011.	2	NAD-SFC NoSubs
7	4	24	114	9	81.6	-9.000	-9.000	-9.000	345.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	288.2	2.0	0	0.00	62.	1011.	2	NAD-SFC NoSubs
7	4	24	114	10	106.4	-9.000	-9.000	-9.000	483.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	290.2	2.0	0	0.00	55.	1010.	2	NAD-SFC NoSubs
7	4	24	114	11	123.4	-9.000	-9.000	-9.000	617.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	292.2	2.0	0	0.00	49.	1010.	2	NAD-SFC NoSubs
7	4	24	114	12	131.7	0.103	1.402	0.008	754.	79.	-1.0	0.1620	0.32	0.14	0.50	313.0	15.0	293.9	2.0	0	0.00	43.	1009.	2	NAD-SFC NoSubs
7	4	24	114	13	131.4	0.156	1.475	0.008	878.	148.	-2.6	0.1620	0.32	0.14	1.00	319.0	15.0	295.2	2.0	0	0.00	40.	1008.	2	NAD-SFC NoSubs
7	4	24	114	14	122.4	0.160	1.493	0.009	977.	153.	-3.0	0.1880	0.32	0.14	1.00	332.0	15.0	296.0	2.0	0	0.00	38.	1007.	2	NAD-SFC NoSubs
7	4	24	114	15	104.8	0.203	1.442	0.009	1028.	220.	-7.2	0.1880	0.32	0.14	1.50	348.0	15.0	296.6	2.0	0	0.00	36.	1006.	2	NAD-SFC NoSubs
7	4	24	114	16	79.4	0.249	1.330	0.009	1064.	298.	-17.4	0.1880	0.32	0.16	2.10	360.0	15.0	296.9	2.0	0	0.00	36.	1006.	2	NAD-SFC NoSubs
7	4	24	114	17	47.3	0.280	1.127	0.009	1085.	355.	-41.3	0.1900	0.32	0.19	2.60	12.0	15.0	296.8	2.0	0	0.00	38.	1005.	2	NAD-SFC NoSubs
7	4	24	114	18	11.7	0.214	0.709	0.009	1089.	240.	-75.2	0.1900	0.32	0.31	2.10	22.0	15.0	296.2	2.0	0	0.00	44.	1006.	2	NAD-SFC NoSubs
7	4	24	114	19	-5.9	0.114	-9.000	-9.000	-999.	98.	22.8	0.1280	0.32	0.70	1.50	31.0	15.0	295.1	2.0	0	0.00	47.	1006.	2	NAD-SFC NoSubs
7	4	24	114	20	-1.3	0.076	-9.000	-9.000	-999.	51.	30.1	0.1280	0.32	1.00	0.50	39.0	15.0	293.8	2.0	0	0.00	51.	1006.	2	NAD-SFC NoSubs
7	4	24	114	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	292.1	2.0	0	0.00	58.	1006.	2	NAD-SFC NoSubs
7	4	24	114	22	-1.0	0.067	-9.000	-9.000	-999.	41.	26.7	0.0330	0.32	1.00	0.50	190.0	15.0	290.5	2.0	0	0.00	65.	1006.	2	NAD-SFC NoSubs
7	4	24	114	23	-1.0	0.067	-9.000	-9.000	-999.	42.	26.8	0.0330	0.32	1.00	0.50	195.0	15.0	289.2	2.0	0	0.00	70.	1006.	2	NAD-SFC NoSubs
7	4	24	114	24	-1.0	0.067	-9.000	-9.000	-999.	41.	26.7	0.0310	0.32	1.00	0.50	260.0	15.0	288.5	2.0	0	0.00	71.	1006.	2	NAD-SFC NoSubs
7	4	25	115	1	-3.5	0.095	-9.000	-9.000	-999.	70.	21.9	0.1880	0.32	1.00	1.00	332.0	15.0	288.0	2.0	0	0.00	71.	1006.	2	NAD-SFC NoSubs
7	4	25	115	2	-13.6	0.176	-9.000	-9.000	-999.	177.	36.0	0.1880	0.32	1.00	2.10	338.0	15.0	287.5	2.0	0	0.00	73.	1006.	2	NAD-SFC NoSubs
7	4	25	115	3	-13.7	0.176	-9.000	-9.000	-999.	177.	35.9	0.1880	0.32	1.00	2.10	348.0	15.0	286.8	2.0	0	0.00	77.	1007.	2	NAD-SFC NoSubs
7	4	25	115	4	-6.5	0.120	-9.000	-9.000	-999.	101.	24.0	0.1620	0.32	1.00	1.50	326.0	15.0	286.2	2.0	0	0.00	79.	1007.	2	NAD-SFC NoSubs
7	4	25	115	5	-3.4	0.093	-9.000	-9.000	-999.	68.	21.5	0.1620	0.32	1.00	1.00	312.0	15.0	285.9	2.0	0	0.00	79.	1007.	2	NAD-SFC NoSubs
7	4	25	115	6	-3.2	0.091	-9.000	-9.000	-999.	66.	21.3	0.1620	0.32	0.60	1.00	314.0	15.0	285.6	2.0	0	0.00	80.	1008.	2	NAD-SFC NoSubs
7	4	25	115	7	15.3	-9.000	-9.000	-9.000	86.	-999.	-99999.0	0.0879	0.32	0.28	0.00	0.0	15.0	285.6	2.0	0	0.00	80.	1008.	2	NAD-SFC NoSubs
7	4	25	115	8	50.9	0.143	0.637	0.009	182.	130.	-5.2	0.1880	0.32	0.18	1.00	350.0	15.0	287.2	2.0	0	0.00	73.	1008.	2	NAD-SFC NoSubs
7	4	25	115	9	82.3	-9.000	-9.000	-9.000	297.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	289.1	2.0	0	0.00	66.	1008.	2	NAD-SFC NoSubs
7	4	25	115	10	107.0	-9.000	-9.000	-9.000	416.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	290.8	2.0	0	0.00	60.	1008.	2	NAD-SFC NoSubs
7	4	25	115	11	123.9	-9.000	-9.000	-9.000	564.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	292.5	2.0	0	0.00	53.	1007.	2	NAD-SFC NoSubs
7	4	25	115	12	132.1	-9.000	-9.000	-9.000	711.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	294.1	2.0	0	0.00	48.	1006.	2	NAD-SFC NoSubs
7	4	25	115	13	131.8	0.156	1.482	0.010	886.	149.	-2.6	0.1620	0.32	0.14	1.00	313.0	15.0	295.4	2.0	0	0.00	44.	1005.	2	NAD-SFC NoSubs
7	4	25	115	14	122.9	0.207	1.503	0.010	991.	226.	-6.4	0.1880	0.32	0.14	1.50	335.0	15.0	296.4	2.0	0	0.00	41.	1004.	2	NAD-SFC NoSubs
7	4	25	115	15	105.3	0.298	1.447	0.010	1031.	390.	-22.4	0.1880	0.32	0.14	2.60	351.0	15.0	297.2	2.0	0	0.00	39.	1003.	2	NAD-SFC NoSubs
7	4	25	115	16	80.1	0.500	1.334	0.010	1061.	847.	-139.1	0.1880	0.32	0.15	5.10	352.0	15.0	298.1	2.0	0	0.00	37.	1002.	2	NAD-SFC NoSubs
7	4	25	115	17	47.9	0.362	1.130	0.010	1077.	538.	-88.6	0.1880	0.32	0.19	3.60	349.0	15.0	297.2	2.0	0	0.00	45.	1002.	2	NAD-SFC NoSubs
7	4	25	115	18	12.1	0.385	0.715	0.009	1079.	573.	-422.1	0.1880	0.32	0.31	4.10	354.0	15.0	295.9	2.0	0	0.00	54.	1002.	2	NAD-SFC NoSubs
7	4	25	115	19	-41.3	0.405	-9.000	-9.000	-999.	619.	144.2	0.1880	0.32	0.69	4.60	344.0	15.0	293.8	2.0	0	0.00	61.	1002.	3	NAD-SFC NoSubs
7	4	25	115	20	-41.8	0.405	-9.000	-9.000	-999.	619.	142.3	0.1880	0.32	1.00	4.60	330.0	15.0	292.1	2.0	0	0.00	66.	1003.	3	NAD-SFC NoSubs
7	4	25	115	21	-37.2	0.359	-9.000	-9.000	-999.	519.	111.6	0.1880	0.32	1.00	4.10	331.0	15.0	291.2	2.0	0	0.00	67.	1003.	3	NAD-SFC NoSubs
7	4	25	115	22	-36.0	0.346	-9.000	-9.000	-999.	490.	103.4	0.1620	0.32	1.00	4.10	316.0	15.0	290.4	2.0	0	0.00	69.	1003.	3	NAD-SFC NoSubs
7	4	25	115	23	-40.7	0.390	-9.000	-9.000	-999.	585.	130.8	0.1620	0.32	1.00	4.60	307.0	15.0	289.2	2.0	0	0.00	74.	1003.	3	NAD-SFC NoSubs
7	4	25	115	24	-31.6	0.302	-9.000	-9.000	-999.	404.	78.1	0.1620	0.32	1.00	3.60	314.0	15.0	288.1	2.0	0	0.00	74.	1003.	3	NAD-SFC NoSubs
7	4	26	116	1	-27.1	0.258	-9.000	-9.000	-999.	316.	56.9	0.1620	0.32	1.00	3.10	309.0	15.0	287.5	2.0	0	0.00	74.	1003.	3	NAD-SFC NoSubs
7	4	26	116	2	-15.3	0.182	-9.000	-9.000	-999.	188.	35.1	0.0780	0.32	1.00	2.60	293.0	15.0	287.1	2.0	0	0.00	73.	1004.	3	NAD-SFC NoSubs
7	4	26	116	3	-2.7	0.084	-9.000	-9.000	-999.	63.	19.3	0.0780	0.32	1.00	1.00	278.0	15.0	286.8	2.0	0	0.00	73.	1004.	3	NAD-SFC NoSubs
7	4	26	116	4	-1.0	0.067	-9.000	-9.000	-999.	42.	27.0	0.0380	0.32	1.00	0.50	162.0	15.0	286.4	2.0	0	0.00	74.	1004.	3	NAD-SFC NoSubs
7	4	26	116	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	286.2	2.0	0	0.00	74.	1004.	3	NAD-SFC NoSubs
7	4	26	116	6	-1.1	0.069	-9.000	-9.000	-999.	44.	27.8	0.0780	0.32	0.59	0.50	272.0	15.0	285.9	2.0	0	0.00	76.	1004.	3	NAD-SFC NoSubs
7	4	26	116	7	17.0	0.081	0.414	0.006	149.	55.	-2.8	0.1880	0.32	0.28	0.50	345.0	15.0	287.1	2.0	0	0.00	70.	1004.	3	NAD-SFC NoSubs
7	4	26	116	8	51.7	-9.000	-9.000	-9.000	323.	-999.	-99999.0	0.0879	0.32	0.18	0.00	0.0	15.0	288.5	2.0	0	0.00	64.	1004.	2	NAD-SFC NoSubs
7	4	26	116	9	83.0	-9.000	-9.000	-9.000	470.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	290.0	2.0	0	0.00	59.	1004.	2	NAD-SFC NoSubs
7	4	26	116	10	107.7	-9.000	-9.000	-9.000	610.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	291.8	2.0	0	0.00	53.	1003.	2	NAD-SFC NoSubs
7	4	26	116	11	124.5	-9.000	-9.000	-9.000	737.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	293.5	2.0	0	0.00	46.	1003.	2	NAD-SFC NoSubs

7	4	26	116	12	132.7	-9.000	-9.000	-9.000	852.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	295.0	2.0	0	0.00	42.	1002.	2	NAD-SFC	NoSubs
7	4	26	116	13	132.4	0.103	1.523	0.006	954.	79.	-1.0	0.1620	0.32	0.14	0.50	312.0	15.0	296.2	2.0	0	0.00	39.	1001.	2	NAD-SFC	NoSubs
7	4	26	116	14	123.5	0.160	1.537	0.006	1051.	154.	-3.0	0.1880	0.32	0.14	1.00	334.0	15.0	297.2	2.0	0	0.00	37.	1000.	2	NAD-SFC	NoSubs
7	4	26	116	15	105.9	0.204	1.497	0.007	1130.	221.	-7.1	0.1880	0.32	0.14	1.50	340.0	15.0	297.9	2.0	0	0.00	36.	999.	2	NAD-SFC	NoSubs
7	4	26	116	16	80.5	0.249	1.389	0.007	1186.	299.	-17.1	0.1880	0.32	0.15	2.10	354.0	15.0	298.2	2.0	0	0.00	36.	999.	2	NAD-SFC	NoSubs
7	4	26	116	17	48.6	-9.000	-9.000	-9.000	1219.	-999.	-99999.0	0.0879	0.32	0.19	0.00	0.0	15.0	298.2	2.0	0	0.00	37.	999.	2	NAD-SFC	NoSubs
7	4	26	116	18	13.1	0.166	0.767	0.007	1227.	162.	-31.2	0.1900	0.32	0.31	1.50	15.0	15.0	298.0	2.0	0	0.00	43.	999.	2	NAD-SFC	NoSubs
7	4	26	116	19	-6.7	0.125	-9.000	-9.000	-999.	106.	25.8	0.1900	0.32	0.69	1.50	6.0	15.0	297.0	2.0	0	0.00	46.	1000.	2	NAD-SFC	NoSubs
7	4	26	116	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	295.6	2.0	0	0.00	50.	1000.	2	NAD-SFC	NoSubs
7	4	26	116	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	294.0	2.0	0	0.00	57.	1000.	2	NAD-SFC	NoSubs
7	4	26	116	22	-1.1	0.069	-9.000	-9.000	-999.	44.	27.7	0.0510	0.32	1.00	0.50	117.0	15.0	292.6	2.0	0	0.00	64.	1001.	2	NAD-SFC	NoSubs
7	4	26	116	23	-1.1	0.069	-9.000	-9.000	-999.	44.	27.8	0.0510	0.32	1.00	0.50	107.0	15.0	291.4	2.0	0	0.00	69.	1001.	2	NAD-SFC	NoSubs
7	4	26	116	24	-1.1	0.070	-9.000	-9.000	-999.	44.	27.8	0.0510	0.32	1.00	0.50	108.0	15.0	290.4	2.0	0	0.00	74.	1001.	2	NAD-SFC	NoSubs
7	4	27	117	1	-1.1	0.070	-9.000	-9.000	-999.	44.	27.8	0.0510	0.32	1.00	0.50	109.0	15.0	289.8	2.0	0	0.00	76.	1001.	2	NAD-SFC	NoSubs
7	4	27	117	2	-1.1	0.070	-9.000	-9.000	-999.	44.	27.9	0.0510	0.32	1.00	0.50	110.0	15.0	289.1	2.0	0	0.00	77.	1002.	2	NAD-SFC	NoSubs
7	4	27	117	3	-1.0	0.067	-9.000	-9.000	-999.	41.	26.6	0.0310	0.32	1.00	0.50	269.0	15.0	288.8	2.0	0	0.00	77.	1002.	2	NAD-SFC	NoSubs
7	4	27	117	4	-9.9	0.144	-9.000	-9.000	-999.	131.	27.0	0.0780	0.32	1.00	2.10	280.0	15.0	288.4	2.0	0	0.00	75.	1002.	2	NAD-SFC	NoSubs
7	4	27	117	5	-22.2	0.219	-9.000	-9.000	-999.	246.	42.4	0.0780	0.32	1.00	3.10	287.0	15.0	287.9	2.0	0	0.00	76.	1003.	2	NAD-SFC	NoSubs
7	4	27	117	6	-19.0	0.215	-9.000	-9.000	-999.	239.	46.7	0.1620	0.32	0.58	2.60	311.0	15.0	287.6	2.0	0	0.00	77.	1003.	2	NAD-SFC	NoSubs
7	4	27	117	7	17.1	0.219	0.306	0.009	60.	246.	-54.9	0.1880	0.32	0.27	2.10	339.0	15.0	289.1	2.0	0	0.00	69.	1004.	2	NAD-SFC	NoSubs
7	4	27	117	8	52.8	0.140	0.609	0.010	153.	128.	-4.6	0.1620	0.32	0.18	1.00	317.0	15.0	291.1	2.0	0	0.00	60.	1004.	2	NAD-SFC	NoSubs
7	4	27	117	9	84.2	0.084	0.885	0.010	294.	59.	-1.0	0.0780	0.32	0.15	0.50	295.0	15.0	293.4	2.0	0	0.00	53.	1003.	2	NAD-SFC	NoSubs
7	4	27	117	10	109.2	0.087	1.101	0.010	437.	61.	-1.0	0.0780	0.32	0.14	0.50	290.0	15.0	296.0	2.0	0	0.00	44.	1003.	2	NAD-SFC	NoSubs
7	4	27	117	11	126.2	-9.000	-9.000	-9.000	565.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	298.1	2.0	0	0.00	39.	1003.	2	NAD-SFC	NoSubs
7	4	27	117	12	134.6	-9.000	-9.000	-9.000	672.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	300.1	2.0	0	0.00	34.	1002.	2	NAD-SFC	NoSubs
7	4	27	117	13	134.4	0.103	1.410	0.009	745.	79.	-1.0	0.1620	0.32	0.14	0.50	319.0	15.0	301.8	2.0	0	0.00	30.	1001.	2	NAD-SFC	NoSubs
7	4	27	117	14	125.5	0.160	1.416	0.008	808.	154.	-2.9	0.1880	0.32	0.14	1.00	356.0	15.0	302.8	2.0	0	0.00	28.	1000.	2	NAD-SFC	NoSubs
7	4	27	117	15	108.0	0.257	1.374	0.008	857.	313.	-14.1	0.1900	0.32	0.14	2.10	10.0	15.0	303.2	2.0	0	0.00	28.	1000.	2	NAD-SFC	NoSubs
7	4	27	117	16	82.5	0.334	1.273	0.007	893.	463.	-40.3	0.1900	0.32	0.15	3.10	8.0	15.0	303.1	2.0	0	0.00	31.	1000.	2	NAD-SFC	NoSubs
7	4	27	117	17	50.2	-9.000	-9.000	-9.000	912.	-999.	-99999.0	0.0879	0.32	0.19	0.00	0.0	15.0	301.9	2.0	0	0.00	43.	1000.	2	NAD-SFC	NoSubs
7	4	27	117	18	14.3	-9.000	-9.000	-9.000	917.	-999.	-99999.0	0.0879	0.32	0.30	0.00	0.0	15.0	300.8	2.0	0	0.00	47.	1000.	2	NAD-SFC	NoSubs
7	4	27	117	19	-27.2	0.268	-9.000	-9.000	-999.	334.	63.5	0.1880	0.32	0.68	3.10	346.0	15.0	299.8	2.0	0	0.00	47.	1000.	2	NAD-SFC	NoSubs
7	4	27	117	20	-9.7	0.144	-9.000	-9.000	-999.	140.	27.5	0.0780	0.32	1.00	2.10	299.0	15.0	298.6	2.0	0	0.00	50.	1001.	2	NAD-SFC	NoSubs
7	4	27	117	21	-16.8	0.185	-9.000	-9.000	-999.	191.	33.6	0.0310	0.32	1.00	3.10	266.0	15.0	297.5	2.0	0	0.00	52.	1001.	2	NAD-SFC	NoSubs
7	4	27	117	22	-21.9	0.219	-9.000	-9.000	-999.	247.	43.1	0.0780	0.32	1.00	3.10	277.0	15.0	296.2	2.0	0	0.00	54.	1001.	2	NAD-SFC	NoSubs
7	4	27	117	23	-9.8	0.144	-9.000	-9.000	-999.	133.	27.4	0.0780	0.32	1.00	2.10	278.0	15.0	295.2	2.0	0	0.00	55.	1002.	2	NAD-SFC	NoSubs
7	4	27	117	24	-3.4	0.094	-9.000	-9.000	-999.	70.	21.9	0.1880	0.32	1.00	1.00	339.0	15.0	294.2	2.0	0	0.00	58.	1002.	2	NAD-SFC	NoSubs
7	4	28	118	1	-3.1	0.089	-9.000	-9.000	-999.	64.	20.7	0.1280	0.32	1.00	1.00	42.0	15.0	293.4	2.0	0	0.00	62.	1002.	2	NAD-SFC	NoSubs
7	4	28	118	2	-1.4	0.080	-9.000	-9.000	-999.	54.	31.1	0.1880	0.32	1.00	0.50	341.0	15.0	292.8	2.0	0	0.00	65.	1002.	2	NAD-SFC	NoSubs
7	4	28	118	3	-5.1	0.104	-9.000	-9.000	-999.	81.	20.0	0.0780	0.32	1.00	1.50	290.0	15.0	292.2	2.0	0	0.00	67.	1002.	2	NAD-SFC	NoSubs
7	4	28	118	4	-27.4	0.258	-9.000	-9.000	-999.	315.	56.2	0.1620	0.32	1.00	3.10	304.0	15.0	291.6	2.0	0	0.00	69.	1002.	2	NAD-SFC	NoSubs
7	4	28	118	5	-27.5	0.258	-9.000	-9.000	-999.	315.	56.0	0.1620	0.32	1.00	3.10	325.0	15.0	290.8	2.0	0	0.00	75.	1003.	2	NAD-SFC	NoSubs
7	4	28	118	6	-18.7	0.215	-9.000	-9.000	-999.	240.	47.6	0.1620	0.32	0.57	2.60	322.0	15.0	290.1	2.0	0	0.00	79.	1003.	2	NAD-SFC	NoSubs
7	4	28	118	7	18.0	0.213	0.339	0.010	77.	237.	-48.5	0.1620	0.32	0.27	2.10	327.0	15.0	290.2	2.0	0	0.00	80.	1004.	2	NAD-SFC	NoSubs
7	4	28	118	8	53.5	0.189	0.615	0.011	155.	197.	-11.3	0.1880	0.32	0.18	1.50	342.0	15.0	291.8	2.0	0	0.00	72.	1004.	2	NAD-SFC	NoSubs
7	4	28	118	9	84.9	-9.000	-9.000	-9.000	249.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	294.1	2.0	0	0.00	63.	1004.	2	NAD-SFC	NoSubs
7	4	28	118	10	109.8	-9.000	-9.000	-9.000	359.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	296.8	2.0	0	0.00	53.	1003.	2	NAD-SFC	NoSubs
7	4	28	118	11	126.7	-9.000	-9.000	-9.000	498.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	298.8	2.0	0	0.00	44.	1003.	2	NAD-SFC	NoSubs
7	4	28	118	12	135.0	-9.000	-9.000	-9.000	630.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	300.4	2.0	0	0.00	40.	1002.	2	NAD-SFC	NoSubs
7	4	28	118	13	134.8	-9.000	-9.000	-9.000	736.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	301.8	2.0	0	0.00	37.	1001.	2	NAD-SFC	NoSubs
7	4	28	118	14	126.0	0.102	1.427	0.008	823.	78.	-1.0	0.1620	0.32	0.14	0.50	317.0	15.0	303.0	2.0	0	0.00	34.	1000.	2	NAD-SFC	NoSubs
7	4	28	118	15	108.4	0.152	1.393	0.007	891.	143.	-2.9	0.1620	0.32	0.14	1.00	325.0	15.0	303.6	2.0	0	0.00	32.	1000.	2	NAD-SFC	NoSubs
7	4	28	118	16	82.8	0.243	1.296	0.006	938.	287.	-15.4	0.1620	0.32	0.15	2.10	324.0	15.0	303.1	2.0	0	0.00	40.	999.	2	NAD-SFC	NoSubs
7	4	28	118	17	50.5	0.353	1.109	0.006	963.	502.	-77.2	0.1620	0.32	0.19	3.60	329.0	15.0	301.8	2.0	0	0.00	47.	999.	2	NAD-SFC	NoSubs
7	4	28	118	18	14.4	0.343	0.731	0.006	967.	483.	-250.5	0.1880	0.32	0.30	3.60	336.0	15.0	299.6	2.0	0	0.00	56.	1000.	2	NAD-SFC	NoSubs
7	4	28	118	19	-31.7	0.314	-9.000	-9.000	-999.	423.	87.0	0.1880	0.32	0.67	3.60	345.0	15.0	298.5	2.0	0	0.00	58.	1000.	2	NAD-SFC	NoSubs
7	4	28	118	20	-35.9	0.346	-9.000	-9.000	-999.	489.	103.3	0.1620	0.32	1.00	4.10	307.0	15.0	297.9	2.0	0	0.00	57.	1001.	2	NAD-SFC	NoSubs
7	4	28	118	21	-26.8	0.257	-9.000	-9.000	-999.	317.	56.6	0.0780	0.32	1.00	3.60	280.0	15.0	296.1	2.0	0	0.00	61.	1001.	2	NAD-SFC	NoSubs
7	4	28	118	22	-16.9	0.185	-9.000	-9.000	-999.	193.	33.4	0.0310	0.32	1.00	3.10	265.0	15.0	294.6	2.0	0	0.00	65.	1002.	2	NAD-SFC	NoSubs
7	4	28	118	23	-11.7	0.153	-9.000	-9.000	-999.	143.	27.1	0.0310	0.32	1.00	2.60	261.0	15.0	293.9	2.0	0	0.00	65.	1002.	2	NAD-SFC	NoSubs
7	4	28	118	24	-5.1	0.104	-9.000	-9.000	-999.	81.	20.0	0.0780	0.32	1.00	1.50	273.0	15.0	293.4	2.0	0	0.00	66.	1002.	2	NAD-SFC	NoSubs
7	4	29	119	1	-5.1	0.104	-9.000	-9.000	-999.	81.	20.0	0.0780	0.32	1.00	1.50	280.0	15.0	292.9	2.0	0	0.00	67.	1002.	2	NAD-SFC	NoSubs
7	4	29	119	2	-15.3	0.181	-9.000	-9.000	-999.	186.	34.9	0.0780	0.32	1.00	2.60	287.0	15.0	292.4	2.0	0	0.00	70.	1003.	2	NAD-SFC	NoSubs
7	4	29	119	3	-27.4	0.258	-9.000	-9.000	-999.	315.	56.3	0.1620	0.32	1.00	3.10	310.0	15.0	291.9	2.0	0	0.00	74.	1003.	2	NAD-SFC	NoSubs
7	4	29	119	4	-27.4	0.258	-9.000	-9.000	-999.	315.	56.1	0.1620	0.32	1.00	3.10	320.0	15.0	291.2	2.0	0	0.00	79.	1003.	2	NAD-SFC	NoSubs
7	4	29	119	5	-19.9	0.214	-9.000	-9.000	-999.	238.	44.1	0.1620	0.32	1.00	2.60	329.0	15.0	290.9	2.0	0	0.00	83.	1003.	2	NAD-SFC	NoSubs
7	4	29	119	6	-12.6	0.177	-9.000	-9.000	-999.	180.	39.7	0.1880	0.32	0.57	2.10	331.0	15.0	290.5	2.0	0	0.00	86.	1004.	2	NAD-SFC	NoSubs
7	4	29	119	7	18.7	0.221	0.406	0.011	128.	249.	-51.4	0.1880	0.32	0.27	2.10	349.0	15.0	290.8	2.0	0	0.00	84.	1004.	2	NAD-SFC	NoSubs
7	4	29	119	8	54.3	0.145	0.698	0.011	225.	134.	-5.0	0.1880	0.32	0.18	1.00	347.0	15.0	292.6	2.0	0	0.00	74.	1004.	2	NAD-SFC	NoSubs
7	4	29	119	9	85.6	-9.000	-9.000	-9.000	330.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	294.8	2.0	0	0.00	65.	1004.	2	NAD-SFC	NoSubs
7	4	29	119	10	110.1	-9.000	-9.000	-9.000	433.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	296.4	2.0	0	0.00	60.	1003.	2	NAD-SFC	NoSubs
7	4	29	119	11	126.9	-9.000	-9.000	-9.000	530.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	297.9	2.0	0	0.00	55.	1003.	2	NAD-SFC	NoSubs
7	4	29	119	12	135.0	-9.000	-9.000	-9.000	618.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	299.2	2.0	0	0.00	50.	1002.	2	NAD-SFC	NoSubs
7	4	29	119	13	134.8	0.103	1.392	0.008	716.	79.	-1.0	0.1620	0.32	0.14	0.50	300.0	15.0	300.8	2.0	0	0.00	45.	1001.	2	NAD-SFC	NoSubs
7	4	29	119	14	125.8	0.156	1.419	0.009	811.	147.	-2.7	0.1620	0.32	0.14	1.00	319.0	15.0	301.6	2.0	0	0.00	41.	1001.	2	NAD-SFC	NoSubs
7	4	29	119	15	108.2	0.299	1.389	0.009	885.	391.	-22.0	0.1880	0.32	0.14	2.60	350.0	15.0	301.9	2.0	0	0.00	39.	1001.	2	NAD-SFC	NoSubs
7	4	29	119	16	82.8	-9.000	-9.000	-9.000	938.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	301.9	2.0	0	0.00	40.	1000.	2	NAD-SFC	NoSubs

7	4	29	119	17	50.8	0.322	1.112	0.009	967.	439.	-58.9	0.1900	0.32	0.19	3.10	12.0	15.0	301.2	2.0	0	0.00	50.	1000.	2	NAD-SFC	NoSubs
7	4	29	119	18	15.0	0.345	0.743	0.009	973.	486.	-243.2	0.1900	0.32	0.30	3.60	15.0	15.0	300.2	2.0	0	0.00	58.	1001.	2	NAD-SFC	NoSubs
7	4	29	119	19	-31.6	0.315	-9.000	-9.000	-999.	425.	88.1	0.1900	0.32	0.66	3.60	4.0	15.0	298.8	2.0	0	0.00	62.	1001.	2	NAD-SFC	NoSubs
7	4	29	119	20	-30.6	0.303	-9.000	-9.000	-999.	400.	80.9	0.1620	0.32	1.00	3.60	321.0	15.0	297.9	2.0	0	0.00	62.	1002.	3	NAD-SFC	NoSubs
7	4	29	119	21	-30.0	0.295	-9.000	-9.000	-999.	385.	76.5	0.0780	0.32	1.00	4.10	287.0	15.0	296.4	2.0	0	0.00	66.	1002.	3	NAD-SFC	NoSubs
7	4	29	119	22	-26.3	0.257	-9.000	-9.000	-999.	314.	57.9	0.0780	0.32	1.00	3.60	287.0	15.0	294.5	2.0	0	0.00	71.	1003.	3	NAD-SFC	NoSubs
7	4	29	119	23	-26.5	0.257	-9.000	-9.000	-999.	313.	57.7	0.0780	0.32	1.00	3.60	297.0	15.0	293.4	2.0	0	0.00	73.	1004.	3	NAD-SFC	NoSubs
7	4	29	119	24	-32.4	0.314	-9.000	-9.000	-999.	422.	85.4	0.1880	0.32	1.00	3.60	330.0	15.0	292.2	2.0	0	0.00	75.	1004.	3	NAD-SFC	NoSubs
7	4	30	120	1	-27.8	0.268	-9.000	-9.000	-999.	334.	62.1	0.1880	0.32	1.00	3.10	336.0	15.0	291.2	2.0	0	0.00	75.	1004.	3	NAD-SFC	NoSubs
7	4	30	120	2	-20.5	0.223	-9.000	-9.000	-999.	253.	48.1	0.1880	0.32	1.00	2.60	339.0	15.0	290.5	2.0	0	0.00	74.	1005.	4	NAD-SFC	NoSubs
7	4	30	120	3	-6.6	0.124	-9.000	-9.000	-999.	109.	26.0	0.1880	0.32	1.00	1.50	337.0	15.0	290.0	2.0	0	0.00	72.	1005.	4	NAD-SFC	NoSubs
7	4	30	120	4	-1.4	0.079	-9.000	-9.000	-999.	54.	30.9	0.1880	0.32	1.00	0.50	338.0	15.0	289.4	2.0	0	0.00	72.	1005.	3	NAD-SFC	NoSubs
7	4	30	120	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	288.9	2.0	0	0.00	73.	1005.	3	NAD-SFC	NoSubs
7	4	30	120	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	0.56	0.00	0.0	15.0	288.5	2.0	0	0.00	74.	1005.	3	NAD-SFC	NoSubs
7	4	30	120	7	19.8	0.083	0.463	0.010	179.	57.	-2.6	0.1880	0.32	0.27	0.50	347.0	15.0	289.2	2.0	0	0.00	66.	1006.	3	NAD-SFC	NoSubs
7	4	30	120	8	54.9	-9.000	-9.000	-9.000	266.	-999.	-99999.0	0.0879	0.32	0.18	0.00	0.0	15.0	290.8	2.0	0	0.00	61.	1005.	3	NAD-SFC	NoSubs
7	4	30	120	9	85.5	-9.000	-9.000	-9.000	350.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	292.6	2.0	0	0.00	56.	1005.	2	NAD-SFC	NoSubs
7	4	30	120	10	110.1	-9.000	-9.000	-9.000	463.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	294.6	2.0	0	0.00	52.	1004.	2	NAD-SFC	NoSubs
7	4	30	120	11	126.9	-9.000	-9.000	-9.000	586.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	296.4	2.0	0	0.00	47.	1004.	2	NAD-SFC	NoSubs
7	4	30	120	12	135.0	0.089	1.383	0.005	702.	64.	-1.0	0.0780	0.32	0.14	0.50	288.0	15.0	298.1	2.0	0	0.00	42.	1003.	2	NAD-SFC	NoSubs
7	4	30	120	13	134.6	-9.000	-9.000	-9.000	811.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	299.2	2.0	0	0.00	38.	1002.	2	NAD-SFC	NoSubs
7	4	30	120	14	125.7	0.102	1.469	0.005	903.	78.	-1.0	0.1620	0.32	0.14	0.50	307.0	15.0	300.1	2.0	0	0.00	34.	1001.	2	NAD-SFC	NoSubs
7	4	30	120	15	108.0	0.157	1.435	0.005	976.	149.	-3.2	0.1880	0.32	0.14	1.00	353.0	15.0	300.5	2.0	0	0.00	32.	1000.	2	NAD-SFC	NoSubs
7	4	30	120	16	82.6	-9.000	-9.000	-9.000	1073.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	300.2	2.0	0	0.00	41.	1000.	2	NAD-SFC	NoSubs
7	4	30	120	17	50.7	0.322	1.170	0.006	1128.	439.	-58.9	0.1900	0.32	0.19	3.10	8.0	15.0	299.6	2.0	0	0.00	47.	999.	2	NAD-SFC	NoSubs
7	4	30	120	18	14.9	0.302	0.782	0.006	1139.	398.	-164.2	0.1900	0.32	0.30	3.10	22.0	15.0	298.5	2.0	0	0.00	52.	1000.	2	NAD-SFC	NoSubs
7	4	30	120	19	-13.2	0.177	-9.000	-9.000	-999.	188.	37.6	0.1900	0.32	0.65	2.10	22.0	15.0	297.6	2.0	0	0.00	54.	1000.	2	NAD-SFC	NoSubs
7	4	30	120	20	-1.4	0.079	-9.000	-9.000	-999.	60.	30.9	0.1900	0.32	1.00	0.50	22.0	15.0	296.8	2.0	0	0.00	57.	1000.	2	NAD-SFC	NoSubs
7	4	30	120	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	295.8	2.0	0	0.00	61.	1000.	2	NAD-SFC	NoSubs
7	4	30	120	22	-1.2	0.072	-9.000	-9.000	-999.	46.	28.8	0.0780	0.32	1.00	0.50	285.0	15.0	295.0	2.0	0	0.00	65.	1000.	2	NAD-SFC	NoSubs
7	4	30	120	23	-1.2	0.072	-9.000	-9.000	-999.	46.	28.8	0.0780	0.32	1.00	0.50	293.0	15.0	294.5	2.0	0	0.00	66.	1000.	2	NAD-SFC	NoSubs
7	4	30	120	24	-9.8	0.144	-9.000	-9.000	-999.	131.	27.3	0.0780	0.32	1.00	2.10	299.0	15.0	294.1	2.0	0	0.00	65.	1000.	2	NAD-SFC	NoSubs
7	5	1	121	1	-37.3	0.354	-9.000	-9.000	-999.	506.	106.5	0.2930	0.52	1.00	3.60	330.0	15.0	293.4	2.0	0	0.00	66.	1000.	2	NAD-SFC	NoSubs
7	5	1	121	2	-42.9	0.406	-9.000	-9.000	-999.	620.	138.9	0.2930	0.52	1.00	4.10	352.0	15.0	291.9	2.0	0	0.00	75.	1000.	2	NAD-SFC	NoSubs
7	5	1	121	3	-42.0	0.406	-9.000	-9.000	-999.	621.	142.1	0.2930	0.52	1.00	4.10	354.0	15.0	290.8	2.0	0	0.00	78.	1000.	3	NAD-SFC	NoSubs
7	5	1	121	4	-31.4	0.303	-9.000	-9.000	-999.	407.	79.1	0.2930	0.52	1.00	3.10	345.0	15.0	290.0	2.0	0	0.00	78.	1000.	3	NAD-SFC	NoSubs
7	5	1	121	5	-25.5	0.252	-9.000	-9.000	-999.	304.	55.7	0.2930	0.52	1.00	2.60	331.0	15.0	289.5	2.0	0	0.00	77.	1001.	3	NAD-SFC	NoSubs
7	5	1	121	6	-14.4	0.197	-9.000	-9.000	-999.	211.	47.5	0.2720	0.52	0.59	2.10	315.0	15.0	289.2	2.0	0	0.00	77.	1001.	3	NAD-SFC	NoSubs
7	5	1	121	7	25.7	0.190	0.460	0.011	135.	198.	-23.7	0.2720	0.52	0.31	1.50	316.0	15.0	289.2	2.0	0	0.00	75.	1002.	3	NAD-SFC	NoSubs
7	5	1	121	8	72.5	0.215	0.787	0.009	240.	239.	-12.2	0.2930	0.52	0.23	1.50	341.0	15.0	290.6	2.0	0	0.00	63.	1002.	3	NAD-SFC	NoSubs
7	5	1	121	9	113.7	-9.000	-9.000	-9.000	330.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	293.0	2.0	0	0.00	54.	1002.	3	NAD-SFC	NoSubs
7	5	1	121	10	145.8	-9.000	-9.000	-9.000	471.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.8	2.0	0	0.00	48.	1002.	2	NAD-SFC	NoSubs
7	5	1	121	11	168.1	-9.000	-9.000	-9.000	732.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.5	2.0	0	0.00	44.	1001.	2	NAD-SFC	NoSubs
7	5	1	121	12	178.5	-9.000	-9.000	-9.000	1034.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.8	2.0	0	0.00	41.	1001.	3	NAD-SFC	NoSubs
7	5	1	121	13	178.0	0.114	1.792	0.007	1156.	93.	-1.0	0.2160	0.52	0.19	0.50	273.0	15.0	298.9	2.0	0	0.00	37.	1000.	3	NAD-SFC	NoSubs
7	5	1	121	14	166.3	0.121	1.803	0.007	1259.	101.	-1.0	0.2930	0.52	0.19	0.50	352.0	15.0	299.8	2.0	0	0.00	34.	999.	2	NAD-SFC	NoSubs
7	5	1	121	15	143.0	0.232	1.751	0.007	1341.	268.	-7.7	0.2940	0.52	0.19	1.50	12.0	15.0	300.4	2.0	0	0.00	32.	999.	2	NAD-SFC	NoSubs
7	5	1	121	16	109.4	0.329	1.621	0.006	1391.	452.	-28.9	0.2940	0.52	0.20	2.60	10.0	15.0	300.6	2.0	0	0.00	32.	999.	2	NAD-SFC	NoSubs
7	5	1	121	17	66.7	0.361	1.384	0.006	1418.	521.	-62.9	0.2940	0.52	0.24	3.10	6.0	15.0	299.8	2.0	0	0.00	43.	999.	2	NAD-SFC	NoSubs
7	5	1	121	18	19.0	0.383	0.913	0.006	1424.	569.	-263.3	0.2930	0.52	0.34	3.60	351.0	15.0	298.4	2.0	0	0.00	49.	999.	2	NAD-SFC	NoSubs
7	5	1	121	19	-39.8	0.397	-9.000	-9.000	-999.	601.	140.7	0.2720	0.52	0.69	4.10	311.0	15.0	296.8	2.0	0	0.00	53.	1000.	2	NAD-SFC	NoSubs
7	5	1	121	20	-44.1	0.420	-9.000	-9.000	-999.	653.	149.8	0.2160	0.52	1.00	4.60	290.0	15.0	294.0	2.0	0	0.00	59.	1001.	2	NAD-SFC	NoSubs
7	5	1	121	21	-39.4	0.372	-9.000	-9.000	-999.	547.	117.1	0.2160	0.52	1.00	4.10	288.0	15.0	291.9	2.0	0	0.00	62.	1002.	2	NAD-SFC	NoSubs
7	5	1	121	22	-36.9	0.347	-9.000	-9.000	-999.	490.	101.0	0.2720	0.52	1.00	3.60	300.0	15.0	290.6	2.0	0	0.00	65.	1002.	2	NAD-SFC	NoSubs
7	5	1	121	23	-37.0	0.347	-9.000	-9.000	-999.	490.	100.6	0.2720	0.52	1.00	3.60	317.0	15.0	289.6	2.0	0	0.00	68.	1003.	2	NAD-SFC	NoSubs
7	5	1	121	24	-32.4	0.303	-9.000	-9.000	-999.	401.	76.6	0.2930	0.52	1.00	3.10	330.0	15.0	288.9	2.0	0	0.00	70.	1003.	2	NAD-SFC	NoSubs
7	5	2	122	1	-16.6	0.200	-9.000	-9.000	-999.	219.	42.8	0.2930	0.52	1.00	2.10	332.0	15.0	288.6	2.0	0	0.00	70.	1003.	2	NAD-SFC	NoSubs
7	5	2	122	2	-1.6	0.083	-9.000	-9.000	-999.	68.	31.7	0.2720	0.52	1.00	0.50	325.0	15.0	288.4	2.0	0	0.00	70.	1003.	3	NAD-SFC	NoSubs
7	5	2	122	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	288.2	2.0	0	0.00	71.	1003.	3	NAD-SFC	NoSubs
7	5	2	122	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	288.0	2.0	0	0.00	72.	1003.	3	NAD-SFC	NoSubs
7	5	2	122	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	287.8	2.0	0	0.00	73.	1003.	3	NAD-SFC	NoSubs
7	5	2	122	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.58	0.00	0.0	15.0	287.5	2.0	0	0.00	75.	1004.	3	NAD-SFC	NoSubs
7	5	2	122	7	26.1	0.146	0.559	0.007	239.	134.	-10.8	0.2940	0.52	0.31	1.00	23.0	15.0	287.6	2.0	0	0.00	75.	1004.	3	NAD-SFC	NoSubs
7	5	2	122	8	72.7	0.108	0.927	0.007	392.	85.	-1.6	0.2930	0.52	0.23	0.50	356.0	15.0	289.1	2.0	0	0.00	66.	1004.	3	NAD-SFC	NoSubs
7	5	2	122	9	112.4	-9.000	-9.000	-9.000	547.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	290.5	2.0	0	0.00	59.	1004.	4	NAD-SFC	NoSubs
7	5	2	122	10	143.7	-9.000	-9.000	-9.000	692.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	291.9	2.0	0	0.00	55.	1004.	4	NAD-SFC	NoSubs
7	5	2	122	11	159.7	0.118	1.534	0.006	810.	98.	-1.0	0.2720	0.52	0.19	0.50	322.0	15.0	293.4	2.0	0	0.00	51.	1004.	5	NAD-SFC	NoSubs
7	5	2	122	12	175.4	0.184	1.654	0.005	924.	189.	-3.2	0.2930	0.52	0.19	1.00	336.0	15.0	294.8	2.0	0	0.00	47.	1003.	4	NAD-SFC	NoSubs
7	5	2	122	13	174.6	0.338	1.723	0.005	1048.	471.	-19.7	0.2720	0.52	0.19	2.60	326.0	15.0	295.2	2.0	0	0.00	45.	1002.	4	NAD-SFC	NoSubs
7	5	2	122	14	165.0	0.387	1.755	0.005	1172.	579.	-31.5	0.2930	0.52	0.19	3.10	342.0	15.0	295.6	2.0	0	0.00	44.	1001.	3	NAD-SFC	NoSubs
7	5	2	122	15	141.7	0.429	1.713	0.005	1269.	673.	-49.6	0.2930	0.52	0.19	3.60	336.0	15.0	295.9	2.0	0	0.00	41.	1001.	3	NAD-SFC	NoSubs
7	5	2	122	16	108.4	0.458	1.595	0.005	1338.	744.	-79.2	0.2720	0.52	0.20	4.10	320.0	15.0	296.0	2.0	0	0.00	38.	1001.	3	NAD-SFC	NoSubs
7	5	2	122	17	66.3	0.445	1.367	0.005	1376.	713.	-118.9	0.2720	0.52	0.23	4.10	325.0	15.0	295.1	2.0	0	0.00	47.	1001.	3	NAD-SFC	NoSubs
7	5	2	122	18	19.2	0.330	0.907	0.005	1384.	465.	-167.3	0.2720	0.52	0.34	3.10	321.0	15.0	294.0	2.0	0	0.00	56.	1002.	3	NAD-SFC	NoSubs
7	5	2	122	19	-41.5	0.420	-9.000	-9.000	-999.	654.	160.3	0.2160	0.52	0.68	4.60	284.0	15.0	292.1	2.0	0	0.00	58.	1003.	3	NAD-SFC	NoSubs
7	5	2	122	20	-51.9	0.497	-9.000	-9.000	-999.	841.	212.3	0.1750	0.52	1.00	5.70	268.0	15.0	289.2	2.0	0	0.00	63.	1004.	3	NAD-SFC	NoSubs
7	5	2	122	21	-55.2	0.525	-9.000	-9.000	-999.	912.	235.0	0.2160	0.52	1.00	5.70	276.0	15.0	287.4	2.0	0	0.00	69.	1005.	3	NAD-SFC	NoSubs

7	5	2	122	22	-39.3	0.372	-9.000	-9.000	-999.	565.	117.9	0.2160	0.52	1.00	4.10	286.0	15.0	286.4	2.0	0	0.00	73.	1006.	3	NAD-SFC	NoSubs
7	5	2	122	23	-34.5	0.325	-9.000	-9.000	-999.	447.	89.6	0.2160	0.52	1.00	3.60	294.0	15.0	285.6	2.0	0	0.00	76.	1007.	3	NAD-SFC	NoSubs
7	5	2	122	24	-29.6	0.278	-9.000	-9.000	-999.	353.	65.3	0.2160	0.52	1.00	3.10	288.0	15.0	284.8	2.0	0	0.00	77.	1007.	3	NAD-SFC	NoSubs
7	5	3	123	1	-30.4	0.297	-9.000	-9.000	-999.	388.	77.1	0.2720	0.52	1.00	3.10	301.0	15.0	284.2	2.0	0	0.00	78.	1007.	4	NAD-SFC	NoSubs
7	5	3	123	2	-24.6	0.246	-9.000	-9.000	-999.	294.	54.6	0.2720	0.52	1.00	2.60	302.0	15.0	283.6	2.0	0	0.00	80.	1007.	4	NAD-SFC	NoSubs
7	5	3	123	3	-24.0	0.247	-9.000	-9.000	-999.	294.	56.1	0.2720	0.52	1.00	2.60	301.0	15.0	283.0	2.0	0	0.00	83.	1007.	5	NAD-SFC	NoSubs
7	5	3	123	4	-29.2	0.297	-9.000	-9.000	-999.	388.	80.7	0.2720	0.52	1.00	3.10	301.0	15.0	282.5	2.0	0	0.00	86.	1007.	5	NAD-SFC	NoSubs
7	5	3	123	5	-21.7	0.231	-9.000	-9.000	-999.	268.	51.3	0.2160	0.52	1.00	2.60	298.0	15.0	282.1	2.0	0	0.00	88.	1008.	5	NAD-SFC	NoSubs
7	5	3	123	6	-18.7	0.249	-9.000	-9.000	-999.	297.	73.8	0.2720	0.52	0.57	2.60	301.0	15.0	282.0	2.0	0	0.00	90.	1008.	5	NAD-SFC	NoSubs
7	5	3	123	7	26.5	0.522	0.545	0.005	219.	906.	-484.1	0.2720	0.52	0.31	5.10	327.0	15.0	283.5	2.0	0	0.00	80.	1009.	5	NAD-SFC	NoSubs
7	5	3	123	8	72.1	0.455	0.957	0.005	437.	741.	-117.3	0.2930	0.52	0.22	4.10	340.0	15.0	284.9	2.0	0	0.00	71.	1009.	4	NAD-SFC	NoSubs
7	5	3	123	9	111.9	0.375	1.201	0.005	557.	556.	-42.4	0.2930	0.52	0.20	3.10	341.0	15.0	286.4	2.0	0	0.00	61.	1008.	4	NAD-SFC	NoSubs
7	5	3	123	10	143.1	0.290	1.407	0.005	701.	378.	-15.3	0.2930	0.52	0.19	2.10	332.0	15.0	287.8	2.0	0	0.00	54.	1008.	4	NAD-SFC	NoSubs
7	5	3	123	11	164.3	0.294	1.607	0.005	909.	382.	-13.9	0.2930	0.52	0.19	2.10	333.0	15.0	289.2	2.0	0	0.00	46.	1007.	4	NAD-SFC	NoSubs
7	5	3	123	12	176.9	0.344	1.762	0.005	1111.	484.	-20.6	0.2930	0.52	0.19	2.60	330.0	15.0	290.4	2.0	0	0.00	40.	1006.	3	NAD-SFC	NoSubs
7	5	3	123	13	176.3	0.383	1.851	0.005	1291.	569.	-28.6	0.2720	0.52	0.19	3.10	326.0	15.0	291.4	2.0	0	0.00	33.	1005.	2	NAD-SFC	NoSubs
7	5	3	123	14	164.3	0.426	1.888	0.005	1471.	668.	-42.3	0.2720	0.52	0.19	3.60	327.0	15.0	292.2	2.0	0	0.00	29.	1005.	2	NAD-SFC	NoSubs
7	5	3	123	15	140.9	0.520	1.854	0.006	1622.	899.	-89.3	0.2930	0.52	0.19	4.60	344.0	15.0	292.6	2.0	0	0.00	28.	1004.	2	NAD-SFC	NoSubs
7	5	3	123	16	107.2	0.559	1.729	0.007	1728.	1001.	-145.4	0.2930	0.52	0.20	5.10	336.0	15.0	292.6	2.0	0	0.00	29.	1003.	2	NAD-SFC	NoSubs
7	5	3	123	17	65.0	0.546	1.476	0.008	1771.	970.	-224.6	0.2930	0.52	0.23	5.10	348.0	15.0	292.2	2.0	0	0.00	35.	1003.	2	NAD-SFC	NoSubs
7	5	3	123	18	17.6	0.382	0.956	0.008	1775.	591.	-284.1	0.2940	0.52	0.34	3.60	1.0	15.0	291.2	2.0	0	0.00	49.	1003.	2	NAD-SFC	NoSubs
7	5	3	123	19	-35.1	0.355	-9.000	-9.000	-999.	508.	113.9	0.2930	0.52	0.67	3.60	346.0	15.0	289.8	2.0	0	0.00	54.	1004.	3	NAD-SFC	NoSubs
7	5	3	123	20	-37.1	0.354	-9.000	-9.000	-999.	506.	107.5	0.2930	0.52	1.00	3.60	336.0	15.0	288.5	2.0	0	0.00	57.	1004.	3	NAD-SFC	NoSubs
7	5	3	123	21	-34.2	0.325	-9.000	-9.000	-999.	446.	90.2	0.2160	0.52	1.00	3.60	298.0	15.0	287.2	2.0	0	0.00	61.	1004.	3	NAD-SFC	NoSubs
7	5	3	123	22	-44.4	0.420	-9.000	-9.000	-999.	653.	149.4	0.2160	0.52	1.00	4.60	281.0	15.0	285.8	2.0	0	0.00	71.	1005.	3	NAD-SFC	NoSubs
7	5	3	123	23	-44.6	0.420	-9.000	-9.000	-999.	653.	148.8	0.2160	0.52	1.00	4.60	286.0	15.0	284.6	2.0	0	0.00	77.	1005.	3	NAD-SFC	NoSubs
7	5	3	123	24	-34.6	0.325	-9.000	-9.000	-999.	451.	89.0	0.2160	0.52	1.00	3.60	276.0	15.0	283.8	2.0	0	0.00	79.	1005.	3	NAD-SFC	NoSubs
7	5	4	124	1	-22.1	0.231	-9.000	-9.000	-999.	271.	50.0	0.2160	0.52	1.00	2.60	277.0	15.0	283.4	2.0	0	0.00	81.	1005.	4	NAD-SFC	NoSubs
7	5	4	124	2	-14.1	0.183	-9.000	-9.000	-999.	189.	38.9	0.2160	0.52	1.00	2.10	280.0	15.0	283.2	2.0	0	0.00	80.	1005.	4	NAD-SFC	NoSubs
7	5	4	124	3	-6.5	0.122	-9.000	-9.000	-999.	103.	25.1	0.1750	0.52	1.00	1.50	267.0	15.0	282.9	2.0	0	0.00	81.	1004.	4	NAD-SFC	NoSubs
7	5	4	124	4	-7.1	0.129	-9.000	-9.000	-999.	111.	26.9	0.2160	0.52	1.00	1.50	274.0	15.0	282.6	2.0	0	0.00	83.	1004.	4	NAD-SFC	NoSubs
7	5	4	124	5	-3.5	0.096	-9.000	-9.000	-999.	71.	22.4	0.2160	0.52	1.00	1.00	282.0	15.0	282.2	2.0	0	0.00	85.	1004.	4	NAD-SFC	NoSubs
7	5	4	124	6	-1.1	0.069	-9.000	-9.000	-999.	44.	27.8	0.2160	0.52	0.57	0.50	297.0	15.0	282.1	2.0	0	0.00	87.	1005.	5	NAD-SFC	NoSubs
7	5	4	124	7	23.4	0.191	0.464	0.005	152.	201.	-26.8	0.2930	0.52	0.30	1.50	336.0	15.0	284.0	2.0	0	0.00	77.	1005.	7	NAD-SFC	NoSubs
7	5	4	124	8	70.9	0.164	1.005	0.005	513.	160.	-5.6	0.2930	0.52	0.22	1.00	339.0	15.0	285.1	2.0	0	0.00	71.	1005.	5	NAD-SFC	NoSubs
7	5	4	124	9	102.2	0.219	1.265	0.005	711.	247.	-9.3	0.2720	0.52	0.20	1.50	329.0	15.0	285.4	2.0	0	0.00	69.	1005.	6	NAD-SFC	NoSubs
7	5	4	124	10	116.6	0.284	1.408	0.006	859.	363.	-17.6	0.2930	0.52	0.19	2.10	334.0	15.0	286.1	2.0	0	0.00	66.	1005.	7	NAD-SFC	NoSubs
7	5	4	124	11	39.4	0.303	0.999	0.006	905.	399.	-63.0	0.2930	0.52	0.19	2.60	354.0	15.0	287.4	2.0	0	0.00	61.	1005.	10	NAD-SFC	NoSubs
7	5	4	124	12	42.1	0.350	1.039	0.007	952.	497.	-91.0	0.2930	0.52	0.19	3.10	336.0	15.0	288.2	2.0	0	0.00	59.	1004.	10	NAD-SFC	NoSubs
7	5	4	124	13	41.9	0.482	1.050	0.007	988.	803.	-239.2	0.2720	0.52	0.19	4.60	328.0	15.0	288.4	2.0	0	0.00	60.	1004.	10	NAD-SFC	NoSubs
7	5	4	124	14	38.9	0.489	1.032	0.007	1013.	821.	-269.6	0.2930	0.52	0.19	4.60	335.0	15.0	288.5	2.0	0	0.00	62.	1004.	10	NAD-SFC	NoSubs
7	5	4	124	15	33.0	0.535	0.984	0.007	1034.	937.	-414.4	0.2930	0.52	0.19	5.10	331.0	15.0	288.8	2.0	0	0.00	61.	1004.	10	NAD-SFC	NoSubs
7	5	4	124	16	72.2	0.363	1.296	0.007	1080.	550.	-59.2	0.2930	0.52	0.20	3.10	332.0	15.0	289.1	2.0	0	0.00	62.	1003.	8	NAD-SFC	NoSubs
7	5	4	124	17	65.6	0.406	1.271	0.007	1120.	621.	-91.4	0.2930	0.52	0.23	3.60	351.0	15.0	289.9	2.0	0	0.00	53.	1003.	4	NAD-SFC	NoSubs
7	5	4	124	18	19.2	0.141	0.847	0.007	1132.	223.	-13.1	0.2940	0.52	0.34	1.00	8.0	15.0	290.2	2.0	0	0.00	55.	1003.	3	NAD-SFC	NoSubs
7	5	4	124	19	-13.3	0.179	-9.000	-9.000	-999.	182.	38.6	0.1970	0.52	0.66	2.10	138.0	15.0	289.4	2.0	0	0.00	58.	1003.	3	NAD-SFC	NoSubs
7	5	4	124	20	-33.3	0.318	-9.000	-9.000	-999.	429.	86.0	0.1970	0.52	1.00	3.60	130.0	15.0	287.6	2.0	0	0.00	67.	1003.	3	NAD-SFC	NoSubs
7	5	4	124	21	-43.2	0.410	-9.000	-9.000	-999.	630.	142.6	0.1970	0.52	1.00	4.60	127.0	15.0	286.1	2.0	0	0.00	76.	1003.	3	NAD-SFC	NoSubs
7	5	4	124	22	-39.5	0.363	-9.000	-9.000	-999.	527.	108.9	0.1970	0.52	1.00	4.10	131.0	15.0	285.2	2.0	0	0.00	81.	1004.	2	NAD-SFC	NoSubs
7	5	4	124	23	-34.5	0.317	-9.000	-9.000	-999.	430.	82.8	0.1970	0.52	1.00	3.60	128.0	15.0	284.6	2.0	0	0.00	83.	1004.	2	NAD-SFC	NoSubs
7	5	4	124	24	-21.8	0.225	-9.000	-9.000	-999.	260.	46.6	0.1970	0.52	1.00	2.60	138.0	15.0	284.1	2.0	0	0.00	83.	1004.	2	NAD-SFC	NoSubs
7	5	5	125	1	-6.8	0.124	-9.000	-9.000	-999.	109.	24.8	0.1810	0.52	1.00	1.50	157.0	15.0	283.8	2.0	0	0.00	81.	1004.	2	NAD-SFC	NoSubs
7	5	5	125	2	-3.5	0.094	-9.000	-9.000	-999.	70.	21.7	0.1750	0.52	1.00	1.00	252.0	15.0	283.2	2.0	0	0.00	79.	1004.	2	NAD-SFC	NoSubs
7	5	5	125	3	-14.5	0.183	-9.000	-9.000	-999.	187.	37.5	0.2160	0.52	1.00	2.10	285.0	15.0	283.1	2.0	0	0.00	77.	1004.	2	NAD-SFC	NoSubs
7	5	5	125	4	-22.7	0.230	-9.000	-9.000	-999.	265.	48.1	0.2160	0.52	1.00	2.60	281.0	15.0	282.8	2.0	0	0.00	75.	1004.	2	NAD-SFC	NoSubs
7	5	5	125	5	-30.5	0.278	-9.000	-9.000	-999.	351.	63.0	0.2160	0.52	1.00	3.10	278.0	15.0	282.4	2.0	0	0.00	73.	1005.	2	NAD-SFC	NoSubs
7	5	5	125	6	-19.9	0.232	-9.000	-9.000	-999.	269.	56.5	0.2160	0.52	0.56	2.60	284.0	15.0	282.0	2.0	0	0.00	72.	1005.	2	NAD-SFC	NoSubs
7	5	5	125	7	26.2	0.435	0.404	0.005	90.	689.	-281.8	0.2930	0.52	0.30	4.10	343.0	15.0	284.0	2.0	0	0.00	61.	1005.	2	NAD-SFC	NoSubs
7	5	5	125	8	73.2	0.455	0.862	0.005	314.	737.	-115.5	0.2930	0.52	0.22	4.10	354.0	15.0	286.1	2.0	0	0.00	50.	1005.	2	NAD-SFC	NoSubs
7	5	5	125	9	114.1	0.422	1.163	0.005	495.	658.	-58.9	0.2930	0.52	0.20	3.60	353.0	15.0	287.8	2.0	0	0.00	43.	1005.	2	NAD-SFC	NoSubs
7	5	5	125	10	146.2	0.383	1.405	0.005	680.	571.	-34.5	0.2930	0.52	0.19	3.10	349.0	15.0	289.5	2.0	0	0.00	38.	1005.	2	NAD-SFC	NoSubs
7	5	5	125	11	168.1	0.434	1.644	0.005	949.	687.	-43.7	0.2930	0.52	0.19	3.60	353.0	15.0	291.0	2.0	0	0.00	33.	1004.	2	NAD-SFC	NoSubs
7	5	5	125	12	178.4	0.482	1.797	0.005	1167.	803.	-56.2	0.2930	0.52	0.19	4.10	350.0	15.0	292.1	2.0	0	0.00	32.	1003.	2	NAD-SFC	NoSubs
7	5	5	125	13	177.6	0.528	1.882	0.006	1345.	919.	-73.9	0.2930	0.52	0.19	4.60	343.0	15.0	292.9	2.0	0	0.00	31.	1002.	2	NAD-SFC	NoSubs
7	5	5	125	14	165.6	0.525	1.879	0.006	1434.	914.	-78.2	0.2930	0.52	0.19	4.60	341.0	15.0	293.6	2.0	0	0.00	30.	1002.	2	NAD-SFC	NoSubs
7	5	5	125	15	142.3	0.520	1.817	0.006	1508.	901.	-88.4	0.2930	0.52	0.19	4.60	345.0	15.0	294.4	2.0	0	0.00	29.	1001.	2	NAD-SFC	NoSubs
7	5	5	125	16	108.8	0.559	1.682	0.006	1562.	1002.	-143.3	0.2930	0.52	0.20	5.10	344.0	15.0	294.6	2.0	0	0.00	28.	1000.	2	NAD-SFC	NoSubs
7	5	5	125	17	66.7	0.453	1.439	0.006	1593.	742.	-124.3	0.2930	0.52	0.23	4.10	340.0	15.0	294.4	2.0	0	0.00	34.	1000.	2	NAD-SFC	NoSubs
7	5	5	125	18	19.5	0.289	0.956	0.006	1600.	396.	-110.9	0.2930	0.52	0.33	2.60	337.0	15.0	293.8	2.0	0	0.00	41.	1001.	2	NAD-SFC	NoSubs
7	5	5	125	19	-16.0	0.200	-9.000	-9.000	-999.	220.	44.9	0.2930	0.52	0.65	2.10	353.0	15.0	293.1	2.0	0	0.00	40.	1002.	2	NAD-SFC	NoSubs
7	5	5	125	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	292.2	2.0	0	0.00	40.	1002.	2	NAD-SFC	NoSubs
7	5	5	125	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	291.8	2.0	0	0.00	38.	1003.	2	NAD-SFC	NoSubs
7	5	5	125	22	-13.1	0.173	-9.000	-9.000	-999.	173.	35.3	0.1750	0.52	1.00	2.10	252.0	15.0	290.6	2.0	0	0.00	39.	1003.	2	NAD-SFC	NoSubs
7	5	5	125	23	-13.2	0.173	-9.000	-9.000	-999.	173.	35.1	0.1750	0.52	1.00	2.10	254.0	15.0	288.5	2.0	0	0.00	45.	1004.	2	NAD-SFC	NoSubs
7	5	5	125	24	-1.5	0.081	-9.000	-9.000	-999.	59.	31.4	0.1970	0.52	1.00	0.50	128.0	15.0	286.8	2.0	0	0.00	53.	1004.	2	NAD-SFC	NoSubs
7	5	6	126	1	-6.7	0.123	-9.000	-9.000	-999.	103.	24.6	0.1750	0.52	1.00	1.50	255.0	15.0	285.9	2.0	0	0.00	57.	1005.	2	NAD-SFC	NoSubs
7	5	6	126	2	-35.4	0.325	-9.000	-9.000	-999.	445.	87.0	0.2160	0.52	1.00	3.60	282.0	15.0	285.0	2.0	0	0.00	63.	1005.	2	NAD-SFC	NoSubs

7	5	6	126	3	-30.3	0.278	-9.000	-9.000	-999.	352.	63.4	0.2160	0.52	1.00	3.10	297.0	15.0	284.4	2.0	0	0.00	65.	1005.	2	NAD-SFC	NoSubs
7	5	6	126	4	-32.4	0.296	-9.000	-9.000	-999.	387.	72.0	0.2720	0.52	1.00	3.10	303.0	15.0	283.9	2.0	0	0.00	62.	1006.	2	NAD-SFC	NoSubs
7	5	6	126	5	-30.4	0.278	-9.000	-9.000	-999.	351.	63.2	0.2160	0.52	1.00	3.10	290.0	15.0	283.2	2.0	0	0.00	60.	1006.	2	NAD-SFC	NoSubs
7	5	6	126	6	-19.3	0.232	-9.000	-9.000	-999.	270.	58.3	0.2160	0.52	0.55	2.60	278.0	15.0	282.9	2.0	0	0.00	58.	1007.	2	NAD-SFC	NoSubs
7	5	6	126	7	27.2	0.336	0.383	0.006	74.	467.	-125.0	0.2720	0.52	0.30	3.10	322.0	15.0	285.2	2.0	0	0.00	49.	1007.	2	NAD-SFC	NoSubs
7	5	6	126	8	74.2	0.162	0.718	0.009	179.	182.	-5.2	0.2720	0.52	0.22	1.00	315.0	15.0	287.8	2.0	0	0.00	40.	1007.	2	NAD-SFC	NoSubs
7	5	6	126	9	115.2	0.156	1.020	0.007	331.	148.	-3.0	0.1750	0.52	0.20	1.00	267.0	15.0	290.1	2.0	0	0.00	34.	1007.	2	NAD-SFC	NoSubs
7	5	6	126	10	147.4	0.111	1.292	0.006	525.	89.	-1.0	0.2160	0.52	0.19	0.50	272.0	15.0	291.9	2.0	0	0.00	31.	1007.	2	NAD-SFC	NoSubs
7	5	6	126	11	169.3	-9.000	-9.000	-9.000	719.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	293.5	2.0	0	0.00	29.	1006.	2	NAD-SFC	NoSubs
7	5	6	126	12	179.7	0.114	1.643	0.005	887.	93.	-1.0	0.2160	0.52	0.19	0.50	279.0	15.0	294.9	2.0	0	0.00	26.	1005.	2	NAD-SFC	NoSubs
7	5	6	126	13	179.1	-9.000	-9.000	-9.000	1079.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.1	2.0	0	0.00	25.	1005.	2	NAD-SFC	NoSubs
7	5	6	126	14	167.2	0.119	1.818	0.005	1290.	99.	-1.0	0.2720	0.52	0.19	0.50	320.0	15.0	297.0	2.0	0	0.00	24.	1004.	2	NAD-SFC	NoSubs
7	5	6	126	15	143.9	0.119	1.786	0.005	1421.	98.	-1.0	0.2930	0.52	0.19	0.50	348.0	15.0	297.6	2.0	0	0.00	24.	1004.	2	NAD-SFC	NoSubs
7	5	6	126	16	110.5	0.174	1.668	0.005	1507.	174.	-4.3	0.2940	0.52	0.20	1.00	13.0	15.0	298.0	2.0	0	0.00	24.	1004.	2	NAD-SFC	NoSubs
7	5	6	126	17	68.7	0.164	1.440	0.005	1558.	159.	-5.7	0.2940	0.52	0.23	1.00	22.0	15.0	298.1	2.0	0	0.00	24.	1003.	2	NAD-SFC	NoSubs
7	5	6	126	18	21.6	0.183	0.981	0.005	1571.	188.	-25.4	0.2470	0.52	0.33	1.50	31.0	15.0	297.8	2.0	0	0.00	30.	1004.	2	NAD-SFC	NoSubs
7	5	6	126	19	-14.6	0.191	-9.000	-9.000	-999.	200.	42.7	0.2470	0.52	0.65	2.10	34.0	15.0	296.8	2.0	0	0.00	33.	1004.	2	NAD-SFC	NoSubs
7	5	6	126	20	-7.6	0.133	-9.000	-9.000	-999.	117.	27.9	0.2470	0.52	1.00	1.50	33.0	15.0	295.2	2.0	0	0.00	38.	1004.	2	NAD-SFC	NoSubs
7	5	6	126	21	-1.5	0.080	-9.000	-9.000	-999.	55.	31.3	0.2090	0.52	1.00	0.50	68.0	15.0	293.6	2.0	0	0.00	44.	1004.	2	NAD-SFC	NoSubs
7	5	6	126	22	-3.5	0.095	-9.000	-9.000	-999.	71.	22.1	0.1970	0.52	1.00	1.00	141.0	15.0	291.8	2.0	0	0.00	51.	1005.	2	NAD-SFC	NoSubs
7	5	6	126	23	-7.0	0.126	-9.000	-9.000	-999.	107.	25.7	0.1970	0.52	1.00	1.50	141.0	15.0	290.5	2.0	0	0.00	55.	1005.	2	NAD-SFC	NoSubs
7	5	6	126	24	-13.8	0.178	-9.000	-9.000	-999.	181.	36.7	0.1970	0.52	1.00	2.10	128.0	15.0	289.8	2.0	0	0.00	56.	1005.	2	NAD-SFC	NoSubs
7	5	7	127	1	-29.1	0.271	-9.000	-9.000	-999.	339.	61.5	0.1970	0.52	1.00	3.10	134.0	15.0	289.1	2.0	0	0.00	54.	1006.	2	NAD-SFC	NoSubs
7	5	7	127	2	-20.9	0.220	-9.000	-9.000	-999.	248.	45.7	0.1810	0.52	1.00	2.60	158.0	15.0	288.9	2.0	0	0.00	51.	1006.	2	NAD-SFC	NoSubs
7	5	7	127	3	-13.7	0.177	-9.000	-9.000	-999.	179.	36.2	0.1900	0.52	1.00	2.10	202.0	15.0	288.4	2.0	0	0.00	51.	1006.	2	NAD-SFC	NoSubs
7	5	7	127	4	-6.7	0.123	-9.000	-9.000	-999.	104.	24.7	0.1750	0.52	1.00	1.50	251.0	15.0	287.9	2.0	0	0.00	52.	1006.	2	NAD-SFC	NoSubs
7	5	7	127	5	-7.3	0.129	-9.000	-9.000	-999.	111.	26.3	0.2160	0.52	1.00	1.50	293.0	15.0	287.2	2.0	0	0.00	54.	1006.	2	NAD-SFC	NoSubs
7	5	7	127	6	-3.3	0.096	-9.000	-9.000	-999.	72.	24.5	0.2930	0.52	0.55	1.00	337.0	15.0	286.5	2.0	0	0.00	57.	1007.	2	NAD-SFC	NoSubs
7	5	7	127	7	28.4	0.092	0.365	0.010	61.	67.	-2.4	0.2470	0.52	0.30	0.50	35.0	15.0	287.8	2.0	0	0.00	58.	1007.	2	NAD-SFC	NoSubs
7	5	7	127	8	75.9	-9.000	-9.000	-9.000	200.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	291.8	2.0	0	0.00	43.	1007.	2	NAD-SFC	NoSubs
7	5	7	127	9	117.2	-9.000	-9.000	-9.000	434.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	294.6	2.0	0	0.00	33.	1006.	2	NAD-SFC	NoSubs
7	5	7	127	10	149.6	-9.000	-9.000	-9.000	648.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.0	2.0	0	0.00	26.	1006.	2	NAD-SFC	NoSubs
7	5	7	127	11	171.6	-9.000	-9.000	-9.000	852.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.8	2.0	0	0.00	23.	1005.	2	NAD-SFC	NoSubs
7	5	7	127	12	182.2	0.114	1.745	0.005	1045.	92.	-1.0	0.2090	0.52	0.19	0.50	86.0	15.0	300.2	2.0	0	0.00	21.	1004.	2	NAD-SFC	NoSubs
7	5	7	127	13	181.6	-9.000	-9.000	-9.000	1240.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.2	2.0	0	0.00	20.	1003.	2	NAD-SFC	NoSubs
7	5	7	127	14	169.8	0.119	1.886	0.005	1417.	99.	-1.0	0.2720	0.52	0.19	0.50	304.0	15.0	302.1	2.0	0	0.00	20.	1003.	2	NAD-SFC	NoSubs
7	5	7	127	15	146.5	0.111	1.862	0.005	1577.	89.	-1.0	0.2160	0.52	0.19	0.50	299.0	15.0	302.6	2.0	0	0.00	19.	1002.	2	NAD-SFC	NoSubs
7	5	7	127	16	113.2	0.115	1.749	0.005	1691.	93.	-1.2	0.2930	0.52	0.20	0.50	346.0	15.0	302.9	2.0	0	0.00	20.	1001.	2	NAD-SFC	NoSubs
7	5	7	127	17	71.2	0.206	1.518	0.005	1756.	225.	-11.0	0.2470	0.52	0.23	1.50	38.0	15.0	302.6	2.0	0	0.00	22.	1001.	2	NAD-SFC	NoSubs
7	5	7	127	18	23.8	0.327	1.057	0.005	1776.	448.	-130.7	0.2470	0.52	0.33	3.10	49.0	15.0	301.5	2.0	0	0.00	31.	1001.	2	NAD-SFC	NoSubs
7	5	7	127	19	-40.6	0.437	-9.000	-9.000	-999.	692.	183.0	0.2470	0.52	0.64	4.60	56.0	15.0	299.2	2.0	0	0.00	38.	1002.	2	NAD-SFC	NoSubs
7	5	7	127	20	-43.3	0.416	-9.000	-9.000	-999.	645.	148.9	0.2090	0.52	1.00	4.60	69.0	15.0	297.1	2.0	0	0.00	41.	1002.	2	NAD-SFC	NoSubs
7	5	7	127	21	-13.7	0.179	-9.000	-9.000	-999.	244.	37.2	0.1970	0.52	1.00	2.10	141.0	15.0	295.9	2.0	0	0.00	42.	1002.	2	NAD-SFC	NoSubs
7	5	7	127	22	-43.1	0.409	-9.000	-9.000	-999.	627.	141.9	0.1950	0.52	1.00	4.60	238.0	15.0	293.8	2.0	0	0.00	49.	1003.	2	NAD-SFC	NoSubs
7	5	7	127	23	-14.3	0.183	-9.000	-9.000	-999.	242.	38.3	0.2160	0.52	1.00	2.10	276.0	15.0	293.1	2.0	0	0.00	49.	1003.	2	NAD-SFC	NoSubs
7	5	7	127	24	-3.8	0.099	-9.000	-9.000	-999.	83.	22.9	0.2470	0.52	1.00	1.00	43.0	15.0	292.2	2.0	0	0.00	51.	1003.	2	NAD-SFC	NoSubs
7	5	8	128	1	-3.5	0.095	-9.000	-9.000	-999.	71.	22.1	0.1970	0.52	1.00	1.00	133.0	15.0	291.6	2.0	0	0.00	51.	1003.	2	NAD-SFC	NoSubs
7	5	8	128	2	-3.4	0.094	-9.000	-9.000	-999.	69.	21.8	0.1810	0.52	1.00	1.00	178.0	15.0	291.2	2.0	0	0.00	50.	1003.	2	NAD-SFC	NoSubs
7	5	8	128	3	-1.5	0.080	-9.000	-9.000	-999.	54.	31.2	0.1950	0.52	1.00	0.50	217.0	15.0	290.5	2.0	0	0.00	52.	1003.	2	NAD-SFC	NoSubs
7	5	8	128	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	289.8	2.0	0	0.00	54.	1003.	2	NAD-SFC	NoSubs
7	5	8	128	5	-1.6	0.083	-9.000	-9.000	-999.	57.	31.8	0.2470	0.52	1.00	0.50	37.0	15.0	288.9	2.0	0	0.00	57.	1004.	2	NAD-SFC	NoSubs
7	5	8	128	6	-3.2	0.096	-9.000	-9.000	-999.	71.	24.7	0.2930	0.52	0.54	1.00	356.0	15.0	288.2	2.0	0	0.00	60.	1004.	2	NAD-SFC	NoSubs
7	5	8	128	7	29.5	0.139	0.379	0.008	66.	124.	-8.1	0.2160	0.52	0.30	1.00	299.0	15.0	289.6	2.0	0	0.00	56.	1004.	2	NAD-SFC	NoSubs
7	5	8	128	8	76.8	0.202	0.750	0.006	197.	218.	-9.6	0.2160	0.52	0.22	1.50	296.0	15.0	292.9	2.0	0	0.00	46.	1004.	2	NAD-SFC	NoSubs
7	5	8	128	9	117.9	0.172	1.086	0.005	389.	172.	-3.9	0.2720	0.52	0.20	1.00	300.0	15.0	295.2	2.0	0	0.00	42.	1004.	2	NAD-SFC	NoSubs
7	5	8	128	10	150.5	0.117	1.394	0.005	645.	97.	-1.0	0.2720	0.52	0.19	0.50	314.0	15.0	298.0	2.0	0	0.00	31.	1003.	2	NAD-SFC	NoSubs
7	5	8	128	11	172.5	-9.000	-9.000	-9.000	905.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.9	2.0	0	0.00	27.	1003.	2	NAD-SFC	NoSubs
7	5	8	128	12	183.1	-9.000	-9.000	-9.000	1121.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.4	2.0	0	0.00	24.	1002.	2	NAD-SFC	NoSubs
7	5	8	128	13	182.6	-9.000	-9.000	-9.000	1303.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.8	2.0	0	0.00	22.	1001.	2	NAD-SFC	NoSubs
7	5	8	128	14	170.9	0.109	1.929	0.005	1501.	86.	-1.0	0.1750	0.52	0.19	0.50	269.0	15.0	303.6	2.0	0	0.00	20.	1000.	2	NAD-SFC	NoSubs
7	5	8	128	15	147.7	0.177	1.902	0.005	1663.	179.	-3.4	0.2720	0.52	0.19	1.00	326.0	15.0	304.1	2.0	0	0.00	19.	999.	2	NAD-SFC	NoSubs
7	5	8	128	16	114.3	0.284	1.786	0.005	1779.	363.	-17.8	0.2930	0.52	0.20	2.10	346.0	15.0	304.1	2.0	0	0.00	20.	999.	2	NAD-SFC	NoSubs
7	5	8	128	17	71.9	-9.000	-9.000	-9.000	1855.	-999.	-99999.0	0.2235	0.52	0.23	0.00	0.0	15.0	303.0	2.0	0	0.00	31.	998.	2	NAD-SFC	NoSubs
7	5	8	128	18	24.6	0.340	1.089	0.005	1875.	476.	-142.8	0.2940	0.52	0.33	3.10	12.0	15.0	302.0	2.0	0	0.00	36.	999.	2	NAD-SFC	NoSubs
7	5	8	128	19	-22.9	0.253	-9.000	-9.000	-999.	309.	63.0	0.2940	0.52	0.63	2.60	6.0	15.0	300.6	2.0	0	0.00	40.	999.	2	NAD-SFC	NoSubs
7	5	8	128	20	-27.1	0.263	-9.000	-9.000	-999.	324.	60.0	0.1750	0.52	1.00	3.10	269.0	15.0	299.1	2.0	0	0.00	44.	999.	2	NAD-SFC	NoSubs
7	5	8	128	21	-48.9	0.468	-9.000	-9.000	-999.	767.	186.3	0.2160	0.52	1.00	5.10	275.0	15.0	294.9	2.0	0	0.00	55.	1000.	2	NAD-SFC	NoSubs
7	5	8	128	22	-39.2	0.372	-9.000	-9.000	-999.	552.	117.5	0.2160	0.52	1.00	4.10	272.0	15.0	292.9	2.0	0	0.00	57.	1000.	2	NAD-SFC	NoSubs
7	5	8	128	23	-34.4	0.325	-9.000	-9.000	-999.	447.	89.3	0.2160	0.52	1.00	3.60	271.0	15.0	292.0	2.0	0	0.00	58.	1000.	2	NAD-SFC	NoSubs
7	5	8	128	24	-34.4	0.325	-9.000	-9.000	-999.	445.	89.0	0.2160	0.52	1.00	3.60	272.0	15.0	291.2	2.0	0	0.00	59.	1000.	2	NAD-SFC	NoSubs
7	5	9	129	1	-1.6	0.083	-9.000	-9.000	-999.	158.	31.9	0.2720	0.52	1.00	0.50	322.0	15.0	291.1	2.0	0	0.00	58.	1001.	2	NAD-SFC	NoSubs
7	5	9	129	2	-3.6	0.096	-9.000	-9.000	-999.	73.	22.3	0.2090	0.52	1.00	1.00	75.0	15.0	290.9	2.0	0	0.00	58.	1002.	2	NAD-SFC	NoSubs
7	5	9	129	3	-1.6	0.083	-9.000	-9.000	-999.	58.	31.9	0.2720	0.52	1.00	0.50	303.0	15.0	290.5	2.0	0	0.00	59.	1002.	2	NAD-SFC	NoSubs
7	5	9	129	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	289.6	2.0	0	0.00	64.	1002.	2	NAD-SFC	NoSubs
7	5	9	129	5	-1.5	0.080	-9.000	-9.000	-999.	54.	31.2	0.1900	0.52	1.00	0.50	199.0	15.0	288.8	2.0	0	0.00	68.	1002.	2	NAD-SFC	NoSubs
7	5	9	129	6	14.4	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.53	0.00	0.0	15.0	288.1	2.0	0	0.00	71.	1003.	2	NAD-SFC	NoSubs
7	5	9	129	7	30.2	-9.000	-9.000	-9.000	168.	-999.	-99999.0	0.2235	0.52	0.30	0.00	0.0	15.0	289.9	2.0	0	0.00	65.	1003.	2	NAD-SFC	NoSubs

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 7  5  9 129  8   77.2 -9.000 -9.000 -9.000  292. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 292.2  2.0   0  0.00  59. 1003.   2 NAD-SFC NoSubs
 7  5  9 129  9  118.2 -9.000 -9.000 -9.000  419. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 294.8  2.0   0  0.00  50. 1002.   2 NAD-SFC NoSubs
 7  5  9 129 10  150.4 -9.000 -9.000 -9.000  547. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 296.8  2.0   0  0.00  44. 1002.   2 NAD-SFC NoSubs
 7  5  9 129 11  172.4 -9.000 -9.000 -9.000  666. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 298.8  2.0   0  0.00  40. 1002.   2 NAD-SFC NoSubs
 7  5  9 129 12  183.1 -9.000 -9.000 -9.000  787. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 300.6  2.0   0  0.00  35. 1001.   2 NAD-SFC NoSubs
 7  5  9 129 13  182.7  0.123  1.659  0.006  893.  103.     -1.0 0.2930  0.52  0.19  0.50 333.0  15.0 302.1  2.0   0  0.00  31. 1000.   2 NAD-SFC NoSubs
 7  5  9 129 14  171.0  0.122  1.679  0.006  987.  102.     -1.0 0.2930  0.52  0.19  0.50 346.0  15.0 303.2  2.0   0  0.00  28.  999.   2 NAD-SFC NoSubs
 7  5  9 129 15  148.0 -9.000 -9.000 -9.000 1094. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 304.0  2.0   0  0.00  25.  999.   2 NAD-SFC NoSubs
 7  5  9 129 16  114.8  0.226  1.557  0.006 1171.  258.     -8.9 0.2940  0.52  0.20  1.50  10.0  15.0 304.4  2.0   0  0.00  24.  998.   2 NAD-SFC NoSubs
 7  5  9 129 17   72.9  0.211  1.355  0.005 1215.  233.    -11.5 0.2720  0.52  0.23  1.50 318.0  15.0 304.0  2.0   0  0.00  29.  998.   2 NAD-SFC NoSubs
 7  5  9 129 18   24.4  0.494  0.942  0.005 1218.  835.   -441.3 0.2160  0.52  0.33  5.10 274.0  15.0 300.5  2.0   0  0.00  43.  999.   2 NAD-SFC NoSubs
 7  5  9 129 19  -41.0  0.444 -9.000 -9.000 -999.  713.    190.5 0.1750  0.52  0.63  5.10 268.0  15.0 296.1  2.0   0  0.00  49. 1000.   2 NAD-SFC NoSubs
 7  5  9 129 20  -41.8  0.398 -9.000 -9.000 -999.  604.    134.3 0.1750  0.52  1.00  4.60 267.0  15.0 293.5  2.0   0  0.00  56. 1001.   2 NAD-SFC NoSubs
 7  5  9 129 21  -34.5  0.325 -9.000 -9.000 -999.  448.     89.2 0.2160  0.52  1.00  3.60 273.0  15.0 291.8  2.0   0  0.00  61. 1002.   2 NAD-SFC NoSubs
 7  5  9 129 22   -7.2  0.129 -9.000 -9.000 -999.  154.     26.5 0.2160  0.52  1.00  1.50 280.0  15.0 291.2  2.0   0  0.00  60. 1002.   2 NAD-SFC NoSubs
 7  5  9 129 23  -23.8  0.239 -9.000 -9.000 -999.  281.     51.5 0.2470  0.52  1.00  2.60  59.0  15.0 290.9  2.0   0  0.00  61. 1004.   2 NAD-SFC NoSubs
 7  5  9 129 24   -7.7  0.133 -9.000 -9.000 -999.  122.     27.7 0.2470  0.52  1.00  1.50  43.0  15.0 290.4  2.0   0  0.00  62. 1004.   2 NAD-SFC NoSubs
 7  5 10 130  1   -7.3  0.129 -9.000 -9.000 -999.  111.     26.4 0.2160  0.52  1.00  1.50 271.0  15.0 289.6  2.0   0  0.00  63. 1005.   2 NAD-SFC NoSubs
 7  5 10 130  2  -33.1  0.308 -9.000 -9.000 -999.  410.     79.0 0.1750  0.52  1.00  3.60 265.0  15.0 288.2  2.0   0  0.00  68. 1005.   2 NAD-SFC NoSubs
 7  5 10 130  3  -28.4  0.263 -9.000 -9.000 -999.  325.     57.4 0.1750  0.52  1.00  3.10 266.0  15.0 286.8  2.0   0  0.00  74. 1005.   2 NAD-SFC NoSubs
 7  5 10 130  4  -14.5  0.183 -9.000 -9.000 -999.  190.     37.8 0.2160  0.52  1.00  2.10 278.0  15.0 286.2  2.0   0  0.00  75. 1005.   2 NAD-SFC NoSubs
 7  5 10 130  5   -7.3  0.129 -9.000 -9.000 -999.  112.     26.3 0.2160  0.52  1.00  1.50 286.0  15.0 286.1  2.0   0  0.00  75. 1005.   2 NAD-SFC NoSubs
 7  5 10 130  6   -1.1  0.069 -9.000 -9.000 -999.   45.     27.8 0.2160  0.52  0.53  0.50 296.0  15.0 285.8  2.0   0  0.00  77. 1006.   2 NAD-SFC NoSubs
 7  5 10 130  7   30.3  0.096  0.496  0.007  144.   71.     -2.6 0.2930  0.52  0.29  0.50 360.0  15.0 287.6  2.0   0  0.00  72. 1006.   2 NAD-SFC NoSubs
 7  5 10 130  8   76.9 -9.000 -9.000 -9.000  328. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 289.4  2.0   0  0.00  68. 1006.   2 NAD-SFC NoSubs
 7  5 10 130  9  117.5 -9.000 -9.000 -9.000  502. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 291.1  2.0   0  0.00  63. 1005.   2 NAD-SFC NoSubs
 7  5 10 130 10  149.5 -9.000 -9.000 -9.000  660. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 293.2  2.0   0  0.00  55. 1005.   2 NAD-SFC NoSubs
 7  5 10 130 11  171.3 -9.000 -9.000 -9.000  751. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 295.0  2.0   0  0.00  48. 1004.   2 NAD-SFC NoSubs
 7  5 10 130 12  181.9  0.120  1.620  0.011  837.  100.     -1.0 0.2720  0.52  0.19  0.50 320.0  15.0 296.9  2.0   0  0.00  42. 1003.   2 NAD-SFC NoSubs
 7  5 10 130 13  181.4  0.182  1.667  0.010  916.  186.     -3.0 0.2720  0.52  0.19  1.00 328.0  15.0 298.5  2.0   0  0.00  35. 1003.   2 NAD-SFC NoSubs
 7  5 10 130 14  169.6  0.233  1.671  0.010  984.  269.     -6.6 0.2720  0.52  0.19  1.50 328.0  15.0 299.5  2.0   0  0.00  32. 1002.   2 NAD-SFC NoSubs
 7  5 10 130 15  146.5  0.290  1.621  0.009 1041.  376.    -14.9 0.2930  0.52  0.19  2.10 342.0  15.0 300.1  2.0   0  0.00  31. 1002.   2 NAD-SFC NoSubs
 7  5 10 130 16  113.4  0.376  1.508  0.009 1083.  553.    -41.8 0.2930  0.52  0.20  3.10 337.0  15.0 300.6  2.0   0  0.00  29. 1002.   2 NAD-SFC NoSubs
 7  5 10 130 17   71.6  0.363  1.304  0.008 1108.  524.    -59.5 0.2930  0.52  0.23  3.10 347.0  15.0 300.2  2.0   0  0.00  36. 1002.   2 NAD-SFC NoSubs
 7  5 10 130 18   24.5  0.340  0.914  0.008 1115.  477.   -143.7 0.2940  0.52  0.32  3.10  15.0  15.0 299.4  2.0   0  0.00  43. 1002.   2 NAD-SFC NoSubs
 7  5 10 130 19  -27.3  0.304 -9.000 -9.000 -999.  403.     92.3 0.2930  0.52  0.62  3.10 346.0  15.0 298.5  2.0   0  0.00  45. 1002.   2 NAD-SFC NoSubs
 7  5 10 130 20  -43.9  0.420 -9.000 -9.000 -999.  653.    150.8 0.2160  0.52  1.00  4.60 282.0  15.0 295.9  2.0   0  0.00  50. 1003.   2 NAD-SFC NoSubs
 7  5 10 130 21  -44.5  0.420 -9.000 -9.000 -999.  653.    148.6 0.2160  0.52  1.00  4.60 273.0  15.0 291.8  2.0   0  0.00  65. 1003.   2 NAD-SFC NoSubs
 7  5 10 130 22  -42.4  0.398 -9.000 -9.000 -999.  603.    132.7 0.1750  0.52  1.00  4.60 268.0  15.0 290.2  2.0   0  0.00  71. 1004.   2 NAD-SFC NoSubs
 7  5 10 130 23  -39.9  0.372 -9.000 -9.000 -999.  546.    115.9 0.2160  0.52  1.00  4.10 273.0  15.0 289.2  2.0   0  0.00  74. 1004.   2 NAD-SFC NoSubs
 7  5 10 130 24  -22.5  0.230 -9.000 -9.000 -999.  279.     48.7 0.2160  0.52  1.00  2.60 295.0  15.0 288.5  2.0   0  0.00  77. 1004.   2 NAD-SFC NoSubs
 7  5 11 131  1   -8.0  0.137 -9.000 -9.000 -999.  126.     28.6 0.2720  0.52  1.00  1.50 317.0  15.0 288.1  2.0   0  0.00  78. 1004.   2 NAD-SFC NoSubs
 7  5 11 131  2   -8.1  0.137 -9.000 -9.000 -999.  122.     28.5 0.2720  0.52  1.00  1.50 327.0  15.0 287.8  2.0   0  0.00  79. 1005.   2 NAD-SFC NoSubs
 7  5 11 131  3   -4.0  0.101 -9.000 -9.000 -999.   77.     23.3 0.2720  0.52  1.00  1.00 306.0  15.0 287.2  2.0   0  0.00  79. 1005.   2 NAD-SFC NoSubs
 7  5 11 131  4   -1.6  0.084 -9.000 -9.000 -999.   58.     32.0 0.2720  0.52  1.00  0.50 315.0  15.0 286.9  2.0   0  0.00  79. 1005.   2 NAD-SFC NoSubs
 7  5 11 131  5   -1.7  0.085 -9.000 -9.000 -999.   59.     32.2 0.2930  0.52  1.00  0.50 342.0  15.0 286.5  2.0   0  0.00  80. 1005.   2 NAD-SFC NoSubs
 7  5 11 131  6   -1.1  0.071 -9.000 -9.000 -999.   45.     28.2 0.2930  0.52  0.52  0.50 348.0  15.0 286.2  2.0   0  0.00  82. 1006.   2 NAD-SFC NoSubs
 7  5 11 131  7   30.9  0.196  0.547  0.010  190.  209.    -22.0 0.2930  0.52  0.29  1.50 337.0  15.0 287.8  2.0   0  0.00  74. 1006.   2 NAD-SFC NoSubs
 7  5 11 131  8   77.5 -9.000 -9.000 -9.000  311. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 289.5  2.0   0  0.00  66. 1006.   2 NAD-SFC NoSubs
 7  5 11 131  9  118.0 -9.000 -9.000 -9.000  435. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 291.2  2.0   0  0.00  60. 1006.   2 NAD-SFC NoSubs
 7  5 11 131 10  149.9 -9.000 -9.000 -9.000  564. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 293.0  2.0   0  0.00  55. 1005.   2 NAD-SFC NoSubs
 7  5 11 131 11  171.6 -9.000 -9.000 -9.000  685. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 294.8  2.0   0  0.00  51. 1005.   2 NAD-SFC NoSubs
 7  5 11 131 12  182.0  0.123  1.597  0.010  803.  103.     -1.0 0.2930  0.52  0.19  0.50 333.0  15.0 296.5  2.0   0  0.00  47. 1004.   2 NAD-SFC NoSubs
 7  5 11 131 13  181.6  0.122  1.662  0.010  907.  103.     -1.0 0.2930  0.52  0.19  0.50 333.0  15.0 298.1  2.0   0  0.00  40. 1003.   2 NAD-SFC NoSubs
 7  5 11 131 14  169.8  0.183  1.676  0.010  992.  188.     -3.2 0.2930  0.52  0.19  1.00 337.0  15.0 299.2  2.0   0  0.00  37. 1002.   2 NAD-SFC NoSubs
 7  5 11 131 15  146.8  0.232  1.630  0.010 1057.  268.     -7.6 0.2930  0.52  0.19  1.50 345.0  15.0 299.9  2.0   0  0.00  35. 1002.   2 NAD-SFC NoSubs
 7  5 11 131 16  113.6  0.283  1.519  0.010 1104.  362.    -17.9 0.2930  0.52  0.20  2.10 352.0  15.0 300.2  2.0   0  0.00  34. 1002.   2 NAD-SFC NoSubs
 7  5 11 131 17   72.1  0.317  1.316  0.010 1132.  428.    -39.5 0.2930  0.52  0.23  2.60 346.0  15.0 300.2  2.0   0  0.00  34. 1002.   2 NAD-SFC NoSubs
 7  5 11 131 18   25.1  0.289  0.928  0.010 1141.  373.    -85.8 0.2720  0.52  0.32  2.60 322.0  15.0 299.5  2.0   0  0.00  42. 1002.   2 NAD-SFC NoSubs
 7  5 11 131 19  -42.1  0.469 -9.000 -9.000 -999.  771.    219.2 0.2160  0.52  0.61  5.10 285.0  15.0 296.4  2.0   0  0.00  48. 1003.   2 NAD-SFC NoSubs
 7  5 11 131 20  -55.5  0.525 -9.000 -9.000 -999.  912.    232.9 0.2160  0.52  1.00  5.70 284.0  15.0 292.4  2.0   0  0.00  56. 1003.   2 NAD-SFC NoSubs
 7  5 11 131 21  -53.1  0.497 -9.000 -9.000 -999.  843.    207.4 0.1750  0.52  1.00  5.70 266.0  15.0 290.2  2.0   0  0.00  62. 1004.   2 NAD-SFC NoSubs
 7  5 11 131 22  -48.8  0.468 -9.000 -9.000 -999.  769.    187.4 0.2160  0.52  1.00  5.10 284.0  15.0 288.9  2.0   0  0.00  67. 1004.   3 NAD-SFC NoSubs
 7  5 11 131 23  -34.1  0.325 -9.000 -9.000 -999.  461.     90.4 0.2160  0.52  1.00  3.60 292.0  15.0 287.9  2.0   0  0.00  71. 1005.   3 NAD-SFC NoSubs
 7  5 11 131 24  -22.3  0.231 -9.000 -9.000 -999.  271.     49.3 0.2160  0.52  1.00  2.60 298.0  15.0 287.4  2.0   0  0.00  74. 1005.   3 NAD-SFC NoSubs
 7  5 12 132  1  -15.9  0.195 -9.000 -9.000 -999.  208.     42.0 0.2720  0.52  1.00  2.10 306.0  15.0 287.0  2.0   0  0.00  74. 1006.   3 NAD-SFC NoSubs
 7  5 12 132  2  -14.3  0.183 -9.000 -9.000 -999.  188.     38.4 0.2160  0.52  1.00  2.10 289.0  15.0 286.6  2.0   0  0.00  75. 1006.   3 NAD-SFC NoSubs
 7  5 12 132  3  -14.3  0.183 -9.000 -9.000 -999.  188.     38.3 0.2160  0.52  1.00  2.10 272.0  15.0 286.2  2.0   0  0.00  74. 1006.   3 NAD-SFC NoSubs
 7  5 12 132  4  -13.1  0.173 -9.000 -9.000 -999.  173.     35.5 0.1750  0.52  1.00  2.10 262.0  15.0 285.9  2.0   0  0.00  73. 1006.   3 NAD-SFC NoSubs
 7  5 12 132  5   -6.6  0.122 -9.000 -9.000 -999.  103.     24.8 0.1750  0.52  1.00  1.50 259.0  15.0 285.5  2.0   0  0.00  73. 1006.   3 NAD-SFC NoSubs
 7  5 12 132  6   -0.9  0.066 -9.000 -9.000 -999.   41.     26.7 0.2160  0.52  0.52  0.50 276.0  15.0 285.2  2.0   0  0.00  75. 1007.   3 NAD-SFC NoSubs
 7  5 12 132  7   32.4  0.150  0.589  0.007  226.  139.     -9.3 0.2930  0.52  0.29  1.00 349.0  15.0 287.0  2.0   0  0.00  72. 1007.   3 NAD-SFC NoSubs
 7  5 12 132  8   78.3  0.109  0.987  0.009  441.   87.     -1.5 0.2930  0.52  0.22  0.50 348.0  15.0 288.0  2.0   0  0.00  70. 1007.   3 NAD-SFC NoSubs
 7  5 12 132  9  118.2  0.115  1.226  0.009  560.   94.     -1.2 0.2930  0.52  0.20  0.50 330.0  15.0 289.4  2.0   0  0.00  64. 1007.   3 NAD-SFC NoSubs
 7  5 12 132 10  149.7  0.119  1.414  0.010  678.   99.     -1.0 0.2930  0.52  0.19  0.50 335.0  15.0 291.1  2.0   0  0.00  59. 1006.   3 NAD-SFC NoSubs
 7  5 12 132 11  171.2  0.180  1.549  0.010  779.  184.     -3.1 0.2720  0.52  0.19  1.00 322.0  15.0 292.8  2.0   0  0.00  53. 1006.   2 NAD-SFC NoSubs
 7  5 12 132 12  181.5  0.185  1.641  0.010  875.  190.     -3.1 0.2930  0.52  0.19  1.00 332.0  15.0 294.1  2.0   0  0.00  49. 1005.   2 NAD-SFC NoSubs
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7	5	12	132	13	180.8	0.238	1.692	0.010	961.	279.	-6.7	0.2930	0.52	0.19	1.50	335.0	15.0	295.2	2.0	0	0.00	46.	1004.	2	NAD-SFC	NoSubs
7	5	12	132	14	168.9	0.295	1.697	0.010	1038.	384.	-13.6	0.2930	0.52	0.19	2.10	346.0	15.0	296.1	2.0	0	0.00	43.	1004.	2	NAD-SFC	NoSubs
7	5	12	132	15	145.8	0.337	1.649	0.011	1102.	470.	-23.6	0.2930	0.52	0.19	2.60	354.0	15.0	296.8	2.0	0	0.00	40.	1003.	2	NAD-SFC	NoSubs
7	5	12	132	16	112.6	0.422	1.533	0.011	1147.	657.	-59.5	0.2940	0.52	0.20	3.60	5.0	15.0	296.8	2.0	0	0.00	40.	1003.	2	NAD-SFC	NoSubs
7	5	12	132	17	70.9	0.502	1.325	0.011	1174.	852.	-159.4	0.2940	0.52	0.23	4.60	3.0	15.0	296.2	2.0	0	0.00	42.	1003.	2	NAD-SFC	NoSubs
7	5	12	132	18	23.8	0.386	0.923	0.011	1181.	587.	-216.4	0.2930	0.52	0.32	3.60	357.0	15.0	295.1	2.0	0	0.00	55.	1003.	2	NAD-SFC	NoSubs
7	5	12	132	19	-35.4	0.407	-9.000	-9.000	-999.	624.	171.0	0.2930	0.52	0.61	4.10	355.0	15.0	293.0	2.0	0	0.00	62.	1004.	3	NAD-SFC	NoSubs
7	5	12	132	20	-42.1	0.406	-9.000	-9.000	-999.	621.	142.3	0.2930	0.52	1.00	4.10	352.0	15.0	291.2	2.0	0	0.00	69.	1004.	3	NAD-SFC	NoSubs
7	5	12	132	21	-36.9	0.354	-9.000	-9.000	-999.	508.	108.1	0.2930	0.52	1.00	3.60	339.0	15.0	290.0	2.0	0	0.00	74.	1004.	3	NAD-SFC	NoSubs
7	5	12	132	22	-31.6	0.303	-9.000	-9.000	-999.	402.	78.9	0.2930	0.52	1.00	3.10	342.0	15.0	289.4	2.0	0	0.00	76.	1005.	3	NAD-SFC	NoSubs
7	5	12	132	23	-24.7	0.246	-9.000	-9.000	-999.	294.	54.0	0.2720	0.52	1.00	2.60	324.0	15.0	289.0	2.0	0	0.00	77.	1005.	3	NAD-SFC	NoSubs
7	5	12	132	24	-24.8	0.246	-9.000	-9.000	-999.	293.	54.0	0.2720	0.52	1.00	2.60	307.0	15.0	288.2	2.0	0	0.00	79.	1005.	3	NAD-SFC	NoSubs
7	5	13	133	1	-24.8	0.246	-9.000	-9.000	-999.	293.	53.9	0.2720	0.52	1.00	2.60	318.0	15.0	287.6	2.0	0	0.00	80.	1005.	3	NAD-SFC	NoSubs
7	5	13	133	2	-15.9	0.195	-9.000	-9.000	-999.	208.	42.0	0.2720	0.52	1.00	2.10	323.0	15.0	287.0	2.0	0	0.00	79.	1006.	3	NAD-SFC	NoSubs
7	5	13	133	3	-8.0	0.137	-9.000	-9.000	-999.	122.	28.8	0.2720	0.52	1.00	1.50	310.0	15.0	286.5	2.0	0	0.00	78.	1006.	3	NAD-SFC	NoSubs
7	5	13	133	4	-1.6	0.083	-9.000	-9.000	-999.	58.	31.8	0.2720	0.52	1.00	0.50	316.0	15.0	286.0	2.0	0	0.00	78.	1006.	3	NAD-SFC	NoSubs
7	5	13	133	5	-1.7	0.084	-9.000	-9.000	-999.	58.	32.0	0.2940	0.52	1.00	0.50	28.0	15.0	285.6	2.0	0	0.00	79.	1007.	3	NAD-SFC	NoSubs
7	5	13	133	6	15.6	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.51	0.00	0.0	15.0	285.2	2.0	0	0.00	81.	1007.	3	NAD-SFC	NoSubs
7	5	13	133	7	32.9	-9.000	-9.000	-9.000	294.	-999.	-99999.0	0.2235	0.52	0.29	0.00	0.0	15.0	286.8	2.0	0	0.00	74.	1007.	3	NAD-SFC	NoSubs
7	5	13	133	8	78.8	-9.000	-9.000	-9.000	452.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	288.2	2.0	0	0.00	67.	1007.	3	NAD-SFC	NoSubs
7	5	13	133	9	118.4	-9.000	-9.000	-9.000	609.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	289.8	2.0	0	0.00	62.	1006.	2	NAD-SFC	NoSubs
7	5	13	133	10	150.1	-9.000	-9.000	-9.000	792.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	291.4	2.0	0	0.00	56.	1006.	2	NAD-SFC	NoSubs
7	5	13	133	11	171.6	-9.000	-9.000	-9.000	972.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	292.9	2.0	0	0.00	52.	1005.	2	NAD-SFC	NoSubs
7	5	13	133	12	181.8	0.114	1.749	0.011	1055.	93.	-1.0	0.2160	0.52	0.19	0.50	296.0	15.0	294.2	2.0	0	0.00	48.	1004.	2	NAD-SFC	NoSubs
7	5	13	133	13	181.2	0.182	1.789	0.012	1132.	186.	-3.0	0.2720	0.52	0.19	1.00	324.0	15.0	295.6	2.0	0	0.00	44.	1003.	2	NAD-SFC	NoSubs
7	5	13	133	14	169.5	0.237	1.785	0.012	1201.	276.	-7.0	0.2930	0.52	0.19	1.50	339.0	15.0	296.8	2.0	0	0.00	40.	1002.	2	NAD-SFC	NoSubs
7	5	13	133	15	146.5	0.338	1.726	0.013	1257.	471.	-23.5	0.2930	0.52	0.19	2.60	355.0	15.0	297.4	2.0	0	0.00	37.	1002.	2	NAD-SFC	NoSubs
7	5	13	133	16	113.4	0.421	1.602	0.013	1298.	656.	-59.0	0.2930	0.52	0.20	3.60	352.0	15.0	297.6	2.0	0	0.00	36.	1002.	2	NAD-SFC	NoSubs
7	5	13	133	17	71.8	0.409	1.386	0.013	1323.	628.	-84.9	0.2940	0.52	0.23	3.60	2.0	15.0	297.4	2.0	0	0.00	38.	1001.	2	NAD-SFC	NoSubs
7	5	13	133	18	25.0	0.294	0.976	0.013	1330.	391.	-90.7	0.2940	0.52	0.32	2.60	2.0	15.0	296.8	2.0	0	0.00	48.	1002.	2	NAD-SFC	NoSubs
7	5	13	133	19	-22.1	0.253	-9.000	-9.000	-999.	306.	65.7	0.2930	0.52	0.60	2.60	338.0	15.0	296.1	2.0	0	0.00	48.	1002.	2	NAD-SFC	NoSubs
7	5	13	133	20	-7.9	0.137	-9.000	-9.000	-999.	129.	28.9	0.2720	0.52	1.00	1.50	321.0	15.0	295.0	2.0	0	0.00	51.	1002.	2	NAD-SFC	NoSubs
7	5	13	133	21	-3.6	0.097	-9.000	-9.000	-999.	72.	22.4	0.2160	0.52	1.00	1.00	279.0	15.0	293.8	2.0	0	0.00	54.	1002.	2	NAD-SFC	NoSubs
7	5	13	133	22	-3.4	0.093	-9.000	-9.000	-999.	69.	21.7	0.1750	0.52	1.00	1.00	242.0	15.0	292.4	2.0	0	0.00	59.	1003.	2	NAD-SFC	NoSubs
7	5	13	133	23	-6.5	0.122	-9.000	-9.000	-999.	103.	25.0	0.1750	0.52	1.00	1.50	267.0	15.0	291.0	2.0	0	0.00	63.	1003.	3	NAD-SFC	NoSubs
7	5	13	133	24	-7.9	0.137	-9.000	-9.000	-999.	121.	29.0	0.2720	0.52	1.00	1.50	307.0	15.0	289.9	2.0	0	0.00	66.	1003.	3	NAD-SFC	NoSubs
7	5	14	134	1	-3.9	0.100	-9.000	-9.000	-999.	76.	23.3	0.2720	0.52	1.00	1.00	318.0	15.0	289.2	2.0	0	0.00	67.	1003.	3	NAD-SFC	NoSubs
7	5	14	134	2	-1.6	0.083	-9.000	-9.000	-999.	58.	31.8	0.2930	0.52	1.00	0.50	335.0	15.0	288.8	2.0	0	0.00	68.	1004.	3	NAD-SFC	NoSubs
7	5	14	134	3	-1.6	0.083	-9.000	-9.000	-999.	57.	31.7	0.2720	0.52	1.00	0.50	324.0	15.0	288.2	2.0	0	0.00	68.	1004.	3	NAD-SFC	NoSubs
7	5	14	134	4	-1.6	0.084	-9.000	-9.000	-999.	58.	32.0	0.2720	0.52	1.00	0.50	318.0	15.0	287.8	2.0	0	0.00	70.	1004.	2	NAD-SFC	NoSubs
7	5	14	134	5	-1.7	0.085	-9.000	-9.000	-999.	59.	32.2	0.2930	0.52	1.00	0.50	341.0	15.0	287.2	2.0	0	0.00	72.	1004.	2	NAD-SFC	NoSubs
7	5	14	134	6	-1.0	0.068	-9.000	-9.000	-999.	43.	27.3	0.2930	0.52	0.51	0.50	340.0	15.0	287.0	2.0	0	0.00	73.	1005.	2	NAD-SFC	NoSubs
7	5	14	134	7	32.8	0.097	0.573	0.008	205.	73.	-2.5	0.2930	0.52	0.29	0.50	352.0	15.0	288.6	2.0	0	0.00	65.	1005.	2	NAD-SFC	NoSubs
7	5	14	134	8	79.2	-9.000	-9.000	-9.000	309.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	290.4	2.0	0	0.00	57.	1005.	2	NAD-SFC	NoSubs
7	5	14	134	9	119.5	-9.000	-9.000	-9.000	450.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	292.0	2.0	0	0.00	51.	1004.	2	NAD-SFC	NoSubs
7	5	14	134	10	151.2	-9.000	-9.000	-9.000	641.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	293.8	2.0	0	0.00	45.	1004.	2	NAD-SFC	NoSubs
7	5	14	134	11	172.7	-9.000	-9.000	-9.000	818.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.2	2.0	0	0.00	41.	1003.	2	NAD-SFC	NoSubs
7	5	14	134	12	183.1	-9.000	-9.000	-9.000	973.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.0	2.0	0	0.00	37.	1002.	2	NAD-SFC	NoSubs
7	5	14	134	13	182.6	0.121	1.763	0.009	1074.	100.	-1.0	0.2720	0.52	0.19	0.50	322.0	15.0	298.5	2.0	0	0.00	34.	1001.	2	NAD-SFC	NoSubs
7	5	14	134	14	171.0	0.237	1.771	0.010	1161.	277.	-6.9	0.2930	0.52	0.19	1.50	340.0	15.0	299.6	2.0	0	0.00	31.	1000.	2	NAD-SFC	NoSubs
7	5	14	134	15	148.0	0.291	1.721	0.010	1231.	376.	-14.8	0.2930	0.52	0.19	2.10	351.0	15.0	300.2	2.0	0	0.00	30.	1000.	2	NAD-SFC	NoSubs
7	5	14	134	16	115.0	0.330	1.605	0.010	1283.	455.	-27.9	0.2940	0.52	0.20	2.60	1.0	15.0	300.5	2.0	0	0.00	30.	999.	2	NAD-SFC	NoSubs
7	5	14	134	17	73.5	0.318	1.394	0.010	1314.	430.	-39.0	0.2940	0.52	0.23	2.60	14.0	15.0	300.2	2.0	0	0.00	33.	999.	2	NAD-SFC	NoSubs
7	5	14	134	18	26.8	0.194	0.999	0.010	1324.	214.	-24.3	0.2940	0.52	0.32	1.50	13.0	15.0	299.9	2.0	0	0.00	40.	1000.	2	NAD-SFC	NoSubs
7	5	14	134	19	-3.4	0.097	-9.000	-9.000	-999.	78.	24.2	0.2930	0.52	0.60	1.00	348.0	15.0	298.9	2.0	0	0.00	43.	1000.	2	NAD-SFC	NoSubs
7	5	14	134	20	-1.5	0.080	-9.000	-9.000	-999.	55.	31.2	0.2160	0.52	1.00	0.50	275.0	15.0	297.2	2.0	0	0.00	48.	1000.	2	NAD-SFC	NoSubs
7	5	14	134	21	-13.0	0.173	-9.000	-9.000	-999.	173.	35.6	0.1750	0.52	1.00	2.10	260.0	15.0	295.6	2.0	0	0.00	53.	1001.	2	NAD-SFC	NoSubs
7	5	14	134	22	-39.3	0.372	-9.000	-9.000	-999.	546.	117.4	0.2160	0.52	1.00	4.10	275.0	15.0	292.8	2.0	0	0.00	63.	1002.	2	NAD-SFC	NoSubs
7	5	14	134	23	-27.9	0.263	-9.000	-9.000	-999.	331.	58.4	0.1750	0.52	1.00	3.10	263.0	15.0	291.4	2.0	0	0.00	68.	1002.	2	NAD-SFC	NoSubs
7	5	14	134	24	-13.1	0.173	-9.000	-9.000	-999.	176.	35.3	0.1750	0.52	1.00	2.10	264.0	15.0	290.9	2.0	0	0.00	68.	1002.	2	NAD-SFC	NoSubs
7	5	15	135	1	-7.2	0.129	-9.000	-9.000	-999.	111.	26.5	0.2160	0.52	1.00	1.50	290.0	15.0	290.5	2.0	0	0.00	69.	1003.	2	NAD-SFC	NoSubs
7	5	15	135	2	-16.0	0.195	-9.000	-9.000	-999.	207.	41.6	0.2720	0.52	1.00	2.10	311.0	15.0	289.9	2.0	0	0.00	72.	1003.	2	NAD-SFC	NoSubs
7	5	15	135	3	-16.0	0.195	-9.000	-9.000	-999.	207.	41.6	0.2720	0.52	1.00	2.10	325.0	15.0	289.2	2.0	0	0.00	76.	1003.	2	NAD-SFC	NoSubs
7	5	15	135	4	-8.0	0.137	-9.000	-9.000	-999.	122.	28.6	0.2720	0.52	1.00	1.50	321.0	15.0	288.4	2.0	0	0.00	80.	1004.	2	NAD-SFC	NoSubs
7	5	15	135	5	-8.3	0.140	-9.000	-9.000	-999.	125.	29.3	0.2930	0.52	1.00	1.50	330.0	15.0	287.8	2.0	0	0.00	83.	1004.	2	NAD-SFC	NoSubs
7	5	15	135	6	-2.8	0.094	-9.000	-9.000	-999.	69.	26.5	0.2930	0.52	0.50	1.00	352.0	15.0	287.5	2.0	0	0.00	85.	1005.	2	NAD-SFC	NoSubs
7	5	15	135	7	33.4	0.253	0.520	0.009	151.	306.	-43.7	0.2930	0.52	0.29	2.10	351.0	15.0	289.0	2.0	0	0.00	74.	1005.	2	NAD-SFC	NoSubs
7	5	15	135	8	79.7	0.109	0.834	0.010	261.	104.	-1.5	0.2930	0.52	0.22	0.50	335.0	15.0	290.8	2.0	0	0.00	66.	1005.	2	NAD-SFC	NoSubs
7	5	15	135	9	120.1	0.113	1.070	0.008	365.	92.	-1.1	0.2720	0.52	0.20	0.50	301.0	15.0	292.8	2.0	0	0.00	58.	1004.	2	NAD-SFC	NoSubs
7	5	15	135	10	151.9	-9.000	-9.000	-9.000	505.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.8	2.0	0	0.00	52.	1004.	2	NAD-SFC	NoSubs
7	5	15	135	11	173.8	-9.000	-9.000	-9.000	641.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.1	2.0	0	0.00	42.	1003.	2	NAD-SFC	NoSubs
7	5	15	135	12	184.2	-9.000	-9.000	-9.000	840.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.9	2.0	0	0.00	36.	1002.	2	NAD-SFC	NoSubs
7	5	15	135	13	183.8	-9.000	-9.000	-9.000	990.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.4	2.0	0	0.00	31.	1001.	2	NAD-SFC	NoSubs
7	5	15	135	14	172.1	0.184	1.719	0.010	1056.	189.	-3.2	0.2940	0.52	0.19	1.00	2.0	15.0	301.4	2.0	0	0.00	29.	1001.	2	NAD-SFC	NoSubs
7	5	15	135	15	149.0	0.233	1.667	0.009	1109.	270.	-7.5	0.2940	0.52	0.19	1.50	12.0	15.0	301.8	2.0	0	0.00	30.	1000.	2	NAD-SFC	NoSubs
7	5	15	135	16	116.2	0.377	1.552	0.009	1150.	555.	-41.1	0.2940	0.52	0.20	3.10	23.0	15.0	302.2	2.0	0	0.00	30.	1000.	2	NAD-SFC	NoSubs
7	5	15	135	17	74.6	0.364	1.349	0.009	1174.	527.	-57.7	0.2940	0.52	0.23	3.10	18.0	15.0	301.6	2.0	0	0.00	38.	1000.	2	NAD-SFC	NoSubs

7	5	15	135	18	27.8	0.296	0.973	0.009	1182.	389.	-83.0	0.2940	0.52	0.31	2.60	9.0	15.0	300.9	2.0	0	0.00	44.	1000.	2	NAD-SFC	NoSubs
7	5	15	135	19	-19.9	0.248	-9.000	-9.000	-999.	298.	68.4	0.2720	0.52	0.59	2.60	315.0	15.0	300.2	2.0	0	0.00	44.	1001.	2	NAD-SFC	NoSubs
7	5	15	135	20	-51.9	0.497	-9.000	-9.000	-999.	842.	211.6	0.1750	0.52	1.00	5.70	257.0	15.0	295.9	2.0	0	0.00	60.	1001.	2	NAD-SFC	NoSubs
7	5	15	135	21	-55.4	0.525	-9.000	-9.000	-999.	912.	233.3	0.2160	0.52	1.00	5.70	273.0	15.0	292.9	2.0	0	0.00	68.	1002.	2	NAD-SFC	NoSubs
7	5	15	135	22	-42.1	0.398	-9.000	-9.000	-999.	615.	133.4	0.1750	0.52	1.00	4.60	269.0	15.0	291.8	2.0	0	0.00	71.	1002.	2	NAD-SFC	NoSubs
7	5	15	135	23	-32.7	0.308	-9.000	-9.000	-999.	416.	79.8	0.1750	0.52	1.00	3.60	266.0	15.0	291.0	2.0	0	0.00	75.	1003.	2	NAD-SFC	NoSubs
7	5	15	135	24	-7.2	0.129	-9.000	-9.000	-999.	144.	26.5	0.2160	0.52	1.00	1.50	292.0	15.0	290.8	2.0	0	0.00	75.	1003.	2	NAD-SFC	NoSubs
7	5	16	136	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	290.5	2.0	0	0.00	75.	1003.	2	NAD-SFC	NoSubs
7	5	16	136	2	-1.6	0.082	-9.000	-9.000	-999.	57.	31.7	0.2470	0.52	1.00	0.50	54.0	15.0	290.2	2.0	0	0.00	76.	1004.	2	NAD-SFC	NoSubs
7	5	16	136	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	289.8	2.0	0	0.00	76.	1004.	2	NAD-SFC	NoSubs
7	5	16	136	4	-1.6	0.084	-9.000	-9.000	-999.	58.	32.0	0.2720	0.52	1.00	0.50	327.0	15.0	289.2	2.0	0	0.00	78.	1004.	2	NAD-SFC	NoSubs
7	5	16	136	5	-1.7	0.084	-9.000	-9.000	-999.	59.	32.1	0.2930	0.52	1.00	0.50	351.0	15.0	288.8	2.0	0	0.00	80.	1005.	2	NAD-SFC	NoSubs
7	5	16	136	6	-1.0	0.066	-9.000	-9.000	-999.	41.	26.7	0.2940	0.52	0.50	0.50	28.0	15.0	288.4	2.0	0	0.00	82.	1005.	2	NAD-SFC	NoSubs
7	5	16	136	7	34.0	0.199	0.635	0.008	269.	212.	-20.6	0.2940	0.52	0.29	1.50	6.0	15.0	289.5	2.0	0	0.00	73.	1005.	2	NAD-SFC	NoSubs
7	5	16	136	8	80.1	0.108	0.997	0.009	443.	88.	-1.4	0.2720	0.52	0.22	0.50	327.0	15.0	290.8	2.0	0	0.00	68.	1005.	2	NAD-SFC	NoSubs
7	5	16	136	9	120.3	-9.000	-9.000	-9.000	558.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	292.2	2.0	0	0.00	63.	1004.	2	NAD-SFC	NoSubs
7	5	16	136	10	151.9	-9.000	-9.000	-9.000	676.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.0	2.0	0	0.00	57.	1004.	2	NAD-SFC	NoSubs
7	5	16	136	11	173.5	-9.000	-9.000	-9.000	785.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.8	2.0	0	0.00	53.	1003.	2	NAD-SFC	NoSubs
7	5	16	136	12	183.8	0.123	1.658	0.011	888.	103.	-1.0	0.2930	0.52	0.19	0.50	334.0	15.0	297.4	2.0	0	0.00	48.	1002.	2	NAD-SFC	NoSubs
7	5	16	136	13	183.4	0.235	1.712	0.011	979.	273.	-6.3	0.2720	0.52	0.19	1.50	329.0	15.0	298.9	2.0	0	0.00	44.	1001.	2	NAD-SFC	NoSubs
7	5	16	136	14	171.7	0.295	1.714	0.011	1048.	385.	-13.4	0.2930	0.52	0.19	2.10	336.0	15.0	299.9	2.0	0	0.00	41.	1000.	2	NAD-SFC	NoSubs
7	5	16	136	15	148.8	0.338	1.663	0.011	1103.	472.	-23.2	0.2930	0.52	0.19	2.60	347.0	15.0	300.5	2.0	0	0.00	40.	1000.	2	NAD-SFC	NoSubs
7	5	16	136	16	115.8	0.422	1.548	0.011	1144.	658.	-57.9	0.2930	0.52	0.20	3.60	358.0	15.0	300.6	2.0	0	0.00	41.	1000.	2	NAD-SFC	NoSubs
7	5	16	136	17	74.5	0.410	1.347	0.010	1170.	630.	-82.3	0.2940	0.52	0.23	3.60	2.0	15.0	300.4	2.0	0	0.00	44.	1000.	2	NAD-SFC	NoSubs
7	5	16	136	18	27.9	0.296	0.973	0.010	1178.	394.	-82.6	0.2930	0.52	0.31	2.60	347.0	15.0	299.9	2.0	0	0.00	52.	1000.	2	NAD-SFC	NoSubs
7	5	16	136	19	-28.4	0.356	-9.000	-9.000	-999.	510.	141.9	0.2930	0.52	0.58	3.60	347.0	15.0	298.9	2.0	0	0.00	55.	1000.	2	NAD-SFC	NoSubs
7	5	16	136	20	-41.2	0.406	-9.000	-9.000	-999.	621.	145.1	0.2930	0.52	1.00	4.10	339.0	15.0	296.8	2.0	0	0.00	63.	1001.	3	NAD-SFC	NoSubs
7	5	16	136	21	-41.4	0.406	-9.000	-9.000	-999.	621.	144.3	0.2930	0.52	1.00	4.10	336.0	15.0	295.0	2.0	0	0.00	69.	1001.	3	NAD-SFC	NoSubs
7	5	16	136	22	-41.6	0.406	-9.000	-9.000	-999.	621.	143.6	0.2930	0.52	1.00	4.10	345.0	15.0	293.8	2.0	0	0.00	73.	1001.	3	NAD-SFC	NoSubs
7	5	16	136	23	-41.8	0.406	-9.000	-9.000	-999.	621.	143.0	0.2930	0.52	1.00	4.10	335.0	15.0	292.5	2.0	0	0.00	77.	1002.	3	NAD-SFC	NoSubs
7	5	16	136	24	-36.7	0.355	-9.000	-9.000	-999.	508.	108.6	0.2930	0.52	1.00	3.60	331.0	15.0	291.2	2.0	0	0.00	78.	1002.	3	NAD-SFC	NoSubs
7	5	17	137	1	-31.5	0.303	-9.000	-9.000	-999.	402.	79.2	0.2930	0.52	1.00	3.10	335.0	15.0	290.5	2.0	0	0.00	78.	1003.	3	NAD-SFC	NoSubs
7	5	17	137	2	-25.6	0.252	-9.000	-9.000	-999.	304.	55.8	0.2930	0.52	1.00	2.60	339.0	15.0	289.9	2.0	0	0.00	78.	1004.	3	NAD-SFC	NoSubs
7	5	17	137	3	-16.4	0.200	-9.000	-9.000	-999.	215.	43.5	0.2930	0.52	1.00	2.10	350.0	15.0	289.4	2.0	0	0.00	78.	1004.	3	NAD-SFC	NoSubs
7	5	17	137	4	-4.0	0.102	-9.000	-9.000	-999.	83.	23.7	0.2940	0.52	1.00	1.00	11.0	15.0	288.9	2.0	0	0.00	79.	1005.	3	NAD-SFC	NoSubs
7	5	17	137	5	-1.6	0.084	-9.000	-9.000	-999.	58.	31.8	0.2940	0.52	1.00	0.50	16.0	15.0	288.4	2.0	0	0.00	80.	1005.	3	NAD-SFC	NoSubs
7	5	17	137	6	16.9	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.50	0.00	0.0	15.0	288.1	2.0	0	0.00	81.	1006.	3	NAD-SFC	NoSubs
7	5	17	137	7	35.5	-9.000	-9.000	-9.000	316.	-999.	-99999.0	0.2235	0.52	0.28	0.00	0.0	15.0	289.0	2.0	0	0.00	72.	1006.	3	NAD-SFC	NoSubs
7	5	17	137	8	81.1	-9.000	-9.000	-9.000	441.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	290.1	2.0	0	0.00	69.	1006.	3	NAD-SFC	NoSubs
7	5	17	137	9	120.4	-9.000	-9.000	-9.000	541.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	291.6	2.0	0	0.00	64.	1005.	2	NAD-SFC	NoSubs
7	5	17	137	10	152.0	-9.000	-9.000	-9.000	647.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	293.4	2.0	0	0.00	59.	1004.	2	NAD-SFC	NoSubs
7	5	17	137	11	173.6	-9.000	-9.000	-9.000	767.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.2	2.0	0	0.00	53.	1004.	2	NAD-SFC	NoSubs
7	5	17	137	12	183.9	-9.000	-9.000	-9.000	879.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.9	2.0	0	0.00	48.	1003.	2	NAD-SFC	NoSubs
7	5	17	137	13	183.3	-9.000	-9.000	-9.000	979.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.0	2.0	0	0.00	46.	1002.	2	NAD-SFC	NoSubs
7	5	17	137	14	171.7	0.120	1.731	0.009	1081.	99.	-1.0	0.2720	0.52	0.19	0.50	329.0	15.0	299.0	2.0	0	0.00	44.	1001.	2	NAD-SFC	NoSubs
7	5	17	137	15	148.8	0.233	1.691	0.009	1162.	269.	-7.5	0.2930	0.52	0.19	1.50	353.0	15.0	299.8	2.0	0	0.00	43.	1001.	2	NAD-SFC	NoSubs
7	5	17	137	16	116.0	-9.000	-9.000	-9.000	1221.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	300.0	2.0	0	0.00	42.	1000.	2	NAD-SFC	NoSubs
7	5	17	137	17	74.8	0.364	1.381	0.009	1258.	527.	-57.6	0.2940	0.52	0.23	3.10	8.0	15.0	300.0	2.0	0	0.00	43.	1000.	2	NAD-SFC	NoSubs
7	5	17	137	18	28.2	0.296	1.002	0.010	1270.	389.	-82.0	0.2940	0.52	0.31	2.60	14.0	15.0	299.5	2.0	0	0.00	53.	1000.	2	NAD-SFC	NoSubs
7	5	17	137	19	-3.8	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.58	0.00	0.0	15.0	298.6	2.0	0	0.00	54.	1001.	2	NAD-SFC	NoSubs
7	5	17	137	20	-35.9	0.355	-9.000	-9.000	-999.	507.	111.0	0.2930	0.52	1.00	3.60	347.0	15.0	297.4	2.0	0	0.00	57.	1001.	3	NAD-SFC	NoSubs
7	5	17	137	21	-35.3	0.347	-9.000	-9.000	-999.	491.	105.8	0.2720	0.52	1.00	3.60	305.0	15.0	296.1	2.0	0	0.00	60.	1001.	3	NAD-SFC	NoSubs
7	5	17	137	22	-43.2	0.420	-9.000	-9.000	-999.	653.	153.5	0.2160	0.52	1.00	4.60	284.0	15.0	293.2	2.0	0	0.00	68.	1002.	3	NAD-SFC	NoSubs
7	5	17	137	23	-33.6	0.325	-9.000	-9.000	-999.	451.	91.6	0.2160	0.52	1.00	3.60	287.0	15.0	291.8	2.0	0	0.00	71.	1002.	3	NAD-SFC	NoSubs
7	5	17	137	24	-30.7	0.297	-9.000	-9.000	-999.	388.	76.0	0.2720	0.52	1.00	3.10	321.0	15.0	291.2	2.0	0	0.00	73.	1003.	3	NAD-SFC	NoSubs
7	5	18	138	1	-31.5	0.303	-9.000	-9.000	-999.	401.	79.2	0.2930	0.52	1.00	3.10	346.0	15.0	290.6	2.0	0	0.00	76.	1003.	3	NAD-SFC	NoSubs
7	5	18	138	2	-31.6	0.303	-9.000	-9.000	-999.	401.	79.1	0.2940	0.52	1.00	3.10	13.0	15.0	289.8	2.0	0	0.00	78.	1004.	3	NAD-SFC	NoSubs
7	5	18	138	3	-16.5	0.200	-9.000	-9.000	-999.	220.	43.6	0.2940	0.52	1.00	2.10	24.0	15.0	289.1	2.0	0	0.00	80.	1004.	3	NAD-SFC	NoSubs
7	5	18	138	4	-8.2	0.140	-9.000	-9.000	-999.	127.	29.8	0.2940	0.52	1.00	1.50	22.0	15.0	288.5	2.0	0	0.00	81.	1004.	3	NAD-SFC	NoSubs
7	5	18	138	5	-4.0	0.102	-9.000	-9.000	-999.	78.	23.7	0.2940	0.52	1.00	1.00	7.0	15.0	287.8	2.0	0	0.00	82.	1005.	3	NAD-SFC	NoSubs
7	5	18	138	6	-2.5	0.093	-9.000	-9.000	-999.	68.	29.4	0.2940	0.52	0.49	1.00	16.0	15.0	287.5	2.0	0	0.00	83.	1006.	3	NAD-SFC	NoSubs
7	5	18	138	7	35.8	0.200	0.590	0.009	205.	214.	-19.9	0.2940	0.52	0.28	1.50	13.0	15.0	288.6	2.0	0	0.00	71.	1006.	3	NAD-SFC	NoSubs
7	5	18	138	8	81.6	-9.000	-9.000	-9.000	302.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	290.4	2.0	0	0.00	63.	1006.	3	NAD-SFC	NoSubs
7	5	18	138	9	121.3	-9.000	-9.000	-9.000	418.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	292.2	2.0	0	0.00	58.	1006.	3	NAD-SFC	NoSubs
7	5	18	138	10	152.6	-9.000	-9.000	-9.000	594.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.1	2.0	0	0.00	52.	1005.	2	NAD-SFC	NoSubs
7	5	18	138	11	174.2	-9.000	-9.000	-9.000	769.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.0	2.0	0	0.00	47.	1005.	2	NAD-SFC	NoSubs
7	5	18	138	12	184.4	-9.000	-9.000	-9.000	933.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.5	2.0	0	0.00	43.	1004.	2	NAD-SFC	NoSubs
7	5	18	138	13	183.8	-9.000	-9.000	-9.000	1053.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.8	2.0	0	0.00	40.	1003.	2	NAD-SFC	NoSubs
7	5	18	138	14	172.2	0.184	1.768	0.009	1148.	189.	-3.2	0.2930	0.52	0.19	1.00	352.0	15.0	299.8	2.0	0	0.00	38.	1002.	2	NAD-SFC	NoSubs
7	5	18	138	15	149.4	0.291	1.723	0.010	1225.	377.	-14.8	0.2940	0.52	0.19	2.10	5.0	15.0	300.4	2.0	0	0.00	36.	1002.	2	NAD-SFC	NoSubs
7	5	18	138	16	116.6	-9.000	-9.000	-9.000	1282.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	300.5	2.0	0	0.00	37.	1001.	2	NAD-SFC	NoSubs
7	5	18	138	17	75.3	-9.000	-9.000	-9.000	1316.	-999.	-99999.0	0.2235	0.52	0.23	0.00	0.0	15.0	300.1	2.0	0	0.00	42.	1001.	2	NAD-SFC	NoSubs
7	5	18	138	18	28.7	0.342	1.021	0.010	1326.	481.	-125.0	0.2930	0.52	0.31	3.10	357.0	15.0	299.4	2.0	0	0.00	52.	1002.	2	NAD-SFC	NoSubs
7	5	18	138	19	-29.6	0.409	-9.000	-9.000	-999.	627.	206.5	0.2930	0.52	0.57	4.10	351.0	15.0	298.1	2.0	0	0.00	56.	1002.	3	NAD-SFC	NoSubs
7	5	18	138	20	-41.3	0.406	-9.000	-9.000	-999.	621.	144.8	0.2930	0.52	1.00	4.10	333.0	15.0	296.1	2.0	0	0.00	63.	1002.	3	NAD-SFC	NoSubs
7	5	18	138	21	-41.6	0.406	-9.000	-9.000	-999.	621.	144.0	0.2930	0.52	1.00	4.10	341.0	15.0	294.4	2.0	0	0.00	68.	1003.	3	NAD-SFC	NoSubs
7	5	18	138	22	-41.8	0.406	-9.000	-9.000	-999.	621.	143.3	0.2930	0.52	1.00	4.10	336.0	15.0	293.1	2.0	0	0.00	71.	1003.	3	NAD-SFC	NoSubs

7	5	18	138	23	-41.1	0.397	-9.000	-9.000	-999.	601.	136.5	0.2720	0.52	1.00	4.10	326.0	15.0	291.8	2.0	0	0.00	74.	1004.	3	NAD-SFC NoSubs
7	5	18	138	24	-36.8	0.354	-9.000	-9.000	-999.	508.	108.3	0.2930	0.52	1.00	3.60	334.0	15.0	290.6	2.0	0	0.00	73.	1004.	3	NAD-SFC NoSubs
7	5	19	139	1	-31.6	0.303	-9.000	-9.000	-999.	402.	79.0	0.2930	0.52	1.00	3.10	339.0	15.0	289.8	2.0	0	0.00	72.	1004.	3	NAD-SFC NoSubs
7	5	19	139	2	-16.4	0.200	-9.000	-9.000	-999.	220.	43.5	0.2930	0.52	1.00	2.10	339.0	15.0	289.2	2.0	0	0.00	71.	1005.	3	NAD-SFC NoSubs
7	5	19	139	3	-8.2	0.140	-9.000	-9.000	-999.	126.	29.7	0.2930	0.52	1.00	1.50	344.0	15.0	288.6	2.0	0	0.00	72.	1005.	3	NAD-SFC NoSubs
7	5	19	139	4	-1.6	0.084	-9.000	-9.000	-999.	59.	31.9	0.2930	0.52	1.00	0.50	341.0	15.0	288.1	2.0	0	0.00	73.	1005.	3	NAD-SFC NoSubs
7	5	19	139	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	287.5	2.0	0	0.00	75.	1005.	3	NAD-SFC NoSubs
7	5	19	139	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.49	0.00	0.0	15.0	287.2	2.0	0	0.00	76.	1006.	3	NAD-SFC NoSubs
7	5	19	139	7	36.2	0.098	0.624	0.009	240.	74.	-2.4	0.2940	0.52	0.28	0.50	3.0	15.0	288.4	2.0	0	0.00	67.	1006.	3	NAD-SFC NoSubs
7	5	19	139	8	81.7	-9.000	-9.000	-9.000	378.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	289.8	2.0	0	0.00	63.	1006.	3	NAD-SFC NoSubs
7	5	19	139	9	121.0	-9.000	-9.000	-9.000	510.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	291.5	2.0	0	0.00	58.	1006.	2	NAD-SFC NoSubs
7	5	19	139	10	152.5	-9.000	-9.000	-9.000	639.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	293.2	2.0	0	0.00	53.	1005.	2	NAD-SFC NoSubs
7	5	19	139	11	174.1	-9.000	-9.000	-9.000	762.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.2	2.0	0	0.00	47.	1005.	2	NAD-SFC NoSubs
7	5	19	139	12	184.3	0.121	1.651	0.008	875.	101.	-1.0	0.2720	0.52	0.19	0.50	307.0	15.0	296.6	2.0	0	0.00	44.	1003.	2	NAD-SFC NoSubs
7	5	19	139	13	183.7	0.182	1.711	0.008	976.	186.	-2.9	0.2720	0.52	0.19	1.00	318.0	15.0	297.8	2.0	0	0.00	41.	1002.	2	NAD-SFC NoSubs
7	5	19	139	14	172.1	0.295	1.731	0.008	1078.	385.	-13.4	0.2930	0.52	0.19	2.10	341.0	15.0	298.8	2.0	0	0.00	40.	1002.	2	NAD-SFC NoSubs
7	5	19	139	15	149.2	0.338	1.692	0.008	1160.	472.	-23.2	0.2930	0.52	0.19	2.60	348.0	15.0	299.2	2.0	0	0.00	39.	1001.	2	NAD-SFC NoSubs
7	5	19	139	16	116.5	0.423	1.584	0.009	1219.	659.	-57.9	0.2940	0.52	0.20	3.60	4.0	15.0	299.4	2.0	0	0.00	40.	1001.	2	NAD-SFC NoSubs
7	5	19	139	17	75.4	0.410	1.384	0.009	1256.	630.	-81.4	0.2930	0.52	0.23	3.60	358.0	15.0	299.2	2.0	0	0.00	43.	1000.	2	NAD-SFC NoSubs
7	5	19	139	18	28.9	0.296	1.008	0.009	1268.	395.	-80.4	0.2930	0.52	0.31	2.60	352.0	15.0	298.6	2.0	0	0.00	53.	1001.	2	NAD-SFC NoSubs
7	5	19	139	19	-29.1	0.409	-9.000	-9.000	-999.	628.	210.0	0.2930	0.52	0.57	4.10	345.0	15.0	297.4	2.0	0	0.00	58.	1001.	3	NAD-SFC NoSubs
7	5	19	139	20	-41.4	0.406	-9.000	-9.000	-999.	621.	144.4	0.2930	0.52	1.00	4.10	330.0	15.0	295.2	2.0	0	0.00	66.	1001.	3	NAD-SFC NoSubs
7	5	19	139	21	-36.3	0.355	-9.000	-9.000	-999.	509.	109.7	0.2930	0.52	1.00	3.60	332.0	15.0	294.0	2.0	0	0.00	70.	1001.	3	NAD-SFC NoSubs
7	5	19	139	22	-36.5	0.355	-9.000	-9.000	-999.	507.	109.2	0.2930	0.52	1.00	3.60	345.0	15.0	292.9	2.0	0	0.00	72.	1002.	3	NAD-SFC NoSubs
7	5	19	139	23	-41.0	0.397	-9.000	-9.000	-999.	600.	136.5	0.2720	0.52	1.00	4.10	328.0	15.0	291.8	2.0	0	0.00	75.	1002.	3	NAD-SFC NoSubs
7	5	19	139	24	-36.7	0.354	-9.000	-9.000	-999.	508.	108.3	0.2930	0.52	1.00	3.60	335.0	15.0	290.6	2.0	0	0.00	78.	1002.	3	NAD-SFC NoSubs
7	5	20	140	1	-25.5	0.252	-9.000	-9.000	-999.	309.	55.8	0.2930	0.52	1.00	2.60	344.0	15.0	289.8	2.0	0	0.00	78.	1002.	3	NAD-SFC NoSubs
7	5	20	140	2	-16.4	0.200	-9.000	-9.000	-999.	215.	43.5	0.2930	0.52	1.00	2.10	345.0	15.0	289.4	2.0	0	0.00	77.	1003.	3	NAD-SFC NoSubs
7	5	20	140	3	-8.2	0.140	-9.000	-9.000	-999.	126.	29.8	0.2930	0.52	1.00	1.50	339.0	15.0	288.8	2.0	0	0.00	77.	1003.	3	NAD-SFC NoSubs
7	5	20	140	4	-1.6	0.084	-9.000	-9.000	-999.	59.	31.9	0.2930	0.52	1.00	0.50	337.0	15.0	288.2	2.0	0	0.00	78.	1003.	3	NAD-SFC NoSubs
7	5	20	140	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	287.8	2.0	0	0.00	79.	1004.	3	NAD-SFC NoSubs
7	5	20	140	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.49	0.00	0.0	15.0	287.6	2.0	0	0.00	80.	1004.	3	NAD-SFC NoSubs
7	5	20	140	7	36.8	0.099	0.626	0.008	239.	74.	-2.3	0.2930	0.52	0.28	0.50	357.0	15.0	289.1	2.0	0	0.00	69.	1004.	3	NAD-SFC NoSubs
7	5	20	140	8	82.3	-9.000	-9.000	-9.000	395.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	290.6	2.0	0	0.00	63.	1004.	3	NAD-SFC NoSubs
7	5	20	140	9	121.8	-9.000	-9.000	-9.000	533.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	292.0	2.0	0	0.00	58.	1003.	3	NAD-SFC NoSubs
7	5	20	140	10	153.0	0.112	1.419	0.008	669.	90.	-1.0	0.2160	0.52	0.19	0.50	291.0	15.0	293.8	2.0	0	0.00	52.	1003.	2	NAD-SFC NoSubs
7	5	20	140	11	174.3	0.181	1.578	0.009	807.	184.	-3.0	0.2720	0.52	0.19	1.00	304.0	15.0	295.1	2.0	0	0.00	48.	1002.	2	NAD-SFC NoSubs
7	5	20	140	12	184.4	0.235	1.687	0.010	932.	274.	-6.3	0.2720	0.52	0.19	1.50	321.0	15.0	296.4	2.0	0	0.00	44.	1001.	2	NAD-SFC NoSubs
7	5	20	140	13	183.8	0.340	1.742	0.011	1027.	475.	-19.0	0.2720	0.52	0.19	2.60	329.0	15.0	297.5	2.0	0	0.00	41.	1000.	2	NAD-SFC NoSubs
7	5	20	140	14	172.2	0.435	1.745	0.012	1102.	689.	-42.7	0.2930	0.52	0.19	3.60	337.0	15.0	298.4	2.0	0	0.00	38.	999.	2	NAD-SFC NoSubs
7	5	20	140	15	149.3	0.522	1.695	0.012	1163.	904.	-84.8	0.2930	0.52	0.19	4.60	350.0	15.0	298.6	2.0	0	0.00	37.	998.	2	NAD-SFC NoSubs
7	5	20	140	16	116.5	0.617	1.580	0.012	1208.	1162.	-179.6	0.2930	0.52	0.20	5.70	349.0	15.0	298.8	2.0	0	0.00	40.	998.	2	NAD-SFC NoSubs
7	5	20	140	17	75.3	0.503	1.377	0.013	1234.	870.	-150.3	0.2930	0.52	0.23	4.60	350.0	15.0	298.0	2.0	0	0.00	46.	998.	2	NAD-SFC NoSubs
7	5	20	140	18	28.8	0.389	1.002	0.013	1243.	595.	-182.8	0.2930	0.52	0.31	3.60	345.0	15.0	297.1	2.0	0	0.00	54.	998.	2	NAD-SFC NoSubs
7	5	20	140	19	-31.0	0.408	-9.000	-9.000	-999.	626.	195.7	0.2930	0.52	0.56	4.10	344.0	15.0	295.8	2.0	0	0.00	56.	998.	2	NAD-SFC NoSubs
7	5	20	140	20	-41.6	0.397	-9.000	-9.000	-999.	601.	133.9	0.2720	0.52	1.00	4.10	326.0	15.0	293.9	2.0	0	0.00	60.	998.	2	NAD-SFC NoSubs
7	5	20	140	21	-42.7	0.406	-9.000	-9.000	-999.	620.	139.2	0.2930	0.52	1.00	4.10	339.0	15.0	292.6	2.0	0	0.00	64.	999.	2	NAD-SFC NoSubs
7	5	20	140	22	-35.7	0.347	-9.000	-9.000	-999.	493.	104.1	0.2720	0.52	1.00	3.60	329.0	15.0	291.8	2.0	0	0.00	66.	999.	3	NAD-SFC NoSubs
7	5	20	140	23	-35.8	0.347	-9.000	-9.000	-999.	490.	103.8	0.2720	0.52	1.00	3.60	318.0	15.0	290.9	2.0	0	0.00	69.	999.	3	NAD-SFC NoSubs
7	5	20	140	24	-30.7	0.297	-9.000	-9.000	-999.	389.	75.7	0.2720	0.52	1.00	3.10	306.0	15.0	290.0	2.0	0	0.00	72.	999.	3	NAD-SFC NoSubs
7	5	21	141	1	-24.6	0.246	-9.000	-9.000	-999.	294.	54.1	0.2720	0.52	1.00	2.60	310.0	15.0	289.5	2.0	0	0.00	73.	999.	3	NAD-SFC NoSubs
7	5	21	141	2	-7.9	0.137	-9.000	-9.000	-999.	128.	29.0	0.2720	0.52	1.00	1.50	302.0	15.0	289.0	2.0	0	0.00	73.	999.	3	NAD-SFC NoSubs
7	5	21	141	3	-1.5	0.080	-9.000	-9.000	-999.	56.	31.2	0.2160	0.52	1.00	0.50	296.0	15.0	288.6	2.0	0	0.00	75.	999.	3	NAD-SFC NoSubs
7	5	21	141	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	288.2	2.0	0	0.00	77.	999.	3	NAD-SFC NoSubs
7	5	21	141	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	287.8	2.0	0	0.00	79.	999.	3	NAD-SFC NoSubs
7	5	21	141	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.48	0.00	0.0	15.0	287.5	2.0	0	0.00	80.	1000.	3	NAD-SFC NoSubs
7	5	21	141	7	37.2	0.200	0.664	0.006	281.	215.	-19.3	0.2930	0.52	0.28	1.50	360.0	15.0	289.1	2.0	0	0.00	73.	1000.	3	NAD-SFC NoSubs
7	5	21	141	8	82.6	0.110	1.035	0.007	479.	91.	-1.4	0.2930	0.52	0.22	0.50	354.0	15.0	290.2	2.0	0	0.00	69.	1000.	3	NAD-SFC NoSubs
7	5	21	141	9	122.0	-9.000	-9.000	-9.000	660.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	291.8	2.0	0	0.00	64.	999.	3	NAD-SFC NoSubs
7	5	21	141	10	153.1	0.118	1.491	0.006	773.	97.	-1.0	0.2720	0.52	0.19	0.50	313.0	15.0	293.2	2.0	0	0.00	59.	999.	3	NAD-SFC NoSubs
7	5	21	141	11	174.2	0.234	1.630	0.006	886.	271.	-6.5	0.2720	0.52	0.19	1.50	308.0	15.0	294.6	2.0	0	0.00	55.	998.	3	NAD-SFC NoSubs
7	5	21	141	12	184.3	0.293	1.735	0.007	1009.	380.	-12.1	0.2720	0.52	0.19	2.10	324.0	15.0	296.1	2.0	0	0.00	50.	997.	3	NAD-SFC NoSubs
7	5	21	141	13	183.7	0.391	1.824	0.009	1178.	587.	-29.0	0.2930	0.52	0.19	3.10	332.0	15.0	297.2	2.0	0	0.00	45.	997.	3	NAD-SFC NoSubs
7	5	21	141	14	172.3	0.481	1.854	0.011	1317.	801.	-57.5	0.2930	0.52	0.19	4.10	337.0	15.0	298.1	2.0	0	0.00	42.	996.	3	NAD-SFC NoSubs
7	5	21	141	15	149.6	0.568	1.794	0.011	1373.	1027.	-109.0	0.2930	0.52	0.19	5.10	345.0	15.0	298.5	2.0	0	0.00	41.	996.	3	NAD-SFC NoSubs
7	5	21	141	16	117.2	0.617	1.666	0.010	1405.	1163.	-178.4	0.2930	0.52	0.20	5.70	343.0	15.0	298.4	2.0	0	0.00	41.	996.	3	NAD-SFC NoSubs
7	5	21	141	17	76.6	0.457	1.453	0.010	1425.	765.	-110.4	0.2930	0.52	0.22	4.10	343.0	15.0	298.1	2.0	0	0.00	44.	996.	3	NAD-SFC NoSubs
7	5	21	141	18	29.3	0.337	1.057	0.010	1432.	482.	-116.2	0.2720	0.52	0.31	3.10	326.0	15.0	297.2	2.0	0	0.00	50.	996.	2	NAD-SFC NoSubs
7	5	21	141	19	-25.7	0.349	-9.000	-9.000	-999.	495.	147.1	0.2720	0.52	0.56	3.60	319.0	15.0	296.0	2.0	0	0.00	49.	996.	2	NAD-SFC NoSubs
7	5	21	141	20	-36.1	0.347	-9.000	-9.000	-999.	490.	102.4	0.2720	0.52	1.00	3.60	307.0	15.0	294.8	2.0	0	0.00	48.	996.	2	NAD-SFC NoSubs
7	5	21	141	21	-36.3	0.347	-9.000	-9.000	-999.	490.	102.1	0.2720	0.52	1.00	3.60	301.0	15.0	293.8	2.0	0	0.00	47.	996.	2	NAD-SFC NoSubs
7	5	21	141	22	-29.2	0.278	-9.000	-9.000	-999.	354.	65.3	0.2160	0.52	1.00	3.10	288.0	15.0	292.5	2.0	0	0.00	48.	996.	2	NAD-SFC NoSubs
7	5	21	141	23	-14.2	0.183	-9.000	-9.000	-999.	192.	38.2	0.2160	0.52	1.00	2.10	288.0	15.0	291.5	2.0	0	0.00	48.	996.	2	NAD-SFC NoSubs
7	5	21	141	24	-3.6	0.097	-9.000	-9.000	-999.	75.	22.4	0.2160	0.52	1.00	1.00	283.0	15.0	290.8	2.0	0	0.00	49.	996.	2	NAD-SFC NoSubs
7	5	22	142	1	-3.4	0.094	-9.000	-9.000	-999.	69.	21.7	0.1750	0.52	1.00	1.00	263.0	15.0	290.0	2.0	0	0.00	51.	996.	2	NAD-SFC NoSubs
7	5	22	142	2	-6.6	0.123	-9.000	-9.000	-999.	103.	24.7	0.1750	0.52	1.00	1.50	252.0	15.0	289.4	2.0	0	0.00	52.	997.	2	NAD-SFC NoSubs
7	5	22	142	3	-20.4	0.218	-9.000	-9.000	-999.	244.	45.1	0.1750	0.52	1.00	2.60	252.0	15.0	288.8	2.0	0	0.00	52.	997.	2	NAD-SFC NoSubs

7	5	22	142	4	-32.9	0.308	-9.000	-9.000	-999.	410.	79.0	0.1750	0.52	1.00	3.60	260.0	15.0	288.2	2.0	0	0.00	52.	997.	2	NAD-SFC	NoSubs
7	5	22	142	5	-34.8	0.325	-9.000	-9.000	-999.	445.	87.7	0.2160	0.52	1.00	3.60	278.0	15.0	287.2	2.0	0	0.00	57.	997.	2	NAD-SFC	NoSubs
7	5	22	142	6	-11.2	0.236	-9.000	-9.000	-999.	278.	103.8	0.2160	0.52	0.48	2.60	287.0	15.0	286.2	2.0	0	0.00	63.	998.	2	NAD-SFC	NoSubs
7	5	22	142	7	36.2	0.347	0.607	0.009	220.	490.	-102.6	0.2930	0.52	0.28	3.10	341.0	15.0	288.2	2.0	0	0.00	57.	999.	2	NAD-SFC	NoSubs
7	5	22	142	8	82.2	0.218	0.903	0.010	319.	254.	-11.2	0.2930	0.52	0.22	1.50	344.0	15.0	290.2	2.0	0	0.00	47.	999.	2	NAD-SFC	NoSubs
7	5	22	142	9	122.0	0.173	1.142	0.009	435.	173.	-3.8	0.2720	0.52	0.20	1.00	326.0	15.0	292.0	2.0	0	0.00	42.	999.	2	NAD-SFC	NoSubs
7	5	22	142	10	153.4	0.230	1.344	0.008	564.	264.	-7.0	0.2720	0.52	0.19	1.50	318.0	15.0	293.6	2.0	0	0.00	37.	999.	2	NAD-SFC	NoSubs
7	5	22	142	11	174.8	0.181	1.501	0.007	691.	185.	-3.0	0.2720	0.52	0.19	1.00	316.0	15.0	295.1	2.0	0	0.00	34.	999.	2	NAD-SFC	NoSubs
7	5	22	142	12	184.9	0.235	1.623	0.007	825.	274.	-6.3	0.2720	0.52	0.19	1.50	325.0	15.0	296.5	2.0	0	0.00	30.	999.	2	NAD-SFC	NoSubs
7	5	22	142	13	184.4	0.293	1.695	0.006	942.	380.	-12.1	0.2720	0.52	0.19	2.10	328.0	15.0	297.8	2.0	0	0.00	27.	998.	2	NAD-SFC	NoSubs
7	5	22	142	14	172.9	0.343	1.725	0.006	1057.	483.	-20.8	0.2930	0.52	0.19	2.60	342.0	15.0	298.6	2.0	0	0.00	24.	997.	2	NAD-SFC	NoSubs
7	5	22	142	15	150.1	0.431	1.694	0.005	1153.	678.	-47.3	0.2930	0.52	0.19	3.60	338.0	15.0	299.1	2.0	0	0.00	23.	997.	2	NAD-SFC	NoSubs
7	5	22	142	16	117.5	0.468	1.591	0.005	1222.	769.	-77.7	0.2930	0.52	0.20	4.10	346.0	15.0	299.2	2.0	0	0.00	24.	997.	2	NAD-SFC	NoSubs
7	5	22	142	17	76.4	0.410	1.395	0.005	1263.	633.	-80.3	0.2930	0.52	0.22	3.60	354.0	15.0	298.6	2.0	0	0.00	31.	997.	2	NAD-SFC	NoSubs
7	5	22	142	18	30.0	0.343	1.024	0.005	1277.	486.	-120.1	0.2930	0.52	0.30	3.10	346.0	15.0	297.6	2.0	0	0.00	40.	997.	2	NAD-SFC	NoSubs
7	5	22	142	19	-25.5	0.357	-9.000	-9.000	-999.	512.	159.1	0.2930	0.52	0.55	3.60	336.0	15.0	296.6	2.0	0	0.00	43.	997.	2	NAD-SFC	NoSubs
7	5	22	142	20	-42.3	0.406	-9.000	-9.000	-999.	620.	140.5	0.2930	0.52	1.00	4.10	335.0	15.0	295.1	2.0	0	0.00	46.	997.	2	NAD-SFC	NoSubs
7	5	22	142	21	-36.3	0.347	-9.000	-9.000	-999.	492.	102.1	0.2720	0.52	1.00	3.60	321.0	15.0	293.8	2.0	0	0.00	48.	998.	2	NAD-SFC	NoSubs
7	5	22	142	22	-36.5	0.347	-9.000	-9.000	-999.	490.	101.7	0.2720	0.52	1.00	3.60	314.0	15.0	292.6	2.0	0	0.00	51.	998.	2	NAD-SFC	NoSubs
7	5	22	142	23	-24.8	0.246	-9.000	-9.000	-999.	298.	53.5	0.2720	0.52	1.00	2.60	300.0	15.0	291.2	2.0	0	0.00	54.	998.	2	NAD-SFC	NoSubs
7	5	22	142	24	-3.9	0.101	-9.000	-9.000	-999.	96.	23.3	0.2720	0.52	1.00	1.00	314.0	15.0	290.2	2.0	0	0.00	56.	998.	2	NAD-SFC	NoSubs
7	5	23	143	1	-1.6	0.083	-9.000	-9.000	-999.	58.	31.9	0.2720	0.52	1.00	0.50	305.0	15.0	289.5	2.0	0	0.00	59.	999.	2	NAD-SFC	NoSubs
7	5	23	143	2	-3.6	0.097	-9.000	-9.000	-999.	72.	22.4	0.2160	0.52	1.00	1.00	271.0	15.0	288.8	2.0	0	0.00	60.	999.	2	NAD-SFC	NoSubs
7	5	23	143	3	-7.2	0.129	-9.000	-9.000	-999.	111.	26.4	0.2160	0.52	1.00	1.50	272.0	15.0	288.2	2.0	0	0.00	62.	1000.	2	NAD-SFC	NoSubs
7	5	23	143	4	-6.7	0.123	-9.000	-9.000	-999.	103.	24.7	0.1750	0.52	1.00	1.50	254.0	15.0	287.8	2.0	0	0.00	62.	1001.	2	NAD-SFC	NoSubs
7	5	23	143	5	-20.6	0.218	-9.000	-9.000	-999.	244.	45.0	0.1750	0.52	1.00	2.60	241.0	15.0	287.2	2.0	0	0.00	61.	1001.	2	NAD-SFC	NoSubs
7	5	23	143	6	-12.4	0.276	-9.000	-9.000	-999.	348.	150.6	0.1950	0.52	0.48	3.10	239.0	15.0	287.1	2.0	0	0.00	60.	1002.	2	NAD-SFC	NoSubs
7	5	23	143	7	36.8	0.282	0.511	0.006	129.	359.	-54.4	0.2160	0.52	0.28	2.60	285.0	15.0	289.0	2.0	0	0.00	49.	1002.	2	NAD-SFC	NoSubs
7	5	23	143	8	82.6	0.204	0.857	0.008	272.	223.	-9.2	0.2160	0.52	0.22	1.50	270.0	15.0	290.8	2.0	0	0.00	42.	1003.	2	NAD-SFC	NoSubs
7	5	23	143	9	122.6	0.256	1.100	0.006	389.	311.	-12.2	0.1750	0.52	0.20	2.10	258.0	15.0	293.1	2.0	0	0.00	34.	1003.	2	NAD-SFC	NoSubs
7	5	23	143	10	154.1	0.209	1.365	0.005	591.	230.	-5.3	0.1750	0.52	0.19	1.50	264.0	15.0	295.0	2.0	0	0.00	30.	1002.	2	NAD-SFC	NoSubs
7	5	23	143	11	175.6	0.114	1.573	0.005	794.	96.	-1.0	0.2160	0.52	0.19	0.50	285.0	15.0	296.8	2.0	0	0.00	27.	1002.	2	NAD-SFC	NoSubs
7	5	23	143	12	185.8	-9.000	-9.000	-9.000	985.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.2	2.0	0	0.00	25.	1001.	2	NAD-SFC	NoSubs
7	5	23	143	13	185.3	-9.000	-9.000	-9.000	1179.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.5	2.0	0	0.00	23.	1001.	2	NAD-SFC	NoSubs
7	5	23	143	14	173.9	-9.000	-9.000	-9.000	1337.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.4	2.0	0	0.00	22.	1000.	2	NAD-SFC	NoSubs
7	5	23	143	15	151.3	-9.000	-9.000	-9.000	1413.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.1	2.0	0	0.00	22.	1000.	2	NAD-SFC	NoSubs
7	5	23	143	16	118.9	0.176	1.698	0.006	1469.	177.	-4.1	0.2940	0.52	0.20	1.00	10.0	15.0	301.5	2.0	0	0.00	22.	999.	2	NAD-SFC	NoSubs
7	5	23	143	17	78.0	0.273	1.487	0.005	1504.	343.	-23.3	0.2940	0.52	0.22	2.10	22.0	15.0	301.2	2.0	0	0.00	24.	999.	2	NAD-SFC	NoSubs
7	5	23	143	18	31.5	0.344	1.102	0.005	1515.	485.	-115.7	0.2940	0.52	0.30	3.10	19.0	15.0	300.0	2.0	0	0.00	36.	999.	2	NAD-SFC	NoSubs
7	5	23	143	19	-22.8	0.340	-9.000	-9.000	-999.	477.	154.1	0.2470	0.52	0.55	3.60	32.0	15.0	298.8	2.0	0	0.00	40.	1000.	2	NAD-SFC	NoSubs
7	5	23	143	20	-16.4	0.200	-9.000	-9.000	-999.	228.	43.6	0.2940	0.52	1.00	2.10	4.0	15.0	297.5	2.0	0	0.00	43.	1000.	2	NAD-SFC	NoSubs
7	5	23	143	21	-49.0	0.467	-9.000	-9.000	-999.	767.	186.1	0.2160	0.52	1.00	5.10	274.0	15.0	294.5	2.0	0	0.00	51.	1001.	2	NAD-SFC	NoSubs
7	5	23	143	22	-37.3	0.353	-9.000	-9.000	-999.	513.	105.0	0.1750	0.52	1.00	4.10	269.0	15.0	291.8	2.0	0	0.00	54.	1001.	2	NAD-SFC	NoSubs
7	5	23	143	23	-34.5	0.325	-9.000	-9.000	-999.	446.	88.9	0.2160	0.52	1.00	3.60	281.0	15.0	290.9	2.0	0	0.00	51.	1001.	2	NAD-SFC	NoSubs
7	5	23	143	24	-24.9	0.246	-9.000	-9.000	-999.	296.	53.4	0.2720	0.52	1.00	2.60	304.0	15.0	290.6	2.0	0	0.00	50.	1001.	2	NAD-SFC	NoSubs
7	5	24	144	1	-1.7	0.084	-9.000	-9.000	-999.	89.	32.0	0.2940	0.52	1.00	0.50	26.0	15.0	290.8	2.0	0	0.00	47.	1002.	2	NAD-SFC	NoSubs
7	5	24	144	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	290.6	2.0	0	0.00	47.	1002.	2	NAD-SFC	NoSubs
7	5	24	144	3	-3.5	0.095	-9.000	-9.000	-999.	70.	22.0	0.1900	0.52	1.00	1.00	181.0	15.0	289.8	2.0	0	0.00	52.	1002.	2	NAD-SFC	NoSubs
7	5	24	144	4	-13.8	0.178	-9.000	-9.000	-999.	180.	36.6	0.1950	0.52	1.00	2.10	214.0	15.0	289.0	2.0	0	0.00	55.	1002.	2	NAD-SFC	NoSubs
7	5	24	144	5	-21.5	0.224	-9.000	-9.000	-999.	255.	46.9	0.1950	0.52	1.00	2.60	231.0	15.0	288.6	2.0	0	0.00	56.	1003.	2	NAD-SFC	NoSubs
7	5	24	144	6	-11.3	0.269	-9.000	-9.000	-999.	334.	154.3	0.1750	0.52	0.47	3.10	257.0	15.0	288.2	2.0	0	0.00	59.	1003.	2	NAD-SFC	NoSubs
7	5	24	144	7	37.3	0.252	0.518	0.008	133.	303.	-38.2	0.2720	0.52	0.28	2.10	305.0	15.0	289.8	2.0	0	0.00	58.	1003.	2	NAD-SFC	NoSubs
7	5	24	144	8	83.2	0.157	0.836	0.009	251.	152.	-4.1	0.2160	0.52	0.22	1.00	291.0	15.0	291.8	2.0	0	0.00	53.	1003.	2	NAD-SFC	NoSubs
7	5	24	144	9	123.2	0.104	1.072	0.007	357.	80.	-1.0	0.1750	0.52	0.20	0.50	268.0	15.0	294.2	2.0	0	0.00	44.	1003.	2	NAD-SFC	NoSubs
7	5	24	144	10	154.9	-9.000	-9.000	-9.000	541.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.6	2.0	0	0.00	36.	1002.	2	NAD-SFC	NoSubs
7	5	24	144	11	176.6	-9.000	-9.000	-9.000	746.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.8	2.0	0	0.00	28.	1001.	2	NAD-SFC	NoSubs
7	5	24	144	12	186.8	-9.000	-9.000	-9.000	943.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.2	2.0	0	0.00	25.	1001.	2	NAD-SFC	NoSubs
7	5	24	144	13	186.5	-9.000	-9.000	-9.000	1064.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.5	2.0	0	0.00	22.	1000.	2	NAD-SFC	NoSubs
7	5	24	144	14	175.0	-9.000	-9.000	-9.000	1160.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.2	2.0	0	0.00	21.	999.	2	NAD-SFC	NoSubs
7	5	24	144	15	152.4	0.181	1.741	0.005	1236.	185.	-3.5	0.2940	0.52	0.19	1.00	14.0	15.0	302.8	2.0	0	0.00	21.	999.	2	NAD-SFC	NoSubs
7	5	24	144	16	120.0	0.285	1.633	0.005	1294.	366.	-17.2	0.2940	0.52	0.20	2.10	22.0	15.0	303.0	2.0	0	0.00	21.	998.	2	NAD-SFC	NoSubs
7	5	24	144	17	79.0	0.320	1.434	0.005	1329.	433.	-36.8	0.2940	0.52	0.22	2.60	29.0	15.0	302.4	2.0	0	0.00	27.	998.	2	NAD-SFC	NoSubs
7	5	24	144	18	32.6	0.299	1.072	0.005	1345.	392.	-72.8	0.2940	0.52	0.30	2.60	29.0	15.0	301.5	2.0	0	0.00	36.	998.	2	NAD-SFC	NoSubs
7	5	24	144	19	-12.7	0.204	-9.000	-9.000	-999.	225.	59.6	0.2940	0.52	0.54	2.10	14.0	15.0	300.6	2.0	0	0.00	37.	999.	2	NAD-SFC	NoSubs
7	5	24	144	20	-45.8	0.443	-9.000	-9.000	-999.	708.	169.2	0.1750	0.52	1.00	5.10	268.0	15.0	298.2	2.0	0	0.00	44.	999.	2	NAD-SFC	NoSubs
7	5	24	144	21	-49.1	0.467	-9.000	-9.000	-999.	767.	185.5	0.2160	0.52	1.00	5.10	270.0	15.0	293.8	2.0	0	0.00	63.	1000.	2	NAD-SFC	NoSubs
7	5	24	144	22	-39.3	0.372	-9.000	-9.000	-999.	552.	117.2	0.2160	0.52	1.00	4.10	272.0	15.0	292.2	2.0	0	0.00	64.	1000.	2	NAD-SFC	NoSubs
7	5	24	144	23	-34.4	0.325	-9.000	-9.000	-999.	447.	89.1	0.2160	0.52	1.00	3.60	273.0	15.0	291.4	2.0	0	0.00	67.	1000.	2	NAD-SFC	NoSubs
7	5	24	144	24	-22.4	0.230	-9.000	-9.000	-999.	270.	48.9	0.2160	0.52	1.00	2.60	286.0	15.0	290.8	2.0	0	0.00	69.	1001.	2	NAD-SFC	NoSubs
7	5	25	145	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	290.9	2.0	0	0.00	68.	1001.	2	NAD-SFC	NoSubs
7	5	25	145	2	-1.5	0.081	-9.000	-9.000	-999.	55.	31.4	0.2160	0.52	1.00	0.50	273.0	15.0	290.9	2.0	0	0.00	67.	1001.	2	NAD-SFC	NoSubs
7	5	25	145	3	-1.6	0.083	-9.000	-9.000	-999.	58.	31.9	0.2720	0.52	1.00	0.50	323.0	15.0	290.4	2.0	0	0.00	71.	1002.	2	NAD-SFC	NoSubs
7	5	25	145	4	-3.9	0.101	-9.000	-9.000	-999.	77.	23.3	0.2720	0.52	1.00	1.00	304.0	15.0	289.8	2.0	0	0.00	75.	1002.	2	NAD-SFC	NoSubs
7	5	25	145	5	-1.5	0.081	-9.000	-9.000	-999.	56.	31.5	0.2160	0.52	1.00	0.50	297.0	15.0	289.0	2.0	0	0.00	79.	1002.	2	NAD-SFC	NoSubs
7	5	25	145	6	18.2	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.47	0.00	0.0	15.0	288.8	2.0	0	0.00	82.	1003.	2	NAD-SFC	NoSubs
7	5	25	145	7	37.8	0.099	0.641	0.012	248.	75.	-2.3	0.2930	0.52	0.28	0.50	350.0	15.0	290.4	2.0	0	0.00	78.	1003.	2	NAD-SFC	NoSubs
7	5	25	145	8	83.7	-9.000	-9.000	-9.000	338.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	292.4	2.0	0	0.00	69.	1003.	2	NAD-SFC	NoSubs

7	5	25	145	9	123.5	-9.000	-9.000	-9.000	442.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	294.2	2.0	0	0.00	61.	1002.	2	NAD-SFC NoSubs
7	5	25	145	10	155.0	-9.000	-9.000	-9.000	551.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.2	2.0	0	0.00	54.	1002.	2	NAD-SFC NoSubs
7	5	25	145	11	176.6	-9.000	-9.000	-9.000	654.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.2	2.0	0	0.00	45.	1001.	2	NAD-SFC NoSubs
7	5	25	145	12	186.9	-9.000	-9.000	-9.000	783.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.0	2.0	0	0.00	39.	1000.	2	NAD-SFC NoSubs
7	5	25	145	13	186.6	-9.000	-9.000	-9.000	895.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.4	2.0	0	0.00	34.	999.	2	NAD-SFC NoSubs
7	5	25	145	14	175.3	-9.000	-9.000	-9.000	996.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.4	2.0	0	0.00	31.	999.	2	NAD-SFC NoSubs
7	5	25	145	15	152.7	0.233	1.679	0.006	1105.	271.	-7.4	0.2940	0.52	0.19	1.50	21.0	15.0	302.9	2.0	0	0.00	30.	998.	2	NAD-SFC NoSubs
7	5	25	145	16	120.1	0.378	1.585	0.006	1181.	558.	-40.0	0.2940	0.52	0.20	3.10	16.0	15.0	302.5	2.0	0	0.00	32.	998.	2	NAD-SFC NoSubs
7	5	25	145	17	78.8	0.366	1.394	0.005	1225.	531.	-55.2	0.2940	0.52	0.22	3.10	29.0	15.0	301.0	2.0	0	0.00	46.	998.	2	NAD-SFC NoSubs
7	5	25	145	18	32.2	0.345	1.038	0.005	1239.	486.	-113.5	0.2940	0.52	0.30	3.10	23.0	15.0	299.5	2.0	0	0.00	52.	999.	2	NAD-SFC NoSubs
7	5	25	145	19	-16.1	0.255	-9.000	-9.000	-999.	313.	92.0	0.2930	0.52	0.54	2.60	340.0	15.0	298.8	2.0	0	0.00	52.	999.	2	NAD-SFC NoSubs
7	5	25	145	20	-38.6	0.373	-9.000	-9.000	-999.	546.	119.6	0.2160	0.52	1.00	4.10	294.0	15.0	298.0	2.0	0	0.00	54.	1000.	2	NAD-SFC NoSubs
7	5	25	145	21	-43.9	0.420	-9.000	-9.000	-999.	653.	150.4	0.2160	0.52	1.00	4.60	278.0	15.0	295.0	2.0	0	0.00	65.	1000.	2	NAD-SFC NoSubs
7	5	25	145	22	-44.2	0.420	-9.000	-9.000	-999.	653.	149.6	0.2160	0.52	1.00	4.60	283.0	15.0	293.5	2.0	0	0.00	68.	1001.	2	NAD-SFC NoSubs
7	5	25	145	23	-39.3	0.372	-9.000	-9.000	-999.	547.	117.3	0.2160	0.52	1.00	4.10	282.0	15.0	292.6	2.0	0	0.00	69.	1001.	2	NAD-SFC NoSubs
7	5	25	145	24	-22.3	0.230	-9.000	-9.000	-999.	279.	49.0	0.2160	0.52	1.00	2.60	285.0	15.0	291.6	2.0	0	0.00	71.	1001.	2	NAD-SFC NoSubs
7	5	26	146	1	-3.6	0.097	-9.000	-9.000	-999.	89.	22.4	0.2160	0.52	1.00	1.00	299.0	15.0	291.1	2.0	0	0.00	72.	1001.	2	NAD-SFC NoSubs
7	5	26	146	2	-1.4	0.078	-9.000	-9.000	-999.	53.	30.7	0.1750	0.52	1.00	0.50	259.0	15.0	290.6	2.0	0	0.00	74.	1002.	3	NAD-SFC NoSubs
7	5	26	146	3	-1.4	0.079	-9.000	-9.000	-999.	54.	31.0	0.1950	0.52	1.00	0.50	218.0	15.0	290.5	2.0	0	0.00	75.	1002.	3	NAD-SFC NoSubs
7	5	26	146	4	-1.5	0.080	-9.000	-9.000	-999.	54.	31.2	0.1950	0.52	1.00	0.50	216.0	15.0	290.5	2.0	0	0.00	75.	1002.	2	NAD-SFC NoSubs
7	5	26	146	5	-1.5	0.080	-9.000	-9.000	-999.	54.	31.2	0.1900	0.52	1.00	0.50	199.0	15.0	290.0	2.0	0	0.00	78.	1002.	2	NAD-SFC NoSubs
7	5	26	146	6	-0.6	0.054	-9.000	-9.000	-999.	30.	23.3	0.2130	0.52	0.47	0.50	118.0	15.0	289.6	2.0	0	0.00	81.	1003.	2	NAD-SFC NoSubs
7	5	26	146	7	38.0	-9.000	-9.000	-9.000	167.	-999.	-99999.0	0.2235	0.52	0.28	0.00	0.0	15.0	290.1	2.0	0	0.00	81.	1003.	2	NAD-SFC NoSubs
7	5	26	146	8	83.7	-9.000	-9.000	-9.000	327.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	291.8	2.0	0	0.00	76.	1003.	2	NAD-SFC NoSubs
7	5	26	146	9	123.7	-9.000	-9.000	-9.000	488.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	294.2	2.0	0	0.00	69.	1002.	2	NAD-SFC NoSubs
7	5	26	146	10	155.1	-9.000	-9.000	-9.000	646.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.2	2.0	0	0.00	62.	1002.	2	NAD-SFC NoSubs
7	5	26	146	11	176.6	-9.000	-9.000	-9.000	779.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.9	2.0	0	0.00	56.	1001.	2	NAD-SFC NoSubs
7	5	26	146	12	186.9	-9.000	-9.000	-9.000	899.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.5	2.0	0	0.00	49.	1000.	2	NAD-SFC NoSubs
7	5	26	146	13	186.6	-9.000	-9.000	-9.000	1015.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.0	2.0	0	0.00	42.	999.	2	NAD-SFC NoSubs
7	5	26	146	14	175.4	-9.000	-9.000	-9.000	1127.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.1	2.0	0	0.00	38.	999.	2	NAD-SFC NoSubs
7	5	26	146	15	153.0	0.120	1.735	0.007	1217.	99.	-1.0	0.2940	0.52	0.19	0.50	7.0	15.0	302.9	2.0	0	0.00	35.	998.	2	NAD-SFC NoSubs
7	5	26	146	16	120.8	0.176	1.633	0.008	1284.	177.	-4.0	0.2940	0.52	0.20	1.00	17.0	15.0	303.4	2.0	0	0.00	33.	997.	2	NAD-SFC NoSubs
7	5	26	146	17	80.4	0.217	1.441	0.008	1326.	243.	-11.4	0.2940	0.52	0.22	1.50	24.0	15.0	303.5	2.0	0	0.00	33.	997.	2	NAD-SFC NoSubs
7	5	26	146	18	35.5	0.295	1.102	0.008	1342.	385.	-64.5	0.2720	0.52	0.30	2.60	307.0	15.0	303.1	2.0	0	0.00	41.	998.	3	NAD-SFC NoSubs
7	5	26	146	19	-25.7	0.474	-9.000	-9.000	-999.	783.	369.1	0.2160	0.52	0.53	5.10	282.0	15.0	298.9	2.0	0	0.00	57.	999.	3	NAD-SFC NoSubs
7	5	26	146	20	-47.6	0.468	-9.000	-9.000	-999.	768.	191.5	0.2160	0.52	1.00	5.10	270.0	15.0	295.1	2.0	0	0.00	65.	999.	3	NAD-SFC NoSubs
7	5	26	146	21	-45.4	0.443	-9.000	-9.000	-999.	709.	170.8	0.1750	0.52	1.00	5.10	268.0	15.0	293.2	2.0	0	0.00	67.	1000.	3	NAD-SFC NoSubs
7	5	26	146	22	-38.4	0.373	-9.000	-9.000	-999.	550.	120.2	0.2160	0.52	1.00	4.10	279.0	15.0	291.8	2.0	0	0.00	70.	1000.	3	NAD-SFC NoSubs
7	5	26	146	23	-15.7	0.196	-9.000	-9.000	-999.	234.	42.4	0.2720	0.52	1.00	2.10	307.0	15.0	291.0	2.0	0	0.00	73.	1001.	3	NAD-SFC NoSubs
7	5	26	146	24	-23.5	0.239	-9.000	-9.000	-999.	281.	52.2	0.2470	0.52	1.00	2.60	38.0	15.0	290.6	2.0	0	0.00	74.	1001.	3	NAD-SFC NoSubs
7	5	27	147	1	-16.4	0.200	-9.000	-9.000	-999.	215.	43.6	0.2940	0.52	1.00	2.10	28.0	15.0	290.0	2.0	0	0.00	77.	1002.	3	NAD-SFC NoSubs
7	5	27	147	2	-8.2	0.140	-9.000	-9.000	-999.	126.	29.8	0.2930	0.52	1.00	1.50	333.0	15.0	289.2	2.0	0	0.00	79.	1002.	3	NAD-SFC NoSubs
7	5	27	147	3	-14.2	0.183	-9.000	-9.000	-999.	188.	38.5	0.2160	0.52	1.00	2.10	294.0	15.0	288.5	2.0	0	0.00	81.	1002.	3	NAD-SFC NoSubs
7	5	27	147	4	-29.1	0.278	-9.000	-9.000	-999.	352.	66.0	0.2160	0.52	1.00	3.10	291.0	15.0	287.8	2.0	0	0.00	84.	1002.	3	NAD-SFC NoSubs
7	5	27	147	5	-22.3	0.231	-9.000	-9.000	-999.	267.	49.3	0.2160	0.52	1.00	2.60	288.0	15.0	287.2	2.0	0	0.00	86.	1003.	3	NAD-SFC NoSubs
7	5	27	147	6	-5.8	0.190	-9.000	-9.000	-999.	200.	107.1	0.2160	0.52	0.47	2.10	293.0	15.0	287.8	2.0	0	0.00	84.	1003.	3	NAD-SFC NoSubs
7	5	27	147	7	39.2	0.198	0.559	0.008	159.	211.	-17.7	0.2720	0.52	0.28	1.50	302.0	15.0	289.4	2.0	0	0.00	77.	1003.	3	NAD-SFC NoSubs
7	5	27	147	8	84.3	-9.000	-9.000	-9.000	298.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	290.8	2.0	0	0.00	72.	1003.	3	NAD-SFC NoSubs
7	5	27	147	9	123.6	-9.000	-9.000	-9.000	465.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	292.5	2.0	0	0.00	66.	1003.	3	NAD-SFC NoSubs
7	5	27	147	10	154.7	-9.000	-9.000	-9.000	630.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.4	2.0	0	0.00	59.	1002.	3	NAD-SFC NoSubs
7	5	27	147	11	175.9	-9.000	-9.000	-9.000	756.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.2	2.0	0	0.00	53.	1002.	3	NAD-SFC NoSubs
7	5	27	147	12	186.2	-9.000	-9.000	-9.000	868.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.0	2.0	0	0.00	48.	1001.	3	NAD-SFC NoSubs
7	5	27	147	13	185.8	0.121	1.713	0.010	966.	101.	-1.0	0.2720	0.52	0.19	0.50	328.0	15.0	299.2	2.0	0	0.00	45.	1000.	3	NAD-SFC NoSubs
7	5	27	147	14	174.6	0.184	1.720	0.010	1039.	189.	-3.2	0.2930	0.52	0.19	1.00	330.0	15.0	300.2	2.0	0	0.00	42.	999.	3	NAD-SFC NoSubs
7	5	27	147	15	152.5	0.233	1.674	0.010	1099.	270.	-7.4	0.2930	0.52	0.19	1.50	344.0	15.0	301.0	2.0	0	0.00	39.	999.	3	NAD-SFC NoSubs
7	5	27	147	16	120.5	0.285	1.569	0.010	1143.	366.	-17.1	0.2930	0.52	0.20	2.10	336.0	15.0	301.2	2.0	0	0.00	38.	998.	3	NAD-SFC NoSubs
7	5	27	147	17	80.4	0.366	1.383	0.009	1171.	531.	-54.2	0.2930	0.52	0.22	3.10	348.0	15.0	301.2	2.0	0	0.00	38.	998.	3	NAD-SFC NoSubs
7	5	27	147	18	34.8	0.300	1.049	0.009	1182.	396.	-69.0	0.2930	0.52	0.30	2.60	337.0	15.0	300.6	2.0	0	0.00	48.	998.	3	NAD-SFC NoSubs
7	5	27	147	19	-22.5	0.426	-9.000	-9.000	-999.	667.	305.5	0.2160	0.52	0.53	4.60	295.0	15.0	298.4	2.0	0	0.00	53.	999.	3	NAD-SFC NoSubs
7	5	27	147	20	-53.6	0.525	-9.000	-9.000	-999.	913.	240.7	0.2160	0.52	1.00	5.70	271.0	15.0	294.2	2.0	0	0.00	63.	999.	3	NAD-SFC NoSubs
7	5	27	147	21	-54.1	0.525	-9.000	-9.000	-999.	913.	238.9	0.2160	0.52	1.00	5.70	275.0	15.0	292.0	2.0	0	0.00	69.	1000.	3	NAD-SFC NoSubs
7	5	27	147	22	-45.8	0.443	-9.000	-9.000	-999.	714.	169.3	0.1750	0.52	1.00	5.10	266.0	15.0	290.8	2.0	0	0.00	74.	1000.	3	NAD-SFC NoSubs
7	5	27	147	23	-36.6	0.353	-9.000	-9.000	-999.	509.	107.1	0.1750	0.52	1.00	4.10	266.0	15.0	289.8	2.0	0	0.00	77.	1000.	3	NAD-SFC NoSubs
7	5	27	147	24	-37.4	0.373	-9.000	-9.000	-999.	546.	123.7	0.2160	0.52	1.00	4.10	270.0	15.0	289.0	2.0	0	0.00	81.	1000.	4	NAD-SFC NoSubs
7	5	28	148	1	-28.0	0.278	-9.000	-9.000	-999.	357.	68.8	0.2160	0.52	1.00	3.10	280.0	15.0	288.4	2.0	0	0.00	83.	1001.	4	NAD-SFC NoSubs
7	5	28	148	2	-14.0	0.183	-9.000	-9.000	-999.	193.	39.3	0.2160	0.52	1.00	2.10	284.0	15.0	288.1	2.0	0	0.00	82.	1001.	4	NAD-SFC NoSubs
7	5	28	148	3	-7.1	0.129	-9.000	-9.000	-999.	112.	26.7	0.2160	0.52	1.00	1.50	278.0	15.0	287.9	2.0	0	0.00	82.	1001.	3	NAD-SFC NoSubs
7	5	28	148	4	-1.6	0.083	-9.000	-9.000	-999.	57.	31.7	0.2720	0.52	1.00	0.50	318.0	15.0	287.8	2.0	0	0.00	82.	1001.	3	NAD-SFC NoSubs
7	5	28	148	5	-1.6	0.084	-9.000	-9.000	-999.	58.	31.9	0.2940	0.52	1.00	0.50	24.0	15.0	287.4	2.0	0	0.00	83.	1001.	3	NAD-SFC NoSubs
7	5	28	148	6	-1.9	0.094	-9.000	-9.000	-999.	70.	38.5	0.2930	0.52	0.46	1.00	348.0	15.0	287.4	2.0	0	0.00	83.	1002.	3	NAD-SFC NoSubs
7	5	28	148	7	39.3	0.198	0.591	0.006	187.	212.	-17.7	0.2720	0.52	0.28	1.50	324.0	15.0	288.8	2.0	0	0.00	75.	1001.	3	NAD-SFC NoSubs
7	5	28	148	8	84.4	0.103	0.995	0.008	417.	83.	-1.2	0.2160	0.52	0.22	0.50	286.0	15.0	290.1	2.0	0	0.00	71.	1001.	3	NAD-SFC NoSubs
7	5	28	148	9	123.6	-9.000	-9.000	-9.000	607.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	292.0	2.0	0	0.00	67.	1001.	3	NAD-SFC NoSubs
7	5	28	148	10	154.6	-9.000	-9.000	-9.000	729.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	293.8	2.0	0	0.00	64.	1001.	3	NAD-SFC NoSubs
7	5	28	148	11	176.1	-9.000	-9.000	-9.000	827.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.8	2.0	0	0.00	57.	1000.	2	NAD-SFC NoSubs
7	5	28	148	12	186.4	-9.000	-9.000	-9.000	921.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.6	2.0	0	0.00	50.	999.	2	NAD-SFC NoSubs
7	5	28	148	13	185.8	0.121	1.731	0.013	996.	101.	-1.0	0.2720	0.52	0.19	0.50	301.0	15.0	298.9	2.0	0	0.00	45.	998.	3	NAD-SFC NoSubs

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 7  5 28 148 14   174.7  0.120  1.725  0.013 1048.  100.     -1.0 0.2720  0.52  0.19  0.50  323.0  15.0  299.9  2.0    0  0.00   41.   998.    3 NAD-SFC NoSubs
 7  5 28 148 15   152.5  0.118  1.673  0.012 1093.   97.     -1.0 0.2720  0.52  0.19  0.50  318.0  15.0  300.6  2.0    0  0.00   39.   997.    3 NAD-SFC NoSubs
 7  5 28 148 16   120.7  0.173  1.563  0.012 1126.  173.     -3.8 0.2720  0.52  0.20  1.00  318.0  15.0  301.0  2.0    0  0.00   38.   997.    3 NAD-SFC NoSubs
 7  5 28 148 17    80.7  0.315  1.376  0.012 1148.  424.    -34.3 0.2720  0.52  0.22  2.60  308.0  15.0  301.0  2.0    0  0.00   37.   997.    3 NAD-SFC NoSubs
 7  5 28 148 18    34.8  0.367  1.042  0.012 1155.  533.   -126.3 0.2160  0.52  0.30  3.60  281.0  15.0  299.8  2.0    0  0.00   49.   998.    3 NAD-SFC NoSubs
 7  5 28 148 19   -25.7  0.474 -9.000 -9.000 -999.  783.    368.7 0.2160  0.52  0.53  5.10  272.0  15.0  296.2  2.0    0  0.00   60.   999.    3 NAD-SFC NoSubs
 7  5 28 148 20   -47.9  0.468 -9.000 -9.000 -999.  768.    190.1 0.2160  0.52  1.00  5.10  274.0  15.0  293.0  2.0    0  0.00   65.   999.    3 NAD-SFC NoSubs
 7  5 28 148 21   -45.8  0.443 -9.000 -9.000 -999.  709.    169.4 0.1750  0.52  1.00  5.10  269.0  15.0  291.0  2.0    0  0.00   68.  1000.    3 NAD-SFC NoSubs
 7  5 28 148 22   -38.7  0.373 -9.000 -9.000 -999.  550.    119.3 0.2160  0.52  1.00  4.10  273.0  15.0  289.8  2.0    0  0.00   70.  1000.    3 NAD-SFC NoSubs
 7  5 28 148 23   -29.0  0.278 -9.000 -9.000 -999.  357.     66.3 0.2160  0.52  1.00  3.10  282.0  15.0  288.9  2.0    0  0.00   71.  1001.    3 NAD-SFC NoSubs
 7  5 28 148 24    -7.9  0.137 -9.000 -9.000 -999.  136.     28.9 0.2720  0.52  1.00  1.50  306.0  15.0  288.5  2.0    0  0.00   71.  1001.    3 NAD-SFC NoSubs
 7  5 29 149  1    -8.2  0.140 -9.000 -9.000 -999.  125.     29.7 0.2930  0.52  1.00  1.50  346.0  15.0  288.2  2.0    0  0.00   72.  1001.    3 NAD-SFC NoSubs
 7  5 29 149  2    -8.2  0.140 -9.000 -9.000 -999.  126.     29.7 0.2940  0.52  1.00  1.50   20.0  15.0  287.8  2.0    0  0.00   74.  1002.    3 NAD-SFC NoSubs
 7  5 29 149  3    -1.6  0.082 -9.000 -9.000 -999.   57.     31.6 0.2470  0.52  1.00  0.50   40.0  15.0  287.4  2.0    0  0.00   75.  1002.    3 NAD-SFC NoSubs
 7  5 29 149  4  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00    0.0  15.0  287.2  2.0    0  0.00   76.  1002.    3 NAD-SFC NoSubs
 7  5 29 149  5    -1.5  0.080 -9.000 -9.000 -999.   54.     31.1 0.1950  0.52  1.00  0.50  224.0  15.0  287.1  2.0    0  0.00   76.  1003.    3 NAD-SFC NoSubs
 7  5 29 149  6    -1.6  0.084 -9.000 -9.000 -999.   59.     33.6 0.1950  0.52  0.46  1.00  230.0  15.0  287.1  2.0    0  0.00   76.  1003.    3 NAD-SFC NoSubs
 7  5 29 149  7    39.7  0.143  0.547  0.009  148.  130.     -6.6 0.2160  0.52  0.28  1.00  285.0  15.0  289.2  2.0    0  0.00   69.  1003.    3 NAD-SFC NoSubs
 7  5 29 149  8    84.8 -9.000 -9.000 -9.000  295. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0  291.0  2.0    0  0.00   66.  1003.    3 NAD-SFC NoSubs
 7  5 29 149  9   124.0 -9.000 -9.000 -9.000  472. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0  292.8  2.0    0  0.00   62.  1002.    3 NAD-SFC NoSubs
 7  5 29 149 10   155.1 -9.000 -9.000 -9.000  644. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  294.9  2.0    0  0.00   57.  1002.    3 NAD-SFC NoSubs
 7  5 29 149 11   176.7 -9.000 -9.000 -9.000  790. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  296.9  2.0    0  0.00   52.  1001.    2 NAD-SFC NoSubs
 7  5 29 149 12   187.0 -9.000 -9.000 -9.000  920. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  298.8  2.0    0  0.00   47.  1000.    2 NAD-SFC NoSubs
 7  5 29 149 13   186.9  0.115  1.744  0.012 1014.   94.     -1.0 0.2160  0.52  0.19  0.50  299.0  15.0  300.4  2.0    0  0.00   42.   999.    2 NAD-SFC NoSubs
 7  5 29 149 14   175.8  0.120  1.746  0.012 1080.  100.     -1.0 0.2720  0.52  0.19  0.50  314.0  15.0  301.5  2.0    0  0.00   38.   999.    2 NAD-SFC NoSubs
 7  5 29 149 15   153.5  0.118  1.696  0.012 1135.   97.     -1.0 0.2720  0.52  0.19  0.50  324.0  15.0  302.2  2.0    0  0.00   36.   999.    2 NAD-SFC NoSubs
 7  5 29 149 16   121.5  0.176  1.588  0.012 1176.  177.     -4.0 0.2930  0.52  0.20  1.00  342.0  15.0  302.8  2.0    0  0.00   36.   999.    2 NAD-SFC NoSubs
 7  5 29 149 17    81.3  0.274  1.400  0.013 1204.  345.    -22.6 0.2930  0.52  0.22  2.10  353.0  15.0  303.0  2.0    0  0.00   36.   999.    2 NAD-SFC NoSubs
 7  5 29 149 18    36.4  0.341  1.074  0.013 1213.  478.    -97.3 0.2720  0.52  0.29  3.10  301.0  15.0  302.1  2.0    0  0.00   47.  1000.    3 NAD-SFC NoSubs
 7  5 29 149 19   -23.8  0.475 -9.000 -9.000 -999.  785.    401.0 0.2160  0.52  0.52  5.10  278.0  15.0  297.5  2.0    0  0.00   61.  1001.    3 NAD-SFC NoSubs
 7  5 29 149 20   -43.0  0.420 -9.000 -9.000 -999.  656.    154.0 0.2160  0.52  1.00  4.60  286.0  15.0  294.2  2.0    0  0.00   64.  1001.    3 NAD-SFC NoSubs
 7  5 29 149 21   -43.3  0.420 -9.000 -9.000 -999.  653.    152.9 0.2160  0.52  1.00  4.60  276.0  15.0  292.2  2.0    0  0.00   65.  1002.    3 NAD-SFC NoSubs
 7  5 29 149 22   -43.5  0.420 -9.000 -9.000 -999.  653.    152.1 0.2160  0.52  1.00  4.60  279.0  15.0  290.8  2.0    0  0.00   66.  1002.    3 NAD-SFC NoSubs
 7  5 29 149 23   -24.6  0.246 -9.000 -9.000 -999.  317.     54.1 0.2720  0.52  1.00  2.60  305.0  15.0  289.8  2.0    0  0.00   67.  1003.    3 NAD-SFC NoSubs
 7  5 29 149 24   -16.4  0.200 -9.000 -9.000 -999.  216.     43.6 0.2940  0.52  1.00  2.10    7.0  15.0  289.5  2.0    0  0.00   66.  1003.    3 NAD-SFC NoSubs
 7  5 30 150  1   -25.7  0.252 -9.000 -9.000 -999.  303.     55.7 0.2940  0.52  1.00  2.60   16.0  15.0  288.9  2.0    0  0.00   68.  1004.    3 NAD-SFC NoSubs
 7  5 30 150  2  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00    0.0  15.0  288.2  2.0    0  0.00   70.  1004.    3 NAD-SFC NoSubs
 7  5 30 150  3   -16.5  0.200 -9.000 -9.000 -999.  214.     43.4 0.2930  0.52  1.00  2.10  360.0  15.0  287.8  2.0    0  0.00   72.  1004.    3 NAD-SFC NoSubs
 7  5 30 150  4    -4.0  0.102 -9.000 -9.000 -999.   82.     23.6 0.2930  0.52  1.00  1.00  339.0  15.0  287.2  2.0    0  0.00   73.  1005.    3 NAD-SFC NoSubs
 7  5 30 150  5    -3.6  0.096 -9.000 -9.000 -999.   72.     22.4 0.2160  0.52  1.00  1.00  291.0  15.0  286.9  2.0    0  0.00   73.  1005.    3 NAD-SFC NoSubs
 7  5 30 150  6    -1.6  0.087 -9.000 -9.000 -999.   61.     35.8 0.2160  0.52  0.46  1.00  283.0  15.0  287.1  2.0    0  0.00   73.  1005.    3 NAD-SFC NoSubs
 7  5 30 150  7    39.8  0.189  0.548  0.009  148.  197.    -15.1 0.2160  0.52  0.27  1.50  295.0  15.0  289.0  2.0    0  0.00   64.  1006.    3 NAD-SFC NoSubs
 7  5 30 150  8    85.0 -9.000 -9.000 -9.000  268. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0  291.0  2.0    0  0.00   59.  1006.    3 NAD-SFC NoSubs
 7  5 30 150  9   124.1 -9.000 -9.000 -9.000  407. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0  292.8  2.0    0  0.00   56.  1005.    3 NAD-SFC NoSubs
 7  5 30 150 10   155.2 -9.000 -9.000 -9.000  582. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  294.8  2.0    0  0.00   53.  1005.    2 NAD-SFC NoSubs
 7  5 30 150 11   176.7 -9.000 -9.000 -9.000  718. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  296.8  2.0    0  0.00   50.  1004.    2 NAD-SFC NoSubs
 7  5 30 150 12   187.1 -9.000 -9.000 -9.000  827. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  298.6  2.0    0  0.00   45.  1003.    2 NAD-SFC NoSubs
 7  5 30 150 13   186.9 -9.000 -9.000 -9.000  924. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  300.1  2.0    0  0.00   40.  1002.    2 NAD-SFC NoSubs
 7  5 30 150 14   175.8  0.120  1.703  0.011 1006.  100.     -1.0 0.2720  0.52  0.19  0.50  315.0  15.0  301.1  2.0    0  0.00   37.  1002.    2 NAD-SFC NoSubs
 7  5 30 150 15   153.5  0.178  1.663  0.011 1071.  180.     -3.3 0.2720  0.52  0.19  1.00  326.0  15.0  301.8  2.0    0  0.00   36.  1001.    2 NAD-SFC NoSubs
 7  5 30 150 16   121.7  0.285  1.562  0.011 1120.  366.    -17.1 0.2930  0.52  0.20  2.10  337.0  15.0  302.5  2.0    0  0.00   34.  1001.    2 NAD-SFC NoSubs
 7  5 30 150 17    82.3  0.315  1.384  0.011 1152.  424.    -34.0 0.2720  0.52  0.22  2.60  326.0  15.0  302.6  2.0    0  0.00   35.  1001.    3 NAD-SFC NoSubs
 7  5 30 150 18    36.6  0.324  1.060  0.011 1163.  443.    -83.4 0.2160  0.52  0.29  3.10  296.0  15.0  301.6  2.0    0  0.00   46.  1001.    3 NAD-SFC NoSubs
 7  5 30 150 19   -22.7  0.475 -9.000 -9.000 -999.  787.    423.1 0.2160  0.52  0.52  5.10  285.0  15.0  297.8  2.0    0  0.00   58.  1002.    3 NAD-SFC NoSubs
 7  5 30 150 20   -43.0  0.420 -9.000 -9.000 -999.  656.    154.1 0.2160  0.52  1.00  4.60  282.0  15.0  294.4  2.0    0  0.00   63.  1002.    3 NAD-SFC NoSubs
 7  5 30 150 21   -48.3  0.468 -9.000 -9.000 -999.  767.    189.6 0.2160  0.52  1.00  5.10  282.0  15.0  292.2  2.0    0  0.00   65.  1003.    3 NAD-SFC NoSubs
 7  5 30 150 22   -43.6  0.420 -9.000 -9.000 -999.  655.    152.1 0.2160  0.52  1.00  4.60  280.0  15.0  290.8  2.0    0  0.00   67.  1003.    3 NAD-SFC NoSubs
 7  5 30 150 23   -28.9  0.278 -9.000 -9.000 -999.  366.     66.5 0.2160  0.52  1.00  3.10  288.0  15.0  289.8  2.0    0  0.00   70.  1003.    3 NAD-SFC NoSubs
 7  5 30 150 24    -8.2  0.140 -9.000 -9.000 -999.  141.     29.8 0.2930  0.52  1.00  1.50  343.0  15.0  289.2  2.0    0  0.00   71.  1004.    3 NAD-SFC NoSubs
 7  5 31 151  1    -4.0  0.102 -9.000 -9.000 -999.   78.     23.7 0.2940  0.52  1.00  1.00   13.0  15.0  288.8  2.0    0  0.00   72.  1004.    3 NAD-SFC NoSubs
 7  5 31 151  2    -4.0  0.102 -9.000 -9.000 -999.   78.     23.7 0.2930  0.52  1.00  1.00  332.0  15.0  288.1  2.0    0  0.00   74.  1004.    3 NAD-SFC NoSubs
 7  5 31 151  3    -3.6  0.096 -9.000 -9.000 -999.   72.     22.4 0.2160  0.52  1.00  1.00  292.0  15.0  287.6  2.0    0  0.00   74.  1004.    3 NAD-SFC NoSubs
 7  5 31 151  4    -7.2  0.129 -9.000 -9.000 -999.  111.     26.6 0.2160  0.52  1.00  1.50  281.0  15.0  287.2  2.0    0  0.00   74.  1005.    3 NAD-SFC NoSubs
 7  5 31 151  5    -7.2  0.129 -9.000 -9.000 -999.  111.     26.6 0.2160  0.52  1.00  1.50  294.0  15.0  286.9  2.0    0  0.00   73.  1005.    3 NAD-SFC NoSubs
 7  5 31 151  6    -3.7  0.143 -9.000 -9.000 -999.  130.     71.5 0.2720  0.52  0.46  1.50  307.0  15.0  287.0  2.0    0  0.00   73.  1005.    3 NAD-SFC NoSubs
 7  5 31 151  7    40.0  0.098  0.571  0.008  166.   74.     -2.1 0.2720  0.52  0.27  0.50  326.0  15.0  288.8  2.0    0  0.00   69.  1005.    3 NAD-SFC NoSubs
 7  5 31 151  8    85.0 -9.000 -9.000 -9.000  303. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0  290.5  2.0    0  0.00   64.  1005.    3 NAD-SFC NoSubs
 7  5 31 151  9   124.1 -9.000 -9.000 -9.000  467. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0  292.2  2.0    0  0.00   60.  1004.    3 NAD-SFC NoSubs
 7  5 31 151 10   155.0 -9.000 -9.000 -9.000  659. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  293.9  2.0    0  0.00   57.  1004.    3 NAD-SFC NoSubs
 7  5 31 151 11   176.5 -9.000 -9.000 -9.000  766. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  295.8  2.0    0  0.00   53.  1003.    2 NAD-SFC NoSubs
 7  5 31 151 12   186.9 -9.000 -9.000 -9.000  866. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  297.6  2.0    0  0.00   49.  1002.    2 NAD-SFC NoSubs
 7  5 31 151 13   186.6 -9.000 -9.000 -9.000  956. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  299.0  2.0    0  0.00   46.  1001.    2 NAD-SFC NoSubs
 7  5 31 151 14   175.6  0.184  1.720  0.011 1036.  189.     -3.2 0.2930  0.52  0.19  1.00  345.0  15.0  300.1  2.0    0  0.00   43.  1000.    2 NAD-SFC NoSubs
 7  5 31 151 15   153.3 -9.000 -9.000 -9.000 1101. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  300.8  2.0    0  0.00   41.   999.    2 NAD-SFC NoSubs
 7  5 31 151 16   121.4  0.286  1.576  0.011 1150.  366.    -17.1 0.2940  0.52  0.20  2.10   13.0  15.0  301.2  2.0    0  0.00   40.   999.    2 NAD-SFC NoSubs
 7  5 31 151 17    81.2  0.320  1.391  0.011 1181.  435.    -36.0 0.2940  0.52  0.22  2.60   22.0  15.0  301.2  2.0    0  0.00   40.   999.    2 NAD-SFC NoSubs
 7  5 31 151 18    36.8  0.200  1.073  0.012 1195.  223.    -19.4 0.2940  0.52  0.29  1.50   14.0  15.0  301.2  2.0    0  0.00   46.   999.    3 NAD-SFC NoSubs
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 7  5 31 151 19  -15.6  0.380 -9.000 -9.000 -999.  562.    313.3  0.2160  0.52  0.51   4.10  294.0  15.0  299.8   2.0    0   0.00   48.  1000.     3 NAD-SFC NoSubs
 7  5 31 151 20  -47.7  0.468 -9.000 -9.000 -999.  767.    191.2  0.2160  0.52  1.00   5.10  274.0  15.0  294.6   2.0    0   0.00   59.  1000.     3 NAD-SFC NoSubs
 7  5 31 151 21  -48.2  0.468 -9.000 -9.000 -999.  768.    189.2  0.2160  0.52  1.00   5.10  271.0  15.0  291.8   2.0    0   0.00   62.  1000.     3 NAD-SFC NoSubs
 7  5 31 151 22  -43.5  0.420 -9.000 -9.000 -999.  655.    151.8  0.2160  0.52  1.00   4.60  275.0  15.0  290.2   2.0    0   0.00   66.  1001.     3 NAD-SFC NoSubs
 7  5 31 151 23  -38.8  0.373 -9.000 -9.000 -999.  548.    119.1  0.2160  0.52  1.00   4.10  277.0  15.0  289.2   2.0    0   0.00   68.  1001.     3 NAD-SFC NoSubs
 7  5 31 151 24  -29.0  0.278 -9.000 -9.000 -999.  357.     66.2  0.2160  0.52  1.00   3.10  287.0  15.0  288.5   2.0    0   0.00   70.  1001.     3 NAD-SFC NoSubs
 7  6  1 152  1   -7.9  0.137 -9.000 -9.000 -999.  136.     28.9  0.2720  0.52  1.00   1.50  324.0  15.0  288.0   2.0    0   0.00   70.  1001.     3 NAD-SFC NoSubs
 7  6  1 152  2   -1.6  0.084 -9.000 -9.000 -999.   59.     31.9  0.2930  0.52  1.00   0.50  355.0  15.0  287.6   2.0    0   0.00   71.  1001.     3 NAD-SFC NoSubs
 7  6  1 152  3   -1.6  0.084 -9.000 -9.000 -999.   58.     31.9  0.2930  0.52  1.00   0.50  348.0  15.0  287.2   2.0    0   0.00   71.  1001.     3 NAD-SFC NoSubs
 7  6  1 152  4   -1.5  0.081 -9.000 -9.000 -999.   56.     31.6  0.2160  0.52  1.00   0.50  287.0  15.0  287.0   2.0    0   0.00   71.  1001.     2 NAD-SFC NoSubs
 7  6  1 152  5   -1.5  0.082 -9.000 -9.000 -999.   56.     31.6  0.2160  0.52  1.00   0.50  285.0  15.0  286.8   2.0    0   0.00   71.  1002.     2 NAD-SFC NoSubs
 7  6  1 152  6   -0.5  0.051 -9.000 -9.000 -999.   28.     22.9  0.2160  0.52  0.46   0.50  283.0  15.0  286.8   2.0    0   0.00   70.  1002.     2 NAD-SFC NoSubs
 7  6  1 152  7   39.1  0.098  0.542  0.009  145.   73.     -2.1  0.2720  0.52  0.27   0.50  302.0  15.0  288.8   2.0    0   0.00   61.  1002.     2 NAD-SFC NoSubs
 7  6  1 152  8   84.5 -9.000 -9.000 -9.000  280. -999. -99999.0  0.2235  0.52  0.22   0.00    0.0  15.0  290.8   2.0    0   0.00   56.  1002.     2 NAD-SFC NoSubs
 7  6  1 152  9  124.1 -9.000 -9.000 -9.000  449. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  292.6   2.0    0   0.00   53.  1001.     2 NAD-SFC NoSubs
 7  6  1 152 10  155.3 -9.000 -9.000 -9.000  612. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  294.5   2.0    0   0.00   52.  1001.     2 NAD-SFC NoSubs
 7  6  1 152 11  176.9 -9.000 -9.000 -9.000  743. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  296.4   2.0    0   0.00   49.  1000.     2 NAD-SFC NoSubs
 7  6  1 152 12  187.2 -9.000 -9.000 -9.000  856. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  298.2   2.0    0   0.00   45.   999.     2 NAD-SFC NoSubs
 7  6  1 152 13  187.2 -9.000 -9.000 -9.000  957. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  299.9   2.0    0   0.00   41.   998.     2 NAD-SFC NoSubs
 7  6  1 152 14  176.3  0.122  1.714  0.015 1019.  102.     -1.0  0.2930  0.52  0.19   0.50  340.0  15.0  301.2   2.0    0   0.00   36.   998.     2 NAD-SFC NoSubs
 7  6  1 152 15  154.2  0.181  1.665  0.015 1066.  185.     -3.4  0.2940  0.52  0.19   1.00    5.0  15.0  302.1   2.0    0   0.00   33.   997.     2 NAD-SFC NoSubs
 7  6  1 152 16  122.3 -9.000 -9.000 -9.000 1102. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  302.6   2.0    0   0.00   31.   997.     2 NAD-SFC NoSubs
 7  6  1 152 17   82.3  0.275  1.375  0.015 1125.  345.    -22.4  0.2930  0.52  0.22   2.10  348.0  15.0  302.8   2.0    0   0.00   32.   997.     2 NAD-SFC NoSubs
 7  6  1 152 18   36.4  0.296  1.050  0.015 1133.  386.    -63.3  0.2720  0.52  0.29   2.60  321.0  15.0  301.9   2.0    0   0.00   41.   998.     2 NAD-SFC NoSubs
 7  6  1 152 19  -23.2  0.475 -9.000 -9.000 -999.  786.    412.4  0.2160  0.52  0.51   5.10  288.0  15.0  298.8   2.0    0   0.00   50.   999.     2 NAD-SFC NoSubs
 7  6  1 152 20  -46.3  0.443 -9.000 -9.000 -999.  709.    167.0  0.1750  0.52  1.00   5.10  267.0  15.0  294.5   2.0    0   0.00   62.   999.     2 NAD-SFC NoSubs
 7  6  1 152 21  -49.3  0.467 -9.000 -9.000 -999.  766.    184.5  0.2160  0.52  1.00   5.10  270.0  15.0  292.2   2.0    0   0.00   66.  1000.     2 NAD-SFC NoSubs
 7  6  1 152 22  -42.2  0.398 -9.000 -9.000 -999.  606.    133.0  0.1750  0.52  1.00   4.60  266.0  15.0  290.9   2.0    0   0.00   69.  1000.     2 NAD-SFC NoSubs
 7  6  1 152 23  -34.7  0.325 -9.000 -9.000 -999.  448.     88.5  0.2160  0.52  1.00   3.60  284.0  15.0  289.8   2.0    0   0.00   74.  1001.     2 NAD-SFC NoSubs
 7  6  1 152 24  -29.7  0.278 -9.000 -9.000 -999.  353.     64.5  0.2160  0.52  1.00   3.10  294.0  15.0  289.0   2.0    0   0.00   77.  1001.     2 NAD-SFC NoSubs
 7  6  2 153  1  -16.0  0.195 -9.000 -9.000 -999.  210.     41.5  0.2720  0.52  1.00   2.10  311.0  15.0  288.4   2.0    0   0.00   80.  1001.     2 NAD-SFC NoSubs
 7  6  2 153  2   -8.0  0.137 -9.000 -9.000 -999.  122.     28.5  0.2720  0.52  1.00   1.50  318.0  15.0  287.9   2.0    0   0.00   82.  1002.     2 NAD-SFC NoSubs
 7  6  2 153  3   -3.6  0.097 -9.000 -9.000 -999.   73.     22.4  0.2160  0.52  1.00   1.00  290.0  15.0  287.8   2.0    0   0.00   82.  1002.     2 NAD-SFC NoSubs
 7  6  2 153  4   -7.3  0.129 -9.000 -9.000 -999.  111.     26.3  0.2160  0.52  1.00   1.50  272.0  15.0  287.5   2.0    0   0.00   81.  1002.     2 NAD-SFC NoSubs
 7  6  2 153  5   -7.3  0.129 -9.000 -9.000 -999.  111.     26.3  0.2160  0.52  1.00   1.50  275.0  15.0  287.4   2.0    0   0.00   80.  1002.     2 NAD-SFC NoSubs
 7  6  2 153  6   -1.9  0.092 -9.000 -9.000 -999.   67.     35.9  0.2720  0.52  0.46   1.00  300.0  15.0  287.2   2.0    0   0.00   81.  1002.     2 NAD-SFC NoSubs
 7  6  2 153  7   39.3  0.150  0.548  0.009  150.  140.     -7.7  0.2720  0.52  0.27   1.00  323.0  15.0  289.1   2.0    0   0.00   73.  1002.     2 NAD-SFC NoSubs
 7  6  2 153  8   84.7 -9.000 -9.000 -9.000  334. -999. -99999.0  0.2235  0.52  0.22   0.00    0.0  15.0  290.8   2.0    0   0.00   72.  1002.     2 NAD-SFC NoSubs
 7  6  2 153  9  124.1 -9.000 -9.000 -9.000  481. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  292.4   2.0    0   0.00   68.  1002.     2 NAD-SFC NoSubs
 7  6  2 153 10  155.3 -9.000 -9.000 -9.000  604. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  294.2   2.0    0   0.00   63.  1001.     2 NAD-SFC NoSubs
 7  6  2 153 11  177.0 -9.000 -9.000 -9.000  729. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  296.5   2.0    0   0.00   56.  1001.     2 NAD-SFC NoSubs
 7  6  2 153 12  187.4 -9.000 -9.000 -9.000  848. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  298.4   2.0    0   0.00   50.  1000.     2 NAD-SFC NoSubs
 7  6  2 153 13  187.5 -9.000 -9.000 -9.000  954. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  300.2   2.0    0   0.00   44.   999.     2 NAD-SFC NoSubs
 7  6  2 153 14  176.7  0.122  1.712  0.015 1012.  102.     -1.0  0.2930  0.52  0.19   0.50  341.0  15.0  301.6   2.0    0   0.00   39.   998.     2 NAD-SFC NoSubs
 7  6  2 153 15  154.6 -9.000 -9.000 -9.000 1054. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  302.5   2.0    0   0.00   36.   998.     2 NAD-SFC NoSubs
 7  6  2 153 16  122.8  0.286  1.552  0.015 1085.  366.    -16.9  0.2940  0.52  0.20   2.10   12.0  15.0  302.9   2.0    0   0.00   35.   998.     2 NAD-SFC NoSubs
 7  6  2 153 17   82.7  0.367  1.369  0.015 1106.  533.    -53.2  0.2940  0.52  0.22   3.10   17.0  15.0  302.8   2.0    0   0.00   38.   998.     2 NAD-SFC NoSubs
 7  6  2 153 18   37.0  0.301  1.049  0.015 1114.  399.    -65.9  0.2940  0.52  0.29   2.60   24.0  15.0  302.2   2.0    0   0.00   47.   999.     2 NAD-SFC NoSubs
 7  6  2 153 19   -8.0  0.253 -9.000 -9.000 -999.  307.    180.7  0.2720  0.52  0.51   2.60  323.0  15.0  301.6   2.0    0   0.00   47.   999.     3 NAD-SFC NoSubs
 7  6  2 153 20  -48.5  0.468 -9.000 -9.000 -999.  767.    188.1  0.2160  0.52  1.00   5.10  284.0  15.0  297.6   2.0    0   0.00   59.  1000.     2 NAD-SFC NoSubs
 7  6  2 153 21  -49.1  0.467 -9.000 -9.000 -999.  767.    185.7  0.2160  0.52  1.00   5.10  275.0  15.0  293.9   2.0    0   0.00   66.  1000.     2 NAD-SFC NoSubs
 7  6  2 153 22  -39.3  0.372 -9.000 -9.000 -999.  552.    117.3  0.2160  0.52  1.00   4.10  271.0  15.0  292.5   2.0    0   0.00   68.  1001.     2 NAD-SFC NoSubs
 7  6  2 153 23  -33.6  0.325 -9.000 -9.000 -999.  447.     91.6  0.2160  0.52  1.00   3.60  275.0  15.0  291.6   2.0    0   0.00   70.  1001.     3 NAD-SFC NoSubs
 7  6  2 153 24  -22.1  0.231 -9.000 -9.000 -999.  270.     49.6  0.2160  0.52  1.00   2.60  284.0  15.0  291.0   2.0    0   0.00   72.  1001.     3 NAD-SFC NoSubs
 7  6  3 154  1   -7.1  0.129 -9.000 -9.000 -999.  116.     26.8  0.2160  0.52  1.00   1.50  288.0  15.0  290.9   2.0    0   0.00   72.  1002.     3 NAD-SFC NoSubs
 7  6  3 154  2   -3.5  0.096 -9.000 -9.000 -999.   72.     22.4  0.2160  0.52  1.00   1.00  277.0  15.0  290.8   2.0    0   0.00   74.  1002.     3 NAD-SFC NoSubs
 7  6  3 154  3   -1.6  0.082 -9.000 -9.000 -999.   57.     31.6  0.2720  0.52  1.00   0.50  313.0  15.0  290.6   2.0    0   0.00   76.  1003.     3 NAD-SFC NoSubs
 7  6  3 154  4   -1.6  0.083 -9.000 -9.000 -999.   58.     31.8  0.2930  0.52  1.00   0.50  352.0  15.0  290.2   2.0    0   0.00   79.  1003.     3 NAD-SFC NoSubs
 7  6  3 154  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  289.8   2.0    0   0.00   82.  1004.     3 NAD-SFC NoSubs
 7  6  3 154  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.45   0.00    0.0  15.0  289.8   2.0    0   0.00   85.  1004.     3 NAD-SFC NoSubs
 7  6  3 154  7   41.2  0.154  0.635  0.009  223.  145.     -7.9  0.2940  0.52  0.27   1.00    3.0  15.0  291.2   2.0    0   0.00   78.  1004.     3 NAD-SFC NoSubs
 7  6  3 154  8   86.0 -9.000 -9.000 -9.000  329. -999. -99999.0  0.2235  0.52  0.22   0.00    0.0  15.0  292.6   2.0    0   0.00   72.  1004.     3 NAD-SFC NoSubs
 7  6  3 154  9  124.7 -9.000 -9.000 -9.000  466. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  294.0   2.0    0   0.00   67.  1004.     2 NAD-SFC NoSubs
 7  6  3 154 10  156.1 -9.000 -9.000 -9.000  624. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  296.1   2.0    0   0.00   60.  1003.     2 NAD-SFC NoSubs
 7  6  3 154 11  177.7 -9.000 -9.000 -9.000  786. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  298.0   2.0    0   0.00   54.  1003.     2 NAD-SFC NoSubs
 7  6  3 154 12  188.1 -9.000 -9.000 -9.000  934. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  299.8   2.0    0   0.00   49.  1002.     2 NAD-SFC NoSubs
 7  6  3 154 13  187.8 -9.000 -9.000 -9.000 1022. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  300.8   2.0    0   0.00   46.  1001.     2 NAD-SFC NoSubs
 7  6  3 154 14  176.8  0.120  1.751  0.012 1085.  100.     -1.0  0.2720  0.52  0.19   0.50  315.0  15.0  301.6   2.0    0   0.00   43.  1000.     2 NAD-SFC NoSubs
 7  6  3 154 15  154.7  0.181  1.701  0.012 1137.  185.     -3.4  0.2930  0.52  0.19   1.00  355.0  15.0  302.2   2.0    0   0.00   41.  1000.     2 NAD-SFC NoSubs
 7  6  3 154 16  122.8  0.228  1.593  0.012 1176.  261.     -8.6  0.2940  0.52  0.20   1.50   15.0  15.0  302.4   2.0    0   0.00   41.  1000.     2 NAD-SFC NoSubs
 7  6  3 154 17   82.7  0.321  1.406  0.012 1201.  436.    -35.6  0.2940  0.52  0.22   2.60   26.0  15.0  302.0   2.0    0   0.00   49.  1000.     2 NAD-SFC NoSubs
 7  6  3 154 18   36.9  0.334  1.078  0.012 1211.  464.    -90.2  0.2470  0.52  0.29   3.10   31.0  15.0  301.2   2.0    0   0.00   53.  1000.     2 NAD-SFC NoSubs
 7  6  3 154 19   -8.4  0.259 -9.000 -9.000 -999.  319.    183.9  0.2940  0.52  0.50   2.60   18.0  15.0  300.4   2.0    0   0.00   56.  1001.     3 NAD-SFC NoSubs
 7  6  3 154 20  -15.5  0.196 -9.000 -9.000 -999.  209.     43.1  0.2720  0.52  1.00   2.10  309.0  15.0  299.5   2.0    0   0.00   59.  1001.     3 NAD-SFC NoSubs
 7  6  3 154 21  -47.5  0.468 -9.000 -9.000 -999.  768.    192.6  0.2160  0.52  1.00   5.10  276.0  15.0  296.8   2.0    0   0.00   65.  1002.     3 NAD-SFC NoSubs
 7  6  3 154 22  -43.0  0.420 -9.000 -9.000 -999.  656.    154.1  0.2160  0.52  1.00   4.60  285.0  15.0  294.4   2.0    0   0.00   65.  1002.     3 NAD-SFC NoSubs
 7  6  3 154 23  -38.2  0.373 -9.000 -9.000 -999.  548.    120.9  0.2160  0.52  1.00   4.10  288.0  15.0  293.5   2.0    0   0.00   68.  1002.     3 NAD-SFC NoSubs
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7	6	3	154	24	-28.6	0.278	-9.000	-9.000	-999.	357.	67.3	0.2160	0.52	1.00	3.10	297.0	15.0	293.2	2.0	0	0.00	71.	1002.	3	NAD-SFC	NoSubs
7	6	4	155	1	-30.5	0.297	-9.000	-9.000	-999.	388.	76.6	0.2720	0.52	1.00	3.10	329.0	15.0	293.2	2.0	0	0.00	73.	1003.	3	NAD-SFC	NoSubs
7	6	4	155	2	-25.4	0.252	-9.000	-9.000	-999.	304.	56.1	0.2930	0.52	1.00	2.60	349.0	15.0	292.9	2.0	0	0.00	76.	1003.	3	NAD-SFC	NoSubs
7	6	4	155	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	292.4	2.0	0	0.00	77.	1003.	3	NAD-SFC	NoSubs
7	6	4	155	4	-8.2	0.140	-9.000	-9.000	-999.	126.	30.0	0.2940	0.52	1.00	1.50	7.0	15.0	291.9	2.0	0	0.00	78.	1004.	3	NAD-SFC	NoSubs
7	6	4	155	5	-8.2	0.140	-9.000	-9.000	-999.	126.	29.9	0.2940	0.52	1.00	1.50	10.0	15.0	291.4	2.0	0	0.00	79.	1004.	3	NAD-SFC	NoSubs
7	6	4	155	6	-0.4	0.047	-9.000	-9.000	-999.	31.	26.0	0.2930	0.52	0.45	0.50	349.0	15.0	291.1	2.0	0	0.00	80.	1005.	3	NAD-SFC	NoSubs
7	6	4	155	7	41.3	0.154	0.643	0.008	231.	145.	-7.9	0.2930	0.52	0.27	1.00	346.0	15.0	291.1	2.0	0	0.00	78.	1005.	3	NAD-SFC	NoSubs
7	6	4	155	8	85.8	0.168	0.928	0.007	334.	165.	-4.9	0.2930	0.52	0.22	1.00	360.0	15.0	291.6	2.0	0	0.00	72.	1005.	3	NAD-SFC	NoSubs
7	6	4	155	9	124.8	-9.000	-9.000	-9.000	483.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	293.0	2.0	0	0.00	67.	1004.	3	NAD-SFC	NoSubs
7	6	4	155	10	155.6	-9.000	-9.000	-9.000	658.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.5	2.0	0	0.00	61.	1004.	2	NAD-SFC	NoSubs
7	6	4	155	11	177.1	-9.000	-9.000	-9.000	842.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.2	2.0	0	0.00	55.	1004.	2	NAD-SFC	NoSubs
7	6	4	155	12	187.4	-9.000	-9.000	-9.000	990.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.8	2.0	0	0.00	50.	1003.	2	NAD-SFC	NoSubs
7	6	4	155	13	187.4	-9.000	-9.000	-9.000	1071.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.4	2.0	0	0.00	46.	1002.	2	NAD-SFC	NoSubs
7	6	4	155	14	176.5	-9.000	-9.000	-9.000	1143.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.6	2.0	0	0.00	42.	1001.	2	NAD-SFC	NoSubs
7	6	4	155	15	154.6	0.181	1.733	0.011	1203.	185.	-3.4	0.2940	0.52	0.19	1.00	12.0	15.0	301.4	2.0	0	0.00	40.	1000.	2	NAD-SFC	NoSubs
7	6	4	155	16	122.7	0.285	1.624	0.012	1247.	366.	-16.9	0.2940	0.52	0.20	2.10	9.0	15.0	301.5	2.0	0	0.00	39.	1000.	2	NAD-SFC	NoSubs
7	6	4	155	17	82.6	0.367	1.435	0.012	1276.	533.	-53.3	0.2940	0.52	0.22	3.10	22.0	15.0	301.2	2.0	0	0.00	41.	1000.	2	NAD-SFC	NoSubs
7	6	4	155	18	37.0	0.301	1.102	0.012	1288.	399.	-65.9	0.2940	0.52	0.29	2.60	23.0	15.0	300.8	2.0	0	0.00	52.	1000.	2	NAD-SFC	NoSubs
7	6	4	155	19	-12.4	0.310	-9.000	-9.000	-999.	414.	214.1	0.2940	0.52	0.50	3.10	7.0	15.0	299.9	2.0	0	0.00	54.	1000.	2	NAD-SFC	NoSubs
7	6	4	155	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	298.8	2.0	0	0.00	57.	1000.	3	NAD-SFC	NoSubs
7	6	4	155	21	-14.0	0.183	-9.000	-9.000	-999.	188.	39.2	0.2160	0.52	1.00	2.10	299.0	15.0	297.6	2.0	0	0.00	60.	1000.	3	NAD-SFC	NoSubs
7	6	4	155	22	-42.8	0.420	-9.000	-9.000	-999.	654.	154.5	0.2160	0.52	1.00	4.60	275.0	15.0	295.0	2.0	0	0.00	69.	1001.	3	NAD-SFC	NoSubs
7	6	4	155	23	-48.0	0.468	-9.000	-9.000	-999.	767.	190.1	0.2160	0.52	1.00	5.10	282.0	15.0	292.9	2.0	0	0.00	77.	1001.	3	NAD-SFC	NoSubs
7	6	4	155	24	-38.4	0.373	-9.000	-9.000	-999.	553.	120.3	0.2160	0.52	1.00	4.10	295.0	15.0	292.1	2.0	0	0.00	80.	1001.	3	NAD-SFC	NoSubs
7	6	5	156	1	-35.8	0.347	-9.000	-9.000	-999.	491.	104.0	0.2720	0.52	1.00	3.60	319.0	15.0	291.5	2.0	0	0.00	83.	1001.	3	NAD-SFC	NoSubs
7	6	5	156	2	-29.6	0.297	-9.000	-9.000	-999.	390.	78.9	0.2720	0.52	1.00	3.10	329.0	15.0	290.8	2.0	0	0.00	85.	1002.	4	NAD-SFC	NoSubs
7	6	5	156	3	-30.3	0.303	-9.000	-9.000	-999.	401.	82.3	0.2930	0.52	1.00	3.10	338.0	15.0	290.2	2.0	0	0.00	88.	1002.	4	NAD-SFC	NoSubs
7	6	5	156	4	-24.2	0.246	-9.000	-9.000	-999.	295.	55.3	0.2720	0.52	1.00	2.60	317.0	15.0	289.6	2.0	0	0.00	89.	1002.	4	NAD-SFC	NoSubs
7	6	5	156	5	-23.6	0.247	-9.000	-9.000	-999.	294.	57.1	0.2720	0.52	1.00	2.60	314.0	15.0	289.2	2.0	0	0.00	89.	1002.	5	NAD-SFC	NoSubs
7	6	5	156	6	-0.6	0.248	-9.000	-9.000	-999.	296.	2239.4	0.2160	0.52	0.45	2.60	298.0	15.0	289.0	2.0	0	0.00	88.	1003.	5	NAD-SFC	NoSubs
7	6	5	156	7	40.7	0.343	0.673	0.009	268.	483.	-89.0	0.2720	0.52	0.27	3.10	315.0	15.0	289.4	2.0	0	0.00	81.	1003.	5	NAD-SFC	NoSubs
7	6	5	156	8	84.9	0.275	1.004	0.009	426.	349.	-22.0	0.2930	0.52	0.21	2.10	332.0	15.0	289.9	2.0	0	0.00	76.	1003.	4	NAD-SFC	NoSubs
7	6	5	156	9	122.9	0.176	1.227	0.008	538.	182.	-4.0	0.2930	0.52	0.20	1.00	338.0	15.0	291.0	2.0	0	0.00	71.	1003.	4	NAD-SFC	NoSubs
7	6	5	156	10	154.9	0.120	1.413	0.007	652.	100.	-1.0	0.2940	0.52	0.19	0.50	4.0	15.0	292.1	2.0	0	0.00	68.	1003.	3	NAD-SFC	NoSubs
7	6	5	156	11	173.5	0.117	1.552	0.006	771.	96.	-1.0	0.2470	0.52	0.19	0.50	34.0	15.0	293.2	2.0	0	0.00	64.	1002.	4	NAD-SFC	NoSubs
7	6	5	156	12	183.4	0.185	1.653	0.006	881.	191.	-3.1	0.2940	0.52	0.19	1.00	27.0	15.0	294.8	2.0	0	0.00	57.	1001.	4	NAD-SFC	NoSubs
7	6	5	156	13	183.2	0.298	1.714	0.006	983.	390.	-12.8	0.2940	0.52	0.19	2.10	15.0	15.0	295.9	2.0	0	0.00	50.	1001.	4	NAD-SFC	NoSubs
7	6	5	156	14	174.9	0.436	1.768	0.007	1128.	691.	-42.3	0.2940	0.52	0.19	3.60	5.0	15.0	296.6	2.0	0	0.00	44.	1000.	3	NAD-SFC	NoSubs
7	6	5	156	15	152.9	0.523	1.744	0.008	1240.	907.	-83.5	0.2940	0.52	0.19	4.60	4.0	15.0	296.9	2.0	0	0.00	42.	1000.	3	NAD-SFC	NoSubs
7	6	5	156	16	121.2	0.618	1.649	0.008	1320.	1165.	-173.9	0.2930	0.52	0.20	5.70	355.0	15.0	296.6	2.0	0	0.00	41.	1000.	3	NAD-SFC	NoSubs
7	6	5	156	17	81.4	0.656	1.457	0.008	1357.	1274.	-309.5	0.2930	0.52	0.22	6.20	351.0	15.0	295.8	2.0	0	0.00	44.	1000.	3	NAD-SFC	NoSubs
7	6	5	156	18	36.1	0.488	1.114	0.008	1368.	848.	-288.3	0.2940	0.52	0.29	4.60	5.0	15.0	294.5	2.0	0	0.00	54.	1001.	3	NAD-SFC	NoSubs
7	6	5	156	19	-20.4	0.466	-9.000	-9.000	-999.	765.	441.7	0.2930	0.52	0.50	4.60	349.0	15.0	292.6	2.0	0	0.00	61.	1001.	3	NAD-SFC	NoSubs
7	6	5	156	20	-41.1	0.397	-9.000	-9.000	-999.	605.	136.3	0.2720	0.52	1.00	4.10	329.0	15.0	291.2	2.0	0	0.00	64.	1002.	3	NAD-SFC	NoSubs
7	6	5	156	21	-43.7	0.420	-9.000	-9.000	-999.	653.	151.6	0.2160	0.52	1.00	4.60	299.0	15.0	289.8	2.0	0	0.00	67.	1003.	3	NAD-SFC	NoSubs
7	6	5	156	22	-49.0	0.468	-9.000	-9.000	-999.	767.	186.8	0.2160	0.52	1.00	5.10	299.0	15.0	288.1	2.0	0	0.00	70.	1004.	3	NAD-SFC	NoSubs
7	6	5	156	23	-40.2	0.397	-9.000	-9.000	-999.	605.	139.5	0.2720	0.52	1.00	4.10	313.0	15.0	287.0	2.0	0	0.00	73.	1004.	4	NAD-SFC	NoSubs
7	6	5	156	24	-40.4	0.397	-9.000	-9.000	-999.	601.	139.1	0.2720	0.52	1.00	4.10	310.0	15.0	286.2	2.0	0	0.00	77.	1004.	4	NAD-SFC	NoSubs
7	6	6	157	1	-33.7	0.347	-9.000	-9.000	-999.	493.	111.5	0.2720	0.52	1.00	3.60	315.0	15.0	285.5	2.0	0	0.00	79.	1005.	5	NAD-SFC	NoSubs
7	6	6	157	2	-29.2	0.348	-9.000	-9.000	-999.	494.	129.8	0.2720	0.52	1.00	3.60	309.0	15.0	285.0	2.0	0	0.00	82.	1005.	7	NAD-SFC	NoSubs
7	6	6	157	3	-25.0	0.298	-9.000	-9.000	-999.	392.	94.8	0.2720	0.52	1.00	3.10	309.0	15.0	284.4	2.0	0	0.00	84.	1005.	7	NAD-SFC	NoSubs
7	6	6	157	4	-27.2	0.298	-9.000	-9.000	-999.	390.	86.8	0.2720	0.52	1.00	3.10	310.0	15.0	283.9	2.0	0	0.00	87.	1005.	6	NAD-SFC	NoSubs
7	6	6	157	5	-22.6	0.247	-9.000	-9.000	-999.	296.	59.8	0.2720	0.52	1.00	2.60	310.0	15.0	283.4	2.0	0	0.00	89.	1005.	6	NAD-SFC	NoSubs
7	6	6	157	6	-1.9	0.426	-9.000	-9.000	-999.	667.	3621.0	0.2930	0.52	0.45	4.10	335.0	15.0	284.0	2.0	0	0.00	85.	1005.	7	NAD-SFC	NoSubs
7	6	6	157	7	33.9	0.487	0.633	0.005	268.	815.	-305.2	0.2930	0.52	0.27	4.60	336.0	15.0	285.4	2.0	0	0.00	77.	1005.	7	NAD-SFC	NoSubs
7	6	6	157	8	77.0	0.410	0.992	0.005	454.	635.	-80.3	0.2930	0.52	0.21	3.60	345.0	15.0	286.8	2.0	0	0.00	68.	1005.	6	NAD-SFC	NoSubs
7	6	6	157	9	28.6	0.342	0.732	0.005	492.	484.	-125.7	0.2930	0.52	0.20	3.10	343.0	15.0	287.9	2.0	0	0.00	60.	1005.	10	NAD-SFC	NoSubs
7	6	6	157	10	152.1	0.339	1.407	0.005	658.	473.	-22.9	0.2930	0.52	0.19	2.60	337.0	15.0	289.2	2.0	0	0.00	51.	1005.	4	NAD-SFC	NoSubs
7	6	6	157	11	175.2	0.383	1.629	0.005	886.	569.	-28.7	0.2720	0.52	0.19	3.10	327.0	15.0	290.5	2.0	0	0.00	43.	1004.	3	NAD-SFC	NoSubs
7	6	6	157	12	185.1	0.431	1.821	0.005	1169.	678.	-38.6	0.2720	0.52	0.19	3.60	328.0	15.0	291.6	2.0	0	0.00	38.	1004.	3	NAD-SFC	NoSubs
7	6	6	157	13	184.7	0.529	1.925	0.006	1384.	922.	-71.7	0.2930	0.52	0.19	4.60	341.0	15.0	292.2	2.0	0	0.00	35.	1003.	3	NAD-SFC	NoSubs
7	6	6	157	14	173.7	0.573	1.930	0.006	1481.	1040.	-96.8	0.2930	0.52	0.19	5.10	336.0	15.0	292.9	2.0	0	0.00	34.	1002.	3	NAD-SFC	NoSubs
7	6	6	157	15	151.8	0.625	1.877	0.006	1560.	1183.	-143.6	0.2930	0.52	0.19	5.70	336.0	15.0	293.2	2.0	0	0.00	33.	1002.	3	NAD-SFC	NoSubs
7	6	6	157	16	120.3	0.654	1.759	0.006	1619.	1267.	-207.4	0.2720	0.52	0.20	6.20	328.0	15.0	293.4	2.0	0	0.00	33.	1002.	3	NAD-SFC	NoSubs
7	6	6	157	17	80.1	0.608	1.549	0.006	1658.	1142.	-250.4	0.2930	0.52	0.22	5.70	330.0	15.0	293.2	2.0	0	0.00	35.	1001.	2	NAD-SFC	NoSubs
7	6	6	157	18	34.7	0.386	1.175	0.006	1672.	625.	-148.3	0.2720	0.52	0.29	3.60	326.0	15.0	292.6	2.0	0	0.00	46.	1002.	2	NAD-SFC	NoSubs
7	6	6	157	19	-20.9	0.412	-9.000	-9.000	-999.	634.	298.3	0.2930	0.52	0.49	4.10	333.0	15.0	291.2	2.0	0	0.00	49.	1002.	2	NAD-SFC	NoSubs
7	6	6	157	20	-36.9	0.347	-9.000	-9.000	-999.	493.	100.7	0.2720	0.52	1.00	3.60	328.0	15.0	290.0	2.0	0	0.00	52.	1002.	2	NAD-SFC	NoSubs
7	6	6	157	21	-37.0	0.347	-9.000	-9.000	-999.	490.	100.4	0.2720	0.52	1.00	3.60	325.0	15.0	289.2	2.0	0	0.00	53.	1002.	2	NAD-SFC	NoSubs
7	6	6	157	22	-31.7	0.296	-9.000	-9.000	-999.	389.	73.3	0.2720	0.52	1.00	3.10	324.0	15.0	288.8	2.0	0	0.00	53.	1002.	2	NAD-SFC	NoSubs
7	6	6	157	23	-8.0	0.137	-9.000	-9.000	-999.	143.	28.5	0.2720	0.52	1.00	1.50	310.0	15.0	287.9	2.0	0	0.00	56.	1002.	2	NAD-SFC	NoSubs
7	6	6	157	24	-3.6	0.097	-9.000	-9.000	-999.	73.	22.4	0.2160	0.52	1.00	1.00	299.0	15.0	287.2	2.0	0	0.00	58.	1002.	2	NAD-SFC	NoSubs
7	6	7	158	1	-3.5	0.096	-9.000	-9.000	-999.	71.	22.1	0.1950	0.52	1.00	1.00	239.0	15.0	286.4	2.0	0	0.00	61.	1002.	2	NAD-SFC	NoSubs
7	6	7	158	2	-6.7	0.123	-9.000	-9.000	-999.	103.	24.6	0.1750	0.52	1.00	1.50	248.0	15.0	285.9	2.0	0	0.00	64.	1002.	2	NAD-SFC	NoSubs
7	6	7	158	3	-6.7	0.123	-9.000	-9.000	-999.	103.	24.6	0.1750	0.52	1.00	1.50	259.0	15.0	285.4	2.0	0	0.00	67.	1002.	2	NAD-SFC	NoSubs
7	6	7	158	4	-13.3	0.173	-9.000	-9.000	-999.	172.	34.9	0.1750	0.52	1.00	2.10	263.0	15.0	284.9	2.0	0	0.00	69.	1003.	2	NAD-SFC	NoSubs

7	6	7	158	5	-22.6	0.230	-9.000	-9.000	-999.	265.	48.3	0.2160	0.52	1.00	2.60	275.0	15.0	284.4	2.0	0	0.00	70.	1003.	2	NAD-SFC	NoSubs
7	6	7	158	6	-5.9	0.190	-9.000	-9.000	-999.	200.	105.1	0.2160	0.52	0.45	2.10	274.0	15.0	284.2	2.0	0	0.00	71.	1004.	2	NAD-SFC	NoSubs
7	6	7	158	7	39.3	0.298	0.605	0.005	202.	390.	-60.0	0.2720	0.52	0.27	2.60	329.0	15.0	286.6	2.0	0	0.00	59.	1004.	2	NAD-SFC	NoSubs
7	6	7	158	8	84.5	0.218	0.922	0.006	333.	247.	-11.0	0.2930	0.52	0.21	1.50	338.0	15.0	288.4	2.0	0	0.00	49.	1004.	2	NAD-SFC	NoSubs
7	6	7	158	9	123.7	0.116	1.202	0.005	503.	100.	-1.1	0.2930	0.52	0.20	0.50	333.0	15.0	290.0	2.0	0	0.00	43.	1004.	2	NAD-SFC	NoSubs
7	6	7	158	10	154.8	-9.000	-9.000	-9.000	692.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	291.6	2.0	0	0.00	37.	1004.	2	NAD-SFC	NoSubs
7	6	7	158	11	176.2	-9.000	-9.000	-9.000	894.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	293.0	2.0	0	0.00	34.	1003.	2	NAD-SFC	NoSubs
7	6	7	158	12	186.3	-9.000	-9.000	-9.000	1103.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.2	2.0	0	0.00	31.	1002.	2	NAD-SFC	NoSubs
7	6	7	158	13	186.1	0.121	1.891	0.006	1300.	101.	-1.0	0.2720	0.52	0.19	0.50	306.0	15.0	295.4	2.0	0	0.00	28.	1002.	2	NAD-SFC	NoSubs
7	6	7	158	14	175.2	0.234	1.903	0.006	1407.	271.	-6.5	0.2720	0.52	0.19	1.50	326.0	15.0	296.2	2.0	0	0.00	27.	1001.	2	NAD-SFC	NoSubs
7	6	7	158	15	153.3	0.292	1.852	0.006	1481.	378.	-14.5	0.2930	0.52	0.19	2.10	343.0	15.0	296.9	2.0	0	0.00	26.	1000.	2	NAD-SFC	NoSubs
7	6	7	158	16	121.6	0.331	1.736	0.006	1536.	458.	-26.7	0.2930	0.52	0.20	2.60	353.0	15.0	297.1	2.0	0	0.00	26.	1000.	2	NAD-SFC	NoSubs
7	6	7	158	17	81.8	-9.000	-9.000	-9.000	1572.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	297.1	2.0	0	0.00	27.	1000.	2	NAD-SFC	NoSubs
7	6	7	158	18	36.4	0.255	1.173	0.006	1586.	310.	-40.9	0.2940	0.52	0.29	2.10	29.0	15.0	296.4	2.0	0	0.00	37.	1001.	2	NAD-SFC	NoSubs
7	6	7	158	19	-8.2	0.196	-9.000	-9.000	-999.	209.	81.8	0.2470	0.52	0.49	2.10	43.0	15.0	295.9	2.0	0	0.00	38.	1001.	2	NAD-SFC	NoSubs
7	6	7	158	20	-3.7	0.099	-9.000	-9.000	-999.	79.	22.9	0.2470	0.52	1.00	1.00	36.0	15.0	294.6	2.0	0	0.00	41.	1001.	2	NAD-SFC	NoSubs
7	6	7	158	21	-1.5	0.080	-9.000	-9.000	-999.	54.	31.1	0.1950	0.52	1.00	0.50	232.0	15.0	293.0	2.0	0	0.00	47.	1001.	2	NAD-SFC	NoSubs
7	6	7	158	22	-21.4	0.224	-9.000	-9.000	-999.	255.	47.1	0.1950	0.52	1.00	2.60	238.0	15.0	291.2	2.0	0	0.00	54.	1002.	2	NAD-SFC	NoSubs
7	6	7	158	23	-6.6	0.123	-9.000	-9.000	-999.	108.	24.7	0.1750	0.52	1.00	1.50	251.0	15.0	290.0	2.0	0	0.00	59.	1002.	2	NAD-SFC	NoSubs
7	6	7	158	24	-7.2	0.129	-9.000	-9.000	-999.	111.	26.4	0.2160	0.52	1.00	1.50	295.0	15.0	289.1	2.0	0	0.00	61.	1002.	2	NAD-SFC	NoSubs
7	6	8	159	1	-16.6	0.200	-9.000	-9.000	-999.	214.	42.8	0.2930	0.52	1.00	2.10	340.0	15.0	288.5	2.0	0	0.00	64.	1002.	2	NAD-SFC	NoSubs
7	6	8	159	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	287.8	2.0	0	0.00	68.	1003.	3	NAD-SFC	NoSubs
7	6	8	159	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	287.1	2.0	0	0.00	72.	1003.	2	NAD-SFC	NoSubs
7	6	8	159	4	-8.4	0.140	-9.000	-9.000	-999.	125.	29.3	0.2930	0.52	1.00	1.50	356.0	15.0	286.5	2.0	0	0.00	76.	1004.	2	NAD-SFC	NoSubs
7	6	8	159	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	286.0	2.0	0	0.00	79.	1004.	2	NAD-SFC	NoSubs
7	6	8	159	6	-0.5	0.052	-9.000	-9.000	-999.	29.	23.7	0.2930	0.52	0.45	0.50	356.0	15.0	285.8	2.0	0	0.00	80.	1005.	2	NAD-SFC	NoSubs
7	6	8	159	7	39.6	0.201	0.597	0.009	193.	217.	-18.5	0.2930	0.52	0.27	1.50	347.0	15.0	287.5	2.0	0	0.00	70.	1005.	2	NAD-SFC	NoSubs
7	6	8	159	8	84.7	0.108	0.896	0.007	304.	89.	-1.3	0.2720	0.52	0.21	0.50	319.0	15.0	289.2	2.0	0	0.00	61.	1005.	2	NAD-SFC	NoSubs
7	6	8	159	9	124.0	-9.000	-9.000	-9.000	433.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	291.0	2.0	0	0.00	55.	1005.	2	NAD-SFC	NoSubs
7	6	8	159	10	155.2	-9.000	-9.000	-9.000	615.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	292.8	2.0	0	0.00	48.	1004.	2	NAD-SFC	NoSubs
7	6	8	159	11	176.8	-9.000	-9.000	-9.000	812.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.8	2.0	0	0.00	42.	1003.	2	NAD-SFC	NoSubs
7	6	8	159	12	187.2	-9.000	-9.000	-9.000	993.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.4	2.0	0	0.00	36.	1002.	2	NAD-SFC	NoSubs
7	6	8	159	13	187.1	-9.000	-9.000	-9.000	1169.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.8	2.0	0	0.00	32.	1001.	2	NAD-SFC	NoSubs
7	6	8	159	14	176.4	-9.000	-9.000	-9.000	1313.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.8	2.0	0	0.00	29.	1001.	2	NAD-SFC	NoSubs
7	6	8	159	15	154.5	0.120	1.816	0.007	1384.	100.	-1.0	0.2930	0.52	0.19	0.50	333.0	15.0	299.4	2.0	0	0.00	28.	1000.	2	NAD-SFC	NoSubs
7	6	8	159	16	122.9	0.228	1.701	0.007	1429.	260.	-8.5	0.2930	0.52	0.20	1.50	349.0	15.0	299.8	2.0	0	0.00	27.	999.	2	NAD-SFC	NoSubs
7	6	8	159	17	83.2	0.321	1.504	0.007	1458.	436.	-35.3	0.2930	0.52	0.22	2.60	354.0	15.0	299.6	2.0	0	0.00	29.	999.	2	NAD-SFC	NoSubs
7	6	8	159	18	37.6	0.302	1.158	0.007	1469.	398.	-65.0	0.2940	0.52	0.28	2.60	4.0	15.0	298.8	2.0	0	0.00	40.	999.	2	NAD-SFC	NoSubs
7	6	8	159	19	-11.4	0.310	-9.000	-9.000	-999.	415.	233.3	0.2940	0.52	0.49	3.10	3.0	15.0	297.8	2.0	0	0.00	43.	999.	2	NAD-SFC	NoSubs
7	6	8	159	20	-25.5	0.252	-9.000	-9.000	-999.	304.	55.7	0.2930	0.52	1.00	2.60	348.0	15.0	296.6	2.0	0	0.00	45.	1000.	2	NAD-SFC	NoSubs
7	6	8	159	21	-34.0	0.325	-9.000	-9.000	-999.	445.	90.2	0.2160	0.52	1.00	3.60	289.0	15.0	294.9	2.0	0	0.00	50.	1000.	2	NAD-SFC	NoSubs
7	6	8	159	22	-44.4	0.420	-9.000	-9.000	-999.	653.	148.5	0.2160	0.52	1.00	4.60	270.0	15.0	291.5	2.0	0	0.00	66.	1000.	2	NAD-SFC	NoSubs
7	6	8	159	23	-34.6	0.325	-9.000	-9.000	-999.	451.	88.7	0.2160	0.52	1.00	3.60	279.0	15.0	290.2	2.0	0	0.00	72.	1000.	2	NAD-SFC	NoSubs
7	6	8	159	24	-22.4	0.230	-9.000	-9.000	-999.	270.	48.8	0.2160	0.52	1.00	2.60	277.0	15.0	290.0	2.0	0	0.00	70.	1000.	2	NAD-SFC	NoSubs
7	6	9	160	1	-3.4	0.094	-9.000	-9.000	-999.	85.	21.7	0.1750	0.52	1.00	1.00	260.0	15.0	289.8	2.0	0	0.00	68.	1001.	2	NAD-SFC	NoSubs
7	6	9	160	2	-3.6	0.097	-9.000	-9.000	-999.	72.	22.4	0.2160	0.52	1.00	1.00	280.0	15.0	289.5	2.0	0	0.00	68.	1001.	2	NAD-SFC	NoSubs
7	6	9	160	3	-3.6	0.097	-9.000	-9.000	-999.	72.	22.4	0.2160	0.52	1.00	1.00	276.0	15.0	288.9	2.0	0	0.00	70.	1002.	2	NAD-SFC	NoSubs
7	6	9	160	4	-3.4	0.094	-9.000	-9.000	-999.	69.	21.7	0.1750	0.52	1.00	1.00	257.0	15.0	288.2	2.0	0	0.00	73.	1002.	2	NAD-SFC	NoSubs
7	6	9	160	5	-1.5	0.081	-9.000	-9.000	-999.	56.	31.6	0.2160	0.52	1.00	0.50	290.0	15.0	287.8	2.0	0	0.00	75.	1002.	2	NAD-SFC	NoSubs
7	6	9	160	6	19.2	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.45	0.00	0.0	15.0	287.5	2.0	0	0.00	77.	1003.	2	NAD-SFC	NoSubs
7	6	9	160	7	40.0	0.100	0.613	0.011	206.	75.	-2.2	0.2930	0.52	0.27	0.50	345.0	15.0	289.2	2.0	0	0.00	70.	1003.	2	NAD-SFC	NoSubs
7	6	9	160	8	85.3	-9.000	-9.000	-9.000	300.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	291.2	2.0	0	0.00	62.	1003.	2	NAD-SFC	NoSubs
7	6	9	160	9	124.7	0.108	1.123	0.007	406.	86.	-1.0	0.2160	0.52	0.20	0.50	276.0	15.0	293.2	2.0	0	0.00	54.	1003.	2	NAD-SFC	NoSubs
7	6	9	160	10	156.1	-9.000	-9.000	-9.000	562.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.2	2.0	0	0.00	47.	1002.	2	NAD-SFC	NoSubs
7	6	9	160	11	177.7	-9.000	-9.000	-9.000	732.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.1	2.0	0	0.00	41.	1002.	2	NAD-SFC	NoSubs
7	6	9	160	12	188.2	-9.000	-9.000	-9.000	935.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.8	2.0	0	0.00	37.	1001.	2	NAD-SFC	NoSubs
7	6	9	160	13	188.3	0.186	1.777	0.007	1065.	192.	-3.0	0.2930	0.52	0.19	1.00	345.0	15.0	300.2	2.0	0	0.00	32.	1000.	2	NAD-SFC	NoSubs
7	6	9	160	14	177.6	0.238	1.797	0.008	1166.	279.	-6.8	0.2930	0.52	0.19	1.50	354.0	15.0	301.2	2.0	0	0.00	29.	999.	2	NAD-SFC	NoSubs
7	6	9	160	15	155.7	0.292	1.759	0.008	1247.	379.	-14.3	0.2930	0.52	0.19	2.10	360.0	15.0	301.8	2.0	0	0.00	28.	999.	2	NAD-SFC	NoSubs
7	6	9	160	16	124.3	-9.000	-9.000	-9.000	1310.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	302.2	2.0	0	0.00	28.	998.	2	NAD-SFC	NoSubs
7	6	9	160	17	84.5	0.368	1.472	0.007	1347.	535.	-52.3	0.2940	0.52	0.22	3.10	9.0	15.0	301.8	2.0	0	0.00	33.	998.	2	NAD-SFC	NoSubs
7	6	9	160	18	39.0	0.303	1.143	0.007	1362.	402.	-63.3	0.2940	0.52	0.28	2.60	13.0	15.0	301.1	2.0	0	0.00	42.	998.	2	NAD-SFC	NoSubs
7	6	9	160	19	11.4	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.49	0.00	0.0	15.0	300.5	2.0	0	0.00	42.	999.	2	NAD-SFC	NoSubs
7	6	9	160	20	-16.3	0.200	-9.000	-9.000	-999.	215.	43.7	0.2930	0.52	1.00	2.10	344.0	15.0	299.2	2.0	0	0.00	44.	999.	2	NAD-SFC	NoSubs
7	6	9	160	21	-7.1	0.129	-9.000	-9.000	-999.	112.	26.8	0.2160	0.52	1.00	1.50	296.0	15.0	297.9	2.0	0	0.00	48.	999.	2	NAD-SFC	NoSubs
7	6	9	160	22	-14.2	0.183	-9.000	-9.000	-999.	188.	38.6	0.2160	0.52	1.00	2.10	288.0	15.0	296.8	2.0	0	0.00	51.	999.	2	NAD-SFC	NoSubs
7	6	9	160	23	-29.0	0.278	-9.000	-9.000	-999.	352.	66.1	0.2160	0.52	1.00	3.10	294.0	15.0	295.5	2.0	0	0.00	54.	1000.	2	NAD-SFC	NoSubs
7	6	9	160	24	-15.8	0.195	-9.000	-9.000	-999.	210.	42.0	0.2720	0.52	1.00	2.10	307.0	15.0	294.2	2.0	0	0.00	59.	1000.	2	NAD-SFC	NoSubs
7	6	10	161	1	-16.5	0.200	-9.000	-9.000	-999.	214.	43.2	0.2930	0.52	1.00	2.10	346.0	15.0	293.2	2.0	0	0.00	67.	1000.	2	NAD-SFC	NoSubs
7	6	10	161	2	-3.8	0.099	-9.000	-9.000	-999.	80.	22.9	0.2470	0.52	1.00	1.00	30.0	15.0	292.2	2.0	0	0.00	74.	1000.	2	NAD-SFC	NoSubs
7	6	10	161	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	291.8	2.0	0	0.00	78.	1000.	2	NAD-SFC	NoSubs
7	6	10	161	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	291.1	2.0	0	0.00	81.	1000.	2	NAD-SFC	NoSubs
7	6	10	161	5	-1.6	0.082	-9.000	-9.000	-999.	57.	31.7	0.2470	0.52	1.00	0.50	30.0	15.0	290.5	2.0	0	0.00	83.	1000.	2	NAD-SFC	NoSubs
7	6	10	161	6	-0.4	0.046	-9.000	-9.000	-999.	24.	22.3	0.2090	0.52	0.45	0.50	71.0	15.0	290.1	2.0	0	0.00	86.	1001.	2	NAD-SFC	NoSubs
7	6	10	161	7	40.7	0.096	0.592	0.011	181.	71.	-1.9	0.2470	0.52	0.27	0.50	40.0	15.0	291.6	2.0	0	0.00	77.	1001.	2	NAD-SFC	NoSubs
7	6	10	161	8	85.9	-9.000	-9.000	-9.000	292.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	293.2	2.0	0	0.00	70.	1001.	2	NAD-SFC	NoSubs
7	6	10	161	9	125.4	-9.000	-9.000	-9.000	403.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	295.1	2.0	0	0.00	63.	1000.	2	NAD-SFC	NoSubs

7	6	10	161	10	156.4	0.170	1.352	0.007	564.	168.	-2.8	0.2160	0.52	0.19	1.00	281.0	15.0	296.1	2.0	0	0.00	59.	1000.	2	NAD-SFC	NoSubs
7	6	10	161	11	177.8	0.223	1.536	0.008	728.	252.	-5.5	0.2160	0.52	0.19	1.50	288.0	15.0	297.2	2.0	0	0.00	55.	1000.	2	NAD-SFC	NoSubs
7	6	10	161	12	188.4	0.121	1.686	0.010	908.	106.	-1.0	0.2720	0.52	0.19	0.50	310.0	15.0	299.1	2.0	0	0.00	47.	999.	2	NAD-SFC	NoSubs
7	6	10	161	13	188.6	0.186	1.753	0.010	1019.	192.	-3.0	0.2930	0.52	0.19	1.00	342.0	15.0	300.8	2.0	0	0.00	41.	998.	2	NAD-SFC	NoSubs
7	6	10	161	14	177.6	0.437	1.757	0.010	1087.	692.	-41.6	0.2930	0.52	0.19	3.60	347.0	15.0	300.9	2.0	0	0.00	42.	997.	2	NAD-SFC	NoSubs
7	6	10	161	15	155.1	0.478	1.707	0.009	1142.	792.	-62.6	0.2940	0.52	0.19	4.10	1.0	15.0	300.0	2.0	0	0.00	50.	997.	2	NAD-SFC	NoSubs
7	6	10	161	16	123.7	0.425	1.603	0.009	1185.	667.	-55.0	0.2940	0.52	0.20	3.60	9.0	15.0	300.4	2.0	0	0.00	46.	997.	2	NAD-SFC	NoSubs
7	6	10	161	17	84.3	0.367	1.422	0.009	1214.	537.	-52.3	0.2940	0.52	0.22	3.10	11.0	15.0	300.8	2.0	0	0.00	44.	997.	2	NAD-SFC	NoSubs
7	6	10	161	18	39.2	0.257	1.106	0.009	1227.	320.	-38.6	0.2940	0.52	0.28	2.10	9.0	15.0	300.8	2.0	0	0.00	52.	997.	2	NAD-SFC	NoSubs
7	6	10	161	19	-5.7	0.208	-9.000	-9.000	-999.	228.	140.3	0.2930	0.52	0.48	2.10	356.0	15.0	300.2	2.0	0	0.00	54.	997.	2	NAD-SFC	NoSubs
7	6	10	161	20	-25.0	0.252	-9.000	-9.000	-999.	303.	56.8	0.2930	0.52	1.00	2.60	335.0	15.0	298.9	2.0	0	0.00	59.	997.	3	NAD-SFC	NoSubs
7	6	10	161	21	-40.1	0.397	-9.000	-9.000	-999.	601.	139.2	0.2720	0.52	1.00	4.10	327.0	15.0	297.2	2.0	0	0.00	67.	997.	3	NAD-SFC	NoSubs
7	6	10	161	22	-35.9	0.355	-9.000	-9.000	-999.	508.	110.3	0.2930	0.52	1.00	3.60	330.0	15.0	295.8	2.0	0	0.00	74.	997.	3	NAD-SFC	NoSubs
7	6	10	161	23	-30.8	0.303	-9.000	-9.000	-999.	402.	80.5	0.2930	0.52	1.00	3.10	342.0	15.0	295.1	2.0	0	0.00	77.	997.	3	NAD-SFC	NoSubs
7	6	10	161	24	-30.9	0.303	-9.000	-9.000	-999.	401.	80.3	0.2930	0.52	1.00	3.10	350.0	15.0	294.4	2.0	0	0.00	81.	997.	3	NAD-SFC	NoSubs
7	6	11	162	1	-31.0	0.303	-9.000	-9.000	-999.	401.	80.1	0.2930	0.52	1.00	3.10	354.0	15.0	293.5	2.0	0	0.00	84.	997.	3	NAD-SFC	NoSubs
7	6	11	162	2	-31.1	0.303	-9.000	-9.000	-999.	401.	79.8	0.2930	0.52	1.00	3.10	352.0	15.0	292.6	2.0	0	0.00	84.	998.	3	NAD-SFC	NoSubs
7	6	11	162	3	-25.0	0.252	-9.000	-9.000	-999.	305.	57.3	0.2940	0.52	1.00	2.60	11.0	15.0	291.9	2.0	0	0.00	84.	998.	4	NAD-SFC	NoSubs
7	6	11	162	4	-16.1	0.200	-9.000	-9.000	-999.	216.	44.7	0.2940	0.52	1.00	2.10	16.0	15.0	291.2	2.0	0	0.00	84.	999.	4	NAD-SFC	NoSubs
7	6	11	162	5	-8.0	0.140	-9.000	-9.000	-999.	126.	30.5	0.2940	0.52	1.00	1.50	17.0	15.0	290.8	2.0	0	0.00	84.	999.	4	NAD-SFC	NoSubs
7	6	11	162	6	16.9	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.45	0.00	0.0	15.0	290.8	2.0	0	0.00	82.	999.	3	NAD-SFC	NoSubs
7	6	11	162	7	41.8	0.203	0.668	0.007	254.	219.	-17.7	0.2930	0.52	0.27	1.50	356.0	15.0	291.8	2.0	0	0.00	70.	1000.	3	NAD-SFC	NoSubs
7	6	11	162	8	86.7	-9.000	-9.000	-9.000	352.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	293.5	2.0	0	0.00	64.	999.	3	NAD-SFC	NoSubs
7	6	11	162	9	125.7	-9.000	-9.000	-9.000	515.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	295.2	2.0	0	0.00	59.	999.	3	NAD-SFC	NoSubs
7	6	11	162	10	156.6	-9.000	-9.000	-9.000	717.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.8	2.0	0	0.00	56.	999.	3	NAD-SFC	NoSubs
7	6	11	162	11	178.2	-9.000	-9.000	-9.000	973.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.5	2.0	0	0.00	52.	998.	3	NAD-SFC	NoSubs
7	6	11	162	12	188.8	0.121	1.789	0.009	1080.	101.	-1.0	0.2720	0.52	0.19	0.50	313.0	15.0	299.9	2.0	0	0.00	48.	997.	2	NAD-SFC	NoSubs
7	6	11	162	13	188.9	0.121	1.841	0.010	1178.	101.	-1.0	0.2720	0.52	0.19	0.50	319.0	15.0	301.0	2.0	0	0.00	45.	997.	2	NAD-SFC	NoSubs
7	6	11	162	14	178.3	0.238	1.850	0.010	1264.	279.	-6.7	0.2930	0.52	0.19	1.50	342.0	15.0	302.0	2.0	0	0.00	42.	996.	2	NAD-SFC	NoSubs
7	6	11	162	15	156.5	0.340	1.804	0.010	1334.	476.	-22.3	0.2930	0.52	0.19	2.60	348.0	15.0	302.6	2.0	0	0.00	40.	996.	2	NAD-SFC	NoSubs
7	6	11	162	16	125.0	0.425	1.690	0.010	1374.	664.	-54.4	0.2930	0.52	0.20	3.60	350.0	15.0	302.6	2.0	0	0.00	41.	996.	2	NAD-SFC	NoSubs
7	6	11	162	17	85.3	0.413	1.497	0.009	1399.	638.	-73.6	0.2940	0.52	0.22	3.60	2.0	15.0	302.2	2.0	0	0.00	47.	996.	2	NAD-SFC	NoSubs
7	6	11	162	18	40.0	0.349	1.166	0.009	1409.	497.	-94.5	0.2930	0.52	0.28	3.10	352.0	15.0	301.8	2.0	0	0.00	56.	997.	2	NAD-SFC	NoSubs
7	6	11	162	19	-9.0	0.365	-9.000	-9.000	-999.	530.	479.2	0.2930	0.52	0.48	3.60	341.0	15.0	300.5	2.0	0	0.00	59.	997.	2	NAD-SFC	NoSubs
7	6	11	162	20	-40.9	0.397	-9.000	-9.000	-999.	600.	136.2	0.2720	0.52	1.00	4.10	319.0	15.0	298.8	2.0	0	0.00	64.	998.	2	NAD-SFC	NoSubs
7	6	11	162	21	-41.1	0.397	-9.000	-9.000	-999.	601.	135.5	0.2720	0.52	1.00	4.10	318.0	15.0	297.2	2.0	0	0.00	66.	998.	2	NAD-SFC	NoSubs
7	6	11	162	22	-36.0	0.355	-9.000	-9.000	-999.	508.	110.5	0.2930	0.52	1.00	3.60	330.0	15.0	296.2	2.0	0	0.00	65.	999.	3	NAD-SFC	NoSubs
7	6	11	162	23	-35.2	0.347	-9.000	-9.000	-999.	491.	105.6	0.2720	0.52	1.00	3.60	325.0	15.0	295.8	2.0	0	0.00	65.	999.	3	NAD-SFC	NoSubs
7	6	11	162	24	-36.2	0.355	-9.000	-9.000	-999.	507.	109.8	0.2930	0.52	1.00	3.60	330.0	15.0	294.5	2.0	0	0.00	68.	999.	3	NAD-SFC	NoSubs
7	6	12	163	1	-31.1	0.303	-9.000	-9.000	-999.	402.	80.0	0.2930	0.52	1.00	3.10	352.0	15.0	293.2	2.0	0	0.00	72.	1000.	3	NAD-SFC	NoSubs
7	6	12	163	2	-31.2	0.303	-9.000	-9.000	-999.	401.	79.8	0.2930	0.52	1.00	3.10	348.0	15.0	292.4	2.0	0	0.00	74.	1000.	3	NAD-SFC	NoSubs
7	6	12	163	3	-25.4	0.252	-9.000	-9.000	-999.	304.	56.0	0.2930	0.52	1.00	2.60	348.0	15.0	291.8	2.0	0	0.00	75.	1000.	3	NAD-SFC	NoSubs
7	6	12	163	4	-8.2	0.140	-9.000	-9.000	-999.	132.	29.9	0.2930	0.52	1.00	1.50	336.0	15.0	291.1	2.0	0	0.00	75.	1001.	3	NAD-SFC	NoSubs
7	6	12	163	5	-1.6	0.083	-9.000	-9.000	-999.	58.	31.8	0.2930	0.52	1.00	0.50	332.0	15.0	290.6	2.0	0	0.00	76.	1001.	3	NAD-SFC	NoSubs
7	6	12	163	6	-0.3	0.047	-9.000	-9.000	-999.	24.	28.0	0.2930	0.52	0.45	0.50	334.0	15.0	290.5	2.0	0	0.00	76.	1001.	3	NAD-SFC	NoSubs
7	6	12	163	7	41.8	0.154	0.604	0.011	188.	145.	-7.8	0.2930	0.52	0.27	1.00	338.0	15.0	291.6	2.0	0	0.00	67.	1002.	3	NAD-SFC	NoSubs
7	6	12	163	8	86.0	-9.000	-9.000	-9.000	284.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	293.5	2.0	0	0.00	60.	1002.	2	NAD-SFC	NoSubs
7	6	12	163	9	125.5	-9.000	-9.000	-9.000	380.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	295.5	2.0	0	0.00	53.	1002.	2	NAD-SFC	NoSubs
7	6	12	163	10	156.9	-9.000	-9.000	-9.000	555.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.5	2.0	0	0.00	48.	1002.	2	NAD-SFC	NoSubs
7	6	12	163	11	178.7	0.120	1.535	0.006	724.	100.	-1.0	0.2720	0.52	0.19	0.50	321.0	15.0	299.2	2.0	0	0.00	44.	1001.	2	NAD-SFC	NoSubs
7	6	12	163	12	189.3	0.123	1.676	0.007	889.	104.	-1.0	0.2930	0.52	0.19	0.50	340.0	15.0	300.8	2.0	0	0.00	42.	1001.	2	NAD-SFC	NoSubs
7	6	12	163	13	189.5	0.186	1.761	0.007	1030.	192.	-3.0	0.2930	0.52	0.19	1.00	353.0	15.0	302.2	2.0	0	0.00	39.	1000.	2	NAD-SFC	NoSubs
7	6	12	163	14	179.0	0.297	1.791	0.008	1147.	388.	-13.0	0.2940	0.52	0.19	2.10	5.0	15.0	303.2	2.0	0	0.00	37.	1000.	2	NAD-SFC	NoSubs
7	6	12	163	15	157.3	0.386	1.762	0.009	1241.	576.	-32.6	0.2940	0.52	0.19	3.10	11.0	15.0	303.8	2.0	0	0.00	37.	999.	2	NAD-SFC	NoSubs
7	6	12	163	16	125.9	0.425	1.666	0.009	1311.	665.	-54.4	0.2940	0.52	0.20	3.60	12.0	15.0	303.9	2.0	0	0.00	38.	999.	2	NAD-SFC	NoSubs
7	6	12	163	17	86.2	0.368	1.483	0.008	1350.	538.	-51.5	0.2940	0.52	0.22	3.10	9.0	15.0	303.6	2.0	0	0.00	44.	1000.	2	NAD-SFC	NoSubs
7	6	12	163	18	41.0	0.304	1.162	0.008	1363.	404.	-60.9	0.2940	0.52	0.28	2.60	4.0	15.0	303.2	2.0	0	0.00	50.	1000.	2	NAD-SFC	NoSubs
7	6	12	163	19	-5.3	0.315	-9.000	-9.000	-999.	425.	531.1	0.2930	0.52	0.48	3.10	344.0	15.0	302.6	2.0	0	0.00	51.	1000.	2	NAD-SFC	NoSubs
7	6	12	163	20	-35.5	0.347	-9.000	-9.000	-999.	490.	104.9	0.2720	0.52	1.00	3.60	320.0	15.0	301.4	2.0	0	0.00	53.	1001.	2	NAD-SFC	NoSubs
7	6	12	163	21	-41.0	0.397	-9.000	-9.000	-999.	600.	136.4	0.2720	0.52	1.00	4.10	321.0	15.0	299.2	2.0	0	0.00	59.	1001.	2	NAD-SFC	NoSubs
7	6	12	163	22	-36.0	0.347	-9.000	-9.000	-999.	492.	103.5	0.2720	0.52	1.00	3.60	316.0	15.0	297.8	2.0	0	0.00	63.	1001.	2	NAD-SFC	NoSubs
7	6	12	163	23	-36.1	0.347	-9.000	-9.000	-999.	490.	103.1	0.2720	0.52	1.00	3.60	307.0	15.0	296.6	2.0	0	0.00	66.	1001.	2	NAD-SFC	NoSubs
7	6	12	163	24	-31.0	0.297	-9.000	-9.000	-999.	389.	75.2	0.2720	0.52	1.00	3.10	324.0	15.0	295.8	2.0	0	0.00	68.	1002.	2	NAD-SFC	NoSubs
7	6	13	164	1	-16.4	0.200	-9.000	-9.000	-999.	219.	43.4	0.2930	0.52	1.00	2.10	339.0	15.0	295.2	2.0	0	0.00	69.	1002.	2	NAD-SFC	NoSubs
7	6	13	164	2	-8.2	0.140	-9.000	-9.000	-999.	126.	29.7	0.2930	0.52	1.00	1.50	343.0	15.0	294.6	2.0	0	0.00	71.	1002.	2	NAD-SFC	NoSubs
7	6	13	164	3	-1.6	0.083	-9.000	-9.000	-999.	58.	31.8	0.2720	0.52	1.00	0.50	318.0	15.0	293.9	2.0	0	0.00	73.	1002.	2	NAD-SFC	NoSubs
7	6	13	164	4	-1.4	0.079	-9.000	-9.000	-999.	53.	30.9	0.1750	0.52	1.00	0.50	252.0	15.0	293.4	2.0	0	0.00	74.	1002.	2	NAD-SFC	NoSubs
7	6	13	164	5	-1.5	0.081	-9.000	-9.000	-999.	55.	31.4	0.2160	0.52	1.00	0.50	270.0	15.0	292.9	2.0	0	0.00	74.	1002.	2	NAD-SFC	NoSubs
7	6	13	164	6	20.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.45	0.00	0.0	15.0	292.8	2.0	0	0.00	75.	1003.	2	NAD-SFC	NoSubs
7	6	13	164	7	41.5	0.100	0.603	0.011	189.	76.	-2.2	0.2930	0.52	0.27	0.50	335.0	15.0	294.0	2.0	0	0.00	67.	1003.	2	NAD-SFC	NoSubs
7	6	13	164	8	86.8	-9.000	-9.000	-9.000	295.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	295.9	2.0	0	0.00	61.	1003.	2	NAD-SFC	NoSubs
7	6	13	164	9	126.3	-9.000	-9.000	-9.000	414.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	297.8	2.0	0	0.00	54.	1002.	2	NAD-SFC	NoSubs
7	6	13	164	10	157.8	-9.000	-9.000	-9.000	580.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.8	2.0	0	0.00	49.	1002.	2	NAD-SFC	NoSubs
7	6	13	164	11	179.8	-9.000	-9.000	-9.000	768.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.8	2.0	0	0.00	43.	1001.	2	NAD-SFC	NoSubs
7	6	13	164	12	190.5	-9.000	-9.000	-9.000	963.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.2	2.0	0	0.00	40.	1000.	2	NAD-SFC	NoSubs
7	6	13	164	13	190.8	-9.000	-9.000	-9.000	1055.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	304.5	2.0	0	0.00	37.	999.	2	NAD-SFC	NoSubs
7	6	13	164	14	180.3	0.185	1.789	0.009	1132.	191.	-3.1	0.2940	0.52	0.19	1.00	4.0	15.0	305.5	2.0	0	0.00	35.	998.	2	NAD-SFC	NoSubs

7	6	13	164	15	158.7	-9.000	-9.000	-9.000	1195.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	306.1	2.0	0	0.00	34.	998.	2	NAD-SFC NoSubs
7	6	13	164	16	127.4	0.333	1.645	0.008	1243.	462.	-25.8	0.2940	0.52	0.20	2.60	14.0	15.0	306.4	2.0	0	0.00	34.	997.	2	NAD-SFC NoSubs
7	6	13	164	17	87.8	0.322	1.465	0.008	1275.	440.	-34.0	0.2940	0.52	0.22	2.60	15.0	15.0	306.0	2.0	0	0.00	38.	997.	2	NAD-SFC NoSubs
7	6	13	164	18	42.6	0.259	1.156	0.008	1289.	318.	-36.1	0.2940	0.52	0.28	2.10	5.0	15.0	305.8	2.0	0	0.00	45.	997.	2	NAD-SFC NoSubs
7	6	13	164	19	-1.5	0.214	-9.000	-9.000	-999.	238.	574.7	0.2930	0.52	0.48	2.10	336.0	15.0	304.8	2.0	0	0.00	47.	997.	2	NAD-SFC NoSubs
7	6	13	164	20	-7.8	0.137	-9.000	-9.000	-999.	123.	29.3	0.2720	0.52	1.00	1.50	316.0	15.0	303.4	2.0	0	0.00	51.	997.	2	NAD-SFC NoSubs
7	6	13	164	21	-14.0	0.183	-9.000	-9.000	-999.	188.	39.0	0.2160	0.52	1.00	2.10	298.0	15.0	302.2	2.0	0	0.00	54.	998.	2	NAD-SFC NoSubs
7	6	13	164	22	-21.9	0.231	-9.000	-9.000	-999.	266.	49.9	0.2160	0.52	1.00	2.60	297.0	15.0	301.2	2.0	0	0.00	56.	998.	2	NAD-SFC NoSubs
7	6	13	164	23	-22.0	0.231	-9.000	-9.000	-999.	266.	49.8	0.2160	0.52	1.00	2.60	287.0	15.0	300.1	2.0	0	0.00	58.	998.	2	NAD-SFC NoSubs
7	6	13	164	24	-12.9	0.173	-9.000	-9.000	-999.	174.	35.8	0.1750	0.52	1.00	2.10	268.0	15.0	298.8	2.0	0	0.00	62.	998.	2	NAD-SFC NoSubs
7	6	14	165	1	-6.5	0.122	-9.000	-9.000	-999.	103.	25.0	0.1750	0.52	1.00	1.50	259.0	15.0	297.8	2.0	0	0.00	66.	998.	2	NAD-SFC NoSubs
7	6	14	165	2	-4.0	0.102	-9.000	-9.000	-999.	78.	23.7	0.2930	0.52	1.00	1.00	330.0	15.0	297.2	2.0	0	0.00	68.	998.	2	NAD-SFC NoSubs
7	6	14	165	3	-4.0	0.102	-9.000	-9.000	-999.	78.	23.7	0.2940	0.52	1.00	1.00	9.0	15.0	296.6	2.0	0	0.00	71.	998.	2	NAD-SFC NoSubs
7	6	14	165	4	-4.0	0.102	-9.000	-9.000	-999.	78.	23.7	0.2930	0.52	1.00	1.00	350.0	15.0	296.0	2.0	0	0.00	75.	998.	2	NAD-SFC NoSubs
7	6	14	165	5	-1.6	0.083	-9.000	-9.000	-999.	57.	31.7	0.2720	0.52	1.00	0.50	327.0	15.0	295.2	2.0	0	0.00	77.	998.	2	NAD-SFC NoSubs
7	6	14	165	6	-0.3	0.046	-9.000	-9.000	-999.	24.	27.0	0.2720	0.52	0.45	0.50	301.0	15.0	295.1	2.0	0	0.00	78.	998.	2	NAD-SFC NoSubs
7	6	14	165	7	42.3	0.258	0.567	0.007	153.	315.	-36.2	0.2930	0.52	0.27	2.10	339.0	15.0	296.4	2.0	0	0.00	70.	998.	2	NAD-SFC NoSubs
7	6	14	165	8	87.6	0.109	0.887	0.008	284.	105.	-1.3	0.2720	0.52	0.21	0.50	317.0	15.0	298.1	2.0	0	0.00	65.	998.	2	NAD-SFC NoSubs
7	6	14	165	9	127.3	-9.000	-9.000	-9.000	432.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	300.1	2.0	0	0.00	57.	997.	2	NAD-SFC NoSubs
7	6	14	165	10	158.8	-9.000	-9.000	-9.000	599.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.9	2.0	0	0.00	52.	997.	2	NAD-SFC NoSubs
7	6	14	165	11	180.8	-9.000	-9.000	-9.000	833.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.6	2.0	0	0.00	46.	997.	2	NAD-SFC NoSubs
7	6	14	165	12	191.5	-9.000	-9.000	-9.000	1008.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	305.0	2.0	0	0.00	43.	996.	2	NAD-SFC NoSubs
7	6	14	165	13	191.8	-9.000	-9.000	-9.000	1085.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	306.2	2.0	0	0.00	39.	995.	2	NAD-SFC NoSubs
7	6	14	165	14	181.4	0.121	1.806	0.009	1154.	100.	-1.0	0.2720	0.52	0.19	0.50	326.0	15.0	307.1	2.0	0	0.00	36.	994.	2	NAD-SFC NoSubs
7	6	14	165	15	159.8	0.182	1.760	0.009	1211.	186.	-3.3	0.2930	0.52	0.19	1.00	350.0	15.0	307.8	2.0	0	0.00	35.	994.	2	NAD-SFC NoSubs
7	6	14	165	16	128.6	0.229	1.657	0.008	1256.	263.	-8.3	0.2940	0.52	0.20	1.50	8.0	15.0	308.0	2.0	0	0.00	32.	993.	2	NAD-SFC NoSubs
7	6	14	165	17	89.0	0.277	1.477	0.008	1285.	350.	-21.1	0.2940	0.52	0.22	2.10	8.0	15.0	307.6	2.0	0	0.00	37.	993.	2	NAD-SFC NoSubs
7	6	14	165	18	43.7	-9.000	-9.000	-9.000	1298.	-999.	-99999.0	0.2235	0.52	0.28	0.00	0.0	15.0	307.0	2.0	0	0.00	46.	993.	2	NAD-SFC NoSubs
7	6	14	165	19	0.1	0.315	0.135	0.008	1295.	425.	-8888.0	0.2930	0.52	0.47	3.10	346.0	15.0	305.9	2.0	0	0.00	49.	994.	2	NAD-SFC NoSubs
7	6	14	165	20	-35.0	0.347	-9.000	-9.000	-999.	490.	105.9	0.2720	0.52	1.00	3.60	329.0	15.0	304.2	2.0	0	0.00	53.	994.	2	NAD-SFC NoSubs
7	6	14	165	21	-45.3	0.448	-9.000	-9.000	-999.	719.	175.6	0.2720	0.52	1.00	4.60	306.0	15.0	302.9	2.0	0	0.00	57.	994.	2	NAD-SFC NoSubs
7	6	14	165	22	-43.0	0.420	-9.000	-9.000	-999.	654.	152.9	0.2160	0.52	1.00	4.60	287.0	15.0	299.8	2.0	0	0.00	66.	995.	2	NAD-SFC NoSubs
7	6	14	165	23	-38.4	0.373	-9.000	-9.000	-999.	548.	119.6	0.2160	0.52	1.00	4.10	278.0	15.0	298.0	2.0	0	0.00	66.	995.	2	NAD-SFC NoSubs
7	6	14	165	24	-28.7	0.278	-9.000	-9.000	-999.	357.	66.5	0.2160	0.52	1.00	3.10	279.0	15.0	297.2	2.0	0	0.00	65.	995.	2	NAD-SFC NoSubs
7	6	15	166	1	-14.1	0.183	-9.000	-9.000	-999.	192.	38.6	0.2160	0.52	1.00	2.10	282.0	15.0	297.2	2.0	0	0.00	63.	995.	2	NAD-SFC NoSubs
7	6	15	166	2	-7.1	0.129	-9.000	-9.000	-999.	112.	26.7	0.2160	0.52	1.00	1.50	271.0	15.0	296.8	2.0	0	0.00	64.	996.	2	NAD-SFC NoSubs
7	6	15	166	3	-3.5	0.096	-9.000	-9.000	-999.	72.	22.4	0.2160	0.52	1.00	1.00	270.0	15.0	296.5	2.0	0	0.00	65.	996.	2	NAD-SFC NoSubs
7	6	15	166	4	-1.6	0.083	-9.000	-9.000	-999.	57.	31.7	0.2720	0.52	1.00	0.50	304.0	15.0	296.0	2.0	0	0.00	68.	996.	2	NAD-SFC NoSubs
7	6	15	166	5	-1.6	0.084	-9.000	-9.000	-999.	58.	31.9	0.2930	0.52	1.00	0.50	345.0	15.0	295.4	2.0	0	0.00	71.	996.	2	NAD-SFC NoSubs
7	6	15	166	6	-0.3	0.047	-9.000	-9.000	-999.	24.	27.5	0.2930	0.52	0.45	0.50	342.0	15.0	295.1	2.0	0	0.00	73.	997.	2	NAD-SFC NoSubs
7	6	15	166	7	42.3	0.154	0.578	0.009	162.	146.	-7.7	0.2930	0.52	0.27	1.00	347.0	15.0	296.6	2.0	0	0.00	67.	997.	2	NAD-SFC NoSubs
7	6	15	166	8	87.7	-9.000	-9.000	-9.000	309.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	298.5	2.0	0	0.00	62.	997.	2	NAD-SFC NoSubs
7	6	15	166	9	127.4	-9.000	-9.000	-9.000	463.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	300.5	2.0	0	0.00	54.	997.	2	NAD-SFC NoSubs
7	6	15	166	10	158.9	-9.000	-9.000	-9.000	628.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.2	2.0	0	0.00	50.	997.	2	NAD-SFC NoSubs
7	6	15	166	11	180.8	-9.000	-9.000	-9.000	811.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.8	2.0	0	0.00	46.	997.	2	NAD-SFC NoSubs
7	6	15	166	12	191.6	-9.000	-9.000	-9.000	976.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	305.2	2.0	0	0.00	43.	996.	2	NAD-SFC NoSubs
7	6	15	166	13	192.0	-9.000	-9.000	-9.000	1091.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	306.5	2.0	0	0.00	38.	995.	2	NAD-SFC NoSubs
7	6	15	166	14	181.7	0.123	1.825	0.007	1190.	103.	-1.0	0.2930	0.52	0.19	0.50	357.0	15.0	307.5	2.0	0	0.00	35.	995.	2	NAD-SFC NoSubs
7	6	15	166	15	160.2	0.182	1.790	0.007	1271.	187.	-3.3	0.2940	0.52	0.19	1.00	15.0	15.0	308.1	2.0	0	0.00	33.	994.	2	NAD-SFC NoSubs
7	6	15	166	16	128.9	0.229	1.691	0.007	1332.	263.	-8.3	0.2940	0.52	0.20	1.50	14.0	15.0	308.2	2.0	0	0.00	32.	994.	2	NAD-SFC NoSubs
7	6	15	166	17	89.6	0.277	1.513	0.007	1372.	350.	-21.1	0.2940	0.52	0.22	2.10	9.0	15.0	308.2	2.0	0	0.00	34.	994.	2	NAD-SFC NoSubs
7	6	15	166	18	44.5	0.255	1.204	0.007	1390.	310.	-33.1	0.2720	0.52	0.28	2.10	316.0	15.0	307.9	2.0	0	0.00	42.	994.	2	NAD-SFC NoSubs
7	6	15	166	19	-0.8	0.489	-9.000	-9.000	-999.	821.	8888.0	0.2160	0.52	0.47	5.10	285.0	15.0	305.0	2.0	0	0.00	50.	995.	2	NAD-SFC NoSubs
7	6	15	166	20	-42.9	0.420	-9.000	-9.000	-999.	658.	153.5	0.2160	0.52	1.00	4.60	277.0	15.0	300.9	2.0	0	0.00	57.	996.	2	NAD-SFC NoSubs
7	6	15	166	21	-37.4	0.373	-9.000	-9.000	-999.	548.	123.1	0.2160	0.52	1.00	4.10	280.0	15.0	298.5	2.0	0	0.00	63.	997.	3	NAD-SFC NoSubs
7	6	15	166	22	-33.7	0.325	-9.000	-9.000	-999.	447.	90.9	0.2160	0.52	1.00	3.60	295.0	15.0	297.2	2.0	0	0.00	65.	997.	2	NAD-SFC NoSubs
7	6	15	166	23	-30.8	0.297	-9.000	-9.000	-999.	388.	75.4	0.2720	0.52	1.00	3.10	321.0	15.0	296.4	2.0	0	0.00	65.	998.	2	NAD-SFC NoSubs
7	6	15	166	24	-36.9	0.355	-9.000	-9.000	-999.	507.	107.6	0.2940	0.52	1.00	3.60	13.0	15.0	295.8	2.0	0	0.00	67.	998.	2	NAD-SFC NoSubs
7	6	16	167	1	-47.9	0.458	-9.000	-9.000	-999.	743.	178.5	0.2940	0.52	1.00	4.60	10.0	15.0	294.6	2.0	0	0.00	73.	999.	2	NAD-SFC NoSubs
7	6	16	167	2	-48.0	0.457	-9.000	-9.000	-999.	742.	177.6	0.2930	0.52	1.00	4.60	347.0	15.0	293.8	2.0	0	0.00	75.	999.	2	NAD-SFC NoSubs
7	6	16	167	3	-42.7	0.406	-9.000	-9.000	-999.	623.	139.4	0.2930	0.52	1.00	4.10	340.0	15.0	292.9	2.0	0	0.00	77.	999.	2	NAD-SFC NoSubs
7	6	16	167	4	-36.6	0.347	-9.000	-9.000	-999.	492.	101.5	0.2720	0.52	1.00	3.60	320.0	15.0	292.2	2.0	0	0.00	79.	999.	2	NAD-SFC NoSubs
7	6	16	167	5	-36.7	0.347	-9.000	-9.000	-999.	490.	101.3	0.2720	0.52	1.00	3.60	319.0	15.0	291.6	2.0	0	0.00	81.	1000.	2	NAD-SFC NoSubs
7	6	16	167	6	-3.5	0.311	-9.000	-9.000	-999.	416.	773.8	0.2720	0.52	0.45	3.10	311.0	15.0	291.9	2.0	0	0.00	78.	1000.	3	NAD-SFC NoSubs
7	6	16	167	7	42.2	0.242	0.565	0.009	152.	287.	-29.9	0.2160	0.52	0.27	2.10	299.0	15.0	293.5	2.0	0	0.00	69.	1001.	3	NAD-SFC NoSubs
7	6	16	167	8	86.6	0.103	0.856	0.010	258.	95.	-1.1	0.2160	0.52	0.21	0.50	287.0	15.0	295.8	2.0	0	0.00	60.	1001.	2	NAD-SFC NoSubs
7	6	16	167	9	126.1	-9.000	-9.000	-9.000	372.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	297.6	2.0	0	0.00	54.	1000.	2	NAD-SFC NoSubs
7	6	16	167	10	157.6	-9.000	-9.000	-9.000	533.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.4	2.0	0	0.00	49.	1000.	2	NAD-SFC NoSubs
7	6	16	167	11	179.6	-9.000	-9.000	-9.000	695.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.2	2.0	0	0.00	44.	1000.	2	NAD-SFC NoSubs
7	6	16	167	12	190.0	-9.000	-9.000	-9.000	883.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.6	2.0	0	0.00	40.	999.	3	NAD-SFC NoSubs
7	6	16	167	13	190.3	0.123	1.761	0.006	1023.	104.	-1.0	0.2930	0.52	0.19	0.50	330.0	15.0	303.8	2.0	0	0.00	37.	998.	3	NAD-SFC NoSubs
7	6	16	167	14	180.0	0.185	1.783	0.006	1123.	190.	-3.1	0.2930	0.52	0.19	1.00	339.0	15.0	304.6	2.0	0	0.00	35.	998.	3	NAD-SFC NoSubs
7	6	16	167	15	158.7	0.293	1.751	0.005	1205.	381.	-14.1	0.2930	0.52	0.19	2.10	330.0	15.0	305.2	2.0	0	0.00	33.	998.	3	NAD-SFC NoSubs
7	6	16	167	16	127.7	0.418	1.655	0.005	1266.	649.	-51.0	0.2720	0.52	0.20	3.60	323.0	15.0	305.2	2.0	0	0.00	33.	998.	3	NAD-SFC NoSubs
7	6	16	167	17	88.2	0.362	1.478	0.005	1305.	526.	-48.0	0.2720	0.52	0.22	3.10	302.0	15.0	304.2	2.0	0	0.00	43.	998.	3	NAD-SFC NoSubs
7	6	16	167	18	41.7	0.458	1.156	0.005	1319.	743.	-204.4	0.2160	0.52	0.28	4.60	285.0	15.0	302.4	2.0	0	0.00	51.	998.	2	NAD-SFC NoSubs
7	6	16	167	19	-9.4	0.483	-9.000	-9.000	-999.	805.	1061.3	0.2160	0.52	0.47	5.10	274.0	15.0	299.4	2.0	0	0.00	58.	999.	2	NAD-SFC NoSubs

7	6	16	167	20	-43.6	0.420	-9.000	-9.000	-999.	657.	151.4	0.2160	0.52	1.00	4.60	271.0	15.0	296.9	2.0	0	0.00	64.	999.	2	NAD-SFC	NoSubs
7	6	16	167	21	-46.3	0.443	-9.000	-9.000	-999.	707.	167.1	0.1750	0.52	1.00	5.10	257.0	15.0	294.8	2.0	0	0.00	71.	999.	2	NAD-SFC	NoSubs
7	6	16	167	22	-41.8	0.398	-9.000	-9.000	-999.	604.	134.2	0.1750	0.52	1.00	4.60	257.0	15.0	293.4	2.0	0	0.00	75.	1000.	2	NAD-SFC	NoSubs
7	6	16	167	23	-31.7	0.308	-9.000	-9.000	-999.	416.	82.5	0.1750	0.52	1.00	3.60	257.0	15.0	292.6	2.0	0	0.00	79.	1000.	3	NAD-SFC	NoSubs
7	6	16	167	24	-20.1	0.218	-9.000	-9.000	-999.	249.	46.1	0.1750	0.52	1.00	2.60	250.0	15.0	292.0	2.0	0	0.00	81.	1000.	3	NAD-SFC	NoSubs
7	6	17	168	1	-6.7	0.125	-9.000	-9.000	-999.	110.	26.4	0.1950	0.52	1.00	1.50	236.0	15.0	291.8	2.0	0	0.00	82.	1000.	4	NAD-SFC	NoSubs
7	6	17	168	2	-3.1	0.091	-9.000	-9.000	-999.	66.	21.5	0.1750	0.52	1.00	1.00	259.0	15.0	291.4	2.0	0	0.00	82.	1001.	5	NAD-SFC	NoSubs
7	6	17	168	3	-3.3	0.094	-9.000	-9.000	-999.	69.	22.4	0.2160	0.52	1.00	1.00	277.0	15.0	291.2	2.0	0	0.00	82.	1001.	5	NAD-SFC	NoSubs
7	6	17	168	4	-7.0	0.129	-9.000	-9.000	-999.	111.	27.3	0.2160	0.52	1.00	1.50	288.0	15.0	291.0	2.0	0	0.00	82.	1001.	4	NAD-SFC	NoSubs
7	6	17	168	5	-1.4	0.079	-9.000	-9.000	-999.	54.	30.8	0.2160	0.52	1.00	0.50	299.0	15.0	290.9	2.0	0	0.00	83.	1001.	4	NAD-SFC	NoSubs
7	6	17	168	6	-0.2	0.048	-9.000	-9.000	-999.	25.	58.3	0.2720	0.52	0.45	0.50	302.0	15.0	291.2	2.0	0	0.00	81.	1001.	4	NAD-SFC	NoSubs
7	6	17	168	7	41.9	0.094	0.621	0.006	204.	69.	-1.8	0.2160	0.52	0.27	0.50	287.0	15.0	292.8	2.0	0	0.00	74.	1001.	3	NAD-SFC	NoSubs
7	6	17	168	8	86.6	-9.000	-9.000	-9.000	408.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	294.2	2.0	0	0.00	69.	1001.	3	NAD-SFC	NoSubs
7	6	17	168	9	125.5	-9.000	-9.000	-9.000	613.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	295.5	2.0	0	0.00	66.	1001.	3	NAD-SFC	NoSubs
7	6	17	168	10	156.7	-9.000	-9.000	-9.000	751.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.2	2.0	0	0.00	62.	1000.	3	NAD-SFC	NoSubs
7	6	17	168	11	178.4	-9.000	-9.000	-9.000	870.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.0	2.0	0	0.00	57.	999.	3	NAD-SFC	NoSubs
7	6	17	168	12	189.0	-9.000	-9.000	-9.000	980.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.4	2.0	0	0.00	53.	998.	3	NAD-SFC	NoSubs
7	6	17	168	13	189.3	-9.000	-9.000	-9.000	1071.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.8	2.0	0	0.00	49.	997.	3	NAD-SFC	NoSubs
7	6	17	168	14	179.1	-9.000	-9.000	-9.000	1151.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.8	2.0	0	0.00	45.	996.	3	NAD-SFC	NoSubs
7	6	17	168	15	158.0	0.182	1.755	0.011	1218.	186.	-3.4	0.2940	0.52	0.19	1.00	13.0	15.0	303.5	2.0	0	0.00	43.	996.	3	NAD-SFC	NoSubs
7	6	17	168	16	127.1	0.287	1.655	0.012	1268.	368.	-16.4	0.2940	0.52	0.20	2.10	18.0	15.0	303.8	2.0	0	0.00	43.	995.	3	NAD-SFC	NoSubs
7	6	17	168	17	88.2	0.323	1.478	0.012	1302.	440.	-33.8	0.2940	0.52	0.22	2.60	28.0	15.0	303.8	2.0	0	0.00	44.	995.	3	NAD-SFC	NoSubs
7	6	17	168	18	43.6	0.249	1.174	0.012	1317.	301.	-31.6	0.2470	0.52	0.28	2.10	42.0	15.0	303.4	2.0	0	0.00	52.	995.	3	NAD-SFC	NoSubs
7	6	17	168	19	0.5	0.255	0.270	0.012	1316.	308.	-2769.0	0.2470	0.52	0.47	2.60	32.0	15.0	302.8	2.0	0	0.00	53.	996.	3	NAD-SFC	NoSubs
7	6	17	168	20	-15.4	0.196	-9.000	-9.000	-999.	209.	43.3	0.2720	0.52	1.00	2.10	322.0	15.0	301.8	2.0	0	0.00	55.	996.	3	NAD-SFC	NoSubs
7	6	17	168	21	-47.0	0.468	-9.000	-9.000	-999.	768.	193.6	0.2160	0.52	1.00	5.10	285.0	15.0	298.2	2.0	0	0.00	65.	996.	3	NAD-SFC	NoSubs
7	6	17	168	22	-42.7	0.420	-9.000	-9.000	-999.	656.	154.6	0.2160	0.52	1.00	4.60	285.0	15.0	295.2	2.0	0	0.00	70.	997.	3	NAD-SFC	NoSubs
7	6	17	168	23	-38.0	0.373	-9.000	-9.000	-999.	548.	121.1	0.2160	0.52	1.00	4.10	283.0	15.0	294.0	2.0	0	0.00	72.	997.	3	NAD-SFC	NoSubs
7	6	17	168	24	-33.2	0.325	-9.000	-9.000	-999.	447.	92.1	0.2160	0.52	1.00	3.60	289.0	15.0	293.2	2.0	0	0.00	74.	996.	3	NAD-SFC	NoSubs
7	6	18	169	1	-28.5	0.278	-9.000	-9.000	-999.	353.	67.2	0.2160	0.52	1.00	3.10	290.0	15.0	292.6	2.0	0	0.00	75.	997.	3	NAD-SFC	NoSubs
7	6	18	169	2	-7.8	0.137	-9.000	-9.000	-999.	136.	29.1	0.2720	0.52	1.00	1.50	302.0	15.0	292.4	2.0	0	0.00	74.	997.	3	NAD-SFC	NoSubs
7	6	18	169	3	-3.5	0.096	-9.000	-9.000	-999.	72.	22.4	0.2160	0.52	1.00	1.00	294.0	15.0	292.2	2.0	0	0.00	73.	997.	3	NAD-SFC	NoSubs
7	6	18	169	4	-3.3	0.093	-9.000	-9.000	-999.	68.	21.6	0.1750	0.52	1.00	1.00	265.0	15.0	292.2	2.0	0	0.00	73.	998.	3	NAD-SFC	NoSubs
7	6	18	169	5	-3.5	0.096	-9.000	-9.000	-999.	71.	22.4	0.2160	0.52	1.00	1.00	271.0	15.0	292.0	2.0	0	0.00	74.	998.	3	NAD-SFC	NoSubs
7	6	18	169	6	-0.3	0.043	-9.000	-9.000	-999.	22.	26.4	0.2160	0.52	0.45	0.50	285.0	15.0	292.0	2.0	0	0.00	74.	998.	3	NAD-SFC	NoSubs
7	6	18	169	7	42.1	0.100	0.595	0.009	178.	76.	-2.1	0.2930	0.52	0.27	0.50	336.0	15.0	293.8	2.0	0	0.00	64.	999.	3	NAD-SFC	NoSubs
7	6	18	169	8	86.9	-9.000	-9.000	-9.000	318.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	295.2	2.0	0	0.00	56.	999.	3	NAD-SFC	NoSubs
7	6	18	169	9	126.0	-9.000	-9.000	-9.000	467.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.9	2.0	0	0.00	52.	998.	3	NAD-SFC	NoSubs
7	6	18	169	10	157.2	-9.000	-9.000	-9.000	625.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.8	2.0	0	0.00	46.	998.	2	NAD-SFC	NoSubs
7	6	18	169	11	179.0	-9.000	-9.000	-9.000	847.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.5	2.0	0	0.00	43.	997.	3	NAD-SFC	NoSubs
7	6	18	169	12	189.8	0.121	1.756	0.010	1016.	101.	-1.0	0.2720	0.52	0.19	0.50	328.0	15.0	302.1	2.0	0	0.00	40.	996.	3	NAD-SFC	NoSubs
7	6	18	169	13	190.5	-9.000	-9.000	-9.000	1116.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.5	2.0	0	0.00	38.	996.	2	NAD-SFC	NoSubs
7	6	18	169	14	180.4	0.123	1.828	0.012	1204.	103.	-1.0	0.2930	0.52	0.19	0.50	332.0	15.0	304.6	2.0	0	0.00	36.	995.	2	NAD-SFC	NoSubs
7	6	18	169	15	159.0	0.182	1.787	0.013	1276.	186.	-3.4	0.2930	0.52	0.19	1.00	352.0	15.0	305.2	2.0	0	0.00	35.	995.	2	NAD-SFC	NoSubs
7	6	18	169	16	127.9	0.229	1.686	0.013	1331.	262.	-8.3	0.2930	0.52	0.20	1.50	360.0	15.0	305.6	2.0	0	0.00	34.	995.	2	NAD-SFC	NoSubs
7	6	18	169	17	88.7	0.277	1.501	0.012	1356.	350.	-21.2	0.2940	0.52	0.22	2.10	16.0	15.0	305.6	2.0	0	0.00	35.	995.	2	NAD-SFC	NoSubs
7	6	18	169	18	43.8	-9.000	-9.000	-9.000	1366.	-999.	-99999.0	0.2235	0.52	0.28	0.00	0.0	15.0	305.4	2.0	0	0.00	42.	995.	2	NAD-SFC	NoSubs
7	6	18	169	19	1.1	0.482	0.351	0.012	1363.	803.	-8860.8	0.2160	0.52	0.47	5.10	291.0	15.0	303.5	2.0	0	0.00	49.	997.	3	NAD-SFC	NoSubs
7	6	18	169	20	-48.2	0.468	-9.000	-9.000	-999.	768.	188.5	0.2160	0.52	1.00	5.10	270.0	15.0	298.2	2.0	0	0.00	64.	997.	2	NAD-SFC	NoSubs
7	6	18	169	21	-48.7	0.468	-9.000	-9.000	-999.	767.	186.9	0.2160	0.52	1.00	5.10	278.0	15.0	295.8	2.0	0	0.00	65.	998.	2	NAD-SFC	NoSubs
7	6	18	169	22	-39.0	0.373	-9.000	-9.000	-999.	552.	118.0	0.2160	0.52	1.00	4.10	290.0	15.0	294.2	2.0	0	0.00	67.	999.	2	NAD-SFC	NoSubs
7	6	18	169	23	-31.2	0.296	-9.000	-9.000	-999.	391.	74.5	0.2720	0.52	1.00	3.10	307.0	15.0	293.2	2.0	0	0.00	69.	1000.	2	NAD-SFC	NoSubs
7	6	18	169	24	-25.4	0.252	-9.000	-9.000	-999.	304.	56.1	0.2930	0.52	1.00	2.60	350.0	15.0	292.8	2.0	0	0.00	70.	1000.	3	NAD-SFC	NoSubs
7	6	19	170	1	-31.3	0.304	-9.000	-9.000	-999.	401.	79.8	0.2940	0.52	1.00	3.10	22.0	15.0	292.1	2.0	0	0.00	72.	1001.	3	NAD-SFC	NoSubs
7	6	19	170	2	-25.5	0.252	-9.000	-9.000	-999.	305.	56.0	0.2940	0.52	1.00	2.60	25.0	15.0	291.4	2.0	0	0.00	75.	1001.	3	NAD-SFC	NoSubs
7	6	19	170	3	-25.5	0.252	-9.000	-9.000	-999.	304.	55.9	0.2940	0.52	1.00	2.60	8.0	15.0	290.8	2.0	0	0.00	77.	1001.	3	NAD-SFC	NoSubs
7	6	19	170	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	290.2	2.0	0	0.00	79.	1001.	2	NAD-SFC	NoSubs
7	6	19	170	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	289.9	2.0	0	0.00	79.	1001.	2	NAD-SFC	NoSubs
7	6	19	170	6	-3.5	0.147	-9.000	-9.000	-999.	135.	81.6	0.2930	0.52	0.45	1.50	336.0	15.0	290.4	2.0	0	0.00	76.	1001.	2	NAD-SFC	NoSubs
7	6	19	170	7	40.4	0.151	0.555	0.013	151.	141.	-7.6	0.2720	0.52	0.27	1.00	323.0	15.0	292.2	2.0	0	0.00	67.	1001.	2	NAD-SFC	NoSubs
7	6	19	170	8	85.7	-9.000	-9.000	-9.000	264.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	294.2	2.0	0	0.00	60.	1001.	2	NAD-SFC	NoSubs
7	6	19	170	9	125.3	-9.000	-9.000	-9.000	395.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.1	2.0	0	0.00	55.	1001.	2	NAD-SFC	NoSubs
7	6	19	170	10	156.9	-9.000	-9.000	-9.000	522.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.1	2.0	0	0.00	51.	1001.	2	NAD-SFC	NoSubs
7	6	19	170	11	179.1	-9.000	-9.000	-9.000	638.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.4	2.0	0	0.00	45.	1001.	2	NAD-SFC	NoSubs
7	6	19	170	12	190.1	-9.000	-9.000	-9.000	771.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.1	2.0	0	0.00	40.	1000.	2	NAD-SFC	NoSubs
7	6	19	170	13	190.6	0.123	1.681	0.011	891.	104.	-1.0	0.2930	0.52	0.19	0.50	336.0	15.0	303.6	2.0	0	0.00	36.	1000.	2	NAD-SFC	NoSubs
7	6	19	170	14	180.5	0.122	1.708	0.011	986.	103.	-1.0	0.2930	0.52	0.19	0.50	352.0	15.0	304.8	2.0	0	0.00	34.	1000.	2	NAD-SFC	NoSubs
7	6	19	170	15	159.2	0.234	1.672	0.010	1048.	272.	-7.2	0.2930	0.52	0.19	1.50	346.0	15.0	305.4	2.0	0	0.00	33.	999.	2	NAD-SFC	NoSubs
7	6	19	170	16	128.4	0.287	1.580	0.010	1096.	368.	-16.3	0.2930	0.52	0.20	2.10	330.0	15.0	306.2	2.0	0	0.00	28.	999.	2	NAD-SFC	NoSubs
7	6	19	170	17	89.0	0.317	1.411	0.010	1126.	429.	-32.0	0.2720	0.52	0.22	2.60	315.0	15.0	305.8	2.0	0	0.00	35.	999.	2	NAD-SFC	NoSubs
7	6	19	170	18	43.4	0.390	1.115	0.010	1138.	585.	-122.0	0.2720	0.52	0.28	3.60	301.0	15.0	304.4	2.0	0	0.00	43.	1000.	2	NAD-SFC	NoSubs
7	6	19	170	19	-5.1	0.486	-9.000	-9.000	-999.	812.	2007.0	0.2160	0.52	0.46	5.10	294.0	15.0	301.2	2.0	0	0.00	49.	1001.	2	NAD-SFC	NoSubs
7	6	19	170	20	-48.5	0.468	-9.000	-9.000	-999.	768.	188.4	0.2160	0.52	1.00	5.10	278.0	15.0	298.0	2.0	0	0.00	55.	1002.	2	NAD-SFC	NoSubs
7	6	19	170	21	-43.9	0.420	-9.000	-9.000	-999.	655.	150.7	0.2160	0.52	1.00	4.60	276.0	15.0	295.6	2.0	0	0.00	61.	1002.	2	NAD-SFC	NoSubs
7	6	19	170	22	-39.2	0.372	-9.000	-9.000	-999.	547.	117.9	0.2160	0.52	1.00	4.10	286.0	15.0	294.0	2.0	0	0.00	65.	1003.	2	NAD-SFC	NoSubs
7	6	19	170	23	-31.3	0.296	-9.000	-9.000	-999.	391.	74.4	0.2720	0.52	1.00	3.10	314.0	15.0	293.0	2.0	0	0.00	66.	1004.	2	NAD-SFC	NoSubs
7	6	19	170	24	-32.1	0.303	-9.000	-9.000	-999.	400.	77.6	0.2930	0.52	1.00	3.10	338.0	15.0	292.2	2.0	0	0.00	67.	1004.	2	NAD-SFC	NoSubs

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 7  6 20 171   1  -36.8  0.355 -9.000 -9.000 -999.  507.    108.9 0.2940  0.52  1.00  3.60   11.0  15.0 291.4  2.0    0  0.00   70. 1005.     3 NAD-SFC NoSubs
 7  6 20 171   2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00    0.0  15.0 290.8  2.0    0  0.00   72. 1005.     3 NAD-SFC NoSubs
 7  6 20 171   3  -31.6  0.303 -9.000 -9.000 -999.  401.     79.1 0.2930  0.52  1.00  3.10  341.0  15.0 290.2  2.0    0  0.00   72. 1005.     3 NAD-SFC NoSubs
 7  6 20 171   4  -31.7  0.296 -9.000 -9.000 -999.  387.     73.6 0.2720  0.52  1.00  3.10  321.0  15.0 289.8  2.0    0  0.00   72. 1005.     2 NAD-SFC NoSubs
 7  6 20 171   5  -31.8  0.296 -9.000 -9.000 -999.  387.     73.4 0.2720  0.52  1.00  3.10  318.0  15.0 289.0  2.0    0  0.00   73. 1005.     2 NAD-SFC NoSubs
 7  6 20 171   6   -6.6  0.254 -9.000 -9.000 -999.  309.    225.1 0.2720  0.52  0.45  2.60  321.0  15.0 289.4  2.0    0  0.00   70. 1005.     2 NAD-SFC NoSubs
 7  6 20 171   7   40.0  0.198  0.557  0.011  155.  213.    -17.5 0.2720  0.52  0.27  1.50  307.0  15.0 291.1  2.0    0  0.00   60. 1006.     2 NAD-SFC NoSubs
 7  6 20 171   8   85.2 -9.000 -9.000 -9.000  277. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0 293.1  2.0    0  0.00   54. 1006.     2 NAD-SFC NoSubs
 7  6 20 171   9  124.7 -9.000 -9.000 -9.000  413. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 294.9  2.0    0  0.00   49. 1005.     2 NAD-SFC NoSubs
 7  6 20 171  10  156.3 -9.000 -9.000 -9.000  539. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 296.8  2.0    0  0.00   46. 1005.     2 NAD-SFC NoSubs
 7  6 20 171  11  178.2 -9.000 -9.000 -9.000  655. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 298.5  2.0    0  0.00   42. 1005.     2 NAD-SFC NoSubs
 7  6 20 171  12  189.1 -9.000 -9.000 -9.000  785. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 300.1  2.0    0  0.00   40. 1004.     2 NAD-SFC NoSubs
 7  6 20 171  13  189.7  0.123  1.681  0.008  898.  104.    -1.0 0.2930  0.52  0.19  0.50  336.0  15.0 301.6  2.0    0  0.00   35. 1004.     2 NAD-SFC NoSubs
 7  6 20 171  14  179.5  0.184  1.708  0.009  995.  190.    -3.1 0.2930  0.52  0.19  1.00  357.0  15.0 302.6  2.0    0  0.00   33. 1003.     2 NAD-SFC NoSubs
 7  6 20 171  15  158.2 -9.000 -9.000 -9.000 1078. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 303.2  2.0    0  0.00   32. 1003.     2 NAD-SFC NoSubs
 7  6 20 171  16  127.1 -9.000 -9.000 -9.000 1139. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 303.5  2.0    0  0.00   32. 1003.     2 NAD-SFC NoSubs
 7  6 20 171  17   87.8  0.322  1.425  0.009 1179.  439.    -34.1 0.2940  0.52  0.22  2.60    8.0  15.0 303.2  2.0    0  0.00   35. 1003.     2 NAD-SFC NoSubs
 7  6 20 171  18   42.7  0.305  1.126  0.009 1197.  404.    -59.2 0.2940  0.52  0.28  2.60   21.0  15.0 302.6  2.0    0  0.00   45. 1003.     2 NAD-SFC NoSubs
 7  6 20 171  19   -2.2  0.320 -9.000 -9.000  999.  434.   1356.6 0.2940  0.52  0.46  3.10   16.0  15.0 301.9  2.0    0  0.00   47. 1003.     2 NAD-SFC NoSubs
 7  6 20 171  20  -25.4  0.252 -9.000 -9.000 -999.  305.     56.1 0.2930  0.52  1.00  2.60  346.0  15.0 300.8  2.0    0  0.00   48. 1003.     2 NAD-SFC NoSubs
 7  6 20 171  21  -43.7  0.420 -9.000 -9.000 -999.  653.    151.8 0.2160  0.52  1.00  4.60  278.0  15.0 297.8  2.0    0  0.00   53. 1004.     2 NAD-SFC NoSubs
 7  6 20 171  22  -49.2  0.467 -9.000 -9.000 -999.  766.    185.9 0.2160  0.52  1.00  5.10  281.0  15.0 294.2  2.0    0  0.00   60. 1004.     2 NAD-SFC NoSubs
 7  6 20 171  23  -39.4  0.372 -9.000 -9.000 -999.  552.    117.5 0.2160  0.52  1.00  4.10  276.0  15.0 292.9  2.0    0  0.00   64. 1004.     2 NAD-SFC NoSubs
 7  6 20 171  24  -29.4  0.278 -9.000 -9.000 -999.  357.     65.3 0.2160  0.52  1.00  3.10  296.0  15.0 292.4  2.0    0  0.00   67. 1004.     2 NAD-SFC NoSubs
 7  6 21 172   1  -31.4  0.296 -9.000 -9.000 -999.  387.     74.2 0.2720  0.52  1.00  3.10  317.0  15.0 292.2  2.0    0  0.00   68. 1004.     2 NAD-SFC NoSubs
 7  6 21 172   2  -32.1  0.303 -9.000 -9.000 -999.  400.     77.5 0.2930  0.52  1.00  3.10  340.0  15.0 291.9  2.0    0  0.00   71. 1004.     2 NAD-SFC NoSubs
 7  6 21 172   3  -25.8  0.252 -9.000 -9.000 -999.  304.     55.1 0.2930  0.52  1.00  2.60  347.0  15.0 291.4  2.0    0  0.00   76. 1004.     2 NAD-SFC NoSubs
 7  6 21 172   4   -8.3  0.140 -9.000 -9.000 -999.  132.     29.5 0.2930  0.52  1.00  1.50  354.0  15.0 290.8  2.0    0  0.00   79. 1005.     2 NAD-SFC NoSubs
 7  6 21 172   5   -4.1  0.102 -9.000 -9.000 -999.   79.     23.6 0.2930  0.52  1.00  1.00  352.0  15.0 290.1  2.0    0  0.00   82. 1005.     2 NAD-SFC NoSubs
 7  6 21 172   6   -0.5  0.050 -9.000 -9.000 -999.   27.     23.3 0.2720  0.52  0.45  0.50  327.0  15.0 290.0  2.0    0  0.00   84. 1005.     2 NAD-SFC NoSubs
 7  6 21 172   7   39.8  0.153  0.621  0.012  216.  144.     -8.1 0.2930  0.52  0.27  1.00  346.0  15.0 291.2  2.0    0  0.00   76. 1006.     2 NAD-SFC NoSubs
 7  6 21 172   8   85.1 -9.000 -9.000 -9.000  291. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0 293.2  2.0    0  0.00   67. 1005.     2 NAD-SFC NoSubs
 7  6 21 172   9  124.7 -9.000 -9.000 -9.000  375. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 295.0  2.0    0  0.00   60. 1005.     2 NAD-SFC NoSubs
 7  6 21 172  10  156.3 -9.000 -9.000 -9.000  538. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 296.9  2.0    0  0.00   52. 1005.     2 NAD-SFC NoSubs
 7  6 21 172  11  178.3 -9.000 -9.000 -9.000  705. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 298.8  2.0    0  0.00   45. 1004.     2 NAD-SFC NoSubs
 7  6 21 172  12  189.2  0.115  1.671  0.009  883.   94.    -1.0 0.2160  0.52  0.19  0.50  296.0  15.0 300.2  2.0    0  0.00   41. 1003.     2 NAD-SFC NoSubs
 7  6 21 172  13  189.6  0.121  1.750  0.010 1012.  101.    -1.0 0.2720  0.52  0.19  0.50  328.0  15.0 301.4  2.0    0  0.00   38. 1003.     2 NAD-SFC NoSubs
 7  6 21 172  14  179.4  0.238  1.766  0.011 1099.  279.    -6.7 0.2930  0.52  0.19  1.50  355.0  15.0 302.2  2.0    0  0.00   37. 1002.     2 NAD-SFC NoSubs
 7  6 21 172  15  158.0  0.340  1.728  0.012 1169.  476.    -22.2 0.2930  0.52  0.19  2.60  351.0  15.0 302.8  2.0    0  0.00   37. 1002.     2 NAD-SFC NoSubs
 7  6 21 172  16  127.0  0.425  1.631  0.012 1223.  666.    -54.1 0.2940  0.52  0.20  3.60    2.0  15.0 302.9  2.0    0  0.00   39. 1001.     2 NAD-SFC NoSubs
 7  6 21 172  17   87.6  0.414  1.455  0.013 1257.  640.    -72.3 0.2940  0.52  0.22  3.60    1.0  15.0 302.5  2.0    0  0.00   45. 1001.     2 NAD-SFC NoSubs
 7  6 21 172  18   42.6  0.350  1.150  0.013 1273.  500.    -89.9 0.2930  0.52  0.28  3.10  348.0  15.0 302.0  2.0    0  0.00   55. 1001.     2 NAD-SFC NoSubs
 7  6 21 172  19    0.3  0.417  0.209  0.013 1270.  646.  -8888.0 0.2930  0.52  0.46  4.10  348.0  15.0 300.8  2.0    0  0.00   60. 1002.     3 NAD-SFC NoSubs
 7  6 21 172  20  -40.9  0.406 -9.000 -9.000 -999.  621.    146.1 0.2930  0.52  1.00  4.10  340.0  15.0 298.8  2.0    0  0.00   66. 1002.     3 NAD-SFC NoSubs
 7  6 21 172  21  -35.9  0.355 -9.000 -9.000 -999.  509.    110.9 0.2930  0.52  1.00  3.60  337.0  15.0 297.2  2.0    0  0.00   69. 1002.     3 NAD-SFC NoSubs
 7  6 21 172  22  -36.1  0.355 -9.000 -9.000 -999.  507.    110.5 0.2930  0.52  1.00  3.60  341.0  15.0 296.2  2.0    0  0.00   70. 1003.     3 NAD-SFC NoSubs
 7  6 21 172  23  -35.4  0.347 -9.000 -9.000 -999.  491.    105.5 0.2720  0.52  1.00  3.60  328.0  15.0 295.4  2.0    0  0.00   73. 1003.     3 NAD-SFC NoSubs
 7  6 21 172  24  -37.3  0.354 -9.000 -9.000 -999.  506.    106.8 0.2930  0.52  1.00  3.60  338.0  15.0 294.1  2.0    0  0.00   76. 1003.     2 NAD-SFC NoSubs
 7  6 22 173   1  -32.0  0.303 -9.000 -9.000 -999.  402.     77.8 0.2930  0.52  1.00  3.10  347.0  15.0 293.2  2.0    0  0.00   78. 1003.     2 NAD-SFC NoSubs
 7  6 22 173   2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00    0.0  15.0 292.4  2.0    0  0.00   79. 1003.     2 NAD-SFC NoSubs
 7  6 22 173   3  -16.6  0.200 -9.000 -9.000 -999.  215.     43.1 0.2940  0.52  1.00  2.10   15.0  15.0 291.8  2.0    0  0.00   80. 1003.     2 NAD-SFC NoSubs
 7  6 22 173   4   -8.3  0.140 -9.000 -9.000 -999.  126.     29.5 0.2940  0.52  1.00  1.50   21.0  15.0 291.2  2.0    0  0.00   81. 1003.     2 NAD-SFC NoSubs
 7  6 22 173   5   -1.7  0.084 -9.000 -9.000 -999.   59.     32.0 0.2930  0.52  1.00  0.50  348.0  15.0 290.6  2.0    0  0.00   83. 1003.     2 NAD-SFC NoSubs
 7  6 22 173   6   -1.8  0.095 -9.000 -9.000 -999.   70.     41.7 0.2930  0.52  0.45  1.00  354.0  15.0 290.6  2.0    0  0.00   82. 1003.     2 NAD-SFC NoSubs
 7  6 22 173   7   39.8  0.153  0.626  0.009  220.  144.     -8.1 0.2930  0.52  0.27  1.00  353.0  15.0 291.8  2.0    0  0.00   73. 1003.     2 NAD-SFC NoSubs
 7  6 22 173   8   85.0 -9.000 -9.000 -9.000  344. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0 293.2  2.0    0  0.00   67. 1003.     2 NAD-SFC NoSubs
 7  6 22 173   9  124.6 -9.000 -9.000 -9.000  486. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 295.1  2.0    0  0.00   60. 1002.     2 NAD-SFC NoSubs
 7  6 22 173  10  156.2 -9.000 -9.000 -9.000  627. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 297.0  2.0    0  0.00   54. 1002.     2 NAD-SFC NoSubs
 7  6 22 173  11  178.2 -9.000 -9.000 -9.000  827. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 298.8  2.0    0  0.00   50. 1001.     2 NAD-SFC NoSubs
 7  6 22 173  12  189.3  0.121  1.734  0.016  985.  101.    -1.0 0.2720  0.52  0.19  0.50  310.0  15.0 300.4  2.0    0  0.00   46. 1000.     2 NAD-SFC NoSubs
 7  6 22 173  13  189.7  0.186  1.766  0.015 1036.  192.    -3.0 0.2930  0.52  0.19  1.00  333.0  15.0 301.6  2.0    0  0.00   43. 1000.     2 NAD-SFC NoSubs
 7  6 22 173  14  179.6  0.297  1.760  0.015 1083.  388.    -13.0 0.2930  0.52  0.19  2.10  351.0  15.0 302.5  2.0    0  0.00   41.  999.     2 NAD-SFC NoSubs
 7  6 22 173  15  158.3  0.341  1.708  0.015 1123.  477.    -22.2 0.2940  0.52  0.19  2.60    5.0  15.0 303.0  2.0    0  0.00   40.  999.     2 NAD-SFC NoSubs
 7  6 22 173  16  127.3 -9.000 -9.000 -9.000 1154. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 303.2  2.0    0  0.00   40.  998.     2 NAD-SFC NoSubs
 7  6 22 173  17   87.9 -9.000 -9.000 -9.000 1174. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0 302.8  2.0    0  0.00   45.  998.     2 NAD-SFC NoSubs
 7  6 22 173  18   42.9  0.350  1.125  0.015 1183.  498.    -89.2 0.2930  0.52  0.28  3.10  357.0  15.0 302.2  2.0    0  0.00   53.  998.     2 NAD-SFC NoSubs
 7  6 22 173  19    0.5  0.417  0.253  0.015 1181.  646.  -8888.0 0.2930  0.52  0.46  4.10  353.0  15.0 300.9  2.0    0  0.00   58.  999.     3 NAD-SFC NoSubs
 7  6 22 173  20  -40.8  0.406 -9.000 -9.000 -999.  621.    146.1 0.2930  0.52  1.00  4.10  337.0  15.0 298.6  2.0    0  0.00   65.  999.     3 NAD-SFC NoSubs
 7  6 22 173  21  -41.1  0.406 -9.000 -9.000 -999.  621.    145.2 0.2930  0.52  1.00  4.10  339.0  15.0 296.9  2.0    0  0.00   68.  999.     3 NAD-SFC NoSubs
 7  6 22 173  22  -36.0  0.355 -9.000 -9.000 -999.  509.    110.3 0.2930  0.52  1.00  3.60  342.0  15.0 295.8  2.0    0  0.00   70. 1000.     3 NAD-SFC NoSubs
 7  6 22 173  23  -36.2  0.355 -9.000 -9.000 -999.  507.    109.8 0.2930  0.52  1.00  3.60  344.0  15.0 294.5  2.0    0  0.00   73. 1000.     3 NAD-SFC NoSubs
 7  6 22 173  24  -37.3  0.354 -9.000 -9.000 -999.  506.    106.5 0.2930  0.52  1.00  3.60  338.0  15.0 293.4  2.0    0  0.00   74. 1000.     2 NAD-SFC NoSubs
 7  6 23 174   1  -32.0  0.303 -9.000 -9.000 -999.  402.     77.6 0.2930  0.52  1.00  3.10  355.0  15.0 292.5  2.0    0  0.00   75. 1000.     2 NAD-SFC NoSubs
 7  6 23 174   2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00    0.0  15.0 291.8  2.0    0  0.00   76. 1001.     2 NAD-SFC NoSubs
 7  6 23 174   3   -8.3  0.140 -9.000 -9.000 -999.  126.     29.5 0.2940  0.52  1.00  1.50    7.0  15.0 291.2  2.0    0  0.00   77. 1001.     2 NAD-SFC NoSubs
 7  6 23 174   4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00    0.0  15.0 290.6  2.0    0  0.00   79. 1001.     2 NAD-SFC NoSubs
 7  6 23 174   5   -4.0  0.102 -9.000 -9.000 -999.   78.     23.6 0.2930  0.52  1.00  1.00  330.0  15.0 290.0  2.0    0  0.00   80. 1001.     2 NAD-SFC NoSubs
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7	6	23	174	6	-1.9	0.095	-9.000	-9.000	-999.	70.	40.0	0.2930	0.52	0.46	1.00	338.0	15.0	289.9	2.0	0	0.00	79.	1001.	2	NAD-SFC	NoSubs
7	6	23	174	7	39.5	0.099	0.600	0.009	196.	75.	-2.2	0.2930	0.52	0.27	0.50	352.0	15.0	291.0	2.0	0	0.00	70.	1001.	2	NAD-SFC	NoSubs
7	6	23	174	8	84.7	-9.000	-9.000	-9.000	324.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	292.8	2.0	0	0.00	63.	1001.	2	NAD-SFC	NoSubs
7	6	23	174	9	124.2	-9.000	-9.000	-9.000	465.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	294.5	2.0	0	0.00	58.	1001.	2	NAD-SFC	NoSubs
7	6	23	174	10	155.9	-9.000	-9.000	-9.000	611.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.5	2.0	0	0.00	51.	1001.	2	NAD-SFC	NoSubs
7	6	23	174	11	178.0	-9.000	-9.000	-9.000	788.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.2	2.0	0	0.00	46.	1000.	2	NAD-SFC	NoSubs
7	6	23	174	12	189.1	-9.000	-9.000	-9.000	959.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.1	2.0	0	0.00	42.	1000.	2	NAD-SFC	NoSubs
7	6	23	174	13	189.5	0.186	1.754	0.017	1017.	192.	-3.0	0.2930	0.52	0.19	1.00	344.0	15.0	301.2	2.0	0	0.00	39.	999.	2	NAD-SFC	NoSubs
7	6	23	174	14	179.4	0.238	1.748	0.016	1061.	279.	-6.7	0.2930	0.52	0.19	1.50	350.0	15.0	302.1	2.0	0	0.00	38.	998.	2	NAD-SFC	NoSubs
7	6	23	174	15	158.2	0.340	1.696	0.016	1099.	476.	-22.2	0.2930	0.52	0.19	2.60	348.0	15.0	302.6	2.0	0	0.00	39.	998.	2	NAD-SFC	NoSubs
7	6	23	174	16	127.1	0.426	1.591	0.016	1128.	666.	-53.9	0.2940	0.52	0.20	3.60	3.0	15.0	302.8	2.0	0	0.00	40.	997.	2	NAD-SFC	NoSubs
7	6	23	174	17	87.9	0.414	1.415	0.016	1147.	640.	-71.9	0.2940	0.52	0.22	3.60	2.0	15.0	302.4	2.0	0	0.00	45.	997.	2	NAD-SFC	NoSubs
7	6	23	174	18	42.8	0.350	1.116	0.016	1156.	500.	-89.4	0.2930	0.52	0.28	3.10	351.0	15.0	301.8	2.0	0	0.00	54.	998.	2	NAD-SFC	NoSubs
7	6	23	174	19	0.3	0.417	0.212	0.016	1154.	646.	-8888.0	0.2930	0.52	0.46	4.10	354.0	15.0	300.2	2.0	0	0.00	58.	998.	3	NAD-SFC	NoSubs
7	6	23	174	20	-40.9	0.406	-9.000	-9.000	-999.	621.	145.8	0.2930	0.52	1.00	4.10	343.0	15.0	298.1	2.0	0	0.00	64.	998.	3	NAD-SFC	NoSubs
7	6	23	174	21	-41.1	0.406	-9.000	-9.000	-999.	621.	145.0	0.2930	0.52	1.00	4.10	338.0	15.0	296.4	2.0	0	0.00	67.	999.	3	NAD-SFC	NoSubs
7	6	23	174	22	-41.3	0.406	-9.000	-9.000	-999.	621.	144.4	0.2930	0.52	1.00	4.10	341.0	15.0	295.2	2.0	0	0.00	69.	999.	3	NAD-SFC	NoSubs
7	6	23	174	23	-36.2	0.355	-9.000	-9.000	-999.	509.	109.7	0.2930	0.52	1.00	3.60	341.0	15.0	294.0	2.0	0	0.00	71.	999.	3	NAD-SFC	NoSubs
7	6	23	174	24	-35.6	0.347	-9.000	-9.000	-999.	490.	104.5	0.2720	0.52	1.00	3.60	328.0	15.0	292.8	2.0	0	0.00	73.	999.	3	NAD-SFC	NoSubs
7	6	24	175	1	-31.2	0.303	-9.000	-9.000	-999.	402.	79.6	0.2930	0.52	1.00	3.10	344.0	15.0	291.9	2.0	0	0.00	74.	1000.	3	NAD-SFC	NoSubs
7	6	24	175	2	-25.4	0.252	-9.000	-9.000	-999.	304.	55.9	0.2930	0.52	1.00	2.60	348.0	15.0	291.2	2.0	0	0.00	74.	1000.	3	NAD-SFC	NoSubs
7	6	24	175	3	-16.3	0.200	-9.000	-9.000	-999.	215.	43.6	0.2930	0.52	1.00	2.10	352.0	15.0	290.6	2.0	0	0.00	74.	1000.	3	NAD-SFC	NoSubs
7	6	24	175	4	-8.2	0.140	-9.000	-9.000	-999.	126.	29.8	0.2930	0.52	1.00	1.50	341.0	15.0	290.1	2.0	0	0.00	75.	1000.	3	NAD-SFC	NoSubs
7	6	24	175	5	-1.6	0.083	-9.000	-9.000	-999.	58.	31.8	0.2930	0.52	1.00	0.50	333.0	15.0	289.5	2.0	0	0.00	76.	1000.	3	NAD-SFC	NoSubs
7	6	24	175	6	-1.7	0.096	-9.000	-9.000	-999.	71.	47.2	0.2930	0.52	0.46	1.00	347.0	15.0	289.5	2.0	0	0.00	75.	1001.	3	NAD-SFC	NoSubs
7	6	24	175	7	39.1	0.153	0.625	0.011	223.	144.	-8.2	0.2940	0.52	0.27	1.00	5.0	15.0	290.5	2.0	0	0.00	68.	1001.	2	NAD-SFC	NoSubs
7	6	24	175	8	84.4	-9.000	-9.000	-9.000	317.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	292.2	2.0	0	0.00	61.	1001.	2	NAD-SFC	NoSubs
7	6	24	175	9	123.9	-9.000	-9.000	-9.000	432.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	294.0	2.0	0	0.00	55.	1001.	2	NAD-SFC	NoSubs
7	6	24	175	10	155.5	-9.000	-9.000	-9.000	574.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.8	2.0	0	0.00	49.	1001.	2	NAD-SFC	NoSubs
7	6	24	175	11	177.6	-9.000	-9.000	-9.000	717.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.6	2.0	0	0.00	45.	1000.	2	NAD-SFC	NoSubs
7	6	24	175	12	188.6	0.121	1.657	0.009	862.	101.	-1.0	0.2720	0.52	0.19	0.50	306.0	15.0	299.0	2.0	0	0.00	40.	1000.	2	NAD-SFC	NoSubs
7	6	24	175	13	189.0	0.183	1.734	0.010	985.	187.	-2.9	0.2720	0.52	0.19	1.00	327.0	15.0	300.1	2.0	0	0.00	38.	999.	2	NAD-SFC	NoSubs
7	6	24	175	14	178.9	0.238	1.751	0.010	1070.	279.	-6.7	0.2930	0.52	0.19	1.50	354.0	15.0	300.9	2.0	0	0.00	37.	998.	2	NAD-SFC	NoSubs
7	6	24	175	15	157.7	0.340	1.714	0.010	1139.	476.	-22.2	0.2930	0.52	0.19	2.60	349.0	15.0	301.4	2.0	0	0.00	37.	998.	2	NAD-SFC	NoSubs
7	6	24	175	16	127.0	0.425	1.621	0.011	1194.	665.	-53.8	0.2930	0.52	0.20	3.60	346.0	15.0	302.2	2.0	0	0.00	34.	997.	2	NAD-SFC	NoSubs
7	6	24	175	17	87.7	0.414	1.446	0.011	1228.	639.	-71.8	0.2930	0.52	0.22	3.60	358.0	15.0	301.8	2.0	0	0.00	39.	997.	2	NAD-SFC	NoSubs
7	6	24	175	18	42.6	0.350	1.141	0.011	1242.	500.	-89.8	0.2930	0.52	0.28	3.10	349.0	15.0	300.9	2.0	0	0.00	49.	998.	2	NAD-SFC	NoSubs
7	6	24	175	19	-4.5	0.423	-9.000	-9.000	-999.	661.	1500.5	0.2930	0.52	0.46	4.10	346.0	15.0	299.5	2.0	0	0.00	53.	998.	2	NAD-SFC	NoSubs
7	6	24	175	20	-42.1	0.406	-9.000	-9.000	-999.	621.	141.5	0.2930	0.52	1.00	4.10	339.0	15.0	297.2	2.0	0	0.00	59.	999.	2	NAD-SFC	NoSubs
7	6	24	175	21	-36.9	0.354	-9.000	-9.000	-999.	508.	107.4	0.2930	0.52	1.00	3.60	331.0	15.0	295.8	2.0	0	0.00	64.	999.	2	NAD-SFC	NoSubs
7	6	24	175	22	-36.3	0.347	-9.000	-9.000	-999.	490.	102.4	0.2720	0.52	1.00	3.60	328.0	15.0	294.8	2.0	0	0.00	66.	1000.	2	NAD-SFC	NoSubs
7	6	24	175	23	-30.3	0.297	-9.000	-9.000	-999.	389.	76.7	0.2720	0.52	1.00	3.10	316.0	15.0	293.9	2.0	0	0.00	68.	1000.	3	NAD-SFC	NoSubs
7	6	24	175	24	-30.5	0.297	-9.000	-9.000	-999.	388.	76.5	0.2720	0.52	1.00	3.10	323.0	15.0	292.9	2.0	0	0.00	71.	1001.	3	NAD-SFC	NoSubs
7	6	25	176	1	-25.4	0.252	-9.000	-9.000	-999.	304.	56.0	0.2930	0.52	1.00	2.60	333.0	15.0	292.1	2.0	0	0.00	73.	1001.	3	NAD-SFC	NoSubs
7	6	25	176	2	-8.2	0.140	-9.000	-9.000	-999.	132.	29.9	0.2930	0.52	1.00	1.50	338.0	15.0	291.5	2.0	0	0.00	74.	1001.	3	NAD-SFC	NoSubs
7	6	25	176	3	-1.6	0.083	-9.000	-9.000	-999.	58.	31.8	0.2930	0.52	1.00	0.50	347.0	15.0	290.9	2.0	0	0.00	75.	1001.	3	NAD-SFC	NoSubs
7	6	25	176	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	290.4	2.0	0	0.00	76.	1001.	3	NAD-SFC	NoSubs
7	6	25	176	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	289.8	2.0	0	0.00	77.	1002.	2	NAD-SFC	NoSubs
7	6	25	176	6	-0.5	0.052	-9.000	-9.000	-999.	29.	23.7	0.2930	0.52	0.46	0.50	336.0	15.0	289.8	2.0	0	0.00	78.	1002.	2	NAD-SFC	NoSubs
7	6	25	176	7	39.0	0.153	0.633	0.009	232.	143.	-8.2	0.2930	0.52	0.28	1.00	349.0	15.0	290.9	2.0	0	0.00	69.	1003.	2	NAD-SFC	NoSubs
7	6	25	176	8	84.3	-9.000	-9.000	-9.000	334.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	292.8	2.0	0	0.00	61.	1003.	2	NAD-SFC	NoSubs
7	6	25	176	9	124.0	-9.000	-9.000	-9.000	472.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	294.6	2.0	0	0.00	54.	1003.	2	NAD-SFC	NoSubs
7	6	25	176	10	155.7	0.107	1.398	0.007	629.	84.	-1.0	0.1750	0.52	0.19	0.50	264.0	15.0	296.4	2.0	0	0.00	48.	1002.	2	NAD-SFC	NoSubs
7	6	25	176	11	177.8	0.114	1.574	0.008	785.	93.	-1.0	0.2160	0.52	0.19	0.50	276.0	15.0	298.2	2.0	0	0.00	43.	1002.	2	NAD-SFC	NoSubs
7	6	25	176	12	188.9	-9.000	-9.000	-9.000	927.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.8	2.0	0	0.00	39.	1001.	2	NAD-SFC	NoSubs
7	6	25	176	13	189.3	-9.000	-9.000	-9.000	1034.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.8	2.0	0	0.00	36.	1000.	2	NAD-SFC	NoSubs
7	6	25	176	14	179.3	0.120	1.777	0.010	1118.	100.	-1.0	0.2720	0.52	0.19	0.50	319.0	15.0	301.8	2.0	0	0.00	35.	1000.	2	NAD-SFC	NoSubs
7	6	25	176	15	158.1	0.182	1.740	0.011	1188.	186.	-3.4	0.2930	0.52	0.19	1.00	356.0	15.0	302.2	2.0	0	0.00	34.	999.	2	NAD-SFC	NoSubs
7	6	25	176	16	127.3	-9.000	-9.000	-9.000	1241.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	302.6	2.0	0	0.00	33.	999.	2	NAD-SFC	NoSubs
7	6	25	176	17	88.2	0.323	1.467	0.011	1276.	440.	-33.9	0.2940	0.52	0.22	2.60	8.0	15.0	302.5	2.0	0	0.00	35.	999.	2	NAD-SFC	NoSubs
7	6	25	176	18	43.2	0.259	1.161	0.011	1292.	318.	-35.8	0.2940	0.52	0.28	2.10	12.0	15.0	302.0	2.0	0	0.00	44.	999.	2	NAD-SFC	NoSubs
7	6	25	176	19	-1.0	0.269	-9.000	-9.000	-999.	335.	1706.5	0.2940	0.52	0.46	2.60	6.0	15.0	301.2	2.0	0	0.00	46.	1000.	2	NAD-SFC	NoSubs
7	6	25	176	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	299.9	2.0	0	0.00	49.	1000.	2	NAD-SFC	NoSubs
7	6	25	176	21	-3.9	0.102	-9.000	-9.000	-999.	78.	23.7	0.2930	0.52	1.00	1.00	345.0	15.0	298.6	2.0	0	0.00	53.	1000.	2	NAD-SFC	NoSubs
7	6	25	176	22	-3.5	0.096	-9.000	-9.000	-999.	72.	22.4	0.2160	0.52	1.00	1.00	272.0	15.0	297.2	2.0	0	0.00	58.	1001.	2	NAD-SFC	NoSubs
7	6	25	176	23	-14.2	0.183	-9.000	-9.000	-999.	188.	38.5	0.2160	0.52	1.00	2.10	271.0	15.0	296.0	2.0	0	0.00	62.	1001.	2	NAD-SFC	NoSubs
7	6	25	176	24	-14.2	0.183	-9.000	-9.000	-999.	188.	38.4	0.2160	0.52	1.00	2.10	282.0	15.0	294.8	2.0	0	0.00	66.	1001.	2	NAD-SFC	NoSubs
7	6	26	177	1	-7.9	0.137	-9.000	-9.000	-999.	122.	28.8	0.2720	0.52	1.00	1.50	302.0	15.0	293.9	2.0	0	0.00	68.	1001.	2	NAD-SFC	NoSubs
7	6	26	177	2	-25.7	0.252	-9.000	-9.000	-999.	303.	55.3	0.2930	0.52	1.00	2.60	335.0	15.0	293.2	2.0	0	0.00	71.	1002.	2	NAD-SFC	NoSubs
7	6	26	177	3	-32.0	0.303	-9.000	-9.000	-999.	400.	77.6	0.2930	0.52	1.00	3.10	353.0	15.0	292.4	2.0	0	0.00	74.	1002.	2	NAD-SFC	NoSubs
7	6	26	177	4	-32.2	0.303	-9.000	-9.000	-999.	401.	77.5	0.2940	0.52	1.00	3.10	5.0	15.0	291.4	2.0	0	0.00	77.	1002.	2	NAD-SFC	NoSubs
7	6	26	177	5	-25.8	0.251	-9.000	-9.000	-999.	304.	55.1	0.2930	0.52	1.00	2.60	359.0	15.0	290.8	2.0	0	0.00	80.	1002.	2	NAD-SFC	NoSubs
7	6	26	177	6	-4.3	0.146	-9.000	-9.000	-999.	139.	64.9	0.2930	0.52	0.46	1.50	353.0	15.0	290.5	2.0	0	0.00	80.	1003.	2	NAD-SFC	NoSubs
7	6	26	177	7	39.2	0.257	0.531	0.007	137.	312.	-38.7	0.2930	0.52	0.28	2.10	346.0	15.0	292.1	2.0	0	0.00	68.	1004.	2	NAD-SFC	NoSubs
7	6	26	177	8	84.6	-9.000	-9.000	-9.000	245.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	294.1	2.0	0	0.00	61.	1004.	2	NAD-SFC	NoSubs
7	6	26	177	9	124.3	-9.000	-9.000	-9.000	381.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.0	2.0	0	0.00	54.	1004.	2	NAD-SFC	NoSubs
7	6	26	177	10	156.0	-9.000	-9.000	-9.000	574.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.8	2.0	0	0.00	48.	1003.	2	NAD-SFC	NoSubs

7	6	26	177	11	178.3	-9.000	-9.000	-9.000	789.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.5	2.0	0	0.00	44.	1003.	2	NAD-SFC NoSubs
7	6	26	177	12	189.5	-9.000	-9.000	-9.000	986.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.1	2.0	0	0.00	40.	1002.	2	NAD-SFC NoSubs
7	6	26	177	13	190.1	0.121	1.784	0.011	1069.	101.	-1.0	0.2720	0.52	0.19	0.50	303.0	15.0	302.4	2.0	0	0.00	36.	1001.	2	NAD-SFC NoSubs
7	6	26	177	14	180.1	0.122	1.791	0.011	1142.	103.	-1.0	0.2930	0.52	0.19	0.50	336.0	15.0	303.2	2.0	0	0.00	34.	1001.	2	NAD-SFC NoSubs
7	6	26	177	15	159.1	0.182	1.750	0.011	1203.	186.	-3.4	0.2940	0.52	0.19	1.00	2.0	15.0	304.0	2.0	0	0.00	32.	1000.	2	NAD-SFC NoSubs
7	6	26	177	16	128.2	-9.000	-9.000	-9.000	1249.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	304.2	2.0	0	0.00	32.	1000.	2	NAD-SFC NoSubs
7	6	26	177	17	89.1	0.323	1.473	0.011	1280.	440.	-33.7	0.2940	0.52	0.22	2.60	8.0	15.0	304.0	2.0	0	0.00	34.	1000.	2	NAD-SFC NoSubs
7	6	26	177	18	43.9	0.305	1.168	0.011	1294.	405.	-57.7	0.2940	0.52	0.27	2.60	24.0	15.0	303.2	2.0	0	0.00	44.	1000.	2	NAD-SFC NoSubs
7	6	26	177	19	0.2	0.265	0.184	0.011	1292.	328.	-8888.0	0.2940	0.52	0.46	2.60	8.0	15.0	302.5	2.0	0	0.00	46.	1001.	2	NAD-SFC NoSubs
7	6	26	177	20	-24.4	0.246	-9.000	-9.000	-999.	293.	54.5	0.2720	0.52	1.00	2.60	307.0	15.0	301.4	2.0	0	0.00	48.	1001.	2	NAD-SFC NoSubs
7	6	26	177	21	-50.3	0.498	-9.000	-9.000	-999.	843.	219.0	0.1750	0.52	1.00	5.70	263.0	15.0	298.0	2.0	0	0.00	60.	1002.	3	NAD-SFC NoSubs
7	6	26	177	22	-44.0	0.420	-9.000	-9.000	-999.	658.	150.5	0.2160	0.52	1.00	4.60	270.0	15.0	295.2	2.0	0	0.00	69.	1002.	2	NAD-SFC NoSubs
7	6	26	177	23	-33.3	0.325	-9.000	-9.000	-999.	452.	92.5	0.2160	0.52	1.00	3.60	289.0	15.0	294.5	2.0	0	0.00	72.	1003.	3	NAD-SFC NoSubs
7	6	26	177	24	-36.4	0.355	-9.000	-9.000	-999.	507.	109.7	0.2930	0.52	1.00	3.60	333.0	15.0	294.0	2.0	0	0.00	74.	1003.	3	NAD-SFC NoSubs
7	6	27	178	1	-36.5	0.355	-9.000	-9.000	-999.	507.	109.3	0.2930	0.52	1.00	3.60	351.0	15.0	293.2	2.0	0	0.00	76.	1003.	3	NAD-SFC NoSubs
7	6	27	178	2	-31.3	0.304	-9.000	-9.000	-999.	403.	79.9	0.2940	0.52	1.00	3.10	5.0	15.0	292.5	2.0	0	0.00	78.	1004.	3	NAD-SFC NoSubs
7	6	27	178	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	291.8	2.0	0	0.00	79.	1004.	3	NAD-SFC NoSubs
7	6	27	178	4	-8.2	0.140	-9.000	-9.000	-999.	125.	29.9	0.2930	0.52	1.00	1.50	358.0	15.0	291.2	2.0	0	0.00	80.	1004.	3	NAD-SFC NoSubs
7	6	27	178	5	-4.0	0.102	-9.000	-9.000	-999.	78.	23.7	0.2930	0.52	1.00	1.00	346.0	15.0	290.6	2.0	0	0.00	81.	1004.	3	NAD-SFC NoSubs
7	6	27	178	6	-3.3	0.147	-9.000	-9.000	-999.	135.	86.0	0.2930	0.52	0.46	1.50	346.0	15.0	290.4	2.0	0	0.00	80.	1005.	3	NAD-SFC NoSubs
7	6	27	178	7	39.9	0.257	0.625	0.009	220.	313.	-38.2	0.2930	0.52	0.28	2.10	350.0	15.0	291.4	2.0	0	0.00	70.	1005.	3	NAD-SFC NoSubs
7	6	27	178	8	84.7	-9.000	-9.000	-9.000	338.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	292.9	2.0	0	0.00	65.	1005.	3	NAD-SFC NoSubs
7	6	27	178	9	123.7	-9.000	-9.000	-9.000	470.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	294.6	2.0	0	0.00	60.	1005.	2	NAD-SFC NoSubs
7	6	27	178	10	155.4	-9.000	-9.000	-9.000	604.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.4	2.0	0	0.00	54.	1004.	2	NAD-SFC NoSubs
7	6	27	178	11	177.6	-9.000	-9.000	-9.000	744.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.2	2.0	0	0.00	49.	1004.	2	NAD-SFC NoSubs
7	6	27	178	12	188.8	-9.000	-9.000	-9.000	880.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.8	2.0	0	0.00	45.	1003.	2	NAD-SFC NoSubs
7	6	27	178	13	189.4	0.121	1.741	0.008	998.	101.	-1.0	0.2720	0.52	0.19	0.50	308.0	15.0	300.9	2.0	0	0.00	42.	1002.	2	NAD-SFC NoSubs
7	6	27	178	14	179.4	0.184	1.764	0.008	1095.	190.	-3.1	0.2930	0.52	0.19	1.00	338.0	15.0	301.8	2.0	0	0.00	40.	1001.	2	NAD-SFC NoSubs
7	6	27	178	15	158.4	0.293	1.732	0.008	1173.	381.	-14.2	0.2940	0.52	0.19	2.10	2.0	15.0	302.4	2.0	0	0.00	39.	1001.	2	NAD-SFC NoSubs
7	6	27	178	16	127.5	-9.000	-9.000	-9.000	1232.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	302.6	2.0	0	0.00	39.	1001.	2	NAD-SFC NoSubs
7	6	27	178	17	88.4	0.369	1.466	0.008	1272.	537.	-50.6	0.2940	0.52	0.22	3.10	7.0	15.0	302.5	2.0	0	0.00	42.	1000.	2	NAD-SFC NoSubs
7	6	27	178	18	43.5	0.305	1.162	0.009	1289.	407.	-58.3	0.2940	0.52	0.27	2.60	15.0	15.0	302.0	2.0	0	0.00	51.	1001.	2	NAD-SFC NoSubs
7	6	27	178	19	-0.9	0.322	-9.000	-9.000	-999.	439.	3452.0	0.2940	0.52	0.46	3.10	6.0	15.0	301.2	2.0	0	0.00	53.	1001.	2	NAD-SFC NoSubs
7	6	27	178	20	-30.4	0.303	-9.000	-9.000	-999.	401.	82.0	0.2930	0.52	1.00	3.10	352.0	15.0	300.2	2.0	0	0.00	55.	1001.	3	NAD-SFC NoSubs
7	6	27	178	21	-40.9	0.406	-9.000	-9.000	-999.	621.	146.1	0.2930	0.52	1.00	4.10	343.0	15.0	298.8	2.0	0	0.00	60.	1001.	3	NAD-SFC NoSubs
7	6	27	178	22	-40.3	0.397	-9.000	-9.000	-999.	601.	139.0	0.2720	0.52	1.00	4.10	328.0	15.0	296.9	2.0	0	0.00	69.	1002.	3	NAD-SFC NoSubs
7	6	27	178	23	-36.1	0.355	-9.000	-9.000	-999.	508.	110.2	0.2930	0.52	1.00	3.60	343.0	15.0	295.5	2.0	0	0.00	75.	1002.	3	NAD-SFC NoSubs
7	6	27	178	24	-36.3	0.355	-9.000	-9.000	-999.	507.	109.7	0.2930	0.52	1.00	3.60	345.0	15.0	294.2	2.0	0	0.00	79.	1002.	3	NAD-SFC NoSubs
7	6	28	179	1	-31.2	0.303	-9.000	-9.000	-999.	402.	80.0	0.2930	0.52	1.00	3.10	347.0	15.0	293.2	2.0	0	0.00	79.	1003.	3	NAD-SFC NoSubs
7	6	28	179	2	-25.5	0.252	-9.000	-9.000	-999.	304.	56.1	0.2930	0.52	1.00	2.60	357.0	15.0	292.5	2.0	0	0.00	79.	1003.	3	NAD-SFC NoSubs
7	6	28	179	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	291.9	2.0	0	0.00	80.	1003.	3	NAD-SFC NoSubs
7	6	28	179	4	-8.2	0.140	-9.000	-9.000	-999.	126.	29.9	0.2940	0.52	1.00	1.50	15.0	15.0	291.2	2.0	0	0.00	81.	1004.	3	NAD-SFC NoSubs
7	6	28	179	5	-4.0	0.102	-9.000	-9.000	-999.	78.	23.7	0.2930	0.52	1.00	1.00	352.0	15.0	290.8	2.0	0	0.00	83.	1004.	3	NAD-SFC NoSubs
7	6	28	179	6	-2.0	0.094	-9.000	-9.000	-999.	69.	36.7	0.2930	0.52	0.46	1.00	348.0	15.0	290.5	2.0	0	0.00	82.	1004.	2	NAD-SFC NoSubs
7	6	28	179	7	38.6	0.153	0.628	0.010	230.	143.	-8.2	0.2930	0.52	0.28	1.00	347.0	15.0	291.5	2.0	0	0.00	74.	1004.	2	NAD-SFC NoSubs
7	6	28	179	8	83.9	-9.000	-9.000	-9.000	321.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	293.2	2.0	0	0.00	68.	1004.	2	NAD-SFC NoSubs
7	6	28	179	9	123.7	-9.000	-9.000	-9.000	440.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	295.1	2.0	0	0.00	61.	1004.	2	NAD-SFC NoSubs
7	6	28	179	10	155.5	-9.000	-9.000	-9.000	586.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.9	2.0	0	0.00	56.	1003.	2	NAD-SFC NoSubs
7	6	28	179	11	177.8	-9.000	-9.000	-9.000	773.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.8	2.0	0	0.00	50.	1003.	2	NAD-SFC NoSubs
7	6	28	179	12	189.0	-9.000	-9.000	-9.000	977.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.2	2.0	0	0.00	45.	1002.	2	NAD-SFC NoSubs
7	6	28	179	13	189.7	0.121	1.786	0.010	1074.	101.	-1.0	0.2720	0.52	0.19	0.50	313.0	15.0	301.5	2.0	0	0.00	42.	1001.	2	NAD-SFC NoSubs
7	6	28	179	14	179.8	0.185	1.799	0.010	1159.	190.	-3.1	0.2930	0.52	0.19	1.00	337.0	15.0	302.5	2.0	0	0.00	38.	1001.	2	NAD-SFC NoSubs
7	6	28	179	15	158.7	0.293	1.761	0.011	1229.	381.	-14.2	0.2940	0.52	0.19	2.10	5.0	15.0	303.1	2.0	0	0.00	36.	1000.	2	NAD-SFC NoSubs
7	6	28	179	16	127.8	-9.000	-9.000	-9.000	1282.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	303.2	2.0	0	0.00	35.	1000.	2	NAD-SFC NoSubs
7	6	28	179	17	88.8	0.369	1.485	0.011	1317.	538.	-50.4	0.2940	0.52	0.22	3.10	6.0	15.0	303.0	2.0	0	0.00	38.	1000.	2	NAD-SFC NoSubs
7	6	28	179	18	43.8	0.305	1.178	0.011	1333.	407.	-57.9	0.2940	0.52	0.27	2.60	12.0	15.0	302.5	2.0	0	0.00	47.	1000.	2	NAD-SFC NoSubs
7	6	28	179	19	0.0	0.315	0.065	0.011	1332.	425.	-8888.0	0.2940	0.52	0.46	3.10	15.0	15.0	301.9	2.0	0	0.00	48.	1001.	2	NAD-SFC NoSubs
7	6	28	179	20	-25.4	0.252	-9.000	-9.000	-999.	305.	56.1	0.2930	0.52	1.00	2.60	354.0	15.0	300.8	2.0	0	0.00	51.	1001.	2	NAD-SFC NoSubs
7	6	28	179	21	-29.8	0.297	-9.000	-9.000	-999.	388.	78.3	0.2720	0.52	1.00	3.10	326.0	15.0	299.4	2.0	0	0.00	56.	1001.	3	NAD-SFC NoSubs
7	6	28	179	22	-35.8	0.355	-9.000	-9.000	-999.	507.	111.1	0.2930	0.52	1.00	3.60	344.0	15.0	297.8	2.0	0	0.00	64.	1001.	3	NAD-SFC NoSubs
7	6	28	179	23	-36.0	0.355	-9.000	-9.000	-999.	507.	110.6	0.2930	0.52	1.00	3.60	352.0	15.0	296.4	2.0	0	0.00	70.	1002.	3	NAD-SFC NoSubs
7	6	28	179	24	-36.2	0.355	-9.000	-9.000	-999.	507.	110.1	0.2930	0.52	1.00	3.60	348.0	15.0	295.1	2.0	0	0.00	76.	1001.	3	NAD-SFC NoSubs
7	6	29	180	1	-31.1	0.304	-9.000	-9.000	-999.	403.	80.3	0.2940	0.52	1.00	3.10	6.0	15.0	293.9	2.0	0	0.00	80.	1002.	3	NAD-SFC NoSubs
7	6	29	180	2	-31.2	0.304	-9.000	-9.000	-999.	401.	80.1	0.2940	0.52	1.00	3.10	19.0	15.0	293.0	2.0	0	0.00	83.	1002.	3	NAD-SFC NoSubs
7	6	29	180	3	-23.4	0.239	-9.000	-9.000	-999.	283.	52.4	0.2470	0.52	1.00	2.60	32.0	15.0	292.2	2.0	0	0.00	86.	1002.	3	NAD-SFC NoSubs
7	6	29	180	4	-15.0	0.190	-9.000	-9.000	-999.	200.	40.8	0.2470	0.52	1.00	2.10	32.0	15.0	291.6	2.0	0	0.00	88.	1002.	3	NAD-SFC NoSubs
7	6	29	180	5	-8.2	0.140	-9.000	-9.000	-999.	126.	29.9	0.2940	0.52	1.00	1.50	29.0	15.0	291.0	2.0	0	0.00	91.	1003.	3	NAD-SFC NoSubs
7	6	29	180	6	-3.6	0.147	-9.000	-9.000	-999.	135.	79.5	0.2940	0.52	0.46	1.50	6.0	15.0	290.9	2.0	0	0.00	90.	1003.	3	NAD-SFC NoSubs
7	6	29	180	7	39.6	-9.000	-9.000	-9.000	222.	-999.	-99999.0	0.2235	0.52	0.28	0.00	0.0	15.0	292.0	2.0	0	0.00	81.	1004.	3	NAD-SFC NoSubs
7	6	29	180	8	84.6	0.110	0.902	0.008	311.	88.	-1.4	0.2930	0.52	0.22	0.50	338.0	15.0	293.9	2.0	0	0.00	73.	1004.	3	NAD-SFC NoSubs
7	6	29	180	9	123.7	-9.000	-9.000	-9.000	431.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	295.6	2.0	0	0.00	65.	1003.	2	NAD-SFC NoSubs
7	6	29	180	10	155.4	-9.000	-9.000	-9.000	632.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.2	2.0	0	0.00	59.	1003.	2	NAD-SFC NoSubs
7	6	29	180	11	177.7	-9.000	-9.000	-9.000	781.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.9	2.0	0	0.00	54.	1003.	2	NAD-SFC NoSubs
7	6	29	180	12	188.9	-9.000	-9.000	-9.000	911.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.1	2.0	0	0.00	50.	1002.	2	NAD-SFC NoSubs
7	6	29	180	13	189.5	0.121	1.752	0.010	1016.	101.	-1.0	0.2720	0.52	0.19	0.50	315.0	15.0	301.2	2.0	0	0.00	47.	1001.	2	NAD-SFC NoSubs
7	6	29	180	14	179.7	0.185	1.766	0.010	1096.	190.	-3.1	0.2930	0.52	0.19	1.00	346.0	15.0	302.2	2.0	0	0.00	44.	1001.	2	NAD-SFC NoSubs
7	6	29	180	15	158.6	-9.000	-9.000	-9.000	1163.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.8	2.0	0	0.00	43.	1000.	2	NAD-SFC NoSubs

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 7  6 29 180 16  128.0  0.380  1.633  0.011 1215.  562.    -38.2 0.2940  0.52  0.20  3.10   5.0  15.0 303.4  2.0    0  0.00   44. 1000.    2 NAD-SFC NoSubs
 7  6 29 180 17   88.9 -9.000 -9.000 -9.000 1248. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 303.1  2.0    0  0.00   47. 1000.    2 NAD-SFC NoSubs
 7  6 29 180 18   43.9 -9.000 -9.000 -9.000 1264. -999. -99999.0 0.2235  0.52  0.27  0.00   0.0  15.0 302.8  2.0    0  0.00   56. 1000.    2 NAD-SFC NoSubs
 7  6 29 180 19    1.4  0.368  0.368  0.011 1262.  536.  -3154.3 0.2940  0.52  0.46  3.60   5.0  15.0 301.6  2.0    0  0.00   59. 1000.    3 NAD-SFC NoSubs
 7  6 29 180 20  -40.8  0.406 -9.000 -9.000 -999.  621.    146.7 0.2930  0.52  1.00  4.10 352.0  15.0 299.8  2.0    0  0.00   64. 1001.    3 NAD-SFC NoSubs
 7  6 29 180 21  -41.0  0.406 -9.000 -9.000 -999.  621.    145.7 0.2930  0.52  1.00  4.10 339.0  15.0 297.9  2.0    0  0.00   72. 1001.    3 NAD-SFC NoSubs
 7  6 29 180 22  -41.3  0.406 -9.000 -9.000 -999.  621.    145.0 0.2930  0.52  1.00  4.10 342.0  15.0 296.4  2.0    0  0.00   78. 1002.    3 NAD-SFC NoSubs
 7  6 29 180 23  -36.2  0.355 -9.000 -9.000 -999.  509.    110.2 0.2930  0.52  1.00  3.60 344.0  15.0 295.4  2.0    0  0.00   81. 1002.    3 NAD-SFC NoSubs
 7  6 29 180 24  -35.5  0.347 -9.000 -9.000 -999.  491.    105.2 0.2720  0.52  1.00  3.60 327.0  15.0 294.5  2.0    0  0.00   83. 1002.    3 NAD-SFC NoSubs
 7  6 30 181  1  -31.1  0.303 -9.000 -9.000 -999.  402.     80.1 0.2930  0.52  1.00  3.10 338.0  15.0 293.8  2.0    0  0.00   83. 1002.    3 NAD-SFC NoSubs
 7  6 30 181  2  -31.2  0.303 -9.000 -9.000 -999.  401.     79.9 0.2930  0.52  1.00  3.10 343.0  15.0 293.0  2.0    0  0.00   83. 1003.    3 NAD-SFC NoSubs
 7  6 30 181  3  -25.5  0.252 -9.000 -9.000 -999.  304.     56.0 0.2930  0.52  1.00  2.60 340.0  15.0 292.2  2.0    0  0.00   83. 1003.    3 NAD-SFC NoSubs
 7  6 30 181  4  -25.5  0.252 -9.000 -9.000 -999.  303.     56.0 0.2930  0.52  1.00  2.60 336.0  15.0 291.8  2.0    0  0.00   84. 1003.    3 NAD-SFC NoSubs
 7  6 30 181  5  -16.4  0.200 -9.000 -9.000 -999.  215.     43.7 0.2930  0.52  1.00  2.10 338.0  15.0 291.2  2.0    0  0.00   84. 1004.    3 NAD-SFC NoSubs
 7  6 30 181  6   -5.3  0.208 -9.000 -9.000 -999.  228.    153.1 0.2930  0.52  0.47  2.10 347.0  15.0 291.1  2.0    0  0.00   81. 1005.    3 NAD-SFC NoSubs
 7  6 30 181  7   39.3  0.201  0.638  0.009  237.  217.    -18.6 0.2930  0.52  0.28  1.50 354.0  15.0 291.9  2.0    0  0.00   74. 1005.    3 NAD-SFC NoSubs
 7  6 30 181  8   84.2 -9.000 -9.000 -9.000  350. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 293.5  2.0    0  0.00   68. 1005.    3 NAD-SFC NoSubs
 7  6 30 181  9  123.3 -9.000 -9.000 -9.000  496. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 295.2  2.0    0  0.00   63. 1004.    2 NAD-SFC NoSubs
 7  6 30 181 10  155.2 -9.000 -9.000 -9.000  646. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 297.0  2.0    0  0.00   57. 1004.    2 NAD-SFC NoSubs
 7  6 30 181 11  177.6 -9.000 -9.000 -9.000  775. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 298.9  2.0    0  0.00   52. 1003.    2 NAD-SFC NoSubs
 7  6 30 181 12  188.9 -9.000 -9.000 -9.000  893. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 300.4  2.0    0  0.00   47. 1002.    2 NAD-SFC NoSubs
 7  6 30 181 13  189.7  0.121  1.743  0.009  998.  101.    -1.0  0.2720  0.52  0.19  0.50 314.0  15.0 301.6  2.0    0  0.00   44. 1001.    2 NAD-SFC NoSubs
 7  6 30 181 14  179.8  0.182  1.762  0.010 1088.  186.    -3.0  0.2720  0.52  0.19  1.00 329.0  15.0 302.5  2.0    0  0.00   41. 1001.    2 NAD-SFC NoSubs
 7  6 30 181 15  158.8  0.293  1.729  0.010 1163.  381.   -14.1  0.2930  0.52  0.19  2.10 345.0  15.0 303.1  2.0    0  0.00   39. 1000.    2 NAD-SFC NoSubs
 7  6 30 181 16  128.1  0.333  1.635  0.011 1219.  462.   -25.8  0.2940  0.52  0.20  2.60   2.0  15.0 303.4  2.0    0  0.00   39. 1000.    2 NAD-SFC NoSubs
 7  6 30 181 17   89.0 -9.000 -9.000 -9.000 1255. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 303.2  2.0    0  0.00   42. 1000.    2 NAD-SFC NoSubs
 7  6 30 181 18   43.9  0.305  1.161  0.011 1272.  405.   -57.7  0.2940  0.52  0.27  2.60  12.0  15.0 302.6  2.0    0  0.00   52. 1000.    2 NAD-SFC NoSubs
 7  6 30 181 19   -0.3  0.375 -9.000 -9.000 -999.  552.  8888.0  0.2930  0.52  0.46  3.60 358.0  15.0 301.6  2.0    0  0.00   55. 1000.    2 NAD-SFC NoSubs
 7  6 30 181 20  -40.8  0.406 -9.000 -9.000 -999.  621.    146.5 0.2930  0.52  1.00  4.10 351.0  15.0 299.5  2.0    0  0.00   61. 1001.    3 NAD-SFC NoSubs
 7  6 30 181 21  -41.1  0.406 -9.000 -9.000 -999.  621.    145.6 0.2930  0.52  1.00  4.10 339.0  15.0 297.6  2.0    0  0.00   66. 1001.    3 NAD-SFC NoSubs
 7  6 30 181 22  -36.0  0.355 -9.000 -9.000 -999.  509.    110.6 0.2930  0.52  1.00  3.60 342.0  15.0 296.5  2.0    0  0.00   69. 1001.    3 NAD-SFC NoSubs
 7  6 30 181 23  -36.1  0.355 -9.000 -9.000 -999.  507.    110.2 0.2930  0.52  1.00  3.60 337.0  15.0 295.5  2.0    0  0.00   72. 1002.    3 NAD-SFC NoSubs
 7  6 30 181 24  -36.3  0.355 -9.000 -9.000 -999.  507.    109.8 0.2930  0.52  1.00  3.60 347.0  15.0 294.4  2.0    0  0.00   76. 1002.    3 NAD-SFC NoSubs
 7  7  1 182  1  -31.2  0.303 -9.000 -9.000 -999.  402.     80.0 0.2930  0.52  1.00  3.10 348.0  15.0 293.2  2.0    0  0.00   78. 1002.    3 NAD-SFC NoSubs
 7  7  1 182  2  -25.8  0.252 -9.000 -9.000 -999.  304.     55.2 0.2930  0.52  1.00  2.60 355.0  15.0 292.5  2.0    0  0.00   79. 1003.    2 NAD-SFC NoSubs
 7  7  1 182  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 291.8  2.0    0  0.00   79. 1003.    2 NAD-SFC NoSubs
 7  7  1 182  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 291.2  2.0    0  0.00   81. 1003.    2 NAD-SFC NoSubs
 7  7  1 182  5   -1.7  0.084 -9.000 -9.000 -999.   59.     32.0 0.2930  0.52  1.00  0.50 341.0  15.0 290.8  2.0    0  0.00   82. 1004.    2 NAD-SFC NoSubs
 7  7  1 182  6   -0.6  0.055 -9.000 -9.000 -999.   31.     24.1 0.2930  0.52  0.47  0.50 350.0  15.0 290.5  2.0    0  0.00   81. 1004.    2 NAD-SFC NoSubs
 7  7  1 182  7   37.8  0.099  0.611  0.010  216.   75.     -2.3 0.2930  0.52  0.28  0.50 352.0  15.0 291.5  2.0    0  0.00   72. 1005.    2 NAD-SFC NoSubs
 7  7  1 182  8   83.2 -9.000 -9.000 -9.000  311. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 293.2  2.0    0  0.00   65. 1004.    2 NAD-SFC NoSubs
 7  7  1 182  9  123.1 -9.000 -9.000 -9.000  430. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 295.1  2.0    0  0.00   59. 1004.    2 NAD-SFC NoSubs
 7  7  1 182 10  155.1  0.118  1.368  0.010  591.   97.    -1.0  0.2720  0.52  0.19  0.50 303.0  15.0 297.0  2.0    0  0.00   52. 1003.    2 NAD-SFC NoSubs
 7  7  1 182 11  177.5 -9.000 -9.000 -9.000  731. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 298.9  2.0    0  0.00   47. 1003.    2 NAD-SFC NoSubs
 7  7  1 182 12  189.0  0.115  1.653  0.013  855.   94.    -1.0  0.2160  0.52  0.19  0.50 291.0  15.0 300.6  2.0    0  0.00   42. 1002.    2 NAD-SFC NoSubs
 7  7  1 182 13  189.8  0.186  1.723  0.014  964.  192.    -3.0  0.2930  0.52  0.19  1.00 332.0  15.0 302.0  2.0    0  0.00   39. 1001.    2 NAD-SFC NoSubs
 7  7  1 182 14  180.0  0.238  1.726  0.014 1021.  279.    -6.7  0.2930  0.52  0.19  1.50 340.0  15.0 302.9  2.0    0  0.00   38. 1001.    2 NAD-SFC NoSubs
 7  7  1 182 15  159.1  0.293  1.680  0.014 1066.  381.   -14.1  0.2930  0.52  0.19  2.10 341.0  15.0 303.5  2.0    0  0.00   37. 1001.    2 NAD-SFC NoSubs
 7  7  1 182 16  128.3  0.380  1.581  0.014 1101.  561.   -38.1  0.2930  0.52  0.20  3.10 351.0  15.0 303.8  2.0    0  0.00   38. 1001.    2 NAD-SFC NoSubs
 7  7  1 182 17   89.2  0.369  1.410  0.014 1124.  538.   -50.3  0.2940  0.52  0.22  3.10   4.0  15.0 303.5  2.0    0  0.00   42. 1001.    2 NAD-SFC NoSubs
 7  7  1 182 18   44.2 -9.000 -9.000 -9.000 1134. -999. -99999.0 0.2235  0.52  0.27  0.00   0.0  15.0 303.0  2.0    0  0.00   50. 1001.    2 NAD-SFC NoSubs
 7  7  1 182 19    0.2  0.366  0.181  0.014 1133.  532.  -8888.0  0.2930  0.52  0.46  3.60 358.0  15.0 302.1  2.0    0  0.00   52. 1001.    2 NAD-SFC NoSubs
 7  7  1 182 20  -40.8  0.406 -9.000 -9.000 -999.  621.    146.8 0.2930  0.52  1.00  4.10 355.0  15.0 300.0  2.0    0  0.00   58. 1002.    3 NAD-SFC NoSubs
 7  7  1 182 21  -41.1  0.406 -9.000 -9.000 -999.  621.    145.7 0.2930  0.52  1.00  4.10 340.0  15.0 297.9  2.0    0  0.00   65. 1002.    3 NAD-SFC NoSubs
 7  7  1 182 22  -36.0  0.355 -9.000 -9.000 -999.  509.    110.7 0.2930  0.52  1.00  3.60 345.0  15.0 296.6  2.0    0  0.00   68. 1003.    3 NAD-SFC NoSubs
 7  7  1 182 23  -36.2  0.355 -9.000 -9.000 -999.  507.    110.1 0.2930  0.52  1.00  3.60 343.0  15.0 295.2  2.0    0  0.00   72. 1003.    3 NAD-SFC NoSubs
 7  7  1 182 24  -36.4  0.355 -9.000 -9.000 -999.  507.    109.7 0.2930  0.52  1.00  3.60 344.0  15.0 294.0  2.0    0  0.00   74. 1003.    3 NAD-SFC NoSubs
 7  7  2 183  1  -31.2  0.303 -9.000 -9.000 -999.  402.     79.9 0.2930  0.52  1.00  3.10 350.0  15.0 293.0  2.0    0  0.00   74. 1004.    3 NAD-SFC NoSubs
 7  7  2 183  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 292.2  2.0    0  0.00   75. 1004.    3 NAD-SFC NoSubs
 7  7  2 183  3  -16.6  0.200 -9.000 -9.000 -999.  215.     43.1 0.2940  0.52  1.00  2.10  15.0  15.0 291.8  2.0    0  0.00   76. 1005.    2 NAD-SFC NoSubs
 7  7  2 183  4   -4.0  0.102 -9.000 -9.000 -999.   83.     23.7 0.2940  0.52  1.00  1.00  11.0  15.0 291.0  2.0    0  0.00   77. 1005.    2 NAD-SFC NoSubs
 7  7  2 183  5   -1.7  0.084 -9.000 -9.000 -999.   59.     32.0 0.2930  0.52  1.00  0.50 340.0  15.0 290.4  2.0    0  0.00   78. 1005.    2 NAD-SFC NoSubs
 7  7  2 183  6   -0.7  0.056 -9.000 -9.000 -999.   32.     24.3 0.2930  0.52  0.47  0.50 352.0  15.0 290.2  2.0    0  0.00   77. 1006.    2 NAD-SFC NoSubs
 7  7  2 183  7   37.4  0.099  0.605  0.011  212.   75.     -2.3 0.2930  0.52  0.28  0.50 341.0  15.0 291.2  2.0    0  0.00   69. 1006.    2 NAD-SFC NoSubs
 7  7  2 183  8   83.0 -9.000 -9.000 -9.000  302. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 293.2  2.0    0  0.00   62. 1005.    2 NAD-SFC NoSubs
 7  7  2 183  9  122.8 -9.000 -9.000 -9.000  407. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 294.9  2.0    0  0.00   56. 1005.    2 NAD-SFC NoSubs
 7  7  2 183 10  155.0 -9.000 -9.000 -9.000  557. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 297.2  2.0    0  0.00   49. 1004.    2 NAD-SFC NoSubs
 7  7  2 183 11  177.5 -9.000 -9.000 -9.000  696. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 299.2  2.0    0  0.00   44. 1003.    2 NAD-SFC NoSubs
 7  7  2 183 12  189.0 -9.000 -9.000 -9.000  835. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 300.9  2.0    0  0.00   40. 1003.    2 NAD-SFC NoSubs
 7  7  2 183 13  189.9  0.121  1.717  0.012  955.  101.    -1.0  0.2720  0.52  0.19  0.50 314.0  15.0 302.2  2.0    0  0.00   36. 1002.    2 NAD-SFC NoSubs
 7  7  2 183 14  180.2  0.238  1.729  0.012 1027.  279.    -6.7  0.2930  0.52  0.19  1.50 332.0  15.0 303.2  2.0    0  0.00   35. 1002.    2 NAD-SFC NoSubs
 7  7  2 183 15  159.3  0.340  1.689  0.012 1082.  477.   -22.1  0.2930  0.52  0.19  2.60 352.0  15.0 303.9  2.0    0  0.00   34. 1002.    2 NAD-SFC NoSubs
 7  7  2 183 16  128.4  0.425  1.592  0.012 1124.  666.   -53.5  0.2930  0.52  0.20  3.60 353.0  15.0 304.0  2.0    0  0.00   35. 1002.    2 NAD-SFC NoSubs
 7  7  2 183 17   89.2 -9.000 -9.000 -9.000 1152. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 303.5  2.0    0  0.00   42. 1002.    2 NAD-SFC NoSubs
 7  7  2 183 18   44.2 -9.000 -9.000 -9.000 1165. -999. -99999.0 0.2235  0.52  0.27  0.00   0.0  15.0 303.0  2.0    0  0.00   49. 1002.    2 NAD-SFC NoSubs
 7  7  2 183 19    0.2  0.316  0.196  0.012 1163.  426.  -8888.0  0.2940  0.52  0.46  3.10   5.0  15.0 302.2  2.0    0  0.00   50. 1003.    2 NAD-SFC NoSubs
 7  7  2 183 20  -31.2  0.303 -9.000 -9.000 -999.  401.     80.0 0.2930  0.52  1.00  3.10 347.0  15.0 300.9  2.0    0  0.00   54. 1003.    2 NAD-SFC NoSubs
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7	7	2	183	21	-31.3	0.303	-9.000	-9.000	-999.	401.	79.6	0.2930	0.52	1.00	3.10	343.0	15.0	299.5	2.0	0	0.00	60.	1003.	2	NAD-SFC	NoSubs
7	7	2	183	22	-35.1	0.347	-9.000	-9.000	-999.	490.	106.5	0.2720	0.52	1.00	3.60	329.0	15.0	298.2	2.0	0	0.00	65.	1003.	3	NAD-SFC	NoSubs
7	7	2	183	23	-30.9	0.297	-9.000	-9.000	-999.	389.	75.5	0.2720	0.52	1.00	3.10	326.0	15.0	297.0	2.0	0	0.00	69.	1003.	2	NAD-SFC	NoSubs
7	7	2	183	24	-31.7	0.303	-9.000	-9.000	-999.	400.	78.6	0.2930	0.52	1.00	3.10	332.0	15.0	296.0	2.0	0	0.00	73.	1003.	2	NAD-SFC	NoSubs
7	7	3	184	1	-31.8	0.303	-9.000	-9.000	-999.	400.	78.4	0.2930	0.52	1.00	3.10	349.0	15.0	295.2	2.0	0	0.00	76.	1003.	2	NAD-SFC	NoSubs
7	7	3	184	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	294.6	2.0	0	0.00	79.	1004.	2	NAD-SFC	NoSubs
7	7	3	184	3	-32.0	0.303	-9.000	-9.000	-999.	401.	78.1	0.2940	0.52	1.00	3.10	6.0	15.0	293.8	2.0	0	0.00	81.	1004.	2	NAD-SFC	NoSubs
7	7	3	184	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	293.0	2.0	0	0.00	84.	1004.	2	NAD-SFC	NoSubs
7	7	3	184	5	-8.3	0.140	-9.000	-9.000	-999.	125.	29.6	0.2930	0.52	1.00	1.50	351.0	15.0	292.2	2.0	0	0.00	86.	1005.	2	NAD-SFC	NoSubs
7	7	3	184	6	-2.2	0.094	-9.000	-9.000	-999.	69.	34.0	0.2930	0.52	0.47	1.00	338.0	15.0	292.0	2.0	0	0.00	86.	1005.	2	NAD-SFC	NoSubs
7	7	3	184	7	37.7	0.200	0.604	0.009	209.	215.	-19.1	0.2930	0.52	0.28	1.50	346.0	15.0	293.2	2.0	0	0.00	76.	1005.	2	NAD-SFC	NoSubs
7	7	3	184	8	83.2	-9.000	-9.000	-9.000	309.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	294.8	2.0	0	0.00	69.	1005.	2	NAD-SFC	NoSubs
7	7	3	184	9	123.2	-9.000	-9.000	-9.000	439.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.5	2.0	0	0.00	63.	1004.	2	NAD-SFC	NoSubs
7	7	3	184	10	155.2	-9.000	-9.000	-9.000	618.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.2	2.0	0	0.00	56.	1004.	2	NAD-SFC	NoSubs
7	7	3	184	11	177.8	-9.000	-9.000	-9.000	805.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.0	2.0	0	0.00	50.	1003.	2	NAD-SFC	NoSubs
7	7	3	184	12	189.3	-9.000	-9.000	-9.000	972.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.6	2.0	0	0.00	44.	1002.	2	NAD-SFC	NoSubs
7	7	3	184	13	190.1	-9.000	-9.000	-9.000	1043.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.8	2.0	0	0.00	40.	1001.	2	NAD-SFC	NoSubs
7	7	3	184	14	180.4	0.120	1.774	0.012	1106.	100.	-1.0	0.2720	0.52	0.19	0.50	306.0	15.0	303.8	2.0	0	0.00	38.	1000.	2	NAD-SFC	NoSubs
7	7	3	184	15	159.5	0.182	1.730	0.012	1159.	186.	-3.4	0.2930	0.52	0.19	1.00	347.0	15.0	304.4	2.0	0	0.00	37.	1000.	2	NAD-SFC	NoSubs
7	7	3	184	16	128.8	0.287	1.629	0.012	1200.	368.	-16.3	0.2930	0.52	0.20	2.10	358.0	15.0	304.8	2.0	0	0.00	36.	1000.	2	NAD-SFC	NoSubs
7	7	3	184	17	89.8	0.323	1.456	0.012	1227.	441.	-33.4	0.2940	0.52	0.22	2.60	12.0	15.0	304.6	2.0	0	0.00	37.	999.	2	NAD-SFC	NoSubs
7	7	3	184	18	44.8	0.260	1.159	0.012	1240.	319.	-34.8	0.2940	0.52	0.27	2.10	17.0	15.0	304.2	2.0	0	0.00	45.	1000.	2	NAD-SFC	NoSubs
7	7	3	184	19	0.8	0.157	0.305	0.012	1239.	155.	-427.9	0.2940	0.52	0.46	1.50	17.0	15.0	303.4	2.0	0	0.00	47.	1000.	2	NAD-SFC	NoSubs
7	7	3	184	20	-3.9	0.101	-9.000	-9.000	-999.	78.	23.7	0.2940	0.52	1.00	1.00	19.0	15.0	302.0	2.0	0	0.00	51.	1000.	2	NAD-SFC	NoSubs
7	7	3	184	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	300.4	2.0	0	0.00	56.	1000.	2	NAD-SFC	NoSubs
7	7	3	184	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	298.9	2.0	0	0.00	63.	999.	2	NAD-SFC	NoSubs
7	7	3	184	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	297.6	2.0	0	0.00	69.	999.	2	NAD-SFC	NoSubs
7	7	3	184	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	296.6	2.0	0	0.00	72.	999.	2	NAD-SFC	NoSubs
7	7	4	185	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	295.9	2.0	0	0.00	75.	999.	2	NAD-SFC	NoSubs
7	7	4	185	2	-8.2	0.140	-9.000	-9.000	-999.	125.	29.7	0.2930	0.52	1.00	1.50	359.0	15.0	295.4	2.0	0	0.00	77.	999.	2	NAD-SFC	NoSubs
7	7	4	185	3	-25.6	0.252	-9.000	-9.000	-999.	303.	55.6	0.2940	0.52	1.00	2.60	10.0	15.0	294.8	2.0	0	0.00	80.	1000.	2	NAD-SFC	NoSubs
7	7	4	185	4	-25.7	0.252	-9.000	-9.000	-999.	303.	55.5	0.2940	0.52	1.00	2.60	11.0	15.0	294.0	2.0	0	0.00	85.	1000.	2	NAD-SFC	NoSubs
7	7	4	185	5	-16.5	0.200	-9.000	-9.000	-999.	215.	43.3	0.2940	0.52	1.00	2.10	6.0	15.0	293.2	2.0	0	0.00	88.	1000.	2	NAD-SFC	NoSubs
7	7	4	185	6	10.7	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.47	0.00	0.0	15.0	292.9	2.0	0	0.00	89.	1001.	2	NAD-SFC	NoSubs
7	7	4	185	7	37.8	0.256	0.556	0.009	162.	311.	-39.6	0.2930	0.52	0.28	2.10	351.0	15.0	294.4	2.0	0	0.00	78.	1001.	2	NAD-SFC	NoSubs
7	7	4	185	8	83.6	-9.000	-9.000	-9.000	276.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	296.4	2.0	0	0.00	71.	1001.	2	NAD-SFC	NoSubs
7	7	4	185	9	123.7	-9.000	-9.000	-9.000	412.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	298.2	2.0	0	0.00	64.	1000.	2	NAD-SFC	NoSubs
7	7	4	185	10	155.9	-9.000	-9.000	-9.000	627.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.1	2.0	0	0.00	58.	999.	2	NAD-SFC	NoSubs
7	7	4	185	11	178.8	-9.000	-9.000	-9.000	746.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.5	2.0	0	0.00	47.	999.	2	NAD-SFC	NoSubs
7	7	4	185	12	190.7	-9.000	-9.000	-9.000	844.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	304.6	2.0	0	0.00	39.	998.	2	NAD-SFC	NoSubs
7	7	4	185	13	191.9	-9.000	-9.000	-9.000	933.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	306.2	2.0	0	0.00	34.	997.	2	NAD-SFC	NoSubs
7	7	4	185	14	182.5	-9.000	-9.000	-9.000	1005.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	307.5	2.0	0	0.00	31.	996.	2	NAD-SFC	NoSubs
7	7	4	185	15	161.7	0.121	1.688	0.013	1059.	101.	-1.0	0.2930	0.52	0.19	0.50	343.0	15.0	308.2	2.0	0	0.00	30.	996.	2	NAD-SFC	NoSubs
7	7	4	185	16	131.0	0.334	1.594	0.013	1100.	464.	-25.3	0.2940	0.52	0.20	2.60	15.0	15.0	308.5	2.0	0	0.00	30.	996.	2	NAD-SFC	NoSubs
7	7	4	185	17	91.6	0.324	1.426	0.013	1127.	442.	-32.9	0.2940	0.52	0.22	2.60	18.0	15.0	307.8	2.0	0	0.00	39.	996.	2	NAD-SFC	NoSubs
7	7	4	185	18	46.5	0.295	1.142	0.013	1140.	385.	-49.1	0.2470	0.52	0.27	2.60	34.0	15.0	307.2	2.0	0	0.00	44.	996.	2	NAD-SFC	NoSubs
7	7	4	185	19	2.3	0.211	0.419	0.013	1139.	236.	-367.1	0.2470	0.52	0.46	2.10	30.0	15.0	306.2	2.0	0	0.00	46.	996.	2	NAD-SFC	NoSubs
7	7	4	185	20	-1.4	0.079	-9.000	-9.000	-999.	70.	31.0	0.2160	0.52	1.00	0.50	277.0	15.0	304.8	2.0	0	0.00	50.	997.	2	NAD-SFC	NoSubs
7	7	4	185	21	-37.8	0.373	-9.000	-9.000	-999.	546.	121.9	0.2160	0.52	1.00	4.10	285.0	15.0	303.4	2.0	0	0.00	53.	997.	2	NAD-SFC	NoSubs
7	7	4	185	22	-38.2	0.373	-9.000	-9.000	-999.	546.	120.3	0.2160	0.52	1.00	4.10	294.0	15.0	299.8	2.0	0	0.00	65.	997.	2	NAD-SFC	NoSubs
7	7	4	185	23	-33.6	0.325	-9.000	-9.000	-999.	447.	91.4	0.2160	0.52	1.00	3.60	297.0	15.0	298.5	2.0	0	0.00	67.	998.	2	NAD-SFC	NoSubs
7	7	4	185	24	-30.6	0.297	-9.000	-9.000	-999.	388.	75.7	0.2720	0.52	1.00	3.10	321.0	15.0	297.8	2.0	0	0.00	66.	997.	2	NAD-SFC	NoSubs
7	7	5	186	1	-31.4	0.303	-9.000	-9.000	-999.	401.	79.0	0.2930	0.52	1.00	3.10	346.0	15.0	297.2	2.0	0	0.00	67.	998.	2	NAD-SFC	NoSubs
7	7	5	186	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	296.6	2.0	0	0.00	68.	998.	2	NAD-SFC	NoSubs
7	7	5	186	3	-25.5	0.252	-9.000	-9.000	-999.	303.	55.7	0.2940	0.52	1.00	2.60	4.0	15.0	296.2	2.0	0	0.00	68.	998.	2	NAD-SFC	NoSubs
7	7	5	186	4	-8.2	0.140	-9.000	-9.000	-999.	132.	29.7	0.2930	0.52	1.00	1.50	342.0	15.0	295.8	2.0	0	0.00	68.	998.	2	NAD-SFC	NoSubs
7	7	5	186	5	-7.9	0.137	-9.000	-9.000	-999.	122.	28.9	0.2720	0.52	1.00	1.50	307.0	15.0	295.4	2.0	0	0.00	70.	999.	2	NAD-SFC	NoSubs
7	7	5	186	6	-6.9	0.202	-9.000	-9.000	-999.	219.	106.8	0.2720	0.52	0.48	2.10	306.0	15.0	295.1	2.0	0	0.00	72.	999.	2	NAD-SFC	NoSubs
7	7	5	186	7	38.0	0.197	0.494	0.011	113.	211.	-18.1	0.2720	0.52	0.28	1.50	323.0	15.0	295.8	2.0	0	0.00	73.	999.	2	NAD-SFC	NoSubs
7	7	5	186	8	83.5	0.165	0.813	0.011	229.	161.	-4.8	0.2720	0.52	0.22	1.00	318.0	15.0	296.9	2.0	0	0.00	70.	999.	2	NAD-SFC	NoSubs
7	7	5	186	9	123.6	-9.000	-9.000	-9.000	356.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	298.8	2.0	0	0.00	65.	999.	2	NAD-SFC	NoSubs
7	7	5	186	10	156.1	-9.000	-9.000	-9.000	525.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.0	2.0	0	0.00	57.	998.	2	NAD-SFC	NoSubs
7	7	5	186	11	179.1	-9.000	-9.000	-9.000	676.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.4	2.0	0	0.00	48.	998.	2	NAD-SFC	NoSubs
7	7	5	186	12	190.9	-9.000	-9.000	-9.000	767.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	305.2	2.0	0	0.00	43.	997.	2	NAD-SFC	NoSubs
7	7	5	186	13	192.2	0.124	1.662	0.013	849.	104.	-1.0	0.2940	0.52	0.19	0.50	8.0	15.0	306.9	2.0	0	0.00	39.	996.	2	NAD-SFC	NoSubs
7	7	5	186	14	182.9	-9.000	-9.000	-9.000	921.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	308.2	2.0	0	0.00	36.	996.	2	NAD-SFC	NoSubs
7	7	5	186	15	162.2	0.182	1.648	0.011	981.	187.	-3.3	0.2940	0.52	0.19	1.00	15.0	15.0	309.1	2.0	0	0.00	34.	995.	2	NAD-SFC	NoSubs
7	7	5	186	16	131.6	0.288	1.561	0.011	1027.	370.	-16.1	0.2940	0.52	0.20	2.10	15.0	15.0	309.4	2.0	0	0.00	33.	995.	2	NAD-SFC	NoSubs
7	7	5	186	17	92.3	0.278	1.401	0.010	1057.	352.	-20.6	0.2940	0.52	0.22	2.10	24.0	15.0	308.9	2.0	0	0.00	42.	995.	2	NAD-SFC	NoSubs
7	7	5	186	18	47.2	0.261	1.126	0.010	1072.	320.	-33.4	0.2940	0.52	0.27	2.10	17.0	15.0	308.5	2.0	0	0.00	45.	995.	2	NAD-SFC	NoSubs
7	7	5	186	19	3.1	0.222	0.452	0.010	1072.	252.	-318.0	0.2930	0.52	0.46	2.10	331.0	15.0	307.6	2.0	0	0.00	47.	995.	2	NAD-SFC	NoSubs
7	7	5	186	20	-50.1	0.499	-9.000	-9.000	-999.	845.	219.8	0.2720	0.52	1.00	5.10	303.0	15.0	305.8	2.0	0	0.00	51.	996.	2	NAD-SFC	NoSubs
7	7	5	186	21	-47.8	0.468	-9.000	-9.000	-999.	769.	190.1	0.2160	0.52	1.00	5.10	281.0	15.0	300.6	2.0	0	0.00	63.	997.	2	NAD-SFC	NoSubs
7	7	5	186	22	-43.4	0.420	-9.000	-9.000	-999.	656.	152.1	0.2160	0.52	1.00	4.60	276.0	15.0	298.2	2.0	0	0.00	66.	998.	2	NAD-SFC	NoSubs
7	7	5	186	23	-28.8	0.278	-9.000	-9.000	-999.	366.	66.4	0.2160	0.52	1.00	3.10	296.0	15.0	297.1	2.0	0	0.00	68.	998.	2	NAD-SFC	NoSubs
7	7	5	186	24	-25.5	0.252	-9.000	-9.000	-999.	303.	55.7	0.2930	0.52	1.00	2.60	334.0	15.0	296.6	2.0	0	0.00	67.	999.	2	NAD-SFC	NoSubs
7	7	6	187	1	-16.4	0.200	-9.000	-9.000	-999.	216.	43.5	0.2940	0.52	1.00	2.10	9.0	15.0	296.1	2.0	0	0.00	69.	999.	2	NAD-SFC	NoSubs

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 7  7  6 187  2   -8.2  0.140 -9.000 -9.000 -999.  126.     29.8  0.2940  0.52  1.00  1.50   29.0  15.0 295.6  2.0   0  0.00  71.  1000.    2 NAD-SFC NoSubs
 7  7  6 187  3   -1.6  0.084 -9.000 -9.000 -999.   59.     31.9  0.2940  0.52  1.00  0.50   14.0  15.0 295.1  2.0   0  0.00  71.  1000.    2 NAD-SFC NoSubs
 7  7  6 187  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0 294.8  2.0   0  0.00  72.  1000.    2 NAD-SFC NoSubs
 7  7  6 187  5   -1.4  0.079 -9.000 -9.000 -999.   53.     30.8  0.1750  0.52  1.00  0.50  269.0  15.0 294.6  2.0   0  0.00  71.  1000.    2 NAD-SFC NoSubs
 7  7  6 187  6   18.3 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.48  0.00    0.0  15.0 294.5  2.0   0  0.00  71.  1000.    2 NAD-SFC NoSubs
 7  7  6 187  7   38.0  0.150  0.557  0.013  163.  139.     -7.9  0.2720  0.52  0.28  1.00  303.0  15.0 296.5  2.0   0  0.00  61.  1000.    2 NAD-SFC NoSubs
 7  7  6 187  8   83.8 -9.000 -9.000 -9.000  275. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0 298.4  2.0   0  0.00  56.  1000.    2 NAD-SFC NoSubs
 7  7  6 187  9  124.2 -9.000 -9.000 -9.000  402. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0 300.6  2.0   0  0.00  50.   999.    2 NAD-SFC NoSubs
 7  7  6 187 10  156.6 -9.000 -9.000 -9.000  524. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 302.5  2.0   0  0.00  46.   998.    2 NAD-SFC NoSubs
 7  7  6 187 11  179.4 -9.000 -9.000 -9.000  636. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 304.2  2.0   0  0.00  43.   998.    2 NAD-SFC NoSubs
 7  7  6 187 12  191.3  0.123  1.587  0.012  744.  104.     -1.0  0.2930  0.52  0.19  0.50  357.0  15.0 306.0  2.0   0  0.00  40.   997.    2 NAD-SFC NoSubs
 7  7  6 187 13  192.5 -9.000 -9.000 -9.000  841. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 307.5  2.0   0  0.00  36.   997.    2 NAD-SFC NoSubs
 7  7  6 187 14  183.1 -9.000 -9.000 -9.000  924. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 308.6  2.0   0  0.00  33.   997.    2 NAD-SFC NoSubs
 7  7  6 187 15  162.3  0.294  1.653  0.011  991.  383.    -13.9  0.2940  0.52  0.19  2.10    8.0  15.0 309.2  2.0   0  0.00  32.   996.    2 NAD-SFC NoSubs
 7  7  6 187 16  131.7  0.334  1.568  0.011 1042.  464.    -25.2  0.2940  0.52  0.20  2.60   14.0  15.0 309.6  2.0   0  0.00  31.   996.    2 NAD-SFC NoSubs
 7  7  6 187 17   92.4  0.278  1.408  0.011 1074.  353.    -20.6  0.2940  0.52  0.22  2.10    8.0  15.0 309.1  2.0   0  0.00  39.   996.    2 NAD-SFC NoSubs
 7  7  6 187 18   47.3  0.353  1.132  0.011 1090.  502.    -82.3  0.2930  0.52  0.27  3.10  342.0  15.0 308.8  2.0   0  0.00  41.   997.    2 NAD-SFC NoSubs
 7  7  6 187 19    2.3  0.510  0.416  0.011 1087.  874.  -5041.2  0.2720  0.52  0.46  5.10  315.0  15.0 306.5  2.0   0  0.00  44.   997.    2 NAD-SFC NoSubs
 7  7  6 187 20  -47.8  0.468 -9.000 -9.000 -999.  770.    190.5  0.2160  0.52  1.00  5.10  290.0  15.0 301.2  2.0   0  0.00  53.   998.    2 NAD-SFC NoSubs
 7  7  6 187 21  -48.3  0.468 -9.000 -9.000 -999.  767.    188.8  0.2160  0.52  1.00  5.10  292.0  15.0 298.6  2.0   0  0.00  59.   999.    2 NAD-SFC NoSubs
 7  7  6 187 22  -41.2  0.397 -9.000 -9.000 -999.  605.    135.3  0.2720  0.52  1.00  4.10  305.0  15.0 296.8  2.0   0  0.00  63.   999.    2 NAD-SFC NoSubs
 7  7  6 187 23  -36.2  0.347 -9.000 -9.000 -999.  492.    102.8  0.2720  0.52  1.00  3.60  308.0  15.0 295.8  2.0   0  0.00  64.  1000.    2 NAD-SFC NoSubs
 7  7  6 187 24  -25.6  0.252 -9.000 -9.000 -999.  308.     55.6  0.2940  0.52  1.00  2.60    5.0  15.0 295.2  2.0   0  0.00  64.  1000.    2 NAD-SFC NoSubs
 7  7  7 188  1  -30.2  0.288 -9.000 -9.000 -999.  372.     70.9  0.2470  0.52  1.00  3.10   34.0  15.0 294.6  2.0   0  0.00  68.  1001.    2 NAD-SFC NoSubs
 7  7  7 188  2   -8.2  0.140 -9.000 -9.000 -999.  142.     29.7  0.2940  0.52  1.00  1.50    5.0  15.0 294.0  2.0   0  0.00  71.  1001.    2 NAD-SFC NoSubs
 7  7  7 188  3  -14.3  0.183 -9.000 -9.000 -999.  188.     38.3  0.2160  0.52  1.00  2.10  289.0  15.0 293.4  2.0   0  0.00  72.  1002.    2 NAD-SFC NoSubs
 7  7  7 188  4  -22.3  0.231 -9.000 -9.000 -999.  266.     49.1  0.2160  0.52  1.00  2.60  287.0  15.0 292.8  2.0   0  0.00  75.  1002.    2 NAD-SFC NoSubs
 7  7  7 188  5  -31.4  0.296 -9.000 -9.000 -999.  387.     74.2  0.2720  0.52  1.00  3.10  304.0  15.0 292.1  2.0   0  0.00  77.  1002.    2 NAD-SFC NoSubs
 7  7  7 188  6  -10.6  0.252 -9.000 -9.000 -999.  304.    135.2  0.2720  0.52  0.48  2.60  302.0  15.0 292.4  2.0   0  0.00  76.  1002.    2 NAD-SFC NoSubs
 7  7  7 188  7   36.6  0.239  0.525  0.011  141.  281.    -33.4  0.2160  0.52  0.28  2.10  297.0  15.0 293.8  2.0   0  0.00  69.  1002.    2 NAD-SFC NoSubs
 7  7  7 188  8   82.5 -9.000 -9.000 -9.000  229. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0 295.9  2.0   0  0.00  62.  1002.    2 NAD-SFC NoSubs
 7  7  7 188  9  122.8 -9.000 -9.000 -9.000  361. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0 297.8  2.0   0  0.00  56.  1002.    2 NAD-SFC NoSubs
 7  7  7 188 10  155.1 -9.000 -9.000 -9.000  505. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 299.8  2.0   0  0.00  51.  1001.    2 NAD-SFC NoSubs
 7  7  7 188 11  178.0 -9.000 -9.000 -9.000  639. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 301.8  2.0   0  0.00  47.  1001.    2 NAD-SFC NoSubs
 7  7  7 188 12  189.8 -9.000 -9.000 -9.000  746. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 303.5  2.0   0  0.00  42.  1000.    2 NAD-SFC NoSubs
 7  7  7 188 13  191.0 -9.000 -9.000 -9.000  839. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 304.9  2.0   0  0.00  39.   999.    2 NAD-SFC NoSubs
 7  7  7 188 14  181.5  0.123  1.672  0.010  919.  103.     -1.0  0.2930  0.52  0.19  0.50  347.0  15.0 306.0  2.0   0  0.00  36.   999.    2 NAD-SFC NoSubs
 7  7  7 188 15  160.7  0.182  1.646  0.010  989.  187.     -3.3  0.2940  0.52  0.19  1.00   10.0  15.0 306.8  2.0   0  0.00  34.   998.    2 NAD-SFC NoSubs
 7  7  7 188 16  130.1  0.229  1.565  0.010 1051.  263.     -8.2  0.2940  0.52  0.20  1.50    9.0  15.0 307.1  2.0   0  0.00  33.   998.    2 NAD-SFC NoSubs
 7  7  7 188 17   90.9  0.323  1.406  0.010 1091.  441.    -33.1  0.2940  0.52  0.22  2.60   20.0  15.0 306.8  2.0   0  0.00  37.   998.    2 NAD-SFC NoSubs
 7  7  7 188 18   45.6  0.306  1.124  0.010 1109.  407.    -56.0  0.2940  0.52  0.27  2.60   25.0  15.0 306.0  2.0   0  0.00  45.   998.    2 NAD-SFC NoSubs
 7  7  7 188 19    1.5  0.318  0.358  0.010 1108.  430.  -1934.2  0.2940  0.52  0.46  3.10   14.0  15.0 305.1  2.0   0  0.00  48.   998.    2 NAD-SFC NoSubs
 7  7  7 188 20  -35.2  0.347 -9.000 -9.000 -999.  490.    105.7  0.2720  0.52  1.00  3.60  306.0  15.0 303.6  2.0   0  0.00  50.   998.    2 NAD-SFC NoSubs
 7  7  7 188 21  -48.1  0.468 -9.000 -9.000 -999.  767.    189.2  0.2160  0.52  1.00  5.10  279.0  15.0 299.2  2.0   0  0.00  65.   998.    2 NAD-SFC NoSubs
 7  7  7 188 22  -46.0  0.443 -9.000 -9.000 -999.  709.    168.3  0.1750  0.52  1.00  5.10  269.0  15.0 296.8  2.0   0  0.00  71.   998.    2 NAD-SFC NoSubs
 7  7  7 188 23  -36.8  0.353 -9.000 -9.000 -999.  509.    106.5  0.1750  0.52  1.00  4.10  268.0  15.0 295.6  2.0   0  0.00  73.   998.    2 NAD-SFC NoSubs
 7  7  7 188 24  -29.0  0.278 -9.000 -9.000 -999.  355.     65.9  0.2160  0.52  1.00  3.10  286.0  15.0 294.8  2.0   0  0.00  76.   998.    2 NAD-SFC NoSubs
 7  7  8 189  1  -24.7  0.246 -9.000 -9.000 -999.  293.     53.8  0.2720  0.52  1.00  2.60  300.0  15.0 294.2  2.0   0  0.00  77.   999.    2 NAD-SFC NoSubs
 7  7  8 189  2  -24.7  0.246 -9.000 -9.000 -999.  293.     53.8  0.2720  0.52  1.00  2.60  312.0  15.0 293.9  2.0   0  0.00  77.   999.    2 NAD-SFC NoSubs
 7  7  8 189  3  -24.7  0.246 -9.000 -9.000 -999.  293.     53.7  0.2720  0.52  1.00  2.60  316.0  15.0 293.8  2.0   0  0.00  77.   999.    2 NAD-SFC NoSubs
 7  7  8 189  4  -24.7  0.246 -9.000 -9.000 -999.  293.     53.7  0.2720  0.52  1.00  2.60  316.0  15.0 293.4  2.0   0  0.00  78.   999.    2 NAD-SFC NoSubs
 7  7  8 189  5  -15.9  0.195 -9.000 -9.000 -999.  208.     41.9  0.2720  0.52  1.00  2.10  318.0  15.0 293.2  2.0   0  0.00  79.  1000.    2 NAD-SFC NoSubs
 7  7  8 189  6   -8.5  0.201 -9.000 -9.000 -999.  217.     85.5  0.2720  0.52  0.48  2.10  315.0  15.0 293.2  2.0   0  0.00  79.  1000.    2 NAD-SFC NoSubs
 7  7  8 189  7   36.6  0.251  0.543  0.010  156.  302.    -38.7  0.2720  0.52  0.28  2.10  300.0  15.0 294.5  2.0   0  0.00  71.  1001.    2 NAD-SFC NoSubs
 7  7  8 189  8   82.3  0.108  0.903  0.010  319.  102.     -1.4  0.2720  0.52  0.22  0.50  304.0  15.0 296.2  2.0   0  0.00  66.  1001.    2 NAD-SFC NoSubs
 7  7  8 189  9  122.6 -9.000 -9.000 -9.000  476. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0 298.0  2.0   0  0.00  62.  1000.    2 NAD-SFC NoSubs
 7  7  8 189 10  155.0 -9.000 -9.000 -9.000  612. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 299.9  2.0   0  0.00  58.  1000.    2 NAD-SFC NoSubs
 7  7  8 189 11  177.9 -9.000 -9.000 -9.000  723. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 301.8  2.0   0  0.00  52.   999.    2 NAD-SFC NoSubs
 7  7  8 189 12  189.8 -9.000 -9.000 -9.000  818. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 303.6  2.0   0  0.00  46.   998.    2 NAD-SFC NoSubs
 7  7  8 189 13  190.9 -9.000 -9.000 -9.000  904. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 305.0  2.0   0  0.00  40.   998.    2 NAD-SFC NoSubs
 7  7  8 189 14  181.5  0.121  1.708  0.012  978.  100.     -1.0  0.2720  0.52  0.19  0.50  327.0  15.0 306.1  2.0   0  0.00  36.   997.    2 NAD-SFC NoSubs
 7  7  8 189 15  160.8  0.121  1.671  0.011 1033.  100.     -1.0  0.2930  0.52  0.19  0.50  355.0  15.0 306.9  2.0   0  0.00  34.   997.    2 NAD-SFC NoSubs
 7  7  8 189 16  130.1  0.178  1.579  0.011 1075.  180.     -3.8  0.2940  0.52  0.20  1.00    3.0  15.0 307.2  2.0   0  0.00  33.   996.    2 NAD-SFC NoSubs
 7  7  8 189 17   91.1  0.277  1.414  0.011 1104.  350.    -20.8  0.2930  0.52  0.22  2.10  353.0  15.0 307.2  2.0   0  0.00  34.   996.    2 NAD-SFC NoSubs
 7  7  8 189 18   45.9  0.301  1.130  0.011 1116.  396.    -52.8  0.2720  0.52  0.27  2.60  316.0  15.0 306.8  2.0   0  0.00  43.   997.    2 NAD-SFC NoSubs
 7  7  8 189 19    0.1  0.481  0.158  0.011 1110.  801.  -8888.0  0.2160  0.52  0.46  5.10  289.0  15.0 302.8  2.0   0  0.00  54.   997.    2 NAD-SFC NoSubs
 7  7  8 189 20  -48.3  0.468 -9.000 -9.000 -999.  768.    188.5  0.2160  0.52  1.00  5.10  277.0  15.0 298.2  2.0   0  0.00  62.   998.    2 NAD-SFC NoSubs
 7  7  8 189 21  -43.7  0.420 -9.000 -9.000 -999.  655.    150.9  0.2160  0.52  1.00  4.60  281.0  15.0 296.1  2.0   0  0.00  64.   998.    2 NAD-SFC NoSubs
 7  7  8 189 22  -34.0  0.325 -9.000 -9.000 -999.  451.     90.1  0.2160  0.52  1.00  3.60  288.0  15.0 294.8  2.0   0  0.00  67.   999.    2 NAD-SFC NoSubs
 7  7  8 189 23  -31.1  0.296 -9.000 -9.000 -999.  388.     74.7  0.2720  0.52  1.00  3.10  308.0  15.0 294.0  2.0   0  0.00  68.   999.    2 NAD-SFC NoSubs
 7  7  8 189 24  -31.8  0.303 -9.000 -9.000 -999.  400.     77.9  0.2930  0.52  1.00  3.10  343.0  15.0 293.5  2.0   0  0.00  69.   999.    2 NAD-SFC NoSubs
 7  7  9 190  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0 293.0  2.0   0  0.00  70.  1000.    2 NAD-SFC NoSubs
 7  7  9 190  2  -37.4  0.355 -9.000 -9.000 -999.  507.    106.3  0.2940  0.52  1.00  3.60   12.0  15.0 292.2  2.0   0  0.00  73.  1000.    2 NAD-SFC NoSubs
 7  7  9 190  3  -37.5  0.355 -9.000 -9.000 -999.  507.    106.0  0.2940  0.52  1.00  3.60   12.0  15.0 291.6  2.0   0  0.00  75.  1000.    2 NAD-SFC NoSubs
 7  7  9 190  4  -37.6  0.355 -9.000 -9.000 -999.  507.    105.9  0.2940  0.52  1.00  3.60   10.0  15.0 291.1  2.0   0  0.00  77.  1000.    2 NAD-SFC NoSubs
 7  7  9 190  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0 290.6  2.0   0  0.00  78.  1001.    2 NAD-SFC NoSubs
 7  7  9 190  6  -12.2  0.257 -9.000 -9.000 -999.  312.    124.0  0.2930  0.52  0.49  2.60  347.0  15.0 291.0  2.0   0  0.00  75.  1001.    2 NAD-SFC NoSubs
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7	7	9	190	7	35.6	0.255	0.519	0.012	140.	309.	-41.5	0.2930	0.52	0.28	2.10	341.0	15.0	292.6	2.0	0	0.00	68.	1001.	2	NAD-SFC	NoSubs
7	7	9	190	8	81.4	0.110	0.819	0.013	241.	104.	-1.4	0.2930	0.52	0.22	0.50	354.0	15.0	294.6	2.0	0	0.00	64.	1001.	2	NAD-SFC	NoSubs
7	7	9	190	9	121.8	-9.000	-9.000	-9.000	350.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.6	2.0	0	0.00	60.	1001.	2	NAD-SFC	NoSubs
7	7	9	190	10	154.3	-9.000	-9.000	-9.000	467.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.8	2.0	0	0.00	55.	1000.	2	NAD-SFC	NoSubs
7	7	9	190	11	177.2	-9.000	-9.000	-9.000	583.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.8	2.0	0	0.00	48.	1000.	2	NAD-SFC	NoSubs
7	7	9	190	12	189.1	-9.000	-9.000	-9.000	704.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.5	2.0	0	0.00	43.	999.	2	NAD-SFC	NoSubs
7	7	9	190	13	190.3	-9.000	-9.000	-9.000	848.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	304.0	2.0	0	0.00	38.	998.	2	NAD-SFC	NoSubs
7	7	9	190	14	180.9	0.122	1.698	0.012	964.	103.	-1.0	0.2930	0.52	0.19	0.50	332.0	15.0	305.1	2.0	0	0.00	35.	998.	2	NAD-SFC	NoSubs
7	7	9	190	15	160.1	0.118	1.665	0.012	1027.	98.	-1.0	0.2720	0.52	0.19	0.50	318.0	15.0	305.8	2.0	0	0.00	33.	997.	2	NAD-SFC	NoSubs
7	7	9	190	16	129.5	0.229	1.574	0.012	1073.	263.	-8.2	0.2930	0.52	0.20	1.50	346.0	15.0	306.2	2.0	0	0.00	30.	997.	2	NAD-SFC	NoSubs
7	7	9	190	17	90.3	0.277	1.410	0.011	1104.	350.	-21.0	0.2940	0.52	0.22	2.10	4.0	15.0	306.0	2.0	0	0.00	34.	997.	2	NAD-SFC	NoSubs
7	7	9	190	18	45.1	-9.000	-9.000	-9.000	1118.	-999.	-99999.0	0.2235	0.52	0.27	0.00	0.0	15.0	305.4	2.0	0	0.00	42.	997.	2	NAD-SFC	NoSubs
7	7	9	190	19	0.7	0.417	0.277	0.011	1115.	647.	-8888.0	0.2930	0.52	0.46	4.10	336.0	15.0	304.0	2.0	0	0.00	46.	998.	2	NAD-SFC	NoSubs
7	7	9	190	20	-51.3	0.498	-9.000	-9.000	-999.	844.	215.1	0.2720	0.52	1.00	5.10	305.0	15.0	299.5	2.0	0	0.00	58.	999.	2	NAD-SFC	NoSubs
7	7	9	190	21	-54.6	0.525	-9.000	-9.000	-999.	912.	235.9	0.2160	0.52	1.00	5.70	281.0	15.0	296.1	2.0	0	0.00	65.	999.	2	NAD-SFC	NoSubs
7	7	9	190	22	-44.0	0.420	-9.000	-9.000	-999.	662.	150.2	0.2160	0.52	1.00	4.60	284.0	15.0	294.6	2.0	0	0.00	69.	1000.	2	NAD-SFC	NoSubs
7	7	9	190	23	-39.2	0.372	-9.000	-9.000	-999.	548.	117.7	0.2160	0.52	1.00	4.10	290.0	15.0	293.5	2.0	0	0.00	71.	1001.	2	NAD-SFC	NoSubs
7	7	9	190	24	-36.5	0.347	-9.000	-9.000	-999.	491.	101.8	0.2720	0.52	1.00	3.60	304.0	15.0	293.0	2.0	0	0.00	72.	1001.	2	NAD-SFC	NoSubs
7	7	10	191	1	-25.7	0.252	-9.000	-9.000	-999.	307.	55.3	0.2930	0.52	1.00	2.60	335.0	15.0	292.9	2.0	0	0.00	71.	1001.	2	NAD-SFC	NoSubs
7	7	10	191	2	-32.0	0.303	-9.000	-9.000	-999.	401.	77.9	0.2940	0.52	1.00	3.10	11.0	15.0	292.8	2.0	0	0.00	71.	1002.	2	NAD-SFC	NoSubs
7	7	10	191	3	-32.1	0.303	-9.000	-9.000	-999.	401.	77.8	0.2940	0.52	1.00	3.10	12.0	15.0	292.5	2.0	0	0.00	71.	1002.	2	NAD-SFC	NoSubs
7	7	10	191	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	292.2	2.0	0	0.00	71.	1002.	2	NAD-SFC	NoSubs
7	7	10	191	5	-16.5	0.200	-9.000	-9.000	-999.	214.	43.1	0.2930	0.52	1.00	2.10	351.0	15.0	292.1	2.0	0	0.00	70.	1002.	2	NAD-SFC	NoSubs
7	7	10	191	6	-5.7	0.143	-9.000	-9.000	-999.	131.	46.4	0.2930	0.52	0.49	1.50	359.0	15.0	292.2	2.0	0	0.00	68.	1002.	2	NAD-SFC	NoSubs
7	7	10	191	7	35.3	0.199	0.525	0.010	146.	213.	-20.0	0.2930	0.52	0.29	1.50	345.0	15.0	292.9	2.0	0	0.00	64.	1002.	2	NAD-SFC	NoSubs
7	7	10	191	8	80.9	0.167	0.833	0.010	255.	164.	-5.1	0.2930	0.52	0.22	1.00	330.0	15.0	293.9	2.0	0	0.00	60.	1002.	2	NAD-SFC	NoSubs
7	7	10	191	9	121.2	-9.000	-9.000	-9.000	385.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	295.6	2.0	0	0.00	54.	1002.	2	NAD-SFC	NoSubs
7	7	10	191	10	153.5	-9.000	-9.000	-9.000	541.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.2	2.0	0	0.00	51.	1001.	2	NAD-SFC	NoSubs
7	7	10	191	11	176.4	-9.000	-9.000	-9.000	688.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.2	2.0	0	0.00	48.	1001.	2	NAD-SFC	NoSubs
7	7	10	191	12	188.3	-9.000	-9.000	-9.000	851.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.0	2.0	0	0.00	43.	1000.	2	NAD-SFC	NoSubs
7	7	10	191	13	189.4	-9.000	-9.000	-9.000	980.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.4	2.0	0	0.00	40.	999.	2	NAD-SFC	NoSubs
7	7	10	191	14	179.8	-9.000	-9.000	-9.000	1036.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.2	2.0	0	0.00	38.	999.	2	NAD-SFC	NoSubs
7	7	10	191	15	158.8	0.226	1.689	0.013	1082.	257.	-6.4	0.2470	0.52	0.19	1.50	46.0	15.0	303.4	2.0	0	0.00	38.	998.	2	NAD-SFC	NoSubs
7	7	10	191	16	127.6	0.266	1.588	0.013	1118.	330.	-13.2	0.2090	0.52	0.20	2.10	60.0	15.0	302.9	2.0	0	0.00	46.	998.	2	NAD-SFC	NoSubs
7	7	10	191	17	88.3	0.311	1.414	0.012	1140.	415.	-30.2	0.2470	0.52	0.22	2.60	52.0	15.0	302.4	2.0	0	0.00	51.	999.	2	NAD-SFC	NoSubs
7	7	10	191	18	43.2	-9.000	-9.000	-9.000	1151.	-999.	-99999.0	0.2235	0.52	0.28	0.00	0.0	15.0	301.9	2.0	0	0.00	52.	999.	2	NAD-SFC	NoSubs
7	7	10	191	19	-3.5	0.415	-9.000	-9.000	-999.	642.	1840.9	0.2720	0.52	0.46	4.10	302.0	15.0	300.8	2.0	0	0.00	54.	1000.	2	NAD-SFC	NoSubs
7	7	10	191	20	-38.6	0.373	-9.000	-9.000	-999.	547.	119.5	0.2160	0.52	1.00	4.10	294.0	15.0	297.8	2.0	0	0.00	58.	1001.	2	NAD-SFC	NoSubs
7	7	10	191	21	-43.9	0.420	-9.000	-9.000	-999.	653.	150.6	0.2160	0.52	1.00	4.60	284.0	15.0	295.4	2.0	0	0.00	61.	1001.	2	NAD-SFC	NoSubs
7	7	10	191	22	-34.2	0.325	-9.000	-9.000	-999.	451.	89.9	0.2160	0.52	1.00	3.60	299.0	15.0	294.0	2.0	0	0.00	65.	1002.	2	NAD-SFC	NoSubs
7	7	10	191	23	-36.6	0.347	-9.000	-9.000	-999.	490.	101.9	0.2720	0.52	1.00	3.60	321.0	15.0	293.1	2.0	0	0.00	67.	1003.	2	NAD-SFC	NoSubs
7	7	10	191	24	-41.0	0.397	-9.000	-9.000	-999.	600.	136.7	0.2720	0.52	1.00	4.10	304.0	15.0	292.1	2.0	0	0.00	69.	1003.	3	NAD-SFC	NoSubs
7	7	11	192	1	-35.9	0.347	-9.000	-9.000	-999.	492.	104.0	0.2720	0.52	1.00	3.60	306.0	15.0	291.5	2.0	0	0.00	70.	1003.	3	NAD-SFC	NoSubs
7	7	11	192	2	-25.5	0.252	-9.000	-9.000	-999.	308.	55.9	0.2930	0.52	1.00	2.60	342.0	15.0	291.2	2.0	0	0.00	69.	1003.	3	NAD-SFC	NoSubs
7	7	11	192	3	-15.1	0.190	-9.000	-9.000	-999.	200.	40.8	0.2470	0.52	1.00	2.10	31.0	15.0	291.0	2.0	0	0.00	69.	1003.	3	NAD-SFC	NoSubs
7	7	11	192	4	-7.5	0.133	-9.000	-9.000	-999.	117.	28.1	0.2470	0.52	1.00	1.50	54.0	15.0	291.0	2.0	0	0.00	68.	1003.	3	NAD-SFC	NoSubs
7	7	11	192	5	-3.7	0.098	-9.000	-9.000	-999.	74.	22.9	0.2470	0.52	1.00	1.00	51.0	15.0	290.8	2.0	0	0.00	69.	1003.	3	NAD-SFC	NoSubs
7	7	11	192	6	-0.7	0.058	-9.000	-9.000	-999.	34.	24.7	0.2470	0.52	0.49	0.50	37.0	15.0	290.8	2.0	0	0.00	70.	1004.	3	NAD-SFC	NoSubs
7	7	11	192	7	35.9	0.097	0.522	0.010	141.	72.	-2.3	0.2720	0.52	0.29	0.50	315.0	15.0	292.5	2.0	0	0.00	64.	1004.	3	NAD-SFC	NoSubs
7	7	11	192	8	81.5	0.110	0.841	0.008	261.	87.	-1.5	0.2930	0.52	0.22	0.50	331.0	15.0	294.5	2.0	0	0.00	58.	1004.	3	NAD-SFC	NoSubs
7	7	11	192	9	121.2	0.114	1.096	0.006	389.	92.	-1.1	0.2720	0.52	0.20	0.50	318.0	15.0	296.2	2.0	0	0.00	52.	1003.	2	NAD-SFC	NoSubs
7	7	11	192	10	153.6	0.181	1.371	0.008	601.	185.	-3.4	0.2930	0.52	0.19	1.00	331.0	15.0	298.0	2.0	0	0.00	48.	1003.	2	NAD-SFC	NoSubs
7	7	11	192	11	176.4	0.122	1.562	0.010	773.	103.	-1.0	0.2930	0.52	0.19	0.50	345.0	15.0	299.6	2.0	0	0.00	46.	1003.	2	NAD-SFC	NoSubs
7	7	11	192	12	188.1	0.186	1.692	0.012	922.	192.	-3.0	0.2930	0.52	0.19	1.00	334.0	15.0	301.0	2.0	0	0.00	43.	1002.	2	NAD-SFC	NoSubs
7	7	11	192	13	189.2	0.240	1.751	0.012	1015.	282.	-6.5	0.2930	0.52	0.19	1.50	338.0	15.0	302.2	2.0	0	0.00	39.	1002.	2	NAD-SFC	NoSubs
7	7	11	192	14	179.7	0.297	1.756	0.012	1078.	388.	-13.0	0.2930	0.52	0.19	2.10	354.0	15.0	303.2	2.0	0	0.00	37.	1001.	2	NAD-SFC	NoSubs
7	7	11	192	15	158.8	0.386	1.712	0.012	1131.	576.	-32.4	0.2930	0.52	0.19	3.10	354.0	15.0	303.8	2.0	0	0.00	35.	1001.	2	NAD-SFC	NoSubs
7	7	11	192	16	128.1	0.471	1.613	0.012	1171.	775.	-72.7	0.2930	0.52	0.20	4.10	342.0	15.0	304.0	2.0	0	0.00	34.	1001.	2	NAD-SFC	NoSubs
7	7	11	192	17	88.6	0.362	1.437	0.012	1197.	532.	-48.0	0.2720	0.52	0.22	3.10	319.0	15.0	303.2	2.0	0	0.00	41.	1001.	2	NAD-SFC	NoSubs
7	7	11	192	18	42.9	0.414	1.131	0.012	1207.	640.	-148.1	0.2160	0.52	0.28	4.10	289.0	15.0	301.6	2.0	0	0.00	45.	1002.	2	NAD-SFC	NoSubs
7	7	11	192	19	-7.2	0.435	-9.000	-9.000	-999.	689.	1017.7	0.2160	0.52	0.46	4.60	284.0	15.0	298.1	2.0	0	0.00	50.	1003.	2	NAD-SFC	NoSubs
7	7	11	192	20	-41.7	0.398	-9.000	-9.000	-999.	604.	135.2	0.1750	0.52	1.00	4.60	268.0	15.0	295.4	2.0	0	0.00	54.	1003.	2	NAD-SFC	NoSubs
7	7	11	192	21	-43.2	0.420	-9.000	-9.000	-999.	653.	153.6	0.2160	0.52	1.00	4.60	270.0	15.0	293.5	2.0	0	0.00	59.	1004.	3	NAD-SFC	NoSubs
7	7	11	192	22	-38.5	0.373	-9.000	-9.000	-999.	548.	120.4	0.2160	0.52	1.00	4.10	282.0	15.0	292.2	2.0	0	0.00	62.	1005.	3	NAD-SFC	NoSubs
7	7	11	192	23	-22.1	0.231	-9.000	-9.000	-999.	280.	49.7	0.2160	0.52	1.00	2.60	283.0	15.0	291.6	2.0	0	0.00	64.	1005.	3	NAD-SFC	NoSubs
7	7	11	192	24	-3.9	0.100	-9.000	-9.000	-999.	91.	23.3	0.2720	0.52	1.00	1.00	316.0	15.0	291.4	2.0	0	0.00	64.	1005.	3	NAD-SFC	NoSubs
7	7	12	193	1	-1.5	0.081	-9.000	-9.000	-999.	56.	31.4	0.2470	0.52	1.00	0.50	43.0	15.0	291.1	2.0	0	0.00	64.	1006.	3	NAD-SFC	NoSubs
7	7	12	193	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	290.8	2.0	0	0.00	64.	1006.	3	NAD-SFC	NoSubs
7	7	12	193	3	-1.4	0.078	-9.000	-9.000	-999.	53.	30.7	0.1750	0.52	1.00	0.50	243.0	15.0	290.5	2.0	0	0.00	64.	1006.	3	NAD-SFC	NoSubs
7	7	12	193	4	-1.4	0.079	-9.000	-9.000	-999.	54.	31.0	0.1950	0.52	1.00	0.50	234.0	15.0	290.0	2.0	0	0.00	66.	1007.	3	NAD-SFC	NoSubs
7	7	12	193	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	289.5	2.0	0	0.00	68.	1007.	3	NAD-SFC	NoSubs
7	7	12	193	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.50	0.00	0.0	15.0	289.2	2.0	0	0.00	71.	1007.	3	NAD-SFC	NoSubs
7	7	12	193	7	35.3	-9.000	-9.000	-9.000	169.	-999.	-99999.0	0.2235	0.52	0.29	0.00	0.0	15.0	291.5	2.0	0	0.00	58.	1007.	3	NAD-SFC	NoSubs
7	7	12	193	8	80.7	-9.000	-9.000	-9.000	377.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	293.0	2.0	0	0.00	52.	1007.	3	NAD-SFC	NoSubs
7	7	12	193	9	120.7	-9.000	-9.000	-9.000	526.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	294.8	2.0	0	0.00	47.	1006.	3	NAD-SFC	NoSubs
7	7	12	193	10	152.8	-9.000	-9.000	-9.000	667.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.5	2.0	0	0.00	44.	1006.	3	NAD-SFC	NoSubs
7	7	12	193	11	175.6	-9.000	-9.000	-9.000	787.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.2	2.0	0	0.00	41.	1005.	2	NAD-SFC	NoSubs

7	7	12	193	12	187.5	-9.000	-9.000	-9.000	899.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.9	2.0	0	0.00	39.	1004.	2	NAD-SFC	NoSubs
7	7	12	193	13	188.6	-9.000	-9.000	-9.000	1002.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.1	2.0	0	0.00	37.	1004.	2	NAD-SFC	NoSubs
7	7	12	193	14	179.1	0.120	1.764	0.010	1099.	100.	-1.0	0.2720	0.52	0.19	0.50	327.0	15.0	302.1	2.0	0	0.00	36.	1003.	2	NAD-SFC	NoSubs
7	7	12	193	15	158.2	-9.000	-9.000	-9.000	1178.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.8	2.0	0	0.00	34.	1002.	2	NAD-SFC	NoSubs
7	7	12	193	16	127.6	0.229	1.640	0.011	1238.	262.	-8.4	0.2940	0.52	0.20	1.50	16.0	15.0	303.2	2.0	0	0.00	33.	1002.	2	NAD-SFC	NoSubs
7	7	12	193	17	88.5	0.323	1.467	0.012	1277.	440.	-33.9	0.2940	0.52	0.22	2.60	19.0	15.0	303.1	2.0	0	0.00	34.	1002.	2	NAD-SFC	NoSubs
7	7	12	193	18	43.2	0.293	1.160	0.012	1294.	382.	-52.3	0.2470	0.52	0.28	2.60	33.0	15.0	302.5	2.0	0	0.00	43.	1002.	2	NAD-SFC	NoSubs
7	7	12	193	19	-1.6	0.214	-9.000	-9.000	-999.	240.	560.4	0.2940	0.52	0.46	2.10	20.0	15.0	301.8	2.0	0	0.00	44.	1003.	2	NAD-SFC	NoSubs
7	7	12	193	20	-38.5	0.373	-9.000	-9.000	-999.	546.	120.3	0.2160	0.52	1.00	4.10	284.0	15.0	299.8	2.0	0	0.00	48.	1003.	2	NAD-SFC	NoSubs
7	7	12	193	21	-46.4	0.443	-9.000	-9.000	-999.	707.	167.4	0.1750	0.52	1.00	5.10	268.0	15.0	295.1	2.0	0	0.00	64.	1003.	2	NAD-SFC	NoSubs
7	7	12	193	22	-44.3	0.420	-9.000	-9.000	-999.	654.	149.4	0.2160	0.52	1.00	4.60	273.0	15.0	293.2	2.0	0	0.00	70.	1004.	2	NAD-SFC	NoSubs
7	7	12	193	23	-34.5	0.325	-9.000	-9.000	-999.	451.	89.3	0.2160	0.52	1.00	3.60	292.0	15.0	292.2	2.0	0	0.00	74.	1004.	2	NAD-SFC	NoSubs
7	7	12	193	24	-25.8	0.252	-9.000	-9.000	-999.	305.	55.2	0.2930	0.52	1.00	2.60	335.0	15.0	291.9	2.0	0	0.00	75.	1004.	2	NAD-SFC	NoSubs
7	7	13	194	1	-32.2	0.303	-9.000	-9.000	-999.	400.	77.4	0.2930	0.52	1.00	3.10	349.0	15.0	291.8	2.0	0	0.00	76.	1005.	2	NAD-SFC	NoSubs
7	7	13	194	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	291.4	2.0	0	0.00	79.	1005.	2	NAD-SFC	NoSubs
7	7	13	194	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	291.0	2.0	0	0.00	82.	1005.	2	NAD-SFC	NoSubs
7	7	13	194	4	-1.7	0.084	-9.000	-9.000	-999.	59.	32.0	0.2940	0.52	1.00	0.50	6.0	15.0	290.5	2.0	0	0.00	84.	1005.	2	NAD-SFC	NoSubs
7	7	13	194	5	-1.7	0.084	-9.000	-9.000	-999.	59.	32.1	0.2940	0.52	1.00	0.50	29.0	15.0	289.9	2.0	0	0.00	87.	1005.	2	NAD-SFC	NoSubs
7	7	13	194	6	-0.9	0.064	-9.000	-9.000	-999.	38.	26.1	0.2470	0.52	0.50	0.50	38.0	15.0	289.8	2.0	0	0.00	89.	1006.	2	NAD-SFC	NoSubs
7	7	13	194	7	33.5	0.150	0.596	0.010	227.	140.	-9.1	0.2940	0.52	0.29	1.00	20.0	15.0	290.8	2.0	0	0.00	79.	1006.	2	NAD-SFC	NoSubs
7	7	13	194	8	79.4	-9.000	-9.000	-9.000	328.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	292.4	2.0	0	0.00	70.	1006.	2	NAD-SFC	NoSubs
7	7	13	194	9	119.9	-9.000	-9.000	-9.000	449.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	294.1	2.0	0	0.00	62.	1006.	2	NAD-SFC	NoSubs
7	7	13	194	10	152.4	-9.000	-9.000	-9.000	576.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.0	2.0	0	0.00	55.	1005.	2	NAD-SFC	NoSubs
7	7	13	194	11	175.3	-9.000	-9.000	-9.000	707.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.8	2.0	0	0.00	49.	1005.	2	NAD-SFC	NoSubs
7	7	13	194	12	187.2	-9.000	-9.000	-9.000	848.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.5	2.0	0	0.00	44.	1004.	2	NAD-SFC	NoSubs
7	7	13	194	13	188.3	0.121	1.721	0.014	970.	101.	-1.0	0.2720	0.52	0.19	0.50	322.0	15.0	300.8	2.0	0	0.00	39.	1003.	2	NAD-SFC	NoSubs
7	7	13	194	14	178.7	0.122	1.725	0.014	1028.	103.	-1.0	0.2930	0.52	0.19	0.50	342.0	15.0	301.8	2.0	0	0.00	37.	1003.	2	NAD-SFC	NoSubs
7	7	13	194	15	158.0	0.181	1.681	0.014	1077.	186.	-3.4	0.2930	0.52	0.19	1.00	347.0	15.0	302.4	2.0	0	0.00	36.	1002.	2	NAD-SFC	NoSubs
7	7	13	194	16	127.2	0.228	1.582	0.014	1114.	262.	-8.4	0.2930	0.52	0.20	1.50	357.0	15.0	302.8	2.0	0	0.00	35.	1002.	2	NAD-SFC	NoSubs
7	7	13	194	17	88.1	0.276	1.410	0.014	1138.	349.	-21.4	0.2940	0.52	0.22	2.10	14.0	15.0	302.8	2.0	0	0.00	36.	1002.	2	NAD-SFC	NoSubs
7	7	13	194	18	42.9	0.259	1.113	0.014	1150.	316.	-36.0	0.2940	0.52	0.28	2.10	17.0	15.0	302.4	2.0	0	0.00	44.	1002.	2	NAD-SFC	NoSubs
7	7	13	194	19	-1.8	0.203	-9.000	-9.000	-999.	220.	405.0	0.2470	0.52	0.46	2.10	32.0	15.0	301.6	2.0	0	0.00	46.	1002.	2	NAD-SFC	NoSubs
7	7	13	194	20	-8.2	0.140	-9.000	-9.000	-999.	127.	30.0	0.2940	0.52	1.00	1.50	20.0	15.0	300.2	2.0	0	0.00	50.	1002.	2	NAD-SFC	NoSubs
7	7	13	194	21	-1.6	0.083	-9.000	-9.000	-999.	58.	31.7	0.2930	0.52	1.00	0.50	338.0	15.0	298.9	2.0	0	0.00	54.	1002.	2	NAD-SFC	NoSubs
7	7	13	194	22	-28.2	0.278	-9.000	-9.000	-999.	352.	68.3	0.2160	0.52	1.00	3.10	279.0	15.0	297.2	2.0	0	0.00	61.	1003.	3	NAD-SFC	NoSubs
7	7	13	194	23	-33.2	0.325	-9.000	-9.000	-999.	446.	92.8	0.2160	0.52	1.00	3.60	277.0	15.0	295.2	2.0	0	0.00	71.	1003.	3	NAD-SFC	NoSubs
7	7	13	194	24	-33.3	0.325	-9.000	-9.000	-999.	446.	92.5	0.2160	0.52	1.00	3.60	288.0	15.0	294.5	2.0	0	0.00	75.	1003.	3	NAD-SFC	NoSubs
7	7	14	195	1	-36.5	0.347	-9.000	-9.000	-999.	490.	102.2	0.2720	0.52	1.00	3.60	318.0	15.0	294.0	2.0	0	0.00	78.	1003.	2	NAD-SFC	NoSubs
7	7	14	195	2	-32.0	0.303	-9.000	-9.000	-999.	401.	77.9	0.2930	0.52	1.00	3.10	353.0	15.0	293.4	2.0	0	0.00	82.	1004.	2	NAD-SFC	NoSubs
7	7	14	195	3	-25.8	0.252	-9.000	-9.000	-999.	304.	55.3	0.2940	0.52	1.00	2.60	24.0	15.0	292.8	2.0	0	0.00	85.	1004.	2	NAD-SFC	NoSubs
7	7	14	195	4	-23.8	0.239	-9.000	-9.000	-999.	281.	51.6	0.2470	0.52	1.00	2.60	31.0	15.0	292.1	2.0	0	0.00	88.	1004.	2	NAD-SFC	NoSubs
7	7	14	195	5	-16.6	0.200	-9.000	-9.000	-999.	215.	43.1	0.2940	0.52	1.00	2.10	18.0	15.0	291.5	2.0	0	0.00	91.	1004.	2	NAD-SFC	NoSubs
7	7	14	195	6	-6.1	0.143	-9.000	-9.000	-999.	130.	42.3	0.2940	0.52	0.50	1.50	23.0	15.0	291.2	2.0	0	0.00	93.	1005.	2	NAD-SFC	NoSubs
7	7	14	195	7	33.5	0.198	0.562	0.009	189.	212.	-20.8	0.2940	0.52	0.29	1.50	12.0	15.0	292.2	2.0	0	0.00	84.	1005.	2	NAD-SFC	NoSubs
7	7	14	195	8	79.6	-9.000	-9.000	-9.000	299.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	294.1	2.0	0	0.00	76.	1005.	2	NAD-SFC	NoSubs
7	7	14	195	9	120.2	-9.000	-9.000	-9.000	428.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	295.9	2.0	0	0.00	68.	1004.	2	NAD-SFC	NoSubs
7	7	14	195	10	152.8	-9.000	-9.000	-9.000	617.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.8	2.0	0	0.00	60.	1003.	2	NAD-SFC	NoSubs
7	7	14	195	11	175.9	-9.000	-9.000	-9.000	804.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.6	2.0	0	0.00	54.	1003.	2	NAD-SFC	NoSubs
7	7	14	195	12	187.8	-9.000	-9.000	-9.000	972.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.2	2.0	0	0.00	48.	1002.	2	NAD-SFC	NoSubs
7	7	14	195	13	189.0	-9.000	-9.000	-9.000	1036.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.6	2.0	0	0.00	43.	1001.	2	NAD-SFC	NoSubs
7	7	14	195	14	179.6	-9.000	-9.000	-9.000	1094.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.6	2.0	0	0.00	41.	1001.	2	NAD-SFC	NoSubs
7	7	14	195	15	158.8	0.120	1.719	0.014	1143.	100.	-1.0	0.2930	0.52	0.19	0.50	334.0	15.0	304.2	2.0	0	0.00	39.	1000.	2	NAD-SFC	NoSubs
7	7	14	195	16	128.4	0.229	1.620	0.014	1182.	263.	-8.3	0.2940	0.52	0.20	1.50	6.0	15.0	305.2	2.0	0	0.00	39.	999.	2	NAD-SFC	NoSubs
7	7	14	195	17	89.3	0.277	1.446	0.015	1207.	350.	-21.2	0.2940	0.52	0.22	2.10	18.0	15.0	305.2	2.0	0	0.00	40.	999.	2	NAD-SFC	NoSubs
7	7	14	195	18	43.9	0.259	1.145	0.015	1219.	317.	-35.4	0.2940	0.52	0.28	2.10	27.0	15.0	304.8	2.0	0	0.00	48.	999.	2	NAD-SFC	NoSubs
7	7	14	195	19	-0.4	0.271	-9.000	-9.000	-999.	338.	4569.7	0.2940	0.52	0.47	2.60	25.0	15.0	303.9	2.0	0	0.00	51.	1000.	2	NAD-SFC	NoSubs
7	7	14	195	20	-8.0	0.140	-9.000	-9.000	-999.	136.	30.5	0.2930	0.52	1.00	1.50	351.0	15.0	302.8	2.0	0	0.00	53.	1000.	3	NAD-SFC	NoSubs
7	7	14	195	21	-42.0	0.420	-9.000	-9.000	-999.	654.	157.5	0.2160	0.52	1.00	4.60	285.0	15.0	300.5	2.0	0	0.00	60.	1000.	3	NAD-SFC	NoSubs
7	7	14	195	22	-44.9	0.443	-9.000	-9.000	-999.	708.	172.9	0.1750	0.52	1.00	5.10	266.0	15.0	296.8	2.0	0	0.00	70.	1000.	3	NAD-SFC	NoSubs
7	7	14	195	23	-42.8	0.420	-9.000	-9.000	-999.	654.	154.7	0.2160	0.52	1.00	4.60	276.0	15.0	295.4	2.0	0	0.00	72.	1001.	3	NAD-SFC	NoSubs
7	7	14	195	24	-28.4	0.278	-9.000	-9.000	-999.	366.	67.8	0.2160	0.52	1.00	3.10	280.0	15.0	295.0	2.0	0	0.00	74.	1001.	3	NAD-SFC	NoSubs
7	7	15	196	1	-30.3	0.297	-9.000	-9.000	-999.	388.	77.1	0.2720	0.52	1.00	3.10	300.0	15.0	295.1	2.0	0	0.00	73.	1001.	3	NAD-SFC	NoSubs
7	7	15	196	2	-25.3	0.252	-9.000	-9.000	-999.	304.	56.4	0.2930	0.52	1.00	2.60	334.0	15.0	295.2	2.0	0	0.00	74.	1001.	3	NAD-SFC	NoSubs
7	7	15	196	3	-8.1	0.140	-9.000	-9.000	-999.	132.	30.1	0.2930	0.52	1.00	1.50	358.0	15.0	294.9	2.0	0	0.00	77.	1002.	3	NAD-SFC	NoSubs
7	7	15	196	4	-8.1	0.140	-9.000	-9.000	-999.	126.	30.1	0.2940	0.52	1.00	1.50	28.0	15.0	294.4	2.0	0	0.00	80.	1002.	3	NAD-SFC	NoSubs
7	7	15	196	5	-3.7	0.098	-9.000	-9.000	-999.	74.	22.9	0.2470	0.52	1.00	1.00	34.0	15.0	293.9	2.0	0	0.00	82.	1002.	3	NAD-SFC	NoSubs
7	7	15	196	6	-2.5	0.093	-9.000	-9.000	-999.	68.	29.3	0.2940	0.52	0.51	1.00	8.0	15.0	293.6	2.0	0	0.00	83.	1003.	3	NAD-SFC	NoSubs
7	7	15	196	7	35.1	0.199	0.616	0.010	238.	213.	-20.2	0.2940	0.52	0.29	1.50	14.0	15.0	294.5	2.0	0	0.00	74.	1003.	3	NAD-SFC	NoSubs
7	7	15	196	8	80.8	-9.000	-9.000	-9.000	320.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	296.2	2.0	0	0.00	67.	1003.	3	NAD-SFC	NoSubs
7	7	15	196	9	120.6	-9.000	-9.000	-9.000	432.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	297.8	2.0	0	0.00	61.	1002.	2	NAD-SFC	NoSubs
7	7	15	196	10	153.3	-9.000	-9.000	-9.000	595.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.4	2.0	0	0.00	56.	1002.	2	NAD-SFC	NoSubs
7	7	15	196	11	176.4	-9.000	-9.000	-9.000	787.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.1	2.0	0	0.00	51.	1001.	2	NAD-SFC	NoSubs
7	7	15	196	12	188.2	-9.000	-9.000	-9.000	974.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.4	2.0	0	0.00	47.	1000.	2	NAD-SFC	NoSubs
7	7	15	196	13	189.3	-9.000	-9.000	-9.000	1074.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.5	2.0	0	0.00	44.	1000.	2	NAD-SFC	NoSubs
7	7	15	196	14	179.9	-9.000	-9.000	-9.000	1161.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	304.4	2.0	0	0.00	42.	999.	2	NAD-SFC	NoSubs
7	7	15	196	15	159.1	0.182	1.765	0.012	1233.	186.	-3.4	0.2940	0.52	0.19	1.00	18.0	15.0	305.0	2.0	0	0.00	40.	999.	2	NAD-SFC	NoSubs
7	7	15	196	16	128.3	0.287	1.667	0.013	1289.	369.	-16.4	0.2940	0.52	0.20	2.10	18.0	15.0	305.2	2.0	0	0.00	40.	998.	2	NAD-SFC	NoSubs

7	7	15	196	17	89.1	0.323	1.491	0.013	1325.	440.	-33.6	0.2940	0.52	0.22	2.60	18.0	15.0	305.2	2.0	0	0.00	42.	998.	2	NAD-SFC	NoSubs
7	7	15	196	18	43.7	0.259	1.180	0.013	1341.	318.	-35.5	0.2940	0.52	0.28	2.10	21.0	15.0	304.8	2.0	0	0.00	50.	998.	2	NAD-SFC	NoSubs
7	7	15	196	19	-0.7	0.270	-9.000	-9.000	-999.	336.	2477.5	0.2940	0.52	0.47	2.60	22.0	15.0	304.0	2.0	0	0.00	52.	998.	2	NAD-SFC	NoSubs
7	7	15	196	20	-16.0	0.200	-9.000	-9.000	-999.	217.	44.8	0.2940	0.52	1.00	2.10	4.0	15.0	302.8	2.0	0	0.00	55.	999.	3	NAD-SFC	NoSubs
7	7	15	196	21	-32.4	0.326	-9.000	-9.000	-999.	446.	94.8	0.2160	0.52	1.00	3.60	279.0	15.0	301.5	2.0	0	0.00	58.	999.	3	NAD-SFC	NoSubs
7	7	15	196	22	-47.2	0.468	-9.000	-9.000	-999.	768.	193.3	0.2160	0.52	1.00	5.10	273.0	15.0	297.8	2.0	0	0.00	69.	999.	3	NAD-SFC	NoSubs
7	7	15	196	23	-42.6	0.420	-9.000	-9.000	-999.	656.	155.0	0.2160	0.52	1.00	4.60	272.0	15.0	295.9	2.0	0	0.00	72.	999.	3	NAD-SFC	NoSubs
7	7	15	196	24	-33.1	0.325	-9.000	-9.000	-999.	452.	92.9	0.2160	0.52	1.00	3.60	286.0	15.0	295.5	2.0	0	0.00	74.	1000.	3	NAD-SFC	NoSubs
7	7	16	197	1	-30.2	0.297	-9.000	-9.000	-999.	388.	77.2	0.2720	0.52	1.00	3.10	316.0	15.0	295.4	2.0	0	0.00	75.	1000.	3	NAD-SFC	NoSubs
7	7	16	197	2	-30.9	0.303	-9.000	-9.000	-999.	401.	80.5	0.2930	0.52	1.00	3.10	350.0	15.0	295.0	2.0	0	0.00	77.	1001.	3	NAD-SFC	NoSubs
7	7	16	197	3	-31.0	0.304	-9.000	-9.000	-999.	401.	80.5	0.2940	0.52	1.00	3.10	10.0	15.0	294.4	2.0	0	0.00	81.	1001.	3	NAD-SFC	NoSubs
7	7	16	197	4	-25.4	0.252	-9.000	-9.000	-999.	305.	56.3	0.2940	0.52	1.00	2.60	6.0	15.0	293.8	2.0	0	0.00	84.	1001.	3	NAD-SFC	NoSubs
7	7	16	197	5	-16.3	0.200	-9.000	-9.000	-999.	216.	43.9	0.2940	0.52	1.00	2.10	14.0	15.0	293.0	2.0	0	0.00	86.	1001.	3	NAD-SFC	NoSubs
7	7	16	197	6	-10.6	0.205	-9.000	-9.000	-999.	223.	73.1	0.2940	0.52	0.51	2.10	10.0	15.0	292.6	2.0	0	0.00	86.	1002.	3	NAD-SFC	NoSubs
7	7	16	197	7	34.2	0.254	0.610	0.009	237.	307.	-42.9	0.2940	0.52	0.29	2.10	15.0	15.0	293.2	2.0	0	0.00	77.	1002.	3	NAD-SFC	NoSubs
7	7	16	197	8	80.0	0.167	0.895	0.009	320.	166.	-5.2	0.2930	0.52	0.22	1.00	350.0	15.0	295.0	2.0	0	0.00	69.	1002.	3	NAD-SFC	NoSubs
7	7	16	197	9	119.9	0.115	1.133	0.008	434.	95.	-1.1	0.2930	0.52	0.20	0.50	334.0	15.0	296.6	2.0	0	0.00	63.	1001.	2	NAD-SFC	NoSubs
7	7	16	197	10	152.5	0.118	1.360	0.007	589.	97.	-1.0	0.2720	0.52	0.19	0.50	317.0	15.0	298.2	2.0	0	0.00	58.	1001.	2	NAD-SFC	NoSubs
7	7	16	197	11	175.5	0.122	1.540	0.008	743.	102.	-1.0	0.2930	0.52	0.19	0.50	334.0	15.0	299.8	2.0	0	0.00	55.	1000.	2	NAD-SFC	NoSubs
7	7	16	197	12	187.5	0.186	1.672	0.009	890.	192.	-3.0	0.2930	0.52	0.19	1.00	346.0	15.0	301.2	2.0	0	0.00	51.	999.	2	NAD-SFC	NoSubs
7	7	16	197	13	188.8	0.186	1.748	0.010	1009.	192.	-3.0	0.2930	0.52	0.19	1.00	349.0	15.0	302.6	2.0	0	0.00	48.	998.	2	NAD-SFC	NoSubs
7	7	16	197	14	179.2	0.297	1.767	0.011	1098.	388.	-13.0	0.2940	0.52	0.19	2.10	4.0	15.0	303.4	2.0	0	0.00	46.	998.	2	NAD-SFC	NoSubs
7	7	16	197	15	158.4	0.341	1.733	0.012	1171.	477.	-22.2	0.2940	0.52	0.19	2.60	4.0	15.0	303.9	2.0	0	0.00	45.	997.	2	NAD-SFC	NoSubs
7	7	16	197	16	127.5	-9.000	-9.000	-9.000	1226.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	304.0	2.0	0	0.00	45.	997.	2	NAD-SFC	NoSubs
7	7	16	197	17	88.1	0.414	1.461	0.013	1261.	640.	-71.8	0.2940	0.52	0.22	3.60	13.0	15.0	303.8	2.0	0	0.00	51.	997.	2	NAD-SFC	NoSubs
7	7	16	197	18	43.8	-9.000	-9.000	-9.000	1278.	-999.	-99999.0	0.2235	0.52	0.28	0.00	0.0	15.0	303.2	2.0	0	0.00	59.	997.	3	NAD-SFC	NoSubs
7	7	16	197	19	-0.8	0.427	-9.000	-9.000	-999.	670.	8361.3	0.2930	0.52	0.47	4.10	338.0	15.0	301.6	2.0	0	0.00	63.	998.	3	NAD-SFC	NoSubs
7	7	16	197	20	-39.8	0.397	-9.000	-9.000	-999.	602.	140.4	0.2720	0.52	1.00	4.10	306.0	15.0	299.6	2.0	0	0.00	67.	998.	3	NAD-SFC	NoSubs
7	7	16	197	21	-37.6	0.373	-9.000	-9.000	-999.	547.	122.7	0.2160	0.52	1.00	4.10	286.0	15.0	297.8	2.0	0	0.00	71.	999.	3	NAD-SFC	NoSubs
7	7	16	197	22	-33.0	0.326	-9.000	-9.000	-999.	447.	93.1	0.2160	0.52	1.00	3.60	289.0	15.0	296.1	2.0	0	0.00	73.	1000.	3	NAD-SFC	NoSubs
7	7	16	197	23	-30.2	0.297	-9.000	-9.000	-999.	388.	77.0	0.2720	0.52	1.00	3.10	305.0	15.0	294.9	2.0	0	0.00	74.	1000.	3	NAD-SFC	NoSubs
7	7	16	197	24	-30.3	0.297	-9.000	-9.000	-999.	388.	76.7	0.2720	0.52	1.00	3.10	317.0	15.0	293.9	2.0	0	0.00	75.	1000.	3	NAD-SFC	NoSubs
7	7	17	198	1	-24.4	0.246	-9.000	-9.000	-999.	294.	54.5	0.2720	0.52	1.00	2.60	326.0	15.0	293.2	2.0	0	0.00	77.	1000.	3	NAD-SFC	NoSubs
7	7	17	198	2	-25.4	0.252	-9.000	-9.000	-999.	303.	56.1	0.2930	0.52	1.00	2.60	338.0	15.0	292.5	2.0	0	0.00	78.	1001.	3	NAD-SFC	NoSubs
7	7	17	198	3	-16.3	0.200	-9.000	-9.000	-999.	215.	43.8	0.2930	0.52	1.00	2.10	350.0	15.0	292.0	2.0	0	0.00	78.	1001.	3	NAD-SFC	NoSubs
7	7	17	198	4	-16.3	0.200	-9.000	-9.000	-999.	215.	43.7	0.2930	0.52	1.00	2.10	359.0	15.0	291.5	2.0	0	0.00	79.	1001.	3	NAD-SFC	NoSubs
7	7	17	198	5	-8.2	0.140	-9.000	-9.000	-999.	126.	29.9	0.2940	0.52	1.00	1.50	11.0	15.0	290.9	2.0	0	0.00	81.	1001.	3	NAD-SFC	NoSubs
7	7	17	198	6	-11.4	0.205	-9.000	-9.000	-999.	222.	67.1	0.2940	0.52	0.51	2.10	13.0	15.0	290.6	2.0	0	0.00	80.	1002.	3	NAD-SFC	NoSubs
7	7	17	198	7	33.2	0.198	0.646	0.008	290.	212.	-20.9	0.2940	0.52	0.29	1.50	15.0	15.0	291.2	2.0	0	0.00	72.	1002.	3	NAD-SFC	NoSubs
7	7	17	198	8	78.8	-9.000	-9.000	-9.000	424.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	292.5	2.0	0	0.00	66.	1002.	3	NAD-SFC	NoSubs
7	7	17	198	9	119.1	-9.000	-9.000	-9.000	551.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	294.2	2.0	0	0.00	61.	1002.	3	NAD-SFC	NoSubs
7	7	17	198	10	151.5	-9.000	-9.000	-9.000	677.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.9	2.0	0	0.00	57.	1001.	3	NAD-SFC	NoSubs
7	7	17	198	11	174.3	-9.000	-9.000	-9.000	784.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.8	2.0	0	0.00	52.	1001.	3	NAD-SFC	NoSubs
7	7	17	198	12	186.5	-9.000	-9.000	-9.000	885.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.4	2.0	0	0.00	48.	1000.	2	NAD-SFC	NoSubs
7	7	17	198	13	187.7	-9.000	-9.000	-9.000	975.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.8	2.0	0	0.00	44.	999.	2	NAD-SFC	NoSubs
7	7	17	198	14	178.2	-9.000	-9.000	-9.000	1039.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.8	2.0	0	0.00	41.	998.	2	NAD-SFC	NoSubs
7	7	17	198	15	157.5	0.182	1.689	0.012	1092.	186.	-3.4	0.2940	0.52	0.19	1.00	6.0	15.0	302.5	2.0	0	0.00	38.	998.	2	NAD-SFC	NoSubs
7	7	17	198	16	126.6	0.229	1.591	0.012	1132.	262.	-8.4	0.2940	0.52	0.20	1.50	7.0	15.0	302.8	2.0	0	0.00	37.	997.	2	NAD-SFC	NoSubs
7	7	17	198	17	87.4	0.322	1.417	0.012	1159.	439.	-34.1	0.2940	0.52	0.22	2.60	16.0	15.0	302.8	2.0	0	0.00	38.	997.	2	NAD-SFC	NoSubs
7	7	17	198	18	41.9	0.304	1.113	0.012	1171.	403.	-59.8	0.2940	0.52	0.28	2.60	16.0	15.0	302.1	2.0	0	0.00	48.	997.	2	NAD-SFC	NoSubs
7	7	17	198	19	-2.0	0.320	-9.000	-9.000	-999.	434.	1487.5	0.2930	0.52	0.47	3.10	355.0	15.0	301.1	2.0	0	0.00	51.	998.	3	NAD-SFC	NoSubs
7	7	17	198	20	-42.2	0.420	-9.000	-9.000	-999.	654.	156.7	0.2160	0.52	1.00	4.60	292.0	15.0	299.2	2.0	0	0.00	57.	999.	3	NAD-SFC	NoSubs
7	7	17	198	21	-53.4	0.525	-9.000	-9.000	-999.	913.	241.8	0.2160	0.52	1.00	5.70	272.0	15.0	295.4	2.0	0	0.00	72.	999.	3	NAD-SFC	NoSubs
7	7	17	198	22	-47.9	0.468	-9.000	-9.000	-999.	771.	190.5	0.2160	0.52	1.00	5.10	270.0	15.0	293.6	2.0	0	0.00	76.	1000.	3	NAD-SFC	NoSubs
7	7	17	198	23	-36.3	0.353	-9.000	-9.000	-999.	513.	108.2	0.1750	0.52	1.00	4.10	268.0	15.0	292.8	2.0	0	0.00	79.	1000.	3	NAD-SFC	NoSubs
7	7	17	198	24	-38.4	0.373	-9.000	-9.000	-999.	546.	120.2	0.2160	0.52	1.00	4.10	283.0	15.0	291.9	2.0	0	0.00	82.	1000.	3	NAD-SFC	NoSubs
7	7	18	199	1	-30.6	0.297	-9.000	-9.000	-999.	391.	76.1	0.2720	0.52	1.00	3.10	303.0	15.0	291.5	2.0	0	0.00	83.	1000.	3	NAD-SFC	NoSubs
7	7	18	199	2	-24.5	0.246	-9.000	-9.000	-999.	294.	54.3	0.2720	0.52	1.00	2.60	312.0	15.0	291.2	2.0	0	0.00	83.	1001.	3	NAD-SFC	NoSubs
7	7	18	199	3	-16.3	0.200	-9.000	-9.000	-999.	215.	43.7	0.2930	0.52	1.00	2.10	332.0	15.0	291.0	2.0	0	0.00	84.	1001.	3	NAD-SFC	NoSubs
7	7	18	199	4	-8.2	0.140	-9.000	-9.000	-999.	126.	29.9	0.2930	0.52	1.00	1.50	331.0	15.0	290.8	2.0	0	0.00	84.	1001.	3	NAD-SFC	NoSubs
7	7	18	199	5	-8.2	0.140	-9.000	-9.000	-999.	125.	29.8	0.2930	0.52	1.00	1.50	344.0	15.0	290.2	2.0	0	0.00	85.	1002.	3	NAD-SFC	NoSubs
7	7	18	199	6	-6.0	0.139	-9.000	-9.000	-999.	125.	40.2	0.2720	0.52	0.52	1.50	327.0	15.0	290.4	2.0	0	0.00	84.	1002.	3	NAD-SFC	NoSubs
7	7	18	199	7	32.9	0.237	0.540	0.007	171.	277.	-36.2	0.2160	0.52	0.29	2.10	296.0	15.0	291.8	2.0	0	0.00	77.	1003.	3	NAD-SFC	NoSubs
7	7	18	199	8	78.6	-9.000	-9.000	-9.000	359.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	293.2	2.0	0	0.00	70.	1003.	3	NAD-SFC	NoSubs
7	7	18	199	9	119.0	-9.000	-9.000	-9.000	527.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	294.8	2.0	0	0.00	66.	1003.	3	NAD-SFC	NoSubs
7	7	18	199	10	151.4	-9.000	-9.000	-9.000	680.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.4	2.0	0	0.00	61.	1002.	3	NAD-SFC	NoSubs
7	7	18	199	11	174.1	-9.000	-9.000	-9.000	815.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.8	2.0	0	0.00	56.	1002.	3	NAD-SFC	NoSubs
7	7	18	199	12	186.0	-9.000	-9.000	-9.000	939.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.2	2.0	0	0.00	52.	1001.	3	NAD-SFC	NoSubs
7	7	18	199	13	187.1	-9.000	-9.000	-9.000	1025.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.4	2.0	0	0.00	48.	1000.	3	NAD-SFC	NoSubs
7	7	18	199	14	177.8	0.122	1.757	0.011	1090.	102.	-1.0	0.2930	0.52	0.19	0.50	345.0	15.0	301.4	2.0	0	0.00	44.	1000.	3	NAD-SFC	NoSubs
7	7	18	199	15	157.1	0.234	1.715	0.011	1146.	272.	-7.3	0.2930	0.52	0.19	1.50	355.0	15.0	302.0	2.0	0	0.00	43.	999.	3	NAD-SFC	NoSubs
7	7	18	199	16	126.5	0.333	1.615	0.011	1188.	461.	-26.0	0.2940	0.52	0.20	2.60	3.0	15.0	302.1	2.0	0	0.00	43.	999.	3	NAD-SFC	NoSubs
7	7	18	199	17	87.4	-9.000	-9.000	-9.000	1216.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	301.9	2.0	0	0.00	46.	998.	3	NAD-SFC	NoSubs
7	7	18	199	18	42.4	0.305	1.134	0.011	1228.	403.	-59.4	0.2940	0.52	0.28	2.60	14.0	15.0	301.4	2.0	0	0.00	57.	999.	3	NAD-SFC	NoSubs
7	7	18	199	19	-4.2	0.371	-9.000	-9.000	-999.	541.	1074.0	0.2940	0.52	0.47	3.60	14.0	15.0	300.2	2.0	0	0.00	62.	999.	3	NAD-SFC	NoSubs
7	7	18	199	20	-35.7	0.355	-9.000	-9.000	-999.	508.	111.7	0.2940	0.52	1.00	3.60	4.0	15.0	298.8	2.0	0	0.00	66.	999.	3	NAD-SFC	NoSubs
7	7	18	199	21	-41.0	0.406	-9.000	-9.000	-999.	621.	145.4	0.2930	0.52	1.00	4.10	341.0	15.0	297.2	2.0	0	0.00	71.	999.	3	NAD-SFC	NoSubs

7	7	18	199	22	-34.0	0.347	-9.000	-9.000	-999.	493.	109.8	0.2720	0.52	1.00	3.60	325.0	15.0	295.8	2.0	0	0.00	76.	1000.	4	NAD-SFC NoSubs
7	7	18	199	23	-34.1	0.347	-9.000	-9.000	-999.	491.	109.5	0.2720	0.52	1.00	3.60	317.0	15.0	294.9	2.0	0	0.00	79.	1000.	4	NAD-SFC NoSubs
7	7	18	199	24	-34.2	0.347	-9.000	-9.000	-999.	491.	109.0	0.2720	0.52	1.00	3.60	317.0	15.0	293.8	2.0	0	0.00	82.	1000.	4	NAD-SFC NoSubs
7	7	19	200	1	-35.1	0.355	-9.000	-9.000	-999.	507.	113.5	0.2930	0.52	1.00	3.60	334.0	15.0	292.8	2.0	0	0.00	83.	1001.	4	NAD-SFC NoSubs
7	7	19	200	2	-25.0	0.252	-9.000	-9.000	-999.	309.	57.2	0.2930	0.52	1.00	2.60	335.0	15.0	292.0	2.0	0	0.00	83.	1001.	4	NAD-SFC NoSubs
7	7	19	200	3	-15.5	0.196	-9.000	-9.000	-999.	209.	43.3	0.2720	0.52	1.00	2.10	328.0	15.0	291.5	2.0	0	0.00	83.	1001.	4	NAD-SFC NoSubs
7	7	19	200	4	-7.7	0.137	-9.000	-9.000	-999.	122.	29.6	0.2720	0.52	1.00	1.50	317.0	15.0	291.1	2.0	0	0.00	83.	1001.	4	NAD-SFC NoSubs
7	7	19	200	5	-3.8	0.100	-9.000	-9.000	-999.	76.	23.3	0.2720	0.52	1.00	1.00	325.0	15.0	290.6	2.0	0	0.00	84.	1001.	3	NAD-SFC NoSubs
7	7	19	200	6	-2.8	0.094	-9.000	-9.000	-999.	69.	26.5	0.2930	0.52	0.52	1.00	343.0	15.0	290.2	2.0	0	0.00	84.	1002.	3	NAD-SFC NoSubs
7	7	19	200	7	32.3	0.253	0.600	0.008	239.	305.	-44.7	0.2930	0.52	0.29	2.10	352.0	15.0	291.1	2.0	0	0.00	77.	1002.	3	NAD-SFC NoSubs
7	7	19	200	8	78.0	0.109	0.914	0.007	349.	103.	-1.5	0.2930	0.52	0.22	0.50	333.0	15.0	292.5	2.0	0	0.00	72.	1002.	3	NAD-SFC NoSubs
7	7	19	200	9	118.5	-9.000	-9.000	-9.000	496.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	294.2	2.0	0	0.00	66.	1002.	3	NAD-SFC NoSubs
7	7	19	200	10	151.0	-9.000	-9.000	-9.000	649.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.9	2.0	0	0.00	59.	1001.	3	NAD-SFC NoSubs
7	7	19	200	11	173.9	-9.000	-9.000	-9.000	807.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.4	2.0	0	0.00	54.	1001.	2	NAD-SFC NoSubs
7	7	19	200	12	185.9	-9.000	-9.000	-9.000	950.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.8	2.0	0	0.00	51.	1000.	2	NAD-SFC NoSubs
7	7	19	200	13	186.9	0.121	1.771	0.008	1061.	101.	-1.0	0.2720	0.52	0.19	0.50	306.0	15.0	299.8	2.0	0	0.00	48.	999.	2	NAD-SFC NoSubs
7	7	19	200	14	177.4	0.122	1.790	0.008	1155.	102.	-1.0	0.2930	0.52	0.19	0.50	340.0	15.0	300.8	2.0	0	0.00	45.	999.	2	NAD-SFC NoSubs
7	7	19	200	15	156.6	0.234	1.756	0.008	1232.	272.	-7.3	0.2930	0.52	0.19	1.50	355.0	15.0	301.4	2.0	0	0.00	43.	998.	2	NAD-SFC NoSubs
7	7	19	200	16	125.7	-9.000	-9.000	-9.000	1289.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	301.5	2.0	0	0.00	48.	998.	2	NAD-SFC NoSubs
7	7	19	200	17	86.3	-9.000	-9.000	-9.000	1328.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	301.5	2.0	0	0.00	48.	997.	2	NAD-SFC NoSubs
7	7	19	200	18	40.8	0.304	1.155	0.009	1344.	402.	-61.0	0.2940	0.52	0.28	2.60	11.0	15.0	301.1	2.0	0	0.00	56.	997.	2	NAD-SFC NoSubs
7	7	19	200	19	-8.6	0.366	-9.000	-9.000	-999.	530.	502.9	0.2930	0.52	0.48	3.60	358.0	15.0	300.0	2.0	0	0.00	59.	998.	2	NAD-SFC NoSubs
7	7	19	200	20	-35.7	0.355	-9.000	-9.000	-999.	507.	111.3	0.2930	0.52	1.00	3.60	347.0	15.0	298.2	2.0	0	0.00	63.	998.	3	NAD-SFC NoSubs
7	7	19	200	21	-35.8	0.355	-9.000	-9.000	-999.	507.	110.8	0.2930	0.52	1.00	3.60	330.0	15.0	296.9	2.0	0	0.00	67.	998.	3	NAD-SFC NoSubs
7	7	19	200	22	-33.9	0.347	-9.000	-9.000	-999.	491.	109.8	0.2720	0.52	1.00	3.60	316.0	15.0	295.8	2.0	0	0.00	73.	998.	4	NAD-SFC NoSubs
7	7	19	200	23	-34.0	0.347	-9.000	-9.000	-999.	491.	109.4	0.2720	0.52	1.00	3.60	314.0	15.0	294.8	2.0	0	0.00	77.	998.	4	NAD-SFC NoSubs
7	7	19	200	24	-29.2	0.297	-9.000	-9.000	-999.	390.	79.8	0.2720	0.52	1.00	3.10	324.0	15.0	293.8	2.0	0	0.00	82.	999.	4	NAD-SFC NoSubs
7	7	20	201	1	-30.0	0.304	-9.000	-9.000	-999.	401.	83.0	0.2930	0.52	1.00	3.10	331.0	15.0	292.8	2.0	0	0.00	83.	1000.	4	NAD-SFC NoSubs
7	7	20	201	2	-25.0	0.252	-9.000	-9.000	-999.	305.	57.2	0.2930	0.52	1.00	2.60	348.0	15.0	292.2	2.0	0	0.00	84.	1000.	4	NAD-SFC NoSubs
7	7	20	201	3	-16.3	0.200	-9.000	-9.000	-999.	215.	43.7	0.2930	0.52	1.00	2.10	360.0	15.0	291.8	2.0	0	0.00	85.	1001.	3	NAD-SFC NoSubs
7	7	20	201	4	-8.2	0.140	-9.000	-9.000	-999.	126.	29.9	0.2940	0.52	1.00	1.50	12.0	15.0	291.1	2.0	0	0.00	86.	1001.	3	NAD-SFC NoSubs
7	7	20	201	5	-8.2	0.140	-9.000	-9.000	-999.	126.	29.9	0.2940	0.52	1.00	1.50	25.0	15.0	290.5	2.0	0	0.00	88.	1002.	3	NAD-SFC NoSubs
7	7	20	201	6	-2.8	0.094	-9.000	-9.000	-999.	70.	26.3	0.2940	0.52	0.53	1.00	20.0	15.0	290.2	2.0	0	0.00	89.	1002.	3	NAD-SFC NoSubs
7	7	20	201	7	31.9	-9.000	-9.000	-9.000	262.	-999.	-99999.0	0.2235	0.52	0.30	0.00	0.0	15.0	291.2	2.0	0	0.00	79.	1002.	3	NAD-SFC NoSubs
7	7	20	201	8	76.9	0.109	0.947	0.008	394.	86.	-1.5	0.2930	0.52	0.22	0.50	352.0	15.0	292.5	2.0	0	0.00	73.	1002.	2	NAD-SFC NoSubs
7	7	20	201	9	117.8	-9.000	-9.000	-9.000	533.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	294.1	2.0	0	0.00	67.	1002.	2	NAD-SFC NoSubs
7	7	20	201	10	150.6	-9.000	-9.000	-9.000	670.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.8	2.0	0	0.00	62.	1001.	2	NAD-SFC NoSubs
7	7	20	201	11	173.8	-9.000	-9.000	-9.000	792.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.6	2.0	0	0.00	56.	1001.	2	NAD-SFC NoSubs
7	7	20	201	12	185.9	-9.000	-9.000	-9.000	906.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.2	2.0	0	0.00	51.	1000.	2	NAD-SFC NoSubs
7	7	20	201	13	187.0	0.121	1.740	0.010	1007.	101.	-1.0	0.2720	0.52	0.19	0.50	328.0	15.0	300.2	2.0	0	0.00	48.	1000.	2	NAD-SFC NoSubs
7	7	20	201	14	177.5	0.184	1.758	0.010	1093.	190.	-3.1	0.2930	0.52	0.19	1.00	351.0	15.0	301.2	2.0	0	0.00	45.	999.	2	NAD-SFC NoSubs
7	7	20	201	15	156.7	-9.000	-9.000	-9.000	1163.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.9	2.0	0	0.00	43.	999.	2	NAD-SFC NoSubs
7	7	20	201	16	125.7	0.286	1.625	0.011	1217.	368.	-16.6	0.2940	0.52	0.20	2.10	12.0	15.0	302.1	2.0	0	0.00	43.	998.	2	NAD-SFC NoSubs
7	7	20	201	17	86.3	0.368	1.447	0.011	1252.	536.	-51.4	0.2940	0.52	0.22	3.10	7.0	15.0	302.0	2.0	0	0.00	45.	998.	2	NAD-SFC NoSubs
7	7	20	201	18	40.7	0.304	1.131	0.011	1267.	404.	-61.2	0.2940	0.52	0.28	2.60	14.0	15.0	301.5	2.0	0	0.00	54.	998.	2	NAD-SFC NoSubs
7	7	20	201	19	-7.5	0.313	-9.000	-9.000	-999.	420.	362.7	0.2940	0.52	0.48	3.10	13.0	15.0	300.6	2.0	0	0.00	56.	999.	2	NAD-SFC NoSubs
7	7	20	201	20	-31.2	0.304	-9.000	-9.000	-999.	401.	79.8	0.2940	0.52	1.00	3.10	4.0	15.0	299.5	2.0	0	0.00	59.	999.	2	NAD-SFC NoSubs
7	7	20	201	21	-25.1	0.252	-9.000	-9.000	-999.	305.	56.7	0.2930	0.52	1.00	2.60	345.0	15.0	298.4	2.0	0	0.00	62.	999.	3	NAD-SFC NoSubs
7	7	20	201	22	-30.7	0.303	-9.000	-9.000	-999.	401.	81.1	0.2930	0.52	1.00	3.10	331.0	15.0	297.2	2.0	0	0.00	67.	1000.	3	NAD-SFC NoSubs
7	7	20	201	23	-36.0	0.355	-9.000	-9.000	-999.	507.	110.4	0.2930	0.52	1.00	3.60	335.0	15.0	295.9	2.0	0	0.00	73.	1000.	3	NAD-SFC NoSubs
7	7	20	201	24	-36.2	0.355	-9.000	-9.000	-999.	507.	109.9	0.2930	0.52	1.00	3.60	334.0	15.0	294.8	2.0	0	0.00	78.	1000.	3	NAD-SFC NoSubs
7	7	21	202	1	-31.0	0.303	-9.000	-9.000	-999.	402.	80.2	0.2930	0.52	1.00	3.10	338.0	15.0	294.0	2.0	0	0.00	81.	1001.	3	NAD-SFC NoSubs
7	7	21	202	2	-31.1	0.303	-9.000	-9.000	-999.	401.	80.0	0.2930	0.52	1.00	3.10	347.0	15.0	293.2	2.0	0	0.00	83.	1001.	3	NAD-SFC NoSubs
7	7	21	202	3	-25.4	0.252	-9.000	-9.000	-999.	304.	56.1	0.2930	0.52	1.00	2.60	353.0	15.0	292.6	2.0	0	0.00	85.	1002.	3	NAD-SFC NoSubs
7	7	21	202	4	-16.3	0.200	-9.000	-9.000	-999.	215.	43.8	0.2930	0.52	1.00	2.10	352.0	15.0	292.0	2.0	0	0.00	87.	1002.	3	NAD-SFC NoSubs
7	7	21	202	5	-8.3	0.140	-9.000	-9.000	-999.	126.	29.5	0.2930	0.52	1.00	1.50	355.0	15.0	291.5	2.0	0	0.00	89.	1002.	2	NAD-SFC NoSubs
7	7	21	202	6	-3.0	0.095	-9.000	-9.000	-999.	70.	25.4	0.2930	0.52	0.53	1.00	344.0	15.0	291.2	2.0	0	0.00	90.	1003.	2	NAD-SFC NoSubs
7	7	21	202	7	30.7	0.197	0.491	0.008	138.	209.	-22.2	0.2940	0.52	0.30	1.50	3.0	15.0	292.5	2.0	0	0.00	80.	1004.	2	NAD-SFC NoSubs
7	7	21	202	8	77.2	-9.000	-9.000	-9.000	253.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	294.5	2.0	0	0.00	71.	1004.	2	NAD-SFC NoSubs
7	7	21	202	9	118.3	-9.000	-9.000	-9.000	391.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.5	2.0	0	0.00	63.	1003.	2	NAD-SFC NoSubs
7	7	21	202	10	151.4	-9.000	-9.000	-9.000	600.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.4	2.0	0	0.00	55.	1003.	2	NAD-SFC NoSubs
7	7	21	202	11	174.7	-9.000	-9.000	-9.000	869.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.2	2.0	0	0.00	50.	1003.	2	NAD-SFC NoSubs
7	7	21	202	12	186.8	-9.000	-9.000	-9.000	1018.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.8	2.0	0	0.00	45.	1002.	2	NAD-SFC NoSubs
7	7	21	202	13	188.1	0.121	1.790	0.012	1090.	101.	-1.0	0.2720	0.52	0.19	0.50	318.0	15.0	302.9	2.0	0	0.00	41.	1001.	2	NAD-SFC NoSubs
7	7	21	202	14	178.5	0.184	1.793	0.012	1154.	190.	-3.1	0.2930	0.52	0.19	1.00	345.0	15.0	303.8	2.0	0	0.00	39.	1001.	2	NAD-SFC NoSubs
7	7	21	202	15	157.6	0.234	1.747	0.013	1208.	272.	-7.3	0.2940	0.52	0.19	1.50	5.0	15.0	304.2	2.0	0	0.00	37.	1000.	2	NAD-SFC NoSubs
7	7	21	202	16	126.7	-9.000	-9.000	-9.000	1250.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	304.5	2.0	0	0.00	37.	1000.	2	NAD-SFC NoSubs
7	7	21	202	17	87.1	-9.000	-9.000	-9.000	1277.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	304.2	2.0	0	0.00	42.	1000.	2	NAD-SFC NoSubs
7	7	21	202	18	41.4	0.304	1.144	0.012	1289.	402.	-60.5	0.2940	0.52	0.28	2.60	11.0	15.0	303.8	2.0	0	0.00	49.	1000.	2	NAD-SFC NoSubs
7	7	21	202	19	-6.1	0.315	-9.000	-9.000	-999.	423.	455.2	0.2940	0.52	0.48	3.10	8.0	15.0	302.9	2.0	0	0.00	51.	1000.	2	NAD-SFC NoSubs
7	7	21	202	20	-25.0	0.252	-9.000	-9.000	-999.	305.	57.0	0.2930	0.52	1.00	2.60	359.0	15.0	301.6	2.0	0	0.00	53.	1001.	3	NAD-SFC NoSubs
7	7	21	202	21	-7.7	0.137	-9.000	-9.000	-999.	129.	29.5	0.2720	0.52	1.00	1.50	316.0	15.0	300.6	2.0	0	0.00	56.	1001.	3	NAD-SFC NoSubs
7	7	21	202	22	-28.0	0.278	-9.000	-9.000	-999.	352.	68.8	0.2160	0.52	1.00	3.10	275.0	15.0	299.2	2.0	0	0.00	61.	1002.	3	NAD-SFC NoSubs
7	7	21	202	23	-26.7	0.264	-9.000	-9.000	-999.	325.	61.3	0.1750	0.52	1.00	3.10	268.0	15.0	297.8	2.0	0	0.00	68.	1002.	3	NAD-SFC NoSubs
7	7	21	202	24	-28.2	0.278	-9.000	-9.000	-999.	352.	68.2	0.2160	0.52	1.00	3.10	277.0	15.0	296.9	2.0	0	0.00	71.	1002.	3	NAD-SFC NoSubs
7	7	22	203	1	-28.3	0.278	-9.000	-9.000	-999.	352.	68.0	0.2160	0.52	1.00	3.10	299.0	15.0	296.2	2.0	0	0.00	75.	1002.	3	NAD-SFC NoSubs
7	7	22	203	2	-35.3	0.347	-9.000	-9.000	-999.	490.	105.6	0.2720	0.52	1.00	3.60	319.0	15.0	295.8	2.0	0	0.00	79.	1002.	3	NAD-SFC NoSubs

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 7   7 22 203   3   -30.3   0.297  -9.000  -9.000  -999.   389.      77.0  0.2720   0.52   1.00   3.10  326.0   15.0  295.0   2.0    0   0.00   84.  1003.     3 NAD-SFC NoSubs
 7   7 22 203   4   -25.4   0.252  -9.000  -9.000  -999.   304.      56.2  0.2930   0.52   1.00   2.60  337.0   15.0  294.2   2.0    0   0.00   88.  1003.     3 NAD-SFC NoSubs
 7   7 22 203   5   -16.3   0.200  -9.000  -9.000  -999.   215.      43.9  0.2930   0.52   1.00   2.10  340.0   15.0  293.8   2.0    0   0.00   90.  1003.     3 NAD-SFC NoSubs
 7   7 22 203   6    -2.8   0.094  -9.000  -9.000  -999.    76.      26.2  0.2930   0.52   0.53   1.00  349.0   15.0  293.5   2.0    0   0.00   92.  1004.     3 NAD-SFC NoSubs
 7   7 22 203   7    32.2   0.298   0.517   0.006   154.   391.     -73.8  0.2930   0.52   0.30   2.60  346.0   15.0  294.8   2.0    0   0.00   84.  1004.     3 NAD-SFC NoSubs
 7   7 22 203   8    77.6   0.109   0.846   0.007   279.   127.      -1.5  0.2930   0.52   0.22   0.50  360.0   15.0  296.6   2.0    0   0.00   75.  1004.     2 NAD-SFC NoSubs
 7   7 22 203   9   118.8  -9.000  -9.000  -9.000   429.  -999.  -99999.0  0.2235   0.52   0.20   0.00    0.0   15.0  298.4   2.0    0   0.00   66.  1003.     2 NAD-SFC NoSubs
 7   7 22 203  10   151.8  -9.000  -9.000  -9.000   624.  -999.  -99999.0  0.2235   0.52   0.19   0.00    0.0   15.0  300.1   2.0    0   0.00   59.  1003.     2 NAD-SFC NoSubs
 7   7 22 203  11   175.1  -9.000  -9.000  -9.000   829.  -999.  -99999.0  0.2235   0.52   0.19   0.00    0.0   15.0  301.8   2.0    0   0.00   53.  1002.     2 NAD-SFC NoSubs
 7   7 22 203  12   187.2  -9.000  -9.000  -9.000   995.  -999.  -99999.0  0.2235   0.52   0.19   0.00    0.0   15.0  302.9   2.0    0   0.00   49.  1002.     2 NAD-SFC NoSubs
 7   7 22 203  13   188.4  -9.000  -9.000  -9.000  1092.  -999.  -99999.0  0.2235   0.52   0.19   0.00    0.0   15.0  304.0   2.0    0   0.00   46.  1001.     2 NAD-SFC NoSubs
 7   7 22 203  14   179.0  -9.000  -9.000  -9.000  1178.  -999.  -99999.0  0.2235   0.52   0.19   0.00    0.0   15.0  304.9   2.0    0   0.00   43.  1000.     2 NAD-SFC NoSubs
 7   7 22 203  15   158.1   0.182   1.768   0.009  1249.   186.      -3.4  0.2940   0.52   0.19   1.00   12.0   15.0  305.5   2.0    0   0.00   41.   999.     2 NAD-SFC NoSubs
 7   7 22 203  16   127.1   0.287   1.668   0.009  1302.   368.     -16.5  0.2940   0.52   0.20   2.10   19.0   15.0  305.8   2.0    0   0.00   41.   999.     2 NAD-SFC NoSubs
 7   7 22 203  17    87.5   0.310   1.486   0.009  1337.   415.     -30.4  0.2470   0.52   0.22   2.60   32.0   15.0  305.5   2.0    0   0.00   45.   999.     2 NAD-SFC NoSubs
 7   7 22 203  18    41.8   0.293   1.166   0.009  1351.   380.     -53.4  0.2470   0.52   0.28   2.60   33.0   15.0  305.1   2.0    0   0.00   53.   999.     2 NAD-SFC NoSubs
 7   7 22 203  19    -1.8   0.321  -9.000  -9.000  -999.   436.    1635.5  0.2940   0.52   0.49   3.10   27.0   15.0  304.2   2.0    0   0.00   54.   999.     3 NAD-SFC NoSubs
 7   7 22 203  20   -16.0   0.201  -9.000  -9.000  -999.   223.      44.8  0.2940   0.52   1.00   2.10   20.0   15.0  303.1   2.0    0   0.00   56.  1000.     3 NAD-SFC NoSubs
 7   7 22 203  21   -26.2   0.264  -9.000  -9.000  -999.   325.      62.3  0.1750   0.52   1.00   3.10  269.0   15.0  302.0   2.0    0   0.00   60.  1000.     3 NAD-SFC NoSubs
 7   7 22 203  22   -40.0   0.398  -9.000  -9.000  -999.   603.     140.7  0.1750   0.52   1.00   4.60  265.0   15.0  299.2   2.0    0   0.00   70.  1001.     3 NAD-SFC NoSubs
 7   7 22 203  23   -36.3   0.373  -9.000  -9.000  -999.   548.     127.8  0.2160   0.52   1.00   4.10  272.0   15.0  298.2   2.0    0   0.00   74.  1001.     4 NAD-SFC NoSubs
 7   7 22 203  24   -33.8   0.347  -9.000  -9.000  -999.   492.     110.8  0.2720   0.52   1.00   3.60  315.0   15.0  298.2   2.0    0   0.00   77.  1001.     4 NAD-SFC NoSubs
 7   7 23 204   1   -33.8   0.347  -9.000  -9.000  -999.   491.     110.5  0.2720   0.52   1.00   3.60  329.0   15.0  297.6   2.0    0   0.00   79.  1001.     4 NAD-SFC NoSubs
 7   7 23 204   2   -29.7   0.304  -9.000  -9.000  -999.   403.      84.3  0.2930   0.52   1.00   3.10  349.0   15.0  297.0   2.0    0   0.00   80.  1002.     4 NAD-SFC NoSubs
 7   7 23 204   3  -999.0  -9.000  -9.000  -9.000  -999.  -999.  -99999.0  0.2235   0.52   1.00   0.00    0.0   15.0  296.2   2.0    0   0.00   81.  1002.     4 NAD-SFC NoSubs
 7   7 23 204   4   -24.8   0.252  -9.000  -9.000  -999.   304.      58.0  0.2940   0.52   1.00   2.60    7.0   15.0  295.8   2.0    0   0.00   82.  1002.     4 NAD-SFC NoSubs
 7   7 23 204   5   -16.0   0.201  -9.000  -9.000  -999.   216.      45.1  0.2940   0.52   1.00   2.10   14.0   15.0  295.1   2.0    0   0.00   83.  1002.     4 NAD-SFC NoSubs
 7   7 23 204   6    -6.1   0.143  -9.000  -9.000  -999.   130.      42.2  0.2940   0.52   0.54   1.50    8.0   15.0  294.8   2.0    0   0.00   83.  1002.     4 NAD-SFC NoSubs
 7   7 23 204   7    31.8  -9.000  -9.000  -9.000   234.  -999.  -99999.0  0.2235   0.52   0.30   0.00    0.0   15.0  294.9   2.0    0   0.00   81.  1002.     3 NAD-SFC NoSubs
 7   7 23 204   8    77.5   0.319   0.915   0.006   353.   432.     -37.4  0.2940   0.52   0.22   2.60    2.0   15.0  295.4   2.0    0   0.00   76.  1002.     3 NAD-SFC NoSubs
 7   7 23 204   9   118.1   0.223   1.188   0.006   508.   257.      -8.4  0.2720   0.52   0.20   1.50  328.0   15.0  296.5   2.0    0   0.00   71.  1001.     3 NAD-SFC NoSubs
 7   7 23 204  10   150.6   0.169   1.409   0.006   663.   168.      -2.9  0.2160   0.52   0.19   1.00  294.0   15.0  297.8   2.0    0   0.00   67.  1001.     3 NAD-SFC NoSubs
 7   7 23 204  11   173.4   0.114   1.592   0.006   832.    93.      -1.0  0.2160   0.52   0.19   0.50  274.0   15.0  298.8   2.0    0   0.00   63.  1001.     3 NAD-SFC NoSubs
 7   7 23 204  12   185.5   0.110   1.721   0.008   982.    87.      -1.0  0.1750   0.52   0.19   0.50  267.0   15.0  300.2   2.0    0   0.00   59.  1000.     3 NAD-SFC NoSubs
 7   7 23 204  13   187.0  -9.000  -9.000  -9.000  1105.  -999.  -99999.0  0.2235   0.52   0.19   0.00    0.0   15.0  302.0   2.0    0   0.00   55.   999.     3 NAD-SFC NoSubs
 7   7 23 204  14   177.8  -9.000  -9.000  -9.000  1210.  -999.  -99999.0  0.2235   0.52   0.19   0.00    0.0   15.0  303.1   2.0    0   0.00   51.   998.     2 NAD-SFC NoSubs
 7   7 23 204  15   157.0   0.118   1.786   0.010  1295.    97.      -1.0  0.2720   0.52   0.19   0.50  314.0   15.0  303.8   2.0    0   0.00   49.   998.     3 NAD-SFC NoSubs
 7   7 23 204  16   126.2   0.228   1.685   0.010  1351.   262.      -8.4  0.2930   0.52   0.20   1.50  355.0   15.0  303.9   2.0    0   0.00   49.   998.     3 NAD-SFC NoSubs
 7   7 23 204  17    86.9   0.276   1.498   0.010  1376.   348.     -21.6  0.2940   0.52   0.22   2.10   11.0   15.0  303.8   2.0    0   0.00   56.   997.     3 NAD-SFC NoSubs
 7   7 23 204  18    41.5   0.397   1.174   0.010  1387.   600.    -133.8  0.2940   0.52   0.28   3.60   15.0   15.0  303.1   2.0    0   0.00   63.   998.     3 NAD-SFC NoSubs
 7   7 23 204  19    -7.7   0.421  -9.000  -9.000  -999.   655.     855.7  0.2940   0.52   0.49   4.10    9.0   15.0  301.5   2.0    0   0.00   69.   998.     3 NAD-SFC NoSubs
 7   7 23 204  20  -999.0  -9.000  -9.000  -9.000  -999.  -999.  -99999.0  0.2235   0.52   1.00   0.00    0.0   15.0  300.1   2.0    0   0.00   74.   999.     3 NAD-SFC NoSubs
 7   7 23 204  21   -35.6   0.355  -9.000  -9.000  -999.   507.     111.6  0.2930   0.52   1.00   3.60  349.0   15.0  299.0   2.0    0   0.00   79.   999.     3 NAD-SFC NoSubs
 7   7 23 204  22   -29.5   0.304  -9.000  -9.000  -999.   403.      84.7  0.2930   0.52   1.00   3.10  339.0   15.0  298.2   2.0    0   0.00   81.   999.     4 NAD-SFC NoSubs
 7   7 23 204  23   -29.5   0.304  -9.000  -9.000  -999.   402.      84.5  0.2930   0.52   1.00   3.10  343.0   15.0  297.8   2.0    0   0.00   82.   999.     4 NAD-SFC NoSubs
 7   7 23 204  24   -24.5   0.252  -9.000  -9.000  -999.   305.      58.2  0.2930   0.52   1.00   2.60  350.0   15.0  297.4   2.0    0   0.00   82.   999.     4 NAD-SFC NoSubs
 7   7 24 205   1    -8.1   0.140  -9.000  -9.000  -999.   132.      30.2  0.2930   0.52   1.00   1.50  345.0   15.0  297.1   2.0    0   0.00   83.   999.     3 NAD-SFC NoSubs
 7   7 24 205   2    -7.0   0.129  -9.000  -9.000  -999.   111.      27.0  0.2160   0.52   1.00   1.50  299.0   15.0  296.8   2.0    0   0.00   84.   999.     3 NAD-SFC NoSubs
 7   7 24 205   3    -7.0   0.129  -9.000  -9.000  -999.   111.      27.0  0.2160   0.52   1.00   1.50  279.0   15.0  296.2   2.0    0   0.00   85.   999.     3 NAD-SFC NoSubs
 7   7 24 205   4    -7.8   0.137  -9.000  -9.000  -999.   121.      29.3  0.2720   0.52   1.00   1.50  310.0   15.0  295.9   2.0    0   0.00   86.   999.     3 NAD-SFC NoSubs
 7   7 24 205   5   -16.2   0.200  -9.000  -9.000  -999.   215.      44.1  0.2930   0.52   1.00   2.10  340.0   15.0  295.5   2.0    0   0.00   88.   999.     3 NAD-SFC NoSubs
 7   7 24 205   6   -16.2   0.255  -9.000  -9.000  -999.   309.      91.1  0.2930   0.52   0.54   2.60  355.0   15.0  295.1   2.0    0   0.00   89.   999.     3 NAD-SFC NoSubs
 7   7 24 205   7    31.8   0.298   0.571   0.005   208.   391.     -74.4  0.2940   0.52   0.30   2.60    6.0   15.0  296.2   2.0    0   0.00   80.   999.     3 NAD-SFC NoSubs
 7   7 24 205   8    78.1  -9.000  -9.000  -9.000   380.  -999.  -99999.0  0.2235   0.52   0.22   0.00    0.0   15.0  298.0   2.0    0   0.00   72.   999.     3 NAD-SFC NoSubs
 7   7 24 205   9   119.0  -9.000  -9.000  -9.000   607.  -999.  -99999.0  0.2235   0.52   0.20   0.00    0.0   15.0  299.8   2.0    0   0.00   66.   998.     3 NAD-SFC NoSubs
 7   7 24 205  10   151.8  -9.000  -9.000  -9.000   778.  -999.  -99999.0  0.2235   0.52   0.19   0.00    0.0   15.0  301.2   2.0    0   0.00   60.   998.     2 NAD-SFC NoSubs
 7   7 24 205  11   175.2  -9.000  -9.000  -9.000   929.  -999.  -99999.0  0.2235   0.52   0.19   0.00    0.0   15.0  302.9   2.0    0   0.00   54.   997.     2 NAD-SFC NoSubs
 7   7 24 205  12   187.4  -9.000  -9.000  -9.000  1029.  -999.  -99999.0  0.2235   0.52   0.19   0.00    0.0   15.0  304.2   2.0    0   0.00   49.   997.     2 NAD-SFC NoSubs
 7   7 24 205  13   188.4   0.121   1.803   0.010  1106.   101.      -1.0  0.2720   0.52   0.19   0.50  321.0   15.0  305.2   2.0    0   0.00   45.   996.     3 NAD-SFC NoSubs
 7   7 24 205  14   179.0   0.185   1.808   0.009  1175.   190.      -3.1  0.2930   0.52   0.19   1.00  336.0   15.0  306.0   2.0    0   0.00   43.   996.     3 NAD-SFC NoSubs
 7   7 24 205  15   158.2   0.293   1.764   0.009  1232.   381.     -14.1  0.2930   0.52   0.19   2.10  346.0   15.0  306.5   2.0    0   0.00   43.   995.     3 NAD-SFC NoSubs
 7   7 24 205  16   127.7   0.380   1.662   0.009  1277.   562.     -38.1  0.2930   0.52   0.20   3.10  358.0   15.0  307.1   2.0    0   0.00   42.   995.     3 NAD-SFC NoSubs
 7   7 24 205  17    88.2   0.323   1.480   0.009  1306.   442.     -33.8  0.2940   0.52   0.22   2.60   10.0   15.0  306.8   2.0    0   0.00   52.   995.     3 NAD-SFC NoSubs
 7   7 24 205  18    42.7  -9.000  -9.000  -9.000  1319.  -999.  -99999.0  0.2235   0.52   0.28   0.00    0.0   15.0  306.1   2.0    0   0.00   58.   995.     3 NAD-SFC NoSubs
 7   7 24 205  19    -2.2   0.320  -9.000  -9.000  -999.   434.    1299.6  0.2930   0.52   0.49   3.10  343.0   15.0  305.2   2.0    0   0.00   59.   996.     3 NAD-SFC NoSubs
 7   7 24 205  20   -46.2   0.468  -9.000  -9.000  -999.   768.     197.3  0.2160   0.52   1.00   5.10  278.0   15.0  303.6   2.0    0   0.00   63.   996.     3 NAD-SFC NoSubs
 7   7 24 205  21   -52.6   0.525  -9.000  -9.000  -999.   913.     245.3  0.2160   0.52   1.00   5.70  275.0   15.0  299.5   2.0    0   0.00   72.   997.     3 NAD-SFC NoSubs
 7   7 24 205  22   -42.3   0.420  -9.000  -9.000  -999.   663.     155.9  0.2160   0.52   1.00   4.60  274.0   15.0  297.8   2.0    0   0.00   74.   997.     3 NAD-SFC NoSubs
 7   7 24 205  23   -32.9   0.326  -9.000  -9.000  -999.   452.      93.4  0.2160   0.52   1.00   3.60  270.0   15.0  297.0   2.0    0   0.00   76.   998.     3 NAD-SFC NoSubs
 7   7 24 205  24   -31.2   0.308  -9.000  -9.000  -999.   411.      83.5  0.1750   0.52   1.00   3.60  269.0   15.0  296.2   2.0    0   0.00   77.   998.     3 NAD-SFC NoSubs
 7   7 25 206   1   -31.3   0.308  -9.000  -9.000  -999.   411.      83.4  0.1750   0.52   1.00   3.60  269.0   15.0  295.6   2.0    0   0.00   79.   998.     3 NAD-SFC NoSubs
 7   7 25 206   2   -31.9   0.326  -9.000  -9.000  -999.   446.      96.4  0.2160   0.52   1.00   3.60  278.0   15.0  295.0   2.0    0   0.00   80.   999.     4 NAD-SFC NoSubs
 7   7 25 206   3   -23.9   0.247  -9.000  -9.000  -999.   297.      55.8  0.2720   0.52   1.00   2.60  309.0   15.0  294.8   2.0    0   0.00   80.   999.     4 NAD-SFC NoSubs
 7   7 25 206   4   -24.8   0.252  -9.000  -9.000  -999.   304.      57.6  0.2930   0.52   1.00   2.60  333.0   15.0  294.4   2.0    0   0.00   79.   999.     4 NAD-SFC NoSubs
 7   7 25 206   5   -29.2   0.297  -9.000  -9.000  -999.   388.      79.9  0.2720   0.52   1.00   3.10  325.0   15.0  294.2   2.0    0   0.00   80.  1000.     4 NAD-SFC NoSubs
 7   7 25 206   6   -18.3   0.300  -9.000  -9.000  -999.   395.     132.0  0.2720   0.52   0.55   3.10  324.0   15.0  294.1   2.0    0   0.00   80.  1000.     4 NAD-SFC NoSubs
 7   7 25 206   7    31.6   0.293   0.502   0.006   143.   381.     -71.0  0.2720   0.52   0.30   2.60  319.0   15.0  295.2   2.0    0   0.00   73.  1001.     4 NAD-SFC NoSubs
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7	7	25	206	8	77.2	0.163	0.826	0.007	260.	168.	-5.0	0.2720	0.52	0.22	1.00	318.0	15.0	296.8	2.0	0	0.00	68.	1001.	3	NAD-SFC	NoSubs
7	7	25	206	9	118.2	-9.000	-9.000	-9.000	444.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	298.5	2.0	0	0.00	64.	1000.	3	NAD-SFC	NoSubs
7	7	25	206	10	151.2	-9.000	-9.000	-9.000	643.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.4	2.0	0	0.00	61.	1000.	3	NAD-SFC	NoSubs
7	7	25	206	11	174.6	-9.000	-9.000	-9.000	819.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.2	2.0	0	0.00	57.	999.	2	NAD-SFC	NoSubs
7	7	25	206	12	187.0	-9.000	-9.000	-9.000	974.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.8	2.0	0	0.00	51.	998.	2	NAD-SFC	NoSubs
7	7	25	206	13	188.4	-9.000	-9.000	-9.000	1073.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	305.1	2.0	0	0.00	46.	998.	2	NAD-SFC	NoSubs
7	7	25	206	14	178.9	0.120	1.799	0.009	1160.	100.	-1.0	0.2720	0.52	0.19	0.50	326.0	15.0	306.0	2.0	0	0.00	43.	997.	2	NAD-SFC	NoSubs
7	7	25	206	15	157.9	0.182	1.762	0.009	1232.	186.	-3.4	0.2930	0.52	0.19	1.00	353.0	15.0	306.5	2.0	0	0.00	41.	996.	2	NAD-SFC	NoSubs
7	7	25	206	16	127.2	0.287	1.663	0.008	1286.	368.	-16.5	0.2940	0.52	0.20	2.10	3.0	15.0	306.8	2.0	0	0.00	42.	996.	3	NAD-SFC	NoSubs
7	7	25	206	17	87.8	0.322	1.483	0.008	1322.	439.	-33.9	0.2940	0.52	0.22	2.60	12.0	15.0	306.5	2.0	0	0.00	47.	996.	3	NAD-SFC	NoSubs
7	7	25	206	18	42.4	0.305	1.168	0.008	1337.	404.	-59.3	0.2940	0.52	0.28	2.60	9.0	15.0	306.2	2.0	0	0.00	55.	997.	3	NAD-SFC	NoSubs
7	7	25	206	19	-3.7	0.363	-9.000	-9.000	-999.	524.	1141.0	0.2720	0.52	0.50	3.60	323.0	15.0	305.2	2.0	0	0.00	57.	997.	3	NAD-SFC	NoSubs
7	7	25	206	20	-46.6	0.468	-9.000	-9.000	-999.	768.	195.7	0.2160	0.52	1.00	5.10	276.0	15.0	301.2	2.0	0	0.00	62.	998.	3	NAD-SFC	NoSubs
7	7	25	206	21	-47.1	0.468	-9.000	-9.000	-999.	768.	193.5	0.2160	0.52	1.00	5.10	272.0	15.0	298.0	2.0	0	0.00	65.	998.	3	NAD-SFC	NoSubs
7	7	25	206	22	-42.5	0.420	-9.000	-9.000	-999.	656.	155.3	0.2160	0.52	1.00	4.60	278.0	15.0	296.6	2.0	0	0.00	70.	999.	3	NAD-SFC	NoSubs
7	7	25	206	23	-33.1	0.325	-9.000	-9.000	-999.	452.	92.9	0.2160	0.52	1.00	3.60	281.0	15.0	295.8	2.0	0	0.00	72.	999.	3	NAD-SFC	NoSubs
7	7	25	206	24	-28.3	0.278	-9.000	-9.000	-999.	353.	67.8	0.2160	0.52	1.00	3.10	295.0	15.0	295.1	2.0	0	0.00	73.	999.	3	NAD-SFC	NoSubs
7	7	26	207	1	-30.3	0.297	-9.000	-9.000	-999.	388.	76.9	0.2720	0.52	1.00	3.10	310.0	15.0	294.6	2.0	0	0.00	74.	1000.	3	NAD-SFC	NoSubs
7	7	26	207	2	-25.3	0.252	-9.000	-9.000	-999.	304.	56.2	0.2930	0.52	1.00	2.60	335.0	15.0	294.2	2.0	0	0.00	75.	1000.	3	NAD-SFC	NoSubs
7	7	26	207	3	-25.3	0.252	-9.000	-9.000	-999.	303.	56.2	0.2930	0.52	1.00	2.60	343.0	15.0	293.9	2.0	0	0.00	75.	1000.	3	NAD-SFC	NoSubs
7	7	26	207	4	-24.4	0.246	-9.000	-9.000	-999.	293.	54.5	0.2720	0.52	1.00	2.60	326.0	15.0	293.8	2.0	0	0.00	75.	1000.	3	NAD-SFC	NoSubs
7	7	26	207	5	-24.4	0.246	-9.000	-9.000	-999.	293.	54.5	0.2720	0.52	1.00	2.60	318.0	15.0	293.5	2.0	0	0.00	77.	1000.	3	NAD-SFC	NoSubs
7	7	26	207	6	-13.1	0.199	-9.000	-9.000	-999.	213.	53.4	0.2720	0.52	0.55	2.10	326.0	15.0	293.4	2.0	0	0.00	79.	1001.	3	NAD-SFC	NoSubs
7	7	26	207	7	30.3	0.196	0.516	0.009	161.	209.	-22.3	0.2930	0.52	0.30	1.50	347.0	15.0	294.5	2.0	0	0.00	74.	1001.	3	NAD-SFC	NoSubs
7	7	26	207	8	76.6	0.109	0.869	0.009	305.	89.	-1.5	0.2930	0.52	0.22	0.50	339.0	15.0	296.2	2.0	0	0.00	67.	1001.	3	NAD-SFC	NoSubs
7	7	26	207	9	117.6	-9.000	-9.000	-9.000	447.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	298.0	2.0	0	0.00	63.	1001.	3	NAD-SFC	NoSubs
7	7	26	207	10	150.6	-9.000	-9.000	-9.000	587.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.9	2.0	0	0.00	59.	1001.	2	NAD-SFC	NoSubs
7	7	26	207	11	174.1	-9.000	-9.000	-9.000	737.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.8	2.0	0	0.00	54.	1000.	2	NAD-SFC	NoSubs
7	7	26	207	12	186.6	-9.000	-9.000	-9.000	890.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.5	2.0	0	0.00	49.	999.	2	NAD-SFC	NoSubs
7	7	26	207	13	188.1	-9.000	-9.000	-9.000	1008.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	304.9	2.0	0	0.00	44.	999.	2	NAD-SFC	NoSubs
7	7	26	207	14	178.6	0.120	1.761	0.010	1089.	100.	-1.0	0.2720	0.52	0.19	0.50	328.0	15.0	305.9	2.0	0	0.00	40.	998.	2	NAD-SFC	NoSubs
7	7	26	207	15	157.7	0.182	1.724	0.010	1157.	186.	-3.4	0.2930	0.52	0.19	1.00	353.0	15.0	306.5	2.0	0	0.00	39.	997.	2	NAD-SFC	NoSubs
7	7	26	207	16	126.5	0.228	1.625	0.010	1207.	262.	-8.4	0.2930	0.52	0.20	1.50	359.0	15.0	306.8	2.0	0	0.00	39.	997.	2	NAD-SFC	NoSubs
7	7	26	207	17	86.5	-9.000	-9.000	-9.000	1240.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	306.2	2.0	0	0.00	45.	997.	2	NAD-SFC	NoSubs
7	7	26	207	18	40.5	0.349	1.126	0.010	1254.	496.	-93.6	0.2940	0.52	0.29	3.10	14.0	15.0	305.8	2.0	0	0.00	53.	997.	2	NAD-SFC	NoSubs
7	7	26	207	19	-6.0	0.369	-9.000	-9.000	-999.	537.	744.0	0.2940	0.52	0.50	3.60	13.0	15.0	304.6	2.0	0	0.00	56.	998.	3	NAD-SFC	NoSubs
7	7	26	207	20	-34.3	0.347	-9.000	-9.000	-999.	491.	108.5	0.2720	0.52	1.00	3.60	308.0	15.0	303.6	2.0	0	0.00	58.	999.	3	NAD-SFC	NoSubs
7	7	26	207	21	-46.9	0.468	-9.000	-9.000	-999.	768.	194.5	0.2160	0.52	1.00	5.10	279.0	15.0	299.4	2.0	0	0.00	68.	999.	3	NAD-SFC	NoSubs
7	7	26	207	22	-42.5	0.420	-9.000	-9.000	-999.	656.	155.7	0.2160	0.52	1.00	4.60	280.0	15.0	297.2	2.0	0	0.00	70.	1000.	3	NAD-SFC	NoSubs
7	7	26	207	23	-33.0	0.326	-9.000	-9.000	-999.	452.	93.1	0.2160	0.52	1.00	3.60	279.0	15.0	296.2	2.0	0	0.00	72.	1000.	3	NAD-SFC	NoSubs
7	7	26	207	24	-28.3	0.278	-9.000	-9.000	-999.	353.	67.9	0.2160	0.52	1.00	3.10	287.0	15.0	295.6	2.0	0	0.00	74.	1000.	3	NAD-SFC	NoSubs
7	7	27	208	1	-24.4	0.246	-9.000	-9.000	-999.	294.	54.7	0.2720	0.52	1.00	2.60	310.0	15.0	295.2	2.0	0	0.00	73.	1000.	3	NAD-SFC	NoSubs
7	7	27	208	2	-16.3	0.200	-9.000	-9.000	-999.	216.	44.1	0.2940	0.52	1.00	2.10	10.0	15.0	294.9	2.0	0	0.00	74.	1001.	3	NAD-SFC	NoSubs
7	7	27	208	3	-16.3	0.200	-9.000	-9.000	-999.	215.	44.0	0.2940	0.52	1.00	2.10	16.0	15.0	294.6	2.0	0	0.00	74.	1001.	3	NAD-SFC	NoSubs
7	7	27	208	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	294.2	2.0	0	0.00	74.	1001.	3	NAD-SFC	NoSubs
7	7	27	208	5	-3.9	0.101	-9.000	-9.000	-999.	77.	23.7	0.2930	0.52	1.00	1.00	340.0	15.0	294.0	2.0	0	0.00	75.	1001.	3	NAD-SFC	NoSubs
7	7	27	208	6	-3.0	0.093	-9.000	-9.000	-999.	69.	24.6	0.2720	0.52	0.56	1.00	327.0	15.0	293.9	2.0	0	0.00	76.	1001.	3	NAD-SFC	NoSubs
7	7	27	208	7	30.2	0.196	0.475	0.008	126.	208.	-22.3	0.2930	0.52	0.30	1.50	335.0	15.0	295.6	2.0	0	0.00	69.	1002.	3	NAD-SFC	NoSubs
7	7	27	208	8	76.5	0.109	0.829	0.008	266.	89.	-1.5	0.2930	0.52	0.22	0.50	331.0	15.0	297.1	2.0	0	0.00	64.	1002.	3	NAD-SFC	NoSubs
7	7	27	208	9	117.2	-9.000	-9.000	-9.000	430.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	298.8	2.0	0	0.00	60.	1001.	2	NAD-SFC	NoSubs
7	7	27	208	10	150.6	-9.000	-9.000	-9.000	598.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.5	2.0	0	0.00	55.	1001.	2	NAD-SFC	NoSubs
7	7	27	208	11	174.1	-9.000	-9.000	-9.000	789.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.1	2.0	0	0.00	52.	1001.	2	NAD-SFC	NoSubs
7	7	27	208	12	186.4	-9.000	-9.000	-9.000	973.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.6	2.0	0	0.00	48.	1000.	2	NAD-SFC	NoSubs
7	7	27	208	13	187.9	-9.000	-9.000	-9.000	1059.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	305.0	2.0	0	0.00	45.	999.	2	NAD-SFC	NoSubs
7	7	27	208	14	178.3	0.122	1.783	0.010	1134.	103.	-1.0	0.2930	0.52	0.19	0.50	354.0	15.0	305.9	2.0	0	0.00	42.	998.	2	NAD-SFC	NoSubs
7	7	27	208	15	157.4	-9.000	-9.000	-9.000	1196.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	306.5	2.0	0	0.00	40.	998.	2	NAD-SFC	NoSubs
7	7	27	208	16	126.2	0.286	1.640	0.010	1244.	368.	-16.6	0.2940	0.52	0.20	2.10	11.0	15.0	306.8	2.0	0	0.00	40.	997.	2	NAD-SFC	NoSubs
7	7	27	208	17	86.3	0.276	1.457	0.010	1275.	348.	-21.7	0.2940	0.52	0.22	2.10	29.0	15.0	306.5	2.0	0	0.00	46.	997.	2	NAD-SFC	NoSubs
7	7	27	208	18	41.6	0.304	1.146	0.010	1289.	402.	-60.2	0.2940	0.52	0.29	2.60	23.0	15.0	306.4	2.0	0	0.00	51.	998.	3	NAD-SFC	NoSubs
7	7	27	208	19	-4.9	0.309	-9.000	-9.000	-999.	412.	539.8	0.2720	0.52	0.50	3.10	319.0	15.0	305.5	2.0	0	0.00	51.	998.	3	NAD-SFC	NoSubs
7	7	27	208	20	-46.7	0.468	-9.000	-9.000	-999.	768.	195.7	0.2160	0.52	1.00	5.10	284.0	15.0	301.2	2.0	0	0.00	61.	999.	3	NAD-SFC	NoSubs
7	7	27	208	21	-44.7	0.443	-9.000	-9.000	-999.	709.	173.5	0.1750	0.52	1.00	5.10	266.0	15.0	297.8	2.0	0	0.00	68.	999.	3	NAD-SFC	NoSubs
7	7	27	208	22	-40.4	0.398	-9.000	-9.000	-999.	605.	139.2	0.1750	0.52	1.00	4.60	268.0	15.0	296.2	2.0	0	0.00	72.	1000.	3	NAD-SFC	NoSubs
7	7	27	208	23	-38.0	0.373	-9.000	-9.000	-999.	547.	121.7	0.2160	0.52	1.00	4.10	274.0	15.0	295.2	2.0	0	0.00	74.	1000.	3	NAD-SFC	NoSubs
7	7	27	208	24	-28.4	0.278	-9.000	-9.000	-999.	357.	67.7	0.2160	0.52	1.00	3.10	277.0	15.0	294.6	2.0	0	0.00	76.	1000.	3	NAD-SFC	NoSubs
7	7	28	209	1	-7.8	0.137	-9.000	-9.000	-999.	136.	29.2	0.2720	0.52	1.00	1.50	306.0	15.0	294.2	2.0	0	0.00	76.	1001.	3	NAD-SFC	NoSubs
7	7	28	209	2	-3.9	0.101	-9.000	-9.000	-999.	78.	23.7	0.2930	0.52	1.00	1.00	330.0	15.0	294.2	2.0	0	0.00	76.	1001.	3	NAD-SFC	NoSubs
7	7	28	209	3	-3.8	0.100	-9.000	-9.000	-999.	76.	23.3	0.2720	0.52	1.00	1.00	310.0	15.0	294.1	2.0	0	0.00	77.	1001.	3	NAD-SFC	NoSubs
7	7	28	209	4	-7.8	0.137	-9.000	-9.000	-999.	121.	29.2	0.2720	0.52	1.00	1.50	307.0	15.0	293.8	2.0	0	0.00	79.	1001.	3	NAD-SFC	NoSubs
7	7	28	209	5	-15.7	0.196	-9.000	-9.000	-999.	208.	42.5	0.2720	0.52	1.00	2.10	320.0	15.0	293.2	2.0	0	0.00	82.	1001.	3	NAD-SFC	NoSubs
7	7	28	209	6	-14.4	0.202	-9.000	-9.000	-999.	218.	51.4	0.2930	0.52	0.56	2.10	331.0	15.0	292.9	2.0	0	0.00	85.	1002.	2	NAD-SFC	NoSubs
7	7	28	209	7	27.8	0.250	0.555	0.009	219.	300.	-50.0	0.2930	0.52	0.31	2.10	350.0	15.0	293.8	2.0	0	0.00	81.	1002.	2	NAD-SFC	NoSubs
7	7	28	209	8	74.7	0.108	0.885	0.009	331.	102.	-1.5	0.2930	0.52	0.22	0.50	345.0	15.0	295.5	2.0	0	0.00	74.	1001.	2	NAD-SFC	NoSubs
7	7	28	209	9	116.2	-9.000	-9.000	-9.000	462.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	297.1	2.0	0	0.00	69.	1001.	2	NAD-SFC	NoSubs
7	7	28	209	10	149.5	-9.000	-9.000	-9.000	597.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.8	2.0	0	0.00	64.	1001.	2	NAD-SFC	NoSubs
7	7	28	209	11	173.0	-9.000	-9.000	-9.000	723.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.4	2.0	0	0.00	60.	1000.	2	NAD-SFC	NoSubs
7	7	28	209	12	185.4	-9.000	-9.000	-9.000	837.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.0	2.0	0	0.00	54.	999.	2	NAD-SFC	NoSubs

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 7   7 28 209 13  186.9 -9.000 -9.000 -9.000  939. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 303.6  2.0    0  0.00   48.   998.    2 NAD-SFC NoSubs
 7   7 28 209 14  177.3  0.120  1.725  0.010 1033.  100.     -1.0 0.2720  0.52  0.19  0.50  327.0  15.0 304.6  2.0    0  0.00   43.   998.    2 NAD-SFC NoSubs
 7   7 28 209 15  156.4 -9.000 -9.000 -9.000 1112. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 305.2  2.0    0  0.00   40.   997.    2 NAD-SFC NoSubs
 7   7 28 209 16  125.0  0.286  1.602  0.012 1170.  367.    -16.7 0.2940  0.52  0.20  2.10    9.0  15.0 305.2  2.0    0  0.00   40.   997.    2 NAD-SFC NoSubs
 7   7 28 209 17   85.0  0.322  1.423  0.012 1208.  438.    -34.8 0.2940  0.52  0.22  2.60   21.0  15.0 304.9  2.0    0  0.00   50.   997.    2 NAD-SFC NoSubs
 7   7 28 209 18   38.7  0.349  1.100  0.012 1223.  494.    -97.2 0.2940  0.52  0.29  3.10   29.0  15.0 304.1  2.0    0  0.00   53.   997.    2 NAD-SFC NoSubs
 7   7 28 209 19   -8.7  0.312 -9.000 -9.000 -999.  419.    310.6 0.2940  0.52  0.51  3.10   16.0  15.0 303.0  2.0    0  0.00   57.   998.    3 NAD-SFC NoSubs
 7   7 28 209 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00    0.0  15.0 302.0  2.0    0  0.00   60.   998.    3 NAD-SFC NoSubs
 7   7 28 209 21  -13.9  0.183 -9.000 -9.000 -999.  188.    39.5  0.2160  0.52  1.00  2.10  297.0  15.0 301.1  2.0    0  0.00   63.   998.    3 NAD-SFC NoSubs
 7   7 28 209 22  -37.4  0.373 -9.000 -9.000 -999.  546.   123.4  0.2160  0.52  1.00  4.10  270.0  15.0 299.2  2.0    0  0.00   69.   999.    3 NAD-SFC NoSubs
 7   7 28 209 23  -32.8  0.326 -9.000 -9.000 -999.  447.    93.6  0.2160  0.52  1.00  3.60  272.0  15.0 297.6  2.0    0  0.00   73.   999.    3 NAD-SFC NoSubs
 7   7 28 209 24  -32.9  0.326 -9.000 -9.000 -999.  446.    93.3  0.2160  0.52  1.00  3.60  290.0  15.0 296.8  2.0    0  0.00   74.   999.    3 NAD-SFC NoSubs
 7   7 29 210  1  -35.2  0.347 -9.000 -9.000 -999.  490.   105.7  0.2720  0.52  1.00  3.60  324.0  15.0 296.0  2.0    0  0.00   78.   999.    3 NAD-SFC NoSubs
 7   7 29 210  2  -36.1  0.355 -9.000 -9.000 -999.  507.   110.0  0.2930  0.52  1.00  3.60  342.0  15.0 295.0  2.0    0  0.00   83.  1000.    3 NAD-SFC NoSubs
 7   7 29 210  3  -31.0  0.303 -9.000 -9.000 -999.  402.    80.2  0.2930  0.52  1.00  3.10  351.0  15.0 294.1  2.0    0  0.00   86.  1000.    3 NAD-SFC NoSubs
 7   7 29 210  4  -31.1  0.303 -9.000 -9.000 -999.  401.    80.0  0.2930  0.52  1.00  3.10  346.0  15.0 293.2  2.0    0  0.00   87.  1000.    3 NAD-SFC NoSubs
 7   7 29 210  5  -25.4  0.252 -9.000 -9.000 -999.  304.    56.1  0.2930  0.52  1.00  2.60  347.0  15.0 292.5  2.0    0  0.00   88.  1000.    3 NAD-SFC NoSubs
 7   7 29 210  6  -14.5  0.202 -9.000 -9.000 -999.  219.    50.6  0.2930  0.52  0.57  2.10  341.0  15.0 292.2  2.0    0  0.00   87.  1000.    2 NAD-SFC NoSubs
 7   7 29 210  7   27.1  0.249  0.492  0.007  157.  299.    -51.0 0.2930  0.52  0.31  2.10  346.0  15.0 292.9  2.0    0  0.00   77.  1000.    2 NAD-SFC NoSubs
 7   7 29 210  8   74.0  0.108  0.814  0.008  260.  101.     -1.5 0.2930  0.52  0.23  0.50  341.0  15.0 294.8  2.0    0  0.00   69.  1000.    2 NAD-SFC NoSubs
 7   7 29 210  9  115.7 -9.000 -9.000 -9.000  364. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 296.6  2.0    0  0.00   63.  1000.    2 NAD-SFC NoSubs
 7   7 29 210 10  149.0 -9.000 -9.000 -9.000  583. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 298.2  2.0    0  0.00   59.   999.    2 NAD-SFC NoSubs
 7   7 29 210 11  172.5 -9.000 -9.000 -9.000  771. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 299.9  2.0    0  0.00   54.   998.    2 NAD-SFC NoSubs
 7   7 29 210 12  184.9 -9.000 -9.000 -9.000  925. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 301.5  2.0    0  0.00   49.   997.    2 NAD-SFC NoSubs
 7   7 29 210 13  186.2 -9.000 -9.000 -9.000 1025. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 302.8  2.0    0  0.00   45.   997.    2 NAD-SFC NoSubs
 7   7 29 210 14  176.6  0.122  1.760  0.011 1098.  102.     -1.0 0.2930  0.52  0.19  0.50  332.0  15.0 303.8  2.0    0  0.00   42.   996.    2 NAD-SFC NoSubs
 7   7 29 210 15  155.5  0.234  1.717  0.011 1158.  272.     -7.3 0.2940  0.52  0.19  1.50    8.0  15.0 304.2  2.0    0  0.00   40.   995.    2 NAD-SFC NoSubs
 7   7 29 210 16  124.5  0.333  1.616  0.012 1204.  460.    -26.2 0.2940  0.52  0.20  2.60   10.0  15.0 304.9  2.0    0  0.00   40.   995.    2 NAD-SFC NoSubs
 7   7 29 210 17   84.3  0.321  1.431  0.012 1233.  438.    -34.9 0.2940  0.52  0.22  2.60   22.0  15.0 304.5  2.0    0  0.00   47.   995.    2 NAD-SFC NoSubs
 7   7 29 210 18   38.2  0.348  1.102  0.012 1246.  493.    -98.2 0.2940  0.52  0.29  3.10   22.0  15.0 304.0  2.0    0  0.00   53.   995.    2 NAD-SFC NoSubs
 7   7 29 210 19  -11.3  0.364 -9.000 -9.000 -999.  527.   379.7  0.2940  0.52  0.51  3.60   11.0  15.0 303.0  2.0    0  0.00   55.   995.    3 NAD-SFC NoSubs
 7   7 29 210 20  -30.1  0.303 -9.000 -9.000 -999.  403.    82.5  0.2930  0.52  1.00  3.10  359.0  15.0 301.9  2.0    0  0.00   57.   996.    3 NAD-SFC NoSubs
 7   7 29 210 21  -24.0  0.246 -9.000 -9.000 -999.  295.    55.3  0.2720  0.52  1.00  2.60  328.0  15.0 300.9  2.0    0  0.00   61.   996.    3 NAD-SFC NoSubs
 7   7 29 210 22  -27.8  0.278 -9.000 -9.000 -999.  352.    68.9  0.2160  0.52  1.00  3.10  290.0  15.0 299.9  2.0    0  0.00   65.   996.    3 NAD-SFC NoSubs
 7   7 29 210 23  -27.9  0.278 -9.000 -9.000 -999.  352.    68.6  0.2160  0.52  1.00  3.10  295.0  15.0 298.6  2.0    0  0.00   70.   997.    3 NAD-SFC NoSubs
 7   7 29 210 24  -35.0  0.347 -9.000 -9.000 -999.  490.   106.3  0.2720  0.52  1.00  3.60  310.0  15.0 297.5  2.0    0  0.00   74.   997.    3 NAD-SFC NoSubs
 7   7 30 211  1  -35.9  0.355 -9.000 -9.000 -999.  507.   110.6  0.2930  0.52  1.00  3.60  352.0  15.0 296.4  2.0    0  0.00   80.   997.    3 NAD-SFC NoSubs
 7   7 30 211  2  -36.0  0.355 -9.000 -9.000 -999.  508.   110.3  0.2940  0.52  1.00  3.60    8.0  15.0 295.2  2.0    0  0.00   85.   997.    3 NAD-SFC NoSubs
 7   7 30 211  3  -30.9  0.304 -9.000 -9.000 -999.  403.    80.5  0.2940  0.52  1.00  3.10   18.0  15.0 294.4  2.0    0  0.00   87.   997.    3 NAD-SFC NoSubs
 7   7 30 211  4  -25.3  0.252 -9.000 -9.000 -999.  305.    56.3  0.2940  0.52  1.00  2.60    6.0  15.0 293.8  2.0    0  0.00   89.   997.    3 NAD-SFC NoSubs
 7   7 30 211  5  -31.1  0.304 -9.000 -9.000 -999.  401.    80.1  0.2940  0.52  1.00  3.10   12.0  15.0 293.0  2.0    0  0.00   90.   998.    3 NAD-SFC NoSubs
 7   7 30 211  6   -2.1 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  0.57  0.00    0.0  15.0 292.8  2.0    0  0.00   90.   998.    3 NAD-SFC NoSubs
 7   7 30 211  7   26.8 -9.000 -9.000 -9.000  171. -999. -99999.0 0.2235  0.52  0.31  0.00    0.0  15.0 293.6  2.0    0  0.00   80.   999.    2 NAD-SFC NoSubs
 7   7 30 211  8   73.8  0.108  0.840  0.007  286.   86.     -1.5 0.2930  0.52  0.23  0.50  340.0  15.0 295.4  2.0    0  0.00   72.   998.    2 NAD-SFC NoSubs
 7   7 30 211  9  115.5 -9.000 -9.000 -9.000  413. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 297.2  2.0    0  0.00   66.   998.    2 NAD-SFC NoSubs
 7   7 30 211 10  148.9 -9.000 -9.000 -9.000  632. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 298.8  2.0    0  0.00   62.   998.    2 NAD-SFC NoSubs
 7   7 30 211 11  172.5 -9.000 -9.000 -9.000  846. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 300.5  2.0    0  0.00   56.   997.    2 NAD-SFC NoSubs
 7   7 30 211 12  184.9 -9.000 -9.000 -9.000  999. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 302.1  2.0    0  0.00   50.   996.    2 NAD-SFC NoSubs
 7   7 30 211 13  186.2 -9.000 -9.000 -9.000 1073. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 303.4  2.0    0  0.00   46.   996.    2 NAD-SFC NoSubs
 7   7 30 211 14  176.6  0.122  1.782  0.012 1139.  102.     -1.0 0.2930  0.52  0.19  0.50  355.0  15.0 304.2  2.0    0  0.00   43.   995.    2 NAD-SFC NoSubs
 7   7 30 211 15  155.5  0.181  1.735  0.012 1194.  185.     -3.4 0.2940  0.52  0.19  1.00   21.0  15.0 304.9  2.0    0  0.00   42.   995.    2 NAD-SFC NoSubs
 7   7 30 211 16  124.2  0.275  1.629  0.013 1236.  347.    -14.9 0.2470  0.52  0.20  2.10   32.0  15.0 305.1  2.0    0  0.00   42.   994.    2 NAD-SFC NoSubs
 7   7 30 211 17   84.1  0.321  1.441  0.013 1264.  437.    -35.0 0.2940  0.52  0.22  2.60   29.0  15.0 304.9  2.0    0  0.00   45.   994.    2 NAD-SFC NoSubs
 7   7 30 211 18   38.0  0.291  1.109  0.013 1275.  377.    -57.5 0.2470  0.52  0.29  2.60   34.0  15.0 304.6  2.0    0  0.00   52.   995.    2 NAD-SFC NoSubs
 7   7 30 211 19   -9.6  0.296 -9.000 -9.000 -999.  386.   240.4  0.2470  0.52  0.52  3.10   34.0  15.0 303.6  2.0    0  0.00   55.   995.    3 NAD-SFC NoSubs
 7   7 30 211 20  -24.9  0.252 -9.000 -9.000 -999.  305.    57.2  0.2940  0.52  1.00  2.60   20.0  15.0 302.4  2.0    0  0.00   58.   996.    3 NAD-SFC NoSubs
 7   7 30 211 21   -7.7  0.137 -9.000 -9.000 -999.  129.    29.6  0.2720  0.52  1.00  1.50  311.0  15.0 301.2  2.0    0  0.00   62.   996.    3 NAD-SFC NoSubs
 7   7 30 211 22  -42.2  0.420 -9.000 -9.000 -999.  654.   156.4  0.2160  0.52  1.00  4.60  276.0  15.0 298.6  2.0    0  0.00   72.   997.    3 NAD-SFC NoSubs
 7   7 30 211 23  -37.7  0.373 -9.000 -9.000 -999.  548.   122.1  0.2160  0.52  1.00  4.10  277.0  15.0 296.2  2.0    0  0.00   77.   997.    3 NAD-SFC NoSubs
 7   7 30 211 24  -33.0  0.325 -9.000 -9.000 -999.  447.    92.8  0.2160  0.52  1.00  3.60  284.0  15.0 295.2  2.0    0  0.00   79.   997.    3 NAD-SFC NoSubs
 7   7 31 212  1  -21.9  0.231 -9.000 -9.000 -999.  271.    50.0  0.2160  0.52  1.00  2.60  279.0  15.0 294.8  2.0    0  0.00   80.   997.    3 NAD-SFC NoSubs
 7   7 31 212  2  -14.0  0.183 -9.000 -9.000 -999.  189.    39.0  0.2160  0.52  1.00  2.10  293.0  15.0 294.4  2.0    0  0.00   80.   997.    3 NAD-SFC NoSubs
 7   7 31 212  3  -14.0  0.183 -9.000 -9.000 -999.  188.    39.0  0.2160  0.52  1.00  2.10  298.0  15.0 294.1  2.0    0  0.00   80.   998.    3 NAD-SFC NoSubs
 7   7 31 212  4  -15.6  0.196 -9.000 -9.000 -999.  208.    42.6  0.2720  0.52  1.00  2.10  302.0  15.0 293.8  2.0    0  0.00   81.   998.    3 NAD-SFC NoSubs
 7   7 31 212  5  -30.3  0.297 -9.000 -9.000 -999.  388.    76.6  0.2720  0.52  1.00  3.10  300.0  15.0 293.4  2.0    0  0.00   82.   998.    3 NAD-SFC NoSubs
 7   7 31 212  6  -24.6  0.298 -9.000 -9.000 -999.  391.    96.0  0.2720  0.52  0.58  3.10  302.0  15.0 293.1  2.0    0  0.00   84.   999.    2 NAD-SFC NoSubs
 7   7 31 212  7   26.6  0.290  0.474  0.007  143.  375.    -81.6 0.2720  0.52  0.31  2.60  315.0  15.0 294.2  2.0    0  0.00   79.   999.    2 NAD-SFC NoSubs
 7   7 31 212  8   73.6  0.162  0.808  0.009  255.  166.     -5.2 0.2720  0.52  0.23  1.00  300.0  15.0 296.0  2.0    0  0.00   73.   999.    2 NAD-SFC NoSubs
 7   7 31 212  9  115.4 -9.000 -9.000 -9.000  368. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 297.9  2.0    0  0.00   67.   999.    2 NAD-SFC NoSubs
 7   7 31 212 10  149.1 -9.000 -9.000 -9.000  553. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 299.9  2.0    0  0.00   62.   999.    2 NAD-SFC NoSubs
 7   7 31 212 11  172.8 -9.000 -9.000 -9.000  732. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 301.8  2.0    0  0.00   56.   999.    2 NAD-SFC NoSubs
 7   7 31 212 12  185.3 -9.000 -9.000 -9.000  891. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 303.4  2.0    0  0.00   49.   998.    2 NAD-SFC NoSubs
 7   7 31 212 13  186.6  0.121  1.744  0.010 1013.  101.     -1.0 0.2720  0.52  0.19  0.50  322.0  15.0 304.8  2.0    0  0.00   43.   997.    2 NAD-SFC NoSubs
 7   7 31 212 14  177.1  0.122  1.760  0.010 1097.  102.     -1.0 0.2930  0.52  0.19  0.50  354.0  15.0 305.8  2.0    0  0.00   39.   997.    2 NAD-SFC NoSubs
 7   7 31 212 15  156.0 -9.000 -9.000 -9.000 1167. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 306.4  2.0    0  0.00   37.   997.    2 NAD-SFC NoSubs
 7   7 31 212 16  124.6  0.228  1.623  0.010 1220.  262.     -8.5 0.2940  0.52  0.20  1.50   14.0  15.0 306.6  2.0    0  0.00   37.   996.    2 NAD-SFC NoSubs
 7   7 31 212 17   84.5  0.275  1.439  0.011 1253.  347.    -22.0 0.2940  0.52  0.22  2.10   25.0  15.0 306.4  2.0    0  0.00   41.   996.    2 NAD-SFC NoSubs
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7	7	31	212	18	38.3	0.302	1.109	0.011	1267.	399.	-64.2	0.2940	0.52	0.29	2.60	15.0	15.0	306.1	2.0	0	0.00	47.	997.	2	NAD-SFC	NoSubs
7	7	31	212	19	-14.4	0.354	-9.000	-9.000	-999.	504.	271.9	0.2720	0.52	0.52	3.60	316.0	15.0	304.9	2.0	0	0.00	48.	997.	2	NAD-SFC	NoSubs
7	7	31	212	20	-48.0	0.468	-9.000	-9.000	-999.	767.	189.8	0.2160	0.52	1.00	5.10	276.0	15.0	300.2	2.0	0	0.00	61.	998.	2	NAD-SFC	NoSubs
7	7	31	212	21	-46.0	0.443	-9.000	-9.000	-999.	709.	168.5	0.1750	0.52	1.00	5.10	268.0	15.0	297.0	2.0	0	0.00	69.	999.	2	NAD-SFC	NoSubs
7	7	31	212	22	-43.8	0.420	-9.000	-9.000	-999.	654.	150.7	0.2160	0.52	1.00	4.60	277.0	15.0	295.6	2.0	0	0.00	72.	999.	2	NAD-SFC	NoSubs
7	7	31	212	23	-34.0	0.325	-9.000	-9.000	-999.	451.	90.1	0.2160	0.52	1.00	3.60	277.0	15.0	294.5	2.0	0	0.00	74.	999.	2	NAD-SFC	NoSubs
7	7	31	212	24	-29.2	0.278	-9.000	-9.000	-999.	353.	65.6	0.2160	0.52	1.00	3.10	298.0	15.0	293.8	2.0	0	0.00	75.	1000.	2	NAD-SFC	NoSubs
7	8	1	213	1	-24.7	0.246	-9.000	-9.000	-999.	293.	53.7	0.2720	0.52	1.00	2.60	329.0	15.0	293.2	2.0	0	0.00	76.	1000.	2	NAD-SFC	NoSubs
7	8	1	213	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	292.8	2.0	0	0.00	77.	1001.	3	NAD-SFC	NoSubs
7	8	1	213	3	-31.3	0.304	-9.000	-9.000	-999.	401.	79.8	0.2940	0.52	1.00	3.10	9.0	15.0	291.9	2.0	0	0.00	80.	1001.	3	NAD-SFC	NoSubs
7	8	1	213	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	291.4	2.0	0	0.00	81.	1001.	3	NAD-SFC	NoSubs
7	8	1	213	5	-32.2	0.303	-9.000	-9.000	-999.	400.	77.2	0.2930	0.52	1.00	3.10	357.0	15.0	290.9	2.0	0	0.00	82.	1002.	2	NAD-SFC	NoSubs
7	8	1	213	6	-21.7	0.253	-9.000	-9.000	-999.	307.	66.8	0.2930	0.52	0.58	2.60	351.0	15.0	291.0	2.0	0	0.00	80.	1002.	2	NAD-SFC	NoSubs
7	8	1	213	7	25.6	0.244	0.446	0.011	124.	290.	-50.8	0.2720	0.52	0.31	2.10	329.0	15.0	292.8	2.0	0	0.00	70.	1002.	2	NAD-SFC	NoSubs
7	8	1	213	8	72.7	0.108	0.748	0.013	206.	99.	-1.6	0.2930	0.52	0.23	0.50	347.0	15.0	294.6	2.0	0	0.00	64.	1002.	2	NAD-SFC	NoSubs
7	8	1	213	9	114.7	-9.000	-9.000	-9.000	315.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	297.0	2.0	0	0.00	58.	1001.	2	NAD-SFC	NoSubs
7	8	1	213	10	148.4	-9.000	-9.000	-9.000	433.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.1	2.0	0	0.00	52.	1001.	2	NAD-SFC	NoSubs
7	8	1	213	11	172.2	-9.000	-9.000	-9.000	580.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.2	2.0	0	0.00	46.	1000.	2	NAD-SFC	NoSubs
7	8	1	213	12	184.8	-9.000	-9.000	-9.000	718.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.1	2.0	0	0.00	41.	999.	2	NAD-SFC	NoSubs
7	8	1	213	13	186.3	-9.000	-9.000	-9.000	852.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	304.6	2.0	0	0.00	37.	998.	2	NAD-SFC	NoSubs
7	8	1	213	14	176.7	0.120	1.683	0.010	962.	100.	-1.0	0.2720	0.52	0.19	0.50	306.0	15.0	305.8	2.0	0	0.00	34.	998.	2	NAD-SFC	NoSubs
7	8	1	213	15	155.7	0.181	1.657	0.010	1040.	185.	-3.4	0.2930	0.52	0.19	1.00	350.0	15.0	306.4	2.0	0	0.00	32.	997.	2	NAD-SFC	NoSubs
7	8	1	213	16	124.3	-9.000	-9.000	-9.000	1097.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	306.8	2.0	0	0.00	32.	997.	2	NAD-SFC	NoSubs
7	8	1	213	17	83.9	0.275	1.387	0.010	1132.	347.	-22.1	0.2940	0.52	0.22	2.10	18.0	15.0	306.2	2.0	0	0.00	39.	997.	2	NAD-SFC	NoSubs
7	8	1	213	18	37.4	0.302	1.065	0.010	1147.	397.	-65.2	0.2940	0.52	0.29	2.60	24.0	15.0	305.6	2.0	0	0.00	45.	997.	2	NAD-SFC	NoSubs
7	8	1	213	19	-11.6	0.257	-9.000	-9.000	-999.	313.	130.0	0.2930	0.52	0.53	2.60	346.0	15.0	304.6	2.0	0	0.00	48.	998.	2	NAD-SFC	NoSubs
7	8	1	213	20	-47.7	0.468	-9.000	-9.000	-999.	768.	190.7	0.2160	0.52	1.00	5.10	299.0	15.0	301.6	2.0	0	0.00	56.	998.	2	NAD-SFC	NoSubs
7	8	1	213	21	-48.4	0.468	-9.000	-9.000	-999.	767.	188.1	0.2160	0.52	1.00	5.10	276.0	15.0	297.6	2.0	0	0.00	65.	999.	2	NAD-SFC	NoSubs
7	8	1	213	22	-38.8	0.373	-9.000	-9.000	-999.	552.	118.8	0.2160	0.52	1.00	4.10	287.0	15.0	296.1	2.0	0	0.00	67.	999.	2	NAD-SFC	NoSubs
7	8	1	213	23	-34.0	0.325	-9.000	-9.000	-999.	447.	90.3	0.2160	0.52	1.00	3.60	298.0	15.0	295.1	2.0	0	0.00	68.	1000.	2	NAD-SFC	NoSubs
7	8	1	213	24	-31.0	0.297	-9.000	-9.000	-999.	388.	74.9	0.2720	0.52	1.00	3.10	329.0	15.0	294.6	2.0	0	0.00	68.	1000.	2	NAD-SFC	NoSubs
7	8	2	214	1	-37.2	0.355	-9.000	-9.000	-999.	507.	107.0	0.2940	0.52	1.00	3.60	12.0	15.0	294.1	2.0	0	0.00	68.	1000.	2	NAD-SFC	NoSubs
7	8	2	214	2	-42.7	0.406	-9.000	-9.000	-999.	621.	139.8	0.2940	0.52	1.00	4.10	21.0	15.0	293.2	2.0	0	0.00	71.	1000.	2	NAD-SFC	NoSubs
7	8	2	214	3	-37.5	0.355	-9.000	-9.000	-999.	509.	106.3	0.2940	0.52	1.00	3.60	20.0	15.0	292.4	2.0	0	0.00	73.	1001.	2	NAD-SFC	NoSubs
7	8	2	214	4	-30.5	0.288	-9.000	-9.000	-999.	374.	70.2	0.2470	0.52	1.00	3.10	34.0	15.0	292.1	2.0	0	0.00	74.	1001.	2	NAD-SFC	NoSubs
7	8	2	214	5	-16.5	0.200	-9.000	-9.000	-999.	218.	43.2	0.2940	0.52	1.00	2.10	25.0	15.0	291.9	2.0	0	0.00	72.	1001.	2	NAD-SFC	NoSubs
7	8	2	214	6	-7.5	0.140	-9.000	-9.000	-999.	127.	32.9	0.2940	0.52	0.59	1.50	22.0	15.0	291.8	2.0	0	0.00	71.	1002.	2	NAD-SFC	NoSubs
7	8	2	214	7	25.4	0.146	0.409	0.013	96.	134.	-10.9	0.2930	0.52	0.31	1.00	337.0	15.0	293.8	2.0	0	0.00	57.	1002.	2	NAD-SFC	NoSubs
7	8	2	214	8	72.7	-9.000	-9.000	-9.000	182.	-999.	-99999.0	0.2235	0.52	0.23	0.00	0.0	15.0	295.8	2.0	0	0.00	53.	1002.	2	NAD-SFC	NoSubs
7	8	2	214	9	114.7	-9.000	-9.000	-9.000	301.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	298.0	2.0	0	0.00	49.	1002.	2	NAD-SFC	NoSubs
7	8	2	214	10	148.5	-9.000	-9.000	-9.000	436.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.2	2.0	0	0.00	44.	1002.	2	NAD-SFC	NoSubs
7	8	2	214	11	172.3	-9.000	-9.000	-9.000	616.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.0	2.0	0	0.00	41.	1002.	2	NAD-SFC	NoSubs
7	8	2	214	12	184.7	-9.000	-9.000	-9.000	796.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.5	2.0	0	0.00	38.	1001.	2	NAD-SFC	NoSubs
7	8	2	214	13	186.0	0.123	1.705	0.009	952.	103.	-1.0	0.2930	0.52	0.19	0.50	337.0	15.0	304.6	2.0	0	0.00	36.	1000.	2	NAD-SFC	NoSubs
7	8	2	214	14	176.4	0.122	1.730	0.009	1049.	102.	-1.0	0.2930	0.52	0.19	0.50	357.0	15.0	305.6	2.0	0	0.00	34.	1000.	2	NAD-SFC	NoSubs
7	8	2	214	15	155.1	0.181	1.697	0.009	1124.	185.	-3.4	0.2940	0.52	0.19	1.00	15.0	15.0	306.1	2.0	0	0.00	32.	999.	2	NAD-SFC	NoSubs
7	8	2	214	16	123.6	0.228	1.598	0.010	1179.	261.	-8.5	0.2940	0.52	0.20	1.50	24.0	15.0	306.2	2.0	0	0.00	32.	999.	2	NAD-SFC	NoSubs
7	8	2	214	17	83.2	0.275	1.415	0.010	1214.	346.	-22.3	0.2940	0.52	0.22	2.10	29.0	15.0	305.9	2.0	0	0.00	38.	999.	2	NAD-SFC	NoSubs
7	8	2	214	18	36.7	0.301	1.082	0.010	1228.	397.	-66.3	0.2940	0.52	0.30	2.60	26.0	15.0	305.4	2.0	0	0.00	44.	999.	2	NAD-SFC	NoSubs
7	8	2	214	19	-12.1	0.244	-9.000	-9.000	-999.	291.	107.0	0.2470	0.52	0.53	2.60	45.0	15.0	304.1	2.0	0	0.00	47.	999.	2	NAD-SFC	NoSubs
7	8	2	214	20	-8.1	0.140	-9.000	-9.000	-999.	131.	30.1	0.2940	0.52	1.00	1.50	17.0	15.0	302.8	2.0	0	0.00	51.	999.	2	NAD-SFC	NoSubs
7	8	2	214	21	-35.5	0.347	-9.000	-9.000	-999.	490.	104.6	0.2720	0.52	1.00	3.60	300.0	15.0	300.8	2.0	0	0.00	56.	999.	2	NAD-SFC	NoSubs
7	8	2	214	22	-41.1	0.397	-9.000	-9.000	-999.	600.	135.7	0.2720	0.52	1.00	4.10	305.0	15.0	297.8	2.0	0	0.00	62.	1000.	2	NAD-SFC	NoSubs
7	8	2	214	23	-36.1	0.347	-9.000	-9.000	-999.	492.	103.0	0.2720	0.52	1.00	3.60	311.0	15.0	296.2	2.0	0	0.00	63.	1000.	2	NAD-SFC	NoSubs
7	8	2	214	24	-31.0	0.297	-9.000	-9.000	-999.	389.	75.1	0.2720	0.52	1.00	3.10	323.0	15.0	295.5	2.0	0	0.00	63.	1000.	2	NAD-SFC	NoSubs
7	8	3	215	1	-31.7	0.303	-9.000	-9.000	-999.	400.	78.3	0.2930	0.52	1.00	3.10	330.0	15.0	294.9	2.0	0	0.00	63.	1000.	2	NAD-SFC	NoSubs
7	8	3	215	2	-31.8	0.303	-9.000	-9.000	-999.	400.	78.2	0.2930	0.52	1.00	3.10	337.0	15.0	294.4	2.0	0	0.00	63.	1001.	2	NAD-SFC	NoSubs
7	8	3	215	3	-25.7	0.252	-9.000	-9.000	-999.	304.	55.4	0.2930	0.52	1.00	2.60	350.0	15.0	293.9	2.0	0	0.00	62.	1001.	2	NAD-SFC	NoSubs
7	8	3	215	4	-8.2	0.140	-9.000	-9.000	-999.	132.	29.6	0.2930	0.52	1.00	1.50	350.0	15.0	293.5	2.0	0	0.00	62.	1001.	2	NAD-SFC	NoSubs
7	8	3	215	5	-1.6	0.083	-9.000	-9.000	-999.	58.	31.8	0.2720	0.52	1.00	0.50	329.0	15.0	293.0	2.0	0	0.00	63.	1001.	2	NAD-SFC	NoSubs
7	8	3	215	6	-1.4	0.077	-9.000	-9.000	-999.	51.	30.0	0.2720	0.52	0.59	0.50	311.0	15.0	292.6	2.0	0	0.00	65.	1002.	2	NAD-SFC	NoSubs
7	8	3	215	7	25.1	0.092	0.386	0.013	82.	67.	-2.8	0.2720	0.52	0.31	0.50	309.0	15.0	294.1	2.0	0	0.00	60.	1003.	2	NAD-SFC	NoSubs
7	8	3	215	8	72.4	-9.000	-9.000	-9.000	196.	-999.	-99999.0	0.2235	0.52	0.23	0.00	0.0	15.0	296.2	2.0	0	0.00	55.	1003.	2	NAD-SFC	NoSubs
7	8	3	215	9	114.6	-9.000	-9.000	-9.000	327.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	298.5	2.0	0	0.00	49.	1002.	2	NAD-SFC	NoSubs
7	8	3	215	10	148.3	-9.000	-9.000	-9.000	507.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.4	2.0	0	0.00	44.	1002.	2	NAD-SFC	NoSubs
7	8	3	215	11	172.0	-9.000	-9.000	-9.000	698.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.1	2.0	0	0.00	41.	1002.	2	NAD-SFC	NoSubs
7	8	3	215	12	184.5	-9.000	-9.000	-9.000	831.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.8	2.0	0	0.00	37.	1001.	2	NAD-SFC	NoSubs
7	8	3	215	13	186.0	-9.000	-9.000	-9.000	947.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	305.1	2.0	0	0.00	33.	1000.	2	NAD-SFC	NoSubs
7	8	3	215	14	176.3	-9.000	-9.000	-9.000	1022.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	306.2	2.0	0	0.00	30.	999.	2	NAD-SFC	NoSubs
7	8	3	215	15	155.2	-9.000	-9.000	-9.000	1078.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	306.9	2.0	0	0.00	29.	998.	2	NAD-SFC	NoSubs
7	8	3	215	16	123.6	0.176	1.572	0.010	1119.	178.	-4.0	0.2940	0.52	0.20	1.00	23.0	15.0	307.1	2.0	0	0.00	31.	998.	2	NAD-SFC	NoSubs
7	8	3	215	17	83.1	0.218	1.388	0.009	1146.	245.	-11.1	0.2940	0.52	0.22	1.50	22.0	15.0	306.8	2.0	0	0.00	35.	998.	2	NAD-SFC	NoSubs
7	8	3	215	18	36.6	0.256	1.059	0.009	1156.	310.	-40.6	0.2940	0.52	0.30	2.10	15.0	15.0	306.2	2.0	0	0.00	40.	998.	2	NAD-SFC	NoSubs
7	8	3	215	19	14.3	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.54	0.00	0.0	15.0	304.8	2.0	0	0.00	45.	998.	2	NAD-SFC	NoSubs
7	8	3	215	20	-8.1	0.140	-9.000	-9.000	-999.	125.	30.1	0.2930	0.52	1.00	1.50	341.0	15.0	303.1	2.0	0	0.00	51.	998.	2	NAD-SFC	NoSubs
7	8	3	215	21	-14.1	0.183	-9.000	-9.000	-999.	188.	38.9	0.2160	0.52	1.00	2.10	277.0	15.0	301.6	2.0	0	0.00	56.	999.	2	NAD-SFC	NoSubs
7	8	3	215	22	-38.4	0.373	-9.000	-9.000	-999.	546.	120.1	0.2160	0.52	1.00	4.10	277.0	15.0	299.2	2.0	0	0.00	64.	999.	2	NAD-SFC	NoSubs

7	8	3	215	23	-27.3	0.263	-9.000	-9.000	-999.	331.	59.7	0.1750	0.52	1.00	3.10	267.0	15.0	297.8	2.0	0	0.00	70.	999.	2	NAD-SFC	NoSubs
7	8	3	215	24	-20.2	0.218	-9.000	-9.000	-999.	245.	45.8	0.1750	0.52	1.00	2.60	260.0	15.0	297.1	2.0	0	0.00	71.	999.	2	NAD-SFC	NoSubs
7	8	4	216	1	-13.0	0.173	-9.000	-9.000	-999.	173.	35.7	0.1750	0.52	1.00	2.10	266.0	15.0	296.6	2.0	0	0.00	72.	1000.	2	NAD-SFC	NoSubs
7	8	4	216	2	-14.2	0.183	-9.000	-9.000	-999.	188.	38.5	0.2160	0.52	1.00	2.10	279.0	15.0	295.9	2.0	0	0.00	74.	1000.	2	NAD-SFC	NoSubs
7	8	4	216	3	-24.7	0.246	-9.000	-9.000	-999.	293.	53.9	0.2720	0.52	1.00	2.60	307.0	15.0	295.2	2.0	0	0.00	77.	1000.	2	NAD-SFC	NoSubs
7	8	4	216	4	-31.1	0.297	-9.000	-9.000	-999.	387.	74.9	0.2720	0.52	1.00	3.10	308.0	15.0	294.6	2.0	0	0.00	83.	1001.	2	NAD-SFC	NoSubs
7	8	4	216	5	-31.2	0.296	-9.000	-9.000	-999.	387.	74.6	0.2720	0.52	1.00	3.10	319.0	15.0	293.8	2.0	0	0.00	89.	1001.	2	NAD-SFC	NoSubs
7	8	4	216	6	-21.8	0.247	-9.000	-9.000	-999.	296.	61.9	0.2720	0.52	0.60	2.60	322.0	15.0	293.1	2.0	0	0.00	93.	1001.	2	NAD-SFC	NoSubs
7	8	4	216	7	24.6	0.293	0.455	0.010	137.	381.	-91.7	0.2930	0.52	0.32	2.60	347.0	15.0	294.2	2.0	0	0.00	83.	1002.	2	NAD-SFC	NoSubs
7	8	4	216	8	71.8	0.164	0.771	0.012	228.	170.	-5.5	0.2930	0.52	0.23	1.00	343.0	15.0	295.9	2.0	0	0.00	75.	1002.	2	NAD-SFC	NoSubs
7	8	4	216	9	114.1	-9.000	-9.000	-9.000	335.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	298.4	2.0	0	0.00	65.	1001.	2	NAD-SFC	NoSubs
7	8	4	216	10	147.9	-9.000	-9.000	-9.000	459.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.2	2.0	0	0.00	60.	1001.	2	NAD-SFC	NoSubs
7	8	4	216	11	171.7	-9.000	-9.000	-9.000	594.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.1	2.0	0	0.00	54.	1000.	2	NAD-SFC	NoSubs
7	8	4	216	12	184.2	0.115	1.555	0.008	728.	93.	-1.0	0.2160	0.52	0.19	0.50	278.0	15.0	303.6	2.0	0	0.00	49.	999.	2	NAD-SFC	NoSubs
7	8	4	216	13	185.6	-9.000	-9.000	-9.000	859.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	305.0	2.0	0	0.00	45.	998.	2	NAD-SFC	NoSubs
7	8	4	216	14	175.9	-9.000	-9.000	-9.000	966.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	306.1	2.0	0	0.00	41.	998.	2	NAD-SFC	NoSubs
7	8	4	216	15	154.7	0.181	1.658	0.008	1049.	185.	-3.4	0.2940	0.52	0.19	1.00	3.0	15.0	306.8	2.0	0	0.00	38.	997.	2	NAD-SFC	NoSubs
7	8	4	216	16	123.0	0.286	1.565	0.008	1110.	366.	-16.8	0.2940	0.52	0.20	2.10	8.0	15.0	306.9	2.0	0	0.00	38.	997.	2	NAD-SFC	NoSubs
7	8	4	216	17	82.4	0.275	1.385	0.008	1147.	346.	-22.4	0.2940	0.52	0.22	2.10	18.0	15.0	306.4	2.0	0	0.00	47.	997.	2	NAD-SFC	NoSubs
7	8	4	216	18	35.8	0.347	1.054	0.008	1162.	490.	-103.8	0.2940	0.52	0.30	3.10	22.0	15.0	305.9	2.0	0	0.00	52.	997.	2	NAD-SFC	NoSubs
7	8	4	216	19	-13.9	0.256	-9.000	-9.000	-999.	315.	107.3	0.2940	0.52	0.54	2.60	12.0	15.0	304.8	2.0	0	0.00	55.	997.	2	NAD-SFC	NoSubs
7	8	4	216	20	-30.1	0.297	-9.000	-9.000	-999.	388.	77.3	0.2720	0.52	1.00	3.10	312.0	15.0	303.5	2.0	0	0.00	58.	998.	2	NAD-SFC	NoSubs
7	8	4	216	21	-54.0	0.525	-9.000	-9.000	-999.	913.	238.8	0.2160	0.52	1.00	5.70	285.0	15.0	299.6	2.0	0	0.00	68.	999.	2	NAD-SFC	NoSubs
7	8	4	216	22	-48.6	0.468	-9.000	-9.000	-999.	771.	187.5	0.2160	0.52	1.00	5.10	275.0	15.0	296.8	2.0	0	0.00	69.	999.	2	NAD-SFC	NoSubs
7	8	4	216	23	-43.8	0.420	-9.000	-9.000	-999.	655.	150.7	0.2160	0.52	1.00	4.60	273.0	15.0	295.8	2.0	0	0.00	72.	1000.	2	NAD-SFC	NoSubs
7	8	4	216	24	-33.2	0.325	-9.000	-9.000	-999.	452.	92.7	0.2160	0.52	1.00	3.60	289.0	15.0	295.0	2.0	0	0.00	75.	1000.	3	NAD-SFC	NoSubs
7	8	5	217	1	-31.0	0.303	-9.000	-9.000	-999.	401.	80.4	0.2930	0.52	1.00	3.10	330.0	15.0	294.8	2.0	0	0.00	76.	1001.	3	NAD-SFC	NoSubs
7	8	5	217	2	-25.4	0.252	-9.000	-9.000	-999.	305.	56.4	0.2940	0.52	1.00	2.60	2.0	15.0	294.8	2.0	0	0.00	78.	1001.	3	NAD-SFC	NoSubs
7	8	5	217	3	-8.1	0.140	-9.000	-9.000	-999.	132.	30.0	0.2930	0.52	1.00	1.50	354.0	15.0	294.4	2.0	0	0.00	79.	1002.	3	NAD-SFC	NoSubs
7	8	5	217	4	-1.6	0.083	-9.000	-9.000	-999.	58.	31.6	0.2930	0.52	1.00	0.50	345.0	15.0	293.9	2.0	0	0.00	80.	1002.	3	NAD-SFC	NoSubs
7	8	5	217	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	293.4	2.0	0	0.00	82.	1002.	3	NAD-SFC	NoSubs
7	8	5	217	6	-1.4	0.077	-9.000	-9.000	-999.	51.	29.9	0.2940	0.52	0.60	0.50	25.0	15.0	293.0	2.0	0	0.00	83.	1002.	3	NAD-SFC	NoSubs
7	8	5	217	7	25.2	0.193	0.538	0.010	221.	203.	-25.4	0.2940	0.52	0.32	1.50	6.0	15.0	293.8	2.0	0	0.00	74.	1002.	3	NAD-SFC	NoSubs
7	8	5	217	8	71.9	0.164	0.860	0.010	316.	160.	-5.5	0.2930	0.52	0.23	1.00	341.0	15.0	295.2	2.0	0	0.00	67.	1002.	3	NAD-SFC	NoSubs
7	8	5	217	9	113.5	0.113	1.110	0.009	431.	91.	-1.1	0.2720	0.52	0.20	0.50	324.0	15.0	296.8	2.0	0	0.00	61.	1002.	3	NAD-SFC	NoSubs
7	8	5	217	10	146.9	0.119	1.319	0.008	558.	98.	-1.0	0.2930	0.52	0.19	0.50	332.0	15.0	298.5	2.0	0	0.00	57.	1001.	3	NAD-SFC	NoSubs
7	8	5	217	11	170.3	0.121	1.481	0.007	682.	102.	-1.0	0.2930	0.52	0.19	0.50	341.0	15.0	300.0	2.0	0	0.00	54.	1001.	3	NAD-SFC	NoSubs
7	8	5	217	12	182.6	0.121	1.614	0.007	823.	100.	-1.0	0.2720	0.52	0.19	0.50	328.0	15.0	301.5	2.0	0	0.00	51.	1000.	3	NAD-SFC	NoSubs
7	8	5	217	13	183.8	0.185	1.694	0.007	944.	191.	-3.1	0.2930	0.52	0.19	1.00	343.0	15.0	302.8	2.0	0	0.00	46.	999.	3	NAD-SFC	NoSubs
7	8	5	217	14	174.3	0.237	1.725	0.008	1051.	278.	-6.8	0.2930	0.52	0.19	1.50	352.0	15.0	303.8	2.0	0	0.00	41.	999.	2	NAD-SFC	NoSubs
7	8	5	217	15	152.9	0.292	1.697	0.008	1139.	378.	-14.5	0.2930	0.52	0.19	2.10	352.0	15.0	304.2	2.0	0	0.00	36.	998.	2	NAD-SFC	NoSubs
7	8	5	217	16	121.3	0.331	1.600	0.008	1203.	458.	-26.7	0.2930	0.52	0.20	2.60	340.0	15.0	304.6	2.0	0	0.00	33.	998.	2	NAD-SFC	NoSubs
7	8	5	217	17	80.5	0.269	1.411	0.008	1243.	338.	-21.6	0.2720	0.52	0.22	2.10	316.0	15.0	304.0	2.0	0	0.00	41.	998.	2	NAD-SFC	NoSubs
7	8	5	217	18	33.5	0.366	1.057	0.008	1256.	532.	-130.7	0.2160	0.52	0.30	3.60	291.0	15.0	302.8	2.0	0	0.00	44.	998.	2	NAD-SFC	NoSubs
7	8	5	217	19	-31.7	0.472	-9.000	-9.000	-999.	778.	295.1	0.2160	0.52	0.55	5.10	271.0	15.0	299.0	2.0	0	0.00	51.	999.	2	NAD-SFC	NoSubs
7	8	5	217	20	-54.8	0.525	-9.000	-9.000	-999.	912.	235.6	0.2160	0.52	1.00	5.70	270.0	15.0	295.8	2.0	0	0.00	59.	1000.	2	NAD-SFC	NoSubs
7	8	5	217	21	-45.3	0.443	-9.000	-9.000	-999.	714.	171.3	0.1750	0.52	1.00	5.10	268.0	15.0	294.1	2.0	0	0.00	66.	1000.	3	NAD-SFC	NoSubs
7	8	5	217	22	-38.3	0.373	-9.000	-9.000	-999.	550.	120.8	0.2160	0.52	1.00	4.10	270.0	15.0	293.1	2.0	0	0.00	72.	1001.	3	NAD-SFC	NoSubs
7	8	5	217	23	-33.5	0.325	-9.000	-9.000	-999.	447.	91.8	0.2160	0.52	1.00	3.60	277.0	15.0	292.2	2.0	0	0.00	76.	1001.	3	NAD-SFC	NoSubs
7	8	5	217	24	-24.5	0.246	-9.000	-9.000	-999.	296.	54.3	0.2720	0.52	1.00	2.60	310.0	15.0	291.8	2.0	0	0.00	78.	1002.	3	NAD-SFC	NoSubs
7	8	6	218	1	-16.3	0.200	-9.000	-9.000	-999.	215.	43.7	0.2930	0.52	1.00	2.10	342.0	15.0	291.6	2.0	0	0.00	78.	1002.	3	NAD-SFC	NoSubs
7	8	6	218	2	-25.5	0.252	-9.000	-9.000	-999.	303.	55.9	0.2930	0.52	1.00	2.60	335.0	15.0	291.2	2.0	0	0.00	80.	1003.	3	NAD-SFC	NoSubs
7	8	6	218	3	-24.6	0.246	-9.000	-9.000	-999.	293.	54.2	0.2720	0.52	1.00	2.60	308.0	15.0	290.6	2.0	0	0.00	81.	1003.	3	NAD-SFC	NoSubs
7	8	6	218	4	-22.2	0.231	-9.000	-9.000	-999.	266.	49.6	0.2160	0.52	1.00	2.60	298.0	15.0	290.1	2.0	0	0.00	81.	1003.	3	NAD-SFC	NoSubs
7	8	6	218	5	-24.6	0.246	-9.000	-9.000	-999.	293.	54.1	0.2720	0.52	1.00	2.60	314.0	15.0	289.8	2.0	0	0.00	80.	1003.	3	NAD-SFC	NoSubs
7	8	6	218	6	-14.4	0.197	-9.000	-9.000	-999.	211.	47.6	0.2720	0.52	0.61	2.10	316.0	15.0	289.4	2.0	0	0.00	79.	1004.	4	NAD-SFC	NoSubs
7	8	6	218	7	24.4	0.189	0.502	0.008	185.	197.	-24.7	0.2720	0.52	0.32	1.50	323.0	15.0	290.4	2.0	0	0.00	71.	1004.	4	NAD-SFC	NoSubs
7	8	6	218	8	70.3	0.106	0.894	0.008	364.	85.	-1.5	0.2720	0.52	0.23	0.50	316.0	15.0	291.6	2.0	0	0.00	67.	1004.	3	NAD-SFC	NoSubs
7	8	6	218	9	111.8	-9.000	-9.000	-9.000	496.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	293.1	2.0	0	0.00	63.	1004.	3	NAD-SFC	NoSubs
7	8	6	218	10	145.1	-9.000	-9.000	-9.000	621.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.8	2.0	0	0.00	59.	1004.	3	NAD-SFC	NoSubs
7	8	6	218	11	168.6	-9.000	-9.000	-9.000	750.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.5	2.0	0	0.00	53.	1003.	2	NAD-SFC	NoSubs
7	8	6	218	12	180.9	-9.000	-9.000	-9.000	870.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.0	2.0	0	0.00	47.	1002.	2	NAD-SFC	NoSubs
7	8	6	218	13	182.1	0.123	1.706	0.009	976.	103.	-1.0	0.2930	0.52	0.19	0.50	336.0	15.0	299.2	2.0	0	0.00	41.	1002.	2	NAD-SFC	NoSubs
7	8	6	218	14	172.2	0.184	1.726	0.009	1068.	189.	-3.2	0.2930	0.52	0.19	1.00	342.0	15.0	300.2	2.0	0	0.00	36.	1001.	2	NAD-SFC	NoSubs
7	8	6	218	15	150.7	0.291	1.688	0.009	1142.	377.	-14.6	0.2930	0.52	0.19	2.10	346.0	15.0	300.8	2.0	0	0.00	34.	1001.	2	NAD-SFC	NoSubs
7	8	6	218	16	118.8	0.377	1.584	0.010	1196.	556.	-40.3	0.2930	0.52	0.20	3.10	360.0	15.0	300.8	2.0	0	0.00	33.	1001.	2	NAD-SFC	NoSubs
7	8	6	218	17	78.1	-9.000	-9.000	-9.000	1230.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	300.4	2.0	0	0.00	39.	1001.	2	NAD-SFC	NoSubs
7	8	6	218	18	31.3	0.344	1.028	0.010	1241.	485.	-116.5	0.2940	0.52	0.30	3.10	1.0	15.0	299.4	2.0	0	0.00	49.	1001.	2	NAD-SFC	NoSubs
7	8	6	218	19	-23.5	0.358	-9.000	-9.000	-999.	513.	173.7	0.2930	0.52	0.56	3.60	344.0	15.0	297.9	2.0	0	0.00	54.	1001.	3	NAD-SFC	NoSubs
7	8	6	218	20	-37.9	0.373	-9.000	-9.000	-999.	546.	122.0	0.2160	0.52	1.00	4.10	298.0	15.0	296.0	2.0	0	0.00	60.	1002.	3	NAD-SFC	NoSubs
7	8	6	218	21	-43.1	0.420	-9.000	-9.000	-999.	653.	153.7	0.2160	0.52	1.00	4.60	276.0	15.0	293.6	2.0	0	0.00	69.	1002.	3	NAD-SFC	NoSubs
7	8	6	218	22	-33.6	0.325	-9.000	-9.000	-999.	451.	91.8	0.2160	0.52	1.00	3.60	276.0	15.0	292.2	2.0	0	0.00	74.	1003.	3	NAD-SFC	NoSubs
7	8	6	218	23	-35.9	0.347	-9.000	-9.000	-999.	490.	104.0	0.2720	0.52	1.00	3.60	304.0	15.0	291.5	2.0	0	0.00	77.	1003.	3	NAD-SFC	NoSubs
7	8	6	218	24	-36.0	0.347	-9.000	-9.000	-999.	490.	103.7	0.2720	0.52	1.00	3.60	308.0	15.0	290.8	2.0	0	0.00	81.	1003.	3	NAD-SFC	NoSubs
7	8	7	219	1	-30.9	0.297	-9.000	-9.000	-999.	389.	75.6	0.2720	0.52	1.00	3.10	321.0	15.0	289.9	2.0	0	0.00	83.	1004.	3	NAD-SFC	NoSubs
7	8	7	219	2	-25.6	0.252	-9.000	-9.000	-999.	304.	55.7	0.2930	0.52	1.00	2.60	342.0	15.0	289.2	2.0	0	0.00	85.	1004.	3	NAD-SFC	NoSubs
7	8	7	219	3	-25.6	0.252	-9.000	-9.000	-999.	303.	55.6	0.2930	0.52	1.00	2.60	341.0	15.0	288.8	2.0	0	0.00	86.	1004.	3	NAD-SFC	NoSubs

7	8	7	219	4	-16.5	0.200	-9.000	-9.000	-999.	215.	43.4	0.2930	0.52	1.00	2.10	341.0	15.0	288.2	2.0	0	0.00	87.	1004.	3	NAD-SFC	NoSubs
7	8	7	219	5	-8.2	0.140	-9.000	-9.000	-999.	126.	29.7	0.2930	0.52	1.00	1.50	358.0	15.0	287.8	2.0	0	0.00	88.	1004.	3	NAD-SFC	NoSubs
7	8	7	219	6	-3.6	0.099	-9.000	-9.000	-999.	75.	23.9	0.2940	0.52	0.62	1.00	11.0	15.0	287.5	2.0	0	0.00	88.	1005.	3	NAD-SFC	NoSubs
7	8	7	219	7	22.6	-9.000	-9.000	-9.000	225.	-999.	-99999.0	0.2235	0.52	0.32	0.00	0.0	15.0	288.4	2.0	0	0.00	78.	1005.	3	NAD-SFC	NoSubs
7	8	7	219	8	69.3	-9.000	-9.000	-9.000	388.	-999.	-99999.0	0.2235	0.52	0.23	0.00	0.0	15.0	289.8	2.0	0	0.00	71.	1005.	3	NAD-SFC	NoSubs
7	8	7	219	9	110.5	-9.000	-9.000	-9.000	507.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	291.4	2.0	0	0.00	65.	1005.	2	NAD-SFC	NoSubs
7	8	7	219	10	144.1	-9.000	-9.000	-9.000	630.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	293.1	2.0	0	0.00	60.	1005.	2	NAD-SFC	NoSubs
7	8	7	219	11	167.7	-9.000	-9.000	-9.000	761.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.9	2.0	0	0.00	55.	1004.	2	NAD-SFC	NoSubs
7	8	7	219	12	179.9	-9.000	-9.000	-9.000	885.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.2	2.0	0	0.00	50.	1003.	2	NAD-SFC	NoSubs
7	8	7	219	13	181.0	-9.000	-9.000	-9.000	987.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.5	2.0	0	0.00	47.	1003.	2	NAD-SFC	NoSubs
7	8	7	219	14	171.1	-9.000	-9.000	-9.000	1050.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.6	2.0	0	0.00	43.	1002.	2	NAD-SFC	NoSubs
7	8	7	219	15	149.7	-9.000	-9.000	-9.000	1102.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.4	2.0	0	0.00	41.	1001.	2	NAD-SFC	NoSubs
7	8	7	219	16	117.9	0.227	1.555	0.012	1141.	259.	-8.8	0.2940	0.52	0.20	1.50	6.0	15.0	299.8	2.0	0	0.00	39.	1001.	2	NAD-SFC	NoSubs
7	8	7	219	17	77.2	0.319	1.360	0.012	1166.	432.	-37.5	0.2940	0.52	0.22	2.60	18.0	15.0	299.6	2.0	0	0.00	41.	1001.	2	NAD-SFC	NoSubs
7	8	7	219	18	31.7	0.298	1.014	0.012	1175.	391.	-74.8	0.2940	0.52	0.30	2.60	21.0	15.0	299.1	2.0	0	0.00	50.	1001.	3	NAD-SFC	NoSubs
7	8	7	219	19	-24.6	0.358	-9.000	-9.000	-999.	514.	166.3	0.2940	0.52	0.56	3.60	26.0	15.0	297.8	2.0	0	0.00	55.	1002.	3	NAD-SFC	NoSubs
7	8	7	219	20	-36.1	0.355	-9.000	-9.000	-999.	508.	110.8	0.2940	0.52	1.00	3.60	16.0	15.0	296.5	2.0	0	0.00	59.	1002.	3	NAD-SFC	NoSubs
7	8	7	219	21	-30.3	0.297	-9.000	-9.000	-999.	390.	77.2	0.2720	0.52	1.00	3.10	318.0	15.0	295.4	2.0	0	0.00	62.	1002.	3	NAD-SFC	NoSubs
7	8	7	219	22	-38.3	0.373	-9.000	-9.000	-999.	546.	120.8	0.2160	0.52	1.00	4.10	281.0	15.0	293.2	2.0	0	0.00	71.	1003.	3	NAD-SFC	NoSubs
7	8	7	219	23	-33.6	0.325	-9.000	-9.000	-999.	447.	91.6	0.2160	0.52	1.00	3.60	276.0	15.0	291.8	2.0	0	0.00	76.	1003.	3	NAD-SFC	NoSubs
7	8	7	219	24	-28.8	0.278	-9.000	-9.000	-999.	353.	66.8	0.2160	0.52	1.00	3.10	296.0	15.0	291.2	2.0	0	0.00	78.	1003.	3	NAD-SFC	NoSubs
7	8	8	220	1	-36.0	0.347	-9.000	-9.000	-999.	490.	103.7	0.2720	0.52	1.00	3.60	317.0	15.0	290.8	2.0	0	0.00	82.	1003.	3	NAD-SFC	NoSubs
7	8	8	220	2	-31.5	0.303	-9.000	-9.000	-999.	402.	79.1	0.2930	0.52	1.00	3.10	340.0	15.0	290.1	2.0	0	0.00	86.	1003.	3	NAD-SFC	NoSubs
7	8	8	220	3	-25.9	0.251	-9.000	-9.000	-999.	304.	54.9	0.2930	0.52	1.00	2.60	347.0	15.0	289.4	2.0	0	0.00	88.	1003.	2	NAD-SFC	NoSubs
7	8	8	220	4	-26.0	0.252	-9.000	-9.000	-999.	303.	54.9	0.2940	0.52	1.00	2.60	4.0	15.0	288.8	2.0	0	0.00	90.	1003.	2	NAD-SFC	NoSubs
7	8	8	220	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	288.1	2.0	0	0.00	91.	1003.	2	NAD-SFC	NoSubs
7	8	8	220	6	-7.9	0.140	-9.000	-9.000	-999.	126.	31.1	0.2940	0.52	0.62	1.50	7.0	15.0	287.8	2.0	0	0.00	92.	1004.	2	NAD-SFC	NoSubs
7	8	8	220	7	20.9	-9.000	-9.000	-9.000	140.	-999.	-99999.0	0.2235	0.52	0.32	0.00	0.0	15.0	288.8	2.0	0	0.00	82.	1004.	2	NAD-SFC	NoSubs
7	8	8	220	8	68.3	0.107	0.805	0.007	273.	84.	-1.6	0.2930	0.52	0.23	0.50	349.0	15.0	290.6	2.0	0	0.00	73.	1004.	2	NAD-SFC	NoSubs
7	8	8	220	9	110.4	-9.000	-9.000	-9.000	411.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	292.5	2.0	0	0.00	66.	1004.	2	NAD-SFC	NoSubs
7	8	8	220	10	144.1	-9.000	-9.000	-9.000	617.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.2	2.0	0	0.00	61.	1003.	2	NAD-SFC	NoSubs
7	8	8	220	11	167.7	-9.000	-9.000	-9.000	776.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.9	2.0	0	0.00	55.	1003.	2	NAD-SFC	NoSubs
7	8	8	220	12	180.1	-9.000	-9.000	-9.000	914.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.8	2.0	0	0.00	48.	1002.	2	NAD-SFC	NoSubs
7	8	8	220	13	181.3	-9.000	-9.000	-9.000	1005.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.1	2.0	0	0.00	44.	1001.	2	NAD-SFC	NoSubs
7	8	8	220	14	171.3	-9.000	-9.000	-9.000	1060.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.1	2.0	0	0.00	41.	1001.	2	NAD-SFC	NoSubs
7	8	8	220	15	149.8	0.180	1.668	0.013	1106.	184.	-3.5	0.2940	0.52	0.19	1.00	21.0	15.0	300.8	2.0	0	0.00	38.	1000.	2	NAD-SFC	NoSubs
7	8	8	220	16	118.2	0.175	1.559	0.013	1143.	176.	-4.1	0.2940	0.52	0.20	1.00	22.0	15.0	301.8	2.0	0	0.00	42.	999.	2	NAD-SFC	NoSubs
7	8	8	220	17	77.5	0.208	1.363	0.013	1165.	228.	-10.4	0.2470	0.52	0.22	1.50	31.0	15.0	301.8	2.0	0	0.00	43.	999.	2	NAD-SFC	NoSubs
7	8	8	220	18	32.2	0.243	1.019	0.013	1173.	288.	-40.0	0.2470	0.52	0.31	2.10	38.0	15.0	301.8	2.0	0	0.00	49.	1000.	3	NAD-SFC	NoSubs
7	8	8	220	19	-12.9	0.199	-9.000	-9.000	-999.	213.	54.2	0.2720	0.52	0.57	2.10	318.0	15.0	300.8	2.0	0	0.00	52.	1000.	3	NAD-SFC	NoSubs
7	8	8	220	20	-47.4	0.468	-9.000	-9.000	-999.	768.	192.6	0.2160	0.52	1.00	5.10	270.0	15.0	296.8	2.0	0	0.00	64.	1001.	3	NAD-SFC	NoSubs
7	8	8	220	21	-51.1	0.498	-9.000	-9.000	-999.	842.	215.5	0.1750	0.52	1.00	5.70	267.0	15.0	293.4	2.0	0	0.00	72.	1002.	3	NAD-SFC	NoSubs
7	8	8	220	22	-41.0	0.398	-9.000	-9.000	-999.	610.	137.2	0.1750	0.52	1.00	4.60	261.0	15.0	292.1	2.0	0	0.00	76.	1002.	3	NAD-SFC	NoSubs
7	8	8	220	23	-41.2	0.398	-9.000	-9.000	-999.	603.	136.7	0.1750	0.52	1.00	4.60	268.0	15.0	291.0	2.0	0	0.00	79.	1003.	3	NAD-SFC	NoSubs
7	8	8	220	24	-38.7	0.373	-9.000	-9.000	-999.	546.	119.5	0.2160	0.52	1.00	4.10	278.0	15.0	290.1	2.0	0	0.00	82.	1003.	3	NAD-SFC	NoSubs
7	8	9	221	1	-21.8	0.231	-9.000	-9.000	-999.	280.	50.6	0.2160	0.52	1.00	2.60	287.0	15.0	289.5	2.0	0	0.00	82.	1003.	4	NAD-SFC	NoSubs
7	8	9	221	2	-7.9	0.137	-9.000	-9.000	-999.	126.	29.0	0.2720	0.52	1.00	1.50	302.0	15.0	289.2	2.0	0	0.00	82.	1003.	3	NAD-SFC	NoSubs
7	8	9	221	3	-7.9	0.137	-9.000	-9.000	-999.	121.	29.0	0.2720	0.52	1.00	1.50	315.0	15.0	288.9	2.0	0	0.00	81.	1003.	3	NAD-SFC	NoSubs
7	8	9	221	4	-3.9	0.100	-9.000	-9.000	-999.	76.	23.3	0.2720	0.52	1.00	1.00	311.0	15.0	288.8	2.0	0	0.00	80.	1003.	3	NAD-SFC	NoSubs
7	8	9	221	5	-3.9	0.100	-9.000	-9.000	-999.	76.	23.3	0.2720	0.52	1.00	1.00	318.0	15.0	288.4	2.0	0	0.00	81.	1003.	3	NAD-SFC	NoSubs
7	8	9	221	6	-1.5	0.081	-9.000	-9.000	-999.	55.	31.1	0.2930	0.52	0.63	0.50	334.0	15.0	288.2	2.0	0	0.00	81.	1004.	2	NAD-SFC	NoSubs
7	8	9	221	7	20.6	0.186	0.431	0.008	139.	192.	-27.9	0.2720	0.52	0.32	1.50	323.0	15.0	289.4	2.0	0	0.00	74.	1004.	2	NAD-SFC	NoSubs
7	8	9	221	8	68.0	-9.000	-9.000	-9.000	297.	-999.	-99999.0	0.2235	0.52	0.23	0.00	0.0	15.0	291.1	2.0	0	0.00	70.	1004.	2	NAD-SFC	NoSubs
7	8	9	221	9	110.1	-9.000	-9.000	-9.000	460.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	292.6	2.0	0	0.00	67.	1004.	2	NAD-SFC	NoSubs
7	8	9	221	10	143.8	-9.000	-9.000	-9.000	609.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.5	2.0	0	0.00	63.	1003.	2	NAD-SFC	NoSubs
7	8	9	221	11	167.5	-9.000	-9.000	-9.000	737.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.2	2.0	0	0.00	59.	1003.	2	NAD-SFC	NoSubs
7	8	9	221	12	179.9	-9.000	-9.000	-9.000	851.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.0	2.0	0	0.00	54.	1002.	2	NAD-SFC	NoSubs
7	8	9	221	13	181.2	-9.000	-9.000	-9.000	952.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.6	2.0	0	0.00	49.	1001.	2	NAD-SFC	NoSubs
7	8	9	221	14	171.3	0.122	1.696	0.014	1017.	102.	-1.0	0.2930	0.52	0.19	0.50	331.0	15.0	301.0	2.0	0	0.00	42.	1000.	2	NAD-SFC	NoSubs
7	8	9	221	15	149.8	0.180	1.646	0.014	1064.	184.	-3.5	0.2930	0.52	0.19	1.00	355.0	15.0	301.8	2.0	0	0.00	38.	1000.	2	NAD-SFC	NoSubs
7	8	9	221	16	117.9	0.227	1.537	0.014	1100.	259.	-8.8	0.2940	0.52	0.20	1.50	14.0	15.0	302.2	2.0	0	0.00	37.	1000.	2	NAD-SFC	NoSubs
7	8	9	221	17	77.1	0.273	1.343	0.014	1122.	342.	-23.5	0.2940	0.52	0.23	2.10	20.0	15.0	302.1	2.0	0	0.00	38.	1000.	2	NAD-SFC	NoSubs
7	8	9	221	18	30.1	0.297	0.985	0.014	1130.	389.	-77.7	0.2940	0.52	0.31	2.60	17.0	15.0	301.5	2.0	0	0.00	47.	1000.	2	NAD-SFC	NoSubs
7	8	9	221	19	-25.8	0.340	-9.000	-9.000	-999.	475.	135.2	0.2470	0.52	0.58	3.60	33.0	15.0	300.2	2.0	0	0.00	51.	1000.	2	NAD-SFC	NoSubs
7	8	9	221	20	-25.2	0.252	-9.000	-9.000	-999.	308.	56.8	0.2940	0.52	1.00	2.60	17.0	15.0	299.0	2.0	0	0.00	54.	1001.	3	NAD-SFC	NoSubs
7	8	9	221	21	-33.0	0.326	-9.000	-9.000	-999.	446.	93.4	0.2160	0.52	1.00	3.60	279.0	15.0	297.2	2.0	0	0.00	61.	1001.	3	NAD-SFC	NoSubs
7	8	9	221	22	-44.1	0.420	-9.000	-9.000	-999.	653.	149.8	0.2160	0.52	1.00	4.60	282.0	15.0	294.0	2.0	0	0.00	74.	1001.	2	NAD-SFC	NoSubs
7	8	9	221	23	-34.3	0.325	-9.000	-9.000	-999.	451.	89.5	0.2160	0.52	1.00	3.60	284.0	15.0	292.8	2.0	0	0.00	78.	1002.	2	NAD-SFC	NoSubs
7	8	9	221	24	-22.3	0.231	-9.000	-9.000	-999.	270.	49.0	0.2160	0.52	1.00	2.60	288.0	15.0	292.4	2.0	0	0.00	79.	1002.	2	NAD-SFC	NoSubs
7	8	10	222	1	-29.4	0.278	-9.000	-9.000	-999.	352.	65.2	0.2160	0.52	1.00	3.10	295.0	15.0	292.1	2.0	0	0.00	80.	1002.	2	NAD-SFC	NoSubs
7	8	10	222	2	-29.5	0.278	-9.000	-9.000	-999.	352.	65.2	0.2160	0.52	1.00	3.10	292.0	15.0	291.8	2.0	0	0.00	82.	1002.	2	NAD-SFC	NoSubs
7	8	10	222	3	-29.5	0.278	-9.000	-9.000	-999.	352.	65.0	0.2160	0.52	1.00	3.10	297.0	15.0	291.2	2.0	0	0.00	85.	1003.	2	NAD-SFC	NoSubs
7	8	10	222	4	-24.9	0.246	-9.000	-9.000	-999.	293.	53.4	0.2720	0.52	1.00	2.60	303.0	15.0	290.8	2.0	0	0.00	87.	1003.	2	NAD-SFC	NoSubs
7	8	10	222	5	-16.0	0.195	-9.000	-9.000	-999.	208.	41.7	0.2720	0.52	1.00	2.10	310.0	15.0	290.2	2.0	0	0.00	90.	1003.	2	NAD-SFC	NoSubs
7	8	10	222	6	-15.3	0.196	-9.000	-9.000	-999.	208.	43.9	0.2720	0.52	0.63	2.10	308.0	15.0	289.8	2.0	0	0.00	93.	1004.	2	NAD-SFC	NoSubs
7	8	10	222	7	20.6	0.189	0.415	0.009	124.	197.	-29.4	0.2930	0.52	0.33	1.50	342.0	15.0	291.1	2.0	0	0.00	89.	1004.	2	NAD-SFC	NoSubs
7	8	10	222	8	68.1	0.107	0.792	0.009	261.	86.	-1.6	0.2930	0.52	0.23	0.50	355.0	15.0	292.9	2.0	0	0.00	81.	1004.	2	NAD-SFC	NoSubs

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 7  8 10 222  9  110.4 -9.000 -9.000 -9.000  395. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 294.9  2.0    0  0.00   73. 1003.    2 NAD-SFC NoSubs
 7  8 10 222 10  144.4 -9.000 -9.000 -9.000  554. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 297.0  2.0    0  0.00   63. 1003.    2 NAD-SFC NoSubs
 7  8 10 222 11  168.2 -9.000 -9.000 -9.000  693. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 299.0  2.0    0  0.00   53. 1002.    2 NAD-SFC NoSubs
 7  8 10 222 12  180.7 -9.000 -9.000 -9.000  809. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 300.6  2.0    0  0.00   47. 1001.    2 NAD-SFC NoSubs
 7  8 10 222 13  181.9 -9.000 -9.000 -9.000  912. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 302.1  2.0    0  0.00   41. 1000.    2 NAD-SFC NoSubs
 7  8 10 222 14  171.9  0.184  1.685  0.011  993.  189.     -3.2 0.2930  0.52  0.19  1.00  340.0  15.0 303.1  2.0    0  0.00   37.  999.    2 NAD-SFC NoSubs
 7  8 10 222 15  150.3  0.233  1.640  0.011 1047.  270.     -7.5 0.2930  0.52  0.19  1.50  358.0  15.0 303.8  2.0    0  0.00   34.  999.    2 NAD-SFC NoSubs
 7  8 10 222 16  118.1  0.331  1.533  0.011 1087.  457.    -27.3 0.2940  0.52  0.20  2.60   13.0  15.0 303.8  2.0    0  0.00   35.  998.    2 NAD-SFC NoSubs
 7  8 10 222 17   76.9  0.319  1.339  0.011 1111.  432.    -37.5 0.2940  0.52  0.23  2.60   12.0  15.0 303.2  2.0    0  0.00   43.  998.    2 NAD-SFC NoSubs
 7  8 10 222 18   29.9  0.344  0.980  0.011 1120.  483.   -120.5 0.2940  0.52  0.31  3.10   21.0  15.0 302.6  2.0    0  0.00   48.  998.    2 NAD-SFC NoSubs
 7  8 10 222 19  -22.0  0.306 -9.000 -9.000 -999.  407.    116.2 0.2940  0.52  0.58  3.10   14.0  15.0 301.6  2.0    0  0.00   50.  999.    3 NAD-SFC NoSubs
 7  8 10 222 20  -24.1  0.246 -9.000 -9.000 -999.  295.     55.2 0.2720  0.52  1.00  2.60  303.0  15.0 300.4  2.0    0  0.00   53.  999.    3 NAD-SFC NoSubs
 7  8 10 222 21  -44.9  0.443 -9.000 -9.000 -999.  708.    173.0 0.1750  0.52  1.00  5.10  258.0  15.0 296.9  2.0    0  0.00   67. 1000.    3 NAD-SFC NoSubs
 7  8 10 222 22  -42.9  0.420 -9.000 -9.000 -999.  654.    154.2 0.2160  0.52  1.00  4.60  271.0  15.0 294.5  2.0    0  0.00   76. 1000.    3 NAD-SFC NoSubs
 7  8 10 222 23  -28.5  0.278 -9.000 -9.000 -999.  366.     67.4 0.2160  0.52  1.00  3.10  281.0  15.0 293.8  2.0    0  0.00   78. 1000.    3 NAD-SFC NoSubs
 7  8 10 222 24  -29.2  0.278 -9.000 -9.000 -999.  352.     65.6 0.2160  0.52  1.00  3.10  288.0  15.0 293.6  2.0    0  0.00   78. 1000.    2 NAD-SFC NoSubs
 7  8 11 223  1  -31.2  0.296 -9.000 -9.000 -999.  387.     74.5 0.2720  0.52  1.00  3.10  324.0  15.0 293.2  2.0    0  0.00   79. 1001.    2 NAD-SFC NoSubs
 7  8 11 223  2  -37.4  0.354 -9.000 -9.000 -999.  506.    106.2 0.2930  0.52  1.00  3.60  338.0  15.0 292.8  2.0    0  0.00   84. 1001.    2 NAD-SFC NoSubs
 7  8 11 223  3  -32.0  0.303 -9.000 -9.000 -999.  402.     77.5 0.2930  0.52  1.00  3.10  342.0  15.0 292.0  2.0    0  0.00   88. 1001.    2 NAD-SFC NoSubs
 7  8 11 223  4  -25.8  0.252 -9.000 -9.000 -999.  304.     55.1 0.2930  0.52  1.00  2.60  341.0  15.0 291.4  2.0    0  0.00   91. 1002.    2 NAD-SFC NoSubs
 7  8 11 223  5  -16.6  0.200 -9.000 -9.000 -999.  215.     43.0 0.2930  0.52  1.00  2.10  333.0  15.0 290.8  2.0    0  0.00   92. 1002.    2 NAD-SFC NoSubs
 7  8 11 223  6   -8.0  0.140 -9.000 -9.000 -999.  126.     30.7 0.2930  0.52  0.64  1.50  337.0  15.0 290.4  2.0    0  0.00   93. 1003.    2 NAD-SFC NoSubs
 7  8 11 223  7   20.1  0.244  0.436  0.009  148.  289.    -64.6 0.2930  0.52  0.33  2.10  355.0  15.0 291.1  2.0    0  0.00   83. 1003.    2 NAD-SFC NoSubs
 7  8 11 223  8   67.6  0.107  0.785  0.010  256.   98.     -1.6 0.2930  0.52  0.23  0.50  352.0  15.0 292.9  2.0    0  0.00   74. 1003.    2 NAD-SFC NoSubs
 7  8 11 223  9  109.9 -9.000 -9.000 -9.000  367. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 294.8  2.0    0  0.00   67. 1002.    2 NAD-SFC NoSubs
 7  8 11 223 10  143.9 -9.000 -9.000 -9.000  518. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 296.8  2.0    0  0.00   60. 1002.    2 NAD-SFC NoSubs
 7  8 11 223 11  167.7 -9.000 -9.000 -9.000  662. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 298.6  2.0    0  0.00   55. 1001.    2 NAD-SFC NoSubs
 7  8 11 223 12  180.1 -9.000 -9.000 -9.000  811. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 300.1  2.0    0  0.00   50. 1001.    2 NAD-SFC NoSubs
 7  8 11 223 13  181.2  0.120  1.682  0.011  939.  100.     -1.0 0.2720  0.52  0.19  0.50  317.0  15.0 301.5  2.0    0  0.00   46. 1000.    2 NAD-SFC NoSubs
 7  8 11 223 14  171.1  0.183  1.696  0.011 1017.  189.     -3.2 0.2930  0.52  0.19  1.00  354.0  15.0 302.5  2.0    0  0.00   42.  999.    2 NAD-SFC NoSubs
 7  8 11 223 15  149.5  0.233  1.649  0.011 1070.  269.     -7.5 0.2930  0.52  0.19  1.50  359.0  15.0 303.1  2.0    0  0.00   41.  999.    2 NAD-SFC NoSubs
 7  8 11 223 16  117.2 -9.000 -9.000 -9.000 1110. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 303.2  2.0    0  0.00   41.  999.    2 NAD-SFC NoSubs
 7  8 11 223 17   76.1  0.319  1.344  0.011 1135.  432.    -37.9 0.2940  0.52  0.23  2.60    8.0  15.0 303.0  2.0    0  0.00   47.  998.    2 NAD-SFC NoSubs
 7  8 11 223 18   29.1  0.343  0.977  0.011 1143.  482.   -123.6 0.2940  0.52  0.31  3.10    9.0  15.0 302.4  2.0    0  0.00   54.  999.    2 NAD-SFC NoSubs
 7  8 11 223 19  -28.5  0.357 -9.000 -9.000 -999.  511.    141.9 0.2940  0.52  0.59  3.60    6.0  15.0 301.2  2.0    0  0.00   56.  999.    2 NAD-SFC NoSubs
 7  8 11 223 20  -31.1  0.303 -9.000 -9.000 -999.  402.     79.8 0.2930  0.52  1.00  3.10  359.0  15.0 300.2  2.0    0  0.00   58.  999.    2 NAD-SFC NoSubs
 7  8 11 223 21  -30.6  0.297 -9.000 -9.000 -999.  388.     76.1 0.2720  0.52  1.00  3.10  301.0  15.0 299.0  2.0    0  0.00   61.  999.    2 NAD-SFC NoSubs
 7  8 11 223 22  -38.8  0.373 -9.000 -9.000 -999.  546.    118.9 0.2160  0.52  1.00  4.10  278.0  15.0 296.4  2.0    0  0.00   68. 1000.    2 NAD-SFC NoSubs
 7  8 11 223 23  -34.0  0.325 -9.000 -9.000 -999.  447.     90.3 0.2160  0.52  1.00  3.60  296.0  15.0 295.1  2.0    0  0.00   71. 1000.    2 NAD-SFC NoSubs
 7  8 11 223 24  -36.3  0.347 -9.000 -9.000 -999.  490.    102.3 0.2720  0.52  1.00  3.60  313.0  15.0 294.4  2.0    0  0.00   75. 1000.    2 NAD-SFC NoSubs
 7  8 12 224  1  -31.9  0.303 -9.000 -9.000 -999.  401.     78.0 0.2930  0.52  1.00  3.10  333.0  15.0 293.8  2.0    0  0.00   79. 1001.    2 NAD-SFC NoSubs
 7  8 12 224  2  -32.0  0.303 -9.000 -9.000 -999.  400.     77.7 0.2930  0.52  1.00  3.10  348.0  15.0 292.8  2.0    0  0.00   84. 1001.    2 NAD-SFC NoSubs
 7  8 12 224  3  -25.7  0.252 -9.000 -9.000 -999.  304.     55.2 0.2930  0.52  1.00  2.60  347.0  15.0 292.1  2.0    0  0.00   86. 1001.    2 NAD-SFC NoSubs
 7  8 12 224  4  -16.5  0.200 -9.000 -9.000 -999.  215.     43.1 0.2930  0.52  1.00  2.10  349.0  15.0 291.5  2.0    0  0.00   87. 1001.    2 NAD-SFC NoSubs
 7  8 12 224  5   -4.0  0.102 -9.000 -9.000 -999.   83.     23.6 0.2930  0.52  1.00  1.00  337.0  15.0 291.1  2.0    0  0.00   88. 1002.    2 NAD-SFC NoSubs
 7  8 12 224  6   -1.5  0.082 -9.000 -9.000 -999.   56.     31.3 0.2930  0.52  0.65  0.50  336.0  15.0 290.9  2.0    0  0.00   88. 1002.    2 NAD-SFC NoSubs
 7  8 12 224  7   19.5  0.141  0.429  0.012  144.  128.    -12.9 0.2930  0.52  0.33  1.00  349.0  15.0 291.0  2.0    0  0.00   87. 1002.    2 NAD-SFC NoSubs
 7  8 12 224  8   66.7  0.163  0.768  0.011  243.  158.     -5.8 0.2930  0.52  0.23  1.00  346.0  15.0 291.6  2.0    0  0.00   80. 1003.    2 NAD-SFC NoSubs
 7  8 12 224  9  109.0  0.114  0.996  0.009  324.   93.     -1.2 0.2930  0.52  0.20  0.50  350.0  15.0 293.2  2.0    0  0.00   73. 1003.    2 NAD-SFC NoSubs
 7  8 12 224 10  143.1  0.117  1.207  0.007  439.   95.     -1.0 0.2720  0.52  0.19  0.50  324.0  15.0 295.6  2.0    0  0.00   63. 1002.    2 NAD-SFC NoSubs
 7  8 12 224 11  166.7  0.119  1.438  0.008  638.   99.     -1.0 0.2720  0.52  0.19  0.50  316.0  15.0 297.2  2.0    0  0.00   58. 1002.    2 NAD-SFC NoSubs
 7  8 12 224 12  179.2  0.184  1.587  0.010  797.  190.     -3.1 0.2930  0.52  0.19  1.00  336.0  15.0 299.1  2.0    0  0.00   53. 1001.    2 NAD-SFC NoSubs
 7  8 12 224 13  180.4  0.238  1.674  0.011  930.  279.     -6.7 0.2930  0.52  0.19  1.50  354.0  15.0 300.5  2.0    0  0.00   49. 1001.    2 NAD-SFC NoSubs
 7  8 12 224 14  170.1  0.295  1.691  0.012 1015.  385.    -13.5 0.2930  0.52  0.19  2.10  349.0  15.0 301.4  2.0    0  0.00   47. 1000.    2 NAD-SFC NoSubs
 7  8 12 224 15  148.4  0.338  1.645  0.012 1072.  472.    -23.2 0.2930  0.52  0.19  2.60  356.0  15.0 302.0  2.0    0  0.00   46. 1000.    2 NAD-SFC NoSubs
 7  8 12 224 16  116.1 -9.000 -9.000 -9.000 1114. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 302.2  2.0    0  0.00   46. 1000.    2 NAD-SFC NoSubs
 7  8 12 224 17   75.0  0.272  1.338  0.012 1140.  341.    -24.0 0.2940  0.52  0.23  2.10    8.0  15.0 302.2  2.0    0  0.00   51. 1000.    2 NAD-SFC NoSubs
 7  8 12 224 18   28.1  0.250  0.967  0.012 1149.  301.    -49.8 0.2940  0.52  0.32  2.10   22.0  15.0 301.9  2.0    0  0.00   54. 1000.    2 NAD-SFC NoSubs
 7  8 12 224 19   -7.3  0.140 -9.000 -9.000 -999.  132.     33.7 0.2940  0.52  0.60  1.50   26.0  15.0 300.9  2.0    0  0.00   57. 1000.    2 NAD-SFC NoSubs
 7  8 12 224 20   -1.6  0.083 -9.000 -9.000 -999.   58.     31.7 0.2930  0.52  1.00  0.50  349.0  15.0 299.9  2.0    0  0.00   60. 1001.    2 NAD-SFC NoSubs
 7  8 12 224 21   -3.8  0.100 -9.000 -9.000 -999.   76.     23.3 0.2720  0.52  1.00  1.00  315.0  15.0 298.9  2.0    0  0.00   64. 1001.    2 NAD-SFC NoSubs
 7  8 12 224 22  -31.5  0.303 -9.000 -9.000 -999.  401.     79.1 0.2930  0.52  1.00  3.10  332.0  15.0 297.8  2.0    0  0.00   69. 1002.    2 NAD-SFC NoSubs
 7  8 12 224 23  -42.5  0.406 -9.000 -9.000 -999.  620.    140.8 0.2930  0.52  1.00  4.10  351.0  15.0 295.8  2.0    0  0.00   79. 1003.    2 NAD-SFC NoSubs
 7  8 12 224 24  -37.3  0.354 -9.000 -9.000 -999.  508.    106.8 0.2930  0.52  1.00  3.60  352.0  15.0 294.1  2.0    0  0.00   83. 1003.    2 NAD-SFC NoSubs
 7  8 13 225  1  -32.0  0.303 -9.000 -9.000 -999.  402.     77.8 0.2930  0.52  1.00  3.10  352.0  15.0 293.1  2.0    0  0.00   84. 1003.    2 NAD-SFC NoSubs
 7  8 13 225  2  -25.8  0.252 -9.000 -9.000 -999.  304.     55.2 0.2930  0.52  1.00  2.60  355.0  15.0 292.2  2.0    0  0.00   84. 1004.    2 NAD-SFC NoSubs
 7  8 13 225  3  -25.8  0.252 -9.000 -9.000 -999.  303.     55.2 0.2930  0.52  1.00  2.60  353.0  15.0 291.6  2.0    0  0.00   84. 1004.    2 NAD-SFC NoSubs
 7  8 13 225  4  -16.6  0.200 -9.000 -9.000 -999.  215.     43.0 0.2930  0.52  1.00  2.10  355.0  15.0 291.0  2.0    0  0.00   85. 1004.    2 NAD-SFC NoSubs
 7  8 13 225  5   -8.3  0.140 -9.000 -9.000 -999.  126.     29.5 0.2930  0.52  1.00  1.50  349.0  15.0 290.4  2.0    0  0.00   86. 1004.    2 NAD-SFC NoSubs
 7  8 13 225  6   -8.0  0.140 -9.000 -9.000 -999.  125.     30.4 0.2930  0.52  0.65  1.50  343.0  15.0 290.0  2.0    0  0.00   86. 1005.    2 NAD-SFC NoSubs
 7  8 13 225  7   18.9  0.243  0.422  0.010  142.  287.    -67.6 0.2930  0.52  0.33  2.10  346.0  15.0 290.8  2.0    0  0.00   76. 1005.    2 NAD-SFC NoSubs
 7  8 13 225  8   66.4  0.107  0.762  0.011  239.   98.     -1.6 0.2930  0.52  0.23  0.50  346.0  15.0 292.2  2.0    0  0.00   70. 1005.    2 NAD-SFC NoSubs
 7  8 13 225  9  109.1 -9.000 -9.000 -9.000  328. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 294.8  2.0    0  0.00   61. 1004.    2 NAD-SFC NoSubs
 7  8 13 225 10  143.0 -9.000 -9.000 -9.000  449. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 296.5  2.0    0  0.00   56. 1004.    2 NAD-SFC NoSubs
 7  8 13 225 11  166.9 -9.000 -9.000 -9.000  615. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 298.5  2.0    0  0.00   51. 1003.    2 NAD-SFC NoSubs
 7  8 13 225 12  179.3  0.120  1.559  0.011  755.  100.     -1.0 0.2720  0.52  0.19  0.50  326.0  15.0 300.2  2.0    0  0.00   47. 1002.    2 NAD-SFC NoSubs
 7  8 13 225 13  180.4  0.185  1.641  0.012  875.  190.     -3.1 0.2930  0.52  0.19  1.00  343.0  15.0 301.5  2.0    0  0.00   45. 1001.    2 NAD-SFC NoSubs
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7	8	13	225	14	170.2	0.237	1.667	0.013	974.	276.	-7.0	0.2930	0.52	0.19	1.50	336.0	15.0	302.5	2.0	0	0.00	43.	1001.	2	NAD-SFC	NoSubs
7	8	13	225	15	148.4	0.338	1.621	0.012	1025.	472.	-23.2	0.2930	0.52	0.19	2.60	342.0	15.0	303.2	2.0	0	0.00	42.	1000.	2	NAD-SFC	NoSubs
7	8	13	225	16	116.5	0.377	1.514	0.012	1063.	555.	-40.9	0.2930	0.52	0.20	3.10	340.0	15.0	304.2	2.0	0	0.00	37.	1000.	2	NAD-SFC	NoSubs
7	8	13	225	17	75.0	0.318	1.317	0.012	1086.	433.	-38.3	0.2930	0.52	0.23	2.60	338.0	15.0	303.6	2.0	0	0.00	46.	999.	2	NAD-SFC	NoSubs
7	8	13	225	18	27.9	0.296	0.949	0.012	1094.	386.	-82.6	0.2930	0.52	0.32	2.60	354.0	15.0	303.1	2.0	0	0.00	50.	1000.	2	NAD-SFC	NoSubs
7	8	13	225	19	-25.5	0.305	-9.000	-9.000	-999.	404.	98.7	0.2930	0.52	0.61	3.10	348.0	15.0	302.1	2.0	0	0.00	52.	1000.	2	NAD-SFC	NoSubs
7	8	13	225	20	-25.3	0.252	-9.000	-9.000	-999.	304.	56.2	0.2930	0.52	1.00	2.60	337.0	15.0	301.0	2.0	0	0.00	55.	1000.	2	NAD-SFC	NoSubs
7	8	13	225	21	-30.5	0.297	-9.000	-9.000	-999.	388.	76.3	0.2720	0.52	1.00	3.10	323.0	15.0	299.9	2.0	0	0.00	58.	1000.	2	NAD-SFC	NoSubs
7	8	13	225	22	-41.1	0.397	-9.000	-9.000	-999.	601.	136.1	0.2720	0.52	1.00	4.10	320.0	15.0	298.5	2.0	0	0.00	61.	1001.	2	NAD-SFC	NoSubs
7	8	13	225	23	-41.3	0.397	-9.000	-9.000	-999.	601.	135.2	0.2720	0.52	1.00	4.10	319.0	15.0	296.6	2.0	0	0.00	69.	1001.	2	NAD-SFC	NoSubs
7	8	13	225	24	-37.0	0.354	-9.000	-9.000	-999.	508.	107.3	0.2930	0.52	1.00	3.60	333.0	15.0	295.4	2.0	0	0.00	75.	1001.	2	NAD-SFC	NoSubs
7	8	14	226	1	-31.8	0.303	-9.000	-9.000	-999.	402.	78.2	0.2930	0.52	1.00	3.10	341.0	15.0	294.4	2.0	0	0.00	80.	1002.	2	NAD-SFC	NoSubs
7	8	14	226	2	-25.7	0.252	-9.000	-9.000	-999.	304.	55.5	0.2940	0.52	1.00	2.60	5.0	15.0	293.8	2.0	0	0.00	82.	1002.	2	NAD-SFC	NoSubs
7	8	14	226	3	-16.5	0.200	-9.000	-9.000	-999.	215.	43.2	0.2940	0.52	1.00	2.10	6.0	15.0	293.0	2.0	0	0.00	84.	1002.	2	NAD-SFC	NoSubs
7	8	14	226	4	-8.3	0.140	-9.000	-9.000	-999.	126.	29.6	0.2940	0.52	1.00	1.50	8.0	15.0	292.4	2.0	0	0.00	86.	1002.	2	NAD-SFC	NoSubs
7	8	14	226	5	-4.0	0.102	-9.000	-9.000	-999.	78.	23.6	0.2930	0.52	1.00	1.00	356.0	15.0	291.8	2.0	0	0.00	87.	1002.	2	NAD-SFC	NoSubs
7	8	14	226	6	-1.5	0.081	-9.000	-9.000	-999.	56.	31.3	0.2720	0.52	0.66	0.50	326.0	15.0	291.4	2.0	0	0.00	88.	1003.	2	NAD-SFC	NoSubs
7	8	14	226	7	18.8	0.188	0.417	0.012	138.	195.	-31.4	0.2930	0.52	0.33	1.50	350.0	15.0	292.0	2.0	0	0.00	80.	1003.	2	NAD-SFC	NoSubs
7	8	14	226	8	66.4	0.107	0.761	0.011	237.	86.	-1.6	0.2930	0.52	0.23	0.50	342.0	15.0	293.8	2.0	0	0.00	73.	1003.	2	NAD-SFC	NoSubs
7	8	14	226	9	109.0	-9.000	-9.000	-9.000	327.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	295.8	2.0	0	0.00	64.	1002.	2	NAD-SFC	NoSubs
7	8	14	226	10	143.0	-9.000	-9.000	-9.000	449.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.6	2.0	0	0.00	59.	1002.	2	NAD-SFC	NoSubs
7	8	14	226	11	166.9	-9.000	-9.000	-9.000	622.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.5	2.0	0	0.00	53.	1001.	2	NAD-SFC	NoSubs
7	8	14	226	12	179.3	0.122	1.567	0.011	766.	103.	-1.0	0.2930	0.52	0.19	0.50	330.0	15.0	301.1	2.0	0	0.00	49.	1000.	2	NAD-SFC	NoSubs
7	8	14	226	13	180.4	0.122	1.649	0.012	888.	103.	-1.0	0.2930	0.52	0.19	0.50	348.0	15.0	302.4	2.0	0	0.00	46.	1000.	2	NAD-SFC	NoSubs
7	8	14	226	14	170.1	0.183	1.673	0.013	983.	188.	-3.2	0.2930	0.52	0.19	1.00	348.0	15.0	303.4	2.0	0	0.00	44.	999.	2	NAD-SFC	NoSubs
7	8	14	226	15	148.3	0.233	1.626	0.013	1032.	269.	-7.5	0.2930	0.52	0.19	1.50	352.0	15.0	304.1	2.0	0	0.00	43.	998.	2	NAD-SFC	NoSubs
7	8	14	226	16	116.0	0.284	1.515	0.013	1069.	363.	-17.6	0.2930	0.52	0.20	2.10	347.0	15.0	304.4	2.0	0	0.00	42.	998.	2	NAD-SFC	NoSubs
7	8	14	226	17	74.6	-9.000	-9.000	-9.000	1091.	-999.	-99999.0	0.2235	0.52	0.23	0.00	0.0	15.0	304.2	2.0	0	0.00	47.	998.	2	NAD-SFC	NoSubs
7	8	14	226	18	27.4	0.296	0.946	0.012	1099.	386.	-83.9	0.2940	0.52	0.32	2.60	15.0	15.0	303.8	2.0	0	0.00	52.	998.	2	NAD-SFC	NoSubs
7	8	14	226	19	-26.1	0.305	-9.000	-9.000	-999.	404.	96.6	0.2940	0.52	0.62	3.10	6.0	15.0	302.5	2.0	0	0.00	55.	998.	2	NAD-SFC	NoSubs
7	8	14	226	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	301.2	2.0	0	0.00	58.	998.	2	NAD-SFC	NoSubs
7	8	14	226	21	-31.1	0.303	-9.000	-9.000	-999.	401.	79.8	0.2930	0.52	1.00	3.10	333.0	15.0	300.2	2.0	0	0.00	62.	998.	2	NAD-SFC	NoSubs
7	8	14	226	22	-35.7	0.347	-9.000	-9.000	-999.	490.	104.0	0.2720	0.52	1.00	3.60	308.0	15.0	299.1	2.0	0	0.00	66.	998.	2	NAD-SFC	NoSubs
7	8	14	226	23	-35.9	0.347	-9.000	-9.000	-999.	490.	103.5	0.2720	0.52	1.00	3.60	313.0	15.0	297.5	2.0	0	0.00	72.	998.	2	NAD-SFC	NoSubs
7	8	14	226	24	-36.8	0.354	-9.000	-9.000	-999.	506.	107.6	0.2930	0.52	1.00	3.60	335.0	15.0	296.2	2.0	0	0.00	77.	998.	2	NAD-SFC	NoSubs
7	8	15	227	1	-31.6	0.303	-9.000	-9.000	-999.	402.	78.4	0.2930	0.52	1.00	3.10	337.0	15.0	295.1	2.0	0	0.00	82.	998.	2	NAD-SFC	NoSubs
7	8	15	227	2	-31.7	0.303	-9.000	-9.000	-999.	400.	78.1	0.2930	0.52	1.00	3.10	357.0	15.0	294.2	2.0	0	0.00	84.	999.	2	NAD-SFC	NoSubs
7	8	15	227	3	-31.9	0.303	-9.000	-9.000	-999.	401.	78.0	0.2940	0.52	1.00	3.10	6.0	15.0	293.2	2.0	0	0.00	86.	999.	2	NAD-SFC	NoSubs
7	8	15	227	4	-31.9	0.303	-9.000	-9.000	-999.	401.	77.8	0.2940	0.52	1.00	3.10	15.0	15.0	292.6	2.0	0	0.00	87.	999.	2	NAD-SFC	NoSubs
7	8	15	227	5	-16.5	0.200	-9.000	-9.000	-999.	220.	43.2	0.2940	0.52	1.00	2.10	12.0	15.0	292.1	2.0	0	0.00	88.	999.	2	NAD-SFC	NoSubs
7	8	15	227	6	-8.0	0.140	-9.000	-9.000	-999.	126.	30.3	0.2930	0.52	0.67	1.50	348.0	15.0	291.8	2.0	0	0.00	89.	1000.	2	NAD-SFC	NoSubs
7	8	15	227	7	18.4	0.289	0.397	0.007	121.	372.	-116.4	0.2930	0.52	0.34	2.60	347.0	15.0	292.4	2.0	0	0.00	80.	1000.	2	NAD-SFC	NoSubs
7	8	15	227	8	66.0	0.212	0.726	0.009	206.	237.	-12.9	0.2930	0.52	0.23	1.50	339.0	15.0	294.0	2.0	0	0.00	73.	1000.	2	NAD-SFC	NoSubs
7	8	15	227	9	108.8	0.112	0.994	0.008	322.	95.	-1.2	0.2720	0.52	0.20	0.50	324.0	15.0	296.2	2.0	0	0.00	63.	1000.	2	NAD-SFC	NoSubs
7	8	15	227	10	142.8	-9.000	-9.000	-9.000	483.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.0	2.0	0	0.00	58.	999.	2	NAD-SFC	NoSubs
7	8	15	227	11	166.7	-9.000	-9.000	-9.000	685.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.9	2.0	0	0.00	53.	999.	2	NAD-SFC	NoSubs
7	8	15	227	12	179.1	-9.000	-9.000	-9.000	834.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.4	2.0	0	0.00	49.	998.	2	NAD-SFC	NoSubs
7	8	15	227	13	180.1	0.122	1.693	0.015	961.	103.	-1.0	0.2930	0.52	0.19	0.50	343.0	15.0	302.8	2.0	0	0.00	47.	998.	2	NAD-SFC	NoSubs
7	8	15	227	14	169.8	0.183	1.690	0.015	1013.	188.	-3.2	0.2930	0.52	0.19	1.00	347.0	15.0	303.8	2.0	0	0.00	45.	997.	2	NAD-SFC	NoSubs
7	8	15	227	15	148.0	0.233	1.635	0.015	1052.	269.	-7.5	0.2930	0.52	0.19	1.50	355.0	15.0	304.5	2.0	0	0.00	43.	996.	2	NAD-SFC	NoSubs
7	8	15	227	16	115.5	0.330	1.519	0.014	1080.	456.	-27.7	0.2940	0.52	0.20	2.60	2.0	15.0	304.8	2.0	0	0.00	43.	996.	2	NAD-SFC	NoSubs
7	8	15	227	17	73.9	-9.000	-9.000	-9.000	1098.	-999.	-99999.0	0.2235	0.52	0.23	0.00	0.0	15.0	304.4	2.0	0	0.00	50.	996.	2	NAD-SFC	NoSubs
7	8	15	227	18	26.6	-9.000	-9.000	-9.000	1103.	-999.	-99999.0	0.2235	0.52	0.32	0.00	0.0	15.0	303.8	2.0	0	0.00	56.	996.	2	NAD-SFC	NoSubs
7	8	15	227	19	-31.2	0.356	-9.000	-9.000	-999.	510.	128.7	0.2940	0.52	0.63	3.60	5.0	15.0	302.6	2.0	0	0.00	58.	997.	2	NAD-SFC	NoSubs
7	8	15	227	20	-36.2	0.355	-9.000	-9.000	-999.	507.	109.6	0.2930	0.52	1.00	3.60	344.0	15.0	301.5	2.0	0	0.00	61.	997.	2	NAD-SFC	NoSubs
7	8	15	227	21	-39.8	0.397	-9.000	-9.000	-999.	601.	140.4	0.2720	0.52	1.00	4.10	326.0	15.0	299.8	2.0	0	0.00	67.	998.	3	NAD-SFC	NoSubs
7	8	15	227	22	-35.7	0.355	-9.000	-9.000	-999.	508.	111.3	0.2930	0.52	1.00	3.60	334.0	15.0	298.2	2.0	0	0.00	72.	998.	3	NAD-SFC	NoSubs
7	8	15	227	23	-35.9	0.355	-9.000	-9.000	-999.	507.	110.8	0.2930	0.52	1.00	3.60	332.0	15.0	297.0	2.0	0	0.00	76.	999.	3	NAD-SFC	NoSubs
7	8	15	227	24	-36.0	0.355	-9.000	-9.000	-999.	507.	110.3	0.2930	0.52	1.00	3.60	338.0	15.0	295.8	2.0	0	0.00	79.	999.	3	NAD-SFC	NoSubs
7	8	16	228	1	-30.9	0.303	-9.000	-9.000	-999.	402.	80.4	0.2930	0.52	1.00	3.10	346.0	15.0	294.8	2.0	0	0.00	80.	999.	3	NAD-SFC	NoSubs
7	8	16	228	2	-25.3	0.252	-9.000	-9.000	-999.	304.	56.2	0.2930	0.52	1.00	2.60	359.0	15.0	294.1	2.0	0	0.00	80.	999.	3	NAD-SFC	NoSubs
7	8	16	228	3	-25.4	0.252	-9.000	-9.000	-999.	304.	56.2	0.2940	0.52	1.00	2.60	12.0	15.0	293.5	2.0	0	0.00	80.	999.	3	NAD-SFC	NoSubs
7	8	16	228	4	-16.3	0.200	-9.000	-9.000	-999.	216.	43.9	0.2940	0.52	1.00	2.10	12.0	15.0	292.8	2.0	0	0.00	82.	999.	3	NAD-SFC	NoSubs
7	8	16	228	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	292.2	2.0	0	0.00	83.	999.	2	NAD-SFC	NoSubs
7	8	16	228	6	-3.9	0.101	-9.000	-9.000	-999.	77.	23.7	0.2930	0.52	0.67	1.00	346.0	15.0	291.8	2.0	0	0.00	84.	1000.	2	NAD-SFC	NoSubs
7	8	16	228	7	17.8	0.242	0.434	0.010	163.	285.	-70.7	0.2930	0.52	0.34	2.10	359.0	15.0	292.2	2.0	0	0.00	78.	1000.	2	NAD-SFC	NoSubs
7	8	16	228	8	65.5	0.212	0.789	0.010	268.	234.	-13.0	0.2930	0.52	0.23	1.50	348.0	15.0	293.8	2.0	0	0.00	71.	1000.	2	NAD-SFC	NoSubs
7	8	16	228	9	108.1	0.173	1.033	0.008	364.	173.	-4.3	0.2930	0.52	0.20	1.00	330.0	15.0	295.6	2.0	0	0.00	65.	1000.	2	NAD-SFC	NoSubs
7	8	16	228	10	142.2	0.177	1.261	0.008	504.	178.	-3.5	0.2720	0.52	0.19	1.00	325.0	15.0	297.4	2.0	0	0.00	59.	1000.	2	NAD-SFC	NoSubs
7	8	16	228	11	166.0	0.180	1.441	0.008	644.	183.	-3.1	0.2720	0.52	0.19	1.00	322.0	15.0	299.2	2.0	0	0.00	54.	999.	2	NAD-SFC	NoSubs
7	8	16	228	12	178.3	0.238	1.588	0.010	802.	279.	-6.7	0.2930	0.52	0.19	1.50	342.0	15.0	300.6	2.0	0	0.00	51.	999.	2	NAD-SFC	NoSubs
7	8	16	228	13	179.2	0.297	1.678	0.012	940.	388.	-13.0	0.2930	0.52	0.19	2.10	355.0	15.0	301.9	2.0	0	0.00	48.	998.	2	NAD-SFC	NoSubs
7	8	16	228	14	168.7	0.342	1.690	0.013	1019.	481.	-21.2	0.2930	0.52	0.19	2.60	346.0	15.0	302.8	2.0	0	0.00	45.	997.	2	NAD-SFC	NoSubs
7	8	16	228	15	146.7	0.384	1.641	0.014	1072.	570.	-34.2	0.2930	0.52	0.19	3.10	354.0	15.0	303.2	2.0	0	0.00	45.	997.	2	NAD-SFC	NoSubs
7	8	16	228	16	114.0	0.422	1.527	0.014	1111.	657.	-58.5	0.2930	0.52	0.20	3.60	355.0	15.0	303.2	2.0	0	0.00	45.	997.	2	NAD-SFC	NoSubs
7	8	16	228	17	72.2	0.363	1.320	0.014	1135.	528.	-59.0	0.2940	0.52	0.23	3.10	3.0	15.0	302.6	2.0	0	0.00	53.	997.	2	NAD-SFC	NoSubs
7	8	16	228	18	24.7	0.387	0.926	0.014	1141.	578.	-208.4	0.2930	0.52	0.33	3.60	347.0	15.0	301.8	2.0	0	0.00	60.	997.	2	NAD-SFC	NoSubs

7	8	16	228	19	-32.5	0.355	-9.000	-9.000	-999.	509.	122.8	0.2930	0.52	0.64	3.60	355.0	15.0	300.1	2.0	0	0.00	64.	997.	2	NAD-SFC	NoSubs
7	8	16	228	20	-36.5	0.355	-9.000	-9.000	-999.	507.	108.5	0.2930	0.52	1.00	3.60	342.0	15.0	298.6	2.0	0	0.00	69.	998.	2	NAD-SFC	NoSubs
7	8	16	228	21	-35.9	0.347	-9.000	-9.000	-999.	490.	103.3	0.2720	0.52	1.00	3.60	329.0	15.0	297.2	2.0	0	0.00	72.	998.	2	NAD-SFC	NoSubs
7	8	16	228	22	-35.9	0.355	-9.000	-9.000	-999.	507.	110.6	0.2930	0.52	1.00	3.60	342.0	15.0	296.4	2.0	0	0.00	75.	999.	3	NAD-SFC	NoSubs
7	8	16	228	23	-37.0	0.354	-9.000	-9.000	-999.	506.	107.3	0.2930	0.52	1.00	3.60	344.0	15.0	295.4	2.0	0	0.00	77.	999.	2	NAD-SFC	NoSubs
7	8	16	228	24	-31.7	0.303	-9.000	-9.000	-999.	402.	78.2	0.2930	0.52	1.00	3.10	347.0	15.0	294.5	2.0	0	0.00	79.	999.	2	NAD-SFC	NoSubs
7	8	17	229	1	-25.6	0.252	-9.000	-9.000	-999.	304.	55.4	0.2930	0.52	1.00	2.60	348.0	15.0	293.8	2.0	0	0.00	81.	999.	2	NAD-SFC	NoSubs
7	8	17	229	2	-16.5	0.200	-9.000	-9.000	-999.	215.	43.2	0.2940	0.52	1.00	2.10	3.0	15.0	293.0	2.0	0	0.00	81.	999.	2	NAD-SFC	NoSubs
7	8	17	229	3	-16.5	0.200	-9.000	-9.000	-999.	214.	43.1	0.2930	0.52	1.00	2.10	360.0	15.0	292.2	2.0	0	0.00	82.	1000.	2	NAD-SFC	NoSubs
7	8	17	229	4	-8.2	0.140	-9.000	-9.000	-999.	126.	29.5	0.2930	0.52	1.00	1.50	346.0	15.0	291.8	2.0	0	0.00	83.	1000.	2	NAD-SFC	NoSubs
7	8	17	229	5	-4.0	0.102	-9.000	-9.000	-999.	79.	23.6	0.2930	0.52	1.00	1.00	338.0	15.0	291.2	2.0	0	0.00	84.	1000.	2	NAD-SFC	NoSubs
7	8	17	229	6	-3.9	0.101	-9.000	-9.000	-999.	77.	23.7	0.2930	0.52	0.68	1.00	337.0	15.0	290.8	2.0	0	0.00	85.	1000.	2	NAD-SFC	NoSubs
7	8	17	229	7	17.0	0.186	0.407	0.010	141.	192.	-33.7	0.2930	0.52	0.34	1.50	354.0	15.0	291.2	2.0	0	0.00	78.	1000.	2	NAD-SFC	NoSubs
7	8	17	229	8	64.7	0.106	0.769	0.009	251.	85.	-1.7	0.2930	0.52	0.23	0.50	339.0	15.0	292.9	2.0	0	0.00	72.	1000.	2	NAD-SFC	NoSubs
7	8	17	229	9	107.4	-9.000	-9.000	-9.000	361.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	294.9	2.0	0	0.00	63.	1000.	2	NAD-SFC	NoSubs
7	8	17	229	10	141.5	-9.000	-9.000	-9.000	531.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.8	2.0	0	0.00	58.	999.	2	NAD-SFC	NoSubs
7	8	17	229	11	165.3	-9.000	-9.000	-9.000	687.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.8	2.0	0	0.00	52.	999.	2	NAD-SFC	NoSubs
7	8	17	229	12	177.6	0.120	1.584	0.014	797.	100.	-1.0	0.2720	0.52	0.19	0.50	326.0	15.0	300.2	2.0	0	0.00	48.	998.	2	NAD-SFC	NoSubs
7	8	17	229	13	178.7	0.184	1.650	0.015	896.	190.	-3.1	0.2930	0.52	0.19	1.00	344.0	15.0	301.8	2.0	0	0.00	45.	997.	2	NAD-SFC	NoSubs
7	8	17	229	14	168.2	0.236	1.665	0.015	977.	276.	-7.0	0.2930	0.52	0.19	1.50	349.0	15.0	302.8	2.0	0	0.00	42.	996.	2	NAD-SFC	NoSubs
7	8	17	229	15	146.2	0.291	1.611	0.015	1017.	376.	-14.9	0.2930	0.52	0.19	2.10	355.0	15.0	303.4	2.0	0	0.00	41.	996.	2	NAD-SFC	NoSubs
7	8	17	229	16	113.5	0.376	1.495	0.015	1047.	553.	-41.6	0.2930	0.52	0.20	3.10	352.0	15.0	303.5	2.0	0	0.00	41.	996.	2	NAD-SFC	NoSubs
7	8	17	229	17	71.6	0.317	1.290	0.015	1065.	431.	-39.5	0.2930	0.52	0.23	2.60	352.0	15.0	303.0	2.0	0	0.00	50.	996.	2	NAD-SFC	NoSubs
7	8	17	229	18	24.1	0.340	0.899	0.015	1070.	476.	-144.7	0.2940	0.52	0.33	3.10	2.0	15.0	302.2	2.0	0	0.00	56.	996.	2	NAD-SFC	NoSubs
7	8	17	229	19	-33.0	0.355	-9.000	-9.000	-999.	508.	120.8	0.2930	0.52	0.65	3.60	348.0	15.0	300.8	2.0	0	0.00	60.	996.	2	NAD-SFC	NoSubs
7	8	17	229	20	-36.4	0.355	-9.000	-9.000	-999.	507.	108.7	0.2930	0.52	1.00	3.60	341.0	15.0	299.2	2.0	0	0.00	64.	997.	2	NAD-SFC	NoSubs
7	8	17	229	21	-34.9	0.347	-9.000	-9.000	-999.	491.	106.4	0.2720	0.52	1.00	3.60	329.0	15.0	297.8	2.0	0	0.00	67.	997.	3	NAD-SFC	NoSubs
7	8	17	229	22	-30.6	0.303	-9.000	-9.000	-999.	402.	81.0	0.2930	0.52	1.00	3.10	332.0	15.0	296.8	2.0	0	0.00	68.	997.	3	NAD-SFC	NoSubs
7	8	17	229	23	-30.1	0.297	-9.000	-9.000	-999.	388.	77.3	0.2720	0.52	1.00	3.10	327.0	15.0	295.9	2.0	0	0.00	70.	998.	3	NAD-SFC	NoSubs
7	8	17	229	24	-30.9	0.303	-9.000	-9.000	-999.	401.	80.5	0.2930	0.52	1.00	3.10	347.0	15.0	294.9	2.0	0	0.00	73.	998.	3	NAD-SFC	NoSubs
7	8	18	230	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	293.8	2.0	0	0.00	77.	999.	3	NAD-SFC	NoSubs
7	8	18	230	2	-31.1	0.304	-9.000	-9.000	-999.	401.	80.0	0.2940	0.52	1.00	3.10	15.0	15.0	292.8	2.0	0	0.00	79.	999.	3	NAD-SFC	NoSubs
7	8	18	230	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	292.1	2.0	0	0.00	81.	999.	3	NAD-SFC	NoSubs
7	8	18	230	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	291.4	2.0	0	0.00	83.	1000.	2	NAD-SFC	NoSubs
7	8	18	230	5	-16.6	0.200	-9.000	-9.000	-999.	215.	43.0	0.2940	0.52	1.00	2.10	11.0	15.0	290.8	2.0	0	0.00	85.	1000.	2	NAD-SFC	NoSubs
7	8	18	230	6	-0.1	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.69	0.00	0.0	15.0	290.2	2.0	0	0.00	88.	1000.	2	NAD-SFC	NoSubs
7	8	18	230	7	16.3	0.241	0.383	0.009	122.	283.	-76.0	0.2940	0.52	0.34	2.10	2.0	15.0	290.8	2.0	0	0.00	82.	1001.	2	NAD-SFC	NoSubs
7	8	18	230	8	64.1	0.106	0.746	0.010	231.	97.	-1.7	0.2930	0.52	0.24	0.50	344.0	15.0	292.5	2.0	0	0.00	75.	1000.	2	NAD-SFC	NoSubs
7	8	18	230	9	106.9	-9.000	-9.000	-9.000	351.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	294.8	2.0	0	0.00	64.	1000.	2	NAD-SFC	NoSubs
7	8	18	230	10	141.0	-9.000	-9.000	-9.000	508.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.6	2.0	0	0.00	58.	999.	2	NAD-SFC	NoSubs
7	8	18	230	11	164.8	-9.000	-9.000	-9.000	663.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.4	2.0	0	0.00	52.	999.	2	NAD-SFC	NoSubs
7	8	18	230	12	177.1	0.120	1.583	0.010	798.	100.	-1.0	0.2720	0.52	0.19	0.50	311.0	15.0	300.0	2.0	0	0.00	48.	998.	2	NAD-SFC	NoSubs
7	8	18	230	13	178.0	0.122	1.660	0.011	915.	103.	-1.0	0.2930	0.52	0.19	0.50	332.0	15.0	301.4	2.0	0	0.00	44.	997.	2	NAD-SFC	NoSubs
7	8	18	230	14	167.6	0.183	1.676	0.011	1001.	188.	-3.3	0.2930	0.52	0.19	1.00	340.0	15.0	302.5	2.0	0	0.00	41.	997.	2	NAD-SFC	NoSubs
7	8	18	230	15	145.4	0.232	1.629	0.011	1058.	268.	-7.6	0.2930	0.52	0.19	1.50	351.0	15.0	303.1	2.0	0	0.00	39.	996.	2	NAD-SFC	NoSubs
7	8	18	230	16	112.8	0.376	1.517	0.011	1100.	554.	-41.9	0.2940	0.52	0.20	3.10	1.0	15.0	303.8	2.0	0	0.00	35.	996.	2	NAD-SFC	NoSubs
7	8	18	230	17	70.9	0.317	1.310	0.011	1125.	431.	-39.9	0.2940	0.52	0.23	2.60	14.0	15.0	303.2	2.0	0	0.00	44.	995.	2	NAD-SFC	NoSubs
7	8	18	230	18	23.4	0.339	0.907	0.011	1132.	475.	-148.4	0.2940	0.52	0.33	3.10	13.0	15.0	302.5	2.0	0	0.00	49.	996.	2	NAD-SFC	NoSubs
7	8	18	230	19	-28.6	0.304	-9.000	-9.000	-999.	403.	87.0	0.2930	0.52	0.66	3.10	358.0	15.0	301.2	2.0	0	0.00	51.	996.	2	NAD-SFC	NoSubs
7	8	18	230	20	-31.0	0.303	-9.000	-9.000	-999.	401.	79.8	0.2930	0.52	1.00	3.10	345.0	15.0	300.2	2.0	0	0.00	54.	996.	2	NAD-SFC	NoSubs
7	8	18	230	21	-35.7	0.347	-9.000	-9.000	-999.	490.	104.0	0.2720	0.52	1.00	3.60	300.0	15.0	298.9	2.0	0	0.00	57.	997.	2	NAD-SFC	NoSubs
7	8	18	230	22	-38.6	0.373	-9.000	-9.000	-999.	546.	119.1	0.2160	0.52	1.00	4.10	295.0	15.0	296.8	2.0	0	0.00	66.	997.	2	NAD-SFC	NoSubs
7	8	18	230	23	-36.1	0.347	-9.000	-9.000	-999.	491.	102.8	0.2720	0.52	1.00	3.60	313.0	15.0	295.6	2.0	0	0.00	71.	998.	2	NAD-SFC	NoSubs
7	8	18	230	24	-31.7	0.303	-9.000	-9.000	-999.	402.	78.3	0.2930	0.52	1.00	3.10	334.0	15.0	294.8	2.0	0	0.00	75.	998.	2	NAD-SFC	NoSubs
7	8	19	231	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	293.6	2.0	0	0.00	81.	998.	2	NAD-SFC	NoSubs
7	8	19	231	2	-31.9	0.303	-9.000	-9.000	-999.	401.	77.8	0.2940	0.52	1.00	3.10	11.0	15.0	292.6	2.0	0	0.00	85.	999.	2	NAD-SFC	NoSubs
7	8	19	231	3	-25.7	0.252	-9.000	-9.000	-999.	304.	55.2	0.2940	0.52	1.00	2.60	15.0	15.0	291.8	2.0	0	0.00	87.	999.	2	NAD-SFC	NoSubs
7	8	19	231	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	291.1	2.0	0	0.00	88.	999.	3	NAD-SFC	NoSubs
7	8	19	231	5	-16.5	0.200	-9.000	-9.000	-999.	214.	43.0	0.2930	0.52	1.00	2.10	360.0	15.0	290.5	2.0	0	0.00	89.	1000.	2	NAD-SFC	NoSubs
7	8	19	231	6	-4.0	0.102	-9.000	-9.000	-999.	82.	23.7	0.2930	0.52	0.70	1.00	352.0	15.0	290.1	2.0	0	0.00	90.	1000.	2	NAD-SFC	NoSubs
7	8	19	231	7	15.8	0.240	0.391	0.009	135.	282.	-78.2	0.2940	0.52	0.34	2.10	1.0	15.0	290.6	2.0	0	0.00	81.	1001.	2	NAD-SFC	NoSubs
7	8	19	231	8	63.5	0.106	0.757	0.010	244.	96.	-1.7	0.2930	0.52	0.24	0.50	355.0	15.0	292.2	2.0	0	0.00	73.	1001.	2	NAD-SFC	NoSubs
7	8	19	231	9	106.4	-9.000	-9.000	-9.000	332.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	294.4	2.0	0	0.00	64.	1001.	2	NAD-SFC	NoSubs
7	8	19	231	10	140.4	-9.000	-9.000	-9.000	464.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.2	2.0	0	0.00	58.	1001.	2	NAD-SFC	NoSubs
7	8	19	231	11	164.1	-9.000	-9.000	-9.000	645.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.9	2.0	0	0.00	53.	1000.	2	NAD-SFC	NoSubs
7	8	19	231	12	176.4	-9.000	-9.000	-9.000	820.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.5	2.0	0	0.00	50.	1000.	2	NAD-SFC	NoSubs
7	8	19	231	13	177.3	-9.000	-9.000	-9.000	968.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.9	2.0	0	0.00	45.	999.	2	NAD-SFC	NoSubs
7	8	19	231	14	166.7	0.121	1.692	0.011	1038.	101.	-1.0	0.2930	0.52	0.19	0.50	342.0	15.0	301.9	2.0	0	0.00	41.	999.	2	NAD-SFC	NoSubs
7	8	19	231	15	144.5	0.180	1.642	0.011	1094.	183.	-3.6	0.2940	0.52	0.19	1.00	2.0	15.0	302.6	2.0	0	0.00	39.	999.	2	NAD-SFC	NoSubs
7	8	19	231	16	111.6	0.225	1.525	0.011	1134.	256.	-9.1	0.2940	0.52	0.20	1.50	13.0	15.0	302.8	2.0	0	0.00	39.	999.	2	NAD-SFC	NoSubs
7	8	19	231	17	69.8	0.270	1.314	0.011	1159.	337.	-25.2	0.2940	0.52	0.23	2.10	8.0	15.0	302.6	2.0	0	0.00	43.	999.	2	NAD-SFC	NoSubs
7	8	19	231	18	22.3	0.292	0.900	0.011	1165.	378.	-99.4	0.2940	0.52	0.34	2.60	19.0	15.0	302.0	2.0	0	0.00	50.	999.	2	NAD-SFC	NoSubs
7	8	19	231	19	-29.3	0.304	-9.000	-9.000	-999.	402.	85.5	0.2940	0.52	0.67	3.10	25.0	15.0	300.8	2.0	0	0.00	54.	999.	2	NAD-SFC	NoSubs
7	8	19	231	20	-25.4	0.252	-9.000	-9.000	-999.	305.	56.1	0.2940	0.52	1.00	2.60	17.0	15.0	299.4	2.0	0	0.00	57.	999.	2	NAD-SFC	NoSubs
7	8	19	231	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	298.2	2.0	0	0.00	61.	999.	2	NAD-SFC	NoSubs
7	8	19	231	22	-7.1	0.129	-9.000	-9.000	-999.	111.	26.7	0.2160	0.52	1.00	1.50	279.0	15.0	297.0	2.0	0	0.00	66.	1000.	2	NAD-SFC	NoSubs
7	8	19	231	23	-29.0	0.278	-9.000	-9.000	-999.	352.	66.1	0.2160	0.52	1.00	3.10	276.0	15.0	295.8	2.0	0	0.00	68.	1000.	2	NAD-SFC	NoSubs

7	8	19	231	24	-29.1	0.278	-9.000	-9.000	-999.	352.	65.9	0.2160	0.52	1.00	3.10	292.0	15.0	294.8	2.0	0	0.00	70.	1000.	2	NAD-SFC NoSubs
7	8	20	232	1	-29.2	0.278	-9.000	-9.000	-999.	352.	65.7	0.2160	0.52	1.00	3.10	299.0	15.0	294.0	2.0	0	0.00	70.	1000.	2	NAD-SFC NoSubs
7	8	20	232	2	-24.8	0.246	-9.000	-9.000	-999.	293.	53.7	0.2720	0.52	1.00	2.60	314.0	15.0	293.4	2.0	0	0.00	71.	1001.	2	NAD-SFC NoSubs
7	8	20	232	3	-15.9	0.195	-9.000	-9.000	-999.	208.	41.9	0.2720	0.52	1.00	2.10	316.0	15.0	292.9	2.0	0	0.00	72.	1001.	2	NAD-SFC NoSubs
7	8	20	232	4	-15.9	0.195	-9.000	-9.000	-999.	207.	41.8	0.2720	0.52	1.00	2.10	327.0	15.0	292.4	2.0	0	0.00	74.	1001.	2	NAD-SFC NoSubs
7	8	20	232	5	-8.3	0.140	-9.000	-9.000	-999.	126.	29.5	0.2930	0.52	1.00	1.50	331.0	15.0	291.9	2.0	0	0.00	77.	1002.	2	NAD-SFC NoSubs
7	8	20	232	6	-7.9	0.137	-9.000	-9.000	-999.	121.	29.0	0.2720	0.52	0.70	1.50	318.0	15.0	291.4	2.0	0	0.00	80.	1002.	2	NAD-SFC NoSubs
7	8	20	232	7	15.7	0.236	0.312	0.007	69.	275.	-74.4	0.2720	0.52	0.35	2.10	326.0	15.0	292.2	2.0	0	0.00	79.	1003.	2	NAD-SFC NoSubs
7	8	20	232	8	63.6	0.104	0.708	0.007	199.	93.	-1.6	0.2720	0.52	0.24	0.50	327.0	15.0	294.1	2.0	0	0.00	74.	1003.	2	NAD-SFC NoSubs
7	8	20	232	9	106.7	-9.000	-9.000	-9.000	363.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.6	2.0	0	0.00	62.	1003.	2	NAD-SFC NoSubs
7	8	20	232	10	140.9	-9.000	-9.000	-9.000	599.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.5	2.0	0	0.00	54.	1002.	2	NAD-SFC NoSubs
7	8	20	232	11	164.7	-9.000	-9.000	-9.000	744.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.2	2.0	0	0.00	48.	1002.	2	NAD-SFC NoSubs
7	8	20	232	12	176.9	-9.000	-9.000	-9.000	853.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.6	2.0	0	0.00	44.	1001.	2	NAD-SFC NoSubs
7	8	20	232	13	177.8	-9.000	-9.000	-9.000	951.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.0	2.0	0	0.00	39.	1000.	2	NAD-SFC NoSubs
7	8	20	232	14	167.3	-9.000	-9.000	-9.000	1022.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	304.2	2.0	0	0.00	35.	1000.	2	NAD-SFC NoSubs
7	8	20	232	15	144.9	0.180	1.635	0.009	1076.	183.	-3.6	0.2930	0.52	0.19	1.00	357.0	15.0	304.8	2.0	0	0.00	33.	999.	2	NAD-SFC NoSubs
7	8	20	232	16	112.0	0.225	1.519	0.009	1116.	257.	-9.1	0.2940	0.52	0.20	1.50	8.0	15.0	305.0	2.0	0	0.00	33.	999.	2	NAD-SFC NoSubs
7	8	20	232	17	69.8	0.270	1.306	0.009	1139.	337.	-25.1	0.2940	0.52	0.23	2.10	12.0	15.0	304.4	2.0	0	0.00	43.	999.	2	NAD-SFC NoSubs
7	8	20	232	18	22.2	0.339	0.893	0.009	1145.	473.	-155.8	0.2940	0.52	0.34	3.10	7.0	15.0	303.6	2.0	0	0.00	49.	999.	2	NAD-SFC NoSubs
7	8	20	232	19	-39.5	0.407	-9.000	-9.000	-999.	622.	151.9	0.2940	0.52	0.68	4.10	7.0	15.0	302.1	2.0	0	0.00	53.	1000.	2	NAD-SFC NoSubs
7	8	20	232	20	-31.1	0.304	-9.000	-9.000	-999.	408.	80.2	0.2940	0.52	1.00	3.10	9.0	15.0	301.0	2.0	0	0.00	56.	1000.	2	NAD-SFC NoSubs
7	8	20	232	21	-7.8	0.137	-9.000	-9.000	-999.	147.	29.1	0.2720	0.52	1.00	1.50	326.0	15.0	299.9	2.0	0	0.00	59.	1000.	2	NAD-SFC NoSubs
7	8	20	232	22	-7.9	0.137	-9.000	-9.000	-999.	122.	29.1	0.2720	0.52	1.00	1.50	305.0	15.0	298.8	2.0	0	0.00	64.	1000.	2	NAD-SFC NoSubs
7	8	20	232	23	-24.6	0.246	-9.000	-9.000	-999.	293.	54.2	0.2720	0.52	1.00	2.60	305.0	15.0	297.8	2.0	0	0.00	68.	1000.	2	NAD-SFC NoSubs
7	8	20	232	24	-30.8	0.297	-9.000	-9.000	-999.	388.	75.5	0.2720	0.52	1.00	3.10	311.0	15.0	296.9	2.0	0	0.00	73.	1000.	2	NAD-SFC NoSubs
7	8	21	233	1	-30.9	0.297	-9.000	-9.000	-999.	388.	75.3	0.2720	0.52	1.00	3.10	325.0	15.0	296.1	2.0	0	0.00	78.	1000.	2	NAD-SFC NoSubs
7	8	21	233	2	-36.2	0.347	-9.000	-9.000	-999.	490.	102.7	0.2720	0.52	1.00	3.60	329.0	15.0	295.5	2.0	0	0.00	84.	1000.	2	NAD-SFC NoSubs
7	8	21	233	3	-37.1	0.354	-9.000	-9.000	-999.	506.	106.9	0.2930	0.52	1.00	3.60	340.0	15.0	294.5	2.0	0	0.00	91.	1000.	2	NAD-SFC NoSubs
7	8	21	233	4	-31.8	0.303	-9.000	-9.000	-999.	402.	78.0	0.2930	0.52	1.00	3.10	351.0	15.0	293.8	2.0	0	0.00	96.	1000.	2	NAD-SFC NoSubs
7	8	21	233	5	-31.9	0.303	-9.000	-9.000	-999.	400.	77.8	0.2930	0.52	1.00	3.10	346.0	15.0	293.2	2.0	0	0.00	97.	1000.	2	NAD-SFC NoSubs
7	8	21	233	6	-25.5	0.252	-9.000	-9.000	-999.	304.	55.8	0.2930	0.52	0.71	2.60	355.0	15.0	293.0	2.0	0	0.00	97.	1001.	2	NAD-SFC NoSubs
7	8	21	233	7	15.8	0.333	0.366	0.007	110.	462.	-209.8	0.2940	0.52	0.35	3.10	1.0	15.0	293.9	2.0	0	0.00	87.	1001.	2	NAD-SFC NoSubs
7	8	21	233	8	63.6	-9.000	-9.000	-9.000	204.	-999.	-99999.0	0.2235	0.52	0.24	0.00	0.0	15.0	295.5	2.0	0	0.00	79.	1001.	2	NAD-SFC NoSubs
7	8	21	233	9	106.6	-9.000	-9.000	-9.000	348.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	297.5	2.0	0	0.00	71.	1000.	2	NAD-SFC NoSubs
7	8	21	233	10	140.7	-9.000	-9.000	-9.000	542.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.1	2.0	0	0.00	66.	1000.	2	NAD-SFC NoSubs
7	8	21	233	11	164.4	-9.000	-9.000	-9.000	711.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.6	2.0	0	0.00	61.	999.	2	NAD-SFC NoSubs
7	8	21	233	12	176.7	-9.000	-9.000	-9.000	833.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.2	2.0	0	0.00	55.	998.	2	NAD-SFC NoSubs
7	8	21	233	13	177.6	-9.000	-9.000	-9.000	941.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.8	2.0	0	0.00	50.	997.	2	NAD-SFC NoSubs
7	8	21	233	14	166.9	-9.000	-9.000	-9.000	1015.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	304.8	2.0	0	0.00	46.	997.	2	NAD-SFC NoSubs
7	8	21	233	15	144.6	0.119	1.632	0.010	1068.	98.	-1.0	0.2940	0.52	0.19	0.50	13.0	15.0	305.4	2.0	0	0.00	44.	996.	2	NAD-SFC NoSubs
7	8	21	233	16	111.6	0.217	1.515	0.010	1107.	242.	-8.1	0.2470	0.52	0.20	1.50	35.0	15.0	305.6	2.0	0	0.00	44.	996.	2	NAD-SFC NoSubs
7	8	21	233	17	69.5	0.206	1.303	0.010	1131.	224.	-11.1	0.2470	0.52	0.24	1.50	38.0	15.0	305.5	2.0	0	0.00	49.	996.	2	NAD-SFC NoSubs
7	8	21	233	18	23.4	0.238	0.908	0.009	1138.	278.	-50.9	0.2470	0.52	0.34	2.10	44.0	15.0	305.1	2.0	0	0.00	52.	996.	3	NAD-SFC NoSubs
7	8	21	233	19	-14.4	0.191	-9.000	-9.000	-999.	201.	42.9	0.2470	0.52	0.69	2.10	40.0	15.0	303.8	2.0	0	0.00	56.	996.	3	NAD-SFC NoSubs
7	8	21	233	20	-1.6	0.082	-9.000	-9.000	-999.	64.	31.4	0.2930	0.52	1.00	0.50	347.0	15.0	302.6	2.0	0	0.00	60.	996.	3	NAD-SFC NoSubs
7	8	21	233	21	-32.4	0.326	-9.000	-9.000	-999.	446.	94.7	0.2160	0.52	1.00	3.60	285.0	15.0	301.0	2.0	0	0.00	66.	996.	3	NAD-SFC NoSubs
7	8	21	233	22	-42.3	0.420	-9.000	-9.000	-999.	653.	155.9	0.2160	0.52	1.00	4.60	284.0	15.0	297.8	2.0	0	0.00	73.	997.	3	NAD-SFC NoSubs
7	8	21	233	23	-33.7	0.325	-9.000	-9.000	-999.	451.	90.8	0.2160	0.52	1.00	3.60	277.0	15.0	296.6	2.0	0	0.00	74.	997.	2	NAD-SFC NoSubs
7	8	21	233	24	-28.9	0.278	-9.000	-9.000	-999.	353.	66.2	0.2160	0.52	1.00	3.10	271.0	15.0	296.0	2.0	0	0.00	75.	996.	2	NAD-SFC NoSubs
7	8	22	234	1	-27.4	0.263	-9.000	-9.000	-999.	324.	59.2	0.1750	0.52	1.00	3.10	266.0	15.0	295.5	2.0	0	0.00	76.	996.	2	NAD-SFC NoSubs
7	8	22	234	2	-22.1	0.231	-9.000	-9.000	-999.	266.	49.3	0.2160	0.52	1.00	2.60	283.0	15.0	295.0	2.0	0	0.00	77.	996.	2	NAD-SFC NoSubs
7	8	22	234	3	-22.1	0.231	-9.000	-9.000	-999.	266.	49.3	0.2160	0.52	1.00	2.60	294.0	15.0	294.8	2.0	0	0.00	78.	996.	2	NAD-SFC NoSubs
7	8	22	234	4	-15.8	0.195	-9.000	-9.000	-999.	208.	42.0	0.2720	0.52	1.00	2.10	302.0	15.0	294.4	2.0	0	0.00	80.	996.	2	NAD-SFC NoSubs
7	8	22	234	5	-14.2	0.183	-9.000	-9.000	-999.	188.	38.4	0.2160	0.52	1.00	2.10	297.0	15.0	294.1	2.0	0	0.00	82.	996.	2	NAD-SFC NoSubs
7	8	22	234	6	-14.1	0.183	-9.000	-9.000	-999.	188.	38.6	0.2160	0.52	0.72	2.10	286.0	15.0	293.8	2.0	0	0.00	83.	996.	2	NAD-SFC NoSubs
7	8	22	234	7	15.5	0.236	0.364	0.009	111.	274.	-75.1	0.2720	0.52	0.35	2.10	313.0	15.0	294.5	2.0	0	0.00	81.	996.	2	NAD-SFC NoSubs
7	8	22	234	8	63.3	0.099	0.764	0.009	250.	90.	-1.4	0.2160	0.52	0.24	0.50	298.0	15.0	296.0	2.0	0	0.00	75.	996.	2	NAD-SFC NoSubs
7	8	22	234	9	106.3	-9.000	-9.000	-9.000	368.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	298.0	2.0	0	0.00	69.	996.	2	NAD-SFC NoSubs
7	8	22	234	10	140.5	-9.000	-9.000	-9.000	528.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.8	2.0	0	0.00	65.	995.	2	NAD-SFC NoSubs
7	8	22	234	11	164.3	-9.000	-9.000	-9.000	683.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.4	2.0	0	0.00	60.	994.	2	NAD-SFC NoSubs
7	8	22	234	12	176.6	-9.000	-9.000	-9.000	844.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.0	2.0	0	0.00	54.	994.	2	NAD-SFC NoSubs
7	8	22	234	13	177.5	-9.000	-9.000	-9.000	976.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	304.4	2.0	0	0.00	48.	993.	2	NAD-SFC NoSubs
7	8	22	234	14	166.8	0.119	1.692	0.013	1029.	99.	-1.0	0.2720	0.52	0.19	0.50	312.0	15.0	305.5	2.0	0	0.00	44.	992.	2	NAD-SFC NoSubs
7	8	22	234	15	144.4	0.180	1.635	0.013	1073.	183.	-3.6	0.2930	0.52	0.19	1.00	345.0	15.0	306.2	2.0	0	0.00	41.	992.	2	NAD-SFC NoSubs
7	8	22	234	16	111.8	0.225	1.517	0.013	1106.	257.	-9.1	0.2940	0.52	0.20	1.50	5.0	15.0	306.5	2.0	0	0.00	41.	992.	3	NAD-SFC NoSubs
7	8	22	234	17	70.0	0.214	1.306	0.013	1126.	238.	-12.4	0.2940	0.52	0.24	1.50	14.0	15.0	306.4	2.0	0	0.00	46.	992.	3	NAD-SFC NoSubs
7	8	22	234	18	23.1	0.247	0.904	0.013	1132.	294.	-57.4	0.2930	0.52	0.35	2.10	337.0	15.0	306.2	2.0	0	0.00	49.	992.	3	NAD-SFC NoSubs
7	8	22	234	19	-40.1	0.421	-9.000	-9.000	-999.	655.	164.5	0.2160	0.52	0.71	4.60	281.0	15.0	303.9	2.0	0	0.00	57.	993.	3	NAD-SFC NoSubs
7	8	22	234	20	-39.7	0.398	-9.000	-9.000	-999.	604.	140.7	0.1750	0.52	1.00	4.60	263.0	15.0	299.1	2.0	0	0.00	71.	993.	3	NAD-SFC NoSubs
7	8	22	234	21	-42.2	0.420	-9.000	-9.000	-999.	653.	155.6	0.2160	0.52	1.00	4.60	271.0	15.0	297.1	2.0	0	0.00	73.	993.	3	NAD-SFC NoSubs
7	8	22	234	22	-35.7	0.353	-9.000	-9.000	-999.	507.	109.5	0.1750	0.52	1.00	4.10	266.0	15.0	295.9	2.0	0	0.00	76.	994.	3	NAD-SFC NoSubs
7	8	22	234	23	-26.7	0.263	-9.000	-9.000	-999.	329.	60.8	0.1750	0.52	1.00	3.10	266.0	15.0	295.0	2.0	0	0.00	78.	994.	3	NAD-SFC NoSubs
7	8	22	234	24	-14.0	0.183	-9.000	-9.000	-999.	191.	39.0	0.2160	0.52	1.00	2.10	294.0	15.0	294.5	2.0	0	0.00	80.	994.	3	NAD-SFC NoSubs
7	8	23	235	1	-7.8	0.137	-9.000	-9.000	-999.	122.	29.2	0.2720	0.52	1.00	1.50	309.0	15.0	294.0	2.0	0	0.00	80.	994.	3	NAD-SFC NoSubs
7	8	23	235	2	-15.6	0.196	-9.000	-9.000	-999.	208.	42.6	0.2720	0.52	1.00	2.10	319.0	15.0	293.5	2.0	0	0.00	81.	994.	3	NAD-SFC NoSubs
7	8	23	235	3	-16.2	0.200	-9.000	-9.000	-999.	215.	43.9	0.2930	0.52	1.00	2.10	334.0	15.0	293.1	2.0	0	0.00	83.	994.	3	NAD-SFC NoSubs
7	8	23	235	4	-8.1	0.140	-9.000	-9.000	-999.	126.	30.0	0.2930	0.52	1.00	1.50	331.0	15.0	292.8	2.0	0	0.00	83.	994.	3	NAD-SFC NoSubs

7	8	23	235	5	-3.8	0.100	-9.000	-9.000	-999.	76.	23.3	0.2720	0.52	1.00	1.00	329.0	15.0	292.4	2.0	0	0.00	84.	994.	3	NAD-SFC	NoSubs
7	8	23	235	6	-1.6	0.082	-9.000	-9.000	-999.	56.	31.5	0.2720	0.52	0.73	0.50	322.0	15.0	292.2	2.0	0	0.00	84.	995.	3	NAD-SFC	NoSubs
7	8	23	235	7	15.8	0.268	0.374	0.009	117.	332.	-107.3	0.2160	0.52	0.35	2.60	283.0	15.0	293.2	2.0	0	0.00	77.	995.	3	NAD-SFC	NoSubs
7	8	23	235	8	63.3	0.198	0.720	0.009	209.	213.	-10.9	0.2160	0.52	0.24	1.50	282.0	15.0	294.9	2.0	0	0.00	71.	995.	3	NAD-SFC	NoSubs
7	8	23	235	9	105.4	0.106	1.019	0.009	356.	87.	-1.0	0.2160	0.52	0.20	0.50	286.0	15.0	296.8	2.0	0	0.00	64.	994.	2	NAD-SFC	NoSubs
7	8	23	235	10	139.5	-9.000	-9.000	-9.000	509.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.5	2.0	0	0.00	58.	994.	2	NAD-SFC	NoSubs
7	8	23	235	11	163.3	-9.000	-9.000	-9.000	651.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.2	2.0	0	0.00	53.	993.	2	NAD-SFC	NoSubs
7	8	23	235	12	175.6	-9.000	-9.000	-9.000	791.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.0	2.0	0	0.00	48.	992.	2	NAD-SFC	NoSubs
7	8	23	235	13	176.4	0.120	1.655	0.011	911.	100.	-1.0	0.2720	0.52	0.19	0.50	308.0	15.0	303.4	2.0	0	0.00	44.	992.	2	NAD-SFC	NoSubs
7	8	23	235	14	165.4	0.119	1.672	0.012	1000.	99.	-1.0	0.2720	0.52	0.19	0.50	321.0	15.0	304.2	2.0	0	0.00	41.	991.	2	NAD-SFC	NoSubs
7	8	23	235	15	142.9	0.177	1.622	0.012	1058.	178.	-3.4	0.2720	0.52	0.19	1.00	318.0	15.0	304.9	2.0	0	0.00	40.	991.	2	NAD-SFC	NoSubs
7	8	23	235	16	110.0	0.114	1.506	0.012	1100.	94.	-1.2	0.2940	0.52	0.20	0.50	4.0	15.0	305.6	2.0	0	0.00	36.	991.	2	NAD-SFC	NoSubs
7	8	23	235	17	67.8	0.164	1.292	0.012	1125.	159.	-5.7	0.2940	0.52	0.24	1.00	8.0	15.0	305.6	2.0	0	0.00	37.	991.	2	NAD-SFC	NoSubs
7	8	23	235	18	21.6	0.190	0.885	0.012	1132.	199.	-28.1	0.2930	0.52	0.35	1.50	352.0	15.0	305.2	2.0	0	0.00	42.	991.	3	NAD-SFC	NoSubs
7	8	23	235	19	-43.3	0.448	-9.000	-9.000	-999.	720.	184.1	0.2720	0.52	0.72	4.60	315.0	15.0	303.2	2.0	0	0.00	50.	992.	3	NAD-SFC	NoSubs
7	8	23	235	20	-38.2	0.373	-9.000	-9.000	-999.	550.	119.9	0.2160	0.52	1.00	4.10	280.0	15.0	298.6	2.0	0	0.00	67.	993.	2	NAD-SFC	NoSubs
7	8	23	235	21	-38.5	0.373	-9.000	-9.000	-999.	546.	118.9	0.2160	0.52	1.00	4.10	282.0	15.0	296.4	2.0	0	0.00	72.	993.	2	NAD-SFC	NoSubs
7	8	23	235	22	-28.9	0.278	-9.000	-9.000	-999.	357.	66.0	0.2160	0.52	1.00	3.10	295.0	15.0	295.4	2.0	0	0.00	73.	994.	2	NAD-SFC	NoSubs
7	8	23	235	23	-28.2	0.278	-9.000	-9.000	-999.	352.	67.7	0.2160	0.52	1.00	3.10	298.0	15.0	294.6	2.0	0	0.00	74.	994.	3	NAD-SFC	NoSubs
7	8	23	235	24	-30.8	0.303	-9.000	-9.000	-999.	401.	80.2	0.2930	0.52	1.00	3.10	335.0	15.0	294.0	2.0	0	0.00	74.	994.	3	NAD-SFC	NoSubs
7	8	24	236	1	-30.9	0.303	-9.000	-9.000	-999.	401.	80.0	0.2930	0.52	1.00	3.10	354.0	15.0	293.4	2.0	0	0.00	75.	995.	3	NAD-SFC	NoSubs
7	8	24	236	2	-36.2	0.355	-9.000	-9.000	-999.	507.	109.4	0.2940	0.52	1.00	3.60	15.0	15.0	292.9	2.0	0	0.00	77.	995.	3	NAD-SFC	NoSubs
7	8	24	236	3	-36.3	0.355	-9.000	-9.000	-999.	507.	109.2	0.2940	0.52	1.00	3.60	9.0	15.0	292.2	2.0	0	0.00	79.	995.	3	NAD-SFC	NoSubs
7	8	24	236	4	-36.4	0.355	-9.000	-9.000	-999.	507.	108.9	0.2940	0.52	1.00	3.60	7.0	15.0	291.6	2.0	0	0.00	81.	995.	3	NAD-SFC	NoSubs
7	8	24	236	5	-32.0	0.303	-9.000	-9.000	-999.	402.	77.4	0.2940	0.52	1.00	3.10	14.0	15.0	291.1	2.0	0	0.00	82.	995.	2	NAD-SFC	NoSubs
7	8	24	236	6	-31.9	0.303	-9.000	-9.000	-999.	401.	77.8	0.2940	0.52	0.73	3.10	22.0	15.0	290.9	2.0	0	0.00	83.	996.	2	NAD-SFC	NoSubs
7	8	24	236	7	13.7	0.238	0.326	0.011	90.	280.	-87.0	0.2930	0.52	0.35	2.10	347.0	15.0	292.4	2.0	0	0.00	74.	996.	2	NAD-SFC	NoSubs
7	8	24	236	8	61.6	0.162	0.693	0.012	191.	158.	-6.1	0.2930	0.52	0.24	1.00	340.0	15.0	294.2	2.0	0	0.00	67.	996.	2	NAD-SFC	NoSubs
7	8	24	236	9	104.8	-9.000	-9.000	-9.000	307.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.4	2.0	0	0.00	62.	996.	2	NAD-SFC	NoSubs
7	8	24	236	10	138.9	-9.000	-9.000	-9.000	427.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.2	2.0	0	0.00	57.	996.	2	NAD-SFC	NoSubs
7	8	24	236	11	162.8	-9.000	-9.000	-9.000	562.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.2	2.0	0	0.00	50.	996.	2	NAD-SFC	NoSubs
7	8	24	236	12	175.4	-9.000	-9.000	-9.000	687.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.5	2.0	0	0.00	42.	995.	2	NAD-SFC	NoSubs
7	8	24	236	13	176.2	-9.000	-9.000	-9.000	813.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	304.1	2.0	0	0.00	37.	994.	2	NAD-SFC	NoSubs
7	8	24	236	14	165.3	0.119	1.622	0.009	916.	99.	-1.0	0.2720	0.52	0.19	0.50	307.0	15.0	305.2	2.0	0	0.00	34.	994.	2	NAD-SFC	NoSubs
7	8	24	236	15	142.8	0.180	1.589	0.010	996.	183.	-3.6	0.2930	0.52	0.19	1.00	340.0	15.0	306.0	2.0	0	0.00	32.	993.	2	NAD-SFC	NoSubs
7	8	24	236	16	109.5	-9.000	-9.000	-9.000	1051.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	306.2	2.0	0	0.00	32.	993.	2	NAD-SFC	NoSubs
7	8	24	236	17	66.9	0.316	1.268	0.011	1082.	426.	-41.6	0.2940	0.52	0.24	2.60	20.0	15.0	305.6	2.0	0	0.00	42.	993.	2	NAD-SFC	NoSubs
7	8	24	236	18	19.1	0.384	0.836	0.011	1088.	570.	-262.6	0.2940	0.52	0.35	3.60	25.0	15.0	304.8	2.0	0	0.00	46.	994.	2	NAD-SFC	NoSubs
7	8	24	236	19	-40.7	0.406	-9.000	-9.000	-999.	621.	146.1	0.2930	0.52	0.73	4.10	344.0	15.0	303.6	2.0	0	0.00	49.	995.	2	NAD-SFC	NoSubs
7	8	24	236	20	-47.9	0.468	-9.000	-9.000	-999.	767.	189.5	0.2160	0.52	1.00	5.10	296.0	15.0	299.8	2.0	0	0.00	59.	996.	2	NAD-SFC	NoSubs
7	8	24	236	21	-43.5	0.420	-9.000	-9.000	-999.	655.	151.2	0.2160	0.52	1.00	4.60	279.0	15.0	296.6	2.0	0	0.00	66.	996.	2	NAD-SFC	NoSubs
7	8	24	236	22	-43.7	0.420	-9.000	-9.000	-999.	653.	150.5	0.2160	0.52	1.00	4.60	289.0	15.0	295.2	2.0	0	0.00	68.	997.	2	NAD-SFC	NoSubs
7	8	24	236	23	-41.5	0.397	-9.000	-9.000	-999.	601.	134.2	0.2720	0.52	1.00	4.10	308.0	15.0	294.4	2.0	0	0.00	71.	997.	2	NAD-SFC	NoSubs
7	8	24	236	24	-36.3	0.347	-9.000	-9.000	-999.	492.	102.1	0.2720	0.52	1.00	3.60	326.0	15.0	293.8	2.0	0	0.00	72.	997.	2	NAD-SFC	NoSubs
7	8	25	237	1	-37.2	0.354	-9.000	-9.000	-999.	506.	106.4	0.2930	0.52	1.00	3.60	350.0	15.0	293.2	2.0	0	0.00	74.	998.	2	NAD-SFC	NoSubs
7	8	25	237	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	292.8	2.0	0	0.00	75.	998.	2	NAD-SFC	NoSubs
7	8	25	237	3	-37.3	0.355	-9.000	-9.000	-999.	507.	106.3	0.2940	0.52	1.00	3.60	6.0	15.0	292.4	2.0	0	0.00	76.	998.	2	NAD-SFC	NoSubs
7	8	25	237	4	-32.0	0.303	-9.000	-9.000	-999.	402.	77.7	0.2940	0.52	1.00	3.10	16.0	15.0	292.2	2.0	0	0.00	76.	998.	2	NAD-SFC	NoSubs
7	8	25	237	5	-25.7	0.252	-9.000	-9.000	-999.	304.	55.3	0.2940	0.52	1.00	2.60	28.0	15.0	292.0	2.0	0	0.00	76.	999.	2	NAD-SFC	NoSubs
7	8	25	237	6	-23.6	0.239	-9.000	-9.000	-999.	281.	51.7	0.2470	0.52	0.74	2.60	45.0	15.0	292.0	2.0	0	0.00	75.	999.	2	NAD-SFC	NoSubs
7	8	25	237	7	13.5	0.238	0.292	0.009	66.	278.	-88.8	0.2940	0.52	0.36	2.10	20.0	15.0	293.2	2.0	0	0.00	68.	999.	2	NAD-SFC	NoSubs
7	8	25	237	8	61.5	-9.000	-9.000	-9.000	162.	-999.	-99999.0	0.2235	0.52	0.24	0.00	0.0	15.0	295.2	2.0	0	0.00	59.	1000.	2	NAD-SFC	NoSubs
7	8	25	237	9	104.7	0.113	0.940	0.009	283.	92.	-1.2	0.2930	0.52	0.20	0.50	353.0	15.0	297.4	2.0	0	0.00	53.	1000.	2	NAD-SFC	NoSubs
7	8	25	237	10	139.0	0.118	1.177	0.008	419.	97.	-1.1	0.2930	0.52	0.19	0.50	343.0	15.0	299.4	2.0	0	0.00	48.	999.	2	NAD-SFC	NoSubs
7	8	25	237	11	162.8	-9.000	-9.000	-9.000	602.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.2	2.0	0	0.00	45.	999.	2	NAD-SFC	NoSubs
7	8	25	237	12	175.1	0.120	1.537	0.010	739.	100.	-1.0	0.2720	0.52	0.19	0.50	324.0	15.0	303.1	2.0	0	0.00	41.	998.	2	NAD-SFC	NoSubs
7	8	25	237	13	175.9	0.122	1.612	0.010	848.	102.	-1.0	0.2930	0.52	0.19	0.50	332.0	15.0	304.6	2.0	0	0.00	37.	998.	2	NAD-SFC	NoSubs
7	8	25	237	14	165.0	0.183	1.633	0.010	941.	187.	-3.3	0.2930	0.52	0.19	1.00	337.0	15.0	305.8	2.0	0	0.00	36.	997.	2	NAD-SFC	NoSubs
7	8	25	237	15	142.2	0.290	1.591	0.009	1008.	374.	-15.2	0.2930	0.52	0.19	2.10	355.0	15.0	306.2	2.0	0	0.00	35.	997.	2	NAD-SFC	NoSubs
7	8	25	237	16	108.7	0.375	1.477	0.009	1055.	550.	-43.0	0.2930	0.52	0.21	3.10	353.0	15.0	306.2	2.0	0	0.00	37.	996.	2	NAD-SFC	NoSubs
7	8	25	237	17	65.9	0.361	1.261	0.009	1081.	521.	-63.4	0.2940	0.52	0.24	3.10	3.0	15.0	305.6	2.0	0	0.00	48.	996.	2	NAD-SFC	NoSubs
7	8	25	237	18	18.0	0.383	0.820	0.009	1086.	568.	-275.8	0.2930	0.52	0.36	3.60	346.0	15.0	304.6	2.0	0	0.00	51.	997.	2	NAD-SFC	NoSubs
7	8	25	237	19	-45.4	0.448	-9.000	-9.000	-999.	719.	175.9	0.2720	0.52	0.75	4.60	309.0	15.0	302.4	2.0	0	0.00	55.	997.	2	NAD-SFC	NoSubs
7	8	25	237	20	-43.3	0.420	-9.000	-9.000	-999.	654.	152.3	0.2160	0.52	1.00	4.60	287.0	15.0	298.6	2.0	0	0.00	63.	998.	2	NAD-SFC	NoSubs
7	8	25	237	21	-43.6	0.420	-9.000	-9.000	-999.	653.	151.2	0.2160	0.52	1.00	4.60	281.0	15.0	296.5	2.0	0	0.00	66.	998.	2	NAD-SFC	NoSubs
7	8	25	237	22	-38.8	0.373	-9.000	-9.000	-999.	547.	118.5	0.2160	0.52	1.00	4.10	288.0	15.0	295.4	2.0	0	0.00	68.	998.	2	NAD-SFC	NoSubs
7	8	25	237	23	-36.2	0.347	-9.000	-9.000	-999.	491.	102.4	0.2720	0.52	1.00	3.60	308.0	15.0	294.8	2.0	0	0.00	69.	998.	2	NAD-SFC	NoSubs
7	8	25	237	24	-40.5	0.397	-9.000	-9.000	-999.	601.	137.7	0.2720	0.52	1.00	4.10	323.0	15.0	294.2	2.0	0	0.00	70.	999.	3	NAD-SFC	NoSubs
7	8	26	238	1	-36.3	0.355	-9.000	-9.000	-999.	508.	109.5	0.2930	0.52	1.00	3.60	353.0	15.0	293.8	2.0	0	0.00	72.	999.	3	NAD-SFC	NoSubs
7	8	26	238	2	-41.6	0.406	-9.000	-9.000	-999.	621.	143.6	0.2940	0.52	1.00	4.10	12.0	15.0	293.2	2.0	0	0.00	74.	999.	3	NAD-SFC	NoSubs
7	8	26	238	3	-31.2	0.304	-9.000	-9.000	-999.	408.	80.0	0.2940	0.52	1.00	3.10	12.0	15.0	292.8	2.0	0	0.00	74.	1000.	3	NAD-SFC	NoSubs
7	8	26	238	4	-31.1	0.304	-9.000	-9.000	-999.	401.	80.1	0.2940	0.52	1.00	3.10	20.0	15.0	293.0	2.0	0	0.00	72.	1000.	3	NAD-SFC	NoSubs
7	8	26	238	5	-16.3	0.200	-9.000	-9.000	-999.	220.	43.9	0.2940	0.52	1.00	2.10	8.0	15.0	293.2	2.0	0	0.00	71.	1000.	3	NAD-SFC	NoSubs
7	8	26	238	6	-4.0	0.102	-9.000	-9.000	-999.	83.	23.7	0.2940	0.52	0.75	1.00	27.0	15.0	293.4	2.0	0	0.00	71.	1000.	2	NAD-SFC	NoSubs
7	8	26	238	7	13.0	-9.000	-9.000	-9.000	85.	-999.	-99999.0	0.2235	0.52	0.36	0.00	0.0	15.0	293.4	2.0	0	0.00	71.	1000.	2	NAD-SFC	NoSubs
7	8	26	238	8	60.6	0.210	0.699	0.011	200.	231.	-13.7	0.2930	0.52	0.24	1.50	344.0	15.0	294.1	2.0	0	0.00	66.	1000.	2	NAD-SFC	NoSubs
7	8	26	238	9	103.5	0.223	0.980	0.009	324.	254.	-9.6	0.2930	0.52	0.21	1.50	336.0	15.0	295.8	2.0	0	0.00	60.	999.	2	NAD-SFC	NoSubs

7	8	26	238	10	137.9	0.231	1.210	0.008	458.	266.	-7.9	0.2930	0.52	0.19	1.50	348.0	15.0	298.0	2.0	0	0.00	53.	999.	2	NAD-SFC	NoSubs
7	8	26	238	11	161.7	0.235	1.395	0.009	598.	273.	-7.1	0.2930	0.52	0.19	1.50	346.0	15.0	299.9	2.0	0	0.00	49.	998.	2	NAD-SFC	NoSubs
7	8	26	238	12	173.9	0.184	1.531	0.009	735.	190.	-3.2	0.2940	0.52	0.19	1.00	15.0	15.0	301.6	2.0	0	0.00	46.	997.	2	NAD-SFC	NoSubs
7	8	26	238	13	174.6	0.238	1.618	0.009	863.	278.	-6.8	0.2930	0.52	0.19	1.50	358.0	15.0	303.2	2.0	0	0.00	43.	996.	2	NAD-SFC	NoSubs
7	8	26	238	14	163.6	-9.000	-9.000	-9.000	967.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	304.5	2.0	0	0.00	41.	996.	3	NAD-SFC	NoSubs
7	8	26	238	15	141.0	0.383	1.600	0.010	1032.	568.	-35.3	0.2940	0.52	0.19	3.10	8.0	15.0	305.1	2.0	0	0.00	41.	995.	3	NAD-SFC	NoSubs
7	8	26	238	16	107.8	0.420	1.484	0.010	1077.	654.	-61.2	0.2940	0.52	0.21	3.60	6.0	15.0	305.2	2.0	0	0.00	41.	995.	3	NAD-SFC	NoSubs
7	8	26	238	17	65.5	0.315	1.267	0.009	1103.	431.	-42.2	0.2930	0.52	0.24	2.60	354.0	15.0	305.0	2.0	0	0.00	50.	995.	3	NAD-SFC	NoSubs
7	8	26	238	18	18.2	0.376	0.828	0.009	1108.	553.	-259.8	0.2720	0.52	0.36	3.60	316.0	15.0	304.1	2.0	0	0.00	52.	996.	3	NAD-SFC	NoSubs
7	8	26	238	19	-46.6	0.468	-9.000	-9.000	-999.	768.	195.7	0.2160	0.52	0.76	5.10	286.0	15.0	301.0	2.0	0	0.00	55.	997.	3	NAD-SFC	NoSubs
7	8	26	238	20	-47.0	0.468	-9.000	-9.000	-999.	768.	193.6	0.2160	0.52	1.00	5.10	285.0	15.0	298.2	2.0	0	0.00	58.	997.	3	NAD-SFC	NoSubs
7	8	26	238	21	-42.4	0.420	-9.000	-9.000	-999.	656.	155.4	0.2160	0.52	1.00	4.60	281.0	15.0	296.8	2.0	0	0.00	61.	997.	3	NAD-SFC	NoSubs
7	8	26	238	22	-28.2	0.278	-9.000	-9.000	-999.	367.	68.0	0.2160	0.52	1.00	3.10	294.0	15.0	295.9	2.0	0	0.00	62.	997.	3	NAD-SFC	NoSubs
7	8	26	238	23	-24.3	0.246	-9.000	-9.000	-999.	294.	54.7	0.2720	0.52	1.00	2.60	320.0	15.0	295.8	2.0	0	0.00	61.	998.	3	NAD-SFC	NoSubs
7	8	26	238	24	-30.8	0.303	-9.000	-9.000	-999.	401.	80.5	0.2930	0.52	1.00	3.10	354.0	15.0	295.0	2.0	0	0.00	62.	998.	3	NAD-SFC	NoSubs
7	8	27	239	1	-30.9	0.303	-9.000	-9.000	-999.	401.	80.3	0.2930	0.52	1.00	3.10	355.0	15.0	294.2	2.0	0	0.00	65.	998.	3	NAD-SFC	NoSubs
7	8	27	239	2	-36.3	0.355	-9.000	-9.000	-999.	507.	109.7	0.2940	0.52	1.00	3.60	1.0	15.0	293.6	2.0	0	0.00	68.	998.	3	NAD-SFC	NoSubs
7	8	27	239	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	292.9	2.0	0	0.00	73.	998.	3	NAD-SFC	NoSubs
7	8	27	239	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	292.5	2.0	0	0.00	75.	999.	3	NAD-SFC	NoSubs
7	8	27	239	5	-25.4	0.252	-9.000	-9.000	-999.	304.	56.1	0.2940	0.52	1.00	2.60	1.0	15.0	292.4	2.0	0	0.00	76.	999.	3	NAD-SFC	NoSubs
7	8	27	239	6	-16.3	0.200	-9.000	-9.000	-999.	215.	43.8	0.2930	0.52	0.76	2.10	359.0	15.0	292.2	2.0	0	0.00	75.	999.	3	NAD-SFC	NoSubs
7	8	27	239	7	13.9	0.238	0.335	0.010	96.	279.	-86.3	0.2930	0.52	0.36	2.10	345.0	15.0	293.6	2.0	0	0.00	69.	999.	3	NAD-SFC	NoSubs
7	8	27	239	8	61.3	0.211	0.679	0.010	181.	232.	-13.6	0.2930	0.52	0.24	1.50	340.0	15.0	295.2	2.0	0	0.00	63.	999.	3	NAD-SFC	NoSubs
7	8	27	239	9	104.1	0.111	0.959	0.009	302.	94.	-1.2	0.2720	0.52	0.21	0.50	328.0	15.0	297.2	2.0	0	0.00	57.	999.	3	NAD-SFC	NoSubs
7	8	27	239	10	138.1	-9.000	-9.000	-9.000	436.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.1	2.0	0	0.00	52.	998.	3	NAD-SFC	NoSubs
7	8	27	239	11	161.7	-9.000	-9.000	-9.000	594.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.1	2.0	0	0.00	47.	998.	3	NAD-SFC	NoSubs
7	8	27	239	12	173.7	0.122	1.539	0.007	747.	102.	-1.0	0.2930	0.52	0.19	0.50	332.0	15.0	302.8	2.0	0	0.00	43.	997.	3	NAD-SFC	NoSubs
7	8	27	239	13	174.2	0.122	1.633	0.007	889.	102.	-1.0	0.2930	0.52	0.19	0.50	333.0	15.0	304.0	2.0	0	0.00	41.	996.	3	NAD-SFC	NoSubs
7	8	27	239	14	163.1	0.182	1.665	0.007	1006.	187.	-3.3	0.2930	0.52	0.19	1.00	345.0	15.0	304.9	2.0	0	0.00	39.	995.	3	NAD-SFC	NoSubs
7	8	27	239	15	140.5	0.231	1.632	0.007	1100.	267.	-7.8	0.2930	0.52	0.20	1.50	346.0	15.0	305.5	2.0	0	0.00	39.	995.	3	NAD-SFC	NoSubs
7	8	27	239	16	107.2	0.328	1.521	0.008	1167.	451.	-29.2	0.2930	0.52	0.21	2.60	350.0	15.0	305.8	2.0	0	0.00	39.	995.	3	NAD-SFC	NoSubs
7	8	27	239	17	64.7	-9.000	-9.000	-9.000	1203.	-999.	-99999.0	0.2235	0.52	0.24	0.00	0.0	15.0	305.2	2.0	0	0.00	48.	995.	3	NAD-SFC	NoSubs
7	8	27	239	18	17.5	-9.000	-9.000	-9.000	1212.	-999.	-99999.0	0.2235	0.52	0.37	0.00	0.0	15.0	304.8	2.0	0	0.00	52.	995.	3	NAD-SFC	NoSubs
7	8	27	239	19	-35.0	0.355	-9.000	-9.000	-999.	507.	113.4	0.2930	0.52	1.00	3.60	332.0	15.0	303.6	2.0	0	0.00	54.	996.	3	NAD-SFC	NoSubs
7	8	27	239	20	-41.8	0.420	-9.000	-9.000	-999.	654.	157.7	0.2160	0.52	1.00	4.60	294.0	15.0	301.0	2.0	0	0.00	59.	997.	3	NAD-SFC	NoSubs
7	8	27	239	21	-32.7	0.326	-9.000	-9.000	-999.	452.	93.7	0.2160	0.52	1.00	3.60	284.0	15.0	298.1	2.0	0	0.00	64.	997.	3	NAD-SFC	NoSubs
7	8	27	239	22	-28.1	0.278	-9.000	-9.000	-999.	354.	68.2	0.2160	0.52	1.00	3.10	289.0	15.0	297.0	2.0	0	0.00	66.	998.	3	NAD-SFC	NoSubs
7	8	27	239	23	-30.1	0.297	-9.000	-9.000	-999.	388.	77.4	0.2720	0.52	1.00	3.10	311.0	15.0	296.2	2.0	0	0.00	68.	998.	3	NAD-SFC	NoSubs
7	8	27	239	24	-30.8	0.303	-9.000	-9.000	-999.	401.	80.6	0.2930	0.52	1.00	3.10	334.0	15.0	295.2	2.0	0	0.00	72.	998.	3	NAD-SFC	NoSubs
7	8	28	240	1	-30.9	0.303	-9.000	-9.000	-999.	401.	80.4	0.2930	0.52	1.00	3.10	336.0	15.0	294.8	2.0	0	0.00	74.	998.	3	NAD-SFC	NoSubs
7	8	28	240	2	-31.0	0.304	-9.000	-9.000	-999.	401.	80.4	0.2940	0.52	1.00	3.10	2.0	15.0	294.2	2.0	0	0.00	74.	998.	3	NAD-SFC	NoSubs
7	8	28	240	3	-31.0	0.304	-9.000	-9.000	-999.	401.	80.4	0.2940	0.52	1.00	3.10	11.0	15.0	294.0	2.0	0	0.00	76.	998.	3	NAD-SFC	NoSubs
7	8	28	240	4	-25.6	0.252	-9.000	-9.000	-999.	304.	55.5	0.2940	0.52	1.00	2.60	24.0	15.0	293.8	2.0	0	0.00	76.	998.	2	NAD-SFC	NoSubs
7	8	28	240	5	-8.2	0.140	-9.000	-9.000	-999.	132.	29.7	0.2940	0.52	1.00	1.50	21.0	15.0	293.6	2.0	0	0.00	76.	998.	2	NAD-SFC	NoSubs
7	8	28	240	6	-4.0	0.102	-9.000	-9.000	-999.	78.	23.7	0.2940	0.52	0.77	1.00	27.0	15.0	293.4	2.0	0	0.00	77.	999.	2	NAD-SFC	NoSubs
7	8	28	240	7	12.2	0.135	0.294	0.012	74.	119.	-17.9	0.2940	0.52	0.36	1.00	5.0	15.0	294.2	2.0	0	0.00	73.	999.	2	NAD-SFC	NoSubs
7	8	28	240	8	60.3	0.105	0.665	0.010	174.	82.	-1.7	0.2930	0.52	0.24	0.50	341.0	15.0	296.2	2.0	0	0.00	66.	999.	2	NAD-SFC	NoSubs
7	8	28	240	9	103.5	-9.000	-9.000	-9.000	302.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	298.2	2.0	0	0.00	60.	999.	2	NAD-SFC	NoSubs
7	8	28	240	10	137.9	-9.000	-9.000	-9.000	460.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	300.2	2.0	0	0.00	54.	999.	2	NAD-SFC	NoSubs
7	8	28	240	11	161.7	-9.000	-9.000	-9.000	655.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.2	2.0	0	0.00	49.	999.	2	NAD-SFC	NoSubs
7	8	28	240	12	174.0	-9.000	-9.000	-9.000	773.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	304.1	2.0	0	0.00	44.	998.	2	NAD-SFC	NoSubs
7	8	28	240	13	174.6	0.120	1.625	0.008	875.	100.	-1.0	0.2720	0.52	0.19	0.50	308.0	15.0	305.6	2.0	0	0.00	40.	997.	2	NAD-SFC	NoSubs
7	8	28	240	14	163.5	0.119	1.640	0.007	961.	98.	-1.0	0.2720	0.52	0.19	0.50	314.0	15.0	306.8	2.0	0	0.00	37.	996.	2	NAD-SFC	NoSubs
7	8	28	240	15	140.7	0.179	1.602	0.007	1040.	182.	-3.6	0.2930	0.52	0.20	1.00	334.0	15.0	307.6	2.0	0	0.00	36.	996.	2	NAD-SFC	NoSubs
7	8	28	240	16	107.0	0.282	1.490	0.007	1098.	360.	-18.6	0.2940	0.52	0.21	2.10	2.0	15.0	307.9	2.0	0	0.00	37.	995.	2	NAD-SFC	NoSubs
7	8	28	240	17	63.9	0.268	1.267	0.006	1130.	333.	-26.7	0.2940	0.52	0.24	2.10	9.0	15.0	307.2	2.0	0	0.00	47.	995.	2	NAD-SFC	NoSubs
7	8	28	240	18	16.2	0.334	0.803	0.006	1135.	463.	-204.3	0.2940	0.52	0.37	3.10	9.0	15.0	306.5	2.0	0	0.00	51.	996.	2	NAD-SFC	NoSubs
7	8	28	240	19	-30.6	0.304	-9.000	-9.000	-999.	402.	81.4	0.2940	0.52	1.00	3.10	24.0	15.0	305.2	2.0	0	0.00	54.	996.	2	NAD-SFC	NoSubs
7	8	28	240	20	-15.5	0.196	-9.000	-9.000	-999.	214.	42.8	0.2720	0.52	1.00	2.10	318.0	15.0	304.2	2.0	0	0.00	57.	996.	2	NAD-SFC	NoSubs
7	8	28	240	21	-42.8	0.420	-9.000	-9.000	-999.	653.	154.1	0.2160	0.52	1.00	4.60	290.0	15.0	302.0	2.0	0	0.00	63.	997.	2	NAD-SFC	NoSubs
7	8	28	240	22	-38.3	0.373	-9.000	-9.000	-999.	548.	120.2	0.2160	0.52	1.00	4.10	282.0	15.0	299.5	2.0	0	0.00	69.	997.	2	NAD-SFC	NoSubs
7	8	28	240	23	-33.5	0.325	-9.000	-9.000	-999.	447.	91.4	0.2160	0.52	1.00	3.60	293.0	15.0	298.6	2.0	0	0.00	69.	998.	2	NAD-SFC	NoSubs
7	8	28	240	24	-30.6	0.297	-9.000	-9.000	-999.	388.	75.8	0.2720	0.52	1.00	3.10	316.0	15.0	297.9	2.0	0	0.00	68.	998.	2	NAD-SFC	NoSubs
7	8	29	241	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	297.2	2.0	0	0.00	69.	998.	2	NAD-SFC	NoSubs
7	8	29	241	2	-31.5	0.303	-9.000	-9.000	-999.	401.	79.0	0.2940	0.52	1.00	3.10	23.0	15.0	296.8	2.0	0	0.00	70.	998.	2	NAD-SFC	NoSubs
7	8	29	241	3	-23.5	0.239	-9.000	-9.000	-999.	283.	52.0	0.2470	0.52	1.00	2.60	33.0	15.0	296.4	2.0	0	0.00	70.	999.	2	NAD-SFC	NoSubs
7	8	29	241	4	-15.1	0.190	-9.000	-9.000	-999.	199.	40.6	0.2470	0.52	1.00	2.10	34.0	15.0	296.1	2.0	0	0.00	70.	999.	2	NAD-SFC	NoSubs
7	8	29	241	5	-4.0	0.102	-9.000	-9.000	-999.	81.	23.7	0.2940	0.52	1.00	1.00	17.0	15.0	295.9	2.0	0	0.00	70.	999.	2	NAD-SFC	NoSubs
7	8	29	241	6	4.2	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	295.6	2.0	0	0.00	72.	999.	2	NAD-SFC	NoSubs
7	8	29	241	7	12.4	-9.000	-9.000	-9.000	75.	-999.	-99999.0	0.2235	0.52	0.37	0.00	0.0	15.0	296.2	2.0	0	0.00	71.	999.	2	NAD-SFC	NoSubs
7	8	29	241	8	60.7	-9.000	-9.000	-9.000	181.	-999.	-99999.0	0.2235	0.52	0.24	0.00	0.0	15.0	298.6	2.0	0	0.00	60.	1000.	2	NAD-SFC	NoSubs
7	8	29	241	9	104.0	-9.000	-9.000	-9.000	316.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	300.5	2.0	0	0.00	55.	999.	2	NAD-SFC	NoSubs
7	8	29	241	10	138.5	-9.000	-9.000	-9.000	517.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	302.6	2.0	0	0.00	49.	999.	2	NAD-SFC	NoSubs
7	8	29	241	11	162.0	-9.000	-9.000	-9.000	721.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.9	2.0	0	0.00	47.	999.	2	NAD-SFC	NoSubs
7	8	29	241	12	174.0	-9.000	-9.000	-9.000	854.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	305.2	2.0	0	0.00	44.	998.	2	NAD-SFC	NoSubs
7	8	29	241	13	174.4	-9.000	-9.000	-9.000	969.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	306.4	2.0	0	0.00	41.	997.	2	NAD-SFC	NoSubs
7	8	29	241	14	163.0	-9.000	-9.000	-9.000	1040.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	307.2	2.0	0	0.00	39.	997.	2	NAD-SFC	NoSubs

7	8	29	241	15	139.9	0.179	1.628	0.008	1097.	182.	-3.7	0.2940	0.52	0.20	1.00	11.0	15.0	307.8	2.0	0	0.00	38.	996.	2	NAD-SFC NoSubs
7	8	29	241	16	106.0	0.224	1.502	0.008	1137.	255.	-9.5	0.2940	0.52	0.21	1.50	6.0	15.0	307.8	2.0	0	0.00	42.	996.	2	NAD-SFC NoSubs
7	8	29	241	17	62.9	0.314	1.271	0.008	1160.	422.	-43.7	0.2940	0.52	0.25	2.60	9.0	15.0	307.2	2.0	0	0.00	50.	996.	2	NAD-SFC NoSubs
7	8	29	241	18	15.2	0.286	0.793	0.008	1164.	368.	-136.9	0.2940	0.52	0.38	2.60	23.0	15.0	306.5	2.0	0	0.00	53.	996.	2	NAD-SFC NoSubs
7	8	29	241	19	-3.9	0.101	-9.000	-9.000	-999.	117.	23.7	0.2940	0.52	1.00	1.00	10.0	15.0	305.2	2.0	0	0.00	57.	996.	2	NAD-SFC NoSubs
7	8	29	241	20	-3.2	0.092	-9.000	-9.000	-999.	68.	21.6	0.1750	0.52	1.00	1.00	244.0	15.0	304.0	2.0	0	0.00	62.	997.	2	NAD-SFC NoSubs
7	8	29	241	21	-28.2	0.278	-9.000	-9.000	-999.	352.	67.9	0.2160	0.52	1.00	3.10	278.0	15.0	303.2	2.0	0	0.00	64.	997.	2	NAD-SFC NoSubs
7	8	29	241	22	-40.5	0.397	-9.000	-9.000	-999.	601.	137.5	0.2720	0.52	1.00	4.10	303.0	15.0	301.4	2.0	0	0.00	68.	997.	2	NAD-SFC NoSubs
7	8	29	241	23	-30.4	0.297	-9.000	-9.000	-999.	394.	76.4	0.2720	0.52	1.00	3.10	312.0	15.0	300.4	2.0	0	0.00	67.	998.	2	NAD-SFC NoSubs
7	8	29	241	24	-31.1	0.303	-9.000	-9.000	-999.	401.	79.7	0.2930	0.52	1.00	3.10	345.0	15.0	299.9	2.0	0	0.00	66.	998.	2	NAD-SFC NoSubs
7	8	30	242	1	-40.8	0.397	-9.000	-9.000	-999.	601.	136.5	0.2720	0.52	1.00	4.10	329.0	15.0	299.4	2.0	0	0.00	66.	998.	2	NAD-SFC NoSubs
7	8	30	242	2	-46.2	0.448	-9.000	-9.000	-999.	718.	173.2	0.2720	0.52	1.00	4.60	319.0	15.0	298.9	2.0	0	0.00	67.	999.	2	NAD-SFC NoSubs
7	8	30	242	3	-35.8	0.347	-9.000	-9.000	-999.	497.	103.9	0.2720	0.52	1.00	3.60	328.0	15.0	298.8	2.0	0	0.00	71.	999.	2	NAD-SFC NoSubs
7	8	30	242	4	-31.2	0.303	-9.000	-9.000	-999.	402.	79.5	0.2930	0.52	1.00	3.10	346.0	15.0	299.0	2.0	0	0.00	73.	999.	2	NAD-SFC NoSubs
7	8	30	242	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	299.8	2.0	0	0.00	72.	999.	2	NAD-SFC NoSubs
7	8	30	242	6	-45.8	0.458	-9.000	-9.000	-999.	743.	187.0	0.2930	0.52	1.00	4.60	348.0	15.0	300.8	2.0	0	0.00	66.	1000.	3	NAD-SFC NoSubs
7	8	30	242	7	15.3	0.787	0.303	0.005	65.	1674.	-2846.0	0.2930	0.52	0.37	7.70	360.0	15.0	300.9	2.0	0	0.00	63.	1000.	3	NAD-SFC NoSubs
7	8	30	242	8	61.8	0.651	0.616	0.005	135.	1287.	-399.1	0.2940	0.52	0.24	6.20	17.0	15.0	300.2	2.0	0	0.00	64.	1001.	3	NAD-SFC NoSubs
7	8	30	242	9	104.3	0.465	0.836	0.005	200.	800.	-86.1	0.2940	0.52	0.21	4.10	14.0	15.0	301.1	2.0	0	0.00	63.	1001.	3	NAD-SFC NoSubs
7	8	30	242	10	138.2	0.474	1.090	0.005	335.	782.	-68.6	0.2940	0.52	0.20	4.10	11.0	15.0	302.8	2.0	0	0.00	58.	1001.	3	NAD-SFC NoSubs
7	8	30	242	11	161.9	0.549	1.850	0.005	1399.	976.	-91.4	0.2470	0.52	0.19	5.10	30.0	15.0	304.8	2.0	0	0.00	45.	1001.	3	NAD-SFC NoSubs
7	8	30	242	12	174.1	0.507	1.985	0.005	1605.	870.	-66.9	0.2470	0.52	0.19	4.60	33.0	15.0	306.6	2.0	0	0.00	40.	1000.	3	NAD-SFC NoSubs
7	8	30	242	13	174.5	0.420	2.062	0.005	1792.	660.	-37.8	0.2470	0.52	0.19	3.60	32.0	15.0	307.8	2.0	0	0.00	37.	999.	2	NAD-SFC NoSubs
7	8	30	242	14	162.9	0.387	2.081	0.005	1975.	580.	-31.8	0.2940	0.52	0.19	3.10	22.0	15.0	308.2	2.0	0	0.00	36.	998.	2	NAD-SFC NoSubs
7	8	30	242	15	139.6	0.382	2.023	0.005	2117.	568.	-35.6	0.2940	0.52	0.20	3.10	17.0	15.0	308.4	2.0	0	0.00	36.	998.	2	NAD-SFC NoSubs
7	8	30	242	16	105.3	0.328	1.871	0.005	2214.	452.	-29.7	0.2940	0.52	0.21	2.60	17.0	15.0	308.1	2.0	0	0.00	40.	997.	2	NAD-SFC NoSubs
7	8	30	242	17	62.5	0.211	1.581	0.005	2254.	240.	-13.4	0.2930	0.52	0.25	1.50	354.0	15.0	308.2	2.0	0	0.00	45.	997.	2	NAD-SFC NoSubs
7	8	30	242	18	15.1	0.255	0.986	0.005	2263.	310.	-98.1	0.1750	0.52	0.38	2.60	257.0	15.0	308.0	2.0	0	0.00	45.	997.	2	NAD-SFC NoSubs
7	8	30	242	19	-37.4	0.373	-9.000	-9.000	-999.	546.	123.2	0.2160	0.52	1.00	4.10	272.0	15.0	306.5	2.0	0	0.00	49.	997.	2	NAD-SFC NoSubs
7	8	30	242	20	-42.4	0.420	-9.000	-9.000	-999.	653.	155.4	0.2160	0.52	1.00	4.60	280.0	15.0	304.4	2.0	0	0.00	57.	997.	2	NAD-SFC NoSubs
7	8	30	242	21	-37.8	0.373	-9.000	-9.000	-999.	548.	121.7	0.2160	0.52	1.00	4.10	278.0	15.0	303.0	2.0	0	0.00	60.	997.	2	NAD-SFC NoSubs
7	8	30	242	22	-20.0	0.218	-9.000	-9.000	-999.	262.	46.3	0.1750	0.52	1.00	2.60	269.0	15.0	302.4	2.0	0	0.00	61.	998.	2	NAD-SFC NoSubs
7	8	30	242	23	-20.0	0.218	-9.000	-9.000	-999.	245.	46.3	0.1750	0.52	1.00	2.60	267.0	15.0	301.8	2.0	0	0.00	62.	998.	2	NAD-SFC NoSubs
7	8	30	242	24	-28.5	0.278	-9.000	-9.000	-999.	352.	67.3	0.2160	0.52	1.00	3.10	288.0	15.0	300.8	2.0	0	0.00	64.	998.	2	NAD-SFC NoSubs
7	8	31	243	1	-28.6	0.278	-9.000	-9.000	-999.	352.	67.1	0.2160	0.52	1.00	3.10	298.0	15.0	299.9	2.0	0	0.00	67.	998.	2	NAD-SFC NoSubs
7	8	31	243	2	-30.5	0.297	-9.000	-9.000	-999.	388.	76.1	0.2720	0.52	1.00	3.10	303.0	15.0	299.2	2.0	0	0.00	69.	999.	2	NAD-SFC NoSubs
7	8	31	243	3	-35.8	0.347	-9.000	-9.000	-999.	490.	103.9	0.2720	0.52	1.00	3.60	314.0	15.0	298.6	2.0	0	0.00	70.	999.	2	NAD-SFC NoSubs
7	8	31	243	4	-30.7	0.297	-9.000	-9.000	-999.	389.	75.8	0.2720	0.52	1.00	3.10	321.0	15.0	298.1	2.0	0	0.00	70.	999.	2	NAD-SFC NoSubs
7	8	31	243	5	-31.4	0.303	-9.000	-9.000	-999.	401.	79.1	0.2930	0.52	1.00	3.10	338.0	15.0	297.8	2.0	0	0.00	69.	999.	2	NAD-SFC NoSubs
7	8	31	243	6	-31.4	0.303	-9.000	-9.000	-999.	401.	79.1	0.2930	0.52	1.00	3.10	353.0	15.0	297.6	2.0	0	0.00	69.	1000.	2	NAD-SFC NoSubs
7	8	31	243	7	12.1	0.283	0.275	0.006	61.	361.	-166.5	0.2930	0.52	0.37	2.60	352.0	15.0	298.0	2.0	0	0.00	69.	1000.	2	NAD-SFC NoSubs
7	8	31	243	8	60.3	0.266	0.659	0.007	169.	330.	-27.9	0.2930	0.52	0.24	2.10	335.0	15.0	300.1	2.0	0	0.00	60.	1000.	2	NAD-SFC NoSubs
7	8	31	243	9	103.5	0.172	0.986	0.007	330.	175.	-4.4	0.2930	0.52	0.21	1.00	332.0	15.0	301.8	2.0	0	0.00	55.	1000.	2	NAD-SFC NoSubs
7	8	31	243	10	137.7	-9.000	-9.000	-9.000	521.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	303.2	2.0	0	0.00	51.	1000.	2	NAD-SFC NoSubs
7	8	31	243	11	161.5	-9.000	-9.000	-9.000	709.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	304.9	2.0	0	0.00	47.	999.	2	NAD-SFC NoSubs
7	8	31	243	12	173.4	0.114	1.631	0.006	893.	92.	-1.0	0.2160	0.52	0.19	0.50	282.0	15.0	306.2	2.0	0	0.00	44.	999.	2	NAD-SFC NoSubs
7	8	31	243	13	173.6	0.120	1.711	0.006	1028.	99.	-1.0	0.2720	0.52	0.19	0.50	328.0	15.0	307.2	2.0	0	0.00	42.	998.	2	NAD-SFC NoSubs
7	8	31	243	14	162.1	0.182	1.723	0.005	1125.	187.	-3.3	0.2930	0.52	0.19	1.00	360.0	15.0	308.0	2.0	0	0.00	40.	997.	2	NAD-SFC NoSubs
7	8	31	243	15	138.7	0.289	1.673	0.005	1201.	373.	-15.5	0.2940	0.52	0.20	2.10	14.0	15.0	308.4	2.0	0	0.00	40.	996.	2	NAD-SFC NoSubs
7	8	31	243	16	104.6	0.327	1.546	0.005	1255.	450.	-29.8	0.2940	0.52	0.21	2.60	6.0	15.0	308.5	2.0	0	0.00	41.	996.	2	NAD-SFC NoSubs
7	8	31	243	17	61.4	-9.000	-9.000	-9.000	1285.	-999.	-99999.0	0.2235	0.52	0.25	0.00	0.0	15.0	308.2	2.0	0	0.00	50.	996.	2	NAD-SFC NoSubs
7	8	31	243	18	13.9	0.238	0.797	0.005	1291.	279.	-86.1	0.2930	0.52	0.39	2.10	357.0	15.0	307.8	2.0	0	0.00	52.	996.	2	NAD-SFC NoSubs
7	8	31	243	19	-16.1	0.200	-9.000	-9.000	-999.	215.	44.3	0.2930	0.52	1.00	2.10	355.0	15.0	306.4	2.0	0	0.00	55.	996.	2	NAD-SFC NoSubs
7	8	31	243	20	-3.8	0.100	-9.000	-9.000	-999.	80.	23.3	0.2720	0.52	1.00	1.00	321.0	15.0	305.2	2.0	0	0.00	58.	996.	2	NAD-SFC NoSubs
7	8	31	243	21	-28.1	0.278	-9.000	-9.000	-999.	352.	68.1	0.2160	0.52	1.00	3.10	295.0	15.0	304.2	2.0	0	0.00	61.	997.	2	NAD-SFC NoSubs
7	8	31	243	22	-38.1	0.373	-9.000	-9.000	-999.	546.	120.9	0.2160	0.52	1.00	4.10	286.0	15.0	301.2	2.0	0	0.00	69.	997.	2	NAD-SFC NoSubs
7	8	31	243	23	-28.5	0.278	-9.000	-9.000	-999.	357.	67.1	0.2160	0.52	1.00	3.10	286.0	15.0	300.0	2.0	0	0.00	70.	998.	2	NAD-SFC NoSubs
7	8	31	243	24	-30.5	0.297	-9.000	-9.000	-999.	388.	76.2	0.2720	0.52	1.00	3.10	300.0	15.0	299.6	2.0	0	0.00	68.	998.	2	NAD-SFC NoSubs
7	9	1	244	1	-30.5	0.297	-9.000	-9.000	-999.	388.	76.1	0.2720	0.52	1.00	3.10	300.0	15.0	299.1	2.0	0	0.00	69.	998.	2	NAD-SFC NoSubs
7	9	1	244	2	-35.8	0.347	-9.000	-9.000	-999.	490.	103.8	0.2720	0.52	1.00	3.60	314.0	15.0	298.4	2.0	0	0.00	71.	998.	2	NAD-SFC NoSubs
7	9	1	244	3	-30.6	0.297	-9.000	-9.000	-999.	389.	75.8	0.2720	0.52	1.00	3.10	328.0	15.0	298.0	2.0	0	0.00	75.	998.	2	NAD-SFC NoSubs
7	9	1	244	4	-24.5	0.246	-9.000	-9.000	-999.	294.	54.1	0.2720	0.52	1.00	2.60	328.0	15.0	297.6	2.0	0	0.00	79.	999.	2	NAD-SFC NoSubs
7	9	1	244	5	-16.3	0.200	-9.000	-9.000	-999.	215.	43.5	0.2930	0.52	1.00	2.10	334.0	15.0	297.1	2.0	0	0.00	83.	999.	2	NAD-SFC NoSubs
7	9	1	244	6	-7.9	0.137	-9.000	-9.000	-999.	122.	29.0	0.2720	0.52	1.00	1.50	328.0	15.0	296.8	2.0	0	0.00	86.	999.	2	NAD-SFC NoSubs
7	9	1	244	7	11.1	0.235	0.329	0.010	114.	273.	-103.7	0.2930	0.52	0.37	2.10	354.0	15.0	296.9	2.0	0	0.00	84.	1000.	2	NAD-SFC NoSubs
7	9	1	244	8	58.9	0.161	0.717	0.011	223.	156.	-6.3	0.2930	0.52	0.24	1.00	346.0	15.0	298.2	2.0	0	0.00	77.	1000.	2	NAD-SFC NoSubs
7	9	1	244	9	102.4	-9.000	-9.000	-9.000	346.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	300.4	2.0	0	0.00	68.	999.	2	NAD-SFC NoSubs
7	9	1	244	10	136.7	-9.000	-9.000	-9.000	477.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	302.1	2.0	0	0.00	63.	999.	2	NAD-SFC NoSubs
7	9	1	244	11	160.4	-9.000	-9.000	-9.000	604.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	304.0	2.0	0	0.00	56.	998.	2	NAD-SFC NoSubs
7	9	1	244	12	172.5	-9.000	-9.000	-9.000	754.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	305.6	2.0	0	0.00	50.	997.	2	NAD-SFC NoSubs
7	9	1	244	13	172.8	-9.000	-9.000	-9.000	907.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	306.9	2.0	0	0.00	46.	996.	2	NAD-SFC NoSubs
7	9	1	244	14	161.1	0.119	1.659	0.009	1008.	98.	-1.0	0.2720	0.52	0.19	0.50	323.0	15.0	307.8	2.0	0	0.00	43.	996.	2	NAD-SFC NoSubs
7	9	1	244	15	137.7	0.231	1.606	0.009	1069.	266.	-7.9	0.2930	0.52	0.20	1.50	348.0	15.0	308.2	2.0	0	0.00	41.	995.	2	NAD-SFC NoSubs
7	9	1	244	16	103.5	0.327	1.480	0.009	1112.	449.	-30.0	0.2940	0.52	0.21	2.60	8.0	15.0	308.2	2.0	0	0.00	42.	994.	2	NAD-SFC NoSubs
7	9	1	244	17	60.1	0.313	1.243	0.009	1136.	420.	-45.2	0.2940	0.52	0.25	2.60	8.0	15.0	307.8	2.0	0	0.00	53.	994.	2	NAD-SFC NoSubs
7	9	1	244	18	12.4	0.378	0.736	0.009	1139.	559.	-387.0	0.2940	0.52	0.39	3.60	21.0	15.0	306.9	2.0	0	0.00	57.	994.	2	NAD-SFC NoSubs
7	9	1	244	19	-30.5	0.304	-9.000	-9.000	-999.	405.	81.5	0.2940	0.52	1.00	3.10	12.0	15.0	305.8	2.0	0	0.00	60.	995.	2	NAD-SFC NoSubs

7	9	1	244	20	-16.1	0.200	-9.000	-9.000	-999.	220.	44.2	0.2930	0.52	1.00	2.10	354.0	15.0	304.6	2.0	0	0.00	63.	995.	2	NAD-SFC	NoSubs
7	9	1	244	21	-30.0	0.297	-9.000	-9.000	-999.	388.	77.3	0.2720	0.52	1.00	3.10	319.0	15.0	303.8	2.0	0	0.00	67.	996.	2	NAD-SFC	NoSubs
7	9	1	244	22	-40.4	0.397	-9.000	-9.000	-999.	601.	137.9	0.2720	0.52	1.00	4.10	323.0	15.0	302.2	2.0	0	0.00	71.	996.	2	NAD-SFC	NoSubs
7	9	1	244	23	-36.2	0.355	-9.000	-9.000	-999.	508.	109.4	0.2930	0.52	1.00	3.60	332.0	15.0	301.0	2.0	0	0.00	75.	996.	2	NAD-SFC	NoSubs
7	9	1	244	24	-36.3	0.355	-9.000	-9.000	-999.	507.	109.0	0.2930	0.52	1.00	3.60	336.0	15.0	300.0	2.0	0	0.00	77.	997.	2	NAD-SFC	NoSubs
7	9	2	245	1	-36.5	0.355	-9.000	-9.000	-999.	507.	108.6	0.2930	0.52	1.00	3.60	346.0	15.0	299.0	2.0	0	0.00	80.	997.	2	NAD-SFC	NoSubs
7	9	2	245	2	-31.3	0.303	-9.000	-9.000	-999.	402.	79.2	0.2930	0.52	1.00	3.10	350.0	15.0	298.2	2.0	0	0.00	80.	997.	2	NAD-SFC	NoSubs
7	9	2	245	3	-31.4	0.303	-9.000	-9.000	-999.	401.	79.1	0.2930	0.52	1.00	3.10	350.0	15.0	297.6	2.0	0	0.00	80.	998.	2	NAD-SFC	NoSubs
7	9	2	245	4	-25.4	0.252	-9.000	-9.000	-999.	304.	55.7	0.2930	0.52	1.00	2.60	336.0	15.0	297.1	2.0	0	0.00	79.	998.	2	NAD-SFC	NoSubs
7	9	2	245	5	-8.2	0.140	-9.000	-9.000	-999.	132.	29.8	0.2930	0.52	1.00	1.50	334.0	15.0	296.8	2.0	0	0.00	79.	998.	2	NAD-SFC	NoSubs
7	9	2	245	6	-3.8	0.100	-9.000	-9.000	-999.	76.	23.3	0.2720	0.52	1.00	1.00	320.0	15.0	296.4	2.0	0	0.00	79.	998.	2	NAD-SFC	NoSubs
7	9	2	245	7	10.5	0.179	0.304	0.011	95.	182.	-48.6	0.2930	0.52	0.38	1.50	345.0	15.0	296.6	2.0	0	0.00	75.	999.	2	NAD-SFC	NoSubs
7	9	2	245	8	58.2	0.161	0.665	0.011	180.	154.	-6.3	0.2930	0.52	0.25	1.00	340.0	15.0	297.8	2.0	0	0.00	67.	999.	2	NAD-SFC	NoSubs
7	9	2	245	9	101.7	-9.000	-9.000	-9.000	293.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	299.9	2.0	0	0.00	60.	998.	2	NAD-SFC	NoSubs
7	9	2	245	10	135.9	0.110	1.171	0.006	421.	87.	-1.0	0.2160	0.52	0.20	0.50	297.0	15.0	301.8	2.0	0	0.00	54.	998.	2	NAD-SFC	NoSubs
7	9	2	245	11	159.4	0.118	1.409	0.007	624.	98.	-1.0	0.2720	0.52	0.19	0.50	314.0	15.0	303.2	2.0	0	0.00	50.	997.	2	NAD-SFC	NoSubs
7	9	2	245	12	171.4	0.181	1.594	0.010	841.	184.	-3.0	0.2720	0.52	0.19	1.00	316.0	15.0	304.8	2.0	0	0.00	46.	996.	2	NAD-SFC	NoSubs
7	9	2	245	13	171.5	0.237	1.685	0.011	992.	277.	-6.9	0.2930	0.52	0.19	1.50	339.0	15.0	305.9	2.0	0	0.00	44.	996.	2	NAD-SFC	NoSubs
7	9	2	245	14	159.8	0.341	1.678	0.010	1051.	477.	-22.0	0.2930	0.52	0.19	2.60	354.0	15.0	306.8	2.0	0	0.00	43.	995.	2	NAD-SFC	NoSubs
7	9	2	245	15	136.2	0.381	1.615	0.010	1099.	565.	-36.1	0.2930	0.52	0.20	3.10	354.0	15.0	307.0	2.0	0	0.00	43.	995.	2	NAD-SFC	NoSubs
7	9	2	245	16	101.6	0.373	1.480	0.010	1133.	546.	-45.2	0.2930	0.52	0.21	3.10	352.0	15.0	306.8	2.0	0	0.00	43.	995.	2	NAD-SFC	NoSubs
7	9	2	245	17	58.3	0.266	1.236	0.009	1152.	335.	-28.5	0.2930	0.52	0.25	2.10	353.0	15.0	306.5	2.0	0	0.00	52.	995.	2	NAD-SFC	NoSubs
7	9	2	245	18	10.9	0.281	0.708	0.009	1154.	358.	-181.5	0.2930	0.52	0.40	2.60	351.0	15.0	306.0	2.0	0	0.00	53.	995.	2	NAD-SFC	NoSubs
7	9	2	245	19	-24.2	0.246	-9.000	-9.000	-999.	294.	54.9	0.2720	0.52	1.00	2.60	328.0	15.0	304.8	2.0	0	0.00	55.	996.	2	NAD-SFC	NoSubs
7	9	2	245	20	-35.1	0.347	-9.000	-9.000	-999.	490.	105.6	0.2720	0.52	1.00	3.60	316.0	15.0	303.4	2.0	0	0.00	57.	996.	2	NAD-SFC	NoSubs
7	9	2	245	21	-40.5	0.397	-9.000	-9.000	-999.	601.	137.5	0.2720	0.52	1.00	4.10	316.0	15.0	301.4	2.0	0	0.00	62.	997.	2	NAD-SFC	NoSubs
7	9	2	245	22	-35.5	0.347	-9.000	-9.000	-999.	492.	104.4	0.2720	0.52	1.00	3.60	329.0	15.0	300.2	2.0	0	0.00	65.	997.	2	NAD-SFC	NoSubs
7	9	2	245	23	-36.5	0.355	-9.000	-9.000	-999.	507.	108.7	0.2930	0.52	1.00	3.60	345.0	15.0	299.2	2.0	0	0.00	67.	998.	2	NAD-SFC	NoSubs
7	9	2	245	24	-36.6	0.354	-9.000	-9.000	-999.	507.	108.3	0.2930	0.52	1.00	3.60	347.0	15.0	298.0	2.0	0	0.00	71.	998.	2	NAD-SFC	NoSubs
7	9	3	246	1	-36.8	0.354	-9.000	-9.000	-999.	506.	107.8	0.2930	0.52	1.00	3.60	356.0	15.0	296.8	2.0	0	0.00	74.	998.	2	NAD-SFC	NoSubs
7	9	3	246	2	-31.5	0.303	-9.000	-9.000	-999.	402.	78.6	0.2930	0.52	1.00	3.10	358.0	15.0	295.9	2.0	0	0.00	75.	998.	2	NAD-SFC	NoSubs
7	9	3	246	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	295.2	2.0	0	0.00	75.	999.	2	NAD-SFC	NoSubs
7	9	3	246	4	-25.6	0.252	-9.000	-9.000	-999.	303.	55.5	0.2930	0.52	1.00	2.60	359.0	15.0	294.6	2.0	0	0.00	76.	999.	2	NAD-SFC	NoSubs
7	9	3	246	5	-16.4	0.200	-9.000	-9.000	-999.	215.	43.3	0.2930	0.52	1.00	2.10	351.0	15.0	294.1	2.0	0	0.00	76.	999.	2	NAD-SFC	NoSubs
7	9	3	246	6	-8.2	0.140	-9.000	-9.000	-999.	126.	29.6	0.2930	0.52	1.00	1.50	333.0	15.0	293.8	2.0	0	0.00	76.	1000.	2	NAD-SFC	NoSubs
7	9	3	246	7	9.0	0.279	0.292	0.008	98.	354.	-214.8	0.2930	0.52	0.38	2.60	345.0	15.0	294.0	2.0	0	0.00	71.	1000.	2	NAD-SFC	NoSubs
7	9	3	246	8	56.7	0.209	0.662	0.011	182.	231.	-14.3	0.2930	0.52	0.25	1.50	341.0	15.0	295.2	2.0	0	0.00	64.	1000.	2	NAD-SFC	NoSubs
7	9	3	246	9	100.1	0.111	0.921	0.010	279.	93.	-1.2	0.2720	0.52	0.21	0.50	322.0	15.0	297.4	2.0	0	0.00	57.	1000.	2	NAD-SFC	NoSubs
7	9	3	246	10	134.3	0.115	1.119	0.007	372.	94.	-1.0	0.2720	0.52	0.20	0.50	301.0	15.0	299.2	2.0	0	0.00	51.	999.	2	NAD-SFC	NoSubs
7	9	3	246	11	157.8	-9.000	-9.000	-9.000	539.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.2	2.0	0	0.00	48.	999.	2	NAD-SFC	NoSubs
7	9	3	246	12	169.6	0.119	1.500	0.008	709.	99.	-1.0	0.2720	0.52	0.19	0.50	316.0	15.0	302.6	2.0	0	0.00	44.	998.	2	NAD-SFC	NoSubs
7	9	3	246	13	169.6	0.183	1.620	0.011	893.	188.	-3.2	0.2930	0.52	0.19	1.00	336.0	15.0	303.8	2.0	0	0.00	43.	997.	2	NAD-SFC	NoSubs
7	9	3	246	14	157.8	0.234	1.642	0.011	999.	272.	-7.2	0.2930	0.52	0.19	1.50	355.0	15.0	304.5	2.0	0	0.00	42.	997.	2	NAD-SFC	NoSubs
7	9	3	246	15	134.1	-9.000	-9.000	-9.000	1048.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	304.9	2.0	0	0.00	43.	996.	2	NAD-SFC	NoSubs
7	9	3	246	16	99.7	0.280	1.448	0.011	1082.	356.	-19.6	0.2940	0.52	0.21	2.10	7.0	15.0	305.0	2.0	0	0.00	48.	996.	2	NAD-SFC	NoSubs
7	9	3	246	17	56.3	0.209	1.204	0.011	1101.	231.	-14.4	0.2940	0.52	0.25	1.50	16.0	15.0	304.9	2.0	0	0.00	51.	996.	2	NAD-SFC	NoSubs
7	9	3	246	18	8.9	0.177	0.651	0.011	1102.	179.	-55.3	0.2940	0.52	0.40	1.50	16.0	15.0	304.2	2.0	0	0.00	54.	997.	2	NAD-SFC	NoSubs
7	9	3	246	19	-3.9	0.101	-9.000	-9.000	-999.	79.	23.7	0.2940	0.52	1.00	1.00	5.0	15.0	303.4	2.0	0	0.00	57.	997.	2	NAD-SFC	NoSubs
7	9	3	246	20	-15.6	0.196	-9.000	-9.000	-999.	208.	42.7	0.2720	0.52	1.00	2.10	322.0	15.0	302.4	2.0	0	0.00	60.	997.	2	NAD-SFC	NoSubs
7	9	3	246	21	-35.5	0.347	-9.000	-9.000	-999.	490.	104.7	0.2720	0.52	1.00	3.60	322.0	15.0	301.0	2.0	0	0.00	63.	998.	2	NAD-SFC	NoSubs
7	9	3	246	22	-41.8	0.406	-9.000	-9.000	-999.	620.	142.5	0.2930	0.52	1.00	4.10	340.0	15.0	299.2	2.0	0	0.00	68.	998.	2	NAD-SFC	NoSubs
7	9	3	246	23	-41.0	0.406	-9.000	-9.000	-999.	621.	145.6	0.2930	0.52	1.00	4.10	348.0	15.0	297.8	2.0	0	0.00	73.	999.	3	NAD-SFC	NoSubs
7	9	3	246	24	-35.9	0.355	-9.000	-9.000	-999.	509.	110.6	0.2930	0.52	1.00	3.60	353.0	15.0	296.4	2.0	0	0.00	77.	999.	3	NAD-SFC	NoSubs
7	9	4	247	1	-36.0	0.355	-9.000	-9.000	-999.	507.	110.2	0.2930	0.52	1.00	3.60	343.0	15.0	295.4	2.0	0	0.00	78.	999.	3	NAD-SFC	NoSubs
7	9	4	247	2	-30.9	0.303	-9.000	-9.000	-999.	402.	80.4	0.2930	0.52	1.00	3.10	352.0	15.0	294.5	2.0	0	0.00	79.	999.	3	NAD-SFC	NoSubs
7	9	4	247	3	-25.3	0.252	-9.000	-9.000	-999.	304.	56.2	0.2930	0.52	1.00	2.60	352.0	15.0	293.9	2.0	0	0.00	79.	999.	3	NAD-SFC	NoSubs
7	9	4	247	4	-25.3	0.252	-9.000	-9.000	-999.	303.	56.2	0.2930	0.52	1.00	2.60	351.0	15.0	293.4	2.0	0	0.00	80.	999.	3	NAD-SFC	NoSubs
7	9	4	247	5	-16.3	0.200	-9.000	-9.000	-999.	215.	43.8	0.2930	0.52	1.00	2.10	354.0	15.0	292.9	2.0	0	0.00	81.	999.	3	NAD-SFC	NoSubs
7	9	4	247	6	-8.1	0.140	-9.000	-9.000	-999.	126.	29.9	0.2930	0.52	1.00	1.50	347.0	15.0	292.4	2.0	0	0.00	82.	1000.	3	NAD-SFC	NoSubs
7	9	4	247	7	9.4	0.327	0.325	0.008	130.	449.	-332.4	0.2930	0.52	0.38	3.10	346.0	15.0	292.5	2.0	0	0.00	78.	1000.	3	NAD-SFC	NoSubs
7	9	4	247	8	56.5	0.311	0.743	0.009	258.	416.	-47.5	0.2930	0.52	0.25	2.60	339.0	15.0	293.6	2.0	0	0.00	71.	1000.	3	NAD-SFC	NoSubs
7	9	4	247	9	99.1	0.222	1.006	0.009	366.	255.	-9.9	0.2930	0.52	0.21	1.50	331.0	15.0	294.8	2.0	0	0.00	68.	1000.	3	NAD-SFC	NoSubs
7	9	4	247	10	132.6	0.226	1.219	0.008	488.	257.	-7.7	0.2720	0.52	0.20	1.50	322.0	15.0	296.0	2.0	0	0.00	63.	1000.	3	NAD-SFC	NoSubs
7	9	4	247	11	155.6	0.230	1.382	0.008	604.	265.	-7.0	0.2720	0.52	0.19	1.50	320.0	15.0	297.4	2.0	0	0.00	60.	999.	2	NAD-SFC	NoSubs
7	9	4	247	12	167.2	0.290	1.511	0.008	735.	374.	-13.0	0.2720	0.52	0.19	2.10	329.0	15.0	298.8	2.0	0	0.00	55.	998.	2	NAD-SFC	NoSubs
7	9	4	247	13	167.0	0.342	1.595	0.008	866.	480.	-21.3	0.2930	0.52	0.19	2.60	331.0	15.0	299.8	2.0	0	0.00	52.	998.	2	NAD-SFC	NoSubs
7	9	4	247	14	154.8	0.386	1.617	0.009	972.	574.	-32.9	0.2930	0.52	0.19	3.10	335.0	15.0	300.2	2.0	0	0.00	50.	997.	2	NAD-SFC	NoSubs
7	9	4	247	15	131.0	0.426	1.566	0.009	1043.	667.	-52.5	0.2930	0.52	0.20	3.60	345.0	15.0	300.4	2.0	0	0.00	50.	996.	2	NAD-SFC	NoSubs
7	9	4	247	16	96.3	0.509	1.435	0.009	1092.	871.	-121.7	0.2930	0.52	0.21	4.60	343.0	15.0	300.1	2.0	0	0.00	53.	996.	2	NAD-SFC	NoSubs
7	9	4	247	17	52.5	0.401	1.182	0.009	1116.	619.	-109.2	0.2930	0.52	0.26	3.60	352.0	15.0	299.4	2.0	0	0.00	62.	996.	2	NAD-SFC	NoSubs
7	9	4	247	18	5.0	0.372	0.541	0.009	1116.	545.	-904.8	0.2930	0.52	0.41	3.60	344.0	15.0	298.1	2.0	0	0.00	71.	996.	2	NAD-SFC	NoSubs
7	9	4	247	19	-42.1	0.406	-9.000	-9.000	-999.	620.	141.0	0.2930	0.52	1.00	4.10	334.0	15.0	296.2	2.0	0	0.00	77.	996.	2	NAD-SFC	NoSubs
7	9	4	247	20	-36.0	0.355	-9.000	-9.000	-999.	509.	110.1	0.2930	0.52	1.00	3.60	334.0	15.0	295.1	2.0	0	0.00	80.	996.	3	NAD-SFC	NoSubs
7	9	4	247	21	-30.9	0.303	-9.000	-9.000	-999.	402.	80.3	0.2930	0.52	1.00	3.10	331.0	15.0	294.2	2.0	0	0.00	82.	996.	3	NAD-SFC	NoSubs
7	9	4	247	22	-24.3	0.246	-9.000	-9.000	-999.	295.	54.5	0.2720	0.52	1.00	2.60	325.0	15.0	293.6	2.0	0	0.00	84.	996.	3	NAD-SFC	NoSubs
7	9	4	247	23	-22.2	0.231	-9.000	-9.000	-999.	266.	49.1	0.2160	0.52	1.00	2.60	297.0	15.0	293.1	2.0	0	0.00	84.	996.	2	NAD-SFC	NoSubs
7	9	4	247	24	-14.2	0.183	-9.000	-9.000	-999.	188.	38.3	0.2160	0.52	1.00	2.10	277.0	15.0	292.8	2.0	0	0.00	85.	996.	2	NAD-SFC	NoSubs

7	9	5	248	1	-7.2	0.129	-9.000	-9.000	-999.	111.	26.5	0.2160	0.52	1.00	1.50	294.0	15.0	292.2	2.0	0	0.00	86.	996.	2	NAD-SFC	NoSubs
7	9	5	248	2	-1.6	0.083	-9.000	-9.000	-999.	58.	31.9	0.2720	0.52	1.00	0.50	325.0	15.0	291.8	2.0	0	0.00	87.	995.	2	NAD-SFC	NoSubs
7	9	5	248	3	-1.6	0.083	-9.000	-9.000	-999.	58.	31.9	0.2720	0.52	1.00	0.50	328.0	15.0	291.5	2.0	0	0.00	89.	995.	2	NAD-SFC	NoSubs
7	9	5	248	4	-1.6	0.083	-9.000	-9.000	-999.	58.	31.9	0.2720	0.52	1.00	0.50	317.0	15.0	291.1	2.0	0	0.00	91.	995.	2	NAD-SFC	NoSubs
7	9	5	248	5	-3.9	0.101	-9.000	-9.000	-999.	77.	23.3	0.2720	0.52	1.00	1.00	325.0	15.0	290.8	2.0	0	0.00	93.	995.	2	NAD-SFC	NoSubs
7	9	5	248	6	-3.9	0.101	-9.000	-9.000	-999.	77.	23.3	0.2720	0.52	1.00	1.00	323.0	15.0	290.4	2.0	0	0.00	94.	996.	2	NAD-SFC	NoSubs
7	9	5	248	7	6.9	0.128	0.244	0.005	74.	109.	-26.6	0.2930	0.52	0.38	1.00	332.0	15.0	290.8	2.0	0	0.00	92.	996.	2	NAD-SFC	NoSubs
7	9	5	248	8	54.5	0.102	0.774	0.005	303.	78.	-1.7	0.2720	0.52	0.25	0.50	313.0	15.0	292.2	2.0	0	0.00	83.	997.	2	NAD-SFC	NoSubs
7	9	5	248	9	97.7	-9.000	-9.000	-9.000	530.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	293.9	2.0	0	0.00	74.	997.	2	NAD-SFC	NoSubs
7	9	5	248	10	131.7	-9.000	-9.000	-9.000	726.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	295.5	2.0	0	0.00	67.	996.	2	NAD-SFC	NoSubs
7	9	5	248	11	155.0	-9.000	-9.000	-9.000	862.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.2	2.0	0	0.00	59.	996.	2	NAD-SFC	NoSubs
7	9	5	248	12	166.7	-9.000	-9.000	-9.000	978.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.0	2.0	0	0.00	52.	995.	2	NAD-SFC	NoSubs
7	9	5	248	13	166.5	-9.000	-9.000	-9.000	1020.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.2	2.0	0	0.00	47.	994.	2	NAD-SFC	NoSubs
7	9	5	248	14	154.4	0.120	1.664	0.016	1058.	100.	-1.0	0.2930	0.52	0.19	0.50	330.0	15.0	301.1	2.0	0	0.00	44.	993.	2	NAD-SFC	NoSubs
7	9	5	248	15	130.7	0.178	1.589	0.016	1089.	180.	-3.8	0.2930	0.52	0.20	1.00	345.0	15.0	301.8	2.0	0	0.00	43.	993.	2	NAD-SFC	NoSubs
7	9	5	248	16	96.0	0.222	1.444	0.016	1111.	251.	-10.0	0.2930	0.52	0.21	1.50	351.0	15.0	301.8	2.0	0	0.00	43.	992.	2	NAD-SFC	NoSubs
7	9	5	248	17	52.4	0.263	1.184	0.016	1122.	324.	-30.8	0.2930	0.52	0.26	2.10	358.0	15.0	301.5	2.0	0	0.00	50.	992.	2	NAD-SFC	NoSubs
7	9	5	248	18	5.2	-9.000	-9.000	-9.000	1123.	-999.	-99999.0	0.2235	0.52	0.42	0.00	0.0	15.0	300.9	2.0	0	0.00	54.	993.	2	NAD-SFC	NoSubs
7	9	5	248	19	-31.0	0.304	-9.000	-9.000	-999.	401.	79.8	0.2940	0.52	1.00	3.10	8.0	15.0	299.8	2.0	0	0.00	57.	993.	2	NAD-SFC	NoSubs
7	9	5	248	20	-8.1	0.140	-9.000	-9.000	-999.	148.	29.9	0.2940	0.52	1.00	1.50	7.0	15.0	298.5	2.0	0	0.00	60.	994.	2	NAD-SFC	NoSubs
7	9	5	248	21	-1.5	0.080	-9.000	-9.000	-999.	57.	31.2	0.2160	0.52	1.00	0.50	280.0	15.0	297.2	2.0	0	0.00	65.	994.	2	NAD-SFC	NoSubs
7	9	5	248	22	-28.8	0.278	-9.000	-9.000	-999.	352.	66.1	0.2160	0.52	1.00	3.10	276.0	15.0	295.9	2.0	0	0.00	71.	995.	2	NAD-SFC	NoSubs
7	9	5	248	23	-29.0	0.278	-9.000	-9.000	-999.	352.	65.8	0.2160	0.52	1.00	3.10	294.0	15.0	294.6	2.0	0	0.00	76.	995.	2	NAD-SFC	NoSubs
7	9	5	248	24	-31.0	0.296	-9.000	-9.000	-999.	387.	74.6	0.2720	0.52	1.00	3.10	304.0	15.0	293.8	2.0	0	0.00	79.	995.	2	NAD-SFC	NoSubs
7	9	6	249	1	-24.6	0.246	-9.000	-9.000	-999.	294.	53.7	0.2720	0.52	1.00	2.60	311.0	15.0	293.1	2.0	0	0.00	81.	996.	2	NAD-SFC	NoSubs
7	9	6	249	2	-31.1	0.296	-9.000	-9.000	-999.	387.	74.3	0.2720	0.52	1.00	3.10	318.0	15.0	292.6	2.0	0	0.00	82.	996.	2	NAD-SFC	NoSubs
7	9	6	249	3	-31.2	0.296	-9.000	-9.000	-999.	387.	74.2	0.2720	0.52	1.00	3.10	310.0	15.0	292.0	2.0	0	0.00	84.	996.	2	NAD-SFC	NoSubs
7	9	6	249	4	-24.7	0.246	-9.000	-9.000	-999.	294.	53.5	0.2720	0.52	1.00	2.60	312.0	15.0	291.5	2.0	0	0.00	85.	997.	2	NAD-SFC	NoSubs
7	9	6	249	5	-24.7	0.246	-9.000	-9.000	-999.	293.	53.5	0.2720	0.52	1.00	2.60	305.0	15.0	291.1	2.0	0	0.00	86.	997.	2	NAD-SFC	NoSubs
7	9	6	249	6	-24.8	0.246	-9.000	-9.000	-999.	293.	53.4	0.2720	0.52	1.00	2.60	300.0	15.0	290.8	2.0	0	0.00	87.	998.	2	NAD-SFC	NoSubs
7	9	6	249	7	6.7	0.271	0.206	0.007	47.	339.	-267.0	0.2720	0.52	0.39	2.60	313.0	15.0	291.5	2.0	0	0.00	82.	998.	2	NAD-SFC	NoSubs
7	9	6	249	8	54.5	0.305	0.620	0.007	156.	404.	-46.4	0.2720	0.52	0.25	2.60	312.0	15.0	293.8	2.0	0	0.00	68.	999.	2	NAD-SFC	NoSubs
7	9	6	249	9	97.8	0.218	0.925	0.008	289.	248.	-9.5	0.2720	0.52	0.21	1.50	309.0	15.0	295.8	2.0	0	0.00	60.	999.	2	NAD-SFC	NoSubs
7	9	6	249	10	132.0	0.175	1.197	0.008	463.	176.	-3.6	0.2720	0.52	0.20	1.00	301.0	15.0	297.9	2.0	0	0.00	52.	998.	2	NAD-SFC	NoSubs
7	9	6	249	11	155.5	-9.000	-9.000	-9.000	680.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.9	2.0	0	0.00	45.	998.	2	NAD-SFC	NoSubs
7	9	6	249	12	167.2	-9.000	-9.000	-9.000	788.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.8	2.0	0	0.00	37.	998.	2	NAD-SFC	NoSubs
7	9	6	249	13	167.1	-9.000	-9.000	-9.000	885.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.1	2.0	0	0.00	33.	997.	2	NAD-SFC	NoSubs
7	9	6	249	14	155.1	0.120	1.614	0.008	965.	100.	-1.0	0.2930	0.52	0.19	0.50	341.0	15.0	304.1	2.0	0	0.00	31.	997.	2	NAD-SFC	NoSubs
7	9	6	249	15	131.3	0.178	1.561	0.008	1033.	180.	-3.8	0.2930	0.52	0.20	1.00	346.0	15.0	304.8	2.0	0	0.00	31.	997.	2	NAD-SFC	NoSubs
7	9	6	249	16	96.5	-9.000	-9.000	-9.000	1079.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	304.8	2.0	0	0.00	32.	997.	2	NAD-SFC	NoSubs
7	9	6	249	17	52.6	0.310	1.177	0.008	1103.	413.	-50.1	0.2940	0.52	0.26	2.60	7.0	15.0	304.2	2.0	0	0.00	41.	997.	2	NAD-SFC	NoSubs
7	9	6	249	18	5.4	0.372	0.550	0.008	1103.	544.	-855.0	0.2930	0.52	0.42	3.60	334.0	15.0	303.2	2.0	0	0.00	46.	998.	2	NAD-SFC	NoSubs
7	9	6	249	19	-43.3	0.420	-9.000	-9.000	-999.	653.	152.6	0.2160	0.52	1.00	4.60	293.0	15.0	299.2	2.0	0	0.00	60.	999.	2	NAD-SFC	NoSubs
7	9	6	249	20	-48.7	0.468	-9.000	-9.000	-999.	767.	186.9	0.2160	0.52	1.00	5.10	284.0	15.0	295.8	2.0	0	0.00	73.	999.	2	NAD-SFC	NoSubs
7	9	6	249	21	-49.0	0.467	-9.000	-9.000	-999.	767.	185.8	0.2160	0.52	1.00	5.10	285.0	15.0	294.1	2.0	0	0.00	78.	1000.	2	NAD-SFC	NoSubs
7	9	6	249	22	-39.3	0.372	-9.000	-9.000	-999.	552.	117.5	0.2160	0.52	1.00	4.10	281.0	15.0	293.0	2.0	0	0.00	81.	1001.	2	NAD-SFC	NoSubs
7	9	6	249	23	-31.3	0.296	-9.000	-9.000	-999.	391.	74.3	0.2720	0.52	1.00	3.10	305.0	15.0	292.4	2.0	0	0.00	83.	1002.	2	NAD-SFC	NoSubs
7	9	6	249	24	-31.3	0.303	-9.000	-9.000	-999.	401.	79.6	0.2930	0.52	1.00	3.10	334.0	15.0	292.0	2.0	0	0.00	84.	1002.	3	NAD-SFC	NoSubs
7	9	7	250	1	-31.3	0.303	-9.000	-9.000	-999.	401.	79.6	0.2930	0.52	1.00	3.10	348.0	15.0	291.8	2.0	0	0.00	85.	1002.	3	NAD-SFC	NoSubs
7	9	7	250	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	291.4	2.0	0	0.00	86.	1003.	3	NAD-SFC	NoSubs
7	9	7	250	3	-25.6	0.252	-9.000	-9.000	-999.	304.	56.0	0.2940	0.52	1.00	2.60	13.0	15.0	291.0	2.0	0	0.00	87.	1003.	3	NAD-SFC	NoSubs
7	9	7	250	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	290.8	2.0	0	0.00	88.	1003.	3	NAD-SFC	NoSubs
7	9	7	250	5	-8.2	0.140	-9.000	-9.000	-999.	126.	29.9	0.2940	0.52	1.00	1.50	15.0	15.0	290.5	2.0	0	0.00	89.	1004.	3	NAD-SFC	NoSubs
7	9	7	250	6	-3.7	0.098	-9.000	-9.000	-999.	74.	22.9	0.2470	0.52	1.00	1.00	44.0	15.0	290.2	2.0	0	0.00	90.	1004.	3	NAD-SFC	NoSubs
7	9	7	250	7	7.4	0.079	0.238	0.010	65.	53.	-6.0	0.2720	0.52	0.39	0.50	323.0	15.0	291.1	2.0	0	0.00	87.	1004.	3	NAD-SFC	NoSubs
7	9	7	250	8	53.7	-9.000	-9.000	-9.000	224.	-999.	-99999.0	0.2235	0.52	0.25	0.00	0.0	15.0	293.0	2.0	0	0.00	79.	1004.	2	NAD-SFC	NoSubs
7	9	7	250	9	96.8	-9.000	-9.000	-9.000	367.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	294.8	2.0	0	0.00	71.	1004.	2	NAD-SFC	NoSubs
7	9	7	250	10	130.9	-9.000	-9.000	-9.000	497.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.6	2.0	0	0.00	64.	1004.	2	NAD-SFC	NoSubs
7	9	7	250	11	154.3	-9.000	-9.000	-9.000	617.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.8	2.0	0	0.00	55.	1003.	2	NAD-SFC	NoSubs
7	9	7	250	12	166.0	-9.000	-9.000	-9.000	746.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.4	2.0	0	0.00	48.	1002.	2	NAD-SFC	NoSubs
7	9	7	250	13	165.7	0.119	1.589	0.011	866.	98.	-1.0	0.2720	0.52	0.19	0.50	318.0	15.0	301.8	2.0	0	0.00	42.	1002.	2	NAD-SFC	NoSubs
7	9	7	250	14	153.7	0.120	1.607	0.011	966.	99.	-1.0	0.2930	0.52	0.19	0.50	335.0	15.0	302.9	2.0	0	0.00	38.	1001.	2	NAD-SFC	NoSubs
7	9	7	250	15	129.8	0.229	1.547	0.011	1018.	263.	-8.2	0.2930	0.52	0.20	1.50	345.0	15.0	303.6	2.0	0	0.00	36.	1000.	2	NAD-SFC	NoSubs
7	9	7	250	16	95.1	0.279	1.410	0.011	1053.	353.	-20.3	0.2940	0.52	0.21	2.10	5.0	15.0	304.0	2.0	0	0.00	33.	1000.	2	NAD-SFC	NoSubs
7	9	7	250	17	51.1	0.309	1.153	0.011	1071.	412.	-51.4	0.2940	0.52	0.26	2.60	6.0	15.0	303.4	2.0	0	0.00	44.	1000.	2	NAD-SFC	NoSubs
7	9	7	250	18	3.9	0.371	0.491	0.011	1071.	542.	-1151.3	0.2940	0.52	0.43	3.60	11.0	15.0	302.4	2.0	0	0.00	48.	1000.	2	NAD-SFC	NoSubs
7	9	7	250	19	-35.6	0.347	-9.000	-9.000	-999.	491.	104.7	0.2720	0.52	1.00	3.60	328.0	15.0	301.0	2.0	0	0.00	52.	1001.	2	NAD-SFC	NoSubs
7	9	7	250	20	-43.6	0.420	-9.000	-9.000	-999.	653.	151.5	0.2160	0.52	1.00	4.60	289.0	15.0	297.2	2.0	0	0.00	65.	1001.	2	NAD-SFC	NoSubs
7	9	7	250	21	-41.7	0.398	-9.000	-9.000	-999.	603.	134.7	0.1750	0.52	1.00	4.60	266.0	15.0	294.5	2.0	0	0.00	74.	1001.	2	NAD-SFC	NoSubs
7	9	7	250	22	-44.3	0.420	-9.000	-9.000	-999.	653.	149.4	0.2160	0.52	1.00	4.60	285.0	15.0	293.2	2.0	0	0.00	78.	1002.	2	NAD-SFC	NoSubs
7	9	7	250	23	-39.4	0.372	-9.000	-9.000	-999.	547.	117.2	0.2160	0.52	1.00	4.10	278.0	15.0	292.2	2.0	0	0.00	81.	1002.	2	NAD-SFC	NoSubs
7	9	7	250	24	-29.5	0.278	-9.000	-9.000	-999.	357.	65.1	0.2160	0.52	1.00	3.10	297.0	15.0	291.5	2.0	0	0.00	82.	1003.	2	NAD-SFC	NoSubs
7	9	8	251	1	-25.5	0.252	-9.000	-9.000	-999.	303.	55.9	0.2930	0.52	1.00	2.60	339.0	15.0	291.1	2.0	0	0.00	83.	1003.	3	NAD-SFC	NoSubs
7	9	8	251	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	290.6	2.0	0	0.00	83.	1003.	3	NAD-SFC	NoSubs
7	9	8	251	3	-16.4	0.200	-9.000	-9.000	-999.	215.	43.6	0.2930	0.52	1.00	2.10	356.0	15.0	290.1	2.0	0	0.00	83.	1003.	3	NAD-SFC	NoSubs
7	9	8	251	4	-16.4	0.200	-9.000	-9.000	-999.	215.	43.6	0.2930	0.52	1.00	2.10	347.0	15.0	289.9	2.0	0	0.00	82.	1003.	3	NAD-SFC	NoSubs
7	9	8	251	5	-8.2	0.140	-9.000	-9.000	-999.	126.	29.8	0.2930	0.52	1.00	1.50	340.0	15.0	289.8	2.0	0	0.00	82.	1003.	3	NAD-SFC	NoSubs

7	9	8	251	6	-1.6	0.083	-9.000	-9.000	-999.	58.	31.8	0.2940	0.52	1.00	0.50	9.0	15.0	289.5	2.0	0	0.00	82.	1003.	3	NAD-SFC	NoSubs
7	9	8	251	7	5.2	0.077	0.209	0.011	62.	51.	-7.8	0.2930	0.52	0.39	0.50	346.0	15.0	290.1	2.0	0	0.00	79.	1004.	2	NAD-SFC	NoSubs
7	9	8	251	8	52.7	-9.000	-9.000	-9.000	177.	-999.	-99999.0	0.2235	0.52	0.25	0.00	0.0	15.0	291.9	2.0	0	0.00	71.	1003.	2	NAD-SFC	NoSubs
7	9	8	251	9	95.9	-9.000	-9.000	-9.000	312.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	293.8	2.0	0	0.00	64.	1003.	2	NAD-SFC	NoSubs
7	9	8	251	10	129.9	-9.000	-9.000	-9.000	471.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	295.6	2.0	0	0.00	60.	1002.	2	NAD-SFC	NoSubs
7	9	8	251	11	153.2	-9.000	-9.000	-9.000	640.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.6	2.0	0	0.00	55.	1002.	2	NAD-SFC	NoSubs
7	9	8	251	12	164.8	-9.000	-9.000	-9.000	783.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.4	2.0	0	0.00	49.	1000.	2	NAD-SFC	NoSubs
7	9	8	251	13	164.6	0.119	1.610	0.010	904.	98.	-1.0	0.2720	0.52	0.19	0.50	310.0	15.0	301.0	2.0	0	0.00	45.	999.	2	NAD-SFC	NoSubs
7	9	8	251	14	152.4	0.181	1.619	0.011	993.	184.	-3.5	0.2930	0.52	0.19	1.00	335.0	15.0	302.1	2.0	0	0.00	42.	999.	2	NAD-SFC	NoSubs
7	9	8	251	15	128.4	0.229	1.557	0.011	1047.	262.	-8.3	0.2930	0.52	0.20	1.50	352.0	15.0	302.8	2.0	0	0.00	40.	998.	2	NAD-SFC	NoSubs
7	9	8	251	16	93.5	0.324	1.418	0.011	1085.	443.	-32.4	0.2940	0.52	0.21	2.60	9.0	15.0	302.9	2.0	0	0.00	41.	997.	2	NAD-SFC	NoSubs
7	9	8	251	17	49.3	0.308	1.152	0.011	1102.	411.	-52.7	0.2940	0.52	0.26	2.60	22.0	15.0	302.2	2.0	0	0.00	51.	997.	2	NAD-SFC	NoSubs
7	9	8	251	18	2.6	0.306	0.430	0.011	1102.	406.	-997.7	0.2470	0.52	0.44	3.10	33.0	15.0	301.6	2.0	0	0.00	55.	998.	2	NAD-SFC	NoSubs
7	9	8	251	19	-24.1	0.246	-9.000	-9.000	-999.	295.	55.3	0.2720	0.52	1.00	2.60	317.0	15.0	300.6	2.0	0	0.00	57.	999.	3	NAD-SFC	NoSubs
7	9	8	251	20	-47.3	0.468	-9.000	-9.000	-999.	768.	192.8	0.2160	0.52	1.00	5.10	280.0	15.0	297.0	2.0	0	0.00	68.	1000.	3	NAD-SFC	NoSubs
7	9	8	251	21	-41.7	0.398	-9.000	-9.000	-999.	606.	134.7	0.1750	0.52	1.00	4.60	269.0	15.0	294.4	2.0	0	0.00	71.	1000.	2	NAD-SFC	NoSubs
7	9	8	251	22	-39.2	0.372	-9.000	-9.000	-999.	546.	117.7	0.2160	0.52	1.00	4.10	285.0	15.0	293.4	2.0	0	0.00	74.	1000.	2	NAD-SFC	NoSubs
7	9	8	251	23	-22.3	0.231	-9.000	-9.000	-999.	279.	49.1	0.2160	0.52	1.00	2.60	292.0	15.0	292.8	2.0	0	0.00	74.	1001.	2	NAD-SFC	NoSubs
7	9	8	251	24	-15.7	0.196	-9.000	-9.000	-999.	208.	42.5	0.2720	0.52	1.00	2.10	325.0	15.0	292.2	2.0	0	0.00	73.	1001.	3	NAD-SFC	NoSubs
7	9	9	252	1	-16.3	0.200	-9.000	-9.000	-999.	215.	43.7	0.2930	0.52	1.00	2.10	359.0	15.0	291.8	2.0	0	0.00	73.	1001.	3	NAD-SFC	NoSubs
7	9	9	252	2	-3.9	0.102	-9.000	-9.000	-999.	82.	23.7	0.2930	0.52	1.00	1.00	359.0	15.0	291.4	2.0	0	0.00	73.	1001.	3	NAD-SFC	NoSubs
7	9	9	252	3	-1.6	0.083	-9.000	-9.000	-999.	58.	31.8	0.2930	0.52	1.00	0.50	338.0	15.0	291.0	2.0	0	0.00	73.	1001.	3	NAD-SFC	NoSubs
7	9	9	252	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	290.8	2.0	0	0.00	72.	1001.	3	NAD-SFC	NoSubs
7	9	9	252	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	290.6	2.0	0	0.00	72.	1002.	3	NAD-SFC	NoSubs
7	9	9	252	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	290.4	2.0	0	0.00	73.	1002.	3	NAD-SFC	NoSubs
7	9	9	252	7	6.3	-9.000	-9.000	-9.000	58.	-999.	-99999.0	0.2235	0.52	0.40	0.00	0.0	15.0	290.8	2.0	0	0.00	72.	1003.	3	NAD-SFC	NoSubs
7	9	9	252	8	53.4	-9.000	-9.000	-9.000	185.	-999.	-99999.0	0.2235	0.52	0.25	0.00	0.0	15.0	292.8	2.0	0	0.00	64.	1003.	3	NAD-SFC	NoSubs
7	9	9	252	9	95.6	-9.000	-9.000	-9.000	350.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	294.5	2.0	0	0.00	60.	1003.	2	NAD-SFC	NoSubs
7	9	9	252	10	129.6	-9.000	-9.000	-9.000	536.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.2	2.0	0	0.00	57.	1002.	2	NAD-SFC	NoSubs
7	9	9	252	11	152.8	-9.000	-9.000	-9.000	707.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.2	2.0	0	0.00	53.	1002.	2	NAD-SFC	NoSubs
7	9	9	252	12	164.4	-9.000	-9.000	-9.000	855.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.9	2.0	0	0.00	49.	1001.	2	NAD-SFC	NoSubs
7	9	9	252	13	163.9	0.119	1.649	0.012	977.	98.	-1.0	0.2720	0.52	0.19	0.50	315.0	15.0	301.2	2.0	0	0.00	45.	1000.	2	NAD-SFC	NoSubs
7	9	9	252	14	151.7	0.181	1.637	0.012	1031.	184.	-3.5	0.2930	0.52	0.19	1.00	335.0	15.0	302.4	2.0	0	0.00	42.	999.	2	NAD-SFC	NoSubs
7	9	9	252	15	127.5	0.287	1.567	0.012	1075.	368.	-16.4	0.2940	0.52	0.20	2.10	4.0	15.0	303.0	2.0	0	0.00	41.	998.	2	NAD-SFC	NoSubs
7	9	9	252	16	92.5	0.370	1.420	0.012	1104.	540.	-48.8	0.2940	0.52	0.21	3.10	15.0	15.0	303.0	2.0	0	0.00	42.	998.	2	NAD-SFC	NoSubs
7	9	9	252	17	49.4	0.308	1.158	0.012	1120.	412.	-52.6	0.2940	0.52	0.27	2.60	21.0	15.0	302.6	2.0	0	0.00	52.	998.	3	NAD-SFC	NoSubs
7	9	9	252	18	3.2	0.412	0.465	0.012	1119.	634.	-1951.7	0.2720	0.52	0.44	4.10	325.0	15.0	301.9	2.0	0	0.00	53.	999.	3	NAD-SFC	NoSubs
7	9	9	252	19	-47.2	0.468	-9.000	-9.000	-999.	767.	193.3	0.2160	0.52	1.00	5.10	279.0	15.0	297.8	2.0	0	0.00	62.	1000.	3	NAD-SFC	NoSubs
7	9	9	252	20	-45.2	0.443	-9.000	-9.000	-999.	709.	171.7	0.1750	0.52	1.00	5.10	269.0	15.0	294.8	2.0	0	0.00	62.	1001.	3	NAD-SFC	NoSubs
7	9	9	252	21	-38.2	0.373	-9.000	-9.000	-999.	550.	120.8	0.2160	0.52	1.00	4.10	279.0	15.0	293.2	2.0	0	0.00	65.	1001.	3	NAD-SFC	NoSubs
7	9	9	252	22	-28.7	0.278	-9.000	-9.000	-999.	357.	67.1	0.2160	0.52	1.00	3.10	289.0	15.0	292.4	2.0	0	0.00	66.	1002.	3	NAD-SFC	NoSubs
7	9	9	252	23	-7.9	0.137	-9.000	-9.000	-999.	136.	29.1	0.2720	0.52	1.00	1.50	323.0	15.0	292.2	2.0	0	0.00	64.	1003.	3	NAD-SFC	NoSubs
7	9	9	252	24	-8.2	0.140	-9.000	-9.000	-999.	126.	29.9	0.2940	0.52	1.00	1.50	10.0	15.0	291.8	2.0	0	0.00	63.	1003.	3	NAD-SFC	NoSubs
7	9	10	253	1	-7.5	0.133	-9.000	-9.000	-999.	117.	28.1	0.2470	0.52	1.00	1.50	35.0	15.0	291.5	2.0	0	0.00	64.	1003.	3	NAD-SFC	NoSubs
7	9	10	253	2	-4.0	0.102	-9.000	-9.000	-999.	78.	23.7	0.2940	0.52	1.00	1.00	29.0	15.0	291.1	2.0	0	0.00	64.	1004.	3	NAD-SFC	NoSubs
7	9	10	253	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	290.8	2.0	0	0.00	64.	1004.	3	NAD-SFC	NoSubs
7	9	10	253	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	290.6	2.0	0	0.00	64.	1004.	3	NAD-SFC	NoSubs
7	9	10	253	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	290.4	2.0	0	0.00	64.	1004.	3	NAD-SFC	NoSubs
7	9	10	253	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	290.0	2.0	0	0.00	68.	1005.	3	NAD-SFC	NoSubs
7	9	10	253	7	4.2	-9.000	-9.000	-9.000	47.	-999.	-99999.0	0.2235	0.52	0.40	0.00	0.0	15.0	290.2	2.0	0	0.00	69.	1005.	2	NAD-SFC	NoSubs
7	9	10	253	8	51.7	-9.000	-9.000	-9.000	188.	-999.	-99999.0	0.2235	0.52	0.25	0.00	0.0	15.0	292.5	2.0	0	0.00	58.	1006.	2	NAD-SFC	NoSubs
7	9	10	253	9	95.0	-9.000	-9.000	-9.000	362.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	294.4	2.0	0	0.00	52.	1005.	2	NAD-SFC	NoSubs
7	9	10	253	10	128.9	-9.000	-9.000	-9.000	556.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.1	2.0	0	0.00	50.	1005.	2	NAD-SFC	NoSubs
7	9	10	253	11	152.0	-9.000	-9.000	-9.000	712.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.8	2.0	0	0.00	48.	1005.	2	NAD-SFC	NoSubs
7	9	10	253	12	163.3	-9.000	-9.000	-9.000	831.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.1	2.0	0	0.00	46.	1004.	2	NAD-SFC	NoSubs
7	9	10	253	13	162.7	0.121	1.619	0.012	935.	101.	-1.0	0.2940	0.52	0.19	0.50	1.0	15.0	300.2	2.0	0	0.00	44.	1003.	2	NAD-SFC	NoSubs
7	9	10	253	14	150.2	0.119	1.615	0.012	1004.	99.	-1.0	0.2940	0.52	0.19	0.50	6.0	15.0	301.2	2.0	0	0.00	43.	1002.	2	NAD-SFC	NoSubs
7	9	10	253	15	126.0	0.228	1.547	0.012	1049.	262.	-8.4	0.2940	0.52	0.20	1.50	16.0	15.0	301.9	2.0	0	0.00	42.	1001.	2	NAD-SFC	NoSubs
7	9	10	253	16	90.9	0.277	1.401	0.012	1080.	350.	-20.9	0.2940	0.52	0.21	2.10	28.0	15.0	302.1	2.0	0	0.00	42.	1001.	2	NAD-SFC	NoSubs
7	9	10	253	17	46.9	0.197	1.128	0.012	1095.	213.	-14.6	0.2470	0.52	0.27	1.50	40.0	15.0	301.9	2.0	0	0.00	49.	1001.	2	NAD-SFC	NoSubs
7	9	10	253	18	0.4	0.149	0.228	0.012	1095.	138.	-766.0	0.2470	0.52	0.45	1.50	46.0	15.0	301.2	2.0	0	0.00	51.	1001.	2	NAD-SFC	NoSubs
7	9	10	253	19	-1.5	0.080	-9.000	-9.000	-999.	56.	31.1	0.2160	0.52	1.00	0.50	283.0	15.0	300.2	2.0	0	0.00	55.	1002.	2	NAD-SFC	NoSubs
7	9	10	253	20	-43.5	0.420	-9.000	-9.000	-999.	653.	152.1	0.2160	0.52	1.00	4.60	278.0	15.0	298.2	2.0	0	0.00	61.	1002.	2	NAD-SFC	NoSubs
7	9	10	253	21	-39.1	0.373	-9.000	-9.000	-999.	547.	118.2	0.2160	0.52	1.00	4.10	285.0	15.0	294.8	2.0	0	0.00	72.	1003.	2	NAD-SFC	NoSubs
7	9	10	253	22	-34.3	0.325	-9.000	-9.000	-999.	447.	89.8	0.2160	0.52	1.00	3.60	284.0	15.0	293.5	2.0	0	0.00	74.	1003.	2	NAD-SFC	NoSubs
7	9	10	253	23	-22.3	0.231	-9.000	-9.000	-999.	270.	49.1	0.2160	0.52	1.00	2.60	290.0	15.0	293.0	2.0	0	0.00	75.	1003.	2	NAD-SFC	NoSubs
7	9	10	253	24	-8.0	0.137	-9.000	-9.000	-999.	125.	28.8	0.2720	0.52	1.00	1.50	309.0	15.0	292.8	2.0	0	0.00	74.	1003.	2	NAD-SFC	NoSubs
7	9	11	254	1	-7.2	0.129	-9.000	-9.000	-999.	111.	26.5	0.2160	0.52	1.00	1.50	299.0	15.0	292.6	2.0	0	0.00	74.	1003.	2	NAD-SFC	NoSubs
7	9	11	254	2	-3.6	0.097	-9.000	-9.000	-999.	72.	22.4	0.2160	0.52	1.00	1.00	298.0	15.0	292.4	2.0	0	0.00	75.	1004.	2	NAD-SFC	NoSubs
7	9	11	254	3	-3.9	0.101	-9.000	-9.000	-999.	77.	23.3	0.2720	0.52	1.00	1.00	319.0	15.0	292.1	2.0	0	0.00	78.	1004.	2	NAD-SFC	NoSubs
7	9	11	254	4	-1.7	0.084	-9.000	-9.000	-999.	58.	32.0	0.2930	0.52	1.00	0.50	333.0	15.0	291.8	2.0	0	0.00	81.	1004.	2	NAD-SFC	NoSubs
7	9	11	254	5	-1.7	0.084	-9.000	-9.000	-999.	58.	32.0	0.2930	0.52	1.00	0.50	345.0	15.0	291.2	2.0	0	0.00	83.	1005.	2	NAD-SFC	NoSubs
7	9	11	254	6	-1.7	0.084	-9.000	-9.000	-999.	59.	32.0	0.2930	0.52	1.00	0.50	354.0	15.0	290.9	2.0	0	0.00	86.	1006.	2	NAD-SFC	NoSubs
7	9	11	254	7	3.9	-9.000	-9.000	-9.000	53.	-999.	-99999.0	0.2235	0.52	0.40	0.00	0.0	15.0	291.0	2.0	0	0.00	86.	1006.	2	NAD-SFC	NoSubs
7	9	11	254	8	51.3	0.155	0.706	0.010	246.	147.	-6.6	0.2720	0.52	0.25	1.00	328.0	15.0	292.9	2.0	0	0.00	74.	1006.	2	NAD-SFC	NoSubs
7	9	11	254	9	94.4	0.110	0.963	0.008	339.	88.	-1.3	0.2720	0.52	0.21	0.50	303.0	15.0	294.4	2.0	0	0.00	67.	1006.	2	NAD-SFC	NoSubs
7	9	11	254	10	128.3	-9.000	-9.000	-9.000	469.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.0	2.0	0	0.00	61.	1005.	2	NAD-SFC	NoSubs

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 7  9 11 254 11   151.3 -9.000 -9.000 -9.000  616. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 297.8  2.0    0  0.00   54.  1005.     2 NAD-SFC NoSubs
 7  9 11 254 12   162.6  0.121  1.510  0.011  759.  101.     -1.0 0.2930  0.52  0.19  0.50  335.0  15.0 299.2  2.0    0  0.00   50.  1004.     2 NAD-SFC NoSubs
 7  9 11 254 13   162.0  0.182  1.588  0.012  885.  186.     -3.3 0.2930  0.52  0.19  1.00  336.0  15.0 300.5  2.0    0  0.00   47.  1003.     2 NAD-SFC NoSubs
 7  9 11 254 14   149.5  0.181  1.600  0.012  980.  184.     -3.5 0.2930  0.52  0.19  1.00  346.0  15.0 301.5  2.0    0  0.00   44.  1002.     2 NAD-SFC NoSubs
 7  9 11 254 15   125.1  0.228  1.528  0.012 1020.  261.     -8.5 0.2940  0.52  0.20  1.50    3.0  15.0 302.0  2.0    0  0.00   43.  1002.     2 NAD-SFC NoSubs
 7  9 11 254 16    89.9  0.277  1.382  0.012 1049.  350.    -21.1 0.2940  0.52  0.21  2.10   13.0  15.0 302.2  2.0    0  0.00   43.  1001.     2 NAD-SFC NoSubs
 7  9 11 254 17    45.7  0.260  1.108  0.012 1062.  318.    -34.4 0.2940  0.52  0.27  2.10   22.0  15.0 301.9  2.0    0  0.00   50.  1001.     2 NAD-SFC NoSubs
 7  9 11 254 18     0.9  0.267  0.300  0.012 1061.  330. -1864.8 0.2940  0.52  0.46  2.60   29.0  15.0 301.2  2.0    0  0.00   52.  1002.     3 NAD-SFC NoSubs
 7  9 11 254 19    -8.1  0.140 -9.000 -9.000 -999.  135.    30.4 0.2940  0.52  1.00  1.50   13.0  15.0 300.1  2.0    0  0.00   56.  1002.     3 NAD-SFC NoSubs
 7  9 11 254 20   -28.1  0.278 -9.000 -9.000 -999.  352.    68.7 0.2160  0.52  1.00  3.10  276.0  15.0 298.8  2.0    0  0.00   60.  1002.     3 NAD-SFC NoSubs
 7  9 11 254 21   -42.9  0.420 -9.000 -9.000 -999.  653.   154.6 0.2160  0.52  1.00  4.60  272.0  15.0 295.2  2.0    0  0.00   71.  1002.     3 NAD-SFC NoSubs
 7  9 11 254 22   -43.2  0.420 -9.000 -9.000 -999.  653.   153.5 0.2160  0.52  1.00  4.60  278.0  15.0 293.2  2.0    0  0.00   76.  1003.     3 NAD-SFC NoSubs
 7  9 11 254 23   -35.7  0.347 -9.000 -9.000 -999.  494.   104.5 0.2720  0.52  1.00  3.60  301.0  15.0 292.6  2.0    0  0.00   78.  1003.     3 NAD-SFC NoSubs
 7  9 11 254 24   -30.6  0.297 -9.000 -9.000 -999.  389.    76.3 0.2720  0.52  1.00  3.10  325.0  15.0 292.2  2.0    0  0.00   79.  1003.     3 NAD-SFC NoSubs
 7  9 12 255  1   -31.3  0.303 -9.000 -9.000 -999.  401.    79.6 0.2930  0.52  1.00  3.10  340.0  15.0 292.0  2.0    0  0.00   81.  1004.     3 NAD-SFC NoSubs
 7  9 12 255  2   -25.5  0.252 -9.000 -9.000 -999.  304.    56.0 0.2930  0.52  1.00  2.60  355.0  15.0 291.5  2.0    0  0.00   84.  1004.     3 NAD-SFC NoSubs
 7  9 12 255  3   -16.4  0.200 -9.000 -9.000 -999.  215.    43.7 0.2930  0.52  1.00  2.10  343.0  15.0 290.9  2.0    0  0.00   86.  1005.     3 NAD-SFC NoSubs
 7  9 12 255  4    -7.9  0.137 -9.000 -9.000 -999.  122.    29.0 0.2720  0.52  1.00  1.50  326.0  15.0 290.2  2.0    0  0.00   86.  1005.     3 NAD-SFC NoSubs
 7  9 12 255  5    -7.9  0.137 -9.000 -9.000 -999.  121.    29.0 0.2720  0.52  1.00  1.50  308.0  15.0 289.8  2.0    0  0.00   86.  1005.     3 NAD-SFC NoSubs
 7  9 12 255  6    -3.9  0.100 -9.000 -9.000 -999.   76.    23.3 0.2720  0.52  1.00  1.00  306.0  15.0 289.2  2.0    0  0.00   86.  1006.     3 NAD-SFC NoSubs
 7  9 12 255  7     4.3  0.165  0.255  0.009  138.  161.   -94.8 0.2720  0.52  0.40  1.50  327.0  15.0 289.2  2.0    0  0.00   83.  1006.     3 NAD-SFC NoSubs
 7  9 12 255  8    50.9  0.101  0.740  0.009  286.   78.    -1.8 0.2720  0.52  0.25  0.50  329.0  15.0 290.4  2.0    0  0.00   75.  1007.     3 NAD-SFC NoSubs
 7  9 12 255  9    93.5 -9.000 -9.000 -9.000  408. -999. -99999.0 0.2235  0.52  0.21  0.00    0.0  15.0 291.8  2.0    0  0.00   69.  1006.     3 NAD-SFC NoSubs
 7  9 12 255 10   126.7 -9.000 -9.000 -9.000  524. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 293.5  2.0    0  0.00   65.  1006.     2 NAD-SFC NoSubs
 7  9 12 255 11   149.7 -9.000 -9.000 -9.000  635. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 295.2  2.0    0  0.00   62.  1005.     2 NAD-SFC NoSubs
 7  9 12 255 12   160.9 -9.000 -9.000 -9.000  751. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 296.8  2.0    0  0.00   57.  1004.     2 NAD-SFC NoSubs
 7  9 12 255 13   160.3 -9.000 -9.000 -9.000  855. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 298.4  2.0    0  0.00   51.  1003.     2 NAD-SFC NoSubs
 7  9 12 255 14   147.6  0.117  1.571  0.011  941.   96.    -1.0 0.2720  0.52  0.19  0.50  328.0  15.0 299.4  2.0    0  0.00   46.  1003.     2 NAD-SFC NoSubs
 7  9 12 255 15   123.2  0.176  1.511  0.012 1001.  177.    -4.0 0.2930  0.52  0.20  1.00  343.0  15.0 300.0  2.0    0  0.00   43.  1002.     2 NAD-SFC NoSubs
 7  9 12 255 16    88.0  0.219  1.367  0.012 1039.  247.   -10.7 0.2940  0.52  0.22  1.50   19.0  15.0 300.4  2.0    0  0.00   48.  1002.     2 NAD-SFC NoSubs
 7  9 12 255 17    43.7  0.196  1.090  0.013 1057.  209.   -15.4 0.2470  0.52  0.27  1.50   44.0  15.0 300.2  2.0    0  0.00   53.  1001.     2 NAD-SFC NoSubs
 7  9 12 255 18    -4.1  0.250 -9.000 -9.000 -999.  300.   340.7 0.2470  0.52  0.47  2.60   54.0  15.0 299.8  2.0    0  0.00   57.  1002.     2 NAD-SFC NoSubs
 7  9 12 255 19    -3.9  0.101 -9.000 -9.000 -999.   97.    23.7 0.2940  0.52  1.00  1.00   13.0  15.0 298.6  2.0    0  0.00   61.  1003.     3 NAD-SFC NoSubs
 7  9 12 255 20   -42.8  0.420 -9.000 -9.000 -999.  654.   155.1 0.2160  0.52  1.00  4.60  278.0  15.0 296.1  2.0    0  0.00   65.  1004.     3 NAD-SFC NoSubs
 7  9 12 255 21   -41.0  0.398 -9.000 -9.000 -999.  603.   137.6 0.1750  0.52  1.00  4.60  269.0  15.0 292.9  2.0    0  0.00   72.  1004.     3 NAD-SFC NoSubs
 7  9 12 255 22   -43.5  0.420 -9.000 -9.000 -999.  653.   152.6 0.2160  0.52  1.00  4.60  270.0  15.0 291.6  2.0    0  0.00   76.  1005.     3 NAD-SFC NoSubs
 7  9 12 255 23   -38.7  0.373 -9.000 -9.000 -999.  548.   119.8 0.2160  0.52  1.00  4.10  289.0  15.0 290.9  2.0    0  0.00   79.  1005.     3 NAD-SFC NoSubs
 7  9 12 255 24   -32.6  0.326 -9.000 -9.000 -999.  447.    94.8 0.2160  0.52  1.00  3.60  297.0  15.0 290.4  2.0    0  0.00   81.  1005.     4 NAD-SFC NoSubs
 7  9 13 256  1   -29.8  0.297 -9.000 -9.000 -999.  389.    78.7 0.2720  0.52  1.00  3.10  320.0  15.0 290.1  2.0    0  0.00   82.  1006.     4 NAD-SFC NoSubs
 7  9 13 256  2   -24.3  0.246 -9.000 -9.000 -999.  295.    55.3 0.2720  0.52  1.00  2.60  320.0  15.0 289.8  2.0    0  0.00   83.  1006.     4 NAD-SFC NoSubs
 7  9 13 256  3   -23.6  0.247 -9.000 -9.000 -999.  294.    57.2 0.2720  0.52  1.00  2.60  316.0  15.0 289.8  2.0    0  0.00   84.  1006.     5 NAD-SFC NoSubs
 7  9 13 256  4   -23.6  0.247 -9.000 -9.000 -999.  294.    57.1 0.2720  0.52  1.00  2.60  317.0  15.0 289.5  2.0    0  0.00   84.  1007.     5 NAD-SFC NoSubs
 7  9 13 256  5   -15.6  0.196 -9.000 -9.000 -999.  209.    43.1 0.2720  0.52  1.00  2.10  320.0  15.0 289.2  2.0    0  0.00   85.  1007.     4 NAD-SFC NoSubs
 7  9 13 256  6   -15.6  0.196 -9.000 -9.000 -999.  208.    43.1 0.2720  0.52  1.00  2.10  317.0  15.0 289.0  2.0    0  0.00   86.  1008.     4 NAD-SFC NoSubs
 7  9 13 256  7     3.6  0.223  0.278  0.008  213.  253.  -275.6 0.2930  0.52  0.41  2.10  345.0  15.0 288.8  2.0    0  0.00   87.  1008.     3 NAD-SFC NoSubs
 7  9 13 256  8    49.9  0.262  0.789  0.009  354.  321.   -32.3 0.2930  0.52  0.26  2.10  351.0  15.0 288.9  2.0    0  0.00   83.  1008.     3 NAD-SFC NoSubs
 7  9 13 256  9    92.3 -9.000 -9.000 -9.000  465. -999. -99999.0 0.2235  0.52  0.21  0.00    0.0  15.0 289.8  2.0    0  0.00   78.  1008.     3 NAD-SFC NoSubs
 7  9 13 256 10   125.3 -9.000 -9.000 -9.000  567. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 290.9  2.0    0  0.00   74.  1008.     2 NAD-SFC NoSubs
 7  9 13 256 11   148.1 -9.000 -9.000 -9.000  672. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 292.4  2.0    0  0.00   70.  1007.     2 NAD-SFC NoSubs
 7  9 13 256 12   159.2 -9.000 -9.000 -9.000  785. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 294.1  2.0    0  0.00   64.  1006.     2 NAD-SFC NoSubs
 7  9 13 256 13   158.4 -9.000 -9.000 -9.000  883. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 295.8  2.0    0  0.00   56.  1006.     2 NAD-SFC NoSubs
 7  9 13 256 14   145.7 -9.000 -9.000 -9.000  966. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 296.9  2.0    0  0.00   51.  1005.     2 NAD-SFC NoSubs
 7  9 13 256 15   121.1 -9.000 -9.000 -9.000 1059. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 297.6  2.0    0  0.00   48.  1004.     2 NAD-SFC NoSubs
 7  9 13 256 16    85.8  0.219  1.390  0.010 1122.  246.   -10.9 0.2940  0.52  0.22  1.50   11.0  15.0 297.9  2.0    0  0.00   47.  1003.     2 NAD-SFC NoSubs
 7  9 13 256 17    41.4  0.304  1.100  0.011 1150.  402.   -60.6 0.2940  0.52  0.27  2.60   19.0  15.0 297.6  2.0    0  0.00   54.  1003.     2 NAD-SFC NoSubs
 7  9 13 256 18   -11.2  0.364 -9.000 -9.000 -999.  527.   385.9 0.2940  0.52  0.48  3.60   23.0  15.0 296.4  2.0    0  0.00   62.  1003.     2 NAD-SFC NoSubs
 7  9 13 256 19   -36.3  0.355 -9.000 -9.000 -999.  508.   110.1 0.2940  0.52  1.00  3.60   29.0  15.0 294.8  2.0    0  0.00   69.  1004.     3 NAD-SFC NoSubs
 7  9 13 256 20   -25.5  0.252 -9.000 -9.000 -999.  309.    56.3 0.2940  0.52  1.00  2.60   24.0  15.0 294.0  2.0    0  0.00   71.  1004.     3 NAD-SFC NoSubs
 7  9 13 256 21    -3.9  0.101 -9.000 -9.000 -999.   99.    23.7 0.2930  0.52  1.00  1.00  336.0  15.0 293.2  2.0    0  0.00   73.  1004.     3 NAD-SFC NoSubs
 7  9 13 256 22   -14.2  0.183 -9.000 -9.000 -999.  188.    38.8 0.2160  0.52  1.00  2.10  288.0  15.0 292.4  2.0    0  0.00   76.  1005.     3 NAD-SFC NoSubs
 7  9 13 256 23   -30.7  0.297 -9.000 -9.000 -999.  388.    76.1 0.2720  0.52  1.00  3.10  304.0  15.0 291.5  2.0    0  0.00   78.  1005.     3 NAD-SFC NoSubs
 7  9 13 256 24   -36.1  0.347 -9.000 -9.000 -999.  490.   103.7 0.2720  0.52  1.00  3.60  307.0  15.0 290.6  2.0    0  0.00   81.  1005.     3 NAD-SFC NoSubs
 7  9 14 257  1   -36.2  0.347 -9.000 -9.000 -999.  490.   103.3 0.2720  0.52  1.00  3.60  326.0  15.0 289.5  2.0    0  0.00   85.  1005.     3 NAD-SFC NoSubs
 7  9 14 257  2   -31.7  0.303 -9.000 -9.000 -999.  402.    78.7 0.2930  0.52  1.00  3.10  350.0  15.0 288.8  2.0    0  0.00   90.  1005.     3 NAD-SFC NoSubs
 7  9 14 257  3   -25.7  0.252 -9.000 -9.000 -999.  304.    55.6 0.2930  0.52  1.00  2.60  350.0  15.0 288.2  2.0    0  0.00   93.  1006.     3 NAD-SFC NoSubs
 7  9 14 257  4   -16.5  0.200 -9.000 -9.000 -999.  215.    43.4 0.2930  0.52  1.00  2.10  337.0  15.0 287.8  2.0    0  0.00   94.  1006.     3 NAD-SFC NoSubs
 7  9 14 257  5    -7.8  0.137 -9.000 -9.000 -999.  122.    29.4 0.2720  0.52  1.00  1.50  320.0  15.0 287.4  2.0    0  0.00   96.  1006.     4 NAD-SFC NoSubs
 7  9 14 257  6    -3.5  0.096 -9.000 -9.000 -999.   71.    22.4 0.2160  0.52  1.00  1.00  291.0  15.0 286.9  2.0    0  0.00   98.  1007.     4 NAD-SFC NoSubs
 7  9 14 257  7     3.9  0.167  0.191  0.008   64.  164.  -107.3 0.2930  0.52  0.41  1.50  330.0  15.0 287.2  2.0    0  0.00   95.  1007.     4 NAD-SFC NoSubs
 7  9 14 257  8    49.2  0.206  0.692  0.007  241.  224.   -15.9 0.2940  0.52  0.26  1.50    5.0  15.0 288.4  2.0    0  0.00   86.  1007.     3 NAD-SFC NoSubs
 7  9 14 257  9    91.6 -9.000 -9.000 -9.000  347. -999. -99999.0 0.2235  0.52  0.21  0.00    0.0  15.0 289.2  2.0    0  0.00   82.  1007.     3 NAD-SFC NoSubs
 7  9 14 257 10   124.9 -9.000 -9.000 -9.000  523. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 290.8  2.0    0  0.00   75.  1007.     3 NAD-SFC NoSubs
 7  9 14 257 11   147.5 -9.000 -9.000 -9.000  712. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 292.8  2.0    0  0.00   68.  1006.     3 NAD-SFC NoSubs
 7  9 14 257 12   158.5 -9.000 -9.000 -9.000  874. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 294.4  2.0    0  0.00   61.  1005.     3 NAD-SFC NoSubs
 7  9 14 257 13   157.6 -9.000 -9.000 -9.000  996. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 295.8  2.0    0  0.00   56.  1005.     2 NAD-SFC NoSubs
 7  9 14 257 14   144.7 -9.000 -9.000 -9.000 1070. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 296.8  2.0    0  0.00   52.  1004.     2 NAD-SFC NoSubs
 7  9 14 257 15   120.0  0.115  1.556  0.009 1127.   94.    -1.1 0.2930  0.52  0.20  0.50  341.0  15.0 297.2  2.0    0  0.00   48.  1004.     2 NAD-SFC NoSubs
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 7  9 14 257 16   84.5 -9.000 -9.000 -9.000 1165. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 297.6  2.0   0  0.00  47. 1004.   2 NAD-SFC NoSubs
 7  9 14 257 17   40.2  0.258  1.099  0.009 1183.  314.    -38.0 0.2940  0.52  0.28  2.10  21.0  15.0 297.5  2.0   0  0.00  53. 1003.   2 NAD-SFC NoSubs
 7  9 14 257 18  -11.1  0.310 -9.000 -9.000 -999.  415.    241.3 0.2940  0.52  0.48  3.10  29.0  15.0 296.9  2.0   0  0.00  56. 1004.   2 NAD-SFC NoSubs
 7  9 14 257 19  -31.8  0.303 -9.000 -9.000 -999.  401.     78.7 0.2940  0.52  1.00  3.10  26.0  15.0 295.8  2.0   0  0.00  60. 1004.   2 NAD-SFC NoSubs
 7  9 14 257 20   -7.5  0.133 -9.000 -9.000 -999.  143.     28.2 0.2470  0.52  1.00  1.50  45.0  15.0 294.6  2.0   0  0.00  64. 1004.   3 NAD-SFC NoSubs
 7  9 14 257 21   -1.5  0.080 -9.000 -9.000 -999.   56.     31.1 0.2130  0.52  1.00  0.50  97.0  15.0 293.2  2.0   0  0.00  69. 1004.   3 NAD-SFC NoSubs
 7  9 14 257 22   -1.4  0.078 -9.000 -9.000 -999.   53.     30.7 0.1810  0.52  1.00  0.50 170.0  15.0 292.1  2.0   0  0.00  76. 1004.   3 NAD-SFC NoSubs
 7  9 14 257 23   -1.5  0.080 -9.000 -9.000 -999.   54.     31.2 0.2160  0.52  1.00  0.50 282.0  15.0 291.1  2.0   0  0.00  80. 1004.   3 NAD-SFC NoSubs
 7  9 14 257 24   -3.9  0.101 -9.000 -9.000 -999.   77.     23.3 0.2720  0.52  1.00  1.00 310.0  15.0 290.4  2.0   0  0.00  82. 1004.   2 NAD-SFC NoSubs
 7  9 15 258  1  -16.0  0.195 -9.000 -9.000 -999.  207.     41.6 0.2720  0.52  1.00  2.10 314.0  15.0 289.8  2.0   0  0.00  82. 1004.   2 NAD-SFC NoSubs
 7  9 15 258  2  -25.0  0.246 -9.000 -9.000 -999.  293.     53.3 0.2720  0.52  1.00  2.60 322.0  15.0 289.2  2.0   0  0.00  83. 1004.   2 NAD-SFC NoSubs
 7  9 15 258  3  -26.0  0.251 -9.000 -9.000 -999.  303.     54.8 0.2930  0.52  1.00  2.60 331.0  15.0 288.6  2.0   0  0.00  85. 1005.   2 NAD-SFC NoSubs
 7  9 15 258  4  -31.9  0.296 -9.000 -9.000 -999.  387.     73.1 0.2720  0.52  1.00  3.10 326.0  15.0 288.0  2.0   0  0.00  89. 1005.   2 NAD-SFC NoSubs
 7  9 15 258  5  -32.7  0.303 -9.000 -9.000 -999.  400.     76.3 0.2930  0.52  1.00  3.10 337.0  15.0 287.5  2.0   0  0.00  93. 1006.   2 NAD-SFC NoSubs
 7  9 15 258  6  -26.1  0.251 -9.000 -9.000 -999.  304.     54.7 0.2930  0.52  1.00  2.60 331.0  15.0 287.1  2.0   0  0.00  96. 1006.   2 NAD-SFC NoSubs
 7  9 15 258  7    0.7  0.212  0.068  0.007   15.  235. -1158.7 0.2720  0.52  0.41  2.10 326.0  15.0 287.1  2.0   0  0.00  96. 1007.   2 NAD-SFC NoSubs
 7  9 15 258  8   47.7  0.261  0.607  0.006  168.  320.    -33.3 0.2930  0.52  0.26  2.10 341.0  15.0 289.1  2.0   0  0.00  86. 1007.   2 NAD-SFC NoSubs
 7  9 15 258  9   90.9 -9.000 -9.000 -9.000  311. -999. -99999.0 0.2235  0.52  0.21  0.00   0.0  15.0 291.1  2.0   0  0.00  75. 1007.   2 NAD-SFC NoSubs
 7  9 15 258 10  124.6 -9.000 -9.000 -9.000  500. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 292.9  2.0   0  0.00  66. 1006.   2 NAD-SFC NoSubs
 7  9 15 258 11  147.4 -9.000 -9.000 -9.000  720. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 294.6  2.0   0  0.00  58. 1006.   2 NAD-SFC NoSubs
 7  9 15 258 12  158.4 -9.000 -9.000 -9.000  898. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 296.2  2.0   0  0.00  51. 1004.   2 NAD-SFC NoSubs
 7  9 15 258 13  157.4  0.112  1.640  0.011 1005.   90.    -1.0 0.2160  0.52  0.19  0.50 299.0  15.0 297.4  2.0   0  0.00  46. 1004.   2 NAD-SFC NoSubs
 7  9 15 258 14  144.4  0.177  1.623  0.011 1061.  178.    -3.4 0.2720  0.52  0.19  1.00 322.0  15.0 298.2  2.0   0  0.00  43. 1003.   2 NAD-SFC NoSubs
 7  9 15 258 15  119.5  0.173  1.546  0.011 1105.  172.    -3.8 0.2720  0.52  0.20  1.00 328.0  15.0 298.8  2.0   0  0.00  42. 1002.   2 NAD-SFC NoSubs
 7  9 15 258 16   83.9  0.275  1.386  0.010 1135.  346.   -22.1 0.2930  0.52  0.22  2.10 360.0  15.0 298.9  2.0   0  0.00  41. 1002.   2 NAD-SFC NoSubs
 7  9 15 258 17   39.4  0.257  1.082  0.010 1148.  313.    -38.5 0.2940  0.52  0.28  2.10  22.0  15.0 298.6  2.0   0  0.00  48. 1002.   2 NAD-SFC NoSubs
 7  9 15 258 18  -12.4  0.310 -9.000 -9.000 -999.  414.    214.3 0.2940  0.52  0.49  3.10  22.0  15.0 297.8  2.0   0  0.00  51. 1002.   2 NAD-SFC NoSubs
 7  9 15 258 19  -25.3  0.252 -9.000 -9.000 -999.  305.     56.6 0.2940  0.52  1.00  2.60  21.0  15.0 296.6  2.0   0  0.00  55. 1003.   3 NAD-SFC NoSubs
 7  9 15 258 20   -1.6  0.082 -9.000 -9.000 -999.   92.     31.5 0.2720  0.52  1.00  0.50 309.0  15.0 295.4  2.0   0  0.00  59. 1003.   3 NAD-SFC NoSubs
 7  9 15 258 21  -36.3  0.353 -9.000 -9.000 -999.  504.    108.5 0.1750  0.52  1.00  4.10 258.0  15.0 293.4  2.0   0  0.00  67. 1004.   3 NAD-SFC NoSubs
 7  9 15 258 22  -38.6  0.373 -9.000 -9.000 -999.  546.    120.0 0.2160  0.52  1.00  4.10 270.0  15.0 291.4  2.0   0  0.00  78. 1004.   3 NAD-SFC NoSubs
 7  9 15 258 23  -38.8  0.373 -9.000 -9.000 -999.  546.    119.5 0.2160  0.52  1.00  4.10 295.0  15.0 290.2  2.0   0  0.00  83. 1005.   3 NAD-SFC NoSubs
 7  9 15 258 24  -36.2  0.347 -9.000 -9.000 -999.  491.    103.3 0.2720  0.52  1.00  3.60 310.0  15.0 289.5  2.0   0  0.00  86. 1005.   3 NAD-SFC NoSubs
 7  9 16 259  1  -30.6  0.303 -9.000 -9.000 -999.  402.     81.9 0.2930  0.52  1.00  3.10 332.0  15.0 289.0  2.0   0  0.00  88. 1005.   4 NAD-SFC NoSubs
 7  9 16 259  2  -30.6  0.303 -9.000 -9.000 -999.  401.     81.8 0.2930  0.52  1.00  3.10 338.0  15.0 288.6  2.0   0  0.00  89. 1006.   4 NAD-SFC NoSubs
 7  9 16 259  3  -16.2  0.200 -9.000 -9.000 -999.  220.     44.4 0.2930  0.52  1.00  2.10 338.0  15.0 288.2  2.0   0  0.00  90. 1006.   4 NAD-SFC NoSubs
 7  9 16 259  4   -7.8  0.137 -9.000 -9.000 -999.  123.     29.4 0.2720  0.52  1.00  1.50 326.0  15.0 287.8  2.0   0  0.00  90. 1006.   4 NAD-SFC NoSubs
 7  9 16 259  5   -3.7  0.098 -9.000 -9.000 -999.   74.     23.4 0.2720  0.52  1.00  1.00 322.0  15.0 287.2  2.0   0  0.00  91. 1006.   5 NAD-SFC NoSubs
 7  9 16 259  6   -1.6  0.082 -9.000 -9.000 -999.   56.     31.4 0.2720  0.52  1.00  0.50 324.0  15.0 286.9  2.0   0  0.00  92. 1007.   4 NAD-SFC NoSubs
 7  9 16 259  7    2.8  0.072  0.164  0.007   55.   46.    -11.8 0.2940  0.52  0.42  0.50   8.0  15.0 287.0  2.0   0  0.00  91. 1007.   4 NAD-SFC NoSubs
 7  9 16 259  8   47.8  0.156  0.712  0.007  271.  149.    -7.2 0.2940  0.52  0.26  1.00  20.0  15.0 287.8  2.0   0  0.00  85. 1007.   3 NAD-SFC NoSubs
 7  9 16 259  9   90.2 -9.000 -9.000 -9.000  433. -999. -99999.0 0.2235  0.52  0.21  0.00   0.0  15.0 288.8  2.0   0  0.00  81. 1007.   3 NAD-SFC NoSubs
 7  9 16 259 10  123.4 -9.000 -9.000 -9.000  558. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 290.2  2.0   0  0.00  75. 1006.   3 NAD-SFC NoSubs
 7  9 16 259 11  145.9 -9.000 -9.000 -9.000  681. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 292.2  2.0   0  0.00  68. 1005.   2 NAD-SFC NoSubs
 7  9 16 259 12  156.8 -9.000 -9.000 -9.000  805. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 293.9  2.0   0  0.00  61. 1004.   2 NAD-SFC NoSubs
 7  9 16 259 13  155.7 -9.000 -9.000 -9.000  913. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 295.2  2.0   0  0.00  56. 1003.   2 NAD-SFC NoSubs
 7  9 16 259 14  142.6  0.118  1.591  0.008 1010.   98.    -1.0 0.2930  0.52  0.19  0.50 335.0  15.0 296.1  2.0   0  0.00  52. 1002.   2 NAD-SFC NoSubs
 7  9 16 259 15  117.7  0.226  1.534  0.009 1096.  258.    -8.8 0.2930  0.52  0.20  1.50 341.0  15.0 296.8  2.0   0  0.00  49. 1001.   2 NAD-SFC NoSubs
 7  9 16 259 16   82.0  0.320  1.383  0.010 1151.  435.   -35.7 0.2930  0.52  0.22  2.60 352.0  15.0 297.0  2.0   0  0.00  47. 1000.   2 NAD-SFC NoSubs
 7  9 16 259 17   37.5 -9.000 -9.000 -9.000 1175. -999. -99999.0 0.2235  0.52  0.28  0.00   0.0  15.0 296.8  2.0   0  0.00  55. 1000.   2 NAD-SFC NoSubs
 7  9 16 259 18  -17.7  0.360 -9.000 -9.000 -999.  519.    236.6 0.2940  0.52  0.50  3.60  14.0  15.0 295.9  2.0   0  0.00  59. 1001.   2 NAD-SFC NoSubs
 7  9 16 259 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 294.2  2.0   0  0.00  64. 1002.   3 NAD-SFC NoSubs
 7  9 16 259 20  -31.1  0.303 -9.000 -9.000 -999.  401.     80.1 0.2930  0.52  1.00  3.10 350.0  15.0 293.5  2.0   0  0.00  65. 1002.   3 NAD-SFC NoSubs
 7  9 16 259 21  -15.5  0.196 -9.000 -9.000 -999.  214.     43.4 0.2720  0.52  1.00  2.10 311.0  15.0 292.8  2.0   0  0.00  67. 1002.   4 NAD-SFC NoSubs
 7  9 16 259 22  -13.9  0.183 -9.000 -9.000 -999.  189.     39.6 0.2160  0.52  1.00  2.10 276.0  15.0 291.9  2.0   0  0.00  71. 1003.   4 NAD-SFC NoSubs
 7  9 16 259 23  -13.2  0.184 -9.000 -9.000 -999.  190.     42.3 0.2160  0.52  1.00  2.10 287.0  15.0 290.9  2.0   0  0.00  74. 1003.   6 NAD-SFC NoSubs
 7  9 16 259 24  -24.5  0.298 -9.000 -9.000 -999.  391.     96.8 0.2720  0.52  1.00  3.10 314.0  15.0 289.9  2.0   0  0.00  80. 1003.   7 NAD-SFC NoSubs
 7  9 17 260  1  -24.6  0.298 -9.000 -9.000 -999.  391.     96.5 0.2720  0.52  1.00  3.10 319.0  15.0 289.2  2.0   0  0.00  84. 1003.   7 NAD-SFC NoSubs
 7  9 17 260  2  -22.2  0.247 -9.000 -9.000 -999.  296.     61.0 0.2720  0.52  1.00  2.60 323.0  15.0 288.6  2.0   0  0.00  87. 1004.   6 NAD-SFC NoSubs
 7  9 17 260  3  -15.2  0.196 -9.000 -9.000 -999.  209.     44.3 0.2720  0.52  1.00  2.10 318.0  15.0 288.2  2.0   0  0.00  88. 1004.   5 NAD-SFC NoSubs
 7  9 17 260  4   -8.1  0.140 -9.000 -9.000 -999.  126.     30.3 0.2930  0.52  1.00  1.50 332.0  15.0 287.8  2.0   0  0.00  90. 1004.   4 NAD-SFC NoSubs
 7  9 17 260  5   -3.9  0.101 -9.000 -9.000 -999.   77.     23.7 0.2930  0.52  1.00  1.00 330.0  15.0 287.4  2.0   0  0.00  91. 1004.   4 NAD-SFC NoSubs
 7  9 17 260  6   -3.8  0.100 -9.000 -9.000 -999.   75.     23.3 0.2720  0.52  1.00  1.00 322.0  15.0 287.2  2.0   0  0.00  92. 1005.   4 NAD-SFC NoSubs
 7  9 17 260  7    2.5  0.161  0.141  0.005   41.  155.   -151.6 0.2720  0.52  0.42  1.50 305.0  15.0 287.5  2.0   0  0.00  92. 1005.   4 NAD-SFC NoSubs
 7  9 17 260  8   47.4  0.202  0.739  0.006  305.  217.    -15.5 0.2720  0.52  0.26  1.50 320.0  15.0 287.8  2.0   0  0.00  91. 1005.   4 NAD-SFC NoSubs
 7  9 17 260  9   89.4  0.220  1.060  0.006  477.  247.    -10.6 0.2930  0.52  0.21  1.50 332.0  15.0 288.1  2.0   0  0.00  88. 1005.   3 NAD-SFC NoSubs
 7  9 17 260 10  122.4  0.165  1.290  0.006  629.  161.    -3.3 0.2160  0.52  0.20  1.00 296.0  15.0 288.8  2.0   0  0.00  85. 1005.   3 NAD-SFC NoSubs
 7  9 17 260 11  144.5  0.168  1.457  0.006  767.  165.    -2.9 0.2160  0.52  0.19  1.00 295.0  15.0 289.5  2.0   0  0.00  82. 1004.   3 NAD-SFC NoSubs
 7  9 17 260 12  155.1 -9.000 -9.000 -9.000  894. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 291.1  2.0   0  0.00  75. 1003.   3 NAD-SFC NoSubs
 7  9 17 260 13  154.1 -9.000 -9.000 -9.000 1006. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 293.1  2.0   0  0.00  66. 1002.   2 NAD-SFC NoSubs
 7  9 17 260 14  141.1  0.114  1.631  0.010 1099.   92.    -1.0 0.2470  0.52  0.19  0.50  34.0  15.0 294.6  2.0   0  0.00  60. 1001.   2 NAD-SFC NoSubs
 7  9 17 260 15  116.2  0.168  1.561  0.010 1170.  166.    -3.7 0.2470  0.52  0.20  1.00  30.0  15.0 295.5  2.0   0  0.00  56. 1001.   2 NAD-SFC NoSubs
 7  9 17 260 16   80.9  0.274  1.403  0.011 1220.  345.   -22.7 0.2940  0.52  0.22  2.10  24.0  15.0 297.0  2.0   0  0.00  47. 1000.   2 NAD-SFC NoSubs
 7  9 17 260 17   36.3  0.246  1.080  0.011 1239.  293.   -36.5 0.2470  0.52  0.29  2.10  55.0  15.0 296.8  2.0   0  0.00  54. 1000.   2 NAD-SFC NoSubs
 7  9 17 260 18  -12.5  0.233 -9.000 -9.000 -999.  270.    89.9 0.2090  0.52  0.51  2.60  65.0  15.0 296.1  2.0   0  0.00  56. 1000.   2 NAD-SFC NoSubs
 7  9 17 260 19  -21.6  0.229 -9.000 -9.000 -999.  263.    49.4 0.2090  0.52  1.00  2.60  66.0  15.0 294.9  2.0   0  0.00  59. 1001.   3 NAD-SFC NoSubs
 7  9 17 260 20   -7.0  0.128 -9.000 -9.000 -999.  115.    26.8 0.2130  0.52  1.00  1.50  96.0  15.0 293.8  2.0   0  0.00  63. 1001.   3 NAD-SFC NoSubs
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7	9	17	260	21	-6.8	0.126	-9.000	-9.000	-999.	107.	26.0	0.1970	0.52	1.00	1.50	148.0	15.0	292.4	2.0	0	0.00	69.	1001.	3	NAD-SFC	NoSubs
7	9	17	260	22	-13.6	0.179	-9.000	-9.000	-999.	181.	37.4	0.1970	0.52	1.00	2.10	147.0	15.0	291.5	2.0	0	0.00	72.	1001.	3	NAD-SFC	NoSubs
7	9	17	260	23	-20.5	0.220	-9.000	-9.000	-999.	248.	46.5	0.1810	0.52	1.00	2.60	157.0	15.0	290.8	2.0	0	0.00	76.	1002.	3	NAD-SFC	NoSubs
7	9	17	260	24	-6.6	0.123	-9.000	-9.000	-999.	108.	25.3	0.1810	0.52	1.00	1.50	158.0	15.0	290.0	2.0	0	0.00	79.	1001.	3	NAD-SFC	NoSubs
7	9	18	261	1	-3.4	0.094	-9.000	-9.000	-999.	69.	21.8	0.1810	0.52	1.00	1.00	169.0	15.0	289.4	2.0	0	0.00	82.	1002.	3	NAD-SFC	NoSubs
7	9	18	261	2	-3.4	0.095	-9.000	-9.000	-999.	70.	22.0	0.1950	0.52	1.00	1.00	210.0	15.0	288.9	2.0	0	0.00	85.	1002.	3	NAD-SFC	NoSubs
7	9	18	261	3	-13.0	0.173	-9.000	-9.000	-999.	173.	35.6	0.1750	0.52	1.00	2.10	249.0	15.0	288.2	2.0	0	0.00	90.	1003.	3	NAD-SFC	NoSubs
7	9	18	261	4	-20.4	0.218	-9.000	-9.000	-999.	245.	45.7	0.1750	0.52	1.00	2.60	260.0	15.0	287.5	2.0	0	0.00	94.	1003.	3	NAD-SFC	NoSubs
7	9	18	261	5	-20.4	0.218	-9.000	-9.000	-999.	245.	45.6	0.1750	0.52	1.00	2.60	267.0	15.0	287.1	2.0	0	0.00	97.	1003.	3	NAD-SFC	NoSubs
7	9	18	261	6	-14.3	0.183	-9.000	-9.000	-999.	188.	38.4	0.2160	0.52	1.00	2.10	281.0	15.0	286.9	2.0	0	0.00	98.	1004.	3	NAD-SFC	NoSubs
7	9	18	261	7	0.6	0.145	0.064	0.009	15.	133.	-451.3	0.2160	0.52	0.42	1.50	279.0	15.0	287.1	2.0	0	0.00	97.	1005.	3	NAD-SFC	NoSubs
7	9	18	261	8	46.5	0.140	0.599	0.009	166.	125.	-5.3	0.1750	0.52	0.26	1.00	267.0	15.0	287.8	2.0	0	0.00	94.	1005.	3	NAD-SFC	NoSubs
7	9	18	261	9	88.8	0.166	0.908	0.006	302.	162.	-4.6	0.2720	0.52	0.21	1.00	315.0	15.0	288.5	2.0	0	0.00	92.	1005.	3	NAD-SFC	NoSubs
7	9	18	261	10	121.8	-9.000	-9.000	-9.000	452.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	290.2	2.0	0	0.00	84.	1004.	2	NAD-SFC	NoSubs
7	9	18	261	11	144.7	-9.000	-9.000	-9.000	619.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	293.0	2.0	0	0.00	71.	1004.	2	NAD-SFC	NoSubs
7	9	18	261	12	155.5	-9.000	-9.000	-9.000	913.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.8	2.0	0	0.00	63.	1003.	2	NAD-SFC	NoSubs
7	9	18	261	13	154.3	-9.000	-9.000	-9.000	1014.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.1	2.0	0	0.00	57.	1002.	2	NAD-SFC	NoSubs
7	9	18	261	14	141.0	-9.000	-9.000	-9.000	1060.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.1	2.0	0	0.00	54.	1001.	2	NAD-SFC	NoSubs
7	9	18	261	15	116.0	0.115	1.527	0.011	1096.	93.	-1.2	0.2930	0.52	0.20	0.50	360.0	15.0	297.8	2.0	0	0.00	52.	1000.	2	NAD-SFC	NoSubs
7	9	18	261	16	80.1	0.217	1.360	0.011	1121.	243.	-11.4	0.2940	0.52	0.22	1.50	18.0	15.0	298.0	2.0	0	0.00	51.	1000.	2	NAD-SFC	NoSubs
7	9	18	261	17	36.6	0.256	1.051	0.011	1132.	310.	-40.6	0.2940	0.52	0.29	2.10	28.0	15.0	297.8	2.0	0	0.00	57.	999.	3	NAD-SFC	NoSubs
7	9	18	261	18	-14.9	0.293	-9.000	-9.000	-999.	381.	150.7	0.2470	0.52	0.52	3.10	44.0	15.0	297.1	2.0	0	0.00	61.	1000.	3	NAD-SFC	NoSubs
7	9	18	261	19	-14.7	0.191	-9.000	-9.000	-999.	205.	42.1	0.2470	0.52	1.00	2.10	36.0	15.0	295.9	2.0	0	0.00	65.	1000.	4	NAD-SFC	NoSubs
7	9	18	261	20	-3.2	0.092	-9.000	-9.000	-999.	72.	22.0	0.1950	0.52	1.00	1.00	239.0	15.0	294.8	2.0	0	0.00	70.	1000.	5	NAD-SFC	NoSubs
7	9	18	261	21	-37.6	0.399	-9.000	-9.000	-999.	604.	150.6	0.1750	0.52	1.00	4.60	246.0	15.0	292.6	2.0	0	0.00	77.	1001.	5	NAD-SFC	NoSubs
7	9	18	261	22	-39.7	0.398	-9.000	-9.000	-999.	603.	141.9	0.1750	0.52	1.00	4.60	257.0	15.0	290.6	2.0	0	0.00	81.	1001.	4	NAD-SFC	NoSubs
7	9	18	261	23	-39.8	0.398	-9.000	-9.000	-999.	603.	141.5	0.1750	0.52	1.00	4.60	258.0	15.0	289.8	2.0	0	0.00	84.	1001.	4	NAD-SFC	NoSubs
7	9	18	261	24	-33.7	0.354	-9.000	-9.000	-999.	506.	117.0	0.1750	0.52	1.00	4.10	259.0	15.0	288.9	2.0	0	0.00	86.	1001.	5	NAD-SFC	NoSubs
7	9	19	262	1	-15.4	0.282	-9.000	-9.000	-999.	362.	130.1	0.2160	0.52	1.00	3.10	272.0	15.0	288.4	2.0	0	0.00	87.	1002.	10	NAD-SFC	NoSubs
7	9	19	262	2	-5.2	0.131	-9.000	-9.000	-999.	132.	37.9	0.2160	0.52	1.00	1.50	281.0	15.0	288.2	2.0	0	0.00	87.	1002.	10	NAD-SFC	NoSubs
7	9	19	262	3	-2.3	0.086	-9.000	-9.000	-999.	62.	24.9	0.2160	0.52	1.00	1.00	270.0	15.0	288.2	2.0	0	0.00	87.	1002.	10	NAD-SFC	NoSubs
7	9	19	262	4	-10.3	0.188	-9.000	-9.000	-999.	195.	57.5	0.2160	0.52	1.00	2.10	274.0	15.0	288.1	2.0	0	0.00	86.	1002.	10	NAD-SFC	NoSubs
7	9	19	262	5	-18.1	0.330	-9.000	-9.000	-999.	454.	177.2	0.2160	0.52	1.00	3.60	275.0	15.0	287.8	2.0	0	0.00	85.	1002.	10	NAD-SFC	NoSubs
7	9	19	262	6	-18.1	0.330	-9.000	-9.000	-999.	454.	177.0	0.2160	0.52	1.00	3.60	272.0	15.0	287.4	2.0	0	0.00	84.	1003.	10	NAD-SFC	NoSubs
7	9	19	262	7	-7.6	0.318	-9.000	-9.000	-999.	430.	377.1	0.1750	0.52	0.43	3.60	267.0	15.0	287.2	2.0	0	0.00	84.	1004.	10	NAD-SFC	NoSubs
7	9	19	262	8	31.8	0.409	0.593	0.007	235.	628.	-192.4	0.2160	0.52	0.26	4.10	272.0	15.0	287.5	2.0	0	0.00	82.	1004.	8	NAD-SFC	NoSubs
7	9	19	262	9	80.1	0.287	0.963	0.007	399.	378.	-26.3	0.1750	0.52	0.21	2.60	268.0	15.0	288.2	2.0	0	0.00	77.	1004.	6	NAD-SFC	NoSubs
7	9	19	262	10	109.1	0.210	1.186	0.007	548.	234.	-7.6	0.2160	0.52	0.20	1.50	274.0	15.0	289.2	2.0	0	0.00	72.	1004.	6	NAD-SFC	NoSubs
7	9	19	262	11	141.4	0.164	1.399	0.007	694.	160.	-2.8	0.1950	0.52	0.19	1.00	238.0	15.0	290.0	2.0	0	0.00	69.	1004.	4	NAD-SFC	NoSubs
7	9	19	262	12	151.4	0.166	1.512	0.007	819.	162.	-2.7	0.1950	0.52	0.19	1.00	233.0	15.0	290.5	2.0	0	0.00	67.	1004.	4	NAD-SFC	NoSubs
7	9	19	262	13	151.8	0.162	1.579	0.007	929.	156.	-2.5	0.1750	0.52	0.19	1.00	257.0	15.0	291.2	2.0	0	0.00	64.	1003.	3	NAD-SFC	NoSubs
7	9	19	262	14	132.8	0.175	1.556	0.007	1015.	176.	-3.6	0.2720	0.52	0.19	1.00	307.0	15.0	292.9	2.0	0	0.00	57.	1002.	5	NAD-SFC	NoSubs
7	9	19	262	15	109.4	0.369	1.489	0.007	1079.	537.	-40.9	0.2720	0.52	0.20	3.10	305.0	15.0	293.9	2.0	0	0.00	52.	1002.	5	NAD-SFC	NoSubs
7	9	19	262	16	71.4	0.565	1.306	0.008	1117.	1018.	-225.3	0.2160	0.52	0.22	5.70	284.0	15.0	293.5	2.0	0	0.00	55.	1002.	6	NAD-SFC	NoSubs
7	9	19	262	17	33.7	0.434	1.022	0.008	1132.	701.	-216.8	0.1750	0.52	0.29	4.60	269.0	15.0	292.1	2.0	0	0.00	65.	1002.	5	NAD-SFC	NoSubs
7	9	19	262	18	-17.1	0.406	-9.000	-9.000	-999.	621.	347.9	0.1750	0.52	0.53	4.60	266.0	15.0	290.2	2.0	0	0.00	72.	1003.	7	NAD-SFC	NoSubs
7	9	19	262	19	-23.3	0.426	-9.000	-9.000	-999.	666.	296.4	0.2160	0.52	1.00	4.60	275.0	15.0	288.8	2.0	0	0.00	77.	1003.	10	NAD-SFC	NoSubs
7	9	19	262	20	-19.6	0.358	-9.000	-9.000	-999.	517.	208.7	0.1750	0.52	1.00	4.10	267.0	15.0	288.0	2.0	0	0.00	80.	1004.	10	NAD-SFC	NoSubs
7	9	19	262	21	-15.5	0.282	-9.000	-9.000	-999.	363.	129.7	0.2160	0.52	1.00	3.10	280.0	15.0	287.6	2.0	0	0.00	82.	1004.	10	NAD-SFC	NoSubs
7	9	19	262	22	-12.9	0.235	-9.000	-9.000	-999.	274.	89.9	0.2160	0.52	1.00	2.60	285.0	15.0	287.4	2.0	0	0.00	83.	1004.	10	NAD-SFC	NoSubs
7	9	19	262	23	-10.3	0.188	-9.000	-9.000	-999.	196.	57.3	0.2160	0.52	1.00	2.10	281.0	15.0	287.2	2.0	0	0.00	84.	1004.	10	NAD-SFC	NoSubs
7	9	19	262	24	-10.3	0.188	-9.000	-9.000	-999.	195.	57.2	0.2160	0.52	1.00	2.10	273.0	15.0	286.8	2.0	0	0.00	86.	1004.	10	NAD-SFC	NoSubs
7	9	20	263	1	-10.3	0.188	-9.000	-9.000	-999.	195.	57.1	0.2160	0.52	1.00	2.10	270.0	15.0	286.5	2.0	0	0.00	87.	1004.	10	NAD-SFC	NoSubs
7	9	20	263	2	-18.3	0.220	-9.000	-9.000	-999.	248.	52.1	0.1750	0.52	1.00	2.60	267.0	15.0	286.2	2.0	0	0.00	87.	1004.	7	NAD-SFC	NoSubs
7	9	20	263	3	-12.8	0.185	-9.000	-9.000	-999.	191.	44.0	0.2160	0.52	1.00	2.10	280.0	15.0	286.0	2.0	0	0.00	87.	1004.	7	NAD-SFC	NoSubs
7	9	20	263	4	-6.4	0.129	-9.000	-9.000	-999.	111.	29.9	0.2160	0.52	1.00	1.50	280.0	15.0	285.9	2.0	0	0.00	87.	1004.	7	NAD-SFC	NoSubs
7	9	20	263	5	-3.0	0.090	-9.000	-9.000	-999.	65.	21.5	0.1750	0.52	1.00	1.00	259.0	15.0	285.9	2.0	0	0.00	87.	1004.	6	NAD-SFC	NoSubs
7	9	20	263	6	-3.1	0.091	-9.000	-9.000	-999.	66.	22.0	0.1970	0.52	1.00	1.00	141.0	15.0	285.8	2.0	0	0.00	87.	1005.	6	NAD-SFC	NoSubs
7	9	20	263	7	1.4	0.199	0.157	0.005	100.	212.	-512.3	0.1970	0.52	0.43	2.10	139.0	15.0	285.4	2.0	0	0.00	89.	1005.	5	NAD-SFC	NoSubs
7	9	20	263	8	44.4	0.187	0.750	0.005	340.	194.	-13.2	0.1970	0.52	0.26	1.50	147.0	15.0	286.1	2.0	0	0.00	81.	1005.	5	NAD-SFC	NoSubs
7	9	20	263	9	86.6	0.154	1.096	0.005	545.	146.	-3.8	0.1970	0.52	0.21	1.00	145.0	15.0	287.2	2.0	0	0.00	75.	1005.	4	NAD-SFC	NoSubs
7	9	20	263	10	119.0	-9.000	-9.000	-9.000	746.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	288.8	2.0	0	0.00	65.	1004.	4	NAD-SFC	NoSubs
7	9	20	263	11	127.9	-9.000	-9.000	-9.000	928.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	290.2	2.0	0	0.00	56.	1004.	6	NAD-SFC	NoSubs
7	9	20	263	12	150.8	0.107	1.681	0.005	1128.	84.	-1.0	0.1810	0.52	0.19	0.50	174.0	15.0	291.2	2.0	0	0.00	49.	1003.	4	NAD-SFC	NoSubs
7	9	20	263	13	151.3	0.109	1.768	0.005	1307.	86.	-1.0	0.1900	0.52	0.19	0.50	190.0	15.0	292.5	2.0	0	0.00	42.	1002.	3	NAD-SFC	NoSubs
7	9	20	263	14	137.9	0.164	1.781	0.005	1465.	159.	-2.8	0.1950	0.52	0.19	1.00	229.0	15.0	293.4	2.0	0	0.00	37.	1001.	3	NAD-SFC	NoSubs
7	9	20	263	15	112.9	0.156	1.712	0.005	1586.	148.	-3.0	0.1750	0.52	0.20	1.00	240.0	15.0	294.2	2.0	0	0.00	34.	1000.	3	NAD-SFC	NoSubs
7	9	20	263	16	76.5	0.194	1.528	0.005	1664.	205.	-8.5	0.1750	0.52	0.22	1.50	253.0	15.0	294.6	2.0	0	0.00	33.	999.	2	NAD-SFC	NoSubs
7	9	20	263	17	31.8	0.248	1.147	0.005	1694.	297.	-42.9	0.2720	0.52	0.30	2.10	302.0	15.0	294.4	2.0	0	0.00	37.	999.	2	NAD-SFC	NoSubs
7	9	20	263	18	-25.3	0.357	-9.000	-9.000	-999.	512.	160.5	0.2930	0.52	0.54	3.60	355.0	15.0	293.4	2.0	0	0.00	42.	999.	2	NAD-SFC	NoSubs
7	9	20	263	19	-37.6	0.355	-9.000	-9.000	-999.	507.	105.9	0.2940	0.52	1.00	3.60	24.0	15.0	291.1	2.0	0	0.00	54.	1000.	2	NAD-SFC	NoSubs
7	9	20	263	20	-1.6	0.083	-9.000	-9.000	-999.	195.	31.9	0.2720	0.52	1.00	0.50	311.0	15.0	290.1	2.0	0	0.00	58.	1001.	2	NAD-SFC	NoSubs
7	9	20	263	21	-36.8	0.353	-9.000	-9.000	-999.	503.	106.6	0.1750	0.52	1.00	4.10	247.0	15.0	288.5	2.0	0	0.00	64.	1001.	3	NAD-SFC	NoSubs
7	9	20	263	22	-27.6	0.263	-9.000	-9.000	-999.	328.	59.1	0.1750	0.52	1.00	3.10	267.0	15.0	287.2	2.0	0	0.00	71.	1002.	3	NAD-SFC	NoSubs
7	9	20	263	23	-14.4	0.183	-9.000	-9.000	-999.	190.	37.8	0.2160	0.52	1.00	2.10	297.0	15.0	287.0	2.0	0	0.00	72.	1002.	2	NAD-SFC	NoSubs
7	9	20	263	24	-1.7	0.085	-9.000	-9.000	-999.	64.	32.2	0.2930	0.52	1.00	0.50	330.0	15.0	286.5	2.0	0	0.00	73.	1002.	2	NAD-SFC	NoSubs
7	9	21	264	1	-3.6	0.097	-9.000	-9.000	-999.	72.	22.3	0.2090	0.52	1.00	1.00	76.0	15.0	285.8	2.0	0	0.00	76.	1002.	2	NAD-SFC	NoSubs

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 7  9 21 264  2   -1.5  0.081 -9.000 -9.000 -999.   56.     31.6  0.2090  0.52  1.00  0.50   89.0  15.0 285.1  2.0   0  0.00   78.  1003.    2 NAD-SFC NoSubs
 7  9 21 264  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0 284.6  2.0   0  0.00   80.  1003.    2 NAD-SFC NoSubs
 7  9 21 264  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0 284.2  2.0   0  0.00   81.  1003.    2 NAD-SFC NoSubs
 7  9 21 264  5   -1.5  0.082 -9.000 -9.000 -999.   56.     31.7  0.2160  0.52  1.00  0.50  279.0  15.0 283.8  2.0   0  0.00   83.  1003.    2 NAD-SFC NoSubs
 7  9 21 264  6   -3.9  0.101 -9.000 -9.000 -999.   77.     23.3  0.2720  0.52  1.00  1.00  302.0  15.0 283.5  2.0   0  0.00   84.  1003.    3 NAD-SFC NoSubs
 7  9 21 264  7   -1.1  0.096 -9.000 -9.000 -999.   71.     70.4  0.2720  0.52  0.44  1.00  317.0  15.0 283.5  2.0   0  0.00   84.  1004.    3 NAD-SFC NoSubs
 7  9 21 264  8   44.4 -9.000 -9.000 -9.000  112. -999. -99999.0  0.2235  0.52  0.26  0.00    0.0  15.0 286.8  2.0   0  0.00   69.  1004.    3 NAD-SFC NoSubs
 7  9 21 264  9   86.7  0.101  0.882  0.006  284.   77.     -1.1  0.1900  0.52  0.21  0.50  208.0  15.0 290.5  2.0   0  0.00   51.  1004.    2 NAD-SFC NoSubs
 7  9 21 264 10  120.8  0.205  1.175  0.005  481.  223.     -6.4  0.1810  0.52  0.20  1.50  174.0  15.0 294.0  2.0   0  0.00   36.  1003.    2 NAD-SFC NoSubs
 7  9 21 264 11  143.7  0.387  1.405  0.005  692.  579.    -36.2  0.1810  0.52  0.19  3.60  167.0  15.0 296.8  2.0   0  0.00   25.  1003.    2 NAD-SFC NoSubs
 7  9 21 264 12  154.5  0.573  1.592  0.005  934. 1040.    -108.5  0.1970  0.52  0.19  5.70  148.0  15.0 298.5  2.0   0  0.00   21.  1001.    2 NAD-SFC NoSubs
 7  9 21 264 13  152.9  0.562  1.687  0.005 1122. 1013.    -103.7  0.1810  0.52  0.19  5.70  159.0  15.0 299.4  2.0   0  0.00   22.  1000.    2 NAD-SFC NoSubs
 7  9 21 264 14  139.3  0.510  1.705  0.005 1270.  877.     -84.7  0.1810  0.52  0.19  5.10  167.0  15.0 300.0  2.0   0  0.00   22.   999.    2 NAD-SFC NoSubs
 7  9 21 264 15  113.7  0.504  1.638  0.005 1377.  860.    -100.3  0.1810  0.52  0.20  5.10  173.0  15.0 300.0  2.0   0  0.00   26.   998.    2 NAD-SFC NoSubs
 7  9 21 264 16   77.3  0.246  1.462  0.005 1442.  365.     -17.2  0.1810  0.52  0.22  2.10  168.0  15.0 299.6  2.0   0  0.00   37.   998.    2 NAD-SFC NoSubs
 7  9 21 264 17   32.4  0.182  1.101  0.005 1467.  191.     -16.4  0.1970  0.52  0.30  1.50  148.0  15.0 299.1  2.0   0  0.51   40.   998.    2 NAD-SFC NoSubs
 7  9 21 264 18   -1.0  0.067 -9.000 -9.000 -999.   53.     27.1  0.1750  0.52  0.55  0.50  242.0  15.0 297.5  2.0   0  1.02   44.   999.    2 NAD-SFC NoSubs
 7  9 21 264 19  -62.7  0.611 -9.000 -9.000 -999. 1147.    324.9  0.2720  0.52  1.00  6.20  302.0  15.0 293.2  2.0   0  0.51   57.  1001.    3 NAD-SFC NoSubs
 7  9 21 264 20  -41.1  0.397 -9.000 -9.000 -999.  646.    136.3  0.2720  0.52  1.00  4.10  302.0  15.0 291.2  2.0   0  0.00   63.  1002.    3 NAD-SFC NoSubs
 7  9 21 264 21  -28.8  0.278 -9.000 -9.000 -999.  365.     66.7  0.2160  0.52  1.00  3.10  285.0  15.0 290.8  2.0   0  0.00   67.  1002.    3 NAD-SFC NoSubs
 7  9 21 264 22   -7.9  0.137 -9.000 -9.000 -999.  138.     29.0  0.2720  0.52  1.00  1.50  305.0  15.0 290.0  2.0   0  0.00   70.  1003.    3 NAD-SFC NoSubs
 7  9 21 264 23   -4.0  0.102 -9.000 -9.000 -999.   78.     23.7  0.2940  0.52  1.00  1.00   23.0  15.0 289.4  2.0   0  0.00   72.  1003.    3 NAD-SFC NoSubs
 7  9 21 264 24   -8.2  0.140 -9.000 -9.000 -999.  126.     29.8  0.2940  0.52  1.00  1.50   19.0  15.0 288.8  2.0   0  0.00   74.  1003.    3 NAD-SFC NoSubs
 7  9 22 265  1   -8.2  0.140 -9.000 -9.000 -999.  125.     29.7  0.2930  0.52  1.00  1.50  360.0  15.0 288.0  2.0   0  0.00   78.  1002.    3 NAD-SFC NoSubs
 7  9 22 265  2   -8.2  0.140 -9.000 -9.000 -999.  126.     29.7  0.2940  0.52  1.00  1.50   12.0  15.0 287.2  2.0   0  0.00   82.  1002.    3 NAD-SFC NoSubs
 7  9 22 265  3   -7.1  0.128 -9.000 -9.000 -999.  110.     26.3  0.2090  0.52  1.00  1.50   74.0  15.0 286.6  2.0   0  0.00   85.  1002.    3 NAD-SFC NoSubs
 7  9 22 265  4  -14.2  0.181 -9.000 -9.000 -999.  185.     37.3  0.2090  0.52  1.00  2.10   65.0  15.0 286.2  2.0   0  0.00   87.  1002.    2 NAD-SFC NoSubs
 7  9 22 265  5   -7.7  0.133 -9.000 -9.000 -999.  117.     27.5  0.2470  0.52  1.00  1.50   31.0  15.0 285.9  2.0   0  0.00   87.  1002.    2 NAD-SFC NoSubs
 7  9 22 265  6   -8.1  0.137 -9.000 -9.000 -999.  122.     28.4  0.2720  0.52  1.00  1.50  325.0  15.0 285.2  2.0   0  0.00   87.  1003.    2 NAD-SFC NoSubs
 7  9 22 265  7   -4.3  0.204 -9.000 -9.000 -999.  222.    177.1  0.2720  0.52  0.44  2.10  316.0  15.0 285.1  2.0   0  0.00   85.  1003.    2 NAD-SFC NoSubs
 7  9 22 265  8   43.0  0.100  0.552  0.006  140.   82.     -2.1  0.2930  0.52  0.27  0.50  341.0  15.0 287.9  2.0   0  0.00   68.  1003.    2 NAD-SFC NoSubs
 7  9 22 265  9   86.0  0.111  0.928  0.005  332.   88.     -1.4  0.2930  0.52  0.21  0.50  334.0  15.0 290.2  2.0   0  0.00   58.  1003.    2 NAD-SFC NoSubs
 7  9 22 265 10  119.4  0.113  1.264  0.005  605.   92.     -1.1  0.2720  0.52  0.20  0.50  312.0  15.0 292.0  2.0   0  0.00   48.  1003.    2 NAD-SFC NoSubs
 7  9 22 265 11  141.9  0.116  1.482  0.005  821.   95.     -1.0  0.2720  0.52  0.19  0.50  301.0  15.0 293.6  2.0   0  0.00   39.  1002.    3 NAD-SFC NoSubs
 7  9 22 265 12  152.2 -9.000 -9.000 -9.000  995. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 294.8  2.0   0  0.00   34.  1001.    3 NAD-SFC NoSubs
 7  9 22 265 13  150.5 -9.000 -9.000 -9.000 1129. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 295.5  2.0   0  0.00   32.  1000.    3 NAD-SFC NoSubs
 7  9 22 265 14  136.7  0.259  1.679  0.005 1237.  316.    -11.3  0.1750  0.52  0.19  2.10  262.0  15.0 295.8  2.0   0  0.00   32.  1000.    3 NAD-SFC NoSubs
 7  9 22 265 15  111.3  0.418  1.602  0.005 1318.  648.    -58.4  0.1750  0.52  0.20  4.10  262.0  15.0 295.8  2.0   0  0.00   35.  1000.    3 NAD-SFC NoSubs
 7  9 22 265 16   75.2  0.491  1.433  0.005 1395.  825.   -140.0  0.1750  0.52  0.22  5.10  260.0  15.0 295.5  2.0   0  0.00   39.   999.    3 NAD-SFC NoSubs
 7  9 22 265 17   30.5  0.390  1.068  0.005 1425.  593.   -173.9  0.1750  0.52  0.30  4.10  246.0  15.0 294.2  2.0   0  0.00   53.   999.    3 NAD-SFC NoSubs
 7  9 22 265 18  -29.8  0.401 -9.000 -9.000 -999.  608.    192.5  0.1750  0.52  0.56  4.60  261.0  15.0 292.9  2.0   0  0.00   57.  1000.    3 NAD-SFC NoSubs
 7  9 22 265 19  -45.8  0.443 -9.000 -9.000 -999.  707.    169.5  0.1750  0.52  1.00  5.10  261.0  15.0 291.1  2.0   0  0.00   64.  1001.    3 NAD-SFC NoSubs
 7  9 22 265 20  -41.4  0.398 -9.000 -9.000 -999.  604.    135.9  0.1750  0.52  1.00  4.60  260.0  15.0 289.4  2.0   0  0.00   74.  1002.    3 NAD-SFC NoSubs
 7  9 22 265 21  -27.5  0.263 -9.000 -9.000 -999.  336.     59.3  0.1750  0.52  1.00  3.10  258.0  15.0 288.4  2.0   0  0.00   79.  1002.    3 NAD-SFC NoSubs
 7  9 22 265 22  -20.3  0.218 -9.000 -9.000 -999.  246.     45.7  0.1750  0.52  1.00  2.60  260.0  15.0 287.8  2.0   0  0.00   80.  1003.    3 NAD-SFC NoSubs
 7  9 22 265 23   -3.6  0.096 -9.000 -9.000 -999.   82.     22.4  0.2160  0.52  1.00  1.00  297.0  15.0 287.5  2.0   0  0.00   79.  1003.    3 NAD-SFC NoSubs
 7  9 22 265 24  -23.6  0.239 -9.000 -9.000 -999.  281.     51.8  0.2470  0.52  1.00  2.60   50.0  15.0 287.2  2.0   0  0.00   80.  1003.    3 NAD-SFC NoSubs
 7  9 23 266  1  -35.5  0.337 -9.000 -9.000 -999.  470.     96.9  0.2470  0.52  1.00  3.60   52.0  15.0 286.9  2.0   0  0.00   81.  1004.    3 NAD-SFC NoSubs
 7  9 23 266  2  -35.5  0.337 -9.000 -9.000 -999.  470.     96.7  0.2470  0.52  1.00  3.60   45.0  15.0 286.5  2.0   0  0.00   84.  1004.    3 NAD-SFC NoSubs
 7  9 23 266  3  -25.8  0.252 -9.000 -9.000 -999.  307.     55.4  0.2940  0.52  1.00  2.60   18.0  15.0 286.0  2.0   0  0.00   87.  1004.    3 NAD-SFC NoSubs
 7  9 23 266  4   -8.3  0.140 -9.000 -9.000 -999.  132.     29.6  0.2930  0.52  1.00  1.50  348.0  15.0 285.5  2.0   0  0.00   89.  1004.    3 NAD-SFC NoSubs
 7  9 23 266  5   -8.0  0.137 -9.000 -9.000 -999.  122.     28.8  0.2720  0.52  1.00  1.50  324.0  15.0 284.9  2.0   0  0.00   90.  1004.    3 NAD-SFC NoSubs
 7  9 23 266  6   -3.9  0.101 -9.000 -9.000 -999.   77.     23.3  0.2720  0.52  1.00  1.00  306.0  15.0 284.2  2.0   0  0.00   89.  1005.    3 NAD-SFC NoSubs
 7  9 23 266  7   -0.3  0.042 -9.000 -9.000 -999.   22.     22.1  0.1750  0.52  0.44  0.50  243.0  15.0 284.0  2.0   0  0.00   88.  1005.    3 NAD-SFC NoSubs
 7  9 23 266  8   42.9  0.182  0.664  0.006  244.  187.    -12.6  0.1750  0.52  0.27  1.50  256.0  15.0 286.0  2.0   0  0.00   74.  1005.    3 NAD-SFC NoSubs
 7  9 23 266  9   85.3 -9.000 -9.000 -9.000  373. -999. -99999.0  0.2235  0.52  0.21  0.00    0.0  15.0 287.8  2.0   0  0.00   63.  1005.    3 NAD-SFC NoSubs
 7  9 23 266 10  118.3 -9.000 -9.000 -9.000  563. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0 289.4  2.0   0  0.00   57.  1005.    3 NAD-SFC NoSubs
 7  9 23 266 11  140.3 -9.000 -9.000 -9.000  768. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 291.0  2.0   0  0.00   49.  1005.    3 NAD-SFC NoSubs
 7  9 23 266 12  150.5 -9.000 -9.000 -9.000  970. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 292.2  2.0   0  0.00   45.  1004.    3 NAD-SFC NoSubs
 7  9 23 266 13  148.9 -9.000 -9.000 -9.000 1101. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 293.5  2.0   0  0.00   41.  1003.    3 NAD-SFC NoSubs
 7  9 23 266 14  135.2  0.175  1.657  0.005 1206.  176.     -3.6  0.2720  0.52  0.20  1.00  322.0  15.0 294.2  2.0   0  0.00   39.  1003.    3 NAD-SFC NoSubs
 7  9 23 266 15  109.9  0.282  1.581  0.005 1287.  360.    -18.3  0.2930  0.52  0.20  2.10  336.0  15.0 294.8  2.0   0  0.00   39.  1002.    3 NAD-SFC NoSubs
 7  9 23 266 16   73.8  0.363  1.402  0.005 1337.  526.    -58.2  0.2930  0.52  0.23  3.10  350.0  15.0 294.8  2.0   0  0.00   40.  1002.    3 NAD-SFC NoSubs
 7  9 23 266 17   29.4  0.251  1.038  0.005 1362.  309.    -48.1  0.2940  0.52  0.31  2.10    5.0  15.0 294.5  2.0   0  0.00   50.  1002.    3 NAD-SFC NoSubs
 7  9 23 266 18  -23.6  0.306 -9.000 -9.000 -999.  405.    107.8  0.2940  0.52  0.58  3.10    1.0  15.0 293.9  2.0   0  0.00   52.  1002.    3 NAD-SFC NoSubs
 7  9 23 266 19  -30.1  0.304 -9.000 -9.000 -999.  402.     83.3  0.2940  0.52  1.00  3.10    4.0  15.0 293.0  2.0   0  0.00   57.  1003.    4 NAD-SFC NoSubs
 7  9 23 266 20  -35.3  0.355 -9.000 -9.000 -999.  507.    113.0  0.2930  0.52  1.00  3.60  348.0  15.0 291.6  2.0   0  0.00   65.  1003.    4 NAD-SFC NoSubs
 7  9 23 266 21  -35.6  0.355 -9.000 -9.000 -999.  507.    112.4  0.2930  0.52  1.00  3.60  346.0  15.0 290.1  2.0   0  0.00   74.  1004.    4 NAD-SFC NoSubs
 7  9 23 266 22  -25.2  0.252 -9.000 -9.000 -999.  309.     56.9  0.2930  0.52  1.00  2.60  356.0  15.0 289.2  2.0   0  0.00   78.  1004.    4 NAD-SFC NoSubs
 7  9 23 266 23   -7.9  0.140 -9.000 -9.000 -999.  133.     31.2  0.2940  0.52  1.00  1.50   14.0  15.0 288.8  2.0   0  0.00   80.  1005.    5 NAD-SFC NoSubs
 7  9 23 266 24   -1.5  0.081 -9.000 -9.000 -999.   56.     31.0  0.2930  0.52  1.00  0.50  358.0  15.0 288.1  2.0   0  0.00   83.  1005.    5 NAD-SFC NoSubs
 7  9 24 267  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0 287.4  2.0   0  0.00   86.  1005.    5 NAD-SFC NoSubs
 7  9 24 267  2   -1.5  0.079 -9.000 -9.000 -999.   54.     30.9  0.2160  0.52  1.00  0.50  282.0  15.0 286.8  2.0   0  0.00   90.  1005.    4 NAD-SFC NoSubs
 7  9 24 267  3   -7.1  0.129 -9.000 -9.000 -999.  111.     27.1  0.2160  0.52  1.00  1.50  291.0  15.0 286.2  2.0   0  0.00   93.  1006.    4 NAD-SFC NoSubs
 7  9 24 267  4  -15.7  0.196 -9.000 -9.000 -999.  208.     42.9  0.2720  0.52  1.00  2.10  301.0  15.0 285.9  2.0   0  0.00   95.  1006.    4 NAD-SFC NoSubs
 7  9 24 267  5  -14.1  0.183 -9.000 -9.000 -999.  188.     39.1  0.2160  0.52  1.00  2.10  298.0  15.0 285.5  2.0   0  0.00   97.  1006.    4 NAD-SFC NoSubs
 7  9 24 267  6  -24.9  0.246 -9.000 -9.000 -999.  293.     53.6  0.2720  0.52  1.00  2.60  301.0  15.0 285.2  2.0   0  0.00   98.  1007.    3 NAD-SFC NoSubs
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7	9	24	267	7	-3.8	0.192	-9.000	-9.000	-999.	203.	166.6	0.2160	0.52	0.45	2.10	287.0	15.0	284.8	2.0	0	0.00	98.	1007.	3	NAD-SFC	NoSubs
7	9	24	267	8	42.4	0.200	0.611	0.005	193.	214.	-16.8	0.2720	0.52	0.27	1.50	300.0	15.0	286.8	2.0	0	0.00	79.	1008.	3	NAD-SFC	NoSubs
7	9	24	267	9	84.8	0.103	1.002	0.005	426.	84.	-1.2	0.2160	0.52	0.22	0.50	271.0	15.0	288.6	2.0	0	0.00	66.	1007.	3	NAD-SFC	NoSubs
7	9	24	267	10	117.4	0.108	1.295	0.005	666.	85.	-1.0	0.2160	0.52	0.20	0.50	272.0	15.0	290.2	2.0	0	0.00	59.	1007.	2	NAD-SFC	NoSubs
7	9	24	267	11	139.7	-9.000	-9.000	-9.000	876.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	292.1	2.0	0	0.00	52.	1006.	2	NAD-SFC	NoSubs
7	9	24	267	12	150.1	-9.000	-9.000	-9.000	1014.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	293.8	2.0	0	0.00	46.	1005.	2	NAD-SFC	NoSubs
7	9	24	267	13	148.5	-9.000	-9.000	-9.000	1094.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.2	2.0	0	0.00	41.	1004.	2	NAD-SFC	NoSubs
7	9	24	267	14	134.7	-9.000	-9.000	-9.000	1163.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.2	2.0	0	0.00	38.	1003.	2	NAD-SFC	NoSubs
7	9	24	267	15	109.0	0.173	1.546	0.009	1215.	173.	-4.3	0.2930	0.52	0.20	1.00	354.0	15.0	296.8	2.0	0	0.00	37.	1003.	2	NAD-SFC	NoSubs
7	9	24	267	16	72.6	0.271	1.363	0.009	1249.	339.	-24.6	0.2940	0.52	0.23	2.10	6.0	15.0	296.9	2.0	0	0.00	38.	1002.	2	NAD-SFC	NoSubs
7	9	24	267	17	27.5	0.342	0.990	0.009	1260.	480.	-129.8	0.2940	0.52	0.31	3.10	18.0	15.0	296.1	2.0	0	0.00	49.	1002.	2	NAD-SFC	NoSubs
7	9	24	267	18	-34.6	0.408	-9.000	-9.000	-999.	625.	175.7	0.2940	0.52	0.59	4.10	21.0	15.0	294.6	2.0	0	0.00	55.	1003.	2	NAD-SFC	NoSubs
7	9	24	267	19	-37.4	0.355	-9.000	-9.000	-999.	509.	106.8	0.2940	0.52	1.00	3.60	16.0	15.0	293.5	2.0	0	0.00	57.	1003.	2	NAD-SFC	NoSubs
7	9	24	267	20	-25.8	0.252	-9.000	-9.000	-999.	309.	55.3	0.2940	0.52	1.00	2.60	16.0	15.0	292.8	2.0	0	0.00	58.	1004.	2	NAD-SFC	NoSubs
7	9	24	267	21	-8.3	0.140	-9.000	-9.000	-999.	132.	29.5	0.2930	0.52	1.00	1.50	358.0	15.0	291.8	2.0	0	0.00	62.	1004.	2	NAD-SFC	NoSubs
7	9	24	267	22	-3.9	0.101	-9.000	-9.000	-999.	77.	23.3	0.2720	0.52	1.00	1.00	321.0	15.0	290.8	2.0	0	0.00	67.	1005.	2	NAD-SFC	NoSubs
7	9	24	267	23	-8.0	0.137	-9.000	-9.000	-999.	122.	28.6	0.2720	0.52	1.00	1.50	306.0	15.0	289.6	2.0	0	0.00	71.	1005.	2	NAD-SFC	NoSubs
7	9	24	267	24	-16.1	0.195	-9.000	-9.000	-999.	207.	41.5	0.2720	0.52	1.00	2.10	316.0	15.0	288.8	2.0	0	0.00	73.	1006.	2	NAD-SFC	NoSubs
7	9	25	268	1	-16.1	0.195	-9.000	-9.000	-999.	207.	41.5	0.2720	0.52	1.00	2.10	317.0	15.0	288.2	2.0	0	0.00	73.	1006.	2	NAD-SFC	NoSubs
7	9	25	268	2	-16.1	0.195	-9.000	-9.000	-999.	207.	41.4	0.2720	0.52	1.00	2.10	320.0	15.0	287.8	2.0	0	0.00	73.	1006.	2	NAD-SFC	NoSubs
7	9	25	268	3	-25.1	0.246	-9.000	-9.000	-999.	293.	53.0	0.2720	0.52	1.00	2.60	307.0	15.0	286.9	2.0	0	0.00	73.	1006.	2	NAD-SFC	NoSubs
7	9	25	268	4	-25.2	0.246	-9.000	-9.000	-999.	293.	52.9	0.2720	0.52	1.00	2.60	314.0	15.0	286.1	2.0	0	0.00	74.	1006.	2	NAD-SFC	NoSubs
7	9	25	268	5	-25.2	0.246	-9.000	-9.000	-999.	292.	52.9	0.2720	0.52	1.00	2.60	302.0	15.0	285.6	2.0	0	0.00	72.	1006.	2	NAD-SFC	NoSubs
7	9	25	268	6	-14.5	0.183	-9.000	-9.000	-999.	189.	37.7	0.2160	0.52	1.00	2.10	287.0	15.0	285.2	2.0	0	0.00	70.	1007.	2	NAD-SFC	NoSubs
7	9	25	268	7	-1.7	0.086	-9.000	-9.000	-999.	66.	33.3	0.2160	0.52	0.45	1.00	276.0	15.0	285.1	2.0	0	0.00	69.	1008.	2	NAD-SFC	NoSubs
7	9	25	268	8	40.7	0.199	0.508	0.008	116.	213.	-17.3	0.2720	0.52	0.27	1.50	319.0	15.0	286.9	2.0	0	0.00	57.	1008.	2	NAD-SFC	NoSubs
7	9	25	268	9	83.5	-9.000	-9.000	-9.000	195.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	288.9	2.0	0	0.00	52.	1008.	2	NAD-SFC	NoSubs
7	9	25	268	10	117.0	-9.000	-9.000	-9.000	332.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	291.5	2.0	0	0.00	45.	1008.	2	NAD-SFC	NoSubs
7	9	25	268	11	139.4	-9.000	-9.000	-9.000	513.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	293.8	2.0	0	0.00	40.	1007.	2	NAD-SFC	NoSubs
7	9	25	268	12	149.9	-9.000	-9.000	-9.000	716.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.5	2.0	0	0.00	36.	1006.	2	NAD-SFC	NoSubs
7	9	25	268	13	148.3	-9.000	-9.000	-9.000	924.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.1	2.0	0	0.00	31.	1005.	2	NAD-SFC	NoSubs
7	9	25	268	14	134.5	0.117	1.577	0.005	1046.	96.	-1.1	0.2940	0.52	0.20	0.50	15.0	15.0	298.2	2.0	0	0.00	29.	1005.	2	NAD-SFC	NoSubs
7	9	25	268	15	108.7	0.173	1.506	0.005	1126.	173.	-4.3	0.2940	0.52	0.20	1.00	11.0	15.0	298.8	2.0	0	0.00	29.	1004.	2	NAD-SFC	NoSubs
7	9	25	268	16	72.1	0.271	1.332	0.005	1175.	338.	-24.6	0.2940	0.52	0.23	2.10	12.0	15.0	298.8	2.0	0	0.00	30.	1004.	2	NAD-SFC	NoSubs
7	9	25	268	17	27.1	0.295	0.965	0.005	1191.	385.	-85.1	0.2940	0.52	0.31	2.60	21.0	15.0	298.0	2.0	0	0.00	40.	1004.	2	NAD-SFC	NoSubs
7	9	25	268	18	-30.7	0.356	-9.000	-9.000	-999.	510.	131.6	0.2940	0.52	0.60	3.60	18.0	15.0	296.8	2.0	0	0.00	44.	1004.	2	NAD-SFC	NoSubs
7	9	25	268	19	-31.8	0.303	-9.000	-9.000	-999.	403.	78.6	0.2940	0.52	1.00	3.10	18.0	15.0	295.4	2.0	0	0.00	49.	1004.	2	NAD-SFC	NoSubs
7	9	25	268	20	-3.8	0.099	-9.000	-9.000	-999.	131.	22.9	0.2470	0.52	1.00	1.00	30.0	15.0	294.0	2.0	0	0.00	54.	1004.	2	NAD-SFC	NoSubs
7	9	25	268	21	-1.5	0.080	-9.000	-9.000	-999.	55.	31.2	0.1950	0.52	1.00	0.50	217.0	15.0	292.4	2.0	0	0.00	60.	1005.	2	NAD-SFC	NoSubs
7	9	25	268	22	-6.6	0.122	-9.000	-9.000	-999.	103.	24.8	0.1750	0.52	1.00	1.50	251.0	15.0	291.1	2.0	0	0.00	64.	1005.	2	NAD-SFC	NoSubs
7	9	25	268	23	-3.6	0.097	-9.000	-9.000	-999.	72.	22.4	0.2160	0.52	1.00	1.00	288.0	15.0	290.1	2.0	0	0.00	65.	1005.	2	NAD-SFC	NoSubs
7	9	25	268	24	-1.7	0.084	-9.000	-9.000	-999.	59.	32.1	0.2930	0.52	1.00	0.50	348.0	15.0	289.1	2.0	0	0.00	67.	1005.	2	NAD-SFC	NoSubs
7	9	26	269	1	-3.6	0.097	-9.000	-9.000	-999.	72.	22.4	0.2130	0.52	1.00	1.00	107.0	15.0	288.4	2.0	0	0.00	66.	1005.	2	NAD-SFC	NoSubs
7	9	26	269	2	-3.5	0.096	-9.000	-9.000	-999.	71.	22.1	0.1970	0.52	1.00	1.00	122.0	15.0	288.0	2.0	0	0.00	66.	1005.	2	NAD-SFC	NoSubs
7	9	26	269	3	-1.5	0.081	-9.000	-9.000	-999.	55.	31.4	0.1970	0.52	1.00	0.50	125.0	15.0	287.6	2.0	0	0.00	67.	1005.	2	NAD-SFC	NoSubs
7	9	26	269	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	287.1	2.0	0	0.00	69.	1005.	2	NAD-SFC	NoSubs
7	9	26	269	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	286.5	2.0	0	0.00	71.	1006.	2	NAD-SFC	NoSubs
7	9	26	269	6	-4.0	0.101	-9.000	-9.000	-999.	77.	23.3	0.2720	0.52	1.00	1.00	324.0	15.0	285.9	2.0	0	0.00	73.	1006.	2	NAD-SFC	NoSubs
7	9	26	269	7	-4.6	0.142	-9.000	-9.000	-999.	129.	55.7	0.2720	0.52	0.46	1.50	313.0	15.0	285.8	2.0	0	0.00	74.	1007.	2	NAD-SFC	NoSubs
7	9	26	269	8	40.4	0.199	0.448	0.007	80.	212.	-17.4	0.2720	0.52	0.27	1.50	314.0	15.0	288.4	2.0	0	0.00	64.	1007.	2	NAD-SFC	NoSubs
7	9	26	269	9	83.2	0.165	0.826	0.007	243.	160.	-4.8	0.2720	0.52	0.22	1.00	313.0	15.0	290.6	2.0	0	0.00	60.	1007.	2	NAD-SFC	NoSubs
7	9	26	269	10	116.8	-9.000	-9.000	-9.000	447.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	293.2	2.0	0	0.00	51.	1007.	2	NAD-SFC	NoSubs
7	9	26	269	11	139.3	-9.000	-9.000	-9.000	609.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.8	2.0	0	0.00	39.	1006.	2	NAD-SFC	NoSubs
7	9	26	269	12	149.7	-9.000	-9.000	-9.000	744.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.4	2.0	0	0.00	33.	1005.	2	NAD-SFC	NoSubs
7	9	26	269	13	147.9	-9.000	-9.000	-9.000	856.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.8	2.0	0	0.00	29.	1005.	2	NAD-SFC	NoSubs
7	9	26	269	14	134.1	-9.000	-9.000	-9.000	948.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	299.9	2.0	0	0.00	28.	1004.	2	NAD-SFC	NoSubs
7	9	26	269	15	108.4	0.114	1.465	0.005	1040.	92.	-1.2	0.2940	0.52	0.20	0.50	15.0	15.0	300.4	2.0	0	0.00	27.	1004.	2	NAD-SFC	NoSubs
7	9	26	269	16	71.7	0.214	1.303	0.005	1105.	238.	-12.3	0.2940	0.52	0.23	1.50	24.0	15.0	300.4	2.0	0	0.00	29.	1003.	2	NAD-SFC	NoSubs
7	9	26	269	17	26.5	0.284	0.942	0.005	1126.	362.	-76.9	0.2470	0.52	0.32	2.60	30.0	15.0	299.6	2.0	0	0.00	39.	1003.	2	NAD-SFC	NoSubs
7	9	26	269	18	-34.3	0.388	-9.000	-9.000	-999.	579.	152.2	0.2470	0.52	0.61	4.10	37.0	15.0	297.8	2.0	0	0.00	47.	1003.	2	NAD-SFC	NoSubs
7	9	26	269	19	-40.4	0.386	-9.000	-9.000	-999.	576.	127.7	0.2470	0.52	1.00	4.10	43.0	15.0	296.0	2.0	0	0.00	53.	1004.	2	NAD-SFC	NoSubs
7	9	26	269	20	-15.2	0.190	-9.000	-9.000	-999.	234.	40.5	0.2470	0.52	1.00	2.10	47.0	15.0	295.1	2.0	0	0.00	54.	1004.	2	NAD-SFC	NoSubs
7	9	26	269	21	-3.4	0.093	-9.000	-9.000	-999.	78.	21.7	0.1750	0.52	1.00	1.00	249.0	15.0	293.8	2.0	0	0.00	58.	1004.	2	NAD-SFC	NoSubs
7	9	26	269	22	-29.5	0.278	-9.000	-9.000	-999.	352.	65.3	0.2160	0.52	1.00	3.10	272.0	15.0	292.2	2.0	0	0.00	61.	1004.	2	NAD-SFC	NoSubs
7	9	26	269	23	-29.6	0.278	-9.000	-9.000	-999.	352.	65.0	0.2160	0.52	1.00	3.10	284.0	15.0	291.2	2.0	0	0.00	61.	1004.	2	NAD-SFC	NoSubs
7	9	26	269	24	-7.2	0.129	-9.000	-9.000	-999.	128.	26.5	0.2160	0.52	1.00	1.50	298.0	15.0	290.5	2.0	0	0.00	61.	1004.	2	NAD-SFC	NoSubs
7	9	27	270	1	-1.6	0.082	-9.000	-9.000	-999.	58.	31.8	0.2470	0.52	1.00	0.50	55.0	15.0	289.8	2.0	0	0.00	62.	1004.	2	NAD-SFC	NoSubs
7	9	27	270	2	-1.5	0.081	-9.000	-9.000	-999.	55.	31.5	0.2130	0.52	1.00	0.50	92.0	15.0	288.9	2.0	0	0.00	65.	1004.	2	NAD-SFC	NoSubs
7	9	27	270	3	-1.5	0.081	-9.000	-9.000	-999.	55.	31.5	0.2090	0.52	1.00	0.50	87.0	15.0	288.2	2.0	0	0.00	67.	1004.	2	NAD-SFC	NoSubs
7	9	27	270	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	287.8	2.0	0	0.00	68.	1004.	2	NAD-SFC	NoSubs
7	9	27	270	5	-1.5	0.081	-9.000	-9.000	-999.	56.	31.5	0.2130	0.52	1.00	0.50	90.0	15.0	287.2	2.0	0	0.00	69.	1004.	2	NAD-SFC	NoSubs
7	9	27	270	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	286.9	2.0	0	0.00	69.	1004.	2	NAD-SFC	NoSubs
7	9	27	270	7	-0.6	0.054	-9.000	-9.000	-999.	30.	23.8	0.2720	0.52	0.46	0.50	312.0	15.0	286.8	2.0	0	0.00	69.	1005.	2	NAD-SFC	NoSubs
7	9	27	270	8	39.9	0.151	0.450	0.009	82.	140.	-7.7	0.2720	0.52	0.27	1.00	315.0	15.0	289.1	2.0	0	0.00	58.	1005.	2	NAD-SFC	NoSubs
7	9	27	270	9	82.8	0.156	0.801	0.007	223.	149.	-4.1	0.2160	0.52	0.22	1.00	297.0	15.0	291.5	2.0	0	0.00	52.	1005.	2	NAD-SFC	NoSubs
7	9	27	270	10	116.3	-9.000	-9.000	-9.000	418.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	293.9	2.0	0	0.00	47.	1004.	2	NAD-SFC	NoSubs
7	9	27	270	11	138.7	-9.000	-9.000	-9.000	593.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.4	2.0	0	0.00	36.	1004.	2	NAD-SFC	NoSubs

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 7  9 27 270 12  149.0 -9.000 -9.000 -9.000  733. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 297.9  2.0    0  0.00   31.  1002.     2 NAD-SFC NoSubs
 7  9 27 270 13  147.2 -9.000 -9.000 -9.000  846. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 299.2  2.0    0  0.00   29.  1001.     2 NAD-SFC NoSubs
 7  9 27 270 14  133.2 -9.000 -9.000 -9.000  938. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 300.2  2.0    0  0.00   28.  1000.     2 NAD-SFC NoSubs
 7  9 27 270 15  107.4  0.114  1.451  0.005 1015.   92.     -1.2 0.2930  0.52  0.20  0.50  338.0  15.0 300.8  2.0    0  0.00   28.   999.     2 NAD-SFC NoSubs
 7  9 27 270 16   70.9  0.165  1.286  0.005 1069.  160.     -5.6 0.2930  0.52  0.23  1.00  353.0  15.0 301.4  2.0    0  0.00   27.   998.     2 NAD-SFC NoSubs
 7  9 27 270 17   25.9  0.193  0.925  0.005 1086.  204.    -24.7 0.2930  0.52  0.32  1.50  352.0  15.0 300.9  2.0    0  0.00   33.   998.     2 NAD-SFC NoSubs
 7  9 27 270 18   -7.3  0.137 -9.000 -9.000 -999.  122.     31.3 0.2720  0.52  0.62  1.50  321.0  15.0 299.8  2.0    0  0.00   38.   998.     2 NAD-SFC NoSubs
 7  9 27 270 19  -38.5  0.373 -9.000 -9.000 -999.  546.    119.6 0.2160  0.52  1.00  4.10  274.0  15.0 297.9  2.0    0  0.00   44.   999.     2 NAD-SFC NoSubs
 7  9 27 270 20  -39.0  0.373 -9.000 -9.000 -999.  546.    118.2 0.2160  0.52  1.00  4.10  283.0  15.0 294.6  2.0    0  0.00   59.   999.     2 NAD-SFC NoSubs
 7  9 27 270 21  -34.2  0.325 -9.000 -9.000 -999.  447.     89.7 0.2160  0.52  1.00  3.60  288.0  15.0 293.2  2.0    0  0.00   64.   999.     2 NAD-SFC NoSubs
 7  9 27 270 22  -29.3  0.278 -9.000 -9.000 -999.  353.     65.4 0.2160  0.52  1.00  3.10  291.0  15.0 292.6  2.0    0  0.00   66.  1000.     2 NAD-SFC NoSubs
 7  9 27 270 23  -28.6  0.278 -9.000 -9.000 -999.  352.     67.0 0.2160  0.52  1.00  3.10  291.0  15.0 292.0  2.0    0  0.00   68.  1000.     3 NAD-SFC NoSubs
 7  9 27 270 24  -14.1  0.183 -9.000 -9.000 -999.  192.     38.7 0.2160  0.52  1.00  2.10  298.0  15.0 291.5  2.0    0  0.00   70.  1000.     3 NAD-SFC NoSubs
 7  9 28 271  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00    0.0  15.0 291.1  2.0    0  0.00   72.  1000.     3 NAD-SFC NoSubs
 7  9 28 271  2  -16.4  0.200 -9.000 -9.000 -999.  215.     43.6 0.2930  0.52  1.00  2.10  338.0  15.0 290.5  2.0    0  0.00   74.  1001.     3 NAD-SFC NoSubs
 7  9 28 271  3  -28.9  0.278 -9.000 -9.000 -999.  352.     66.4 0.2160  0.52  1.00  3.10  292.0  15.0 289.5  2.0    0  0.00   79.  1001.     3 NAD-SFC NoSubs
 7  9 28 271  4  -29.1  0.278 -9.000 -9.000 -999.  352.     66.0 0.2160  0.52  1.00  3.10  271.0  15.0 287.9  2.0    0  0.00   87.  1001.     3 NAD-SFC NoSubs
 7  9 28 271  5  -27.6  0.263 -9.000 -9.000 -999.  324.     59.0 0.1750  0.52  1.00  3.10  263.0  15.0 287.0  2.0    0  0.00   90.  1001.     3 NAD-SFC NoSubs
 7  9 28 271  6  -13.0  0.173 -9.000 -9.000 -999.  176.     35.5 0.1750  0.52  1.00  2.10  257.0  15.0 286.6  2.0    0  0.00   91.  1001.     3 NAD-SFC NoSubs
 7  9 28 271  7   -5.5  0.180 -9.000 -9.000 -999.  184.     94.9 0.1750  0.52  0.46  2.10  265.0  15.0 286.5  2.0    0  0.00   89.  1002.     3 NAD-SFC NoSubs
 7  9 28 271  8   40.0  0.326  0.579  0.006  173.  447.    -77.6 0.2160  0.52  0.27  3.10  272.0  15.0 288.0  2.0    0  0.00   77.  1002.     3 NAD-SFC NoSubs
 7  9 28 271  9   82.2  0.156  0.880  0.008  296.  172.     -4.2 0.2160  0.52  0.22  1.00  276.0  15.0 289.8  2.0    0  0.00   67.  1002.     3 NAD-SFC NoSubs
 7  9 28 271 10  115.0 -9.000 -9.000 -9.000  428. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 291.2  2.0    0  0.00   61.  1002.     3 NAD-SFC NoSubs
 7  9 28 271 11  136.8  0.105  1.303  0.006  578.   82.     -1.0 0.1750  0.52  0.19  0.50  258.0  15.0 292.8  2.0    0  0.00   54.  1001.     3 NAD-SFC NoSubs
 7  9 28 271 12  146.7  0.111  1.438  0.005  724.   89.     -1.0 0.2160  0.52  0.19  0.50  276.0  15.0 293.9  2.0    0  0.00   48.  1000.     3 NAD-SFC NoSubs
 7  9 28 271 13  144.7  0.111  1.520  0.005  868.   89.     -1.0 0.2160  0.52  0.19  0.50  297.0  15.0 295.0  2.0    0  0.00   44.  1000.     3 NAD-SFC NoSubs
 7  9 28 271 14  130.6  0.175  1.531  0.005  981.  175.     -3.6 0.2720  0.52  0.20  1.00  314.0  15.0 295.8  2.0    0  0.00   40.   999.     3 NAD-SFC NoSubs
 7  9 28 271 15  104.8  0.263  1.466  0.005 1071.  324.    -15.5 0.2160  0.52  0.20  2.10  299.0  15.0 296.2  2.0    0  0.00   39.   998.     3 NAD-SFC NoSubs
 7  9 28 271 16   68.3  0.424  1.292  0.005 1124.  663.    -99.3 0.2160  0.52  0.23  4.10  286.0  15.0 296.1  2.0    0  0.00   41.   998.     3 NAD-SFC NoSubs
 7  9 28 271 17   23.6  0.405  0.910  0.005 1140.  618.   -250.2 0.2160  0.52  0.32  4.10  278.0  15.0 295.0  2.0    0  0.00   55.   998.     3 NAD-SFC NoSubs
 7  9 28 271 18  -41.2  0.444 -9.000 -9.000 -999.  710.    189.1 0.1750  0.52  0.64  5.10  269.0  15.0 292.2  2.0    0  0.00   66.   999.     3 NAD-SFC NoSubs
 7  9 28 271 19  -51.5  0.497 -9.000 -9.000 -999.  841.    213.0 0.1750  0.52  1.00  5.70  266.0  15.0 290.2  2.0    0  0.00   72.   999.     3 NAD-SFC NoSubs
 7  9 28 271 20  -46.1  0.443 -9.000 -9.000 -999.  711.    168.2 0.1750  0.52  1.00  5.10  269.0  15.0 288.9  2.0    0  0.00   77.  1000.     3 NAD-SFC NoSubs
 7  9 28 271 21  -52.8  0.525 -9.000 -9.000 -999.  913.    245.0 0.2160  0.52  1.00  5.70  271.0  15.0 288.2  2.0    0  0.00   80.  1000.     4 NAD-SFC NoSubs
 7  9 28 271 22  -52.8  0.525 -9.000 -9.000 -999.  914.    245.0 0.2160  0.52  1.00  5.70  278.0  15.0 288.2  2.0    0  0.00   82.  1001.     4 NAD-SFC NoSubs
 7  9 28 271 23  -47.2  0.527 -9.000 -9.000 -999.  917.    276.5 0.2160  0.52  1.00  5.70  286.0  15.0 288.5  2.0    0  0.00   82.  1001.     6 NAD-SFC NoSubs
 7  9 28 271 24  -40.2  0.421 -9.000 -9.000 -999.  664.    165.1 0.2160  0.52  1.00  4.60  293.0  15.0 288.2  2.0    0  0.00   84.  1001.     5 NAD-SFC NoSubs
 7  9 29 272  1  -37.6  0.373 -9.000 -9.000 -999.  548.    123.3 0.2160  0.52  1.00  4.10  293.0  15.0 288.0  2.0    0  0.00   85.  1002.     4 NAD-SFC NoSubs
 7  9 29 272  2  -32.9  0.326 -9.000 -9.000 -999.  447.     93.7 0.2160  0.52  1.00  3.60  288.0  15.0 287.2  2.0    0  0.00   87.  1002.     4 NAD-SFC NoSubs
 7  9 29 272  3  -31.4  0.326 -9.000 -9.000 -999.  447.     98.5 0.2160  0.52  1.00  3.60  287.0  15.0 286.4  2.0    0  0.00   90.  1002.     5 NAD-SFC NoSubs
 7  9 29 272  4  -23.3  0.280 -9.000 -9.000 -999.  356.     83.8 0.2160  0.52  1.00  3.10  279.0  15.0 285.8  2.0    0  0.00   92.  1002.     7 NAD-SFC NoSubs
 7  9 29 272  5  -13.0  0.235 -9.000 -9.000 -999.  274.     89.2 0.2160  0.52  1.00  2.60  277.0  15.0 285.4  2.0    0  0.00   93.  1003.    10 NAD-SFC NoSubs
 7  9 29 272  6  -10.4  0.188 -9.000 -9.000 -999.  196.     56.9 0.2160  0.52  1.00  2.10  276.0  15.0 285.5  2.0    0  0.00   93.  1003.    10 NAD-SFC NoSubs
 7  9 29 272  7   -3.0  0.193 -9.000 -9.000 -999.  204.    215.5 0.2160  0.52  0.47  2.10  289.0  15.0 286.1  2.0    0  0.00   93.  1004.     8 NAD-SFC NoSubs
 7  9 29 272  8   36.9  0.296  0.594  0.005  203.  386.    -62.9 0.2720  0.52  0.28  2.60  306.0  15.0 287.0  2.0    0  0.00   93.  1004.     6 NAD-SFC NoSubs
 7  9 29 272  9   80.6  0.366  0.991  0.005  433.  531.    -54.4 0.2930  0.52  0.22  3.10  330.0  15.0 288.2  2.0    0  0.00   84.  1005.     4 NAD-SFC NoSubs
 7  9 29 272 10  113.9  0.329  1.271  0.005  646.  455.    -28.1 0.2930  0.52  0.20  2.60  354.0  15.0 289.9  2.0    0  0.00   70.  1005.     3 NAD-SFC NoSubs
 7  9 29 272 11  135.5 -9.000 -9.000 -9.000  799. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 291.1  2.0    0  0.00   63.  1005.     3 NAD-SFC NoSubs
 7  9 29 272 12  145.1 -9.000 -9.000 -9.000  934. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 292.0  2.0    0  0.00   59.  1004.     2 NAD-SFC NoSubs
 7  9 29 272 13  142.9 -9.000 -9.000 -9.000 1069. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 293.0  2.0    0  0.00   55.  1003.     2 NAD-SFC NoSubs
 7  9 29 272 14  128.6  0.108  1.621  0.005 1185.   85.     -1.0 0.2090  0.52  0.20  0.50   89.0  15.0 293.8  2.0    0  0.00   51.  1002.     2 NAD-SFC NoSubs
 7  9 29 272 15  102.5  0.113  1.538  0.005 1270.   91.     -1.3 0.2940  0.52  0.21  0.50   26.0  15.0 294.1  2.0    0  0.00   48.  1002.     2 NAD-SFC NoSubs
 7  9 29 272 16   65.6  0.163  1.343  0.006 1321.  158.     -5.9 0.2940  0.52  0.23  1.00    6.0  15.0 294.2  2.0    0  0.00   46.  1001.     2 NAD-SFC NoSubs
 7  9 29 272 17   20.8  0.091  0.920  0.006 1337.   68.     -3.3 0.2930  0.52  0.33  0.50  358.0  15.0 294.1  2.0    0  0.00   49.  1001.     2 NAD-SFC NoSubs
 7  9 29 272 18   -3.8  0.100 -9.000 -9.000 -999.   76.     23.7 0.2930  0.52  0.65  1.00  332.0  15.0 293.4  2.0    0  0.00   51.  1002.     2 NAD-SFC NoSubs
 7  9 29 272 19   -1.6  0.083 -9.000 -9.000 -999.   58.     31.8 0.2720  0.52  1.00  0.50  316.0  15.0 292.2  2.0    0  0.00   56.  1002.     2 NAD-SFC NoSubs
 7  9 29 272 20   -1.4  0.079 -9.000 -9.000 -999.   54.     31.0 0.1810  0.52  1.00  0.50  169.0  15.0 290.9  2.0    0  0.00   63.  1002.     2 NAD-SFC NoSubs
 7  9 29 272 21   -3.4  0.094 -9.000 -9.000 -999.   69.     21.8 0.1810  0.52  1.00  1.00  165.0  15.0 289.6  2.0    0  0.00   69.  1003.     2 NAD-SFC NoSubs
 7  9 29 272 22   -1.5  0.080 -9.000 -9.000 -999.   54.     31.1 0.1810  0.52  1.00  0.50  172.0  15.0 288.6  2.0    0  0.00   74.  1003.     2 NAD-SFC NoSubs
 7  9 29 272 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00    0.0  15.0 287.9  2.0    0  0.00   76.  1004.     2 NAD-SFC NoSubs
 7  9 29 272 24   -1.7  0.085 -9.000 -9.000 -999.   59.     32.2 0.2930  0.52  1.00  0.50  342.0  15.0 287.2  2.0    0  0.00   76.  1004.     2 NAD-SFC NoSubs
 7  9 30 273  1   -4.1  0.103 -9.000 -9.000 -999.   79.     23.6 0.2930  0.52  1.00  1.00  332.0  15.0 286.9  2.0    0  0.00   74.  1004.     2 NAD-SFC NoSubs
 7  9 30 273  2  -16.1  0.195 -9.000 -9.000 -999.  207.     41.3 0.2720  0.52  1.00  2.10  325.0  15.0 286.2  2.0    0  0.00   72.  1004.     2 NAD-SFC NoSubs
 7  9 30 273  3  -25.1  0.246 -9.000 -9.000 -999.  292.     52.9 0.2720  0.52  1.00  2.60  323.0  15.0 285.6  2.0    0  0.00   69.  1004.     2 NAD-SFC NoSubs
 7  9 30 273  4  -25.2  0.246 -9.000 -9.000 -999.  292.     52.8 0.2720  0.52  1.00  2.60  325.0  15.0 284.8  2.0    0  0.00   68.  1004.     2 NAD-SFC NoSubs
 7  9 30 273  5  -22.7  0.230 -9.000 -9.000 -999.  265.     48.3 0.2160  0.52  1.00  2.60  299.0  15.0 284.2  2.0    0  0.00   67.  1004.     2 NAD-SFC NoSubs
 7  9 30 273  6  -25.2  0.246 -9.000 -9.000 -999.  292.     52.7 0.2720  0.52  1.00  2.60  303.0  15.0 283.8  2.0    0  0.00   64.  1005.     2 NAD-SFC NoSubs
 7  9 30 273  7   -9.5  0.201 -9.000 -9.000 -999.  217.     76.9 0.2720  0.52  0.47  2.10  306.0  15.0 283.6  2.0    0  0.00   61.  1005.     2 NAD-SFC NoSubs
 7  9 30 273  8   36.9  0.296  0.483  0.009  109.  386.    -63.0 0.2720  0.52  0.28  2.60  326.0  15.0 285.5  2.0    0  0.00   50.  1006.     2 NAD-SFC NoSubs
 7  9 30 273  9   79.3  0.269  0.755  0.009  194.  335.    -22.0 0.2720  0.52  0.22  2.10  325.0  15.0 287.1  2.0    0  0.00   47.  1006.     2 NAD-SFC NoSubs
 7  9 30 273 10  112.6  0.278  1.013  0.009  332.  353.    -17.2 0.2720  0.52  0.20  2.10  316.0  15.0 289.6  2.0    0  0.00   42.  1006.     2 NAD-SFC NoSubs
 7  9 30 273 11  134.8  0.226  1.217  0.009  479.  259.     -7.7 0.2720  0.52  0.20  1.50  321.0  15.0 292.2  2.0    0  0.00   38.  1005.     2 NAD-SFC NoSubs
 7  9 30 273 12  144.9  0.177  1.358  0.009  620.  179.     -3.4 0.2720  0.52  0.19  1.00  316.0  15.0 294.2  2.0    0  0.00   32.  1005.     2 NAD-SFC NoSubs
 7  9 30 273 13  142.9  0.179  1.423  0.008  723.  183.     -3.6 0.2930  0.52  0.19  1.00  353.0  15.0 295.8  2.0    0  0.00   31.  1004.     2 NAD-SFC NoSubs
 7  9 30 273 14  128.7  0.229  1.422  0.008  801.  262.     -8.3 0.2930  0.52  0.20  1.50  346.0  15.0 297.0  2.0    0  0.00   30.  1004.     2 NAD-SFC NoSubs
 7  9 30 273 15  102.7  0.280  1.350  0.008  859.  356.    -19.2 0.2930  0.52  0.21  2.10  352.0  15.0 297.8  2.0    0  0.00   30.  1004.     2 NAD-SFC NoSubs
 7  9 30 273 16   65.6  0.360  1.179  0.008  893.  519.    -63.8 0.2930  0.52  0.24  3.10  360.0  15.0 297.6  2.0    0  0.00   33.  1003.     2 NAD-SFC NoSubs
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 7  9 30 273 17   20.4 -9.000 -9.000 -9.000   902. -999. -99999.0  0.2235  0.52  0.33  0.00   0.0  15.0 296.4  2.0   0  0.00   44.  1003.   2 NAD-SFC NoSubs
 7  9 30 273 18  -35.2  0.355 -9.000 -9.000  -999.  508.    113.9  0.2940  0.52  0.67  3.60  14.0  15.0 294.9  2.0   0  0.00   49.  1004.   2 NAD-SFC NoSubs
 7  9 30 273 19  -25.8  0.252 -9.000 -9.000  -999.  309.     55.5  0.2940  0.52  1.00  2.60  18.0  15.0 293.8  2.0   0  0.00   52.  1004.   2 NAD-SFC NoSubs
 7  9 30 273 20   -3.6  0.097 -9.000 -9.000  -999.   97.     22.4  0.2160  0.52  1.00  1.00 297.0  15.0 292.4  2.0   0  0.00   56.  1005.   2 NAD-SFC NoSubs
 7  9 30 273 21  -29.5  0.278 -9.000 -9.000  -999.  352.     65.1  0.2160  0.52  1.00  3.10 283.0  15.0 291.6  2.0   0  0.00   57.  1005.   2 NAD-SFC NoSubs
 7  9 30 273 22  -42.4  0.397 -9.000 -9.000  -999.  600.    132.3  0.2720  0.52  1.00  4.10 300.0  15.0 290.5  2.0   0  0.00   57.  1006.   2 NAD-SFC NoSubs
 7  9 30 273 23  -34.9  0.325 -9.000 -9.000  -999.  448.     88.4  0.2160  0.52  1.00  3.60 299.0  15.0 289.2  2.0   0  0.00   61.  1006.   2 NAD-SFC NoSubs
 7  9 30 273 24  -31.9  0.296 -9.000 -9.000  -999.  388.     73.2  0.2720  0.52  1.00  3.10 313.0  15.0 288.5  2.0   0  0.00   64.  1006.   2 NAD-SFC NoSubs
 7 10  1 274  1  -31.9  0.296 -9.000 -9.000  -999.  387.     73.1  0.2720  0.72  1.00  3.10 321.0  15.0 288.0  2.0   0  0.00   65.  1006.   2 NAD-SFC NoSubs
 7 10  1 274  2  -16.7  0.200 -9.000 -9.000  -999.  218.     42.7  0.2930  0.72  1.00  2.10 345.0  15.0 287.4  2.0   0  0.00   68.  1006.   2 NAD-SFC NoSubs
 7 10  1 274  3   -8.1  0.137 -9.000 -9.000  -999.  123.     28.5  0.2720  0.72  1.00  1.50 326.0  15.0 286.8  2.0   0  0.00   72.  1006.   2 NAD-SFC NoSubs
 7 10  1 274  4   -1.7  0.084 -9.000 -9.000  -999.   59.     32.1  0.2720  0.72  1.00  0.50 328.0  15.0 286.1  2.0   0  0.00   76.  1007.   2 NAD-SFC NoSubs
 7 10  1 274  5 -999.0 -9.000 -9.000 -9.000  -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 285.5  2.0   0  0.00   79.  1007.   2 NAD-SFC NoSubs
 7 10  1 274  6   -1.6  0.083 -9.000 -9.000  -999.   57.     31.9  0.2470  0.72  1.00  0.50  36.0  15.0 285.0  2.0   0  0.00   83.  1007.   2 NAD-SFC NoSubs
 7 10  1 274  7   21.4 -9.000 -9.000 -9.000  -999. -999. -99999.0  0.2235  0.72  0.48  0.00   0.0  15.0 284.6  2.0   0  0.00   86.  1008.   2 NAD-SFC NoSubs
 7 10  1 274  8   44.4  0.155  0.604  0.011   178.  147.     -7.5  0.2930  0.72  0.28  1.00 352.0  15.0 286.2  2.0   0  0.00   80.  1008.   2 NAD-SFC NoSubs
 7 10  1 274  9   96.5  0.112  0.936  0.009   305.   90.     -1.3  0.2930  0.72  0.22  0.50 344.0  15.0 288.5  2.0   0  0.00   70.  1008.   2 NAD-SFC NoSubs
 7 10  1 274 10  137.1  0.178  1.189  0.008   441.  181.     -3.7  0.2930  0.72  0.20  1.00 333.0  15.0 290.5  2.0   0  0.00   61.  1008.   2 NAD-SFC NoSubs
 7 10  1 274 11  163.8  0.179  1.380  0.007   578.  182.     -3.2  0.2720  0.72  0.20  1.00 325.0  15.0 292.1  2.0   0  0.00   56.  1008.   2 NAD-SFC NoSubs
 7 10  1 274 12  175.9  0.237  1.517  0.006   713.  278.     -6.8  0.2930  0.72  0.19  1.50 330.0  15.0 293.5  2.0   0  0.00   52.  1007.   2 NAD-SFC NoSubs
 7 10  1 274 13  173.1  0.237  1.603  0.006   854.  277.     -6.9  0.2930  0.72  0.19  1.50 338.0  15.0 294.6  2.0   0  0.00   48.  1006.   2 NAD-SFC NoSubs
 7 10  1 274 14  155.4  0.292  1.609  0.006   964.  379.    -14.4  0.2930  0.72  0.20  2.10 338.0  15.0 295.4  2.0   0  0.00   46.  1006.   2 NAD-SFC NoSubs
 7 10  1 274 15  123.3  0.332  1.539  0.007  1062.  458.    -26.5  0.2930  0.72  0.21  2.60 342.0  15.0 295.8  2.0   0  0.00   45.  1005.   2 NAD-SFC NoSubs
 7 10  1 274 16   77.9  0.365  1.346  0.007  1121.  529.    -55.8  0.2930  0.72  0.24  3.10 337.0  15.0 295.8  2.0   0  0.00   46.  1004.   2 NAD-SFC NoSubs
 7 10  1 274 17   23.0  0.292  0.900  0.008  1136.  382.    -97.0  0.2930  0.72  0.34  2.60 347.0  15.0 295.2  2.0   0  0.00   54.  1004.   2 NAD-SFC NoSubs
 7 10  1 274 18  -35.8  0.355 -9.000 -9.000  -999.  507.    111.6  0.2930  0.72  0.68  3.60 355.0  15.0 294.4  2.0   0  0.00   57.  1005.   2 NAD-SFC NoSubs
 7 10  1 274 19  -37.5  0.354 -9.000 -9.000  -999.  506.    106.3  0.2930  0.72  1.00  3.60 336.0  15.0 292.9  2.0   0  0.00   64.  1005.   2 NAD-SFC NoSubs
 7 10  1 274 20  -37.7  0.354 -9.000 -9.000  -999.  506.    105.8  0.2930  0.72  1.00  3.60 342.0  15.0 291.5  2.0   0  0.00   72.  1006.   2 NAD-SFC NoSubs
 7 10  1 274 21  -37.9  0.354 -9.000 -9.000  -999.  506.    105.4  0.2930  0.72  1.00  3.60 353.0  15.0 290.4  2.0   0  0.00   79.  1006.   2 NAD-SFC NoSubs
 7 10  1 274 22  -26.0  0.251 -9.000 -9.000  -999.  308.     54.9  0.2930  0.72  1.00  2.60 358.0  15.0 289.6  2.0   0  0.00   84.  1007.   2 NAD-SFC NoSubs
 7 10  1 274 23   -8.3  0.140 -9.000 -9.000  -999.  132.     29.4  0.2930  0.72  1.00  1.50 343.0  15.0 288.9  2.0   0  0.00   88.  1007.   2 NAD-SFC NoSubs
 7 10  1 274 24   -7.3  0.129 -9.000 -9.000  -999.  111.     26.4  0.2160  0.72  1.00  1.50 295.0  15.0 288.2  2.0   0  0.00   91.  1006.   2 NAD-SFC NoSubs
 7 10  2 275  1   -7.3  0.129 -9.000 -9.000  -999.  111.     26.3  0.2160  0.72  1.00  1.50 287.0  15.0 287.6  2.0   0  0.00   93.  1006.   2 NAD-SFC NoSubs
 7 10  2 275  2   -7.3  0.129 -9.000 -9.000  -999.  111.     26.3  0.2160  0.72  1.00  1.50 287.0  15.0 287.0  2.0   0  0.00   95.  1006.   2 NAD-SFC NoSubs
 7 10  2 275  3   -7.3  0.129 -9.000 -9.000  -999.  111.     26.3  0.2160  0.72  1.00  1.50 296.0  15.0 286.5  2.0   0  0.00   97.  1006.   2 NAD-SFC NoSubs
 7 10  2 275  4   -8.1  0.137 -9.000 -9.000  -999.  122.     28.4  0.2720  0.72  1.00  1.50 325.0  15.0 285.8  2.0   0  0.00   99.  1006.   2 NAD-SFC NoSubs
 7 10  2 275  5   -4.1  0.103 -9.000 -9.000  -999.   79.     23.6  0.2930  0.72  1.00  1.00 352.0  15.0 284.9  2.0   0  0.00  100.  1006.   2 NAD-SFC NoSubs
 7 10  2 275  6 -999.0 -9.000 -9.000 -9.000  -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 284.4  2.0   0  0.00  100.  1007.   2 NAD-SFC NoSubs
 7 10  2 275  7   -0.9  0.063 -9.000 -9.000  -999.   38.     26.0  0.2930  0.72  0.48  0.50 337.0  15.0 284.2  2.0   0  0.00  100.  1007.   2 NAD-SFC NoSubs
 7 10  2 275  8   43.3  0.099  0.538  0.008   129.   75.     -2.0  0.2720  0.72  0.28  0.50 319.0  15.0 285.2  2.0   0  0.00   95.  1007.   2 NAD-SFC NoSubs
 7 10  2 275  9   95.0 -9.000 -9.000 -9.000   318. -999. -99999.0  0.2235  0.72  0.22  0.00   0.0  15.0 286.6  2.0   0  0.00   86.  1007.   2 NAD-SFC NoSubs
 7 10  2 275 10  135.8 -9.000 -9.000 -9.000   526. -999. -99999.0  0.2235  0.72  0.20  0.00   0.0  15.0 289.8  2.0   0  0.00   71.  1007.   2 NAD-SFC NoSubs
 7 10  2 275 11  162.9 -9.000 -9.000 -9.000   686. -999. -99999.0  0.2235  0.72  0.20  0.00   0.0  15.0 292.8  2.0   0  0.00   56.  1006.   2 NAD-SFC NoSubs
 7 10  2 275 12  175.2 -9.000 -9.000 -9.000   772. -999. -99999.0  0.2235  0.72  0.19  0.00   0.0  15.0 294.6  2.0   0  0.00   49.  1005.   2 NAD-SFC NoSubs
 7 10  2 275 13  172.6 -9.000 -9.000 -9.000   850. -999. -99999.0  0.2235  0.72  0.19  0.00   0.0  15.0 296.2  2.0   0  0.00   43.  1004.   2 NAD-SFC NoSubs
 7 10  2 275 14  155.1 -9.000 -9.000 -9.000   915. -999. -99999.0  0.2235  0.72  0.20  0.00   0.0  15.0 297.5  2.0   0  0.00   39.  1003.   2 NAD-SFC NoSubs
 7 10  2 275 15  123.0  0.176  1.491  0.010   963.  178.     -4.0  0.2940  0.72  0.21  1.00  15.0  15.0 298.2  2.0   0  0.00   37.  1002.   2 NAD-SFC NoSubs
 7 10  2 275 16   78.0 -9.000 -9.000 -9.000   996. -999. -99999.0  0.2235  0.72  0.24  0.00   0.0  15.0 299.0  2.0   0  0.00   37.  1001.   2 NAD-SFC NoSubs
 7 10  2 275 17   23.0  0.292  0.865  0.010  1004.  379.    -97.1  0.2940  0.72  0.34  2.60   6.0  15.0 298.2  2.0   0  0.00   47.  1001.   2 NAD-SFC NoSubs
 7 10  2 275 18  -30.6  0.304 -9.000 -9.000  -999.  402.     81.7  0.2940  0.72  0.69  3.10  12.0  15.0 297.1  2.0   0  0.00   51.  1001.   2 NAD-SFC NoSubs
 7 10  2 275 19  -16.4  0.200 -9.000 -9.000  -999.  220.     43.5  0.2940  0.72  1.00  2.10  25.0  15.0 295.8  2.0   0  0.00   56.  1001.   2 NAD-SFC NoSubs
 7 10  2 275 20 -999.0 -9.000 -9.000 -9.000  -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 294.2  2.0   0  0.00   61.  1001.   2 NAD-SFC NoSubs
 7 10  2 275 21   -1.5  0.080 -9.000 -9.000  -999.   54.     31.1  0.1950  0.72  1.00  0.50 226.0  15.0 292.8  2.0   0  0.00   67.  1002.   2 NAD-SFC NoSubs
 7 10  2 275 22   -3.6  0.097 -9.000 -9.000  -999.   72.     22.4  0.2160  0.72  1.00  1.00 284.0  15.0 291.6  2.0   0  0.00   71.  1002.   2 NAD-SFC NoSubs
 7 10  2 275 23   -3.9  0.101 -9.000 -9.000  -999.   77.     23.3  0.2720  0.72  1.00  1.00 322.0  15.0 290.8  2.0   0  0.00   73.  1002.   2 NAD-SFC NoSubs
 7 10  2 275 24   -8.3  0.140 -9.000 -9.000  -999.  125.     29.4  0.2930  0.72  1.00  1.50 338.0  15.0 289.9  2.0   0  0.00   75.  1002.   2 NAD-SFC NoSubs
 7 10  3 276  1   -8.3  0.140 -9.000 -9.000  -999.  125.     29.4  0.2930  0.72  1.00  1.50 336.0  15.0 289.2  2.0   0  0.00   77.  1002.   2 NAD-SFC NoSubs
 7 10  3 276  2   -8.0  0.137 -9.000 -9.000  -999.  122.     28.6  0.2720  0.72  1.00  1.50 329.0  15.0 288.9  2.0   0  0.00   78.  1002.   2 NAD-SFC NoSubs
 7 10  3 276  3   -8.0  0.137 -9.000 -9.000  -999.  122.     28.6  0.2720  0.72  1.00  1.50 322.0  15.0 288.2  2.0   0  0.00   79.  1002.   2 NAD-SFC NoSubs
 7 10  3 276  4   -8.0  0.137 -9.000 -9.000  -999.  122.     28.5  0.2720  0.72  1.00  1.50 312.0  15.0 287.8  2.0   0  0.00   81.  1002.   2 NAD-SFC NoSubs
 7 10  3 276  5   -3.6  0.097 -9.000 -9.000  -999.   73.     22.4  0.2160  0.72  1.00  1.00 299.0  15.0 287.1  2.0   0  0.00   82.  1002.   2 NAD-SFC NoSubs
 7 10  3 276  6   -4.0  0.101 -9.000 -9.000  -999.   77.     23.3  0.2720  0.72  1.00  1.00 306.0  15.0 286.6  2.0   0  0.00   83.  1002.   2 NAD-SFC NoSubs
 7 10  3 276  7   -2.5  0.091 -9.000 -9.000  -999.   66.     27.2  0.2720  0.72  0.49  1.00 309.0  15.0 286.2  2.0   0  0.00   85.  1002.   2 NAD-SFC NoSubs
 7 10  3 276  8   43.1  0.152  0.533  0.013   126.  142.     -7.3  0.2720  0.72  0.28  1.00 328.0  15.0 287.8  2.0   0  0.00   77.  1002.   2 NAD-SFC NoSubs
 7 10  3 276  9   95.0 -9.000 -9.000 -9.000   222. -999. -99999.0  0.2235  0.72  0.22  0.00   0.0  15.0 289.8  2.0   0  0.00   69.  1002.   2 NAD-SFC NoSubs
 7 10  3 276 10  135.7 -9.000 -9.000 -9.000   358. -999. -99999.0  0.2235  0.72  0.20  0.00   0.0  15.0 292.2  2.0   0  0.00   59.  1002.   2 NAD-SFC NoSubs
 7 10  3 276 11  162.6 -9.000 -9.000 -9.000   534. -999. -99999.0  0.2235  0.72  0.20  0.00   0.0  15.0 294.5  2.0   0  0.00   50.  1001.   2 NAD-SFC NoSubs
 7 10  3 276 12  174.7 -9.000 -9.000 -9.000   686. -999. -99999.0  0.2235  0.72  0.19  0.00   0.0  15.0 296.0  2.0   0  0.00   47.  1000.   2 NAD-SFC NoSubs
 7 10  3 276 13  171.9 -9.000 -9.000 -9.000   793. -999. -99999.0  0.2235  0.72  0.19  0.00   0.0  15.0 297.4  2.0   0  0.00   44.   999.   2 NAD-SFC NoSubs
 7 10  3 276 14  154.3  0.118  1.561  0.009   878.   97.     -1.0  0.2720  0.72  0.20  0.50 316.0  15.0 298.5  2.0   0  0.00   41.   998.   2 NAD-SFC NoSubs
 7 10  3 276 15  122.1  0.176  1.477  0.008   940.  177.     -4.0  0.2930  0.72  0.21  1.00 354.0  15.0 299.1  2.0   0  0.00   39.   998.   2 NAD-SFC NoSubs
 7 10  3 276 16   76.6 -9.000 -9.000 -9.000   978. -999. -99999.0  0.2235  0.72  0.24  0.00   0.0  15.0 299.2  2.0   0  0.00   39.   997.   2 NAD-SFC NoSubs
 7 10  3 276 17   21.7  0.291  0.845  0.008   987.  378.   -101.4  0.2940  0.72  0.35  2.60  13.0  15.0 298.5  2.0   0  0.00   48.   997.   2 NAD-SFC NoSubs
 7 10  3 276 18  -36.1  0.355 -9.000 -9.000  -999.  507.    110.2  0.2940  0.72  0.71  3.60   7.0  15.0 296.9  2.0   0  0.00   55.   997.   2 NAD-SFC NoSubs
 7 10  3 276 19  -41.3  0.406 -9.000 -9.000  -999.  621.    144.1  0.2930  0.72  1.00  4.10 345.0  15.0 294.6  2.0   0  0.00   66.   998.   3 NAD-SFC NoSubs
 7 10  3 276 20  -41.6  0.406 -9.000 -9.000  -999.  621.    143.0  0.2930  0.72  1.00  4.10 332.0  15.0 292.6  2.0   0  0.00   75.   998.   3 NAD-SFC NoSubs
 7 10  3 276 21  -35.7  0.347 -9.000 -9.000  -999.  493.    104.1  0.2720  0.72  1.00  3.60 329.0  15.0 291.8  2.0   0  0.00   79.   999.   3 NAD-SFC NoSubs
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7	10	3	276	22	-25.4	0.252	-9.000	-9.000	-999.	308.	55.9	0.2930	0.72	1.00	2.60	332.0	15.0	291.2	2.0	0	0.00	82.	999.	3	NAD-SFC	NoSubs
7	10	3	276	23	-25.4	0.252	-9.000	-9.000	-999.	303.	55.9	0.2930	0.72	1.00	2.60	334.0	15.0	290.8	2.0	0	0.00	83.	999.	3	NAD-SFC	NoSubs
7	10	3	276	24	-24.5	0.246	-9.000	-9.000	-999.	293.	54.2	0.2720	0.72	1.00	2.60	327.0	15.0	290.5	2.0	0	0.00	84.	999.	3	NAD-SFC	NoSubs
7	10	4	277	1	-16.3	0.200	-9.000	-9.000	-999.	215.	43.6	0.2930	0.72	1.00	2.10	338.0	15.0	290.2	2.0	0	0.00	85.	999.	3	NAD-SFC	NoSubs
7	10	4	277	2	-16.3	0.200	-9.000	-9.000	-999.	215.	43.6	0.2930	0.72	1.00	2.10	353.0	15.0	289.8	2.0	0	0.00	86.	999.	3	NAD-SFC	NoSubs
7	10	4	277	3	-16.3	0.200	-9.000	-9.000	-999.	215.	43.5	0.2930	0.72	1.00	2.10	350.0	15.0	289.4	2.0	0	0.00	86.	999.	3	NAD-SFC	NoSubs
7	10	4	277	4	-8.0	0.140	-9.000	-9.000	-999.	126.	30.3	0.2930	0.72	1.00	1.50	346.0	15.0	288.8	2.0	0	0.00	86.	999.	4	NAD-SFC	NoSubs
7	10	4	277	5	-8.0	0.140	-9.000	-9.000	-999.	125.	30.3	0.2930	0.72	1.00	1.50	338.0	15.0	288.2	2.0	0	0.00	87.	999.	4	NAD-SFC	NoSubs
7	10	4	277	6	-7.8	0.137	-9.000	-9.000	-999.	121.	29.4	0.2720	0.72	1.00	1.50	327.0	15.0	287.9	2.0	0	0.00	87.	1000.	4	NAD-SFC	NoSubs
7	10	4	277	7	-5.3	0.144	-9.000	-9.000	-999.	132.	50.6	0.2930	0.72	0.49	1.50	334.0	15.0	287.8	2.0	0	0.00	87.	1000.	4	NAD-SFC	NoSubs
7	10	4	277	8	43.5	0.200	0.705	0.006	287.	215.	-16.5	0.2720	0.72	0.28	1.50	329.0	15.0	287.5	2.0	0	0.00	87.	1001.	3	NAD-SFC	NoSubs
7	10	4	277	9	94.2	0.278	1.060	0.006	451.	352.	-20.4	0.2930	0.72	0.22	2.10	344.0	15.0	287.5	2.0	0	0.00	84.	1001.	3	NAD-SFC	NoSubs
7	10	4	277	10	133.6	0.288	1.329	0.006	628.	370.	-15.9	0.2930	0.72	0.20	2.10	338.0	15.0	287.5	2.0	0	0.00	81.	1001.	3	NAD-SFC	NoSubs
7	10	4	277	11	159.4	0.293	1.527	0.008	798.	381.	-14.1	0.2930	0.72	0.20	2.10	338.0	15.0	288.0	2.0	0	0.00	77.	1001.	3	NAD-SFC	NoSubs
7	10	4	277	12	170.9	0.295	1.656	0.009	950.	385.	-13.4	0.2930	0.72	0.19	2.10	336.0	15.0	288.8	2.0	0	0.00	74.	1000.	3	NAD-SFC	NoSubs
7	10	4	277	13	167.5	0.295	1.696	0.010	1040.	384.	-13.6	0.2930	0.72	0.19	2.10	354.0	15.0	289.8	2.0	0	0.00	69.	1000.	2	NAD-SFC	NoSubs
7	10	4	277	14	149.6	0.291	1.668	0.011	1109.	377.	-14.7	0.2930	0.72	0.20	2.10	349.0	15.0	290.6	2.0	0	0.00	66.	1000.	2	NAD-SFC	NoSubs
7	10	4	277	15	117.8	0.377	1.565	0.011	1161.	556.	-40.5	0.2930	0.72	0.21	3.10	355.0	15.0	291.0	2.0	0	0.00	64.	999.	3	NAD-SFC	NoSubs
7	10	4	277	16	72.8	0.363	1.345	0.011	1191.	526.	-58.7	0.2940	0.72	0.24	3.10	2.0	15.0	291.4	2.0	0	0.00	62.	999.	3	NAD-SFC	NoSubs
7	10	4	277	17	19.9	0.244	0.875	0.011	1200.	298.	-64.9	0.2940	0.72	0.35	2.10	12.0	15.0	291.4	2.0	0	0.00	66.	999.	6	NAD-SFC	NoSubs
7	10	4	277	18	-11.0	0.205	-9.000	-9.000	-999.	223.	69.7	0.2940	0.72	0.72	2.10	22.0	15.0	290.9	2.0	0	0.00	68.	1000.	10	NAD-SFC	NoSubs
7	10	4	277	19	-16.4	0.301	-9.000	-9.000	-999.	396.	148.4	0.2720	0.72	1.00	3.10	328.0	15.0	289.5	2.0	0	0.25	79.	1001.	10	NAD-SFC	NoSubs
7	10	4	277	20	-11.2	0.205	-9.000	-9.000	-999.	226.	68.5	0.2930	0.72	1.00	2.10	331.0	15.0	288.8	2.0	0	0.25	82.	1001.	10	NAD-SFC	NoSubs
7	10	4	277	21	-5.8	0.139	-9.000	-9.000	-999.	126.	41.5	0.2720	0.72	1.00	1.50	319.0	15.0	288.2	2.0	0	0.00	81.	1002.	10	NAD-SFC	NoSubs
7	10	4	277	22	-13.7	0.250	-9.000	-9.000	-999.	301.	102.2	0.2720	0.72	1.00	2.60	312.0	15.0	287.8	2.0	0	0.00	79.	1002.	10	NAD-SFC	NoSubs
7	10	4	277	23	-15.5	0.282	-9.000	-9.000	-999.	360.	129.6	0.2160	0.72	1.00	3.10	297.0	15.0	287.2	2.0	0	0.00	79.	1003.	10	NAD-SFC	NoSubs
7	10	4	277	24	-15.5	0.282	-9.000	-9.000	-999.	360.	129.4	0.2160	0.72	1.00	3.10	287.0	15.0	286.9	2.0	0	0.00	79.	1003.	10	NAD-SFC	NoSubs
7	10	5	278	1	-15.5	0.282	-9.000	-9.000	-999.	360.	129.3	0.2160	0.72	1.00	3.10	278.0	15.0	286.6	2.0	0	0.00	79.	1003.	10	NAD-SFC	NoSubs
7	10	5	278	2	-18.2	0.330	-9.000	-9.000	-999.	454.	176.0	0.2160	0.72	1.00	3.60	285.0	15.0	285.9	2.0	0	0.00	79.	1003.	10	NAD-SFC	NoSubs
7	10	5	278	3	-18.2	0.330	-9.000	-9.000	-999.	454.	175.7	0.2160	0.72	1.00	3.60	284.0	15.0	285.4	2.0	0	0.00	77.	1003.	10	NAD-SFC	NoSubs
7	10	5	278	4	-13.0	0.235	-9.000	-9.000	-999.	278.	89.1	0.2160	0.72	1.00	2.60	278.0	15.0	285.2	2.0	0	0.00	76.	1003.	10	NAD-SFC	NoSubs
7	10	5	278	5	-13.0	0.235	-9.000	-9.000	-999.	273.	89.1	0.2160	0.72	1.00	2.60	271.0	15.0	285.2	2.0	0	0.00	76.	1003.	10	NAD-SFC	NoSubs
7	10	5	278	6	-13.0	0.235	-9.000	-9.000	-999.	273.	89.0	0.2160	0.72	1.00	2.60	270.0	15.0	284.9	2.0	0	0.00	78.	1004.	10	NAD-SFC	NoSubs
7	10	5	278	7	-8.6	0.237	-9.000	-9.000	-999.	277.	137.8	0.2160	0.72	0.50	2.60	272.0	15.0	284.4	2.0	0	0.00	81.	1004.	6	NAD-SFC	NoSubs
7	10	5	278	8	42.1	0.414	0.730	0.005	331.	639.	-150.8	0.2160	0.72	0.29	4.10	294.0	15.0	285.5	2.0	0	0.00	72.	1005.	5	NAD-SFC	NoSubs
7	10	5	278	9	76.2	0.358	1.282	0.005	991.	517.	-54.0	0.2720	0.72	0.22	3.10	304.0	15.0	286.8	2.0	0	0.00	62.	1005.	7	NAD-SFC	NoSubs
7	10	5	278	10	89.2	0.363	1.466	0.005	1267.	524.	-47.9	0.2720	0.72	0.20	3.10	303.0	15.0	287.6	2.0	0	0.00	56.	1005.	8	NAD-SFC	NoSubs
7	10	5	278	11	142.5	0.422	1.771	0.007	1399.	657.	-47.2	0.2720	0.72	0.20	3.60	308.0	15.0	288.2	2.0	0	0.00	52.	1005.	6	NAD-SFC	NoSubs
7	10	5	278	12	162.3	0.479	1.884	0.007	1479.	795.	-60.6	0.2930	0.72	0.19	4.10	331.0	15.0	288.6	2.0	0	0.00	51.	1004.	5	NAD-SFC	NoSubs
7	10	5	278	13	159.1	0.478	1.903	0.008	1554.	794.	-61.5	0.2930	0.72	0.19	4.10	332.0	15.0	288.9	2.0	0	0.00	49.	1004.	5	NAD-SFC	NoSubs
7	10	5	278	14	146.6	0.475	1.878	0.008	1620.	786.	-65.5	0.2930	0.72	0.20	4.10	340.0	15.0	289.2	2.0	0	0.00	47.	1004.	4	NAD-SFC	NoSubs
7	10	5	278	15	114.9	0.514	1.749	0.008	1670.	883.	-105.6	0.2930	0.72	0.21	4.60	351.0	15.0	289.2	2.0	0	0.00	45.	1004.	4	NAD-SFC	NoSubs
7	10	5	278	16	70.7	0.501	1.497	0.008	1700.	852.	-159.4	0.2930	0.72	0.24	4.60	341.0	15.0	289.2	2.0	0	0.00	44.	1003.	4	NAD-SFC	NoSubs
7	10	5	278	17	16.5	0.334	0.923	0.008	1706.	486.	-201.5	0.2930	0.72	0.36	3.10	354.0	15.0	288.8	2.0	0	0.00	53.	1004.	3	NAD-SFC	NoSubs
7	10	5	278	18	-37.1	0.354	-9.000	-9.000	-999.	506.	107.6	0.2930	0.72	0.74	3.60	353.0	15.0	287.5	2.0	0	0.00	57.	1005.	3	NAD-SFC	NoSubs
7	10	5	278	19	-32.0	0.303	-9.000	-9.000	-999.	402.	78.1	0.2930	0.72	1.00	3.10	348.0	15.0	286.8	2.0	0	0.00	58.	1006.	3	NAD-SFC	NoSubs
7	10	5	278	20	-25.8	0.252	-9.000	-9.000	-999.	304.	55.4	0.2930	0.72	1.00	2.60	335.0	15.0	286.2	2.0	0	0.00	58.	1006.	3	NAD-SFC	NoSubs
7	10	5	278	21	-8.0	0.137	-9.000	-9.000	-999.	129.	28.8	0.2720	0.72	1.00	1.50	320.0	15.0	285.6	2.0	0	0.00	60.	1007.	3	NAD-SFC	NoSubs
7	10	5	278	22	-1.7	0.084	-9.000	-9.000	-999.	59.	32.0	0.2930	0.72	1.00	0.50	345.0	15.0	284.6	2.0	0	0.00	63.	1008.	3	NAD-SFC	NoSubs
7	10	5	278	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	283.8	2.0	0	0.00	65.	1009.	3	NAD-SFC	NoSubs
7	10	5	278	24	-1.5	0.080	-9.000	-9.000	-999.	54.	31.2	0.1900	0.72	1.00	0.50	184.0	15.0	283.0	2.0	0	0.00	67.	1009.	3	NAD-SFC	NoSubs
7	10	6	279	1	-1.5	0.080	-9.000	-9.000	-999.	54.	31.2	0.1900	0.72	1.00	0.50	200.0	15.0	282.2	2.0	0	0.00	70.	1009.	3	NAD-SFC	NoSubs
7	10	6	279	2	-1.4	0.079	-9.000	-9.000	-999.	54.	31.0	0.1750	0.72	1.00	0.50	241.0	15.0	281.6	2.0	0	0.00	72.	1009.	3	NAD-SFC	NoSubs
7	10	6	279	3	-1.6	0.084	-9.000	-9.000	-999.	58.	32.0	0.2720	0.72	1.00	0.50	315.0	15.0	281.0	2.0	0	0.00	74.	1010.	3	NAD-SFC	NoSubs
7	10	6	279	4	-4.0	0.101	-9.000	-9.000	-999.	77.	23.3	0.2720	0.72	1.00	1.00	321.0	15.0	280.5	2.0	0	0.00	77.	1010.	3	NAD-SFC	NoSubs
7	10	6	279	5	-4.0	0.101	-9.000	-9.000	-999.	77.	23.3	0.2720	0.72	1.00	1.00	310.0	15.0	280.0	2.0	0	0.00	79.	1010.	3	NAD-SFC	NoSubs
7	10	6	279	6	-7.4	0.129	-9.000	-9.000	-999.	111.	26.0	0.2160	0.72	1.00	1.50	282.0	15.0	279.8	2.0	0	0.00	81.	1011.	2	NAD-SFC	NoSubs
7	10	6	279	7	-5.8	0.130	-9.000	-9.000	-999.	112.	34.0	0.2160	0.72	0.50	1.50	281.0	15.0	279.5	2.0	0	0.00	81.	1012.	2	NAD-SFC	NoSubs
7	10	6	279	8	38.8	0.198	0.490	0.005	109.	211.	-18.0	0.2720	0.72	0.29	1.50	325.0	15.0	281.8	2.0	0	0.00	67.	1013.	2	NAD-SFC	NoSubs
7	10	6	279	9	90.4	0.111	0.934	0.005	326.	91.	-1.4	0.2930	0.72	0.22	0.50	351.0	15.0	283.8	2.0	0	0.00	56.	1013.	2	NAD-SFC	NoSubs
7	10	6	279	10	130.4	-9.000	-9.000	-9.000	630.	-999.	-99999.0	0.2235	0.72	0.20	0.00	0.0	15.0	285.5	2.0	0	0.00	48.	1013.	2	NAD-SFC	NoSubs
7	10	6	279	11	156.7	-9.000	-9.000	-9.000	1043.	-999.	-99999.0	0.2235	0.72	0.20	0.00	0.0	15.0	287.1	2.0	0	0.00	42.	1013.	2	NAD-SFC	NoSubs
7	10	6	279	12	168.3	-9.000	-9.000	-9.000	1190.	-999.	-99999.0	0.2235	0.72	0.19	0.00	0.0	15.0	288.8	2.0	0	0.00	36.	1011.	2	NAD-SFC	NoSubs
7	10	6	279	13	165.0	-9.000	-9.000	-9.000	1319.	-999.	-99999.0	0.2235	0.72	0.19	0.00	0.0	15.0	289.8	2.0	0	0.00	33.	1010.	2	NAD-SFC	NoSubs
7	10	6	279	14	146.9	-9.000	-9.000	-9.000	1401.	-999.	-99999.0	0.2235	0.72	0.20	0.00	0.0	15.0	290.8	2.0	0	0.00	31.	1009.	2	NAD-SFC	NoSubs
7	10	6	279	15	114.4	0.115	1.666	0.006	1457.	93.	-1.2	0.2930	0.72	0.21	0.50	342.0	15.0	291.2	2.0	0	0.00	30.	1009.	2	NAD-SFC	NoSubs
7	10	6	279	16	68.7	0.164	1.416	0.006	1489.	159.	-5.8	0.2940	0.72	0.24	1.00	3.0	15.0	291.2	2.0	0	0.00	31.	1008.	2	NAD-SFC	NoSubs
7	10	6	279	17	14.3	0.184	0.841	0.006	1496.	189.	-38.8	0.2940	0.72	0.36	1.50	8.0	15.0	291.1	2.0	0	0.00	35.	1008.	2	NAD-SFC	NoSubs
7	10	6	279	18	-8.3	0.140	-9.000	-9.000	-999.	126.	29.5	0.2940	0.72	0.76	1.50	19.0	15.0	290.2	2.0	0	0.00	39.	1008.	2	NAD-SFC	NoSubs
7	10	6	279	19	-1.6	0.083	-9.000	-9.000	-999.	58.	31.8	0.2470	0.72	1.00	0.50	55.0	15.0	288.9	2.0	0	0.00	44.	1009.	2	NAD-SFC	NoSubs
7	10	6	279	20	-1.5	0.081	-9.000	-9.000	-999.	55.	31.5	0.2090	0.72	1.00	0.50	77.0	15.0	287.5	2.0	0	0.00	50.	1009.	2	NAD-SFC	NoSubs
7	10	6	279	21	-1.5	0.080	-9.000	-9.000	-999.	54.	31.2	0.1810	0.72	1.00	0.50	153.0	15.0	286.2	2.0	0	0.00	56.	1009.	2	NAD-SFC	NoSubs
7	10	6	279	22	-3.5	0.095	-9.000	-9.000	-999.	70.	21.8	0.1810	0.72	1.00	1.00	169.0	15.0	285.1	2.0	0	0.00	60.	1009.	2	NAD-SFC	NoSubs
7	10	6	279	23	-6.8	0.124	-9.000	-9.000	-999.	104.	24.8	0.1810	0.72	1.00	1.50	156.0	15.0	284.4	2.0	0	0.00	62.	1009.	2	NAD-SFC	NoSubs
7	10	6	279	24	-6.9	0.124	-9.000	-9.000	-999.	104.	24.8	0.1810	0.72	1.00	1.50	162.0	15.0	283.9	2.0	0	0.00	62.	1009.	2	NAD-SFC	NoSubs
7	10	7	280	1	-6.9	0.124	-9.000	-9.000	-999.	104.	24.8	0.1810	0.72	1.00	1.50	159.0	15.0	283.4	2.0	0	0.00	62.	1009.	2	NAD-SFC	NoSubs
7	10	7	280	2	-1.5	0.080	-9.000	-9.000	-999.	55.	31.3	0.1810	0.72	1.00	0.50	164.0	15.0	282.9	2.0	0	0.00	62.	1009.	2	NAD-SFC	NoSubs

7	10	7	280	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	282.4	2.0	0	0.00	64.	1009.	2	NAD-SFC	NoSubs
7	10	7	280	4	-1.7	0.084	-9.000	-9.000	-999.	59.	32.2	0.2720	0.72	1.00	0.50	327.0	15.0	281.8	2.0	0	0.00	66.	1010.	2	NAD-SFC	NoSubs
7	10	7	280	5	-1.7	0.085	-9.000	-9.000	-999.	59.	32.3	0.2720	0.72	1.00	0.50	321.0	15.0	281.2	2.0	0	0.00	68.	1010.	2	NAD-SFC	NoSubs
7	10	7	280	6	-8.2	0.137	-9.000	-9.000	-999.	122.	28.2	0.2720	0.72	1.00	1.50	308.0	15.0	281.0	2.0	0	0.00	69.	1010.	2	NAD-SFC	NoSubs
7	10	7	280	7	-13.0	0.199	-9.000	-9.000	-999.	213.	54.3	0.2720	0.72	0.51	2.10	316.0	15.0	281.0	2.0	0	0.00	68.	1010.	2	NAD-SFC	NoSubs
7	10	7	280	8	38.2	0.252	0.443	0.006	82.	303.	-37.7	0.2720	0.72	0.29	2.10	307.0	15.0	283.2	2.0	0	0.00	59.	1010.	2	NAD-SFC	NoSubs
7	10	7	280	9	89.8	0.216	0.869	0.006	263.	241.	-10.1	0.2720	0.72	0.22	1.50	310.0	15.0	285.5	2.0	0	0.00	52.	1010.	2	NAD-SFC	NoSubs
7	10	7	280	10	130.0	0.174	1.231	0.007	517.	175.	-3.7	0.2720	0.72	0.20	1.00	311.0	15.0	287.9	2.0	0	0.00	44.	1010.	2	NAD-SFC	NoSubs
7	10	7	280	11	156.4	0.178	1.452	0.009	704.	180.	-3.3	0.2720	0.72	0.20	1.00	321.0	15.0	290.0	2.0	0	0.00	37.	1009.	2	NAD-SFC	NoSubs
7	10	7	280	12	168.1	0.180	1.563	0.009	818.	183.	-3.1	0.2720	0.72	0.19	1.00	314.0	15.0	291.6	2.0	0	0.00	34.	1008.	2	NAD-SFC	NoSubs
7	10	7	280	13	165.0	0.179	1.615	0.009	917.	182.	-3.1	0.2720	0.72	0.20	1.00	329.0	15.0	293.2	2.0	0	0.00	31.	1007.	2	NAD-SFC	NoSubs
7	10	7	280	14	147.0	0.180	1.596	0.009	994.	184.	-3.6	0.2940	0.72	0.20	1.00	6.0	15.0	294.2	2.0	0	0.00	30.	1006.	2	NAD-SFC	NoSubs
7	10	7	280	15	114.4	0.226	1.493	0.009	1045.	257.	-9.0	0.2940	0.72	0.21	1.50	27.0	15.0	294.8	2.0	0	0.00	30.	1005.	2	NAD-SFC	NoSubs
7	10	7	280	16	68.8	0.316	1.272	0.009	1074.	426.	-41.1	0.2940	0.72	0.25	2.60	28.0	15.0	295.1	2.0	0	0.00	30.	1005.	2	NAD-SFC	NoSubs
7	10	7	280	17	14.0	0.365	0.750	0.009	1078.	528.	-309.4	0.2470	0.72	0.37	3.60	32.0	15.0	293.9	2.0	0	0.00	42.	1004.	2	NAD-SFC	NoSubs
7	10	7	280	18	-37.6	0.355	-9.000	-9.000	-999.	507.	106.3	0.2940	0.72	0.77	3.60	27.0	15.0	292.4	2.0	0	0.00	45.	1005.	2	NAD-SFC	NoSubs
7	10	7	280	19	-16.6	0.200	-9.000	-9.000	-999.	232.	43.1	0.2940	0.72	1.00	2.10	27.0	15.0	291.6	2.0	0	0.00	45.	1005.	2	NAD-SFC	NoSubs
7	10	7	280	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	290.5	2.0	0	0.00	49.	1005.	2	NAD-SFC	NoSubs
7	10	7	280	21	-7.0	0.126	-9.000	-9.000	-999.	107.	25.5	0.1950	0.72	1.00	1.50	226.0	15.0	289.1	2.0	0	0.00	56.	1005.	2	NAD-SFC	NoSubs
7	10	7	280	22	-13.2	0.173	-9.000	-9.000	-999.	173.	35.1	0.1750	0.72	1.00	2.10	265.0	15.0	288.4	2.0	0	0.00	58.	1005.	2	NAD-SFC	NoSubs
7	10	7	280	23	-4.0	0.101	-9.000	-9.000	-999.	78.	23.3	0.2720	0.72	1.00	1.00	305.0	15.0	287.8	2.0	0	0.00	60.	1005.	2	NAD-SFC	NoSubs
7	10	7	280	24	-3.8	0.099	-9.000	-9.000	-999.	75.	22.9	0.2470	0.72	1.00	1.00	51.0	15.0	286.8	2.0	0	0.00	64.	1005.	2	NAD-SFC	NoSubs
7	10	8	281	1	-1.5	0.081	-9.000	-9.000	-999.	56.	31.6	0.2130	0.72	1.00	0.50	95.0	15.0	285.9	2.0	0	0.00	67.	1004.	2	NAD-SFC	NoSubs
7	10	8	281	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	285.2	2.0	0	0.00	69.	1004.	2	NAD-SFC	NoSubs
7	10	8	281	3	-1.7	0.084	-9.000	-9.000	-999.	58.	32.1	0.2720	0.72	1.00	0.50	320.0	15.0	284.8	2.0	0	0.00	68.	1004.	2	NAD-SFC	NoSubs
7	10	8	281	4	-4.1	0.103	-9.000	-9.000	-999.	79.	23.6	0.2930	0.72	1.00	1.00	341.0	15.0	284.4	2.0	0	0.00	68.	1004.	2	NAD-SFC	NoSubs
7	10	8	281	5	-8.4	0.140	-9.000	-9.000	-999.	125.	29.1	0.2930	0.72	1.00	1.50	336.0	15.0	283.9	2.0	0	0.00	70.	1004.	2	NAD-SFC	NoSubs
7	10	8	281	6	-4.1	0.103	-9.000	-9.000	-999.	79.	23.6	0.2930	0.72	1.00	1.00	345.0	15.0	283.4	2.0	0	0.00	71.	1004.	2	NAD-SFC	NoSubs
7	10	8	281	7	-2.9	0.093	-9.000	-9.000	-999.	68.	24.8	0.2720	0.72	0.51	1.00	311.0	15.0	283.1	2.0	0	0.00	72.	1004.	2	NAD-SFC	NoSubs
7	10	8	281	8	37.7	0.197	0.446	0.010	84.	210.	-18.2	0.2720	0.72	0.29	1.50	319.0	15.0	284.9	2.0	0	0.00	63.	1004.	2	NAD-SFC	NoSubs
7	10	8	281	9	89.3	0.216	0.834	0.010	233.	241.	-10.1	0.2720	0.72	0.22	1.50	307.0	15.0	287.5	2.0	0	0.00	55.	1004.	2	NAD-SFC	NoSubs
7	10	8	281	10	129.6	0.174	1.126	0.009	394.	175.	-3.7	0.2720	0.72	0.20	1.00	320.0	15.0	290.0	2.0	0	0.00	49.	1004.	2	NAD-SFC	NoSubs
7	10	8	281	11	156.2	0.120	1.325	0.008	533.	100.	-1.0	0.2930	0.72	0.20	0.50	331.0	15.0	292.5	2.0	0	0.00	42.	1003.	2	NAD-SFC	NoSubs
7	10	8	281	12	168.2	0.121	1.453	0.007	651.	101.	-1.0	0.2930	0.72	0.19	0.50	342.0	15.0	294.8	2.0	0	0.00	33.	1001.	2	NAD-SFC	NoSubs
7	10	8	281	13	165.0	0.121	1.532	0.007	778.	101.	-1.0	0.2940	0.72	0.20	0.50	4.0	15.0	296.1	2.0	0	0.00	31.	1000.	2	NAD-SFC	NoSubs
7	10	8	281	14	146.9	0.180	1.534	0.006	877.	184.	-3.6	0.2940	0.72	0.20	1.00	9.0	15.0	297.0	2.0	0	0.00	31.	1000.	2	NAD-SFC	NoSubs
7	10	8	281	15	114.2	0.226	1.448	0.006	948.	258.	-9.0	0.2940	0.72	0.21	1.50	23.0	15.0	297.5	2.0	0	0.00	32.	999.	2	NAD-SFC	NoSubs
7	10	8	281	16	68.3	0.304	1.239	0.006	991.	403.	-36.7	0.2470	0.72	0.25	2.60	35.0	15.0	297.2	2.0	0	0.00	36.	998.	2	NAD-SFC	NoSubs
7	10	8	281	17	13.4	0.379	0.722	0.006	997.	561.	-361.3	0.2940	0.72	0.37	3.60	28.0	15.0	295.8	2.0	0	0.00	47.	998.	2	NAD-SFC	NoSubs
7	10	8	281	18	-40.5	0.386	-9.000	-9.000	-999.	576.	126.9	0.2470	0.72	1.00	4.10	34.0	15.0	294.1	2.0	0	0.00	51.	999.	2	NAD-SFC	NoSubs
7	10	8	281	19	-37.3	0.355	-9.000	-9.000	-999.	508.	106.7	0.2940	0.72	1.00	3.60	20.0	15.0	293.2	2.0	0	0.00	52.	999.	2	NAD-SFC	NoSubs
7	10	8	281	20	-8.2	0.140	-9.000	-9.000	-999.	178.	29.6	0.2930	0.72	1.00	1.50	347.0	15.0	292.2	2.0	0	0.00	54.	999.	2	NAD-SFC	NoSubs
7	10	8	281	21	-14.3	0.183	-9.000	-9.000	-999.	188.	38.1	0.2160	0.72	1.00	2.10	295.0	15.0	291.1	2.0	0	0.00	59.	1000.	2	NAD-SFC	NoSubs
7	10	8	281	22	-22.4	0.230	-9.000	-9.000	-999.	265.	48.8	0.2160	0.72	1.00	2.60	294.0	15.0	290.0	2.0	0	0.00	61.	1000.	2	NAD-SFC	NoSubs
7	10	8	281	23	-14.3	0.183	-9.000	-9.000	-999.	188.	38.0	0.2160	0.72	1.00	2.10	287.0	15.0	289.1	2.0	0	0.00	61.	1000.	2	NAD-SFC	NoSubs
7	10	8	281	24	-8.0	0.137	-9.000	-9.000	-999.	122.	28.6	0.2720	0.72	1.00	1.50	301.0	15.0	288.2	2.0	0	0.00	62.	1000.	2	NAD-SFC	NoSubs
7	10	9	282	1	-3.6	0.097	-9.000	-9.000	-999.	73.	22.4	0.2160	0.72	1.00	1.00	296.0	15.0	287.4	2.0	0	0.00	63.	1000.	2	NAD-SFC	NoSubs
7	10	9	282	2	-4.0	0.101	-9.000	-9.000	-999.	77.	23.3	0.2720	0.72	1.00	1.00	313.0	15.0	286.8	2.0	0	0.00	64.	1000.	2	NAD-SFC	NoSubs
7	10	9	282	3	-1.6	0.084	-9.000	-9.000	-999.	58.	32.1	0.2720	0.72	1.00	0.50	304.0	15.0	286.2	2.0	0	0.00	65.	1001.	2	NAD-SFC	NoSubs
7	10	9	282	4	-3.7	0.097	-9.000	-9.000	-999.	73.	22.4	0.2160	0.72	1.00	1.00	282.0	15.0	285.6	2.0	0	0.00	65.	1001.	2	NAD-SFC	NoSubs
7	10	9	282	5	-7.3	0.129	-9.000	-9.000	-999.	111.	26.2	0.2160	0.72	1.00	1.50	277.0	15.0	285.2	2.0	0	0.00	63.	1001.	2	NAD-SFC	NoSubs
7	10	9	282	6	-7.3	0.129	-9.000	-9.000	-999.	111.	26.2	0.2160	0.72	1.00	1.50	286.0	15.0	285.1	2.0	0	0.00	60.	1002.	2	NAD-SFC	NoSubs
7	10	9	282	7	-6.8	0.141	-9.000	-9.000	-999.	127.	37.2	0.2930	0.72	0.52	1.50	353.0	15.0	285.1	2.0	0	0.00	59.	1002.	2	NAD-SFC	NoSubs
7	10	9	282	8	37.1	0.200	0.430	0.008	76.	215.	-19.4	0.2940	0.72	0.29	1.50	18.0	15.0	286.2	2.0	0	0.00	56.	1002.	2	NAD-SFC	NoSubs
7	10	9	282	9	89.2	0.169	0.785	0.008	194.	167.	-4.8	0.2930	0.72	0.22	1.00	353.0	15.0	290.2	2.0	0	0.00	40.	1003.	2	NAD-SFC	NoSubs
7	10	9	282	10	129.5	-9.000	-9.000	-9.000	367.	-999.	-99999.0	0.2235	0.72	0.20	0.00	0.0	15.0	292.8	2.0	0	0.00	36.	1003.	2	NAD-SFC	NoSubs
7	10	9	282	11	156.1	0.120	1.362	0.005	579.	100.	-1.0	0.2930	0.72	0.20	0.50	351.0	15.0	294.9	2.0	0	0.00	31.	1002.	2	NAD-SFC	NoSubs
7	10	9	282	12	167.8	-9.000	-9.000	-9.000	768.	-999.	-99999.0	0.2235	0.72	0.19	0.00	0.0	15.0	296.4	2.0	0	0.00	27.	1002.	2	NAD-SFC	NoSubs
7	10	9	282	13	164.4	-9.000	-9.000	-9.000	929.	-999.	-99999.0	0.2235	0.72	0.20	0.00	0.0	15.0	297.5	2.0	0	0.00	24.	1001.	2	NAD-SFC	NoSubs
7	10	9	282	14	146.1	0.119	1.629	0.005	1058.	98.	-1.0	0.2930	0.72	0.20	0.50	352.0	15.0	298.2	2.0	0	0.00	23.	1001.	2	NAD-SFC	NoSubs
7	10	9	282	15	113.4	0.171	1.540	0.005	1152.	170.	-4.0	0.2720	0.72	0.21	1.00	315.0	15.0	298.6	2.0	0	0.00	22.	1001.	2	NAD-SFC	NoSubs
7	10	9	282	16	67.3	0.265	1.314	0.005	1203.	327.	-24.5	0.2720	0.72	0.25	2.10	305.0	15.0	298.2	2.0	0	0.00	28.	1000.	2	NAD-SFC	NoSubs
7	10	9	282	17	12.7	0.353	0.755	0.005	1208.	503.	-307.8	0.2160	0.72	0.38	3.60	294.0	15.0	297.0	2.0	0	0.00	37.	1001.	2	NAD-SFC	NoSubs
7	10	9	282	18	-44.2	0.420	-9.000	-9.000	-999.	653.	149.6	0.2160	0.72	1.00	4.60	287.0	15.0	293.6	2.0	0	0.00	48.	1001.	2	NAD-SFC	NoSubs
7	10	9	282	19	-39.6	0.372	-9.000	-9.000	-999.	547.	116.6	0.2160	0.72	1.00	4.10	281.0	15.0	290.9	2.0	0	0.00	59.	1002.	2	NAD-SFC	NoSubs
7	10	9	282	20	-34.7	0.325	-9.000	-9.000	-999.	446.	88.5	0.2160	0.72	1.00	3.60	293.0	15.0	289.8	2.0	0	0.00	63.	1003.	2	NAD-SFC	NoSubs
7	10	9	282	21	-31.7	0.296	-9.000	-9.000	-999.	388.	73.4	0.2720	0.72	1.00	3.10	311.0	15.0	289.2	2.0	0	0.00	64.	1004.	2	NAD-SFC	NoSubs
7	10	9	282	22	-32.5	0.303	-9.000	-9.000	-999.	400.	76.7	0.2930	0.72	1.00	3.10	336.0	15.0	289.0	2.0	0	0.00	63.	1005.	2	NAD-SFC	NoSubs
7	10	9	282	23	-26.0	0.252	-9.000	-9.000	-999.	304.	54.9	0.2940	0.72	1.00	2.60	6.0	15.0	288.8	2.0	0	0.00	64.	1005.	2	NAD-SFC	NoSubs
7	10	9	282	24	-31.0	0.288	-9.000	-9.000	-999.	371.	69.2	0.2470	0.72	1.00	3.10	34.0	15.0	288.2	2.0	0	0.00	67.	1005.	2	NAD-SFC	NoSubs
7	10	10	283	1	-26.1	0.252	-9.000	-9.000	-999.	303.	54.8	0.2940	0.72	1.00	2.60	29.0	15.0	287.8	2.0	0	0.00	70.	1005.	2	NAD-SFC	NoSubs
7	10	10	283	2	-25.8	0.252	-9.000	-9.000	-999.	303.	55.6	0.2940	0.72	1.00	2.60	19.0	15.0	287.6	2.0	0	0.00	71.	1005.	3	NAD-SFC	NoSubs
7	10	10	283	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	287.2	2.0	0	0.00	73.	1006.	3	NAD-SFC	NoSubs
7	10	10	283	4	-1.5	0.081	-9.000	-9.000	-999.	55.	31.3	0.2160	0.72	1.00	0.50	281.0	15.0	286.8	2.0	0	0.00	76.	1006.	3	NAD-SFC	NoSubs
7	10	10	283	5	-1.5	0.080	-9.000	-9.000	-999.	54.	31.1	0.1950	0.72	1.00	0.50	239.0	15.0	286.2	2.0	0	0.00	80.	1006.	3	NAD-SFC	NoSubs
7	10	10	283	6	-1.4	0.077	-9.000	-9.000	-999.	51.	30.2	0.1950	0.72	1.00	0.50	222.0	15.0	285.9	2.0	0	0.00	83.	1007.	5	NAD-SFC	NoSubs
7	10	10	283	7	2.3	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	0.53	0.00	0.0	15.0	285.6	2.0	0	0.00	87.	1007.	8	NAD-SFC	NoSubs

7	10	10	283	8	5.9	0.073	0.233	0.005	76.	47.	-5.9	0.2130	0.72	0.30	0.50	112.0	15.0	286.2	2.0	0	0.00	87.	1007.	10	NAD-SFC	NoSubs
7	10	10	283	9	72.4	0.099	0.914	0.005	379.	75.	-1.2	0.1970	0.72	0.23	0.50	136.0	15.0	287.0	2.0	0	0.00	84.	1007.	7	NAD-SFC	NoSubs
7	10	10	283	10	122.5	0.105	1.263	0.005	591.	82.	-1.0	0.1900	0.72	0.20	0.50	182.0	15.0	288.0	2.0	0	0.00	78.	1007.	5	NAD-SFC	NoSubs
7	10	10	283	11	151.7	-9.000	-9.000	-9.000	773.	-999.	-99999.0	0.2235	0.72	0.20	0.00	0.0	15.0	289.9	2.0	0	0.00	71.	1007.	4	NAD-SFC	NoSubs
7	10	10	283	12	162.7	-9.000	-9.000	-9.000	927.	-999.	-99999.0	0.2235	0.72	0.20	0.00	0.0	15.0	291.1	2.0	0	0.00	66.	1006.	4	NAD-SFC	NoSubs
7	10	10	283	13	154.3	-9.000	-9.000	-9.000	1061.	-999.	-99999.0	0.2235	0.72	0.20	0.00	0.0	15.0	292.2	2.0	0	0.00	61.	1005.	5	NAD-SFC	NoSubs
7	10	10	283	14	137.3	0.110	1.649	0.007	1172.	87.	-1.0	0.2160	0.72	0.20	0.50	291.0	15.0	293.2	2.0	0	0.00	57.	1004.	5	NAD-SFC	NoSubs
7	10	10	283	15	109.7	0.221	1.565	0.007	1252.	250.	-8.8	0.2720	0.72	0.21	1.50	308.0	15.0	293.8	2.0	0	0.00	55.	1004.	4	NAD-SFC	NoSubs
7	10	10	283	16	65.3	0.264	1.333	0.008	1299.	325.	-25.1	0.2720	0.72	0.25	2.10	324.0	15.0	293.9	2.0	0	0.00	54.	1003.	4	NAD-SFC	NoSubs
7	10	10	283	17	11.7	0.277	0.752	0.008	1306.	350.	-163.7	0.2720	0.72	0.38	2.60	328.0	15.0	293.8	2.0	0	0.00	60.	1003.	3	NAD-SFC	NoSubs
7	10	10	283	18	-31.2	0.303	-9.000	-9.000	-999.	401.	79.9	0.2930	0.72	1.00	3.10	332.0	15.0	292.9	2.0	0	0.00	62.	1003.	3	NAD-SFC	NoSubs
7	10	10	283	19	-31.3	0.303	-9.000	-9.000	-999.	401.	79.6	0.2930	0.72	1.00	3.10	345.0	15.0	291.9	2.0	0	0.00	66.	1003.	3	NAD-SFC	NoSubs
7	10	10	283	20	-31.5	0.303	-9.000	-9.000	-999.	401.	79.3	0.2930	0.72	1.00	3.10	350.0	15.0	290.8	2.0	0	0.00	71.	1004.	3	NAD-SFC	NoSubs
7	10	10	283	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	289.4	2.0	0	0.00	78.	1004.	3	NAD-SFC	NoSubs
7	10	10	283	22	-15.1	0.190	-9.000	-9.000	-999.	199.	40.6	0.2470	0.72	1.00	2.10	35.0	15.0	288.5	2.0	0	0.00	82.	1004.	3	NAD-SFC	NoSubs
7	10	10	283	23	-1.6	0.082	-9.000	-9.000	-999.	64.	31.6	0.2470	0.72	1.00	0.50	48.0	15.0	287.8	2.0	0	0.00	85.	1005.	3	NAD-SFC	NoSubs
7	10	10	283	24	-3.9	0.100	-9.000	-9.000	-999.	76.	23.3	0.2720	0.72	1.00	1.00	305.0	15.0	286.9	2.0	0	0.00	88.	1004.	3	NAD-SFC	NoSubs
7	10	11	284	1	-8.0	0.137	-9.000	-9.000	-999.	122.	28.8	0.2720	0.72	1.00	1.50	324.0	15.0	286.2	2.0	0	0.00	92.	1004.	3	NAD-SFC	NoSubs
7	10	11	284	2	-8.0	0.137	-9.000	-9.000	-999.	122.	28.8	0.2720	0.72	1.00	1.50	325.0	15.0	285.6	2.0	0	0.00	95.	1004.	3	NAD-SFC	NoSubs
7	10	11	284	3	-16.0	0.195	-9.000	-9.000	-999.	207.	41.9	0.2720	0.72	1.00	2.10	319.0	15.0	285.1	2.0	0	0.00	98.	1005.	3	NAD-SFC	NoSubs
7	10	11	284	4	-24.9	0.246	-9.000	-9.000	-999.	293.	53.6	0.2720	0.72	1.00	2.60	317.0	15.0	284.8	2.0	0	0.00	99.	1005.	3	NAD-SFC	NoSubs
7	10	11	284	5	-24.9	0.246	-9.000	-9.000	-999.	293.	53.5	0.2720	0.72	1.00	2.60	324.0	15.0	284.2	2.0	0	0.00	100.	1005.	3	NAD-SFC	NoSubs
7	10	11	284	6	-25.0	0.246	-9.000	-9.000	-999.	293.	53.4	0.2720	0.72	1.00	2.60	322.0	15.0	283.2	2.0	0	0.00	100.	1005.	3	NAD-SFC	NoSubs
7	10	11	284	7	-13.3	0.199	-9.000	-9.000	-999.	213.	52.8	0.2720	0.72	0.53	2.10	327.0	15.0	282.8	2.0	0	0.00	99.	1006.	3	NAD-SFC	NoSubs
7	10	11	284	8	36.1	0.200	0.501	0.005	125.	214.	-19.8	0.2930	0.72	0.30	1.50	340.0	15.0	284.1	2.0	0	0.00	86.	1006.	3	NAD-SFC	NoSubs
7	10	11	284	9	85.8	-9.000	-9.000	-9.000	333.	-999.	-99999.0	0.2235	0.72	0.23	0.00	0.0	15.0	286.0	2.0	0	0.00	74.	1006.	2	NAD-SFC	NoSubs
7	10	11	284	10	125.6	-9.000	-9.000	-9.000	648.	-999.	-99999.0	0.2235	0.72	0.20	0.00	0.0	15.0	287.8	2.0	0	0.00	64.	1006.	2	NAD-SFC	NoSubs
7	10	11	284	11	151.7	-9.000	-9.000	-9.000	864.	-999.	-99999.0	0.2235	0.72	0.20	0.00	0.0	15.0	289.5	2.0	0	0.00	60.	1005.	2	NAD-SFC	NoSubs
7	10	11	284	12	163.1	-9.000	-9.000	-9.000	1001.	-999.	-99999.0	0.2235	0.72	0.20	0.00	0.0	15.0	290.9	2.0	0	0.00	56.	1004.	2	NAD-SFC	NoSubs
7	10	11	284	13	159.5	-9.000	-9.000	-9.000	1064.	-999.	-99999.0	0.2235	0.72	0.20	0.00	0.0	15.0	292.1	2.0	0	0.00	53.	1003.	2	NAD-SFC	NoSubs
7	10	11	284	14	141.1	-9.000	-9.000	-9.000	1117.	-999.	-99999.0	0.2235	0.72	0.20	0.00	0.0	15.0	293.1	2.0	0	0.00	50.	1002.	2	NAD-SFC	NoSubs
7	10	11	284	15	108.3	0.173	1.519	0.014	1157.	173.	-4.3	0.2940	0.72	0.21	1.00	10.0	15.0	293.8	2.0	0	0.00	47.	1001.	2	NAD-SFC	NoSubs
7	10	11	284	16	62.3	0.211	1.272	0.014	1178.	233.	-13.5	0.2940	0.72	0.25	1.50	19.0	15.0	293.8	2.0	0	0.00	47.	1001.	2	NAD-SFC	NoSubs
7	10	11	284	17	8.4	0.268	0.654	0.014	1180.	332.	-202.6	0.2470	0.72	0.39	2.60	40.0	15.0	293.2	2.0	0	0.00	53.	1001.	2	NAD-SFC	NoSubs
7	10	11	284	18	-30.5	0.288	-9.000	-9.000	-999.	372.	70.3	0.2470	0.72	1.00	3.10	55.0	15.0	292.2	2.0	0	0.00	57.	1001.	2	NAD-SFC	NoSubs
7	10	11	284	19	-28.5	0.276	-9.000	-9.000	-999.	348.	65.6	0.2090	0.72	1.00	3.10	64.0	15.0	291.0	2.0	0	0.00	61.	1001.	3	NAD-SFC	NoSubs
7	10	11	284	20	-3.5	0.096	-9.000	-9.000	-999.	109.	22.3	0.2130	0.72	1.00	1.00	96.0	15.0	289.8	2.0	0	0.00	66.	1001.	3	NAD-SFC	NoSubs
7	10	11	284	21	-20.3	0.218	-9.000	-9.000	-999.	245.	45.8	0.1750	0.72	1.00	2.60	259.0	15.0	288.8	2.0	0	0.00	72.	1002.	3	NAD-SFC	NoSubs
7	10	11	284	22	-37.0	0.353	-9.000	-9.000	-999.	503.	106.0	0.1750	0.72	1.00	4.10	269.0	15.0	287.0	2.0	0	0.00	80.	1002.	3	NAD-SFC	NoSubs
7	10	11	284	23	-34.3	0.325	-9.000	-9.000	-999.	446.	89.7	0.2160	0.72	1.00	3.60	278.0	15.0	285.9	2.0	0	0.00	85.	1002.	3	NAD-SFC	NoSubs
7	10	11	284	24	-27.8	0.263	-9.000	-9.000	-999.	326.	58.7	0.1750	0.72	1.00	3.10	266.0	15.0	285.5	2.0	0	0.00	84.	1002.	3	NAD-SFC	NoSubs
7	10	12	285	1	-7.2	0.129	-9.000	-9.000	-999.	123.	26.6	0.2160	0.72	1.00	1.50	280.0	15.0	285.4	2.0	0	0.00	81.	1002.	3	NAD-SFC	NoSubs
7	10	12	285	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	285.4	2.0	0	0.00	80.	1002.	3	NAD-SFC	NoSubs
7	10	12	285	3	-3.6	0.096	-9.000	-9.000	-999.	71.	22.3	0.2090	0.72	1.00	1.00	76.0	15.0	285.2	2.0	0	0.00	80.	1002.	3	NAD-SFC	NoSubs
7	10	12	285	4	-1.5	0.081	-9.000	-9.000	-999.	55.	31.3	0.2090	0.72	1.00	0.50	86.0	15.0	284.9	2.0	0	0.00	80.	1002.	3	NAD-SFC	NoSubs
7	10	12	285	5	-1.7	0.084	-9.000	-9.000	-999.	58.	32.0	0.2940	0.72	1.00	0.50	18.0	15.0	284.4	2.0	0	0.00	81.	1002.	3	NAD-SFC	NoSubs
7	10	12	285	6	-1.6	0.083	-9.000	-9.000	-999.	58.	32.0	0.2470	0.72	1.00	0.50	45.0	15.0	283.9	2.0	0	0.00	84.	1002.	2	NAD-SFC	NoSubs
7	10	12	285	7	16.1	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	0.54	0.00	0.0	15.0	283.2	2.0	0	0.00	86.	1002.	2	NAD-SFC	NoSubs
7	10	12	285	8	33.7	0.089	0.602	0.008	231.	64.	-1.9	0.1970	0.72	0.30	0.50	124.0	15.0	284.4	2.0	0	0.00	79.	1002.	2	NAD-SFC	NoSubs
7	10	12	285	9	84.9	0.101	0.929	0.006	338.	77.	-1.1	0.1970	0.72	0.23	0.50	133.0	15.0	286.6	2.0	0	0.00	67.	1002.	2	NAD-SFC	NoSubs
7	10	12	285	10	124.7	0.159	1.195	0.005	489.	152.	-2.9	0.1810	0.72	0.20	1.00	153.0	15.0	288.4	2.0	0	0.00	58.	1002.	2	NAD-SFC	NoSubs
7	10	12	285	11	150.7	0.166	1.401	0.005	653.	162.	-2.7	0.1970	0.72	0.20	1.00	148.0	15.0	290.0	2.0	0	0.00	52.	1001.	2	NAD-SFC	NoSubs
7	10	12	285	12	162.2	0.111	1.594	0.007	891.	89.	-1.0	0.1970	0.72	0.20	0.50	134.0	15.0	291.2	2.0	0	0.00	49.	1000.	3	NAD-SFC	NoSubs
7	10	12	285	13	156.8	-9.000	-9.000	-9.000	1033.	-999.	-99999.0	0.2235	0.72	0.20	0.00	0.0	15.0	292.2	2.0	0	0.00	48.	999.	4	NAD-SFC	NoSubs
7	10	12	285	14	126.7	-9.000	-9.000	-9.000	1111.	-999.	-99999.0	0.2235	0.72	0.20	0.00	0.0	15.0	293.1	2.0	0	0.00	49.	998.	6	NAD-SFC	NoSubs
7	10	12	285	15	25.5	-9.000	-9.000	-9.000	1127.	-999.	-99999.0	0.2235	0.72	0.21	0.00	0.0	15.0	293.5	2.0	0	0.00	52.	998.	10	NAD-SFC	NoSubs
7	10	12	285	16	58.6	0.249	1.242	0.010	1163.	298.	-23.4	0.2160	0.72	0.26	2.10	273.0	15.0	294.9	2.0	0	0.00	49.	997.	6	NAD-SFC	NoSubs
7	10	12	285	17	0.6	0.387	0.271	0.010	1162.	579.	-8552.4	0.2160	0.72	0.39	4.10	293.0	15.0	293.8	2.0	0	0.00	63.	997.	10	NAD-SFC	NoSubs
7	10	12	285	18	-23.0	0.426	-9.000	-9.000	-999.	666.	299.1	0.2160	0.72	1.00	4.60	296.0	15.0	291.2	2.0	0	0.00	81.	998.	10	NAD-SFC	NoSubs
7	10	12	285	19	-19.0	0.351	-9.000	-9.000	-999.	504.	203.1	0.2720	0.72	1.00	3.60	319.0	15.0	290.2	2.0	0	0.25	90.	998.	10	NAD-SFC	NoSubs
7	10	12	285	20	-13.9	0.256	-9.000	-9.000	-999.	316.	107.6	0.2930	0.72	1.00	2.60	337.0	15.0	289.8	2.0	0	0.25	93.	999.	10	NAD-SFC	NoSubs
7	10	12	285	21	-11.1	0.205	-9.000	-9.000	-999.	223.	68.7	0.2930	0.72	1.00	2.10	351.0	15.0	289.8	2.0	0	0.25	91.	999.	10	NAD-SFC	NoSubs
7	10	12	285	22	-6.0	0.143	-9.000	-9.000	-999.	130.	42.9	0.2930	0.72	1.00	1.50	348.0	15.0	289.8	2.0	0	0.00	88.	999.	10	NAD-SFC	NoSubs
7	10	12	285	23	-2.3	0.086	-9.000	-9.000	-999.	62.	25.0	0.2160	0.72	1.00	1.00	298.0	15.0	289.8	2.0	0	0.00	86.	1000.	10	NAD-SFC	NoSubs
7	10	12	285	24	-2.3	0.086	-9.000	-9.000	-999.	61.	25.0	0.2160	0.72	1.00	1.00	293.0	15.0	289.6	2.0	0	0.00	86.	1000.	10	NAD-SFC	NoSubs
7	10	13	286	1	-5.8	0.139	-9.000	-9.000	-999.	125.	41.6	0.2720	0.72	1.00	1.50	313.0	15.0	289.4	2.0	0	0.00	87.	1000.	10	NAD-SFC	NoSubs
7	10	13	286	2	-10.9	0.200	-9.000	-9.000	-999.	215.	65.6	0.2720	0.72	1.00	2.10	312.0	15.0	289.1	2.0	0	0.00	89.	1000.	10	NAD-SFC	NoSubs
7	10	13	286	3	-18.5	0.249	-9.000	-9.000	-999.	298.	74.4	0.2720	0.72	1.00	2.60	302.0	15.0	288.8	2.0	0	0.00	90.	1001.	8	NAD-SFC	NoSubs
7	10	13	286	4	-19.2	0.351	-9.000	-9.000	-999.	500.	201.4	0.2720	0.72	1.00	3.60	310.0	15.0	287.9	2.0	0	0.00	94.	1001.	10	NAD-SFC	NoSubs
7	10	13	286	5	-16.5	0.301	-9.000	-9.000	-999.	397.	147.1	0.2720	0.72	1.00	3.10	308.0	15.0	287.1	2.0	0	0.00	98.	1002.	10	NAD-SFC	NoSubs
7	10	13	286	6	-15.5	0.282	-9.000	-9.000	-999.	360.	129.3	0.2160	0.72	1.00	3.10	297.0	15.0	286.8	2.0	0	0.00	99.	1002.	10	NAD-SFC	NoSubs
7	10	13	286	7	-11.5	0.251	-9.000	-9.000	-999.	303.	123.4	0.2720	0.72	0.55	2.60	301.0	15.0	286.8	2.0	0	0.00	97.	1003.	10	NAD-SFC	NoSubs
7	10	13	286	8	5.5	0.270	0.233	0.005	83.	336.	-321.3	0.2720	0.72	0.30	2.60	304.0	15.0	287.2	2.0	0	0.00	94.	1004.	10	NAD-SFC	NoSubs
7	10	13	286	9	18.3	0.284	0.481	0.005	217.	362.	-111.6	0.2720	0.72	0.23	2.60	306.0	15.0	287.8	2.0	0	0.00	91.	1004.	10	NAD-SFC	NoSubs
7	10	13	286	10	119.8	0.223	1.186	0.005	499.	254.	-8.3	0.2720	0.72	0.21	1.50	328.0	15.0	289.2	2.0	0	0.00	80.	1004.	5	NAD-SFC	NoSubs
7	10	13	286	11	150.1	0.169	1.431	0.005	699.	167.	-2.9	0.2160	0.72	0.20	1.00	286.0	15.0	290.6	2.0	0	0.00	73.	1004.	3	NAD-SFC	NoSubs
7	10	13	286	12	161.2	-9.000	-9.000	-9.000	925.	-999.	-99999.0	0.2235	0.72	0.20	0.00	0.0	15.0	291.8	2.0	0	0.00	68.	1003.	3	NAD-SFC	NoSubs

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 7 10 13 286 13   157.5 -9.000 -9.000 -9.000 1115. -999. -99999.0 0.2235  0.72  0.20  0.00   0.0  15.0 292.8  2.0   0  0.00  62. 1002.   3 NAD-SFC NoSubs
 7 10 13 286 14   138.6 -9.000 -9.000 -9.000 1262. -999. -99999.0 0.2235  0.72  0.20  0.00   0.0  15.0 293.6  2.0   0  0.00  59. 1002.   2 NAD-SFC NoSubs
 7 10 13 286 15   105.7 -9.000 -9.000 -9.000 1353. -999. -99999.0 0.2235  0.72  0.21  0.00   0.0  15.0 294.1  2.0   0  0.00  57. 1001.   2 NAD-SFC NoSubs
 7 10 13 286 16    59.7  0.161  1.322  0.006 1384.  155.    -6.3  0.2940  0.72  0.26  1.00  26.0  15.0 294.2  2.0   0  0.00  56. 1001.   2 NAD-SFC NoSubs
 7 10 13 286 17     6.3  0.166  0.626  0.006 1387.  162.   -64.7  0.2470  0.72  0.40  1.50  44.0  15.0 294.1  2.0   0  0.00  59. 1000.   2 NAD-SFC NoSubs
 7 10 13 286 18    -3.8  0.099 -9.000 -9.000 -999.   76.    22.9  0.2470  0.72  1.00  1.00  36.0  15.0 293.4  2.0   0  0.00  62. 1001.   2 NAD-SFC NoSubs
 7 10 13 286 19    -1.6  0.082 -9.000 -9.000 -999.   57.    31.7  0.2470  0.72  1.00  0.50  56.0  15.0 292.2  2.0   0  0.00  67. 1001.   2 NAD-SFC NoSubs
 7 10 13 286 20    -1.5  0.080 -9.000 -9.000 -999.   54.    31.2  0.1970  0.72  1.00  0.50 125.0  15.0 291.1  2.0   0  0.00  73. 1001.   2 NAD-SFC NoSubs
 7 10 13 286 21    -6.7  0.123 -9.000 -9.000 -999.  104.    25.0  0.1810  0.72  1.00  1.50 151.0  15.0 290.0  2.0   0  0.00  79. 1002.   2 NAD-SFC NoSubs
 7 10 13 286 22    -7.0  0.126 -9.000 -9.000 -999.  107.    25.6  0.1970  0.72  1.00  1.50 144.0  15.0 289.2  2.0   0  0.00  82. 1002.   2 NAD-SFC NoSubs
 7 10 13 286 23    -6.9  0.126 -9.000 -9.000 -999.  107.    25.9  0.1970  0.72  1.00  1.50 120.0  15.0 288.5  2.0   0  0.00  85. 1002.   3 NAD-SFC NoSubs
 7 10 13 286 24    -3.6  0.096 -9.000 -9.000 -999.   72.    22.4  0.2130  0.72  1.00  1.00 104.0  15.0 287.8  2.0   0  0.00  89. 1002.   3 NAD-SFC NoSubs
 7 10 14 287  1    -1.5  0.081 -9.000 -9.000 -999.   56.    31.5  0.2130  0.72  1.00  0.50  95.0  15.0 287.1  2.0   0  0.00  92. 1003.   2 NAD-SFC NoSubs
 7 10 14 287  2  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 286.5  2.0   0  0.00  94. 1003.   2 NAD-SFC NoSubs
 7 10 14 287  3  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 286.0  2.0   0  0.00  95. 1003.   2 NAD-SFC NoSubs
 7 10 14 287  4    -1.5  0.080 -9.000 -9.000 -999.   54.    31.2  0.1750  0.72  1.00  0.50 264.0  15.0 285.6  2.0   0  0.00  96. 1003.   2 NAD-SFC NoSubs
 7 10 14 287  5    -7.3  0.129 -9.000 -9.000 -999.  111.    26.2  0.2160  0.72  1.00  1.50 271.0  15.0 285.2  2.0   0  0.00  96. 1003.   2 NAD-SFC NoSubs
 7 10 14 287  6   -22.6  0.230 -9.000 -9.000 -999.  265.    48.3  0.2160  0.72  1.00  2.60 299.0  15.0 284.9  2.0   0  0.00  98. 1004.   2 NAD-SFC NoSubs
 7 10 14 287  7   -20.2  0.248 -9.000 -9.000 -999.  296.    67.6  0.2720  0.72  0.55  2.60 315.0  15.0 284.5  2.0   0  0.00 100. 1004.   2 NAD-SFC NoSubs
 7 10 14 287  8    32.0  0.344  0.427  0.007   87.  485.  -114.1  0.2930  0.72  0.30  3.10 330.0  15.0 285.6  2.0   0  0.00  93. 1004.   2 NAD-SFC NoSubs
 7 10 14 287  9    83.2  0.214  0.859  0.007  273.  248.   -10.6  0.2720  0.72  0.23  1.50 328.0  15.0 287.9  2.0   0  0.00  78. 1004.   2 NAD-SFC NoSubs
 7 10 14 287 10   123.1  0.173  1.183  0.007  482.  173.    -3.8  0.2720  0.72  0.21  1.00 324.0  15.0 290.2  2.0   0  0.00  66. 1004.   2 NAD-SFC NoSubs
 7 10 14 287 11   149.1  0.178  1.401  0.008  661.  180.    -3.4  0.2720  0.72  0.20  1.00 315.0  15.0 292.0  2.0   0  0.00  58. 1003.   2 NAD-SFC NoSubs
 7 10 14 287 12   160.5  0.120  1.521  0.008  785.  101.    -1.0  0.2930  0.72  0.20  0.50 332.0  15.0 293.8  2.0   0  0.00  50. 1002.   2 NAD-SFC NoSubs
 7 10 14 287 13   156.9  0.120  1.574  0.008  889.  100.    -1.0  0.2930  0.72  0.20  0.50 343.0  15.0 295.0  2.0   0  0.00  46. 1002.   2 NAD-SFC NoSubs
 7 10 14 287 14   138.3  0.179  1.555  0.008  973.  182.    -3.7  0.2940  0.72  0.20  1.00   5.0  15.0 295.9  2.0   0  0.00  43. 1001.   2 NAD-SFC NoSubs
 7 10 14 287 15   105.2  0.224  1.446  0.008 1027.  255.    -9.5  0.2940  0.72  0.22  1.50   6.0  15.0 296.2  2.0   0  0.00  42. 1000.   2 NAD-SFC NoSubs
 7 10 14 287 16    59.2  0.266  1.205  0.008 1056.  329.   -28.4  0.2940  0.72  0.26  2.10  20.0  15.0 296.2  2.0   0  0.00  44. 1000.   2 NAD-SFC NoSubs
 7 10 14 287 17     5.8  0.275  0.555  0.008 1058.  346.  -321.8  0.2940  0.72  0.41  2.60  22.0  15.0 295.8  2.0   0  0.00  50. 1000.   2 NAD-SFC NoSubs
 7 10 14 287 18   -16.5  0.200 -9.000 -9.000 -999.  217.    43.4  0.2940  0.72  1.00  2.10  29.0  15.0 294.6  2.0   0  0.00  54. 1000.   2 NAD-SFC NoSubs
 7 10 14 287 19    -3.8  0.099 -9.000 -9.000 -999.   80.    22.9  0.2470  0.72  1.00  1.00  52.0  15.0 293.2  2.0   0  0.00  58. 1000.   2 NAD-SFC NoSubs
 7 10 14 287 20    -1.5  0.080 -9.000 -9.000 -999.   54.    31.2  0.1950  0.72  1.00  0.50 214.0  15.0 291.8  2.0   0  0.00  64. 1001.   2 NAD-SFC NoSubs
 7 10 14 287 21   -37.6  0.353 -9.000 -9.000 -999.  503.   104.4  0.1750  0.72  1.00  4.10 264.0  15.0 290.0  2.0   0  0.00  71. 1001.   2 NAD-SFC NoSubs
 7 10 14 287 22   -34.9  0.325 -9.000 -9.000 -999.  445.    88.0  0.2160  0.72  1.00  3.60 279.0  15.0 288.1  2.0   0  0.00  84. 1002.   2 NAD-SFC NoSubs
 7 10 14 287 23   -29.9  0.278 -9.000 -9.000 -999.  353.    64.1  0.2160  0.72  1.00  3.10 281.0  15.0 287.2  2.0   0  0.00  89. 1002.   2 NAD-SFC NoSubs
 7 10 14 287 24   -22.5  0.230 -9.000 -9.000 -999.  266.    48.5  0.2160  0.72  1.00  2.60 284.0  15.0 286.5  2.0   0  0.00  91. 1002.   2 NAD-SFC NoSubs
 7 10 15 288  1   -20.7  0.218 -9.000 -9.000 -999.  244.    44.8  0.1750  0.72  1.00  2.60 266.0  15.0 285.8  2.0   0  0.00  93. 1003.   2 NAD-SFC NoSubs
 7 10 15 288  2   -14.3  0.183 -9.000 -9.000 -999.  188.    38.3  0.2160  0.72  1.00  2.10 282.0  15.0 285.2  2.0   0  0.00  94. 1003.   3 NAD-SFC NoSubs
 7 10 15 288  3    -7.2  0.129 -9.000 -9.000 -999.  111.    26.5  0.2160  0.72  1.00  1.50 271.0  15.0 285.0  2.0   0  0.00  93. 1004.   3 NAD-SFC NoSubs
 7 10 15 288  4    -6.6  0.122 -9.000 -9.000 -999.  103.    24.8  0.1750  0.72  1.00  1.50 264.0  15.0 284.8  2.0   0  0.00  92. 1004.   3 NAD-SFC NoSubs
 7 10 15 288  5    -1.5  0.080 -9.000 -9.000 -999.   54.    31.2  0.1950  0.72  1.00  0.50 231.0  15.0 284.6  2.0   0  0.00  92. 1004.   3 NAD-SFC NoSubs
 7 10 15 288  6    -1.5  0.080 -9.000 -9.000 -999.   54.    31.1  0.1900  0.72  1.00  0.50 197.0  15.0 284.5  2.0   0  0.00  91. 1004.   3 NAD-SFC NoSubs
 7 10 15 288  7    -1.1  0.070 -9.000 -9.000 -999.   45.    28.2  0.1810  0.72  0.56  0.50 155.0  15.0 284.2  2.0   0  0.00  93. 1005.   3 NAD-SFC NoSubs
 7 10 15 288  8    32.4  0.089  0.503  0.009  141.   63.    -1.9  0.1950  0.72  0.31  0.50 211.0  15.0 285.2  2.0   0  0.00  87. 1005.   3 NAD-SFC NoSubs
 7 10 15 288  9    82.9 -9.000 -9.000 -9.000  334. -999. -99999.0 0.2235  0.72  0.23  0.00   0.0  15.0 287.2  2.0   0  0.00  77. 1004.   3 NAD-SFC NoSubs
 7 10 15 288 10   122.1 -9.000 -9.000 -9.000  474. -999. -99999.0 0.2235  0.72  0.21  0.00   0.0  15.0 288.8  2.0   0  0.00  70. 1004.   3 NAD-SFC NoSubs
 7 10 15 288 11   147.7 -9.000 -9.000 -9.000  588. -999. -99999.0 0.2235  0.72  0.20  0.00   0.0  15.0 290.4  2.0   0  0.00  65. 1004.   3 NAD-SFC NoSubs
 7 10 15 288 12   158.8 -9.000 -9.000 -9.000  702. -999. -99999.0 0.2235  0.72  0.20  0.00   0.0  15.0 291.8  2.0   0  0.00  61. 1003.   3 NAD-SFC NoSubs
 7 10 15 288 13   155.1 -9.000 -9.000 -9.000  817. -999. -99999.0 0.2235  0.72  0.20  0.00   0.0  15.0 293.1  2.0   0  0.00  56. 1002.   3 NAD-SFC NoSubs
 7 10 15 288 14   136.7 -9.000 -9.000 -9.000  907. -999. -99999.0 0.2235  0.72  0.20  0.00   0.0  15.0 294.1  2.0   0  0.00  51. 1001.   3 NAD-SFC NoSubs
 7 10 15 288 15   104.0  0.113  1.413  0.009  970.   91.    -1.2  0.2930  0.72  0.22  0.50 334.0  15.0 294.8  2.0   0  0.00  48. 1000.   3 NAD-SFC NoSubs
 7 10 15 288 16    58.4  0.161  1.179  0.009 1002.  155.    -6.3  0.2940  0.72  0.26  1.00   2.0  15.0 294.9  2.0   0  0.00  47. 1000.   3 NAD-SFC NoSubs
 7 10 15 288 17     5.9  0.172  0.550  0.009 1005.  171.   -76.6  0.2940  0.72  0.41  1.50  29.0  15.0 294.8  2.0   0  0.00  52.  999.   3 NAD-SFC NoSubs
 7 10 15 288 18   -16.0  0.200 -9.000 -9.000 -999.  215.    44.9  0.2930  0.72  1.00  2.10 349.0  15.0 293.8  2.0   0  0.00  56. 1000.   4 NAD-SFC NoSubs
 7 10 15 288 19   -37.0  0.373 -9.000 -9.000 -999.  547.   124.9  0.2160  0.72  1.00  4.10 294.0  15.0 291.8  2.0   0  0.00  63. 1000.   4 NAD-SFC NoSubs
 7 10 15 288 20   -35.5  0.353 -9.000 -9.000 -999.  504.   110.9  0.1750  0.72  1.00  4.10 258.0  15.0 288.8  2.0   0  0.00  81. 1001.   4 NAD-SFC NoSubs
 7 10 15 288 21   -31.1  0.308 -9.000 -9.000 -999.  412.    84.2  0.1750  0.72  1.00  3.60 250.0  15.0 287.5  2.0   0  0.00  87. 1001.   4 NAD-SFC NoSubs
 7 10 15 288 22   -25.4  0.264 -9.000 -9.000 -999.  326.    64.7  0.1750  0.72  1.00  3.10 252.0  15.0 287.0  2.0   0  0.00  88. 1001.   5 NAD-SFC NoSubs
 7 10 15 288 23   -12.2  0.174 -9.000 -9.000 -999.  178.    38.8  0.1750  0.72  1.00  2.10 263.0  15.0 286.8  2.0   0  0.00  89. 1001.   6 NAD-SFC NoSubs
 7 10 15 288 24    -6.1  0.122 -9.000 -9.000 -999.  103.    26.7  0.1750  0.72  1.00  1.50 266.0  15.0 286.5  2.0   0  0.00  91. 1001.   6 NAD-SFC NoSubs
 7 10 16 289  1    -5.3  0.131 -9.000 -9.000 -999.  113.    37.8  0.2160  0.72  1.00  1.50 273.0  15.0 286.8  2.0   0  0.25  91. 1001.  10 NAD-SFC NoSubs
 7 10 16 289  2   -12.9  0.235 -9.000 -9.000 -999.  273.    89.7  0.2160  0.72  1.00  2.60 283.0  15.0 286.9  2.0   0  0.51  92. 1001.  10 NAD-SFC NoSubs
 7 10 16 289  3   -16.5  0.301 -9.000 -9.000 -999.  396.   147.1  0.2720  0.72  1.00  3.10 303.0  15.0 287.1  2.0   0  0.51  94. 1000.  10 NAD-SFC NoSubs
 7 10 16 289  4   -19.3  0.351 -9.000 -9.000 -999.  500.   200.9  0.2720  0.72  1.00  3.60 304.0  15.0 287.2  2.0   0  0.76  96. 1000.  10 NAD-SFC NoSubs
 7 10 16 289  5   -19.3  0.351 -9.000 -9.000 -999.  500.   200.9  0.2720  0.72  1.00  3.60 307.0  15.0 287.2  2.0   0  0.51  96. 1000.  10 NAD-SFC NoSubs
 7 10 16 289  6   -22.1  0.402 -9.000 -9.000 -999.  612.   263.5  0.2720  0.72  1.00  4.10 310.0  15.0 287.2  2.0   0  0.51  96. 1001.  10 NAD-SFC NoSubs
 7 10 16 289  7   -21.4  0.403 -9.000 -9.000 -999.  613.   272.9  0.2720  0.72  0.57  4.10 300.0  15.0 287.1  2.0   0  0.25  94. 1002.   8 NAD-SFC NoSubs
 7 10 16 289  8     4.7  0.413  0.217  0.005   79.  637. -1356.1  0.2720  0.72  0.31  4.10 304.0  15.0 287.0  2.0   0  0.25  90. 1003.  10 NAD-SFC NoSubs
 7 10 16 289  9    75.3  0.540  0.973  0.005  437.  952.   -187.4  0.2720  0.72  0.23  5.10 308.0  15.0 287.8  2.0   0  0.00  76. 1003.   6 NAD-SFC NoSubs
 7 10 16 289 10   116.5  0.370  1.294  0.005  666.  566.    -39.0  0.2720  0.72  0.21  3.10 318.0  15.0 288.9  2.0   0  0.00  70. 1003.   5 NAD-SFC NoSubs
 7 10 16 289 11   144.9  0.285  1.491  0.005  820.  371.    -14.3  0.2720  0.72  0.20  2.10 319.0  15.0 290.1  2.0   0  0.00  65. 1003.   4 NAD-SFC NoSubs
 7 10 16 289 12   155.6  0.181  1.609  0.005  959.  191.     -3.4  0.2930  0.72  0.20  1.00 337.0  15.0 291.1  2.0   0  0.00  58. 1002.   4 NAD-SFC NoSubs
 7 10 16 289 13   151.7  0.181  1.666  0.005 1089.  184.     -3.5  0.2930  0.72  0.20  1.00 336.0  15.0 292.0  2.0   0  0.00  52. 1001.   4 NAD-SFC NoSubs
 7 10 16 289 14   134.8  0.178  1.652  0.005 1194.  181.     -3.7  0.2930  0.72  0.20  1.00 347.0  15.0 292.8  2.0   0  0.00  48. 1000.   3 NAD-SFC NoSubs
 7 10 16 289 15   101.9  0.281  1.535  0.005 1268.  357.    -19.3  0.2940  0.72  0.22  2.10   1.0  15.0 293.1  2.0   0  0.00  46. 1000.   3 NAD-SFC NoSubs
 7 10 16 289 16    56.3  0.311  1.273  0.005 1307.  416.    -47.7  0.2940  0.72  0.26  2.60   6.0  15.0 293.0  2.0   0  0.00  46.  999.   3 NAD-SFC NoSubs
 7 10 16 289 17     3.8  0.272  0.518  0.005 1308.  341.   -473.7  0.2940  0.72  0.42  2.60  29.0  15.0 292.4  2.0   0  0.00  56.  999.   3 NAD-SFC NoSubs
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 7 10 16 289 18   -34.8  0.337 -9.000 -9.000 -999.  470.     98.5  0.2470  0.72  1.00   3.60   33.0  15.0 291.4  2.0    0   0.00   59.  1000.     3 NAD-SFC NoSubs
 7 10 16 289 19    -7.5  0.133 -9.000 -9.000 -999.  163.     28.0  0.2470  0.72  1.00   1.50   30.0  15.0 290.5  2.0    0   0.00   62.  1000.     3 NAD-SFC NoSubs
 7 10 16 289 20   -19.9  0.219 -9.000 -9.000 -999.  245.     46.8  0.1750  0.72  1.00   2.60  254.0  15.0 289.2  2.0    0   0.00   66.  1001.     4 NAD-SFC NoSubs
 7 10 16 289 21   -40.2  0.398 -9.000 -9.000 -999.  603.    140.2  0.1750  0.72  1.00   4.60  258.0  15.0 287.2  2.0    0   0.00   78.  1002.     4 NAD-SFC NoSubs
 7 10 16 289 22   -42.6  0.420 -9.000 -9.000 -999.  653.    155.6  0.2160  0.72  1.00   4.60  273.0  15.0 286.2  2.0    0   0.00   87.  1002.     4 NAD-SFC NoSubs
 7 10 16 289 23   -37.9  0.373 -9.000 -9.000 -999.  548.    122.2  0.2160  0.72  1.00   4.10  272.0  15.0 285.6  2.0    0   0.00   90.  1003.     4 NAD-SFC NoSubs
 7 10 16 289 24   -26.8  0.264 -9.000 -9.000 -999.  332.     61.0  0.1750  0.72  1.00   3.10  265.0  15.0 285.2  2.0    0   0.00   92.  1003.     4 NAD-SFC NoSubs
 7 10 17 290  1    -6.8  0.125 -9.000 -9.000 -999.  121.     26.1  0.1950  0.72  1.00   1.50  219.0  15.0 285.4  2.0    0   0.00   91.  1003.     4 NAD-SFC NoSubs
 7 10 17 290  2   -13.2  0.179 -9.000 -9.000 -999.  182.     38.9  0.1970  0.72  1.00   2.10  149.0  15.0 285.5  2.0    0   0.00   91.  1003.     5 NAD-SFC NoSubs
 7 10 17 290  3   -15.5  0.281 -9.000 -9.000 -999.  358.    127.8  0.2130  0.72  1.00   3.10  118.0  15.0 285.5  2.0    0   0.00   91.  1003.    10 NAD-SFC NoSubs
 7 10 17 290  4   -15.5  0.281 -9.000 -9.000 -999.  358.    127.9  0.2130  0.72  1.00   3.10  106.0  15.0 285.8  2.0    0   0.00   92.  1003.    10 NAD-SFC NoSubs
 7 10 17 290  5   -12.9  0.234 -9.000 -9.000 -999.  272.     88.6  0.2130  0.72  1.00   2.60  119.0  15.0 285.8  2.0    0   0.25   92.  1003.    10 NAD-SFC NoSubs
 7 10 17 290  6   -12.7  0.229 -9.000 -9.000 -999.  264.     85.1  0.1970  0.72  1.00   2.60  128.0  15.0 285.8  2.0    0   0.00   92.  1003.    10 NAD-SFC NoSubs
 7 10 17 290  7    -4.6  0.125 -9.000 -9.000 -999.  111.     38.0  0.1810  0.72  0.57   1.50  160.0  15.0 285.8  2.0    0   0.00   92.  1004.    10 NAD-SFC NoSubs
 7 10 17 290  8     4.1  0.153  0.174  0.005   46.  143.    -77.7  0.1900  0.72  0.31   1.50  197.0  15.0 285.9  2.0    0   0.00   92.  1004.    10 NAD-SFC NoSubs
 7 10 17 290  9    74.0  0.193  0.953  0.005  419.  203.     -8.7  0.1750  0.72  0.23   1.50  264.0  15.0 286.6  2.0    0   0.00   88.  1004.     6 NAD-SFC NoSubs
 7 10 17 290 10   114.9  0.163  1.268  0.005  637.  158.     -3.4  0.2160  0.72  0.21   1.00  281.0  15.0 287.2  2.0    0   0.00   84.  1005.     5 NAD-SFC NoSubs
 7 10 17 290 11   143.4 -9.000 -9.000 -9.000  857. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0 289.0  2.0    0   0.00   75.  1005.     4 NAD-SFC NoSubs
 7 10 17 290 12   154.0  0.120  1.643  0.005 1033.  100.     -1.0  0.2940  0.72  0.20   0.50   23.0  15.0 290.2  2.0    0   0.00   68.  1004.     4 NAD-SFC NoSubs
 7 10 17 290 13   150.0  0.224  1.694  0.005 1162.  255.     -6.7  0.2470  0.72  0.20   1.50   32.0  15.0 290.8  2.0    0   0.00   64.  1004.     4 NAD-SFC NoSubs
 7 10 17 290 14   131.8  0.229  1.669  0.005 1265.  264.     -8.2  0.2940  0.72  0.20   1.50   12.0  15.0 291.5  2.0    0   0.00   61.  1004.     4 NAD-SFC NoSubs
 7 10 17 290 15   100.0  0.326  1.551  0.005 1338.  446.    -30.9  0.2930  0.72  0.22   2.60  347.0  15.0 291.8  2.0    0   0.00   59.  1004.     3 NAD-SFC NoSubs
 7 10 17 290 16    52.9  0.355  1.267  0.005 1377.  507.    -75.6  0.2930  0.72  0.27   3.10  347.0  15.0 291.2  2.0    0   0.00   57.  1004.     2 NAD-SFC NoSubs
 7 10 17 290 17     2.2  0.269  0.436  0.005 1379.  338.   -807.3  0.2930  0.72  0.42   2.60  354.0  15.0 291.1  2.0    0   0.00   63.  1004.     3 NAD-SFC NoSubs
 7 10 17 290 18   -36.9  0.354 -9.000 -9.000 -999.  506.    108.1  0.2930  0.72  1.00   3.60  337.0  15.0 290.0  2.0    0   0.00   66.  1004.     3 NAD-SFC NoSubs
 7 10 17 290 19   -37.1  0.354 -9.000 -9.000 -999.  506.    107.6  0.2930  0.72  1.00   3.60  342.0  15.0 288.6  2.0    0   0.00   73.  1005.     3 NAD-SFC NoSubs
 7 10 17 290 20   -37.2  0.354 -9.000 -9.000 -999.  506.    107.2  0.2930  0.72  1.00   3.60  340.0  15.0 287.8  2.0    0   0.00   78.  1005.     3 NAD-SFC NoSubs
 7 10 17 290 21   -31.9  0.303 -9.000 -9.000 -999.  402.     78.2  0.2930  0.72  1.00   3.10  338.0  15.0 287.1  2.0    0   0.00   81.  1006.     3 NAD-SFC NoSubs
 7 10 17 290 22    -8.3  0.140 -9.000 -9.000 -999.  148.     29.6  0.2930  0.72  1.00   1.50  349.0  15.0 286.6  2.0    0   0.00   83.  1006.     3 NAD-SFC NoSubs
 7 10 17 290 23    -1.7  0.084 -9.000 -9.000 -999.   60.     31.9  0.2930  0.72  1.00   0.50  337.0  15.0 286.1  2.0    0   0.00   85.  1006.     3 NAD-SFC NoSubs
 7 10 17 290 24  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0 285.4  2.0    0   0.00   88.  1006.     3 NAD-SFC NoSubs
 7 10 18 291  1  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0 284.8  2.0    0   0.00   91.  1006.     3 NAD-SFC NoSubs
 7 10 18 291  2  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0 284.4  2.0    0   0.00   93.  1007.     3 NAD-SFC NoSubs
 7 10 18 291  3    -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.2160  0.72  1.00   0.50  284.0  15.0 284.0  2.0    0   0.00   95.  1007.     3 NAD-SFC NoSubs
 7 10 18 291  4    -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.2160  0.72  1.00   0.50  291.0  15.0 283.8  2.0    0   0.00   95.  1007.     3 NAD-SFC NoSubs
 7 10 18 291  5    -3.6  0.097 -9.000 -9.000 -999.   72.     22.4  0.2160  0.72  1.00   1.00  288.0  15.0 283.4  2.0    0   0.00   96.  1007.     3 NAD-SFC NoSubs
 7 10 18 291  6    -8.1  0.137 -9.000 -9.000 -999.  122.     28.3  0.2720  0.72  1.00   1.50  303.0  15.0 283.1  2.0    0   0.00   96.  1007.     2 NAD-SFC NoSubs
 7 10 18 291  7    -3.5  0.097 -9.000 -9.000 -999.   73.     23.5  0.2720  0.72  0.58   1.00  302.0  15.0 282.8  2.0    0   0.00   97.  1008.     2 NAD-SFC NoSubs
 7 10 18 291  8    27.6  0.095  0.435  0.005  107.   70.     -2.8  0.2930  0.72  0.31   0.50  335.0  15.0 283.8  2.0    0   0.00   90.  1008.     2 NAD-SFC NoSubs
 7 10 18 291  9    78.2 -9.000 -9.000 -9.000  414. -999. -99999.0  0.2235  0.72  0.23   0.00    0.0  15.0 285.8  2.0    0   0.00   80.  1009.     2 NAD-SFC NoSubs
 7 10 18 291 10   117.6 -9.000 -9.000 -9.000  661. -999. -99999.0  0.2235  0.72  0.21   0.00    0.0  15.0 287.5  2.0    0   0.00   71.  1009.     2 NAD-SFC NoSubs
 7 10 18 291 11   143.2 -9.000 -9.000 -9.000  808. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0 288.9  2.0    0   0.00   64.  1008.     2 NAD-SFC NoSubs
 7 10 18 291 12   154.3 -9.000 -9.000 -9.000  943. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0 290.6  2.0    0   0.00   55.  1007.     2 NAD-SFC NoSubs
 7 10 18 291 13   150.4 -9.000 -9.000 -9.000 1016. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0 291.9  2.0    0   0.00   49.  1007.     2 NAD-SFC NoSubs
 7 10 18 291 14   131.6  0.115  1.574  0.011 1066.   93.     -1.0  0.2720  0.72  0.20   0.50  300.0  15.0 292.8  2.0    0   0.00   46.  1006.     2 NAD-SFC NoSubs
 7 10 18 291 15    98.4  0.112  1.445  0.011 1101.   90.     -1.3  0.2930  0.72  0.22   0.50  344.0  15.0 293.2  2.0    0   0.00   44.  1006.     2 NAD-SFC NoSubs
 7 10 18 291 16    52.4  0.207  1.178  0.011 1119.  226.    -15.2  0.2930  0.72  0.27   1.50  346.0  15.0 293.4  2.0    0   0.00   43.  1006.     2 NAD-SFC NoSubs
 7 10 18 291 17    -0.0  0.156 -9.000 -9.000 -999.  149.   8888.0  0.2930  0.72  0.43   1.50  358.0  15.0 293.1  2.0    0   0.00   47.  1006.     2 NAD-SFC NoSubs
 7 10 18 291 18    -8.3  0.140 -9.000 -9.000 -999.  126.     29.6  0.2940  0.72  1.00   1.50    7.0  15.0 292.2  2.0    0   0.00   51.  1006.     2 NAD-SFC NoSubs
 7 10 18 291 19    -3.6  0.096 -9.000 -9.000 -999.   72.     22.3  0.2090  0.72  1.00   1.00   65.0  15.0 291.0  2.0    0   0.00   56.  1006.     2 NAD-SFC NoSubs
 7 10 18 291 20    -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.2130  0.72  1.00   0.50  111.0  15.0 289.8  2.0    0   0.00   62.  1005.     2 NAD-SFC NoSubs
 7 10 18 291 21    -3.5  0.096 -9.000 -9.000 -999.   71.     22.1  0.1970  0.72  1.00   1.00  135.0  15.0 288.8  2.0    0   0.00   67.  1005.     2 NAD-SFC NoSubs
 7 10 18 291 22    -3.6  0.097 -9.000 -9.000 -999.   72.     22.4  0.2130  0.72  1.00   1.00  116.0  15.0 287.9  2.0    0   0.00   72.  1006.     2 NAD-SFC NoSubs
 7 10 18 291 23    -7.2  0.128 -9.000 -9.000 -999.  110.     26.2  0.2130  0.72  1.00   1.50  116.0  15.0 287.2  2.0    0   0.00   75.  1006.     2 NAD-SFC NoSubs
 7 10 18 291 24    -3.6  0.096 -9.000 -9.000 -999.   71.     22.1  0.1970  0.72  1.00   1.00  130.0  15.0 286.8  2.0    0   0.00   77.  1005.     2 NAD-SFC NoSubs
 7 10 19 292  1    -3.6  0.096 -9.000 -9.000 -999.   71.     22.1  0.1970  0.72  1.00   1.00  130.0  15.0 286.2  2.0    0   0.00   79.  1005.     2 NAD-SFC NoSubs
 7 10 19 292  2    -7.3  0.128 -9.000 -9.000 -999.  110.     26.1  0.2130  0.72  1.00   1.50  114.0  15.0 285.8  2.0    0   0.00   81.  1005.     2 NAD-SFC NoSubs
 7 10 19 292  3    -7.3  0.128 -9.000 -9.000 -999.  110.     26.1  0.2130  0.72  1.00   1.50  108.0  15.0 285.2  2.0    0   0.00   82.  1005.     2 NAD-SFC NoSubs
 7 10 19 292  4    -7.3  0.128 -9.000 -9.000 -999.  110.     26.1  0.2130  0.72  1.00   1.50  118.0  15.0 284.9  2.0    0   0.00   84.  1005.     2 NAD-SFC NoSubs
 7 10 19 292  5    -7.0  0.126 -9.000 -9.000 -999.  107.     25.5  0.1970  0.72  1.00   1.50  134.0  15.0 284.6  2.0    0   0.00   84.  1004.     2 NAD-SFC NoSubs
 7 10 19 292  6    -3.6  0.096 -9.000 -9.000 -999.   71.     22.1  0.1970  0.72  1.00   1.00  128.0  15.0 284.4  2.0    0   0.00   84.  1004.     2 NAD-SFC NoSubs
 7 10 19 292  7    -3.1  0.092 -9.000 -9.000 -999.   66.     22.0  0.1970  0.72  0.59   1.00  124.0  15.0 284.2  2.0    0   0.00   84.  1004.     2 NAD-SFC NoSubs
 7 10 19 292  8    26.9  0.137  0.372  0.010   68.  122.     -8.6  0.2130  0.72  0.32   1.00  106.0  15.0 284.9  2.0    0   0.00   81.  1004.     2 NAD-SFC NoSubs
 7 10 19 292  9    77.9  0.098  0.782  0.009  219.   74.     -1.1  0.1810  0.72  0.23   0.50  154.0  15.0 288.8  2.0    0   0.00   61.  1004.     2 NAD-SFC NoSubs
 7 10 19 292 10   117.6 -9.000 -9.000 -9.000  404. -999. -99999.0  0.2235  0.72  0.21   0.00    0.0  15.0 290.9  2.0    0   0.00   54.  1004.     2 NAD-SFC NoSubs
 7 10 19 292 11   143.5 -9.000 -9.000 -9.000  544. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0 293.0  2.0    0   0.00   49.  1003.     2 NAD-SFC NoSubs
 7 10 19 292 12   154.6 -9.000 -9.000 -9.000  662. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0 294.4  2.0    0   0.00   45.  1002.     2 NAD-SFC NoSubs
 7 10 19 292 13   150.7 -9.000 -9.000 -9.000  763. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0 295.6  2.0    0   0.00   44.  1001.     2 NAD-SFC NoSubs
 7 10 19 292 14   131.9 -9.000 -9.000 -9.000  842. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0 296.6  2.0    0   0.00   42.  1001.     2 NAD-SFC NoSubs
 7 10 19 292 15    98.7  0.113  1.354  0.008  897.   91.     -1.3  0.2940  0.72  0.22   0.50   28.0  15.0 297.1  2.0    0   0.00   41.  1000.     2 NAD-SFC NoSubs
 7 10 19 292 16    54.0  0.153  1.119  0.008  925.  144.     -5.9  0.2470  0.72  0.27   1.00   38.0  15.0 297.2  2.0    0   0.00   41.  1000.     3 NAD-SFC NoSubs
 7 10 19 292 17     2.4  0.068  0.395  0.008  926.   46.    -11.8  0.2470  0.72  0.44   0.50   38.0  15.0 296.9  2.0    0   0.00   46.   999.     3 NAD-SFC NoSubs
 7 10 19 292 18     0.5 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0 295.5  2.0    0   0.00   52.  1000.     3 NAD-SFC NoSubs
 7 10 19 292 19    -1.4  0.078 -9.000 -9.000 -999.   52.     30.6  0.1750  0.72  1.00   0.50  252.0  15.0 294.0  2.0    0   0.00   58.  1000.     3 NAD-SFC NoSubs
 7 10 19 292 20    -3.3  0.093 -9.000 -9.000 -999.   68.     21.6  0.1750  0.72  1.00   1.00  254.0  15.0 292.9  2.0    0   0.00   63.  1000.     3 NAD-SFC NoSubs
 7 10 19 292 21   -12.7  0.173 -9.000 -9.000 -999.  173.     36.7  0.1750  0.72  1.00   2.10  259.0  15.0 291.9  2.0    0   0.00   71.  1001.     4 NAD-SFC NoSubs
 7 10 19 292 22   -27.8  0.278 -9.000 -9.000 -999.  353.     69.4  0.2160  0.72  1.00   3.10  283.0  15.0 290.8  2.0    0   0.00   82.  1001.     4 NAD-SFC NoSubs
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7	10	19	292	23	-50.0	0.499	-9.000	-9.000	-999.	845.	221.7	0.2720	0.72	1.00	5.10	322.0	15.0	289.4	2.0	0	0.00	91.	1002.	4	NAD-SFC NoSubs
7	10	19	292	24	-34.9	0.347	-9.000	-9.000	-999.	509.	107.1	0.2720	0.72	1.00	3.60	326.0	15.0	288.6	2.0	0	0.00	98.	1003.	4	NAD-SFC NoSubs
7	10	20	293	1	-22.7	0.253	-9.000	-9.000	-999.	311.	63.7	0.2930	0.72	1.00	2.60	336.0	15.0	288.2	2.0	0	0.00	100.	1003.	6	NAD-SFC NoSubs
7	10	20	293	2	-11.2	0.205	-9.000	-9.000	-999.	223.	68.4	0.2930	0.72	1.00	2.10	340.0	15.0	288.2	2.0	0	0.00	100.	1003.	10	NAD-SFC NoSubs
7	10	20	293	3	-10.9	0.200	-9.000	-9.000	-999.	215.	65.5	0.2720	0.72	1.00	2.10	300.0	15.0	288.6	2.0	0	0.51	100.	1003.	10	NAD-SFC NoSubs
7	10	20	293	4	-19.2	0.351	-9.000	-9.000	-999.	500.	202.3	0.2720	0.72	1.00	3.60	306.0	15.0	289.1	2.0	0	0.51	100.	1003.	10	NAD-SFC NoSubs
7	10	20	293	5	-46.4	0.562	-9.000	-9.000	-999.	1012.	343.2	0.2720	0.72	1.00	5.70	324.0	15.0	289.1	2.0	0	0.25	97.	1004.	7	NAD-SFC NoSubs
7	10	20	293	6	-64.0	0.764	-9.000	-9.000	-999.	1599.	623.2	0.2720	0.72	1.00	7.70	320.0	15.0	287.8	2.0	0	0.00	96.	1005.	3	NAD-SFC NoSubs
7	10	20	293	7	-51.5	0.561	-9.000	-9.000	-999.	1056.	307.9	0.2720	0.72	0.59	5.70	325.0	15.0	286.6	2.0	0	0.00	97.	1005.	2	NAD-SFC NoSubs
7	10	20	293	8	26.5	0.839	0.517	0.008	187.	1843.	-2004.5	0.2930	0.72	0.32	8.20	330.0	15.0	287.2	2.0	0	0.00	87.	1006.	2	NAD-SFC NoSubs
7	10	20	293	9	76.6	0.849	1.016	0.008	492.	1878.	-717.4	0.2930	0.72	0.24	8.20	334.0	15.0	288.2	2.0	0	0.00	72.	1006.	2	NAD-SFC NoSubs
7	10	20	293	10	115.8	0.793	1.297	0.007	677.	1705.	-387.4	0.2720	0.72	0.21	7.70	327.0	15.0	289.0	2.0	0	0.00	64.	1007.	2	NAD-SFC NoSubs
7	10	20	293	11	141.1	0.717	1.469	0.005	809.	1468.	-234.2	0.2930	0.72	0.20	6.70	334.0	15.0	289.8	2.0	0	0.00	58.	1007.	2	NAD-SFC NoSubs
7	10	20	293	12	151.8	0.706	1.578	0.005	930.	1426.	-208.3	0.2720	0.72	0.20	6.70	326.0	15.0	290.4	2.0	0	0.00	55.	1006.	2	NAD-SFC NoSubs
7	10	20	293	13	147.4	0.718	1.626	0.005	1048.	1459.	-225.2	0.2930	0.72	0.20	6.70	339.0	15.0	290.5	2.0	0	0.00	56.	1006.	2	NAD-SFC NoSubs
7	10	20	293	14	128.8	0.667	1.603	0.005	1149.	1313.	-206.6	0.2930	0.72	0.20	6.20	344.0	15.0	290.8	2.0	0	0.00	53.	1006.	3	NAD-SFC NoSubs
7	10	20	293	15	95.8	0.707	1.482	0.005	1219.	1426.	-331.3	0.2930	0.72	0.22	6.70	334.0	15.0	291.1	2.0	0	0.00	47.	1005.	3	NAD-SFC NoSubs
7	10	20	293	16	50.1	0.599	1.206	0.005	1254.	1128.	-384.1	0.2930	0.72	0.27	5.70	332.0	15.0	291.0	2.0	0	0.00	49.	1005.	3	NAD-SFC NoSubs
7	10	20	293	17	-3.6	0.415	-9.000	-9.000	-999.	676.	1774.7	0.2720	0.72	0.44	4.10	323.0	15.0	290.0	2.0	0	0.00	57.	1005.	3	NAD-SFC NoSubs
7	10	20	293	18	-42.7	0.397	-9.000	-9.000	-999.	601.	131.4	0.2720	0.72	1.00	4.10	311.0	15.0	288.5	2.0	0	0.00	61.	1006.	2	NAD-SFC NoSubs
7	10	20	293	19	-37.4	0.347	-9.000	-9.000	-999.	491.	99.8	0.2720	0.72	1.00	3.60	308.0	15.0	287.5	2.0	0	0.00	63.	1006.	2	NAD-SFC NoSubs
7	10	20	293	20	-32.1	0.296	-9.000	-9.000	-999.	388.	72.8	0.2720	0.72	1.00	3.10	306.0	15.0	286.8	2.0	0	0.00	64.	1007.	2	NAD-SFC NoSubs
7	10	20	293	21	-3.4	0.094	-9.000	-9.000	-999.	125.	21.7	0.1750	0.72	1.00	1.00	266.0	15.0	286.2	2.0	0	0.00	64.	1007.	2	NAD-SFC NoSubs
7	10	20	293	22	-6.9	0.125	-9.000	-9.000	-999.	106.	25.2	0.1900	0.72	1.00	1.50	199.0	15.0	286.2	2.0	0	0.00	60.	1008.	2	NAD-SFC NoSubs
7	10	20	293	23	-39.3	0.360	-9.000	-9.000	-999.	519.	106.9	0.1900	0.72	1.00	4.10	185.0	15.0	285.2	2.0	0	0.00	64.	1008.	2	NAD-SFC NoSubs
7	10	20	293	24	-34.4	0.314	-9.000	-9.000	-999.	424.	81.3	0.1900	0.72	1.00	3.60	197.0	15.0	284.5	2.0	0	0.00	67.	1008.	2	NAD-SFC NoSubs
7	10	21	294	1	-29.6	0.270	-9.000	-9.000	-999.	338.	60.0	0.1950	0.72	1.00	3.10	226.0	15.0	284.1	2.0	0	0.00	67.	1008.	2	NAD-SFC NoSubs
7	10	21	294	2	-20.8	0.218	-9.000	-9.000	-999.	245.	44.6	0.1750	0.72	1.00	2.60	258.0	15.0	283.5	2.0	0	0.00	69.	1008.	2	NAD-SFC NoSubs
7	10	21	294	3	-14.6	0.183	-9.000	-9.000	-999.	188.	37.5	0.2160	0.72	1.00	2.10	270.0	15.0	282.8	2.0	0	0.00	72.	1008.	2	NAD-SFC NoSubs
7	10	21	294	4	-13.4	0.173	-9.000	-9.000	-999.	172.	34.7	0.1750	0.72	1.00	2.10	259.0	15.0	282.2	2.0	0	0.00	74.	1008.	2	NAD-SFC NoSubs
7	10	21	294	5	-29.0	0.263	-9.000	-9.000	-999.	324.	56.3	0.1750	0.72	1.00	3.10	251.0	15.0	281.8	2.0	0	0.00	75.	1009.	2	NAD-SFC NoSubs
7	10	21	294	6	-39.0	0.353	-9.000	-9.000	-999.	502.	101.1	0.1750	0.72	1.00	4.10	253.0	15.0	281.4	2.0	0	0.00	75.	1009.	2	NAD-SFC NoSubs
7	10	21	294	7	-34.1	0.354	-9.000	-9.000	-999.	505.	116.6	0.1750	0.72	0.60	4.10	265.0	15.0	281.1	2.0	0	0.00	73.	1010.	2	NAD-SFC NoSubs
7	10	21	294	8	24.3	0.405	0.393	0.010	90.	618.	-246.4	0.2160	0.72	0.32	4.10	271.0	15.0	282.4	2.0	0	0.00	66.	1011.	2	NAD-SFC NoSubs
7	10	21	294	9	74.5	0.426	0.811	0.009	258.	666.	-93.3	0.2160	0.72	0.24	4.10	282.0	15.0	284.6	2.0	0	0.00	54.	1011.	2	NAD-SFC NoSubs
7	10	21	294	10	114.0	0.394	1.072	0.010	390.	595.	-48.5	0.2160	0.72	0.21	3.60	281.0	15.0	286.9	2.0	0	0.00	43.	1011.	2	NAD-SFC NoSubs
7	10	21	294	11	139.5	0.315	1.256	0.011	512.	427.	-20.1	0.2160	0.72	0.20	2.60	279.0	15.0	288.8	2.0	0	0.00	38.	1011.	2	NAD-SFC NoSubs
7	10	21	294	12	150.5	0.273	1.371	0.010	618.	342.	-12.1	0.2160	0.72	0.20	2.10	286.0	15.0	290.2	2.0	0	0.00	35.	1010.	2	NAD-SFC NoSubs
7	10	21	294	13	146.4	0.272	1.419	0.009	704.	340.	-12.3	0.2160	0.72	0.20	2.10	296.0	15.0	291.5	2.0	0	0.00	33.	1010.	2	NAD-SFC NoSubs
7	10	21	294	14	127.5	0.224	1.397	0.009	770.	256.	-8.0	0.2720	0.72	0.20	1.50	325.0	15.0	292.5	2.0	0	0.00	32.	1010.	2	NAD-SFC NoSubs
7	10	21	294	15	94.2	0.273	1.288	0.008	816.	343.	-19.5	0.2720	0.72	0.22	2.10	326.0	15.0	293.0	2.0	0	0.00	31.	1009.	2	NAD-SFC NoSubs
7	10	21	294	16	48.2	0.307	1.039	0.008	837.	408.	-54.0	0.2930	0.72	0.28	2.60	347.0	15.0	293.0	2.0	0	0.00	33.	1010.	2	NAD-SFC NoSubs
7	10	21	294	17	-6.1	0.315	-9.000	-9.000	-999.	423.	459.4	0.2940	0.72	0.45	3.10	6.0	15.0	292.1	2.0	0	0.00	41.	1010.	2	NAD-SFC NoSubs
7	10	21	294	18	-36.2	0.337	-9.000	-9.000	-999.	470.	95.7	0.2470	0.72	1.00	3.60	36.0	15.0	290.9	2.0	0	0.00	44.	1011.	2	NAD-SFC NoSubs
7	10	21	294	19	-14.3	0.181	-9.000	-9.000	-999.	203.	37.6	0.2090	0.72	1.00	2.10	75.0	15.0	289.8	2.0	0	0.00	49.	1011.	2	NAD-SFC NoSubs
7	10	21	294	20	-6.9	0.125	-9.000	-9.000	-999.	107.	25.3	0.1900	0.72	1.00	1.50	192.0	15.0	288.4	2.0	0	0.00	55.	1012.	2	NAD-SFC NoSubs
7	10	21	294	21	-21.7	0.224	-9.000	-9.000	-999.	255.	46.8	0.1950	0.72	1.00	2.60	212.0	15.0	287.4	2.0	0	0.00	55.	1012.	2	NAD-SFC NoSubs
7	10	21	294	22	-21.6	0.223	-9.000	-9.000	-999.	252.	46.2	0.1900	0.72	1.00	2.60	190.0	15.0	286.6	2.0	0	0.00	52.	1013.	2	NAD-SFC NoSubs
7	10	21	294	23	-29.0	0.265	-9.000	-9.000	-999.	328.	58.2	0.1810	0.72	1.00	3.10	158.0	15.0	286.0	2.0	0	0.00	51.	1013.	2	NAD-SFC NoSubs
7	10	21	294	24	-34.0	0.311	-9.000	-9.000	-999.	415.	79.6	0.1810	0.72	1.00	3.60	163.0	15.0	285.5	2.0	0	0.00	51.	1013.	2	NAD-SFC NoSubs
7	10	22	295	1	-34.0	0.311	-9.000	-9.000	-999.	415.	79.5	0.1810	0.72	1.00	3.60	163.0	15.0	285.1	2.0	0	0.00	52.	1013.	2	NAD-SFC NoSubs
7	10	22	295	2	-34.1	0.310	-9.000	-9.000	-999.	415.	79.3	0.1810	0.72	1.00	3.60	152.0	15.0	284.6	2.0	0	0.00	53.	1013.	2	NAD-SFC NoSubs
7	10	22	295	3	-40.0	0.363	-9.000	-9.000	-999.	526.	108.5	0.1970	0.72	1.00	4.10	132.0	15.0	284.2	2.0	0	0.00	54.	1013.	2	NAD-SFC NoSubs
7	10	22	295	4	-40.0	0.363	-9.000	-9.000	-999.	526.	108.4	0.1970	0.72	1.00	4.10	121.0	15.0	284.0	2.0	0	0.00	55.	1014.	2	NAD-SFC NoSubs
7	10	22	295	5	-40.9	0.371	-9.000	-9.000	-999.	542.	112.8	0.2130	0.72	1.00	4.10	114.0	15.0	283.8	2.0	0	0.00	56.	1014.	2	NAD-SFC NoSubs
7	10	22	295	6	-40.9	0.371	-9.000	-9.000	-999.	542.	112.8	0.2130	0.72	1.00	4.10	97.0	15.0	283.6	2.0	0	0.00	57.	1015.	2	NAD-SFC NoSubs
7	10	22	295	7	-31.7	0.325	-9.000	-9.000	-999.	445.	97.9	0.2130	0.72	0.61	3.60	96.0	15.0	283.5	2.0	0	0.00	57.	1016.	2	NAD-SFC NoSubs
7	10	22	295	8	23.6	0.316	0.331	0.008	55.	426.	-120.7	0.2130	0.72	0.32	3.10	99.0	15.0	284.2	2.0	0	0.00	55.	1016.	2	NAD-SFC NoSubs
7	10	22	295	9	74.2	0.296	0.721	0.008	183.	387.	-31.7	0.2130	0.72	0.24	2.60	101.0	15.0	287.8	2.0	0	0.00	42.	1016.	2	NAD-SFC NoSubs
7	10	22	295	10	113.8	0.264	1.045	0.008	363.	327.	-14.7	0.2130	0.72	0.21	2.10	92.0	15.0	290.2	2.0	0	0.00	35.	1016.	2	NAD-SFC NoSubs
7	10	22	295	11	139.6	0.214	1.269	0.009	531.	239.	-6.4	0.2090	0.72	0.20	1.50	70.0	15.0	292.4	2.0	0	0.00	31.	1015.	2	NAD-SFC NoSubs
7	10	22	295	12	150.9	0.224	1.408	0.009	670.	254.	-6.7	0.2470	0.72	0.20	1.50	49.0	15.0	294.5	2.0	0	0.00	27.	1014.	2	NAD-SFC NoSubs
7	10	22	295	13	147.0	0.280	1.461	0.009	768.	355.	-13.4	0.2470	0.72	0.20	2.10	31.0	15.0	295.9	2.0	0	0.00	26.	1013.	2	NAD-SFC NoSubs
7	10	22	295	14	128.0	0.321	1.441	0.009	844.	435.	-23.2	0.2470	0.72	0.20	2.60	35.0	15.0	296.6	2.0	0	0.00	26.	1012.	2	NAD-SFC NoSubs
7	10	22	295	15	94.4	0.400	1.327	0.009	895.	607.	-61.2	0.2470	0.72	0.22	3.60	35.0	15.0	296.4	2.0	0	0.00	29.	1012.	2	NAD-SFC NoSubs
7	10	22	295	16	48.4	0.429	1.073	0.009	921.	674.	-147.1	0.2470	0.72	0.28	4.10	33.0	15.0	296.4	2.0	0	0.00	36.	1011.	2	NAD-SFC NoSubs
7	10	22	295	17	-8.1	0.400	-9.000	-9.000	-999.	607.	712.6	0.2470	0.72	0.46	4.10	32.0	15.0	294.5	2.0	0	0.00	44.	1011.	2	NAD-SFC NoSubs
7	10	22	295	18	-41.1	0.386	-9.000	-9.000	-999.	577.	126.5	0.2470	0.72	1.00	4.10	54.0	15.0	293.2	2.0	0	0.00	44.	1012.	2	NAD-SFC NoSubs
7	10	22	295	19	-7.2	0.128	-9.000	-9.000	-999.	204.	26.3	0.2090	0.72	1.00	1.50	84.0	15.0	292.6	2.0	0	0.00	43.	1012.	2	NAD-SFC NoSubs
7	10	22	295	20	-3.4	0.094	-9.000	-9.000	-999.	74.	21.8	0.1810	0.72	1.00	1.00	174.0	15.0	291.2	2.0	0	0.00	48.	1013.	2	NAD-SFC NoSubs
7	10	22	295	21	-6.9	0.125	-9.000	-9.000	-999.	106.	25.4	0.1900	0.72	1.00	1.50	181.0	15.0	290.2	2.0	0	0.00	51.	1013.	2	NAD-SFC NoSubs
7	10	22	295	22	-13.5	0.174	-9.000	-9.000	-999.	175.	35.6	0.1810	0.72	1.00	2.10	165.0	15.0	289.2	2.0	0	0.00	52.	1013.	2	NAD-SFC NoSubs
7	10	22	295	23	-14.0	0.178	-9.000	-9.000	-999.	181.	36.7	0.1970	0.72	1.00	2.10	147.0	15.0	288.8	2.0	0	0.00	53.	1013.	2	NAD-SFC NoSubs
7	10	22	295	24	-14.0	0.178	-9.000	-9.000	-999.	181.	36.7	0.1970	0.72	1.00	2.10	137.0	15.0	288.5	2.0	0	0.00	53.	1013.	2	NAD-SFC NoSubs
7	10	23	296	1	-7.1	0.126	-9.000	-9.000	-999.	108.	25.6	0.1970	0.72	1.00	1.50	134.0	15.0	288.2	2.0	0	0.00	54.	1013.	2	NAD-SFC NoSubs
7	10	23	296	2	-7.3	0.128	-9.000	-9.000	-999.	110.	26.2	0.2130	0.72	1.00	1.50	115.0	15.0	287.9	2.0	0	0.00	55.	1013.	2	NAD-SFC NoSubs
7	10	23	296	3	-7.2	0.128	-9.000	-9.000	-999.	110.	26.1	0.2090	0.72	1.00	1.50	78.0	15.0	287.6	2.0	0	0.00	55.	1013.	2	NAD-SFC NoSubs

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 7 10 23 296  4   -7.8  0.133 -9.000 -9.000 -999.  117.     27.6  0.2470  0.72  1.00  1.50  57.0  15.0 287.2  2.0   0  0.00  56. 1013.   2 NAD-SFC NoSubs
 7 10 23 296  5   -7.8  0.133 -9.000 -9.000 -999.  117.     27.5  0.2470  0.72  1.00  1.50  55.0  15.0 286.9  2.0   0  0.00  57. 1014.   2 NAD-SFC NoSubs
 7 10 23 296  6   -3.9  0.099 -9.000 -9.000 -999.   75.     22.9  0.2470  0.72  1.00  1.00  43.0  15.0 286.5  2.0   0  0.00  59. 1014.   2 NAD-SFC NoSubs
 7 10 23 296  7   -1.4  0.078 -9.000 -9.000 -999.   52.     30.4  0.2090  0.72  0.62  0.50  62.0  15.0 286.2  2.0   0  0.00  59. 1014.   2 NAD-SFC NoSubs
 7 10 23 296  8   23.2  0.086  0.346  0.013   64.   61.     -2.5  0.2130  0.72  0.33  0.50  93.0  15.0 286.4  2.0   0  0.00  59. 1014.   2 NAD-SFC NoSubs
 7 10 23 296  9   73.6  0.108  0.732  0.009  192.   85.     -1.6  0.2940  0.72  0.24  0.50   2.0  15.0 289.4  2.0   0  0.00  50. 1013.   2 NAD-SFC NoSubs
 7 10 23 296 10  113.2  0.114  1.028  0.008  346.   93.     -1.2  0.2930  0.72  0.21  0.50 336.0  15.0 291.9  2.0   0  0.00  42. 1013.   2 NAD-SFC NoSubs
 7 10 23 296 11  139.0 -9.000 -9.000 -9.000  508. -999. -99999.0  0.2235  0.72  0.20  0.00   0.0  15.0 294.0  2.0   0  0.00  38. 1012.   2 NAD-SFC NoSubs
 7 10 23 296 12  150.1  0.119  1.395  0.009  652.   99.     -1.0  0.2930  0.72  0.20  0.50 346.0  15.0 295.8  2.0   0  0.00  36. 1011.   2 NAD-SFC NoSubs
 7 10 23 296 13  146.4 -9.000 -9.000 -9.000  757. -999. -99999.0  0.2235  0.72  0.20  0.00   0.0  15.0 297.4  2.0   0  0.00  32. 1010.   2 NAD-SFC NoSubs
 7 10 23 296 14  127.4  0.228  1.435  0.009  836.  262.     -8.4  0.2940  0.72  0.21  1.50  10.0  15.0 298.1  2.0   0  0.00  31. 1009.   2 NAD-SFC NoSubs
 7 10 23 296 15   93.9  0.278  1.324  0.009  890.  352.    -20.6  0.2940  0.72  0.22  2.10  15.0  15.0 298.2  2.0   0  0.00  32. 1009.   2 NAD-SFC NoSubs
 7 10 23 296 16   47.7  0.307  1.067  0.009  915.  408.    -54.5  0.2940  0.72  0.28  2.60  21.0  15.0 297.8  2.0   0  0.00  39. 1008.   2 NAD-SFC NoSubs
 7 10 23 296 17   -7.2  0.349 -9.000 -9.000 -999.  495.    527.6  0.2470  0.72  0.46  3.60  38.0  15.0 296.8  2.0   0  0.00  43. 1008.   2 NAD-SFC NoSubs
 7 10 23 296 18  -35.5  0.337 -9.000 -9.000 -999.  471.     97.3  0.2470  0.72  1.00  3.60  51.0  15.0 295.8  2.0   0  0.00  44. 1008.   2 NAD-SFC NoSubs
 7 10 23 296 19  -15.2  0.190 -9.000 -9.000 -999.  214.     40.4  0.2470  0.72  1.00  2.10  58.0  15.0 294.6  2.0   0  0.00  47. 1008.   2 NAD-SFC NoSubs
 7 10 23 296 20   -1.6  0.082 -9.000 -9.000 -999.   66.     31.6  0.2470  0.72  1.00  0.50  47.0  15.0 293.2  2.0   0  0.00  52. 1009.   2 NAD-SFC NoSubs
 7 10 23 296 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 292.2  2.0   0  0.00  58. 1009.   2 NAD-SFC NoSubs
 7 10 23 296 22   -1.7  0.084 -9.000 -9.000 -999.   59.     32.0  0.2940  0.72  1.00  0.50  26.0  15.0 291.4  2.0   0  0.00  61. 1009.   2 NAD-SFC NoSubs
 7 10 23 296 23   -1.6  0.082 -9.000 -9.000 -999.   57.     31.7  0.2470  0.72  1.00  0.50  34.0  15.0 290.8  2.0   0  0.00  63. 1009.   2 NAD-SFC NoSubs
 7 10 23 296 24   -1.7  0.084 -9.000 -9.000 -999.   59.     32.1  0.2940  0.72  1.00  0.50  24.0  15.0 290.2  2.0   0  0.00  64. 1009.   2 NAD-SFC NoSubs
 7 10 24 297  1   -1.6  0.082 -9.000 -9.000 -999.   57.     31.8  0.2470  0.72  1.00  0.50  31.0  15.0 289.8  2.0   0  0.00  65. 1009.   2 NAD-SFC NoSubs
 7 10 24 297  2   -1.7  0.084 -9.000 -9.000 -999.   59.     32.1  0.2940  0.72  1.00  0.50  28.0  15.0 289.5  2.0   0  0.00  65. 1009.   2 NAD-SFC NoSubs
 7 10 24 297  3   -1.6  0.083 -9.000 -9.000 -999.   57.     31.8  0.2470  0.72  1.00  0.50  30.0  15.0 289.1  2.0   0  0.00  66. 1009.   2 NAD-SFC NoSubs
 7 10 24 297  4   -1.6  0.083 -9.000 -9.000 -999.   57.     31.8  0.2470  0.72  1.00  0.50  32.0  15.0 288.8  2.0   0  0.00  67. 1009.   2 NAD-SFC NoSubs
 7 10 24 297  5   -1.6  0.083 -9.000 -9.000 -999.   57.     31.8  0.2470  0.72  1.00  0.50  35.0  15.0 288.4  2.0   0  0.00  68. 1009.   2 NAD-SFC NoSubs
 7 10 24 297  6   -1.6  0.083 -9.000 -9.000 -999.   57.     31.8  0.2470  0.72  1.00  0.50  30.0  15.0 288.1  2.0   0  0.00  69. 1009.   2 NAD-SFC NoSubs
 7 10 24 297  7   -1.5  0.079 -9.000 -9.000 -999.   54.     30.8  0.2470  0.72  0.63  0.50  43.0  15.0 287.8  2.0   0  0.00  70. 1009.   2 NAD-SFC NoSubs
 7 10 24 297  8   22.6  0.089  0.327  0.015   56.   64.     -2.8  0.2470  0.72  0.33  0.50  32.0  15.0 287.9  2.0   0  0.00  70. 1009.   2 NAD-SFC NoSubs
 7 10 24 297  9   73.1  0.108  0.688  0.011  160.   85.     -1.6  0.2930  0.72  0.24  0.50 349.0  15.0 291.2  2.0   0  0.00  57. 1009.   2 NAD-SFC NoSubs
 7 10 24 297 10  112.7  0.174  0.984  0.008  304.  174.     -4.2  0.2930  0.72  0.21  1.00 331.0  15.0 293.5  2.0   0  0.00  50. 1008.   2 NAD-SFC NoSubs
 7 10 24 297 11  138.5  0.118  1.206  0.006  455.   98.     -1.1  0.2930  0.72  0.20  0.50 330.0  15.0 295.6  2.0   0  0.00  47. 1007.   2 NAD-SFC NoSubs
 7 10 24 297 12  149.7  0.119  1.365  0.005  610.   99.     -1.0  0.2930  0.72  0.20  0.50 330.0  15.0 297.5  2.0   0  0.00  43. 1006.   2 NAD-SFC NoSubs
 7 10 24 297 13  146.0  0.119  1.468  0.005  777.   98.     -1.0  0.2930  0.72  0.20  0.50 338.0  15.0 299.1  2.0   0  0.00  40. 1005.   2 NAD-SFC NoSubs
 7 10 24 297 14  127.2  0.177  1.483  0.005  920.  178.     -3.9  0.2930  0.72  0.21  1.00 351.0  15.0 300.2  2.0   0  0.00  38. 1004.   2 NAD-SFC NoSubs
 7 10 24 297 15   94.0  0.221  1.387  0.005 1018.  249.    -10.3  0.2930  0.72  0.22  1.50 356.0  15.0 300.8  2.0   0  0.00  37. 1004.   2 NAD-SFC NoSubs
 7 10 24 297 16   48.0 -9.000 -9.000 -9.000 1069. -999. -99999.0  0.2235  0.72  0.28  0.00   0.0  15.0 300.6  2.0   0  0.00  42. 1003.   2 NAD-SFC NoSubs
 7 10 24 297 17   -4.9  0.262 -9.000 -9.000 -999.  322.    331.6  0.2940  0.72  0.47  2.60   7.0  15.0 299.8  2.0   0  0.00  47. 1003.   2 NAD-SFC NoSubs
 7 10 24 297 18  -16.4  0.200 -9.000 -9.000 -999.  216.     43.7  0.2940  0.72  1.00  2.10  24.0  15.0 298.2  2.0   0  0.00  53. 1003.   2 NAD-SFC NoSubs
 7 10 24 297 19   -1.6  0.083 -9.000 -9.000 -999.   68.     31.8  0.2940  0.72  1.00  0.50  23.0  15.0 296.8  2.0   0  0.00  59. 1003.   2 NAD-SFC NoSubs
 7 10 24 297 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 295.2  2.0   0  0.00  65. 1003.   2 NAD-SFC NoSubs
 7 10 24 297 21   -1.4  0.079 -9.000 -9.000 -999.   53.     30.9  0.1810  0.72  1.00  0.50 155.0  15.0 294.8  2.0   0  0.00  66. 1003.   2 NAD-SFC NoSubs
 7 10 24 297 22   -1.4  0.079 -9.000 -9.000 -999.   54.     31.0  0.1900  0.72  1.00  0.50 181.0  15.0 294.4  2.0   0  0.00  64. 1003.   2 NAD-SFC NoSubs
 7 10 24 297 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 293.8  2.0   0  0.00  64. 1003.   2 NAD-SFC NoSubs
 7 10 24 297 24   -1.7  0.084 -9.000 -9.000 -999.   58.     32.0  0.2940  0.72  1.00  0.50  24.0  15.0 292.8  2.0   0  0.00  67. 1003.   2 NAD-SFC NoSubs
 7 10 25 298  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 291.8  2.0   0  0.00  70. 1003.   2 NAD-SFC NoSubs
 7 10 25 298  2  -16.6  0.200 -9.000 -9.000 -999.  214.     43.0  0.2930  0.72  1.00  2.10 347.0  15.0 291.0  2.0   0  0.00  73. 1003.   2 NAD-SFC NoSubs
 7 10 25 298  3  -16.6  0.200 -9.000 -9.000 -999.  214.     43.0  0.2930  0.72  1.00  2.10 343.0  15.0 290.4  2.0   0  0.00  76. 1003.   2 NAD-SFC NoSubs
 7 10 25 298  4  -16.6  0.200 -9.000 -9.000 -999.  214.     42.9  0.2930  0.72  1.00  2.10 332.0  15.0 289.9  2.0   0  0.00  78. 1002.   2 NAD-SFC NoSubs
 7 10 25 298  5  -16.6  0.200 -9.000 -9.000 -999.  214.     42.9  0.2930  0.72  1.00  2.10 335.0  15.0 289.5  2.0   0  0.00  80. 1002.   2 NAD-SFC NoSubs
 7 10 25 298  6  -16.6  0.200 -9.000 -9.000 -999.  214.     42.8  0.2930  0.72  1.00  2.10 334.0  15.0 289.0  2.0   0  0.00  82. 1003.   2 NAD-SFC NoSubs
 7 10 25 298  7  -15.4  0.196 -9.000 -9.000 -999.  208.     43.8  0.2720  0.72  0.64  2.10 323.0  15.0 288.6  2.0   0  0.00  84. 1003.   2 NAD-SFC NoSubs
 7 10 25 298  8   21.8  0.241  0.323  0.009   55.  284.    -57.6  0.2720  0.72  0.33  2.10 323.0  15.0 288.8  2.0   0  0.00  84. 1003.   2 NAD-SFC NoSubs
 7 10 25 298  9   72.0  0.317  0.673  0.006  152.  428.    -39.6  0.2930  0.72  0.24  2.60 335.0  15.0 291.2  2.0   0  0.00  73. 1003.   2 NAD-SFC NoSubs
 7 10 25 298 10  111.3  0.221  0.958  0.009  282.  254.     -8.7  0.2720  0.72  0.21  1.50 309.0  15.0 293.0  2.0   0  0.00  68. 1003.   2 NAD-SFC NoSubs
 7 10 25 298 11  137.0  0.116  1.158  0.007  405.  101.     -1.0  0.2720  0.72  0.20  0.50 301.0  15.0 294.9  2.0   0  0.00  62. 1002.   2 NAD-SFC NoSubs
 7 10 25 298 12  148.2 -9.000 -9.000 -9.000  563. -999. -99999.0  0.2235  0.72  0.20  0.00   0.0  15.0 296.9  2.0   0  0.00  53. 1001.   2 NAD-SFC NoSubs
 7 10 25 298 13  144.2  0.117  1.416  0.005  703.   96.     -1.0  0.2720  0.72  0.20  0.50 318.0  15.0 298.1  2.0   0  0.00  48. 1000.   2 NAD-SFC NoSubs
 7 10 25 298 14  125.2  0.174  1.440  0.005  850.  174.     -3.7  0.2720  0.72  0.21  1.00 325.0  15.0 298.9  2.0   0  0.00  46. 1000.   2 NAD-SFC NoSubs
 7 10 25 298 15   91.9  0.220  1.345  0.005  945.  248.    -10.4  0.2930  0.72  0.23  1.50 335.0  15.0 299.2  2.0   0  0.00  45.  999.   2 NAD-SFC NoSubs
 7 10 25 298 16   45.9  0.260  1.084  0.005  987.  318.    -34.1  0.2930  0.72  0.29  2.10 345.0  15.0 299.2  2.0   0  0.00  49.  999.   2 NAD-SFC NoSubs
 7 10 25 298 17   -6.9  0.260 -9.000 -9.000 -999.  318.    227.0  0.2930  0.72  0.48  2.60 336.0  15.0 298.6  2.0   0  0.00  53.  998.   2 NAD-SFC NoSubs
 7 10 25 298 18  -16.3  0.200 -9.000 -9.000 -999.  216.     43.5  0.2930  0.72  1.00  2.10 341.0  15.0 297.2  2.0   0  0.00  58.  999.   2 NAD-SFC NoSubs
 7 10 25 298 19   -3.6  0.096 -9.000 -9.000 -999.   78.     22.4  0.2160  0.72  1.00  1.00 298.0  15.0 295.9  2.0   0  0.00  64.  999.   2 NAD-SFC NoSubs
 7 10 25 298 20   -3.6  0.096 -9.000 -9.000 -999.   72.     22.4  0.2160  0.72  1.00  1.00 289.0  15.0 294.8  2.0   0  0.00  70.  999.   2 NAD-SFC NoSubs
 7 10 25 298 21   -3.6  0.097 -9.000 -9.000 -999.   72.     22.4  0.2160  0.72  1.00  1.00 296.0  15.0 293.9  2.0   0  0.00  73.  999.   2 NAD-SFC NoSubs
 7 10 25 298 22  -15.9  0.195 -9.000 -9.000 -999.  207.     41.9  0.2720  0.72  1.00  2.10 315.0  15.0 293.1  2.0   0  0.00  76. 1000.   2 NAD-SFC NoSubs
 7 10 25 298 23  -31.3  0.296 -9.000 -9.000 -999.  387.     74.2  0.2720  0.72  1.00  3.10 328.0  15.0 292.1  2.0   0  0.00  81. 1000.   2 NAD-SFC NoSubs
 7 10 25 298 24  -32.1  0.303 -9.000 -9.000 -999.  400.     77.2  0.2930  0.72  1.00  3.10 337.0  15.0 291.0  2.0   0  0.00  86. 1000.   2 NAD-SFC NoSubs
 7 10 26 299  1  -32.2  0.303 -9.000 -9.000 -999.  400.     77.0  0.2930  0.72  1.00  3.10 339.0  15.0 290.0  2.0   0  0.00  89. 1000.   2 NAD-SFC NoSubs
 7 10 26 299  2  -25.8  0.251 -9.000 -9.000 -999.  304.     54.9  0.2930  0.72  1.00  2.60 339.0  15.0 289.4  2.0   0  0.00  91. 1000.   2 NAD-SFC NoSubs
 7 10 26 299  3  -16.6  0.200 -9.000 -9.000 -999.  215.     42.8  0.2930  0.72  1.00  2.10 336.0  15.0 288.9  2.0   0  0.00  92. 1001.   2 NAD-SFC NoSubs
 7 10 26 299  4   -8.3  0.140 -9.000 -9.000 -999.  126.     29.4  0.2930  0.72  1.00  1.50 337.0  15.0 288.4  2.0   0  0.00  93. 1001.   2 NAD-SFC NoSubs
 7 10 26 299  5   -8.3  0.140 -9.000 -9.000 -999.  125.     29.3  0.2930  0.72  1.00  1.50 340.0  15.0 288.0  2.0   0  0.00  95. 1001.   2 NAD-SFC NoSubs
 7 10 26 299  6   -4.1  0.102 -9.000 -9.000 -999.   79.     23.6  0.2930  0.72  1.00  1.00 349.0  15.0 287.6  2.0   0  0.00  96. 1002.   2 NAD-SFC NoSubs
 7 10 26 299  7   -1.6  0.082 -9.000 -9.000 -999.   56.     31.4  0.2930  0.72  0.64  0.50 356.0  15.0 287.2  2.0   0  0.00  97. 1002.   2 NAD-SFC NoSubs
 7 10 26 299  8   20.4  0.189  0.405  0.010  116.  197.    -29.5  0.2930  0.72  0.34  1.50 350.0  15.0 287.5  2.0   0  0.00  93. 1003.   2 NAD-SFC NoSubs
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 7 10 26 299  9   70.1  0.164  0.741  0.010  208.  160.     -5.7  0.2930  0.72  0.24  1.00  347.0  15.0  289.0  2.0  0  0.00  84.  1003.  2 NAD-SFC NoSubs
 7 10 26 299 10  109.3 -9.000 -9.000 -9.000  329. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  290.9  2.0  0  0.00  75.  1003.  2 NAD-SFC NoSubs
 7 10 26 299 11  134.8 -9.000 -9.000 -9.000  481. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  292.6  2.0  0  0.00  67.  1003.  2 NAD-SFC NoSubs
 7 10 26 299 12  145.5  0.111  1.381  0.010  647.   89.     -1.0  0.2160  0.72  0.20  0.50  289.0  15.0  293.8  2.0  0  0.00  63.  1002.  2 NAD-SFC NoSubs
 7 10 26 299 13  141.3  0.176  1.428  0.010  737.  178.     -3.5  0.2720  0.72  0.20  1.00  300.0  15.0  294.6  2.0  0  0.00  60.  1001.  2 NAD-SFC NoSubs
 7 10 26 299 14  122.2  0.173  1.401  0.010  804.  173.     -3.8  0.2720  0.72  0.21  1.00  325.0  15.0  295.2  2.0  0  0.00  58.  1001.  2 NAD-SFC NoSubs
 7 10 26 299 15   88.7  0.220  1.282  0.010  849.  247.    -10.6  0.2930  0.72  0.23  1.50  332.0  15.0  295.4  2.0  0  0.00  58.  1001.  2 NAD-SFC NoSubs
 7 10 26 299 16   42.8  0.304  1.014  0.010  870.  403.    -58.9  0.2930  0.72  0.29  2.60  349.0  15.0  295.2  2.0  0  0.00  63.  1001.  2 NAD-SFC NoSubs
 7 10 26 299 17  -12.2  0.310 -9.000 -9.000 -999.  414.    218.0  0.2940  0.72  0.48  3.10   12.0  15.0  294.5  2.0  0  0.00  65.  1001.  2 NAD-SFC NoSubs
 7 10 26 299 18  -25.7  0.252 -9.000 -9.000 -999.  305.     55.5  0.2940  0.72  1.00  2.60   23.0  15.0  293.8  2.0  0  0.00  68.  1002.  2 NAD-SFC NoSubs
 7 10 26 299 19   -8.3  0.140 -9.000 -9.000 -999.  132.     29.6  0.2940  0.72  1.00  1.50   17.0  15.0  293.2  2.0  0  0.00  71.  1003.  2 NAD-SFC NoSubs
 7 10 26 299 20   -4.0  0.102 -9.000 -9.000 -999.   78.     23.6  0.2930  0.72  1.00  1.00  340.0  15.0  292.8  2.0  0  0.00  74.  1003.  2 NAD-SFC NoSubs
 7 10 26 299 21   -7.2  0.129 -9.000 -9.000 -999.  111.     26.5  0.2160  0.72  1.00  1.50  299.0  15.0  292.4  2.0  0  0.00  75.  1004.  2 NAD-SFC NoSubs
 7 10 26 299 22  -31.5  0.296 -9.000 -9.000 -999.  387.     74.2  0.2720  0.72  1.00  3.10  305.0  15.0  292.0  2.0  0  0.00  77.  1005.  2 NAD-SFC NoSubs
 7 10 26 299 23  -36.9  0.347 -9.000 -9.000 -999.  490.    101.2  0.2720  0.72  1.00  3.60  312.0  15.0  291.4  2.0  0  0.00  79.  1006.  2 NAD-SFC NoSubs
 7 10 26 299 24  -37.0  0.347 -9.000 -9.000 -999.  490.    101.1  0.2720  0.72  1.00  3.60  315.0  15.0  290.9  2.0  0  0.00  80.  1006.  2 NAD-SFC NoSubs
 7 10 27 300  1  -31.6  0.296 -9.000 -9.000 -999.  389.     73.8  0.2720  0.72  1.00  3.10  319.0  15.0  290.8  2.0  0  0.00  79.  1006.  2 NAD-SFC NoSubs
 7 10 27 300  2  -32.4  0.303 -9.000 -9.000 -999.  400.     77.1  0.2930  0.72  1.00  3.10  339.0  15.0  290.6  2.0  0  0.00  78.  1006.  2 NAD-SFC NoSubs
 7 10 27 300  3  -32.4  0.303 -9.000 -9.000 -999.  400.     77.1  0.2930  0.72  1.00  3.10  348.0  15.0  290.5  2.0  0  0.00  79.  1007.  2 NAD-SFC NoSubs
 7 10 27 300  4  -26.0  0.251 -9.000 -9.000 -999.  304.     55.0  0.2930  0.72  1.00  2.60  347.0  15.0  290.2  2.0  0  0.00  80.  1007.  2 NAD-SFC NoSubs
 7 10 27 300  5  -16.7  0.200 -9.000 -9.000 -999.  215.     42.9  0.2930  0.72  1.00  2.10  354.0  15.0  290.2  2.0  0  0.00  83.  1007.  2 NAD-SFC NoSubs
 7 10 27 300  6  -25.0  0.246 -9.000 -9.000 -999.  293.     53.4  0.2720  0.72  1.00  2.60  318.0  15.0  290.0  2.0  0  0.00  84.  1007.  2 NAD-SFC NoSubs
 7 10 27 300  7  -29.8  0.297 -9.000 -9.000 -999.  388.     78.8  0.2720  0.72  0.65  3.10  325.0  15.0  289.8  2.0  0  0.00  85.  1008.  2 NAD-SFC NoSubs
 7 10 27 300  8   20.1  0.331  0.402  0.008  116.  457.   -162.3  0.2720  0.72  0.34  3.10  322.0  15.0  289.8  2.0  0  0.00  85.  1009.  2 NAD-SFC NoSubs
 7 10 27 300  9   69.3  0.356  0.799  0.008  265.  509.    -58.4  0.2720  0.72  0.24  3.10  328.0  15.0  290.2  2.0  0  0.00  80.  1009.  2 NAD-SFC NoSubs
 7 10 27 300 10  108.2  0.420  1.084  0.008  424.  652.    -61.6  0.2930  0.72  0.21  3.60  344.0  15.0  291.2  2.0  0  0.00  74.  1010.  2 NAD-SFC NoSubs
 7 10 27 300 11  133.3  0.380  1.292  0.008  583.  564.    -37.1  0.2930  0.72  0.20  3.10  344.0  15.0  291.9  2.0  0  0.00  70.  1010.  2 NAD-SFC NoSubs
 7 10 27 300 12  143.7  0.422  1.412  0.008  706.  657.    -47.0  0.2720  0.72  0.20  3.60  317.0  15.0  292.2  2.0  0  0.00  68.  1010.  2 NAD-SFC NoSubs
 7 10 27 300 13  139.6  0.421  1.457  0.008  799.  655.    -48.1  0.2720  0.72  0.20  3.60  325.0  15.0  292.4  2.0  0  0.00  69.  1010.  3 NAD-SFC NoSubs
 7 10 27 300 14  120.4  0.416  1.428  0.007  871.  644.    -53.8  0.2720  0.72  0.21  3.60  325.0  15.0  292.4  2.0  0  0.00  70.  1009.  3 NAD-SFC NoSubs
 7 10 27 300 15   87.1  0.406  1.304  0.007  918.  622.    -69.4  0.2720  0.72  0.23  3.60  324.0  15.0  292.2  2.0  0  0.00  72.  1010.  3 NAD-SFC NoSubs
 7 10 27 300 16   40.9  0.481  1.020  0.007  936.  801.   -246.1  0.2720  0.72  0.29  4.60  305.0  15.0  289.8  2.0  0  0.00  81.  1010.  3 NAD-SFC NoSubs
 7 10 27 300 17  -13.5  0.302 -9.000 -9.000 -999.  425.    183.4  0.2720  0.72  0.49  3.10  301.0  15.0  289.0  2.0  0  0.00  85.  1011.  3 NAD-SFC NoSubs
 7 10 27 300 18  -36.5  0.347 -9.000 -9.000 -999.  490.    103.0  0.2720  0.72  1.00  3.60  305.0  15.0  288.6  2.0  0  0.00  87.  1011.  3 NAD-SFC NoSubs
 7 10 27 300 19  -14.4  0.183 -9.000 -9.000 -999.  208.     38.5  0.2160  0.72  1.00  2.10  299.0  15.0  288.5  2.0  0  0.00  89.  1012.  3 NAD-SFC NoSubs
 7 10 27 300 20   -4.0  0.101 -9.000 -9.000 -999.   81.     23.3  0.2720  0.72  1.00  1.00  309.0  15.0  288.4  2.0  0  0.00  89.  1013.  2 NAD-SFC NoSubs
 7 10 27 300 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  288.2  2.0  0  0.00  90.  1013.  2 NAD-SFC NoSubs
 7 10 27 300 22   -7.3  0.128 -9.000 -9.000 -999.  110.     26.2  0.2130  0.72  1.00  1.50  109.0  15.0  288.0  2.0  0  0.00  92.  1013.  2 NAD-SFC NoSubs
 7 10 27 300 23  -14.0  0.178 -9.000 -9.000 -999.  181.     36.6  0.1970  0.72  1.00  2.10  133.0  15.0  287.5  2.0  0  0.00  95.  1013.  2 NAD-SFC NoSubs
 7 10 27 300 24  -14.0  0.178 -9.000 -9.000 -999.  181.     36.5  0.1970  0.72  1.00  2.10  140.0  15.0  287.0  2.0  0  0.00  97.  1013.  2 NAD-SFC NoSubs
 7 10 28 301  1  -14.0  0.178 -9.000 -9.000 -999.  181.     36.5  0.1970  0.72  1.00  2.10  145.0  15.0  286.1  2.0  0  0.00  99.  1013.  2 NAD-SFC NoSubs
 7 10 28 301  2   -7.3  0.128 -9.000 -9.000 -999.  111.     26.1  0.2130  0.72  1.00  1.50  109.0  15.0  285.2  2.0  0  0.00 100.  1013.  2 NAD-SFC NoSubs
 7 10 28 301  3   -3.7  0.097 -9.000 -9.000 -999.   72.     22.3  0.2090  0.72  1.00  1.00   69.0  15.0  284.6  2.0  0  0.00 100.  1013.  2 NAD-SFC NoSubs
 7 10 28 301  4   -3.8  0.099 -9.000 -9.000 -999.   75.     22.9  0.2470  0.72  1.00  1.00   50.0  15.0  284.6  2.0  0  0.00 100.  1013.  3 NAD-SFC NoSubs
 7 10 28 301  5   -4.1  0.102 -9.000 -9.000 -999.   78.     23.7  0.2940  0.72  1.00  1.00   20.0  15.0  284.9  2.0  0  0.00 100.  1013.  3 NAD-SFC NoSubs
 7 10 28 301  6   -4.1  0.102 -9.000 -9.000 -999.   78.     23.7  0.2940  0.72  1.00  1.00   15.0  15.0  285.2  2.0  0  0.00 100.  1014.  3 NAD-SFC NoSubs
 7 10 28 301  7   -3.9  0.101 -9.000 -9.000 -999.   77.     23.7  0.2930  0.72  0.66  1.00  346.0  15.0  285.2  2.0  0  0.00 100.  1014.  3 NAD-SFC NoSubs
 7 10 28 301  8   19.3  0.141  0.323  0.015   63.  127.    -13.1  0.2930  0.72  0.34  1.00  345.0  15.0  285.2  2.0  0  0.00 100.  1014.  3 NAD-SFC NoSubs
 7 10 28 301  9   68.0  0.107  0.671  0.014  161.   84.     -1.6  0.2930  0.72  0.25  0.50  343.0  15.0  286.0  2.0  0  0.00  99.  1014.  3 NAD-SFC NoSubs
 7 10 28 301 10  106.6  0.112  0.938  0.012  280.   89.     -1.2  0.2720  0.72  0.21  0.50  307.0  15.0  287.4  2.0  0  0.00  91.  1014.  3 NAD-SFC NoSubs
 7 10 28 301 11  131.7  0.115  1.121  0.011  387.   93.     -1.0  0.2720  0.72  0.20  0.50  307.0  15.0  289.2  2.0  0  0.00  81.  1013.  3 NAD-SFC NoSubs
 7 10 28 301 12  142.4  0.116  1.251  0.010  497.   95.     -1.0  0.2720  0.72  0.20  0.50  328.0  15.0  290.9  2.0  0  0.00  72.  1012.  3 NAD-SFC NoSubs
 7 10 28 301 13  138.3  0.118  1.309  0.009  586.   97.     -1.1  0.2930  0.72  0.20  0.50  351.0  15.0  292.0  2.0  0  0.00  67.  1011.  3 NAD-SFC NoSubs
 7 10 28 301 14  119.3 -9.000 -9.000 -9.000  653. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  292.8  2.0  0  0.00  64.  1010.  3 NAD-SFC NoSubs
 7 10 28 301 15   86.3  0.168  1.194  0.008  710.  165.     -5.0  0.2940  0.72  0.23  1.00    6.0  15.0  293.2  2.0  0  0.00  63.  1009.  3 NAD-SFC NoSubs
 7 10 28 301 16   41.0  0.154  0.942  0.007  735.  145.     -8.0  0.2940  0.72  0.29  1.00    8.0  15.0  293.2  2.0  0  0.00  66.  1009.  3 NAD-SFC NoSubs
 7 10 28 301 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.50  0.00    0.0  15.0  292.8  2.0  0  0.00  69.  1008.  2 NAD-SFC NoSubs
 7 10 28 301 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  292.0  2.0  0  0.00  72.  1008.  2 NAD-SFC NoSubs
 7 10 28 301 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  291.4  2.0  0  0.00  76.  1008.  2 NAD-SFC NoSubs
 7 10 28 301 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  291.0  2.0  0  0.00  78.  1008.  2 NAD-SFC NoSubs
 7 10 28 301 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  290.8  2.0  0  0.00  80.  1009.  2 NAD-SFC NoSubs
 7 10 28 301 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  290.5  2.0  0  0.00  81.  1009.  2 NAD-SFC NoSubs
 7 10 28 301 23   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.2090  0.72  1.00  0.50   60.0  15.0  290.2  2.0  0  0.00  82.  1009.  2 NAD-SFC NoSubs
 7 10 28 301 24   -1.6  0.082 -9.000 -9.000 -999.   56.     31.5  0.2470  0.72  1.00  0.50   39.0  15.0  290.2  2.0  0  0.00  82.  1009.  3 NAD-SFC NoSubs
 7 10 29 302  1   -4.0  0.102 -9.000 -9.000 -999.   78.     23.7  0.2940  0.72  1.00  1.00   29.0  15.0  290.2  2.0  0  0.00  82.  1009.  3 NAD-SFC NoSubs
 7 10 29 302  2   -1.6  0.083 -9.000 -9.000 -999.   58.     31.8  0.2940  0.72  1.00  0.50    8.0  15.0  290.2  2.0  0  0.00  82.  1009.  3 NAD-SFC NoSubs
 7 10 29 302  3   -1.6  0.083 -9.000 -9.000 -999.   58.     31.8  0.2930  0.72  1.00  0.50  339.0  15.0  290.1  2.0  0  0.00  82.  1009.  3 NAD-SFC NoSubs
 7 10 29 302  4   -1.6  0.083 -9.000 -9.000 -999.   58.     31.8  0.2930  0.72  1.00  0.50  333.0  15.0  290.1  2.0  0  0.00  82.  1008.  3 NAD-SFC NoSubs
 7 10 29 302  5   -1.6  0.083 -9.000 -9.000 -999.   58.     31.8  0.2930  0.72  1.00  0.50  355.0  15.0  290.1  2.0  0  0.00  81.  1008.  3 NAD-SFC NoSubs
 7 10 29 302  6   -4.0  0.102 -9.000 -9.000 -999.   78.     23.7  0.2940  0.72  1.00  1.00    4.0  15.0  290.1  2.0  0  0.00  81.  1009.  3 NAD-SFC NoSubs
 7 10 29 302  7   -3.9  0.101 -9.000 -9.000 -999.   77.     23.7  0.2940  0.72  0.67  1.00    9.0  15.0  290.1  2.0  0  0.00  80.  1009.  3 NAD-SFC NoSubs
 7 10 29 302  8   19.7  0.087  0.337  0.011   70.   62.     -3.0  0.2470  0.72  0.35  0.50   48.0  15.0  290.0  2.0  0  0.00  80.  1008.  3 NAD-SFC NoSubs
 7 10 29 302  9   68.3  0.153  0.701  0.007  181.  144.     -4.7  0.2160  0.72  0.25  1.00  293.0  15.0  290.8  2.0  0  0.00  77.  1008.  3 NAD-SFC NoSubs
 7 10 29 302 10  107.3  0.322  1.008  0.005  343.  439.    -28.0  0.2720  0.72  0.21  2.60  314.0  15.0  293.0  2.0  0  0.00  66.  1008.  3 NAD-SFC NoSubs
 7 10 29 302 11  132.7  0.226  1.278  0.005  566.  262.     -7.8  0.2720  0.72  0.20  1.50  327.0  15.0  294.9  2.0  0  0.00  59.  1007.  3 NAD-SFC NoSubs
 7 10 29 302 12  142.2  0.231  1.432  0.005  742.  267.     -7.8  0.2930  0.72  0.20  1.50  355.0  15.0  296.6  2.0  0  0.00  51.  1006.  4 NAD-SFC NoSubs
 7 10 29 302 13  139.5  0.179  1.501  0.005  870.  182.     -3.7  0.2930  0.72  0.20  1.00  336.0  15.0  297.8  2.0  0  0.25  48.  1005.  3 NAD-SFC NoSubs
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 7 10 29 302 14  119.8  0.223  1.478  0.005  967.  253.    -8.3  0.2720  0.72  0.21  1.50  306.0  15.0  298.5  2.0  0  0.51  48.  1004.   4 NAD-SFC NoSubs
 7 10 29 302 15   87.2  0.430  1.382  0.005 1084.  676.   -81.5  0.2160  0.72  0.23  4.10  283.0  15.0  298.5  2.0  0  1.02  51.  1004.   4 NAD-SFC NoSubs
 7 10 29 302 16   42.4  0.390  1.103  0.005 1134.  585.  -124.9  0.2720  0.72  0.30  3.60  303.0  15.0  297.5  2.0  0  2.29  62.  1004.   4 NAD-SFC NoSubs
 7 10 29 302 17  -10.1  0.304 -9.000 -9.000 -999.  406.   248.6  0.2720  0.72  0.50  3.10  302.0  15.0  296.6  2.0  0  1.78  64.  1004.   4 NAD-SFC NoSubs
 7 10 29 302 18  -41.4  0.420 -9.000 -9.000 -999.  654.   160.7  0.2160  0.72  1.00  4.60  279.0  15.0  295.2  2.0  0  1.02  69.  1005.   4 NAD-SFC NoSubs
 7 10 29 302 19  -41.8  0.420 -9.000 -9.000 -999.  654.   159.4  0.2160  0.72  1.00  4.60  273.0  15.0  293.0  2.0  0  0.00  80.  1006.   4 NAD-SFC NoSubs
 7 10 29 302 20  -35.3  0.353 -9.000 -9.000 -999.  507.   112.1  0.1750  0.72  1.00  4.10  266.0  15.0  291.8  2.0  0  0.00  83.  1006.   4 NAD-SFC NoSubs
 7 10 29 302 21  -29.2  0.326 -9.000 -9.000 -999.  448.   107.1  0.2160  0.72  1.00  3.60  272.0  15.0  291.0  2.0  0  0.00  85.  1007.   6 NAD-SFC NoSubs
 7 10 29 302 22  -21.9  0.265 -9.000 -9.000 -999.  329.    76.5  0.1750  0.72  1.00  3.10  258.0  15.0  290.2  2.0  0  0.00  87.  1007.   7 NAD-SFC NoSubs
 7 10 29 302 23  -21.9  0.265 -9.000 -9.000 -999.  327.    76.3  0.1750  0.72  1.00  3.10  261.0  15.0  289.8  2.0  0  0.00  89.  1008.   7 NAD-SFC NoSubs
 7 10 29 302 24  -16.5  0.221 -9.000 -9.000 -999.  250.    58.8  0.1750  0.72  1.00  2.60  265.0  15.0  289.4  2.0  0  0.25  90.  1008.   8 NAD-SFC NoSubs
 7 10 30 303  1  -17.4  0.233 -9.000 -9.000 -999.  270.    65.5  0.2160  0.72  1.00  2.60  280.0  15.0  289.1  2.0  0  0.25  90.  1008.   8 NAD-SFC NoSubs
 7 10 30 303  2  -10.3  0.188 -9.000 -9.000 -999.  196.    57.7  0.2160  0.72  1.00  2.10  295.0  15.0  289.1  2.0  0  0.00  89.  1008.  10 NAD-SFC NoSubs
 7 10 30 303  3  -10.3  0.188 -9.000 -9.000 -999.  195.    57.7  0.2160  0.72  1.00  2.10  293.0  15.0  289.2  2.0  0  0.00  88.  1008.  10 NAD-SFC NoSubs
 7 10 30 303  4  -12.9  0.235 -9.000 -9.000 -999.  273.    90.5  0.2160  0.72  1.00  2.60  296.0  15.0  289.2  2.0  0  0.00  88.  1008.  10 NAD-SFC NoSubs
 7 10 30 303  5  -13.7  0.250 -9.000 -9.000 -999.  301.   102.7  0.2720  0.72  1.00  2.60  318.0  15.0  289.1  2.0  0  0.00  89.  1008.  10 NAD-SFC NoSubs
 7 10 30 303  6  -16.5  0.301 -9.000 -9.000 -999.  396.   148.0  0.2720  0.72  1.00  3.10  316.0  15.0  288.8  2.0  0  0.00  91.  1009.  10 NAD-SFC NoSubs
 7 10 30 303  7  -18.9  0.352 -9.000 -9.000 -999.  500.   206.5  0.2720  0.72  0.68  3.60  307.0  15.0  288.4  2.0  0  0.25  92.  1009.  10 NAD-SFC NoSubs
 7 10 30 303  8    1.4  0.410  0.129  0.005   54.  631. -4377.4  0.2720  0.72  0.35  4.10  309.0  15.0  288.2  2.0  0  0.25  92.  1009.  10 NAD-SFC NoSubs
 7 10 30 303  9   13.7  0.516  0.434  0.005  214.  890.   -902.5  0.2720  0.72  0.25  5.10  317.0  15.0  288.6  2.0  0  0.00  87.  1010.  10 NAD-SFC NoSubs
 7 10 30 303 10   95.5  0.508  1.129  0.005  543.  870.   -124.0  0.2930  0.72  0.21  4.60  344.0  15.0  289.6  2.0  0  0.00  81.  1010.   6 NAD-SFC NoSubs
 7 10 30 303 11  128.6  0.380  1.386  0.005  747.  574.    -38.3  0.2930  0.72  0.20  3.10  330.0  15.0  290.5  2.0  0  0.00  76.  1010.   4 NAD-SFC NoSubs
 7 10 30 303 12  138.7  0.216  1.525  0.005  922.  263.     -6.5  0.2160  0.72  0.20  1.50  296.0  15.0  291.1  2.0  0  0.00  72.  1009.   4 NAD-SFC NoSubs
 7 10 30 303 13  134.4  0.167  1.570  0.005 1036.  164.     -3.1  0.2160  0.72  0.20  1.00  293.0  15.0  291.8  2.0  0  0.00  68.  1008.   4 NAD-SFC NoSubs
 7 10 30 303 14  115.8  0.107  1.530  0.005 1113.   85.     -1.0  0.2160  0.72  0.21  0.50  278.0  15.0  292.2  2.0  0  0.00  65.  1008.   4 NAD-SFC NoSubs
 7 10 30 303 15   83.5 -9.000 -9.000 -9.000 1166. -999. -99999.0  0.2235  0.72  0.23  0.00    0.0  15.0  292.8  2.0  0  0.00  63.  1007.   4 NAD-SFC NoSubs
 7 10 30 303 16   39.2 -9.000 -9.000 -9.000 1190. -999. -99999.0  0.2235  0.72  0.30  0.00    0.0  15.0  292.8  2.0  0  0.00  62.  1007.   4 NAD-SFC NoSubs
 7 10 30 303 17   -0.7  0.057 -9.000 -9.000 -999.   33.    24.4  0.2130  0.72  0.51  0.50   94.0  15.0  292.5  2.0  0  0.00  67.  1007.   4 NAD-SFC NoSubs
 7 10 30 303 18   -3.4  0.095 -9.000 -9.000 -999.   70.    22.3  0.2130  0.72  1.00  1.00  114.0  15.0  291.5  2.0  0  0.00  72.  1008.   4 NAD-SFC NoSubs
 7 10 30 303 19   -6.8  0.126 -9.000 -9.000 -999.  107.    26.4  0.1970  0.72  1.00  1.50  143.0  15.0  290.5  2.0  0  0.00  79.  1008.   4 NAD-SFC NoSubs
 7 10 30 303 20  -13.2  0.175 -9.000 -9.000 -999.  175.    36.2  0.1810  0.72  1.00  2.10  158.0  15.0  289.5  2.0  0  0.00  84.  1008.   3 NAD-SFC NoSubs
 7 10 30 303 21  -13.3  0.175 -9.000 -9.000 -999.  175.    36.1  0.1810  0.72  1.00  2.10  169.0  15.0  288.8  2.0  0  0.00  88.  1009.   3 NAD-SFC NoSubs
 7 10 30 303 22   -6.7  0.123 -9.000 -9.000 -999.  104.    25.2  0.1810  0.72  1.00  1.50  170.0  15.0  288.2  2.0  0  0.00  90.  1010.   3 NAD-SFC NoSubs
 7 10 30 303 23   -3.4  0.094 -9.000 -9.000 -999.   69.    21.8  0.1810  0.72  1.00  1.00  159.0  15.0  287.8  2.0  0  0.00  91.  1010.   3 NAD-SFC NoSubs
 7 10 30 303 24   -3.5  0.095 -9.000 -9.000 -999.   70.    22.1  0.1970  0.72  1.00  1.00  127.0  15.0  287.2  2.0  0  0.00  94.  1010.   3 NAD-SFC NoSubs
 7 10 31 304  1   -1.5  0.080 -9.000 -9.000 -999.   54.    31.1  0.1970  0.72  1.00  0.50  130.0  15.0  286.8  2.0  0  0.00  95.  1010.   3 NAD-SFC NoSubs
 7 10 31 304  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  286.8  2.0  0  0.00  96.  1010.   2 NAD-SFC NoSubs
 7 10 31 304  3   -1.5  0.080 -9.000 -9.000 -999.   54.    31.1  0.1750  0.72  1.00  0.50  256.0  15.0  287.0  2.0  0  0.00  95.  1010.   2 NAD-SFC NoSubs
 7 10 31 304  4   -3.4  0.094 -9.000 -9.000 -999.   69.    21.7  0.1750  0.72  1.00  1.00  267.0  15.0  287.1  2.0  0  0.00  94.  1011.   2 NAD-SFC NoSubs
 7 10 31 304  5  -14.5  0.183 -9.000 -9.000 -999.  188.    37.8  0.2160  0.72  1.00  2.10  290.0  15.0  287.2  2.0  0  0.00  94.  1011.   2 NAD-SFC NoSubs
 7 10 31 304  6  -25.3  0.246 -9.000 -9.000 -999.  293.    53.1  0.2720  0.72  1.00  2.60  307.0  15.0  287.1  2.0  0  0.00  94.  1011.   2 NAD-SFC NoSubs
 7 10 31 304  7  -24.9  0.246 -9.000 -9.000 -999.  293.    53.8  0.2720  0.72  0.69  2.60  325.0  15.0  286.9  2.0  0  0.00  93.  1011.   2 NAD-SFC NoSubs
 7 10 31 304  8   15.0  0.239  0.381  0.005  133.  280.   -81.9  0.2930  0.72  0.35  2.10  331.0  15.0  286.8  2.0  0  0.00  93.  1012.   2 NAD-SFC NoSubs
 7 10 31 304  9   63.6  0.263  0.830  0.005  324.  324.   -25.8  0.2720  0.72  0.25  2.10  326.0  15.0  286.9  2.0  0  0.00  89.  1012.   2 NAD-SFC NoSubs
 7 10 31 304 10  102.4  0.160  1.247  0.010  684.  159.    -3.6  0.2160  0.72  0.22  1.00  294.0  15.0  288.0  2.0  0  0.00  81.  1012.   2 NAD-SFC NoSubs
 7 10 31 304 11  127.7  0.109  1.381  0.010  744.   87.    -1.0  0.2160  0.72  0.20  0.50  279.0  15.0  289.8  2.0  0  0.00  72.  1011.   2 NAD-SFC NoSubs
 7 10 31 304 12  138.5  0.116  1.457  0.009  805.   95.    -1.0  0.2720  0.72  0.20  0.50  311.0  15.0  291.5  2.0  0  0.00  63.  1010.   2 NAD-SFC NoSubs
 7 10 31 304 13  134.3  0.178  1.475  0.009  860.  180.    -3.8  0.2930  0.72  0.20  1.00  335.0  15.0  292.8  2.0  0  0.00  58.  1009.   2 NAD-SFC NoSubs
 7 10 31 304 14  115.3  0.284  1.426  0.009  905.  363.   -17.8  0.2930  0.72  0.21  2.10  344.0  15.0  293.6  2.0  0  0.00  55.  1008.   2 NAD-SFC NoSubs
 7 10 31 304 15   81.8  0.320  1.286  0.009  935.  434.   -36.0  0.2930  0.72  0.23  2.60  350.0  15.0  293.8  2.0  0  0.00  55.  1008.   2 NAD-SFC NoSubs
 7 10 31 304 16   36.2 -9.000 -9.000 -9.000  948. -999. -99999.0  0.2235  0.72  0.30  0.00    0.0  15.0  293.6  2.0  0  0.00  58.  1007.   2 NAD-SFC NoSubs
 7 10 31 304 17  -18.8  0.307 -9.000 -9.000 -999.  408.   138.6  0.2940  0.72  0.52  3.10    9.0  15.0  292.9  2.0  0  0.00  64.  1007.   2 NAD-SFC NoSubs
 7 10 31 304 18  -26.0  0.252 -9.000 -9.000 -999.  304.    55.3  0.2940  0.72  1.00  2.60   13.0  15.0  291.9  2.0  0  0.00  69.  1008.   2 NAD-SFC NoSubs
 7 10 31 304 19   -8.2  0.140 -9.000 -9.000 -999.  132.    29.9  0.2940  0.72  1.00  1.50   19.0  15.0  290.9  2.0  0  0.00  73.  1008.   3 NAD-SFC NoSubs
 7 10 31 304 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  289.9  2.0  0  0.00  78.  1008.   3 NAD-SFC NoSubs
 7 10 31 304 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  289.0  2.0  0  0.00  83.  1008.   3 NAD-SFC NoSubs
 7 10 31 304 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  288.2  2.0  0  0.00  87.  1009.   3 NAD-SFC NoSubs
 7 10 31 304 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  287.5  2.0  0  0.00  91.  1009.   3 NAD-SFC NoSubs
 7 10 31 304 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  286.9  2.0  0  0.00  94.  1009.   3 NAD-SFC NoSubs
 7 11  1 305  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  286.5  2.0  0  0.00  96.  1009.   3 NAD-SFC NoSubs
 7 11  1 305  2   -1.6  0.083 -9.000 -9.000 -999.   57.    31.8  0.2720  0.72  1.00  0.50  300.0  15.0  286.1  2.0  0  0.00  96.  1008.   3 NAD-SFC NoSubs
 7 11  1 305  3   -7.3  0.129 -9.000 -9.000 -999.  111.    26.3  0.2160  0.72  1.00  1.50  290.0  15.0  285.8  2.0  0  0.00  94.  1008.   2 NAD-SFC NoSubs
 7 11  1 305  4  -22.7  0.230 -9.000 -9.000 -999.  265.    48.4  0.2160  0.72  1.00  2.60  287.0  15.0  285.6  2.0  0  0.00  91.  1008.   2 NAD-SFC NoSubs
 7 11  1 305  5  -22.7  0.230 -9.000 -9.000 -999.  265.    48.3  0.2160  0.72  1.00  2.60  290.0  15.0  285.1  2.0  0  0.00  87.  1008.   2 NAD-SFC NoSubs
 7 11  1 305  6  -22.7  0.230 -9.000 -9.000 -999.  265.    48.3  0.2160  0.72  1.00  2.60  291.0  15.0  284.8  2.0  0  0.00  85.  1008.   2 NAD-SFC NoSubs
 7 11  1 305  7  -14.5  0.183 -9.000 -9.000 -999.  188.    38.0  0.2160  0.72  0.70  2.10  280.0  15.0  284.2  2.0  0  0.00  83.  1009.   2 NAD-SFC NoSubs
 7 11  1 305  8   13.4  0.171  0.304  0.009   75.  169.   -33.4  0.2160  0.72  0.36  1.50  275.0  15.0  284.5  2.0  0  0.00  81.  1009.   2 NAD-SFC NoSubs
 7 11  1 305  9   62.3  0.207  0.683  0.008  184.  226.   -12.9  0.2720  0.72  0.25  1.50  308.0  15.0  286.2  2.0  0  0.00  68.  1009.   2 NAD-SFC NoSubs
 7 11  1 305 10  101.1 -9.000 -9.000 -9.000  328. -999. -99999.0  0.2235  0.72  0.22  0.00    0.0  15.0  287.9  2.0  0  0.00  63.  1009.   2 NAD-SFC NoSubs
 7 11  1 305 11  126.5  0.104  1.197  0.008  487.   80.    -1.0  0.1750  0.72  0.20  0.50  248.0  15.0  289.9  2.0  0  0.00  55.  1008.   2 NAD-SFC NoSubs
 7 11  1 305 12  137.2  0.110  1.345  0.008  638.   87.    -1.0  0.2160  0.72  0.20  0.50  270.0  15.0  291.2  2.0  0  0.00  52.  1007.   2 NAD-SFC NoSubs
 7 11  1 305 13  132.9  0.109  1.397  0.007  737.   87.    -1.0  0.2160  0.72  0.20  0.50  282.0  15.0  292.2  2.0  0  0.00  50.  1006.   2 NAD-SFC NoSubs
 7 11  1 305 14  113.9  0.113  1.370  0.007  810.   91.    -1.1  0.2720  0.72  0.21  0.50  307.0  15.0  293.2  2.0  0  0.00  49.  1005.   2 NAD-SFC NoSubs
 7 11  1 305 15   80.6  0.217  1.244  0.007  858.  243.   -11.4  0.2930  0.72  0.23  1.50  331.0  15.0  293.6  2.0  0  0.00  48.  1005.   2 NAD-SFC NoSubs
 7 11  1 305 16   35.2  0.255  0.953  0.006  878.  308.   -41.9  0.2930  0.72  0.30  2.10  349.0  15.0  293.9  2.0  0  0.00  46.  1004.   2 NAD-SFC NoSubs
 7 11  1 305 17  -16.3  0.255 -9.000 -9.000 -999.  310.    91.6  0.2940  0.72  0.52  2.60    1.0  15.0  293.2  2.0  0  0.00  51.  1004.   2 NAD-SFC NoSubs
 7 11  1 305 18   -8.3  0.140 -9.000 -9.000 -999.  133.    29.6  0.2930  0.72  1.00  1.50  359.0  15.0  292.2  2.0  0  0.00  56.  1005.   2 NAD-SFC NoSubs
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7	11	1	305	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	290.9	2.0	0	0.00	61.	1005.	2	NAD-SFC	NoSubs
7	11	1	305	20	-1.5	0.080	-9.000	-9.000	-999.	55.	31.3	0.1950	0.72	1.00	0.50	215.0	15.0	289.6	2.0	0	0.00	67.	1006.	2	NAD-SFC	NoSubs
7	11	1	305	21	-1.5	0.080	-9.000	-9.000	-999.	55.	31.3	0.1950	0.72	1.00	0.50	217.0	15.0	288.6	2.0	0	0.00	72.	1006.	2	NAD-SFC	NoSubs
7	11	1	305	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	287.8	2.0	0	0.00	76.	1006.	2	NAD-SFC	NoSubs
7	11	1	305	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	287.0	2.0	0	0.00	80.	1007.	2	NAD-SFC	NoSubs
7	11	1	305	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	286.4	2.0	0	0.00	82.	1007.	2	NAD-SFC	NoSubs
7	11	2	306	1	-3.7	0.097	-9.000	-9.000	-999.	73.	22.4	0.2160	0.72	1.00	1.00	294.0	15.0	286.1	2.0	0	0.00	81.	1007.	2	NAD-SFC	NoSubs
7	11	2	306	2	-7.3	0.129	-9.000	-9.000	-999.	111.	26.3	0.2160	0.72	1.00	1.50	292.0	15.0	285.8	2.0	0	0.00	79.	1007.	2	NAD-SFC	NoSubs
7	11	2	306	3	-14.5	0.183	-9.000	-9.000	-999.	187.	37.7	0.2160	0.72	1.00	2.10	281.0	15.0	285.4	2.0	0	0.00	79.	1007.	2	NAD-SFC	NoSubs
7	11	2	306	4	-22.7	0.230	-9.000	-9.000	-999.	265.	48.3	0.2160	0.72	1.00	2.60	276.0	15.0	285.0	2.0	0	0.00	79.	1008.	2	NAD-SFC	NoSubs
7	11	2	306	5	-22.7	0.230	-9.000	-9.000	-999.	265.	48.3	0.2160	0.72	1.00	2.60	277.0	15.0	284.6	2.0	0	0.00	78.	1008.	2	NAD-SFC	NoSubs
7	11	2	306	6	-22.7	0.230	-9.000	-9.000	-999.	265.	48.3	0.2160	0.72	1.00	2.60	271.0	15.0	284.2	2.0	0	0.00	77.	1008.	2	NAD-SFC	NoSubs
7	11	2	306	7	-20.7	0.218	-9.000	-9.000	-999.	244.	45.0	0.1750	0.72	0.71	2.60	256.0	15.0	283.9	2.0	0	0.00	75.	1009.	2	NAD-SFC	NoSubs
7	11	2	306	8	12.3	0.264	0.275	0.008	61.	326.	-134.8	0.2160	0.72	0.36	2.60	271.0	15.0	284.0	2.0	0	0.00	73.	1009.	2	NAD-SFC	NoSubs
7	11	2	306	9	61.0	0.262	0.658	0.008	168.	322.	-26.5	0.2720	0.72	0.25	2.10	306.0	15.0	285.8	2.0	0	0.00	62.	1009.	2	NAD-SFC	NoSubs
7	11	2	306	10	99.8	0.160	0.938	0.008	297.	158.	-3.7	0.2160	0.72	0.22	1.00	288.0	15.0	287.6	2.0	0	0.00	56.	1009.	2	NAD-SFC	NoSubs
7	11	2	306	11	125.2	0.108	1.153	0.007	441.	86.	-1.0	0.2160	0.72	0.20	0.50	276.0	15.0	289.6	2.0	0	0.00	51.	1009.	2	NAD-SFC	NoSubs
7	11	2	306	12	136.0	0.110	1.327	0.008	618.	87.	-1.0	0.2160	0.72	0.20	0.50	293.0	15.0	291.2	2.0	0	0.00	46.	1008.	2	NAD-SFC	NoSubs
7	11	2	306	13	131.8	0.115	1.388	0.008	729.	93.	-1.0	0.2720	0.72	0.20	0.50	309.0	15.0	292.5	2.0	0	0.00	43.	1007.	2	NAD-SFC	NoSubs
7	11	2	306	14	112.8	0.174	1.361	0.007	804.	174.	-4.2	0.2930	0.72	0.21	1.00	332.0	15.0	293.4	2.0	0	0.00	42.	1007.	2	NAD-SFC	NoSubs
7	11	2	306	15	79.5	0.217	1.236	0.007	853.	242.	-11.5	0.2930	0.72	0.23	1.50	348.0	15.0	293.8	2.0	0	0.00	42.	1006.	2	NAD-SFC	NoSubs
7	11	2	306	16	34.1	-9.000	-9.000	-9.000	873.	-999.	-99999.0	0.2235	0.72	0.31	0.00	0.0	15.0	293.8	2.0	0	0.00	47.	1006.	2	NAD-SFC	NoSubs
7	11	2	306	17	-13.4	0.204	-9.000	-9.000	-999.	221.	56.4	0.2940	0.72	0.53	2.10	22.0	15.0	293.2	2.0	0	0.00	50.	1006.	2	NAD-SFC	NoSubs
7	11	2	306	18	-8.3	0.140	-9.000	-9.000	-999.	127.	29.6	0.2940	0.72	1.00	1.50	22.0	15.0	292.1	2.0	0	0.00	55.	1007.	2	NAD-SFC	NoSubs
7	11	2	306	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	290.8	2.0	0	0.00	61.	1008.	2	NAD-SFC	NoSubs
7	11	2	306	20	-1.5	0.080	-9.000	-9.000	-999.	54.	31.2	0.1900	0.72	1.00	0.50	209.0	15.0	289.5	2.0	0	0.00	67.	1008.	2	NAD-SFC	NoSubs
7	11	2	306	21	-1.5	0.080	-9.000	-9.000	-999.	55.	31.3	0.1950	0.72	1.00	0.50	238.0	15.0	288.5	2.0	0	0.00	72.	1008.	2	NAD-SFC	NoSubs
7	11	2	306	22	-1.5	0.081	-9.000	-9.000	-999.	56.	31.6	0.2160	0.72	1.00	0.50	290.0	15.0	287.8	2.0	0	0.00	75.	1009.	2	NAD-SFC	NoSubs
7	11	2	306	23	-1.7	0.085	-9.000	-9.000	-999.	59.	32.2	0.2940	0.72	1.00	0.50	25.0	15.0	287.1	2.0	0	0.00	78.	1009.	2	NAD-SFC	NoSubs
7	11	2	306	24	-1.6	0.083	-9.000	-9.000	-999.	57.	31.9	0.2470	0.72	1.00	0.50	30.0	15.0	286.4	2.0	0	0.00	81.	1009.	2	NAD-SFC	NoSubs
7	11	3	307	1	-3.9	0.099	-9.000	-9.000	-999.	75.	22.9	0.2470	0.72	1.00	1.00	32.0	15.0	285.9	2.0	0	0.00	83.	1009.	2	NAD-SFC	NoSubs
7	11	3	307	2	-1.7	0.085	-9.000	-9.000	-999.	59.	32.2	0.2940	0.72	1.00	0.50	8.0	15.0	285.4	2.0	0	0.00	85.	1010.	2	NAD-SFC	NoSubs
7	11	3	307	3	-1.6	0.082	-9.000	-9.000	-999.	56.	31.7	0.2160	0.72	1.00	0.50	298.0	15.0	285.0	2.0	0	0.00	85.	1010.	2	NAD-SFC	NoSubs
7	11	3	307	4	-3.7	0.097	-9.000	-9.000	-999.	73.	22.4	0.2160	0.72	1.00	1.00	286.0	15.0	284.8	2.0	0	0.00	84.	1010.	2	NAD-SFC	NoSubs
7	11	3	307	5	-7.4	0.129	-9.000	-9.000	-999.	111.	26.2	0.2160	0.72	1.00	1.50	292.0	15.0	284.5	2.0	0	0.00	81.	1010.	2	NAD-SFC	NoSubs
7	11	3	307	6	-3.7	0.097	-9.000	-9.000	-999.	73.	22.4	0.2160	0.72	1.00	1.00	274.0	15.0	284.2	2.0	0	0.00	78.	1011.	2	NAD-SFC	NoSubs
7	11	3	307	7	-3.4	0.094	-9.000	-9.000	-999.	69.	21.7	0.1750	0.72	0.72	1.00	248.0	15.0	284.0	2.0	0	0.00	75.	1011.	2	NAD-SFC	NoSubs
7	11	3	307	8	11.3	0.076	0.244	0.015	46.	50.	-3.5	0.1750	0.72	0.37	0.50	260.0	15.0	284.1	2.0	0	0.00	73.	1011.	2	NAD-SFC	NoSubs
7	11	3	307	9	60.1	0.197	0.624	0.011	146.	209.	-11.4	0.2160	0.72	0.25	1.50	290.0	15.0	286.8	2.0	0	0.00	56.	1011.	2	NAD-SFC	NoSubs
7	11	3	307	10	99.0	0.160	0.910	0.010	275.	154.	-3.7	0.2160	0.72	0.22	1.00	294.0	15.0	288.6	2.0	0	0.00	52.	1011.	2	NAD-SFC	NoSubs
7	11	3	307	11	124.4	0.114	1.120	0.009	407.	93.	-1.1	0.2720	0.72	0.21	0.50	321.0	15.0	290.8	2.0	0	0.00	48.	1010.	2	NAD-SFC	NoSubs
7	11	3	307	12	135.3	0.117	1.252	0.008	522.	96.	-1.1	0.2930	0.72	0.20	0.50	330.0	15.0	292.6	2.0	0	0.00	44.	1009.	2	NAD-SFC	NoSubs
7	11	3	307	13	131.3	0.177	1.309	0.007	615.	179.	-3.8	0.2930	0.72	0.20	1.00	333.0	15.0	294.2	2.0	0	0.00	40.	1008.	2	NAD-SFC	NoSubs
7	11	3	307	14	112.4	0.225	1.293	0.006	692.	256.	-9.1	0.2930	0.72	0.21	1.50	345.0	15.0	295.2	2.0	0	0.00	36.	1008.	2	NAD-SFC	NoSubs
7	11	3	307	15	79.1	0.273	1.182	0.006	751.	343.	-23.2	0.2930	0.72	0.24	2.10	351.0	15.0	295.4	2.0	0	0.00	36.	1007.	2	NAD-SFC	NoSubs
7	11	3	307	16	33.6	0.254	0.898	0.006	773.	307.	-43.6	0.2940	0.72	0.31	2.10	2.0	15.0	295.1	2.0	0	0.00	42.	1007.	2	NAD-SFC	NoSubs
7	11	3	307	17	8.5	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	0.54	0.00	0.0	15.0	294.2	2.0	0	0.00	45.	1006.	2	NAD-SFC	NoSubs
7	11	3	307	18	-16.6	0.200	-9.000	-9.000	-999.	215.	43.2	0.2940	0.72	1.00	2.10	14.0	15.0	293.0	2.0	0	0.00	49.	1007.	2	NAD-SFC	NoSubs
7	11	3	307	19	-7.7	0.133	-9.000	-9.000	-999.	118.	27.7	0.2470	0.72	1.00	1.50	44.0	15.0	291.6	2.0	0	0.00	55.	1007.	2	NAD-SFC	NoSubs
7	11	3	307	20	-1.5	0.081	-9.000	-9.000	-999.	56.	31.4	0.2130	0.72	1.00	0.50	90.0	15.0	290.5	2.0	0	0.00	59.	1008.	2	NAD-SFC	NoSubs
7	11	3	307	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	289.8	2.0	0	0.00	62.	1008.	2	NAD-SFC	NoSubs
7	11	3	307	22	-1.6	0.083	-9.000	-9.000	-999.	57.	31.8	0.2470	0.72	1.00	0.50	36.0	15.0	288.8	2.0	0	0.00	65.	1008.	2	NAD-SFC	NoSubs
7	11	3	307	23	-4.1	0.103	-9.000	-9.000	-999.	79.	23.7	0.2940	0.72	1.00	1.00	17.0	15.0	287.9	2.0	0	0.00	68.	1009.	2	NAD-SFC	NoSubs
7	11	3	307	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	287.1	2.0	0	0.00	72.	1008.	2	NAD-SFC	NoSubs
7	11	4	308	1	-8.4	0.140	-9.000	-9.000	-999.	125.	29.3	0.2930	0.72	1.00	1.50	349.0	15.0	286.4	2.0	0	0.00	75.	1008.	2	NAD-SFC	NoSubs
7	11	4	308	2	-8.4	0.140	-9.000	-9.000	-999.	125.	29.2	0.2930	0.72	1.00	1.50	353.0	15.0	286.0	2.0	0	0.00	77.	1008.	2	NAD-SFC	NoSubs
7	11	4	308	3	-4.0	0.101	-9.000	-9.000	-999.	77.	23.3	0.2720	0.72	1.00	1.00	328.0	15.0	285.6	2.0	0	0.00	77.	1008.	2	NAD-SFC	NoSubs
7	11	4	308	4	-4.1	0.103	-9.000	-9.000	-999.	79.	23.6	0.2930	0.72	1.00	1.00	332.0	15.0	285.4	2.0	0	0.00	76.	1008.	2	NAD-SFC	NoSubs
7	11	4	308	5	-4.1	0.103	-9.000	-9.000	-999.	79.	23.6	0.2930	0.72	1.00	1.00	330.0	15.0	285.2	2.0	0	0.00	73.	1008.	2	NAD-SFC	NoSubs
7	11	4	308	6	-1.7	0.085	-9.000	-9.000	-999.	59.	32.2	0.2940	0.72	1.00	0.50	2.0	15.0	284.9	2.0	0	0.00	71.	1009.	2	NAD-SFC	NoSubs
7	11	4	308	7	-1.7	0.085	-9.000	-9.000	-999.	59.	32.2	0.2940	0.72	0.73	0.50	25.0	15.0	284.5	2.0	0	0.00	71.	1009.	2	NAD-SFC	NoSubs
7	11	4	308	8	10.4	0.081	0.228	0.017	41.	55.	-4.5	0.2470	0.72	0.37	0.50	30.0	15.0	284.5	2.0	0	0.00	70.	1009.	2	NAD-SFC	NoSubs
7	11	4	308	9	59.0	0.206	0.583	0.010	121.	225.	-13.3	0.2720	0.72	0.26	1.50	322.0	15.0	287.2	2.0	0	0.00	54.	1009.	2	NAD-SFC	NoSubs
7	11	4	308	10	97.9	0.218	0.840	0.010	218.	245.	-9.5	0.2720	0.72	0.22	1.50	306.0	15.0	289.1	2.0	0	0.00	49.	1009.	2	NAD-SFC	NoSubs
7	11	4	308	11	123.4	0.224	1.070	0.008	358.	254.	-8.2	0.2720	0.72	0.21	1.50	315.0	15.0	291.2	2.0	0	0.00	47.	1009.	2	NAD-SFC	NoSubs
7	11	4	308	12	134.3	0.175	1.227	0.007	495.	176.	-3.6	0.2720	0.72	0.20	1.00	326.0	15.0	293.1	2.0	0	0.00	43.	1008.	2	NAD-SFC	NoSubs
7	11	4	308	13	130.3	0.177	1.302	0.006	609.	179.	-3.8	0.2930	0.72	0.20	1.00	332.0	15.0	294.5	2.0	0	0.00	41.	1007.	2	NAD-SFC	NoSubs
7	11	4	308	14	111.4	0.174	1.301	0.006	710.	174.	-4.2	0.2930	0.72	0.21	1.00	344.0	15.0	295.6	2.0	0	0.00	37.	1006.	2	NAD-SFC	NoSubs
7	11	4	308	15	78.2	0.216	1.197	0.005	787.	242.	-11.6	0.2930	0.72	0.24	1.50	360.0	15.0	296.0	2.0	0	0.00	36.	1005.	2	NAD-SFC	NoSubs
7	11	4	308	16	32.9	0.198	0.909	0.005	817.	211.	-21.1	0.2940	0.72	0.31	1.50	14.0	15.0	295.9	2.0	0	0.00	41.	1005.	2	NAD-SFC	NoSubs
7	11	4	308	17	-6.8	0.141	-9.000	-9.000	-999.	128.	37.1	0.2940	0.72	0.54	1.50	25.0	15.0	295.1	2.0	0	0.00	45.	1005.	2	NAD-SFC	NoSubs
7	11	4	308	18	-1.7	0.084	-9.000	-9.000	-999.	59.	31.9	0.2940	0.72	1.00	0.50	25.0	15.0	293.8	2.0	0	0.00	51.	1005.	2	NAD-SFC	NoSubs
7	11	4	308	19	-1.5	0.080	-9.000	-9.000	-999.	54.	31.2	0.1950	0.72	1.00	0.50	236.0	15.0	292.1	2.0	0	0.00	57.	1005.	2	NAD-SFC	NoSubs
7	11	4	308	20	-1.4	0.079	-9.000	-9.000	-999.	53.	31.0	0.1750	0.72	1.00	0.50	246.0	15.0	290.9	2.0	0	0.00	63.	1006.	2	NAD-SFC	NoSubs
7	11	4	308	21	-1.4	0.079	-9.000	-9.000	-999.	53.	31.0	0.1750	0.72	1.00	0.50	268.0	15.0	289.9	2.0	0	0.00	67.	1006.	2	NAD-SFC	NoSubs
7	11	4	308	22	-3.6	0.097	-9.000	-9.000	-999.	72.	22.4	0.2160	0.72	1.00	1.00	277.0	15.0	289.2	2.0	0	0.00	69.	1006.	2	NAD-SFC	NoSubs
7	11	4	308	23	-1.6	0.084	-9.000	-9.000	-999.	58.	32.0	0.2720	0.72	1.00	0.50	307.0	15.0	288.5	2.0	0	0.00	71.	1006.	2	NAD-SFC	NoSubs

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 7 11   4 308 24   -1.7  0.084 -9.000 -9.000 -999.   59.     32.1  0.2930  0.72  1.00  0.50  348.0  15.0  288.0  2.0   0  0.00  72.  1006.    2 NAD-SFC NoSubs
 7 11   5 309  1   -1.7  0.085 -9.000 -9.000 -999.   59.     32.2  0.2940  0.72  1.00  0.50   19.0  15.0  287.5  2.0   0  0.00  73.  1006.    2 NAD-SFC NoSubs
 7 11   5 309  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  286.9  2.0   0  0.00  74.  1006.    2 NAD-SFC NoSubs
 7 11   5 309  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  286.4  2.0   0  0.00  76.  1006.    2 NAD-SFC NoSubs
 7 11   5 309  4   -1.5  0.080 -9.000 -9.000 -999.   54.     31.1  0.1750  0.72  1.00  0.50  250.0  15.0  286.0  2.0   0  0.00  77.  1007.    2 NAD-SFC NoSubs
 7 11   5 309  5   -1.5  0.080 -9.000 -9.000 -999.   54.     31.2  0.1750  0.72  1.00  0.50  267.0  15.0  285.6  2.0   0  0.00  78.  1007.    2 NAD-SFC NoSubs
 7 11   5 309  6   -1.5  0.082 -9.000 -9.000 -999.   56.     31.6  0.2160  0.72  1.00  0.50  281.0  15.0  285.2  2.0   0  0.00  78.  1007.    2 NAD-SFC NoSubs
 7 11   5 309  7   -1.5  0.082 -9.000 -9.000 -999.   56.     31.6  0.2160  0.72  0.74  0.50  289.0  15.0  284.9  2.0   0  0.00  79.  1008.    2 NAD-SFC NoSubs
 7 11   5 309  8    9.5  0.077  0.217  0.014   39.   52.     -4.4  0.2160  0.72  0.37  0.50  287.0  15.0  284.9  2.0   0  0.00  79.  1008.    2 NAD-SFC NoSubs
 7 11   5 309  9   57.9  0.158  0.607  0.010  139.  150.     -6.1  0.2720  0.72  0.26  1.00  315.0  15.0  287.2  2.0   0  0.00  68.  1008.    2 NAD-SFC NoSubs
 7 11   5 309 10   96.7  0.168  0.903  0.009  274.  165.     -4.4  0.2720  0.72  0.22  1.00  300.0  15.0  289.1  2.0   0  0.00  62.  1008.    2 NAD-SFC NoSubs
 7 11   5 309 11  122.1  0.173  1.116  0.008  409.  173.     -3.8  0.2720  0.72  0.21  1.00  302.0  15.0  291.0  2.0   0  0.00  56.  1007.    2 NAD-SFC NoSubs
 7 11   5 309 12  133.0  0.226  1.275  0.008  560.  257.     -7.7  0.2720  0.72  0.20  1.50  305.0  15.0  292.9  2.0   0  0.00  47.  1006.    2 NAD-SFC NoSubs
 7 11   5 309 13  128.8  0.225  1.342  0.007  674.  256.     -7.9  0.2720  0.72  0.20  1.50  309.0  15.0  293.9  2.0   0  0.00  44.  1006.    2 NAD-SFC NoSubs
 7 11   5 309 14  109.8  0.278  1.324  0.007  759.  351.    -17.5  0.2720  0.72  0.21  2.10  316.0  15.0  294.6  2.0   0  0.00  43.  1005.    2 NAD-SFC NoSubs
 7 11   5 309 15   76.6  0.272  1.202  0.007  812.  341.    -23.7  0.2930  0.72  0.24  2.10  330.0  15.0  294.9  2.0   0  0.00  43.  1005.    2 NAD-SFC NoSubs
 7 11   5 309 16   31.4  0.252  0.901  0.007  833.  304.    -45.7  0.2930  0.72  0.31  2.10  338.0  15.0  294.8  2.0   0  0.00  48.  1004.    2 NAD-SFC NoSubs
 7 11   5 309 17   -6.9  0.141 -9.000 -9.000 -999.  133.     36.0  0.2930  0.72  0.55  1.50  338.0  15.0  294.2  2.0   0  0.00  51.  1004.    2 NAD-SFC NoSubs
 7 11   5 309 18   -1.7  0.084 -9.000 -9.000 -999.   59.     31.9  0.2930  0.72  1.00  0.50  334.0  15.0  293.1  2.0   0  0.00  55.  1005.    2 NAD-SFC NoSubs
 7 11   5 309 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  291.8  2.0   0  0.00  61.  1005.    2 NAD-SFC NoSubs
 7 11   5 309 20   -1.5  0.080 -9.000 -9.000 -999.   54.     31.2  0.1900  0.72  1.00  0.50  209.0  15.0  290.4  2.0   0  0.00  67.  1005.    2 NAD-SFC NoSubs
 7 11   5 309 21   -1.5  0.080 -9.000 -9.000 -999.   55.     31.3  0.1950  0.72  1.00  0.50  216.0  15.0  289.5  2.0   0  0.00  71.  1005.    2 NAD-SFC NoSubs
 7 11   5 309 22   -1.4  0.079 -9.000 -9.000 -999.   54.     31.0  0.1750  0.72  1.00  0.50  267.0  15.0  288.8  2.0   0  0.00  73.  1006.    2 NAD-SFC NoSubs
 7 11   5 309 23   -1.5  0.081 -9.000 -9.000 -999.   56.     31.5  0.2160  0.72  1.00  0.50  298.0  15.0  288.2  2.0   0  0.00  74.  1006.    2 NAD-SFC NoSubs
 7 11   5 309 24   -4.0  0.101 -9.000 -9.000 -999.   77.     23.3  0.2720  0.72  1.00  1.00  309.0  15.0  287.8  2.0   0  0.00  74.  1006.    2 NAD-SFC NoSubs
 7 11   6 310  1   -4.0  0.101 -9.000 -9.000 -999.   77.     23.3  0.2720  0.72  1.00  1.00  312.0  15.0  287.5  2.0   0  0.00  73.  1006.    2 NAD-SFC NoSubs
 7 11   6 310  2   -4.0  0.101 -9.000 -9.000 -999.   77.     23.3  0.2720  0.72  1.00  1.00  301.0  15.0  287.2  2.0   0  0.00  72.  1006.    2 NAD-SFC NoSubs
 7 11   6 310  3   -3.7  0.097 -9.000 -9.000 -999.   73.     22.4  0.2160  0.72  1.00  1.00  280.0  15.0  286.8  2.0   0  0.00  72.  1006.    2 NAD-SFC NoSubs
 7 11   6 310  4   -3.4  0.094 -9.000 -9.000 -999.   69.     21.7  0.1750  0.72  1.00  1.00  264.0  15.0  286.4  2.0   0  0.00  72.  1006.    2 NAD-SFC NoSubs
 7 11   6 310  5   -3.4  0.094 -9.000 -9.000 -999.   69.     21.7  0.1750  0.72  1.00  1.00  255.0  15.0  286.0  2.0   0  0.00  72.  1007.    2 NAD-SFC NoSubs
 7 11   6 310  6   -6.7  0.123 -9.000 -9.000 -999.  103.     24.6  0.1750  0.72  1.00  1.50  252.0  15.0  285.8  2.0   0  0.00  72.  1007.    2 NAD-SFC NoSubs
 7 11   6 310  7   -6.7  0.123 -9.000 -9.000 -999.  103.     24.6  0.1750  0.72  0.75  1.50  257.0  15.0  285.2  2.0   0  0.00  72.  1007.    2 NAD-SFC NoSubs
 7 11   6 310  8    8.5  0.158  0.233  0.011   53.  150.    -41.3  0.1750  0.72  0.38  1.50  262.0  15.0  285.2  2.0   0  0.00  71.  1007.    2 NAD-SFC NoSubs
 7 11   6 310  9   56.6  0.260  0.672  0.009  192.  319.    -28.0  0.2720  0.72  0.26  2.10  318.0  15.0  286.6  2.0   0  0.00  64.  1007.    2 NAD-SFC NoSubs
 7 11   6 310 10   95.2  0.167  0.934  0.010  307.  168.     -4.4  0.2720  0.72  0.22  1.00  304.0  15.0  288.1  2.0   0  0.00  59.  1007.    2 NAD-SFC NoSubs
 7 11   6 310 11  120.6  0.108  1.119  0.008  417.   86.     -1.0  0.2160  0.72  0.21  0.50  288.0  15.0  290.0  2.0   0  0.00  53.  1006.    2 NAD-SFC NoSubs
 7 11   6 310 12  131.5  0.109  1.259  0.008  544.   87.     -1.0  0.2160  0.72  0.20  0.50  293.0  15.0  291.9  2.0   0  0.00  46.  1005.    2 NAD-SFC NoSubs
 7 11   6 310 13  127.4  0.114  1.318  0.008  644.   93.     -1.1  0.2720  0.72  0.20  0.50  307.0  15.0  293.1  2.0   0  0.00  43.  1004.    2 NAD-SFC NoSubs
 7 11   6 310 14  108.4  0.112  1.301  0.007  728.   90.     -1.2  0.2720  0.72  0.21  0.50  327.0  15.0  293.9  2.0   0  0.00  41.  1004.    2 NAD-SFC NoSubs
 7 11   6 310 15   75.2  0.165  1.181  0.007  784.  161.     -5.4  0.2930  0.72  0.24  1.00  355.0  15.0  294.2  2.0   0  0.00  41.  1003.    2 NAD-SFC NoSubs
 7 11   6 310 16   30.2  0.196  0.879  0.007  805.  209.    -22.4  0.2940  0.72  0.32  1.50   14.0  15.0  294.2  2.0   0  0.00  41.  1003.    2 NAD-SFC NoSubs
 7 11   6 310 17   -7.1  0.141 -9.000 -9.000 -999.  127.     35.3  0.2940  0.72  0.56  1.50   29.0  15.0  293.6  2.0   0  0.00  45.  1003.    2 NAD-SFC NoSubs
 7 11   6 310 18   -3.8  0.099 -9.000 -9.000 -999.   75.     22.9  0.2470  0.72  1.00  1.00   36.0  15.0  292.4  2.0   0  0.00  50.  1003.    2 NAD-SFC NoSubs
 7 11   6 310 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  291.0  2.0   0  0.00  56.  1003.    2 NAD-SFC NoSubs
 7 11   6 310 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  289.8  2.0   0  0.00  62.  1003.    2 NAD-SFC NoSubs
 7 11   6 310 21   -1.6  0.084 -9.000 -9.000 -999.   58.     32.0  0.2720  0.72  1.00  0.50  300.0  15.0  288.9  2.0   0  0.00  66.  1004.    2 NAD-SFC NoSubs
 7 11   6 310 22   -1.7  0.084 -9.000 -9.000 -999.   59.     32.1  0.2930  0.72  1.00  0.50  335.0  15.0  288.2  2.0   0  0.00  69.  1004.    2 NAD-SFC NoSubs
 7 11   6 310 23   -1.7  0.085 -9.000 -9.000 -999.   59.     32.1  0.2930  0.72  1.00  0.50  351.0  15.0  287.5  2.0   0  0.00  71.  1005.    2 NAD-SFC NoSubs
 7 11   6 310 24   -1.7  0.085 -9.000 -9.000 -999.   59.     32.2  0.2940  0.72  1.00  0.50   13.0  15.0  287.0  2.0   0  0.00  73.  1005.    2 NAD-SFC NoSubs
 7 11   7 311  1   -1.6  0.083 -9.000 -9.000 -999.   57.     31.9  0.2470  0.72  1.00  0.50   30.0  15.0  286.5  2.0   0  0.00  74.  1005.    2 NAD-SFC NoSubs
 7 11   7 311  2   -1.7  0.085 -9.000 -9.000 -999.   59.     32.2  0.2940  0.72  1.00  0.50   17.0  15.0  286.1  2.0   0  0.00  76.  1005.    2 NAD-SFC NoSubs
 7 11   7 311  3   -1.7  0.085 -9.000 -9.000 -999.   59.     32.2  0.2930  0.72  1.00  0.50  350.0  15.0  285.8  2.0   0  0.00  77.  1006.    2 NAD-SFC NoSubs
 7 11   7 311  4   -4.1  0.103 -9.000 -9.000 -999.   79.     23.6  0.2930  0.72  1.00  1.00  330.0  15.0  285.4  2.0   0  0.00  77.  1006.    2 NAD-SFC NoSubs
 7 11   7 311  5   -3.7  0.097 -9.000 -9.000 -999.   73.     22.4  0.2160  0.72  1.00  1.00  299.0  15.0  285.2  2.0   0  0.00  77.  1006.    2 NAD-SFC NoSubs
 7 11   7 311  6   -3.7  0.097 -9.000 -9.000 -999.   73.     22.4  0.2160  0.72  1.00  1.00  291.0  15.0  285.0  2.0   0  0.00  75.  1007.    2 NAD-SFC NoSubs
 7 11   7 311  7   -1.5  0.082 -9.000 -9.000 -999.   56.     31.7  0.2160  0.72  0.77  0.50  289.0  15.0  284.8  2.0   0  0.00  74.  1007.    2 NAD-SFC NoSubs
 7 11   7 311  8    7.5  0.075  0.194  0.016   35.   50.     -5.1  0.2160  0.72  0.38  0.50  287.0  15.0  284.9  2.0   0  0.00  72.  1008.    2 NAD-SFC NoSubs
 7 11   7 311  9   55.6  0.260  0.583  0.009  128.  318.    -28.4  0.2720  0.72  0.26  2.10  315.0  15.0  287.2  2.0   0  0.00  58.  1008.    2 NAD-SFC NoSubs
 7 11   7 311 10   94.4  0.260  0.856  0.009  239.  319.    -16.8  0.2160  0.72  0.22  2.10  299.0  15.0  289.1  2.0   0  0.00  54.  1008.    2 NAD-SFC NoSubs
 7 11   7 311 11  119.8  0.223  1.074  0.009  372.  253.     -8.3  0.2720  0.72  0.21  1.50  306.0  15.0  291.2  2.0   0  0.00  49.  1008.    2 NAD-SFC NoSubs
 7 11   7 311 12  130.7  0.229  1.217  0.008  496.  263.     -8.2  0.2930  0.72  0.20  1.50  334.0  15.0  292.9  2.0   0  0.00  46.  1007.    2 NAD-SFC NoSubs
 7 11   7 311 13  126.7  0.228  1.281  0.006  595.  262.     -8.4  0.2930  0.72  0.20  1.50  330.0  15.0  294.4  2.0   0  0.00  44.  1006.    2 NAD-SFC NoSubs
 7 11   7 311 14  108.0  0.282  1.267  0.006  675.  359.    -18.6  0.2930  0.72  0.21  2.10  339.0  15.0  295.5  2.0   0  0.00  41.  1005.    2 NAD-SFC NoSubs
 7 11   7 311 15   74.9  0.272  1.159  0.006  745.  340.    -24.0  0.2930  0.72  0.24  2.10  360.0  15.0  295.9  2.0   0  0.00  40.  1005.    2 NAD-SFC NoSubs
 7 11   7 311 16   29.9  0.251  0.864  0.005  771.  303.    -47.6  0.2940  0.72  0.32  2.10   13.0  15.0  295.8  2.0   0  0.00  45.  1004.    2 NAD-SFC NoSubs
 7 11   7 311 17  -13.2  0.192 -9.000 -9.000 -999.  204.     48.3  0.2470  0.72  0.56  2.10   32.0  15.0  295.0  2.0   0  0.00  47.  1004.    2 NAD-SFC NoSubs
 7 11   7 311 18   -3.8  0.099 -9.000 -9.000 -999.   78.     22.9  0.2470  0.72  1.00  1.00   35.0  15.0  293.9  2.0   0  0.00  52.  1005.    2 NAD-SFC NoSubs
 7 11   7 311 19   -1.4  0.079 -9.000 -9.000 -999.   53.     30.9  0.1750  0.72  1.00  0.50  254.0  15.0  292.5  2.0   0  0.00  57.  1005.    2 NAD-SFC NoSubs
 7 11   7 311 20   -6.6  0.122 -9.000 -9.000 -999.  103.     24.8  0.1750  0.72  1.00  1.50  251.0  15.0  291.4  2.0   0  0.00  62.  1005.    2 NAD-SFC NoSubs
 7 11   7 311 21  -20.5  0.218 -9.000 -9.000 -999.  244.     45.3  0.1750  0.72  1.00  2.60  267.0  15.0  290.9  2.0   0  0.00  63.  1006.    2 NAD-SFC NoSubs
 7 11   7 311 22  -22.5  0.230 -9.000 -9.000 -999.  265.     48.8  0.2160  0.72  1.00  2.60  287.0  15.0  290.2  2.0   0  0.00  64.  1006.    2 NAD-SFC NoSubs
 7 11   7 311 23  -16.1  0.195 -9.000 -9.000 -999.  207.     41.6  0.2720  0.72  1.00  2.10  317.0  15.0  289.4  2.0   0  0.00  66.  1007.    2 NAD-SFC NoSubs
 7 11   7 311 24   -4.1  0.102 -9.000 -9.000 -999.   82.     23.6  0.2930  0.72  1.00  1.00  350.0  15.0  288.8  2.0   0  0.00  67.  1007.    2 NAD-SFC NoSubs
 7 11   8 312  1   -1.6  0.083 -9.000 -9.000 -999.   57.     31.8  0.2470  0.72  1.00  0.50   36.0  15.0  288.1  2.0   0  0.00  68.  1007.    2 NAD-SFC NoSubs
 7 11   8 312  2   -1.6  0.083 -9.000 -9.000 -999.   57.     31.8  0.2470  0.72  1.00  0.50   39.0  15.0  287.9  2.0   0  0.00  68.  1007.    2 NAD-SFC NoSubs
 7 11   8 312  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  287.5  2.0   0  0.00  68.  1007.    2 NAD-SFC NoSubs
 7 11   8 312  4   -1.5  0.080 -9.000 -9.000 -999.   55.     31.3  0.1900  0.72  1.00  0.50  198.0  15.0  286.9  2.0   0  0.00  71.  1007.    2 NAD-SFC NoSubs
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 7 11   8 312   5   -3.5  0.095 -9.000 -9.000 -999.   71.     22.0  0.1900  0.72  1.00  1.00 199.0  15.0 286.1  2.0    0  0.00   75. 1007.     2 NAD-SFC NoSubs
 7 11   8 312   6   -1.5  0.080 -9.000 -9.000 -999.   55.     31.3  0.1900  0.72  1.00  0.50 202.0  15.0 285.5  2.0    0  0.00   78. 1007.     2 NAD-SFC NoSubs
 7 11   8 312   7    2.5 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 285.0  2.0    0  0.00   81. 1007.     2 NAD-SFC NoSubs
 7 11   8 312   8    6.4 -9.000 -9.000 -9.000   49. -999. -99999.0  0.2235  0.72  0.39  0.00   0.0  15.0 284.8  2.0    0  0.00   82. 1007.     2 NAD-SFC NoSubs
 7 11   8 312   9   54.3  0.102  0.644  0.008  177.   78.     -1.7  0.2720  0.72  0.26  0.50 328.0  15.0 286.8  2.0    0  0.00   74. 1007.     2 NAD-SFC NoSubs
 7 11   8 312  10   92.9  0.167  0.947  0.008  329.  163.     -4.5  0.2720  0.72  0.22  1.00 324.0  15.0 288.2  2.0    0  0.00   69. 1007.     2 NAD-SFC NoSubs
 7 11   8 312  11  118.1  0.113  1.163  0.007  478.   92.     -1.1  0.2720  0.72  0.21  0.50 307.0  15.0 289.6  2.0    0  0.00   65. 1007.     2 NAD-SFC NoSubs
 7 11   8 312  12  128.8  0.166  1.302  0.007  615.  162.     -3.2  0.2160  0.72  0.20  1.00 298.0  15.0 291.0  2.0    0  0.00   59. 1006.     2 NAD-SFC NoSubs
 7 11   8 312  13  124.5  0.173  1.358  0.007  722.  173.     -3.8  0.2720  0.72  0.21  1.00 309.0  15.0 291.8  2.0    0  0.00   56. 1005.     2 NAD-SFC NoSubs
 7 11   8 312  14  105.5  0.170  1.331  0.007  801.  168.     -4.2  0.2720  0.72  0.21  1.00 307.0  15.0 292.2  2.0    0  0.00   54. 1005.     2 NAD-SFC NoSubs
 7 11   8 312  15   72.4  0.165  1.198  0.007  852.  160.     -5.5  0.2930  0.72  0.24  1.00 333.0  15.0 292.4  2.0    0  0.00   54. 1004.     2 NAD-SFC NoSubs
 7 11   8 312  16   27.5  0.095  0.874  0.007  870.   71.     -2.8  0.2930  0.72  0.32  0.50 348.0  15.0 292.2  2.0    0  0.00   58. 1004.     2 NAD-SFC NoSubs
 7 11   8 312  17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.57  0.00   0.0  15.0 291.6  2.0    0  0.00   61. 1003.     2 NAD-SFC NoSubs
 7 11   8 312  18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 290.8  2.0    0  0.00   66. 1004.     2 NAD-SFC NoSubs
 7 11   8 312  19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 290.0  2.0    0  0.00   70. 1004.     2 NAD-SFC NoSubs
 7 11   8 312  20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 289.6  2.0    0  0.00   72. 1004.     2 NAD-SFC NoSubs
 7 11   8 312  21   -1.6  0.083 -9.000 -9.000 -999.   58.     31.9  0.2720  0.72  1.00  0.50 305.0  15.0 289.4  2.0    0  0.00   72. 1005.     2 NAD-SFC NoSubs
 7 11   8 312  22   -3.9  0.100 -9.000 -9.000 -999.   76.     23.3  0.2720  0.72  1.00  1.00 325.0  15.0 289.0  2.0    0  0.00   74. 1005.     3 NAD-SFC NoSubs
 7 11   8 312  23  -16.5  0.200 -9.000 -9.000 -999.  214.     43.5  0.2930  0.72  1.00  2.10 333.0  15.0 288.6  2.0    0  0.00   76. 1006.     3 NAD-SFC NoSubs
 7 11   8 312  24  -24.8  0.246 -9.000 -9.000 -999.  293.     53.9  0.2720  0.72  1.00  2.60 319.0  15.0 288.1  2.0    0  0.00   77. 1006.     3 NAD-SFC NoSubs
 7 11   9 313   1  -24.8  0.246 -9.000 -9.000 -999.  293.     53.9  0.2720  0.72  1.00  2.60 320.0  15.0 287.8  2.0    0  0.00   77. 1006.     3 NAD-SFC NoSubs
 7 11   9 313   2  -16.5  0.200 -9.000 -9.000 -999.  215.     43.3  0.2930  0.72  1.00  2.10 332.0  15.0 287.2  2.0    0  0.00   77. 1006.     3 NAD-SFC NoSubs
 7 11   9 313   3   -8.3  0.140 -9.000 -9.000 -999.  126.     29.7  0.2930  0.72  1.00  1.50 354.0  15.0 287.0  2.0    0  0.00   78. 1006.     3 NAD-SFC NoSubs
 7 11   9 313   4   -4.0  0.102 -9.000 -9.000 -999.   78.     23.6  0.2930  0.72  1.00  1.00 355.0  15.0 286.8  2.0    0  0.00   78. 1007.     3 NAD-SFC NoSubs
 7 11   9 313   5   -3.9  0.100 -9.000 -9.000 -999.   76.     23.3  0.2720  0.72  1.00  1.00 321.0  15.0 286.5  2.0    0  0.00   79. 1007.     3 NAD-SFC NoSubs
 7 11   9 313   6   -7.2  0.129 -9.000 -9.000 -999.  111.     26.6  0.2160  0.72  1.00  1.50 295.0  15.0 286.1  2.0    0  0.00   80. 1007.     3 NAD-SFC NoSubs
 7 11   9 313   7  -14.4  0.183 -9.000 -9.000 -999.  188.     38.3  0.2160  0.72  1.00  2.10 276.0  15.0 285.4  2.0    0  0.00   82. 1007.     3 NAD-SFC NoSubs
 7 11   9 313   8    7.2  0.303  0.265  0.005   93.  399.   -347.1  0.2160  0.72  0.39  3.10 281.0  15.0 284.8  2.0    0  0.00   84. 1008.     3 NAD-SFC NoSubs
 7 11   9 313   9   54.1  0.332  0.707  0.005  234.  460.    -61.0  0.2160  0.72  0.26  3.10 294.0  15.0 285.6  2.0    0  0.00   74. 1008.     3 NAD-SFC NoSubs
 7 11   9 313  10   92.4  0.159  0.987  0.005  373.  177.     -3.9  0.2160  0.72  0.22  1.00 292.0  15.0 287.2  2.0    0  0.00   67. 1007.     3 NAD-SFC NoSubs
 7 11   9 313  11  117.3 -9.000 -9.000 -9.000  534. -999. -99999.0  0.2235  0.72  0.21  0.00   0.0  15.0 288.5  2.0    0  0.00   61. 1007.     3 NAD-SFC NoSubs
 7 11   9 313  12  127.8 -9.000 -9.000 -9.000  683. -999. -99999.0  0.2235  0.72  0.20  0.00   0.0  15.0 289.6  2.0    0  0.00   56. 1006.     3 NAD-SFC NoSubs
 7 11   9 313  13  123.7 -9.000 -9.000 -9.000  868. -999. -99999.0  0.2235  0.72  0.21  0.00   0.0  15.0 290.6  2.0    0  0.00   52. 1005.     3 NAD-SFC NoSubs
 7 11   9 313  14  104.1  0.113  1.420  0.008  985.   91.     -1.2  0.2930  0.72  0.22  0.50 332.0  15.0 291.4  2.0    0  0.00   49. 1004.     2 NAD-SFC NoSubs
 7 11   9 313  15   71.1  0.214  1.267  0.008 1025.  238.    -12.4  0.2930  0.72  0.24  1.50 332.0  15.0 291.8  2.0    0  0.00   47. 1004.     2 NAD-SFC NoSubs
 7 11   9 313  16   26.4  0.194  0.916  0.008 1040.  205.    -24.6  0.2930  0.72  0.32  1.50 340.0  15.0 291.8  2.0    0  0.00   47. 1003.     2 NAD-SFC NoSubs
 7 11   9 313  17   -7.4  0.140 -9.000 -9.000 -999.  127.     33.3  0.2930  0.72  0.58  1.50 356.0  15.0 291.2  2.0    0  0.00   51. 1003.     2 NAD-SFC NoSubs
 7 11   9 313  18   -8.3  0.140 -9.000 -9.000 -999.  126.     29.5  0.2940  0.72  1.00  1.50  11.0  15.0 290.2  2.0    0  0.00   55. 1004.     2 NAD-SFC NoSubs
 7 11   9 313  19   -1.6  0.084 -9.000 -9.000 -999.   58.     32.0  0.2720  0.72  1.00  0.50 311.0  15.0 289.2  2.0    0  0.00   61. 1005.     2 NAD-SFC NoSubs
 7 11   9 313  20  -20.4  0.218 -9.000 -9.000 -999.  245.     45.7  0.1750  0.72  1.00  2.60 260.0  15.0 287.9  2.0    0  0.00   68. 1006.     3 NAD-SFC NoSubs
 7 11   9 313  21  -27.8  0.263 -9.000 -9.000 -999.  324.     58.9  0.1750  0.72  1.00  3.10 268.0  15.0 286.5  2.0    0  0.00   77. 1006.     3 NAD-SFC NoSubs
 7 11   9 313  22  -34.5  0.325 -9.000 -9.000 -999.  445.     89.6  0.2160  0.72  1.00  3.60 280.0  15.0 285.4  2.0    0  0.00   86. 1007.     3 NAD-SFC NoSubs
 7 11   9 313  23  -34.6  0.325 -9.000 -9.000 -999.  445.     89.3  0.2160  0.72  1.00  3.60 287.0  15.0 284.6  2.0    0  0.00   93. 1007.     3 NAD-SFC NoSubs
 7 11   9 313  24  -35.6  0.347 -9.000 -9.000 -999.  490.    105.3  0.2720  0.72  1.00  3.60 300.0  15.0 284.0  2.0    0  0.00   98. 1007.     4 NAD-SFC NoSubs
 7 11  10 314   1  -30.5  0.297 -9.000 -9.000 -999.  389.     76.9  0.2720  0.72  1.00  3.10 302.0  15.0 283.6  2.0    0  0.00   99. 1007.     4 NAD-SFC NoSubs
 7 11  10 314   2  -22.1  0.231 -9.000 -9.000 -999.  268.     49.9  0.2160  0.72  1.00  2.60 295.0  15.0 283.2  2.0    0  0.00  100. 1007.     4 NAD-SFC NoSubs
 7 11  10 314   3   -7.1  0.129 -9.000 -9.000 -999.  116.     26.9  0.2160  0.72  1.00  1.50 288.0  15.0 282.8  2.0    0  0.00  100. 1007.     4 NAD-SFC NoSubs
 7 11  10 314   4   -7.9  0.137 -9.000 -9.000 -999.  121.     29.2  0.2720  0.72  1.00  1.50 308.0  15.0 282.8  2.0    0  0.00  100. 1007.     4 NAD-SFC NoSubs
 7 11  10 314   5   -3.8  0.100 -9.000 -9.000 -999.   76.     23.3  0.2720  0.72  1.00  1.00 304.0  15.0 283.0  2.0    0  0.00   98. 1007.     4 NAD-SFC NoSubs
 7 11  10 314   6   -3.5  0.096 -9.000 -9.000 -999.   71.     22.4  0.2160  0.72  1.00  1.00 296.0  15.0 283.4  2.0    0  0.00   96. 1008.     4 NAD-SFC NoSubs
 7 11  10 314   7   -3.8  0.100 -9.000 -9.000 -999.   76.     23.3  0.2720  0.72  1.00  1.00 313.0  15.0 283.6  2.0    0  0.00   95. 1008.     4 NAD-SFC NoSubs
 7 11  10 314   8    6.0  0.124  0.202  0.006   50.  104.    -28.5  0.2720  0.72  0.39  1.00 316.0  15.0 283.8  2.0    0  0.00   94. 1008.     3 NAD-SFC NoSubs
 7 11  10 314   9   52.5  0.158  0.667  0.005  203.  151.     -6.8  0.2930  0.72  0.27  1.00 333.0  15.0 283.8  2.0    0  0.00   94. 1008.     3 NAD-SFC NoSubs
 7 11  10 314  10   90.4  0.111  1.020  0.005  423.   89.     -1.4  0.2930  0.72  0.22  0.50 334.0  15.0 284.0  2.0    0  0.00   93. 1008.     3 NAD-SFC NoSubs
 7 11  10 314  11  114.4 -9.000 -9.000 -9.000  627. -999. -99999.0  0.2235  0.72  0.21  0.00   0.0  15.0 284.6  2.0    0  0.00   91. 1008.     2 NAD-SFC NoSubs
 7 11  10 314  12  125.1 -9.000 -9.000 -9.000  838. -999. -99999.0  0.2235  0.72  0.20  0.00   0.0  15.0 286.2  2.0    0  0.00   81. 1007.     2 NAD-SFC NoSubs
 7 11  10 314  13  121.0 -9.000 -9.000 -9.000  988. -999. -99999.0  0.2235  0.72  0.21  0.00   0.0  15.0 287.8  2.0    0  0.00   70. 1006.     2 NAD-SFC NoSubs
 7 11  10 314  14  102.2 -9.000 -9.000 -9.000 1045. -999. -99999.0  0.2235  0.72  0.22  0.00   0.0  15.0 288.8  2.0    0  0.00   63. 1005.     2 NAD-SFC NoSubs
 7 11  10 314  15   69.2  0.097  1.279  0.009 1082.   72.     -1.2  0.1810  0.72  0.24  0.50 156.0  15.0 289.2  2.0    0  0.00   60. 1004.     2 NAD-SFC NoSubs
 7 11  10 314  16   24.7  0.177  0.911  0.009 1095.  178.    -19.9  0.1970  0.72  0.33  1.50 140.0  15.0 289.4  2.0    0  0.00   59. 1004.     2 NAD-SFC NoSubs
 7 11  10 314  17  -12.6  0.180 -9.000 -9.000 -999.  183.     41.3  0.1970  0.72  0.58  2.10 135.0  15.0 288.9  2.0    0  0.00   64. 1003.     2 NAD-SFC NoSubs
 7 11  10 314  18  -28.5  0.265 -9.000 -9.000 -999.  328.     58.6  0.1810  0.72  1.00  3.10 151.0  15.0 287.8  2.0    0  0.00   71. 1003.     2 NAD-SFC NoSubs
 7 11  10 314  19  -33.5  0.311 -9.000 -9.000 -999.  415.     79.9  0.1810  0.72  1.00  3.60 164.0  15.0 286.8  2.0    0  0.00   78. 1003.     2 NAD-SFC NoSubs
 7 11  10 314  20  -33.6  0.311 -9.000 -9.000 -999.  415.     79.8  0.1810  0.72  1.00  3.60 158.0  15.0 286.2  2.0    0  0.00   82. 1003.     2 NAD-SFC NoSubs
 7 11  10 314  21  -28.7  0.265 -9.000 -9.000 -999.  329.     58.2  0.1810  0.72  1.00  3.10 156.0  15.0 285.9  2.0    0  0.00   83. 1003.     2 NAD-SFC NoSubs
 7 11  10 314  22  -34.4  0.317 -9.000 -9.000 -999.  429.     83.2  0.1970  0.72  1.00  3.60 146.0  15.0 285.8  2.0    0  0.00   81. 1003.     2 NAD-SFC NoSubs
 7 11  10 314  23  -34.4  0.317 -9.000 -9.000 -999.  429.     83.2  0.1970  0.72  1.00  3.60 144.0  15.0 285.8  2.0    0  0.00   78. 1003.     2 NAD-SFC NoSubs
 7 11  10 314  24  -29.4  0.271 -9.000 -9.000 -999.  340.     60.7  0.1970  0.72  1.00  3.10 138.0  15.0 285.8  2.0    0  0.00   75. 1003.     2 NAD-SFC NoSubs
 7 11  11 315   1  -13.9  0.178 -9.000 -9.000 -999.  184.     36.4  0.1970  0.72  1.00  2.10 141.0  15.0 285.8  2.0    0  0.00   73. 1003.     2 NAD-SFC NoSubs
 7 11  11 315   2   -6.9  0.126 -9.000 -9.000 -999.  108.     25.8  0.1970  0.72  1.00  1.50 142.0  15.0 285.8  2.0    0  0.00   72. 1003.     3 NAD-SFC NoSubs
 7 11  11 315   3   -3.4  0.094 -9.000 -9.000 -999.   69.     21.8  0.1810  0.72  1.00  1.00 151.0  15.0 285.8  2.0    0  0.00   73. 1004.     3 NAD-SFC NoSubs
 7 11  11 315   4   -3.4  0.094 -9.000 -9.000 -999.   69.     21.8  0.1810  0.72  1.00  1.00 171.0  15.0 285.8  2.0    0  0.00   74. 1004.     3 NAD-SFC NoSubs
 7 11  11 315   5   -3.4  0.094 -9.000 -9.000 -999.   69.     21.9  0.1900  0.72  1.00  1.00 188.0  15.0 285.8  2.0    0  0.00   78. 1004.     4 NAD-SFC NoSubs
 7 11  11 315   6   -1.3  0.077 -9.000 -9.000 -999.   51.     30.2  0.1900  0.72  1.00  0.50 181.0  15.0 285.6  2.0    0  0.00   82. 1004.     5 NAD-SFC NoSubs
 7 11  11 315   7   -0.8  0.061 -9.000 -9.000 -999.   36.     25.3  0.1810  0.72  1.00  0.50 177.0  15.0 285.5  2.0    0  0.00   86. 1005.    10 NAD-SFC NoSubs
 7 11  11 315   8    4.3 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.40  0.00   0.0  15.0 285.2  2.0    0  0.00   88. 1005.    10 NAD-SFC NoSubs
 7 11  11 315   9    9.4 -9.000 -9.000 -9.000   81. -999. -99999.0  0.2235  0.72  0.27  0.00   0.0  15.0 285.5  2.0    0  0.00   89. 1005.    10 NAD-SFC NoSubs
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7	11	11	315	10	19.1	-9.000	-9.000	-9.000	206.	-999.	-99999.0	0.2235	0.72	0.22	0.00	0.0	15.0	286.2	2.0	0	0.00	83.	1005.	10	NAD-SFC NoSubs
7	11	11	315	11	93.2	-9.000	-9.000	-9.000	468.	-999.	-99999.0	0.2235	0.72	0.21	0.00	0.0	15.0	287.2	2.0	0	0.00	76.	1005.	7	NAD-SFC NoSubs
7	11	11	315	12	84.4	0.103	1.123	0.005	602.	79.	-1.2	0.2160	0.72	0.20	0.50	290.0	15.0	288.2	2.0	0	0.00	71.	1004.	8	NAD-SFC NoSubs
7	11	11	315	13	27.5	0.182	0.790	0.005	640.	186.	-19.6	0.2160	0.72	0.21	1.50	286.0	15.0	288.8	2.0	0	0.00	70.	1004.	10	NAD-SFC NoSubs
7	11	11	315	14	22.8	0.316	0.752	0.005	669.	427.	-124.5	0.2160	0.72	0.22	3.10	297.0	15.0	288.8	2.0	0	0.00	72.	1004.	10	NAD-SFC NoSubs
7	11	11	315	15	14.5	0.326	0.652	0.005	685.	447.	-215.0	0.2720	0.72	0.24	3.10	304.0	15.0	288.8	2.0	0	0.00	78.	1004.	10	NAD-SFC NoSubs
7	11	11	315	16	26.9	0.276	0.815	0.005	718.	349.	-69.6	0.2160	0.72	0.33	2.60	296.0	15.0	290.4	2.0	0	0.00	78.	1003.	5	NAD-SFC NoSubs
7	11	11	315	17	-5.0	0.131	-9.000	-9.000	-999.	130.	40.9	0.2160	0.72	0.59	1.50	278.0	15.0	290.0	2.0	0	0.00	77.	1003.	10	NAD-SFC NoSubs
7	11	11	315	18	-4.8	0.124	-9.000	-9.000	-999.	104.	35.2	0.1750	0.72	1.00	1.50	251.0	15.0	289.6	2.0	0	0.00	77.	1004.	10	NAD-SFC NoSubs
7	11	11	315	19	-6.1	0.125	-9.000	-9.000	-999.	107.	29.0	0.1950	0.72	1.00	1.50	226.0	15.0	289.2	2.0	0	0.00	77.	1005.	7	NAD-SFC NoSubs
7	11	11	315	20	-6.5	0.122	-9.000	-9.000	-999.	103.	25.4	0.1750	0.72	1.00	1.50	266.0	15.0	288.8	2.0	0	0.00	77.	1005.	4	NAD-SFC NoSubs
7	11	11	315	21	-13.1	0.173	-9.000	-9.000	-999.	173.	35.6	0.1750	0.72	1.00	2.10	268.0	15.0	288.0	2.0	0	0.00	76.	1005.	3	NAD-SFC NoSubs
7	11	11	315	22	-20.4	0.218	-9.000	-9.000	-999.	245.	45.6	0.1750	0.72	1.00	2.60	261.0	15.0	287.2	2.0	0	0.00	75.	1006.	3	NAD-SFC NoSubs
7	11	11	315	23	-13.7	0.178	-9.000	-9.000	-999.	181.	36.9	0.1950	0.72	1.00	2.10	226.0	15.0	286.4	2.0	0	0.00	75.	1006.	3	NAD-SFC NoSubs
7	11	11	315	24	-21.4	0.224	-9.000	-9.000	-999.	255.	47.3	0.1950	0.72	1.00	2.60	216.0	15.0	285.8	2.0	0	0.00	74.	1007.	3	NAD-SFC NoSubs
7	11	12	316	1	-28.7	0.271	-9.000	-9.000	-999.	338.	62.0	0.1950	0.72	1.00	3.10	237.0	15.0	285.2	2.0	0	0.00	73.	1007.	3	NAD-SFC NoSubs
7	11	12	316	2	-28.0	0.263	-9.000	-9.000	-999.	324.	58.5	0.1750	0.72	1.00	3.10	250.0	15.0	284.6	2.0	0	0.00	74.	1007.	3	NAD-SFC NoSubs
7	11	12	316	3	-28.1	0.263	-9.000	-9.000	-999.	324.	58.4	0.1750	0.72	1.00	3.10	267.0	15.0	284.0	2.0	0	0.00	76.	1007.	3	NAD-SFC NoSubs
7	11	12	316	4	-29.7	0.278	-9.000	-9.000	-999.	352.	64.9	0.2160	0.72	1.00	3.10	274.0	15.0	283.4	2.0	0	0.00	77.	1008.	3	NAD-SFC NoSubs
7	11	12	316	5	-29.8	0.278	-9.000	-9.000	-999.	352.	64.9	0.2160	0.72	1.00	3.10	272.0	15.0	283.0	2.0	0	0.00	77.	1008.	3	NAD-SFC NoSubs
7	11	12	316	6	-33.1	0.308	-9.000	-9.000	-999.	410.	79.5	0.1750	0.72	1.00	3.60	267.0	15.0	282.6	2.0	0	0.00	76.	1009.	3	NAD-SFC NoSubs
7	11	12	316	7	-33.1	0.308	-9.000	-9.000	-999.	410.	79.4	0.1750	0.72	1.00	3.60	266.0	15.0	282.2	2.0	0	0.00	76.	1010.	3	NAD-SFC NoSubs
7	11	12	316	8	3.8	0.285	0.151	0.009	32.	365.	-548.3	0.1750	0.72	0.40	3.10	269.0	15.0	282.4	2.0	0	0.00	76.	1010.	3	NAD-SFC NoSubs
7	11	12	316	9	49.0	0.288	0.595	0.009	154.	370.	-43.8	0.2160	0.72	0.27	2.60	289.0	15.0	284.0	2.0	0	0.00	71.	1011.	2	NAD-SFC NoSubs
7	11	12	316	10	87.5	0.205	0.894	0.009	294.	226.	-8.9	0.2160	0.72	0.23	1.50	284.0	15.0	285.6	2.0	0	0.00	67.	1011.	2	NAD-SFC NoSubs
7	11	12	316	11	112.9	0.211	1.097	0.008	421.	232.	-7.5	0.2160	0.72	0.21	1.50	274.0	15.0	287.6	2.0	0	0.00	60.	1011.	2	NAD-SFC NoSubs
7	11	12	316	12	123.6	0.165	1.225	0.007	535.	161.	-3.3	0.2160	0.72	0.21	1.00	276.0	15.0	288.9	2.0	0	0.00	58.	1010.	2	NAD-SFC NoSubs
7	11	12	316	13	119.5	0.108	1.277	0.006	627.	85.	-1.0	0.2160	0.72	0.21	0.50	278.0	15.0	289.9	2.0	0	0.00	56.	1009.	2	NAD-SFC NoSubs
7	11	12	316	14	100.8	0.105	1.254	0.006	705.	82.	-1.0	0.2160	0.72	0.22	0.50	285.0	15.0	290.8	2.0	0	0.00	55.	1009.	2	NAD-SFC NoSubs
7	11	12	316	15	68.0	0.100	1.128	0.006	760.	76.	-1.3	0.2160	0.72	0.25	0.50	281.0	15.0	291.2	2.0	0	0.00	54.	1008.	2	NAD-SFC NoSubs
7	11	12	316	16	23.7	0.142	0.800	0.005	778.	129.	-10.9	0.2720	0.72	0.33	1.00	302.0	15.0	291.2	2.0	0	0.00	55.	1008.	2	NAD-SFC NoSubs
7	11	12	316	17	-3.5	0.097	-9.000	-9.000	-999.	73.	23.5	0.2720	0.72	0.59	1.00	321.0	15.0	290.8	2.0	0	0.00	59.	1008.	2	NAD-SFC NoSubs
7	11	12	316	18	-1.6	0.083	-9.000	-9.000	-999.	58.	31.9	0.2720	0.72	1.00	0.50	328.0	15.0	289.8	2.0	0	0.00	64.	1008.	2	NAD-SFC NoSubs
7	11	12	316	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	288.8	2.0	0	0.00	70.	1008.	2	NAD-SFC NoSubs
7	11	12	316	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	287.8	2.0	0	0.00	75.	1008.	2	NAD-SFC NoSubs
7	11	12	316	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	286.8	2.0	0	0.00	80.	1008.	2	NAD-SFC NoSubs
7	11	12	316	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	286.1	2.0	0	0.00	83.	1008.	2	NAD-SFC NoSubs
7	11	12	316	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	285.5	2.0	0	0.00	85.	1009.	2	NAD-SFC NoSubs
7	11	12	316	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	285.1	2.0	0	0.00	87.	1009.	2	NAD-SFC NoSubs
7	11	13	317	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	284.9	2.0	0	0.00	87.	1009.	2	NAD-SFC NoSubs
7	11	13	317	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	284.9	2.0	0	0.00	86.	1009.	2	NAD-SFC NoSubs
7	11	13	317	3	-3.7	0.097	-9.000	-9.000	-999.	73.	22.4	0.2160	0.72	1.00	1.00	275.0	15.0	285.1	2.0	0	0.00	82.	1009.	2	NAD-SFC NoSubs
7	11	13	317	4	-3.5	0.094	-9.000	-9.000	-999.	69.	21.7	0.1750	0.72	1.00	1.00	251.0	15.0	285.2	2.0	0	0.00	77.	1009.	2	NAD-SFC NoSubs
7	11	13	317	5	-3.6	0.096	-9.000	-9.000	-999.	71.	22.1	0.1950	0.72	1.00	1.00	218.0	15.0	285.6	2.0	0	0.00	73.	1010.	2	NAD-SFC NoSubs
7	11	13	317	6	-1.5	0.081	-9.000	-9.000	-999.	55.	31.4	0.1950	0.72	1.00	0.50	224.0	15.0	285.8	2.0	0	0.00	71.	1010.	2	NAD-SFC NoSubs
7	11	13	317	7	-1.5	0.080	-9.000	-9.000	-999.	54.	31.2	0.1750	0.72	1.00	0.50	243.0	15.0	285.5	2.0	0	0.00	71.	1010.	2	NAD-SFC NoSubs
7	11	13	317	8	1.7	0.061	0.101	0.012	21.	36.	-11.8	0.1750	0.72	0.41	0.50	264.0	15.0	285.2	2.0	0	0.00	72.	1010.	2	NAD-SFC NoSubs
7	11	13	317	9	48.7	0.154	0.590	0.010	152.	145.	-6.8	0.2720	0.72	0.27	1.00	313.0	15.0	287.2	2.0	0	0.00	56.	1010.	2	NAD-SFC NoSubs
7	11	13	317	10	87.2	0.215	0.900	0.010	301.	240.	-10.3	0.2720	0.72	0.23	1.50	319.0	15.0	288.6	2.0	0	0.00	50.	1010.	2	NAD-SFC NoSubs
7	11	13	317	11	112.5	0.171	1.103	0.010	430.	170.	-4.0	0.2720	0.72	0.21	1.00	323.0	15.0	290.1	2.0	0	0.00	42.	1010.	2	NAD-SFC NoSubs
7	11	13	317	12	123.3	0.114	1.226	0.010	538.	93.	-1.1	0.2720	0.72	0.21	0.50	300.0	15.0	291.1	2.0	0	0.00	40.	1009.	2	NAD-SFC NoSubs
7	11	13	317	13	119.2	0.108	1.275	0.010	626.	85.	-1.0	0.2160	0.72	0.21	0.50	293.0	15.0	292.0	2.0	0	0.00	40.	1008.	2	NAD-SFC NoSubs
7	11	13	317	14	100.5	0.105	1.246	0.009	691.	82.	-1.0	0.2160	0.72	0.22	0.50	291.0	15.0	292.8	2.0	0	0.00	40.	1007.	2	NAD-SFC NoSubs
7	11	13	317	15	67.8	0.161	1.114	0.009	732.	155.	-5.5	0.2720	0.72	0.25	1.00	305.0	15.0	293.1	2.0	0	0.00	40.	1006.	2	NAD-SFC NoSubs
7	11	13	317	16	23.6	0.188	0.789	0.009	746.	196.	-25.4	0.2720	0.72	0.33	1.50	324.0	15.0	293.1	2.0	0	0.00	42.	1006.	2	NAD-SFC NoSubs
7	11	13	317	17	-7.5	0.140	-9.000	-9.000	-999.	126.	33.1	0.2930	0.72	0.60	1.50	340.0	15.0	292.6	2.0	0	0.00	46.	1006.	3	NAD-SFC NoSubs
7	11	13	317	18	-1.6	0.083	-9.000	-9.000	-999.	58.	31.7	0.2940	0.72	1.00	0.50	7.0	15.0	291.6	2.0	0	0.00	51.	1006.	3	NAD-SFC NoSubs
7	11	13	317	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	290.4	2.0	0	0.00	56.	1006.	3	NAD-SFC NoSubs
7	11	13	317	20	-1.4	0.079	-9.000	-9.000	-999.	53.	30.8	0.1810	0.72	1.00	0.50	157.0	15.0	289.4	2.0	0	0.00	61.	1006.	3	NAD-SFC NoSubs
7	11	13	317	21	-3.4	0.094	-9.000	-9.000	-999.	69.	21.8	0.1810	0.72	1.00	1.00	159.0	15.0	288.6	2.0	0	0.00	65.	1006.	3	NAD-SFC NoSubs
7	11	13	317	22	-3.4	0.094	-9.000	-9.000	-999.	69.	21.8	0.1810	0.72	1.00	1.00	162.0	15.0	287.9	2.0	0	0.00	68.	1006.	3	NAD-SFC NoSubs
7	11	13	317	23	-1.4	0.079	-9.000	-9.000	-999.	53.	30.9	0.1810	0.72	1.00	0.50	164.0	15.0	287.2	2.0	0	0.00	71.	1006.	3	NAD-SFC NoSubs
7	11	13	317	24	-1.4	0.079	-9.000	-9.000	-999.	53.	30.9	0.1810	0.72	1.00	0.50	158.0	15.0	286.8	2.0	0	0.00	73.	1006.	3	NAD-SFC NoSubs
7	11	14	318	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	286.4	2.0	0	0.00	75.	1006.	3	NAD-SFC NoSubs
7	11	14	318	2	-1.5	0.081	-9.000	-9.000	-999.	55.	31.3	0.2160	0.72	1.00	0.50	282.0	15.0	286.2	2.0	0	0.00	78.	1006.	3	NAD-SFC NoSubs
7	11	14	318	3	-1.4	0.079	-9.000	-9.000	-999.	53.	30.9	0.1750	0.72	1.00	0.50	257.0	15.0	285.9	2.0	0	0.00	82.	1006.	3	NAD-SFC NoSubs
7	11	14	318	4	-3.4	0.093	-9.000	-9.000	-999.	68.	21.7	0.1750	0.72	1.00	1.00	263.0	15.0	285.8	2.0	0	0.00	86.	1006.	3	NAD-SFC NoSubs
7	11	14	318	5	-3.6	0.097	-9.000	-9.000	-999.	72.	22.4	0.2160	0.72	1.00	1.00	270.0	15.0	285.6	2.0	0	0.00	90.	1007.	3	NAD-SFC NoSubs
7	11	14	318	6	-6.7	0.123	-9.000	-9.000	-999.	103.	24.6	0.1750	0.72	1.00	1.50	268.0	15.0	285.2	2.0	0	0.00	93.	1007.	2	NAD-SFC NoSubs
7	11	14	318	7	-6.7	0.123	-9.000	-9.000	-999.	103.	24.6	0.1750	0.72	1.00	1.50	262.0	15.0	285.0	2.0	0	0.00	95.	1007.	2	NAD-SFC NoSubs
7	11	14	318	8	0.8	0.192	0.062	0.011	11.	201.	-828.9	0.1750	0.72	0.41	2.10	255.0	15.0	285.0	2.0	0	0.00	93.	1007.	2	NAD-SFC NoSubs
7	11	14	318	9	47.5	0.192	0.595	0.011	159.	202.	-13.4	0.2160	0.72	0.27	1.50	287.0	15.0	286.8	2.0	0	0.00	80.	1007.	2	NAD-SFC NoSubs
7	11	14	318	10	86.0	0.157	0.916	0.012	320.	150.	-4.1	0.2160	0.72	0.23	1.00	282.0	15.0	288.4	2.0	0	0.00	73.	1007.	2	NAD-SFC NoSubs
7	11	14	318	11	111.5	0.163	1.112	0.013	443.	157.	-3.5	0.2160	0.72	0.21	1.00	272.0	15.0	290.2	2.0	0	0.00	66.	1007.	2	NAD-SFC NoSubs
7	11	14	318	12	122.5	0.103	1.225	0.012	539.	80.	-1.0	0.1750	0.72	0.21	0.50	269.0	15.0	292.0	2.0	0	0.00	59.	1006.	2	NAD-SFC NoSubs
7	11	14	318	13	118.7	0.113	1.269	0.012	618.	92.	-1.1	0.2720	0.72	0.21	0.50	304.0	15.0	293.2	2.0	0	0.00	55.	1005.	2	NAD-SFC NoSubs
7	11	14	318	14	100.1	0.171	1.235	0.011	674.	170.	-4.5	0.2930	0.72	0.22	1.00	330.0	15.0	294.1	2.0	0	0.00	52.	1004.	2	NAD-SFC NoSubs

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 7 11 14 318 15   67.4  0.213  1.098  0.011  704.  235.    -12.8  0.2930  0.72  0.25  1.50  358.0  15.0  294.5  2.0  0  0.00  52.  1004.  2 NAD-SFC NoSubs
 7 11 14 318 16   23.4  0.191  0.776  0.010  714.  201.    -26.8  0.2940  0.72  0.34  1.50   13.0  15.0  294.5  2.0  0  0.00  56.  1004.  2 NAD-SFC NoSubs
 7 11 14 318 17  -15.4  0.201 -9.000 -9.000 -999.  217.     47.5  0.2940  0.72  0.61  2.10   22.0  15.0  293.8  2.0  0  0.00  60.  1004.  2 NAD-SFC NoSubs
 7 11 14 318 18   -8.3  0.140 -9.000 -9.000 -999.  126.     29.6  0.2940  0.72  1.00  1.50   21.0  15.0  292.6  2.0  0  0.00  65.  1004.  2 NAD-SFC NoSubs
 7 11 14 318 19   -1.7  0.084 -9.000 -9.000 -999.   59.     32.0  0.2930  0.72  1.00  0.50  344.0  15.0  291.4  2.0  0  0.00  72.  1005.  2 NAD-SFC NoSubs
 7 11 14 318 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  290.2  2.0  0  0.00  78.  1005.  2 NAD-SFC NoSubs
 7 11 14 318 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  289.4  2.0  0  0.00  83.  1005.  2 NAD-SFC NoSubs
 7 11 14 318 22   -1.6  0.083 -9.000 -9.000 -999.   57.     31.8  0.2470  0.72  1.00  0.50   31.0  15.0  288.8  2.0  0  0.00  86.  1006.  2 NAD-SFC NoSubs
 7 11 14 318 23   -4.1  0.102 -9.000 -9.000 -999.   79.     23.7  0.2940  0.72  1.00  1.00   11.0  15.0  288.2  2.0  0  0.00  89.  1006.  2 NAD-SFC NoSubs
 7 11 14 318 24  -16.7  0.200 -9.000 -9.000 -999.  214.     42.7  0.2930  0.72  1.00  2.10  348.0  15.0  287.9  2.0  0  0.00  91.  1006.  2 NAD-SFC NoSubs
 7 11 15 319  1  -16.7  0.200 -9.000 -9.000 -999.  214.     42.7  0.2930  0.72  1.00  2.10  334.0  15.0  287.8  2.0  0  0.00  91.  1006.  2 NAD-SFC NoSubs
 7 11 15 319  2  -16.1  0.195 -9.000 -9.000 -999.  207.     41.4  0.2720  0.72  1.00  2.10  328.0  15.0  287.8  2.0  0  0.00  89.  1006.  2 NAD-SFC NoSubs
 7 11 15 319  3   -8.1  0.137 -9.000 -9.000 -999.  122.     28.5  0.2720  0.72  1.00  1.50  322.0  15.0  287.8  2.0  0  0.00  87.  1006.  2 NAD-SFC NoSubs
 7 11 15 319  4   -3.7  0.097 -9.000 -9.000 -999.   73.     22.4  0.2160  0.72  1.00  1.00  281.0  15.0  287.6  2.0  0  0.00  84.  1006.  2 NAD-SFC NoSubs
 7 11 15 319  5   -1.4  0.079 -9.000 -9.000 -999.   54.     31.1  0.1750  0.72  1.00  0.50  263.0  15.0  287.2  2.0  0  0.00  83.  1006.  2 NAD-SFC NoSubs
 7 11 15 319  6   -1.5  0.081 -9.000 -9.000 -999.   56.     31.6  0.2160  0.72  1.00  0.50  277.0  15.0  287.1  2.0  0  0.00  83.  1006.  2 NAD-SFC NoSubs
 7 11 15 319  7   -1.5  0.082 -9.000 -9.000 -999.   56.     31.6  0.2160  0.72  1.00  0.50  295.0  15.0  286.9  2.0  0  0.00  82.  1007.  2 NAD-SFC NoSubs
 7 11 15 319  8    0.3 -9.000 -9.000 -9.000    8. -999. -99999.0  0.2235  0.72  0.42  0.00    0.0  15.0  286.8  2.0  0  0.00  82.  1007.  2 NAD-SFC NoSubs
 7 11 15 319  9   46.4  0.095  0.545  0.012  125.   70.     -1.7  0.2160  0.72  0.28  0.50  276.0  15.0  286.9  2.0  0  0.00  80.  1007.  2 NAD-SFC NoSubs
 7 11 15 319 10   85.2  0.165  0.827  0.010  238.  161.     -4.7  0.2720  0.72  0.23  1.00  304.0  15.0  289.2  2.0  0  0.00  63.  1007.  2 NAD-SFC NoSubs
 7 11 15 319 11  110.7  0.107  1.053  0.009  379.   84.     -1.0  0.2160  0.72  0.21  0.50  298.0  15.0  291.2  2.0  0  0.00  57.  1007.  2 NAD-SFC NoSubs
 7 11 15 319 12  121.9 -9.000 -9.000 -9.000  489. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  293.0  2.0  0  0.00  53.  1006.  2 NAD-SFC NoSubs
 7 11 15 319 13  118.2  0.164  1.239  0.007  577.  159.     -3.3  0.2160  0.72  0.21  1.00  297.0  15.0  294.4  2.0  0  0.00  47.  1005.  2 NAD-SFC NoSubs
 7 11 15 319 14   99.3  0.275  1.212  0.007  642.  346.    -18.7  0.2720  0.72  0.22  2.10  324.0  15.0  294.5  2.0  0  0.00  46.  1004.  2 NAD-SFC NoSubs
 7 11 15 319 15   66.2  0.355  1.086  0.006  692.  507.    -60.3  0.2720  0.72  0.25  3.10  329.0  15.0  293.8  2.0  0  0.00  52.  1004.  2 NAD-SFC NoSubs
 7 11 15 319 16   22.1  0.246  0.760  0.006  711.  299.    -59.9  0.2930  0.72  0.34  2.10  336.0  15.0  293.2  2.0  0  0.00  55.  1004.  2 NAD-SFC NoSubs
 7 11 15 319 17   -7.7  0.140 -9.000 -9.000 -999.  132.     31.8  0.2930  0.72  0.61  1.50  348.0  15.0  292.6  2.0  0  0.00  57.  1003.  2 NAD-SFC NoSubs
 7 11 15 319 18   -1.7  0.084 -9.000 -9.000 -999.   59.     32.0  0.2940  0.72  1.00  0.50    9.0  15.0  291.5  2.0  0  0.00  61.  1004.  2 NAD-SFC NoSubs
 7 11 15 319 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  290.2  2.0  0  0.00  66.  1004.  2 NAD-SFC NoSubs
 7 11 15 319 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  289.2  2.0  0  0.00  71.  1004.  2 NAD-SFC NoSubs
 7 11 15 319 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  288.4  2.0  0  0.00  75.  1005.  2 NAD-SFC NoSubs
 7 11 15 319 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  287.8  2.0  0  0.00  78.  1005.  2 NAD-SFC NoSubs
 7 11 15 319 23   -1.5  0.081 -9.000 -9.000 -999.   56.     31.6  0.2160  0.72  1.00  0.50  286.0  15.0  287.2  2.0  0  0.00  79.  1006.  2 NAD-SFC NoSubs
 7 11 15 319 24   -8.1  0.137 -9.000 -9.000 -999.  122.     28.5  0.2720  0.72  1.00  1.50  303.0  15.0  286.8  2.0  0  0.00  79.  1006.  2 NAD-SFC NoSubs
 7 11 16 320  1  -16.1  0.195 -9.000 -9.000 -999.  207.     41.3  0.2720  0.72  1.00  2.10  303.0  15.0  286.5  2.0  0  0.00  79.  1006.  2 NAD-SFC NoSubs
 7 11 16 320  2  -14.5  0.183 -9.000 -9.000 -999.  188.     37.7  0.2160  0.72  1.00  2.10  298.0  15.0  286.1  2.0  0  0.00  80.  1006.  2 NAD-SFC NoSubs
 7 11 16 320  3   -7.3  0.129 -9.000 -9.000 -999.  112.     26.3  0.2160  0.72  1.00  1.50  297.0  15.0  285.8  2.0  0  0.00  82.  1006.  2 NAD-SFC NoSubs
 7 11 16 320  4   -3.7  0.097 -9.000 -9.000 -999.   73.     22.4  0.2160  0.72  1.00  1.00  299.0  15.0  285.5  2.0  0  0.00  85.  1007.  2 NAD-SFC NoSubs
 7 11 16 320  5   -1.5  0.082 -9.000 -9.000 -999.   56.     31.6  0.2160  0.72  1.00  0.50  287.0  15.0  285.2  2.0  0  0.00  87.  1007.  2 NAD-SFC NoSubs
 7 11 16 320  6   -1.5  0.082 -9.000 -9.000 -999.   56.     31.7  0.2160  0.72  1.00  0.50  296.0  15.0  284.9  2.0  0  0.00  90.  1007.  2 NAD-SFC NoSubs
 7 11 16 320  7   -1.7  0.084 -9.000 -9.000 -999.   59.     32.1  0.2720  0.72  1.00  0.50  319.0  15.0  284.5  2.0  0  0.00  93.  1007.  2 NAD-SFC NoSubs
 7 11 16 320  8   21.6 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.42  0.00    0.0  15.0  284.2  2.0  0  0.00  95.  1007.  2 NAD-SFC NoSubs
 7 11 16 320  9   44.8  0.101  0.597  0.012  170.   77.     -2.1  0.2930  0.72  0.28  0.50  340.0  15.0  284.9  2.0  0  0.00  95.  1007.  2 NAD-SFC NoSubs
 7 11 16 320 10   83.2  0.167  0.853  0.010  268.  164.     -5.1  0.2930  0.72  0.23  1.00  354.0  15.0  286.2  2.0  0  0.00  91.  1007.  2 NAD-SFC NoSubs
 7 11 16 320 11  108.6  0.114  1.032  0.009  364.   93.     -1.2  0.2940  0.72  0.21  0.50    6.0  15.0  288.0  2.0  0  0.00  82.  1007.  2 NAD-SFC NoSubs
 7 11 16 320 12  119.6  0.113  1.171  0.008  482.   92.     -1.1  0.2720  0.72  0.21  0.50  326.0  15.0  289.8  2.0  0  0.00  71.  1006.  2 NAD-SFC NoSubs
 7 11 16 320 13  115.8  0.172  1.237  0.008  586.  171.     -3.9  0.2720  0.72  0.21  1.00  324.0  15.0  291.0  2.0  0  0.00  66.  1006.  2 NAD-SFC NoSubs
 7 11 16 320 14   97.3  0.218  1.215  0.008  662.  245.     -9.6  0.2720  0.72  0.22  1.50  329.0  15.0  291.8  2.0  0  0.00  62.  1005.  2 NAD-SFC NoSubs
 7 11 16 320 15   64.7  0.314  1.087  0.008  712.  423.    -43.0  0.2930  0.72  0.25  2.60  336.0  15.0  292.1  2.0  0  0.00  62.  1005.  2 NAD-SFC NoSubs
 7 11 16 320 16   23.0  0.287  0.777  0.008  730.  370.    -92.4  0.2720  0.72  0.34  2.60  326.0  15.0  293.2  2.0  0  0.00  69.  1005.  3 NAD-SFC NoSubs
 7 11 16 320 17  -27.3  0.304 -9.000 -9.000 -999.  403.     92.6  0.2930  0.72  0.62  3.10  338.0  15.0  292.2  2.0  0  0.00  73.  1005.  3 NAD-SFC NoSubs
 7 11 16 320 18  -31.4  0.303 -9.000 -9.000 -999.  401.     79.5  0.2930  0.72  1.00  3.10  342.0  15.0  291.4  2.0  0  0.00  77.  1005.  3 NAD-SFC NoSubs
 7 11 16 320 19  -24.7  0.246 -9.000 -9.000 -999.  294.     54.2  0.2720  0.72  1.00  2.60  326.0  15.0  290.6  2.0  0  0.00  80.  1006.  3 NAD-SFC NoSubs
 7 11 16 320 20  -24.7  0.246 -9.000 -9.000 -999.  293.     54.1  0.2720  0.72  1.00  2.60  329.0  15.0  289.9  2.0  0  0.00  81.  1006.  3 NAD-SFC NoSubs
 7 11 16 320 21  -25.7  0.252 -9.000 -9.000 -999.  303.     55.7  0.2930  0.72  1.00  2.60  335.0  15.0  289.5  2.0  0  0.00  82.  1006.  3 NAD-SFC NoSubs
 7 11 16 320 22  -16.5  0.200 -9.000 -9.000 -999.  215.     43.5  0.2930  0.72  1.00  2.10  332.0  15.0  289.1  2.0  0  0.00  83.  1007.  3 NAD-SFC NoSubs
 7 11 16 320 23   -8.2  0.140 -9.000 -9.000 -999.  126.     29.7  0.2930  0.72  1.00  1.50  351.0  15.0  288.6  2.0  0  0.00  85.  1007.  3 NAD-SFC NoSubs
 7 11 16 320 24   -8.3  0.140 -9.000 -9.000 -999.  126.     29.8  0.2940  0.72  1.00  1.50   12.0  15.0  287.9  2.0  0  0.00  87.  1007.  3 NAD-SFC NoSubs
 7 11 17 321  1   -3.8  0.099 -9.000 -9.000 -999.   75.     22.9  0.2470  0.72  1.00  1.00   32.0  15.0  287.4  2.0  0  0.00  89.  1007.  3 NAD-SFC NoSubs
 7 11 17 321  2   -1.6  0.082 -9.000 -9.000 -999.   56.     31.6  0.2470  0.72  1.00  0.50   45.0  15.0  286.9  2.0  0  0.00  90.  1007.  3 NAD-SFC NoSubs
 7 11 17 321  3   -1.6  0.083 -9.000 -9.000 -999.   57.     31.9  0.2470  0.72  1.00  0.50   33.0  15.0  286.4  2.0  0  0.00  91.  1007.  2 NAD-SFC NoSubs
 7 11 17 321  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  285.4  2.0  0  0.00  96.  1007.  2 NAD-SFC NoSubs
 7 11 17 321  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  284.2  2.0  0  0.00  99.  1007.  2 NAD-SFC NoSubs
 7 11 17 321  6   -1.5  0.082 -9.000 -9.000 -999.   56.     31.6  0.2090  0.72  1.00  0.50   83.0  15.0  283.6  2.0  0  0.00 100.  1008.  2 NAD-SFC NoSubs
 7 11 17 321  7   -1.5  0.082 -9.000 -9.000 -999.   56.     31.7  0.2090  0.72  1.00  0.50   86.0  15.0  283.1  2.0  0  0.00 100.  1008.  2 NAD-SFC NoSubs
 7 11 17 321  8   -0.3  0.043 -9.000 -9.000 -999.   21.     25.1  0.2090  0.72  0.43  0.50   86.0  15.0  282.8  2.0  0  0.00 100.  1008.  2 NAD-SFC NoSubs
 7 11 17 321  9   43.3 -9.000 -9.000 -9.000  218. -999. -99999.0  0.2235  0.72  0.28  0.00    0.0  15.0  282.9  2.0  0  0.00 100.  1008.  2 NAD-SFC NoSubs
 7 11 17 321 10   81.7 -9.000 -9.000 -9.000  455. -999. -99999.0  0.2235  0.72  0.23  0.00    0.0  15.0  284.8  2.0  0  0.00  94.  1008.  2 NAD-SFC NoSubs
 7 11 17 321 11  107.4 -9.000 -9.000 -9.000  638. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  287.8  2.0  0  0.00  76.  1008.  2 NAD-SFC NoSubs
 7 11 17 321 12  118.4 -9.000 -9.000 -9.000  711. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  289.2  2.0  0  0.00  69.  1007.  2 NAD-SFC NoSubs
 7 11 17 321 13  114.7 -9.000 -9.000 -9.000  764. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  290.5  2.0  0  0.00  63.  1007.  2 NAD-SFC NoSubs
 7 11 17 321 14   96.3  0.110  1.294  0.013  807.   88.     -1.2  0.2720  0.72  0.22  0.50  316.0  15.0  291.4  2.0  0  0.00  59.  1006.  2 NAD-SFC NoSubs
 7 11 17 321 15   63.8  0.104  1.141  0.013  835.   81.     -1.6  0.2720  0.72  0.25  0.50  322.0  15.0  291.9  2.0  0  0.00  56.  1005.  2 NAD-SFC NoSubs
 7 11 17 321 16   20.2  0.091  0.781  0.013  843.   66.     -3.3  0.2930  0.72  0.34  0.50  340.0  15.0  292.0  2.0  0  0.00  57.  1005.  2 NAD-SFC NoSubs
 7 11 17 321 17   -1.5  0.080 -9.000 -9.000 -999.   54.     30.8  0.2940  0.72  0.62  0.50   18.0  15.0  291.5  2.0  0  0.00  60.  1005.  2 NAD-SFC NoSubs
 7 11 17 321 18   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.2130  0.72  1.00  0.50  104.0  15.0  290.4  2.0  0  0.00  67.  1005.  2 NAD-SFC NoSubs
 7 11 17 321 19   -7.0  0.126 -9.000 -9.000 -999.  107.     25.6  0.1970  0.72  1.00  1.50  138.0  15.0  289.2  2.0  0  0.00  75.  1005.  2 NAD-SFC NoSubs
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7	11	17	321	20	-13.9	0.178	-9.000	-9.000	-999.	181.	36.6	0.1970	0.72	1.00	2.10	137.0	15.0	288.4	2.0	0	0.00	82.	1005.	2	NAD-SFC	NoSubs
7	11	17	321	21	-13.9	0.178	-9.000	-9.000	-999.	181.	36.6	0.1970	0.72	1.00	2.10	143.0	15.0	287.8	2.0	0	0.00	87.	1006.	2	NAD-SFC	NoSubs
7	11	17	321	22	-7.0	0.126	-9.000	-9.000	-999.	108.	25.6	0.1970	0.72	1.00	1.50	130.0	15.0	287.2	2.0	0	0.00	90.	1006.	2	NAD-SFC	NoSubs
7	11	17	321	23	-7.3	0.128	-9.000	-9.000	-999.	110.	26.2	0.2130	0.72	1.00	1.50	119.0	15.0	286.8	2.0	0	0.00	94.	1006.	2	NAD-SFC	NoSubs
7	11	17	321	24	-3.7	0.097	-9.000	-9.000	-999.	73.	22.4	0.2130	0.72	1.00	1.00	113.0	15.0	286.2	2.0	0	0.00	97.	1006.	2	NAD-SFC	NoSubs
7	11	18	322	1	-3.6	0.096	-9.000	-9.000	-999.	71.	22.1	0.1970	0.72	1.00	1.00	121.0	15.0	285.8	2.0	0	0.00	99.	1006.	2	NAD-SFC	NoSubs
7	11	18	322	2	-3.7	0.097	-9.000	-9.000	-999.	73.	22.4	0.2130	0.72	1.00	1.00	115.0	15.0	284.8	2.0	0	0.00	100.	1006.	2	NAD-SFC	NoSubs
7	11	18	322	3	-3.7	0.097	-9.000	-9.000	-999.	73.	22.4	0.2130	0.72	1.00	1.00	106.0	15.0	283.9	2.0	0	0.00	100.	1006.	2	NAD-SFC	NoSubs
7	11	18	322	4	-3.7	0.097	-9.000	-9.000	-999.	73.	22.4	0.2130	0.72	1.00	1.00	108.0	15.0	283.4	2.0	0	0.00	100.	1006.	2	NAD-SFC	NoSubs
7	11	18	322	5	-1.6	0.082	-9.000	-9.000	-999.	56.	31.7	0.2130	0.72	1.00	0.50	96.0	15.0	282.9	2.0	0	0.00	100.	1006.	2	NAD-SFC	NoSubs
7	11	18	322	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	282.4	2.0	0	0.00	100.	1006.	2	NAD-SFC	NoSubs
7	11	18	322	7	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	282.0	2.0	0	0.00	100.	1007.	2	NAD-SFC	NoSubs
7	11	18	322	8	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	0.43	0.00	0.0	15.0	281.8	2.0	0	0.00	100.	1007.	2	NAD-SFC	NoSubs
7	11	18	322	9	42.1	-9.000	-9.000	-9.000	74.	-999.	-99999.0	0.2235	0.72	0.28	0.00	0.0	15.0	282.4	2.0	0	0.00	100.	1007.	2	NAD-SFC	NoSubs
7	11	18	322	10	80.6	-9.000	-9.000	-9.000	244.	-999.	-99999.0	0.2235	0.72	0.23	0.00	0.0	15.0	284.8	2.0	0	0.00	95.	1007.	2	NAD-SFC	NoSubs
7	11	18	322	11	106.1	-9.000	-9.000	-9.000	435.	-999.	-99999.0	0.2235	0.72	0.21	0.00	0.0	15.0	286.8	2.0	0	0.00	87.	1007.	2	NAD-SFC	NoSubs
7	11	18	322	12	116.8	0.175	1.256	0.013	609.	175.	-4.1	0.2930	0.72	0.21	1.00	330.0	15.0	287.2	2.0	0	0.00	88.	1006.	2	NAD-SFC	NoSubs
7	11	18	322	13	112.8	0.221	1.293	0.013	688.	250.	-8.6	0.2720	0.72	0.21	1.50	328.0	15.0	287.5	2.0	0	0.00	89.	1006.	2	NAD-SFC	NoSubs
7	11	18	322	14	94.2	0.221	1.240	0.013	725.	249.	-10.3	0.2930	0.72	0.22	1.50	348.0	15.0	287.8	2.0	0	0.00	90.	1005.	2	NAD-SFC	NoSubs
7	11	18	322	15	61.6	0.211	1.088	0.013	749.	232.	-13.6	0.2940	0.72	0.25	1.50	12.0	15.0	287.8	2.0	0	0.00	90.	1005.	2	NAD-SFC	NoSubs
7	11	18	322	16	18.1	0.180	0.726	0.012	756.	184.	-28.9	0.2470	0.72	0.34	1.50	57.0	15.0	287.8	2.0	0	0.00	91.	1004.	2	NAD-SFC	NoSubs
7	11	18	322	17	-13.6	0.182	-9.000	-9.000	-999.	186.	39.7	0.2090	0.72	0.63	2.10	77.0	15.0	287.5	2.0	0	0.00	93.	1004.	2	NAD-SFC	NoSubs
7	11	18	322	18	-7.2	0.128	-9.000	-9.000	-999.	110.	26.0	0.2090	0.72	1.00	1.50	85.0	15.0	287.2	2.0	0	0.00	95.	1005.	2	NAD-SFC	NoSubs
7	11	18	322	19	-3.8	0.099	-9.000	-9.000	-999.	75.	22.9	0.2470	0.72	1.00	1.00	46.0	15.0	287.1	2.0	0	0.00	95.	1005.	2	NAD-SFC	NoSubs
7	11	18	322	20	-4.1	0.103	-9.000	-9.000	-999.	79.	23.7	0.2940	0.72	1.00	1.00	22.0	15.0	287.0	2.0	0	0.00	96.	1005.	2	NAD-SFC	NoSubs
7	11	18	322	21	-8.4	0.140	-9.000	-9.000	-999.	126.	29.3	0.2940	0.72	1.00	1.50	23.0	15.0	286.9	2.0	0	0.00	97.	1005.	2	NAD-SFC	NoSubs
7	11	18	322	22	-8.4	0.140	-9.000	-9.000	-999.	126.	29.3	0.2940	0.72	1.00	1.50	18.0	15.0	286.8	2.0	0	0.00	99.	1006.	2	NAD-SFC	NoSubs
7	11	18	322	23	-3.8	0.099	-9.000	-9.000	-999.	75.	22.9	0.2470	0.72	1.00	1.00	33.0	15.0	286.8	2.0	0	0.00	100.	1006.	2	NAD-SFC	NoSubs
7	11	18	322	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	286.6	2.0	0	0.00	100.	1006.	2	NAD-SFC	NoSubs
7	11	19	323	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	286.6	2.0	0	0.00	100.	1006.	2	NAD-SFC	NoSubs
7	11	19	323	2	-1.5	0.080	-9.000	-9.000	-999.	54.	31.2	0.1810	0.72	1.00	0.50	167.0	15.0	286.6	2.0	0	0.00	99.	1006.	2	NAD-SFC	NoSubs
7	11	19	323	3	-1.5	0.080	-9.000	-9.000	-999.	54.	31.2	0.1810	0.72	1.00	0.50	176.0	15.0	286.5	2.0	0	0.00	99.	1006.	2	NAD-SFC	NoSubs
7	11	19	323	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	286.5	2.0	0	0.00	99.	1006.	2	NAD-SFC	NoSubs
7	11	19	323	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	286.4	2.0	0	0.00	98.	1006.	2	NAD-SFC	NoSubs
7	11	19	323	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	286.2	2.0	0	0.00	98.	1006.	2	NAD-SFC	NoSubs
7	11	19	323	7	-1.5	0.080	-9.000	-9.000	-999.	54.	31.1	0.1750	0.72	1.00	0.50	257.0	15.0	286.1	2.0	0	0.00	98.	1007.	2	NAD-SFC	NoSubs
7	11	19	323	8	-0.3	0.042	-9.000	-9.000	-999.	21.	22.0	0.1750	0.72	0.44	0.50	249.0	15.0	286.0	2.0	0	0.00	98.	1007.	2	NAD-SFC	NoSubs
7	11	19	323	9	41.7	0.092	0.782	0.017	412.	67.	-1.7	0.1950	0.72	0.28	0.50	214.0	15.0	285.5	2.0	0	0.00	96.	1007.	2	NAD-SFC	NoSubs
7	11	19	323	10	79.7	0.098	0.998	0.017	449.	74.	-1.1	0.1810	0.72	0.23	0.50	166.0	15.0	285.4	2.0	0	0.00	95.	1008.	2	NAD-SFC	NoSubs
7	11	19	323	11	104.7	0.102	1.128	0.016	493.	78.	-1.0	0.1810	0.72	0.21	0.50	165.0	15.0	285.5	2.0	0	0.00	94.	1008.	2	NAD-SFC	NoSubs
7	11	19	323	12	115.4	-9.000	-9.000	-9.000	538.	-999.	-99999.0	0.2235	0.72	0.21	0.00	0.0	15.0	285.8	2.0	0	0.00	92.	1007.	2	NAD-SFC	NoSubs
7	11	19	323	13	111.7	-9.000	-9.000	-9.000	579.	-999.	-99999.0	0.2235	0.72	0.21	0.00	0.0	15.0	286.9	2.0	0	0.00	85.	1006.	2	NAD-SFC	NoSubs
7	11	19	323	14	93.5	-9.000	-9.000	-9.000	611.	-999.	-99999.0	0.2235	0.72	0.22	0.00	0.0	15.0	288.2	2.0	0	0.00	79.	1005.	2	NAD-SFC	NoSubs
7	11	19	323	15	61.3	0.161	1.026	0.013	631.	156.	-6.2	0.2930	0.72	0.25	1.00	335.0	15.0	289.0	2.0	0	0.00	76.	1005.	2	NAD-SFC	NoSubs
7	11	19	323	16	17.9	0.242	0.683	0.013	637.	285.	-70.7	0.2930	0.72	0.35	2.10	352.0	15.0	289.0	2.0	0	0.00	77.	1004.	2	NAD-SFC	NoSubs
7	11	19	323	17	-29.7	0.304	-9.000	-9.000	-999.	401.	84.3	0.2930	0.72	0.63	3.10	346.0	15.0	288.2	2.0	0	0.00	82.	1004.	2	NAD-SFC	NoSubs
7	11	19	323	18	-31.9	0.303	-9.000	-9.000	-999.	401.	78.4	0.2940	0.72	1.00	3.10	2.0	15.0	287.1	2.0	0	0.00	88.	1005.	3	NAD-SFC	NoSubs
7	11	19	323	19	-25.8	0.252	-9.000	-9.000	-999.	304.	55.4	0.2930	0.72	1.00	2.60	355.0	15.0	286.5	2.0	0	0.00	92.	1005.	3	NAD-SFC	NoSubs
7	11	19	323	20	-8.0	0.137	-9.000	-9.000	-999.	129.	28.8	0.2720	0.72	1.00	1.50	324.0	15.0	286.5	2.0	0	0.00	93.	1005.	3	NAD-SFC	NoSubs
7	11	19	323	21	-6.6	0.122	-9.000	-9.000	-999.	103.	24.9	0.1750	0.72	1.00	1.50	266.0	15.0	286.6	2.0	0	0.00	93.	1005.	3	NAD-SFC	NoSubs
7	11	19	323	22	-13.1	0.173	-9.000	-9.000	-999.	173.	35.5	0.1750	0.72	1.00	2.10	244.0	15.0	286.4	2.0	0	0.00	98.	1005.	3	NAD-SFC	NoSubs
7	11	19	323	23	-6.9	0.126	-9.000	-9.000	-999.	107.	25.7	0.1950	0.72	1.00	1.50	232.0	15.0	286.5	2.0	0	0.00	100.	1005.	3	NAD-SFC	NoSubs
7	11	19	323	24	-6.7	0.125	-9.000	-9.000	-999.	106.	25.9	0.1900	0.72	1.00	1.50	208.0	15.0	286.6	2.0	0	0.00	100.	1005.	4	NAD-SFC	NoSubs
7	11	20	324	1	-3.3	0.094	-9.000	-9.000	-999.	69.	21.9	0.1900	0.72	1.00	1.00	186.0	15.0	286.8	2.0	0	0.00	100.	1005.	4	NAD-SFC	NoSubs
7	11	20	324	2	-1.4	0.078	-9.000	-9.000	-999.	52.	30.5	0.1810	0.72	1.00	0.50	159.0	15.0	286.8	2.0	0	0.00	100.	1005.	4	NAD-SFC	NoSubs
7	11	20	324	3	-3.7	0.098	-9.000	-9.000	-999.	74.	23.4	0.2720	0.72	1.00	1.00	302.0	15.0	286.9	2.0	0	0.25	99.	1005.	5	NAD-SFC	NoSubs
7	11	20	324	4	-27.0	0.298	-9.000	-9.000	-999.	390.	87.7	0.2720	0.72	1.00	3.10	312.0	15.0	286.8	2.0	0	0.51	99.	1006.	6	NAD-SFC	NoSubs
7	11	20	324	5	-33.6	0.347	-9.000	-9.000	-999.	491.	111.9	0.2720	0.72	1.00	3.60	319.0	15.0	286.5	2.0	0	0.25	95.	1006.	5	NAD-SFC	NoSubs
7	11	20	324	6	-33.7	0.347	-9.000	-9.000	-999.	491.	111.8	0.2720	0.72	1.00	3.60	326.0	15.0	286.1	2.0	0	0.00	87.	1007.	5	NAD-SFC	NoSubs
7	11	20	324	7	-38.6	0.398	-9.000	-9.000	-999.	602.	146.3	0.2720	0.72	1.00	4.10	329.0	15.0	285.8	2.0	0	0.00	80.	1007.	5	NAD-SFC	NoSubs
7	11	20	324	8	-2.8	0.425	-9.000	-9.000	-999.	665.	2440.2	0.2930	0.72	0.44	4.10	338.0	15.0	285.1	2.0	0	0.00	75.	1007.	4	NAD-SFC	NoSubs
7	11	20	324	9	42.5	0.443	0.709	0.006	301.	708.	-184.2	0.2930	0.72	0.29	4.10	340.0	15.0	284.8	2.0	0	0.00	70.	1007.	4	NAD-SFC	NoSubs
7	11	20	324	10	79.5	0.411	1.009	0.006	464.	633.	-78.4	0.2930	0.72	0.23	3.60	345.0	15.0	284.8	2.0	0	0.00	64.	1007.	3	NAD-SFC	NoSubs
7	11	20	324	11	104.4	0.327	1.214	0.006	615.	453.	-30.0	0.2930	0.72	0.21	2.60	342.0	15.0	285.2	2.0	0	0.00	58.	1007.	3	NAD-SFC	NoSubs
7	11	20	324	12	115.2	0.226	1.351	0.007	769.	263.	-8.9	0.2930	0.72	0.21	1.50	352.0	15.0	286.0	2.0	0	0.00	54.	1006.	3	NAD-SFC	NoSubs
7	11	20	324	13	111.4	0.114	1.408	0.008	899.	100.	-1.2	0.2930	0.72	0.21	0.50	345.0	15.0	286.6	2.0	0	0.00	52.	1006.	3	NAD-SFC	NoSubs
7	11	20	324	14	93.3	0.104	1.368	0.010	984.	81.	-1.1	0.2160	0.72	0.22	0.50	276.0	15.0	287.4	2.0	0	0.00	50.	1005.	3	NAD-SFC	NoSubs
7	11	20	324	15	60.2	0.159	1.194	0.010	1013.	151.	-5.9	0.2720	0.72	0.25	1.00	304.0	15.0	288.1	2.0	0	0.00	48.	1005.	2	NAD-SFC	NoSubs
7	11	20	324	16	17.0	0.183	0.786	0.010	1022.	188.	-32.2	0.2720	0.72	0.35	1.50	315.0	15.0	288.2	2.0	0	0.00	47.	1004.	2	NAD-SFC	NoSubs
7	11	20	324	17	-1.5	0.081	-9.000	-9.000	-999.	61.	31.1	0.2720	0.72	0.64	0.50	323.0	15.0	287.8	2.0	0	0.00	51.	1005.	2	NAD-SFC	NoSubs
7	11	20	324	18	-1.6	0.083	-9.000	-9.000	-999.	57.	31.8	0.2720	0.72	1.00	0.50	327.0	15.0	286.8	2.0	0	0.00	55.	1005.	3	NAD-SFC	NoSubs
7	11	20	324	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	285.8	2.0	0	0.00	61.	1006.	3	NAD-SFC	NoSubs
7	11	20	324	20	-1.5	0.080	-9.000	-9.000	-999.	54.	31.1	0.1900	0.72	1.00	0.50	202.0	15.0	284.8	2.0	0	0.00	67.	1006.	3	NAD-SFC	NoSubs
7	11	20	324	21	-3.5	0.095	-9.000	-9.000	-999.	70.	21.8	0.1810	0.72	1.00	1.00	169.0	15.0	283.8	2.0	0	0.00	74.	1006.	2	NAD-SFC	NoSubs
7	11	20	324	22	-6.9	0.124	-9.000	-9.000	-999.	104.	24.7	0.1810	0.72	1.00	1.50	162.0	15.0	283.0	2.0	0	0.00	79.	1007.	2	NAD-SFC	NoSubs
7	11	20	324	23	-1.5	0.080	-9.000	-9.000	-999.	54.	31.2	0.1900	0.72	1.00	0.50	184.0	15.0	282.4	2.0	0	0.00	81.	1007.	3	NAD-SFC	NoSubs
7	11	20	324	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	282.0	2.0	0	0.00	82.	1007.	2	NAD-SFC	NoSubs

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 7 11 21 325  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 281.0 2.0 0 0.00 86. 1007.  2 NAD-SFC NoSubs
 7 11 21 325  2   -1.7  0.085 -9.000 -9.000 -999.   59.     32.3 0.2720 0.72 1.00 0.50 323.0 15.0 280.2 2.0 0 0.00 87. 1008.  2 NAD-SFC NoSubs
 7 11 21 325  3   -1.7  0.085 -9.000 -9.000 -999.   59.     32.3 0.2720 0.72 1.00 0.50 320.0 15.0 279.8 2.0 0 0.00 86. 1008.  2 NAD-SFC NoSubs
 7 11 21 325  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 279.2 2.0 0 0.00 86. 1008.  2 NAD-SFC NoSubs
 7 11 21 325  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 278.8 2.0 0 0.00 86. 1008.  2 NAD-SFC NoSubs
 7 11 21 325  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 278.6 2.0 0 0.00 86. 1009.  2 NAD-SFC NoSubs
 7 11 21 325  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 278.2 2.0 0 0.00 86. 1009.  2 NAD-SFC NoSubs
 7 11 21 325  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 0.45 0.00   0.0 15.0 277.9 2.0 0 0.00 87. 1010.  2 NAD-SFC NoSubs
 7 11 21 325  9   38.5  0.150  0.485  0.011  107.  139.     -7.9 0.2720 0.72 0.29 1.00 314.0 15.0 280.2 2.0 0 0.00 67. 1010.  2 NAD-SFC NoSubs
 7 11 21 325 10   77.0  0.212  0.795  0.010  235.  235.    -11.2 0.2720 0.72 0.23 1.50 308.0 15.0 282.8 2.0 0 0.00 56. 1010.  2 NAD-SFC NoSubs
 7 11 21 325 11  102.5  0.169  1.015  0.009  368.  167.     -4.2 0.2720 0.72 0.21 1.00 328.0 15.0 284.8 2.0 0 0.00 51. 1010.  2 NAD-SFC NoSubs
 7 11 21 325 12  113.7  0.113  1.150  0.009  481.   91.     -1.1 0.2720 0.72 0.21 0.50 316.0 15.0 286.6 2.0 0 0.00 46. 1009.  2 NAD-SFC NoSubs
 7 11 21 325 13  110.2  0.174  1.206  0.009  572.  173.     -4.3 0.2930 0.72 0.21 1.00 334.0 15.0 288.0 2.0 0 0.00 42. 1008.  2 NAD-SFC NoSubs
 7 11 21 325 14   92.0  0.220  1.177  0.009  638.  248.    -10.4 0.2930 0.72 0.22 1.50 349.0 15.0 288.8 2.0 0 0.00 41. 1007.  2 NAD-SFC NoSubs
 7 11 21 325 15   59.8  0.266  1.042  0.009  680.  329.    -28.3 0.2940 0.72 0.26 2.10  15.0 15.0 289.1 2.0 0 0.00 41. 1007.  2 NAD-SFC NoSubs
 7 11 21 325 16   16.7  0.241  0.686  0.009  692.  284.    -74.9 0.2940 0.72 0.35 2.10  22.0 15.0 289.1 2.0 0 0.00 44. 1007.  2 NAD-SFC NoSubs
 7 11 21 325 17  -23.1  0.240 -9.000 -9.000 -999.  282.     53.6 0.2470 0.72 0.64 2.60  32.0 15.0 288.2 2.0 0 0.00 48. 1007.  2 NAD-SFC NoSubs
 7 11 21 325 18  -15.4  0.190 -9.000 -9.000 -999.  199.     39.8 0.2470 0.72 1.00 2.10  32.0 15.0 287.2 2.0 0 0.00 52. 1007.  2 NAD-SFC NoSubs
 7 11 21 325 19   -4.1  0.103 -9.000 -9.000 -999.   82.     23.7 0.2940 0.72 1.00 1.00   8.0 15.0 286.1 2.0 0 0.00 57. 1008.  2 NAD-SFC NoSubs
 7 11 21 325 20   -1.7  0.085 -9.000 -9.000 -999.   59.     32.2 0.2930 0.72 1.00 0.50 351.0 15.0 284.9 2.0 0 0.00 62. 1008.  2 NAD-SFC NoSubs
 7 11 21 325 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 283.8 2.0 0 0.00 68. 1008.  2 NAD-SFC NoSubs
 7 11 21 325 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 282.9 2.0 0 0.00 72. 1009.  2 NAD-SFC NoSubs
 7 11 21 325 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 282.1 2.0 0 0.00 76. 1009.  2 NAD-SFC NoSubs
 7 11 21 325 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 281.5 2.0 0 0.00 79. 1009.  2 NAD-SFC NoSubs
 7 11 22 326  1   -1.6  0.082 -9.000 -9.000 -999.   57.     31.8 0.2160 0.72 1.00 0.50 298.0 15.0 281.0 2.0 0 0.00 80. 1009.  2 NAD-SFC NoSubs
 7 11 22 326  2   -4.1  0.102 -9.000 -9.000 -999.   78.     23.3 0.2720 0.72 1.00 1.00 315.0 15.0 280.8 2.0 0 0.00 80. 1009.  2 NAD-SFC NoSubs
 7 11 22 326  3   -8.2  0.137 -9.000 -9.000 -999.  122.     28.2 0.2720 0.72 1.00 1.50 314.0 15.0 280.4 2.0 0 0.00 79. 1009.  2 NAD-SFC NoSubs
 7 11 22 326  4  -16.4  0.195 -9.000 -9.000 -999.  207.     40.8 0.2720 0.72 1.00 2.10 308.0 15.0 280.1 2.0 0 0.00 78. 1010.  2 NAD-SFC NoSubs
 7 11 22 326  5  -16.4  0.195 -9.000 -9.000 -999.  207.     40.8 0.2720 0.72 1.00 2.10 311.0 15.0 279.8 2.0 0 0.00 76. 1010.  2 NAD-SFC NoSubs
 7 11 22 326  6  -16.4  0.195 -9.000 -9.000 -999.  207.     40.7 0.2720 0.72 1.00 2.10 310.0 15.0 279.2 2.0 0 0.00 74. 1010.  2 NAD-SFC NoSubs
 7 11 22 326  7   -7.4  0.129 -9.000 -9.000 -999.  112.     26.0 0.2160 0.72 1.00 1.50 292.0 15.0 278.9 2.0 0 0.00 72. 1010.  2 NAD-SFC NoSubs
 7 11 22 326  8   -4.4  0.133 -9.000 -9.000 -999.  116.     48.4 0.2160 0.72 0.45 1.50 274.0 15.0 278.8 2.0 0 0.00 70. 1011.  2 NAD-SFC NoSubs
 7 11 22 326  9   37.5  0.197  0.474  0.009  102.  210.    -18.4 0.2720 0.72 0.29 1.50 304.0 15.0 280.4 2.0 0 0.00 55. 1011.  2 NAD-SFC NoSubs
 7 11 22 326 10   75.8  0.155  0.739  0.010  192.  146.     -4.4 0.2160 0.72 0.23 1.00 293.0 15.0 282.0 2.0 0 0.00 50. 1011.  2 NAD-SFC NoSubs
 7 11 22 326 11  101.3  0.105  0.977  0.009  332.   82.     -1.0 0.2160 0.72 0.22 0.50 288.0 15.0 283.8 2.0 0 0.00 46. 1010.  2 NAD-SFC NoSubs
 7 11 22 326 12  112.6  0.107  1.127  0.008  458.   84.     -1.0 0.2160 0.72 0.21 0.50 291.0 15.0 285.8 2.0 0 0.00 43. 1009.  2 NAD-SFC NoSubs
 7 11 22 326 13  109.1  0.170  1.194  0.008  562.  169.     -4.1 0.2720 0.72 0.21 1.00 302.0 15.0 287.2 2.0 0 0.00 38. 1008.  2 NAD-SFC NoSubs
 7 11 22 326 14   91.0  0.216  1.171  0.008  635.  242.    -10.0 0.2720 0.72 0.22 1.50 310.0 15.0 288.0 2.0 0 0.00 37. 1008.  2 NAD-SFC NoSubs
 7 11 22 326 15   58.9  0.261  1.038  0.007  681.  320.    -27.2 0.2720 0.72 0.26 2.10 321.0 15.0 288.4 2.0 0 0.00 37. 1007.  2 NAD-SFC NoSubs
 7 11 22 326 16   15.9  0.240  0.675  0.007  693.  282.    -77.9 0.2930 0.72 0.35 2.10 341.0 15.0 288.2 2.0 0 0.00 42. 1007.  2 NAD-SFC NoSubs
 7 11 22 326 17   -8.1  0.140 -9.000 -9.000 -999.  130.     30.4 0.2930 0.72 0.65 1.50 354.0 15.0 287.4 2.0 0 0.00 45. 1007.  2 NAD-SFC NoSubs
 7 11 22 326 18   -4.1  0.103 -9.000 -9.000 -999.   79.     23.7 0.2940 0.72 1.00 1.00  13.0 15.0 286.2 2.0 0 0.00 50. 1007.  2 NAD-SFC NoSubs
 7 11 22 326 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 284.9 2.0 0 0.00 55. 1007.  2 NAD-SFC NoSubs
 7 11 22 326 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 283.6 2.0 0 0.00 62. 1008.  2 NAD-SFC NoSubs
 7 11 22 326 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 282.5 2.0 0 0.00 67. 1008.  2 NAD-SFC NoSubs
 7 11 22 326 22   -1.6  0.082 -9.000 -9.000 -999.   57.     31.8 0.2160 0.72 1.00 0.50 285.0 15.0 281.5 2.0 0 0.00 71. 1008.  2 NAD-SFC NoSubs
 7 11 22 326 23   -3.7  0.098 -9.000 -9.000 -999.   73.     22.5 0.2160 0.72 1.00 1.00 293.0 15.0 280.9 2.0 0 0.00 72. 1009.  2 NAD-SFC NoSubs
 7 11 22 326 24  -16.3  0.195 -9.000 -9.000 -999.  207.     40.8 0.2720 0.72 1.00 2.10 304.0 15.0 280.5 2.0 0 0.00 70. 1009.  2 NAD-SFC NoSubs
 7 11 23 327  1  -32.9  0.296 -9.000 -9.000 -999.  387.     71.0 0.2720 0.72 1.00 3.10 300.0 15.0 280.0 2.0 0 0.00 65. 1009.  2 NAD-SFC NoSubs
 7 11 23 327  2  -38.6  0.346 -9.000 -9.000 -999.  489.     96.8 0.2720 0.72 1.00 3.60 301.0 15.0 279.2 2.0 0 0.00 62. 1009.  2 NAD-SFC NoSubs
 7 11 23 327  3  -36.3  0.325 -9.000 -9.000 -999.  445.     85.0 0.2160 0.72 1.00 3.60 295.0 15.0 278.6 2.0 0 0.00 60. 1010.  2 NAD-SFC NoSubs
 7 11 23 327  4  -36.4  0.325 -9.000 -9.000 -999.  444.     84.8 0.2160 0.72 1.00 3.60 281.0 15.0 278.0 2.0 0 0.00 60. 1010.  2 NAD-SFC NoSubs
 7 11 23 327  5  -31.2  0.278 -9.000 -9.000 -999.  352.     61.8 0.2160 0.72 1.00 3.10 280.0 15.0 277.4 2.0 0 0.00 60. 1010.  2 NAD-SFC NoSubs
 7 11 23 327  6  -31.3  0.278 -9.000 -9.000 -999.  351.     61.7 0.2160 0.72 1.00 3.10 272.0 15.0 276.9 2.0 0 0.00 61. 1011.  2 NAD-SFC NoSubs
 7 11 23 327  7  -21.1  0.218 -9.000 -9.000 -999.  245.     44.0 0.1750 0.72 1.00 2.60 261.0 15.0 276.5 2.0 0 0.00 61. 1011.  2 NAD-SFC NoSubs
 7 11 23 327  8   -9.8  0.236 -9.000 -9.000 -999.  276.    121.4 0.2160 0.72 0.46 2.60 275.0 15.0 276.1 2.0 0 0.00 62. 1011.  2 NAD-SFC NoSubs
 7 11 23 327  9   36.1  0.295  0.491  0.009  118.  385.    -64.4 0.2720 0.72 0.29 2.60 321.0 15.0 277.9 2.0 0 0.00 53. 1011.  2 NAD-SFC NoSubs
 7 11 23 327 10   74.3  0.108  0.818  0.010  265.  125.     -1.5 0.2930 0.72 0.24 0.50 344.0 15.0 279.5 2.0 0 0.00 48. 1011.  2 NAD-SFC NoSubs
 7 11 23 327 11   99.8  0.105  0.996  0.009  357.   82.     -1.0 0.2160 0.72 0.22 0.50 276.0 15.0 281.2 2.0 0 0.00 43. 1011.  2 NAD-SFC NoSubs
 7 11 23 327 12  110.9  0.107  1.127  0.009  464.   84.     -1.0 0.2160 0.72 0.21 0.50 273.0 15.0 282.5 2.0 0 0.00 41. 1009.  2 NAD-SFC NoSubs
 7 11 23 327 13  107.4  0.161  1.187  0.008  562.  156.     -3.5 0.2160 0.72 0.21 1.00 284.0 15.0 283.8 2.0 0 0.00 39. 1009.  2 NAD-SFC NoSubs
 7 11 23 327 14   89.3  0.166  1.162  0.008  632.  162.     -4.6 0.2720 0.72 0.22 1.00 302.0 15.0 284.8 2.0 0 0.00 37. 1008.  2 NAD-SFC NoSubs
 7 11 23 327 15   57.3  0.150  1.024  0.008  674.  139.     -5.3 0.2160 0.72 0.26 1.00 292.0 15.0 285.1 2.0 0 0.00 36. 1008.  2 NAD-SFC NoSubs
 7 11 23 327 16   14.6  0.080  0.652  0.008  684.   55.     -3.1 0.1900 0.72 0.35 0.50 183.0 15.0 285.2 2.0 0 0.00 38. 1008.  2 NAD-SFC NoSubs
 7 11 23 327 17   -3.3  0.093 -9.000 -9.000 -999.   68.     21.7 0.1810 0.72 0.65 1.00 178.0 15.0 284.5 2.0 0 0.00 43. 1008.  2 NAD-SFC NoSubs
 7 11 23 327 18  -13.5  0.174 -9.000 -9.000 -999.  175.     35.2 0.1810 0.72 1.00 2.10 179.0 15.0 283.4 2.0 0 0.00 47. 1008.  2 NAD-SFC NoSubs
 7 11 23 327 19  -13.8  0.176 -9.000 -9.000 -999.  178.     35.7 0.1900 0.72 1.00 2.10 205.0 15.0 282.5 2.0 0 0.00 50. 1009.  2 NAD-SFC NoSubs
 7 11 23 327 20   -7.1  0.126 -9.000 -9.000 -999.  108.     25.3 0.1950 0.72 1.00 1.50 227.0 15.0 281.8 2.0 0 0.00 51. 1009.  2 NAD-SFC NoSubs
 7 11 23 327 21   -6.8  0.123 -9.000 -9.000 -999.  103.     24.4 0.1750 0.72 1.00 1.50 253.0 15.0 281.1 2.0 0 0.00 51. 1010.  2 NAD-SFC NoSubs
 7 11 23 327 22   -3.6  0.096 -9.000 -9.000 -999.   72.     22.1 0.1950 0.72 1.00 1.00 239.0 15.0 280.2 2.0 0 0.00 53. 1010.  2 NAD-SFC NoSubs
 7 11 23 327 23   -1.5  0.081 -9.000 -9.000 -999.   56.     31.6 0.1950 0.72 1.00 0.50 226.0 15.0 279.5 2.0 0 0.00 54. 1010.  2 NAD-SFC NoSubs
 7 11 23 327 24   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4 0.1750 0.72 1.00 0.50 252.0 15.0 278.8 2.0 0 0.00 55. 1010.  2 NAD-SFC NoSubs
 7 11 24 328  1   -1.6  0.083 -9.000 -9.000 -999.   57.     31.9 0.2160 0.72 1.00 0.50 289.0 15.0 278.2 2.0 0 0.00 55. 1011.  2 NAD-SFC NoSubs
 7 11 24 328  2   -4.1  0.102 -9.000 -9.000 -999.   78.     23.3 0.2720 0.72 1.00 1.00 324.0 15.0 277.9 2.0 0 0.00 55. 1011.  2 NAD-SFC NoSubs
 7 11 24 328  3   -4.1  0.102 -9.000 -9.000 -999.   78.     23.3 0.2720 0.72 1.00 1.00 316.0 15.0 277.6 2.0 0 0.00 54. 1011.  2 NAD-SFC NoSubs
 7 11 24 328  4   -3.8  0.098 -9.000 -9.000 -999.   74.     22.5 0.2160 0.72 1.00 1.00 287.0 15.0 277.4 2.0 0 0.00 53. 1011.  2 NAD-SFC NoSubs
 7 11 24 328  5   -3.5  0.095 -9.000 -9.000 -999.   70.     21.8 0.1750 0.72 1.00 1.00 251.0 15.0 277.2 2.0 0 0.00 52. 1011.  2 NAD-SFC NoSubs
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 7 11 24 328  6   -3.7  0.097 -9.000 -9.000 -999.   72.     22.1  0.1950  0.72  1.00  1.00 228.0  15.0 277.0  2.0   0  0.00   51. 1012.    2 NAD-SFC NoSubs
 7 11 24 328  7   -3.5  0.095 -9.000 -9.000 -999.   70.     21.8  0.1750  0.72  1.00  1.00 246.0  15.0 276.9  2.0   0  0.00   50. 1012.    2 NAD-SFC NoSubs
 7 11 24 328  8   -2.3  0.091 -9.000 -9.000 -999.   66.     29.6  0.2720  0.72  0.46  1.00 307.0  15.0 276.8  2.0   0  0.00   50. 1012.    2 NAD-SFC NoSubs
 7 11 24 328  9   35.0  0.199  0.424  0.011   79.  213.    -20.3  0.2940  0.72  0.29  1.50  10.0  15.0 277.2  2.0   0  0.00   51. 1012.    2 NAD-SFC NoSubs
 7 11 24 328 10   73.4  0.215  0.742  0.011  201.  239.    -12.2  0.2940  0.72  0.24  1.50  11.0  15.0 279.9  2.0   0  0.00   47. 1012.    2 NAD-SFC NoSubs
 7 11 24 328 11   99.0  0.279  0.992  0.012  355.  354.    -19.9  0.2940  0.72  0.22  2.10  11.0  15.0 282.0  2.0   0  0.00   40. 1011.    2 NAD-SFC NoSubs
 7 11 24 328 12  110.2 -9.000 -9.000 -9.000  456. -999. -99999.0  0.2235  0.72  0.21  0.00   0.0  15.0 283.6  2.0   0  0.00   38. 1010.    2 NAD-SFC NoSubs
 7 11 24 328 13  106.8 -9.000 -9.000 -9.000  531. -999. -99999.0  0.2235  0.72  0.21  0.00   0.0  15.0 284.8  2.0   0  0.00   36. 1009.    2 NAD-SFC NoSubs
 7 11 24 328 14   88.8  0.220  1.131  0.011  586.  247.    -10.7  0.2940  0.72  0.22  1.50   6.0  15.0 285.6  2.0   0  0.00   33. 1008.    2 NAD-SFC NoSubs
 7 11 24 328 15   56.9  0.209  0.994  0.011  619.  229.    -14.4  0.2940  0.72  0.26  1.50  17.0  15.0 285.9  2.0   0  0.00   33. 1007.    2 NAD-SFC NoSubs
 7 11 24 328 16   14.1  0.137  0.627  0.011  626.  123.    -16.2  0.2940  0.72  0.36  1.00  28.0  15.0 285.5  2.0   0  0.00   38. 1007.    2 NAD-SFC NoSubs
 7 11 24 328 17   -3.7  0.098 -9.000 -9.000 -999.   74.     22.9  0.2470  0.72  0.65  1.00  32.0  15.0 284.5  2.0   0  0.00   41. 1006.    2 NAD-SFC NoSubs
 7 11 24 328 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 283.6  2.0   0  0.00   46. 1006.    2 NAD-SFC NoSubs
 7 11 24 328 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 282.8  2.0   0  0.00   51. 1006.    2 NAD-SFC NoSubs
 7 11 24 328 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 282.0  2.0   0  0.00   55. 1006.    2 NAD-SFC NoSubs
 7 11 24 328 21   -4.2  0.103 -9.000 -9.000 -999.   79.     23.7  0.2940  0.72  1.00  1.00  16.0  15.0 281.6  2.0   0  0.00   58. 1007.    2 NAD-SFC NoSubs
 7 11 24 328 22   -7.8  0.133 -9.000 -9.000 -999.  117.     27.3  0.2470  0.72  1.00  1.50  45.0  15.0 281.1  2.0   0  0.00   59. 1007.    2 NAD-SFC NoSubs
 7 11 24 328 23   -3.9  0.100 -9.000 -9.000 -999.   76.     23.0  0.2470  0.72  1.00  1.00  55.0  15.0 280.8  2.0   0  0.00   61. 1007.    2 NAD-SFC NoSubs
 7 11 24 328 24   -4.2  0.103 -9.000 -9.000 -999.   80.     23.7  0.2940  0.72  1.00  1.00  11.0  15.0 280.5  2.0   0  0.00   62. 1007.    2 NAD-SFC NoSubs
 7 11 25 329  1   -4.2  0.103 -9.000 -9.000 -999.   80.     23.6  0.2930  0.72  1.00  1.00 345.0  15.0 280.1  2.0   0  0.00   64. 1007.    2 NAD-SFC NoSubs
 7 11 25 329  2   -1.7  0.085 -9.000 -9.000 -999.   59.     32.3  0.2720  0.72  1.00  0.50 309.0  15.0 279.8  2.0   0  0.00   66. 1007.    2 NAD-SFC NoSubs
 7 11 25 329  3   -1.7  0.085 -9.000 -9.000 -999.   59.     32.3  0.2720  0.72  1.00  0.50 310.0  15.0 279.6  2.0   0  0.00   67. 1007.    2 NAD-SFC NoSubs
 7 11 25 329  4   -4.1  0.102 -9.000 -9.000 -999.   78.     23.3  0.2720  0.72  1.00  1.00 311.0  15.0 279.5  2.0   0  0.00   67. 1007.    2 NAD-SFC NoSubs
 7 11 25 329  5   -4.1  0.102 -9.000 -9.000 -999.   78.     23.3  0.2720  0.72  1.00  1.00 316.0  15.0 279.2  2.0   0  0.00   69. 1007.    2 NAD-SFC NoSubs
 7 11 25 329  6   -4.1  0.102 -9.000 -9.000 -999.   78.     23.3  0.2720  0.72  1.00  1.00 325.0  15.0 279.1  2.0   0  0.00   69. 1008.    2 NAD-SFC NoSubs
 7 11 25 329  7   -1.7  0.085 -9.000 -9.000 -999.   59.     32.3  0.2720  0.72  1.00  0.50 301.0  15.0 279.0  2.0   0  0.00   70. 1008.    2 NAD-SFC NoSubs
 7 11 25 329  8   -0.7  0.058 -9.000 -9.000 -999.   34.     24.6  0.2160  0.72  0.47  0.50 299.0  15.0 278.9  2.0   0  0.00   70. 1008.    2 NAD-SFC NoSubs
 7 11 25 329  9   34.3  0.096  0.431  0.013   84.   71.     -2.3  0.2720  0.72  0.30  0.50 317.0  15.0 279.1  2.0   0  0.00   70. 1009.    2 NAD-SFC NoSubs
 7 11 25 329 10   72.5  0.108  0.748  0.012  208.   85.     -1.6  0.2930  0.72  0.24  0.50 330.0  15.0 280.2  2.0   0  0.00   63. 1009.    2 NAD-SFC NoSubs
 7 11 25 329 11   98.0  0.171  0.980  0.012  346.  169.     -4.6  0.2930  0.72  0.22  1.00 331.0  15.0 282.0  2.0   0  0.00   55. 1009.    2 NAD-SFC NoSubs
 7 11 25 329 12  109.2  0.173  1.099  0.012  438.  173.     -4.3  0.2930  0.72  0.21  1.00 342.0  15.0 282.8  2.0   0  0.00   55. 1008.    2 NAD-SFC NoSubs
 7 11 25 329 13  105.8  0.173  1.140  0.011  504.  172.     -4.4  0.2930  0.72  0.21  1.00 344.0  15.0 283.6  2.0   0  0.00   54. 1008.    2 NAD-SFC NoSubs
 7 11 25 329 14   87.7  0.166  1.105  0.010  553.  162.     -4.7  0.2720  0.72  0.22  1.00 329.0  15.0 284.1  2.0   0  0.00   53. 1008.    2 NAD-SFC NoSubs
 7 11 25 329 15   55.9  0.157  0.967  0.010  582.  149.     -6.2  0.2720  0.72  0.26  1.00 323.0  15.0 284.2  2.0   0  0.00   55. 1007.    2 NAD-SFC NoSubs
 7 11 25 329 16   13.3  0.086  0.602  0.010  588.   62.     -4.4  0.2930  0.72  0.36  0.50 355.0  15.0 284.0  2.0   0  0.00   57. 1007.    2 NAD-SFC NoSubs
 7 11 25 329 17   -1.6  0.083 -9.000 -9.000 -999.   57.     31.7  0.2940  0.72  0.66  0.50  18.0  15.0 283.5  2.0   0  0.00   60. 1007.    2 NAD-SFC NoSubs
 7 11 25 329 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 283.1  2.0   0  0.00   63. 1007.    2 NAD-SFC NoSubs
 7 11 25 329 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 282.6  2.0   0  0.00   67. 1008.    2 NAD-SFC NoSubs
 7 11 25 329 20   -1.5  0.081 -9.000 -9.000 -999.   55.     31.5  0.1900  0.72  1.00  0.50 207.0  15.0 282.2  2.0   0  0.00   69. 1008.    2 NAD-SFC NoSubs
 7 11 25 329 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 281.9  2.0   0  0.00   71. 1009.    2 NAD-SFC NoSubs
 7 11 25 329 22   -1.6  0.082 -9.000 -9.000 -999.   56.     31.7  0.2090  0.72  1.00  0.50  64.0  15.0 281.5  2.0   0  0.00   73. 1009.    2 NAD-SFC NoSubs
 7 11 25 329 23   -3.7  0.097 -9.000 -9.000 -999.   73.     22.3  0.2090  0.72  1.00  1.00  67.0  15.0 281.1  2.0   0  0.00   75. 1010.    2 NAD-SFC NoSubs
 7 11 25 329 24   -1.6  0.082 -9.000 -9.000 -999.   56.     31.7  0.2090  0.72  1.00  0.50  71.0  15.0 280.6  2.0   0  0.00   76. 1010.    2 NAD-SFC NoSubs
 7 11 26 330  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 279.9  2.0   0  0.00   79. 1010.    2 NAD-SFC NoSubs
 7 11 26 330  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 279.2  2.0   0  0.00   82. 1010.    2 NAD-SFC NoSubs
 7 11 26 330  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 278.8  2.0   0  0.00   85. 1011.    2 NAD-SFC NoSubs
 7 11 26 330  4   -4.2  0.103 -9.000 -9.000 -999.   80.     23.6  0.2930  0.72  1.00  1.00 352.0  15.0 278.2  2.0   0  0.00   86. 1011.    2 NAD-SFC NoSubs
 7 11 26 330  5   -8.3  0.137 -9.000 -9.000 -999.  122.     28.1  0.2720  0.72  1.00  1.50 307.0  15.0 277.9  2.0   0  0.00   86. 1012.    2 NAD-SFC NoSubs
 7 11 26 330  6  -14.8  0.183 -9.000 -9.000 -999.  187.     37.1  0.2160  0.72  1.00  2.10 296.0  15.0 277.8  2.0   0  0.00   87. 1012.    2 NAD-SFC NoSubs
 7 11 26 330  7   -8.3  0.137 -9.000 -9.000 -999.  122.     28.1  0.2720  0.72  1.00  1.50 303.0  15.0 277.5  2.0   0  0.00   87. 1013.    2 NAD-SFC NoSubs
 7 11 26 330  8   -2.2  0.086 -9.000 -9.000 -999.   61.     25.7  0.2160  0.72  0.47  1.00 298.0  15.0 277.4  2.0   0  0.00   86. 1013.    2 NAD-SFC NoSubs
 7 11 26 330  9   33.4  0.147  0.406  0.012   72.  136.     -8.7  0.2720  0.72  0.30  1.00 323.0  15.0 279.2  2.0   0  0.00   75. 1014.    2 NAD-SFC NoSubs
 7 11 26 330 10   71.7  0.162  0.708  0.012  179.  156.     -5.3  0.2720  0.72  0.24  1.00 315.0  15.0 281.4  2.0   0  0.00   65. 1014.    2 NAD-SFC NoSubs
 7 11 26 330 11   97.4  0.110  0.920  0.010  289.   88.     -1.2  0.2720  0.72  0.22  0.50 301.0  15.0 283.2  2.0   0  0.00   56. 1014.    2 NAD-SFC NoSubs
 7 11 26 330 12  108.9 -9.000 -9.000 -9.000  380. -999. -99999.0  0.2235  0.72  0.21  0.00   0.0  15.0 285.2  2.0   0  0.00   48. 1013.    2 NAD-SFC NoSubs
 7 11 26 330 13  105.8  0.170  1.125  0.009  486.  168.     -4.2  0.2720  0.72  0.21  1.00 308.0  15.0 286.8  2.0   0  0.00   40. 1012.    2 NAD-SFC NoSubs
 7 11 26 330 14   88.0  0.166  1.113  0.008  565.  162.     -4.7  0.2720  0.72  0.23  1.00 322.0  15.0 287.6  2.0   0  0.00   37. 1011.    2 NAD-SFC NoSubs
 7 11 26 330 15   56.3  0.208  0.983  0.008  609.  228.    -14.5  0.2930  0.72  0.26  1.50 345.0  15.0 287.9  2.0   0  0.00   37. 1011.    2 NAD-SFC NoSubs
 7 11 26 330 16   14.3  0.183  0.628  0.008  622.  189.    -38.8  0.2930  0.72  0.36  1.50 345.0  15.0 289.2  2.0   0  0.00   41. 1010.    2 NAD-SFC NoSubs
 7 11 26 330 17   -1.6  0.082 -9.000 -9.000 -999.   62.     31.5  0.2930  0.72  0.66  0.50 344.0  15.0 288.4  2.0   0  0.00   45. 1010.    2 NAD-SFC NoSubs
 7 11 26 330 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 287.1  2.0   0  0.00   50. 1010.    2 NAD-SFC NoSubs
 7 11 26 330 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 285.8  2.0   0  0.00   56. 1010.    2 NAD-SFC NoSubs
 7 11 26 330 20   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.1900  0.72  1.00  0.50 183.0  15.0 284.6  2.0   0  0.00   61. 1010.    2 NAD-SFC NoSubs
 7 11 26 330 21   -1.5  0.080 -9.000 -9.000 -999.   55.     31.3  0.1810  0.72  1.00  0.50 161.0  15.0 283.8  2.0   0  0.00   66. 1010.    2 NAD-SFC NoSubs
 7 11 26 330 22   -1.5  0.082 -9.000 -9.000 -999.   56.     31.7  0.2090  0.72  1.00  0.50  66.0  15.0 282.8  2.0   0  0.00   70. 1009.    2 NAD-SFC NoSubs
 7 11 26 330 23   -1.6  0.083 -9.000 -9.000 -999.   58.     32.0  0.2470  0.72  1.00  0.50  56.0  15.0 282.0  2.0   0  0.00   74. 1009.    2 NAD-SFC NoSubs
 7 11 26 330 24   -1.6  0.083 -9.000 -9.000 -999.   58.     32.1  0.2470  0.72  1.00  0.50  54.0  15.0 281.4  2.0   0  0.00   76. 1009.    2 NAD-SFC NoSubs
 7 11 27 331  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 280.8  2.0   0  0.00   76. 1009.    2 NAD-SFC NoSubs
 7 11 27 331  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 280.4  2.0   0  0.00   76. 1008.    2 NAD-SFC NoSubs
 7 11 27 331  3   -1.6  0.084 -9.000 -9.000 -999.   58.     32.1  0.2470  0.72  1.00  0.50  54.0  15.0 280.0  2.0   0  0.00   77. 1008.    2 NAD-SFC NoSubs
 7 11 27 331  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 279.6  2.0   0  0.00   77. 1008.    2 NAD-SFC NoSubs
 7 11 27 331  5   -1.6  0.082 -9.000 -9.000 -999.   56.     31.8  0.2090  0.72  1.00  0.50  69.0  15.0 279.2  2.0   0  0.00   77. 1008.    2 NAD-SFC NoSubs
 7 11 27 331  6   -1.6  0.082 -9.000 -9.000 -999.   57.     31.8  0.2090  0.72  1.00  0.50  72.0  15.0 278.8  2.0   0  0.00   76. 1008.    2 NAD-SFC NoSubs
 7 11 27 331  7   -1.6  0.082 -9.000 -9.000 -999.   57.     31.8  0.2090  0.72  1.00  0.50  83.0  15.0 278.5  2.0   0  0.00   76. 1008.    2 NAD-SFC NoSubs
 7 11 27 331  8   -0.8  0.061 -9.000 -9.000 -999.   36.     25.5  0.2130  0.72  0.48  0.50  92.0  15.0 278.2  2.0   0  0.00   76. 1008.    2 NAD-SFC NoSubs
 7 11 27 331  9   32.5  0.090  0.401  0.016   71.   65.     -2.0  0.2090  0.72  0.30  0.50  66.0  15.0 279.4  2.0   0  0.00   74. 1008.    2 NAD-SFC NoSubs
 7 11 27 331 10   70.9 -9.000 -9.000 -9.000  175. -999. -99999.0  0.2235  0.72  0.24  0.00   0.0  15.0 282.2  2.0   0  0.00   63. 1008.    2 NAD-SFC NoSubs
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 7 11 27 331 11   96.8  0.108  0.921  0.012  291.   85.     -1.2  0.2470  0.72  0.22   0.50   35.0  15.0 284.4  2.0   0  0.00   55.  1008.    2 NAD-SFC NoSubs
 7 11 27 331 12  108.0  0.224  1.051  0.011  386.  255.     -9.4  0.2930  0.72  0.21   1.50  357.0  15.0 285.0  2.0   0  0.00   54.  1007.    2 NAD-SFC NoSubs
 7 11 27 331 13  104.6  0.224  1.105  0.011  464.  254.     -9.6  0.2930  0.72  0.21   1.50  338.0  15.0 285.2  2.0   0  0.00   54.  1007.    2 NAD-SFC NoSubs
 7 11 27 331 14   87.1  0.215  1.081  0.010  521.  240.    -10.3  0.2720  0.72  0.23   1.50  321.0  15.0 286.8  2.0   0  0.00   51.  1007.    2 NAD-SFC NoSubs
 7 11 27 331 15   55.7  0.260  0.952  0.010  555.  318.    -28.3  0.2720  0.72  0.26   2.10  318.0  15.0 287.6  2.0   0  0.00   50.  1006.    2 NAD-SFC NoSubs
 7 11 27 331 16   13.4  0.237  0.595  0.009  563.  278.    -89.4  0.2930  0.72  0.36   2.10  334.0  15.0 287.6  2.0   0  0.00   54.  1006.    2 NAD-SFC NoSubs
 7 11 27 331 17   -7.9  0.137 -9.000 -9.000 -999.  126.    29.2  0.2720  0.72  0.66   1.50  328.0  15.0 286.9  2.0   0  0.00   56.  1007.    2 NAD-SFC NoSubs
 7 11 27 331 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0 286.0  2.0   0  0.00   59.  1007.    2 NAD-SFC NoSubs
 7 11 27 331 19   -1.5  0.080 -9.000 -9.000 -999.   54.    31.3  0.1810  0.72  1.00   0.50  155.0  15.0 284.8  2.0   0  0.00   64.  1008.    2 NAD-SFC NoSubs
 7 11 27 331 20   -6.9  0.124 -9.000 -9.000 -999.  104.    24.8  0.1810  0.72  1.00   1.50  150.0  15.0 283.6  2.0   0  0.00   69.  1009.    2 NAD-SFC NoSubs
 7 11 27 331 21  -21.2  0.220 -9.000 -9.000 -999.  247.    45.1  0.1810  0.72  1.00   2.60  172.0  15.0 282.8  2.0   0  0.00   72.  1009.    2 NAD-SFC NoSubs
 7 11 27 331 22  -13.9  0.176 -9.000 -9.000 -999.  178.    35.7  0.1900  0.72  1.00   2.10  205.0  15.0 282.5  2.0   0  0.00   71.  1010.    2 NAD-SFC NoSubs
 7 11 27 331 23   -7.0  0.125 -9.000 -9.000 -999.  107.    25.1  0.1900  0.72  1.00   1.50  208.0  15.0 282.0  2.0   0  0.00   71.  1010.    2 NAD-SFC NoSubs
 7 11 27 331 24   -3.6  0.096 -9.000 -9.000 -999.   71.    22.0  0.1900  0.72  1.00   1.00  185.0  15.0 281.6  2.0   0  0.00   73.  1010.    2 NAD-SFC NoSubs
 7 11 28 332  1   -3.5  0.095 -9.000 -9.000 -999.   70.    21.9  0.1810  0.72  1.00   1.00  174.0  15.0 281.2  2.0   0  0.00   75.  1010.    2 NAD-SFC NoSubs
 7 11 28 332  2   -3.6  0.096 -9.000 -9.000 -999.   72.    22.1  0.1950  0.72  1.00   1.00  215.0  15.0 281.0  2.0   0  0.00   77.  1010.    2 NAD-SFC NoSubs
 7 11 28 332  3   -6.8  0.123 -9.000 -9.000 -999.  103.    24.4  0.1750  0.72  1.00   1.50  259.0  15.0 280.9  2.0   0  0.00   79.  1010.    2 NAD-SFC NoSubs
 7 11 28 332  4  -21.0  0.218 -9.000 -9.000 -999.  244.    44.3  0.1750  0.72  1.00   2.60  267.0  15.0 280.2  2.0   0  0.00   81.  1010.    2 NAD-SFC NoSubs
 7 11 28 332  5  -30.9  0.278 -9.000 -9.000 -999.  351.    62.3  0.2160  0.72  1.00   3.10  274.0  15.0 279.5  2.0   0  0.00   82.  1010.    2 NAD-SFC NoSubs
 7 11 28 332  6  -31.0  0.278 -9.000 -9.000 -999.  351.    62.1  0.2160  0.72  1.00   3.10  272.0  15.0 278.9  2.0   0  0.00   80.  1011.    2 NAD-SFC NoSubs
 7 11 28 332  7  -29.4  0.263 -9.000 -9.000 -999.  324.    55.6  0.1750  0.72  1.00   3.10  267.0  15.0 278.6  2.0   0  0.00   76.  1012.    2 NAD-SFC NoSubs
 7 11 28 332  8  -16.0  0.282 -9.000 -9.000 -999.  359.   126.3  0.2160  0.72  0.48   3.10  270.0  15.0 278.4  2.0   0  0.00   70.  1012.    2 NAD-SFC NoSubs
 7 11 28 332  9   31.7  0.236  0.437  0.012   95.  276.    -37.5  0.2160  0.72  0.30   2.10  299.0  15.0 280.2  2.0   0  0.00   59.  1012.    2 NAD-SFC NoSubs
 7 11 28 332 10   69.9  0.200  0.731  0.012  201.  214.    -10.3  0.2160  0.72  0.24   1.50  291.0  15.0 281.9  2.0   0  0.00   53.  1012.    2 NAD-SFC NoSubs
 7 11 28 332 11   95.8  0.167  0.943  0.012  316.  164.     -4.4  0.2720  0.72  0.22   1.00  304.0  15.0 284.0  2.0   0  0.00   49.  1012.    2 NAD-SFC NoSubs
 7 11 28 332 12  107.5  0.112  1.071  0.011  412.   90.     -1.2  0.2720  0.72  0.21   0.50  321.0  15.0 285.9  2.0   0  0.00   45.  1010.    2 NAD-SFC NoSubs
 7 11 28 332 13  104.6  0.172  1.129  0.011  496.  172.     -4.4  0.2930  0.72  0.21   1.00  339.0  15.0 287.8  2.0   0  0.00   41.  1009.    2 NAD-SFC NoSubs
 7 11 28 332 14   87.1  0.219  1.103  0.011  555.  246.    -10.8  0.2930  0.72  0.23   1.50  347.0  15.0 288.8  2.0   0  0.00   40.  1009.    2 NAD-SFC NoSubs
 7 11 28 332 15   55.6  0.356  0.970  0.010  591.  510.    -72.9  0.2930  0.72  0.26   3.10  360.0  15.0 289.1  2.0   0  0.00   41.  1008.    2 NAD-SFC NoSubs
 7 11 28 332 16   13.3  0.331  0.605  0.010  598.  458.   -245.8  0.2940  0.72  0.36   3.10    9.0  15.0 288.4  2.0   0  0.00   49.  1008.    2 NAD-SFC NoSubs
 7 11 28 332 17  -41.9  0.406 -9.000 -9.000 -999.  621.    143.9  0.2940  0.72  0.67   4.10   20.0  15.0 287.2  2.0   0  0.00   54.  1008.    2 NAD-SFC NoSubs
 7 11 28 332 18  -36.7  0.337 -9.000 -9.000 -999.  473.     94.1  0.2470  0.72  1.00   3.60   35.0  15.0 286.2  2.0   0  0.00   57.  1009.    2 NAD-SFC NoSubs
 7 11 28 332 19  -24.1  0.239 -9.000 -9.000 -999.  286.     50.9  0.2470  0.72  1.00   2.60   44.0  15.0 285.2  2.0   0  0.00   61.  1009.    2 NAD-SFC NoSubs
 7 11 28 332 20   -8.4  0.140 -9.000 -9.000 -999.  130.     29.2  0.2940  0.72  1.00   1.50   16.0  15.0 284.2  2.0   0  0.00   65.  1009.    2 NAD-SFC NoSubs
 7 11 28 332 21   -4.1  0.103 -9.000 -9.000 -999.   79.     23.7  0.2940  0.72  1.00   1.00    9.0  15.0 283.5  2.0   0  0.00   68.  1009.    2 NAD-SFC NoSubs
 7 11 28 332 22   -4.1  0.103 -9.000 -9.000 -999.   79.     23.6  0.2930  0.72  1.00   1.00  359.0  15.0 282.8  2.0   0  0.00   70.  1009.    2 NAD-SFC NoSubs
 7 11 28 332 23   -4.2  0.103 -9.000 -9.000 -999.   79.     23.6  0.2930  0.72  1.00   1.00  348.0  15.0 282.2  2.0   0  0.00   73.  1010.    2 NAD-SFC NoSubs
 7 11 28 332 24   -8.5  0.140 -9.000 -9.000 -999.  125.     29.0  0.2930  0.72  1.00   1.50  336.0  15.0 281.8  2.0   0  0.00   75.  1009.    2 NAD-SFC NoSubs
 7 11 29 333  1   -8.2  0.137 -9.000 -9.000 -999.  122.     28.2  0.2720  0.72  1.00   1.50  320.0  15.0 281.1  2.0   0  0.00   77.  1009.    2 NAD-SFC NoSubs
 7 11 29 333  2  -16.3  0.195 -9.000 -9.000 -999.  207.     40.9  0.2720  0.72  1.00   2.10  302.0  15.0 280.8  2.0   0  0.00   78.  1009.    2 NAD-SFC NoSubs
 7 11 29 333  3   -8.2  0.137 -9.000 -9.000 -999.  122.     28.2  0.2720  0.72  1.00   1.50  316.0  15.0 280.4  2.0   0  0.00   78.  1008.    2 NAD-SFC NoSubs
 7 11 29 333  4   -4.2  0.103 -9.000 -9.000 -999.   80.     23.6  0.2930  0.72  1.00   1.00  336.0  15.0 280.0  2.0   0  0.00   79.  1008.    2 NAD-SFC NoSubs
 7 11 29 333  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0 279.8  2.0   0  0.00   80.  1008.    2 NAD-SFC NoSubs
 7 11 29 333  6   -4.2  0.103 -9.000 -9.000 -999.   80.     23.7  0.2940  0.72  1.00   1.00    5.0  15.0 279.9  2.0   0  0.00   80.  1008.    2 NAD-SFC NoSubs
 7 11 29 333  7   -1.7  0.086 -9.000 -9.000 -999.   60.     32.4  0.2940  0.72  1.00   0.50   10.0  15.0 279.8  2.0   0  0.00   80.  1008.    2 NAD-SFC NoSubs
 7 11 29 333  8   14.5 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.49   0.00    0.0  15.0 279.8  2.0   0  0.00   80.  1008.    2 NAD-SFC NoSubs
 7 11 29 333  9   30.7  0.090  0.424  0.015   89.   64.     -2.1  0.2130  0.72  0.30   0.50   93.0  15.0 279.9  2.0   0  0.00   80.  1008.    2 NAD-SFC NoSubs
 7 11 29 333 10   69.0 -9.000 -9.000 -9.000  204. -999. -99999.0  0.2235  0.72  0.24   0.00    0.0  15.0 281.6  2.0   0  0.00   73.  1007.    2 NAD-SFC NoSubs
 7 11 29 333 11   94.9 -9.000 -9.000 -9.000  298. -999. -99999.0  0.2235  0.72  0.22   0.00    0.0  15.0 283.8  2.0   0  0.00   59.  1007.    2 NAD-SFC NoSubs
 7 11 29 333 12  106.5 -9.000 -9.000 -9.000  377. -999. -99999.0  0.2235  0.72  0.21   0.00    0.0  15.0 284.9  2.0   0  0.00   53.  1006.    2 NAD-SFC NoSubs
 7 11 29 333 13  103.4  0.169  1.092  0.011  451.  167.     -4.2  0.2720  0.72  0.21   1.00  322.0  15.0 286.0  2.0   0  0.00   51.  1006.    2 NAD-SFC NoSubs
 7 11 29 333 14   85.9  0.215  1.068  0.010  508.  239.    -10.4  0.2720  0.72  0.23   1.50  327.0  15.0 286.9  2.0   0  0.00   48.  1005.    2 NAD-SFC NoSubs
 7 11 29 333 15   54.4  0.310  0.936  0.009  540.  414.    -49.0  0.2930  0.72  0.26   2.60  345.0  15.0 286.8  2.0   0  0.00   49.  1005.    2 NAD-SFC NoSubs
 7 11 29 333 16   12.2  0.283  0.571  0.009  546.  361.   -166.2  0.2930  0.72  0.36   2.60  353.0  15.0 285.8  2.0   0  0.00   55.  1004.    2 NAD-SFC NoSubs
 7 11 29 333 17    1.9 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.67   0.00    0.0  15.0 284.8  2.0   0  0.00   59.  1004.    2 NAD-SFC NoSubs
 7 11 29 333 18   -8.4  0.140 -9.000 -9.000 -999.  126.     29.2  0.2940  0.72  1.00   1.50    6.0  15.0 284.1  2.0   0  0.00   60.  1004.    2 NAD-SFC NoSubs
 7 11 29 333 19   -1.7  0.084 -9.000 -9.000 -999.   59.     32.2  0.2720  0.72  1.00   0.50  329.0  15.0 283.8  2.0   0  0.00   62.  1004.    2 NAD-SFC NoSubs
 7 11 29 333 20   -3.7  0.097 -9.000 -9.000 -999.   73.     22.5  0.2160  0.72  1.00   1.00  297.0  15.0 283.4  2.0   0  0.00   63.  1004.    2 NAD-SFC NoSubs
 7 11 29 333 21   -4.0  0.101 -9.000 -9.000 -999.   78.     23.3  0.2720  0.72  1.00   1.00  311.0  15.0 283.2  2.0   0  0.00   64.  1004.    2 NAD-SFC NoSubs
 7 11 29 333 22   -8.1  0.137 -9.000 -9.000 -999.  122.     28.3  0.2720  0.72  1.00   1.50  328.0  15.0 283.0  2.0   0  0.00   63.  1004.    2 NAD-SFC NoSubs
 7 11 29 333 23   -8.4  0.140 -9.000 -9.000 -999.  125.     29.1  0.2930  0.72  1.00   1.50  338.0  15.0 282.9  2.0   0  0.00   62.  1003.    2 NAD-SFC NoSubs
 7 11 29 333 24   -8.4  0.140 -9.000 -9.000 -999.  125.     29.1  0.2930  0.72  1.00   1.50  343.0  15.0 282.8  2.0   0  0.00   62.  1003.    2 NAD-SFC NoSubs
 7 11 30 334  1   -8.4  0.140 -9.000 -9.000 -999.  125.     29.1  0.2930  0.72  1.00   1.50  333.0  15.0 282.8  2.0   0  0.00   61.  1003.    2 NAD-SFC NoSubs
 7 11 30 334  2   -8.1  0.137 -9.000 -9.000 -999.  122.     28.3  0.2720  0.72  1.00   1.50  322.0  15.0 282.6  2.0   0  0.00   62.  1003.    2 NAD-SFC NoSubs
 7 11 30 334  3   -8.1  0.137 -9.000 -9.000 -999.  122.     28.3  0.2720  0.72  1.00   1.50  312.0  15.0 282.5  2.0   0  0.00   66.  1003.    2 NAD-SFC NoSubs
 7 11 30 334  4   -8.1  0.137 -9.000 -9.000 -999.  122.     28.3  0.2720  0.72  1.00   1.50  300.0  15.0 282.2  2.0   0  0.00   72.  1003.    2 NAD-SFC NoSubs
 7 11 30 334  5   -3.7  0.098 -9.000 -9.000 -999.   73.     22.5  0.2160  0.72  1.00   1.00  298.0  15.0 282.0  2.0   0  0.00   76.  1003.    2 NAD-SFC NoSubs
 7 11 30 334  6   -4.0  0.102 -9.000 -9.000 -999.   78.     23.3  0.2720  0.72  1.00   1.00  317.0  15.0 281.8  2.0   0  0.00   80.  1003.    2 NAD-SFC NoSubs
 7 11 30 334  7   -1.7  0.084 -9.000 -9.000 -999.   59.     32.2  0.2720  0.72  1.00   0.50  301.0  15.0 281.4  2.0   0  0.00   83.  1003.    2 NAD-SFC NoSubs
 7 11 30 334  8   -0.9  0.064 -9.000 -9.000 -999.   39.     26.3  0.2160  0.72  0.49   0.50  284.0  15.0 281.2  2.0   0  0.00   84.  1003.    2 NAD-SFC NoSubs
 7 11 30 334  9   30.2  0.193  0.521  0.010  167.  203.    -21.3  0.2720  0.72  0.31   1.50  316.0  15.0 282.0  2.0   0  0.00   79.  1003.    2 NAD-SFC NoSubs
 7 11 30 334 10   68.3  0.316  0.815  0.008  283.  426.    -41.2  0.2930  0.72  0.24   2.60  338.0  15.0 282.8  2.0   0  0.00   70.  1003.    2 NAD-SFC NoSubs
 7 11 30 334 11   94.0  0.324  1.002  0.008  383.  443.    -32.3  0.2930  0.72  0.22   2.60  336.0  15.0 283.5  2.0   0  0.00   62.  1002.    2 NAD-SFC NoSubs
 7 11 30 334 12  105.5  0.327  1.135  0.008  495.  449.    -29.7  0.2930  0.72  0.21   2.60  345.0  15.0 284.0  2.0   0  0.00   56.  1001.    2 NAD-SFC NoSubs
 7 11 30 334 13  103.1  0.321  1.192  0.008  586.  437.    -28.7  0.2720  0.72  0.21   2.60  328.0  15.0 284.2  2.0   0  0.00   53.  1001.    3 NAD-SFC NoSubs
 7 11 30 334 14   85.6  0.321  1.161  0.008  652.  437.    -34.6  0.2930  0.72  0.23   2.60  332.0  15.0 284.2  2.0   0  0.00   51.  1000.    3 NAD-SFC NoSubs
 7 11 30 334 15   54.6  0.350  1.020  0.007  693.  496.    -69.9  0.2720  0.72  0.26   3.10  328.0  15.0 284.2  2.0   0  0.00   51.   999.    3 NAD-SFC NoSubs
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 7 11 30 334 16   13.1  0.279  0.637  0.007  702.  356.   -147.5  0.2720  0.72  0.36   2.60  316.0  15.0  284.0  2.0   0  0.00  57.   998.   3 NAD-SFC NoSubs
 7 11 30 334 17  -24.6  0.246 -9.000 -9.000 -999.  293.     53.9  0.2720  0.72  0.67   2.60  314.0  15.0  283.5  2.0   0  0.00  57.   998.   2 NAD-SFC NoSubs
 7 11 30 334 18  -14.5  0.183 -9.000 -9.000 -999.  189.     37.5  0.2160  0.72  1.00   2.10  296.0  15.0  283.0  2.0   0  0.00  57.   998.   2 NAD-SFC NoSubs
 7 11 30 334 19  -22.6  0.230 -9.000 -9.000 -999.  265.     48.1  0.2160  0.72  1.00   2.60  276.0  15.0  282.4  2.0   0  0.00  58.   998.   2 NAD-SFC NoSubs
 7 11 30 334 20  -30.4  0.278 -9.000 -9.000 -999.  351.     62.7  0.2160  0.72  1.00   3.10  295.0  15.0  281.2  2.0   0  0.00  62.   998.   2 NAD-SFC NoSubs
 7 11 30 334 21  -32.5  0.296 -9.000 -9.000 -999.  387.     71.0  0.2720  0.72  1.00   3.10  301.0  15.0  280.1  2.0   0  0.00  66.   998.   2 NAD-SFC NoSubs
 7 11 30 334 22  -25.0  0.246 -9.000 -9.000 -999.  294.     53.0  0.2720  0.72  1.00   2.60  314.0  15.0  279.2  2.0   0  0.00  69.   998.   3 NAD-SFC NoSubs
 7 11 30 334 23  -25.0  0.246 -9.000 -9.000 -999.  293.     52.9  0.2720  0.72  1.00   2.60  300.0  15.0  278.8  2.0   0  0.00  71.   998.   3 NAD-SFC NoSubs
 7 11 30 334 24  -14.4  0.183 -9.000 -9.000 -999.  189.     37.7  0.2160  0.72  1.00   2.10  294.0  15.0  278.2  2.0   0  0.00  72.   998.   3 NAD-SFC NoSubs
 7 12  1 335  1  -10.0  0.145 -9.000 -9.000 -999.  132.     27.0  0.0800  0.72  1.00   2.10  305.0  15.0  277.9  2.0   0  0.00  73.   998.   3 NAD-SFC NoSubs
 7 12  1 335  2   -5.2  0.105 -9.000 -9.000 -999.   82.     19.9  0.0800  0.72  1.00   1.50  301.0  15.0  277.6  2.0   0  0.00  75.   999.   3 NAD-SFC NoSubs
 7 12  1 335  3   -2.8  0.085 -9.000 -9.000 -999.   59.     19.5  0.0800  0.72  1.00   1.00  312.0  15.0  277.2  2.0   0  0.00  78.  1000.   3 NAD-SFC NoSubs
 7 12  1 335  4   -1.2  0.073 -9.000 -9.000 -999.   48.     29.2  0.0800  0.72  1.00   0.50  314.0  15.0  276.8  2.0   0  0.00  82.  1000.   3 NAD-SFC NoSubs
 7 12  1 335  5   -1.3  0.075 -9.000 -9.000 -999.   49.     29.7  0.0950  0.72  1.00   0.50  331.0  15.0  276.2  2.0   0  0.00  86.  1001.   3 NAD-SFC NoSubs
 7 12  1 335  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  275.9  2.0   0  0.00  89.  1002.   4 NAD-SFC NoSubs
 7 12  1 335  7   -0.9  0.063 -9.000 -9.000 -999.   38.     25.4  0.0240  0.72  1.00   0.50  165.0  15.0  275.5  2.0   0  0.00  92.  1003.   5 NAD-SFC NoSubs
 7 12  1 335  8   -1.2  0.060 -9.000 -9.000 -999.   35.     15.5  0.0240  0.72  0.49   1.00  170.0  15.0  275.2  2.0   0  0.00  93.  1004.   4 NAD-SFC NoSubs
 7 12  1 335  9   31.6  0.059  0.514  0.005  154.   34.     -1.0  0.0220  0.72  0.30   0.50  188.0  15.0  277.2  2.0   0  0.00  83.  1005.   4 NAD-SFC NoSubs
 7 12  1 335 10   69.2 -9.000 -9.000 -9.000  375. -999. -99999.0  0.0471  0.72  0.23   0.00    0.0  15.0  279.2  2.0   0  0.00  75.  1006.   4 NAD-SFC NoSubs
 7 12  1 335 11   95.0 -9.000 -9.000 -9.000  566. -999. -99999.0  0.0471  0.72  0.21   0.00    0.0  15.0  280.4  2.0   0  0.00  68.  1007.   3 NAD-SFC NoSubs
 7 12  1 335 12  106.7 -9.000 -9.000 -9.000  759. -999. -99999.0  0.0471  0.72  0.20   0.00    0.0  15.0  281.6  2.0   0  0.00  62.  1007.   3 NAD-SFC NoSubs
 7 12  1 335 13  103.8 -9.000 -9.000 -9.000  943. -999. -99999.0  0.0471  0.72  0.21   0.00    0.0  15.0  282.6  2.0   0  0.00  57.  1007.   3 NAD-SFC NoSubs
 7 12  1 335 14   86.3  0.087  1.355  0.006 1037.   62.     -1.0  0.0960  0.72  0.22   0.50    5.0  15.0  283.2  2.0   0  0.00  53.  1007.   3 NAD-SFC NoSubs
 7 12  1 335 15   55.0  0.166  1.186  0.006 1088.  163.     -7.5  0.0960  0.72  0.25   1.50    6.0  15.0  283.5  2.0   0  0.00  51.  1007.   3 NAD-SFC NoSubs
 7 12  1 335 16   13.2  0.211  0.740  0.006 1099.  232.    -63.6  0.0650  0.72  0.36   2.60   30.0  15.0  283.5  2.0   0  0.00  41.  1007.   3 NAD-SFC NoSubs
 7 12  1 335 17  -20.6  0.212 -9.000 -9.000 -999.  234.     41.4  0.0650  0.72  0.67   3.10   32.0  15.0  282.8  2.0   0  0.00  45.  1007.   3 NAD-SFC NoSubs
 7 12  1 335 18  -20.7  0.212 -9.000 -9.000 -999.  234.     41.2  0.0650  0.72  1.00   3.10   39.0  15.0  282.0  2.0   0  0.00  46.  1009.   4 NAD-SFC NoSubs
 7 12  1 335 19  -12.5  0.160 -9.000 -9.000 -999.  154.     29.3  0.0400  0.72  1.00   2.60   62.0  15.0  281.2  2.0   0  0.00  47.  1009.   4 NAD-SFC NoSubs
 7 12  1 335 20  -11.7  0.153 -9.000 -9.000 -999.  143.     27.4  0.0310  0.72  1.00   2.60   94.0  15.0  280.2  2.0   0  0.00  49.  1010.   4 NAD-SFC NoSubs
 7 12  1 335 21  -11.8  0.153 -9.000 -9.000 -999.  143.     27.3  0.0310  0.72  1.00   2.60  114.0  15.0  279.5  2.0   0  0.00  52.  1011.   4 NAD-SFC NoSubs
 7 12  1 335 22  -11.8  0.153 -9.000 -9.000 -999.  143.     27.3  0.0310  0.72  1.00   2.60  119.0  15.0  278.9  2.0   0  0.00  54.  1011.   4 NAD-SFC NoSubs
 7 12  1 335 23  -11.5  0.150 -9.000 -9.000 -999.  140.     26.6  0.0280  0.72  1.00   2.60  131.0  15.0  278.4  2.0   0  0.00  57.  1012.   4 NAD-SFC NoSubs
 7 12  1 335 24   -7.5  0.120 -9.000 -9.000 -999.   99.     20.5  0.0280  0.72  1.00   2.10  144.0  15.0  278.0  2.0   0  0.00  58.  1012.   3 NAD-SFC NoSubs
 7 12  2 336  1   -4.0  0.090 -9.000 -9.000 -999.   65.     16.1  0.0280  0.72  1.00   1.50  136.0  15.0  277.8  2.0   0  0.00  60.  1012.   3 NAD-SFC NoSubs
 7 12  2 336  2   -2.3  0.076 -9.000 -9.000 -999.   50.     17.2  0.0280  0.72  1.00   1.00  132.0  15.0  277.5  2.0   0  0.00  62.  1013.   3 NAD-SFC NoSubs
 7 12  2 336  3   -1.0  0.067 -9.000 -9.000 -999.   42.     26.8  0.0310  0.72  1.00   0.50  101.0  15.0  277.5  2.0   0  0.00  63.  1013.   3 NAD-SFC NoSubs
 7 12  2 336  4   -2.5  0.079 -9.000 -9.000 -999.   53.     18.0  0.0400  0.72  1.00   1.00   74.0  15.0  277.5  2.0   0  0.00  64.  1013.   2 NAD-SFC NoSubs
 7 12  2 336  5   -4.5  0.095 -9.000 -9.000 -999.   70.     17.1  0.0400  0.72  1.00   1.50   71.0  15.0  277.5  2.0   0  0.00  64.  1014.   2 NAD-SFC NoSubs
 7 12  2 336  6   -8.4  0.127 -9.000 -9.000 -999.  108.     22.0  0.0400  0.72  1.00   2.10   87.0  15.0  277.8  2.0   0  0.00  62.  1014.   2 NAD-SFC NoSubs
 7 12  2 336  7   -4.2  0.091 -9.000 -9.000 -999.   66.     16.4  0.0310  0.72  1.00   1.50  115.0  15.0  278.0  2.0   0  0.00  59.  1015.   2 NAD-SFC NoSubs
 7 12  2 336  8   -1.5  0.064 -9.000 -9.000 -999.   39.     15.9  0.0280  0.72  0.50   1.00  131.0  15.0  278.1  2.0   0  0.00  59.  1016.   2 NAD-SFC NoSubs
 7 12  2 336  9   28.7  0.095  0.417  0.007   92.   71.     -2.7  0.0280  0.72  0.30   1.00  128.0  15.0  278.8  2.0   0  0.00  58.  1017.   2 NAD-SFC NoSubs
 7 12  2 336 10   67.5  0.138  0.781  0.005  256.  123.     -3.5  0.0280  0.72  0.23   1.50  141.0  15.0  281.2  2.0   0  0.00  44.  1018.   2 NAD-SFC NoSubs
 7 12  2 336 11   93.8  0.106  1.017  0.005  407.   83.     -1.1  0.0240  0.72  0.21   1.00  155.0  15.0  283.0  2.0   0  0.00  40.  1018.   2 NAD-SFC NoSubs
 7 12  2 336 12  105.9 -9.000 -9.000 -9.000  610. -999. -99999.0  0.0471  0.72  0.20   0.00    0.0  15.0  284.8  2.0   0  0.00  36.  1018.   2 NAD-SFC NoSubs
 7 12  2 336 13  103.2 -9.000 -9.000 -9.000  750. -999. -99999.0  0.0471  0.72  0.21   0.00    0.0  15.0  286.0  2.0   0  0.00  34.  1017.   2 NAD-SFC NoSubs
 7 12  2 336 14   85.7 -9.000 -9.000 -9.000  846. -999. -99999.0  0.0471  0.72  0.22   0.00    0.0  15.0  286.8  2.0   0  0.00  34.  1017.   2 NAD-SFC NoSubs
 7 12  2 336 15   54.3  0.082  1.105  0.005  902.   56.     -1.0  0.0950  0.72  0.25   0.50  344.0  15.0  287.1  2.0   0  0.00  34.  1017.   2 NAD-SFC NoSubs
 7 12  2 336 16   12.2  0.144  0.675  0.005  914.  132.    -22.4  0.0950  0.72  0.36   1.50  352.0  15.0  287.0  2.0   0  0.00  37.  1016.   2 NAD-SFC NoSubs
 7 12  2 336 17    0.7 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.67   0.00    0.0  15.0  286.2  2.0   0  0.00  40.  1016.   2 NAD-SFC NoSubs
 7 12  2 336 18  -10.8  0.150 -9.000 -9.000 -999.  140.     28.6  0.0960  0.72  1.00   2.10   19.0  15.0  285.0  2.0   0  0.00  44.  1017.   2 NAD-SFC NoSubs
 7 12  2 336 19   -9.5  0.139 -9.000 -9.000 -999.  124.     25.4  0.0650  0.72  1.00   2.10   44.0  15.0  283.8  2.0   0  0.00  47.  1017.   2 NAD-SFC NoSubs
 7 12  2 336 20   -5.0  0.102 -9.000 -9.000 -999.   78.     19.0  0.0650  0.72  1.00   1.50   58.0  15.0  282.9  2.0   0  0.00  50.  1018.   2 NAD-SFC NoSubs
 7 12  2 336 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  282.0  2.0   0  0.00  54.  1018.   2 NAD-SFC NoSubs
 7 12  2 336 22   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0420  0.72  1.00   0.50  292.0  15.0  281.2  2.0   0  0.00  58.  1019.   2 NAD-SFC NoSubs
 7 12  2 336 23   -1.2  0.074 -9.000 -9.000 -999.   48.     29.3  0.0800  0.72  1.00   0.50  303.0  15.0  280.6  2.0   0  0.00  63.  1019.   2 NAD-SFC NoSubs
 7 12  2 336 24   -1.3  0.075 -9.000 -9.000 -999.   49.     29.8  0.0950  0.72  1.00   0.50  336.0  15.0  280.1  2.0   0  0.00  66.  1019.   2 NAD-SFC NoSubs
 7 12  3 337  1   -3.0  0.087 -9.000 -9.000 -999.   62.     20.0  0.0950  0.72  1.00   1.00  353.0  15.0  279.9  2.0   0  0.00  66.  1019.   2 NAD-SFC NoSubs
 7 12  3 337  2   -3.0  0.087 -9.000 -9.000 -999.   62.     20.0  0.0950  0.72  1.00   1.00  333.0  15.0  279.6  2.0   0  0.00  67.  1019.   2 NAD-SFC NoSubs
 7 12  3 337  3   -3.0  0.087 -9.000 -9.000 -999.   62.     20.0  0.0950  0.72  1.00   1.00  343.0  15.0  279.2  2.0   0  0.00  69.  1019.   2 NAD-SFC NoSubs
 7 12  3 337  4   -3.0  0.087 -9.000 -9.000 -999.   62.     20.0  0.0950  0.72  1.00   1.00  354.0  15.0  278.9  2.0   0  0.00  69.  1019.   2 NAD-SFC NoSubs
 7 12  3 337  5   -3.0  0.087 -9.000 -9.000 -999.   62.     20.0  0.0950  0.72  1.00   1.00  347.0  15.0  278.8  2.0   0  0.00  69.  1019.   2 NAD-SFC NoSubs
 7 12  3 337  6   -1.3  0.075 -9.000 -9.000 -999.   50.     29.9  0.0950  0.72  1.00   0.50  350.0  15.0  278.6  2.0   0  0.00  69.  1019.   2 NAD-SFC NoSubs
 7 12  3 337  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  278.2  2.0   0  0.00  69.  1020.   2 NAD-SFC NoSubs
 7 12  3 337  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.50   0.00    0.0  15.0  278.1  2.0   0  0.00  70.  1020.   2 NAD-SFC NoSubs
 7 12  3 337  9   27.9 -9.000 -9.000 -9.000   64. -999. -99999.0  0.0471  0.72  0.30   0.00    0.0  15.0  279.2  2.0   0  0.00  70.  1020.   2 NAD-SFC NoSubs
 7 12  3 337 10   67.1 -9.000 -9.000 -9.000  158. -999. -99999.0  0.0471  0.72  0.24   0.00    0.0  15.0  283.0  2.0   0  0.00  46.  1020.   2 NAD-SFC NoSubs
 7 12  3 337 11   93.5 -9.000 -9.000 -9.000  273. -999. -99999.0  0.0471  0.72  0.21   0.00    0.0  15.0  284.9  2.0   0  0.00  42.  1020.   2 NAD-SFC NoSubs
 7 12  3 337 12  105.7 -9.000 -9.000 -9.000  376. -999. -99999.0  0.0471  0.72  0.20   0.00    0.0  15.0  286.8  2.0   0  0.00  38.  1020.   2 NAD-SFC NoSubs
 7 12  3 337 13  103.2 -9.000 -9.000 -9.000  478. -999. -99999.0  0.0471  0.72  0.21   0.00    0.0  15.0  288.0  2.0   0  0.00  37.  1019.   2 NAD-SFC NoSubs
 7 12  3 337 14   85.9 -9.000 -9.000 -9.000  552. -999. -99999.0  0.0471  0.72  0.22   0.00    0.0  15.0  289.0  2.0   0  0.00  36.  1018.   2 NAD-SFC NoSubs
 7 12  3 337 15   54.6 -9.000 -9.000 -9.000  595. -999. -99999.0  0.0471  0.72  0.25   0.00    0.0  15.0  289.4  2.0   0  0.00  36.  1018.   2 NAD-SFC NoSubs
 7 12  3 337 16   12.6 -9.000 -9.000 -9.000  604. -999. -99999.0  0.0471  0.72  0.36   0.00    0.0  15.0  289.2  2.0   0  0.00  38.  1017.   2 NAD-SFC NoSubs
 7 12  3 337 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.67   0.00    0.0  15.0  288.2  2.0   0  0.00  44.  1017.   2 NAD-SFC NoSubs
 7 12  3 337 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  286.9  2.0   0  0.00  50.  1017.   2 NAD-SFC NoSubs
 7 12  3 337 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  285.8  2.0   0  0.00  55.  1017.   2 NAD-SFC NoSubs
 7 12  3 337 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  284.6  2.0   0  0.00  60.  1017.   2 NAD-SFC NoSubs
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 7 12  3 337 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 283.8 2.0  0 0.00 64. 1017.  2 NAD-SFC NoSubs
 7 12  3 337 22   -1.1  0.069 -9.000 -9.000 -999.  43.     27.5  0.0400 0.72 1.00 0.50  83.0 15.0 282.9 2.0  0 0.00 68. 1017.  2 NAD-SFC NoSubs
 7 12  3 337 23   -1.1  0.069 -9.000 -9.000 -999.  43.     27.5  0.0400 0.72 1.00 0.50  82.0 15.0 282.2 2.0  0 0.00 72. 1017.  2 NAD-SFC NoSubs
 7 12  3 337 24   -1.0  0.067 -9.000 -9.000 -999.  42.     26.9  0.0310 0.72 1.00 0.50  95.0 15.0 281.8 2.0  0 0.00 74. 1017.  2 NAD-SFC NoSubs
 7 12  4 338  1   -1.0  0.067 -9.000 -9.000 -999.  42.     26.9  0.0310 0.72 1.00 0.50  99.0 15.0 281.2 2.0  0 0.00 76. 1017.  2 NAD-SFC NoSubs
 7 12  4 338  2   -2.4  0.077 -9.000 -9.000 -999.  51.     17.4  0.0310 0.72 1.00 1.00 109.0 15.0 280.9 2.0  0 0.00 78. 1016.  2 NAD-SFC NoSubs
 7 12  4 338  3   -4.2  0.091 -9.000 -9.000 -999.  66.     16.4  0.0310 0.72 1.00 1.50 118.0 15.0 280.8 2.0  0 0.00 78. 1016.  2 NAD-SFC NoSubs
 7 12  4 338  4   -4.2  0.091 -9.000 -9.000 -999.  66.     16.4  0.0310 0.72 1.00 1.50 116.0 15.0 280.6 2.0  0 0.00 77. 1016.  2 NAD-SFC NoSubs
 7 12  4 338  5   -4.2  0.091 -9.000 -9.000 -999.  66.     16.4  0.0310 0.72 1.00 1.50 119.0 15.0 280.5 2.0  0 0.00 76. 1016.  2 NAD-SFC NoSubs
 7 12  4 338  6   -4.2  0.091 -9.000 -9.000 -999.  66.     16.4  0.0310 0.72 1.00 1.50 118.0 15.0 280.2 2.0  0 0.00 76. 1016.  2 NAD-SFC NoSubs
 7 12  4 338  7   -2.3  0.076 -9.000 -9.000 -999.  50.     17.2  0.0280 0.72 1.00 1.00 120.0 15.0 280.1 2.0  0 0.00 76. 1016.  2 NAD-SFC NoSubs
 7 12  4 338  8   -1.6  0.066 -9.000 -9.000 -999.  41.     16.2  0.0310 0.72 0.51 1.00 117.0 15.0 280.0 2.0  0 0.00 76. 1016.  2 NAD-SFC NoSubs
 7 12  4 338  9   27.4  0.061  0.359  0.014  61.   36.     -1.0  0.0310 0.72 0.31 0.50 104.0 15.0 281.2 2.0  0 0.00 73. 1016.  2 NAD-SFC NoSubs
 7 12  4 338 10   67.9 -9.000 -9.000 -9.000 167. -999. -99999.0 0.0471 0.72 0.24 0.00   0.0 15.0 285.1 2.0  0 0.00 56. 1016.  3 NAD-SFC NoSubs
 7 12  4 338 11   94.4 -9.000 -9.000 -9.000 308. -999. -99999.0 0.0471 0.72 0.21 0.00   0.0 15.0 287.5 2.0  0 0.00 47. 1015.  3 NAD-SFC NoSubs
 7 12  4 338 12  106.6 -9.000 -9.000 -9.000 421. -999. -99999.0 0.0471 0.72 0.20 0.00   0.0 15.0 289.1 2.0  0 0.00 43. 1014.  3 NAD-SFC NoSubs
 7 12  4 338 13  104.2 -9.000 -9.000 -9.000 506. -999. -99999.0 0.0471 0.72 0.21 0.00   0.0 15.0 290.4 2.0  0 0.00 40. 1012.  3 NAD-SFC NoSubs
 7 12  4 338 14   87.1 -9.000 -9.000 -9.000 566. -999. -99999.0 0.0471 0.72 0.22 0.00   0.0 15.0 291.1 2.0  0 0.00 38. 1011.  3 NAD-SFC NoSubs
 7 12  4 338 15   56.2  0.127  0.979  0.010 602.  108.     -3.3  0.0950 0.72 0.26 1.00 337.0 15.0 291.1 2.0  0 0.00 39. 1010.  3 NAD-SFC NoSubs
 7 12  4 338 16   14.5  0.147  0.627  0.010 611.  135.    -19.5  0.0950 0.72 0.36 1.50 357.0 15.0 290.5 2.0  0 0.00 45. 1009.  3 NAD-SFC NoSubs
 7 12  4 338 17  -10.3  0.151 -9.000 -9.000 -999.  140.    30.0  0.0960 0.72 0.67 2.10  24.0 15.0 289.2 2.0  0 0.00 51. 1008.  3 NAD-SFC NoSubs
 7 12  4 338 18   -4.8  0.101 -9.000 -9.000 -999.  77.     19.2  0.0650 0.72 1.00 1.50  37.0 15.0 288.2 2.0  0 0.00 56. 1008.  3 NAD-SFC NoSubs
 7 12  4 338 19   -1.0  0.068 -9.000 -9.000 -999.  42.     27.1  0.0400 0.72 1.00 0.50  72.0 15.0 287.4 2.0  0 0.00 60. 1008.  3 NAD-SFC NoSubs
 7 12  4 338 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 286.8 2.0  0 0.00 64. 1008.  3 NAD-SFC NoSubs
 7 12  4 338 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 286.2 2.0  0 0.00 67. 1008.  3 NAD-SFC NoSubs
 7 12  4 338 22   -1.0  0.066 -9.000 -9.000 -999.  41.     26.5  0.0310 0.72 1.00 0.50 109.0 15.0 286.0 2.0  0 0.00 68. 1008.  3 NAD-SFC NoSubs
 7 12  4 338 23   -1.0  0.066 -9.000 -9.000 -999.  41.     26.5  0.0310 0.72 1.00 0.50 117.0 15.0 285.9 2.0  0 0.00 69. 1008.  3 NAD-SFC NoSubs
 7 12  4 338 24   -1.0  0.068 -9.000 -9.000 -999.  42.     27.1  0.0400 0.72 1.00 0.50  78.0 15.0 285.8 2.0  0 0.00 70. 1007.  3 NAD-SFC NoSubs
 7 12  5 339  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 285.8 2.0  0 0.00 72. 1006.  3 NAD-SFC NoSubs
 7 12  5 339  2   -1.0  0.068 -9.000 -9.000 -999.  42.     27.1  0.0400 0.72 1.00 0.50  83.0 15.0 285.5 2.0  0 0.00 73. 1006.  3 NAD-SFC NoSubs
 7 12  5 339  3   -1.0  0.066 -9.000 -9.000 -999.  41.     26.5  0.0310 0.72 1.00 0.50 104.0 15.0 285.2 2.0  0 0.00 75. 1006.  3 NAD-SFC NoSubs
 7 12  5 339  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 285.2 2.0  0 0.00 75. 1005.  3 NAD-SFC NoSubs
 7 12  5 339  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 285.0 2.0  0 0.00 76. 1005.  4 NAD-SFC NoSubs
 7 12  5 339  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 284.8 2.0  0 0.00 77. 1005.  5 NAD-SFC NoSubs
 7 12  5 339  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 284.2 2.0  0 0.00 79. 1005.  5 NAD-SFC NoSubs
 7 12  5 339  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 0.51 0.00   0.0 15.0 284.1 2.0  0 0.00 81. 1005.  5 NAD-SFC NoSubs
 7 12  5 339  9   30.0  0.058  0.426  0.008  92.   33.     -1.0  0.0200 0.72 0.31 0.50 262.0 15.0 285.4 2.0  0 0.00 77. 1005.  5 NAD-SFC NoSubs
 7 12  5 339 10   66.3  0.112  0.782  0.009 258.   90.     -1.9  0.0420 0.72 0.24 1.00 287.0 15.0 287.0 2.0  0 0.00 75. 1005.  5 NAD-SFC NoSubs
 7 12  5 339 11   90.7  0.152  0.999  0.010 394.  142.     -3.5  0.0420 0.72 0.21 1.50 293.0 15.0 287.2 2.0  0 0.00 81. 1005.  5 NAD-SFC NoSubs
 7 12  5 339 12  104.8  0.218  1.158  0.011 531.  244.     -8.8  0.0800 0.72 0.20 2.10 302.0 15.0 287.6 2.0  0 0.00 85. 1004.  4 NAD-SFC NoSubs
 7 12  5 339 13  102.3  0.195  1.221  0.012 637.  206.     -6.4  0.0420 0.72 0.21 2.10 288.0 15.0 288.0 2.0  0 0.00 86. 1003.  4 NAD-SFC NoSubs
 7 12  5 339 14   86.1  0.169  1.183  0.012 688.  167.     -5.0  0.0800 0.72 0.22 1.50 300.0 15.0 289.1 2.0  0 0.00 81. 1003.  3 NAD-SFC NoSubs
 7 12  5 339 15   55.4  0.161  1.034  0.012 714.  155.     -6.7  0.0800 0.72 0.26 1.50 324.0 15.0 289.8 2.0  0 0.00 78. 1002.  3 NAD-SFC NoSubs
 7 12  5 339 16   14.2  0.109  0.659  0.012 720.   87.     -8.2  0.0950 0.72 0.36 1.00 346.0 15.0 290.0 2.0  0 0.00 78. 1002.  3 NAD-SFC NoSubs
 7 12  5 339 17   -1.2  0.072 -9.000 -9.000 -999.  47.     28.8  0.0960 0.72 0.67 0.50  18.0 15.0 289.2 2.0  0 0.00 81. 1002.  3 NAD-SFC NoSubs
 7 12  5 339 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 288.4 2.0  0 0.00 85. 1002.  3 NAD-SFC NoSubs
 7 12  5 339 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 287.4 2.0  0 0.00 91. 1002.  2 NAD-SFC NoSubs
 7 12  5 339 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 286.4 2.0  0 0.00 96. 1002.  2 NAD-SFC NoSubs
 7 12  5 339 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 285.8 2.0  0 0.00 100. 1003.  2 NAD-SFC NoSubs
 7 12  5 339 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 283.9 2.0  0 0.00 100. 1003.  2 NAD-SFC NoSubs
 7 12  5 339 23   -1.0  0.065 -9.000 -9.000 -999.  40.     26.1  0.0220 0.72 1.00 0.50 206.0 15.0 282.5 2.0  0 0.00 100. 1003.  2 NAD-SFC NoSubs
 7 12  5 339 24   -2.8  0.085 -9.000 -9.000 -999.  59.     19.5  0.0800 0.72 1.00 1.00 310.0 15.0 283.1 2.0  0 0.00 100. 1003.  2 NAD-SFC NoSubs
 7 12  6 340  1   -5.2  0.105 -9.000 -9.000 -999.  82.     19.9  0.0800 0.72 1.00 1.50 320.0 15.0 283.4 2.0  0 0.00 100. 1003.  2 NAD-SFC NoSubs
 7 12  6 340  2  -10.0  0.145 -9.000 -9.000 -999. 132.     27.0  0.0800 0.72 1.00 2.10 314.0 15.0 283.6 2.0  0 0.00 100. 1002.  2 NAD-SFC NoSubs
 7 12  6 340  3  -10.0  0.145 -9.000 -9.000 -999. 132.     26.9  0.0800 0.72 1.00 2.10 308.0 15.0 283.2 2.0  0 0.00 100. 1002.  2 NAD-SFC NoSubs
 7 12  6 340  4  -10.0  0.145 -9.000 -9.000 -999. 132.     26.9  0.0800 0.72 1.00 2.10 308.0 15.0 283.1 2.0  0 0.00 100. 1002.  2 NAD-SFC NoSubs
 7 12  6 340  5  -10.0  0.145 -9.000 -9.000 -999. 132.     26.9  0.0800 0.72 1.00 2.10 314.0 15.0 282.9 2.0  0 0.00 100. 1002.  2 NAD-SFC NoSubs
 7 12  6 340  6   -5.2  0.105 -9.000 -9.000 -999.  82.     19.9  0.0800 0.72 1.00 1.50 308.0 15.0 282.8 2.0  0 0.00 100. 1002.  2 NAD-SFC NoSubs
 7 12  6 340  7   -5.2  0.105 -9.000 -9.000 -999.  82.     19.9  0.0800 0.72 1.00 1.50 324.0 15.0 282.8 2.0  0 0.00 100. 1002.  2 NAD-SFC NoSubs
 7 12  6 340  8   -2.0  0.075 -9.000 -9.000 -999.  50.     18.8  0.0800 0.72 0.52 1.00 326.0 15.0 282.8 2.0  0 0.00 100. 1002.  2 NAD-SFC NoSubs
 7 12  6 340  9   26.2  0.117  0.473  0.011 144.  95.     -5.4  0.0950 0.72 0.31 1.00 344.0 15.0 282.9 2.0  0 0.00 100. 1002.  2 NAD-SFC NoSubs
 7 12  6 340 10   64.8  0.129  0.769  0.011 251. 111.     -3.0  0.0950 0.72 0.24 1.00 346.0 15.0 283.2 2.0  0 0.00 100. 1002.  2 NAD-SFC NoSubs
 7 12  6 340 11   91.1  0.088  1.008  0.013 402.  63.     -1.0  0.0960 0.72 0.21 0.50  12.0 15.0 283.8 2.0  0 0.00 97. 1002.  2 NAD-SFC NoSubs
 7 12  6 340 12  103.3  0.083  1.120  0.013 486.  58.     -1.0  0.0650 0.72 0.21 0.50  34.0 15.0 284.5 2.0  0 0.00 94. 1001.  2 NAD-SFC NoSubs
 7 12  6 340 13  101.6  0.083  1.166  0.013 557.  57.     -1.0  0.0650 0.72 0.21 0.50  41.0 15.0 284.9 2.0  0 0.00 92. 1001.  3 NAD-SFC NoSubs
 7 12  6 340 14   84.5  0.074  1.130  0.013 610.  48.     -1.0  0.0400 0.72 0.22 0.50  63.0 15.0 285.1 2.0  0 0.00 92. 1000.  3 NAD-SFC NoSubs
 7 12  6 340 15   54.1 -9.000 -9.000 -9.000 641. -999. -99999.0 0.0471 0.72 0.26 0.00   0.0 15.0 285.0 2.0  0 0.25 95. 1000.  4 NAD-SFC NoSubs
 7 12  6 340 16   14.1  0.054  0.636  0.013 650.  30.     -1.0  0.0220 0.72 0.36 0.50 188.0 15.0 286.0 2.0  0 0.51 99.  999.  4 NAD-SFC NoSubs
 7 12  6 340 17   -0.8  0.059 -9.000 -9.000 -999.  35.     24.1  0.0240 0.72 0.67 0.50 168.0 15.0 285.9 2.0  0 1.02 100.  999.  6 NAD-SFC NoSubs
 7 12  6 340 18   -3.1  0.084 -9.000 -9.000 -999.  58.     17.2  0.0240 0.72 1.00 1.50 171.0 15.0 286.0 2.0  0 1.02 100.  999.  8 NAD-SFC NoSubs
 7 12  6 340 19   -8.1  0.150 -9.000 -9.000 -999. 140.     37.0  0.0240 0.72 1.00 2.60 172.0 15.0 286.0 2.0  0 1.02 100.  999. 10 NAD-SFC NoSubs
 7 12  6 340 20  -11.6  0.211 -9.000 -9.000 -999. 233.     72.4  0.0240 0.72 1.00 3.60 174.0 15.0 286.0 2.0  0 0.25 99.  999. 10 NAD-SFC NoSubs
 7 12  6 340 21  -11.6  0.211 -9.000 -9.000 -999. 233.     72.4  0.0240 0.72 1.00 3.60 169.0 15.0 286.0 2.0  0 0.25 96.  999. 10 NAD-SFC NoSubs
 7 12  6 340 22   -9.8  0.178 -9.000 -9.000 -999. 181.     51.5  0.0220 0.72 1.00 3.10 183.0 15.0 286.1 2.0  0 0.25 93.  999. 10 NAD-SFC NoSubs
 7 12  6 340 23   -5.4  0.122 -9.000 -9.000 -999. 103.     30.0  0.0280 0.72 1.00 2.10 142.0 15.0 286.0 2.0  0 0.00 91.  999. 10 NAD-SFC NoSubs
 7 12  6 340 24   -5.6  0.125 -9.000 -9.000 -999. 105.     30.8  0.0310 0.72 1.00 2.10 106.0 15.0 285.9 2.0  0 0.00 90.  999. 10 NAD-SFC NoSubs
 7 12  7 341  1  -10.0  0.155 -9.000 -9.000 -999. 146.     33.0  0.0310 0.72 1.00 2.60  96.0 15.0 285.8 2.0  0 0.00 88.  999.  8 NAD-SFC NoSubs
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 7 12  7 341  2  -15.2  0.186 -9.000 -9.000 -999.  193.     38.1  0.0310  0.72  1.00   3.10  100.0  15.0  285.8  2.0   0   0.00   87.   999.     7 NAD-SFC NoSubs
 7 12  7 341  3  -15.2  0.186 -9.000 -9.000 -999.  193.     38.1  0.0310  0.72  1.00   3.10  100.0  15.0  285.8  2.0   0   0.00   85.   999.     7 NAD-SFC NoSubs
 7 12  7 341  4   -3.8  0.089 -9.000 -9.000 -999.   69.     16.8  0.0310  0.72  1.00   1.50  116.0  15.0  285.6  2.0   0   0.00   86.   999.     5 NAD-SFC NoSubs
 7 12  7 341  5  -14.6  0.173 -9.000 -9.000 -999.  172.     31.4  0.0200  0.72  1.00   3.10  244.0  15.0  285.1  2.0   0   0.00   89.   999.     5 NAD-SFC NoSubs
 7 12  7 341  6  -28.3  0.292 -9.000 -9.000 -999.  378.     78.3  0.0200  0.72  1.00   5.10  250.0  15.0  284.1  2.0   0   0.00   92.  1000.     5 NAD-SFC NoSubs
 7 12  7 341  7  -23.9  0.262 -9.000 -9.000 -999.  323.     67.5  0.0200  0.72  1.00   4.60  265.0  15.0  283.6  2.0   0   0.00   90.  1000.     6 NAD-SFC NoSubs
 7 12  7 341  8  -19.2  0.333 -9.000 -9.000 -999.  462.    172.5  0.0420  0.72  0.52   5.10  270.0  15.0  283.8  2.0   0   0.00   89.  1001.     5 NAD-SFC NoSubs
 7 12  7 341  9   24.4  0.363  0.483  0.005  165.   524.   -174.6  0.0420  0.72  0.31   5.10  284.0  15.0  284.4  2.0   0   0.00   85.  1002.     7 NAD-SFC NoSubs
 7 12  7 341 10   54.7  0.444  0.805  0.005  340.   710.   -143.1  0.0420  0.72  0.24   6.20  297.0  15.0  285.6  2.0   0   0.00   71.  1003.     7 NAD-SFC NoSubs
 7 12  7 341 11   19.7  0.483  0.596  0.005  384.   806.   -512.7  0.0800  0.72  0.21   6.20  314.0  15.0  286.2  2.0   0   0.00   61.  1003.    10 NAD-SFC NoSubs
 7 12  7 341 12   22.7  0.448  0.752  0.005  670.   720.   -353.5  0.0800  0.72  0.21   5.70  306.0  15.0  286.1  2.0   0   0.00   62.  1003.    10 NAD-SFC NoSubs
 7 12  7 341 13   22.0  0.404  0.756  0.005  703.   617.   -267.7  0.0800  0.72  0.21   5.10  309.0  15.0  285.8  2.0   0   0.25   66.  1003.    10 NAD-SFC NoSubs
 7 12  7 341 14   17.5  0.329  0.709  0.005  727.   456.   -181.4  0.0800  0.72  0.22   4.10  314.0  15.0  285.2  2.0   0   0.51   72.  1004.    10 NAD-SFC NoSubs
 7 12  7 341 15    9.7  0.215  0.586  0.005  741.   247.    -92.1  0.0800  0.72  0.26   2.60  304.0  15.0  284.9  2.0   0   0.51   77.  1004.    10 NAD-SFC NoSubs
 7 12  7 341 16   -0.8  0.139 -9.000 -9.000 -999.   126.    285.2  0.0420  0.72  0.36   2.10  272.0  15.0  284.5  2.0   0   0.76   82.  1004.    10 NAD-SFC NoSubs
 7 12  7 341 17  -14.8  0.204 -9.000 -9.000 -999.   221.     51.6  0.0200  0.72  0.67   3.60  263.0  15.0  284.0  2.0   0   0.51   85.  1004.     8 NAD-SFC NoSubs
 7 12  7 341 18  -17.1  0.203 -9.000 -9.000 -999.   220.     44.0  0.0200  0.72  1.00   3.60  261.0  15.0  283.8  2.0   0   0.00   83.  1005.     7 NAD-SFC NoSubs
 7 12  7 341 19  -11.5  0.205 -9.000 -9.000 -999.   223.     67.8  0.0200  0.72  1.00   3.60  268.0  15.0  283.6  2.0   0   0.00   78.  1006.    10 NAD-SFC NoSubs
 7 12  7 341 20  -19.4  0.230 -9.000 -9.000 -999.   265.     56.3  0.0420  0.72  1.00   3.60  276.0  15.0  283.2  2.0   0   0.00   78.  1006.     7 NAD-SFC NoSubs
 7 12  7 341 21  -22.3  0.264 -9.000 -9.000 -999.   325.     73.7  0.0420  0.72  1.00   4.10  276.0  15.0  282.5  2.0   0   0.00   80.  1007.     7 NAD-SFC NoSubs
 7 12  7 341 22  -20.2  0.264 -9.000 -9.000 -999.   326.     82.0  0.0420  0.72  1.00   4.10  279.0  15.0  282.1  2.0   0   0.00   81.  1007.     8 NAD-SFC NoSubs
 7 12  7 341 23  -25.3  0.297 -9.000 -9.000 -999.   389.     93.3  0.0420  0.72  1.00   4.60  285.0  15.0  281.8  2.0   0   0.00   81.  1008.     7 NAD-SFC NoSubs
 7 12  7 341 24  -16.9  0.300 -9.000 -9.000 -999.   394.    143.2  0.0420  0.72  1.00   4.60  277.0  15.0  281.5  2.0   0   0.00   81.  1008.    10 NAD-SFC NoSubs
 7 12  8 342  1  -15.0  0.266 -9.000 -9.000 -999.   329.    112.5  0.0420  0.72  1.00   4.10  286.0  15.0  280.9  2.0   0   0.00   83.  1008.    10 NAD-SFC NoSubs
 7 12  8 342  2  -15.0  0.266 -9.000 -9.000 -999.   329.    112.3  0.0420  0.72  1.00   4.10  288.0  15.0  280.5  2.0   0   0.00   84.  1008.    10 NAD-SFC NoSubs
 7 12  8 342  3  -20.1  0.261 -9.000 -9.000 -999.   319.     79.2  0.0800  0.72  1.00   3.60  300.0  15.0  280.0  2.0   0   0.00   86.  1009.     8 NAD-SFC NoSubs
 7 12  8 342  4  -19.7  0.230 -9.000 -9.000 -999.   265.     55.5  0.0420  0.72  1.00   3.60  299.0  15.0  279.4  2.0   0   0.00   88.  1009.     7 NAD-SFC NoSubs
 7 12  8 342  5  -21.7  0.221 -9.000 -9.000 -999.   249.     44.7  0.0800  0.72  1.00   3.10  301.0  15.0  278.8  2.0   0   0.00   89.  1009.     5 NAD-SFC NoSubs
 7 12  8 342  6  -18.4  0.195 -9.000 -9.000 -999.   207.     36.2  0.0420  0.72  1.00   3.10  293.0  15.0  278.4  2.0   0   0.00   90.  1010.     4 NAD-SFC NoSubs
 7 12  8 342  7  -12.8  0.161 -9.000 -9.000 -999.   155.     29.5  0.0420  0.72  1.00   2.60  295.0  15.0  278.1  2.0   0   0.00   91.  1010.     4 NAD-SFC NoSubs
 7 12  8 342  8  -10.6  0.164 -9.000 -9.000 -999.   159.     37.5  0.0420  0.72  0.53   2.60  291.0  15.0  277.8  2.0   0   0.00   91.  1011.     4 NAD-SFC NoSubs
 7 12  8 342  9   25.6  0.307  0.500  0.005  176.   408.   -102.1  0.0950  0.72  0.31   3.60  332.0  15.0  279.2  2.0   0   0.00   84.  1011.     3 NAD-SFC NoSubs
 7 12  8 342 10   63.9  0.323  0.931  0.005  455.   440.    -47.5  0.0950  0.72  0.24   3.60  331.0  15.0  280.0  2.0   0   0.00   80.  1011.     3 NAD-SFC NoSubs
 7 12  8 342 11   90.1  0.258  1.136  0.005  587.   316.    -17.1  0.0950  0.72  0.21   2.60  349.0  15.0  280.8  2.0   0   0.00   75.  1010.     3 NAD-SFC NoSubs
 7 12  8 342 12  102.4  0.224  1.272  0.005  724.   254.     -9.8  0.0950  0.72  0.21   2.10  356.0  15.0  281.6  2.0   0   0.00   69.  1009.     3 NAD-SFC NoSubs
 7 12  8 342 13  100.1 -9.000 -9.000 -9.000  854.  -999. -99999.0  0.0471  0.72  0.21   0.00    0.0  15.0  282.2  2.0   0   0.00   64.  1009.     3 NAD-SFC NoSubs
 7 12  8 342 14   83.1  0.133  1.299  0.005  950.   117.     -2.6  0.0960  0.72  0.22   1.00   15.0  15.0  282.8  2.0   0   0.00   61.  1008.     4 NAD-SFC NoSubs
 7 12  8 342 15   52.3  0.126  1.135  0.005 1006.   107.     -3.4  0.0960  0.72  0.26   1.00    6.0  15.0  283.0  2.0   0   0.00   58.  1008.     5 NAD-SFC NoSubs
 7 12  8 342 16   13.7  0.146  0.731  0.005 1020.   134.    -20.4  0.0960  0.72  0.36   1.50   27.0  15.0  282.9  2.0   0   0.00   59.  1007.     5 NAD-SFC NoSubs
 7 12  8 342 17  -13.7  0.176 -9.000 -9.000 -999.   177.     35.5  0.0650  0.72  0.67   2.60   56.0  15.0  282.2  2.0   0   0.00   64.  1007.     5 NAD-SFC NoSubs
 7 12  8 342 18  -22.4  0.227 -9.000 -9.000 -999.   260.     46.9  0.0400  0.72  1.00   3.60   76.0  15.0  281.0  2.0   0   0.00   72.  1008.     5 NAD-SFC NoSubs
 7 12  8 342 19  -22.7  0.217 -9.000 -9.000 -999.   243.     40.6  0.0310  0.72  1.00   3.60   95.0  15.0  279.9  2.0   0   0.00   78.  1009.     4 NAD-SFC NoSubs
 7 12  8 342 20  -21.6  0.217 -9.000 -9.000 -999.   243.     42.7  0.0310  0.72  1.00   3.60  102.0  15.0  279.2  2.0   0   0.00   80.  1009.     5 NAD-SFC NoSubs
 7 12  8 342 21  -15.7  0.183 -9.000 -9.000 -999.   187.     34.9  0.0280  0.72  1.00   3.10  122.0  15.0  279.2  2.0   0   0.00   82.  1010.     6 NAD-SFC NoSubs
 7 12  8 342 22  -16.2  0.182 -9.000 -9.000 -999.   186.     33.7  0.0280  0.72  1.00   3.10  140.0  15.0  279.2  2.0   0   0.00   83.  1010.     5 NAD-SFC NoSubs
 7 12  8 342 23  -11.5  0.150 -9.000 -9.000 -999.   140.     26.6  0.0280  0.72  1.00   2.60  138.0  15.0  279.2  2.0   0   0.00   83.  1011.     4 NAD-SFC NoSubs
 7 12  8 342 24   -3.9  0.088 -9.000 -9.000 -999.    63.     15.7  0.0240  0.72  1.00   1.50  153.0  15.0  279.0  2.0   0   0.00   83.  1011.     3 NAD-SFC NoSubs
 7 12  9 343  1   -1.1  0.069 -9.000 -9.000 -999.    43.     27.4  0.0400  0.72  1.00   0.50   83.0  15.0  278.4  2.0   0   0.00   86.  1011.     3 NAD-SFC NoSubs
 7 12  9 343  2   -1.3  0.075 -9.000 -9.000 -999.    49.     29.6  0.0950  0.72  1.00   0.50  332.0  15.0  277.6  2.0   0   0.00   91.  1012.     3 NAD-SFC NoSubs
 7 12  9 343  3   -5.3  0.105 -9.000 -9.000 -999.    82.     19.9  0.0800  0.72  1.00   1.50  312.0  15.0  277.0  2.0   0   0.00   94.  1013.     3 NAD-SFC NoSubs
 7 12  9 343  4  -10.1  0.145 -9.000 -9.000 -999.   132.     27.0  0.0800  0.72  1.00   2.10  311.0  15.0  276.5  2.0   0   0.00   95.  1013.     3 NAD-SFC NoSubs
 7 12  9 343  5  -10.2  0.145 -9.000 -9.000 -999.   132.     26.9  0.0800  0.72  1.00   2.10  314.0  15.0  276.0  2.0   0   0.00   96.  1014.     3 NAD-SFC NoSubs
 7 12  9 343  6   -8.4  0.128 -9.000 -9.000 -999.   110.     22.5  0.0420  0.72  1.00   2.10  297.0  15.0  274.9  2.0   0   0.00   97.  1014.     3 NAD-SFC NoSubs
 7 12  9 343  7   -5.3  0.105 -9.000 -9.000 -999.    82.     19.9  0.0800  0.72  1.00   1.50  306.0  15.0  274.5  2.0   0   0.00   96.  1015.     3 NAD-SFC NoSubs
 7 12  9 343  8   -3.6  0.092 -9.000 -9.000 -999.    67.     19.2  0.0420  0.72  0.53   1.50  299.0  15.0  274.5  2.0   0   0.00   94.  1015.     3 NAD-SFC NoSubs
 7 12  9 343  9   22.9  0.148  0.383  0.006   89.   136.    -12.8  0.0800  0.72  0.32   1.50  311.0  15.0  275.8  2.0   0   0.00   83.  1015.     2 NAD-SFC NoSubs
 7 12  9 343 10   61.6  0.146  0.734  0.005  232.   134.     -4.5  0.0420  0.72  0.24   1.50  292.0  15.0  277.4  2.0   0   0.00   72.  1015.     2 NAD-SFC NoSubs
 7 12  9 343 11   88.4  0.116  1.017  0.005  430.    94.     -1.6  0.0420  0.72  0.21   1.00  290.0  15.0  279.4  2.0   0   0.00   62.  1015.     2 NAD-SFC NoSubs
 7 12  9 343 12  101.0  0.154  1.172  0.005  577.   144.     -3.2  0.0420  0.72  0.21   1.50  299.0  15.0  281.2  2.0   0   0.00   54.  1013.     2 NAD-SFC NoSubs
 7 12  9 343 13   98.9  0.216  1.239  0.005  695.   241.     -9.2  0.0800  0.72  0.21   2.10  311.0  15.0  282.2  2.0   0   0.00   49.  1012.     2 NAD-SFC NoSubs
 7 12  9 343 14   82.1  0.256  1.214  0.005  787.   310.    -18.4  0.0950  0.72  0.22   2.60  335.0  15.0  283.1  2.0   0   0.00   47.  1012.     2 NAD-SFC NoSubs
 7 12  9 343 15   51.5  0.282  1.062  0.005  840.   360.    -39.4  0.0950  0.72  0.26   3.10  345.0  15.0  283.4  2.0   0   0.00   46.  1011.     2 NAD-SFC NoSubs
 7 12  9 343 16   10.2  0.222  0.622  0.005  850.   253.    -97.2  0.0950  0.72  0.36   2.60  353.0  15.0  283.2  2.0   0   0.00   52.  1011.     2 NAD-SFC NoSubs
 7 12  9 343 17  -10.6  0.150 -9.000 -9.000 -999.   142.     29.0  0.0960  0.72  0.67   2.10   12.0  15.0  282.5  2.0   0   0.00   55.  1010.     2 NAD-SFC NoSubs
 7 12  9 343 18   -5.0  0.102 -9.000 -9.000 -999.    78.     19.0  0.0650  0.72  1.00   1.50   34.0  15.0  281.5  2.0   0   0.00   59.  1011.     2 NAD-SFC NoSubs
 7 12  9 343 19   -2.5  0.079 -9.000 -9.000 -999.    53.     18.0  0.0400  0.72  1.00   1.00   64.0  15.0  280.4  2.0   0   0.00   64.  1011.     2 NAD-SFC NoSubs
 7 12  9 343 20 -999.0 -9.000 -9.000 -9.000 -999.  -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  279.4  2.0   0   0.00   69.  1011.     2 NAD-SFC NoSubs
 7 12  9 343 21   -1.0  0.066 -9.000 -9.000 -999.    40.     26.2  0.0220  0.72  1.00   0.50  211.0  15.0  278.2  2.0   0   0.00   75.  1011.     2 NAD-SFC NoSubs
 7 12  9 343 22   -1.0  0.066 -9.000 -9.000 -999.    41.     26.2  0.0220  0.72  1.00   0.50  205.0  15.0  277.6  2.0   0   0.00   78.  1011.     2 NAD-SFC NoSubs
 7 12  9 343 23   -1.0  0.066 -9.000 -9.000 -999.    41.     26.2  0.0220  0.72  1.00   0.50  197.0  15.0  277.1  2.0   0   0.00   79.  1011.     2 NAD-SFC NoSubs
 7 12  9 343 24   -1.0  0.066 -9.000 -9.000 -999.    41.     26.3  0.0220  0.72  1.00   0.50  217.0  15.0  276.8  2.0   0   0.00   79.  1010.     2 NAD-SFC NoSubs
 7 12 10 344  1   -2.2  0.074 -9.000 -9.000 -999.    48.     16.7  0.0200  0.72  1.00   1.00  244.0  15.0  276.2  2.0   0   0.00   79.  1010.     2 NAD-SFC NoSubs
 7 12 10 344  2   -3.8  0.087 -9.000 -9.000 -999.    61.     15.2  0.0200  0.72  1.00   1.50  255.0  15.0  276.0  2.0   0   0.00   78.  1009.     2 NAD-SFC NoSubs
 7 12 10 344  3   -3.8  0.087 -9.000 -9.000 -999.    61.     15.2  0.0200  0.72  1.00   1.50  258.0  15.0  275.8  2.0   0   0.00   77.  1009.     2 NAD-SFC NoSubs
 7 12 10 344  4   -4.5  0.095 -9.000 -9.000 -999.    71.     17.3  0.0420  0.72  1.00   1.50  277.0  15.0  275.5  2.0   0   0.00   78.  1009.     2 NAD-SFC NoSubs
 7 12 10 344  5   -4.5  0.095 -9.000 -9.000 -999.    71.     17.3  0.0420  0.72  1.00   1.50  285.0  15.0  275.2  2.0   0   0.00   79.  1008.     2 NAD-SFC NoSubs
 7 12 10 344  6   -4.5  0.095 -9.000 -9.000 -999.    71.     17.3  0.0420  0.72  1.00   1.50  273.0  15.0  275.1  2.0   0   0.00   81.  1009.     2 NAD-SFC NoSubs
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 7 12 10 344  7   -2.5  0.080 -9.000 -9.000 -999.   54.     18.1  0.0420  0.72  1.00  1.00  272.0  15.0  274.8  2.0   0   0.00   82.  1008.    2 NAD-SFC NoSubs
 7 12 10 344  8   -3.2  0.083 -9.000 -9.000 -999.   57.     16.0  0.0200  0.72  0.54  1.50  253.0  15.0  274.5  2.0   0   0.00   83.  1008.    2 NAD-SFC NoSubs
 7 12 10 344  9   22.2  0.132  0.359  0.009   75.  116.     -9.4  0.0420  0.72  0.32  1.50  282.0  15.0  275.8  2.0   0   0.00   75.  1008.    2 NAD-SFC NoSubs
 7 12 10 344 10   61.0  0.111  0.687  0.008  191.   88.     -2.0  0.0420  0.72  0.24  1.00  276.0  15.0  277.5  2.0   0   0.00   68.  1007.    2 NAD-SFC NoSubs
 7 12 10 344 11   87.8  0.066  0.935  0.008  334.   41.     -1.0  0.0200  0.72  0.22  0.50  263.0  15.0  279.2  2.0   0   0.00   61.  1006.    2 NAD-SFC NoSubs
 7 12 10 344 12  100.4  0.104  1.088  0.008  459.   80.     -1.0  0.0200  0.72  0.21  1.00  266.0  15.0  280.6  2.0   0   0.00   55.  1005.    2 NAD-SFC NoSubs
 7 12 10 344 13   98.3  0.153  1.156  0.008  562.  144.     -3.3  0.0420  0.72  0.21  1.50  286.0  15.0  281.5  2.0   0   0.00   53.  1004.    2 NAD-SFC NoSubs
 7 12 10 344 14   81.7  0.212  1.132  0.007  636.  235.    -10.5  0.0800  0.72  0.22  2.10  310.0  15.0  282.2  2.0   0   0.00   51.  1004.    2 NAD-SFC NoSubs
 7 12 10 344 15   51.2  0.239  0.989  0.007  676.  280.    -23.9  0.0800  0.72  0.26  2.60  325.0  15.0  282.6  2.0   0   0.00   51.  1004.    2 NAD-SFC NoSubs
 7 12 10 344 16   10.0  0.222  0.576  0.007  683.  252.    -98.3  0.0950  0.72  0.36  2.60  331.0  15.0  282.4  2.0   0   0.00   56.  1003.    2 NAD-SFC NoSubs
 7 12 10 344 17  -16.4  0.189 -9.000 -9.000 -999.  198.     37.0  0.0950  0.72  0.67  2.60  348.0  15.0  281.8  2.0   0   0.00   60.  1004.    2 NAD-SFC NoSubs
 7 12 10 344 18   -5.5  0.109 -9.000 -9.000 -999.   88.     20.7  0.0960  0.72  1.00  1.50    1.0  15.0  280.8  2.0   0   0.00   64.  1004.    2 NAD-SFC NoSubs
 7 12 10 344 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  279.8  2.0   0   0.00   69.  1004.    2 NAD-SFC NoSubs
 7 12 10 344 20   -1.0  0.066 -9.000 -9.000 -999.   40.     26.2  0.0220  0.72  1.00  0.50  197.0  15.0  278.8  2.0   0   0.00   74.  1005.    2 NAD-SFC NoSubs
 7 12 10 344 21   -1.0  0.066 -9.000 -9.000 -999.   41.     26.2  0.0220  0.72  1.00  0.50  200.0  15.0  277.8  2.0   0   0.00   78.  1005.    2 NAD-SFC NoSubs
 7 12 10 344 22   -1.0  0.066 -9.000 -9.000 -999.   41.     26.2  0.0220  0.72  1.00  0.50  216.0  15.0  277.1  2.0   0   0.00   79.  1005.    2 NAD-SFC NoSubs
 7 12 10 344 23   -0.9  0.065 -9.000 -9.000 -999.   39.     25.8  0.0200  0.72  1.00  0.50  254.0  15.0  276.6  2.0   0   0.00   79.  1006.    3 NAD-SFC NoSubs
 7 12 10 344 24   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0420  0.72  1.00  0.50  274.0  15.0  276.2  2.0   0   0.00   80.  1006.    3 NAD-SFC NoSubs
 7 12 11 345  1   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0420  0.72  1.00  0.50  271.0  15.0  275.8  2.0   0   0.00   80.  1006.    3 NAD-SFC NoSubs
 7 12 11 345  2   -2.1  0.073 -9.000 -9.000 -999.   48.     16.6  0.0200  0.72  1.00  1.00  268.0  15.0  275.4  2.0   0   0.00   80.  1006.    3 NAD-SFC NoSubs
 7 12 11 345  3   -4.4  0.095 -9.000 -9.000 -999.   70.     17.3  0.0420  0.72  1.00  1.50  270.0  15.0  275.1  2.0   0   0.00   80.  1007.    3 NAD-SFC NoSubs
 7 12 11 345  4   -3.8  0.086 -9.000 -9.000 -999.   61.     15.2  0.0200  0.72  1.00  1.50  252.0  15.0  274.8  2.0   0   0.00   80.  1007.    3 NAD-SFC NoSubs
 7 12 11 345  5   -3.9  0.087 -9.000 -9.000 -999.   62.     15.4  0.0220  0.72  1.00  1.50  235.0  15.0  274.6  2.0   0   0.00   79.  1008.    3 NAD-SFC NoSubs
 7 12 11 345  6  -10.9  0.142 -9.000 -9.000 -999.  128.     23.4  0.0200  0.72  1.00  2.60  240.0  15.0  274.6  2.0   0   0.00   76.  1009.    2 NAD-SFC NoSubs
 7 12 11 345  7  -21.5  0.201 -9.000 -9.000 -999.  217.     34.2  0.0200  0.72  1.00  3.60  263.0  15.0  274.6  2.0   0   0.00   73.  1010.    2 NAD-SFC NoSubs
 7 12 11 345  8  -16.8  0.196 -9.000 -9.000 -999.  209.     40.5  0.0420  0.72  0.54  3.10  272.0  15.0  274.2  2.0   0   0.00   71.  1011.    2 NAD-SFC NoSubs
 7 12 11 345  9   21.5  0.234  0.363  0.007   80.  271.    -53.3  0.0420  0.72  0.32  3.10  299.0  15.0  275.9  2.0   0   0.00   63.  1011.    2 NAD-SFC NoSubs
 7 12 11 345 10   60.4  0.277  0.676  0.007  184.  350.    -31.8  0.0800  0.72  0.24  3.10  301.0  15.0  277.8  2.0   0   0.00   55.  1012.    2 NAD-SFC NoSubs
 7 12 11 345 11   87.3  0.249  0.927  0.007  329.  299.    -16.0  0.0800  0.72  0.22  2.60  300.0  15.0  279.5  2.0   0   0.00   50.  1012.    2 NAD-SFC NoSubs
 7 12 11 345 12  100.1  0.216  1.094  0.008  472.  242.     -9.1  0.0800  0.72  0.21  2.10  300.0  15.0  281.1  2.0   0   0.00   45.  1012.    2 NAD-SFC NoSubs
 7 12 11 345 13   98.2  0.216  1.174  0.007  595.  241.     -9.3  0.0800  0.72  0.21  2.10  318.0  15.0  282.2  2.0   0   0.00   43.  1012.    2 NAD-SFC NoSubs
 7 12 11 345 14   81.6  0.219  1.150  0.007  673.  246.    -11.6  0.0950  0.72  0.22  2.10  331.0  15.0  283.0  2.0   0   0.00   42.  1012.    2 NAD-SFC NoSubs
 7 12 11 345 15   51.2  0.246  1.000  0.007  706.  293.    -26.3  0.0950  0.72  0.26  2.60  346.0  15.0  283.2  2.0   0   0.00   42.  1012.    2 NAD-SFC NoSubs
 7 12 11 345 16   10.3 -9.000 -9.000 -9.000  713. -999. -99999.0  0.0471  0.72  0.36  0.00    0.0  15.0  283.9  2.0   0   0.00   48.  1012.    2 NAD-SFC NoSubs
 7 12 11 345 17  -23.8  0.229 -9.000 -9.000 -999.  263.     45.7  0.0960  0.72  0.67  3.10   17.0  15.0  283.1  2.0   0   0.00   52.  1013.    2 NAD-SFC NoSubs
 7 12 11 345 18  -21.5  0.211 -9.000 -9.000 -999.  233.     39.7  0.0650  0.72  1.00  3.10   34.0  15.0  282.1  2.0   0   0.00   56.  1014.    2 NAD-SFC NoSubs
 7 12 11 345 19   -5.0  0.102 -9.000 -9.000 -999.   84.     19.0  0.0650  0.72  1.00  1.50   53.0  15.0  281.1  2.0   0   0.00   61.  1014.    2 NAD-SFC NoSubs
 7 12 11 345 20   -1.0  0.066 -9.000 -9.000 -999.   40.     26.1  0.0220  0.72  1.00  0.50  214.0  15.0  280.0  2.0   0   0.00   67.  1015.    2 NAD-SFC NoSubs
 7 12 11 345 21   -1.0  0.065 -9.000 -9.000 -999.   40.     26.0  0.0200  0.72  1.00  0.50  255.0  15.0  279.0  2.0   0   0.00   72.  1016.    2 NAD-SFC NoSubs
 7 12 11 345 22   -2.5  0.079 -9.000 -9.000 -999.   54.     18.1  0.0420  0.72  1.00  1.00  281.0  15.0  278.2  2.0   0   0.00   76.  1017.    2 NAD-SFC NoSubs
 7 12 11 345 23   -4.5  0.095 -9.000 -9.000 -999.   71.     17.3  0.0420  0.72  1.00  1.50  285.0  15.0  277.8  2.0   0   0.00   76.  1017.    2 NAD-SFC NoSubs
 7 12 11 345 24   -8.5  0.128 -9.000 -9.000 -999.  110.     22.3  0.0420  0.72  1.00  2.10  294.0  15.0  277.2  2.0   0   0.00   73.  1017.    2 NAD-SFC NoSubs
 7 12 12 346  1  -13.3  0.161 -9.000 -9.000 -999.  155.     28.4  0.0420  0.72  1.00  2.60  298.0  15.0  276.9  2.0   0   0.00   69.  1018.    2 NAD-SFC NoSubs
 7 12 12 346  2  -25.9  0.228 -9.000 -9.000 -999.  262.     41.6  0.0420  0.72  1.00  3.60  297.0  15.0  276.4  2.0   0   0.00   65.  1018.    2 NAD-SFC NoSubs
 7 12 12 346  3  -29.4  0.258 -9.000 -9.000 -999.  315.     53.1  0.0800  0.72  1.00  3.60  313.0  15.0  275.8  2.0   0   0.00   64.  1018.    2 NAD-SFC NoSubs
 7 12 12 346  4  -23.2  0.220 -9.000 -9.000 -999.  248.     41.6  0.0800  0.72  1.00  3.10  312.0  15.0  275.1  2.0   0   0.00   65.  1018.    2 NAD-SFC NoSubs
 7 12 12 346  5  -16.1  0.182 -9.000 -9.000 -999.  187.     33.9  0.0800  0.72  1.00  2.60  305.0  15.0  274.8  2.0   0   0.00   66.  1018.    2 NAD-SFC NoSubs
 7 12 12 346  6  -16.1  0.182 -9.000 -9.000 -999.  186.     33.9  0.0800  0.72  1.00  2.60  304.0  15.0  274.4  2.0   0   0.00   66.  1019.    2 NAD-SFC NoSubs
 7 12 12 346  7   -4.6  0.095 -9.000 -9.000 -999.   74.     17.3  0.0420  0.72  1.00  1.50  273.0  15.0  274.5  2.0   0   0.00   65.  1019.    2 NAD-SFC NoSubs
 7 12 12 346  8   -3.3  0.083 -9.000 -9.000 -999.   57.     15.9  0.0200  0.72  0.55  1.50  243.0  15.0  274.8  2.0   0   0.00   64.  1020.    2 NAD-SFC NoSubs
 7 12 12 346  9   20.9  0.118  0.361  0.011   82.   97.     -7.1  0.0200  0.72  0.32  1.50  265.0  15.0  275.5  2.0   0   0.00   59.  1020.    2 NAD-SFC NoSubs
 7 12 12 346 10   59.7  0.110  0.656  0.009  172.   88.     -2.0  0.0420  0.72  0.24  1.00  289.0  15.0  277.2  2.0   0   0.00   52.  1020.    2 NAD-SFC NoSubs
 7 12 12 346 11   86.6  0.075  0.867  0.007  273.   49.     -1.0  0.0420  0.72  0.22  0.50  271.0  15.0  278.6  2.0   0   0.00   49.  1020.    2 NAD-SFC NoSubs
 7 12 12 346 12   99.4  0.117  1.001  0.006  367.   96.     -1.5  0.0420  0.72  0.21  1.00  279.0  15.0  279.4  2.0   0   0.00   47.  1019.    2 NAD-SFC NoSubs
 7 12 12 346 13   97.4  0.117  1.112  0.006  513.   96.     -1.5  0.0420  0.72  0.21  1.00  278.0  15.0  279.9  2.0   0   0.00   47.  1018.    2 NAD-SFC NoSubs
 7 12 12 346 14   80.9  0.114  1.119  0.006  629.   93.     -1.7  0.0420  0.72  0.22  1.00  285.0  15.0  280.2  2.0   0   0.00   46.  1018.    2 NAD-SFC NoSubs
 7 12 12 346 15   50.5  0.143  0.984  0.006  684.  130.     -5.3  0.0420  0.72  0.26  1.50  285.0  15.0  280.2  2.0   0   0.00   47.  1017.    2 NAD-SFC NoSubs
 7 12 12 346 16    9.6  0.064  0.568  0.006  692.   41.     -2.5  0.0800  0.72  0.36  0.50  305.0  15.0  280.0  2.0   0   0.00   51.  1016.    2 NAD-SFC NoSubs
 7 12 12 346 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.67  0.00    0.0  15.0  279.4  2.0   0   0.00   54.  1016.    2 NAD-SFC NoSubs
 7 12 12 346 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  278.4  2.0   0   0.00   60.  1016.    2 NAD-SFC NoSubs
 7 12 12 346 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  277.5  2.0   0   0.00   65.  1016.    2 NAD-SFC NoSubs
 7 12 12 346 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  276.8  2.0   0   0.00   69.  1016.    2 NAD-SFC NoSubs
 7 12 12 346 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  276.1  2.0   0   0.00   72.  1016.    2 NAD-SFC NoSubs
 7 12 12 346 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  275.6  2.0   0   0.00   75.  1016.    2 NAD-SFC NoSubs
 7 12 12 346 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  275.2  2.0   0   0.00   77.  1015.    2 NAD-SFC NoSubs
 7 12 12 346 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  275.2  2.0   0   0.00   79.  1015.    2 NAD-SFC NoSubs
 7 12 13 347  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  275.0  2.0   0   0.00   80.  1015.    2 NAD-SFC NoSubs
 7 12 13 347  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  274.9  2.0   0   0.00   80.  1015.    2 NAD-SFC NoSubs
 7 12 13 347  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  274.8  2.0   0   0.00   80.  1015.    2 NAD-SFC NoSubs
 7 12 13 347  4   -1.3  0.076 -9.000 -9.000 -999.   50.     30.0  0.0950  0.72  1.00  0.50  337.0  15.0  274.6  2.0   0   0.00   81.  1015.    2 NAD-SFC NoSubs
 7 12 13 347  5   -3.0  0.088 -9.000 -9.000 -999.   62.     20.1  0.0950  0.72  1.00  1.00  330.0  15.0  274.2  2.0   0   0.00   81.  1015.    2 NAD-SFC NoSubs
 7 12 13 347  6   -2.9  0.086 -9.000 -9.000 -999.   60.     19.6  0.0800  0.72  1.00  1.00  319.0  15.0  273.8  2.0   0   0.00   81.  1015.    2 NAD-SFC NoSubs
 7 12 13 347  7   -2.6  0.080 -9.000 -9.000 -999.   54.     18.2  0.0420  0.72  1.00  1.00  296.0  15.0  273.2  2.0   0   0.00   81.  1015.    2 NAD-SFC NoSubs
 7 12 13 347  8   -3.9  0.093 -9.000 -9.000 -999.   68.     18.3  0.0420  0.72  0.55  1.50  280.0  15.0  273.1  2.0   0   0.00   80.  1015.    2 NAD-SFC NoSubs
 7 12 13 347  9   20.2  0.131  0.338  0.012   69.  114.    -10.1  0.0420  0.72  0.32  1.50  297.0  15.0  274.8  2.0   0   0.00   68.  1015.    2 NAD-SFC NoSubs
 7 12 13 347 10   59.1  0.110  0.664  0.012  179.   88.     -2.0  0.0420  0.72  0.24  1.00  296.0  15.0  276.6  2.0   0   0.00   60.  1014.    2 NAD-SFC NoSubs
 7 12 13 347 11   86.1  0.115  0.898  0.010  304.   94.     -1.6  0.0420  0.72  0.22  1.00  299.0  15.0  278.2  2.0   0   0.00   54.  1014.    2 NAD-SFC NoSubs
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 7 12 13 347 12   99.1  0.131  1.037  0.010  407.  114.     -2.1  0.0800  0.72  0.21  1.00  309.0  15.0  280.0  2.0  0  0.00  46.  1013.  2 NAD-SFC NoSubs
 7 12 13 347 13   97.3  0.131  1.090  0.009  480.  114.     -2.1  0.0800  0.72  0.21  1.00  320.0  15.0  281.0  2.0  0  0.00  44.  1012.  2 NAD-SFC NoSubs
 7 12 13 347 14   81.0  0.128  1.062  0.008  534.  110.     -2.4  0.0800  0.72  0.22  1.00  325.0  15.0  281.8  2.0  0  0.00  43.  1012.  2 NAD-SFC NoSubs
 7 12 13 347 15   50.8  0.125  0.927  0.008  565.  106.     -3.5  0.0950  0.72  0.26  1.00  332.0  15.0  282.1  2.0  0  0.00  43.  1011.  2 NAD-SFC NoSubs
 7 12 13 347 16   10.0  0.105  0.541  0.008  571.   82.    -10.6  0.0950  0.72  0.36  1.00  349.0  15.0  282.1  2.0  0  0.00  46.  1011.  2 NAD-SFC NoSubs
 7 12 13 347 17   -2.6  0.082 -9.000 -9.000 -999.   56.     18.9  0.0650  0.72  0.67  1.00   32.0  15.0  281.2  2.0  0  0.00  50.  1011.  2 NAD-SFC NoSubs
 7 12 13 347 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  280.2  2.0  0  0.00  55.  1011.  2 NAD-SFC NoSubs
 7 12 13 347 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  278.9  2.0  0  0.00  62.  1012.  2 NAD-SFC NoSubs
 7 12 13 347 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  277.9  2.0  0  0.00  67.  1012.  2 NAD-SFC NoSubs
 7 12 13 347 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  277.0  2.0  0  0.00  72.  1013.  2 NAD-SFC NoSubs
 7 12 13 347 22   -1.1  0.070 -9.000 -9.000 -999.   44.     27.7  0.0400  0.72  1.00  0.50   85.0  15.0  276.1  2.0  0  0.00  77.  1013.  2 NAD-SFC NoSubs
 7 12 13 347 23   -1.1  0.070 -9.000 -9.000 -999.   44.     27.7  0.0400  0.72  1.00  0.50   82.0  15.0  275.4  2.0  0  0.00  80.  1013.  2 NAD-SFC NoSubs
 7 12 13 347 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  274.8  2.0  0  0.00  83.  1013.  2 NAD-SFC NoSubs
 7 12 14 348  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  274.2  2.0  0  0.00  85.  1013.  2 NAD-SFC NoSubs
 7 12 14 348  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  273.9  2.0  0  0.00  86.  1014.  2 NAD-SFC NoSubs
 7 12 14 348  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  273.6  2.0  0  0.00  86.  1014.  2 NAD-SFC NoSubs
 7 12 14 348  4   -1.3  0.075 -9.000 -9.000 -999.   49.     29.6  0.0800  0.72  1.00  0.50  307.0  15.0  273.4  2.0  0  0.00  85.  1014.  2 NAD-SFC NoSubs
 7 12 14 348  5   -1.3  0.075 -9.000 -9.000 -999.   49.     29.6  0.0800  0.72  1.00  0.50  304.0  15.0  273.2  2.0  0  0.00  84.  1014.  2 NAD-SFC NoSubs
 7 12 14 348  6   -1.3  0.075 -9.000 -9.000 -999.   49.     29.6  0.0800  0.72  1.00  0.50  318.0  15.0  273.1  2.0  0  0.00  84.  1014.  2 NAD-SFC NoSubs
 7 12 14 348  7   -1.0  0.066 -9.000 -9.000 -999.   41.     26.2  0.0200  0.72  1.00  0.50  245.0  15.0  272.9  2.0  0  0.00  85.  1015.  2 NAD-SFC NoSubs
 7 12 14 348  8   -1.9  0.069 -9.000 -9.000 -999.   44.     16.1  0.0220  0.72  0.56  1.00  232.0  15.0  272.8  2.0  0  0.00  85.  1015.  2 NAD-SFC NoSubs
 7 12 14 348  9   19.6  0.087  0.306  0.013   53.   62.     -3.1  0.0200  0.72  0.32  1.00  258.0  15.0  274.2  2.0  0  0.00  78.  1015.  2 NAD-SFC NoSubs
 7 12 14 348 10   58.6  0.110  0.616  0.010  145.   88.     -2.1  0.0420  0.72  0.25  1.00  294.0  15.0  277.0  2.0  0  0.00  67.  1016.  2 NAD-SFC NoSubs
 7 12 14 348 11   85.7  0.129  0.891  0.010  298.  112.     -2.3  0.0800  0.72  0.22  1.00  314.0  15.0  278.8  2.0  0  0.00  60.  1015.  2 NAD-SFC NoSubs
 7 12 14 348 12   98.8  0.131  1.052  0.010  426.  114.     -2.1  0.0800  0.72  0.21  1.00  307.0  15.0  280.6  2.0  0  0.00  54.  1014.  2 NAD-SFC NoSubs
 7 12 14 348 13   97.3  0.131  1.110  0.010  509.  114.     -2.1  0.0800  0.72  0.21  1.00  305.0  15.0  282.1  2.0  0  0.00  47.  1014.  2 NAD-SFC NoSubs
 7 12 14 348 14   81.1  0.128  1.085  0.010  569.  110.     -2.4  0.0800  0.72  0.22  1.00  325.0  15.0  282.9  2.0  0  0.00  44.  1013.  2 NAD-SFC NoSubs
 7 12 14 348 15   51.0  0.125  0.948  0.010  604.  106.     -3.5  0.0950  0.72  0.26  1.00  344.0  15.0  283.2  2.0  0  0.00  44.  1013.  2 NAD-SFC NoSubs
 7 12 14 348 16   10.3  0.143  0.558  0.010  610.  130.    -25.6  0.0960  0.72  0.36  1.50    5.0  15.0  283.1  2.0  0  0.00  47.  1013.  2 NAD-SFC NoSubs
 7 12 14 348 17    4.5 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.67  0.00    0.0  15.0  282.2  2.0  0  0.00  51.  1013.  2 NAD-SFC NoSubs
 7 12 14 348 18   -1.3  0.075 -9.000 -9.000 -999.   49.     29.8  0.0950  0.72  1.00  0.50  345.0  15.0  281.1  2.0  0  0.00  56.  1013.  2 NAD-SFC NoSubs
 7 12 14 348 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  279.9  2.0  0  0.00  62.  1013.  2 NAD-SFC NoSubs
 7 12 14 348 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  278.8  2.0  0  0.00  68.  1014.  2 NAD-SFC NoSubs
 7 12 14 348 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  277.9  2.0  0  0.00  73.  1014.  2 NAD-SFC NoSubs
 7 12 14 348 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  277.2  2.0  0  0.00  76.  1015.  2 NAD-SFC NoSubs
 7 12 14 348 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  276.6  2.0  0  0.00  79.  1015.  2 NAD-SFC NoSubs
 7 12 14 348 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  276.1  2.0  0  0.00  81.  1015.  2 NAD-SFC NoSubs
 7 12 15 349  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  275.6  2.0  0  0.00  83.  1015.  2 NAD-SFC NoSubs
 7 12 15 349  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  275.2  2.0  0  0.00  84.  1015.  2 NAD-SFC NoSubs
 7 12 15 349  3   -1.3  0.074 -9.000 -9.000 -999.   49.     29.5  0.0800  0.72  1.00  0.50  319.0  15.0  275.1  2.0  0  0.00  84.  1015.  2 NAD-SFC NoSubs
 7 12 15 349  4   -2.9  0.086 -9.000 -9.000 -999.   60.     19.6  0.0800  0.72  1.00  1.00  320.0  15.0  274.9  2.0  0  0.00  84.  1015.  2 NAD-SFC NoSubs
 7 12 15 349  5   -3.0  0.088 -9.000 -9.000 -999.   62.     20.1  0.0950  0.72  1.00  1.00  330.0  15.0  274.8  2.0  0  0.00  84.  1015.  2 NAD-SFC NoSubs
 7 12 15 349  6   -1.3  0.076 -9.000 -9.000 -999.   50.     30.0  0.0950  0.72  1.00  0.50  355.0  15.0  274.5  2.0  0  0.00  84.  1016.  2 NAD-SFC NoSubs
 7 12 15 349  7   -1.3  0.076 -9.000 -9.000 -999.   50.     30.0  0.0950  0.72  1.00  0.50  336.0  15.0  274.2  2.0  0  0.00  85.  1016.  2 NAD-SFC NoSubs
 7 12 15 349  8    8.9 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.56  0.00    0.0  15.0  274.0  2.0  0  0.00  85.  1016.  2 NAD-SFC NoSubs
 7 12 15 349  9   19.1 -9.000 -9.000 -9.000   67. -999. -99999.0  0.0471  0.72  0.33  0.00    0.0  15.0  275.2  2.0  0  0.00  80.  1016.  2 NAD-SFC NoSubs
 7 12 15 349 10   58.3  0.123  0.646  0.011  168.  104.     -2.9  0.0800  0.72  0.25  1.00  317.0  15.0  278.4  2.0  0  0.00  63.  1016.  2 NAD-SFC NoSubs
 7 12 15 349 11   85.5  0.084  0.881  0.011  289.   59.     -1.0  0.0800  0.72  0.22  0.50  317.0  15.0  280.2  2.0  0  0.00  59.  1015.  2 NAD-SFC NoSubs
 7 12 15 349 12   98.8  0.131  1.020  0.011  389.  114.     -2.1  0.0800  0.72  0.21  1.00  328.0  15.0  281.9  2.0  0  0.00  54.  1014.  2 NAD-SFC NoSubs
 7 12 15 349 13   97.4  0.135  1.088  0.011  478.  119.     -2.3  0.0950  0.72  0.21  1.00  331.0  15.0  283.2  2.0  0  0.00  51.  1013.  2 NAD-SFC NoSubs
 7 12 15 349 14   81.3  0.133  1.069  0.011  542.  116.     -2.6  0.0950  0.72  0.22  1.00  336.0  15.0  284.2  2.0  0  0.00  48.  1012.  2 NAD-SFC NoSubs
 7 12 15 349 15   51.4  0.165  0.938  0.010  579.  160.     -7.8  0.0950  0.72  0.26  1.50  336.0  15.0  284.8  2.0  0  0.00  47.  1012.  2 NAD-SFC NoSubs
 7 12 15 349 16   10.7  0.143  0.558  0.010  586.  130.    -24.7  0.0950  0.72  0.36  1.50  348.0  15.0  284.4  2.0  0  0.00  50.  1011.  2 NAD-SFC NoSubs
 7 12 15 349 17   -2.8  0.086 -9.000 -9.000 -999.   61.     19.8  0.0950  0.72  0.66  1.00  360.0  15.0  283.5  2.0  0  0.00  55.  1011.  2 NAD-SFC NoSubs
 7 12 15 349 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.2  2.0  0  0.00  61.  1011.  2 NAD-SFC NoSubs
 7 12 15 349 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  280.8  2.0  0  0.00  67.  1011.  2 NAD-SFC NoSubs
 7 12 15 349 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  279.8  2.0  0  0.00  73.  1011.  2 NAD-SFC NoSubs
 7 12 15 349 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  278.8  2.0  0  0.00  78.  1011.  2 NAD-SFC NoSubs
 7 12 15 349 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  278.0  2.0  0  0.00  81.  1011.  2 NAD-SFC NoSubs
 7 12 15 349 23   -1.3  0.076 -9.000 -9.000 -999.   50.     29.9  0.0960  0.72  1.00  0.50   20.0  15.0  277.5  2.0  0  0.00  82.  1012.  2 NAD-SFC NoSubs
 7 12 15 349 24   -3.0  0.088 -9.000 -9.000 -999.   62.     20.1  0.0960  0.72  1.00  1.00   19.0  15.0  277.0  2.0  0  0.00  84.  1011.  2 NAD-SFC NoSubs
 7 12 16 350  1   -1.3  0.076 -9.000 -9.000 -999.   50.     30.0  0.0960  0.72  1.00  0.50    9.0  15.0  276.5  2.0  0  0.00  85.  1011.  2 NAD-SFC NoSubs
 7 12 16 350  2   -1.3  0.076 -9.000 -9.000 -999.   50.     30.0  0.0950  0.72  1.00  0.50  358.0  15.0  276.1  2.0  0  0.00  86.  1011.  2 NAD-SFC NoSubs
 7 12 16 350  3   -1.3  0.074 -9.000 -9.000 -999.   49.     29.5  0.0800  0.72  1.00  0.50  319.0  15.0  275.8  2.0  0  0.00  87.  1011.  2 NAD-SFC NoSubs
 7 12 16 350  4   -5.3  0.105 -9.000 -9.000 -999.   82.     19.8  0.0800  0.72  1.00  1.50  313.0  15.0  275.2  2.0  0  0.00  88.  1010.  2 NAD-SFC NoSubs
 7 12 16 350  5  -10.3  0.145 -9.000 -9.000 -999.  132.     26.5  0.0800  0.72  1.00  2.10  315.0  15.0  275.0  2.0  0  0.00  88.  1010.  2 NAD-SFC NoSubs
 7 12 16 350  6  -10.3  0.145 -9.000 -9.000 -999.  132.     26.5  0.0800  0.72  1.00  2.10  314.0  15.0  274.8  2.0  0  0.00  88.  1010.  2 NAD-SFC NoSubs
 7 12 16 350  7   -5.4  0.105 -9.000 -9.000 -999.   82.     19.7  0.0800  0.72  1.00  1.50  319.0  15.0  274.5  2.0  0  0.00  87.  1010.  2 NAD-SFC NoSubs
 7 12 16 350  8   -2.6  0.082 -9.000 -9.000 -999.   57.     19.5  0.0950  0.72  0.57  1.00  338.0  15.0  274.2  2.0  0  0.00  88.  1010.  2 NAD-SFC NoSubs
 7 12 16 350  9   18.6  0.150  0.301  0.011   52.  139.    -16.2  0.0950  0.72  0.33  1.50  343.0  15.0  275.9  2.0  0  0.00  78.  1010.  2 NAD-SFC NoSubs
 7 12 16 350 10   57.8  0.162  0.604  0.011  137.  156.     -6.6  0.0800  0.72  0.25  1.50  324.0  15.0  278.2  2.0  0  0.00  68.  1009.  2 NAD-SFC NoSubs
 7 12 16 350 11   85.2  0.129  0.838  0.010  249.  112.     -2.3  0.0800  0.72  0.22  1.00  307.0  15.0  280.2  2.0  0  0.00  63.  1009.  2 NAD-SFC NoSubs
 7 12 16 350 12   98.5  0.131  0.995  0.009  360.  114.     -2.1  0.0800  0.72  0.21  1.00  325.0  15.0  281.9  2.0  0  0.00  57.  1008.  2 NAD-SFC NoSubs
 7 12 16 350 13   97.2  0.086  1.076  0.008  460.   61.     -1.0  0.0800  0.72  0.21  0.50  326.0  15.0  283.4  2.0  0  0.00  53.  1007.  2 NAD-SFC NoSubs
 7 12 16 350 14   81.3  0.129  1.067  0.008  536.  111.     -2.3  0.0800  0.72  0.22  1.00  326.0  15.0  284.5  2.0  0  0.00  46.  1006.  2 NAD-SFC NoSubs
 7 12 16 350 15   51.5  0.126  0.940  0.008  579.  107.     -3.4  0.0950  0.72  0.26  1.00  343.0  15.0  284.9  2.0  0  0.00  44.  1006.  2 NAD-SFC NoSubs
 7 12 16 350 16   13.0  0.108  0.598  0.007  591.   86.     -8.8  0.0960  0.72  0.36  1.00   13.0  15.0  286.2  2.0  0  0.00  56.  1005.  3 NAD-SFC NoSubs
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 7 12 16 350 17   -0.9  0.065 -9.000 -9.000 -999.   40.     26.0  0.0310  0.72  0.66  0.50  102.0  15.0  285.6  2.0   0  0.00   60.  1004.   3 NAD-SFC NoSubs
 7 12 16 350 18   -2.1  0.074 -9.000 -9.000 -999.   48.     16.8  0.0240  0.72  1.00  1.00  159.0  15.0  284.5  2.0   0  0.00   65.  1005.   3 NAD-SFC NoSubs
 7 12 16 350 19   -3.8  0.087 -9.000 -9.000 -999.   61.     15.5  0.0220  0.72  1.00  1.50  183.0  15.0  283.8  2.0   0  0.00   70.  1005.   3 NAD-SFC NoSubs
 7 12 16 350 20   -7.2  0.117 -9.000 -9.000 -999.   96.     19.9  0.0240  0.72  1.00  2.10  176.0  15.0  283.2  2.0   0  0.00   72.  1006.   3 NAD-SFC NoSubs
 7 12 16 350 21   -3.8  0.087 -9.000 -9.000 -999.   61.     15.5  0.0220  0.72  1.00  1.50  202.0  15.0  283.1  2.0   0  0.00   74.  1006.   3 NAD-SFC NoSubs
 7 12 16 350 22   -2.1  0.073 -9.000 -9.000 -999.   47.     16.5  0.0200  0.72  1.00  1.00  258.0  15.0  283.0  2.0   0  0.00   75.  1007.   3 NAD-SFC NoSubs
 7 12 16 350 23  -10.0  0.145 -9.000 -9.000 -999.  132.     27.3  0.0800  0.72  1.00  2.10  301.0  15.0  282.2  2.0   0  0.00   80.  1008.   3 NAD-SFC NoSubs
 7 12 16 350 24  -22.5  0.220 -9.000 -9.000 -999.  248.     42.8  0.0800  0.72  1.00  3.10  315.0  15.0  281.2  2.0   0  0.00   88.  1008.   3 NAD-SFC NoSubs
 7 12 17 351  1  -10.0  0.145 -9.000 -9.000 -999.  134.     27.2  0.0800  0.72  1.00  2.10  310.0  15.0  280.4  2.0   0  0.00   93.  1008.   3 NAD-SFC NoSubs
 7 12 17 351  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  280.0  2.0   0  0.00   97.  1008.   3 NAD-SFC NoSubs
 7 12 17 351  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  279.8  2.0   0  0.00   97.  1008.   3 NAD-SFC NoSubs
 7 12 17 351  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  279.6  2.0   0  0.00   98.  1008.   3 NAD-SFC NoSubs
 7 12 17 351  5   -1.1  0.069 -9.000 -9.000 -999.   43.     27.4  0.0400  0.72  1.00  0.50   78.0  15.0  277.8  2.0   0  0.00  100.  1008.   3 NAD-SFC NoSubs
 7 12 17 351  6   -4.4  0.094 -9.000 -9.000 -999.   69.     17.2  0.0400  0.72  1.00  1.50   86.0  15.0  276.4  2.0   0  0.00  100.  1009.   3 NAD-SFC NoSubs
 7 12 17 351  7   -4.1  0.091 -9.000 -9.000 -999.   66.     16.4  0.0310  0.72  1.00  1.50   97.0  15.0  276.0  2.0   0  0.00  100.  1009.   3 NAD-SFC NoSubs
 7 12 17 351  8   -1.9  0.071 -9.000 -9.000 -999.   46.     16.7  0.0310  0.72  0.57  1.00   99.0  15.0  275.5  2.0   0  0.00  100.  1009.   3 NAD-SFC NoSubs
 7 12 17 351  9   19.7  0.061  0.368  0.006   91.   37.     -1.1  0.0400  0.72  0.33  0.50   77.0  15.0  275.8  2.0   0  0.00  100.  1009.   3 NAD-SFC NoSubs
 7 12 17 351 10   58.6  0.067  0.808  0.007  324.   42.     -1.0  0.0310  0.72  0.25  0.50   94.0  15.0  277.2  2.0   0  0.00  100.  1009.   4 NAD-SFC NoSubs
 7 12 17 351 11   85.4  0.071  1.017  0.007  444.   45.     -1.0  0.0310  0.72  0.22  0.50  100.0  15.0  279.8  2.0   0  0.00   95.  1009.   4 NAD-SFC NoSubs
 7 12 17 351 12   90.3 -9.000 -9.000 -9.000  537. -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0  282.6  2.0   0  0.00   79.  1008.   6 NAD-SFC NoSubs
 7 12 17 351 13   79.9  0.065  1.105  0.007  608.   40.     -1.0  0.0200  0.72  0.21  0.50  253.0  15.0  283.2  2.0   0  0.00   75.  1008.   7 NAD-SFC NoSubs
 7 12 17 351 14   67.4  0.112  1.075  0.007  662.   90.     -1.9  0.0420  0.72  0.22  1.00  288.0  15.0  283.2  2.0   0  0.00   77.  1007.   7 NAD-SFC NoSubs
 7 12 17 351 15   52.0  0.079  1.009  0.007  710.   53.     -1.0  0.0800  0.72  0.26  0.50  313.0  15.0  283.2  2.0   0  0.00   78.  1007.   5 NAD-SFC NoSubs
 7 12 17 351 16   14.2  0.067  0.660  0.007  723.   41.     -1.9  0.0800  0.72  0.36  0.50  329.0  15.0  283.2  2.0   0  0.00   79.  1007.   5 NAD-SFC NoSubs
 7 12 17 351 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.66  0.00    0.0  15.0  283.0  2.0   0  0.00   81.  1007.   6 NAD-SFC NoSubs
 7 12 17 351 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.8  2.0   0  0.00   83.  1007.   7 NAD-SFC NoSubs
 7 12 17 351 19   -0.7  0.057 -9.000 -9.000 -999.   33.     23.4  0.0280  0.72  1.00  0.50  133.0  15.0  282.8  2.0   0  0.00   84.  1007.   8 NAD-SFC NoSubs
 7 12 17 351 20   -1.7  0.067 -9.000 -9.000 -999.   42.     16.1  0.0280  0.72  1.00  1.00  128.0  15.0  282.8  2.0   0  0.00   84.  1007.   8 NAD-SFC NoSubs
 7 12 17 351 21   -1.7  0.067 -9.000 -9.000 -999.   42.     16.1  0.0280  0.72  1.00  1.00  129.0  15.0  282.8  2.0   0  0.00   84.  1008.   8 NAD-SFC NoSubs
 7 12 17 351 22   -3.2  0.086 -9.000 -9.000 -999.   61.     17.7  0.0280  0.72  1.00  1.50  130.0  15.0  282.8  2.0   0  0.00   84.  1008.   8 NAD-SFC NoSubs
 7 12 17 351 23   -2.7  0.085 -9.000 -9.000 -999.   60.     20.4  0.0280  0.72  1.00  1.50  139.0  15.0  282.8  2.0   0  0.00   84.  1008.  10 NAD-SFC NoSubs
 7 12 17 351 24   -5.5  0.122 -9.000 -9.000 -999.  103.     29.8  0.0280  0.72  1.00  2.10  147.0  15.0  282.8  2.0   0  0.00   84.  1008.  10 NAD-SFC NoSubs
 7 12 18 352  1   -2.6  0.083 -9.000 -9.000 -999.   58.     19.6  0.0240  0.72  1.00  1.50  150.0  15.0  282.8  2.0   0  0.00   84.  1008.  10 NAD-SFC NoSubs
 7 12 18 352  2   -1.3  0.060 -9.000 -9.000 -999.   36.     15.5  0.0240  0.72  1.00  1.00  150.0  15.0  282.8  2.0   0  0.00   85.  1008.  10 NAD-SFC NoSubs
 7 12 18 352  3   -6.3  0.121 -9.000 -9.000 -999.  101.     24.9  0.0280  0.72  1.00  2.10  136.0  15.0  282.8  2.0   0  0.00   86.  1008.   8 NAD-SFC NoSubs
 7 12 18 352  4  -14.0  0.184 -9.000 -9.000 -999.  189.     39.8  0.0280  0.72  1.00  3.10  127.0  15.0  282.6  2.0   0  0.00   87.  1008.   8 NAD-SFC NoSubs
 7 12 18 352  5  -15.0  0.183 -9.000 -9.000 -999.  188.     36.9  0.0280  0.72  1.00  3.10  140.0  15.0  282.5  2.0   0  0.25   88.  1008.   7 NAD-SFC NoSubs
 7 12 18 352  6  -15.0  0.183 -9.000 -9.000 -999.  188.     36.9  0.0280  0.72  1.00  3.10  137.0  15.0  282.5  2.0   0  0.25   90.  1008.   7 NAD-SFC NoSubs
 7 12 18 352  7  -16.0  0.182 -9.000 -9.000 -999.  187.     33.9  0.0280  0.72  1.00  3.10  145.0  15.0  282.5  2.0   0  0.25   90.  1008.   5 NAD-SFC NoSubs
 7 12 18 352  8  -16.5  0.215 -9.000 -9.000 -999.  240.     54.2  0.0280  0.72  0.57  3.60  131.0  15.0  282.6  2.0   0  0.25   89.  1008.   5 NAD-SFC NoSubs
 7 12 18 352  9   21.8  0.249  0.385  0.005   94.  299.    -64.1  0.0280  0.72  0.33  3.60  126.0  15.0  282.9  2.0   0  0.25   88.  1009.   5 NAD-SFC NoSubs
 7 12 18 352 10   55.1  0.233  0.767  0.005  294.  270.    -20.6  0.0280  0.72  0.25  3.10  124.0  15.0  283.8  2.0   0  0.25   85.  1009.   6 NAD-SFC NoSubs
 7 12 18 352 11   79.0  0.243  1.032  0.005  500.  287.    -16.2  0.0310  0.72  0.22  3.10  119.0  15.0  284.6  2.0   0  0.51   82.  1008.   6 NAD-SFC NoSubs
 7 12 18 352 12   96.3  0.246  1.238  0.005  709.  293.    -13.9  0.0310  0.72  0.21  3.10  111.0  15.0  285.0  2.0   0  0.76   82.  1007.   5 NAD-SFC NoSubs
 7 12 18 352 13   97.7  0.216  1.320  0.005  845.  241.     -9.2  0.0310  0.72  0.21  2.60  105.0  15.0  285.1  2.0   0  1.02   84.  1006.   4 NAD-SFC NoSubs
 7 12 18 352 14   80.1  0.243  1.281  0.005  941.  287.    -16.0  0.0310  0.72  0.22  3.10  104.0  15.0  284.9  2.0   0  1.52   87.  1006.   5 NAD-SFC NoSubs
 7 12 18 352 15   52.4  0.266  1.135  0.005  999.  328.    -32.0  0.0310  0.72  0.26  3.60  110.0  15.0  284.8  2.0   0  1.78   90.  1005.   5 NAD-SFC NoSubs
 7 12 18 352 16   14.7  0.275  0.747  0.005 1015.  346.   -126.7  0.0280  0.72  0.36  4.10  121.0  15.0  284.5  2.0   0  2.29   93.  1005.   5 NAD-SFC NoSubs
 7 12 18 352 17  -25.3  0.277 -9.000 -9.000 -999.  350.     75.2  0.0280  0.72  0.66  4.60  129.0  15.0  284.5  2.0   0  2.79   95.  1005.   5 NAD-SFC NoSubs
 7 12 18 352 18  -23.8  0.245 -9.000 -9.000 -999.  292.     55.4  0.0280  0.72  1.00  4.10  143.0  15.0  284.6  2.0   0  2.79   97.  1005.   5 NAD-SFC NoSubs
 7 12 18 352 19  -19.5  0.214 -9.000 -9.000 -999.  238.     45.1  0.0280  0.72  1.00  3.60  139.0  15.0  284.8  2.0   0  2.03   98.  1006.   6 NAD-SFC NoSubs
 7 12 18 352 20  -15.5  0.183 -9.000 -9.000 -999.  188.     35.3  0.0280  0.72  1.00  3.10  144.0  15.0  284.9  2.0   0  0.51   97.  1007.   6 NAD-SFC NoSubs
 7 12 18 352 21   -1.9  0.071 -9.000 -9.000 -999.   55.     16.5  0.0280  0.72  1.00  1.00  146.0  15.0  285.2  2.0   0  0.00   95.  1007.   6 NAD-SFC NoSubs
 7 12 18 352 22   -2.2  0.076 -9.000 -9.000 -999.   50.     17.6  0.0420  0.72  1.00  1.00  298.0  15.0  284.9  2.0   0  0.00   96.  1008.   5 NAD-SFC NoSubs
 7 12 18 352 23  -21.5  0.221 -9.000 -9.000 -999.  250.     45.2  0.0800  0.72  1.00  3.10  304.0  15.0  283.8  2.0   0  0.00  100.  1009.   5 NAD-SFC NoSubs
 7 12 18 352 24  -17.9  0.195 -9.000 -9.000 -999.  208.     37.6  0.0420  0.72  1.00  3.10  297.0  15.0  282.1  2.0   0  0.00  100.  1009.   5 NAD-SFC NoSubs
 7 12 19 353  1  -17.9  0.195 -9.000 -9.000 -999.  207.     37.6  0.0420  0.72  1.00  3.10  296.0  15.0  282.1  2.0   0  0.00  100.  1010.   5 NAD-SFC NoSubs
 7 12 19 353  2  -21.6  0.221 -9.000 -9.000 -999.  250.     45.1  0.0800  0.72  1.00  3.10  300.0  15.0  282.2  2.0   0  0.00  100.  1010.   5 NAD-SFC NoSubs
 7 12 19 353  3  -15.0  0.183 -9.000 -9.000 -999.  188.     36.8  0.0800  0.72  1.00  2.60  310.0  15.0  282.2  2.0   0  0.00  100.  1010.   5 NAD-SFC NoSubs
 7 12 19 353  4  -10.2  0.151 -9.000 -9.000 -999.  140.     30.2  0.0950  0.72  1.00  2.10  337.0  15.0  282.2  2.0   0  0.00  100.  1011.   5 NAD-SFC NoSubs
 7 12 19 353  5  -14.8  0.191 -9.000 -9.000 -999.  200.     42.2  0.0950  0.72  1.00  2.60  360.0  15.0  282.2  2.0   0  0.00  100.  1011.   7 NAD-SFC NoSubs
 7 12 19 353  6   -7.9  0.154 -9.000 -9.000 -999.  145.     41.9  0.0950  0.72  1.00  2.10  351.0  15.0  282.1  2.0   0  0.00  100.  1011.  10 NAD-SFC NoSubs
 7 12 19 353  7   -3.9  0.107 -9.000 -9.000 -999.   84.     28.3  0.0950  0.72  1.00  1.50  330.0  15.0  282.0  2.0   0  0.00  100.  1012.  10 NAD-SFC NoSubs
 7 12 19 353  8   -1.6  0.070 -9.000 -9.000 -999.   45.     19.7  0.0800  0.72  0.58  1.00  325.0  15.0  282.1  2.0   0  0.00   98.  1012.  10 NAD-SFC NoSubs
 7 12 19 353  9   14.6  0.095  0.451  0.009  225.   70.     -5.3  0.0420  0.72  0.33  1.00  298.0  15.0  282.2  2.0   0  0.00   96.  1013.   8 NAD-SFC NoSubs
 7 12 19 353 10   58.8  0.206  0.841  0.009  365.  224.    -13.4  0.0800  0.72  0.25  2.10  301.0  15.0  282.6  2.0   0  0.00   93.  1013.   4 NAD-SFC NoSubs
 7 12 19 353 11   84.7  0.213  1.017  0.009  448.  236.    -10.3  0.0800  0.72  0.22  2.10  308.0  15.0  282.9  2.0   0  0.00   90.  1013.   2 NAD-SFC NoSubs
 7 12 19 353 12   99.0  0.171  1.124  0.008  518.  171.     -4.6  0.0800  0.72  0.21  1.50  310.0  15.0  283.2  2.0   0  0.00   88.  1012.   3 NAD-SFC NoSubs
 7 12 19 353 13   97.8  0.135  1.162  0.007  579.  120.     -2.3  0.0950  0.72  0.21  1.00  332.0  15.0  283.4  2.0   0  0.00   88.  1012.   3 NAD-SFC NoSubs
 7 12 19 353 14   82.1  0.133  1.125  0.006  625.  117.     -2.6  0.0960  0.72  0.22  1.00   17.0  15.0  283.5  2.0   0  0.00   88.  1012.   3 NAD-SFC NoSubs
 7 12 19 353 15   52.8  0.070  0.985  0.006  654.   45.     -1.0  0.0400  0.72  0.26  0.50   71.0  15.0  283.5  2.0   0  0.00   89.  1012.   3 NAD-SFC NoSubs
 7 12 19 353 16   12.8  0.056  0.618  0.006  662.   32.     -1.2  0.0310  0.72  0.36  0.50  109.0  15.0  283.4  2.0   0  0.00   91.  1011.   3 NAD-SFC NoSubs
 7 12 19 353 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.65  0.00    0.0  15.0  283.2  2.0   0  0.00   92.  1011.   3 NAD-SFC NoSubs
 7 12 19 353 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.8  2.0   0  0.00   95.  1011.   3 NAD-SFC NoSubs
 7 12 19 353 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.1  2.0   0  0.00   99.  1011.   3 NAD-SFC NoSubs
 7 12 19 353 20   -1.0  0.065 -9.000 -9.000 -999.   40.     26.0  0.0240  0.72  1.00  0.50  165.0  15.0  281.4  2.0   0  0.00  100.  1011.   3 NAD-SFC NoSubs
 7 12 19 353 21   -2.3  0.076 -9.000 -9.000 -999.   50.     17.2  0.0280  0.72  1.00  1.00  147.0  15.0  280.5  2.0   0  0.00  100.  1011.   2 NAD-SFC NoSubs
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7	12	19	353	22	-7.6	0.120	-9.000	-9.000	-999.	99.	20.3	0.0280	0.72	1.00	2.10	140.0	15.0	280.8	2.0	0	0.00	100.	1011.	2	NAD-SFC	NoSubs
7	12	19	353	23	-7.6	0.120	-9.000	-9.000	-999.	99.	20.3	0.0280	0.72	1.00	2.10	142.0	15.0	280.8	2.0	0	0.00	100.	1011.	2	NAD-SFC	NoSubs
7	12	19	353	24	-7.6	0.120	-9.000	-9.000	-999.	99.	20.3	0.0280	0.72	1.00	2.10	140.0	15.0	280.9	2.0	0	0.00	100.	1011.	2	NAD-SFC	NoSubs
7	12	20	354	1	-2.3	0.076	-9.000	-9.000	-999.	50.	17.2	0.0280	0.72	1.00	1.00	134.0	15.0	281.0	2.0	0	0.00	100.	1011.	2	NAD-SFC	NoSubs
7	12	20	354	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	281.0	2.0	0	0.00	100.	1011.	2	NAD-SFC	NoSubs
7	12	20	354	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	281.0	2.0	0	0.00	100.	1011.	2	NAD-SFC	NoSubs
7	12	20	354	4	-1.0	0.067	-9.000	-9.000	-999.	41.	26.7	0.0280	0.72	1.00	0.50	126.0	15.0	281.1	2.0	0	0.00	100.	1011.	2	NAD-SFC	NoSubs
7	12	20	354	5	-1.0	0.065	-9.000	-9.000	-999.	40.	26.1	0.0240	0.72	1.00	0.50	157.0	15.0	281.2	2.0	0	0.00	100.	1010.	3	NAD-SFC	NoSubs
7	12	20	354	6	-0.9	0.064	-9.000	-9.000	-999.	39.	25.7	0.0240	0.72	1.00	0.50	161.0	15.0	281.4	2.0	0	0.00	99.	1011.	4	NAD-SFC	NoSubs
7	12	20	354	7	-1.9	0.070	-9.000	-9.000	-999.	45.	16.3	0.0240	0.72	1.00	1.00	166.0	15.0	281.6	2.0	0	0.00	98.	1011.	6	NAD-SFC	NoSubs
7	12	20	354	8	-1.2	0.059	-9.000	-9.000	-999.	35.	15.6	0.0240	0.72	0.58	1.00	171.0	15.0	281.8	2.0	0	0.00	96.	1011.	10	NAD-SFC	NoSubs
7	12	20	354	9	0.5	0.068	0.070	0.009	24.	43.	-56.0	0.0240	0.72	0.33	1.00	166.0	15.0	281.8	2.0	0	0.00	95.	1011.	10	NAD-SFC	NoSubs
7	12	20	354	10	10.4	0.114	0.265	0.007	64.	93.	-13.0	0.0240	0.72	0.25	1.50	178.0	15.0	282.1	2.0	0	0.00	92.	1011.	10	NAD-SFC	NoSubs
7	12	20	354	11	17.3	0.119	0.378	0.007	112.	98.	-8.7	0.0240	0.72	0.22	1.50	166.0	15.0	282.5	2.0	0	0.25	86.	1011.	10	NAD-SFC	NoSubs
7	12	20	354	12	20.7	0.121	0.473	0.007	184.	101.	-7.7	0.0240	0.72	0.21	1.50	173.0	15.0	282.2	2.0	0	0.51	89.	1010.	10	NAD-SFC	NoSubs
7	12	20	354	13	94.2	0.181	0.992	0.005	374.	185.	-5.7	0.0280	0.72	0.21	2.10	139.0	15.0	281.6	2.0	0	0.76	98.	1010.	5	NAD-SFC	NoSubs
7	12	20	354	14	79.7	0.140	1.022	0.005	483.	126.	-3.1	0.0280	0.72	0.22	1.50	132.0	15.0	282.4	2.0	0	0.25	93.	1009.	5	NAD-SFC	NoSubs
7	12	20	354	15	52.4	0.108	0.925	0.005	543.	85.	-2.2	0.0400	0.72	0.26	1.00	88.0	15.0	283.4	2.0	0	0.00	87.	1009.	5	NAD-SFC	NoSubs
7	12	20	354	16	14.9	0.127	0.615	0.005	559.	109.	-12.3	0.0400	0.72	0.36	1.50	60.0	15.0	283.6	2.0	0	0.00	86.	1009.	5	NAD-SFC	NoSubs
7	12	20	354	17	-3.8	0.092	-9.000	-9.000	-999.	67.	18.4	0.0400	0.72	0.65	1.50	62.0	15.0	283.0	2.0	0	0.00	89.	1009.	6	NAD-SFC	NoSubs
7	12	20	354	18	-4.8	0.101	-9.000	-9.000	-999.	77.	19.3	0.0650	0.72	1.00	1.50	52.0	15.0	282.2	2.0	0	0.00	93.	1009.	4	NAD-SFC	NoSubs
7	12	20	354	19	-1.2	0.073	-9.000	-9.000	-999.	47.	29.1	0.0950	0.72	1.00	0.50	331.0	15.0	281.8	2.0	0	0.00	97.	1010.	4	NAD-SFC	NoSubs
7	12	20	354	20	-8.3	0.128	-9.000	-9.000	-999.	110.	22.8	0.0420	0.72	1.00	2.10	299.0	15.0	281.2	2.0	0	0.00	100.	1010.	3	NAD-SFC	NoSubs
7	12	20	354	21	-22.6	0.220	-9.000	-9.000	-999.	248.	42.7	0.0800	0.72	1.00	3.10	328.0	15.0	280.5	2.0	0	0.00	100.	1011.	3	NAD-SFC	NoSubs
7	12	20	354	22	-28.0	0.268	-9.000	-9.000	-999.	333.	61.9	0.0950	0.72	1.00	3.60	360.0	15.0	280.0	2.0	0	0.00	100.	1011.	4	NAD-SFC	NoSubs
7	12	20	354	23	-2.7	0.084	-9.000	-9.000	-999.	103.	19.7	0.0960	0.72	1.00	1.00	15.0	15.0	279.4	2.0	0	0.00	100.	1012.	5	NAD-SFC	NoSubs
7	12	20	354	24	-1.2	0.072	-9.000	-9.000	-999.	47.	28.7	0.0950	0.72	1.00	0.50	360.0	15.0	279.1	2.0	0	0.00	96.	1013.	5	NAD-SFC	NoSubs
7	12	21	355	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	278.8	2.0	0	0.00	94.	1013.	4	NAD-SFC	NoSubs
7	12	21	355	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	278.6	2.0	0	0.00	92.	1014.	3	NAD-SFC	NoSubs
7	12	21	355	3	-1.1	0.069	-9.000	-9.000	-999.	43.	27.5	0.0420	0.72	1.00	0.50	278.0	15.0	278.2	2.0	0	0.00	91.	1014.	3	NAD-SFC	NoSubs
7	12	21	355	4	-2.1	0.073	-9.000	-9.000	-999.	48.	16.6	0.0200	0.72	1.00	1.00	256.0	15.0	277.8	2.0	0	0.00	89.	1015.	3	NAD-SFC	NoSubs
7	12	21	355	5	-7.0	0.113	-9.000	-9.000	-999.	92.	18.9	0.0200	0.72	1.00	2.10	252.0	15.0	277.2	2.0	0	0.00	86.	1015.	3	NAD-SFC	NoSubs
7	12	21	355	6	-21.6	0.202	-9.000	-9.000	-999.	217.	34.3	0.0200	0.72	1.00	3.60	254.0	15.0	276.8	2.0	0	0.00	83.	1015.	2	NAD-SFC	NoSubs
7	12	21	355	7	-21.6	0.202	-9.000	-9.000	-999.	217.	34.3	0.0200	0.72	1.00	3.60	268.0	15.0	276.1	2.0	0	0.00	80.	1015.	2	NAD-SFC	NoSubs
7	12	21	355	8	-12.4	0.162	-9.000	-9.000	-999.	156.	31.0	0.0420	0.72	0.59	2.60	270.0	15.0	275.8	2.0	0	0.00	78.	1015.	2	NAD-SFC	NoSubs
7	12	21	355	9	16.6	0.192	0.378	0.005	118.	202.	-38.6	0.0950	0.72	0.33	2.10	350.0	15.0	277.0	2.0	0	0.00	70.	1016.	2	NAD-SFC	NoSubs
7	12	21	355	10	55.8	0.166	0.820	0.005	358.	163.	-7.5	0.0960	0.72	0.25	1.50	4.0	15.0	278.4	2.0	0	0.00	60.	1016.	2	NAD-SFC	NoSubs
7	12	21	355	11	83.6	0.133	1.047	0.005	497.	117.	-2.6	0.0950	0.72	0.22	1.00	341.0	15.0	279.5	2.0	0	0.00	54.	1015.	2	NAD-SFC	NoSubs
7	12	21	355	12	97.3	0.131	1.182	0.005	615.	114.	-2.1	0.0800	0.72	0.21	1.00	320.0	15.0	280.6	2.0	0	0.00	50.	1015.	2	NAD-SFC	NoSubs
7	12	21	355	13	96.5	0.131	1.259	0.005	749.	114.	-2.1	0.0800	0.72	0.21	1.00	313.0	15.0	281.4	2.0	0	0.00	46.	1014.	2	NAD-SFC	NoSubs
7	12	21	355	14	81.0	0.128	1.246	0.005	865.	110.	-2.4	0.0800	0.72	0.22	1.00	315.0	15.0	282.0	2.0	0	0.00	44.	1014.	2	NAD-SFC	NoSubs
7	12	21	355	15	51.6	0.122	1.099	0.005	931.	102.	-3.1	0.0800	0.72	0.26	1.00	321.0	15.0	282.2	2.0	0	0.00	43.	1014.	2	NAD-SFC	NoSubs
7	12	21	355	16	11.3	0.139	0.665	0.005	943.	125.	-21.7	0.0800	0.72	0.36	1.50	322.0	15.0	281.4	2.0	0	0.00	44.	1014.	2	NAD-SFC	NoSubs
7	12	21	355	17	-2.8	0.085	-9.000	-9.000	-999.	60.	19.8	0.0950	0.72	0.65	1.00	339.0	15.0	280.9	2.0	0	0.00	47.	1014.	2	NAD-SFC	NoSubs
7	12	21	355	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	279.9	2.0	0	0.00	51.	1015.	2	NAD-SFC	NoSubs
7	12	21	355	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	278.8	2.0	0	0.00	57.	1016.	2	NAD-SFC	NoSubs
7	12	21	355	20	-1.0	0.066	-9.000	-9.000	-999.	41.	26.4	0.0240	0.72	1.00	0.50	150.0	15.0	277.8	2.0	0	0.00	63.	1016.	2	NAD-SFC	NoSubs
7	12	21	355	21	-2.3	0.075	-9.000	-9.000	-999.	50.	17.0	0.0240	0.72	1.00	1.00	161.0	15.0	276.9	2.0	0	0.00	68.	1017.	2	NAD-SFC	NoSubs
7	12	21	355	22	-1.0	0.067	-9.000	-9.000	-999.	42.	26.8	0.0280	0.72	1.00	0.50	136.0	15.0	276.1	2.0	0	0.00	71.	1017.	2	NAD-SFC	NoSubs
7	12	21	355	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	275.6	2.0	0	0.00	73.	1018.	2	NAD-SFC	NoSubs
7	12	21	355	24	-1.1	0.070	-9.000	-9.000	-999.	44.	27.9	0.0420	0.72	1.00	0.50	284.0	15.0	275.2	2.0	0	0.00	74.	1018.	2	NAD-SFC	NoSubs
7	12	22	356	1	-3.9	0.087	-9.000	-9.000	-999.	61.	15.2	0.0200	0.72	1.00	1.50	269.0	15.0	275.0	2.0	0	0.00	72.	1019.	2	NAD-SFC	NoSubs
7	12	22	356	2	-4.6	0.095	-9.000	-9.000	-999.	71.	17.3	0.0420	0.72	1.00	1.50	283.0	15.0	274.8	2.0	0	0.00	71.	1019.	2	NAD-SFC	NoSubs
7	12	22	356	3	-8.6	0.128	-9.000	-9.000	-999.	110.	22.2	0.0420	0.72	1.00	2.10	288.0	15.0	274.4	2.0	0	0.00	71.	1020.	2	NAD-SFC	NoSubs
7	12	22	356	4	-4.6	0.095	-9.000	-9.000	-999.	71.	17.3	0.0420	0.72	1.00	1.50	282.0	15.0	274.1	2.0	0	0.00	70.	1020.	2	NAD-SFC	NoSubs
7	12	22	356	5	-4.6	0.095	-9.000	-9.000	-999.	71.	17.3	0.0420	0.72	1.00	1.50	270.0	15.0	273.8	2.0	0	0.00	69.	1020.	2	NAD-SFC	NoSubs
7	12	22	356	6	-8.6	0.128	-9.000	-9.000	-999.	110.	22.1	0.0420	0.72	1.00	2.10	282.0	15.0	273.6	2.0	0	0.00	67.	1021.	2	NAD-SFC	NoSubs
7	12	22	356	7	-8.6	0.128	-9.000	-9.000	-999.	110.	22.1	0.0420	0.72	1.00	2.10	295.0	15.0	273.4	2.0	0	0.00	66.	1022.	2	NAD-SFC	NoSubs
7	12	22	356	8	-9.7	0.145	-9.000	-9.000	-999.	133.	28.6	0.0800	0.72	0.59	2.10	300.0	15.0	273.1	2.0	0	0.00	65.	1022.	2	NAD-SFC	NoSubs
7	12	22	356	9	15.9	0.221	0.314	0.009	71.	249.	-61.5	0.0800	0.72	0.34	2.60	322.0	15.0	274.5	2.0	0	0.00	57.	1023.	2	NAD-SFC	NoSubs
7	12	22	356	10	55.2	0.204	0.632	0.009	166.	222.	-14.1	0.0800	0.72	0.25	2.10	316.0	15.0	276.2	2.0	0	0.00	52.	1023.	2	NAD-SFC	NoSubs
7	12	22	356	11	83.1	0.168	0.866	0.010	285.	165.	-5.2	0.0800	0.72	0.22	1.50	315.0	15.0	277.9	2.0	0	0.00	47.	1023.	2	NAD-SFC	NoSubs
7	12	22	356	12	97.1	0.117	1.020	0.010	399.	96.	-1.5	0.0420	0.72	0.21	1.00	296.0	15.0	279.8	2.0	0	0.00	42.	1022.	2	NAD-SFC	NoSubs
7	12	22	356	13	96.3	0.086	1.095	0.010	496.	60.	-1.0	0.0800	0.72	0.21	0.50	302.0	15.0	280.8	2.0	0	0.00	40.	1021.	2	NAD-SFC	NoSubs
7	12	22	356	14	81.0	0.083	1.080	0.010	565.	58.	-1.0	0.0800	0.72	0.22	0.50	324.0	15.0	281.6	2.0	0	0.00	39.	1020.	2	NAD-SFC	NoSubs
7	12	22	356	15	51.9	0.081	0.952	0.010	606.	56.	-1.0	0.0950	0.72	0.26	0.50	330.0	15.0	282.1	2.0	0	0.00	39.	1020.	2	NAD-SFC	NoSubs
7	12	22	356	16	11.7	0.067	0.584	0.010	615.	42.	-2.4	0.0960	0.72	0.35	0.50	4.0	15.0	282.1	2.0	0	0.00	41.	1019.	2	NAD-SFC	NoSubs
7	12	22	356	17	-1.1	0.070	-9.000	-9.000	-999.	45.	28.1	0.0650	0.72	0.64	0.50	45.0	15.0	281.4	2.0	0	0.00	45.	1019.	2	NAD-SFC	NoSubs
7	12	22	356	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	280.2	2.0	0	0.00	51.	1019.	2	NAD-SFC	NoSubs
7	12	22	356	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	279.2	2.0	0	0.00	56.	1019.	2	NAD-SFC	NoSubs
7	12	22	356	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	278.4	2.0	0	0.00	60.	1019.	2	NAD-SFC	NoSubs
7	12	22	356	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	277.8	2.0	0	0.00	64.	1019.	2	NAD-SFC	NoSubs
7	12	22	356	22	-1.3	0.076	-9.000	-9.000	-999.	50.	29.9	0.0960	0.72	1.00	0.50	7.0	15.0	277.2	2.0	0	0.00	66.	1020.	2	NAD-SFC	NoSubs
7	12	22	356	23	-1.3	0.076	-9.000	-9.000	-999.	50.	29.9	0.0950	0.72	1.00	0.50	337.0	15.0	277.0	2.0	0	0.00	68.	1020.	2	NAD-SFC	NoSubs
7	12	22	356	24	-1.3	0.074	-9.000	-9.000	-999.	49.	29.5	0.0800	0.72	1.00	0.50	318.0	15.0	276.6	2.0	0	0.00	70.	1020.	2	NAD-SFC	NoSubs
7	12	23	357	1	-1.3	0.074	-9.000	-9.000	-999.	49.	29.5	0.0800	0.72	1.00	0.50	309.0	15.0	276.1	2.0	0	0.00	72.	1020.	2	NAD-SFC	NoSubs
7	12	23	357	2	-1.1	0.070	-9.000	-9.000	-999.	44.	27.9	0.0420	0.72	1.00	0.50	290.0	15.0	275.8	2.0	0	0.00	73.	1020.	2	NAD-SFC	NoSubs

7	12	23	357	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	275.4	2.0	0	0.00	74.	1020.	2	NAD-SFC	NoSubs
7	12	23	357	4	-1.0	0.067	-9.000	-9.000	-999.	42.	26.9	0.0280	0.72	1.00	0.50	120.0	15.0	275.0	2.0	0	0.00	75.	1020.	2	NAD-SFC	NoSubs
7	12	23	357	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	274.6	2.0	0	0.00	77.	1020.	2	NAD-SFC	NoSubs
7	12	23	357	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	274.4	2.0	0	0.00	77.	1020.	2	NAD-SFC	NoSubs
7	12	23	357	7	-1.1	0.068	-9.000	-9.000	-999.	43.	27.2	0.0310	0.72	1.00	0.50	99.0	15.0	274.0	2.0	0	0.00	78.	1020.	2	NAD-SFC	NoSubs
7	12	23	357	8	-0.9	0.064	-9.000	-9.000	-999.	39.	25.8	0.0310	0.72	0.59	0.50	97.0	15.0	273.8	2.0	0	0.00	79.	1020.	2	NAD-SFC	NoSubs
7	12	23	357	9	15.7	-9.000	-9.000	-9.000	55.	-999.	-99999.0	0.0471	0.72	0.34	0.00	0.0	15.0	275.2	2.0	0	0.00	75.	1020.	2	NAD-SFC	NoSubs
7	12	23	357	10	55.3	-9.000	-9.000	-9.000	160.	-999.	-99999.0	0.0471	0.72	0.25	0.00	0.0	15.0	278.6	2.0	0	0.00	57.	1020.	2	NAD-SFC	NoSubs
7	12	23	357	11	83.4	-9.000	-9.000	-9.000	280.	-999.	-99999.0	0.0471	0.72	0.22	0.00	0.0	15.0	280.4	2.0	0	0.00	51.	1019.	2	NAD-SFC	NoSubs
7	12	23	357	12	97.5	0.086	1.008	0.014	381.	60.	-1.0	0.0800	0.72	0.21	0.50	305.0	15.0	282.1	2.0	0	0.00	46.	1018.	2	NAD-SFC	NoSubs
7	12	23	357	13	97.0	0.131	1.064	0.014	451.	114.	-2.1	0.0800	0.72	0.21	1.00	309.0	15.0	283.8	2.0	0	0.00	41.	1017.	2	NAD-SFC	NoSubs
7	12	23	357	14	81.8	0.128	1.042	0.014	501.	111.	-2.3	0.0800	0.72	0.22	1.00	326.0	15.0	284.4	2.0	0	0.00	41.	1016.	2	NAD-SFC	NoSubs
7	12	23	357	15	52.7	0.165	0.918	0.013	531.	161.	-7.7	0.0950	0.72	0.26	1.50	350.0	15.0	284.8	2.0	0	0.00	42.	1016.	2	NAD-SFC	NoSubs
7	12	23	357	16	12.6	0.068	0.573	0.013	538.	48.	-2.3	0.0960	0.72	0.35	0.50	8.0	15.0	284.8	2.0	0	0.00	46.	1016.	2	NAD-SFC	NoSubs
7	12	23	357	17	-0.9	0.065	-9.000	-9.000	-999.	39.	25.9	0.0280	0.72	0.64	0.50	128.0	15.0	283.9	2.0	0	0.00	50.	1016.	2	NAD-SFC	NoSubs
7	12	23	357	18	-1.0	0.067	-9.000	-9.000	-999.	41.	26.6	0.0280	0.72	1.00	0.50	144.0	15.0	282.8	2.0	0	0.00	56.	1016.	2	NAD-SFC	NoSubs
7	12	23	357	19	-1.0	0.067	-9.000	-9.000	-999.	41.	26.6	0.0280	0.72	1.00	0.50	146.0	15.0	281.8	2.0	0	0.00	60.	1016.	2	NAD-SFC	NoSubs
7	12	23	357	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	280.9	2.0	0	0.00	64.	1016.	2	NAD-SFC	NoSubs
7	12	23	357	21	-1.1	0.069	-9.000	-9.000	-999.	44.	27.6	0.0400	0.72	1.00	0.50	76.0	15.0	280.0	2.0	0	0.00	69.	1016.	2	NAD-SFC	NoSubs
7	12	23	357	22	-1.1	0.069	-9.000	-9.000	-999.	44.	27.6	0.0400	0.72	1.00	0.50	77.0	15.0	279.4	2.0	0	0.00	72.	1016.	2	NAD-SFC	NoSubs
7	12	23	357	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	279.0	2.0	0	0.00	74.	1017.	2	NAD-SFC	NoSubs
7	12	23	357	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	278.6	2.0	0	0.00	76.	1016.	2	NAD-SFC	NoSubs
7	12	24	358	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	278.8	2.0	0	0.00	76.	1016.	2	NAD-SFC	NoSubs
7	12	24	358	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	278.8	2.0	0	0.00	77.	1016.	2	NAD-SFC	NoSubs
7	12	24	358	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	278.8	2.0	0	0.00	79.	1015.	2	NAD-SFC	NoSubs
7	12	24	358	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	278.5	2.0	0	0.00	82.	1015.	2	NAD-SFC	NoSubs
7	12	24	358	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	278.2	2.0	0	0.00	85.	1015.	2	NAD-SFC	NoSubs
7	12	24	358	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	277.9	2.0	0	0.00	89.	1015.	3	NAD-SFC	NoSubs
7	12	24	358	7	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	277.6	2.0	0	0.00	92.	1014.	3	NAD-SFC	NoSubs
7	12	24	358	8	-0.8	0.061	-9.000	-9.000	-999.	36.	24.4	0.0200	0.72	0.60	0.50	242.0	15.0	277.4	2.0	0	0.00	95.	1014.	3	NAD-SFC	NoSubs
7	12	24	358	9	17.4	0.061	0.300	0.013	56.	36.	-1.2	0.0420	0.72	0.34	0.50	298.0	15.0	278.8	2.0	0	0.00	90.	1014.	3	NAD-SFC	NoSubs
7	12	24	358	10	56.8	0.123	0.629	0.011	158.	103.	-3.0	0.0800	0.72	0.25	1.00	324.0	15.0	281.4	2.0	0	0.00	81.	1014.	3	NAD-SFC	NoSubs
7	12	24	358	11	84.8	0.168	0.913	0.012	325.	166.	-5.1	0.0800	0.72	0.22	1.50	328.0	15.0	283.2	2.0	0	0.00	76.	1014.	3	NAD-SFC	NoSubs
7	12	24	358	12	98.8	0.177	1.060	0.013	436.	178.	-5.1	0.0950	0.72	0.21	1.50	333.0	15.0	284.2	2.0	0	0.00	75.	1013.	3	NAD-SFC	NoSubs
7	12	24	358	13	98.3	0.216	1.111	0.013	504.	241.	-9.3	0.0800	0.72	0.21	2.10	327.0	15.0	285.2	2.0	0	0.00	74.	1013.	3	NAD-SFC	NoSubs
7	12	24	358	14	82.2	0.248	1.080	0.013	554.	296.	-16.8	0.0800	0.72	0.22	2.60	327.0	15.0	285.2	2.0	0	0.00	79.	1013.	2	NAD-SFC	NoSubs
7	12	24	358	15	53.1	0.062	0.950	0.013	584.	95.	-1.0	0.0200	0.72	0.26	0.50	245.0	15.0	285.0	2.0	0	0.00	83.	1013.	2	NAD-SFC	NoSubs
7	12	24	358	16	13.1	0.115	0.598	0.013	591.	93.	-10.5	0.0220	0.72	0.35	1.50	184.0	15.0	284.9	2.0	0	0.00	85.	1013.	2	NAD-SFC	NoSubs
7	12	24	358	17	-10.9	0.147	-9.000	-9.000	-999.	135.	26.0	0.0240	0.72	0.64	2.60	179.0	15.0	284.6	2.0	0	0.00	87.	1013.	2	NAD-SFC	NoSubs
7	12	24	358	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	284.8	2.0	0	0.00	81.	1013.	2	NAD-SFC	NoSubs
7	12	24	358	19	-1.3	0.075	-9.000	-9.000	-999.	49.	29.7	0.0960	0.72	1.00	0.50	25.0	15.0	284.2	2.0	0	0.00	77.	1013.	2	NAD-SFC	NoSubs
7	12	24	358	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	283.8	2.0	0	0.00	72.	1013.	2	NAD-SFC	NoSubs
7	12	24	358	21	-2.2	0.073	-9.000	-9.000	-999.	48.	16.6	0.0200	0.72	1.00	1.00	250.0	15.0	283.1	2.0	0	0.00	66.	1014.	2	NAD-SFC	NoSubs
7	12	24	358	22	-21.9	0.205	-9.000	-9.000	-999.	222.	35.5	0.0220	0.72	1.00	3.60	225.0	15.0	281.8	2.0	0	0.00	65.	1014.	2	NAD-SFC	NoSubs
7	12	24	358	23	-11.1	0.144	-9.000	-9.000	-999.	132.	24.2	0.0220	0.72	1.00	2.60	231.0	15.0	280.2	2.0	0	0.00	66.	1014.	2	NAD-SFC	NoSubs
7	12	24	358	24	-2.9	0.085	-9.000	-9.000	-999.	61.	19.6	0.0800	0.72	1.00	1.00	303.0	15.0	279.2	2.0	0	0.00	66.	1014.	2	NAD-SFC	NoSubs
7	12	25	359	1	-1.3	0.075	-9.000	-9.000	-999.	50.	29.9	0.0950	0.72	1.00	0.50	350.0	15.0	278.6	2.0	0	0.00	68.	1015.	2	NAD-SFC	NoSubs
7	12	25	359	2	-1.3	0.075	-9.000	-9.000	-999.	50.	29.9	0.0950	0.72	1.00	0.50	337.0	15.0	278.1	2.0	0	0.00	68.	1015.	2	NAD-SFC	NoSubs
7	12	25	359	3	-1.3	0.074	-9.000	-9.000	-999.	48.	29.4	0.0800	0.72	1.00	0.50	310.0	15.0	277.6	2.0	0	0.00	67.	1015.	2	NAD-SFC	NoSubs
7	12	25	359	4	-2.9	0.086	-9.000	-9.000	-999.	60.	19.6	0.0800	0.72	1.00	1.00	300.0	15.0	277.0	2.0	0	0.00	67.	1015.	2	NAD-SFC	NoSubs
7	12	25	359	5	-4.5	0.095	-9.000	-9.000	-999.	71.	17.3	0.0420	0.72	1.00	1.50	289.0	15.0	276.4	2.0	0	0.00	67.	1015.	2	NAD-SFC	NoSubs
7	12	25	359	6	-8.5	0.128	-9.000	-9.000	-999.	110.	22.2	0.0420	0.72	1.00	2.10	291.0	15.0	275.9	2.0	0	0.00	67.	1016.	2	NAD-SFC	NoSubs
7	12	25	359	7	-8.5	0.128	-9.000	-9.000	-999.	110.	22.2	0.0420	0.72	1.00	2.10	279.0	15.0	275.4	2.0	0	0.00	67.	1016.	2	NAD-SFC	NoSubs
7	12	25	359	8	-8.1	0.128	-9.000	-9.000	-999.	110.	23.8	0.0420	0.72	0.60	2.10	277.0	15.0	275.0	2.0	0	0.00	67.	1017.	2	NAD-SFC	NoSubs
7	12	25	359	9	15.2	0.143	0.316	0.010	75.	129.	-17.3	0.0800	0.72	0.34	1.50	305.0	15.0	276.0	2.0	0	0.00	61.	1017.	2	NAD-SFC	NoSubs
7	12	25	359	10	54.7	0.071	0.705	0.011	232.	47.	-1.0	0.0420	0.72	0.25	0.50	299.0	15.0	277.8	2.0	0	0.00	52.	1017.	2	NAD-SFC	NoSubs
7	12	25	359	11	83.0	0.066	0.905	0.010	324.	40.	-1.0	0.0200	0.72	0.22	0.50	246.0	15.0	279.5	2.0	0	0.00	46.	1017.	2	NAD-SFC	NoSubs
7	12	25	359	12	97.3	0.103	1.035	0.010	414.	80.	-1.0	0.0200	0.72	0.21	1.00	264.0	15.0	281.0	2.0	0	0.00	39.	1016.	2	NAD-SFC	NoSubs
7	12	25	359	13	96.9	0.153	1.104	0.010	504.	143.	-3.3	0.0420	0.72	0.21	1.50	280.0	15.0	282.0	2.0	0	0.00	37.	1016.	2	NAD-SFC	NoSubs
7	12	25	359	14	81.9	0.168	1.088	0.009	570.	165.	-5.2	0.0800	0.72	0.22	1.50	309.0	15.0	282.9	2.0	0	0.00	35.	1015.	2	NAD-SFC	NoSubs
7	12	25	359	15	53.0	0.210	0.962	0.009	608.	231.	-15.8	0.0950	0.72	0.25	2.10	340.0	15.0	283.2	2.0	0	0.00	35.	1015.	2	NAD-SFC	NoSubs
7	12	25	359	16	13.0	-9.000	-9.000	-9.000	617.	-999.	-99999.0	0.0471	0.72	0.35	0.00	0.0	15.0	283.0	2.0	0	0.00	39.	1014.	2	NAD-SFC	NoSubs
7	12	25	359	17	-2.8	0.085	-9.000	-9.000	-999.	59.	19.8	0.0960	0.72	0.63	1.00	22.0	15.0	282.2	2.0	0	0.00	43.	1014.	2	NAD-SFC	NoSubs
7	12	25	359	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	281.2	2.0	0	0.00	47.	1015.	2	NAD-SFC	NoSubs
7	12	25	359	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	280.0	2.0	0	0.00	53.	1015.	2	NAD-SFC	NoSubs
7	12	25	359	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	279.0	2.0	0	0.00	59.	1015.	2	NAD-SFC	NoSubs
7	12	25	359	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	278.0	2.0	0	0.00	64.	1015.	2	NAD-SFC	NoSubs
7	12	25	359	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	277.4	2.0	0	0.00	67.	1015.	2	NAD-SFC	NoSubs
7	12	25	359	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	277.0	2.0	0	0.00	68.	1015.	2	NAD-SFC	NoSubs
7	12	25	359	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	276.6	2.0	0	0.00	69.	1015.	2	NAD-SFC	NoSubs
7	12	26	360	1	-1.1	0.070	-9.000	-9.000	-999.	44.	27.8	0.0420	0.72	1.00	0.50	286.0	15.0	276.2	2.0	0	0.00	69.	1015.	2	NAD-SFC	NoSubs
7	12	26	360	2	-2.5	0.080	-9.000	-9.000	-999.	54.	18.1	0.0420	0.72	1.00	1.00	279.0	15.0	276.0	2.0	0	0.00	68.	1015.	2	NAD-SFC	NoSubs
7	12	26	360	3	-4.5	0.095	-9.000	-9.000	-999.	71.	17.3	0.0420	0.72	1.00	1.50	287.0	15.0	275.8	2.0	0	0.00	68.	1014.	2	NAD-SFC	NoSubs
7	12	26	360	4	-4.5	0.095	-9.000	-9.000	-999.	71.	17.3	0.0420	0.72	1.00	1.50	298.0	15.0	275.2	2.0	0	0.00	69.	1014.	2	NAD-SFC	NoSubs
7	12	26	360	5	-4.5	0.095	-9.000	-9.000	-999.	71.	17.3	0.0420	0.72	1.00	1.50	299.0	15.0	274.8	2.0	0	0.00	71.	1014.	2	NAD-SFC	NoSubs
7	12	26	360	6	-2.9	0.086	-9.000	-9.000	-999.	60.	19.6	0.0800	0.72	1.00	1.00	312.0	15.0	274.4	2.0	0	0.00	72.	1015.	2	NAD-SFC	NoSubs
7	12	26	360	7	-2.5	0.080	-9.000	-9.000	-999.	54.	18.2	0.0420	0.72	1.00	1.00	297.0	15.0	273.9	2.0	0	0.00	73.	1015.	2	NAD-SFC	NoSubs

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 7 12 26 360  8   -2.6  0.083 -9.000 -9.000 -999.   57.     19.2  0.0800  0.72  0.60   1.00  303.0  15.0  273.6   2.0    0   0.00   75.  1015.    2 NAD-SFC NoSubs
 7 12 26 360  9   14.8  0.142  0.301  0.010   66.   129.    -17.6  0.0800  0.72  0.34   1.50  328.0  15.0  274.9   2.0    0   0.00   71.  1015.    2 NAD-SFC NoSubs
 7 12 26 360 10   55.7  0.166  0.628  0.010  161.   162.     -7.4  0.0950  0.72  0.25   1.50  344.0  15.0  276.8   2.0    0   0.00   66.  1015.    3 NAD-SFC NoSubs
 7 12 26 360 11   83.5  0.256  0.870  0.008  286.   311.    -18.2  0.0950  0.72  0.22   2.60  337.0  15.0  278.5   2.0    0   0.00   60.  1014.    4 NAD-SFC NoSubs
 7 12 26 360 12   97.4  0.296  1.035  0.008  411.   387.    -24.1  0.0950  0.72  0.21   3.10  338.0  15.0  279.8   2.0    0   0.00   58.  1013.    4 NAD-SFC NoSubs
 7 12 26 360 13   97.7  0.369  1.116  0.008  514.   537.    -46.3  0.0950  0.72  0.21   4.10  339.0  15.0  281.1   2.0    0   0.00   58.  1013.    3 NAD-SFC NoSubs
 7 12 26 360 14   83.0  0.438  1.106  0.008  588.   695.    -91.3  0.0950  0.72  0.22   5.10  337.0  15.0  282.0   2.0    0   0.00   60.  1012.    3 NAD-SFC NoSubs
 7 12 26 360 15   54.4  0.548  0.984  0.007  632.   974.   -273.5  0.0950  0.72  0.25   6.70  333.0  15.0  282.2   2.0    0   0.00   63.  1012.    3 NAD-SFC NoSubs
 7 12 26 360 16   12.9  0.443  0.612  0.008  639.   718.   -607.0  0.0800  0.72  0.35   5.70  328.0  15.0  280.6   2.0    0   0.00   68.  1012.    2 NAD-SFC NoSubs
 7 12 26 360 17  -29.6  0.297 -9.000 -9.000 -999.   405.     79.6  0.0800  0.72  0.63   4.10  308.0  15.0  279.2   2.0    0   0.00   75.  1012.    3 NAD-SFC NoSubs
 7 12 26 360 18  -22.7  0.220 -9.000 -9.000 -999.   251.     42.6  0.0800  0.72  1.00   3.10  302.0  15.0  278.6   2.0    0   0.00   77.  1012.    3 NAD-SFC NoSubs
 7 12 26 360 19   -8.4  0.128 -9.000 -9.000 -999.   114.     22.6  0.0420  0.72  1.00   2.10  292.0  15.0  278.2   2.0    0   0.00   77.  1012.    3 NAD-SFC NoSubs
 7 12 26 360 20   -1.1  0.069 -9.000 -9.000 -999.    44.     27.5  0.0420  0.72  1.00   0.50  272.0  15.0  277.6   2.0    0   0.00   77.  1012.    3 NAD-SFC NoSubs
 7 12 26 360 21   -1.0  0.066 -9.000 -9.000 -999.    41.     26.2  0.0220  0.72  1.00   0.50  205.0  15.0  277.2   2.0    0   0.00   76.  1012.    2 NAD-SFC NoSubs
 7 12 26 360 22   -1.0  0.066 -9.000 -9.000 -999.    41.     26.3  0.0220  0.72  1.00   0.50  215.0  15.0  276.9   2.0    0   0.00   75.  1013.    2 NAD-SFC NoSubs
 7 12 26 360 23   -1.0  0.065 -9.000 -9.000 -999.    40.     26.1  0.0200  0.72  1.00   0.50  263.0  15.0  276.5   2.0    0   0.00   75.  1013.    2 NAD-SFC NoSubs
 7 12 26 360 24   -1.3  0.074 -9.000 -9.000 -999.    49.     29.5  0.0800  0.72  1.00   0.50  329.0  15.0  275.8   2.0    0   0.00   76.  1012.    2 NAD-SFC NoSubs
 7 12 27 361  1   -1.2  0.073 -9.000 -9.000 -999.    47.     29.0  0.0650  0.72  1.00   0.50   30.0  15.0  275.4   2.0    0   0.00   76.  1013.    2 NAD-SFC NoSubs
 7 12 27 361  2   -1.2  0.073 -9.000 -9.000 -999.    47.     29.0  0.0650  0.72  1.00   0.50   42.0  15.0  275.0   2.0    0   0.00   75.  1013.    2 NAD-SFC NoSubs
 7 12 27 361  3   -1.3  0.076 -9.000 -9.000 -999.    50.     30.0  0.0950  0.72  1.00   0.50  354.0  15.0  274.6   2.0    0   0.00   75.  1013.    2 NAD-SFC NoSubs
 7 12 27 361  4   -1.3  0.075 -9.000 -9.000 -999.    49.     29.6  0.0800  0.72  1.00   0.50  325.0  15.0  274.2   2.0    0   0.00   74.  1013.    2 NAD-SFC NoSubs
 7 12 27 361  5   -2.9  0.086 -9.000 -9.000 -999.    60.     19.6  0.0800  0.72  1.00   1.00  311.0  15.0  273.8   2.0    0   0.00   74.  1013.    2 NAD-SFC NoSubs
 7 12 27 361  6   -2.9  0.086 -9.000 -9.000 -999.    60.     19.6  0.0800  0.72  1.00   1.00  305.0  15.0  273.5   2.0    0   0.00   73.  1014.    2 NAD-SFC NoSubs
 7 12 27 361  7   -2.5  0.080 -9.000 -9.000 -999.    54.     18.2  0.0420  0.72  1.00   1.00  286.0  15.0  273.2   2.0    0   0.00   74.  1014.    2 NAD-SFC NoSubs
 7 12 27 361  8   -2.7  0.083 -9.000 -9.000 -999.    57.     19.3  0.0800  0.72  0.60   1.00  301.0  15.0  272.9   2.0    0   0.00   74.  1015.    2 NAD-SFC NoSubs
 7 12 27 361  9   14.5  0.109  0.304  0.008   70.    87.     -8.1  0.0950  0.72  0.34   1.00  344.0  15.0  274.0   2.0    0   0.00   68.  1015.    2 NAD-SFC NoSubs
 7 12 27 361 10   54.2  0.166  0.718  0.008  247.   162.     -7.6  0.0950  0.72  0.25   1.50  352.0  15.0  275.9   2.0    0   0.00   56.  1015.    2 NAD-SFC NoSubs
 7 12 27 361 11   82.5  0.133  0.937  0.006  360.   116.     -2.6  0.0950  0.72  0.22   1.00  331.0  15.0  277.0   2.0    0   0.00   51.  1015.    2 NAD-SFC NoSubs
 7 12 27 361 12   96.9  0.131  1.084  0.006  476.   114.     -2.1  0.0800  0.72  0.21   1.00  318.0  15.0  277.9   2.0    0   0.00   46.  1015.    2 NAD-SFC NoSubs
 7 12 27 361 13   96.7  0.089  1.154  0.005  575.    63.     -1.0  0.0950  0.72  0.21   0.50  333.0  15.0  278.8   2.0    0   0.00   43.  1014.    2 NAD-SFC NoSubs
 7 12 27 361 14   81.8 -9.000 -9.000 -9.000  646.  -999. -99999.0  0.0471  0.72  0.22   0.00    0.0  15.0  279.1   2.0    0   0.00   42.  1014.    2 NAD-SFC NoSubs
 7 12 27 361 15   53.0 -9.000 -9.000 -9.000  709.  -999. -99999.0  0.0471  0.72  0.25   0.00    0.0  15.0  279.2   2.0    0   0.00   42.  1014.    2 NAD-SFC NoSubs
 7 12 27 361 16   13.1  0.055  0.640  0.005  724.    31.     -1.2  0.0280  0.72  0.35   0.50  140.0  15.0  279.0   2.0    0   0.00   46.  1014.    2 NAD-SFC NoSubs
 7 12 27 361 17   -2.2  0.074 -9.000 -9.000 -999.    48.     16.9  0.0280  0.72  0.62   1.00  136.0  15.0  278.5   2.0    0   0.00   49.  1013.    2 NAD-SFC NoSubs
 7 12 27 361 18   -4.1  0.090 -9.000 -9.000 -999.    65.     16.1  0.0280  0.72  1.00   1.50  141.0  15.0  277.8   2.0    0   0.00   53.  1014.    2 NAD-SFC NoSubs
 7 12 27 361 19  -11.9  0.150 -9.000 -9.000 -999.   139.     25.5  0.0280  0.72  1.00   2.60  141.0  15.0  277.1   2.0    0   0.00   57.  1014.    2 NAD-SFC NoSubs
 7 12 27 361 20  -16.5  0.177 -9.000 -9.000 -999.   178.     30.2  0.0240  0.72  1.00   3.10  150.0  15.0  276.4   2.0    0   0.00   61.  1014.    2 NAD-SFC NoSubs
 7 12 27 361 21  -17.2  0.181 -9.000 -9.000 -999.   185.     31.3  0.0280  0.72  1.00   3.10  148.0  15.0  275.8   2.0    0   0.00   63.  1014.    2 NAD-SFC NoSubs
 7 12 27 361 22  -17.2  0.181 -9.000 -9.000 -999.   185.     31.3  0.0280  0.72  1.00   3.10  140.0  15.0  275.5   2.0    0   0.00   64.  1014.    2 NAD-SFC NoSubs
 7 12 27 361 23  -17.2  0.181 -9.000 -9.000 -999.   185.     31.3  0.0280  0.72  1.00   3.10  127.0  15.0  275.2   2.0    0   0.00   63.  1014.    2 NAD-SFC NoSubs
 7 12 27 361 24  -11.9  0.150 -9.000 -9.000 -999.   139.     25.4  0.0280  0.72  1.00   2.60  130.0  15.0  275.2   2.0    0   0.00   62.  1014.    2 NAD-SFC NoSubs
 7 12 28 362  1  -11.9  0.150 -9.000 -9.000 -999.   139.     25.4  0.0280  0.72  1.00   2.60  132.0  15.0  275.0   2.0    0   0.00   61.  1014.    2 NAD-SFC NoSubs
 7 12 28 362  2  -11.8  0.150 -9.000 -9.000 -999.   139.     25.8  0.0280  0.72  1.00   2.60  145.0  15.0  274.9   2.0    0   0.00   61.  1014.    3 NAD-SFC NoSubs
 7 12 28 362  3   -7.6  0.120 -9.000 -9.000 -999.    99.     20.3  0.0280  0.72  1.00   2.10  138.0  15.0  274.5   2.0    0   0.00   61.  1013.    3 NAD-SFC NoSubs
 7 12 28 362  4   -4.1  0.090 -9.000 -9.000 -999.    65.     16.1  0.0280  0.72  1.00   1.50  128.0  15.0  274.1   2.0    0   0.00   62.  1013.    3 NAD-SFC NoSubs
 7 12 28 362  5   -2.2  0.075 -9.000 -9.000 -999.    49.     17.1  0.0280  0.72  1.00   1.00  124.0  15.0  273.8   2.0    0   0.00   63.  1013.    4 NAD-SFC NoSubs
 7 12 28 362  6   -2.3  0.076 -9.000 -9.000 -999.    50.     17.3  0.0310  0.72  1.00   1.00  106.0  15.0  273.4   2.0    0   0.00   63.  1013.    4 NAD-SFC NoSubs
 7 12 28 362  7   -2.3  0.076 -9.000 -9.000 -999.    50.     17.3  0.0310  0.72  1.00   1.00  113.0  15.0  273.2   2.0    0   0.00   63.  1013.    4 NAD-SFC NoSubs
 7 12 28 362  8   -0.9  0.063 -9.000 -9.000 -999.    38.     25.3  0.0310  0.72  0.61   0.50  106.0  15.0  273.1   2.0    0   0.00   63.  1013.    4 NAD-SFC NoSubs
 7 12 28 362  9   17.0  0.058  0.300  0.010   57.    33.     -1.0  0.0310  0.72  0.34   0.50  113.0  15.0  273.8   2.0    0   0.00   63.  1013.    4 NAD-SFC NoSubs
 7 12 28 362 10   55.8  0.066  0.657  0.007  184.    41.     -1.0  0.0280  0.72  0.25   0.50  144.0  15.0  277.0   2.0    0   0.00   44.  1013.    4 NAD-SFC NoSubs
 7 12 28 362 11   81.4  0.067  0.921  0.006  347.    42.     -1.0  0.0240  0.72  0.22   0.50  162.0  15.0  279.1   2.0    0   0.00   38.  1013.    5 NAD-SFC NoSubs
 7 12 28 362 12   95.0  0.069  1.089  0.006  491.    43.     -1.0  0.0240  0.72  0.21   0.50  156.0  15.0  280.6   2.0    0   0.00   36.  1012.    5 NAD-SFC NoSubs
 7 12 28 362 13   89.4  0.068  1.142  0.005  601.    43.     -1.0  0.0240  0.72  0.21   0.50  156.0  15.0  281.8   2.0    0   0.00   35.  1012.    6 NAD-SFC NoSubs
 7 12 28 362 14   76.7 -9.000 -9.000 -9.000  682.  -999. -99999.0  0.0471  0.72  0.22   0.00    0.0  15.0  282.4   2.0    0   0.00   34.  1011.    6 NAD-SFC NoSubs
 7 12 28 362 15   51.7 -9.000 -9.000 -9.000  730.  -999. -99999.0  0.0471  0.72  0.25   0.00    0.0  15.0  282.8   2.0    0   0.00   35.  1011.    6 NAD-SFC NoSubs
 7 12 28 362 16   17.0  0.068  0.706  0.005  745.    43.     -1.7  0.0800  0.72  0.35   0.50  310.0  15.0  282.5   2.0    0   0.00   39.  1011.    6 NAD-SFC NoSubs
 7 12 28 362 17   -1.0  0.066 -9.000 -9.000 -999.    41.     26.8  0.0950  0.72  0.62   0.50  345.0  15.0  281.8   2.0    0   0.00   43.  1010.    6 NAD-SFC NoSubs
 7 12 28 362 18   -1.2  0.072 -9.000 -9.000 -999.    46.     28.7  0.0960  0.72  1.00   0.50   21.0  15.0  280.6   2.0    0   0.00   49.  1010.    5 NAD-SFC NoSubs
 7 12 28 362 19   -2.5  0.080 -9.000 -9.000 -999.    54.     18.7  0.0650  0.72  1.00   1.00   34.0  15.0  279.6   2.0    0   0.00   55.  1011.    5 NAD-SFC NoSubs
 7 12 28 362 20   -2.5  0.080 -9.000 -9.000 -999.    54.     18.7  0.0650  0.72  1.00   1.00   38.0  15.0  278.8   2.0    0   0.00   61.  1011.    5 NAD-SFC NoSubs
 7 12 28 362 21 -999.0 -9.000 -9.000 -9.000 -999.  -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  277.9   2.0    0   0.00   66.  1011.    4 NAD-SFC NoSubs
 7 12 28 362 22 -999.0 -9.000 -9.000 -9.000 -999.  -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  277.2   2.0    0   0.00   70.  1012.    4 NAD-SFC NoSubs
 7 12 28 362 23   -1.0  0.066 -9.000 -9.000 -999.    41.     26.5  0.0310  0.72  1.00   0.50  114.0  15.0  276.5   2.0    0   0.00   75.  1012.    4 NAD-SFC NoSubs
 7 12 28 362 24   -1.0  0.066 -9.000 -9.000 -999.    41.     26.5  0.0310  0.72  1.00   0.50  118.0  15.0  276.0   2.0    0   0.00   79.  1012.    4 NAD-SFC NoSubs
 7 12 29 363  1   -2.3  0.076 -9.000 -9.000 -999.    50.     17.2  0.0280  0.72  1.00   1.00  121.0  15.0  275.8   2.0    0   0.00   82.  1012.    3 NAD-SFC NoSubs
 7 12 29 363  2   -1.0  0.067 -9.000 -9.000 -999.    42.     26.9  0.0310  0.72  1.00   0.50  112.0  15.0  275.4   2.0    0   0.00   85.  1012.    3 NAD-SFC NoSubs
 7 12 29 363  3   -1.0  0.067 -9.000 -9.000 -999.    42.     26.9  0.0310  0.72  1.00   0.50  101.0  15.0  275.0   2.0    0   0.00   89.  1012.    3 NAD-SFC NoSubs
 7 12 29 363  4   -1.3  0.075 -9.000 -9.000 -999.    49.     29.8  0.0960  0.72  1.00   0.50    1.0  15.0  274.4   2.0    0   0.00   94.  1012.    3 NAD-SFC NoSubs
 7 12 29 363  5   -1.2  0.074 -9.000 -9.000 -999.    48.     29.3  0.0800  0.72  1.00   0.50  318.0  15.0  273.8   2.0    0   0.00   99.  1012.    3 NAD-SFC NoSubs
 7 12 29 363  6   -1.2  0.074 -9.000 -9.000 -999.    48.     29.3  0.0800  0.72  1.00   0.50  301.0  15.0  273.2   2.0    0   0.00  100.  1012.    3 NAD-SFC NoSubs
 7 12 29 363  7 -999.0 -9.000 -9.000 -9.000 -999.  -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  273.2   2.0    0   0.00  100.  1013.    3 NAD-SFC NoSubs
 7 12 29 363  8 -999.0 -9.000 -9.000 -9.000 -999.  -999. -99999.0  0.0471  0.72  0.61   0.00    0.0  15.0  273.2   2.0    0   0.00  100.  1013.    3 NAD-SFC NoSubs
 7 12 29 363  9   15.8 -9.000 -9.000 -9.000   52.  -999. -99999.0  0.0471  0.72  0.34   0.00    0.0  15.0  274.5   2.0    0   0.00   97.  1013.    3 NAD-SFC NoSubs
 7 12 29 363 10   55.6 -9.000 -9.000 -9.000  149.  -999. -99999.0  0.0471  0.72  0.25   0.00    0.0  15.0  276.2   2.0    0   0.00   93.  1013.    4 NAD-SFC NoSubs
 7 12 29 363 11   83.4 -9.000 -9.000 -9.000  305.  -999. -99999.0  0.0471  0.72  0.22   0.00    0.0  15.0  278.0   2.0    0   0.00   84.  1013.    4 NAD-SFC NoSubs
 7 12 29 363 12   97.8 -9.000 -9.000 -9.000  468.  -999. -99999.0  0.0471  0.72  0.21   0.00    0.0  15.0  280.5   2.0    0   0.00   70.  1012.    4 NAD-SFC NoSubs
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 7 12 29 363 13   98.1 -9.000 -9.000 -9.000  600. -999. -99999.0 0.0471 0.72 0.21 0.00   0.0 15.0 282.4 2.0 0 0.00 62. 1012.  4 NAD-SFC NoSubs
 7 12 29 363 14   84.1 -9.000 -9.000 -9.000  684. -999. -99999.0 0.0471 0.72 0.22 0.00   0.0 15.0 283.5 2.0 0 0.00 58. 1011.  4 NAD-SFC NoSubs
 7 12 29 363 15   56.4 -9.000 -9.000 -9.000  726. -999. -99999.0 0.0471 0.72 0.25 0.00   0.0 15.0 284.0 2.0 0 0.00 57. 1011.  4 NAD-SFC NoSubs
 7 12 29 363 16   17.8 -9.000 -9.000 -9.000  739. -999. -99999.0 0.0471 0.72 0.34 0.00   0.0 15.0 284.1 2.0 0 0.00 59. 1010.  4 NAD-SFC NoSubs
 7 12 29 363 17    8.4 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 0.61 0.00   0.0 15.0 283.4 2.0 0 0.00 63. 1010.  4 NAD-SFC NoSubs
 7 12 29 363 18   -1.0  0.065 -9.000 -9.000 -999.  40.     26.2 0.0310 0.72 1.00 0.50 101.0 15.0 282.4 2.0 0 0.00 68. 1010.  4 NAD-SFC NoSubs
 7 12 29 363 19   -2.2  0.075 -9.000 -9.000 -999.  49.     17.2 0.0310 0.72 1.00 1.00 116.0 15.0 281.5 2.0 0 0.00 72. 1010.  4 NAD-SFC NoSubs
 7 12 29 363 20   -4.0  0.090 -9.000 -9.000 -999.  65.     16.6 0.0310 0.72 1.00 1.50 116.0 15.0 280.8 2.0 0 0.00 76. 1011.  4 NAD-SFC NoSubs
 7 12 29 363 21   -7.4  0.122 -9.000 -9.000 -999. 102.     22.1 0.0310 0.72 1.00 2.10 118.0 15.0 280.2 2.0 0 0.00 79. 1011.  5 NAD-SFC NoSubs
 7 12 29 363 22   -7.2  0.120 -9.000 -9.000 -999.  99.     21.5 0.0280 0.72 1.00 2.10 121.0 15.0 279.8 2.0 0 0.00 81. 1011.  5 NAD-SFC NoSubs
 7 12 29 363 23   -7.2  0.122 -9.000 -9.000 -999. 102.     22.8 0.0310 0.72 1.00 2.10 116.0 15.0 279.2 2.0 0 0.00 84. 1012.  6 NAD-SFC NoSubs
 7 12 29 363 24   -3.3  0.087 -9.000 -9.000 -999.  62.     18.0 0.0310 0.72 1.00 1.50 116.0 15.0 278.6 2.0 0 0.00 86. 1012.  8 NAD-SFC NoSubs
 7 12 30 364  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 278.1 2.0 0 0.00 89. 1012. 10 NAD-SFC NoSubs
 7 12 30 364  2   -1.7  0.072 -9.000 -9.000 -999.  46.     19.2 0.0800 0.72 1.00 1.00 300.0 15.0 277.5 2.0 0 0.00 95. 1012. 10 NAD-SFC NoSubs
 7 12 30 364  3   -1.5  0.065 -9.000 -9.000 -999.  40.     17.0 0.0420 0.72 1.00 1.00 287.0 15.0 277.8 2.0 0 0.00 97. 1012. 10 NAD-SFC NoSubs
 7 12 30 364  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 278.1 2.0 0 0.00 98. 1012. 10 NAD-SFC NoSubs
 7 12 30 364  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 278.4 2.0 0 0.00 98. 1013. 10 NAD-SFC NoSubs
 7 12 30 364  6   -0.5  0.050 -9.000 -9.000 -999.  27.     21.2 0.0280 0.72 1.00 0.50 147.0 15.0 278.6 2.0 0 0.00 98. 1013. 10 NAD-SFC NoSubs
 7 12 30 364  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 278.8 2.0 0 0.00 98. 1013. 10 NAD-SFC NoSubs
 7 12 30 364  8   -0.5  0.049 -9.000 -9.000 -999.  26.     20.8 0.0280 0.72 0.61 0.50 129.0 15.0 279.0 2.0 0 0.00 98. 1013. 10 NAD-SFC NoSubs
 7 12 30 364  9   -0.3  0.060 -9.000 -9.000 -999.  35.     76.8 0.0280 0.72 0.34 1.00 129.0 15.0 279.2 2.0 0 0.00 98. 1013. 10 NAD-SFC NoSubs
 7 12 30 364 10   56.1  0.064  0.595  0.009  135.  39.     -1.0 0.0240 0.72 0.25 0.50 164.0 15.0 280.2 2.0 0 0.00 95. 1013.  4 NAD-SFC NoSubs
 7 12 30 364 11   84.3  0.067  0.842  0.006  256.  41.     -1.0 0.0220 0.72 0.22 0.50 234.0 15.0 281.4 2.0 0 0.00 91. 1013.  3 NAD-SFC NoSubs
 7 12 30 364 12   98.8  0.104  1.012  0.005  379.  80.     -1.0 0.0200 0.72 0.21 1.00 266.0 15.0 281.8 2.0 0 0.00 91. 1013.  3 NAD-SFC NoSubs
 7 12 30 364 13   98.9  0.117  1.146  0.005  550.  96.     -1.5 0.0420 0.72 0.21 1.00 288.0 15.0 282.0 2.0 0 0.00 91. 1012.  3 NAD-SFC NoSubs
 7 12 30 364 14   84.4  0.168  1.161  0.005  669. 166.     -5.1 0.0800 0.72 0.22 1.50 315.0 15.0 282.0 2.0 0 0.00 91. 1012.  3 NAD-SFC NoSubs
 7 12 30 364 15   56.1  0.161  1.047  0.005  738. 155.     -6.7 0.0800 0.72 0.25 1.50 321.0 15.0 281.9 2.0 0 0.00 92. 1011.  3 NAD-SFC NoSubs
 7 12 30 364 16   16.7  0.148  0.705  0.005  756. 137.    -17.6 0.0950 0.72 0.34 1.50 332.0 15.0 281.6 2.0 0 0.00 94. 1011.  3 NAD-SFC NoSubs
 7 12 30 364 17   -2.6  0.083 -9.000 -9.000 -999.  58.     19.6 0.0950 0.72 0.61 1.00 351.0 15.0 281.2 2.0 0 0.00 95. 1011.  3 NAD-SFC NoSubs
 7 12 30 364 18   -3.0  0.087 -9.000 -9.000 -999.  62.     20.0 0.0950 0.72 1.00 1.00 338.0 15.0 281.2 2.0 0 0.00 96. 1011.  2 NAD-SFC NoSubs
 7 12 30 364 19   -1.2  0.074 -9.000 -9.000 -999.  48.     29.3 0.0800 0.72 1.00 0.50 318.0 15.0 281.1 2.0 0 0.00 96. 1011.  2 NAD-SFC NoSubs
 7 12 30 364 20   -1.2  0.074 -9.000 -9.000 -999.  48.     29.3 0.0800 0.72 1.00 0.50 320.0 15.0 281.1 2.0 0 0.00 96. 1012.  2 NAD-SFC NoSubs
 7 12 30 364 21   -1.2  0.073 -9.000 -9.000 -999.  47.     29.1 0.0800 0.72 1.00 0.50 317.0 15.0 281.0 2.0 0 0.00 97. 1012.  3 NAD-SFC NoSubs
 7 12 30 364 22   -1.3  0.074 -9.000 -9.000 -999.  49.     29.5 0.0950 0.72 1.00 0.50 341.0 15.0 281.0 2.0 0 0.00 97. 1013.  3 NAD-SFC NoSubs
 7 12 30 364 23   -1.2  0.073 -9.000 -9.000 -999.  47.     29.1 0.0800 0.72 1.00 0.50 318.0 15.0 281.0 2.0 0 0.00 97. 1013.  3 NAD-SFC NoSubs
 7 12 30 364 24   -1.0  0.065 -9.000 -9.000 -999.  40.     25.9 0.0200 0.72 1.00 0.50 248.0 15.0 280.6 2.0 0 0.00 99. 1013.  2 NAD-SFC NoSubs
 7 12 31 365  1   -2.2  0.074 -9.000 -9.000 -999.  48.     16.6 0.0200 0.72 1.00 1.00 257.0 15.0 279.0 2.0 0 0.00 100. 1013. 2 NAD-SFC NoSubs
 7 12 31 365  2   -2.2  0.074 -9.000 -9.000 -999.  48.     16.6 0.0200 0.72 1.00 1.00 252.0 15.0 278.5 2.0 0 0.00 100. 1013. 2 NAD-SFC NoSubs
 7 12 31 365  3   -3.8  0.086 -9.000 -9.000 -999.  61.     15.2 0.0200 0.72 1.00 1.50 265.0 15.0 278.5 2.0 0 0.00 100. 1013. 2 NAD-SFC NoSubs
 7 12 31 365  4   -4.5  0.095 -9.000 -9.000 -999.  71.     17.3 0.0420 0.72 1.00 1.50 271.0 15.0 278.2 2.0 0 0.00 100. 1013. 2 NAD-SFC NoSubs
 7 12 31 365  5   -4.5  0.095 -9.000 -9.000 -999.  71.     17.3 0.0420 0.72 1.00 1.50 278.0 15.0 277.8 2.0 0 0.00 99. 1013.  2 NAD-SFC NoSubs
 7 12 31 365  6   -4.5  0.095 -9.000 -9.000 -999.  71.     17.3 0.0420 0.72 1.00 1.50 294.0 15.0 277.2 2.0 0 0.00 98. 1013.  2 NAD-SFC NoSubs
 7 12 31 365  7   -4.5  0.095 -9.000 -9.000 -999.  71.     17.3 0.0420 0.72 1.00 1.50 293.0 15.0 276.2 2.0 0 0.00 98. 1013.  2 NAD-SFC NoSubs
 7 12 31 365  8   -4.2  0.094 -9.000 -9.000 -999.  69.     17.7 0.0420 0.72 0.61 1.50 294.0 15.0 275.6 2.0 0 0.00 99. 1014.  2 NAD-SFC NoSubs
 7 12 31 365  9   14.0  0.095  0.360  0.008  120.  70.     -5.5 0.0420 0.72 0.34 1.00 293.0 15.0 275.4 2.0 0 0.00 98. 1014.  2 NAD-SFC NoSubs
 7 12 31 365 10   53.9  0.070  0.657  0.007  190.  45.     -1.0 0.0420 0.72 0.25 0.50 299.0 15.0 275.9 2.0 0 0.00 94. 1014.  2 NAD-SFC NoSubs
 7 12 31 365 11   82.8  0.087  0.982  0.014  414.  61.     -1.0 0.0950 0.72 0.22 0.50 333.0 15.0 277.4 2.0 0 0.00 88. 1013.  2 NAD-SFC NoSubs
 7 12 31 365 12   97.6 -9.000 -9.000 -9.000  520. -999. -99999.0 0.0471 0.72 0.21 0.00   0.0 15.0 278.8 2.0 0 0.00 84. 1012.  2 NAD-SFC NoSubs
 7 12 31 365 13   98.0  0.223  1.182  0.017  608.  253.    -10.2 0.0960 0.72 0.21 2.10  23.0 15.0 280.0 2.0 0 0.00 81. 1012.  2 NAD-SFC NoSubs
 7 12 31 365 14   83.7  0.220  1.155  0.017  665.  247.    -11.4 0.0960 0.72 0.22 2.10  21.0 15.0 281.1 2.0 0 0.00 77. 1011.  2 NAD-SFC NoSubs
 7 12 31 365 15   55.3  0.248  1.015  0.017  682.  297.    -24.9 0.0960 0.72 0.25 2.60  15.0 15.0 281.8 2.0 0 0.00 73. 1011.  2 NAD-SFC NoSubs
 7 12 31 365 16   16.6  0.192  0.683  0.017  690.  203.    -38.5 0.0960 0.72 0.34 2.10   4.0 15.0 286.2 2.0 0 0.00 50. 1010.  2 NAD-SFC NoSubs
 7 12 31 365 17  -10.1  0.151 -9.000 -9.000 -999.  141.    30.7 0.0960 0.72 0.60 2.10  10.0 15.0 285.5 2.0 0 0.00 54. 1010.  2 NAD-SFC NoSubs
 7 12 31 365 18  -10.7  0.150 -9.000 -9.000 -999.  140.    28.5 0.0960 0.72 1.00 2.10   7.0 15.0 284.4 2.0 0 0.00 60. 1011.  2 NAD-SFC NoSubs
 7 12 31 365 19   -9.5  0.139 -9.000 -9.000 -999.  124.    25.4 0.0650 0.72 1.00 2.10  43.0 15.0 283.4 2.0 0 0.00 66. 1011.  2 NAD-SFC NoSubs
 7 12 31 365 20   -4.4  0.094 -9.000 -9.000 -999.  70.     17.2 0.0400 0.72 1.00 1.50  67.0 15.0 282.6 2.0 0 0.00 69. 1012.  2 NAD-SFC NoSubs
 7 12 31 365 21   -4.2  0.091 -9.000 -9.000 -999.  66.     16.4 0.0310 0.72 1.00 1.50  99.0 15.0 281.9 2.0 0 0.00 69. 1012.  2 NAD-SFC NoSubs
 7 12 31 365 22   -4.2  0.091 -9.000 -9.000 -999.  66.     16.4 0.0310 0.72 1.00 1.50 102.0 15.0 281.4 2.0 0 0.00 68. 1013.  2 NAD-SFC NoSubs
 7 12 31 365 23   -4.2  0.091 -9.000 -9.000 -999.  66.     16.4 0.0310 0.72 1.00 1.50 104.0 15.0 281.4 2.0 0 0.00 65. 1013.  2 NAD-SFC NoSubs
 7 12 31 365 24   -4.4  0.094 -9.000 -9.000 -999.  70.     17.2 0.0400 0.72 1.00 1.50  88.0 15.0 281.4 2.0 0 0.00 63. 1013.  2 NAD-SFC NoSubs
 8  1  1   1  1   -4.4  0.094 -9.000 -9.000 -999.  70.     17.2 0.0400 0.72 1.00 1.50  81.0 15.0 281.2 2.0 0 0.00 62. 1013.  2 NAD-SFC NoSubs
 8  1  1   1  2   -4.4  0.094 -9.000 -9.000 -999.  70.     17.2 0.0400 0.72 1.00 1.50  68.0 15.0 280.8 2.0 0 0.00 66. 1014.  2 NAD-SFC NoSubs
 8  1  1   1  3   -9.6  0.139 -9.000 -9.000 -999.  124.    25.2 0.0650 0.72 1.00 2.10  54.0 15.0 279.8 2.0 0 0.00 74. 1014.  2 NAD-SFC NoSubs
 8  1  1   1  4  -15.0  0.175 -9.000 -9.000 -999.  175.    32.1 0.0650 0.72 1.00 2.60  33.0 15.0 278.2 2.0 0 0.00 85. 1014.  2 NAD-SFC NoSubs
 8  1  1   1  5  -21.6  0.211 -9.000 -9.000 -999.  233.    39.3 0.0650 0.72 1.00 3.10  33.0 15.0 277.0 2.0 0 0.00 95. 1014.  2 NAD-SFC NoSubs
 8  1  1   1  6  -17.0  0.189 -9.000 -9.000 -999.  198.    36.0 0.0960 0.72 1.00 2.60  22.0 15.0 276.5 2.0 0 0.00 98. 1015.  2 NAD-SFC NoSubs
 8  1  1   1  7  -17.0  0.189 -9.000 -9.000 -999.  197.    36.0 0.0960 0.72 1.00 2.60  25.0 15.0 276.2 2.0 0 0.00 99. 1015.  2 NAD-SFC NoSubs
 8  1  1   1  8   -9.2  0.139 -9.000 -9.000 -999.  125.    26.5 0.0650 0.72 0.61 2.10  33.0 15.0 276.0 2.0 0 0.00 98. 1015.  2 NAD-SFC NoSubs
 8  1  1   1  9   14.2  0.146  0.254  0.011   42.  135.    -20.0 0.0960 0.72 0.34 1.50  27.0 15.0 277.8 2.0 0 0.00 84. 1015.  2 NAD-SFC NoSubs
 8  1  1   1 10   54.7  0.166  0.543  0.011  106.  162.    -7.6 0.0960 0.72 0.25 1.50  11.0 15.0 280.9 2.0 0 0.00 64. 1015.  2 NAD-SFC NoSubs
 8  1  1   1 11   83.9  0.220  0.795  0.010  217.  247.    -11.4 0.0960 0.72 0.22 2.10  14.0 15.0 283.1 2.0 0 0.00 53. 1015.  2 NAD-SFC NoSubs
 8  1  1   1 12   99.1 -9.000 -9.000 -9.000  359. -999. -99999.0 0.0471 0.72 0.21 0.00   0.0 15.0 284.5 2.0 0 0.00 50. 1014.  2 NAD-SFC NoSubs
 8  1  1   1 13   99.6  0.260  1.083  0.009  462.  319.    -16.0 0.0960 0.72 0.21 2.60  13.0 15.0 285.8 2.0 0 0.00 48. 1014.  2 NAD-SFC NoSubs
 8  1  1   1 14   85.3  0.330  1.080  0.008  533.  455.    -38.1 0.0960 0.72 0.22 3.60   9.0 15.0 285.8 2.0 0 0.00 51. 1013.  2 NAD-SFC NoSubs
 8  1  1   1 15   56.8  0.285  0.967  0.008  576.  366.    -36.8 0.0960 0.72 0.25 3.10  12.0 15.0 285.2 2.0 0 0.00 57. 1013.  2 NAD-SFC NoSubs
 8  1  1   1 16   17.0  0.265  0.651  0.008  587.  328.    -99.5 0.0960 0.72 0.34 3.10  14.0 15.0 284.6 2.0 0 0.00 60. 1012.  2 NAD-SFC NoSubs
 8  1  1   1 17  -20.0  0.212 -9.000 -9.000 -999.  236.    43.1 0.0650 0.72 0.60 3.10  31.0 15.0 283.8 2.0 0 0.00 62. 1012.  2 NAD-SFC NoSubs
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 8  1  1    1 18  -10.8  0.150 -9.000 -9.000 -999.  141.     28.5  0.0960  0.72  1.00   2.10   27.0  15.0  283.2   2.0     0   0.00    63.  1012.     2 NAD-SFC NoSubs
 8  1  1    1 19   -5.0  0.102 -9.000 -9.000 -999.   78.     19.0  0.0650  0.72  1.00   1.50   44.0  15.0  282.8   2.0     0   0.00    64.  1012.     2 NAD-SFC NoSubs
 8  1  1    1 20   -5.0  0.102 -9.000 -9.000 -999.   78.     19.0  0.0650  0.72  1.00   1.50   37.0  15.0  282.4   2.0     0   0.00    64.  1012.     2 NAD-SFC NoSubs
 8  1  1    1 21   -5.0  0.102 -9.000 -9.000 -999.   78.     19.0  0.0650  0.72  1.00   1.50   40.0  15.0  282.0   2.0     0   0.00    65.  1012.     2 NAD-SFC NoSubs
 8  1  1    1 22   -9.5  0.139 -9.000 -9.000 -999.  124.     25.3  0.0650  0.72  1.00   2.10   42.0  15.0  281.8   2.0     0   0.00    66.  1012.     2 NAD-SFC NoSubs
 8  1  1    1 23  -14.8  0.175 -9.000 -9.000 -999.  175.     32.4  0.0650  0.72  1.00   2.60   40.0  15.0  281.6   2.0     0   0.00    66.  1011.     2 NAD-SFC NoSubs
 8  1  1    1 24  -21.4  0.211 -9.000 -9.000 -999.  233.     39.7  0.0650  0.72  1.00   3.10   30.0  15.0  281.4   2.0     0   0.00    66.  1011.     2 NAD-SFC NoSubs
 8  1  2    2  1  -29.8  0.268 -9.000 -9.000 -999.  333.     58.4  0.0960  0.72  1.00   3.60   26.0  15.0  281.1   2.0     0   0.00    66.  1011.     2 NAD-SFC NoSubs
 8  1  2    2  2  -31.6  0.284 -9.000 -9.000 -999.  363.     65.5  0.0650  0.72  1.00   4.10   32.0  15.0  280.8   2.0     0   0.00    67.  1011.     2 NAD-SFC NoSubs
 8  1  2    2  3  -27.6  0.248 -9.000 -9.000 -999.  296.     49.7  0.0650  0.72  1.00   3.60   32.0  15.0  280.4   2.0     0   0.00    68.  1011.     2 NAD-SFC NoSubs
 8  1  2    2  4  -21.4  0.211 -9.000 -9.000 -999.  233.     39.6  0.0650  0.72  1.00   3.10   40.0  15.0  280.4   2.0     0   0.00    67.  1011.     2 NAD-SFC NoSubs
 8  1  2    2  5  -21.4  0.211 -9.000 -9.000 -999.  233.     39.6  0.0650  0.72  1.00   3.10   36.0  15.0  280.5   2.0     0   0.00    65.  1011.     2 NAD-SFC NoSubs
 8  1  2    2  6  -24.3  0.229 -9.000 -9.000 -999.  263.     44.5  0.0960  0.72  1.00   3.10   27.0  15.0  280.5   2.0     0   0.00    64.  1011.     2 NAD-SFC NoSubs
 8  1  2    2  7  -16.8  0.189 -9.000 -9.000 -999.  198.     36.3  0.0960  0.72  1.00   2.60   29.0  15.0  280.4   2.0     0   0.00    63.  1011.     2 NAD-SFC NoSubs
 8  1  2    2  8  -16.1  0.190 -9.000 -9.000 -999.  199.     38.5  0.0960  0.72  0.61   2.60   16.0  15.0  280.2   2.0     0   0.00    62.  1011.     2 NAD-SFC NoSubs
 8  1  2    2  9   14.8  0.227  0.264  0.009   45.  260.    -71.5  0.0960  0.72  0.34   2.60   20.0  15.0  281.2   2.0     0   0.00    58.  1011.     2 NAD-SFC NoSubs
 8  1  2    2 10   55.5  0.248  0.543  0.008  104.  297.    -24.8  0.0960  0.72  0.25   2.60   11.0  15.0  284.5   2.0     0   0.00    43.  1011.     2 NAD-SFC NoSubs
 8  1  2    2 11   84.7  0.257  0.776  0.008  198.  312.    -18.0  0.0960  0.72  0.22   2.60    5.0  15.0  285.8   2.0     0   0.00    42.  1010.     2 NAD-SFC NoSubs
 8  1  2    2 12  100.1  0.297  0.966  0.008  325.  388.    -23.6  0.0950  0.72  0.21   3.10  351.0  15.0  287.1   2.0     0   0.00    42.  1009.     2 NAD-SFC NoSubs
 8  1  2    2 13  100.7  0.297  1.066  0.008  433.  389.    -23.4  0.0950  0.72  0.21   3.10  339.0  15.0  288.0   2.0     0   0.00    42.  1008.     2 NAD-SFC NoSubs
 8  1  2    2 14   86.3  0.330  1.084  0.007  530.  454.    -37.3  0.0950  0.72  0.22   3.60  337.0  15.0  287.8   2.0     0   0.00    49.  1008.     2 NAD-SFC NoSubs
 8  1  2    2 15   57.9  0.321  0.981  0.007  586.  437.    -51.4  0.0950  0.72  0.25   3.60  350.0  15.0  287.0   2.0     0   0.00    55.  1008.     2 NAD-SFC NoSubs
 8  1  2    2 16   18.0  0.302  0.670  0.007  601.  399.   -138.2  0.0950  0.72  0.34   3.60  354.0  15.0  286.2   2.0     0   0.00    59.  1007.     2 NAD-SFC NoSubs
 8  1  2    2 17   -3.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.59   0.00    0.0  15.0  285.8   2.0     0   0.00    61.  1007.     2 NAD-SFC NoSubs
 8  1  2    2 18  -24.0  0.229 -9.000 -9.000 -999.  263.     44.9  0.0960  0.72  1.00   3.10    1.0  15.0  285.4   2.0     0   0.00    62.  1007.     2 NAD-SFC NoSubs
 8  1  2    2 19  -16.6  0.189 -9.000 -9.000 -999.  198.     36.5  0.0950  0.72  1.00   2.60  342.0  15.0  285.1   2.0     0   0.00    63.  1008.     2 NAD-SFC NoSubs
 8  1  2    2 20  -16.6  0.189 -9.000 -9.000 -999.  197.     36.5  0.0950  0.72  1.00   2.60  355.0  15.0  284.8   2.0     0   0.00    64.  1008.     2 NAD-SFC NoSubs
 8  1  2    2 21  -16.6  0.189 -9.000 -9.000 -999.  197.     36.5  0.0950  0.72  1.00   2.60  354.0  15.0  284.5   2.0     0   0.00    64.  1008.     2 NAD-SFC NoSubs
 8  1  2    2 22  -16.6  0.189 -9.000 -9.000 -999.  197.     36.5  0.0950  0.72  1.00   2.60  355.0  15.0  284.2   2.0     0   0.00    63.  1008.     2 NAD-SFC NoSubs
 8  1  2    2 23  -16.6  0.189 -9.000 -9.000 -999.  197.     36.5  0.0950  0.72  1.00   2.60  337.0  15.0  284.1   2.0     0   0.00    63.  1008.     2 NAD-SFC NoSubs
 8  1  2    2 24  -16.6  0.189 -9.000 -9.000 -999.  197.     36.4  0.0950  0.72  1.00   2.60  348.0  15.0  283.9   2.0     0   0.00    62.  1008.     2 NAD-SFC NoSubs
 8  1  3    3  1  -10.7  0.150 -9.000 -9.000 -999.  140.     28.4  0.0950  0.72  1.00   2.10  360.0  15.0  283.9   2.0     0   0.00    61.  1008.     2 NAD-SFC NoSubs
 8  1  3    3  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  283.8   2.0     0   0.00    60.  1008.     2 NAD-SFC NoSubs
 8  1  3    3  3   -5.5  0.109 -9.000 -9.000 -999.   86.     20.8  0.0960  0.72  1.00   1.50    4.0  15.0  283.6   2.0     0   0.00    60.  1007.     2 NAD-SFC NoSubs
 8  1  3    3  4   -5.4  0.108 -9.000 -9.000 -999.   85.     20.9  0.0950  0.72  1.00   1.50  350.0  15.0  283.5   2.0     0   0.00    60.  1007.     3 NAD-SFC NoSubs
 8  1  3    3  5   -5.4  0.108 -9.000 -9.000 -999.   85.     20.9  0.0950  0.72  1.00   1.50  347.0  15.0  283.4   2.0     0   0.00    61.  1007.     3 NAD-SFC NoSubs
 8  1  3    3  6   -5.4  0.108 -9.000 -9.000 -999.   85.     20.9  0.0950  0.72  1.00   1.50  339.0  15.0  283.2   2.0     0   0.00    62.  1007.     3 NAD-SFC NoSubs
 8  1  3    3  7   -5.4  0.108 -9.000 -9.000 -999.   85.     20.9  0.0950  0.72  1.00   1.50  336.0  15.0  283.2   2.0     0   0.00    63.  1007.     3 NAD-SFC NoSubs
 8  1  3    3  8   -4.8  0.104 -9.000 -9.000 -999.   80.     20.8  0.0800  0.72  0.61   1.50  329.0  15.0  283.2   2.0     0   0.00    63.  1007.     3 NAD-SFC NoSubs
 8  1  3    3  9   16.8  0.144  0.307  0.007   62.  131.    -15.9  0.0800  0.72  0.34   1.50  318.0  15.0  283.4   2.0     0   0.00    63.  1007.     3 NAD-SFC NoSubs
 8  1  3    3 10   56.7  0.241  0.651  0.006  175.  284.    -22.1  0.0800  0.72  0.25   2.60  314.0  15.0  283.9   2.0     0   0.00    63.  1007.     3 NAD-SFC NoSubs
 8  1  3    3 11   85.7  0.285  0.928  0.006  335.  364.    -24.2  0.0800  0.72  0.22   3.10  322.0  15.0  284.8   2.0     0   0.00    62.  1007.     3 NAD-SFC NoSubs
 8  1  3    3 12  100.8  0.358  1.119  0.005  499.  515.    -41.0  0.0800  0.72  0.21   4.10  318.0  15.0  285.8   2.0     0   0.00    57.  1007.     3 NAD-SFC NoSubs
 8  1  3    3 13  100.7  0.406  1.213  0.005  637.  620.    -59.5  0.0950  0.72  0.21   4.60  331.0  15.0  285.6   2.0     0   0.00    61.  1006.     4 NAD-SFC NoSubs
 8  1  3    3 14   86.7  0.366  1.208  0.005  729.  533.    -50.7  0.0950  0.72  0.22   4.10  352.0  15.0  284.9   2.0     0   0.25    75.  1006.     4 NAD-SFC NoSubs
 8  1  3    3 15   59.3  0.286  1.090  0.005  785.  371.    -35.4  0.0960  0.72  0.25   3.10   27.0  15.0  284.2   2.0     0   0.76    86.  1006.     4 NAD-SFC NoSubs
 8  1  3    3 16   21.1  0.263  0.779  0.005  804.  324.    -77.4  0.0400  0.72  0.33   3.60   60.0  15.0  284.0   2.0     0   0.76    90.  1006.     5 NAD-SFC NoSubs
 8  1  3    3 17  -12.1  0.197 -9.000 -9.000 -999.  211.     56.1  0.0400  0.72  0.59   3.10   69.0  15.0  283.9   2.0     0   0.51    93.  1006.     8 NAD-SFC NoSubs
 8  1  3    3 18  -11.0  0.197 -9.000 -9.000 -999.  210.     62.4  0.0400  0.72  1.00   3.10   81.0  15.0  284.0   2.0     0   0.51    93.  1006.    10 NAD-SFC NoSubs
 8  1  3    3 19  -11.0  0.197 -9.000 -9.000 -999.  210.     62.5  0.0400  0.72  1.00   3.10   87.0  15.0  284.2   2.0     0   0.25    92.  1006.    10 NAD-SFC NoSubs
 8  1  3    3 20  -14.8  0.195 -9.000 -9.000 -999.  207.     45.3  0.0400  0.72  1.00   3.10   88.0  15.0  284.5   2.0     0   0.00    90.  1006.     8 NAD-SFC NoSubs
 8  1  3    3 21  -11.0  0.154 -9.000 -9.000 -999.  145.     29.6  0.0310  0.72  1.00   2.60  107.0  15.0  284.9   2.0     0   0.00    87.  1006.     6 NAD-SFC NoSubs
 8  1  3    3 22   -3.5  0.088 -9.000 -9.000 -999.   64.     17.5  0.0310  0.72  1.00   1.50  119.0  15.0  285.2   2.0     0   0.00    84.  1006.     7 NAD-SFC NoSubs
 8  1  3    3 23   -0.8  0.059 -9.000 -9.000 -999.   35.     24.1  0.0280  0.72  1.00   0.50  141.0  15.0  285.4   2.0     0   0.00    82.  1006.     7 NAD-SFC NoSubs
 8  1  3    3 24   -0.8  0.059 -9.000 -9.000 -999.   35.     24.1  0.0280  0.72  1.00   0.50  137.0  15.0  285.2   2.0     0   0.00    83.  1005.     7 NAD-SFC NoSubs
 8  1  4    4  1   -3.5  0.088 -9.000 -9.000 -999.   63.     17.5  0.0310  0.72  1.00   1.50  106.0  15.0  285.2   2.0     0   0.00    84.  1005.     7 NAD-SFC NoSubs
 8  1  4    4  2  -15.8  0.186 -9.000 -9.000 -999.  192.     36.3  0.0310  0.72  1.00   3.10  116.0  15.0  285.4   2.0     0   0.00    83.  1004.     6 NAD-SFC NoSubs
 8  1  4    4  3  -23.7  0.245 -9.000 -9.000 -999.  291.     55.6  0.0280  0.72  1.00   4.10  128.0  15.0  285.6   2.0     0   0.00    82.  1003.     5 NAD-SFC NoSubs
 8  1  4    4  4  -23.7  0.245 -9.000 -9.000 -999.  291.     55.6  0.0280  0.72  1.00   4.10  129.0  15.0  285.8   2.0     0   0.00    80.  1003.     5 NAD-SFC NoSubs
 8  1  4    4  5  -31.2  0.308 -9.000 -9.000 -999.  409.     83.3  0.0280  0.72  1.00   5.10  141.0  15.0  285.8   2.0     0   0.00    80.  1002.     4 NAD-SFC NoSubs
 8  1  4    4  6  -38.2  0.377 -9.000 -9.000 -999.  555.    125.1  0.0280  0.72  1.00   6.20  142.0  15.0  286.0   2.0     0   0.00    79.  1001.     4 NAD-SFC NoSubs
 8  1  4    4  7  -38.1  0.377 -9.000 -9.000 -999.  555.    125.2  0.0280  0.72  1.00   6.20  136.0  15.0  286.2   2.0     0   0.00    78.  1000.     4 NAD-SFC NoSubs
 8  1  4    4  8  -33.5  0.378 -9.000 -9.000 -999.  558.    143.6  0.0280  0.72  0.62   6.20  138.0  15.0  286.5   2.0     0   0.00    77.  1000.     4 NAD-SFC NoSubs
 8  1  4    4  9   18.8  0.374  0.339  0.005   74.  549.   -248.0  0.0280  0.72  0.34   5.70  136.0  15.0  286.8   2.0     0   0.00    76.  1000.     4 NAD-SFC NoSubs
 8  1  4    4 10   58.0  0.388  0.841  0.005  365.  580.    -89.8  0.0280  0.72  0.25   5.70  137.0  15.0  287.1   2.0     0   0.00    75.   999.     4 NAD-SFC NoSubs
 8  1  4    4 11   86.4  0.425  1.171  0.005  662.  664.    -79.0  0.0280  0.72  0.22   6.20  137.0  15.0  287.8   2.0     0   0.00    74.   999.     4 NAD-SFC NoSubs
 8  1  4    4 12   98.5  0.457  1.305  0.005  803.  741.    -86.2  0.0280  0.72  0.21   6.70  133.0  15.0  288.0   2.0     0   0.00    74.   997.     5 NAD-SFC NoSubs
 8  1  4    4 13   98.9  0.487  1.368  0.005  922.  815.   -103.8  0.0280  0.72  0.21   7.20  135.0  15.0  287.8   2.0     0   0.25    77.   997.     5 NAD-SFC NoSubs
 8  1  4    4 14   85.8  0.455  1.346  0.005 1010.  737.    -97.3  0.0280  0.72  0.22   6.70  132.0  15.0  287.6   2.0     0   0.25    79.   996.     5 NAD-SFC NoSubs
 8  1  4    4 15   56.4  0.418  1.190  0.005 1061.  649.   -114.7  0.0280  0.72  0.25   6.20  131.0  15.0  287.5   2.0     0   0.25    81.   996.     6 NAD-SFC NoSubs
 8  1  4    4 16   21.9  0.376  0.873  0.005 1080.  554.   -214.9  0.0280  0.72  0.33   5.70  130.0  15.0  287.5   2.0     0   0.25    82.   995.     6 NAD-SFC NoSubs
 8  1  4    4 17  -23.2  0.309 -9.000 -9.000 -999.  416.    113.4  0.0280  0.72  0.58   5.10  133.0  15.0  287.6   2.0     0   0.25    83.   995.     5 NAD-SFC NoSubs
 8  1  4    4 18  -30.8  0.308 -9.000 -9.000 -999.  410.     83.9  0.0280  0.72  1.00   5.10  149.0  15.0  287.8   2.0     0   0.00    83.   996.     4 NAD-SFC NoSubs
 8  1  4    4 19  -27.0  0.269 -9.000 -9.000 -999.  336.     64.4  0.0240  0.72  1.00   4.60  167.0  15.0  288.0   2.0     0   0.00    83.   996.     4 NAD-SFC NoSubs
 8  1  4    4 20  -26.6  0.266 -9.000 -9.000 -999.  329.     62.7  0.0220  0.72  1.00   4.60  189.0  15.0  288.1   2.0     0   0.00    84.   997.     4 NAD-SFC NoSubs
 8  1  4    4 21  -26.7  0.266 -9.000 -9.000 -999.  329.     62.6  0.0220  0.72  1.00   4.60  237.0  15.0  287.9   2.0     0   1.02    87.   998.     4 NAD-SFC NoSubs
 8  1  4    4 22  -31.4  0.328 -9.000 -9.000 -999.  450.     99.8  0.0200  0.72  1.00   5.70  269.0  15.0  287.2   2.0     0   1.78    94.   999.     5 NAD-SFC NoSubs
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 8  1  4   4 23  -27.5  0.262 -9.000 -9.000 -999.  324.     58.5  0.0420  0.72  1.00   4.10  272.0  15.0  286.8   2.0    0   0.51   96.  1000.     3 NAD-SFC NoSubs
 8  1  4   4 24   -8.2  0.128 -9.000 -9.000 -999.  123.     23.0  0.0420  0.72  1.00   2.10  278.0  15.0  286.4   2.0    0   0.00   96.  1001.     3 NAD-SFC NoSubs
 8  1  5   5  1   -3.7  0.087 -9.000 -9.000 -999.   61.     15.5  0.0220  0.72  1.00   1.50  225.0  15.0  285.9   2.0    0   0.00   96.  1001.     3 NAD-SFC NoSubs
 8  1  5   5  2  -10.8  0.144 -9.000 -9.000 -999.  131.     24.9  0.0220  0.72  1.00   2.60  214.0  15.0  285.5   2.0    0   0.00   95.  1001.     3 NAD-SFC NoSubs
 8  1  5   5  3  -15.6  0.175 -9.000 -9.000 -999.  175.     30.5  0.0220  0.72  1.00   3.10  217.0  15.0  285.2   2.0    0   0.00   93.  1001.     3 NAD-SFC NoSubs
 8  1  5   5  4  -15.6  0.175 -9.000 -9.000 -999.  175.     30.5  0.0220  0.72  1.00   3.10  220.0  15.0  285.0   2.0    0   0.00   91.  1001.     3 NAD-SFC NoSubs
 8  1  5   5  5  -15.6  0.175 -9.000 -9.000 -999.  175.     30.5  0.0220  0.72  1.00   3.10  212.0  15.0  284.8   2.0    0   0.00   89.  1001.     3 NAD-SFC NoSubs
 8  1  5   5  6  -15.6  0.175 -9.000 -9.000 -999.  175.     30.5  0.0220  0.72  1.00   3.10  205.0  15.0  284.6   2.0    0   0.00   86.  1002.     3 NAD-SFC NoSubs
 8  1  5   5  7  -10.8  0.144 -9.000 -9.000 -999.  132.     24.8  0.0220  0.72  1.00   2.60  202.0  15.0  284.4   2.0    0   0.00   85.  1002.     3 NAD-SFC NoSubs
 8  1  5   5  8  -10.3  0.145 -9.000 -9.000 -999.  132.     26.5  0.0220  0.72  0.62   2.60  195.0  15.0  284.2   2.0    0   0.00   83.  1003.     3 NAD-SFC NoSubs
 8  1  5   5  9   17.1  0.119  0.345  0.005   85.   98.     -8.8  0.0240  0.72  0.34   1.50  169.0  15.0  284.4   2.0    0   0.00   80.  1003.     3 NAD-SFC NoSubs
 8  1  5   5 10   57.3  0.136  0.817  0.005  340.  120.     -3.9  0.0280  0.72  0.25   1.50  138.0  15.0  285.0   2.0    0   0.00   77.  1003.     3 NAD-SFC NoSubs
 8  1  5   5 11   86.5  0.203  1.212  0.005  736.  219.     -8.6  0.0220  0.72  0.22   2.60  218.0  15.0  287.1   2.0    0   0.00   63.  1003.     4 NAD-SFC NoSubs
 8  1  5   5 12  101.7  0.176  1.384  0.005  932.  177.     -4.8  0.0220  0.72  0.21   2.10  229.0  15.0  288.4   2.0    0   0.00   53.  1002.     4 NAD-SFC NoSubs
 8  1  5   5 13  102.6  0.176  1.469  0.005 1103.  177.     -4.8  0.0220  0.72  0.21   2.10  218.0  15.0  289.2   2.0    0   0.00   48.  1001.     4 NAD-SFC NoSubs
 8  1  5   5 14   89.1  0.085  1.455  0.005 1234.   63.     -1.0  0.0800  0.72  0.22   0.50  300.0  15.0  289.2   2.0    0   0.00   49.  1000.     4 NAD-SFC NoSubs
 8  1  5   5 15   61.9  0.145  1.317  0.005 1317.  132.     -4.4  0.0400  0.72  0.25   1.50   75.0  15.0  289.1   2.0    0   0.00   53.   999.     4 NAD-SFC NoSubs
 8  1  5   5 16   23.0  0.170  0.953  0.005 1342.  169.    -19.1  0.0400  0.72  0.33   2.10   78.0  15.0  287.8   2.0    0   0.00   59.   999.     4 NAD-SFC NoSubs
 8  1  5   5 17  -13.8  0.187 -9.000 -9.000 -999.  194.     42.2  0.0310  0.72  0.58   3.10   99.0  15.0  287.2   2.0    0   0.00   63.   999.     5 NAD-SFC NoSubs
 8  1  5   5 18  -16.6  0.185 -9.000 -9.000 -999.  191.     34.1  0.0310  0.72  1.00   3.10  116.0  15.0  286.6   2.0    0   0.00   68.   999.     4 NAD-SFC NoSubs
 8  1  5   5 19  -16.2  0.182 -9.000 -9.000 -999.  186.     33.2  0.0280  0.72  1.00   3.10  127.0  15.0  286.2   2.0    0   0.00   71.   999.     4 NAD-SFC NoSubs
 8  1  5   5 20  -16.2  0.182 -9.000 -9.000 -999.  186.     33.1  0.0280  0.72  1.00   3.10  137.0  15.0  285.8   2.0    0   0.00   74.  1000.     4 NAD-SFC NoSubs
 8  1  5   5 21  -16.2  0.182 -9.000 -9.000 -999.  186.     33.1  0.0280  0.72  1.00   3.10  142.0  15.0  285.6   2.0    0   0.00   75.  1000.     4 NAD-SFC NoSubs
 8  1  5   5 22  -16.2  0.182 -9.000 -9.000 -999.  186.     33.1  0.0280  0.72  1.00   3.10  140.0  15.0  285.5   2.0    0   0.00   75.  1000.     4 NAD-SFC NoSubs
 8  1  5   5 23   -7.0  0.117 -9.000 -9.000 -999.   97.     20.4  0.0240  0.72  1.00   2.10  158.0  15.0  285.4   2.0    0   0.00   75.  1000.     4 NAD-SFC NoSubs
 8  1  5   5 24   -3.7  0.087 -9.000 -9.000 -999.   61.     15.5  0.0220  0.72  1.00   1.50  222.0  15.0  285.2   2.0    0   0.25   76.  1000.     3 NAD-SFC NoSubs
 8  1  6   6  1  -15.2  0.172 -9.000 -9.000 -999.  171.     29.8  0.0200  0.72  1.00   3.10  266.0  15.0  284.8   2.0    0   0.25   79.  1001.     3 NAD-SFC NoSubs
 8  1  6   6  2  -31.4  0.296 -9.000 -9.000 -999.  386.     73.7  0.0420  0.72  1.00   4.60  273.0  15.0  284.0   2.0    0   0.00   87.  1002.     3 NAD-SFC NoSubs
 8  1  6   6  3  -27.9  0.262 -9.000 -9.000 -999.  323.     57.8  0.0420  0.72  1.00   4.10  275.0  15.0  283.5   2.0    0   0.00   91.  1002.     3 NAD-SFC NoSubs
 8  1  6   6  4  -24.4  0.229 -9.000 -9.000 -999.  263.     43.8  0.0420  0.72  1.00   3.60  273.0  15.0  282.8   2.0    0   0.00   93.  1003.     3 NAD-SFC NoSubs
 8  1  6   6  5  -18.5  0.195 -9.000 -9.000 -999.  207.     35.7  0.0420  0.72  1.00   3.10  272.0  15.0  282.1   2.0    0   0.00   95.  1003.     3 NAD-SFC NoSubs
 8  1  6   6  6  -10.6  0.142 -9.000 -9.000 -999.  129.     24.1  0.0200  0.72  1.00   2.60  256.0  15.0  281.6   2.0    0   0.00   97.  1004.     3 NAD-SFC NoSubs
 8  1  6   6  7   -6.7  0.113 -9.000 -9.000 -999.   92.     19.4  0.0200  0.72  1.00   2.10  248.0  15.0  281.1   2.0    0   0.00   98.  1004.     4 NAD-SFC NoSubs
 8  1  6   6  8   -0.8  0.060 -9.000 -9.000 -999.   36.     24.2  0.0200  0.72  0.62   0.50  262.0  15.0  281.1   2.0    0   0.00   96.  1004.     4 NAD-SFC NoSubs
 8  1  6   6  9   17.9  0.108  0.394  0.005  122.   86.     -6.4  0.0800  0.72  0.34   1.00  328.0  15.0  282.2   2.0    0   0.00   88.  1005.     4 NAD-SFC NoSubs
 8  1  6   6 10   57.5  0.167  0.813  0.005  335.  163.     -7.2  0.0950  0.72  0.25   1.50  338.0  15.0  283.8   2.0    0   0.00   77.  1005.     4 NAD-SFC NoSubs
 8  1  6   6 11   86.2  0.174  1.068  0.005  507.  175.     -5.5  0.0950  0.72  0.22   1.50  355.0  15.0  284.8   2.0    0   0.00   69.  1005.     4 NAD-SFC NoSubs
 8  1  6   6 12   98.5 -9.000 -9.000 -9.000  652. -999. -99999.0  0.0471  0.72  0.21   0.00    0.0  15.0  285.4   2.0    0   0.00   62.  1004.     5 NAD-SFC NoSubs
 8  1  6   6 13   69.4  0.066  1.181  0.005  849.   41.     -1.0  0.0240  0.72  0.21   0.50  171.0  15.0  285.8   2.0    0   0.00   60.  1003.     8 NAD-SFC NoSubs
 8  1  6   6 14   18.8  0.153  0.778  0.005  895.  144.    -17.2  0.0220  0.72  0.22   2.10  185.0  15.0  285.5   2.0    0   0.00   63.  1003.    10 NAD-SFC NoSubs
 8  1  6   6 15   51.0  0.224  1.125  0.005  997.  254.    -19.6  0.0220  0.72  0.25   3.10  182.0  15.0  284.9   2.0    0   0.00   70.  1002.     7 NAD-SFC NoSubs
 8  1  6   6 16   16.1  0.211  0.772  0.005 1019.  233.    -52.5  0.0240  0.72  0.33   3.10  172.0  15.0  284.5   2.0    0   0.00   79.  1002.     8 NAD-SFC NoSubs
 8  1  6   6 17   -7.5  0.151 -9.000 -9.000 -999.  141.     40.8  0.0240  0.72  0.57   2.60  172.0  15.0  284.0   2.0    0   0.00   84.  1001.    10 NAD-SFC NoSubs
 8  1  6   6 18   -8.2  0.150 -9.000 -9.000 -999.  140.     36.8  0.0240  0.72  1.00   2.60  175.0  15.0  283.8   2.0    0   0.00   87.  1002.    10 NAD-SFC NoSubs
 8  1  6   6 19   -5.3  0.119 -9.000 -9.000 -999.   99.     28.8  0.0240  0.72  1.00   2.10  158.0  15.0  283.6   2.0    0   0.00   87.  1002.    10 NAD-SFC NoSubs
 8  1  6   6 20   -2.7  0.085 -9.000 -9.000 -999.   60.     20.4  0.0280  0.72  1.00   1.50  141.0  15.0  283.4   2.0    0   0.25   87.  1002.    10 NAD-SFC NoSubs
 8  1  6   6 21   -2.7  0.085 -9.000 -9.000 -999.   60.     20.4  0.0280  0.72  1.00   1.50  122.0  15.0  283.2   2.0    0   0.25   88.  1002.    10 NAD-SFC NoSubs
 8  1  6   6 22   -5.6  0.124 -9.000 -9.000 -999.  105.     30.6  0.0310  0.72  1.00   2.10  106.0  15.0  283.0   2.0    0   0.25   88.  1001.    10 NAD-SFC NoSubs
 8  1  6   6 23   -5.6  0.124 -9.000 -9.000 -999.  105.     30.6  0.0310  0.72  1.00   2.10  102.0  15.0  282.9   2.0    0   0.00   88.  1001.    10 NAD-SFC NoSubs
 8  1  6   6 24   -3.0  0.091 -9.000 -9.000 -999.   66.     22.2  0.0400  0.72  1.00   1.50   86.0  15.0  282.8   2.0    0   0.00   87.  1001.    10 NAD-SFC NoSubs
 8  1  7   7  1   -3.4  0.099 -9.000 -9.000 -999.   75.     25.3  0.0650  0.72  1.00   1.50   58.0  15.0  282.8   2.0    0   0.00   87.  1001.    10 NAD-SFC NoSubs
 8  1  7   7  2   -3.9  0.107 -9.000 -9.000 -999.   84.     28.4  0.0960  0.72  1.00   1.50   23.0  15.0  282.6   2.0    0   0.00   88.  1001.    10 NAD-SFC NoSubs
 8  1  7   7  3   -3.9  0.107 -9.000 -9.000 -999.   84.     28.3  0.0950  0.72  1.00   1.50  350.0  15.0  282.4   2.0    0   0.25   91.  1002.    10 NAD-SFC NoSubs
 8  1  7   7  4   -1.7  0.071 -9.000 -9.000 -999.   46.     19.3  0.0800  0.72  1.00   1.00  325.0  15.0  282.2   2.0    0   0.00   93.  1002.    10 NAD-SFC NoSubs
 8  1  7   7  5  -13.3  0.185 -9.000 -9.000 -999.  191.     42.6  0.0800  0.72  1.00   2.60  303.0  15.0  282.1   2.0    0   0.25   96.  1002.     8 NAD-SFC NoSubs
 8  1  7   7  6  -25.6  0.336 -9.000 -9.000 -999.  468.    132.7  0.0800  0.72  1.00   4.60  306.0  15.0  281.8   2.0    0   0.25   97.  1003.     8 NAD-SFC NoSubs
 8  1  7   7  7  -26.0  0.462 -9.000 -9.000 -999.  753.    340.5  0.0800  0.72  1.00   6.20  329.0  15.0  281.5   2.0    0   0.00   91.  1005.    10 NAD-SFC NoSubs
 8  1  7   7  8  -27.8  0.519 -9.000 -9.000 -999.  898.    452.4  0.0950  0.72  0.62   6.70  334.0  15.0  280.8   2.0    0   0.00   79.  1006.    10 NAD-SFC NoSubs
 8  1  7   7  9   -0.9  0.532 -9.000 -9.000 -999.  932.   8888.0  0.0950  0.72  0.34   6.70  340.0  15.0  281.1   2.0    0   0.00   69.  1007.    10 NAD-SFC NoSubs
 8  1  7   7 10   47.7  0.509  0.811  0.005  402.  873.   -248.7  0.0950  0.72  0.25   6.20  344.0  15.0  281.9   2.0    0   0.00   62.  1008.     7 NAD-SFC NoSubs
 8  1  7   7 11   86.0  0.483  1.108  0.005  569.  806.   -117.4  0.0950  0.72  0.22   5.70  343.0  15.0  282.8   2.0    0   0.00   58.  1008.     4 NAD-SFC NoSubs
 8  1  7   7 12  101.2  0.486  1.255  0.005  703.  814.   -102.1  0.0950  0.72  0.21   5.70  342.0  15.0  283.2   2.0    0   0.00   55.  1008.     4 NAD-SFC NoSubs
 8  1  7   7 13  102.8  0.443  1.317  0.005  799.  709.    -75.8  0.0950  0.72  0.21   5.10  341.0  15.0  283.8   2.0    0   0.00   54.  1008.     3 NAD-SFC NoSubs
 8  1  7   7 14   89.2  0.403  1.295  0.005  875.  615.    -65.9  0.0950  0.72  0.22   4.60  336.0  15.0  284.1   2.0    0   0.00   52.  1008.     3 NAD-SFC NoSubs
 8  1  7   7 15   61.7  0.359  1.165  0.005  924.  517.    -67.2  0.0950  0.72  0.24   4.10  337.0  15.0  284.2   2.0    0   0.00   51.  1008.     3 NAD-SFC NoSubs
 8  1  7   7 16   22.3  0.269  0.836  0.005  940.  338.    -77.9  0.0950  0.72  0.33   3.10  335.0  15.0  283.9   2.0    0   0.00   58.  1008.     3 NAD-SFC NoSubs
 8  1  7   7 17  -22.7  0.269 -9.000 -9.000 -999.  336.     77.4  0.0950  0.72  0.56   3.60  334.0  15.0  282.9   2.0    0   0.00   64.  1009.     3 NAD-SFC NoSubs
 8  1  7   7 18  -28.8  0.268 -9.000 -9.000 -999.  333.     59.9  0.0950  0.72  1.00   3.60  334.0  15.0  281.8   2.0    0   0.00   69.  1009.     3 NAD-SFC NoSubs
 8  1  7   7 19  -23.8  0.229 -9.000 -9.000 -999.  263.     45.1  0.0950  0.72  1.00   3.10  341.0  15.0  281.2   2.0    0   0.00   71.  1010.     3 NAD-SFC NoSubs
 8  1  7   7 20  -10.6  0.150 -9.000 -9.000 -999.  141.     28.6  0.0950  0.72  1.00   2.10  352.0  15.0  280.6   2.0    0   0.00   73.  1011.     3 NAD-SFC NoSubs
 8  1  7   7 21   -3.0  0.087 -9.000 -9.000 -999.   63.     20.0  0.0960  0.72  1.00   1.00    8.0  15.0  279.9   2.0    0   0.00   76.  1012.     2 NAD-SFC NoSubs
 8  1  7   7 22   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0400  0.72  1.00   0.50   72.0  15.0  279.2   2.0    0   0.00   80.  1012.     2 NAD-SFC NoSubs
 8  1  7   7 23   -1.0  0.068 -9.000 -9.000 -999.   42.     27.0  0.0310  0.72  1.00   0.50  101.0  15.0  278.4   2.0    0   0.00   85.  1013.     2 NAD-SFC NoSubs
 8  1  7   7 24   -1.0  0.068 -9.000 -9.000 -999.   42.     27.0  0.0310  0.72  1.00   0.50  115.0  15.0  277.8   2.0    0   0.00   88.  1013.     2 NAD-SFC NoSubs
 8  1  8   8  1   -2.4  0.077 -9.000 -9.000 -999.   51.     17.5  0.0310  0.72  1.00   1.00  119.0  15.0  277.1   2.0    0   0.00   90.  1013.     2 NAD-SFC NoSubs
 8  1  8   8  2   -7.7  0.120 -9.000 -9.000 -999.   99.     20.1  0.0280  0.72  1.00   2.10  141.0  15.0  276.8   2.0    0   0.00   91.  1013.     2 NAD-SFC NoSubs
 8  1  8   8  3  -11.9  0.150 -9.000 -9.000 -999.  139.     25.5  0.0280  0.72  1.00   2.60  148.0  15.0  276.6   2.0    0   0.00   92.  1013.     2 NAD-SFC NoSubs
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 8  1  8  8  4   -4.0  0.088 -9.000 -9.000 -999.   64.     15.6  0.0240  0.72  1.00  1.50  155.0  15.0  276.2  2.0   0  0.00   92.  1012.    2 NAD-SFC NoSubs
 8  1  8  8  5   -1.0  0.067 -9.000 -9.000 -999.   42.     26.8  0.0280  0.72  1.00  0.50  137.0  15.0  276.0  2.0   0  0.00   94.  1012.    2 NAD-SFC NoSubs
 8  1  8  8  6   -1.0  0.067 -9.000 -9.000 -999.   42.     26.9  0.0280  0.72  1.00  0.50  125.0  15.0  275.9  2.0   0  0.00   93.  1012.    2 NAD-SFC NoSubs
 8  1  8  8  7   -1.1  0.070 -9.000 -9.000 -999.   44.     27.7  0.0400  0.72  1.00  0.50   85.0  15.0  276.1  2.0   0  0.00   92.  1012.    2 NAD-SFC NoSubs
 8  1  8  8  8   -1.0  0.067 -9.000 -9.000 -999.   41.     26.7  0.0400  0.72  0.61  0.50   71.0  15.0  276.2  2.0   0  0.00   92.  1012.    2 NAD-SFC NoSubs
 8  1  8  8  9   14.5  0.094  0.287  0.008   59.   70.     -5.2  0.0400  0.72  0.34  1.00   60.0  15.0  276.9  2.0   0  0.00   89.  1013.    2 NAD-SFC NoSubs
 8  1  8  8 10   55.4  0.077  0.671  0.006  197.   51.     -1.0  0.0650  0.72  0.25  0.50   40.0  15.0  278.4  2.0   0  0.00   82.  1013.    2 NAD-SFC NoSubs
 8  1  8  8 11   85.2  0.134  0.983  0.009  403.  117.     -2.5  0.0960  0.72  0.22  1.00   19.0  15.0  279.8  2.0   0  0.00   75.  1013.    2 NAD-SFC NoSubs
 8  1  8  8 12  100.9  0.136  1.150  0.010  545.  121.     -2.3  0.0960  0.72  0.21  1.00   27.0  15.0  280.5  2.0   0  0.00   72.  1013.    2 NAD-SFC NoSubs
 8  1  8  8 13  102.8  0.127  1.233  0.012  658.  109.     -1.8  0.0650  0.72  0.21  1.00   49.0  15.0  281.1  2.0   0  0.00   68.  1013.    3 NAD-SFC NoSubs
 8  1  8  8 14   89.3  0.150  1.204  0.012  706.  140.     -3.4  0.0400  0.72  0.21  1.50   74.0  15.0  281.2  2.0   0  0.00   69.  1012.    3 NAD-SFC NoSubs
 8  1  8  8 15   62.0  0.139  1.081  0.013  737.  124.     -3.9  0.0310  0.72  0.24  1.50   92.0  15.0  281.2  2.0   0  0.00   73.  1012.    4 NAD-SFC NoSubs
 8  1  8  8 16   23.7  0.164  0.790  0.013  748.  159.    -16.7  0.0310  0.72  0.32  2.10  119.0  15.0  281.0  2.0   0  0.00   76.  1011.    5 NAD-SFC NoSubs
 8  1  8  8 17   -5.3  0.123 -9.000 -9.000 -999.  104.     31.8  0.0280  0.72  0.56  2.10  128.0  15.0  280.8  2.0   0  0.00   79.  1011.   10 NAD-SFC NoSubs
 8  1  8  8 18   -5.7  0.124 -9.000 -9.000 -999.  105.     30.5  0.0310  0.72  1.00  2.10  110.0  15.0  280.5  2.0   0  0.00   79.  1011.   10 NAD-SFC NoSubs
 8  1  8  8 19   -5.7  0.124 -9.000 -9.000 -999.  105.     30.5  0.0310  0.72  1.00  2.10   93.0  15.0  280.5  2.0   0  0.00   78.  1012.   10 NAD-SFC NoSubs
 8  1  8  8 20   -2.8  0.087 -9.000 -9.000 -999.   62.     20.8  0.0310  0.72  1.00  1.50   92.0  15.0  280.8  2.0   0  0.00   77.  1012.   10 NAD-SFC NoSubs
 8  1  8  8 21   -2.8  0.085 -9.000 -9.000 -999.   60.     20.3  0.0280  0.72  1.00  1.50  123.0  15.0  280.9  2.0   0  0.00   77.  1013.   10 NAD-SFC NoSubs
 8  1  8  8 22   -1.8  0.068 -9.000 -9.000 -999.   42.     15.9  0.0220  0.72  1.00  1.00  198.0  15.0  281.0  2.0   0  0.00   76.  1013.    7 NAD-SFC NoSubs
 8  1  8  8 23   -3.5  0.084 -9.000 -9.000 -999.   59.     15.4  0.0200  0.72  1.00  1.50  240.0  15.0  280.8  2.0   0  0.00   77.  1013.    5 NAD-SFC NoSubs
 8  1  8  8 24   -0.6  0.055 -9.000 -9.000 -999.   31.     23.0  0.0650  0.72  1.00  0.50   34.0  15.0  279.8  2.0   0  0.00   82.  1012.   10 NAD-SFC NoSubs
 8  1  9  9  1   -6.1  0.130 -9.000 -9.000 -999.  113.     32.5  0.0400  0.72  1.00  2.10   85.0  15.0  279.4  2.0   0  0.00   86.  1013.   10 NAD-SFC NoSubs
 8  1  9  9  2   -8.9  0.157 -9.000 -9.000 -999.  149.     38.9  0.0310  0.72  1.00  2.60  106.0  15.0  279.8  2.0   0  0.00   88.  1013.   10 NAD-SFC NoSubs
 8  1  9  9  3  -11.2  0.151 -9.000 -9.000 -999.  140.     27.5  0.0280  0.72  1.00  2.60  136.0  15.0  279.9  2.0   0  0.00   89.  1013.    5 NAD-SFC NoSubs
 8  1  9  9  4   -2.1  0.073 -9.000 -9.000 -999.   50.     16.7  0.0240  0.72  1.00  1.00  174.0  15.0  279.6  2.0   0  0.00   92.  1013.    4 NAD-SFC NoSubs
 8  1  9  9  5   -0.9  0.064 -9.000 -9.000 -999.   39.     25.8  0.0240  0.72  1.00  0.50  156.0  15.0  279.4  2.0   0  0.00   95.  1013.    4 NAD-SFC NoSubs
 8  1  9  9  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  279.2  2.0   0  0.00   96.  1013.    3 NAD-SFC NoSubs
 8  1  9  9  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  279.1  2.0   0  0.00   98.  1014.    3 NAD-SFC NoSubs
 8  1  9  9  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.61  0.00    0.0  15.0  279.2  2.0   0  0.00   98.  1014.    2 NAD-SFC NoSubs
 8  1  9  9  9   15.0  0.060  0.315  0.005   75.   35.     -1.3  0.0420  0.72  0.34  0.50  280.0  15.0  279.6  2.0   0  0.00   97.  1014.    2 NAD-SFC NoSubs
 8  1  9  9 10   56.0  0.110  0.777  0.006  303.   87.     -2.1  0.0420  0.72  0.25  1.00  294.0  15.0  280.2  2.0   0  0.00   94.  1015.    2 NAD-SFC NoSubs
 8  1  9  9 11   85.8  0.115  1.045  0.007  482.   94.     -1.6  0.0420  0.72  0.22  1.00  291.0  15.0  280.8  2.0   0  0.00   90.  1015.    2 NAD-SFC NoSubs
 8  1  9  9 12  101.6  0.076  1.204  0.007  621.   51.     -1.0  0.0420  0.72  0.21  0.50  297.0  15.0  281.1  2.0   0  0.00   89.  1014.    2 NAD-SFC NoSubs
 8  1  9  9 13  102.7  0.089  1.265  0.007  713.   64.     -1.0  0.0950  0.72  0.21  0.50  344.0  15.0  281.5  2.0   0  0.00   87.  1014.    2 NAD-SFC NoSubs
 8  1  9  9 14   89.3  0.088  1.243  0.007  778.   62.     -1.0  0.0950  0.72  0.21  0.50  355.0  15.0  282.5  2.0   0  0.00   81.  1013.    2 NAD-SFC NoSubs
 8  1  9  9 15   61.6  0.168  1.118  0.007  820.  165.     -6.9  0.0950  0.72  0.24  1.50  350.0  15.0  282.8  2.0   0  0.00   79.  1013.    2 NAD-SFC NoSubs
 8  1  9  9 16   22.1  0.152  0.799  0.007  834.  142.    -14.3  0.0950  0.72  0.32  1.50  333.0  15.0  282.9  2.0   0  0.00   80.  1012.    2 NAD-SFC NoSubs
 8  1  9  9 17  -14.9  0.191 -9.000 -9.000 -999.  200.     42.1  0.0950  0.72  0.55  2.60  341.0  15.0  282.2  2.0   0  0.00   84.  1012.    2 NAD-SFC NoSubs
 8  1  9  9 18  -24.3  0.229 -9.000 -9.000 -999.  263.     44.5  0.0960  0.72  1.00  3.10    4.0  15.0  280.9  2.0   0  0.00   91.  1013.    2 NAD-SFC NoSubs
 8  1  9  9 19  -10.8  0.150 -9.000 -9.000 -999.  142.     28.3  0.0960  0.72  1.00  2.10   16.0  15.0  279.9  2.0   0  0.00   97.  1013.    2 NAD-SFC NoSubs
 8  1  9  9 20   -3.0  0.087 -9.000 -9.000 -999.   63.     20.0  0.0960  0.72  1.00  1.00   21.0  15.0  278.8  2.0   0  0.00  100.  1013.    2 NAD-SFC NoSubs
 8  1  9  9 21   -1.3  0.076 -9.000 -9.000 -999.   50.     29.9  0.0960  0.72  1.00  0.50   19.0  15.0  278.0  2.0   0  0.00  100.  1013.    2 NAD-SFC NoSubs
 8  1  9  9 22   -3.0  0.087 -9.000 -9.000 -999.   62.     20.0  0.0960  0.72  1.00  1.00   10.0  15.0  278.4  2.0   0  0.00  100.  1014.    2 NAD-SFC NoSubs
 8  1  9  9 23   -5.6  0.109 -9.000 -9.000 -999.   86.     20.7  0.0960  0.72  1.00  1.50   14.0  15.0  278.6  2.0   0  0.00  100.  1014.    2 NAD-SFC NoSubs
 8  1  9  9 24   -5.6  0.109 -9.000 -9.000 -999.   86.     20.7  0.0960  0.72  1.00  1.50    5.0  15.0  278.6  2.0   0  0.00  100.  1013.    2 NAD-SFC NoSubs
 8  1 10 10  1   -5.6  0.109 -9.000 -9.000 -999.   86.     20.6  0.0950  0.72  1.00  1.50  351.0  15.0  278.4  2.0   0  0.00  100.  1013.    2 NAD-SFC NoSubs
 8  1 10 10  2   -3.0  0.087 -9.000 -9.000 -999.   62.     20.0  0.0960  0.72  1.00  1.00    3.0  15.0  278.2  2.0   0  0.00  100.  1013.    2 NAD-SFC NoSubs
 8  1 10 10  3   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0400  0.72  1.00  0.50   60.0  15.0  277.9  2.0   0  0.00  100.  1013.    2 NAD-SFC NoSubs
 8  1 10 10  4   -1.0  0.068 -9.000 -9.000 -999.   42.     27.0  0.0310  0.72  1.00  0.50  115.0  15.0  277.8  2.0   0  0.00  100.  1013.    2 NAD-SFC NoSubs
 8  1 10 10  5   -1.0  0.067 -9.000 -9.000 -999.   42.     26.8  0.0280  0.72  1.00  0.50  138.0  15.0  277.6  2.0   0  0.00  100.  1013.    2 NAD-SFC NoSubs
 8  1 10 10  6   -2.3  0.075 -9.000 -9.000 -999.   50.     17.0  0.0240  0.72  1.00  1.00  155.0  15.0  277.5  2.0   0  0.00  100.  1013.    2 NAD-SFC NoSubs
 8  1 10 10  7   -2.1  0.073 -9.000 -9.000 -999.   48.     16.7  0.0240  0.72  1.00  1.00  154.0  15.0  277.4  2.0   0  0.00  100.  1013.    4 NAD-SFC NoSubs
 8  1 10 10  8   -1.9  0.070 -9.000 -9.000 -999.   45.     16.3  0.0240  0.72  0.61  1.00  154.0  15.0  277.4  2.0   0  0.00  100.  1013.    4 NAD-SFC NoSubs
 8  1 10 10  9   17.7  0.091  0.471  0.020  214.   66.     -3.8  0.0280  0.72  0.34  1.00  146.0  15.0  277.4  2.0   0  0.00  100.  1013.    4 NAD-SFC NoSubs
 8  1 10 10 10   56.3  0.103  0.725  0.019  245.   79.     -1.7  0.0280  0.72  0.25  1.00  132.0  15.0  277.8  2.0   0  0.00   98.  1013.    5 NAD-SFC NoSubs
 8  1 10 10 11   79.5  0.069  0.854  0.017  283.   44.     -1.0  0.0280  0.72  0.22  0.50  121.0  15.0  279.8  2.0   0  0.00   86.  1013.    6 NAD-SFC NoSubs
 8  1 10 10 12   83.9 -9.000 -9.000 -9.000  320. -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0  282.2  2.0   0  0.00   75.  1012.    7 NAD-SFC NoSubs
 8  1 10 10 13   85.3 -9.000 -9.000 -9.000  353. -999. -99999.0  0.0471  0.72  0.20  0.00    0.0  15.0  284.1  2.0   0  0.00   68.  1012.    7 NAD-SFC NoSubs
 8  1 10 10 14   91.3 -9.000 -9.000 -9.000  386. -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0  285.6  2.0   0  0.00   62.  1011.    4 NAD-SFC NoSubs
 8  1 10 10 15   64.7 -9.000 -9.000 -9.000  427. -999. -99999.0  0.0471  0.72  0.24  0.00    0.0  15.0  286.5  2.0   0  0.00   57.  1010.    4 NAD-SFC NoSubs
 8  1 10 10 16   26.6 -9.000 -9.000 -9.000  445. -999. -99999.0  0.0471  0.72  0.32  0.00    0.0  15.0  287.2  2.0   0  0.00   61.  1009.    5 NAD-SFC NoSubs
 8  1 10 10 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.55  0.00    0.0  15.0  286.8  2.0   0  0.00   64.  1009.    6 NAD-SFC NoSubs
 8  1 10 10 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  286.0  2.0   0  0.00   69.  1009.    6 NAD-SFC NoSubs
 8  1 10 10 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  285.2  2.0   0  0.00   74.  1009.    5 NAD-SFC NoSubs
 8  1 10 10 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  284.4  2.0   0  0.00   77.  1010.    5 NAD-SFC NoSubs
 8  1 10 10 21   -1.0  0.065 -9.000 -9.000 -999.   40.     26.3  0.0400  0.72  1.00  0.50   85.0  15.0  283.8  2.0   0  0.00   81.  1010.    5 NAD-SFC NoSubs
 8  1 10 10 22   -0.8  0.062 -9.000 -9.000 -999.   37.     25.0  0.0400  0.72  1.00  0.50   72.0  15.0  283.2  2.0   0  0.00   83.  1010.    7 NAD-SFC NoSubs
 8  1 10 10 23   -0.6  0.054 -9.000 -9.000 -999.   30.     22.9  0.0650  0.72  1.00  0.50   38.0  15.0  282.8  2.0   0  0.00   86.  1011.   10 NAD-SFC NoSubs
 8  1 10 10 24   -0.6  0.054 -9.000 -9.000 -999.   30.     22.9  0.0650  0.72  1.00  0.50   31.0  15.0  282.8  2.0   0  0.00   86.  1011.   10 NAD-SFC NoSubs
 8  1 11 11  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  283.0  2.0   0  0.00   85.  1011.   10 NAD-SFC NoSubs
 8  1 11 11  2   -0.5  0.049 -9.000 -9.000 -999.   26.     20.4  0.0200  0.72  1.00  0.50  244.0  15.0  283.2  2.0   0  0.00   84.  1011.   10 NAD-SFC NoSubs
 8  1 11 11  3   -3.1  0.091 -9.000 -9.000 -999.   66.     22.5  0.0420  0.72  1.00  1.50  283.0  15.0  283.4  2.0   0  0.00   83.  1011.   10 NAD-SFC NoSubs
 8  1 11 11  4   -2.3  0.078 -9.000 -9.000 -999.   53.     18.9  0.0800  0.72  1.00  1.00  314.0  15.0  283.4  2.0   0  0.00   83.  1011.    7 NAD-SFC NoSubs
 8  1 11 11  5   -1.1  0.071 -9.000 -9.000 -999.   46.     28.5  0.0950  0.72  1.00  0.50  343.0  15.0  283.0  2.0   0  0.00   86.  1011.    5 NAD-SFC NoSubs
 8  1 11 11  6   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0420  0.72  1.00  0.50  284.0  15.0  282.4  2.0   0  0.00   90.  1012.    2 NAD-SFC NoSubs
 8  1 11 11  7   -4.5  0.095 -9.000 -9.000 -999.   70.     17.3  0.0420  0.72  1.00  1.50  282.0  15.0  281.8  2.0   0  0.00   97.  1012.    2 NAD-SFC NoSubs
 8  1 11 11  8   -4.2  0.094 -9.000 -9.000 -999.   69.     17.8  0.0420  0.72  0.61  1.50  281.0  15.0  281.8  2.0   0  0.00  100.  1012.    2 NAD-SFC NoSubs
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 8  1 11  11  9   16.0  0.115  0.357  0.008  103.   94.    -8.6  0.0200  0.72  0.34  1.50  252.0  15.0  282.4  2.0  0  0.00   99.  1013.   2 NAD-SFC NoSubs
 8  1 11  11 10   57.1  0.167  0.727  0.007  242.  164.    -7.4  0.0220  0.72  0.25  2.10  225.0  15.0  282.5  2.0  0  0.00   98.  1013.   2 NAD-SFC NoSubs
 8  1 11  11 11   87.1  0.173  0.959  0.007  366.  173.    -5.4  0.0220  0.72  0.22  2.10  197.0  15.0  282.9  2.0  0  0.00   93.  1013.   2 NAD-SFC NoSubs
 8  1 11  11 12  103.2  0.139  1.128  0.006  503.  124.    -2.3  0.0220  0.72  0.21  1.50  200.0  15.0  283.5  2.0  0  0.00   89.  1012.   2 NAD-SFC NoSubs
 8  1 11  11 13  104.6  0.069  1.215  0.006  618.   45.    -1.0  0.0220  0.72  0.20  0.50  215.0  15.0  284.2  2.0  0  0.00   85.  1011.   2 NAD-SFC NoSubs
 8  1 11  11 14   91.3  0.085  1.214  0.005  707.   60.    -1.0  0.0800  0.72  0.21  0.50  304.0  15.0  284.8  2.0  0  0.00   83.  1011.   2 NAD-SFC NoSubs
 8  1 11  11 15   63.8  0.163  1.106  0.005  765.  158.    -6.1  0.0800  0.72  0.24  1.50  327.0  15.0  285.1  2.0  0  0.00   83.  1010.   2 NAD-SFC NoSubs
 8  1 11  11 16   24.2  0.197  0.808  0.005  785.  210.   -28.6  0.0950  0.72  0.32  2.10  351.0  15.0  285.1  2.0  0  0.00   84.  1010.   2 NAD-SFC NoSubs
 8  1 11  11 17   -4.7  0.107 -9.000 -9.000 -999.   87.    23.5  0.0960  0.72  0.54  1.50   13.0  15.0  284.4  2.0  0  0.00   87.  1010.   2 NAD-SFC NoSubs
 8  1 11  11 18   -2.7  0.083 -9.000 -9.000 -999.   57.    19.0  0.0650  0.72  1.00  1.00   46.0  15.0  283.6  2.0  0  0.00   92.  1010.   2 NAD-SFC NoSubs
 8  1 11  11 19   -2.4  0.079 -9.000 -9.000 -999.   53.    17.9  0.0400  0.72  1.00  1.00   69.0  15.0  282.8  2.0  0  0.00   96.  1010.   2 NAD-SFC NoSubs
 8  1 11  11 20   -1.1  0.069 -9.000 -9.000 -999.   43.    27.5  0.0400  0.72  1.00  0.50   74.0  15.0  281.9  2.0  0  0.00  100.  1010.   2 NAD-SFC NoSubs
 8  1 11  11 21   -2.7  0.083 -9.000 -9.000 -999.   58.    19.0  0.0650  0.72  1.00  1.00   46.0  15.0  280.0  2.0  0  0.00  100.  1011.   2 NAD-SFC NoSubs
 8  1 11  11 22   -2.5  0.079 -9.000 -9.000 -999.   53.    18.0  0.0400  0.72  1.00  1.00   76.0  15.0  279.8  2.0  0  0.00  100.  1011.   2 NAD-SFC NoSubs
 8  1 11  11 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  279.8  2.0  0  0.00  100.  1011.   2 NAD-SFC NoSubs
 8  1 11  11 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  280.1  2.0  0  0.00  100.  1011.   2 NAD-SFC NoSubs
 8  1 12  12  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  280.2  2.0  0  0.00  100.  1011.   2 NAD-SFC NoSubs
 8  1 12  12  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  280.2  2.0  0  0.00  100.  1011.   2 NAD-SFC NoSubs
 8  1 12  12  3   -1.2  0.074 -9.000 -9.000 -999.   48.    29.3  0.0800  0.72  1.00  0.50  324.0  15.0  280.4  2.0  0  0.00  100.  1011.   2 NAD-SFC NoSubs
 8  1 12  12  4   -1.2  0.074 -9.000 -9.000 -999.   48.    29.3  0.0800  0.72  1.00  0.50  326.0  15.0  280.6  2.0  0  0.00  100.  1011.   2 NAD-SFC NoSubs
 8  1 12  12  5   -1.3  0.075 -9.000 -9.000 -999.   49.    29.8  0.0960  0.72  1.00  0.50    7.0  15.0  280.8  2.0  0  0.00  100.  1012.   2 NAD-SFC NoSubs
 8  1 12  12  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  280.8  2.0  0  0.00  100.  1012.   2 NAD-SFC NoSubs
 8  1 12  12  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  281.0  2.0  0  0.00  100.  1012.   2 NAD-SFC NoSubs
 8  1 12  12  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.61  0.00    0.0  15.0  281.1  2.0  0  0.00  100.  1012.   2 NAD-SFC NoSubs
 8  1 12  12  9   16.0 -9.000 -9.000 -9.000  205. -999. -99999.0  0.0471  0.72  0.34  0.00    0.0  15.0  281.2  2.0  0  0.00  100.  1012.   2 NAD-SFC NoSubs
 8  1 12  12 10   57.3 -9.000 -9.000 -9.000  253. -999. -99999.0  0.0471  0.72  0.25  0.00    0.0  15.0  281.6  2.0  0  0.00  100.  1013.   2 NAD-SFC NoSubs
 8  1 12  12 11   87.5 -9.000 -9.000 -9.000  312. -999. -99999.0  0.0471  0.72  0.22  0.00    0.0  15.0  282.4  2.0  0  0.00   95.  1013.   2 NAD-SFC NoSubs
 8  1 12  12 12  103.8  0.083  1.022  0.015  371.   58.    -1.0  0.0650  0.72  0.20  0.50   49.0  15.0  283.6  2.0  0  0.00   89.  1012.   2 NAD-SFC NoSubs
 8  1 12  12 13  105.6 -9.000 -9.000 -9.000  436. -999. -99999.0  0.0471  0.72  0.20  0.00    0.0  15.0  285.5  2.0  0  0.00   79.  1012.   2 NAD-SFC NoSubs
 8  1 12  12 14   92.7  0.085  1.081  0.014  492.   60.    -1.0  0.0800  0.72  0.21  0.50  318.0  15.0  287.0  2.0  0  0.00   70.  1011.   2 NAD-SFC NoSubs
 8  1 12  12 15   66.5  0.169  0.991  0.014  528.  167.    -6.6  0.0950  0.72  0.24  1.50  331.0  15.0  287.5  2.0  0  0.00   66.  1011.   3 NAD-SFC NoSubs
 8  1 12  12 16   27.3  0.155  0.743  0.013  542.  146.   -12.3  0.0950  0.72  0.31  1.50  339.0  15.0  287.6  2.0  0  0.00   66.  1011.   3 NAD-SFC NoSubs
 8  1 12  12 17   12.3 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.54  0.00    0.0  15.0  287.1  2.0  0  0.00   68.  1011.   3 NAD-SFC NoSubs
 8  1 12  12 18   -2.6  0.082 -9.000 -9.000 -999.   56.    18.9  0.0650  0.72  1.00  1.00   49.0  15.0  286.1  2.0  0  0.00   72.  1012.   3 NAD-SFC NoSubs
 8  1 12  12 19   -1.0  0.066 -9.000 -9.000 -999.   41.    26.5  0.0310  0.72  1.00  0.50   92.0  15.0  285.1  2.0  0  0.00   78.  1013.   3 NAD-SFC NoSubs
 8  1 12  12 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  284.1  2.0  0  0.00   83.  1013.   3 NAD-SFC NoSubs
 8  1 12  12 21   -1.0  0.066 -9.000 -9.000 -999.   41.    26.6  0.0310  0.72  1.00  0.50  116.0  15.0  283.2  2.0  0  0.00   87.  1013.   3 NAD-SFC NoSubs
 8  1 12  12 22   -1.0  0.066 -9.000 -9.000 -999.   41.    26.4  0.0280  0.72  1.00  0.50  137.0  15.0  282.6  2.0  0  0.00   91.  1013.   3 NAD-SFC NoSubs
 8  1 12  12 23   -1.0  0.065 -9.000 -9.000 -999.   40.    26.0  0.0240  0.72  1.00  0.50  155.0  15.0  282.0  2.0  0  0.00   94.  1014.   3 NAD-SFC NoSubs
 8  1 12  12 24   -1.0  0.065 -9.000 -9.000 -999.   40.    26.1  0.0240  0.72  1.00  0.50  150.0  15.0  281.2  2.0  0  0.00   97.  1014.   3 NAD-SFC NoSubs
 8  1 13  13  1   -1.0  0.066 -9.000 -9.000 -999.   41.    26.5  0.0280  0.72  1.00  0.50  129.0  15.0  279.6  2.0  0  0.00  100.  1014.   3 NAD-SFC NoSubs
 8  1 13  13  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  278.8  2.0  0  0.00  100.  1014.   3 NAD-SFC NoSubs
 8  1 13  13  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  277.9  2.0  0  0.00  100.  1014.   2 NAD-SFC NoSubs
 8  1 13  13  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  277.8  2.0  0  0.00  100.  1014.   2 NAD-SFC NoSubs
 8  1 13  13  5   -1.3  0.075 -9.000 -9.000 -999.   50.    29.9  0.0950  0.72  1.00  0.50  334.0  15.0  278.8  2.0  0  0.00  100.  1015.   2 NAD-SFC NoSubs
 8  1 13  13  6   -3.0  0.087 -9.000 -9.000 -999.   62.    20.0  0.0950  0.72  1.00  1.00  330.0  15.0  279.0  2.0  0  0.00  100.  1015.   2 NAD-SFC NoSubs
 8  1 13  13  7   -2.9  0.085 -9.000 -9.000 -999.   60.    19.6  0.0800  0.72  1.00  1.00  327.0  15.0  279.2  2.0  0  0.00  100.  1015.   2 NAD-SFC NoSubs
 8  1 13  13  8   -2.6  0.082 -9.000 -9.000 -999.   57.    19.2  0.0800  0.72  0.61  1.00  303.0  15.0  279.2  2.0  0  0.00  100.  1016.   2 NAD-SFC NoSubs
 8  1 13  13  9   16.0  0.129  0.276  0.009   47.  111.   -12.1  0.0420  0.72  0.34  1.50  281.0  15.0  279.2  2.0  0  0.00  100.  1016.   2 NAD-SFC NoSubs
 8  1 13  13 10   57.4  0.184  0.585  0.008  126.  190.    -9.9  0.0420  0.72  0.25  2.10  283.0  15.0  279.5  2.0  0  0.00  100.  1016.   2 NAD-SFC NoSubs
 8  1 13  13 11   87.5  0.151  0.869  0.009  272.  141.    -3.6  0.0420  0.72  0.22  1.50  282.0  15.0  279.8  2.0  0  0.00  100.  1016.   2 NAD-SFC NoSubs
 8  1 13  13 12  103.8 -9.000 -9.000 -9.000  424. -999. -99999.0  0.0471  0.72  0.20  0.00    0.0  15.0  280.8  2.0  0  0.00   95.  1015.   2 NAD-SFC NoSubs
 8  1 13  13 13  105.7  0.076  1.172  0.011  552.   50.    -1.0  0.0400  0.72  0.20  0.50   60.0  15.0  282.8  2.0  0  0.00   83.  1015.   2 NAD-SFC NoSubs
 8  1 13  13 14   92.8  0.082  1.183  0.011  645.   56.    -1.0  0.0650  0.72  0.21  0.50   37.0  15.0  284.6  2.0  0  0.00   74.  1014.   2 NAD-SFC NoSubs
 8  1 13  13 15   65.6  0.120  1.074  0.011  683.  100.    -2.4  0.0650  0.72  0.24  1.00   41.0  15.0  285.6  2.0  0  0.00   69.  1014.   2 NAD-SFC NoSubs
 8  1 13  13 16   26.0  0.144  0.794  0.010  695.  131.   -10.4  0.0650  0.72  0.31  1.50   36.0  15.0  285.6  2.0  0  0.00   71.  1014.   2 NAD-SFC NoSubs
 8  1 13  13 17   -2.0  0.074 -9.000 -9.000 -999.   50.    18.1  0.0650  0.72  0.53  1.00   47.0  15.0  284.9  2.0  0  0.00   75.  1014.   2 NAD-SFC NoSubs
 8  1 13  13 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  283.8  2.0  0  0.00   81.  1014.   2 NAD-SFC NoSubs
 8  1 13  13 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.8  2.0  0  0.00   86.  1014.   2 NAD-SFC NoSubs
 8  1 13  13 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.1  2.0  0  0.00   91.  1014.   2 NAD-SFC NoSubs
 8  1 13  13 21   -1.3  0.075 -9.000 -9.000 -999.   49.    29.8  0.0960  0.72  1.00  0.50   18.0  15.0  281.4  2.0  0  0.00   95.  1015.   2 NAD-SFC NoSubs
 8  1 13  13 22   -3.0  0.087 -9.000 -9.000 -999.   62.    20.0  0.0960  0.72  1.00  1.00   21.0  15.0  280.8  2.0  0  0.00   99.  1015.   2 NAD-SFC NoSubs
 8  1 13  13 23   -2.8  0.083 -9.000 -9.000 -999.   58.    19.1  0.0650  0.72  1.00  1.00   30.0  15.0  278.8  2.0  0  0.00  100.  1016.   2 NAD-SFC NoSubs
 8  1 13  13 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  277.5  2.0  0  0.00  100.  1016.   2 NAD-SFC NoSubs
 8  1 14  14  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  277.8  2.0  0  0.00  100.  1016.   2 NAD-SFC NoSubs
 8  1 14  14  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  278.1  2.0  0  0.00  100.  1016.   2 NAD-SFC NoSubs
 8  1 14  14  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  277.9  2.0  0  0.00  100.  1016.   2 NAD-SFC NoSubs
 8  1 14  14  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  277.9  2.0  0  0.00  100.  1016.   2 NAD-SFC NoSubs
 8  1 14  14  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  278.1  2.0  0  0.00  100.  1016.   2 NAD-SFC NoSubs
 8  1 14  14  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  278.2  2.0  0  0.00  100.  1017.   2 NAD-SFC NoSubs
 8  1 14  14  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  278.2  2.0  0  0.00  100.  1017.   2 NAD-SFC NoSubs
 8  1 14  14  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.61  0.00    0.0  15.0  277.9  2.0  0  0.00  100.  1017.   2 NAD-SFC NoSubs
 8  1 14  14  9   16.2 -9.000 -9.000 -9.000   55. -999. -99999.0  0.0471  0.72  0.34  0.00    0.0  15.0  278.6  2.0  0  0.00   96.  1017.   2 NAD-SFC NoSubs
 8  1 14  14 10   58.3 -9.000 -9.000 -9.000  120. -999. -99999.0  0.0471  0.72  0.25  0.00    0.0  15.0  282.0  2.0  0  0.00   73.  1017.   2 NAD-SFC NoSubs
 8  1 14  14 11   89.0  0.088  0.773  0.011  189.   62.    -1.0  0.0950  0.72  0.21  0.50  348.0  15.0  284.1  2.0  0  0.00   63.  1017.   2 NAD-SFC NoSubs
 8  1 14  14 12  105.6  0.137  0.964  0.010  307.  121.    -2.2  0.0950  0.72  0.20  1.00  357.0  15.0  285.8  2.0  0  0.00   56.  1016.   2 NAD-SFC NoSubs
 8  1 14  14 13  107.5  0.137  1.074  0.010  417.  122.    -2.2  0.0960  0.72  0.20  1.00    3.0  15.0  287.2  2.0  0  0.00   49.  1015.   2 NAD-SFC NoSubs
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8	1	14	14	14	94.6	0.176	1.110	0.011	524.	178.	-5.2	0.0960	0.72	0.21	1.50	1.0	15.0	288.0	2.0	0	0.00	46.	1015.	2	NAD-SFC NoSubs
8	1	14	14	15	67.2	0.170	1.030	0.011	588.	168.	-6.6	0.0960	0.72	0.24	1.50	7.0	15.0	288.2	2.0	0	0.00	45.	1014.	2	NAD-SFC NoSubs
8	1	14	14	16	27.5	0.200	0.775	0.011	612.	214.	-26.1	0.0960	0.72	0.31	2.10	26.0	15.0	287.9	2.0	0	0.00	50.	1014.	2	NAD-SFC NoSubs
8	1	14	14	17	-7.9	0.141	-9.000	-9.000	-999.	128.	32.3	0.0650	0.72	0.52	2.10	42.0	15.0	286.9	2.0	0	0.00	54.	1014.	2	NAD-SFC NoSubs
8	1	14	14	18	-2.9	0.087	-9.000	-9.000	-999.	62.	19.9	0.0960	0.72	1.00	1.00	26.0	15.0	285.8	2.0	0	0.00	59.	1014.	2	NAD-SFC NoSubs
8	1	14	14	19	-1.3	0.075	-9.000	-9.000	-999.	49.	29.7	0.0960	0.72	1.00	0.50	15.0	15.0	284.5	2.0	0	0.00	64.	1014.	2	NAD-SFC NoSubs
8	1	14	14	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	283.5	2.0	0	0.00	69.	1014.	2	NAD-SFC NoSubs
8	1	14	14	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	282.8	2.0	0	0.00	73.	1014.	2	NAD-SFC NoSubs
8	1	14	14	22	-1.3	0.075	-9.000	-9.000	-999.	49.	29.8	0.0960	0.72	1.00	0.50	7.0	15.0	282.0	2.0	0	0.00	77.	1014.	2	NAD-SFC NoSubs
8	1	14	14	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	281.8	2.0	0	0.00	78.	1014.	2	NAD-SFC NoSubs
8	1	14	14	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	281.8	2.0	0	0.00	78.	1013.	2	NAD-SFC NoSubs
8	1	15	15	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	281.8	2.0	0	0.00	78.	1013.	2	NAD-SFC NoSubs
8	1	15	15	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	281.8	2.0	0	0.00	79.	1013.	2	NAD-SFC NoSubs
8	1	15	15	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	281.8	2.0	0	0.00	80.	1012.	2	NAD-SFC NoSubs
8	1	15	15	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	281.5	2.0	0	0.00	81.	1012.	2	NAD-SFC NoSubs
8	1	15	15	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	281.2	2.0	0	0.00	83.	1012.	2	NAD-SFC NoSubs
8	1	15	15	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	280.8	2.0	0	0.00	86.	1012.	2	NAD-SFC NoSubs
8	1	15	15	7	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	280.1	2.0	0	0.00	88.	1011.	2	NAD-SFC NoSubs
8	1	15	15	8	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	0.60	0.00	0.0	15.0	279.9	2.0	0	0.00	89.	1011.	2	NAD-SFC NoSubs
8	1	15	15	9	17.0	-9.000	-9.000	-9.000	70.	-999.	-99999.0	0.0471	0.72	0.34	0.00	0.0	15.0	281.5	2.0	0	0.00	77.	1011.	2	NAD-SFC NoSubs
8	1	15	15	10	59.1	0.123	0.667	0.012	181.	104.	-2.9	0.0800	0.72	0.25	1.00	317.0	15.0	283.8	2.0	0	0.00	63.	1011.	2	NAD-SFC NoSubs
8	1	15	15	11	89.9	0.085	0.927	0.011	319.	59.	-1.0	0.0800	0.72	0.21	0.50	322.0	15.0	285.6	2.0	0	0.00	53.	1010.	2	NAD-SFC NoSubs
8	1	15	15	12	106.5	0.087	1.081	0.011	427.	61.	-1.0	0.0800	0.72	0.20	0.50	310.0	15.0	286.6	2.0	0	0.00	50.	1009.	2	NAD-SFC NoSubs
8	1	15	15	13	108.4	0.133	1.148	0.010	502.	116.	-1.9	0.0800	0.72	0.20	1.00	304.0	15.0	287.5	2.0	0	0.00	46.	1009.	2	NAD-SFC NoSubs
8	1	15	15	14	95.5	0.171	1.142	0.009	561.	169.	-4.7	0.0800	0.72	0.21	1.50	310.0	15.0	288.1	2.0	0	0.00	44.	1008.	2	NAD-SFC NoSubs
8	1	15	15	15	68.1	0.208	1.044	0.009	599.	228.	-11.9	0.0800	0.72	0.24	2.10	323.0	15.0	288.2	2.0	0	0.00	45.	1007.	2	NAD-SFC NoSubs
8	1	15	15	16	28.6	0.200	0.788	0.009	615.	215.	-25.1	0.0950	0.72	0.31	2.10	336.0	15.0	288.5	2.0	0	0.00	66.	1007.	2	NAD-SFC NoSubs
8	1	15	15	17	-8.6	0.153	-9.000	-9.000	-999.	144.	37.1	0.0950	0.72	0.52	2.10	343.0	15.0	287.9	2.0	0	0.00	68.	1006.	2	NAD-SFC NoSubs
8	1	15	15	18	-5.2	0.105	-9.000	-9.000	-999.	82.	20.0	0.0800	0.72	1.00	1.50	317.0	15.0	287.0	2.0	0	0.00	70.	1007.	2	NAD-SFC NoSubs
8	1	15	15	19	-10.0	0.145	-9.000	-9.000	-999.	132.	27.1	0.0800	0.72	1.00	2.10	301.0	15.0	286.0	2.0	0	0.00	72.	1007.	2	NAD-SFC NoSubs
8	1	15	15	20	-15.5	0.182	-9.000	-9.000	-999.	187.	35.2	0.0800	0.72	1.00	2.60	312.0	15.0	285.0	2.0	0	0.00	73.	1007.	3	NAD-SFC NoSubs
8	1	15	15	21	-10.0	0.145	-9.000	-9.000	-999.	132.	27.4	0.0800	0.72	1.00	2.10	314.0	15.0	284.0	2.0	0	0.00	74.	1007.	3	NAD-SFC NoSubs
8	1	15	15	22	-5.2	0.105	-9.000	-9.000	-999.	82.	20.1	0.0800	0.72	1.00	1.50	313.0	15.0	283.1	2.0	0	0.00	74.	1007.	3	NAD-SFC NoSubs
8	1	15	15	23	-2.4	0.078	-9.000	-9.000	-999.	53.	17.9	0.0420	0.72	1.00	1.00	299.0	15.0	282.2	2.0	0	0.00	75.	1007.	3	NAD-SFC NoSubs
8	1	15	15	24	-2.4	0.078	-9.000	-9.000	-999.	53.	17.9	0.0420	0.72	1.00	1.00	280.0	15.0	281.6	2.0	0	0.00	75.	1007.	3	NAD-SFC NoSubs
8	1	16	16	1	-6.9	0.113	-9.000	-9.000	-999.	92.	19.0	0.0200	0.72	1.00	2.10	256.0	15.0	281.0	2.0	0	0.00	73.	1008.	3	NAD-SFC NoSubs
8	1	16	16	2	-21.0	0.202	-9.000	-9.000	-999.	218.	35.1	0.0200	0.72	1.00	3.60	259.0	15.0	280.5	2.0	0	0.00	69.	1008.	3	NAD-SFC NoSubs
8	1	16	16	3	-25.1	0.232	-9.000	-9.000	-999.	268.	44.5	0.0200	0.72	1.00	4.10	267.0	15.0	279.6	2.0	0	0.00	67.	1008.	3	NAD-SFC NoSubs
8	1	16	16	4	-24.8	0.228	-9.000	-9.000	-999.	262.	43.2	0.0420	0.72	1.00	3.60	279.0	15.0	278.8	2.0	0	0.00	66.	1008.	3	NAD-SFC NoSubs
8	1	16	16	5	-24.9	0.228	-9.000	-9.000	-999.	262.	43.1	0.0420	0.72	1.00	3.60	284.0	15.0	278.2	2.0	0	0.00	64.	1008.	3	NAD-SFC NoSubs
8	1	16	16	6	-24.9	0.228	-9.000	-9.000	-999.	262.	43.0	0.0420	0.72	1.00	3.60	272.0	15.0	278.0	2.0	0	0.00	61.	1009.	3	NAD-SFC NoSubs
8	1	16	16	7	-21.4	0.202	-9.000	-9.000	-999.	217.	34.4	0.0200	0.72	1.00	3.60	262.0	15.0	277.8	2.0	0	0.00	58.	1009.	2	NAD-SFC NoSubs
8	1	16	16	8	-20.1	0.202	-9.000	-9.000	-999.	218.	37.1	0.0200	0.72	0.60	3.60	268.0	15.0	277.5	2.0	0	0.00	57.	1009.	2	NAD-SFC NoSubs
8	1	16	16	9	17.0	0.262	0.324	0.009	72.	323.	-95.7	0.0420	0.72	0.33	3.60	292.0	15.0	279.1	2.0	0	0.00	49.	1009.	2	NAD-SFC NoSubs
8	1	16	16	10	59.1	0.280	0.664	0.008	178.	356.	-33.5	0.0420	0.72	0.25	3.60	277.0	15.0	280.9	2.0	0	0.00	44.	1009.	2	NAD-SFC NoSubs
8	1	16	16	11	89.9	0.225	0.914	0.009	306.	256.	-11.3	0.0420	0.72	0.21	2.60	271.0	15.0	282.9	2.0	0	0.00	38.	1009.	2	NAD-SFC NoSubs
8	1	16	16	12	106.6	0.195	1.081	0.008	425.	207.	-6.3	0.0420	0.72	0.20	2.10	272.0	15.0	284.4	2.0	0	0.00	34.	1008.	2	NAD-SFC NoSubs
8	1	16	16	13	108.7	0.155	1.177	0.008	540.	147.	-3.1	0.0420	0.72	0.20	1.50	292.0	15.0	285.8	2.0	0	0.00	32.	1007.	2	NAD-SFC NoSubs
8	1	16	16	14	95.9	0.222	1.185	0.007	623.	252.	-10.3	0.0950	0.72	0.21	2.10	330.0	15.0	286.5	2.0	0	0.00	32.	1007.	2	NAD-SFC NoSubs
8	1	16	16	15	68.6	0.289	1.089	0.007	677.	372.	-31.4	0.0950	0.72	0.23	3.10	341.0	15.0	286.8	2.0	0	0.00	33.	1007.	2	NAD-SFC NoSubs
8	1	16	16	16	28.9	0.273	0.825	0.007	697.	342.	-63.2	0.0960	0.72	0.30	3.10	5.0	15.0	286.2	2.0	0	0.00	40.	1007.	2	NAD-SFC NoSubs
8	1	16	16	17	-18.6	0.271	-9.000	-9.000	-999.	339.	96.4	0.0960	0.72	0.51	3.60	26.0	15.0	285.4	2.0	0	0.00	45.	1008.	2	NAD-SFC NoSubs
8	1	16	16	18	-28.5	0.260	-9.000	-9.000	-999.	318.	55.5	0.0400	0.72	1.00	4.10	81.0	15.0	284.2	2.0	0	0.00	51.	1009.	2	NAD-SFC NoSubs
8	1	16	16	19	-26.9	0.244	-9.000	-9.000	-999.	290.	48.9	0.0280	0.72	1.00	4.10	139.0	15.0	283.1	2.0	0	0.00	56.	1010.	2	NAD-SFC NoSubs
8	1	16	16	20	-29.8	0.269	-9.000	-9.000	-999.	335.	58.8	0.0240	0.72	1.00	4.60	170.0	15.0	281.2	2.0	0	0.00	55.	1010.	2	NAD-SFC NoSubs
8	1	16	16	21	-33.4	0.300	-9.000	-9.000	-999.	393.	72.6	0.0240	0.72	1.00	5.10	166.0	15.0	280.0	2.0	0	0.00	48.	1011.	2	NAD-SFC NoSubs
8	1	16	16	22	-37.6	0.336	-9.000	-9.000	-999.	468.	91.3	0.0240	0.72	1.00	5.70	156.0	15.0	279.2	2.0	0	0.00	46.	1011.	2	NAD-SFC NoSubs
8	1	16	16	23	-41.1	0.367	-9.000	-9.000	-999.	533.	108.5	0.0240	0.72	1.00	6.20	169.0	15.0	278.8	2.0	0	0.00	46.	1011.	2	NAD-SFC NoSubs
8	1	16	16	24	-41.1	0.367	-9.000	-9.000	-999.	534.	108.3	0.0240	0.72	1.00	6.20	172.0	15.0	278.2	2.0	0	0.00	45.	1011.	2	NAD-SFC NoSubs
8	1	17	17	1	-41.2	0.367	-9.000	-9.000	-999.	533.	108.2	0.0240	0.72	1.00	6.20	167.0	15.0	277.9	2.0	0	0.00	44.	1011.	2	NAD-SFC NoSubs
8	1	17	17	2	-37.8	0.336	-9.000	-9.000	-999.	469.	90.7	0.0240	0.72	1.00	5.70	158.0	15.0	277.6	2.0	0	0.00	44.	1012.	2	NAD-SFC NoSubs
8	1	17	17	3	-26.8	0.238	-9.000	-9.000	-999.	284.	45.5	0.0240	0.72	1.00	4.10	159.0	15.0	277.1	2.0	0	0.00	46.	1012.	2	NAD-SFC NoSubs
8	1	17	17	4	-16.5	0.177	-9.000	-9.000	-999.	179.	30.2	0.0240	0.72	1.00	3.10	164.0	15.0	276.9	2.0	0	0.00	48.	1012.	2	NAD-SFC NoSubs
8	1	17	17	5	-4.0	0.088	-9.000	-9.000	-999.	66.	15.6	0.0240	0.72	1.00	1.50	173.0	15.0	276.5	2.0	0	0.00	50.	1013.	2	NAD-SFC NoSubs
8	1	17	17	6	-2.3	0.075	-9.000	-9.000	-999.	50.	17.0	0.0240	0.72	1.00	1.00	157.0	15.0	276.2	2.0	0	0.00	51.	1014.	2	NAD-SFC NoSubs
8	1	17	17	7	-1.0	0.067	-9.000	-9.000	-999.	42.	26.9	0.0280	0.72	1.00	0.50	130.0	15.0	275.8	2.0	0	0.00	54.	1014.	2	NAD-SFC NoSubs
8	1	17	17	8	-0.9	0.064	-9.000	-9.000	-999.	39.	25.7	0.0280	0.72	0.60	0.50	131.0	15.0	275.6	2.0	0	0.00	55.	1014.	2	NAD-SFC NoSubs
8	1	17	17	9	17.1	0.060	0.303	0.011	59.	36.	-1.2	0.0400	0.72	0.33	0.50	64.0	15.0	277.2	2.0	0	0.00	49.	1014.	2	NAD-SFC NoSubs
8	1	17	17	10	59.4	0.083	0.703	0.009	211.	57.	-1.0	0.0960	0.72	0.24	0.50	2.0	15.0	279.8	2.0	0	0.00	40.	1014.	2	NAD-SFC NoSubs
8	1	17	17	11	90.2	0.075	0.964	0.007	359.	50.	-1.0	0.0420	0.72	0.21	0.50	296.0	15.0	281.5	2.0	0	0.00	33.	1014.	2	NAD-SFC NoSubs
8	1	17	17	12	107.0	0.087	1.120	0.007	474.	61.	-1.0	0.0800	0.72	0.20	0.50	305.0	15.0	282.6	2.0	0	0.00	30.	1013.	2	NAD-SFC NoSubs
8	1	17	17	13	109.0	-9.000	-9.000	-9.000	568.	-999.	-99999.0	0.0471	0.72	0.20	0.00	0.0	15.0	283.5	2.0	0	0.00	28.	1012.	2	NAD-SFC NoSubs
8	1	17	17	14	96.2	0.086	1.194	0.005	639.	60.	-1.0	0.0800	0.72	0.21	0.50	318.0	15.0	284.1	2.0	0	0.00	27.	1012.	2	NAD-SFC NoSubs
8	1	17	17	15	69.0	-9.000	-9.000	-9.000	707.	-999.	-99999.0	0.0471	0.72	0.23	0.00	0.0	15.0	284.4	2.0	0	0.00	27.	1011.	2	NAD-SFC NoSubs
8	1	17	17	16	29.3	0.156	0.844	0.005	740.	148.	-11.8	0.0960	0.72	0.30	1.50	12.0	15.0	284.2	2.0	0	0.00	31.	1011.	2	NAD-SFC NoSubs
8	1	17	17	17	-13.1	0.193	-9.000	-9.000	-999.	203.	49.5	0.0960	0.72	0.50	2.60	18.0	15.0	283.2	2.0	0	0.00	35.	1011.	2	NAD-SFC NoSubs
8	1	17	17	18	-24.2	0.229	-9.000	-9.000	-999.	263.	44.6	0.0960	0.72	1.00	3.10	29.0	15.0	282.1	2.0	0	0.00	39.	1011.	2	NAD-SFC NoSubs

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 8  1 17  17 19   -5.6  0.109 -9.000 -9.000 -999.   95.     20.7  0.0960  0.72  1.00  1.50  29.0  15.0 280.9  2.0   0  0.00  44.  1012.   2 NAD-SFC NoSubs
 8  1 17  17 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 279.8  2.0   0  0.00  50.  1012.   2 NAD-SFC NoSubs
 8  1 17  17 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 278.8  2.0   0  0.00  56.  1012.   2 NAD-SFC NoSubs
 8  1 17  17 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 277.9  2.0   0  0.00  60.  1012.   2 NAD-SFC NoSubs
 8  1 17  17 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 277.2  2.0   0  0.00  63.  1013.   2 NAD-SFC NoSubs
 8  1 17  17 24   -1.1  0.069 -9.000 -9.000 -999.   44.     27.7  0.0400  0.72  1.00  0.50  79.0  15.0 276.8  2.0   0  0.00  66.  1013.   2 NAD-SFC NoSubs
 8  1 18  18  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 276.2  2.0   0  0.00  68.  1012.   2 NAD-SFC NoSubs
 8  1 18  18  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 275.8  2.0   0  0.00  69.  1012.   2 NAD-SFC NoSubs
 8  1 18  18  3   -1.3  0.074 -9.000 -9.000 -999.   49.     29.5  0.0800  0.72  1.00  0.50 329.0  15.0 275.4  2.0   0  0.00  69.  1012.   2 NAD-SFC NoSubs
 8  1 18  18  4   -1.3  0.076 -9.000 -9.000 -999.   50.     30.0  0.0950  0.72  1.00  0.50 333.0  15.0 275.1  2.0   0  0.00  70.  1012.   2 NAD-SFC NoSubs
 8  1 18  18  5   -1.3  0.076 -9.000 -9.000 -999.   50.     30.0  0.0950  0.72  1.00  0.50 345.0  15.0 274.9  2.0   0  0.00  70.  1013.   2 NAD-SFC NoSubs
 8  1 18  18  6   -1.3  0.076 -9.000 -9.000 -999.   50.     30.0  0.0950  0.72  1.00  0.50 342.0  15.0 274.6  2.0   0  0.00  71.  1013.   2 NAD-SFC NoSubs
 8  1 18  18  7   -1.3  0.075 -9.000 -9.000 -999.   49.     29.6  0.0800  0.72  1.00  0.50 319.0  15.0 274.2  2.0   0  0.00  72.  1013.   2 NAD-SFC NoSubs
 8  1 18  18  8   -1.0  0.066 -9.000 -9.000 -999.   41.     26.6  0.0420  0.72  0.60  0.50 298.0  15.0 274.1  2.0   0  0.00  73.  1014.   2 NAD-SFC NoSubs
 8  1 18  18  9   17.4  0.068  0.295  0.011   53.   43.     -1.7  0.0800  0.72  0.33  0.50 313.0  15.0 276.2  2.0   0  0.00  63.  1014.   2 NAD-SFC NoSubs
 8  1 18  18 10   59.8  0.124  0.638  0.007  157.  104.     -2.9  0.0800  0.72  0.24  1.00 312.0  15.0 278.8  2.0   0  0.00  55.  1014.   2 NAD-SFC NoSubs
 8  1 18  18 11   90.8  0.130  0.949  0.008  340.  113.     -2.2  0.0800  0.72  0.21  1.00 317.0  15.0 280.8  2.0   0  0.00  49.  1013.   2 NAD-SFC NoSubs
 8  1 18  18 12  107.7  0.133  1.148  0.009  507.  116.     -2.0  0.0800  0.72  0.20  1.00 317.0  15.0 282.5  2.0   0  0.00  42.  1013.   2 NAD-SFC NoSubs
 8  1 18  18 13  109.8  0.137  1.246  0.009  636.  122.     -2.1  0.0950  0.72  0.20  1.00 331.0  15.0 283.6  2.0   0  0.00  39.  1012.   2 NAD-SFC NoSubs
 8  1 18  18 14   97.1  0.135  1.237  0.009  703.  119.     -2.3  0.0950  0.72  0.21  1.00 355.0  15.0 284.4  2.0   0  0.00  39.  1012.   2 NAD-SFC NoSubs
 8  1 18  18 15   70.0  0.170  1.129  0.008  742.  169.     -6.4  0.0960  0.72  0.23  1.50   1.0  15.0 284.8  2.0   0  0.00  39.  1012.   2 NAD-SFC NoSubs
 8  1 18  18 16   30.4  0.157  0.861  0.008  758.  149.    -11.5  0.0960  0.72  0.30  1.50  25.0  15.0 284.6  2.0   0  0.00  43.  1012.   2 NAD-SFC NoSubs
 8  1 18  18 17   -7.4  0.142 -9.000 -9.000 -999.  128.     34.6  0.0650  0.72  0.50  2.10  39.0  15.0 283.9  2.0   0  0.00  46.  1012.   2 NAD-SFC NoSubs
 8  1 18  18 18   -4.4  0.094 -9.000 -9.000 -999.   70.     17.2  0.0400  0.72  1.00  1.50  69.0  15.0 282.9  2.0   0  0.00  50.  1013.   2 NAD-SFC NoSubs
 8  1 18  18 19   -1.0  0.067 -9.000 -9.000 -999.   41.     26.6  0.0280  0.72  1.00  0.50 125.0  15.0 281.8  2.0   0  0.00  55.  1013.   2 NAD-SFC NoSubs
 8  1 18  18 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 280.5  2.0   0  0.00  61.  1014.   2 NAD-SFC NoSubs
 8  1 18  18 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 279.6  2.0   0  0.00  66.  1014.   2 NAD-SFC NoSubs
 8  1 18  18 22   -1.2  0.072 -9.000 -9.000 -999.   47.     28.9  0.0650  0.72  1.00  0.50  41.0  15.0 278.9  2.0   0  0.00  69.  1015.   2 NAD-SFC NoSubs
 8  1 18  18 23   -1.2  0.073 -9.000 -9.000 -999.   47.     28.9  0.0650  0.72  1.00  0.50  53.0  15.0 278.2  2.0   0  0.00  71.  1015.   2 NAD-SFC NoSubs
 8  1 18  18 24   -2.8  0.083 -9.000 -9.000 -999.   58.     19.1  0.0650  0.72  1.00  1.00  36.0  15.0 277.6  2.0   0  0.00  73.  1015.   2 NAD-SFC NoSubs
 8  1 19  19  1   -3.0  0.088 -9.000 -9.000 -999.   62.     20.1  0.0960  0.72  1.00  1.00  17.0  15.0 277.1  2.0   0  0.00  74.  1015.   2 NAD-SFC NoSubs
 8  1 19  19  2   -5.6  0.109 -9.000 -9.000 -999.   86.     20.7  0.0960  0.72  1.00  1.50   7.0  15.0 276.8  2.0   0  0.00  75.  1015.   2 NAD-SFC NoSubs
 8  1 19  19  3   -5.6  0.109 -9.000 -9.000 -999.   86.     20.6  0.0960  0.72  1.00  1.50  15.0  15.0 276.4  2.0   0  0.00  75.  1015.   2 NAD-SFC NoSubs
 8  1 19  19  4   -5.7  0.109 -9.000 -9.000 -999.   86.     20.6  0.0960  0.72  1.00  1.50  16.0  15.0 276.2  2.0   0  0.00  76.  1015.   2 NAD-SFC NoSubs
 8  1 19  19  5   -5.7  0.109 -9.000 -9.000 -999.   86.     20.6  0.0960  0.72  1.00  1.50  23.0  15.0 276.0  2.0   0  0.00  77.  1015.   2 NAD-SFC NoSubs
 8  1 19  19  6   -5.7  0.109 -9.000 -9.000 -999.   86.     20.6  0.0960  0.72  1.00  1.50   8.0  15.0 275.8  2.0   0  0.00  78.  1016.   2 NAD-SFC NoSubs
 8  1 19  19  7   -3.0  0.088 -9.000 -9.000 -999.   62.     20.1  0.0960  0.72  1.00  1.00   2.0  15.0 275.4  2.0   0  0.00  79.  1016.   2 NAD-SFC NoSubs
 8  1 19  19  8   -1.1  0.070 -9.000 -9.000 -999.   45.     28.2  0.0800  0.72  0.59  0.50 312.0  15.0 275.1  2.0   0  0.00  80.  1016.   2 NAD-SFC NoSubs
 8  1 19  19  9   18.0  0.097  0.297  0.012   52.   73.     -4.6  0.0420  0.72  0.33  1.00 297.0  15.0 277.2  2.0   0  0.00  71.  1016.   2 NAD-SFC NoSubs
 8  1 19  19 10   60.6  0.162  0.631  0.010  150.  157.     -6.4  0.0800  0.72  0.24  1.50 301.0  15.0 279.6  2.0   0  0.00  63.  1016.   2 NAD-SFC NoSubs
 8  1 19  19 11   91.6  0.170  0.910  0.009  298.  168.     -4.8  0.0800  0.72  0.21  1.50 324.0  15.0 281.5  2.0   0  0.00  57.  1016.   2 NAD-SFC NoSubs
 8  1 19  19 12  108.7  0.133  1.088  0.008  428.  116.     -1.9  0.0800  0.72  0.20  1.00 319.0  15.0 283.4  2.0   0  0.00  51.  1014.   2 NAD-SFC NoSubs
 8  1 19  19 13  111.0  0.179  1.172  0.007  525.  182.     -4.7  0.0950  0.72  0.20  1.50 330.0  15.0 284.9  2.0   0  0.00  44.  1013.   2 NAD-SFC NoSubs
 8  1 19  19 14   98.4  0.177  1.176  0.006  597.  178.     -5.1  0.0950  0.72  0.21  1.50 330.0  15.0 285.6  2.0   0  0.00  42.  1013.   2 NAD-SFC NoSubs
 8  1 19  19 15   71.3  0.170  1.084  0.006  645.  169.     -6.3  0.0950  0.72  0.23  1.50 351.0  15.0 285.9  2.0   0  0.00  42.  1012.   2 NAD-SFC NoSubs
 8  1 19  19 16   31.6  0.157  0.837  0.006  669.  150.    -11.1  0.0960  0.72  0.30  1.50  13.0  15.0 285.8  2.0   0  0.00  46.  1011.   2 NAD-SFC NoSubs
 8  1 19  19 17   -3.6  0.099 -9.000 -9.000 -999.   75.     24.3  0.0650  0.72  0.49  1.50  44.0  15.0 285.0  2.0   0  0.00  49.  1011.   2 NAD-SFC NoSubs
 8  1 19  19 18   -1.1  0.069 -9.000 -9.000 -999.   43.     27.4  0.0400  0.72  1.00  0.50  68.0  15.0 283.8  2.0   0  0.00  55.  1011.   2 NAD-SFC NoSubs
 8  1 19  19 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 282.4  2.0   0  0.00  61.  1010.   2 NAD-SFC NoSubs
 8  1 19  19 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 281.1  2.0   0  0.00  67.  1010.   2 NAD-SFC NoSubs
 8  1 19  19 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 280.1  2.0   0  0.00  72.  1010.   2 NAD-SFC NoSubs
 8  1 19  19 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 279.2  2.0   0  0.00  76.  1010.   2 NAD-SFC NoSubs
 8  1 19  19 23   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0400  0.72  1.00  0.50  78.0  15.0 278.5  2.0   0  0.00  78.  1010.   2 NAD-SFC NoSubs
 8  1 19  19 24   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0400  0.72  1.00  0.50  86.0  15.0 277.9  2.0   0  0.00  80.  1009.   2 NAD-SFC NoSubs
 8  1 20  20  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 277.2  2.0   0  0.00  82.  1009.   2 NAD-SFC NoSubs
 8  1 20  20  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 276.8  2.0   0  0.00  83.  1009.   2 NAD-SFC NoSubs
 8  1 20  20  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 276.2  2.0   0  0.00  85.  1009.   2 NAD-SFC NoSubs
 8  1 20  20  4   -1.0  0.068 -9.000 -9.000 -999.   43.     27.1  0.0310  0.72  1.00  0.50 114.0  15.0 275.9  2.0   0  0.00  85.  1008.   2 NAD-SFC NoSubs
 8  1 20  20  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 275.6  2.0   0  0.00  86.  1008.   2 NAD-SFC NoSubs
 8  1 20  20  6   -1.1  0.070 -9.000 -9.000 -999.   44.     27.7  0.0400  0.72  1.00  0.50  83.0  15.0 275.2  2.0   0  0.00  87.  1008.   2 NAD-SFC NoSubs
 8  1 20  20  7   -1.0  0.068 -9.000 -9.000 -999.   43.     27.1  0.0310  0.72  1.00  0.50  95.0  15.0 274.8  2.0   0  0.00  88.  1007.   2 NAD-SFC NoSubs
 8  1 20  20  8   -1.0  0.066 -9.000 -9.000 -999.   40.     26.4  0.0400  0.72  0.59  0.50  88.0  15.0 274.6  2.0   0  0.00  88.  1007.   2 NAD-SFC NoSubs
 8  1 20  20  9   18.5 -9.000 -9.000 -9.000   49. -999. -99999.0  0.0471  0.72  0.33  0.00   0.0  15.0 276.9  2.0   0  0.00  79.  1007.   2 NAD-SFC NoSubs
 8  1 20  20 10   61.4 -9.000 -9.000 -9.000  160. -999. -99999.0  0.0471  0.72  0.24  0.00   0.0  15.0 280.6  2.0   0  0.00  60.  1007.   2 NAD-SFC NoSubs
 8  1 20  20 11   92.6 -9.000 -9.000 -9.000  316. -999. -99999.0  0.0471  0.72  0.21  0.00   0.0  15.0 282.8  2.0   0  0.00  55.  1006.   2 NAD-SFC NoSubs
 8  1 20  20 12  109.8 -9.000 -9.000 -9.000  445. -999. -99999.0  0.0471  0.72  0.20  0.00   0.0  15.0 284.4  2.0   0  0.00  48.  1005.   2 NAD-SFC NoSubs
 8  1 20  20 13  112.1  0.088  1.195  0.007  546.   62.     -1.0  0.0800  0.72  0.20  0.50 323.0  15.0 285.5  2.0   0  0.00  44.  1005.   2 NAD-SFC NoSubs
 8  1 20  20 14   99.5  0.177  1.200  0.006  622.  179.     -5.0  0.0950  0.72  0.21  1.50 330.0  15.0 286.2  2.0   0  0.00  41.  1004.   2 NAD-SFC NoSubs
 8  1 20  20 15   72.4  0.253  1.110  0.005  677.  306.    -20.1  0.0950  0.72  0.23  2.60 342.0  15.0 286.2  2.0   0  0.00  41.  1004.   2 NAD-SFC NoSubs
 8  1 20  20 16   34.4  0.275  0.880  0.005  709.  347.    -54.2  0.0950  0.72  0.30  3.10 353.0  15.0 286.9  2.0   0  0.00  58.  1003.   3 NAD-SFC NoSubs
 8  1 20  20 17  -13.7  0.272 -9.000 -9.000 -999.  341.    131.9  0.0950  0.72  0.49  3.60 351.0  15.0 285.9  2.0   0  0.00  63.  1003.   3 NAD-SFC NoSubs
 8  1 20  20 18  -31.4  0.307 -9.000 -9.000 -999.  409.     82.7  0.0950  0.72  1.00  4.10 339.0  15.0 284.4  2.0   0  0.00  69.  1003.   4 NAD-SFC NoSubs
 8  1 20  20 19  -34.4  0.334 -9.000 -9.000 -999.  464.     97.2  0.0800  0.72  1.00  4.60 327.0  15.0 282.6  2.0   0  0.00  78.  1004.   4 NAD-SFC NoSubs
 8  1 20  20 20  -26.6  0.348 -9.000 -9.000 -999.  493.    142.2  0.0950  0.72  1.00  4.60 335.0  15.0 281.2  2.0   0  0.00  86.  1005.   8 NAD-SFC NoSubs
 8  1 20  20 21  -19.1  0.338 -9.000 -9.000 -999.  473.    182.3  0.0800  0.72  1.00  4.60 329.0  15.0 280.9  2.0   0  0.00  87.  1005.  10 NAD-SFC NoSubs
 8  1 20  20 22  -15.3  0.272 -9.000 -9.000 -999.  342.    117.3  0.0950  0.72  1.00  3.60 344.0  15.0 280.6  2.0   0  0.00  88.  1006.  10 NAD-SFC NoSubs
 8  1 20  20 23   -9.0  0.146 -9.000 -9.000 -999.  144.     31.1  0.0800  0.72  1.00  2.10 329.0  15.0 280.5  2.0   0  0.00  88.  1006.   7 NAD-SFC NoSubs
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 8  1 20  20 24   -5.1  0.105 -9.000 -9.000 -999.   81.     20.2  0.0800  0.72  1.00  1.50  318.0  15.0  280.5  2.0   0  0.00   87.  1006.    4 NAD-SFC NoSubs
 8  1 21  21  1   -5.2  0.105 -9.000 -9.000 -999.   82.     20.0  0.0800  0.72  1.00  1.50  309.0  15.0  280.4  2.0   0  0.00   88.  1007.    3 NAD-SFC NoSubs
 8  1 21  21  2   -5.2  0.105 -9.000 -9.000 -999.   82.     20.0  0.0800  0.72  1.00  1.50  310.0  15.0  280.0  2.0   0  0.00   89.  1007.    3 NAD-SFC NoSubs
 8  1 21  21  3  -10.0  0.145 -9.000 -9.000 -999.  132.     27.1  0.0800  0.72  1.00  2.10  309.0  15.0  279.4  2.0   0  0.00   89.  1007.    3 NAD-SFC NoSubs
 8  1 21  21  4  -15.7  0.182 -9.000 -9.000 -999.  187.     34.7  0.0800  0.72  1.00  2.60  300.0  15.0  278.9  2.0   0  0.00   89.  1008.    3 NAD-SFC NoSubs
 8  1 21  21  5  -18.7  0.195 -9.000 -9.000 -999.  206.     35.5  0.0420  0.72  1.00  3.10  287.0  15.0  278.2  2.0   0  0.00   86.  1008.    3 NAD-SFC NoSubs
 8  1 21  21  6  -18.7  0.195 -9.000 -9.000 -999.  206.     35.4  0.0420  0.72  1.00  3.10  291.0  15.0  277.9  2.0   0  0.00   85.  1008.    3 NAD-SFC NoSubs
 8  1 21  21  7   -8.3  0.128 -9.000 -9.000 -999.  111.     22.6  0.0420  0.72  1.00  2.10  289.0  15.0  277.8  2.0   0  0.00   84.  1009.    3 NAD-SFC NoSubs
 8  1 21  21  8   -4.0  0.093 -9.000 -9.000 -999.   68.     18.1  0.0420  0.72  0.59  1.50  277.0  15.0  277.8  2.0   0  0.00   84.  1009.    3 NAD-SFC NoSubs
 8  1 21  21  9   20.8 -9.000 -9.000 -9.000  259. -999. -99999.0  0.0471  0.72  0.33  0.00    0.0  15.0  278.6  2.0   0  0.00   79.  1009.    3 NAD-SFC NoSubs
 8  1 21  21 10   63.1  0.065  0.954  0.005  496.   40.     -1.0  0.0240  0.72  0.24  0.50  170.0  15.0  279.9  2.0   0  0.00   74.  1009.    3 NAD-SFC NoSubs
 8  1 21  21 11   93.0  0.106  1.223  0.006  708.   83.     -1.1  0.0240  0.72  0.21  1.00  172.0  15.0  280.8  2.0   0  0.00   70.  1009.    2 NAD-SFC NoSubs
 8  1 21  21 12  110.0  0.069  1.378  0.007  855.   44.     -1.0  0.0220  0.72  0.20  0.50  185.0  15.0  281.8  2.0   0  0.00   64.  1008.    2 NAD-SFC NoSubs
 8  1 21  21 13  112.3 -9.000 -9.000 -9.000  978. -999. -99999.0  0.0471  0.72  0.20  0.00    0.0  15.0  282.8  2.0   0  0.00   57.  1008.    2 NAD-SFC NoSubs
 8  1 21  21 14   99.8 -9.000 -9.000 -9.000 1033. -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0  283.5  2.0   0  0.00   53.  1007.    2 NAD-SFC NoSubs
 8  1 21  21 15   72.9 -9.000 -9.000 -9.000 1070. -999. -99999.0  0.0471  0.72  0.23  0.00    0.0  15.0  283.9  2.0   0  0.00   50.  1007.    2 NAD-SFC NoSubs
 8  1 21  21 16   34.6  0.159  1.016  0.007 1088.  152.    -10.4  0.0960  0.72  0.29  1.50   28.0  15.0  283.9  2.0   0  0.00   50.  1007.    3 NAD-SFC NoSubs
 8  1 21  21 17   -8.9  0.180 -9.000 -9.000 -999.  183.     58.8  0.0650  0.72  0.48  2.60   38.0  15.0  283.4  2.0   0  0.00   54.  1007.    3 NAD-SFC NoSubs
 8  1 21  21 18  -21.1  0.211 -9.000 -9.000 -999.  233.     40.4  0.0650  0.72  1.00  3.10   54.0  15.0  282.5  2.0   0  0.00   58.  1008.    3 NAD-SFC NoSubs
 8  1 21  21 19   -8.0  0.127 -9.000 -9.000 -999.  111.     23.0  0.0400  0.72  1.00  2.10   66.0  15.0  281.5  2.0   0  0.00   63.  1008.    4 NAD-SFC NoSubs
 8  1 21  21 20   -4.0  0.090 -9.000 -9.000 -999.   65.     16.6  0.0310  0.72  1.00  1.50   99.0  15.0  280.8  2.0   0  0.00   66.  1009.    4 NAD-SFC NoSubs
 8  1 21  21 21   -4.0  0.090 -9.000 -9.000 -999.   65.     16.5  0.0310  0.72  1.00  1.50  116.0  15.0  280.0  2.0   0  0.00   68.  1009.    4 NAD-SFC NoSubs
 8  1 21  21 22   -7.5  0.120 -9.000 -9.000 -999.   99.     20.5  0.0280  0.72  1.00  2.10  127.0  15.0  279.5  2.0   0  0.00   69.  1009.    3 NAD-SFC NoSubs
 8  1 21  21 23  -16.8  0.181 -9.000 -9.000 -999.  186.     32.0  0.0280  0.72  1.00  3.10  128.0  15.0  279.0  2.0   0  0.00   69.  1009.    3 NAD-SFC NoSubs
 8  1 21  21 24  -22.9  0.213 -9.000 -9.000 -999.  236.     37.9  0.0280  0.72  1.00  3.60  129.0  15.0  278.6  2.0   0  0.00   67.  1009.    3 NAD-SFC NoSubs
 8  1 22  22  1  -16.8  0.181 -9.000 -9.000 -999.  186.     31.9  0.0280  0.72  1.00  3.10  132.0  15.0  278.4  2.0   0  0.00   65.  1009.    3 NAD-SFC NoSubs
 8  1 22  22  2   -7.5  0.120 -9.000 -9.000 -999.  100.     20.5  0.0280  0.72  1.00  2.10  131.0  15.0  278.2  2.0   0  0.00   64.  1009.    3 NAD-SFC NoSubs
 8  1 22  22  3   -2.2  0.074 -9.000 -9.000 -999.   49.     16.9  0.0240  0.72  1.00  1.00  150.0  15.0  278.2  2.0   0  0.00   65.  1010.    3 NAD-SFC NoSubs
 8  1 22  22  4   -3.9  0.088 -9.000 -9.000 -999.   63.     15.7  0.0240  0.72  1.00  1.50  164.0  15.0  278.4  2.0   0  0.00   64.  1010.    3 NAD-SFC NoSubs
 8  1 22  22  5  -11.2  0.146 -9.000 -9.000 -999.  134.     25.0  0.0240  0.72  1.00  2.60  165.0  15.0  278.5  2.0   0  0.00   64.  1011.    3 NAD-SFC NoSubs
 8  1 22  22  6  -11.2  0.146 -9.000 -9.000 -999.  134.     25.0  0.0240  0.72  1.00  2.60  162.0  15.0  278.5  2.0   0  0.00   63.  1011.    3 NAD-SFC NoSubs
 8  1 22  22  7  -16.9  0.181 -9.000 -9.000 -999.  185.     31.9  0.0280  0.72  1.00  3.10  147.0  15.0  278.2  2.0   0  0.00   63.  1011.    3 NAD-SFC NoSubs
 8  1 22  22  8  -15.2  0.183 -9.000 -9.000 -999.  188.     36.4  0.0280  0.72  0.58  3.10  142.0  15.0  278.2  2.0   0  0.00   63.  1012.    4 NAD-SFC NoSubs
 8  1 22  22  9   22.8  0.310  0.356  0.005   71.  413.   -117.5  0.0280  0.72  0.33  4.60  128.0  15.0  280.8  2.0   0  0.00   54.  1012.    4 NAD-SFC NoSubs
 8  1 22  22 10   64.7  0.354  0.817  0.005  304.  506.    -61.9  0.0280  0.72  0.24  5.10  144.0  15.0  283.8  2.0   0  0.00   46.  1012.    4 NAD-SFC NoSubs
 8  1 22  22 11   95.1  0.302  1.173  0.005  612.  399.    -26.0  0.0280  0.72  0.21  4.10  148.0  15.0  285.2  2.0   0  0.00   44.  1011.    4 NAD-SFC NoSubs
 8  1 22  22 12  111.8  0.240  1.332  0.005  762.  284.    -11.1  0.0240  0.72  0.20  3.10  163.0  15.0  286.2  2.0   0  0.00   43.  1010.    4 NAD-SFC NoSubs
 8  1 22  22 13  114.2  0.180  1.406  0.005  878.  184.     -4.6  0.0240  0.72  0.20  2.10  167.0  15.0  287.1  2.0   0  0.00   41.  1009.    4 NAD-SFC NoSubs
 8  1 22  22 14  102.7  0.141  1.404  0.005  970.  127.     -2.4  0.0240  0.72  0.21  1.50  167.0  15.0  287.8  2.0   0  0.00   41.  1009.    3 NAD-SFC NoSubs
 8  1 22  22 15   76.1  0.171  1.304  0.005 1050.  170.     -5.9  0.0220  0.72  0.23  2.10  195.0  15.0  288.0  2.0   0  0.00   41.  1008.    3 NAD-SFC NoSubs
 8  1 22  22 16   37.4  0.124  1.041  0.005 1086.  105.     -4.6  0.0200  0.72  0.29  1.50  264.0  15.0  287.8  2.0   0  0.00   45.  1008.    4 NAD-SFC NoSubs
 8  1 22  22 17  -14.4  0.394 -9.000 -9.000 -999.  594.    383.4  0.0950  0.72  0.48  5.10  339.0  15.0  285.9  2.0   0  0.00   57.  1008.    4 NAD-SFC NoSubs
 8  1 22  22 18  -21.9  0.391 -9.000 -9.000 -999.  586.    244.7  0.0950  0.72  1.00  5.10  356.0  15.0  283.2  2.0   0  0.51   71.  1009.   10 NAD-SFC NoSubs
 8  1 22  22 19  -17.5  0.311 -9.000 -9.000 -999.  420.    154.7  0.0950  0.72  1.00  4.10  355.0  15.0  282.2  2.0   0  0.51   76.  1009.   10 NAD-SFC NoSubs
 8  1 22  22 20  -15.3  0.272 -9.000 -9.000 -999.  341.    117.8  0.0950  0.72  1.00  3.60  337.0  15.0  281.8  2.0   0  0.25   79.  1009.   10 NAD-SFC NoSubs
 8  1 22  22 21  -14.1  0.192 -9.000 -9.000 -999.  204.     44.8  0.0950  0.72  1.00  2.60  340.0  15.0  281.5  2.0   0  0.00   81.  1009.    8 NAD-SFC NoSubs
 8  1 22  22 22  -14.1  0.192 -9.000 -9.000 -999.  201.     44.8  0.0950  0.72  1.00  2.60  345.0  15.0  281.2  2.0   0  0.00   83.  1009.    8 NAD-SFC NoSubs
 8  1 22  22 23  -14.1  0.192 -9.000 -9.000 -999.  201.     44.8  0.0950  0.72  1.00  2.60  341.0  15.0  281.1  2.0   0  0.00   85.  1009.    8 NAD-SFC NoSubs
 8  1 22  22 24   -9.1  0.152 -9.000 -9.000 -999.  143.     34.9  0.0950  0.72  1.00  2.10  333.0  15.0  281.1  2.0   0  0.00   86.  1008.    8 NAD-SFC NoSubs
 8  1 23  23  1   -3.7  0.103 -9.000 -9.000 -999.   80.     26.8  0.0800  0.72  1.00  1.50  320.0  15.0  281.2  2.0   0  0.00   83.  1008.   10 NAD-SFC NoSubs
 8  1 23  23  2   -3.1  0.091 -9.000 -9.000 -999.   66.     22.5  0.0420  0.72  1.00  1.50  297.0  15.0  281.4  2.0   0  0.00   81.  1008.   10 NAD-SFC NoSubs
 8  1 23  23  3   -7.4  0.149 -9.000 -9.000 -999.  137.     39.7  0.0800  0.72  1.00  2.10  320.0  15.0  281.2  2.0   0  0.00   82.  1008.   10 NAD-SFC NoSubs
 8  1 23  23  4  -15.3  0.272 -9.000 -9.000 -999.  340.    117.5  0.0950  0.72  1.00  3.60  330.0  15.0  281.0  2.0   0  0.00   85.  1008.   10 NAD-SFC NoSubs
 8  1 23  23  5  -15.4  0.272 -9.000 -9.000 -999.  340.    117.4  0.0950  0.72  1.00  3.60  339.0  15.0  280.8  2.0   0  0.00   87.  1008.   10 NAD-SFC NoSubs
 8  1 23  23  6  -13.1  0.232 -9.000 -9.000 -999.  270.     85.9  0.0950  0.72  1.00  3.10  341.0  15.0  280.5  2.0   0  0.00   90.  1008.   10 NAD-SFC NoSubs
 8  1 23  23  7  -13.2  0.232 -9.000 -9.000 -999.  269.     85.8  0.0950  0.72  1.00  3.10  349.0  15.0  280.2  2.0   0  0.25   93.  1008.   10 NAD-SFC NoSubs
 8  1 23  23  8  -12.1  0.233 -9.000 -9.000 -999.  270.     94.0  0.0950  0.72  0.58  3.10  347.0  15.0  280.2  2.0   0  0.00   94.  1008.   10 NAD-SFC NoSubs
 8  1 23  23  9    1.1  0.248  0.086  0.005   20.  296. -1248.2  0.0960  0.72  0.32  3.10    5.0  15.0  280.5  2.0   0  0.00   93.  1008.   10 NAD-SFC NoSubs
 8  1 23  23 10   11.9  0.188  0.305  0.005   85.  196.    -49.8  0.0950  0.72  0.24  2.10  339.0  15.0  281.2  2.0   0  0.00   88.  1007.   10 NAD-SFC NoSubs
 8  1 23  23 11   20.1  0.056  0.466  0.005  180.   53.     -1.0  0.0220  0.72  0.21  0.50  216.0  15.0  282.9  2.0   0  0.00   73.  1007.   10 NAD-SFC NoSubs
 8  1 23  23 12   76.2  0.298  0.923  0.005  369.  390.    -31.0  0.0280  0.72  0.20  4.10  144.0  15.0  284.9  2.0   0  0.00   60.  1005.    8 NAD-SFC NoSubs
 8  1 23  23 13   25.4  0.311  0.694  0.005  471.  416.   -106.0  0.0280  0.72  0.20  4.60  140.0  15.0  284.9  2.0   0  0.25   65.  1004.   10 NAD-SFC NoSubs
 8  1 23  23 14   22.1  0.190  0.709  0.005  578.  207.    -27.9  0.0280  0.72  0.21  2.60  149.0  15.0  284.4  2.0   0  0.76   72.  1004.   10 NAD-SFC NoSubs
 8  1 23  23 15   15.2  0.128  0.649  0.005  642.  111.    -12.4  0.0420  0.72  0.23  1.50  290.0  15.0  283.9  2.0   0  0.76   77.  1003.   10 NAD-SFC NoSubs
 8  1 23  23 16    5.2  0.216  0.457  0.005  660.  241.   -174.8  0.0950  0.72  0.29  2.60  353.0  15.0  283.5  2.0   0  0.25   81.  1002.   10 NAD-SFC NoSubs
 8  1 23  23 17   -4.0  0.183 -9.000 -9.000 -999.  188.    136.9  0.0650  0.72  0.47  2.60   52.0  15.0  283.4  2.0   0  0.00   80.  1001.    7 NAD-SFC NoSubs
 8  1 23  23 18  -10.6  0.154 -9.000 -9.000 -999.  145.     30.9  0.0310  0.72  1.00  2.60  115.0  15.0  283.2  2.0   0  0.00   76.  1001.    7 NAD-SFC NoSubs
 8  1 23  23 19  -16.5  0.295 -9.000 -9.000 -999.  385.    139.5  0.0200  0.72  1.00  5.10  244.0  15.0  282.8  2.0   0  0.00   80.  1002.   10 NAD-SFC NoSubs
 8  1 23  23 20  -19.7  0.233 -9.000 -9.000 -999.  272.     57.4  0.0200  0.72  1.00  4.10  261.0  15.0  281.8  2.0   0  0.25   88.  1003.    7 NAD-SFC NoSubs
 8  1 23  23 21   -3.6  0.086 -9.000 -9.000 -999.   82.     15.7  0.0220  0.72  1.00  1.50  237.0  15.0  281.2  2.0   0  0.00   89.  1003.    5 NAD-SFC NoSubs
 8  1 23  23 22   -6.9  0.115 -9.000 -9.000 -999.   94.     19.8  0.0220  0.72  1.00  2.10  207.0  15.0  281.2  2.0   0  0.00   86.  1004.    4 NAD-SFC NoSubs
 8  1 23  23 23   -6.9  0.115 -9.000 -9.000 -999.   94.     19.8  0.0220  0.72  1.00  2.10  187.0  15.0  281.2  2.0   0  0.00   81.  1004.    4 NAD-SFC NoSubs
 8  1 23  23 24   -7.0  0.117 -9.000 -9.000 -999.   96.     20.2  0.0240  0.72  1.00  2.10  160.0  15.0  281.2  2.0   0  0.00   78.  1004.    4 NAD-SFC NoSubs
 8  1 24  24  1  -11.4  0.150 -9.000 -9.000 -999.  140.     26.7  0.0280  0.72  1.00  2.60  136.0  15.0  281.2  2.0   0  0.00   78.  1004.    4 NAD-SFC NoSubs
 8  1 24  24  2  -21.0  0.214 -9.000 -9.000 -999.  237.     41.6  0.0280  0.72  1.00  3.60  139.0  15.0  281.0  2.0   0  0.00   82.  1004.    5 NAD-SFC NoSubs
 8  1 24  24  3  -22.7  0.245 -9.000 -9.000 -999.  292.     58.4  0.0280  0.72  1.00  4.10  147.0  15.0  280.8  2.0   0  0.25   87.  1004.    6 NAD-SFC NoSubs
 8  1 24  24  4  -20.9  0.246 -9.000 -9.000 -999.  293.     63.7  0.0280  0.72  1.00  4.10  138.0  15.0  280.6  2.0   0  0.25   88.  1004.    7 NAD-SFC NoSubs
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 8  1 24  24  5 -19.2 0.251 -9.000 -9.000 -999.  301.    73.5 0.0310 0.72 1.00 4.10 119.0 15.0 280.6 2.0 0 0.25 87. 1004.  8 NAD-SFC NoSubs
 8  1 24  24  6 -21.1 0.214 -9.000 -9.000 -999.  237.    41.5 0.0280 0.72 1.00 3.60 122.0 15.0 280.8 2.0 0 0.51 82. 1004.  5 NAD-SFC NoSubs
 8  1 24  24  7 -22.1 0.213 -9.000 -9.000 -999.  237.    39.4 0.0280 0.72 1.00 3.60 127.0 15.0 280.8 2.0 0 0.51 76. 1004.  4 NAD-SFC NoSubs
 8  1 24  24  8 -21.6 0.246 -9.000 -9.000 -999.  292.    61.5 0.0280 0.72 0.58 4.10 143.0 15.0 280.6 2.0 0 0.00 72. 1004.  3 NAD-SFC NoSubs
 8  1 24  24  9  23.2 0.303  0.501  0.005  194.  400. -107.2 0.0240 0.72 0.32 4.60 168.0 15.0 282.2 2.0 0 0.00 61. 1005.  3 NAD-SFC NoSubs
 8  1 24  24 10  66.0 0.342  0.909  0.005  407.  481.   -54.4 0.0220 0.72 0.24 5.10 194.0 15.0 283.9 2.0 0 0.00 51. 1004.  3 NAD-SFC NoSubs
 8  1 24  24 11  97.2 0.292  1.389  0.005  987.  380.   -22.9 0.0220 0.72 0.21 4.10 187.0 15.0 285.1 2.0 0 0.00 44. 1004.  3 NAD-SFC NoSubs
 8  1 24  24 12 114.4 0.270  1.518  0.005 1096.  337.   -15.4 0.0240 0.72 0.20 3.60 178.0 15.0 285.9 2.0 0 0.00 39. 1003.  3 NAD-SFC NoSubs
 8  1 24  24 13 116.8 0.299  1.574  0.005 1196.  393.   -20.5 0.0240 0.72 0.20 4.10 179.0 15.0 286.4 2.0 0 0.00 37. 1003.  3 NAD-SFC NoSubs
 8  1 24  24 14 104.3 0.293  1.551  0.005 1279.  381.   -21.6 0.0220 0.72 0.21 4.10 187.0 15.0 286.2 2.0 0 0.00 39. 1002.  3 NAD-SFC NoSubs
 8  1 24  24 15  77.7 0.230  1.426  0.005 1337.  267.   -14.1 0.0220 0.72 0.23 3.10 203.0 15.0 286.2 2.0 0 0.00 45. 1002.  3 NAD-SFC NoSubs
 8  1 24  24 16  38.2 0.164  1.137  0.005 1375.  160.   -10.3 0.0240 0.72 0.29 2.10 178.0 15.0 285.8 2.0 0 0.00 51. 1001.  3 NAD-SFC NoSubs
 8  1 24  24 17  -7.7 0.213 -9.000 -9.000 -999.  236.   111.9 0.0240 0.72 0.46 3.60 178.0 15.0 285.2 2.0 0 0.00 53. 1001.  3 NAD-SFC NoSubs
 8  1 24  24 18 -28.1 0.265 -9.000 -9.000 -999.  328.    59.4 0.0220 0.72 1.00 4.60 192.0 15.0 284.2 2.0 0 0.00 58. 1002.  3 NAD-SFC NoSubs
 8  1 24  24 19 -25.4 0.239 -9.000 -9.000 -999.  280.    47.9 0.0240 0.72 1.00 4.10 152.0 15.0 283.8 2.0 0 0.00 60. 1003.  3 NAD-SFC NoSubs
 8  1 24  24 20 -29.4 0.276 -9.000 -9.000 -999.  348.    63.9 0.0280 0.72 1.00 4.60 132.0 15.0 283.0 2.0 0 0.00 63. 1003.  3 NAD-SFC NoSubs
 8  1 24  24 21 -29.5 0.276 -9.000 -9.000 -999.  348.    63.9 0.0280 0.72 1.00 4.60 135.0 15.0 282.8 2.0 0 0.00 64. 1004.  3 NAD-SFC NoSubs
 8  1 24  24 22 -29.4 0.276 -9.000 -9.000 -999.  348.    63.9 0.0280 0.72 1.00 4.60 135.0 15.0 282.9 2.0 0 0.00 66. 1004.  3 NAD-SFC NoSubs
 8  1 24  24 23 -31.6 0.308 -9.000 -9.000 -999.  409.    82.4 0.0280 0.72 1.00 5.10 133.0 15.0 282.9 2.0 0 0.00 68. 1004.  4 NAD-SFC NoSubs
 8  1 24  24 24 -38.7 0.377 -9.000 -9.000 -999.  555.   123.7 0.0280 0.72 1.00 6.20 129.0 15.0 282.9 2.0 0 0.00 71. 1004.  4 NAD-SFC NoSubs
 8  1 25  25  1 -41.9 0.409 -9.000 -9.000 -999.  626.   145.5 0.0280 0.72 1.00 6.70 130.0 15.0 283.0 2.0 0 0.00 72. 1003.  4 NAD-SFC NoSubs
 8  1 25  25  2 -45.2 0.440 -9.000 -9.000 -999.  701.   169.1 0.0280 0.72 1.00 7.20 132.0 15.0 283.1 2.0 0 0.00 72. 1003.  4 NAD-SFC NoSubs
 8  1 25  25  3 -43.5 0.408 -9.000 -9.000 -999.  627.   140.0 0.0280 0.72 1.00 6.70 134.0 15.0 283.2 2.0 0 0.00 71. 1003.  3 NAD-SFC NoSubs
 8  1 25  25  4 -46.8 0.440 -9.000 -9.000 -999.  700.   162.9 0.0280 0.72 1.00 7.20 135.0 15.0 283.5 2.0 0 0.00 70. 1003.  3 NAD-SFC NoSubs
 8  1 25  25  5 -50.2 0.472 -9.000 -9.000 -999.  778.   187.4 0.0280 0.72 1.00 7.70 131.0 15.0 283.6 2.0 0 0.00 70. 1003.  3 NAD-SFC NoSubs
 8  1 25  25  6 -50.2 0.472 -9.000 -9.000 -999.  778.   187.5 0.0280 0.72 1.00 7.70 135.0 15.0 283.8 2.0 0 0.00 70. 1003.  3 NAD-SFC NoSubs
 8  1 25  25  7 -51.7 0.504 -9.000 -9.000 -999.  859.   222.3 0.0280 0.72 1.00 8.20 126.0 15.0 283.8 2.0 0 0.00 70. 1004.  4 NAD-SFC NoSubs
 8  1 25  25  8 -45.8 0.539 -9.000 -9.000 -999.  948.   305.5 0.0280 0.72 0.57 8.70 131.0 15.0 283.9 2.0 0 0.00 70. 1004.  3 NAD-SFC NoSubs
 8  1 25  25  9  24.4 0.561  0.397  0.005   92. 1008. -650.5 0.0280 0.72 0.32 8.70 134.0 15.0 284.4 2.0 0 0.00 68. 1005.  3 NAD-SFC NoSubs
 8  1 25  25 10  67.1 0.608  0.929  0.005  429. 1135. -299.7 0.0280 0.72 0.24 9.30 132.0 15.0 285.2 2.0 0 0.00 65. 1005.  3 NAD-SFC NoSubs
 8  1 25  25 11  98.4 0.644  1.215  0.005  654. 1237. -242.9 0.0280 0.72 0.21 9.80 141.0 15.0 286.2 2.0 0 0.00 63. 1005.  3 NAD-SFC NoSubs
 8  1 25  25 12 115.7 0.646  1.477  0.005 1001. 1247. -209.3 0.0280 0.72 0.20 9.80 138.0 15.0 287.2 2.0 0 0.00 61. 1005.  3 NAD-SFC NoSubs
 8  1 25  25 13 118.2 0.647  1.575  0.005 1187. 1248. -205.2 0.0280 0.72 0.20 9.80 143.0 15.0 287.8 2.0 0 0.00 60. 1005.  3 NAD-SFC NoSubs
 8  1 25  25 14 105.8 0.645  1.578  0.005 1332. 1243. -227.0 0.0280 0.72 0.20 9.80 142.0 15.0 287.8 2.0 0 0.00 60. 1005.  3 NAD-SFC NoSubs
 8  1 25  25 15  79.0 0.640  1.460  0.005 1415. 1231. -298.0 0.0280 0.72 0.23 9.80 142.0 15.0 287.2 2.0 0 0.00 63. 1005.  3 NAD-SFC NoSubs
 8  1 25  25 16  39.3 0.602  1.168  0.005 1452. 1125. -497.2 0.0280 0.72 0.28 9.30 140.0 15.0 286.2 2.0 0 0.00 67. 1005.  3 NAD-SFC NoSubs
 8  1 25  25 17 -17.6 0.548 -9.000 -9.000 -999.  977.   835.7 0.0280 0.72 0.46 8.70 136.0 15.0 285.5 2.0 0 0.00 69. 1006.  3 NAD-SFC NoSubs
 8  1 25  25 18 -53.5 0.504 -9.000 -9.000 -999.  862.   215.0 0.0280 0.72 1.00 8.20 141.0 15.0 285.2 2.0 0 0.00 70. 1007.  3 NAD-SFC NoSubs
 8  1 25  25 19 -50.2 0.472 -9.000 -9.000 -999.  780.   188.3 0.0280 0.72 1.00 7.70 141.0 15.0 284.9 2.0 0 0.00 70. 1008.  3 NAD-SFC NoSubs
 8  1 25  25 20 -46.8 0.440 -9.000 -9.000 -999.  702.   163.6 0.0280 0.72 1.00 7.20 140.0 15.0 284.8 2.0 0 0.00 70. 1008.  3 NAD-SFC NoSubs
 8  1 25  25 21 -40.1 0.377 -9.000 -9.000 -999.  558.   119.8 0.0280 0.72 1.00 6.20 138.0 15.0 284.8 2.0 0 0.00 69. 1009.  3 NAD-SFC NoSubs
 8  1 25  25 22 -40.2 0.377 -9.000 -9.000 -999.  555.   119.8 0.0280 0.72 1.00 6.20 130.0 15.0 284.6 2.0 0 0.00 68. 1010.  3 NAD-SFC NoSubs
 8  1 25  25 23 -36.8 0.345 -9.000 -9.000 -999.  487.   100.5 0.0280 0.72 1.00 5.70 127.0 15.0 284.6 2.0 0 0.00 67. 1010.  3 NAD-SFC NoSubs
 8  1 25  25 24 -40.2 0.377 -9.000 -9.000 -999.  554.   119.7 0.0280 0.72 1.00 6.20 130.0 15.0 284.5 2.0 0 0.00 66. 1010.  3 NAD-SFC NoSubs
 8  1 26  26  1 -40.2 0.377 -9.000 -9.000 -999.  555.   119.7 0.0280 0.72 1.00 6.20 132.0 15.0 284.4 2.0 0 0.00 66. 1010.  3 NAD-SFC NoSubs
 8  1 26  26  2 -44.7 0.408 -9.000 -9.000 -999.  625.   136.8 0.0280 0.72 1.00 6.70 135.0 15.0 284.1 2.0 0 0.00 67. 1010.  2 NAD-SFC NoSubs
 8  1 26  26  3 -44.8 0.408 -9.000 -9.000 -999.  626.   136.6 0.0280 0.72 1.00 6.70 128.0 15.0 283.8 2.0 0 0.00 67. 1009.  2 NAD-SFC NoSubs
 8  1 26  26  4 -48.3 0.440 -9.000 -9.000 -999.  700.   158.5 0.0280 0.72 1.00 7.20 128.0 15.0 283.5 2.0 0 0.00 66. 1009.  2 NAD-SFC NoSubs
 8  1 26  26  5 -48.3 0.440 -9.000 -9.000 -999.  700.   158.5 0.0280 0.72 1.00 7.20 134.0 15.0 283.4 2.0 0 0.00 66. 1009.  2 NAD-SFC NoSubs
 8  1 26  26  6 -48.4 0.440 -9.000 -9.000 -999.  700.   158.4 0.0280 0.72 1.00 7.20 126.0 15.0 283.2 2.0 0 0.00 66. 1010.  2 NAD-SFC NoSubs
 8  1 26  26  7 -48.4 0.440 -9.000 -9.000 -999.  700.   158.3 0.0280 0.72 1.00 7.20 133.0 15.0 283.1 2.0 0 0.00 66. 1010.  2 NAD-SFC NoSubs
 8  1 26  26  8 -39.3 0.442 -9.000 -9.000 -999.  705.   197.8 0.0280 0.72 0.57 7.20 126.0 15.0 283.2 2.0 0 0.00 64. 1010.  2 NAD-SFC NoSubs
 8  1 26  26  9  23.5 0.468  0.364  0.005   74.  768. -392.5 0.0280 0.72 0.32 7.20 133.0 15.0 284.6 2.0 0 0.00 59. 1010.  2 NAD-SFC NoSubs
 8  1 26  26 10  67.2 0.450  0.842  0.005  319.  725. -122.2 0.0280 0.72 0.24 6.70 134.0 15.0 286.8 2.0 0 0.00 52. 1009.  2 NAD-SFC NoSubs
 8  1 26  26 11  99.2 0.427  1.177  0.005  591.  671.   -70.8 0.0280 0.72 0.21 6.20 132.0 15.0 288.9 2.0 0 0.00 46. 1009.  2 NAD-SFC NoSubs
 8  1 26  26 12 116.9 0.431  1.399  0.005  843.  678.   -61.4 0.0280 0.72 0.20 6.20 136.0 15.0 290.2 2.0 0 0.00 40. 1007.  2 NAD-SFC NoSubs
 8  1 26  26 13 119.5 0.431  1.502  0.005 1018.  680.   -60.2 0.0280 0.72 0.20 6.20 136.0 15.0 290.8 2.0 0 0.00 40. 1006.  2 NAD-SFC NoSubs
 8  1 26  26 14 107.0 0.429  1.491  0.005 1113.  674.   -66.2 0.0280 0.72 0.20 6.20 142.0 15.0 290.4 2.0 0 0.00 46. 1006.  2 NAD-SFC NoSubs
 8  1 26  26 15  79.7 0.423  1.378  0.005 1178.  661.   -85.2 0.0280 0.72 0.22 6.20 126.0 15.0 289.4 2.0 0 0.00 51. 1005.  2 NAD-SFC NoSubs
 8  1 26  26 16  39.5 0.443  1.101  0.005 1208.  707. -196.4 0.0280 0.72 0.28 6.70 140.0 15.0 288.1 2.0 0 0.00 55. 1004.  2 NAD-SFC NoSubs
 8  1 26  26 17 -11.8 0.452 -9.000 -9.000 -999.  730.   700.6 0.0280 0.72 0.45 7.20 145.0 15.0 287.1 2.0 0 0.00 56. 1003.  3 NAD-SFC NoSubs
 8  1 26  26 18 -38.6 0.367 -9.000 -9.000 -999.  540.   114.8 0.0240 0.72 1.00 6.20 151.0 15.0 286.8 2.0 0 0.00 57. 1003.  3 NAD-SFC NoSubs
 8  1 26  26 19 -39.7 0.377 -9.000 -9.000 -999.  555.   120.2 0.0280 0.72 1.00 6.20 134.0 15.0 285.8 2.0 0 0.00 63. 1003.  3 NAD-SFC NoSubs
 8  1 26  26 20 -38.3 0.377 -9.000 -9.000 -999.  555.   124.8 0.0280 0.72 1.00 6.20 128.0 15.0 285.2 2.0 0 0.00 66. 1002.  4 NAD-SFC NoSubs
 8  1 26  26 21 -38.4 0.377 -9.000 -9.000 -999.  555.   124.7 0.0280 0.72 1.00 6.20 126.0 15.0 285.0 2.0 0 0.00 71. 1002.  4 NAD-SFC NoSubs
 8  1 26  26 22 -48.9 0.480 -9.000 -9.000 -999.  799.   202.6 0.0310 0.72 1.00 7.70 116.0 15.0 285.0 2.0 0 0.25 73. 1001.  4 NAD-SFC NoSubs
 8  1 26  26 23 -54.5 0.537 -9.000 -9.000 -999.  942.   252.9 0.0280 0.72 1.00 8.70 124.0 15.0 285.2 2.0 0 0.51 74. 1000.  4 NAD-SFC NoSubs
 8  1 26  26 24 -62.5 0.618 -9.000 -9.000 -999. 1164.   335.9 0.0310 0.72 1.00 9.80 118.0 15.0 285.8 2.0 0 0.51 75.  998.  4 NAD-SFC NoSubs
 8  1 27  27  1 -64.0 0.637 -9.000 -9.000 -999. 1218.   358.8 0.0280 0.72 1.00 10.30 121.0 15.0 286.0 2.0 0 0.25 74.  998.  4 NAD-SFC NoSubs
 8  1 27  27  2 -64.0 0.637 -9.000 -9.000 -999. 1219.   358.4 0.0280 0.72 1.00 10.30 122.0 15.0 286.2 2.0 0 0.00 74.  997.  4 NAD-SFC NoSubs
 8  1 27  27  3 -54.0 0.537 -9.000 -9.000 -999.  955.   254.2 0.0280 0.72 1.00 8.70 121.0 15.0 286.6 2.0 0 0.00 74.  996.  4 NAD-SFC NoSubs
 8  1 27  27  4 -42.2 0.441 -9.000 -9.000 -999.  712.   180.5 0.0280 0.72 1.00 7.20 121.0 15.0 286.8 2.0 0 0.00 76.  996.  5 NAD-SFC NoSubs
 8  1 27  27  5 -34.7 0.345 -9.000 -9.000 -999.  494.   105.3 0.0280 0.72 1.00 5.70 128.0 15.0 286.8 2.0 0 0.00 76.  996.  4 NAD-SFC NoSubs
 8  1 27  27  6 -31.0 0.308 -9.000 -9.000 -999.  410.    83.5 0.0280 0.72 1.00 5.10 141.0 15.0 286.5 2.0 0 0.00 78.  997.  4 NAD-SFC NoSubs
 8  1 27  27  7 -32.2 0.307 -9.000 -9.000 -999.  409.    80.2 0.0280 0.72 1.00 5.10 127.0 15.0 286.0 2.0 0 0.00 81.  997.  3 NAD-SFC NoSubs
 8  1 27  27  8 -25.0 0.309 -9.000 -9.000 -999.  412.   105.0 0.0280 0.72 0.56 5.10 120.0 15.0 285.8 2.0 0 0.00 85.  997.  3 NAD-SFC NoSubs
 8  1 27  27  9  26.5 0.311  0.406  0.005   89.  417. -101.2 0.0280 0.72 0.32 4.60 121.0 15.0 287.5 2.0 0 0.00 79.  997.  3 NAD-SFC NoSubs
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 8  1 27  27 10   70.1  0.522  0.900  0.005  370.  906.   -180.9  0.0220  0.72  0.24   8.20  182.0  15.0  289.8  2.0   0  0.00  62.   997.    3 NAD-SFC NoSubs
 8  1 27  27 11  101.6  0.651  1.237  0.005  663. 1258.   -241.3  0.0220  0.72  0.21  10.30  193.0  15.0  290.8  2.0   0  0.00  51.   997.    3 NAD-SFC NoSubs
 8  1 27  27 12  118.8  0.683  1.418  0.005  855. 1352.   -237.9  0.0220  0.72  0.20  10.80  190.0  15.0  290.9  2.0   0  0.00  46.   996.    3 NAD-SFC NoSubs
 8  1 27  27 13  121.3  0.683  1.519  0.005 1026. 1355.   -233.1  0.0220  0.72  0.20  10.80  186.0  15.0  291.0  2.0   0  0.00  44.   995.    3 NAD-SFC NoSubs
 8  1 27  27 14  108.9  0.623  1.536  0.005 1183. 1186.   -196.7  0.0220  0.72  0.20   9.80  187.0  15.0  290.8  2.0   0  0.00  47.   995.    3 NAD-SFC NoSubs
 8  1 27  27 15   82.2  0.409  1.439  0.005 1288.  675.    -74.1  0.0220  0.72  0.22   6.20  194.0  15.0  290.2  2.0   0  0.00  56.   995.    3 NAD-SFC NoSubs
 8  1 27  27 16   43.1  0.253  1.177  0.005 1339.  330.    -33.3  0.0240  0.72  0.28   3.60  176.0  15.0  289.5  2.0   0  0.00  63.   994.    4 NAD-SFC NoSubs
 8  1 27  27 17   -2.6  0.224 -9.000 -9.000 -999.  255.    378.1  0.0280  0.72  0.45   3.60  148.0  15.0  288.8  2.0   0  0.00  64.   995.    4 NAD-SFC NoSubs
 8  1 27  27 18  -23.9  0.239 -9.000 -9.000 -999.  280.     50.6  0.0240  0.72  1.00   4.10  161.0  15.0  287.8  2.0   0  0.00  67.   996.    4 NAD-SFC NoSubs
 8  1 27  27 19  -24.9  0.239 -9.000 -9.000 -999.  280.     48.4  0.0240  0.72  1.00   4.10  166.0  15.0  286.8  2.0   0  0.00  72.   996.    3 NAD-SFC NoSubs
 8  1 27  27 20  -28.2  0.269 -9.000 -9.000 -999.  335.     61.5  0.0240  0.72  1.00   4.60  166.0  15.0  285.9  2.0   0  0.00  75.   997.    3 NAD-SFC NoSubs
 8  1 27  27 21  -27.3  0.269 -9.000 -9.000 -999.  336.     63.7  0.0240  0.72  1.00   4.60  168.0  15.0  285.2  2.0   0  0.00  78.   998.    4 NAD-SFC NoSubs
 8  1 27  27 22  -30.4  0.300 -9.000 -9.000 -999.  394.     79.0  0.0240  0.72  1.00   5.10  171.0  15.0  284.9  2.0   0  0.00  80.   998.    4 NAD-SFC NoSubs
 8  1 27  27 23  -30.5  0.300 -9.000 -9.000 -999.  394.     78.8  0.0240  0.72  1.00   5.10  176.0  15.0  284.5  2.0   0  0.00  83.   998.    4 NAD-SFC NoSubs
 8  1 27  27 24  -30.5  0.300 -9.000 -9.000 -999.  394.     78.8  0.0240  0.72  1.00   5.10  176.0  15.0  284.2  2.0   0  0.00  86.   998.    4 NAD-SFC NoSubs
 8  1 28  28  1  -25.8  0.266 -9.000 -9.000 -999.  330.     65.1  0.0220  0.72  1.00   4.60  197.0  15.0  284.1  2.0   0  0.00  87.   999.    5 NAD-SFC NoSubs
 8  1 28  28  2  -27.0  0.266 -9.000 -9.000 -999.  329.     61.8  0.0220  0.72  1.00   4.60  230.0  15.0  284.2  2.0   0  0.00  89.   999.    4 NAD-SFC NoSubs
 8  1 28  28  3  -30.1  0.296 -9.000 -9.000 -999.  386.     76.6  0.0220  0.72  1.00   5.10  237.0  15.0  284.2  2.0   0  0.00  90.  1000.    4 NAD-SFC NoSubs
 8  1 28  28  4  -28.3  0.292 -9.000 -9.000 -999.  378.     78.3  0.0200  0.72  1.00   5.10  254.0  15.0  284.1  2.0   0  0.51  92.  1001.    5 NAD-SFC NoSubs
 8  1 28  28  5  -26.7  0.262 -9.000 -9.000 -999.  322.     59.9  0.0200  0.72  1.00   4.60  262.0  15.0  283.9  2.0   0  0.25  91.  1002.    4 NAD-SFC NoSubs
 8  1 28  28  6  -33.8  0.330 -9.000 -9.000 -999.  454.     94.8  0.0420  0.72  1.00   5.10  277.0  15.0  283.4  2.0   0  0.00  88.  1003.    4 NAD-SFC NoSubs
 8  1 28  28  7  -35.3  0.329 -9.000 -9.000 -999.  453.     90.7  0.0420  0.72  1.00   5.10  286.0  15.0  282.1  2.0   0  0.00  87.  1005.    3 NAD-SFC NoSubs
 8  1 28  28  8  -23.0  0.298 -9.000 -9.000 -999.  390.    102.9  0.0420  0.72  0.56   4.60  299.0  15.0  282.0  2.0   0  0.00  84.  1006.    4 NAD-SFC NoSubs
 8  1 28  28  9   27.2  0.435  0.551  0.005  221.  688.   -271.9  0.0420  0.72  0.31   6.20  299.0  15.0  283.4  2.0   0  0.00  70.  1007.    4 NAD-SFC NoSubs
 8  1 28  28 10   13.6  0.399  0.481  0.005  294.  606.   -421.2  0.0800  0.72  0.23   5.10  304.0  15.0  284.1  2.0   0  0.00  59.  1008.   10 NAD-SFC NoSubs
 8  1 28  28 11   21.4  0.295  0.611  0.005  382.  392.   -108.0  0.0800  0.72  0.21   3.60  304.0  15.0  284.0  2.0   0  0.25  59.  1008.   10 NAD-SFC NoSubs
 8  1 28  28 12   79.1  0.222  1.115  0.005  631.  254.    -12.5  0.0420  0.72  0.20   2.60  296.0  15.0  284.0  2.0   0  0.00  59.  1008.    8 NAD-SFC NoSubs
 8  1 28  28 13   97.6  0.290  1.318  0.005  843.  375.    -22.5  0.0420  0.72  0.20   3.60  298.0  15.0  284.5  2.0   0  0.00  56.  1007.    7 NAD-SFC NoSubs
 8  1 28  28 14   98.3  0.393  1.402  0.005 1007.  591.    -55.4  0.0800  0.72  0.20   4.60  305.0  15.0  284.9  2.0   0  0.00  54.  1007.    6 NAD-SFC NoSubs
 8  1 28  28 15   79.5  0.466  1.349  0.005 1111.  764.   -114.5  0.0800  0.72  0.22   5.70  321.0  15.0  284.9  2.0   0  0.00  54.  1007.    5 NAD-SFC NoSubs
 8  1 28  28 16   42.3  0.425  1.110  0.005 1161.  667.   -163.2  0.0950  0.72  0.28   5.10  332.0  15.0  284.8  2.0   0  0.00  56.  1007.    5 NAD-SFC NoSubs
 8  1 28  28 17   -4.0  0.280 -9.000 -9.000 -999.  370.    487.5  0.0950  0.72  0.44   3.60  341.0  15.0  283.8  2.0   0  0.00  64.  1008.    4 NAD-SFC NoSubs
 8  1 28  28 18  -31.8  0.307 -9.000 -9.000 -999.  408.     82.1  0.0950  0.72  1.00   4.10  338.0  15.0  282.4  2.0   0  0.00  70.  1009.    4 NAD-SFC NoSubs
 8  1 28  28 19  -31.9  0.307 -9.000 -9.000 -999.  409.     81.7  0.0950  0.72  1.00   4.10  338.0  15.0  281.4  2.0   0  0.00  78.  1010.    4 NAD-SFC NoSubs
 8  1 28  28 20  -26.6  0.268 -9.000 -9.000 -999.  334.     65.5  0.0950  0.72  1.00   3.60  350.0  15.0  280.9  2.0   0  0.00  83.  1011.    5 NAD-SFC NoSubs
 8  1 28  28 21  -22.7  0.229 -9.000 -9.000 -999.  264.     47.7  0.0950  0.72  1.00   3.10  347.0  15.0  280.5  2.0   0  0.00  85.  1011.    5 NAD-SFC NoSubs
 8  1 28  28 22  -22.8  0.229 -9.000 -9.000 -999.  263.     47.6  0.0950  0.72  1.00   3.10  341.0  15.0  280.0  2.0   0  0.00  86.  1012.    5 NAD-SFC NoSubs
 8  1 28  28 23  -16.0  0.190 -9.000 -9.000 -999.  199.     38.6  0.0950  0.72  1.00   2.60  338.0  15.0  279.4  2.0   0  0.00  86.  1013.    5 NAD-SFC NoSubs
 8  1 28  28 24  -15.1  0.183 -9.000 -9.000 -999.  188.     36.5  0.0800  0.72  1.00   2.60  318.0  15.0  278.8  2.0   0  0.00  86.  1013.    5 NAD-SFC NoSubs
 8  1 29  29  1  -15.1  0.183 -9.000 -9.000 -999.  188.     36.5  0.0800  0.72  1.00   2.60  307.0  15.0  278.1  2.0   0  0.00  88.  1013.    5 NAD-SFC NoSubs
 8  1 29  29  2  -15.2  0.183 -9.000 -9.000 -999.  188.     36.5  0.0800  0.72  1.00   2.60  302.0  15.0  277.6  2.0   0  0.00  90.  1013.    5 NAD-SFC NoSubs
 8  1 29  29  3  -22.4  0.221 -9.000 -9.000 -999.  249.     43.3  0.0800  0.72  1.00   3.10  305.0  15.0  277.1  2.0   0  0.00  91.  1013.    4 NAD-SFC NoSubs
 8  1 29  29  4  -22.8  0.220 -9.000 -9.000 -999.  248.     42.4  0.0800  0.72  1.00   3.10  301.0  15.0  276.6  2.0   0  0.00  92.  1013.    3 NAD-SFC NoSubs
 8  1 29  29  5  -22.8  0.220 -9.000 -9.000 -999.  248.     42.4  0.0800  0.72  1.00   3.10  308.0  15.0  276.2  2.0   0  0.00  93.  1013.    3 NAD-SFC NoSubs
 8  1 29  29  6  -10.2  0.145 -9.000 -9.000 -999.  134.     26.9  0.0800  0.72  1.00   2.10  314.0  15.0  275.8  2.0   0  0.00  94.  1013.    3 NAD-SFC NoSubs
 8  1 29  29  7   -2.8  0.085 -9.000 -9.000 -999.   60.     19.5  0.0800  0.72  1.00   1.00  323.0  15.0  275.5  2.0   0  0.00  96.  1014.    3 NAD-SFC NoSubs
 8  1 29  29  8   -1.0  0.067 -9.000 -9.000 -999.   42.     27.1  0.0950  0.72  0.55   0.50  344.0  15.0  275.2  2.0   0  0.00  96.  1014.    3 NAD-SFC NoSubs
 8  1 29  29  9   25.9 -9.000 -9.000 -9.000  118. -999. -99999.0  0.0471  0.72  0.31   0.00    0.0  15.0  277.1  2.0   0  0.00  84.  1014.    3 NAD-SFC NoSubs
 8  1 29  29 10   69.2 -9.000 -9.000 -9.000  289. -999. -99999.0  0.0471  0.72  0.23   0.00    0.0  15.0  279.0  2.0   0  0.00  71.  1014.    3 NAD-SFC NoSubs
 8  1 29  29 11  100.8 -9.000 -9.000 -9.000  546. -999. -99999.0  0.0471  0.72  0.21   0.00    0.0  15.0  280.5  2.0   0  0.00  63.  1014.    3 NAD-SFC NoSubs
 8  1 29  29 12  118.3 -9.000 -9.000 -9.000  803. -999. -99999.0  0.0471  0.72  0.20   0.00    0.0  15.0  281.8  2.0   0  0.00  59.  1014.    3 NAD-SFC NoSubs
 8  1 29  29 13  120.3  0.139  1.483  0.007  982.  124.    -2.0  0.0950  0.72  0.20   1.00  333.0  15.0  282.2  2.0   0  0.00  56.  1014.    2 NAD-SFC NoSubs
 8  1 29  29 14  108.1  0.179  1.467  0.008 1056.  181.    -4.8  0.0950  0.72  0.20   1.50  341.0  15.0  282.5  2.0   0  0.00  54.  1013.    2 NAD-SFC NoSubs
 8  1 29  29 15   82.3  0.173  1.362  0.008 1109.  173.    -5.7  0.0950  0.72  0.22   1.50  345.0  15.0  282.8  2.0   0  0.00  53.  1013.    3 NAD-SFC NoSubs
 8  1 29  29 16   42.9  0.123  1.105  0.008 1137.  104.    -3.9  0.0950  0.72  0.27   1.00  334.0  15.0  282.9  2.0   0  0.00  53.  1012.    3 NAD-SFC NoSubs
 8  1 29  29 17   -0.3  0.039 -9.000 -9.000 -999.   24.     19.4  0.0960  0.72  0.44   0.50   20.0  15.0  282.5  2.0   0  0.00  56.  1012.    3 NAD-SFC NoSubs
 8  1 29  29 18   -4.2  0.093 -9.000 -9.000 -999.   69.     17.4  0.0400  0.72  1.00   1.50   77.0  15.0  281.8  2.0   0  0.00  60.  1012.    4 NAD-SFC NoSubs
 8  1 29  29 19   -7.1  0.122 -9.000 -9.000 -999.  102.     22.9  0.0310  0.72  1.00   2.10  113.0  15.0  281.1  2.0   0  0.00  62.  1012.    6 NAD-SFC NoSubs
 8  1 29  29 20   -8.7  0.154 -9.000 -9.000 -999.  145.     38.0  0.0280  0.72  1.00   2.60  147.0  15.0  280.6  2.0   0  0.00  65.  1013.   10 NAD-SFC NoSubs
 8  1 29  29 21  -10.3  0.181 -9.000 -9.000 -999.  184.     51.9  0.0240  0.72  1.00   3.10  179.0  15.0  280.4  2.0   0  0.00  68.  1013.   10 NAD-SFC NoSubs
 8  1 29  29 22   -8.3  0.150 -9.000 -9.000 -999.  140.     36.6  0.0240  0.72  1.00   2.60  172.0  15.0  280.2  2.0   0  0.00  73.  1013.   10 NAD-SFC NoSubs
 8  1 29  29 23  -10.5  0.185 -9.000 -9.000 -999.  191.     54.5  0.0280  0.72  1.00   3.10  144.0  15.0  280.1  2.0   0  0.00  77.  1013.   10 NAD-SFC NoSubs
 8  1 29  29 24  -12.6  0.220 -9.000 -9.000 -999.  248.     77.0  0.0310  0.72  1.00   3.60  118.0  15.0  279.9  2.0   0  0.00  81.  1013.   10 NAD-SFC NoSubs
 8  1 30  30  1  -10.6  0.185 -9.000 -9.000 -999.  192.     54.5  0.0280  0.72  1.00   3.10  125.0  15.0  279.9  2.0   0  0.00  83.  1013.   10 NAD-SFC NoSubs
 8  1 30  30  2   -6.4  0.121 -9.000 -9.000 -999.  102.     24.8  0.0280  0.72  1.00   2.10  132.0  15.0  279.9  2.0   0  0.00  84.  1013.    8 NAD-SFC NoSubs
 8  1 30  30  3   -3.6  0.088 -9.000 -9.000 -999.   63.     17.4  0.0310  0.72  1.00   1.50  117.0  15.0  279.9  2.0   0  0.00  87.  1013.    7 NAD-SFC NoSubs
 8  1 30  30  4   -0.9  0.063 -9.000 -9.000 -999.   38.     25.3  0.0240  0.72  1.00   0.50  153.0  15.0  280.0  2.0   0  0.00  88.  1013.    5 NAD-SFC NoSubs
 8  1 30  30  5   -2.7  0.083 -9.000 -9.000 -999.   58.     19.3  0.0800  0.72  1.00   1.00  300.0  15.0  279.8  2.0   0  0.00  90.  1014.    4 NAD-SFC NoSubs
 8  1 30  30  6  -15.5  0.183 -9.000 -9.000 -999.  187.     35.5  0.0800  0.72  1.00   2.60  308.0  15.0  279.2  2.0   0  0.00  93.  1014.    4 NAD-SFC NoSubs
 8  1 30  30  7  -22.4  0.221 -9.000 -9.000 -999.  249.     43.5  0.0800  0.72  1.00   3.10  302.0  15.0  278.8  2.0   0  0.00  96.  1015.    4 NAD-SFC NoSubs
 8  1 30  30  8  -19.9  0.261 -9.000 -9.000 -999.  319.     80.3  0.0800  0.72  0.55   3.60  315.0  15.0  278.6  2.0   0  0.00  94.  1015.    4 NAD-SFC NoSubs
 8  1 30  30  9   28.0  0.299  0.558  0.005  224.  392.    -86.5  0.0800  0.72  0.31   3.60  327.0  15.0  280.0  2.0   0  0.00  84.  1015.    4 NAD-SFC NoSubs
 8  1 30  30 10   70.5  0.325  0.939  0.005  425.  444.    -44.0  0.0950  0.72  0.23   3.60  342.0  15.0  281.2  2.0   0  0.00  76.  1015.    4 NAD-SFC NoSubs
 8  1 30  30 11  101.5  0.333  1.191  0.005  602.  462.    -33.0  0.0950  0.72  0.21   3.60  342.0  15.0  282.8  2.0   0  0.00  66.  1015.    4 NAD-SFC NoSubs
 8  1 30  30 12  115.2  0.432  1.329  0.005  738.  681.    -63.2  0.0800  0.72  0.20   5.10  329.0  15.0  283.8  2.0   0  0.00  58.  1014.    5 NAD-SFC NoSubs
 8  1 30  30 13  117.9  0.490  1.403  0.005  848.  822.    -90.1  0.0950  0.72  0.20   5.70  334.0  15.0  284.4  2.0   0  0.00  54.  1014.    5 NAD-SFC NoSubs
 8  1 30  30 14  109.6  0.525  1.417  0.005  938.  911.   -118.9  0.0950  0.72  0.20   6.20  340.0  15.0  284.8  2.0   0  0.00  51.  1013.    4 NAD-SFC NoSubs
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8	1	30	30	15	83.7	0.519	1.328	0.005	1011.	897.	-150.6	0.0950	0.72	0.22	6.20	338.0	15.0	284.9	2.0	0	0.00	50.	1013.	4	NAD-SFC NoSubs
8	1	30	30	16	44.3	0.352	1.089	0.005	1052.	526.	-89.2	0.0950	0.72	0.27	4.10	343.0	15.0	284.2	2.0	0	0.00	55.	1012.	3	NAD-SFC NoSubs
8	1	30	30	17	-3.7	0.280	-9.000	-9.000	-999.	359.	532.4	0.0950	0.72	0.43	3.60	332.0	15.0	283.5	2.0	0	0.00	61.	1012.	3	NAD-SFC NoSubs
8	1	30	30	18	-27.9	0.258	-9.000	-9.000	-999.	316.	55.9	0.0800	0.72	1.00	3.60	321.0	15.0	282.4	2.0	0	0.00	64.	1013.	3	NAD-SFC NoSubs
8	1	30	30	19	-29.0	0.268	-9.000	-9.000	-999.	333.	59.9	0.0950	0.72	1.00	3.60	334.0	15.0	281.5	2.0	0	0.00	67.	1014.	3	NAD-SFC NoSubs
8	1	30	30	20	-16.6	0.189	-9.000	-9.000	-999.	200.	36.8	0.0950	0.72	1.00	2.60	343.0	15.0	280.9	2.0	0	0.00	69.	1014.	3	NAD-SFC NoSubs
8	1	30	30	21	-1.3	0.074	-9.000	-9.000	-999.	59.	29.6	0.0960	0.72	1.00	0.50	18.0	15.0	280.2	2.0	0	0.00	71.	1015.	3	NAD-SFC NoSubs
8	1	30	30	22	-1.0	0.067	-9.000	-9.000	-999.	41.	26.7	0.0310	0.72	1.00	0.50	91.0	15.0	279.9	2.0	0	0.00	72.	1016.	3	NAD-SFC NoSubs
8	1	30	30	23	-2.2	0.074	-9.000	-9.000	-999.	49.	16.9	0.0240	0.72	1.00	1.00	171.0	15.0	279.0	2.0	0	0.00	77.	1017.	3	NAD-SFC NoSubs
8	1	30	30	24	-2.2	0.075	-9.000	-9.000	-999.	49.	16.8	0.0220	0.72	1.00	1.00	218.0	15.0	278.2	2.0	0	0.00	80.	1017.	2	NAD-SFC NoSubs
8	1	31	31	1	-2.9	0.086	-9.000	-9.000	-999.	60.	19.6	0.0800	0.72	1.00	1.00	304.0	15.0	277.8	2.0	0	0.00	81.	1017.	2	NAD-SFC NoSubs
8	1	31	31	2	-2.9	0.086	-9.000	-9.000	-999.	60.	19.6	0.0800	0.72	1.00	1.00	318.0	15.0	277.2	2.0	0	0.00	83.	1017.	2	NAD-SFC NoSubs
8	1	31	31	3	-1.3	0.074	-9.000	-9.000	-999.	49.	29.5	0.0800	0.72	1.00	0.50	302.0	15.0	276.8	2.0	0	0.00	85.	1017.	2	NAD-SFC NoSubs
8	1	31	31	4	-2.2	0.075	-9.000	-9.000	-999.	49.	16.9	0.0220	0.72	1.00	1.00	201.0	15.0	276.2	2.0	0	0.00	86.	1017.	2	NAD-SFC NoSubs
8	1	31	31	5	-2.2	0.075	-9.000	-9.000	-999.	49.	16.9	0.0220	0.72	1.00	1.00	223.0	15.0	276.1	2.0	0	0.00	87.	1017.	2	NAD-SFC NoSubs
8	1	31	31	6	-2.2	0.075	-9.000	-9.000	-999.	49.	16.9	0.0220	0.72	1.00	1.00	217.0	15.0	275.8	2.0	0	0.00	88.	1017.	2	NAD-SFC NoSubs
8	1	31	31	7	-1.0	0.066	-9.000	-9.000	-999.	41.	26.3	0.0220	0.72	1.00	0.50	205.0	15.0	275.5	2.0	0	0.00	90.	1017.	2	NAD-SFC NoSubs
8	1	31	31	8	-0.8	0.059	-9.000	-9.000	-999.	34.	24.0	0.0240	0.72	0.54	0.50	162.0	15.0	275.4	2.0	0	0.00	91.	1017.	2	NAD-SFC NoSubs
8	1	31	31	9	26.1	-9.000	-9.000	-9.000	84.	-999.	-99999.0	0.0471	0.72	0.31	0.00	0.0	15.0	278.1	2.0	0	0.00	78.	1017.	2	NAD-SFC NoSubs
8	1	31	31	10	70.1	-9.000	-9.000	-9.000	280.	-999.	-99999.0	0.0471	0.72	0.23	0.00	0.0	15.0	280.2	2.0	0	0.00	67.	1016.	2	NAD-SFC NoSubs
8	1	31	31	11	102.2	-9.000	-9.000	-9.000	476.	-999.	-99999.0	0.0471	0.72	0.21	0.00	0.0	15.0	282.1	2.0	0	0.00	57.	1016.	2	NAD-SFC NoSubs
8	1	31	31	12	120.1	-9.000	-9.000	-9.000	655.	-999.	-99999.0	0.0471	0.72	0.20	0.00	0.0	15.0	283.5	2.0	0	0.00	51.	1015.	2	NAD-SFC NoSubs
8	1	31	31	13	123.1	-9.000	-9.000	-9.000	770.	-999.	-99999.0	0.0471	0.72	0.20	0.00	0.0	15.0	284.8	2.0	0	0.00	45.	1014.	2	NAD-SFC NoSubs
8	1	31	31	14	111.8	0.090	1.387	0.008	863.	65.	-1.0	0.0950	0.72	0.20	0.50	334.0	15.0	285.8	2.0	0	0.00	41.	1013.	3	NAD-SFC NoSubs
8	1	31	31	15	85.4	-9.000	-9.000	-9.000	926.	-999.	-99999.0	0.0471	0.72	0.22	0.00	0.0	15.0	286.1	2.0	0	0.00	40.	1013.	3	NAD-SFC NoSubs
8	1	31	31	16	45.8	0.245	1.067	0.008	958.	290.	-28.8	0.0960	0.72	0.27	2.60	16.0	15.0	285.8	2.0	0	0.00	47.	1012.	3	NAD-SFC NoSubs
8	1	31	31	17	-1.6	0.243	-9.000	-9.000	-999.	288.	827.3	0.0960	0.72	0.43	3.10	28.0	15.0	285.0	2.0	0	0.00	53.	1012.	3	NAD-SFC NoSubs
8	1	31	31	18	-10.6	0.150	-9.000	-9.000	-999.	143.	28.9	0.0960	0.72	1.00	2.10	29.0	15.0	284.2	2.0	0	0.00	57.	1012.	3	NAD-SFC NoSubs
8	1	31	31	19	-2.9	0.086	-9.000	-9.000	-999.	62.	19.9	0.0950	0.72	1.00	1.00	346.0	15.0	283.5	2.0	0	0.00	59.	1013.	3	NAD-SFC NoSubs
8	1	31	31	20	-4.4	0.095	-9.000	-9.000	-999.	70.	17.4	0.0420	0.72	1.00	1.50	279.0	15.0	282.5	2.0	0	0.00	64.	1013.	3	NAD-SFC NoSubs
8	1	31	31	21	-8.3	0.128	-9.000	-9.000	-999.	110.	22.8	0.0420	0.72	1.00	2.10	271.0	15.0	282.1	2.0	0	0.00	66.	1013.	3	NAD-SFC NoSubs
8	1	31	31	22	-10.3	0.142	-9.000	-9.000	-999.	129.	25.4	0.0200	0.72	1.00	2.60	268.0	15.0	281.9	2.0	0	0.00	69.	1013.	5	NAD-SFC NoSubs
8	1	31	31	23	-3.1	0.091	-9.000	-9.000	-999.	67.	22.5	0.0420	0.72	1.00	1.50	276.0	15.0	281.6	2.0	0	0.00	75.	1013.	10	NAD-SFC NoSubs
8	1	31	31	24	-0.5	0.050	-9.000	-9.000	-999.	27.	21.1	0.0280	0.72	1.00	0.50	123.0	15.0	281.2	2.0	0	0.00	81.	1013.	10	NAD-SFC NoSubs
8	2	1	32	1	-2.8	0.087	-9.000	-9.000	-999.	61.	20.8	0.0310	0.72	1.00	1.50	113.0	15.0	281.2	2.0	0	0.25	85.	1012.	10	NAD-SFC NoSubs
8	2	1	32	2	-10.7	0.188	-9.000	-9.000	-999.	196.	56.5	0.0310	0.72	1.00	3.10	118.0	15.0	280.5	2.0	0	0.51	96.	1012.	10	NAD-SFC NoSubs
8	2	1	32	3	-12.3	0.217	-9.000	-9.000	-999.	242.	74.5	0.0280	0.72	1.00	3.60	127.0	15.0	280.2	2.0	0	0.51	100.	1012.	10	NAD-SFC NoSubs
8	2	1	32	4	-28.9	0.276	-9.000	-9.000	-999.	348.	65.8	0.0280	0.72	1.00	4.60	139.0	15.0	280.2	2.0	0	0.51	100.	1011.	4	NAD-SFC NoSubs
8	2	1	32	5	-12.3	0.217	-9.000	-9.000	-999.	243.	74.5	0.0280	0.72	1.00	3.60	147.0	15.0	280.2	2.0	0	0.25	98.	1011.	10	NAD-SFC NoSubs
8	2	1	32	6	-10.9	0.151	-9.000	-9.000	-999.	142.	28.5	0.0280	0.72	1.00	2.60	146.0	15.0	280.4	2.0	0	0.00	97.	1011.	6	NAD-SFC NoSubs
8	2	1	32	7	-7.2	0.120	-9.000	-9.000	-999.	100.	21.5	0.0280	0.72	1.00	2.10	149.0	15.0	280.6	2.0	0	0.00	96.	1011.	5	NAD-SFC NoSubs
8	2	1	32	8	-0.6	0.054	-9.000	-9.000	-999.	31.	22.2	0.0280	0.72	0.54	0.50	146.0	15.0	280.6	2.0	0	0.00	96.	1011.	5	NAD-SFC NoSubs
8	2	1	32	9	29.7	0.114	0.505	0.008	156.	93.	-4.5	0.0800	0.72	0.31	1.00	300.0	15.0	281.0	2.0	0	0.00	95.	1011.	5	NAD-SFC NoSubs
8	2	1	32	10	70.7	0.245	0.828	0.007	289.	291.	-18.7	0.0800	0.72	0.23	2.60	324.0	15.0	281.4	2.0	0	0.00	95.	1011.	5	NAD-SFC NoSubs
8	2	1	32	11	84.7	0.284	0.989	0.006	412.	364.	-24.5	0.0800	0.72	0.21	3.10	326.0	15.0	281.9	2.0	0	0.00	93.	1011.	7	NAD-SFC NoSubs
8	2	1	32	12	26.5	0.298	0.690	0.006	447.	391.	-90.3	0.0800	0.72	0.20	3.60	326.0	15.0	282.2	2.0	0	0.00	90.	1010.	10	NAD-SFC NoSubs
8	2	1	32	13	27.2	0.345	0.713	0.006	479.	485.	-135.6	0.0950	0.72	0.20	4.10	334.0	15.0	282.4	2.0	0	0.00	90.	1010.	10	NAD-SFC NoSubs
8	2	1	32	14	24.3	0.306	0.699	0.006	507.	408.	-106.7	0.0950	0.72	0.20	3.60	339.0	15.0	283.0	2.0	0	0.00	84.	1010.	10	NAD-SFC NoSubs
8	2	1	32	15	58.3	0.285	0.974	0.006	569.	366.	-35.7	0.0950	0.72	0.22	3.10	346.0	15.0	284.1	2.0	0	0.00	74.	1009.	8	NAD-SFC NoSubs
8	2	1	32	16	46.5	0.237	0.926	0.006	614.	278.	-25.8	0.0800	0.72	0.27	2.60	326.0	15.0	284.6	2.0	0	0.00	73.	1009.	5	NAD-SFC NoSubs
8	2	1	32	17	2.2	0.278	0.334	0.006	615.	353.	-893.1	0.0800	0.72	0.42	3.60	308.0	15.0	284.1	2.0	0	0.00	75.	1009.	5	NAD-SFC NoSubs
8	2	1	32	18	-30.3	0.308	-9.000	-9.000	-999.	409.	86.6	0.0950	0.72	1.00	4.10	332.0	15.0	282.8	2.0	0	0.00	80.	1010.	5	NAD-SFC NoSubs
8	2	1	32	19	-24.9	0.269	-9.000	-9.000	-999.	335.	70.3	0.0950	0.72	1.00	3.60	336.0	15.0	281.5	2.0	0	0.00	85.	1010.	6	NAD-SFC NoSubs
8	2	1	32	20	-19.0	0.222	-9.000	-9.000	-999.	252.	52.0	0.0800	0.72	1.00	3.10	329.0	15.0	280.8	2.0	0	0.00	86.	1011.	7	NAD-SFC NoSubs
8	2	1	32	21	-20.6	0.222	-9.000	-9.000	-999.	250.	47.5	0.0800	0.72	1.00	3.10	325.0	15.0	280.2	2.0	0	0.00	87.	1011.	6	NAD-SFC NoSubs
8	2	1	32	22	-14.7	0.183	-9.000	-9.000	-999.	189.	38.0	0.0800	0.72	1.00	2.60	322.0	15.0	279.6	2.0	0	0.00	89.	1012.	6	NAD-SFC NoSubs
8	2	1	32	23	-8.6	0.147	-9.000	-9.000	-999.	135.	33.0	0.0800	0.72	1.00	2.10	311.0	15.0	279.1	2.0	0	0.00	91.	1012.	8	NAD-SFC NoSubs
8	2	1	32	24	-1.7	0.072	-9.000	-9.000	-999.	48.	19.2	0.0800	0.72	1.00	1.00	302.0	15.0	278.6	2.0	0	0.00	92.	1012.	10	NAD-SFC NoSubs
8	2	2	33	1	-1.5	0.065	-9.000	-9.000	-999.	40.	17.0	0.0420	0.72	1.00	1.00	282.0	15.0	278.2	2.0	0	0.00	94.	1012.	10	NAD-SFC NoSubs
8	2	2	33	2	-3.1	0.091	-9.000	-9.000	-999.	66.	22.3	0.0420	0.72	1.00	1.50	285.0	15.0	278.0	2.0	0	0.00	95.	1012.	10	NAD-SFC NoSubs
8	2	2	33	3	-3.6	0.092	-9.000	-9.000	-999.	67.	19.3	0.0420	0.72	1.00	1.50	293.0	15.0	277.6	2.0	0	0.00	97.	1012.	8	NAD-SFC NoSubs
8	2	2	33	4	-2.3	0.079	-9.000	-9.000	-999.	53.	18.9	0.0800	0.72	1.00	1.00	305.0	15.0	277.2	2.0	0	0.00	97.	1012.	7	NAD-SFC NoSubs
8	2	2	33	5	-2.2	0.075	-9.000	-9.000	-999.	49.	17.5	0.0420	0.72	1.00	1.00	299.0	15.0	276.9	2.0	0	0.00	98.	1012.	6	NAD-SFC NoSubs
8	2	2	33	6	-2.6	0.082	-9.000	-9.000	-999.	57.	19.2	0.0800	0.72	1.00	1.00	323.0	15.0	276.6	2.0	0	0.00	98.	1013.	5	NAD-SFC NoSubs
8	2	2	33	7	-2.7	0.084	-9.000	-9.000	-999.	59.	19.7	0.0950	0.72	1.00	1.00	336.0	15.0	276.5	2.0	0	0.00	97.	1013.	5	NAD-SFC NoSubs
8	2	2	33	8	-0.9	0.062	-9.000	-9.000	-999.	37.	25.7	0.0950	0.72	0.53	0.50	336.0	15.0	276.8	2.0	0	0.00	97.	1013.	4	NAD-SFC NoSubs
8	2	2	33	9	30.1	0.076	0.490	0.005	141.	50.	-1.3	0.0950	0.72	0.30	0.50	335.0	15.0	277.6	2.0	0	0.00	94.	1013.	4	NAD-SFC NoSubs
8	2	2	33	10	72.9	0.082	0.967	0.005	448.	57.	-1.0	0.0800	0.72	0.23	0.50	316.0	15.0	278.4	2.0	0	0.00	90.	1013.	3	NAD-SFC NoSubs
8	2	2	33	11	104.7	-9.000	-9.000	-9.000	712.	-999.	-99999.0	0.0471	0.72	0.20	0.00	0.0	15.0	280.1	2.0	0	0.00	80.	1013.	3	NAD-SFC NoSubs
8	2	2	33	12	122.4	-9.000	-9.000	-9.000	853.	-999.	-99999.0	0.0471	0.72	0.20	0.00	0.0	15.0	281.4	2.0	0	0.00	72.	1012.	3	NAD-SFC NoSubs
8	2	2	33	13	125.4	-9.000	-9.000	-9.000	977.	-999.	-99999.0	0.0471	0.72	0.19	0.00	0.0	15.0	282.6	2.0	0	0.00	65.	1010.	3	NAD-SFC NoSubs
8	2	2	33	14	113.6	-9.000	-9.000	-9.000	1056.	-999.	-99999.0	0.0471	0.72	0.20	0.00	0.0	15.0	283.6	2.0	0	0.00	60.	1009.	3	NAD-SFC NoSubs
8	2	2	33	15	87.3	-9.000	-9.000	-9.000	1114.	-999.	-99999.0	0.0471	0.72	0.22	0.00	0.0	15.0	284.1	2.0	0	0.00	55.	1008.	3	NAD-SFC NoSubs
8	2	2	33	16	47.7	0.066	1.149	0.008	1144.	40.	-1.0	0.0310	0.72	0.27	0.50	100.0	15.0	284.1	2.0	0	0.00	55.	1007.	3	NAD-SFC NoSubs
8	2	2	33	17	0.4	0.100	0.230	0.008	1144.	76.	-236.8	0.0310	0.72	0.41	1.50	98.0	15.0	283.8	2.0	0	0.00	58.	1006.	3	NAD-SFC NoSubs
8	2	2	33	18	-11.5	0.150	-9.000	-9.000	-999.	139.	26.3	0.0280	0.72	1.00	2.60	134.0	15.0	283.2	2.0	0	0.00	61.	1006.	3	NAD-SFC NoSubs
8	2	2	33	19	-15.8	0.177	-9.000	-9.000	-999.	179.	31.7	0.0240	0.72	1.00	3.10	168.0	15.0	282.5	2.0	0	0.00	66.	1006.	4	NAD-SFC NoSubs

8	2	2	33	20	-14.4	0.179	-9.000	-9.000	-999.	181.	35.5	0.0240	0.72	1.00	3.10	177.0	15.0	282.1	2.0	0	0.00	69.	1006.	7	NAD-SFC NoSubs
8	2	2	33	21	-8.3	0.150	-9.000	-9.000	-999.	140.	36.7	0.0240	0.72	1.00	2.60	173.0	15.0	281.8	2.0	0	0.00	74.	1006.	10	NAD-SFC NoSubs
8	2	2	33	22	-10.2	0.181	-9.000	-9.000	-999.	184.	52.1	0.0240	0.72	1.00	3.10	150.0	15.0	281.4	2.0	0	0.51	82.	1006.	10	NAD-SFC NoSubs
8	2	2	33	23	-14.0	0.248	-9.000	-9.000	-999.	297.	98.1	0.0280	0.72	1.00	4.10	139.0	15.0	281.2	2.0	0	0.76	87.	1005.	10	NAD-SFC NoSubs
8	2	2	33	24	-15.7	0.280	-9.000	-9.000	-999.	355.	124.6	0.0280	0.72	1.00	4.60	143.0	15.0	281.2	2.0	0	0.51	90.	1004.	10	NAD-SFC NoSubs
8	2	3	34	1	-19.6	0.350	-9.000	-9.000	-999.	496.	194.8	0.0280	0.72	1.00	5.70	141.0	15.0	281.2	2.0	0	0.51	93.	1004.	10	NAD-SFC NoSubs
8	2	3	34	2	-31.4	0.411	-9.000	-9.000	-999.	632.	198.1	0.0280	0.72	1.00	6.70	145.0	15.0	281.2	2.0	0	0.51	94.	1002.	8	NAD-SFC NoSubs
8	2	3	34	3	-30.1	0.308	-9.000	-9.000	-999.	417.	86.4	0.0280	0.72	1.00	5.10	136.0	15.0	281.5	2.0	0	0.51	94.	1001.	5	NAD-SFC NoSubs
8	2	3	34	4	-25.4	0.277	-9.000	-9.000	-999.	350.	74.7	0.0280	0.72	1.00	4.60	128.0	15.0	281.9	2.0	0	0.00	93.	1001.	6	NAD-SFC NoSubs
8	2	3	34	5	-21.3	0.208	-9.000	-9.000	-999.	229.	37.7	0.0240	0.72	1.00	3.60	156.0	15.0	282.4	2.0	0	0.00	93.	1000.	4	NAD-SFC NoSubs
8	2	3	34	6	-23.8	0.232	-9.000	-9.000	-999.	268.	46.8	0.0200	0.72	1.00	4.10	246.0	15.0	282.6	2.0	0	0.00	97.	1001.	4	NAD-SFC NoSubs
8	2	3	34	7	-39.4	0.370	-9.000	-9.000	-999.	539.	114.3	0.0420	0.72	1.00	5.70	280.0	15.0	282.0	2.0	0	0.00	100.	1001.	3	NAD-SFC NoSubs
8	2	3	34	8	-21.7	0.333	-9.000	-9.000	-999.	461.	151.2	0.0420	0.72	0.53	5.10	282.0	15.0	282.4	2.0	0	0.00	92.	1002.	4	NAD-SFC NoSubs
8	2	3	34	9	32.2	0.502	0.459	0.005	107.	854.	-351.3	0.0420	0.72	0.30	7.20	284.0	15.0	284.8	2.0	0	0.00	77.	1002.	5	NAD-SFC NoSubs
8	2	3	34	10	15.4	0.530	0.411	0.005	161.	925.	-863.5	0.0420	0.72	0.23	7.70	293.0	15.0	285.8	2.0	0	0.00	64.	1002.	10	NAD-SFC NoSubs
8	2	3	34	11	23.4	0.466	0.526	0.005	221.	769.	-386.4	0.0420	0.72	0.20	6.70	295.0	15.0	285.9	2.0	0	0.00	58.	1002.	10	NAD-SFC NoSubs
8	2	3	34	12	112.7	0.489	1.103	0.005	425.	821.	-92.7	0.0420	0.72	0.20	6.70	290.0	15.0	286.2	2.0	0	0.00	54.	1001.	6	NAD-SFC NoSubs
8	2	3	34	13	122.6	0.459	1.266	0.005	592.	749.	-70.6	0.0420	0.72	0.19	6.20	288.0	15.0	286.5	2.0	0	0.00	51.	1001.	5	NAD-SFC NoSubs
8	2	3	34	14	111.4	0.457	1.327	0.005	750.	742.	-76.7	0.0420	0.72	0.20	6.20	288.0	15.0	286.8	2.0	0	0.00	49.	1001.	5	NAD-SFC NoSubs
8	2	3	34	15	88.8	0.383	1.301	0.005	886.	573.	-56.4	0.0420	0.72	0.22	5.10	292.0	15.0	286.8	2.0	0	0.00	50.	1000.	4	NAD-SFC NoSubs
8	2	3	34	16	49.9	0.246	1.101	0.005	953.	306.	-26.6	0.0420	0.72	0.26	3.10	277.0	15.0	286.5	2.0	0	0.00	55.	1000.	4	NAD-SFC NoSubs
8	2	3	34	17	4.4	0.219	0.491	0.005	957.	246.	-212.7	0.0420	0.72	0.41	3.10	287.0	15.0	286.0	2.0	0	0.00	56.	1000.	5	NAD-SFC NoSubs
8	2	3	34	18	-13.8	0.184	-9.000	-9.000	-999.	190.	40.4	0.0800	0.72	1.00	2.60	305.0	15.0	285.4	2.0	0	0.00	58.	1001.	7	NAD-SFC NoSubs
8	2	3	34	19	-14.9	0.197	-9.000	-9.000	-999.	210.	46.1	0.0420	0.72	1.00	3.10	286.0	15.0	284.6	2.0	0	0.00	63.	1002.	8	NAD-SFC NoSubs
8	2	3	34	20	-20.0	0.264	-9.000	-9.000	-999.	326.	82.5	0.0420	0.72	1.00	4.10	292.0	15.0	283.6	2.0	0	0.00	70.	1003.	8	NAD-SFC NoSubs
8	2	3	34	21	-27.2	0.297	-9.000	-9.000	-999.	388.	86.0	0.0420	0.72	1.00	4.60	293.0	15.0	282.8	2.0	0	0.25	74.	1003.	6	NAD-SFC NoSubs
8	2	3	34	22	-22.3	0.264	-9.000	-9.000	-999.	325.	73.5	0.0420	0.72	1.00	4.10	298.0	15.0	282.0	2.0	0	0.00	78.	1004.	7	NAD-SFC NoSubs
8	2	3	34	23	-18.8	0.222	-9.000	-9.000	-999.	252.	52.1	0.0800	0.72	1.00	3.10	323.0	15.0	281.5	2.0	0	0.25	81.	1005.	7	NAD-SFC NoSubs
8	2	3	34	24	-14.8	0.191	-9.000	-9.000	-999.	200.	42.2	0.0950	0.72	1.00	2.60	335.0	15.0	281.2	2.0	0	0.25	84.	1005.	7	NAD-SFC NoSubs
8	2	4	35	1	-29.3	0.297	-9.000	-9.000	-999.	388.	80.0	0.0800	0.72	1.00	4.10	307.0	15.0	280.8	2.0	0	0.00	85.	1005.	5	NAD-SFC NoSubs
8	2	4	35	2	-38.7	0.372	-9.000	-9.000	-999.	545.	119.2	0.0800	0.72	1.00	5.10	307.0	15.0	279.8	2.0	0	0.00	87.	1005.	4	NAD-SFC NoSubs
8	2	4	35	3	-34.9	0.334	-9.000	-9.000	-999.	465.	95.9	0.0800	0.72	1.00	4.60	316.0	15.0	278.9	2.0	0	0.00	90.	1006.	4	NAD-SFC NoSubs
8	2	4	35	4	-29.1	0.268	-9.000	-9.000	-999.	334.	59.1	0.0950	0.72	1.00	3.60	335.0	15.0	278.2	2.0	0	0.00	93.	1006.	3	NAD-SFC NoSubs
8	2	4	35	5	-10.6	0.150	-9.000	-9.000	-999.	147.	28.5	0.0950	0.72	1.00	2.10	332.0	15.0	277.9	2.0	0	0.00	94.	1007.	3	NAD-SFC NoSubs
8	2	4	35	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	277.6	2.0	0	0.00	94.	1008.	3	NAD-SFC NoSubs
8	2	4	35	7	-1.0	0.066	-9.000	-9.000	-999.	40.	26.2	0.0240	0.72	1.00	0.50	177.0	15.0	277.4	2.0	0	0.00	92.	1009.	3	NAD-SFC NoSubs
8	2	4	35	8	-3.0	0.083	-9.000	-9.000	-999.	57.	17.2	0.0220	0.72	0.52	1.50	189.0	15.0	277.2	2.0	0	0.00	90.	1010.	3	NAD-SFC NoSubs
8	2	4	35	9	31.3	0.274	0.540	0.005	182.	343.	-59.0	0.0950	0.72	0.30	3.10	344.0	15.0	279.2	2.0	0	0.00	72.	1010.	3	NAD-SFC NoSubs
8	2	4	35	10	75.3	0.363	0.943	0.005	401.	524.	-57.1	0.0950	0.72	0.23	4.10	336.0	15.0	280.8	2.0	0	0.00	60.	1010.	3	NAD-SFC NoSubs
8	2	4	35	11	107.2	0.371	1.217	0.005	606.	542.	-42.8	0.0950	0.72	0.20	4.10	345.0	15.0	281.8	2.0	0	0.00	51.	1010.	3	NAD-SFC NoSubs
8	2	4	35	12	124.9	0.411	1.458	0.005	895.	632.	-50.0	0.0950	0.72	0.20	4.60	333.0	15.0	282.8	2.0	0	0.00	45.	1009.	3	NAD-SFC NoSubs
8	2	4	35	13	127.9	0.448	1.562	0.005	1074.	719.	-63.2	0.0950	0.72	0.19	5.10	333.0	15.0	283.5	2.0	0	0.00	41.	1009.	3	NAD-SFC NoSubs
8	2	4	35	14	116.0	0.475	1.566	0.005	1191.	784.	-82.9	0.0800	0.72	0.20	5.70	327.0	15.0	283.9	2.0	0	0.00	40.	1008.	3	NAD-SFC NoSubs
8	2	4	35	15	89.6	0.483	1.469	0.005	1274.	807.	-113.4	0.0950	0.72	0.22	5.70	335.0	15.0	284.0	2.0	0	0.00	39.	1008.	3	NAD-SFC NoSubs
8	2	4	35	16	48.6	0.391	1.211	0.005	1316.	593.	-110.4	0.0950	0.72	0.26	4.60	342.0	15.0	283.8	2.0	0	0.00	42.	1008.	2	NAD-SFC NoSubs
8	2	4	35	17	0.4	0.238	0.238	0.005	1315.	296.	-3294.3	0.0800	0.72	0.40	3.10	326.0	15.0	283.1	2.0	0	0.00	49.	1008.	2	NAD-SFC NoSubs
8	2	4	35	18	-28.5	0.258	-9.000	-9.000	-999.	315.	54.4	0.0800	0.72	1.00	3.60	322.0	15.0	282.2	2.0	0	0.00	52.	1009.	2	NAD-SFC NoSubs
8	2	4	35	19	-22.8	0.220	-9.000	-9.000	-999.	248.	42.2	0.0800	0.72	1.00	3.10	325.0	15.0	281.2	2.0	0	0.00	54.	1010.	2	NAD-SFC NoSubs
8	2	4	35	20	-5.6	0.108	-9.000	-9.000	-999.	93.	20.7	0.0950	0.72	1.00	1.50	334.0	15.0	280.4	2.0	0	0.00	57.	1010.	2	NAD-SFC NoSubs
8	2	4	35	21	-1.2	0.074	-9.000	-9.000	-999.	48.	29.4	0.0800	0.72	1.00	0.50	316.0	15.0	279.8	2.0	0	0.00	59.	1011.	2	NAD-SFC NoSubs
8	2	4	35	22	-2.2	0.074	-9.000	-9.000	-999.	49.	16.8	0.0220	0.72	1.00	1.00	204.0	15.0	278.8	2.0	0	0.00	62.	1012.	2	NAD-SFC NoSubs
8	2	4	35	23	-7.2	0.115	-9.000	-9.000	-999.	94.	19.1	0.0220	0.72	1.00	2.10	202.0	15.0	278.2	2.0	0	0.00	64.	1013.	2	NAD-SFC NoSubs
8	2	4	35	24	-7.2	0.115	-9.000	-9.000	-999.	94.	19.1	0.0220	0.72	1.00	2.10	208.0	15.0	277.5	2.0	0	0.00	65.	1013.	2	NAD-SFC NoSubs
8	2	5	36	1	-11.2	0.144	-9.000	-9.000	-999.	131.	24.0	0.0220	0.72	1.00	2.60	226.0	15.0	276.8	2.0	0	0.00	66.	1013.	2	NAD-SFC NoSubs
8	2	5	36	2	-21.6	0.202	-9.000	-9.000	-999.	217.	34.3	0.0200	0.72	1.00	3.60	259.0	15.0	276.2	2.0	0	0.00	67.	1013.	2	NAD-SFC NoSubs
8	2	5	36	3	-29.7	0.262	-9.000	-9.000	-999.	322.	54.7	0.0420	0.72	1.00	4.10	282.0	15.0	275.8	2.0	0	0.00	68.	1014.	2	NAD-SFC NoSubs
8	2	5	36	4	-33.6	0.296	-9.000	-9.000	-999.	386.	69.6	0.0800	0.72	1.00	4.10	302.0	15.0	275.1	2.0	0	0.00	68.	1014.	2	NAD-SFC NoSubs
8	2	5	36	5	-26.0	0.228	-9.000	-9.000	-999.	263.	41.3	0.0420	0.72	1.00	3.60	289.0	15.0	274.5	2.0	0	0.00	68.	1014.	2	NAD-SFC NoSubs
8	2	5	36	6	-19.2	0.194	-9.000	-9.000	-999.	206.	34.6	0.0420	0.72	1.00	3.10	276.0	15.0	274.1	2.0	0	0.00	67.	1015.	2	NAD-SFC NoSubs
8	2	5	36	7	-15.9	0.171	-9.000	-9.000	-999.	170.	28.7	0.0200	0.72	1.00	3.10	259.0	15.0	273.8	2.0	0	0.00	66.	1016.	2	NAD-SFC NoSubs
8	2	5	36	8	-9.2	0.144	-9.000	-9.000	-999.	131.	29.5	0.0200	0.72	0.51	2.60	268.0	15.0	274.1	2.0	0	0.00	65.	1017.	2	NAD-SFC NoSubs
8	2	5	36	9	30.3	0.195	0.422	0.009	90.	206.	-22.1	0.0800	0.72	0.30	2.10	320.0	15.0	276.1	2.0	0	0.00	53.	1017.	2	NAD-SFC NoSubs
8	2	5	36	10	74.8	0.127	0.816	0.008	263.	110.	-2.5	0.0800	0.72	0.23	1.00	305.0	15.0	277.9	2.0	0	0.00	48.	1017.	2	NAD-SFC NoSubs
8	2	5	36	11	107.1	0.118	1.036	0.007	377.	98.	-1.4	0.0420	0.72	0.20	1.00	292.0	15.0	279.2	2.0	0	0.00	44.	1017.	2	NAD-SFC NoSubs
8	2	5	36	12	125.1	0.176	1.210	0.006	514.	177.	-3.9	0.0800	0.72	0.19	1.50	302.0	15.0	280.8	2.0	0	0.00	41.	1017.	2	NAD-SFC NoSubs
8	2	5	36	13	128.2	0.176	1.305	0.006	629.	178.	-3.9	0.0800	0.72	0.19	1.50	305.0	15.0	281.8	2.0	0	0.00	39.	1016.	2	NAD-SFC NoSubs
8	2	5	36	14	116.2	0.174	1.332	0.006	737.	175.	-4.1	0.0800	0.72	0.20	1.50	306.0	15.0	282.6	2.0	0	0.00	38.	1016.	2	NAD-SFC NoSubs
8	2	5	36	15	89.6	0.169	1.264	0.006	817.	167.	-4.9	0.0800	0.72	0.21	1.50	324.0	15.0	283.0	2.0	0	0.00	38.	1015.	2	NAD-SFC NoSubs
8	2	5	36	16	49.6	0.164	1.055	0.006	858.	160.	-8.1	0.0950	0.72	0.26	1.50	335.0	15.0	283.0	2.0	0	0.00	39.	1015.	2	NAD-SFC NoSubs
8	2	5	36	17	1.2	0.122	0.309	0.006	857.	102.	-131.4	0.0800	0.72	0.40	1.50	323.0	15.0	282.8	2.0	0	0.00	45.	1016.	2	NAD-SFC NoSubs
8	2	5	36	18	-2.9	0.085	-9.000	-9.000	-999.	60.	19.5	0.0800	0.72	1.00	1.00	317.0	15.0	281.8	2.0	0	0.00	49.	1016.	2	NAD-SFC NoSubs
8	2	5	36	19	-1.1	0.069	-9.000	-9.000	-999.	44.	27.7	0.0420	0.72	1.00	0.50	275.0	15.0	280.8	2.0	0	0.00	54.	1016.	2	NAD-SFC NoSubs
8	2	5	36	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	279.6	2.0	0	0.00	59.	1016.	2	NAD-SFC NoSubs
8	2	5	36	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	278.6	2.0	0	0.00	64.	1016.	2	NAD-SFC NoSubs
8	2	5	36	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	277.8	2.0	0	0.00	68.	1017.	2	NAD-SFC NoSubs
8	2	5	36	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	277.1	2.0	0	0.00	71.	1017.	2	NAD-SFC NoSubs
8	2	5	36	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	276.5	2.0	0	0.00	73.	1017.	2	NAD-SFC NoSubs

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 8  2  6  37  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 276.0  2.0   0  0.00   75. 1017.    2 NAD-SFC NoSubs
 8  2  6  37  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 275.6  2.0   0  0.00   76. 1016.    2 NAD-SFC NoSubs
 8  2  6  37  3   -1.0  0.067 -9.000 -9.000 -999.  42.     26.9  0.0280  0.72  1.00  0.50  120.0  15.0 275.2  2.0   0  0.00   77. 1016.    2 NAD-SFC NoSubs
 8  2  6  37  4   -1.1  0.068 -9.000 -9.000 -999.  43.     27.1  0.0310  0.72  1.00  0.50  116.0  15.0 274.9  2.0   0  0.00   77. 1016.    2 NAD-SFC NoSubs
 8  2  6  37  5   -1.0  0.068 -9.000 -9.000 -999.  42.     26.9  0.0280  0.72  1.00  0.50  128.0  15.0 274.8  2.0   0  0.00   78. 1016.    2 NAD-SFC NoSubs
 8  2  6  37  6   -2.4  0.077 -9.000 -9.000 -999.  51.     17.3  0.0280  0.72  1.00  1.00  127.0  15.0 274.6  2.0   0  0.00   77. 1016.    2 NAD-SFC NoSubs
 8  2  6  37  7   -2.3  0.076 -9.000 -9.000 -999.  50.     17.0  0.0240  0.72  1.00  1.00  154.0  15.0 274.8  2.0   0  0.00   77. 1016.    2 NAD-SFC NoSubs
 8  2  6  37  8   -1.6  0.065 -9.000 -9.000 -999.  40.     16.1  0.0310  0.72  0.51  1.00  119.0  15.0 274.8  2.0   0  0.00   76. 1016.    3 NAD-SFC NoSubs
 8  2  6  37  9   32.8  0.062  0.418  0.008  81.   37.     -1.0  0.0280  0.72  0.29  0.50  134.0  15.0 276.2  2.0   0  0.00   70. 1016.    3 NAD-SFC NoSubs
 8  2  6  37 10   77.1 -9.000 -9.000 -9.000 258. -999. -99999.0  0.0471  0.72  0.23  0.00    0.0  15.0 278.8  2.0   0  0.00   56. 1016.    3 NAD-SFC NoSubs
 8  2  6  37 11  109.1 -9.000 -9.000 -9.000 449. -999. -99999.0  0.0471  0.72  0.20  0.00    0.0  15.0 280.4  2.0   0  0.00   51. 1016.    3 NAD-SFC NoSubs
 8  2  6  37 12  127.0  0.079  1.278  0.011 595.  53.     -1.0  0.0420  0.72  0.19  0.50  276.0  15.0 281.6  2.0   0  0.00   47. 1015.    3 NAD-SFC NoSubs
 8  2  6  37 13  130.0  0.121  1.352  0.012 688. 101.     -1.2  0.0420  0.72  0.19  1.00  294.0  15.0 282.2  2.0   0  0.00   44. 1014.    3 NAD-SFC NoSubs
 8  2  6  37 14  118.1  0.197  1.341  0.011 739. 210.     -5.9  0.0420  0.72  0.20  2.10  299.0  15.0 282.8  2.0   0  0.00   43. 1014.    3 NAD-SFC NoSubs
 8  2  6  37 15   91.9  0.250  1.254  0.011 777. 301.    -15.4  0.0800  0.72  0.21  2.60  325.0  15.0 283.4  2.0   0  0.00   41. 1013.    3 NAD-SFC NoSubs
 8  2  6  37 16   52.2  0.210  1.048  0.011 797. 231.    -16.0  0.0950  0.72  0.26  2.10  342.0  15.0 283.5  2.0   0  0.00   46. 1013.    3 NAD-SFC NoSubs
 8  2  6  37 17    4.0  0.178  0.447  0.011 798. 180.   -125.3  0.0960  0.72  0.40  2.10   12.0  15.0 283.0  2.0   0  0.00   49. 1013.    3 NAD-SFC NoSubs
 8  2  6  37 18   -2.7  0.082 -9.000 -9.000 -999.  61.     18.9  0.0650  0.72  1.00  1.00   52.0  15.0 282.2  2.0   0  0.00   52. 1013.    3 NAD-SFC NoSubs
 8  2  6  37 19   -1.0  0.066 -9.000 -9.000 -999.  41.     26.4  0.0280  0.72  1.00  0.50  148.0  15.0 281.2  2.0   0  0.00   57. 1014.    3 NAD-SFC NoSubs
 8  2  6  37 20   -1.0  0.065 -9.000 -9.000 -999.  40.     25.9  0.0200  0.72  1.00  0.50  261.0  15.0 280.2  2.0   0  0.00   63. 1014.    2 NAD-SFC NoSubs
 8  2  6  37 21   -2.9  0.085 -9.000 -9.000 -999.  60.     19.5  0.0800  0.72  1.00  1.00  329.0  15.0 279.9  2.0   0  0.00   67. 1015.    2 NAD-SFC NoSubs
 8  2  6  37 22   -3.0  0.087 -9.000 -9.000 -999.  62.     20.0  0.0960  0.72  1.00  1.00    2.0  15.0 279.8  2.0   0  0.00   73. 1015.    2 NAD-SFC NoSubs
 8  2  6  37 23   -1.2  0.072 -9.000 -9.000 -999.  47.     28.8  0.0650  0.72  1.00  0.50   47.0  15.0 279.2  2.0   0  0.00   79. 1015.    2 NAD-SFC NoSubs
 8  2  6  37 24   -2.4  0.077 -9.000 -9.000 -999.  51.     17.5  0.0310  0.72  1.00  1.00  107.0  15.0 278.8  2.0   0  0.00   83. 1015.    2 NAD-SFC NoSubs
 8  2  7  38  1   -4.1  0.090 -9.000 -9.000 -999.  65.     16.1  0.0280  0.72  1.00  1.50  138.0  15.0 278.6  2.0   0  0.00   83. 1015.    2 NAD-SFC NoSubs
 8  2  7  38  2   -7.4  0.117 -9.000 -9.000 -999.  96.     19.5  0.0240  0.72  1.00  2.10  165.0  15.0 278.8  2.0   0  0.00   80. 1015.    2 NAD-SFC NoSubs
 8  2  7  38  3  -11.4  0.146 -9.000 -9.000 -999. 134.     24.7  0.0240  0.72  1.00  2.60  174.0  15.0 279.1  2.0   0  0.00   79. 1015.    2 NAD-SFC NoSubs
 8  2  7  38  4   -7.4  0.117 -9.000 -9.000 -999.  96.     19.5  0.0240  0.72  1.00  2.10  168.0  15.0 279.2  2.0   0  0.00   79. 1015.    2 NAD-SFC NoSubs
 8  2  7  38  5   -7.4  0.117 -9.000 -9.000 -999.  96.     19.5  0.0240  0.72  1.00  2.10  171.0  15.0 279.2  2.0   0  0.00   80. 1015.    2 NAD-SFC NoSubs
 8  2  7  38  6   -3.9  0.087 -9.000 -9.000 -999.  62.     15.4  0.0220  0.72  1.00  1.50  200.0  15.0 279.1  2.0   0  0.00   82. 1015.    2 NAD-SFC NoSubs
 8  2  7  38  7   -2.2  0.074 -9.000 -9.000 -999.  48.     16.7  0.0200  0.72  1.00  1.00  262.0  15.0 278.2  2.0   0  0.00   88. 1015.    2 NAD-SFC NoSubs
 8  2  7  38  8   -2.0  0.074 -9.000 -9.000 -999.  49.     18.8  0.0800  0.72  0.50  1.00  314.0  15.0 277.9  2.0   0  0.00   91. 1015.    2 NAD-SFC NoSubs
 8  2  7  38  9   32.7  0.116  0.564  0.005 198.  94.     -4.3  0.0800  0.72  0.29  1.00  324.0  15.0 279.4  2.0   0  0.00   85. 1015.    2 NAD-SFC NoSubs
 8  2  7  38 10   77.4  0.086  1.094  0.016 612.  60.     -1.0  0.0950  0.72  0.22  0.50  353.0  15.0 280.5  2.0   0  0.00   82. 1015.    2 NAD-SFC NoSubs
 8  2  7  38 11  109.7  0.090  1.277  0.017 688.  65.     -1.0  0.0960  0.72  0.20  0.50    8.0  15.0 281.0  2.0   0  0.00   80. 1015.    2 NAD-SFC NoSubs
 8  2  7  38 12  127.7 -9.000 -9.000 -9.000 728. -999. -99999.0  0.0471  0.72  0.19  0.00    0.0  15.0 282.2  2.0   0  0.00   76. 1014.    2 NAD-SFC NoSubs
 8  2  7  38 13  131.5  0.140  1.407  0.016 767. 126.     -1.9  0.0950  0.72  0.19  1.00  352.0  15.0 283.5  2.0   0  0.00   70. 1013.    3 NAD-SFC NoSubs
 8  2  7  38 14  119.8  0.139  1.385  0.016 802. 124.     -2.0  0.0950  0.72  0.20  1.00  350.0  15.0 284.6  2.0   0  0.00   65. 1012.    3 NAD-SFC NoSubs
 8  2  7  38 15   93.5  0.176  1.289  0.016 827. 177.     -5.2  0.0950  0.72  0.21  1.50  351.0  15.0 285.2  2.0   0  0.00   62. 1012.    3 NAD-SFC NoSubs
 8  2  7  38 16   53.7  0.211  1.078  0.016 842. 232.    -15.7  0.0960  0.72  0.26  2.10   11.0  15.0 285.0  2.0   0  0.00   63. 1011.    3 NAD-SFC NoSubs
 8  2  7  38 17    5.3  0.254  0.498  0.016 843. 307.   -279.8  0.0960  0.72  0.39  3.10   24.0  15.0 284.2  2.0   0  0.00   70. 1011.    3 NAD-SFC NoSubs
 8  2  7  38 18  -26.6  0.248 -9.000 -9.000 -999. 296.     51.6  0.0650  0.72  1.00  3.60   33.0  15.0 283.0  2.0   0  0.00   75. 1011.    3 NAD-SFC NoSubs
 8  2  7  38 19  -21.1  0.211 -9.000 -9.000 -999. 234.     40.3  0.0650  0.72  1.00  3.10   38.0  15.0 282.2  2.0   0  0.00   78. 1011.    3 NAD-SFC NoSubs
 8  2  7  38 20   -4.9  0.101 -9.000 -9.000 -999.  84.     19.1  0.0650  0.72  1.00  1.50   45.0  15.0 281.6  2.0   0  0.00   80. 1012.    3 NAD-SFC NoSubs
 8  2  7  38 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 281.0  2.0   0  0.00   84. 1012.    2 NAD-SFC NoSubs
 8  2  7  38 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 280.4  2.0   0  0.00   87. 1012.    2 NAD-SFC NoSubs
 8  2  7  38 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 279.9  2.0   0  0.00   90. 1012.    2 NAD-SFC NoSubs
 8  2  7  38 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 279.4  2.0   0  0.00   93. 1012.    2 NAD-SFC NoSubs
 8  2  8  39  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 279.0  2.0   0  0.00   95. 1011.    2 NAD-SFC NoSubs
 8  2  8  39  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 278.8  2.0   0  0.00   97. 1011.    2 NAD-SFC NoSubs
 8  2  8  39  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 278.2  2.0   0  0.00   99. 1011.    2 NAD-SFC NoSubs
 8  2  8  39  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 277.5  2.0   0  0.00  100. 1011.    2 NAD-SFC NoSubs
 8  2  8  39  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 276.5  2.0   0  0.00  100. 1011.    2 NAD-SFC NoSubs
 8  2  8  39  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 276.1  2.0   0  0.00  100. 1012.    2 NAD-SFC NoSubs
 8  2  8  39  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 276.0  2.0   0  0.00  100. 1012.    2 NAD-SFC NoSubs
 8  2  8  39  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.50  0.00    0.0  15.0 276.1  2.0   0  0.00  100. 1012.    2 NAD-SFC NoSubs
 8  2  8  39  9   33.5 -9.000 -9.000 -9.000  91. -999. -99999.0  0.0471  0.72  0.29  0.00    0.0  15.0 277.2  2.0   0  0.00  100. 1012.    2 NAD-SFC NoSubs
 8  2  8  39 10   78.4  0.128  0.904  0.014 340. 110.     -2.4  0.0800  0.72  0.22  1.00  314.0  15.0 279.8  2.0   0  0.00   92. 1012.    2 NAD-SFC NoSubs
 8  2  8  39 11  110.9  0.174  1.116  0.015 452. 173.     -4.3  0.0800  0.72  0.20  1.50  326.0  15.0 281.4  2.0   0  0.00   86. 1012.    2 NAD-SFC NoSubs
 8  2  8  39 12  129.0  0.182  1.238  0.015 530. 187.     -4.2  0.0950  0.72  0.19  1.50  343.0  15.0 282.8  2.0   0  0.00   82. 1011.    2 NAD-SFC NoSubs
 8  2  8  39 13  132.3  0.229  1.301  0.015 600. 263.     -8.2  0.0950  0.72  0.19  2.10  344.0  15.0 284.2  2.0   0  0.00   77. 1010.    2 NAD-SFC NoSubs
 8  2  8  39 14  120.5  0.228  1.301  0.014 658. 261.     -8.8  0.0960  0.72  0.20  2.10    2.0  15.0 285.4  2.0   0  0.00   71. 1009.    2 NAD-SFC NoSubs
 8  2  8  39 15   94.0  0.222  1.219  0.014 693. 251.    -10.5  0.0960  0.72  0.21  2.10   12.0  15.0 285.9  2.0   0  0.00   69. 1009.    2 NAD-SFC NoSubs
 8  2  8  39 16   53.8  0.211  1.022  0.014 713. 232.    -15.7  0.0960  0.72  0.25  2.10   23.0  15.0 285.9  2.0   0  0.00   69. 1008.    2 NAD-SFC NoSubs
 8  2  8  39 17    4.8  0.135  0.458  0.014 714. 121.    -45.9  0.0960  0.72  0.39  1.50   28.0  15.0 285.4  2.0   0  0.00   73. 1008.    2 NAD-SFC NoSubs
 8  2  8  39 18   -1.3  0.075 -9.000 -9.000 -999.  50.     29.7  0.0960  0.72  1.00  0.50   19.0  15.0 284.5  2.0   0  0.00   77. 1009.    2 NAD-SFC NoSubs
 8  2  8  39 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 283.4  2.0   0  0.00   83. 1009.    2 NAD-SFC NoSubs
 8  2  8  39 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 282.4  2.0   0  0.00   88. 1009.    2 NAD-SFC NoSubs
 8  2  8  39 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 281.5  2.0   0  0.00   93. 1009.    2 NAD-SFC NoSubs
 8  2  8  39 22   -1.2  0.072 -9.000 -9.000 -999.  47.     28.8  0.0650  0.72  1.00  0.50   49.0  15.0 280.8  2.0   0  0.00   98. 1010.    2 NAD-SFC NoSubs
 8  2  8  39 23   -1.3  0.075 -9.000 -9.000 -999.  50.     29.8  0.0960  0.72  1.00  0.50   26.0  15.0 279.8  2.0   0  0.00  100. 1010.    2 NAD-SFC NoSubs
 8  2  8  39 24   -1.2  0.073 -9.000 -9.000 -999.  47.     28.9  0.0650  0.72  1.00  0.50   42.0  15.0 277.9  2.0   0  0.00  100. 1009.    2 NAD-SFC NoSubs
 8  2  9  40  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 276.9  2.0   0  0.00  100. 1010.    2 NAD-SFC NoSubs
 8  2  9  40  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 276.4  2.0   0  0.00  100. 1010.    2 NAD-SFC NoSubs
 8  2  9  40  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 276.2  2.0   0  0.00  100. 1010.    2 NAD-SFC NoSubs
 8  2  9  40  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 276.1  2.0   0  0.00  100. 1010.    2 NAD-SFC NoSubs
 8  2  9  40  5   -1.1  0.070 -9.000 -9.000 -999.  44.     27.7  0.0400  0.72  1.00  0.50   71.0  15.0 276.2  2.0   0  0.00  100. 1010.    2 NAD-SFC NoSubs
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 8  2  9  40  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 276.2  2.0   0  0.00  100. 1011.   2 NAD-SFC NoSubs
 8  2  9  40  7   -1.3  0.076 -9.000 -9.000 -999.  50.     30.0  0.0950  0.72  1.00  0.50  356.0  15.0 276.2  2.0   0  0.00  100. 1011.   2 NAD-SFC NoSubs
 8  2  9  40  8   16.8 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.49  0.00    0.0  15.0 276.6  2.0   0  0.00  100. 1012.   2 NAD-SFC NoSubs
 8  2  9  40  9   34.9  0.075  0.415  0.020   74.  49.     -1.1  0.0800  0.72  0.29  0.50  310.0  15.0 279.9  2.0   0  0.00   81. 1012.   2 NAD-SFC NoSubs
 8  2  9  40 10   80.2  0.128  0.700  0.015  155. 110.     -2.4  0.0800  0.72  0.22  1.00  301.0  15.0 283.0  2.0   0  0.00   68. 1012.   2 NAD-SFC NoSubs
 8  2  9  40 11  113.0  0.133  0.936  0.013  261. 117.     -1.9  0.0800  0.72  0.20  1.00  321.0  15.0 285.6  2.0   0  0.00   59. 1011.   2 NAD-SFC NoSubs
 8  2  9  40 12  131.4  0.140  1.097  0.011  362. 126.     -1.9  0.0950  0.72  0.19  1.00  344.0  15.0 287.6  2.0   0  0.00   54. 1010.   2 NAD-SFC NoSubs
 8  2  9  40 13  135.0  0.141  1.202  0.010  464. 127.     -1.9  0.0950  0.72  0.19  1.00  349.0  15.0 289.4  2.0   0  0.00   49. 1009.   2 NAD-SFC NoSubs
 8  2  9  40 14  123.4  0.181  1.235  0.009  550. 185.     -4.3  0.0950  0.72  0.20  1.50  346.0  15.0 290.8  2.0   0  0.00   41. 1008.   2 NAD-SFC NoSubs
 8  2  9  40 15   96.9  0.223  1.179  0.008  608. 252.    -10.2  0.0950  0.72  0.21  2.10  357.0  15.0 291.2  2.0   0  0.00   40. 1007.   2 NAD-SFC NoSubs
 8  2  9  40 16   57.2 -9.000 -9.000 -9.000  642. -999. -99999.0  0.0471  0.72  0.25  0.00    0.0  15.0 292.8  2.0   0  0.00   43. 1007.   2 NAD-SFC NoSubs
 8  2  9  40 17    7.9  0.220  0.523  0.007  646. 248.    -121.1  0.0960  0.72  0.38  2.60   12.0  15.0 292.0  2.0   0  0.00   47. 1007.   2 NAD-SFC NoSubs
 8  2  9  40 18  -10.6  0.150 -9.000 -9.000 -999. 141.     28.9  0.0960  0.72  1.00  2.10   17.0  15.0 290.9  2.0   0  0.00   51. 1007.   2 NAD-SFC NoSubs
 8  2  9  40 19   -2.9  0.086 -9.000 -9.000 -999.  62.     19.9  0.0960  0.72  1.00  1.00    7.0  15.0 289.8  2.0   0  0.00   55. 1008.   2 NAD-SFC NoSubs
 8  2  9  40 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 288.5  2.0   0  0.00   61. 1008.   2 NAD-SFC NoSubs
 8  2  9  40 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 287.2  2.0   0  0.00   67. 1009.   2 NAD-SFC NoSubs
 8  2  9  40 22   -1.2  0.073 -9.000 -9.000 -999.  48.     29.1  0.0800  0.72  1.00  0.50  305.0  15.0 286.2  2.0   0  0.00   71. 1009.   2 NAD-SFC NoSubs
 8  2  9  40 23   -2.9  0.087 -9.000 -9.000 -999.  61.     19.9  0.0950  0.72  1.00  1.00  335.0  15.0 285.6  2.0   0  0.00   74. 1010.   2 NAD-SFC NoSubs
 8  2  9  40 24   -5.2  0.105 -9.000 -9.000 -999.  82.     20.0  0.0800  0.72  1.00  1.50  321.0  15.0 285.2  2.0   0  0.00   75. 1010.   2 NAD-SFC NoSubs
 8  2 10  41  1   -5.2  0.105 -9.000 -9.000 -999.  82.     19.9  0.0800  0.72  1.00  1.50  315.0  15.0 285.0  2.0   0  0.00   74. 1010.   2 NAD-SFC NoSubs
 8  2 10  41  2   -8.4  0.128 -9.000 -9.000 -999. 110.     22.6  0.0420  0.72  1.00  2.10  289.0  15.0 284.8  2.0   0  0.00   73. 1010.   2 NAD-SFC NoSubs
 8  2 10  41  3   -8.4  0.128 -9.000 -9.000 -999. 110.     22.6  0.0420  0.72  1.00  2.10  290.0  15.0 284.1  2.0   0  0.00   70. 1010.   2 NAD-SFC NoSubs
 8  2 10  41  4   -8.4  0.128 -9.000 -9.000 -999. 110.     22.6  0.0420  0.72  1.00  2.10  281.0  15.0 283.6  2.0   0  0.00   69. 1011.   2 NAD-SFC NoSubs
 8  2 10  41  5   -3.8  0.086 -9.000 -9.000 -999.  61.     15.2  0.0200  0.72  1.00  1.50  256.0  15.0 283.2  2.0   0  0.00   68. 1011.   2 NAD-SFC NoSubs
 8  2 10  41  6   -3.8  0.086 -9.000 -9.000 -999.  61.     15.2  0.0200  0.72  1.00  1.50  255.0  15.0 282.8  2.0   0  0.00   67. 1011.   2 NAD-SFC NoSubs
 8  2 10  41  7   -3.8  0.086 -9.000 -9.000 -999.  61.     15.2  0.0200  0.72  1.00  1.50  251.0  15.0 282.4  2.0   0  0.00   67. 1011.   2 NAD-SFC NoSubs
 8  2 10  41  8   -2.6  0.081 -9.000 -9.000 -999.  55.     18.5  0.0200  0.72  0.48  1.50  259.0  15.0 282.5  2.0   0  0.00   65. 1011.   2 NAD-SFC NoSubs
 8  2 10  41  9   36.9  0.155  0.485  0.012  111. 146.     -9.0  0.0800  0.72  0.28  1.50  307.0  15.0 284.5  2.0   0  0.00   54. 1011.   2 NAD-SFC NoSubs
 8  2 10  41 10   82.1  0.084  0.773  0.010  203.  60.     -1.0  0.0800  0.72  0.22  0.50  300.0  15.0 286.2  2.0   0  0.00   50. 1011.   2 NAD-SFC NoSubs
 8  2 10  41 11  115.0  0.078  1.011  0.008  324.  52.     -1.0  0.0420  0.72  0.20  0.50  291.0  15.0 288.4  2.0   0  0.00   46. 1011.   2 NAD-SFC NoSubs
 8  2 10  41 12  133.5  0.079  1.189  0.007  454.  54.     -1.0  0.0420  0.72  0.19  0.50  292.0  15.0 290.2  2.0   0  0.00   40. 1010.   2 NAD-SFC NoSubs
 8  2 10  41 13  136.9  0.137  1.315  0.007  599. 121.     -1.7  0.0800  0.72  0.19  1.00  304.0  15.0 291.4  2.0   0  0.00   38. 1009.   2 NAD-SFC NoSubs
 8  2 10  41 14  125.2  0.135  1.352  0.006  710. 119.     -1.8  0.0800  0.72  0.20  1.00  319.0  15.0 292.2  2.0   0  0.00   37. 1008.   2 NAD-SFC NoSubs
 8  2 10  41 15   98.6  0.177  1.294  0.006  790. 178.     -5.0  0.0950  0.72  0.21  1.50  333.0  15.0 292.6  2.0   0  0.00   37. 1008.   2 NAD-SFC NoSubs
 8  2 10  41 16   58.4  0.212  1.106  0.006  833. 234.    -14.7  0.0950  0.72  0.25  2.10  345.0  15.0 292.5  2.0   0  0.00   42. 1008.   2 NAD-SFC NoSubs
 8  2 10  41 17    8.8  0.184  0.591  0.006  838. 190.    -63.8  0.0950  0.72  0.38  2.10  338.0  15.0 291.8  2.0   0  0.00   46. 1008.   2 NAD-SFC NoSubs
 8  2 10  41 18   -2.9  0.086 -9.000 -9.000 -999.  66.     19.9  0.0950  0.72  1.00  1.00  354.0  15.0 290.5  2.0   0  0.00   52. 1008.   2 NAD-SFC NoSubs
 8  2 10  41 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 289.1  2.0   0  0.00   58. 1009.   2 NAD-SFC NoSubs
 8  2 10  41 20   -0.9  0.065 -9.000 -9.000 -999.  40.     25.9  0.0220  0.72  1.00  0.50  197.0  15.0 287.8  2.0   0  0.00   64. 1009.   2 NAD-SFC NoSubs
 8  2 10  41 21   -1.0  0.065 -9.000 -9.000 -999.  40.     25.9  0.0220  0.72  1.00  0.50  195.0  15.0 286.6  2.0   0  0.00   69. 1009.   2 NAD-SFC NoSubs
 8  2 10  41 22   -1.0  0.066 -9.000 -9.000 -999.  41.     26.5  0.0280  0.72  1.00  0.50  134.0  15.0 285.6  2.0   0  0.00   73. 1009.   2 NAD-SFC NoSubs
 8  2 10  41 23   -1.1  0.069 -9.000 -9.000 -999.  43.     27.4  0.0400  0.72  1.00  0.50   87.0  15.0 284.8  2.0   0  0.00   78. 1009.   2 NAD-SFC NoSubs
 8  2 10  41 24   -1.1  0.069 -9.000 -9.000 -999.  43.     27.4  0.0400  0.72  1.00  0.50   81.0  15.0 284.0  2.0   0  0.00   81. 1009.   2 NAD-SFC NoSubs
 8  2 11  42  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 283.4  2.0   0  0.00   83. 1009.   2 NAD-SFC NoSubs
 8  2 11  42  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 283.0  2.0   0  0.00   84. 1009.   2 NAD-SFC NoSubs
 8  2 11  42  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 282.5  2.0   0  0.00   85. 1009.   2 NAD-SFC NoSubs
 8  2 11  42  4   -1.1  0.069 -9.000 -9.000 -999.  44.     27.6  0.0420  0.72  1.00  0.50  292.0  15.0 282.2  2.0   0  0.00   84. 1009.   2 NAD-SFC NoSubs
 8  2 11  42  5   -2.5  0.079 -9.000 -9.000 -999.  53.     18.0  0.0420  0.72  1.00  1.00  287.0  15.0 282.0  2.0   0  0.00   81. 1009.   2 NAD-SFC NoSubs
 8  2 11  42  6   -4.5  0.095 -9.000 -9.000 -999.  70.     17.3  0.0420  0.72  1.00  1.50  286.0  15.0 281.8  2.0   0  0.00   78. 1010.   2 NAD-SFC NoSubs
 8  2 11  42  7   -4.5  0.095 -9.000 -9.000 -999.  70.     17.3  0.0420  0.72  1.00  1.50  283.0  15.0 281.6  2.0   0  0.00   75. 1010.   2 NAD-SFC NoSubs
 8  2 11  42  8   -1.2  0.059 -9.000 -9.000 -999.  34.     15.1  0.0200  0.72  0.48  1.00  268.0  15.0 281.8  2.0   0  0.00   72. 1010.   2 NAD-SFC NoSubs
 8  2 11  42  9   38.0  0.118  0.442  0.011   82.  97.     -3.9  0.0800  0.72  0.28  1.00  303.0  15.0 284.2  2.0   0  0.00   62. 1010.   2 NAD-SFC NoSubs
 8  2 11  42 10   83.3 -9.000 -9.000 -9.000  212. -999. -99999.0  0.0471  0.72  0.22  0.00    0.0  15.0 286.2  2.0   0  0.00   57. 1011.   2 NAD-SFC NoSubs
 8  2 11  42 11  116.2 -9.000 -9.000 -9.000  391. -999. -99999.0  0.0471  0.72  0.20  0.00    0.0  15.0 288.4  2.0   0  0.00   50. 1010.   2 NAD-SFC NoSubs
 8  2 11  42 12  134.5  0.080  1.249  0.010  521.  54.     -1.0  0.0420  0.72  0.19  0.50  281.0  15.0 289.8  2.0   0  0.00   46. 1009.   2 NAD-SFC NoSubs
 8  2 11  42 13  137.9  0.080  1.340  0.009  628.  54.     -1.0  0.0420  0.72  0.19  0.50  288.0  15.0 290.9  2.0   0  0.00   44. 1008.   2 NAD-SFC NoSubs
 8  2 11  42 14  126.2  0.135  1.353  0.008  706. 119.     -1.8  0.0800  0.72  0.20  1.00  312.0  15.0 291.8  2.0   0  0.00   42. 1008.   2 NAD-SFC NoSubs
 8  2 11  42 15   99.8  0.177  1.283  0.008  761. 179.     -5.0  0.0950  0.72  0.21  1.50  335.0  15.0 292.4  2.0   0  0.00   41. 1007.   2 NAD-SFC NoSubs
 8  2 11  42 16   59.5  0.212  1.094  0.008  791. 235.    -14.4  0.0950  0.72  0.25  2.10  345.0  15.0 292.4  2.0   0  0.00   43. 1007.   2 NAD-SFC NoSubs
 8  2 11  42 17    9.8 -9.000 -9.000 -9.000  795. -999. -99999.0  0.0471  0.72  0.37  0.00    0.0  15.0 291.8  2.0   0  0.00   48. 1007.   2 NAD-SFC NoSubs
 8  2 11  42 18   -5.4  0.108 -9.000 -9.000 -999.  86.     21.0  0.0960  0.72  1.00  1.50   17.0  15.0 290.8  2.0   0  0.00   53. 1008.   2 NAD-SFC NoSubs
 8  2 11  42 19   -1.0  0.068 -9.000 -9.000 -999.  43.     27.2  0.0400  0.72  1.00  0.50   81.0  15.0 289.2  2.0   0  0.00   59. 1008.   2 NAD-SFC NoSubs
 8  2 11  42 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 287.9  2.0   0  0.00   66. 1008.   2 NAD-SFC NoSubs
 8  2 11  42 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 286.8  2.0   0  0.00   72. 1008.   2 NAD-SFC NoSubs
 8  2 11  42 22   -1.1  0.069 -9.000 -9.000 -999.  43.     27.4  0.0400  0.72  1.00  0.50   86.0  15.0 285.8  2.0   0  0.00   77. 1008.   2 NAD-SFC NoSubs
 8  2 11  42 23   -1.0  0.067 -9.000 -9.000 -999.  42.     26.8  0.0310  0.72  1.00  0.50   96.0  15.0 284.9  2.0   0  0.00   81. 1009.   2 NAD-SFC NoSubs
 8  2 11  42 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 284.2  2.0   0  0.00   84. 1009.   2 NAD-SFC NoSubs
 8  2 12  43  1   -4.4  0.095 -9.000 -9.000 -999.  70.     17.4  0.0420  0.72  1.00  1.50  279.0  15.0 284.0  2.0   0  0.00   83. 1009.   2 NAD-SFC NoSubs
 8  2 12  43  2  -18.8  0.195 -9.000 -9.000 -999. 206.     35.4  0.0420  0.72  1.00  3.10  289.0  15.0 284.0  2.0   0  0.00   81. 1009.   2 NAD-SFC NoSubs
 8  2 12  43  3  -22.7  0.220 -9.000 -9.000 -999. 248.     42.4  0.0800  0.72  1.00  3.10  304.0  15.0 283.6  2.0   0  0.00   81. 1009.   2 NAD-SFC NoSubs
 8  2 12  43  4  -22.7  0.220 -9.000 -9.000 -999. 248.     42.3  0.0800  0.72  1.00  3.10  301.0  15.0 283.2  2.0   0  0.00   82. 1009.   2 NAD-SFC NoSubs
 8  2 12  43  5  -13.0  0.161 -9.000 -9.000 -999. 156.     28.7  0.0420  0.72  1.00  2.60  299.0  15.0 282.9  2.0   0  0.00   81. 1010.   2 NAD-SFC NoSubs
 8  2 12  43  6  -10.1  0.145 -9.000 -9.000 -999. 132.     26.9  0.0800  0.72  1.00  2.10  302.0  15.0 282.6  2.0   0  0.00   81. 1010.   2 NAD-SFC NoSubs
 8  2 12  43  7   -8.4  0.128 -9.000 -9.000 -999. 110.     22.5  0.0420  0.72  1.00  2.10  293.0  15.0 282.2  2.0   0  0.00   80. 1010.   2 NAD-SFC NoSubs
 8  2 12  43  8   -5.9  0.132 -9.000 -9.000 -999. 115.     34.8  0.0420  0.72  0.47  2.10  292.0  15.0 282.2  2.0   0  0.00   78. 1010.   2 NAD-SFC NoSubs
 8  2 12  43  9   39.1  0.199  0.481  0.009  102. 212.    -18.0  0.0800  0.72  0.28  2.10  316.0  15.0 284.4  2.0   0  0.00   65. 1010.   2 NAD-SFC NoSubs
 8  2 12  43 10   84.5  0.129  0.810  0.008  227. 113.     -2.3  0.0800  0.72  0.22  1.00  312.0  15.0 286.2  2.0   0  0.00   59. 1010.   2 NAD-SFC NoSubs
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 8  2 12  43 11  117.5  0.078  1.074  0.008  380.   53.     -1.0  0.0420  0.72  0.20  0.50  285.0  15.0  288.5  2.0  0  0.00  52.  1009.  2 NAD-SFC NoSubs
 8  2 12  43 12  135.9  0.122  1.279  0.009  554.  102.     -1.2  0.0420  0.72  0.19  1.00  287.0  15.0  290.1  2.0  0  0.00  47.  1008.  2 NAD-SFC NoSubs
 8  2 12  43 13  139.3  0.122  1.382  0.010  681.  102.     -1.2  0.0420  0.72  0.19  1.00  298.0  15.0  291.2  2.0  0  0.00  45.  1007.  2 NAD-SFC NoSubs
 8  2 12  43 14  127.6  0.136  1.390  0.010  755.  120.     -1.7  0.0800  0.72  0.19  1.00  321.0  15.0  292.2  2.0  0  0.00  44.  1006.  2 NAD-SFC NoSubs
 8  2 12  43 15  101.1  0.177  1.316  0.010  809.  179.     -4.9  0.0950  0.72  0.21  1.50  338.0  15.0  292.8  2.0  0  0.00  43.  1006.  2 NAD-SFC NoSubs
 8  2 12  43 16   60.8  0.213  1.125  0.010  840.  236.    -14.3  0.0960  0.72  0.25  2.10    4.0  15.0  292.8  2.0  0  0.00  44.  1005.  2 NAD-SFC NoSubs
 8  2 12  43 17   11.1  0.187  0.639  0.010  844.  194.    -53.2  0.0960  0.72  0.37  2.10   18.0  15.0  292.2  2.0  0  0.00  50.  1005.  2 NAD-SFC NoSubs
 8  2 12  43 18   -4.9  0.101 -9.000 -9.000 -999.   80.     19.1  0.0650  0.72  0.76  1.50   42.0  15.0  291.0  2.0  0  0.00  55.  1005.  2 NAD-SFC NoSubs
 8  2 12  43 19   -1.0  0.068 -9.000 -9.000 -999.   43.     27.2  0.0400  0.72  1.00  0.50   65.0  15.0  289.6  2.0  0  0.00  61.  1005.  2 NAD-SFC NoSubs
 8  2 12  43 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  288.2  2.0  0  0.00  68.  1005.  2 NAD-SFC NoSubs
 8  2 12  43 21   -1.1  0.069 -9.000 -9.000 -999.   43.     27.4  0.0420  0.72  1.00  0.50  272.0  15.0  287.1  2.0  0  0.00  74.  1005.  2 NAD-SFC NoSubs
 8  2 12  43 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  286.2  2.0  0  0.00  78.  1005.  2 NAD-SFC NoSubs
 8  2 12  43 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  285.8  2.0  0  0.00  80.  1005.  2 NAD-SFC NoSubs
 8  2 12  43 24   -1.3  0.075 -9.000 -9.000 -999.   49.     29.6  0.0950  0.72  1.00  0.50  345.0  15.0  285.0  2.0  0  0.00  83.  1004.  2 NAD-SFC NoSubs
 8  2 13  44  1   -1.2  0.073 -9.000 -9.000 -999.   48.     29.2  0.0800  0.72  1.00  0.50  324.0  15.0  284.5  2.0  0  0.00  85.  1004.  2 NAD-SFC NoSubs
 8  2 13  44  2   -1.3  0.075 -9.000 -9.000 -999.   49.     29.7  0.0950  0.72  1.00  0.50  345.0  15.0  284.1  2.0  0  0.00  86.  1003.  2 NAD-SFC NoSubs
 8  2 13  44  3   -1.2  0.073 -9.000 -9.000 -999.   48.     29.2  0.0800  0.72  1.00  0.50  319.0  15.0  283.8  2.0  0  0.00  86.  1003.  2 NAD-SFC NoSubs
 8  2 13  44  4   -2.4  0.079 -9.000 -9.000 -999.   53.     18.0  0.0420  0.72  1.00  1.00  287.0  15.0  283.5  2.0  0  0.00  86.  1003.  2 NAD-SFC NoSubs
 8  2 13  44  5   -2.4  0.079 -9.000 -9.000 -999.   53.     18.0  0.0420  0.72  1.00  1.00  284.0  15.0  283.2  2.0  0  0.00  86.  1002.  2 NAD-SFC NoSubs
 8  2 13  44  6   -2.8  0.085 -9.000 -9.000 -999.   59.     19.5  0.0800  0.72  1.00  1.00  302.0  15.0  282.8  2.0  0  0.00  86.  1002.  2 NAD-SFC NoSubs
 8  2 13  44  7   -2.8  0.085 -9.000 -9.000 -999.   60.     19.5  0.0800  0.72  1.00  1.00  327.0  15.0  282.2  2.0  0  0.00  87.  1002.  2 NAD-SFC NoSubs
 8  2 13  44  8   -1.6  0.072 -9.000 -9.000 -999.   46.     20.9  0.0950  0.72  0.47  1.00  340.0  15.0  282.5  2.0  0  0.00  85.  1001.  2 NAD-SFC NoSubs
 8  2 13  44  9   40.4  0.235  0.477  0.010   96.  273.    -28.6  0.0800  0.72  0.28  2.60  329.0  15.0  285.0  2.0  0  0.00  68.  1001.  2 NAD-SFC NoSubs
 8  2 13  44 10   85.9  0.249  0.829  0.010  236.  298.    -16.1  0.0800  0.72  0.22  2.60  321.0  15.0  286.9  2.0  0  0.00  61.  1001.  2 NAD-SFC NoSubs
 8  2 13  44 11  118.7  0.338  1.087  0.009  386.  471.    -28.9  0.0950  0.72  0.20  3.60  334.0  15.0  288.5  2.0  0  0.00  54.  1000.  2 NAD-SFC NoSubs
 8  2 13  44 12  136.9  0.414  1.247  0.008  505.  638.    -46.1  0.0950  0.72  0.19  4.60  331.0  15.0  289.2  2.0  0  0.00  53.  1000.  2 NAD-SFC NoSubs
 8  2 13  44 13  140.1  0.437  1.334  0.007  605.  693.    -53.1  0.0800  0.72  0.19  5.10  329.0  15.0  290.0  2.0  0  0.00  51.   999.  2 NAD-SFC NoSubs
 8  2 13  44 14  128.3  0.435  1.355  0.007  690.  688.    -57.0  0.0800  0.72  0.19  5.10  327.0  15.0  290.6  2.0  0  0.00  51.   998.  2 NAD-SFC NoSubs
 8  2 13  44 15  102.4  0.523  1.298  0.006  761.  908.   -124.5  0.0950  0.72  0.21  6.20  330.0  15.0  290.8  2.0  0  0.00  53.   998.  3 NAD-SFC NoSubs
 8  2 13  44 16   62.4  0.419  1.120  0.007  801.  660.   -104.9  0.0800  0.72  0.25  5.10  319.0  15.0  290.4  2.0  0  0.00  57.   997.  3 NAD-SFC NoSubs
 8  2 13  44 17   12.6  0.362  0.660  0.007  806.  525.   -333.1  0.0800  0.72  0.36  4.60  310.0  15.0  289.0  2.0  0  0.00  63.   997.  3 NAD-SFC NoSubs
 8  2 13  44 18  -35.7  0.334 -9.000 -9.000 -999.  464.     92.6  0.0800  0.72  0.75  4.60  305.0  15.0  287.0  2.0  0  0.00  65.   997.  2 NAD-SFC NoSubs
 8  2 13  44 19  -36.0  0.334 -9.000 -9.000 -999.  463.     92.0  0.0800  0.72  1.00  4.60  304.0  15.0  285.5  2.0  0  0.00  65.   997.  2 NAD-SFC NoSubs
 8  2 13  44 20  -32.0  0.296 -9.000 -9.000 -999.  387.     71.8  0.0420  0.72  1.00  4.60  296.0  15.0  284.2  2.0  0  0.00  65.   997.  2 NAD-SFC NoSubs
 8  2 13  44 21  -24.8  0.228 -9.000 -9.000 -999.  264.     42.7  0.0420  0.72  1.00  3.60  299.0  15.0  283.2  2.0  0  0.00  65.   998.  2 NAD-SFC NoSubs
 8  2 13  44 22   -8.3  0.128 -9.000 -9.000 -999.  115.     22.5  0.0420  0.72  1.00  2.10  289.0  15.0  282.8  2.0  0  0.00  65.   998.  2 NAD-SFC NoSubs
 8  2 13  44 23   -3.7  0.086 -9.000 -9.000 -999.   61.     15.2  0.0200  0.72  1.00  1.50  268.0  15.0  282.2  2.0  0  0.00  64.   998.  2 NAD-SFC NoSubs
 8  2 13  44 24   -3.7  0.086 -9.000 -9.000 -999.   61.     15.2  0.0200  0.72  1.00  1.50  266.0  15.0  281.8  2.0  0  0.00  61.   997.  2 NAD-SFC NoSubs
 8  2 14  45  1  -22.6  0.220 -9.000 -9.000 -999.  248.     42.1  0.0800  0.72  1.00  3.10  310.0  15.0  280.9  2.0  0  0.00  58.   998.  2 NAD-SFC NoSubs
 8  2 14  45  2  -47.5  0.432 -9.000 -9.000 -999.  682.    151.3  0.0950  0.72  1.00  5.70  332.0  15.0  280.2  2.0  0  0.00  55.   999.  2 NAD-SFC NoSubs
 8  2 14  45  3  -54.4  0.494 -9.000 -9.000 -999.  832.    197.0  0.0800  0.72  1.00  6.70  326.0  15.0  279.6  2.0  0  0.00  54.   999.  2 NAD-SFC NoSubs
 8  2 14  45  4  -46.1  0.417 -9.000 -9.000 -999.  652.    140.4  0.0800  0.72  1.00  5.70  326.0  15.0  279.0  2.0  0  0.00  54.  1000.  2 NAD-SFC NoSubs
 8  2 14  45  5  -41.2  0.372 -9.000 -9.000 -999.  545.    111.1  0.0800  0.72  1.00  5.10  328.0  15.0  278.4  2.0  0  0.00  55.  1000.  2 NAD-SFC NoSubs
 8  2 14  45  6  -32.9  0.296 -9.000 -9.000 -999.  390.     70.4  0.0800  0.72  1.00  4.10  325.0  15.0  278.0  2.0  0  0.00  55.  1001.  2 NAD-SFC NoSubs
 8  2 14  45  7  -29.8  0.267 -9.000 -9.000 -999.  332.     57.4  0.0950  0.72  1.00  3.60  330.0  15.0  277.5  2.0  0  0.00  56.  1003.  2 NAD-SFC NoSubs
 8  2 14  45  8  -14.5  0.312 -9.000 -9.000 -999.  419.    188.4  0.0950  0.72  0.46  4.10  344.0  15.0  278.4  2.0  0  0.00  53.  1003.  2 NAD-SFC NoSubs
 8  2 14  45  9   40.7  0.508  0.551  0.005  147.  868.   -287.7  0.0960  0.72  0.28  6.20    3.0  15.0  281.0  2.0  0  0.00  40.  1004.  2 NAD-SFC NoSubs
 8  2 14  45 10   86.1  0.440  0.937  0.005  342.  704.    -88.4  0.0960  0.72  0.22  5.10   13.0  15.0  282.8  2.0  0  0.00  35.  1004.  2 NAD-SFC NoSubs
 8  2 14  45 11  118.7  0.447  1.191  0.005  510.  717.    -67.4  0.0960  0.72  0.20  5.10    8.0  15.0  284.1  2.0  0  0.00  32.  1005.  2 NAD-SFC NoSubs
 8  2 14  45 12  137.1  0.414  1.358  0.005  655.  641.    -46.4  0.0960  0.72  0.19  4.60   14.0  15.0  285.6  2.0  0  0.00  27.  1004.  2 NAD-SFC NoSubs
 8  2 14  45 13  140.4 -9.000 -9.000 -9.000  842. -999. -99999.0  0.0471  0.72  0.19  0.00    0.0  15.0  287.0  2.0  0  0.00  21.  1004.  2 NAD-SFC NoSubs
 8  2 14  45 14  128.7  0.294  1.525  0.005  987.  383.    -17.7  0.0800  0.72  0.19  3.10  327.0  15.0  288.0  2.0  0  0.00  18.  1003.  2 NAD-SFC NoSubs
 8  2 14  45 15  102.2  0.324  1.471  0.005 1115.  442.    -29.7  0.0800  0.72  0.21  3.60  315.0  15.0  288.8  2.0  0  0.00  18.  1002.  2 NAD-SFC NoSubs
 8  2 14  45 16   61.6  0.313  1.267  0.005 1181.  420.    -44.4  0.0800  0.72  0.24  3.60  303.0  15.0  288.1  2.0  0  0.00  27.  1003.  2 NAD-SFC NoSubs
 8  2 14  45 17   11.0  0.324  0.715  0.005 1186.  443.   -275.8  0.0800  0.72  0.36  4.10  303.0  15.0  285.8  2.0  0  0.00  43.  1003.  2 NAD-SFC NoSubs
 8  2 14  45 18   -4.4  0.095 -9.000 -9.000 -999.  150.     17.4  0.0420  0.72  0.74  1.50  296.0  15.0  284.2  2.0  0  0.00  46.  1004.  2 NAD-SFC NoSubs
 8  2 14  45 19  -11.7  0.150 -9.000 -9.000 -999.  139.     25.9  0.0280  0.72  1.00  2.60  129.0  15.0  283.5  2.0  0  0.00  47.  1005.  2 NAD-SFC NoSubs
 8  2 14  45 20  -30.8  0.281 -9.000 -9.000 -999.  357.     64.3  0.0310  0.72  1.00  4.60  117.0  15.0  282.6  2.0  0  0.00  49.  1007.  2 NAD-SFC NoSubs
 8  2 14  45 21   -2.2  0.075 -9.000 -9.000 -999.  117.     16.9  0.0240  0.72  1.00  1.00  151.0  15.0  282.8  2.0  0  0.00  45.  1007.  2 NAD-SFC NoSubs
 8  2 14  45 22   -3.9  0.087 -9.000 -9.000 -999.   62.     15.4  0.0220  0.72  1.00  1.50  228.0  15.0  281.8  2.0  0  0.00  47.  1008.  2 NAD-SFC NoSubs
 8  2 14  45 23   -7.1  0.115 -9.000 -9.000 -999.   94.     19.2  0.0220  0.72  1.00  2.10  188.0  15.0  280.6  2.0  0  0.00  52.  1009.  2 NAD-SFC NoSubs
 8  2 14  45 24  -16.0  0.174 -9.000 -9.000 -999.  175.     29.7  0.0220  0.72  1.00  3.10  203.0  15.0  279.9  2.0  0  0.00  54.  1010.  2 NAD-SFC NoSubs
 8  2 15  46  1  -29.1  0.261 -9.000 -9.000 -999.  320.     55.2  0.0200  0.72  1.00  4.60  253.0  15.0  279.6  2.0  0  0.00  53.  1010.  2 NAD-SFC NoSubs
 8  2 15  46  2  -36.8  0.329 -9.000 -9.000 -999.  453.     87.2  0.0420  0.72  1.00  5.10  272.0  15.0  278.8  2.0  0  0.00  56.  1010.  2 NAD-SFC NoSubs
 8  2 15  46  3  -33.1  0.295 -9.000 -9.000 -999.  386.     70.2  0.0420  0.72  1.00  4.60  282.0  15.0  278.2  2.0  0  0.00  56.  1011.  2 NAD-SFC NoSubs
 8  2 15  46  4  -25.6  0.228 -9.000 -9.000 -999.  264.     41.8  0.0420  0.72  1.00  3.60  280.0  15.0  277.8  2.0  0  0.00  55.  1011.  2 NAD-SFC NoSubs
 8  2 15  46  5  -15.8  0.172 -9.000 -9.000 -999.  171.     28.9  0.0200  0.72  1.00  3.10  258.0  15.0  277.2  2.0  0  0.00  53.  1012.  2 NAD-SFC NoSubs
 8  2 15  46  6  -22.0  0.205 -9.000 -9.000 -999.  222.     35.1  0.0220  0.72  1.00  3.60  237.0  15.0  277.0  2.0  0  0.00  52.  1012.  2 NAD-SFC NoSubs
 8  2 15  46  7  -26.2  0.231 -9.000 -9.000 -999.  267.     42.8  0.0200  0.72  1.00  4.10  241.0  15.0  276.4  2.0  0  0.00  54.  1013.  2 NAD-SFC NoSubs
 8  2 15  46  8   -7.7  0.177 -9.000 -9.000 -999.  179.     64.5  0.0200  0.72  0.45  3.10  254.0  15.0  276.9  2.0  0  0.00  55.  1013.  2 NAD-SFC NoSubs
 8  2 15  46  9   41.5  0.179  0.515  0.007  119.  182.    -12.6  0.0420  0.72  0.27  2.10  276.0  15.0  278.6  2.0  0  0.00  49.  1014.  2 NAD-SFC NoSubs
 8  2 15  46 10   86.9  0.134  0.894  0.005  298.  118.     -2.5  0.0200  0.72  0.22  1.50  258.0  15.0  280.5  2.0  0  0.00  44.  1014.  2 NAD-SFC NoSubs
 8  2 15  46 11  119.5  0.106  1.156  0.005  468.   83.     -1.0  0.0200  0.72  0.20  1.00  256.0  15.0  281.9  2.0  0  0.00  43.  1014.  2 NAD-SFC NoSubs
 8  2 15  46 12  137.8  0.080  1.378  0.005  686.   54.     -1.0  0.0420  0.72  0.19  0.50  285.0  15.0  283.4  2.0  0  0.00  41.  1013.  2 NAD-SFC NoSubs
 8  2 15  46 13  141.1  0.080  1.512  0.006  885.   54.     -1.0  0.0420  0.72  0.19  0.50  288.0  15.0  284.6  2.0  0  0.00  38.  1012.  2 NAD-SFC NoSubs
 8  2 15  46 14  129.2  0.089  1.532  0.006 1005.   64.     -1.0  0.0800  0.72  0.19  0.50  302.0  15.0  285.5  2.0  0  0.00  37.  1011.  2 NAD-SFC NoSubs
 8  2 15  46 15  102.6  0.077  1.445  0.006 1061.   51.     -1.0  0.0420  0.72  0.21  0.50  298.0  15.0  286.0  2.0  0  0.00  37.  1011.  2 NAD-SFC NoSubs
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 8  2 15  46 16   62.2  0.124  1.236  0.006 1093.  105.     -2.8  0.0800  0.72  0.24  1.00  306.0  15.0  286.0  2.0   0  0.00  38.  1010.   2 NAD-SFC NoSubs
 8  2 15  46 17   12.1  0.104  0.717  0.006 1099.   81.     -8.4  0.0800  0.72  0.36  1.00  324.0  15.0  285.8  2.0   0  0.00  41.  1010.   2 NAD-SFC NoSubs
 8  2 15  46 18   -2.8  0.085 -9.000 -9.000 -999.   59.     19.5  0.0800  0.72  0.73  1.00  326.0  15.0  284.8  2.0   0  0.00  46.  1011.   2 NAD-SFC NoSubs
 8  2 15  46 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  283.5  2.0   0  0.00  51.  1011.   2 NAD-SFC NoSubs
 8  2 15  46 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.2  2.0   0  0.00  58.  1011.   2 NAD-SFC NoSubs
 8  2 15  46 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  281.1  2.0   0  0.00  63.  1012.   2 NAD-SFC NoSubs
 8  2 15  46 22   -1.0  0.068 -9.000 -9.000 -999.   42.     26.9  0.0310  0.72  1.00  0.50   94.0  15.0  280.0  2.0   0  0.00  69.  1012.   2 NAD-SFC NoSubs
 8  2 15  46 23   -1.0  0.068 -9.000 -9.000 -999.   42.     27.0  0.0310  0.72  1.00  0.50   90.0  15.0  279.2  2.0   0  0.00  73.  1012.   2 NAD-SFC NoSubs
 8  2 15  46 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  278.8  2.0   0  0.00  75.  1012.   2 NAD-SFC NoSubs
 8  2 16  47  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  278.4  2.0   0  0.00  75.  1012.   2 NAD-SFC NoSubs
 8  2 16  47  2   -1.1  0.070 -9.000 -9.000 -999.   44.     27.8  0.0420  0.72  1.00  0.50  281.0  15.0  278.1  2.0   0  0.00  75.  1012.   2 NAD-SFC NoSubs
 8  2 16  47  3   -4.5  0.095 -9.000 -9.000 -999.   71.     17.3  0.0420  0.72  1.00  1.50  282.0  15.0  277.8  2.0   0  0.00  74.  1012.   2 NAD-SFC NoSubs
 8  2 16  47  4  -23.0  0.220 -9.000 -9.000 -999.  248.     41.8  0.0800  0.72  1.00  3.10  304.0  15.0  277.5  2.0   0  0.00  73.  1012.   2 NAD-SFC NoSubs
 8  2 16  47  5  -23.0  0.220 -9.000 -9.000 -999.  248.     41.8  0.0800  0.72  1.00  3.10  301.0  15.0  276.9  2.0   0  0.00  74.  1012.   2 NAD-SFC NoSubs
 8  2 16  47  6  -19.1  0.194 -9.000 -9.000 -999.  206.     34.8  0.0420  0.72  1.00  3.10  299.0  15.0  276.5  2.0   0  0.00  74.  1013.   2 NAD-SFC NoSubs
 8  2 16  47  7  -13.2  0.161 -9.000 -9.000 -999.  155.     28.3  0.0420  0.72  1.00  2.60  295.0  15.0  276.2  2.0   0  0.00  73.  1013.   2 NAD-SFC NoSubs
 8  2 16  47  8   -6.0  0.150 -9.000 -9.000 -999.  140.     51.4  0.0800  0.72  0.45  2.10  300.0  15.0  276.8  2.0   0  0.00  69.  1014.   2 NAD-SFC NoSubs
 8  2 16  47  9   42.7  0.119  0.494  0.009  102.   99.     -3.6  0.0800  0.72  0.27  1.00  308.0  15.0  278.8  2.0   0  0.00  60.  1014.   2 NAD-SFC NoSubs
 8  2 16  47 10   88.2 -9.000 -9.000 -9.000  238. -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0  281.0  2.0   0  0.00  54.  1014.   2 NAD-SFC NoSubs
 8  2 16  47 11  121.1 -9.000 -9.000 -9.000  425. -999. -99999.0  0.0471  0.72  0.20  0.00    0.0  15.0  283.2  2.0   0  0.00  47.  1014.   2 NAD-SFC NoSubs
 8  2 16  47 12  139.4 -9.000 -9.000 -9.000  627. -999. -99999.0  0.0471  0.72  0.19  0.00    0.0  15.0  284.8  2.0   0  0.00  44.  1013.   2 NAD-SFC NoSubs
 8  2 16  47 13  142.7 -9.000 -9.000 -9.000  724. -999. -99999.0  0.0471  0.72  0.19  0.00    0.0  15.0  286.1  2.0   0  0.00  41.  1011.   2 NAD-SFC NoSubs
 8  2 16  47 14  131.0 -9.000 -9.000 -9.000  792. -999. -99999.0  0.0471  0.72  0.19  0.00    0.0  15.0  287.2  2.0   0  0.00  38.  1010.   2 NAD-SFC NoSubs
 8  2 16  47 15  104.3  0.077  1.346  0.009  842.   51.     -1.0  0.0420  0.72  0.21  0.50  276.0  15.0  287.8  2.0   0  0.00  36.  1010.   2 NAD-SFC NoSubs
 8  2 16  47 16   63.9  0.081  1.157  0.008  871.   55.     -1.0  0.0800  0.72  0.24  0.50  310.0  15.0  287.9  2.0   0  0.00  35.  1009.   2 NAD-SFC NoSubs
 8  2 16  47 17   13.6  0.069  0.693  0.008  877.   43.     -2.1  0.0950  0.72  0.35  0.50  332.0  15.0  287.6  2.0   0  0.00  40.  1009.   2 NAD-SFC NoSubs
 8  2 16  47 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.72  0.00    0.0  15.0  286.4  2.0   0  0.00  45.  1009.   2 NAD-SFC NoSubs
 8  2 16  47 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  284.9  2.0   0  0.00  52.  1009.   2 NAD-SFC NoSubs
 8  2 16  47 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  283.8  2.0   0  0.00  57.  1009.   2 NAD-SFC NoSubs
 8  2 16  47 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.5  2.0   0  0.00  63.  1009.   2 NAD-SFC NoSubs
 8  2 16  47 22   -1.1  0.069 -9.000 -9.000 -999.   43.     27.5  0.0400  0.72  1.00  0.50   79.0  15.0  281.5  2.0   0  0.00  68.  1010.   2 NAD-SFC NoSubs
 8  2 16  47 23   -1.0  0.067 -9.000 -9.000 -999.   42.     26.9  0.0310  0.72  1.00  0.50   91.0  15.0  280.6  2.0   0  0.00  72.  1010.   2 NAD-SFC NoSubs
 8  2 16  47 24   -1.0  0.068 -9.000 -9.000 -999.   42.     26.9  0.0310  0.72  1.00  0.50   94.0  15.0  280.0  2.0   0  0.00  74.  1010.   2 NAD-SFC NoSubs
 8  2 17  48  1   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0400  0.72  1.00  0.50   86.0  15.0  279.4  2.0   0  0.00  76.  1010.   2 NAD-SFC NoSubs
 8  2 17  48  2   -1.0  0.068 -9.000 -9.000 -999.   42.     27.0  0.0310  0.72  1.00  0.50   92.0  15.0  278.8  2.0   0  0.00  78.  1009.   2 NAD-SFC NoSubs
 8  2 17  48  3   -1.0  0.068 -9.000 -9.000 -999.   42.     27.0  0.0310  0.72  1.00  0.50  101.0  15.0  278.2  2.0   0  0.00  80.  1009.   2 NAD-SFC NoSubs
 8  2 17  48  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  277.8  2.0   0  0.00  81.  1009.   2 NAD-SFC NoSubs
 8  2 17  48  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  277.4  2.0   0  0.00  82.  1010.   2 NAD-SFC NoSubs
 8  2 17  48  6   -1.2  0.074 -9.000 -9.000 -999.   49.     29.5  0.0800  0.72  1.00  0.50  307.0  15.0  277.1  2.0   0  0.00  82.  1010.   2 NAD-SFC NoSubs
 8  2 17  48  7   -1.1  0.070 -9.000 -9.000 -999.   44.     27.8  0.0420  0.72  1.00  0.50  285.0  15.0  276.9  2.0   0  0.00  82.  1010.   2 NAD-SFC NoSubs
 8  2 17  48  8   -0.3  0.041 -9.000 -9.000 -999.   20.     17.9  0.0220  0.72  0.44  0.50  231.0  15.0  277.2  2.0   0  0.00  81.  1011.   2 NAD-SFC NoSubs
 8  2 17  48  9   44.3 -9.000 -9.000 -9.000   84. -999. -99999.0  0.0471  0.72  0.27  0.00    0.0  15.0  280.8  2.0   0  0.00  64.  1011.   2 NAD-SFC NoSubs
 8  2 17  48 10   89.9 -9.000 -9.000 -9.000  254. -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0  283.1  2.0   0  0.00  58.  1011.   2 NAD-SFC NoSubs
 8  2 17  48 11  122.9 -9.000 -9.000 -9.000  445. -999. -99999.0  0.0471  0.72  0.20  0.00    0.0  15.0  285.4  2.0   0  0.00  49.  1011.   2 NAD-SFC NoSubs
 8  2 17  48 12  141.2 -9.000 -9.000 -9.000  620. -999. -99999.0  0.0471  0.72  0.19  0.00    0.0  15.0  286.8  2.0   0  0.00  45.  1009.   2 NAD-SFC NoSubs
 8  2 17  48 13  144.5  0.090  1.426  0.009  723.   65.     -1.0  0.0800  0.72  0.19  0.50  308.0  15.0  288.0  2.0   0  0.00  43.  1009.   2 NAD-SFC NoSubs
 8  2 17  48 14  132.8  0.141  1.432  0.009  795.  127.     -1.9  0.0950  0.72  0.19  1.00  334.0  15.0  289.0  2.0   0  0.00  41.  1008.   2 NAD-SFC NoSubs
 8  2 17  48 15  106.1  0.178  1.358  0.009  849.  181.     -4.8  0.0950  0.72  0.20  1.50  344.0  15.0  289.5  2.0   0  0.00  40.  1007.   2 NAD-SFC NoSubs
 8  2 17  48 16   65.6  0.252  1.171  0.009  880.  303.    -21.8  0.0960  0.72  0.24  2.60    2.0  15.0  289.4  2.0   0  0.00  43.  1007.   2 NAD-SFC NoSubs
 8  2 17  48 17   15.0  0.227  0.718  0.009  886.  260.    -70.2  0.0960  0.72  0.35  2.60    9.0  15.0  288.8  2.0   0  0.00  49.  1007.   2 NAD-SFC NoSubs
 8  2 17  48 18  -10.6  0.150 -9.000 -9.000 -999.  142.     28.9  0.0960  0.72  0.71  2.10   19.0  15.0  287.5  2.0   0  0.00  54.  1007.   2 NAD-SFC NoSubs
 8  2 17  48 19   -1.2  0.072 -9.000 -9.000 -999.   49.     28.6  0.0650  0.72  1.00  0.50   34.0  15.0  286.1  2.0   0  0.00  60.  1008.   2 NAD-SFC NoSubs
 8  2 17  48 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  284.8  2.0   0  0.00  66.  1008.   2 NAD-SFC NoSubs
 8  2 17  48 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  283.8  2.0   0  0.00  72.  1008.   2 NAD-SFC NoSubs
 8  2 17  48 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.9  2.0   0  0.00  76.  1009.   2 NAD-SFC NoSubs
 8  2 17  48 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.2  2.0   0  0.00  79.  1009.   2 NAD-SFC NoSubs
 8  2 17  48 24   -1.2  0.072 -9.000 -9.000 -999.   47.     28.7  0.0650  0.72  1.00  0.50   36.0  15.0  281.9  2.0   0  0.00  81.  1009.   2 NAD-SFC NoSubs
 8  2 18  49  1   -1.2  0.072 -9.000 -9.000 -999.   47.     28.8  0.0650  0.72  1.00  0.50   53.0  15.0  281.6  2.0   0  0.00  81.  1009.   2 NAD-SFC NoSubs
 8  2 18  49  2   -1.2  0.072 -9.000 -9.000 -999.   47.     28.8  0.0650  0.72  1.00  0.50   53.0  15.0  281.2  2.0   0  0.00  82.  1009.   2 NAD-SFC NoSubs
 8  2 18  49  3   -1.2  0.074 -9.000 -9.000 -999.   48.     29.3  0.0800  0.72  1.00  0.50  313.0  15.0  281.0  2.0   0  0.00  82.  1009.   2 NAD-SFC NoSubs
 8  2 18  49  4   -3.0  0.087 -9.000 -9.000 -999.   62.     20.0  0.0950  0.72  1.00  1.00  344.0  15.0  280.6  2.0   0  0.00  83.  1009.   2 NAD-SFC NoSubs
 8  2 18  49  5   -8.4  0.128 -9.000 -9.000 -999.  110.     22.4  0.0420  0.72  1.00  2.10  297.0  15.0  280.4  2.0   0  0.00  83.  1009.   2 NAD-SFC NoSubs
 8  2 18  49  6  -22.8  0.220 -9.000 -9.000 -999.  248.     42.1  0.0800  0.72  1.00  3.10  310.0  15.0  280.5  2.0   0  0.00  82.  1009.   2 NAD-SFC NoSubs
 8  2 18  49  7  -15.9  0.182 -9.000 -9.000 -999.  187.     34.3  0.0800  0.72  1.00  2.60  300.0  15.0  280.2  2.0   0  0.00  83.  1010.   2 NAD-SFC NoSubs
 8  2 18  49  8   -5.4  0.190 -9.000 -9.000 -999.  198.    114.6  0.0800  0.72  0.44  2.60  304.0  15.0  280.6  2.0   0  0.00  80.  1010.   2 NAD-SFC NoSubs
 8  2 18  49  9   45.9  0.237  0.504  0.009  101.  277.    -26.1  0.0800  0.72  0.27  2.60  318.0  15.0  282.6  2.0   0  0.00  68.  1010.   2 NAD-SFC NoSubs
 8  2 18  49 10   91.5  0.170  0.886  0.009  274.  169.     -4.8  0.0800  0.72  0.21  1.50  318.0  15.0  284.4  2.0   0  0.00  60.  1009.   2 NAD-SFC NoSubs
 8  2 18  49 11  124.5  0.176  1.145  0.008  434.  177.     -3.9  0.0800  0.72  0.20  1.50  319.0  15.0  286.5  2.0   0  0.00  51.  1009.   2 NAD-SFC NoSubs
 8  2 18  49 12  142.8  0.178  1.306  0.007  561.  181.     -3.6  0.0800  0.72  0.19  1.50  317.0  15.0  287.9  2.0   0  0.00  46.  1008.   2 NAD-SFC NoSubs
 8  2 18  49 13  146.0  0.224  1.396  0.007  670.  255.     -7.0  0.0800  0.72  0.19  2.10  326.0  15.0  288.8  2.0   0  0.00  43.  1008.   2 NAD-SFC NoSubs
 8  2 18  49 14  134.1  0.267  1.429  0.007  782.  331.    -12.7  0.0950  0.72  0.19  2.60  337.0  15.0  289.2  2.0   0  0.00  42.  1007.   2 NAD-SFC NoSubs
 8  2 18  49 15  107.2  0.262  1.369  0.007  860.  321.    -15.0  0.0950  0.72  0.20  2.60  341.0  15.0  289.1  2.0   0  0.00  45.  1007.   2 NAD-SFC NoSubs
 8  2 18  49 16   66.6  0.252  1.188  0.007  905.  303.    -21.5  0.0950  0.72  0.24  2.60  346.0  15.0  288.8  2.0   0  0.00  51.  1007.   2 NAD-SFC NoSubs
 8  2 18  49 17   15.9  0.191  0.740  0.007  914.  202.    -39.5  0.0950  0.72  0.35  2.10  349.0  15.0  288.2  2.0   0  0.00  53.  1007.   2 NAD-SFC NoSubs
 8  2 18  49 18   -5.4  0.108 -9.000 -9.000 -999.   88.     21.0  0.0950  0.72  0.70  1.50  333.0  15.0  287.6  2.0   0  0.00  55.  1008.   2 NAD-SFC NoSubs
 8  2 18  49 19   -5.2  0.105 -9.000 -9.000 -999.   82.     20.0  0.0800  0.72  1.00  1.50  310.0  15.0  286.8  2.0   0  0.00  57.  1008.   2 NAD-SFC NoSubs
 8  2 18  49 20   -8.3  0.128 -9.000 -9.000 -999.  110.     22.6  0.0420  0.72  1.00  2.10  294.0  15.0  285.8  2.0   0  0.00  60.  1008.   2 NAD-SFC NoSubs
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8	2	18	49	21	-8.3	0.128	-9.000	-9.000	-999.	110.	22.6	0.0420	0.72	1.00	2.10	298.0	15.0	284.8	2.0	0	0.00	61.	1008.	2	NAD-SFC	NoSubs
8	2	18	49	22	-10.1	0.145	-9.000	-9.000	-999.	132.	27.0	0.0800	0.72	1.00	2.10	313.0	15.0	284.0	2.0	0	0.00	62.	1009.	2	NAD-SFC	NoSubs
8	2	18	49	23	-10.7	0.150	-9.000	-9.000	-999.	139.	28.4	0.0950	0.72	1.00	2.10	332.0	15.0	283.2	2.0	0	0.00	63.	1009.	2	NAD-SFC	NoSubs
8	2	18	49	24	-5.5	0.108	-9.000	-9.000	-999.	86.	20.7	0.0950	0.72	1.00	1.50	345.0	15.0	282.4	2.0	0	0.00	65.	1009.	2	NAD-SFC	NoSubs
8	2	19	50	1	-5.3	0.105	-9.000	-9.000	-999.	82.	19.9	0.0800	0.72	1.00	1.50	319.0	15.0	281.8	2.0	0	0.00	67.	1010.	2	NAD-SFC	NoSubs
8	2	19	50	2	-15.8	0.182	-9.000	-9.000	-999.	187.	34.4	0.0800	0.72	1.00	2.60	309.0	15.0	281.1	2.0	0	0.00	68.	1010.	2	NAD-SFC	NoSubs
8	2	19	50	3	-13.1	0.161	-9.000	-9.000	-999.	155.	28.6	0.0420	0.72	1.00	2.60	298.0	15.0	280.5	2.0	0	0.00	69.	1010.	2	NAD-SFC	NoSubs
8	2	19	50	4	-13.1	0.161	-9.000	-9.000	-999.	155.	28.5	0.0420	0.72	1.00	2.60	296.0	15.0	280.0	2.0	0	0.00	69.	1010.	2	NAD-SFC	NoSubs
8	2	19	50	5	-8.4	0.128	-9.000	-9.000	-999.	110.	22.4	0.0420	0.72	1.00	2.10	299.0	15.0	279.8	2.0	0	0.00	68.	1010.	2	NAD-SFC	NoSubs
8	2	19	50	6	-4.5	0.095	-9.000	-9.000	-999.	71.	17.3	0.0420	0.72	1.00	1.50	288.0	15.0	279.6	2.0	0	0.00	67.	1011.	2	NAD-SFC	NoSubs
8	2	19	50	7	-1.1	0.069	-9.000	-9.000	-999.	43.	27.5	0.0420	0.72	1.00	0.50	270.0	15.0	279.4	2.0	0	0.00	66.	1011.	3	NAD-SFC	NoSubs
8	2	19	50	8	23.6	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	0.43	0.00	0.0	15.0	279.6	2.0	0	0.00	65.	1011.	3	NAD-SFC	NoSubs
8	2	19	50	9	48.2	0.069	0.609	0.010	169.	44.	-1.0	0.0420	0.72	0.26	0.50	294.0	15.0	281.0	2.0	0	0.00	55.	1011.	3	NAD-SFC	NoSubs
8	2	19	50	10	93.2	0.076	0.894	0.008	276.	50.	-1.0	0.0420	0.72	0.21	0.50	271.0	15.0	282.2	2.0	0	0.00	52.	1012.	3	NAD-SFC	NoSubs
8	2	19	50	11	125.7	-9.000	-9.000	-9.000	390.	-999.	-99999.0	0.0471	0.72	0.19	0.00	0.0	15.0	283.8	2.0	0	0.00	46.	1011.	3	NAD-SFC	NoSubs
8	2	19	50	12	143.8	0.090	1.325	0.006	584.	65.	-1.0	0.0800	0.72	0.19	0.50	323.0	15.0	285.4	2.0	0	0.00	41.	1011.	3	NAD-SFC	NoSubs
8	2	19	50	13	147.0	0.094	1.440	0.006	733.	69.	-1.0	0.0950	0.72	0.19	0.50	332.0	15.0	286.2	2.0	0	0.00	39.	1010.	3	NAD-SFC	NoSubs
8	2	19	50	14	135.1	0.141	1.470	0.006	848.	127.	-1.9	0.0950	0.72	0.19	1.00	342.0	15.0	286.8	2.0	0	0.00	39.	1010.	3	NAD-SFC	NoSubs
8	2	19	50	15	108.6	0.137	1.411	0.006	931.	122.	-2.1	0.0950	0.72	0.20	1.00	337.0	15.0	287.1	2.0	0	0.00	39.	1009.	3	NAD-SFC	NoSubs
8	2	19	50	16	68.5	0.170	1.230	0.007	979.	168.	-6.4	0.0950	0.72	0.24	1.50	337.0	15.0	287.2	2.0	0	0.00	51.	1009.	3	NAD-SFC	NoSubs
8	2	19	50	17	18.2	0.149	0.794	0.007	990.	139.	-16.5	0.0950	0.72	0.34	1.50	354.0	15.0	286.9	2.0	0	0.00	54.	1009.	3	NAD-SFC	NoSubs
8	2	19	50	18	-5.3	0.108	-9.000	-9.000	-999.	85.	21.2	0.0960	0.72	0.68	1.50	7.0	15.0	286.2	2.0	0	0.00	57.	1009.	3	NAD-SFC	NoSubs
8	2	19	50	19	-1.2	0.074	-9.000	-9.000	-999.	48.	29.4	0.0960	0.72	1.00	0.50	22.0	15.0	285.5	2.0	0	0.00	61.	1010.	3	NAD-SFC	NoSubs
8	2	19	50	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	284.6	2.0	0	0.00	66.	1010.	3	NAD-SFC	NoSubs
8	2	19	50	21	-0.9	0.064	-9.000	-9.000	-999.	39.	25.6	0.0200	0.72	1.00	0.50	248.0	15.0	283.9	2.0	0	0.00	71.	1010.	3	NAD-SFC	NoSubs
8	2	19	50	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	283.6	2.0	0	0.00	73.	1011.	4	NAD-SFC	NoSubs
8	2	19	50	23	-1.1	0.070	-9.000	-9.000	-999.	45.	28.0	0.0650	0.72	1.00	0.50	47.0	15.0	283.4	2.0	0	0.00	75.	1011.	4	NAD-SFC	NoSubs
8	2	19	50	24	-2.4	0.080	-9.000	-9.000	-999.	55.	19.4	0.0960	0.72	1.00	1.00	28.0	15.0	283.2	2.0	0	0.00	77.	1011.	7	NAD-SFC	NoSubs
8	2	20	51	1	-3.5	0.099	-9.000	-9.000	-999.	75.	25.4	0.0650	0.72	1.00	1.50	48.0	15.0	283.2	2.0	0	0.00	78.	1011.	10	NAD-SFC	NoSubs
8	2	20	51	2	-7.0	0.143	-9.000	-9.000	-999.	129.	37.5	0.0650	0.72	1.00	2.10	53.0	15.0	283.1	2.0	0	0.00	80.	1011.	10	NAD-SFC	NoSubs
8	2	20	51	3	-7.0	0.143	-9.000	-9.000	-999.	129.	37.4	0.0650	0.72	1.00	2.10	54.0	15.0	282.9	2.0	0	0.00	82.	1010.	10	NAD-SFC	NoSubs
8	2	20	51	4	-1.6	0.069	-9.000	-9.000	-999.	45.	18.5	0.0650	0.72	1.00	1.00	51.0	15.0	282.9	2.0	0	0.00	83.	1010.	10	NAD-SFC	NoSubs
8	2	20	51	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	282.9	2.0	0	0.00	84.	1010.	10	NAD-SFC	NoSubs
8	2	20	51	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	282.8	2.0	0	0.00	85.	1010.	10	NAD-SFC	NoSubs
8	2	20	51	7	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	282.8	2.0	0	0.00	88.	1010.	8	NAD-SFC	NoSubs
8	2	20	51	8	0.7	0.071	0.079	0.005	25.	45.	-45.6	0.0280	0.72	0.42	1.00	135.0	15.0	282.8	2.0	0	0.25	90.	1010.	8	NAD-SFC	NoSubs
8	2	20	51	9	42.2	0.096	0.689	0.005	279.	71.	-1.9	0.0220	0.72	0.26	1.00	192.0	15.0	283.6	2.0	0	0.25	89.	1010.	7	NAD-SFC	NoSubs
8	2	20	51	10	86.7	0.151	1.104	0.007	559.	141.	-3.6	0.0420	0.72	0.21	1.50	287.0	15.0	284.8	2.0	0	0.25	85.	1010.	6	NAD-SFC	NoSubs
8	2	20	51	11	122.6	0.293	1.344	0.007	714.	380.	-18.4	0.0800	0.72	0.19	3.10	313.0	15.0	286.2	2.0	0	0.00	75.	1009.	5	NAD-SFC	NoSubs
8	2	20	51	12	117.6	0.327	1.372	0.006	791.	449.	-26.8	0.0800	0.72	0.19	3.60	322.0	15.0	287.1	2.0	0	0.00	67.	1009.	7	NAD-SFC	NoSubs
8	2	20	51	13	34.4	0.275	0.919	0.006	813.	348.	-54.5	0.0950	0.72	0.19	3.10	338.0	15.0	287.8	2.0	0	0.00	62.	1008.	10	NAD-SFC	NoSubs
8	2	20	51	14	31.4	0.310	0.900	0.006	832.	414.	-85.3	0.0950	0.72	0.19	3.60	350.0	15.0	288.0	2.0	0	0.00	59.	1007.	10	NAD-SFC	NoSubs
8	2	20	51	15	24.7	0.343	0.835	0.006	847.	483.	-147.2	0.0950	0.72	0.20	4.10	354.0	15.0	288.1	2.0	0	0.00	60.	1007.	10	NAD-SFC	NoSubs
8	2	20	51	16	14.4	0.337	0.701	0.006	855.	470.	-238.1	0.0950	0.72	0.24	4.10	356.0	15.0	287.9	2.0	0	0.00	64.	1007.	10	NAD-SFC	NoSubs
8	2	20	51	17	18.3	-9.000	-9.000	-9.000	865.	-999.	-99999.0	0.0471	0.72	0.34	0.00	0.0	15.0	287.4	2.0	0	0.00	70.	1006.	7	NAD-SFC	NoSubs
8	2	20	51	18	-20.0	0.231	-9.000	-9.000	-999.	266.	55.1	0.0960	0.72	0.67	3.10	7.0	15.0	286.5	2.0	0	0.00	73.	1007.	6	NAD-SFC	NoSubs
8	2	20	51	19	-9.0	0.153	-9.000	-9.000	-999.	145.	35.4	0.0960	0.72	1.00	2.10	25.0	15.0	285.6	2.0	0	0.00	75.	1007.	8	NAD-SFC	NoSubs
8	2	20	51	20	-1.6	0.069	-9.000	-9.000	-999.	47.	18.5	0.0650	0.72	1.00	1.00	51.0	15.0	284.6	2.0	0	0.00	79.	1007.	10	NAD-SFC	NoSubs
8	2	20	51	21	-0.5	0.049	-9.000	-9.000	-999.	26.	20.7	0.0240	0.72	1.00	0.50	175.0	15.0	284.0	2.0	0	0.00	82.	1008.	10	NAD-SFC	NoSubs
8	2	20	51	22	-1.3	0.060	-9.000	-9.000	-999.	35.	15.3	0.0220	0.72	1.00	1.00	206.0	15.0	283.6	2.0	0	0.00	85.	1008.	10	NAD-SFC	NoSubs
8	2	20	51	23	-1.3	0.060	-9.000	-9.000	-999.	35.	15.3	0.0220	0.72	1.00	1.00	186.0	15.0	283.2	2.0	0	0.00	88.	1008.	10	NAD-SFC	NoSubs
8	2	20	51	24	-1.7	0.067	-9.000	-9.000	-999.	42.	15.8	0.0220	0.72	1.00	1.00	180.0	15.0	282.9	2.0	0	0.00	90.	1008.	7	NAD-SFC	NoSubs
8	2	21	52	1	-1.6	0.065	-9.000	-9.000	-999.	40.	15.6	0.0220	0.72	1.00	1.00	180.0	15.0	282.6	2.0	0	0.00	91.	1008.	8	NAD-SFC	NoSubs
8	2	21	52	2	-0.5	0.049	-9.000	-9.000	-999.	26.	20.6	0.0220	0.72	1.00	0.50	184.0	15.0	282.2	2.0	0	0.00	92.	1008.	10	NAD-SFC	NoSubs
8	2	21	52	3	-0.5	0.049	-9.000	-9.000	-999.	26.	20.6	0.0220	0.72	1.00	0.50	188.0	15.0	282.2	2.0	0	0.00	93.	1008.	10	NAD-SFC	NoSubs
8	2	21	52	4	-0.7	0.057	-9.000	-9.000	-999.	33.	23.4	0.0280	0.72	1.00	0.50	128.0	15.0	282.2	2.0	0	0.00	93.	1007.	8	NAD-SFC	NoSubs
8	2	21	52	5	-1.7	0.067	-9.000	-9.000	-999.	42.	16.1	0.0280	0.72	1.00	1.00	144.0	15.0	282.2	2.0	0	0.00	94.	1007.	8	NAD-SFC	NoSubs
8	2	21	52	6	-3.2	0.086	-9.000	-9.000	-999.	61.	17.7	0.0280	0.72	1.00	1.50	128.0	15.0	282.1	2.0	0	0.00	94.	1008.	8	NAD-SFC	NoSubs
8	2	21	52	7	-11.4	0.150	-9.000	-9.000	-999.	140.	26.8	0.0280	0.72	1.00	2.60	134.0	15.0	282.1	2.0	0	0.00	94.	1008.	4	NAD-SFC	NoSubs
8	2	21	52	8	1.0	0.200	0.084	0.005	22.	214.	-730.3	0.0280	0.72	0.42	3.10	146.0	15.0	282.2	2.0	0	0.00	93.	1008.	4	NAD-SFC	NoSubs
8	2	21	52	9	51.6	0.255	0.765	0.005	311.	310.	-29.1	0.0240	0.72	0.26	3.60	154.0	15.0	282.9	2.0	0	0.25	88.	1008.	4	NAD-SFC	NoSubs
8	2	21	52	10	95.7	0.242	1.142	0.005	559.	287.	-13.4	0.0280	0.72	0.21	3.10	146.0	15.0	283.6	2.0	0	0.25	84.	1007.	4	NAD-SFC	NoSubs
8	2	21	52	11	127.2	0.278	1.393	0.005	764.	352.	-15.2	0.0280	0.72	0.19	3.60	142.0	15.0	284.2	2.0	0	0.51	80.	1007.	4	NAD-SFC	NoSubs
8	2	21	52	12	140.2	0.250	1.544	0.005	944.	300.	-10.0	0.0280	0.72	0.19	3.10	144.0	15.0	284.9	2.0	0	0.25	75.	1006.	5	NAD-SFC	NoSubs
8	2	21	52	13	134.4	0.218	1.598	0.005	1090.	245.	-6.9	0.0280	0.72	0.19	2.60	141.0	15.0	285.5	2.0	0	0.00	70.	1005.	6	NAD-SFC	NoSubs
8	2	21	52	14	92.1	0.181	1.447	0.005	1180.	185.	-5.7	0.0280	0.72	0.19	2.10	143.0	15.0	285.6	2.0	0	0.25	71.	1004.	8	NAD-SFC	NoSubs
8	2	21	52	15	24.2	0.125	0.933	0.005	1203.	107.	-7.3	0.0280	0.72	0.20	1.50	128.0	15.0	285.2	2.0	0	0.25	74.	1003.	10	NAD-SFC	NoSubs
8	2	21	52	16	13.9	0.090	0.779	0.005	1215.	65.	-4.7	0.0310	0.72	0.23	1.00	98.0	15.0	284.9	2.0	0	0.25	80.	1002.	10	NAD-SFC	NoSubs
8	2	21	52	17	1.0	0.045	0.327	0.005	1215.	23.	-7.8	0.0400	0.72	0.33	0.50	78.0	15.0	284.4	2.0	0	0.51	86.	1002.	10	NAD-SFC	NoSubs
8	2	21	52	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	0.67	0.00	0.0	15.0	284.1	2.0	0	0.51	90.	1002.	10	NAD-SFC	NoSubs
8	2	21	52	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	283.9	2.0	0	0.76	93.	1002.	10	NAD-SFC	NoSubs
8	2	21	52	20	-0.7	0.057	-9.000	-9.000	-999.	32.	23.8	0.0960	0.72	1.00	0.50	14.0	15.0	283.8	2.0	0	0.76	95.	1002.	10	NAD-SFC	NoSubs
8	2	21	52	21	-0.6	0.052	-9.000	-9.000	-999.	28.	21.8	0.0400	0.72	1.00	0.50	69.0	15.0	283.8	2.0	0	0.51	96.	1002.	10	NAD-SFC	NoSubs
8	2	21	52	22	-0.5	0.050	-9.000	-9.000	-999.	27.	21.0	0.0280	0.72	1.00	0.50	133.0	15.0	283.9	2.0	0	0.51	97.	1002.	10	NAD-SFC	NoSubs
8	2	21	52	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	283.9	2.0	0	0.25	97.	1002.	8	NAD-SFC	NoSubs
8	2	21	52	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	283.8	2.0	0	0.00	97.	1002.	10	NAD-SFC	NoSubs
8	2	22	53	1	-0.6	0.054	-9.000	-9.000	-999.	30.	22.9	0.0650	0.72	1.00	0.50	46.0	15.0	283.5	2.0	0	0.00	98.	1002.	10	NAD-SFC	NoSubs

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 8  2 22  53  2   -1.0  0.067 -9.000 -9.000 -999.   41.     26.9  0.0650  0.72  1.00  0.50   50.0  15.0 283.5  2.0   0  0.51   98.  1002.    6 NAD-SFC NoSubs
 8  2 22  53  3   -1.0  0.065 -9.000 -9.000 -999.   40.     26.3  0.0400  0.72  1.00  0.50   60.0  15.0 283.5  2.0   0  1.52   99.  1002.    5 NAD-SFC NoSubs
 8  2 22  53  4   -1.0  0.065 -9.000 -9.000 -999.   40.     26.3  0.0400  0.72  1.00  0.50   66.0  15.0 283.8  2.0   0  1.52   98.  1002.    5 NAD-SFC NoSubs
 8  2 22  53  5   -0.9  0.064 -9.000 -9.000 -999.   39.     26.2  0.0650  0.72  1.00  0.50   54.0  15.0 283.8  2.0   0  1.02  100.  1002.    7 NAD-SFC NoSubs
 8  2 22  53  6   -1.0  0.067 -9.000 -9.000 -999.   42.     27.1  0.0960  0.72  1.00  0.50   20.0  15.0 283.9  2.0   0  0.76   99.  1002.    7 NAD-SFC NoSubs
 8  2 22  53  7   -2.5  0.082 -9.000 -9.000 -999.   56.     19.5  0.0960  0.72  1.00  1.00   25.0  15.0 283.9  2.0   0  0.76  100.  1003.    6 NAD-SFC NoSubs
 8  2 22  53  8    3.6  0.133  0.170  0.005   49.  116.    -58.8  0.0960  0.72  0.41  1.50   20.0  15.0 283.8  2.0   0  1.02  100.  1003.    7 NAD-SFC NoSubs
 8  2 22  53  9   52.2  0.210  0.736  0.005  273.  231.    -15.9  0.0950  0.72  0.26  2.10  354.0  15.0 284.2  2.0   0  0.76   97.  1003.    5 NAD-SFC NoSubs
 8  2 22  53 10   94.8  0.215  1.096  0.005  497.  240.     -9.4  0.0800  0.72  0.21  2.10  317.0  15.0 285.8  2.0   0  0.51   83.  1003.    5 NAD-SFC NoSubs
 8  2 22  53 11  105.8  0.178  1.260  0.005  676.  181.     -4.8  0.0950  0.72  0.19  1.50  344.0  15.0 287.5  2.0   0  0.51   68.  1003.    7 NAD-SFC NoSubs
 8  2 22  53 12   34.5  0.138  0.885  0.006  717.  123.     -6.8  0.0420  0.72  0.19  1.50  286.0  15.0 288.5  2.0   0  0.76   58.  1002.   10 NAD-SFC NoSubs
 8  2 22  53 13  136.6  0.265  1.484  0.006  857.  328.    -12.2  0.0420  0.72  0.19  3.10  279.0  15.0 289.2  2.0   0  0.76   52.  1002.    6 NAD-SFC NoSubs
 8  2 22  53 14  138.3  0.392  1.558  0.005  978.  590.    -39.0  0.0420  0.72  0.19  5.10  274.0  15.0 289.8  2.0   0  0.51   49.  1001.    4 NAD-SFC NoSubs
 8  2 22  53 15  112.2  0.426  1.491  0.005 1056.  666.    -61.3  0.0420  0.72  0.20  5.70  284.0  15.0 289.6  2.0   0  0.51   50.  1001.    4 NAD-SFC NoSubs
 8  2 22  53 16   72.6  0.347  1.308  0.005 1103.  495.    -51.5  0.0420  0.72  0.23  4.60  282.0  15.0 289.2  2.0   0  0.25   56.  1002.    4 NAD-SFC NoSubs
 8  2 22  53 17   23.1  0.298  0.896  0.005 1116.  392.   -102.5  0.0420  0.72  0.33  4.10  283.0  15.0 288.2  2.0   0  0.00   63.  1002.    5 NAD-SFC NoSubs
 8  2 22  53 18  -29.6  0.328 -9.000 -9.000 -999.  451.    106.6  0.0200  0.72  0.66  5.70  261.0  15.0 286.4  2.0   0  0.00   70.  1003.    5 NAD-SFC NoSubs
 8  2 22  53 19  -34.7  0.358 -9.000 -9.000 -999.  513.    117.8  0.0200  0.72  1.00  6.20  258.0  15.0 284.5  2.0   0  0.00   77.  1004.    5 NAD-SFC NoSubs
 8  2 22  53 20  -34.9  0.358 -9.000 -9.000 -999.  513.    117.3  0.0200  0.72  1.00  6.20  266.0  15.0 283.4  2.0   0  0.00   79.  1005.    5 NAD-SFC NoSubs
 8  2 22  53 21  -34.0  0.371 -9.000 -9.000 -999.  542.    134.5  0.0420  0.72  1.00  5.70  276.0  15.0 283.1  2.0   0  0.00   79.  1005.    6 NAD-SFC NoSubs
 8  2 22  53 22  -28.0  0.331 -9.000 -9.000 -999.  458.    116.2  0.0420  0.72  1.00  5.10  279.0  15.0 282.9  2.0   0  0.00   80.  1006.    7 NAD-SFC NoSubs
 8  2 22  53 23  -27.3  0.297 -9.000 -9.000 -999.  388.     85.8  0.0420  0.72  1.00  4.60  285.0  15.0 282.2  2.0   0  0.00   83.  1006.    6 NAD-SFC NoSubs
 8  2 22  53 24  -22.9  0.232 -9.000 -9.000 -999.  270.     49.1  0.0200  0.72  1.00  4.10  267.0  15.0 281.4  2.0   0  0.00   85.  1007.    5 NAD-SFC NoSubs
 8  2 23  54  1  -20.0  0.202 -9.000 -9.000 -999.  219.     37.2  0.0200  0.72  1.00  3.60  266.0  15.0 280.8  2.0   0  0.00   87.  1007.    5 NAD-SFC NoSubs
 8  2 23  54  2  -14.4  0.173 -9.000 -9.000 -999.  173.     32.3  0.0200  0.72  1.00  3.10  268.0  15.0 280.1  2.0   0  0.00   88.  1007.    6 NAD-SFC NoSubs
 8  2 23  54  3   -9.2  0.144 -9.000 -9.000 -999.  131.     29.3  0.0200  0.72  1.00  2.60  260.0  15.0 279.8  2.0   0  0.00   88.  1007.    8 NAD-SFC NoSubs
 8  2 23  54  4   -5.1  0.116 -9.000 -9.000 -999.   95.     27.3  0.0200  0.72  1.00  2.10  249.0  15.0 279.9  2.0   0  0.00   86.  1008.   10 NAD-SFC NoSubs
 8  2 23  54  5   -1.2  0.059 -9.000 -9.000 -999.   35.     15.1  0.0200  0.72  1.00  1.00  241.0  15.0 280.2  2.0   0  0.00   85.  1008.   10 NAD-SFC NoSubs
 8  2 23  54  6   -0.7  0.056 -9.000 -9.000 -999.   32.     22.9  0.0220  0.72  1.00  0.50  183.0  15.0 280.4  2.0   0  0.00   84.  1008.    8 NAD-SFC NoSubs
 8  2 23  54  7   -1.0  0.065 -9.000 -9.000 -999.   40.     26.1  0.0280  0.72  1.00  0.50  135.0  15.0 280.6  2.0   0  0.00   84.  1008.    4 NAD-SFC NoSubs
 8  2 23  54  8    1.3 -9.000 -9.000 -9.000   24.  -999. -99999.0  0.0471  0.72  0.41  0.00    0.0  15.0 280.8  2.0   0  0.00   84.  1008.    3 NAD-SFC NoSubs
 8  2 23  54  9   52.1  0.098  0.733  0.005  271.   74.     -1.6  0.0220  0.72  0.26  1.00  182.0  15.0 281.2  2.0   0  0.00   80.  1008.    2 NAD-SFC NoSubs
 8  2 23  54 10   97.6  0.138  1.106  0.005  499.  123.     -2.4  0.0220  0.72  0.21  1.50  181.0  15.0 281.8  2.0   0  0.00   80.  1008.    2 NAD-SFC NoSubs
 8  2 23  54 11  130.6  0.113  1.359  0.005  692.   92.     -1.0  0.0280  0.72  0.19  1.00  149.0  15.0 282.5  2.0   0  0.25   78.  1008.    3 NAD-SFC NoSubs
 8  2 23  54 12  148.5  0.115  1.525  0.005  859.   94.     -1.0  0.0280  0.72  0.19  1.00  136.0  15.0 283.5  2.0   0  0.00   72.  1007.    3 NAD-SFC NoSubs
 8  2 23  54 13  149.8  0.115  1.617  0.005 1014.   94.     -1.0  0.0280  0.72  0.19  1.00  136.0  15.0 284.2  2.0   0  0.00   66.  1007.    4 NAD-SFC NoSubs
 8  2 23  54 14  133.8  0.187  1.636  0.007 1177.  195.     -4.4  0.0280  0.72  0.19  2.10  135.0  15.0 284.4  2.0   0  0.25   65.  1006.    5 NAD-SFC NoSubs
 8  2 23  54 15  102.2  0.244  1.541  0.008 1286.  289.    -12.7  0.0280  0.72  0.20  3.10  126.0  15.0 284.2  2.0   0  0.25   69.  1006.    6 NAD-SFC NoSubs
 8  2 23  54 16   14.3  0.185  0.804  0.008 1301.  193.    -39.9  0.0280  0.72  0.23  2.60  127.0  15.0 284.0  2.0   0  0.00   77.  1005.   10 NAD-SFC NoSubs
 8  2 23  54 17    1.4  0.235  0.367  0.008 1302.  274.   -858.5  0.0310  0.72  0.33  3.60  116.0  15.0 283.6  2.0   0  0.00   84.  1004.   10 NAD-SFC NoSubs
 8  2 23  54 18  -24.4  0.315 -9.000 -9.000 -999.  423.    114.2  0.0310  0.72  0.65  5.10  116.0  15.0 283.8  2.0   0  0.00   85.  1004.    7 NAD-SFC NoSubs
 8  2 23  54 19  -31.8  0.378 -9.000 -9.000 -999.  559.    152.7  0.0280  0.72  1.00  6.20  125.0  15.0 284.1  2.0   0  0.00   81.  1004.    7 NAD-SFC NoSubs
 8  2 23  54 20  -23.0  0.414 -9.000 -9.000 -999.  639.    276.2  0.0280  0.72  1.00  6.70  132.0  15.0 284.4  2.0   0  0.00   79.  1004.   10 NAD-SFC NoSubs
 8  2 23  54 21  -37.3  0.410 -9.000 -9.000 -999.  629.    165.0  0.0280  0.72  1.00  6.70  132.0  15.0 284.8  2.0   0  0.00   77.  1004.    6 NAD-SFC NoSubs
 8  2 23  54 22  -34.4  0.378 -9.000 -9.000 -999.  558.    140.5  0.0280  0.72  1.00  6.20  130.0  15.0 284.9  2.0   0  0.51   77.  1004.    6 NAD-SFC NoSubs
 8  2 23  54 23  -29.9  0.308 -9.000 -9.000 -999.  413.     87.5  0.0280  0.72  1.00  5.10  138.0  15.0 285.0  2.0   0  0.00   76.  1005.    5 NAD-SFC NoSubs
 8  2 23  54 24  -31.4  0.308 -9.000 -9.000 -999.  409.     83.0  0.0280  0.72  1.00  5.10  143.0  15.0 285.0  2.0   0  0.25   75.  1005.    4 NAD-SFC NoSubs
 8  2 24  55  1  -31.4  0.308 -9.000 -9.000 -999.  409.     83.0  0.0280  0.72  1.00  5.10  143.0  15.0 284.8  2.0   0  0.00   77.  1005.    4 NAD-SFC NoSubs
 8  2 24  55  2  -31.8  0.300 -9.000 -9.000 -999.  394.     75.8  0.0240  0.72  1.00  5.10  152.0  15.0 284.4  2.0   0  0.00   79.  1005.    3 NAD-SFC NoSubs
 8  2 24  55  3  -31.9  0.300 -9.000 -9.000 -999.  394.     75.7  0.0240  0.72  1.00  5.10  152.0  15.0 284.0  2.0   0  0.00   82.  1005.    3 NAD-SFC NoSubs
 8  2 24  55  4  -31.9  0.300 -9.000 -9.000 -999.  394.     75.6  0.0240  0.72  1.00  5.10  161.0  15.0 283.5  2.0   0  0.00   84.  1005.    3 NAD-SFC NoSubs
 8  2 24  55  5  -35.9  0.337 -9.000 -9.000 -999.  468.     95.1  0.0240  0.72  1.00  5.70  174.0  15.0 283.1  2.0   0  0.00   86.  1006.    3 NAD-SFC NoSubs
 8  2 24  55  6  -39.3  0.367 -9.000 -9.000 -999.  534.    113.2  0.0240  0.72  1.00  6.20  177.0  15.0 282.9  2.0   0  0.00   86.  1006.    3 NAD-SFC NoSubs
 8  2 24  55  7  -39.3  0.367 -9.000 -9.000 -999.  534.    113.1  0.0240  0.72  1.00  6.20  166.0  15.0 282.8  2.0   0  0.00   85.  1006.    3 NAD-SFC NoSubs
 8  2 24  55  8    3.2  0.357  0.126  0.005   22.  511.  -1274.7  0.0240  0.72  0.40  5.70  169.0  15.0 284.2  2.0   0  0.00   78.  1006.    3 NAD-SFC NoSubs
 8  2 24  55  9   56.3  0.432  0.655  0.005  179.  681.   -128.4  0.0220  0.72  0.25  6.70  191.0  15.0 287.5  2.0   0  0.00   61.  1006.    3 NAD-SFC NoSubs
 8  2 24  55 10  101.2  0.528  1.088  0.005  457.  920.   -130.7  0.0220  0.72  0.21  8.20  222.0  15.0 289.5  2.0   0  0.00   48.  1007.    4 NAD-SFC NoSubs
 8  2 24  55 11  134.1  0.533  1.542  0.005  982.  935.   -101.6  0.0220  0.72  0.19  8.20  230.0  15.0 290.4  2.0   0  0.00   44.  1007.    3 NAD-SFC NoSubs
 8  2 24  55 12  150.2  0.536  1.750  0.005 1282.  941.    -91.8  0.0220  0.72  0.19  8.20  229.0  15.0 290.8  2.0   0  0.00   43.  1006.    4 NAD-SFC NoSubs
 8  2 24  55 13  153.0  0.529  1.839  0.005 1462.  924.    -86.8  0.0200  0.72  0.19  8.20  241.0  15.0 290.8  2.0   0  0.00   45.  1006.    4 NAD-SFC NoSubs
 8  2 24  55 14  141.1  0.471  1.843  0.005 1595.  779.    -66.3  0.0200  0.72  0.19  7.20  245.0  15.0 290.6  2.0   0  0.00   48.  1006.    4 NAD-SFC NoSubs
 8  2 24  55 15  111.4  0.409  1.737  0.005 1691.  632.    -55.2  0.0200  0.72  0.20  6.20  255.0  15.0 290.1  2.0   0  0.00   55.  1006.    5 NAD-SFC NoSubs
 8  2 24  55 16   51.5  0.453  1.355  0.005 1732.  732.   -162.2  0.0200  0.72  0.23  7.20  253.0  15.0 289.4  2.0   0  0.00   58.  1006.    8 NAD-SFC NoSubs
 8  2 24  55 17    2.8  0.252  0.516  0.005 1731.  339.   -503.7  0.0200  0.72  0.32  4.10  252.0  15.0 288.2  2.0   0  0.00   68.  1007.   10 NAD-SFC NoSubs
 8  2 24  55 18   -9.4  0.179 -9.000 -9.000 -999.  185.     54.3  0.0220  0.72  0.64  3.10  234.0  15.0 287.5  2.0   0  0.00   70.  1008.   10 NAD-SFC NoSubs
 8  2 24  55 19  -10.1  0.145 -9.000 -9.000 -999.  133.     27.3  0.0220  0.72  1.00  2.60  224.0  15.0 286.8  2.0   0  0.00   72.  1009.    6 NAD-SFC NoSubs
 8  2 24  55 20  -14.0  0.176 -9.000 -9.000 -999.  177.     35.0  0.0220  0.72  1.00  3.10  214.0  15.0 286.0  2.0   0  0.00   75.  1009.    7 NAD-SFC NoSubs
 8  2 24  55 21  -14.6  0.176 -9.000 -9.000 -999.  177.     33.3  0.0220  0.72  1.00  3.10  231.0  15.0 285.2  2.0   0  0.00   80.  1010.    6 NAD-SFC NoSubs
 8  2 24  55 22   -3.3  0.084 -9.000 -9.000 -999.   62.     15.7  0.0200  0.72  1.00  1.50  265.0  15.0 284.8  2.0   0  0.00   83.  1011.    6 NAD-SFC NoSubs
 8  2 24  55 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 284.8  2.0   0  0.00   84.  1012.   10 NAD-SFC NoSubs
 8  2 24  55 24   -0.7  0.055 -9.000 -9.000 -999.   31.     23.4  0.0800  0.72  1.00  0.50  327.0  15.0 284.6  2.0   0  0.00   87.  1012.   10 NAD-SFC NoSubs
 8  2 25  56  1   -4.0  0.093 -9.000 -9.000 -999.   68.     18.2  0.0420  0.72  1.00  1.50  284.0  15.0 284.2  2.0   0  0.00   88.  1012.    6 NAD-SFC NoSubs
 8  2 25  56  2  -18.3  0.195 -9.000 -9.000 -999.  207.     36.6  0.0420  0.72  1.00  3.10  295.0  15.0 283.6  2.0   0  0.00   91.  1013.    4 NAD-SFC NoSubs
 8  2 25  56  3  -23.7  0.229 -9.000 -9.000 -999.  263.     45.6  0.0420  0.72  1.00  3.60  298.0  15.0 282.8  2.0   0  0.00   94.  1013.    4 NAD-SFC NoSubs
 8  2 25  56  4  -23.8  0.229 -9.000 -9.000 -999.  263.     45.5  0.0420  0.72  1.00  3.60  297.0  15.0 282.0  2.0   0  0.00   98.  1013.    4 NAD-SFC NoSubs
 8  2 25  56  5  -27.9  0.258 -9.000 -9.000 -999.  315.     55.8  0.0800  0.72  1.00  3.60  315.0  15.0 281.8  2.0   0  0.00  100.  1013.    3 NAD-SFC NoSubs
 8  2 25  56  6  -22.6  0.220 -9.000 -9.000 -999.  249.     42.9  0.0800  0.72  1.00  3.10  323.0  15.0 282.2  2.0   0  0.00  100.  1013.    3 NAD-SFC NoSubs
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 8  2 25  56  7  -15.7  0.182 -9.000 -9.000 -999.  187.     35.0  0.0800  0.72  1.00   2.60  322.0  15.0  282.6  2.0   0  0.00   98.  1014.    3 NAD-SFC NoSubs
 8  2 25  56  8    4.0  0.208  0.168  0.005   42.  227.   -200.5  0.0800  0.72  0.40   2.60  323.0  15.0  282.9  2.0   0  0.00   95.  1015.    3 NAD-SFC NoSubs
 8  2 25  56  9   56.6  0.248  0.737  0.005  256.  297.    -24.4  0.0950  0.72  0.25   2.60  332.0  15.0  283.5  2.0   0  0.00   89.  1015.    3 NAD-SFC NoSubs
 8  2 25  56 10  101.9  0.177  1.104  0.005  479.  181.     -5.0  0.0950  0.72  0.21   1.50  346.0  15.0  285.2  2.0   0  0.00   75.  1015.    3 NAD-SFC NoSubs
 8  2 25  56 11  133.8  0.141  1.362  0.005  684.  127.     -1.9  0.0950  0.72  0.19   1.00  333.0  15.0  286.8  2.0   0  0.00   66.  1014.    2 NAD-SFC NoSubs
 8  2 25  56 12  151.9  0.139  1.538  0.005  868.  124.     -1.6  0.0800  0.72  0.19   1.00  316.0  15.0  287.8  2.0   0  0.00   60.  1014.    2 NAD-SFC NoSubs
 8  2 25  56 13  154.9  0.139  1.637  0.005 1024.  124.     -1.6  0.0800  0.72  0.19   1.00  316.0  15.0  288.6  2.0   0  0.00   56.  1013.    2 NAD-SFC NoSubs
 8  2 25  56 14  142.8  0.142  1.657  0.005 1152.  129.     -1.8  0.0950  0.72  0.19   1.00  330.0  15.0  289.2  2.0   0  0.00   53.  1012.    2 NAD-SFC NoSubs
 8  2 25  56 15  115.9  0.180  1.587  0.005 1246.  183.     -4.5  0.0950  0.72  0.20   1.50  355.0  15.0  289.6  2.0   0  0.00   52.  1012.    2 NAD-SFC NoSubs
 8  2 25  56 16   75.1  0.254  1.395  0.006 1304.  307.    -19.6  0.0950  0.72  0.23   2.60  351.0  15.0  289.6  2.0   0  0.00   52.  1011.    2 NAD-SFC NoSubs
 8  2 25  56 17   23.5  0.233  0.951  0.006 1320.  270.    -48.4  0.0950  0.72  0.32   2.60  358.0  15.0  289.2  2.0   0  0.00   57.  1011.    2 NAD-SFC NoSubs
 8  2 25  56 18    3.5 -9.000 -9.000 -9.000  -999. -999. -99999.0  0.0471  0.72  0.63   0.00    0.0  15.0  288.4  2.0   0  0.00   60.  1012.    2 NAD-SFC NoSubs
 8  2 25  56 19  -16.5  0.190 -9.000 -9.000 -999.  198.     37.4  0.0960  0.72  1.00   2.60    8.0  15.0  287.5  2.0   0  0.00   63.  1012.    3 NAD-SFC NoSubs
 8  2 25  56 20   -2.9  0.086 -9.000 -9.000 -999.   66.     19.9  0.0960  0.72  1.00   1.00   27.0  15.0  286.6  2.0   0  0.00   68.  1012.    3 NAD-SFC NoSubs
 8  2 25  56 21   -1.0  0.066 -9.000 -9.000 -999.   41.     26.5  0.0280  0.72  1.00   0.50  130.0  15.0  285.8  2.0   0  0.00   74.  1012.    2 NAD-SFC NoSubs
 8  2 25  56 22   -1.0  0.066 -9.000 -9.000 -999.   41.     26.5  0.0280  0.72  1.00   0.50  146.0  15.0  284.8  2.0   0  0.00   79.  1012.    2 NAD-SFC NoSubs
 8  2 25  56 23   -1.0  0.066 -9.000 -9.000 -999.   40.     26.2  0.0240  0.72  1.00   0.50  164.0  15.0  284.0  2.0   0  0.00   83.  1012.    2 NAD-SFC NoSubs
 8  2 25  56 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  283.4  2.0   0  0.00   86.  1012.    2 NAD-SFC NoSubs
 8  2 26  57  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  282.8  2.0   0  0.00   88.  1012.    2 NAD-SFC NoSubs
 8  2 26  57  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  282.2  2.0   0  0.00   90.  1012.    2 NAD-SFC NoSubs
 8  2 26  57  3   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0420  0.72  1.00   0.50  280.0  15.0  281.9  2.0   0  0.00   92.  1012.    2 NAD-SFC NoSubs
 8  2 26  57  4   -2.5  0.079 -9.000 -9.000 -999.   53.     18.0  0.0420  0.72  1.00   1.00  292.0  15.0  281.4  2.0   0  0.00   93.  1012.    2 NAD-SFC NoSubs
 8  2 26  57  5   -4.5  0.095 -9.000 -9.000 -999.   70.     17.3  0.0420  0.72  1.00   1.50  295.0  15.0  280.9  2.0   0  0.00   95.  1012.    2 NAD-SFC NoSubs
 8  2 26  57  6   -5.3  0.105 -9.000 -9.000 -999.   82.     19.8  0.0800  0.72  1.00   1.50  300.0  15.0  279.9  2.0   0  0.00   96.  1013.    2 NAD-SFC NoSubs
 8  2 26  57  7   -1.2  0.074 -9.000 -9.000 -999.   48.     29.4  0.0800  0.72  1.00   0.50  313.0  15.0  279.5  2.0   0  0.00   98.  1013.    2 NAD-SFC NoSubs
 8  2 26  57  8    3.0  0.058  0.125  0.011   23.   33.     -5.7  0.0950  0.72  0.39   0.50  332.0  15.0  280.6  2.0   0  0.00   92.  1013.    2 NAD-SFC NoSubs
 8  2 26  57  9   56.6  0.071  0.630  0.008  159.   45.     -1.0  0.0420  0.72  0.25   0.50  289.0  15.0  283.2  2.0   0  0.00   77.  1013.    2 NAD-SFC NoSubs
 8  2 26  57 10  102.6 -9.000 -9.000 -9.000  361. -999. -99999.0  0.0471  0.72  0.21   0.00    0.0  15.0  285.8  2.0   0  0.00   68.  1013.    2 NAD-SFC NoSubs
 8  2 26  57 11  135.6 -9.000 -9.000 -9.000  535. -999. -99999.0  0.0471  0.72  0.19   0.00    0.0  15.0  288.4  2.0   0  0.00   56.  1012.    2 NAD-SFC NoSubs
 8  2 26  57 12  154.0 -9.000 -9.000 -9.000  672. -999. -99999.0  0.0471  0.72  0.19   0.00    0.0  15.0  290.2  2.0   0  0.00   50.  1011.    2 NAD-SFC NoSubs
 8  2 26  57 13  157.2  0.094  1.487  0.010  754.   70.     -1.0  0.0950  0.72  0.19   0.50  338.0  15.0  291.8  2.0   0  0.00   45.  1010.    2 NAD-SFC NoSubs
 8  2 26  57 14  145.4  0.184  1.492  0.009  823.  190.     -3.9  0.0950  0.72  0.19   1.50  351.0  15.0  292.9  2.0   0  0.00   43.  1009.    2 NAD-SFC NoSubs
 8  2 26  57 15  118.4  0.264  1.423  0.009  875.  326.    -14.0  0.0950  0.72  0.20   2.60  346.0  15.0  293.2  2.0   0  0.00   43.  1008.    2 NAD-SFC NoSubs
 8  2 26  57 16   77.5  0.328  1.250  0.009  907.  450.    -40.8  0.0960  0.72  0.23   3.60    2.0  15.0  293.1  2.0   0  0.00   47.  1008.    2 NAD-SFC NoSubs
 8  2 26  57 17   25.5 -9.000 -9.000 -9.000  916. -999. -99999.0  0.0471  0.72  0.32   0.00    0.0  15.0  292.0  2.0   0  0.00   57.  1008.    2 NAD-SFC NoSubs
 8  2 26  57 18  -29.7  0.308 -9.000 -9.000 -999.  411.     88.9  0.0960  0.72  0.62   4.10   14.0  15.0  290.6  2.0   0  0.00   63.  1009.    2 NAD-SFC NoSubs
 8  2 26  57 19  -33.1  0.308 -9.000 -9.000 -999.  409.     79.2  0.0960  0.72  1.00   4.10   23.0  15.0  289.5  2.0   0  0.00   67.  1009.    2 NAD-SFC NoSubs
 8  2 26  57 20  -28.9  0.268 -9.000 -9.000 -999.  334.     60.1  0.0960  0.72  1.00   3.60   24.0  15.0  288.8  2.0   0  0.00   69.  1009.    2 NAD-SFC NoSubs
 8  2 26  57 21  -23.9  0.229 -9.000 -9.000 -999.  264.     45.2  0.0960  0.72  1.00   3.10   25.0  15.0  288.0  2.0   0  0.00   71.  1010.    2 NAD-SFC NoSubs
 8  2 26  57 22   -5.5  0.108 -9.000 -9.000 -999.   95.     20.9  0.0960  0.72  1.00   1.50   21.0  15.0  287.2  2.0   0  0.00   74.  1010.    2 NAD-SFC NoSubs
 8  2 26  57 23   -1.3  0.075 -9.000 -9.000 -999.   49.     29.6  0.0960  0.72  1.00   0.50   15.0  15.0  286.8  2.0   0  0.00   76.  1010.    2 NAD-SFC NoSubs
 8  2 26  57 24   -2.9  0.086 -9.000 -9.000 -999.   61.     19.9  0.0950  0.72  1.00   1.00  334.0  15.0  286.2  2.0   0  0.00   78.  1010.    2 NAD-SFC NoSubs
 8  2 27  58  1   -2.8  0.085 -9.000 -9.000 -999.   59.     19.5  0.0800  0.72  1.00   1.00  328.0  15.0  285.8  2.0   0  0.00   79.  1010.    2 NAD-SFC NoSubs
 8  2 27  58  2  -10.1  0.145 -9.000 -9.000 -999.  132.     27.0  0.0800  0.72  1.00   2.10  327.0  15.0  285.1  2.0   0  0.00   80.  1010.    2 NAD-SFC NoSubs
 8  2 27  58  3  -15.7  0.182 -9.000 -9.000 -999.  187.     34.6  0.0800  0.72  1.00   2.60  323.0  15.0  284.6  2.0   0  0.00   80.  1010.    2 NAD-SFC NoSubs
 8  2 27  58  4  -22.7  0.220 -9.000 -9.000 -999.  248.     42.4  0.0800  0.72  1.00   3.10  322.0  15.0  284.2  2.0   0  0.00   79.  1010.    2 NAD-SFC NoSubs
 8  2 27  58  5  -15.8  0.182 -9.000 -9.000 -999.  187.     34.6  0.0800  0.72  1.00   2.60  325.0  15.0  284.0  2.0   0  0.00   78.  1010.    2 NAD-SFC NoSubs
 8  2 27  58  6  -15.8  0.182 -9.000 -9.000 -999.  187.     34.6  0.0800  0.72  1.00   2.60  324.0  15.0  283.8  2.0   0  0.00   77.  1010.    2 NAD-SFC NoSubs
 8  2 27  58  7  -10.1  0.145 -9.000 -9.000 -999.  132.     27.0  0.0800  0.72  1.00   2.10  313.0  15.0  283.6  2.0   0  0.00   75.  1010.    2 NAD-SFC NoSubs
 8  2 27  58  8    4.8  0.131  0.167  0.010   34.  114.    -41.8  0.0800  0.72  0.38   1.50  303.0  15.0  283.6  2.0   0  0.00   74.  1010.    2 NAD-SFC NoSubs
 8  2 27  58  9   58.2  0.206  0.624  0.008  150.  224.    -13.4  0.0800  0.72  0.25   2.10  325.0  15.0  284.2  2.0   0  0.00   68.  1010.    2 NAD-SFC NoSubs
 8  2 27  58 10  104.0  0.172  0.946  0.007  293.  172.     -4.4  0.0800  0.72  0.21   1.50  319.0  15.0  285.8  2.0   0  0.00   58.  1010.    2 NAD-SFC NoSubs
 8  2 27  58 11  136.6  0.178  1.213  0.006  471.  180.     -3.7  0.0800  0.72  0.19   1.50  311.0  15.0  287.1  2.0   0  0.00   55.  1010.    2 NAD-SFC NoSubs
 8  2 27  58 12  154.6  0.226  1.415  0.006  659.  257.     -6.7  0.0800  0.72  0.19   2.10  309.0  15.0  288.1  2.0   0  0.00   51.  1008.    2 NAD-SFC NoSubs
 8  2 27  58 13  157.6  0.226  1.520  0.007  802.  258.     -6.6  0.0800  0.72  0.19   2.10  318.0  15.0  288.9  2.0   0  0.00   46.  1008.    2 NAD-SFC NoSubs
 8  2 27  58 14  145.5  0.231  1.547  0.008  916.  267.     -7.7  0.0950  0.72  0.19   2.10  335.0  15.0  289.8  2.0   0  0.00   44.  1007.    2 NAD-SFC NoSubs
 8  2 27  58 15  118.5  0.264  1.487  0.009  997.  326.    -13.9  0.0950  0.72  0.20   2.60  335.0  15.0  290.2  2.0   0  0.00   44.  1006.    2 NAD-SFC NoSubs
 8  2 27  58 16   77.4  0.255  1.310  0.009 1043.  308.    -19.1  0.0950  0.72  0.23   2.60  345.0  15.0  289.8  2.0   0  0.00   51.  1006.    2 NAD-SFC NoSubs
 8  2 27  58 17   25.6  0.234  0.910  0.010 1057.  272.    -45.0  0.0950  0.72  0.32   2.60  336.0  15.0  289.2  2.0   0  0.00   55.  1006.    2 NAD-SFC NoSubs
 8  2 27  58 18   -5.1  0.107 -9.000 -9.000 -999.   95.     21.8  0.0950  0.72  0.61   1.50  341.0  15.0  288.8  2.0   0  0.00   57.  1006.    2 NAD-SFC NoSubs
 8  2 27  58 19   -2.8  0.084 -9.000 -9.000 -999.   59.     19.4  0.0800  0.72  1.00   1.00  308.0  15.0  288.1  2.0   0  0.00   59.  1006.    2 NAD-SFC NoSubs
 8  2 27  58 20   -2.4  0.079 -9.000 -9.000 -999.   53.     18.0  0.0420  0.72  1.00   1.00  279.0  15.0  287.6  2.0   0  0.00   61.  1006.    2 NAD-SFC NoSubs
 8  2 27  58 21   -2.1  0.073 -9.000 -9.000 -999.   47.     16.5  0.0200  0.72  1.00   1.00  256.0  15.0  287.0  2.0   0  0.00   64.  1006.    2 NAD-SFC NoSubs
 8  2 27  58 22   -2.1  0.073 -9.000 -9.000 -999.   47.     16.5  0.0200  0.72  1.00   1.00  255.0  15.0  286.2  2.0   0  0.00   66.  1006.    2 NAD-SFC NoSubs
 8  2 27  58 23   -0.9  0.065 -9.000 -9.000 -999.   39.     25.7  0.0200  0.72  1.00   0.50  258.0  15.0  285.5  2.0   0  0.00   69.  1006.    2 NAD-SFC NoSubs
 8  2 27  58 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  284.5  2.0   0  0.00   74.  1005.    2 NAD-SFC NoSubs
 8  2 28  59  1   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0420  0.72  1.00   0.50  279.0  15.0  283.8  2.0   0  0.00   77.  1005.    2 NAD-SFC NoSubs
 8  2 28  59  2   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0420  0.72  1.00   0.50  299.0  15.0  283.1  2.0   0  0.00   79.  1005.    2 NAD-SFC NoSubs
 8  2 28  59  3   -8.3  0.128 -9.000 -9.000 -999.  110.     22.5  0.0420  0.72  1.00   2.10  296.0  15.0  282.8  2.0   0  0.00   79.  1005.    2 NAD-SFC NoSubs
 8  2 28  59  4  -15.7  0.182 -9.000 -9.000 -999.  187.     34.4  0.0800  0.72  1.00   2.60  307.0  15.0  282.2  2.0   0  0.00   80.  1005.    2 NAD-SFC NoSubs
 8  2 28  59  5  -10.1  0.145 -9.000 -9.000 -999.  132.     26.9  0.0800  0.72  1.00   2.10  310.0  15.0  281.8  2.0   0  0.00   83.  1005.    2 NAD-SFC NoSubs
 8  2 28  59  6   -4.4  0.095 -9.000 -9.000 -999.   71.     17.3  0.0420  0.72  1.00   1.50  299.0  15.0  281.2  2.0   0  0.00   85.  1005.    2 NAD-SFC NoSubs
 8  2 28  59  7   -2.2  0.074 -9.000 -9.000 -999.   48.     16.6  0.0200  0.72  1.00   1.00  266.0  15.0  280.8  2.0   0  0.00   87.  1005.    2 NAD-SFC NoSubs
 8  2 28  59  8    5.7  0.097  0.192  0.009   44.   73.    -14.3  0.0800  0.72  0.38   1.00  310.0  15.0  282.1  2.0   0  0.00   80.  1005.    2 NAD-SFC NoSubs
 8  2 28  59  9   59.6  0.080  0.676  0.008  185.   55.     -1.0  0.0800  0.72  0.25   0.50  317.0  15.0  284.1  2.0   0  0.00   70.  1005.    2 NAD-SFC NoSubs
 8  2 28  59 10  105.4  0.118  1.024  0.008  365.   98.     -1.4  0.0420  0.72  0.20   1.00  296.0  15.0  285.9  2.0   0  0.00   62.  1005.    2 NAD-SFC NoSubs
 8  2 28  59 11  138.0  0.137  1.288  0.010  555.  122.     -1.7  0.0800  0.72  0.19   1.00  309.0  15.0  287.4  2.0   0  0.00   57.  1004.    2 NAD-SFC NoSubs
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 8  2 28  59 12  156.2  0.180  1.446  0.011  694.  184.     -3.4  0.0800  0.72  0.19  1.50  309.0  15.0  289.0  2.0  0  0.00  52.  1003.  2 NAD-SFC NoSubs
 8  2 28  59 13  159.3  0.227  1.513  0.011  779.  259.     -6.5  0.0800  0.72  0.19  2.10  320.0  15.0  290.4  2.0  0  0.00  48.  1002.  2 NAD-SFC NoSubs
 8  2 28  59 14  147.2  0.232  1.517  0.011  849.  268.     -7.6  0.0950  0.72  0.19  2.10  345.0  15.0  291.2  2.0  0  0.00  46.  1002.  2 NAD-SFC NoSubs
 8  2 28  59 15  120.2  0.228  1.448  0.010  903.  260.     -8.7  0.0950  0.72  0.20  2.10  352.0  15.0  291.8  2.0  0  0.00  46.  1001.  2 NAD-SFC NoSubs
 8  2 28  59 16   79.3  0.218  1.277  0.010  937.  245.    -11.7  0.0950  0.72  0.23  2.10  349.0  15.0  291.9  2.0  0  0.00  47.  1001.  2 NAD-SFC NoSubs
 8  2 28  59 17   27.5  0.155  0.901  0.010  948.  148.    -12.2  0.0950  0.72  0.31  1.50  352.0  15.0  291.8  2.0  0  0.00  50.  1001.  2 NAD-SFC NoSubs
 8  2 28  59 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.60  0.00    0.0  15.0  290.9  2.0  0  0.00  54.  1002.  2 NAD-SFC NoSubs
 8  2 28  59 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  289.6  2.0  0  0.00  60.  1002.  2 NAD-SFC NoSubs
 8  2 28  59 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  288.2  2.0  0  0.00  66.  1003.  2 NAD-SFC NoSubs
 8  2 28  59 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  287.2  2.0  0  0.00  71.  1003.  2 NAD-SFC NoSubs
 8  2 28  59 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  286.2  2.0  0  0.00  76.  1004.  2 NAD-SFC NoSubs
 8  2 28  59 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  285.4  2.0  0  0.00  81.  1004.  2 NAD-SFC NoSubs
 8  2 28  59 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  284.8  2.0  0  0.00  84.  1004.  2 NAD-SFC NoSubs
 8  2 29  60  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  284.2  2.0  0  0.00  85.  1005.  2 NAD-SFC NoSubs
 8  2 29  60  2   -2.4  0.079 -9.000 -9.000 -999.  53.     18.0  0.0420  0.72  1.00  1.00  299.0  15.0  283.9  2.0  0  0.00  85.  1005.  2 NAD-SFC NoSubs
 8  2 29  60  3   -4.4  0.095 -9.000 -9.000 -999.  70.     17.4  0.0420  0.72  1.00  1.50  298.0  15.0  283.8  2.0  0  0.00  84.  1005.  2 NAD-SFC NoSubs
 8  2 29  60  4  -13.0  0.161 -9.000 -9.000 -999. 155.     28.7  0.0420  0.72  1.00  2.60  297.0  15.0  283.4  2.0  0  0.00  83.  1005.  2 NAD-SFC NoSubs
 8  2 29  60  5  -15.7  0.182 -9.000 -9.000 -999. 187.     34.5  0.0800  0.72  1.00  2.60  314.0  15.0  283.0  2.0  0  0.00  82.  1006.  2 NAD-SFC NoSubs
 8  2 29  60  6  -10.1  0.145 -9.000 -9.000 -999. 132.     26.9  0.0800  0.72  1.00  2.10  318.0  15.0  282.6  2.0  0  0.00  82.  1006.  2 NAD-SFC NoSubs
 8  2 29  60  7   -5.5  0.108 -9.000 -9.000 -999.  86.     20.7  0.0950  0.72  1.00  1.50  335.0  15.0  282.2  2.0  0  0.00  83.  1007.  2 NAD-SFC NoSubs
 8  2 29  60  8    7.2  0.182  0.204  0.010   42. 187.    -75.4  0.0950  0.72  0.37  2.10  342.0  15.0  283.2  2.0  0  0.00  77.  1007.  2 NAD-SFC NoSubs
 8  2 29  60  9   61.3  0.206  0.625  0.010  143. 225.    -12.9  0.0800  0.72  0.24  2.10  328.0  15.0  285.2  2.0  0  0.00  68.  1008.  2 NAD-SFC NoSubs
 8  2 29  60 10  107.3  0.173  0.934  0.009  273. 173.     -4.3  0.0800  0.72  0.20  1.50  324.0  15.0  287.6  2.0  0  0.00  60.  1008.  2 NAD-SFC NoSubs
 8  2 29  60 11  140.2  0.178  1.188  0.007  429. 180.     -3.6  0.0800  0.72  0.19  1.50  314.0  15.0  290.0  2.0  0  0.00  52.  1007.  2 NAD-SFC NoSubs
 8  2 29  60 12  158.4  0.226  1.360  0.006  570. 259.     -6.6  0.0800  0.72  0.19  2.10  307.0  15.0  291.8  2.0  0  0.00  47.  1006.  2 NAD-SFC NoSubs
 8  2 29  60 13  161.6  0.181  1.467  0.006  702. 185.     -3.3  0.0800  0.72  0.19  1.50  325.0  15.0  293.0  2.0  0  0.00  43.  1006.  2 NAD-SFC NoSubs
 8  2 29  60 14  149.6  0.185  1.523  0.006  847. 191.     -3.8  0.0950  0.72  0.19  1.50  335.0  15.0  294.1  2.0  0  0.00  40.  1005.  2 NAD-SFC NoSubs
 8  2 29  60 15  122.6  0.181  1.481  0.005  950. 185.     -4.4  0.0950  0.72  0.20  1.50  354.0  15.0  294.8  2.0  0  0.00  39.  1004.  2 NAD-SFC NoSubs
 8  2 29  60 16   81.7  0.256  1.322  0.005 1014. 311.    -18.4  0.0960  0.72  0.22  2.60   15.0  15.0  295.0  2.0  0  0.00  39.  1004.  2 NAD-SFC NoSubs
 8  2 29  60 17   29.6  0.222  0.950  0.005 1035. 251.    -32.9  0.0650  0.72  0.31  2.60   31.0  15.0  294.5  2.0  0  0.00  47.  1004.  2 NAD-SFC NoSubs
 8  2 29  60 18  -13.4  0.176 -9.000 -9.000 -999. 178.     36.5  0.0650  0.72  0.60  2.60   35.0  15.0  293.2  2.0  0  0.00  51.  1005.  2 NAD-SFC NoSubs
 8  2 29  60 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  292.0  2.0  0  0.00  56.  1006.  2 NAD-SFC NoSubs
 8  2 29  60 20   -6.8  0.113 -9.000 -9.000 -999.  92.     19.1  0.0200  0.72  1.00  2.10  259.0  15.0  290.8  2.0  0  0.00  62.  1006.  2 NAD-SFC NoSubs
 8  2 29  60 21  -28.1  0.261 -9.000 -9.000 -999. 321.     57.1  0.0200  0.72  1.00  4.60  269.0  15.0  288.8  2.0  0  0.00  70.  1007.  2 NAD-SFC NoSubs
 8  2 29  60 22  -32.0  0.296 -9.000 -9.000 -999. 386.     72.6  0.0420  0.72  1.00  4.60  279.0  15.0  287.1  2.0  0  0.00  79.  1008.  2 NAD-SFC NoSubs
 8  2 29  60 23  -27.8  0.262 -9.000 -9.000 -999. 323.     58.5  0.0420  0.72  1.00  4.10  273.0  15.0  286.6  2.0  0  0.00  81.  1009.  3 NAD-SFC NoSubs
 8  2 29  60 24  -32.2  0.296 -9.000 -9.000 -999. 387.     72.5  0.0800  0.72  1.00  4.10  300.0  15.0  286.0  2.0  0  0.00  83.  1009.  2 NAD-SFC NoSubs
 8  3  1  61  1  -32.1  0.302 -9.000 -9.000 -999. 399.     77.4  0.1620  0.32  1.00  3.60  325.0  15.0  285.5  2.0  0  0.00  87.  1009.  3 NAD-SFC NoSubs
 8  3  1  61  2  -21.2  0.222 -9.000 -9.000 -999. 254.     46.6  0.1880  0.32  1.00  2.60  339.0  15.0  285.1  2.0  0  0.00  90.  1009.  3 NAD-SFC NoSubs
 8  3  1  61  3   -1.5  0.080 -9.000 -9.000 -999.  75.     31.1  0.1880  0.32  1.00  0.50  349.0  15.0  284.8  2.0  0  0.00  92.  1009.  3 NAD-SFC NoSubs
 8  3  1  61  4   -3.3  0.092 -9.000 -9.000 -999.  67.     21.4  0.1620  0.32  1.00  1.00  320.0  15.0  284.6  2.0  0  0.00  92.  1010.  3 NAD-SFC NoSubs
 8  3  1  61  5   -3.3  0.092 -9.000 -9.000 -999.  67.     21.4  0.1620  0.32  1.00  1.00  300.0  15.0  284.8  2.0  0  0.00  91.  1010.  3 NAD-SFC NoSubs
 8  3  1  61  6   -1.4  0.078 -9.000 -9.000 -999.  53.     30.7  0.1620  0.32  1.00  0.50  325.0  15.0  284.5  2.0  0  0.00  91.  1010.  3 NAD-SFC NoSubs
 8  3  1  61  7   -1.4  0.078 -9.000 -9.000 -999.  53.     30.7  0.1880  0.32  1.00  0.50  356.0  15.0  284.1  2.0  0  0.00  93.  1011.  4 NAD-SFC NoSubs
 8  3  1  61  8    8.4  0.471  0.256  0.006   72. 776.  -1124.5  0.1880  0.32  0.33  5.10  355.0  15.0  284.9  2.0  0  0.00  88.  1011.  5 NAD-SFC NoSubs
 8  3  1  61  9   32.9  0.535  0.578  0.007  212. 939.    -420.9  0.1880  0.32  0.20  5.70  343.0  15.0  284.9  2.0  0  0.00  87.  1011.  7 NAD-SFC NoSubs
 8  3  1  61 10   44.8  0.523  0.731  0.007  314. 908.    -287.6  0.1620  0.32  0.16  5.70  327.0  15.0  284.2  2.0  0  0.00  89.  1012.  8 NAD-SFC NoSubs
 8  3  1  61 11   19.5  0.420  0.573  0.006  349. 662.    -342.6  0.1620  0.32  0.15  4.60  327.0  15.0  284.2  2.0  0  0.00  90.  1012. 10 NAD-SFC NoSubs
 8  3  1  61 12   22.3  0.349  0.621  0.007  387. 498.    -171.9  0.1880  0.32  0.15  3.60  338.0  15.0  285.2  2.0  0  0.00  84.  1011. 10 NAD-SFC NoSubs
 8  3  1  61 13   22.8  0.435  0.642  0.006  417. 688.    -325.7  0.1880  0.32  0.15  4.60  331.0  15.0  285.9  2.0  0  0.00  80.  1010. 10 NAD-SFC NoSubs
 8  3  1  61 14   20.9  0.463  0.636  0.006  443. 755.    -426.2  0.1620  0.32  0.15  5.10  326.0  15.0  286.1  2.0  0  0.00  77.  1009. 10 NAD-SFC NoSubs
 8  3  1  61 15   16.8  0.293  0.600  0.007  463. 404.    -135.5  0.1620  0.32  0.16  3.10  326.0  15.0  286.2  2.0  0  0.00  79.  1009. 10 NAD-SFC NoSubs
 8  3  1  61 16   48.5  0.138  0.886  0.006  515. 147.     -4.9  0.1620  0.32  0.18  1.00  308.0  15.0  286.8  2.0  0  0.00  77.  1008.  5 NAD-SFC NoSubs
 8  3  1  61 17   19.3  0.255  0.660  0.006  535. 308.    -76.9  0.1620  0.32  0.27  2.60  310.0  15.0  287.0  2.0  0  0.00  72.  1007.  4 NAD-SFC NoSubs
 8  3  1  61 18  -30.2  0.348 -9.000 -9.000 -999. 492.    125.0  0.1620  0.32  0.55  4.10  316.0  15.0  286.2  2.0  0  0.00  70.  1008.  3 NAD-SFC NoSubs
 8  3  1  61 19  -38.2  0.359 -9.000 -9.000 -999. 517.    109.1  0.1880  0.32  1.00  4.10  333.0  15.0  284.9  2.0  0  0.00  72.  1008.  3 NAD-SFC NoSubs
 8  3  1  61 20  -31.1  0.303 -9.000 -9.000 -999. 401.     80.0  0.1620  0.32  1.00  3.60  328.0  15.0  284.0  2.0  0  0.00  73.  1009.  4 NAD-SFC NoSubs
 8  3  1  61 21  -12.6  0.170 -9.000 -9.000 -999. 179.     35.1  0.1620  0.32  1.00  2.10  325.0  15.0  283.4  2.0  0  0.00  75.  1009.  4 NAD-SFC NoSubs
 8  3  1  61 22   -3.2  0.092 -9.000 -9.000 -999.  69.     21.4  0.1620  0.32  1.00  1.00  314.0  15.0  282.9  2.0  0  0.00  76.  1009.  4 NAD-SFC NoSubs
 8  3  1  61 23   -1.2  0.071 -9.000 -9.000 -999.  46.     28.5  0.0780  0.32  1.00  0.50  290.0  15.0  282.5  2.0  0  0.00  76.  1010.  4 NAD-SFC NoSubs
 8  3  1  61 24   -1.2  0.072 -9.000 -9.000 -999.  46.     28.6  0.0780  0.32  1.00  0.50  299.0  15.0  282.1  2.0  0  0.00  76.  1009.  4 NAD-SFC NoSubs
 8  3  2  62  1   -1.0  0.067 -9.000 -9.000 -999.  41.     26.6  0.0310  0.32  1.00  0.50  269.0  15.0  281.5  2.0  0  0.00  77.  1009.  3 NAD-SFC NoSubs
 8  3  2  62  2   -2.3  0.076 -9.000 -9.000 -999.  50.     17.3  0.0310  0.32  1.00  1.00  268.0  15.0  281.0  2.0  0  0.00  78.  1009.  3 NAD-SFC NoSubs
 8  3  2  62  3   -2.3  0.076 -9.000 -9.000 -999.  50.     17.3  0.0310  0.32  1.00  1.00  259.0  15.0  280.6  2.0  0  0.00  79.  1009.  3 NAD-SFC NoSubs
 8  3  2  62  4   -2.3  0.076 -9.000 -9.000 -999.  50.     17.3  0.0310  0.32  1.00  1.00  253.0  15.0  280.1  2.0  0  0.00  80.  1009.  3 NAD-SFC NoSubs
 8  3  2  62  5   -2.3  0.077 -9.000 -9.000 -999.  51.     17.5  0.0340  0.32  1.00  1.00  235.0  15.0  279.6  2.0  0  0.00  80.  1008.  3 NAD-SFC NoSubs
 8  3  2  62  6   -4.3  0.092 -9.000 -9.000 -999.  67.     16.6  0.0340  0.32  1.00  1.50  234.0  15.0  279.2  2.0  0  0.00  81.  1009.  2 NAD-SFC NoSubs
 8  3  2  62  7   -4.3  0.092 -9.000 -9.000 -999.  67.     16.6  0.0340  0.32  1.00  1.50  229.0  15.0  278.8  2.0  0  0.00  80.  1009.  2 NAD-SFC NoSubs
 8  3  2  62  8    6.5  0.084  0.202  0.005   45.  59.     -8.2  0.0310  0.32  0.33  1.00  248.0  15.0  280.2  2.0  0  0.00  73.  1010.  2 NAD-SFC NoSubs
 8  3  2  62  9   39.4  0.100  0.662  0.005  265.  76.     -2.3  0.0310  0.32  0.20  1.00  253.0  15.0  282.1  2.0  0  0.00  62.  1010.  2 NAD-SFC NoSubs
 8  3  2  62 10   67.1  0.140  0.947  0.006  456. 126.     -3.7  0.0310  0.32  0.16  1.50  264.0  15.0  283.8  2.0  0  0.00  55.  1010.  2 NAD-SFC NoSubs
 8  3  2  62 11   86.7  0.144  1.115  0.006  576. 131.     -3.1  0.0310  0.32  0.15  1.50  267.0  15.0  285.2  2.0  0  0.00  48.  1010.  2 NAD-SFC NoSubs
 8  3  2  62 12   97.6  0.215  1.229  0.006  684. 239.     -9.2  0.0780  0.32  0.15  2.10  275.0  15.0  286.6  2.0  0  0.00  44.  1009.  2 NAD-SFC NoSubs
 8  3  2  62 13   99.3  0.215  1.287  0.006  774. 240.     -9.0  0.0780  0.32  0.15  2.10  286.0  15.0  287.9  2.0  0  0.00  40.  1009.  2 NAD-SFC NoSubs
 8  3  2  62 14   91.9  0.285  1.294  0.006  849. 366.    -22.8  0.1620  0.32  0.15  2.60  306.0  15.0  289.0  2.0  0  0.00  38.  1008.  2 NAD-SFC NoSubs
 8  3  2  62 15   75.5  0.321  1.239  0.007  906. 437.    -39.5  0.1620  0.32  0.16  3.10  323.0  15.0  289.6  2.0  0  0.00  36.  1008.  2 NAD-SFC NoSubs
 8  3  2  62 16   50.6  0.272  1.099  0.007  942. 342.    -35.8  0.1620  0.32  0.18  2.60  323.0  15.0  289.9  2.0  0  0.00  36.  1008.  2 NAD-SFC NoSubs
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 8  3  2  62 17   19.0  0.221  0.796  0.007  955.  250.    -50.9  0.1880  0.32  0.27   2.10  352.0  15.0  289.6  2.0   0  0.00  41.  1008.   2 NAD-SFC NoSubs
 8  3  2  62 18    7.9 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  0.55   0.00    0.0  15.0  288.8  2.0   0  0.00  43.  1009.   2 NAD-SFC NoSubs
 8  3  2  62 19   -3.1  0.090 -9.000 -9.000 -999.   65.     20.7  0.1280  0.32  1.00   1.00   53.0  15.0  287.6  2.0   0  0.00  48.  1010.   2 NAD-SFC NoSubs
 8  3  2  62 20   -1.1  0.069 -9.000 -9.000 -999.   44.     27.7  0.0460  0.32  1.00   0.50  126.0  15.0  286.2  2.0   0  0.00  55.  1011.   2 NAD-SFC NoSubs
 8  3  2  62 21   -4.2  0.092 -9.000 -9.000 -999.   67.     16.6  0.0330  0.32  1.00   1.50  192.0  15.0  284.9  2.0   0  0.00  62.  1011.   2 NAD-SFC NoSubs
 8  3  2  62 22  -17.6  0.187 -9.000 -9.000 -999.  193.     33.2  0.0330  0.32  1.00   3.10  208.0  15.0  284.2  2.0   0  0.00  63.  1012.   2 NAD-SFC NoSubs
 8  3  2  62 23  -27.8  0.253 -9.000 -9.000 -999.  305.     52.4  0.0340  0.32  1.00   4.10  211.0  15.0  283.9  2.0   0  0.00  58.  1013.   2 NAD-SFC NoSubs
 8  3  2  62 24  -27.9  0.253 -9.000 -9.000 -999.  305.     52.2  0.0340  0.32  1.00   4.10  215.0  15.0  283.2  2.0   0  0.00  51.  1013.   2 NAD-SFC NoSubs
 8  3  3  63  1  -24.1  0.219 -9.000 -9.000 -999.  246.     39.3  0.0330  0.32  1.00   3.60  200.0  15.0  282.6  2.0   0  0.00  46.  1013.   2 NAD-SFC NoSubs
 8  3  3  63  2  -17.7  0.186 -9.000 -9.000 -999.  194.     33.0  0.0330  0.32  1.00   3.10  195.0  15.0  281.8  2.0   0  0.00  47.  1013.   2 NAD-SFC NoSubs
 8  3  3  63  3  -12.8  0.158 -9.000 -9.000 -999.  151.     27.9  0.0380  0.32  1.00   2.60  173.0  15.0  281.2  2.0   0  0.00  48.  1013.   2 NAD-SFC NoSubs
 8  3  3  63  4   -8.7  0.130 -9.000 -9.000 -999.  113.     23.0  0.0460  0.32  1.00   2.10  146.0  15.0  280.8  2.0   0  0.00  49.  1014.   2 NAD-SFC NoSubs
 8  3  3  63  5   -8.7  0.130 -9.000 -9.000 -999.  113.     23.0  0.0460  0.32  1.00   2.10  138.0  15.0  280.4  2.0   0  0.00  49.  1014.   2 NAD-SFC NoSubs
 8  3  3  63  6   -4.7  0.098 -9.000 -9.000 -999.   74.     18.0  0.0510  0.32  1.00   1.50  116.0  15.0  279.8  2.0   0  0.00  51.  1014.   2 NAD-SFC NoSubs
 8  3  3  63  7   -2.6  0.081 -9.000 -9.000 -999.   55.     18.5  0.0510  0.32  0.73   1.00   97.0  15.0  279.2  2.0   0  0.00  54.  1015.   2 NAD-SFC NoSubs
 8  3  3  63  8    7.4  0.134  0.188  0.008   32.  117.    -29.3  0.0760  0.32  0.32   1.50   79.0  15.0  280.6  2.0   0  0.00  51.  1015.   2 NAD-SFC NoSubs
 8  3  3  63  9   40.5  0.170  0.469  0.007   92.  168.    -11.0  0.1280  0.32  0.20   1.50   47.0  15.0  283.4  2.0   0  0.00  42.  1015.   2 NAD-SFC NoSubs
 8  3  3  63 10   68.2  0.179  0.739  0.006  214.  182.     -7.6  0.1280  0.32  0.16   1.50   34.0  15.0  285.6  2.0   0  0.00  39.  1015.   2 NAD-SFC NoSubs
 8  3  3  63 11   88.0  0.153  0.944  0.005  346.  144.     -3.7  0.1900  0.32  0.15   1.00   10.0  15.0  288.0  2.0   0  0.00  34.  1014.   2 NAD-SFC NoSubs
 8  3  3  63 12   98.9  0.155  1.121  0.005  515.  147.     -3.4  0.1880  0.32  0.15   1.00  346.0  15.0  289.5  2.0   0  0.00  32.  1014.   2 NAD-SFC NoSubs
 8  3  3  63 13  100.6  0.155  1.233  0.005  674.  147.     -3.4  0.1880  0.32  0.15   1.00  353.0  15.0  290.8  2.0   0  0.00  30.  1013.   2 NAD-SFC NoSubs
 8  3  3  63 14   93.1  0.201  1.262  0.005  779.  216.     -7.8  0.1880  0.32  0.15   1.50  348.0  15.0  291.5  2.0   0  0.00  29.  1012.   2 NAD-SFC NoSubs
 8  3  3  63 15   76.6 -9.000 -9.000 -9.000  855. -999. -99999.0  0.0879  0.32  0.16   0.00    0.0  15.0  291.8  2.0   0  0.00  28.  1011.   2 NAD-SFC NoSubs
 8  3  3  63 16   51.7  0.281  1.089  0.006  903.  358.    -38.8  0.1900  0.32  0.18   2.60    9.0  15.0  291.8  2.0   0  0.00  29.  1011.   2 NAD-SFC NoSubs
 8  3  3  63 17   19.9  0.264  0.798  0.006  919.  325.    -82.8  0.1900  0.32  0.26   2.60   24.0  15.0  291.1  2.0   0  0.00  37.  1011.   2 NAD-SFC NoSubs
 8  3  3  63 18  -16.4  0.204 -9.000 -9.000 -999.  222.     46.6  0.1280  0.32  0.54   2.60   34.0  15.0  290.0  2.0   0  0.00  39.  1011.   2 NAD-SFC NoSubs
 8  3  3  63 19   -6.0  0.115 -9.000 -9.000 -999.   96.     22.6  0.1280  0.32  1.00   1.50   33.0  15.0  288.8  2.0   0  0.00  43.  1011.   2 NAD-SFC NoSubs
 8  3  3  63 20   -1.4  0.079 -9.000 -9.000 -999.   53.     30.9  0.1620  0.32  1.00   0.50  308.0  15.0  287.2  2.0   0  0.00  48.  1010.   2 NAD-SFC NoSubs
 8  3  3  63 21   -1.0  0.067 -9.000 -9.000 -999.   42.     26.7  0.0310  0.32  1.00   0.50  249.0  15.0  285.9  2.0   0  0.00  55.  1010.   2 NAD-SFC NoSubs
 8  3  3  63 22   -5.2  0.105 -9.000 -9.000 -999.   81.     19.8  0.0780  0.32  1.00   1.50  280.0  15.0  284.9  2.0   0  0.00  60.  1010.   2 NAD-SFC NoSubs
 8  3  3  63 23  -15.6  0.181 -9.000 -9.000 -999.  185.     34.3  0.0780  0.32  1.00   2.60  279.0  15.0  284.5  2.0   0  0.00  59.  1010.   2 NAD-SFC NoSubs
 8  3  3  63 24  -15.6  0.181 -9.000 -9.000 -999.  185.     34.3  0.0780  0.32  1.00   2.60  287.0  15.0  284.2  2.0   0  0.00  56.  1010.   2 NAD-SFC NoSubs
 8  3  4  64  1   -5.2  0.105 -9.000 -9.000 -999.   83.     19.8  0.0780  0.32  1.00   1.50  290.0  15.0  284.2  2.0   0  0.00  53.  1010.   2 NAD-SFC NoSubs
 8  3  4  64  2   -3.4  0.093 -9.000 -9.000 -999.   68.     21.5  0.1620  0.32  1.00   1.00  310.0  15.0  284.1  2.0   0  0.00  52.  1010.   2 NAD-SFC NoSubs
 8  3  4  64  3   -3.4  0.093 -9.000 -9.000 -999.   68.     21.5  0.1620  0.32  1.00   1.00  316.0  15.0  283.5  2.0   0  0.00  54.  1010.   2 NAD-SFC NoSubs
 8  3  4  64  4   -2.8  0.085 -9.000 -9.000 -999.   59.     19.4  0.0780  0.32  1.00   1.00  297.0  15.0  282.9  2.0   0  0.00  61.  1010.   2 NAD-SFC NoSubs
 8  3  4  64  5  -13.0  0.169 -9.000 -9.000 -999.  167.     33.7  0.1620  0.32  1.00   2.10  310.0  15.0  282.5  2.0   0  0.00  68.  1010.   2 NAD-SFC NoSubs
 8  3  4  64  6  -10.1  0.144 -9.000 -9.000 -999.  131.     26.7  0.0780  0.32  1.00   2.10  297.0  15.0  282.0  2.0   0  0.00  73.  1010.   2 NAD-SFC NoSubs
 8  3  4  64  7   -5.2  0.105 -9.000 -9.000 -999.   81.     19.8  0.0780  0.32  0.71   1.50  295.0  15.0  281.5  2.0   0  0.00  76.  1010.   2 NAD-SFC NoSubs
 8  3  4  64  8    8.4  0.160  0.226  0.008   49.  154.    -43.7  0.1880  0.32  0.32   1.50  331.0  15.0  282.8  2.0   0  0.00  69.  1010.   2 NAD-SFC NoSubs
 8  3  4  64  9   41.4  0.091  0.542  0.008  138.   67.     -1.6  0.1880  0.32  0.20   0.50  336.0  15.0  284.2  2.0   0  0.00  62.  1009.   2 NAD-SFC NoSubs
 8  3  4  64 10   69.2 -9.000 -9.000 -9.000  243. -999. -99999.0  0.0879  0.32  0.16   0.00    0.0  15.0  286.5  2.0   0  0.00  50.  1009.   2 NAD-SFC NoSubs
 8  3  4  64 11   88.9 -9.000 -9.000 -9.000  370. -999. -99999.0  0.0879  0.32  0.15   0.00    0.0  15.0  288.2  2.0   0  0.00  44.  1008.   2 NAD-SFC NoSubs
 8  3  4  64 12   99.7 -9.000 -9.000 -9.000  545. -999. -99999.0  0.0879  0.32  0.15   0.00    0.0  15.0  289.6  2.0   0  0.00  39.  1006.   2 NAD-SFC NoSubs
 8  3  4  64 13  101.4  0.099  1.249  0.005  689.   75.     -1.0  0.1620  0.32  0.15   0.50  305.0  15.0  290.8  2.0   0  0.00  36.  1005.   2 NAD-SFC NoSubs
 8  3  4  64 14   93.9  0.150  1.279  0.006  798.  139.     -3.2  0.1620  0.32  0.15   1.00  314.0  15.0  291.8  2.0   0  0.00  34.  1004.   2 NAD-SFC NoSubs
 8  3  4  64 15   77.4  0.197  1.238  0.006  878.  209.     -8.8  0.1880  0.32  0.16   1.50  330.0  15.0  292.2  2.0   0  0.00  33.  1004.   2 NAD-SFC NoSubs
 8  3  4  64 16   52.4  0.281  1.108  0.006  928.  358.    -37.9  0.1880  0.32  0.18   2.60  341.0  15.0  292.2  2.0   0  0.00  34.  1003.   2 NAD-SFC NoSubs
 8  3  4  64 17   20.7 -9.000 -9.000 -9.000  946. -999. -99999.0  0.0879  0.32  0.26   0.00    0.0  15.0  291.8  2.0   0  0.00  41.  1003.   2 NAD-SFC NoSubs
 8  3  4  64 18   -6.0  0.125 -9.000 -9.000 -999.  106.     28.9  0.1900  0.32  0.53   1.50   23.0  15.0  290.9  2.0   0  0.00  45.  1004.   2 NAD-SFC NoSubs
 8  3  4  64 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00   0.00    0.0  15.0  289.6  2.0   0  0.00  51.  1004.   2 NAD-SFC NoSubs
 8  3  4  64 20   -1.2  0.073 -9.000 -9.000 -999.   47.     29.0  0.0780  0.32  1.00   0.50  284.0  15.0  288.2  2.0   0  0.00  57.  1004.   2 NAD-SFC NoSubs
 8  3  4  64 21   -1.0  0.067 -9.000 -9.000 -999.   41.     26.7  0.0310  0.32  1.00   0.50  266.0  15.0  286.9  2.0   0  0.00  64.  1004.   2 NAD-SFC NoSubs
 8  3  4  64 22   -1.0  0.067 -9.000 -9.000 -999.   42.     26.7  0.0310  0.32  1.00   0.50  268.0  15.0  285.9  2.0   0  0.00  68.  1004.   2 NAD-SFC NoSubs
 8  3  4  64 23   -1.2  0.073 -9.000 -9.000 -999.   47.     29.1  0.0780  0.32  1.00   0.50  294.0  15.0  285.1  2.0   0  0.00  71.  1004.   2 NAD-SFC NoSubs
 8  3  4  64 24   -1.4  0.079 -9.000 -9.000 -999.   53.     31.0  0.1620  0.32  1.00   0.50  307.0  15.0  284.2  2.0   0  0.00  72.  1004.   2 NAD-SFC NoSubs
 8  3  5  65  1   -2.8  0.085 -9.000 -9.000 -999.   59.     19.4  0.0780  0.32  1.00   1.00  286.0  15.0  283.8  2.0   0  0.00  73.  1004.   2 NAD-SFC NoSubs
 8  3  5  65  2  -10.0  0.144 -9.000 -9.000 -999.  131.     26.7  0.0780  0.32  1.00   2.10  290.0  15.0  283.2  2.0   0  0.00  73.  1004.   2 NAD-SFC NoSubs
 8  3  5  65  3  -15.6  0.181 -9.000 -9.000 -999.  185.     34.2  0.0780  0.32  1.00   2.60  290.0  15.0  282.5  2.0   0  0.00  74.  1005.   2 NAD-SFC NoSubs
 8  3  5  65  4  -22.5  0.219 -9.000 -9.000 -999.  246.     41.9  0.0780  0.32  1.00   3.10  287.0  15.0  281.9  2.0   0  0.00  74.  1005.   2 NAD-SFC NoSubs
 8  3  5  65  5  -22.5  0.219 -9.000 -9.000 -999.  246.     41.8  0.0780  0.32  1.00   3.10  290.0  15.0  281.2  2.0   0  0.00  72.  1005.   2 NAD-SFC NoSubs
 8  3  5  65  6  -22.6  0.219 -9.000 -9.000 -999.  246.     41.8  0.0780  0.32  1.00   3.10  281.0  15.0  280.8  2.0   0  0.00  70.  1006.   2 NAD-SFC NoSubs
 8  3  5  65  7  -22.6  0.219 -9.000 -9.000 -999.  246.     41.9  0.0780  0.32  0.70   3.10  270.0  15.0  280.1  2.0   0  0.00  69.  1007.   2 NAD-SFC NoSubs
 8  3  5  65  8    9.1  0.328  0.242  0.006   55.  451.   -348.4  0.1620  0.32  0.31   3.60  325.0  15.0  281.8  2.0   0  0.00  56.  1008.   2 NAD-SFC NoSubs
 8  3  5  65  9   42.2  0.136  0.573  0.009  160.  158.     -5.4  0.1620  0.32  0.20   1.00  318.0  15.0  283.5  2.0   0  0.00  49.  1008.   2 NAD-SFC NoSubs
 8  3  5  65 10   69.8  0.126  0.809  0.007  272.  107.     -2.5  0.0780  0.32  0.16   1.00  271.0  15.0  285.2  2.0   0  0.00  44.  1008.   2 NAD-SFC NoSubs
 8  3  5  65 11   89.4  0.169  0.977  0.006  375.  166.     -4.8  0.0780  0.32  0.15   1.50  278.0  15.0  286.8  2.0   0  0.00  41.  1008.   2 NAD-SFC NoSubs
 8  3  5  65 12  100.2  0.216  1.123  0.006  507.  240.     -9.0  0.0780  0.32  0.15   2.10  280.0  15.0  288.4  2.0   0  0.00  38.  1007.   2 NAD-SFC NoSubs
 8  3  5  65 13  101.9  0.216  1.207  0.006  620.  241.     -8.9  0.0780  0.32  0.15   2.10  292.0  15.0  289.6  2.0   0  0.00  36.  1007.   2 NAD-SFC NoSubs
 8  3  5  65 14   94.4  0.195  1.241  0.007  728.  207.     -7.1  0.1620  0.32  0.15   1.50  307.0  15.0  290.8  2.0   0  0.00  34.  1007.   2 NAD-SFC NoSubs
 8  3  5  65 15   77.9  0.197  1.208  0.007  814.  209.     -8.8  0.1880  0.32  0.16   1.50  331.0  15.0  291.2  2.0   0  0.00  33.  1007.   2 NAD-SFC NoSubs
 8  3  5  65 16   53.1  0.239  1.087  0.007  869.  281.    -23.2  0.1880  0.32  0.18   2.10  339.0  15.0  292.0  2.0   0  0.00  37.  1007.   2 NAD-SFC NoSubs
 8  3  5  65 17   21.3  0.265  0.807  0.007  888.  327.    -78.2  0.1900  0.32  0.26   2.60    1.0  15.0  291.6  2.0   0  0.00  44.  1007.   2 NAD-SFC NoSubs
 8  3  5  65 18  -25.2  0.317 -9.000 -9.000 -999.  427.    113.1  0.1900  0.32  0.52   3.60    9.0  15.0  290.8  2.0   0  0.00  47.  1008.   2 NAD-SFC NoSubs
 8  3  5  65 19  -28.8  0.269 -9.000 -9.000 -999.  335.     60.5  0.1900  0.32  1.00   3.10   16.0  15.0  289.8  2.0   0  0.00  50.  1008.   2 NAD-SFC NoSubs
 8  3  5  65 20  -11.7  0.160 -9.000 -9.000 -999.  160.     31.5  0.1280  0.32  1.00   2.10   35.0  15.0  288.6  2.0   0  0.00  55.  1009.   2 NAD-SFC NoSubs
 8  3  5  65 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00   0.00    0.0  15.0  287.2  2.0   0  0.00  62.  1009.   2 NAD-SFC NoSubs
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 8  3  5  65 22   -2.3  0.076 -9.000 -9.000 -999.   51.     17.4  0.0340  0.32  1.00  1.00  220.0  15.0  285.9  2.0   0  0.00  69.  1010.   3 NAD-SFC NoSubs
 8  3  5  65 23   -4.2  0.092 -9.000 -9.000 -999.   67.     16.7  0.0340  0.32  1.00  1.50  232.0  15.0  285.1  2.0   0  0.00  73.  1010.   2 NAD-SFC NoSubs
 8  3  5  65 24   -4.1  0.091 -9.000 -9.000 -999.   66.     16.4  0.0310  0.32  1.00  1.50  240.0  15.0  284.5  2.0   0  0.00  74.  1010.   2 NAD-SFC NoSubs
 8  3  6  66  1   -5.2  0.105 -9.000 -9.000 -999.   81.     19.8  0.0780  0.32  1.00  1.50  274.0  15.0  283.9  2.0   0  0.00  74.  1011.   2 NAD-SFC NoSubs
 8  3  6  66  2  -15.7  0.181 -9.000 -9.000 -999.  185.     34.3  0.0780  0.32  1.00  2.60  292.0  15.0  283.2  2.0   0  0.00  73.  1011.   2 NAD-SFC NoSubs
 8  3  6  66  3  -38.2  0.346 -9.000 -9.000 -999.  488.     97.7  0.1620  0.32  1.00  4.10  301.0  15.0  282.4  2.0   0  0.00  70.  1012.   2 NAD-SFC NoSubs
 8  3  6  66  4  -32.7  0.295 -9.000 -9.000 -999.  385.     70.5  0.0780  0.32  1.00  4.10  296.0  15.0  281.2  2.0   0  0.00  67.  1012.   2 NAD-SFC NoSubs
 8  3  6  66  5  -28.6  0.257 -9.000 -9.000 -999.  313.     53.5  0.0780  0.32  1.00  3.60  297.0  15.0  280.5  2.0   0  0.00  65.  1013.   2 NAD-SFC NoSubs
 8  3  6  66  6  -28.8  0.258 -9.000 -9.000 -999.  314.     53.9  0.1620  0.32  1.00  3.10  301.0  15.0  280.1  2.0   0  0.00  62.  1014.   2 NAD-SFC NoSubs
 8  3  6  66  7  -15.7  0.181 -9.000 -9.000 -999.  187.     34.2  0.0780  0.32  0.68  2.60  286.0  15.0  279.8  2.0   0  0.00  60.  1015.   2 NAD-SFC NoSubs
 8  3  6  66  8    9.8  0.246  0.246  0.005   55.  293.   -137.3  0.1620  0.32  0.31  2.60  301.0  15.0  280.4  2.0   0  0.00  56.  1015.   2 NAD-SFC NoSubs
 8  3  6  66  9   42.9  0.268  0.538  0.005  132.  334.    -40.9  0.1620  0.32  0.19  2.60  306.0  15.0  281.8  2.0   0  0.00  46.  1016.   2 NAD-SFC NoSubs
 8  3  6  66 10   70.4  0.082  0.732  0.006  202.  104.     -1.0  0.0780  0.32  0.16  0.50  298.0  15.0  283.1  2.0   0  0.00  43.  1016.   2 NAD-SFC NoSubs
 8  3  6  66 11   90.1  0.071  0.949  0.005  344.   46.     -1.0  0.0310  0.32  0.15  0.50  266.0  15.0  285.5  2.0   0  0.00  36.  1016.   2 NAD-SFC NoSubs
 8  3  6  66 12  100.7  0.131  1.131  0.005  520.  114.     -2.0  0.0780  0.32  0.15  1.00  293.0  15.0  286.8  2.0   0  0.00  34.  1015.   2 NAD-SFC NoSubs
 8  3  6  66 13  102.3  0.086  1.245  0.005  683.   61.     -1.0  0.0780  0.32  0.14  0.50  299.0  15.0  287.6  2.0   0  0.00  35.  1014.   2 NAD-SFC NoSubs
 8  3  6  66 14   94.6  0.150  1.284  0.005  808.  139.     -3.2  0.1620  0.32  0.15  1.00  302.0  15.0  288.1  2.0   0  0.00  35.  1013.   2 NAD-SFC NoSubs
 8  3  6  66 15   78.1  0.147  1.247  0.006  899.  135.     -3.6  0.1620  0.32  0.15  1.00  328.0  15.0  288.6  2.0   0  0.00  35.  1013.   2 NAD-SFC NoSubs
 8  3  6  66 16   53.1 -9.000 -9.000 -9.000  956. -999. -99999.0  0.0879  0.32  0.18  0.00    0.0  15.0  289.1  2.0   0  0.00  36.  1013.   2 NAD-SFC NoSubs
 8  3  6  66 17   21.3  0.160  0.833  0.006  976.  154.    -17.3  0.1280  0.32  0.26  1.50   32.0  15.0  288.9  2.0   0  0.00  39.  1012.   2 NAD-SFC NoSubs
 8  3  6  66 18   -4.3  0.102 -9.000 -9.000 -999.   79.     22.2  0.0760  0.32  0.52  1.50   62.0  15.0  288.2  2.0   0  0.00  43.  1013.   2 NAD-SFC NoSubs
 8  3  6  66 19   -1.1  0.070 -9.000 -9.000 -999.   44.     27.9  0.0510  0.32  1.00  0.50   91.0  15.0  287.5  2.0   0  0.00  47.  1013.   2 NAD-SFC NoSubs
 8  3  6  66 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  286.8  2.0   0  0.00  52.  1013.   2 NAD-SFC NoSubs
 8  3  6  66 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  286.1  2.0   0  0.00  56.  1013.   2 NAD-SFC NoSubs
 8  3  6  66 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  285.6  2.0   0  0.00  59.  1014.   2 NAD-SFC NoSubs
 8  3  6  66 23   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.1900  0.32  1.00  0.50   25.0  15.0  285.0  2.0   0  0.00  62.  1014.   2 NAD-SFC NoSubs
 8  3  6  66 24   -3.2  0.090 -9.000 -9.000 -999.   65.     20.8  0.1280  0.32  1.00  1.00   30.0  15.0  284.1  2.0   0  0.00  66.  1014.   2 NAD-SFC NoSubs
 8  3  7  67  1   -7.0  0.125 -9.000 -9.000 -999.  106.     25.1  0.1900  0.32  1.00  1.50   22.0  15.0  283.2  2.0   0  0.00  70.  1013.   2 NAD-SFC NoSubs
 8  3  7  67  2   -3.6  0.096 -9.000 -9.000 -999.   71.     22.0  0.1900  0.32  1.00  1.00   18.0  15.0  282.4  2.0   0  0.00  73.  1013.   2 NAD-SFC NoSubs
 8  3  7  67  3   -1.5  0.081 -9.000 -9.000 -999.   55.     31.5  0.1880  0.32  1.00  0.50  358.0  15.0  281.8  2.0   0  0.00  76.  1013.   2 NAD-SFC NoSubs
 8  3  7  67  4   -1.2  0.074 -9.000 -9.000 -999.   48.     29.2  0.0780  0.32  1.00  0.50  286.0  15.0  281.2  2.0   0  0.00  78.  1014.   2 NAD-SFC NoSubs
 8  3  7  67  5   -3.4  0.094 -9.000 -9.000 -999.   69.     21.5  0.1620  0.32  1.00  1.00  302.0  15.0  280.8  2.0   0  0.00  80.  1014.   2 NAD-SFC NoSubs
 8  3  7  67  6   -6.7  0.121 -9.000 -9.000 -999.  101.     23.8  0.1620  0.32  1.00  1.50  304.0  15.0  280.4  2.0   0  0.00  80.  1014.   2 NAD-SFC NoSubs
 8  3  7  67  7  -10.0  0.144 -9.000 -9.000 -999.  131.     26.8  0.0780  0.32  0.67  2.10  298.0  15.0  280.2  2.0   0  0.00  80.  1014.   2 NAD-SFC NoSubs
 8  3  7  67  8   10.8  0.247  0.236  0.009   44.  295.   -126.1  0.1620  0.32  0.30  2.60  310.0  15.0  282.0  2.0   0  0.00  66.  1014.   2 NAD-SFC NoSubs
 8  3  7  67  9   44.1  0.229  0.552  0.009  138.  262.    -24.5  0.1620  0.32  0.19  2.10  310.0  15.0  283.9  2.0   0  0.00  56.  1014.   2 NAD-SFC NoSubs
 8  3  7  67 10   71.7  0.145  0.823  0.009  281.  135.     -3.8  0.1620  0.32  0.16  1.00  314.0  15.0  286.1  2.0   0  0.00  48.  1014.   2 NAD-SFC NoSubs
 8  3  7  67 11   91.3  0.149  1.007  0.008  404.  138.     -3.3  0.1620  0.32  0.15  1.00  301.0  15.0  288.0  2.0   0  0.00  42.  1013.   2 NAD-SFC NoSubs
 8  3  7  67 12  102.0  0.197  1.118  0.007  494.  209.     -6.7  0.1620  0.32  0.15  1.50  310.0  15.0  289.6  2.0   0  0.00  38.  1012.   2 NAD-SFC NoSubs
 8  3  7  67 13  103.7  0.203  1.181  0.007  573.  220.     -7.3  0.1880  0.32  0.14  1.50  333.0  15.0  291.1  2.0   0  0.00  34.  1011.   2 NAD-SFC NoSubs
 8  3  7  67 14   96.1  0.253  1.193  0.006  637.  306.    -15.2  0.1880  0.32  0.15  2.10  345.0  15.0  292.1  2.0   0  0.00  32.  1010.   2 NAD-SFC NoSubs
 8  3  7  67 15   79.5  0.290  1.159  0.006  706.  376.    -27.8  0.1880  0.32  0.15  2.60  341.0  15.0  292.4  2.0   0  0.00  31.  1010.   2 NAD-SFC NoSubs
 8  3  7  67 16   54.4  0.282  1.047  0.006  759.  359.    -37.0  0.1880  0.32  0.18  2.60  352.0  15.0  292.1  2.0   0  0.00  37.  1009.   2 NAD-SFC NoSubs
 8  3  7  67 17   22.4  0.265  0.785  0.005  778.  327.    -74.6  0.1880  0.32  0.25  2.60  359.0  15.0  291.2  2.0   0  0.00  43.  1009.   2 NAD-SFC NoSubs
 8  3  7  67 18  -17.0  0.225 -9.000 -9.000 -999.  257.     60.7  0.1900  0.32  0.51  2.60    4.0  15.0  290.2  2.0   0  0.00  47.  1009.   2 NAD-SFC NoSubs
 8  3  7  67 19   -3.5  0.095 -9.000 -9.000 -999.   83.     21.9  0.1880  0.32  1.00  1.00  354.0  15.0  289.2  2.0   0  0.00  50.  1010.   2 NAD-SFC NoSubs
 8  3  7  67 20   -1.0  0.067 -9.000 -9.000 -999.   41.     26.7  0.0310  0.32  1.00  0.50  260.0  15.0  288.4  2.0   0  0.00  55.  1010.   2 NAD-SFC NoSubs
 8  3  7  67 21   -2.8  0.084 -9.000 -9.000 -999.   59.     19.4  0.0780  0.32  1.00  1.00  281.0  15.0  287.5  2.0   0  0.00  58.  1010.   2 NAD-SFC NoSubs
 8  3  7  67 22   -5.2  0.104 -9.000 -9.000 -999.   81.     19.9  0.0780  0.32  1.00  1.50  286.0  15.0  287.0  2.0   0  0.00  60.  1011.   2 NAD-SFC NoSubs
 8  3  7  67 23   -6.6  0.120 -9.000 -9.000 -999.  100.     24.0  0.1620  0.32  1.00  1.50  307.0  15.0  286.5  2.0   0  0.00  59.  1011.   2 NAD-SFC NoSubs
 8  3  7  67 24  -12.9  0.170 -9.000 -9.000 -999.  168.     34.0  0.1620  0.32  1.00  2.10  324.0  15.0  286.0  2.0   0  0.00  58.  1011.   2 NAD-SFC NoSubs
 8  3  8  68  1  -12.9  0.170 -9.000 -9.000 -999.  168.     33.9  0.1620  0.32  1.00  2.10  319.0  15.0  285.2  2.0   0  0.00  59.  1011.   2 NAD-SFC NoSubs
 8  3  8  68  2   -6.6  0.121 -9.000 -9.000 -999.  101.     24.0  0.1620  0.32  1.00  1.50  313.0  15.0  284.6  2.0   0  0.00  60.  1011.   2 NAD-SFC NoSubs
 8  3  8  68  3  -10.0  0.144 -9.000 -9.000 -999.  131.     26.8  0.0780  0.32  1.00  2.10  298.0  15.0  283.9  2.0   0  0.00  61.  1011.   2 NAD-SFC NoSubs
 8  3  8  68  4  -13.0  0.169 -9.000 -9.000 -999.  167.     33.8  0.1620  0.32  1.00  2.10  312.0  15.0  283.2  2.0   0  0.00  64.  1011.   2 NAD-SFC NoSubs
 8  3  8  68  5   -6.6  0.121 -9.000 -9.000 -999.  101.     23.9  0.1620  0.32  1.00  1.50  310.0  15.0  282.8  2.0   0  0.00  67.  1011.   2 NAD-SFC NoSubs
 8  3  8  68  6   -3.4  0.093 -9.000 -9.000 -999.   69.     21.5  0.1620  0.32  1.00  1.00  302.0  15.0  282.2  2.0   0  0.00  70.  1012.   2 NAD-SFC NoSubs
 8  3  8  68  7   -1.4  0.079 -9.000 -9.000 -999.   53.     30.8  0.1620  0.32  0.65  0.50  305.0  15.0  281.8  2.0   0  0.00  72.  1012.   2 NAD-SFC NoSubs
 8  3  8  68  8   11.8  0.122  0.288  0.010   73.  103.    -14.0  0.1880  0.32  0.30  1.00  330.0  15.0  283.0  2.0   0  0.00  68.  1012.   2 NAD-SFC NoSubs
 8  3  8  68  9   45.7  0.092  0.635  0.009  202.   67.     -1.5  0.1880  0.32  0.19  0.50  332.0  15.0  284.8  2.0   0  0.00  62.  1012.   3 NAD-SFC NoSubs
 8  3  8  68 10   73.0  0.095  0.845  0.007  298.   70.     -1.1  0.1620  0.32  0.16  0.50  306.0  15.0  286.8  2.0   0  0.00  53.  1011.   3 NAD-SFC NoSubs
 8  3  8  68 11   92.3  0.149  0.997  0.006  387.  138.     -3.2  0.1620  0.32  0.15  1.00  315.0  15.0  288.2  2.0   0  0.00  47.  1011.   3 NAD-SFC NoSubs
 8  3  8  68 12  102.9  0.248  1.137  0.005  514.  296.    -13.3  0.1620  0.32  0.14  2.10  316.0  15.0  289.8  2.0   0  0.00  44.  1009.   3 NAD-SFC NoSubs
 8  3  8  68 13  104.5  0.330  1.216  0.005  619.  454.    -30.8  0.1620  0.32  0.14  3.10  322.0  15.0  291.0  2.0   0  0.00  42.  1008.   3 NAD-SFC NoSubs
 8  3  8  68 14   96.8  0.420  1.258  0.005  740.  653.    -68.8  0.1880  0.32  0.15  4.10  334.0  15.0  291.8  2.0   0  0.00  44.  1007.   2 NAD-SFC NoSubs
 8  3  8  68 15   80.1  0.457  1.238  0.006  850.  741.   -107.0  0.1880  0.32  0.15  4.60  340.0  15.0  292.1  2.0   0  0.00  46.  1006.   2 NAD-SFC NoSubs
 8  3  8  68 16   55.0  0.492  1.120  0.006  917.  827.   -193.6  0.1880  0.32  0.18  5.10  344.0  15.0  292.0  2.0   0  0.00  50.  1005.   2 NAD-SFC NoSubs
 8  3  8  68 17   23.1  0.307  0.846  0.006  942.  438.   -112.8  0.1880  0.32  0.25  3.10  335.0  15.0  291.6  2.0   0  0.00  60.  1005.   2 NAD-SFC NoSubs
 8  3  8  68 18  -17.5  0.261 -9.000 -9.000 -999.  322.     91.6  0.1620  0.32  0.50  3.10  325.0  15.0  290.8  2.0   0  0.00  63.  1005.   3 NAD-SFC NoSubs
 8  3  8  68 19  -19.7  0.214 -9.000 -9.000 -999.  238.     44.6  0.1620  0.32  1.00  2.60  316.0  15.0  289.5  2.0   0  0.00  67.  1006.   3 NAD-SFC NoSubs
 8  3  8  68 20   -6.4  0.120 -9.000 -9.000 -999.  104.     24.4  0.1620  0.32  1.00  1.50  326.0  15.0  288.5  2.0   0  0.00  71.  1006.   3 NAD-SFC NoSubs
 8  3  8  68 21   -6.8  0.124 -9.000 -9.000 -999.  105.     25.5  0.1880  0.32  1.00  1.50  338.0  15.0  287.6  2.0   0  0.00  73.  1007.   3 NAD-SFC NoSubs
 8  3  8  68 22   -3.4  0.094 -9.000 -9.000 -999.   70.     21.9  0.1880  0.32  1.00  1.00  337.0  15.0  286.8  2.0   0  0.00  76.  1007.   3 NAD-SFC NoSubs
 8  3  8  68 23   -1.5  0.079 -9.000 -9.000 -999.   54.     31.0  0.1880  0.32  1.00  0.50  337.0  15.0  286.1  2.0   0  0.00  78.  1008.   3 NAD-SFC NoSubs
 8  3  8  68 24   -1.5  0.079 -9.000 -9.000 -999.   54.     31.0  0.1880  0.32  1.00  0.50  348.0  15.0  285.6  2.0   0  0.00  79.  1008.   3 NAD-SFC NoSubs
 8  3  9  69  1   -1.4  0.078 -9.000 -9.000 -999.   52.     30.7  0.1620  0.32  1.00  0.50  309.0  15.0  285.1  2.0   0  0.00  80.  1008.   3 NAD-SFC NoSubs
 8  3  9  69  2   -1.0  0.067 -9.000 -9.000 -999.   42.     26.8  0.0310  0.32  1.00  0.50  260.0  15.0  284.6  2.0   0  0.00  81.  1008.   2 NAD-SFC NoSubs
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8	3	9	69	3	-2.4	0.077	-9.000	-9.000	-999.	51.	17.6	0.0340	0.32	1.00	1.00	239.0	15.0	284.2	2.0	0	0.00	82.	1008.	2	NAD-SFC	NoSubs
8	3	9	69	4	-7.7	0.122	-9.000	-9.000	-999.	102.	20.9	0.0310	0.32	1.00	2.10	240.0	15.0	283.8	2.0	0	0.00	82.	1008.	2	NAD-SFC	NoSubs
8	3	9	69	5	-17.3	0.185	-9.000	-9.000	-999.	190.	32.6	0.0310	0.32	1.00	3.10	247.0	15.0	283.4	2.0	0	0.00	81.	1009.	2	NAD-SFC	NoSubs
8	3	9	69	6	-23.7	0.217	-9.000	-9.000	-999.	242.	38.7	0.0310	0.32	1.00	3.60	261.0	15.0	282.9	2.0	0	0.00	80.	1009.	2	NAD-SFC	NoSubs
8	3	9	69	7	-23.1	0.217	-9.000	-9.000	-999.	242.	39.8	0.0310	0.32	0.64	3.60	269.0	15.0	282.4	2.0	0	0.00	79.	1010.	2	NAD-SFC	NoSubs
8	3	9	69	8	12.7	0.217	0.313	0.008	86.	243.	-72.4	0.0780	0.32	0.29	2.60	297.0	15.0	283.6	2.0	0	0.00	71.	1010.	2	NAD-SFC	NoSubs
8	3	9	69	9	46.0	0.230	0.699	0.008	267.	264.	-23.7	0.1620	0.32	0.19	2.10	305.0	15.0	285.2	2.0	0	0.00	63.	1010.	2	NAD-SFC	NoSubs
8	3	9	69	10	73.6	0.209	0.911	0.008	369.	230.	-11.2	0.0780	0.32	0.16	2.10	280.0	15.0	287.5	2.0	0	0.00	53.	1010.	2	NAD-SFC	NoSubs
8	3	9	69	11	93.1	0.214	1.079	0.009	486.	237.	-9.5	0.0780	0.32	0.15	2.10	292.0	15.0	289.1	2.0	0	0.00	48.	1010.	2	NAD-SFC	NoSubs
8	3	9	69	12	103.8	0.248	1.196	0.009	594.	296.	-13.2	0.1620	0.32	0.14	2.10	305.0	15.0	290.6	2.0	0	0.00	44.	1009.	2	NAD-SFC	NoSubs
8	3	9	69	13	105.3	0.248	1.259	0.010	681.	297.	-13.1	0.1620	0.32	0.14	2.10	309.0	15.0	291.8	2.0	0	0.00	41.	1008.	2	NAD-SFC	NoSubs
8	3	9	69	14	97.7	0.246	1.263	0.010	743.	294.	-13.8	0.1620	0.32	0.15	2.10	316.0	15.0	292.8	2.0	0	0.00	40.	1008.	2	NAD-SFC	NoSubs
8	3	9	69	15	81.0	0.249	1.212	0.010	790.	299.	-17.2	0.1880	0.32	0.15	2.10	340.0	15.0	293.2	2.0	0	0.00	39.	1008.	2	NAD-SFC	NoSubs
8	3	9	69	16	55.9	0.241	1.085	0.010	821.	283.	-22.4	0.1880	0.32	0.18	2.10	348.0	15.0	293.2	2.0	0	0.00	39.	1007.	2	NAD-SFC	NoSubs
8	3	9	69	17	23.9	0.266	0.822	0.010	833.	330.	-71.0	0.1900	0.32	0.25	2.60	8.0	15.0	292.9	2.0	0	0.00	46.	1008.	2	NAD-SFC	NoSubs
8	3	9	69	18	-15.5	0.226	-9.000	-9.000	-999.	258.	67.0	0.1900	0.32	0.50	2.60	24.0	15.0	291.9	2.0	0	0.00	49.	1008.	2	NAD-SFC	NoSubs
8	3	9	69	19	-21.3	0.223	-9.000	-9.000	-999.	252.	46.6	0.1900	0.32	1.00	2.60	26.0	15.0	290.9	2.0	0	0.00	53.	1009.	2	NAD-SFC	NoSubs
8	3	9	69	20	-3.1	0.090	-9.000	-9.000	-999.	79.	20.7	0.1280	0.32	1.00	1.00	39.0	15.0	289.9	2.0	0	0.00	57.	1009.	2	NAD-SFC	NoSubs
8	3	9	69	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	288.9	2.0	0	0.00	63.	1010.	2	NAD-SFC	NoSubs
8	3	9	69	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	288.0	2.0	0	0.00	68.	1010.	2	NAD-SFC	NoSubs
8	3	9	69	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	287.4	2.0	0	0.00	72.	1011.	2	NAD-SFC	NoSubs
8	3	9	69	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	286.8	2.0	0	0.00	74.	1011.	2	NAD-SFC	NoSubs
8	3	10	70	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	286.5	2.0	0	0.00	76.	1011.	2	NAD-SFC	NoSubs
8	3	10	70	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	286.1	2.0	0	0.00	77.	1012.	2	NAD-SFC	NoSubs
8	3	10	70	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	285.8	2.0	0	0.00	79.	1012.	2	NAD-SFC	NoSubs
8	3	10	70	4	-1.2	0.073	-9.000	-9.000	-999.	47.	29.1	0.0780	0.32	1.00	0.50	294.0	15.0	285.5	2.0	0	0.00	78.	1012.	2	NAD-SFC	NoSubs
8	3	10	70	5	-3.4	0.093	-9.000	-9.000	-999.	68.	21.5	0.1620	0.32	1.00	1.00	315.0	15.0	285.4	2.0	0	0.00	77.	1013.	2	NAD-SFC	NoSubs
8	3	10	70	6	-6.6	0.120	-9.000	-9.000	-999.	100.	24.0	0.1620	0.32	1.00	1.50	312.0	15.0	285.4	2.0	0	0.00	76.	1013.	2	NAD-SFC	NoSubs
8	3	10	70	7	-3.3	0.092	-9.000	-9.000	-999.	67.	21.4	0.1620	0.32	0.63	1.00	307.0	15.0	285.2	2.0	0	0.00	75.	1014.	2	NAD-SFC	NoSubs
8	3	10	70	8	13.8	0.120	0.272	0.007	52.	100.	-11.4	0.1620	0.32	0.29	1.00	302.0	15.0	285.2	2.0	0	0.00	74.	1014.	2	NAD-SFC	NoSubs
8	3	10	70	9	47.1	0.270	0.589	0.006	156.	338.	-38.0	0.1620	0.32	0.19	2.60	318.0	15.0	286.6	2.0	0	0.00	64.	1014.	2	NAD-SFC	NoSubs
8	3	10	70	10	74.6	0.190	0.870	0.006	320.	201.	-8.3	0.1620	0.32	0.16	1.50	314.0	15.0	288.2	2.0	0	0.00	57.	1014.	2	NAD-SFC	NoSubs
8	3	10	70	11	94.1	0.150	1.077	0.006	480.	139.	-3.2	0.1620	0.32	0.15	1.00	308.0	15.0	290.2	2.0	0	0.00	50.	1014.	2	NAD-SFC	NoSubs
8	3	10	70	12	104.7	0.197	1.216	0.006	621.	210.	-6.6	0.1620	0.32	0.14	1.50	313.0	15.0	291.2	2.0	0	0.00	46.	1014.	2	NAD-SFC	NoSubs
8	3	10	70	13	106.0	0.289	1.286	0.006	726.	373.	-20.6	0.1620	0.32	0.14	2.60	317.0	15.0	291.6	2.0	0	0.00	45.	1013.	2	NAD-SFC	NoSubs
8	3	10	70	14	98.1	0.287	1.298	0.006	806.	369.	-21.8	0.1620	0.32	0.15	2.60	327.0	15.0	291.8	2.0	0	0.00	44.	1013.	2	NAD-SFC	NoSubs
8	3	10	70	15	81.4	0.291	1.251	0.006	868.	377.	-27.3	0.1880	0.32	0.15	2.60	355.0	15.0	292.0	2.0	0	0.00	43.	1012.	2	NAD-SFC	NoSubs
8	3	10	70	16	56.3	0.283	1.123	0.006	908.	362.	-36.4	0.1900	0.32	0.18	2.60	14.0	15.0	292.1	2.0	0	0.00	46.	1012.	2	NAD-SFC	NoSubs
8	3	10	70	17	24.3	0.225	0.853	0.005	924.	258.	-42.5	0.1900	0.32	0.25	2.10	19.0	15.0	291.8	2.0	0	0.00	48.	1012.	2	NAD-SFC	NoSubs
8	3	10	70	18	-0.9	0.063	-9.000	-9.000	-999.	76.	25.9	0.1280	0.32	0.49	0.50	56.0	15.0	291.0	2.0	0	0.00	50.	1012.	2	NAD-SFC	NoSubs
8	3	10	70	19	-1.0	0.067	-9.000	-9.000	-999.	42.	26.8	0.0340	0.32	1.00	0.50	235.0	15.0	290.2	2.0	0	0.00	54.	1012.	2	NAD-SFC	NoSubs
8	3	10	70	20	-4.1	0.091	-9.000	-9.000	-999.	66.	16.5	0.0310	0.32	1.00	1.50	257.0	15.0	289.6	2.0	0	0.00	57.	1013.	2	NAD-SFC	NoSubs
8	3	10	70	21	-1.0	0.067	-9.000	-9.000	-999.	41.	26.6	0.0310	0.32	1.00	0.50	260.0	15.0	289.4	2.0	0	0.00	58.	1013.	2	NAD-SFC	NoSubs
8	3	10	70	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	289.1	2.0	0	0.00	60.	1013.	2	NAD-SFC	NoSubs
8	3	10	70	23	-1.2	0.073	-9.000	-9.000	-999.	47.	28.9	0.0760	0.32	1.00	0.50	81.0	15.0	288.8	2.0	0	0.00	62.	1013.	2	NAD-SFC	NoSubs
8	3	10	70	24	-2.8	0.084	-9.000	-9.000	-999.	58.	19.3	0.0760	0.32	1.00	1.00	83.0	15.0	288.0	2.0	0	0.00	66.	1013.	2	NAD-SFC	NoSubs
8	3	11	71	1	-2.5	0.080	-9.000	-9.000	-999.	55.	18.4	0.0510	0.32	1.00	1.00	110.0	15.0	287.2	2.0	0	0.00	70.	1013.	2	NAD-SFC	NoSubs
8	3	11	71	2	-1.1	0.070	-9.000	-9.000	-999.	44.	27.9	0.0510	0.32	1.00	0.50	107.0	15.0	286.9	2.0	0	0.00	72.	1013.	2	NAD-SFC	NoSubs
8	3	11	71	3	-1.5	0.080	-9.000	-9.000	-999.	55.	31.3	0.1880	0.32	1.00	0.50	330.0	15.0	286.4	2.0	0	0.00	75.	1013.	2	NAD-SFC	NoSubs
8	3	11	71	4	-21.5	0.222	-9.000	-9.000	-999.	251.	46.0	0.1880	0.32	1.00	2.60	330.0	15.0	285.9	2.0	0	0.00	75.	1013.	2	NAD-SFC	NoSubs
8	3	11	71	5	-28.3	0.258	-9.000	-9.000	-999.	315.	54.9	0.1620	0.32	1.00	3.10	319.0	15.0	285.1	2.0	0	0.00	77.	1013.	2	NAD-SFC	NoSubs
8	3	11	71	6	-28.4	0.258	-9.000	-9.000	-999.	315.	54.7	0.1620	0.32	1.00	3.10	311.0	15.0	284.4	2.0	0	0.00	80.	1014.	2	NAD-SFC	NoSubs
8	3	11	71	7	-19.7	0.214	-9.000	-9.000	-999.	239.	45.2	0.1620	0.32	0.61	2.60	309.0	15.0	283.9	2.0	0	0.00	82.	1014.	2	NAD-SFC	NoSubs
8	3	11	71	8	14.6	0.301	0.310	0.007	74.	396.	-168.0	0.1880	0.32	0.28	3.10	337.0	15.0	285.1	2.0	0	0.00	84.	1014.	2	NAD-SFC	NoSubs
8	3	11	71	9	48.0	0.187	0.634	0.007	192.	200.	-12.2	0.1880	0.32	0.19	1.50	335.0	15.0	286.8	2.0	0	0.00	78.	1014.	2	NAD-SFC	NoSubs
8	3	11	71	10	75.6	0.095	0.898	0.007	347.	75.	-1.0	0.1620	0.32	0.16	0.50	309.0	15.0	289.0	2.0	0	0.00	65.	1014.	2	NAD-SFC	NoSubs
8	3	11	71	11	95.0	-9.000	-9.000	-9.000	490.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	290.6	2.0	0	0.00	58.	1013.	2	NAD-SFC	NoSubs
8	3	11	71	12	105.6	-9.000	-9.000	-9.000	616.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	292.1	2.0	0	0.00	51.	1012.	2	NAD-SFC	NoSubs
8	3	11	71	13	107.1	-9.000	-9.000	-9.000	713.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	293.2	2.0	0	0.00	47.	1011.	2	NAD-SFC	NoSubs
8	3	11	71	14	99.4	-9.000	-9.000	-9.000	788.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	294.2	2.0	0	0.00	44.	1010.	2	NAD-SFC	NoSubs
8	3	11	71	15	82.8	0.147	1.248	0.006	846.	136.	-3.5	0.1620	0.32	0.15	1.00	320.0	15.0	294.9	2.0	0	0.00	42.	1009.	2	NAD-SFC	NoSubs
8	3	11	71	16	57.6	0.241	1.123	0.006	884.	284.	-21.9	0.1880	0.32	0.17	2.10	343.0	15.0	294.9	2.0	0	0.00	43.	1008.	2	NAD-SFC	NoSubs
8	3	11	71	17	25.4	0.309	0.860	0.005	899.	413.	-104.7	0.1900	0.32	0.25	3.10	2.0	15.0	294.2	2.0	0	0.00	52.	1008.	2	NAD-SFC	NoSubs
8	3	11	71	18	-22.5	0.364	-9.000	-9.000	-999.	527.	192.9	0.1900	0.32	0.48	4.10	15.0	15.0	292.9	2.0	0	0.00	60.	1008.	2	NAD-SFC	NoSubs
8	3	11	71	19	-33.5	0.315	-9.000	-9.000	-999.	425.	83.4	0.1900	0.32	1.00	3.60	14.0	15.0	291.6	2.0	0	0.00	68.	1008.	2	NAD-SFC	NoSubs
8	3	11	71	20	-33.6	0.314	-9.000	-9.000	-999.	422.	82.7	0.1880	0.32	1.00	3.60	351.0	15.0	290.8	2.0	0	0.00	71.	1009.	2	NAD-SFC	NoSubs
8	3	11	71	21	-32.4	0.302	-9.000	-9.000	-999.	399.	76.5	0.1620	0.32	1.00	3.60	327.0	15.0	289.9	2.0	0	0.00	77.	1009.	2	NAD-SFC	NoSubs
8	3	11	71	22	-37.3	0.346	-9.000	-9.000	-999.	489.	100.1	0.1620	0.32	1.00	4.10	317.0	15.0	288.9	2.0	0	0.00	82.	1009.	2	NAD-SFC	NoSubs
8	3	11	71	23	-37.5	0.346	-9.000	-9.000	-999.	489.	99.6	0.1620	0.32	1.00	4.10	327.0	15.0	287.8	2.0	0	0.00	86.	1010.	2	NAD-SFC	NoSubs
8	3	11	71	24	-34.0	0.314	-9.000	-9.000	-999.	422.	81.5	0.1880	0.32	1.00	3.60	340.0	15.0	286.9	2.0	0	0.00	87.	1010.	2	NAD-SFC	NoSubs
8	3	12	72	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	286.2	2.0	0	0.00	87.	1010.	2	NAD-SFC	NoSubs
8	3	12	72	2	-13.6	0.177	-9.000	-9.000	-999.	178.	36.5	0.1900	0.32	1.00	2.10	9.0	15.0	285.5	2.0	0	0.00	86.	1010.	3	NAD-SFC	NoSubs
8	3	12	72	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	285.0	2.0	0	0.00	86.	1010.	3	NAD-SFC	NoSubs
8	3	12	72	4	-1.5	0.080	-9.000	-9.000	-999.	54.	31.1	0.1880	0.32	1.00	0.50	338.0	15.0	284.6	2.0	0	0.00	86.	1010.	3	NAD-SFC	NoSubs
8	3	12	72	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	284.2	2.0	0	0.00	87.	1010.	3	NAD-SFC	NoSubs
8	3	12	72	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	284.0	2.0	0	0.00	87.	1011.	3	NAD-SFC	NoSubs
8	3	12	72	7	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	0.60	0.00	0.0	15.0	283.8	2.0	0	0.00	88.	1011.	3	NAD-SFC	NoSubs

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 8  3 12  72  8   16.3  0.122  0.415  0.008  159.  103.    -10.2  0.1620  0.32  0.28  1.00  323.0  15.0  284.2  2.0  0  0.00  82.  1011.  3 NAD-SFC NoSubs
 8  3 12  72  9   49.3  0.143  0.716  0.008  268.  129.     -5.3  0.1880  0.32  0.18  1.00  338.0  15.0  285.5  2.0  0  0.00  73.  1011.  3 NAD-SFC NoSubs
 8  3 12  72 10   76.4  0.146  0.911  0.007  356.  134.     -3.7  0.1620  0.32  0.16  1.00  324.0  15.0  287.0  2.0  0  0.00  66.  1010.  3 NAD-SFC NoSubs
 8  3 12  72 11   95.4  0.150  1.077  0.006  471.  139.     -3.2  0.1620  0.32  0.15  1.00  307.0  15.0  288.5  2.0  0  0.00  60.  1010.  2 NAD-SFC NoSubs
 8  3 12  72 12  105.9  0.198  1.201  0.007  590.  211.     -6.5  0.1620  0.32  0.14  1.50  308.0  15.0  289.9  2.0  0  0.00  54.  1009.  2 NAD-SFC NoSubs
 8  3 12  72 13  107.3  0.249  1.276  0.008  696.  298.    -12.9  0.1620  0.32  0.14  2.10  319.0  15.0  291.2  2.0  0  0.00  49.  1008.  2 NAD-SFC NoSubs
 8  3 12  72 14   99.6  0.288  1.301  0.010  794.  370.    -21.4  0.1620  0.32  0.15  2.60  327.0  15.0  292.2  2.0  0  0.00  43.  1007.  2 NAD-SFC NoSubs
 8  3 12  72 15   82.9  0.333  1.260  0.010  867.  462.    -40.1  0.1880  0.32  0.15  3.10  333.0  15.0  292.8  2.0  0  0.00  38.  1007.  2 NAD-SFC NoSubs
 8  3 12  72 16   57.7  0.355  1.137  0.011  914.  508.    -69.6  0.1620  0.32  0.17  3.60  328.0  15.0  292.8  2.0  0  0.00  36.  1006.  2 NAD-SFC NoSubs
 8  3 12  72 17   25.6  0.267  0.873  0.011  933.  335.    -66.7  0.1880  0.32  0.24  2.60  338.0  15.0  292.4  2.0  0  0.00  44.  1006.  2 NAD-SFC NoSubs
 8  3 12  72 18  -13.6  0.226 -9.000 -9.000 -999.  259.     76.3  0.1880  0.32  0.48  2.60  352.0  15.0  291.8  2.0  0  0.00  47.  1007.  2 NAD-SFC NoSubs
 8  3 12  72 19  -13.6  0.177 -9.000 -9.000 -999.  179.     36.3  0.1900  0.32  1.00  2.10    2.0  15.0  290.5  2.0  0  0.00  52.  1007.  2 NAD-SFC NoSubs
 8  3 12  72 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  289.2  2.0  0  0.00  56.  1007.  2 NAD-SFC NoSubs
 8  3 12  72 21   -3.5  0.095 -9.000 -9.000 -999.   70.     21.9  0.1880  0.32  1.00  1.00  335.0  15.0  288.4  2.0  0  0.00  59.  1008.  2 NAD-SFC NoSubs
 8  3 12  72 22   -3.4  0.093 -9.000 -9.000 -999.   68.     21.5  0.1620  0.32  1.00  1.00  315.0  15.0  287.5  2.0  0  0.00  62.  1008.  2 NAD-SFC NoSubs
 8  3 12  72 23   -6.5  0.120 -9.000 -9.000 -999.  100.     24.1  0.1620  0.32  1.00  1.50  313.0  15.0  286.8  2.0  0  0.00  63.  1008.  2 NAD-SFC NoSubs
 8  3 12  72 24   -6.5  0.120 -9.000 -9.000 -999.  100.     24.0  0.1620  0.32  1.00  1.50  309.0  15.0  286.2  2.0  0  0.00  64.  1008.  2 NAD-SFC NoSubs
 8  3 13  73  1   -3.4  0.093 -9.000 -9.000 -999.   68.     21.5  0.1620  0.32  1.00  1.00  310.0  15.0  285.8  2.0  0  0.00  65.  1008.  2 NAD-SFC NoSubs
 8  3 13  73  2   -1.4  0.079 -9.000 -9.000 -999.   53.     31.0  0.1620  0.32  1.00  0.50  322.0  15.0  285.2  2.0  0  0.00  67.  1008.  2 NAD-SFC NoSubs
 8  3 13  73  3   -1.5  0.080 -9.000 -9.000 -999.   55.     31.4  0.1880  0.32  1.00  0.50  344.0  15.0  284.8  2.0  0  0.00  68.  1008.  2 NAD-SFC NoSubs
 8  3 13  73  4   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.1880  0.32  1.00  0.50  355.0  15.0  284.2  2.0  0  0.00  71.  1008.  2 NAD-SFC NoSubs
 8  3 13  73  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  283.8  2.0  0  0.00  74.  1008.  2 NAD-SFC NoSubs
 8  3 13  73  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  283.1  2.0  0  0.00  78.  1008.  2 NAD-SFC NoSubs
 8  3 13  73  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  0.59  0.00    0.0  15.0  282.6  2.0  0  0.00  81.  1008.  2 NAD-SFC NoSubs
 8  3 13  73  8   17.1 -9.000 -9.000 -9.000   92. -999. -99999.0  0.0879  0.32  0.27  0.00    0.0  15.0  284.1  2.0  0  0.00  75.  1009.  3 NAD-SFC NoSubs
 8  3 13  73  9   50.3 -9.000 -9.000 -9.000  295. -999. -99999.0  0.0879  0.32  0.18  0.00    0.0  15.0  285.9  2.0  0  0.00  66.  1009.  3 NAD-SFC NoSubs
 8  3 13  73 10   76.6 -9.000 -9.000 -9.000  412. -999. -99999.0  0.0879  0.32  0.16  0.00    0.0  15.0  287.2  2.0  0  0.00  59.  1009.  4 NAD-SFC NoSubs
 8  3 13  73 11   92.2  0.085  1.110  0.007  534.   59.     -1.0  0.0780  0.32  0.15  0.50  281.0  15.0  288.6  2.0  0  0.00  55.  1009.  5 NAD-SFC NoSubs
 8  3 13  73 12  101.9  0.131  1.221  0.008  642.  114.     -2.0  0.0780  0.32  0.14  1.00  288.0  15.0  289.8  2.0  0  0.00  51.  1008.  5 NAD-SFC NoSubs
 8  3 13  73 13  103.1  0.171  1.282  0.009  735.  170.     -4.4  0.0780  0.32  0.14  1.50  293.0  15.0  290.8  2.0  0  0.00  50.  1007.  5 NAD-SFC NoSubs
 8  3 13  73 14   99.0  0.247  1.309  0.009  813.  294.    -13.6  0.1620  0.32  0.15  2.10  312.0  15.0  291.5  2.0  0  0.00  50.  1007.  4 NAD-SFC NoSubs
 8  3 13  73 15   82.7  0.283  1.262  0.010  874.  361.    -24.6  0.1620  0.32  0.15  2.60  322.0  15.0  291.8  2.0  0  0.00  52.  1006.  4 NAD-SFC NoSubs
 8  3 13  73 16   58.2  0.325  1.140  0.010  913.  444.    -52.8  0.1880  0.32  0.17  3.10  330.0  15.0  291.8  2.0  0  0.00  56.  1006.  4 NAD-SFC NoSubs
 8  3 13  73 17   27.0  0.310  0.889  0.010  931.  414.    -98.5  0.1880  0.32  0.24  3.10  336.0  15.0  291.2  2.0  0  0.00  65.  1005.  4 NAD-SFC NoSubs
 8  3 13  73 18  -16.8  0.366 -9.000 -9.000 -999.  530.    260.6  0.1880  0.32  0.47  4.10  351.0  15.0  290.0  2.0  0  0.00  74.  1006.  4 NAD-SFC NoSubs
 8  3 13  73 19  -30.0  0.361 -9.000 -9.000 -999.  521.    141.0  0.1880  0.32  1.00  4.10  351.0  15.0  288.2  2.0  0  0.00  83.  1006.  7 NAD-SFC NoSubs
 8  3 13  73 20  -28.5  0.315 -9.000 -9.000 -999.  425.     98.3  0.1880  0.32  1.00  3.60  350.0  15.0  287.1  2.0  0  0.00  87.  1006.  6 NAD-SFC NoSubs
 8  3 13  73 21  -20.7  0.223 -9.000 -9.000 -999.  256.     47.8  0.1880  0.32  1.00  2.60  338.0  15.0  286.6  2.0  0  0.00  89.  1007.  4 NAD-SFC NoSubs
 8  3 13  73 22  -12.2  0.170 -9.000 -9.000 -999.  169.     36.3  0.1620  0.32  1.00  2.10  310.0  15.0  286.1  2.0  0  0.00  90.  1007.  5 NAD-SFC NoSubs
 8  3 13  73 23  -14.8  0.182 -9.000 -9.000 -999.  187.     36.8  0.0780  0.32  1.00  2.60  297.0  15.0  285.6  2.0  0  0.00  92.  1007.  5 NAD-SFC NoSubs
 8  3 13  73 24  -25.2  0.259 -9.000 -9.000 -999.  316.     61.9  0.1620  0.32  1.00  3.10  300.0  15.0  285.2  2.0  0  0.00  93.  1007.  5 NAD-SFC NoSubs
 8  3 14  74  1  -31.0  0.303 -9.000 -9.000 -999.  399.     80.2  0.1620  0.32  1.00  3.60  312.0  15.0  284.6  2.0  0  0.00  96.  1007.  4 NAD-SFC NoSubs
 8  3 14  74  2  -35.2  0.360 -9.000 -9.000 -999.  518.    119.0  0.1880  0.32  1.00  4.10  335.0  15.0  283.8  2.0  0  0.00  97.  1007.  5 NAD-SFC NoSubs
 8  3 14  74  3  -29.7  0.303 -9.000 -9.000 -999.  402.     83.9  0.1620  0.32  1.00  3.60  328.0  15.0  282.8  2.0  0  0.00  96.  1008.  5 NAD-SFC NoSubs
 8  3 14  74  4  -23.9  0.259 -9.000 -9.000 -999.  318.     65.6  0.1620  0.32  1.00  3.10  318.0  15.0  282.4  2.0  0  0.00  94.  1008.  6 NAD-SFC NoSubs
 8  3 14  74  5  -25.5  0.259 -9.000 -9.000 -999.  316.     61.1  0.1620  0.32  1.00  3.10  324.0  15.0  281.9  2.0  0  0.00  92.  1008.  5 NAD-SFC NoSubs
 8  3 14  74  6  -25.5  0.259 -9.000 -9.000 -999.  316.     61.1  0.1620  0.32  1.00  3.10  326.0  15.0  281.6  2.0  0  0.00  91.  1009.  5 NAD-SFC NoSubs
 8  3 14  74  7  -22.7  0.270 -9.000 -9.000 -999.  336.     77.8  0.1880  0.32  0.57  3.10  333.0  15.0  281.2  2.0  0  0.00  90.  1009.  5 NAD-SFC NoSubs
 8  3 14  74  8   18.2  0.476  0.444  0.005  172.  789.   -533.5  0.1880  0.32  0.27  5.10  336.0  15.0  282.1  2.0  0  0.00  86.  1009.  4 NAD-SFC NoSubs
 8  3 14  74  9   50.6  0.405  0.745  0.005  294.  624.   -118.4  0.1880  0.32  0.18  4.10  343.0  15.0  282.2  2.0  0  0.00  85.  1010.  3 NAD-SFC NoSubs
 8  3 14  74 10   77.2  0.373  0.954  0.005  406.  547.    -60.4  0.1880  0.32  0.15  3.60  344.0  15.0  282.4  2.0  0  0.00  84.  1010.  2 NAD-SFC NoSubs
 8  3 14  74 11   96.2  0.295  1.124  0.005  531.  388.    -24.1  0.1880  0.32  0.15  2.60  352.0  15.0  283.2  2.0  0  0.00  79.  1010.  2 NAD-SFC NoSubs
 8  3 14  74 12  106.7  0.204  1.241  0.005  645.  225.     -7.1  0.1880  0.32  0.14  1.50  346.0  15.0  285.4  2.0  0  0.00  61.  1009.  2 NAD-SFC NoSubs
 8  3 14  74 13  108.0  0.204  1.329  0.005  781.  221.     -7.1  0.1880  0.32  0.14  1.50  336.0  15.0  287.1  2.0  0  0.00  44.  1008.  3 NAD-SFC NoSubs
 8  3 14  74 14  100.2  0.296  1.356  0.005  894.  387.    -23.3  0.1880  0.32  0.15  2.60  342.0  15.0  288.0  2.0  0  0.00  36.  1007.  3 NAD-SFC NoSubs
 8  3 14  74 15   83.5  0.375  1.317  0.005  983.  550.    -56.5  0.1880  0.32  0.15  3.60  346.0  15.0  288.5  2.0  0  0.00  34.  1006.  3 NAD-SFC NoSubs
 8  3 14  74 16   58.5  0.408  1.205  0.005 1073.  626.   -104.2  0.1880  0.32  0.17  4.10  360.0  15.0  288.5  2.0  0  0.00  35.  1006.  3 NAD-SFC NoSubs
 8  3 14  74 17   26.7 -9.000 -9.000 -9.000 1110. -999. -99999.0  0.0879  0.32  0.24  0.00    0.0  15.0  288.0  2.0  0  0.00  46.  1006.  3 NAD-SFC NoSubs
 8  3 14  74 18   -3.3 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  0.47  0.00    0.0  15.0  287.0  2.0  0  0.00  53.  1006.  3 NAD-SFC NoSubs
 8  3 14  74 19  -33.2  0.314 -9.000 -9.000 -999.  422.     83.5  0.1880  0.32  1.00  3.60  354.0  15.0  286.1  2.0  0  0.00  58.  1006.  3 NAD-SFC NoSubs
 8  3 14  74 20  -32.1  0.314 -9.000 -9.000 -999.  422.     86.5  0.1880  0.32  1.00  3.60  338.0  15.0  285.1  2.0  0  0.00  65.  1006.  4 NAD-SFC NoSubs
 8  3 14  74 21  -29.5  0.303 -9.000 -9.000 -999.  400.     84.5  0.1620  0.32  1.00  3.60  316.0  15.0  284.4  2.0  0  0.00  71.  1007.  5 NAD-SFC NoSubs
 8  3 14  74 22  -23.1  0.305 -9.000 -9.000 -999.  403.    109.9  0.1620  0.32  1.00  3.60  306.0  15.0  284.4  2.0  0  0.00  73.  1007.  8 NAD-SFC NoSubs
 8  3 14  74 23  -29.4  0.348 -9.000 -9.000 -999.  492.    128.8  0.1620  0.32  1.00  4.10  304.0  15.0  283.8  2.0  0  0.00  78.  1008.  7 NAD-SFC NoSubs
 8  3 14  74 24  -25.1  0.296 -9.000 -9.000 -999.  388.     93.1  0.0780  0.32  1.00  4.10  298.0  15.0  282.9  2.0  0  0.00  81.  1008.  7 NAD-SFC NoSubs
 8  3 15  75  1  -22.2  0.396 -9.000 -9.000 -999.  597.    250.1  0.1620  0.32  1.00  4.60  301.0  15.0  282.2  2.0  0  0.00  80.  1008.  10 NAD-SFC NoSubs
 8  3 15  75  2  -23.3  0.304 -9.000 -9.000 -999.  408.    108.9  0.1620  0.32  1.00  3.60  302.0  15.0  282.0  2.0  0  0.00  79.  1008.  8 NAD-SFC NoSubs
 8  3 15  75  3  -14.8  0.262 -9.000 -9.000 -999.  323.    109.7  0.1620  0.32  1.00  3.10  301.0  15.0  281.8  2.0  0  0.00  79.  1008.  10 NAD-SFC NoSubs
 8  3 15  75  4  -17.0  0.222 -9.000 -9.000 -999.  251.     57.6  0.0780  0.32  1.00  3.10  291.0  15.0  281.4  2.0  0  0.00  79.  1008.  8 NAD-SFC NoSubs
 8  3 15  75  5  -18.8  0.221 -9.000 -9.000 -999.  249.     51.5  0.0780  0.32  1.00  3.10  288.0  15.0  281.1  2.0  0  0.00  79.  1008.  7 NAD-SFC NoSubs
 8  3 15  75  6  -13.9  0.183 -9.000 -9.000 -999.  188.     39.7  0.0780  0.32  1.00  2.60  281.0  15.0  280.9  2.0  0  0.00  79.  1008.  7 NAD-SFC NoSubs
 8  3 15  75  7  -18.0  0.221 -9.000 -9.000 -999.  250.     54.0  0.0780  0.32  0.56  3.10  277.0  15.0  280.8  2.0  0  0.00  79.  1008.  5 NAD-SFC NoSubs
 8  3 15  75  8   19.0  0.292  0.540  0.005  299.  380.   -118.7  0.0780  0.32  0.27  3.60  290.0  15.0  281.6  2.0  0  0.00  70.  1008.  5 NAD-SFC NoSubs
 8  3 15  75  9   51.4  0.238  0.940  0.005  581.  280.    -23.6  0.0780  0.32  0.18  2.60  291.0  15.0  282.8  2.0  0  0.00  62.  1007.  4 NAD-SFC NoSubs
 8  3 15  75 10   75.3  0.210  1.198  0.005  820.  231.    -11.0  0.0780  0.32  0.15  2.10  282.0  15.0  283.8  2.0  0  0.00  54.  1007.  5 NAD-SFC NoSubs
 8  3 15  75 11   96.2  0.215  1.393  0.005 1008.  239.     -9.2  0.0780  0.32  0.15  2.10  273.0  15.0  284.9  2.0  0  0.00  46.  1006.  4 NAD-SFC NoSubs
 8  3 15  75 12  107.5  0.172  1.500  0.005 1125.  172.     -4.3  0.0780  0.32  0.14  1.50  280.0  15.0  285.8  2.0  0  0.00  40.  1004.  3 NAD-SFC NoSubs
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8	3	15	75	13	108.6	0.217	1.552	0.005	1233.	243.	-8.5	0.0780	0.32	0.14	2.10	286.0	15.0	286.6	2.0	0	0.00	36.	1003.	3	NAD-SFC	NoSubs
8	3	15	75	14	100.7	0.322	1.550	0.005	1324.	439.	-29.7	0.0780	0.32	0.15	3.60	287.0	15.0	286.6	2.0	0	0.00	38.	1002.	3	NAD-SFC	NoSubs
8	3	15	75	15	83.7	0.445	1.484	0.005	1396.	711.	-93.8	0.1620	0.32	0.15	4.60	304.0	15.0	285.5	2.0	0	0.51	45.	1001.	3	NAD-SFC	NoSubs
8	3	15	75	16	53.3	0.610	1.290	0.005	1439.	1141.	-379.6	0.1620	0.32	0.17	6.70	326.0	15.0	284.8	2.0	0	1.02	54.	1001.	6	NAD-SFC	NoSubs
8	3	15	75	17	26.5	0.465	1.028	0.005	1460.	782.	-338.9	0.1620	0.32	0.24	5.10	318.0	15.0	284.1	2.0	0	1.02	62.	1001.	5	NAD-SFC	NoSubs
8	3	15	75	18	-10.7	0.264	-9.000	-9.000	-999.	366.	153.8	0.1620	0.32	0.46	3.10	311.0	15.0	283.2	2.0	0	0.76	70.	1002.	5	NAD-SFC	NoSubs
8	3	15	75	19	-21.2	0.220	-9.000	-9.000	-999.	249.	44.8	0.0780	0.32	1.00	3.10	286.0	15.0	282.8	2.0	0	0.76	73.	1002.	5	NAD-SFC	NoSubs
8	3	15	75	20	-21.8	0.220	-9.000	-9.000	-999.	247.	43.5	0.0780	0.32	1.00	3.10	276.0	15.0	282.5	2.0	0	0.25	73.	1002.	4	NAD-SFC	NoSubs
8	3	15	75	21	-17.0	0.185	-9.000	-9.000	-999.	191.	33.0	0.0310	0.32	1.00	3.10	268.0	15.0	282.1	2.0	0	0.00	73.	1002.	3	NAD-SFC	NoSubs
8	3	15	75	22	-22.2	0.219	-9.000	-9.000	-999.	246.	42.5	0.0780	0.32	1.00	3.10	291.0	15.0	281.4	2.0	0	0.00	73.	1003.	3	NAD-SFC	NoSubs
8	3	15	75	23	-15.4	0.181	-9.000	-9.000	-999.	186.	34.6	0.0780	0.32	1.00	2.60	286.0	15.0	281.2	2.0	0	0.00	74.	1003.	3	NAD-SFC	NoSubs
8	3	15	75	24	-5.1	0.104	-9.000	-9.000	-999.	83.	19.9	0.0780	0.32	1.00	1.50	296.0	15.0	281.5	2.0	0	0.00	74.	1002.	3	NAD-SFC	NoSubs
8	3	16	76	1	-28.2	0.257	-9.000	-9.000	-999.	312.	53.6	0.0780	0.32	1.00	3.60	287.0	15.0	281.2	2.0	0	0.00	74.	1002.	2	NAD-SFC	NoSubs
8	3	16	76	2	-33.3	0.302	-9.000	-9.000	-999.	398.	74.0	0.1620	0.32	1.00	3.60	300.0	15.0	280.8	2.0	0	0.00	75.	1002.	2	NAD-SFC	NoSubs
8	3	16	76	3	-28.5	0.258	-9.000	-9.000	-999.	315.	53.8	0.1620	0.32	1.00	3.10	317.0	15.0	279.8	2.0	0	0.00	74.	1003.	2	NAD-SFC	NoSubs
8	3	16	76	4	-6.6	0.121	-9.000	-9.000	-999.	114.	23.8	0.1620	0.32	1.00	1.50	324.0	15.0	279.6	2.0	0	0.00	72.	1003.	2	NAD-SFC	NoSubs
8	3	16	76	5	-2.4	0.079	-9.000	-9.000	-999.	53.	17.9	0.0380	0.32	1.00	1.00	172.0	15.0	279.5	2.0	0	0.00	71.	1003.	2	NAD-SFC	NoSubs
8	3	16	76	6	-4.2	0.092	-9.000	-9.000	-999.	67.	16.6	0.0330	0.32	1.00	1.50	207.0	15.0	279.4	2.0	0	0.00	69.	1004.	2	NAD-SFC	NoSubs
8	3	16	76	7	-11.4	0.156	-9.000	-9.000	-999.	148.	29.9	0.0340	0.32	0.55	2.60	226.0	15.0	279.1	2.0	0	0.00	68.	1005.	2	NAD-SFC	NoSubs
8	3	16	76	8	18.6	0.574	0.363	0.005	92.	1044.	-915.1	0.1880	0.32	0.26	6.20	349.0	15.0	281.2	2.0	0	0.00	54.	1006.	2	NAD-SFC	NoSubs
8	3	16	76	9	52.0	0.673	0.770	0.005	314.	1322.	-525.5	0.1880	0.32	0.18	7.20	349.0	15.0	283.2	2.0	0	0.00	44.	1006.	2	NAD-SFC	NoSubs
8	3	16	76	10	79.1	0.593	1.014	0.005	473.	1104.	-236.4	0.1880	0.32	0.15	6.20	354.0	15.0	284.6	2.0	0	0.00	39.	1007.	2	NAD-SFC	NoSubs
8	3	16	76	11	98.3	0.555	1.176	0.005	595.	995.	-156.2	0.1880	0.32	0.15	5.70	344.0	15.0	285.9	2.0	0	0.00	35.	1007.	3	NAD-SFC	NoSubs
8	3	16	76	12	108.4	0.557	1.292	0.005	714.	999.	-143.4	0.1880	0.32	0.14	5.70	336.0	15.0	287.0	2.0	0	0.00	32.	1006.	3	NAD-SFC	NoSubs
8	3	16	76	13	109.5	0.582	1.360	0.005	823.	1064.	-161.2	0.1620	0.32	0.14	6.20	328.0	15.0	287.8	2.0	0	0.00	30.	1005.	3	NAD-SFC	NoSubs
8	3	16	76	14	101.5	0.556	1.372	0.005	914.	996.	-151.6	0.1880	0.32	0.15	5.70	335.0	15.0	288.4	2.0	0	0.00	28.	1005.	2	NAD-SFC	NoSubs
8	3	16	76	15	84.6	0.535	1.325	0.005	986.	940.	-161.9	0.1620	0.32	0.15	5.70	321.0	15.0	288.9	2.0	0	0.00	27.	1005.	2	NAD-SFC	NoSubs
8	3	16	76	16	59.4	0.528	1.202	0.005	1047.	920.	-221.5	0.1620	0.32	0.17	5.70	322.0	15.0	289.1	2.0	0	0.00	27.	1004.	2	NAD-SFC	NoSubs
8	3	16	76	17	27.1	0.341	0.932	0.005	1071.	509.	-131.5	0.1620	0.32	0.24	3.60	301.0	15.0	288.4	2.0	0	0.00	40.	1004.	2	NAD-SFC	NoSubs
8	3	16	76	18	-13.8	0.261	-9.000	-9.000	-999.	325.	115.7	0.0780	0.32	0.45	3.60	278.0	15.0	287.2	2.0	0	0.00	42.	1005.	2	NAD-SFC	NoSubs
8	3	16	76	19	-12.2	0.155	-9.000	-9.000	-999.	152.	27.3	0.0340	0.32	1.00	2.60	238.0	15.0	285.9	2.0	0	0.00	44.	1005.	2	NAD-SFC	NoSubs
8	3	16	76	20	-23.9	0.219	-9.000	-9.000	-999.	246.	39.4	0.0330	0.32	1.00	3.60	190.0	15.0	284.4	2.0	0	0.00	48.	1006.	2	NAD-SFC	NoSubs
8	3	16	76	21	-18.3	0.191	-9.000	-9.000	-999.	201.	34.4	0.0380	0.32	1.00	3.10	177.0	15.0	283.1	2.0	0	0.00	53.	1007.	2	NAD-SFC	NoSubs
8	3	16	76	22	-2.4	0.077	-9.000	-9.000	-999.	61.	17.5	0.0330	0.32	1.00	1.00	201.0	15.0	282.1	2.0	0	0.00	57.	1008.	2	NAD-SFC	NoSubs
8	3	16	76	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	281.2	2.0	0	0.00	61.	1009.	2	NAD-SFC	NoSubs
8	3	16	76	24	-2.3	0.077	-9.000	-9.000	-999.	51.	17.4	0.0310	0.32	1.00	1.00	268.0	15.0	280.5	2.0	0	0.00	64.	1009.	2	NAD-SFC	NoSubs
8	3	17	77	1	-7.8	0.122	-9.000	-9.000	-999.	102.	20.8	0.0310	0.32	1.00	2.10	267.0	15.0	280.0	2.0	0	0.00	66.	1009.	2	NAD-SFC	NoSubs
8	3	17	77	2	-22.7	0.219	-9.000	-9.000	-999.	246.	41.7	0.0780	0.32	1.00	3.10	282.0	15.0	279.4	2.0	0	0.00	67.	1010.	2	NAD-SFC	NoSubs
8	3	17	77	3	-28.7	0.257	-9.000	-9.000	-999.	312.	53.1	0.0780	0.32	1.00	3.60	285.0	15.0	278.8	2.0	0	0.00	67.	1010.	2	NAD-SFC	NoSubs
8	3	17	77	4	-28.8	0.257	-9.000	-9.000	-999.	312.	53.0	0.0780	0.32	1.00	3.60	281.0	15.0	278.2	2.0	0	0.00	67.	1010.	2	NAD-SFC	NoSubs
8	3	17	77	5	-28.8	0.257	-9.000	-9.000	-999.	312.	52.9	0.0780	0.32	1.00	3.60	288.0	15.0	277.6	2.0	0	0.00	67.	1010.	2	NAD-SFC	NoSubs
8	3	17	77	6	-22.8	0.219	-9.000	-9.000	-999.	246.	41.5	0.0780	0.32	1.00	3.10	294.0	15.0	277.2	2.0	0	0.00	67.	1011.	2	NAD-SFC	NoSubs
8	3	17	77	7	-9.2	0.145	-9.000	-9.000	-999.	134.	29.7	0.0780	0.32	0.54	2.10	283.0	15.0	277.1	2.0	0	0.00	67.	1012.	2	NAD-SFC	NoSubs
8	3	17	77	8	19.3	0.262	0.339	0.008	73.	323.	-84.6	0.1880	0.32	0.26	2.60	344.0	15.0	279.5	2.0	0	0.00	55.	1012.	2	NAD-SFC	NoSubs
8	3	17	77	9	52.7	0.144	0.644	0.012	183.	139.	-5.1	0.1880	0.32	0.18	1.00	353.0	15.0	281.8	2.0	0	0.00	47.	1012.	2	NAD-SFC	NoSubs
8	3	17	77	10	79.8	0.096	0.848	0.010	276.	72.	-1.0	0.1620	0.32	0.15	0.50	329.0	15.0	283.6	2.0	0	0.00	42.	1012.	2	NAD-SFC	NoSubs
8	3	17	77	11	98.9	0.099	0.993	0.008	357.	75.	-1.0	0.1620	0.32	0.15	0.50	323.0	15.0	285.4	2.0	0	0.00	37.	1012.	2	NAD-SFC	NoSubs
8	3	17	77	12	109.1	0.152	1.111	0.006	454.	143.	-2.9	0.1620	0.32	0.14	1.00	320.0	15.0	286.9	2.0	0	0.00	34.	1011.	2	NAD-SFC	NoSubs
8	3	17	77	13	110.2	0.198	1.189	0.005	549.	212.	-6.4	0.1620	0.32	0.14	1.50	323.0	15.0	288.1	2.0	0	0.00	30.	1010.	2	NAD-SFC	NoSubs
8	3	17	77	14	102.3	0.203	1.211	0.005	625.	219.	-7.3	0.1880	0.32	0.15	1.50	331.0	15.0	288.9	2.0	0	0.00	29.	1009.	2	NAD-SFC	NoSubs
8	3	17	77	15	85.3	0.199	1.196	0.005	721.	213.	-8.3	0.1880	0.32	0.15	1.50	345.0	15.0	289.4	2.0	0	0.00	29.	1009.	2	NAD-SFC	NoSubs
8	3	17	77	16	60.0	0.242	1.108	0.005	815.	286.	-21.3	0.1880	0.32	0.17	2.10	354.0	15.0	289.6	2.0	0	0.00	30.	1009.	2	NAD-SFC	NoSubs
8	3	17	77	17	27.8	0.177	0.871	0.005	854.	180.	-17.9	0.1880	0.32	0.23	1.50	350.0	15.0	289.5	2.0	0	0.00	34.	1009.	2	NAD-SFC	NoSubs
8	3	17	77	18	13.4	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	0.45	0.00	0.0	15.0	289.0	2.0	0	0.00	37.	1009.	2	NAD-SFC	NoSubs
8	3	17	77	19	-1.0	0.068	-9.000	-9.000	-999.	43.	27.2	0.0380	0.32	1.00	0.50	173.0	15.0	287.6	2.0	0	0.00	43.	1010.	2	NAD-SFC	NoSubs
8	3	17	77	20	-1.0	0.068	-9.000	-9.000	-999.	43.	27.2	0.0380	0.32	1.00	0.50	167.0	15.0	286.1	2.0	0	0.00	49.	1010.	2	NAD-SFC	NoSubs
8	3	17	77	21	-8.1	0.126	-9.000	-9.000	-999.	107.	22.0	0.0380	0.32	1.00	2.10	169.0	15.0	284.9	2.0	0	0.00	55.	1011.	2	NAD-SFC	NoSubs
8	3	17	77	22	-18.3	0.191	-9.000	-9.000	-999.	201.	34.4	0.0380	0.32	1.00	3.10	162.0	15.0	284.0	2.0	0	0.00	56.	1011.	2	NAD-SFC	NoSubs
8	3	17	77	23	-18.3	0.191	-9.000	-9.000	-999.	201.	34.4	0.0380	0.32	1.00	3.10	164.0	15.0	283.2	2.0	0	0.00	55.	1012.	2	NAD-SFC	NoSubs
8	3	17	77	24	-19.3	0.198	-9.000	-9.000	-999.	211.	36.1	0.0460	0.32	1.00	3.10	148.0	15.0	282.6	2.0	0	0.00	56.	1011.	2	NAD-SFC	NoSubs
8	3	18	78	1	-12.7	0.158	-9.000	-9.000	-999.	151.	27.9	0.0380	0.32	1.00	2.60	155.0	15.0	281.9	2.0	0	0.00	57.	1011.	2	NAD-SFC	NoSubs
8	3	18	78	2	-8.6	0.130	-9.000	-9.000	-999.	113.	23.0	0.0460	0.32	1.00	2.10	142.0	15.0	281.4	2.0	0	0.00	58.	1011.	2	NAD-SFC	NoSubs
8	3	18	78	3	-4.6	0.096	-9.000	-9.000	-999.	72.	17.6	0.0460	0.32	1.00	1.50	137.0	15.0	281.0	2.0	0	0.00	60.	1011.	2	NAD-SFC	NoSubs
8	3	18	78	4	-1.0	0.068	-9.000	-9.000	-999.	42.	27.1	0.0330	0.32	1.00	0.50	183.0	15.0	280.6	2.0	0	0.00	62.	1011.	2	NAD-SFC	NoSubs
8	3	18	78	5	-1.2	0.074	-9.000	-9.000	-999.	48.	29.3	0.0780	0.32	1.00	0.50	270.0	15.0	280.2	2.0	0	0.00	66.	1010.	2	NAD-SFC	NoSubs
8	3	18	78	6	-2.3	0.077	-9.000	-9.000	-999.	51.	17.4	0.0310	0.32	1.00	1.00	268.0	15.0	279.9	2.0	0	0.00	69.	1011.	2	NAD-SFC	NoSubs
8	3	18	78	7	-1.9	0.071	-9.000	-9.000	-999.	45.	16.6	0.0310	0.32	0.52	1.00	252.0	15.0	279.8	2.0	0	0.00	72.	1011.	2	NAD-SFC	NoSubs
8	3	18	78	8	20.4	0.109	0.331	0.010	64.	87.	-5.8	0.0780	0.32	0.26	1.00	295.0	15.0	282.1	2.0	0	0.00	68.	1011.	2	NAD-SFC	NoSubs
8	3	18	78	9	53.9	-9.000	-9.000	-9.000	171.	-999.	-99999.0	0.0879	0.32	0.18	0.00	0.0	15.0	284.2	2.0	0	0.00	64.	1012.	2	NAD-SFC	NoSubs
8	3	18	78	10	81.1	-9.000	-9.000	-9.000	305.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	286.8	2.0	0	0.00	54.	1011.	2	NAD-SFC	NoSubs
8	3	18	78	11	100.2	-9.000	-9.000	-9.000	434.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	288.4	2.0	0	0.00	50.	1011.	2	NAD-SFC	NoSubs
8	3	18	78	12	110.4	0.100	1.205	0.009	571.	76.	-1.0	0.1620	0.32	0.14	0.50	309.0	15.0	290.1	2.0	0	0.00	45.	1010.	2	NAD-SFC	NoSubs
8	3	18	78	13	111.6	0.199	1.279	0.010	676.	213.	-6.3	0.1620	0.32	0.14	1.50	314.0	15.0	291.5	2.0	0	0.00	41.	1009.	2	NAD-SFC	NoSubs
8	3	18	78	14	103.6	0.255	1.287	0.010	740.	310.	-14.4	0.1880	0.32	0.14	2.10	330.0	15.0	292.4	2.0	0	0.00	40.	1008.	2	NAD-SFC	NoSubs
8	3	18	78	15	86.6	0.293	1.238	0.010	788.	380.	-26.0	0.1880	0.32	0.15	2.60	338.0	15.0	292.6	2.0	0	0.00	41.	1008.	2	NAD-SFC	NoSubs
8	3	18	78	16	61.2	0.285	1.119	0.010	821.	364.	-33.8	0.1880	0.32	0.17	2.60	343.0	15.0	292.5	2.0	0	0.00	47.	1007.	2	NAD-SFC	NoSubs
8	3	18	78	17	28.9	0.228	0.876	0.010	836.	262.	-36.7	0.1880	0.32	0.23	2.10	342.0	15.0	292.1	2.0	0	0.00	51.	1007.	2	NAD-SFC	NoSubs

8	3	18	78	18	-7.6	0.182	-9.000	-9.000	-999.	187.	72.1	0.1880	0.32	0.44	2.10	331.0	15.0	291.4	2.0	0	0.00	54.	1007.	2	NAD-SFC	NoSubs
8	3	18	78	19	-12.8	0.170	-9.000	-9.000	-999.	168.	34.3	0.1620	0.32	1.00	2.10	324.0	15.0	290.5	2.0	0	0.00	57.	1008.	2	NAD-SFC	NoSubs
8	3	18	78	20	-6.9	0.125	-9.000	-9.000	-999.	106.	25.3	0.1880	0.32	1.00	1.50	333.0	15.0	289.8	2.0	0	0.00	60.	1008.	2	NAD-SFC	NoSubs
8	3	18	78	21	-6.9	0.125	-9.000	-9.000	-999.	106.	25.3	0.1880	0.32	1.00	1.50	338.0	15.0	289.2	2.0	0	0.00	63.	1008.	2	NAD-SFC	NoSubs
8	3	18	78	22	-21.3	0.222	-9.000	-9.000	-999.	251.	46.3	0.1880	0.32	1.00	2.60	331.0	15.0	288.6	2.0	0	0.00	65.	1008.	2	NAD-SFC	NoSubs
8	3	18	78	23	-33.9	0.314	-9.000	-9.000	-999.	421.	81.8	0.1880	0.32	1.00	3.60	341.0	15.0	287.8	2.0	0	0.00	68.	1009.	2	NAD-SFC	NoSubs
8	3	18	78	24	-34.0	0.314	-9.000	-9.000	-999.	421.	81.5	0.1880	0.32	1.00	3.60	338.0	15.0	286.8	2.0	0	0.00	74.	1008.	2	NAD-SFC	NoSubs
8	3	19	79	1	-34.1	0.314	-9.000	-9.000	-999.	421.	81.2	0.1880	0.32	1.00	3.60	354.0	15.0	285.8	2.0	0	0.00	83.	1008.	2	NAD-SFC	NoSubs
8	3	19	79	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	285.2	2.0	0	0.00	89.	1008.	2	NAD-SFC	NoSubs
8	3	19	79	3	-29.3	0.269	-9.000	-9.000	-999.	334.	59.4	0.1900	0.32	1.00	3.10	12.0	15.0	284.8	2.0	0	0.00	93.	1008.	2	NAD-SFC	NoSubs
8	3	19	79	4	-13.8	0.177	-9.000	-9.000	-999.	181.	35.9	0.1900	0.32	1.00	2.10	11.0	15.0	284.4	2.0	0	0.00	95.	1008.	2	NAD-SFC	NoSubs
8	3	19	79	5	-6.9	0.125	-9.000	-9.000	-999.	106.	25.4	0.1900	0.32	1.00	1.50	3.0	15.0	284.2	2.0	0	0.00	96.	1009.	3	NAD-SFC	NoSubs
8	3	19	79	6	-3.5	0.095	-9.000	-9.000	-999.	70.	21.9	0.1880	0.32	1.00	1.00	357.0	15.0	283.9	2.0	0	0.00	97.	1009.	3	NAD-SFC	NoSubs
8	3	19	79	7	-1.0	0.066	-9.000	-9.000	-999.	41.	27.0	0.1280	0.32	0.51	0.50	45.0	15.0	283.8	2.0	0	0.00	98.	1010.	3	NAD-SFC	NoSubs
8	3	19	79	8	22.4	0.121	0.459	0.006	155.	101.	-7.1	0.1280	0.32	0.25	1.00	32.0	15.0	283.9	2.0	0	0.00	97.	1010.	3	NAD-SFC	NoSubs
8	3	19	79	9	55.3	0.145	0.774	0.006	302.	133.	-5.0	0.1900	0.32	0.18	1.00	6.0	15.0	284.2	2.0	0	0.00	93.	1010.	3	NAD-SFC	NoSubs
8	3	19	79	10	81.9	0.152	1.005	0.006	447.	142.	-3.8	0.1880	0.32	0.15	1.00	354.0	15.0	284.8	2.0	0	0.00	90.	1010.	3	NAD-SFC	NoSubs
8	3	19	79	11	100.5	0.099	1.193	0.008	609.	75.	-1.0	0.1620	0.32	0.15	0.50	318.0	15.0	285.4	2.0	0	0.00	87.	1010.	3	NAD-SFC	NoSubs
8	3	19	79	12	110.4	0.132	1.300	0.009	717.	116.	-1.9	0.0780	0.32	0.14	1.00	296.0	15.0	286.0	2.0	0	0.00	83.	1009.	3	NAD-SFC	NoSubs
8	3	19	79	13	111.4	0.199	1.353	0.010	800.	213.	-6.3	0.1620	0.32	0.14	1.50	317.0	15.0	287.2	2.0	0	0.00	77.	1008.	3	NAD-SFC	NoSubs
8	3	19	79	14	103.5	0.255	1.358	0.010	870.	310.	-14.4	0.1880	0.32	0.14	2.10	344.0	15.0	288.6	2.0	0	0.00	71.	1007.	3	NAD-SFC	NoSubs
8	3	19	79	15	86.8	0.251	1.307	0.010	925.	302.	-16.4	0.1880	0.32	0.15	2.10	349.0	15.0	289.4	2.0	0	0.00	68.	1007.	3	NAD-SFC	NoSubs
8	3	19	79	16	61.7	0.326	1.182	0.010	962.	447.	-50.5	0.1880	0.32	0.17	3.10	356.0	15.0	289.6	2.0	0	0.00	67.	1006.	3	NAD-SFC	NoSubs
8	3	19	79	17	29.7	0.270	0.932	0.010	976.	338.	-59.5	0.1900	0.32	0.23	2.60	8.0	15.0	289.5	2.0	0	0.00	71.	1006.	3	NAD-SFC	NoSubs
8	3	19	79	18	-7.4	0.277	-9.000	-9.000	-999.	350.	259.4	0.1900	0.32	0.44	3.10	19.0	15.0	288.9	2.0	0	0.00	74.	1006.	4	NAD-SFC	NoSubs
8	3	19	79	19	-13.0	0.178	-9.000	-9.000	-999.	184.	38.6	0.1900	0.32	1.00	2.10	26.0	15.0	288.1	2.0	0	0.00	77.	1007.	5	NAD-SFC	NoSubs
8	3	19	79	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	287.5	2.0	0	0.00	80.	1007.	10	NAD-SFC	NoSubs
8	3	19	79	21	-10.0	0.181	-9.000	-9.000	-999.	185.	53.2	0.1880	0.32	1.00	2.10	331.0	15.0	286.8	2.0	0	0.00	84.	1007.	10	NAD-SFC	NoSubs
8	3	19	79	22	-12.6	0.227	-9.000	-9.000	-999.	259.	83.2	0.1880	0.32	1.00	2.60	348.0	15.0	286.1	2.0	0	0.00	87.	1008.	10	NAD-SFC	NoSubs
8	3	19	79	23	-12.6	0.227	-9.000	-9.000	-999.	259.	83.1	0.1880	0.32	1.00	2.60	356.0	15.0	285.8	2.0	0	0.00	88.	1008.	10	NAD-SFC	NoSubs
8	3	19	79	24	-10.1	0.181	-9.000	-9.000	-999.	186.	53.2	0.1900	0.32	1.00	2.10	3.0	15.0	285.4	2.0	0	0.00	88.	1008.	10	NAD-SFC	NoSubs
8	3	20	80	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	285.1	2.0	0	0.00	87.	1008.	5	NAD-SFC	NoSubs
8	3	20	80	2	-20.8	0.222	-9.000	-9.000	-999.	252.	47.6	0.1880	0.32	1.00	2.60	358.0	15.0	284.8	2.0	0	0.00	87.	1008.	4	NAD-SFC	NoSubs
8	3	20	80	3	-28.6	0.268	-9.000	-9.000	-999.	333.	60.6	0.1880	0.32	1.00	3.10	347.0	15.0	284.2	2.0	0	0.00	88.	1009.	3	NAD-SFC	NoSubs
8	3	20	80	4	-28.7	0.268	-9.000	-9.000	-999.	333.	60.5	0.1880	0.32	1.00	3.10	349.0	15.0	283.8	2.0	0	0.00	89.	1009.	3	NAD-SFC	NoSubs
8	3	20	80	5	-28.7	0.268	-9.000	-9.000	-999.	333.	60.3	0.1880	0.32	1.00	3.10	347.0	15.0	283.2	2.0	0	0.00	90.	1009.	3	NAD-SFC	NoSubs
8	3	20	80	6	-28.8	0.268	-9.000	-9.000	-999.	333.	60.2	0.1880	0.32	1.00	3.10	346.0	15.0	282.8	2.0	0	0.00	91.	1010.	3	NAD-SFC	NoSubs
8	3	20	80	7	-20.0	0.271	-9.000	-9.000	-999.	338.	89.4	0.1880	0.32	0.50	3.10	339.0	15.0	282.2	2.0	0	0.00	92.	1011.	3	NAD-SFC	NoSubs
8	3	20	80	8	23.0	0.265	0.568	0.005	287.	328.	-73.0	0.1880	0.32	0.25	2.60	336.0	15.0	282.0	2.0	0	0.00	93.	1011.	3	NAD-SFC	NoSubs
8	3	20	80	9	56.0	0.282	0.861	0.005	412.	360.	-36.3	0.1880	0.32	0.17	2.60	330.0	15.0	282.5	2.0	0	0.00	90.	1012.	3	NAD-SFC	NoSubs
8	3	20	80	10	82.6	0.242	1.050	0.005	506.	287.	-15.5	0.1620	0.32	0.15	2.10	324.0	15.0	283.5	2.0	0	0.00	84.	1012.	3	NAD-SFC	NoSubs
8	3	20	80	11	101.3	0.247	1.191	0.005	602.	295.	-13.5	0.1620	0.32	0.15	2.10	306.0	15.0	285.2	2.0	0	0.00	75.	1012.	3	NAD-SFC	NoSubs
8	3	20	80	12	111.3	0.199	1.342	0.007	784.	213.	-6.3	0.1620	0.32	0.14	1.50	316.0	15.0	286.9	2.0	0	0.00	68.	1011.	3	NAD-SFC	NoSubs
8	3	20	80	13	112.3	0.257	1.452	0.010	984.	313.	-13.7	0.1880	0.32	0.14	2.10	334.0	15.0	288.2	2.0	0	0.00	63.	1011.	2	NAD-SFC	NoSubs
8	3	20	80	14	104.2	0.289	1.436	0.010	1025.	372.	-20.8	0.1620	0.32	0.14	2.60	329.0	15.0	289.2	2.0	0	0.00	58.	1010.	2	NAD-SFC	NoSubs
8	3	20	80	15	87.2	0.376	1.368	0.010	1059.	552.	-54.7	0.1880	0.32	0.15	3.60	336.0	15.0	289.9	2.0	0	0.00	56.	1010.	2	NAD-SFC	NoSubs
8	3	20	80	16	62.0	0.243	1.230	0.010	1082.	298.	-20.8	0.1880	0.32	0.17	2.10	346.0	15.0	290.5	2.0	0	0.00	52.	1010.	2	NAD-SFC	NoSubs
8	3	20	80	17	29.7	0.270	0.966	0.010	1093.	336.	-59.3	0.1880	0.32	0.23	2.60	338.0	15.0	290.8	2.0	0	0.00	53.	1010.	2	NAD-SFC	NoSubs
8	3	20	80	18	-10.1	0.274	-9.000	-9.000	-999.	345.	185.4	0.1880	0.32	0.43	3.10	332.0	15.0	290.1	2.0	0	0.00	57.	1011.	2	NAD-SFC	NoSubs
8	3	20	80	19	-37.5	0.346	-9.000	-9.000	-999.	489.	99.8	0.1620	0.32	1.00	4.10	326.0	15.0	288.2	2.0	0	0.00	64.	1011.	2	NAD-SFC	NoSubs
8	3	20	80	20	-37.7	0.346	-9.000	-9.000	-999.	489.	99.3	0.1620	0.32	1.00	4.10	329.0	15.0	286.8	2.0	0	0.00	69.	1012.	2	NAD-SFC	NoSubs
8	3	20	80	21	-29.3	0.268	-9.000	-9.000	-999.	336.	59.3	0.1880	0.32	1.00	3.10	335.0	15.0	285.9	2.0	0	0.00	71.	1013.	2	NAD-SFC	NoSubs
8	3	20	80	22	-6.6	0.121	-9.000	-9.000	-999.	118.	24.0	0.1620	0.32	1.00	1.50	322.0	15.0	285.2	2.0	0	0.00	71.	1013.	2	NAD-SFC	NoSubs
8	3	20	80	23	-3.4	0.093	-9.000	-9.000	-999.	68.	21.5	0.1620	0.32	1.00	1.00	321.0	15.0	284.6	2.0	0	0.00	72.	1014.	2	NAD-SFC	NoSubs
8	3	20	80	24	-3.6	0.095	-9.000	-9.000	-999.	71.	22.0	0.1880	0.32	1.00	1.00	332.0	15.0	283.9	2.0	0	0.00	73.	1014.	2	NAD-SFC	NoSubs
8	3	21	81	1	-1.5	0.081	-9.000	-9.000	-999.	55.	31.4	0.1880	0.32	1.00	0.50	332.0	15.0	283.2	2.0	0	0.00	75.	1015.	2	NAD-SFC	NoSubs
8	3	21	81	2	-1.2	0.073	-9.000	-9.000	-999.	48.	29.2	0.0780	0.32	1.00	0.50	295.0	15.0	282.5	2.0	0	0.00	77.	1015.	2	NAD-SFC	NoSubs
8	3	21	81	3	-1.2	0.073	-9.000	-9.000	-999.	48.	29.2	0.0780	0.32	1.00	0.50	283.0	15.0	281.9	2.0	0	0.00	80.	1015.	2	NAD-SFC	NoSubs
8	3	21	81	4	-2.8	0.085	-9.000	-9.000	-999.	59.	19.5	0.0780	0.32	1.00	1.00	295.0	15.0	281.2	2.0	0	0.00	82.	1015.	2	NAD-SFC	NoSubs
8	3	21	81	5	-2.8	0.085	-9.000	-9.000	-999.	59.	19.5	0.0780	0.32	1.00	1.00	289.0	15.0	280.8	2.0	0	0.00	84.	1015.	2	NAD-SFC	NoSubs
8	3	21	81	6	-2.9	0.085	-9.000	-9.000	-999.	59.	19.5	0.0780	0.32	1.00	1.00	283.0	15.0	280.2	2.0	0	0.00	86.	1016.	2	NAD-SFC	NoSubs
8	3	21	81	7	-1.7	0.067	-9.000	-9.000	-999.	42.	16.3	0.0310	0.32	0.49	1.00	266.0	15.0	280.1	2.0	0	0.00	87.	1016.	2	NAD-SFC	NoSubs
8	3	21	81	8	23.1	0.081	0.498	0.009	194.	56.	-2.1	0.1620	0.32	0.25	0.50	316.0	15.0	281.6	2.0	0	0.00	80.	1016.	2	NAD-SFC	NoSubs
8	3	21	81	9	56.4	-9.000	-9.000	-9.000	277.	-999.	-99999.0	0.0879	0.32	0.17	0.00	0.0	15.0	283.2	2.0	0	0.00	70.	1015.	2	NAD-SFC	NoSubs
8	3	21	81	10	83.3	-9.000	-9.000	-9.000	363.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	284.9	2.0	0	0.00	64.	1015.	2	NAD-SFC	NoSubs
8	3	21	81	11	102.2	-9.000	-9.000	-9.000	487.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	287.0	2.0	0	0.00	54.	1014.	2	NAD-SFC	NoSubs
8	3	21	81	12	112.3	0.100	1.238	0.007	611.	76.	-1.0	0.1620	0.32	0.14	0.50	306.0	15.0	288.8	2.0	0	0.00	47.	1013.	2	NAD-SFC	NoSubs
8	3	21	81	13	113.3	0.153	1.309	0.007	715.	144.	-2.9	0.1620	0.32	0.14	1.00	323.0	15.0	290.1	2.0	0	0.00	42.	1012.	2	NAD-SFC	NoSubs
8	3	21	81	14	105.2	0.248	1.326	0.007	799.	297.	-13.1	0.1620	0.32	0.14	2.10	326.0	15.0	291.2	2.0	0	0.00	39.	1011.	2	NAD-SFC	NoSubs
8	3	21	81	15	88.2	0.293	1.283	0.008	863.	381.	-25.7	0.1880	0.32	0.15	2.60	342.0	15.0	291.8	2.0	0	0.00	38.	1010.	2	NAD-SFC	NoSubs
8	3	21	81	16	62.8	0.326	1.164	0.008	906.	448.	-49.9	0.1880	0.32	0.17	3.10	340.0	15.0	291.8	2.0	0	0.00	39.	1010.	2	NAD-SFC	NoSubs
8	3	21	81	17	30.4	0.270	0.921	0.008	925.	338.	-58.2	0.1880	0.32	0.23	2.60	348.0	15.0	291.5	2.0	0	0.00	46.	1010.	2	NAD-SFC	NoSubs
8	3	21	81	18	-5.9	0.183	-9.000	-9.000	-999.	192.	93.8	0.1880	0.32	0.43	2.10	354.0	15.0	290.8	2.0	0	0.00	48.	1010.	2	NAD-SFC	NoSubs
8	3	21	81	19	-3.3	0.093	-9.000	-9.000	-999.	71.	21.4	0.1620	0.32	1.00	1.00	328.0	15.0	289.8	2.0	0	0.00	51.	1010.	2	NAD-SFC	NoSubs
8	3	21	81	20	-2.8	0.084	-9.000	-9.000	-999.	59.	19.4	0.0780	0.32	1.00	1.00	277.0	15.0	288.6	2.0	0	0.00	55.	1011.	2	NAD-SFC	NoSubs
8	3	21	81	21	-5.2	0.104	-9.000	-9.000	-999.	81.	19.9	0.0780	0.32	1.00	1.50	273.0	15.0	287.4	2.0	0	0.00	59.	1011.	2	NAD-SFC	NoSubs
8	3	21	81	22	-6.6	0.120	-9.000	-9.000	-999.	100.	24.0	0.1620	0.32	1.00	1.50	300.0	15.0	286.4	2.0	0	0.00	63.	1011.	2	NAD-SFC	NoSubs

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 8  3 21  81 23   -6.6  0.120 -9.000 -9.000 -999.  100.     24.0  0.1620  0.32  1.00  1.50  309.0  15.0  285.5  2.0   0  0.00   66.  1012.    2 NAD-SFC NoSubs
 8  3 21  81 24  -13.0  0.170 -9.000 -9.000 -999.  168.     33.9  0.1620  0.32  1.00  2.10  313.0  15.0  284.6  2.0   0  0.00   68.  1011.    2 NAD-SFC NoSubs
 8  3 22  82  1   -6.6  0.121 -9.000 -9.000 -999.  101.     24.0  0.1620  0.32  1.00  1.50  321.0  15.0  283.8  2.0   0  0.00   71.  1012.    2 NAD-SFC NoSubs
 8  3 22  82  2   -3.4  0.093 -9.000 -9.000 -999.   68.     21.5  0.1620  0.32  1.00  1.00  305.0  15.0  283.2  2.0   0  0.00   73.  1012.    2 NAD-SFC NoSubs
 8  3 22  82  3   -2.8  0.085 -9.000 -9.000 -999.   59.     19.5  0.0780  0.32  1.00  1.00  276.0  15.0  282.6  2.0   0  0.00   76.  1012.    2 NAD-SFC NoSubs
 8  3 22  82  4   -2.8  0.085 -9.000 -9.000 -999.   59.     19.5  0.0780  0.32  1.00  1.00  278.0  15.0  282.1  2.0   0  0.00   77.  1012.    2 NAD-SFC NoSubs
 8  3 22  82  5   -2.8  0.085 -9.000 -9.000 -999.   59.     19.5  0.0780  0.32  1.00  1.00  276.0  15.0  281.8  2.0   0  0.00   77.  1012.    2 NAD-SFC NoSubs
 8  3 22  82  6   -2.8  0.085 -9.000 -9.000 -999.   59.     19.5  0.0780  0.32  1.00  1.00  276.0  15.0  281.2  2.0   0  0.00   77.  1013.    2 NAD-SFC NoSubs
 8  3 22  82  7   -0.8  0.061 -9.000 -9.000 -999.   36.     25.1  0.0780  0.32  0.48  0.50  270.0  15.0  281.2  2.0   0  0.00   76.  1013.    2 NAD-SFC NoSubs
 8  3 22  82  8   24.1  0.128  0.418  0.011  109.   110.     -7.8  0.1620  0.32  0.24  1.00  312.0  15.0  282.8  2.0   0  0.00   65.  1013.    2 NAD-SFC NoSubs
 8  3 22  82  9   57.5  0.080  0.704  0.009  219.    54.     -1.0  0.0780  0.32  0.17  0.50  284.0  15.0  284.6  2.0   0  0.00   58.  1013.    2 NAD-SFC NoSubs
 8  3 22  82 10   84.5  0.084  0.917  0.009  330.    58.     -1.0  0.0780  0.32  0.15  0.50  283.0  15.0  287.1  2.0   0  0.00   48.  1012.    2 NAD-SFC NoSubs
 8  3 22  82 11  103.3  0.099  1.081  0.008  441.    75.     -1.0  0.1620  0.32  0.14  0.50  305.0  15.0  288.9  2.0   0  0.00   44.  1011.    2 NAD-SFC NoSubs
 8  3 22  82 12  113.4  0.153  1.203  0.008  553.   144.     -2.9  0.1620  0.32  0.14  1.00  320.0  15.0  290.8  2.0   0  0.00   40.  1010.    2 NAD-SFC NoSubs
 8  3 22  82 13  114.5  0.158  1.272  0.008  648.   151.     -3.1  0.1880  0.32  0.14  1.00  348.0  15.0  292.5  2.0   0  0.00   37.  1009.    2 NAD-SFC NoSubs
 8  3 22  82 14  106.4  0.256  1.293  0.009  732.   311.    -14.2  0.1880  0.32  0.14  2.10  348.0  15.0  293.8  2.0   0  0.00   34.  1009.    2 NAD-SFC NoSubs
 8  3 22  82 15   89.4  0.293  1.255  0.009  796.   381.    -25.4  0.1880  0.32  0.15  2.60  352.0  15.0  294.4  2.0   0  0.00   34.  1008.    2 NAD-SFC NoSubs
 8  3 22  82 16   63.9  0.368  1.142  0.009  839.   536.    -70.2  0.1880  0.32  0.17  3.60  357.0  15.0  294.4  2.0   0  0.00   36.  1008.    2 NAD-SFC NoSubs
 8  3 22  82 17   31.5 -9.000 -9.000 -9.000  857.  -999. -99999.0  0.0879  0.32  0.23  0.00    0.0  15.0  293.8  2.0   0  0.00   46.  1008.    2 NAD-SFC NoSubs
 8  3 22  82 18    5.1 -9.000 -9.000 -9.000 -999.  -999. -99999.0  0.0879  0.32  0.42  0.00    0.0  15.0  292.9  2.0   0  0.00   50.  1008.    2 NAD-SFC NoSubs
 8  3 22  82 19  -21.2  0.222 -9.000 -9.000 -999.   251.     46.5  0.1880  0.32  1.00  2.60  346.0  15.0  291.8  2.0   0  0.00   52.  1009.    2 NAD-SFC NoSubs
 8  3 22  82 20   -6.5  0.120 -9.000 -9.000 -999.   105.     24.2  0.1620  0.32  1.00  1.50  322.0  15.0  290.6  2.0   0  0.00   56.  1009.    2 NAD-SFC NoSubs
 8  3 22  82 21   -3.3  0.093 -9.000 -9.000 -999.    68.     21.4  0.1620  0.32  1.00  1.00  313.0  15.0  289.4  2.0   0  0.00   61.  1009.    2 NAD-SFC NoSubs
 8  3 22  82 22   -3.4  0.093 -9.000 -9.000 -999.    68.     21.4  0.1620  0.32  1.00  1.00  308.0  15.0  288.2  2.0   0  0.00   65.  1010.    2 NAD-SFC NoSubs
 8  3 22  82 23   -6.5  0.120 -9.000 -9.000 -999.   100.     24.1  0.1620  0.32  1.00  1.50  323.0  15.0  287.5  2.0   0  0.00   68.  1010.    2 NAD-SFC NoSubs
 8  3 22  82 24  -12.9  0.170 -9.000 -9.000 -999.   168.     34.0  0.1620  0.32  1.00  2.10  325.0  15.0  286.8  2.0   0  0.00   69.  1010.    2 NAD-SFC NoSubs
 8  3 23  83  1  -20.2  0.214 -9.000 -9.000 -999.   237.     43.6  0.1620  0.32  1.00  2.60  307.0  15.0  285.9  2.0   0  0.00   70.  1010.    2 NAD-SFC NoSubs
 8  3 23  83  2  -15.6  0.181 -9.000 -9.000 -999.   185.     34.4  0.0780  0.32  1.00  2.60  297.0  15.0  285.0  2.0   0  0.00   71.  1010.    2 NAD-SFC NoSubs
 8  3 23  83  3  -22.5  0.219 -9.000 -9.000 -999.   246.     42.1  0.0780  0.32  1.00  3.10  286.0  15.0  284.2  2.0   0  0.00   71.  1010.    2 NAD-SFC NoSubs
 8  3 23  83  4  -22.5  0.219 -9.000 -9.000 -999.   246.     42.1  0.0780  0.32  1.00  3.10  295.0  15.0  283.8  2.0   0  0.00   70.  1010.    2 NAD-SFC NoSubs
 8  3 23  83  5  -15.6  0.181 -9.000 -9.000 -999.   185.     34.3  0.0780  0.32  1.00  2.60  292.0  15.0  283.2  2.0   0  0.00   70.  1010.    2 NAD-SFC NoSubs
 8  3 23  83  6   -5.2  0.105 -9.000 -9.000 -999.    83.     19.8  0.0780  0.32  1.00  1.50  288.0  15.0  282.8  2.0   0  0.00   69.  1011.    2 NAD-SFC NoSubs
 8  3 23  83  7   -1.9  0.073 -9.000 -9.000 -999.    48.     18.8  0.0780  0.32  0.47  1.00  277.0  15.0  282.8  2.0   0  0.00   68.  1011.    2 NAD-SFC NoSubs
 8  3 23  83  8   25.3  0.170  0.404  0.012   94.   168.    -17.5  0.1620  0.32  0.24  1.50  329.0  15.0  284.6  2.0   0  0.00   57.  1012.    2 NAD-SFC NoSubs
 8  3 23  83  9   58.6  0.141  0.640  0.012  161.   128.     -4.4  0.1620  0.32  0.17  1.00  304.0  15.0  286.5  2.0   0  0.00   53.  1012.    2 NAD-SFC NoSubs
 8  3 23  83 10   85.6  0.084  0.828  0.009  239.    59.     -1.0  0.0780  0.32  0.15  0.50  276.0  15.0  288.9  2.0   0  0.00   48.  1011.    2 NAD-SFC NoSubs
 8  3 23  83 11  104.6  0.132  0.983  0.007  328.   115.     -2.0  0.0780  0.32  0.14  1.00  295.0  15.0  291.5  2.0   0  0.00   40.  1011.    2 NAD-SFC NoSubs
 8  3 23  83 12  114.6  0.153  1.107  0.006  426.   144.     -2.8  0.1620  0.32  0.14  1.00  313.0  15.0  293.1  2.0   0  0.00   37.  1010.    2 NAD-SFC NoSubs
 8  3 23  83 13  115.6  0.205  1.235  0.006  587.   223.     -6.7  0.1880  0.32  0.14  1.50  333.0  15.0  294.5  2.0   0  0.00   35.  1009.    2 NAD-SFC NoSubs
 8  3 23  83 14  107.5  0.256  1.286  0.006  711.   311.    -14.1  0.1880  0.32  0.14  2.10  337.0  15.0  295.8  2.0   0  0.00   32.  1008.    2 NAD-SFC NoSubs
 8  3 23  83 15   90.4  0.294  1.266  0.006  807.   382.    -25.2  0.1880  0.32  0.15  2.60  355.0  15.0  296.2  2.0   0  0.00   32.  1007.    2 NAD-SFC NoSubs
 8  3 23  83 16   65.0  0.369  1.163  0.006  869.   537.    -69.2  0.1880  0.32  0.17  3.60  352.0  15.0  296.2  2.0   0  0.00   34.  1006.    2 NAD-SFC NoSubs
 8  3 23  83 17   32.5  0.271  0.933  0.006  897.   344.    -55.1  0.1880  0.32  0.22  2.60  346.0  15.0  295.6  2.0   0  0.00   43.  1006.    2 NAD-SFC NoSubs
 8  3 23  83 18   -4.3  0.232 -9.000 -9.000 -999.   269.    262.5  0.1880  0.32  0.42  2.60  342.0  15.0  294.8  2.0   0  0.00   46.  1006.    2 NAD-SFC NoSubs
 8  3 23  83 19  -12.7  0.170 -9.000 -9.000 -999.   169.     34.5  0.1620  0.32  1.00  2.10  325.0  15.0  293.5  2.0   0  0.00   49.  1006.    2 NAD-SFC NoSubs
 8  3 23  83 20   -5.1  0.104 -9.000 -9.000 -999.    82.     20.0  0.0780  0.32  1.00  1.50  294.0  15.0  292.1  2.0   0  0.00   53.  1006.    2 NAD-SFC NoSubs
 8  3 23  83 21  -15.4  0.181 -9.000 -9.000 -999.   185.     34.8  0.0780  0.32  1.00  2.60  286.0  15.0  290.9  2.0   0  0.00   57.  1006.    2 NAD-SFC NoSubs
 8  3 23  83 22  -32.4  0.302 -9.000 -9.000 -999.   399.     76.4  0.1620  0.32  1.00  3.60  304.0  15.0  289.5  2.0   0  0.00   59.  1007.    2 NAD-SFC NoSubs
 8  3 23  83 23  -32.6  0.302 -9.000 -9.000 -999.   399.     76.0  0.1620  0.32  1.00  3.60  312.0  15.0  288.0  2.0   0  0.00   63.  1007.    2 NAD-SFC NoSubs
 8  3 23  83 24  -34.0  0.314 -9.000 -9.000 -999.   421.     81.5  0.1880  0.32  1.00  3.60  338.0  15.0  286.8  2.0   0  0.00   68.  1007.    2 NAD-SFC NoSubs
 8  3 24  84  1  -34.1  0.314 -9.000 -9.000 -999.   421.     81.2  0.1880  0.32  1.00  3.60  346.0  15.0  285.6  2.0   0  0.00   76.  1007.    2 NAD-SFC NoSubs
 8  3 24  84  2   -6.9  0.125 -9.000 -9.000 -999.   143.     25.1  0.1880  0.32  1.00  1.50  339.0  15.0  284.9  2.0   0  0.00   81.  1007.    2 NAD-SFC NoSubs
 8  3 24  84  3   -1.2  0.073 -9.000 -9.000 -999.    50.     29.1  0.0780  0.32  1.00  0.50  282.0  15.0  284.4  2.0   0  0.00   84.  1007.    2 NAD-SFC NoSubs
 8  3 24  84  4 -999.0 -9.000 -9.000 -9.000 -999.  -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  284.0  2.0   0  0.00   86.  1007.    2 NAD-SFC NoSubs
 8  3 24  84  5 -999.0 -9.000 -9.000 -9.000 -999.  -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  283.5  2.0   0  0.00   89.  1007.    2 NAD-SFC NoSubs
 8  3 24  84  6 -999.0 -9.000 -9.000 -9.000 -999.  -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  283.0  2.0   0  0.00   94.  1008.    2 NAD-SFC NoSubs
 8  3 24  84  7 -999.0 -9.000 -9.000 -9.000 -999.  -999. -99999.0  0.0879  0.32  0.46  0.00    0.0  15.0  282.8  2.0   0  0.00   97.  1008.    2 NAD-SFC NoSubs
 8  3 24  84  8   25.9  0.176  0.519  0.014  193.   177.    -18.9  0.1880  0.32  0.24  1.50  348.0  15.0  282.9  2.0   0  0.00   99.  1008.    2 NAD-SFC NoSubs
 8  3 24  84  9   59.0  0.146  0.746  0.013  253.   135.     -4.8  0.1900  0.32  0.17  1.00   10.0  15.0  282.9  2.0   0  0.00   99.  1008.    2 NAD-SFC NoSubs
 8  3 24  84 10   85.6  0.100  0.906  0.012  313.    77.     -1.1  0.1900  0.32  0.15  0.50   25.0  15.0  284.1  2.0   0  0.00   91.  1008.    2 NAD-SFC NoSubs
 8  3 24  84 11  104.6  0.103  1.029  0.010  374.    79.     -1.0  0.1880  0.32  0.14  0.50  332.0  15.0  287.6  2.0   0  0.00   71.  1007.    2 NAD-SFC NoSubs
 8  3 24  84 12  114.5  0.158  1.143  0.010  468.   151.     -3.1  0.1880  0.32  0.14  1.00  332.0  15.0  289.8  2.0   0  0.00   60.  1007.    2 NAD-SFC NoSubs
 8  3 24  84 13  115.5  0.205  1.216  0.009  559.   223.     -6.7  0.1880  0.32  0.14  1.50  335.0  15.0  291.6  2.0   0  0.00   52.  1006.    2 NAD-SFC NoSubs
 8  3 24  84 14  107.4  0.256  1.236  0.009  632.   312.    -14.1  0.1880  0.32  0.14  2.10  336.0  15.0  292.6  2.0   0  0.00   48.  1005.    2 NAD-SFC NoSubs
 8  3 24  84 15   90.2  0.252  1.203  0.009  692.   304.    -15.9  0.1880  0.32  0.15  2.10  344.0  15.0  293.2  2.0   0  0.00   47.  1005.    2 NAD-SFC NoSubs
 8  3 24  84 16   64.9  0.286  1.100  0.009  736.   367.    -32.3  0.1880  0.32  0.17  2.60  355.0  15.0  293.8  2.0   0  0.00   47.  1004.    2 NAD-SFC NoSubs
 8  3 24  84 17   32.5 -9.000 -9.000 -9.000  756.  -999. -99999.0  0.0879  0.32  0.22  0.00    0.0  15.0  293.8  2.0   0  0.00   52.  1004.    2 NAD-SFC NoSubs
 8  3 24  84 18   -1.3  0.085 -9.000 -9.000 -999.    60.     43.6  0.1900  0.32  0.41  1.00   27.0  15.0  293.1  2.0   0  0.00   55.  1005.    2 NAD-SFC NoSubs
 8  3 24  84 19 -999.0 -9.000 -9.000 -9.000 -999.  -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  292.0  2.0   0  0.00   59.  1005.    2 NAD-SFC NoSubs
 8  3 24  84 20   -1.0  0.067 -9.000 -9.000 -999.    41.     26.7  0.0330  0.32  1.00  0.50  202.0  15.0  290.8  2.0   0  0.00   65.  1005.    2 NAD-SFC NoSubs
 8  3 24  84 21   -1.0  0.066 -9.000 -9.000 -999.    41.     26.4  0.0310  0.32  1.00  0.50  249.0  15.0  289.8  2.0   0  0.00   70.  1005.    3 NAD-SFC NoSubs
 8  3 24  84 22   -2.7  0.083 -9.000 -9.000 -999.    58.     19.3  0.0780  0.32  1.00  1.00  292.0  15.0  289.0  2.0   0  0.00   75.  1006.    3 NAD-SFC NoSubs
 8  3 24  84 23   -6.4  0.120 -9.000 -9.000 -999.   100.     24.4  0.1620  0.32  1.00  1.50  314.0  15.0  288.4  2.0   0  0.00   78.  1006.    3 NAD-SFC NoSubs
 8  3 24  84 24  -12.7  0.170 -9.000 -9.000 -999.   168.     34.6  0.1620  0.32  1.00  2.10  317.0  15.0  287.9  2.0   0  0.00   79.  1006.    3 NAD-SFC NoSubs
 8  3 25  85  1   -6.4  0.120 -9.000 -9.000 -999.   101.     24.3  0.1620  0.32  1.00  1.50  318.0  15.0  287.6  2.0   0  0.00   80.  1006.    3 NAD-SFC NoSubs
 8  3 25  85  2   -6.8  0.124 -9.000 -9.000 -999.   105.     25.5  0.1880  0.32  1.00  1.50  333.0  15.0  287.2  2.0   0  0.00   80.  1006.    3 NAD-SFC NoSubs
 8  3 25  85  3   -1.4  0.079 -9.000 -9.000 -999.    54.     31.0  0.1880  0.32  1.00  0.50  340.0  15.0  287.1  2.0   0  0.00   80.  1006.    3 NAD-SFC NoSubs
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 8  3 25  85  4   -1.4  0.079 -9.000 -9.000 -999.   54.     31.0  0.1880  0.32  1.00  0.50  346.0  15.0  286.8  2.0   0  0.00   81.  1006.   3 NAD-SFC NoSubs
 8  3 25  85  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  286.5  2.0   0  0.00   82.  1006.   3 NAD-SFC NoSubs
 8  3 25  85  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  286.2  2.0   0  0.00   83.  1007.   3 NAD-SFC NoSubs
 8  3 25  85  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  0.45  0.00    0.0  15.0  286.0  2.0   0  0.00   83.  1007.   3 NAD-SFC NoSubs
 8  3 25  85  8   28.0 -9.000 -9.000 -9.000  216. -999. -99999.0  0.0879  0.32  0.23  0.00    0.0  15.0  286.2  2.0   0  0.00   82.  1008.   3 NAD-SFC NoSubs
 8  3 25  85  9   60.9 -9.000 -9.000 -9.000  311. -999. -99999.0  0.0879  0.32  0.17  0.00    0.0  15.0  287.2  2.0   0  0.00   74.  1008.   3 NAD-SFC NoSubs
 8  3 25  85 10   87.4 -9.000 -9.000 -9.000  427. -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0  288.8  2.0   0  0.00   66.  1008.   3 NAD-SFC NoSubs
 8  3 25  85 11  105.8 -9.000 -9.000 -9.000  582. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  290.2  2.0   0  0.00   60.  1008.   3 NAD-SFC NoSubs
 8  3 25  85 12  115.5 -9.000 -9.000 -9.000  731. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  291.4  2.0   0  0.00   55.  1007.   3 NAD-SFC NoSubs
 8  3 25  85 13  116.4 -9.000 -9.000 -9.000  873. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  292.5  2.0   0  0.00   51.  1006.   2 NAD-SFC NoSubs
 8  3 25  85 14  108.1  0.087  1.435  0.007  983.   61.     -1.0  0.0780  0.32  0.14  0.50  299.0  15.0  293.4  2.0   0  0.00   48.  1006.   2 NAD-SFC NoSubs
 8  3 25  85 15   91.1  0.200  1.383  0.007 1042.  215.     -7.9  0.1880  0.32  0.15  1.50  345.0  15.0  293.9  2.0   0  0.00   46.  1006.   3 NAD-SFC NoSubs
 8  3 25  85 16   66.0  0.286  1.259  0.007 1083.  368.    -31.9  0.1880  0.32  0.17  2.60  352.0  15.0  294.5  2.0   0  0.00   47.  1005.   3 NAD-SFC NoSubs
 8  3 25  85 17   34.0  0.272  1.015  0.007 1104.  341.    -53.2  0.1880  0.32  0.22  2.60  352.0  15.0  294.5  2.0   0  0.00   53.  1005.   3 NAD-SFC NoSubs
 8  3 25  85 18   -0.5  0.286 -9.000 -9.000 -999.  368.   4322.5  0.1880  0.32  0.41  3.10  352.0  15.0  293.9  2.0   0  0.00   57.  1006.   3 NAD-SFC NoSubs
 8  3 25  85 19  -37.2  0.359 -9.000 -9.000 -999.  517.    112.0  0.1880  0.32  1.00  4.10  338.0  15.0  292.2  2.0   0  0.00   63.  1006.   3 NAD-SFC NoSubs
 8  3 25  85 20  -37.4  0.359 -9.000 -9.000 -999.  517.    111.4  0.1880  0.32  1.00  4.10  331.0  15.0  290.8  2.0   0  0.00   68.  1007.   3 NAD-SFC NoSubs
 8  3 25  85 21  -31.6  0.302 -9.000 -9.000 -999.  401.     78.7  0.1620  0.32  1.00  3.60  329.0  15.0  290.0  2.0   0  0.00   69.  1007.   3 NAD-SFC NoSubs
 8  3 25  85 22  -28.1  0.268 -9.000 -9.000 -999.  334.     61.7  0.1880  0.32  1.00  3.10  332.0  15.0  289.2  2.0   0  0.00   70.  1008.   3 NAD-SFC NoSubs
 8  3 25  85 23  -27.1  0.258 -9.000 -9.000 -999.  315.     57.1  0.1620  0.32  1.00  3.10  317.0  15.0  288.5  2.0   0  0.00   72.  1008.   3 NAD-SFC NoSubs
 8  3 25  85 24  -36.5  0.346 -9.000 -9.000 -999.  489.    102.3  0.1620  0.32  1.00  4.10  317.0  15.0  287.6  2.0   0  0.00   74.  1008.   3 NAD-SFC NoSubs
 8  3 26  86  1  -42.9  0.405 -9.000 -9.000 -999.  618.    139.3  0.1880  0.32  1.00  4.60  338.0  15.0  286.2  2.0   0  0.00   79.  1009.   3 NAD-SFC NoSubs
 8  3 26  86  2  -33.4  0.314 -9.000 -9.000 -999.  427.     83.2  0.1880  0.32  1.00  3.60  345.0  15.0  285.1  2.0   0  0.00   81.  1009.   3 NAD-SFC NoSubs
 8  3 26  86  3  -21.2  0.222 -9.000 -9.000 -999.  255.     46.6  0.1880  0.32  1.00  2.60  334.0  15.0  284.6  2.0   0  0.00   81.  1010.   3 NAD-SFC NoSubs
 8  3 26  86  4   -6.5  0.120 -9.000 -9.000 -999.  105.     24.2  0.1620  0.32  1.00  1.50  308.0  15.0  284.1  2.0   0  0.00   81.  1010.   3 NAD-SFC NoSubs
 8  3 26  86  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  283.8  2.0   0  0.00   82.  1010.   3 NAD-SFC NoSubs
 8  3 26  86  6   -1.0  0.068 -9.000 -9.000 -999.   42.     27.1  0.0380  0.32  1.00  0.50  150.0  15.0  283.4  2.0   0  0.00   82.  1011.   3 NAD-SFC NoSubs
 8  3 26  86  7   13.8 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  0.44  0.00    0.0  15.0  283.2  2.0   0  0.00   83.  1011.   3 NAD-SFC NoSubs
 8  3 26  86  8   28.7  0.087  0.551  0.009  210.   61.     -2.0  0.1900  0.32  0.23  0.50    4.0  15.0  284.4  2.0   0  0.00   74.  1012.   3 NAD-SFC NoSubs
 8  3 26  86  9   61.1 -9.000 -9.000 -9.000  286. -999. -99999.0  0.0879  0.32  0.17  0.00    0.0  15.0  286.2  2.0   0  0.00   65.  1012.   2 NAD-SFC NoSubs
 8  3 26  86 10   87.8  0.097  0.965  0.007  370.   73.     -1.0  0.1620  0.32  0.15  0.50  303.0  15.0  287.9  2.0   0  0.00   58.  1012.   2 NAD-SFC NoSubs
 8  3 26  86 11  106.4  0.132  1.129  0.005  489.  115.     -1.9  0.0780  0.32  0.14  1.00  298.0  15.0  289.4  2.0   0  0.00   51.  1012.   2 NAD-SFC NoSubs
 8  3 26  86 12  116.1  0.251  1.247  0.005  603.  301.    -12.2  0.1620  0.32  0.14  2.10  311.0  15.0  290.8  2.0   0  0.00   45.  1011.   2 NAD-SFC NoSubs
 8  3 26  86 13  116.8  0.343  1.334  0.005  733.  481.    -31.0  0.1880  0.32  0.14  3.10  332.0  15.0  291.8  2.0   0  0.00   40.  1010.   2 NAD-SFC NoSubs
 8  3 26  86 14  108.4  0.465  1.376  0.005  867.  760.    -83.4  0.1880  0.32  0.14  4.60  340.0  15.0  292.2  2.0   0  0.00   38.  1010.   2 NAD-SFC NoSubs
 8  3 26  86 15   91.3  0.553  1.348  0.005  966.  986.   -166.8  0.1880  0.32  0.15  5.70  341.0  15.0  292.4  2.0   0  0.00   39.  1009.   3 NAD-SFC NoSubs
 8  3 26  86 16   66.0  0.632  1.242  0.006 1046. 1205.   -345.0  0.1880  0.32  0.17  6.70  351.0  15.0  292.0  2.0   0  0.00   41.  1009.   3 NAD-SFC NoSubs
 8  3 26  86 17   33.6  0.536  1.004  0.005 1082.  952.   -411.0  0.1880  0.32  0.22  5.70  354.0  15.0  290.8  2.0   0  0.00   53.  1009.   3 NAD-SFC NoSubs
 8  3 26  86 18   -3.4  0.423 -9.000 -9.000 -999.  673.   2020.9  0.1880  0.32  0.41  4.60  343.0  15.0  289.0  2.0   0  0.00   64.  1009.   3 NAD-SFC NoSubs
 8  3 26  86 19  -42.8  0.405 -9.000 -9.000 -999.  619.    139.8  0.1880  0.32  1.00  4.60  348.0  15.0  287.2  2.0   0  0.00   69.  1010.   3 NAD-SFC NoSubs
 8  3 26  86 20  -38.1  0.359 -9.000 -9.000 -999.  518.    109.6  0.1880  0.32  1.00  4.10  345.0  15.0  286.2  2.0   0  0.00   72.  1010.   3 NAD-SFC NoSubs
 8  3 26  86 21  -33.4  0.314 -9.000 -9.000 -999.  423.     83.3  0.1880  0.32  1.00  3.60  340.0  15.0  285.2  2.0   0  0.00   74.  1010.   3 NAD-SFC NoSubs
 8  3 26  86 22  -32.3  0.314 -9.000 -9.000 -999.  422.     86.4  0.1880  0.32  1.00  3.60  345.0  15.0  284.6  2.0   0  0.00   77.  1011.   4 NAD-SFC NoSubs
 8  3 26  86 23  -35.3  0.360 -9.000 -9.000 -999.  518.    119.1  0.1880  0.32  1.00  4.10  333.0  15.0  283.9  2.0   0  0.00   80.  1011.   5 NAD-SFC NoSubs
 8  3 26  86 24  -35.4  0.360 -9.000 -9.000 -999.  518.    118.8  0.1880  0.32  1.00  4.10  334.0  15.0  283.2  2.0   0  0.00   85.  1011.   5 NAD-SFC NoSubs
 8  3 27  87  1  -28.0  0.303 -9.000 -9.000 -999.  403.     89.8  0.1620  0.32  1.00  3.60  320.0  15.0  282.6  2.0   0  0.00   89.  1011.   6 NAD-SFC NoSubs
 8  3 27  87  2  -18.7  0.215 -9.000 -9.000 -999.  243.     48.0  0.1620  0.32  1.00  2.60  321.0  15.0  282.2  2.0   0  0.00   90.  1011.   6 NAD-SFC NoSubs
 8  3 27  87  3  -12.0  0.171 -9.000 -9.000 -999.  170.     37.4  0.1620  0.32  1.00  2.10  325.0  15.0  282.0  2.0   0  0.00   90.  1011.   6 NAD-SFC NoSubs
 8  3 27  87  4   -6.6  0.124 -9.000 -9.000 -999.  105.     26.2  0.1880  0.32  1.00  1.50  331.0  15.0  281.8  2.0   0  0.00   90.  1010.   5 NAD-SFC NoSubs
 8  3 27  87  5   -3.1  0.090 -9.000 -9.000 -999.   65.     21.3  0.1620  0.32  1.00  1.00  320.0  15.0  281.6  2.0   0  0.00   91.  1010.   5 NAD-SFC NoSubs
 8  3 27  87  6   -2.6  0.082 -9.000 -9.000 -999.   56.     19.1  0.0780  0.32  1.00  1.00  292.0  15.0  281.4  2.0   0  0.00   91.  1011.   5 NAD-SFC NoSubs
 8  3 27  87  7   -1.2  0.068 -9.000 -9.000 -999.   43.     23.0  0.0780  0.32  0.44  1.00  271.0  15.0  281.2  2.0   0  0.00   91.  1011.   4 NAD-SFC NoSubs
 8  3 27  87  8   29.2  0.221  0.590  0.005  253.  250.    -33.4  0.1620  0.32  0.23  2.10  325.0  15.0  282.0  2.0   0  0.00   84.  1011.   3 NAD-SFC NoSubs
 8  3 27  87  9   61.9  0.186  0.896  0.005  419.  193.     -9.4  0.1620  0.32  0.17  1.50  321.0  15.0  282.8  2.0   0  0.00   78.  1011.   3 NAD-SFC NoSubs
 8  3 27  87 10   87.9  0.193  1.113  0.005  565.  204.     -7.4  0.1620  0.32  0.15  1.50  314.0  15.0  283.8  2.0   0  0.00   73.  1011.   2 NAD-SFC NoSubs
 8  3 27  87 11  106.3  0.248  1.272  0.006  698.  297.    -13.0  0.1620  0.32  0.14  2.10  306.0  15.0  284.9  2.0   0  0.00   66.  1011.   2 NAD-SFC NoSubs
 8  3 27  87 12  115.9  0.291  1.377  0.005  811.  377.    -19.2  0.1620  0.32  0.14  2.60  313.0  15.0  285.9  2.0   0  0.00   61.  1009.   2 NAD-SFC NoSubs
 8  3 27  87 13  116.5  0.292  1.434  0.006  911.  378.    -19.1  0.1620  0.32  0.14  2.60  324.0  15.0  286.8  2.0   0  0.00   57.  1008.   2 NAD-SFC NoSubs
 8  3 27  87 14  108.1  0.298  1.441  0.008  996.  391.    -22.1  0.1880  0.32  0.14  2.60  332.0  15.0  287.4  2.0   0  0.00   53.  1008.   2 NAD-SFC NoSubs
 8  3 27  87 15   90.8  0.294  1.391  0.009 1064.  382.    -25.1  0.1880  0.32  0.15  2.60  342.0  15.0  288.0  2.0   0  0.00   48.  1007.   2 NAD-SFC NoSubs
 8  3 27  87 16   65.4  0.286  1.265  0.009 1112.  367.    -32.2  0.1880  0.32  0.16  2.60  353.0  15.0  288.4  2.0   0  0.00   44.  1006.   2 NAD-SFC NoSubs
 8  3 27  87 17   33.0  0.180  1.014  0.009 1134.  189.    -15.9  0.1880  0.32  0.22  1.50  348.0  15.0  288.4  2.0   0  0.00   48.  1006.   2 NAD-SFC NoSubs
 8  3 27  87 18   -1.1  0.082 -9.000 -9.000 -999.   62.     45.5  0.1620  0.32  0.40  1.00  329.0  15.0  288.0  2.0   0  0.00   51.  1006.   2 NAD-SFC NoSubs
 8  3 27  87 19  -12.8  0.170 -9.000 -9.000 -999.  168.     34.1  0.1620  0.32  1.00  2.10  315.0  15.0  287.2  2.0   0  0.00   55.  1006.   2 NAD-SFC NoSubs
 8  3 27  87 20  -32.8  0.302 -9.000 -9.000 -999.  399.     75.5  0.1620  0.32  1.00  3.60  307.0  15.0  286.2  2.0   0  0.00   60.  1006.   2 NAD-SFC NoSubs
 8  3 27  87 21  -37.7  0.346 -9.000 -9.000 -999.  488.     98.6  0.1620  0.32  1.00  4.10  323.0  15.0  284.8  2.0   0  0.00   64.  1006.   2 NAD-SFC NoSubs
 8  3 27  87 22  -28.3  0.258 -9.000 -9.000 -999.  318.     54.6  0.1620  0.32  1.00  3.10  329.0  15.0  283.6  2.0   0  0.00   67.  1007.   2 NAD-SFC NoSubs
 8  3 27  87 23  -13.7  0.176 -9.000 -9.000 -999.  180.     35.6  0.1880  0.32  1.00  2.10  336.0  15.0  283.0  2.0   0  0.00   68.  1007.   2 NAD-SFC NoSubs
 8  3 27  87 24   -7.0  0.125 -9.000 -9.000 -999.  106.     25.0  0.1880  0.32  1.00  1.50  352.0  15.0  282.4  2.0   0  0.00   69.  1007.   2 NAD-SFC NoSubs
 8  3 28  88  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  281.8  2.0   0  0.00   70.  1007.   2 NAD-SFC NoSubs
 8  3 28  88  2   -1.5  0.081 -9.000 -9.000 -999.   55.     31.5  0.1900  0.32  1.00  0.50   14.0  15.0  281.4  2.0   0  0.00   71.  1007.   2 NAD-SFC NoSubs
 8  3 28  88  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  280.8  2.0   0  0.00   73.  1007.   2 NAD-SFC NoSubs
 8  3 28  88  4   -1.5  0.081 -9.000 -9.000 -999.   55.     31.5  0.1880  0.32  1.00  0.50  357.0  15.0  280.2  2.0   0  0.00   76.  1007.   2 NAD-SFC NoSubs
 8  3 28  88  5   -1.5  0.081 -9.000 -9.000 -999.   55.     31.5  0.1880  0.32  1.00  0.50  341.0  15.0  279.6  2.0   0  0.00   79.  1007.   2 NAD-SFC NoSubs
 8  3 28  88  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  279.0  2.0   0  0.00   82.  1007.   2 NAD-SFC NoSubs
 8  3 28  88  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  0.43  0.00    0.0  15.0  279.0  2.0   0  0.00   83.  1007.   2 NAD-SFC NoSubs
 8  3 28  88  8   29.3 -9.000 -9.000 -9.000  161. -999. -99999.0  0.0879  0.32  0.23  0.00    0.0  15.0  281.4  2.0   0  0.00   71.  1007.   2 NAD-SFC NoSubs
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 8  3 28  88  9   62.4 -9.000 -9.000 -9.000  310. -999. -99999.0  0.0879  0.32  0.17  0.00    0.0  15.0  283.4  2.0  0  0.00  61.  1007.   2 NAD-SFC NoSubs
 8  3 28  88 10   88.9 -9.000 -9.000 -9.000  452. -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0  285.2  2.0  0  0.00  53.  1006.   2 NAD-SFC NoSubs
 8  3 28  88 11  107.4  0.087  1.214  0.010  598.   61.     -1.0  0.0780  0.32  0.14  0.50  281.0  15.0  287.0  2.0  0  0.00  45.  1006.   2 NAD-SFC NoSubs
 8  3 28  88 12  117.0  0.101  1.322  0.012  708.   77.     -1.0  0.1620  0.32  0.14  0.50  304.0  15.0  288.8  2.0  0  0.00  38.  1005.   2 NAD-SFC NoSubs
 8  3 28  88 13  117.7  0.154  1.374  0.013  791.  145.     -2.8  0.1620  0.32  0.14  1.00  309.0  15.0  290.0  2.0  0  0.00  33.  1004.   2 NAD-SFC NoSubs
 8  3 28  88 14  109.3  0.153  1.380  0.014  861.  143.     -2.9  0.1620  0.32  0.14  1.00  326.0  15.0  290.9  2.0  0  0.00  30.  1003.   2 NAD-SFC NoSubs
 8  3 28  88 15   92.0  0.201  1.331  0.014  916.  216.     -7.8  0.1880  0.32  0.15  1.50  347.0  15.0  291.5  2.0  0  0.00  29.  1002.   2 NAD-SFC NoSubs
 8  3 28  88 16   66.5 -9.000 -9.000 -9.000  954. -999. -99999.0  0.0879  0.32  0.16  0.00    0.0  15.0  291.8  2.0  0  0.00  30.  1001.   2 NAD-SFC NoSubs
 8  3 28  88 17   34.1  0.273  0.975  0.014  972.  342.    -53.3  0.1900  0.32  0.22  2.60   12.0  15.0  291.4  2.0  0  0.00  32.  1001.   2 NAD-SFC NoSubs
 8  3 28  88 18    0.4  0.194  0.222  0.014  971.  207.  -1621.5  0.1900  0.32  0.40  2.10    7.0  15.0  290.9  2.0  0  0.00  38.  1001.   3 NAD-SFC NoSubs
 8  3 28  88 19   -1.4  0.079 -9.000 -9.000 -999.   63.     30.9  0.1880  0.32  1.00  0.50  357.0  15.0  289.8  2.0  0  0.00  42.  1001.   3 NAD-SFC NoSubs
 8  3 28  88 20   -1.0  0.066 -9.000 -9.000 -999.   41.     26.6  0.0340  0.32  1.00  0.50  239.0  15.0  288.5  2.0  0  0.00  48.  1001.   3 NAD-SFC NoSubs
 8  3 28  88 21  -11.7  0.153 -9.000 -9.000 -999.  143.     27.2  0.0310  0.32  1.00  2.60  246.0  15.0  287.2  2.0  0  0.00  55.  1001.   3 NAD-SFC NoSubs
 8  3 28  88 22  -27.1  0.257 -9.000 -9.000 -999.  313.     56.0  0.0780  0.32  1.00  3.60  275.0  15.0  285.5  2.0  0  0.00  75.  1002.   3 NAD-SFC NoSubs
 8  3 28  88 23  -35.2  0.332 -9.000 -9.000 -999.  460.     93.3  0.0780  0.32  1.00  4.60  285.0  15.0  284.6  2.0  0  0.00  87.  1002.   3 NAD-SFC NoSubs
 8  3 28  88 24  -31.3  0.295 -9.000 -9.000 -999.  385.     73.1  0.0780  0.32  1.00  4.10  291.0  15.0  283.8  2.0  0  0.00  92.  1002.   3 NAD-SFC NoSubs
 8  3 29  89  1  -36.8  0.346 -9.000 -9.000 -999.  489.    100.7  0.1620  0.32  1.00  4.10  305.0  15.0  283.2  2.0  0  0.00  95.  1002.   3 NAD-SFC NoSubs
 8  3 29  89  2  -27.4  0.257 -9.000 -9.000 -999.  317.     55.5  0.0780  0.32  1.00  3.60  299.0  15.0  283.0  2.0  0  0.00  96.  1002.   3 NAD-SFC NoSubs
 8  3 29  89  3  -19.9  0.214 -9.000 -9.000 -999.  238.     44.0  0.1620  0.32  1.00  2.60  300.0  15.0  282.9  2.0  0  0.00  97.  1002.   3 NAD-SFC NoSubs
 8  3 29  89  4   -3.3  0.093 -9.000 -9.000 -999.   78.     21.4  0.1620  0.32  1.00  1.00  301.0  15.0  282.8  2.0  0  0.00  98.  1002.   3 NAD-SFC NoSubs
 8  3 29  89  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  282.8  2.0  0  0.00  98.  1002.   4 NAD-SFC NoSubs
 8  3 29  89  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  282.9  2.0  0  0.00  97.  1003.   4 NAD-SFC NoSubs
 8  3 29  89  7   -0.2  0.033 -9.000 -9.000 -999.   14.     17.8  0.0510  0.32  0.42  0.50  111.0  15.0  282.9  2.0  0  0.00  97.  1003.   5 NAD-SFC NoSubs
 8  3 29  89  8   21.5  0.065  0.427  0.005  129.   40.     -1.1  0.0510  0.32  0.22  0.50  109.0  15.0  283.8  2.0  0  0.00  93.  1003.   8 NAD-SFC NoSubs
 8  3 29  89  9   13.9  0.096  0.432  0.005  208.   72.     -5.7  0.0460  0.32  0.17  1.00  137.0  15.0  284.6  2.0  0  0.00  89.  1004.  10 NAD-SFC NoSubs
 8  3 29  89 10   20.6  0.060  0.547  0.005  284.   35.     -1.0  0.0330  0.32  0.15  0.50  200.0  15.0  285.6  2.0  0  0.00  82.  1004.  10 NAD-SFC NoSubs
 8  3 29  89 11   96.8  0.085  1.113  0.005  510.   60.     -1.0  0.0780  0.32  0.14  0.50  271.0  15.0  286.5  2.0  0  0.00  76.  1003.   6 NAD-SFC NoSubs
 8  3 29  89 12  111.9  0.133  1.285  0.006  678.  116.     -1.9  0.0780  0.32  0.14  1.00  282.0  15.0  287.1  2.0  0  0.00  73.  1003.   5 NAD-SFC NoSubs
 8  3 29  89 13  116.2  0.174  1.370  0.005  791.  174.     -4.0  0.0780  0.32  0.14  1.50  294.0  15.0  287.8  2.0  0  0.00  70.  1002.   4 NAD-SFC NoSubs
 8  3 29  89 14  107.9  0.217  1.387  0.006  884.  243.     -8.5  0.0780  0.32  0.14  2.10  299.0  15.0  288.2  2.0  0  0.00  67.  1002.   4 NAD-SFC NoSubs
 8  3 29  89 15   92.2  0.286  1.350  0.006  955.  366.    -22.6  0.1620  0.32  0.15  2.60  313.0  15.0  288.6  2.0  0  0.00  65.  1002.   3 NAD-SFC NoSubs
 8  3 29  89 16   66.4  0.318  1.232  0.006 1007.  431.    -43.4  0.1620  0.32  0.16  3.10  325.0  15.0  288.8  2.0  0  0.00  65.  1002.   4 NAD-SFC NoSubs
 8  3 29  89 17   34.9  0.273  1.004  0.006 1034.  343.    -52.0  0.1880  0.32  0.22  2.60  338.0  15.0  288.8  2.0  0  0.00  70.  1002.   4 NAD-SFC NoSubs
 8  3 29  89 18   -4.1  0.185 -9.000 -9.000 -999.  194.    136.5  0.1880  0.32  0.39  2.10  344.0  15.0  288.2  2.0  0  0.00  72.  1002.  10 NAD-SFC NoSubs
 8  3 29  89 19   -2.2  0.084 -9.000 -9.000 -999.   64.     23.9  0.1880  0.32  1.00  1.00  340.0  15.0  287.8  2.0  0  0.00  75.  1003.  10 NAD-SFC NoSubs
 8  3 29  89 20   -1.4  0.063 -9.000 -9.000 -999.   38.     16.4  0.0340  0.32  1.00  1.00  237.0  15.0  287.4  2.0  0  0.00  77.  1003.  10 NAD-SFC NoSubs
 8  3 29  89 21  -12.1  0.220 -9.000 -9.000 -999.  248.     79.0  0.0310  0.32  1.00  3.60  255.0  15.0  286.8  2.0  0  0.00  77.  1003.  10 NAD-SFC NoSubs
 8  3 29  89 22  -26.3  0.314 -9.000 -9.000 -999.  422.    105.6  0.0310  0.32  1.00  5.10  264.0  15.0  285.2  2.0  0  0.00  72.  1004.   7 NAD-SFC NoSubs
 8  3 29  89 23  -19.8  0.356 -9.000 -9.000 -999.  509.    203.8  0.0310  0.32  1.00  5.70  267.0  15.0  284.2  2.0  0  0.00  71.  1004.  10 NAD-SFC NoSubs
 8  3 29  89 24  -23.5  0.421 -9.000 -9.000 -999.  656.    285.1  0.0780  0.32  1.00  5.70  281.0  15.0  283.8  2.0  0  0.00  72.  1004.  10 NAD-SFC NoSubs
 8  3 30  90  1  -20.9  0.375 -9.000 -9.000 -999.  553.    226.0  0.0780  0.32  1.00  5.10  276.0  15.0  283.6  2.0  0  0.00  69.  1004.  10 NAD-SFC NoSubs
 8  3 30  90  2  -18.8  0.337 -9.000 -9.000 -999.  470.    182.0  0.0780  0.32  1.00  4.60  283.0  15.0  283.2  2.0  0  0.00  68.  1005.  10 NAD-SFC NoSubs
 8  3 30  90  3  -16.7  0.299 -9.000 -9.000 -999.  393.    142.9  0.0780  0.32  1.00  4.10  274.0  15.0  282.8  2.0  0  0.00  69.  1005.  10 NAD-SFC NoSubs
 8  3 30  90  4  -16.7  0.299 -9.000 -9.000 -999.  392.    142.8  0.0780  0.32  1.00  4.10  272.0  15.0  282.5  2.0  0  0.00  69.  1006.  10 NAD-SFC NoSubs
 8  3 30  90  5  -16.8  0.299 -9.000 -9.000 -999.  392.    142.7  0.0780  0.32  1.00  4.10  277.0  15.0  282.2  2.0  0  0.00  70.  1006.  10 NAD-SFC NoSubs
 8  3 30  90  6  -10.6  0.189 -9.000 -9.000 -999.  203.     56.7  0.0310  0.32  1.00  3.10  266.0  15.0  281.8  2.0  0  0.00  73.  1007.  10 NAD-SFC NoSubs
 8  3 30  90  7  -10.2  0.302 -9.000 -9.000 -999.  398.    241.1  0.0780  0.32  0.41  4.10  283.0  15.0  281.6  2.0  0  0.00  72.  1007.  10 NAD-SFC NoSubs
 8  3 30  90  8    5.6  0.209  0.281  0.005  141.  233.   -146.0  0.0780  0.32  0.22  2.60  288.0  15.0  282.8  2.0  0  0.00  64.  1008.  10 NAD-SFC NoSubs
 8  3 30  90  9   43.5  0.119  0.729  0.005  321.  102.     -3.5  0.0780  0.32  0.17  1.00  283.0  15.0  284.2  2.0  0  0.00  57.  1008.   8 NAD-SFC NoSubs
 8  3 30  90 10   73.0  0.082  0.990  0.005  477.   57.     -1.0  0.0780  0.32  0.15  0.50  275.0  15.0  285.2  2.0  0  0.00  53.  1008.   7 NAD-SFC NoSubs
 8  3 30  90 11  107.2  0.087  1.244  0.005  646.   61.     -1.0  0.0780  0.32  0.14  0.50  281.0  15.0  286.2  2.0  0  0.00  48.  1008.   4 NAD-SFC NoSubs
 8  3 30  90 12  118.0  0.154  1.449  0.005  928.  145.     -2.8  0.1620  0.32  0.14  1.00  301.0  15.0  287.4  2.0  0  0.00  43.  1007.   3 NAD-SFC NoSubs
 8  3 30  90 13  118.4  0.200  1.534  0.006 1097.  214.     -6.0  0.1620  0.32  0.14  1.50  318.0  15.0  288.2  2.0  0  0.00  39.  1007.   3 NAD-SFC NoSubs
 8  3 30  90 14  110.0  0.299  1.553  0.007 1224.  392.    -21.8  0.1880  0.32  0.14  2.60  342.0  15.0  288.8  2.0  0  0.00  37.  1006.   3 NAD-SFC NoSubs
 8  3 30  90 15   92.8  0.378  1.506  0.008 1322.  557.    -52.1  0.1880  0.32  0.15  3.60  355.0  15.0  289.1  2.0  0  0.00  37.  1006.   3 NAD-SFC NoSubs
 8  3 30  90 16   67.5  0.454  1.366  0.009 1357.  733.   -123.9  0.1880  0.32  0.16  4.60  355.0  15.0  289.5  2.0  0  0.00  36.  1006.   3 NAD-SFC NoSubs
 8  3 30  90 17   35.3  0.441  1.104  0.009 1369.  704.   -218.1  0.1880  0.32  0.21  4.60  354.0  15.0  289.0  2.0  0  0.00  42.  1006.   3 NAD-SFC NoSubs
 8  3 30  90 18    0.6  0.421  0.290  0.009 1368.  656.  -8888.0  0.1880  0.32  0.39  4.60  337.0  15.0  287.8  2.0  0  0.00  52.  1006.   3 NAD-SFC NoSubs
 8  3 30  90 19  -42.9  0.405 -9.000 -9.000 -999.  619.    139.2  0.1880  0.32  1.00  4.60  341.0  15.0  286.0  2.0  0  0.00  57.  1007.   3 NAD-SFC NoSubs
 8  3 30  90 20  -43.1  0.405 -9.000 -9.000 -999.  619.    138.5  0.1880  0.32  1.00  4.60  333.0  15.0  284.8  2.0  0  0.00  60.  1007.   3 NAD-SFC NoSubs
 8  3 30  90 21  -37.0  0.346 -9.000 -9.000 -999.  491.    101.0  0.1620  0.32  1.00  4.10  321.0  15.0  283.9  2.0  0  0.00  62.  1008.   3 NAD-SFC NoSubs
 8  3 30  90 22  -32.3  0.302 -9.000 -9.000 -999.  400.     76.7  0.1620  0.32  1.00  3.60  306.0  15.0  283.1  2.0  0  0.00  65.  1008.   3 NAD-SFC NoSubs
 8  3 30  90 23  -27.6  0.257 -9.000 -9.000 -999.  314.     55.3  0.0780  0.32  1.00  3.60  296.0  15.0  282.2  2.0  0  0.00  69.  1009.   3 NAD-SFC NoSubs
 8  3 30  90 24  -27.8  0.258 -9.000 -9.000 -999.  315.     55.6  0.1620  0.32  1.00  3.10  314.0  15.0  281.4  2.0  0  0.00  74.  1009.   3 NAD-SFC NoSubs
 8  3 31  91  1  -20.1  0.214 -9.000 -9.000 -999.  238.     43.8  0.1620  0.32  1.00  2.60  319.0  15.0  280.8  2.0  0  0.00  77.  1010.   3 NAD-SFC NoSubs
 8  3 31  91  2   -6.5  0.120 -9.000 -9.000 -999.  104.     24.1  0.1620  0.32  1.00  1.50  319.0  15.0  280.2  2.0  0  0.00  80.  1010.   3 NAD-SFC NoSubs
 8  3 31  91  3   -1.5  0.080 -9.000 -9.000 -999.   55.     31.3  0.1880  0.32  1.00  0.50  334.0  15.0  279.8  2.0  0  0.00  81.  1010.   3 NAD-SFC NoSubs
 8  3 31  91  4   -1.4  0.079 -9.000 -9.000 -999.   53.     30.9  0.1620  0.32  1.00  0.50  311.0  15.0  279.2  2.0  0  0.00  83.  1010.   3 NAD-SFC NoSubs
 8  3 31  91  5   -1.2  0.073 -9.000 -9.000 -999.   47.     29.1  0.0780  0.32  1.00  0.50  279.0  15.0  278.9  2.0  0  0.00  84.  1010.   3 NAD-SFC NoSubs
 8  3 31  91  6   -1.0  0.067 -9.000 -9.000 -999.   42.     26.7  0.0310  0.32  1.00  0.50  262.0  15.0  278.8  2.0  0  0.00  85.  1011.   3 NAD-SFC NoSubs
 8  3 31  91  7   15.7 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  0.40  0.00    0.0  15.0  278.8  2.0  0  0.00  86.  1011.   3 NAD-SFC NoSubs
 8  3 31  91  8   32.5  0.088  0.640  0.005  291.   63.     -1.9  0.1880  0.32  0.22  0.50  342.0  15.0  279.8  2.0  0  0.00  80.  1011.   3 NAD-SFC NoSubs
 8  3 31  91  9   65.0 -9.000 -9.000 -9.000  443. -999. -99999.0  0.0879  0.32  0.16  0.00    0.0  15.0  281.1  2.0  0  0.00  72.  1011.   3 NAD-SFC NoSubs
 8  3 31  91 10   90.8 -9.000 -9.000 -9.000  579. -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0  282.6  2.0  0  0.00  64.  1010.   2 NAD-SFC NoSubs
 8  3 31  91 11  109.0 -9.000 -9.000 -9.000  703. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  284.2  2.0  0  0.00  57.  1010.   2 NAD-SFC NoSubs
 8  3 31  91 12  118.4 -9.000 -9.000 -9.000  807. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  285.8  2.0  0  0.00  50.  1009.   2 NAD-SFC NoSubs
 8  3 31  91 13  118.8 -9.000 -9.000 -9.000  900. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  286.8  2.0  0  0.00  45.  1008.   2 NAD-SFC NoSubs
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 8  3 31  91 14  110.3  0.100  1.446  0.005  985.   76.     -1.0  0.1620  0.32  0.14  0.50  321.0  15.0  287.5  2.0   0  0.00  43.  1007.   2 NAD-SFC NoSubs
 8  3 31  91 15   92.9  0.154  1.416  0.006 1097.  145.     -3.5  0.1880  0.32  0.15  1.00  338.0  15.0  287.9  2.0   0  0.00  41.  1006.   2 NAD-SFC NoSubs
 8  3 31  91 16   67.3  0.193  1.300  0.006 1171.  204.     -9.6  0.1880  0.32  0.16  1.50  354.0  15.0  288.0  2.0   0  0.00  41.  1006.   2 NAD-SFC NoSubs
 8  3 31  91 17   34.9  0.231  1.054  0.007 1206.  267.    -31.8  0.1880  0.32  0.21  2.10  358.0  15.0  287.8  2.0   0  0.00  47.  1006.   2 NAD-SFC NoSubs
 8  3 31  91 18   -0.1  0.195 -9.000 -9.000 -999.  206.   4674.6  0.1900  0.32  0.38  2.10   12.0  15.0  287.2  2.0   0  0.00  50.  1006.   2 NAD-SFC NoSubs
 8  3 31  91 19   -6.9  0.125 -9.000 -9.000 -999.  107.     25.2  0.1900  0.32  1.00  1.50   25.0  15.0  286.6  2.0   0  0.00  53.  1006.   2 NAD-SFC NoSubs
 8  3 31  91 20   -1.3  0.077 -9.000 -9.000 -999.   52.     30.4  0.1280  0.32  1.00  0.50   40.0  15.0  286.0  2.0   0  0.00  56.  1006.   2 NAD-SFC NoSubs
 8  3 31  91 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  285.5  2.0   0  0.00  60.  1006.   2 NAD-SFC NoSubs
 8  3 31  91 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  285.0  2.0   0  0.00  63.  1006.   2 NAD-SFC NoSubs
 8  3 31  91 23   -1.0  0.067 -9.000 -9.000 -999.   42.     26.8  0.0310  0.32  1.00  0.50  268.0  15.0  284.8  2.0   0  0.00  65.  1007.   2 NAD-SFC NoSubs
 8  3 31  91 24   -2.8  0.085 -9.000 -9.000 -999.   59.     19.4  0.0780  0.32  1.00  1.00  285.0  15.0  284.2  2.0   0  0.00  67.  1006.   2 NAD-SFC NoSubs
 8  4  1  92  1   -1.2  0.073 -9.000 -9.000 -999.   48.     29.2  0.0780  0.32  1.00  0.50  294.0  15.0  283.8  2.0   0  0.00  70.  1006.   2 NAD-SFC NoSubs
 8  4  1  92  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  283.5  2.0   0  0.00  71.  1007.   2 NAD-SFC NoSubs
 8  4  1  92  3   -1.0  0.067 -9.000 -9.000 -999.   42.     26.8  0.0340  0.32  1.00  0.50  229.0  15.0  283.2  2.0   0  0.00  72.  1007.   3 NAD-SFC NoSubs
 8  4  1  92  4   -1.0  0.067 -9.000 -9.000 -999.   42.     26.8  0.0340  0.32  1.00  0.50  217.0  15.0  283.2  2.0   0  0.00  72.  1007.   3 NAD-SFC NoSubs
 8  4  1  92  5   -1.0  0.067 -9.000 -9.000 -999.   42.     26.8  0.0340  0.32  1.00  0.50  224.0  15.0  282.9  2.0   0  0.00  74.  1007.   3 NAD-SFC NoSubs
 8  4  1  92  6   -1.0  0.067 -9.000 -9.000 -999.   42.     26.9  0.0310  0.32  1.00  0.50  262.0  15.0  282.8  2.0   0  0.00  75.  1007.   2 NAD-SFC NoSubs
 8  4  1  92  7   -0.2  0.037 -9.000 -9.000 -999.   17.     18.8  0.0780  0.32  0.40  0.50  297.0  15.0  282.6  2.0   0  0.00  76.  1008.   2 NAD-SFC NoSubs
 8  4  1  92  8   33.0  0.137  0.523  0.005  155.  121.     -6.9  0.1880  0.32  0.22  1.00  340.0  15.0  283.2  2.0   0  0.00  68.  1008.   2 NAD-SFC NoSubs
 8  4  1  92  9   65.9 -9.000 -9.000 -9.000  334. -999. -99999.0  0.0879  0.32  0.16  0.00    0.0  15.0  285.1  2.0   0  0.00  57.  1008.   2 NAD-SFC NoSubs
 8  4  1  92 10   92.2 -9.000 -9.000 -9.000  644. -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0  286.8  2.0   0  0.00  48.  1008.   2 NAD-SFC NoSubs
 8  4  1  92 11  110.3 -9.000 -9.000 -9.000  778. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  288.2  2.0   0  0.00  43.  1007.   2 NAD-SFC NoSubs
 8  4  1  92 12  119.7 -9.000 -9.000 -9.000  894. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  289.4  2.0   0  0.00  39.  1007.   2 NAD-SFC NoSubs
 8  4  1  92 13  120.1 -9.000 -9.000 -9.000  991. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  290.5  2.0   0  0.00  37.  1006.   2 NAD-SFC NoSubs
 8  4  1  92 14  111.5  0.100  1.486  0.007 1055.   76.     -1.0  0.1620  0.32  0.14  0.50  317.0  15.0  291.2  2.0   0  0.00  34.  1005.   2 NAD-SFC NoSubs
 8  4  1  92 15   94.2  0.201  1.428  0.007 1107.  216.     -7.7  0.1880  0.32  0.15  1.50  340.0  15.0  291.9  2.0   0  0.00  32.  1004.   2 NAD-SFC NoSubs
 8  4  1  92 16   68.6  0.287  1.298  0.007 1143.  370.    -31.0  0.1880  0.32  0.16  2.60  349.0  15.0  292.0  2.0   0  0.00  32.  1004.   2 NAD-SFC NoSubs
 8  4  1  92 17   36.1  0.316  1.053  0.007 1160.  425.    -77.9  0.1900  0.32  0.21  3.10   10.0  15.0  291.4  2.0   0  0.00  39.  1004.   2 NAD-SFC NoSubs
 8  4  1  92 18    0.9  0.331  0.309  0.007 1159.  457.  -3562.9  0.1900  0.32  0.38  3.60   25.0  15.0  290.2  2.0   0  0.00  47.  1004.   2 NAD-SFC NoSubs
 8  4  1  92 19  -21.3  0.223 -9.000 -9.000 -999.  258.     46.5  0.1900  0.32  1.00  2.60   14.0  15.0  289.5  2.0   0  0.00  48.  1005.   2 NAD-SFC NoSubs
 8  4  1  92 20  -26.9  0.257 -9.000 -9.000 -999.  313.     56.7  0.0780  0.32  1.00  3.60  276.0  15.0  289.0  2.0   0  0.00  52.  1006.   3 NAD-SFC NoSubs
 8  4  1  92 21  -26.2  0.249 -9.000 -9.000 -999.  298.     52.8  0.0310  0.32  1.00  4.10  269.0  15.0  287.2  2.0   0  0.00  65.  1006.   3 NAD-SFC NoSubs
 8  4  1  92 22  -31.2  0.295 -9.000 -9.000 -999.  384.     73.8  0.0780  0.32  1.00  4.10  279.0  15.0  286.4  2.0   0  0.00  69.  1007.   3 NAD-SFC NoSubs
 8  4  1  92 23  -22.1  0.219 -9.000 -9.000 -999.  249.     42.9  0.0780  0.32  1.00  3.10  278.0  15.0  286.0  2.0   0  0.00  69.  1007.   3 NAD-SFC NoSubs
 8  4  1  92 24  -11.8  0.153 -9.000 -9.000 -999.  144.     27.1  0.0310  0.32  1.00  2.60  266.0  15.0  285.8  2.0   0  0.00  69.  1007.   3 NAD-SFC NoSubs
 8  4  2  93  1   -2.7  0.084 -9.000 -9.000 -999.   59.     19.3  0.0780  0.32  1.00  1.00  280.0  15.0  285.5  2.0   0  0.00  69.  1007.   3 NAD-SFC NoSubs
 8  4  2  93  2   -1.4  0.078 -9.000 -9.000 -999.   53.     30.7  0.1900  0.32  1.00  0.50   22.0  15.0  285.4  2.0   0  0.00  69.  1007.   4 NAD-SFC NoSubs
 8  4  2  93  3   -1.4  0.078 -9.000 -9.000 -999.   53.     30.7  0.1900  0.32  1.00  0.50   26.0  15.0  285.2  2.0   0  0.00  71.  1007.   4 NAD-SFC NoSubs
 8  4  2  93  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  284.8  2.0   0  0.00  75.  1007.   7 NAD-SFC NoSubs
 8  4  2  93  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  284.2  2.0   0  0.25  81.  1007.   6 NAD-SFC NoSubs
 8  4  2  93  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  283.8  2.0   0  0.25  86.  1008.   5 NAD-SFC NoSubs
 8  4  2  93  7    1.6  0.075  0.153  0.005   82.   50.    -24.7  0.0310  0.32  0.39  1.00  250.0  15.0  283.6  2.0   0  0.51  90.  1008.   5 NAD-SFC NoSubs
 8  4  2  93  8   34.0  0.100  0.675  0.005  325.   76.     -2.7  0.0340  0.32  0.21  1.00  234.0  15.0  283.5  2.0   0  0.51  90.  1008.   5 NAD-SFC NoSubs
 8  4  2  93  9   64.5  0.107  0.966  0.005  503.   84.     -1.7  0.0330  0.32  0.16  1.00  193.0  15.0  283.9  2.0   0  0.76  88.  1008.   5 NAD-SFC NoSubs
 8  4  2  93 10   88.7  0.114  1.190  0.005  684.   92.     -1.5  0.0380  0.32  0.15  1.00  173.0  15.0  284.4  2.0   0  0.76  85.  1008.   5 NAD-SFC NoSubs
 8  4  2  93 11   98.9  0.075  1.308  0.005  815.   49.     -1.0  0.0380  0.32  0.14  0.50  158.0  15.0  285.0  2.0   0  0.76  83.  1008.   6 NAD-SFC NoSubs
 8  4  2  93 12   95.7  0.075  1.350  0.005  925.   49.     -1.0  0.0380  0.32  0.14  0.50  154.0  15.0  285.4  2.0   0  0.76  82.  1008.   7 NAD-SFC NoSubs
 8  4  2  93 13  107.0  0.078  1.471  0.005 1069.   53.     -1.0  0.0460  0.32  0.14  0.50  122.0  15.0  285.6  2.0   0  1.02  82.  1007.   6 NAD-SFC NoSubs
 8  4  2  93 14   99.4  0.121  1.494  0.005 1207.  102.     -1.6  0.0510  0.32  0.14  1.00  107.0  15.0  285.8  2.0   0  1.02  82.  1007.   6 NAD-SFC NoSubs
 8  4  2  93 15   89.7  0.157  1.487  0.006 1319.  149.     -3.8  0.0510  0.32  0.15  1.50  115.0  15.0  285.8  2.0   0  1.02  84.  1007.   5 NAD-SFC NoSubs
 8  4  2  93 16   65.8  0.193  1.358  0.006 1367.  203.     -9.7  0.0510  0.32  0.16  2.10  103.0  15.0  285.9  2.0   0  0.51  86.  1006.   5 NAD-SFC NoSubs
 8  4  2  93 17   35.6  0.183  1.113  0.006 1387.  188.    -15.4  0.0510  0.32  0.21  2.10  103.0  15.0  285.9  2.0   0  0.25  88.  1006.   5 NAD-SFC NoSubs
 8  4  2  93 18    3.2  0.086  0.499  0.006 1388.   65.    -17.7  0.0510  0.32  0.38  1.00   96.0  15.0  285.8  2.0   0  0.00  91.  1007.   6 NAD-SFC NoSubs
 8  4  2  93 19   -0.6  0.053 -9.000 -9.000 -999.   29.     22.3  0.0510  0.32  1.00  0.50  109.0  15.0  285.4  2.0   0  0.25  93.  1007.  10 NAD-SFC NoSubs
 8  4  2  93 20   -0.7  0.058 -9.000 -9.000 -999.   34.     24.5  0.1280  0.32  1.00  0.50   57.0  15.0  285.2  2.0   0  0.25  95.  1007.  10 NAD-SFC NoSubs
 8  4  2  93 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  285.2  2.0   0  0.25  96.  1008.   6 NAD-SFC NoSubs
 8  4  2  93 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  285.1  2.0   0  0.51  97.  1008.   5 NAD-SFC NoSubs
 8  4  2  93 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  285.0  2.0   0  0.51  98.  1008.   5 NAD-SFC NoSubs
 8  4  2  93 24   -0.9  0.062 -9.000 -9.000 -999.   37.     25.3  0.0460  0.32  1.00  0.50  123.0  15.0  284.9  2.0   0  1.02  99.  1008.   7 NAD-SFC NoSubs
 8  4  3  94  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  284.9  2.0   0  1.27 100.  1008.   6 NAD-SFC NoSubs
 8  4  3  94  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  284.9  2.0   0  1.27 100.  1009.   7 NAD-SFC NoSubs
 8  4  3  94  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  284.9  2.0   0  1.02 100.  1009.   6 NAD-SFC NoSubs
 8  4  3  94  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  285.0  2.0   0  0.51 100.  1009.   5 NAD-SFC NoSubs
 8  4  3  94  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  285.0  2.0   0  0.25  99.  1009.   8 NAD-SFC NoSubs
 8  4  3  94  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  285.1  2.0   0  0.25  99.  1010.  10 NAD-SFC NoSubs
 8  4  3  94  7    1.7 -9.000 -9.000 -9.000   96. -999. -99999.0  0.0879  0.32  0.38  0.00    0.0  15.0  285.1  2.0   0  0.00  99.  1011.   8 NAD-SFC NoSubs
 8  4  3  94  8   29.8  0.125  0.541  0.005  192.  106.     -5.9  0.1280  0.32  0.21  1.00   44.0  15.0  285.2  2.0   0  0.00  96.  1011.   7 NAD-SFC NoSubs
 8  4  3  94  9   68.0  0.149  0.947  0.005  450.  138.     -4.4  0.1900  0.32  0.16  1.00   16.0  15.0  285.8  2.0   0  0.00  91.  1012.   3 NAD-SFC NoSubs
 8  4  3  94 10   93.8  0.098  1.156  0.005  595.   74.     -1.0  0.1620  0.32  0.15  0.50  318.0  15.0  286.8  2.0   0  0.00  83.  1012.   3 NAD-SFC NoSubs
 8  4  3  94 11  111.7 -9.000 -9.000 -9.000  749. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  288.8  2.0   0  0.00  70.  1012.   2 NAD-SFC NoSubs
 8  4  3  94 12  121.0 -9.000 -9.000 -9.000  898. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  290.2  2.0   0  0.00  62.  1011.   2 NAD-SFC NoSubs
 8  4  3  94 13  121.4  0.102  1.500  0.006 1004.   78.     -1.0  0.1620  0.32  0.14  0.50  308.0  15.0  291.4  2.0   0  0.00  56.  1010.   2 NAD-SFC NoSubs
 8  4  3  94 14  112.8  0.101  1.495  0.005 1068.   77.     -1.0  0.1620  0.32  0.14  0.50  322.0  15.0  292.2  2.0   0  0.00  52.  1009.   3 NAD-SFC NoSubs
 8  4  3  94 15   95.6  0.150  1.437  0.005 1120.  139.     -3.2  0.1620  0.32  0.15  1.00  328.0  15.0  292.9  2.0   0  0.00  49.  1009.   3 NAD-SFC NoSubs
 8  4  3  94 16   69.9  0.245  1.309  0.005 1156.  292.    -19.0  0.1880  0.32  0.16  2.10  336.0  15.0  293.2  2.0   0  0.00  47.  1008.   2 NAD-SFC NoSubs
 8  4  3  94 17   37.4  0.315  1.069  0.005 1175.  425.    -75.4  0.1880  0.32  0.21  3.10  354.0  15.0  293.1  2.0   0  0.00  48.  1008.   2 NAD-SFC NoSubs
 8  4  3  94 18    2.3  0.243  0.420  0.005 1175.  289.   -565.9  0.1880  0.32  0.37  2.60  356.0  15.0  292.6  2.0   0  0.00  53.  1008.   2 NAD-SFC NoSubs
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8	4	3	94	19	-6.9	0.125	-9.000	-9.000	-999.	114.	25.4	0.1900	0.32	1.00	1.50	6.0	15.0	291.8	2.0	0	0.00	55.	1009.	2	NAD-SFC	NoSubs
8	4	3	94	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	290.4	2.0	0	0.00	61.	1009.	2	NAD-SFC	NoSubs
8	4	3	94	21	-1.1	0.069	-9.000	-9.000	-999.	44.	27.6	0.0460	0.32	1.00	0.50	131.0	15.0	289.0	2.0	0	0.00	68.	1009.	2	NAD-SFC	NoSubs
8	4	3	94	22	-2.5	0.079	-9.000	-9.000	-999.	54.	18.2	0.0460	0.32	1.00	1.00	144.0	15.0	287.8	2.0	0	0.00	74.	1010.	2	NAD-SFC	NoSubs
8	4	3	94	23	-4.3	0.093	-9.000	-9.000	-999.	69.	17.1	0.0380	0.32	1.00	1.50	150.0	15.0	286.9	2.0	0	0.00	78.	1010.	2	NAD-SFC	NoSubs
8	4	3	94	24	-2.4	0.078	-9.000	-9.000	-999.	52.	17.8	0.0380	0.32	1.00	1.00	164.0	15.0	286.1	2.0	0	0.00	81.	1010.	2	NAD-SFC	NoSubs
8	4	4	95	1	-1.1	0.070	-9.000	-9.000	-999.	45.	28.0	0.0510	0.32	1.00	0.50	115.0	15.0	285.6	2.0	0	0.00	82.	1010.	2	NAD-SFC	NoSubs
8	4	4	95	2	-1.1	0.070	-9.000	-9.000	-999.	45.	28.0	0.0510	0.32	1.00	0.50	101.0	15.0	284.9	2.0	0	0.00	84.	1010.	2	NAD-SFC	NoSubs
8	4	4	95	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	284.2	2.0	0	0.00	85.	1010.	3	NAD-SFC	NoSubs
8	4	4	95	4	-3.3	0.092	-9.000	-9.000	-999.	68.	21.4	0.1620	0.32	1.00	1.00	304.0	15.0	283.8	2.0	0	0.00	85.	1010.	3	NAD-SFC	NoSubs
8	4	4	95	5	-9.9	0.144	-9.000	-9.000	-999.	131.	27.1	0.0780	0.32	1.00	2.10	291.0	15.0	283.2	2.0	0	0.00	84.	1010.	3	NAD-SFC	NoSubs
8	4	4	95	6	-15.5	0.181	-9.000	-9.000	-999.	185.	34.8	0.0780	0.32	1.00	2.60	289.0	15.0	282.9	2.0	0	0.00	84.	1010.	3	NAD-SFC	NoSubs
8	4	4	95	7	1.5	0.191	0.080	0.006	12.	200.	-420.6	0.1620	0.32	0.37	2.10	315.0	15.0	283.1	2.0	0	0.00	83.	1010.	3	NAD-SFC	NoSubs
8	4	4	95	8	36.5	0.232	0.461	0.005	96.	268.	-30.9	0.1880	0.32	0.21	2.10	330.0	15.0	285.2	2.0	0	0.00	72.	1010.	3	NAD-SFC	NoSubs
8	4	4	95	9	68.6	0.144	0.758	0.006	228.	134.	-3.9	0.1620	0.32	0.16	1.00	328.0	15.0	287.1	2.0	0	0.00	63.	1010.	2	NAD-SFC	NoSubs
8	4	4	95	10	94.7	0.150	0.989	0.005	367.	139.	-3.2	0.1620	0.32	0.15	1.00	324.0	15.0	289.1	2.0	0	0.00	53.	1009.	2	NAD-SFC	NoSubs
8	4	4	95	11	112.7	0.153	1.233	0.005	599.	144.	-2.9	0.1620	0.32	0.14	1.00	315.0	15.0	290.6	2.0	0	0.00	49.	1009.	2	NAD-SFC	NoSubs
8	4	4	95	12	122.0	0.200	1.395	0.005	801.	215.	-5.9	0.1620	0.32	0.14	1.50	322.0	15.0	291.9	2.0	0	0.00	45.	1008.	2	NAD-SFC	NoSubs
8	4	4	95	13	122.3	0.259	1.486	0.006	965.	317.	-12.8	0.1880	0.32	0.14	2.10	333.0	15.0	293.1	2.0	0	0.00	41.	1007.	2	NAD-SFC	NoSubs
8	4	4	95	14	113.6	0.300	1.490	0.006	1046.	394.	-21.3	0.1880	0.32	0.14	2.60	345.0	15.0	293.8	2.0	0	0.00	39.	1006.	2	NAD-SFC	NoSubs
8	4	4	95	15	96.2	0.337	1.438	0.006	1108.	470.	-35.8	0.1880	0.32	0.15	3.10	346.0	15.0	294.2	2.0	0	0.00	38.	1005.	2	NAD-SFC	NoSubs
8	4	4	95	16	71.1	0.413	1.317	0.006	1152.	636.	-88.4	0.1880	0.32	0.16	4.10	350.0	15.0	294.8	2.0	0	0.00	43.	1004.	3	NAD-SFC	NoSubs
8	4	4	95	17	38.9	0.358	1.085	0.006	1175.	516.	-105.6	0.1880	0.32	0.21	3.60	352.0	15.0	294.4	2.0	0	0.00	51.	1004.	3	NAD-SFC	NoSubs
8	4	4	95	18	3.8	0.378	0.502	0.006	1175.	558.	-1260.2	0.1880	0.32	0.37	4.10	349.0	15.0	293.2	2.0	0	0.00	58.	1004.	3	NAD-SFC	NoSubs
8	4	4	95	19	-42.0	0.405	-9.000	-9.000	-999.	619.	141.8	0.1880	0.32	1.00	4.60	332.0	15.0	291.1	2.0	0	0.00	65.	1004.	3	NAD-SFC	NoSubs
8	4	4	95	20	-42.2	0.405	-9.000	-9.000	-999.	619.	140.9	0.1880	0.32	1.00	4.60	334.0	15.0	289.4	2.0	0	0.00	71.	1004.	3	NAD-SFC	NoSubs
8	4	4	95	21	-36.3	0.360	-9.000	-9.000	-999.	519.	114.7	0.1880	0.32	1.00	4.10	334.0	15.0	288.1	2.0	0	0.00	75.	1005.	4	NAD-SFC	NoSubs
8	4	4	95	22	-35.1	0.347	-9.000	-9.000	-999.	490.	106.2	0.1620	0.32	1.00	4.10	309.0	15.0	287.1	2.0	0	0.00	77.	1005.	4	NAD-SFC	NoSubs
8	4	4	95	23	-35.2	0.347	-9.000	-9.000	-999.	490.	105.8	0.1620	0.32	1.00	4.10	311.0	15.0	286.2	2.0	0	0.00	78.	1005.	4	NAD-SFC	NoSubs
8	4	4	95	24	-35.4	0.347	-9.000	-9.000	-999.	490.	105.4	0.1620	0.32	1.00	4.10	314.0	15.0	285.1	2.0	0	0.00	80.	1005.	4	NAD-SFC	NoSubs
8	4	5	96	1	-35.5	0.347	-9.000	-9.000	-999.	490.	105.0	0.1620	0.32	1.00	4.10	306.0	15.0	284.1	2.0	0	0.00	80.	1005.	4	NAD-SFC	NoSubs
8	4	5	96	2	-29.6	0.303	-9.000	-9.000	-999.	401.	84.2	0.1620	0.32	1.00	3.60	302.0	15.0	283.4	2.0	0	0.00	81.	1005.	5	NAD-SFC	NoSubs
8	4	5	96	3	-18.7	0.221	-9.000	-9.000	-999.	252.	51.8	0.0780	0.32	1.00	3.10	291.0	15.0	282.8	2.0	0	0.00	83.	1005.	7	NAD-SFC	NoSubs
8	4	5	96	4	-13.2	0.184	-9.000	-9.000	-999.	190.	42.3	0.0780	0.32	1.00	2.60	294.0	15.0	282.4	2.0	0	0.00	84.	1005.	8	NAD-SFC	NoSubs
8	4	5	96	5	-10.9	0.172	-9.000	-9.000	-999.	171.	41.8	0.1620	0.32	1.00	2.10	301.0	15.0	282.2	2.0	0	0.00	84.	1005.	8	NAD-SFC	NoSubs
8	4	5	96	6	-11.0	0.172	-9.000	-9.000	-999.	171.	41.8	0.1620	0.32	1.00	2.10	307.0	15.0	282.0	2.0	0	0.00	84.	1006.	8	NAD-SFC	NoSubs
8	4	5	96	7	3.6	0.245	0.190	0.007	67.	291.	-364.0	0.1880	0.32	0.37	2.60	335.0	15.0	282.1	2.0	0	0.00	82.	1006.	6	NAD-SFC	NoSubs
8	4	5	96	8	37.1	0.233	0.702	0.007	335.	269.	-30.4	0.1880	0.32	0.21	2.10	341.0	15.0	282.6	2.0	0	0.00	80.	1006.	4	NAD-SFC	NoSubs
8	4	5	96	9	68.6	0.149	0.955	0.007	455.	140.	-4.3	0.1880	0.32	0.16	1.00	338.0	15.0	282.9	2.0	0	0.00	79.	1006.	4	NAD-SFC	NoSubs
8	4	5	96	10	94.7	-9.000	-9.000	-9.000	550.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	283.8	2.0	0	0.00	76.	1006.	3	NAD-SFC	NoSubs
8	4	5	96	11	112.4	-9.000	-9.000	-9.000	646.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	285.2	2.0	0	0.00	69.	1005.	3	NAD-SFC	NoSubs
8	4	5	96	12	121.5	-9.000	-9.000	-9.000	748.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	286.9	2.0	0	0.00	62.	1004.	3	NAD-SFC	NoSubs
8	4	5	96	13	121.7	0.088	1.418	0.005	839.	63.	-1.0	0.0780	0.32	0.14	0.50	298.0	15.0	288.2	2.0	0	0.00	57.	1003.	3	NAD-SFC	NoSubs
8	4	5	96	14	113.2	0.205	1.425	0.005	916.	223.	-6.8	0.1880	0.32	0.14	1.50	334.0	15.0	289.2	2.0	0	0.00	52.	1003.	3	NAD-SFC	NoSubs
8	4	5	96	15	95.9	0.295	1.382	0.005	984.	385.	-24.0	0.1880	0.32	0.15	2.60	344.0	15.0	290.0	2.0	0	0.00	48.	1002.	3	NAD-SFC	NoSubs
8	4	5	96	16	70.6	0.371	1.289	0.006	1084.	542.	-64.4	0.1880	0.32	0.16	3.60	342.0	15.0	290.4	2.0	0	0.00	46.	1001.	3	NAD-SFC	NoSubs
8	4	5	96	17	38.5	0.443	1.069	0.006	1133.	707.	-201.1	0.1880	0.32	0.21	4.60	349.0	15.0	290.5	2.0	0	0.00	48.	1001.	3	NAD-SFC	NoSubs
8	4	5	96	18	3.6	0.333	0.484	0.006	1134.	470.	-927.8	0.1880	0.32	0.37	3.60	339.0	15.0	289.9	2.0	0	0.00	57.	1002.	3	NAD-SFC	NoSubs
8	4	5	96	19	-42.4	0.405	-9.000	-9.000	-999.	618.	140.2	0.1880	0.32	1.00	4.60	344.0	15.0	288.1	2.0	0	0.00	65.	1003.	3	NAD-SFC	NoSubs
8	4	5	96	20	-37.8	0.359	-9.000	-9.000	-999.	518.	109.8	0.1880	0.32	1.00	4.10	338.0	15.0	286.8	2.0	0	0.00	70.	1003.	3	NAD-SFC	NoSubs
8	4	5	96	21	-33.1	0.314	-9.000	-9.000	-999.	423.	83.5	0.1880	0.32	1.00	3.60	350.0	15.0	286.0	2.0	0	0.00	71.	1004.	3	NAD-SFC	NoSubs
8	4	5	96	22	-28.4	0.269	-9.000	-9.000	-999.	335.	61.2	0.1900	0.32	1.00	3.10	2.0	15.0	285.5	2.0	0	0.00	71.	1005.	3	NAD-SFC	NoSubs
8	4	5	96	23	-21.1	0.222	-9.000	-9.000	-999.	252.	46.6	0.1880	0.32	1.00	2.60	353.0	15.0	284.8	2.0	0	0.00	73.	1005.	3	NAD-SFC	NoSubs
8	4	5	96	24	-28.5	0.268	-9.000	-9.000	-999.	333.	60.5	0.1880	0.32	1.00	3.10	336.0	15.0	283.9	2.0	0	0.00	76.	1005.	3	NAD-SFC	NoSubs
8	4	6	97	1	-21.2	0.222	-9.000	-9.000	-999.	252.	46.4	0.1880	0.32	1.00	2.60	343.0	15.0	283.1	2.0	0	0.00	78.	1006.	3	NAD-SFC	NoSubs
8	4	6	97	2	-6.9	0.125	-9.000	-9.000	-999.	110.	25.3	0.1880	0.32	1.00	1.50	353.0	15.0	282.5	2.0	0	0.00	81.	1006.	3	NAD-SFC	NoSubs
8	4	6	97	3	-3.5	0.095	-9.000	-9.000	-999.	70.	21.9	0.1880	0.32	1.00	1.00	353.0	15.0	282.0	2.0	0	0.00	82.	1006.	3	NAD-SFC	NoSubs
8	4	6	97	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	281.5	2.0	0	0.00	84.	1007.	3	NAD-SFC	NoSubs
8	4	6	97	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	281.1	2.0	0	0.00	86.	1007.	3	NAD-SFC	NoSubs
8	4	6	97	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	280.8	2.0	0	0.00	87.	1008.	3	NAD-SFC	NoSubs
8	4	6	97	7	2.7	-9.000	-9.000	-9.000	44.	-999.	-99999.0	0.0879	0.32	0.36	0.00	0.0	15.0	281.0	2.0	0	0.00	87.	1008.	3	NAD-SFC	NoSubs
8	4	6	97	8	37.8	-9.000	-9.000	-9.000	289.	-999.	-99999.0	0.0879	0.32	0.21	0.00	0.0	15.0	282.5	2.0	0	0.00	80.	1008.	3	NAD-SFC	NoSubs
8	4	6	97	9	70.0	-9.000	-9.000	-9.000	449.	-999.	-99999.0	0.0879	0.32	0.16	0.00	0.0	15.0	283.4	2.0	0	0.00	75.	1008.	3	NAD-SFC	NoSubs
8	4	6	97	10	95.5	0.073	1.142	0.007	561.	47.	-1.0	0.0330	0.32	0.15	0.50	198.0	15.0	284.8	2.0	0	0.00	69.	1008.	3	NAD-SFC	NoSubs
8	4	6	97	11	113.3	-9.000	-9.000	-9.000	673.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	286.8	2.0	0	0.00	60.	1007.	3	NAD-SFC	NoSubs
8	4	6	97	12	122.3	-9.000	-9.000	-9.000	789.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	288.4	2.0	0	0.00	55.	1007.	3	NAD-SFC	NoSubs
8	4	6	97	13	122.5	0.134	1.448	0.009	891.	118.	-1.8	0.0780	0.32	0.14	1.00	296.0	15.0	289.8	2.0	0	0.00	51.	1006.	3	NAD-SFC	NoSubs
8	4	6	97	14	113.9	0.199	1.457	0.010	975.	213.	-6.2	0.1620	0.32	0.14	1.50	327.0	15.0	290.8	2.0	0	0.00	47.	1006.	3	NAD-SFC	NoSubs
8	4	6	97	15	96.7	0.337	1.402	0.010	1023.	470.	-35.6	0.1880	0.32	0.15	3.10	341.0	15.0	291.4	2.0	0	0.00	45.	1005.	3	NAD-SFC	NoSubs
8	4	6	97	16	71.3	0.413	1.281	0.010	1057.	636.	-88.3	0.1880	0.32	0.16	4.10	346.0	15.0	291.8	2.0	0	0.00	45.	1005.	3	NAD-SFC	NoSubs
8	4	6	97	17	39.2	0.443	1.055	0.011	1074.	707.	-198.7	0.1880	0.32	0.21	4.60	359.0	15.0	291.5	2.0	0	0.00	49.	1005.	3	NAD-SFC	NoSubs
8	4	6	97	18	5.0	0.335	0.530	0.011	1075.	473.	-678.5	0.1880	0.32	0.36	3.60	353.0	15.0	290.8	2.0	0	0.00	59.	1005.	4	NAD-SFC	NoSubs
8	4	6	97	19	-40.9	0.405	-9.000	-9.000	-999.	619.	146.2	0.1880	0.32	1.00	4.60	340.0	15.0	288.9	2.0	0	0.00	68.	1006.	4	NAD-SFC	NoSubs
8	4	6	97	20	-43.5	0.452	-9.000	-9.000	-999.	728.	190.1	0.1880	0.32	1.00	5.10	344.0	15.0	287.8	2.0	0	0.00	75.	1006.	5	NAD-SFC	NoSubs
8	4	6	97	21	-49.0	0.507	-9.000	-9.000	-999.	866.	239.0	0.1880	0.32	1.00	5.70	338.0	15.0	286.9	2.0	0	0.00	75.	1007.	5	NAD-SFC	NoSubs
8	4	6	97	22	-43.8	0.452	-9.000	-9.000	-999.	732.	189.0	0.1880	0.32	1.00	5.10	343.0	15.0	286.1	2.0	0	0.00	76.	1007.	5	NAD-SFC	NoSubs
8	4	6	97	23	-35.1	0.360	-9.000	-9.000	-999.	524.	119.4	0.1880	0.32	1.00	4.10	332.0	15.0	284.8	2.0	0	0.00	81.	1008.	5	NAD-SFC	NoSubs

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 8  4  6  97 24  -29.6  0.303 -9.000 -9.000 -999.  402.     84.3  0.1620  0.32  1.00   3.60  325.0  15.0  283.8  2.0   0  0.00   85.  1008.    5 NAD-SFC NoSubs
 8  4  7  98  1  -31.2  0.303 -9.000 -9.000 -999.  399.     79.7  0.1620  0.32  1.00   3.60  319.0  15.0  283.0  2.0   0  0.00   88.  1008.    4 NAD-SFC NoSubs
 8  4  7  98  2  -27.7  0.258 -9.000 -9.000 -999.  316.     55.8  0.1620  0.32  1.00   3.10  329.0  15.0  282.4  2.0   0  0.00   91.  1008.    3 NAD-SFC NoSubs
 8  4  7  98  3  -27.8  0.258 -9.000 -9.000 -999.  315.     55.7  0.1620  0.32  1.00   3.10  328.0  15.0  281.9  2.0   0  0.00   92.  1009.    3 NAD-SFC NoSubs
 8  4  7  98  4  -19.7  0.214 -9.000 -9.000 -999.  238.     44.8  0.1620  0.32  1.00   2.60  326.0  15.0  281.4  2.0   0  0.00   93.  1009.    4 NAD-SFC NoSubs
 8  4  7  98  5  -19.7  0.214 -9.000 -9.000 -999.  238.     44.8  0.1620  0.32  1.00   2.60  319.0  15.0  280.9  2.0   0  0.00   94.  1009.    4 NAD-SFC NoSubs
 8  4  7  98  6  -12.7  0.170 -9.000 -9.000 -999.  168.     34.9  0.1620  0.32  1.00   2.10  318.0  15.0  280.6  2.0   0  0.00   94.  1010.    4 NAD-SFC NoSubs
 8  4  7  98  7    4.7  0.247  0.197  0.005   58.  294.   -286.8  0.1880  0.32  0.36   2.60  330.0  15.0  280.8  2.0   0  0.00   91.  1010.    5 NAD-SFC NoSubs
 8  4  7  98  8   38.5  0.275  0.681  0.005  295.  345.    -48.4  0.1880  0.32  0.20   2.60  347.0  15.0  281.5  2.0   0  0.00   85.  1010.    4 NAD-SFC NoSubs
 8  4  7  98  9   70.6  0.149  0.972  0.005  468.  148.     -4.2  0.1880  0.32  0.16   1.00  344.0  15.0  282.8  2.0   0  0.00   77.  1010.    3 NAD-SFC NoSubs
 8  4  7  98 10   96.1 -9.000 -9.000 -9.000  604. -999. -99999.0  0.0879  0.32  0.15   0.00    0.0  15.0  284.2  2.0   0  0.00   71.  1009.    3 NAD-SFC NoSubs
 8  4  7  98 11  113.7 -9.000 -9.000 -9.000  745. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  285.8  2.0   0  0.00   64.  1009.    2 NAD-SFC NoSubs
 8  4  7  98 12  122.8 -9.000 -9.000 -9.000  879. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  287.2  2.0   0  0.00   57.  1008.    2 NAD-SFC NoSubs
 8  4  7  98 13  123.0 -9.000 -9.000 -9.000  990. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  288.8  2.0   0  0.00   49.  1007.    2 NAD-SFC NoSubs
 8  4  7  98 14  114.2  0.153  1.500  0.008 1062.  144.     -2.8  0.1620  0.32  0.14   1.00  312.0  15.0  289.8  2.0   0  0.00   42.  1006.    3 NAD-SFC NoSubs
 8  4  7  98 15   96.8  0.196  1.445  0.009 1120.  208.     -6.9  0.1620  0.32  0.15   1.50  317.0  15.0  290.5  2.0   0  0.00   37.  1006.    2 NAD-SFC NoSubs
 8  4  7  98 16   71.2  0.288  1.321  0.009 1161.  371.    -30.1  0.1880  0.32  0.16   2.60  337.0  15.0  290.9  2.0   0  0.00   34.  1005.    2 NAD-SFC NoSubs
 8  4  7  98 17   38.8  0.316  1.086  0.009 1182.  427.    -73.0  0.1880  0.32  0.21   3.10  344.0  15.0  290.8  2.0   0  0.00   34.  1005.    2 NAD-SFC NoSubs
 8  4  7  98 18    3.5  0.245  0.486  0.009 1183.  293.   -379.0  0.1880  0.32  0.36   2.60  337.0  15.0  290.2  2.0   0  0.00   42.  1005.    2 NAD-SFC NoSubs
 8  4  7  98 19  -33.6  0.314 -9.000 -9.000 -999.  421.     82.2  0.1880  0.32  1.00   3.60  332.0  15.0  289.2  2.0   0  0.00   46.  1006.    2 NAD-SFC NoSubs
 8  4  7  98 20  -33.8  0.314 -9.000 -9.000 -999.  421.     81.8  0.1880  0.32  1.00   3.60  330.0  15.0  287.9  2.0   0  0.00   50.  1006.    2 NAD-SFC NoSubs
 8  4  7  98 21  -27.9  0.258 -9.000 -9.000 -999.  316.     55.2  0.1620  0.32  1.00   3.10  318.0  15.0  286.8  2.0   0  0.00   54.  1006.    2 NAD-SFC NoSubs
 8  4  7  98 22  -28.1  0.258 -9.000 -9.000 -999.  315.     55.0  0.1620  0.32  1.00   3.10  309.0  15.0  285.6  2.0   0  0.00   57.  1007.    2 NAD-SFC NoSubs
 8  4  7  98 23  -20.2  0.214 -9.000 -9.000 -999.  238.     43.5  0.1620  0.32  1.00   2.60  317.0  15.0  284.4  2.0   0  0.00   61.  1007.    2 NAD-SFC NoSubs
 8  4  7  98 24  -20.2  0.214 -9.000 -9.000 -999.  237.     43.4  0.1620  0.32  1.00   2.60  328.0  15.0  283.2  2.0   0  0.00   67.  1007.    2 NAD-SFC NoSubs
 8  4  8  99  1  -12.9  0.169 -9.000 -9.000 -999.  168.     33.8  0.1620  0.32  1.00   2.10  328.0  15.0  282.6  2.0   0  0.00   71.  1007.    2 NAD-SFC NoSubs
 8  4  8  99  2   -7.0  0.125 -9.000 -9.000 -999.  106.     25.0  0.1880  0.32  1.00   1.50  333.0  15.0  282.2  2.0   0  0.00   74.  1007.    2 NAD-SFC NoSubs
 8  4  8  99  3   -1.5  0.081 -9.000 -9.000 -999.   55.     31.5  0.1880  0.32  1.00   0.50  344.0  15.0  282.0  2.0   0  0.00   75.  1006.    2 NAD-SFC NoSubs
 8  4  8  99  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00   0.00    0.0  15.0  281.8  2.0   0  0.00   77.  1006.    3 NAD-SFC NoSubs
 8  4  8  99  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00   0.00    0.0  15.0  281.6  2.0   0  0.00   78.  1006.    3 NAD-SFC NoSubs
 8  4  8  99  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00   0.00    0.0  15.0  281.2  2.0   0  0.00   79.  1007.    3 NAD-SFC NoSubs
 8  4  8  99  7    4.3  0.058  0.181  0.005   49.   33.     -4.1  0.0780  0.32  0.35   0.50  292.0  15.0  281.5  2.0   0  0.00   79.  1007.    3 NAD-SFC NoSubs
 8  4  8  99  8   39.5  0.183  0.665  0.006  267.  188.    -14.0  0.1880  0.32  0.20   1.50  335.0  15.0  283.5  2.0   0  0.00   70.  1007.    3 NAD-SFC NoSubs
 8  4  8  99  9   71.6  0.195  0.944  0.006  422.  206.     -9.2  0.1880  0.32  0.16   1.50  332.0  15.0  284.8  2.0   0  0.00   63.  1007.    3 NAD-SFC NoSubs
 8  4  8  99 10   97.1  0.196  1.155  0.006  570.  208.     -6.9  0.1620  0.32  0.15   1.50  317.0  15.0  286.1  2.0   0  0.00   55.  1006.    3 NAD-SFC NoSubs
 8  4  8  99 11  113.0  0.250  1.302  0.006  701.  300.    -12.4  0.1620  0.32  0.14   2.10  323.0  15.0  287.2  2.0   0  0.00   49.  1006.    4 NAD-SFC NoSubs
 8  4  8  99 12  123.4  0.344  1.409  0.005  813.  484.    -29.5  0.1880  0.32  0.14   3.10  332.0  15.0  288.4  2.0   0  0.00   42.  1005.    3 NAD-SFC NoSubs
 8  4  8  99 13  123.4  0.414  1.464  0.006  912.  639.    -51.5  0.1620  0.32  0.14   4.10  328.0  15.0  289.2  2.0   0  0.00   38.  1004.    3 NAD-SFC NoSubs
 8  4  8  99 14  114.7  0.508  1.474  0.006 1001.  869.   -102.4  0.1880  0.32  0.14   5.10  340.0  15.0  289.6  2.0   0  0.00   37.  1003.    3 NAD-SFC NoSubs
 8  4  8  99 15   97.2  0.555  1.431  0.006 1080.  991.   -157.1  0.1880  0.32  0.15   5.70  344.0  15.0  289.8  2.0   0  0.00   38.  1003.    3 NAD-SFC NoSubs
 8  4  8  99 16   71.8  0.634  1.315  0.007 1135. 1210.   -317.7  0.1880  0.32  0.16   6.70  336.0  15.0  289.6  2.0   0  0.00   40.  1003.    3 NAD-SFC NoSubs
 8  4  8  99 17   39.6  0.582  1.089  0.007 1163. 1069.   -443.3  0.1880  0.32  0.20   6.20  338.0  15.0  289.0  2.0   0  0.00   45.  1002.    3 NAD-SFC NoSubs
 8  4  8  99 18    4.5  0.424  0.526  0.007 1164.  685.  -1522.8  0.1880  0.32  0.36   4.60  337.0  15.0  287.9  2.0   0  0.00   57.  1003.    3 NAD-SFC NoSubs
 8  4  8  99 19  -41.1  0.405 -9.000 -9.000 -999.  620.    144.9  0.1880  0.32  1.00   4.60  335.0  15.0  286.5  2.0   0  0.00   62.  1004.    4 NAD-SFC NoSubs
 8  4  8  99 20  -44.3  0.435 -9.000 -9.000 -999.  688.    166.4  0.1620  0.32  1.00   5.10  321.0  15.0  285.8  2.0   0  0.00   64.  1004.    4 NAD-SFC NoSubs
 8  4  8  99 21  -47.5  0.489 -9.000 -9.000 -999.  819.    220.6  0.1620  0.32  1.00   5.70  305.0  15.0  285.1  2.0   0  0.00   69.  1005.    5 NAD-SFC NoSubs
 8  4  8  99 22  -40.7  0.416 -9.000 -9.000 -999.  649.    159.0  0.0780  0.32  1.00   5.70  296.0  15.0  283.6  2.0   0  0.00   74.  1006.    5 NAD-SFC NoSubs
 8  4  8  99 23  -34.1  0.371 -9.000 -9.000 -999.  544.    134.3  0.0780  0.32  1.00   5.10  296.0  15.0  282.2  2.0   0  0.00   78.  1006.    6 NAD-SFC NoSubs
 8  4  8  99 24  -19.7  0.351 -9.000 -9.000 -999.  499.    196.3  0.1620  0.32  1.00   4.10  310.0  15.0  281.5  2.0   0  0.00   82.  1006.   10 NAD-SFC NoSubs
 8  4  9 100  1  -25.8  0.304 -9.000 -9.000 -999.  403.     97.3  0.1620  0.32  1.00   3.60  300.0  15.0  281.0  2.0   0  0.00   83.  1006.    7 NAD-SFC NoSubs
 8  4  9 100  2  -24.0  0.259 -9.000 -9.000 -999.  318.     65.1  0.1620  0.32  1.00   3.10  304.0  15.0  280.5  2.0   0  0.00   85.  1006.    6 NAD-SFC NoSubs
 8  4  9 100  3  -14.9  0.182 -9.000 -9.000 -999.  188.     36.4  0.0780  0.32  1.00   2.60  298.0  15.0  280.1  2.0   0  0.00   86.  1006.    5 NAD-SFC NoSubs
 8  4  9 100  4  -14.9  0.182 -9.000 -9.000 -999.  186.     36.3  0.0780  0.32  1.00   2.60  288.0  15.0  279.8  2.0   0  0.00   86.  1006.    5 NAD-SFC NoSubs
 8  4  9 100  5   -4.5  0.103 -9.000 -9.000 -999.   81.     21.6  0.0780  0.32  1.00   1.50  294.0  15.0  279.8  2.0   0  0.00   86.  1006.    7 NAD-SFC NoSubs
 8  4  9 100  6   -4.5  0.103 -9.000 -9.000 -999.   79.     21.6  0.0780  0.32  1.00   1.50  298.0  15.0  279.8  2.0   0  0.00   86.  1007.    7 NAD-SFC NoSubs
 8  4  9 100  7    6.1  0.156  0.224  0.005   66.  148.    -56.3  0.1880  0.32  0.34   1.50  334.0  15.0  280.1  2.0   0  0.00   84.  1007.    5 NAD-SFC NoSubs
 8  4  9 100  8   40.0  0.183  0.714  0.005  327.  189.    -13.9  0.1880  0.32  0.20   1.50  346.0  15.0  280.6  2.0   0  0.00   83.  1008.    4 NAD-SFC NoSubs
 8  4  9 100  9   71.3  0.098  1.018  0.005  532.   76.     -1.2  0.1900  0.32  0.16   0.50   14.0  15.0  281.2  2.0   0  0.00   81.  1008.    4 NAD-SFC NoSubs
 8  4  9 100 10   97.1 -9.000 -9.000 -9.000  708. -999. -99999.0  0.0879  0.32  0.15   0.00    0.0  15.0  281.8  2.0   0  0.00   78.  1008.    3 NAD-SFC NoSubs
 8  4  9 100 11  114.5 -9.000 -9.000 -9.000  857. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  283.2  2.0   0  0.00   71.  1007.    3 NAD-SFC NoSubs
 8  4  9 100 12  123.4 -9.000 -9.000 -9.000  986. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  285.2  2.0   0  0.00   61.  1006.    3 NAD-SFC NoSubs
 8  4  9 100 13  123.5  0.105  1.540  0.007 1062.   82.     -1.0  0.1880  0.32  0.14   0.50  331.0  15.0  286.9  2.0   0  0.00   54.  1005.    3 NAD-SFC NoSubs
 8  4  9 100 14  114.9  0.205  1.534  0.007 1127.  223.     -6.7  0.1880  0.32  0.14   1.50  343.0  15.0  288.2  2.0   0  0.00   48.  1005.    3 NAD-SFC NoSubs
 8  4  9 100 15   97.6  0.338  1.476  0.007 1181.  471.    -35.3  0.1880  0.32  0.15   3.10  348.0  15.0  289.2  2.0   0  0.00   45.  1004.    3 NAD-SFC NoSubs
 8  4  9 100 16   72.5  0.548  1.352  0.007 1221.  974.   -203.4  0.1880  0.32  0.16   5.70  338.0  15.0  290.8  2.0   0  0.00   38.  1003.    3 NAD-SFC NoSubs
 8  4  9 100 17   40.4  0.486  1.119  0.007 1241.  818.   -254.7  0.1880  0.32  0.20   5.10  338.0  15.0  290.5  2.0   0  0.00   44.  1003.    3 NAD-SFC NoSubs
 8  4  9 100 18    4.2  0.379  0.527  0.007 1241.  568.  -1154.8  0.1880  0.32  0.35   4.10  331.0  15.0  289.6  2.0   0  0.00   54.  1004.    2 NAD-SFC NoSubs
 8  4  9 100 19  -38.6  0.359 -9.000 -9.000 -999.  517.    107.4  0.1880  0.32  1.00   4.10  332.0  15.0  288.1  2.0   0  0.00   59.  1004.    2 NAD-SFC NoSubs
 8  4  9 100 20  -36.4  0.346 -9.000 -9.000 -999.  489.    102.1  0.1620  0.32  1.00   4.10  324.0  15.0  287.1  2.0   0  0.00   62.  1004.    3 NAD-SFC NoSubs
 8  4  9 100 21  -31.9  0.302 -9.000 -9.000 -999.  400.     77.7  0.1620  0.32  1.00   3.60  319.0  15.0  286.5  2.0   0  0.00   63.  1005.    3 NAD-SFC NoSubs
 8  4  9 100 22  -19.8  0.214 -9.000 -9.000 -999.  241.     44.3  0.1620  0.32  1.00   2.60  313.0  15.0  285.9  2.0   0  0.00   64.  1005.    3 NAD-SFC NoSubs
 8  4  9 100 23   -6.4  0.120 -9.000 -9.000 -999.  104.     24.3  0.1620  0.32  1.00   1.50  302.0  15.0  285.2  2.0   0  0.00   65.  1006.    3 NAD-SFC NoSubs
 8  4  9 100 24   -1.2  0.072 -9.000 -9.000 -999.   47.     28.8  0.0780  0.32  1.00   0.50  276.0  15.0  284.8  2.0   0  0.00   67.  1005.    3 NAD-SFC NoSubs
 8  4 10 101  1   -1.0  0.067 -9.000 -9.000 -999.   42.     26.8  0.0340  0.32  1.00   0.50  226.0  15.0  284.0  2.0   0  0.00   70.  1006.    3 NAD-SFC NoSubs
 8  4 10 101  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00   0.00    0.0  15.0  283.5  2.0   0  0.00   72.  1006.    3 NAD-SFC NoSubs
 8  4 10 101  3   -1.5  0.080 -9.000 -9.000 -999.   54.     31.1  0.1880  0.32  1.00   0.50  330.0  15.0  283.1  2.0   0  0.00   74.  1006.    3 NAD-SFC NoSubs
 8  4 10 101  4   -1.4  0.078 -9.000 -9.000 -999.   53.     30.8  0.1620  0.32  1.00   0.50  326.0  15.0  282.6  2.0   0  0.00   76.  1006.    3 NAD-SFC NoSubs
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 8  4 10 101  5   -1.4  0.079 -9.000 -9.000 -999.   54.     31.1  0.1620  0.32  1.00  0.50  304.0  15.0  282.1  2.0   0  0.00   79.  1006.   2 NAD-SFC NoSubs
 8  4 10 101  6   -1.0  0.067 -9.000 -9.000 -999.   42.     26.9  0.0310  0.32  1.00  0.50  260.0  15.0  281.8  2.0   0  0.00   81.  1007.   2 NAD-SFC NoSubs
 8  4 10 101  7    4.9  0.050  0.171  0.007   37.   27.     -2.3  0.0310  0.32  0.34  0.50  265.0  15.0  282.2  2.0   0  0.00   80.  1007.   2 NAD-SFC NoSubs
 8  4 10 101  8   40.6  0.076  0.649  0.006  242.   50.     -1.0  0.0780  0.32  0.20  0.50  290.0  15.0  284.4  2.0   0  0.00   73.  1008.   2 NAD-SFC NoSubs
 8  4 10 101  9   72.9 -9.000 -9.000 -9.000  368. -999. -99999.0  0.0879  0.32  0.16  0.00    0.0  15.0  286.1  2.0   0  0.00   65.  1008.   2 NAD-SFC NoSubs
 8  4 10 101 10   98.5 -9.000 -9.000 -9.000  525. -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0  287.8  2.0   0  0.00   57.  1008.   2 NAD-SFC NoSubs
 8  4 10 101 11  116.2  0.074  1.296  0.006  674.   48.     -1.0  0.0310  0.32  0.14  0.50  254.0  15.0  289.4  2.0   0  0.00   50.  1007.   2 NAD-SFC NoSubs
 8  4 10 101 12  125.1  0.088  1.414  0.007  812.   63.     -1.0  0.0780  0.32  0.14  0.50  286.0  15.0  291.2  2.0   0  0.00   42.  1007.   2 NAD-SFC NoSubs
 8  4 10 101 13  125.2  0.088  1.480  0.008  930.   63.     -1.0  0.0780  0.32  0.14  0.50  299.0  15.0  292.5  2.0   0  0.00   38.  1006.   2 NAD-SFC NoSubs
 8  4 10 101 14  116.5  0.159  1.487  0.008 1013.  152.     -3.1  0.1880  0.32  0.14  1.00  334.0  15.0  293.4  2.0   0  0.00   36.  1005.   2 NAD-SFC NoSubs
 8  4 10 101 15   98.9  0.254  1.433  0.008 1069.  308.    -14.9  0.1880  0.32  0.15  2.10  354.0  15.0  293.9  2.0   0  0.00   36.  1005.   2 NAD-SFC NoSubs
 8  4 10 101 16   73.3  0.330  1.313  0.009 1108.  456.    -44.1  0.1880  0.32  0.16  3.10  352.0  15.0  294.1  2.0   0  0.00   36.  1005.   2 NAD-SFC NoSubs
 8  4 10 101 17   41.0  0.318  1.089  0.009 1129.  430.    -70.3  0.1900  0.32  0.20  3.10    3.0  15.0  294.0  2.0   0  0.00   38.  1005.   2 NAD-SFC NoSubs
 8  4 10 101 18    5.5  0.206  0.558  0.009 1131.  230.   -141.6  0.1880  0.32  0.35  2.10  351.0  15.0  293.6  2.0   0  0.00   44.  1005.   2 NAD-SFC NoSubs
 8  4 10 101 19   -6.8  0.125 -9.000 -9.000 -999.  108.     25.4  0.1880  0.32  1.00  1.50  348.0  15.0  292.8  2.0   0  0.00   47.  1006.   2 NAD-SFC NoSubs
 8  4 10 101 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  291.4  2.0   0  0.00   52.  1006.   2 NAD-SFC NoSubs
 8  4 10 101 21   -1.0  0.068 -9.000 -9.000 -999.   42.     27.1  0.0380  0.32  1.00  0.50  166.0  15.0  290.0  2.0   0  0.00   59.  1006.   2 NAD-SFC NoSubs
 8  4 10 101 22   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0460  0.32  1.00  0.50  129.0  15.0  288.8  2.0   0  0.00   65.  1007.   2 NAD-SFC NoSubs
 8  4 10 101 23   -4.6  0.097 -9.000 -9.000 -999.   73.     18.1  0.0510  0.32  1.00  1.50  115.0  15.0  287.9  2.0   0  0.00   69.  1007.   2 NAD-SFC NoSubs
 8  4 10 101 24   -8.8  0.133 -9.000 -9.000 -999.  116.     23.9  0.0510  0.32  1.00  2.10  107.0  15.0  287.2  2.0   0  0.00   71.  1007.   2 NAD-SFC NoSubs
 8  4 11 102  1   -4.6  0.098 -9.000 -9.000 -999.   73.     18.1  0.0510  0.32  1.00  1.50  116.0  15.0  286.8  2.0   0  0.00   72.  1007.   2 NAD-SFC NoSubs
 8  4 11 102  2   -1.1  0.070 -9.000 -9.000 -999.   45.     28.0  0.0510  0.32  1.00  0.50  118.0  15.0  286.0  2.0   0  0.00   75.  1007.   2 NAD-SFC NoSubs
 8  4 11 102  3   -1.0  0.067 -9.000 -9.000 -999.   42.     26.9  0.0330  0.32  1.00  0.50  200.0  15.0  285.4  2.0   0  0.00   77.  1007.   2 NAD-SFC NoSubs
 8  4 11 102  4   -4.1  0.091 -9.000 -9.000 -999.   66.     16.4  0.0310  0.32  1.00  1.50  259.0  15.0  285.1  2.0   0  0.00   77.  1007.   2 NAD-SFC NoSubs
 8  4 11 102  5  -10.0  0.144 -9.000 -9.000 -999.  131.     26.8  0.0780  0.32  1.00  2.10  271.0  15.0  284.9  2.0   0  0.00   77.  1008.   2 NAD-SFC NoSubs
 8  4 11 102  6  -15.6  0.181 -9.000 -9.000 -999.  185.     34.4  0.0780  0.32  1.00  2.60  273.0  15.0  284.8  2.0   0  0.00   76.  1009.   2 NAD-SFC NoSubs
 8  4 11 102  7    6.0  0.210  0.176  0.007   32.  231.   -137.7  0.0780  0.32  0.33  2.60  285.0  15.0  285.2  2.0   0  0.00   73.  1009.   2 NAD-SFC NoSubs
 8  4 11 102  8   41.8  0.199  0.506  0.007  111.  213.    -16.9  0.0780  0.32  0.20  2.10  291.0  15.0  287.4  2.0   0  0.00   60.  1009.   2 NAD-SFC NoSubs
 8  4 11 102  9   74.3  0.165  0.810  0.007  257.  161.     -5.5  0.0780  0.32  0.16  1.50  282.0  15.0  289.8  2.0   0  0.00   52.  1009.   2 NAD-SFC NoSubs
 8  4 11 102 10  100.0  0.112  1.051  0.007  418.   90.     -1.2  0.0310  0.32  0.15  1.00  261.0  15.0  292.1  2.0   0  0.00   42.  1009.   2 NAD-SFC NoSubs
 8  4 11 102 11  117.8 -9.000 -9.000 -9.000  566. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  294.1  2.0   0  0.00   36.  1009.   2 NAD-SFC NoSubs
 8  4 11 102 12  126.8 -9.000 -9.000 -9.000  692. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  296.0  2.0   0  0.00   32.  1008.   2 NAD-SFC NoSubs
 8  4 11 102 13  127.0  0.102  1.412  0.008  798.   78.     -1.0  0.1620  0.32  0.14  0.50  326.0  15.0  297.6  2.0   0  0.00   29.  1007.   2 NAD-SFC NoSubs
 8  4 11 102 14  118.3  0.159  1.428  0.008  885.  152.     -3.1  0.1880  0.32  0.14  1.00  345.0  15.0  298.8  2.0   0  0.00   27.  1007.   2 NAD-SFC NoSubs
 8  4 11 102 15  100.9  0.203  1.389  0.008  954.  219.     -7.4  0.1880  0.32  0.15  1.50  336.0  15.0  299.6  2.0   0  0.00   25.  1006.   2 NAD-SFC NoSubs
 8  4 11 102 16   75.4  0.289  1.279  0.008  996.  373.    -28.8  0.1880  0.32  0.16  2.60  347.0  15.0  299.9  2.0   0  0.00   25.  1006.   2 NAD-SFC NoSubs
 8  4 11 102 17   42.8 -9.000 -9.000 -9.000 1016. -999. -99999.0  0.0879  0.32  0.20  0.00    0.0  15.0  299.1  2.0   0  0.00   34.  1006.   2 NAD-SFC NoSubs
 8  4 11 102 18    6.9  0.427  0.581  0.007 1017.  669.  -1007.8  0.1900  0.32  0.35  4.60   16.0  15.0  297.4  2.0   0  0.00   45.  1006.   2 NAD-SFC NoSubs
 8  4 11 102 19  -34.4  0.328 -9.000 -9.000 -999.  457.     91.8  0.1280  0.32  1.00  4.10   45.0  15.0  295.8  2.0   0  0.00   51.  1007.   2 NAD-SFC NoSubs
 8  4 11 102 20  -15.2  0.181 -9.000 -9.000 -999.  200.     34.8  0.0760  0.32  1.00  2.60   82.0  15.0  294.8  2.0   0  0.00   52.  1007.   2 NAD-SFC NoSubs
 8  4 11 102 21  -12.5  0.158 -9.000 -9.000 -999.  151.     28.6  0.0380  0.32  1.00  2.60  152.0  15.0  293.8  2.0   0  0.00   53.  1008.   2 NAD-SFC NoSubs
 8  4 11 102 22  -27.4  0.258 -9.000 -9.000 -999.  314.     56.2  0.0380  0.32  1.00  4.10  170.0  15.0  292.9  2.0   0  0.00   48.  1008.   2 NAD-SFC NoSubs
 8  4 11 102 23  -27.4  0.258 -9.000 -9.000 -999.  314.     56.0  0.0380  0.32  1.00  4.10  178.0  15.0  292.0  2.0   0  0.00   42.  1008.   2 NAD-SFC NoSubs
 8  4 11 102 24  -18.0  0.191 -9.000 -9.000 -999.  202.     34.9  0.0380  0.32  1.00  3.10  173.0  15.0  291.0  2.0   0  0.00   40.  1008.   2 NAD-SFC NoSubs
 8  4 12 103  1   -4.3  0.093 -9.000 -9.000 -999.   73.     17.1  0.0380  0.32  1.00  1.50  173.0  15.0  290.1  2.0   0  0.00   42.  1008.   2 NAD-SFC NoSubs
 8  4 12 103  2   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0460  0.32  1.00  0.50  142.0  15.0  289.5  2.0   0  0.00   45.  1008.   2 NAD-SFC NoSubs
 8  4 12 103  3   -1.5  0.080 -9.000 -9.000 -999.   54.     31.2  0.1900  0.32  1.00  0.50   22.0  15.0  288.9  2.0   0  0.00   50.  1008.   2 NAD-SFC NoSubs
 8  4 12 103  4   -1.5  0.080 -9.000 -9.000 -999.   54.     31.2  0.1880  0.32  1.00  0.50  351.0  15.0  288.1  2.0   0  0.00   55.  1008.   2 NAD-SFC NoSubs
 8  4 12 103  5   -1.5  0.080 -9.000 -9.000 -999.   54.     31.3  0.1880  0.32  1.00  0.50  344.0  15.0  287.4  2.0   0  0.00   58.  1009.   2 NAD-SFC NoSubs
 8  4 12 103  6   -1.5  0.080 -9.000 -9.000 -999.   55.     31.3  0.1880  0.32  1.00  0.50  347.0  15.0  286.8  2.0   0  0.00   59.  1009.   2 NAD-SFC NoSubs
 8  4 12 103  7    7.0  0.116  0.172  0.008   26.   95.    -20.1  0.1880  0.32  0.33  1.00  356.0  15.0  286.8  2.0   0  0.00   60.  1010.   2 NAD-SFC NoSubs
 8  4 12 103  8   43.0  0.119  0.501  0.008  105.   98.     -3.5  0.0780  0.32  0.20  1.00  299.0  15.0  289.8  2.0   0  0.00   48.  1010.   2 NAD-SFC NoSubs
 8  4 12 103  9   75.5  0.146  0.824  0.005  267.  134.     -3.7  0.1620  0.32  0.16  1.00  301.0  15.0  292.4  2.0   0  0.00   40.  1010.   2 NAD-SFC NoSubs
 8  4 12 103 10  101.4  0.102  1.061  0.005  425.   79.     -1.0  0.1880  0.32  0.15  0.50  332.0  15.0  295.1  2.0   0  0.00   32.  1010.   2 NAD-SFC NoSubs
 8  4 12 103 11  119.1  0.105  1.287  0.005  644.   81.     -1.0  0.1880  0.32  0.14  0.50  350.0  15.0  297.2  2.0   0  0.00   26.  1009.   2 NAD-SFC NoSubs
 8  4 12 103 12  128.2  0.208  1.440  0.005  839.  227.     -6.3  0.1880  0.32  0.14  1.50  349.0  15.0  299.1  2.0   0  0.00   23.  1008.   2 NAD-SFC NoSubs
 8  4 12 103 13  128.3  0.208  1.533  0.005 1010.  227.     -6.3  0.1880  0.32  0.14  1.50  351.0  15.0  300.4  2.0   0  0.00   21.  1007.   2 NAD-SFC NoSubs
 8  4 12 103 14  119.6  0.259  1.581  0.005 1188.  317.    -13.1  0.1880  0.32  0.14  2.10  355.0  15.0  301.2  2.0   0  0.00   20.  1006.   2 NAD-SFC NoSubs
 8  4 12 103 15  102.0  0.297  1.554  0.005 1321.  388.    -23.0  0.1880  0.32  0.15  2.60  355.0  15.0  301.6  2.0   0  0.00   20.  1006.   2 NAD-SFC NoSubs
 8  4 12 103 16   76.3  0.372  1.439  0.005 1401.  545.    -60.7  0.1880  0.32  0.16  3.60  353.0  15.0  301.5  2.0   0  0.00   22.  1005.   2 NAD-SFC NoSubs
 8  4 12 103 17   43.6 -9.000 -9.000 -9.000 1439. -999. -99999.0  0.0879  0.32  0.20  0.00    0.0  15.0  300.2  2.0   0  0.00   34.  1005.   2 NAD-SFC NoSubs
 8  4 12 103 18    7.7  0.427  0.677  0.005 1441.  670.   -905.9  0.1900  0.32  0.34  4.60   24.0  15.0  298.8  2.0   0  0.00   42.  1006.   2 NAD-SFC NoSubs
 8  4 12 103 19  -34.2  0.328 -9.000 -9.000 -999.  457.     92.4  0.1280  0.32  1.00  4.10   34.0  15.0  297.5  2.0   0  0.00   44.  1006.   2 NAD-SFC NoSubs
 8  4 12 103 20  -15.1  0.181 -9.000 -9.000 -999.  200.     34.9  0.0760  0.32  1.00  2.60   74.0  15.0  296.5  2.0   0  0.00   46.  1006.   2 NAD-SFC NoSubs
 8  4 12 103 21  -28.0  0.267 -9.000 -9.000 -999.  330.     60.7  0.0460  0.32  1.00  4.10  141.0  15.0  295.2  2.0   0  0.00   47.  1006.   2 NAD-SFC NoSubs
 8  4 12 103 22  -30.7  0.291 -9.000 -9.000 -999.  376.     71.8  0.0380  0.32  1.00  4.60  175.0  15.0  294.1  2.0   0  0.00   43.  1006.   2 NAD-SFC NoSubs
 8  4 12 103 23  -23.2  0.219 -9.000 -9.000 -999.  248.     40.7  0.0330  0.32  1.00  3.60  187.0  15.0  293.2  2.0   0  0.00   39.  1006.   2 NAD-SFC NoSubs
 8  4 12 103 24   -7.7  0.123 -9.000 -9.000 -999.  107.     21.6  0.0330  0.32  1.00  2.10  187.0  15.0  292.2  2.0   0  0.00   38.  1006.   2 NAD-SFC NoSubs
 8  4 13 104  1   -2.3  0.076 -9.000 -9.000 -999.   51.     17.4  0.0330  0.32  1.00  1.00  204.0  15.0  291.2  2.0   0  0.00   40.  1006.   2 NAD-SFC NoSubs
 8  4 13 104  2   -1.0  0.067 -9.000 -9.000 -999.   41.     26.6  0.0310  0.32  1.00  0.50  245.0  15.0  290.2  2.0   0  0.00   43.  1006.   2 NAD-SFC NoSubs
 8  4 13 104  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  289.4  2.0   0  0.00   45.  1006.   2 NAD-SFC NoSubs
 8  4 13 104  4   -1.3  0.077 -9.000 -9.000 -999.   51.     30.3  0.1280  0.32  1.00  0.50   37.0  15.0  288.8  2.0   0  0.00   47.  1006.   2 NAD-SFC NoSubs
 8  4 13 104  5   -1.3  0.077 -9.000 -9.000 -999.   51.     30.3  0.1280  0.32  1.00  0.50   45.0  15.0  288.1  2.0   0  0.00   49.  1006.   2 NAD-SFC NoSubs
 8  4 13 104  6   -3.1  0.090 -9.000 -9.000 -999.   65.     20.7  0.1280  0.32  1.00  1.00   33.0  15.0  287.4  2.0   0  0.00   53.  1006.   2 NAD-SFC NoSubs
 8  4 13 104  7    7.9  0.118  0.166  0.010   21.   97.    -18.6  0.1900  0.32  0.32  1.00    2.0  15.0  287.6  2.0   0  0.00   54.  1006.   2 NAD-SFC NoSubs
 8  4 13 104  8   44.1  0.229  0.481  0.007   90.  263.    -24.4  0.1620  0.32  0.19  2.10  313.0  15.0  291.4  2.0   0  0.00   39.  1006.   2 NAD-SFC NoSubs
 8  4 13 104  9   76.4  0.281  0.785  0.006  227.  358.    -26.1  0.1620  0.32  0.16  2.60  302.0  15.0  293.4  2.0   0  0.00   38.  1006.   2 NAD-SFC NoSubs
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8  4 13 104 10  102.1  0.171  1.016  0.006  368.  176.    -4.4  0.0780  0.32  0.15  1.50  296.0  15.0  295.5  2.0  0  0.00  36.  1006.  2 NAD-SFC NoSubs
8  4 13 104 11  119.9  0.134  1.221  0.005  544.  118.    -1.8  0.0780  0.32  0.14  1.00  293.0  15.0  298.0  2.0  0  0.00  29.  1005.  2 NAD-SFC NoSubs
8  4 13 104 12  128.8  0.089  1.362  0.005  703.   64.    -1.0  0.0780  0.32  0.14  0.50  296.0  15.0  299.6  2.0  0  0.00  26.  1004.  2 NAD-SFC NoSubs
8  4 13 104 13  128.9  0.102  1.452  0.005  851.   79.    -1.0  0.1620  0.32  0.14  0.50  306.0  15.0  300.9  2.0  0  0.00  25.  1003.  2 NAD-SFC NoSubs
8  4 13 104 14  120.3  0.102  1.482  0.005  969.   78.    -1.0  0.1620  0.32  0.14  0.50  320.0  15.0  302.0  2.0  0  0.00  23.  1003.  2 NAD-SFC NoSubs
8  4 13 104 15  102.7  0.156  1.476  0.005 1121.  148.    -3.3  0.1880  0.32  0.15  1.00  355.0  15.0  302.5  2.0  0  0.00  23.  1002.  2 NAD-SFC NoSubs
8  4 13 104 16   77.2  0.197  1.383  0.005 1224.  210.    -8.9  0.1900  0.32  0.16  1.50   11.0  15.0  302.8  2.0  0  0.00  23.  1001.  2 NAD-SFC NoSubs
8  4 13 104 17   44.7  0.278  1.169  0.005 1276.  353.   -43.1  0.1900  0.32  0.20  2.60   18.0  15.0  302.1  2.0  0  0.00  31.  1001.  2 NAD-SFC NoSubs
8  4 13 104 18    8.9  0.273  0.684  0.005 1283.  342.  -204.1  0.1280  0.32  0.34  3.10   31.0  15.0  301.1  2.0  0  0.00  36.  1001.  2 NAD-SFC NoSubs
8  4 13 104 19   -6.7  0.125 -9.000 -9.000 -999.  123.    25.7  0.1900  0.32  1.00  1.50   28.0  15.0  299.5  2.0  0  0.00  41.  1002.  2 NAD-SFC NoSubs
8  4 13 104 20   -7.5  0.122 -9.000 -9.000 -999.  102.    21.4  0.0310  0.32  1.00  2.10  257.0  15.0  297.6  2.0  0  0.00  46.  1002.  2 NAD-SFC NoSubs
8  4 13 104 21  -38.8  0.370 -9.000 -9.000 -999.  540.   116.9  0.0780  0.32  1.00  5.10  280.0  15.0  295.1  2.0  0  0.00  50.  1002.  2 NAD-SFC NoSubs
8  4 13 104 22  -31.1  0.295 -9.000 -9.000 -999.  387.    73.6  0.0780  0.32  1.00  4.10  276.0  15.0  292.9  2.0  0  0.00  51.  1002.  2 NAD-SFC NoSubs
8  4 13 104 23  -27.2  0.257 -9.000 -9.000 -999.  314.    55.8  0.0780  0.32  1.00  3.60  294.0  15.0  291.8  2.0  0  0.00  53.  1002.  2 NAD-SFC NoSubs
8  4 13 104 24  -13.5  0.176 -9.000 -9.000 -999.  180.    36.2  0.1880  0.32  1.00  2.10  344.0  15.0  290.9  2.0  0  0.00  56.  1002.  2 NAD-SFC NoSubs
8  4 14 105  1  -34.9  0.328 -9.000 -9.000 -999.  450.    90.0  0.1280  0.32  1.00  4.10   31.0  15.0  290.1  2.0  0  0.00  62.  1002.  2 NAD-SFC NoSubs
8  4 14 105  2  -28.6  0.268 -9.000 -9.000 -999.  335.    60.0  0.1880  0.32  1.00  3.10  358.0  15.0  289.2  2.0  0  0.00  71.  1002.  2 NAD-SFC NoSubs
8  4 14 105  3  -19.9  0.214 -9.000 -9.000 -999.  238.    43.9  0.1620  0.32  1.00  2.60  310.0  15.0  288.8  2.0  0  0.00  76.  1002.  2 NAD-SFC NoSubs
8  4 14 105  4  -12.8  0.170 -9.000 -9.000 -999.  168.    34.2  0.1620  0.32  1.00  2.10  302.0  15.0  288.4  2.0  0  0.00  81.  1002.  2 NAD-SFC NoSubs
8  4 14 105  5   -6.5  0.120 -9.000 -9.000 -999.  101.    24.1  0.1620  0.32  1.00  1.50  325.0  15.0  288.0  2.0  0  0.00  83.  1002.  2 NAD-SFC NoSubs
8  4 14 105  6   -3.5  0.095 -9.000 -9.000 -999.   70.    21.9  0.1880  0.32  1.00  1.00  350.0  15.0  287.5  2.0  0  0.00  86.  1003.  2 NAD-SFC NoSubs
8  4 14 105  7    8.6 -9.000 -9.000 -9.000   80. -999. -99999.0  0.0879  0.32  0.32  0.00    0.0  15.0  287.2  2.0  0  0.00  89.  1003.  2 NAD-SFC NoSubs
8  4 14 105  8   44.3  0.319  0.611  0.010  184.  432.   -65.5  0.1880  0.32  0.19  3.10  352.0  15.0  288.5  2.0  0  0.00  83.  1003.  2 NAD-SFC NoSubs
8  4 14 105  9   76.4  0.290  0.851  0.011  288.  375.   -28.5  0.1880  0.32  0.16  2.60  339.0  15.0  290.0  2.0  0  0.00  77.  1003.  2 NAD-SFC NoSubs
8  4 14 105 10  101.7  0.339  1.031  0.010  386.  473.   -34.3  0.1880  0.32  0.15  3.10  331.0  15.0  291.2  2.0  0  0.00  71.  1004.  2 NAD-SFC NoSubs
8  4 14 105 11  119.1  0.343  1.160  0.010  469.  483.   -30.4  0.1880  0.32  0.14  3.10  330.0  15.0  292.8  2.0  0  0.00  65.  1003.  2 NAD-SFC NoSubs
8  4 14 105 12  127.8  0.345  1.248  0.009  545.  486.   -28.7  0.1880  0.32  0.14  3.10  340.0  15.0  294.0  2.0  0  0.00  60.  1003.  2 NAD-SFC NoSubs
8  4 14 105 13  127.7  0.345  1.297  0.008  612.  486.   -28.7  0.1880  0.32  0.14  3.10  338.0  15.0  295.2  2.0  0  0.00  54.  1002.  2 NAD-SFC NoSubs
8  4 14 105 14  118.8  0.426  1.310  0.007  677.  666.   -58.0  0.1880  0.32  0.14  4.10  341.0  15.0  296.0  2.0  0  0.00  51.  1002.  3 NAD-SFC NoSubs
8  4 14 105 15  101.4  0.505  1.292  0.007  761.  861.  -113.8  0.1880  0.32  0.15  5.10  336.0  15.0  296.4  2.0  0  0.00  49.  1002.  3 NAD-SFC NoSubs
8  4 14 105 16   76.2  0.549  1.205  0.006  821.  976.  -194.3  0.1880  0.32  0.16  5.70  352.0  15.0  297.2  2.0  0  0.00  44.  1001.  3 NAD-SFC NoSubs
8  4 14 105 17   44.0  0.445  1.015  0.007  850.  722.  -178.9  0.1880  0.32  0.20  4.60  347.0  15.0  296.2  2.0  0  0.00  50.  1001.  3 NAD-SFC NoSubs
8  4 14 105 18    8.3  0.427  0.583  0.007  851.  669.  -832.3  0.1880  0.32  0.34  4.60  354.0  15.0  294.2  2.0  0  0.00  58.  1002.  3 NAD-SFC NoSubs
8  4 14 105 19  -46.6  0.451 -9.000 -9.000 -999.  727.   176.2  0.1880  0.32  1.00  5.10  333.0  15.0  291.9  2.0  0  0.00  63.  1003.  3 NAD-SFC NoSubs
8  4 14 105 20  -46.9  0.451 -9.000 -9.000 -999.  727.   175.0  0.1880  0.32  1.00  5.10  334.0  15.0  290.0  2.0  0  0.00  66.  1004.  3 NAD-SFC NoSubs
8  4 14 105 21  -45.6  0.435 -9.000 -9.000 -999.  688.   161.5  0.1620  0.32  1.00  5.10  325.0  15.0  288.1  2.0  0  0.00  66.  1005.  3 NAD-SFC NoSubs
8  4 14 105 22  -45.9  0.435 -9.000 -9.000 -999.  688.   160.5  0.1620  0.32  1.00  5.10  321.0  15.0  286.4  2.0  0  0.00  65.  1006.  3 NAD-SFC NoSubs
8  4 14 105 23  -41.5  0.390 -9.000 -9.000 -999.  587.   128.8  0.1620  0.32  1.00  4.60  325.0  15.0  284.9  2.0  0  0.00  65.  1007.  3 NAD-SFC NoSubs
8  4 14 105 24  -36.9  0.346 -9.000 -9.000 -999.  490.   100.9  0.1620  0.32  1.00  4.10  324.0  15.0  283.8  2.0  0  0.00  67.  1007.  3 NAD-SFC NoSubs
8  4 15 106  1  -32.4  0.302 -9.000 -9.000 -999.  400.    76.6  0.1620  0.32  1.00  3.60  318.0  15.0  282.8  2.0  0  0.00  70.  1007.  3 NAD-SFC NoSubs
8  4 15 106  2  -20.0  0.214 -9.000 -9.000 -999.  241.    43.9  0.1620  0.32  1.00  2.60  317.0  15.0  282.0  2.0  0  0.00  72.  1008.  3 NAD-SFC NoSubs
8  4 15 106  3  -12.8  0.170 -9.000 -9.000 -999.  168.    34.2  0.1620  0.32  1.00  2.10  313.0  15.0  281.4  2.0  0  0.00  74.  1008.  3 NAD-SFC NoSubs
8  4 15 106  4   -5.1  0.104 -9.000 -9.000 -999.   82.    19.9  0.0780  0.32  1.00  1.50  292.0  15.0  281.0  2.0  0  0.00  75.  1008.  3 NAD-SFC NoSubs
8  4 15 106  5   -5.0  0.104 -9.000 -9.000 -999.   81.    20.1  0.0780  0.32  1.00  1.50  295.0  15.0  280.5  2.0  0  0.00  76.  1009.  4 NAD-SFC NoSubs
8  4 15 106  6   -4.9  0.104 -9.000 -9.000 -999.   80.    20.4  0.0780  0.32  0.72  1.50  284.0  15.0  280.1  2.0  0  0.00  78.  1009.  5 NAD-SFC NoSubs
8  4 15 106  7   10.0  0.428  0.359  0.005  165.  671.  -702.8  0.1880  0.32  0.31  4.60  343.0  15.0  281.0  2.0  0  0.00  72.  1010.  6 NAD-SFC NoSubs
8  4 15 106  8   36.8  0.399  0.740  0.005  397.  606.  -155.8  0.1880  0.32  0.19  4.10  343.0  15.0  282.2  2.0  0  0.00  65.  1010.  7 NAD-SFC NoSubs
8  4 15 106  9   61.7  0.367  0.934  0.006  476.  535.   -72.4  0.1880  0.32  0.16  3.60  345.0  15.0  283.2  2.0  0  0.00  61.  1010.  7 NAD-SFC NoSubs
8  4 15 106 10   67.4  0.328  1.010  0.006  550.  452.   -47.2  0.1880  0.32  0.15  3.10  349.0  15.0  283.9  2.0  0  0.00  58.  1010.  8 NAD-SFC NoSubs
8  4 15 106 11   27.7  0.352  0.764  0.005  578.  502.  -141.9  0.1880  0.32  0.14  3.60  341.0  15.0  285.2  2.0  0  0.00  54.  1009.  10 NAD-SFC NoSubs
8  4 15 106 12  120.6  0.413  1.326  0.005  696.  637.   -52.7  0.1620  0.32  0.14  4.10  329.0  15.0  286.2  2.0  0  0.00  50.  1009.  5 NAD-SFC NoSubs
8  4 15 106 13  124.6  0.455  1.418  0.005  824.  735.   -67.8  0.1620  0.32  0.14  4.60  328.0  15.0  287.1  2.0  0  0.00  47.  1008.  4 NAD-SFC NoSubs
8  4 15 106 14  115.9  0.508  1.439  0.005  926.  869.  -102.0  0.1880  0.32  0.14  5.10  335.0  15.0  287.8  2.0  0  0.00  44.  1008.  4 NAD-SFC NoSubs
8  4 15 106 15   99.9  0.555  1.414  0.006 1016.  992.  -154.0  0.1880  0.32  0.15  5.70  335.0  15.0  288.1  2.0  0  0.00  41.  1007.  3 NAD-SFC NoSubs
8  4 15 106 16   74.6  0.498  1.311  0.006 1086.  847.  -148.6  0.1880  0.32  0.16  5.10  335.0  15.0  288.2  2.0  0  0.00  37.  1007.  3 NAD-SFC NoSubs
8  4 15 106 17   42.6  0.472  1.101  0.007 1123.  780.  -221.6  0.1620  0.32  0.20  5.10  326.0  15.0  288.2  2.0  0  0.00  36.  1007.  3 NAD-SFC NoSubs
8  4 15 106 18    6.4  0.326  0.584  0.007 1127.  462.  -487.8  0.1620  0.32  0.33  3.60  321.0  15.0  287.2  2.0  0  0.00  47.  1007.  2 NAD-SFC NoSubs
8  4 15 106 19  -32.9  0.302 -9.000 -9.000 -999.  399.    75.4  0.1620  0.32  1.00  3.60  318.0  15.0  285.6  2.0  0  0.00  51.  1007.  2 NAD-SFC NoSubs
8  4 15 106 20  -28.2  0.258 -9.000 -9.000 -999.  315.    54.8  0.1620  0.32  1.00  3.10  319.0  15.0  284.6  2.0  0  0.00  53.  1007.  2 NAD-SFC NoSubs
8  4 15 106 21  -20.2  0.214 -9.000 -9.000 -999.  238.    43.5  0.1620  0.32  1.00  2.60  306.0  15.0  284.1  2.0  0  0.00  52.  1007.  2 NAD-SFC NoSubs
8  4 15 106 22   -6.6  0.121 -9.000 -9.000 -999.  104.    23.9  0.1620  0.32  1.00  1.50  305.0  15.0  283.5  2.0  0  0.00  53.  1008.  2 NAD-SFC NoSubs
8  4 15 106 23   -4.1  0.091 -9.000 -9.000 -999.   66.    16.4  0.0310  0.32  1.00  1.50  268.0  15.0  283.0  2.0  0  0.00  53.  1008.  2 NAD-SFC NoSubs
8  4 15 106 24   -1.0  0.068 -9.000 -9.000 -999.   42.    27.1  0.0340  0.32  1.00  0.50  227.0  15.0  282.4  2.0  0  0.00  53.  1007.  2 NAD-SFC NoSubs
8  4 16 107  1   -2.5  0.080 -9.000 -9.000 -999.   54.    18.2  0.0460  0.32  1.00  1.00  149.0  15.0  281.8  2.0  0  0.00  56.  1007.  2 NAD-SFC NoSubs
8  4 16 107  2   -4.3  0.094 -9.000 -9.000 -999.   69.    17.0  0.0380  0.32  1.00  1.50  159.0  15.0  280.9  2.0  0  0.00  60.  1007.  2 NAD-SFC NoSubs
8  4 16 107  3   -4.4  0.094 -9.000 -9.000 -999.   69.    17.0  0.0380  0.32  1.00  1.50  176.0  15.0  280.4  2.0  0  0.00  62.  1007.  2 NAD-SFC NoSubs
8  4 16 107  4   -4.2  0.092 -9.000 -9.000 -999.   67.    16.6  0.0340  0.32  1.00  1.50  217.0  15.0  280.0  2.0  0  0.00  62.  1007.  2 NAD-SFC NoSubs
8  4 16 107  5   -4.2  0.091 -9.000 -9.000 -999.   66.    16.4  0.0310  0.32  1.00  1.50  250.0  15.0  279.6  2.0  0  0.00  63.  1007.  2 NAD-SFC NoSubs
8  4 16 107  6   -4.2  0.091 -9.000 -9.000 -999.   66.    16.4  0.0310  0.32  0.71  1.50  249.0  15.0  279.2  2.0  0  0.00  63.  1008.  2 NAD-SFC NoSubs
8  4 16 107  7    9.1  0.063  0.232  0.007   49.   38.    -2.5  0.0780  0.32  0.31  0.50  286.0  15.0  280.2  2.0  0  0.00  61.  1008.  2 NAD-SFC NoSubs
8  4 16 107  8   44.9  0.089  0.625  0.005  195.   64.    -1.4  0.1620  0.32  0.19  0.50  310.0  15.0  282.8  2.0  0  0.00  51.  1008.  2 NAD-SFC NoSubs
8  4 16 107  9   76.8 -9.000 -9.000 -9.000  424. -999. -99999.0  0.0879  0.32  0.16  0.00    0.0  15.0  284.4  2.0  0  0.00  45.  1008.  2 NAD-SFC NoSubs
8  4 16 107 10  101.9 -9.000 -9.000 -9.000  561. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  286.2  2.0  0  0.00  39.  1008.  2 NAD-SFC NoSubs
8  4 16 107 11  119.2 -9.000 -9.000 -9.000  685. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  288.1  2.0  0  0.00  36.  1007.  2 NAD-SFC NoSubs
8  4 16 107 12  127.8 -9.000 -9.000 -9.000  790. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  289.8  2.0  0  0.00  33.  1006.  2 NAD-SFC NoSubs
8  4 16 107 13  127.8 -9.000 -9.000 -9.000  882. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  291.5  2.0  0  0.00  29.  1006.  2 NAD-SFC NoSubs
8  4 16 107 14  118.9  0.154  1.471  0.008  961.  146.    -2.8  0.1620  0.32  0.14  1.00  325.0  15.0  292.8  2.0  0  0.00  26.  1005.  2 NAD-SFC NoSubs
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 8  4 16 107 15   101.4  0.203  1.424  0.008 1023.  219.     -7.4 0.1880  0.32  0.15  1.50  342.0  15.0  293.5  2.0    0  0.00   25. 1005.     2 NAD-SFC NoSubs
 8  4 16 107 16    75.8  0.289  1.310  0.009 1065.  374.    -28.7 0.1880  0.32  0.16  2.60  349.0  15.0  293.8  2.0    0  0.00   26. 1005.     2 NAD-SFC NoSubs
 8  4 16 107 17    43.5  0.278  1.097  0.009 1089.  351.    -44.1 0.1900  0.32  0.20  2.60    2.0  15.0  293.5  2.0    0  0.00   29. 1005.     2 NAD-SFC NoSubs
 8  4 16 107 18     7.9  0.210  0.622  0.009 1092.  232.   -104.4 0.1900  0.32  0.33  2.10    3.0  15.0  292.9  2.0    0  0.00   36. 1005.     2 NAD-SFC NoSubs
 8  4 16 107 19     3.2 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0879  0.32  1.00  0.00    0.0  15.0  291.8  2.0    0  0.00   39. 1006.     2 NAD-SFC NoSubs
 8  4 16 107 20    -1.5  0.080 -9.000 -9.000 -999.  54.     31.2 0.1900  0.32  1.00  0.50   20.0  15.0  290.4  2.0    0  0.00   43. 1006.     2 NAD-SFC NoSubs
 8  4 16 107 21  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0879  0.32  1.00  0.00    0.0  15.0  288.8  2.0    0  0.00   49. 1007.     2 NAD-SFC NoSubs
 8  4 16 107 22    -1.0  0.067 -9.000 -9.000 -999.  42.     26.8 0.0330  0.32  1.00  0.50  195.0  15.0  287.2  2.0    0  0.00   55. 1007.     2 NAD-SFC NoSubs
 8  4 16 107 23    -1.0  0.067 -9.000 -9.000 -999.  42.     26.9 0.0330  0.32  1.00  0.50  182.0  15.0  286.1  2.0    0  0.00   59. 1007.     2 NAD-SFC NoSubs
 8  4 16 107 24    -2.5  0.080 -9.000 -9.000 -999.  54.     18.2 0.0460  0.32  1.00  1.00  135.0  15.0  285.2  2.0    0  0.00   62. 1007.     2 NAD-SFC NoSubs
 8  4 17 108  1    -2.5  0.081 -9.000 -9.000 -999.  55.     18.4 0.0510  0.32  1.00  1.00  119.0  15.0  284.4  2.0    0  0.00   64. 1008.     2 NAD-SFC NoSubs
 8  4 17 108  2    -1.2  0.073 -9.000 -9.000 -999.  48.     29.1 0.0780  0.32  1.00  0.50  279.0  15.0  283.9  2.0    0  0.00   64. 1008.     2 NAD-SFC NoSubs
 8  4 17 108  3   -10.0  0.144 -9.000 -9.000 -999. 131.     26.7 0.0780  0.32  1.00  2.10  288.0  15.0  283.4  2.0    0  0.00   65. 1008.     2 NAD-SFC NoSubs
 8  4 17 108  4   -15.6  0.181 -9.000 -9.000 -999. 185.     34.2 0.0780  0.32  1.00  2.60  277.0  15.0  282.9  2.0    0  0.00   67. 1009.     2 NAD-SFC NoSubs
 8  4 17 108  5   -15.7  0.181 -9.000 -9.000 -999. 185.     34.2 0.0780  0.32  1.00  2.60  284.0  15.0  282.4  2.0    0  0.00   69. 1009.     2 NAD-SFC NoSubs
 8  4 17 108  6   -15.6  0.181 -9.000 -9.000 -999. 185.     34.3 0.0780  0.32  0.69  2.60  278.0  15.0  282.1  2.0    0  0.00   68. 1010.     2 NAD-SFC NoSubs
 8  4 17 108  7    10.1  0.206  0.241  0.008  50.  224.    -77.2 0.1620  0.32  0.31  2.10  315.0  15.0  283.1  2.0    0  0.00   62. 1010.     2 NAD-SFC NoSubs
 8  4 17 108  8    45.9  0.180  0.546  0.009 127.  184.    -11.5 0.1620  0.32  0.19  1.50  312.0  15.0  285.2  2.0    0  0.00   52. 1010.     2 NAD-SFC NoSubs
 8  4 17 108  9    78.0 -9.000 -9.000 -9.000 210. -999. -99999.0 0.0879  0.32  0.15  0.00    0.0  15.0  288.1  2.0    0  0.00   43. 1010.     2 NAD-SFC NoSubs
 8  4 17 108 10   103.3 -9.000 -9.000 -9.000 344. -999. -99999.0 0.0879  0.32  0.14  0.00    0.0  15.0  290.8  2.0    0  0.00   34. 1010.     2 NAD-SFC NoSubs
 8  4 17 108 11   120.7 -9.000 -9.000 -9.000 505. -999. -99999.0 0.0879  0.32  0.14  0.00    0.0  15.0  292.9  2.0    0  0.00   29. 1009.     2 NAD-SFC NoSubs
 8  4 17 108 12   129.4 -9.000 -9.000 -9.000 662. -999. -99999.0 0.0879  0.32  0.14  0.00    0.0  15.0  294.8  2.0    0  0.00   26. 1008.     2 NAD-SFC NoSubs
 8  4 17 108 13   129.3 -9.000 -9.000 -9.000 770. -999. -99999.0 0.0879  0.32  0.14  0.00    0.0  15.0  296.2  2.0    0  0.00   24. 1007.     2 NAD-SFC NoSubs
 8  4 17 108 14   120.5  0.097  1.422  0.009 858.  72.     -1.0 0.1280  0.32  0.14  0.50   35.0  15.0  297.2  2.0    0  0.00   22. 1007.     2 NAD-SFC NoSubs
 8  4 17 108 15   102.9  0.156  1.385  0.009 928.  148.    -3.3 0.1900  0.32  0.15  1.00   24.0  15.0  298.0  2.0    0  0.00   22. 1006.     2 NAD-SFC NoSubs
 8  4 17 108 16    77.4  0.182  1.281  0.009 975.  187.    -7.0 0.1280  0.32  0.16  1.50   35.0  15.0  298.1  2.0    0  0.00   23. 1006.     2 NAD-SFC NoSubs
 8  4 17 108 17    45.0  0.219  1.077  0.009 995.  246.   -20.9 0.1280  0.32  0.20  2.10   31.0  15.0  297.5  2.0    0  0.00   31. 1005.     2 NAD-SFC NoSubs
 8  4 17 108 18     9.2  0.273  0.636  0.009 998.  343.   -198.1 0.1280  0.32  0.33  3.10   35.0  15.0  296.5  2.0    0  0.00   37. 1005.     2 NAD-SFC NoSubs
 8  4 17 108 19   -30.0  0.286 -9.000 -9.000 -999. 367.     69.8 0.1280  0.32  1.00  3.60   39.0  15.0  295.2  2.0    0  0.00   38. 1005.     2 NAD-SFC NoSubs
 8  4 17 108 20   -11.6  0.160 -9.000 -9.000 -999. 163.     31.9 0.1280  0.32  1.00  2.10   39.0  15.0  293.8  2.0    0  0.00   40. 1005.     2 NAD-SFC NoSubs
 8  4 17 108 21    -7.6  0.122 -9.000 -9.000 -999. 102.     21.2 0.0310  0.32  1.00  2.10  259.0  15.0  291.9  2.0    0  0.00   46. 1005.     2 NAD-SFC NoSubs
 8  4 17 108 22   -26.6  0.249 -9.000 -9.000 -999. 298.     51.9 0.0310  0.32  1.00  4.10  259.0  15.0  290.0  2.0    0  0.00   48. 1006.     2 NAD-SFC NoSubs
 8  4 17 108 23   -27.6  0.257 -9.000 -9.000 -999. 313.     55.3 0.0780  0.32  1.00  3.60  293.0  15.0  289.2  2.0    0  0.00   43. 1006.     2 NAD-SFC NoSubs
 8  4 17 108 24   -27.8  0.258 -9.000 -9.000 -999. 315.     55.6 0.1620  0.32  1.00  3.10  300.0  15.0  288.4  2.0    0  0.00   40. 1006.     2 NAD-SFC NoSubs
 8  4 18 109  1    -6.9  0.125 -9.000 -9.000 -999. 118.     25.2 0.1880  0.32  1.00  1.50  335.0  15.0  287.4  2.0    0  0.00   41. 1006.     2 NAD-SFC NoSubs
 8  4 18 109  2    -6.0  0.115 -9.000 -9.000 -999.  93.     22.5 0.1280  0.32  1.00  1.50   39.0  15.0  287.1  2.0    0  0.00   41. 1006.     2 NAD-SFC NoSubs
 8  4 18 109  3    -6.0  0.115 -9.000 -9.000 -999.  93.     22.5 0.1280  0.32  1.00  1.50   49.0  15.0  286.2  2.0    0  0.00   43. 1006.     2 NAD-SFC NoSubs
 8  4 18 109  4    -3.1  0.090 -9.000 -9.000 -999.  65.     20.8 0.1280  0.32  1.00  1.00   40.0  15.0  285.2  2.0    0  0.00   48. 1005.     2 NAD-SFC NoSubs
 8  4 18 109  5  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0879  0.32  1.00  0.00    0.0  15.0  284.2  2.0    0  0.00   52. 1005.     2 NAD-SFC NoSubs
 8  4 18 109  6  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0879  0.32  0.68  0.00    0.0  15.0  283.6  2.0    0  0.00   54. 1005.     2 NAD-SFC NoSubs
 8  4 18 109  7    11.0 -9.000 -9.000 -9.000  53. -999. -99999.0 0.0879  0.32  0.30  0.00    0.0  15.0  284.2  2.0    0  0.00   57. 1005.     2 NAD-SFC NoSubs
 8  4 18 109  8    47.1 -9.000 -9.000 -9.000 151. -999. -99999.0 0.0879  0.32  0.19  0.00    0.0  15.0  288.0  2.0    0  0.00   40. 1005.     2 NAD-SFC NoSubs
 8  4 18 109  9    79.1 -9.000 -9.000 -9.000 249. -999. -99999.0 0.0879  0.32  0.15  0.00    0.0  15.0  290.5  2.0    0  0.00   36. 1004.     2 NAD-SFC NoSubs
 8  4 18 109 10   104.4 -9.000 -9.000 -9.000 348. -999. -99999.0 0.0879  0.32  0.14  0.00    0.0  15.0  293.2  2.0    0  0.00   30. 1003.     2 NAD-SFC NoSubs
 8  4 18 109 11   121.8 -9.000 -9.000 -9.000 495. -999. -99999.0 0.0879  0.32  0.14  0.00    0.0  15.0  295.2  2.0    0  0.00   28. 1003.     2 NAD-SFC NoSubs
 8  4 18 109 12   130.4 -9.000 -9.000 -9.000 655. -999. -99999.0 0.0879  0.32  0.14  0.00    0.0  15.0  296.9  2.0    0  0.00   25. 1001.     2 NAD-SFC NoSubs
 8  4 18 109 13   130.3 -9.000 -9.000 -9.000 827. -999. -99999.0 0.0879  0.32  0.14  0.00    0.0  15.0  298.2  2.0    0  0.00   23. 1000.     2 NAD-SFC NoSubs
 8  4 18 109 14   121.4  0.105  1.485  0.006 962.  82.     -1.0 0.1880  0.32  0.14  0.50  356.0  15.0  299.2  2.0    0  0.00   21.  999.     2 NAD-SFC NoSubs
 8  4 18 109 15   103.9  0.103  1.451  0.006 1047.  79.     -1.0 0.1880  0.32  0.15  0.50  346.0  15.0  299.9  2.0    0  0.00   20.  998.     2 NAD-SFC NoSubs
 8  4 18 109 16    78.4  0.151  1.345  0.006 1105. 141.     -3.9 0.1880  0.32  0.16  1.00  348.0  15.0  300.2  2.0    0  0.00   20.  998.     2 NAD-SFC NoSubs
 8  4 18 109 17    46.0  0.230  1.137  0.006 1136. 264.    -23.5 0.1620  0.32  0.19  2.10  300.0  15.0  299.5  2.0    0  0.00   29.  998.     2 NAD-SFC NoSubs
 8  4 18 109 18     9.7  0.395  0.677  0.006 1136. 596.   -564.0 0.0780  0.32  0.32  5.10  276.0  15.0  296.8  2.0    0  0.00   43.  998.     2 NAD-SFC NoSubs
 8  4 18 109 19   -39.0  0.370 -9.000 -9.000 -999. 541.    115.8 0.0780  0.32  1.00  5.10  283.0  15.0  292.6  2.0    0  0.00   55.  999.     2 NAD-SFC NoSubs
 8  4 18 109 20   -33.2  0.313 -9.000 -9.000 -999. 421.     81.9 0.0310  0.32  1.00  5.10  268.0  15.0  290.1  2.0    0  0.00   62.  999.     2 NAD-SFC NoSubs
 8  4 18 109 21   -39.6  0.370 -9.000 -9.000 -999. 540.    114.0 0.0780  0.32  1.00  5.10  275.0  15.0  288.2  2.0    0  0.00   69.  999.     2 NAD-SFC NoSubs
 8  4 18 109 22   -31.7  0.295 -9.000 -9.000 -999. 387.     72.0 0.0780  0.32  1.00  4.10  274.0  15.0  286.9  2.0    0  0.00   74. 1000.     2 NAD-SFC NoSubs
 8  4 18 109 23   -15.4  0.181 -9.000 -9.000 -999. 192.     34.5 0.0780  0.32  1.00  2.60  270.0  15.0  286.1  2.0    0  0.00   77. 1000.     2 NAD-SFC NoSubs
 8  4 18 109 24    -5.1  0.105 -9.000 -9.000 -999.  83.     19.8 0.0780  0.32  1.00  1.50  289.0  15.0  285.6  2.0    0  0.00   78. 1000.     2 NAD-SFC NoSubs
 8  4 19 110  1   -11.9  0.152 -9.000 -9.000 -999. 143.     26.6 0.0310  0.32  1.00  2.60  259.0  15.0  285.0  2.0    0  0.00   80. 1001.     2 NAD-SFC NoSubs
 8  4 19 110  2   -23.3  0.220 -9.000 -9.000 -999. 248.     40.9 0.0340  0.32  1.00  3.60  238.0  15.0  284.0  2.0    0  0.00   85. 1001.     3 NAD-SFC NoSubs
 8  4 19 110  3   -23.4  0.220 -9.000 -9.000 -999. 248.     40.8 0.0340  0.32  1.00  3.60  239.0  15.0  283.4  2.0    0  0.00   87. 1001.     3 NAD-SFC NoSubs
 8  4 19 110  4   -17.0  0.185 -9.000 -9.000 -999. 191.     33.1 0.0310  0.32  1.00  3.10  243.0  15.0  283.0  2.0    0  0.00   88. 1001.     3 NAD-SFC NoSubs
 8  4 19 110  5   -17.0  0.185 -9.000 -9.000 -999. 191.     33.1 0.0310  0.32  1.00  3.10  255.0  15.0  283.0  2.0    0  0.00   86. 1001.     3 NAD-SFC NoSubs
 8  4 19 110  6   -26.8  0.257 -9.000 -9.000 -999. 313.     56.8 0.0780  0.32  0.66  3.60  274.0  15.0  283.2  2.0    0  0.00   83. 1001.     3 NAD-SFC NoSubs
 8  4 19 110  7    12.5  0.252  0.332  0.005 104.  304.   -114.5 0.0780  0.32  0.30  3.10  279.0  15.0  283.6  2.0    0  0.00   82. 1002.     3 NAD-SFC NoSubs
 8  4 19 110  8    47.6  0.271  0.781  0.006 357.  339.    -37.5 0.0780  0.32  0.19  3.10  298.0  15.0  283.9  2.0    0  0.00   80. 1002.     4 NAD-SFC NoSubs
 8  4 19 110  9    78.1  0.282  1.051  0.008 531.  359.    -25.6 0.1620  0.32  0.15  2.60  313.0  15.0  284.2  2.0    0  0.00   77. 1002.     4 NAD-SFC NoSubs
 8  4 19 110 10    98.8  0.247  1.229  0.009 671.  295.    -13.6 0.1620  0.32  0.14  2.10  324.0  15.0  284.6  2.0    0  0.00   74. 1002.     5 NAD-SFC NoSubs
 8  4 19 110 11   118.5  0.292  1.355  0.009 752.  379.    -18.8 0.1620  0.32  0.14  2.60  317.0  15.0  285.1  2.0    0  0.00   71. 1002.     4 NAD-SFC NoSubs
 8  4 19 110 12   126.5  0.303  1.431  0.009 830.  400.    -19.6 0.1880  0.32  0.14  2.60  345.0  15.0  285.8  2.0    0  0.00   67. 1002.     4 NAD-SFC NoSubs
 8  4 19 110 13   128.1 -9.000 -9.000 -9.000 903. -999. -99999.0 0.0879  0.32  0.14  0.00    0.0  15.0  287.4  2.0    0  0.00   60. 1001.     3 NAD-SFC NoSubs
 8  4 19 110 14   117.6  0.344  1.470  0.010 966.  484.    -30.8 0.1900  0.32  0.14  3.10    6.0  15.0  288.8  2.0    0  0.00   53. 1001.     4 NAD-SFC NoSubs
 8  4 19 110 15   100.6  0.381  1.417  0.010 1011.  564.    -49.0 0.1900  0.32  0.15  3.60   13.0  15.0  289.8  2.0    0  0.00   49. 1001.     4 NAD-SFC NoSubs
 8  4 19 110 16    73.7  0.457  1.291  0.010 1043.  740.   -115.2 0.1900  0.32  0.16  4.60    3.0  15.0  290.8  2.0    0  0.00   54. 1000.     5 NAD-SFC NoSubs
 8  4 19 110 17    44.8  0.488  1.100  0.010 1061.  818.   -231.5 0.1880  0.32  0.19  5.10  352.0  15.0  290.6  2.0    0  0.00   50. 1000.     4 NAD-SFC NoSubs
 8  4 19 110 18    10.2  0.340  0.672  0.010 1064.  493.   -344.4 0.1880  0.32  0.32  3.60  339.0  15.0  289.8  2.0    0  0.00   59. 1001.     4 NAD-SFC NoSubs
 8  4 19 110 19   -47.3  0.451 -9.000 -9.000 -999.  726.    173.4 0.1880  0.32  1.00  5.10  343.0  15.0  287.4  2.0    0  0.00   64. 1003.     3 NAD-SFC NoSubs
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 8  4 19 110 20  -47.6  0.451 -9.000 -9.000 -999.  727.    172.3  0.1880  0.32  1.00   5.10  336.0  15.0  285.8  2.0   0  0.00   65.  1004.    3 NAD-SFC NoSubs
 8  4 19 110 21  -46.1  0.435 -9.000 -9.000 -999.  688.    159.4  0.1620  0.32  1.00   5.10  322.0  15.0  284.5  2.0   0  0.00   68.  1005.    3 NAD-SFC NoSubs
 8  4 19 110 22  -46.4  0.434 -9.000 -9.000 -999.  687.    158.5  0.1620  0.32  1.00   5.10  308.0  15.0  283.0  2.0   0  0.00   71.  1006.    3 NAD-SFC NoSubs
 8  4 19 110 23  -41.9  0.390 -9.000 -9.000 -999.  587.    127.2  0.1620  0.32  1.00   4.60  321.0  15.0  281.8  2.0   0  0.00   71.  1007.    3 NAD-SFC NoSubs
 8  4 19 110 24  -37.3  0.346 -9.000 -9.000 -999.  490.     99.8  0.1620  0.32  1.00   4.10  325.0  15.0  280.9  2.0   0  0.00   73.  1008.    3 NAD-SFC NoSubs
 8  4 20 111  1  -37.4  0.346 -9.000 -9.000 -999.  489.     99.6  0.1620  0.32  1.00   4.10  320.0  15.0  280.1  2.0   0  0.00   75.  1008.    3 NAD-SFC NoSubs
 8  4 20 111  2  -32.8  0.302 -9.000 -9.000 -999.  400.     75.7  0.1620  0.32  1.00   3.60  325.0  15.0  279.4  2.0   0  0.00   78.  1008.    3 NAD-SFC NoSubs
 8  4 20 111  3  -28.1  0.258 -9.000 -9.000 -999.  315.     55.1  0.1620  0.32  1.00   3.10  313.0  15.0  278.8  2.0   0  0.00   79.  1009.    3 NAD-SFC NoSubs
 8  4 20 111  4  -10.0  0.144 -9.000 -9.000 -999.  138.     26.9  0.0780  0.32  1.00   2.10  296.0  15.0  278.5  2.0   0  0.00   80.  1009.    3 NAD-SFC NoSubs
 8  4 20 111  5   -4.1  0.091 -9.000 -9.000 -999.   66.     16.4  0.0310  0.32  1.00   1.50  258.0  15.0  278.2  2.0   0  0.00   80.  1009.    3 NAD-SFC NoSubs
 8  4 20 111  6   -7.6  0.124 -9.000 -9.000 -999.  104.     22.2  0.0340  0.32  0.65   2.10  216.0  15.0  278.0  2.0   0  0.00   80.  1010.    4 NAD-SFC NoSubs
 8  4 20 111  7   12.7  0.215  0.322  0.006   95.   239.    -70.2  0.1880  0.32  0.29   2.10  337.0  15.0  279.2  2.0   0  0.00   72.  1011.    3 NAD-SFC NoSubs
 8  4 20 111  8   48.0  0.187  0.741  0.006  306.   194.    -12.2  0.1880  0.32  0.19   1.50  349.0  15.0  280.5  2.0   0  0.00   66.  1011.    3 NAD-SFC NoSubs
 8  4 20 111  9   79.2  0.099  0.997  0.006  451.    78.     -1.1  0.1880  0.32  0.15   0.50  347.0  15.0  281.9  2.0   0  0.00   59.  1011.    3 NAD-SFC NoSubs
 8  4 20 111 10  103.8 -9.000 -9.000 -9.000  561. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  283.4  2.0   0  0.00   52.  1011.    3 NAD-SFC NoSubs
 8  4 20 111 11  120.6 -9.000 -9.000 -9.000  671. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  285.0  2.0   0  0.00   45.  1011.    3 NAD-SFC NoSubs
 8  4 20 111 12  128.8  0.156  1.420  0.006  801.   148.     -2.6  0.1620  0.32  0.14   1.00  326.0  15.0  286.4  2.0   0  0.00   39.  1010.    3 NAD-SFC NoSubs
 8  4 20 111 13  128.5  0.303  1.482  0.006  913.   400.    -19.5  0.1880  0.32  0.14   2.60  333.0  15.0  287.5  2.0   0  0.00   34.  1010.    3 NAD-SFC NoSubs
 8  4 20 111 14  119.5  0.426  1.494  0.006 1005.   667.    -58.1  0.1880  0.32  0.14   4.10  338.0  15.0  288.2  2.0   0  0.00   33.  1009.    3 NAD-SFC NoSubs
 8  4 20 111 15  101.9  0.505  1.448  0.006 1073.   861.   -113.9  0.1880  0.32  0.15   5.10  343.0  15.0  288.4  2.0   0  0.00   34.  1009.    3 NAD-SFC NoSubs
 8  4 20 111 16   76.6  0.549  1.336  0.006 1122.   976.   -194.8  0.1880  0.32  0.16   5.70  339.0  15.0  288.2  2.0   0  0.00   37.  1009.    3 NAD-SFC NoSubs
 8  4 20 111 17   44.7  0.540  1.125  0.006 1148.   952.   -316.3  0.1880  0.32  0.19   5.70  344.0  15.0  287.8  2.0   0  0.00   40.  1009.    3 NAD-SFC NoSubs
 8  4 20 111 18    9.4  0.339  0.670  0.006 1152.   511.   -374.2  0.1880  0.32  0.32   3.60  344.0  15.0  286.8  2.0   0  0.00   51.  1009.    3 NAD-SFC NoSubs
 8  4 20 111 19  -39.3  0.359 -9.000 -9.000 -999.  516.    106.1  0.1880  0.32  0.73   4.10  353.0  15.0  284.8  2.0   0  0.00   57.  1009.    2 NAD-SFC NoSubs
 8  4 20 111 20  -34.4  0.313 -9.000 -9.000 -999.  422.     80.5  0.1880  0.32  1.00   3.60  348.0  15.0  283.5  2.0   0  0.00   62.  1009.    2 NAD-SFC NoSubs
 8  4 20 111 21  -21.5  0.222 -9.000 -9.000 -999.  255.     45.7  0.1880  0.32  1.00   2.60  339.0  15.0  282.8  2.0   0  0.00   64.  1009.    2 NAD-SFC NoSubs
 8  4 20 111 22   -6.6  0.121 -9.000 -9.000 -999.  106.     23.9  0.1620  0.32  1.00   1.50  320.0  15.0  282.1  2.0   0  0.00   65.  1010.    2 NAD-SFC NoSubs
 8  4 20 111 23   -2.3  0.077 -9.000 -9.000 -999.   51.     17.4  0.0310  0.32  1.00   1.00  259.0  15.0  281.5  2.0   0  0.00   66.  1010.    2 NAD-SFC NoSubs
 8  4 20 111 24   -1.0  0.067 -9.000 -9.000 -999.   41.     26.7  0.0310  0.32  1.00   0.50  267.0  15.0  281.1  2.0   0  0.00   65.  1010.    3 NAD-SFC NoSubs
 8  4 21 112  1   -1.2  0.073 -9.000 -9.000 -999.   47.     29.0  0.0780  0.32  1.00   0.50  270.0  15.0  280.4  2.0   0  0.00   68.  1010.    3 NAD-SFC NoSubs
 8  4 21 112  2   -3.4  0.093 -9.000 -9.000 -999.   68.     21.5  0.1620  0.32  1.00   1.00  310.0  15.0  279.8  2.0   0  0.00   70.  1010.    3 NAD-SFC NoSubs
 8  4 21 112  3   -6.5  0.120 -9.000 -9.000 -999.  100.     24.0  0.1620  0.32  1.00   1.50  316.0  15.0  279.2  2.0   0  0.00   73.  1010.    3 NAD-SFC NoSubs
 8  4 21 112  4   -6.6  0.120 -9.000 -9.000 -999.  100.     24.0  0.1620  0.32  1.00   1.50  317.0  15.0  278.9  2.0   0  0.00   77.  1010.    3 NAD-SFC NoSubs
 8  4 21 112  5   -3.4  0.093 -9.000 -9.000 -999.   68.     21.5  0.1620  0.32  1.00   1.00  300.0  15.0  278.4  2.0   0  0.00   81.  1010.    3 NAD-SFC NoSubs
 8  4 21 112  6   -1.1  0.071 -9.000 -9.000 -999.   45.     28.3  0.0780  0.32  0.64   0.50  277.0  15.0  278.0  2.0   0  0.00   85.  1011.    4 NAD-SFC NoSubs
 8  4 21 112  7   13.4  0.166  0.312  0.005   82.   162.    -30.7  0.1880  0.32  0.29   1.50  355.0  15.0  279.1  2.0   0  0.00   80.  1011.    3 NAD-SFC NoSubs
 8  4 21 112  8   48.6  0.093  0.746  0.005  308.    69.     -1.5  0.1900  0.32  0.18   0.50    1.0  15.0  280.8  2.0   0  0.00   70.  1011.    3 NAD-SFC NoSubs
 8  4 21 112  9   79.8 -9.000 -9.000 -9.000  475. -999. -99999.0  0.0879  0.32  0.15   0.00    0.0  15.0  282.2  2.0   0  0.00   62.  1011.    3 NAD-SFC NoSubs
 8  4 21 112 10  104.4 -9.000 -9.000 -9.000  656. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  284.0  2.0   0  0.00   54.  1010.    3 NAD-SFC NoSubs
 8  4 21 112 11  121.2 -9.000 -9.000 -9.000  816. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  285.5  2.0   0  0.00   49.  1010.    2 NAD-SFC NoSubs
 8  4 21 112 12  129.5 -9.000 -9.000 -9.000  959. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  287.1  2.0   0  0.00   45.  1009.    2 NAD-SFC NoSubs
 8  4 21 112 13  129.2  0.156  1.571  0.007 1080.   148.     -2.6  0.1620  0.32  0.14   1.00  305.0  15.0  288.6  2.0   0  0.00   40.  1008.    2 NAD-SFC NoSubs
 8  4 21 112 14  120.3  0.200  1.581  0.009 1182.   215.     -6.0  0.1620  0.32  0.14   1.50  324.0  15.0  289.8  2.0   0  0.00   35.  1007.    2 NAD-SFC NoSubs
 8  4 21 112 15  102.6  0.297  1.533  0.010 1262.   388.    -22.9  0.1880  0.32  0.14   2.60  340.0  15.0  290.4  2.0   0  0.00   33.  1006.    2 NAD-SFC NoSubs
 8  4 21 112 16   77.1  0.332  1.415  0.011 1319.   458.    -42.4  0.1880  0.32  0.16   3.10  351.0  15.0  290.8  2.0   0  0.00   32.  1006.    2 NAD-SFC NoSubs
 8  4 21 112 17   45.0  0.361  1.190  0.011 1344.   520.    -93.6  0.1880  0.32  0.19   3.60  359.0  15.0  290.5  2.0   0  0.00   32.  1006.    2 NAD-SFC NoSubs
 8  4 21 112 18    9.4 -9.000 -9.000 -9.000 1346. -999. -99999.0  0.0879  0.32  0.32   0.00    0.0  15.0  289.8  2.0   0  0.00   42.  1006.    2 NAD-SFC NoSubs
 8  4 21 112 19  -33.7  0.314 -9.000 -9.000 -999.  421.     82.1  0.1880  0.32  0.72   3.60  359.0  15.0  288.8  2.0   0  0.00   43.  1006.    2 NAD-SFC NoSubs
 8  4 21 112 20  -28.9  0.268 -9.000 -9.000 -999.  334.     59.6  0.1880  0.32  1.00   3.10  354.0  15.0  287.4  2.0   0  0.00   46.  1006.    2 NAD-SFC NoSubs
 8  4 21 112 21  -21.3  0.222 -9.000 -9.000 -999.  252.     46.0  0.1880  0.32  1.00   2.60  336.0  15.0  286.2  2.0   0  0.00   50.  1007.    2 NAD-SFC NoSubs
 8  4 21 112 22  -12.9  0.170 -9.000 -9.000 -999.  168.     33.9  0.1620  0.32  1.00   2.10  328.0  15.0  284.9  2.0   0  0.00   54.  1007.    2 NAD-SFC NoSubs
 8  4 21 112 23   -6.9  0.125 -9.000 -9.000 -999.  106.     25.1  0.1880  0.32  1.00   1.50  334.0  15.0  283.9  2.0   0  0.00   58.  1007.    2 NAD-SFC NoSubs
 8  4 21 112 24  -12.9  0.169 -9.000 -9.000 -999.  167.     33.8  0.1620  0.32  1.00   2.10  327.0  15.0  283.0  2.0   0  0.00   61.  1007.    2 NAD-SFC NoSubs
 8  4 22 113  1  -20.2  0.214 -9.000 -9.000 -999.  237.     43.3  0.1620  0.32  1.00   2.60  326.0  15.0  282.2  2.0   0  0.00   64.  1007.    2 NAD-SFC NoSubs
 8  4 22 113  2  -13.8  0.176 -9.000 -9.000 -999.  177.     35.5  0.1880  0.32  1.00   2.10  340.0  15.0  281.8  2.0   0  0.00   68.  1007.    2 NAD-SFC NoSubs
 8  4 22 113  3   -3.6  0.096 -9.000 -9.000 -999.   73.     22.0  0.1880  0.32  1.00   1.00  360.0  15.0  281.1  2.0   0  0.00   71.  1007.    2 NAD-SFC NoSubs
 8  4 22 113  4   -1.5  0.081 -9.000 -9.000 -999.   55.     31.5  0.1900  0.32  1.00   0.50   27.0  15.0  280.6  2.0   0  0.00   75.  1007.    2 NAD-SFC NoSubs
 8  4 22 113  5   -1.5  0.081 -9.000 -9.000 -999.   55.     31.6  0.1900  0.32  1.00   0.50   20.0  15.0  280.1  2.0   0  0.00   78.  1007.    2 NAD-SFC NoSubs
 8  4 22 113  6    5.9 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  0.63   0.00    0.0  15.0  279.5  2.0   0  0.00   82.  1008.    2 NAD-SFC NoSubs
 8  4 22 113  7   13.3 -9.000 -9.000 -9.000  101. -999. -99999.0  0.0879  0.32  0.29   0.00    0.0  15.0  280.6  2.0   0  0.00   77.  1008.    2 NAD-SFC NoSubs
 8  4 22 113  8   49.0 -9.000 -9.000 -9.000  279. -999. -99999.0  0.0879  0.32  0.18   0.00    0.0  15.0  282.8  2.0   0  0.00   67.  1008.    2 NAD-SFC NoSubs
 8  4 22 113  9   80.4 -9.000 -9.000 -9.000  381. -999. -99999.0  0.0879  0.32  0.15   0.00    0.0  15.0  284.4  2.0   0  0.00   59.  1007.    2 NAD-SFC NoSubs
 8  4 22 113 10  105.2 -9.000 -9.000 -9.000  547. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  286.2  2.0   0  0.00   50.  1007.    2 NAD-SFC NoSubs
 8  4 22 113 11  122.1 -9.000 -9.000 -9.000  689. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  288.1  2.0   0  0.00   43.  1006.    2 NAD-SFC NoSubs
 8  4 22 113 12  130.4 -9.000 -9.000 -9.000  795. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  289.8  2.0   0  0.00   37.  1005.    2 NAD-SFC NoSubs
 8  4 22 113 13  130.0  0.106  1.476  0.010  887.   83.     -1.0  0.1880  0.32  0.14   0.50  332.0  15.0  290.8  2.0   0  0.00   34.  1005.    2 NAD-SFC NoSubs
 8  4 22 113 14  121.0  0.105  1.483  0.011  966.   81.     -1.0  0.1880  0.32  0.14   0.50  347.0  15.0  291.5  2.0   0  0.00   33.  1004.    2 NAD-SFC NoSubs
 8  4 22 113 15  103.3  0.204  1.428  0.011 1010.  220.     -7.3  0.1900  0.32  0.14   1.50   11.0  15.0  291.9  2.0   0  0.00   32.  1004.    2 NAD-SFC NoSubs
 8  4 22 113 16   77.8  0.249  1.312  0.011 1040.  298.    -17.7  0.1900  0.32  0.16   2.10   19.0  15.0  292.0  2.0   0  0.00   33.  1004.    2 NAD-SFC NoSubs
 8  4 22 113 17   46.3  0.220  1.110  0.011 1057.  247.    -20.5  0.1280  0.32  0.19   2.10   51.0  15.0  291.6  2.0   0  0.00   41.  1004.    3 NAD-SFC NoSubs
 8  4 22 113 18   11.1  0.197  0.690  0.011 1061.  211.    -62.3  0.1280  0.32  0.31   2.10   49.0  15.0  291.2  2.0   0  0.00   42.  1004.    3 NAD-SFC NoSubs
 8  4 22 113 19    1.8 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  0.71   0.00    0.0  15.0  290.6  2.0   0  0.00   45.  1005.    3 NAD-SFC NoSubs
 8  4 22 113 20   -7.5  0.122 -9.000 -9.000 -999.  102.     21.4  0.0310  0.32  1.00   2.10  255.0  15.0  289.9  2.0   0  0.00   51.  1005.    3 NAD-SFC NoSubs
 8  4 22 113 21  -22.7  0.217 -9.000 -9.000 -999.  243.     40.3  0.0310  0.32  1.00   3.60  267.0  15.0  288.5  2.0   0  0.00   66.  1005.    3 NAD-SFC NoSubs
 8  4 22 113 22  -31.1  0.295 -9.000 -9.000 -999.  384.     74.0  0.0780  0.32  1.00   4.10  280.0  15.0  287.1  2.0   0  0.00   80.  1006.    3 NAD-SFC NoSubs
 8  4 22 113 23  -31.2  0.295 -9.000 -9.000 -999.  384.     73.7  0.0780  0.32  1.00   4.10  292.0  15.0  285.8  2.0   0  0.00   88.  1007.    3 NAD-SFC NoSubs
 8  4 22 113 24  -22.1  0.219 -9.000 -9.000 -999.  249.     42.8  0.0780  0.32  1.00   3.10  290.0  15.0  284.9  2.0   0  0.00   91.  1006.    3 NAD-SFC NoSubs
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8	4	23	114	1	-15.1	0.182	-9.000	-9.000	-999.	186.	35.7	0.0780	0.32	1.00	2.60	294.0	15.0	284.8	2.0	0	0.00	91.	1006.	4	NAD-SFC	NoSubs
8	4	23	114	2	-4.8	0.103	-9.000	-9.000	-999.	82.	20.5	0.0780	0.32	1.00	1.50	292.0	15.0	284.6	2.0	0	0.00	91.	1006.	5	NAD-SFC	NoSubs
8	4	23	114	3	-2.1	0.081	-9.000	-9.000	-999.	56.	22.8	0.1620	0.32	1.00	1.00	311.0	15.0	284.8	2.0	0	0.00	91.	1006.	10	NAD-SFC	NoSubs
8	4	23	114	4	-4.2	0.102	-9.000	-9.000	-999.	79.	22.8	0.0780	0.32	1.00	1.50	296.0	15.0	284.8	2.0	0	0.25	92.	1006.	8	NAD-SFC	NoSubs
8	4	23	114	5	-4.2	0.102	-9.000	-9.000	-999.	79.	22.8	0.0780	0.32	1.00	1.50	277.0	15.0	284.6	2.0	0	0.25	94.	1006.	8	NAD-SFC	NoSubs
8	4	23	114	6	-4.3	0.102	-9.000	-9.000	-999.	79.	22.6	0.0780	0.32	0.62	1.50	281.0	15.0	284.6	2.0	0	0.25	94.	1006.	7	NAD-SFC	NoSubs
8	4	23	114	7	11.1	0.139	0.360	0.005	150.	124.	-21.5	0.0780	0.32	0.28	1.50	286.0	15.0	284.5	2.0	0	0.25	94.	1007.	8	NAD-SFC	NoSubs
8	4	23	114	8	10.5	0.286	0.406	0.005	227.	367.	-199.6	0.0780	0.32	0.18	3.60	291.0	15.0	284.9	2.0	0	0.25	86.	1007.	10	NAD-SFC	NoSubs
8	4	23	114	9	18.5	0.254	0.536	0.005	300.	308.	-79.7	0.1620	0.32	0.15	2.60	306.0	15.0	285.6	2.0	0	0.00	80.	1007.	10	NAD-SFC	NoSubs
8	4	23	114	10	24.8	0.175	0.638	0.005	376.	178.	-19.4	0.1880	0.32	0.14	1.50	338.0	15.0	286.8	2.0	0	0.00	73.	1007.	10	NAD-SFC	NoSubs
8	4	23	114	11	29.1	0.135	0.706	0.005	434.	119.	-7.5	0.1880	0.32	0.14	1.00	336.0	15.0	287.8	2.0	0	0.00	68.	1007.	10	NAD-SFC	NoSubs
8	4	23	114	12	31.2	0.088	0.750	0.005	485.	62.	-1.9	0.1880	0.32	0.14	0.50	333.0	15.0	288.2	2.0	0	0.00	65.	1007.	10	NAD-SFC	NoSubs
8	4	23	114	13	31.1	0.085	0.772	0.005	532.	59.	-1.8	0.1620	0.32	0.14	0.50	309.0	15.0	288.8	2.0	0	0.00	62.	1007.	10	NAD-SFC	NoSubs
8	4	23	114	14	29.0	0.087	0.773	0.005	572.	61.	-2.0	0.1880	0.32	0.14	0.50	332.0	15.0	289.6	2.0	0	0.00	57.	1007.	10	NAD-SFC	NoSubs
8	4	23	114	15	83.2	0.100	1.165	0.005	682.	76.	-1.1	0.1880	0.32	0.14	0.50	338.0	15.0	290.2	2.0	0	0.00	53.	1006.	7	NAD-SFC	NoSubs
8	4	23	114	16	75.1	0.146	1.188	0.005	801.	134.	-3.7	0.1620	0.32	0.16	1.00	320.0	15.0	290.8	2.0	0	0.00	51.	1006.	5	NAD-SFC	NoSubs
8	4	23	114	17	45.3	0.142	1.030	0.005	865.	128.	-5.6	0.1900	0.32	0.19	1.00	2.0	15.0	290.8	2.0	0	0.00	51.	1006.	5	NAD-SFC	NoSubs
8	4	23	114	18	12.3	-9.000	-9.000	-9.000	881.	-999.	-99999.0	0.0879	0.32	0.31	0.00	0.0	15.0	290.6	2.0	0	0.00	54.	1006.	5	NAD-SFC	NoSubs
8	4	23	114	19	2.9	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	0.70	0.00	0.0	15.0	290.0	2.0	0	0.00	58.	1007.	5	NAD-SFC	NoSubs
8	4	23	114	20	-6.5	0.125	-9.000	-9.000	-999.	105.	26.7	0.1900	0.32	1.00	1.50	9.0	15.0	289.2	2.0	0	0.00	63.	1007.	5	NAD-SFC	NoSubs
8	4	23	114	21	-6.3	0.124	-9.000	-9.000	-999.	105.	27.4	0.1880	0.32	1.00	1.50	348.0	15.0	288.4	2.0	0	0.00	66.	1008.	6	NAD-SFC	NoSubs
8	4	23	114	22	-28.6	0.315	-9.000	-9.000	-999.	424.	98.3	0.1880	0.32	1.00	3.60	360.0	15.0	287.1	2.0	0	0.00	73.	1009.	6	NAD-SFC	NoSubs
8	4	23	114	23	-28.7	0.315	-9.000	-9.000	-999.	424.	97.7	0.1880	0.32	1.00	3.60	355.0	15.0	285.5	2.0	0	0.00	82.	1009.	6	NAD-SFC	NoSubs
8	4	23	114	24	-26.2	0.269	-9.000	-9.000	-999.	335.	66.6	0.1880	0.32	1.00	3.10	340.0	15.0	284.8	2.0	0	0.00	84.	1009.	5	NAD-SFC	NoSubs
8	4	24	115	1	-31.2	0.303	-9.000	-9.000	-999.	399.	79.9	0.1620	0.32	1.00	3.60	322.0	15.0	283.6	2.0	0	0.00	86.	1010.	4	NAD-SFC	NoSubs
8	4	24	115	2	-31.3	0.302	-9.000	-9.000	-999.	399.	79.6	0.1620	0.32	1.00	3.60	318.0	15.0	282.5	2.0	0	0.00	87.	1010.	4	NAD-SFC	NoSubs
8	4	24	115	3	-26.8	0.258	-9.000	-9.000	-999.	316.	57.9	0.1620	0.32	1.00	3.10	308.0	15.0	281.8	2.0	0	0.00	87.	1010.	4	NAD-SFC	NoSubs
8	4	24	115	4	-20.1	0.214	-9.000	-9.000	-999.	238.	43.8	0.1620	0.32	1.00	2.60	306.0	15.0	281.0	2.0	0	0.00	88.	1010.	3	NAD-SFC	NoSubs
8	4	24	115	5	-6.5	0.120	-9.000	-9.000	-999.	104.	24.1	0.1620	0.32	1.00	1.50	302.0	15.0	280.6	2.0	0	0.00	89.	1011.	3	NAD-SFC	NoSubs
8	4	24	115	6	-2.1	0.074	-9.000	-9.000	-999.	49.	17.0	0.0310	0.32	0.60	1.00	264.0	15.0	280.2	2.0	0	0.00	89.	1011.	3	NAD-SFC	NoSubs
8	4	24	115	7	15.6	0.168	0.340	0.007	90.	165.	-27.3	0.1880	0.32	0.28	1.50	348.0	15.0	281.8	2.0	0	0.00	78.	1012.	3	NAD-SFC	NoSubs
8	4	24	115	8	50.8	0.093	0.709	0.006	253.	70.	-1.4	0.1900	0.32	0.18	0.50	10.0	15.0	283.2	2.0	0	0.00	70.	1012.	3	NAD-SFC	NoSubs
8	4	24	115	9	81.8	-9.000	-9.000	-9.000	369.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	284.8	2.0	0	0.00	63.	1012.	3	NAD-SFC	NoSubs
8	4	24	115	10	106.2	-9.000	-9.000	-9.000	526.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	286.5	2.0	0	0.00	56.	1012.	2	NAD-SFC	NoSubs
8	4	24	115	11	123.0	-9.000	-9.000	-9.000	681.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	288.1	2.0	0	0.00	50.	1011.	2	NAD-SFC	NoSubs
8	4	24	115	12	131.2	-9.000	-9.000	-9.000	857.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	289.8	2.0	0	0.00	44.	1010.	2	NAD-SFC	NoSubs
8	4	24	115	13	130.9	-9.000	-9.000	-9.000	1004.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	291.2	2.0	0	0.00	38.	1009.	2	NAD-SFC	NoSubs
8	4	24	115	14	121.9	0.102	1.562	0.007	1127.	78.	-1.0	0.1620	0.32	0.14	0.50	315.0	15.0	292.4	2.0	0	0.00	33.	1009.	2	NAD-SFC	NoSubs
8	4	24	115	15	104.3	0.203	1.525	0.008	1223.	220.	-7.2	0.1880	0.32	0.14	1.50	341.0	15.0	293.2	2.0	0	0.00	29.	1008.	2	NAD-SFC	NoSubs
8	4	24	115	16	79.0	0.291	1.416	0.009	1292.	377.	-28.0	0.1900	0.32	0.15	2.60	2.0	15.0	294.1	2.0	0	0.00	27.	1007.	2	NAD-SFC	NoSubs
8	4	24	115	17	47.0	0.321	1.203	0.009	1330.	436.	-62.9	0.1900	0.32	0.19	3.10	9.0	15.0	293.9	2.0	0	0.00	28.	1007.	2	NAD-SFC	NoSubs
8	4	24	115	18	11.4	0.256	0.752	0.009	1336.	313.	-132.2	0.1900	0.32	0.31	2.60	14.0	15.0	293.2	2.0	0	0.00	38.	1008.	2	NAD-SFC	NoSubs
8	4	24	115	19	-1.1	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	0.69	0.00	0.0	15.0	292.2	2.0	0	0.00	40.	1008.	2	NAD-SFC	NoSubs
8	4	24	115	20	-13.6	0.176	-9.000	-9.000	-999.	178.	36.2	0.1880	0.32	1.00	2.10	350.0	15.0	291.2	2.0	0	0.00	43.	1009.	2	NAD-SFC	NoSubs
8	4	24	115	21	-3.3	0.093	-9.000	-9.000	-999.	70.	21.4	0.1620	0.32	1.00	1.00	321.0	15.0	290.0	2.0	0	0.00	47.	1009.	2	NAD-SFC	NoSubs
8	4	24	115	22	-6.5	0.120	-9.000	-9.000	-999.	100.	24.1	0.1620	0.32	1.00	1.50	306.0	15.0	288.8	2.0	0	0.00	50.	1009.	2	NAD-SFC	NoSubs
8	4	24	115	23	-5.2	0.104	-9.000	-9.000	-999.	81.	19.9	0.0780	0.32	1.00	1.50	297.0	15.0	287.6	2.0	0	0.00	54.	1010.	2	NAD-SFC	NoSubs
8	4	24	115	24	-3.4	0.093	-9.000	-9.000	-999.	68.	21.5	0.1620	0.32	1.00	1.00	314.0	15.0	286.5	2.0	0	0.00	57.	1010.	2	NAD-SFC	NoSubs
8	4	25	116	1	-1.5	0.080	-9.000	-9.000	-999.	55.	31.3	0.1880	0.32	1.00	0.50	349.0	15.0	285.8	2.0	0	0.00	59.	1010.	2	NAD-SFC	NoSubs
8	4	25	116	2	-3.5	0.095	-9.000	-9.000	-999.	70.	22.0	0.1880	0.32	1.00	1.00	333.0	15.0	285.2	2.0	0	0.00	62.	1010.	2	NAD-SFC	NoSubs
8	4	25	116	3	-5.2	0.105	-9.000	-9.000	-999.	81.	19.8	0.0780	0.32	1.00	1.50	298.0	15.0	284.5	2.0	0	0.00	64.	1010.	2	NAD-SFC	NoSubs
8	4	25	116	4	-13.0	0.169	-9.000	-9.000	-999.	167.	33.8	0.1620	0.32	1.00	2.10	302.0	15.0	283.8	2.0	0	0.00	66.	1010.	2	NAD-SFC	NoSubs
8	4	25	116	5	-6.6	0.121	-9.000	-9.000	-999.	101.	23.9	0.1620	0.32	1.00	1.50	300.0	15.0	283.2	2.0	0	0.00	68.	1010.	2	NAD-SFC	NoSubs
8	4	25	116	6	-1.3	0.076	-9.000	-9.000	-999.	51.	30.1	0.1620	0.32	0.59	0.50	302.0	15.0	282.8	2.0	0	0.00	68.	1011.	2	NAD-SFC	NoSubs
8	4	25	116	7	15.7	0.126	0.333	0.011	85.	107.	-11.4	0.1880	0.32	0.28	1.00	345.0	15.0	284.0	2.0	0	0.00	63.	1011.	2	NAD-SFC	NoSubs
8	4	25	116	8	51.3	-9.000	-9.000	-9.000	172.	-999.	-99999.0	0.0879	0.32	0.18	0.00	0.0	15.0	285.9	2.0	0	0.00	57.	1011.	2	NAD-SFC	NoSubs
8	4	25	116	9	82.7	-9.000	-9.000	-9.000	279.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	288.4	2.0	0	0.00	47.	1011.	2	NAD-SFC	NoSubs
8	4	25	116	10	107.4	-9.000	-9.000	-9.000	386.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	290.4	2.0	0	0.00	42.	1010.	2	NAD-SFC	NoSubs
8	4	25	116	11	124.3	-9.000	-9.000	-9.000	566.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	292.6	2.0	0	0.00	35.	1010.	2	NAD-SFC	NoSubs
8	4	25	116	12	132.5	0.089	1.377	0.009	709.	64.	-1.0	0.0780	0.32	0.14	0.50	296.0	15.0	294.2	2.0	0	0.00	31.	1009.	2	NAD-SFC	NoSubs
8	4	25	116	13	132.3	0.103	1.447	0.010	824.	79.	-1.0	0.1620	0.32	0.14	0.50	312.0	15.0	295.9	2.0	0	0.00	28.	1008.	2	NAD-SFC	NoSubs
8	4	25	116	14	123.4	0.207	1.466	0.010	918.	226.	-6.4	0.1880	0.32	0.14	1.50	344.0	15.0	297.1	2.0	0	0.00	25.	1007.	2	NAD-SFC	NoSubs
8	4	25	116	15	105.8	0.340	1.426	0.010	984.	476.	-33.3	0.1880	0.32	0.14	3.10	350.0	15.0	297.5	2.0	0	0.00	24.	1006.	2	NAD-SFC	NoSubs
8	4	25	116	16	80.3	-9.000	-9.000	-9.000	1015.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	297.4	2.0	0	0.00	26.	1006.	2	NAD-SFC	NoSubs
8	4	25	116	17	48.2	0.321	1.115	0.009	1033.	437.	-61.7	0.1900	0.32	0.19	3.10	15.0	15.0	296.8	2.0	0	0.00	35.	1006.	2	NAD-SFC	NoSubs
8	4	25	116	18	12.5	0.300	0.713	0.009	1037.	394.	-192.9	0.1900	0.32	0.31	3.10	5.0	15.0	295.9	2.0	0	0.00	41.	1006.	2	NAD-SFC	NoSubs
8	4	25	116	19	-27.9	0.268	-9.000	-9.000	-999.	334.	62.0	0.1880	0.32	0.69	3.10	346.0	15.0	295.0	2.0	0	0.00	42.	1006.	2	NAD-SFC	NoSubs
8	4	25	116	20	-21.1	0.222	-9.000	-9.000	-999.	252.	46.7	0.1880	0.32	1.00	2.60	336.0	15.0	293.8	2.0	0	0.00	45.	1007.	2	NAD-SFC	NoSubs
8	4	25	116	21	-6.5	0.120	-9.000	-9.000	-999.	105.	24.2	0.1620	0.32	1.00	1.50	328.0	15.0	292.5	2.0	0	0.00	49.	1007.	2	NAD-SFC	NoSubs
8	4	25	116	22	-1.2	0.072	-9.000	-9.000	-999.	47.	28.9	0.0780	0.32	1.00	0.50	277.0	15.0	291.2	2.0	0	0.00	53.	1007.	2	NAD-SFC	NoSubs
8	4	25	116	23	-2.7	0.084	-9.000	-9.000	-999.	58.	19.4	0.0780	0.32	1.00	1.00	277.0	15.0	290.1	2.0	0	0.00	57.	1007.	2	NAD-SFC	NoSubs
8	4	25	116	24	-5.1	0.104	-9.000	-9.000	-999.	81.	19.9	0.0780	0.32	1.00	1.50	288.0	15.0	289.2	2.0	0	0.00	60.	1007.	2	NAD-SFC	NoSubs
8	4	26	117	1	-2.8	0.084	-9.000	-9.000	-999.	59.	19.4	0.0780	0.32	1.00	1.00	299.0	15.0	288.4	2.0	0	0.00	62.	1007.	2	NAD-SFC	NoSubs
8	4	26	117	2	-3.3	0.093	-9.000	-9.000	-999.	68.	21.5	0.1620	0.32	1.00	1.00	300.0	15.0	287.8	2.0	0	0.00	64.	1007.	2	NAD-SFC	NoSubs
8	4	26	117	3	-2.8	0.084	-9.000	-9.000	-999.	59.	19.4	0.0780	0.32	1.00	1.00	279.0	15.0	287.1	2.0	0	0.00	66.	1007.	2	NAD-SFC	NoSubs
8	4	26	117	4	-5.2	0.104	-9.000	-9.000	-999.	81.	19.9	0.0780	0.32	1.00	1.50	270.0	15.0	286.8	2.0	0	0.00	69.	1007.	2	NAD-SFC	NoSubs
8	4	26	117	5	-4.1	0.091	-9.000	-9.000	-999.	66.	16.4	0.0310	0.32	1.00	1.50	267.0	15.0	286.4	2.0	0	0.00	71.	1007.	2	NAD-SFC	NoSubs

8	4	26	117	6	-4.8	0.103	-9.000	-9.000	-999.	80.	20.6	0.0780	0.32	0.58	1.50	271.0	15.0	286.2	2.0	0	0.00	72.	1008.	2	NAD-SFC	NoSubs
8	4	26	117	7	16.9	0.143	0.319	0.008	69.	130.	-15.7	0.0780	0.32	0.27	1.50	289.0	15.0	287.6	2.0	0	0.00	68.	1008.	2	NAD-SFC	NoSubs
8	4	26	117	8	52.5	0.079	0.661	0.007	198.	54.	-1.0	0.0780	0.32	0.18	0.50	287.0	15.0	289.8	2.0	0	0.00	61.	1008.	2	NAD-SFC	NoSubs
8	4	26	117	9	83.9	0.071	0.911	0.006	324.	45.	-1.0	0.0310	0.32	0.15	0.50	265.0	15.0	291.8	2.0	0	0.00	53.	1008.	2	NAD-SFC	NoSubs
8	4	26	117	10	108.6	0.087	1.135	0.006	484.	61.	-1.0	0.0780	0.32	0.14	0.50	270.0	15.0	293.6	2.0	0	0.00	48.	1007.	2	NAD-SFC	NoSubs
8	4	26	117	11	125.4	0.102	1.326	0.008	668.	78.	-1.0	0.1620	0.32	0.14	0.50	302.0	15.0	295.2	2.0	0	0.00	44.	1007.	2	NAD-SFC	NoSubs
8	4	26	117	12	133.6	-9.000	-9.000	-9.000	798.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	296.8	2.0	0	0.00	41.	1006.	2	NAD-SFC	NoSubs
8	4	26	117	13	133.3	0.103	1.501	0.010	911.	79.	-1.0	0.1620	0.32	0.14	0.50	319.0	15.0	298.2	2.0	0	0.00	39.	1005.	2	NAD-SFC	NoSubs
8	4	26	117	14	124.4	0.160	1.509	0.010	990.	154.	-3.0	0.1880	0.32	0.14	1.00	336.0	15.0	299.2	2.0	0	0.00	36.	1004.	2	NAD-SFC	NoSubs
8	4	26	117	15	106.9	0.256	1.454	0.010	1032.	311.	-14.1	0.1880	0.32	0.14	2.10	340.0	15.0	300.0	2.0	0	0.00	35.	1004.	2	NAD-SFC	NoSubs
8	4	26	117	16	81.5	0.333	1.342	0.010	1062.	461.	-40.5	0.1880	0.32	0.15	3.10	348.0	15.0	300.1	2.0	0	0.00	36.	1003.	2	NAD-SFC	NoSubs
8	4	26	117	17	49.5	0.280	1.143	0.010	1080.	357.	-39.7	0.1880	0.32	0.19	2.60	358.0	15.0	299.8	2.0	0	0.00	43.	1003.	2	NAD-SFC	NoSubs
8	4	26	117	18	13.8	-9.000	-9.000	-9.000	1084.	-999.	-99999.0	0.0879	0.32	0.30	0.00	0.0	15.0	298.9	2.0	0	0.00	49.	1003.	2	NAD-SFC	NoSubs
8	4	26	117	19	-27.5	0.269	-9.000	-9.000	-999.	335.	63.3	0.1900	0.32	0.68	3.10	6.0	15.0	297.8	2.0	0	0.00	51.	1004.	2	NAD-SFC	NoSubs
8	4	26	117	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	296.5	2.0	0	0.00	53.	1004.	2	NAD-SFC	NoSubs
8	4	26	117	21	-3.3	0.092	-9.000	-9.000	-999.	67.	21.4	0.1620	0.32	1.00	1.00	316.0	15.0	295.2	2.0	0	0.00	57.	1004.	2	NAD-SFC	NoSubs
8	4	26	117	22	-2.7	0.084	-9.000	-9.000	-999.	58.	19.3	0.0780	0.32	1.00	1.00	287.0	15.0	294.1	2.0	0	0.00	61.	1004.	2	NAD-SFC	NoSubs
8	4	26	117	23	-1.2	0.072	-9.000	-9.000	-999.	47.	28.8	0.0780	0.32	1.00	0.50	278.0	15.0	293.2	2.0	0	0.00	65.	1005.	2	NAD-SFC	NoSubs
8	4	26	117	24	-1.4	0.078	-9.000	-9.000	-999.	53.	30.7	0.1620	0.32	1.00	0.50	309.0	15.0	292.2	2.0	0	0.00	69.	1005.	2	NAD-SFC	NoSubs
8	4	27	118	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	291.6	2.0	0	0.00	72.	1005.	2	NAD-SFC	NoSubs
8	4	27	118	2	-1.0	0.067	-9.000	-9.000	-999.	42.	26.8	0.0340	0.32	1.00	0.50	231.0	15.0	290.8	2.0	0	0.00	74.	1005.	2	NAD-SFC	NoSubs
8	4	27	118	3	-4.1	0.091	-9.000	-9.000	-999.	66.	16.5	0.0310	0.32	1.00	1.50	260.0	15.0	290.1	2.0	0	0.00	76.	1006.	2	NAD-SFC	NoSubs
8	4	27	118	4	-9.9	0.144	-9.000	-9.000	-999.	131.	27.1	0.0780	0.32	1.00	2.10	274.0	15.0	289.5	2.0	0	0.00	77.	1006.	2	NAD-SFC	NoSubs
8	4	27	118	5	-9.9	0.144	-9.000	-9.000	-999.	131.	27.0	0.0780	0.32	1.00	2.10	285.0	15.0	289.0	2.0	0	0.00	77.	1006.	2	NAD-SFC	NoSubs
8	4	27	118	6	-9.3	0.145	-9.000	-9.000	-999.	132.	29.2	0.0780	0.32	0.57	2.10	292.0	15.0	288.6	2.0	0	0.00	75.	1007.	2	NAD-SFC	NoSubs
8	4	27	118	7	17.9	0.186	0.319	0.008	65.	193.	-32.5	0.0780	0.32	0.27	2.10	297.0	15.0	289.8	2.0	0	0.00	67.	1007.	2	NAD-SFC	NoSubs
8	4	27	118	8	53.6	0.183	0.616	0.008	157.	188.	-10.3	0.1620	0.32	0.18	1.50	302.0	15.0	292.4	2.0	0	0.00	52.	1007.	2	NAD-SFC	NoSubs
8	4	27	118	9	85.1	0.084	0.872	0.007	279.	63.	-1.0	0.0780	0.32	0.15	0.50	298.0	15.0	294.9	2.0	0	0.00	43.	1007.	2	NAD-SFC	NoSubs
8	4	27	118	10	109.9	-9.000	-9.000	-9.000	423.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	297.2	2.0	0	0.00	34.	1006.	2	NAD-SFC	NoSubs
8	4	27	118	11	126.9	0.105	1.303	0.007	626.	82.	-1.0	0.1880	0.32	0.14	0.50	358.0	15.0	299.2	2.0	0	0.00	29.	1006.	2	NAD-SFC	NoSubs
8	4	27	118	12	135.2	-9.000	-9.000	-9.000	759.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	300.9	2.0	0	0.00	25.	1005.	2	NAD-SFC	NoSubs
8	4	27	118	13	134.9	-9.000	-9.000	-9.000	866.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	302.1	2.0	0	0.00	23.	1004.	2	NAD-SFC	NoSubs
8	4	27	118	14	125.9	0.260	1.497	0.007	955.	319.	-12.5	0.1880	0.32	0.14	2.10	357.0	15.0	302.8	2.0	0	0.00	23.	1003.	2	NAD-SFC	NoSubs
8	4	27	118	15	108.1	-9.000	-9.000	-9.000	1021.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	302.8	2.0	0	0.00	25.	1003.	2	NAD-SFC	NoSubs
8	4	27	118	16	82.4	0.334	1.349	0.007	1066.	463.	-40.4	0.1900	0.32	0.15	3.10	14.0	15.0	301.9	2.0	0	0.00	34.	1003.	2	NAD-SFC	NoSubs
8	4	27	118	17	50.2	0.364	1.153	0.007	1092.	527.	-85.9	0.1900	0.32	0.19	3.60	19.0	15.0	300.6	2.0	0	0.00	45.	1002.	2	NAD-SFC	NoSubs
8	4	27	118	18	14.3	0.344	0.760	0.007	1096.	485.	-254.9	0.1900	0.32	0.30	3.60	16.0	15.0	299.2	2.0	0	0.00	49.	1003.	2	NAD-SFC	NoSubs
8	4	27	118	19	-31.9	0.315	-9.000	-9.000	-999.	425.	87.5	0.1900	0.32	0.67	3.60	25.0	15.0	298.6	2.0	0	0.00	48.	1003.	2	NAD-SFC	NoSubs
8	4	27	118	20	-13.4	0.177	-9.000	-9.000	-999.	191.	36.8	0.1900	0.32	1.00	2.10	17.0	15.0	297.8	2.0	0	0.00	49.	1003.	2	NAD-SFC	NoSubs
8	4	27	118	21	-1.4	0.078	-9.000	-9.000	-999.	59.	30.6	0.1620	0.32	1.00	0.50	320.0	15.0	296.8	2.0	0	0.00	52.	1003.	2	NAD-SFC	NoSubs
8	4	27	118	22	-22.0	0.219	-9.000	-9.000	-999.	247.	43.0	0.0780	0.32	1.00	3.10	275.0	15.0	295.2	2.0	0	0.00	56.	1003.	2	NAD-SFC	NoSubs
8	4	27	118	23	-27.1	0.257	-9.000	-9.000	-999.	313.	56.3	0.0780	0.32	1.00	3.60	291.0	15.0	294.4	2.0	0	0.00	58.	1004.	2	NAD-SFC	NoSubs
8	4	27	118	24	-27.2	0.258	-9.000	-9.000	-999.	315.	56.7	0.1620	0.32	1.00	3.10	313.0	15.0	294.0	2.0	0	0.00	57.	1003.	2	NAD-SFC	NoSubs
8	4	28	119	1	-28.3	0.268	-9.000	-9.000	-999.	333.	61.0	0.1880	0.32	1.00	3.10	330.0	15.0	293.5	2.0	0	0.00	59.	1003.	2	NAD-SFC	NoSubs
8	4	28	119	2	-21.0	0.222	-9.000	-9.000	-999.	252.	46.6	0.1880	0.32	1.00	2.60	347.0	15.0	292.8	2.0	0	0.00	63.	1003.	2	NAD-SFC	NoSubs
8	4	28	119	3	-21.1	0.222	-9.000	-9.000	-999.	251.	46.5	0.1880	0.32	1.00	2.60	330.0	15.0	291.8	2.0	0	0.00	71.	1003.	2	NAD-SFC	NoSubs
8	4	28	119	4	-12.7	0.170	-9.000	-9.000	-999.	168.	34.3	0.1620	0.32	1.00	2.10	320.0	15.0	290.9	2.0	0	0.00	75.	1003.	2	NAD-SFC	NoSubs
8	4	28	119	5	-6.5	0.120	-9.000	-9.000	-999.	101.	24.2	0.1620	0.32	1.00	1.50	309.0	15.0	290.5	2.0	0	0.00	77.	1003.	2	NAD-SFC	NoSubs
8	4	28	119	6	-4.7	0.103	-9.000	-9.000	-999.	79.	21.0	0.0780	0.32	0.57	1.50	291.0	15.0	290.2	2.0	0	0.00	77.	1004.	2	NAD-SFC	NoSubs
8	4	28	119	7	18.6	0.108	0.384	0.014	109.	85.	-6.1	0.0780	0.32	0.27	1.00	279.0	15.0	290.1	2.0	0	0.00	77.	1004.	2	NAD-SFC	NoSubs
8	4	28	119	8	53.9	0.183	0.656	0.012	188.	188.	-10.2	0.1620	0.32	0.18	1.50	327.0	15.0	290.8	2.0	0	0.00	72.	1004.	2	NAD-SFC	NoSubs
8	4	28	119	9	84.9	-9.000	-9.000	-9.000	270.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	291.8	2.0	0	0.00	68.	1004.	2	NAD-SFC	NoSubs
8	4	28	119	10	109.4	-9.000	-9.000	-9.000	349.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	293.4	2.0	0	0.00	62.	1004.	2	NAD-SFC	NoSubs
8	4	28	119	11	126.1	-9.000	-9.000	-9.000	468.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	295.1	2.0	0	0.00	53.	1003.	2	NAD-SFC	NoSubs
8	4	28	119	12	134.2	-9.000	-9.000	-9.000	611.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	296.4	2.0	0	0.00	49.	1003.	2	NAD-SFC	NoSubs
8	4	28	119	13	133.8	0.106	1.410	0.006	749.	83.	-1.0	0.1880	0.32	0.14	0.50	350.0	15.0	297.5	2.0	0	0.00	45.	1002.	2	NAD-SFC	NoSubs
8	4	28	119	14	124.8	0.161	1.447	0.007	869.	155.	-3.0	0.1900	0.32	0.14	1.00	9.0	15.0	298.2	2.0	0	0.00	43.	1001.	2	NAD-SFC	NoSubs
8	4	28	119	15	107.1	0.257	1.423	0.007	960.	313.	-14.1	0.1900	0.32	0.14	2.10	20.0	15.0	298.6	2.0	0	0.00	43.	1000.	2	NAD-SFC	NoSubs
8	4	28	119	16	81.7	0.231	1.324	0.006	1014.	268.	-13.5	0.1280	0.32	0.15	2.10	33.0	15.0	298.4	2.0	0	0.00	51.	1000.	2	NAD-SFC	NoSubs
8	4	28	119	17	49.8	0.239	1.134	0.006	1044.	280.	-24.4	0.1900	0.32	0.19	2.10	22.0	15.0	298.1	2.0	0	0.00	54.	1000.	2	NAD-SFC	NoSubs
8	4	28	119	18	14.2	0.216	0.749	0.006	1051.	242.	-63.6	0.1880	0.32	0.30	2.10	335.0	15.0	297.5	2.0	0	0.00	57.	1000.	2	NAD-SFC	NoSubs
8	4	28	119	19	-26.2	0.259	-9.000	-9.000	-999.	315.	58.9	0.1620	0.32	0.66	3.10	314.0	15.0	296.8	2.0	0	0.00	59.	1001.	2	NAD-SFC	NoSubs
8	4	28	119	20	-30.8	0.303	-9.000	-9.000	-999.	399.	80.4	0.1620	0.32	1.00	3.60	311.0	15.0	295.9	2.0	0	0.00	63.	1001.	3	NAD-SFC	NoSubs
8	4	28	119	21	-30.9	0.303	-9.000	-9.000	-999.	399.	80.0	0.1620	0.32	1.00	3.60	317.0	15.0	294.5	2.0	0	0.00	69.	1001.	3	NAD-SFC	NoSubs
8	4	28	119	22	-32.2	0.314	-9.000	-9.000	-999.	422.	85.7	0.1880	0.32	1.00	3.60	337.0	15.0	293.2	2.0	0	0.00	76.	1002.	3	NAD-SFC	NoSubs
8	4	28	119	23	-37.1	0.359	-9.000	-9.000	-999.	517.	111.9	0.1880	0.32	1.00	4.10	337.0	15.0	292.0	2.0	0	0.00	80.	1002.	3	NAD-SFC	NoSubs
8	4	28	119	24	-32.5	0.314	-9.000	-9.000	-999.	423.	85.0	0.1880	0.32	1.00	3.60	340.0	15.0	290.9	2.0	0	0.00	81.	1002.	3	NAD-SFC	NoSubs
8	4	29	120	1	-31.5	0.314	-9.000	-9.000	-999.	422.	88.0	0.1880	0.32	1.00	3.60	336.0	15.0	289.8	2.0	0	0.00	81.	1003.	4	NAD-SFC	NoSubs
8	4	29	120	2	-27.0	0.268	-9.000	-9.000	-999.	335.	64.1	0.1880	0.32	1.00	3.10	339.0	15.0	288.8	2.0	0	0.00	81.	1003.	4	NAD-SFC	NoSubs
8	4	29	120	3	-25.8	0.269	-9.000	-9.000	-999.	334.	67.4	0.1880	0.32	1.00	3.10	337.0	15.0	288.0	2.0	0	0.00	80.	1003.	5	NAD-SFC	NoSubs
8	4	29	120	4	-20.1	0.223	-9.000	-9.000	-999.	253.	49.2	0.1880	0.32	1.00	2.60	338.0	15.0	287.4	2.0	0	0.00	79.	1003.	5	NAD-SFC	NoSubs
8	4	29	120	5	-20.2	0.223	-9.000	-9.000	-999.	253.	49.2	0.1880	0.32	1.00	2.60	339.0	15.0	286.8	2.0	0	0.00	78.	1004.	5	NAD-SFC	NoSubs
8	4	29	120	6	-12.1	0.178	-9.000	-9.000	-999.	181.	42.0	0.1880	0.32	0.56	2.10	342.0	15.0	286.2	2.0	0	0.00	78.	1005.	4	NAD-SFC	NoSubs
8	4	29	120	7	19.4	0.347	0.461	0.008	181.	491.	-193.2	0.1880	0.32	0.27	3.60	337.0	15.0	286.8	2.0	0	0.00	65.	1005.	3	NAD-SFC	NoSubs
8	4	29	120	8	54.3	0.282	0.816	0.008	359.	361.	-37.0	0.1880	0.32	0.18	2.60	343.0	15.0	287.6	2.0	0	0.00	61.	1005.	3	NAD-SFC	NoSubs
8	4	29	120	9	84.7	0.193	1.027	0.008	459.	206.	-7.6	0.1620	0.32	0.15	1.50	328.0	15.0	288.8	2.0	0	0.00	58.	1005.	2	NAD-SFC	NoSubs
8	4	29	120	10	109.1	0.198	1.185	0.007	547.	212.	-6.4	0.1620	0.32	0.14	1.50	324.0	15.0	290.2	2.0	0	0.00	53.	1005.	2	NAD-SFC	NoSubs

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 8  4 29 120 11   125.7  0.253  1.306  0.006   635.   305.    -11.5  0.1620  0.32  0.14   2.10  317.0  15.0  291.8  2.0   0  0.00   46.  1004.   2 NAD-SFC NoSubs
 8  4 29 120 12   133.6  0.336  1.407  0.006   747.   468.    -25.4  0.1620  0.32  0.14   3.10  328.0  15.0  292.8  2.0   0  0.00   42.  1003.   2 NAD-SFC NoSubs
 8  4 29 120 13   132.9  0.471  1.468  0.006   853.   775.    -70.1  0.1880  0.32  0.14   4.60  339.0  15.0  293.6  2.0   0  0.00   38.  1003.   3 NAD-SFC NoSubs
 8  4 29 120 14   123.8  0.561  1.482  0.006   941.  1007.   -127.5  0.1880  0.32  0.14   5.70  347.0  15.0  293.9  2.0   0  0.00   38.  1002.   3 NAD-SFC NoSubs
 8  4 29 120 15   106.2  0.599  1.446  0.007  1018.  1112.   -181.2  0.1880  0.32  0.14   6.20  353.0  15.0  293.8  2.0   0  0.00   40.  1002.   3 NAD-SFC NoSubs
 8  4 29 120 16    81.2  0.637  1.349  0.007  1080.  1217.   -283.5  0.1880  0.32  0.15   6.70  338.0  15.0  294.2  2.0   0  0.00   42.  1001.   3 NAD-SFC NoSubs
 8  4 29 120 17    49.6  0.585  1.156  0.007  1114.  1077.   -359.9  0.1880  0.32  0.19   6.20  338.0  15.0  293.4  2.0   0  0.00   48.  1001.   3 NAD-SFC NoSubs
 8  4 29 120 18    14.2  0.386  0.763  0.007  1119.   614.   -363.5  0.1880  0.32  0.30   4.10  342.0  15.0  292.0  2.0   0  0.00   58.  1002.   3 NAD-SFC NoSubs
 8  4 29 120 19   -40.7  0.405 -9.000 -9.000  -999.   619.    146.1  0.1880  0.32  0.65   4.60  342.0  15.0  290.1  2.0   0  0.00   65.  1002.   3 NAD-SFC NoSubs
 8  4 29 120 20   -42.3  0.405 -9.000 -9.000  -999.   619.    140.4  0.1880  0.32  1.00   4.60  342.0  15.0  288.5  2.0   0  0.00   69.  1003.   3 NAD-SFC NoSubs
 8  4 29 120 21   -42.5  0.405 -9.000 -9.000  -999.   619.    139.9  0.1880  0.32  1.00   4.60  345.0  15.0  287.4  2.0   0  0.00   71.  1003.   3 NAD-SFC NoSubs
 8  4 29 120 22   -37.8  0.359 -9.000 -9.000  -999.   518.    109.6  0.1880  0.32  1.00   4.10  345.0  15.0  286.2  2.0   0  0.00   74.  1003.   3 NAD-SFC NoSubs
 8  4 29 120 23   -38.0  0.359 -9.000 -9.000  -999.   517.    109.3  0.1880  0.32  1.00   4.10  333.0  15.0  285.4  2.0   0  0.00   76.  1004.   3 NAD-SFC NoSubs
 8  4 29 120 24   -36.7  0.346 -9.000 -9.000  -999.   489.    101.3  0.1620  0.32  1.00   4.10  309.0  15.0  284.8  2.0   0  0.00   80.  1004.   3 NAD-SFC NoSubs
 8  4 30 121  1   -36.8  0.346 -9.000 -9.000  -999.   489.    101.0  0.1620  0.32  1.00   4.10  310.0  15.0  283.9  2.0   0  0.00   81.  1004.   3 NAD-SFC NoSubs
 8  4 30 121  2   -35.6  0.346 -9.000 -9.000  -999.   489.    104.7  0.1620  0.32  1.00   4.10  312.0  15.0  283.2  2.0   0  0.00   81.  1004.   4 NAD-SFC NoSubs
 8  4 30 121  3   -31.1  0.302 -9.000 -9.000  -999.   400.     79.6  0.1620  0.32  1.00   3.60  314.0  15.0  282.6  2.0   0  0.00   82.  1004.   4 NAD-SFC NoSubs
 8  4 30 121  4   -26.6  0.258 -9.000 -9.000  -999.   316.     58.0  0.1620  0.32  1.00   3.10  315.0  15.0  282.0  2.0   0  0.00   82.  1004.   4 NAD-SFC NoSubs
 8  4 30 121  5   -12.8  0.170 -9.000 -9.000  -999.   171.     34.2  0.1620  0.32  1.00   2.10  301.0  15.0  281.6  2.0   0  0.00   82.  1004.   3 NAD-SFC NoSubs
 8  4 30 121  6    -4.6  0.103 -9.000 -9.000  -999.    80.     21.3  0.0780  0.32  0.55   1.50  285.0  15.0  281.2  2.0   0  0.00   81.  1005.   3 NAD-SFC NoSubs
 8  4 30 121  7    19.4  0.477  0.452  0.006   170.   791.   -501.9  0.1880  0.32  0.26   5.10  336.0  15.0  282.8  2.0   0  0.00   66.  1006.   3 NAD-SFC NoSubs
 8  4 30 121  8    53.8  0.491  0.845  0.006   403.   826.   -197.6  0.1880  0.32  0.18   5.10  341.0  15.0  284.0  2.0   0  0.00   57.  1006.   2 NAD-SFC NoSubs
 8  4 30 121  9    84.6  0.459  1.058  0.005   502.   747.   -102.2  0.1880  0.32  0.15   4.60  344.0  15.0  285.2  2.0   0  0.00   51.  1006.   2 NAD-SFC NoSubs
 8  4 30 121 10   108.9  0.423  1.226  0.005   607.   662.    -62.5  0.1880  0.32  0.14   4.10  342.0  15.0  286.6  2.0   0  0.00   47.  1006.   2 NAD-SFC NoSubs
 8  4 30 121 11   125.2  0.469  1.383  0.005   759.   770.    -73.8  0.1880  0.32  0.14   4.60  341.0  15.0  288.0  2.0   0  0.00   42.  1006.   3 NAD-SFC NoSubs
 8  4 30 121 12   133.0  0.471  1.512  0.007   932.   775.    -70.2  0.1880  0.32  0.14   4.60  338.0  15.0  289.1  2.0   0  0.00   39.  1005.   3 NAD-SFC NoSubs
 8  4 30 121 13   132.4  0.512  1.563  0.007  1035.   879.    -90.9  0.1880  0.32  0.14   5.10  343.0  15.0  290.0  2.0   0  0.00   38.  1004.   3 NAD-SFC NoSubs
 8  4 30 121 14   123.4  0.561  1.563  0.008  1108.  1007.   -127.9  0.1880  0.32  0.14   5.70  332.0  15.0  290.8  2.0   0  0.00   36.  1003.   3 NAD-SFC NoSubs
 8  4 30 121 15   106.0  0.599  1.512  0.008  1168.  1112.   -181.7  0.1880  0.32  0.14   6.20  332.0  15.0  291.2  2.0   0  0.00   34.  1003.   3 NAD-SFC NoSubs
 8  4 30 121 16    80.6  0.636  1.398  0.008  1212.  1217.   -285.5  0.1880  0.32  0.15   6.70  330.0  15.0  291.5  2.0   0  0.00   33.  1002.   2 NAD-SFC NoSubs
 8  4 30 121 17    48.9  0.524  1.191  0.008  1236.   925.   -263.6  0.1620  0.32  0.19   5.70  326.0  15.0  291.1  2.0   0  0.00   39.  1002.   2 NAD-SFC NoSubs
 8  4 30 121 18    13.2  0.374  0.771  0.008  1240.   569.   -352.9  0.1620  0.32  0.29   4.10  321.0  15.0  289.8  2.0   0  0.00   49.  1003.   2 NAD-SFC NoSubs
 8  4 30 121 19   -35.9  0.346 -9.000 -9.000  -999.   490.    103.5  0.1620  0.32  0.64   4.10  321.0  15.0  288.0  2.0   0  0.00   53.  1003.   2 NAD-SFC NoSubs
 8  4 30 121 20   -32.6  0.302 -9.000 -9.000  -999.   400.     75.7  0.1620  0.32  1.00   3.60  310.0  15.0  286.8  2.0   0  0.00   55.  1003.   2 NAD-SFC NoSubs
 8  4 30 121 21   -27.9  0.258 -9.000 -9.000  -999.   315.     55.1  0.1620  0.32  1.00   3.10  308.0  15.0  286.1  2.0   0  0.00   55.  1003.   2 NAD-SFC NoSubs
 8  4 30 121 22    -6.5  0.120 -9.000 -9.000  -999.   114.     24.0  0.1620  0.32  1.00   1.50  300.0  15.0  285.6  2.0   0  0.00   56.  1004.   2 NAD-SFC NoSubs
 8  4 30 121 23    -1.0  0.068 -9.000 -9.000  -999.    43.     27.0  0.0340  0.32  1.00   0.50  227.0  15.0  285.2  2.0   0  0.00   55.  1004.   2 NAD-SFC NoSubs
 8  4 30 121 24  -999.0 -9.000 -9.000 -9.000  -999.  -999.  -99999.0  0.0879  0.32  1.00   0.00    0.0  15.0  285.2  2.0   0  0.00   54.  1004.   2 NAD-SFC NoSubs
 8  5  1 122  1    -1.5  0.082 -9.000 -9.000  -999.    56.     31.6  0.2130  0.52  1.00   0.50  102.0  15.0  284.6  2.0   0  0.00   56.  1004.   2 NAD-SFC NoSubs
 8  5  1 122  2    -3.5  0.095 -9.000 -9.000  -999.    70.     21.8  0.1810  0.52  1.00   1.00  155.0  15.0  283.6  2.0   0  0.00   61.  1004.   2 NAD-SFC NoSubs
 8  5  1 122  3    -1.5  0.080 -9.000 -9.000  -999.    55.     31.3  0.1810  0.52  1.00   0.50  168.0  15.0  282.9  2.0   0  0.00   64.  1004.   2 NAD-SFC NoSubs
 8  5  1 122  4    -1.5  0.081 -9.000 -9.000  -999.    55.     31.5  0.1900  0.52  1.00   0.50  188.0  15.0  282.2  2.0   0  0.00   66.  1004.   2 NAD-SFC NoSubs
 8  5  1 122  5    -3.5  0.094 -9.000 -9.000  -999.    70.     21.7  0.1750  0.52  1.00   1.00  244.0  15.0  282.0  2.0   0  0.00   67.  1005.   2 NAD-SFC NoSubs
 8  5  1 122  6    -6.1  0.122 -9.000 -9.000  -999.   102.     26.5  0.1750  0.52  0.58   1.50  246.0  15.0  281.8  2.0   0  0.00   67.  1005.   2 NAD-SFC NoSubs
 8  5  1 122  7    24.0  0.142  0.389  0.005    88.   129.    -10.8  0.2720  0.52  0.31   1.00  313.0  15.0  283.5  2.0   0  0.00   59.  1006.   2 NAD-SFC NoSubs
 8  5  1 122  8    71.1  0.164  0.929  0.006   404.   160.     -5.6  0.2930  0.52  0.23   1.00  346.0  15.0  285.4  2.0   0  0.00   47.  1006.   2 NAD-SFC NoSubs
 8  5  1 122  9   112.2 -9.000 -9.000 -9.000   556.  -999.  -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  286.9  2.0   0  0.00   42.  1006.   2 NAD-SFC NoSubs
 8  5  1 122 10   144.5 -9.000 -9.000 -9.000   708.  -999.  -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  288.5  2.0   0  0.00   37.  1006.   2 NAD-SFC NoSubs
 8  5  1 122 11   166.5 -9.000 -9.000 -9.000   854.  -999.  -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  290.1  2.0   0  0.00   33.  1005.   2 NAD-SFC NoSubs
 8  5  1 122 12   177.0  0.114  1.696  0.006   989.    92.     -1.0  0.2160  0.52  0.19   0.50  296.0  15.0  291.6  2.0   0  0.00   29.  1004.   2 NAD-SFC NoSubs
 8  5  1 122 13   176.4  0.234  1.769  0.007  1124.   271.     -6.5  0.2720  0.52  0.19   1.50  316.0  15.0  292.9  2.0   0  0.00   27.  1003.   2 NAD-SFC NoSubs
 8  5  1 122 14   164.5  0.236  1.784  0.008  1238.   275.     -7.1  0.2930  0.52  0.19   1.50  342.0  15.0  294.0  2.0   0  0.00   25.  1003.   2 NAD-SFC NoSubs
 8  5  1 122 15   141.1  0.336  1.736  0.009  1328.   468.    -24.1  0.2930  0.52  0.19   2.60  346.0  15.0  294.6  2.0   0  0.00   25.  1002.   2 NAD-SFC NoSubs
 8  5  1 122 16   107.5 -9.000 -9.000 -9.000  1371.  -999.  -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  294.8  2.0   0  0.00   26.  1002.   2 NAD-SFC NoSubs
 8  5  1 122 17    65.2 -9.000 -9.000 -9.000  1394.  -999.  -99999.0  0.2235  0.52  0.23   0.00    0.0  15.0  294.5  2.0   0  0.00   29.  1002.   2 NAD-SFC NoSubs
 8  5  1 122 18    17.8 -9.000 -9.000 -9.000  1399.  -999.  -99999.0  0.2235  0.52  0.34   0.00    0.0  15.0  293.8  2.0   0  0.00   38.  1002.   2 NAD-SFC NoSubs
 8  5  1 122 19   -16.2  0.200 -9.000 -9.000  -999.   215.     44.3  0.2940  0.52  0.68   2.10    4.0  15.0  293.0  2.0   0  0.00   39.  1003.   2 NAD-SFC NoSubs
 8  5  1 122 20    -3.9  0.101 -9.000 -9.000  -999.    81.     23.3  0.2720  0.52  1.00   1.00  328.0  15.0  291.8  2.0   0  0.00   42.  1003.   2 NAD-SFC NoSubs
 8  5  1 122 21  -999.0 -9.000 -9.000 -9.000  -999.  -999.  -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  290.4  2.0   0  0.00   47.  1003.   2 NAD-SFC NoSubs
 8  5  1 122 22    -1.5  0.080 -9.000 -9.000  -999.    55.     31.3  0.1950  0.52  1.00   0.50  236.0  15.0  289.0  2.0   0  0.00   53.  1004.   2 NAD-SFC NoSubs
 8  5  1 122 23    -1.4  0.079 -9.000 -9.000  -999.    54.     31.1  0.1750  0.52  1.00   0.50  254.0  15.0  287.8  2.0   0  0.00   57.  1004.   2 NAD-SFC NoSubs
 8  5  1 122 24  -999.0 -9.000 -9.000 -9.000  -999.  -999.  -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  286.9  2.0   0  0.00   59.  1004.   2 NAD-SFC NoSubs
 8  5  2 123  1  -999.0 -9.000 -9.000 -9.000  -999.  -999.  -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  286.2  2.0   0  0.00   60.  1004.   2 NAD-SFC NoSubs
 8  5  2 123  2    -1.5  0.080 -9.000 -9.000  -999.    54.     31.1  0.1750  0.52  1.00   0.50  242.0  15.0  285.8  2.0   0  0.00   60.  1005.   2 NAD-SFC NoSubs
 8  5  2 123  3    -7.3  0.129 -9.000 -9.000  -999.   111.     26.2  0.2160  0.52  1.00   1.50  271.0  15.0  285.1  2.0   0  0.00   61.  1005.   2 NAD-SFC NoSubs
 8  5  2 123  4   -22.7  0.230 -9.000 -9.000  -999.   265.     48.3  0.2160  0.52  1.00   2.60  281.0  15.0  284.6  2.0   0  0.00   62.  1005.   2 NAD-SFC NoSubs
 8  5  2 123  5   -22.7  0.230 -9.000 -9.000  -999.   265.     48.2  0.2160  0.52  1.00   2.60  288.0  15.0  284.1  2.0   0  0.00   61.  1006.   2 NAD-SFC NoSubs
 8  5  2 123  6   -13.2  0.184 -9.000 -9.000  -999.   190.     42.5  0.2160  0.52  0.57   2.10  291.0  15.0  283.8  2.0   0  0.00   60.  1006.   2 NAD-SFC NoSubs
 8  5  2 123  7    25.0  0.244  0.393  0.007    87.   289.    -51.9  0.2720  0.52  0.31   2.10  317.0  15.0  285.1  2.0   0  0.00   51.  1007.   2 NAD-SFC NoSubs
 8  5  2 123  8    72.1  0.211  0.728  0.007   192.   233.    -11.7  0.2720  0.52  0.22   1.50  300.0  15.0  287.0  2.0   0  0.00   46.  1007.   2 NAD-SFC NoSubs
 8  5  2 123  9   113.5  0.163  1.022  0.006   338.   158.     -3.4  0.2160  0.52  0.20   1.00  281.0  15.0  289.8  2.0   0  0.00   38.  1007.   2 NAD-SFC NoSubs
 8  5  2 123 10   146.0  0.111  1.305  0.005   547.    89.     -1.0  0.2160  0.52  0.19   0.50  282.0  15.0  291.9  2.0   0  0.00   31.  1006.   2 NAD-SFC NoSubs
 8  5  2 123 11   168.0 -9.000 -9.000 -9.000   759.  -999.  -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  293.8  2.0   0  0.00   27.  1006.   2 NAD-SFC NoSubs
 8  5  2 123 12   178.6 -9.000 -9.000 -9.000   940.  -999.  -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  295.2  2.0   0  0.00   24.  1005.   2 NAD-SFC NoSubs
 8  5  2 123 13   178.1  0.120  1.738  0.007  1058.   100.     -1.0  0.2720  0.52  0.19   0.50  326.0  15.0  296.8  2.0   0  0.00   22.  1004.   2 NAD-SFC NoSubs
 8  5  2 123 14   166.2  0.183  1.747  0.007  1150.   187.     -3.3  0.2930  0.52  0.19   1.00  337.0  15.0  297.6  2.0   0  0.00   21.  1003.   2 NAD-SFC NoSubs
 8  5  2 123 15   142.9  0.290  1.696  0.007  1223.   375.    -15.2  0.2940  0.52  0.19   2.10    4.0  15.0  298.2  2.0   0  0.00   21.  1003.   2 NAD-SFC NoSubs
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8	5	2	123	16	109.2	0.421	1.572	0.007	1275.	655.	-60.9	0.2940	0.52	0.20	3.60	6.0	15.0	298.1	2.0	0	0.00	23.	1003.	2	NAD-SFC	NoSubs
8	5	2	123	17	66.5	0.361	1.343	0.007	1303.	523.	-63.2	0.2940	0.52	0.23	3.10	18.0	15.0	296.8	2.0	0	0.00	37.	1003.	2	NAD-SFC	NoSubs
8	5	2	123	18	19.1	0.384	0.887	0.006	1309.	570.	-264.5	0.2940	0.52	0.34	3.60	21.0	15.0	295.6	2.0	0	0.00	44.	1003.	2	NAD-SFC	NoSubs
8	5	2	123	19	-2.9	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.67	0.00	0.0	15.0	294.8	2.0	0	0.00	44.	1004.	2	NAD-SFC	NoSubs
8	5	2	123	20	-24.8	0.246	-9.000	-9.000	-999.	293.	53.7	0.2720	0.52	1.00	2.60	316.0	15.0	293.8	2.0	0	0.00	47.	1004.	2	NAD-SFC	NoSubs
8	5	2	123	21	-34.4	0.325	-9.000	-9.000	-999.	445.	89.5	0.2160	0.52	1.00	3.60	298.0	15.0	292.6	2.0	0	0.00	50.	1004.	2	NAD-SFC	NoSubs
8	5	2	123	22	-36.9	0.347	-9.000	-9.000	-999.	490.	101.2	0.2720	0.52	1.00	3.60	311.0	15.0	291.2	2.0	0	0.00	53.	1005.	2	NAD-SFC	NoSubs
8	5	2	123	23	-37.1	0.347	-9.000	-9.000	-999.	490.	100.7	0.2720	0.52	1.00	3.60	316.0	15.0	289.9	2.0	0	0.00	57.	1005.	2	NAD-SFC	NoSubs
8	5	2	123	24	-37.2	0.347	-9.000	-9.000	-999.	490.	100.2	0.2720	0.52	1.00	3.60	326.0	15.0	288.6	2.0	0	0.00	61.	1005.	2	NAD-SFC	NoSubs
8	5	3	124	1	-38.2	0.354	-9.000	-9.000	-999.	506.	104.2	0.2930	0.52	1.00	3.60	347.0	15.0	287.4	2.0	0	0.00	67.	1005.	2	NAD-SFC	NoSubs
8	5	3	124	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	286.2	2.0	0	0.00	77.	1005.	2	NAD-SFC	NoSubs
8	5	3	124	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	285.4	2.0	0	0.00	83.	1005.	2	NAD-SFC	NoSubs
8	5	3	124	4	-16.8	0.200	-9.000	-9.000	-999.	214.	42.5	0.2930	0.52	1.00	2.10	354.0	15.0	284.9	2.0	0	0.00	86.	1005.	2	NAD-SFC	NoSubs
8	5	3	124	5	-8.4	0.140	-9.000	-9.000	-999.	126.	29.2	0.2930	0.52	1.00	1.50	352.0	15.0	284.4	2.0	0	0.00	89.	1005.	2	NAD-SFC	NoSubs
8	5	3	124	6	8.7	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.57	0.00	0.0	15.0	284.1	2.0	0	0.00	91.	1005.	2	NAD-SFC	NoSubs
8	5	3	124	7	25.8	-9.000	-9.000	-9.000	155.	-999.	-99999.0	0.2235	0.52	0.30	0.00	0.0	15.0	285.2	2.0	0	0.00	83.	1006.	2	NAD-SFC	NoSubs
8	5	3	124	8	72.8	-9.000	-9.000	-9.000	251.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	287.2	2.0	0	0.00	72.	1006.	2	NAD-SFC	NoSubs
8	5	3	124	9	113.9	-9.000	-9.000	-9.000	336.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	289.2	2.0	0	0.00	63.	1005.	2	NAD-SFC	NoSubs
8	5	3	124	10	146.2	-9.000	-9.000	-9.000	462.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	291.2	2.0	0	0.00	54.	1005.	2	NAD-SFC	NoSubs
8	5	3	124	11	168.3	-9.000	-9.000	-9.000	634.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	293.2	2.0	0	0.00	47.	1004.	2	NAD-SFC	NoSubs
8	5	3	124	12	178.8	-9.000	-9.000	-9.000	822.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.8	2.0	0	0.00	41.	1003.	2	NAD-SFC	NoSubs
8	5	3	124	13	178.3	-9.000	-9.000	-9.000	980.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.0	2.0	0	0.00	38.	1002.	2	NAD-SFC	NoSubs
8	5	3	124	14	166.4	0.121	1.714	0.007	1082.	101.	-1.0	0.2930	0.52	0.19	0.50	335.0	15.0	297.0	2.0	0	0.00	35.	1001.	2	NAD-SFC	NoSubs
8	5	3	124	15	143.1	0.180	1.671	0.007	1164.	183.	-3.6	0.2930	0.52	0.19	1.00	351.0	15.0	297.8	2.0	0	0.00	33.	1000.	2	NAD-SFC	NoSubs
8	5	3	124	16	109.6	0.283	1.555	0.007	1223.	361.	-18.3	0.2940	0.52	0.20	2.10	2.0	15.0	298.0	2.0	0	0.00	33.	999.	2	NAD-SFC	NoSubs
8	5	3	124	17	67.5	0.361	1.334	0.007	1256.	521.	-62.4	0.2940	0.52	0.23	3.10	11.0	15.0	297.8	2.0	0	0.00	35.	999.	2	NAD-SFC	NoSubs
8	5	3	124	18	20.0	0.337	0.893	0.007	1264.	470.	-170.0	0.2940	0.52	0.34	3.10	18.0	15.0	296.8	2.0	0	0.00	48.	999.	2	NAD-SFC	NoSubs
8	5	3	124	19	-28.8	0.304	-9.000	-9.000	-999.	403.	87.0	0.2940	0.52	0.66	3.10	8.0	15.0	295.8	2.0	0	0.00	51.	999.	3	NAD-SFC	NoSubs
8	5	3	124	20	-38.1	0.373	-9.000	-9.000	-999.	546.	121.2	0.2160	0.52	1.00	4.10	270.0	15.0	294.2	2.0	0	0.00	55.	1000.	3	NAD-SFC	NoSubs
8	5	3	124	21	-56.2	0.543	-9.000	-9.000	-999.	960.	254.0	0.1750	0.52	1.00	6.20	257.0	15.0	290.4	2.0	0	0.00	72.	1000.	3	NAD-SFC	NoSubs
8	5	3	124	22	-46.1	0.443	-9.000	-9.000	-999.	717.	168.2	0.1750	0.52	1.00	5.10	261.0	15.0	289.0	2.0	0	0.00	76.	1000.	3	NAD-SFC	NoSubs
8	5	3	124	23	-41.5	0.398	-9.000	-9.000	-999.	604.	135.2	0.1750	0.52	1.00	4.60	258.0	15.0	287.9	2.0	0	0.00	81.	1000.	3	NAD-SFC	NoSubs
8	5	3	124	24	-37.0	0.353	-9.000	-9.000	-999.	505.	106.0	0.1750	0.52	1.00	4.10	258.0	15.0	287.0	2.0	0	0.00	85.	1000.	3	NAD-SFC	NoSubs
8	5	4	125	1	-32.3	0.308	-9.000	-9.000	-999.	412.	80.7	0.1750	0.52	1.00	3.60	267.0	15.0	286.4	2.0	0	0.00	87.	1000.	3	NAD-SFC	NoSubs
8	5	4	125	2	-7.2	0.129	-9.000	-9.000	-999.	143.	26.6	0.2160	0.52	1.00	1.50	292.0	15.0	286.0	2.0	0	0.00	87.	1000.	3	NAD-SFC	NoSubs
8	5	4	125	3	-3.8	0.100	-9.000	-9.000	-999.	76.	23.3	0.2720	0.52	1.00	1.00	325.0	15.0	285.8	2.0	0	0.00	88.	1000.	4	NAD-SFC	NoSubs
8	5	4	125	4	-3.8	0.100	-9.000	-9.000	-999.	76.	23.3	0.2720	0.52	1.00	1.00	321.0	15.0	285.2	2.0	0	0.00	89.	1000.	4	NAD-SFC	NoSubs
8	5	4	125	5	-1.6	0.082	-9.000	-9.000	-999.	56.	31.5	0.2720	0.52	1.00	0.50	318.0	15.0	285.0	2.0	0	0.00	90.	1000.	4	NAD-SFC	NoSubs
8	5	4	125	6	-1.2	0.073	-9.000	-9.000	-999.	47.	28.7	0.2940	0.52	0.56	0.50	24.0	15.0	284.8	2.0	0	0.00	91.	1000.	4	NAD-SFC	NoSubs
8	5	4	125	7	28.5	0.138	0.488	0.007	145.	123.	-8.3	0.2160	0.52	0.30	1.00	293.0	15.0	286.2	2.0	0	0.00	80.	1000.	4	NAD-SFC	NoSubs
8	5	4	125	8	74.1	-9.000	-9.000	-9.000	308.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	288.1	2.0	0	0.00	72.	1000.	4	NAD-SFC	NoSubs
8	5	4	125	9	115.0	-9.000	-9.000	-9.000	491.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	289.8	2.0	0	0.00	68.	1000.	3	NAD-SFC	NoSubs
8	5	4	125	10	146.9	-9.000	-9.000	-9.000	666.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	291.4	2.0	0	0.00	63.	999.	3	NAD-SFC	NoSubs
8	5	4	125	11	168.6	-9.000	-9.000	-9.000	808.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	293.2	2.0	0	0.00	57.	998.	3	NAD-SFC	NoSubs
8	5	4	125	12	179.0	-9.000	-9.000	-9.000	935.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.8	2.0	0	0.00	51.	997.	3	NAD-SFC	NoSubs
8	5	4	125	13	178.5	-9.000	-9.000	-9.000	1050.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.1	2.0	0	0.00	44.	996.	3	NAD-SFC	NoSubs
8	5	4	125	14	166.8	0.119	1.752	0.006	1147.	99.	-1.0	0.2720	0.52	0.19	0.50	321.0	15.0	297.2	2.0	0	0.00	37.	996.	3	NAD-SFC	NoSubs
8	5	4	125	15	143.7	0.111	1.704	0.006	1224.	89.	-1.0	0.2160	0.52	0.19	0.50	295.0	15.0	297.8	2.0	0	0.00	35.	995.	3	NAD-SFC	NoSubs
8	5	4	125	16	110.4	0.377	1.584	0.006	1279.	556.	-43.1	0.1750	0.52	0.20	3.60	264.0	15.0	297.8	2.0	0	0.00	36.	995.	3	NAD-SFC	NoSubs
8	5	4	125	17	68.2	0.447	1.359	0.006	1309.	717.	-116.5	0.1750	0.52	0.23	4.60	260.0	15.0	296.0	2.0	0	0.51	51.	995.	3	NAD-SFC	NoSubs
8	5	4	125	18	21.8	0.395	0.931	0.006	1314.	597.	-250.5	0.1950	0.52	0.33	4.10	227.0	15.0	294.1	2.0	0	0.51	63.	996.	4	NAD-SFC	NoSubs
8	5	4	125	19	-41.7	0.456	-9.000	-9.000	-999.	740.	202.8	0.1950	0.52	0.65	5.10	233.0	15.0	291.8	2.0	0	0.51	69.	998.	4	NAD-SFC	NoSubs
8	5	4	125	20	-56.2	0.543	-9.000	-9.000	-999.	959.	253.3	0.1750	0.52	1.00	6.20	247.0	15.0	289.6	2.0	0	0.25	71.	998.	3	NAD-SFC	NoSubs
8	5	4	125	21	-20.2	0.218	-9.000	-9.000	-999.	384.	45.8	0.1750	0.52	1.00	2.60	269.0	15.0	288.9	2.0	0	0.51	73.	999.	3	NAD-SFC	NoSubs
8	5	4	125	22	-16.1	0.200	-9.000	-9.000	-999.	219.	44.5	0.2940	0.52	1.00	2.10	22.0	15.0	289.1	2.0	0	0.76	73.	1000.	4	NAD-SFC	NoSubs
8	5	4	125	23	-3.1	0.091	-9.000	-9.000	-999.	74.	21.5	0.1750	0.52	1.00	1.00	264.0	15.0	288.8	2.0	0	0.25	75.	1000.	5	NAD-SFC	NoSubs
8	5	4	125	24	-20.9	0.225	-9.000	-9.000	-999.	256.	48.5	0.1950	0.52	1.00	2.60	228.0	15.0	287.8	2.0	0	0.00	77.	1000.	4	NAD-SFC	NoSubs
8	5	5	126	1	-3.0	0.091	-9.000	-9.000	-999.	81.	22.5	0.2160	0.52	1.00	1.00	285.0	15.0	287.0	2.0	0	0.00	79.	1001.	7	NAD-SFC	NoSubs
8	5	5	126	2	-0.8	0.061	-9.000	-9.000	-999.	37.	25.5	0.1950	0.52	1.00	0.50	222.0	15.0	286.5	2.0	0	0.00	81.	1001.	10	NAD-SFC	NoSubs
8	5	5	126	3	-2.2	0.084	-9.000	-9.000	-999.	59.	24.1	0.1950	0.52	1.00	1.00	227.0	15.0	286.2	2.0	0	0.00	82.	1001.	10	NAD-SFC	NoSubs
8	5	5	126	4	-5.8	0.122	-9.000	-9.000	-999.	102.	27.8	0.1750	0.52	1.00	1.50	243.0	15.0	286.0	2.0	0	0.00	82.	1001.	7	NAD-SFC	NoSubs
8	5	5	126	5	-6.6	0.125	-9.000	-9.000	-999.	107.	26.7	0.1950	0.52	1.00	1.50	230.0	15.0	285.6	2.0	0	0.00	83.	1002.	5	NAD-SFC	NoSubs
8	5	5	126	6	-5.4	0.122	-9.000	-9.000	-999.	103.	30.1	0.1750	0.52	0.55	1.50	248.0	15.0	285.2	2.0	0	0.00	84.	1003.	4	NAD-SFC	NoSubs
8	5	5	126	7	29.3	0.265	0.545	0.006	197.	328.	-57.1	0.1750	0.52	0.30	2.60	262.0	15.0	286.6	2.0	0	0.00	76.	1003.	4	NAD-SFC	NoSubs
8	5	5	126	8	75.1	0.202	0.929	0.006	382.	219.	-9.8	0.2160	0.52	0.22	1.50	275.0	15.0	288.2	2.0	0	0.00	69.	1003.	3	NAD-SFC	NoSubs
8	5	5	126	9	115.5	0.156	1.227	0.006	573.	149.	-3.0	0.1750	0.52	0.20	1.00	267.0	15.0	289.8	2.0	0	0.00	64.	1003.	3	NAD-SFC	NoSubs
8	5	5	126	10	147.3	0.106	1.443	0.005	730.	83.	-1.0	0.1750	0.52	0.19	0.50	262.0	15.0	291.8	2.0	0	0.00	57.	1003.	2	NAD-SFC	NoSubs
8	5	5	126	11	169.2	-9.000	-9.000	-9.000	862.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	293.4	2.0	0	0.00	49.	1002.	2	NAD-SFC	NoSubs
8	5	5	126	12	179.5	-9.000	-9.000	-9.000	996.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.0	2.0	0	0.00	41.	1001.	3	NAD-SFC	NoSubs
8	5	5	126	13	178.9	-9.000	-9.000	-9.000	1204.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.2	2.0	0	0.00	35.	1000.	3	NAD-SFC	NoSubs
8	5	5	126	14	167.2	-9.000	-9.000	-9.000	1354.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.2	2.0	0	0.00	32.	1000.	2	NAD-SFC	NoSubs
8	5	5	126	15	144.1	-9.000	-9.000	-9.000	1417.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.0	2.0	0	0.00	29.	999.	2	NAD-SFC	NoSubs
8	5	5	126	16	110.6	0.107	1.656	0.005	1463.	84.	-1.0	0.2160	0.52	0.20	0.50	283.0	15.0	298.2	2.0	0	0.00	29.	998.	2	NAD-SFC	NoSubs
8	5	5	126	17	68.8	-9.000	-9.000	-9.000	1491.	-999.	-99999.0	0.2235	0.52	0.23	0.00	0.0	15.0	298.4	2.0	0	0.00	29.	998.	2	NAD-SFC	NoSubs
8	5	5	126	18	21.7	0.183	0.970	0.005	1498.	188.	-25.2	0.2470	0.52	0.33	1.50	31.0	15.0	298.0	2.0	0	0.00	36.	999.	2	NAD-SFC	NoSubs
8	5	5	126	19	-15.7	0.201	-9.000	-9.000	-999.	216.	45.8	0.2940	0.52	0.65	2.10	24.0	15.0	297.0	2.0	0	0.00	41.	999.	2	NAD-SFC	NoSubs
8	5	5	126	20	-55.4	0.525	-9.000	-9.000	-999.	913.	233.1	0.2160	0.52	1.00	5.70	273.0	15.0	292.8	2.0	0	0.00	61.	1001.	2	NAD-SFC	NoSubs

8	5	5	126	21	-42.4	0.398	-9.000	-9.000	-999.	615.	132.4	0.1750	0.52	1.00	4.60	268.0	15.0	289.5	2.0	0	0.00	76.	1001.	2	NAD-SFC	NoSubs
8	5	5	126	22	-39.9	0.372	-9.000	-9.000	-999.	546.	115.6	0.2160	0.52	1.00	4.10	281.0	15.0	288.5	2.0	0	0.00	75.	1002.	2	NAD-SFC	NoSubs
8	5	5	126	23	-20.6	0.218	-9.000	-9.000	-999.	261.	45.0	0.1750	0.52	1.00	2.60	261.0	15.0	287.8	2.0	0	0.00	77.	1002.	2	NAD-SFC	NoSubs
8	5	5	126	24	-3.5	0.096	-9.000	-9.000	-999.	85.	22.1	0.1950	0.52	1.00	1.00	218.0	15.0	287.2	2.0	0	0.00	77.	1003.	2	NAD-SFC	NoSubs
8	5	6	127	1	-3.5	0.096	-9.000	-9.000	-999.	71.	22.1	0.1970	0.52	1.00	1.00	144.0	15.0	286.9	2.0	0	0.00	79.	1003.	2	NAD-SFC	NoSubs
8	5	6	127	2	-7.1	0.128	-9.000	-9.000	-999.	110.	26.5	0.2130	0.52	1.00	1.50	118.0	15.0	286.5	2.0	0	0.00	80.	1003.	3	NAD-SFC	NoSubs
8	5	6	127	3	-3.5	0.095	-9.000	-9.000	-999.	70.	22.1	0.1970	0.52	1.00	1.00	142.0	15.0	286.2	2.0	0	0.00	81.	1003.	3	NAD-SFC	NoSubs
8	5	6	127	4	-3.4	0.094	-9.000	-9.000	-999.	69.	21.8	0.1810	0.52	1.00	1.00	161.0	15.0	285.9	2.0	0	0.00	82.	1003.	3	NAD-SFC	NoSubs
8	5	6	127	5	-3.5	0.095	-9.000	-9.000	-999.	71.	22.0	0.1900	0.52	1.00	1.00	183.0	15.0	285.4	2.0	0	0.00	84.	1003.	2	NAD-SFC	NoSubs
8	5	6	127	6	-2.8	0.088	-9.000	-9.000	-999.	63.	22.0	0.1900	0.52	0.55	1.00	197.0	15.0	285.0	2.0	0	0.00	86.	1004.	2	NAD-SFC	NoSubs
8	5	6	127	7	28.2	0.087	0.474	0.009	135.	62.	-2.1	0.1950	0.52	0.30	0.50	215.0	15.0	286.9	2.0	0	0.00	75.	1004.	2	NAD-SFC	NoSubs
8	5	6	127	8	75.2	-9.000	-9.000	-9.000	285.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	289.1	2.0	0	0.00	68.	1004.	2	NAD-SFC	NoSubs
8	5	6	127	9	115.9	-9.000	-9.000	-9.000	438.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	290.8	2.0	0	0.00	64.	1003.	2	NAD-SFC	NoSubs
8	5	6	127	10	148.2	-9.000	-9.000	-9.000	584.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	293.0	2.0	0	0.00	57.	1003.	2	NAD-SFC	NoSubs
8	5	6	127	11	170.1	-9.000	-9.000	-9.000	714.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.9	2.0	0	0.00	51.	1002.	2	NAD-SFC	NoSubs
8	5	6	127	12	180.7	-9.000	-9.000	-9.000	828.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.8	2.0	0	0.00	46.	1001.	2	NAD-SFC	NoSubs
8	5	6	127	13	180.3	-9.000	-9.000	-9.000	928.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.2	2.0	0	0.00	41.	1000.	2	NAD-SFC	NoSubs
8	5	6	127	14	168.4	0.121	1.687	0.009	1018.	101.	-1.0	0.2930	0.52	0.19	0.50	354.0	15.0	299.2	2.0	0	0.00	39.	999.	2	NAD-SFC	NoSubs
8	5	6	127	15	145.2	-9.000	-9.000	-9.000	1093.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.8	2.0	0	0.00	38.	999.	2	NAD-SFC	NoSubs
8	5	6	127	16	111.7	0.421	1.531	0.010	1147.	657.	-59.7	0.2940	0.52	0.20	3.60	6.0	15.0	299.8	2.0	0	0.00	40.	999.	2	NAD-SFC	NoSubs
8	5	6	127	17	69.4	-9.000	-9.000	-9.000	1177.	-999.	-99999.0	0.2235	0.52	0.23	0.00	0.0	15.0	298.8	2.0	0	0.00	51.	999.	2	NAD-SFC	NoSubs
8	5	6	127	18	23.4	0.386	0.920	0.010	1185.	576.	-219.4	0.2930	0.52	0.33	3.60	349.0	15.0	297.8	2.0	0	0.00	58.	999.	3	NAD-SFC	NoSubs
8	5	6	127	19	-36.3	0.398	-9.000	-9.000	-999.	603.	155.2	0.2720	0.52	0.64	4.10	316.0	15.0	296.4	2.0	0	0.00	62.	1000.	3	NAD-SFC	NoSubs
8	5	6	127	20	-40.5	0.397	-9.000	-9.000	-999.	601.	138.2	0.2720	0.52	1.00	4.10	319.0	15.0	295.1	2.0	0	0.00	67.	1000.	3	NAD-SFC	NoSubs
8	5	6	127	21	-35.5	0.347	-9.000	-9.000	-999.	492.	104.9	0.2720	0.52	1.00	3.60	311.0	15.0	293.8	2.0	0	0.00	73.	1001.	3	NAD-SFC	NoSubs
8	5	6	127	22	-30.6	0.309	-9.000	-9.000	-999.	412.	85.8	0.1750	0.52	1.00	3.60	258.0	15.0	292.8	2.0	0	0.00	75.	1001.	4	NAD-SFC	NoSubs
8	5	6	127	23	-26.3	0.264	-9.000	-9.000	-999.	326.	62.4	0.1750	0.52	1.00	3.10	246.0	15.0	291.4	2.0	0	0.00	78.	1002.	4	NAD-SFC	NoSubs
8	5	6	127	24	-14.2	0.183	-9.000	-9.000	-999.	190.	38.7	0.2160	0.52	1.00	2.10	273.0	15.0	290.8	2.0	0	0.00	78.	1002.	3	NAD-SFC	NoSubs
8	5	7	128	1	-34.7	0.347	-9.000	-9.000	-999.	491.	107.6	0.2720	0.52	1.00	3.60	313.0	15.0	290.1	2.0	0	0.00	80.	1002.	4	NAD-SFC	NoSubs
8	5	7	128	2	-32.7	0.326	-9.000	-9.000	-999.	446.	94.4	0.2160	0.52	1.00	3.60	298.0	15.0	289.2	2.0	0	0.00	81.	1002.	4	NAD-SFC	NoSubs
8	5	7	128	3	-21.8	0.231	-9.000	-9.000	-999.	271.	50.5	0.2160	0.52	1.00	2.60	297.0	15.0	288.8	2.0	0	0.00	79.	1002.	4	NAD-SFC	NoSubs
8	5	7	128	4	-14.0	0.183	-9.000	-9.000	-999.	189.	39.3	0.2160	0.52	1.00	2.10	299.0	15.0	288.2	2.0	0	0.00	78.	1003.	4	NAD-SFC	NoSubs
8	5	7	128	5	-14.0	0.183	-9.000	-9.000	-999.	188.	39.3	0.2160	0.52	1.00	2.10	297.0	15.0	287.8	2.0	0	0.00	77.	1003.	4	NAD-SFC	NoSubs
8	5	7	128	6	-5.7	0.130	-9.000	-9.000	-999.	113.	34.2	0.2160	0.52	0.54	1.50	296.0	15.0	287.4	2.0	0	0.00	77.	1004.	4	NAD-SFC	NoSubs
8	5	7	128	7	31.1	0.293	0.549	0.007	190.	380.	-72.2	0.2720	0.52	0.30	2.60	329.0	15.0	288.8	2.0	0	0.00	67.	1004.	4	NAD-SFC	NoSubs
8	5	7	128	8	76.3	0.272	0.976	0.007	437.	341.	-23.7	0.2930	0.52	0.22	2.10	336.0	15.0	289.6	2.0	0	0.00	63.	1004.	4	NAD-SFC	NoSubs
8	5	7	128	9	115.6	0.226	1.229	0.006	575.	258.	-8.9	0.2930	0.52	0.20	1.50	330.0	15.0	290.8	2.0	0	0.00	60.	1004.	4	NAD-SFC	NoSubs
8	5	7	128	10	146.6	0.177	1.431	0.005	716.	180.	-3.4	0.2720	0.52	0.19	1.00	324.0	15.0	292.1	2.0	0	0.00	56.	1003.	4	NAD-SFC	NoSubs
8	5	7	128	11	167.6	0.180	1.586	0.005	853.	183.	-3.1	0.2720	0.52	0.19	1.00	316.0	15.0	293.4	2.0	0	0.00	52.	1003.	4	NAD-SFC	NoSubs
8	5	7	128	12	177.6	0.234	1.695	0.005	982.	272.	-6.4	0.2720	0.52	0.19	1.50	316.0	15.0	294.6	2.0	0	0.00	47.	1002.	4	NAD-SFC	NoSubs
8	5	7	128	13	179.3	0.344	1.805	0.005	1173.	485.	-20.3	0.2930	0.52	0.19	2.60	334.0	15.0	295.5	2.0	0	0.00	43.	1001.	3	NAD-SFC	NoSubs
8	5	7	128	14	167.5	0.382	1.838	0.006	1327.	566.	-29.6	0.2720	0.52	0.19	3.10	329.0	15.0	296.1	2.0	0	0.00	40.	1001.	3	NAD-SFC	NoSubs
8	5	7	128	15	144.4	0.467	1.788	0.006	1416.	765.	-62.8	0.2720	0.52	0.19	4.10	326.0	15.0	296.5	2.0	0	0.00	39.	1000.	3	NAD-SFC	NoSubs
8	5	7	128	16	111.3	0.513	1.663	0.006	1477.	881.	-108.2	0.2930	0.52	0.20	4.60	336.0	15.0	296.5	2.0	0	0.00	39.	1000.	3	NAD-SFC	NoSubs
8	5	7	128	17	69.7	0.501	1.435	0.006	1513.	852.	-160.9	0.2930	0.52	0.23	4.60	348.0	15.0	296.1	2.0	0	0.00	43.	1000.	3	NAD-SFC	NoSubs
8	5	7	128	18	23.0	0.386	0.994	0.006	1523.	586.	-223.0	0.2930	0.52	0.33	3.60	352.0	15.0	295.2	2.0	0	0.00	54.	1000.	3	NAD-SFC	NoSubs
8	5	7	128	19	-37.3	0.407	-9.000	-9.000	-999.	623.	161.2	0.2930	0.52	0.63	4.10	336.0	15.0	293.4	2.0	0	0.00	60.	1000.	3	NAD-SFC	NoSubs
8	5	7	128	20	-36.5	0.355	-9.000	-9.000	-999.	509.	109.0	0.2930	0.52	1.00	3.60	339.0	15.0	292.2	2.0	0	0.00	62.	1001.	3	NAD-SFC	NoSubs
8	5	7	128	21	-30.6	0.297	-9.000	-9.000	-999.	390.	76.1	0.2720	0.52	1.00	3.10	315.0	15.0	291.8	2.0	0	0.00	62.	1001.	3	NAD-SFC	NoSubs
8	5	7	128	22	-28.8	0.278	-9.000	-9.000	-999.	352.	66.7	0.2160	0.52	1.00	3.10	272.0	15.0	290.8	2.0	0	0.00	64.	1001.	3	NAD-SFC	NoSubs
8	5	7	128	23	-33.9	0.325	-9.000	-9.000	-999.	445.	90.8	0.2160	0.52	1.00	3.60	271.0	15.0	289.1	2.0	0	0.00	69.	1001.	3	NAD-SFC	NoSubs
8	5	7	128	24	-34.0	0.325	-9.000	-9.000	-999.	445.	90.3	0.2160	0.52	1.00	3.60	292.0	15.0	287.8	2.0	0	0.00	73.	1001.	3	NAD-SFC	NoSubs
8	5	8	129	1	-31.1	0.297	-9.000	-9.000	-999.	388.	74.8	0.2720	0.52	1.00	3.10	312.0	15.0	286.9	2.0	0	0.00	75.	1001.	3	NAD-SFC	NoSubs
8	5	8	129	2	-15.9	0.195	-9.000	-9.000	-999.	212.	42.0	0.2720	0.52	1.00	2.10	325.0	15.0	286.8	2.0	0	0.00	73.	1002.	3	NAD-SFC	NoSubs
8	5	8	129	3	-3.9	0.100	-9.000	-9.000	-999.	81.	23.3	0.2720	0.52	1.00	1.00	323.0	15.0	286.5	2.0	0	0.00	73.	1002.	3	NAD-SFC	NoSubs
8	5	8	129	4	-1.6	0.083	-9.000	-9.000	-999.	57.	31.8	0.2720	0.52	1.00	0.50	305.0	15.0	286.2	2.0	0	0.00	74.	1002.	3	NAD-SFC	NoSubs
8	5	8	129	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	285.8	2.0	0	0.00	75.	1002.	3	NAD-SFC	NoSubs
8	5	8	129	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.53	0.00	0.0	15.0	285.2	2.0	0	0.00	79.	1003.	3	NAD-SFC	NoSubs
8	5	8	129	7	30.7	-9.000	-9.000	-9.000	180.	-999.	-99999.0	0.2235	0.52	0.30	0.00	0.0	15.0	287.0	2.0	0	0.00	70.	1004.	3	NAD-SFC	NoSubs
8	5	8	129	8	76.9	-9.000	-9.000	-9.000	362.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	288.8	2.0	0	0.00	63.	1003.	3	NAD-SFC	NoSubs
8	5	8	129	9	116.8	-9.000	-9.000	-9.000	538.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	290.4	2.0	0	0.00	57.	1003.	2	NAD-SFC	NoSubs
8	5	8	129	10	148.8	-9.000	-9.000	-9.000	705.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	292.2	2.0	0	0.00	51.	1003.	2	NAD-SFC	NoSubs
8	5	8	129	11	170.5	-9.000	-9.000	-9.000	861.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	293.8	2.0	0	0.00	45.	1002.	2	NAD-SFC	NoSubs
8	5	8	129	12	180.9	-9.000	-9.000	-9.000	1008.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.2	2.0	0	0.00	41.	1001.	2	NAD-SFC	NoSubs
8	5	8	129	13	180.2	-9.000	-9.000	-9.000	1157.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.4	2.0	0	0.00	38.	1000.	2	NAD-SFC	NoSubs
8	5	8	129	14	168.5	0.121	1.822	0.009	1281.	101.	-1.0	0.2930	0.52	0.19	0.50	336.0	15.0	297.5	2.0	0	0.00	34.	999.	2	NAD-SFC	NoSubs
8	5	8	129	15	145.3	0.232	1.768	0.009	1359.	268.	-7.7	0.2930	0.52	0.19	1.50	352.0	15.0	298.1	2.0	0	0.00	32.	999.	2	NAD-SFC	NoSubs
8	5	8	129	16	111.9	0.329	1.636	0.009	1394.	454.	-28.4	0.2940	0.52	0.20	2.60	10.0	15.0	298.2	2.0	0	0.00	31.	998.	2	NAD-SFC	NoSubs
8	5	8	129	17	70.1	0.408	1.407	0.009	1415.	626.	-86.4	0.2940	0.52	0.23	3.60	18.0	15.0	298.0	2.0	0	0.00	34.	998.	2	NAD-SFC	NoSubs
8	5	8	129	18	22.9	0.339	0.971	0.009	1420.	477.	-151.4	0.2940	0.52	0.33	3.10	24.0	15.0	297.0	2.0	0	0.00	44.	998.	2	NAD-SFC	NoSubs
8	5	8	129	19	-28.0	0.304	-9.000	-9.000	-999.	404.	89.5	0.2940	0.52	0.63	3.10	18.0	15.0	296.2	2.0	0	0.00	44.	998.	2	NAD-SFC	NoSubs
8	5	8	129	20	-8.2	0.140	-9.000	-9.000	-999.	148.	29.7	0.2930	0.52	1.00	1.50	337.0	15.0	295.1	2.0	0	0.00	47.	999.	2	NAD-SFC	NoSubs
8	5	8	129	21	-20.3	0.218	-9.000	-9.000	-999.	245.	45.5	0.1750	0.52	1.00	2.60	263.0	15.0	293.6	2.0	0	0.00	52.	999.	2	NAD-SFC	NoSubs
8	5	8	129	22	-37.3	0.353	-9.000	-9.000	-999.	503.	105.0	0.1750	0.52	1.00	4.10	260.0	15.0	291.6	2.0	0	0.00	60.	999.	2	NAD-SFC	NoSubs
8	5	8	129	23	-34.6	0.325	-9.000	-9.000	-999.	446.	88.7	0.2160	0.52	1.00	3.60	279.0	15.0	290.1	2.0	0	0.00	67.	1000.	2	NAD-SFC	NoSubs
8	5	8	129	24	-42.4	0.397	-9.000	-9.000	-999.	600.	131.4	0.2720	0.52	1.00	4.10	323.0	15.0	288.5	2.0	0	0.00	74.	1000.	2	NAD-SFC	NoSubs
8	5	9	130	1	-37.1	0.354	-9.000	-9.000	-999.	508.	107.2	0.2930	0.52	1.00	3.60	341.0	15.0	287.8	2.0	0	0.00	77.	1001.	3	NAD-SFC	NoSubs

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 8  5  9 130  2  -16.4  0.200 -9.000 -9.000 -999.  232.     43.3  0.2930  0.52  1.00  2.10  355.0  15.0  287.2  2.0   0  0.00  77.  1001.   3 NAD-SFC NoSubs
 8  5  9 130  3   -1.6  0.084 -9.000 -9.000 -999.   71.     31.9  0.2930  0.52  1.00  0.50  346.0  15.0  286.9  2.0   0  0.00  76.  1001.   3 NAD-SFC NoSubs
 8  5  9 130  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  286.5  2.0   0  0.00  76.  1001.   3 NAD-SFC NoSubs
 8  5  9 130  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  285.9  2.0   0  0.00  78.  1001.   3 NAD-SFC NoSubs
 8  5  9 130  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.53  0.00    0.0  15.0  285.4  2.0   0  0.00  80.  1002.   3 NAD-SFC NoSubs
 8  5  9 130  7   31.3 -9.000 -9.000 -9.000  196. -999. -99999.0  0.2235  0.52  0.29  0.00    0.0  15.0  287.2  2.0   0  0.00  69.  1002.   3 NAD-SFC NoSubs
 8  5  9 130  8   76.7 -9.000 -9.000 -9.000  413. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  288.8  2.0   0  0.00  62.  1002.   2 NAD-SFC NoSubs
 8  5  9 130  9  117.2 -9.000 -9.000 -9.000  527. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  290.2  2.0   0  0.00  56.  1002.   2 NAD-SFC NoSubs
 8  5  9 130 10  149.2 -9.000 -9.000 -9.000  645. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  292.0  2.0   0  0.00  50.  1001.   2 NAD-SFC NoSubs
 8  5  9 130 11  170.9 -9.000 -9.000 -9.000  773. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  293.8  2.0   0  0.00  45.  1001.   2 NAD-SFC NoSubs
 8  5  9 130 12  181.1  0.120  1.653  0.006  890.  100.     -1.0  0.2720  0.52  0.19  0.50  320.0  15.0  295.0  2.0   0  0.00  42.  1000.   2 NAD-SFC NoSubs
 8  5  9 130 13  180.5  0.238  1.720  0.006 1008.  279.     -6.7  0.2930  0.52  0.19  1.50  338.0  15.0  296.2  2.0   0  0.00  38.  1000.   2 NAD-SFC NoSubs
 8  5  9 130 14  168.7  0.342  1.757  0.006 1149.  481.    -21.2  0.2930  0.52  0.19  2.60  348.0  15.0  297.2  2.0   0  0.00  36.   999.   2 NAD-SFC NoSubs
 8  5  9 130 15  145.4  0.430  1.723  0.007 1256.  675.    -48.5  0.2930  0.52  0.19  3.60  352.0  15.0  297.6  2.0   0  0.00  36.   999.   2 NAD-SFC NoSubs
 8  5  9 130 16  112.3  0.513  1.614  0.008 1335.  882.   -107.1  0.2930  0.52  0.20  4.60  347.0  15.0  298.2  2.0   0  0.00  35.   998.   2 NAD-SFC NoSubs
 8  5  9 130 17   70.5  0.454  1.392  0.008 1365.  739.   -118.5  0.2930  0.52  0.23  4.10  347.0  15.0  297.6  2.0   0  0.00  42.   998.   2 NAD-SFC NoSubs
 8  5  9 130 18   23.3  0.386  0.964  0.008 1373.  580.   -220.2  0.2930  0.52  0.32  3.60  345.0  15.0  296.5  2.0   0  0.00  51.   999.   2 NAD-SFC NoSubs
 8  5  9 130 19  -36.6  0.398 -9.000 -9.000 -999.  603.    153.6  0.2720  0.52  0.62  4.10  326.0  15.0  294.6  2.0   0  0.00  56.   999.   2 NAD-SFC NoSubs
 8  5  9 130 20  -41.8  0.397 -9.000 -9.000 -999.  600.    133.5  0.2720  0.52  1.00  4.10  322.0  15.0  293.0  2.0   0  0.00  60.  1000.   2 NAD-SFC NoSubs
 8  5  9 130 21  -36.6  0.347 -9.000 -9.000 -999.  492.    101.5  0.2720  0.52  1.00  3.60  323.0  15.0  292.1  2.0   0  0.00  60.  1000.   2 NAD-SFC NoSubs
 8  5  9 130 22  -30.6  0.297 -9.000 -9.000 -999.  389.     76.1  0.2720  0.52  1.00  3.10  308.0  15.0  291.6  2.0   0  0.00  59.  1001.   3 NAD-SFC NoSubs
 8  5  9 130 23  -33.7  0.325 -9.000 -9.000 -999.  445.     91.2  0.2160  0.52  1.00  3.60  293.0  15.0  290.4  2.0   0  0.00  63.  1001.   3 NAD-SFC NoSubs
 8  5  9 130 24  -36.1  0.347 -9.000 -9.000 -999.  490.    103.2  0.2720  0.52  1.00  3.60  315.0  15.0  289.2  2.0   0  0.00  67.  1002.   3 NAD-SFC NoSubs
 8  5 10 131  1  -24.7  0.246 -9.000 -9.000 -999.  298.     54.0  0.2720  0.52  1.00  2.60  307.0  15.0  288.4  2.0   0  0.00  68.  1002.   3 NAD-SFC NoSubs
 8  5 10 131  2   -3.9  0.100 -9.000 -9.000 -999.   96.     23.3  0.2720  0.52  1.00  1.00  317.0  15.0  287.9  2.0   0  0.00  69.  1003.   3 NAD-SFC NoSubs
 8  5 10 131  3   -1.6  0.084 -9.000 -9.000 -999.   58.     31.9  0.2940  0.52  1.00  0.50    6.0  15.0  287.5  2.0   0  0.00  69.  1003.   3 NAD-SFC NoSubs
 8  5 10 131  4   -1.7  0.085 -9.000 -9.000 -999.   59.     32.2  0.2940  0.52  1.00  0.50   25.0  15.0  287.0  2.0   0  0.00  71.  1003.   2 NAD-SFC NoSubs
 8  5 10 131  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  286.5  2.0   0  0.00  73.  1004.   2 NAD-SFC NoSubs
 8  5 10 131  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.52  0.00    0.0  15.0  286.2  2.0   0  0.00  74.  1004.   2 NAD-SFC NoSubs
 8  5 10 131  7   30.8  0.149  0.580  0.008  227.  138.     -9.6  0.2930  0.52  0.29  1.00  337.0  15.0  287.2  2.0   0  0.00  68.  1005.   2 NAD-SFC NoSubs
 8  5 10 131  8   77.3  0.163  0.905  0.007  344.  158.     -5.0  0.2720  0.52  0.22  1.00  309.0  15.0  288.8  2.0   0  0.00  61.  1005.   2 NAD-SFC NoSubs
 8  5 10 131  9  117.7  0.113  1.175  0.007  494.   92.     -1.1  0.2720  0.52  0.20  0.50  304.0  15.0  290.4  2.0   0  0.00  55.  1004.   2 NAD-SFC NoSubs
 8  5 10 131 10  149.6 -9.000 -9.000 -9.000  647. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  292.1  2.0   0  0.00  50.  1004.   2 NAD-SFC NoSubs
 8  5 10 131 11  171.2 -9.000 -9.000 -9.000  797. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  293.8  2.0   0  0.00  46.  1004.   2 NAD-SFC NoSubs
 8  5 10 131 12  181.6 -9.000 -9.000 -9.000  933. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  295.4  2.0   0  0.00  41.  1003.   2 NAD-SFC NoSubs
 8  5 10 131 13  181.1  0.120  1.742  0.008 1045.  100.     -1.0  0.2720  0.52  0.19  0.50  313.0  15.0  296.9  2.0   0  0.00  37.  1002.   2 NAD-SFC NoSubs
 8  5 10 131 14  169.3  0.119  1.752  0.009 1136.   99.     -1.0  0.2720  0.52  0.19  0.50  327.0  15.0  297.9  2.0   0  0.00  35.  1001.   2 NAD-SFC NoSubs
 8  5 10 131 15  146.2  0.180  1.705  0.009 1210.  183.     -3.6  0.2930  0.52  0.19  1.00  345.0  15.0  298.6  2.0   0  0.00  34.  1000.   2 NAD-SFC NoSubs
 8  5 10 131 16  113.1  0.225  1.587  0.009 1264.  257.     -9.0  0.2930  0.52  0.20  1.50  352.0  15.0  298.9  2.0   0  0.00  33.  1000.   2 NAD-SFC NoSubs
 8  5 10 131 17   71.5  0.271  1.374  0.009 1296.  338.    -24.7  0.2940  0.52  0.23  2.10    6.0  15.0  298.9  2.0   0  0.00  34.  1000.   2 NAD-SFC NoSubs
 8  5 10 131 18   24.6  0.238  0.966  0.009 1306.  280.    -49.1  0.2470  0.52  0.32  2.10   32.0  15.0  298.5  2.0   0  0.00  41.  1000.   2 NAD-SFC NoSubs
 8  5 10 131 19   -7.0  0.133 -9.000 -9.000 -999.  122.     30.3  0.2470  0.52  0.61  1.50   35.0  15.0  297.5  2.0   0  0.00  44.  1000.   2 NAD-SFC NoSubs
 8  5 10 131 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  296.1  2.0   0  0.00  48.  1001.   2 NAD-SFC NoSubs
 8  5 10 131 21  -13.0  0.173 -9.000 -9.000 -999.  173.     35.5  0.1750  0.52  1.00  2.10  246.0  15.0  294.5  2.0   0  0.00  54.  1001.   2 NAD-SFC NoSubs
 8  5 10 131 22  -42.2  0.398 -9.000 -9.000 -999.  602.    133.3  0.1750  0.52  1.00  4.60  264.0  15.0  291.4  2.0   0  0.00  66.  1002.   2 NAD-SFC NoSubs
 8  5 10 131 23  -39.7  0.372 -9.000 -9.000 -999.  546.    116.1  0.2160  0.52  1.00  4.10  272.0  15.0  289.6  2.0   0  0.00  73.  1002.   2 NAD-SFC NoSubs
 8  5 10 131 24  -28.1  0.263 -9.000 -9.000 -999.  331.     57.9  0.1750  0.52  1.00  3.10  268.0  15.0  289.1  2.0   0  0.00  74.  1002.   2 NAD-SFC NoSubs
 8  5 11 132  1  -22.4  0.230 -9.000 -9.000 -999.  266.     48.7  0.2160  0.52  1.00  2.60  296.0  15.0  288.9  2.0   0  0.00  73.  1002.   2 NAD-SFC NoSubs
 8  5 11 132  2  -25.0  0.246 -9.000 -9.000 -999.  293.     53.2  0.2720  0.52  1.00  2.60  319.0  15.0  288.6  2.0   0  0.00  74.  1002.   2 NAD-SFC NoSubs
 8  5 11 132  3  -16.6  0.200 -9.000 -9.000 -999.  215.     42.8  0.2930  0.52  1.00  2.10  332.0  15.0  288.1  2.0   0  0.00  77.  1002.   2 NAD-SFC NoSubs
 8  5 11 132  4   -8.3  0.140 -9.000 -9.000 -999.  126.     29.3  0.2930  0.52  1.00  1.50  342.0  15.0  287.6  2.0   0  0.00  80.  1003.   2 NAD-SFC NoSubs
 8  5 11 132  5   -4.1  0.103 -9.000 -9.000 -999.   79.     23.6  0.2930  0.52  1.00  1.00  349.0  15.0  286.9  2.0   0  0.00  84.  1003.   2 NAD-SFC NoSubs
 8  5 11 132  6   -1.1  0.070 -9.000 -9.000 -999.   45.     27.9  0.2940  0.52  0.52  0.50    6.0  15.0  286.5  2.0   0  0.00  86.  1003.   2 NAD-SFC NoSubs
 8  5 11 132  7   31.5  0.197  0.528  0.010  167.  210.    -21.8  0.2940  0.52  0.29  1.50   19.0  15.0  287.8  2.0   0  0.00  80.  1003.   2 NAD-SFC NoSubs
 8  5 11 132  8   78.0 -9.000 -9.000 -9.000  290. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  289.8  2.0   0  0.00  71.  1003.   2 NAD-SFC NoSubs
 8  5 11 132  9  118.5 -9.000 -9.000 -9.000  408. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  291.8  2.0   0  0.00  62.  1002.   2 NAD-SFC NoSubs
 8  5 11 132 10  150.5 -9.000 -9.000 -9.000  564. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  293.8  2.0   0  0.00  54.  1002.   2 NAD-SFC NoSubs
 8  5 11 132 11  172.2 -9.000 -9.000 -9.000  719. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  295.5  2.0   0  0.00  48.  1001.   2 NAD-SFC NoSubs
 8  5 11 132 12  182.6 -9.000 -9.000 -9.000  882. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  297.1  2.0   0  0.00  42.  1000.   2 NAD-SFC NoSubs
 8  5 11 132 13  182.0  0.185  1.725  0.009 1006.  191.     -3.1  0.2930  0.52  0.19  1.00  345.0  15.0  298.4  2.0   0  0.00  38.   999.   2 NAD-SFC NoSubs
 8  5 11 132 14  170.2  0.237  1.731  0.009 1089.  276.     -6.9  0.2930  0.52  0.19  1.50  346.0  15.0  299.4  2.0   0  0.00  35.   999.   3 NAD-SFC NoSubs
 8  5 11 132 15  147.2  0.338  1.683  0.010 1155.  471.    -23.3  0.2930  0.52  0.19  2.60  354.0  15.0  299.8  2.0   0  0.00  34.   998.   3 NAD-SFC NoSubs
 8  5 11 132 16  114.3  0.468  1.568  0.010 1204.  768.    -79.8  0.2940  0.52  0.20  4.10    5.0  15.0  299.8  2.0   0  0.00  36.   998.   3 NAD-SFC NoSubs
 8  5 11 132 17   72.9  0.409  1.361  0.010 1232.  631.    -83.7  0.2940  0.52  0.23  3.60   13.0  15.0  299.2  2.0   0  0.00  45.   999.   3 NAD-SFC NoSubs
 8  5 11 132 18   25.9  0.483  0.965  0.010 1239.  805.   -388.2  0.2930  0.52  0.32  4.60  347.0  15.0  297.2  2.0   0  0.00  61.   999.   3 NAD-SFC NoSubs
 8  5 11 132 19  -39.5  0.459 -9.000 -9.000 -999.  748.    218.6  0.2930  0.52  0.61  4.60  345.0  15.0  293.9  2.0   0  0.00  75.  1000.   3 NAD-SFC NoSubs
 8  5 11 132 20  -29.3  0.297 -9.000 -9.000 -999.  409.     79.6  0.2720  0.52  1.00  3.10  322.0  15.0  293.1  2.0   0  0.00  77.  1000.   4 NAD-SFC NoSubs
 8  5 11 132 21  -27.5  0.278 -9.000 -9.000 -999.  353.     69.9  0.2160  0.52  1.00  3.10  299.0  15.0  292.8  2.0   0  0.00  77.  1000.   4 NAD-SFC NoSubs
 8  5 11 132 22  -26.3  0.279 -9.000 -9.000 -999.  353.     73.6  0.2160  0.52  1.00  3.10  282.0  15.0  292.4  2.0   0  0.00  77.  1001.   5 NAD-SFC NoSubs
 8  5 11 132 23  -27.7  0.278 -9.000 -9.000 -999.  353.     69.6  0.2160  0.52  1.00  3.10  274.0  15.0  291.6  2.0   0  0.00  78.  1001.   4 NAD-SFC NoSubs
 8  5 11 132 24  -27.8  0.278 -9.000 -9.000 -999.  353.     69.3  0.2160  0.52  1.00  3.10  297.0  15.0  290.4  2.0   0  0.00  77.  1001.   4 NAD-SFC NoSubs
 8  5 12 133  1  -29.8  0.297 -9.000 -9.000 -999.  388.     78.4  0.2720  0.52  1.00  3.10  318.0  15.0  289.1  2.0   0  0.00  75.  1001.   4 NAD-SFC NoSubs
 8  5 12 133  2  -23.6  0.247 -9.000 -9.000 -999.  295.     56.8  0.2720  0.52  1.00  2.60  313.0  15.0  288.2  2.0   0  0.00  72.  1001.   5 NAD-SFC NoSubs
 8  5 12 133  3  -15.6  0.196 -9.000 -9.000 -999.  209.     43.0  0.2720  0.52  1.00  2.10  300.0  15.0  287.8  2.0   0  0.00  69.  1002.   4 NAD-SFC NoSubs
 8  5 12 133  4   -7.2  0.129 -9.000 -9.000 -999.  112.     26.6  0.2160  0.52  1.00  1.50  296.0  15.0  287.2  2.0   0  0.00  68.  1002.   3 NAD-SFC NoSubs
 8  5 12 133  5   -7.2  0.129 -9.000 -9.000 -999.  111.     26.6  0.2160  0.52  1.00  1.50  298.0  15.0  286.8  2.0   0  0.00  68.  1002.   3 NAD-SFC NoSubs
 8  5 12 133  6   -2.4  0.087 -9.000 -9.000 -999.   62.     24.2  0.2160  0.52  0.51  1.00  287.0  15.0  286.5  2.0   0  0.00  69.  1002.   3 NAD-SFC NoSubs
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 8  5 12 133   7   33.2  0.253  0.607  0.007  241.  306.    -43.8  0.2930  0.52  0.29   2.10  344.0  15.0  287.8  2.0   0  0.00  64.  1002.   3 NAD-SFC NoSubs
 8  5 12 133   8   79.1  0.273  0.969  0.007  411.  343.    -23.1  0.2930  0.52  0.22   2.10  339.0  15.0  289.2  2.0   0  0.00  58.  1002.   3 NAD-SFC NoSubs
 8  5 12 133   9  119.0  0.227  1.226  0.006  554.  260.     -8.7  0.2930  0.52  0.20   1.50  334.0  15.0  290.8  2.0   0  0.00  52.  1002.   3 NAD-SFC NoSubs
 8  5 12 133  10  150.4  0.229  1.430  0.005  696.  263.     -7.1  0.2720  0.52  0.19   1.50  328.0  15.0  292.2  2.0   0  0.00  47.  1002.   3 NAD-SFC NoSubs
 8  5 12 133  11  171.7  0.291  1.587  0.005  833.  376.    -12.8  0.2720  0.52  0.19   2.10  328.0  15.0  293.6  2.0   0  0.00  42.  1001.   3 NAD-SFC NoSubs
 8  5 12 133  12  181.7  0.339  1.695  0.005  957.  474.    -19.2  0.2720  0.52  0.19   2.60  326.0  15.0  294.8  2.0   0  0.00  37.  1000.   3 NAD-SFC NoSubs
 8  5 12 133  13  181.2  0.437  1.882  0.008 1313.  694.    -41.1  0.2930  0.52  0.19   3.60  334.0  15.0  295.6  2.0   0  0.00  33.   999.   2 NAD-SFC NoSubs
 8  5 12 133  14  169.3  0.563  1.880  0.009 1400. 1012.    -93.7  0.2720  0.52  0.19   5.10  329.0  15.0  296.2  2.0   0  0.00  31.   998.   2 NAD-SFC NoSubs
 8  5 12 133  15  146.1  0.671  1.813  0.009 1454. 1315.   -183.7  0.2930  0.52  0.19   6.20  335.0  15.0  296.4  2.0   0  0.00  31.   998.   2 NAD-SFC NoSubs
 8  5 12 133  16  112.8  0.711  1.679  0.009 1495. 1437.   -283.6  0.2930  0.52  0.20   6.70  332.0  15.0  296.1  2.0   0  0.00  33.   997.   2 NAD-SFC NoSubs
 8  5 12 133  17   71.1  0.549  1.448  0.009 1519. 1005.   -206.4  0.2930  0.52  0.23   5.10  332.0  15.0  295.5  2.0   0  0.00  41.   997.   2 NAD-SFC NoSubs
 8  5 12 133  18   24.1  0.434  1.011  0.009 1525.  701.   -302.0  0.2930  0.52  0.32   4.10  332.0  15.0  294.4  2.0   0  0.00  49.   998.   2 NAD-SFC NoSubs
 8  5 12 133  19  -40.0  0.449 -9.000 -9.000 -999.  722.    201.6  0.2720  0.52  0.60   4.60  318.0  15.0  292.8  2.0   0  0.00  52.   998.   2 NAD-SFC NoSubs
 8  5 12 133  20  -42.0  0.397 -9.000 -9.000 -999.  603.    132.7  0.2720  0.52  1.00   4.10  321.0  15.0  291.4  2.0   0  0.00  53.   999.   2 NAD-SFC NoSubs
 8  5 12 133  21  -36.7  0.347 -9.000 -9.000 -999.  492.    101.0  0.2720  0.52  1.00   3.60  319.0  15.0  290.8  2.0   0  0.00  53.   999.   2 NAD-SFC NoSubs
 8  5 12 133  22   -7.2  0.129 -9.000 -9.000 -999.  169.     26.4  0.2160  0.52  1.00   1.50  292.0  15.0  290.1  2.0   0  0.00  53.  1000.   2 NAD-SFC NoSubs
 8  5 12 133  23  -13.7  0.178 -9.000 -9.000 -999.  180.     36.6  0.1950  0.52  1.00   2.10  237.0  15.0  289.5  2.0   0  0.00  53.  1000.   2 NAD-SFC NoSubs
 8  5 12 133  24  -28.9  0.270 -9.000 -9.000 -999.  338.     61.1  0.1950  0.52  1.00   3.10  227.0  15.0  288.8  2.0   0  0.00  53.  1000.   2 NAD-SFC NoSubs
 8  5 13 134   1  -29.0  0.270 -9.000 -9.000 -999.  338.     60.9  0.1950  0.52  1.00   3.10  228.0  15.0  288.0  2.0   0  0.00  54.  1001.   2 NAD-SFC NoSubs
 8  5 13 134   2  -28.3  0.263 -9.000 -9.000 -999.  324.     57.4  0.1750  0.52  1.00   3.10  245.0  15.0  286.9  2.0   0  0.00  56.  1001.   2 NAD-SFC NoSubs
 8  5 13 134   3  -22.5  0.230 -9.000 -9.000 -999.  266.     48.4  0.2160  0.52  1.00   2.60  274.0  15.0  285.9  2.0   0  0.00  60.  1002.   2 NAD-SFC NoSubs
 8  5 13 134   4  -14.5  0.183 -9.000 -9.000 -999.  188.     37.7  0.2160  0.52  1.00   2.10  278.0  15.0  285.1  2.0   0  0.00  65.  1003.   2 NAD-SFC NoSubs
 8  5 13 134   5  -14.5  0.183 -9.000 -9.000 -999.  187.     37.6  0.2160  0.52  1.00   2.10  271.0  15.0  284.4  2.0   0  0.00  67.  1003.   2 NAD-SFC NoSubs
 8  5 13 134   6  -10.5  0.177 -9.000 -9.000 -999.  178.     46.9  0.1750  0.52  0.51   2.10  260.0  15.0  284.1  2.0   0  0.00  67.  1004.   2 NAD-SFC NoSubs
 8  5 13 134   7   32.2  0.194  0.451  0.010  102.  205.    -20.4  0.2720  0.52  0.29   1.50  302.0  15.0  286.2  2.0   0  0.00  56.  1005.   2 NAD-SFC NoSubs
 8  5 13 134   8   78.6  0.194  0.808  0.010  240.  205.     -8.3  0.1750  0.52  0.22   1.50  254.0  15.0  288.4  2.0   0  0.00  48.  1005.   2 NAD-SFC NoSubs
 8  5 13 134   9  119.2  0.297  1.089  0.009  389.  388.    -19.6  0.1750  0.52  0.20   2.60  244.0  15.0  291.1  2.0   0  0.00  37.  1005.   2 NAD-SFC NoSubs
 8  5 13 134  10  151.0  0.261  1.306  0.008  529.  321.    -10.6  0.1750  0.52  0.19   2.10  253.0  15.0  293.1  2.0   0  0.00  32.  1005.   2 NAD-SFC NoSubs
 8  5 13 134  11  172.6  0.109  1.466  0.007  655.  107.     -1.0  0.1750  0.52  0.19   0.50  258.0  15.0  294.9  2.0   0  0.00  29.  1004.   2 NAD-SFC NoSubs
 8  5 13 134  12  183.0  0.110  1.600  0.006  801.   87.     -1.0  0.1750  0.52  0.19   0.50  261.0  15.0  296.8  2.0   0  0.00  24.  1003.   2 NAD-SFC NoSubs
 8  5 13 134  13  182.5 -9.000 -9.000 -9.000  926. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  298.2  2.0   0  0.00  21.  1003.   2 NAD-SFC NoSubs
 8  5 13 134  14  170.8  0.119  1.711  0.005 1051.   99.     -1.0  0.2720  0.52  0.19   0.50  320.0  15.0  299.2  2.0   0  0.00  20.  1003.   2 NAD-SFC NoSubs
 8  5 13 134  15  147.8  0.180  1.687  0.005 1163.  184.     -3.5  0.2930  0.52  0.19   1.00  351.0  15.0  299.8  2.0   0  0.00  20.  1002.   2 NAD-SFC NoSubs
 8  5 13 134  16  114.8  0.284  1.585  0.005 1242.  363.    -17.8  0.2940  0.52  0.20   2.10   11.0  15.0  300.0  2.0   0  0.00  21.  1002.   2 NAD-SFC NoSubs
 8  5 13 134  17   73.2  0.306  1.381  0.005 1288.  406.    -35.0  0.2470  0.52  0.23   2.60   34.0  15.0  299.6  2.0   0  0.00  25.  1003.   2 NAD-SFC NoSubs
 8  5 13 134  18   26.3  0.283  0.986  0.005 1302.  363.    -77.4  0.2470  0.52  0.32   2.60   53.0  15.0  298.8  2.0   0  0.00  34.  1003.   2 NAD-SFC NoSubs
 8  5 13 134  19  -20.3  0.241 -9.000 -9.000 -999.  285.     61.6  0.2470  0.52  0.60   2.60   58.0  15.0  297.9  2.0   0  0.00  34.  1003.   2 NAD-SFC NoSubs
 8  5 13 134  20  -14.0  0.181 -9.000 -9.000 -999.  186.     38.1  0.2090  0.52  1.00   2.10   85.0  15.0  296.6  2.0   0  0.00  36.  1004.   2 NAD-SFC NoSubs
 8  5 13 134  21   -3.6  0.096 -9.000 -9.000 -999.   74.     22.4  0.2130  0.52  1.00   1.00  110.0  15.0  295.0  2.0   0  0.00  41.  1004.   2 NAD-SFC NoSubs
 8  5 13 134  22   -1.4  0.079 -9.000 -9.000 -999.   53.     31.0  0.1810  0.52  1.00   0.50  165.0  15.0  293.2  2.0   0  0.00  47.  1004.   2 NAD-SFC NoSubs
 8  5 13 134  23   -1.5  0.080 -9.000 -9.000 -999.   54.     31.2  0.1970  0.52  1.00   0.50  143.0  15.0  291.8  2.0   0  0.00  52.  1005.   2 NAD-SFC NoSubs
 8  5 13 134  24   -3.5  0.095 -9.000 -9.000 -999.   71.     22.1  0.1970  0.52  1.00   1.00  124.0  15.0  290.6  2.0   0  0.00  56.  1005.   2 NAD-SFC NoSubs
 8  5 14 135   1   -3.5  0.095 -9.000 -9.000 -999.   71.     22.1  0.1970  0.52  1.00   1.00  120.0  15.0  289.6  2.0   0  0.00  58.  1005.   2 NAD-SFC NoSubs
 8  5 14 135   2   -3.5  0.096 -9.000 -9.000 -999.   71.     22.1  0.1970  0.52  1.00   1.00  121.0  15.0  288.9  2.0   0  0.00  58.  1005.   2 NAD-SFC NoSubs
 8  5 14 135   3   -1.4  0.079 -9.000 -9.000 -999.   54.     31.0  0.1750  0.52  1.00   0.50  255.0  15.0  288.5  2.0   0  0.00  57.  1005.   2 NAD-SFC NoSubs
 8  5 14 135   4   -3.7  0.097 -9.000 -9.000 -999.   73.     22.4  0.2160  0.52  1.00   1.00  281.0  15.0  288.0  2.0   0  0.00  58.  1005.   2 NAD-SFC NoSubs
 8  5 14 135   5   -7.3  0.129 -9.000 -9.000 -999.  111.     26.3  0.2160  0.52  1.00   1.50  290.0  15.0  287.6  2.0   0  0.00  61.  1006.   2 NAD-SFC NoSubs
 8  5 14 135   6   -2.5  0.087 -9.000 -9.000 -999.   62.     24.1  0.2160  0.52  0.50   1.00  282.0  15.0  287.2  2.0   0  0.00  61.  1006.   2 NAD-SFC NoSubs
 8  5 14 135   7   33.4  0.195  0.454  0.009  100.  206.    -19.9  0.2720  0.52  0.29   1.50  321.0  15.0  289.2  2.0   0  0.00  53.  1007.   2 NAD-SFC NoSubs
 8  5 14 135   8   79.9  0.108  0.781  0.009  214.   88.     -1.4  0.2720  0.52  0.22   0.50  305.0  15.0  291.2  2.0   0  0.00  49.  1007.   2 NAD-SFC NoSubs
 8  5 14 135   9  120.4 -9.000 -9.000 -9.000  345. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  293.8  2.0   0  0.00  41.  1006.   2 NAD-SFC NoSubs
 8  5 14 135  10  152.4 -9.000 -9.000 -9.000  551. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  296.1  2.0   0  0.00  33.  1006.   2 NAD-SFC NoSubs
 8  5 14 135  11  174.1 -9.000 -9.000 -9.000  750. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  298.0  2.0   0  0.00  28.  1005.   2 NAD-SFC NoSubs
 8  5 14 135  12  184.5 -9.000 -9.000 -9.000  908. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  299.8  2.0   0  0.00  25.  1004.   2 NAD-SFC NoSubs
 8  5 14 135  13  184.1 -9.000 -9.000 -9.000 1028. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  301.1  2.0   0  0.00  23.  1003.   2 NAD-SFC NoSubs
 8  5 14 135  14  172.5 -9.000 -9.000 -9.000 1119. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  302.2  2.0   0  0.00  22.  1003.   2 NAD-SFC NoSubs
 8  5 14 135  15  149.7 -9.000 -9.000 -9.000 1193. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  303.0  2.0   0  0.00  21.  1002.   2 NAD-SFC NoSubs
 8  5 14 135  16  116.9  0.226  1.598  0.006 1248.  258.     -8.9  0.2940  0.52  0.20   1.50   23.0  15.0  303.6  2.0   0  0.00  20.  1001.   2 NAD-SFC NoSubs
 8  5 14 135  17   75.3  0.319  1.392  0.006 1279.  432.    -38.3  0.2940  0.52  0.23   2.60   18.0  15.0  303.0  2.0   0  0.00  25.  1001.   2 NAD-SFC NoSubs
 8  5 14 135  18   28.4  0.343  1.008  0.006 1290.  481.   -126.4  0.2940  0.52  0.31   3.10   19.0  15.0  302.1  2.0   0  0.00  34.  1001.   2 NAD-SFC NoSubs
 8  5 14 135  19  -23.1  0.290 -9.000 -9.000 -999.  377.     94.7  0.2470  0.52  0.59   3.10   35.0  15.0  301.0  2.0   0  0.00  36.  1001.   2 NAD-SFC NoSubs
 8  5 14 135  20  -16.3  0.200 -9.000 -9.000 -999.  218.     43.8  0.2940  0.52  1.00   2.10   27.0  15.0  299.6  2.0   0  0.00  38.  1001.   2 NAD-SFC NoSubs
 8  5 14 135  21   -1.6  0.083 -9.000 -9.000 -999.   68.     31.8  0.2940  0.52  1.00   0.50    3.0  15.0  298.0  2.0   0  0.00  43.  1001.   2 NAD-SFC NoSubs
 8  5 14 135  22   -1.4  0.079 -9.000 -9.000 -999.   54.     31.0  0.1950  0.52  1.00   0.50  229.0  15.0  296.2  2.0   0  0.00  50.  1001.   2 NAD-SFC NoSubs
 8  5 14 135  23   -1.4  0.080 -9.000 -9.000 -999.   54.     31.1  0.1950  0.52  1.00   0.50  236.0  15.0  295.0  2.0   0  0.00  55.  1001.   2 NAD-SFC NoSubs
 8  5 14 135  24   -1.6  0.084 -9.000 -9.000 -999.   58.     31.9  0.2940  0.52  1.00   0.50   12.0  15.0  294.0  2.0   0  0.00  58.  1001.   2 NAD-SFC NoSubs
 8  5 15 136   1   -3.6  0.096 -9.000 -9.000 -999.   72.     22.4  0.2130  0.52  1.00   1.00  109.0  15.0  293.2  2.0   0  0.00  60.  1001.   2 NAD-SFC NoSubs
 8  5 15 136   2   -3.5  0.095 -9.000 -9.000 -999.   70.     22.1  0.1970  0.52  1.00   1.00  144.0  15.0  292.5  2.0   0  0.00  61.  1001.   2 NAD-SFC NoSubs
 8  5 15 136   3   -3.4  0.094 -9.000 -9.000 -999.   69.     21.8  0.1810  0.52  1.00   1.00  176.0  15.0  292.0  2.0   0  0.00  62.  1001.   2 NAD-SFC NoSubs
 8  5 15 136   4   -3.5  0.095 -9.000 -9.000 -999.   70.     22.0  0.1900  0.52  1.00   1.00  207.0  15.0  291.6  2.0   0  0.00  62.  1002.   2 NAD-SFC NoSubs
 8  5 15 136   5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  291.2  2.0   0  0.00  61.  1002.   2 NAD-SFC NoSubs
 8  5 15 136   6   -0.9  0.065 -9.000 -9.000 -999.   39.     26.3  0.2940  0.52  0.50   0.50    8.0  15.0  291.0  2.0   0  0.00  62.  1002.   2 NAD-SFC NoSubs
 8  5 15 136   7   35.0  0.098  0.419  0.012   75.   74.     -2.4  0.2930  0.52  0.29   0.50  336.0  15.0  292.8  2.0   0  0.00  58.  1002.   2 NAD-SFC NoSubs
 8  5 15 136   8   82.0  0.103  0.778  0.008  206.   79.     -1.2  0.2160  0.52  0.22   0.50  287.0  15.0  296.2  2.0   0  0.00  44.  1002.   2 NAD-SFC NoSubs
 8  5 15 136   9  122.7  0.108  1.098  0.006  385.   85.     -1.0  0.2160  0.52  0.20   0.50  290.0  15.0  298.9  2.0   0  0.00  37.  1002.   2 NAD-SFC NoSubs
 8  5 15 136  10  154.7 -9.000 -9.000 -9.000  586. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  301.0  2.0   0  0.00  32.  1001.   2 NAD-SFC NoSubs
 8  5 15 136  11  176.5 -9.000 -9.000 -9.000  803. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  302.6  2.0   0  0.00  30.  1001.   2 NAD-SFC NoSubs
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 8  5 15 136 12  186.9 -9.000 -9.000 -9.000 1029. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 304.0  2.0   0  0.00  28. 1000.   2 NAD-SFC NoSubs
 8  5 15 136 13  186.4  0.121  1.882  0.005 1276.  101.     -1.0 0.2720  0.52  0.19  0.50 309.0  15.0 305.2  2.0   0  0.00  26.  999.   2 NAD-SFC NoSubs
 8  5 15 136 14  174.8  0.120  1.950  0.005 1515.  100.     -1.0 0.2720  0.52  0.19  0.50 306.0  15.0 306.0  2.0   0  0.00  24.  999.   2 NAD-SFC NoSubs
 8  5 15 136 15  152.0  0.118  1.940  0.005 1713.   97.     -1.0 0.2720  0.52  0.19  0.50 307.0  15.0 306.6  2.0   0  0.00  23.  998.   2 NAD-SFC NoSubs
 8  5 15 136 16  119.2 -9.000 -9.000 -9.000 1812. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 307.0  2.0   0  0.00  22.  998.   2 NAD-SFC NoSubs
 8  5 15 136 17   77.9 -9.000 -9.000 -9.000 1860. -999. -99999.0 0.2235  0.52  0.23  0.00   0.0  15.0 306.9  2.0   0  0.00  23.  998.   2 NAD-SFC NoSubs
 8  5 15 136 18   31.2  0.144  1.181  0.005 1877.  131.     -8.5 0.2470  0.52  0.31  1.00  57.0  15.0 306.5  2.0   0  0.00  29.  998.   2 NAD-SFC NoSubs
 8  5 15 136 19  -24.6  0.340 -9.000 -9.000 -999.  476.    142.2 0.2470  0.52  0.58  3.60  57.0  15.0 304.9  2.0   0  0.00  34.  998.   2 NAD-SFC NoSubs
 8  5 15 136 20  -42.4  0.416 -9.000 -9.000 -999.  645.    151.9 0.2090  0.52  1.00  4.60  69.0  15.0 302.9  2.0   0  0.00  38.  999.   2 NAD-SFC NoSubs
 8  5 15 136 21  -33.0  0.323 -9.000 -9.000 -999.  445.     90.8 0.2090  0.52  1.00  3.60  76.0  15.0 301.8  2.0   0  0.00  39. 1000.   2 NAD-SFC NoSubs
 8  5 15 136 22   -3.3  0.093 -9.000 -9.000 -999.  152.     21.6 0.1750  0.52  1.00  1.00 255.0  15.0 299.9  2.0   0  0.00  45. 1000.   2 NAD-SFC NoSubs
 8  5 15 136 23   -7.1  0.129 -9.000 -9.000 -999.  111.     26.8 0.2160  0.52  1.00  1.50 275.0  15.0 298.2  2.0   0  0.00  51. 1001.   2 NAD-SFC NoSubs
 8  5 15 136 24   -1.5  0.080 -9.000 -9.000 -999.   55.     31.2 0.2160  0.52  1.00  0.50 281.0  15.0 297.2  2.0   0  0.00  54. 1001.   2 NAD-SFC NoSubs
 8  5 16 137  1   -1.4  0.079 -9.000 -9.000 -999.   53.     30.8 0.1810  0.52  1.00  0.50 175.0  15.0 296.9  2.0   0  0.00  54. 1002.   2 NAD-SFC NoSubs
 8  5 16 137  2   -6.6  0.123 -9.000 -9.000 -999.  104.     25.2 0.1810  0.52  1.00  1.50 179.0  15.0 296.8  2.0   0  0.00  51. 1002.   2 NAD-SFC NoSubs
 8  5 16 137  3  -32.8  0.315 -9.000 -9.000 -999.  424.     84.9 0.1900  0.52  1.00  3.60 190.0  15.0 296.6  2.0   0  0.00  48. 1002.   2 NAD-SFC NoSubs
 8  5 16 137  4  -47.3  0.452 -9.000 -9.000 -999.  730.    174.8 0.1900  0.52  1.00  5.10 181.0  15.0 295.8  2.0   0  0.00  48. 1003.   2 NAD-SFC NoSubs
 8  5 16 137  5  -46.9  0.447 -9.000 -9.000 -999.  717.    169.8 0.1810  0.52  1.00  5.10 156.0  15.0 294.4  2.0   0  0.00  48. 1003.   2 NAD-SFC NoSubs
 8  5 16 137  6  -24.7  0.510 -9.000 -9.000 -999.  873.    480.8 0.1810  0.52  0.50  5.70 165.0  15.0 294.2  2.0   0  0.00  45. 1004.   2 NAD-SFC NoSubs
 8  5 16 137  7   36.6  0.532  0.423  0.005   74.  931.   -369.0 0.1810  0.52  0.28  5.70 161.0  15.0 296.2  2.0   0  0.00  41. 1005.   2 NAD-SFC NoSubs
 8  5 16 137  8   83.5  0.497  0.861  0.005  274.  842.   -131.4 0.1810  0.52  0.22  5.10 159.0  15.0 298.9  2.0   0  0.00  37. 1005.   2 NAD-SFC NoSubs
 8  5 16 137  9  124.3  0.473  1.241  0.005  552.  782.    -76.4 0.1970  0.52  0.20  4.60 147.0  15.0 301.6  2.0   0  0.00  28. 1005.   2 NAD-SFC NoSubs
 8  5 16 137 10  156.3  0.312  1.509  0.005  789.  439.    -17.4 0.1970  0.52  0.19  2.60 140.0  15.0 303.6  2.0   0  0.00  23. 1005.   2 NAD-SFC NoSubs
 8  5 16 137 11  178.0  0.169  1.728  0.005 1041.  184.     -2.4 0.1970  0.52  0.19  1.00 121.0  15.0 304.9  2.0   0  0.00  21. 1005.   2 NAD-SFC NoSubs
 8  5 16 137 12  188.1 -9.000 -9.000 -9.000 1332. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 305.8  2.0   0  0.00  21. 1004.   2 NAD-SFC NoSubs
 8  5 16 137 13  187.4  0.123  2.055  0.005 1661.  104.     -1.0 0.2930  0.52  0.19  0.50 344.0  15.0 306.5  2.0   0  0.00  21. 1003.   2 NAD-SFC NoSubs
 8  5 16 137 14  175.6  0.184  2.142  0.005 2006.  189.     -3.2 0.2930  0.52  0.19  1.00 349.0  15.0 306.9  2.0   0  0.00  21. 1003.   2 NAD-SFC NoSubs
 8  5 16 137 15  152.6  0.181  2.128  0.005 2262.  185.     -3.5 0.2940  0.52  0.19  1.00   3.0  15.0 307.2  2.0   0  0.00  20. 1002.   2 NAD-SFC NoSubs
 8  5 16 137 16  119.7  0.218  1.996  0.005 2381.  245.     -7.8 0.2470  0.52  0.20  1.50  35.0  15.0 307.2  2.0   0  0.00  21. 1002.   2 NAD-SFC NoSubs
 8  5 16 137 17   78.1  0.263  1.749  0.005 2453.  324.    -20.8 0.2470  0.52  0.23  2.10  48.0  15.0 306.4  2.0   0  0.00  27. 1001.   2 NAD-SFC NoSubs
 8  5 16 137 18   31.3  0.287  1.294  0.005 2478.  368.    -67.2 0.2470  0.52  0.31  2.60  54.0  15.0 305.8  2.0   0  0.00  33. 1002.   2 NAD-SFC NoSubs
 8  5 16 137 19  -16.4  0.231 -9.000 -9.000 -999.  268.     67.6 0.2090  0.52  0.58  2.60  60.0  15.0 304.8  2.0   0  0.00  34. 1002.   2 NAD-SFC NoSubs
 8  5 16 137 20  -21.6  0.229 -9.000 -9.000 -999.  263.     49.5 0.2090  0.52  1.00  2.60  77.0  15.0 303.1  2.0   0  0.00  36. 1002.   2 NAD-SFC NoSubs
 8  5 16 137 21   -3.4  0.094 -9.000 -9.000 -999.   84.     21.9 0.1900  0.52  1.00  1.00 185.0  15.0 301.2  2.0   0  0.00  42. 1002.   2 NAD-SFC NoSubs
 8  5 16 137 22  -31.8  0.308 -9.000 -9.000 -999.  411.     82.3 0.1750  0.52  1.00  3.60 264.0  15.0 299.5  2.0   0  0.00  48. 1003.   2 NAD-SFC NoSubs
 8  5 16 137 23  -27.3  0.263 -9.000 -9.000 -999.  325.     59.8 0.1750  0.52  1.00  3.10 267.0  15.0 298.4  2.0   0  0.00  51. 1003.   2 NAD-SFC NoSubs
 8  5 16 137 24   -7.1  0.129 -9.000 -9.000 -999.  123.     26.7 0.2160  0.52  1.00  1.50 271.0  15.0 297.2  2.0   0  0.00  54. 1003.   2 NAD-SFC NoSubs
 8  5 17 138  1   -1.5  0.080 -9.000 -9.000 -999.   55.     31.2 0.2160  0.52  1.00  0.50 276.0  15.0 296.4  2.0   0  0.00  57. 1003.   2 NAD-SFC NoSubs
 8  5 17 138  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 295.6  2.0   0  0.00  60. 1004.   2 NAD-SFC NoSubs
 8  5 17 138  3   -3.5  0.095 -9.000 -9.000 -999.   70.     22.0 0.1950  0.52  1.00  1.00 214.0  15.0 294.9  2.0   0  0.00  63. 1004.   2 NAD-SFC NoSubs
 8  5 17 138  4   -6.6  0.122 -9.000 -9.000 -999.  103.     24.9 0.1750  0.52  1.00  1.50 242.0  15.0 294.1  2.0   0  0.00  66. 1005.   2 NAD-SFC NoSubs
 8  5 17 138  5  -13.1  0.173 -9.000 -9.000 -999.  173.     35.5 0.1750  0.52  1.00  2.10 267.0  15.0 293.5  2.0   0  0.00  71. 1005.   2 NAD-SFC NoSubs
 8  5 17 138  6   -4.9  0.131 -9.000 -9.000 -999.  115.     41.1 0.2160  0.52  0.49  1.50 276.0  15.0 293.1  2.0   0  0.00  75. 1005.   2 NAD-SFC NoSubs
 8  5 17 138  7   36.6  0.149  0.493  0.013  117.  138.     -8.1 0.2720  0.52  0.28  1.00 313.0  15.0 294.9  2.0   0  0.00  72. 1006.   2 NAD-SFC NoSubs
 8  5 17 138  8   83.0  0.098  0.800  0.011  221.   74.     -1.0 0.1750  0.52  0.22  0.50 268.0  15.0 296.9  2.0   0  0.00  67. 1006.   2 NAD-SFC NoSubs
 8  5 17 138  9  123.7 -9.000 -9.000 -9.000  337. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 299.5  2.0   0  0.00  55. 1005.   2 NAD-SFC NoSubs
 8  5 17 138 10  155.6 -9.000 -9.000 -9.000  484. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 301.6  2.0   0  0.00  46. 1005.   2 NAD-SFC NoSubs
 8  5 17 138 11  177.4 -9.000 -9.000 -9.000  643. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 303.4  2.0   0  0.00  41. 1004.   2 NAD-SFC NoSubs
 8  5 17 138 12  188.0 -9.000 -9.000 -9.000  833. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 305.1  2.0   0  0.00  35. 1003.   2 NAD-SFC NoSubs
 8  5 17 138 13  187.5 -9.000 -9.000 -9.000 1003. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 306.2  2.0   0  0.00  32. 1002.   2 NAD-SFC NoSubs
 8  5 17 138 14  176.0 -9.000 -9.000 -9.000 1193. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 307.1  2.0   0  0.00  30. 1001.   2 NAD-SFC NoSubs
 8  5 17 138 15  153.3  0.120  1.789  0.005 1335.   99.     -1.0 0.2940  0.52  0.19  0.50  25.0  15.0 307.8  2.0   0  0.00  28. 1001.   2 NAD-SFC NoSubs
 8  5 17 138 16  120.5  0.285  1.681  0.005 1409.  366.    -17.2 0.2940  0.52  0.20  2.10  25.0  15.0 307.9  2.0   0  0.00  29. 1000.   2 NAD-SFC NoSubs
 8  5 17 138 17   78.9  0.308  1.475  0.005 1452.  409.    -32.9 0.2470  0.52  0.23  2.60  34.0  15.0 307.1  2.0   0  0.00  38. 1000.   2 NAD-SFC NoSubs
 8  5 17 138 18   32.3  0.299  1.100  0.005 1469.  392.    -73.5 0.2940  0.52  0.31  2.60  27.0  15.0 306.6  2.0   0  0.00  42. 1000.   2 NAD-SFC NoSubs
 8  5 17 138 19  -13.4  0.204 -9.000 -9.000 -999.  224.     56.1 0.2940  0.52  0.57  2.10  11.0  15.0 305.5  2.0   0  0.00  44. 1000.   2 NAD-SFC NoSubs
 8  5 17 138 20   -7.8  0.137 -9.000 -9.000 -999.  123.     29.3 0.2720  0.52  1.00  1.50 313.0  15.0 303.8  2.0   0  0.00  50. 1000.   2 NAD-SFC NoSubs
 8  5 17 138 21  -28.4  0.278 -9.000 -9.000 -999.  352.     67.7 0.2160  0.52  1.00  3.10 291.0  15.0 302.5  2.0   0  0.00  54. 1000.   2 NAD-SFC NoSubs
 8  5 17 138 22  -38.4  0.373 -9.000 -9.000 -999.  546.    120.4 0.2160  0.52  1.00  4.10 276.0  15.0 300.0  2.0   0  0.00  62. 1001.   2 NAD-SFC NoSubs
 8  5 17 138 23  -38.6  0.373 -9.000 -9.000 -999.  546.    119.6 0.2160  0.52  1.00  4.10 276.0  15.0 298.1  2.0   0  0.00  69. 1001.   2 NAD-SFC NoSubs
 8  5 17 138 24  -28.9  0.278 -9.000 -9.000 -999.  357.     66.5 0.2160  0.52  1.00  3.10 284.0  15.0 297.2  2.0   0  0.00  70. 1001.   2 NAD-SFC NoSubs
 8  5 18 139  1  -22.1  0.231 -9.000 -9.000 -999.  267.     49.5 0.2160  0.52  1.00  2.60 279.0  15.0 297.1  2.0   0  0.00  69. 1001.   2 NAD-SFC NoSubs
 8  5 18 139  2  -24.6  0.246 -9.000 -9.000 -999.  293.     54.1 0.2720  0.52  1.00  2.60 309.0  15.0 296.8  2.0   0  0.00  71. 1002.   2 NAD-SFC NoSubs
 8  5 18 139  3  -25.6  0.252 -9.000 -9.000 -999.  303.     55.6 0.2930  0.52  1.00  2.60 334.0  15.0 296.0  2.0   0  0.00  77. 1002.   2 NAD-SFC NoSubs
 8  5 18 139  4  -25.6  0.252 -9.000 -9.000 -999.  303.     55.5 0.2930  0.52  1.00  2.60 341.0  15.0 295.2  2.0   0  0.00  82. 1002.   2 NAD-SFC NoSubs
 8  5 18 139  5  -24.7  0.246 -9.000 -9.000 -999.  293.     53.8 0.2720  0.52  1.00  2.60 329.0  15.0 294.8  2.0   0  0.00  84. 1002.   2 NAD-SFC NoSubs
 8  5 18 139  6   -8.8  0.201 -9.000 -9.000 -999.  217.     82.6 0.2720  0.52  0.49  2.10 312.0  15.0 294.2  2.0   0  0.00  84. 1003.   2 NAD-SFC NoSubs
 8  5 18 139  7   37.1  0.256  0.542  0.009  153.  310.    -40.2 0.2930  0.52  0.28  2.10 343.0  15.0 295.1  2.0   0  0.00  74. 1003.   2 NAD-SFC NoSubs
 8  5 18 139  8   83.3  0.110  0.845  0.010  259.  105.     -1.4 0.2930  0.52  0.22  0.50 352.0  15.0 296.6  2.0   0  0.00  66. 1003.   2 NAD-SFC NoSubs
 8  5 18 139  9  123.6 -9.000 -9.000 -9.000  367. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 298.8  2.0   0  0.00  59. 1003.   2 NAD-SFC NoSubs
 8  5 18 139 10  155.4 -9.000 -9.000 -9.000  535. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 300.5  2.0   0  0.00  55. 1002.   2 NAD-SFC NoSubs
 8  5 18 139 11  177.0 -9.000 -9.000 -9.000  702. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 302.1  2.0   0  0.00  51. 1001.   2 NAD-SFC NoSubs
 8  5 18 139 12  187.4 -9.000 -9.000 -9.000  867. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 303.6  2.0   0  0.00  48. 1000.   2 NAD-SFC NoSubs
 8  5 18 139 13  186.9 -9.000 -9.000 -9.000  999. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 304.8  2.0   0  0.00  45.  999.   2 NAD-SFC NoSubs
 8  5 18 139 14  175.5  0.120  1.749  0.007 1089.  100.     -1.0 0.2720  0.52  0.19  0.50 311.0  15.0 305.6  2.0   0  0.00  42.  999.   2 NAD-SFC NoSubs
 8  5 18 139 15  152.5 -9.000 -9.000 -9.000 1161. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 305.9  2.0   0  0.00  42.  998.   2 NAD-SFC NoSubs
 8  5 18 139 16  119.6  0.331  1.597  0.007 1214.  458.    -27.1 0.2940  0.52  0.20  2.60  24.0  15.0 305.8  2.0   0  0.00  47.  998.   2 NAD-SFC NoSubs
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 8  5 18 139 17   78.2  0.365  1.398  0.007 1246.  530.    -55.5  0.2940  0.52  0.23  3.10   8.0  15.0 305.0  2.0   0  0.00  56.   998.    2 NAD-SFC NoSubs
 8  5 18 139 18   31.3  0.391  1.033  0.007 1257.  586.   -170.1  0.2930  0.52  0.31  3.60 352.0  15.0 303.8  2.0   0  0.00  60.   998.    2 NAD-SFC NoSubs
 8  5 18 139 19  -22.4  0.350 -9.000 -9.000 -999.  499.    171.2  0.2720  0.52  0.57  3.60 325.0  15.0 302.5  2.0   0  0.00  64.   999.    3 NAD-SFC NoSubs
 8  5 18 139 20  -39.6  0.397 -9.000 -9.000 -999.  601.    141.2  0.2720  0.52  1.00  4.10 310.0  15.0 301.4  2.0   0  0.00  67.   999.    3 NAD-SFC NoSubs
 8  5 18 139 21  -37.3  0.373 -9.000 -9.000 -999.  547.    123.8  0.2160  0.52  1.00  4.10 292.0  15.0 300.1  2.0   0  0.00  69.   999.    3 NAD-SFC NoSubs
 8  5 18 139 22  -32.7  0.326 -9.000 -9.000 -999.  447.     94.0  0.2160  0.52  1.00  3.60 285.0  15.0 298.9  2.0   0  0.00  68.   999.    3 NAD-SFC NoSubs
 8  5 18 139 23  -32.8  0.326 -9.000 -9.000 -999.  446.     93.7  0.2160  0.52  1.00  3.60 288.0  15.0 298.0  2.0   0  0.00  66.   999.    3 NAD-SFC NoSubs
 8  5 18 139 24  -35.0  0.347 -9.000 -9.000 -999.  490.    106.2  0.2720  0.52  1.00  3.60 305.0  15.0 297.4  2.0   0  0.00  68.   999.    3 NAD-SFC NoSubs
 8  5 19 140  1  -30.0  0.297 -9.000 -9.000 -999.  389.     77.6  0.2720  0.52  1.00  3.10 324.0  15.0 296.9  2.0   0  0.00  71.  1000.    3 NAD-SFC NoSubs
 8  5 19 140  2  -30.8  0.303 -9.000 -9.000 -999.  401.     80.8  0.2930  0.52  1.00  3.10 345.0  15.0 296.2  2.0   0  0.00  74.  1000.    3 NAD-SFC NoSubs
 8  5 19 140  3  -25.3  0.252 -9.000 -9.000 -999.  304.     56.4  0.2930  0.52  1.00  2.60 359.0  15.0 295.6  2.0   0  0.00  75.  1000.    3 NAD-SFC NoSubs
 8  5 19 140  4  -16.3  0.200 -9.000 -9.000 -999.  216.     44.1  0.2940  0.52  1.00  2.10   7.0  15.0 294.9  2.0   0  0.00  75.  1000.    3 NAD-SFC NoSubs
 8  5 19 140  5   -8.1  0.140 -9.000 -9.000 -999.  126.     30.1  0.2940  0.52  1.00  1.50  14.0  15.0 294.4  2.0   0  0.00  75.  1001.    3 NAD-SFC NoSubs
 8  5 19 140  6   -4.9  0.145 -9.000 -9.000 -999.  133.     56.2  0.2930  0.52  0.49  1.50 352.0  15.0 294.0  2.0   0  0.00  75.  1001.    3 NAD-SFC NoSubs
 8  5 19 140  7   37.1  0.256  0.620  0.008  228.  310.    -40.2  0.2930  0.52  0.28  2.10 347.0  15.0 293.9  2.0   0  0.00  70.  1001.    2 NAD-SFC NoSubs
 8  5 19 140  8   82.9 -9.000 -9.000 -9.000  306. -999. -99999.0  0.2235  0.52  0.22  0.00   0.0  15.0 294.6  2.0   0  0.00  62.  1001.    2 NAD-SFC NoSubs
 8  5 19 140  9  123.1 -9.000 -9.000 -9.000  402. -999. -99999.0  0.2235  0.52  0.20  0.00   0.0  15.0 296.6  2.0   0  0.00  56.  1001.    2 NAD-SFC NoSubs
 8  5 19 140 10  154.9 -9.000 -9.000 -9.000  599. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 298.8  2.0   0  0.00  51.  1001.    2 NAD-SFC NoSubs
 8  5 19 140 11  176.5 -9.000 -9.000 -9.000  768. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 300.4  2.0   0  0.00  48.  1000.    2 NAD-SFC NoSubs
 8  5 19 140 12  186.9 -9.000 -9.000 -9.000  916. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 302.1  2.0   0  0.00  46.   999.    2 NAD-SFC NoSubs
 8  5 19 140 13  186.6 -9.000 -9.000 -9.000 1019. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 303.5  2.0   0  0.00  43.   998.    2 NAD-SFC NoSubs
 8  5 19 140 14  175.2 -9.000 -9.000 -9.000 1092. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 304.6  2.0   0  0.00  39.   998.    2 NAD-SFC NoSubs
 8  5 19 140 15  152.6  0.111  1.703  0.011 1152.   89.    -1.0  0.2130  0.52  0.19  0.50 110.0  15.0 305.5  2.0   0  0.00  37.   997.    2 NAD-SFC NoSubs
 8  5 19 140 16  120.1  0.227  1.592  0.011 1196.  260.    -8.7  0.2940  0.52  0.20  1.50  19.0  15.0 305.9  2.0   0  0.00  32.   997.    2 NAD-SFC NoSubs
 8  5 19 140 17   79.0  0.274  1.396  0.011 1224.  344.   -23.1  0.2940  0.52  0.23  2.10  20.0  15.0 305.6  2.0   0  0.00  35.   996.    2 NAD-SFC NoSubs
 8  5 19 140 18   32.6  0.244  1.042  0.011 1234.  289.   -39.5  0.2470  0.52  0.31  2.10  35.0  15.0 305.2  2.0   0  0.00  42.   997.    2 NAD-SFC NoSubs
 8  5 19 140 19   -6.5  0.142 -9.000 -9.000 -999.  133.    38.6  0.2930  0.52  0.56  1.50 354.0  15.0 304.1  2.0   0  0.00  46.   997.    2 NAD-SFC NoSubs
 8  5 19 140 20  -47.7  0.468 -9.000 -9.000 -999.  768.   190.8  0.2160  0.52  1.00  5.10 276.0  15.0 301.8  2.0   0  0.00  52.   998.    2 NAD-SFC NoSubs
 8  5 19 140 21  -46.0  0.443 -9.000 -9.000 -999.  709.   168.3  0.1750  0.52  1.00  5.10 269.0  15.0 296.6  2.0   0  0.00  62.   998.    2 NAD-SFC NoSubs
 8  5 19 140 22  -41.6  0.398 -9.000 -9.000 -999.  604.   134.8  0.1750  0.52  1.00  4.60 269.0  15.0 294.6  2.0   0  0.00  64.   999.    2 NAD-SFC NoSubs
 8  5 19 140 23  -32.4  0.308 -9.000 -9.000 -999.  415.    80.5  0.1750  0.52  1.00  3.60 268.0  15.0 293.4  2.0   0  0.00  67.   999.    2 NAD-SFC NoSubs
 8  5 19 140 24  -20.4  0.218 -9.000 -9.000 -999.  248.    45.4  0.1750  0.52  1.00  2.60 266.0  15.0 292.5  2.0   0  0.00  68.   999.    2 NAD-SFC NoSubs
 8  5 20 141  1   -7.9  0.137 -9.000 -9.000 -999.  124.    28.7  0.2720  0.52  1.00  1.50 300.0  15.0 292.1  2.0   0  0.00  68.   999.    2 NAD-SFC NoSubs
 8  5 20 141  2   -4.0  0.102 -9.000 -9.000 -999.   78.    23.6  0.2930  0.52  1.00  1.00 352.0  15.0 291.6  2.0   0  0.00  69.  1000.    2 NAD-SFC NoSubs
 8  5 20 141  3   -3.9  0.101 -9.000 -9.000 -999.   77.    23.3  0.2720  0.52  1.00  1.00 306.0  15.0 291.0  2.0   0  0.00  69.  1000.    2 NAD-SFC NoSubs
 8  5 20 141  4   -6.6  0.122 -9.000 -9.000 -999.  103.    24.7  0.1750  0.52  1.00  1.50 266.0  15.0 290.5  2.0   0  0.00  69.  1000.    2 NAD-SFC NoSubs
 8  5 20 141  5  -13.1  0.173 -9.000 -9.000 -999.  173.    35.2  0.1750  0.52  1.00  2.10 268.0  15.0 289.9  2.0   0  0.00  69.  1000.    2 NAD-SFC NoSubs
 8  5 20 141  6   -4.8  0.132 -9.000 -9.000 -999.  115.    41.9  0.2160  0.52  0.48  1.50 285.0  15.0 289.5  2.0   0  0.00  70.  1001.    2 NAD-SFC NoSubs
 8  5 20 141  7   36.5  0.282  0.538  0.012  152.  359.   -54.7  0.2160  0.52  0.28  2.60 290.0  15.0 290.5  2.0   0  0.00  65.  1001.    2 NAD-SFC NoSubs
 8  5 20 141  8   82.4  0.164  0.852  0.013  267.  167.    -4.8  0.2720  0.52  0.22  1.00 304.0  15.0 292.0  2.0   0  0.00  61.  1001.    2 NAD-SFC NoSubs
 8  5 20 141  9  122.4 -9.000 -9.000 -9.000  385. -999. -99999.0  0.2235  0.52  0.20  0.00   0.0  15.0 294.0  2.0   0  0.00  55.  1001.    2 NAD-SFC NoSubs
 8  5 20 141 10  153.9 -9.000 -9.000 -9.000  488. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 295.6  2.0   0  0.00  51.  1001.    2 NAD-SFC NoSubs
 8  5 20 141 11  175.4 -9.000 -9.000 -9.000  584. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 297.4  2.0   0  0.00  45.  1001.    2 NAD-SFC NoSubs
 8  5 20 141 12  185.7  0.121  1.528  0.010  686.  101.    -1.0  0.2720  0.52  0.19  0.50 324.0  15.0 299.0  2.0   0  0.00  42.  1000.    2 NAD-SFC NoSubs
 8  5 20 141 13  185.4  0.239  1.629  0.012  834.  281.    -6.6  0.2930  0.52  0.19  1.50 332.0  15.0 300.6  2.0   0  0.00  39.  1000.    2 NAD-SFC NoSubs
 8  5 20 141 14  173.9  0.389  1.668  0.013  952.  583.   -30.2  0.2930  0.52  0.19  3.10 337.0  15.0 301.6  2.0   0  0.00  38.   999.    2 NAD-SFC NoSubs
 8  5 20 141 15  151.0  0.477  1.623  0.012 1010.  789.   -63.9  0.2930  0.52  0.19  4.10 355.0  15.0 301.8  2.0   0  0.00  39.   999.    2 NAD-SFC NoSubs
 8  5 20 141 16  118.5  0.562  1.515  0.012 1046. 1009.  -133.1  0.2930  0.52  0.20  5.10 353.0  15.0 301.5  2.0   0  0.00  42.   999.    3 NAD-SFC NoSubs
 8  5 20 141 17   77.7  0.504  1.325  0.012 1068.  862.  -146.6  0.2930  0.52  0.22  4.60 353.0  15.0 300.6  2.0   0  0.00  52.   999.    3 NAD-SFC NoSubs
 8  5 20 141 18   31.3  0.486  0.981  0.012 1075.  814.  -326.5  0.2930  0.52  0.31  4.60 346.0  15.0 299.2  2.0   0  0.00  58.  1000.    3 NAD-SFC NoSubs
 8  5 20 141 19  -31.1  0.462 -9.000 -9.000 -999.  754.   282.1  0.2930  0.52  0.56  4.60 339.0  15.0 297.2  2.0   0  0.00  61.  1000.    3 NAD-SFC NoSubs
 8  5 20 141 20  -40.4  0.397 -9.000 -9.000 -999.  604.   138.5  0.2720  0.52  1.00  4.10 327.0  15.0 295.8  2.0   0  0.00  66.  1000.    3 NAD-SFC NoSubs
 8  5 20 141 21  -45.7  0.448 -9.000 -9.000 -999.  719.   175.3  0.2720  0.52  1.00  4.60 321.0  15.0 294.8  2.0   0  0.00  69.  1000.    3 NAD-SFC NoSubs
 8  5 20 141 22  -51.1  0.499 -9.000 -9.000 -999.  844.   216.2  0.2720  0.52  1.00  5.10 308.0  15.0 293.2  2.0   0  0.00  76.  1000.    3 NAD-SFC NoSubs
 8  5 20 141 23  -46.1  0.448 -9.000 -9.000 -999.  722.   173.4  0.2720  0.52  1.00  4.60 308.0  15.0 291.8  2.0   0  0.00  76.  1000.    3 NAD-SFC NoSubs
 8  5 20 141 24  -39.6  0.397 -9.000 -9.000 -999.  604.   141.4  0.2720  0.52  1.00  4.10 323.0  15.0 290.6  2.0   0  0.00  78.  1000.    4 NAD-SFC NoSubs
 8  5 21 142  1  -29.7  0.297 -9.000 -9.000 -999.  394.    78.6  0.2720  0.52  1.00  3.10 323.0  15.0 289.6  2.0   0  0.00  78.  1001.    4 NAD-SFC NoSubs
 8  5 21 142  2  -24.2  0.246 -9.000 -9.000 -999.  295.    55.2  0.2720  0.52  1.00  2.60 322.0  15.0 288.9  2.0   0  0.00  77.  1001.    4 NAD-SFC NoSubs
 8  5 21 142  3  -15.5  0.196 -9.000 -9.000 -999.  209.    43.1  0.2720  0.52  1.00  2.10 312.0  15.0 288.2  2.0   0  0.00  76.  1001.    4 NAD-SFC NoSubs
 8  5 21 142  4  -15.6  0.196 -9.000 -9.000 -999.  208.    43.0  0.2720  0.52  1.00  2.10 300.0  15.0 287.6  2.0   0  0.00  75.  1001.    4 NAD-SFC NoSubs
 8  5 21 142  5   -7.2  0.129 -9.000 -9.000 -999.  112.    26.6  0.2160  0.52  1.00  1.50 278.0  15.0 287.0  2.0   0  0.00  75.  1001.    3 NAD-SFC NoSubs
 8  5 21 142  6   -4.6  0.132 -9.000 -9.000 -999.  116.    45.5  0.2160  0.52  0.48  1.50 277.0  15.0 286.8  2.0   0  0.00  75.  1002.    3 NAD-SFC NoSubs
 8  5 21 142  7   37.4  0.595  0.667  0.005  282. 1101.   -502.0  0.2930  0.52  0.28  5.70 341.0  15.0 288.6  2.0   0  0.00  61.  1002.    3 NAD-SFC NoSubs
 8  5 21 142  8   82.2  0.656  1.000  0.005  435. 1274.   -307.3  0.2930  0.52  0.22  6.20 344.0  15.0 290.2  2.0   0  0.00  50.  1002.    2 NAD-SFC NoSubs
 8  5 21 142  9  121.9  0.654  1.218  0.005  529. 1270.   -204.8  0.2720  0.52  0.20  6.20 326.0  15.0 291.8  2.0   0  0.00  43.  1001.    2 NAD-SFC NoSubs
 8  5 21 142 10  153.2  0.707  1.390  0.005  627. 1423.   -205.7  0.2720  0.52  0.19  6.70 328.0  15.0 292.9  2.0   0  0.00  39.  1001.    2 NAD-SFC NoSubs
 8  5 21 142 11  174.4  0.711  1.612  0.005  858. 1437.   -183.4  0.2720  0.52  0.19  6.70 326.0  15.0 294.1  2.0   0  0.00  34.  1000.    2 NAD-SFC NoSubs
 8  5 21 142 12  184.4  0.725  1.763  0.005 1061. 1479.   -183.8  0.2930  0.52  0.19  6.70 335.0  15.0 295.2  2.0   0  0.00  30.   999.    2 NAD-SFC NoSubs
 8  5 21 142 13  183.9  0.759  1.840  0.006 1207. 1583.   -211.2  0.2720  0.52  0.19  7.20 328.0  15.0 296.5  2.0   0  0.00  27.   998.    2 NAD-SFC NoSubs
 8  5 21 142 14  172.3  0.770  1.859  0.006 1329. 1620.   -235.5  0.2930  0.52  0.19  7.20 332.0  15.0 297.2  2.0   0  0.00  25.   997.    2 NAD-SFC NoSubs
 8  5 21 142 15  149.4  0.753  1.814  0.006 1423. 1569.   -253.5  0.2720  0.52  0.19  7.20 328.0  15.0 297.5  2.0   0  0.00  25.   996.    2 NAD-SFC NoSubs
 8  5 21 142 16  116.6  0.700  1.697  0.005 1490. 1411.   -260.6  0.2720  0.52  0.20  6.70 326.0  15.0 297.2  2.0   0  0.00  28.   995.    2 NAD-SFC NoSubs
 8  5 21 142 17   75.6  0.456  1.482  0.006 1530.  805.   -111.5  0.2930  0.52  0.22  4.10 334.0  15.0 296.5  2.0   0  0.00  37.   995.    2 NAD-SFC NoSubs
 8  5 21 142 18   29.2  0.337  1.083  0.006 1545.  486.   -116.4  0.2720  0.52  0.30  3.10 326.0  15.0 295.6  2.0   0  0.00  43.   994.    2 NAD-SFC NoSubs
 8  5 21 142 19   -1.0  0.068 -9.000 -9.000 -999.  204.    27.6  0.1900  0.52  0.55  0.50 186.0  15.0 295.4  2.0   0  0.00  39.   993.    2 NAD-SFC NoSubs
 8  5 21 142 20  -33.1  0.318 -9.000 -9.000 -999.  429.    85.7  0.1970  0.52  1.00  3.60 145.0  15.0 294.2  2.0   0  0.00  39.   993.    2 NAD-SFC NoSubs
 8  5 21 142 21  -47.7  0.456 -9.000 -9.000 -999.  740.   176.2  0.1970  0.52  1.00  5.10 121.0  15.0 292.8  2.0   0  0.00  43.   993.    2 NAD-SFC NoSubs
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 8  5 21 142 22  -28.5  0.271 -9.000 -9.000 -999.  368.    62.1  0.1970  0.52  1.00  3.10  124.0  15.0  292.0  2.0   0  0.00   46.   993.    2 NAD-SFC NoSubs
 8  5 21 142 23   -3.6  0.096 -9.000 -9.000 -999.  117.    22.4  0.2130  0.52  1.00  1.00  100.0  15.0  291.8  2.0   0  0.00   46.   993.    2 NAD-SFC NoSubs
 8  5 21 142 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  290.8  2.0   0  0.00   49.   992.    2 NAD-SFC NoSubs
 8  5 22 143  1  -21.2  0.224 -9.000 -9.000 -999.  255.    47.0  0.1950  0.52  1.00  2.60  215.0  15.0  289.6  2.0   0  0.00   54.   992.    2 NAD-SFC NoSubs
 8  5 22 143  2  -28.7  0.270 -9.000 -9.000 -999.  338.    61.0  0.1950  0.52  1.00  3.10  221.0  15.0  288.2  2.0   0  0.00   59.   992.    2 NAD-SFC NoSubs
 8  5 22 143  3  -28.8  0.270 -9.000 -9.000 -999.  338.    60.7  0.1950  0.52  1.00  3.10  222.0  15.0  287.2  2.0   0  0.00   63.   992.    2 NAD-SFC NoSubs
 8  5 22 143  4  -28.9  0.270 -9.000 -9.000 -999.  338.    60.5  0.1950  0.52  1.00  3.10  214.0  15.0  286.2  2.0   0  0.00   66.   991.    2 NAD-SFC NoSubs
 8  5 22 143  5  -33.6  0.314 -9.000 -9.000 -999.  423.    81.6  0.1900  0.52  1.00  3.60  201.0  15.0  285.6  2.0   0  0.00   68.   991.    2 NAD-SFC NoSubs
 8  5 22 143  6  -12.6  0.270 -9.000 -9.000 -999.  338.   138.8  0.1810  0.52  0.48  3.10  179.0  15.0  285.1  2.0   0  0.00   72.   992.    2 NAD-SFC NoSubs
 8  5 22 143  7   36.4  0.595  0.627  0.005  239. 1100.  -510.1  0.2930  0.52  0.28  5.70  345.0  15.0  287.6  2.0   0  0.00   58.   992.    2 NAD-SFC NoSubs
 8  5 22 143  8   82.3  0.802  0.996  0.005  424. 1719.  -553.1  0.2930  0.52  0.22  7.70  340.0  15.0  289.6  2.0   0  0.00   45.   991.    2 NAD-SFC NoSubs
 8  5 22 143  9  122.0  0.761  1.219  0.005  525. 1599.  -319.4  0.2930  0.52  0.20  7.20  338.0  15.0  291.0  2.0   0  0.00   38.   991.    2 NAD-SFC NoSubs
 8  5 22 143 10  153.1  0.767  1.397  0.005  630. 1611.  -260.0  0.2930  0.52  0.19  7.20  334.0  15.0  291.9  2.0   0  0.00   35.   990.    3 NAD-SFC NoSubs
 8  5 22 143 11  174.2  0.770  1.561  0.005  771. 1623.  -231.7  0.2930  0.52  0.19  7.20  335.0  15.0  292.9  2.0   0  0.00   31.   990.    2 NAD-SFC NoSubs
 8  5 22 143 12  184.1  0.713  1.681  0.005  911. 1451.  -173.2  0.2720  0.52  0.19  6.70  322.0  15.0  293.8  2.0   0  0.00   28.   988.    2 NAD-SFC NoSubs
 8  5 22 143 13  183.4  0.713  1.763  0.005 1053. 1444.  -173.6  0.2720  0.52  0.19  6.70  323.0  15.0  294.6  2.0   0  0.00   26.   987.    2 NAD-SFC NoSubs
 8  5 22 143 14  171.8  0.711  1.796  0.005 1188. 1438.  -183.6  0.2720  0.52  0.19  6.70  325.0  15.0  295.2  2.0   0  0.00   25.   986.    2 NAD-SFC NoSubs
 8  5 22 143 15  149.0  0.706  1.763  0.005 1293. 1425.  -207.8  0.2720  0.52  0.19  6.70  316.0  15.0  295.6  2.0   0  0.00   24.   985.    2 NAD-SFC NoSubs
 8  5 22 143 16  116.4  0.653  1.659  0.005 1379. 1273.  -210.3  0.2720  0.52  0.20  6.20  320.0  15.0  295.8  2.0   0  0.00   25.   985.    2 NAD-SFC NoSubs
 8  5 22 143 17   75.5  0.403  1.458  0.005 1441.  682.   -76.3  0.2720  0.52  0.22  3.60  322.0  15.0  295.2  2.0   0  0.00   32.   984.    2 NAD-SFC NoSubs
 8  5 22 143 18   29.3  0.247  1.069  0.005 1461.  323.   -45.1  0.2720  0.52  0.30  2.10  319.0  15.0  294.8  2.0   0  0.00   38.   985.    2 NAD-SFC NoSubs
 8  5 22 143 19   -2.7  0.089 -9.000 -9.000 -999.   99.    23.0  0.2160  0.52  0.55  1.00  292.0  15.0  294.5  2.0   0  0.00   36.   985.    2 NAD-SFC NoSubs
 8  5 22 143 20   -6.8  0.126 -9.000 -9.000 -999.  107.    25.7  0.1950  0.52  1.00  1.50  224.0  15.0  294.0  2.0   0  0.00   35.   985.    2 NAD-SFC NoSubs
 8  5 22 143 21  -28.1  0.271 -9.000 -9.000 -999.  338.    62.1  0.1950  0.52  1.00  3.10  224.0  15.0  293.2  2.0   0  0.00   35.   986.    2 NAD-SFC NoSubs
 8  5 22 143 22  -33.1  0.317 -9.000 -9.000 -999.  427.    84.4  0.1950  0.52  1.00  3.60  239.0  15.0  291.2  2.0   0  0.00   43.   986.    2 NAD-SFC NoSubs
 8  5 22 143 23  -32.3  0.308 -9.000 -9.000 -999.  410.    79.4  0.1750  0.52  1.00  3.60  241.0  15.0  289.6  2.0   0  0.00   50.   986.    2 NAD-SFC NoSubs
 8  5 22 143 24  -21.1  0.224 -9.000 -9.000 -999.  258.    46.9  0.1950  0.52  1.00  2.60  214.0  15.0  288.5  2.0   0  0.00   53.   986.    2 NAD-SFC NoSubs
 8  5 23 144  1  -13.4  0.177 -9.000 -9.000 -999.  179.    36.1  0.1900  0.52  1.00  2.10  186.0  15.0  287.6  2.0   0  0.00   57.   987.    2 NAD-SFC NoSubs
 8  5 23 144  2  -21.2  0.224 -9.000 -9.000 -999.  255.    46.7  0.1950  0.52  1.00  2.60  222.0  15.0  286.9  2.0   0  0.00   59.   987.    2 NAD-SFC NoSubs
 8  5 23 144  3  -20.3  0.218 -9.000 -9.000 -999.  244.    44.8  0.1750  0.52  1.00  2.60  241.0  15.0  286.0  2.0   0  0.00   63.   987.    2 NAD-SFC NoSubs
 8  5 23 144  4  -13.0  0.173 -9.000 -9.000 -999.  173.    34.9  0.1750  0.52  1.00  2.10  264.0  15.0  285.2  2.0   0  0.00   68.   987.    2 NAD-SFC NoSubs
 8  5 23 144  5   -6.6  0.123 -9.000 -9.000 -999.  103.    24.5  0.1750  0.52  1.00  1.50  261.0  15.0  284.6  2.0   0  0.00   71.   988.    2 NAD-SFC NoSubs
 8  5 23 144  6   -4.0  0.125 -9.000 -9.000 -999.  107.    43.0  0.1750  0.52  0.47  1.50  267.0  15.0  284.5  2.0   0  0.00   72.   989.    3 NAD-SFC NoSubs
 8  5 23 144  7   37.7  0.099  0.536  0.008  144.   75.    -2.3  0.2930  0.52  0.28  0.50  335.0  15.0  287.0  2.0   0  0.00   58.   990.    3 NAD-SFC NoSubs
 8  5 23 144  8   83.2  0.197  0.907  0.006  316.  210.    -8.1  0.1810  0.52  0.22  1.50  171.0  15.0  289.1  2.0   0  0.00   48.   990.    3 NAD-SFC NoSubs
 8  5 23 144  9  122.4  0.205  1.193  0.005  490.  223.    -6.3  0.1810  0.52  0.20  1.50  168.0  15.0  290.5  2.0   0  0.00   43.   990.    3 NAD-SFC NoSubs
 8  5 23 144 10  153.2  0.213  1.421  0.005  662.  236.    -5.6  0.1900  0.52  0.19  1.50  191.0  15.0  291.6  2.0   0  0.00   40.   990.    3 NAD-SFC NoSubs
 8  5 23 144 11  174.2  0.218  1.637  0.005  890.  244.    -5.2  0.1950  0.52  0.19  1.50  215.0  15.0  292.8  2.0   0  0.00   37.   990.    3 NAD-SFC NoSubs
 8  5 23 144 12  184.0  0.214  1.800  0.005 1121.  238.    -4.7  0.1750  0.52  0.19  1.50  244.0  15.0  293.8  2.0   0  0.00   34.   990.    3 NAD-SFC NoSubs
 8  5 23 144 13  183.7  0.166  1.907  0.005 1335.  163.    -2.2  0.1750  0.52  0.19  1.00  258.0  15.0  294.8  2.0   0  0.00   30.   990.    2 NAD-SFC NoSubs
 8  5 23 144 14  172.1  0.172  1.960  0.005 1546.  171.    -2.6  0.2160  0.52  0.19  1.00  274.0  15.0  295.5  2.0   0  0.00   27.   989.    2 NAD-SFC NoSubs
 8  5 23 144 15  149.5  0.112  1.932  0.005 1707.   90.    -1.0  0.2160  0.52  0.19  0.50  294.0  15.0  296.1  2.0   0  0.00   25.   990.    2 NAD-SFC NoSubs
 8  5 23 144 16  117.0  0.113  1.814  0.005 1805.   92.    -1.1  0.2720  0.52  0.20  0.50  302.0  15.0  296.4  2.0   0  0.00   25.   990.    2 NAD-SFC NoSubs
 8  5 23 144 17   76.2  0.334  1.586  0.005 1853.  464.   -43.2  0.1950  0.52  0.22  3.10  229.0  15.0  295.9  2.0   0  0.00   31.   991.    2 NAD-SFC NoSubs
 8  5 23 144 18   30.3  0.583  1.168  0.005 1861. 1069.  -578.9  0.1950  0.52  0.30  6.20  239.0  15.0  292.6  2.0   0  0.00   57.   992.    3 NAD-SFC NoSubs
 8  5 23 144 19  -27.1  0.401 -9.000 -9.000 -999.  641.   211.8  0.1750  0.52  0.54  4.60  254.0  15.0  291.5  2.0   0  0.00   62.   994.    3 NAD-SFC NoSubs
 8  5 23 144 20  -45.8  0.443 -9.000 -9.000 -999.  707.   168.4  0.1750  0.52  1.00  5.10  248.0  15.0  289.2  2.0   0  0.00   71.   995.    3 NAD-SFC NoSubs
 8  5 23 144 21  -41.4  0.398 -9.000 -9.000 -999.  604.   135.0  0.1750  0.52  1.00  4.60  240.0  15.0  287.5  2.0   0  0.00   75.   996.    3 NAD-SFC NoSubs
 8  5 23 144 22  -28.3  0.271 -9.000 -9.000 -999.  348.    62.3  0.1950  0.52  1.00  3.10  232.0  15.0  286.9  2.0   0  0.00   77.   998.    3 NAD-SFC NoSubs
 8  5 23 144 23  -13.4  0.178 -9.000 -9.000 -999.  185.    37.7  0.1950  0.52  1.00  2.10  223.0  15.0  286.6  2.0   0  0.00   78.   999.    4 NAD-SFC NoSubs
 8  5 23 144 24   -3.4  0.094 -9.000 -9.000 -999.   72.    22.0  0.1950  0.52  1.00  1.00  236.0  15.0  286.4  2.0   0  0.00   77.   999.    4 NAD-SFC NoSubs
 8  5 24 145  1   -1.3  0.076 -9.000 -9.000 -999.   50.    30.0  0.1750  0.52  1.00  0.50  253.0  15.0  285.9  2.0   0  0.00   78.  1000.    5 NAD-SFC NoSubs
 8  5 24 145  2   -1.1  0.071 -9.000 -9.000 -999.   46.    28.6  0.1750  0.52  1.00  0.50  243.0  15.0  285.8  2.0   0  0.00   79.  1000.    7 NAD-SFC NoSubs
 8  5 24 145  3   -0.8  0.061 -9.000 -9.000 -999.   37.    25.5  0.1950  0.52  1.00  0.50  223.0  15.0  285.8  2.0   0  0.00   79.  1001.   10 NAD-SFC NoSubs
 8  5 24 145  4   -2.2  0.084 -9.000 -9.000 -999.   59.    24.1  0.1950  0.52  1.00  1.00  234.0  15.0  285.9  2.0   0  0.00   78.  1001.   10 NAD-SFC NoSubs
 8  5 24 145  5   -0.8  0.061 -9.000 -9.000 -999.   36.    25.2  0.1750  0.52  1.00  0.50  257.0  15.0  285.9  2.0   0  0.00   78.  1002.   10 NAD-SFC NoSubs
 8  5 24 145  6    2.9 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.47  0.00    0.0  15.0  285.9  2.0   0  0.00   77.  1002.   10 NAD-SFC NoSubs
 8  5 24 145  7    6.6  0.078  0.371  0.005  276.   52.    -6.4  0.2720  0.52  0.28  0.50  310.0  15.0  285.9  2.0   0  0.00   76.  1003.   10 NAD-SFC NoSubs
 8  5 24 145  8   55.9  0.205  0.903  0.005  472.  223.   -13.8  0.2720  0.52  0.22  1.50  304.0  15.0  285.9  2.0   0  0.00   70.  1003.    8 NAD-SFC NoSubs
 8  5 24 145  9  116.5  0.107  1.299  0.005  674.   89.    -1.0  0.2160  0.52  0.20  0.50  288.0  15.0  286.2  2.0   0  0.00   67.  1003.    5 NAD-SFC NoSubs
 8  5 24 145 10  150.3 -9.000 -9.000 -9.000  843. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  287.4  2.0   0  0.00   63.  1003.    4 NAD-SFC NoSubs
 8  5 24 145 11  165.3 -9.000 -9.000 -9.000 1004. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  289.2  2.0   0  0.00   56.  1003.    5 NAD-SFC NoSubs
 8  5 24 145 12  174.7 -9.000 -9.000 -9.000 1181. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  290.9  2.0   0  0.00   51.  1002.    5 NAD-SFC NoSubs
 8  5 24 145 13  180.2  0.114  1.890  0.005 1339.   93.    -1.0  0.2160  0.52  0.19  0.50  286.0  15.0  292.2  2.0   0  0.00   46.  1001.    4 NAD-SFC NoSubs
 8  5 24 145 14  168.9  0.221  1.907  0.005 1468.  250.    -5.7  0.2160  0.52  0.19  1.50  287.0  15.0  292.4  2.0   0  0.00   44.  1001.    4 NAD-SFC NoSubs
 8  5 24 145 15  146.8  0.217  1.863  0.005 1573.  243.    -6.2  0.2160  0.52  0.19  1.50  291.0  15.0  292.8  2.0   0  0.00   43.  1000.    4 NAD-SFC NoSubs
 8  5 24 145 16  116.9  0.164  1.756  0.006 1655.  160.    -3.3  0.2160  0.52  0.20  1.00  276.0  15.0  294.0  2.0   0  0.00   38.   999.    3 NAD-SFC NoSubs
 8  5 24 145 17   76.8  0.202  1.542  0.006 1704.  218.    -9.6  0.2160  0.52  0.22  1.50  279.0  15.0  294.2  2.0   0  0.00   37.   999.    3 NAD-SFC NoSubs
 8  5 24 145 18   31.1  0.226  1.145  0.006 1721.  258.   -33.1  0.1750  0.52  0.30  2.10  263.0  15.0  293.8  2.0   0  0.00   45.  1000.    3 NAD-SFC NoSubs
 8  5 24 145 19  -27.8  0.424 -9.000 -9.000 -999.  663.   245.2  0.2160  0.52  0.54  4.60  270.0  15.0  292.1  2.0   0  0.00   54.  1001.    3 NAD-SFC NoSubs
 8  5 24 145 20  -37.4  0.373 -9.000 -9.000 -999.  548.   123.9  0.2160  0.52  1.00  4.10  274.0  15.0  289.5  2.0   0  0.00   66.  1002.    4 NAD-SFC NoSubs
 8  5 24 145 21  -38.3  0.399 -9.000 -9.000 -999.  604.   148.0  0.1750  0.52  1.00  4.60  268.0  15.0  287.8  2.0   0  0.00   72.  1003.    5 NAD-SFC NoSubs
 8  5 24 145 22  -42.4  0.469 -9.000 -9.000 -999.  770.   217.8  0.2160  0.52  1.00  5.10  273.0  15.0  286.6  2.0   0  0.00   74.  1004.    6 NAD-SFC NoSubs
 8  5 24 145 23  -18.2  0.330 -9.000 -9.000 -999.  469.   176.0  0.2160  0.52  1.00  3.60  272.0  15.0  285.9  2.0   0  0.00   77.  1005.   10 NAD-SFC NoSubs
 8  5 24 145 24  -13.0  0.235 -9.000 -9.000 -999.  278.    89.2  0.2160  0.52  1.00  2.60  285.0  15.0  285.5  2.0   0  0.00   78.  1004.   10 NAD-SFC NoSubs
 8  5 25 146  1  -10.4  0.188 -9.000 -9.000 -999.  196.    56.8  0.2160  0.52  1.00  2.10  299.0  15.0  285.1  2.0   0  0.25   79.  1005.   10 NAD-SFC NoSubs
 8  5 25 146  2  -15.7  0.282 -9.000 -9.000 -999.  360.   128.4  0.2160  0.52  1.00  3.10  299.0  15.0  284.8  2.0   0  0.25   81.  1004.   10 NAD-SFC NoSubs
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 8  5 25 146  3  -13.0  0.235 -9.000 -9.000 -999.  274.     88.9  0.2160  0.52  1.00  2.60  298.0  15.0  284.5  2.0  0  0.25  82.  1004.  10 NAD-SFC NoSubs
 8  5 25 146  4  -10.4  0.188 -9.000 -9.000 -999.  196.     56.7  0.2160  0.52  1.00  2.10  296.0  15.0  284.4  2.0  0  0.25  83.  1004.  10 NAD-SFC NoSubs
 8  5 25 146  5  -11.1  0.200 -9.000 -9.000 -999.  215.     64.5  0.2720  0.52  1.00  2.10  309.0  15.0  284.2  2.0  0  0.00  85.  1004.  10 NAD-SFC NoSubs
 8  5 25 146  6   -4.9  0.142 -9.000 -9.000 -999.  129.     52.5  0.2720  0.52  0.47  1.50  318.0  15.0  284.1  2.0  0  0.00  86.  1005.  10 NAD-SFC NoSubs
 8  5 25 146  7    6.3  0.169  0.352  0.005  247.  167.    -69.2  0.2720  0.52  0.28  1.50  320.0  15.0  284.1  2.0  0  0.00  86.  1005.  10 NAD-SFC NoSubs
 8  5 25 146  8   17.6  0.138  0.552  0.005  340.  123.    -13.2  0.2720  0.52  0.22  1.00  327.0  15.0  284.2  2.0  0  0.00  83.  1005.  10 NAD-SFC NoSubs
 8  5 25 146  9   97.9 -9.000 -9.000 -9.000  550. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  284.6  2.0  0  0.00  81.  1005.   7 NAD-SFC NoSubs
 8  5 25 146 10  145.1 -9.000 -9.000 -9.000  756. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  285.2  2.0  0  0.00  78.  1005.   5 NAD-SFC NoSubs
 8  5 25 146 11  170.5 -9.000 -9.000 -9.000  955. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  286.4  2.0  0  0.00  72.  1005.   4 NAD-SFC NoSubs
 8  5 25 146 12  180.5 -9.000 -9.000 -9.000 1067. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  289.2  2.0  0  0.00  59.  1004.   4 NAD-SFC NoSubs
 8  5 25 146 13  174.0 -9.000 -9.000 -9.000 1160. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  291.0  2.0  0  0.00  51.  1003.   5 NAD-SFC NoSubs
 8  5 25 146 14  169.0 -9.000 -9.000 -9.000 1245. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  292.2  2.0  0  0.00  46.  1001.   4 NAD-SFC NoSubs
 8  5 25 146 15  147.2 -9.000 -9.000 -9.000 1313. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  293.0  2.0  0  0.00  43.  1001.   4 NAD-SFC NoSubs
 8  5 25 146 16  117.0  0.226  1.656  0.005 1387.  259.     -8.8  0.2940  0.52  0.20  1.50   27.0  15.0  293.2  2.0  0  0.00  42.  1000.   3 NAD-SFC NoSubs
 8  5 25 146 17   76.9  0.307  1.460  0.005 1446.  408.    -33.5  0.2470  0.52  0.22  2.60   44.0  15.0  293.4  2.0  0  0.00  43.  1000.   3 NAD-SFC NoSubs
 8  5 25 146 18   32.0  0.147  1.096  0.005 1468.  156.     -8.9  0.2720  0.52  0.30  1.00  317.0  15.0  293.1  2.0  0  0.25  48.  1001.   4 NAD-SFC NoSubs
 8  5 25 146 19  -14.9  0.360 -9.000 -9.000 -999.  518.    279.5  0.1750  0.52  0.53  4.10  262.0  15.0  291.6  2.0  0  0.51  58.  1001.   7 NAD-SFC NoSubs
 8  5 25 146 20  -37.3  0.373 -9.000 -9.000 -999.  546.    124.0  0.2160  0.52  1.00  4.10  270.0  15.0  289.8  2.0  0  0.25  67.  1002.   4 NAD-SFC NoSubs
 8  5 25 146 21  -44.7  0.443 -9.000 -9.000 -999.  708.    174.0  0.1750  0.52  1.00  5.10  258.0  15.0  287.5  2.0  0  0.00  71.  1002.   4 NAD-SFC NoSubs
 8  5 25 146 22  -35.9  0.353 -9.000 -9.000 -999.  509.    109.9  0.1750  0.52  1.00  4.10  259.0  15.0  286.1  2.0  0  0.00  76.  1003.   4 NAD-SFC NoSubs
 8  5 25 146 23  -20.1  0.218 -9.000 -9.000 -999.  257.     46.5  0.1750  0.52  1.00  2.60  247.0  15.0  285.4  2.0  0  0.00  79.  1004.   4 NAD-SFC NoSubs
 8  5 25 146 24   -6.6  0.125 -9.000 -9.000 -999.  111.     26.7  0.1950  0.52  1.00  1.50  218.0  15.0  285.2  2.0  0  0.00  79.  1004.   5 NAD-SFC NoSubs
 8  5 26 147  1   -2.2  0.084 -9.000 -9.000 -999.   59.     23.9  0.1900  0.52  1.00  1.00  208.0  15.0  285.2  2.0  0  0.00  78.  1004.  10 NAD-SFC NoSubs
 8  5 26 147  2   -0.8  0.061 -9.000 -9.000 -999.   37.     25.5  0.1950  0.52  1.00  0.50  213.0  15.0  285.0  2.0  0  0.00  79.  1004.  10 NAD-SFC NoSubs
 8  5 26 147  3   -5.1  0.127 -9.000 -9.000 -999.  109.     36.2  0.1950  0.52  1.00  1.50  234.0  15.0  284.8  2.0  0  0.00  79.  1004.  10 NAD-SFC NoSubs
 8  5 26 147  4  -12.4  0.222 -9.000 -9.000 -999.  252.     79.8  0.1750  0.52  1.00  2.60  261.0  15.0  284.5  2.0  0  0.00  80.  1004.  10 NAD-SFC NoSubs
 8  5 26 147  5  -13.1  0.235 -9.000 -9.000 -999.  273.     88.8  0.2160  0.52  1.00  2.60  278.0  15.0  284.2  2.0  0  0.00  81.  1004.  10 NAD-SFC NoSubs
 8  5 26 147  6   -2.0  0.136 -9.000 -9.000 -999.  125.    115.9  0.2160  0.52  0.47  1.50  293.0  15.0  284.2  2.0  0  0.00  81.  1005.   7 NAD-SFC NoSubs
 8  5 26 147  7   26.5  0.144  0.574  0.005  255.  131.    -10.1  0.2720  0.52  0.28  1.00  322.0  15.0  284.6  2.0  0  0.00  78.  1006.   8 NAD-SFC NoSubs
 8  5 26 147  8   75.5  0.104  0.935  0.005  388.   81.     -1.4  0.2470  0.52  0.22  0.50   45.0  15.0  285.2  2.0  0  0.00  73.  1006.   6 NAD-SFC NoSubs
 8  5 26 147  9  117.0 -9.000 -9.000 -9.000  665. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  287.0  2.0  0  0.00  66.  1006.   5 NAD-SFC NoSubs
 8  5 26 147 10  151.0 -9.000 -9.000 -9.000  863. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  288.8  2.0  0  0.00  60.  1005.   4 NAD-SFC NoSubs
 8  5 26 147 11  155.6 -9.000 -9.000 -9.000 1009. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  290.2  2.0  0  0.00  56.  1005.   6 NAD-SFC NoSubs
 8  5 26 147 12  181.3 -9.000 -9.000 -9.000 1118. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  291.8  2.0  0  0.00  50.  1004.   4 NAD-SFC NoSubs
 8  5 26 147 13  180.9 -9.000 -9.000 -9.000 1218. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  293.1  2.0  0  0.00  46.  1003.   4 NAD-SFC NoSubs
 8  5 26 147 14  172.2 -9.000 -9.000 -9.000 1306. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  294.0  2.0  0  0.00  42.  1003.   3 NAD-SFC NoSubs
 8  5 26 147 15  149.9  0.119  1.802  0.005 1399.   99.     -1.0  0.2940  0.52  0.19  0.50    4.0  15.0  294.8  2.0  0  0.00  40.  1002.   3 NAD-SFC NoSubs
 8  5 26 147 16  117.9  0.227  1.695  0.005 1478.  259.     -8.8  0.2940  0.52  0.20  1.50    6.0  15.0  295.0  2.0  0  0.00  39.  1002.   3 NAD-SFC NoSubs
 8  5 26 147 17   77.9  0.319  1.493  0.005 1528.  433.    -37.3  0.2940  0.52  0.22  2.60   18.0  15.0  295.1  2.0  0  0.00  39.  1002.   3 NAD-SFC NoSubs
 8  5 26 147 18   32.4  0.299  1.119  0.005 1547.  392.    -73.5  0.2940  0.52  0.30  2.60   27.0  15.0  294.6  2.0  0  0.00  49.  1002.   3 NAD-SFC NoSubs
 8  5 26 147 19  -17.5  0.292 -9.000 -9.000 -999.  379.    127.3  0.2470  0.52  0.53  3.10   35.0  15.0  293.8  2.0  0  0.00  52.  1003.   3 NAD-SFC NoSubs
 8  5 26 147 20  -13.9  0.183 -9.000 -9.000 -999.  194.     39.7  0.2160  0.52  1.00  2.10  291.0  15.0  292.6  2.0  0  0.00  55.  1003.   4 NAD-SFC NoSubs
 8  5 26 147 21  -44.5  0.443 -9.000 -9.000 -999.  708.    175.3  0.1750  0.52  1.00  5.10  265.0  15.0  289.6  2.0  0  0.00  66.  1004.   4 NAD-SFC NoSubs
 8  5 26 147 22  -40.3  0.398 -9.000 -9.000 -999.  605.    140.2  0.1750  0.52  1.00  4.60  266.0  15.0  287.2  2.0  0  0.00  73.  1004.   4 NAD-SFC NoSubs
 8  5 26 147 23  -35.9  0.353 -9.000 -9.000 -999.  505.    109.9  0.1750  0.52  1.00  4.10  266.0  15.0  286.1  2.0  0  0.00  77.  1005.   4 NAD-SFC NoSubs
 8  5 26 147 24  -31.6  0.326 -9.000 -9.000 -999.  447.     98.1  0.2160  0.52  1.00  3.60  270.0  15.0  285.2  2.0  0  0.00  81.  1005.   5 NAD-SFC NoSubs
 8  5 27 148  1  -31.7  0.326 -9.000 -9.000 -999.  446.     97.8  0.2160  0.52  1.00  3.60  290.0  15.0  284.6  2.0  0  0.00  84.  1005.   5 NAD-SFC NoSubs
 8  5 27 148  2  -22.6  0.247 -9.000 -9.000 -999.  298.     60.0  0.2720  0.52  1.00  2.60  304.0  15.0  284.2  2.0  0  0.00  85.  1005.   6 NAD-SFC NoSubs
 8  5 27 148  3   -7.4  0.140 -9.000 -9.000 -999.  132.     33.4  0.2930  0.52  1.00  1.50  338.0  15.0  284.2  2.0  0  0.00  85.  1005.   7 NAD-SFC NoSubs
 8  5 27 148  4   -1.3  0.076 -9.000 -9.000 -999.   52.     29.7  0.2930  0.52  1.00  0.50  358.0  15.0  284.0  2.0  0  0.00  85.  1006.   7 NAD-SFC NoSubs
 8  5 27 148  5   -1.5  0.081 -9.000 -9.000 -999.   55.     31.1  0.2940  0.52  1.00  0.50   24.0  15.0  283.8  2.0  0  0.00  86.  1006.   5 NAD-SFC NoSubs
 8  5 27 148  6   18.7 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.46  0.00    0.0  15.0  283.6  2.0  0  0.00  87.  1006.   5 NAD-SFC NoSubs
 8  5 27 148  7   38.9  0.153  0.681  0.007  291.  143.     -8.2  0.2930  0.52  0.28  1.00  354.0  15.0  285.2  2.0  0  0.00  74.  1007.   4 NAD-SFC NoSubs
 8  5 27 148  8   83.0 -9.000 -9.000 -9.000  413. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  286.8  2.0  0  0.00  68.  1006.   4 NAD-SFC NoSubs
 8  5 27 148  9  121.2 -9.000 -9.000 -9.000  566. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  288.2  2.0  0  0.00  62.  1006.   4 NAD-SFC NoSubs
 8  5 27 148 10  151.4 -9.000 -9.000 -9.000  715. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  289.8  2.0  0  0.00  56.  1006.   4 NAD-SFC NoSubs
 8  5 27 148 11  172.0 -9.000 -9.000 -9.000  858. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  291.2  2.0  0  0.00  53.  1005.   4 NAD-SFC NoSubs
 8  5 27 148 12  181.8 -9.000 -9.000 -9.000  995. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  292.8  2.0  0  0.00  50.  1004.   4 NAD-SFC NoSubs
 8  5 27 148 13  184.0 -9.000 -9.000 -9.000 1160. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  294.0  2.0  0  0.00  45.  1004.   3 NAD-SFC NoSubs
 8  5 27 148 14  172.8  0.120  1.843  0.006 1298.   99.     -1.0  0.2720  0.52  0.19  0.50  323.0  15.0  295.1  2.0  0  0.00  40.  1003.   3 NAD-SFC NoSubs
 8  5 27 148 15  150.5  0.119  1.802  0.006 1392.   99.     -1.0  0.2930  0.52  0.19  0.50  338.0  15.0  295.8  2.0  0  0.00  37.  1002.   3 NAD-SFC NoSubs
 8  5 27 148 16  118.6  0.175  1.689  0.007 1455.  176.     -4.1  0.2930  0.52  0.20  1.00  348.0  15.0  296.1  2.0  0  0.00  35.  1002.   3 NAD-SFC NoSubs
 8  5 27 148 17   78.7  0.314  1.487  0.007 1495.  422.    -35.1  0.2720  0.52  0.22  2.60  328.0  15.0  296.2  2.0  0  0.00  33.  1002.   3 NAD-SFC NoSubs
 8  5 27 148 18   32.9  0.410  1.115  0.007 1507.  629.   -186.6  0.2160  0.52  0.30  4.10  291.0  15.0  294.9  2.0  0  0.00  44.  1003.   3 NAD-SFC NoSubs
 8  5 27 148 19  -31.4  0.472 -9.000 -9.000 -999.  778.    299.7  0.2160  0.52  0.53  5.10  282.0  15.0  291.2  2.0  0  0.00  55.  1004.   2 NAD-SFC NoSubs
 8  5 27 148 20  -50.2  0.467 -9.000 -9.000 -999.  767.    182.2  0.2160  0.52  1.00  5.10  274.0  15.0  288.6  2.0  0  0.00  61.  1005.   2 NAD-SFC NoSubs
 8  5 27 148 21  -46.7  0.443 -9.000 -9.000 -999.  708.    167.0  0.1750  0.52  1.00  5.10  269.0  15.0  287.0  2.0  0  0.00  67.  1006.   3 NAD-SFC NoSubs
 8  5 27 148 22  -39.4  0.372 -9.000 -9.000 -999.  549.    117.7  0.2160  0.52  1.00  4.10  273.0  15.0  285.9  2.0  0  0.00  72.  1006.   3 NAD-SFC NoSubs
 8  5 27 148 23  -20.5  0.218 -9.000 -9.000 -999.  262.     45.4  0.1750  0.52  1.00  2.60  262.0  15.0  285.2  2.0  0  0.00  75.  1007.   3 NAD-SFC NoSubs
 8  5 27 148 24   -1.4  0.079 -9.000 -9.000 -999.   77.     30.8  0.1950  0.52  1.00  0.50  236.0  15.0  284.8  2.0  0  0.00  76.  1008.   4 NAD-SFC NoSubs
 8  5 28 149  1   -3.5  0.095 -9.000 -9.000 -999.   71.     22.3  0.2130  0.52  1.00  1.00  116.0  15.0  284.4  2.0  0  0.00  78.  1008.   4 NAD-SFC NoSubs
 8  5 28 149  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  283.9  2.0  0  0.00  80.  1008.   4 NAD-SFC NoSubs
 8  5 28 149  3   -1.5  0.080 -9.000 -9.000 -999.   54.     31.1  0.2160  0.52  1.00  0.50  270.0  15.0  283.2  2.0  0  0.00  83.  1009.   4 NAD-SFC NoSubs
 8  5 28 149  4   -7.1  0.129 -9.000 -9.000 -999.  111.     26.9  0.2160  0.52  1.00  1.50  276.0  15.0  282.8  2.0  0  0.00  85.  1009.   4 NAD-SFC NoSubs
 8  5 28 149  5   -7.1  0.129 -9.000 -9.000 -999.  111.     26.9  0.2160  0.52  1.00  1.50  294.0  15.0  282.2  2.0  0  0.00  86.  1009.   4 NAD-SFC NoSubs
 8  5 28 149  6   -3.5  0.134 -9.000 -9.000 -999.  118.     62.0  0.2160  0.52  0.46  1.50  290.0  15.0  282.4  2.0  0  0.00  85.  1010.   4 NAD-SFC NoSubs
 8  5 28 149  7   39.0  0.143  0.599  0.006  198.  130.     -6.7  0.2160  0.52  0.28  1.00  295.0  15.0  284.2  2.0  0  0.00  76.  1010.   4 NAD-SFC NoSubs
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8	5	28	149	8	83.5	-9.000	-9.000	-9.000	350.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	285.9	2.0	0	0.00	67.	1010.	3	NAD-SFC	NoSubs
8	5	28	149	9	122.5	-9.000	-9.000	-9.000	572.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	287.4	2.0	0	0.00	63.	1010.	3	NAD-SFC	NoSubs
8	5	28	149	10	153.4	-9.000	-9.000	-9.000	754.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	289.2	2.0	0	0.00	58.	1009.	3	NAD-SFC	NoSubs
8	5	28	149	11	174.5	-9.000	-9.000	-9.000	900.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	291.0	2.0	0	0.00	51.	1009.	3	NAD-SFC	NoSubs
8	5	28	149	12	184.5	-9.000	-9.000	-9.000	1022.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	292.5	2.0	0	0.00	45.	1008.	3	NAD-SFC	NoSubs
8	5	28	149	13	184.1	-9.000	-9.000	-9.000	1121.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	293.9	2.0	0	0.00	40.	1007.	3	NAD-SFC	NoSubs
8	5	28	149	14	172.9	0.184	1.798	0.006	1208.	189.	-3.2	0.2930	0.52	0.19	1.00	344.0	15.0	294.9	2.0	0	0.00	37.	1006.	3	NAD-SFC	NoSubs
8	5	28	149	15	150.7	0.233	1.750	0.006	1277.	269.	-7.5	0.2930	0.52	0.19	1.50	354.0	15.0	295.5	2.0	0	0.00	35.	1006.	3	NAD-SFC	NoSubs
8	5	28	149	16	118.9	0.227	1.639	0.006	1331.	259.	-8.8	0.2930	0.52	0.20	1.50	352.0	15.0	295.9	2.0	0	0.00	34.	1005.	3	NAD-SFC	NoSubs
8	5	28	149	17	79.0	0.217	1.446	0.006	1372.	242.	-11.5	0.2930	0.52	0.22	1.50	353.0	15.0	296.0	2.0	0	0.00	34.	1005.	3	NAD-SFC	NoSubs
8	5	28	149	18	33.7	0.198	1.092	0.006	1389.	212.	-20.7	0.2930	0.52	0.29	1.50	331.0	15.0	295.8	2.0	0	0.00	41.	1006.	3	NAD-SFC	NoSubs
8	5	28	149	19	-20.9	0.377	-9.000	-9.000	-999.	557.	230.3	0.2160	0.52	0.52	4.10	288.0	15.0	294.2	2.0	0	0.00	48.	1006.	3	NAD-SFC	NoSubs
8	5	28	149	20	-46.1	0.443	-9.000	-9.000	-999.	707.	169.3	0.1750	0.52	1.00	5.10	266.0	15.0	290.8	2.0	0	0.00	66.	1007.	3	NAD-SFC	NoSubs
8	5	28	149	21	-57.0	0.543	-9.000	-9.000	-999.	959.	252.3	0.1750	0.52	1.00	6.20	266.0	15.0	288.5	2.0	0	0.00	74.	1007.	3	NAD-SFC	NoSubs
8	5	28	149	22	-46.7	0.443	-9.000	-9.000	-999.	717.	167.1	0.1750	0.52	1.00	5.10	269.0	15.0	287.2	2.0	0	0.00	80.	1008.	3	NAD-SFC	NoSubs
8	5	28	149	23	-42.9	0.420	-9.000	-9.000	-999.	655.	155.6	0.2160	0.52	1.00	4.60	275.0	15.0	286.2	2.0	0	0.00	84.	1008.	4	NAD-SFC	NoSubs
8	5	28	149	24	-26.9	0.264	-9.000	-9.000	-999.	343.	61.1	0.1750	0.52	1.00	3.10	267.0	15.0	285.5	2.0	0	0.00	86.	1008.	4	NAD-SFC	NoSubs
8	5	29	150	1	-6.4	0.122	-9.000	-9.000	-999.	121.	25.8	0.1750	0.52	1.00	1.50	256.0	15.0	285.2	2.0	0	0.00	87.	1009.	5	NAD-SFC	NoSubs
8	5	29	150	2	-1.2	0.073	-9.000	-9.000	-999.	49.	29.0	0.2130	0.52	1.00	0.50	98.0	15.0	284.9	2.0	0	0.00	88.	1009.	7	NAD-SFC	NoSubs
8	5	29	150	3	-0.8	0.062	-9.000	-9.000	-999.	37.	25.7	0.2090	0.52	1.00	0.50	70.0	15.0	284.8	2.0	0	0.00	89.	1009.	10	NAD-SFC	NoSubs
8	5	29	150	4	-0.9	0.065	-9.000	-9.000	-999.	40.	26.4	0.2930	0.52	1.00	0.50	349.0	15.0	284.9	2.0	0	0.00	89.	1009.	10	NAD-SFC	NoSubs
8	5	29	150	5	-0.9	0.064	-9.000	-9.000	-999.	39.	26.3	0.2720	0.52	1.00	0.50	311.0	15.0	285.1	2.0	0	0.00	88.	1009.	10	NAD-SFC	NoSubs
8	5	29	150	6	-0.6	0.054	-9.000	-9.000	-999.	30.	23.7	0.2720	0.52	0.46	0.50	313.0	15.0	285.2	2.0	0	0.00	88.	1009.	10	NAD-SFC	NoSubs
8	5	29	150	7	6.8	-9.000	-9.000	-9.000	77.	-999.	-99999.0	0.2235	0.52	0.27	0.00	0.0	15.0	285.5	2.0	0	0.00	87.	1009.	10	NAD-SFC	NoSubs
8	5	29	150	8	56.6	0.160	0.827	0.005	360.	154.	-6.5	0.2940	0.52	0.22	1.00	1.0	15.0	285.9	2.0	0	0.00	83.	1009.	8	NAD-SFC	NoSubs
8	5	29	150	9	121.1	-9.000	-9.000	-9.000	636.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	286.5	2.0	0	0.00	79.	1009.	4	NAD-SFC	NoSubs
8	5	29	150	10	153.1	-9.000	-9.000	-9.000	813.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	287.8	2.0	0	0.00	73.	1009.	3	NAD-SFC	NoSubs
8	5	29	150	11	174.3	-9.000	-9.000	-9.000	973.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	289.8	2.0	0	0.00	65.	1008.	3	NAD-SFC	NoSubs
8	5	29	150	12	184.3	-9.000	-9.000	-9.000	1087.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	291.4	2.0	0	0.00	59.	1007.	3	NAD-SFC	NoSubs
8	5	29	150	13	183.9	-9.000	-9.000	-9.000	1192.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	292.9	2.0	0	0.00	54.	1006.	3	NAD-SFC	NoSubs
8	5	29	150	14	172.9	-9.000	-9.000	-9.000	1283.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.2	2.0	0	0.00	48.	1005.	3	NAD-SFC	NoSubs
8	5	29	150	15	150.8	0.180	1.788	0.006	1361.	184.	-3.5	0.2930	0.52	0.19	1.00	336.0	15.0	295.0	2.0	0	0.00	45.	1005.	3	NAD-SFC	NoSubs
8	5	29	150	16	119.1	0.285	1.681	0.006	1431.	365.	-17.3	0.2930	0.52	0.20	2.10	347.0	15.0	295.8	2.0	0	0.00	43.	1004.	3	NAD-SFC	NoSubs
8	5	29	150	17	79.3	0.319	1.483	0.007	1474.	433.	-36.8	0.2930	0.52	0.22	2.60	346.0	15.0	295.8	2.0	0	0.00	44.	1004.	3	NAD-SFC	NoSubs
8	5	29	150	18	34.6	0.254	1.129	0.007	1492.	309.	-42.5	0.2930	0.52	0.29	2.10	356.0	15.0	295.5	2.0	0	0.00	51.	1004.	4	NAD-SFC	NoSubs
8	5	29	150	19	-11.7	0.257	-9.000	-9.000	-999.	313.	130.8	0.2940	0.52	0.52	2.60	15.0	15.0	295.0	2.0	0	0.00	53.	1005.	4	NAD-SFC	NoSubs
8	5	29	150	20	-16.1	0.201	-9.000	-9.000	-999.	217.	45.0	0.2940	0.52	1.00	2.10	12.0	15.0	294.0	2.0	0	0.00	56.	1005.	4	NAD-SFC	NoSubs
8	5	29	150	21	-3.7	0.099	-9.000	-9.000	-999.	80.	23.4	0.2720	0.52	1.00	1.00	322.0	15.0	293.2	2.0	0	0.00	58.	1005.	4	NAD-SFC	NoSubs
8	5	29	150	22	-27.8	0.278	-9.000	-9.000	-999.	353.	69.6	0.2160	0.52	1.00	3.10	290.0	15.0	291.8	2.0	0	0.00	65.	1005.	4	NAD-SFC	NoSubs
8	5	29	150	23	-33.4	0.374	-9.000	-9.000	-999.	548.	139.9	0.2160	0.52	1.00	4.10	278.0	15.0	289.9	2.0	0	0.00	75.	1005.	6	NAD-SFC	NoSubs
8	5	29	150	24	-30.9	0.374	-9.000	-9.000	-999.	550.	152.2	0.2160	0.52	1.00	4.10	293.0	15.0	289.4	2.0	0	0.00	78.	1005.	7	NAD-SFC	NoSubs
8	5	30	151	1	-33.0	0.399	-9.000	-9.000	-999.	605.	172.6	0.2720	0.52	1.00	4.10	303.0	15.0	288.9	2.0	0	0.00	79.	1005.	7	NAD-SFC	NoSubs
8	5	30	151	2	-26.1	0.349	-9.000	-9.000	-999.	497.	146.2	0.2720	0.52	1.00	3.60	322.0	15.0	287.8	2.0	0	0.00	83.	1006.	8	NAD-SFC	NoSubs
8	5	30	151	3	-16.9	0.307	-9.000	-9.000	-999.	410.	153.7	0.2930	0.52	1.00	3.10	332.0	15.0	287.2	2.0	0	0.00	85.	1006.	10	NAD-SFC	NoSubs
8	5	30	151	4	-14.1	0.256	-9.000	-9.000	-999.	312.	106.5	0.2930	0.52	1.00	2.60	341.0	15.0	286.9	2.0	0	0.00	84.	1006.	10	NAD-SFC	NoSubs
8	5	30	151	5	-11.3	0.205	-9.000	-9.000	-999.	223.	68.0	0.2930	0.52	1.00	2.10	344.0	15.0	286.8	2.0	0	0.00	85.	1006.	10	NAD-SFC	NoSubs
8	5	30	151	6	-1.3	0.150	-9.000	-9.000	-999.	140.	226.9	0.2930	0.52	0.46	1.50	337.0	15.0	286.5	2.0	0	0.00	84.	1007.	8	NAD-SFC	NoSubs
8	5	30	151	7	39.4	0.201	0.660	0.006	262.	217.	-18.6	0.2930	0.52	0.27	1.50	336.0	15.0	287.2	2.0	0	0.00	76.	1007.	5	NAD-SFC	NoSubs
8	5	30	151	8	84.0	0.110	0.979	0.005	401.	91.	-1.4	0.2930	0.52	0.22	0.50	339.0	15.0	288.6	2.0	0	0.00	71.	1007.	4	NAD-SFC	NoSubs
8	5	30	151	9	123.5	-9.000	-9.000	-9.000	610.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	290.2	2.0	0	0.00	65.	1007.	3	NAD-SFC	NoSubs
8	5	30	151	10	154.4	-9.000	-9.000	-9.000	790.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	291.9	2.0	0	0.00	58.	1006.	3	NAD-SFC	NoSubs
8	5	30	151	11	175.4	-9.000	-9.000	-9.000	952.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	293.2	2.0	0	0.00	53.	1006.	3	NAD-SFC	NoSubs
8	5	30	151	12	185.5	-9.000	-9.000	-9.000	1184.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.8	2.0	0	0.00	48.	1005.	3	NAD-SFC	NoSubs
8	5	30	151	13	185.2	-9.000	-9.000	-9.000	1361.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.0	2.0	0	0.00	44.	1004.	3	NAD-SFC	NoSubs
8	5	30	151	14	174.1	-9.000	-9.000	-9.000	1439.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.0	2.0	0	0.00	40.	1003.	3	NAD-SFC	NoSubs
8	5	30	151	15	152.0	0.118	1.855	0.009	1504.	97.	-1.0	0.2720	0.52	0.19	0.50	315.0	15.0	297.6	2.0	0	0.00	38.	1002.	3	NAD-SFC	NoSubs
8	5	30	151	16	120.3	0.176	1.735	0.010	1553.	177.	-4.0	0.2930	0.52	0.20	1.00	343.0	15.0	298.0	2.0	0	0.00	37.	1002.	3	NAD-SFC	NoSubs
8	5	30	151	17	80.5	0.274	1.528	0.010	1585.	344.	-22.8	0.2940	0.52	0.22	2.10	2.0	15.0	298.0	2.0	0	0.00	37.	1002.	3	NAD-SFC	NoSubs
8	5	30	151	18	35.2	0.255	1.163	0.010	1597.	309.	-41.9	0.2940	0.52	0.29	2.10	14.0	15.0	297.6	2.0	0	0.00	45.	1002.	3	NAD-SFC	NoSubs
8	5	30	151	19	-12.0	0.257	-9.000	-9.000	-999.	313.	126.1	0.2940	0.52	0.51	2.60	14.0	15.0	297.0	2.0	0	0.00	47.	1003.	3	NAD-SFC	NoSubs
8	5	30	151	20	-30.3	0.297	-9.000	-9.000	-999.	388.	77.2	0.2720	0.52	1.00	3.10	304.0	15.0	295.8	2.0	0	0.00	51.	1003.	3	NAD-SFC	NoSubs
8	5	30	151	21	-59.4	0.573	-9.000	-9.000	-999.	1042.	283.9	0.2160	0.52	1.00	6.20	271.0	15.0	291.2	2.0	0	0.00	71.	1004.	3	NAD-SFC	NoSubs
8	5	30	151	22	-54.8	0.525	-9.000	-9.000	-999.	916.	236.5	0.2160	0.52	1.00	5.70	275.0	15.0	289.2	2.0	0	0.00	75.	1004.	3	NAD-SFC	NoSubs
8	5	30	151	23	-41.7	0.398	-9.000	-9.000	-999.	616.	135.4	0.1750	0.52	1.00	4.60	257.0	15.0	288.4	2.0	0	0.00	78.	1005.	3	NAD-SFC	NoSubs
8	5	30	151	24	-32.4	0.308	-9.000	-9.000	-999.	416.	81.0	0.1750	0.52	1.00	3.60	267.0	15.0	287.6	2.0	0	0.00	81.	1005.	3	NAD-SFC	NoSubs
8	5	31	152	1	-7.2	0.129	-9.000	-9.000	-999.	144.	26.6	0.2160	0.52	1.00	1.50	274.0	15.0	287.0	2.0	0	0.00	82.	1005.	3	NAD-SFC	NoSubs
8	5	31	152	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	286.8	2.0	0	0.00	83.	1006.	4	NAD-SFC	NoSubs
8	5	31	152	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	286.2	2.0	0	0.00	84.	1006.	4	NAD-SFC	NoSubs
8	5	31	152	4	-3.5	0.096	-9.000	-9.000	-999.	71.	22.4	0.2160	0.52	1.00	1.00	287.0	15.0	285.9	2.0	0	0.00	84.	1007.	4	NAD-SFC	NoSubs
8	5	31	152	5	-7.1	0.129	-9.000	-9.000	-999.	111.	27.0	0.2160	0.52	1.00	1.50	295.0	15.0	285.5	2.0	0	0.00	84.	1007.	4	NAD-SFC	NoSubs
8	5	31	152	6	-3.8	0.205	-9.000	-9.000	-999.	223.	202.1	0.2720	0.52	0.46	2.10	303.0	15.0	285.8	2.0	0	0.00	82.	1008.	4	NAD-SFC	NoSubs
8	5	31	152	7	40.0	0.198	0.582	0.006	177.	212.	-17.5	0.2720	0.52	0.27	1.50	302.0	15.0	286.5	2.0	0	0.00	79.	1008.	4	NAD-SFC	NoSubs
8	5	31	152	8	84.3	0.110	0.945	0.007	360.	91.	-1.4	0.2930	0.52	0.22	0.50	343.0	15.0	287.0	2.0	0	0.00	76.	1008.	3	NAD-SFC	NoSubs
8	5	31	152	9	123.0	0.108	1.231	0.008	545.	85.	-1.0	0.2130	0.52	0.20	0.50	112.0	15.0	287.6	2.0	0	0.00	75.	1008.	3	NAD-SFC	NoSubs
8	5	31	152	10	153.8	-9.000	-9.000	-9.000	699.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	289.5	2.0	0	0.00	71.	1008.	2	NAD-SFC	NoSubs
8	5	31	152	11	175.3	-9.000	-9.000	-9.000	815.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	291.9	2.0	0	0.00	64.	1007.	2	NAD-SFC	NoSubs
8	5	31	152	12	185.7	-9.000	-9.000	-9.000	923.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.0	2.0	0	0.00	56.	1006.	2	NAD-SFC	NoSubs

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 8  5 31 152 13   185.5 -9.000 -9.000 -9.000 1028. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 295.8  2.0    0  0.00   49. 1005.     2 NAD-SFC NoSubs
 8  5 31 152 14   174.4 -9.000 -9.000 -9.000 1125. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 296.9  2.0    0  0.00   44. 1004.     2 NAD-SFC NoSubs
 8  5 31 152 15   152.2  0.181  1.722  0.008 1203.  184.     -3.5 0.2930  0.52  0.19  1.00  355.0  15.0 297.8  2.0    0  0.00   40. 1003.     2 NAD-SFC NoSubs
 8  5 31 152 16   120.3 -9.000 -9.000 -9.000 1261. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 298.2  2.0    0  0.00   39. 1002.     2 NAD-SFC NoSubs
 8  5 31 152 17    81.0  0.366  1.432  0.008 1298.  532.    -54.2 0.2940  0.52  0.22  3.10    8.0  15.0 298.2  2.0    0  0.00   41. 1002.     3 NAD-SFC NoSubs
 8  5 31 152 18    35.7  0.301  1.094  0.008 1313.  398.    -68.0 0.2940  0.52  0.29  2.60   11.0  15.0 297.6  2.0    0  0.00   52. 1002.     3 NAD-SFC NoSubs
 8  5 31 152 19   -16.3  0.361 -9.000 -9.000 -999.  520.    257.3 0.2940  0.52  0.51  3.60    8.0  15.0 296.8  2.0    0  0.00   56. 1003.     3 NAD-SFC NoSubs
 8  5 31 152 20   -36.2  0.355 -9.000 -9.000 -999.  507.    110.2 0.2930  0.52  1.00  3.60  337.0  15.0 295.5  2.0    0  0.00   60. 1003.     3 NAD-SFC NoSubs
 8  5 31 152 21   -37.0  0.373 -9.000 -9.000 -999.  546.    125.6 0.2160  0.52  1.00  4.10  290.0  15.0 293.2  2.0    0  0.00   69. 1004.     4 NAD-SFC NoSubs
 8  5 31 152 22   -35.2  0.353 -9.000 -9.000 -999.  504.    112.1 0.1750  0.52  1.00  4.10  256.0  15.0 291.5  2.0    0  0.00   74. 1004.     4 NAD-SFC NoSubs
 8  5 31 152 23   -32.6  0.326 -9.000 -9.000 -999.  447.     94.9 0.2160  0.52  1.00  3.60  284.0  15.0 290.5  2.0    0  0.00   76. 1005.     4 NAD-SFC NoSubs
 8  5 31 152 24   -34.9  0.347 -9.000 -9.000 -999.  491.    107.5 0.2720  0.52  1.00  3.60  314.0  15.0 289.8  2.0    0  0.00   79. 1005.     4 NAD-SFC NoSubs
 8  6  1 153  1   -30.6  0.303 -9.000 -9.000 -999.  402.     81.9 0.2930  0.52  1.00  3.10  331.0  15.0 289.0  2.0    0  0.00   82. 1005.     4 NAD-SFC NoSubs
 8  6  1 153  2   -30.6  0.303 -9.000 -9.000 -999.  401.     81.7 0.2930  0.52  1.00  3.10  338.0  15.0 288.2  2.0    0  0.00   84. 1005.     4 NAD-SFC NoSubs
 8  6  1 153  3   -25.3  0.252 -9.000 -9.000 -999.  305.     56.7 0.2930  0.52  1.00  2.60  350.0  15.0 287.8  2.0    0  0.00   85. 1005.     4 NAD-SFC NoSubs
 8  6  1 153  4   -16.2  0.200 -9.000 -9.000 -999.  216.     44.3 0.2930  0.52  1.00  2.10  352.0  15.0 287.2  2.0    0  0.00   86. 1006.     4 NAD-SFC NoSubs
 8  6  1 153  5    -8.1  0.140 -9.000 -9.000 -999.  126.     30.3 0.2940  0.52  1.00  1.50    5.0  15.0 286.8  2.0    0  0.00   87. 1006.     4 NAD-SFC NoSubs
 8  6  1 153  6    -1.5  0.097 -9.000 -9.000 -999.   72.     54.0 0.2930  0.52  0.46  1.00  360.0  15.0 286.6  2.0    0  0.00   87. 1007.     4 NAD-SFC NoSubs
 8  6  1 153  7    40.1  0.257  0.666  0.007  264.  313.    -38.1 0.2930  0.52  0.27  2.10  353.0  15.0 287.8  2.0    0  0.00   75. 1007.     3 NAD-SFC NoSubs
 8  6  1 153  8    84.9  0.168  0.987  0.007  406.  168.     -5.0 0.2930  0.52  0.22  1.00  332.0  15.0 289.0  2.0    0  0.00   70. 1007.     3 NAD-SFC NoSubs
 8  6  1 153  9   123.8 -9.000 -9.000 -9.000  543. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 290.5  2.0    0  0.00   65. 1007.     3 NAD-SFC NoSubs
 8  6  1 153 10   154.7 -9.000 -9.000 -9.000  684. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 292.2  2.0    0  0.00   59. 1007.     3 NAD-SFC NoSubs
 8  6  1 153 11   175.8 -9.000 -9.000 -9.000  848. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 293.8  2.0    0  0.00   55. 1006.     3 NAD-SFC NoSubs
 8  6  1 153 12   185.9  0.115  1.723  0.009  988.   93.     -1.0 0.2160  0.52  0.19  0.50  290.0  15.0 295.2  2.0    0  0.00   51. 1005.     3 NAD-SFC NoSubs
 8  6  1 153 13   185.7  0.182  1.778  0.010 1086.  187.     -2.9 0.2720  0.52  0.19  1.00  318.0  15.0 296.5  2.0    0  0.00   47. 1004.     3 NAD-SFC NoSubs
 8  6  1 153 14   174.7  0.237  1.786  0.010 1171.  277.     -6.9 0.2930  0.52  0.19  1.50  341.0  15.0 297.4  2.0    0  0.00   44. 1004.     3 NAD-SFC NoSubs
 8  6  1 153 15   152.6  0.385  1.742  0.011 1241.  573.    -33.4 0.2930  0.52  0.19  3.10  346.0  15.0 297.9  2.0    0  0.00   43. 1003.     3 NAD-SFC NoSubs
 8  6  1 153 16   120.9  0.469  1.634  0.011 1292.  771.    -76.5 0.2940  0.52  0.20  4.10    2.0  15.0 298.0  2.0    0  0.00   42. 1003.     3 NAD-SFC NoSubs
 8  6  1 153 17    81.1  0.458  1.443  0.011 1325.  744.   -105.8 0.2930  0.52  0.22  4.10  357.0  15.0 297.8  2.0    0  0.00   43. 1003.     3 NAD-SFC NoSubs
 8  6  1 153 18    35.9  0.347  1.103  0.011 1338.  499.   -104.1 0.2940  0.52  0.29  3.10    4.0  15.0 297.1  2.0    0  0.00   53. 1003.     3 NAD-SFC NoSubs
 8  6  1 153 19   -18.6  0.413 -9.000 -9.000 -999.  637.    339.5 0.2930  0.52  0.51  4.10  353.0  15.0 295.8  2.0    0  0.00   57. 1003.     3 NAD-SFC NoSubs
 8  6  1 153 20   -41.7  0.406 -9.000 -9.000 -999.  621.    143.8 0.2930  0.52  1.00  4.10  344.0  15.0 294.0  2.0    0  0.00   62. 1004.     3 NAD-SFC NoSubs
 8  6  1 153 21   -36.5  0.355 -9.000 -9.000 -999.  509.    109.2 0.2930  0.52  1.00  3.60  335.0  15.0 292.9  2.0    0  0.00   65. 1004.     3 NAD-SFC NoSubs
 8  6  1 153 22   -30.6  0.297 -9.000 -9.000 -999.  390.     76.3 0.2720  0.52  1.00  3.10  321.0  15.0 292.2  2.0    0  0.00   65. 1004.     3 NAD-SFC NoSubs
 8  6  1 153 23   -36.0  0.347 -9.000 -9.000 -999.  490.    103.9 0.2720  0.52  1.00  3.60  305.0  15.0 291.1  2.0    0  0.00   69. 1005.     3 NAD-SFC NoSubs
 8  6  1 153 24   -36.2  0.347 -9.000 -9.000 -999.  490.    103.3 0.2720  0.52  1.00  3.60  314.0  15.0 289.5  2.0    0  0.00   72. 1005.     3 NAD-SFC NoSubs
 8  6  2 154  1   -31.8  0.303 -9.000 -9.000 -999.  402.     78.6 0.2930  0.52  1.00  3.10  338.0  15.0 288.4  2.0    0  0.00   72. 1005.     3 NAD-SFC NoSubs
 8  6  2 154  2   -25.7  0.252 -9.000 -9.000 -999.  304.     55.5 0.2930  0.52  1.00  2.60  347.0  15.0 287.8  2.0    0  0.00   71. 1005.     3 NAD-SFC NoSubs
 8  6  2 154  3   -16.5  0.200 -9.000 -9.000 -999.  215.     43.3 0.2930  0.52  1.00  2.10  353.0  15.0 287.2  2.0    0  0.00   72. 1005.     3 NAD-SFC NoSubs
 8  6  2 154  4    -4.0  0.102 -9.000 -9.000 -999.   83.     23.6 0.2930  0.52  1.00  1.00  352.0  15.0 286.8  2.0    0  0.00   73. 1005.     3 NAD-SFC NoSubs
 8  6  2 154  5    -1.6  0.084 -9.000 -9.000 -999.   58.     31.9 0.2930  0.52  1.00  0.50  355.0  15.0 286.2  2.0    0  0.00   74. 1005.     3 NAD-SFC NoSubs
 8  6  2 154  6    19.3 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  0.45  0.00    0.0  15.0 286.1  2.0    0  0.00   75. 1006.     3 NAD-SFC NoSubs
 8  6  2 154  7    40.2  0.100  0.683  0.008  285.   75.     -2.2 0.2930  0.52  0.27  0.50  353.0  15.0 287.6  2.0    0  0.00   65. 1006.     3 NAD-SFC NoSubs
 8  6  2 154  8    85.0 -9.000 -9.000 -9.000  412. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0 289.1  2.0    0  0.00   60. 1006.     3 NAD-SFC NoSubs
 8  6  2 154  9   124.0 -9.000 -9.000 -9.000  548. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 290.8  2.0    0  0.00   54. 1006.     3 NAD-SFC NoSubs
 8  6  2 154 10   154.9 -9.000 -9.000 -9.000  684. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 292.5  2.0    0  0.00   48. 1006.     2 NAD-SFC NoSubs
 8  6  2 154 11   176.2 -9.000 -9.000 -9.000  822. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 294.0  2.0    0  0.00   44. 1005.     2 NAD-SFC NoSubs
 8  6  2 154 12   186.4 -9.000 -9.000 -9.000  947. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 295.4  2.0    0  0.00   41. 1004.     2 NAD-SFC NoSubs
 8  6  2 154 13   185.8  0.121  1.786  0.008 1099.  101.     -1.0 0.2720  0.52  0.19  0.50  328.0  15.0 296.6  2.0    0  0.00   37. 1003.     3 NAD-SFC NoSubs
 8  6  2 154 14   175.0  0.237  1.819  0.009 1233.  278.     -6.8 0.2930  0.52  0.19  1.50  355.0  15.0 297.5  2.0    0  0.00   35. 1003.     2 NAD-SFC NoSubs
 8  6  2 154 15   152.9  0.339  1.788  0.010 1340.  474.    -22.8 0.2930  0.52  0.19  2.60  355.0  15.0 298.1  2.0    0  0.00   34. 1002.     2 NAD-SFC NoSubs
 8  6  2 154 16   120.9  0.424  1.669  0.010 1377.  662.    -56.2 0.2940  0.52  0.20  3.60    5.0  15.0 298.2  2.0    0  0.00   35. 1002.     2 NAD-SFC NoSubs
 8  6  2 154 17    80.9 -9.000 -9.000 -9.000 1401. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0 298.0  2.0    0  0.00   38. 1002.     2 NAD-SFC NoSubs
 8  6  2 154 18    35.2 -9.000 -9.000 -9.000 1410. -999. -99999.0 0.2235  0.52  0.29  0.00    0.0  15.0 297.2  2.0    0  0.00   49. 1002.     2 NAD-SFC NoSubs
 8  6  2 154 19   -15.2  0.361 -9.000 -9.000 -999.  521.    277.6 0.2930  0.52  0.50  3.60  348.0  15.0 296.0  2.0    0  0.00   53. 1002.     3 NAD-SFC NoSubs
 8  6  2 154 20   -41.5  0.406 -9.000 -9.000 -999.  620.    144.0 0.2930  0.52  1.00  4.10  339.0  15.0 294.5  2.0    0  0.00   56. 1002.     3 NAD-SFC NoSubs
 8  6  2 154 21   -35.6  0.347 -9.000 -9.000 -999.  493.    104.9 0.2720  0.52  1.00  3.60  316.0  15.0 293.8  2.0    0  0.00   57. 1002.     3 NAD-SFC NoSubs
 8  6  2 154 22   -33.5  0.325 -9.000 -9.000 -999.  446.     91.9 0.2160  0.52  1.00  3.60  285.0  15.0 292.4  2.0    0  0.00   61. 1002.     3 NAD-SFC NoSubs
 8  6  2 154 23   -33.7  0.325 -9.000 -9.000 -999.  445.     91.2 0.2160  0.52  1.00  3.60  278.0  15.0 290.4  2.0    0  0.00   68. 1002.     3 NAD-SFC NoSubs
 8  6  2 154 24   -36.2  0.347 -9.000 -9.000 -999.  490.    103.2 0.2720  0.52  1.00  3.60  307.0  15.0 289.2  2.0    0  0.00   71. 1003.     3 NAD-SFC NoSubs
 8  6  3 155  1   -31.0  0.297 -9.000 -9.000 -999.  389.     75.2 0.2720  0.52  1.00  3.10  329.0  15.0 288.4  2.0    0  0.00   73. 1003.     3 NAD-SFC NoSubs
 8  6  3 155  2   -16.4  0.200 -9.000 -9.000 -999.  219.     43.4 0.2930  0.52  1.00  2.10  339.0  15.0 288.0  2.0    0  0.00   73. 1003.     3 NAD-SFC NoSubs
 8  6  3 155  3  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00    0.0  15.0 287.6  2.0    0  0.00   73. 1003.     3 NAD-SFC NoSubs
 8  6  3 155  4    -1.6  0.084 -9.000 -9.000 -999.   58.     31.9 0.2940  0.52  1.00  0.50   17.0  15.0 287.2  2.0    0  0.00   74. 1003.     3 NAD-SFC NoSubs
 8  6  3 155  5    -1.6  0.082 -9.000 -9.000 -999.   56.     31.6 0.2470  0.52  1.00  0.50   30.0  15.0 286.9  2.0    0  0.00   76. 1003.     3 NAD-SFC NoSubs
 8  6  3 155  6    -0.4  0.047 -9.000 -9.000 -999.   25.     23.1 0.2470  0.52  0.45  0.50   39.0  15.0 286.8  2.0    0  0.00   77. 1004.     3 NAD-SFC NoSubs
 8  6  3 155  7    40.4  0.202  0.673  0.007  270.  218.    -18.3 0.2940  0.52  0.27  1.50    6.0  15.0 288.1  2.0    0  0.00   70. 1004.     3 NAD-SFC NoSubs
 8  6  3 155  8    84.5  0.110  1.015  0.008  442.   91.     -1.4 0.2930  0.52  0.22  0.50  340.0  15.0 289.4  2.0    0  0.00   66. 1004.     2 NAD-SFC NoSubs
 8  6  3 155  9   123.8 -9.000 -9.000 -9.000  577. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 290.9  2.0    0  0.00   61. 1003.     2 NAD-SFC NoSubs
 8  6  3 155 10   155.0 -9.000 -9.000 -9.000  703. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 292.8  2.0    0  0.00   55. 1003.     2 NAD-SFC NoSubs
 8  6  3 155 11   176.3  0.181  1.589  0.008  814.  185.     -3.0 0.2720  0.52  0.19  1.00  319.0  15.0 294.2  2.0    0  0.00   49. 1002.     2 NAD-SFC NoSubs
 8  6  3 155 12   186.6  0.182  1.686  0.008  918.  187.     -2.9 0.2720  0.52  0.19  1.00  319.0  15.0 295.8  2.0    0  0.00   45. 1001.     2 NAD-SFC NoSubs
 8  6  3 155 13   186.4  0.298  1.744  0.008 1017.  390.    -12.7 0.2930  0.52  0.19  2.10  330.0  15.0 297.0  2.0    0  0.00   42. 1000.     2 NAD-SFC NoSubs
 8  6  3 155 14   175.3  0.390  1.759  0.009 1108.  584.    -30.1 0.2930  0.52  0.19  3.10  345.0  15.0 298.0  2.0    0  0.00   40.  999.     3 NAD-SFC NoSubs
 8  6  3 155 15   153.3  0.477  1.719  0.009 1181.  790.    -63.0 0.2930  0.52  0.19  4.10  352.0  15.0 298.5  2.0    0  0.00   40.  998.     3 NAD-SFC NoSubs
 8  6  3 155 16   121.9  0.562  1.618  0.009 1237. 1010.   -129.5 0.2930  0.52  0.20  5.10  349.0  15.0 299.1  2.0    0  0.00   40.  997.     3 NAD-SFC NoSubs
 8  6  3 155 17    82.2  0.505  1.432  0.009 1272.  866.   -139.3 0.2930  0.52  0.22  4.60  342.0  15.0 298.8  2.0    0  0.00   48.  997.     3 NAD-SFC NoSubs
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 8  6  3 155 18   37.0  0.394  1.102  0.009 1286.  604.   -147.1  0.2930  0.52  0.29   3.60  343.0  15.0  297.9   2.0    0   0.00   59.   997.     3 NAD-SFC NoSubs
 8  6  3 155 19  -16.3  0.414 -9.000 -9.000 -999.  639.    387.1  0.2930  0.52  0.50   4.10  337.0  15.0  296.2   2.0    0   0.00   67.   997.     3 NAD-SFC NoSubs
 8  6  3 155 20  -44.9  0.458 -9.000 -9.000 -999.  743.    190.3  0.2930  0.52  1.00   4.60  340.0  15.0  294.6   2.0    0   0.00   74.   998.     4 NAD-SFC NoSubs
 8  6  3 155 21  -40.0  0.406 -9.000 -9.000 -999.  624.    149.0  0.2930  0.52  1.00   4.10  339.0  15.0  293.2   2.0    0   0.00   79.   998.     4 NAD-SFC NoSubs
 8  6  3 155 22  -38.2  0.407 -9.000 -9.000 -999.  622.    156.6  0.2930  0.52  1.00   4.10  335.0  15.0  292.4   2.0    0   0.00   82.   998.     5 NAD-SFC NoSubs
 8  6  3 155 23  -33.5  0.355 -9.000 -9.000 -999.  510.    119.1  0.2930  0.52  1.00   3.60  332.0  15.0  291.6   2.0    0   0.00   84.   998.     5 NAD-SFC NoSubs
 8  6  3 155 24  -39.5  0.397 -9.000 -9.000 -999.  601.    141.4  0.2720  0.52  1.00   4.10  325.0  15.0  290.8   2.0    0   0.00   88.   998.     4 NAD-SFC NoSubs
 8  6  4 156  1  -37.7  0.398 -9.000 -9.000 -999.  602.    148.4  0.2720  0.52  1.00   4.10  319.0  15.0  289.8   2.0    0   0.00   89.   998.     5 NAD-SFC NoSubs
 8  6  4 156  2  -26.5  0.298 -9.000 -9.000 -999.  396.     88.4  0.2720  0.52  1.00   3.10  319.0  15.0  288.9   2.0    0   0.00   89.   998.     6 NAD-SFC NoSubs
 8  6  4 156  3  -20.4  0.248 -9.000 -9.000 -999.  297.     66.5  0.2720  0.52  1.00   2.60  318.0  15.0  288.4   2.0    0   0.00   89.   998.     7 NAD-SFC NoSubs
 8  6  4 156  4  -13.5  0.198 -9.000 -9.000 -999.  212.     51.3  0.2720  0.52  1.00   2.10  307.0  15.0  288.1   2.0    0   0.00   89.   999.     8 NAD-SFC NoSubs
 8  6  4 156  5   -6.7  0.138 -9.000 -9.000 -999.  123.     34.7  0.2720  0.52  1.00   1.50  314.0  15.0  287.8   2.0    0   0.00   88.   999.     8 NAD-SFC NoSubs
 8  6  4 156  6   -0.1  0.317 -9.000 -9.000 -999.  427.   8888.0  0.2720  0.52  0.45   3.10  328.0  15.0  287.8   2.0    0   0.00   85.   999.     6 NAD-SFC NoSubs
 8  6  4 156  7   41.0  0.490  0.719  0.005  323.  824.   -255.7  0.2930  0.52  0.27   4.60  345.0  15.0  288.5   2.0    0   0.00   74.   999.     4 NAD-SFC NoSubs
 8  6  4 156  8   85.3  0.459  1.034  0.006  462.  748.   -101.2  0.2930  0.52  0.21   4.10  342.0  15.0  289.5   2.0    0   0.00   67.   999.     3 NAD-SFC NoSubs
 8  6  4 156  9  124.1  0.424  1.261  0.006  576.  665.    -54.9  0.2930  0.52  0.20   3.60  338.0  15.0  290.8   2.0    0   0.00   61.   999.     3 NAD-SFC NoSubs
 8  6  4 156 10  154.9  0.477  1.450  0.005  702.  791.    -62.5  0.2930  0.52  0.19   4.10  334.0  15.0  292.1   2.0    0   0.00   55.   998.     3 NAD-SFC NoSubs
 8  6  4 156 11  175.9  0.574  1.606  0.006  840. 1041.    -95.5  0.2930  0.52  0.19   5.10  344.0  15.0  293.2   2.0    0   0.00   48.   998.     3 NAD-SFC NoSubs
 8  6  4 156 12  185.9  0.621  1.715  0.008  966. 1171.   -114.3  0.2720  0.52  0.19   5.70  327.0  15.0  294.2   2.0    0   0.00   42.   997.     3 NAD-SFC NoSubs
 8  6  4 156 13  185.5  0.678  1.810  0.009 1139. 1338.   -149.3  0.2930  0.52  0.19   6.20  345.0  15.0  295.0   2.0    0   0.00   38.   996.     3 NAD-SFC NoSubs
 8  6  4 156 14  174.7  0.770  1.847  0.009 1283. 1618.   -232.4  0.2930  0.52  0.19   7.20  345.0  15.0  295.8   2.0    0   0.00   35.   996.     2 NAD-SFC NoSubs
 8  6  4 156 15  152.5  0.814  1.803  0.008 1366. 1760.   -314.2  0.2930  0.52  0.19   7.70  334.0  15.0  296.1   2.0    0   0.00   32.   995.     2 NAD-SFC NoSubs
 8  6  4 156 16  120.7  0.761  1.684  0.009 1406. 1600.   -323.7  0.2930  0.52  0.20   7.20  335.0  15.0  296.2   2.0    0   0.00   31.   995.     2 NAD-SFC NoSubs
 8  6  4 156 17   80.7  0.552  1.481  0.009 1431. 1035.   -184.5  0.2930  0.52  0.22   5.10  331.0  15.0  295.8   2.0    0   0.00   39.   995.     2 NAD-SFC NoSubs
 8  6  4 156 18   35.1  0.386  1.125  0.009 1441.  608.   -146.0  0.2720  0.52  0.29   3.60  325.0  15.0  294.9   2.0    0   0.00   46.   995.     2 NAD-SFC NoSubs
 8  6  4 156 19  -12.0  0.251 -9.000 -9.000 -999.  318.    116.7  0.2720  0.52  0.50   2.60  319.0  15.0  294.4   2.0    0   0.00   45.   995.     2 NAD-SFC NoSubs
 8  6  4 156 20   -1.5  0.081 -9.000 -9.000 -999.   97.     31.3  0.2160  0.52  1.00   0.50  279.0  15.0  293.5   2.0    0   0.00   45.   996.     2 NAD-SFC NoSubs
 8  6  4 156 21   -3.6  0.096 -9.000 -9.000 -999.   72.     22.4  0.2130  0.52  1.00   1.00  119.0  15.0  292.6   2.0    0   0.00   47.   996.     2 NAD-SFC NoSubs
 8  6  4 156 22   -1.6  0.082 -9.000 -9.000 -999.   57.     31.7  0.2470  0.52  1.00   0.50   59.0  15.0  292.2   2.0    0   0.00   46.   997.     2 NAD-SFC NoSubs
 8  6  4 156 23   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.2160  0.52  1.00   0.50  283.0  15.0  291.8   2.0    0   0.00   46.   997.     2 NAD-SFC NoSubs
 8  6  4 156 24  -32.6  0.308 -9.000 -9.000 -999.  410.     79.7  0.1750  0.52  1.00   3.60  240.0  15.0  290.4   2.0    0   0.00   49.   997.     2 NAD-SFC NoSubs
 8  6  5 157  1  -39.7  0.372 -9.000 -9.000 -999.  545.    115.7  0.2160  0.52  1.00   4.10  275.0  15.0  288.6   2.0    0   0.00   57.   997.     2 NAD-SFC NoSubs
 8  6  5 157  2  -34.8  0.325 -9.000 -9.000 -999.  446.     87.7  0.2160  0.52  1.00   3.60  289.0  15.0  287.2   2.0    0   0.00   64.   998.     2 NAD-SFC NoSubs
 8  6  5 157  3  -14.4  0.183 -9.000 -9.000 -999.  201.     37.8  0.2160  0.52  1.00   2.10  299.0  15.0  286.6   2.0    0   0.00   66.   998.     2 NAD-SFC NoSubs
 8  6  5 157  4   -3.6  0.097 -9.000 -9.000 -999.   77.     22.4  0.2160  0.52  1.00   1.00  290.0  15.0  286.2   2.0    0   0.00   67.   999.     2 NAD-SFC NoSubs
 8  6  5 157  5   -7.3  0.129 -9.000 -9.000 -999.  111.     26.3  0.2160  0.52  1.00   1.50  290.0  15.0  285.8   2.0    0   0.00   67.   999.     2 NAD-SFC NoSubs
 8  6  5 157  6   -4.0  0.134 -9.000 -9.000 -999.  117.     53.9  0.2160  0.52  0.45   1.50  295.0  15.0  285.8   2.0    0   0.00   67.  1000.     2 NAD-SFC NoSubs
 8  6  5 157  7   39.7  0.442  0.532  0.005  135.  706.   -194.5  0.2930  0.52  0.27   4.10  346.0  15.0  288.5   2.0    0   0.00   52.  1000.     2 NAD-SFC NoSubs
 8  6  5 157  8   85.0  0.413  0.875  0.005  281.  638.    -73.9  0.2930  0.52  0.21   3.60  355.0  15.0  290.5   2.0    0   0.00   40.  1001.     2 NAD-SFC NoSubs
 8  6  5 157  9  124.2  0.286  1.111  0.006  394.  377.    -16.7  0.2930  0.52  0.20   2.10  353.0  15.0  291.9   2.0    0   0.00   37.  1001.     2 NAD-SFC NoSubs
 8  6  5 157 10  155.3  0.181  1.365  0.005  586.  191.     -3.4  0.2930  0.52  0.19   1.00  347.0  15.0  293.2   2.0    0   0.00   34.  1001.     2 NAD-SFC NoSubs
 8  6  5 157 11  176.6  0.120  1.565  0.005  777.  101.     -1.0  0.2720  0.52  0.19   0.50  307.0  15.0  294.5   2.0    0   0.00   32.  1001.     2 NAD-SFC NoSubs
 8  6  5 157 12  186.8  0.121  1.711  0.005  957.  101.     -1.0  0.2720  0.52  0.19   0.50  308.0  15.0  295.8   2.0    0   0.00   30.  1000.     2 NAD-SFC NoSubs
 8  6  5 157 13  186.6  0.185  1.804  0.005 1123.  192.     -3.0  0.2930  0.52  0.19   1.00  331.0  15.0  297.0   2.0    0   0.00   27.   999.     2 NAD-SFC NoSubs
 8  6  5 157 14  175.6  0.296  1.837  0.005 1259.  387.    -13.2  0.2930  0.52  0.19   2.10  336.0  15.0  297.8   2.0    0   0.00   26.   999.     2 NAD-SFC NoSubs
 8  6  5 157 15  153.7  0.431  1.807  0.005 1369.  680.    -46.5  0.2930  0.52  0.19   3.60  336.0  15.0  298.4   2.0    0   0.00   27.   998.     2 NAD-SFC NoSubs
 8  6  5 157 16  121.9  0.516  1.705  0.005 1449.  888.   -100.1  0.2930  0.52  0.20   4.60  348.0  15.0  298.6   2.0    0   0.00   28.   998.     2 NAD-SFC NoSubs
 8  6  5 157 17   82.0  0.458  1.511  0.005 1499.  748.   -104.5  0.2930  0.52  0.22   4.10  340.0  15.0  298.2   2.0    0   0.00   35.   998.     2 NAD-SFC NoSubs
 8  6  5 157 18   36.5  0.347  1.159  0.005 1519.  500.   -102.0  0.2930  0.52  0.29   3.10  336.0  15.0  297.6   2.0    0   0.00   44.   998.     2 NAD-SFC NoSubs
 8  6  5 157 19  -15.1  0.361 -9.000 -9.000 -999.  521.    277.3  0.2930  0.52  0.49   3.60  333.0  15.0  296.9   2.0    0   0.00   45.   999.     2 NAD-SFC NoSubs
 8  6  5 157 20  -36.1  0.347 -9.000 -9.000 -999.  490.    102.8  0.2720  0.52  1.00   3.60  308.0  15.0  295.8   2.0    0   0.00   48.   999.     2 NAD-SFC NoSubs
 8  6  5 157 21  -31.0  0.297 -9.000 -9.000 -999.  389.     74.8  0.2720  0.52  1.00   3.10  305.0  15.0  294.5   2.0    0   0.00   51.   999.     2 NAD-SFC NoSubs
 8  6  5 157 22  -15.8  0.195 -9.000 -9.000 -999.  212.     41.9  0.2720  0.52  1.00   2.10  304.0  15.0  293.5   2.0    0   0.00   53.   999.     2 NAD-SFC NoSubs
 8  6  5 157 23   -3.9  0.101 -9.000 -9.000 -999.   81.     23.3  0.2720  0.52  1.00   1.00  300.0  15.0  292.5   2.0    0   0.00   56.   999.     2 NAD-SFC NoSubs
 8  6  5 157 24   -3.9  0.101 -9.000 -9.000 -999.   77.     23.3  0.2720  0.52  1.00   1.00  319.0  15.0  291.4   2.0    0   0.00   60.   999.     2 NAD-SFC NoSubs
 8  6  6 158  1   -8.3  0.140 -9.000 -9.000 -999.  125.     29.5  0.2930  0.52  1.00   1.50  349.0  15.0  290.5   2.0    0   0.00   63.   999.     2 NAD-SFC NoSubs
 8  6  6 158  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  289.9   2.0    0   0.00   67.  1000.     2 NAD-SFC NoSubs
 8  6  6 158  3   -4.0  0.102 -9.000 -9.000 -999.   79.     23.7  0.2940  0.52  1.00   1.00    9.0  15.0  289.2   2.0    0   0.00   72.  1000.     2 NAD-SFC NoSubs
 8  6  6 158  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  288.8   2.0    0   0.00   75.  1000.     2 NAD-SFC NoSubs
 8  6  6 158  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  288.1   2.0    0   0.00   79.  1000.     2 NAD-SFC NoSubs
 8  6  6 158  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.45   0.00    0.0  15.0  288.0   2.0    0   0.00   81.  1001.     3 NAD-SFC NoSubs
 8  6  6 158  7   41.1  0.258  0.634  0.007  221.  314.    -37.1  0.2930  0.52  0.27   2.10  349.0  15.0  289.5   2.0    0   0.00   76.  1001.     3 NAD-SFC NoSubs
 8  6  6 158  8   85.8  0.168  0.931  0.007  336.  168.     -4.9  0.2930  0.52  0.21   1.00  338.0  15.0  290.9   2.0    0   0.00   71.  1001.     3 NAD-SFC NoSubs
 8  6  6 158  9  124.7  0.116  1.196  0.007  489.   95.     -1.1  0.2930  0.52  0.20   0.50  333.0  15.0  292.4   2.0    0   0.00   66.  1000.     3 NAD-SFC NoSubs
 8  6  6 158 10  155.6  0.178  1.419  0.007  656.  181.     -3.2  0.2720  0.52  0.19   1.00  324.0  15.0  294.0   2.0    0   0.00   60.  1000.     3 NAD-SFC NoSubs
 8  6  6 158 11  176.7  0.234  1.597  0.008  822.  272.     -6.5  0.2720  0.52  0.19   1.50  317.0  15.0  295.2   2.0    0   0.00   56.   999.     3 NAD-SFC NoSubs
 8  6  6 158 12  186.9  0.340  1.718  0.009  969.  476.    -18.8  0.2720  0.52  0.19   2.60  325.0  15.0  296.5   2.0    0   0.00   53.   999.     3 NAD-SFC NoSubs
 8  6  6 158 13  186.7  0.385  1.773  0.009 1065.  574.    -27.3  0.2720  0.52  0.19   3.10  326.0  15.0  297.5   2.0    0   0.00   48.   998.     3 NAD-SFC NoSubs
 8  6  6 158 14  175.8  0.474  1.783  0.009 1148.  783.    -53.9  0.2720  0.52  0.19   4.10  326.0  15.0  298.1   2.0    0   0.00   46.   997.     3 NAD-SFC NoSubs
 8  6  6 158 15  153.8  0.569  1.738  0.009 1215. 1029.   -106.6  0.2930  0.52  0.19   5.10  333.0  15.0  298.2   2.0    0   0.00   45.   997.     3 NAD-SFC NoSubs
 8  6  6 158 16  122.2  0.619  1.631  0.009 1265. 1166.   -172.1  0.2930  0.52  0.20   5.70  343.0  15.0  297.9   2.0    0   0.00   45.   997.     3 NAD-SFC NoSubs
 8  6  6 158 17   81.9  0.552  1.439  0.009 1296.  990.   -182.4  0.2930  0.52  0.22   5.10  342.0  15.0  297.2   2.0    0   0.00   47.   997.     2 NAD-SFC NoSubs
 8  6  6 158 18   36.3  0.387  1.101  0.009 1309.  603.   -142.1  0.2720  0.52  0.29   3.60  329.0  15.0  296.2   2.0    0   0.00   56.   997.     2 NAD-SFC NoSubs
 8  6  6 158 19  -18.3  0.413 -9.000 -9.000 -999.  637.    343.0  0.2930  0.52  0.49   4.10  333.0  15.0  294.6   2.0    0   0.00   59.   998.     2 NAD-SFC NoSubs
 8  6  6 158 20  -41.8  0.397 -9.000 -9.000 -999.  601.    133.4  0.2720  0.52  1.00   4.10  326.0  15.0  292.8   2.0    0   0.00   63.   998.     2 NAD-SFC NoSubs
 8  6  6 158 21  -41.8  0.406 -9.000 -9.000 -999.  620.    142.3  0.2930  0.52  1.00   4.10  332.0  15.0  291.2   2.0    0   0.00   65.   998.     3 NAD-SFC NoSubs
 8  6  6 158 22  -35.8  0.347 -9.000 -9.000 -999.  493.    103.6  0.2720  0.52  1.00   3.60  318.0  15.0  290.4   2.0    0   0.00   67.   998.     3 NAD-SFC NoSubs
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8	6	6	158	23	-35.9	0.347	-9.000	-9.000	-999.	490.	103.3	0.2720	0.52	1.00	3.60	321.0	15.0	289.6	2.0	0	0.00	69.	998.	3	NAD-SFC	NoSubs
8	6	6	158	24	-36.0	0.347	-9.000	-9.000	-999.	490.	103.0	0.2720	0.52	1.00	3.60	325.0	15.0	288.8	2.0	0	0.00	73.	998.	3	NAD-SFC	NoSubs
8	6	7	159	1	-24.6	0.246	-9.000	-9.000	-999.	298.	53.9	0.2720	0.52	1.00	2.60	320.0	15.0	288.0	2.0	0	0.00	74.	998.	3	NAD-SFC	NoSubs
8	6	7	159	2	-7.9	0.137	-9.000	-9.000	-999.	128.	28.9	0.2720	0.52	1.00	1.50	315.0	15.0	287.4	2.0	0	0.00	74.	998.	3	NAD-SFC	NoSubs
8	6	7	159	3	-3.6	0.096	-9.000	-9.000	-999.	72.	22.4	0.2160	0.52	1.00	1.00	283.0	15.0	287.0	2.0	0	0.00	74.	999.	3	NAD-SFC	NoSubs
8	6	7	159	4	-1.5	0.080	-9.000	-9.000	-999.	54.	31.1	0.1950	0.52	1.00	0.50	236.0	15.0	286.5	2.0	0	0.00	74.	999.	3	NAD-SFC	NoSubs
8	6	7	159	5	-1.5	0.080	-9.000	-9.000	-999.	54.	31.1	0.1950	0.52	1.00	0.50	238.0	15.0	286.2	2.0	0	0.00	74.	999.	3	NAD-SFC	NoSubs
8	6	7	159	6	-0.3	0.044	-9.000	-9.000	-999.	22.	21.6	0.1750	0.52	0.45	0.50	246.0	15.0	286.1	2.0	0	0.00	74.	1000.	3	NAD-SFC	NoSubs
8	6	7	159	7	39.6	0.153	0.627	0.007	222.	144.	-8.1	0.2930	0.52	0.27	1.00	337.0	15.0	287.8	2.0	0	0.00	65.	1000.	2	NAD-SFC	NoSubs
8	6	7	159	8	84.7	-9.000	-9.000	-9.000	357.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	289.1	2.0	0	0.00	59.	1000.	2	NAD-SFC	NoSubs
8	6	7	159	9	123.9	-9.000	-9.000	-9.000	543.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	290.8	2.0	0	0.00	54.	999.	2	NAD-SFC	NoSubs
8	6	7	159	10	155.1	0.112	1.458	0.006	713.	90.	-1.0	0.2160	0.52	0.19	0.50	294.0	15.0	292.5	2.0	0	0.00	48.	999.	2	NAD-SFC	NoSubs
8	6	7	159	11	176.6	0.120	1.615	0.005	851.	100.	-1.0	0.2720	0.52	0.19	0.50	310.0	15.0	294.2	2.0	0	0.00	42.	999.	2	NAD-SFC	NoSubs
8	6	7	159	12	186.9	0.182	1.725	0.007	980.	187.	-2.9	0.2720	0.52	0.19	1.00	306.0	15.0	295.8	2.0	0	0.00	38.	998.	2	NAD-SFC	NoSubs
8	6	7	159	13	186.8	0.239	1.818	0.010	1146.	281.	-6.5	0.2930	0.52	0.19	1.50	333.0	15.0	296.9	2.0	0	0.00	36.	997.	2	NAD-SFC	NoSubs
8	6	7	159	14	176.0	0.296	1.850	0.012	1283.	387.	-13.1	0.2930	0.52	0.19	2.10	338.0	15.0	297.8	2.0	0	0.00	34.	997.	2	NAD-SFC	NoSubs
8	6	7	159	15	154.1	0.385	1.805	0.013	1357.	574.	-33.0	0.2930	0.52	0.19	3.10	353.0	15.0	298.4	2.0	0	0.00	33.	996.	2	NAD-SFC	NoSubs
8	6	7	159	16	122.5	0.424	1.683	0.013	1386.	662.	-55.3	0.2930	0.52	0.20	3.60	349.0	15.0	298.8	2.0	0	0.00	34.	996.	2	NAD-SFC	NoSubs
8	6	7	159	17	82.8	0.412	1.484	0.013	1405.	636.	-75.2	0.2930	0.52	0.22	3.60	354.0	15.0	298.6	2.0	0	0.00	35.	996.	2	NAD-SFC	NoSubs
8	6	7	159	18	37.4	0.256	1.142	0.013	1413.	329.	-39.8	0.2930	0.52	0.28	2.10	354.0	15.0	298.2	2.0	0	0.00	44.	996.	2	NAD-SFC	NoSubs
8	6	7	159	19	-2.2	0.094	-9.000	-9.000	-999.	102.	33.8	0.2930	0.52	0.49	1.00	333.0	15.0	297.9	2.0	0	0.00	44.	997.	2	NAD-SFC	NoSubs
8	6	7	159	20	-1.5	0.080	-9.000	-9.000	-999.	55.	31.2	0.2160	0.52	1.00	0.50	278.0	15.0	296.8	2.0	0	0.00	46.	997.	2	NAD-SFC	NoSubs
8	6	7	159	21	-1.4	0.080	-9.000	-9.000	-999.	54.	31.0	0.1950	0.52	1.00	0.50	229.0	15.0	295.5	2.0	0	0.00	49.	997.	2	NAD-SFC	NoSubs
8	6	7	159	22	-3.4	0.095	-9.000	-9.000	-999.	70.	22.0	0.1950	0.52	1.00	1.00	210.0	15.0	294.1	2.0	0	0.00	53.	997.	2	NAD-SFC	NoSubs
8	6	7	159	23	-6.8	0.125	-9.000	-9.000	-999.	106.	25.5	0.1900	0.52	1.00	1.50	199.0	15.0	292.9	2.0	0	0.00	55.	997.	2	NAD-SFC	NoSubs
8	6	7	159	24	-3.4	0.094	-9.000	-9.000	-999.	69.	21.8	0.1810	0.52	1.00	1.00	167.0	15.0	291.8	2.0	0	0.00	56.	997.	2	NAD-SFC	NoSubs
8	6	8	160	1	-3.5	0.095	-9.000	-9.000	-999.	70.	22.0	0.1900	0.52	1.00	1.00	190.0	15.0	291.0	2.0	0	0.00	58.	998.	2	NAD-SFC	NoSubs
8	6	8	160	2	-6.9	0.126	-9.000	-9.000	-999.	107.	25.6	0.1950	0.52	1.00	1.50	230.0	15.0	290.1	2.0	0	0.00	59.	998.	2	NAD-SFC	NoSubs
8	6	8	160	3	-20.4	0.218	-9.000	-9.000	-999.	244.	45.1	0.1750	0.52	1.00	2.60	246.0	15.0	289.2	2.0	0	0.00	60.	998.	2	NAD-SFC	NoSubs
8	6	8	160	4	-28.1	0.263	-9.000	-9.000	-999.	324.	57.7	0.1750	0.52	1.00	3.10	267.0	15.0	288.1	2.0	0	0.00	63.	999.	2	NAD-SFC	NoSubs
8	6	8	160	5	-29.8	0.278	-9.000	-9.000	-999.	351.	64.1	0.2160	0.52	1.00	3.10	270.0	15.0	287.2	2.0	0	0.00	65.	999.	2	NAD-SFC	NoSubs
8	6	8	160	6	-6.0	0.226	-9.000	-9.000	-999.	259.	170.8	0.1750	0.52	0.45	2.60	267.0	15.0	287.2	2.0	0	0.00	65.	1000.	2	NAD-SFC	NoSubs
8	6	8	160	7	40.1	0.298	0.514	0.010	121.	390.	-59.0	0.2720	0.52	0.27	2.60	305.0	15.0	289.4	2.0	0	0.00	53.	1001.	2	NAD-SFC	NoSubs
8	6	8	160	8	85.4	0.157	0.847	0.011	254.	163.	-4.1	0.2160	0.52	0.21	1.00	271.0	15.0	291.4	2.0	0	0.00	47.	1001.	2	NAD-SFC	NoSubs
8	6	8	160	9	125.0	0.204	1.102	0.010	383.	222.	-6.1	0.1750	0.52	0.20	1.50	256.0	15.0	294.0	2.0	0	0.00	38.	1001.	2	NAD-SFC	NoSubs
8	6	8	160	10	156.3	0.170	1.314	0.009	518.	168.	-2.8	0.2160	0.52	0.19	1.00	274.0	15.0	295.9	2.0	0	0.00	34.	1000.	2	NAD-SFC	NoSubs
8	6	8	160	11	178.0	0.114	1.473	0.008	641.	93.	-1.0	0.2160	0.52	0.19	0.50	289.0	15.0	297.9	2.0	0	0.00	30.	1000.	2	NAD-SFC	NoSubs
8	6	8	160	12	188.6	0.121	1.602	0.008	778.	101.	-1.0	0.2720	0.52	0.19	0.50	321.0	15.0	299.6	2.0	0	0.00	27.	999.	2	NAD-SFC	NoSubs
8	6	8	160	13	188.7	0.186	1.682	0.007	899.	192.	-3.0	0.2930	0.52	0.19	1.00	355.0	15.0	301.0	2.0	0	0.00	26.	998.	2	NAD-SFC	NoSubs
8	6	8	160	14	178.0	0.238	1.711	0.007	1003.	279.	-6.8	0.2940	0.52	0.19	1.50	4.0	15.0	301.9	2.0	0	0.00	25.	998.	2	NAD-SFC	NoSubs
8	6	8	160	15	156.1	0.340	1.684	0.007	1092.	475.	-22.4	0.2930	0.52	0.19	2.60	360.0	15.0	302.4	2.0	0	0.00	26.	998.	2	NAD-SFC	NoSubs
8	6	8	160	16	124.6	0.425	1.594	0.006	1158.	664.	-54.7	0.2940	0.52	0.20	3.60	11.0	15.0	302.8	2.0	0	0.00	28.	997.	2	NAD-SFC	NoSubs
8	6	8	160	17	84.6	0.413	1.418	0.006	1199.	638.	-74.1	0.2940	0.52	0.22	3.60	9.0	15.0	302.0	2.0	0	0.00	37.	997.	2	NAD-SFC	NoSubs
8	6	8	160	18	39.1	0.349	1.101	0.006	1216.	497.	-96.5	0.2940	0.52	0.28	3.10	13.0	15.0	301.2	2.0	0	0.00	44.	997.	2	NAD-SFC	NoSubs
8	6	8	160	19	-9.0	0.312	-9.000	-9.000	-999.	418.	300.3	0.2930	0.52	0.49	3.10	349.0	15.0	300.4	2.0	0	0.00	44.	998.	2	NAD-SFC	NoSubs
8	6	8	160	20	-31.2	0.303	-9.000	-9.000	-999.	401.	79.5	0.2930	0.52	1.00	3.10	334.0	15.0	299.1	2.0	0	0.00	47.	998.	2	NAD-SFC	NoSubs
8	6	8	160	21	-30.7	0.297	-9.000	-9.000	-999.	388.	75.7	0.2720	0.52	1.00	3.10	306.0	15.0	297.8	2.0	0	0.00	50.	998.	2	NAD-SFC	NoSubs
8	6	8	160	22	-22.1	0.231	-9.000	-9.000	-999.	267.	49.4	0.2160	0.52	1.00	2.60	298.0	15.0	296.4	2.0	0	0.00	53.	998.	2	NAD-SFC	NoSubs
8	6	8	160	23	-22.1	0.231	-9.000	-9.000	-999.	266.	49.3	0.2160	0.52	1.00	2.60	284.0	15.0	295.1	2.0	0	0.00	54.	998.	2	NAD-SFC	NoSubs
8	6	8	160	24	-22.2	0.231	-9.000	-9.000	-999.	266.	49.2	0.2160	0.52	1.00	2.60	297.0	15.0	294.2	2.0	0	0.00	54.	998.	2	NAD-SFC	NoSubs
8	6	9	161	1	-15.8	0.195	-9.000	-9.000	-999.	208.	41.9	0.2720	0.52	1.00	2.10	316.0	15.0	293.2	2.0	0	0.00	55.	998.	2	NAD-SFC	NoSubs
8	6	9	161	2	-25.6	0.252	-9.000	-9.000	-999.	303.	55.2	0.2930	0.52	1.00	2.60	330.0	15.0	292.5	2.0	0	0.00	58.	998.	2	NAD-SFC	NoSubs
8	6	9	161	3	-15.9	0.195	-9.000	-9.000	-999.	208.	41.8	0.2720	0.52	1.00	2.10	310.0	15.0	291.6	2.0	0	0.00	62.	998.	2	NAD-SFC	NoSubs
8	6	9	161	4	-7.2	0.129	-9.000	-9.000	-999.	112.	26.5	0.2160	0.52	1.00	1.50	277.0	15.0	290.8	2.0	0	0.00	65.	998.	2	NAD-SFC	NoSubs
8	6	9	161	5	-14.3	0.183	-9.000	-9.000	-999.	188.	38.1	0.2160	0.52	1.00	2.10	280.0	15.0	290.2	2.0	0	0.00	66.	999.	2	NAD-SFC	NoSubs
8	6	9	161	6	-4.3	0.192	-9.000	-9.000	-999.	201.	145.1	0.2160	0.52	0.45	2.10	291.0	15.0	290.0	2.0	0	0.00	67.	999.	2	NAD-SFC	NoSubs
8	6	9	161	7	40.7	0.253	0.528	0.009	128.	306.	-35.5	0.2720	0.52	0.27	2.10	320.0	15.0	291.5	2.0	0	0.00	62.	999.	2	NAD-SFC	NoSubs
8	6	9	161	8	86.0	-9.000	-9.000	-9.000	201.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	293.5	2.0	0	0.00	56.	1000.	2	NAD-SFC	NoSubs
8	6	9	161	9	125.7	-9.000	-9.000	-9.000	314.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.1	2.0	0	0.00	47.	999.	2	NAD-SFC	NoSubs
8	6	9	161	10	157.2	-9.000	-9.000	-9.000	447.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.1	2.0	0	0.00	41.	999.	2	NAD-SFC	NoSubs
8	6	9	161	11	179.0	-9.000	-9.000	-9.000	637.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.0	2.0	0	0.00	37.	998.	2	NAD-SFC	NoSubs
8	6	9	161	12	189.6	-9.000	-9.000	-9.000	802.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.8	2.0	0	0.00	33.	997.	2	NAD-SFC	NoSubs
8	6	9	161	13	189.8	-9.000	-9.000	-9.000	940.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.2	2.0	0	0.00	30.	997.	2	NAD-SFC	NoSubs
8	6	9	161	14	179.3	0.122	1.732	0.008	1031.	103.	-1.0	0.2930	0.52	0.19	0.50	347.0	15.0	304.2	2.0	0	0.00	28.	996.	2	NAD-SFC	NoSubs
8	6	9	161	15	157.6	0.234	1.694	0.007	1097.	272.	-7.3	0.2940	0.52	0.19	1.50	1.0	15.0	304.9	2.0	0	0.00	28.	995.	2	NAD-SFC	NoSubs
8	6	9	161	16	126.1	0.333	1.596	0.007	1147.	461.	-26.0	0.2940	0.52	0.20	2.60	9.0	15.0	305.1	2.0	0	0.00	29.	995.	2	NAD-SFC	NoSubs
8	6	9	161	17	86.2	0.322	1.419	0.006	1179.	439.	-34.4	0.2940	0.52	0.22	2.60	11.0	15.0	304.5	2.0	0	0.00	35.	995.	2	NAD-SFC	NoSubs
8	6	9	161	18	40.8	0.258	1.110	0.006	1192.	316.	-37.3	0.2940	0.52	0.28	2.10	9.0	15.0	303.9	2.0	0	0.00	42.	995.	2	NAD-SFC	NoSubs
8	6	9	161	19	-4.1	0.209	-9.000	-9.000	-999.	230.	199.3	0.2930	0.52	0.48	2.10	346.0	15.0	302.9	2.0	0	0.00	44.	995.	2	NAD-SFC	NoSubs
8	6	9	161	20	-7.8	0.137	-9.000	-9.000	-999.	123.	29.2	0.2720	0.52	1.00	1.50	315.0	15.0	301.4	2.0	0	0.00	47.	995.	2	NAD-SFC	NoSubs
8	6	9	161	21	-14.0	0.183	-9.000	-9.000	-999.	188.	38.8	0.2160	0.52	1.00	2.10	297.0	15.0	299.9	2.0	0	0.00	50.	995.	2	NAD-SFC	NoSubs
8	6	9	161	22	-15.6	0.196	-9.000	-9.000	-999.	207.	42.4	0.2720	0.52	1.00	2.10	300.0	15.0	298.8	2.0	0	0.00	52.	995.	2	NAD-SFC	NoSubs
8	6	9	161	23	-24.4	0.246	-9.000	-9.000	-999.	293.	54.1	0.2720	0.52	1.00	2.60	302.0	15.0	297.5	2.0	0	0.00	55.	995.	2	NAD-SFC	NoSubs
8	6	9	161	24	-15.7	0.195	-9.000	-9.000	-999.	208.	42.2	0.2720	0.52	1.00	2.10	310.0	15.0	296.2	2.0	0	0.00	58.	995.	2	NAD-SFC	NoSubs
8	6	10	162	1	-25.5	0.252	-9.000	-9.000	-999.	303.	55.5	0.2930	0.52	1.00	2.60	334.0	15.0	295.1	2.0	0	0.00	62.	995.	2	NAD-SFC	NoSubs
8	6	10	162	2	-37.0	0.354	-9.000	-9.000	-999.	506.	106.7	0.2930	0.52	1.00	3.60	342.0	15.0	294.0	2.0	0	0.00	69.	995.	2	NAD-SFC	NoSubs
8	6	10	162	3	-31.8	0.303	-9.000	-9.000	-999.	402.	77.7	0.2930	0.52	1.00	3.10	341.0	15.0	292.8	2.0	0	0.00	78.	995.	2	NAD-SFC	NoSubs

8	6	10	162	4	-25.6	0.252	-9.000	-9.000	-999.	304.	55.2	0.2930	0.52	1.00	2.60	336.0	15.0	292.0	2.0	0	0.00	83.	995.	2	NAD-SFC	NoSubs
8	6	10	162	5	-15.8	0.195	-9.000	-9.000	-999.	208.	41.8	0.2720	0.52	1.00	2.10	327.0	15.0	291.5	2.0	0	0.00	86.	996.	2	NAD-SFC	NoSubs
8	6	10	162	6	-1.6	0.096	-9.000	-9.000	-999.	76.	47.7	0.2930	0.52	0.45	1.00	331.0	15.0	291.4	2.0	0	0.00	87.	996.	2	NAD-SFC	NoSubs
8	6	10	162	7	41.2	0.304	0.542	0.007	137.	402.	-60.4	0.2930	0.52	0.27	2.60	336.0	15.0	293.2	2.0	0	0.00	78.	997.	2	NAD-SFC	NoSubs
8	6	10	162	8	86.6	0.168	0.840	0.010	243.	177.	-4.9	0.2930	0.52	0.21	1.00	341.0	15.0	295.2	2.0	0	0.00	69.	997.	2	NAD-SFC	NoSubs
8	6	10	162	9	126.1	0.114	1.082	0.008	357.	94.	-1.1	0.2720	0.52	0.20	0.50	306.0	15.0	297.0	2.0	0	0.00	63.	997.	2	NAD-SFC	NoSubs
8	6	10	162	10	157.4	0.179	1.322	0.007	523.	181.	-3.2	0.2720	0.52	0.19	1.00	308.0	15.0	298.6	2.0	0	0.00	56.	997.	2	NAD-SFC	NoSubs
8	6	10	162	11	179.0	0.292	1.517	0.007	694.	379.	-12.4	0.2720	0.52	0.19	2.10	316.0	15.0	300.1	2.0	0	0.00	51.	997.	2	NAD-SFC	NoSubs
8	6	10	162	12	189.1	0.392	1.671	0.008	878.	590.	-28.4	0.2930	0.52	0.19	3.10	333.0	15.0	301.0	2.0	0	0.00	49.	996.	3	NAD-SFC	NoSubs
8	6	10	162	13	188.9	0.477	1.750	0.008	1009.	789.	-50.9	0.2720	0.52	0.19	4.10	329.0	15.0	301.6	2.0	0	0.00	48.	996.	3	NAD-SFC	NoSubs
8	6	10	162	14	178.1	0.574	1.762	0.007	1092.	1043.	-94.4	0.2930	0.52	0.19	5.10	332.0	15.0	301.9	2.0	0	0.00	46.	996.	3	NAD-SFC	NoSubs
8	6	10	162	15	156.2	0.626	1.721	0.007	1161.	1187.	-139.3	0.2930	0.52	0.19	5.70	338.0	15.0	301.9	2.0	0	0.00	44.	995.	3	NAD-SFC	NoSubs
8	6	10	162	16	124.7	0.666	1.619	0.006	1210.	1303.	-210.6	0.2930	0.52	0.20	6.20	340.0	15.0	301.4	2.0	0	0.00	41.	996.	3	NAD-SFC	NoSubs
8	6	10	162	17	84.5	0.506	1.434	0.007	1242.	890.	-136.1	0.2930	0.52	0.22	4.60	332.0	15.0	300.5	2.0	0	0.00	43.	996.	2	NAD-SFC	NoSubs
8	6	10	162	18	38.8	0.395	1.110	0.007	1254.	608.	-141.3	0.2930	0.52	0.28	3.60	332.0	15.0	299.0	2.0	0	0.00	49.	996.	2	NAD-SFC	NoSubs
8	6	10	162	19	-13.5	0.416	-9.000	-9.000	-999.	643.	473.5	0.2930	0.52	0.48	4.10	331.0	15.0	297.2	2.0	0	0.00	51.	997.	2	NAD-SFC	NoSubs
8	6	10	162	20	-41.3	0.397	-9.000	-9.000	-999.	601.	134.6	0.2720	0.52	1.00	4.10	319.0	15.0	295.4	2.0	0	0.00	52.	997.	2	NAD-SFC	NoSubs
8	6	10	162	21	-36.3	0.347	-9.000	-9.000	-999.	492.	102.3	0.2720	0.52	1.00	3.60	318.0	15.0	294.2	2.0	0	0.00	52.	998.	2	NAD-SFC	NoSubs
8	6	10	162	22	-24.7	0.246	-9.000	-9.000	-999.	298.	53.7	0.2720	0.52	1.00	2.60	310.0	15.0	293.2	2.0	0	0.00	51.	998.	2	NAD-SFC	NoSubs
8	6	10	162	23	-3.9	0.101	-9.000	-9.000	-999.	96.	23.3	0.2720	0.52	1.00	1.00	315.0	15.0	292.6	2.0	0	0.00	52.	998.	2	NAD-SFC	NoSubs
8	6	10	162	24	-1.5	0.080	-9.000	-9.000	-999.	54.	31.2	0.1950	0.52	1.00	0.50	230.0	15.0	292.0	2.0	0	0.00	52.	998.	2	NAD-SFC	NoSubs
8	6	11	163	1	-1.5	0.081	-9.000	-9.000	-999.	55.	31.4	0.2160	0.52	1.00	0.50	272.0	15.0	291.8	2.0	0	0.00	50.	998.	2	NAD-SFC	NoSubs
8	6	11	163	2	-3.4	0.094	-9.000	-9.000	-999.	69.	21.7	0.1750	0.52	1.00	1.00	268.0	15.0	291.2	2.0	0	0.00	50.	999.	2	NAD-SFC	NoSubs
8	6	11	163	3	-6.6	0.122	-9.000	-9.000	-999.	103.	24.7	0.1750	0.52	1.00	1.50	248.0	15.0	290.5	2.0	0	0.00	51.	999.	2	NAD-SFC	NoSubs
8	6	11	163	4	-20.4	0.218	-9.000	-9.000	-999.	244.	45.2	0.1750	0.52	1.00	2.60	246.0	15.0	289.9	2.0	0	0.00	52.	999.	2	NAD-SFC	NoSubs
8	6	11	163	5	-28.1	0.263	-9.000	-9.000	-999.	324.	57.9	0.1750	0.52	1.00	3.10	262.0	15.0	289.2	2.0	0	0.00	53.	1000.	2	NAD-SFC	NoSubs
8	6	11	163	6	-7.0	0.287	-9.000	-9.000	-999.	369.	302.3	0.2160	0.52	0.45	3.10	274.0	15.0	288.6	2.0	0	0.00	59.	1000.	2	NAD-SFC	NoSubs
8	6	11	163	7	40.3	0.298	0.649	0.010	242.	391.	-58.7	0.2720	0.52	0.27	2.60	318.0	15.0	290.0	2.0	0	0.00	57.	1000.	2	NAD-SFC	NoSubs
8	6	11	163	8	85.6	0.168	0.933	0.010	338.	175.	-4.9	0.2930	0.52	0.21	1.00	330.0	15.0	292.1	2.0	0	0.00	48.	1000.	2	NAD-SFC	NoSubs
8	6	11	163	9	125.0	0.116	1.168	0.010	455.	96.	-1.1	0.2930	0.52	0.20	0.50	330.0	15.0	294.0	2.0	0	0.00	42.	1000.	2	NAD-SFC	NoSubs
8	6	11	163	10	156.3	0.118	1.363	0.009	579.	97.	-1.0	0.2720	0.52	0.19	0.50	324.0	15.0	295.9	2.0	0	0.00	37.	1000.	2	NAD-SFC	NoSubs
8	6	11	163	11	178.0	0.184	1.516	0.009	698.	190.	-3.1	0.2930	0.52	0.19	1.00	331.0	15.0	297.6	2.0	0	0.00	32.	999.	2	NAD-SFC	NoSubs
8	6	11	163	12	188.5	0.240	1.626	0.008	813.	282.	-6.5	0.2930	0.52	0.19	1.50	330.0	15.0	299.1	2.0	0	0.00	28.	999.	2	NAD-SFC	NoSubs
8	6	11	163	13	188.5	0.346	1.691	0.008	914.	489.	-19.6	0.2930	0.52	0.19	2.60	343.0	15.0	300.0	2.0	0	0.00	26.	998.	2	NAD-SFC	NoSubs
8	6	11	163	14	177.8	0.390	1.711	0.008	1005.	585.	-29.7	0.2930	0.52	0.19	3.10	355.0	15.0	300.6	2.0	0	0.00	25.	998.	2	NAD-SFC	NoSubs
8	6	11	163	15	155.8	0.432	1.682	0.007	1087.	681.	-46.0	0.2930	0.52	0.19	3.60	351.0	15.0	300.8	2.0	0	0.00	26.	997.	2	NAD-SFC	NoSubs
8	6	11	163	16	124.4	0.425	1.589	0.007	1148.	665.	-54.8	0.2940	0.52	0.20	3.60	2.0	15.0	300.9	2.0	0	0.00	27.	997.	2	NAD-SFC	NoSubs
8	6	11	163	17	84.8	0.413	1.414	0.007	1187.	637.	-73.8	0.2930	0.52	0.22	3.60	359.0	15.0	300.6	2.0	0	0.00	31.	997.	2	NAD-SFC	NoSubs
8	6	11	163	18	39.5	0.257	1.102	0.007	1204.	331.	-38.2	0.2930	0.52	0.28	2.10	344.0	15.0	300.1	2.0	0	0.00	40.	997.	2	NAD-SFC	NoSubs
8	6	11	163	19	-6.7	0.260	-9.000	-9.000	-999.	318.	234.8	0.2930	0.52	0.48	2.60	334.0	15.0	299.5	2.0	0	0.00	40.	997.	2	NAD-SFC	NoSubs
8	6	11	163	20	-31.3	0.303	-9.000	-9.000	-999.	401.	79.2	0.2930	0.52	1.00	3.10	330.0	15.0	298.2	2.0	0	0.00	43.	998.	2	NAD-SFC	NoSubs
8	6	11	163	21	-31.5	0.303	-9.000	-9.000	-999.	401.	78.8	0.2930	0.52	1.00	3.10	331.0	15.0	296.8	2.0	0	0.00	46.	998.	2	NAD-SFC	NoSubs
8	6	11	163	22	-16.4	0.200	-9.000	-9.000	-999.	220.	43.4	0.2930	0.52	1.00	2.10	336.0	15.0	295.5	2.0	0	0.00	49.	998.	2	NAD-SFC	NoSubs
8	6	11	163	23	-7.1	0.129	-9.000	-9.000	-999.	112.	26.6	0.2160	0.52	1.00	1.50	287.0	15.0	294.2	2.0	0	0.00	52.	998.	2	NAD-SFC	NoSubs
8	6	11	163	24	-7.2	0.129	-9.000	-9.000	-999.	111.	26.6	0.2160	0.52	1.00	1.50	274.0	15.0	293.4	2.0	0	0.00	52.	998.	2	NAD-SFC	NoSubs
8	6	12	164	1	-1.5	0.081	-9.000	-9.000	-999.	55.	31.4	0.2160	0.52	1.00	0.50	289.0	15.0	292.5	2.0	0	0.00	53.	998.	2	NAD-SFC	NoSubs
8	6	12	164	2	-3.9	0.101	-9.000	-9.000	-999.	77.	23.3	0.2720	0.52	1.00	1.00	313.0	15.0	291.8	2.0	0	0.00	55.	998.	2	NAD-SFC	NoSubs
8	6	12	164	3	-15.9	0.195	-9.000	-9.000	-999.	207.	41.7	0.2720	0.52	1.00	2.10	308.0	15.0	291.1	2.0	0	0.00	56.	999.	2	NAD-SFC	NoSubs
8	6	12	164	4	-31.5	0.296	-9.000	-9.000	-999.	387.	73.7	0.2720	0.52	1.00	3.10	302.0	15.0	290.2	2.0	0	0.00	58.	999.	2	NAD-SFC	NoSubs
8	6	12	164	5	-14.3	0.183	-9.000	-9.000	-999.	194.	38.0	0.2160	0.52	1.00	2.10	290.0	15.0	289.4	2.0	0	0.00	60.	999.	2	NAD-SFC	NoSubs
8	6	12	164	6	-3.0	0.128	-9.000	-9.000	-999.	110.	61.5	0.1750	0.52	0.45	1.50	252.0	15.0	289.1	2.0	0	0.00	61.	1000.	2	NAD-SFC	NoSubs
8	6	12	164	7	40.6	0.253	0.523	0.008	126.	306.	-35.7	0.2720	0.52	0.27	2.10	315.0	15.0	291.1	2.0	0	0.00	50.	1000.	2	NAD-SFC	NoSubs
8	6	12	164	8	85.8	0.157	0.812	0.009	223.	154.	-4.0	0.2160	0.52	0.21	1.00	280.0	15.0	293.0	2.0	0	0.00	44.	1000.	2	NAD-SFC	NoSubs
8	6	12	164	9	125.5	0.104	1.076	0.007	354.	81.	-1.0	0.1750	0.52	0.20	0.50	262.0	15.0	295.5	2.0	0	0.00	37.	1000.	2	NAD-SFC	NoSubs
8	6	12	164	10	156.9	-9.000	-9.000	-9.000	530.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.5	2.0	0	0.00	32.	1000.	2	NAD-SFC	NoSubs
8	6	12	164	11	178.8	-9.000	-9.000	-9.000	740.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.6	2.0	0	0.00	28.	999.	2	NAD-SFC	NoSubs
8	6	12	164	12	189.6	-9.000	-9.000	-9.000	986.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.4	2.0	0	0.00	25.	999.	2	NAD-SFC	NoSubs
8	6	12	164	13	189.8	-9.000	-9.000	-9.000	1096.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.8	2.0	0	0.00	23.	998.	2	NAD-SFC	NoSubs
8	6	12	164	14	179.5	0.122	1.817	0.008	1192.	103.	-1.0	0.2940	0.52	0.19	0.50	24.0	15.0	303.9	2.0	0	0.00	22.	997.	2	NAD-SFC	NoSubs
8	6	12	164	15	157.9	0.182	1.778	0.008	1269.	186.	-3.4	0.2940	0.52	0.19	1.00	20.0	15.0	304.5	2.0	0	0.00	22.	997.	2	NAD-SFC	NoSubs
8	6	12	164	16	126.5	0.286	1.676	0.007	1327.	368.	-16.5	0.2940	0.52	0.20	2.10	24.0	15.0	304.6	2.0	0	0.00	24.	997.	2	NAD-SFC	NoSubs
8	6	12	164	17	86.6	0.368	1.491	0.007	1362.	536.	-51.3	0.2940	0.52	0.22	3.10	25.0	15.0	303.8	2.0	0	0.00	32.	997.	2	NAD-SFC	NoSubs
8	6	12	164	18	41.0	0.350	1.167	0.007	1377.	497.	-92.7	0.2940	0.52	0.28	3.10	15.0	15.0	302.6	2.0	0	0.00	41.	997.	2	NAD-SFC	NoSubs
8	6	12	164	19	-7.7	0.421	-9.000	-9.000	-999.	655.	858.9	0.2940	0.52	0.48	4.10	6.0	15.0	301.5	2.0	0	0.00	43.	998.	2	NAD-SFC	NoSubs
8	6	12	164	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	300.5	2.0	0	0.00	44.	998.	2	NAD-SFC	NoSubs
8	6	12	164	21	-33.5	0.325	-9.000	-9.000	-999.	445.	91.6	0.2160	0.52	1.00	3.60	298.0	15.0	299.2	2.0	0	0.00	46.	998.	2	NAD-SFC	NoSubs
8	6	12	164	22	-43.6	0.420	-9.000	-9.000	-999.	653.	151.2	0.2160	0.52	1.00	4.60	277.0	15.0	296.5	2.0	0	0.00	55.	999.	2	NAD-SFC	NoSubs
8	6	12	164	23	-34.0	0.325	-9.000	-9.000	-999.	451.	90.2	0.2160	0.52	1.00	3.60	287.0	15.0	294.9	2.0	0	0.00	57.	999.	2	NAD-SFC	NoSubs
8	6	12	164	24	-31.1	0.296	-9.000	-9.000	-999.	388.	74.8	0.2720	0.52	1.00	3.10	308.0	15.0	294.2	2.0	0	0.00	57.	999.	2	NAD-SFC	NoSubs
8	6	13	165	1	-4.0	0.102	-9.000	-9.000	-999.	125.	23.6	0.2930	0.52	1.00	1.00	349.0	15.0	293.8	2.0	0	0.00	57.	1000.	2	NAD-SFC	NoSubs
8	6	13	165	2	-3.6	0.096	-9.000	-9.000	-999.	72.	22.4	0.2130	0.52	1.00	1.00	90.0	15.0	293.5	2.0	0	0.00	57.	1000.	2	NAD-SFC	NoSubs
8	6	13	165	3	-1.4	0.079	-9.000	-9.000	-999.	53.	31.0	0.1810	0.52	1.00	0.50	159.0	15.0	292.8	2.0	0	0.00	60.	1001.	2	NAD-SFC	NoSubs
8	6	13	165	4	-3.4	0.093	-9.000	-9.000	-999.	69.	21.7	0.1750	0.52	1.00	1.00	240.0	15.0	292.1	2.0	0	0.00	62.	1001.	2	NAD-SFC	NoSubs
8	6	13	165	5	-7.2	0.129	-9.000	-9.000	-999.	111.	26.5	0.2160	0.52	1.00	1.50	277.0	15.0	291.8	2.0	0	0.00	62.	1001.	2	NAD-SFC	NoSubs
8	6	13	165	6	-5.1	0.256	-9.000	-9.000	-999.	310.	294.5	0.2720	0.52	0.45	2.60	301.0	15.0	291.6	2.0	0	0.00	62.	1002.	2	NAD-SFC	NoSubs
8	6	13	165	7	41.2	0.299	0.518	0.006	120.	392.	-57.8	0.2720	0.52	0.27	2.60	319.0	15.0	293.2	2.0	0	0.00	56.	1002.	2	NAD-SFC	NoSubs
8	6	13	165	8	86.4	0.271	0.861	0.007	264.	339.	-20.6	0.2720	0.52	0.21	2.10	307.0	15.0	294.9	2.0	0	0.00	52.	1002.	2	NAD-SFC	NoSubs

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 8  6 13 165  9  126.1  0.174  1.140  0.006  421.  178.     -3.7  0.2720  0.52  0.20  1.00  315.0  15.0  297.2  2.0  0  0.00  45.  1002.  2 NAD-SFC NoSubs
 8  6 13 165 10  158.0  0.118  1.396  0.006  616.   98.     -1.0  0.2720  0.52  0.19  0.50  300.0  15.0  300.1  2.0  0  0.00  33.  1002.  2 NAD-SFC NoSubs
 8  6 13 165 11  180.0 -9.000 -9.000 -9.000  821. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  302.0  2.0  0  0.00  28.  1001.  2 NAD-SFC NoSubs
 8  6 13 165 12  190.8  0.123  1.744  0.007  995.  104.     -1.0  0.2930  0.52  0.19  0.50  335.0  15.0  303.8  2.0  0  0.00  26.  1001.  2 NAD-SFC NoSubs
 8  6 13 165 13  191.2  0.123  1.808  0.007 1104.  104.     -1.0  0.2930  0.52  0.19  0.50  359.0  15.0  305.1  2.0  0  0.00  24.  1000.  2 NAD-SFC NoSubs
 8  6 13 165 14  180.8  0.185  1.825  0.007 1199.  191.     -3.1  0.2940  0.52  0.19  1.00    6.0  15.0  306.1  2.0  0  0.00  24.   999.  2 NAD-SFC NoSubs
 8  6 13 165 15  159.2  0.235  1.786  0.007 1277.  273.     -7.2  0.2940  0.52  0.19  1.50   10.0  15.0  306.8  2.0  0  0.00  24.   999.  2 NAD-SFC NoSubs
 8  6 13 165 16  128.1 -9.000 -9.000 -9.000 1336. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  307.1  2.0  0  0.00  25.   998.  2 NAD-SFC NoSubs
 8  6 13 165 17   88.2  0.369  1.504  0.007 1375.  537.    -50.6  0.2940  0.52  0.22  3.10    8.0  15.0  306.2  2.0  0  0.00  34.   998.  2 NAD-SFC NoSubs
 8  6 13 165 18   42.8 -9.000 -9.000 -9.000 1392. -999. -99999.0  0.2235  0.52  0.28  0.00    0.0  15.0  305.4  2.0  0  0.00  40.   998.  2 NAD-SFC NoSubs
 8  6 13 165 19   -4.0  0.467 -9.000 -9.000 -999.  765.   2284.9  0.2720  0.52  0.47  4.60  306.0  15.0  303.9  2.0  0  0.00  44.   999.  2 NAD-SFC NoSubs
 8  6 13 165 20  -43.3  0.420 -9.000 -9.000 -999.  655.    152.7  0.2160  0.52  1.00  4.60  279.0  15.0  299.4  2.0  0  0.00  58.  1000.  2 NAD-SFC NoSubs
 8  6 13 165 21  -41.4  0.398 -9.000 -9.000 -999.  603.    135.8  0.1750  0.52  1.00  4.60  266.0  15.0  296.8  2.0  0  0.00  65.  1000.  2 NAD-SFC NoSubs
 8  6 13 165 22  -38.9  0.373 -9.000 -9.000 -999.  546.    118.4  0.2160  0.52  1.00  4.10  277.0  15.0  295.2  2.0  0  0.00  68.  1000.  2 NAD-SFC NoSubs
 8  6 13 165 23  -15.8  0.195 -9.000 -9.000 -999.  233.     42.0  0.2720  0.52  1.00  2.10  308.0  15.0  294.6  2.0  0  0.00  69.  1001.  2 NAD-SFC NoSubs
 8  6 13 165 24  -30.3  0.288 -9.000 -9.000 -999.  372.     70.8  0.2470  0.52  1.00  3.10   49.0  15.0  294.2  2.0  0  0.00  69.  1001.  2 NAD-SFC NoSubs
 8  6 14 166  1  -35.5  0.337 -9.000 -9.000 -999.  470.     96.6  0.2470  0.52  1.00  3.60   52.0  15.0  293.8  2.0  0  0.00  72.  1002.  2 NAD-SFC NoSubs
 8  6 14 166  2  -32.0  0.303 -9.000 -9.000 -999.  402.     77.9  0.2940  0.52  1.00  3.10   21.0  15.0  293.0  2.0  0  0.00  74.  1002.  2 NAD-SFC NoSubs
 8  6 14 166  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  292.2  2.0  0  0.00  76.  1002.  2 NAD-SFC NoSubs
 8  6 14 166  4  -25.8  0.252 -9.000 -9.000 -999.  303.     55.1  0.2930  0.52  1.00  2.60  354.0  15.0  291.4  2.0  0  0.00  78.  1002.  2 NAD-SFC NoSubs
 8  6 14 166  5  -16.6  0.200 -9.000 -9.000 -999.  215.     43.1  0.2940  0.52  1.00  2.10    5.0  15.0  291.0  2.0  0  0.00  79.  1002.  2 NAD-SFC NoSubs
 8  6 14 166  6   -3.1  0.147 -9.000 -9.000 -999.  136.     92.8  0.2930  0.52  0.45  1.50  342.0  15.0  291.1  2.0  0  0.00  78.  1002.  2 NAD-SFC NoSubs
 8  6 14 166  7   41.0  0.144  0.567  0.012  159.  131.     -6.5  0.2160  0.52  0.27  1.00  297.0  15.0  292.9  2.0  0  0.00  68.  1002.  2 NAD-SFC NoSubs
 8  6 14 166  8   86.3 -9.000 -9.000 -9.000  280. -999. -99999.0  0.2235  0.52  0.21  0.00    0.0  15.0  294.9  2.0  0  0.00  61.  1002.  2 NAD-SFC NoSubs
 8  6 14 166  9  125.8 -9.000 -9.000 -9.000  416. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  296.8  2.0  0  0.00  56.  1002.  2 NAD-SFC NoSubs
 8  6 14 166 10  157.4 -9.000 -9.000 -9.000  543. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  298.8  2.0  0  0.00  51.  1001.  2 NAD-SFC NoSubs
 8  6 14 166 11  179.3 -9.000 -9.000 -9.000  659. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  300.8  2.0  0  0.00  45.  1001.  2 NAD-SFC NoSubs
 8  6 14 166 12  190.1 -9.000 -9.000 -9.000  794. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  302.2  2.0  0  0.00  41.  1000.  2 NAD-SFC NoSubs
 8  6 14 166 13  190.5 -9.000 -9.000 -9.000  911. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  303.8  2.0  0  0.00  37.   999.  2 NAD-SFC NoSubs
 8  6 14 166 14  180.2  0.185  1.718  0.009 1005.  190.     -3.1  0.2930  0.52  0.19  1.00  357.0  15.0  304.9  2.0  0  0.00  34.   999.  2 NAD-SFC NoSubs
 8  6 14 166 15  158.8 -9.000 -9.000 -9.000 1076. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  305.6  2.0  0  0.00  32.   998.  2 NAD-SFC NoSubs
 8  6 14 166 16  127.5  0.287  1.592  0.009 1129.  368.    -16.4  0.2940  0.52  0.20  2.10   14.0  15.0  305.8  2.0  0  0.00  32.   998.  2 NAD-SFC NoSubs
 8  6 14 166 17   88.1  0.323  1.422  0.009 1164.  439.    -33.9  0.2940  0.52  0.22  2.60    9.0  15.0  305.6  2.0  0  0.00  37.   998.  2 NAD-SFC NoSubs
 8  6 14 166 18   42.9  0.305  1.124  0.009 1180.  404.    -58.6  0.2930  0.52  0.28  2.60  346.0  15.0  305.2  2.0  0  0.00  44.   998.  2 NAD-SFC NoSubs
 8  6 14 166 19   -5.5  0.486 -9.000 -9.000 -999.  812.   1856.0  0.2160  0.52  0.47  5.10  295.0  15.0  302.8  2.0  0  0.00  49.   999.  2 NAD-SFC NoSubs
 8  6 14 166 20  -45.9  0.443 -9.000 -9.000 -999.  710.    168.9  0.1750  0.52  1.00  5.10  267.0  15.0  297.8  2.0  0  0.00  59.   999.  2 NAD-SFC NoSubs
 8  6 14 166 21  -48.8  0.468 -9.000 -9.000 -999.  767.    186.5  0.2160  0.52  1.00  5.10  270.0  15.0  295.2  2.0  0  0.00  61.  1000.  2 NAD-SFC NoSubs
 8  6 14 166 22  -39.1  0.372 -9.000 -9.000 -999.  552.    117.8  0.2160  0.52  1.00  4.10  285.0  15.0  293.8  2.0  0  0.00  64.  1000.  2 NAD-SFC NoSubs
 8  6 14 166 23  -29.3  0.278 -9.000 -9.000 -999.  357.     65.4  0.2160  0.52  1.00  3.10  291.0  15.0  292.9  2.0  0  0.00  66.  1000.  2 NAD-SFC NoSubs
 8  6 14 166 24  -15.9  0.195 -9.000 -9.000 -999.  210.     41.8  0.2720  0.52  1.00  2.10  313.0  15.0  292.4  2.0  0  0.00  65.  1000.  2 NAD-SFC NoSubs
 8  6 15 167  1  -25.4  0.252 -9.000 -9.000 -999.  303.     56.0  0.2930  0.52  1.00  2.60  360.0  15.0  291.8  2.0  0  0.00  67.  1001.  3 NAD-SFC NoSubs
 8  6 15 167  2  -25.5  0.252 -9.000 -9.000 -999.  303.     55.9  0.2930  0.52  1.00  2.60  357.0  15.0  291.0  2.0  0  0.00  71.  1001.  3 NAD-SFC NoSubs
 8  6 15 167  3  -25.8  0.251 -9.000 -9.000 -999.  303.     55.0  0.2930  0.52  1.00  2.60  330.0  15.0  290.2  2.0  0  0.00  73.  1001.  2 NAD-SFC NoSubs
 8  6 15 167  4  -24.9  0.246 -9.000 -9.000 -999.  293.     53.3  0.2720  0.52  1.00  2.60  310.0  15.0  289.9  2.0  0  0.00  73.  1001.  2 NAD-SFC NoSubs
 8  6 15 167  5  -22.4  0.230 -9.000 -9.000 -999.  266.     48.8  0.2160  0.52  1.00  2.60  299.0  15.0  289.8  2.0  0  0.00  72.  1001.  2 NAD-SFC NoSubs
 8  6 15 167  6   -4.7  0.204 -9.000 -9.000 -999.  222.    162.8  0.2720  0.52  0.45  2.10  311.0  15.0  290.0  2.0  0  0.00  72.  1001.  2 NAD-SFC NoSubs
 8  6 15 167  7   40.6  0.151  0.544  0.013  141.  141.     -7.6  0.2720  0.52  0.27  1.00  329.0  15.0  291.8  2.0  0  0.00  68.  1001.  2 NAD-SFC NoSubs
 8  6 15 167  8   85.8 -9.000 -9.000 -9.000  249. -999. -99999.0  0.2235  0.52  0.21  0.00    0.0  15.0  293.6  2.0  0  0.00  65.  1001.  2 NAD-SFC NoSubs
 8  6 15 167  9  125.3 -9.000 -9.000 -9.000  385. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  295.4  2.0  0  0.00  60.  1000.  2 NAD-SFC NoSubs
 8  6 15 167 10  156.8 -9.000 -9.000 -9.000  525. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  297.4  2.0  0  0.00  55.   999.  2 NAD-SFC NoSubs
 8  6 15 167 11  178.7 -9.000 -9.000 -9.000  651. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  299.4  2.0  0  0.00  48.   999.  2 NAD-SFC NoSubs
 8  6 15 167 12  189.6 -9.000 -9.000 -9.000  778. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.1  2.0  0  0.00  44.   998.  2 NAD-SFC NoSubs
 8  6 15 167 13  190.0 -9.000 -9.000 -9.000  889. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  302.8  2.0  0  0.00  40.   997.  2 NAD-SFC NoSubs
 8  6 15 167 14  179.9  0.120  1.705  0.011  981.  100.     -1.0  0.2720  0.52  0.19  0.50  329.0  15.0  304.0  2.0  0  0.00  36.   997.  2 NAD-SFC NoSubs
 8  6 15 167 15  158.4  0.234  1.670  0.011 1047.  272.     -7.2  0.2930  0.52  0.19  1.50  350.0  15.0  304.8  2.0  0  0.00  33.   997.  2 NAD-SFC NoSubs
 8  6 15 167 16  127.3 -9.000 -9.000 -9.000 1098. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  305.1  2.0  0  0.00  32.   997.  2 NAD-SFC NoSubs
 8  6 15 167 17   87.8  0.322  1.407  0.011 1130.  439.    -34.0  0.2940  0.52  0.22  2.60   12.0  15.0  304.8  2.0  0  0.00  38.   997.  2 NAD-SFC NoSubs
 8  6 15 167 18   42.6  0.305  1.111  0.011 1144.  404.    -59.0  0.2940  0.52  0.28  2.60   25.0  15.0  304.2  2.0  0  0.00  46.   998.  2 NAD-SFC NoSubs
 8  6 15 167 19   -1.7  0.267 -9.000 -9.000 -999.  332.    975.8  0.2930  0.52  0.47  2.60  344.0  15.0  303.5  2.0  0  0.00  47.   998.  2 NAD-SFC NoSubs
 8  6 15 167 20  -47.9  0.468 -9.000 -9.000 -999.  768.    190.1  0.2160  0.52  1.00  5.10  271.0  15.0  300.6  2.0  0  0.00  55.   999.  2 NAD-SFC NoSubs
 8  6 15 167 21  -46.1  0.443 -9.000 -9.000 -999.  708.    168.0  0.1750  0.52  1.00  5.10  257.0  15.0  296.1  2.0  0  0.00  66.   999.  2 NAD-SFC NoSubs
 8  6 15 167 22  -41.7  0.398 -9.000 -9.000 -999.  604.    134.7  0.1750  0.52  1.00  4.60  257.0  15.0  294.5  2.0  0  0.00  69.  1000.  2 NAD-SFC NoSubs
 8  6 15 167 23  -32.4  0.308 -9.000 -9.000 -999.  415.     80.6  0.1750  0.52  1.00  3.60  267.0  15.0  293.6  2.0  0  0.00  71.  1000.  2 NAD-SFC NoSubs
 8  6 15 167 24  -22.0  0.231 -9.000 -9.000 -999.  269.     49.9  0.2160  0.52  1.00  2.60  280.0  15.0  293.2  2.0  0  0.00  71.  1000.  3 NAD-SFC NoSubs
 8  6 16 168  1   -7.8  0.137 -9.000 -9.000 -999.  125.     29.2  0.2720  0.52  1.00  1.50  306.0  15.0  293.0  2.0  0  0.00  71.  1000.  3 NAD-SFC NoSubs
 8  6 16 168  2   -7.8  0.137 -9.000 -9.000 -999.  121.     29.1  0.2720  0.52  1.00  1.50  329.0  15.0  292.8  2.0  0  0.00  72.  1000.  3 NAD-SFC NoSubs
 8  6 16 168  3   -7.9  0.137 -9.000 -9.000 -999.  122.     28.8  0.2720  0.52  1.00  1.50  317.0  15.0  292.5  2.0  0  0.00  74.  1000.  2 NAD-SFC NoSubs
 8  6 16 168  4   -8.0  0.137 -9.000 -9.000 -999.  122.     28.7  0.2720  0.52  1.00  1.50  308.0  15.0  292.0  2.0  0  0.00  76.  1000.  2 NAD-SFC NoSubs
 8  6 16 168  5   -8.0  0.137 -9.000 -9.000 -999.  122.     28.7  0.2720  0.52  1.00  1.50  319.0  15.0  291.5  2.0  0  0.00  78.  1001.  2 NAD-SFC NoSubs
 8  6 16 168  6   -3.1  0.147 -9.000 -9.000 -999.  135.     90.6  0.2930  0.52  0.45  1.50  352.0  15.0  291.2  2.0  0  0.00  79.  1001.  2 NAD-SFC NoSubs
 8  6 16 168  7   40.7 -9.000 -9.000 -9.000  203. -999. -99999.0  0.2235  0.52  0.27  0.00    0.0  15.0  292.5  2.0  0  0.00  69.  1001.  2 NAD-SFC NoSubs
 8  6 16 168  8   86.0 -9.000 -9.000 -9.000  325. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  294.5  2.0  0  0.00  61.  1001.  2 NAD-SFC NoSubs
 8  6 16 168  9  125.6 -9.000 -9.000 -9.000  456. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  296.4  2.0  0  0.00  56.  1001.  2 NAD-SFC NoSubs
 8  6 16 168 10  157.1 -9.000 -9.000 -9.000  589. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  298.2  2.0  0  0.00  52.  1001.  2 NAD-SFC NoSubs
 8  6 16 168 11  178.9 -9.000 -9.000 -9.000  719. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  299.9  2.0  0  0.00  49.  1000.  2 NAD-SFC NoSubs
 8  6 16 168 12  189.7 -9.000 -9.000 -9.000  844. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.4  2.0  0  0.00  46.  1000.  2 NAD-SFC NoSubs
 8  6 16 168 13  190.2 -9.000 -9.000 -9.000  955. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  302.9  2.0  0  0.00  42.   999.  2 NAD-SFC NoSubs
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8  6 16 168 14  180.0  0.122  1.735  0.011 1035.  103.     -1.0 0.2930  0.52  0.19  0.50  337.0  15.0  304.1  2.0    0  0.00   37.   999.    2 NAD-SFC NoSubs
8  6 16 168 15  158.6  0.234  1.697  0.011 1098.  272.     -7.2 0.2930  0.52  0.19  1.50  353.0  15.0  304.8  2.0    0  0.00   35.   998.    2 NAD-SFC NoSubs
8  6 16 168 16  127.4 -9.000 -9.000 -9.000 1146. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0  305.0  2.0    0  0.00   34.   998.    2 NAD-SFC NoSubs
8  6 16 168 17   88.0  0.322  1.427  0.012 1177.  440.    -33.9 0.2940  0.52  0.22  2.60    8.0  15.0  304.6  2.0    0  0.00   39.   998.    2 NAD-SFC NoSubs
8  6 16 168 18   42.7  0.305  1.126  0.012 1191.  404.    -58.9 0.2940  0.52  0.28  2.60   12.0  15.0  303.9  2.0    0  0.00   49.   998.    2 NAD-SFC NoSubs
8  6 16 168 19   -2.7  0.373 -9.000 -9.000 -999.  546.   1707.7 0.2940  0.52  0.47  3.60   12.0  15.0  302.9  2.0    0  0.00   52.   999.    2 NAD-SFC NoSubs
8  6 16 168 20  -31.0  0.304 -9.000 -9.000 -999.  404.     80.3 0.2940  0.52  1.00  3.10    2.0  15.0  301.6  2.0    0  0.00   54.   999.    2 NAD-SFC NoSubs
8  6 16 168 21  -25.3  0.252 -9.000 -9.000 -999.  304.     56.1 0.2930  0.52  1.00  2.60  335.0  15.0  300.5  2.0    0  0.00   57.   999.    2 NAD-SFC NoSubs
8  6 16 168 22  -35.8  0.347 -9.000 -9.000 -999.  490.    104.1 0.2720  0.52  1.00  3.60  305.0  15.0  299.2  2.0    0  0.00   60.  1000.    2 NAD-SFC NoSubs
8  6 16 168 23  -41.2  0.397 -9.000 -9.000 -999.  600.    135.6 0.2720  0.52  1.00  4.10  303.0  15.0  297.5  2.0    0  0.00   65.  1000.    2 NAD-SFC NoSubs
8  6 16 168 24  -41.4  0.397 -9.000 -9.000 -999.  601.    135.0 0.2720  0.52  1.00  4.10  309.0  15.0  296.2  2.0    0  0.00   69.  1001.    2 NAD-SFC NoSubs
8  6 17 169  1  -37.1  0.354 -9.000 -9.000 -999.  508.    107.1 0.2930  0.52  1.00  3.60  340.0  15.0  294.9  2.0    0  0.00   73.  1001.    2 NAD-SFC NoSubs
8  6 17 169  2  -37.3  0.354 -9.000 -9.000 -999.  506.    106.6 0.2930  0.52  1.00  3.60  352.0  15.0  293.5  2.0    0  0.00   78.  1002.    2 NAD-SFC NoSubs
8  6 17 169  3  -32.0  0.303 -9.000 -9.000 -999.  402.     77.7 0.2930  0.52  1.00  3.10  354.0  15.0  292.6  2.0    0  0.00   80.  1002.    2 NAD-SFC NoSubs
8  6 17 169  4  -16.5  0.200 -9.000 -9.000 -999.  219.     43.1 0.2930  0.52  1.00  2.10  355.0  15.0  291.9  2.0    0  0.00   80.  1003.    2 NAD-SFC NoSubs
8  6 17 169  5   -8.3  0.140 -9.000 -9.000 -999.  126.     29.5 0.2930  0.52  1.00  1.50  341.0  15.0  291.4  2.0    0  0.00   81.  1003.    2 NAD-SFC NoSubs
8  6 17 169  6   -3.2  0.147 -9.000 -9.000 -999.  135.     90.1 0.2930  0.52  0.45  1.50  345.0  15.0  291.4  2.0    0  0.00   79.  1004.    2 NAD-SFC NoSubs
8  6 17 169  7   40.7  0.202  0.562  0.012  156.  218.    -18.1 0.2930  0.52  0.27  1.50  346.0  15.0  292.6  2.0    0  0.00   68.  1004.    2 NAD-SFC NoSubs
8  6 17 169  8   85.9  0.111  0.839  0.011  246.   92.     -1.4 0.2930  0.52  0.22  0.50  341.0  15.0  294.5  2.0    0  0.00   61.  1004.    2 NAD-SFC NoSubs
8  6 17 169  9  125.6 -9.000 -9.000 -9.000  328. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0  296.8  2.0    0  0.00   53.  1004.    2 NAD-SFC NoSubs
8  6 17 169 10  157.2 -9.000 -9.000 -9.000  453. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  298.8  2.0    0  0.00   48.  1003.    2 NAD-SFC NoSubs
8  6 17 169 11  179.2 -9.000 -9.000 -9.000  674. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  300.5  2.0    0  0.00   44.  1003.    2 NAD-SFC NoSubs
8  6 17 169 12  190.0  0.121  1.677  0.009  889.  101.     -1.0 0.2720  0.52  0.19  0.50  308.0  15.0  302.0  2.0    0  0.00   41.  1002.    2 NAD-SFC NoSubs
8  6 17 169 13  190.4  0.186  1.757  0.010 1019.  192.     -3.0 0.2930  0.52  0.19  1.00  333.0  15.0  303.2  2.0    0  0.00   39.  1002.    2 NAD-SFC NoSubs
8  6 17 169 14  180.1  0.238  1.768  0.010 1098.  279.     -6.7 0.2930  0.52  0.19  1.50  342.0  15.0  304.1  2.0    0  0.00   37.  1001.    2 NAD-SFC NoSubs
8  6 17 169 15  158.7  0.293  1.728  0.010 1162.  380.    -14.1 0.2930  0.52  0.19  2.10  352.0  15.0  304.8  2.0    0  0.00   35.  1001.    2 NAD-SFC NoSubs
8  6 17 169 16  127.6  0.380  1.630  0.010 1212.  561.    -38.2 0.2930  0.52  0.20  3.10  360.0  15.0  304.9  2.0    0  0.00   35.  1000.    2 NAD-SFC NoSubs
8  6 17 169 17   88.1 -9.000 -9.000 -9.000 1243. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0  304.4  2.0    0  0.00   42.  1000.    2 NAD-SFC NoSubs
8  6 17 169 18   42.9 -9.000 -9.000 -9.000 1257. -999. -99999.0 0.2235  0.52  0.28  0.00    0.0  15.0  303.8  2.0    0  0.00   49.  1001.    2 NAD-SFC NoSubs
8  6 17 169 19   -3.6  0.424 -9.000 -9.000 -999.  663.   1919.6 0.2930  0.52  0.47  4.10  351.0  15.0  302.2  2.0    0  0.00   53.  1001.    2 NAD-SFC NoSubs
8  6 17 169 20  -41.8  0.406 -9.000 -9.000 -999.  621.    142.9 0.2930  0.52  1.00  4.10  330.0  15.0  300.0  2.0    0  0.00   59.  1002.    2 NAD-SFC NoSubs
8  6 17 169 21  -35.9  0.347 -9.000 -9.000 -999.  493.    103.8 0.2720  0.52  1.00  3.60  328.0  15.0  298.5  2.0    0  0.00   62.  1002.    2 NAD-SFC NoSubs
8  6 17 169 22  -30.8  0.297 -9.000 -9.000 -999.  389.     75.7 0.2720  0.52  1.00  3.10  320.0  15.0  297.8  2.0    0  0.00   61.  1002.    2 NAD-SFC NoSubs
8  6 17 169 23  -22.2  0.231 -9.000 -9.000 -999.  268.     49.5 0.2160  0.52  1.00  2.60  297.0  15.0  297.0  2.0    0  0.00   61.  1002.    2 NAD-SFC NoSubs
8  6 17 169 24  -24.7  0.246 -9.000 -9.000 -999.  293.     54.0 0.2720  0.52  1.00  2.60  300.0  15.0  296.1  2.0    0  0.00   61.  1002.    2 NAD-SFC NoSubs
8  6 18 170  1  -24.7  0.246 -9.000 -9.000 -999.  293.     53.9 0.2720  0.52  1.00  2.60  312.0  15.0  295.4  2.0    0  0.00   60.  1003.    2 NAD-SFC NoSubs
8  6 18 170  2  -16.5  0.200 -9.000 -9.000 -999.  215.     43.3 0.2930  0.52  1.00  2.10  335.0  15.0  294.6  2.0    0  0.00   62.  1003.    2 NAD-SFC NoSubs
8  6 18 170  3   -3.9  0.101 -9.000 -9.000 -999.   81.     23.3 0.2720  0.52  1.00  1.00  328.0  15.0  293.8  2.0    0  0.00   65.  1004.    2 NAD-SFC NoSubs
8  6 18 170  4   -3.6  0.097 -9.000 -9.000 -999.   72.     22.4 0.2160  0.52  1.00  1.00  298.0  15.0  293.0  2.0    0  0.00   68.  1004.    2 NAD-SFC NoSubs
8  6 18 170  5   -7.2  0.129 -9.000 -9.000 -999.  111.     26.5 0.2160  0.52  1.00  1.50  294.0  15.0  292.2  2.0    0  0.00   70.  1005.    2 NAD-SFC NoSubs
8  6 18 170  6   -1.5  0.088 -9.000 -9.000 -999.   62.     41.5 0.2160  0.52  0.45  1.00  276.0  15.0  292.1  2.0    0  0.00   71.  1005.    2 NAD-SFC NoSubs
8  6 18 170  7   40.9  0.257  0.555  0.008  150.  313.    -37.4 0.2930  0.52  0.27  2.10  353.0  15.0  293.6  2.0    0  0.00   65.  1006.    2 NAD-SFC NoSubs
8  6 18 170  8   86.2 -9.000 -9.000 -9.000  262. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0  295.5  2.0    0  0.00   59.  1005.    2 NAD-SFC NoSubs
8  6 18 170  9  125.7 -9.000 -9.000 -9.000  374. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0  297.2  2.0    0  0.00   53.  1005.    2 NAD-SFC NoSubs
8  6 18 170 10  157.3 -9.000 -9.000 -9.000  547. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  299.1  2.0    0  0.00   46.  1005.    2 NAD-SFC NoSubs
8  6 18 170 11  179.2 -9.000 -9.000 -9.000  727. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  300.8  2.0    0  0.00   41.  1004.    2 NAD-SFC NoSubs
8  6 18 170 12  190.1  0.115  1.696  0.005  919.   94.     -1.0 0.2160  0.52  0.19  0.50  286.0  15.0  302.2  2.0    0  0.00   36.  1003.    2 NAD-SFC NoSubs
8  6 18 170 13  190.6  0.183  1.809  0.008 1112.  188.     -2.9 0.2720  0.52  0.19  1.00  306.0  15.0  303.5  2.0    0  0.00   32.  1002.    2 NAD-SFC NoSubs
8  6 18 170 14  180.2  0.234  1.860  0.010 1279.  272.     -6.4 0.2720  0.52  0.19  1.50  322.0  15.0  304.2  2.0    0  0.00   30.  1002.    2 NAD-SFC NoSubs
8  6 18 170 15  158.8  0.340  1.823  0.010 1365.  476.    -22.2 0.2930  0.52  0.19  2.60  336.0  15.0  304.6  2.0    0  0.00   29.  1001.    2 NAD-SFC NoSubs
8  6 18 170 16  127.7  0.380  1.711  0.010 1401.  561.    -38.2 0.2930  0.52  0.20  3.10  350.0  15.0  304.9  2.0    0  0.00   27.  1000.    2 NAD-SFC NoSubs
8  6 18 170 17   88.2  0.368  1.521  0.010 1425.  537.    -50.6 0.2930  0.52  0.22  3.10  355.0  15.0  304.2  2.0    0  0.00   33.  1000.    2 NAD-SFC NoSubs
8  6 18 170 18   42.9  0.305  1.200  0.010 1435.  406.    -58.7 0.2930  0.52  0.28  2.60  351.0  15.0  303.4  2.0    0  0.00   41.  1000.    2 NAD-SFC NoSubs
8  6 18 170 19   -1.4  0.321 -9.000 -9.000 -999.  436.   2052.9 0.2930  0.52  0.46  3.10  344.0  15.0  302.8  2.0    0  0.00   42.  1001.    2 NAD-SFC NoSubs
8  6 18 170 20  -35.6  0.347 -9.000 -9.000 -999.  490.    104.8 0.2720  0.52  1.00  3.60  328.0  15.0  301.1  2.0    0  0.00   46.  1001.    2 NAD-SFC NoSubs
8  6 18 170 21  -35.7  0.347 -9.000 -9.000 -999.  490.    104.2 0.2720  0.52  1.00  3.60  326.0  15.0  299.6  2.0    0  0.00   50.  1001.    2 NAD-SFC NoSubs
8  6 18 170 22  -24.6  0.246 -9.000 -9.000 -999.  298.     54.2 0.2720  0.52  1.00  2.60  326.0  15.0  298.4  2.0    0  0.00   52.  1001.    2 NAD-SFC NoSubs
8  6 18 170 23  -24.6  0.246 -9.000 -9.000 -999.  293.     54.1 0.2720  0.52  1.00  2.60  324.0  15.0  297.2  2.0    0  0.00   54.  1001.    2 NAD-SFC NoSubs
8  6 18 170 24  -30.9  0.297 -9.000 -9.000 -999.  388.     75.3 0.2720  0.52  1.00  3.10  308.0  15.0  296.2  2.0    0  0.00   56.  1001.    2 NAD-SFC NoSubs
8  6 19 171  1  -31.0  0.297 -9.000 -9.000 -999.  388.     75.1 0.2720  0.52  1.00  3.10  321.0  15.0  295.4  2.0    0  0.00   57.  1001.    2 NAD-SFC NoSubs
8  6 19 171  2  -15.8  0.195 -9.000 -9.000 -999.  212.     42.0 0.2720  0.52  1.00  2.10  322.0  15.0  294.5  2.0    0  0.00   59.  1001.    2 NAD-SFC NoSubs
8  6 19 171  3   -3.9  0.101 -9.000 -9.000 -999.   81.     23.3 0.2720  0.52  1.00  1.00  311.0  15.0  293.8  2.0    0  0.00   62.  1001.    2 NAD-SFC NoSubs
8  6 19 171  4   -3.9  0.101 -9.000 -9.000 -999.   77.     23.3 0.2720  0.52  1.00  1.00  301.0  15.0  293.0  2.0    0  0.00   65.  1002.    2 NAD-SFC NoSubs
8  6 19 171  5   -7.2  0.129 -9.000 -9.000 -999.  111.     26.5 0.2160  0.52  1.00  1.50  298.0  15.0  292.2  2.0    0  0.00   67.  1002.    2 NAD-SFC NoSubs
8  6 19 171  6   -3.1  0.144 -9.000 -9.000 -999.  131.     86.3 0.2720  0.52  0.45  1.50  301.0  15.0  292.1  2.0    0  0.00   68.  1003.    2 NAD-SFC NoSubs
8  6 19 171  7   40.7  0.253  0.549  0.008  145.  306.    -35.6 0.2720  0.52  0.27  2.10  327.0  15.0  293.6  2.0    0  0.00   61.  1003.    2 NAD-SFC NoSubs
8  6 19 171  8   86.0 -9.000 -9.000 -9.000  250. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0  295.4  2.0    0  0.00   55.  1003.    2 NAD-SFC NoSubs
8  6 19 171  9  125.7 -9.000 -9.000 -9.000  373. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0  297.5  2.0    0  0.00   46.  1002.    2 NAD-SFC NoSubs
8  6 19 171 10  157.3 -9.000 -9.000 -9.000  547. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  299.2  2.0    0  0.00   42.  1002.    2 NAD-SFC NoSubs
8  6 19 171 11  179.5 -9.000 -9.000 -9.000  733. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  301.4  2.0    0  0.00   36.  1001.    2 NAD-SFC NoSubs
8  6 19 171 12  190.6 -9.000 -9.000 -9.000  935. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  303.1  2.0    0  0.00   32.  1000.    2 NAD-SFC NoSubs
8  6 19 171 13  191.2 -9.000 -9.000 -9.000 1021. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  304.6  2.0    0  0.00   29.   999.    2 NAD-SFC NoSubs
8  6 19 171 14  181.1 -9.000 -9.000 -9.000 1076. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  305.6  2.0    0  0.00   28.   999.    2 NAD-SFC NoSubs
8  6 19 171 15  159.8  0.182  1.714  0.011 1123.  186.     -3.3 0.2930  0.52  0.19  1.00  344.0  15.0  306.2  2.0    0  0.00   27.   998.    2 NAD-SFC NoSubs
8  6 19 171 16  128.8  0.229  1.612  0.011 1159.  263.     -8.3 0.2930  0.52  0.20  1.50  356.0  15.0  306.5  2.0    0  0.00   27.   998.    2 NAD-SFC NoSubs
8  6 19 171 17   89.3 -9.000 -9.000 -9.000 1183. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0  305.9  2.0    0  0.00   32.   997.    2 NAD-SFC NoSubs
8  6 19 171 18   44.0  0.305  1.138  0.010 1193.  405.    -57.6 0.2940  0.52  0.28  2.60   11.0  15.0  305.0  2.0    0  0.00   42.   997.    2 NAD-SFC NoSubs
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 8  6 19 171 19    0.2  0.316  0.193  0.010 1192.  426.  -8888.0  0.2940  0.52  0.46  3.10   6.0  15.0 304.0  2.0   0  0.00  44.   998.    2 NAD-SFC NoSubs
 8  6 19 171 20   -8.1  0.140 -9.000 -9.000 -999.  154.     30.1  0.2940  0.52  1.00  1.50   6.0  15.0 302.6  2.0   0  0.00  47.   998.    2 NAD-SFC NoSubs
 8  6 19 171 21   -1.6  0.082 -9.000 -9.000 -999.   59.     31.5  0.2720  0.52  1.00  0.50 328.0  15.0 301.1  2.0   0  0.00  52.   998.    2 NAD-SFC NoSubs
 8  6 19 171 22   -1.5  0.080 -9.000 -9.000 -999.   54.     31.1  0.2160  0.52  1.00  0.50 291.0  15.0 299.8  2.0   0  0.00  57.   999.    2 NAD-SFC NoSubs
 8  6 19 171 23   -3.8  0.100 -9.000 -9.000 -999.   76.     23.3  0.2720  0.52  1.00  1.00 316.0  15.0 298.8  2.0   0  0.00  61.   999.    2 NAD-SFC NoSubs
 8  6 19 171 24   -4.0  0.102 -9.000 -9.000 -999.   78.     23.7  0.2930  0.52  1.00  1.00 336.0  15.0 297.9  2.0   0  0.00  63.   999.    2 NAD-SFC NoSubs
 8  6 20 172  1   -8.2  0.140 -9.000 -9.000 -999.  125.     29.8  0.2930  0.52  1.00  1.50 337.0  15.0 297.2  2.0   0  0.00  65.   999.    2 NAD-SFC NoSubs
 8  6 20 172  2  -16.4  0.200 -9.000 -9.000 -999.  214.     43.5  0.2930  0.52  1.00  2.10 330.0  15.0 296.5  2.0   0  0.00  66.   999.    2 NAD-SFC NoSubs
 8  6 20 172  3  -24.6  0.246 -9.000 -9.000 -999.  293.     54.0  0.2720  0.52  1.00  2.60 327.0  15.0 295.8  2.0   0  0.00  68.   999.    2 NAD-SFC NoSubs
 8  6 20 172  4  -31.7  0.303 -9.000 -9.000 -999.  400.     78.3  0.2930  0.52  1.00  3.10 334.0  15.0 294.8  2.0   0  0.00  71.  1000.    2 NAD-SFC NoSubs
 8  6 20 172  5  -25.6  0.252 -9.000 -9.000 -999.  304.     55.4  0.2930  0.52  1.00  2.60 332.0  15.0 294.0  2.0   0  0.00  73.  1000.    2 NAD-SFC NoSubs
 8  6 20 172  6   -2.8  0.144 -9.000 -9.000 -999.  137.     96.7  0.2720  0.52  0.45  1.50 307.0  15.0 293.8  2.0   0  0.00  74.  1001.    2 NAD-SFC NoSubs
 8  6 20 172  7   41.1  0.199  0.510  0.009  115.  213.    -17.1  0.2720  0.52  0.27  1.50 326.0  15.0 295.1  2.0   0  0.00  66.  1002.    2 NAD-SFC NoSubs
 8  6 20 172  8   86.6 -9.000 -9.000 -9.000  192. -999. -99999.0  0.2235  0.52  0.22  0.00   0.0  15.0 297.2  2.0   0  0.00  58.  1002.    2 NAD-SFC NoSubs
 8  6 20 172  9  126.6 -9.000 -9.000 -9.000  337. -999. -99999.0  0.2235  0.52  0.20  0.00   0.0  15.0 299.9  2.0   0  0.00  49.  1001.    2 NAD-SFC NoSubs
 8  6 20 172 10  158.5 -9.000 -9.000 -9.000  560. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 302.0  2.0   0  0.00  41.  1001.    2 NAD-SFC NoSubs
 8  6 20 172 11  180.6 -9.000 -9.000 -9.000  720. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 303.8  2.0   0  0.00  37.  1001.    2 NAD-SFC NoSubs
 8  6 20 172 12  191.7 -9.000 -9.000 -9.000  821. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 305.2  2.0   0  0.00  33.  1000.    2 NAD-SFC NoSubs
 8  6 20 172 13  192.3 -9.000 -9.000 -9.000  911. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 306.6  2.0   0  0.00  30.  1000.    2 NAD-SFC NoSubs
 8  6 20 172 14  182.3 -9.000 -9.000 -9.000  996. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 307.6  2.0   0  0.00  27.   999.    2 NAD-SFC NoSubs
 8  6 20 172 15  161.1  0.116  1.698  0.006 1084.   95.     -1.0  0.2470  0.52  0.19  0.50  51.0  15.0 308.2  2.0   0  0.00  26.   999.    2 NAD-SFC NoSubs
 8  6 20 172 16  130.0  0.221  1.612  0.005 1150.  249.     -7.4  0.2470  0.52  0.20  1.50  32.0  15.0 308.4  2.0   0  0.00  26.   999.    2 NAD-SFC NoSubs
 8  6 20 172 17   90.6  0.267  1.447  0.005 1192.  331.    -18.7  0.2470  0.52  0.22  2.10  31.0  15.0 307.9  2.0   0  0.00  31.   999.    2 NAD-SFC NoSubs
 8  6 20 172 18   45.4  0.306  1.156  0.005 1212.  406.    -56.2  0.2940  0.52  0.28  2.60  28.0  15.0 307.2  2.0   0  0.00  38.   999.    2 NAD-SFC NoSubs
 8  6 20 172 19    1.6  0.219  0.377  0.005 1210.  249.   -593.0  0.2940  0.52  0.46  2.10  28.0  15.0 306.2  2.0   0  0.00  40.   999.    2 NAD-SFC NoSubs
 8  6 20 172 20   -1.6  0.083 -9.000 -9.000 -999.   74.     31.6  0.2940  0.52  1.00  0.50  20.0  15.0 304.8  2.0   0  0.00  44.   999.    2 NAD-SFC NoSubs
 8  6 20 172 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00   0.0  15.0 303.1  2.0   0  0.00  50.   999.    2 NAD-SFC NoSubs
 8  6 20 172 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00   0.0  15.0 301.5  2.0   0  0.00  57.   999.    2 NAD-SFC NoSubs
 8  6 20 172 23   -1.5  0.081 -9.000 -9.000 -999.   56.     31.4  0.2470  0.52  1.00  0.50  58.0  15.0 300.1  2.0   0  0.00  62.   999.    2 NAD-SFC NoSubs
 8  6 20 172 24   -3.5  0.096 -9.000 -9.000 -999.   71.     22.3  0.2090  0.52  1.00  1.00  78.0  15.0 299.1  2.0   0  0.00  65.   999.    2 NAD-SFC NoSubs
 8  6 21 173  1   -3.5  0.096 -9.000 -9.000 -999.   71.     22.3  0.2090  0.52  1.00  1.00  77.0  15.0 298.4  2.0   0  0.00  64.   999.    2 NAD-SFC NoSubs
 8  6 21 173  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00   0.0  15.0 297.8  2.0   0  0.00  65.   999.    2 NAD-SFC NoSubs
 8  6 21 173  3   -1.5  0.080 -9.000 -9.000 -999.   55.     31.2  0.2160  0.52  1.00  0.50 295.0  15.0 297.1  2.0   0  0.00  67.  1000.    2 NAD-SFC NoSubs
 8  6 21 173  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00   0.0  15.0 296.5  2.0   0  0.00  68.  1000.    2 NAD-SFC NoSubs
 8  6 21 173  5   -1.4  0.079 -9.000 -9.000 -999.   54.     31.0  0.1950  0.52  1.00  0.50 238.0  15.0 296.1  2.0   0  0.00  68.  1000.    2 NAD-SFC NoSubs
 8  6 21 173  6   -1.1  0.084 -9.000 -9.000 -999.   58.     46.1  0.1750  0.52  0.45  1.00 254.0  15.0 296.2  2.0   0  0.00  66.  1001.    2 NAD-SFC NoSubs
 8  6 21 173  7   42.3  0.094  0.480  0.009   93.   69.     -1.7  0.2160  0.52  0.27  0.50 283.0  15.0 298.5  2.0   0  0.00  59.  1001.    2 NAD-SFC NoSubs
 8  6 21 173  8   87.9 -9.000 -9.000 -9.000  250. -999. -99999.0  0.2235  0.52  0.22  0.00   0.0  15.0 300.6  2.0   0  0.00  55.  1001.    2 NAD-SFC NoSubs
 8  6 21 173  9  127.9 -9.000 -9.000 -9.000  450. -999. -99999.0  0.2235  0.52  0.20  0.00   0.0  15.0 302.9  2.0   0  0.00  47.  1001.    2 NAD-SFC NoSubs
 8  6 21 173 10  159.9 -9.000 -9.000 -9.000  682. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 305.0  2.0   0  0.00  40.  1000.    2 NAD-SFC NoSubs
 8  6 21 173 11  182.1 -9.000 -9.000 -9.000  825. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 306.5  2.0   0  0.00  36.  1000.    2 NAD-SFC NoSubs
 8  6 21 173 12  193.2 -9.000 -9.000 -9.000  955. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 307.9  2.0   0  0.00  32.  1000.    2 NAD-SFC NoSubs
 8  6 21 173 13  193.8  0.124  1.806  0.005 1085.  104.     -1.0  0.2940  0.52  0.19  0.50  23.0  15.0 309.1  2.0   0  0.00  29.   999.    2 NAD-SFC NoSubs
 8  6 21 173 14  183.9  0.118  1.834  0.005 1198.   97.     -1.0  0.2470  0.52  0.19  0.50  31.0  15.0 310.1  2.0   0  0.00  27.   999.    2 NAD-SFC NoSubs
 8  6 21 173 15  162.8  0.112  1.806  0.005 1290.   90.     -1.0  0.2090  0.52  0.19  0.50  65.0  15.0 310.8  2.0   0  0.00  26.   998.    2 NAD-SFC NoSubs
 8  6 21 173 16  131.8  0.165  1.717  0.005 1370.  161.     -3.0  0.2090  0.52  0.20  1.00  74.0  15.0 310.9  2.0   0  0.00  27.   998.    2 NAD-SFC NoSubs
 8  6 21 173 17   92.7  0.163  1.554  0.005 1443.  159.     -4.2  0.2470  0.52  0.22  1.00  50.0  15.0 310.9  2.0   0  0.00  28.   998.    2 NAD-SFC NoSubs
 8  6 21 173 18   47.8  0.244  1.255  0.005 1477.  290.    -27.2  0.2160  0.52  0.28  2.10 297.0  15.0 310.8  2.0   0  0.00  34.   999.    2 NAD-SFC NoSubs
 8  6 21 173 19    2.6  0.483  0.474  0.005 1467.  805.  -3878.0  0.2160  0.52  0.46  5.10 293.0  15.0 307.8  2.0   0  0.00  42.   999.    2 NAD-SFC NoSubs
 8  6 21 173 20  -45.1  0.443 -9.000 -9.000 -999.  710.    172.1  0.1750  0.52  1.00  5.10 267.0  15.0 303.2  2.0   0  0.00  50.  1000.    2 NAD-SFC NoSubs
 8  6 21 173 21  -45.5  0.443 -9.000 -9.000 -999.  708.    170.5  0.1750  0.52  1.00  5.10 259.0  15.0 300.4  2.0   0  0.00  55.  1000.    2 NAD-SFC NoSubs
 8  6 21 173 22  -43.4  0.420 -9.000 -9.000 -999.  654.    152.3  0.2160  0.52  1.00  4.60 272.0  15.0 298.8  2.0   0  0.00  56.  1000.    2 NAD-SFC NoSubs
 8  6 21 173 23  -33.7  0.325 -9.000 -9.000 -999.  451.     91.3  0.2160  0.52  1.00  3.60 294.0  15.0 298.2  2.0   0  0.00  57.  1001.    2 NAD-SFC NoSubs
 8  6 21 173 24  -15.8  0.195 -9.000 -9.000 -999.  218.     42.3  0.2720  0.52  1.00  2.10 318.0  15.0 298.1  2.0   0  0.00  58.  1002.    2 NAD-SFC NoSubs
 8  6 22 174  1   -1.6  0.082 -9.000 -9.000 -999.   67.     31.5  0.2940  0.52  1.00  0.50   5.0  15.0 297.8  2.0   0  0.00  60.  1002.    3 NAD-SFC NoSubs
 8  6 22 174  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00   0.0  15.0 297.2  2.0   0  0.00  61.  1003.    3 NAD-SFC NoSubs
 8  6 22 174  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00   0.0  15.0 296.8  2.0   0  0.00  62.  1003.    3 NAD-SFC NoSubs
 8  6 22 174  4   -1.5  0.081 -9.000 -9.000 -999.   55.     31.3  0.2470  0.52  1.00  0.50  33.0  15.0 296.2  2.0   0  0.00  63.  1003.    3 NAD-SFC NoSubs
 8  6 22 174  5   -1.6  0.083 -9.000 -9.000 -999.   57.     31.6  0.2940  0.52  1.00  0.50  10.0  15.0 295.5  2.0   0  0.00  65.  1004.    3 NAD-SFC NoSubs
 8  6 22 174  6   -1.6  0.096 -9.000 -9.000 -999.   72.     50.8  0.2930  0.52  0.46  1.00 348.0  15.0 295.1  2.0   0  0.00  67.  1004.    2 NAD-SFC NoSubs
 8  6 22 174  7   41.1  0.202  0.655  0.011  245.  218.    -18.0  0.2930  0.52  0.27  1.50 352.0  15.0 295.9  2.0   0  0.00  58.  1004.    2 NAD-SFC NoSubs
 8  6 22 174  8   86.4 -9.000 -9.000 -9.000  338. -999. -99999.0  0.2235  0.52  0.22  0.00   0.0  15.0 297.5  2.0   0  0.00  54.  1004.    2 NAD-SFC NoSubs
 8  6 22 174  9  126.2 -9.000 -9.000 -9.000  458. -999. -99999.0  0.2235  0.52  0.20  0.00   0.0  15.0 299.4  2.0   0  0.00  48.  1004.    2 NAD-SFC NoSubs
 8  6 22 174 10  157.8 -9.000 -9.000 -9.000  591. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 301.0  2.0   0  0.00  45.  1003.    2 NAD-SFC NoSubs
 8  6 22 174 11  180.0 -9.000 -9.000 -9.000  724. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 302.8  2.0   0  0.00  42.  1003.    2 NAD-SFC NoSubs
 8  6 22 174 12  191.1 -9.000 -9.000 -9.000  853. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 304.2  2.0   0  0.00  40.  1002.    2 NAD-SFC NoSubs
 8  6 22 174 13  191.8  0.121  1.731  0.007  967.  102.     -1.0  0.2720  0.52  0.19  0.50 324.0  15.0 305.6  2.0   0  0.00  37.  1001.    2 NAD-SFC NoSubs
 8  6 22 174 14  181.9  0.185  1.773  0.007 1096.  191.     -3.1  0.2930  0.52  0.19  1.00 360.0  15.0 306.8  2.0   0  0.00  34.  1001.    2 NAD-SFC NoSubs
 8  6 22 174 15  160.7 -9.000 -9.000 -9.000 1200. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 307.2  2.0   0  0.00  32.  1000.    2 NAD-SFC NoSubs
 8  6 22 174 16  129.5 -9.000 -9.000 -9.000 1276. -999. -99999.0  0.2235  0.52  0.20  0.00   0.0  15.0 307.1  2.0   0  0.00  33.  1000.    2 NAD-SFC NoSubs
 8  6 22 174 17   89.9 -9.000 -9.000 -9.000 1323. -999. -99999.0  0.2235  0.52  0.22  0.00   0.0  15.0 306.1  2.0   0  0.00  44.  1000.    2 NAD-SFC NoSubs
 8  6 22 174 18   44.6  0.398  1.189  0.008 1344.  602.   -125.6  0.2930  0.52  0.28  3.60 351.0  15.0 305.2  2.0   0  0.00  52.  1000.    2 NAD-SFC NoSubs
 8  6 22 174 19    0.5  0.417  0.262  0.008 1341.  646.  -8888.0  0.2930  0.52  0.46  4.10 334.0  15.0 303.8  2.0   0  0.00  54.  1000.    2 NAD-SFC NoSubs
 8  6 22 174 20  -40.6  0.397 -9.000 -9.000 -999.  601.    137.8  0.2720  0.52  1.00  4.10 323.0  15.0 302.0  2.0   0  0.00  57.  1000.    2 NAD-SFC NoSubs
 8  6 22 174 21  -38.3  0.373 -9.000 -9.000 -999.  547.    120.5  0.2160  0.52  1.00  4.10 298.0  15.0 300.2  2.0   0  0.00  62.  1001.    2 NAD-SFC NoSubs
 8  6 22 174 22  -38.5  0.373 -9.000 -9.000 -999.  546.    119.9  0.2160  0.52  1.00  4.10 281.0  15.0 298.6  2.0   0  0.00  67.  1001.    2 NAD-SFC NoSubs
 8  6 22 174 23  -33.8  0.325 -9.000 -9.000 -999.  447.     91.0  0.2160  0.52  1.00  3.60 281.0  15.0 297.4  2.0   0  0.00  68.  1001.    2 NAD-SFC NoSubs
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 8  6 22 174 24  -33.0  0.326 -9.000 -9.000 -999.  446.     93.2  0.2160  0.52  1.00  3.60  298.0  15.0  296.5  2.0   0  0.00   69.  1001.    3 NAD-SFC NoSubs
 8  6 23 175  1  -30.9  0.303 -9.000 -9.000 -999.  401.     80.7  0.2930  0.52  1.00  3.10  334.0  15.0  295.6  2.0   0  0.00   71.  1002.    3 NAD-SFC NoSubs
 8  6 23 175  2  -25.3  0.252 -9.000 -9.000 -999.  304.     56.3  0.2930  0.52  1.00  2.60  358.0  15.0  294.9  2.0   0  0.00   71.  1002.    3 NAD-SFC NoSubs
 8  6 23 175  3   -7.5  0.133 -9.000 -9.000 -999.  125.     28.2  0.2470  0.52  1.00  1.50   32.0  15.0  294.2  2.0   0  0.00   72.  1002.    3 NAD-SFC NoSubs
 8  6 23 175  4   -7.5  0.133 -9.000 -9.000 -999.  117.     28.2  0.2470  0.52  1.00  1.50   41.0  15.0  293.8  2.0   0  0.00   73.  1003.    3 NAD-SFC NoSubs
 8  6 23 175  5   -7.5  0.133 -9.000 -9.000 -999.  117.     28.2  0.2470  0.52  1.00  1.50   33.0  15.0  293.1  2.0   0  0.00   73.  1003.    3 NAD-SFC NoSubs
 8  6 23 175  6   -2.2  0.148 -9.000 -9.000 -999.  137.    131.3  0.2940  0.52  0.46  1.50    7.0  15.0  292.9  2.0   0  0.00   72.  1003.    3 NAD-SFC NoSubs
 8  6 23 175  7   41.3  0.202  0.657  0.009  245.  218.    -17.9  0.2930  0.52  0.27  1.50  355.0  15.0  293.9  2.0   0  0.00   61.  1003.    3 NAD-SFC NoSubs
 8  6 23 175  8   86.2  0.165  0.951  0.008  358.  162.     -4.7  0.2720  0.52  0.22  1.00  312.0  15.0  295.6  2.0   0  0.00   54.  1003.    3 NAD-SFC NoSubs
 8  6 23 175  9  125.4 -9.000 -9.000 -9.000  505. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  297.1  2.0   0  0.00   50.  1002.    3 NAD-SFC NoSubs
 8  6 23 175 10  156.7 -9.000 -9.000 -9.000  654. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  298.8  2.0   0  0.00   46.  1001.    2 NAD-SFC NoSubs
 8  6 23 175 11  178.7 -9.000 -9.000 -9.000  782. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  300.2  2.0   0  0.00   44.  1001.    2 NAD-SFC NoSubs
 8  6 23 175 12  189.8 -9.000 -9.000 -9.000  899. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.8  2.0   0  0.00   40.  1000.    2 NAD-SFC NoSubs
 8  6 23 175 13  190.4 -9.000 -9.000 -9.000 1011. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  302.9  2.0   0  0.00   36.   999.    2 NAD-SFC NoSubs
 8  6 23 175 14  180.3  0.123  1.783  0.008 1121.  103.     -1.0  0.2940  0.52  0.19  0.50   14.0  15.0  303.8  2.0   0  0.00   34.   999.    2 NAD-SFC NoSubs
 8  6 23 175 15  159.1  0.235  1.755  0.009 1211.  273.     -7.2  0.2940  0.52  0.19  1.50    9.0  15.0  304.2  2.0   0  0.00   33.   998.    2 NAD-SFC NoSubs
 8  6 23 175 16  127.9  0.333  1.661  0.009 1277.  462.    -25.8  0.2940  0.52  0.20  2.60   16.0  15.0  304.0  2.0   0  0.00   30.   998.    2 NAD-SFC NoSubs
 8  6 23 175 17   88.6  0.369  1.486  0.009 1319.  537.    -50.4  0.2940  0.52  0.22  3.10   18.0  15.0  303.5  2.0   0  0.00   35.   998.    2 NAD-SFC NoSubs
 8  6 23 175 18   43.4  0.305  1.177  0.009 1337.  407.    -58.2  0.2940  0.52  0.28  2.60   19.0  15.0  302.8  2.0   0  0.00   45.   999.    2 NAD-SFC NoSubs
 8  6 23 175 19   -0.6  0.323 -9.000 -9.000 -999.  440.   5020.6  0.2940  0.52  0.46  3.10    6.0  15.0  302.0  2.0   0  0.00   46.   999.    2 NAD-SFC NoSubs
 8  6 23 175 20  -24.4  0.246 -9.000 -9.000 -999.  296.     54.5  0.2720  0.52  1.00  2.60  329.0  15.0  300.9  2.0   0  0.00   48.   999.    2 NAD-SFC NoSubs
 8  6 23 175 21  -48.3  0.468 -9.000 -9.000 -999.  767.    188.8  0.2160  0.52  1.00  5.10  271.0  15.0  298.6  2.0   0  0.00   56.  1000.    2 NAD-SFC NoSubs
 8  6 23 175 22  -46.3  0.443 -9.000 -9.000 -999.  708.    167.3  0.1750  0.52  1.00  5.10  258.0  15.0  295.0  2.0   0  0.00   67.  1000.    2 NAD-SFC NoSubs
 8  6 23 175 23  -37.1  0.353 -9.000 -9.000 -999.  509.    105.7  0.1750  0.52  1.00  4.10  266.0  15.0  293.6  2.0   0  0.00   69.  1000.    2 NAD-SFC NoSubs
 8  6 23 175 24  -29.2  0.278 -9.000 -9.000 -999.  355.     65.5  0.2160  0.52  1.00  3.10  273.0  15.0  293.2  2.0   0  0.00   70.  1000.    2 NAD-SFC NoSubs
 8  6 24 176  1  -22.0  0.231 -9.000 -9.000 -999.  267.     49.8  0.2160  0.52  1.00  2.60  273.0  15.0  293.0  2.0   0  0.00   69.  1000.    3 NAD-SFC NoSubs
 8  6 24 176  2  -14.1  0.183 -9.000 -9.000 -999.  189.     38.8  0.2160  0.52  1.00  2.10  298.0  15.0  292.8  2.0   0  0.00   69.  1000.    3 NAD-SFC NoSubs
 8  6 24 176  3   -3.8  0.100 -9.000 -9.000 -999.   78.     23.3  0.2720  0.52  1.00  1.00  307.0  15.0  292.4  2.0   0  0.00   71.  1001.    3 NAD-SFC NoSubs
 8  6 24 176  4   -1.6  0.082 -9.000 -9.000 -999.   57.     31.6  0.2720  0.52  1.00  0.50  329.0  15.0  291.9  2.0   0  0.00   73.  1001.    3 NAD-SFC NoSubs
 8  6 24 176  5   -1.6  0.083 -9.000 -9.000 -999.   58.     31.7  0.2930  0.52  1.00  0.50  337.0  15.0  291.4  2.0   0  0.00   75.  1001.    3 NAD-SFC NoSubs
 8  6 24 176  6   19.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.46  0.00    0.0  15.0  291.2  2.0   0  0.00   77.  1002.    2 NAD-SFC NoSubs
 8  6 24 176  7   39.6  0.153  0.635  0.009  231.  144.     -8.1  0.2930  0.52  0.28  1.00  359.0  15.0  292.8  2.0   0  0.00   67.  1002.    2 NAD-SFC NoSubs
 8  6 24 176  8   85.0 -9.000 -9.000 -9.000  334. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  294.6  2.0   0  0.00   60.  1002.    2 NAD-SFC NoSubs
 8  6 24 176  9  124.6 -9.000 -9.000 -9.000  479. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  296.2  2.0   0  0.00   54.  1002.    2 NAD-SFC NoSubs
 8  6 24 176 10  156.3 -9.000 -9.000 -9.000  648. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  298.1  2.0   0  0.00   49.  1001.    2 NAD-SFC NoSubs
 8  6 24 176 11  178.5  0.114  1.608  0.006  833.   93.     -1.0  0.2160  0.52  0.19  0.50  276.0  15.0  299.8  2.0   0  0.00   43.  1001.    2 NAD-SFC NoSubs
 8  6 24 176 12  189.6  0.115  1.741  0.008  995.   94.     -1.0  0.2160  0.52  0.19  0.50  286.0  15.0  301.2  2.0   0  0.00   39.  1000.    2 NAD-SFC NoSubs
 8  6 24 176 13  190.1 -9.000 -9.000 -9.000 1129. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  302.4  2.0   0  0.00   36.   999.    2 NAD-SFC NoSubs
 8  6 24 176 14  180.1 -9.000 -9.000 -9.000 1242. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  303.2  2.0   0  0.00   34.   999.    2 NAD-SFC NoSubs
 8  6 24 176 15  159.0  0.182  1.813  0.011 1336.  186.     -3.4  0.2940  0.52  0.19  1.00   16.0  15.0  304.0  2.0   0  0.00   33.   998.    2 NAD-SFC NoSubs
 8  6 24 176 16  128.1  0.287  1.703  0.011 1374.  369.    -16.4  0.2940  0.52  0.20  2.10   16.0  15.0  304.2  2.0   0  0.00   33.   998.    2 NAD-SFC NoSubs
 8  6 24 176 17   89.0  0.323  1.517  0.011 1398.  440.    -33.6  0.2940  0.52  0.22  2.60   18.0  15.0  304.0  2.0   0  0.00   36.   998.    2 NAD-SFC NoSubs
 8  6 24 176 18   43.8  0.305  1.201  0.011 1408.  405.    -57.8  0.2940  0.52  0.28  2.60   22.0  15.0  303.2  2.0   0  0.00   46.   998.    2 NAD-SFC NoSubs
 8  6 24 176 19    0.1  0.315  0.150  0.011 1407.  425. -8888.0  0.2940  0.52  0.46  3.10   16.0  15.0  302.5  2.0   0  0.00   49.   999.    2 NAD-SFC NoSubs
 8  6 24 176 20  -25.0  0.252 -9.000 -9.000 -999.  305.     57.0  0.2930  0.52  1.00  2.60  359.0  15.0  301.2  2.0   0  0.00   52.   999.    3 NAD-SFC NoSubs
 8  6 24 176 21  -27.9  0.278 -9.000 -9.000 -999.  352.     69.0  0.2160  0.52  1.00  3.10  285.0  15.0  300.0  2.0   0  0.00   56.   999.    3 NAD-SFC NoSubs
 8  6 24 176 22  -42.6  0.420 -9.000 -9.000 -999.  654.    155.3  0.2160  0.52  1.00  4.60  272.0  15.0  296.5  2.0   0  0.00   66.   999.    3 NAD-SFC NoSubs
 8  6 24 176 23  -33.1  0.325 -9.000 -9.000 -999.  451.     92.8  0.2160  0.52  1.00  3.60  271.0  15.0  295.2  2.0   0  0.00   67.   999.    3 NAD-SFC NoSubs
 8  6 24 176 24  -26.8  0.263 -9.000 -9.000 -999.  326.     60.7  0.1750  0.52  1.00  3.10  262.0  15.0  294.8  2.0   0  0.00   67.   999.    3 NAD-SFC NoSubs
 8  6 25 177  1  -21.9  0.231 -9.000 -9.000 -999.  266.     50.0  0.2160  0.52  1.00  2.60  292.0  15.0  294.6  2.0   0  0.00   67.  1000.    3 NAD-SFC NoSubs
 8  6 25 177  2  -31.0  0.303 -9.000 -9.000 -999.  401.     80.2  0.2930  0.52  1.00  3.10  335.0  15.0  294.1  2.0   0  0.00   70.  1000.    3 NAD-SFC NoSubs
 8  6 25 177  3  -31.1  0.303 -9.000 -9.000 -999.  401.     80.0  0.2930  0.52  1.00  3.10  343.0  15.0  293.2  2.0   0  0.00   74.  1001.    3 NAD-SFC NoSubs
 8  6 25 177  4  -25.4  0.252 -9.000 -9.000 -999.  304.     56.1  0.2930  0.52  1.00  2.60  355.0  15.0  292.5  2.0   0  0.00   78.  1001.    3 NAD-SFC NoSubs
 8  6 25 177  5  -16.3  0.200 -9.000 -9.000 -999.  215.     43.7  0.2930  0.52  1.00  2.10  349.0  15.0  291.8  2.0   0  0.00   80.  1002.    3 NAD-SFC NoSubs
 8  6 25 177  6   -2.8  0.148 -9.000 -9.000 -999.  137.    102.4  0.2940  0.52  0.46  1.50    3.0  15.0  291.8  2.0   0  0.00   80.  1002.    3 NAD-SFC NoSubs
 8  6 25 177  7   40.5  0.257  0.586  0.008  177.  313.    -37.5  0.2930  0.52  0.28  2.10  346.0  15.0  292.9  2.0   0  0.00   70.  1002.    3 NAD-SFC NoSubs
 8  6 25 177  8   84.8  0.110  0.880  0.008  287.  106.     -1.4  0.2930  0.52  0.22  0.50  336.0  15.0  294.8  2.0   0  0.00   63.  1002.    2 NAD-SFC NoSubs
 8  6 25 177  9  124.6 -9.000 -9.000 -9.000  397. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  296.6  2.0   0  0.00   57.  1002.    2 NAD-SFC NoSubs
 8  6 25 177 10  156.3 -9.000 -9.000 -9.000  590. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  298.4  2.0   0  0.00   52.  1001.    2 NAD-SFC NoSubs
 8  6 25 177 11  178.5 -9.000 -9.000 -9.000  800. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  300.1  2.0   0  0.00   47.  1000.    2 NAD-SFC NoSubs
 8  6 25 177 12  189.7 -9.000 -9.000 -9.000  991. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.5  2.0   0  0.00   43.  1000.    2 NAD-SFC NoSubs
 8  6 25 177 13  190.2  0.121  1.805  0.008 1104.  101.     -1.0  0.2720  0.52  0.19  0.50  323.0  15.0  302.6  2.0   0  0.00   40.   999.    2 NAD-SFC NoSubs
 8  6 25 177 14  180.3  0.185  1.824  0.009 1202.  190.     -3.1  0.2930  0.52  0.19  1.00  336.0  15.0  303.5  2.0   0  0.00   38.   999.    2 NAD-SFC NoSubs
 8  6 25 177 15  159.2  0.234  1.788  0.009 1283.  272.     -7.2  0.2930  0.52  0.19  1.50  352.0  15.0  304.2  2.0   0  0.00   36.   999.    2 NAD-SFC NoSubs
 8  6 25 177 16  128.3  0.287  1.690  0.009 1342.  368.    -16.3  0.2930  0.52  0.20  2.10  360.0  15.0  304.4  2.0   0  0.00   36.   999.    2 NAD-SFC NoSubs
 8  6 25 177 17   89.1 -9.000 -9.000 -9.000 1374. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  304.1  2.0   0  0.00   39.   999.    2 NAD-SFC NoSubs
 8  6 25 177 18   45.0  0.306  1.206  0.009 1388.  406.    -56.6  0.2940  0.52  0.27  2.60   14.0  15.0  303.2  2.0   0  0.00   50.   999.    3 NAD-SFC NoSubs
 8  6 25 177 19    1.7  0.318  0.403  0.009 1387.  430.  -1705.7  0.2930  0.52  0.46  3.10  358.0  15.0  302.5  2.0   0  0.00   53.   999.    3 NAD-SFC NoSubs
 8  6 25 177 20  -37.2  0.373 -9.000 -9.000 -999.  546.    124.2  0.2160  0.52  1.00  4.10  287.0  15.0  301.2  2.0   0  0.00   56.  1000.    3 NAD-SFC NoSubs
 8  6 25 177 21  -55.1  0.543 -9.000 -9.000 -999.  961.    259.7  0.1750  0.52  1.00  6.20  263.0  15.0  296.6  2.0   0  0.00   69.  1000.    3 NAD-SFC NoSubs
 8  6 25 177 22  -45.2  0.443 -9.000 -9.000 -999.  717.    171.6  0.1750  0.52  1.00  5.10  260.0  15.0  294.6  2.0   0  0.00   71.  1000.    3 NAD-SFC NoSubs
 8  6 25 177 23  -36.1  0.353 -9.000 -9.000 -999.  510.    108.6  0.1750  0.52  1.00  4.10  259.0  15.0  293.8  2.0   0  0.00   74.  1000.    3 NAD-SFC NoSubs
 8  6 25 177 24  -33.4  0.325 -9.000 -9.000 -999.  446.     92.1  0.2160  0.52  1.00  3.60  273.0  15.0  293.1  2.0   0  0.00   75.  1000.    3 NAD-SFC NoSubs
 8  6 26 178  1  -15.7  0.196 -9.000 -9.000 -999.  218.     42.5  0.2720  0.52  1.00  2.10  301.0  15.0  292.8  2.0   0  0.00   75.  1001.    3 NAD-SFC NoSubs
 8  6 26 178  2   -8.1  0.140 -9.000 -9.000 -999.  126.     30.0  0.2940  0.52  1.00  1.50    5.0  15.0  292.8  2.0   0  0.00   76.  1001.    3 NAD-SFC NoSubs
 8  6 26 178  3   -8.1  0.140 -9.000 -9.000 -999.  125.     29.9  0.2930  0.52  1.00  1.50  336.0  15.0  292.4  2.0   0  0.00   77.  1001.    3 NAD-SFC NoSubs
 8  6 26 178  4   -7.9  0.137 -9.000 -9.000 -999.  121.     29.1  0.2720  0.52  1.00  1.50  318.0  15.0  292.0  2.0   0  0.00   78.  1002.    3 NAD-SFC NoSubs
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 8  6 26 178  5   -7.9  0.137 -9.000 -9.000 -999.  121.     29.1  0.2720  0.52  1.00  1.50 316.0  15.0 291.6  2.0   0  0.00  79. 1002.   3 NAD-SFC NoSubs
 8  6 26 178  6   -3.0  0.144 -9.000 -9.000 -999.  131.     90.0  0.2720  0.52  0.46  1.50 326.0  15.0 291.5  2.0   0  0.00  79. 1002.   3 NAD-SFC NoSubs
 8  6 26 178  7   40.3  0.153  0.628  0.009  219.  144.     -8.0  0.2930  0.52  0.28  1.00 340.0  15.0 292.9  2.0   0  0.00  69. 1002.   3 NAD-SFC NoSubs
 8  6 26 178  8   85.3 -9.000 -9.000 -9.000  339. -999. -99999.0  0.2235  0.52  0.22  0.00   0.0  15.0 294.6  2.0   0  0.00  63. 1002.   3 NAD-SFC NoSubs
 8  6 26 178  9  124.6 -9.000 -9.000 -9.000  475. -999. -99999.0  0.2235  0.52  0.20  0.00   0.0  15.0 296.2  2.0   0  0.00  59. 1001.   3 NAD-SFC NoSubs
 8  6 26 178 10  156.0 -9.000 -9.000 -9.000  613. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 298.0  2.0   0  0.00  55. 1001.   2 NAD-SFC NoSubs
 8  6 26 178 11  178.3 -9.000 -9.000 -9.000  788. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 299.8  2.0   0  0.00  52. 1000.   2 NAD-SFC NoSubs
 8  6 26 178 12  189.5 -9.000 -9.000 -9.000  961. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 301.2  2.0   0  0.00  48.  999.   2 NAD-SFC NoSubs
 8  6 26 178 13  190.3 -9.000 -9.000 -9.000 1049. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 302.8  2.0   0  0.00  44.  998.   2 NAD-SFC NoSubs
 8  6 26 178 14  180.5  0.122  1.784  0.011 1122.  103.     -1.0  0.2930  0.52  0.19  0.50 358.0  15.0 303.9  2.0   0  0.00  40.  998.   2 NAD-SFC NoSubs
 8  6 26 178 15  159.5 -9.000 -9.000 -9.000 1183. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 304.6  2.0   0  0.00  38.  997.   2 NAD-SFC NoSubs
 8  6 26 178 16  128.7 -9.000 -9.000 -9.000 1229. -999. -99999.0  0.2235  0.52  0.20  0.00   0.0  15.0 304.9  2.0   0  0.00  37.  997.   2 NAD-SFC NoSubs
 8  6 26 178 17   89.6  0.323  1.469  0.011 1260.  441.    -33.5  0.2940  0.52  0.22  2.60   7.0  15.0 304.8  2.0   0  0.00  39.  997.   2 NAD-SFC NoSubs
 8  6 26 178 18   44.5  0.306  1.168  0.011 1274.  406.    -57.0  0.2940  0.52  0.27  2.60  15.0  15.0 304.1  2.0   0  0.00  49.  997.   2 NAD-SFC NoSubs
 8  6 26 178 19    0.6  0.316  0.277  0.011 1273.  427.  -4743.4  0.2940  0.52  0.46  3.10   6.0  15.0 303.2  2.0   0  0.00  51.  997.   2 NAD-SFC NoSubs
 8  6 26 178 20  -39.5  0.397 -9.000 -9.000 -999.  601.    141.4  0.2720  0.52  1.00  4.10 302.0  15.0 301.8  2.0   0  0.00  54.  997.   3 NAD-SFC NoSubs
 8  6 26 178 21  -43.5  0.420 -9.000 -9.000 -999.  653.    151.5  0.2160  0.52  1.00  4.60 283.0  15.0 297.2  2.0   0  0.00  68.  998.   2 NAD-SFC NoSubs
 8  6 26 178 22  -41.5  0.398 -9.000 -9.000 -999.  603.    135.0  0.1750  0.52  1.00  4.60 268.0  15.0 295.1  2.0   0  0.00  70.  998.   2 NAD-SFC NoSubs
 8  6 26 178 23  -39.0  0.372 -9.000 -9.000 -999.  546.    118.0  0.2160  0.52  1.00  4.10 283.0  15.0 294.1  2.0   0  0.00  72.  998.   2 NAD-SFC NoSubs
 8  6 26 178 24  -24.7  0.246 -9.000 -9.000 -999.  303.     53.7  0.2720  0.52  1.00  2.60 305.0  15.0 293.4  2.0   0  0.00  73.  998.   2 NAD-SFC NoSubs
 8  6 27 179  1  -15.9  0.195 -9.000 -9.000 -999.  208.     41.9  0.2720  0.52  1.00  2.10 327.0  15.0 293.0  2.0   0  0.00  73.  999.   2 NAD-SFC NoSubs
 8  6 27 179  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00   0.0  15.0 292.6  2.0   0  0.00  73.  999.   2 NAD-SFC NoSubs
 8  6 27 179  3  -25.7  0.252 -9.000 -9.000 -999.  303.     55.3  0.2940  0.52  1.00  2.60   6.0  15.0 292.2  2.0   0  0.00  74.  999.   2 NAD-SFC NoSubs
 8  6 27 179  4   -8.3  0.140 -9.000 -9.000 -999.  132.     29.6  0.2940  0.52  1.00  1.50  15.0  15.0 291.9  2.0   0  0.00  74. 1000.   2 NAD-SFC NoSubs
 8  6 27 179  5   -4.0  0.102 -9.000 -9.000 -999.   79.     23.7  0.2940  0.52  1.00  1.00   2.0  15.0 291.6  2.0   0  0.00  75. 1000.   2 NAD-SFC NoSubs
 8  6 27 179  6   -0.5  0.053 -9.000 -9.000 -999.   29.     23.7  0.2940  0.52  0.46  0.50   8.0  15.0 291.8  2.0   0  0.00  75. 1000.   2 NAD-SFC NoSubs
 8  6 27 179  7   39.4  0.151  0.525  0.010  131.  140.     -7.7  0.2720  0.52  0.28  1.00 307.0  15.0 294.0  2.0   0  0.00  65. 1001.   2 NAD-SFC NoSubs
 8  6 27 179  8   84.8 -9.000 -9.000 -9.000  256. -999. -99999.0  0.2235  0.52  0.22  0.00   0.0  15.0 295.8  2.0   0  0.00  61. 1000.   2 NAD-SFC NoSubs
 8  6 27 179  9  124.7 -9.000 -9.000 -9.000  404. -999. -99999.0  0.2235  0.52  0.20  0.00   0.0  15.0 297.9  2.0   0  0.00  56. 1000.   2 NAD-SFC NoSubs
 8  6 27 179 10  156.8 -9.000 -9.000 -9.000  595. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 300.0  2.0   0  0.00  51.  999.   2 NAD-SFC NoSubs
 8  6 27 179 11  179.4 -9.000 -9.000 -9.000  749. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 302.2  2.0   0  0.00  44.  999.   2 NAD-SFC NoSubs
 8  6 27 179 12  190.9 -9.000 -9.000 -9.000  881. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 304.1  2.0   0  0.00  39.  998.   2 NAD-SFC NoSubs
 8  6 27 179 13  191.8 -9.000 -9.000 -9.000  991. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 305.8  2.0   0  0.00  34.  997.   2 NAD-SFC NoSubs
 8  6 27 179 14  182.4 -9.000 -9.000 -9.000 1067. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 307.2  2.0   0  0.00  30.  997.   2 NAD-SFC NoSubs
 8  6 27 179 15  161.6 -9.000 -9.000 -9.000 1131. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 308.2  2.0   0  0.00  27.  996.   2 NAD-SFC NoSubs
 8  6 27 179 16  130.9  0.115  1.631  0.009 1179.   94.     -1.0  0.2720  0.52  0.20  0.50 322.0  15.0 308.8  2.0   0  0.00  25.  996.   2 NAD-SFC NoSubs
 8  6 27 179 17   91.8  0.221  1.462  0.009 1211.  249.    -10.4  0.2940  0.52  0.22  1.50   6.0  15.0 308.5  2.0   0  0.00  29.  996.   2 NAD-SFC NoSubs
 8  6 27 179 18   46.2  0.392  1.167  0.009 1224.  588.   -115.6  0.2720  0.52  0.27  3.60 312.0  15.0 307.0  2.0   0  0.00  42.  997.   2 NAD-SFC NoSubs
 8  6 27 179 19    0.3  0.481  0.217  0.009 1216.  801.  -8888.0  0.2160  0.52  0.46  5.10 295.0  15.0 302.5  2.0   0  0.00  55.  998.   2 NAD-SFC NoSubs
 8  6 27 179 20  -43.3  0.420 -9.000 -9.000 -999.  657.    152.3  0.2160  0.52  1.00  4.60 284.0  15.0 298.8  2.0   0  0.00  61.  999.   2 NAD-SFC NoSubs
 8  6 27 179 21  -48.7  0.468 -9.000 -9.000 -999.  767.    187.2  0.2160  0.52  1.00  5.10 276.0  15.0 296.2  2.0   0  0.00  65. 1000.   2 NAD-SFC NoSubs
 8  6 27 179 22  -39.1  0.373 -9.000 -9.000 -999.  552.    118.1  0.2160  0.52  1.00  4.10 294.0  15.0 294.4  2.0   0  0.00  69. 1001.   2 NAD-SFC NoSubs
 8  6 27 179 23  -31.9  0.303 -9.000 -9.000 -999.  403.     78.0  0.2930  0.52  1.00  3.10 342.0  15.0 293.8  2.0   0  0.00  70. 1001.   2 NAD-SFC NoSubs
 8  6 27 179 24  -37.4  0.354 -9.000 -9.000 -999.  506.    106.3  0.2930  0.52  1.00  3.60 348.0  15.0 292.9  2.0   0  0.00  71. 1002.   2 NAD-SFC NoSubs
 8  6 28 180  1  -42.9  0.406 -9.000 -9.000 -999.  620.    139.0  0.2930  0.52  1.00  4.10 336.0  15.0 292.1  2.0   0  0.00  73. 1002.   2 NAD-SFC NoSubs
 8  6 28 180  2  -43.0  0.406 -9.000 -9.000 -999.  620.    138.7  0.2930  0.52  1.00  4.10 339.0  15.0 291.4  2.0   0  0.00  74. 1002.   2 NAD-SFC NoSubs
 8  6 28 180  3  -43.1  0.406 -9.000 -9.000 -999.  620.    138.3  0.2930  0.52  1.00  4.10 352.0  15.0 290.8  2.0   0  0.00  75. 1002.   2 NAD-SFC NoSubs
 8  6 28 180  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00   0.0  15.0 290.4  2.0   0  0.00  76. 1003.   2 NAD-SFC NoSubs
 8  6 28 180  5  -32.4  0.303 -9.000 -9.000 -999.  401.     77.1  0.2940  0.52  1.00  3.10  19.0  15.0 290.0  2.0   0  0.00  77. 1003.   2 NAD-SFC NoSubs
 8  6 28 180  6   -6.8  0.207 -9.000 -9.000 -999.  231.    116.9  0.2940  0.52  0.46  2.10  26.0  15.0 290.5  2.0   0  0.00  75. 1003.   2 NAD-SFC NoSubs
 8  6 28 180  7   38.6  0.153  0.513  0.014  125.  144.     -8.3  0.2940  0.52  0.28  1.00   9.0  15.0 292.6  2.0   0  0.00  63. 1004.   2 NAD-SFC NoSubs
 8  6 28 180  8   84.2 -9.000 -9.000 -9.000  224. -999. -99999.0  0.2235  0.52  0.22  0.00   0.0  15.0 294.8  2.0   0  0.00  56. 1004.   2 NAD-SFC NoSubs
 8  6 28 180  9  124.2 -9.000 -9.000 -9.000  341. -999. -99999.0  0.2235  0.52  0.20  0.00   0.0  15.0 297.1  2.0   0  0.00  48. 1004.   2 NAD-SFC NoSubs
 8  6 28 180 10  156.2 -9.000 -9.000 -9.000  471. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 299.0  2.0   0  0.00  44. 1003.   2 NAD-SFC NoSubs
 8  6 28 180 11  178.7 -9.000 -9.000 -9.000  604. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 301.1  2.0   0  0.00  40. 1003.   2 NAD-SFC NoSubs
 8  6 28 180 12  190.3 -9.000 -9.000 -9.000  740. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 303.1  2.0   0  0.00  34. 1002.   2 NAD-SFC NoSubs
 8  6 28 180 13  191.3 -9.000 -9.000 -9.000  869. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 304.8  2.0   0  0.00  30. 1001.   2 NAD-SFC NoSubs
 8  6 28 180 14  181.7  0.123  1.705  0.008  976.  103.     -1.0  0.2940  0.52  0.19  0.50   6.0  15.0 306.0  2.0   0  0.00  27. 1001.   2 NAD-SFC NoSubs
 8  6 28 180 15  160.7  0.182  1.684  0.008 1062.  186.     -3.3  0.2940  0.52  0.19  1.00  24.0  15.0 306.8  2.0   0  0.00  26. 1000.   2 NAD-SFC NoSubs
 8  6 28 180 16  130.1  0.287  1.602  0.008 1127.  369.    -16.2  0.2940  0.52  0.20  2.10  25.0  15.0 307.2  2.0   0  0.00  27.  999.   2 NAD-SFC NoSubs
 8  6 28 180 17   90.7  0.323  1.437  0.007 1168.  441.    -33.2  0.2940  0.52  0.22  2.60  23.0  15.0 306.5  2.0   0  0.00  35.  999.   2 NAD-SFC NoSubs
 8  6 28 180 18   45.5  0.352  1.149  0.007 1186.  501.    -85.3  0.2940  0.52  0.27  3.10   7.0  15.0 305.8  2.0   0  0.00  42.  999.   2 NAD-SFC NoSubs
 8  6 28 180 19    0.9  0.509  0.316  0.007 1181.  872.  -8888.0  0.2720  0.52  0.46  5.10 305.0  15.0 303.8  2.0   0  0.00  48. 1000.   2 NAD-SFC NoSubs
 8  6 28 180 20  -54.3  0.525 -9.000 -9.000 -999.  913.    237.9  0.2160  0.52  1.00  5.70 282.0  15.0 298.5  2.0   0  0.00  63. 1001.   2 NAD-SFC NoSubs
 8  6 28 180 21  -54.9  0.525 -9.000 -9.000 -999.  913.    235.6  0.2160  0.52  1.00  5.70 279.0  15.0 295.8  2.0   0  0.00  65. 1002.   2 NAD-SFC NoSubs
 8  6 28 180 22  -44.1  0.420 -9.000 -9.000 -999.  662.    149.9  0.2160  0.52  1.00  4.60 282.0  15.0 294.1  2.0   0  0.00  68. 1002.   2 NAD-SFC NoSubs
 8  6 28 180 23  -24.8  0.246 -9.000 -9.000 -999.  318.     53.7  0.2720  0.52  1.00  2.60 314.0  15.0 293.2  2.0   0  0.00  68. 1003.   2 NAD-SFC NoSubs
 8  6 28 180 24  -32.1  0.303 -9.000 -9.000 -999.  401.     77.9  0.2940  0.52  1.00  3.10  27.0  15.0 292.9  2.0   0  0.00  68. 1004.   2 NAD-SFC NoSubs
 8  6 29 181  1  -32.2  0.303 -9.000 -9.000 -999.  401.     77.7  0.2940  0.52  1.00  3.10  28.0  15.0 292.2  2.0   0  0.00  71. 1005.   2 NAD-SFC NoSubs
 8  6 29 181  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00   0.0  15.0 291.8  2.0   0  0.00  71. 1005.   2 NAD-SFC NoSubs
 8  6 29 181  3  -25.9  0.251 -9.000 -9.000 -999.  303.     55.1  0.2930  0.52  1.00  2.60 340.0  15.0 291.1  2.0   0  0.00  70. 1006.   2 NAD-SFC NoSubs
 8  6 29 181  4  -32.3  0.303 -9.000 -9.000 -999.  400.     77.1  0.2930  0.52  1.00  3.10 346.0  15.0 290.8  2.0   0  0.00  69. 1006.   2 NAD-SFC NoSubs
 8  6 29 181  5  -32.4  0.303 -9.000 -9.000 -999.  400.     77.1  0.2930  0.52  1.00  3.10 358.0  15.0 290.4  2.0   0  0.00  69. 1006.   2 NAD-SFC NoSubs
 8  6 29 181  6   -7.1  0.207 -9.000 -9.000 -999.  230.    112.6  0.2930  0.52  0.47  2.10 347.0  15.0 290.6  2.0   0  0.00  68. 1006.   2 NAD-SFC NoSubs
 8  6 29 181  7   38.3  0.201  0.553  0.012  158.  216.     -19.0  0.2930  0.52  0.28  1.50 334.0  15.0 292.2  2.0   0  0.00  59. 1006.   2 NAD-SFC NoSubs
 8  6 29 181  8   83.7 -9.000 -9.000 -9.000  289. -999. -99999.0  0.2235  0.52  0.22  0.00   0.0  15.0 294.1  2.0   0  0.00  52. 1005.   2 NAD-SFC NoSubs
 8  6 29 181  9  123.5 -9.000 -9.000 -9.000  420. -999. -99999.0  0.2235  0.52  0.20  0.00   0.0  15.0 295.8  2.0   0  0.00  49. 1005.   2 NAD-SFC NoSubs
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 8  6 29 181 10  155.5 -9.000 -9.000 -9.000  528. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 297.8  2.0   0  0.00  45. 1004.   2 NAD-SFC NoSubs
 8  6 29 181 11  178.0 -9.000 -9.000 -9.000  631. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 299.8  2.0   0  0.00  41. 1003.   2 NAD-SFC NoSubs
 8  6 29 181 12  189.5 -9.000 -9.000 -9.000  752. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 301.6  2.0   0  0.00  38. 1003.   2 NAD-SFC NoSubs
 8  6 29 181 13  190.3  0.121  1.664  0.010  866.  101.     -1.0 0.2720  0.52  0.19  0.50 324.0  15.0 303.0  2.0   0  0.00  35. 1002.   2 NAD-SFC NoSubs
 8  6 29 181 14  180.6  0.238  1.694  0.010  962.  279.     -6.7 0.2930  0.52  0.19  1.50 339.0  15.0 304.1  2.0   0  0.00  33. 1001.   2 NAD-SFC NoSubs
 8  6 29 181 15  159.7  0.341  1.666  0.010 1035.  477.    -22.1 0.2930  0.52  0.19  2.60 355.0  15.0 304.8  2.0   0  0.00  32. 1001.   2 NAD-SFC NoSubs
 8  6 29 181 16  128.9  0.426  1.578  0.010 1089.  667.    -53.5 0.2940  0.52  0.20  3.60  12.0  15.0 305.0  2.0   0  0.00  33. 1001.   2 NAD-SFC NoSubs
 8  6 29 181 17   89.6  0.369  1.412  0.009 1124.  541.    -50.1 0.2940  0.52  0.22  3.10  22.0  15.0 304.4  2.0   0  0.00  42. 1001.   2 NAD-SFC NoSubs
 8  6 29 181 18   44.6  0.306  1.125  0.009 1140.  408.    -57.1 0.2940  0.52  0.27  2.60  22.0  15.0 303.9  2.0   0  0.00  48. 1001.   2 NAD-SFC NoSubs
 8  6 29 181 19    0.8  0.360  0.297  0.009 1139.  519.  -5081.4 0.2720  0.52  0.46  3.60 318.0  15.0 303.4  2.0   0  0.00  47. 1002.   2 NAD-SFC NoSubs
 8  6 29 181 20  -48.4  0.468 -9.000 -9.000 -999.  767.    189.0 0.2160  0.52  1.00  5.10 281.0  15.0 298.9  2.0   0  0.00  58. 1003.   2 NAD-SFC NoSubs
 8  6 29 181 21  -52.1  0.497 -9.000 -9.000 -999.  841.    211.1 0.1750  0.52  1.00  5.70 269.0  15.0 295.2  2.0   0  0.00  60. 1003.   2 NAD-SFC NoSubs
 8  6 29 181 22  -49.2  0.467 -9.000 -9.000 -999.  768.    185.5 0.2160  0.52  1.00  5.10 272.0  15.0 293.8  2.0   0  0.00  63. 1003.   2 NAD-SFC NoSubs
 8  6 29 181 23  -34.4  0.325 -9.000 -9.000 -999.  461.     89.5 0.2160  0.52  1.00  3.60 287.0  15.0 292.8  2.0   0  0.00  64. 1004.   2 NAD-SFC NoSubs
 8  6 29 181 24  -24.6  0.246 -9.000 -9.000 -999.  297.     54.4 0.2720  0.52  1.00  2.60 327.0  15.0 292.1  2.0   0  0.00  64. 1005.   3 NAD-SFC NoSubs
 8  6 30 182  1  -16.4  0.200 -9.000 -9.000 -999.  215.     43.7 0.2930  0.52  1.00  2.10 358.0  15.0 291.8  2.0   0  0.00  63. 1005.   3 NAD-SFC NoSubs
 8  6 30 182  2   -4.0  0.102 -9.000 -9.000 -999.   82.     23.7 0.2930  0.52  1.00  1.00 355.0  15.0 291.5  2.0   0  0.00  63. 1006.   3 NAD-SFC NoSubs
 8  6 30 182  3   -1.6  0.082 -9.000 -9.000 -999.   57.     31.6 0.2720  0.52  1.00  0.50 304.0  15.0 291.2  2.0   0  0.00  63. 1006.   3 NAD-SFC NoSubs
 8  6 30 182  4   -1.5  0.080 -9.000 -9.000 -999.   54.     31.2 0.2160  0.52  1.00  0.50 288.0  15.0 290.9  2.0   0  0.00  65. 1006.   3 NAD-SFC NoSubs
 8  6 30 182  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 290.6  2.0   0  0.00  67. 1006.   2 NAD-SFC NoSubs
 8  6 30 182  6   -0.6  0.055 -9.000 -9.000 -999.   31.     24.1 0.2940  0.52  0.47  0.50  20.0  15.0 290.5  2.0   0  0.00  70. 1006.   2 NAD-SFC NoSubs
 8  6 30 182  7   37.8  0.152  0.630  0.011  237.  143.     -8.4 0.2940  0.52  0.28  1.00  12.0  15.0 291.6  2.0   0  0.00  67. 1006.   2 NAD-SFC NoSubs
 8  6 30 182  8   83.3 -9.000 -9.000 -9.000  340. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 293.5  2.0   0  0.00  59. 1006.   2 NAD-SFC NoSubs
 8  6 30 182  9  123.1 -9.000 -9.000 -9.000  460. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 295.1  2.0   0  0.00  54. 1005.   2 NAD-SFC NoSubs
 8  6 30 182 10  155.1 -9.000 -9.000 -9.000  583. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 297.1  2.0   0  0.00  50. 1005.   2 NAD-SFC NoSubs
 8  6 30 182 11  177.5 -9.000 -9.000 -9.000  706. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 298.9  2.0   0  0.00  46. 1004.   2 NAD-SFC NoSubs
 8  6 30 182 12  188.9 -9.000 -9.000 -9.000  829. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 300.4  2.0   0  0.00  44. 1003.   2 NAD-SFC NoSubs
 8  6 30 182 13  189.8  0.123  1.706  0.012  937.  104.     -1.0 0.2930  0.52  0.19  0.50 352.0  15.0 301.9  2.0   0  0.00  42. 1003.   2 NAD-SFC NoSubs
 8  6 30 182 14  180.1 -9.000 -9.000 -9.000 1013. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 303.1  2.0   0  0.00  39. 1002.   2 NAD-SFC NoSubs
 8  6 30 182 15  159.3  0.293  1.682  0.013 1068.  381.    -14.1 0.2940  0.52  0.19  2.10  11.0  15.0 304.0  2.0   0  0.00  37. 1002.   2 NAD-SFC NoSubs
 8  6 30 182 16  128.6  0.333  1.587  0.013 1111.  462.    -25.7 0.2940  0.52  0.20  2.60  11.0  15.0 304.4  2.0   0  0.00  35. 1001.   2 NAD-SFC NoSubs
 8  6 30 182 17   89.5  0.369  1.418  0.013 1139.  538.    -50.1 0.2940  0.52  0.22  3.10  14.0  15.0 304.2  2.0   0  0.00  39. 1001.   2 NAD-SFC NoSubs
 8  6 30 182 18   44.5  0.305  1.128  0.013 1151.  407.    -57.1 0.2930  0.52  0.27  2.60 353.0  15.0 303.8  2.0   0  0.00  45. 1002.   2 NAD-SFC NoSubs
 8  6 30 182 19    0.2  0.434  0.182  0.013 1149.  686.  -8888.0 0.2160  0.52  0.46  4.60 298.0  15.0 302.1  2.0   0  0.00  47. 1002.   2 NAD-SFC NoSubs
 8  6 30 182 20  -48.6  0.468 -9.000 -9.000 -999.  767.    187.8 0.2160  0.52  1.00  5.10 275.0  15.0 297.2  2.0   0  0.00  57. 1002.   2 NAD-SFC NoSubs
 8  6 30 182 21  -49.1  0.467 -9.000 -9.000 -999.  767.    186.1 0.2160  0.52  1.00  5.10 270.0  15.0 294.6  2.0   0  0.00  63. 1003.   2 NAD-SFC NoSubs
 8  6 30 182 22  -44.3  0.420 -9.000 -9.000 -999.  655.    149.4 0.2160  0.52  1.00  4.60 275.0  15.0 293.2  2.0   0  0.00  67. 1003.   2 NAD-SFC NoSubs
 8  6 30 182 23  -39.4  0.372 -9.000 -9.000 -999.  547.    117.1 0.2160  0.52  1.00  4.10 293.0  15.0 292.1  2.0   0  0.00  70. 1003.   2 NAD-SFC NoSubs
 8  6 30 182 24  -31.5  0.296 -9.000 -9.000 -999.  391.     74.0 0.2720  0.52  1.00  3.10 304.0  15.0 291.2  2.0   0  0.00  73. 1003.   2 NAD-SFC NoSubs
 8  7  1 183  1  -24.6  0.246 -9.000 -9.000 -999.  294.     54.2 0.2720  0.52  1.00  2.60 320.0  15.0 290.8  2.0   0  0.00  76. 1003.   3 NAD-SFC NoSubs
 8  7  1 183  2  -25.8  0.251 -9.000 -9.000 -999.  303.     55.0 0.2930  0.52  1.00  2.60 331.0  15.0 290.4  2.0   0  0.00  76. 1003.   2 NAD-SFC NoSubs
 8  7  1 183  3  -16.0  0.195 -9.000 -9.000 -999.  208.     41.7 0.2720  0.52  1.00  2.10 315.0  15.0 290.2  2.0   0  0.00  77. 1004.   2 NAD-SFC NoSubs
 8  7  1 183  4   -8.0  0.137 -9.000 -9.000 -999.  122.     28.6 0.2720  0.52  1.00  1.50 301.0  15.0 290.0  2.0   0  0.00  77. 1004.   2 NAD-SFC NoSubs
 8  7  1 183  5   -3.9  0.101 -9.000 -9.000 -999.   77.     23.3 0.2720  0.52  1.00  1.00 310.0  15.0 289.6  2.0   0  0.00  79. 1004.   2 NAD-SFC NoSubs
 8  7  1 183  6   -0.7  0.057 -9.000 -9.000 -999.   33.     24.4 0.2930  0.52  0.47  0.50 352.0  15.0 289.6  2.0   0  0.00  80. 1004.   2 NAD-SFC NoSubs
 8  7  1 183  7   37.3  0.099  0.621  0.011  229.   75.     -2.3 0.2940  0.52  0.28  0.50   1.0  15.0 290.9  2.0   0  0.00  76. 1004.   2 NAD-SFC NoSubs
 8  7  1 183  8   82.8 -9.000 -9.000 -9.000  330. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 292.8  2.0   0  0.00  67. 1004.   2 NAD-SFC NoSubs
 8  7  1 183  9  122.7 -9.000 -9.000 -9.000  445. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 294.5  2.0   0  0.00  62. 1003.   2 NAD-SFC NoSubs
 8  7  1 183 10  154.7 -9.000 -9.000 -9.000  563. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 296.5  2.0   0  0.00  55. 1003.   2 NAD-SFC NoSubs
 8  7  1 183 11  177.1 -9.000 -9.000 -9.000  678. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 298.2  2.0   0  0.00  51. 1002.   2 NAD-SFC NoSubs
 8  7  1 183 12  188.6 -9.000 -9.000 -9.000  802. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 299.9  2.0   0  0.00  47. 1001.   2 NAD-SFC NoSubs
 8  7  1 183 13  189.5  0.123  1.690  0.012  910.  104.     -1.0 0.2930  0.52  0.19  0.50 334.0  15.0 301.4  2.0   0  0.00  43. 1000.   2 NAD-SFC NoSubs
 8  7  1 183 14  179.8  0.185  1.711  0.013  993.  190.     -3.1 0.2930  0.52  0.19  1.00 342.0  15.0 302.5  2.0   0  0.00  38.  999.   2 NAD-SFC NoSubs
 8  7  1 183 15  158.9  0.293  1.671  0.013 1048.  381.    -14.1 0.2930  0.52  0.19  2.10 352.0  15.0 303.1  2.0   0  0.00  37.  999.   2 NAD-SFC NoSubs
 8  7  1 183 16  128.1  0.333  1.576  0.013 1090.  462.    -25.7 0.2940  0.52  0.20  2.60   3.0  15.0 303.4  2.0   0  0.00  36.  998.   2 NAD-SFC NoSubs
 8  7  1 183 17   89.0 -9.000 -9.000 -9.000 1117. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 303.1  2.0   0  0.00  39.  998.   2 NAD-SFC NoSubs
 8  7  1 183 18   44.0  0.305  1.118  0.013 1130.  405.    -57.6 0.2940  0.52  0.27  2.60   9.0  15.0 302.6  2.0   0  0.00  48.  998.   2 NAD-SFC NoSubs
 8  7  1 183 19   -0.0  0.324 -9.000 -9.000 -999.  442.   8888.0 0.2940  0.52  0.46  3.10  15.0  15.0 301.8  2.0   0  0.00  50.  998.   2 NAD-SFC NoSubs
 8  7  1 183 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 300.4  2.0   0  0.00  54.  998.   2 NAD-SFC NoSubs
 8  7  1 183 21  -31.3  0.303 -9.000 -9.000 -999.  401.     79.4 0.2930  0.52  1.00  3.10 343.0  15.0 298.9  2.0   0  0.00  58.  999.   2 NAD-SFC NoSubs
 8  7  1 183 22  -29.9  0.297 -9.000 -9.000 -999.  388.     77.8 0.2720  0.52  1.00  3.10 319.0  15.0 297.6  2.0   0  0.00  63.  999.   3 NAD-SFC NoSubs
 8  7  1 183 23  -30.8  0.297 -9.000 -9.000 -999.  388.     75.4 0.2720  0.52  1.00  3.10 306.0  15.0 296.4  2.0   0  0.00  68.  999.   2 NAD-SFC NoSubs
 8  7  1 183 24  -30.9  0.297 -9.000 -9.000 -999.  388.     75.1 0.2720  0.52  1.00  3.10 312.0  15.0 295.5  2.0   0  0.00  72.  999.   2 NAD-SFC NoSubs
 8  7  2 184  1  -24.7  0.246 -9.000 -9.000 -999.  294.     53.8 0.2720  0.52  1.00  2.60 329.0  15.0 294.8  2.0   0  0.00  76.  999.   2 NAD-SFC NoSubs
 8  7  2 184  2  -25.6  0.252 -9.000 -9.000 -999.  303.     55.5 0.2940  0.52  1.00  2.60  14.0  15.0 293.9  2.0   0  0.00  80.  999.   2 NAD-SFC NoSubs
 8  7  2 184  3  -25.7  0.252 -9.000 -9.000 -999.  303.     55.4 0.2940  0.52  1.00  2.60  16.0  15.0 293.0  2.0   0  0.00  83. 1000.   2 NAD-SFC NoSubs
 8  7  2 184  4  -25.7  0.252 -9.000 -9.000 -999.  303.     55.3 0.2940  0.52  1.00  2.60  17.0  15.0 292.2  2.0   0  0.00  86. 1000.   2 NAD-SFC NoSubs
 8  7  2 184  5  -16.5  0.200 -9.000 -9.000 -999.  215.     43.1 0.2940  0.52  1.00  2.10  11.0  15.0 291.5  2.0   0  0.00  87. 1000.   2 NAD-SFC NoSubs
 8  7  2 184  6   -7.7  0.207 -9.000 -9.000 -999.  226.    102.3 0.2940  0.52  0.47  2.10   8.0  15.0 291.2  2.0   0  0.00  86. 1001.   2 NAD-SFC NoSubs
 8  7  2 184  7   37.5  0.201  0.555  0.007  162.  216.    -19.2 0.2940  0.52  0.28  1.50   6.0  15.0 292.5  2.0   0  0.00  74. 1001.   2 NAD-SFC NoSubs
 8  7  2 184  8   83.1 -9.000 -9.000 -9.000  293. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 294.4  2.0   0  0.00  66. 1001.   2 NAD-SFC NoSubs
 8  7  2 184  9  123.1 -9.000 -9.000 -9.000  464. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 296.2  2.0   0  0.00  60. 1001.   2 NAD-SFC NoSubs
 8  7  2 184 10  155.1 -9.000 -9.000 -9.000  696. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 298.0  2.0   0  0.00  55. 1000.   2 NAD-SFC NoSubs
 8  7  2 184 11  177.6 -9.000 -9.000 -9.000  936. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 299.8  2.0   0  0.00  49. 1000.   2 NAD-SFC NoSubs
 8  7  2 184 12  189.2 -9.000 -9.000 -9.000 1023. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 301.4  2.0   0  0.00  44.  999.   2 NAD-SFC NoSubs
 8  7  2 184 13  190.0 -9.000 -9.000 -9.000 1081. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 302.5  2.0   0  0.00  41.  998.   2 NAD-SFC NoSubs
 8  7  2 184 14  180.3  0.122  1.790  0.015 1133.  103.     -1.0 0.2930  0.52  0.19  0.50 336.0  15.0 303.4  2.0   0  0.00  39.  997.   2 NAD-SFC NoSubs
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8	7	2	184	15	159.4	0.182	1.740	0.015	1177.	186.	-3.4	0.2940	0.52	0.19	1.00	7.0	15.0	304.1	2.0	0	0.00	37.	997.	2	NAD-SFC	NoSubs
8	7	2	184	16	128.7	0.287	1.637	0.015	1212.	369.	-16.3	0.2940	0.52	0.20	2.10	8.0	15.0	304.4	2.0	0	0.00	36.	996.	2	NAD-SFC	NoSubs
8	7	2	184	17	89.6	0.323	1.460	0.015	1235.	441.	-33.4	0.2940	0.52	0.22	2.60	22.0	15.0	304.2	2.0	0	0.00	38.	996.	2	NAD-SFC	NoSubs
8	7	2	184	18	44.6	0.260	1.160	0.015	1246.	319.	-34.9	0.2940	0.52	0.27	2.10	17.0	15.0	303.8	2.0	0	0.00	47.	996.	2	NAD-SFC	NoSubs
8	7	2	184	19	0.6	0.316	0.278	0.015	1245.	427.	-4627.2	0.2940	0.52	0.46	3.10	7.0	15.0	303.0	2.0	0	0.00	49.	996.	2	NAD-SFC	NoSubs
8	7	2	184	20	-25.2	0.252	-9.000	-9.000	-999.	305.	56.2	0.2930	0.52	1.00	2.60	359.0	15.0	301.8	2.0	0	0.00	53.	996.	2	NAD-SFC	NoSubs
8	7	2	184	21	-16.0	0.200	-9.000	-9.000	-999.	216.	44.5	0.2930	0.52	1.00	2.10	336.0	15.0	300.5	2.0	0	0.00	57.	997.	3	NAD-SFC	NoSubs
8	7	2	184	22	-24.1	0.246	-9.000	-9.000	-999.	294.	55.1	0.2720	0.52	1.00	2.60	315.0	15.0	299.2	2.0	0	0.00	62.	997.	3	NAD-SFC	NoSubs
8	7	2	184	23	-29.8	0.297	-9.000	-9.000	-999.	388.	77.9	0.2720	0.52	1.00	3.10	315.0	15.0	298.0	2.0	0	0.00	67.	997.	3	NAD-SFC	NoSubs
8	7	2	184	24	-35.8	0.355	-9.000	-9.000	-999.	507.	110.7	0.2930	0.52	1.00	3.60	331.0	15.0	296.8	2.0	0	0.00	71.	997.	3	NAD-SFC	NoSubs
8	7	3	185	1	-36.0	0.355	-9.000	-9.000	-999.	508.	110.5	0.2940	0.52	1.00	3.60	5.0	15.0	295.8	2.0	0	0.00	75.	998.	3	NAD-SFC	NoSubs
8	7	3	185	2	-30.9	0.304	-9.000	-9.000	-999.	403.	80.5	0.2940	0.52	1.00	3.10	9.0	15.0	294.6	2.0	0	0.00	77.	998.	3	NAD-SFC	NoSubs
8	7	3	185	3	-25.3	0.252	-9.000	-9.000	-999.	305.	56.3	0.2940	0.52	1.00	2.60	20.0	15.0	293.8	2.0	0	0.00	79.	999.	3	NAD-SFC	NoSubs
8	7	3	185	4	-8.1	0.140	-9.000	-9.000	-999.	132.	30.0	0.2940	0.52	1.00	1.50	21.0	15.0	292.9	2.0	0	0.00	80.	999.	3	NAD-SFC	NoSubs
8	7	3	185	5	-3.9	0.102	-9.000	-9.000	-999.	78.	23.7	0.2940	0.52	1.00	1.00	6.0	15.0	292.2	2.0	0	0.00	81.	999.	3	NAD-SFC	NoSubs
8	7	3	185	6	-2.2	0.093	-9.000	-9.000	-999.	69.	33.3	0.2930	0.52	0.47	1.00	355.0	15.0	292.1	2.0	0	0.00	80.	1000.	2	NAD-SFC	NoSubs
8	7	3	185	7	37.4	0.201	0.595	0.010	201.	215.	-19.2	0.2940	0.52	0.28	1.50	1.0	15.0	293.1	2.0	0	0.00	70.	1001.	2	NAD-SFC	NoSubs
8	7	3	185	8	83.0	-9.000	-9.000	-9.000	293.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	295.0	2.0	0	0.00	63.	1001.	2	NAD-SFC	NoSubs
8	7	3	185	9	123.1	-9.000	-9.000	-9.000	391.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.8	2.0	0	0.00	57.	1000.	2	NAD-SFC	NoSubs
8	7	3	185	10	155.3	0.112	1.352	0.006	568.	90.	-1.0	0.2160	0.52	0.19	0.50	280.0	15.0	298.8	2.0	0	0.00	51.	1000.	2	NAD-SFC	NoSubs
8	7	3	185	11	177.8	-9.000	-9.000	-9.000	749.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.4	2.0	0	0.00	46.	1000.	2	NAD-SFC	NoSubs
8	7	3	185	12	189.4	-9.000	-9.000	-9.000	937.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.0	2.0	0	0.00	42.	999.	2	NAD-SFC	NoSubs
8	7	3	185	13	190.2	0.121	1.778	0.010	1054.	101.	-1.0	0.2720	0.52	0.19	0.50	324.0	15.0	303.1	2.0	0	0.00	39.	999.	2	NAD-SFC	NoSubs
8	7	3	185	14	180.5	0.238	1.797	0.011	1146.	279.	-6.7	0.2930	0.52	0.19	1.50	339.0	15.0	303.9	2.0	0	0.00	38.	998.	2	NAD-SFC	NoSubs
8	7	3	185	15	159.5	0.341	1.761	0.012	1220.	478.	-22.1	0.2940	0.52	0.19	2.60	3.0	15.0	304.4	2.0	0	0.00	38.	998.	2	NAD-SFC	NoSubs
8	7	3	185	16	128.8	-9.000	-9.000	-9.000	1278.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	304.8	2.0	0	0.00	41.	998.	2	NAD-SFC	NoSubs
8	7	3	185	17	89.7	-9.000	-9.000	-9.000	1315.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	304.5	2.0	0	0.00	48.	998.	2	NAD-SFC	NoSubs
8	7	3	185	18	44.8	-9.000	-9.000	-9.000	1333.	-999.	-99999.0	0.2235	0.52	0.27	0.00	0.0	15.0	304.2	2.0	0	0.00	55.	998.	2	NAD-SFC	NoSubs
8	7	3	185	19	2.2	0.368	0.434	0.013	1332.	537.	-2045.7	0.2930	0.52	0.46	3.60	350.0	15.0	303.2	2.0	0	0.00	56.	998.	3	NAD-SFC	NoSubs
8	7	3	185	20	-39.6	0.397	-9.000	-9.000	-999.	601.	141.2	0.2720	0.52	1.00	4.10	327.0	15.0	301.4	2.0	0	0.00	62.	999.	3	NAD-SFC	NoSubs
8	7	3	185	21	-40.7	0.406	-9.000	-9.000	-999.	621.	146.6	0.2930	0.52	1.00	4.10	345.0	15.0	299.6	2.0	0	0.00	67.	999.	3	NAD-SFC	NoSubs
8	7	3	185	22	-35.7	0.355	-9.000	-9.000	-999.	509.	111.4	0.2930	0.52	1.00	3.60	344.0	15.0	298.4	2.0	0	0.00	71.	999.	3	NAD-SFC	NoSubs
8	7	3	185	23	-40.2	0.397	-9.000	-9.000	-999.	601.	139.1	0.2720	0.52	1.00	4.10	327.0	15.0	297.1	2.0	0	0.00	75.	1000.	3	NAD-SFC	NoSubs
8	7	3	185	24	-36.0	0.355	-9.000	-9.000	-999.	508.	110.3	0.2930	0.52	1.00	3.60	331.0	15.0	295.8	2.0	0	0.00	76.	1000.	3	NAD-SFC	NoSubs
8	7	4	186	1	-36.2	0.355	-9.000	-9.000	-999.	507.	110.0	0.2930	0.52	1.00	3.60	336.0	15.0	294.9	2.0	0	0.00	77.	1001.	3	NAD-SFC	NoSubs
8	7	4	186	2	-31.0	0.303	-9.000	-9.000	-999.	402.	80.3	0.2930	0.52	1.00	3.10	353.0	15.0	294.2	2.0	0	0.00	78.	1001.	3	NAD-SFC	NoSubs
8	7	4	186	3	-25.4	0.252	-9.000	-9.000	-999.	304.	56.2	0.2930	0.52	1.00	2.60	354.0	15.0	293.6	2.0	0	0.00	79.	1002.	3	NAD-SFC	NoSubs
8	7	4	186	4	-16.3	0.200	-9.000	-9.000	-999.	216.	43.9	0.2940	0.52	1.00	2.10	2.0	15.0	293.1	2.0	0	0.00	80.	1002.	3	NAD-SFC	NoSubs
8	7	4	186	5	-8.2	0.140	-9.000	-9.000	-999.	126.	29.9	0.2930	0.52	1.00	1.50	357.0	15.0	292.5	2.0	0	0.00	82.	1003.	3	NAD-SFC	NoSubs
8	7	4	186	6	-6.5	0.207	-9.000	-9.000	-999.	227.	122.6	0.2930	0.52	0.48	2.10	346.0	15.0	292.2	2.0	0	0.00	83.	1003.	3	NAD-SFC	NoSubs
8	7	4	186	7	38.2	0.256	0.639	0.008	244.	311.	-39.4	0.2930	0.52	0.28	2.10	353.0	15.0	293.0	2.0	0	0.00	75.	1004.	3	NAD-SFC	NoSubs
8	7	4	186	8	83.3	0.167	0.926	0.008	341.	167.	-5.0	0.2930	0.52	0.22	1.00	338.0	15.0	294.5	2.0	0	0.00	69.	1003.	3	NAD-SFC	NoSubs
8	7	4	186	9	122.9	0.114	1.183	0.008	482.	93.	-1.1	0.2720	0.52	0.20	0.50	313.0	15.0	296.0	2.0	0	0.00	63.	1003.	3	NAD-SFC	NoSubs
8	7	4	186	10	154.6	0.118	1.404	0.008	641.	97.	-1.0	0.2720	0.52	0.19	0.50	315.0	15.0	297.5	2.0	0	0.00	58.	1003.	2	NAD-SFC	NoSubs
8	7	4	186	11	177.2	0.120	1.566	0.008	776.	100.	-1.0	0.2720	0.52	0.19	0.50	311.0	15.0	299.2	2.0	0	0.00	53.	1002.	2	NAD-SFC	NoSubs
8	7	4	186	12	188.6	0.121	1.679	0.007	897.	101.	-1.0	0.2720	0.52	0.19	0.50	321.0	15.0	300.6	2.0	0	0.00	49.	1001.	2	NAD-SFC	NoSubs
8	7	4	186	13	189.5	0.183	1.749	0.007	1009.	187.	-2.9	0.2720	0.52	0.19	1.00	328.0	15.0	301.8	2.0	0	0.00	46.	1001.	2	NAD-SFC	NoSubs
8	7	4	186	14	179.7	0.238	1.777	0.008	1115.	279.	-6.7	0.2930	0.52	0.19	1.50	342.0	15.0	302.5	2.0	0	0.00	43.	1000.	2	NAD-SFC	NoSubs
8	7	4	186	15	158.8	0.340	1.748	0.008	1201.	477.	-22.1	0.2930	0.52	0.19	2.60	355.0	15.0	303.0	2.0	0	0.00	42.	1000.	2	NAD-SFC	NoSubs
8	7	4	186	16	127.9	0.426	1.655	0.008	1265.	666.	-53.7	0.2940	0.52	0.20	3.60	5.0	15.0	303.0	2.0	0	0.00	42.	999.	2	NAD-SFC	NoSubs
8	7	4	186	17	88.8	-9.000	-9.000	-9.000	1307.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	302.6	2.0	0	0.00	46.	999.	2	NAD-SFC	NoSubs
8	7	4	186	18	43.6	-9.000	-9.000	-9.000	1326.	-999.	-99999.0	0.2235	0.52	0.27	0.00	0.0	15.0	301.9	2.0	0	0.00	55.	999.	2	NAD-SFC	NoSubs
8	7	4	186	19	-1.5	0.374	-9.000	-9.000	-999.	549.	3083.7	0.2940	0.52	0.46	3.60	1.0	15.0	300.8	2.0	0	0.00	57.	1000.	2	NAD-SFC	NoSubs
8	7	4	186	20	-36.5	0.355	-9.000	-9.000	-999.	507.	108.7	0.2930	0.52	1.00	3.60	353.0	15.0	299.2	2.0	0	0.00	60.	1000.	2	NAD-SFC	NoSubs
8	7	4	186	21	-36.7	0.354	-9.000	-9.000	-999.	507.	108.1	0.2930	0.52	1.00	3.60	341.0	15.0	297.6	2.0	0	0.00	66.	1000.	2	NAD-SFC	NoSubs
8	7	4	186	22	-35.2	0.347	-9.000	-9.000	-999.	491.	105.9	0.2720	0.52	1.00	3.60	326.0	15.0	296.4	2.0	0	0.00	72.	1000.	3	NAD-SFC	NoSubs
8	7	4	186	23	-30.2	0.297	-9.000	-9.000	-999.	389.	77.2	0.2720	0.52	1.00	3.10	326.0	15.0	295.5	2.0	0	0.00	75.	1000.	3	NAD-SFC	NoSubs
8	7	4	186	24	-30.9	0.303	-9.000	-9.000	-999.	401.	80.4	0.2930	0.52	1.00	3.10	334.0	15.0	294.6	2.0	0	0.00	79.	1000.	3	NAD-SFC	NoSubs
8	7	5	187	1	-30.3	0.297	-9.000	-9.000	-999.	388.	76.7	0.2720	0.52	1.00	3.10	329.0	15.0	293.9	2.0	0	0.00	81.	1000.	3	NAD-SFC	NoSubs
8	7	5	187	2	-24.4	0.246	-9.000	-9.000	-999.	294.	54.5	0.2720	0.52	1.00	2.60	329.0	15.0	293.1	2.0	0	0.00	84.	1000.	3	NAD-SFC	NoSubs
8	7	5	187	3	-16.3	0.200	-9.000	-9.000	-999.	215.	43.8	0.2930	0.52	1.00	2.10	344.0	15.0	292.6	2.0	0	0.00	86.	1000.	3	NAD-SFC	NoSubs
8	7	5	187	4	-3.9	0.101	-9.000	-9.000	-999.	82.	23.7	0.2930	0.52	1.00	1.00	341.0	15.0	292.0	2.0	0	0.00	87.	1001.	3	NAD-SFC	NoSubs
8	7	5	187	5	-3.8	0.100	-9.000	-9.000	-999.	76.	23.3	0.2720	0.52	1.00	1.00	309.0	15.0	291.6	2.0	0	0.00	89.	1001.	3	NAD-SFC	NoSubs
8	7	5	187	6	-0.7	0.058	-9.000	-9.000	-999.	33.	24.5	0.2720	0.52	0.48	0.50	322.0	15.0	291.6	2.0	0	0.00	88.	1001.	2	NAD-SFC	NoSubs
8	7	5	187	7	36.6	0.200	0.598	0.010	209.	215.	-19.5	0.2930	0.52	0.28	1.50	353.0	15.0	292.8	2.0	0	0.00	80.	1002.	2	NAD-SFC	NoSubs
8	7	5	187	8	82.3	-9.000	-9.000	-9.000	297.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	294.5	2.0	0	0.00	72.	1002.	2	NAD-SFC	NoSubs
8	7	5	187	9	122.4	-9.000	-9.000	-9.000	396.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.2	2.0	0	0.00	64.	1001.	2	NAD-SFC	NoSubs
8	7	5	187	10	154.6	-9.000	-9.000	-9.000	579.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.0	2.0	0	0.00	58.	1001.	2	NAD-SFC	NoSubs
8	7	5	187	11	177.2	-9.000	-9.000	-9.000	767.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.6	2.0	0	0.00	52.	1000.	2	NAD-SFC	NoSubs
8	7	5	187	12	188.7	-9.000	-9.000	-9.000	951.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.9	2.0	0	0.00	48.	999.	2	NAD-SFC	NoSubs
8	7	5	187	13	189.5	-9.000	-9.000	-9.000	1057.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.0	2.0	0	0.00	45.	998.	2	NAD-SFC	NoSubs
8	7	5	187	14	179.8	0.122	1.792	0.012	1142.	103.	-1.0	0.2930	0.52	0.19	0.50	341.0	15.0	302.8	2.0	0	0.00	43.	998.	2	NAD-SFC	NoSubs
8	7	5	187	15	159.0	0.182	1.756	0.012	1213.	186.	-3.4	0.2940	0.52	0.19	1.00	8.0	15.0	303.5	2.0	0	0.00	42.	997.	2	NAD-SFC	NoSubs
8	7	5	187	16	128.3	0.287	1.659	0.013	1268.	369.	-16.4	0.2940	0.52	0.20	2.10	24.0	15.0	303.8	2.0	0	0.00	41.	996.	2	NAD-SFC	NoSubs
8	7	5	187	17	89.3	0.323	1.485	0.013	1303.	440.	-33.5	0.2940	0.52	0.22	2.60	18.0	15.0	303.8	2.0	0	0.00	42.	996.	2	NAD-SFC	NoSubs
8	7	5	187	18	44.2	0.294	1.180	0.013	1320.	383.	-51.1	0.2470	0.52	0.27	2.60	32.0	15.0	303.2	2.0	0	0.00	51.	996.	2	NAD-SFC	NoSubs
8	7	5	187	19	0.3	0.316	0.212	0.013	1319.	426.	-8888.0	0.2940	0.52	0.46	3.10	25.0	15.0	302.6	2.0	0	0.00	52.	996.	2	NAD-SFC	NoSubs

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 8  7  5 187 20  -16.0  0.200 -9.000 -9.000 -999.  222.     44.6  0.2940  0.52  1.00  2.10   10.0  15.0 301.4  2.0   0  0.00  55.  996.   3 NAD-SFC NoSubs
 8  7  5 187 21   -3.8  0.101 -9.000 -9.000 -999.   82.     23.7  0.2930  0.52  1.00  1.00  342.0  15.0 300.2  2.0   0  0.00  59.  996.   3 NAD-SFC NoSubs
 8  7  5 187 22   -3.4  0.095 -9.000 -9.000 -999.   71.     22.4  0.2160  0.52  1.00  1.00  275.0  15.0 299.1  2.0   0  0.00  63.  996.   3 NAD-SFC NoSubs
 8  7  5 187 23  -19.9  0.219 -9.000 -9.000 -999.  245.     46.6  0.1750  0.52  1.00  2.60  268.0  15.0 297.9  2.0   0  0.00  68.  996.   3 NAD-SFC NoSubs
 8  7  5 187 24  -28.1  0.278 -9.000 -9.000 -999.  352.     68.2  0.2160  0.52  1.00  3.10  285.0  15.0 296.8  2.0   0  0.00  72.  996.   3 NAD-SFC NoSubs
 8  7  6 188  1  -28.9  0.278 -9.000 -9.000 -999.  352.     66.1  0.2160  0.52  1.00  3.10  294.0  15.0 295.8  2.0   0  0.00  74.  996.   2 NAD-SFC NoSubs
 8  7  6 188  2  -24.3  0.246 -9.000 -9.000 -999.  294.     54.7  0.2720  0.52  1.00  2.60  305.0  15.0 295.2  2.0   0  0.00  76.  996.   3 NAD-SFC NoSubs
 8  7  6 188  3  -30.2  0.297 -9.000 -9.000 -999.  388.     77.0  0.2720  0.52  1.00  3.10  309.0  15.0 294.8  2.0   0  0.00  77.  997.   3 NAD-SFC NoSubs
 8  7  6 188  4  -30.2  0.297 -9.000 -9.000 -999.  388.     76.8  0.2720  0.52  1.00  3.10  327.0  15.0 294.1  2.0   0  0.00  81.  997.   3 NAD-SFC NoSubs
 8  7  6 188  5  -25.6  0.252 -9.000 -9.000 -999.  304.     55.3  0.2930  0.52  1.00  2.60  344.0  15.0 293.4  2.0   0  0.00  85.  997.   2 NAD-SFC NoSubs
 8  7  6 188  6   -8.4  0.206 -9.000 -9.000 -999.  225.     92.8  0.2930  0.52  0.48  2.10  352.0  15.0 293.1  2.0   0  0.00  87.  997.   2 NAD-SFC NoSubs
 8  7  6 188  7   36.8 -9.000 -9.000 -9.000  159. -999. -99999.0  0.2235  0.52  0.28  0.00    0.0  15.0 294.2  2.0   0  0.00  78.  997.   2 NAD-SFC NoSubs
 8  7  6 188  8   82.7 -9.000 -9.000 -9.000  310. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0 296.4  2.0   0  0.00  69.  997.   2 NAD-SFC NoSubs
 8  7  6 188  9  123.0 -9.000 -9.000 -9.000  495. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0 298.2  2.0   0  0.00  63.  997.   2 NAD-SFC NoSubs
 8  7  6 188 10  155.1 -9.000 -9.000 -9.000  696. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 299.8  2.0   0  0.00  57.  996.   2 NAD-SFC NoSubs
 8  7  6 188 11  177.9 -9.000 -9.000 -9.000  934. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 301.4  2.0   0  0.00  52.  995.   2 NAD-SFC NoSubs
 8  7  6 188 12  189.6 -9.000 -9.000 -9.000 1035. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 303.0  2.0   0  0.00  47.  995.   2 NAD-SFC NoSubs
 8  7  6 188 13  190.6  0.121  1.811  0.011 1106.  102.     -1.0  0.2720  0.52  0.19  0.50  329.0  15.0 304.2  2.0   0  0.00  42.  994.   2 NAD-SFC NoSubs
 8  7  6 188 14  181.0  0.123  1.814  0.011 1171.  103.     -1.0  0.2930  0.52  0.19  0.50  347.0  15.0 305.1  2.0   0  0.00  39.  993.   2 NAD-SFC NoSubs
 8  7  6 188 15  160.2  0.182  1.768  0.011 1225.  186.     -3.3  0.2930  0.52  0.19  1.00  360.0  15.0 305.8  2.0   0  0.00  37.  993.   2 NAD-SFC NoSubs
 8  7  6 188 16  129.5 -9.000 -9.000 -9.000 1267. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0 306.0  2.0   0  0.00  36.  992.   2 NAD-SFC NoSubs
 8  7  6 188 17   90.3  0.323  1.489  0.011 1294.  441.    -33.1  0.2940  0.52  0.22  2.60   10.0  15.0 305.8  2.0   0  0.00  40.  992.   2 NAD-SFC NoSubs
 8  7  6 188 18   45.1  0.306  1.185  0.011 1307.  407.    -56.3  0.2940  0.52  0.27  2.60   15.0  15.0 305.0  2.0   0  0.00  49.  992.   2 NAD-SFC NoSubs
 8  7  6 188 19    0.9  0.317  0.326  0.011 1306.  428.  -2997.6  0.2940  0.52  0.46  3.10   14.0  15.0 304.1  2.0   0  0.00  51.  993.   2 NAD-SFC NoSubs
 8  7  6 188 20   -3.4 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0 302.9  2.0   0  0.00  54.  993.   3 NAD-SFC NoSubs
 8  7  6 188 21   -7.7  0.137 -9.000 -9.000 -999.  121.     29.6  0.2720  0.52  1.00  1.50  319.0  15.0 301.8  2.0   0  0.00  57.  993.   3 NAD-SFC NoSubs
 8  7  6 188 22  -37.2  0.373 -9.000 -9.000 -999.  546.    123.5  0.2160  0.52  1.00  4.10  279.0  15.0 299.5  2.0   0  0.00  65.  993.   3 NAD-SFC NoSubs
 8  7  6 188 23  -33.5  0.325 -9.000 -9.000 -999.  447.     91.0  0.2160  0.52  1.00  3.60  288.0  15.0 297.5  2.0   0  0.00  73.  994.   2 NAD-SFC NoSubs
 8  7  6 188 24  -22.0  0.231 -9.000 -9.000 -999.  270.     49.5  0.2160  0.52  1.00  2.60  296.0  15.0 296.9  2.0   0  0.00  73.  994.   2 NAD-SFC NoSubs
 8  7  7 189  1  -24.5  0.246 -9.000 -9.000 -999.  293.     54.0  0.2720  0.52  1.00  2.60  310.0  15.0 296.4  2.0   0  0.00  73.  994.   2 NAD-SFC NoSubs
 8  7  7 189  2   -7.9  0.137 -9.000 -9.000 -999.  127.     28.9  0.2720  0.52  1.00  1.50  322.0  15.0 295.9  2.0   0  0.00  74.  994.   2 NAD-SFC NoSubs
 8  7  7 189  3   -3.8  0.100 -9.000 -9.000 -999.   76.     23.3  0.2720  0.52  1.00  1.00  326.0  15.0 295.5  2.0   0  0.00  76.  995.   2 NAD-SFC NoSubs
 8  7  7 189  4   -3.9  0.100 -9.000 -9.000 -999.   76.     23.3  0.2720  0.52  1.00  1.00  326.0  15.0 295.1  2.0   0  0.00  77.  995.   2 NAD-SFC NoSubs
 8  7  7 189  5   -3.6  0.096 -9.000 -9.000 -999.   72.     22.4  0.2160  0.52  1.00  1.00  298.0  15.0 294.8  2.0   0  0.00  79.  996.   2 NAD-SFC NoSubs
 8  7  7 189  6   -2.0  0.086 -9.000 -9.000 -999.   60.     28.6  0.2160  0.52  0.48  1.00  295.0  15.0 294.6  2.0   0  0.00  80.  996.   2 NAD-SFC NoSubs
 8  7  7 189  7   37.2  0.197  0.501  0.007  120.  210.    -18.3  0.2720  0.52  0.28  1.50  320.0  15.0 296.4  2.0   0  0.00  75.  996.   2 NAD-SFC NoSubs
 8  7  7 189  8   83.1 -9.000 -9.000 -9.000  242. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0 298.2  2.0   0  0.00  71.  996.   2 NAD-SFC NoSubs
 8  7  7 189  9  123.7 -9.000 -9.000 -9.000  384. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0 300.5  2.0   0  0.00  61.  996.   2 NAD-SFC NoSubs
 8  7  7 189 10  156.3 -9.000 -9.000 -9.000  658. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 302.5  2.0   0  0.00  53.  995.   2 NAD-SFC NoSubs
 8  7  7 189 11  179.3 -9.000 -9.000 -9.000  888. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 304.5  2.0   0  0.00  43.  995.   2 NAD-SFC NoSubs
 8  7  7 189 12  191.2 -9.000 -9.000 -9.000 1010. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 306.2  2.0   0  0.00  36.  994.   2 NAD-SFC NoSubs
 8  7  7 189 13  192.4 -9.000 -9.000 -9.000 1072. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 307.6  2.0   0  0.00  32.  993.   2 NAD-SFC NoSubs
 8  7  7 189 14  183.0 -9.000 -9.000 -9.000 1128. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 308.8  2.0   0  0.00  29.  993.   2 NAD-SFC NoSubs
 8  7  7 189 15  162.2  0.121  1.752  0.009 1176.  101.     -1.0  0.2940  0.52  0.19  0.50   15.0  15.0 309.2  2.0   0  0.00  28.  992.   2 NAD-SFC NoSubs
 8  7  7 189 16  131.5  0.230  1.651  0.008 1213.  264.     -8.1  0.2940  0.52  0.20  1.50   23.0  15.0 309.5  2.0   0  0.00  28.  992.   2 NAD-SFC NoSubs
 8  7  7 189 17   92.1  0.278  1.476  0.008 1237.  352.    -20.6  0.2940  0.52  0.22  2.10   23.0  15.0 308.9  2.0   0  0.00  36.  992.   2 NAD-SFC NoSubs
 8  7  7 189 18   46.8  0.353  1.182  0.007 1248.  503.    -82.9  0.2940  0.52  0.27  3.10   16.0  15.0 308.1  2.0   0  0.00  44.  992.   2 NAD-SFC NoSubs
 8  7  7 189 19    2.5  0.369  0.442  0.007 1247.  538.  -1816.4  0.2940  0.52  0.46  3.60    9.0  15.0 307.0  2.0   0  0.00  47.  993.   2 NAD-SFC NoSubs
 8  7  7 189 20  -39.8  0.397 -9.000 -9.000 -999.  601.    139.5  0.2720  0.52  1.00  4.10  317.0  15.0 305.8  2.0   0  0.00  50.  993.   2 NAD-SFC NoSubs
 8  7  7 189 21  -47.4  0.468 -9.000 -9.000 -999.  767.    191.0  0.2160  0.52  1.00  5.10  291.0  15.0 302.0  2.0   0  0.00  62.  993.   2 NAD-SFC NoSubs
 8  7  7 189 22  -38.1  0.373 -9.000 -9.000 -999.  553.    120.5  0.2160  0.52  1.00  4.10  288.0  15.0 300.1  2.0   0  0.00  64.  994.   2 NAD-SFC NoSubs
 8  7  7 189 23  -30.4  0.297 -9.000 -9.000 -999.  391.     76.2  0.2720  0.52  1.00  3.10  308.0  15.0 299.4  2.0   0  0.00  63.  994.   2 NAD-SFC NoSubs
 8  7  7 189 24  -25.3  0.252 -9.000 -9.000 -999.  304.     55.9  0.2930  0.52  1.00  2.60  333.0  15.0 298.9  2.0   0  0.00  62.  994.   2 NAD-SFC NoSubs
 8  7  8 190  1   -8.1  0.140 -9.000 -9.000 -999.  132.     29.9  0.2940  0.52  1.00  1.50   13.0  15.0 298.4  2.0   0  0.00  64.  994.   2 NAD-SFC NoSubs
 8  7  8 190  2   -7.5  0.133 -9.000 -9.000 -999.  117.     28.0  0.2470  0.52  1.00  1.50   42.0  15.0 297.8  2.0   0  0.00  66.  994.   2 NAD-SFC NoSubs
 8  7  8 190  3   -3.7  0.098 -9.000 -9.000 -999.   74.     22.9  0.2470  0.52  1.00  1.00   52.0  15.0 297.4  2.0   0  0.00  67.  995.   2 NAD-SFC NoSubs
 8  7  8 190  4   -1.5  0.080 -9.000 -9.000 -999.   54.     31.2  0.2090  0.52  1.00  0.50   80.0  15.0 296.8  2.0   0  0.00  69.  995.   2 NAD-SFC NoSubs
 8  7  8 190  5   -1.5  0.080 -9.000 -9.000 -999.   54.     31.2  0.2090  0.52  1.00  0.50   78.0  15.0 296.1  2.0   0  0.00  72.  995.   2 NAD-SFC NoSubs
 8  7  8 190  6   -0.6  0.055 -9.000 -9.000 -999.   31.     23.7  0.2090  0.52  0.49  0.50   67.0  15.0 295.8  2.0   0  0.00  74.  996.   2 NAD-SFC NoSubs
 8  7  8 190  7   37.6 -9.000 -9.000 -9.000  113. -999. -99999.0  0.2235  0.52  0.28  0.00    0.0  15.0 298.2  2.0   0  0.00  62.  996.   2 NAD-SFC NoSubs
 8  7  8 190  8   83.8 -9.000 -9.000 -9.000  230. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0 300.4  2.0   0  0.00  53.  996.   2 NAD-SFC NoSubs
 8  7  8 190  9  124.4 -9.000 -9.000 -9.000  382. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0 302.4  2.0   0  0.00  48.  995.   2 NAD-SFC NoSubs
 8  7  8 190 10  157.0 -9.000 -9.000 -9.000  613. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 304.4  2.0   0  0.00  43.  995.   2 NAD-SFC NoSubs
 8  7  8 190 11  180.1 -9.000 -9.000 -9.000  750. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 306.2  2.0   0  0.00  39.  994.   2 NAD-SFC NoSubs
 8  7  8 190 12  192.1 -9.000 -9.000 -9.000  860. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 307.9  2.0   0  0.00  34.  993.   2 NAD-SFC NoSubs
 8  7  8 190 13  193.3 -9.000 -9.000 -9.000  959. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 309.2  2.0   0  0.00  31.  992.   2 NAD-SFC NoSubs
 8  7  8 190 14  184.1 -9.000 -9.000 -9.000 1040. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 310.4  2.0   0  0.00  29.  992.   2 NAD-SFC NoSubs
 8  7  8 190 15  163.4  0.116  1.722  0.008 1107.   95.     -1.0  0.2470  0.52  0.19  0.50   58.0  15.0 311.2  2.0   0  0.00  27.  991.   2 NAD-SFC NoSubs
 8  7  8 190 16  132.6  0.221  1.630  0.007 1157.  250.     -7.2  0.2470  0.52  0.20  1.50   36.0  15.0 311.2  2.0   0  0.00  29.  991.   2 NAD-SFC NoSubs
 8  7  8 190 17   93.0  0.312  1.462  0.007 1189.  419.    -28.9  0.2470  0.52  0.22  2.60   44.0  15.0 310.4  2.0   0  0.00  39.  991.   2 NAD-SFC NoSubs
 8  7  8 190 18   47.8  0.307  1.177  0.007 1206.  409.    -53.7  0.2940  0.52  0.27  2.60   26.0  15.0 309.9  2.0   0  0.00  44.  991.   2 NAD-SFC NoSubs
 8  7  8 190 19    3.5  0.164  0.492  0.007 1205.  173.   -111.0  0.2720  0.52  0.46  1.50  326.0  15.0 308.9  2.0   0  0.00  45.  991.   2 NAD-SFC NoSubs
 8  7  8 190 20  -46.7  0.468 -9.000 -9.000 -999.  768.    194.1  0.2160  0.52  1.00  5.10  295.0  15.0 306.8  2.0   0  0.00  51.  992.   2 NAD-SFC NoSubs
 8  7  8 190 21  -42.5  0.420 -9.000 -9.000 -999.  656.    154.3  0.2160  0.52  1.00  4.60  291.0  15.0 302.5  2.0   0  0.00  62.  992.   2 NAD-SFC NoSubs
 8  7  8 190 22  -38.0  0.373 -9.000 -9.000 -999.  548.    120.7  0.2160  0.52  1.00  4.10  294.0  15.0 300.8  2.0   0  0.00  62.  993.   2 NAD-SFC NoSubs
 8  7  8 190 23  -35.4  0.347 -9.000 -9.000 -999.  491.    104.3  0.2720  0.52  1.00  3.60  310.0  15.0 299.9  2.0   0  0.00  61.  993.   2 NAD-SFC NoSubs
 8  7  8 190 24  -31.0  0.303 -9.000 -9.000 -999.  402.     79.5  0.2930  0.52  1.00  3.10  354.0  15.0 299.2  2.0   0  0.00  61.  993.   2 NAD-SFC NoSubs
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 8  7  9 191   1  -29.6   0.289  -9.000  -9.000  -999.   372.     71.9  0.2470   0.52   1.00   3.10   45.0   15.0  298.5   2.0    0   0.00   62.   994.     2 NAD-SFC NoSubs
 8  7  9 191   2   -3.7   0.098  -9.000  -9.000  -999.   119.     22.9  0.2470   0.52   1.00   1.00   41.0   15.0  298.4   2.0    0   0.00   60.   994.     2 NAD-SFC NoSubs
 8  7  9 191   3   -3.4   0.095  -9.000  -9.000  -999.    70.     22.0  0.1950   0.52   1.00   1.00  222.0   15.0  298.2   2.0    0   0.00   59.   995.     2 NAD-SFC NoSubs
 8  7  9 191   4   -6.7   0.125  -9.000  -9.000  -999.   106.     25.7  0.1900   0.52   1.00   1.50  194.0   15.0  297.6   2.0    0   0.00   62.   995.     2 NAD-SFC NoSubs
 8  7  9 191   5   -6.7   0.125  -9.000  -9.000  -999.   106.     25.6  0.1900   0.52   1.00   1.50  191.0   15.0  297.1   2.0    0   0.00   64.   996.     2 NAD-SFC NoSubs
 8  7  9 191   6   -1.8   0.082  -9.000  -9.000  -999.    57.     27.1  0.1810   0.52   0.49   1.00  179.0   15.0  297.0   2.0    0   0.00   65.   996.     2 NAD-SFC NoSubs
 8  7  9 191   7   37.7  -9.000  -9.000  -9.000   100.  -999.  -99999.0  0.2235   0.52   0.29   0.00    0.0   15.0  299.2   2.0    0   0.00   57.   996.     2 NAD-SFC NoSubs
 8  7  9 191   8   83.8  -9.000  -9.000  -9.000   255.  -999.  -99999.0  0.2235   0.52   0.22   0.00    0.0   15.0  301.2   2.0    0   0.00   51.   996.     2 NAD-SFC NoSubs
 8  7  9 191   9  124.5  -9.000  -9.000  -9.000   436.  -999.  -99999.0  0.2235   0.52   0.20   0.00    0.0   15.0  303.1   2.0    0   0.00   47.   995.     2 NAD-SFC NoSubs
 8  7  9 191  10  156.9  -9.000  -9.000  -9.000   630.  -999.  -99999.0  0.2235   0.52   0.19   0.00    0.0   15.0  304.6   2.0    0   0.00   45.   995.     2 NAD-SFC NoSubs
 8  7  9 191  11  180.0  -9.000  -9.000  -9.000   802.  -999.  -99999.0  0.2235   0.52   0.19   0.00    0.0   15.0  306.4   2.0    0   0.00   42.   994.     2 NAD-SFC NoSubs
 8  7  9 191  12  192.1  -9.000  -9.000  -9.000   953.  -999.  -99999.0  0.2235   0.52   0.19   0.00    0.0   15.0  308.1   2.0    0   0.00   38.   994.     2 NAD-SFC NoSubs
 8  7  9 191  13  193.4  -9.000  -9.000  -9.000  1046.  -999.  -99999.0  0.2235   0.52   0.19   0.00    0.0   15.0  309.5   2.0    0   0.00   34.   993.     2 NAD-SFC NoSubs
 8  7  9 191  14  184.0  -9.000  -9.000  -9.000  1122.  -999.  -99999.0  0.2235   0.52   0.19   0.00    0.0   15.0  310.5   2.0    0   0.00   32.   992.     2 NAD-SFC NoSubs
 8  7  9 191  15  163.3   0.183   1.761   0.010  1185.   187.     -3.3  0.2940   0.52   0.19   1.00    6.0   15.0  311.1   2.0    0   0.00   30.   992.     2 NAD-SFC NoSubs
 8  7  9 191  16  132.4   0.288   1.664   0.010  1234.   371.    -15.9  0.2940   0.52   0.20   2.10   20.0   15.0  311.1   2.0    0   0.00   32.   992.     2 NAD-SFC NoSubs
 8  7  9 191  17   92.8   0.312   1.491   0.010  1265.   418.    -29.0  0.2470   0.52   0.22   2.60   32.0   15.0  310.2   2.0    0   0.00   43.   992.     2 NAD-SFC NoSubs
 8  7  9 191  18   47.7   0.353   1.199   0.010  1281.   503.    -81.5  0.2930   0.52   0.28   3.10  359.0   15.0  309.9   2.0    0   0.00   47.   992.     2 NAD-SFC NoSubs
 8  7  9 191  19    3.4   0.461   0.495   0.010  1279.   752.  -2589.9  0.2720   0.52   0.46   4.60  312.0   15.0  308.9   2.0    0   0.00   48.   993.     2 NAD-SFC NoSubs
 8  7  9 191  20  -47.0   0.468  -9.000  -9.000  -999.   768.    193.1  0.2160   0.52   1.00   5.10  284.0   15.0  305.2   2.0    0   0.00   55.   993.     2 NAD-SFC NoSubs
 8  7  9 191  21  -42.6   0.420  -9.000  -9.000  -999.   656.    154.2  0.2160   0.52   1.00   4.60  274.0   15.0  302.2   2.0    0   0.00   58.   993.     2 NAD-SFC NoSubs
 8  7  9 191  22  -28.3   0.278  -9.000  -9.000  -999.   367.     67.5  0.2160   0.52   1.00   3.10  279.0   15.0  301.5   2.0    0   0.00   56.   993.     2 NAD-SFC NoSubs
 8  7  9 191  23   -8.1   0.140  -9.000  -9.000  -999.   141.     30.0  0.2930   0.52   1.00   1.50  351.0   15.0  301.0   2.0    0   0.00   54.   994.     2 NAD-SFC NoSubs
 8  7  9 191  24  -16.2   0.200  -9.000  -9.000  -999.   215.     43.9  0.2940   0.52   1.00   2.10   24.0   15.0  300.6   2.0    0   0.00   54.   994.     2 NAD-SFC NoSubs
 8  7 10 192   1  -23.2   0.239  -9.000  -9.000  -999.   281.     52.3  0.2470   0.52   1.00   2.60   36.0   15.0  299.8   2.0    0   0.00   56.   994.     2 NAD-SFC NoSubs
 8  7 10 192   2  -14.9   0.190  -9.000  -9.000  -999.   200.     40.8  0.2470   0.52   1.00   2.10   42.0   15.0  299.2   2.0    0   0.00   56.   994.     2 NAD-SFC NoSubs
 8  7 10 192   3  -16.3   0.200  -9.000  -9.000  -999.   215.     43.7  0.2940   0.52   1.00   2.10   21.0   15.0  298.5   2.0    0   0.00   58.   994.     2 NAD-SFC NoSubs
 8  7 10 192   4   -3.9   0.102  -9.000  -9.000  -999.    82.     23.7  0.2940   0.52   1.00   1.00   24.0   15.0  297.8   2.0    0   0.00   60.   994.     2 NAD-SFC NoSubs
 8  7 10 192   5   -1.4   0.079  -9.000  -9.000  -999.    53.     30.9  0.1900   0.52   1.00   0.50  191.0   15.0  297.2   2.0    0   0.00   61.   995.     2 NAD-SFC NoSubs
 8  7 10 192   6   -0.6   0.055  -9.000  -9.000  -999.    31.     23.7  0.1950   0.52   0.49   0.50  237.0   15.0  297.1   2.0    0   0.00   62.   995.     2 NAD-SFC NoSubs
 8  7 10 192   7   37.3   0.188   0.509   0.011   125.   195.    -15.7  0.2160   0.52   0.29   1.50  295.0   15.0  299.1   2.0    0   0.00   54.   995.     2 NAD-SFC NoSubs
 8  7 10 192   8   83.4   0.165   0.818   0.011   233.   161.     -4.8  0.2720   0.52   0.22   1.00  301.0   15.0  300.9   2.0    0   0.00   51.   995.     2 NAD-SFC NoSubs
 8  7 10 192   9  124.1  -9.000  -9.000  -9.000   353.  -999.  -99999.0  0.2235   0.52   0.20   0.00    0.0   15.0  303.0   2.0    0   0.00   46.   995.     2 NAD-SFC NoSubs
 8  7 10 192  10  156.8  -9.000  -9.000  -9.000   509.  -999.  -99999.0  0.2235   0.52   0.19   0.00    0.0   15.0  304.8   2.0    0   0.00   42.   994.     2 NAD-SFC NoSubs
 8  7 10 192  11  179.8  -9.000  -9.000  -9.000   663.  -999.  -99999.0  0.2235   0.52   0.19   0.00    0.0   15.0  306.4   2.0    0   0.00   40.   994.     2 NAD-SFC NoSubs
 8  7 10 192  12  191.9  -9.000  -9.000  -9.000   846.  -999.  -99999.0  0.2235   0.52   0.19   0.00    0.0   15.0  308.0   2.0    0   0.00   38.   993.     2 NAD-SFC NoSubs
 8  7 10 192  13  193.1   0.119   1.753   0.009   990.    99.     -1.0  0.2470   0.52   0.19   0.50   58.0   15.0  309.2   2.0    0   0.00   35.   993.     2 NAD-SFC NoSubs
 8  7 10 192  14  183.8   0.185   1.777   0.009  1082.   192.     -3.1  0.2940   0.52   0.19   1.00   24.0   15.0  310.2   2.0    0   0.00   32.   992.     2 NAD-SFC NoSubs
 8  7 10 192  15  163.2   0.236   1.747   0.009  1157.   275.     -7.1  0.2940   0.52   0.19   1.50   14.0   15.0  311.0   2.0    0   0.00   31.   992.     2 NAD-SFC NoSubs
 8  7 10 192  16  132.4   0.230   1.656   0.009  1215.   264.     -8.1  0.2930   0.52   0.20   1.50  352.0   15.0  311.2   2.0    0   0.00   31.   992.     2 NAD-SFC NoSubs
 8  7 10 192  17   93.0   0.273   1.487   0.009  1252.   343.    -19.5  0.2720   0.52   0.22   2.10  309.0   15.0  310.6   2.0    0   0.00   41.   992.     2 NAD-SFC NoSubs
 8  7 10 192  18   47.4   0.416   1.193   0.009  1269.   645.   -134.8  0.2160   0.52   0.28   4.10  279.0   15.0  309.8   2.0    0   0.00   47.   992.     2 NAD-SFC NoSubs
 8  7 10 192  19    1.7   0.482   0.394   0.009  1262.   803.  -5797.1  0.2160   0.52   0.46   5.10  274.0   15.0  306.4   2.0    0   0.00   52.   993.     2 NAD-SFC NoSubs
 8  7 10 192  20  -40.2   0.398  -9.000  -9.000  -999.   608.    138.8  0.1750   0.52   1.00   4.60  258.0   15.0  303.0   2.0    0   0.00   59.   993.     2 NAD-SFC NoSubs
 8  7 10 192  21  -40.6   0.398  -9.000  -9.000  -999.   603.    137.7  0.1750   0.52   1.00   4.60  260.0   15.0  300.8   2.0    0   0.00   63.   994.     2 NAD-SFC NoSubs
 8  7 10 192  22  -33.3   0.325  -9.000  -9.000  -999.   449.     91.7  0.2160   0.52   1.00   3.60  272.0   15.0  299.8   2.0    0   0.00   63.   994.     2 NAD-SFC NoSubs
 8  7 10 192  23  -24.1   0.246  -9.000  -9.000  -999.   297.     55.1  0.2720   0.52   1.00   2.60  303.0   15.0  299.2   2.0    0   0.00   63.   994.     3 NAD-SFC NoSubs
 8  7 10 192  24  -23.0   0.240  -9.000  -9.000  -999.   282.     53.1  0.2470   0.52   1.00   2.60   36.0   15.0  299.2   2.0    0   0.00   62.   995.     3 NAD-SFC NoSubs
 8  7 11 193   1  -28.9   0.289  -9.000  -9.000  -999.   372.     73.9  0.2470   0.52   1.00   3.10   53.0   15.0  298.9   2.0    0   0.00   63.   995.     3 NAD-SFC NoSubs
 8  7 11 193   2  -16.1   0.200  -9.000  -9.000  -999.   219.     44.4  0.2940   0.52   1.00   2.10   23.0   15.0  298.2   2.0    0   0.00   64.   996.     3 NAD-SFC NoSubs
 8  7 11 193   3  -16.1   0.200  -9.000  -9.000  -999.   215.     44.3  0.2940   0.52   1.00   2.10    3.0   15.0  297.6   2.0    0   0.00   66.   996.     3 NAD-SFC NoSubs
 8  7 11 193   4  -16.1   0.200  -9.000  -9.000  -999.   215.     44.2  0.2930   0.52   1.00   2.10  354.0   15.0  296.8   2.0    0   0.00   68.   997.     3 NAD-SFC NoSubs
 8  7 11 193   5   -8.1   0.140  -9.000  -9.000  -999.   126.     30.1  0.2930   0.52   1.00   1.50  337.0   15.0  296.1   2.0    0   0.00   69.   997.     3 NAD-SFC NoSubs
 8  7 11 193   6   -5.6   0.144  -9.000  -9.000  -999.   131.     47.5  0.2930   0.52   0.50   1.50  340.0   15.0  295.9   2.0    0   0.00   70.   998.     2 NAD-SFC NoSubs
 8  7 11 193   7   36.3   0.282   0.553   0.008   166.   359.    -54.8  0.2160   0.52   0.29   2.60  280.0   15.0  297.8   2.0    0   0.00   62.   998.     2 NAD-SFC NoSubs
 8  7 11 193   8   82.4   0.165   0.881   0.008   295.   167.     -4.8  0.2720   0.52   0.22   1.00  314.0   15.0  299.4   2.0    0   0.00   55.   998.     2 NAD-SFC NoSubs
 8  7 11 193   9  122.9  -9.000  -9.000  -9.000   444.  -999.  -99999.0  0.2235   0.52   0.20   0.00    0.0   15.0  300.9   2.0    0   0.00   51.   998.     2 NAD-SFC NoSubs
 8  7 11 193  10  155.3  -9.000  -9.000  -9.000   627.  -999.  -99999.0  0.2235   0.52   0.19   0.00    0.0   15.0  302.2   2.0    0   0.00   47.   998.     2 NAD-SFC NoSubs
 8  7 11 193  11  178.1  -9.000  -9.000  -9.000   770.  -999.  -99999.0  0.2235   0.52   0.19   0.00    0.0   15.0  303.6   2.0    0   0.00   44.   998.     2 NAD-SFC NoSubs
 8  7 11 193  12  189.9  -9.000  -9.000  -9.000   895.  -999.  -99999.0  0.2235   0.52   0.19   0.00    0.0   15.0  304.8   2.0    0   0.00   42.   998.     2 NAD-SFC NoSubs
 8  7 11 193  13  190.7  -9.000  -9.000  -9.000  1061.  -999.  -99999.0  0.2235   0.52   0.19   0.00    0.0   15.0  305.9   2.0    0   0.00   40.   997.     3 NAD-SFC NoSubs
 8  7 11 193  14  181.4  -9.000  -9.000  -9.000  1292.  -999.  -99999.0  0.2235   0.52   0.19   0.00    0.0   15.0  306.9   2.0    0   0.00   39.   996.     3 NAD-SFC NoSubs
 8  7 11 193  15  160.9   0.121   1.843   0.009  1384.   101.     -1.0  0.2940   0.52   0.19   0.50   21.0   15.0  307.5   2.0    0   0.00   38.   996.     3 NAD-SFC NoSubs
 8  7 11 193  16  130.4   0.229   1.738   0.009  1432.   264.     -8.2  0.2940   0.52   0.20   1.50   16.0   15.0  307.8   2.0    0   0.00   38.   996.     3 NAD-SFC NoSubs
 8  7 11 193  17   91.8   0.221   1.558   0.009  1464.   249.    -10.4  0.2930   0.52   0.22   1.50  349.0   15.0  307.9   2.0    0   0.00   39.   996.     3 NAD-SFC NoSubs
 8  7 11 193  18   47.0   0.287   1.250   0.009  1479.   369.    -44.8  0.2160   0.52   0.28   2.60  283.0   15.0  307.5   2.0    0   0.00   48.   997.     3 NAD-SFC NoSubs
 8  7 11 193  19    1.6   0.482   0.404   0.009  1473.   803.  -6268.9  0.2160   0.52   0.46   5.10  270.0   15.0  303.8   2.0    0   0.00   59.   997.     3 NAD-SFC NoSubs
 8  7 11 193  20  -41.9   0.420  -9.000  -9.000  -999.   657.    157.5  0.2160   0.52   1.00   4.60  274.0   15.0  300.6   2.0    0   0.00   65.   997.     3 NAD-SFC NoSubs
 8  7 11 193  21  -37.4   0.373  -9.000  -9.000  -999.   548.    123.2  0.2160   0.52   1.00   4.10  288.0   15.0  298.8   2.0    0   0.00   68.   998.     3 NAD-SFC NoSubs
 8  7 11 193  22  -29.9   0.297  -9.000  -9.000  -999.   391.     77.8  0.2720   0.52   1.00   3.10  313.0   15.0  297.9   2.0    0   0.00   69.   999.     3 NAD-SFC NoSubs
 8  7 11 193  23  -25.2   0.252  -9.000  -9.000  -999.   304.     56.6  0.2930   0.52   1.00   2.60  332.0   15.0  297.4   2.0    0   0.00   69.  1000.     3 NAD-SFC NoSubs
 8  7 11 193  24 -999.0  -9.000  -9.000  -9.000  -999.  -999.  -99999.0  0.2235   0.52   1.00   0.00    0.0   15.0  296.9   2.0    0   0.00   70.  1000.     3 NAD-SFC NoSubs
 8  7 12 194   1  -25.3   0.252  -9.000  -9.000  -999.   304.     56.5  0.2940   0.52   1.00   2.60   19.0   15.0  296.2   2.0    0   0.00   71.  1001.     3 NAD-SFC NoSubs
 8  7 12 194   2  -34.4   0.338  -9.000  -9.000  -999.   471.    100.0  0.2470   0.52   1.00   3.60   39.0   15.0  295.8   2.0    0   0.00   74.  1001.     3 NAD-SFC NoSubs
 8  7 12 194   3  -31.0   0.304  -9.000  -9.000  -999.   402.     80.7  0.2940   0.52   1.00   3.10   28.0   15.0  295.1   2.0    0   0.00   76.  1002.     3 NAD-SFC NoSubs
 8  7 12 194   4  -25.4   0.252  -9.000  -9.000  -999.   305.     56.4  0.2940   0.52   1.00   2.60    6.0   15.0  294.8   2.0    0   0.00   76.  1002.     3 NAD-SFC NoSubs
 8  7 12 194   5  -16.3   0.200  -9.000  -9.000  -999.   216.     44.0  0.2940   0.52   1.00   2.10    9.0   15.0  294.4   2.0    0   0.00   76.  1003.     3 NAD-SFC NoSubs
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 8  7 12 194  6   -5.4  0.144 -9.000 -9.000 -999.  132.     49.7  0.2940  0.52  0.50  1.50   8.0  15.0 294.5  2.0   0  0.00  75.  1003.   3 NAD-SFC NoSubs
 8  7 12 194  7   36.3  0.152  0.576  0.010  188.  142.     -8.6  0.2930  0.52  0.29  1.00 340.0  15.0 295.8  2.0   0  0.00  67.  1003.   3 NAD-SFC NoSubs
 8  7 12 194  8   82.0 -9.000 -9.000 -9.000  331. -999. -99999.0  0.2235  0.52  0.22  0.00   0.0  15.0 297.5  2.0   0  0.00  62.  1003.   3 NAD-SFC NoSubs
 8  7 12 194  9  122.2 -9.000 -9.000 -9.000  466. -999. -99999.0  0.2235  0.52  0.20  0.00   0.0  15.0 299.2  2.0   0  0.00  57.  1003.   3 NAD-SFC NoSubs
 8  7 12 194 10  154.6 -9.000 -9.000 -9.000  591. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 301.1  2.0   0  0.00  53.  1002.   3 NAD-SFC NoSubs
 8  7 12 194 11  177.3 -9.000 -9.000 -9.000  712. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 302.8  2.0   0  0.00  48.  1002.   3 NAD-SFC NoSubs
 8  7 12 194 12  189.6 -9.000 -9.000 -9.000  826. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 304.4  2.0   0  0.00  45.  1001.   2 NAD-SFC NoSubs
 8  7 12 194 13  190.8  0.121  1.705  0.006  928.  101.     -1.0  0.2720  0.52  0.19  0.50 302.0  15.0 305.8  2.0   0  0.00  42.  1000.   2 NAD-SFC NoSubs
 8  7 12 194 14  181.3  0.185  1.748  0.006 1051.  191.     -3.1  0.2930  0.52  0.19  1.00 352.0  15.0 306.5  2.0   0  0.00  40.   999.   2 NAD-SFC NoSubs
 8  7 12 194 15  160.4  0.294  1.742  0.007 1176.  382.    -14.0  0.2940  0.52  0.19  2.10   7.0  15.0 306.9  2.0   0  0.00  40.   999.   2 NAD-SFC NoSubs
 8  7 12 194 16  129.9  0.380  1.664  0.007 1267.  562.    -37.6  0.2940  0.52  0.20  3.10   7.0  15.0 307.0  2.0   0  0.00  41.   999.   3 NAD-SFC NoSubs
 8  7 12 194 17   91.1  0.323  1.502  0.007 1327.  443.    -33.1  0.2940  0.52  0.22  2.60  14.0  15.0 306.9  2.0   0  0.00  44.   998.   3 NAD-SFC NoSubs
 8  7 12 194 18   46.4  0.205  1.207  0.007 1351.  230.    -16.4  0.2930  0.52  0.28  1.50 357.0  15.0 306.9  2.0   0  0.00  49.   999.   3 NAD-SFC NoSubs
 8  7 12 194 19    2.9  0.412  0.479  0.007 1351.  634.  -2155.5  0.2720  0.52  0.46  4.10 302.0  15.0 306.4  2.0   0  0.00  50.   999.   3 NAD-SFC NoSubs
 8  7 12 194 20  -46.6  0.468 -9.000 -9.000 -999.  768.    196.0  0.2160  0.52  1.00  5.10 280.0  15.0 301.8  2.0   0  0.00  62.  1000.   3 NAD-SFC NoSubs
 8  7 12 194 21  -42.2  0.420 -9.000 -9.000 -999.  656.    156.7  0.2160  0.52  1.00  4.60 278.0  15.0 299.2  2.0   0  0.00  67.  1000.   3 NAD-SFC NoSubs
 8  7 12 194 22  -37.7  0.373 -9.000 -9.000 -999.  548.    122.7  0.2160  0.52  1.00  4.10 289.0  15.0 297.8  2.0   0  0.00  70.  1001.   3 NAD-SFC NoSubs
 8  7 12 194 23  -24.3  0.246 -9.000 -9.000 -999.  303.     54.9  0.2720  0.52  1.00  2.60 307.0  15.0 297.0  2.0   0  0.00  71.  1001.   3 NAD-SFC NoSubs
 8  7 12 194 24  -25.3  0.252 -9.000 -9.000 -999.  304.     56.6  0.2940  0.52  1.00  2.60   8.0  15.0 296.8  2.0   0  0.00  70.  1001.   3 NAD-SFC NoSubs
 8  7 13 195  1  -29.4  0.289 -9.000 -9.000 -999.  372.     73.2  0.2470  0.52  1.00  3.10  38.0  15.0 296.2  2.0   0  0.00  72.  1002.   3 NAD-SFC NoSubs
 8  7 13 195  2  -36.2  0.355 -9.000 -9.000 -999.  507.    110.5  0.2940  0.52  1.00  3.60  23.0  15.0 295.6  2.0   0  0.00  74.  1002.   3 NAD-SFC NoSubs
 8  7 13 195  3  -31.0  0.304 -9.000 -9.000 -999.  403.     80.7  0.2940  0.52  1.00  3.10  14.0  15.0 295.1  2.0   0  0.00  75.  1002.   3 NAD-SFC NoSubs
 8  7 13 195  4  -31.0  0.304 -9.000 -9.000 -999.  401.     80.6  0.2940  0.52  1.00  3.10  11.0  15.0 294.8  2.0   0  0.00  75.  1002.   3 NAD-SFC NoSubs
 8  7 13 195  5  -25.4  0.252 -9.000 -9.000 -999.  305.     56.3  0.2940  0.52  1.00  2.60   8.0  15.0 294.4  2.0   0  0.00  75.  1002.   3 NAD-SFC NoSubs
 8  7 13 195  6   -5.5  0.144 -9.000 -9.000 -999.  137.     48.3  0.2940  0.52  0.50  1.50   3.0  15.0 294.6  2.0   0  0.00  74.  1003.   3 NAD-SFC NoSubs
 8  7 13 195  7   36.0  0.149  0.559  0.010  173.  138.     -8.2  0.2720  0.52  0.29  1.00 312.0  15.0 296.1  2.0   0  0.00  65.  1003.   3 NAD-SFC NoSubs
 8  7 13 195  8   81.7 -9.000 -9.000 -9.000  307. -999. -99999.0  0.2235  0.52  0.22  0.00   0.0  15.0 297.8  2.0   0  0.00  60.  1002.   3 NAD-SFC NoSubs
 8  7 13 195  9  121.9 -9.000 -9.000 -9.000  447. -999. -99999.0  0.2235  0.52  0.20  0.00   0.0  15.0 299.2  2.0   0  0.00  55.  1002.   3 NAD-SFC NoSubs
 8  7 13 195 10  154.2 -9.000 -9.000 -9.000  585. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 300.8  2.0   0  0.00  53.  1001.   3 NAD-SFC NoSubs
 8  7 13 195 11  177.0 -9.000 -9.000 -9.000  724. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 302.4  2.0   0  0.00  50.  1001.   3 NAD-SFC NoSubs
 8  7 13 195 12  188.9 -9.000 -9.000 -9.000  863. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 303.9  2.0   0  0.00  47.  1000.   3 NAD-SFC NoSubs
 8  7 13 195 13  190.1 -9.000 -9.000 -9.000  987. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 305.1  2.0   0  0.00  45.   999.   3 NAD-SFC NoSubs
 8  7 13 195 14  180.7 -9.000 -9.000 -9.000 1122. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 306.0  2.0   0  0.00  42.   998.   3 NAD-SFC NoSubs
 8  7 13 195 15  160.2  0.182  1.768  0.007 1229.  186.     -3.3  0.2940  0.52  0.19  1.00   4.0  15.0 306.8  2.0   0  0.00  41.   997.   3 NAD-SFC NoSubs
 8  7 13 195 16  129.5  0.334  1.682  0.007 1308.  463.    -25.5  0.2940  0.52  0.20  2.60   6.0  15.0 306.6  2.0   0  0.00  42.   997.   3 NAD-SFC NoSubs
 8  7 13 195 17   90.7 -9.000 -9.000 -9.000 1356. -999. -99999.0  0.2235  0.52  0.22  0.00   0.0  15.0 306.6  2.0   0  0.00  44.   997.   3 NAD-SFC NoSubs
 8  7 13 195 18   45.8  0.391  1.210  0.007 1375.  588.    -116.5  0.2720  0.52  0.28  3.60 307.0  15.0 306.2  2.0   0  0.00  52.   998.   3 NAD-SFC NoSubs
 8  7 13 195 19    0.7  0.482  0.294  0.007 1367.  801.   -8888.0  0.2160  0.52  0.47  5.10 295.0  15.0 302.6  2.0   0  0.00  62.   998.   3 NAD-SFC NoSubs
 8  7 13 195 20  -42.1  0.420 -9.000 -9.000 -999.  657.     157.0  0.2160  0.52  1.00  4.60 281.0  15.0 299.6  2.0   0  0.00  67.   999.   3 NAD-SFC NoSubs
 8  7 13 195 21  -47.2  0.468 -9.000 -9.000 -999.  767.     193.2  0.2160  0.52  1.00  5.10 285.0  15.0 297.5  2.0   0  0.00  70.   999.   3 NAD-SFC NoSubs
 8  7 13 195 22  -33.0  0.326 -9.000 -9.000 -999.  461.      93.2  0.2160  0.52  1.00  3.60 286.0  15.0 296.4  2.0   0  0.00  71.   999.   3 NAD-SFC NoSubs
 8  7 13 195 23  -15.6  0.196 -9.000 -9.000 -999.  220.      42.8  0.2720  0.52  1.00  2.10 326.0  15.0 296.0  2.0   0  0.00  71.  1000.   3 NAD-SFC NoSubs
 8  7 13 195 24  -25.3  0.252 -9.000 -9.000 -999.  304.      56.5  0.2940  0.52  1.00  2.60  10.0  15.0 295.6  2.0   0  0.00  70.  1000.   3 NAD-SFC NoSubs
 8  7 14 196  1  -30.9  0.304 -9.000 -9.000 -999.  401.      80.7  0.2940  0.52  1.00  3.10  10.0  15.0 295.0  2.0   0  0.00  72.  1000.   3 NAD-SFC NoSubs
 8  7 14 196  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00   0.0  15.0 294.4  2.0   0  0.00  73.  1000.   3 NAD-SFC NoSubs
 8  7 14 196  3  -31.0  0.303 -9.000 -9.000 -999.  401.      80.1  0.2930  0.52  1.00  3.10 348.0  15.0 293.8  2.0   0  0.00  74.  1000.   3 NAD-SFC NoSubs
 8  7 14 196  4  -25.3  0.252 -9.000 -9.000 -999.  304.      56.2  0.2930  0.52  1.00  2.60 348.0  15.0 293.6  2.0   0  0.00  74.  1000.   3 NAD-SFC NoSubs
 8  7 14 196  5  -25.3  0.252 -9.000 -9.000 -999.  303.      56.2  0.2930  0.52  1.00  2.60 354.0  15.0 293.4  2.0   0  0.00  73.  1000.   3 NAD-SFC NoSubs
 8  7 14 196  6   -9.9  0.205 -9.000 -9.000 -999.  224.      78.3  0.2930  0.52  0.51  2.10 338.0  15.0 293.6  2.0   0  0.00  72.  1001.   3 NAD-SFC NoSubs
 8  7 14 196  7   35.2  0.255  0.521  0.008  143.  308.     -41.8  0.2930  0.52  0.29  2.10 334.0  15.0 295.0  2.0   0  0.00  65.  1001.   3 NAD-SFC NoSubs
 8  7 14 196  8   81.0 -9.000 -9.000 -9.000  269. -999. -99999.0  0.2235  0.52  0.22  0.00   0.0  15.0 296.8  2.0   0  0.00  59.  1001.   3 NAD-SFC NoSubs
 8  7 14 196  9  121.3 -9.000 -9.000 -9.000  425. -999. -99999.0  0.2235  0.52  0.20  0.00   0.0  15.0 298.4  2.0   0  0.00  55.  1000.   3 NAD-SFC NoSubs
 8  7 14 196 10  153.7 -9.000 -9.000 -9.000  598. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 300.2  2.0   0  0.00  51.  1000.   3 NAD-SFC NoSubs
 8  7 14 196 11  176.5 -9.000 -9.000 -9.000  757. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 301.8  2.0   0  0.00  49.   999.   3 NAD-SFC NoSubs
 8  7 14 196 12  188.5 -9.000 -9.000 -9.000  902. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 303.4  2.0   0  0.00  47.   998.   3 NAD-SFC NoSubs
 8  7 14 196 13  190.0  0.121  1.757  0.009 1018.  101.     -1.0  0.2720  0.52  0.19  0.50 301.0  15.0 304.8  2.0   0  0.00  44.   998.   2 NAD-SFC NoSubs
 8  7 14 196 14  180.4  0.185  1.777  0.009 1107.  191.     -3.1  0.2930  0.52  0.19  1.00 343.0  15.0 305.8  2.0   0  0.00  42.   997.   3 NAD-SFC NoSubs
 8  7 14 196 15  159.8  0.293  1.744  0.009 1180.  381.    -14.0  0.2930  0.52  0.19  2.10 358.0  15.0 306.2  2.0   0  0.00  41.   996.   3 NAD-SFC NoSubs
 8  7 14 196 16  129.4 -9.000 -9.000 -9.000 1236. -999. -99999.0  0.2235  0.52  0.20  0.00   0.0  15.0 306.6  2.0   0  0.00  41.   996.   3 NAD-SFC NoSubs
 8  7 14 196 17   90.4  0.323  1.479  0.009 1273.  441.    -33.1  0.2930  0.52  0.22  2.60 338.0  15.0 306.4  2.0   0  0.00  49.   996.   3 NAD-SFC NoSubs
 8  7 14 196 18   44.9  0.459  1.176  0.009 1288.  746.   -191.4  0.2160  0.52  0.28  4.60 291.0  15.0 304.9  2.0   0  0.00  55.   997.   3 NAD-SFC NoSubs
 8  7 14 196 19   -1.6  0.488 -9.000 -9.000 -999.  819.   6334.8  0.2160  0.52  0.47  5.10 272.0  15.0 300.8  2.0   0  0.00  60.   998.   3 NAD-SFC NoSubs
 8  7 14 196 20  -44.7  0.443 -9.000 -9.000 -999.  710.    173.7  0.1750  0.52  1.00  5.10 264.0  15.0 298.0  2.0   0  0.00  62.   999.   3 NAD-SFC NoSubs
 8  7 14 196 21  -44.9  0.443 -9.000 -9.000 -999.  708.    172.5  0.1750  0.52  1.00  5.10 269.0  15.0 296.1  2.0   0  0.00  64.   999.   3 NAD-SFC NoSubs
 8  7 14 196 22  -38.0  0.373 -9.000 -9.000 -999.  550.    121.6  0.2160  0.52  1.00  4.10 283.0  15.0 295.1  2.0   0  0.00  66.  1000.   3 NAD-SFC NoSubs
 8  7 14 196 23  -15.7  0.196 -9.000 -9.000 -999.  234.     42.7  0.2720  0.52  1.00  2.10 312.0  15.0 294.8  2.0   0  0.00  67.  1001.   3 NAD-SFC NoSubs
 8  7 14 196 24   -7.8  0.137 -9.000 -9.000 -999.  123.     29.2  0.2720  0.52  1.00  1.50 316.0  15.0 294.4  2.0   0  0.00  67.  1001.   3 NAD-SFC NoSubs
 8  7 15 197  1  -24.5  0.246 -9.000 -9.000 -999.  293.     54.5  0.2720  0.52  1.00  2.60 316.0  15.0 293.8  2.0   0  0.00  69.  1002.   3 NAD-SFC NoSubs
 8  7 15 197  2  -30.5  0.297 -9.000 -9.000 -999.  388.     76.5  0.2720  0.52  1.00  3.10 320.0  15.0 292.9  2.0   0  0.00  72.  1002.   3 NAD-SFC NoSubs
 8  7 15 197  3  -24.5  0.246 -9.000 -9.000 -999.  294.     54.4  0.2720  0.52  1.00  2.60 320.0  15.0 292.5  2.0   0  0.00  72.  1003.   3 NAD-SFC NoSubs
 8  7 15 197  4  -24.5  0.246 -9.000 -9.000 -999.  293.     54.4  0.2720  0.52  1.00  2.60 306.0  15.0 292.4  2.0   0  0.00  72.  1003.   3 NAD-SFC NoSubs
 8  7 15 197  5  -24.6  0.246 -9.000 -9.000 -999.  293.     54.4  0.2720  0.52  1.00  2.60 324.0  15.0 292.2  2.0   0  0.00  73.  1004.   3 NAD-SFC NoSubs
 8  7 15 197  6  -10.7  0.205 -9.000 -9.000 -999.  223.     72.2  0.2930  0.52  0.51  2.10 330.0  15.0 292.2  2.0   0  0.00  75.  1004.   3 NAD-SFC NoSubs
 8  7 15 197  7   34.2  0.199  0.596  0.009  221.  213.     -20.5  0.2940  0.52  0.29  1.50   5.0  15.0 293.1  2.0   0  0.00  70.  1004.   3 NAD-SFC NoSubs
 8  7 15 197  8   79.8  0.109  0.911  0.009  339.   90.      -1.5  0.2930  0.52  0.22  0.50 360.0  15.0 294.5  2.0   0  0.00  63.  1004.   3 NAD-SFC NoSubs
 8  7 15 197  9  120.0 -9.000 -9.000 -9.000  484. -999. -99999.0  0.2235  0.52  0.20  0.00   0.0  15.0 296.0  2.0   0  0.00  59.  1004.   3 NAD-SFC NoSubs
 8  7 15 197 10  152.3 -9.000 -9.000 -9.000  634. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 297.5  2.0   0  0.00  56.  1004.   3 NAD-SFC NoSubs
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 8  7 15 197 11  175.1 -9.000 -9.000 -9.000  756. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 299.0  2.0    0  0.00   53. 1003.    3 NAD-SFC NoSubs
 8  7 15 197 12  187.2 -9.000 -9.000 -9.000  867. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 300.5  2.0    0  0.00   51. 1002.    2 NAD-SFC NoSubs
 8  7 15 197 13  188.3 -9.000 -9.000 -9.000  966. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 301.8  2.0    0  0.00   49. 1002.    2 NAD-SFC NoSubs
 8  7 15 197 14  179.0  0.185  1.733  0.011 1041.  190.     -3.1 0.2940  0.52  0.19  1.00   14.0  15.0 302.9  2.0    0  0.00   47. 1001.    2 NAD-SFC NoSubs
 8  7 15 197 15  158.3  0.234  1.696  0.011 1102.  272.     -7.3 0.2940  0.52  0.19  1.50   14.0  15.0 303.8  2.0    0  0.00   44. 1001.    2 NAD-SFC NoSubs
 8  7 15 197 16  127.5 -9.000 -9.000 -9.000 1149. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 304.1  2.0    0  0.00   43. 1000.    2 NAD-SFC NoSubs
 8  7 15 197 17   88.2 -9.000 -9.000 -9.000 1180. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0 304.0  2.0    0  0.00   45. 1000.    2 NAD-SFC NoSubs
 8  7 15 197 18   42.8 -9.000 -9.000 -9.000 1193. -999. -99999.0 0.2235  0.52  0.28  0.00    0.0  15.0 303.5  2.0    0  0.00   55. 1001.    2 NAD-SFC NoSubs
 8  7 15 197 19    3.7 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  0.47  0.00    0.0  15.0 302.2  2.0    0  0.00   59. 1001.    2 NAD-SFC NoSubs
 8  7 15 197 20  -35.5  0.355 -9.000 -9.000 -999.  507.    112.4 0.2930  0.52  1.00  3.60  356.0  15.0 301.0  2.0    0  0.00   62. 1002.    3 NAD-SFC NoSubs
 8  7 15 197 21  -29.8  0.297 -9.000 -9.000 -999.  390.     78.4 0.2720  0.52  1.00  3.10  306.0  15.0 300.1  2.0    0  0.00   63. 1002.    3 NAD-SFC NoSubs
 8  7 15 197 22  -42.6  0.420 -9.000 -9.000 -999.  654.    155.7 0.2160  0.52  1.00  4.60  279.0  15.0 297.2  2.0    0  0.00   68. 1003.    3 NAD-SFC NoSubs
 8  7 15 197 23  -38.0  0.373 -9.000 -9.000 -999.  548.    121.8 0.2160  0.52  1.00  4.10  295.0  15.0 295.5  2.0    0  0.00   69. 1003.    3 NAD-SFC NoSubs
 8  7 15 197 24  -35.5  0.347 -9.000 -9.000 -999.  491.    105.2 0.2720  0.52  1.00  3.60  307.0  15.0 294.8  2.0    0  0.00   71. 1003.    3 NAD-SFC NoSubs
 8  7 16 198  1  -35.6  0.347 -9.000 -9.000 -999.  490.    105.0 0.2720  0.52  1.00  3.60  316.0  15.0 294.2  2.0    0  0.00   75. 1004.    3 NAD-SFC NoSubs
 8  7 16 198  2  -32.0  0.303 -9.000 -9.000 -999.  401.     77.9 0.2930  0.52  1.00  3.10  338.0  15.0 293.5  2.0    0  0.00   79. 1004.    2 NAD-SFC NoSubs
 8  7 16 198  3  -32.1  0.303 -9.000 -9.000 -999.  400.     77.7 0.2930  0.52  1.00  3.10  350.0  15.0 292.8  2.0    0  0.00   82. 1004.    2 NAD-SFC NoSubs
 8  7 16 198  4  -25.8  0.252 -9.000 -9.000 -999.  304.     55.2 0.2930  0.52  1.00  2.60  349.0  15.0 292.0  2.0    0  0.00   84. 1005.    2 NAD-SFC NoSubs
 8  7 16 198  5  -16.6  0.200 -9.000 -9.000 -999.  215.     43.0 0.2930  0.52  1.00  2.10  351.0  15.0 291.4  2.0    0  0.00   85. 1005.    2 NAD-SFC NoSubs
 8  7 16 198  6  -12.5  0.204 -9.000 -9.000 -999.  221.     60.8 0.2930  0.52  0.51  2.10  353.0  15.0 291.2  2.0    0  0.00   83. 1006.    2 NAD-SFC NoSubs
 8  7 16 198  7   32.3  0.197  0.519  0.011  155.  211.    -21.4 0.2940  0.52  0.29  1.50    5.0  15.0 292.1  2.0    0  0.00   73. 1006.    2 NAD-SFC NoSubs
 8  7 16 198  8   78.5 -9.000 -9.000 -9.000  256. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0 294.0  2.0    0  0.00   67. 1006.    2 NAD-SFC NoSubs
 8  7 16 198  9  119.5 -9.000 -9.000 -9.000  361. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 296.2  2.0    0  0.00   58. 1005.    2 NAD-SFC NoSubs
 8  7 16 198 10  152.3 -9.000 -9.000 -9.000  525. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 298.2  2.0    0  0.00   54. 1004.    2 NAD-SFC NoSubs
 8  7 16 198 11  175.5  0.114  1.496  0.011  684.   92.     -1.0 0.2160  0.52  0.19  0.50  299.0  15.0 300.1  2.0    0  0.00   50. 1004.    2 NAD-SFC NoSubs
 8  7 16 198 12  187.5 -9.000 -9.000 -9.000  814. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 301.6  2.0    0  0.00   47. 1003.    2 NAD-SFC NoSubs
 8  7 16 198 13  188.9  0.121  1.698  0.012  927.  101.     -1.0 0.2720  0.52  0.19  0.50  306.0  15.0 303.1  2.0    0  0.00   44. 1002.    2 NAD-SFC NoSubs
 8  7 16 198 14  179.5  0.122  1.714  0.012 1005.  103.     -1.0 0.2930  0.52  0.19  0.50  345.0  15.0 304.2  2.0    0  0.00   41. 1002.    2 NAD-SFC NoSubs
 8  7 16 198 15  158.8  0.234  1.674  0.011 1057.  272.     -7.2 0.2930  0.52  0.19  1.50  356.0  15.0 305.0  2.0    0  0.00   39. 1001.    2 NAD-SFC NoSubs
 8  7 16 198 16  127.9  0.333  1.577  0.011 1096.  462.    -25.8 0.2940  0.52  0.20  2.60    7.0  15.0 305.2  2.0    0  0.00   38. 1001.    2 NAD-SFC NoSubs
 8  7 16 198 17   88.5  0.323  1.406  0.011 1122.  440.    -33.8 0.2940  0.52  0.22  2.60   16.0  15.0 304.9  2.0    0  0.00   44. 1001.    2 NAD-SFC NoSubs
 8  7 16 198 18   44.1  0.305  1.119  0.011 1134.  405.    -57.6 0.2940  0.52  0.28  2.60   16.0  15.0 304.4  2.0    0  0.00   52. 1001.    3 NAD-SFC NoSubs
 8  7 16 198 19    0.4  0.316  0.232  0.011 1133.  426. -7163.7 0.2940  0.52  0.47  3.10   15.0  15.0 303.4  2.0    0  0.00   53. 1001.    3 NAD-SFC NoSubs
 8  7 16 198 20  -25.0  0.252 -9.000 -9.000 -999.  305.     57.1 0.2930  0.52  1.00  2.60  342.0  15.0 302.2  2.0    0  0.00   56. 1002.    3 NAD-SFC NoSubs
 8  7 16 198 21  -37.3  0.373 -9.000 -9.000 -999.  546.    124.0 0.2160  0.52  1.00  4.10  292.0  15.0 300.8  2.0    0  0.00   60. 1002.    3 NAD-SFC NoSubs
 8  7 16 198 22  -38.7  0.373 -9.000 -9.000 -999.  546.    119.6 0.2160  0.52  1.00  4.10  270.0  15.0 297.9  2.0    0  0.00   66. 1002.    2 NAD-SFC NoSubs
 8  7 16 198 23  -33.9  0.325 -9.000 -9.000 -999.  447.     90.8 0.2160  0.52  1.00  3.60  278.0  15.0 296.9  2.0    0  0.00   67. 1002.    2 NAD-SFC NoSubs
 8  7 16 198 24  -33.9  0.325 -9.000 -9.000 -999.  445.     90.7 0.2160  0.52  1.00  3.60  283.0  15.0 296.5  2.0    0  0.00   67. 1002.    2 NAD-SFC NoSubs
 8  7 17 199  1  -36.2  0.347 -9.000 -9.000 -999.  490.    102.9 0.2720  0.52  1.00  3.60  303.0  15.0 296.0  2.0    0  0.00   69. 1002.    2 NAD-SFC NoSubs
 8  7 17 199  2  -37.1  0.354 -9.000 -9.000 -999.  506.    107.3 0.2930  0.52  1.00  3.60  332.0  15.0 295.4  2.0    0  0.00   73. 1002.    2 NAD-SFC NoSubs
 8  7 17 199  3  -31.8  0.303 -9.000 -9.000 -999.  402.     78.2 0.2930  0.52  1.00  3.10  352.0  15.0 294.5  2.0    0  0.00   79. 1003.    2 NAD-SFC NoSubs
 8  7 17 199  4  -31.9  0.303 -9.000 -9.000 -999.  400.     78.0 0.2930  0.52  1.00  3.10  351.0  15.0 293.8  2.0    0  0.00   84. 1003.    2 NAD-SFC NoSubs
 8  7 17 199  5  -25.7  0.252 -9.000 -9.000 -999.  304.     55.3 0.2930  0.52  1.00  2.60  354.0  15.0 293.1  2.0    0  0.00   87. 1003.    2 NAD-SFC NoSubs
 8  7 17 199  6   -6.4  0.142 -9.000 -9.000 -999.  134.     40.1 0.2930  0.52  0.52  1.50  347.0  15.0 292.9  2.0    0  0.00   87. 1004.    2 NAD-SFC NoSubs
 8  7 17 199  7   32.5  0.198  0.501  0.009  138.  211.    -21.2 0.2930  0.52  0.29  1.50  356.0  15.0 294.2  2.0    0  0.00   76. 1004.    2 NAD-SFC NoSubs
 8  7 17 199  8   79.0 -9.000 -9.000 -9.000  241. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0 296.2  2.0    0  0.00   68. 1004.    2 NAD-SFC NoSubs
 8  7 17 199  9  119.9 -9.000 -9.000 -9.000  379. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 298.1  2.0    0  0.00   60. 1003.    2 NAD-SFC NoSubs
 8  7 17 199 10  152.7 -9.000 -9.000 -9.000  576. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 299.8  2.0    0  0.00   55. 1002.    2 NAD-SFC NoSubs
 8  7 17 199 11  175.9 -9.000 -9.000 -9.000  771. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 301.4  2.0    0  0.00   51. 1002.    2 NAD-SFC NoSubs
 8  7 17 199 12  188.0 -9.000 -9.000 -9.000  953. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 303.0  2.0    0  0.00   45. 1001.    2 NAD-SFC NoSubs
 8  7 17 199 13  189.2 -9.000 -9.000 -9.000 1037. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 304.1  2.0    0  0.00   42. 1000.    2 NAD-SFC NoSubs
 8  7 17 199 14  179.7 -9.000 -9.000 -9.000 1103. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 305.0  2.0    0  0.00   39.  999.    2 NAD-SFC NoSubs
 8  7 17 199 15  159.0  0.182  1.728  0.011 1158.  186.     -3.4 0.2940  0.52  0.19  1.00   25.0  15.0 305.6  2.0    0  0.00   38.  999.    2 NAD-SFC NoSubs
 8  7 17 199 16  128.0  0.287  1.628  0.011 1201.  369.    -16.4 0.2940  0.52  0.20  2.10   23.0  15.0 305.8  2.0    0  0.00   38.  998.    2 NAD-SFC NoSubs
 8  7 17 199 17   88.6  0.323  1.451  0.011 1229.  440.    -33.7 0.2940  0.52  0.22  2.60   22.0  15.0 305.5  2.0    0  0.00   42.  998.    2 NAD-SFC NoSubs
 8  7 17 199 18   43.1  0.305  1.146  0.011 1242.  404.    -58.5 0.2940  0.52  0.28  2.60   24.0  15.0 305.1  2.0    0  0.00   50.  998.    2 NAD-SFC NoSubs
 8  7 17 199 19   -2.6  0.319 -9.000 -9.000 -999.  433.   1112.2 0.2940  0.52  0.47  3.10   14.0  15.0 304.2  2.0    0  0.00   52.  999.    2 NAD-SFC NoSubs
 8  7 17 199 20  -30.1  0.303 -9.000 -9.000 -999.  401.     82.8 0.2930  0.52  1.00  3.10  354.0  15.0 303.1  2.0    0  0.00   54.  999.    3 NAD-SFC NoSubs
 8  7 17 199 21  -24.1  0.247 -9.000 -9.000 -999.  295.     55.4 0.2720  0.52  1.00  2.60  321.0  15.0 302.1  2.0    0  0.00   58.  999.    3 NAD-SFC NoSubs
 8  7 17 199 22  -32.5  0.326 -9.000 -9.000 -999.  446.     94.5 0.2160  0.52  1.00  3.60  295.0  15.0 300.4  2.0    0  0.00   64.  999.    3 NAD-SFC NoSubs
 8  7 17 199 23  -32.7  0.326 -9.000 -9.000 -999.  446.     93.9 0.2160  0.52  1.00  3.60  287.0  15.0 298.8  2.0    0  0.00   69.  999.    3 NAD-SFC NoSubs
 8  7 17 199 24  -35.0  0.347 -9.000 -9.000 -999.  490.    106.4 0.2720  0.52  1.00  3.60  317.0  15.0 297.8  2.0    0  0.00   73.  999.    3 NAD-SFC NoSubs
 8  7 18 200  1  -35.9  0.355 -9.000 -9.000 -999.  507.    110.7 0.2930  0.52  1.00  3.60  354.0  15.0 296.6  2.0    0  0.00   77. 1000.    3 NAD-SFC NoSubs
 8  7 18 200  2  -30.9  0.304 -9.000 -9.000 -999.  403.     80.8 0.2940  0.52  1.00  3.10   15.0  15.0 295.5  2.0    0  0.00   80. 1000.    3 NAD-SFC NoSubs
 8  7 18 200  3  -31.0  0.304 -9.000 -9.000 -999.  401.     80.5 0.2940  0.52  1.00  3.10    8.0  15.0 294.6  2.0    0  0.00   80. 1000.    3 NAD-SFC NoSubs
 8  7 18 200  4  -25.4  0.252 -9.000 -9.000 -999.  305.     56.3 0.2940  0.52  1.00  2.60    7.0  15.0 293.9  2.0    0  0.00   81. 1000.    3 NAD-SFC NoSubs
 8  7 18 200  5  -16.3  0.200 -9.000 -9.000 -999.  216.     43.9 0.2940  0.52  1.00  2.10   15.0  15.0 293.2  2.0    0  0.00   81. 1001.    3 NAD-SFC NoSubs
 8  7 18 200  6    8.5 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  0.52  0.00    0.0  15.0 293.1  2.0    0  0.00   81. 1001.    3 NAD-SFC NoSubs
 8  7 18 200  7   33.3 -9.000 -9.000 -9.000  179. -999. -99999.0 0.2235  0.52  0.29  0.00    0.0  15.0 294.2  2.0    0  0.00   70. 1001.    3 NAD-SFC NoSubs
 8  7 18 200  8   79.2 -9.000 -9.000 -9.000  274. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0 296.0  2.0    0  0.00   64. 1000.    3 NAD-SFC NoSubs
 8  7 18 200  9  119.5 -9.000 -9.000 -9.000  372. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 297.9  2.0    0  0.00   57. 1000.    2 NAD-SFC NoSubs
 8  7 18 200 10  152.4 -9.000 -9.000 -9.000  577. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 299.6  2.0    0  0.00   52.  999.    2 NAD-SFC NoSubs
 8  7 18 200 11  175.6 -9.000 -9.000 -9.000  787. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 301.2  2.0    0  0.00   48.  998.    2 NAD-SFC NoSubs
 8  7 18 200 12  187.7 -9.000 -9.000 -9.000  974. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 302.8  2.0    0  0.00   44.  997.    2 NAD-SFC NoSubs
 8  7 18 200 13  188.9 -9.000 -9.000 -9.000 1074. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 303.9  2.0    0  0.00   41.  996.    2 NAD-SFC NoSubs
 8  7 18 200 14  179.4  0.122  1.802  0.010 1160.  103.     -1.0 0.2930  0.52  0.19  0.50  350.0  15.0 304.8  2.0    0  0.00   40.  996.    2 NAD-SFC NoSubs
 8  7 18 200 15  158.7  0.235  1.765  0.011 1233.  273.     -7.2 0.2940  0.52  0.19  1.50   15.0  15.0 305.4  2.0    0  0.00   39.  995.    2 NAD-SFC NoSubs
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 8  7 18 200 16  127.8  0.287  1.666  0.011 1287.  369.    -16.4 0.2940  0.52  0.20  2.10  11.0  15.0 305.6  2.0    0  0.00   36.  995.    2 NAD-SFC NoSubs
 8  7 18 200 17   88.3  0.323  1.488  0.011 1324.  440.    -33.7 0.2940  0.52  0.22  2.60  18.0  15.0 305.4  2.0    0  0.00   39.  994.    2 NAD-SFC NoSubs
 8  7 18 200 18   42.8  0.203  1.174  0.011 1340.  228.    -17.4 0.2940  0.52  0.28  1.50  21.0  15.0 305.1  2.0    0  0.00   46.  994.    2 NAD-SFC NoSubs
 8  7 18 200 19   -1.6  0.149 -9.000 -9.000 -999.  139.    183.6 0.2940  0.52  0.48  1.50   8.0  15.0 304.1  2.0    0  0.00   48.  995.    2 NAD-SFC NoSubs
 8  7 18 200 20   -6.9  0.129 -9.000 -9.000 -999.  111.     27.3 0.2160  0.52  1.00  1.50 287.0  15.0 302.9  2.0    0  0.00   51.  995.    3 NAD-SFC NoSubs
 8  7 18 200 21  -47.9  0.468 -9.000 -9.000 -999.  768.    189.5 0.2160  0.52  1.00  5.10 270.0  15.0 299.8  2.0    0  0.00   62.  995.    2 NAD-SFC NoSubs
 8  7 18 200 22  -45.9  0.443 -9.000 -9.000 -999.  708.    168.0 0.1750  0.52  1.00  5.10 266.0  15.0 296.2  2.0    0  0.00   71.  996.    2 NAD-SFC NoSubs
 8  7 18 200 23  -38.8  0.373 -9.000 -9.000 -999.  549.    118.4 0.2160  0.52  1.00  4.10 274.0  15.0 295.2  2.0    0  0.00   72.  996.    2 NAD-SFC NoSubs
 8  7 18 200 24  -33.9  0.325 -9.000 -9.000 -999.  447.     90.1 0.2160  0.52  1.00  3.60 274.0  15.0 294.5  2.0    0  0.00   74.  996.    2 NAD-SFC NoSubs
 8  7 19 201  1  -14.2  0.183 -9.000 -9.000 -999.  201.     38.4 0.2160  0.52  1.00  2.10 281.0  15.0 294.1  2.0    0  0.00   74.  996.    2 NAD-SFC NoSubs
 8  7 19 201  2   -7.8  0.137 -9.000 -9.000 -999.  122.     29.2 0.2720  0.52  1.00  1.50 308.0  15.0 293.9  2.0    0  0.00   73.  996.    3 NAD-SFC NoSubs
 8  7 19 201  3   -3.8  0.100 -9.000 -9.000 -999.   76.     23.3 0.2720  0.52  1.00  1.00 310.0  15.0 293.8  2.0    0  0.00   74.  997.    3 NAD-SFC NoSubs
 8  7 19 201  4   -3.9  0.101 -9.000 -9.000 -999.   77.     23.3 0.2720  0.52  1.00  1.00 302.0  15.0 293.4  2.0    0  0.00   74.  997.    2 NAD-SFC NoSubs
 8  7 19 201  5   -3.9  0.101 -9.000 -9.000 -999.   77.     23.3 0.2720  0.52  1.00  1.00 305.0  15.0 293.1  2.0    0  0.00   75.  997.    2 NAD-SFC NoSubs
 8  7 19 201  6   -2.8  0.093 -9.000 -9.000 -999.   68.     25.3 0.2720  0.52  0.53  1.00 310.0  15.0 293.0  2.0    0  0.00   76.  998.    2 NAD-SFC NoSubs
 8  7 19 201  7   31.8  0.197  0.528  0.009  164.  210.    -21.5 0.2930  0.52  0.30  1.50 333.0  15.0 294.4  2.0    0  0.00   70.  998.    2 NAD-SFC NoSubs
 8  7 19 201  8   78.2 -9.000 -9.000 -9.000  309. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 296.1  2.0    0  0.00   63.  998.    2 NAD-SFC NoSubs
 8  7 19 201  9  119.1 -9.000 -9.000 -9.000  449. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 297.8  2.0    0  0.00   59.  997.    2 NAD-SFC NoSubs
 8  7 19 201 10  152.1 -9.000 -9.000 -9.000  584. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 299.5  2.0    0  0.00   54.  997.    2 NAD-SFC NoSubs
 8  7 19 201 11  175.4 -9.000 -9.000 -9.000  735. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 301.2  2.0    0  0.00   50.  996.    2 NAD-SFC NoSubs
 8  7 19 201 12  187.6 -9.000 -9.000 -9.000  896. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 302.9  2.0    0  0.00   46.  995.    2 NAD-SFC NoSubs
 8  7 19 201 13  188.9  0.121  1.749  0.013 1006.  101.     -1.0 0.2720  0.52  0.19  0.50 318.0  15.0 304.2  2.0    0  0.00   42.  995.    2 NAD-SFC NoSubs
 8  7 19 201 14  179.6  0.185  1.757  0.013 1073.  190.     -3.1 0.2930  0.52  0.19  1.00 341.0  15.0 305.4  2.0    0  0.00   39.  994.    2 NAD-SFC NoSubs
 8  7 19 201 15  158.8  0.234  1.715  0.014 1128.  273.     -7.2 0.2930  0.52  0.19  1.50 346.0  15.0 306.0  2.0    0  0.00   37.  994.    2 NAD-SFC NoSubs
 8  7 19 201 16  127.9 -9.000 -9.000 -9.000 1171. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 306.2  2.0    0  0.00   37.  993.    2 NAD-SFC NoSubs
 8  7 19 201 17   88.3  0.323  1.440  0.014 1198.  440.    -33.7 0.2940  0.52  0.22  2.60   7.0  15.0 305.9  2.0    0  0.00   45.  993.    2 NAD-SFC NoSubs
 8  7 19 201 18   43.9  0.351  1.144  0.014 1211.  499.    -87.4 0.2930  0.52  0.28  3.10 344.0  15.0 305.5  2.0    0  0.00   50.  994.    3 NAD-SFC NoSubs
 8  7 19 201 19   -3.3  0.487 -9.000 -9.000 -999.  816.   3150.2 0.2160  0.52  0.48  5.10 293.0  15.0 302.8  2.0    0  0.00   57.  995.    3 NAD-SFC NoSubs
 8  7 19 201 20  -48.1  0.468 -9.000 -9.000 -999.  768.    188.7 0.2160  0.52  1.00  5.10 274.0  15.0 298.5  2.0    0  0.00   67.  995.    2 NAD-SFC NoSubs
 8  7 19 201 21  -48.5  0.468 -9.000 -9.000 -999.  767.    187.3 0.2160  0.52  1.00  5.10 275.0  15.0 296.4  2.0    0  0.00   69.  996.    2 NAD-SFC NoSubs
 8  7 19 201 22  -38.8  0.373 -9.000 -9.000 -999.  552.    118.4 0.2160  0.52  1.00  4.10 271.0  15.0 295.1  2.0    0  0.00   72.  996.    2 NAD-SFC NoSubs
 8  7 19 201 23  -22.1  0.231 -9.000 -9.000 -999.  280.     49.2 0.2160  0.52  1.00  2.60 295.0  15.0 294.4  2.0    0  0.00   73.  996.    2 NAD-SFC NoSubs
 8  7 19 201 24  -16.2  0.200 -9.000 -9.000 -999.  215.     43.9 0.2930  0.52  1.00  2.10 334.0  15.0 294.1  2.0    0  0.00   72.  997.    3 NAD-SFC NoSubs
 8  7 20 202  1  -30.9  0.303 -9.000 -9.000 -999.  401.     80.1 0.2930  0.52  1.00  3.10 358.0  15.0 293.8  2.0    0  0.00   73.  997.    3 NAD-SFC NoSubs
 8  7 20 202  2  -36.3  0.355 -9.000 -9.000 -999.  506.    109.1 0.2930  0.52  1.00  3.60 357.0  15.0 292.8  2.0    0  0.00   76.  998.    3 NAD-SFC NoSubs
 8  7 20 202  3  -36.4  0.355 -9.000 -9.000 -999.  507.    109.0 0.2930  0.52  1.00  3.60 353.0  15.0 292.2  2.0    0  0.00   78.  998.    3 NAD-SFC NoSubs
 8  7 20 202  4  -36.5  0.355 -9.000 -9.000 -999.  507.    108.8 0.2930  0.52  1.00  3.60 342.0  15.0 291.9  2.0    0  0.00   79.  999.    3 NAD-SFC NoSubs
 8  7 20 202  5  -31.2  0.303 -9.000 -9.000 -999.  402.     79.5 0.2930  0.52  1.00  3.10 345.0  15.0 291.6  2.0    0  0.00   80.  999.    3 NAD-SFC NoSubs
 8  7 20 202  6  -20.6  0.306 -9.000 -9.000 -999.  406.    124.2 0.2930  0.52  0.53  3.10 344.0  15.0 291.9  2.0    0  0.00   79. 1000.    2 NAD-SFC NoSubs
 8  7 20 202  7   31.1  0.298  0.474  0.008  122.  390.    -75.7 0.2930  0.52  0.30  2.60 333.0  15.0 293.8  2.0    0  0.00   70. 1001.    2 NAD-SFC NoSubs
 8  7 20 202  8   77.6  0.216  0.789  0.009  226.  244.    -11.6 0.2930  0.52  0.22  1.50 333.0  15.0 295.5  2.0    0  0.00   64. 1001.    2 NAD-SFC NoSubs
 8  7 20 202  9  118.6  0.113  1.086  0.008  386.   97.     -1.1 0.2720  0.52  0.20  0.50 325.0  15.0 297.2  2.0    0  0.00   60. 1000.    2 NAD-SFC NoSubs
 8  7 20 202 10  151.7 -9.000 -9.000 -9.000  553. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 299.2  2.0    0  0.00   54. 1000.    2 NAD-SFC NoSubs
 8  7 20 202 11  175.1 -9.000 -9.000 -9.000  706. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 301.1  2.0    0  0.00   49. 1000.    2 NAD-SFC NoSubs
 8  7 20 202 12  187.3 -9.000 -9.000 -9.000  853. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 302.8  2.0    0  0.00   43.  999.    2 NAD-SFC NoSubs
 8  7 20 202 13  188.7  0.121  1.729  0.010  977.  101.     -1.0 0.2720  0.52  0.19  0.50 318.0  15.0 304.2  2.0    0  0.00   38.  998.    2 NAD-SFC NoSubs
 8  7 20 202 14  179.3 -9.000 -9.000 -9.000 1048. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 305.1  2.0    0  0.00   35.  997.    2 NAD-SFC NoSubs
 8  7 20 202 15  158.4  0.235  1.701  0.010 1107.  273.     -7.2 0.2940  0.52  0.19  1.50  15.0  15.0 305.8  2.0    0  0.00   34.  997.    2 NAD-SFC NoSubs
 8  7 20 202 16  127.5  0.333  1.604  0.009 1152.  462.    -25.8 0.2940  0.52  0.20  2.60  15.0  15.0 305.9  2.0    0  0.00   34.  997.    2 NAD-SFC NoSubs
 8  7 20 202 17   87.8  0.322  1.428  0.009 1181.  439.    -33.9 0.2930  0.52  0.22  2.60 346.0  15.0 305.5  2.0    0  0.00   42.  997.    2 NAD-SFC NoSubs
 8  7 20 202 18   41.7  0.436  1.118  0.009 1192.  690.   -176.5 0.2720  0.52  0.28  4.10 301.0  15.0 304.2  2.0    0  0.00   49.  998.    2 NAD-SFC NoSubs
 8  7 20 202 19  -13.0  0.455 -9.000 -9.000 -999.  736.    647.5 0.1750  0.52  0.48  5.10 268.0  15.0 299.8  2.0    0  0.00   60.  999.    2 NAD-SFC NoSubs
 8  7 20 202 20  -46.0  0.443 -9.000 -9.000 -999.  708.    168.5 0.1750  0.52  1.00  5.10 269.0  15.0 297.0  2.0    0  0.00   66. 1000.    2 NAD-SFC NoSubs
 8  7 20 202 21  -46.3  0.443 -9.000 -9.000 -999.  707.    167.4 0.1750  0.52  1.00  5.10 266.0  15.0 295.2  2.0    0  0.00   69. 1000.    2 NAD-SFC NoSubs
 8  7 20 202 22  -38.1  0.373 -9.000 -9.000 -999.  550.    121.2 0.2160  0.52  1.00  4.10 275.0  15.0 294.1  2.0    0  0.00   72. 1001.    3 NAD-SFC NoSubs
 8  7 20 202 23   -6.5  0.122 -9.000 -9.000 -999.  193.     25.1 0.1750  0.52  1.00  1.50 258.0  15.0 293.8  2.0    0  0.00   72. 1002.    3 NAD-SFC NoSubs
 8  7 20 202 24   -1.5  0.080 -9.000 -9.000 -999.   61.     31.0 0.2130  0.52  1.00  0.50 107.0  15.0 293.8  2.0    0  0.00   71. 1002.    3 NAD-SFC NoSubs
 8  7 21 203  1   -1.6  0.082 -9.000 -9.000 -999.   56.     31.3 0.2930  0.52  1.00  0.50 339.0  15.0 293.5  2.0    0  0.00   72. 1003.    4 NAD-SFC NoSubs
 8  7 21 203  2   -3.7  0.099 -9.000 -9.000 -999.   75.     23.4 0.2720  0.52  1.00  1.00 319.0  15.0 293.2  2.0    0  0.00   72. 1003.    4 NAD-SFC NoSubs
 8  7 21 203  3   -7.7  0.137 -9.000 -9.000 -999.  121.     29.7 0.2720  0.52  1.00  1.50 326.0  15.0 293.0  2.0    0  0.00   73. 1003.    4 NAD-SFC NoSubs
 8  7 21 203  4   -7.7  0.137 -9.000 -9.000 -999.  121.     29.7 0.2720  0.52  1.00  1.50 327.0  15.0 292.8  2.0    0  0.00   75. 1003.    4 NAD-SFC NoSubs
 8  7 21 203  5   -8.0  0.140 -9.000 -9.000 -999.  125.     30.5 0.2930  0.52  1.00  1.50 340.0  15.0 292.2  2.0    0  0.00   78. 1004.    4 NAD-SFC NoSubs
 8  7 21 203  6   -6.5  0.142 -9.000 -9.000 -999.  128.     39.2 0.2940  0.52  0.53  1.50   9.0  15.0 292.0  2.0    0  0.00   80. 1004.    3 NAD-SFC NoSubs
 8  7 21 203  7   31.5 -9.000 -9.000 -9.000  307. -999. -99999.0 0.2235  0.52  0.30  0.00   0.0  15.0 292.6  2.0    0  0.00   69. 1004.    3 NAD-SFC NoSubs
 8  7 21 203  8   77.3  0.166  0.990  0.009  450.  162.     -5.3 0.2930  0.52  0.22  1.00 350.0  15.0 293.8  2.0    0  0.00   63. 1004.    3 NAD-SFC NoSubs
 8  7 21 203  9  117.9  0.113  1.234  0.009  571.   92.     -1.1 0.2720  0.52  0.20  0.50 327.0  15.0 295.2  2.0    0  0.00   58. 1004.    3 NAD-SFC NoSubs
 8  7 21 203 10  150.5 -9.000 -9.000 -9.000  691. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 296.8  2.0    0  0.00   55. 1003.    3 NAD-SFC NoSubs
 8  7 21 203 11  173.5 -9.000 -9.000 -9.000  799. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 298.4  2.0    0  0.00   51. 1002.    3 NAD-SFC NoSubs
 8  7 21 203 12  185.6  0.121  1.672  0.009  901.  101.     -1.0 0.2720  0.52  0.19  0.50 329.0  15.0 300.0  2.0    0  0.00   49. 1001.    3 NAD-SFC NoSubs
 8  7 21 203 13  187.0  0.239  1.733  0.009  994.  281.     -6.5 0.2930  0.52  0.19  1.50 340.0  15.0 301.2  2.0    0  0.00   46. 1000.    2 NAD-SFC NoSubs
 8  7 21 203 14  177.5  0.296  1.751  0.010 1079.  387.    -13.1 0.2930  0.52  0.19  2.10 355.0  15.0 302.1  2.0    0  0.00   45.  999.    2 NAD-SFC NoSubs
 8  7 21 203 15  156.6  0.340  1.714  0.010 1147.  476.    -22.4 0.2940  0.52  0.19  2.60   2.0  15.0 302.6  2.0    0  0.00   45.  999.    2 NAD-SFC NoSubs
 8  7 21 203 16  125.5  0.379  1.617  0.010 1200.  560.    -38.6 0.2930  0.52  0.20  3.10 359.0  15.0 302.8  2.0    0  0.00   45.  998.    2 NAD-SFC NoSubs
 8  7 21 203 17   86.6  0.414  1.442  0.010 1234.  638.    -72.8 0.2940  0.52  0.22  3.60   2.0  15.0 302.5  2.0    0  0.00   49.  998.    3 NAD-SFC NoSubs
 8  7 21 203 18   41.4  0.350  1.133  0.010 1249.  499.    -92.1 0.2940  0.52  0.28  3.10   3.0  15.0 302.1  2.0    0  0.00   57.  998.    3 NAD-SFC NoSubs
 8  7 21 203 19   -6.3  0.368 -9.000 -9.000 -999.  535.    702.0 0.2930  0.52  0.49  3.60 347.0  15.0 301.1  2.0    0  0.00   59.  998.    3 NAD-SFC NoSubs
 8  7 21 203 20  -40.7  0.406 -9.000 -9.000 -999.  621.    146.6 0.2930  0.52  1.00  4.10 340.0  15.0 299.6  2.0    0  0.00   62.  998.    3 NAD-SFC NoSubs
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8	7	21	203	21	-40.1	0.397	-9.000	-9.000	-999.	601.	139.4	0.2720	0.52	1.00	4.10	329.0	15.0	297.8	2.0	0	0.00	66.	999.	3	NAD-SFC NoSubs
8	7	21	203	22	-35.2	0.347	-9.000	-9.000	-999.	492.	105.9	0.2720	0.52	1.00	3.60	325.0	15.0	296.4	2.0	0	0.00	70.	999.	3	NAD-SFC NoSubs
8	7	21	203	23	-35.3	0.347	-9.000	-9.000	-999.	491.	105.4	0.2720	0.52	1.00	3.60	312.0	15.0	295.2	2.0	0	0.00	73.	1000.	3	NAD-SFC NoSubs
8	7	21	203	24	-31.0	0.303	-9.000	-9.000	-999.	402.	80.3	0.2930	0.52	1.00	3.10	335.0	15.0	294.2	2.0	0	0.00	76.	1000.	3	NAD-SFC NoSubs
8	7	22	204	1	-31.1	0.303	-9.000	-9.000	-999.	401.	80.0	0.2930	0.52	1.00	3.10	349.0	15.0	293.2	2.0	0	0.00	79.	1000.	3	NAD-SFC NoSubs
8	7	22	204	2	-31.2	0.303	-9.000	-9.000	-999.	401.	79.7	0.2930	0.52	1.00	3.10	359.0	15.0	292.2	2.0	0	0.00	82.	1000.	3	NAD-SFC NoSubs
8	7	22	204	3	-25.4	0.252	-9.000	-9.000	-999.	304.	56.0	0.2930	0.52	1.00	2.60	358.0	15.0	291.5	2.0	0	0.00	84.	1000.	3	NAD-SFC NoSubs
8	7	22	204	4	-16.3	0.200	-9.000	-9.000	-999.	215.	43.7	0.2930	0.52	1.00	2.10	357.0	15.0	290.9	2.0	0	0.00	85.	1000.	3	NAD-SFC NoSubs
8	7	22	204	5	-8.2	0.140	-9.000	-9.000	-999.	126.	29.9	0.2940	0.52	1.00	1.50	4.0	15.0	290.2	2.0	0	0.00	86.	1000.	3	NAD-SFC NoSubs
8	7	22	204	6	-13.4	0.204	-9.000	-9.000	-999.	220.	56.1	0.2940	0.52	0.54	2.10	8.0	15.0	290.1	2.0	0	0.00	85.	1001.	3	NAD-SFC NoSubs
8	7	22	204	7	30.5	0.196	0.567	0.011	214.	209.	-22.2	0.2940	0.52	0.30	1.50	15.0	15.0	290.9	2.0	0	0.00	77.	1001.	3	NAD-SFC NoSubs
8	7	22	204	8	76.6	-9.000	-9.000	-9.000	300.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	292.8	2.0	0	0.00	68.	1001.	3	NAD-SFC NoSubs
8	7	22	204	9	117.4	-9.000	-9.000	-9.000	404.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	294.6	2.0	0	0.00	62.	1000.	3	NAD-SFC NoSubs
8	7	22	204	10	150.1	-9.000	-9.000	-9.000	561.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.8	2.0	0	0.00	56.	1000.	2	NAD-SFC NoSubs
8	7	22	204	11	173.5	-9.000	-9.000	-9.000	703.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.5	2.0	0	0.00	52.	999.	2	NAD-SFC NoSubs
8	7	22	204	12	185.7	-9.000	-9.000	-9.000	833.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.2	2.0	0	0.00	49.	998.	2	NAD-SFC NoSubs
8	7	22	204	13	187.0	0.123	1.707	0.010	947.	104.	-1.0	0.2930	0.52	0.19	0.50	345.0	15.0	301.6	2.0	0	0.00	45.	997.	2	NAD-SFC NoSubs
8	7	22	204	14	177.6	0.238	1.726	0.010	1032.	279.	-6.7	0.2930	0.52	0.19	1.50	355.0	15.0	302.6	2.0	0	0.00	43.	997.	2	NAD-SFC NoSubs
8	7	22	204	15	156.6	0.293	1.691	0.010	1098.	380.	-14.2	0.2930	0.52	0.19	2.10	354.0	15.0	303.1	2.0	0	0.00	42.	996.	2	NAD-SFC NoSubs
8	7	22	204	16	125.6	0.286	1.595	0.010	1148.	368.	-16.6	0.2940	0.52	0.20	2.10	5.0	15.0	303.4	2.0	0	0.00	42.	996.	2	NAD-SFC NoSubs
8	7	22	204	17	86.0	-9.000	-9.000	-9.000	1181.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	303.2	2.0	0	0.00	44.	996.	2	NAD-SFC NoSubs
8	7	22	204	18	40.3	-9.000	-9.000	-9.000	1195.	-999.	-99999.0	0.2235	0.52	0.28	0.00	0.0	15.0	303.0	2.0	0	0.00	52.	997.	2	NAD-SFC NoSubs
8	7	22	204	19	12.2	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.49	0.00	0.0	15.0	302.1	2.0	0	0.00	54.	997.	3	NAD-SFC NoSubs
8	7	22	204	20	-16.0	0.200	-9.000	-9.000	-999.	215.	44.5	0.2930	0.52	1.00	2.10	349.0	15.0	300.9	2.0	0	0.00	57.	998.	3	NAD-SFC NoSubs
8	7	22	204	21	-27.9	0.278	-9.000	-9.000	-999.	352.	68.9	0.2160	0.52	1.00	3.10	289.0	15.0	299.8	2.0	0	0.00	60.	998.	3	NAD-SFC NoSubs
8	7	22	204	22	-42.5	0.420	-9.000	-9.000	-999.	654.	155.6	0.2160	0.52	1.00	4.60	279.0	15.0	297.0	2.0	0	0.00	70.	999.	3	NAD-SFC NoSubs
8	7	22	204	23	-33.9	0.325	-9.000	-9.000	-999.	451.	90.4	0.2160	0.52	1.00	3.60	283.0	15.0	295.4	2.0	0	0.00	74.	999.	2	NAD-SFC NoSubs
8	7	22	204	24	-22.2	0.231	-9.000	-9.000	-999.	270.	49.3	0.2160	0.52	1.00	2.60	290.0	15.0	294.8	2.0	0	0.00	74.	999.	2	NAD-SFC NoSubs
8	7	23	205	1	-14.2	0.183	-9.000	-9.000	-999.	188.	38.4	0.2160	0.52	1.00	2.10	295.0	15.0	294.2	2.0	0	0.00	75.	999.	2	NAD-SFC NoSubs
8	7	23	205	2	-3.6	0.097	-9.000	-9.000	-999.	75.	22.4	0.2160	0.52	1.00	1.00	299.0	15.0	293.8	2.0	0	0.00	76.	999.	2	NAD-SFC NoSubs
8	7	23	205	3	-1.6	0.082	-9.000	-9.000	-999.	57.	31.5	0.2720	0.52	1.00	0.50	319.0	15.0	293.4	2.0	0	0.00	78.	999.	3	NAD-SFC NoSubs
8	7	23	205	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	293.0	2.0	0	0.00	79.	999.	3	NAD-SFC NoSubs
8	7	23	205	5	-1.4	0.078	-9.000	-9.000	-999.	52.	30.6	0.1750	0.52	1.00	0.50	240.0	15.0	292.6	2.0	0	0.00	81.	999.	3	NAD-SFC NoSubs
8	7	23	205	6	-2.5	0.085	-9.000	-9.000	-999.	60.	21.9	0.1750	0.52	0.54	1.00	245.0	15.0	292.5	2.0	0	0.00	82.	1000.	2	NAD-SFC NoSubs
8	7	23	205	7	30.0	0.184	0.465	0.008	120.	189.	-18.4	0.2160	0.52	0.30	1.50	276.0	15.0	294.4	2.0	0	0.00	73.	1000.	2	NAD-SFC NoSubs
8	7	23	205	8	76.6	-9.000	-9.000	-9.000	229.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	296.2	2.0	0	0.00	66.	1000.	2	NAD-SFC NoSubs
8	7	23	205	9	118.0	-9.000	-9.000	-9.000	357.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	298.2	2.0	0	0.00	60.	1000.	2	NAD-SFC NoSubs
8	7	23	205	10	151.1	-9.000	-9.000	-9.000	659.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.8	2.0	0	0.00	55.	1000.	2	NAD-SFC NoSubs
8	7	23	205	11	174.5	-9.000	-9.000	-9.000	822.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.4	2.0	0	0.00	51.	999.	2	NAD-SFC NoSubs
8	7	23	205	12	186.7	-9.000	-9.000	-9.000	968.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.8	2.0	0	0.00	46.	998.	2	NAD-SFC NoSubs
8	7	23	205	13	187.9	-9.000	-9.000	-9.000	1082.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.8	2.0	0	0.00	42.	998.	2	NAD-SFC NoSubs
8	7	23	205	14	178.4	-9.000	-9.000	-9.000	1181.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	304.6	2.0	0	0.00	39.	997.	2	NAD-SFC NoSubs
8	7	23	205	15	157.4	0.175	1.773	0.009	1261.	175.	-3.0	0.2470	0.52	0.19	1.00	46.0	15.0	305.0	2.0	0	0.00	39.	997.	2	NAD-SFC NoSubs
8	7	23	205	16	126.3	0.170	1.674	0.009	1322.	169.	-3.5	0.2470	0.52	0.20	1.00	48.0	15.0	305.2	2.0	0	0.00	36.	996.	2	NAD-SFC NoSubs
8	7	23	205	17	86.6	0.204	1.489	0.009	1356.	221.	-8.7	0.2090	0.52	0.22	1.50	60.0	15.0	305.0	2.0	0	0.00	42.	996.	2	NAD-SFC NoSubs
8	7	23	205	18	41.9	0.100	1.172	0.009	1369.	82.	-2.1	0.2940	0.52	0.28	0.50	16.0	15.0	304.5	2.0	0	0.00	45.	997.	3	NAD-SFC NoSubs
8	7	23	205	19	-4.0	0.290	-9.000	-9.000	-999.	376.	548.6	0.2160	0.52	0.49	3.10	283.0	15.0	303.8	2.0	0	0.00	48.	997.	3	NAD-SFC NoSubs
8	7	23	205	20	-48.1	0.468	-9.000	-9.000	-999.	767.	189.4	0.2160	0.52	1.00	5.10	278.0	15.0	299.5	2.0	0	0.00	63.	998.	2	NAD-SFC NoSubs
8	7	23	205	21	-43.5	0.420	-9.000	-9.000	-999.	655.	151.5	0.2160	0.52	1.00	4.60	275.0	15.0	297.2	2.0	0	0.00	66.	998.	2	NAD-SFC NoSubs
8	7	23	205	22	-33.8	0.325	-9.000	-9.000	-999.	451.	90.7	0.2160	0.52	1.00	3.60	274.0	15.0	296.5	2.0	0	0.00	67.	998.	2	NAD-SFC NoSubs
8	7	23	205	23	-21.8	0.231	-9.000	-9.000	-999.	271.	50.1	0.2160	0.52	1.00	2.60	280.0	15.0	296.0	2.0	0	0.00	67.	998.	3	NAD-SFC NoSubs
8	7	23	205	24	-14.0	0.183	-9.000	-9.000	-999.	189.	39.1	0.2160	0.52	1.00	2.10	279.0	15.0	295.5	2.0	0	0.00	67.	998.	3	NAD-SFC NoSubs
8	7	24	206	1	-7.0	0.129	-9.000	-9.000	-999.	111.	27.0	0.2160	0.52	1.00	1.50	289.0	15.0	294.9	2.0	0	0.00	67.	999.	3	NAD-SFC NoSubs
8	7	24	206	2	-1.6	0.083	-9.000	-9.000	-999.	57.	31.6	0.2930	0.52	1.00	0.50	348.0	15.0	294.5	2.0	0	0.00	69.	999.	3	NAD-SFC NoSubs
8	7	24	206	3	-1.4	0.079	-9.000	-9.000	-999.	53.	30.8	0.1950	0.52	1.00	0.50	239.0	15.0	294.2	2.0	0	0.00	69.	999.	3	NAD-SFC NoSubs
8	7	24	206	4	-3.3	0.093	-9.000	-9.000	-999.	68.	21.7	0.1750	0.52	1.00	1.00	253.0	15.0	294.1	2.0	0	0.00	70.	999.	2	NAD-SFC NoSubs
8	7	24	206	5	-3.3	0.093	-9.000	-9.000	-999.	68.	21.7	0.1750	0.52	1.00	1.00	265.0	15.0	293.8	2.0	0	0.00	71.	1000.	2	NAD-SFC NoSubs
8	7	24	206	6	-2.5	0.085	-9.000	-9.000	-999.	60.	21.9	0.1750	0.52	0.55	1.00	264.0	15.0	293.6	2.0	0	0.00	72.	1000.	2	NAD-SFC NoSubs
8	7	24	206	7	29.7	0.146	0.497	0.009	147.	134.	-9.3	0.2720	0.52	0.30	1.00	319.0	15.0	295.0	2.0	0	0.00	68.	1000.	2	NAD-SFC NoSubs
8	7	24	206	8	76.4	-9.000	-9.000	-9.000	310.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	296.6	2.0	0	0.00	63.	1000.	2	NAD-SFC NoSubs
8	7	24	206	9	117.6	-9.000	-9.000	-9.000	467.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	298.1	2.0	0	0.00	58.	1000.	2	NAD-SFC NoSubs
8	7	24	206	10	150.8	-9.000	-9.000	-9.000	613.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.8	2.0	0	0.00	54.	1000.	2	NAD-SFC NoSubs
8	7	24	206	11	174.3	-9.000	-9.000	-9.000	764.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.4	2.0	0	0.00	50.	999.	2	NAD-SFC NoSubs
8	7	24	206	12	186.6	-9.000	-9.000	-9.000	906.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.0	2.0	0	0.00	45.	998.	2	NAD-SFC NoSubs
8	7	24	206	13	188.0	-9.000	-9.000	-9.000	1010.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	304.4	2.0	0	0.00	41.	998.	2	NAD-SFC NoSubs
8	7	24	206	14	178.6	0.122	1.756	0.011	1080.	103.	-1.0	0.2930	0.52	0.19	0.50	336.0	15.0	305.4	2.0	0	0.00	37.	997.	2	NAD-SFC NoSubs
8	7	24	206	15	157.7	0.182	1.715	0.011	1139.	186.	-3.4	0.2940	0.52	0.19	1.00	3.0	15.0	306.0	2.0	0	0.00	35.	997.	2	NAD-SFC NoSubs
8	7	24	206	16	126.5	0.287	1.615	0.011	1184.	368.	-16.5	0.2940	0.52	0.20	2.10	13.0	15.0	306.2	2.0	0	0.00	35.	996.	2	NAD-SFC NoSubs
8	7	24	206	17	86.6	0.322	1.435	0.011	1213.	439.	-34.3	0.2940	0.52	0.22	2.60	12.0	15.0	305.8	2.0	0	0.00	42.	996.	2	NAD-SFC NoSubs
8	7	24	206	18	40.6	0.350	1.118	0.011	1225.	496.	-93.4	0.2940	0.52	0.28	3.10	19.0	15.0	305.1	2.0	0	0.00	50.	997.	2	NAD-SFC NoSubs
8	7	24	206	19	-9.4	0.365	-9.000	-9.000	-999.	530.	459.1	0.2940	0.52	0.50	3.60	13.0	15.0	304.0	2.0	0	0.00	53.	997.	2	NAD-SFC NoSubs
8	7	24	206	20	-29.4	0.297	-9.000	-9.000	-999.	391.	79.2	0.2720	0.52	1.00	3.10	306.0	15.0	302.8	2.0	0	0.00	55.	998.	3	NAD-SFC NoSubs
8	7	24	206	21	-48.1	0.468	-9.000	-9.000	-999.	767.	189.4	0.2160	0.52	1.00	5.10	272.0	15.0	299.6	2.0	0	0.00	63.	998.	2	NAD-SFC NoSubs
8	7	24	206	22	-40.3	0.398	-9.000	-9.000	-999.	607.	139.6	0.1750	0.52	1.00	4.60	268.0	15.0	296.9	2.0	0	0.00	68.	999.	3	NAD-SFC NoSubs
8	7	24	206	23	-28.2	0.278	-9.000	-9.000	-999.	362.	68.1	0.2160	0.52	1.00	3.10	271.0	15.0	296.5	2.0	0	0.00	67.	999.	3	NAD-SFC NoSubs
8	7	24	206	24	-28.2	0.278	-9.000	-9.000	-999.	352.	68.1	0.2160	0.52	1.00	3.10	285.0	15.0	296.5	2.0	0	0.00	66.	999.	3	NAD-SFC NoSubs
8	7	25	207	1	-35.2	0.347	-9.000	-9.000	-999.	490.	105.8	0.2720	0.52	1.00	3.60	300.0	15.0	296.2	2.0	0	0.00	68.	999.	3	NAD-SFC NoSubs

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 8  7 25 207  2  -37.0  0.354 -9.000 -9.000 -999.  506.    107.3  0.2930  0.52  1.00  3.60  335.0  15.0  295.5  2.0  0  0.00  74.   999.   2 NAD-SFC NoSubs
 8  7 25 207  3  -25.3  0.252 -9.000 -9.000 -999.  309.     56.3  0.2930  0.52  1.00  2.60  353.0  15.0  294.5  2.0  0  0.00  78.  1000.   3 NAD-SFC NoSubs
 8  7 25 207  4  -16.4  0.200 -9.000 -9.000 -999.  215.     43.2  0.2930  0.52  1.00  2.10  356.0  15.0  293.8  2.0  0  0.00  80.  1000.   2 NAD-SFC NoSubs
 8  7 25 207  5   -8.2  0.140 -9.000 -9.000 -999.  126.     29.6  0.2930  0.52  1.00  1.50  358.0  15.0  293.2  2.0  0  0.00  80.  1000.   2 NAD-SFC NoSubs
 8  7 25 207  6   -3.2  0.096 -9.000 -9.000 -999.   71.     24.7  0.2930  0.52  0.55  1.00  336.0  15.0  292.9  2.0  0  0.00  81.  1001.   2 NAD-SFC NoSubs
 8  7 25 207  7   28.9  0.251  0.480  0.007  136.  301.    -48.6  0.2930  0.52  0.30  2.10  347.0  15.0  293.9  2.0  0  0.00  69.  1001.   2 NAD-SFC NoSubs
 8  7 25 207  8   75.6  0.109  0.794  0.009  236.  102.     -1.5  0.2930  0.52  0.22  0.50  339.0  15.0  295.6  2.0  0  0.00  64.  1001.   2 NAD-SFC NoSubs
 8  7 25 207  9  117.3 -9.000 -9.000 -9.000  349. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  298.0  2.0  0  0.00  56.  1001.   2 NAD-SFC NoSubs
 8  7 25 207 10  150.5 -9.000 -9.000 -9.000  539. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  299.8  2.0  0  0.00  52.  1001.   2 NAD-SFC NoSubs
 8  7 25 207 11  174.1 -9.000 -9.000 -9.000  758. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.8  2.0  0  0.00  47.  1000.   2 NAD-SFC NoSubs
 8  7 25 207 12  186.5 -9.000 -9.000 -9.000  962. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  303.2  2.0  0  0.00  44.  1000.   2 NAD-SFC NoSubs
 8  7 25 207 13  187.8  0.186  1.767  0.011 1048.  192.     -3.0  0.2930  0.52  0.19  1.00  343.0  15.0  304.4  2.0  0  0.00  41.   999.   2 NAD-SFC NoSubs
 8  7 25 207 14  178.2  0.238  1.775  0.012 1120.  279.     -6.7  0.2930  0.52  0.19  1.50  338.0  15.0  305.2  2.0  0  0.00  39.   998.   2 NAD-SFC NoSubs
 8  7 25 207 15  157.2  0.293  1.732  0.012 1179.  380.    -14.2  0.2930  0.52  0.19  2.10  353.0  15.0  305.8  2.0  0  0.00  38.   998.   2 NAD-SFC NoSubs
 8  7 25 207 16  126.1  0.333  1.630  0.012 1224.  460.    -26.0  0.2930  0.52  0.20  2.60  359.0  15.0  305.9  2.0  0  0.00  38.   998.   2 NAD-SFC NoSubs
 8  7 25 207 17   86.1 -9.000 -9.000 -9.000 1254. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  305.5  2.0  0  0.00  45.   998.   2 NAD-SFC NoSubs
 8  7 25 207 18   40.1 -9.000 -9.000 -9.000 1266. -999. -99999.0  0.2235  0.52  0.29  0.00    0.0  15.0  305.0  2.0  0  0.00  51.   998.   2 NAD-SFC NoSubs
 8  7 25 207 19    7.5 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.50  0.00    0.0  15.0  303.9  2.0  0  0.00  53.   998.   2 NAD-SFC NoSubs
 8  7 25 207 20  -25.2  0.252 -9.000 -9.000 -999.  303.     56.3  0.2930  0.52  1.00  2.60  348.0  15.0  302.6  2.0  0  0.00  55.   998.   2 NAD-SFC NoSubs
 8  7 25 207 21  -24.4  0.246 -9.000 -9.000 -999.  293.     54.5  0.2720  0.52  1.00  2.60  329.0  15.0  301.4  2.0  0  0.00  58.   998.   2 NAD-SFC NoSubs
 8  7 25 207 22  -35.6  0.347 -9.000 -9.000 -999.  490.    104.4  0.2720  0.52  1.00  3.60  320.0  15.0  300.1  2.0  0  0.00  62.   998.   2 NAD-SFC NoSubs
 8  7 25 207 23  -35.7  0.347 -9.000 -9.000 -999.  490.    103.9  0.2720  0.52  1.00  3.60  319.0  15.0  298.8  2.0  0  0.00  67.   998.   2 NAD-SFC NoSubs
 8  7 25 207 24  -35.9  0.347 -9.000 -9.000 -999.  490.    103.5  0.2720  0.52  1.00  3.60  317.0  15.0  297.8  2.0  0  0.00  71.   999.   2 NAD-SFC NoSubs
 8  7 26 208  1  -36.8  0.354 -9.000 -9.000 -999.  506.    107.8  0.2930  0.52  1.00  3.60  330.0  15.0  296.9  2.0  0  0.00  72.   999.   2 NAD-SFC NoSubs
 8  7 26 208  2  -36.9  0.354 -9.000 -9.000 -999.  506.    107.5  0.2930  0.52  1.00  3.60  340.0  15.0  296.1  2.0  0  0.00  75.  1000.   2 NAD-SFC NoSubs
 8  7 26 208  3  -31.7  0.303 -9.000 -9.000 -999.  402.     78.4  0.2930  0.52  1.00  3.10  346.0  15.0  295.2  2.0  0  0.00  78.  1000.   2 NAD-SFC NoSubs
 8  7 26 208  4  -16.4  0.200 -9.000 -9.000 -999.  220.     43.3  0.2930  0.52  1.00  2.10  337.0  15.0  294.5  2.0  0  0.00  79.  1000.   2 NAD-SFC NoSubs
 8  7 26 208  5   -8.2  0.140 -9.000 -9.000 -999.  126.     29.6  0.2930  0.52  1.00  1.50  330.0  15.0  294.0  2.0  0  0.00  79.  1001.   2 NAD-SFC NoSubs
 8  7 26 208  6   -3.1  0.094 -9.000 -9.000 -999.   70.     24.2  0.2720  0.52  0.56  1.00  327.0  15.0  293.6  2.0  0  0.00  79.  1001.   2 NAD-SFC NoSubs
 8  7 26 208  7   28.6  0.296  0.462  0.006  123.  387.    -81.0  0.2930  0.52  0.30  2.60  345.0  15.0  294.6  2.0  0  0.00  70.  1002.   2 NAD-SFC NoSubs
 8  7 26 208  8   75.4  0.109  0.772  0.009  218.  126.     -1.5  0.2930  0.52  0.22  0.50  351.0  15.0  296.1  2.0  0  0.00  65.  1002.   2 NAD-SFC NoSubs
 8  7 26 208  9  117.0 -9.000 -9.000 -9.000  344. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  298.2  2.0  0  0.00  57.  1001.   2 NAD-SFC NoSubs
 8  7 26 208 10  150.4 -9.000 -9.000 -9.000  521. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  300.1  2.0  0  0.00  52.  1001.   2 NAD-SFC NoSubs
 8  7 26 208 11  174.0 -9.000 -9.000 -9.000  732. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.9  2.0  0  0.00  47.  1000.   2 NAD-SFC NoSubs
 8  7 26 208 12  186.3 -9.000 -9.000 -9.000  969. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  303.4  2.0  0  0.00  43.  1000.   2 NAD-SFC NoSubs
 8  7 26 208 13  187.7  0.121  1.775  0.010 1063.  101.     -1.0  0.2720  0.52  0.19  0.50  325.0  15.0  304.8  2.0  0  0.00  40.   999.   2 NAD-SFC NoSubs
 8  7 26 208 14  178.2  0.184  1.788  0.011 1145.  190.     -3.1  0.2930  0.52  0.19  1.00  344.0  15.0  305.6  2.0  0  0.00  37.   998.   2 NAD-SFC NoSubs
 8  7 26 208 15  157.2  0.234  1.748  0.011 1212.  272.     -7.3  0.2930  0.52  0.19  1.50  350.0  15.0  306.2  2.0  0  0.00  36.   998.   2 NAD-SFC NoSubs
 8  7 26 208 16  126.0 -9.000 -9.000 -9.000 1263. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  306.4  2.0  0  0.00  36.   998.   2 NAD-SFC NoSubs
 8  7 26 208 17   85.8  0.322  1.461  0.011 1295.  438.    -34.6  0.2940  0.52  0.22  2.60    9.0  15.0  305.8  2.0  0  0.00  45.   998.   2 NAD-SFC NoSubs
 8  7 26 208 18   39.8  0.349  1.135  0.011 1309.  495.    -95.1  0.2940  0.52  0.29  3.10   23.0  15.0  305.2  2.0  0  0.00  50.   998.   2 NAD-SFC NoSubs
 8  7 26 208 19   -8.0  0.259 -9.000 -9.000 -999.  321.    193.7  0.2940  0.52  0.50  2.60    9.0  15.0  304.2  2.0  0  0.00  52.   998.   2 NAD-SFC NoSubs
 8  7 26 208 20  -24.3  0.246 -9.000 -9.000 -999.  293.     54.7  0.2720  0.52  1.00  2.60  314.0  15.0  303.0  2.0  0  0.00  54.   998.   2 NAD-SFC NoSubs
 8  7 26 208 21  -45.4  0.443 -9.000 -9.000 -999.  708.    170.8  0.1750  0.52  1.00  5.10  266.0  15.0  300.9  2.0  0  0.00  59.   999.   2 NAD-SFC NoSubs
 8  7 26 208 22  -41.2  0.398 -9.000 -9.000 -999.  604.    136.3  0.1750  0.52  1.00  4.60  268.0  15.0  297.8  2.0  0  0.00  69.  1000.   2 NAD-SFC NoSubs
 8  7 26 208 23  -38.8  0.373 -9.000 -9.000 -999.  546.    119.0  0.2160  0.52  1.00  4.10  294.0  15.0  296.5  2.0  0  0.00  73.  1000.   2 NAD-SFC NoSubs
 8  7 26 208 24  -30.2  0.297 -9.000 -9.000 -999.  391.     77.3  0.2720  0.52  1.00  3.10  307.0  15.0  295.9  2.0  0  0.00  75.  1001.   3 NAD-SFC NoSubs
 8  7 27 209  1  -30.9  0.303 -9.000 -9.000 -999.  401.     80.7  0.2930  0.52  1.00  3.10  346.0  15.0  295.6  2.0  0  0.00  76.  1001.   3 NAD-SFC NoSubs
 8  7 27 209  2  -31.0  0.304 -9.000 -9.000 -999.  401.     80.7  0.2940  0.52  1.00  3.10   10.0  15.0  295.0  2.0  0  0.00  78.  1002.   3 NAD-SFC NoSubs
 8  7 27 209  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  294.4  2.0  0  0.00  79.  1002.   3 NAD-SFC NoSubs
 8  7 27 209  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  293.8  2.0  0  0.00  80.  1002.   3 NAD-SFC NoSubs
 8  7 27 209  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  293.2  2.0  0  0.00  81.  1002.   3 NAD-SFC NoSubs
 8  7 27 209  6   -6.9  0.141 -9.000 -9.000 -999.  127.     36.0  0.2930  0.52  0.56  1.50  351.0  15.0  293.0  2.0  0  0.00  82.  1003.   3 NAD-SFC NoSubs
 8  7 27 209  7   29.0  0.251  0.570  0.009  229.  301.    -48.5  0.2930  0.52  0.31  2.10  360.0  15.0  293.5  2.0  0  0.00  74.  1003.   3 NAD-SFC NoSubs
 8  7 27 209  8   75.3  0.165  0.889  0.009  333.  164.     -5.4  0.2930  0.52  0.22  1.00  345.0  15.0  295.0  2.0  0  0.00  67.  1003.   3 NAD-SFC NoSubs
 8  7 27 209  9  116.4  0.113  1.143  0.009  459.   92.     -1.1  0.2720  0.52  0.20  0.50  328.0  15.0  296.6  2.0  0  0.00  62.  1003.   3 NAD-SFC NoSubs
 8  7 27 209 10  149.4 -9.000 -9.000 -9.000  590. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  298.2  2.0  0  0.00  58.  1003.   3 NAD-SFC NoSubs
 8  7 27 209 11  172.7 -9.000 -9.000 -9.000  721. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  299.8  2.0  0  0.00  54.  1002.   2 NAD-SFC NoSubs
 8  7 27 209 12  185.1 -9.000 -9.000 -9.000  847. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.5  2.0  0  0.00  49.  1002.   2 NAD-SFC NoSubs
 8  7 27 209 13  186.4  0.123  1.710  0.008  958.  103.     -1.0  0.2930  0.52  0.19  0.50  332.0  15.0  302.8  2.0  0  0.00  45.  1001.   2 NAD-SFC NoSubs
 8  7 27 209 14  176.9  0.184  1.739  0.009 1063.  190.     -3.1  0.2930  0.52  0.19  1.00  337.0  15.0  303.8  2.0  0  0.00  41.  1000.   2 NAD-SFC NoSubs
 8  7 27 209 15  155.8  0.234  1.710  0.009 1147.  271.     -7.3  0.2930  0.52  0.19  1.50  351.0  15.0  304.2  2.0  0  0.00  38.  1000.   2 NAD-SFC NoSubs
 8  7 27 209 16  124.7  0.286  1.618  0.010 1211.  367.    -16.7  0.2930  0.52  0.20  2.10  349.0  15.0  304.8  2.0  0  0.00  36.   999.   2 NAD-SFC NoSubs
 8  7 27 209 17   84.8  0.321  1.438  0.010 1252.  437.    -34.9  0.2940  0.52  0.22  2.60    1.0  15.0  304.5  2.0  0  0.00  39.   999.   2 NAD-SFC NoSubs
 8  7 27 209 18   38.7  0.302  1.112  0.010 1268.  399.    -63.7  0.2930  0.52  0.29  2.60  359.0  15.0  304.0  2.0  0  0.00  47.  1000.   2 NAD-SFC NoSubs
 8  7 27 209 19  -11.5  0.303 -9.000 -9.000 -999.  400.    215.1  0.2720  0.52  0.51  3.10  316.0  15.0  302.8  2.0  0  0.00  49.  1000.   2 NAD-SFC NoSubs
 8  7 27 209 20  -47.0  0.468 -9.000 -9.000 -999.  768.    194.5  0.2160  0.52  1.00  5.10  285.0  15.0  299.5  2.0  0  0.00  57.  1001.   3 NAD-SFC NoSubs
 8  7 27 209 21  -45.1  0.443 -9.000 -9.000 -999.  709.    172.5  0.1750  0.52  1.00  5.10  267.0  15.0  296.0  2.0  0  0.00  66.  1001.   3 NAD-SFC NoSubs
 8  7 27 209 22  -43.0  0.420 -9.000 -9.000 -999.  654.    154.2  0.2160  0.52  1.00  4.60  270.0  15.0  294.5  2.0  0  0.00  71.  1002.   3 NAD-SFC NoSubs
 8  7 27 209 23  -43.1  0.420 -9.000 -9.000 -999.  653.    153.7  0.2160  0.52  1.00  4.60  272.0  15.0  293.6  2.0  0  0.00  74.  1002.   3 NAD-SFC NoSubs
 8  7 27 209 24  -33.4  0.325 -9.000 -9.000 -999.  451.     92.1  0.2160  0.52  1.00  3.60  290.0  15.0  293.2  2.0  0  0.00  76.  1002.   3 NAD-SFC NoSubs
 8  7 28 210  1  -24.5  0.246 -9.000 -9.000 -999.  296.     54.5  0.2720  0.52  1.00  2.60  314.0  15.0  293.2  2.0  0  0.00  76.  1003.   3 NAD-SFC NoSubs
 8  7 28 210  2  -31.2  0.303 -9.000 -9.000 -999.  401.     79.9  0.2930  0.52  1.00  3.10  342.0  15.0  293.0  2.0  0  0.00  78.  1003.   3 NAD-SFC NoSubs
 8  7 28 210  3  -31.3  0.303 -9.000 -9.000 -999.  401.     79.8  0.2930  0.52  1.00  3.10  351.0  15.0  292.5  2.0  0  0.00  82.  1003.   3 NAD-SFC NoSubs
 8  7 28 210  4  -25.5  0.252 -9.000 -9.000 -999.  304.     56.0  0.2930  0.52  1.00  2.60  346.0  15.0  291.8  2.0  0  0.00  86.  1003.   3 NAD-SFC NoSubs
 8  7 28 210  5  -25.5  0.252 -9.000 -9.000 -999.  303.     55.9  0.2930  0.52  1.00  2.60  337.0  15.0  291.2  2.0  0  0.00  89.  1004.   3 NAD-SFC NoSubs
 8  7 28 210  6  -19.6  0.254 -9.000 -9.000 -999.  307.     74.8  0.2930  0.52  0.57  2.60  341.0  15.0  290.8  2.0  0  0.00  89.  1004.   3 NAD-SFC NoSubs
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 8  7 28 210  7   26.7  0.295  0.544  0.007  216.  384.    -86.0  0.2930  0.52  0.31   2.60  346.0  15.0  291.5  2.0   0  0.00   80.  1005.    2 NAD-SFC NoSubs
 8  7 28 210  8   73.5  0.165  0.858  0.008  308.  171.     -5.5  0.2930  0.52  0.23   1.00  341.0  15.0  293.2  2.0   0  0.00   72.  1005.    2 NAD-SFC NoSubs
 8  7 28 210  9  115.1 -9.000 -9.000 -9.000  427. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  295.0  2.0   0  0.00   66.  1004.    2 NAD-SFC NoSubs
 8  7 28 210 10  148.4 -9.000 -9.000 -9.000  588. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  296.8  2.0   0  0.00   61.  1004.    2 NAD-SFC NoSubs
 8  7 28 210 11  171.9 -9.000 -9.000 -9.000  751. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  298.4  2.0   0  0.00   56.  1004.    2 NAD-SFC NoSubs
 8  7 28 210 12  184.2 -9.000 -9.000 -9.000  908. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  300.1  2.0   0  0.00   50.  1003.    2 NAD-SFC NoSubs
 8  7 28 210 13  185.4  0.121  1.738  0.012 1014.  101.     -1.0  0.2720  0.52  0.19   0.50  309.0  15.0  301.2  2.0   0  0.00   46.  1002.    2 NAD-SFC NoSubs
 8  7 28 210 14  175.8  0.122  1.747  0.013 1084.  102.     -1.0  0.2930  0.52  0.19   0.50  332.0  15.0  302.2  2.0   0  0.00   44.  1001.    2 NAD-SFC NoSubs
 8  7 28 210 15  154.7  0.181  1.703  0.013 1141.  185.     -3.4  0.2930  0.52  0.19   1.00  348.0  15.0  302.8  2.0   0  0.00   42.  1001.    2 NAD-SFC NoSubs
 8  7 28 210 16  123.7  0.332  1.601  0.014 1186.  459.    -26.4  0.2930  0.52  0.20   2.60  360.0  15.0  303.4  2.0   0  0.00   46.  1000.    2 NAD-SFC NoSubs
 8  7 28 210 17   83.7  0.367  1.417  0.014 1214.  534.    -52.8  0.2940  0.52  0.22   3.10   12.0  15.0  303.2  2.0   0  0.00   48.  1000.    2 NAD-SFC NoSubs
 8  7 28 210 18   37.6  0.302  1.089  0.014 1225.  400.    -65.1  0.2940  0.52  0.29   2.60   12.0  15.0  302.9  2.0   0  0.00   55.  1001.    2 NAD-SFC NoSubs
 8  7 28 210 19   -1.6 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.51   0.00    0.0  15.0  301.8  2.0   0  0.00   57.  1001.    2 NAD-SFC NoSubs
 8  7 28 210 20  -40.8  0.406 -9.000 -9.000 -999.  621.    146.7  0.2930  0.52  1.00   4.10  349.0  15.0  299.8  2.0   0  0.00   61.  1001.    3 NAD-SFC NoSubs
 8  7 28 210 21  -35.8  0.355 -9.000 -9.000 -999.  509.    111.2  0.2930  0.52  1.00   3.60  338.0  15.0  298.1  2.0   0  0.00   67.  1001.    3 NAD-SFC NoSubs
 8  7 28 210 22  -36.0  0.355 -9.000 -9.000 -999.  507.    110.8  0.2930  0.52  1.00   3.60  330.0  15.0  297.0  2.0   0  0.00   71.  1002.    3 NAD-SFC NoSubs
 8  7 28 210 23  -35.3  0.347 -9.000 -9.000 -999.  491.    105.7  0.2720  0.52  1.00   3.60  315.0  15.0  296.0  2.0   0  0.00   74.  1002.    3 NAD-SFC NoSubs
 8  7 28 210 24  -30.3  0.297 -9.000 -9.000 -999.  389.     77.1  0.2720  0.52  1.00   3.10  310.0  15.0  295.2  2.0   0  0.00   77.  1002.    3 NAD-SFC NoSubs
 8  7 29 211  1  -31.0  0.303 -9.000 -9.000 -999.  401.     80.4  0.2930  0.52  1.00   3.10  332.0  15.0  294.5  2.0   0  0.00   79.  1002.    3 NAD-SFC NoSubs
 8  7 29 211  2  -31.1  0.303 -9.000 -9.000 -999.  401.     80.1  0.2930  0.52  1.00   3.10  348.0  15.0  293.6  2.0   0  0.00   82.  1003.    3 NAD-SFC NoSubs
 8  7 29 211  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  292.6  2.0   0  0.00   85.  1003.    3 NAD-SFC NoSubs
 8  7 29 211  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  291.8  2.0   0  0.00   87.  1003.    3 NAD-SFC NoSubs
 8  7 29 211  5  -16.4  0.200 -9.000 -9.000 -999.  215.     43.7  0.2940  0.52  1.00   2.10    2.0  15.0  291.1  2.0   0  0.00   88.  1003.    3 NAD-SFC NoSubs
 8  7 29 211  6  -14.4  0.202 -9.000 -9.000 -999.  218.     51.2  0.2930  0.52  0.57   2.10  354.0  15.0  290.8  2.0   0  0.00   88.  1004.    3 NAD-SFC NoSubs
 8  7 29 211  7   27.5  0.250  0.486  0.007  150.  299.    -50.6  0.2930  0.52  0.31   2.10  358.0  15.0  291.8  2.0   0  0.00   77.  1004.    3 NAD-SFC NoSubs
 8  7 29 211  8   73.2  0.108  0.804  0.008  254.  101.     -1.5  0.2930  0.52  0.23   0.50  340.0  15.0  293.5  2.0   0  0.00   70.  1004.    2 NAD-SFC NoSubs
 8  7 29 211  9  114.9 -9.000 -9.000 -9.000  363. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  295.5  2.0   0  0.00   62.  1004.    2 NAD-SFC NoSubs
 8  7 29 211 10  148.2 -9.000 -9.000 -9.000  571. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  297.2  2.0   0  0.00   57.  1003.    2 NAD-SFC NoSubs
 8  7 29 211 11  171.8 -9.000 -9.000 -9.000  771. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  298.9  2.0   0  0.00   53.  1003.    2 NAD-SFC NoSubs
 8  7 29 211 12  184.1 -9.000 -9.000 -9.000  940. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  300.4  2.0   0  0.00   48.  1002.    2 NAD-SFC NoSubs
 8  7 29 211 13  185.3 -9.000 -9.000 -9.000 1031. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  301.5  2.0   0  0.00   45.  1001.    2 NAD-SFC NoSubs
 8  7 29 211 14  175.6  0.122  1.753  0.012 1097.  102.     -1.0  0.2930  0.52  0.19   0.50  345.0  15.0  302.4  2.0   0  0.00   43.  1001.    2 NAD-SFC NoSubs
 8  7 29 211 15  154.6 -9.000 -9.000 -9.000 1153. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  303.1  2.0   0  0.00   41.  1000.    2 NAD-SFC NoSubs
 8  7 29 211 16  123.2  0.332  1.603  0.012 1195.  459.    -26.5  0.2940  0.52  0.20   2.60   12.0  15.0  303.2  2.0   0  0.00   41.  1000.    2 NAD-SFC NoSubs
 8  7 29 211 17   83.1  0.367  1.417  0.012 1222.  533.    -53.0  0.2940  0.52  0.22   3.10    9.0  15.0  303.0  2.0   0  0.00   46.  1000.    2 NAD-SFC NoSubs
 8  7 29 211 18   36.7  0.347  1.083  0.012 1232.  492.   -101.8  0.2940  0.52  0.29   3.10   24.0  15.0  302.2  2.0   0  0.00   53.  1000.    2 NAD-SFC NoSubs
 8  7 29 211 19  -14.2  0.362 -9.000 -9.000 -999.  523.    298.8  0.2940  0.52  0.52   3.60   14.0  15.0  301.2  2.0   0  0.00   56.  1000.    3 NAD-SFC NoSubs
 8  7 29 211 20  -35.6  0.355 -9.000 -9.000 -999.  507.    112.0  0.2930  0.52  1.00   3.60  350.0  15.0  300.0  2.0   0  0.00   58.  1001.    3 NAD-SFC NoSubs
 8  7 29 211 21  -40.9  0.406 -9.000 -9.000 -999.  621.    146.1  0.2930  0.52  1.00   4.10  331.0  15.0  298.6  2.0   0  0.00   63.  1001.    3 NAD-SFC NoSubs
 8  7 29 211 22  -35.2  0.347 -9.000 -9.000 -999.  493.    106.1  0.2720  0.52  1.00   3.60  326.0  15.0  297.0  2.0   0  0.00   70.  1001.    3 NAD-SFC NoSubs
 8  7 29 211 23  -35.4  0.347 -9.000 -9.000 -999.  491.    105.6  0.2720  0.52  1.00   3.60  327.0  15.0  295.6  2.0   0  0.00   75.  1002.    3 NAD-SFC NoSubs
 8  7 29 211 24  -36.3  0.355 -9.000 -9.000 -999.  507.    109.7  0.2930  0.52  1.00   3.60  344.0  15.0  294.2  2.0   0  0.00   78.  1002.    3 NAD-SFC NoSubs
 8  7 30 212  1  -31.2  0.303 -9.000 -9.000 -999.  402.     80.0  0.2930  0.52  1.00   3.10  349.0  15.0  293.2  2.0   0  0.00   79.  1002.    3 NAD-SFC NoSubs
 8  7 30 212  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  292.2  2.0   0  0.00   81.  1002.    3 NAD-SFC NoSubs
 8  7 30 212  3  -25.5  0.252 -9.000 -9.000 -999.  304.     56.0  0.2940  0.52  1.00   2.60    8.0  15.0  291.5  2.0   0  0.00   83.  1003.    3 NAD-SFC NoSubs
 8  7 30 212  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  290.8  2.0   0  0.00   85.  1003.    3 NAD-SFC NoSubs
 8  7 30 212  5   -8.2  0.140 -9.000 -9.000 -999.  125.     29.8  0.2930  0.52  1.00   1.50  350.0  15.0  290.2  2.0   0  0.00   87.  1003.    3 NAD-SFC NoSubs
 8  7 30 212  6   -7.4  0.140 -9.000 -9.000 -999.  126.     33.2  0.2930  0.52  0.58   1.50  342.0  15.0  290.0  2.0   0  0.00   88.  1003.    2 NAD-SFC NoSubs
 8  7 30 212  7   25.5  0.193  0.490  0.010  165.  203.    -25.1  0.2930  0.52  0.31   1.50  355.0  15.0  290.8  2.0   0  0.00   80.  1003.    2 NAD-SFC NoSubs
 8  7 30 212  8   72.5 -9.000 -9.000 -9.000  268. -999. -99999.0  0.2235  0.52  0.23   0.00    0.0  15.0  292.8  2.0   0  0.00   72.  1003.    2 NAD-SFC NoSubs
 8  7 30 212  9  114.2 -9.000 -9.000 -9.000  369. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  294.8  2.0   0  0.00   64.  1003.    2 NAD-SFC NoSubs
 8  7 30 212 10  147.7 -9.000 -9.000 -9.000  562. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  296.8  2.0   0  0.00   58.  1002.    2 NAD-SFC NoSubs
 8  7 30 212 11  171.3 -9.000 -9.000 -9.000  714. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  298.5  2.0   0  0.00   53.  1001.    2 NAD-SFC NoSubs
 8  7 30 212 12  183.7 -9.000 -9.000 -9.000  822. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  300.1  2.0   0  0.00   48.  1000.    2 NAD-SFC NoSubs
 8  7 30 212 13  185.1 -9.000 -9.000 -9.000  918. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  301.6  2.0   0  0.00   44.   999.    2 NAD-SFC NoSubs
 8  7 30 212 14  175.4  0.122  1.698  0.011  996.  102.     -1.0  0.2930  0.52  0.19   0.50  344.0  15.0  302.6  2.0   0  0.00   40.   999.    2 NAD-SFC NoSubs
 8  7 30 212 15  154.3  0.234  1.658  0.011 1054.  271.     -7.4  0.2940  0.52  0.19   1.50   10.0  15.0  303.1  2.0   0  0.00   39.   998.    2 NAD-SFC NoSubs
 8  7 30 212 16  122.7  0.275  1.557  0.011 1097.  346.    -15.1  0.2470  0.52  0.20   2.10   34.0  15.0  303.0  2.0   0  0.00   40.   998.    2 NAD-SFC NoSubs
 8  7 30 212 17   82.4  0.309  1.375  0.010 1124.  412.    -31.8  0.2470  0.52  0.22   2.60   45.0  15.0  302.6  2.0   0  0.00   49.   998.    2 NAD-SFC NoSubs
 8  7 30 212 18   36.1  0.290  1.048  0.010 1135.  374.    -60.0  0.2470  0.52  0.29   2.60   45.0  15.0  301.9  2.0   0  0.00   52.   998.    2 NAD-SFC NoSubs
 8  7 30 212 19   -5.4  0.144 -9.000 -9.000 -999.  147.     49.4  0.2940  0.52  0.52   1.50   16.0  15.0  300.9  2.0   0  0.00   55.   998.    3 NAD-SFC NoSubs
 8  7 30 212 20   -1.4  0.079 -9.000 -9.000 -999.   55.     30.9  0.2160  0.52  1.00   0.50  296.0  15.0  299.8  2.0   0  0.00   59.   999.    3 NAD-SFC NoSubs
 8  7 30 212 21  -19.9  0.219 -9.000 -9.000 -999.  245.     46.7  0.1750  0.52  1.00   2.60  268.0  15.0  299.0  2.0   0  0.00   62.   999.    3 NAD-SFC NoSubs
 8  7 30 212 22  -35.8  0.353 -9.000 -9.000 -999.  504.    109.7  0.1750  0.52  1.00   4.10  267.0  15.0  296.5  2.0   0  0.00   72.   999.    3 NAD-SFC NoSubs
 8  7 30 212 23  -36.0  0.353 -9.000 -9.000 -999.  504.    109.0  0.1750  0.52  1.00   4.10  267.0  15.0  294.8  2.0   0  0.00   78.   999.    3 NAD-SFC NoSubs
 8  7 30 212 24  -26.9  0.263 -9.000 -9.000 -999.  329.     60.6  0.1750  0.52  1.00   3.10  268.0  15.0  294.2  2.0   0  0.00   79.  1000.    3 NAD-SFC NoSubs
 8  7 31 213  1  -28.4  0.278 -9.000 -9.000 -999.  352.     67.5  0.2160  0.52  1.00   3.10  289.0  15.0  294.0  2.0   0  0.00   80.  1000.    3 NAD-SFC NoSubs
 8  7 31 213  2  -35.5  0.347 -9.000 -9.000 -999.  490.    104.9  0.2720  0.52  1.00   3.60  310.0  15.0  293.8  2.0   0  0.00   82.  1000.    3 NAD-SFC NoSubs
 8  7 31 213  3  -30.4  0.297 -9.000 -9.000 -999.  389.     76.6  0.2720  0.52  1.00   3.10  319.0  15.0  293.2  2.0   0  0.00   85.  1001.    3 NAD-SFC NoSubs
 8  7 31 213  4  -24.5  0.246 -9.000 -9.000 -999.  294.     54.4  0.2720  0.52  1.00   2.60  320.0  15.0  292.8  2.0   0  0.00   87.  1001.    3 NAD-SFC NoSubs
 8  7 31 213  5  -24.8  0.246 -9.000 -9.000 -999.  293.     53.6  0.2720  0.52  1.00   2.60  317.0  15.0  292.2  2.0   0  0.00   90.  1001.    2 NAD-SFC NoSubs
 8  7 31 213  6  -14.4  0.197 -9.000 -9.000 -999.  211.     47.5  0.2720  0.52  0.58   2.10  321.0  15.0  291.8  2.0   0  0.00   91.  1001.    2 NAD-SFC NoSubs
 8  7 31 213  7   25.5  0.193  0.498  0.008  172.  203.    -25.0  0.2930  0.52  0.31   1.50  349.0  15.0  292.6  2.0   0  0.00   83.  1001.    2 NAD-SFC NoSubs
 8  7 31 213  8   72.6  0.108  0.842  0.008  293.   88.     -1.6  0.2930  0.52  0.23   0.50  337.0  15.0  294.4  2.0   0  0.00   75.  1001.    2 NAD-SFC NoSubs
 8  7 31 213  9  114.4 -9.000 -9.000 -9.000  432. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  296.1  2.0   0  0.00   69.  1001.    2 NAD-SFC NoSubs
 8  7 31 213 10  147.9 -9.000 -9.000 -9.000  623. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  297.9  2.0   0  0.00   64.  1000.    2 NAD-SFC NoSubs
 8  7 31 213 11  171.5 -9.000 -9.000 -9.000  780. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  299.8  2.0   0  0.00   58.  1000.    2 NAD-SFC NoSubs
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 8  7 31 213 12  184.1 -9.000 -9.000 -9.000  919. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 301.6  2.0   0  0.00  50.  999.   2 NAD-SFC NoSubs
 8  7 31 213 13  185.5 -9.000 -9.000 -9.000 1011. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 303.0  2.0   0  0.00  44.  998.   2 NAD-SFC NoSubs
 8  7 31 213 14  175.9  0.122  1.743  0.012 1072.  102.     -1.0 0.2930  0.52  0.19  0.50 336.0  15.0 304.1  2.0   0  0.00  41.  997.   2 NAD-SFC NoSubs
 8  7 31 213 15  154.7  0.181  1.696  0.012 1122.  185.     -3.4 0.2930  0.52  0.19  1.00 350.0  15.0 304.8  2.0   0  0.00  39.  997.   2 NAD-SFC NoSubs
 8  7 31 213 16  123.3 -9.000 -9.000 -9.000 1161. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 305.0  2.0   0  0.00  38.  996.   2 NAD-SFC NoSubs
 8  7 31 213 17   83.0  0.321  1.404  0.012 1186.  436.    -35.4 0.2940  0.52  0.22  2.60   8.0  15.0 304.8  2.0   0  0.00  43.  996.   2 NAD-SFC NoSubs
 8  7 31 213 18   36.6  0.347  1.071  0.012 1195.  491.   -102.0 0.2940  0.52  0.29  3.10  14.0  15.0 304.0  2.0   0  0.00  52.  997.   2 NAD-SFC NoSubs
 8  7 31 213 19  -17.7  0.360 -9.000 -9.000 -999.  518.    233.6 0.2930  0.52  0.53  3.60 346.0  15.0 302.9  2.0   0  0.00  55.  997.   2 NAD-SFC NoSubs
 8  7 31 213 20  -41.9  0.420 -9.000 -9.000 -999.  654.    157.7 0.2160  0.52  1.00  4.60 289.0  15.0 300.9  2.0   0  0.00  58.  998.   3 NAD-SFC NoSubs
 8  7 31 213 21  -45.9  0.443 -9.000 -9.000 -999.  707.    168.5 0.1750  0.52  1.00  5.10 266.0  15.0 297.1  2.0   0  0.00  66.  998.   2 NAD-SFC NoSubs
 8  7 31 213 22  -41.5  0.398 -9.000 -9.000 -999.  604.    135.1 0.1750  0.52  1.00  4.60 267.0  15.0 295.2  2.0   0  0.00  69.  998.   2 NAD-SFC NoSubs
 8  7 31 213 23  -28.3  0.278 -9.000 -9.000 -999.  361.     67.7 0.2160  0.52  1.00  3.10 278.0  15.0 294.9  2.0   0  0.00  71.  998.   3 NAD-SFC NoSubs
 8  7 31 213 24  -28.3  0.278 -9.000 -9.000 -999.  352.     67.8 0.2160  0.52  1.00  3.10 289.0  15.0 295.0  2.0   0  0.00  71.  998.   3 NAD-SFC NoSubs
 8  8  1 214  1  -35.4  0.347 -9.000 -9.000 -999.  490.    105.2 0.2720  0.52  1.00  3.60 322.0  15.0 294.5  2.0   0  0.00  77.  999.   3 NAD-SFC NoSubs
 8  8  1 214  2  -36.3  0.355 -9.000 -9.000 -999.  507.    109.5 0.2930  0.52  1.00  3.60 341.0  15.0 293.6  2.0   0  0.00  83.  999.   3 NAD-SFC NoSubs
 8  8  1 214  3  -31.1  0.303 -9.000 -9.000 -999.  402.     79.8 0.2930  0.52  1.00  3.10 340.0  15.0 292.8  2.0   0  0.00  86. 1000.   3 NAD-SFC NoSubs
 8  8  1 214  4  -25.7  0.252 -9.000 -9.000 -999.  304.     55.2 0.2930  0.52  1.00  2.60 354.0  15.0 292.0  2.0   0  0.00  87. 1000.   2 NAD-SFC NoSubs
 8  8  1 214  5  -16.5  0.200 -9.000 -9.000 -999.  215.     43.0 0.2930  0.52  1.00  2.10 345.0  15.0 291.4  2.0   0  0.00  88. 1001.   2 NAD-SFC NoSubs
 8  8  1 214  6  -15.1  0.201 -9.000 -9.000 -999.  217.     48.3 0.2930  0.52  0.59  2.10 342.0  15.0 291.1  2.0   0  0.00  87. 1001.   2 NAD-SFC NoSubs
 8  8  1 214  7   24.8  0.248  0.477  0.009  156.  296.    -54.6 0.2930  0.52  0.31  2.10 347.0  15.0 291.9  2.0   0  0.00  76. 1002.   2 NAD-SFC NoSubs
 8  8  1 214  8   71.9  0.108  0.791  0.010  246.  100.     -1.6 0.2930  0.52  0.23  0.50 352.0  15.0 293.6  2.0   0  0.00  70. 1002.   2 NAD-SFC NoSubs
 8  8  1 214  9  113.9 -9.000 -9.000 -9.000  328. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 295.9  2.0   0  0.00  63. 1002.   2 NAD-SFC NoSubs
 8  8  1 214 10  147.5 -9.000 -9.000 -9.000  479. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 297.8  2.0   0  0.00  58. 1001.   2 NAD-SFC NoSubs
 8  8  1 214 11  171.2 -9.000 -9.000 -9.000  712. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 299.6  2.0   0  0.00  54. 1001.   2 NAD-SFC NoSubs
 8  8  1 214 12  183.6 -9.000 -9.000 -9.000  844. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 301.2  2.0   0  0.00  49. 1000.   2 NAD-SFC NoSubs
 8  8  1 214 13  184.9  0.121  1.707  0.013  959.  101.     -1.0 0.2720  0.52  0.19  0.50 307.0  15.0 302.5  2.0   0  0.00  46.  999.   2 NAD-SFC NoSubs
 8  8  1 214 14  175.1  0.184  1.712  0.013 1023.  189.     -3.2 0.2930  0.52  0.19  1.00 337.0  15.0 303.2  2.0   0  0.00  43.  999.   2 NAD-SFC NoSubs
 8  8  1 214 15  153.9  0.234  1.667  0.012 1072.  271.     -7.4 0.2940  0.52  0.19  1.50   5.0  15.0 303.9  2.0   0  0.00  42.  998.   2 NAD-SFC NoSubs
 8  8  1 214 16  122.4 -9.000 -9.000 -9.000 1109. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 304.1  2.0   0  0.00  42.  998.   2 NAD-SFC NoSubs
 8  8  1 214 17   82.0  0.321  1.376  0.012 1132.  436.    -35.8 0.2940  0.52  0.22  2.60   9.0  15.0 303.8  2.0   0  0.00  47.  998.   2 NAD-SFC NoSubs
 8  8  1 214 18   35.6  0.347  1.045  0.012 1142.  490.   -104.4 0.2940  0.52  0.30  3.10   6.0  15.0 303.2  2.0   0  0.00  53.  998.   2 NAD-SFC NoSubs
 8  8  1 214 19  -22.2  0.412 -9.000 -9.000 -999.  634.    279.8 0.2940  0.52  0.53  4.10   5.0  15.0 302.1  2.0   0  0.00  56.  998.   2 NAD-SFC NoSubs
 8  8  1 214 20  -41.7  0.406 -9.000 -9.000 -999.  621.    142.9 0.2930  0.52  1.00  4.10 347.0  15.0 300.0  2.0   0  0.00  63.  999.   2 NAD-SFC NoSubs
 8  8  1 214 21  -35.7  0.355 -9.000 -9.000 -999.  509.    111.4 0.2930  0.52  1.00  3.60 340.0  15.0 298.4  2.0   0  0.00  68.  999.   3 NAD-SFC NoSubs
 8  8  1 214 22  -30.6  0.303 -9.000 -9.000 -999.  402.     81.3 0.2930  0.52  1.00  3.10 335.0  15.0 297.8  2.0   0  0.00  70.  999.   3 NAD-SFC NoSubs
 8  8  1 214 23  -30.7  0.303 -9.000 -9.000 -999.  401.     81.0 0.2930  0.52  1.00  3.10 331.0  15.0 296.9  2.0   0  0.00  72.  999.   3 NAD-SFC NoSubs
 8  8  1 214 24  -31.6  0.303 -9.000 -9.000 -999.  401.     78.6 0.2930  0.52  1.00  3.10 343.0  15.0 296.0  2.0   0  0.00  75.  999.   2 NAD-SFC NoSubs
 8  8  2 215  1  -37.1  0.354 -9.000 -9.000 -999.  506.    107.0 0.2930  0.52  1.00  3.60 360.0  15.0 294.8  2.0   0  0.00  81.  999.   2 NAD-SFC NoSubs
 8  8  2 215  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 293.8  2.0   0  0.00  85.  999.   2 NAD-SFC NoSubs
 8  8  2 215  3  -25.7  0.252 -9.000 -9.000 -999.  303.     55.4 0.2940  0.52  1.00  2.60  10.0  15.0 293.0  2.0   0  0.00  88. 1000.   2 NAD-SFC NoSubs
 8  8  2 215  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 292.4  2.0   0  0.00  90. 1000.   2 NAD-SFC NoSubs
 8  8  2 215  5   -8.2  0.140 -9.000 -9.000 -999.  125.     29.5 0.2930  0.52  1.00  1.50 349.0  15.0 291.9  2.0   0  0.00  91. 1000.   2 NAD-SFC NoSubs
 8  8  2 215  6   -1.4  0.077 -9.000 -9.000 -999.   52.     30.0 0.2720  0.52  0.59  0.50 321.0  15.0 291.6  2.0   0  0.00  93. 1000.   2 NAD-SFC NoSubs
 8  8  2 215  7   24.6  0.145  0.460  0.011  141.  133.    -11.1 0.2930  0.52  0.31  1.00 349.0  15.0 292.6  2.0   0  0.00  85. 1000.   2 NAD-SFC NoSubs
 8  8  2 215  8   71.8 -9.000 -9.000 -9.000  244. -999. -99999.0 0.2235  0.52  0.23  0.00   0.0  15.0 294.5  2.0   0  0.00  76. 1000.   2 NAD-SFC NoSubs
 8  8  2 215  9  113.7 -9.000 -9.000 -9.000  351. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 296.2  2.0   0  0.00  69. 1000.   2 NAD-SFC NoSubs
 8  8  2 215 10  147.3 -9.000 -9.000 -9.000  539. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 298.2  2.0   0  0.00  61.  999.   2 NAD-SFC NoSubs
 8  8  2 215 11  171.1 -9.000 -9.000 -9.000  725. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 300.2  2.0   0  0.00  55.  998.   2 NAD-SFC NoSubs
 8  8  2 215 12  183.5 -9.000 -9.000 -9.000  872. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 301.8  2.0   0  0.00  50.  997.   2 NAD-SFC NoSubs
 8  8  2 215 13  185.0 -9.000 -9.000 -9.000  984. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 303.2  2.0   0  0.00  46.  997.   2 NAD-SFC NoSubs
 8  8  2 215 14  175.4  0.122  1.722  0.014 1036.  102.     -1.0 0.2930  0.52  0.19  0.50 339.0  15.0 304.5  2.0   0  0.00  42.  996.   2 NAD-SFC NoSubs
 8  8  2 215 15  154.2  0.181  1.673  0.013 1080.  185.     -3.4 0.2930  0.52  0.19  1.00 360.0  15.0 305.2  2.0   0  0.00  40.  996.   2 NAD-SFC NoSubs
 8  8  2 215 16  123.0  0.332  1.568  0.013 1114.  460.    -26.5 0.2940  0.52  0.20  2.60   3.0  15.0 306.0  2.0   0  0.00  40.  995.   2 NAD-SFC NoSubs
 8  8  2 215 17   82.5 -9.000 -9.000 -9.000 1135. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 305.6  2.0   0  0.00  48.  995.   2 NAD-SFC NoSubs
 8  8  2 215 18   36.0 -9.000 -9.000 -9.000 1143. -999. -99999.0 0.2235  0.52  0.30  0.00   0.0  15.0 305.2  2.0   0  0.00  53.  995.   2 NAD-SFC NoSubs
 8  8  2 215 19  -16.1  0.308 -9.000 -9.000 -999.  410.    160.9 0.2940  0.52  0.54  3.10   4.0  15.0 304.2  2.0   0  0.00  56.  996.   2 NAD-SFC NoSubs
 8  8  2 215 20  -30.0  0.303 -9.000 -9.000 -999.  401.     82.8 0.2930  0.52  1.00  3.10 341.0  15.0 302.9  2.0   0  0.00  59.  996.   3 NAD-SFC NoSubs
 8  8  2 215 21  -29.5  0.297 -9.000 -9.000 -999.  388.     78.9 0.2720  0.52  1.00  3.10 327.0  15.0 301.8  2.0   0  0.00  62.  996.   3 NAD-SFC NoSubs
 8  8  2 215 22  -34.6  0.347 -9.000 -9.000 -999.  491.    107.4 0.2720  0.52  1.00  3.60 317.0  15.0 300.5  2.0   0  0.00  67.  996.   3 NAD-SFC NoSubs
 8  8  2 215 23  -34.7  0.347 -9.000 -9.000 -999.  491.    107.0 0.2720  0.52  1.00  3.60 317.0  15.0 299.4  2.0   0  0.00  70.  996.   3 NAD-SFC NoSubs
 8  8  2 215 24  -35.6  0.355 -9.000 -9.000 -999.  507.    111.4 0.2930  0.52  1.00  3.60 330.0  15.0 298.4  2.0   0  0.00  74.  996.   3 NAD-SFC NoSubs
 8  8  3 216  1  -35.8  0.355 -9.000 -9.000 -999.  507.    110.8 0.2930  0.52  1.00  3.60 346.0  15.0 297.0  2.0   0  0.00  80.  997.   3 NAD-SFC NoSubs
 8  8  3 216  2  -35.9  0.355 -9.000 -9.000 -999.  507.    110.3 0.2930  0.52  1.00  3.60 359.0  15.0 295.8  2.0   0  0.00  84.  997.   3 NAD-SFC NoSubs
 8  8  3 216  3  -30.9  0.303 -9.000 -9.000 -999.  402.     80.5 0.2930  0.52  1.00  3.10 357.0  15.0 294.9  2.0   0  0.00  86.  998.   3 NAD-SFC NoSubs
 8  8  3 216  4  -30.9  0.303 -9.000 -9.000 -999.  401.     80.3 0.2930  0.52  1.00  3.10 348.0  15.0 294.2  2.0   0  0.00  86.  998.   3 NAD-SFC NoSubs
 8  8  3 216  5  -25.3  0.252 -9.000 -9.000 -999.  304.     56.2 0.2930  0.52  1.00  2.60 349.0  15.0 293.6  2.0   0  0.00  86.  999.   3 NAD-SFC NoSubs
 8  8  3 216  6   -7.4  0.140 -9.000 -9.000 -999.  132.     33.3 0.2930  0.52  0.60  1.50 352.0  15.0 293.2  2.0   0  0.00  86.  999.   3 NAD-SFC NoSubs
 8  8  3 216  7   25.8  0.294  0.456  0.005  131.  383.    -87.9 0.2930  0.52  0.32  2.60 347.0  15.0 294.2  2.0   0  0.00  74. 1000.   3 NAD-SFC NoSubs
 8  8  3 216  8   71.8  0.164  0.775  0.009  232.  170.     -5.5 0.2930  0.52  0.23  1.00 353.0  15.0 295.8  2.0   0  0.00  68. 1000.   2 NAD-SFC NoSubs
 8  8  3 216  9  114.0 -9.000 -9.000 -9.000  335. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 298.1  2.0   0  0.00  60.  999.   2 NAD-SFC NoSubs
 8  8  3 216 10  147.8 -9.000 -9.000 -9.000  500. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 300.0  2.0   0  0.00  55.  999.   2 NAD-SFC NoSubs
 8  8  3 216 11  171.5 -9.000 -9.000 -9.000  727. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 301.8  2.0   0  0.00  51.  998.   2 NAD-SFC NoSubs
 8  8  3 216 12  184.0 -9.000 -9.000 -9.000  963. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 303.2  2.0   0  0.00  47.  997.   2 NAD-SFC NoSubs
 8  8  3 216 13  185.3  0.121  1.760  0.011 1048.  101.     -1.0 0.2720  0.52  0.19  0.50 309.0  15.0 304.5  2.0   0  0.00  44.  997.   2 NAD-SFC NoSubs
 8  8  3 216 14  175.4  0.181  1.767  0.011 1118.  185.     -3.0 0.2720  0.52  0.19  1.00 327.0  15.0 305.2  2.0   0  0.00  42.  996.   2 NAD-SFC NoSubs
 8  8  3 216 15  154.1  0.234  1.722  0.011 1177.  271.     -7.3 0.2930  0.52  0.19  1.50 353.0  15.0 305.8  2.0   0  0.00  41.  995.   2 NAD-SFC NoSubs
 8  8  3 216 16  122.5 -9.000 -9.000 -9.000 1221. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 305.9  2.0   0  0.00  42.  995.   2 NAD-SFC NoSubs
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 8  8  3 216 17   81.9  0.321  1.423  0.011 1249.  436.    -35.7 0.2940  0.52  0.22  2.60   8.0  15.0 305.6  2.0    0  0.00   50.  995.    2 NAD-SFC NoSubs
 8  8  3 216 18   35.3  0.301  1.079  0.011 1260.  396.    -68.1 0.2940  0.52  0.30  2.60  12.0  15.0 305.1  2.0    0  0.00   55.  995.    2 NAD-SFC NoSubs
 8  8  3 216 19  -17.2  0.308 -9.000 -9.000 -999.  409.    150.4 0.2940  0.52  0.54  3.10   2.0  15.0 304.0  2.0    0  0.00   57.  996.    2 NAD-SFC NoSubs
 8  8  3 216 20  -25.2  0.252 -9.000 -9.000 -999.  305.     56.4 0.2930  0.52  1.00  2.60 332.0  15.0 302.9  2.0    0  0.00   60.  996.    2 NAD-SFC NoSubs
 8  8  3 216 21  -37.1  0.373 -9.000 -9.000 -999.  546.    124.3 0.2160  0.52  1.00  4.10 295.0  15.0 301.4  2.0    0  0.00   64.  997.    3 NAD-SFC NoSubs
 8  8  3 216 22  -42.2  0.420 -9.000 -9.000 -999.  653.    156.3 0.2160  0.52  1.00  4.60 285.0  15.0 298.4  2.0    0  0.00   72.  998.    3 NAD-SFC NoSubs
 8  8  3 216 23  -28.1  0.278 -9.000 -9.000 -999.  366.     68.3 0.2160  0.52  1.00  3.10 283.0  15.0 297.1  2.0    0  0.00   72.  999.    3 NAD-SFC NoSubs
 8  8  3 216 24  -30.0  0.297 -9.000 -9.000 -999.  388.     77.6 0.2720  0.52  1.00  3.10 309.0  15.0 296.9  2.0    0  0.00   71.  999.    3 NAD-SFC NoSubs
 8  8  4 217  1  -30.7  0.303 -9.000 -9.000 -999.  401.     80.9 0.2930  0.52  1.00  3.10 340.0  15.0 296.4  2.0    0  0.00   74.  999.    3 NAD-SFC NoSubs
 8  8  4 217  2  -30.9  0.304 -9.000 -9.000 -999.  401.     80.8 0.2940  0.52  1.00  3.10  12.0  15.0 295.4  2.0    0  0.00   78. 1000.    3 NAD-SFC NoSubs
 8  8  4 217  3  -25.3  0.252 -9.000 -9.000 -999.  305.     56.3 0.2940  0.52  1.00  2.60  24.0  15.0 294.4  2.0    0  0.00   81. 1000.    3 NAD-SFC NoSubs
 8  8  4 217  4  -16.3  0.200 -9.000 -9.000 -999.  216.     44.0 0.2940  0.52  1.00  2.10  15.0  15.0 293.8  2.0    0  0.00   82. 1000.    3 NAD-SFC NoSubs
 8  8  4 217  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 293.0  2.0    0  0.00   82. 1000.    3 NAD-SFC NoSubs
 8  8  4 217  6   -7.5  0.140 -9.000 -9.000 -999.  126.     32.9 0.2930  0.52  0.60  1.50 355.0  15.0 292.6  2.0    0  0.00   83. 1001.    3 NAD-SFC NoSubs
 8  8  4 217  7   24.8  0.293  0.491  0.007  170.  382.    -90.8 0.2930  0.52  0.32  2.60 356.0  15.0 292.8  2.0    0  0.00   76. 1001.    3 NAD-SFC NoSubs
 8  8  4 217  8   71.4  0.214  0.812  0.009  267.  241.    -12.3 0.2940  0.52  0.23  1.50   1.0  15.0 293.8  2.0    0  0.00   70. 1001.    3 NAD-SFC NoSubs
 8  8  4 217  9  112.6 -9.000 -9.000 -9.000  364. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 295.5  2.0    0  0.00   64. 1001.    2 NAD-SFC NoSubs
 8  8  4 217 10  146.3 -9.000 -9.000 -9.000  540. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 297.4  2.0    0  0.00   58. 1000.    2 NAD-SFC NoSubs
 8  8  4 217 11  170.0 -9.000 -9.000 -9.000  706. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 299.0  2.0    0  0.00   54. 1000.    2 NAD-SFC NoSubs
 8  8  4 217 12  182.3 -9.000 -9.000 -9.000  836. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 300.4  2.0    0  0.00   52. 1000.    2 NAD-SFC NoSubs
 8  8  4 217 13  183.5  0.123  1.697  0.010  951.  103.    -1.0  0.2940  0.52  0.19  0.50   3.0  15.0 301.6  2.0    0  0.00   49.  999.    2 NAD-SFC NoSubs
 8  8  4 217 14  173.7  0.122  1.714  0.010 1034.  102.    -1.0  0.2940  0.52  0.19  0.50   2.0  15.0 302.5  2.0    0  0.00   47.  999.    2 NAD-SFC NoSubs
 8  8  4 217 15  152.3  0.120  1.674  0.010 1099.   99.    -1.0  0.2930  0.52  0.19  0.50 352.0  15.0 303.0  2.0    0  0.00   46.  999.    2 NAD-SFC NoSubs
 8  8  4 217 16  120.5  0.176  1.571  0.010 1148.  177.    -4.0  0.2930  0.52  0.20  1.00 340.0  15.0 303.1  2.0    0  0.00   46.  999.    2 NAD-SFC NoSubs
 8  8  4 217 17   80.0  0.108  1.383  0.010 1179.   86.    -1.4  0.2720  0.52  0.22  0.50 316.0  15.0 303.1  2.0    0  0.00   51.  999.    2 NAD-SFC NoSubs
 8  8  4 217 18   33.4 -9.000 -9.000 -9.000 1190. -999. -99999.0 0.2235  0.52  0.30  0.00   0.0  15.0 302.6  2.0    0  0.00   54.  999.    2 NAD-SFC NoSubs
 8  8  4 217 19   -0.9  0.066 -9.000 -9.000 -999.   40.    26.8 0.2160  0.52  0.55  0.50 271.0  15.0 301.8  2.0    0  0.00   58.  999.    2 NAD-SFC NoSubs
 8  8  4 217 20   -1.4  0.079 -9.000 -9.000 -999.   53.    30.8 0.2160  0.52  1.00  0.50 280.0  15.0 301.0  2.0    0  0.00   61.  999.    3 NAD-SFC NoSubs
 8  8  4 217 21   -3.4  0.095 -9.000 -9.000 -999.   71.    22.4 0.2160  0.52  1.00  1.00 288.0  15.0 300.4  2.0    0  0.00   63.  999.    3 NAD-SFC NoSubs
 8  8  4 217 22  -33.5  0.325 -9.000 -9.000 -999.  446.    91.7 0.2160  0.52  1.00  3.60 290.0  15.0 299.8  2.0    0  0.00   65.  999.    2 NAD-SFC NoSubs
 8  8  4 217 23  -38.6  0.373 -9.000 -9.000 -999.  546.   119.4 0.2160  0.52  1.00  4.10 287.0  15.0 297.6  2.0    0  0.00   72. 1000.    2 NAD-SFC NoSubs
 8  8  4 217 24  -33.0  0.326 -9.000 -9.000 -999.  447.    93.2 0.2160  0.52  1.00  3.60 290.0  15.0 296.5  2.0    0  0.00   73. 1000.    3 NAD-SFC NoSubs
 8  8  5 218  1  -28.3  0.278 -9.000 -9.000 -999.  353.    68.0 0.2160  0.52  1.00  3.10 282.0  15.0 295.9  2.0    0  0.00   73. 1001.    3 NAD-SFC NoSubs
 8  8  5 218  2  -28.3  0.278 -9.000 -9.000 -999.  352.    67.9 0.2160  0.52  1.00  3.10 295.0  15.0 295.6  2.0    0  0.00   73. 1001.    3 NAD-SFC NoSubs
 8  8  5 218  3  -28.4  0.278 -9.000 -9.000 -999.  352.    67.8 0.2160  0.52  1.00  3.10 298.0  15.0 295.2  2.0    0  0.00   74. 1002.    3 NAD-SFC NoSubs
 8  8  5 218  4  -28.4  0.278 -9.000 -9.000 -999.  352.    67.8 0.2160  0.52  1.00  3.10 298.0  15.0 295.0  2.0    0  0.00   77. 1002.    3 NAD-SFC NoSubs
 8  8  5 218  5  -24.5  0.246 -9.000 -9.000 -999.  294.    54.6 0.2720  0.52  1.00  2.60 314.0  15.0 294.8  2.0    0  0.00   79. 1003.    3 NAD-SFC NoSubs
 8  8  5 218  6  -14.5  0.197 -9.000 -9.000 -999.  211.    47.1 0.2720  0.52  0.61  2.10 316.0  15.0 294.4  2.0    0  0.00   80. 1003.    3 NAD-SFC NoSubs
 8  8  5 218  7   25.0  0.248  0.475  0.009  153.  296.    -54.4 0.2930  0.52  0.32  2.10 353.0  15.0 294.8  2.0    0  0.00   76. 1003.    3 NAD-SFC NoSubs
 8  8  5 218  8   71.9  0.108  0.816  0.009  270.  100.    -1.6  0.2930  0.52  0.23  0.50 356.0  15.0 296.4  2.0    0  0.00   71. 1003.    3 NAD-SFC NoSubs
 8  8  5 218  9  113.4 -9.000 -9.000 -9.000  388. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 298.5  2.0    0  0.00   63. 1003.    2 NAD-SFC NoSubs
 8  8  5 218 10  147.3 -9.000 -9.000 -9.000  540. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 300.5  2.0    0  0.00   58. 1002.    2 NAD-SFC NoSubs
 8  8  5 218 11  171.1 -9.000 -9.000 -9.000  683. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 302.2  2.0    0  0.00   52. 1002.    2 NAD-SFC NoSubs
 8  8  5 218 12  183.6 -9.000 -9.000 -9.000  850. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 303.8  2.0    0  0.00   47. 1001.    2 NAD-SFC NoSubs
 8  8  5 218 13  185.0  0.121  1.724  0.007  989.  101.    -1.0  0.2720  0.52  0.19  0.50 306.0  15.0 305.1  2.0    0  0.00   43. 1000.    2 NAD-SFC NoSubs
 8  8  5 218 14  175.2  0.120  1.749  0.007 1091.  100.    -1.0  0.2720  0.52  0.19  0.50 322.0  15.0 306.1  2.0    0  0.00   40.  999.    2 NAD-SFC NoSubs
 8  8  5 218 15  153.8  0.181  1.717  0.007 1173.  185.    -3.4  0.2930  0.52  0.19  1.00 336.0  15.0 306.8  2.0    0  0.00   38.  998.    2 NAD-SFC NoSubs
 8  8  5 218 16  122.0  0.285  1.617  0.007 1234.  366.   -16.9  0.2930  0.52  0.20  2.10 350.0  15.0 306.9  2.0    0  0.00   38.  998.    2 NAD-SFC NoSubs
 8  8  5 218 17   81.3  0.320  1.426  0.007 1272.  435.   -36.0  0.2940  0.52  0.22  2.60   5.0  15.0 306.5  2.0    0  0.00   46.  998.    2 NAD-SFC NoSubs
 8  8  5 218 18   34.3 -9.000 -9.000 -9.000 1285. -999. -99999.0 0.2235  0.52  0.30  0.00   0.0  15.0 305.6  2.0    0  0.00   53.  998.    2 NAD-SFC NoSubs
 8  8  5 218 19  -25.5  0.411 -9.000 -9.000 -999.  631.   241.8  0.2940  0.52  0.56  4.10  14.0  15.0 304.0  2.0    0  0.00   58.  998.    2 NAD-SFC NoSubs
 8  8  5 218 20  -40.4  0.397 -9.000 -9.000 -999.  601.   138.2  0.2720  0.52  1.00  4.10 318.0  15.0 303.0  2.0    0  0.00   60.  999.    2 NAD-SFC NoSubs
 8  8  5 218 21  -48.1  0.468 -9.000 -9.000 -999.  767.   189.4  0.2160  0.52  1.00  5.10 276.0  15.0 299.5  2.0    0  0.00   69.  999.    2 NAD-SFC NoSubs
 8  8  5 218 22  -43.6  0.420 -9.000 -9.000 -999.  655.   151.5  0.2160  0.52  1.00  4.60 276.0  15.0 297.2  2.0    0  0.00   69. 1000.    2 NAD-SFC NoSubs
 8  8  5 218 23  -38.8  0.373 -9.000 -9.000 -999.  548.   118.8  0.2160  0.52  1.00  4.10 294.0  15.0 296.2  2.0    0  0.00   71. 1000.    2 NAD-SFC NoSubs
 8  8  5 218 24  -29.0  0.278 -9.000 -9.000 -999.  357.    66.1  0.2160  0.52  1.00  3.10 298.0  15.0 295.8  2.0    0  0.00   72. 1000.    2 NAD-SFC NoSubs
 8  8  6 219  1  -25.3  0.252 -9.000 -9.000 -999.  304.    56.4  0.2930  0.52  1.00  2.60 331.0  15.0 295.5  2.0    0  0.00   71. 1001.    3 NAD-SFC NoSubs
 8  8  6 219  2  -25.3  0.252 -9.000 -9.000 -999.  303.    56.4  0.2930  0.52  1.00  2.60 342.0  15.0 295.2  2.0    0  0.00   71. 1001.    3 NAD-SFC NoSubs
 8  8  6 219  3  -25.3  0.252 -9.000 -9.000 -999.  303.    56.3  0.2930  0.52  1.00  2.60 331.0  15.0 295.0  2.0    0  0.00   71. 1002.    3 NAD-SFC NoSubs
 8  8  6 219  4  -25.7  0.252 -9.000 -9.000 -999.  303.    55.5  0.2930  0.52  1.00  2.60 331.0  15.0 294.6  2.0    0  0.00   73. 1002.    2 NAD-SFC NoSubs
 8  8  6 219  5  -16.5  0.200 -9.000 -9.000 -999.  215.    43.3  0.2930  0.52  1.00  2.10 348.0  15.0 294.1  2.0    0  0.00   76. 1002.    2 NAD-SFC NoSubs
 8  8  6 219  6   -7.7  0.140 -9.000 -9.000 -999.  127.    31.8  0.2940  0.52  0.62  1.50   1.0  15.0 293.6  2.0    0  0.00   80. 1003.    2 NAD-SFC NoSubs
 8  8  6 219  7   23.1  0.246  0.487  0.010  178.  293.    -57.9 0.2930  0.52  0.32  2.10 357.0  15.0 294.2  2.0    0  0.00   74. 1003.    2 NAD-SFC NoSubs
 8  8  6 219  8   70.5  0.108  0.833  0.010  293.  100.    -1.6  0.2930  0.52  0.23  0.50 350.0  15.0 295.9  2.0    0  0.00   68. 1003.    2 NAD-SFC NoSubs
 8  8  6 219  9  112.9 -9.000 -9.000 -9.000  408. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 298.1  2.0    0  0.00   60. 1002.    2 NAD-SFC NoSubs
 8  8  6 219 10  146.7 -9.000 -9.000 -9.000  544. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 299.9  2.0    0  0.00   56. 1002.    2 NAD-SFC NoSubs
 8  8  6 219 11  170.7 -9.000 -9.000 -9.000  671. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 302.0  2.0    0  0.00   50. 1001.    2 NAD-SFC NoSubs
 8  8  6 219 12  183.2 -9.000 -9.000 -9.000  791. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 303.8  2.0    0  0.00   44. 1000.    2 NAD-SFC NoSubs
 8  8  6 219 13  184.7  0.121  1.668  0.010  897.  101.    -1.0  0.2720  0.52  0.19  0.50 316.0  15.0 305.2  2.0    0  0.00   39.  999.    2 NAD-SFC NoSubs
 8  8  6 219 14  174.8  0.181  1.690  0.010  985.  185.    -3.0  0.2720  0.52  0.19  1.00 327.0  15.0 306.2  2.0    0  0.00   37.  999.    2 NAD-SFC NoSubs
 8  8  6 219 15  153.4  0.233  1.655  0.009 1053.  271.    -7.4  0.2930  0.52  0.19  1.50 354.0  15.0 306.8  2.0    0  0.00   35.  998.    2 NAD-SFC NoSubs
 8  8  6 219 16  121.6  0.332  1.555  0.009 1103.  458.   -26.7  0.2930  0.52  0.20  2.60 356.0  15.0 307.0  2.0    0  0.00   36.  998.    2 NAD-SFC NoSubs
 8  8  6 219 17   80.6 -9.000 -9.000 -9.000 1135. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 306.4  2.0    0  0.00   45.  997.    2 NAD-SFC NoSubs
 8  8  6 219 18   33.7  0.346  1.027  0.009 1146.  488.  -109.2  0.2940  0.52  0.30  3.10  11.0  15.0 305.6  2.0    0  0.00   52.  997.    2 NAD-SFC NoSubs
 8  8  6 219 19   -6.9 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  0.56  0.00   0.0  15.0 304.5  2.0    0  0.00   54.  998.    2 NAD-SFC NoSubs
 8  8  6 219 20  -47.5  0.468 -9.000 -9.000 -999.  768.   191.6  0.2160  0.52  1.00  5.10 286.0  15.0 302.9  2.0    0  0.00   58.  998.    2 NAD-SFC NoSubs
 8  8  6 219 21  -51.4  0.497 -9.000 -9.000 -999.  841.   213.3  0.1750  0.52  1.00  5.70 268.0  15.0 298.2  2.0    0  0.00   69.  999.    2 NAD-SFC NoSubs
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8	8	6	219	22	-43.7	0.420	-9.000	-9.000	-999.	658.	151.2	0.2160	0.52	1.00	4.60	271.0	15.0	296.5	2.0	0	0.00	69.	1000.	2	NAD-SFC	NoSubs
8	8	6	219	23	-33.9	0.325	-9.000	-9.000	-999.	451.	90.4	0.2160	0.52	1.00	3.60	276.0	15.0	295.6	2.0	0	0.00	71.	1000.	2	NAD-SFC	NoSubs
8	8	6	219	24	-28.4	0.278	-9.000	-9.000	-999.	353.	67.8	0.2160	0.52	1.00	3.10	296.0	15.0	295.0	2.0	0	0.00	71.	1000.	3	NAD-SFC	NoSubs
8	8	7	220	1	-15.6	0.196	-9.000	-9.000	-999.	210.	42.7	0.2720	0.52	1.00	2.10	317.0	15.0	294.6	2.0	0	0.00	71.	1000.	3	NAD-SFC	NoSubs
8	8	7	220	2	-25.3	0.252	-9.000	-9.000	-999.	303.	56.3	0.2930	0.52	1.00	2.60	330.0	15.0	294.4	2.0	0	0.00	71.	1001.	3	NAD-SFC	NoSubs
8	8	7	220	3	-24.4	0.246	-9.000	-9.000	-999.	293.	54.6	0.2720	0.52	1.00	2.60	327.0	15.0	294.2	2.0	0	0.00	72.	1001.	3	NAD-SFC	NoSubs
8	8	7	220	4	-16.3	0.200	-9.000	-9.000	-999.	215.	43.9	0.2930	0.52	1.00	2.10	334.0	15.0	293.9	2.0	0	0.00	74.	1001.	3	NAD-SFC	NoSubs
8	8	7	220	5	-16.5	0.200	-9.000	-9.000	-999.	214.	43.2	0.2930	0.52	1.00	2.10	342.0	15.0	293.5	2.0	0	0.00	77.	1001.	2	NAD-SFC	NoSubs
8	8	7	220	6	-7.8	0.140	-9.000	-9.000	-999.	126.	31.5	0.2930	0.52	0.62	1.50	347.0	15.0	293.1	2.0	0	0.00	79.	1001.	2	NAD-SFC	NoSubs
8	8	7	220	7	22.4	0.246	0.507	0.010	208.	292.	-59.2	0.2930	0.52	0.32	2.10	356.0	15.0	293.8	2.0	0	0.00	75.	1001.	2	NAD-SFC	NoSubs
8	8	7	220	8	69.8	0.107	0.845	0.010	308.	99.	-1.6	0.2930	0.52	0.23	0.50	349.0	15.0	295.4	2.0	0	0.00	68.	1001.	2	NAD-SFC	NoSubs
8	8	7	220	9	112.1	-9.000	-9.000	-9.000	426.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	297.2	2.0	0	0.00	61.	1001.	2	NAD-SFC	NoSubs
8	8	7	220	10	146.0	-9.000	-9.000	-9.000	554.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.1	2.0	0	0.00	57.	1000.	2	NAD-SFC	NoSubs
8	8	7	220	11	169.9	-9.000	-9.000	-9.000	677.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.1	2.0	0	0.00	52.	999.	2	NAD-SFC	NoSubs
8	8	7	220	12	182.4	-9.000	-9.000	-9.000	803.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.8	2.0	0	0.00	47.	999.	2	NAD-SFC	NoSubs
8	8	7	220	13	183.7	0.121	1.677	0.012	915.	101.	-1.0	0.2720	0.52	0.19	0.50	318.0	15.0	304.1	2.0	0	0.00	43.	998.	2	NAD-SFC	NoSubs
8	8	7	220	14	173.8	0.237	1.694	0.012	997.	278.	-6.8	0.2930	0.52	0.19	1.50	345.0	15.0	305.1	2.0	0	0.00	41.	998.	2	NAD-SFC	NoSubs
8	8	7	220	15	152.3	0.292	1.650	0.011	1050.	378.	-14.5	0.2930	0.52	0.19	2.10	351.0	15.0	305.8	2.0	0	0.00	39.	997.	2	NAD-SFC	NoSubs
8	8	7	220	16	120.7	0.332	1.546	0.011	1091.	458.	-26.9	0.2940	0.52	0.20	2.60	2.0	15.0	306.4	2.0	0	0.00	38.	997.	2	NAD-SFC	NoSubs
8	8	7	220	17	79.8	0.320	1.357	0.011	1116.	434.	-36.5	0.2940	0.52	0.22	2.60	11.0	15.0	306.0	2.0	0	0.00	47.	997.	2	NAD-SFC	NoSubs
8	8	7	220	18	34.2	0.346	1.027	0.011	1126.	488.	-107.4	0.2930	0.52	0.31	3.10	338.0	15.0	305.8	2.0	0	0.00	50.	997.	3	NAD-SFC	NoSubs
8	8	7	220	19	-30.0	0.472	-9.000	-9.000	-999.	779.	312.4	0.2160	0.52	0.57	5.10	288.0	15.0	303.0	2.0	0	0.00	56.	998.	3	NAD-SFC	NoSubs
8	8	7	220	20	-47.0	0.468	-9.000	-9.000	-999.	768.	193.8	0.2160	0.52	1.00	5.10	270.0	15.0	298.5	2.0	0	0.00	64.	998.	3	NAD-SFC	NoSubs
8	8	7	220	21	-50.4	0.498	-9.000	-9.000	-999.	842.	217.6	0.1750	0.52	1.00	5.70	267.0	15.0	296.2	2.0	0	0.00	66.	998.	3	NAD-SFC	NoSubs
8	8	7	220	22	-47.7	0.468	-9.000	-9.000	-999.	769.	191.3	0.2160	0.52	1.00	5.10	281.0	15.0	294.8	2.0	0	0.00	67.	999.	3	NAD-SFC	NoSubs
8	8	7	220	23	-33.2	0.325	-9.000	-9.000	-999.	461.	92.4	0.2160	0.52	1.00	3.60	288.0	15.0	294.0	2.0	0	0.00	68.	999.	3	NAD-SFC	NoSubs
8	8	7	220	24	-15.7	0.196	-9.000	-9.000	-999.	220.	42.6	0.2720	0.52	1.00	2.10	318.0	15.0	293.6	2.0	0	0.00	69.	1000.	3	NAD-SFC	NoSubs
8	8	8	221	1	-24.4	0.246	-9.000	-9.000	-999.	293.	54.5	0.2720	0.52	1.00	2.60	327.0	15.0	293.2	2.0	0	0.00	69.	1000.	3	NAD-SFC	NoSubs
8	8	8	221	2	-24.5	0.246	-9.000	-9.000	-999.	293.	54.4	0.2720	0.52	1.00	2.60	322.0	15.0	292.8	2.0	0	0.00	71.	1001.	3	NAD-SFC	NoSubs
8	8	8	221	3	-24.5	0.246	-9.000	-9.000	-999.	293.	54.4	0.2720	0.52	1.00	2.60	315.0	15.0	292.2	2.0	0	0.00	72.	1001.	3	NAD-SFC	NoSubs
8	8	8	221	4	-24.5	0.246	-9.000	-9.000	-999.	293.	54.4	0.2720	0.52	1.00	2.60	311.0	15.0	292.0	2.0	0	0.00	72.	1001.	3	NAD-SFC	NoSubs
8	8	8	221	5	-24.5	0.246	-9.000	-9.000	-999.	293.	54.3	0.2720	0.52	1.00	2.60	318.0	15.0	291.8	2.0	0	0.00	74.	1002.	3	NAD-SFC	NoSubs
8	8	8	221	6	-15.5	0.201	-9.000	-9.000	-999.	217.	46.8	0.2930	0.52	0.63	2.10	334.0	15.0	291.5	2.0	0	0.00	76.	1002.	3	NAD-SFC	NoSubs
8	8	8	221	7	22.6	0.191	0.529	0.011	232.	200.	-27.4	0.2940	0.52	0.32	1.50	3.0	15.0	292.1	2.0	0	0.00	73.	1002.	3	NAD-SFC	NoSubs
8	8	8	221	8	69.6	0.107	0.870	0.010	338.	87.	-1.6	0.2930	0.52	0.23	0.50	344.0	15.0	293.6	2.0	0	0.00	67.	1002.	3	NAD-SFC	NoSubs
8	8	8	221	9	111.4	-9.000	-9.000	-9.000	452.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	295.2	2.0	0	0.00	62.	1002.	3	NAD-SFC	NoSubs
8	8	8	221	10	144.9	-9.000	-9.000	-9.000	562.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.0	2.0	0	0.00	58.	1002.	3	NAD-SFC	NoSubs
8	8	8	221	11	168.4	0.121	1.467	0.010	670.	101.	-1.0	0.2930	0.52	0.19	0.50	333.0	15.0	298.6	2.0	0	0.00	55.	1001.	2	NAD-SFC	NoSubs
8	8	8	221	12	180.8	0.185	1.582	0.010	784.	190.	-3.1	0.2930	0.52	0.19	1.00	340.0	15.0	300.0	2.0	0	0.00	53.	1001.	2	NAD-SFC	NoSubs
8	8	8	221	13	181.9	0.239	1.652	0.010	885.	280.	-6.7	0.2930	0.52	0.19	1.50	343.0	15.0	301.2	2.0	0	0.00	50.	1000.	2	NAD-SFC	NoSubs
8	8	8	221	14	172.0	0.295	1.673	0.011	972.	385.	-13.4	0.2930	0.52	0.19	2.10	351.0	15.0	302.4	2.0	0	0.00	48.	999.	2	NAD-SFC	NoSubs
8	8	8	221	15	150.4	0.384	1.635	0.011	1035.	572.	-33.6	0.2930	0.52	0.19	3.10	355.0	15.0	302.9	2.0	0	0.00	47.	998.	2	NAD-SFC	NoSubs
8	8	8	221	16	118.3	0.378	1.531	0.011	1082.	557.	-40.5	0.2940	0.52	0.20	3.10	4.0	15.0	303.0	2.0	0	0.00	48.	998.	2	NAD-SFC	NoSubs
8	8	8	221	17	77.4	-9.000	-9.000	-9.000	1111.	-999.	-99999.0	0.2235	0.52	0.23	0.00	0.0	15.0	302.8	2.0	0	0.00	54.	998.	2	NAD-SFC	NoSubs
8	8	8	221	18	30.6	-9.000	-9.000	-9.000	1122.	-999.	-99999.0	0.2235	0.52	0.31	0.00	0.0	15.0	302.4	2.0	0	0.00	59.	998.	2	NAD-SFC	NoSubs
8	8	8	221	19	-22.8	0.305	-9.000	-9.000	-999.	405.	111.5	0.2930	0.52	0.58	3.10	353.0	15.0	301.4	2.0	0	0.00	60.	999.	2	NAD-SFC	NoSubs
8	8	8	221	20	-40.8	0.397	-9.000	-9.000	-999.	601.	136.9	0.2720	0.52	1.00	4.10	317.0	15.0	300.1	2.0	0	0.00	62.	999.	2	NAD-SFC	NoSubs
8	8	8	221	21	-42.5	0.420	-9.000	-9.000	-999.	653.	155.7	0.2160	0.52	1.00	4.60	279.0	15.0	297.2	2.0	0	0.00	67.	1000.	3	NAD-SFC	NoSubs
8	8	8	221	22	-38.0	0.373	-9.000	-9.000	-999.	548.	121.5	0.2160	0.52	1.00	4.10	282.0	15.0	294.9	2.0	0	0.00	66.	1001.	3	NAD-SFC	NoSubs
8	8	8	221	23	-28.5	0.278	-9.000	-9.000	-999.	357.	67.4	0.2160	0.52	1.00	3.10	294.0	15.0	293.8	2.0	0	0.00	69.	1001.	3	NAD-SFC	NoSubs
8	8	8	221	24	-24.5	0.246	-9.000	-9.000	-999.	294.	54.5	0.2720	0.52	1.00	2.60	308.0	15.0	293.4	2.0	0	0.00	70.	1002.	3	NAD-SFC	NoSubs
8	8	9	222	1	-31.2	0.303	-9.000	-9.000	-999.	401.	79.9	0.2930	0.52	1.00	3.10	345.0	15.0	293.0	2.0	0	0.00	73.	1002.	3	NAD-SFC	NoSubs
8	8	9	222	2	-31.2	0.303	-9.000	-9.000	-999.	401.	79.8	0.2930	0.52	1.00	3.10	352.0	15.0	292.4	2.0	0	0.00	77.	1002.	3	NAD-SFC	NoSubs
8	8	9	222	3	-25.5	0.252	-9.000	-9.000	-999.	304.	56.0	0.2930	0.52	1.00	2.60	357.0	15.0	291.8	2.0	0	0.00	80.	1002.	3	NAD-SFC	NoSubs
8	8	9	222	4	-16.4	0.200	-9.000	-9.000	-999.	215.	43.7	0.2930	0.52	1.00	2.10	353.0	15.0	291.1	2.0	0	0.00	83.	1003.	3	NAD-SFC	NoSubs
8	8	9	222	5	-16.4	0.200	-9.000	-9.000	-999.	215.	43.6	0.2930	0.52	1.00	2.10	350.0	15.0	290.5	2.0	0	0.00	84.	1003.	3	NAD-SFC	NoSubs
8	8	9	222	6	-7.8	0.140	-9.000	-9.000	-999.	126.	31.4	0.2930	0.52	0.63	1.50	348.0	15.0	290.0	2.0	0	0.00	86.	1003.	3	NAD-SFC	NoSubs
8	8	9	222	7	21.6	0.245	0.500	0.010	206.	292.	-61.1	0.2940	0.52	0.33	2.10	2.0	15.0	290.4	2.0	0	0.00	78.	1004.	3	NAD-SFC	NoSubs
8	8	9	222	8	68.7	0.107	0.817	0.010	284.	99.	-1.6	0.2930	0.52	0.23	0.50	345.0	15.0	292.2	2.0	0	0.00	69.	1004.	3	NAD-SFC	NoSubs
8	8	9	222	9	110.5	-9.000	-9.000	-9.000	378.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	293.9	2.0	0	0.00	63.	1003.	3	NAD-SFC	NoSubs
8	8	9	222	10	143.9	-9.000	-9.000	-9.000	519.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.9	2.0	0	0.00	56.	1003.	2	NAD-SFC	NoSubs
8	8	9	222	11	167.6	-9.000	-9.000	-9.000	652.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.6	2.0	0	0.00	52.	1003.	2	NAD-SFC	NoSubs
8	8	9	222	12	180.0	-9.000	-9.000	-9.000	790.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.2	2.0	0	0.00	49.	1002.	2	NAD-SFC	NoSubs
8	8	9	222	13	181.3	0.120	1.665	0.010	910.	100.	-1.0	0.2720	0.52	0.19	0.50	324.0	15.0	300.8	2.0	0	0.00	46.	1001.	2	NAD-SFC	NoSubs
8	8	9	222	14	171.2	0.183	1.687	0.010	1004.	188.	-3.2	0.2930	0.52	0.19	1.00	340.0	15.0	301.8	2.0	0	0.00	43.	1001.	2	NAD-SFC	NoSubs
8	8	9	222	15	149.6	0.233	1.649	0.010	1071.	269.	-7.5	0.2930	0.52	0.19	1.50	348.0	15.0	302.4	2.0	0	0.00	41.	1000.	2	NAD-SFC	NoSubs
8	8	9	222	16	117.5	0.331	1.545	0.010	1120.	456.	-27.4	0.2940	0.52	0.20	2.60	13.0	15.0	302.6	2.0	0	0.00	40.	1000.	2	NAD-SFC	NoSubs
8	8	9	222	17	76.4	0.319	1.350	0.011	1150.	432.	-37.7	0.2940	0.52	0.23	2.60	22.0	15.0	302.2	2.0	0	0.00	47.	1000.	2	NAD-SFC	NoSubs
8	8	9	222	18	29.4	0.343	0.984	0.011	1159.	482.	-122.9	0.2940	0.52	0.31	3.10	21.0	15.0	301.4	2.0	0	0.00	54.	1001.	2	NAD-SFC	NoSubs
8	8	9	222	19	-28.1	0.357	-9.000	-9.000	-999.	511.	144.6	0.2940	0.52	0.58	3.60	14.0	15.0	300.2	2.0	0	0.00	55.	1001.	2	NAD-SFC	NoSubs
8	8	9	222	20	-36.7	0.355	-9.000	-9.000	-999.	507.	108.6	0.2930	0.52	1.00	3.60	343.0	15.0	298.9	2.0	0	0.00	56.	1002.	2	NAD-SFC	NoSubs
8	8	9	222	21	-41.3	0.397	-9.000	-9.000	-999.	600.	135.3	0.2720	0.52	1.00	4.10	318.0	15.0	296.9	2.0	0	0.00	62.	1002.	2	NAD-SFC	NoSubs
8	8	9	222	22	-36.3	0.347	-9.000	-9.000	-999.	492.	102.6	0.2720	0.52	1.00	3.60	311.0	15.0	295.2	2.0	0	0.00	71.	1003.	2	NAD-SFC	NoSubs
8	8	9	222	23	-31.2	0.296	-9.000	-9.000	-999.	389.	74.8	0.2720	0.52	1.00	3.10	301.0	15.0	294.2	2.0	0	0.00	76.	1003.	2	NAD-SFC	NoSubs
8	8	9	222	24	-31.3	0.296	-9.000	-9.000	-999.	387.	74.6	0.2720	0.52	1.00	3.10	308.0	15.0	293.4	2.0	0	0.00	81.	1003.	2	NAD-SFC	NoSubs
8	8	10	223	1	-32.0	0.303	-9.000	-9.000	-999.	400.	77.7	0.2930	0.52	1.00	3.10	334.0	15.0	292.8	2.0	0	0.00	84.	1003.	2	NAD-SFC	NoSubs
8	8	10	223	2	-25.8	0.252	-9.000	-9.000	-999.	304.	55.2	0.2930	0.52	1.00	2.60	348.0	15.0	292.0	2.0	0	0.00	87.	1003.	2	NAD-SFC	NoSubs

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 8  8 10 223  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 291.2  2.0   0  0.00  89. 1004.   2 NAD-SFC NoSubs
 8  8 10 223  4  -16.6  0.200 -9.000 -9.000 -999.  215.     43.0 0.2940  0.52  1.00  2.10  11.0  15.0 290.6  2.0   0  0.00  90. 1004.   2 NAD-SFC NoSubs
 8  8 10 223  5   -8.3  0.140 -9.000 -9.000 -999.  126.     29.5 0.2940  0.52  1.00  1.50  13.0  15.0 290.1  2.0   0  0.00  92. 1004.   2 NAD-SFC NoSubs
 8  8 10 223  6    5.8 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  0.64  0.00   0.0  15.0 289.8  2.0   0  0.00  93. 1005.   2 NAD-SFC NoSubs
 8  8 10 223  7   19.9 -9.000 -9.000 -9.000  145. -999. -99999.0 0.2235  0.52  0.33  0.00   0.0  15.0 290.6  2.0   0  0.00  83. 1005.   2 NAD-SFC NoSubs
 8  8 10 223  8   67.5  0.107  0.790  0.008  262.   84.     -1.6 0.2930  0.52  0.23  0.50 342.0  15.0 292.5  2.0   0  0.00  75. 1005.   2 NAD-SFC NoSubs
 8  8 10 223  9  109.9 -9.000 -9.000 -9.000  389. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 294.5  2.0   0  0.00  67. 1004.   2 NAD-SFC NoSubs
 8  8 10 223 10  143.7 -9.000 -9.000 -9.000  571. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 296.2  2.0   0  0.00  60. 1004.   2 NAD-SFC NoSubs
 8  8 10 223 11  167.5 -9.000 -9.000 -9.000  721. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 298.1  2.0   0  0.00  54. 1003.   2 NAD-SFC NoSubs
 8  8 10 223 12  179.9  0.114  1.619  0.011  844.   93.     -1.0 0.2160  0.52  0.19  0.50 286.0  15.0 299.8  2.0   0  0.00  49. 1002.   2 NAD-SFC NoSubs
 8  8 10 223 13  181.1 -9.000 -9.000 -9.000  954. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 301.2  2.0   0  0.00  43. 1001.   2 NAD-SFC NoSubs
 8  8 10 223 14  170.9  0.119  1.698  0.012 1023.   99.     -1.0 0.2720  0.52  0.19  0.50 324.0  15.0 302.1  2.0   0  0.00  39. 1000.   2 NAD-SFC NoSubs
 8  8 10 223 15  149.3  0.180  1.651  0.012 1075.  184.     -3.5 0.2930  0.52  0.19  1.00 349.0  15.0 302.8  2.0   0  0.00  38.  999.   2 NAD-SFC NoSubs
 8  8 10 223 16  117.1  0.285  1.541  0.012 1114.  364.    -17.5 0.2940  0.52  0.20  2.10   6.0  15.0 302.9  2.0   0  0.00  37.  998.   2 NAD-SFC NoSubs
 8  8 10 223 17   76.0  0.319  1.344  0.012 1138.  432.    -38.0 0.2940  0.52  0.23  2.60  18.0  15.0 302.6  2.0   0  0.00  43.  998.   2 NAD-SFC NoSubs
 8  8 10 223 18   28.9  0.343  0.976  0.011 1146.  482.   -124.3 0.2940  0.52  0.31  3.10  19.0  15.0 302.0  2.0   0  0.00  50.  999.   2 NAD-SFC NoSubs
 8  8 10 223 19  -28.6  0.357 -9.000 -9.000 -999.  511.    141.4 0.2940  0.52  0.59  3.60  16.0  15.0 300.9  2.0   0  0.00  52.  999.   2 NAD-SFC NoSubs
 8  8 10 223 20  -25.1  0.252 -9.000 -9.000 -999.  310.     56.9 0.2940  0.52  1.00  2.60  19.0  15.0 299.8  2.0   0  0.00  55.  999.   3 NAD-SFC NoSubs
 8  8 10 223 21   -1.5  0.082 -9.000 -9.000 -999.   94.     31.4 0.2720  0.52  1.00  0.50 321.0  15.0 298.4  2.0   0  0.00  59. 1000.   3 NAD-SFC NoSubs
 8  8 10 223 22  -20.0  0.218 -9.000 -9.000 -999.  245.     46.5 0.1750  0.52  1.00  2.60 258.0  15.0 297.1  2.0   0  0.00  65. 1000.   3 NAD-SFC NoSubs
 8  8 10 223 23  -26.8  0.264 -9.000 -9.000 -999.  325.     60.9 0.1750  0.52  1.00  3.10 266.0  15.0 295.8  2.0   0  0.00  70. 1000.   3 NAD-SFC NoSubs
 8  8 10 223 24  -21.9  0.231 -9.000 -9.000 -999.  266.     50.0 0.2160  0.52  1.00  2.60 273.0  15.0 294.8  2.0   0  0.00  73. 1000.   3 NAD-SFC NoSubs
 8  8 11 224  1  -12.9  0.173 -9.000 -9.000 -999.  174.     36.1 0.1750  0.52  1.00  2.10 263.0  15.0 294.2  2.0   0  0.00  75. 1000.   3 NAD-SFC NoSubs
 8  8 11 224  2   -7.1  0.129 -9.000 -9.000 -999.  111.     26.9 0.2160  0.52  1.00  1.50 278.0  15.0 293.8  2.0   0  0.00  76. 1000.   3 NAD-SFC NoSubs
 8  8 11 224  3   -7.9  0.137 -9.000 -9.000 -999.  122.     28.8 0.2720  0.52  1.00  1.50 307.0  15.0 293.2  2.0   0  0.00  79. 1001.   2 NAD-SFC NoSubs
 8  8 11 224  4   -8.0  0.137 -9.000 -9.000 -999.  122.     28.8 0.2720  0.52  1.00  1.50 319.0  15.0 292.8  2.0   0  0.00  82. 1001.   2 NAD-SFC NoSubs
 8  8 11 224  5   -8.0  0.137 -9.000 -9.000 -999.  122.     28.7 0.2720  0.52  1.00  1.50 327.0  15.0 292.1  2.0   0  0.00  85. 1001.   2 NAD-SFC NoSubs
 8  8 11 224  6   -7.7  0.137 -9.000 -9.000 -999.  121.     29.8 0.2720  0.52  0.65  1.50 326.0  15.0 291.8  2.0   0  0.00  87. 1002.   2 NAD-SFC NoSubs
 8  8 11 224  7   20.0  0.244  0.400  0.006  114.  289.    -64.6 0.2930  0.52  0.33  2.10 359.0  15.0 292.8  2.0   0  0.00  80. 1002.   2 NAD-SFC NoSubs
 8  8 11 224  8   67.6 -9.000 -9.000 -9.000  246. -999. -99999.0 0.2235  0.52  0.23  0.00   0.0  15.0 294.2  2.0   0  0.00  73. 1002.   2 NAD-SFC NoSubs
 8  8 11 224  9  110.1 -9.000 -9.000 -9.000  413. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 296.4  2.0   0  0.00  64. 1002.   2 NAD-SFC NoSubs
 8  8 11 224 10  144.0 -9.000 -9.000 -9.000  653. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 298.1  2.0   0  0.00  58. 1001.   2 NAD-SFC NoSubs
 8  8 11 224 11  167.8 -9.000 -9.000 -9.000  862. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 299.8  2.0   0  0.00  53. 1001.   2 NAD-SFC NoSubs
 8  8 11 224 12  180.2 -9.000 -9.000 -9.000 1000. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 301.2  2.0   0  0.00  48.  999.   2 NAD-SFC NoSubs
 8  8 11 224 13  181.4 -9.000 -9.000 -9.000 1066. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 302.6  2.0   0  0.00  43.  998.   2 NAD-SFC NoSubs
 8  8 11 224 14  171.2  0.120  1.755  0.014 1125.   99.     -1.0 0.2720  0.52  0.19  0.50 319.0  15.0 303.6  2.0   0  0.00  40.  997.   2 NAD-SFC NoSubs
 8  8 11 224 15  149.5  0.119  1.701  0.014 1173.   99.     -1.0 0.2930  0.52  0.19  0.50 346.0  15.0 304.2  2.0   0  0.00  38.  997.   2 NAD-SFC NoSubs
 8  8 11 224 16  117.3 -9.000 -9.000 -9.000 1210. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 304.5  2.0   0  0.00  37.  996.   2 NAD-SFC NoSubs
 8  8 11 224 17   76.2  0.216  1.382  0.014 1233.  241.    -11.8 0.2940  0.52  0.23  1.50  18.0  15.0 304.4  2.0   0  0.00  39.  996.   2 NAD-SFC NoSubs
 8  8 11 224 18   29.1  0.242  1.005  0.014 1241.  285.    -43.1 0.2470  0.52  0.32  2.10  32.0  15.0 303.9  2.0   0  0.00  45.  996.   2 NAD-SFC NoSubs
 8  8 11 224 19  -14.6  0.202 -9.000 -9.000 -999.  219.     50.4 0.2940  0.52  0.60  2.10  26.0  15.0 302.6  2.0   0  0.00  49.  996.   2 NAD-SFC NoSubs
 8  8 11 224 20   -1.6  0.082 -9.000 -9.000 -999.   67.     31.5 0.2720  0.52  1.00  0.50 319.0  15.0 301.2  2.0   0  0.00  54.  997.   2 NAD-SFC NoSubs
 8  8 11 224 21  -43.2  0.420 -9.000 -9.000 -999.  653.    152.5 0.2160  0.52  1.00  4.60 285.0  15.0 299.0  2.0   0  0.00  63.  997.   2 NAD-SFC NoSubs
 8  8 11 224 22  -38.7  0.373 -9.000 -9.000 -999.  548.    118.8 0.2160  0.52  1.00  4.10 282.0  15.0 296.0  2.0   0  0.00  76.  998.   2 NAD-SFC NoSubs
 8  8 11 224 23  -29.0  0.278 -9.000 -9.000 -999.  357.     65.9 0.2160  0.52  1.00  3.10 291.0  15.0 294.9  2.0   0  0.00  77.  998.   2 NAD-SFC NoSubs
 8  8 11 224 24  -24.6  0.246 -9.000 -9.000 -999.  293.     53.8 0.2720  0.52  1.00  2.60 312.0  15.0 294.2  2.0   0  0.00  77.  998.   2 NAD-SFC NoSubs
 8  8 12 225  1  -16.4  0.200 -9.000 -9.000 -999.  215.     43.2 0.2930  0.52  1.00  2.10 352.0  15.0 293.5  2.0   0  0.00  78.  998.   2 NAD-SFC NoSubs
 8  8 12 225  2  -16.5  0.200 -9.000 -9.000 -999.  215.     43.2 0.2940  0.52  1.00  2.10  25.0  15.0 293.0  2.0   0  0.00  80.  998.   2 NAD-SFC NoSubs
 8  8 12 225  3   -8.2  0.140 -9.000 -9.000 -999.  126.     29.6 0.2940  0.52  1.00  1.50  13.0  15.0 292.5  2.0   0  0.00  81.  998.   2 NAD-SFC NoSubs
 8  8 12 225  4   -4.0  0.102 -9.000 -9.000 -999.   78.     23.6 0.2930  0.52  1.00  1.00 345.0  15.0 292.1  2.0   0  0.00  81.  998.   2 NAD-SFC NoSubs
 8  8 12 225  5   -1.6  0.083 -9.000 -9.000 -999.   58.     31.9 0.2720  0.52  1.00  0.50 309.0  15.0 291.8  2.0   0  0.00  82.  998.   2 NAD-SFC NoSubs
 8  8 12 225  6   -1.5  0.081 -9.000 -9.000 -999.   55.     31.2 0.2720  0.52  0.65  0.50 303.0  15.0 291.5  2.0   0  0.00  82.  999.   2 NAD-SFC NoSubs
 8  8 12 225  7   19.6  0.185  0.373  0.010   94.  191.    -28.9 0.2720  0.52  0.33  1.50 306.0  15.0 293.0  2.0   0  0.00  75.  999.   2 NAD-SFC NoSubs
 8  8 12 225  8   67.2 -9.000 -9.000 -9.000  186. -999. -99999.0 0.2235  0.52  0.23  0.00   0.0  15.0 294.8  2.0   0  0.00  71.  999.   2 NAD-SFC NoSubs
 8  8 12 225  9  110.0 -9.000 -9.000 -9.000  312. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 297.1  2.0   0  0.00  64.  999.   2 NAD-SFC NoSubs
 8  8 12 225 10  144.0 -9.000 -9.000 -9.000  479. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 298.9  2.0   0  0.00  59.  998.   2 NAD-SFC NoSubs
 8  8 12 225 11  167.8 -9.000 -9.000 -9.000  679. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 300.8  2.0   0  0.00  53.  998.   2 NAD-SFC NoSubs
 8  8 12 225 12  180.4 -9.000 -9.000 -9.000  808. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 302.4  2.0   0  0.00  48.  997.   2 NAD-SFC NoSubs
 8  8 12 225 13  181.5 -9.000 -9.000 -9.000  921. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 303.8  2.0   0  0.00  43.  996.   2 NAD-SFC NoSubs
 8  8 12 225 14  171.5 -9.000 -9.000 -9.000 1009. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 305.0  2.0   0  0.00  39.  995.   2 NAD-SFC NoSubs
 8  8 12 225 15  149.8 -9.000 -9.000 -9.000 1074. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 305.8  2.0   0  0.00  36.  994.   2 NAD-SFC NoSubs
 8  8 12 225 16  117.7 -9.000 -9.000 -9.000 1123. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 306.4  2.0   0  0.00  36.  994.   2 NAD-SFC NoSubs
 8  8 12 225 17   76.4  0.216  1.354  0.011 1152.  241.    -11.7 0.2940  0.52  0.23  1.50  18.0  15.0 306.1  2.0   0  0.00  42.  993.   2 NAD-SFC NoSubs
 8  8 12 225 18   29.2  0.297  0.986  0.011 1162.  388.    -79.3 0.2940  0.52  0.32  2.60  24.0  15.0 305.6  2.0   0  0.00  47.  994.   2 NAD-SFC NoSubs
 8  8 12 225 19  -14.6  0.202 -9.000 -9.000 -999.  222.     50.2 0.2940  0.52  0.61  2.10   8.0  15.0 304.2  2.0   0  0.00  51.  994.   2 NAD-SFC NoSubs
 8  8 12 225 20  -21.5  0.231 -9.000 -9.000 -999.  266.     50.8 0.2160  0.52  1.00  2.60 287.0  15.0 303.0  2.0   0  0.00  55.  995.   3 NAD-SFC NoSubs
 8  8 12 225 21  -47.9  0.468 -9.000 -9.000 -999.  768.    189.3 0.2160  0.52  1.00  5.10 283.0  15.0 299.4  2.0   0  0.00  69.  995.   2 NAD-SFC NoSubs
 8  8 12 225 22  -38.5  0.373 -9.000 -9.000 -999.  553.    119.2 0.2160  0.52  1.00  4.10 280.0  15.0 297.1  2.0   0  0.00  75.  996.   2 NAD-SFC NoSubs
 8  8 12 225 23  -33.8  0.325 -9.000 -9.000 -999.  447.     90.6 0.2160  0.52  1.00  3.60 279.0  15.0 296.1  2.0   0  0.00  76.  996.   2 NAD-SFC NoSubs
 8  8 12 225 24  -15.7  0.195 -9.000 -9.000 -999.  218.     42.1 0.2720  0.52  1.00  2.10 313.0  15.0 295.5  2.0   0  0.00  76.  996.   2 NAD-SFC NoSubs
 8  8 13 226  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 294.9  2.0   0  0.00  77.  996.   2 NAD-SFC NoSubs
 8  8 13 226  2  -25.6  0.252 -9.000 -9.000 -999.  303.     55.5 0.2940  0.52  1.00  2.60  25.0  15.0 294.2  2.0   0  0.00  79.  996.   2 NAD-SFC NoSubs
 8  8 13 226  3  -25.6  0.252 -9.000 -9.000 -999.  303.     55.5 0.2940  0.52  1.00  2.60  16.0  15.0 293.8  2.0   0  0.00  80.  997.   2 NAD-SFC NoSubs
 8  8 13 226  4   -8.2  0.140 -9.000 -9.000 -999.  132.     29.6 0.2940  0.52  1.00  1.50  18.0  15.0 293.2  2.0   0  0.00  81.  997.   2 NAD-SFC NoSubs
 8  8 13 226  5   -4.0  0.102 -9.000 -9.000 -999.   78.     23.7 0.2940  0.52  1.00  1.00   6.0  15.0 292.9  2.0   0  0.00  81.  997.   2 NAD-SFC NoSubs
 8  8 13 226  6   -1.6  0.082 -9.000 -9.000 -999.   56.     31.3 0.2930  0.52  0.66  0.50 346.0  15.0 292.8  2.0   0  0.00  81.  998.   2 NAD-SFC NoSubs
 8  8 13 226  7   19.6  0.139  0.374  0.012   95.  125.    -12.3 0.2720  0.52  0.33  1.00 300.0  15.0 294.4  2.0   0  0.00  71.  998.   2 NAD-SFC NoSubs
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8	8	13	226	8	67.4	-9.000	-9.000	-9.000	175.	-999.	-99999.0	0.2235	0.52	0.23	0.00	0.0	15.0	296.4	2.0	0	0.00	64.	998.	2	NAD-SFC NoSubs
8	8	13	226	9	110.2	-9.000	-9.000	-9.000	293.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	298.6	2.0	0	0.00	58.	998.	2	NAD-SFC NoSubs
8	8	13	226	10	144.3	-9.000	-9.000	-9.000	454.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.5	2.0	0	0.00	53.	998.	2	NAD-SFC NoSubs
8	8	13	226	11	168.2	-9.000	-9.000	-9.000	689.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.2	2.0	0	0.00	49.	997.	2	NAD-SFC NoSubs
8	8	13	226	12	180.9	-9.000	-9.000	-9.000	817.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	304.2	2.0	0	0.00	43.	996.	2	NAD-SFC NoSubs
8	8	13	226	13	182.1	-9.000	-9.000	-9.000	929.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	305.8	2.0	0	0.00	38.	996.	2	NAD-SFC NoSubs
8	8	13	226	14	172.1	0.120	1.699	0.011	1013.	99.	-1.0	0.2720	0.52	0.19	0.50	308.0	15.0	306.9	2.0	0	0.00	34.	995.	2	NAD-SFC NoSubs
8	8	13	226	15	150.3	0.117	1.656	0.011	1074.	97.	-1.0	0.2720	0.52	0.19	0.50	322.0	15.0	307.6	2.0	0	0.00	31.	995.	2	NAD-SFC NoSubs
8	8	13	226	16	118.0	0.175	1.550	0.010	1120.	176.	-4.1	0.2930	0.52	0.20	1.00	357.0	15.0	307.9	2.0	0	0.00	31.	994.	2	NAD-SFC NoSubs
8	8	13	226	17	76.4	0.216	1.352	0.010	1147.	241.	-11.7	0.2940	0.52	0.23	1.50	7.0	15.0	307.5	2.0	0	0.00	37.	994.	2	NAD-SFC NoSubs
8	8	13	226	18	29.0	0.297	0.982	0.010	1156.	388.	-79.8	0.2940	0.52	0.32	2.60	25.0	15.0	306.8	2.0	0	0.00	42.	995.	2	NAD-SFC NoSubs
8	8	13	226	19	-21.0	0.254	-9.000	-9.000	-999.	307.	69.1	0.2940	0.52	0.62	2.60	6.0	15.0	305.2	2.0	0	0.00	47.	995.	2	NAD-SFC NoSubs
8	8	13	226	20	-40.2	0.397	-9.000	-9.000	-999.	601.	138.6	0.2720	0.52	1.00	4.10	312.0	15.0	303.8	2.0	0	0.00	52.	996.	2	NAD-SFC NoSubs
8	8	13	226	21	-45.8	0.448	-9.000	-9.000	-999.	718.	173.8	0.2720	0.52	1.00	4.60	303.0	15.0	300.0	2.0	0	0.00	64.	996.	2	NAD-SFC NoSubs
8	8	13	226	22	-38.4	0.373	-9.000	-9.000	-999.	550.	119.6	0.2160	0.52	1.00	4.10	288.0	15.0	298.1	2.0	0	0.00	65.	996.	2	NAD-SFC NoSubs
8	8	13	226	23	-35.9	0.347	-9.000	-9.000	-999.	491.	103.3	0.2720	0.52	1.00	3.60	303.0	15.0	297.0	2.0	0	0.00	66.	997.	2	NAD-SFC NoSubs
8	8	13	226	24	-31.5	0.303	-9.000	-9.000	-999.	402.	78.7	0.2930	0.52	1.00	3.10	335.0	15.0	296.2	2.0	0	0.00	66.	997.	2	NAD-SFC NoSubs
8	8	14	227	1	-31.5	0.303	-9.000	-9.000	-999.	401.	78.5	0.2930	0.52	1.00	3.10	357.0	15.0	295.8	2.0	0	0.00	66.	997.	2	NAD-SFC NoSubs
8	8	14	227	2	-37.0	0.355	-9.000	-9.000	-999.	507.	107.4	0.2940	0.52	1.00	3.60	17.0	15.0	295.2	2.0	0	0.00	67.	998.	2	NAD-SFC NoSubs
8	8	14	227	3	-37.1	0.355	-9.000	-9.000	-999.	507.	107.2	0.2940	0.52	1.00	3.60	16.0	15.0	294.8	2.0	0	0.00	68.	998.	2	NAD-SFC NoSubs
8	8	14	227	4	-7.6	0.133	-9.000	-9.000	-999.	176.	27.9	0.2470	0.52	1.00	1.50	35.0	15.0	294.5	2.0	0	0.00	68.	999.	2	NAD-SFC NoSubs
8	8	14	227	5	-3.7	0.099	-9.000	-9.000	-999.	76.	22.9	0.2470	0.52	1.00	1.00	32.0	15.0	294.5	2.0	0	0.00	67.	1000.	2	NAD-SFC NoSubs
8	8	14	227	6	-30.2	0.304	-9.000	-9.000	-999.	402.	82.9	0.2940	0.52	0.67	3.10	28.0	15.0	294.4	2.0	0	0.00	67.	1000.	2	NAD-SFC NoSubs
8	8	14	227	7	19.1	0.278	0.364	0.007	90.	352.	-100.8	0.2470	0.52	0.34	2.60	37.0	15.0	294.4	2.0	0	0.00	68.	1001.	2	NAD-SFC NoSubs
8	8	14	227	8	66.7	0.269	0.697	0.007	181.	335.	-26.0	0.2940	0.52	0.23	2.10	29.0	15.0	295.8	2.0	0	0.00	66.	1001.	2	NAD-SFC NoSubs
8	8	14	227	9	109.3	0.283	0.963	0.006	291.	360.	-18.4	0.2940	0.52	0.20	2.10	14.0	15.0	297.5	2.0	0	0.00	62.	1000.	2	NAD-SFC NoSubs
8	8	14	227	10	143.5	0.117	1.186	0.006	415.	121.	-1.0	0.2720	0.52	0.19	0.50	316.0	15.0	299.6	2.0	0	0.00	56.	999.	2	NAD-SFC NoSubs
8	8	14	227	11	167.5	0.108	1.470	0.009	676.	86.	-1.0	0.1750	0.52	0.19	0.50	265.0	15.0	301.8	2.0	0	0.00	47.	999.	2	NAD-SFC NoSubs
8	8	14	227	12	180.1	0.114	1.619	0.010	841.	93.	-1.0	0.2160	0.52	0.19	0.50	273.0	15.0	303.5	2.0	0	0.00	43.	998.	2	NAD-SFC NoSubs
8	8	14	227	13	181.1	0.115	1.705	0.010	976.	93.	-1.0	0.2160	0.52	0.19	0.50	293.0	15.0	304.8	2.0	0	0.00	41.	998.	2	NAD-SFC NoSubs
8	8	14	227	14	170.9	0.109	1.710	0.010	1042.	86.	-1.0	0.1750	0.52	0.19	0.50	267.0	15.0	305.8	2.0	0	0.00	40.	997.	2	NAD-SFC NoSubs
8	8	14	227	15	148.9	0.111	1.661	0.009	1096.	89.	-1.0	0.2160	0.52	0.19	0.50	275.0	15.0	306.2	2.0	0	0.00	40.	997.	2	NAD-SFC NoSubs
8	8	14	227	16	116.3	0.115	1.548	0.009	1136.	94.	-1.2	0.2930	0.52	0.20	0.50	332.0	15.0	306.2	2.0	0	0.00	44.	997.	2	NAD-SFC NoSubs
8	8	14	227	17	74.9	0.216	1.347	0.009	1161.	240.	-11.9	0.2940	0.52	0.23	1.50	6.0	15.0	306.1	2.0	0	0.00	46.	997.	2	NAD-SFC NoSubs
8	8	14	227	18	27.4	0.250	0.965	0.009	1168.	300.	-50.6	0.2940	0.52	0.32	2.10	2.0	15.0	305.2	2.0	0	0.00	50.	997.	2	NAD-SFC NoSubs
8	8	14	227	19	-30.0	0.348	-9.000	-9.000	-999.	493.	125.2	0.2720	0.52	0.63	3.60	315.0	15.0	304.4	2.0	0	0.00	53.	998.	2	NAD-SFC NoSubs
8	8	14	227	20	-45.7	0.448	-9.000	-9.000	-999.	719.	174.7	0.2720	0.52	1.00	4.60	304.0	15.0	301.5	2.0	0	0.00	64.	998.	2	NAD-SFC NoSubs
8	8	14	227	21	-38.3	0.373	-9.000	-9.000	-999.	550.	120.2	0.2160	0.52	1.00	4.10	286.0	15.0	299.4	2.0	0	0.00	70.	998.	2	NAD-SFC NoSubs
8	8	14	227	22	-33.6	0.325	-9.000	-9.000	-999.	447.	91.4	0.2160	0.52	1.00	3.60	294.0	15.0	298.8	2.0	0	0.00	71.	999.	2	NAD-SFC NoSubs
8	8	14	227	23	-30.6	0.297	-9.000	-9.000	-999.	388.	75.8	0.2720	0.52	1.00	3.10	312.0	15.0	298.2	2.0	0	0.00	70.	999.	2	NAD-SFC NoSubs
8	8	14	227	24	-29.9	0.297	-9.000	-9.000	-999.	388.	77.9	0.2720	0.52	1.00	3.10	328.0	15.0	298.0	2.0	0	0.00	69.	999.	3	NAD-SFC NoSubs
8	8	15	228	1	-25.2	0.252	-9.000	-9.000	-999.	305.	56.7	0.2940	0.52	1.00	2.60	6.0	15.0	297.8	2.0	0	0.00	69.	999.	3	NAD-SFC NoSubs
8	8	15	228	2	-34.1	0.338	-9.000	-9.000	-999.	471.	100.6	0.2470	0.52	1.00	3.60	39.0	15.0	297.4	2.0	0	0.00	71.	1000.	3	NAD-SFC NoSubs
8	8	15	228	3	-34.2	0.338	-9.000	-9.000	-999.	471.	100.3	0.2470	0.52	1.00	3.60	42.0	15.0	296.8	2.0	0	0.00	75.	1000.	3	NAD-SFC NoSubs
8	8	15	228	4	-14.9	0.190	-9.000	-9.000	-999.	214.	41.2	0.2470	0.52	1.00	2.10	52.0	15.0	296.6	2.0	0	0.00	75.	1000.	3	NAD-SFC NoSubs
8	8	15	228	5	-1.5	0.081	-9.000	-9.000	-999.	66.	31.3	0.2470	0.52	1.00	0.50	49.0	15.0	296.4	2.0	0	0.00	75.	1000.	3	NAD-SFC NoSubs
8	8	15	228	6	9.6	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.67	0.00	0.0	15.0	296.1	2.0	0	0.00	77.	1001.	3	NAD-SFC NoSubs
8	8	15	228	7	20.7	0.085	0.468	0.008	176.	60.	-2.7	0.2160	0.52	0.34	0.50	299.0	15.0	296.8	2.0	0	0.00	73.	1001.	3	NAD-SFC NoSubs
8	8	15	228	8	67.3	-9.000	-9.000	-9.000	309.	-999.	-99999.0	0.2235	0.52	0.23	0.00	0.0	15.0	298.5	2.0	0	0.00	63.	1001.	2	NAD-SFC NoSubs
8	8	15	228	9	109.8	-9.000	-9.000	-9.000	452.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	299.8	2.0	0	0.00	59.	1001.	2	NAD-SFC NoSubs
8	8	15	228	10	143.7	-9.000	-9.000	-9.000	601.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.0	2.0	0	0.00	56.	1000.	2	NAD-SFC NoSubs
8	8	15	228	11	167.6	-9.000	-9.000	-9.000	773.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.8	2.0	0	0.00	51.	1000.	2	NAD-SFC NoSubs
8	8	15	228	12	180.0	-9.000	-9.000	-9.000	945.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	304.2	2.0	0	0.00	47.	999.	2	NAD-SFC NoSubs
8	8	15	228	13	181.1	0.114	1.748	0.009	1052.	93.	-1.0	0.2130	0.52	0.19	0.50	115.0	15.0	305.5	2.0	0	0.00	44.	998.	2	NAD-SFC NoSubs
8	8	15	228	14	170.7	0.113	1.759	0.009	1136.	91.	-1.0	0.2130	0.52	0.19	0.50	96.0	15.0	306.4	2.0	0	0.00	42.	998.	2	NAD-SFC NoSubs
8	8	15	228	15	148.8	0.109	1.714	0.009	1205.	87.	-1.0	0.1970	0.52	0.19	0.50	134.0	15.0	307.0	2.0	0	0.00	40.	997.	2	NAD-SFC NoSubs
8	8	15	228	16	116.6	0.105	1.602	0.009	1255.	82.	-1.0	0.1970	0.52	0.20	0.50	145.0	15.0	307.2	2.0	0	0.00	40.	997.	3	NAD-SFC NoSubs
8	8	15	228	17	75.5	0.159	1.398	0.009	1287.	153.	-4.8	0.2470	0.52	0.23	1.00	33.0	15.0	307.2	2.0	0	0.00	42.	997.	3	NAD-SFC NoSubs
8	8	15	228	18	28.5	0.342	1.013	0.009	1297.	481.	-125.1	0.2930	0.52	0.33	3.10	337.0	15.0	306.5	2.0	0	0.00	48.	997.	3	NAD-SFC NoSubs
8	8	15	228	19	-33.7	0.399	-9.000	-9.000	-999.	604.	167.2	0.2720	0.52	0.64	4.10	325.0	15.0	304.1	2.0	0	0.00	57.	998.	3	NAD-SFC NoSubs
8	8	15	228	20	-39.5	0.397	-9.000	-9.000	-999.	601.	141.3	0.2720	0.52	1.00	4.10	312.0	15.0	301.6	2.0	0	0.00	63.	998.	3	NAD-SFC NoSubs
8	8	15	228	21	-29.7	0.297	-9.000	-9.000	-999.	394.	78.5	0.2720	0.52	1.00	3.10	319.0	15.0	300.2	2.0	0	0.00	64.	998.	3	NAD-SFC NoSubs
8	8	15	228	22	-30.4	0.303	-9.000	-9.000	-999.	401.	81.8	0.2930	0.52	1.00	3.10	332.0	15.0	299.4	2.0	0	0.00	63.	999.	3	NAD-SFC NoSubs
8	8	15	228	23	-31.3	0.303	-9.000	-9.000	-999.	401.	79.4	0.2930	0.52	1.00	3.10	344.0	15.0	298.8	2.0	0	0.00	63.	999.	2	NAD-SFC NoSubs
8	8	15	228	24	-25.1	0.252	-9.000	-9.000	-999.	304.	56.7	0.2930	0.52	1.00	2.60	347.0	15.0	298.1	2.0	0	0.00	63.	999.	3	NAD-SFC NoSubs
8	8	16	229	1	-30.7	0.304	-9.000	-9.000	-999.	402.	81.4	0.2940	0.52	1.00	3.10	18.0	15.0	297.5	2.0	0	0.00	64.	999.	3	NAD-SFC NoSubs
8	8	16	229	2	-35.9	0.355	-9.000	-9.000	-999.	507.	110.9	0.2940	0.52	1.00	3.60	23.0	15.0	296.8	2.0	0	0.00	67.	999.	3	NAD-SFC NoSubs
8	8	16	229	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	295.9	2.0	0	0.00	69.	1000.	3	NAD-SFC NoSubs
8	8	16	229	4	-36.1	0.355	-9.000	-9.000	-999.	507.	110.1	0.2930	0.52	1.00	3.60	346.0	15.0	295.2	2.0	0	0.00	71.	1000.	3	NAD-SFC NoSubs
8	8	16	229	5	-30.9	0.303	-9.000	-9.000	-999.	402.	80.4	0.2930	0.52	1.00	3.10	348.0	15.0	294.8	2.0	0	0.00	71.	1000.	3	NAD-SFC NoSubs
8	8	16	229	6	-24.7	0.252	-9.000	-9.000	-999.	305.	57.9	0.2930	0.52	0.68	2.60	337.0	15.0	294.2	2.0	0	0.00	72.	1001.	3	NAD-SFC NoSubs
8	8	16	229	7	19.4	0.314	0.396	0.005	114.	422.	-142.1	0.2160	0.52	0.34	3.10	294.0	15.0	294.8	2.0	0	0.00	66.	1001.	3	NAD-SFC NoSubs
8	8	16	229	8	66.0	0.153	0.730	0.009	210.	164.	-4.8	0.2160	0.52	0.23	1.00	289.0	15.0	296.6	2.0	0	0.00	58.	1001.	2	NAD-SFC NoSubs
8	8	16	229	9	108.9	-9.000	-9.000	-9.000	345.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	298.8	2.0	0	0.00	53.	1000.	2	NAD-SFC NoSubs
8	8	16	229	10	143.1	-9.000	-9.000	-9.000	516.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.5	2.0	0	0.00	52.	999.	2	NAD-SFC NoSubs
8	8	16	229	11	166.9	-9.000	-9.000	-9.000	712.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.2	2.0	0	0.00	50.	999.	2	NAD-SFC NoSubs
8	8	16	229	12	179.4	-9.000	-9.000	-9.000	976.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.9	2.0	0	0.00	47.	998.	2	NAD-SFC NoSubs

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 8  8 16 229 13  180.5 -9.000 -9.000 -9.000 1052. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 305.2  2.0   0  0.00  43.  997.   2 NAD-SFC NoSubs
 8  8 16 229 14  170.2  0.122  1.749  0.011 1119.  102.     -1.0  0.2940  0.52  0.19  0.50   9.0  15.0 306.4  2.0   0  0.00  39.  996.   2 NAD-SFC NoSubs
 8  8 16 229 15  148.2  0.233  1.698  0.011 1174.  270.     -7.5  0.2940  0.52  0.19  1.50  15.0  15.0 307.1  2.0   0  0.00  35.  995.   2 NAD-SFC NoSubs
 8  8 16 229 16  115.7  0.284  1.581  0.011 1215.  364.    -17.6  0.2940  0.52  0.20  2.10   2.0  15.0 307.5  2.0   0  0.00  33.  995.   2 NAD-SFC NoSubs
 8  8 16 229 17   73.7  0.272  1.370  0.011 1239.  340.    -24.1  0.2930  0.52  0.23  2.10 332.0  15.0 306.9  2.0   0  0.00  41.  995.   2 NAD-SFC NoSubs
 8  8 16 229 18   25.4  0.450  0.962  0.011 1244.  725.   -318.8  0.2160  0.52  0.33  4.60 292.0  15.0 304.8  2.0   0  0.00  47.  996.   2 NAD-SFC NoSubs
 8  8 16 229 19  -39.1  0.421 -9.000 -9.000 -999.  656.    169.5  0.2160  0.52  0.65  4.60 288.0  15.0 300.6  2.0   0  0.00  55.  997.   2 NAD-SFC NoSubs
 8  8 16 229 20  -41.0  0.397 -9.000 -9.000 -999.  601.    136.0  0.2720  0.52  1.00  4.10 301.0  15.0 298.2  2.0   0  0.00  58.  998.   2 NAD-SFC NoSubs
 8  8 16 229 21  -36.0  0.347 -9.000 -9.000 -999.  492.    103.2  0.2720  0.52  1.00  3.60 309.0  15.0 296.8  2.0   0  0.00  60.  998.   2 NAD-SFC NoSubs
 8  8 16 229 22  -36.1  0.347 -9.000 -9.000 -999.  490.    102.8  0.2720  0.52  1.00  3.60 322.0  15.0 295.8  2.0   0  0.00  61.  999.   2 NAD-SFC NoSubs
 8  8 16 229 23  -37.0  0.354 -9.000 -9.000 -999.  506.    107.1  0.2930  0.52  1.00  3.60 337.0  15.0 295.0  2.0   0  0.00  62.  999.   2 NAD-SFC NoSubs
 8  8 16 229 24  -31.8  0.303 -9.000 -9.000 -999.  402.     78.3  0.2940  0.52  1.00  3.10   7.0  15.0 294.2  2.0   0  0.00  64. 1000.   2 NAD-SFC NoSubs
 8  8 17 230  1  -31.9  0.303 -9.000 -9.000 -999.  401.     78.1  0.2940  0.52  1.00  3.10  28.0  15.0 293.6  2.0   0  0.00  67. 1000.   2 NAD-SFC NoSubs
 8  8 17 230  2  -23.4  0.239 -9.000 -9.000 -999.  283.     52.4  0.2470  0.52  1.00  2.60  35.0  15.0 293.0  2.0   0  0.00  69. 1000.   3 NAD-SFC NoSubs
 8  8 17 230  3   -8.1  0.140 -9.000 -9.000 -999.  130.     30.0  0.2940  0.52  1.00  1.50  24.0  15.0 292.5  2.0   0  0.00  70. 1000.   3 NAD-SFC NoSubs
 8  8 17 230  4   -8.1  0.140 -9.000 -9.000 -999.  126.     30.0  0.2940  0.52  1.00  1.50  18.0  15.0 292.1  2.0   0  0.00  71. 1000.   3 NAD-SFC NoSubs
 8  8 17 230  5   -4.0  0.102 -9.000 -9.000 -999.   79.     23.7  0.2940  0.52  1.00  1.00  11.0  15.0 291.8  2.0   0  0.00  72. 1001.   2 NAD-SFC NoSubs
 8  8 17 230  6    6.4 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  0.69  0.00   0.0  15.0 291.4  2.0   0  0.00  72. 1001.   2 NAD-SFC NoSubs
 8  8 17 230  7   16.9  0.268  0.412  0.009  147.  334.    -102.2  0.2160  0.52  0.34  2.60 282.0  15.0 292.5  2.0   0  0.00  65. 1001.   2 NAD-SFC NoSubs
 8  8 17 230  8   64.7  0.152  0.769  0.010  251.  150.     -4.9  0.2160  0.52  0.24  1.00 294.0  15.0 294.2  2.0   0  0.00  58. 1001.   2 NAD-SFC NoSubs
 8  8 17 230  9  107.5 -9.000 -9.000 -9.000  362. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 296.2  2.0   0  0.00  50. 1000.   2 NAD-SFC NoSubs
 8  8 17 230 10  141.6 -9.000 -9.000 -9.000  506. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 298.1  2.0   0  0.00  46. 1000.   2 NAD-SFC NoSubs
 8  8 17 230 11  165.4 -9.000 -9.000 -9.000  645. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 299.9  2.0   0  0.00  42.  999.   2 NAD-SFC NoSubs
 8  8 17 230 12  177.8 -9.000 -9.000 -9.000  783. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 301.6  2.0   0  0.00  37.  999.   2 NAD-SFC NoSubs
 8  8 17 230 13  178.8  0.122  1.654  0.011  902.  103.     -1.0  0.2930  0.52  0.19  0.50 332.0  15.0 302.9  2.0   0  0.00  34.  998.   2 NAD-SFC NoSubs
 8  8 17 230 14  168.3  0.121  1.673  0.012  992.  101.     -1.0  0.2930  0.52  0.19  0.50 350.0  15.0 303.9  2.0   0  0.00  31.  998.   2 NAD-SFC NoSubs
 8  8 17 230 15  146.2  0.180  1.625  0.012 1046.  184.     -3.6  0.2940  0.52  0.19  1.00   1.0  15.0 304.6  2.0   0  0.00  31.  997.   2 NAD-SFC NoSubs
 8  8 17 230 16  113.6  0.226  1.513  0.011 1086.  257.     -9.0  0.2940  0.52  0.20  1.50   1.0  15.0 305.2  2.0   0  0.00  30.  997.   2 NAD-SFC NoSubs
 8  8 17 230 17   71.8  0.215  1.308  0.011 1110.  239.    -12.3  0.2940  0.52  0.23  1.50   4.0  15.0 304.9  2.0   0  0.00  37.  997.   2 NAD-SFC NoSubs
 8  8 17 230 18   24.4  0.334  0.915  0.011 1117.  464.   -135.9  0.2720  0.52  0.33  3.10 323.0  15.0 304.5  2.0   0  0.00  40.  998.   2 NAD-SFC NoSubs
 8  8 17 230 19  -39.7  0.421 -9.000 -9.000 -999.  655.    166.9  0.2160  0.52  0.66  4.60 288.0  15.0 301.2  2.0   0  0.00  49.  998.   2 NAD-SFC NoSubs
 8  8 17 230 20  -43.5  0.420 -9.000 -9.000 -999.  653.    151.5  0.2160  0.52  1.00  4.60 285.0  15.0 297.2  2.0   0  0.00  62.  999.   2 NAD-SFC NoSubs
 8  8 17 230 21  -38.9  0.373 -9.000 -9.000 -999.  547.    118.4  0.2160  0.52  1.00  4.10 280.0  15.0 295.2  2.0   0  0.00  66. 1000.   2 NAD-SFC NoSubs
 8  8 17 230 22  -34.1  0.325 -9.000 -9.000 -999.  447.     89.9  0.2160  0.52  1.00  3.60 285.0  15.0 293.9  2.0   0  0.00  69. 1000.   2 NAD-SFC NoSubs
 8  8 17 230 23  -29.3  0.278 -9.000 -9.000 -999.  353.     65.5  0.2160  0.52  1.00  3.10 283.0  15.0 293.1  2.0   0  0.00  72. 1000.   2 NAD-SFC NoSubs
 8  8 17 230 24   -7.9  0.137 -9.000 -9.000 -999.  136.     29.1  0.2720  0.52  1.00  1.50 304.0  15.0 292.6  2.0   0  0.00  72. 1001.   3 NAD-SFC NoSubs
 8  8 18 231  1   -3.9  0.101 -9.000 -9.000 -999.   78.     23.7  0.2930  0.52  1.00  1.00 360.0  15.0 292.1  2.0   0  0.00  74. 1001.   3 NAD-SFC NoSubs
 8  8 18 231  2   -1.6  0.083 -9.000 -9.000 -999.   58.     31.9  0.2720  0.52  1.00  0.50 311.0  15.0 291.6  2.0   0  0.00  75. 1002.   2 NAD-SFC NoSubs
 8  8 18 231  3   -7.2  0.129 -9.000 -9.000 -999.  111.     26.5  0.2160  0.52  1.00  1.50 285.0  15.0 291.1  2.0   0  0.00  75. 1002.   2 NAD-SFC NoSubs
 8  8 18 231  4   -7.2  0.129 -9.000 -9.000 -999.  111.     26.5  0.2160  0.52  1.00  1.50 281.0  15.0 290.8  2.0   0  0.00  75. 1002.   2 NAD-SFC NoSubs
 8  8 18 231  5   -8.0  0.137 -9.000 -9.000 -999.  122.     28.7  0.2720  0.52  1.00  1.50 300.0  15.0 290.2  2.0   0  0.00  77. 1002.   2 NAD-SFC NoSubs
 8  8 18 231  6   -7.9  0.137 -9.000 -9.000 -999.  121.     29.0  0.2720  0.52  0.70  1.50 312.0  15.0 289.9  2.0   0  0.00  79. 1003.   2 NAD-SFC NoSubs
 8  8 18 231  7   15.8  0.185  0.378  0.010  122.  191.    -35.7  0.2930  0.52  0.34  1.50 341.0  15.0 290.8  2.0   0  0.00  78. 1003.   2 NAD-SFC NoSubs
 8  8 18 231  8   63.6  0.104  0.797  0.011  284.   83.     -1.6  0.2720  0.52  0.24  0.50 325.0  15.0 292.5  2.0   0  0.00  73. 1003.   2 NAD-SFC NoSubs
 8  8 18 231  9  106.3 -9.000 -9.000 -9.000  425. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 294.2  2.0   0  0.00  66. 1002.   2 NAD-SFC NoSubs
 8  8 18 231 10  140.3 -9.000 -9.000 -9.000  533. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 296.0  2.0   0  0.00  60. 1002.   2 NAD-SFC NoSubs
 8  8 18 231 11  164.2 -9.000 -9.000 -9.000  638. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 298.0  2.0   0  0.00  52. 1002.   2 NAD-SFC NoSubs
 8  8 18 231 12  176.4 -9.000 -9.000 -9.000  738. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 299.5  2.0   0  0.00  47. 1001.   2 NAD-SFC NoSubs
 8  8 18 231 13  177.3  0.120  1.602  0.011  828.  100.     -1.0  0.2720  0.52  0.19  0.50 314.0  15.0 300.9  2.0   0  0.00  43. 1000.   2 NAD-SFC NoSubs
 8  8 18 231 14  166.8  0.183  1.617  0.010  905.  188.     -3.3  0.2930  0.52  0.19  1.00 332.0  15.0 302.1  2.0   0  0.00  40.  999.   2 NAD-SFC NoSubs
 8  8 18 231 15  144.5  0.290  1.576  0.010  967.  375.    -15.1  0.2930  0.52  0.19  2.10 352.0  15.0 302.8  2.0   0  0.00  38.  999.   2 NAD-SFC NoSubs
 8  8 18 231 16  111.7  0.376  1.470  0.010 1014.  553.    -42.3  0.2940  0.52  0.20  3.10   3.0  15.0 302.9  2.0   0  0.00  39.  998.   2 NAD-SFC NoSubs
 8  8 18 231 17   69.6  0.317  1.267  0.010 1041.  429.    -40.6  0.2940  0.52  0.23  2.60   8.0  15.0 302.2  2.0   0  0.00  48.  998.   2 NAD-SFC NoSubs
 8  8 18 231 18   22.0  0.386  0.866  0.010 1048.  574.   -231.7  0.2940  0.52  0.34  3.60   9.0  15.0 301.5  2.0   0  0.00  54.  999.   2 NAD-SFC NoSubs
 8  8 18 231 19  -34.3  0.355 -9.000 -9.000 -999.  508.    116.2  0.2930  0.52  0.67  3.60 335.0  15.0 300.2  2.0   0  0.00  56.  999.   2 NAD-SFC NoSubs
 8  8 18 231 20  -44.8  0.443 -9.000 -9.000 -999.  708.    173.1  0.1750  0.52  1.00  5.10 267.0  15.0 297.1  2.0   0  0.00  64. 1000.   3 NAD-SFC NoSubs
 8  8 18 231 21  -53.7  0.525 -9.000 -9.000 -999.  913.    240.7  0.2160  0.52  1.00  5.70 273.0  15.0 294.2  2.0   0  0.00  68. 1000.   3 NAD-SFC NoSubs
 8  8 18 231 22  -36.3  0.353 -9.000 -9.000 -999.  529.    108.4  0.1750  0.52  1.00  4.10 269.0  15.0 293.0  2.0   0  0.00  71. 1001.   3 NAD-SFC NoSubs
 8  8 18 231 23  -28.6  0.278 -9.000 -9.000 -999.  356.     67.1  0.2160  0.52  1.00  3.10 276.0  15.0 292.2  2.0   0  0.00  75. 1001.   3 NAD-SFC NoSubs
 8  8 18 231 24  -24.5  0.246 -9.000 -9.000 -999.  294.     54.3  0.2720  0.52  1.00  2.60 312.0  15.0 291.8  2.0   0  0.00  77. 1002.   3 NAD-SFC NoSubs
 8  8 19 232  1  -25.5  0.252 -9.000 -9.000 -999.  303.     56.0  0.2930  0.52  1.00  2.60 349.0  15.0 291.8  2.0   0  0.00  77. 1002.   3 NAD-SFC NoSubs
 8  8 19 232  2  -16.1  0.200 -9.000 -9.000 -999.  216.     44.7  0.2940  0.52  1.00  2.10   4.0  15.0 291.4  2.0   0  0.00  79. 1002.   4 NAD-SFC NoSubs
 8  8 19 232  3   -8.2  0.140 -9.000 -9.000 -999.  126.     29.9  0.2930  0.52  1.00  1.50 346.0  15.0 290.9  2.0   0  0.00  81. 1003.   3 NAD-SFC NoSubs
 8  8 19 232  4   -4.0  0.102 -9.000 -9.000 -999.   78.     23.7  0.2930  0.52  1.00  1.00 347.0  15.0 290.4  2.0   0  0.00  83. 1003.   3 NAD-SFC NoSubs
 8  8 19 232  5   -4.0  0.102 -9.000 -9.000 -999.   78.     23.7  0.2940  0.52  1.00  1.00  11.0  15.0 289.9  2.0   0  0.00  85. 1003.   3 NAD-SFC NoSubs
 8  8 19 232  6   -3.9  0.101 -9.000 -9.000 -999.   77.     23.7  0.2940  0.52  0.70  1.00  28.0  15.0 289.4  2.0   0  0.00  87. 1004.   3 NAD-SFC NoSubs
 8  8 19 232  7   16.3  0.240  0.476  0.009  236.  283.    -76.2  0.2940  0.52  0.35  2.10   6.0  15.0 289.8  2.0   0  0.00  82. 1004.   3 NAD-SFC NoSubs
 8  8 19 232  8   63.5  0.106  0.853  0.009  349.   96.     -1.7  0.2930  0.52  0.24  0.50 357.0  15.0 291.1  2.0   0  0.00  75. 1004.   3 NAD-SFC NoSubs
 8  8 19 232  9  105.8 -9.000 -9.000 -9.000  475. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 292.6  2.0   0  0.00  69. 1004.   3 NAD-SFC NoSubs
 8  8 19 232 10  139.4 -9.000 -9.000 -9.000  600. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 294.2  2.0   0  0.00  63. 1003.   3 NAD-SFC NoSubs
 8  8 19 232 11  162.9 -9.000 -9.000 -9.000  723. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 296.0  2.0   0  0.00  58. 1003.   2 NAD-SFC NoSubs
 8  8 19 232 12  175.1 -9.000 -9.000 -9.000  839. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 297.5  2.0   0  0.00  53. 1002.   2 NAD-SFC NoSubs
 8  8 19 232 13  175.8  0.120  1.667  0.009  942.  100.     -1.0  0.2720  0.52  0.19  0.50 329.0  15.0 298.6  2.0   0  0.00  49. 1001.   2 NAD-SFC NoSubs
 8  8 19 232 14  165.0  0.183  1.680  0.009 1026.  187.     -3.3  0.2930  0.52  0.19  1.00 336.0  15.0 299.5  2.0   0  0.00  45. 1000.   2 NAD-SFC NoSubs
 8  8 19 232 15  142.7  0.290  1.634  0.009 1092.  374.    -15.2  0.2930  0.52  0.19  2.10 347.0  15.0 300.2  2.0   0  0.00  42. 1000.   2 NAD-SFC NoSubs
 8  8 19 232 16  109.7  0.375  1.520  0.009 1141.  551.    -42.8  0.2930  0.52  0.20  3.10 358.0  15.0 300.4  2.0   0  0.00  41.  999.   2 NAD-SFC NoSubs
 8  8 19 232 17   67.6  0.362  1.304  0.009 1168.  522.    -62.2  0.2940  0.52  0.23  3.10  12.0  15.0 299.9  2.0   0  0.00  48.  999.   2 NAD-SFC NoSubs
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8	8	19	232	18	20.0	0.384	0.870	0.009	1174.	571.	-252.6	0.2940	0.52	0.34	3.60	7.0	15.0	299.0	2.0	0	0.00	56.	1000.	2	NAD-SFC	NoSubs
8	8	19	232	19	-35.3	0.355	-9.000	-9.000	-999.	509.	113.2	0.2940	0.52	0.68	3.60	7.0	15.0	297.4	2.0	0	0.00	60.	1000.	2	NAD-SFC	NoSubs
8	8	19	232	20	-36.0	0.355	-9.000	-9.000	-999.	507.	110.6	0.2930	0.52	1.00	3.60	349.0	15.0	296.4	2.0	0	0.00	62.	1000.	3	NAD-SFC	NoSubs
8	8	19	232	21	-35.4	0.347	-9.000	-9.000	-999.	491.	105.3	0.2720	0.52	1.00	3.60	326.0	15.0	295.0	2.0	0	0.00	68.	1001.	3	NAD-SFC	NoSubs
8	8	19	232	22	-36.3	0.355	-9.000	-9.000	-999.	507.	109.5	0.2930	0.52	1.00	3.60	345.0	15.0	293.8	2.0	0	0.00	75.	1001.	3	NAD-SFC	NoSubs
8	8	19	232	23	-30.0	0.304	-9.000	-9.000	-999.	403.	83.2	0.2930	0.52	1.00	3.10	335.0	15.0	293.2	2.0	0	0.00	79.	1001.	4	NAD-SFC	NoSubs
8	8	19	232	24	-30.5	0.297	-9.000	-9.000	-999.	388.	76.4	0.2720	0.52	1.00	3.10	321.0	15.0	292.5	2.0	0	0.00	81.	1001.	3	NAD-SFC	NoSubs
8	8	20	233	1	-25.4	0.252	-9.000	-9.000	-999.	304.	56.0	0.2930	0.52	1.00	2.60	335.0	15.0	291.8	2.0	0	0.00	83.	1001.	3	NAD-SFC	NoSubs
8	8	20	233	2	-16.3	0.200	-9.000	-9.000	-999.	215.	43.7	0.2930	0.52	1.00	2.10	349.0	15.0	291.2	2.0	0	0.00	83.	1001.	3	NAD-SFC	NoSubs
8	8	20	233	3	-8.2	0.140	-9.000	-9.000	-999.	126.	29.9	0.2940	0.52	1.00	1.50	10.0	15.0	290.8	2.0	0	0.00	84.	1001.	3	NAD-SFC	NoSubs
8	8	20	233	4	-4.0	0.102	-9.000	-9.000	-999.	78.	23.7	0.2940	0.52	1.00	1.00	11.0	15.0	290.2	2.0	0	0.00	86.	1001.	3	NAD-SFC	NoSubs
8	8	20	233	5	-4.0	0.102	-9.000	-9.000	-999.	78.	23.7	0.2930	0.52	1.00	1.00	336.0	15.0	289.8	2.0	0	0.00	87.	1001.	3	NAD-SFC	NoSubs
8	8	20	233	6	-1.6	0.084	-9.000	-9.000	-999.	58.	31.9	0.2930	0.52	0.71	0.50	345.0	15.0	289.2	2.0	0	0.00	89.	1002.	2	NAD-SFC	NoSubs
8	8	20	233	7	14.5	0.184	0.419	0.007	180.	189.	-38.3	0.2940	0.52	0.35	1.50	11.0	15.0	289.8	2.0	0	0.00	83.	1002.	2	NAD-SFC	NoSubs
8	8	20	233	8	62.2	-9.000	-9.000	-9.000	309.	-999.	-99999.0	0.2235	0.52	0.24	0.00	0.0	15.0	291.2	2.0	0	0.00	75.	1002.	2	NAD-SFC	NoSubs
8	8	20	233	9	105.0	-9.000	-9.000	-9.000	474.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	293.0	2.0	0	0.00	68.	1002.	2	NAD-SFC	NoSubs
8	8	20	233	10	139.0	-9.000	-9.000	-9.000	672.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.8	2.0	0	0.00	61.	1001.	2	NAD-SFC	NoSubs
8	8	20	233	11	162.7	-9.000	-9.000	-9.000	813.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.6	2.0	0	0.00	54.	1000.	2	NAD-SFC	NoSubs
8	8	20	233	12	174.9	-9.000	-9.000	-9.000	942.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.2	2.0	0	0.00	49.	999.	2	NAD-SFC	NoSubs
8	8	20	233	13	175.6	-9.000	-9.000	-9.000	1029.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.4	2.0	0	0.00	46.	998.	2	NAD-SFC	NoSubs
8	8	20	233	14	164.7	0.119	1.718	0.012	1097.	98.	-1.0	0.2720	0.52	0.19	0.50	319.0	15.0	300.2	2.0	0	0.00	44.	998.	2	NAD-SFC	NoSubs
8	8	20	233	15	142.3	0.180	1.664	0.013	1153.	183.	-3.6	0.2930	0.52	0.19	1.00	343.0	15.0	300.9	2.0	0	0.00	43.	997.	2	NAD-SFC	NoSubs
8	8	20	233	16	109.3	0.225	1.542	0.013	1193.	256.	-9.2	0.2940	0.52	0.20	1.50	5.0	15.0	301.2	2.0	0	0.00	42.	997.	2	NAD-SFC	NoSubs
8	8	20	233	17	67.3	0.269	1.321	0.013	1218.	335.	-25.8	0.2940	0.52	0.24	2.10	18.0	15.0	301.1	2.0	0	0.00	44.	996.	2	NAD-SFC	NoSubs
8	8	20	233	18	20.0	0.235	0.882	0.013	1224.	273.	-57.7	0.2470	0.52	0.34	2.10	44.0	15.0	300.9	2.0	0	0.00	49.	997.	2	NAD-SFC	NoSubs
8	8	20	233	19	-23.0	0.240	-9.000	-9.000	-999.	282.	53.4	0.2470	0.52	0.69	2.60	50.0	15.0	299.8	2.0	0	0.00	52.	997.	2	NAD-SFC	NoSubs
8	8	20	233	20	-7.4	0.133	-9.000	-9.000	-999.	122.	28.4	0.2470	0.52	1.00	1.50	57.0	15.0	298.6	2.0	0	0.00	56.	997.	3	NAD-SFC	NoSubs
8	8	20	233	21	-1.4	0.079	-9.000	-9.000	-999.	54.	30.9	0.2130	0.52	1.00	0.50	115.0	15.0	297.2	2.0	0	0.00	62.	997.	3	NAD-SFC	NoSubs
8	8	20	233	22	-1.4	0.078	-9.000	-9.000	-999.	53.	30.7	0.1900	0.52	1.00	0.50	184.0	15.0	296.0	2.0	0	0.00	68.	997.	3	NAD-SFC	NoSubs
8	8	20	233	23	-1.4	0.079	-9.000	-9.000	-999.	53.	30.8	0.1970	0.52	1.00	0.50	137.0	15.0	295.1	2.0	0	0.00	73.	997.	3	NAD-SFC	NoSubs
8	8	20	233	24	-3.5	0.096	-9.000	-9.000	-999.	71.	22.3	0.2130	0.52	1.00	1.00	111.0	15.0	294.2	2.0	0	0.00	76.	997.	3	NAD-SFC	NoSubs
8	8	21	234	1	-3.5	0.096	-9.000	-9.000	-999.	71.	22.3	0.2130	0.52	1.00	1.00	106.0	15.0	293.6	2.0	0	0.00	79.	997.	3	NAD-SFC	NoSubs
8	8	21	234	2	-3.4	0.094	-9.000	-9.000	-999.	70.	22.0	0.1970	0.52	1.00	1.00	123.0	15.0	293.0	2.0	0	0.00	81.	997.	3	NAD-SFC	NoSubs
8	8	21	234	3	-1.4	0.079	-9.000	-9.000	-999.	53.	30.9	0.1970	0.52	1.00	0.50	134.0	15.0	292.5	2.0	0	0.00	82.	997.	3	NAD-SFC	NoSubs
8	8	21	234	4	-1.6	0.083	-9.000	-9.000	-999.	57.	31.7	0.2930	0.52	1.00	0.50	352.0	15.0	292.0	2.0	0	0.00	84.	997.	3	NAD-SFC	NoSubs
8	8	21	234	5	-4.0	0.102	-9.000	-9.000	-999.	78.	23.6	0.2930	0.52	1.00	1.00	347.0	15.0	291.6	2.0	0	0.00	87.	997.	2	NAD-SFC	NoSubs
8	8	21	234	6	-4.0	0.102	-9.000	-9.000	-999.	78.	23.6	0.2930	0.52	0.72	1.00	356.0	15.0	291.4	2.0	0	0.00	88.	998.	2	NAD-SFC	NoSubs
8	8	21	234	7	14.8	0.184	0.308	0.005	70.	189.	-37.4	0.2940	0.52	0.35	1.50	23.0	15.0	292.6	2.0	0	0.00	84.	998.	2	NAD-SFC	NoSubs
8	8	21	234	8	62.7	0.106	0.750	0.005	240.	85.	-1.7	0.2940	0.52	0.24	0.50	28.0	15.0	294.4	2.0	0	0.00	77.	998.	2	NAD-SFC	NoSubs
8	8	21	234	9	105.6	-9.000	-9.000	-9.000	434.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.2	2.0	0	0.00	68.	998.	2	NAD-SFC	NoSubs
8	8	21	234	10	139.7	-9.000	-9.000	-9.000	740.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.8	2.0	0	0.00	62.	998.	2	NAD-SFC	NoSubs
8	8	21	234	11	163.4	-9.000	-9.000	-9.000	976.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.5	2.0	0	0.00	57.	997.	2	NAD-SFC	NoSubs
8	8	21	234	12	175.6	-9.000	-9.000	-9.000	1027.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.9	2.0	0	0.00	53.	997.	2	NAD-SFC	NoSubs
8	8	21	234	13	176.2	0.122	1.747	0.014	1076.	102.	-1.0	0.2930	0.52	0.19	0.50	338.0	15.0	301.9	2.0	0	0.00	50.	996.	2	NAD-SFC	NoSubs
8	8	21	234	14	165.3	0.183	1.734	0.013	1121.	188.	-3.3	0.2940	0.52	0.19	1.00	2.0	15.0	302.8	2.0	0	0.00	49.	995.	2	NAD-SFC	NoSubs
8	8	21	234	15	142.8	0.232	1.669	0.013	1158.	268.	-7.7	0.2940	0.52	0.19	1.50	15.0	15.0	303.2	2.0	0	0.00	48.	995.	2	NAD-SFC	NoSubs
8	8	21	234	16	110.1	0.283	1.544	0.013	1186.	361.	-18.2	0.2940	0.52	0.20	2.10	25.0	15.0	303.4	2.0	0	0.00	49.	994.	3	NAD-SFC	NoSubs
8	8	21	234	17	68.4	0.270	1.323	0.013	1202.	336.	-25.4	0.2940	0.52	0.24	2.10	24.0	15.0	303.4	2.0	0	0.00	55.	994.	3	NAD-SFC	NoSubs
8	8	21	234	18	21.3	0.338	0.898	0.013	1207.	471.	-160.7	0.2940	0.52	0.35	3.10	7.0	15.0	302.9	2.0	0	0.00	61.	995.	3	NAD-SFC	NoSubs
8	8	21	234	19	-6.4	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.71	0.00	0.0	15.0	301.0	2.0	0	0.00	70.	995.	3	NAD-SFC	NoSubs
8	8	21	234	20	-34.2	0.355	-9.000	-9.000	-999.	508.	116.2	0.2930	0.52	1.00	3.60	353.0	15.0	299.4	2.0	0	0.00	79.	996.	4	NAD-SFC	NoSubs
8	8	21	234	21	-34.3	0.355	-9.000	-9.000	-999.	508.	115.7	0.2930	0.52	1.00	3.60	331.0	15.0	298.2	2.0	0	0.00	84.	996.	4	NAD-SFC	NoSubs
8	8	21	234	22	-32.0	0.348	-9.000	-9.000	-999.	492.	116.5	0.2720	0.52	1.00	3.60	316.0	15.0	297.6	2.0	0	0.00	85.	996.	5	NAD-SFC	NoSubs
8	8	21	234	23	-28.9	0.297	-9.000	-9.000	-999.	390.	80.7	0.2720	0.52	1.00	3.10	326.0	15.0	297.1	2.0	0	0.00	86.	997.	4	NAD-SFC	NoSubs
8	8	21	234	24	-28.1	0.304	-9.000	-9.000	-999.	402.	88.7	0.2930	0.52	1.00	3.10	334.0	15.0	296.6	2.0	0	0.00	86.	997.	5	NAD-SFC	NoSubs
8	8	22	235	1	-27.6	0.297	-9.000	-9.000	-999.	389.	84.8	0.2720	0.52	1.00	3.10	329.0	15.0	296.1	2.0	0	0.00	87.	997.	5	NAD-SFC	NoSubs
8	8	22	235	2	-28.2	0.304	-9.000	-9.000	-999.	402.	88.4	0.2930	0.52	1.00	3.10	339.0	15.0	295.5	2.0	0	0.00	89.	997.	5	NAD-SFC	NoSubs
8	8	22	235	3	-28.4	0.304	-9.000	-9.000	-999.	403.	88.3	0.2940	0.52	1.00	3.10	4.0	15.0	294.8	2.0	0	0.00	90.	998.	5	NAD-SFC	NoSubs
8	8	22	235	4	-29.9	0.304	-9.000	-9.000	-999.	402.	83.6	0.2940	0.52	1.00	3.10	1.0	15.0	293.9	2.0	0	0.00	91.	998.	4	NAD-SFC	NoSubs
8	8	22	235	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	293.2	2.0	0	0.00	92.	999.	4	NAD-SFC	NoSubs
8	8	22	235	6	-24.7	0.252	-9.000	-9.000	-999.	304.	58.1	0.2940	0.52	0.73	2.60	2.0	15.0	292.9	2.0	0	0.00	91.	999.	4	NAD-SFC	NoSubs
8	8	22	235	7	16.8	0.241	0.409	0.006	145.	284.	-74.4	0.2940	0.52	0.35	2.10	3.0	15.0	293.1	2.0	0	0.00	88.	1000.	4	NAD-SFC	NoSubs
8	8	22	235	8	62.8	0.211	0.786	0.006	276.	233.	-13.3	0.2930	0.52	0.24	1.50	352.0	15.0	293.8	2.0	0	0.00	84.	1000.	4	NAD-SFC	NoSubs
8	8	22	235	9	105.2	0.101	1.079	0.005	426.	84.	-1.0	0.1750	0.52	0.20	0.50	266.0	15.0	295.0	2.0	0	0.00	76.	1000.	3	NAD-SFC	NoSubs
8	8	22	235	10	139.3	-9.000	-9.000	-9.000	656.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.5	2.0	0	0.00	68.	999.	3	NAD-SFC	NoSubs
8	8	22	235	11	162.9	-9.000	-9.000	-9.000	836.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.4	2.0	0	0.00	64.	999.	3	NAD-SFC	NoSubs
8	8	22	235	12	175.1	-9.000	-9.000	-9.000	984.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.1	2.0	0	0.00	59.	997.	3	NAD-SFC	NoSubs
8	8	22	235	13	175.8	-9.000	-9.000	-9.000	1055.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.6	2.0	0	0.00	54.	997.	3	NAD-SFC	NoSubs
8	8	22	235	14	165.1	0.119	1.731	0.011	1118.	98.	-1.0	0.2720	0.52	0.19	0.50	311.0	15.0	303.8	2.0	0	0.00	51.	996.	3	NAD-SFC	NoSubs
8	8	22	235	15	142.8	0.117	1.675	0.011	1170.	96.	-1.0	0.2720	0.52	0.19	0.50	328.0	15.0	304.4	2.0	0	0.00	49.	996.	3	NAD-SFC	NoSubs
8	8	22	235	16	110.5	0.174	1.555	0.011	1210.	174.	-4.2	0.2930	0.52	0.20	1.00	344.0	15.0	305.6	2.0	0	0.00	45.	995.	3	NAD-SFC	NoSubs
8	8	22	235	17	68.7	0.213	1.336	0.011	1233.	236.	-12.5	0.2930	0.52	0.24	1.50	358.0	15.0	305.6	2.0	0	0.00	48.	995.	3	NAD-SFC	NoSubs
8	8	22	235	18	21.5	0.291	0.909	0.011	1239.	377.	-101.9	0.2940	0.52	0.35	2.60	12.0	15.0	305.1	2.0	0	0.00	54.	996.	3	NAD-SFC	NoSubs
8	8	22	235	19	-29.3	0.304	-9.000	-9.000	-999.	402.	84.8	0.2930	0.52	0.72	3.10	335.0	15.0	304.1	2.0	0	0.00	58.	996.	3	NAD-SFC	NoSubs
8	8	22	235	20	-46.6	0.468	-9.000	-9.000	-999.	768.	195.3	0.2160	0.52	1.00	5.10	280.0	15.0	300.8	2.0	0	0.00	70.	997.	3	NAD-SFC	NoSubs
8	8	22	235	21	-47.2	0.468	-9.000	-9.000	-999.	768.	193.2	0.2160	0.52	1.00	5.10	282.0	15.0	297.5	2.0	0	0.00	75.	998.	3	NAD-SFC	NoSubs
8	8	22	235	22	-42.5	0.420	-9.000	-9.000	-999.	656.	155.2	0.2160	0.52	1.00	4.60	285.0	15.0	296.4	2.0	0	0.00	77.	998.	3	NAD-SFC	NoSubs

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 8   8 22 235 23   -33.0  0.325 -9.000 -9.000 -999.  452.     92.9  0.2160  0.52  1.00   3.60  278.0  15.0  295.5   2.0    0   0.00   80.   998.     3 NAD-SFC NoSubs
 8   8 22 235 24   -21.5  0.231 -9.000 -9.000 -999.  271.     51.1  0.2160  0.52  1.00   2.60  285.0  15.0  294.8   2.0    0   0.00   82.   999.     4 NAD-SFC NoSubs
 8   8 23 236  1    -6.9  0.129 -9.000 -9.000 -999.  116.     27.4  0.2160  0.52  1.00   1.50  294.0  15.0  294.4   2.0    0   0.00   82.   999.     4 NAD-SFC NoSubs
 8   8 23 236  2    -7.7  0.137 -9.000 -9.000 -999.  121.     29.8  0.2720  0.52  1.00   1.50  305.0  15.0  294.1   2.0    0   0.00   82.  1000.     4 NAD-SFC NoSubs
 8   8 23 236  3    -6.9  0.129 -9.000 -9.000 -999.  111.     27.4  0.2160  0.52  1.00   1.50  299.0  15.0  293.9   2.0    0   0.00   81.  1000.     4 NAD-SFC NoSubs
 8   8 23 236  4    -6.9  0.129 -9.000 -9.000 -999.  111.     27.4  0.2160  0.52  1.00   1.50  297.0  15.0  293.8   2.0    0   0.00   81.  1001.     4 NAD-SFC NoSubs
 8   8 23 236  5   -15.7  0.196 -9.000 -9.000 -999.  208.     42.6  0.2720  0.52  1.00   2.10  314.0  15.0  293.4   2.0    0   0.00   81.  1001.     3 NAD-SFC NoSubs
 8   8 23 236  6   -15.7  0.196 -9.000 -9.000 -999.  208.     42.7  0.2720  0.52  0.73   2.10  322.0  15.0  293.2   2.0    0   0.00   81.  1002.     3 NAD-SFC NoSubs
 8   8 23 236  7    15.7  0.236  0.376  0.007  121.  275.    -74.7  0.2720  0.52  0.35   2.10  327.0  15.0  294.2   2.0    0   0.00   76.  1002.     3 NAD-SFC NoSubs
 8   8 23 236  8    63.0  0.106  0.776  0.007  265.   95.     -1.7  0.2930  0.52  0.24   0.50  340.0  15.0  295.6   2.0    0   0.00   72.  1001.     3 NAD-SFC NoSubs
 8   8 23 236  9   105.5 -9.000 -9.000 -9.000  457. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  297.1   2.0    0   0.00   68.  1001.     3 NAD-SFC NoSubs
 8   8 23 236 10   139.2 -9.000 -9.000 -9.000  632. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  298.9   2.0    0   0.00   64.  1000.     2 NAD-SFC NoSubs
 8   8 23 236 11   163.0 -9.000 -9.000 -9.000  762. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  300.8   2.0    0   0.00   59.  1000.     2 NAD-SFC NoSubs
 8   8 23 236 12   175.4 -9.000 -9.000 -9.000  877. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  302.5   2.0    0   0.00   54.   999.     2 NAD-SFC NoSubs
 8   8 23 236 13   176.1 -9.000 -9.000 -9.000  979. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  304.0   2.0    0   0.00   47.   998.     2 NAD-SFC NoSubs
 8   8 23 236 14   165.3  0.119  1.697  0.010 1053.   98.     -1.0  0.2720  0.52  0.19   0.50  307.0  15.0  305.1   2.0    0   0.00   43.   997.     2 NAD-SFC NoSubs
 8   8 23 236 15   142.7  0.180  1.645  0.009 1112.  183.     -3.6  0.2930  0.52  0.19   1.00  330.0  15.0  305.8   2.0    0   0.00   40.   997.     2 NAD-SFC NoSubs
 8   8 23 236 16   109.3  0.225  1.525  0.009 1155.  255.     -9.2  0.2930  0.52  0.20   1.50  359.0  15.0  305.9   2.0    0   0.00   40.   997.     2 NAD-SFC NoSubs
 8   8 23 236 17    66.9  0.269  1.304  0.009 1180.  335.    -25.9  0.2940  0.52  0.24   2.10   10.0  15.0  305.6   2.0    0   0.00   48.   996.     2 NAD-SFC NoSubs
 8   8 23 236 18    20.4  0.337  0.880  0.009 1186.  470.   -167.2  0.2940  0.52  0.35   3.10   25.0  15.0  304.8   2.0    0   0.00   54.   997.     3 NAD-SFC NoSubs
 8   8 23 236 19   -34.7  0.355 -9.000 -9.000 -999.  508.    114.9  0.2940  0.52  0.73   3.60    4.0  15.0  303.6   2.0    0   0.00   58.   997.     3 NAD-SFC NoSubs
 8   8 23 236 20   -46.6  0.468 -9.000 -9.000 -999.  768.    195.5  0.2160  0.52  1.00   5.10  286.0  15.0  301.0   2.0    0   0.00   66.   998.     3 NAD-SFC NoSubs
 8   8 23 236 21   -47.2  0.468 -9.000 -9.000 -999.  768.    193.2  0.2160  0.52  1.00   5.10  279.0  15.0  297.5   2.0    0   0.00   72.   998.     3 NAD-SFC NoSubs
 8   8 23 236 22   -37.8  0.373 -9.000 -9.000 -999.  553.    122.1  0.2160  0.52  1.00   4.10  279.0  15.0  296.2   2.0    0   0.00   73.   998.     3 NAD-SFC NoSubs
 8   8 23 236 23   -33.1  0.325 -9.000 -9.000 -999.  447.     92.8  0.2160  0.52  1.00   3.60  288.0  15.0  295.4   2.0    0   0.00   75.   999.     3 NAD-SFC NoSubs
 8   8 23 236 24   -21.9  0.231 -9.000 -9.000 -999.  271.     50.0  0.2160  0.52  1.00   2.60  296.0  15.0  295.0   2.0    0   0.00   75.   999.     3 NAD-SFC NoSubs
 8   8 24 237  1    -7.8  0.137 -9.000 -9.000 -999.  125.     29.2  0.2720  0.52  1.00   1.50  320.0  15.0  294.8   2.0    0   0.00   74.   999.     3 NAD-SFC NoSubs
 8   8 24 237  2    -1.6  0.083 -9.000 -9.000 -999.   58.     31.6  0.2940  0.52  1.00   0.50    2.0  15.0  294.6   2.0    0   0.00   74.  1000.     3 NAD-SFC NoSubs
 8   8 24 237  3    -1.4  0.079 -9.000 -9.000 -999.   53.     30.8  0.1970  0.52  1.00   0.50  126.0  15.0  294.4   2.0    0   0.00   74.  1000.     3 NAD-SFC NoSubs
 8   8 24 237  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  294.2   2.0    0   0.00   74.  1000.     3 NAD-SFC NoSubs
 8   8 24 237  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  293.8   2.0    0   0.00   77.  1000.     2 NAD-SFC NoSubs
 8   8 24 237  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.74   0.00    0.0  15.0  293.5   2.0    0   0.00   80.  1001.     2 NAD-SFC NoSubs
 8   8 24 237  7    13.9  0.136  0.323  0.008   86.  121.    -16.4  0.2930  0.52  0.36   1.00  360.0  15.0  294.4   2.0    0   0.00   76.  1001.     2 NAD-SFC NoSubs
 8   8 24 237  8    61.7  0.106  0.779  0.007  273.   83.     -1.7  0.2940  0.52  0.24   0.50    4.0  15.0  295.9   2.0    0   0.00   73.  1000.     2 NAD-SFC NoSubs
 8   8 24 237  9   104.8 -9.000 -9.000 -9.000  429. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  297.6   2.0    0   0.00   69.  1000.     2 NAD-SFC NoSubs
 8   8 24 237 10   139.0 -9.000 -9.000 -9.000  601. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  299.4   2.0    0   0.00   65.   999.     2 NAD-SFC NoSubs
 8   8 24 237 11   162.8 -9.000 -9.000 -9.000  763. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  301.2   2.0    0   0.00   59.   999.     2 NAD-SFC NoSubs
 8   8 24 237 12   175.1 -9.000 -9.000 -9.000  910. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  303.0   2.0    0   0.00   53.   998.     2 NAD-SFC NoSubs
 8   8 24 237 13   175.8  0.120  1.704  0.012 1003.  100.     -1.0  0.2720  0.52  0.19   0.50  322.0  15.0  304.4   2.0    0   0.00   47.   997.     2 NAD-SFC NoSubs
 8   8 24 237 14   164.8  0.180  1.698  0.012 1056.  183.     -3.1  0.2720  0.52  0.19   1.00  327.0  15.0  305.5   2.0    0   0.00   43.   996.     2 NAD-SFC NoSubs
 8   8 24 237 15   142.1  0.231  1.637  0.011 1099.  267.     -7.7  0.2930  0.52  0.19   1.50  345.0  15.0  306.0   2.0    0   0.00   41.   996.     2 NAD-SFC NoSubs
 8   8 24 237 16   108.7  0.328  1.512  0.011 1131.  451.    -28.9  0.2930  0.52  0.21   2.60  353.0  15.0  306.2   2.0    0   0.00   42.   995.     2 NAD-SFC NoSubs
 8   8 24 237 17    66.0 -9.000 -9.000 -9.000 1149. -999. -99999.0  0.2235  0.52  0.24   0.00    0.0  15.0  305.8   2.0    0   0.00   51.   995.     2 NAD-SFC NoSubs
 8   8 24 237 18    18.3  0.336  0.841  0.011 1154.  467.   -183.2  0.2940  0.52  0.36   3.10    6.0  15.0  305.1   2.0    0   0.00   56.   995.     2 NAD-SFC NoSubs
 8   8 24 237 19   -30.6  0.304 -9.000 -9.000 -999.  402.     81.3  0.2940  0.52  0.75   3.10    9.0  15.0  303.8   2.0    0   0.00   60.   996.     2 NAD-SFC NoSubs
 8   8 24 237 20    -8.1  0.140 -9.000 -9.000 -999.  148.     30.1  0.2930  0.52  1.00   1.50  347.0  15.0  302.8   2.0    0   0.00   63.   996.     2 NAD-SFC NoSubs
 8   8 24 237 21   -33.2  0.325 -9.000 -9.000 -999.  446.     92.3  0.2160  0.52  1.00   3.60  281.0  15.0  301.4   2.0    0   0.00   66.   996.     2 NAD-SFC NoSubs
 8   8 24 237 22   -43.2  0.420 -9.000 -9.000 -999.  653.    152.2  0.2160  0.52  1.00   4.60  278.0  15.0  298.4   2.0    0   0.00   72.   996.     2 NAD-SFC NoSubs
 8   8 24 237 23   -33.7  0.325 -9.000 -9.000 -999.  451.     90.9  0.2160  0.52  1.00   3.60  278.0  15.0  297.2   2.0    0   0.00   71.   997.     2 NAD-SFC NoSubs
 8   8 24 237 24   -30.7  0.297 -9.000 -9.000 -999.  388.     75.5  0.2720  0.52  1.00   3.10  303.0  15.0  297.0   2.0    0   0.00   70.   997.     2 NAD-SFC NoSubs
 8   8 25 238  1   -36.0  0.347 -9.000 -9.000 -999.  490.    103.1  0.2720  0.52  1.00   3.60  323.0  15.0  296.5   2.0    0   0.00   74.   997.     2 NAD-SFC NoSubs
 8   8 25 238  2   -31.5  0.303 -9.000 -9.000 -999.  402.     78.5  0.2930  0.52  1.00   3.10  332.0  15.0  295.8   2.0    0   0.00   81.   997.     2 NAD-SFC NoSubs
 8   8 25 238  3   -16.4  0.200 -9.000 -9.000 -999.  220.     43.4  0.2930  0.52  1.00   2.10  342.0  15.0  295.1   2.0    0   0.00   85.   997.     2 NAD-SFC NoSubs
 8   8 25 238  4    -8.2  0.140 -9.000 -9.000 -999.  126.     29.7  0.2930  0.52  1.00   1.50  330.0  15.0  294.5   2.0    0   0.00   87.   997.     2 NAD-SFC NoSubs
 8   8 25 238  5    -7.9  0.137 -9.000 -9.000 -999.  122.     28.8  0.2720  0.52  1.00   1.50  328.0  15.0  294.0   2.0    0   0.00   88.   997.     2 NAD-SFC NoSubs
 8   8 25 238  6    -3.9  0.100 -9.000 -9.000 -999.   77.     23.3  0.2720  0.52  0.75   1.00  317.0  15.0  293.5   2.0    0   0.00   89.   998.     2 NAD-SFC NoSubs
 8   8 25 238  7    13.2  0.182  0.355  0.011  121.  187.    -40.9  0.2930  0.52  0.36   1.50  351.0  15.0  293.9   2.0    0   0.00   82.   998.     2 NAD-SFC NoSubs
 8   8 25 238  8    61.0  0.210  0.705  0.010  205.  232.    -13.6  0.2930  0.52  0.24   1.50  354.0  15.0  295.4   2.0    0   0.00   75.   998.     2 NAD-SFC NoSubs
 8   8 25 238  9   104.2  0.173  0.963  0.008  305.  172.     -4.4  0.2930  0.52  0.21   1.00  346.0  15.0  297.4   2.0    0   0.00   68.   997.     2 NAD-SFC NoSubs
 8   8 25 238 10   138.5 -9.000 -9.000 -9.000  420. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  299.5   2.0    0   0.00   61.   997.     2 NAD-SFC NoSubs
 8   8 25 238 11   162.2 -9.000 -9.000 -9.000  619. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  301.2   2.0    0   0.00   57.   997.     2 NAD-SFC NoSubs
 8   8 25 238 12   174.4 -9.000 -9.000 -9.000  795. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  302.8   2.0    0   0.00   52.   996.     2 NAD-SFC NoSubs
 8   8 25 238 13   175.0  0.184  1.669  0.014  943.  190.     -3.2  0.2930  0.52  0.19   1.00  338.0  15.0  304.1   2.0    0   0.00   49.   995.     2 NAD-SFC NoSubs
 8   8 25 238 14   163.9  0.294  1.671  0.014 1010.  383.    -13.8  0.2930  0.52  0.19   2.10  352.0  15.0  305.0   2.0    0   0.00   47.   994.     2 NAD-SFC NoSubs
 8   8 25 238 15   141.0  0.429  1.610  0.014 1050.  674.    -49.5  0.2930  0.52  0.19   3.60  348.0  15.0  305.4   2.0    0   0.00   46.   994.     2 NAD-SFC NoSubs
 8   8 25 238 16   107.3  0.466  1.483  0.013 1079.  762.    -83.5  0.2930  0.52  0.21   4.10  356.0  15.0  305.2   2.0    0   0.00   48.   994.     2 NAD-SFC NoSubs
 8   8 25 238 17    64.5  0.360  1.258  0.013 1096.  527.    -64.4  0.2940  0.52  0.24   3.10    4.0  15.0  304.8   2.0    0   0.00   58.   994.     2 NAD-SFC NoSubs
 8   8 25 238 18    16.8  0.334  0.804  0.013 1100.  464.   -197.2  0.2930  0.52  0.36   3.10  356.0  15.0  304.0   2.0    0   0.00   60.   994.     2 NAD-SFC NoSubs
 8   8 25 238 19   -35.9  0.355 -9.000 -9.000 -999.  507.    110.2  0.2930  0.52  0.76   3.60  336.0  15.0  302.9   2.0    0   0.00   62.   994.     2 NAD-SFC NoSubs
 8   8 25 238 20   -40.4  0.406 -9.000 -9.000 -999.  621.    147.1  0.2930  0.52  1.00   4.10  345.0  15.0  300.6   2.0    0   0.00   70.   995.     3 NAD-SFC NoSubs
 8   8 25 238 21   -35.5  0.355 -9.000 -9.000 -999.  509.    111.5  0.2930  0.52  1.00   3.60  341.0  15.0  298.8   2.0    0   0.00   77.   995.     3 NAD-SFC NoSubs
 8   8 25 238 22   -30.4  0.303 -9.000 -9.000 -999.  402.     81.4  0.2930  0.52  1.00   3.10  334.0  15.0  298.0   2.0    0   0.00   81.   995.     3 NAD-SFC NoSubs
 8   8 25 238 23   -29.9  0.297 -9.000 -9.000 -999.  388.     77.7  0.2720  0.52  1.00   3.10  320.0  15.0  297.2   2.0    0   0.00   83.   996.     3 NAD-SFC NoSubs
 8   8 25 238 24   -30.7  0.303 -9.000 -9.000 -999.  401.     80.8  0.2930  0.52  1.00   3.10  334.0  15.0  296.2   2.0    0   0.00   86.   996.     3 NAD-SFC NoSubs
 8   8 26 239  1   -30.7  0.303 -9.000 -9.000 -999.  401.     80.6  0.2930  0.52  1.00   3.10  345.0  15.0  295.5   2.0    0   0.00   87.   996.     3 NAD-SFC NoSubs
 8   8 26 239  2   -30.8  0.303 -9.000 -9.000 -999.  401.     80.4  0.2930  0.52  1.00   3.10  341.0  15.0  294.8   2.0    0   0.00   86.   996.     3 NAD-SFC NoSubs
 8   8 26 239  3   -25.2  0.252 -9.000 -9.000 -999.  304.     56.2  0.2930  0.52  1.00   2.60  352.0  15.0  294.2   2.0    0   0.00   86.   997.     3 NAD-SFC NoSubs
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 8   8 26 239   4   -25.3   0.252  -9.000  -9.000  -999.   303.      56.2  0.2930   0.52   1.00    2.60   354.0   15.0   293.6   2.0    0   0.00   86.   997.     3 NAD-SFC NoSubs
 8   8 26 239   5  -999.0  -9.000  -9.000  -9.000  -999.  -999.  -99999.0  0.2235   0.52   1.00    0.00     0.0   15.0   293.1   2.0    0   0.00   86.   997.     3 NAD-SFC NoSubs
 8   8 26 239   6    -8.1   0.140  -9.000  -9.000  -999.   126.      30.0  0.2940   0.52   0.76    1.50     9.0   15.0   292.8   2.0    0   0.00   85.   998.     3 NAD-SFC NoSubs
 8   8 26 239   7    13.7   0.285   0.378   0.007   140.   364.    -149.3  0.2940   0.52   0.36    2.60    15.0   15.0   293.1   2.0    0   0.00   76.   998.     3 NAD-SFC NoSubs
 8   8 26 239   8    61.0   0.211   0.775   0.008   272.   234.     -13.6  0.2940   0.52   0.24    1.50    20.0   15.0   294.2   2.0    0   0.00   70.   998.     3 NAD-SFC NoSubs
 8   8 26 239   9   103.0  -9.000  -9.000  -9.000   395.  -999.  -99999.0  0.2235   0.52   0.21    0.00     0.0   15.0   295.8   2.0    0   0.00   66.   998.     2 NAD-SFC NoSubs
 8   8 26 239  10   137.2  -9.000  -9.000  -9.000   583.  -999.  -99999.0  0.2235   0.52   0.19    0.00     0.0   15.0   297.4   2.0    0   0.00   63.   998.     2 NAD-SFC NoSubs
 8   8 26 239  11   160.7  -9.000  -9.000  -9.000   737.  -999.  -99999.0  0.2235   0.52   0.19    0.00     0.0   15.0   298.9   2.0    0   0.00   59.   998.     2 NAD-SFC NoSubs
 8   8 26 239  12   172.7   0.122   1.614   0.012   867.   102.      -1.0  0.2930   0.52   0.19    0.50   352.0   15.0   300.2   2.0    0   0.00   56.   997.     2 NAD-SFC NoSubs
 8   8 26 239  13   173.0  -9.000  -9.000  -9.000   976.  -999.  -99999.0  0.2235   0.52   0.19    0.00     0.0   15.0   301.2   2.0    0   0.00   54.   996.     2 NAD-SFC NoSubs
 8   8 26 239  14   161.7   0.294   1.672   0.013  1028.   382.     -13.9  0.2940   0.52   0.19    2.10    15.0   15.0   302.0   2.0    0   0.00   52.   995.     2 NAD-SFC NoSubs
 8   8 26 239  15   138.7   0.336   1.610   0.012  1069.   468.     -24.4  0.2940   0.52   0.20    2.60    16.0   15.0   302.4   2.0    0   0.00   51.   995.     2 NAD-SFC NoSubs
 8   8 26 239  16   104.8   0.420   1.480   0.012  1100.   652.     -62.5  0.2940   0.52   0.21    3.60    20.0   15.0   302.2   2.0    0   0.00   53.   995.     2 NAD-SFC NoSubs
 8   8 26 239  17    62.1   0.346   1.250   0.012  1117.   492.     -59.1  0.2470   0.52   0.24    3.10    32.0   15.0   301.9   2.0    0   0.00   60.   995.     2 NAD-SFC NoSubs
 8   8 26 239  18    14.4   0.319   0.768   0.012  1120.   433.    -201.1  0.2470   0.52   0.37    3.10    39.0   15.0   301.1   2.0    0   0.00   65.   995.     2 NAD-SFC NoSubs
 8   8 26 239  19   -23.0   0.240  -9.000  -9.000  -999.   284.      53.1  0.2470   0.52   1.00    2.60    52.0   15.0   299.9   2.0    0   0.00   68.   995.     3 NAD-SFC NoSubs
 8   8 26 239  20    -1.4   0.079  -9.000  -9.000  -999.    85.      30.8  0.2090   0.52   1.00    0.50    64.0   15.0   299.0   2.0    0   0.00   71.   996.     3 NAD-SFC NoSubs
 8   8 26 239  21    -1.4   0.077  -9.000  -9.000  -999.    52.      30.4  0.1750   0.52   1.00    0.50   244.0   15.0   298.1   2.0    0   0.00   75.   996.     3 NAD-SFC NoSubs
 8   8 26 239  22   -12.8   0.173  -9.000  -9.000  -999.   173.      36.3  0.1750   0.52   1.00    2.10   259.0   15.0   297.6   2.0    0   0.00   76.   997.     3 NAD-SFC NoSubs
 8   8 26 239  23   -32.9   0.326  -9.000  -9.000  -999.   446.      93.2  0.2160   0.52   1.00    3.60   271.0   15.0   296.5   2.0    0   0.00   76.   997.     3 NAD-SFC NoSubs
 8   8 26 239  24   -28.9   0.278  -9.000  -9.000  -999.   353.      66.0  0.2160   0.52   1.00    3.10   274.0   15.0   295.4   2.0    0   0.00   74.   997.     2 NAD-SFC NoSubs
 8   8 27 240   1   -22.1   0.231  -9.000  -9.000  -999.   267.      49.3  0.2160   0.52   1.00    2.60   286.0   15.0   294.8   2.0    0   0.00   73.   997.     2 NAD-SFC NoSubs
 8   8 27 240   2    -7.1   0.129  -9.000  -9.000  -999.   116.      26.6  0.2160   0.52   1.00    1.50   292.0   15.0   294.4   2.0    0   0.00   73.   997.     2 NAD-SFC NoSubs
 8   8 27 240   3   -15.8   0.195  -9.000  -9.000  -999.   207.      42.0  0.2720   0.52   1.00    2.10   301.0   15.0   294.2   2.0    0   0.00   74.   998.     2 NAD-SFC NoSubs
 8   8 27 240   4   -24.7   0.246  -9.000  -9.000  -999.   293.      53.8  0.2720   0.52   1.00    2.60   314.0   15.0   293.9   2.0    0   0.00   78.   998.     2 NAD-SFC NoSubs
 8   8 27 240   5   -25.6   0.252  -9.000  -9.000  -999.   303.      55.4  0.2930   0.52   1.00    2.60   331.0   15.0   293.5   2.0    0   0.00   82.   998.     2 NAD-SFC NoSubs
 8   8 27 240   6   -24.7   0.246  -9.000  -9.000  -999.   293.      53.7  0.2720   0.52   0.77    2.60   327.0   15.0   293.1   2.0    0   0.00   83.   999.     2 NAD-SFC NoSubs
 8   8 27 240   7    11.8   0.232   0.327   0.007   105.   268.     -94.0  0.2720   0.52   0.36    2.10   325.0   15.0   292.9   2.0    0   0.00   83.  1000.     2 NAD-SFC NoSubs
 8   8 27 240   8    59.6   0.210   0.704   0.007   209.   231.     -13.8  0.2930   0.52   0.24    1.50   331.0   15.0   294.2   2.0    0   0.00   72.  1000.     2 NAD-SFC NoSubs
 8   8 27 240   9   102.9  -9.000  -9.000  -9.000   342.  -999.  -99999.0  0.2235   0.52   0.21    0.00     0.0   15.0   296.6   2.0    0   0.00   62.  1000.     2 NAD-SFC NoSubs
 8   8 27 240  10   137.1  -9.000  -9.000  -9.000   593.  -999.  -99999.0  0.2235   0.52   0.20    0.00     0.0   15.0   298.5   2.0    0   0.00   57.  1000.     2 NAD-SFC NoSubs
 8   8 27 240  11   160.8  -9.000  -9.000  -9.000   742.  -999.  -99999.0  0.2235   0.52   0.19    0.00     0.0   15.0   300.2   2.0    0   0.00   53.   999.     2 NAD-SFC NoSubs
 8   8 27 240  12   172.8  -9.000  -9.000  -9.000   846.  -999.  -99999.0  0.2235   0.52   0.19    0.00     0.0   15.0   301.8   2.0    0   0.00   49.   998.     2 NAD-SFC NoSubs
 8   8 27 240  13   173.2  -9.000  -9.000  -9.000   939.  -999.  -99999.0  0.2235   0.52   0.19    0.00     0.0   15.0   303.0   2.0    0   0.00   46.   998.     2 NAD-SFC NoSubs
 8   8 27 240  14   162.0  -9.000  -9.000  -9.000  1007.  -999.  -99999.0  0.2235   0.52   0.19    0.00     0.0   15.0   304.1   2.0    0   0.00   42.   997.     2 NAD-SFC NoSubs
 8   8 27 240  15   139.0   0.118   1.603   0.011  1055.    97.      -1.1  0.2930   0.52   0.20    0.50   334.0   15.0   304.8   2.0    0   0.00   40.   996.     2 NAD-SFC NoSubs
 8   8 27 240  16   105.6   0.173   1.479   0.011  1090.   172.      -4.3  0.2930   0.52   0.21    1.00   352.0   15.0   305.4   2.0    0   0.00   37.   996.     2 NAD-SFC NoSubs
 8   8 27 240  17    62.7   0.211   1.251   0.011  1110.   233.     -13.3  0.2930   0.52   0.24    1.50   359.0   15.0   305.1   2.0    0   0.00   43.   995.     2 NAD-SFC NoSubs
 8   8 27 240  18    15.1   0.239   0.779   0.011  1114.   281.     -80.8  0.2940   0.52   0.37    2.10     9.0   15.0   304.5   2.0    0   0.00   47.   996.     2 NAD-SFC NoSubs
 8   8 27 240  19   -16.2   0.200  -9.000  -9.000  -999.   216.      44.1  0.2940   0.52   1.00    2.10    14.0   15.0   303.0   2.0    0   0.00   52.   996.     2 NAD-SFC NoSubs
 8   8 27 240  20  -999.0  -9.000  -9.000  -9.000  -999.  -999.  -99999.0  0.2235   0.52   1.00    0.00     0.0   15.0   301.4   2.0    0   0.00   58.   997.     2 NAD-SFC NoSubs
 8   8 27 240  21    -1.5   0.080  -9.000  -9.000  -999.    54.      31.1  0.2160   0.52   1.00    0.50   270.0   15.0   299.9   2.0    0   0.00   64.   997.     2 NAD-SFC NoSubs
 8   8 27 240  22   -22.0   0.231  -9.000  -9.000  -999.   266.      49.6  0.2160   0.52   1.00    2.60   282.0   15.0   298.6   2.0    0   0.00   68.   997.     2 NAD-SFC NoSubs
 8   8 27 240  23   -35.9   0.347  -9.000  -9.000  -999.   490.     103.4  0.2720   0.52   1.00    3.60   303.0   15.0   297.4   2.0    0   0.00   68.   998.     2 NAD-SFC NoSubs
 8   8 27 240  24   -30.8   0.297  -9.000  -9.000  -999.   389.      75.4  0.2720   0.52   1.00    3.10   306.0   15.0   296.4   2.0    0   0.00   67.   998.     2 NAD-SFC NoSubs
 8   8 28 241   1   -24.6   0.246  -9.000  -9.000  -999.   294.      54.0  0.2720   0.52   1.00    2.60   313.0   15.0   295.8   2.0    0   0.00   66.   998.     2 NAD-SFC NoSubs
 8   8 28 241   2    -7.9   0.137  -9.000  -9.000  -999.   128.      28.9  0.2720   0.52   1.00    1.50   313.0   15.0   295.2   2.0    0   0.00   66.   998.     2 NAD-SFC NoSubs
 8   8 28 241   3    -3.6   0.096  -9.000  -9.000  -999.    72.      22.4  0.2160   0.52   1.00    1.00   293.0   15.0   294.9   2.0    0   0.00   67.   998.     2 NAD-SFC NoSubs
 8   8 28 241   4    -3.6   0.096  -9.000  -9.000  -999.    72.      22.4  0.2160   0.52   1.00    1.00   284.0   15.0   294.2   2.0    0   0.00   69.   998.     2 NAD-SFC NoSubs
 8   8 28 241   5    -7.1   0.129  -9.000  -9.000  -999.   111.      26.6  0.2160   0.52   1.00    1.50   277.0   15.0   293.8   2.0    0   0.00   72.   998.     2 NAD-SFC NoSubs
 8   8 28 241   6    -7.2   0.129  -9.000  -9.000  -999.   111.      26.6  0.2160   0.52   1.00    1.50   290.0   15.0   293.2   2.0    0   0.00   75.   998.     2 NAD-SFC NoSubs
 8   8 28 241   7    11.6   0.132   0.263   0.010    56.   115.     -17.7  0.2720   0.52   0.37    1.00   300.0   15.0   293.9   2.0    0   0.00   74.   999.     2 NAD-SFC NoSubs
 8   8 28 241   8    59.6  -9.000  -9.000  -9.000   166.  -999.  -99999.0  0.2235   0.52   0.24    0.00     0.0   15.0   295.9   2.0    0   0.00   65.   999.     2 NAD-SFC NoSubs
 8   8 28 241   9   102.9  -9.000  -9.000  -9.000   309.  -999.  -99999.0  0.2235   0.52   0.21    0.00     0.0   15.0   298.0   2.0    0   0.00   59.   999.     2 NAD-SFC NoSubs
 8   8 28 241  10   137.3  -9.000  -9.000  -9.000   509.  -999.  -99999.0  0.2235   0.52   0.20    0.00     0.0   15.0   300.2   2.0    0   0.00   53.   998.     2 NAD-SFC NoSubs
 8   8 28 241  11   161.1  -9.000  -9.000  -9.000   704.  -999.  -99999.0  0.2235   0.52   0.19    0.00     0.0   15.0   302.0   2.0    0   0.00   49.   997.     2 NAD-SFC NoSubs
 8   8 28 241  12   173.3  -9.000  -9.000  -9.000   820.  -999.  -99999.0  0.2235   0.52   0.19    0.00     0.0   15.0   303.9   2.0    0   0.00   44.   996.     2 NAD-SFC NoSubs
 8   8 28 241  13   173.9  -9.000  -9.000  -9.000   923.  -999.  -99999.0  0.2235   0.52   0.19    0.00     0.0   15.0   305.5   2.0    0   0.00   39.   995.     2 NAD-SFC NoSubs
 8   8 28 241  14   162.8  -9.000  -9.000  -9.000   998.  -999.  -99999.0  0.2235   0.52   0.19    0.00     0.0   15.0   306.8   2.0    0   0.00   36.   994.     2 NAD-SFC NoSubs
 8   8 28 241  15   139.7   0.118   1.601   0.011  1044.    98.      -1.0  0.2930   0.52   0.20    0.50   341.0   15.0   307.2   2.0    0   0.00   34.   994.     2 NAD-SFC NoSubs
 8   8 28 241  16   105.9   0.224   1.477   0.011  1078.   255.      -9.4  0.2930   0.52   0.21    1.50   356.0   15.0   307.5   2.0    0   0.00   35.   993.     2 NAD-SFC NoSubs
 8   8 28 241  17    62.6  -9.000  -9.000  -9.000  1097.  -999.  -99999.0  0.2235   0.52   0.25    0.00     0.0   15.0   306.8   2.0    0   0.00   45.   993.     2 NAD-SFC NoSubs
 8   8 28 241  18    14.7   0.380   0.770   0.011  1100.   563.    -332.0  0.2940   0.52   0.38    3.60    13.0   15.0   305.6   2.0    0   0.00   50.   993.     2 NAD-SFC NoSubs
 8   8 28 241  19   -25.1   0.252  -9.000  -9.000  -999.   314.      56.6  0.2940   0.52   1.00    2.60    10.0   15.0   304.1   2.0    0   0.00   54.   994.     2 NAD-SFC NoSubs
 8   8 28 241  20    -1.4   0.080  -9.000  -9.000  -999.    96.      31.0  0.2160   0.52   1.00    0.50   294.0   15.0   302.6   2.0    0   0.00   59.   994.     2 NAD-SFC NoSubs
 8   8 28 241  21   -20.0   0.218  -9.000  -9.000  -999.   245.      46.2  0.1750   0.52   1.00    2.60   268.0   15.0   301.4   2.0    0   0.00   63.   994.     2 NAD-SFC NoSubs
 8   8 28 241  22   -35.5   0.347  -9.000  -9.000  -999.   490.     104.4  0.2720   0.52   1.00    3.60   303.0   15.0   300.2   2.0    0   0.00   64.   995.     2 NAD-SFC NoSubs
 8   8 28 241  23   -35.6   0.347  -9.000  -9.000  -999.   490.     104.0  0.2720   0.52   1.00    3.60   322.0   15.0   298.9   2.0    0   0.00   66.   995.     2 NAD-SFC NoSubs
 8   8 28 241  24   -31.2   0.303  -9.000  -9.000  -999.   402.      79.2  0.2930   0.52   1.00    3.10   355.0   15.0   298.0   2.0    0   0.00   67.   995.     2 NAD-SFC NoSubs
 8   8 29 242   1   -25.4   0.252  -9.000  -9.000  -999.   305.      55.8  0.2940   0.52   1.00    2.60    29.0   15.0   297.2   2.0    0   0.00   68.   995.     2 NAD-SFC NoSubs
 8   8 29 242   2   -15.0   0.190  -9.000  -9.000  -999.   200.      40.6  0.2470   0.52   1.00    2.10    59.0   15.0   296.8   2.0    0   0.00   69.   995.     2 NAD-SFC NoSubs
 8   8 29 242   3    -1.5   0.082  -9.000  -9.000  -999.    64.      31.5  0.2470   0.52   1.00    0.50    58.0   15.0   296.4   2.0    0   0.00   68.   996.     2 NAD-SFC NoSubs
 8   8 29 242   4  -999.0  -9.000  -9.000  -9.000  -999.  -999.  -99999.0  0.2235   0.52   1.00    0.00     0.0   15.0   295.6   2.0    0   0.00   72.   996.     2 NAD-SFC NoSubs
 8   8 29 242   5  -999.0  -9.000  -9.000  -9.000  -999.  -999.  -99999.0  0.2235   0.52   1.00    0.00     0.0   15.0   294.9   2.0    0   0.00   75.   996.     2 NAD-SFC NoSubs
 8   8 29 242   6  -999.0  -9.000  -9.000  -9.000  -999.  -999.  -99999.0  0.2235   0.52   1.00    0.00     0.0   15.0   294.4   2.0    0   0.00   76.   997.     2 NAD-SFC NoSubs
 8   8 29 242   7    11.4  -9.000  -9.000  -9.000    54.  -999.  -99999.0  0.2235   0.52   0.37    0.00     0.0   15.0   294.8   2.0    0   0.00   76.   997.     2 NAD-SFC NoSubs
 8   8 29 242   8    59.8   0.094   0.658   0.009   169.    69.      -1.2  0.1750   0.52   0.24    0.50   257.0   15.0   297.8   2.0    0   0.00   61.   997.     2 NAD-SFC NoSubs
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8	8	29	242	9	103.3	0.106	0.968	0.008	312.	83.	-1.0	0.2160	0.52	0.21	0.50	294.0	15.0	300.0	2.0	0	0.00	55.	996.	2	NAD-SFC	NoSubs
8	8	29	242	10	137.9	-9.000	-9.000	-9.000	488.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	302.5	2.0	0	0.00	46.	996.	2	NAD-SFC	NoSubs
8	8	29	242	11	161.8	-9.000	-9.000	-9.000	674.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	304.5	2.0	0	0.00	39.	995.	2	NAD-SFC	NoSubs
8	8	29	242	12	173.9	-9.000	-9.000	-9.000	819.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	306.1	2.0	0	0.00	34.	995.	2	NAD-SFC	NoSubs
8	8	29	242	13	174.4	0.122	1.667	0.013	944.	102.	-1.0	0.2930	0.52	0.19	0.50	332.0	15.0	307.4	2.0	0	0.00	31.	994.	2	NAD-SFC	NoSubs
8	8	29	242	14	163.0	0.121	1.667	0.012	1008.	101.	-1.0	0.2930	0.52	0.19	0.50	352.0	15.0	308.4	2.0	0	0.00	30.	993.	2	NAD-SFC	NoSubs
8	8	29	242	15	139.9	0.231	1.605	0.011	1048.	267.	-7.8	0.2940	0.52	0.20	1.50	7.0	15.0	308.9	2.0	0	0.00	29.	993.	2	NAD-SFC	NoSubs
8	8	29	242	16	105.7	0.282	1.476	0.011	1078.	359.	-18.7	0.2940	0.52	0.21	2.10	17.0	15.0	308.8	2.0	0	0.00	32.	992.	2	NAD-SFC	NoSubs
8	8	29	242	17	62.2	0.314	1.243	0.011	1093.	422.	-44.0	0.2940	0.52	0.25	2.60	24.0	15.0	307.8	2.0	0	0.00	43.	992.	2	NAD-SFC	NoSubs
8	8	29	242	18	14.5	0.332	0.766	0.011	1096.	460.	-224.5	0.2940	0.52	0.38	3.10	17.0	15.0	307.0	2.0	0	0.00	46.	992.	2	NAD-SFC	NoSubs
8	8	29	242	19	-8.0	0.140	-9.000	-9.000	-999.	163.	30.3	0.2940	0.52	1.00	1.50	2.0	15.0	305.6	2.0	0	0.00	49.	992.	2	NAD-SFC	NoSubs
8	8	29	242	20	-13.9	0.183	-9.000	-9.000	-999.	188.	39.1	0.2160	0.52	1.00	2.10	290.0	15.0	304.2	2.0	0	0.00	53.	993.	2	NAD-SFC	NoSubs
8	8	29	242	21	-42.5	0.420	-9.000	-9.000	-999.	654.	154.4	0.2160	0.52	1.00	4.60	288.0	15.0	302.8	2.0	0	0.00	55.	993.	2	NAD-SFC	NoSubs
8	8	29	242	22	-38.0	0.373	-9.000	-9.000	-999.	548.	120.5	0.2160	0.52	1.00	4.10	289.0	15.0	300.1	2.0	0	0.00	58.	993.	2	NAD-SFC	NoSubs
8	8	29	242	23	-35.5	0.347	-9.000	-9.000	-999.	491.	104.0	0.2720	0.52	1.00	3.60	307.0	15.0	299.0	2.0	0	0.00	56.	993.	2	NAD-SFC	NoSubs
8	8	29	242	24	-30.5	0.297	-9.000	-9.000	-999.	389.	75.8	0.2720	0.52	1.00	3.10	328.0	15.0	298.2	2.0	0	0.00	56.	993.	2	NAD-SFC	NoSubs
8	8	30	243	1	-31.3	0.303	-9.000	-9.000	-999.	401.	79.1	0.2940	0.52	1.00	3.10	18.0	15.0	297.2	2.0	0	0.00	58.	994.	2	NAD-SFC	NoSubs
8	8	30	243	2	-34.9	0.337	-9.000	-9.000	-999.	470.	97.6	0.2470	0.52	1.00	3.60	43.0	15.0	296.5	2.0	0	0.00	63.	994.	2	NAD-SFC	NoSubs
8	8	30	243	3	-15.0	0.190	-9.000	-9.000	-999.	214.	40.6	0.2470	0.52	1.00	2.10	54.0	15.0	296.0	2.0	0	0.00	66.	994.	2	NAD-SFC	NoSubs
8	8	30	243	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	295.6	2.0	0	0.00	67.	994.	2	NAD-SFC	NoSubs
8	8	30	243	5	-1.4	0.079	-9.000	-9.000	-999.	53.	30.8	0.1750	0.52	1.00	0.50	258.0	15.0	294.9	2.0	0	0.00	71.	994.	2	NAD-SFC	NoSubs
8	8	30	243	6	-3.9	0.100	-9.000	-9.000	-999.	76.	23.3	0.2720	0.52	1.00	1.00	303.0	15.0	294.4	2.0	0	0.00	74.	994.	2	NAD-SFC	NoSubs
8	8	30	243	7	10.8	0.231	0.276	0.011	69.	266.	-100.6	0.2720	0.52	0.37	2.10	322.0	15.0	294.6	2.0	0	0.00	77.	994.	2	NAD-SFC	NoSubs
8	8	30	243	8	58.7	0.210	0.690	0.011	199.	231.	-13.9	0.2930	0.52	0.24	1.50	345.0	15.0	296.2	2.0	0	0.00	73.	994.	2	NAD-SFC	NoSubs
8	8	30	243	9	102.1	-9.000	-9.000	-9.000	330.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	298.4	2.0	0	0.00	64.	994.	2	NAD-SFC	NoSubs
8	8	30	243	10	136.4	-9.000	-9.000	-9.000	456.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	300.5	2.0	0	0.00	54.	994.	2	NAD-SFC	NoSubs
8	8	30	243	11	160.2	-9.000	-9.000	-9.000	575.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.4	2.0	0	0.00	49.	993.	2	NAD-SFC	NoSubs
8	8	30	243	12	172.3	0.120	1.499	0.008	693.	99.	-1.0	0.2720	0.52	0.19	0.50	322.0	15.0	304.1	2.0	0	0.00	44.	992.	2	NAD-SFC	NoSubs
8	8	30	243	13	172.6	0.122	1.593	0.008	829.	102.	-1.0	0.2930	0.52	0.19	0.50	338.0	15.0	305.5	2.0	0	0.00	40.	991.	2	NAD-SFC	NoSubs
8	8	30	243	14	161.2	0.235	1.623	0.008	939.	274.	-7.2	0.2930	0.52	0.19	1.50	350.0	15.0	306.5	2.0	0	0.00	37.	991.	2	NAD-SFC	NoSubs
8	8	30	243	15	137.9	-9.000	-9.000	-9.000	1018.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	307.0	2.0	0	0.00	36.	990.	2	NAD-SFC	NoSubs
8	8	30	243	16	103.6	0.374	1.463	0.009	1069.	548.	-44.5	0.2940	0.52	0.21	3.10	6.0	15.0	306.8	2.0	0	0.00	38.	990.	2	NAD-SFC	NoSubs
8	8	30	243	17	60.2	0.313	1.232	0.009	1097.	422.	-45.0	0.2940	0.52	0.25	2.60	8.0	15.0	306.2	2.0	0	0.00	49.	990.	2	NAD-SFC	NoSubs
8	8	30	243	18	12.7	0.331	0.734	0.009	1102.	456.	-251.5	0.2930	0.52	0.39	3.10	337.0	15.0	305.6	2.0	0	0.00	50.	990.	2	NAD-SFC	NoSubs
8	8	30	243	19	-37.4	0.373	-9.000	-9.000	-999.	546.	122.3	0.2160	0.52	1.00	4.10	295.0	15.0	304.4	2.0	0	0.00	51.	991.	2	NAD-SFC	NoSubs
8	8	30	243	20	-45.2	0.443	-9.000	-9.000	-999.	707.	170.1	0.1750	0.52	1.00	5.10	261.0	15.0	299.8	2.0	0	0.00	64.	992.	2	NAD-SFC	NoSubs
8	8	30	243	21	-45.6	0.443	-9.000	-9.000	-999.	708.	168.6	0.1750	0.52	1.00	5.10	265.0	15.0	297.2	2.0	0	0.00	71.	992.	2	NAD-SFC	NoSubs
8	8	30	243	22	-36.5	0.353	-9.000	-9.000	-999.	509.	106.7	0.1750	0.52	1.00	4.10	256.0	15.0	296.2	2.0	0	0.00	76.	992.	2	NAD-SFC	NoSubs
8	8	30	243	23	-36.5	0.353	-9.000	-9.000	-999.	503.	106.4	0.1750	0.52	1.00	4.10	256.0	15.0	295.5	2.0	0	0.00	80.	992.	2	NAD-SFC	NoSubs
8	8	30	243	24	-28.1	0.278	-9.000	-9.000	-999.	355.	67.8	0.2160	0.52	1.00	3.10	280.0	15.0	295.1	2.0	0	0.00	83.	993.	3	NAD-SFC	NoSubs
8	8	31	244	1	-21.8	0.231	-9.000	-9.000	-999.	267.	50.0	0.2160	0.52	1.00	2.60	280.0	15.0	294.9	2.0	0	0.00	83.	993.	3	NAD-SFC	NoSubs
8	8	31	244	2	-14.0	0.183	-9.000	-9.000	-999.	189.	39.0	0.2160	0.52	1.00	2.10	284.0	15.0	294.8	2.0	0	0.00	83.	993.	3	NAD-SFC	NoSubs
8	8	31	244	3	-7.0	0.129	-9.000	-9.000	-999.	111.	26.9	0.2160	0.52	1.00	1.50	288.0	15.0	294.4	2.0	0	0.00	84.	993.	3	NAD-SFC	NoSubs
8	8	31	244	4	-7.0	0.129	-9.000	-9.000	-999.	111.	26.9	0.2160	0.52	1.00	1.50	288.0	15.0	294.1	2.0	0	0.00	84.	994.	3	NAD-SFC	NoSubs
8	8	31	244	5	-3.8	0.100	-9.000	-9.000	-999.	76.	23.3	0.2720	0.52	1.00	1.00	314.0	15.0	293.8	2.0	0	0.00	85.	994.	3	NAD-SFC	NoSubs
8	8	31	244	6	-1.6	0.083	-9.000	-9.000	-999.	57.	31.7	0.2930	0.52	1.00	0.50	338.0	15.0	293.4	2.0	0	0.00	85.	994.	3	NAD-SFC	NoSubs
8	8	31	244	7	11.4	0.180	0.334	0.007	116.	183.	-45.7	0.2930	0.52	0.37	1.50	354.0	15.0	293.8	2.0	0	0.00	79.	995.	3	NAD-SFC	NoSubs
8	8	31	244	8	58.6	0.210	0.800	0.007	310.	230.	-13.9	0.2930	0.52	0.24	1.50	346.0	15.0	295.0	2.0	0	0.00	67.	995.	3	NAD-SFC	NoSubs
8	8	31	244	9	101.2	0.172	1.109	0.008	478.	171.	-4.4	0.2930	0.52	0.21	1.00	344.0	15.0	296.2	2.0	0	0.00	61.	995.	3	NAD-SFC	NoSubs
8	8	31	244	10	134.9	0.178	1.345	0.008	640.	181.	-3.7	0.2930	0.52	0.20	1.00	336.0	15.0	297.6	2.0	0	0.00	58.	995.	3	NAD-SFC	NoSubs
8	8	31	244	11	158.1	0.182	1.502	0.009	762.	186.	-3.4	0.2930	0.52	0.19	1.00	332.0	15.0	299.0	2.0	0	0.00	56.	995.	3	NAD-SFC	NoSubs
8	8	31	244	12	169.6	0.237	1.609	0.009	872.	276.	-6.9	0.2930	0.52	0.19	1.50	334.0	15.0	300.1	2.0	0	0.00	53.	994.	3	NAD-SFC	NoSubs
8	8	31	244	13	169.6	0.295	1.667	0.009	969.	385.	-13.4	0.2930	0.52	0.19	2.10	341.0	15.0	301.0	2.0	0	0.00	49.	994.	3	NAD-SFC	NoSubs
8	8	31	244	14	157.8	0.386	1.672	0.010	1050.	576.	-32.3	0.2930	0.52	0.19	3.10	353.0	15.0	301.5	2.0	0	0.00	47.	993.	3	NAD-SFC	NoSubs
8	8	31	244	15	134.4	0.519	1.615	0.010	1113.	896.	-92.0	0.2930	0.52	0.20	4.60	348.0	15.0	301.5	2.0	0	0.00	46.	993.	3	NAD-SFC	NoSubs
8	8	31	244	16	99.7	0.557	1.481	0.011	1157.	996.	-153.4	0.2930	0.52	0.21	5.10	348.0	15.0	301.1	2.0	0	0.00	45.	993.	2	NAD-SFC	NoSubs
8	8	31	244	17	56.0	0.449	1.230	0.011	1178.	734.	-143.6	0.2930	0.52	0.25	4.10	348.0	15.0	300.0	2.0	0	0.00	52.	994.	2	NAD-SFC	NoSubs
8	8	31	244	18	8.1	0.473	0.646	0.011	1178.	781.	-1160.0	0.2930	0.52	0.39	4.60	341.0	15.0	298.2	2.0	0	0.00	57.	995.	2	NAD-SFC	NoSubs
8	8	31	244	19	-47.4	0.457	-9.000	-9.000	-999.	743.	179.0	0.2930	0.52	1.00	4.60	332.0	15.0	295.9	2.0	0	0.00	65.	995.	2	NAD-SFC	NoSubs
8	8	31	244	20	-41.3	0.406	-9.000	-9.000	-999.	623.	144.1	0.2930	0.52	1.00	4.10	334.0	15.0	294.6	2.0	0	0.00	66.	996.	3	NAD-SFC	NoSubs
8	8	31	244	21	-35.4	0.347	-9.000	-9.000	-999.	493.	104.9	0.2720	0.52	1.00	3.60	329.0	15.0	293.8	2.0	0	0.00	66.	996.	3	NAD-SFC	NoSubs
8	8	31	244	22	-30.3	0.297	-9.000	-9.000	-999.	389.	76.6	0.2720	0.52	1.00	3.10	323.0	15.0	293.2	2.0	0	0.00	66.	997.	3	NAD-SFC	NoSubs
8	8	31	244	23	-24.4	0.246	-9.000	-9.000	-999.	294.	54.4	0.2720	0.52	1.00	2.60	312.0	15.0	292.8	2.0	0	0.00	65.	997.	3	NAD-SFC	NoSubs
8	8	31	244	24	-15.7	0.196	-9.000	-9.000	-999.	208.	42.5	0.2720	0.52	1.00	2.10	316.0	15.0	292.1	2.0	0	0.00	66.	997.	3	NAD-SFC	NoSubs
8	9	1	245	1	-3.8	0.100	-9.000	-9.000	-999.	80.	23.3	0.2720	0.52	1.00	1.00	326.0	15.0	291.6	2.0	0	0.00	68.	997.	3	NAD-SFC	NoSubs
8	9	1	245	2	-3.7	0.099	-9.000	-9.000	-999.	75.	23.3	0.2720	0.52	1.00	1.00	310.0	15.0	291.0	2.0	0	0.00	69.	998.	4	NAD-SFC	NoSubs
8	9	1	245	3	-7.1	0.129	-9.000	-9.000	-999.	111.	26.8	0.2160	0.52	1.00	1.50	290.0	15.0	290.4	2.0	0	0.00	71.	998.	3	NAD-SFC	NoSubs
8	9	1	245	4	-22.1	0.231	-9.000	-9.000	-999.	266.	49.5	0.2160	0.52	1.00	2.60	296.0	15.0	289.6	2.0	0	0.00	73.	998.	3	NAD-SFC	NoSubs
8	9	1	245	5	-30.8	0.297	-9.000	-9.000	-999.	388.	75.3	0.2720	0.52	1.00	3.10	304.0	15.0	288.8	2.0	0	0.00	77.	998.	3	NAD-SFC	NoSubs
8	9	1	245	6	-24.6	0.246	-9.000	-9.000	-999.	294.	54.0	0.2720	0.52	1.00	2.60	300.0	15.0	288.2	2.0	0	0.00	79.	999.	3	NAD-SFC	NoSubs
8	9	1	245	7	8.1	0.278	0.276	0.007	93.	352.	-237.1	0.2930	0.52	0.38	2.60	335.0	15.0	289.1	2.0	0	0.00	74.	1000.	2	NAD-SFC	NoSubs
8	9	1	245	8	55.8	0.104	0.699	0.009	219.	113.	-1.8	0.2930	0.52	0.25	0.50	360.0	15.0	290.8	2.0	0	0.00	64.	1000.	2	NAD-SFC	NoSubs
8	9	1	245	9	98.9	-9.000	-9.000	-9.000	339.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	292.5	2.0	0	0.00	57.	1000.	2	NAD-SFC	NoSubs
8	9	1	245	10	132.9	-9.000	-9.000	-9.000	496.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	294.2	2.0	0	0.00	51.	1000.	2	NAD-SFC	NoSubs
8	9	1	245	11	156.2	-9.000	-9.000	-9.000	662.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.9	2.0	0	0.00	46.	999.	2	NAD-SFC	NoSubs
8	9	1	245	12	167.9	-9.000	-9.000	-9.000	838.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.4	2.0	0	0.00	41.	998.	2	NAD-SFC	NoSubs
8	9	1	245	13	167.9	0.180	1.673	0.006	995.	183.	-3.1	0.2720	0.52	0.19	1.00	319.0	15.0	298.6	2.0	0	0.00	38.	998.	2	NAD-SFC	NoSubs

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 8  9  1 245 14   156.1   0.234   1.748   0.010 1219.   272.     -7.3  0.2930  0.52  0.19   1.50  334.0  15.0  299.4   2.0    0   0.00    35.   997.     2 NAD-SFC NoSubs
 8  9  1 245 15   132.6   0.288   1.712   0.012 1348.   370.    -16.0  0.2930  0.52  0.20   2.10  344.0  15.0  300.0   2.0    0   0.00    34.   997.     2 NAD-SFC NoSubs
 8  9  1 245 16    98.3   0.372   1.560   0.012 1374.   544.    -46.4  0.2930  0.52  0.21   3.10  342.0  15.0  300.1   2.0    0   0.00    32.   996.     2 NAD-SFC NoSubs
 8  9  1 245 17    54.7   0.310   1.288   0.012 1387.   417.    -48.5  0.2930  0.52  0.25   2.60  353.0  15.0  299.4   2.0    0   0.00    40.   996.     2 NAD-SFC NoSubs
 8  9  1 245 18     7.3   0.325   0.658   0.012 1388.   444.   -417.5  0.2930  0.52  0.40   3.10  351.0  15.0  298.8   2.0    0   0.00    43.   997.     2 NAD-SFC NoSubs
 8  9  1 245 19   -36.6   0.354  -9.000  -9.000 -999.   506.    108.1  0.2930  0.52  1.00   3.60  348.0  15.0  297.6   2.0    0   0.00    44.   997.     2 NAD-SFC NoSubs
 8  9  1 245 20   -16.3   0.200  -9.000  -9.000 -999.   231.     43.5  0.2930  0.52  1.00   2.10  336.0  15.0  296.4   2.0    0   0.00    46.   998.     2 NAD-SFC NoSubs
 8  9  1 245 21    -1.6   0.083  -9.000  -9.000 -999.    70.     31.7  0.2720  0.52  1.00   0.50  326.0  15.0  295.1   2.0    0   0.00    50.   998.     2 NAD-SFC NoSubs
 8  9  1 245 22    -1.4   0.079  -9.000  -9.000 -999.    53.     30.8  0.1750  0.52  1.00   0.50  249.0  15.0  293.9   2.0    0   0.00    54.   999.     2 NAD-SFC NoSubs
 8  9  1 245 23    -1.4   0.079  -9.000  -9.000 -999.    53.     30.9  0.1750  0.52  1.00   0.50  255.0  15.0  292.9   2.0    0   0.00    57.   999.     2 NAD-SFC NoSubs
 8  9  1 245 24  -999.0  -9.000  -9.000  -9.000 -999.  -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  291.9   2.0    0   0.00    61.   999.     2 NAD-SFC NoSubs
 8  9  2 246  1  -999.0  -9.000  -9.000  -9.000 -999.  -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  291.2   2.0    0   0.00    64.   999.     2 NAD-SFC NoSubs
 8  9  2 246  2    -3.6   0.097  -9.000  -9.000 -999.    72.     22.4  0.2160  0.52  1.00   1.00  298.0  15.0  290.8   2.0    0   0.00    65.   999.     2 NAD-SFC NoSubs
 8  9  2 246  3   -15.9   0.195  -9.000  -9.000 -999.   207.     41.7  0.2720  0.52  1.00   2.10  300.0  15.0  290.2   2.0    0   0.00    63.   999.     2 NAD-SFC NoSubs
 8  9  2 246  4   -22.4   0.230  -9.000  -9.000 -999.   265.     48.8  0.2160  0.52  1.00   2.60  299.0  15.0  289.8   2.0    0   0.00    62.  1000.     2 NAD-SFC NoSubs
 8  9  2 246  5   -24.9   0.246  -9.000  -9.000 -999.   293.     53.3  0.2720  0.52  1.00   2.60  301.0  15.0  289.4   2.0    0   0.00    63.  1000.     2 NAD-SFC NoSubs
 8  9  2 246  6   -16.0   0.195  -9.000  -9.000 -999.   208.     41.5  0.2720  0.52  1.00   2.10  313.0  15.0  288.9   2.0    0   0.00    65.  1000.     2 NAD-SFC NoSubs
 8  9  2 246  7     7.6   0.226   0.202   0.009   39.   258.   -136.5  0.2720  0.52  0.38   2.10  315.0  15.0  289.2   2.0    0   0.00    66.  1001.     2 NAD-SFC NoSubs
 8  9  2 246  8    55.6   0.260   0.587   0.009  130.   318.    -28.2  0.2720  0.52  0.25   2.10  311.0  15.0  291.9   2.0    0   0.00    57.  1001.     2 NAD-SFC NoSubs
 8  9  2 246  9    98.9   0.219   0.880   0.010  246.   246.     -9.4  0.2720  0.52  0.21   1.50  302.0  15.0  294.2   2.0    0   0.00    51.  1001.     2 NAD-SFC NoSubs
 8  9  2 246 10   133.3   0.115   1.141   0.009  398.    99.     -1.0  0.2720  0.52  0.20   0.50  301.0  15.0  297.0   2.0    0   0.00    44.  1000.     2 NAD-SFC NoSubs
 8  9  2 246 11   157.2   0.118   1.358   0.009  568.    97.     -1.0  0.2720  0.52  0.19   0.50  309.0  15.0  299.6   2.0    0   0.00    33.  1000.     2 NAD-SFC NoSubs
 8  9  2 246 12   169.0  -9.000  -9.000  -9.000  705.  -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  301.2   2.0    0   0.00    31.   999.     2 NAD-SFC NoSubs
 8  9  2 246 13   169.1  -9.000  -9.000  -9.000  815.  -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  302.8   2.0    0   0.00    30.   998.     2 NAD-SFC NoSubs
 8  9  2 246 14   157.3   0.120   1.587   0.008  906.   100.     -1.0  0.2930  0.52  0.19   0.50  345.0  15.0  303.8   2.0    0   0.00    30.   998.     2 NAD-SFC NoSubs
 8  9  2 246 15   133.8   0.230   1.543   0.008  978.   264.     -8.1  0.2930  0.52  0.20   1.50  356.0  15.0  304.4   2.0    0   0.00    30.   997.     2 NAD-SFC NoSubs
 8  9  2 246 16    99.4   0.326   1.424   0.008 1034.   447.    -31.0  0.2940  0.52  0.21   2.60    7.0  15.0  304.4   2.0    0   0.00    32.   997.     2 NAD-SFC NoSubs
 8  9  2 246 17    55.5   0.311   1.183   0.008 1062.   416.    -48.1  0.2940  0.52  0.25   2.60   16.0  15.0  303.4   2.0    0   0.00    43.   997.     2 NAD-SFC NoSubs
 8  9  2 246 18     8.0   0.375   0.622   0.008 1064.   550.   -582.3  0.2940  0.52  0.40   3.60   16.0  15.0  302.5   2.0    0   0.00    45.   997.     2 NAD-SFC NoSubs
 8  9  2 246 19   -16.2   0.200  -9.000  -9.000 -999.   239.     44.0  0.2940  0.52  1.00   2.10   25.0  15.0  301.2   2.0    0   0.00    46.   997.     2 NAD-SFC NoSubs
 8  9  2 246 20    -1.4   0.078  -9.000  -9.000 -999.    70.     30.6  0.1750  0.52  1.00   0.50  262.0  15.0  299.9   2.0    0   0.00    50.   997.     2 NAD-SFC NoSubs
 8  9  2 246 21   -12.9   0.173  -9.000  -9.000 -999.   173.     35.8  0.1750  0.52  1.00   2.10  262.0  15.0  298.5   2.0    0   0.00    56.   997.     2 NAD-SFC NoSubs
 8  9  2 246 22   -28.8   0.278  -9.000  -9.000 -999.   352.     66.5  0.2160  0.52  1.00   3.10  280.0  15.0  297.4   2.0    0   0.00    57.   997.     2 NAD-SFC NoSubs
 8  9  2 246 23   -14.2   0.183  -9.000  -9.000 -999.   192.     38.5  0.2160  0.52  1.00   2.10  288.0  15.0  296.2   2.0    0   0.00    57.   998.     2 NAD-SFC NoSubs
 8  9  2 246 24    -7.9   0.137  -9.000  -9.000 -999.   122.     28.9  0.2720  0.52  1.00   1.50  313.0  15.0  295.6   2.0    0   0.00    58.   998.     2 NAD-SFC NoSubs
 8  9  3 247  1    -3.9   0.100  -9.000  -9.000 -999.    76.     23.3  0.2720  0.52  1.00   1.00  313.0  15.0  294.9   2.0    0   0.00    59.   998.     2 NAD-SFC NoSubs
 8  9  3 247  2   -15.8   0.195  -9.000  -9.000 -999.   207.     42.0  0.2720  0.52  1.00   2.10  302.0  15.0  294.2   2.0    0   0.00    60.   998.     2 NAD-SFC NoSubs
 8  9  3 247  3   -31.2   0.296  -9.000  -9.000 -999.   387.     74.5  0.2720  0.52  1.00   3.10  312.0  15.0  293.2   2.0    0   0.00    62.   999.     2 NAD-SFC NoSubs
 8  9  3 247  4   -24.7   0.246  -9.000  -9.000 -999.   294.     53.6  0.2720  0.52  1.00   2.60  321.0  15.0  292.4   2.0    0   0.00    65.   999.     2 NAD-SFC NoSubs
 8  9  3 247  5   -15.9   0.195  -9.000  -9.000 -999.   208.     41.8  0.2720  0.52  1.00   2.10  304.0  15.0  291.8   2.0    0   0.00    66.  1000.     2 NAD-SFC NoSubs
 8  9  3 247  6   -14.3   0.183  -9.000  -9.000 -999.   188.     38.2  0.2160  0.52  1.00   2.10  277.0  15.0  291.4   2.0    0   0.00    65.  1000.     2 NAD-SFC NoSubs
 8  9  3 247  7     7.7   0.215   0.236   0.010   60.   240.   -115.0  0.2160  0.52  0.38   2.10  286.0  15.0  291.6   2.0    0   0.00    63.  1001.     2 NAD-SFC NoSubs
 8  9  3 247  8    55.4   0.205   0.612   0.011  147.   223.    -13.9  0.2720  0.52  0.25   1.50  329.0  15.0  293.2   2.0    0   0.00    54.  1001.     2 NAD-SFC NoSubs
 8  9  3 247  9    98.7  -9.000  -9.000  -9.000  236.  -999. -99999.0  0.2235  0.52  0.21   0.00    0.0  15.0  295.2   2.0    0   0.00    49.  1001.     2 NAD-SFC NoSubs
 8  9  3 247 10   133.2  -9.000  -9.000  -9.000  346.  -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  298.0   2.0    0   0.00    41.  1000.     2 NAD-SFC NoSubs
 8  9  3 247 11   156.7  -9.000  -9.000  -9.000  515.  -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  300.0   2.0    0   0.00    37.  1000.     2 NAD-SFC NoSubs
 8  9  3 247 12   168.5  -9.000  -9.000  -9.000  694.  -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  301.6   2.0    0   0.00    35.   999.     2 NAD-SFC NoSubs
 8  9  3 247 13   168.6  -9.000  -9.000  -9.000  840.  -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  303.2   2.0    0   0.00    33.   998.     2 NAD-SFC NoSubs
 8  9  3 247 14   156.9   0.120   1.615   0.007  957.   100.     -1.0  0.2930  0.52  0.19   0.50  345.0  15.0  304.4   2.0    0   0.00    32.   997.     2 NAD-SFC NoSubs
 8  9  3 247 15   133.3   0.230   1.569   0.006 1033.   265.     -8.1  0.2940  0.52  0.20   1.50    5.0  15.0  305.0   2.0    0   0.00    32.   997.     2 NAD-SFC NoSubs
 8  9  3 247 16    98.7  -9.000  -9.000  -9.000 1084.  -999. -99999.0  0.2235  0.52  0.21   0.00    0.0  15.0  305.0   2.0    0   0.00    34.   996.     2 NAD-SFC NoSubs
 8  9  3 247 17    54.8   0.311   1.196   0.006 1110.   415.    -48.5  0.2940  0.52  0.26   2.60   12.0  15.0  304.2   2.0    0   0.00    44.   996.     2 NAD-SFC NoSubs
 8  9  3 247 18     7.5   0.325   0.618   0.006 1112.   446.   -407.3  0.2940  0.52  0.41   3.10   14.0  15.0  303.5   2.0    0   0.00    46.   997.     2 NAD-SFC NoSubs
 8  9  3 247 19   -16.2   0.200  -9.000  -9.000 -999.   224.     44.0  0.2940  0.52  1.00   2.10   14.0  15.0  302.1   2.0    0   0.00    49.   997.     2 NAD-SFC NoSubs
 8  9  3 247 20    -1.5   0.080  -9.000  -9.000 -999.    67.     31.1  0.2160  0.52  1.00   0.50  284.0  15.0  300.8   2.0    0   0.00    54.   997.     2 NAD-SFC NoSubs
 8  9  3 247 21   -14.1   0.183  -9.000  -9.000 -999.   188.     38.8  0.2160  0.52  1.00   2.10  271.0  15.0  299.5   2.0    0   0.00    58.   998.     2 NAD-SFC NoSubs
 8  9  3 247 22   -28.7   0.278  -9.000  -9.000 -999.   352.     66.7  0.2160  0.52  1.00   3.10  295.0  15.0  298.4   2.0    0   0.00    59.   998.     2 NAD-SFC NoSubs
 8  9  3 247 23   -28.8   0.278  -9.000  -9.000 -999.   352.     66.5  0.2160  0.52  1.00   3.10  297.0  15.0  297.2   2.0    0   0.00    59.   998.     2 NAD-SFC NoSubs
 8  9  3 247 24   -22.1   0.231  -9.000  -9.000 -999.   267.     49.4  0.2160  0.52  1.00   2.60  297.0  15.0  296.2   2.0    0   0.00    59.   998.     2 NAD-SFC NoSubs
 8  9  4 248  1    -3.9   0.100  -9.000  -9.000 -999.    89.     23.3  0.2720  0.52  1.00   1.00  324.0  15.0  295.8   2.0    0   0.00    60.   998.     2 NAD-SFC NoSubs
 8  9  4 248  2    -1.5   0.081  -9.000  -9.000 -999.    55.     31.3  0.2160  0.52  1.00   0.50  295.0  15.0  295.4   2.0    0   0.00    61.   998.     2 NAD-SFC NoSubs
 8  9  4 248  3    -7.1   0.129  -9.000  -9.000 -999.   111.     26.6  0.2160  0.52  1.00   1.50  278.0  15.0  294.8   2.0    0   0.00    63.   999.     2 NAD-SFC NoSubs
 8  9  4 248  4   -22.2   0.231  -9.000  -9.000 -999.   266.     49.2  0.2160  0.52  1.00   2.60  277.0  15.0  293.9   2.0    0   0.00    67.   999.     2 NAD-SFC NoSubs
 8  9  4 248  5   -29.2   0.278  -9.000  -9.000 -999.   352.     65.5  0.2160  0.52  1.00   3.10  295.0  15.0  293.2   2.0    0   0.00    70.   999.     2 NAD-SFC NoSubs
 8  9  4 248  6   -24.7   0.246  -9.000  -9.000 -999.   293.     53.6  0.2720  0.52  1.00   2.60  303.0  15.0  292.8   2.0    0   0.00    71.   999.     2 NAD-SFC NoSubs
 8  9  4 248  7     7.6   0.226   0.238   0.009   63.   258.   -136.8  0.2720  0.52  0.38   2.10  312.0  15.0  292.8   2.0    0   0.00    71.  1000.     2 NAD-SFC NoSubs
 8  9  4 248  8    55.3   0.208   0.629   0.010  160.   228.    -14.6  0.2930  0.52  0.25   1.50  333.0  15.0  294.5   2.0    0   0.00    62.  1000.     2 NAD-SFC NoSubs
 8  9  4 248  9    98.6  -9.000  -9.000  -9.000  263.  -999. -99999.0  0.2235  0.52  0.21   0.00    0.0  15.0  296.5   2.0    0   0.00    56.  1000.     2 NAD-SFC NoSubs
 8  9  4 248 10   133.1  -9.000  -9.000  -9.000  370.  -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  299.1   2.0    0   0.00    46.   999.     2 NAD-SFC NoSubs
 8  9  4 248 11   156.5  -9.000  -9.000  -9.000  567.  -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  300.9   2.0    0   0.00    42.   999.     2 NAD-SFC NoSubs
 8  9  4 248 12   168.3  -9.000  -9.000  -9.000  743.  -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  302.6   2.0    0   0.00    39.   998.     2 NAD-SFC NoSubs
 8  9  4 248 13   168.4  -9.000  -9.000  -9.000  887.  -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  304.1   2.0    0   0.00    35.   997.     2 NAD-SFC NoSubs
 8  9  4 248 14   156.5   0.120   1.636   0.008  995.   100.     -1.0  0.2930  0.52  0.19   0.50  340.0  15.0  305.2   2.0    0   0.00    33.   996.     2 NAD-SFC NoSubs
 8  9  4 248 15   132.9   0.230   1.584   0.007 1062.   264.     -8.1  0.2940  0.52  0.20   1.50   15.0  15.0  305.9   2.0    0   0.00    32.   995.     2 NAD-SFC NoSubs
 8  9  4 248 16    98.2   0.280   1.453   0.007 1109.   355.    -19.7  0.2940  0.52  0.21   2.10   11.0  15.0  305.9   2.0    0   0.00    33.   994.     2 NAD-SFC NoSubs
 8  9  4 248 17    54.3   0.264   1.201   0.007 1132.   326.    -30.1  0.2940  0.52  0.26   2.10    8.0  15.0  305.2   2.0    0   0.00    43.   994.     2 NAD-SFC NoSubs
 8  9  4 248 18     7.0   0.277   0.607   0.007 1134.   349.   -269.4  0.2940  0.52  0.42   2.60   11.0  15.0  304.4   2.0    0   0.00    47.   995.     2 NAD-SFC NoSubs
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 8  9  4 248 19   -8.1  0.140 -9.000 -9.000 -999.  138.     30.1  0.2930  0.52  1.00  1.50  358.0  15.0  302.9  2.0   0  0.00   50.  995.   2 NAD-SFC NoSubs
 8  9  4 248 20   -7.0  0.129 -9.000 -9.000 -999.  111.     26.9  0.2160  0.52  1.00  1.50  287.0  15.0  301.5  2.0   0  0.00   56.  995.   2 NAD-SFC NoSubs
 8  9  4 248 21  -38.1  0.373 -9.000 -9.000 -999.  546.    120.5  0.2160  0.52  1.00  4.10  290.0  15.0  300.2  2.0   0  0.00   59.  996.   2 NAD-SFC NoSubs
 8  9  4 248 22  -38.5  0.373 -9.000 -9.000 -999.  546.    119.5  0.2160  0.52  1.00  4.10  286.0  15.0  297.8  2.0   0  0.00   68.  996.   2 NAD-SFC NoSubs
 8  9  4 248 23  -30.7  0.297 -9.000 -9.000 -999.  391.     75.4  0.2720  0.52  1.00  3.10  314.0  15.0  296.6  2.0   0  0.00   70.  996.   2 NAD-SFC NoSubs
 8  9  4 248 24  -25.5  0.252 -9.000 -9.000 -999.  304.     55.6  0.2930  0.52  1.00  2.60  344.0  15.0  296.0  2.0   0  0.00   70.  997.   2 NAD-SFC NoSubs
 8  9  5 249  1  -25.5  0.252 -9.000 -9.000 -999.  303.     55.6  0.2940  0.52  1.00  2.60   11.0  15.0  295.4  2.0   0  0.00   71.  997.   2 NAD-SFC NoSubs
 8  9  5 249  2   -8.2  0.140 -9.000 -9.000 -999.  132.     29.7  0.2940  0.52  1.00  1.50    8.0  15.0  295.0  2.0   0  0.00   71.  997.   2 NAD-SFC NoSubs
 8  9  5 249  3   -1.5  0.081 -9.000 -9.000 -999.   56.     31.3  0.2160  0.52  1.00  0.50  270.0  15.0  294.8  2.0   0  0.00   71.  997.   2 NAD-SFC NoSubs
 8  9  5 249  4   -3.3  0.093 -9.000 -9.000 -999.   68.     21.7  0.1750  0.52  1.00  1.00  252.0  15.0  294.4  2.0   0  0.00   71.  997.   2 NAD-SFC NoSubs
 8  9  5 249  5   -3.3  0.093 -9.000 -9.000 -999.   68.     21.7  0.1750  0.52  1.00  1.00  255.0  15.0  294.1  2.0   0  0.00   72.  998.   2 NAD-SFC NoSubs
 8  9  5 249  6   -3.3  0.093 -9.000 -9.000 -999.   68.     21.7  0.1750  0.52  1.00  1.00  250.0  15.0  293.8  2.0   0  0.00   73.  999.   2 NAD-SFC NoSubs
 8  9  5 249  7    7.4  0.156  0.218  0.009  50.   148.    -45.8  0.1750  0.52  0.39  1.50  263.0  15.0  293.9  2.0   0  0.00   73.  999.   2 NAD-SFC NoSubs
 8  9  5 249  8   55.1  0.205  0.663  0.009 189.   222.    -13.9  0.2720  0.52  0.25  1.50  322.0  15.0  295.5  2.0   0  0.00   63.  999.   2 NAD-SFC NoSubs
 8  9  5 249  9   98.4 -9.000 -9.000 -9.000 334.  -999. -99999.0  0.2235  0.52  0.21  0.00    0.0  15.0  297.4  2.0   0  0.00   56.  999.   2 NAD-SFC NoSubs
 8  9  5 249 10  132.6 -9.000 -9.000 -9.000 493.  -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  299.4  2.0   0  0.00   48.  998.   2 NAD-SFC NoSubs
 8  9  5 249 11  156.0 -9.000 -9.000 -9.000 650.  -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.1  2.0   0  0.00   45.  998.   2 NAD-SFC NoSubs
 8  9  5 249 12  167.7 -9.000 -9.000 -9.000 823.  -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  302.8  2.0   0  0.00   42.  997.   2 NAD-SFC NoSubs
 8  9  5 249 13  167.7 -9.000 -9.000 -9.000 969.  -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  304.2  2.0   0  0.00   38.  996.   2 NAD-SFC NoSubs
 8  9  5 249 14  155.9 -9.000 -9.000 -9.000 1038.  -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  305.5  2.0   0  0.00   36.  996.   2 NAD-SFC NoSubs
 8  9  5 249 15  132.1  0.117  1.595  0.008 1092.   96.     -1.1  0.2930  0.52  0.20  0.50  346.0  15.0  306.2  2.0   0  0.00   34.  995.   2 NAD-SFC NoSubs
 8  9  5 249 16   97.5  0.222  1.458  0.008 1130.  251.    -10.0  0.2940  0.52  0.21  1.50   12.0  15.0  306.4  2.0   0  0.00   35.  995.   2 NAD-SFC NoSubs
 8  9  5 249 17   53.4  0.310  1.200  0.008 1149.  414.    -49.5  0.2940  0.52  0.26  2.60    7.0  15.0  305.8  2.0   0  0.00   45.  995.   2 NAD-SFC NoSubs
 8  9  5 249 18    6.0  0.373  0.580  0.008 1149.  546.   -762.9  0.2940  0.52  0.42  3.60   14.0  15.0  304.5  2.0   0  0.00   50.  995.   2 NAD-SFC NoSubs
 8  9  5 249 19  -25.2  0.252 -9.000 -9.000 -999.  313.     56.5  0.2940  0.52  1.00  2.60   13.0  15.0  303.1  2.0   0  0.00   54.  996.   2 NAD-SFC NoSubs
 8  9  5 249 20   -3.8  0.100 -9.000 -9.000 -999.   99.     23.3  0.2720  0.52  1.00  1.00  304.0  15.0  301.8  2.0   0  0.00   58.  996.   2 NAD-SFC NoSubs
 8  9  5 249 21  -38.1  0.373 -9.000 -9.000 -999.  546.    120.7  0.2160  0.52  1.00  4.10  285.0  15.0  300.8  2.0   0  0.00   61.  996.   2 NAD-SFC NoSubs
 8  9  5 249 22  -40.9  0.397 -9.000 -9.000 -999.  600.    136.2  0.2720  0.52  1.00  4.10  301.0  15.0  298.8  2.0   0  0.00   68.  997.   2 NAD-SFC NoSubs
 8  9  5 249 23  -30.6  0.297 -9.000 -9.000 -999.  394.     75.7  0.2720  0.52  1.00  3.10  315.0  15.0  297.8  2.0   0  0.00   69.  997.   2 NAD-SFC NoSubs
 8  9  5 249 24  -16.3  0.200 -9.000 -9.000 -999.  219.     43.5  0.2930  0.52  1.00  2.10  354.0  15.0  297.1  2.0   0  0.00   70.  996.   2 NAD-SFC NoSubs
 8  9  6 250  1  -25.5  0.252 -9.000 -9.000 -999.  303.     55.7  0.2940  0.52  1.00  2.60   28.0  15.0  296.4  2.0   0  0.00   71.  997.   2 NAD-SFC NoSubs
 8  9  6 250  2   -8.2  0.140 -9.000 -9.000 -999.  132.     29.8  0.2940  0.52  1.00  1.50   27.0  15.0  295.9  2.0   0  0.00   72.  997.   2 NAD-SFC NoSubs
 8  9  6 250  3   -1.6  0.084 -9.000 -9.000 -999.   59.     31.9  0.2940  0.52  1.00  0.50   13.0  15.0  295.5  2.0   0  0.00   72.  997.   2 NAD-SFC NoSubs
 8  9  6 250  4   -1.5  0.081 -9.000 -9.000 -999.   55.     31.3  0.2160  0.52  1.00  0.50  272.0  15.0  295.1  2.0   0  0.00   73.  997.   2 NAD-SFC NoSubs
 8  9  6 250  5   -3.3  0.093 -9.000 -9.000 -999.   68.     21.7  0.1750  0.52  1.00  1.00  265.0  15.0  294.5  2.0   0  0.00   74.  997.   2 NAD-SFC NoSubs
 8  9  6 250  6   -3.3  0.093 -9.000 -9.000 -999.   68.     21.7  0.1750  0.52  1.00  1.00  264.0  15.0  294.1  2.0   0  0.00   76.  998.   2 NAD-SFC NoSubs
 8  9  6 250  7    7.0  0.156  0.210  0.010  47.   147.    -48.0  0.1750  0.52  0.39  1.50  263.0  15.0  294.2  2.0   0  0.00   77.  999.   2 NAD-SFC NoSubs
 8  9  6 250  8   54.7  0.205  0.625  0.008 159.   222.    -14.0  0.2720  0.52  0.25  1.50  313.0  15.0  295.9  2.0   0  0.00   71.  999.   2 NAD-SFC NoSubs
 8  9  6 250  9   98.1 -9.000 -9.000 -9.000 296.  -999. -99999.0  0.2235  0.52  0.21  0.00    0.0  15.0  298.0  2.0   0  0.00   63.  999.   2 NAD-SFC NoSubs
 8  9  6 250 10  132.6 -9.000 -9.000 -9.000 467.  -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  300.6  2.0   0  0.00   53.  998.   2 NAD-SFC NoSubs
 8  9  6 250 11  156.1 -9.000 -9.000 -9.000 662.  -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  302.5  2.0   0  0.00   46.  998.   2 NAD-SFC NoSubs
 8  9  6 250 12  167.8 -9.000 -9.000 -9.000 785.  -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  304.2  2.0   0  0.00   39.  997.   2 NAD-SFC NoSubs
 8  9  6 250 13  167.8 -9.000 -9.000 -9.000 892.  -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  305.8  2.0   0  0.00   35.  996.   2 NAD-SFC NoSubs
 8  9  6 250 14  155.7 -9.000 -9.000 -9.000 979.  -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  306.8  2.0   0  0.00   32.  995.   2 NAD-SFC NoSubs
 8  9  6 250 15  131.9  0.117  1.564  0.009 1031.   96.     -1.1  0.2930  0.52  0.20  0.50  335.0  15.0  307.4  2.0   0  0.00   31.  995.   2 NAD-SFC NoSubs
 8  9  6 250 16   97.1  0.108  1.430  0.008 1069.   85.     -1.2  0.2470  0.52  0.21  0.50   35.0  15.0  307.6  2.0   0  0.00   30.  994.   2 NAD-SFC NoSubs
 8  9  6 250 17   53.1  0.208  1.177  0.008 1087.  227.    -14.9  0.2940  0.52  0.26  1.50   26.0  15.0  307.2  2.0   0  0.00   37.  994.   2 NAD-SFC NoSubs
 8  9  6 250 18    5.8  0.219  0.564  0.008 1088.  246.   -158.8  0.2470  0.52  0.43  2.10   31.0  15.0  306.0  2.0   0  0.00   44.  994.   2 NAD-SFC NoSubs
 8  9  6 250 19   -3.9  0.101 -9.000 -9.000 -999.   86.     23.7  0.2930  0.52  1.00  1.00  338.0  15.0  304.2  2.0   0  0.00   50.  995.   2 NAD-SFC NoSubs
 8  9  6 250 20  -20.0  0.218 -9.000 -9.000 -999.  245.     46.3  0.1750  0.52  1.00  2.60  269.0  15.0  302.6  2.0   0  0.00   55.  995.   2 NAD-SFC NoSubs
 8  9  6 250 21  -43.0  0.420 -9.000 -9.000 -999.  653.    153.1  0.2160  0.52  1.00  4.60  276.0  15.0  300.1  2.0   0  0.00   62.  995.   2 NAD-SFC NoSubs
 8  9  6 250 22  -33.5  0.325 -9.000 -9.000 -999.  451.     91.3  0.2160  0.52  1.00  3.60  285.0  15.0  298.2  2.0   0  0.00   67.  995.   2 NAD-SFC NoSubs
 8  9  6 250 23  -30.6  0.297 -9.000 -9.000 -999.  388.     75.7  0.2720  0.52  1.00  3.10  308.0  15.0  297.5  2.0   0  0.00   65.  996.   2 NAD-SFC NoSubs
 8  9  6 250 24  -16.3  0.200 -9.000 -9.000 -999.  219.     43.6  0.2940  0.52  1.00  2.10   17.0  15.0  296.9  2.0   0  0.00   66.  996.   2 NAD-SFC NoSubs
 8  9  7 251  1  -23.4  0.239 -9.000 -9.000 -999.  281.     52.0  0.2470  0.52  1.00  2.60   49.0  15.0  296.2  2.0   0  0.00   67.  996.   2 NAD-SFC NoSubs
 8  9  7 251  2   -7.5  0.133 -9.000 -9.000 -999.  122.     27.9  0.2470  0.52  1.00  1.50   39.0  15.0  295.9  2.0   0  0.00   67.  996.   2 NAD-SFC NoSubs
 8  9  7 251  3   -1.5  0.082 -9.000 -9.000 -999.   57.     31.5  0.2470  0.52  1.00  0.50   36.0  15.0  295.5  2.0   0  0.00   67.  996.   2 NAD-SFC NoSubs
 8  9  7 251  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  295.0  2.0   0  0.00   68.  997.   2 NAD-SFC NoSubs
 8  9  7 251  5   -1.4  0.079 -9.000 -9.000 -999.   53.     30.8  0.1750  0.52  1.00  0.50  240.0  15.0  294.4  2.0   0  0.00   70.  997.   2 NAD-SFC NoSubs
 8  9  7 251  6   -3.3  0.093 -9.000 -9.000 -999.   68.     21.7  0.1750  0.52  1.00  1.00  259.0  15.0  293.9  2.0   0  0.00   72.  998.   2 NAD-SFC NoSubs
 8  9  7 251  7    6.4  0.161  0.199  0.011  44.   156.    -58.7  0.2160  0.52  0.39  1.50  276.0  15.0  293.9  2.0   0  0.00   72.  998.   2 NAD-SFC NoSubs
 8  9  7 251  8   54.0  0.204  0.629  0.010 164.   222.    -14.1  0.2720  0.52  0.25  1.50  320.0  15.0  295.8  2.0   0  0.00   68.  998.   2 NAD-SFC NoSubs
 8  9  7 251  9   97.3 -9.000 -9.000 -9.000 291.  -999. -99999.0  0.2235  0.52  0.21  0.00    0.0  15.0  297.6  2.0   0  0.00   63.  998.   2 NAD-SFC NoSubs
 8  9  7 251 10  131.7 -9.000 -9.000 -9.000 422.  -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  299.9  2.0   0  0.00   55.  997.   2 NAD-SFC NoSubs
 8  9  7 251 11  155.0 -9.000 -9.000 -9.000 588.  -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.6  2.0   0  0.00   51.  997.   2 NAD-SFC NoSubs
 8  9  7 251 12  166.6 -9.000 -9.000 -9.000 747.  -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  303.2  2.0   0  0.00   46.  996.   2 NAD-SFC NoSubs
 8  9  7 251 13  166.6 -9.000 -9.000 -9.000 895.  -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  304.9  2.0   0  0.00   41.  995.   2 NAD-SFC NoSubs
 8  9  7 251 14  154.5 -9.000 -9.000 -9.000 997.  -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  306.0  2.0   0  0.00   37.  994.   2 NAD-SFC NoSubs
 8  9  7 251 15  130.5  0.117  1.570  0.009 1052.   96.     -1.1  0.2930  0.52  0.20  0.50  352.0  15.0  306.6  2.0   0  0.00   35.  993.   2 NAD-SFC NoSubs
 8  9  7 251 16   95.5  0.222  1.432  0.009 1091.  251.    -10.1  0.2940  0.52  0.21  1.50    9.0  15.0  306.8  2.0   0  0.00   36.  993.   2 NAD-SFC NoSubs
 8  9  7 251 17   51.4  0.263  1.172  0.008 1109.  323.    -31.3  0.2940  0.52  0.26  2.10   12.0  15.0  306.1  2.0   0  0.00   45.  993.   2 NAD-SFC NoSubs
 8  9  7 251 18    4.4  0.273  0.517  0.008 1110.  342.   -409.2  0.2940  0.52  0.44  2.60   23.0  15.0  305.2  2.0   0  0.00   50.  993.   2 NAD-SFC NoSubs
 8  9  7 251 19  -15.5  0.196 -9.000 -9.000 -999.  210.     42.8  0.2720  0.52  1.00  2.10  327.0  15.0  303.8  2.0   0  0.00   54.  994.   2 NAD-SFC NoSubs
 8  9  7 251 20  -47.6  0.468 -9.000 -9.000 -999.  768.    190.6  0.2160  0.52  1.00  5.10  280.0  15.0  301.4  2.0   0  0.00   61.  994.   2 NAD-SFC NoSubs
 8  9  7 251 21  -41.0  0.398 -9.000 -9.000 -999.  606.    136.4  0.1750  0.52  1.00  4.60  269.0  15.0  297.9  2.0   0  0.00   70.  995.   2 NAD-SFC NoSubs
 8  9  7 251 22  -33.7  0.325 -9.000 -9.000 -999.  449.     90.8  0.2160  0.52  1.00  3.60  275.0  15.0  296.8  2.0   0  0.00   71.  995.   2 NAD-SFC NoSubs
 8  9  7 251 23  -22.1  0.231 -9.000 -9.000 -999.  270.     49.4  0.2160  0.52  1.00  2.60  292.0  15.0  296.1  2.0   0  0.00   70.  996.   2 NAD-SFC NoSubs
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 8  9  7 251 24  -15.7  0.195 -9.000 -9.000 -999.  208.     42.1  0.2720  0.52  1.00  2.10  325.0  15.0  295.5  2.0   0  0.00  70.  996.   2 NAD-SFC NoSubs
 8  9  8 252  1  -15.8  0.195 -9.000 -9.000 -999.  207.     42.1  0.2720  0.52  1.00  2.10  319.0  15.0  294.9  2.0   0  0.00  72.  996.   2 NAD-SFC NoSubs
 8  9  8 252  2  -15.8  0.195 -9.000 -9.000 -999.  207.     42.0  0.2720  0.52  1.00  2.10  309.0  15.0  294.6  2.0   0  0.00  73.  996.   2 NAD-SFC NoSubs
 8  9  8 252  3  -14.2  0.183 -9.000 -9.000 -999.  188.     38.4  0.2160  0.52  1.00  2.10  298.0  15.0  294.2  2.0   0  0.00  74.  996.   2 NAD-SFC NoSubs
 8  9  8 252  4   -7.1  0.129 -9.000 -9.000 -999.  111.     26.6  0.2160  0.52  1.00  1.50  297.0  15.0  294.0  2.0   0  0.00  76.  996.   2 NAD-SFC NoSubs
 8  9  8 252  5   -7.9  0.137 -9.000 -9.000 -999.  122.     28.8  0.2720  0.52  1.00  1.50  324.0  15.0  293.5  2.0   0  0.00  79.  997.   2 NAD-SFC NoSubs
 8  9  8 252  6   -7.9  0.137 -9.000 -9.000 -999.  122.     28.8  0.2720  0.52  1.00  1.50  328.0  15.0  293.0  2.0   0  0.00  83.  997.   2 NAD-SFC NoSubs
 8  9  8 252  7    5.5  0.227  0.225  0.011   73.  259.   -187.5  0.2930  0.52  0.40  2.10  355.0  15.0  293.0  2.0   0  0.00  84.  998.   2 NAD-SFC NoSubs
 8  9  8 252  8   52.9  0.207  0.707  0.011  238.  227.    -15.0  0.2930  0.52  0.25  1.50  352.0  15.0  294.1  2.0   0  0.00  76.  998.   2 NAD-SFC NoSubs
 8  9  8 252  9   96.2 -9.000 -9.000 -9.000  342. -999. -99999.0  0.2235  0.52  0.21  0.00    0.0  15.0  296.2  2.0   0  0.00  67.  997.   2 NAD-SFC NoSubs
 8  9  8 252 10  130.3 -9.000 -9.000 -9.000  464. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  298.0  2.0   0  0.00  61.  997.   2 NAD-SFC NoSubs
 8  9  8 252 11  153.5 -9.000 -9.000 -9.000  588. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  299.8  2.0   0  0.00  56.  996.   2 NAD-SFC NoSubs
 8  9  8 252 12  165.3 -9.000 -9.000 -9.000  717. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.9  2.0   0  0.00  49.  995.   2 NAD-SFC NoSubs
 8  9  8 252 13  165.1 -9.000 -9.000 -9.000  851. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  303.5  2.0   0  0.00  44.  994.   2 NAD-SFC NoSubs
 8  9  8 252 14  152.8  0.120  1.604  0.010  958.   99.     -1.0  0.2930  0.52  0.19  0.50  335.0  15.0  304.6  2.0   0  0.00  40.  994.   2 NAD-SFC NoSubs
 8  9  8 252 15  128.7  0.229  1.549  0.011 1024.  263.     -8.3  0.2940  0.52  0.20  1.50    4.0  15.0  305.2  2.0   0  0.00  39.  993.   2 NAD-SFC NoSubs
 8  9  8 252 16   93.6  0.371  1.411  0.011 1065.  541.    -48.2  0.2940  0.52  0.21  3.10   15.0  15.0  305.1  2.0   0  0.00  41.  993.   2 NAD-SFC NoSubs
 8  9  8 252 17   49.2  0.354  1.146  0.011 1085.  505.    -79.7  0.2940  0.52  0.27  3.10   21.0  15.0  304.2  2.0   0  0.00  52.  993.   2 NAD-SFC NoSubs
 8  9  8 252 18    4.0  0.321  0.496  0.011 1085.  438.   -737.1  0.2940  0.52  0.44  3.10   15.0  15.0  303.5  2.0   0  0.00  55.  994.   3 NAD-SFC NoSubs
 8  9  8 252 19  -32.1  0.326 -9.000 -9.000 -999.  446.     95.2  0.2160  0.52  1.00  3.60  299.0  15.0  302.8  2.0   0  0.00  56.  994.   3 NAD-SFC NoSubs
 8  9  8 252 20  -46.8  0.468 -9.000 -9.000 -999.  768.    194.3  0.2160  0.52  1.00  5.10  279.0  15.0  299.2  2.0   0  0.00  67.  995.   3 NAD-SFC NoSubs
 8  9  8 252 21  -40.1  0.398 -9.000 -9.000 -999.  607.    139.5  0.1750  0.52  1.00  4.60  269.0  15.0  296.8  2.0   0  0.00  70.  995.   3 NAD-SFC NoSubs
 8  9  8 252 22  -37.7  0.373 -9.000 -9.000 -999.  547.    121.9  0.2160  0.52  1.00  4.10  279.0  15.0  295.8  2.0   0  0.00  71.  995.   3 NAD-SFC NoSubs
 8  9  8 252 23  -30.1  0.297 -9.000 -9.000 -999.  391.     77.1  0.2720  0.52  1.00  3.10  323.0  15.0  295.1  2.0   0  0.00  71.  996.   3 NAD-SFC NoSubs
 8  9  8 252 24  -36.1  0.355 -9.000 -9.000 -999.  507.    109.8  0.2930  0.52  1.00  3.60  360.0  15.0  294.4  2.0   0  0.00  73.  996.   3 NAD-SFC NoSubs
 8  9  9 253  1  -36.2  0.355 -9.000 -9.000 -999.  507.    109.5  0.2930  0.52  1.00  3.60  345.0  15.0  293.5  2.0   0  0.00  75.  996.   3 NAD-SFC NoSubs
 8  9  9 253  2  -36.2  0.355 -9.000 -9.000 -999.  507.    109.3  0.2930  0.52  1.00  3.60  339.0  15.0  293.0  2.0   0  0.00  74.  996.   3 NAD-SFC NoSubs
 8  9  9 253  3  -30.3  0.297 -9.000 -9.000 -999.  390.     76.4  0.2720  0.52  1.00  3.10  329.0  15.0  292.8  2.0   0  0.00  72.  996.   3 NAD-SFC NoSubs
 8  9  9 253  4  -31.0  0.303 -9.000 -9.000 -999.  401.     79.8  0.2930  0.52  1.00  3.10  330.0  15.0  292.6  2.0   0  0.00  70.  996.   3 NAD-SFC NoSubs
 8  9  9 253  5  -31.0  0.303 -9.000 -9.000 -999.  401.     79.8  0.2930  0.52  1.00  3.10  330.0  15.0  292.4  2.0   0  0.00  69.  996.   3 NAD-SFC NoSubs
 8  9  9 253  6  -25.3  0.252 -9.000 -9.000 -999.  304.     56.0  0.2930  0.52  1.00  2.60  335.0  15.0  292.2  2.0   0  0.00  70.  997.   3 NAD-SFC NoSubs
 8  9  9 253  7    6.2  0.172  0.218  0.009   59.  174.    -73.3  0.2930  0.52  0.40  1.50  336.0  15.0  292.2  2.0   0  0.00  72.  997.   3 NAD-SFC NoSubs
 8  9  9 253  8   53.2  0.208  0.664  0.008  195.  227.    -14.9  0.2930  0.52  0.25  1.50  345.0  15.0  294.0  2.0   0  0.00  63.  997.   3 NAD-SFC NoSubs
 8  9  9 253  9   96.0  0.168  0.978  0.008  347.  165.     -4.4  0.2720  0.52  0.21  1.00  323.0  15.0  295.8  2.0   0  0.00  56.  997.   3 NAD-SFC NoSubs
 8  9  9 253 10  129.6  0.115  1.227  0.007  508.   94.     -1.0  0.2720  0.52  0.20  0.50  317.0  15.0  297.2  2.0   0  0.00  52.  997.   3 NAD-SFC NoSubs
 8  9  9 253 11  152.4 -9.000 -9.000 -9.000  658. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  298.8  2.0   0  0.00  49.  997.   2 NAD-SFC NoSubs
 8  9  9 253 12  163.7 -9.000 -9.000 -9.000  799. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  300.1  2.0   0  0.00  47.  996.   2 NAD-SFC NoSubs
 8  9  9 253 13  163.3 -9.000 -9.000 -9.000  919. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.5  2.0   0  0.00  44.  995.   2 NAD-SFC NoSubs
 8  9  9 253 14  150.7  0.119  1.627  0.008 1015.   99.     -1.0  0.2930  0.52  0.19  0.50  336.0  15.0  302.2  2.0   0  0.00  41.  994.   2 NAD-SFC NoSubs
 8  9  9 253 15  126.7  0.228  1.571  0.008 1087.  262.     -8.3  0.2930  0.52  0.20  1.50  356.0  15.0  302.8  2.0   0  0.00  40.  994.   3 NAD-SFC NoSubs
 8  9  9 253 16   92.0 -9.000 -9.000 -9.000 1137. -999. -99999.0  0.2235  0.52  0.21  0.00    0.0  15.0  302.9  2.0   0  0.00  40.  993.   3 NAD-SFC NoSubs
 8  9  9 253 17   48.2  0.308  1.164  0.008 1160.  409.    -53.4  0.2940  0.52  0.27  2.60   10.0  15.0  302.5  2.0   0  0.00  49.  993.   3 NAD-SFC NoSubs
 8  9  9 253 18    2.1  0.318  0.411  0.008 1159.  431.  -1352.5  0.2930  0.52  0.45  3.10  346.0  15.0  301.8  2.0   0  0.00  52.  994.   3 NAD-SFC NoSubs
 8  9  9 253 19  -42.0  0.420 -9.000 -9.000 -999.  654.    156.9  0.2160  0.52  1.00  4.60  293.0  15.0  299.5  2.0   0  0.00  57.  995.   3 NAD-SFC NoSubs
 8  9  9 253 20  -44.9  0.443 -9.000 -9.000 -999.  708.    172.2  0.1750  0.52  1.00  5.10  268.0  15.0  295.5  2.0   0  0.00  63.  995.   3 NAD-SFC NoSubs
 8  9  9 253 21  -47.6  0.468 -9.000 -9.000 -999.  767.    190.6  0.2160  0.52  1.00  5.10  275.0  15.0  293.8  2.0   0  0.00  67.  995.   3 NAD-SFC NoSubs
 8  9  9 253 22  -38.1  0.373 -9.000 -9.000 -999.  553.    120.6  0.2160  0.52  1.00  4.10  274.0  15.0  292.8  2.0   0  0.00  71.  996.   3 NAD-SFC NoSubs
 8  9  9 253 23  -28.5  0.278 -9.000 -9.000 -999.  357.     67.0  0.2160  0.52  1.00  3.10  280.0  15.0  291.8  2.0   0  0.00  74.  996.   3 NAD-SFC NoSubs
 8  9  9 253 24   -7.1  0.129 -9.000 -9.000 -999.  129.     26.8  0.2160  0.52  1.00  1.50  299.0  15.0  291.2  2.0   0  0.00  76.  997.   3 NAD-SFC NoSubs
 8  9 10 254  1   -3.7  0.099 -9.000 -9.000 -999.   75.     23.3  0.2720  0.52  1.00  1.00  309.0  15.0  290.8  2.0   0  0.00  77.  997.   4 NAD-SFC NoSubs
 8  9 10 254  2   -7.0  0.129 -9.000 -9.000 -999.  111.     27.2  0.2160  0.52  1.00  1.50  298.0  15.0  290.2  2.0   0  0.00  79.  997.   4 NAD-SFC NoSubs
 8  9 10 254  3   -7.0  0.129 -9.000 -9.000 -999.  111.     27.2  0.2160  0.52  1.00  1.50  289.0  15.0  289.9  2.0   0  0.00  79.  997.   4 NAD-SFC NoSubs
 8  9 10 254  4   -7.0  0.129 -9.000 -9.000 -999.  111.     27.2  0.2160  0.52  1.00  1.50  283.0  15.0  289.8  2.0   0  0.00  79.  998.   4 NAD-SFC NoSubs
 8  9 10 254  5   -7.0  0.129 -9.000 -9.000 -999.  111.     27.2  0.2160  0.52  1.00  1.50  295.0  15.0  289.5  2.0   0  0.00  79.  998.   4 NAD-SFC NoSubs
 8  9 10 254  6   -1.4  0.079 -9.000 -9.000 -999.   54.     30.8  0.2160  0.52  1.00  0.50  294.0  15.0  289.2  2.0   0  0.00  79.  999.   4 NAD-SFC NoSubs
 8  9 10 254  7    6.1  0.118  0.234  0.009   74.   97.    -23.9  0.2160  0.52  0.40  1.00  289.0  15.0  289.9  2.0   0  0.00  76.  999.   4 NAD-SFC NoSubs
 8  9 10 254  8   52.1  0.101  0.654  0.007  192.   77.     -1.8  0.2720  0.52  0.25  0.50  308.0  15.0  291.8  2.0   0  0.00  70. 1000.   4 NAD-SFC NoSubs
 8  9 10 254  9   94.6 -9.000 -9.000 -9.000  348. -999. -99999.0  0.2235  0.52  0.21  0.00    0.0  15.0  293.4  2.0   0  0.00  67. 1000.   3 NAD-SFC NoSubs
 8  9 10 254 10  128.2 -9.000 -9.000 -9.000  555. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  295.1  2.0   0  0.00  63.  999.   3 NAD-SFC NoSubs
 8  9 10 254 11  151.0 -9.000 -9.000 -9.000  715. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  296.8  2.0   0  0.00  59.  999.   3 NAD-SFC NoSubs
 8  9 10 254 12  162.2 -9.000 -9.000 -9.000  823. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  298.2  2.0   0  0.00  55.  998.   3 NAD-SFC NoSubs
 8  9 10 254 13  161.6 -9.000 -9.000 -9.000  920. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  299.6  2.0   0  0.00  51.  997.   3 NAD-SFC NoSubs
 8  9 10 254 14  149.0  0.180  1.616  0.007 1008.  184.     -3.5  0.2930  0.52  0.19  1.00  336.0  15.0  300.5  2.0   0  0.00  49.  997.   2 NAD-SFC NoSubs
 8  9 10 254 15  125.0  0.286  1.562  0.008 1086.  367.    -16.7  0.2940  0.52  0.20  2.10   13.0  15.0  301.0  2.0   0  0.00  48.  996.   3 NAD-SFC NoSubs
 8  9 10 254 16   89.3  0.415  1.419  0.008 1138.  641.    -70.9  0.2940  0.52  0.21  3.60   13.0  15.0  301.0  2.0   0  0.00  50.  996.   2 NAD-SFC NoSubs
 8  9 10 254 17   45.1  0.306  1.138  0.008 1162.  414.    -56.4  0.2940  0.52  0.27  2.60   12.0  15.0  300.8  2.0   0  0.00  59.  997.   2 NAD-SFC NoSubs
 8  9 10 254 18   -2.2  0.266 -9.000 -9.000 -999.  330.    776.7  0.2930  0.52  0.46  2.60  359.0  15.0  300.2  2.0   0  0.00  60.  997.   2 NAD-SFC NoSubs
 8  9 10 254 19  -22.0  0.231 -9.000 -9.000 -999.  266.     49.7  0.2160  0.52  1.00  2.60  283.0  15.0  299.2  2.0   0  0.00  62.  997.   2 NAD-SFC NoSubs
 8  9 10 254 20  -36.4  0.353 -9.000 -9.000 -999.  503.    107.4  0.1750  0.52  1.00  4.10  266.0  15.0  298.1  2.0   0  0.00  65.  997.   2 NAD-SFC NoSubs
 8  9 10 254 21  -35.1  0.347 -9.000 -9.000 -999.  491.    105.9  0.2720  0.52  1.00  3.60  302.0  15.0  296.5  2.0   0  0.00  71.  998.   3 NAD-SFC NoSubs
 8  9 10 254 22  -28.3  0.278 -9.000 -9.000 -999.  355.     67.7  0.2160  0.52  1.00  3.10  298.0  15.0  294.9  2.0   0  0.00  76.  998.   3 NAD-SFC NoSubs
 8  9 10 254 23  -33.3  0.325 -9.000 -9.000 -999.  445.     92.2  0.2160  0.52  1.00  3.60  291.0  15.0  293.5  2.0   0  0.00  80.  999.   3 NAD-SFC NoSubs
 8  9 10 254 24  -28.5  0.278 -9.000 -9.000 -999.  353.     67.2  0.2160  0.52  1.00  3.10  295.0  15.0  292.8  2.0   0  0.00  82.  999.   3 NAD-SFC NoSubs
 8  9 11 255  1  -22.0  0.231 -9.000 -9.000 -999.  267.     49.8  0.2160  0.52  1.00  2.60  280.0  15.0  292.4  2.0   0  0.00  82.  999.   3 NAD-SFC NoSubs
 8  9 11 255  2  -22.0  0.231 -9.000 -9.000 -999.  266.     49.8  0.2160  0.52  1.00  2.60  275.0  15.0  292.2  2.0   0  0.00  82. 1000.   3 NAD-SFC NoSubs
 8  9 11 255  3  -22.0  0.231 -9.000 -9.000 -999.  266.     49.7  0.2160  0.52  1.00  2.60  283.0  15.0  292.1  2.0   0  0.00  83. 1000.   3 NAD-SFC NoSubs
 8  9 11 255  4  -12.9  0.173 -9.000 -9.000 -999.  174.     35.9  0.1750  0.52  1.00  2.10  266.0  15.0  291.9  2.0   0  0.00  84. 1000.   3 NAD-SFC NoSubs
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8	9	11	255	5	-12.9	0.173	-9.000	-9.000	-999.	173.	35.9	0.1750	0.52	1.00	2.10	268.0	15.0	291.6	2.0	0	0.00	86.	1001.	3	NAD-SFC NoSubs
8	9	11	255	6	-6.5	0.122	-9.000	-9.000	-999.	103.	25.0	0.1750	0.52	1.00	1.50	246.0	15.0	291.2	2.0	0	0.00	86.	1001.	3	NAD-SFC NoSubs
8	9	11	255	7	3.4	0.149	0.161	0.010	43.	137.	-86.0	0.1750	0.52	0.40	1.50	247.0	15.0	291.2	2.0	0	0.00	86.	1002.	2	NAD-SFC NoSubs
8	9	11	255	8	50.6	0.203	0.708	0.010	250.	219.	-14.8	0.2720	0.52	0.25	1.50	329.0	15.0	292.8	2.0	0	0.00	75.	1002.	2	NAD-SFC NoSubs
8	9	11	255	9	93.8	-9.000	-9.000	-9.000	339.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	294.4	2.0	0	0.00	67.	1002.	2	NAD-SFC NoSubs
8	9	11	255	10	127.6	-9.000	-9.000	-9.000	465.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.0	2.0	0	0.00	61.	1001.	2	NAD-SFC NoSubs
8	9	11	255	11	150.6	-9.000	-9.000	-9.000	611.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.8	2.0	0	0.00	54.	1001.	2	NAD-SFC NoSubs
8	9	11	255	12	161.9	-9.000	-9.000	-9.000	774.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.2	2.0	0	0.00	49.	1000.	2	NAD-SFC NoSubs
8	9	11	255	13	161.2	-9.000	-9.000	-9.000	924.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.5	2.0	0	0.00	46.	999.	2	NAD-SFC NoSubs
8	9	11	255	14	148.6	0.117	1.625	0.007	1029.	96.	-1.0	0.2720	0.52	0.19	0.50	328.0	15.0	301.5	2.0	0	0.00	43.	998.	2	NAD-SFC NoSubs
8	9	11	255	15	124.2	-9.000	-9.000	-9.000	1102.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	302.2	2.0	0	0.00	40.	997.	2	NAD-SFC NoSubs
8	9	11	255	16	88.8	0.220	1.421	0.007	1151.	247.	-10.6	0.2940	0.52	0.22	1.50	19.0	15.0	302.1	2.0	0	0.00	37.	997.	2	NAD-SFC NoSubs
8	9	11	255	17	44.4	0.250	1.135	0.007	1173.	300.	-31.2	0.2470	0.52	0.27	2.10	34.0	15.0	301.6	2.0	0	0.00	44.	997.	2	NAD-SFC NoSubs
8	9	11	255	18	-2.6	0.201	-9.000	-9.000	-999.	217.	272.3	0.2470	0.52	0.47	2.10	44.0	15.0	300.9	2.0	0	0.00	48.	998.	2	NAD-SFC NoSubs
8	9	11	255	19	-3.7	0.098	-9.000	-9.000	-999.	79.	22.9	0.2470	0.52	1.00	1.00	53.0	15.0	299.5	2.0	0	0.00	52.	998.	2	NAD-SFC NoSubs
8	9	11	255	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	297.9	2.0	0	0.00	59.	998.	2	NAD-SFC NoSubs
8	9	11	255	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	296.5	2.0	0	0.00	65.	999.	2	NAD-SFC NoSubs
8	9	11	255	22	-1.5	0.080	-9.000	-9.000	-999.	55.	31.2	0.2090	0.52	1.00	0.50	80.0	15.0	295.4	2.0	0	0.00	70.	999.	2	NAD-SFC NoSubs
8	9	11	255	23	-3.5	0.096	-9.000	-9.000	-999.	71.	22.3	0.2090	0.52	1.00	1.00	89.0	15.0	294.2	2.0	0	0.00	74.	1000.	2	NAD-SFC NoSubs
8	9	11	255	24	-1.6	0.082	-9.000	-9.000	-999.	56.	31.6	0.2470	0.52	1.00	0.50	47.0	15.0	293.5	2.0	0	0.00	77.	999.	2	NAD-SFC NoSubs
8	9	12	256	1	-4.0	0.102	-9.000	-9.000	-999.	78.	23.6	0.2930	0.52	1.00	1.00	350.0	15.0	292.8	2.0	0	0.00	80.	1000.	2	NAD-SFC NoSubs
8	9	12	256	2	-8.2	0.140	-9.000	-9.000	-999.	125.	29.6	0.2930	0.52	1.00	1.50	330.0	15.0	292.4	2.0	0	0.00	81.	1000.	2	NAD-SFC NoSubs
8	9	12	256	3	-24.8	0.246	-9.000	-9.000	-999.	293.	53.6	0.2720	0.52	1.00	2.60	326.0	15.0	291.9	2.0	0	0.00	83.	1000.	2	NAD-SFC NoSubs
8	9	12	256	4	-31.4	0.296	-9.000	-9.000	-999.	387.	73.9	0.2720	0.52	1.00	3.10	327.0	15.0	290.9	2.0	0	0.00	88.	1000.	2	NAD-SFC NoSubs
8	9	12	256	5	-25.8	0.251	-9.000	-9.000	-999.	303.	55.0	0.2930	0.52	1.00	2.60	330.0	15.0	290.1	2.0	0	0.00	93.	1001.	2	NAD-SFC NoSubs
8	9	12	256	6	-16.0	0.195	-9.000	-9.000	-999.	208.	41.6	0.2720	0.52	1.00	2.10	307.0	15.0	289.8	2.0	0	0.00	95.	1002.	2	NAD-SFC NoSubs
8	9	12	256	7	2.5	0.153	0.131	0.011	33.	144.	-129.7	0.2160	0.52	0.41	1.50	295.0	15.0	289.8	2.0	0	0.00	92.	1002.	2	NAD-SFC NoSubs
8	9	12	256	8	49.7	0.203	0.579	0.009	139.	219.	-15.0	0.2720	0.52	0.26	1.50	321.0	15.0	291.6	2.0	0	0.00	79.	1003.	2	NAD-SFC NoSubs
8	9	12	256	9	92.9	-9.000	-9.000	-9.000	233.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	293.8	2.0	0	0.00	68.	1002.	2	NAD-SFC NoSubs
8	9	12	256	10	126.9	-9.000	-9.000	-9.000	355.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	295.8	2.0	0	0.00	58.	1002.	2	NAD-SFC NoSubs
8	9	12	256	11	149.9	-9.000	-9.000	-9.000	590.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.6	2.0	0	0.00	53.	1002.	2	NAD-SFC NoSubs
8	9	12	256	12	161.3	-9.000	-9.000	-9.000	754.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.6	2.0	0	0.00	46.	1001.	2	NAD-SFC NoSubs
8	9	12	256	13	160.7	-9.000	-9.000	-9.000	869.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.1	2.0	0	0.00	41.	1000.	2	NAD-SFC NoSubs
8	9	12	256	14	148.0	-9.000	-9.000	-9.000	963.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.1	2.0	0	0.00	38.	999.	2	NAD-SFC NoSubs
8	9	12	256	15	123.4	0.176	1.521	0.010	1016.	178.	-3.9	0.2930	0.52	0.20	1.00	350.0	15.0	302.8	2.0	0	0.00	36.	998.	2	NAD-SFC NoSubs
8	9	12	256	16	88.0	0.220	1.374	0.009	1050.	247.	-10.7	0.2940	0.52	0.22	1.50	1.0	15.0	302.9	2.0	0	0.00	36.	998.	2	NAD-SFC NoSubs
8	9	12	256	17	43.5	0.259	1.092	0.009	1065.	316.	-35.6	0.2940	0.52	0.27	2.10	9.0	15.0	302.2	2.0	0	0.00	44.	997.	2	NAD-SFC NoSubs
8	9	12	256	18	-7.0	0.367	-9.000	-9.000	-999.	535.	628.8	0.2940	0.52	0.48	3.60	23.0	15.0	301.1	2.0	0	0.00	50.	998.	2	NAD-SFC NoSubs
8	9	12	256	19	-36.5	0.355	-9.000	-9.000	-999.	508.	109.1	0.2940	0.52	1.00	3.60	29.0	15.0	299.6	2.0	0	0.00	55.	998.	2	NAD-SFC NoSubs
8	9	12	256	20	-3.9	0.102	-9.000	-9.000	-999.	179.	23.7	0.2930	0.52	1.00	1.00	344.0	15.0	298.4	2.0	0	0.00	58.	998.	2	NAD-SFC NoSubs
8	9	12	256	21	-43.6	0.420	-9.000	-9.000	-999.	653.	151.3	0.2160	0.52	1.00	4.60	276.0	15.0	296.8	2.0	0	0.00	65.	999.	2	NAD-SFC NoSubs
8	9	12	256	22	-44.0	0.420	-9.000	-9.000	-999.	653.	149.9	0.2160	0.52	1.00	4.60	278.0	15.0	294.1	2.0	0	0.00	76.	999.	2	NAD-SFC NoSubs
8	9	12	256	23	-29.2	0.278	-9.000	-9.000	-999.	366.	65.5	0.2160	0.52	1.00	3.10	284.0	15.0	293.2	2.0	0	0.00	78.	999.	2	NAD-SFC NoSubs
8	9	12	256	24	-7.2	0.129	-9.000	-9.000	-999.	131.	26.6	0.2160	0.52	1.00	1.50	297.0	15.0	292.9	2.0	0	0.00	77.	1000.	2	NAD-SFC NoSubs
8	9	13	257	1	-3.6	0.097	-9.000	-9.000	-999.	72.	22.4	0.2160	0.52	1.00	1.00	296.0	15.0	292.6	2.0	0	0.00	77.	1000.	2	NAD-SFC NoSubs
8	9	13	257	2	-7.2	0.129	-9.000	-9.000	-999.	111.	26.5	0.2160	0.52	1.00	1.50	290.0	15.0	292.2	2.0	0	0.00	78.	1000.	2	NAD-SFC NoSubs
8	9	13	257	3	-15.9	0.195	-9.000	-9.000	-999.	207.	41.8	0.2720	0.52	1.00	2.10	300.0	15.0	291.8	2.0	0	0.00	81.	1000.	2	NAD-SFC NoSubs
8	9	13	257	4	-24.8	0.246	-9.000	-9.000	-999.	293.	53.5	0.2720	0.52	1.00	2.60	307.0	15.0	291.0	2.0	0	0.00	86.	1000.	2	NAD-SFC NoSubs
8	9	13	257	5	-16.0	0.195	-9.000	-9.000	-999.	208.	41.7	0.2720	0.52	1.00	2.10	310.0	15.0	290.2	2.0	0	0.00	90.	1001.	2	NAD-SFC NoSubs
8	9	13	257	6	-8.0	0.137	-9.000	-9.000	-999.	122.	28.6	0.2720	0.52	1.00	1.50	311.0	15.0	289.9	2.0	0	0.00	93.	1002.	2	NAD-SFC NoSubs
8	9	13	257	7	2.0	0.159	0.153	0.013	65.	152.	-181.9	0.2720	0.52	0.41	1.50	310.0	15.0	289.9	2.0	0	0.00	92.	1002.	2	NAD-SFC NoSubs
8	9	13	257	8	49.0	0.157	0.617	0.012	171.	150.	-7.1	0.2930	0.52	0.26	1.00	335.0	15.0	291.4	2.0	0	0.00	82.	1002.	2	NAD-SFC NoSubs
8	9	13	257	9	92.3	-9.000	-9.000	-9.000	268.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	293.8	2.0	0	0.00	72.	1002.	2	NAD-SFC NoSubs
8	9	13	257	10	126.2	-9.000	-9.000	-9.000	364.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	295.8	2.0	0	0.00	63.	1002.	2	NAD-SFC NoSubs
8	9	13	257	11	149.2	-9.000	-9.000	-9.000	526.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.6	2.0	0	0.00	57.	1001.	2	NAD-SFC NoSubs
8	9	13	257	12	160.6	-9.000	-9.000	-9.000	679.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.8	2.0	0	0.00	49.	1000.	2	NAD-SFC NoSubs
8	9	13	257	13	160.0	-9.000	-9.000	-9.000	796.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.5	2.0	0	0.00	42.	1000.	2	NAD-SFC NoSubs
8	9	13	257	14	147.3	0.117	1.544	0.010	891.	96.	-1.0	0.2720	0.52	0.19	0.50	317.0	15.0	302.6	2.0	0	0.00	38.	999.	2	NAD-SFC NoSubs
8	9	13	257	15	122.7	0.176	1.491	0.010	963.	177.	-4.0	0.2930	0.52	0.20	1.00	341.0	15.0	303.2	2.0	0	0.00	36.	998.	2	NAD-SFC NoSubs
8	9	13	257	16	87.2	0.219	1.347	0.010	1000.	246.	-10.7	0.2930	0.52	0.22	1.50	359.0	15.0	303.4	2.0	0	0.00	36.	998.	2	NAD-SFC NoSubs
8	9	13	257	17	42.5	0.259	1.066	0.009	1015.	316.	-36.2	0.2940	0.52	0.28	2.10	11.0	15.0	302.8	2.0	0	0.00	45.	998.	2	NAD-SFC NoSubs
8	9	13	257	18	-6.1	0.261	-9.000	-9.000	-999.	319.	256.6	0.2940	0.52	0.48	2.60	19.0	15.0	301.9	2.0	0	0.00	48.	999.	2	NAD-SFC NoSubs
8	9	13	257	19	-8.1	0.140	-9.000	-9.000	-999.	134.	30.0	0.2940	0.52	1.00	1.50	6.0	15.0	300.5	2.0	0	0.00	53.	999.	2	NAD-SFC NoSubs
8	9	13	257	20	-28.7	0.278	-9.000	-9.000	-999.	352.	66.9	0.2160	0.52	1.00	3.10	275.0	15.0	299.2	2.0	0	0.00	57.	1000.	2	NAD-SFC NoSubs
8	9	13	257	21	-43.8	0.420	-9.000	-9.000	-999.	653.	150.9	0.2160	0.52	1.00	4.60	277.0	15.0	296.1	2.0	0	0.00	69.	1001.	2	NAD-SFC NoSubs
8	9	13	257	22	-34.1	0.325	-9.000	-9.000	-999.	451.	90.0	0.2160	0.52	1.00	3.60	290.0	15.0	294.4	2.0	0	0.00	74.	1001.	2	NAD-SFC NoSubs
8	9	13	257	23	-31.2	0.296	-9.000	-9.000	-999.	388.	74.6	0.2720	0.52	1.00	3.10	312.0	15.0	293.8	2.0	0	0.00	74.	1001.	2	NAD-SFC NoSubs
8	9	13	257	24	-16.5	0.200	-9.000	-9.000	-999.	219.	43.2	0.2930	0.52	1.00	2.10	350.0	15.0	293.2	2.0	0	0.00	73.	1001.	2	NAD-SFC NoSubs
8	9	14	258	1	-8.3	0.140	-9.000	-9.000	-999.	127.	29.6	0.2940	0.52	1.00	1.50	14.0	15.0	292.9	2.0	0	0.00	73.	1002.	2	NAD-SFC NoSubs
8	9	14	258	2	-4.0	0.102	-9.000	-9.000	-999.	78.	23.6	0.2930	0.52	1.00	1.00	352.0	15.0	292.5	2.0	0	0.00	73.	1002.	2	NAD-SFC NoSubs
8	9	14	258	3	-1.5	0.081	-9.000	-9.000	-999.	55.	31.4	0.2160	0.52	1.00	0.50	291.0	15.0	292.2	2.0	0	0.00	74.	1002.	2	NAD-SFC NoSubs
8	9	14	258	4	-3.6	0.097	-9.000	-9.000	-999.	72.	22.4	0.2160	0.52	1.00	1.00	296.0	15.0	291.6	2.0	0	0.00	77.	1003.	2	NAD-SFC NoSubs
8	9	14	258	5	-8.0	0.137	-9.000	-9.000	-999.	122.	28.7	0.2720	0.52	1.00	1.50	317.0	15.0	291.0	2.0	0	0.00	81.	1003.	2	NAD-SFC NoSubs
8	9	14	258	6	-4.0	0.102	-9.000	-9.000	-999.	79.	23.6	0.2930	0.52	1.00	1.00	341.0	15.0	290.2	2.0	0	0.00	86.	1004.	2	NAD-SFC NoSubs
8	9	14	258	7	1.5	-9.000	-9.000	-9.000	20.	-999.	-99999.0	0.2235	0.52	0.41	0.00	0.0	15.0	290.1	2.0	0	0.00	90.	1004.	2	NAD-SFC NoSubs
8	9	14	258	8	48.5	0.102	0.603	0.012	162.	78.	-2.0	0.2930	0.52	0.26	0.50	331.0	15.0	291.6	2.0	0	0.00	85.	1005.	2	NAD-SFC NoSubs
8	9	14	258	9	91.7	-9.000	-9.000	-9.000	282.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	293.9	2.0	0	0.00	75.	1004.	2	NAD-SFC NoSubs

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 8  9 14 258 10  125.9 -9.000 -9.000 -9.000  402. -999. -99999.0 0.2235 0.52 0.20 0.00   0.0 15.0 296.8 2.0 0 0.00 62. 1004.  2 NAD-SFC NoSubs
 8  9 14 258 11  149.0 -9.000 -9.000 -9.000  547. -999. -99999.0 0.2235 0.52 0.19 0.00   0.0 15.0 298.8 2.0 0 0.00 54. 1004.  2 NAD-SFC NoSubs
 8  9 14 258 12  160.3 -9.000 -9.000 -9.000  669. -999. -99999.0 0.2235 0.52 0.19 0.00   0.0 15.0 300.8 2.0 0 0.00 46. 1003.  2 NAD-SFC NoSubs
 8  9 14 258 13  159.5 -9.000 -9.000 -9.000  772. -999. -99999.0 0.2235 0.52 0.19 0.00   0.0 15.0 302.2 2.0 0 0.00 40. 1002.  2 NAD-SFC NoSubs
 8  9 14 258 14  146.8 -9.000 -9.000 -9.000  856. -999. -99999.0 0.2235 0.52 0.19 0.00   0.0 15.0 303.4 2.0 0 0.00 37. 1001.  2 NAD-SFC NoSubs
 8  9 14 258 15  122.0   0.286   1.464  0.012  919.  367.    -17.1 0.2940 0.52 0.20 2.10   8.0 15.0 303.9 2.0 0 0.00 37. 1001.  2 NAD-SFC NoSubs
 8  9 14 258 16   86.2   0.368   1.323  0.012  961.  536.    -51.6 0.2940 0.52 0.22 3.10  20.0 15.0 303.8 2.0 0 0.00 40. 1001.  2 NAD-SFC NoSubs
 8  9 14 258 17   41.4   0.350   1.043  0.011  977.  497.    -92.3 0.2940 0.52 0.28 3.10  22.0 15.0 302.9 2.0 0 0.00 51. 1001.  2 NAD-SFC NoSubs
 8  9 14 258 18   -9.6   0.311  -9.000 -9.000 -999.  418.    280.6 0.2940 0.52 0.49 3.10  22.0 15.0 301.8 2.0 0 0.00 54. 1001.  2 NAD-SFC NoSubs
 8  9 14 258 19  -16.3   0.200  -9.000 -9.000 -999.  221.     43.8 0.2930 0.52 1.00 2.10 341.0 15.0 300.6 2.0 0 0.00 56. 1002.  2 NAD-SFC NoSubs
 8  9 14 258 20  -43.4   0.420  -9.000 -9.000 -999.  653.    152.6 0.2160 0.52 1.00 4.60 279.0 15.0 299.2 2.0 0 0.00 59. 1002.  2 NAD-SFC NoSubs
 8  9 14 258 21  -38.9   0.373  -9.000 -9.000 -999.  547.    118.6 0.2160 0.52 1.00 4.10 278.0 15.0 295.8 2.0 0 0.00 69. 1002.  2 NAD-SFC NoSubs
 8  9 14 258 22  -31.1   0.297  -9.000 -9.000 -999.  391.     74.9 0.2720 0.52 1.00 3.10 300.0 15.0 294.8 2.0 0 0.00 69. 1003.  2 NAD-SFC NoSubs
 8  9 14 258 23  -24.8   0.246  -9.000 -9.000 -999.  294.     53.8 0.2720 0.52 1.00 2.60 325.0 15.0 294.2 2.0 0 0.00 67. 1003.  2 NAD-SFC NoSubs
 8  9 14 258 24   -8.0   0.137  -9.000 -9.000 -999.  128.     28.8 0.2720 0.52 1.00 1.50 300.0 15.0 293.9 2.0 0 0.00 67. 1003.  2 NAD-SFC NoSubs
 8  9 15 259  1   -8.0   0.137  -9.000 -9.000 -999.  122.     28.8 0.2720 0.52 1.00 1.50 302.0 15.0 293.4 2.0 0 0.00 69. 1004.  2 NAD-SFC NoSubs
 8  9 15 259  2   -8.0   0.137  -9.000 -9.000 -999.  122.     28.8 0.2720 0.52 1.00 1.50 308.0 15.0 292.8 2.0 0 0.00 73. 1004.  2 NAD-SFC NoSubs
 8  9 15 259  3   -3.6   0.097  -9.000 -9.000 -999.   72.     22.4 0.2160 0.52 1.00 1.00 298.0 15.0 292.1 2.0 0 0.00 78. 1004.  2 NAD-SFC NoSubs
 8  9 15 259  4   -1.5   0.081  -9.000 -9.000 -999.   55.     31.4 0.2160 0.52 1.00 0.50 296.0 15.0 291.5 2.0 0 0.00 82. 1005.  2 NAD-SFC NoSubs
 8  9 15 259  5   -1.6   0.083  -9.000 -9.000 -999.   58.     31.9 0.2720 0.52 1.00 0.50 322.0 15.0 291.0 2.0 0 0.00 84. 1005.  2 NAD-SFC NoSubs
 8  9 15 259  6   -1.7   0.084  -9.000 -9.000 -999.   59.     32.0 0.2940 0.52 1.00 0.50   4.0 15.0 290.5 2.0 0 0.00 87. 1006.  2 NAD-SFC NoSubs
 8  9 15 259  7    1.0  -9.000  -9.000 -9.000   20. -999. -99999.0 0.2235 0.52 0.42 0.00   0.0 15.0 290.2 2.0 0 0.00 88. 1006.  2 NAD-SFC NoSubs
 8  9 15 259  8   47.9   0.156   0.647  0.014  203.  148.     -7.2 0.2930 0.52 0.26 1.00 340.0 15.0 291.8 2.0 0 0.00 77. 1006.  2 NAD-SFC NoSubs
 8  9 15 259  9   91.0  -9.000  -9.000 -9.000  286. -999. -99999.0 0.2235 0.52 0.21 0.00   0.0 15.0 293.8 2.0 0 0.00 68. 1006.  2 NAD-SFC NoSubs
 8  9 15 259 10  125.1  -9.000  -9.000 -9.000  372. -999. -99999.0 0.2235 0.52 0.20 0.00   0.0 15.0 296.2 2.0 0 0.00 55. 1005.  2 NAD-SFC NoSubs
 8  9 15 259 11  148.0  -9.000  -9.000 -9.000  499. -999. -99999.0 0.2235 0.52 0.19 0.00   0.0 15.0 298.2 2.0 0 0.00 48. 1004.  2 NAD-SFC NoSubs
 8  9 15 259 12  159.3   0.118   1.401  0.012  618.   98.     -1.0 0.2720 0.52 0.19 0.50 300.0 15.0 300.2 2.0 0 0.00 42. 1003.  2 NAD-SFC NoSubs
 8  9 15 259 13  158.4   0.118   1.466  0.013  711.   98.     -1.0 0.2720 0.52 0.19 0.50 323.0 15.0 301.8 2.0 0 0.00 38. 1002.  2 NAD-SFC NoSubs
 8  9 15 259 14  145.6  -9.000  -9.000 -9.000  785. -999. -99999.0 0.2235 0.52 0.19 0.00   0.0 15.0 303.0 2.0 0 0.00 36. 1001.  2 NAD-SFC NoSubs
 8  9 15 259 15  120.9   0.219   1.416  0.013  841.  245.     -7.7 0.2470 0.52 0.20 1.50  31.0 15.0 303.8 2.0 0 0.00 34. 1001.  2 NAD-SFC NoSubs
 8  9 15 259 16   85.1   0.310   1.279  0.013  877.  413.    -31.1 0.2470 0.52 0.22 2.60  32.0 15.0 303.8 2.0 0 0.00 36. 1000.  2 NAD-SFC NoSubs
 8  9 15 259 17   40.2   0.303   1.002  0.013  893.  401.    -61.9 0.2940 0.52 0.28 2.60  19.0 15.0 302.9 2.0 0 0.00 47. 1000.  2 NAD-SFC NoSubs
 8  9 15 259 18   -9.5   0.258  -9.000 -9.000 -999.  316.    162.4 0.2940 0.52 0.50 2.60  14.0 15.0 301.9 2.0 0 0.00 50. 1000.  2 NAD-SFC NoSubs
 8  9 15 259 19   -3.8   0.100  -9.000 -9.000 -999.  100.     23.3 0.2720 0.52 1.00 1.00 304.0 15.0 300.4 2.0 0 0.00 54. 1001.  2 NAD-SFC NoSubs
 8  9 15 259 20  -20.2   0.218  -9.000 -9.000 -999.  245.     46.0 0.1750 0.52 1.00 2.60 260.0 15.0 299.2 2.0 0 0.00 57. 1001.  2 NAD-SFC NoSubs
 8  9 15 259 21  -43.8   0.420  -9.000 -9.000 -999.  653.    151.2 0.2160 0.52 1.00 4.60 281.0 15.0 296.5 2.0 0 0.00 65. 1002.  2 NAD-SFC NoSubs
 8  9 15 259 22  -34.1   0.325  -9.000 -9.000 -999.  451.     90.1 0.2160 0.52 1.00 3.60 286.0 15.0 294.6 2.0 0 0.00 68. 1002.  2 NAD-SFC NoSubs
 8  9 15 259 23  -24.8   0.246  -9.000 -9.000 -999.  296.     53.8 0.2720 0.52 1.00 2.60 317.0 15.0 294.2 2.0 0 0.00 67. 1003.  2 NAD-SFC NoSubs
 8  9 15 259 24  -15.9   0.195  -9.000 -9.000 -999.  208.     42.0 0.2720 0.52 1.00 2.10 324.0 15.0 293.9 2.0 0 0.00 66. 1003.  2 NAD-SFC NoSubs
 8  9 16 260  1  -24.8   0.246  -9.000 -9.000 -999.  293.     53.7 0.2720 0.52 1.00 2.60 329.0 15.0 293.4 2.0 0 0.00 69. 1003.  2 NAD-SFC NoSubs
 8  9 16 260  2  -16.5   0.200  -9.000 -9.000 -999.  215.     43.2 0.2930 0.52 1.00 2.10 343.0 15.0 292.6 2.0 0 0.00 74. 1003.  2 NAD-SFC NoSubs
 8  9 16 260  3  -16.6   0.200  -9.000 -9.000 -999.  214.     43.1 0.2930 0.52 1.00 2.10 338.0 15.0 291.8 2.0 0 0.00 80. 1004.  2 NAD-SFC NoSubs
 8  9 16 260  4  -16.0   0.195  -9.000 -9.000 -999.  207.     41.7 0.2720 0.52 1.00 2.10 322.0 15.0 291.2 2.0 0 0.00 82. 1004.  2 NAD-SFC NoSubs
 8  9 16 260  5   -8.3   0.140  -9.000 -9.000 -999.  126.     29.5 0.2930 0.52 1.00 1.50 330.0 15.0 290.6 2.0 0 0.00 83. 1004.  2 NAD-SFC NoSubs
 8  9 16 260  6   -8.3   0.140  -9.000 -9.000 -999.  125.     29.5 0.2930 0.52 1.00 1.50 352.0 15.0 290.2 2.0 0 0.00 84. 1005.  2 NAD-SFC NoSubs
 8  9 16 260  7    0.4   0.060   0.059  0.015   17.   38.    -46.3 0.2940 0.52 0.42 0.50  15.0 15.0 290.0 2.0 0 0.00 84. 1005.  2 NAD-SFC NoSubs
 8  9 16 260  8   47.2   0.156   0.615  0.014  177.  148.     -7.2 0.2930 0.52 0.26 1.00 350.0 15.0 291.5 2.0 0 0.00 71. 1005.  2 NAD-SFC NoSubs
 8  9 16 260  9   90.3  -9.000  -9.000 -9.000  266. -999. -99999.0 0.2235 0.52 0.21 0.00   0.0 15.0 293.4 2.0 0 0.00 65. 1005.  2 NAD-SFC NoSubs
 8  9 16 260 10  124.2  -9.000  -9.000 -9.000  348. -999. -99999.0 0.2235 0.52 0.20 0.00   0.0 15.0 295.8 2.0 0 0.00 54. 1004.  2 NAD-SFC NoSubs
 8  9 16 260 11  147.1  -9.000  -9.000 -9.000  469. -999. -99999.0 0.2235 0.52 0.19 0.00   0.0 15.0 297.8 2.0 0 0.00 49. 1003.  2 NAD-SFC NoSubs
 8  9 16 260 12  158.3  -9.000  -9.000 -9.000  611. -999. -99999.0 0.2235 0.52 0.19 0.00   0.0 15.0 299.8 2.0 0 0.00 44. 1002.  2 NAD-SFC NoSubs
 8  9 16 260 13  157.4   0.118   1.470  0.012  721.   97.     -1.0 0.2720 0.52 0.19 0.50 322.0 15.0 301.4 2.0 0 0.00 40. 1001.  2 NAD-SFC NoSubs
 8  9 16 260 14  144.5   0.119   1.483  0.012  807.   98.     -1.0 0.2930 0.52 0.19 0.50 334.0 15.0 302.8 2.0 0 0.00 37. 1000.  2 NAD-SFC NoSubs
 8  9 16 260 15  119.7   0.176   1.430  0.013  871.  177.     -4.0 0.2930 0.52 0.20 1.00 350.0 15.0 303.5 2.0 0 0.00 35.  999.  2 NAD-SFC NoSubs
 8  9 16 260 16   84.0   0.321   1.291  0.012  914.  437.    -35.1 0.2940 0.52 0.22 2.60  14.0 15.0 303.9 2.0 0 0.00 36.  999.  2 NAD-SFC NoSubs
 8  9 16 260 17   39.1   0.349   1.007  0.012  931.  494.    -96.7 0.2940 0.52 0.29 3.10  25.0 15.0 303.0 2.0 0 0.00 47.  999.  2 NAD-SFC NoSubs
 8  9 16 260 18  -10.9   0.258  -9.000 -9.000 -999.  318.    139.9 0.2940 0.52 0.51 2.60   5.0 15.0 302.1 2.0 0 0.00 50. 1000.  2 NAD-SFC NoSubs
 8  9 16 260 19  -48.1   0.468  -9.000 -9.000 -999.  768.    189.9 0.2160 0.52 1.00 5.10 276.0 15.0 300.4 2.0 0 0.00 54. 1001.  2 NAD-SFC NoSubs
 8  9 16 260 20  -52.0   0.497  -9.000 -9.000 -999.  841.    211.5 0.1750 0.52 1.00 5.70 266.0 15.0 295.8 2.0 0 0.00 67. 1002.  2 NAD-SFC NoSubs
 8  9 16 260 21  -46.5   0.443  -9.000 -9.000 -999.  710.    166.8 0.1750 0.52 1.00 5.10 268.0 15.0 294.1 2.0 0 0.00 67. 1002.  2 NAD-SFC NoSubs
 8  9 16 260 22  -34.3   0.325  -9.000 -9.000 -999.  455.     89.6 0.2160 0.52 1.00 3.60 277.0 15.0 293.1 2.0 0 0.00 68. 1003.  2 NAD-SFC NoSubs
 8  9 16 260 23  -15.9   0.195  -9.000 -9.000 -999.  218.     41.9 0.2720 0.52 1.00 2.10 327.0 15.0 292.8 2.0 0 0.00 68. 1004.  2 NAD-SFC NoSubs
 8  9 16 260 24  -16.0   0.195  -9.000 -9.000 -999.  207.     41.8 0.2720 0.52 1.00 2.10 328.0 15.0 292.2 2.0 0 0.00 68. 1004.  2 NAD-SFC NoSubs
 8  9 17 261  1  -31.5   0.296  -9.000 -9.000 -999.  387.     74.1 0.2720 0.52 1.00 3.10 319.0 15.0 291.8 2.0 0 0.00 69. 1004.  2 NAD-SFC NoSubs
 8  9 17 261  2  -30.8   0.297  -9.000 -9.000 -999.  388.     76.0 0.2720 0.52 1.00 3.10 310.0 15.0 291.1 2.0 0 0.00 70. 1005.  3 NAD-SFC NoSubs
 8  9 17 261  3  -24.7   0.246  -9.000 -9.000 -999.  294.     54.2 0.2720 0.52 1.00 2.60 319.0 15.0 290.8 2.0 0 0.00 72. 1005.  3 NAD-SFC NoSubs
 8  9 17 261  4  -25.6   0.252  -9.000 -9.000 -999.  303.     55.8 0.2930 0.52 1.00 2.60 340.0 15.0 290.4 2.0 0 0.00 74. 1005.  3 NAD-SFC NoSubs
 8  9 17 261  5  -16.4   0.200  -9.000 -9.000 -999.  215.     43.6 0.2930 0.52 1.00 2.10 347.0 15.0 289.9 2.0 0 0.00 78. 1005.  3 NAD-SFC NoSubs
 8  9 17 261  6   -8.3   0.140  -9.000 -9.000 -999.  126.     29.4 0.2930 0.52 1.00 1.50 351.0 15.0 289.5 2.0 0 0.00 81. 1006.  2 NAD-SFC NoSubs
 8  9 17 261  7   -0.3   0.155  -9.000 -9.000 -999.  146.   1292.6 0.2930 0.52 0.42 1.50 349.0 15.0 289.4 2.0 0 0.00 81. 1006.  2 NAD-SFC NoSubs
 8  9 17 261  8   46.3   0.156   0.650  0.011  212.  148.     -7.3 0.2930 0.52 0.26 1.00 347.0 15.0 290.6 2.0 0 0.00 72. 1006.  2 NAD-SFC NoSubs
 8  9 17 261  9   89.4  -9.000  -9.000 -9.000  334. -999. -99999.0 0.2235 0.52 0.21 0.00   0.0 15.0 292.6 2.0 0 0.00 63. 1006.  2 NAD-SFC NoSubs
 8  9 17 261 10  123.1  -9.000  -9.000 -9.000  455. -999. -99999.0 0.2235 0.52 0.20 0.00   0.0 15.0 294.5 2.0 0 0.00 57. 1006.  2 NAD-SFC NoSubs
 8  9 17 261 11  145.8  -9.000  -9.000 -9.000  568. -999. -99999.0 0.2235 0.52 0.19 0.00   0.0 15.0 296.2 2.0 0 0.00 54. 1005.  2 NAD-SFC NoSubs
 8  9 17 261 12  156.8   0.118   1.432  0.010  672.   97.     -1.0 0.2720 0.52 0.19 0.50 315.0 15.0 298.2 2.0 0 0.00 49. 1004.  2 NAD-SFC NoSubs
 8  9 17 261 13  155.7   0.178   1.495  0.010  769.  180.     -3.2 0.2720 0.52 0.19 1.00 319.0 15.0 299.6 2.0 0 0.00 44. 1003.  2 NAD-SFC NoSubs
 8  9 17 261 14  142.5   0.228   1.500  0.010  848.  261.     -7.4 0.2720 0.52 0.19 1.50 326.0 15.0 300.6 2.0 0 0.00 42. 1003.  2 NAD-SFC NoSubs
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 8  9 17 261 15  117.5  0.330  1.439  0.010  908.  456.    -27.4  0.2930  0.52  0.20   2.60  340.0  15.0  301.2  2.0   0  0.00  41.  1002.   2 NAD-SFC NoSubs
 8  9 17 261 16   81.5  0.366  1.292  0.010  947.  531.    -53.8  0.2930  0.52  0.22   3.10  358.0  15.0  301.2  2.0   0  0.00  43.  1002.   2 NAD-SFC NoSubs
 8  9 17 261 17   36.7  0.301  0.997  0.010  963.  399.    -66.4  0.2940  0.52  0.29   2.60    8.0  15.0  300.6  2.0   0  0.00  53.  1001.   2 NAD-SFC NoSubs
 8  9 17 261 18  -19.2  0.360 -9.000 -9.000 -999.  518.    216.0  0.2940  0.52  0.52   3.60   24.0  15.0  299.6  2.0   0  0.00  56.  1002.   2 NAD-SFC NoSubs
 8  9 17 261 19  -16.4  0.200 -9.000 -9.000 -999.  234.     43.7  0.2940  0.52  1.00   2.10    6.0  15.0  298.6  2.0   0  0.00  59.  1002.   2 NAD-SFC NoSubs
 8  9 17 261 20  -22.1  0.231 -9.000 -9.000 -999.  266.     49.6  0.2160  0.52  1.00   2.60  279.0  15.0  297.8  2.0   0  0.00  62.  1002.   2 NAD-SFC NoSubs
 8  9 17 261 21  -46.5  0.443 -9.000 -9.000 -999.  707.    167.1  0.1750  0.52  1.00   5.10  266.0  15.0  294.8  2.0   0  0.00  67.  1003.   2 NAD-SFC NoSubs
 8  9 17 261 22  -44.4  0.420 -9.000 -9.000 -999.  654.    149.1  0.2160  0.52  1.00   4.60  277.0  15.0  292.6  2.0   0  0.00  66.  1003.   2 NAD-SFC NoSubs
 8  9 17 261 23  -29.5  0.278 -9.000 -9.000 -999.  366.     65.2  0.2160  0.52  1.00   3.10  288.0  15.0  291.8  2.0   0  0.00  68.  1003.   2 NAD-SFC NoSubs
 8  9 17 261 24  -31.5  0.296 -9.000 -9.000 -999.  387.     74.0  0.2720  0.52  1.00   3.10  309.0  15.0  291.2  2.0   0  0.00  70.  1003.   2 NAD-SFC NoSubs
 8  9 18 262  1  -31.5  0.296 -9.000 -9.000 -999.  387.     73.9  0.2720  0.52  1.00   3.10  322.0  15.0  291.1  2.0   0  0.00  71.  1004.   2 NAD-SFC NoSubs
 8  9 18 262  2  -25.9  0.251 -9.000 -9.000 -999.  303.     55.1  0.2930  0.52  1.00   2.60  341.0  15.0  290.8  2.0   0  0.00  72.  1004.   2 NAD-SFC NoSubs
 8  9 18 262  3  -16.4  0.200 -9.000 -9.000 -999.  215.     43.6  0.2930  0.52  1.00   2.10  350.0  15.0  290.2  2.0   0  0.00  75.  1004.   3 NAD-SFC NoSubs
 8  9 18 262  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  289.8  2.0   0  0.00  77.  1004.   3 NAD-SFC NoSubs
 8  9 18 262  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  289.2  2.0   0  0.00  80.  1004.   3 NAD-SFC NoSubs
 8  9 18 262  6   -4.1  0.102 -9.000 -9.000 -999.   79.     23.6  0.2930  0.52  1.00   1.00  352.0  15.0  288.8  2.0   0  0.00  82.  1005.   2 NAD-SFC NoSubs
 8  9 18 262  7   -0.7  0.099 -9.000 -9.000 -999.   75.    128.5  0.2930  0.52  0.43   1.00  347.0  15.0  288.6  2.0   0  0.00  82.  1005.   2 NAD-SFC NoSubs
 8  9 18 262  8   45.4  0.204  0.625  0.010  193.  221.    -16.8  0.2930  0.52  0.26   1.50  352.0  15.0  289.9  2.0   0  0.00  72.  1006.   2 NAD-SFC NoSubs
 8  9 18 262  9   88.6 -9.000 -9.000 -9.000  313. -999. -99999.0  0.2235  0.52  0.21   0.00    0.0  15.0  292.1  2.0   0  0.00  62.  1006.   2 NAD-SFC NoSubs
 8  9 18 262 10  122.2 -9.000 -9.000 -9.000  436. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  294.0  2.0   0  0.00  54.  1005.   2 NAD-SFC NoSubs
 8  9 18 262 11  144.8 -9.000 -9.000 -9.000  564. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  295.8  2.0   0  0.00  50.  1005.   2 NAD-SFC NoSubs
 8  9 18 262 12  155.8 -9.000 -9.000 -9.000  683. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  297.6  2.0   0  0.00  46.  1004.   2 NAD-SFC NoSubs
 8  9 18 262 13  154.5  0.118  1.514  0.010  804.   97.    -1.0  0.2720  0.52  0.19   0.50  307.0  15.0  298.9  2.0   0  0.00  43.  1003.   2 NAD-SFC NoSubs
 8  9 18 262 14  141.2  0.176  1.527  0.011  901.  178.    -3.5  0.2720  0.52  0.19   1.00  327.0  15.0  299.9  2.0   0  0.00  41.  1002.   2 NAD-SFC NoSubs
 8  9 18 262 15  116.1  0.226  1.467  0.011  973.  258.    -8.9  0.2930  0.52  0.20   1.50  345.0  15.0  300.5  2.0   0  0.00  40.  1002.   2 NAD-SFC NoSubs
 8  9 18 262 16   80.1  0.320  1.310  0.010 1004.  434.    -36.5  0.2940  0.52  0.22   2.60    4.0  15.0  300.6  2.0   0  0.00  41.  1001.   2 NAD-SFC NoSubs
 8  9 18 262 17   35.3  0.255  1.001  0.010 1016.  310.    -41.9  0.2940  0.52  0.29   2.10    9.0  15.0  300.1  2.0   0  0.00  51.  1001.   2 NAD-SFC NoSubs
 8  9 18 262 18  -15.2  0.256 -9.000 -9.000 -999.  310.     98.5  0.2940  0.52  0.53   2.60   16.0  15.0  299.2  2.0   0  0.00  54.  1002.   2 NAD-SFC NoSubs
 8  9 18 262 19   -8.2  0.140 -9.000 -9.000 -999.  133.     29.9  0.2930  0.52  1.00   1.50  345.0  15.0  298.2  2.0   0  0.00  57.  1002.   2 NAD-SFC NoSubs
 8  9 18 262 20  -48.9  0.468 -9.000 -9.000 -999.  767.    186.8  0.2160  0.52  1.00   5.10  277.0  15.0  295.6  2.0   0  0.00  61.  1003.   2 NAD-SFC NoSubs
 8  9 18 262 21  -44.5  0.420 -9.000 -9.000 -999.  655.    148.9  0.2160  0.52  1.00   4.60  270.0  15.0  292.2  2.0   0  0.00  63.  1004.   2 NAD-SFC NoSubs
 8  9 18 262 22  -39.6  0.372 -9.000 -9.000 -999.  547.    116.7  0.2160  0.52  1.00   4.10  275.0  15.0  291.1  2.0   0  0.00  67.  1004.   2 NAD-SFC NoSubs
 8  9 18 262 23  -33.9  0.325 -9.000 -9.000 -999.  447.     91.1  0.2160  0.52  1.00   3.60  281.0  15.0  290.2  2.0   0  0.00  68.  1005.   3 NAD-SFC NoSubs
 8  9 18 262 24  -24.7  0.246 -9.000 -9.000 -999.  296.     54.1  0.2720  0.52  1.00   2.60  303.0  15.0  289.8  2.0   0  0.00  69.  1005.   3 NAD-SFC NoSubs
 8  9 19 263  1  -16.4  0.200 -9.000 -9.000 -999.  215.     43.5  0.2930  0.52  1.00   2.10  330.0  15.0  289.2  2.0   0  0.00  68.  1005.   3 NAD-SFC NoSubs
 8  9 19 263  2  -25.7  0.252 -9.000 -9.000 -999.  303.     55.7  0.2930  0.52  1.00   2.60  337.0  15.0  289.0  2.0   0  0.00  70.  1006.   3 NAD-SFC NoSubs
 8  9 19 263  3  -16.5  0.200 -9.000 -9.000 -999.  215.     43.5  0.2930  0.52  1.00   2.10  330.0  15.0  288.5  2.0   0  0.00  72.  1006.   3 NAD-SFC NoSubs
 8  9 19 263  4  -15.9  0.195 -9.000 -9.000 -999.  207.     42.1  0.2720  0.52  1.00   2.10  320.0  15.0  288.0  2.0   0  0.00  74.  1006.   3 NAD-SFC NoSubs
 8  9 19 263  5   -8.0  0.137 -9.000 -9.000 -999.  122.     28.9  0.2720  0.52  1.00   1.50  309.0  15.0  287.6  2.0   0  0.00  75.  1006.   3 NAD-SFC NoSubs
 8  9 19 263  6   -3.9  0.100 -9.000 -9.000 -999.   77.     23.3  0.2720  0.52  1.00   1.00  311.0  15.0  287.2  2.0   0  0.00  77.  1007.   3 NAD-SFC NoSubs
 8  9 19 263  7   -0.3  0.099 -9.000 -9.000 -999.   74.    336.7  0.2720  0.52  0.43   1.00  309.0  15.0  287.2  2.0   0  0.00  78.  1007.   3 NAD-SFC NoSubs
 8  9 19 263  8   44.4  0.099  0.631  0.011  202.   75.     -2.0  0.2720  0.52  0.26   0.50  317.0  15.0  288.6  2.0   0  0.00  71.  1007.   2 NAD-SFC NoSubs
 8  9 19 263  9   87.4 -9.000 -9.000 -9.000  321. -999. -99999.0  0.2235  0.52  0.21   0.00    0.0  15.0  290.5  2.0   0  0.00  61.  1007.   2 NAD-SFC NoSubs
 8  9 19 263 10  120.9 -9.000 -9.000 -9.000  438. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  292.1  2.0   0  0.00  56.  1007.   2 NAD-SFC NoSubs
 8  9 19 263 11  143.5 -9.000 -9.000 -9.000  550. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  294.0  2.0   0  0.00  50.  1006.   2 NAD-SFC NoSubs
 8  9 19 263 12  154.2 -9.000 -9.000 -9.000  650. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  295.6  2.0   0  0.00  45.  1005.   2 NAD-SFC NoSubs
 8  9 19 263 13  152.9 -9.000 -9.000 -9.000  784. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  297.2  2.0   0  0.00  40.  1004.   2 NAD-SFC NoSubs
 8  9 19 263 14  139.5 -9.000 -9.000 -9.000  892. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  298.2  2.0   0  0.00  35.  1003.   2 NAD-SFC NoSubs
 8  9 19 263 15  114.4  0.113  1.459  0.008  973.   91.    -1.1  0.2720  0.52  0.20   0.50  300.0  15.0  299.0  2.0   0  0.00  31.  1002.   2 NAD-SFC NoSubs
 8  9 19 263 16   78.3  0.166  1.305  0.008 1015.  163.    -5.2  0.2940  0.52  0.22   1.00    3.0  15.0  299.2  2.0   0  0.00  30.  1002.   2 NAD-SFC NoSubs
 8  9 19 263 17   33.6  0.191  0.990  0.008 1033.  200.    -18.5  0.2470  0.52  0.30   1.50   32.0  15.0  299.0  2.0   0  0.00  36.  1001.   2 NAD-SFC NoSubs
 8  9 19 263 18  -12.2  0.194 -9.000 -9.000 -999.  204.     53.0  0.2470  0.52  0.54   2.10   45.0  15.0  298.0  2.0   0  0.00  41.  1002.   2 NAD-SFC NoSubs
 8  9 19 263 19   -8.2  0.140 -9.000 -9.000 -999.  126.     29.8  0.2940  0.52  1.00   1.50   14.0  15.0  296.5  2.0   0  0.00  48.  1002.   2 NAD-SFC NoSubs
 8  9 19 263 20  -28.4  0.278 -9.000 -9.000 -999.  352.     67.8  0.2160  0.52  1.00   3.10  281.0  15.0  295.2  2.0   0  0.00  53.  1003.   3 NAD-SFC NoSubs
 8  9 19 263 21  -38.4  0.373 -9.000 -9.000 -999.  546.    120.4  0.2160  0.52  1.00   4.10  277.0  15.0  292.2  2.0   0  0.00  75.  1003.   3 NAD-SFC NoSubs
 8  9 19 263 22  -36.6  0.353 -9.000 -9.000 -999.  504.    107.5  0.1750  0.52  1.00   4.10  267.0  15.0  290.8  2.0   0  0.00  89.  1004.   3 NAD-SFC NoSubs
 8  9 19 263 23  -36.7  0.353 -9.000 -9.000 -999.  503.    107.2  0.1750  0.52  1.00   4.10  267.0  15.0  290.1  2.0   0  0.00  91.  1004.   3 NAD-SFC NoSubs
 8  9 19 263 24  -29.0  0.278 -9.000 -9.000 -999.  355.     66.5  0.2160  0.52  1.00   3.10  270.0  15.0  289.8  2.0   0  0.00  92.  1004.   3 NAD-SFC NoSubs
 8  9 20 264  1   -6.4  0.122 -9.000 -9.000 -999.  124.     25.4  0.1750  0.52  1.00   1.50  266.0  15.0  289.5  2.0   0  0.00  93.  1005.   4 NAD-SFC NoSubs
 8  9 20 264  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  289.5  2.0   0  0.00  94.  1005.   5 NAD-SFC NoSubs
 8  9 20 264  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  289.5  2.0   0  0.00  94.  1005.   7 NAD-SFC NoSubs
 8  9 20 264  4   -0.9  0.064 -9.000 -9.000 -999.   39.     26.3  0.2930  0.52  1.00   0.50  358.0  15.0  289.6  2.0   0  0.00  94.  1005.  10 NAD-SFC NoSubs
 8  9 20 264  5   -0.9  0.064 -9.000 -9.000 -999.   39.     26.1  0.2720  0.52  1.00   0.50  329.0  15.0  289.8  2.0   0  0.00  94.  1005.  10 NAD-SFC NoSubs
 8  9 20 264  6   -5.8  0.139 -9.000 -9.000 -999.  125.     41.6  0.2720  0.52  1.00   1.50  312.0  15.0  289.8  2.0   0  0.25  94.  1005.  10 NAD-SFC NoSubs
 8  9 20 264  7   -3.0  0.135 -9.000 -9.000 -999.  119.     72.9  0.2160  0.52  0.44   1.50  297.0  15.0  289.8  2.0   0  0.25  94.  1006.  10 NAD-SFC NoSubs
 8  9 20 264  8    9.2  0.174  0.269  0.005   75.  174.    -51.5  0.2720  0.52  0.26   1.50  303.0  15.0  290.0  2.0   0  0.25  94.  1006.  10 NAD-SFC NoSubs
 8  9 20 264  9   20.0  0.185  0.550  0.005  299.  192.    -28.6  0.2720  0.52  0.21   1.50  318.0  15.0  290.5  2.0   0  0.00  91.  1006.  10 NAD-SFC NoSubs
 8  9 20 264 10  119.3 -9.000 -9.000 -9.000  552. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  292.2  2.0   0  0.00  79.  1006.   4 NAD-SFC NoSubs
 8  9 20 264 11  140.9 -9.000 -9.000 -9.000  739. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  293.4  2.0   0  0.00  72.  1005.   4 NAD-SFC NoSubs
 8  9 20 264 12  152.8 -9.000 -9.000 -9.000  931. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  294.1  2.0   0  0.00  68.  1004.   3 NAD-SFC NoSubs
 8  9 20 264 13  151.3 -9.000 -9.000 -9.000 1077. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  295.2  2.0   0  0.00  62.  1004.   3 NAD-SFC NoSubs
 8  9 20 264 14  136.3 -9.000 -9.000 -9.000 1192. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  296.2  2.0   0  0.00  57.  1003.   4 NAD-SFC NoSubs
 8  9 20 264 15  111.8  0.114  1.587  0.009 1278.   93.    -1.2  0.2940  0.52  0.20   0.50   23.0  15.0  296.9  2.0   0  0.00  54.  1002.   4 NAD-SFC NoSubs
 8  9 20 264 16   76.7  0.166  1.420  0.010 1334.  162.    -5.3  0.2940  0.52  0.22   1.00    8.0  15.0  297.2  2.0   0  0.00  53.  1002.   4 NAD-SFC NoSubs
 8  9 20 264 17   33.4  0.198  1.080  0.010 1348.  212.    -20.8  0.2940  0.52  0.30   1.50   28.0  15.0  297.2  2.0   0  0.00  57.  1002.   4 NAD-SFC NoSubs
 8  9 20 264 18  -14.6  0.243 -9.000 -9.000 -999.  288.     87.8  0.2470  0.52  0.55   2.60   42.0  15.0  296.8  2.0   0  0.00  61.  1002.   4 NAD-SFC NoSubs
 8  9 20 264 19  -22.9  0.240 -9.000 -9.000 -999.  282.     53.8  0.2470  0.52  1.00   2.60   52.0  15.0  295.5  2.0   0  0.00  66.  1002.   4 NAD-SFC NoSubs
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8	9	20	264	20	-13.3	0.182	-9.000	-9.000	-999.	188.	40.5	0.2090	0.52	1.00	2.10	72.0	15.0	294.2	2.0	0	0.00	72.	1002.	5	NAD-SFC NoSubs
8	9	20	264	21	-1.3	0.075	-9.000	-9.000	-999.	57.	29.5	0.2090	0.52	1.00	0.50	85.0	15.0	293.1	2.0	0	0.00	78.	1003.	6	NAD-SFC NoSubs
8	9	20	264	22	-7.6	0.140	-9.000	-9.000	-999.	126.	32.4	0.2930	0.52	1.00	1.50	335.0	15.0	292.2	2.0	0	0.00	82.	1003.	6	NAD-SFC NoSubs
8	9	20	264	23	-22.5	0.253	-9.000	-9.000	-999.	305.	64.4	0.2930	0.52	1.00	2.60	333.0	15.0	291.4	2.0	0	0.00	86.	1003.	6	NAD-SFC NoSubs
8	9	20	264	24	-20.3	0.248	-9.000	-9.000	-999.	296.	67.1	0.2720	0.52	1.00	2.60	329.0	15.0	290.8	2.0	0	0.00	89.	1003.	7	NAD-SFC NoSubs
8	9	21	265	1	-14.7	0.202	-9.000	-9.000	-999.	218.	50.0	0.2930	0.52	1.00	2.10	340.0	15.0	290.2	2.0	0	0.00	91.	1003.	7	NAD-SFC NoSubs
8	9	21	265	2	-7.6	0.140	-9.000	-9.000	-999.	127.	32.3	0.2930	0.52	1.00	1.50	342.0	15.0	289.8	2.0	0	0.00	92.	1003.	6	NAD-SFC NoSubs
8	9	21	265	3	-3.7	0.100	-9.000	-9.000	-999.	76.	23.8	0.2930	0.52	1.00	1.00	334.0	15.0	289.2	2.0	0	0.00	94.	1003.	5	NAD-SFC NoSubs
8	9	21	265	4	-3.8	0.099	-9.000	-9.000	-999.	75.	23.3	0.2720	0.52	1.00	1.00	325.0	15.0	289.0	2.0	0	0.00	95.	1003.	4	NAD-SFC NoSubs
8	9	21	265	5	-7.9	0.137	-9.000	-9.000	-999.	121.	28.9	0.2720	0.52	1.00	1.50	321.0	15.0	288.6	2.0	0	0.00	97.	1003.	3	NAD-SFC NoSubs
8	9	21	265	6	-16.5	0.200	-9.000	-9.000	-999.	214.	43.4	0.2930	0.52	1.00	2.10	335.0	15.0	288.2	2.0	0	0.00	98.	1004.	3	NAD-SFC NoSubs
8	9	21	265	7	-1.8	0.208	-9.000	-9.000	-999.	228.	453.9	0.2720	0.52	0.44	2.10	326.0	15.0	288.2	2.0	0	0.00	97.	1004.	3	NAD-SFC NoSubs
8	9	21	265	8	44.2	0.259	0.684	0.005	259.	317.	-35.2	0.2930	0.52	0.27	2.10	331.0	15.0	288.8	2.0	0	0.00	93.	1004.	3	NAD-SFC NoSubs
8	9	21	265	9	86.3	0.271	1.096	0.005	546.	339.	-20.7	0.2720	0.52	0.21	2.10	324.0	15.0	289.2	2.0	0	0.00	89.	1004.	3	NAD-SFC NoSubs
8	9	21	265	10	119.2	0.113	1.358	0.007	753.	114.	-1.1	0.2720	0.52	0.20	0.50	302.0	15.0	291.2	2.0	0	0.00	77.	1004.	2	NAD-SFC NoSubs
8	9	21	265	11	141.7	-9.000	-9.000	-9.000	918.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	293.2	2.0	0	0.00	66.	1004.	2	NAD-SFC NoSubs
8	9	21	265	12	152.1	-9.000	-9.000	-9.000	1021.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.5	2.0	0	0.00	60.	1003.	2	NAD-SFC NoSubs
8	9	21	265	13	150.5	-9.000	-9.000	-9.000	1090.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.5	2.0	0	0.00	57.	1002.	2	NAD-SFC NoSubs
8	9	21	265	14	136.7	0.118	1.638	0.013	1150.	97.	-1.1	0.2930	0.52	0.19	0.50	342.0	15.0	296.2	2.0	0	0.00	55.	1001.	2	NAD-SFC NoSubs
8	9	21	265	15	111.3	0.225	1.550	0.014	1197.	256.	-9.1	0.2930	0.52	0.20	1.50	352.0	15.0	296.8	2.0	0	0.00	54.	1001.	2	NAD-SFC NoSubs
8	9	21	265	16	76.2	0.364	1.379	0.015	1229.	528.	-56.6	0.2930	0.52	0.22	3.10	350.0	15.0	298.1	2.0	0	0.00	46.	1000.	3	NAD-SFC NoSubs
8	9	21	265	17	30.5	0.344	1.020	0.015	1241.	484.	-118.5	0.2930	0.52	0.30	3.10	356.0	15.0	297.6	2.0	0	0.00	55.	1000.	2	NAD-SFC NoSubs
8	9	21	265	18	-31.2	0.408	-9.000	-9.000	-999.	626.	195.0	0.2930	0.52	0.56	4.10	351.0	15.0	296.0	2.0	0	0.00	60.	1001.	2	NAD-SFC NoSubs
8	9	21	265	19	-37.2	0.354	-9.000	-9.000	-999.	508.	106.9	0.2930	0.52	1.00	3.60	341.0	15.0	294.4	2.0	0	0.00	62.	1001.	2	NAD-SFC NoSubs
8	9	21	265	20	-37.3	0.354	-9.000	-9.000	-999.	506.	106.6	0.2930	0.52	1.00	3.60	330.0	15.0	293.6	2.0	0	0.00	60.	1001.	2	NAD-SFC NoSubs
8	9	21	265	21	-31.3	0.296	-9.000	-9.000	-999.	389.	74.4	0.2720	0.52	1.00	3.10	318.0	15.0	292.8	2.0	0	0.00	60.	1001.	2	NAD-SFC NoSubs
8	9	21	265	22	-31.4	0.296	-9.000	-9.000	-999.	387.	74.2	0.2720	0.52	1.00	3.10	310.0	15.0	291.9	2.0	0	0.00	62.	1002.	2	NAD-SFC NoSubs
8	9	21	265	23	-24.6	0.246	-9.000	-9.000	-999.	294.	54.3	0.2720	0.52	1.00	2.60	307.0	15.0	291.1	2.0	0	0.00	65.	1002.	3	NAD-SFC NoSubs
8	9	21	265	24	-24.6	0.246	-9.000	-9.000	-999.	293.	54.2	0.2720	0.52	1.00	2.60	320.0	15.0	290.2	2.0	0	0.00	68.	1002.	3	NAD-SFC NoSubs
8	9	22	266	1	-25.5	0.252	-9.000	-9.000	-999.	303.	55.8	0.2930	0.52	1.00	2.60	332.0	15.0	289.8	2.0	0	0.00	72.	1002.	3	NAD-SFC NoSubs
8	9	22	266	2	-8.2	0.140	-9.000	-9.000	-999.	132.	29.8	0.2930	0.52	1.00	1.50	335.0	15.0	289.2	2.0	0	0.00	77.	1003.	3	NAD-SFC NoSubs
8	9	22	266	3	-3.9	0.100	-9.000	-9.000	-999.	76.	23.3	0.2720	0.52	1.00	1.00	308.0	15.0	288.8	2.0	0	0.00	82.	1003.	3	NAD-SFC NoSubs
8	9	22	266	4	-1.6	0.083	-9.000	-9.000	-999.	57.	31.7	0.2720	0.52	1.00	0.50	308.0	15.0	288.2	2.0	0	0.00	85.	1003.	3	NAD-SFC NoSubs
8	9	22	266	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	288.0	2.0	0	0.00	88.	1003.	2	NAD-SFC NoSubs
8	9	22	266	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	287.5	2.0	0	0.00	92.	1004.	2	NAD-SFC NoSubs
8	9	22	266	7	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.44	0.00	0.0	15.0	287.1	2.0	0	0.00	95.	1004.	2	NAD-SFC NoSubs
8	9	22	266	8	42.6	-9.000	-9.000	-9.000	233.	-999.	-99999.0	0.2235	0.52	0.27	0.00	0.0	15.0	289.2	2.0	0	0.00	86.	1004.	2	NAD-SFC NoSubs
8	9	22	266	9	85.5	-9.000	-9.000	-9.000	348.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	291.0	2.0	0	0.00	76.	1004.	2	NAD-SFC NoSubs
8	9	22	266	10	118.9	-9.000	-9.000	-9.000	526.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	292.8	2.0	0	0.00	65.	1004.	2	NAD-SFC NoSubs
8	9	22	266	11	141.3	-9.000	-9.000	-9.000	692.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.5	2.0	0	0.00	57.	1003.	2	NAD-SFC NoSubs
8	9	22	266	12	151.8	0.112	1.503	0.009	801.	90.	-1.0	0.2160	0.52	0.19	0.50	296.0	15.0	296.0	2.0	0	0.00	50.	1003.	2	NAD-SFC NoSubs
8	9	22	266	13	150.2	0.178	1.555	0.009	897.	180.	-3.3	0.2720	0.52	0.19	1.00	306.0	15.0	297.2	2.0	0	0.00	44.	1002.	2	NAD-SFC NoSubs
8	9	22	266	14	136.5	0.226	1.550	0.009	976.	259.	-7.6	0.2720	0.52	0.20	1.50	312.0	15.0	298.2	2.0	0	0.00	40.	1001.	2	NAD-SFC NoSubs
8	9	22	266	15	111.0	0.278	1.472	0.009	1028.	352.	-17.3	0.2720	0.52	0.20	2.10	326.0	15.0	298.8	2.0	0	0.00	38.	1001.	2	NAD-SFC NoSubs
8	9	22	266	16	74.5	0.318	1.303	0.009	1061.	430.	-38.5	0.2930	0.52	0.23	2.60	340.0	15.0	298.8	2.0	0	0.00	38.	1001.	2	NAD-SFC NoSubs
8	9	22	266	17	29.6	0.251	0.962	0.009	1074.	304.	-47.9	0.2940	0.52	0.31	2.10	5.0	15.0	298.2	2.0	0	0.00	47.	1001.	2	NAD-SFC NoSubs
8	9	22	266	18	-20.0	0.254	-9.000	-9.000	-999.	307.	73.3	0.2940	0.52	0.58	2.60	21.0	15.0	297.5	2.0	0	0.00	49.	1001.	2	NAD-SFC NoSubs
8	9	22	266	19	-7.6	0.133	-9.000	-9.000	-999.	125.	28.0	0.2470	0.52	1.00	1.50	44.0	15.0	296.2	2.0	0	0.00	54.	1001.	2	NAD-SFC NoSubs
8	9	22	266	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	294.8	2.0	0	0.00	59.	1002.	2	NAD-SFC NoSubs
8	9	22	266	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	293.4	2.0	0	0.00	66.	1002.	2	NAD-SFC NoSubs
8	9	22	266	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	292.2	2.0	0	0.00	70.	1002.	2	NAD-SFC NoSubs
8	9	22	266	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	291.2	2.0	0	0.00	73.	1002.	2	NAD-SFC NoSubs
8	9	22	266	24	-1.5	0.081	-9.000	-9.000	-999.	55.	31.4	0.2090	0.52	1.00	0.50	78.0	15.0	290.5	2.0	0	0.00	76.	1002.	2	NAD-SFC NoSubs
8	9	23	267	1	-1.5	0.081	-9.000	-9.000	-999.	55.	31.4	0.2130	0.52	1.00	0.50	91.0	15.0	289.8	2.0	0	0.00	79.	1002.	2	NAD-SFC NoSubs
8	9	23	267	2	-1.5	0.080	-9.000	-9.000	-999.	55.	31.3	0.1970	0.52	1.00	0.50	122.0	15.0	289.2	2.0	0	0.00	81.	1002.	2	NAD-SFC NoSubs
8	9	23	267	3	-1.5	0.080	-9.000	-9.000	-999.	55.	31.3	0.1970	0.52	1.00	0.50	131.0	15.0	288.8	2.0	0	0.00	82.	1002.	2	NAD-SFC NoSubs
8	9	23	267	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	288.4	2.0	0	0.00	81.	1003.	2	NAD-SFC NoSubs
8	9	23	267	5	-1.5	0.081	-9.000	-9.000	-999.	56.	31.5	0.2160	0.52	1.00	0.50	288.0	15.0	288.1	2.0	0	0.00	80.	1003.	2	NAD-SFC NoSubs
8	9	23	267	6	-8.0	0.137	-9.000	-9.000	-999.	122.	28.5	0.2720	0.52	1.00	1.50	301.0	15.0	287.9	2.0	0	0.00	78.	1004.	2	NAD-SFC NoSubs
8	9	23	267	7	-3.3	0.135	-9.000	-9.000	-999.	118.	66.7	0.2160	0.52	0.45	1.50	297.0	15.0	287.8	2.0	0	0.00	77.	1004.	2	NAD-SFC NoSubs
8	9	23	267	8	42.3	0.200	0.482	0.009	95.	214.	-16.8	0.2720	0.52	0.27	1.50	310.0	15.0	290.4	2.0	0	0.00	67.	1004.	2	NAD-SFC NoSubs
8	9	23	267	9	85.2	0.165	0.856	0.009	263.	161.	-4.7	0.2720	0.52	0.22	1.00	301.0	15.0	292.5	2.0	0	0.00	61.	1004.	2	NAD-SFC NoSubs
8	9	23	267	10	119.0	0.108	1.131	0.010	435.	85.	-1.0	0.2160	0.52	0.20	0.50	282.0	15.0	295.0	2.0	0	0.00	54.	1004.	2	NAD-SFC NoSubs
8	9	23	267	11	141.5	-9.000	-9.000	-9.000	587.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.2	2.0	0	0.00	44.	1004.	2	NAD-SFC NoSubs
8	9	23	267	12	152.1	-9.000	-9.000	-9.000	699.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.0	2.0	0	0.00	38.	1003.	2	NAD-SFC NoSubs
8	9	23	267	13	150.6	-9.000	-9.000	-9.000	777.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.5	2.0	0	0.00	34.	1002.	2	NAD-SFC NoSubs
8	9	23	267	14	136.9	-9.000	-9.000	-9.000	843.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	301.5	2.0	0	0.00	32.	1001.	2	NAD-SFC NoSubs
8	9	23	267	15	111.4	0.114	1.406	0.007	892.	93.	-1.2	0.2930	0.52	0.20	0.50	344.0	15.0	302.1	2.0	0	0.00	32.	1001.	2	NAD-SFC NoSubs
8	9	23	267	16	74.9	0.216	1.247	0.006	924.	240.	-11.9	0.2940	0.52	0.23	1.50	6.0	15.0	302.2	2.0	0	0.00	33.	1000.	2	NAD-SFC NoSubs
8	9	23	267	17	29.9	0.297	0.922	0.006	935.	389.	-78.3	0.2940	0.52	0.31	2.60	18.0	15.0	301.6	2.0	0	0.00	42.	1000.	2	NAD-SFC NoSubs
8	9	23	267	18	-31.0	0.388	-9.000	-9.000	-999.	581.	168.6	0.2470	0.52	0.59	4.10	31.0	15.0	299.9	2.0	0	0.00	50.	1000.	2	NAD-SFC NoSubs
8	9	23	267	19	-36.7	0.355	-9.000	-9.000	-999.	508.	108.6	0.2940	0.52	1.00	3.60	26.0	15.0	298.4	2.0	0	0.00	54.	1001.	2	NAD-SFC NoSubs
8	9	23	267	20	-8.2	0.140	-9.000	-9.000	-999.	178.	29.8	0.2940	0.52	1.00	1.50	26.0	15.0	297.2	2.0	0	0.00	57.	1001.	2	NAD-SFC NoSubs
8	9	23	267	21	-20.3	0.218	-9.000	-9.000	-999.	245.	45.7	0.1750	0.52	1.00	2.60	268.0	15.0	295.9	2.0	0	0.00	61.	1001.	2	NAD-SFC NoSubs
8	9	23	267	22	-39.1	0.373	-9.000	-9.000	-999.	546.	118.1	0.2160	0.52	1.00	4.10	281.0	15.0	294.4	2.0	0	0.00	63.	1002.	2	NAD-SFC NoSubs
8	9	23	267	23	-29.3	0.278	-9.000	-9.000	-999.	357.	65.6	0.2160	0.52	1.00	3.10	286.0	15.0	293.5	2.0	0	0.00	62.	1002.	2	NAD-SFC NoSubs
8	9	23	267	24	-15.9	0.195	-9.000	-9.000	-999.	210.	41.9	0.2720	0.52	1.00	2.10	306.0	15.0	292.9	2.0	0	0.00	61.	1002.	2	NAD-SFC NoSubs

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 8  9 24 268  1   -4.0  0.102 -9.000 -9.000 -999.   82.     23.7  0.2940  0.52  1.00  1.00   7.0  15.0 292.2  2.0   0  0.00  62.  1002.    2 NAD-SFC NoSubs
 8  9 24 268  2   -4.0  0.102 -9.000 -9.000 -999.   78.     23.7  0.2940  0.52  1.00  1.00  20.0  15.0 291.8  2.0   0  0.00  63.  1002.    2 NAD-SFC NoSubs
 8  9 24 268  3   -1.7  0.084 -9.000 -9.000 -999.   59.     32.0  0.2940  0.52  1.00  0.50   7.0  15.0 291.1  2.0   0  0.00  65.  1002.    2 NAD-SFC NoSubs
 8  9 24 268  4   -1.7  0.084 -9.000 -9.000 -999.   59.     32.0  0.2930  0.52  1.00  0.50 344.0  15.0 290.5  2.0   0  0.00  67.  1002.    2 NAD-SFC NoSubs
 8  9 24 268  5   -8.0  0.137 -9.000 -9.000 -999.  122.     28.6  0.2720  0.52  1.00  1.50 312.0  15.0 290.1  2.0   0  0.00  68.  1002.    2 NAD-SFC NoSubs
 8  9 24 268  6   -8.0  0.137 -9.000 -9.000 -999.  122.     28.6  0.2720  0.52  1.00  1.50 307.0  15.0 289.8  2.0   0  0.00  69.  1002.    2 NAD-SFC NoSubs
 8  9 24 268  7   -4.8  0.191 -9.000 -9.000 -999.  201.    130.6  0.2160  0.52  0.45  2.10 296.0  15.0 289.5  2.0   0  0.00  69.  1003.    2 NAD-SFC NoSubs
 8  9 24 268  8   41.9  0.254  0.492  0.008  102.  307.    -34.9  0.2720  0.52  0.27  2.10 319.0  15.0 291.5  2.0   0  0.00  64.  1003.    2 NAD-SFC NoSubs
 8  9 24 268  9   84.8  0.204  0.800  0.009  216.  223.     -9.0  0.2160  0.52  0.22  1.50 299.0  15.0 293.5  2.0   0  0.00  59.  1003.    2 NAD-SFC NoSubs
 8  9 24 268 10  118.5  0.113  1.068  0.008  368.   95.     -1.1  0.2720  0.52  0.20  0.50 304.0  15.0 295.9  2.0   0  0.00  53.  1002.    2 NAD-SFC NoSubs
 8  9 24 268 11  141.2  0.116  1.285  0.007  537.   95.     -1.0  0.2720  0.52  0.19  0.50 304.0  15.0 298.5  2.0   0  0.00  42.  1001.    2 NAD-SFC NoSubs
 8  9 24 268 12  151.8 -9.000 -9.000 -9.000  683. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 300.2  2.0   0  0.00  37.  1001.    2 NAD-SFC NoSubs
 8  9 24 268 13  150.2 -9.000 -9.000 -9.000  810. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 301.6  2.0   0  0.00  35.  1000.    2 NAD-SFC NoSubs
 8  9 24 268 14  136.4  0.118  1.516  0.008  911.   97.     -1.1  0.2930  0.52  0.20  0.50 345.0  15.0 302.6  2.0   0  0.00  33.   999.    2 NAD-SFC NoSubs
 8  9 24 268 15  110.8 -9.000 -9.000 -9.000  984. -999. -99999.0  0.2235  0.52  0.20  0.00   0.0  15.0 303.2  2.0   0  0.00  33.   998.    2 NAD-SFC NoSubs
 8  9 24 268 16   74.1  0.318  1.286  0.007 1022.  431.    -38.7  0.2940  0.52  0.23  2.60  12.0  15.0 303.0  2.0   0  0.00  37.   998.    2 NAD-SFC NoSubs
 8  9 24 268 17   28.9  0.343  0.944  0.007 1036.  482.   -124.0  0.2940  0.52  0.31  3.10  21.0  15.0 302.2  2.0   0  0.00  46.   998.    2 NAD-SFC NoSubs
 8  9 24 268 18  -29.3  0.357 -9.000 -9.000 -999.  511.    137.8  0.2940  0.52  0.60  3.60  28.0  15.0 301.0  2.0   0  0.00  50.   998.    2 NAD-SFC NoSubs
 8  9 24 268 19   -8.1  0.140 -9.000 -9.000 -999.  179.     30.0  0.2940  0.52  1.00  1.50  28.0  15.0 299.8  2.0   0  0.00  52.   999.    2 NAD-SFC NoSubs
 8  9 24 268 20   -6.5  0.122 -9.000 -9.000 -999.  103.     25.0  0.1750  0.52  1.00  1.50 260.0  15.0 298.4  2.0   0  0.00  57.   999.    2 NAD-SFC NoSubs
 8  9 24 268 21  -41.4  0.398 -9.000 -9.000 -999.  602.    135.6  0.1750  0.52  1.00  4.60 267.0  15.0 296.4  2.0   0  0.00  62.  1000.    2 NAD-SFC NoSubs
 8  9 24 268 22  -39.1  0.373 -9.000 -9.000 -999.  546.    118.0  0.2160  0.52  1.00  4.10 281.0  15.0 294.2  2.0   0  0.00  68.  1001.    2 NAD-SFC NoSubs
 8  9 24 268 23  -29.2  0.278 -9.000 -9.000 -999.  357.     65.6  0.2160  0.52  1.00  3.10 278.0  15.0 293.8  2.0   0  0.00  68.  1001.    2 NAD-SFC NoSubs
 8  9 24 268 24   -7.2  0.129 -9.000 -9.000 -999.  129.     26.6  0.2160  0.52  1.00  1.50 298.0  15.0 293.5  2.0   0  0.00  67.  1001.    2 NAD-SFC NoSubs
 8  9 25 269  1   -3.6  0.097 -9.000 -9.000 -999.   72.     22.4  0.2160  0.52  1.00  1.00 297.0  15.0 293.2  2.0   0  0.00  68.  1001.    2 NAD-SFC NoSubs
 8  9 25 269  2   -3.9  0.101 -9.000 -9.000 -999.   77.     23.3  0.2720  0.52  1.00  1.00 302.0  15.0 292.8  2.0   0  0.00  69.  1001.    2 NAD-SFC NoSubs
 8  9 25 269  3   -1.6  0.083 -9.000 -9.000 -999.   58.     31.8  0.2720  0.52  1.00  0.50 315.0  15.0 292.2  2.0   0  0.00  72.  1001.    2 NAD-SFC NoSubs
 8  9 25 269  4   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.2160  0.52  1.00  0.50 291.0  15.0 291.8  2.0   0  0.00  75.  1001.    2 NAD-SFC NoSubs
 8  9 25 269  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00   0.0  15.0 291.1  2.0   0  0.00  78.  1001.    2 NAD-SFC NoSubs
 8  9 25 269  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00   0.0  15.0 290.8  2.0   0  0.00  81.  1001.    2 NAD-SFC NoSubs
 8  9 25 269  7   -0.5  0.051 -9.000 -9.000 -999.   28.     23.7  0.2940  0.52  0.46  0.50  13.0  15.0 290.2  2.0   0  0.00  83.  1001.    2 NAD-SFC NoSubs
 8  9 25 269  8   41.3  0.100  0.563  0.013  154.   76.     -2.2  0.2930  0.52  0.27  0.50 344.0  15.0 291.8  2.0   0  0.00  76.  1001.    2 NAD-SFC NoSubs
 8  9 25 269  9   84.3 -9.000 -9.000 -9.000  258. -999. -99999.0  0.2235  0.52  0.22  0.00   0.0  15.0 293.9  2.0   0  0.00  67.  1001.    2 NAD-SFC NoSubs
 8  9 25 269 10  117.9 -9.000 -9.000 -9.000  359. -999. -99999.0  0.2235  0.52  0.20  0.00   0.0  15.0 296.2  2.0   0  0.00  55.  1001.    2 NAD-SFC NoSubs
 8  9 25 269 11  140.2 -9.000 -9.000 -9.000  493. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 298.0  2.0   0  0.00  50.  1000.    2 NAD-SFC NoSubs
 8  9 25 269 12  150.6  0.117  1.381  0.009  624.   97.     -1.0  0.2720  0.52  0.19  0.50 320.0  15.0 299.6  2.0   0  0.00  47.   999.    2 NAD-SFC NoSubs
 8  9 25 269 13  149.0  0.119  1.458  0.009  741.   99.     -1.0  0.2930  0.52  0.19  0.50 353.0  15.0 301.1  2.0   0  0.00  43.   998.    2 NAD-SFC NoSubs
 8  9 25 269 14  135.2  0.230  1.469  0.009  836.  265.     -8.0  0.2940  0.52  0.20  1.50   1.0  15.0 302.2  2.0   0  0.00  41.   998.    2 NAD-SFC NoSubs
 8  9 25 269 15  109.5  0.283  1.408  0.009  907.  361.    -18.3  0.2940  0.52  0.20  2.10  15.0  15.0 302.9  2.0   0  0.00  40.   997.    2 NAD-SFC NoSubs
 8  9 25 269 16   72.8  0.318  1.248  0.009  950.  430.    -39.2  0.2940  0.52  0.23  2.60  14.0  15.0 302.9  2.0   0  0.00  42.   997.    2 NAD-SFC NoSubs
 8  9 25 269 17   27.7  0.296  0.909  0.009  964.  386.    -83.0  0.2940  0.52  0.32  2.60  10.0  15.0 302.2  2.0   0  0.00  51.   997.    2 NAD-SFC NoSubs
 8  9 25 269 18  -25.9  0.305 -9.000 -9.000 -999.  403.     96.9  0.2930  0.52  0.61  3.10 357.0  15.0 301.2  2.0   0  0.00  54.   997.    2 NAD-SFC NoSubs
 8  9 25 269 19  -16.2  0.200 -9.000 -9.000 -999.  220.     43.8  0.2930  0.52  1.00  2.10 333.0  15.0 300.2  2.0   0  0.00  56.   998.    2 NAD-SFC NoSubs
 8  9 25 269 20  -22.0  0.231 -9.000 -9.000 -999.  266.     49.7  0.2160  0.52  1.00  2.60 277.0  15.0 299.2  2.0   0  0.00  59.   998.    2 NAD-SFC NoSubs
 8  9 25 269 21  -36.6  0.353 -9.000 -9.000 -999.  503.    107.2  0.1750  0.52  1.00  4.10 269.0  15.0 297.6  2.0   0  0.00  63.   999.    2 NAD-SFC NoSubs
 8  9 25 269 22  -33.9  0.325 -9.000 -9.000 -999.  446.     90.5  0.2160  0.52  1.00  3.60 292.0  15.0 295.8  2.0   0  0.00  69.   999.    2 NAD-SFC NoSubs
 8  9 25 269 23  -36.2  0.347 -9.000 -9.000 -999.  490.    102.6  0.2720  0.52  1.00  3.60 304.0  15.0 295.1  2.0   0  0.00  71.  1000.    2 NAD-SFC NoSubs
 8  9 25 269 24  -24.7  0.246 -9.000 -9.000 -999.  298.     53.8  0.2720  0.52  1.00  2.60 318.0  15.0 294.8  2.0   0  0.00  72.  1000.    2 NAD-SFC NoSubs
 8  9 26 270  1  -15.8  0.195 -9.000 -9.000 -999.  208.     42.0  0.2720  0.52  1.00  2.10 325.0  15.0 294.2  2.0   0  0.00  74.  1000.    2 NAD-SFC NoSubs
 8  9 26 270  2   -8.2  0.140 -9.000 -9.000 -999.  126.     29.6  0.2930  0.52  1.00  1.50 342.0  15.0 293.8  2.0   0  0.00  76.  1001.    2 NAD-SFC NoSubs
 8  9 26 270  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00   0.0  15.0 293.2  2.0   0  0.00  78.  1001.    3 NAD-SFC NoSubs
 8  9 26 270  4   -1.5  0.081 -9.000 -9.000 -999.   56.     31.4  0.2470  0.52  1.00  0.50  33.0  15.0 292.8  2.0   0  0.00  79.  1001.    3 NAD-SFC NoSubs
 8  9 26 270  5   -1.5  0.080 -9.000 -9.000 -999.   54.     31.0  0.2090  0.52  1.00  0.50  70.0  15.0 292.2  2.0   0  0.00  81.  1001.    3 NAD-SFC NoSubs
 8  9 26 270  6   -1.5  0.080 -9.000 -9.000 -999.   54.     31.1  0.2090  0.52  1.00  0.50  78.0  15.0 291.8  2.0   0  0.00  83.  1002.    3 NAD-SFC NoSubs
 8  9 26 270  7   -0.4  0.045 -9.000 -9.000 -999.   23.     22.5  0.2090  0.52  0.46  0.50  82.0  15.0 291.5  2.0   0  0.00  85.  1002.    3 NAD-SFC NoSubs
 8  9 26 270  8   41.1  0.096  0.586  0.009  175.   72.     -1.9  0.2470  0.52  0.27  0.50  35.0  15.0 293.2  2.0   0  0.00  74.  1002.    2 NAD-SFC NoSubs
 8  9 26 270  9   83.9 -9.000 -9.000 -9.000  306. -999. -99999.0  0.2235  0.52  0.22  0.00   0.0  15.0 295.1  2.0   0  0.00  64.  1002.    2 NAD-SFC NoSubs
 8  9 26 270 10  117.4 -9.000 -9.000 -9.000  441. -999. -99999.0  0.2235  0.52  0.20  0.00   0.0  15.0 296.9  2.0   0  0.00  57.  1002.    2 NAD-SFC NoSubs
 8  9 26 270 11  139.5 -9.000 -9.000 -9.000  589. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 298.4  2.0   0  0.00  53.  1001.    2 NAD-SFC NoSubs
 8  9 26 270 12  150.0 -9.000 -9.000 -9.000  725. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 300.1  2.0   0  0.00  49.  1000.    2 NAD-SFC NoSubs
 8  9 26 270 13  148.3  0.117  1.520  0.010  845.   96.     -1.0  0.2720  0.52  0.19  0.50 314.0  15.0 301.8  2.0   0  0.00  44.  1000.    2 NAD-SFC NoSubs
 8  9 26 270 14  134.4  0.178  1.525  0.010  942.  181.     -3.8  0.2930  0.52  0.20  1.00 340.0  15.0 302.8  2.0   0  0.00  41.   999.    2 NAD-SFC NoSubs
 8  9 26 270 15  108.6 -9.000 -9.000 -9.000  999. -999. -99999.0  0.2235  0.52  0.20  0.00   0.0  15.0 303.2  2.0   0  0.00  40.   999.    2 NAD-SFC NoSubs
 8  9 26 270 16   71.9 -9.000 -9.000 -9.000 1029. -999. -99999.0  0.2235  0.52  0.23  0.00   0.0  15.0 303.5  2.0   0  0.00  40.   998.    2 NAD-SFC NoSubs
 8  9 26 270 17   26.9  0.295  0.922  0.009 1039.  385.    -85.2  0.2940  0.52  0.32  2.60  12.0  15.0 302.9  2.0   0  0.00  49.   998.    2 NAD-SFC NoSubs
 8  9 26 270 18  -26.7  0.305 -9.000 -9.000 -999.  404.     94.4  0.2940  0.52  0.62  3.10  11.0  15.0 301.9  2.0   0  0.00  52.   999.    2 NAD-SFC NoSubs
 8  9 26 270 19   -8.1  0.140 -9.000 -9.000 -999.  148.     30.0  0.2930  0.52  1.00  1.50 354.0  15.0 300.8  2.0   0  0.00  55.   999.    2 NAD-SFC NoSubs
 8  9 26 270 20  -33.5  0.325 -9.000 -9.000 -999.  446.     91.7  0.2160  0.52  1.00  3.60 273.0  15.0 299.6  2.0   0  0.00  58.   999.    2 NAD-SFC NoSubs
 8  9 26 270 21  -36.7  0.353 -9.000 -9.000 -999.  503.    106.8  0.1750  0.52  1.00  4.10 268.0  15.0 296.6  2.0   0  0.00  68.  1000.    2 NAD-SFC NoSubs
 8  9 26 270 22  -34.0  0.325 -9.000 -9.000 -999.  446.     90.3  0.2160  0.52  1.00  3.60 281.0  15.0 295.1  2.0   0  0.00  71.  1000.    2 NAD-SFC NoSubs
 8  9 26 270 23  -29.2  0.278 -9.000 -9.000 -999.  353.     65.8  0.2160  0.52  1.00  3.10 281.0  15.0 294.5  2.0   0  0.00  71.  1001.    2 NAD-SFC NoSubs
 8  9 26 270 24  -14.2  0.183 -9.000 -9.000 -999.  192.     38.4  0.2160  0.52  1.00  2.10 288.0  15.0 294.2  2.0   0  0.00  70.  1001.    2 NAD-SFC NoSubs
 8  9 27 271  1  -15.9  0.195 -9.000 -9.000 -999.  207.     42.0  0.2720  0.52  1.00  2.10 304.0  15.0 294.0  2.0   0  0.00  70.  1001.    2 NAD-SFC NoSubs
 8  9 27 271  2  -14.3  0.183 -9.000 -9.000 -999.  188.     38.3  0.2160  0.52  1.00  2.10 298.0  15.0 293.8  2.0   0  0.00  71.  1002.    2 NAD-SFC NoSubs
 8  9 27 271  3   -8.0  0.137 -9.000 -9.000 -999.  122.     28.8  0.2720  0.52  1.00  1.50 312.0  15.0 293.2  2.0   0  0.00  73.  1002.    2 NAD-SFC NoSubs
 8  9 27 271  4   -4.0  0.102 -9.000 -9.000 -999.   78.     23.6  0.2930  0.52  1.00  1.00 331.0  15.0 292.9  2.0   0  0.00  75.  1002.    2 NAD-SFC NoSubs
 8  9 27 271  5   -1.7  0.084 -9.000 -9.000 -999.   58.     32.0  0.2930  0.52  1.00  0.50 343.0  15.0 292.4  2.0   0  0.00  77.  1002.    2 NAD-SFC NoSubs
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 8  9 27 271   6   -1.7  0.084 -9.000 -9.000 -999.    58.     32.0  0.2940  0.52  1.00  0.50   7.0  15.0 291.9  2.0   0  0.00  79.  1003.    2 NAD-SFC NoSubs
 8  9 27 271   7   19.3 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.46  0.00   0.0  15.0 291.6  2.0   0  0.00  81.  1003.    2 NAD-SFC NoSubs
 8  9 27 271   8   40.3  0.100  0.617  0.009  209.   76.     -2.2  0.2940  0.52  0.27  0.50  12.0  15.0 292.9  2.0   0  0.00  74.  1003.    2 NAD-SFC NoSubs
 8  9 27 271   9   83.1 -9.000 -9.000 -9.000  317. -999. -99999.0  0.2235  0.52  0.22  0.00   0.0  15.0 294.9  2.0   0  0.00  66.  1003.    2 NAD-SFC NoSubs
 8  9 27 271  10  116.6 -9.000 -9.000 -9.000  443. -999. -99999.0  0.2235  0.52  0.20  0.00   0.0  15.0 297.0  2.0   0  0.00  57.  1003.    2 NAD-SFC NoSubs
 8  9 27 271  11  138.8 -9.000 -9.000 -9.000  591. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 298.6  2.0   0  0.00  54.  1002.    2 NAD-SFC NoSubs
 8  9 27 271  12  149.1 -9.000 -9.000 -9.000  729. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 300.2  2.0   0  0.00  49.  1001.    2 NAD-SFC NoSubs
 8  9 27 271  13  147.4 -9.000 -9.000 -9.000  854. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 301.8  2.0   0  0.00  44.  1000.    2 NAD-SFC NoSubs
 8  9 27 271  14  133.4  0.115  1.527  0.009  953.   94.     -1.0  0.2720  0.52  0.20  0.50 314.0  15.0 302.8  2.0   0  0.00  41.  1000.    2 NAD-SFC NoSubs
 8  9 27 271  15  107.4  0.170  1.448  0.009 1009.  169.     -4.1  0.2720  0.52  0.20  1.00 329.0  15.0 303.2  2.0   0  0.00  39.   999.    2 NAD-SFC NoSubs
 8  9 27 271  16   70.7  0.214  1.272  0.009 1039.  238.    -12.4  0.2930  0.52  0.23  1.50 346.0  15.0 303.4  2.0   0  0.00  39.   999.    2 NAD-SFC NoSubs
 8  9 27 271  17   25.7  0.294  0.911  0.009 1049.  383.    -88.5  0.2940  0.52  0.32  2.60   8.0  15.0 302.9  2.0   0  0.00  48.   999.    2 NAD-SFC NoSubs
 8  9 27 271  18  -32.3  0.356 -9.000 -9.000 -999.  509.    124.2  0.2940  0.52  0.64  3.60  19.0  15.0 301.4  2.0   0  0.00  55.   999.    2 NAD-SFC NoSubs
 8  9 27 271  19  -25.4  0.252 -9.000 -9.000 -999.  309.     56.1  0.2940  0.52  1.00  2.60  16.0  15.0 300.2  2.0   0  0.00  59.   999.    2 NAD-SFC NoSubs
 8  9 27 271  20   -3.3  0.093 -9.000 -9.000 -999.   96.     21.6  0.1750  0.52  1.00  1.00 259.0  15.0 299.2  2.0   0  0.00  63.   999.    2 NAD-SFC NoSubs
 8  9 27 271  21  -38.6  0.373 -9.000 -9.000 -999.  546.    119.6  0.2160  0.52  1.00  4.10 271.0  15.0 298.0  2.0   0  0.00  66.  1000.    2 NAD-SFC NoSubs
 8  9 27 271  22  -33.9  0.325 -9.000 -9.000 -999.  447.     90.6  0.2160  0.52  1.00  3.60 288.0  15.0 296.1  2.0   0  0.00  72.  1000.    2 NAD-SFC NoSubs
 8  9 27 271  23  -31.0  0.297 -9.000 -9.000 -999.  388.     75.0  0.2720  0.52  1.00  3.10 306.0  15.0 295.1  2.0   0  0.00  73.  1000.    2 NAD-SFC NoSubs
 8  9 27 271  24  -31.8  0.303 -9.000 -9.000 -999.  400.     78.2  0.2930  0.52  1.00  3.10 343.0  15.0 294.5  2.0   0  0.00  74.  1001.    2 NAD-SFC NoSubs
 8  9 28 272   1  -25.7  0.252 -9.000 -9.000 -999.  304.     55.4  0.2930  0.52  1.00  2.60 343.0  15.0 293.9  2.0   0  0.00  75.  1001.    2 NAD-SFC NoSubs
 8  9 28 272   2  -15.9  0.195 -9.000 -9.000 -999.  208.     41.9  0.2720  0.52  1.00  2.10 318.0  15.0 293.6  2.0   0  0.00  74.  1001.    2 NAD-SFC NoSubs
 8  9 28 272   3  -14.3  0.183 -9.000 -9.000 -999.  188.     38.3  0.2160  0.52  1.00  2.10 297.0  15.0 293.4  2.0   0  0.00  73.  1002.    2 NAD-SFC NoSubs
 8  9 28 272   4   -7.2  0.129 -9.000 -9.000 -999.  111.     26.6  0.2160  0.52  1.00  1.50 289.0  15.0 293.1  2.0   0  0.00  73.  1002.    2 NAD-SFC NoSubs
 8  9 28 272   5   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.2160  0.52  1.00  0.50 297.0  15.0 292.8  2.0   0  0.00  74.  1002.    2 NAD-SFC NoSubs
 8  9 28 272   6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00   0.0  15.0 292.5  2.0   0  0.00  77.  1003.    2 NAD-SFC NoSubs
 8  9 28 272   7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.47  0.00   0.0  15.0 292.1  2.0   0  0.00  79.  1003.    2 NAD-SFC NoSubs
 8  9 28 272   8   39.8  0.153  0.540  0.009  141.  144.     -8.1  0.2930  0.52  0.28  1.00 336.0  15.0 293.6  2.0   0  0.00  73.  1003.    2 NAD-SFC NoSubs
 8  9 28 272   9   82.5  0.108  0.864  0.008  280.   86.     -1.4  0.2720  0.52  0.22  0.50 310.0  15.0 295.2  2.0   0  0.00  68.  1003.    2 NAD-SFC NoSubs
 8  9 28 272  10  116.1  0.107  1.116  0.008  428.   84.     -1.0  0.2160  0.52  0.20  0.50 274.0  15.0 297.8  2.0   0  0.00  59.  1003.    2 NAD-SFC NoSubs
 8  9 28 272  11  138.4  0.110  1.319  0.008  593.   88.     -1.0  0.2160  0.52  0.19  0.50 276.0  15.0 299.6  2.0   0  0.00  51.  1002.    2 NAD-SFC NoSubs
 8  9 28 272  12  148.7 -9.000 -9.000 -9.000  724. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 301.2  2.0   0  0.00  44.  1001.    2 NAD-SFC NoSubs
 8  9 28 272  13  146.9  0.119  1.505  0.008  829.   98.     -1.0  0.2930  0.52  0.19  0.50 344.0  15.0 302.8  2.0   0  0.00  40.  1000.    2 NAD-SFC NoSubs
 8  9 28 272  14  132.8  0.178  1.504  0.008  914.  180.     -3.8  0.2940  0.52  0.20  1.00   9.0  15.0 303.6  2.0   0  0.00  38.  1000.    2 NAD-SFC NoSubs
 8  9 28 272  15  106.7  0.328  1.430  0.007  977.  451.    -29.4  0.2940  0.52  0.21  2.60  16.0  15.0 303.9  2.0   0  0.00  39.   999.    2 NAD-SFC NoSubs
 8  9 28 272  16   69.5  0.362  1.255  0.007 1013.  523.    -60.9  0.2940  0.52  0.23  3.10  16.0  15.0 303.5  2.0   0  0.00  47.   999.    2 NAD-SFC NoSubs
 8  9 28 272  17   24.4  0.340  0.888  0.007 1025.  476.   -143.8  0.2940  0.52  0.33  3.10   8.0  15.0 302.8  2.0   0  0.00  54.   999.    2 NAD-SFC NoSubs
 8  9 28 272  18  -41.8  0.449 -9.000 -9.000 -999.  721.    192.6  0.2720  0.52  0.65  4.60 312.0  15.0 301.6  2.0   0  0.00  56.   999.    2 NAD-SFC NoSubs
 8  9 28 272  19  -48.4  0.468 -9.000 -9.000 -999.  767.    188.4  0.2160  0.52  1.00  5.10 276.0  15.0 298.1  2.0   0  0.00  66.  1000.    2 NAD-SFC NoSubs
 8  9 28 272  20  -43.8  0.420 -9.000 -9.000 -999.  655.    151.0  0.2160  0.52  1.00  4.60 279.0  15.0 296.2  2.0   0  0.00  67.  1001.    2 NAD-SFC NoSubs
 8  9 28 272  21  -34.0  0.325 -9.000 -9.000 -999.  451.     90.4  0.2160  0.52  1.00  3.60 285.0  15.0 295.6  2.0   0  0.00  69.  1001.    2 NAD-SFC NoSubs
 8  9 28 272  22  -14.2  0.183 -9.000 -9.000 -999.  202.     38.4  0.2160  0.52  1.00  2.10 282.0  15.0 295.2  2.0   0  0.00  69.  1002.    2 NAD-SFC NoSubs
 8  9 28 272  23   -1.5  0.080 -9.000 -9.000 -999.   63.     31.0  0.2160  0.52  1.00  0.50 291.0  15.0 295.2  2.0   0  0.00  69.  1003.    3 NAD-SFC NoSubs
 8  9 28 272  24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00   0.0  15.0 294.8  2.0   0  0.00  70.  1003.    3 NAD-SFC NoSubs
 8  9 29 273   1   -1.4  0.079 -9.000 -9.000 -999.   54.     31.0  0.2090  0.52  1.00  0.50  72.0  15.0 294.4  2.0   0  0.00  71.  1003.    3 NAD-SFC NoSubs
 8  9 29 273   2   -1.5  0.081 -9.000 -9.000 -999.   55.     31.3  0.2470  0.52  1.00  0.50  45.0  15.0 294.2  2.0   0  0.00  72.  1004.    3 NAD-SFC NoSubs
 8  9 29 273   3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00   0.0  15.0 294.0  2.0   0  0.00  73.  1004.    3 NAD-SFC NoSubs
 8  9 29 273   4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00   0.0  15.0 293.8  2.0   0  0.00  74.  1005.    3 NAD-SFC NoSubs
 8  9 29 273   5   -1.5  0.080 -9.000 -9.000 -999.   54.     31.0  0.2090  0.52  1.00  0.50  89.0  15.0 293.5  2.0   0  0.00  76.  1005.    3 NAD-SFC NoSubs
 8  9 29 273   6   -3.5  0.096 -9.000 -9.000 -999.   71.     22.3  0.2130  0.52  1.00  1.00 113.0  15.0 293.2  2.0   0  0.00  79.  1005.    3 NAD-SFC NoSubs
 8  9 29 273   7   -3.7  0.134 -9.000 -9.000 -999.  117.     57.1  0.2130  0.52  0.47  1.50 116.0  15.0 292.9  2.0   0  0.00  81.  1006.    3 NAD-SFC NoSubs
 8  9 29 273   8   40.0  0.188  0.666  0.009  265.  196.    -15.0  0.2130  0.52  0.28  1.50 116.0  15.0 293.0  2.0   0  0.00  83.  1006.    3 NAD-SFC NoSubs
 8  9 29 273   9   81.9  0.200  0.974  0.009  404.  214.     -8.7  0.1970  0.52  0.22  1.50 135.0  15.0 293.8  2.0   0  0.00  77.  1005.    3 NAD-SFC NoSubs
 8  9 29 273  10  114.6  0.207  1.176  0.008  509.  226.     -7.0  0.1970  0.52  0.20  1.50 136.0  15.0 294.8  2.0   0  0.00  73.  1005.    3 NAD-SFC NoSubs
 8  9 29 273  11  135.9  0.260  1.324  0.007  612.  319.    -11.6  0.1810  0.52  0.20  2.10 151.0  15.0 295.8  2.0   0  0.00  69.  1004.    2 NAD-SFC NoSubs
 8  9 29 273  12  145.8  0.267  1.435  0.006  727.  331.    -11.6  0.1970  0.52  0.19  2.10 146.0  15.0 296.8  2.0   0  0.00  64.  1004.    2 NAD-SFC NoSubs
 8  9 29 273  13  143.4  0.209  1.499  0.006  841.  230.     -5.7  0.1810  0.52  0.19  1.50 153.0  15.0 297.2  2.0   0  0.00  62.  1003.    2 NAD-SFC NoSubs
 8  9 29 273  14  129.0  0.210  1.498  0.006  933.  231.     -6.4  0.1970  0.52  0.20  1.50 146.0  15.0 297.8  2.0   0  0.00  61.  1002.    2 NAD-SFC NoSubs
 8  9 29 273  15  102.8  0.155  1.425  0.006 1008.  147.     -3.2  0.1810  0.52  0.21  1.00 162.0  15.0 298.1  2.0   0  0.00  62.  1002.    2 NAD-SFC NoSubs
 8  9 29 273  16   65.8  0.098  1.248  0.006 1058.   74.     -1.3  0.1970  0.52  0.24  0.50 120.0  15.0 298.0  2.0   0  0.00  64.  1002.    2 NAD-SFC NoSubs
 8  9 29 273  17   20.9  0.137  0.856  0.006 1073.  122.    -11.0  0.2470  0.52  0.33  1.00  38.0  15.0 297.6  2.0   0  0.00  65.  1002.    2 NAD-SFC NoSubs
 8  9 29 273  18  -27.2  0.278 -9.000 -9.000 -999.  351.     70.3  0.2130  0.52  0.67  3.10  94.0  15.0 297.2  2.0   0  0.00  69.  1002.    2 NAD-SFC NoSubs
 8  9 29 273  19  -33.1  0.318 -9.000 -9.000 -999.  429.     86.5  0.1970  0.52  1.00  3.60 138.0  15.0 296.6  2.0   0  0.00  72.  1002.    2 NAD-SFC NoSubs
 8  9 29 273  20  -28.0  0.269 -9.000 -9.000 -999.  336.     62.0  0.1900  0.52  1.00  3.10 197.0  15.0 296.4  2.0   0  0.00  72.  1002.    2 NAD-SFC NoSubs
 8  9 29 273  21  -29.0  0.278 -9.000 -9.000 -999.  352.     66.2  0.2160  0.52  1.00  3.10 283.0  15.0 296.0  2.0   0  0.00  72.  1002.    2 NAD-SFC NoSubs
 8  9 29 273  22  -31.0  0.297 -9.000 -9.000 -999.  387.     75.1  0.2720  0.52  1.00  3.10 320.0  15.0 295.5  2.0   0  0.00  74.  1002.    2 NAD-SFC NoSubs
 8  9 29 273  23  -36.4  0.347 -9.000 -9.000 -999.  490.    102.4  0.2720  0.52  1.00  3.60 319.0  15.0 294.8  2.0   0  0.00  78.  1002.    2 NAD-SFC NoSubs
 8  9 29 273  24  -36.5  0.347 -9.000 -9.000 -999.  490.    102.1  0.2720  0.52  1.00  3.60 303.0  15.0 293.8  2.0   0  0.00  80.  1003.    2 NAD-SFC NoSubs
 8  9 30 274   1  -31.3  0.296 -9.000 -9.000 -999.  389.     74.5  0.2720  0.52  1.00  3.10 301.0  15.0 293.2  2.0   0  0.00  79.  1003.    2 NAD-SFC NoSubs
 8  9 30 274   2  -24.8  0.246 -9.000 -9.000 -999.  294.     53.7  0.2720  0.52  1.00  2.60 305.0  15.0 293.1  2.0   0  0.00  77.  1003.    2 NAD-SFC NoSubs
 8  9 30 274   3  -31.4  0.296 -9.000 -9.000 -999.  387.     74.4  0.2720  0.52  1.00  3.10 306.0  15.0 292.8  2.0   0  0.00  77.  1004.    2 NAD-SFC NoSubs
 8  9 30 274   4  -31.4  0.296 -9.000 -9.000 -999.  387.     74.2  0.2720  0.52  1.00  3.10 308.0  15.0 292.1  2.0   0  0.00  82.  1004.    2 NAD-SFC NoSubs
 8  9 30 274   5  -31.6  0.296 -9.000 -9.000 -999.  387.     74.0  0.2720  0.52  1.00  3.10 306.0  15.0 291.2  2.0   0  0.00  88.  1005.    2 NAD-SFC NoSubs
 8  9 30 274   6  -25.0  0.246 -9.000 -9.000 -999.  294.     53.4  0.2720  0.52  1.00  2.60 306.0  15.0 290.6  2.0   0  0.00  92.  1005.    2 NAD-SFC NoSubs
 8  9 30 274   7   -8.6  0.201 -9.000 -9.000 -999.  218.     85.5  0.2720  0.52  0.48  2.10 320.0  15.0 290.4  2.0   0  0.00  93.  1006.    2 NAD-SFC NoSubs
 8  9 30 274   8   37.6  0.200  0.527  0.012  139.  215.    -19.2  0.2930  0.52  0.28  1.50 342.0  15.0 291.2  2.0   0  0.00  86.  1006.    2 NAD-SFC NoSubs
 8  9 30 274   9   80.3 -9.000 -9.000 -9.000  232. -999. -99999.0  0.2235  0.52  0.22  0.00   0.0  15.0 293.2  2.0   0  0.00  77.  1006.    2 NAD-SFC NoSubs
 8  9 30 274  10  113.8 -9.000 -9.000 -9.000  344. -999. -99999.0  0.2235  0.52  0.20  0.00   0.0  15.0 296.0  2.0   0  0.00  66.  1005.    2 NAD-SFC NoSubs
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 8  9 30 274 11   135.9  0.115  1.206  0.009  463.   94.     -1.0  0.2720  0.52  0.20  0.50  305.0  15.0  297.9  2.0  0  0.00  59.  1004.   2 NAD-SFC NoSubs
 8  9 30 274 12   146.0  0.180  1.331  0.008  579.  183.     -3.6  0.2930  0.52  0.19  1.00  330.0  15.0  299.5  2.0  0  0.00  54.  1003.   2 NAD-SFC NoSubs
 8  9 30 274 13   144.1  0.180  1.398  0.007  679.  183.     -3.6  0.2930  0.52  0.19  1.00  348.0  15.0  301.0  2.0  0  0.00  50.  1002.   2 NAD-SFC NoSubs
 8  9 30 274 14   129.8  0.287  1.411  0.007  774.  369.    -16.2  0.2930  0.52  0.20  2.10  358.0  15.0  302.0  2.0  0  0.00  47.  1002.   2 NAD-SFC NoSubs
 8  9 30 274 15   103.5 -9.000 -9.000 -9.000  842. -999. -99999.0  0.2235  0.52  0.21  0.00    0.0  15.0  302.2  2.0  0  0.00  47.  1001.   2 NAD-SFC NoSubs
 8  9 30 274 16    66.4 -9.000 -9.000 -9.000  883. -999. -99999.0  0.2235  0.52  0.24  0.00    0.0  15.0  302.2  2.0  0  0.00  52.  1001.   2 NAD-SFC NoSubs
 8  9 30 274 17    21.6  0.291  0.815  0.006  895.  377.   -102.1  0.2940  0.52  0.34  2.60    7.0  15.0  301.9  2.0  0  0.00  58.  1001.   2 NAD-SFC NoSubs
 8  9 30 274 18   -15.9  0.201 -9.000 -9.000 -999.  219.     45.3  0.2940  0.52  0.68  2.10    5.0  15.0  301.1  2.0  0  0.00  59.  1001.   2 NAD-SFC NoSubs
 8  9 30 274 19    -1.4  0.078 -9.000 -9.000 -999.   65.     30.6  0.1750  0.52  1.00  0.50  266.0  15.0  300.1  2.0  0  0.00  62.  1001.   2 NAD-SFC NoSubs
 8  9 30 274 20    -3.3  0.093 -9.000 -9.000 -999.   68.     21.6  0.1750  0.52  1.00  1.00  252.0  15.0  298.9  2.0  0  0.00  67.  1002.   2 NAD-SFC NoSubs
 8  9 30 274 21    -7.1  0.129 -9.000 -9.000 -999.  111.     26.8  0.2160  0.52  1.00  1.50  283.0  15.0  298.2  2.0  0  0.00  69.  1002.   2 NAD-SFC NoSubs
 8  9 30 274 22   -14.2  0.183 -9.000 -9.000 -999.  188.     38.6  0.2160  0.52  1.00  2.10  298.0  15.0  297.2  2.0  0  0.00  70.  1002.   2 NAD-SFC NoSubs
 8  9 30 274 23   -15.8  0.195 -9.000 -9.000 -999.  207.     42.2  0.2720  0.52  1.00  2.10  303.0  15.0  296.5  2.0  0  0.00  70.  1003.   2 NAD-SFC NoSubs
 8  9 30 274 24   -24.7  0.246 -9.000 -9.000 -999.  293.     54.0  0.2720  0.52  1.00  2.60  315.0  15.0  295.8  2.0  0  0.00  71.  1003.   2 NAD-SFC NoSubs
 8 10  1 275  1   -31.1  0.297 -9.000 -9.000 -999.  387.     75.0  0.2720  0.72  1.00  3.10  317.0  15.0  295.0  2.0  0  0.00  74.  1003.   2 NAD-SFC NoSubs
 8 10  1 275  2   -31.2  0.296 -9.000 -9.000 -999.  387.     74.8  0.2720  0.72  1.00  3.10  327.0  15.0  294.2  2.0  0  0.00  77.  1003.   2 NAD-SFC NoSubs
 8 10  1 275  3   -24.8  0.246 -9.000 -9.000 -999.  294.     53.7  0.2720  0.72  1.00  2.60  326.0  15.0  293.5  2.0  0  0.00  79.  1003.   2 NAD-SFC NoSubs
 8 10  1 275  4   -15.9  0.195 -9.000 -9.000 -999.  208.     41.9  0.2720  0.72  1.00  2.10  325.0  15.0  292.9  2.0  0  0.00  80.  1003.   2 NAD-SFC NoSubs
 8 10  1 275  5    -8.0  0.137 -9.000 -9.000 -999.  122.     28.8  0.2720  0.72  1.00  1.50  312.0  15.0  292.5  2.0  0  0.00  80.  1004.   2 NAD-SFC NoSubs
 8 10  1 275  6    -3.6  0.097 -9.000 -9.000 -999.   72.     22.4  0.2160  0.72  1.00  1.00  288.0  15.0  292.1  2.0  0  0.00  80.  1004.   2 NAD-SFC NoSubs
 8 10  1 275  7    -0.7  0.057 -9.000 -9.000 -999.   33.     24.3  0.2160  0.72  0.48  0.50  287.0  15.0  291.8  2.0  0  0.00  80.  1004.   2 NAD-SFC NoSubs
 8 10  1 275  8    45.7  0.204  0.599  0.012  169.  221.    -16.7  0.2930  0.72  0.28  1.50  339.0  15.0  292.8  2.0  0  0.00  72.  1004.   2 NAD-SFC NoSubs
 8 10  1 275  9    97.7 -9.000 -9.000 -9.000  277. -999. -99999.0  0.2235  0.72  0.22  0.00    0.0  15.0  294.4  2.0  0  0.00  66.  1004.   2 NAD-SFC NoSubs
 8 10  1 275 10   138.6 -9.000 -9.000 -9.000  381. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  296.8  2.0  0  0.00  57.  1003.   2 NAD-SFC NoSubs
 8 10  1 275 11   165.6  0.113  1.361  0.008  545.   91.     -1.0  0.2160  0.72  0.20  0.50  295.0  15.0  298.6  2.0  0  0.00  52.  1003.   2 NAD-SFC NoSubs
 8 10  1 275 12   177.8  0.122  1.508  0.008  690.  102.     -1.0  0.2930  0.72  0.19  0.50  333.0  15.0  300.0  2.0  0  0.00  49.  1002.   2 NAD-SFC NoSubs
 8 10  1 275 13   175.1  0.184  1.595  0.008  829.  190.     -3.2  0.2940  0.72  0.19  1.00    3.0  15.0  301.0  2.0  0  0.00  46.  1001.   2 NAD-SFC NoSubs
 8 10  1 275 14   157.3 -9.000 -9.000 -9.000  936. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  301.6  2.0  0  0.00  45.  1000.   2 NAD-SFC NoSubs
 8 10  1 275 15   124.8  0.333  1.522  0.007 1009.  460.    -26.3  0.2940  0.72  0.21  2.60   15.0  15.0  301.5  2.0  0  0.00  51.  1000.   2 NAD-SFC NoSubs
 8 10  1 275 16    78.9  0.320  1.324  0.007 1049.  434.    -36.8  0.2940  0.72  0.24  2.60   22.0  15.0  300.8  2.0  0  0.00  55.  1000.   2 NAD-SFC NoSubs
 8 10  1 275 17    23.9  0.340  0.892  0.007 1060.  475.   -146.2  0.2940  0.72  0.34  3.10   26.0  15.0  300.0  2.0  0  0.00  58.  1000.   2 NAD-SFC NoSubs
 8 10  1 275 18    -3.6  0.098 -9.000 -9.000 -999.  165.     22.9  0.2470  0.72  0.69  1.00   32.0  15.0  299.2  2.0  0  0.00  59.  1000.   2 NAD-SFC NoSubs
 8 10  1 275 19    -3.4  0.095 -9.000 -9.000 -999.   71.     22.0  0.1950  0.72  1.00  1.00  235.0  15.0  298.2  2.0  0  0.00  63.  1000.   2 NAD-SFC NoSubs
 8 10  1 275 20    -6.5  0.122 -9.000 -9.000 -999.  103.     25.0  0.1750  0.72  1.00  1.50  254.0  15.0  297.2  2.0  0  0.00  67.  1001.   2 NAD-SFC NoSubs
 8 10  1 275 21    -7.1  0.129 -9.000 -9.000 -999.  111.     26.7  0.2160  0.72  1.00  1.50  296.0  15.0  296.8  2.0  0  0.00  68.  1001.   2 NAD-SFC NoSubs
 8 10  1 275 22    -8.2  0.140 -9.000 -9.000 -999.  125.     29.7  0.2930  0.72  1.00  1.50  334.0  15.0  296.0  2.0  0  0.00  69.  1001.   2 NAD-SFC NoSubs
 8 10  1 275 23   -16.4  0.200 -9.000 -9.000 -999.  214.     43.4  0.2930  0.72  1.00  2.10  332.0  15.0  295.2  2.0  0  0.00  71.  1002.   2 NAD-SFC NoSubs
 8 10  1 275 24   -16.4  0.200 -9.000 -9.000 -999.  214.     43.4  0.2930  0.72  1.00  2.10  338.0  15.0  294.9  2.0  0  0.00  72.  1002.   2 NAD-SFC NoSubs
 8 10  2 276  1   -16.5  0.200 -9.000 -9.000 -999.  214.     43.3  0.2930  0.72  1.00  2.10  356.0  15.0  294.4  2.0  0  0.00  74.  1002.   2 NAD-SFC NoSubs
 8 10  2 276  2    -8.2  0.140 -9.000 -9.000 -999.  126.     29.7  0.2940  0.72  1.00  1.50   29.0  15.0  293.8  2.0  0  0.00  76.  1002.   2 NAD-SFC NoSubs
 8 10  2 276  3    -3.7  0.098 -9.000 -9.000 -999.   74.     22.9  0.2470  0.72  1.00  1.00   42.0  15.0  293.2  2.0  0  0.00  79.  1002.   3 NAD-SFC NoSubs
 8 10  2 276  4    -3.7  0.098 -9.000 -9.000 -999.   74.     22.9  0.2470  0.72  1.00  1.00   52.0  15.0  292.8  2.0  0  0.00  81.  1002.   3 NAD-SFC NoSubs
 8 10  2 276  5    -3.7  0.098 -9.000 -9.000 -999.   74.     22.9  0.2470  0.72  1.00  1.00   39.0  15.0  292.4  2.0  0  0.00  83.  1003.   3 NAD-SFC NoSubs
 8 10  2 276  6    -3.7  0.098 -9.000 -9.000 -999.   74.     22.9  0.2470  0.72  1.00  1.00   36.0  15.0  291.8  2.0  0  0.00  85.  1003.   3 NAD-SFC NoSubs
 8 10  2 276  7    -0.7  0.058 -9.000 -9.000 -999.   33.     24.6  0.2940  0.72  0.49  0.50   19.0  15.0  291.4  2.0  0  0.00  88.  1003.   3 NAD-SFC NoSubs
 8 10  2 276  8    46.0  0.204  0.659  0.008  223.  222.    -16.6  0.2940  0.72  0.28  1.50    8.0  15.0  292.2  2.0  0  0.00  81.  1004.   3 NAD-SFC NoSubs
 8 10  2 276  9    97.5  0.171  0.999  0.007  366.  169.     -4.6  0.2930  0.72  0.22  1.00  340.0  15.0  294.0  2.0  0  0.00  72.  1004.   3 NAD-SFC NoSubs
 8 10  2 276 10   137.5  0.116  1.288  0.007  556.   95.     -1.0  0.2720  0.72  0.20  0.50  315.0  15.0  295.4  2.0  0  0.00  66.  1003.   3 NAD-SFC NoSubs
 8 10  2 276 11   163.6  0.119  1.489  0.008  723.   98.     -1.0  0.2720  0.72  0.20  0.50  312.0  15.0  296.8  2.0  0  0.00  60.  1003.   2 NAD-SFC NoSubs
 8 10  2 276 12   175.6  0.181  1.618  0.008  863.  185.     -3.0  0.2720  0.72  0.19  1.00  322.0  15.0  298.0  2.0  0  0.00  55.  1002.   2 NAD-SFC NoSubs
 8 10  2 276 13   172.7  0.237  1.679  0.007  981.  277.     -6.9  0.2930  0.72  0.19  1.50  335.0  15.0  299.0  2.0  0  0.00  51.  1001.   2 NAD-SFC NoSubs
 8 10  2 276 14   154.8  0.292  1.663  0.007 1061.  379.    -14.4  0.2930  0.72  0.20  2.10  336.0  15.0  299.5  2.0  0  0.00  49.  1000.   2 NAD-SFC NoSubs
 8 10  2 276 15   122.4  0.332  1.567  0.007 1121.  458.    -26.6  0.2930  0.72  0.21  2.60  354.0  15.0  299.8  2.0  0  0.00  48.   999.   2 NAD-SFC NoSubs
 8 10  2 276 16    78.0 -9.000 -9.000 -9.000 1157. -999. -99999.0  0.2235  0.72  0.24  0.00    0.0  15.0  299.8  2.0  0  0.00  50.   999.   3 NAD-SFC NoSubs
 8 10  2 276 17    23.6  0.340  0.919  0.006 1167.  475.   -147.5  0.2940  0.72  0.35  3.10   13.0  15.0  299.1  2.0  0  0.00  60.   998.   3 NAD-SFC NoSubs
 8 10  2 276 18   -40.2  0.407 -9.000 -9.000 -999.  622.    149.2  0.2940  0.72  0.71  4.10    7.0  15.0  297.5  2.0  0  0.00  66.   999.   3 NAD-SFC NoSubs
 8 10  2 276 19   -36.0  0.355 -9.000 -9.000 -999.  509.    110.5  0.2930  0.72  1.00  3.60  355.0  15.0  296.1  2.0  0  0.00  69.   999.   3 NAD-SFC NoSubs
 8 10  2 276 20   -36.1  0.355 -9.000 -9.000 -999.  507.    110.0  0.2930  0.72  1.00  3.60  332.0  15.0  295.0  2.0  0  0.00  73.  1000.   3 NAD-SFC NoSubs
 8 10  2 276 21   -35.5  0.347 -9.000 -9.000 -999.  491.    104.9  0.2720  0.72  1.00  3.60  319.0  15.0  293.9  2.0  0  0.00  77.  1000.   3 NAD-SFC NoSubs
 8 10  2 276 22   -34.3  0.347 -9.000 -9.000 -999.  491.    108.8  0.2720  0.72  1.00  3.60  322.0  15.0  293.1  2.0  0  0.00  80.  1000.   4 NAD-SFC NoSubs
 8 10  2 276 23   -29.4  0.297 -9.000 -9.000 -999.  390.     79.3  0.2720  0.72  1.00  3.10  324.0  15.0  292.2  2.0  0  0.00  84.  1000.   4 NAD-SFC NoSubs
 8 10  2 276 24   -29.5  0.297 -9.000 -9.000 -999.  388.     79.1  0.2720  0.72  1.00  3.10  327.0  15.0  291.4  2.0  0  0.00  87.  1000.   4 NAD-SFC NoSubs
 8 10  3 277  1   -28.2  0.297 -9.000 -9.000 -999.  389.     83.1  0.2720  0.72  1.00  3.10  328.0  15.0  290.6  2.0  0  0.00  90.  1001.   5 NAD-SFC NoSubs
 8 10  3 277  2   -27.1  0.304 -9.000 -9.000 -999.  403.     92.7  0.2930  0.72  1.00  3.10  333.0  15.0  289.8  2.0  0  0.00  93.  1001.   6 NAD-SFC NoSubs
 8 10  3 277  3   -13.6  0.250 -9.000 -9.000 -999.  302.    102.8  0.2720  0.72  1.00  2.60  320.0  15.0  289.2  2.0  0  0.00  94.  1001.  10 NAD-SFC NoSubs
 8 10  3 277  4   -12.8  0.235 -9.000 -9.000 -999.  273.     90.4  0.2160  0.72  1.00  2.60  296.0  15.0  289.1  2.0  0  0.00  92.  1000.  10 NAD-SFC NoSubs
 8 10  3 277  5   -17.3  0.233 -9.000 -9.000 -999.  270.     65.4  0.2160  0.72  1.00  2.60  288.0  15.0  288.8  2.0  0  0.00  91.  1000.   8 NAD-SFC NoSubs
 8 10  3 277  6   -20.6  0.232 -9.000 -9.000 -999.  268.     53.9  0.2160  0.72  1.00  2.60  287.0  15.0  288.5  2.0  0  0.00  89.  1001.   6 NAD-SFC NoSubs
 8 10  3 277  7    -5.5  0.191 -9.000 -9.000 -999.  200.    112.5  0.2160  0.72  0.49  2.10  294.0  15.0  288.2  2.0  0  0.00  89.  1001.   6 NAD-SFC NoSubs
 8 10  3 277  8    44.4  0.243  0.719  0.008  298.  287.    -28.8  0.2160  0.72  0.28  2.10  289.0  15.0  288.5  2.0  0  0.00  85.  1001.   4 NAD-SFC NoSubs
 8 10  3 277  9    94.7  0.159  1.061  0.008  450.  155.     -3.8  0.2160  0.72  0.22  1.00  284.0  15.0  289.1  2.0  0  0.00  82.  1001.   3 NAD-SFC NoSubs
 8 10  3 277 10   134.3  0.107  1.297  0.007  579.   85.     -1.0  0.1950  0.72  0.20  0.50  218.0  15.0  289.9  2.0  0  0.00  80.  1000.   3 NAD-SFC NoSubs
 8 10  3 277 11   160.4 -9.000 -9.000 -9.000  708. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  291.0  2.0  0  0.00  77.  1000.   3 NAD-SFC NoSubs
 8 10  3 277 12   171.9 -9.000 -9.000 -9.000  832. -999. -99999.0  0.2235  0.72  0.19  0.00    0.0  15.0  292.2  2.0  0  0.00  72.   999.   2 NAD-SFC NoSubs
 8 10  3 277 13   168.8 -9.000 -9.000 -9.000  937. -999. -99999.0  0.2235  0.72  0.19  0.00    0.0  15.0  293.2  2.0  0  0.00  67.   999.   2 NAD-SFC NoSubs
 8 10  3 277 14   150.9  0.115  1.648  0.006 1057.   94.     -1.0  0.2470  0.72  0.20  0.50   59.0  15.0  294.0  2.0  0  0.00  62.   998.   2 NAD-SFC NoSubs
 8 10  3 277 15   118.4  0.169  1.566  0.007 1155.  167.     -3.6  0.2470  0.72  0.21  1.00   45.0  15.0  294.2  2.0  0  0.00  60.   998.   2 NAD-SFC NoSubs
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 8 10  3 277 16   74.0  0.207  1.361  0.007 1213.  227.    -10.7  0.2470  0.72  0.24  1.50   52.0  15.0 294.4  2.0    0  0.00   63.   998.     3 NAD-SFC NoSubs
 8 10  3 277 17   19.9  0.182  0.882  0.007 1227.  186.    -26.8  0.2470  0.72  0.35  1.50   52.0  15.0 294.1  2.0    0  0.00   65.   998.     3 NAD-SFC NoSubs
 8 10  3 277 18   -1.6  0.082 -9.000 -9.000 -999.   62.     31.5  0.2930  0.72  0.72  0.50  352.0  15.0 293.8  2.0    0  0.00   66.   998.     3 NAD-SFC NoSubs
 8 10  3 277 19   -3.3  0.093 -9.000 -9.000 -999.   68.     21.6  0.1750  0.72  1.00  1.00  268.0  15.0 293.2  2.0    0  0.00   67.   999.     3 NAD-SFC NoSubs
 8 10  3 277 20  -22.0  0.231 -9.000 -9.000 -999.  266.     49.8  0.2160  0.72  1.00  2.60  271.0  15.0 292.5  2.0    0  0.00   69.   999.     3 NAD-SFC NoSubs
 8 10  3 277 21  -27.2  0.263 -9.000 -9.000 -999.  324.     59.9  0.1750  0.72  1.00  3.10  269.0  15.0 291.1  2.0    0  0.00   75.   999.     3 NAD-SFC NoSubs
 8 10  3 277 22  -20.2  0.218 -9.000 -9.000 -999.  245.     45.9  0.1750  0.72  1.00  2.60  262.0  15.0 290.2  2.0    0  0.00   78.  1000.     3 NAD-SFC NoSubs
 8 10  3 277 23  -20.2  0.218 -9.000 -9.000 -999.  245.     45.9  0.1750  0.72  1.00  2.60  267.0  15.0 289.9  2.0    0  0.00   78.  1000.     3 NAD-SFC NoSubs
 8 10  3 277 24  -13.0  0.173 -9.000 -9.000 -999.  173.     35.7  0.1750  0.72  1.00  2.10  267.0  15.0 289.8  2.0    0  0.00   79.  1000.     3 NAD-SFC NoSubs
 8 10  4 278  1   -6.4  0.122 -9.000 -9.000 -999.  103.     25.4  0.1750  0.72  1.00  1.50  258.0  15.0 289.6  2.0    0  0.00   79.  1000.     4 NAD-SFC NoSubs
 8 10  4 278  2   -1.2  0.074 -9.000 -9.000 -999.   48.     29.2  0.1750  0.72  1.00  0.50  255.0  15.0 289.5  2.0    0  0.00   80.  1000.     6 NAD-SFC NoSubs
 8 10  4 278  3   -0.8  0.061 -9.000 -9.000 -999.   36.     25.3  0.1900  0.72  1.00  0.50  204.0  15.0 289.2  2.0    0  0.00   82.  1000.    10 NAD-SFC NoSubs
 8 10  4 278  4   -4.8  0.125 -9.000 -9.000 -999.  106.     35.6  0.1810  0.72  1.00  1.50  158.0  15.0 289.2  2.0    0  0.00   83.  1000.    10 NAD-SFC NoSubs
 8 10  4 278  5  -12.5  0.229 -9.000 -9.000 -999.  264.     86.2  0.1970  0.72  1.00  2.60  141.0  15.0 289.1  2.0    0  0.25   87.  1000.    10 NAD-SFC NoSubs
 8 10  4 278  6  -15.0  0.275 -9.000 -9.000 -999.  347.    124.4  0.1970  0.72  1.00  3.10  130.0  15.0 289.2  2.0    0  0.25   89.  1000.    10 NAD-SFC NoSubs
 8 10  4 278  7  -10.5  0.278 -9.000 -9.000 -999.  351.    182.1  0.1970  0.72  0.50  3.10  122.0  15.0 289.0  2.0    0  0.00   90.  1000.    10 NAD-SFC NoSubs
 8 10  4 278  8   37.2  0.235  0.658  0.005  273.  274.    -31.1  0.1970  0.72  0.29  2.10  124.0  15.0 289.4  2.0    0  0.00   89.  1001.     7 NAD-SFC NoSubs
 8 10  4 278  9   77.5  0.202  0.989  0.005  446.  219.     -9.6  0.2160  0.72  0.22  1.50  274.0  15.0 290.6  2.0    0  0.00   79.  1001.     7 NAD-SFC NoSubs
 8 10  4 278 10  108.8  0.264  1.320  0.005  754.  326.    -15.1  0.2160  0.72  0.20  2.10  283.0  15.0 291.9  2.0    0  0.00   72.  1000.     7 NAD-SFC NoSubs
 8 10  4 278 11  129.5  0.214  1.525  0.005  978.  239.     -6.8  0.2160  0.72  0.20  1.50  288.0  15.0 293.1  2.0    0  0.00   66.  1000.     7 NAD-SFC NoSubs
 8 10  4 278 12   41.9  0.152  1.061  0.005 1017.  143.     -7.4  0.2720  0.72  0.19  1.00  311.0  15.0 294.2  2.0    0  0.00   59.   999.    10 NAD-SFC NoSubs
 8 10  4 278 13  113.5  0.174  1.523  0.005 1110.  175.     -4.2  0.2930  0.72  0.19  1.00  332.0  15.0 294.5  2.0    0  0.00   58.   999.     8 NAD-SFC NoSubs
 8 10  4 278 14  122.0  0.114  1.603  0.005 1204.   93.     -1.1  0.2720  0.72  0.20  0.50  320.0  15.0 295.1  2.0    0  0.00   55.   999.     7 NAD-SFC NoSubs
 8 10  4 278 15   96.6  0.171  1.511  0.006 1273.  169.     -4.6  0.2930  0.72  0.21  1.00  341.0  15.0 295.2  2.0    0  0.00   54.   998.     7 NAD-SFC NoSubs
 8 10  4 278 16   67.6  0.269  1.358  0.006 1319.  335.    -25.7  0.2940  0.72  0.24  2.10   11.0  15.0 295.2  2.0    0  0.00   57.   998.     6 NAD-SFC NoSubs
 8 10  4 278 17   20.4  0.279  0.914  0.006 1331.  354.    -95.0  0.2470  0.72  0.36  2.60   44.0  15.0 294.6  2.0    0  0.00   64.   998.     5 NAD-SFC NoSubs
 8 10  4 278 18   -6.9  0.133 -9.000 -9.000 -999.  133.     30.6  0.2470  0.72  0.74  1.50   53.0  15.0 293.8  2.0    0  0.00   69.   999.     6 NAD-SFC NoSubs
 8 10  4 278 19  -13.5  0.251 -9.000 -9.000 -999.  301.    104.2  0.2720  0.72  1.00  2.60  328.0  15.0 292.9  2.0    0  0.00   74.  1000.    10 NAD-SFC NoSubs
 8 10  4 278 20  -26.2  0.357 -9.000 -9.000 -999.  512.    154.8  0.2930  0.72  1.00  3.60  355.0  15.0 291.6  2.0    0  0.00   84.  1001.     8 NAD-SFC NoSubs
 8 10  4 278 21  -24.0  0.253 -9.000 -9.000 -999.  311.     60.2  0.2940  0.72  1.00  2.60   10.0  15.0 291.1  2.0    0  0.00   87.  1002.     5 NAD-SFC NoSubs
 8 10  4 278 22  -22.5  0.253 -9.000 -9.000 -999.  306.     64.4  0.2940  0.72  1.00  2.60    5.0  15.0 290.8  2.0    0  0.00   88.  1002.     6 NAD-SFC NoSubs
 8 10  4 278 23  -20.8  0.253 -9.000 -9.000 -999.  306.     69.9  0.2930  0.72  1.00  2.60  333.0  15.0 290.1  2.0    0  0.00   89.  1003.     7 NAD-SFC NoSubs
 8 10  4 278 24  -24.6  0.298 -9.000 -9.000 -999.  391.     96.6  0.2720  0.72  1.00  3.10  314.0  15.0 289.5  2.0    0  0.00   89.  1003.     7 NAD-SFC NoSubs
 8 10  5 279  1  -24.6  0.298 -9.000 -9.000 -999.  391.     96.3  0.2720  0.72  1.00  3.10  310.0  15.0 288.8  2.0    0  0.00   90.  1003.     7 NAD-SFC NoSubs
 8 10  5 279  2  -16.5  0.301 -9.000 -9.000 -999.  396.    147.7  0.2720  0.72  1.00  3.10  321.0  15.0 288.1  2.0    0  0.00   89.  1003.    10 NAD-SFC NoSubs
 8 10  5 279  3  -16.9  0.307 -9.000 -9.000 -999.  409.    154.0  0.2930  0.72  1.00  3.10  335.0  15.0 287.8  2.0    0  0.00   89.  1003.    10 NAD-SFC NoSubs
 8 10  5 279  4  -14.1  0.256 -9.000 -9.000 -999.  312.    106.7  0.2930  0.72  1.00  2.60  331.0  15.0 287.6  2.0    0  0.00   88.  1004.    10 NAD-SFC NoSubs
 8 10  5 279  5  -14.1  0.256 -9.000 -9.000 -999.  311.    106.7  0.2930  0.72  1.00  2.60  330.0  15.0 287.5  2.0    0  0.00   88.  1004.    10 NAD-SFC NoSubs
 8 10  5 279  6  -11.0  0.200 -9.000 -9.000 -999.  216.     65.2  0.2720  0.72  1.00  2.10  322.0  15.0 287.4  2.0    0  0.00   88.  1004.    10 NAD-SFC NoSubs
 8 10  5 279  7   -4.6  0.142 -9.000 -9.000 -999.  130.     55.9  0.2720  0.72  0.50  1.50  311.0  15.0 287.2  2.0    0  0.00   89.  1005.     7 NAD-SFC NoSubs
 8 10  5 279  8   41.9  0.258  0.721  0.005  320.  314.    -36.7  0.2930  0.72  0.29  2.10  355.0  15.0 287.8  2.0    0  0.00   83.  1005.     5 NAD-SFC NoSubs
 8 10  5 279  9   92.3  0.169  1.088  0.005  500.  170.     -4.7  0.2930  0.72  0.22  1.00  341.0  15.0 288.9  2.0    0  0.00   78.  1005.     4 NAD-SFC NoSubs
 8 10  5 279 10  132.2 -9.000 -9.000 -9.000  657. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0 289.8  2.0    0  0.00   73.  1005.     3 NAD-SFC NoSubs
 8 10  5 279 11  158.3 -9.000 -9.000 -9.000  875. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0 291.2  2.0    0  0.00   67.  1005.     3 NAD-SFC NoSubs
 8 10  5 279 12  169.9 -9.000 -9.000 -9.000 1040. -999. -99999.0  0.2235  0.72  0.19  0.00    0.0  15.0 292.6  2.0    0  0.00   60.  1004.     3 NAD-SFC NoSubs
 8 10  5 279 13  166.5 -9.000 -9.000 -9.000 1161. -999. -99999.0  0.2235  0.72  0.19  0.00    0.0  15.0 293.8  2.0    0  0.00   55.  1003.     2 NAD-SFC NoSubs
 8 10  5 279 14  148.5  0.117  1.735  0.009 1260.   96.     -1.0  0.2720  0.72  0.20  0.50  322.0  15.0 294.8  2.0    0  0.00   50.  1003.     2 NAD-SFC NoSubs
 8 10  5 279 15  116.1  0.226  1.629  0.010 1333.  258.     -8.9  0.2930  0.72  0.21  1.50  342.0  15.0 295.4  2.0    0  0.00   47.  1002.     2 NAD-SFC NoSubs
 8 10  5 279 16   70.4  0.317  1.388  0.010 1359.  427.    -40.2  0.2930  0.72  0.24  2.60  353.0  15.0 295.5  2.0    0  0.00   46.  1002.     2 NAD-SFC NoSubs
 8 10  5 279 17   15.9  0.287  0.848  0.010 1364.  369.   -132.1  0.2940  0.72  0.36  2.60   18.0  15.0 295.2  2.0    0  0.00   55.  1002.     2 NAD-SFC NoSubs
 8 10  5 279 18  -31.8  0.303 -9.000 -9.000 -999.  401.     78.4  0.2940  0.72  0.76  3.10   29.0  15.0 294.4  2.0    0  0.00   58.  1003.     2 NAD-SFC NoSubs
 8 10  5 279 19  -15.0  0.190 -9.000 -9.000 -999.  206.     41.0  0.2470  0.72  1.00  2.10   55.0  15.0 293.4  2.0    0  0.00   61.  1003.     3 NAD-SFC NoSubs
 8 10  5 279 20  -22.0  0.230 -9.000 -9.000 -999.  264.     49.5  0.2130  0.72  1.00  2.60  107.0  15.0 292.2  2.0    0  0.00   66.  1004.     3 NAD-SFC NoSubs
 8 10  5 279 21  -28.2  0.271 -9.000 -9.000 -999.  339.     63.6  0.1970  0.72  1.00  3.10  133.0  15.0 291.0  2.0    0  0.00   72.  1004.     3 NAD-SFC NoSubs
 8 10  5 279 22  -21.3  0.225 -9.000 -9.000 -999.  257.     47.9  0.1970  0.72  1.00  2.60  139.0  15.0 290.1  2.0    0  0.00   76.  1004.     3 NAD-SFC NoSubs
 8 10  5 279 23  -13.7  0.179 -9.000 -9.000 -999.  182.     37.3  0.1970  0.72  1.00  2.10  146.0  15.0 289.5  2.0    0  0.00   77.  1005.     3 NAD-SFC NoSubs
 8 10  5 279 24   -7.0  0.126 -9.000 -9.000 -999.  108.     25.6  0.1970  0.72  1.00  1.50  142.0  15.0 288.9  2.0    0  0.00   79.  1005.     2 NAD-SFC NoSubs
 8 10  6 280  1   -7.0  0.126 -9.000 -9.000 -999.  107.     25.6  0.1970  0.72  1.00  1.50  129.0  15.0 288.2  2.0    0  0.00   81.  1005.     2 NAD-SFC NoSubs
 8 10  6 280  2   -3.5  0.095 -9.000 -9.000 -999.   70.     22.1  0.1970  0.72  1.00  1.00  144.0  15.0 287.8  2.0    0  0.00   83.  1005.     3 NAD-SFC NoSubs
 8 10  6 280  3   -1.5  0.080 -9.000 -9.000 -999.   54.     31.1  0.1970  0.72  1.00  0.50  146.0  15.0 287.4  2.0    0  0.00   85.  1005.     3 NAD-SFC NoSubs
 8 10  6 280  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0 287.0  2.0    0  0.00   88.  1005.     3 NAD-SFC NoSubs
 8 10  6 280  5   -1.6  0.083 -9.000 -9.000 -999.   57.     31.8  0.2720  0.72  1.00  0.50  311.0  15.0 286.8  2.0    0  0.00   90.  1005.     3 NAD-SFC NoSubs
 8 10  6 280  6   -1.5  0.081 -9.000 -9.000 -999.   55.     31.3  0.2160  0.72  1.00  0.50  298.0  15.0 286.5  2.0    0  0.00   92.  1005.     3 NAD-SFC NoSubs
 8 10  6 280  7   -1.0  0.066 -9.000 -9.000 -999.   41.     26.8  0.2160  0.72  0.51  0.50  276.0  15.0 286.2  2.0    0  0.00   95.  1006.     2 NAD-SFC NoSubs
 8 10  6 280  8   39.5  0.150  0.550  0.005  151.  140.     -7.7  0.2720  0.72  0.29  1.00  317.0  15.0 288.1  2.0    0  0.00   87.  1006.     2 NAD-SFC NoSubs
 8 10  6 280  9   91.0  0.104  0.994  0.006  387.   81.     -1.1  0.2160  0.72  0.22  0.50  290.0  15.0 289.8  2.0    0  0.00   78.  1006.     2 NAD-SFC NoSubs
 8 10  6 280 10  131.2 -9.000 -9.000 -9.000  687. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0 291.4  2.0    0  0.00   72.  1006.     2 NAD-SFC NoSubs
 8 10  6 280 11  157.6 -9.000 -9.000 -9.000  771. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0 293.1  2.0    0  0.00   65.  1005.     2 NAD-SFC NoSubs
 8 10  6 280 12  169.5 -9.000 -9.000 -9.000  853. -999. -99999.0  0.2235  0.72  0.19  0.00    0.0  15.0 294.9  2.0    0  0.00   57.  1005.     2 NAD-SFC NoSubs
 8 10  6 280 13  166.3  0.121  1.626  0.012  927.  101.     -1.0  0.2930  0.72  0.20  0.50  339.0  15.0 296.2  2.0    0  0.00   52.  1004.     2 NAD-SFC NoSubs
 8 10  6 280 14  148.3  0.232  1.599  0.012  987.  269.     -7.6  0.2930  0.72  0.20  1.50  346.0  15.0 297.2  2.0    0  0.00   49.  1003.     2 NAD-SFC NoSubs
 8 10  6 280 15  115.8  0.284  1.491  0.011 1026.  363.    -17.7  0.2940  0.72  0.21  2.10    7.0  15.0 297.9  2.0    0  0.00   49.  1003.     2 NAD-SFC NoSubs
 8 10  6 280 16   70.1  0.270  1.271  0.011 1048.  337.    -25.1  0.2940  0.72  0.25  2.10    8.0  15.0 297.9  2.0    0  0.00   50.  1003.     2 NAD-SFC NoSubs
 8 10  6 280 17   15.7  0.240  0.774  0.011 1053.  282.    -78.5  0.2940  0.72  0.37  2.10   22.0  15.0 297.8  2.0    0  0.00   56.  1003.     2 NAD-SFC NoSubs
 8 10  6 280 18   -8.2  0.140 -9.000 -9.000 -999.  130.     29.8  0.2940  0.72  0.77  1.50   17.0  15.0 296.8  2.0    0  0.00   59.  1004.     2 NAD-SFC NoSubs
 8 10  6 280 19   -1.6  0.084 -9.000 -9.000 -999.   59.     31.9  0.2940  0.72  1.00  0.50    7.0  15.0 295.4  2.0    0  0.00   64.  1004.     2 NAD-SFC NoSubs
 8 10  6 280 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0 294.1  2.0    0  0.00   70.  1005.     2 NAD-SFC NoSubs
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 8 10   6 280 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00    0.0  15.0 292.9  2.0    0  0.00   76. 1005.     2 NAD-SFC NoSubs
 8 10   6 280 22   -1.5  0.081 -9.000 -9.000 -999.   55.     31.3 0.2090  0.72  1.00  0.50   75.0  15.0 291.9  2.0    0  0.00   81. 1005.     2 NAD-SFC NoSubs
 8 10   6 280 23   -1.6  0.082 -9.000 -9.000 -999.   57.     31.7 0.2470  0.72  1.00  0.50   55.0  15.0 291.0  2.0    0  0.00   85. 1006.     2 NAD-SFC NoSubs
 8 10   6 280 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00    0.0  15.0 290.2  2.0    0  0.00   88. 1006.     2 NAD-SFC NoSubs
 8 10   7 281  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00    0.0  15.0 289.6  2.0    0  0.00   91. 1006.     2 NAD-SFC NoSubs
 8 10   7 281  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00    0.0  15.0 289.1  2.0    0  0.00   93. 1006.     2 NAD-SFC NoSubs
 8 10   7 281  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00    0.0  15.0 288.8  2.0    0  0.00   93. 1006.     2 NAD-SFC NoSubs
 8 10   7 281  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00    0.0  15.0 288.2  2.0    0  0.00   94. 1006.     2 NAD-SFC NoSubs
 8 10   7 281  5   -1.6  0.084 -9.000 -9.000 -999.   58.     32.0 0.2720  0.72  1.00  0.50  306.0  15.0 287.9  2.0    0  0.00   94. 1007.     2 NAD-SFC NoSubs
 8 10   7 281  6   -8.1  0.137 -9.000 -9.000 -999.  122.     28.5 0.2720  0.72  1.00  1.50  305.0  15.0 287.8  2.0    0  0.00   92. 1007.     2 NAD-SFC NoSubs
 8 10   7 281  7   -6.4  0.138 -9.000 -9.000 -999.  124.     37.5 0.2720  0.72  0.51  1.50  311.0  15.0 287.6  2.0    0  0.00   91. 1008.     2 NAD-SFC NoSubs
 8 10   7 281  8   39.0  0.198  0.463  0.010   91.  211.    -17.8 0.2720  0.72  0.29  1.50  319.0  15.0 289.4  2.0    0  0.00   86. 1008.     2 NAD-SFC NoSubs
 8 10   7 281  9   90.7  0.104  0.901  0.011  290.   84.     -1.1 0.2160  0.72  0.22  0.50  297.0  15.0 291.5  2.0    0  0.00   79. 1008.     2 NAD-SFC NoSubs
 8 10   7 281 10  131.1 -9.000 -9.000 -9.000  460. -999. -99999.0 0.2235  0.72  0.20  0.00    0.0  15.0 294.0  2.0    0  0.00   69. 1008.     2 NAD-SFC NoSubs
 8 10   7 281 11  157.7 -9.000 -9.000 -9.000  588. -999. -99999.0 0.2235  0.72  0.20  0.00    0.0  15.0 295.9  2.0    0  0.00   60. 1007.     2 NAD-SFC NoSubs
 8 10   7 281 12  169.5 -9.000 -9.000 -9.000  687. -999. -99999.0 0.2235  0.72  0.19  0.00    0.0  15.0 297.5  2.0    0  0.00   53. 1006.     2 NAD-SFC NoSubs
 8 10   7 281 13  166.5  0.121  1.518  0.011  755.  101.     -1.0 0.2930  0.72  0.20  0.50  334.0  15.0 299.0  2.0    0  0.00   48. 1005.     2 NAD-SFC NoSubs
 8 10   7 281 14  148.5  0.180  1.497  0.010  810.  184.     -3.5 0.2930  0.72  0.20  1.00  359.0  15.0 300.1  2.0    0  0.00   44. 1004.     2 NAD-SFC NoSubs
 8 10   7 281 15  115.8  0.284  1.401  0.009  851.  363.    -17.7 0.2940  0.72  0.21  2.10   13.0  15.0 300.5  2.0    0  0.00   43. 1003.     2 NAD-SFC NoSubs
 8 10   7 281 16   69.9  0.270  1.195  0.009  874.  337.    -25.2 0.2940  0.72  0.25  2.10   25.0  15.0 300.4  2.0    0  0.00   47. 1003.     2 NAD-SFC NoSubs
 8 10   7 281 17   15.4  0.333  0.724  0.008  878.  461.   -214.4 0.2940  0.72  0.37  3.10   18.0  15.0 299.8  2.0    0  0.00   53. 1003.     2 NAD-SFC NoSubs
 8 10   7 281 18  -29.9  0.289 -9.000 -9.000 -999.  373.     71.8 0.2470  0.72  1.00  3.10   34.0  15.0 298.4  2.0    0  0.00   56. 1003.     2 NAD-SFC NoSubs
 8 10   7 281 19   -8.2  0.140 -9.000 -9.000 -999.  142.     29.8 0.2940  0.72  1.00  1.50   20.0  15.0 297.1  2.0    0  0.00   59. 1003.     2 NAD-SFC NoSubs
 8 10   7 281 20   -1.4  0.079 -9.000 -9.000 -999.   55.     30.8 0.1750  0.72  1.00  0.50  257.0  15.0 295.6  2.0    0  0.00   65. 1003.     2 NAD-SFC NoSubs
 8 10   7 281 21   -1.6  0.083 -9.000 -9.000 -999.   57.     31.8 0.2720  0.72  1.00  0.50  305.0  15.0 294.2  2.0    0  0.00   71. 1004.     2 NAD-SFC NoSubs
 8 10   7 281 22  -16.5  0.200 -9.000 -9.000 -999.  214.     43.2 0.2930  0.72  1.00  2.10  344.0  15.0 293.2  2.0    0  0.00   74. 1004.     2 NAD-SFC NoSubs
 8 10   7 281 23  -25.8  0.252 -9.000 -9.000 -999.  303.     55.3 0.2930  0.72  1.00  2.60  337.0  15.0 292.6  2.0    0  0.00   76. 1004.     2 NAD-SFC NoSubs
 8 10   7 281 24  -16.0  0.195 -9.000 -9.000 -999.  208.     41.8 0.2720  0.72  1.00  2.10  321.0  15.0 291.8  2.0    0  0.00   78. 1004.     2 NAD-SFC NoSubs
 8 10   8 282  1  -14.4  0.183 -9.000 -9.000 -999.  188.     38.1 0.2160  0.72  1.00  2.10  286.0  15.0 291.0  2.0    0  0.00   80. 1004.     2 NAD-SFC NoSubs
 8 10   8 282  2   -7.2  0.129 -9.000 -9.000 -999.  112.     26.5 0.2160  0.72  1.00  1.50  283.0  15.0 290.6  2.0    0  0.00   81. 1004.     2 NAD-SFC NoSubs
 8 10   8 282  3   -3.6  0.097 -9.000 -9.000 -999.   72.     22.4 0.2160  0.72  1.00  1.00  284.0  15.0 290.2  2.0    0  0.00   83. 1004.     2 NAD-SFC NoSubs
 8 10   8 282  4   -1.7  0.084 -9.000 -9.000 -999.   59.     32.1 0.2930  0.72  1.00  0.50  332.0  15.0 289.8  2.0    0  0.00   85. 1004.     2 NAD-SFC NoSubs
 8 10   8 282  5   -1.7  0.084 -9.000 -9.000 -999.   59.     32.1 0.2940  0.72  1.00  0.50   27.0  15.0 289.4  2.0    0  0.00   88. 1004.     2 NAD-SFC NoSubs
 8 10   8 282  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00    0.0  15.0 289.1  2.0    0  0.00   90. 1004.     2 NAD-SFC NoSubs
 8 10   8 282  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  0.52  0.00    0.0  15.0 288.8  2.0    0  0.00   92. 1004.     2 NAD-SFC NoSubs
 8 10   8 282  8   38.0  0.152  0.540  0.011  148.  143.     -8.3 0.2930  0.72  0.29  1.00  338.0  15.0 289.4  2.0    0  0.00   88. 1004.     2 NAD-SFC NoSubs
 8 10   8 282  9   89.3  0.111  0.901  0.012  293.   89.     -1.4 0.2930  0.72  0.22  0.50  333.0  15.0 290.8  2.0    0  0.00   81. 1004.     2 NAD-SFC NoSubs
 8 10   8 282 10  129.2 -9.000 -9.000 -9.000  436. -999. -99999.0 0.2235  0.72  0.20  0.00    0.0  15.0 291.9  2.0    0  0.00   75. 1003.     2 NAD-SFC NoSubs
 8 10   8 282 11  155.4  0.112  1.354  0.014  571.   90.     -1.0 0.2160  0.72  0.20  0.50  271.0  15.0 293.2  2.0    0  0.00   68. 1002.     2 NAD-SFC NoSubs
 8 10   8 282 12  167.1 -9.000 -9.000 -9.000  677. -999. -99999.0 0.2235  0.72  0.19  0.00    0.0  15.0 295.0  2.0    0  0.00   61. 1001.     2 NAD-SFC NoSubs
 8 10   8 282 13  164.0 -9.000 -9.000 -9.000  742. -999. -99999.0 0.2235  0.72  0.20  0.00    0.0  15.0 296.8  2.0    0  0.00   54. 1000.     2 NAD-SFC NoSubs
 8 10   8 282 14  146.1  0.119  1.482  0.013  795.   98.     -1.0 0.2930  0.72  0.20  0.50  342.0  15.0 298.1  2.0    0  0.00   50.  999.     2 NAD-SFC NoSubs
 8 10   8 282 15  113.5  0.225  1.385  0.012  835.  257.     -9.0 0.2930  0.72  0.21  1.50  355.0  15.0 298.9  2.0    0  0.00   48.  998.     2 NAD-SFC NoSubs
 8 10   8 282 16   67.7  0.269  1.177  0.012  857.  335.    -25.6 0.2930  0.72  0.25  2.10  355.0  15.0 299.0  2.0    0  0.00   49.  998.     2 NAD-SFC NoSubs
 8 10   8 282 17   13.6  0.238  0.690  0.012  861.  278.    -88.0 0.2930  0.72  0.38  2.10  354.0  15.0 298.8  2.0    0  0.00   55.  998.     2 NAD-SFC NoSubs
 8 10   8 282 18   -8.1  0.140 -9.000 -9.000 -999.  130.     29.8 0.2930  0.72  1.00  1.50  347.0  15.0 297.6  2.0    0  0.00   59.  998.     2 NAD-SFC NoSubs
 8 10   8 282 19   -4.0  0.102 -9.000 -9.000 -999.   78.     23.7 0.2930  0.72  1.00  1.00  331.0  15.0 296.2  2.0    0  0.00   63.  998.     2 NAD-SFC NoSubs
 8 10   8 282 20   -7.9  0.137 -9.000 -9.000 -999.  121.     28.9 0.2720  0.72  1.00  1.50  313.0  15.0 295.1  2.0    0  0.00   67.  998.     2 NAD-SFC NoSubs
 8 10   8 282 21  -24.7  0.246 -9.000 -9.000 -999.  293.     53.8 0.2720  0.72  1.00  2.60  311.0  15.0 293.9  2.0    0  0.00   70.  998.     2 NAD-SFC NoSubs
 8 10   8 282 22  -36.5  0.347 -9.000 -9.000 -999.  490.    101.7 0.2720  0.72  1.00  3.60  326.0  15.0 292.8  2.0    0  0.00   71.  998.     2 NAD-SFC NoSubs
 8 10   8 282 23  -32.0  0.303 -9.000 -9.000 -999.  401.     77.4 0.2930  0.72  1.00  3.10  336.0  15.0 291.8  2.0    0  0.00   71.  999.     2 NAD-SFC NoSubs
 8 10   8 282 24  -32.1  0.303 -9.000 -9.000 -999.  400.     77.3 0.2930  0.72  1.00  3.10  354.0  15.0 291.2  2.0    0  0.00   71.  999.     2 NAD-SFC NoSubs
 8 10   9 283  1  -32.1  0.303 -9.000 -9.000 -999.  400.     77.1 0.2930  0.72  1.00  3.10  349.0  15.0 290.6  2.0    0  0.00   71.  999.     2 NAD-SFC NoSubs
 8 10   9 283  2  -25.8  0.251 -9.000 -9.000 -999.  304.     55.0 0.2930  0.72  1.00  2.60  339.0  15.0 290.1  2.0    0  0.00   71.  999.     2 NAD-SFC NoSubs
 8 10   9 283  3  -16.5  0.200 -9.000 -9.000 -999.  215.     42.9 0.2930  0.72  1.00  2.10  334.0  15.0 289.4  2.0    0  0.00   72.  999.     2 NAD-SFC NoSubs
 8 10   9 283  4   -8.0  0.137 -9.000 -9.000 -999.  122.     28.6 0.2720  0.72  1.00  1.50  321.0  15.0 288.8  2.0    0  0.00   73. 1000.     2 NAD-SFC NoSubs
 8 10   9 283  5  -16.0  0.195 -9.000 -9.000 -999.  207.     41.5 0.2720  0.72  1.00  2.10  309.0  15.0 287.9  2.0    0  0.00   74. 1000.     2 NAD-SFC NoSubs
 8 10   9 283  6   -8.0  0.137 -9.000 -9.000 -999.  122.     28.5 0.2720  0.72  1.00  1.50  312.0  15.0 287.2  2.0    0  0.00   74. 1001.     2 NAD-SFC NoSubs
 8 10   9 283  7   -6.3  0.138 -9.000 -9.000 -999.  124.     37.3 0.2720  0.72  0.53  1.50  313.0  15.0 286.6  2.0    0  0.00   74. 1002.     3 NAD-SFC NoSubs
 8 10   9 283  8   37.9  0.348  0.607  0.008  211.  492.    -99.1 0.2930  0.72  0.30  3.10  352.0  15.0 287.5  2.0    0  0.00   65. 1002.     3 NAD-SFC NoSubs
 8 10   9 283  9   88.7  0.369  0.922  0.008  315.  537.    -50.4 0.2930  0.72  0.23  3.10  336.0  15.0 289.1  2.0    0  0.00   55. 1002.     3 NAD-SFC NoSubs
 8 10   9 283 10  128.1  0.333  1.168  0.008  445.  462.    -25.8 0.2930  0.72  0.20  2.60  342.0  15.0 290.2  2.0    0  0.00   49. 1002.     3 NAD-SFC NoSubs
 8 10   9 283 11  153.5  0.385  1.374  0.008  604.  573.    -33.2 0.2930  0.72  0.20  3.10  335.0  15.0 291.4  2.0    0  0.00   44. 1002.     2 NAD-SFC NoSubs
 8 10   9 283 12  164.8  0.434  1.505  0.008  739.  685.    -44.2 0.2930  0.72  0.20  3.60  337.0  15.0 292.4  2.0    0  0.00   41. 1001.     2 NAD-SFC NoSubs
 8 10   9 283 13  161.2  0.479  1.565  0.009  850.  794.    -60.7 0.2930  0.72  0.20  4.10  338.0  15.0 293.2  2.0    0  0.00   37. 1000.     2 NAD-SFC NoSubs
 8 10   9 283 14  142.7  0.520  1.553  0.009  937.  900.    -88.1 0.2930  0.72  0.20  4.60  341.0  15.0 293.6  2.0    0  0.00   36. 1000.     2 NAD-SFC NoSubs
 8 10   9 283 15  109.6  0.559  1.451  0.009  995. 1003.   -142.4 0.2930  0.72  0.21  5.10  338.0  15.0 293.4  2.0    0  0.00   38. 1000.     2 NAD-SFC NoSubs
 8 10   9 283 16   63.4  0.359  1.221  0.009 1025.  554.    -65.2 0.2930  0.72  0.25  3.10  334.0  15.0 292.8  2.0    0  0.00   46.  999.     2 NAD-SFC NoSubs
 8 10   9 283 17    9.2  0.369  0.644  0.009 1028.  538.   -483.8 0.2720  0.72  0.38  3.60  318.0  15.0 291.9  2.0    0  0.00   48.  999.     2 NAD-SFC NoSubs
 8 10   9 283 18  -42.2  0.397 -9.000 -9.000 -999.  600.    132.2 0.2720  0.72  1.00  4.10  322.0  15.0 290.2  2.0    0  0.00   51. 1000.     2 NAD-SFC NoSubs
 8 10   9 283 19  -37.0  0.347 -9.000 -9.000 -999.  491.    100.3 0.2720  0.72  1.00  3.60  325.0  15.0 288.8  2.0    0  0.00   54. 1000.     2 NAD-SFC NoSubs
 8 10   9 283 20  -31.8  0.296 -9.000 -9.000 -999.  388.     73.0 0.2720  0.72  1.00  3.10  310.0  15.0 287.5  2.0    0  0.00   57. 1000.     2 NAD-SFC NoSubs
 8 10   9 283 21  -25.0  0.246 -9.000 -9.000 -999.  294.     53.0 0.2720  0.72  1.00  2.60  312.0  15.0 286.6  2.0    0  0.00   58. 1001.     2 NAD-SFC NoSubs
 8 10   9 283 22   -4.0  0.101 -9.000 -9.000 -999.   95.     23.3 0.2720  0.72  1.00  1.00  315.0  15.0 285.9  2.0    0  0.00   59. 1001.     2 NAD-SFC NoSubs
 8 10   9 283 23   -1.5  0.080 -9.000 -9.000 -999.   54.     31.2 0.1750  0.72  1.00  0.50  248.0  15.0 285.4  2.0    0  0.00   59. 1001.     2 NAD-SFC NoSubs
 8 10   9 283 24   -1.5  0.080 -9.000 -9.000 -999.   54.     31.2 0.1750  0.72  1.00  0.50  245.0  15.0 285.0  2.0    0  0.00   59. 1001.     2 NAD-SFC NoSubs
 8 10  10 284  1   -1.5  0.080 -9.000 -9.000 -999.   54.     31.2 0.1750  0.72  1.00  0.50  264.0  15.0 284.6  2.0    0  0.00   59. 1001.     2 NAD-SFC NoSubs
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 8 10 10 284  2   -3.4  0.094 -9.000 -9.000 -999.   69.    21.7  0.1750  0.72  1.00   1.00  265.0  15.0  284.2  2.0   0  0.00   59.  1001.    2 NAD-SFC NoSubs
 8 10 10 284  3   -6.7  0.123 -9.000 -9.000 -999.  103.    24.5  0.1750  0.72  1.00   1.50  249.0  15.0  283.6  2.0   0  0.00   60.  1002.    2 NAD-SFC NoSubs
 8 10 10 284  4  -13.9  0.178 -9.000 -9.000 -999.  180.    36.1  0.1950  0.72  1.00   2.10  237.0  15.0  283.1  2.0   0  0.00   61.  1002.    2 NAD-SFC NoSubs
 8 10 10 284  5  -13.3  0.173 -9.000 -9.000 -999.  172.    34.7  0.1750  0.72  1.00   2.10  244.0  15.0  282.6  2.0   0  0.00   62.  1002.    2 NAD-SFC NoSubs
 8 10 10 284  6  -21.7  0.224 -9.000 -9.000 -999.  254.    46.3  0.1950  0.72  1.00   2.60  232.0  15.0  282.1  2.0   0  0.00   62.  1003.    2 NAD-SFC NoSubs
 8 10 10 284  7  -20.9  0.273 -9.000 -9.000 -999.  342.    86.9  0.1950  0.72  0.53   3.10  227.0  15.0  281.5  2.0   0  0.00   63.  1004.    2 NAD-SFC NoSubs
 8 10 10 284  8   34.4  0.346  0.576  0.008  198.  488.  -107.6  0.2930  0.72  0.30   3.10  330.0  15.0  283.1  2.0   0  0.00   56.  1004.    2 NAD-SFC NoSubs
 8 10 10 284  9   85.5  0.506  0.985  0.006  400.  864.  -135.6  0.2930  0.72  0.23   4.60  339.0  15.0  284.9  2.0   0  0.00   46.  1004.    2 NAD-SFC NoSubs
 8 10 10 284 10  125.3  0.516  1.217  0.006  515.  890.   -98.3  0.2930  0.72  0.20   4.60  341.0  15.0  286.5  2.0   0  0.00   40.  1004.    2 NAD-SFC NoSubs
 8 10 10 284 11  151.1  0.522  1.383  0.006  627.  905.   -84.3  0.2930  0.72  0.20   4.60  344.0  15.0  287.6  2.0   0  0.00   38.  1004.    2 NAD-SFC NoSubs
 8 10 10 284 12  162.5  0.571  1.512  0.006  762. 1034.  -102.3  0.2930  0.72  0.20   5.10  341.0  15.0  288.5  2.0   0  0.00   35.  1003.    3 NAD-SFC NoSubs
 8 10 10 284 13  158.7  0.616  1.578  0.006  885. 1158.  -131.4  0.2720  0.72  0.20   5.70  329.0  15.0  289.0  2.0   0  0.00   34.  1002.    3 NAD-SFC NoSubs
 8 10 10 284 14  140.2  0.658  1.568  0.007  982. 1279.  -181.3  0.2720  0.72  0.20   6.20  327.0  15.0  289.2  2.0   0  0.00   35.  1001.    3 NAD-SFC NoSubs
 8 10 10 284 15  107.4  0.710  1.470  0.007 1056. 1433.  -297.4  0.2930  0.72  0.21   6.70  330.0  15.0  289.2  2.0   0  0.00   35.  1001.    3 NAD-SFC NoSubs
 8 10 10 284 16   61.7  0.639  1.238  0.007 1096. 1235.  -377.3  0.2720  0.72  0.25   6.20  329.0  15.0  288.8  2.0   0  0.00   38.  1000.    3 NAD-SFC NoSubs
 8 10 10 284 17    6.5  0.366  0.584  0.006 1097.  615.  -679.1  0.2720  0.72  0.39   3.60  310.0  15.0  287.4  2.0   0  0.00   50.  1000.    2 NAD-SFC NoSubs
 8 10 10 284 18  -42.9  0.397 -9.000 -9.000 -999.  600.   130.0  0.2720  0.72  1.00   4.10  305.0  15.0  285.6  2.0   0  0.00   55.  1000.    2 NAD-SFC NoSubs
 8 10 10 284 19  -48.6  0.447 -9.000 -9.000 -999.  717.   164.3  0.2720  0.72  1.00   4.60  304.0  15.0  284.1  2.0   0  0.00   58.  1000.    2 NAD-SFC NoSubs
 8 10 10 284 20  -45.7  0.420 -9.000 -9.000 -999.  653.   144.1  0.2160  0.72  1.00   4.60  296.0  15.0  283.2  2.0   0  0.00   60.  1000.    2 NAD-SFC NoSubs
 8 10 10 284 21  -40.6  0.372 -9.000 -9.000 -999.  547.   113.2  0.2160  0.72  1.00   4.10  299.0  15.0  282.6  2.0   0  0.00   60.  1000.    2 NAD-SFC NoSubs
 8 10 10 284 22  -35.6  0.325 -9.000 -9.000 -999.  446.    86.1  0.2160  0.72  1.00   3.60  299.0  15.0  282.1  2.0   0  0.00   61.  1001.    2 NAD-SFC NoSubs
 8 10 10 284 23  -22.7  0.230 -9.000 -9.000 -999.  269.    48.0  0.2160  0.72  1.00   2.60  298.0  15.0  281.6  2.0   0  0.00   62.  1001.    2 NAD-SFC NoSubs
 8 10 10 284 24  -14.5  0.183 -9.000 -9.000 -999.  188.    37.4  0.2160  0.72  1.00   2.10  296.0  15.0  281.0  2.0   0  0.00   63.  1001.    2 NAD-SFC NoSubs
 8 10 11 285  1  -25.3  0.246 -9.000 -9.000 -999.  292.    52.4  0.2720  0.72  1.00   2.60  300.0  15.0  280.5  2.0   0  0.00   63.  1001.    2 NAD-SFC NoSubs
 8 10 11 285  2  -32.7  0.296 -9.000 -9.000 -999.  387.    71.0  0.2720  0.72  1.00   3.10  302.0  15.0  280.0  2.0   0  0.00   63.  1002.    2 NAD-SFC NoSubs
 8 10 11 285  3  -30.7  0.278 -9.000 -9.000 -999.  351.    62.3  0.2160  0.72  1.00   3.10  296.0  15.0  279.4  2.0   0  0.00   64.  1002.    2 NAD-SFC NoSubs
 8 10 11 285  4  -36.0  0.325 -9.000 -9.000 -999.  444.    85.1  0.2160  0.72  1.00   3.60  296.0  15.0  278.9  2.0   0  0.00   64.  1003.    2 NAD-SFC NoSubs
 8 10 11 285  5  -36.1  0.325 -9.000 -9.000 -999.  444.    84.9  0.2160  0.72  1.00   3.60  298.0  15.0  278.4  2.0   0  0.00   64.  1004.    2 NAD-SFC NoSubs
 8 10 11 285  6  -30.9  0.278 -9.000 -9.000 -999.  352.    62.0  0.2160  0.72  1.00   3.10  295.0  15.0  278.1  2.0   0  0.00   65.  1005.    2 NAD-SFC NoSubs
 8 10 11 285  7  -18.8  0.233 -9.000 -9.000 -999.  270.    59.9  0.2160  0.72  0.54   2.60  290.0  15.0  277.9  2.0   0  0.00   65.  1006.    2 NAD-SFC NoSubs
 8 10 11 285  8   32.9  0.535  0.453  0.005  101.  938.  -416.9  0.2930  0.72  0.30   5.10  334.0  15.0  280.4  2.0   0  0.00   54.  1006.    2 NAD-SFC NoSubs
 8 10 11 285  9   84.0  0.609  0.909  0.005  321. 1139.  -241.3  0.2930  0.72  0.23   5.70  333.0  15.0  283.0  2.0   0  0.00   39.  1007.    2 NAD-SFC NoSubs
 8 10 11 285 10  123.6  0.516  1.221  0.005  529.  899.   -99.7  0.2930  0.72  0.20   4.60  333.0  15.0  284.2  2.0   0  0.00   35.  1007.    2 NAD-SFC NoSubs
 8 10 11 285 11  149.7  0.468  1.482  0.005  782.  772.   -61.5  0.2720  0.72  0.20   4.10  328.0  15.0  285.4  2.0   0  0.00   32.  1007.    3 NAD-SFC NoSubs
 8 10 11 285 12  160.4  0.524  1.665  0.005 1034.  909.   -80.5  0.2930  0.72  0.20   4.60  334.0  15.0  286.4  2.0   0  0.00   30.  1006.    2 NAD-SFC NoSubs
 8 10 11 285 13  156.6  0.570  1.726  0.005 1180. 1030.  -105.8  0.2930  0.72  0.20   5.10  342.0  15.0  287.1  2.0   0  0.00   29.  1006.    2 NAD-SFC NoSubs
 8 10 11 285 14  137.9  0.566  1.707  0.005 1296. 1021.  -117.6  0.2930  0.72  0.20   5.10  337.0  15.0  287.5  2.0   0  0.00   29.  1005.    2 NAD-SFC NoSubs
 8 10 11 285 15  104.8  0.511  1.593  0.005 1385.  881.  -114.2  0.2930  0.72  0.21   4.60  345.0  15.0  287.8  2.0   0  0.00   29.  1005.    2 NAD-SFC NoSubs
 8 10 11 285 16   58.8  0.497  1.330  0.005 1436.  842.  -187.3  0.2930  0.72  0.26   4.60  343.0  15.0  287.6  2.0   0  0.00   31.  1005.    2 NAD-SFC NoSubs
 8 10 11 285 17    5.1  0.274  0.588  0.005 1438.  392.  -363.0  0.2930  0.72  0.39   2.60  333.0  15.0  287.0  2.0   0  0.00   42.  1005.    2 NAD-SFC NoSubs
 8 10 11 285 18  -25.1  0.246 -9.000 -9.000 -999.  294.    53.0  0.2720  0.72  1.00   2.60  326.0  15.0  286.4  2.0   0  0.00   41.  1005.    2 NAD-SFC NoSubs
 8 10 11 285 19   -8.1  0.137 -9.000 -9.000 -999.  128.    28.4  0.2720  0.72  1.00   1.50  319.0  15.0  285.5  2.0   0  0.00   43.  1005.    2 NAD-SFC NoSubs
 8 10 11 285 20   -1.7  0.084 -9.000 -9.000 -999.   59.    32.1  0.2720  0.72  1.00   0.50  327.0  15.0  284.4  2.0   0  0.00   46.  1006.    2 NAD-SFC NoSubs
 8 10 11 285 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  283.4  2.0   0  0.00   49.  1006.    2 NAD-SFC NoSubs
 8 10 11 285 22   -7.1  0.126 -9.000 -9.000 -999.  107.    25.4  0.1970  0.72  1.00   1.50  128.0  15.0  282.0  2.0   0  0.00   55.  1007.    2 NAD-SFC NoSubs
 8 10 11 285 23  -22.0  0.225 -9.000 -9.000 -999.  255.    46.3  0.1970  0.72  1.00   2.60  128.0  15.0  280.9  2.0   0  0.00   58.  1007.    2 NAD-SFC NoSubs
 8 10 11 285 24  -22.0  0.225 -9.000 -9.000 -999.  255.    46.2  0.1970  0.72  1.00   2.60  133.0  15.0  280.1  2.0   0  0.00   60.  1007.    2 NAD-SFC NoSubs
 8 10 12 286  1  -22.0  0.225 -9.000 -9.000 -999.  255.    46.2  0.1970  0.72  1.00   2.60  143.0  15.0  279.6  2.0   0  0.00   61.  1008.    2 NAD-SFC NoSubs
 8 10 12 286  2  -13.6  0.174 -9.000 -9.000 -999.  175.    34.9  0.1810  0.72  1.00   2.10  162.0  15.0  279.2  2.0   0  0.00   61.  1008.    2 NAD-SFC NoSubs
 8 10 12 286  3   -3.6  0.096 -9.000 -9.000 -999.   73.    22.0  0.1900  0.72  1.00   1.00  202.0  15.0  278.8  2.0   0  0.00   62.  1009.    2 NAD-SFC NoSubs
 8 10 12 286  4   -3.5  0.095 -9.000 -9.000 -999.   70.    21.8  0.1750  0.72  1.00   1.00  240.0  15.0  278.1  2.0   0  0.00   65.  1009.    2 NAD-SFC NoSubs
 8 10 12 286  5   -6.9  0.123 -9.000 -9.000 -999.  103.    24.3  0.1750  0.72  1.00   1.50  268.0  15.0  277.6  2.0   0  0.00   70.  1010.    2 NAD-SFC NoSubs
 8 10 12 286  6  -13.5  0.173 -9.000 -9.000 -999.  172.    34.3  0.1750  0.72  1.00   2.10  267.0  15.0  277.2  2.0   0  0.00   74.  1010.    2 NAD-SFC NoSubs
 8 10 12 286  7  -19.5  0.232 -9.000 -9.000 -999.  269.    58.0  0.2160  0.72  0.55   2.60  271.0  15.0  276.9  2.0   0  0.00   74.  1011.    2 NAD-SFC NoSubs
 8 10 12 286  8   31.7  0.338  0.423  0.005   86.  472.  -110.3  0.2720  0.72  0.30   3.10  314.0  15.0  279.1  2.0   0  0.00   55.  1012.    2 NAD-SFC NoSubs
 8 10 12 286  9   82.6  0.214  0.816  0.005  238.  247.   -10.7  0.2720  0.72  0.23   1.50  316.0  15.0  281.1  2.0   0  0.00   43.  1012.    2 NAD-SFC NoSubs
 8 10 12 286 10  122.2  0.108  1.145  0.005  444.   92.    -1.0  0.2160  0.72  0.21   0.50  278.0  15.0  283.1  2.0   0  0.00   37.  1012.    2 NAD-SFC NoSubs
 8 10 12 286 11  148.0 -9.000 -9.000 -9.000  685. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  284.8  2.0   0  0.00   33.  1012.    2 NAD-SFC NoSubs
 8 10 12 286 12  159.1 -9.000 -9.000 -9.000  945. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  286.1  2.0   0  0.00   30.  1011.    2 NAD-SFC NoSubs
 8 10 12 286 13  155.3 -9.000 -9.000 -9.000 1118. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  287.2  2.0   0  0.00   27.  1010.    2 NAD-SFC NoSubs
 8 10 12 286 14  136.7  0.115  1.678  0.005 1248.   94.    -1.0  0.2720  0.72  0.20   0.50  322.0  15.0  288.0  2.0   0  0.00   26.  1010.    2 NAD-SFC NoSubs
 8 10 12 286 15  103.6  0.172  1.566  0.006 1338.  171.    -4.4  0.2930  0.72  0.21   1.00  348.0  15.0  288.5  2.0   0  0.00   26.  1010.    2 NAD-SFC NoSubs
 8 10 12 286 16   57.6 -9.000 -9.000 -9.000 1370. -999. -99999.0  0.2235  0.72  0.26   0.00    0.0  15.0  288.6  2.0   0  0.00   28.  1010.    2 NAD-SFC NoSubs
 8 10 12 286 17    4.2  0.224  0.542  0.006 1372.  255.   -244.3  0.2940  0.72  0.40   2.10   24.0  15.0  288.2  2.0   0  0.00   34.  1010.    2 NAD-SFC NoSubs
 8 10 12 286 18   -8.4  0.140 -9.000 -9.000 -999.  128.    29.3  0.2940  0.72  1.00   1.50   26.0  15.0  287.4  2.0   0  0.00   37.  1011.    2 NAD-SFC NoSubs
 8 10 12 286 19   -3.9  0.099 -9.000 -9.000 -999.   75.    22.9  0.2470  0.72  1.00   1.00   56.0  15.0  286.2  2.0   0  0.00   42.  1011.    2 NAD-SFC NoSubs
 8 10 12 286 20   -3.7  0.097 -9.000 -9.000 -999.   73.    22.4  0.2130  0.72  1.00   1.00   95.0  15.0  284.8  2.0   0  0.00   47.  1012.    2 NAD-SFC NoSubs
 8 10 12 286 21   -3.6  0.096 -9.000 -9.000 -999.   71.    22.1  0.1970  0.72  1.00   1.00  131.0  15.0  283.5  2.0   0  0.00   53.  1012.    2 NAD-SFC NoSubs
 8 10 12 286 22  -13.6  0.174 -9.000 -9.000 -999.  175.    35.1  0.1810  0.72  1.00   2.10  164.0  15.0  282.6  2.0   0  0.00   56.  1013.    2 NAD-SFC NoSubs
 8 10 12 286 23  -13.6  0.174 -9.000 -9.000 -999.  175.    35.1  0.1810  0.72  1.00   2.10  170.0  15.0  282.0  2.0   0  0.00   55.  1013.    2 NAD-SFC NoSubs
 8 10 12 286 24  -13.9  0.176 -9.000 -9.000 -999.  178.    35.7  0.1900  0.72  1.00   2.10  194.0  15.0  281.6  2.0   0  0.00   54.  1013.    2 NAD-SFC NoSubs
 8 10 13 287  1   -7.1  0.126 -9.000 -9.000 -999.  108.    25.2  0.1950  0.72  1.00   1.50  235.0  15.0  281.2  2.0   0  0.00   53.  1013.    2 NAD-SFC NoSubs
 8 10 13 287  2  -23.0  0.230 -9.000 -9.000 -999.  265.    47.9  0.2160  0.72  1.00   2.60  271.0  15.0  280.9  2.0   0  0.00   53.  1014.    2 NAD-SFC NoSubs
 8 10 13 287  3  -31.0  0.278 -9.000 -9.000 -999.  351.    62.5  0.2160  0.72  1.00   3.10  272.0  15.0  280.4  2.0   0  0.00   56.  1014.    2 NAD-SFC NoSubs
 8 10 13 287  4  -29.4  0.263 -9.000 -9.000 -999.  324.    55.9  0.1750  0.72  1.00   3.10  264.0  15.0  279.9  2.0   0  0.00   58.  1014.    2 NAD-SFC NoSubs
 8 10 13 287  5  -29.4  0.263 -9.000 -9.000 -999.  323.    55.8  0.1750  0.72  1.00   3.10  251.0  15.0  279.5  2.0   0  0.00   58.  1015.    2 NAD-SFC NoSubs
 8 10 13 287  6  -29.5  0.263 -9.000 -9.000 -999.  323.    55.8  0.1750  0.72  1.00   3.10  249.0  15.0  279.4  2.0   0  0.00   55.  1015.    2 NAD-SFC NoSubs
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 8 10 13 287  7  -18.6  0.220 -9.000 -9.000 -999.  248.    51.7  0.1750  0.72  0.55   2.60  245.0  15.0  279.2  2.0   0  0.00  53.  1016.   2 NAD-SFC NoSubs
 8 10 13 287  8   31.0  0.180  0.411  0.007   81.  184.   -17.1  0.1950  0.72  0.30   1.50  230.0  15.0  280.6  2.0   0  0.00  49.  1016.   2 NAD-SFC NoSubs
 8 10 13 287  9   82.1  0.198  0.794  0.006  221.  212.    -8.6  0.1900  0.72  0.23   1.50  208.0  15.0  283.9  2.0   0  0.00  38.  1016.   2 NAD-SFC NoSubs
 8 10 13 287 10  121.8  0.161  1.139  0.006  440.  155.    -3.1  0.1950  0.72  0.21   1.00  234.0  15.0  286.2  2.0   0  0.00  34.  1015.   2 NAD-SFC NoSubs
 8 10 13 287 11  147.8  0.106  1.391  0.006  660.   83.    -1.0  0.1750  0.72  0.20   0.50  265.0  15.0  288.2  2.0   0  0.00  31.  1015.   2 NAD-SFC NoSubs
 8 10 13 287 12  159.1  0.118  1.527  0.007  810.   97.    -1.0  0.2720  0.72  0.20   0.50  302.0  15.0  290.1  2.0   0  0.00  29.  1014.   2 NAD-SFC NoSubs
 8 10 13 287 13  155.5  0.120  1.590  0.008  935.   99.    -1.0  0.2930  0.72  0.20   0.50  343.0  15.0  291.6  2.0   0  0.00  27.  1013.   2 NAD-SFC NoSubs
 8 10 13 287 14  136.9  0.230  1.571  0.008 1024.  265.    -8.0  0.2930  0.72  0.20   1.50  355.0  15.0  292.6  2.0   0  0.00  26.  1012.   2 NAD-SFC NoSubs
 8 10 13 287 15  103.8 -9.000 -9.000 -9.000 1082. -999. -99999.0  0.2235  0.72  0.22   0.00    0.0  15.0  293.0  2.0   0  0.00  27.  1012.   2 NAD-SFC NoSubs
 8 10 13 287 16   57.7  0.311  1.212  0.009 1112.  417.   -47.2  0.2940  0.72  0.26   2.60   10.0  15.0  292.9  2.0   0  0.00  29.  1012.   2 NAD-SFC NoSubs
 8 10 13 287 17    4.2  0.308  0.508  0.009 1113.  411.  -624.5  0.2470  0.72  0.41   3.10   42.0  15.0  292.0  2.0   0  0.00  38.  1012.   2 NAD-SFC NoSubs
 8 10 13 287 18  -34.6  0.322 -9.000 -9.000 -999.  439.    87.3  0.2090  0.72  1.00   3.60   69.0  15.0  290.5  2.0   0  0.00  42.  1012.   2 NAD-SFC NoSubs
 8 10 13 287 19  -22.5  0.230 -9.000 -9.000 -999.  268.    48.5  0.2130  0.72  1.00   2.60   92.0  15.0  289.2  2.0   0  0.00  45.  1012.   2 NAD-SFC NoSubs
 8 10 13 287 20   -3.5  0.094 -9.000 -9.000 -999.   85.    21.8  0.1810  0.72  1.00   1.00  164.0  15.0  287.8  2.0   0  0.00  51.  1012.   2 NAD-SFC NoSubs
 8 10 13 287 21   -7.0  0.126 -9.000 -9.000 -999.  107.    25.5  0.1950  0.72  1.00   1.50  224.0  15.0  286.8  2.0   0  0.00  55.  1012.   2 NAD-SFC NoSubs
 8 10 13 287 22   -1.5  0.081 -9.000 -9.000 -999.   55.    31.4  0.1950  0.72  1.00   0.50  219.0  15.0  285.8  2.0   0  0.00  56.  1013.   2 NAD-SFC NoSubs
 8 10 13 287 23   -1.6  0.082 -9.000 -9.000 -999.   56.    31.6  0.2130  0.72  1.00   0.50   91.0  15.0  284.9  2.0   0  0.00  57.  1013.   2 NAD-SFC NoSubs
 8 10 13 287 24   -1.5  0.082 -9.000 -9.000 -999.   56.    31.6  0.2090  0.72  1.00   0.50   84.0  15.0  284.1  2.0   0  0.00  58.  1013.   2 NAD-SFC NoSubs
 8 10 14 288  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  283.6  2.0   0  0.00  59.  1012.   2 NAD-SFC NoSubs
 8 10 14 288  2   -3.6  0.096 -9.000 -9.000 -999.   71.    22.0  0.1900  0.72  1.00   1.00  192.0  15.0  283.2  2.0   0  0.00  57.  1012.   2 NAD-SFC NoSubs
 8 10 14 288  3   -3.5  0.095 -9.000 -9.000 -999.   70.    21.8  0.1810  0.72  1.00   1.00  171.0  15.0  283.2  2.0   0  0.00  54.  1012.   2 NAD-SFC NoSubs
 8 10 14 288  4   -1.5  0.080 -9.000 -9.000 -999.   55.    31.3  0.1810  0.72  1.00   0.50  154.0  15.0  283.2  2.0   0  0.00  52.  1012.   2 NAD-SFC NoSubs
 8 10 14 288  5   -1.6  0.083 -9.000 -9.000 -999.   58.    32.0  0.2470  0.72  1.00   0.50   31.0  15.0  282.6  2.0   0  0.00  54.  1012.   2 NAD-SFC NoSubs
 8 10 14 288  6  -17.0  0.199 -9.000 -9.000 -999.  214.    42.2  0.2930  0.72  1.00   2.10  347.0  15.0  281.6  2.0   0  0.00  59.  1012.   2 NAD-SFC NoSubs
 8 10 14 288  7  -15.1  0.202 -9.000 -9.000 -999.  217.    48.9  0.2930  0.72  0.56   2.10  335.0  15.0  281.2  2.0   0  0.00  61.  1012.   2 NAD-SFC NoSubs
 8 10 14 288  8   30.3  0.196  0.373  0.005   62.  208.   -22.4  0.2930  0.72  0.31   1.50  331.0  15.0  282.5  2.0   0  0.00  56.  1012.   2 NAD-SFC NoSubs
 8 10 14 288  9   81.6  0.164  0.739  0.006  178.  160.    -4.9  0.2720  0.72  0.23   1.00  318.0  15.0  286.2  2.0   0  0.00  45.  1012.   2 NAD-SFC NoSubs
 8 10 14 288 10  121.4 -9.000 -9.000 -9.000  467. -999. -99999.0  0.2235  0.72  0.21   0.00    0.0  15.0  288.8  2.0   0  0.00  39.  1011.   2 NAD-SFC NoSubs
 8 10 14 288 11  147.6 -9.000 -9.000 -9.000  667. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  291.2  2.0   0  0.00  33.  1010.   2 NAD-SFC NoSubs
 8 10 14 288 12  159.0 -9.000 -9.000 -9.000  772. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  293.0  2.0   0  0.00  30.  1009.   2 NAD-SFC NoSubs
 8 10 14 288 13  155.3 -9.000 -9.000 -9.000  864. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  294.4  2.0   0  0.00  29.  1008.   2 NAD-SFC NoSubs
 8 10 14 288 14  136.7 -9.000 -9.000 -9.000  937. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  295.4  2.0   0  0.00  28.  1008.   2 NAD-SFC NoSubs
 8 10 14 288 15  103.7  0.109  1.419  0.009  990.   86.    -1.1  0.2470  0.72  0.22   0.50   44.0  15.0  296.0  2.0   0  0.00  28.  1007.   2 NAD-SFC NoSubs
 8 10 14 288 16   57.6  0.201  1.178  0.009 1019.  217.   -12.7  0.2470  0.72  0.26   1.50   52.0  15.0  295.9  2.0   0  0.00  30.  1007.   2 NAD-SFC NoSubs
 8 10 14 288 17    4.3  0.262  0.498  0.009 1020.  321.  -371.1  0.2470  0.72  0.41   2.60   59.0  15.0  295.2  2.0   0  0.00  35.  1007.   2 NAD-SFC NoSubs
 8 10 14 288 18  -23.8  0.239 -9.000 -9.000 -999.  281.    51.8  0.2470  0.72  1.00   2.60   59.0  15.0  294.0  2.0   0  0.00  38.  1007.   2 NAD-SFC NoSubs
 8 10 14 288 19   -3.6  0.096 -9.000 -9.000 -999.   90.    22.4  0.2130  0.72  1.00   1.00  104.0  15.0  292.2  2.0   0  0.00  43.  1007.   2 NAD-SFC NoSubs
 8 10 14 288 20   -3.4  0.094 -9.000 -9.000 -999.   69.    21.8  0.1810  0.72  1.00   1.00  178.0  15.0  290.8  2.0   0  0.00  49.  1006.   2 NAD-SFC NoSubs
 8 10 14 288 21   -3.5  0.095 -9.000 -9.000 -999.   70.    22.0  0.1900  0.72  1.00   1.00  190.0  15.0  289.8  2.0   0  0.00  53.  1006.   2 NAD-SFC NoSubs
 8 10 14 288 22   -1.5  0.081 -9.000 -9.000 -999.   56.    31.5  0.2130  0.72  1.00   0.50   92.0  15.0  288.6  2.0   0  0.00  57.  1006.   2 NAD-SFC NoSubs
 8 10 14 288 23   -1.6  0.083 -9.000 -9.000 -999.   57.    31.8  0.2470  0.72  1.00   0.50   53.0  15.0  287.8  2.0   0  0.00  60.  1006.   2 NAD-SFC NoSubs
 8 10 14 288 24   -1.6  0.083 -9.000 -9.000 -999.   57.    31.9  0.2470  0.72  1.00   0.50   36.0  15.0  286.8  2.0   0  0.00  63.  1006.   2 NAD-SFC NoSubs
 8 10 15 289  1   -1.5  0.081 -9.000 -9.000 -999.   56.    31.5  0.2090  0.72  1.00   0.50   63.0  15.0  286.1  2.0   0  0.00  65.  1006.   2 NAD-SFC NoSubs
 8 10 15 289  2   -1.5  0.081 -9.000 -9.000 -999.   56.    31.6  0.2090  0.72  1.00   0.50   63.0  15.0  285.6  2.0   0  0.00  66.  1006.   2 NAD-SFC NoSubs
 8 10 15 289  3   -1.6  0.083 -9.000 -9.000 -999.   57.    31.9  0.2470  0.72  1.00   0.50   43.0  15.0  285.2  2.0   0  0.00  66.  1006.   2 NAD-SFC NoSubs
 8 10 15 289  4   -1.6  0.083 -9.000 -9.000 -999.   57.    31.9  0.2470  0.72  1.00   0.50   34.0  15.0  284.8  2.0   0  0.00  67.  1006.   2 NAD-SFC NoSubs
 8 10 15 289  5   -4.1  0.103 -9.000 -9.000 -999.   79.    23.6  0.2930  0.72  1.00   1.00  347.0  15.0  284.4  2.0   0  0.00  68.  1006.   2 NAD-SFC NoSubs
 8 10 15 289  6   -4.1  0.103 -9.000 -9.000 -999.   79.    23.6  0.2930  0.72  1.00   1.00  340.0  15.0  284.0  2.0   0  0.00  69.  1007.   2 NAD-SFC NoSubs
 8 10 15 289  7   -3.5  0.098 -9.000 -9.000 -999.   73.    24.1  0.2930  0.72  0.57   1.00  330.0  15.0  283.8  2.0   0  0.00  71.  1007.   2 NAD-SFC NoSubs
 8 10 15 289  8   29.8  0.094  0.374  0.017   63.   69.    -2.5  0.2720  0.72  0.31   0.50  314.0  15.0  284.5  2.0   0  0.00  68.  1007.   2 NAD-SFC NoSubs
 8 10 15 289  9   81.2  0.156  0.728  0.013  171.  148.    -4.2  0.2160  0.72  0.23   1.00  298.0  15.0  288.5  2.0   0  0.00  52.  1007.   2 NAD-SFC NoSubs
 8 10 15 289 10  121.0 -9.000 -9.000 -9.000  308. -999. -99999.0  0.2235  0.72  0.21   0.00    0.0  15.0  290.8  2.0   0  0.00  49.  1007.   2 NAD-SFC NoSubs
 8 10 15 289 11  147.2 -9.000 -9.000 -9.000  436. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  293.2  2.0   0  0.00  43.  1006.   2 NAD-SFC NoSubs
 8 10 15 289 12  158.8 -9.000 -9.000 -9.000  552. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  295.5  2.0   0  0.00  36.  1005.   2 NAD-SFC NoSubs
 8 10 15 289 13  155.2  0.120  1.409  0.008  646.  100.    -1.0  0.2930  0.72  0.20   0.50  336.0  15.0  297.0  2.0   0  0.00  32.  1004.   2 NAD-SFC NoSubs
 8 10 15 289 14  136.6 -9.000 -9.000 -9.000  738. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  297.9  2.0   0  0.00  31.  1004.   2 NAD-SFC NoSubs
 8 10 15 289 15  103.4  0.224  1.324  0.006  803.  254.    -9.7  0.2940  0.72  0.22   1.50   21.0  15.0  298.2  2.0   0  0.00  32.  1003.   2 NAD-SFC NoSubs
 8 10 15 289 16   57.2  0.265  1.102  0.006  837.  328.   -29.1  0.2940  0.72  0.26   2.10   26.0  15.0  298.0  2.0   0  0.00  39.  1003.   2 NAD-SFC NoSubs
 8 10 15 289 17    4.1  0.272  0.458  0.006  838.  341.  -442.6  0.2940  0.72  0.42   2.60   29.0  15.0  297.2  2.0   0  0.00  43.  1003.   2 NAD-SFC NoSubs
 8 10 15 289 18   -7.6  0.133 -9.000 -9.000 -999.  130.    27.9  0.2470  0.72  1.00   1.50   33.0  15.0  295.8  2.0   0  0.00  47.  1004.   2 NAD-SFC NoSubs
 8 10 15 289 19   -1.4  0.079 -9.000 -9.000 -999.   54.    30.8  0.1750  0.72  1.00   0.50  260.0  15.0  294.1  2.0   0  0.00  53.  1004.   2 NAD-SFC NoSubs
 8 10 15 289 20   -3.4  0.093 -9.000 -9.000 -999.   69.    21.7  0.1750  0.72  1.00   1.00  244.0  15.0  292.5  2.0   0  0.00  59.  1004.   2 NAD-SFC NoSubs
 8 10 15 289 21   -1.4  0.079 -9.000 -9.000 -999.   53.    30.9  0.1750  0.72  1.00   0.50  258.0  15.0  291.2  2.0   0  0.00  63.  1004.   2 NAD-SFC NoSubs
 8 10 15 289 22   -1.7  0.084 -9.000 -9.000 -999.   59.    32.0  0.2930  0.72  1.00   0.50  353.0  15.0  290.2  2.0   0  0.00  66.  1005.   2 NAD-SFC NoSubs
 8 10 15 289 23   -1.6  0.083 -9.000 -9.000 -999.   57.    31.8  0.2470  0.72  1.00   0.50   42.0  15.0  289.1  2.0   0  0.00  69.  1005.   2 NAD-SFC NoSubs
 8 10 15 289 24   -3.8  0.099 -9.000 -9.000 -999.   75.    22.9  0.2470  0.72  1.00   1.00   55.0  15.0  288.2  2.0   0  0.00  73.  1005.   2 NAD-SFC NoSubs
 8 10 16 290  1   -1.7  0.084 -9.000 -9.000 -999.   59.    32.1  0.2930  0.72  1.00   0.50  349.0  15.0  287.8  2.0   0  0.00  74.  1006.   2 NAD-SFC NoSubs
 8 10 16 290  2   -3.7  0.097 -9.000 -9.000 -999.   73.    22.4  0.2160  0.72  1.00   1.00  279.0  15.0  287.2  2.0   0  0.00  75.  1006.   2 NAD-SFC NoSubs
 8 10 16 290  3   -6.7  0.123 -9.000 -9.000 -999.  103.    24.6  0.1750  0.72  1.00   1.50  268.0  15.0  286.8  2.0   0  0.00  75.  1006.   2 NAD-SFC NoSubs
 8 10 16 290  4   -7.3  0.129 -9.000 -9.000 -999.  111.    26.3  0.2160  0.72  1.00   1.50  276.0  15.0  286.6  2.0   0  0.00  75.  1006.   2 NAD-SFC NoSubs
 8 10 16 290  5   -3.7  0.097 -9.000 -9.000 -999.   73.    22.4  0.2160  0.72  1.00   1.00  289.0  15.0  286.4  2.0   0  0.00  76.  1006.   2 NAD-SFC NoSubs
 8 10 16 290  6   -1.5  0.082 -9.000 -9.000 -999.   56.    31.6  0.2160  0.72  1.00   0.50  278.0  15.0  286.1  2.0   0  0.00  77.  1007.   2 NAD-SFC NoSubs
 8 10 16 290  7   -1.2  0.073 -9.000 -9.000 -999.   47.    28.9  0.1750  0.72  0.57   0.50  250.0  15.0  285.8  2.0   0  0.00  77.  1008.   2 NAD-SFC NoSubs
 8 10 16 290  8   29.2  0.136  0.410  0.015   84.  120.    -7.7  0.1950  0.72  0.31   1.00  237.0  15.0  286.2  2.0   0  0.00  75.  1008.   2 NAD-SFC NoSubs
 8 10 16 290  9   80.3  0.156  0.763  0.013  199.  148.    -4.2  0.2160  0.72  0.23   1.00  284.0  15.0  289.1  2.0   0  0.00  61.  1008.   2 NAD-SFC NoSubs
 8 10 16 290 10  120.1 -9.000 -9.000 -9.000  341. -999. -99999.0  0.2235  0.72  0.21   0.00    0.0  15.0  291.4  2.0   0  0.00  54.  1008.   2 NAD-SFC NoSubs
 8 10 16 290 11  146.3 -9.000 -9.000 -9.000  457. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  294.0  2.0   0  0.00  47.  1008.   2 NAD-SFC NoSubs
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 8 10 16 290 12  157.8 -9.000 -9.000 -9.000  555. -999. -99999.0 0.2235 0.72 0.20 0.00   0.0 15.0 296.2 2.0 0 0.00 39. 1006. 2 NAD-SFC NoSubs
 8 10 16 290 13  154.2 -9.000 -9.000 -9.000  636. -999. -99999.0 0.2235 0.72 0.20 0.00   0.0 15.0 297.8 2.0 0 0.00 35. 1006. 2 NAD-SFC NoSubs
 8 10 16 290 14  135.7  0.118  1.391  0.009  711.  97.     -1.1 0.2940 0.72 0.20 0.50  12.0 15.0 298.9 2.0 0 0.00 33. 1005. 2 NAD-SFC NoSubs
 8 10 16 290 15  102.5  0.172  1.300  0.009  767. 171.     -4.4 0.2940 0.72 0.22 1.00  27.0 15.0 299.2 2.0 0 0.00 34. 1004. 2 NAD-SFC NoSubs
 8 10 16 290 16   56.8  0.209  1.081  0.009  797. 229.    -14.4 0.2940 0.72 0.27 1.50   7.0 15.0 299.9 2.0 0 0.00 34. 1004. 2 NAD-SFC NoSubs
 8 10 16 290 17    3.9  0.272  0.445  0.009  798. 341.   -458.1 0.2940 0.72 0.42 2.60  24.0 15.0 299.2 2.0 0 0.00 40. 1004. 2 NAD-SFC NoSubs
 8 10 16 290 18  -25.6  0.252 -9.000 -9.000 -999. 304.     55.9 0.2940 0.72 1.00 2.60  17.0 15.0 297.8 2.0 0 0.00 45. 1005. 2 NAD-SFC NoSubs
 8 10 16 290 19   -8.2  0.140 -9.000 -9.000 -999. 132.     29.8 0.2940 0.72 1.00 1.50  12.0 15.0 296.4 2.0 0 0.00 50. 1005. 2 NAD-SFC NoSubs
 8 10 16 290 20   -3.9  0.100 -9.000 -9.000 -999.  77.     23.3 0.2720 0.72 1.00 1.00 320.0 15.0 295.0 2.0 0 0.00 56. 1005. 2 NAD-SFC NoSubs
 8 10 16 290 21   -1.5  0.081 -9.000 -9.000 -999.  55.     31.3 0.2160 0.72 1.00 0.50 298.0 15.0 293.8 2.0 0 0.00 61. 1005. 2 NAD-SFC NoSubs
 8 10 16 290 22   -1.6  0.083 -9.000 -9.000 -999.  57.     31.8 0.2720 0.72 1.00 0.50 329.0 15.0 293.0 2.0 0 0.00 65. 1006. 2 NAD-SFC NoSubs
 8 10 16 290 23   -1.7  0.084 -9.000 -9.000 -999.  58.     32.0 0.2940 0.72 1.00 0.50  17.0 15.0 292.2 2.0 0 0.00 67. 1006. 2 NAD-SFC NoSubs
 8 10 16 290 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 291.5 2.0 0 0.00 69. 1006. 2 NAD-SFC NoSubs
 8 10 17 291  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 290.9 2.0 0 0.00 71. 1006. 2 NAD-SFC NoSubs
 8 10 17 291  2   -1.7  0.084 -9.000 -9.000 -999.  59.     32.0 0.2930 0.72 1.00 0.50 333.0 15.0 290.4 2.0 0 0.00 72. 1006. 2 NAD-SFC NoSubs
 8 10 17 291  3   -1.6  0.083 -9.000 -9.000 -999.  58.     31.9 0.2720 0.72 1.00 0.50 324.0 15.0 290.1 2.0 0 0.00 73. 1006. 2 NAD-SFC NoSubs
 8 10 17 291  4   -3.9  0.101 -9.000 -9.000 -999.  77.     23.3 0.2720 0.72 1.00 1.00 311.0 15.0 289.8 2.0 0 0.00 73. 1006. 2 NAD-SFC NoSubs
 8 10 17 291  5   -4.0  0.101 -9.000 -9.000 -999.  77.     23.3 0.2720 0.72 1.00 1.00 318.0 15.0 289.2 2.0 0 0.00 74. 1006. 2 NAD-SFC NoSubs
 8 10 17 291  6   -4.1  0.102 -9.000 -9.000 -999.  79.     23.6 0.2930 0.72 1.00 1.00 333.0 15.0 288.9 2.0 0 0.00 75. 1007. 2 NAD-SFC NoSubs
 8 10 17 291  7   -3.5  0.098 -9.000 -9.000 -999.  74.     24.0 0.2930 0.72 0.58 1.00 342.0 15.0 288.5 2.0 0 0.00 76. 1007. 2 NAD-SFC NoSubs
 8 10 17 291  8   29.0  0.148  0.378  0.010   67. 137.    -10.0 0.2930 0.72 0.31 1.00 355.0 15.0 289.0 2.0 0 0.00 74. 1007. 2 NAD-SFC NoSubs
 8 10 17 291  9   80.4  0.217  0.745  0.008  185. 243.    -11.4 0.2930 0.72 0.23 1.50 332.0 15.0 292.5 2.0 0 0.00 57. 1008. 2 NAD-SFC NoSubs
 8 10 17 291 10  120.0  0.223  1.033  0.007  330. 253.     -8.3 0.2720 0.72 0.21 1.50 317.0 15.0 294.2 2.0 0 0.00 53. 1008. 2 NAD-SFC NoSubs
 8 10 17 291 11  146.2  0.228  1.280  0.005  516. 261.     -7.3 0.2720 0.72 0.20 1.50 323.0 15.0 296.5 2.0 0 0.00 48. 1007. 2 NAD-SFC NoSubs
 8 10 17 291 12  157.7  0.181  1.459  0.005  708. 186.     -3.4 0.2930 0.72 0.20 1.00 332.0 15.0 298.4 2.0 0 0.00 43. 1006. 2 NAD-SFC NoSubs
 8 10 17 291 13  154.1  0.181  1.551  0.005  869. 185.     -3.4 0.2930 0.72 0.20 1.00 338.0 15.0 299.9 2.0 0 0.00 39. 1006. 2 NAD-SFC NoSubs
 8 10 17 291 14  135.6 -9.000 -9.000 -9.000  995. -999. -99999.0 0.2235 0.72 0.20 0.00   0.0 15.0 301.0 2.0 0 0.00 36. 1005. 2 NAD-SFC NoSubs
 8 10 17 291 15  102.4 -9.000 -9.000 -9.000 1096. -999. -99999.0 0.2235 0.72 0.22 0.00   0.0 15.0 301.5 2.0 0 0.00 36. 1004. 2 NAD-SFC NoSubs
 8 10 17 291 16   56.3  0.265  1.217  0.005 1147.  327.    -29.5 0.2930 0.72 0.27 2.10 346.0 15.0 301.4 2.0 0 0.00 40. 1004. 2 NAD-SFC NoSubs
 8 10 17 291 17    3.6  0.271  0.486  0.005 1147.  339.   -500.7 0.2930 0.72 0.43 2.60 338.0 15.0 300.6 2.0 0 0.00 45. 1004. 2 NAD-SFC NoSubs
 8 10 17 291 18  -25.5  0.252 -9.000 -9.000 -999. 303.     56.0 0.2930 0.72 1.00 2.60 347.0 15.0 299.2 2.0 0 0.00 50. 1004. 2 NAD-SFC NoSubs
 8 10 17 291 19  -31.5  0.303 -9.000 -9.000 -999. 401.     79.2 0.2930 0.72 1.00 3.10 345.0 15.0 297.9 2.0 0 0.00 54. 1004. 2 NAD-SFC NoSubs
 8 10 17 291 20  -46.7  0.448 -9.000 -9.000 -999. 719.    172.0 0.2720 0.72 1.00 4.60 321.0 15.0 297.0 2.0 0 0.00 56. 1005. 2 NAD-SFC NoSubs
 8 10 17 291 21  -52.3  0.498 -9.000 -9.000 -999. 843.    212.1 0.2720 0.72 1.00 5.10 325.0 15.0 295.4 2.0 0 0.00 62. 1005. 2 NAD-SFC NoSubs
 8 10 17 291 22  -47.2  0.448 -9.000 -9.000 -999. 721.    170.0 0.2720 0.72 1.00 4.60 326.0 15.0 293.8 2.0 0 0.00 69. 1005. 2 NAD-SFC NoSubs
 8 10 17 291 23  -42.9  0.406 -9.000 -9.000 -999. 622.    139.4 0.2930 0.72 1.00 4.10 336.0 15.0 292.9 2.0 0 0.00 72. 1005. 2 NAD-SFC NoSubs
 8 10 17 291 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 292.2 2.0 0 0.00 74. 1005. 3 NAD-SFC NoSubs
 8 10 18 292  1  -42.1  0.406 -9.000 -9.000 -999. 622.    142.8 0.2940 0.72 1.00 4.10  20.0 15.0 291.6 2.0 0 0.00 76. 1005. 3 NAD-SFC NoSubs
 8 10 18 292  2  -40.1  0.386 -9.000 -9.000 -999. 577.    129.0 0.2470 0.72 1.00 4.10  34.0 15.0 291.1 2.0 0 0.00 77. 1005. 3 NAD-SFC NoSubs
 8 10 18 292  3  -42.2  0.406 -9.000 -9.000 -999. 621.    142.4 0.2940 0.72 1.00 4.10  18.0 15.0 290.8 2.0 0 0.00 79. 1005. 3 NAD-SFC NoSubs
 8 10 18 292  4  -42.3  0.406 -9.000 -9.000 -999. 622.    142.2 0.2940 0.72 1.00 4.10  18.0 15.0 290.4 2.0 0 0.00 79. 1006. 3 NAD-SFC NoSubs
 8 10 18 292  5  -37.0  0.355 -9.000 -9.000 -999. 509.    108.4 0.2940 0.72 1.00 3.60  14.0 15.0 290.2 2.0 0 0.00 78. 1006. 3 NAD-SFC NoSubs
 8 10 18 292  6  -31.6  0.303 -9.000 -9.000 -999. 402.     79.1 0.2930 0.72 1.00 3.10 358.0 15.0 290.1 2.0 0 0.00 78. 1006. 3 NAD-SFC NoSubs
 8 10 18 292  7  -21.3  0.254 -9.000 -9.000 -999. 308.     68.6 0.2940 0.72 0.59 2.60   4.0 15.0 289.9 2.0 0 0.00 78. 1007. 3 NAD-SFC NoSubs
 8 10 18 292  8   28.4 -9.000 -9.000 -9.000   93. -999. -99999.0 0.2235 0.72 0.32 0.00   0.0 15.0 290.2 2.0 0 0.00 77. 1007. 2 NAD-SFC NoSubs
 8 10 18 292  9   79.3  0.166  0.787  0.008  221. 163.     -5.2 0.2930 0.72 0.23 1.00 344.0 15.0 292.8 2.0 0 0.00 64. 1007. 2 NAD-SFC NoSubs
 8 10 18 292 10  119.0  0.113  1.060  0.006  360.  92.     -1.1 0.2720 0.72 0.21 0.50 316.0 15.0 294.5 2.0 0 0.00 58. 1007. 2 NAD-SFC NoSubs
 8 10 18 292 11  144.9 -9.000 -9.000 -9.000  550. -999. -99999.0 0.2235 0.72 0.20 0.00   0.0 15.0 296.2 2.0 0 0.00 52. 1007. 2 NAD-SFC NoSubs
 8 10 18 292 12  155.9  0.118  1.475  0.005  739.  97.     -1.0 0.2720 0.72 0.20 0.50 314.0 15.0 297.4 2.0 0 0.00 48. 1006. 2 NAD-SFC NoSubs
 8 10 18 292 13  151.9  0.117  1.568  0.005  912.  97.     -1.0 0.2720 0.72 0.20 0.50 321.0 15.0 298.2 2.0 0 0.00 45. 1006. 2 NAD-SFC NoSubs
 8 10 18 292 14  133.1  0.178  1.573  0.005 1049. 180.     -3.8 0.2930 0.72 0.20 1.00 333.0 15.0 299.0 2.0 0 0.00 43. 1005. 2 NAD-SFC NoSubs
 8 10 18 292 15   99.8  0.280  1.470  0.005 1143. 355.    -19.6 0.2930 0.72 0.22 2.10 338.0 15.0 299.2 2.0 0 0.00 42. 1005. 2 NAD-SFC NoSubs
 8 10 18 292 16   53.7  0.310  1.212  0.005 1190. 413.    -49.5 0.2930 0.72 0.27 2.60 348.0 15.0 299.2 2.0 0 0.00 45. 1005. 2 NAD-SFC NoSubs
 8 10 18 292 17    3.2 -9.000 -9.000 -9.000 1191. -999. -99999.0 0.2235 0.72 0.44 0.00   0.0 15.0 298.5 2.0 0 0.00 52. 1004. 3 NAD-SFC NoSubs
 8 10 18 292 18  -30.8  0.304 -9.000 -9.000 -999. 402.     81.4 0.2940 0.72 1.00 3.10  11.0 15.0 297.4 2.0 0 0.00 55. 1005. 3 NAD-SFC NoSubs
 8 10 18 292 19  -15.7  0.196 -9.000 -9.000 -999. 214.     42.8 0.2720 0.72 1.00 2.10 312.0 15.0 296.4 2.0 0 0.00 59. 1005. 3 NAD-SFC NoSubs
 8 10 18 292 20  -48.2  0.468 -9.000 -9.000 -999. 768.    190.6 0.2160 0.72 1.00 5.10 284.0 15.0 293.8 2.0 0 0.00 69. 1006. 3 NAD-SFC NoSubs
 8 10 18 292 21  -36.6  0.353 -9.000 -9.000 -999. 513.    107.8 0.1750 0.72 1.00 4.10 269.0 15.0 291.6 2.0 0 0.00 77. 1006. 3 NAD-SFC NoSubs
 8 10 18 292 22  -33.9  0.325 -9.000 -9.000 -999. 446.     91.3 0.2160 0.72 1.00 3.60 273.0 15.0 290.8 2.0 0 0.00 79. 1007. 3 NAD-SFC NoSubs
 8 10 18 292 23  -29.0  0.278 -9.000 -9.000 -999. 353.     66.6 0.2160 0.72 1.00 3.10 292.0 15.0 290.1 2.0 0 0.00 80. 1007. 3 NAD-SFC NoSubs
 8 10 18 292 24  -24.8  0.246 -9.000 -9.000 -999. 293.     54.1 0.2720 0.72 1.00 2.60 306.0 15.0 289.6 2.0 0 0.00 81. 1007. 3 NAD-SFC NoSubs
 8 10 19 293  1  -15.6  0.196 -9.000 -9.000 -999. 209.     43.2 0.2720 0.72 1.00 2.10 316.0 15.0 289.4 2.0 0 0.00 82. 1007. 4 NAD-SFC NoSubs
 8 10 19 293  2  -15.6  0.196 -9.000 -9.000 -999. 208.     43.1 0.2720 0.72 1.00 2.10 320.0 15.0 289.1 2.0 0 0.00 83. 1007. 4 NAD-SFC NoSubs
 8 10 19 293  3   -7.8  0.137 -9.000 -9.000 -999. 122.     29.5 0.2720 0.72 1.00 1.50 320.0 15.0 288.8 2.0 0 0.00 85. 1007. 4 NAD-SFC NoSubs
 8 10 19 293  4   -8.0  0.137 -9.000 -9.000 -999. 121.     28.9 0.2720 0.72 1.00 1.50 316.0 15.0 288.2 2.0 0 0.00 87. 1007. 3 NAD-SFC NoSubs
 8 10 19 293  5   -4.0  0.102 -9.000 -9.000 -999.  78.     23.6 0.2930 0.72 1.00 1.00 334.0 15.0 287.8 2.0 0 0.00 90. 1007. 3 NAD-SFC NoSubs
 8 10 19 293  6   -1.6  0.084 -9.000 -9.000 -999.  58.     31.9 0.2930 0.72 1.00 0.50 330.0 15.0 287.2 2.0 0 0.00 92. 1008. 3 NAD-SFC NoSubs
 8 10 19 293  7   -1.4  0.077 -9.000 -9.000 -999.  51.     30.0 0.2720 0.72 0.59 0.50 325.0 15.0 286.6 2.0 0 0.00 96. 1008. 3 NAD-SFC NoSubs
 8 10 19 293  8   27.8  0.194  0.551  0.009  216. 206.    -23.8 0.2930 0.72 0.32 1.50 340.0 15.0 286.6 2.0 0 0.00 94. 1008. 3 NAD-SFC NoSubs
 8 10 19 293  9   77.5  0.166  0.878  0.009  314. 162.     -5.3 0.2940 0.72 0.24 1.00  14.0 15.0 287.5 2.0 0 0.00 89. 1008. 3 NAD-SFC NoSubs
 8 10 19 293 10  116.5 -9.000 -9.000 -9.000  437. -999. -99999.0 0.2235 0.72 0.21 0.00   0.0 15.0 289.2 2.0 0 0.00 81. 1008. 3 NAD-SFC NoSubs
 8 10 19 293 11  142.0 -9.000 -9.000 -9.000  584. -999. -99999.0 0.2235 0.72 0.20 0.00   0.0 15.0 291.1 2.0 0 0.00 74. 1007. 3 NAD-SFC NoSubs
 8 10 19 293 12  152.6  0.118  1.446  0.007  711.  97.     -1.0 0.2720 0.72 0.20 0.50 316.0 15.0 292.6 2.0 0 0.00 69. 1006. 2 NAD-SFC NoSubs
 8 10 19 293 13  148.7  0.177  1.503  0.007  820. 179.     -3.4 0.2720 0.72 0.20 1.00 329.0 15.0 294.0 2.0 0 0.00 63. 1005. 2 NAD-SFC NoSubs
 8 10 19 293 14  129.9  0.229  1.485  0.007  905. 263.     -8.3 0.2930 0.72 0.20 1.50 334.0 15.0 295.0 2.0 0 0.00 60. 1005. 2 NAD-SFC NoSubs
 8 10 19 293 15   96.6  0.279  1.374  0.007  963. 353.    -20.1 0.2930 0.72 0.22 2.10 344.0 15.0 295.4 2.0 0 0.00 58. 1004. 2 NAD-SFC NoSubs
 8 10 19 293 16   50.6  0.308  1.120  0.007  994. 411.    -51.8 0.2930 0.72 0.27 2.60 352.0 15.0 295.5 2.0 0 0.00 59. 1004. 2 NAD-SFC NoSubs
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 8 10 19 293 17   17.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  0.44  0.00   0.0  15.0 295.2  2.0   0  0.00  64. 1004.   2 NAD-SFC NoSubs
 8 10 19 293 18  -16.5  0.200 -9.000 -9.000 -999.  215.     43.4 0.2940  0.72  1.00  2.10  11.0  15.0 294.2  2.0   0  0.00  68. 1005.   2 NAD-SFC NoSubs
 8 10 19 293 19   -8.2  0.140 -9.000 -9.000 -999.  126.     30.0 0.2940  0.72  1.00  1.50  18.0  15.0 293.4  2.0   0  0.00  71. 1005.   3 NAD-SFC NoSubs
 8 10 19 293 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 292.4  2.0   0  0.00  76. 1006.   3 NAD-SFC NoSubs
 8 10 19 293 21   -1.5  0.080 -9.000 -9.000 -999.   54.     31.1 0.2160  0.72  1.00  0.50 286.0  15.0 291.5  2.0   0  0.00  81. 1006.   3 NAD-SFC NoSubs
 8 10 19 293 22   -3.9  0.100 -9.000 -9.000 -999.   76.     23.3 0.2720  0.72  1.00  1.00 309.0  15.0 290.9  2.0   0  0.00  83. 1007.   3 NAD-SFC NoSubs
 8 10 19 293 23  -25.6  0.252 -9.000 -9.000 -999.  303.     55.8 0.2930  0.72  1.00  2.60 335.0  15.0 290.4  2.0   0  0.00  85. 1007.   3 NAD-SFC NoSubs
 8 10 19 293 24  -31.7  0.303 -9.000 -9.000 -999.  401.     79.0 0.2930  0.72  1.00  3.10 337.0  15.0 289.6  2.0   0  0.00  86. 1007.   3 NAD-SFC NoSubs
 8 10 20 294  1  -31.8  0.303 -9.000 -9.000 -999.  401.     78.8 0.2930  0.72  1.00  3.10 346.0  15.0 288.9  2.0   0  0.00  87. 1008.   3 NAD-SFC NoSubs
 8 10 20 294  2  -16.5  0.200 -9.000 -9.000 -999.  220.     43.4 0.2930  0.72  1.00  2.10 348.0  15.0 288.4  2.0   0  0.00  89. 1008.   3 NAD-SFC NoSubs
 8 10 20 294  3   -8.3  0.140 -9.000 -9.000 -999.  126.     29.7 0.2930  0.72  1.00  1.50 350.0  15.0 288.0  2.0   0  0.00  90. 1008.   3 NAD-SFC NoSubs
 8 10 20 294  4   -4.0  0.102 -9.000 -9.000 -999.   78.     23.6 0.2930  0.72  1.00  1.00 349.0  15.0 287.5  2.0   0  0.00  92. 1009.   3 NAD-SFC NoSubs
 8 10 20 294  5   -1.7  0.084 -9.000 -9.000 -999.   58.     31.9 0.2930  0.72  1.00  0.50 351.0  15.0 287.1  2.0   0  0.00  93. 1009.   3 NAD-SFC NoSubs
 8 10 20 294  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 286.8  2.0   0  0.00  95. 1010.   2 NAD-SFC NoSubs
 8 10 20 294  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  0.60  0.00   0.0  15.0 286.2  2.0   0  0.00  98. 1010.   2 NAD-SFC NoSubs
 8 10 20 294  8   25.1  0.146  0.483  0.007  161.  133.    -11.1 0.2940  0.72  0.32  1.00  21.0  15.0 286.1  2.0   0  0.00  98. 1010.   2 NAD-SFC NoSubs
 8 10 20 294  9   75.1  0.165  0.879  0.007  325.  161.     -5.4 0.2940  0.72  0.24  1.00  22.0  15.0 286.8  2.0   0  0.00  96. 1010.   2 NAD-SFC NoSubs
 8 10 20 294 10  114.1  0.110  1.155  0.006  486.   88.     -1.1 0.2470  0.72  0.21  0.50  31.0  15.0 287.5  2.0   0  0.00  92. 1010.   2 NAD-SFC NoSubs
 8 10 20 294 11  139.7 -9.000 -9.000 -9.000  638. -999. -99999.0 0.2235  0.72  0.20  0.00   0.0  15.0 289.1  2.0   0  0.00  84. 1010.   2 NAD-SFC NoSubs
 8 10 20 294 12  150.6 -9.000 -9.000 -9.000  785. -999. -99999.0 0.2235  0.72  0.20  0.00   0.0  15.0 290.8  2.0   0  0.00  76. 1009.   2 NAD-SFC NoSubs
 8 10 20 294 13  146.7 -9.000 -9.000 -9.000  908. -999. -99999.0 0.2235  0.72  0.20  0.00   0.0  15.0 292.2  2.0   0  0.00  69. 1009.   2 NAD-SFC NoSubs
 8 10 20 294 14  127.8  0.177  1.524  0.009  996.  179.     -3.9 0.2940  0.72  0.20  1.00   5.0  15.0 293.2  2.0   0  0.00  64. 1008.   2 NAD-SFC NoSubs
 8 10 20 294 15   94.5  0.221  1.401  0.009 1046.  250.    -10.3 0.2940  0.72  0.22  1.50   6.0  15.0 293.8  2.0   0  0.00  61. 1008.   2 NAD-SFC NoSubs
 8 10 20 294 16   48.6  0.261  1.131  0.009 1070.  321.    -33.0 0.2940  0.72  0.28  2.10  17.0  15.0 293.9  2.0   0  0.00  60. 1008.   2 NAD-SFC NoSubs
 8 10 20 294 17   -3.5  0.210 -9.000 -9.000 -999.  232.    240.3 0.2940  0.72  0.45  2.10  26.0  15.0 293.6  2.0   0  0.00  65. 1008.   2 NAD-SFC NoSubs
 8 10 20 294 18  -25.9  0.252 -9.000 -9.000 -999.  303.     55.3 0.2940  0.72  1.00  2.60  26.0  15.0 292.6  2.0   0  0.00  69. 1008.   2 NAD-SFC NoSubs
 8 10 20 294 19  -15.3  0.190 -9.000 -9.000 -999.  200.     40.2 0.2470  0.72  1.00  2.10  55.0  15.0 291.6  2.0   0  0.00  73. 1008.   2 NAD-SFC NoSubs
 8 10 20 294 20   -3.6  0.096 -9.000 -9.000 -999.   76.     22.3 0.2090  0.72  1.00  1.00  82.0  15.0 290.6  2.0   0  0.00  77. 1008.   2 NAD-SFC NoSubs
 8 10 20 294 21   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4 0.2130  0.72  1.00  0.50 102.0  15.0 289.8  2.0   0  0.00  82. 1008.   2 NAD-SFC NoSubs
 8 10 20 294 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 288.9  2.0   0  0.00  87. 1008.   2 NAD-SFC NoSubs
 8 10 20 294 23   -1.5  0.081 -9.000 -9.000 -999.   56.     31.5 0.2160  0.72  1.00  0.50 298.0  15.0 288.2  2.0   0  0.00  90. 1008.   2 NAD-SFC NoSubs
 8 10 20 294 24   -1.6  0.084 -9.000 -9.000 -999.   58.     32.0 0.2720  0.72  1.00  0.50 313.0  15.0 287.8  2.0   0  0.00  91. 1008.   2 NAD-SFC NoSubs
 8 10 21 295  1   -1.6  0.084 -9.000 -9.000 -999.   58.     32.0 0.2720  0.72  1.00  0.50 313.0  15.0 287.2  2.0   0  0.00  92. 1008.   2 NAD-SFC NoSubs
 8 10 21 295  2   -4.0  0.101 -9.000 -9.000 -999.   77.     23.3 0.2720  0.72  1.00  1.00 322.0  15.0 286.8  2.0   0  0.00  93. 1009.   2 NAD-SFC NoSubs
 8 10 21 295  3   -4.1  0.103 -9.000 -9.000 -999.   79.     23.6 0.2930  0.72  1.00  1.00 332.0  15.0 285.9  2.0   0  0.00  95. 1009.   2 NAD-SFC NoSubs
 8 10 21 295  4   -4.1  0.103 -9.000 -9.000 -999.   79.     23.6 0.2930  0.72  1.00  1.00 351.0  15.0 285.0  2.0   0  0.00  97. 1009.   2 NAD-SFC NoSubs
 8 10 21 295  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 284.8  2.0   0  0.00  98. 1009.   2 NAD-SFC NoSubs
 8 10 21 295  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 284.2  2.0   0  0.00  99. 1009.   2 NAD-SFC NoSubs
 8 10 21 295  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  0.61  0.00   0.0  15.0 283.8  2.0   0  0.00 100. 1010.   2 NAD-SFC NoSubs
 8 10 21 295  8   23.6 -9.000 -9.000 -9.000   85. -999. -99999.0 0.2235  0.72  0.32  0.00   0.0  15.0 283.9  2.0   0  0.00 100. 1010.   2 NAD-SFC NoSubs
 8 10 21 295  9   73.6 -9.000 -9.000 -9.000  251. -999. -99999.0 0.2235  0.72  0.24  0.00   0.0  15.0 285.6  2.0   0  0.00  93. 1010.   2 NAD-SFC NoSubs
 8 10 21 295 10  113.1 -9.000 -9.000 -9.000  441. -999. -99999.0 0.2235  0.72  0.21  0.00   0.0  15.0 288.0  2.0   0  0.00  79. 1009.   2 NAD-SFC NoSubs
 8 10 21 295 11  138.8 -9.000 -9.000 -9.000  662. -999. -99999.0 0.2235  0.72  0.20  0.00   0.0  15.0 290.0  2.0   0  0.00  68. 1009.   2 NAD-SFC NoSubs
 8 10 21 295 12  149.7 -9.000 -9.000 -9.000  719. -999. -99999.0 0.2235  0.72  0.20  0.00   0.0  15.0 291.5  2.0   0  0.00  62. 1008.   2 NAD-SFC NoSubs
 8 10 21 295 13  145.6  0.117  1.461  0.014  771.   96.     -1.0 0.2720  0.72  0.20  0.50 321.0  15.0 292.8  2.0   0  0.00  57. 1007.   2 NAD-SFC NoSubs
 8 10 21 295 14  126.8  0.177  1.421  0.013  814.  178.     -3.9 0.2930  0.72  0.20  1.00 335.0  15.0 293.9  2.0   0  0.00  53. 1006.   2 NAD-SFC NoSubs
 8 10 21 295 15   93.5  0.221  1.300  0.013  844.  249.    -10.3 0.2930  0.72  0.22  1.50 355.0  15.0 294.4  2.0   0  0.00  50. 1006.   2 NAD-SFC NoSubs
 8 10 21 295 16   48.0  0.307  1.048  0.013  860.  408.    -54.0 0.2930  0.72  0.28  2.60 343.0  15.0 295.8  2.0   0  0.00  45. 1005.   2 NAD-SFC NoSubs
 8 10 21 295 17   -3.8  0.210 -9.000 -9.000 -999.  235.    216.2 0.2930  0.72  0.46  2.10 342.0  15.0 295.4  2.0   0  0.00  51. 1005.   2 NAD-SFC NoSubs
 8 10 21 295 18   -8.3  0.140 -9.000 -9.000 -999.  127.     29.7 0.2940  0.72  1.00  1.50   4.0  15.0 294.4  2.0   0  0.00  55. 1005.   2 NAD-SFC NoSubs
 8 10 21 295 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 293.2  2.0   0  0.00  60. 1005.   2 NAD-SFC NoSubs
 8 10 21 295 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 291.9  2.0   0  0.00  66. 1005.   2 NAD-SFC NoSubs
 8 10 21 295 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 290.8  2.0   0  0.00  72. 1005.   2 NAD-SFC NoSubs
 8 10 21 295 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 290.0  2.0   0  0.00  75. 1006.   2 NAD-SFC NoSubs
 8 10 21 295 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 289.2  2.0   0  0.00  78. 1006.   2 NAD-SFC NoSubs
 8 10 21 295 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 288.8  2.0   0  0.00  80. 1006.   2 NAD-SFC NoSubs
 8 10 22 296  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 288.4  2.0   0  0.00  80. 1006.   2 NAD-SFC NoSubs
 8 10 22 296  2   -1.5  0.081 -9.000 -9.000 -999.   56.     31.5 0.2160  0.72  1.00  0.50 275.0  15.0 288.1  2.0   0  0.00  80. 1006.   2 NAD-SFC NoSubs
 8 10 22 296  3   -1.4  0.079 -9.000 -9.000 -999.   54.     31.1 0.1750  0.72  1.00  0.50 268.0  15.0 287.8  2.0   0  0.00  79. 1007.   2 NAD-SFC NoSubs
 8 10 22 296  4   -3.4  0.094 -9.000 -9.000 -999.   69.     21.7 0.1750  0.72  1.00  1.00 257.0  15.0 287.5  2.0   0  0.00  78. 1007.   2 NAD-SFC NoSubs
 8 10 22 296  5   -3.4  0.094 -9.000 -9.000 -999.   69.     21.7 0.1750  0.72  1.00  1.00 265.0  15.0 287.2  2.0   0  0.00  76. 1007.   2 NAD-SFC NoSubs
 8 10 22 296  6   -6.7  0.123 -9.000 -9.000 -999.  103.     24.6 0.1750  0.72  1.00  1.50 263.0  15.0 287.1  2.0   0  0.00  75. 1008.   2 NAD-SFC NoSubs
 8 10 22 296  7   -3.4  0.094 -9.000 -9.000 -999.   70.     22.4 0.2160  0.72  0.62  1.00 272.0  15.0 286.8  2.0   0  0.00  75. 1008.   2 NAD-SFC NoSubs
 8 10 22 296  8   23.3  0.135  0.360  0.012   71.  119.     -9.5 0.2160  0.72  0.33  1.00 293.0  15.0 287.0  2.0   0  0.00  72. 1008.   2 NAD-SFC NoSubs
 8 10 22 296  9   73.8  0.211  0.719  0.011  181.  233.    -11.5 0.2720  0.72  0.24  1.50 302.0  15.0 289.9  2.0   0  0.00  57. 1009.   2 NAD-SFC NoSubs
 8 10 22 296 10  113.3  0.222  1.032  0.011  349.  250.     -8.6 0.2720  0.72  0.21  1.50 306.0  15.0 292.1  2.0   0  0.00  50. 1008.   2 NAD-SFC NoSubs
 8 10 22 296 11  139.2  0.179  1.228  0.011  479.  182.     -3.7 0.2930  0.72  0.20  1.00 353.0  15.0 294.4  2.0   0  0.00  42. 1008.   2 NAD-SFC NoSubs
 8 10 22 296 12  150.5  0.180  1.347  0.010  584.  184.     -3.5 0.2940  0.72  0.20  1.00   6.0  15.0 296.5  2.0   0  0.00  36. 1008.   2 NAD-SFC NoSubs
 8 10 22 296 13  146.7  0.232  1.401  0.009  674.  268.     -7.7 0.2940  0.72  0.20  1.50  16.0  15.0 298.1  2.0   0  0.00  32. 1007.   2 NAD-SFC NoSubs
 8 10 22 296 14  127.9  0.321  1.386  0.009  749.  436.    -23.1 0.2470  0.72  0.21  2.60  30.0  15.0 299.1  2.0   0  0.00  30. 1007.   2 NAD-SFC NoSubs
 8 10 22 296 15   94.6  0.357  1.281  0.008  799.  511.    -43.1 0.2470  0.72  0.22  3.10  45.0  15.0 299.4  2.0   0  0.00  31. 1007.   2 NAD-SFC NoSubs
 8 10 22 296 16   48.2  0.340  1.033  0.008  822.  475.    -72.9 0.2470  0.72  0.28  3.10  31.0  15.0 298.6  2.0   0  0.00  41. 1006.   2 NAD-SFC NoSubs
 8 10 22 296 17   -6.7  0.350 -9.000 -9.000 -999.  496.    574.8 0.2470  0.72  0.46  3.60  38.0  15.0 297.4  2.0   0  0.00  47. 1007.   2 NAD-SFC NoSubs
 8 10 22 296 18  -29.1  0.277 -9.000 -9.000 -999.  353.     65.7 0.2130  0.72  1.00  3.10  91.0  15.0 295.9  2.0   0  0.00  50. 1007.   2 NAD-SFC NoSubs
 8 10 22 296 19  -38.4  0.364 -9.000 -9.000 -999.  526.    112.3 0.1970  0.72  1.00  4.10 148.0  15.0 293.9  2.0   0  0.00  52. 1007.   2 NAD-SFC NoSubs
 8 10 22 296 20  -48.5  0.456 -9.000 -9.000 -999.  739.    175.7 0.1970  0.72  1.00  5.10 147.0  15.0 292.0  2.0   0  0.00  50. 1007.   2 NAD-SFC NoSubs
 8 10 22 296 21  -47.7  0.447 -9.000 -9.000 -999.  716.    167.7 0.1810  0.72  1.00  5.10 160.0  15.0 291.0  2.0   0  0.00  47. 1007.   2 NAD-SFC NoSubs
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 8 10 22 296 22   -38.0  0.356 -9.000 -9.000 -999.  515.    106.4  0.1810  0.72  1.00   4.10  156.0  15.0  290.6  2.0   0  0.00  44.  1007.   2 NAD-SFC NoSubs
 8 10 22 296 23   -28.4  0.265 -9.000 -9.000 -999.  333.     59.2  0.1810  0.72  1.00   3.10  154.0  15.0  290.8  2.0   0  0.00  41.  1007.   2 NAD-SFC NoSubs
 8 10 22 296 24   -13.9  0.178 -9.000 -9.000 -999.  184.     36.8  0.1970  0.72  1.00   2.10  124.0  15.0  290.4  2.0   0  0.00  42.  1007.   2 NAD-SFC NoSubs
 8 10 23 297  1    -7.2  0.128 -9.000 -9.000 -999.  111.     26.3  0.2130  0.72  1.00   1.50   91.0  15.0  289.6  2.0   0  0.00  47.  1007.   2 NAD-SFC NoSubs
 8 10 23 297  2    -7.2  0.128 -9.000 -9.000 -999.  110.     26.1  0.2090  0.72  1.00   1.50   68.0  15.0  288.9  2.0   0  0.00  52.  1007.   2 NAD-SFC NoSubs
 8 10 23 297  3    -3.6  0.097 -9.000 -9.000 -999.   72.     22.3  0.2090  0.72  1.00   1.00   60.0  15.0  288.2  2.0   0  0.00  56.  1006.   2 NAD-SFC NoSubs
 8 10 23 297  4    -1.7  0.085 -9.000 -9.000 -999.   59.     32.1  0.2940  0.72  1.00   0.50   22.0  15.0  287.8  2.0   0  0.00  59.  1006.   2 NAD-SFC NoSubs
 8 10 23 297  5    -1.7  0.085 -9.000 -9.000 -999.   59.     32.2  0.2940  0.72  1.00   0.50   15.0  15.0  287.2  2.0   0  0.00  63.  1006.   2 NAD-SFC NoSubs
 8 10 23 297  6    -1.6  0.083 -9.000 -9.000 -999.   57.     31.9  0.2470  0.72  1.00   0.50   40.0  15.0  286.8  2.0   0  0.00  65.  1007.   2 NAD-SFC NoSubs
 8 10 23 297  7    -1.4  0.078 -9.000 -9.000 -999.   52.     30.5  0.2090  0.72  0.63   0.50   73.0  15.0  286.2  2.0   0  0.00  67.  1007.   2 NAD-SFC NoSubs
 8 10 23 297  8    22.1  0.085  0.331  0.012   59.   60.     -2.5  0.2090  0.72  0.33   0.50   82.0  15.0  286.2  2.0   0  0.00  66.  1007.   2 NAD-SFC NoSubs
 8 10 23 297  9    72.5 -9.000 -9.000 -9.000  174. -999. -99999.0  0.2235  0.72  0.24   0.00    0.0  15.0  289.6  2.0   0  0.00  53.  1007.   2 NAD-SFC NoSubs
 8 10 23 297 10   112.1  0.112  1.032  0.007  352.   90.     -1.1  0.2720  0.72  0.21   0.50  301.0  15.0  292.0  2.0   0  0.00  45.  1007.   2 NAD-SFC NoSubs
 8 10 23 297 11   137.8 -9.000 -9.000 -9.000  538. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  293.9  2.0   0  0.00  41.  1006.   2 NAD-SFC NoSubs
 8 10 23 297 12   148.9 -9.000 -9.000 -9.000  695. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  295.8  2.0   0  0.00  34.  1005.   2 NAD-SFC NoSubs
 8 10 23 297 13   144.9 -9.000 -9.000 -9.000  822. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  297.0  2.0   0  0.00  31.  1005.   2 NAD-SFC NoSubs
 8 10 23 297 14   126.0 -9.000 -9.000 -9.000  919. -999. -99999.0  0.2235  0.72  0.21   0.00    0.0  15.0  297.9  2.0   0  0.00  30.  1004.   2 NAD-SFC NoSubs
 8 10 23 297 15    92.6  0.111  1.365  0.006  985.   89.     -1.3  0.2940  0.72  0.22   0.50    6.0  15.0  298.2  2.0   0  0.00  30.  1004.   2 NAD-SFC NoSubs
 8 10 23 297 16    46.7  0.150  1.100  0.006 1021.  140.     -6.5  0.2470  0.72  0.28   1.00   32.0  15.0  298.2  2.0   0  0.00  32.  1003.   2 NAD-SFC NoSubs
 8 10 23 297 17    -1.6  0.090 -9.000 -9.000 -999.   66.     40.4  0.2470  0.72  0.47   1.00   37.0  15.0  297.6  2.0   0  0.00  37.  1003.   2 NAD-SFC NoSubs
 8 10 23 297 18    -1.6  0.082 -9.000 -9.000 -999.   56.     31.5  0.2470  0.72  1.00   0.50   44.0  15.0  296.0  2.0   0  0.00  42.  1004.   2 NAD-SFC NoSubs
 8 10 23 297 19    -1.4  0.079 -9.000 -9.000 -999.   53.     30.8  0.1750  0.72  1.00   0.50  263.0  15.0  294.2  2.0   0  0.00  49.  1004.   2 NAD-SFC NoSubs
 8 10 23 297 20  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  292.9  2.0   0  0.00  55.  1004.   2 NAD-SFC NoSubs
 8 10 23 297 21  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  291.8  2.0   0  0.00  59.  1004.   2 NAD-SFC NoSubs
 8 10 23 297 22  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  290.8  2.0   0  0.00  64.  1004.   2 NAD-SFC NoSubs
 8 10 23 297 23    -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.2090  0.72  1.00   0.50   85.0  15.0  289.6  2.0   0  0.00  68.  1004.   2 NAD-SFC NoSubs
 8 10 23 297 24    -3.6  0.097 -9.000 -9.000 -999.   72.     22.4  0.2130  0.72  1.00   1.00  104.0  15.0  288.8  2.0   0  0.00  71.  1004.   2 NAD-SFC NoSubs
 8 10 24 298  1    -1.5  0.081 -9.000 -9.000 -999.   55.     31.5  0.2090  0.72  1.00   0.50   88.0  15.0  288.2  2.0   0  0.00  72.  1004.   2 NAD-SFC NoSubs
 8 10 24 298  2  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  287.8  2.0   0  0.00  72.  1004.   2 NAD-SFC NoSubs
 8 10 24 298  3    -1.5  0.081 -9.000 -9.000 -999.   56.     31.5  0.2130  0.72  1.00   0.50  113.0  15.0  287.2  2.0   0  0.00  72.  1004.   2 NAD-SFC NoSubs
 8 10 24 298  4    -1.5  0.081 -9.000 -9.000 -999.   56.     31.6  0.2130  0.72  1.00   0.50  102.0  15.0  286.8  2.0   0  0.00  73.  1004.   2 NAD-SFC NoSubs
 8 10 24 298  5    -1.5  0.081 -9.000 -9.000 -999.   56.     31.6  0.2130  0.72  1.00   0.50  105.0  15.0  286.4  2.0   0  0.00  73.  1004.   2 NAD-SFC NoSubs
 8 10 24 298  6  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  286.0  2.0   0  0.00  74.  1005.   2 NAD-SFC NoSubs
 8 10 24 298  7  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.64   0.00    0.0  15.0  285.5  2.0   0  0.00  74.  1005.   2 NAD-SFC NoSubs
 8 10 24 298  8    20.9 -9.000 -9.000 -9.000   51. -999. -99999.0  0.2235  0.72  0.33   0.00    0.0  15.0  285.8  2.0   0  0.00  72.  1005.   2 NAD-SFC NoSubs
 8 10 24 298  9    71.3 -9.000 -9.000 -9.000  154. -999. -99999.0  0.2235  0.72  0.24   0.00    0.0  15.0  289.2  2.0   0  0.00  57.  1006.   2 NAD-SFC NoSubs
 8 10 24 298 10   110.7 -9.000 -9.000 -9.000  298. -999. -99999.0  0.2235  0.72  0.21   0.00    0.0  15.0  291.6  2.0   0  0.00  50.  1006.   2 NAD-SFC NoSubs
 8 10 24 298 11   136.5 -9.000 -9.000 -9.000  432. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  293.8  2.0   0  0.00  46.  1005.   2 NAD-SFC NoSubs
 8 10 24 298 12   147.6 -9.000 -9.000 -9.000  554. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  295.8  2.0   0  0.00  42.  1005.   2 NAD-SFC NoSubs
 8 10 24 298 13   143.8 -9.000 -9.000 -9.000  652. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  297.2  2.0   0  0.00  37.  1004.   2 NAD-SFC NoSubs
 8 10 24 298 14   124.9 -9.000 -9.000 -9.000  756. -999. -99999.0  0.2235  0.72  0.21   0.00    0.0  15.0  298.2  2.0   0  0.00  34.  1004.   2 NAD-SFC NoSubs
 8 10 24 298 15    91.6 -9.000 -9.000 -9.000  825. -999. -99999.0  0.2235  0.72  0.23   0.00    0.0  15.0  298.8  2.0   0  0.00  33.  1003.   2 NAD-SFC NoSubs
 8 10 24 298 16    45.7  0.101  1.031  0.007  857.   77.     -2.0  0.2940  0.72  0.29   0.50   25.0  15.0  298.8  2.0   0  0.00  36.  1003.   2 NAD-SFC NoSubs
 8 10 24 298 17    -0.5  0.052 -9.000 -9.000 -999.   29.     23.7  0.2940  0.72  0.48   0.50   26.0  15.0  298.0  2.0   0  0.00  40.  1003.   2 NAD-SFC NoSubs
 8 10 24 298 18  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  296.4  2.0   0  0.00  47.  1004.   2 NAD-SFC NoSubs
 8 10 24 298 19  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  294.8  2.0   0  0.00  53.  1004.   2 NAD-SFC NoSubs
 8 10 24 298 20  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  293.5  2.0   0  0.00  58.  1004.   2 NAD-SFC NoSubs
 8 10 24 298 21  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  292.2  2.0   0  0.00  63.  1004.   2 NAD-SFC NoSubs
 8 10 24 298 22    -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.2130  0.72  1.00   0.50   95.0  15.0  291.2  2.0   0  0.00  68.  1005.   2 NAD-SFC NoSubs
 8 10 24 298 23    -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.2090  0.72  1.00   0.50   78.0  15.0  290.2  2.0   0  0.00  71.  1005.   2 NAD-SFC NoSubs
 8 10 24 298 24    -1.6  0.083 -9.000 -9.000 -999.   57.     31.8  0.2470  0.72  1.00   0.50   57.0  15.0  289.5  2.0   0  0.00  74.  1005.   2 NAD-SFC NoSubs
 8 10 25 299  1    -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.2090  0.72  1.00   0.50   69.0  15.0  288.9  2.0   0  0.00  76.  1005.   2 NAD-SFC NoSubs
 8 10 25 299  2  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  288.4  2.0   0  0.00  76.  1005.   2 NAD-SFC NoSubs
 8 10 25 299  3  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  287.9  2.0   0  0.00  76.  1005.   2 NAD-SFC NoSubs
 8 10 25 299  4  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  287.4  2.0   0  0.00  77.  1005.   2 NAD-SFC NoSubs
 8 10 25 299  5  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  286.9  2.0   0  0.00  78.  1006.   2 NAD-SFC NoSubs
 8 10 25 299  6  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  286.6  2.0   0  0.00  79.  1006.   2 NAD-SFC NoSubs
 8 10 25 299  7    -1.5  0.081 -9.000 -9.000 -999.   56.     31.3  0.2720  0.72  0.64   0.50  316.0  15.0  286.2  2.0   0  0.00  78.  1007.   2 NAD-SFC NoSubs
 8 10 25 299  8    20.2  0.139  0.307  0.013   51.  125.    -12.1  0.2720  0.72  0.34   1.00  310.0  15.0  286.6  2.0   0  0.00  77.  1007.   2 NAD-SFC NoSubs
 8 10 25 299  9    70.3  0.210  0.666  0.011  150.  231.    -11.8  0.2720  0.72  0.24   1.50  307.0  15.0  289.9  2.0   0  0.00  64.  1007.   2 NAD-SFC NoSubs
 8 10 25 299 10   109.6  0.162  0.962  0.011  291.  157.     -3.5  0.2160  0.72  0.21   1.00  296.0  15.0  291.8  2.0   0  0.00  62.  1007.   2 NAD-SFC NoSubs
 8 10 25 299 11   135.4  0.115  1.170  0.010  425.   94.     -1.0  0.2720  0.72  0.20   0.50  309.0  15.0  294.0  2.0   0  0.00  55.  1007.   2 NAD-SFC NoSubs
 8 10 25 299 12   146.5  0.117  1.296  0.008  534.   96.     -1.0  0.2720  0.72  0.20   0.50  309.0  15.0  295.9  2.0   0  0.00  48.  1006.   2 NAD-SFC NoSubs
 8 10 25 299 13   142.7  0.116  1.353  0.007  623.   95.     -1.0  0.2720  0.72  0.20   0.50  310.0  15.0  297.8  2.0   0  0.00  39.  1005.   2 NAD-SFC NoSubs
 8 10 25 299 14   123.9  0.116  1.348  0.006  710.   95.     -1.1  0.2930  0.72  0.21   0.50  335.0  15.0  298.8  2.0   0  0.00  34.  1005.   2 NAD-SFC NoSubs
 8 10 25 299 15    90.6  0.111  1.254  0.006  780.   89.     -1.4  0.2930  0.72  0.23   0.50  352.0  15.0  299.2  2.0   0  0.00  33.  1004.   2 NAD-SFC NoSubs
 8 10 25 299 16    44.7  0.101  1.004  0.006  812.   77.     -2.1  0.2940  0.72  0.29   0.50    9.0  15.0  299.2  2.0   0  0.00  36.  1004.   2 NAD-SFC NoSubs
 8 10 25 299 17  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.48   0.00    0.0  15.0  298.4  2.0   0  0.00  41.  1004.   2 NAD-SFC NoSubs
 8 10 25 299 18  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  296.8  2.0   0  0.00  47.  1004.   2 NAD-SFC NoSubs
 8 10 25 299 19  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  295.2  2.0   0  0.00  53.  1004.   2 NAD-SFC NoSubs
 8 10 25 299 20  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  293.8  2.0   0  0.00  59.  1004.   2 NAD-SFC NoSubs
 8 10 25 299 21  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  292.6  2.0   0  0.00  64.  1005.   2 NAD-SFC NoSubs
 8 10 25 299 22    -3.9  0.101 -9.000 -9.000 -999.   77.     23.3  0.2720  0.72  1.00   1.00  315.0  15.0  291.5  2.0   0  0.00  68.  1005.   2 NAD-SFC NoSubs
 8 10 25 299 23    -8.3  0.140 -9.000 -9.000 -999.  125.     29.5  0.2930  0.72  1.00   1.50  342.0  15.0  290.8  2.0   0  0.00  70.  1005.   2 NAD-SFC NoSubs
 8 10 25 299 24    -8.3  0.140 -9.000 -9.000 -999.  126.     29.5  0.2940  0.72  1.00   1.50    5.0  15.0  290.2  2.0   0  0.00  72.  1006.   2 NAD-SFC NoSubs
 8 10 26 300  1  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  289.8  2.0   0  0.00  73.  1006.   2 NAD-SFC NoSubs
 8 10 26 300  2    -1.7  0.084 -9.000 -9.000 -999.   59.     32.1  0.2940  0.72  1.00   0.50    9.0  15.0  289.1  2.0   0  0.00  74.  1006.   2 NAD-SFC NoSubs
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 8 10 26 300   3   -1.6  0.084 -9.000 -9.000 -999.   58.     32.0  0.2720  0.72  1.00  0.50  318.0  15.0  288.6  2.0   0  0.00   75.  1007.    2 NAD-SFC NoSubs
 8 10 26 300   4   -3.7  0.097 -9.000 -9.000 -999.   73.     22.4  0.2160  0.72  1.00  1.00  287.0  15.0  288.1  2.0   0  0.00   77.  1007.    2 NAD-SFC NoSubs
 8 10 26 300   5   -7.3  0.129 -9.000 -9.000 -999.  111.     26.3  0.2160  0.72  1.00  1.50  284.0  15.0  287.6  2.0   0  0.00   79.  1008.    2 NAD-SFC NoSubs
 8 10 26 300   6  -14.5  0.183 -9.000 -9.000 -999.  188.     37.8  0.2160  0.72  1.00  2.10  288.0  15.0  287.2  2.0   0  0.00   82.  1008.    2 NAD-SFC NoSubs
 8 10 26 300   7   -7.8  0.137 -9.000 -9.000 -999.  122.     29.4  0.2720  0.72  0.65  1.50  305.0  15.0  286.8  2.0   0  0.00   85.  1009.    2 NAD-SFC NoSubs
 8 10 26 300   8   19.2  0.185  0.335  0.012   70.  191.    -29.5  0.2720  0.72  0.34  1.50  302.0  15.0  286.9  2.0   0  0.00   86.  1009.    2 NAD-SFC NoSubs
 8 10 26 300   9   68.9  0.265  0.695  0.011  175.  327.    -24.3  0.2720  0.72  0.24  2.10  318.0  15.0  289.0  2.0   0  0.00   78.  1009.    2 NAD-SFC NoSubs
 8 10 26 300  10  108.1  0.221  0.962  0.011  297.  249.     -8.9  0.2720  0.72  0.21  1.50  314.0  15.0  291.0  2.0   0  0.00   68.  1009.    2 NAD-SFC NoSubs
 8 10 26 300  11  133.8  0.175  1.156  0.010  416.  176.     -3.6  0.2720  0.72  0.20  1.00  324.0  15.0  293.0  2.0   0  0.00   60.  1008.    2 NAD-SFC NoSubs
 8 10 26 300  12  144.9  0.117  1.307  0.010  554.   96.     -1.0  0.2720  0.72  0.20  0.50  317.0  15.0  295.2  2.0   0  0.00   49.  1007.    2 NAD-SFC NoSubs
 8 10 26 300  13  141.0  0.179  1.373  0.010  660.  182.     -3.7  0.2930  0.72  0.20  1.00  335.0  15.0  296.8  2.0   0  0.00   42.  1007.    2 NAD-SFC NoSubs
 8 10 26 300  14  122.0  0.227  1.354  0.009  731.  260.     -8.6  0.2930  0.72  0.21  1.50  345.0  15.0  297.5  2.0   0  0.00   40.  1006.    2 NAD-SFC NoSubs
 8 10 26 300  15   88.6  0.219  1.243  0.009  778.  247.    -10.7  0.2930  0.72  0.23  1.50  354.0  15.0  297.9  2.0   0  0.00   39.  1006.    2 NAD-SFC NoSubs
 8 10 26 300  16   43.2  0.259  0.988  0.009  801.  316.    -36.0  0.2940  0.72  0.29  2.10   15.0  15.0  298.6  2.0   0  0.00   41.  1005.    2 NAD-SFC NoSubs
 8 10 26 300  17   -7.7  0.207 -9.000 -9.000 -999.  226.    102.2  0.2940  0.72  0.49  2.10   21.0  15.0  298.0  2.0   0  0.00   45.  1005.    2 NAD-SFC NoSubs
 8 10 26 300  18   -7.6  0.133 -9.000 -9.000 -999.  118.     28.0  0.2470  0.72  1.00  1.50   35.0  15.0  296.8  2.0   0  0.00   49.  1006.    2 NAD-SFC NoSubs
 8 10 26 300  19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  295.4  2.0   0  0.00   55.  1006.    2 NAD-SFC NoSubs
 8 10 26 300  20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  294.0  2.0   0  0.00   61.  1007.    2 NAD-SFC NoSubs
 8 10 26 300  21   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.2160  0.72  1.00  0.50  289.0  15.0  292.9  2.0   0  0.00   66.  1008.    2 NAD-SFC NoSubs
 8 10 26 300  22   -1.6  0.083 -9.000 -9.000 -999.   58.     31.9  0.2720  0.72  1.00  0.50  319.0  15.0  292.1  2.0   0  0.00   69.  1008.    2 NAD-SFC NoSubs
 8 10 26 300  23   -8.3  0.140 -9.000 -9.000 -999.  125.     29.5  0.2930  0.72  1.00  1.50  333.0  15.0  291.4  2.0   0  0.00   71.  1009.    2 NAD-SFC NoSubs
 8 10 26 300  24  -16.1  0.195 -9.000 -9.000 -999.  207.     41.7  0.2720  0.72  1.00  2.10  320.0  15.0  290.9  2.0   0  0.00   72.  1009.    2 NAD-SFC NoSubs
 8 10 27 301   1  -31.8  0.296 -9.000 -9.000 -999.  387.     73.7  0.2720  0.72  1.00  3.10  315.0  15.0  290.2  2.0   0  0.00   73.  1010.    2 NAD-SFC NoSubs
 8 10 27 301   2  -31.9  0.296 -9.000 -9.000 -999.  387.     73.5  0.2720  0.72  1.00  3.10  309.0  15.0  289.5  2.0   0  0.00   73.  1010.    2 NAD-SFC NoSubs
 8 10 27 301   3  -22.6  0.230 -9.000 -9.000 -999.  267.     48.7  0.2160  0.72  1.00  2.60  289.0  15.0  289.0  2.0   0  0.00   71.  1011.    2 NAD-SFC NoSubs
 8 10 27 301   4  -22.7  0.230 -9.000 -9.000 -999.  265.     48.7  0.2160  0.72  1.00  2.60  280.0  15.0  288.6  2.0   0  0.00   69.  1011.    2 NAD-SFC NoSubs
 8 10 27 301   5  -14.5  0.183 -9.000 -9.000 -999.  188.     37.9  0.2160  0.72  1.00  2.10  270.0  15.0  288.4  2.0   0  0.00   66.  1012.    2 NAD-SFC NoSubs
 8 10 27 301   6   -7.3  0.129 -9.000 -9.000 -999.  112.     26.4  0.2160  0.72  1.00  1.50  285.0  15.0  288.2  2.0   0  0.00   64.  1012.    2 NAD-SFC NoSubs
 8 10 27 301   7   -1.4  0.078 -9.000 -9.000 -999.   52.     30.5  0.1750  0.72  0.66  0.50  266.0  15.0  287.8  2.0   0  0.00   64.  1013.    2 NAD-SFC NoSubs
 8 10 27 301   8   18.4 -9.000 -9.000 -9.000   79. -999. -99999.0  0.2235  0.72  0.34  0.00    0.0  15.0  287.6  2.0   0  0.00   63.  1013.    2 NAD-SFC NoSubs
 8 10 27 301   9   67.7  0.209  0.709  0.012  190.  229.    -12.2  0.2720  0.72  0.25  1.50  323.0  15.0  288.9  2.0   0  0.00   54.  1013.    2 NAD-SFC NoSubs
 8 10 27 301  10  106.7  0.170  0.955  0.010  295.  168.     -4.2  0.2720  0.72  0.21  1.00  307.0  15.0  290.2  2.0   0  0.00   51.  1013.    2 NAD-SFC NoSubs
 8 10 27 301  11  132.0  0.109  1.125  0.008  389.   87.     -1.0  0.2160  0.72  0.20  0.50  287.0  15.0  291.8  2.0   0  0.00   48.  1013.    2 NAD-SFC NoSubs
 8 10 27 301  12  142.9  0.110  1.280  0.008  530.   88.     -1.0  0.2160  0.72  0.20  0.50  288.0  15.0  293.4  2.0   0  0.00   44.  1012.    2 NAD-SFC NoSubs
 8 10 27 301  13  138.8  0.176  1.350  0.007  640.  177.     -3.5  0.2720  0.72  0.20  1.00  311.0  15.0  294.8  2.0   0  0.00   40.  1011.    2 NAD-SFC NoSubs
 8 10 27 301  14  119.7  0.172  1.346  0.007  735.  172.     -3.9  0.2720  0.72  0.21  1.00  316.0  15.0  295.2  2.0   0  0.00   38.  1010.    2 NAD-SFC NoSubs
 8 10 27 301  15   86.3  0.215  1.241  0.007  799.  239.    -10.4  0.2720  0.72  0.23  1.50  316.0  15.0  295.5  2.0   0  0.00   38.  1010.    2 NAD-SFC NoSubs
 8 10 27 301  16   40.4  0.098  0.975  0.007  827.   82.     -2.1  0.2720  0.72  0.29  0.50  318.0  15.0  295.2  2.0   0  0.00   43.  1009.    2 NAD-SFC NoSubs
 8 10 27 301  17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.50  0.00    0.0  15.0  294.6  2.0   0  0.00   47.  1009.    2 NAD-SFC NoSubs
 8 10 27 301  18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  293.6  2.0   0  0.00   52.  1009.    2 NAD-SFC NoSubs
 8 10 27 301  19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  292.6  2.0   0  0.00   56.  1010.    2 NAD-SFC NoSubs
 8 10 27 301  20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  291.9  2.0   0  0.00   60.  1010.    2 NAD-SFC NoSubs
 8 10 27 301  21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  291.2  2.0   0  0.00   62.  1010.    2 NAD-SFC NoSubs
 8 10 27 301  22   -1.6  0.082 -9.000 -9.000 -999.   57.     31.7  0.2470  0.72  1.00  0.50   54.0  15.0  290.8  2.0   0  0.00   65.  1011.    2 NAD-SFC NoSubs
 8 10 27 301  23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  290.2  2.0   0  0.00   67.  1011.    2 NAD-SFC NoSubs
 8 10 27 301  24   -1.7  0.084 -9.000 -9.000 -999.   59.     32.1  0.2930  0.72  1.00  0.50  339.0  15.0  289.8  2.0   0  0.00   69.  1011.    2 NAD-SFC NoSubs
 8 10 28 302   1   -4.0  0.101 -9.000 -9.000 -999.   77.     23.3  0.2720  0.72  1.00  1.00  329.0  15.0  289.2  2.0   0  0.00   71.  1011.    2 NAD-SFC NoSubs
 8 10 28 302   2   -4.1  0.102 -9.000 -9.000 -999.   79.     23.6  0.2930  0.72  1.00  1.00  338.0  15.0  288.8  2.0   0  0.00   74.  1011.    2 NAD-SFC NoSubs
 8 10 28 302   3   -4.1  0.102 -9.000 -9.000 -999.   79.     23.6  0.2930  0.72  1.00  1.00  339.0  15.0  288.2  2.0   0  0.00   78.  1011.    2 NAD-SFC NoSubs
 8 10 28 302   4   -1.7  0.084 -9.000 -9.000 -999.   59.     32.1  0.2930  0.72  1.00  0.50  353.0  15.0  287.6  2.0   0  0.00   82.  1012.    2 NAD-SFC NoSubs
 8 10 28 302   5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  287.0  2.0   0  0.00   86.  1012.    2 NAD-SFC NoSubs
 8 10 28 302   6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  286.6  2.0   0  0.00   89.  1012.    2 NAD-SFC NoSubs
 8 10 28 302   7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.67  0.00    0.0  15.0  286.2  2.0   0  0.00   91.  1012.    2 NAD-SFC NoSubs
 8 10 28 302   8   16.9  0.089  0.363  0.015  102.   64.     -3.8  0.2940  0.72  0.35  0.50   28.0  15.0  285.9  2.0   0  0.00   93.  1013.    2 NAD-SFC NoSubs
 8 10 28 302   9   66.0  0.107  0.716  0.014  201.   83.     -1.7  0.2930  0.72  0.25  0.50  353.0  15.0  287.2  2.0   0  0.00   86.  1012.    2 NAD-SFC NoSubs
 8 10 28 302  10  105.1 -9.000 -9.000 -9.000  305. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  289.2  2.0   0  0.00   76.  1012.    2 NAD-SFC NoSubs
 8 10 28 302  11  130.8 -9.000 -9.000 -9.000  403. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  291.5  2.0   0  0.00   63.  1012.    2 NAD-SFC NoSubs
 8 10 28 302  12  141.6  0.176  1.263  0.012  513.  177.     -3.5  0.2720  0.72  0.20  1.00  325.0  15.0  293.1  2.0   0  0.00   55.  1011.    2 NAD-SFC NoSubs
 8 10 28 302  13  137.4  0.226  1.319  0.012  602.  259.     -7.6  0.2720  0.72  0.20  1.50  316.0  15.0  294.2  2.0   0  0.00   52.  1010.    2 NAD-SFC NoSubs
 8 10 28 302  14  118.4  0.223  1.300  0.011  668.  252.     -8.4  0.2720  0.72  0.21  1.50  326.0  15.0  295.1  2.0   0  0.00   50.  1009.    2 NAD-SFC NoSubs
 8 10 28 302  15   85.1  0.275  1.188  0.011  709.  346.    -22.0  0.2930  0.72  0.23  2.10  343.0  15.0  295.6  2.0   0  0.00   49.  1009.    2 NAD-SFC NoSubs
 8 10 28 302  16   39.4  0.257  0.927  0.011  727.  312.    -38.7  0.2930  0.72  0.30  2.10  343.0  15.0  295.6  2.0   0  0.00   51.  1009.    2 NAD-SFC NoSubs
 8 10 28 302  17   -2.6  0.093 -9.000 -9.000 -999.   97.     28.5  0.2930  0.72  0.50  1.00  342.0  15.0  295.2  2.0   0  0.00   55.  1009.    2 NAD-SFC NoSubs
 8 10 28 302  18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  294.2  2.0   0  0.00   59.  1009.    2 NAD-SFC NoSubs
 8 10 28 302  19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  293.0  2.0   0  0.00   63.  1009.    2 NAD-SFC NoSubs
 8 10 28 302  20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  291.9  2.0   0  0.00   68.  1009.    2 NAD-SFC NoSubs
 8 10 28 302  21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  290.9  2.0   0  0.00   73.  1009.    2 NAD-SFC NoSubs
 8 10 28 302  22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  290.0  2.0   0  0.00   77.  1010.    2 NAD-SFC NoSubs
 8 10 28 302  23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  289.4  2.0   0  0.00   80.  1010.    2 NAD-SFC NoSubs
 8 10 28 302  24   -1.7  0.084 -9.000 -9.000 -999.   59.     32.1  0.2930  0.72  1.00  0.50  335.0  15.0  288.9  2.0   0  0.00   82.  1009.    2 NAD-SFC NoSubs
 8 10 29 303   1   -1.7  0.084 -9.000 -9.000 -999.   59.     32.1  0.2930  0.72  1.00  0.50  340.0  15.0  288.5  2.0   0  0.00   82.  1009.    2 NAD-SFC NoSubs
 8 10 29 303   2   -1.7  0.084 -9.000 -9.000 -999.   59.     32.1  0.2930  0.72  1.00  0.50  345.0  15.0  288.2  2.0   0  0.00   83.  1009.    2 NAD-SFC NoSubs
 8 10 29 303   3   -1.7  0.084 -9.000 -9.000 -999.   59.     32.1  0.2930  0.72  1.00  0.50  343.0  15.0  287.8  2.0   0  0.00   84.  1009.    2 NAD-SFC NoSubs
 8 10 29 303   4   -1.7  0.085 -9.000 -9.000 -999.   59.     32.1  0.2930  0.72  1.00  0.50  336.0  15.0  287.4  2.0   0  0.00   85.  1008.    2 NAD-SFC NoSubs
 8 10 29 303   5   -1.7  0.085 -9.000 -9.000 -999.   59.     32.2  0.2930  0.72  1.00  0.50  338.0  15.0  287.1  2.0   0  0.00   87.  1008.    2 NAD-SFC NoSubs
 8 10 29 303   6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  286.8  2.0   0  0.00   88.  1008.    2 NAD-SFC NoSubs
 8 10 29 303   7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.68  0.00    0.0  15.0  286.4  2.0   0  0.00   89.  1008.    2 NAD-SFC NoSubs
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 8 10 29 303  8   15.9 -9.000 -9.000 -9.000   84. -999. -99999.0 0.2235 0.72 0.35 0.00   0.0 15.0 286.2 2.0 0 0.00 91. 1008. 2 NAD-SFC NoSubs
 8 10 29 303  9   65.2 -9.000 -9.000 -9.000  210. -999. -99999.0 0.2235 0.72 0.25 0.00   0.0 15.0 288.2 2.0 0 0.00 77. 1008. 2 NAD-SFC NoSubs
 8 10 29 303 10  104.3 -9.000 -9.000 -9.000  335. -999. -99999.0 0.2235 0.72 0.21 0.00   0.0 15.0 290.2 2.0 0 0.00 69. 1008. 2 NAD-SFC NoSubs
 8 10 29 303 11  129.8 -9.000 -9.000 -9.000  454. -999. -99999.0 0.2235 0.72 0.20 0.00   0.0 15.0 292.2 2.0 0 0.00 60. 1007. 2 NAD-SFC NoSubs
 8 10 29 303 12  140.6 -9.000 -9.000 -9.000  564. -999. -99999.0 0.2235 0.72 0.20 0.00   0.0 15.0 293.8 2.0 0 0.00 54. 1006. 2 NAD-SFC NoSubs
 8 10 29 303 13  136.4  0.115  1.354  0.012  654.   94.     -1.0 0.2720 0.72 0.20 0.50 323.0 15.0 294.8 2.0 0 0.00 52. 1005. 2 NAD-SFC NoSubs
 8 10 29 303 14  117.4  0.113  1.327  0.012  713.   91.     -1.1 0.2720 0.72 0.21 0.50 328.0 15.0 295.6 2.0 0 0.00 50. 1004. 2 NAD-SFC NoSubs
 8 10 29 303 15   84.0  0.168  1.208  0.012  752.  165.     -5.0 0.2930 0.72 0.23 1.00 343.0 15.0 296.0 2.0 0 0.00 49. 1004. 2 NAD-SFC NoSubs
 8 10 29 303 16   38.4  0.201  0.938  0.012  769.  216.    -18.9 0.2930 0.72 0.30 1.50 349.0 15.0 296.0 2.0 0 0.00 50. 1003. 2 NAD-SFC NoSubs
 8 10 29 303 17   -6.0  0.143 -9.000 -9.000 -999.  130.     43.1 0.2940 0.72 0.51 1.50  14.0 15.0 295.5 2.0 0 0.00 54. 1003. 2 NAD-SFC NoSubs
 8 10 29 303 18   -1.6  0.084 -9.000 -9.000 -999.   59.     31.9 0.2940 0.72 1.00 0.50  14.0 15.0 294.2 2.0 0 0.00 59. 1003. 2 NAD-SFC NoSubs
 8 10 29 303 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 293.0 2.0 0 0.00 65. 1003. 2 NAD-SFC NoSubs
 8 10 29 303 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 291.8 2.0 0 0.00 71. 1003. 2 NAD-SFC NoSubs
 8 10 29 303 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 290.8 2.0 0 0.00 76. 1003. 2 NAD-SFC NoSubs
 8 10 29 303 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 290.0 2.0 0 0.00 80. 1003. 2 NAD-SFC NoSubs
 8 10 29 303 23   -4.1  0.102 -9.000 -9.000 -999.   79.     23.6 0.2930 0.72 1.00 1.00 359.0 15.0 289.4 2.0 0 0.00 83. 1003. 2 NAD-SFC NoSubs
 8 10 29 303 24  -16.6  0.200 -9.000 -9.000 -999.  214.     42.9 0.2940 0.72 1.00 2.10   7.0 15.0 288.9 2.0 0 0.00 84. 1003. 2 NAD-SFC NoSubs
 8 10 30 304  1  -16.7  0.200 -9.000 -9.000 -999.  214.     42.9 0.2940 0.72 1.00 2.10  10.0 15.0 288.8 2.0 0 0.00 84. 1004. 2 NAD-SFC NoSubs
 8 10 30 304  2   -4.1  0.102 -9.000 -9.000 -999.   83.     23.6 0.2930 0.72 1.00 1.00 330.0 15.0 288.6 2.0 0 0.00 83. 1004. 2 NAD-SFC NoSubs
 8 10 30 304  3   -1.4  0.079 -9.000 -9.000 -999.   54.     31.1 0.1750 0.72 1.00 0.50 256.0 15.0 288.2 2.0 0 0.00 83. 1003. 2 NAD-SFC NoSubs
 8 10 30 304  4   -3.4  0.094 -9.000 -9.000 -999.   69.     21.7 0.1750 0.72 1.00 1.00 247.0 15.0 287.9 2.0 0 0.00 84. 1003. 2 NAD-SFC NoSubs
 8 10 30 304  5   -1.5  0.081 -9.000 -9.000 -999.   56.     31.6 0.2160 0.72 1.00 0.50 280.0 15.0 287.6 2.0 0 0.00 84. 1003. 2 NAD-SFC NoSubs
 8 10 30 304  6   -1.6  0.084 -9.000 -9.000 -999.   58.     32.0 0.2720 0.72 1.00 0.50 307.0 15.0 287.4 2.0 0 0.00 85. 1003. 2 NAD-SFC NoSubs
 8 10 30 304  7   -1.6  0.083 -9.000 -9.000 -999.   57.     31.7 0.2720 0.72 0.69 0.50 305.0 15.0 287.2 2.0 0 0.00 85. 1003. 2 NAD-SFC NoSubs
 8 10 30 304  8   15.2 -9.000 -9.000 -9.000   65. -999. -99999.0 0.2235 0.72 0.35 0.00   0.0 15.0 287.2 2.0 0 0.00 86. 1003. 2 NAD-SFC NoSubs
 8 10 30 304  9   64.1  0.106  0.683  0.013  177.   83.     -1.7 0.2940 0.72 0.25 0.50  26.0 15.0 288.4 2.0 0 0.00 82. 1003. 2 NAD-SFC NoSubs
 8 10 30 304 10  103.3 -9.000 -9.000 -9.000  295. -999. -99999.0 0.2235 0.72 0.22 0.00   0.0 15.0 290.9 2.0 0 0.00 70. 1002. 2 NAD-SFC NoSubs
 8 10 30 304 11  129.1  0.166  1.133  0.011  403.  162.     -3.2 0.2160 0.72 0.20 1.00 279.0 15.0 293.4 2.0 0 0.00 56. 1002. 2 NAD-SFC NoSubs
 8 10 30 304 12  139.8  0.216  1.262  0.011  515.  241.     -6.4 0.2160 0.72 0.20 1.50 291.0 15.0 294.8 2.0 0 0.00 51. 1002. 2 NAD-SFC NoSubs
 8 10 30 304 13  135.4  0.335  1.317  0.010  603.  465.    -24.7 0.2930 0.72 0.20 2.60 335.0 15.0 295.2 2.0 0 0.00 53. 1002. 2 NAD-SFC NoSubs
 8 10 30 304 14  116.0  0.468  1.295  0.009  670.  768.    -78.9 0.2930 0.72 0.21 4.10 354.0 15.0 295.2 2.0 0 0.00 58. 1002. 2 NAD-SFC NoSubs
 8 10 30 304 15   83.5  0.505  1.188  0.008  717.  862.   -138.1 0.2930 0.72 0.23 4.60 350.0 15.0 295.2 2.0 0 0.00 59. 1002. 3 NAD-SFC NoSubs
 8 10 30 304 16   38.0  0.595  0.921  0.006  736. 1100.   -495.3 0.2930 0.72 0.30 5.70 331.0 15.0 294.4 2.0 0 0.00 62. 1003. 3 NAD-SFC NoSubs
 8 10 30 304 17  -27.5  0.505 -9.000 -9.000 -999.  871.    420.3 0.2720 0.72 0.52 5.10 319.0 15.0 293.2 2.0 0 0.00 70. 1003. 3 NAD-SFC NoSubs
 8 10 30 304 18  -35.3  0.355 -9.000 -9.000 -999.  527.    113.5 0.2930 0.72 1.00 3.60 343.0 15.0 292.8 2.0 0 0.00 74. 1005. 4 NAD-SFC NoSubs
 8 10 30 304 19  -29.6  0.297 -9.000 -9.000 -999.  391.     79.3 0.2720 0.72 1.00 3.10 329.0 15.0 292.2 2.0 0 0.00 77. 1006. 4 NAD-SFC NoSubs
 8 10 30 304 20  -25.1  0.252 -9.000 -9.000 -999.  305.     57.2 0.2930 0.72 1.00 2.60 344.0 15.0 292.1 2.0 0 0.00 77. 1006. 4 NAD-SFC NoSubs
 8 10 30 304 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 292.1 2.0 0 0.00 77. 1007. 4 NAD-SFC NoSubs
 8 10 30 304 22   -8.1  0.140 -9.000 -9.000 -999.  126.     30.5 0.2940 0.72 1.00 1.50   8.0 15.0 292.1 2.0 0 0.00 77. 1007. 4 NAD-SFC NoSubs
 8 10 30 304 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 292.1 2.0 0 0.00 78. 1008. 4 NAD-SFC NoSubs
 8 10 30 304 24   -3.9  0.101 -9.000 -9.000 -999.   77.     23.7 0.2930 0.72 1.00 1.00 347.0 15.0 292.1 2.0 0 0.00 78. 1008. 4 NAD-SFC NoSubs
 8 10 31 305  1   -3.8  0.099 -9.000 -9.000 -999.   75.     23.3 0.2720 0.72 1.00 1.00 306.0 15.0 292.1 2.0 0 0.00 78. 1008. 4 NAD-SFC NoSubs
 8 10 31 305  2   -3.5  0.095 -9.000 -9.000 -999.   70.     22.4 0.2160 0.72 1.00 1.00 290.0 15.0 292.1 2.0 0 0.00 79. 1009. 4 NAD-SFC NoSubs
 8 10 31 305  3   -1.4  0.079 -9.000 -9.000 -999.   53.     30.9 0.1950 0.72 1.00 0.50 220.0 15.0 292.4 2.0 0 0.00 78. 1009. 3 NAD-SFC NoSubs
 8 10 31 305  4   -3.4  0.094 -9.000 -9.000 -999.   69.     21.9 0.1900 0.72 1.00 1.00 197.0 15.0 292.4 2.0 0 0.00 78. 1010. 3 NAD-SFC NoSubs
 8 10 31 305  5   -6.9  0.126 -9.000 -9.000 -999.  107.     26.0 0.1950 0.72 1.00 1.50 220.0 15.0 292.4 2.0 0 0.00 79. 1010. 3 NAD-SFC NoSubs
 8 10 31 305  6   -3.4  0.094 -9.000 -9.000 -999.   70.     22.0 0.1950 0.72 1.00 1.00 211.0 15.0 292.2 2.0 0 0.00 79. 1011. 3 NAD-SFC NoSubs
 8 10 31 305  7   -1.4  0.078 -9.000 -9.000 -999.   52.     30.6 0.1900 0.72 0.70 0.50 190.0 15.0 292.4 2.0 0 0.00 77. 1011. 3 NAD-SFC NoSubs
 8 10 31 305  8   17.5 -9.000 -9.000 -9.000   74. -999. -99999.0 0.2235 0.72 0.36 0.00   0.0 15.0 292.4 2.0 0 0.00 76. 1012. 3 NAD-SFC NoSubs
 8 10 31 305  9   66.1 -9.000 -9.000 -9.000  355. -999. -99999.0 0.2235 0.72 0.25 0.00   0.0 15.0 293.9 2.0 0 0.00 68. 1012. 3 NAD-SFC NoSubs
 8 10 31 305 10  104.9 -9.000 -9.000 -9.000  960. -999. -99999.0 0.2235 0.72 0.22 0.00   0.0 15.0 295.8 2.0 0 0.00 55. 1012. 3 NAD-SFC NoSubs
 8 10 31 305 11  130.0 -9.000 -9.000 -9.000 1133. -999. -99999.0 0.2235 0.72 0.20 0.00   0.0 15.0 296.9 2.0 0 0.00 49. 1012. 3 NAD-SFC NoSubs
 8 10 31 305 12  140.4  0.110  1.711  0.005 1289.   88.     -1.0 0.2160 0.72 0.20 0.50 280.0 15.0 297.6 2.0 0 0.00 45. 1011. 3 NAD-SFC NoSubs
 8 10 31 305 13  136.0  0.110  1.747  0.005 1415.   87.     -1.0 0.2160 0.72 0.20 0.50 272.0 15.0 297.9 2.0 0 0.00 44. 1010. 3 NAD-SFC NoSubs
 8 10 31 305 14  116.9  0.115  1.697  0.005 1510.   93.     -1.2 0.2930 0.72 0.21 0.50 337.0 15.0 298.1 2.0 0 0.00 44. 1010. 3 NAD-SFC NoSubs
 8 10 31 305 15   83.6  0.275  1.539  0.005 1574.  346.    -22.4 0.2940 0.72 0.23 2.10  11.0 15.0 297.9 2.0 0 0.00 50. 1010. 3 NAD-SFC NoSubs
 8 10 31 305 16   38.1  0.302  1.192  0.005 1601.  398.    -64.9 0.2940 0.72 0.30 2.60  29.0 15.0 297.1 2.0 0 0.00 52. 1010. 3 NAD-SFC NoSubs
 8 10 31 305 17  -18.6  0.342 -9.000 -9.000 -999.  480.    193.5 0.2470 0.72 0.52 3.60  41.0 15.0 295.9 2.0 0 0.00 58. 1009. 3 NAD-SFC NoSubs
 8 10 31 305 18  -34.7  0.338 -9.000 -9.000 -999.  471.     99.7 0.2470 0.72 1.00 3.60  59.0 15.0 295.0 2.0 0 0.00 62. 1009. 3 NAD-SFC NoSubs
 8 10 31 305 19  -21.8  0.229 -9.000 -9.000 -999.  269.     49.4 0.2090 0.72 1.00 2.60  66.0 15.0 294.8 2.0 0 0.00 61. 1009. 3 NAD-SFC NoSubs
 8 10 31 305 20   -1.4  0.079 -9.000 -9.000 -999.   79.     30.8 0.1970 0.72 1.00 0.50 125.0 15.0 294.2 2.0 0 0.00 63. 1009. 3 NAD-SFC NoSubs
 8 10 31 305 21   -1.4  0.079 -9.000 -9.000 -999.   53.     30.8 0.1900 0.72 1.00 0.50 187.0 15.0 293.8 2.0 0 0.00 65. 1010. 3 NAD-SFC NoSubs
 8 10 31 305 22   -1.4  0.078 -9.000 -9.000 -999.   53.     30.7 0.1810 0.72 1.00 0.50 170.0 15.0 293.4 2.0 0 0.00 67. 1010. 3 NAD-SFC NoSubs
 8 10 31 305 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 293.1 2.0 0 0.00 67. 1010. 3 NAD-SFC NoSubs
 8 10 31 305 24   -1.5  0.081 -9.000 -9.000 -999.   56.     31.4 0.2470 0.72 1.00 0.50  50.0 15.0 292.9 2.0 0 0.00 68. 1010. 3 NAD-SFC NoSubs
 8 11  1 306  1   -1.5  0.081 -9.000 -9.000 -999.   56.     31.4 0.2470 0.72 1.00 0.50  34.0 15.0 292.5 2.0 0 0.00 69. 1010. 3 NAD-SFC NoSubs
 8 11  1 306  2   -1.6  0.083 -9.000 -9.000 -999.   57.     31.7 0.2940 0.72 1.00 0.50  22.0 15.0 292.2 2.0 0 0.00 70. 1010. 3 NAD-SFC NoSubs
 8 11  1 306  3   -1.5  0.081 -9.000 -9.000 -999.   56.     31.4 0.2470 0.72 1.00 0.50  41.0 15.0 292.0 2.0 0 0.00 71. 1010. 3 NAD-SFC NoSubs
 8 11  1 306  4   -3.7  0.098 -9.000 -9.000 -999.   74.     22.9 0.2470 0.72 1.00 1.00  56.0 15.0 291.8 2.0 0 0.00 72. 1010. 3 NAD-SFC NoSubs
 8 11  1 306  5   -7.1  0.128 -9.000 -9.000 -999.  109.     26.5 0.2090 0.72 1.00 1.50  77.0 15.0 291.4 2.0 0 0.00 72. 1010. 3 NAD-SFC NoSubs
 8 11  1 306  6  -14.2  0.182 -9.000 -9.000 -999.  187.     38.5 0.2130 0.72 1.00 2.10  91.0 15.0 291.2 2.0 0 0.00 72. 1010. 3 NAD-SFC NoSubs
 8 11  1 306  7  -22.0  0.230 -9.000 -9.000 -999.  265.     49.9 0.2130 0.72 0.71 2.60  96.0 15.0 291.1 2.0 0 0.00 71. 1010. 3 NAD-SFC NoSubs
 8 11  1 306  8   16.0  0.267  0.313  0.005   68.  331.   -106.5 0.2130 0.72 0.36 2.60 111.0 15.0 291.1 2.0 0 0.00 69. 1010. 3 NAD-SFC NoSubs
 8 11  1 306  9   64.0  0.250  0.827  0.005  318.  300.    -21.9 0.2130 0.72 0.25 2.10 116.0 15.0 291.6 2.0 0 0.00 67. 1010. 3 NAD-SFC NoSubs
 8 11  1 306 10  102.6  0.205  1.249  0.005  684.  223.     -7.5 0.1970 0.72 0.22 1.50 128.0 15.0 293.2 2.0 0 0.00 62. 1009. 3 NAD-SFC NoSubs
 8 11  1 306 11  128.0  0.210  1.530  0.005 1010.  230.     -6.5 0.1970 0.72 0.20 1.50 136.0 15.0 295.1 2.0 0 0.00 54. 1009. 3 NAD-SFC NoSubs
 8 11  1 306 12  138.5  0.164  1.663  0.005 1195.  160.     -2.9 0.1970 0.72 0.20 1.00 133.0 15.0 296.0 2.0 0 0.00 51. 1008. 3 NAD-SFC NoSubs
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8	11	1	306	13	134.1	0.109	1.713	0.005	1349.	87.	-1.0	0.2090	0.72	0.20	0.50	69.0	15.0	296.5	2.0	0	0.00	51.	1007.	3	NAD-SFC	NoSubs
8	11	1	306	14	114.2	0.168	1.665	0.005	1453.	165.	-3.7	0.2470	0.72	0.21	1.00	32.0	15.0	296.8	2.0	0	0.00	54.	1007.	4	NAD-SFC	NoSubs
8	11	1	306	15	81.7	0.167	1.513	0.005	1523.	164.	-5.1	0.2940	0.72	0.23	1.00	18.0	15.0	296.6	2.0	0	0.00	56.	1006.	4	NAD-SFC	NoSubs
8	11	1	306	16	37.4	0.099	1.174	0.005	1553.	76.	-2.3	0.2930	0.72	0.31	0.50	350.0	15.0	296.1	2.0	0	0.00	58.	1006.	4	NAD-SFC	NoSubs
8	11	1	306	17	-2.5	0.091	-9.000	-9.000	-999.	66.	27.6	0.2720	0.72	0.53	1.00	302.0	15.0	295.5	2.0	0	0.00	61.	1006.	4	NAD-SFC	NoSubs
8	11	1	306	18	-13.9	0.183	-9.000	-9.000	-999.	189.	39.9	0.2160	0.72	1.00	2.10	282.0	15.0	294.9	2.0	0	0.00	65.	1006.	4	NAD-SFC	NoSubs
8	11	1	306	19	-28.6	0.278	-9.000	-9.000	-999.	352.	67.4	0.2160	0.72	1.00	3.10	271.0	15.0	293.8	2.0	0	0.00	71.	1006.	3	NAD-SFC	NoSubs
8	11	1	306	20	-32.8	0.317	-9.000	-9.000	-999.	428.	87.1	0.1950	0.72	1.00	3.60	239.0	15.0	292.4	2.0	0	0.00	77.	1006.	3	NAD-SFC	NoSubs
8	11	1	306	21	-21.0	0.223	-9.000	-9.000	-999.	257.	47.4	0.1900	0.72	1.00	2.60	208.0	15.0	291.4	2.0	0	0.00	80.	1006.	3	NAD-SFC	NoSubs
8	11	1	306	22	-13.2	0.175	-9.000	-9.000	-999.	176.	36.3	0.1810	0.72	1.00	2.10	150.0	15.0	290.9	2.0	0	0.00	80.	1007.	3	NAD-SFC	NoSubs
8	11	1	306	23	-27.2	0.272	-9.000	-9.000	-999.	340.	66.2	0.1970	0.72	1.00	3.10	125.0	15.0	291.0	2.0	0	0.00	78.	1007.	4	NAD-SFC	NoSubs
8	11	1	306	24	-21.0	0.225	-9.000	-9.000	-999.	258.	49.0	0.1970	0.72	1.00	2.60	130.0	15.0	291.0	2.0	0	0.00	78.	1007.	4	NAD-SFC	NoSubs
8	11	2	307	1	-6.4	0.123	-9.000	-9.000	-999.	109.	26.3	0.1810	0.72	1.00	1.50	172.0	15.0	290.8	2.0	0	0.00	79.	1007.	5	NAD-SFC	NoSubs
8	11	2	307	2	-20.7	0.223	-9.000	-9.000	-999.	253.	48.3	0.1900	0.72	1.00	2.60	198.0	15.0	290.0	2.0	0	0.00	82.	1007.	4	NAD-SFC	NoSubs
8	11	2	307	3	-20.9	0.225	-9.000	-9.000	-999.	256.	48.7	0.1950	0.72	1.00	2.60	218.0	15.0	289.1	2.0	0	0.00	87.	1007.	4	NAD-SFC	NoSubs
8	11	2	307	4	-3.4	0.094	-9.000	-9.000	-999.	82.	22.0	0.1950	0.72	1.00	1.00	236.0	15.0	288.6	2.0	0	0.00	89.	1007.	4	NAD-SFC	NoSubs
8	11	2	307	5	-3.9	0.101	-9.000	-9.000	-999.	77.	23.7	0.2940	0.72	1.00	1.00	12.0	15.0	288.2	2.0	0	0.00	90.	1007.	4	NAD-SFC	NoSubs
8	11	2	307	6	-25.4	0.252	-9.000	-9.000	-999.	304.	56.8	0.2940	0.72	1.00	2.60	14.0	15.0	287.9	2.0	0	0.00	93.	1008.	4	NAD-SFC	NoSubs
8	11	2	307	7	-30.5	0.303	-9.000	-9.000	-999.	401.	82.5	0.2930	0.72	0.72	3.10	358.0	15.0	287.4	2.0	0	0.00	96.	1008.	4	NAD-SFC	NoSubs
8	11	2	307	8	15.0	0.332	0.315	0.005	75.	460.	-220.5	0.2930	0.72	0.37	3.10	340.0	15.0	287.1	2.0	0	0.00	95.	1008.	4	NAD-SFC	NoSubs
8	11	2	307	9	62.0	0.444	0.814	0.005	312.	709.	-126.5	0.2720	0.72	0.25	4.10	320.0	15.0	288.5	2.0	0	0.00	78.	1009.	4	NAD-SFC	NoSubs
8	11	2	307	10	100.2	0.366	1.272	0.005	740.	535.	-43.9	0.2720	0.72	0.22	3.10	324.0	15.0	289.8	2.0	0	0.00	70.	1008.	3	NAD-SFC	NoSubs
8	11	2	307	11	125.0	0.327	1.456	0.005	888.	449.	-25.1	0.2720	0.72	0.21	2.60	321.0	15.0	290.5	2.0	0	0.00	66.	1008.	3	NAD-SFC	NoSubs
8	11	2	307	12	135.4	0.283	1.570	0.005	1027.	363.	-15.1	0.2720	0.72	0.20	2.10	320.0	15.0	291.4	2.0	0	0.00	61.	1007.	3	NAD-SFC	NoSubs
8	11	2	307	13	129.8	0.282	1.605	0.005	1146.	360.	-15.5	0.2720	0.72	0.20	2.10	323.0	15.0	292.0	2.0	0	0.00	58.	1007.	4	NAD-SFC	NoSubs
8	11	2	307	14	108.1	0.282	1.549	0.005	1236.	359.	-18.6	0.2930	0.72	0.21	2.10	335.0	15.0	292.4	2.0	0	0.00	55.	1006.	5	NAD-SFC	NoSubs
8	11	2	307	15	78.9	0.319	1.418	0.005	1298.	433.	-36.9	0.2930	0.72	0.24	2.60	341.0	15.0	292.6	2.0	0	0.00	54.	1005.	4	NAD-SFC	NoSubs
8	11	2	307	16	34.8	0.346	1.088	0.005	1324.	488.	-106.5	0.2930	0.72	0.31	3.10	352.0	15.0	292.4	2.0	0	0.00	57.	1005.	4	NAD-SFC	NoSubs
8	11	2	307	17	-23.5	0.358	-9.000	-9.000	-999.	514.	174.7	0.2930	0.72	0.54	3.60	359.0	15.0	291.8	2.0	0	0.00	65.	1005.	3	NAD-SFC	NoSubs
8	11	2	307	18	-35.6	0.355	-9.000	-9.000	-999.	508.	112.9	0.2940	0.72	1.00	3.60	4.0	15.0	290.6	2.0	0	0.00	70.	1005.	4	NAD-SFC	NoSubs
8	11	2	307	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	289.8	2.0	0	0.00	73.	1005.	5	NAD-SFC	NoSubs
8	11	2	307	20	-7.6	0.140	-9.000	-9.000	-999.	126.	32.3	0.2940	0.72	1.00	1.50	10.0	15.0	289.1	2.0	0	0.00	76.	1005.	6	NAD-SFC	NoSubs
8	11	2	307	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	288.8	2.0	0	0.00	79.	1005.	7	NAD-SFC	NoSubs
8	11	2	307	22	-1.1	0.071	-9.000	-9.000	-999.	46.	28.5	0.1750	0.72	1.00	0.50	266.0	15.0	288.4	2.0	0	0.00	81.	1006.	7	NAD-SFC	NoSubs
8	11	2	307	23	-13.7	0.184	-9.000	-9.000	-999.	189.	40.5	0.2160	0.72	1.00	2.10	277.0	15.0	288.0	2.0	0	0.00	84.	1005.	5	NAD-SFC	NoSubs
8	11	2	307	24	-28.2	0.278	-9.000	-9.000	-999.	352.	68.5	0.2160	0.72	1.00	3.10	294.0	15.0	287.0	2.0	0	0.00	88.	1005.	4	NAD-SFC	NoSubs
8	11	3	308	1	-21.4	0.231	-9.000	-9.000	-999.	268.	51.7	0.2160	0.72	1.00	2.60	289.0	15.0	286.1	2.0	0	0.00	92.	1005.	5	NAD-SFC	NoSubs
8	11	3	308	2	-17.6	0.233	-9.000	-9.000	-999.	270.	64.6	0.2160	0.72	1.00	2.60	283.0	15.0	285.5	2.0	0	0.00	94.	1006.	8	NAD-SFC	NoSubs
8	11	3	308	3	-13.0	0.235	-9.000	-9.000	-999.	273.	89.1	0.2160	0.72	1.00	2.60	288.0	15.0	285.2	2.0	0	0.00	96.	1006.	10	NAD-SFC	NoSubs
8	11	3	308	4	-16.7	0.301	-9.000	-9.000	-999.	396.	146.1	0.2720	0.72	1.00	3.10	302.0	15.0	285.1	2.0	0	0.00	96.	1006.	10	NAD-SFC	NoSubs
8	11	3	308	5	-19.5	0.351	-9.000	-9.000	-999.	500.	199.4	0.2720	0.72	1.00	3.60	300.0	15.0	285.1	2.0	0	0.00	95.	1006.	10	NAD-SFC	NoSubs
8	11	3	308	6	-18.3	0.330	-9.000	-9.000	-999.	455.	175.7	0.2160	0.72	1.00	3.60	292.0	15.0	285.4	2.0	0	0.00	93.	1006.	10	NAD-SFC	NoSubs
8	11	3	308	7	-18.2	0.330	-9.000	-9.000	-999.	454.	176.4	0.2160	0.72	0.73	3.60	295.0	15.0	285.5	2.0	0	0.25	92.	1006.	10	NAD-SFC	NoSubs
8	11	3	308	8	-1.5	0.314	-9.000	-9.000	-999.	423.	1844.7	0.2720	0.72	0.37	3.10	300.0	15.0	285.5	2.0	0	0.00	91.	1007.	10	NAD-SFC	NoSubs
8	11	3	308	9	11.5	0.277	0.367	0.005	154.	351.	-166.6	0.2720	0.72	0.26	2.60	302.0	15.0	285.8	2.0	0	0.00	88.	1006.	10	NAD-SFC	NoSubs
8	11	3	308	10	21.1	0.229	0.532	0.005	256.	264.	-51.0	0.2160	0.72	0.22	2.10	296.0	15.0	286.0	2.0	0	0.00	85.	1006.	10	NAD-SFC	NoSubs
8	11	3	308	11	121.5	-9.000	-9.000	-9.000	499.	-999.	-99999.0	0.2235	0.72	0.21	0.00	0.0	15.0	286.6	2.0	0	0.00	83.	1006.	4	NAD-SFC	NoSubs
8	11	3	308	12	133.0	0.105	1.367	0.005	689.	82.	-1.0	0.1810	0.72	0.20	0.50	176.0	15.0	287.8	2.0	0	0.00	78.	1005.	3	NAD-SFC	NoSubs
8	11	3	308	13	128.7	0.208	1.437	0.005	826.	228.	-6.3	0.1900	0.72	0.20	1.50	192.0	15.0	288.8	2.0	0	0.00	73.	1004.	3	NAD-SFC	NoSubs
8	11	3	308	14	109.1	0.158	1.415	0.005	928.	151.	-3.2	0.1900	0.72	0.21	1.00	184.0	15.0	289.8	2.0	0	0.00	66.	1002.	2	NAD-SFC	NoSubs
8	11	3	308	15	77.1	0.098	1.293	0.006	1002.	74.	-1.1	0.1810	0.72	0.24	0.50	150.0	15.0	290.5	2.0	0	0.00	61.	1001.	3	NAD-SFC	NoSubs
8	11	3	308	16	32.3	0.138	0.980	0.006	1038.	123.	-7.2	0.1970	0.72	0.31	1.00	124.0	15.0	290.8	2.0	0	0.00	61.	1000.	3	NAD-SFC	NoSubs
8	11	3	308	17	-5.4	0.123	-9.000	-9.000	-999.	104.	31.0	0.1810	0.72	0.54	1.50	155.0	15.0	290.5	2.0	0	0.00	63.	1000.	3	NAD-SFC	NoSubs
8	11	3	308	18	-13.2	0.177	-9.000	-9.000	-999.	179.	37.7	0.1900	0.72	1.00	2.10	205.0	15.0	290.2	2.0	0	0.00	65.	1001.	4	NAD-SFC	NoSubs
8	11	3	308	19	-13.3	0.178	-9.000	-9.000	-999.	181.	38.0	0.1950	0.72	1.00	2.10	236.0	15.0	290.0	2.0	0	0.00	67.	1001.	4	NAD-SFC	NoSubs
8	11	3	308	20	-13.2	0.184	-9.000	-9.000	-999.	190.	42.2	0.2160	0.72	1.00	2.10	286.0	15.0	289.2	2.0	0	0.00	71.	1002.	6	NAD-SFC	NoSubs
8	11	3	308	21	-6.1	0.143	-9.000	-9.000	-999.	130.	42.8	0.2930	0.72	1.00	1.50	348.0	15.0	288.5	2.0	0	0.00	77.	1002.	10	NAD-SFC	NoSubs
8	11	3	308	22	-21.0	0.229	-9.000	-9.000	-999.	263.	51.2	0.2090	0.72	1.00	2.60	87.0	15.0	287.9	2.0	0	0.25	83.	1002.	5	NAD-SFC	NoSubs
8	11	3	308	23	-19.2	0.232	-9.000	-9.000	-999.	267.	57.9	0.2130	0.72	1.00	2.60	107.0	15.0	287.8	2.0	0	0.00	85.	1003.	7	NAD-SFC	NoSubs
8	11	3	308	24	-19.2	0.232	-9.000	-9.000	-999.	267.	57.8	0.2130	0.72	1.00	2.60	118.0	15.0	287.5	2.0	0	0.00	87.	1002.	7	NAD-SFC	NoSubs
8	11	4	309	1	-6.0	0.129	-9.000	-9.000	-999.	116.	31.5	0.2130	0.72	1.00	1.50	119.0	15.0	287.4	2.0	0	0.00	88.	1002.	8	NAD-SFC	NoSubs
8	11	4	309	2	-1.4	0.078	-9.000	-9.000	-999.	53.	30.4	0.2160	0.72	1.00	0.50	270.0	15.0	287.0	2.0	0	0.00	90.	1003.	5	NAD-SFC	NoSubs
8	11	4	309	3	-33.0	0.326	-9.000	-9.000	-999.	446.	93.4	0.2160	0.72	1.00	3.60	279.0	15.0	286.2	2.0	0	0.00	92.	1003.	4	NAD-SFC	NoSubs
8	11	4	309	4	-42.8	0.420	-9.000	-9.000	-999.	653.	155.0	0.2160	0.72	1.00	4.60	290.0	15.0	285.2	2.0	0	0.00	92.	1003.	4	NAD-SFC	NoSubs
8	11	4	309	5	-38.1	0.373	-9.000	-9.000	-999.	548.	121.7	0.2160	0.72	1.00	4.10	297.0	15.0	284.5	2.0	0	0.00	90.	1004.	4	NAD-SFC	NoSubs
8	11	4	309	6	-40.7	0.397	-9.000	-9.000	-999.	601.	138.0	0.2720	0.72	1.00	4.10	301.0	15.0	283.9	2.0	0	0.00	89.	1005.	4	NAD-SFC	NoSubs
8	11	4	309	7	-40.7	0.397	-9.000	-9.000	-999.	601.	138.1	0.2720	0.72	0.74	4.10	309.0	15.0	283.2	2.0	0	0.00	90.	1006.	4	NAD-SFC	NoSubs
8	11	4	309	8	12.1	0.467	0.294	0.005	75.	766.	-753.6	0.2720	0.72	0.37	4.60	317.0	15.0	283.8	2.0	0	0.00	90.	1007.	4	NAD-SFC	NoSubs
8	11	4	309	9	58.7	0.602	0.869	0.005	401.	1119.	-333.3	0.2930	0.72	0.26	5.70	335.0	15.0	285.6	2.0	0	0.00	81.	1007.	3	NAD-SFC	NoSubs
8	11	4	309	10	96.9	0.612	1.172	0.005	598.	1149.	-212.9	0.2930	0.72	0.22	5.70	330.0	15.0	286.8	2.0	0	0.00	71.	1008.	3	NAD-SFC	NoSubs
8	11	4	309	11	121.6	0.618	1.441	0.005	886.	1166.	-174.6	0.2930	0.72	0.21	5.70	332.0	15.0	287.4	2.0	0	0.00	65.	1008.	3	NAD-SFC	NoSubs
8	11	4	309	12	131.8	0.620	1.589	0.005	1096.	1173.	-162.9	0.2930	0.72	0.20	5.70	335.0	15.0	287.8	2.0	0	0.00	62.	1008.	3	NAD-SFC	NoSubs
8	11	4	309	13	122.5	0.654	1.616	0.005	1241.	1268.	-205.3	0.2720	0.72	0.20	6.20	329.0	15.0	288.2	2.0	0	0.00	60.	1008.	5	NAD-SFC	NoSubs
8	11	4	309	14	104.5	0.709	1.576	0.005	1348.	1431.	-306.6	0.2930	0.72	0.21	6.70	336.0	15.0	288.2	2.0	0	0.00	60.	1007.	5	NAD-SFC	NoSubs
8	11	4	309	15	75.1	0.751	1.429	0.005	1396.	1559.	-506.4	0.2930	0.72	0.24	7.20	340.0	15.0	288.1	2.0	0	0.00	61.	1007.	4	NAD-SFC	NoSubs
8	11	4	309	16	30.4	0.641	1.061	0.005	1414.	1250.	-780.0	0.2930	0.72	0.31	6.20	338.0	15.0	287.8	2.0	0	0.00	64.	1007.	3	NAD-SFC	NoSubs
8	11	4	309	17	-30.1	0.400	-9.000	-9.000	-999.	671.	190.9	0.2720	0.72	0.55	4.10	328.0	15.0	286.8	2.0	0	0.00	71.	1007.	3	NAD-SFC	NoSubs

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 8 11   4 309 18  -36.7  0.347 -9.000 -9.000 -999.  494.    101.9  0.2720  0.72  1.00   3.60  324.0  15.0  285.8  2.0   0   0.00   75.  1007.     3 NAD-SFC NoSubs
 8 11   4 309 19  -35.6  0.347 -9.000 -9.000 -999.  491.    105.5  0.2720  0.72  1.00   3.60  316.0  15.0  284.8  2.0   0   0.00   77.  1008.     4 NAD-SFC NoSubs
 8 11   4 309 20  -30.5  0.297 -9.000 -9.000 -999.  389.     77.1  0.2720  0.72  1.00   3.10  319.0  15.0  284.2  2.0   0   0.00   77.  1008.     4 NAD-SFC NoSubs
 8 11   4 309 21  -24.6  0.246 -9.000 -9.000 -999.  294.     54.6  0.2720  0.72  1.00   2.60  306.0  15.0  283.8  2.0   0   0.00   77.  1009.     4 NAD-SFC NoSubs
 8 11   4 309 22   -7.1  0.129 -9.000 -9.000 -999.  119.     26.9  0.2160  0.72  1.00   1.50  297.0  15.0  283.4  2.0   0   0.00   78.  1009.     4 NAD-SFC NoSubs
 8 11   4 309 23   -3.5  0.096 -9.000 -9.000 -999.   71.     22.4  0.2160  0.72  1.00   1.00  288.0  15.0  283.0  2.0   0   0.00   78.  1010.     4 NAD-SFC NoSubs
 8 11   4 309 24   -1.4  0.079 -9.000 -9.000 -999.   53.     31.0  0.1750  0.72  1.00   0.50  269.0  15.0  282.4  2.0   0   0.00   80.  1010.     3 NAD-SFC NoSubs
 8 11   5 310  1   -1.6  0.084 -9.000 -9.000 -999.   58.     32.0  0.2720  0.72  1.00   0.50  302.0  15.0  281.9  2.0   0   0.00   82.  1010.     3 NAD-SFC NoSubs
 8 11   5 310  2   -4.0  0.101 -9.000 -9.000 -999.   77.     23.3  0.2720  0.72  1.00   1.00  311.0  15.0  281.4  2.0   0   0.00   84.  1010.     3 NAD-SFC NoSubs
 8 11   5 310  3   -8.1  0.137 -9.000 -9.000 -999.  122.     28.6  0.2720  0.72  1.00   1.50  310.0  15.0  281.1  2.0   0   0.00   86.  1010.     3 NAD-SFC NoSubs
 8 11   5 310  4   -8.1  0.137 -9.000 -9.000 -999.  122.     28.6  0.2720  0.72  1.00   1.50  314.0  15.0  280.8  2.0   0   0.00   88.  1010.     3 NAD-SFC NoSubs
 8 11   5 310  5   -8.1  0.137 -9.000 -9.000 -999.  122.     28.5  0.2720  0.72  1.00   1.50  315.0  15.0  280.4  2.0   0   0.00   89.  1010.     3 NAD-SFC NoSubs
 8 11   5 310  6   -4.0  0.101 -9.000 -9.000 -999.   77.     23.3  0.2720  0.72  1.00   1.00  302.0  15.0  280.1  2.0   0   0.00   91.  1011.     3 NAD-SFC NoSubs
 8 11   5 310  7   -1.6  0.082 -9.000 -9.000 -999.   57.     31.8  0.2160  0.72  0.75   0.50  277.0  15.0  279.8  2.0   0   0.00   92.  1012.     2 NAD-SFC NoSubs
 8 11   5 310  8    7.4  0.072  0.219  0.006   51.   46.     -4.5  0.1750  0.72  0.38   0.50  242.0  15.0  279.8  2.0   0   0.00   91.  1012.     2 NAD-SFC NoSubs
 8 11   5 310  9   55.4 -9.000 -9.000 -9.000  264. -999. -99999.0  0.2235  0.72  0.26   0.00    0.0  15.0  281.6  2.0   0   0.00   81.  1013.     2 NAD-SFC NoSubs
 8 11   5 310 10   93.8  0.102  1.047  0.005  442.   78.     -1.0  0.1900  0.72  0.22   0.50  184.0  15.0  282.8  2.0   0   0.00   73.  1013.     2 NAD-SFC NoSubs
 8 11   5 310 11  118.8 -9.000 -9.000 -9.000  663. -999. -99999.0  0.2235  0.72  0.21   0.00    0.0  15.0  283.8  2.0   0   0.00   67.  1013.     2 NAD-SFC NoSubs
 8 11   5 310 12  129.3 -9.000 -9.000 -9.000  816. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  284.9  2.0   0   0.00   60.  1012.     2 NAD-SFC NoSubs
 8 11   5 310 13  125.0  0.173  1.483  0.007  942.  173.     -3.8  0.2720  0.72  0.20   1.00  307.0  15.0  286.1  2.0   0   0.00   53.  1012.     2 NAD-SFC NoSubs
 8 11   5 310 14  106.0  0.277  1.441  0.007 1019.  349.    -18.0  0.2720  0.72  0.21   2.10  317.0  15.0  287.0  2.0   0   0.00   48.  1011.     2 NAD-SFC NoSubs
 8 11   5 310 15   72.9  0.271  1.290  0.008 1064.  338.    -24.5  0.2930  0.72  0.24   2.10  335.0  15.0  287.6  2.0   0   0.00   45.  1011.     2 NAD-SFC NoSubs
 8 11   5 310 16   27.9  0.250  0.942  0.008 1080.  300.    -50.3  0.2930  0.72  0.32   2.10  344.0  15.0  287.8  2.0   0   0.00   44.  1011.     2 NAD-SFC NoSubs
 8 11   5 310 17   -3.4  0.097 -9.000 -9.000 -999.   95.     24.3  0.2940  0.72  0.56   1.00    9.0  15.0  287.5  2.0   0   0.00   49.  1011.     2 NAD-SFC NoSubs
 8 11   5 310 18   -1.5  0.081 -9.000 -9.000 -999.   56.     31.6  0.2130  0.72  1.00   0.50   96.0  15.0  286.6  2.0   0   0.00   53.  1011.     2 NAD-SFC NoSubs
 8 11   5 310 19   -1.5  0.080 -9.000 -9.000 -999.   54.     31.2  0.1810  0.72  1.00   0.50  155.0  15.0  285.5  2.0   0   0.00   59.  1011.     2 NAD-SFC NoSubs
 8 11   5 310 20   -6.9  0.124 -9.000 -9.000 -999.  104.     24.8  0.1810  0.72  1.00   1.50  157.0  15.0  284.6  2.0   0   0.00   64.  1012.     2 NAD-SFC NoSubs
 8 11   5 310 21  -21.2  0.220 -9.000 -9.000 -999.  247.     45.2  0.1810  0.72  1.00   2.60  170.0  15.0  284.0  2.0   0   0.00   66.  1012.     2 NAD-SFC NoSubs
 8 11   5 310 22  -21.2  0.220 -9.000 -9.000 -999.  247.     45.2  0.1810  0.72  1.00   2.60  175.0  15.0  283.5  2.0   0   0.00   66.  1013.     2 NAD-SFC NoSubs
 8 11   5 310 23  -13.6  0.174 -9.000 -9.000 -999.  175.     35.1  0.1810  0.72  1.00   2.10  161.0  15.0  282.9  2.0   0   0.00   68.  1013.     2 NAD-SFC NoSubs
 8 11   5 310 24   -7.1  0.126 -9.000 -9.000 -999.  108.     25.4  0.1970  0.72  1.00   1.50  123.0  15.0  282.2  2.0   0   0.00   71.  1013.     2 NAD-SFC NoSubs
 8 11   6 311  1   -7.4  0.128 -9.000 -9.000 -999.  111.     26.0  0.2130  0.72  1.00   1.50  100.0  15.0  281.8  2.0   0   0.00   75.  1013.     2 NAD-SFC NoSubs
 8 11   6 311  2   -3.7  0.097 -9.000 -9.000 -999.   73.     22.4  0.2130  0.72  1.00   1.00   97.0  15.0  281.4  2.0   0   0.00   78.  1013.     2 NAD-SFC NoSubs
 8 11   6 311  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  280.9  2.0   0   0.00   80.  1013.     2 NAD-SFC NoSubs
 8 11   6 311  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  280.5  2.0   0   0.00   82.  1013.     2 NAD-SFC NoSubs
 8 11   6 311  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  280.2  2.0   0   0.00   82.  1013.     2 NAD-SFC NoSubs
 8 11   6 311  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  280.1  2.0   0   0.00   82.  1014.     2 NAD-SFC NoSubs
 8 11   6 311  7   -1.5  0.081 -9.000 -9.000 -999.   55.     31.6  0.1900  0.72  0.77   0.50  199.0  15.0  279.9  2.0   0   0.00   81.  1014.     2 NAD-SFC NoSubs
 8 11   6 311  8    6.5  0.072  0.166  0.011   26.   46.     -5.2  0.1900  0.72  0.38   0.50  197.0  15.0  280.2  2.0   0   0.00   80.  1015.     2 NAD-SFC NoSubs
 8 11   6 311  9   54.5  0.093  0.618  0.009  156.   68.     -1.3  0.1750  0.72  0.26   0.50  265.0  15.0  283.0  2.0   0   0.00   65.  1015.     2 NAD-SFC NoSubs
 8 11   6 311 10   93.2 -9.000 -9.000 -9.000  355. -999. -99999.0  0.2235  0.72  0.22   0.00    0.0  15.0  285.0  2.0   0   0.00   60.  1015.     2 NAD-SFC NoSubs
 8 11   6 311 11  118.5 -9.000 -9.000 -9.000  485. -999. -99999.0  0.2235  0.72  0.21   0.00    0.0  15.0  287.0  2.0   0   0.00   52.  1015.     2 NAD-SFC NoSubs
 8 11   6 311 12  129.2 -9.000 -9.000 -9.000  588. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  288.6  2.0   0   0.00   47.  1014.     2 NAD-SFC NoSubs
 8 11   6 311 13  125.0  0.116  1.324  0.010  672.   95.     -1.1  0.2930  0.72  0.20   0.50  330.0  15.0  289.8  2.0   0   0.00   45.  1013.     2 NAD-SFC NoSubs
 8 11   6 311 14  106.0  0.111  1.287  0.010  728.   89.     -1.2  0.2720  0.72  0.21   0.50  329.0  15.0  290.5  2.0   0   0.00   45.  1013.     2 NAD-SFC NoSubs
 8 11   6 311 15   72.9  0.164  1.155  0.009  764.  160.     -5.5  0.2930  0.72  0.24   1.00  340.0  15.0  290.9  2.0   0   0.00   45.  1012.     2 NAD-SFC NoSubs
 8 11   6 311 16   28.0  0.194  0.844  0.009  777.  206.    -23.7  0.2930  0.72  0.32   1.50  353.0  15.0  290.9  2.0   0   0.00   46.  1012.     2 NAD-SFC NoSubs
 8 11   6 311 17   13.2 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.56   0.00    0.0  15.0  290.4  2.0   0   0.00   51.  1012.     2 NAD-SFC NoSubs
 8 11   6 311 18   -1.6  0.083 -9.000 -9.000 -999.   57.     31.8  0.2470  0.72  1.00   0.50   45.0  15.0  289.4  2.0   0   0.00   56.  1012.     2 NAD-SFC NoSubs
 8 11   6 311 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  288.2  2.0   0   0.00   62.  1012.     2 NAD-SFC NoSubs
 8 11   6 311 20   -1.5  0.080 -9.000 -9.000 -999.   55.     31.3  0.1950  0.72  1.00   0.50  231.0  15.0  287.2  2.0   0   0.00   67.  1012.     2 NAD-SFC NoSubs
 8 11   6 311 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  286.4  2.0   0   0.00   70.  1013.     2 NAD-SFC NoSubs
 8 11   6 311 22   -1.5  0.081 -9.000 -9.000 -999.   56.     31.6  0.2090  0.72  1.00   0.50   67.0  15.0  285.8  2.0   0   0.00   73.  1013.     2 NAD-SFC NoSubs
 8 11   6 311 23   -3.7  0.097 -9.000 -9.000 -999.   72.     22.3  0.2090  0.72  1.00   1.00   77.0  15.0  285.0  2.0   0   0.00   76.  1013.     2 NAD-SFC NoSubs
 8 11   6 311 24   -1.5  0.081 -9.000 -9.000 -999.   56.     31.6  0.2090  0.72  1.00   0.50   70.0  15.0  284.4  2.0   0   0.00   79.  1013.     2 NAD-SFC NoSubs
 8 11   7 312  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  283.9  2.0   0   0.00   81.  1012.     2 NAD-SFC NoSubs
 8 11   7 312  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  283.5  2.0   0   0.00   83.  1012.     2 NAD-SFC NoSubs
 8 11   7 312  3   -1.6  0.082 -9.000 -9.000 -999.   56.     31.7  0.2160  0.72  1.00   0.50  287.0  15.0  283.1  2.0   0   0.00   84.  1012.     2 NAD-SFC NoSubs
 8 11   7 312  4   -3.7  0.098 -9.000 -9.000 -999.   73.     22.5  0.2160  0.72  1.00   1.00  288.0  15.0  282.9  2.0   0   0.00   84.  1012.     2 NAD-SFC NoSubs
 8 11   7 312  5   -3.7  0.098 -9.000 -9.000 -999.   73.     22.5  0.2160  0.72  1.00   1.00  279.0  15.0  282.9  2.0   0   0.00   83.  1012.     2 NAD-SFC NoSubs
 8 11   7 312  6   -1.5  0.080 -9.000 -9.000 -999.   54.     31.3  0.1750  0.72  1.00   0.50  262.0  15.0  282.8  2.0   0   0.00   84.  1012.     2 NAD-SFC NoSubs
 8 11   7 312  7   -3.5  0.094 -9.000 -9.000 -999.   70.     21.7  0.1750  0.72  1.00   1.00  247.0  15.0  282.8  2.0   0   0.00   85.  1012.     2 NAD-SFC NoSubs
 8 11   7 312  8    6.0  0.070  0.163  0.014   26.   44.     -5.2  0.1750  0.72  0.39   0.50  243.0  15.0  282.8  2.0   0   0.00   86.  1012.     2 NAD-SFC NoSubs
 8 11   7 312  9   54.0  0.149  0.571  0.011  124.  138.     -5.5  0.2160  0.72  0.26   1.00  288.0  15.0  285.5  2.0   0   0.00   77.  1012.     2 NAD-SFC NoSubs
 8 11   7 312 10   92.7  0.167  0.902  0.010  286.  163.     -4.5  0.2720  0.72  0.22   1.00  304.0  15.0  287.6  2.0   0   0.00   70.  1012.     2 NAD-SFC NoSubs
 8 11   7 312 11  118.1  0.108  1.124  0.011  434.   85.     -1.0  0.2160  0.72  0.21   0.50  297.0  15.0  289.8  2.0   0   0.00   61.  1012.     2 NAD-SFC NoSubs
 8 11   7 312 12  128.9  0.114  1.238  0.010  530.   93.     -1.0  0.2720  0.72  0.20   0.50  318.0  15.0  291.2  2.0   0   0.00   52.  1010.     2 NAD-SFC NoSubs
 8 11   7 312 13  124.8  0.114  1.283  0.009  610.   92.     -1.1  0.2720  0.72  0.21   0.50  329.0  15.0  292.4  2.0   0   0.00   49.  1009.     2 NAD-SFC NoSubs
 8 11   7 312 14  105.9  0.224  1.254  0.008  671.  254.     -9.5  0.2930  0.72  0.21   1.50  347.0  15.0  293.1  2.0   0   0.00   48.  1009.     2 NAD-SFC NoSubs
 8 11   7 312 15   72.8  0.271  1.132  0.008  717.  338.    -24.6  0.2940  0.72  0.24   2.10    3.0  15.0  293.4  2.0   0   0.00   49.  1008.     2 NAD-SFC NoSubs
 8 11   7 312 16   28.0  0.250  0.829  0.008  733.  300.    -50.2  0.2940  0.72  0.32   2.10    8.0  15.0  293.4  2.0   0   0.00   53.  1008.     2 NAD-SFC NoSubs
 8 11   7 312 17  -14.7  0.202 -9.000 -9.000 -999.  219.     50.4  0.2940  0.72  0.57   2.10   28.0  15.0  292.8  2.0   0   0.00   57.  1007.     2 NAD-SFC NoSubs
 8 11   7 312 18   -3.8  0.099 -9.000 -9.000 -999.   80.     22.9  0.2470  0.72  1.00   1.00   42.0  15.0  291.6  2.0   0   0.00   61.  1008.     2 NAD-SFC NoSubs
 8 11   7 312 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  290.2  2.0   0   0.00   67.  1008.     2 NAD-SFC NoSubs
 8 11   7 312 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  289.0  2.0   0   0.00   73.  1008.     2 NAD-SFC NoSubs
 8 11   7 312 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  288.0  2.0   0   0.00   78.  1008.     2 NAD-SFC NoSubs
 8 11   7 312 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  287.1  2.0   0   0.00   82.  1008.     2 NAD-SFC NoSubs
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 8 11   7 312 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 286.4  2.0   0  0.00   85. 1008.    2 NAD-SFC NoSubs
 8 11   7 312 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 285.9  2.0   0  0.00   88. 1007.    2 NAD-SFC NoSubs
 8 11   8 313  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 285.4  2.0   0  0.00   89. 1007.    2 NAD-SFC NoSubs
 8 11   8 313  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 284.9  2.0   0  0.00   90. 1007.    2 NAD-SFC NoSubs
 8 11   8 313  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 284.5  2.0   0  0.00   90. 1007.    2 NAD-SFC NoSubs
 8 11   8 313  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 284.1  2.0   0  0.00   90. 1006.    2 NAD-SFC NoSubs
 8 11   8 313  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 283.8  2.0   0  0.00   91. 1006.    2 NAD-SFC NoSubs
 8 11   8 313  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 283.0  2.0   0  0.00   94. 1007.    2 NAD-SFC NoSubs
 8 11   8 313  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 282.0  2.0   0  0.00   96. 1007.    2 NAD-SFC NoSubs
 8 11   8 313  8    4.7 -9.000 -9.000 -9.000   19. -999. -99999.0 0.2235  0.72  0.39  0.00   0.0  15.0 281.4  2.0   0  0.00   98. 1007.    2 NAD-SFC NoSubs
 8 11   8 313  9   52.2 -9.000 -9.000 -9.000  120. -999. -99999.0 0.2235  0.72  0.26  0.00   0.0  15.0 283.1  2.0   0  0.00   90. 1006.    2 NAD-SFC NoSubs
 8 11   8 313 10   91.2  0.104  0.892  0.011  279.   81.     -1.1 0.2160  0.72  0.22  0.50 292.0  15.0 286.2  2.0   0  0.00   74. 1006.    2 NAD-SFC NoSubs
 8 11   8 313 11  116.3  0.164  1.111  0.011  423.  159.     -3.4 0.2160  0.72  0.21  1.00 271.0  15.0 287.8  2.0   0  0.00   67. 1006.    2 NAD-SFC NoSubs
 8 11   8 313 12  127.0  0.165  1.220  0.010  513.  161.     -3.2 0.2160  0.72  0.20  1.00 288.0  15.0 289.0  2.0   0  0.00   63. 1005.    2 NAD-SFC NoSubs
 8 11   8 313 13  122.8  0.173  1.263  0.009  587.  173.     -3.8 0.2720  0.72  0.21  1.00 313.0  15.0 290.0  2.0   0  0.00   60. 1004.    2 NAD-SFC NoSubs
 8 11   8 313 14  103.8  0.172  1.231  0.008  644.  172.     -4.4 0.2930  0.72  0.22  1.00 332.0  15.0 290.5  2.0   0  0.00   58. 1003.    2 NAD-SFC NoSubs
 8 11   8 313 15   70.7  0.164  1.108  0.007  687.  160.     -5.6 0.2930  0.72  0.24  1.00 332.0  15.0 290.8  2.0   0  0.00   59. 1002.    2 NAD-SFC NoSubs
 8 11   8 313 16   26.0 -9.000 -9.000 -9.000  703. -999. -99999.0 0.2235  0.72  0.32  0.00   0.0  15.0 290.5  2.0   0  0.00   62. 1002.    2 NAD-SFC NoSubs
 8 11   8 313 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  0.58  0.00   0.0  15.0 289.9  2.0   0  0.00   65. 1001.    2 NAD-SFC NoSubs
 8 11   8 313 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 289.2  2.0   0  0.00   69. 1001.    2 NAD-SFC NoSubs
 8 11   8 313 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 288.6  2.0   0  0.00   73. 1001.    2 NAD-SFC NoSubs
 8 11   8 313 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 288.2  2.0   0  0.00   74. 1001.    3 NAD-SFC NoSubs
 8 11   8 313 21   -7.9  0.137 -9.000 -9.000 -999.  121.     28.9 0.2720  0.72  1.00  1.50 308.0  15.0 288.0  2.0   0  0.00   74. 1002.    3 NAD-SFC NoSubs
 8 11   8 313 22  -41.6  0.397 -9.000 -9.000 -999.  600.    134.3 0.2720  0.72  1.00  4.10 310.0  15.0 287.2  2.0   0  0.00   76. 1002.    3 NAD-SFC NoSubs
 8 11   8 313 23  -16.6  0.301 -9.000 -9.000 -999.  401.    146.8 0.2720  0.72  1.00  3.10 307.0  15.0 286.5  2.0   0  0.00   86. 1002.   10 NAD-SFC NoSubs
 8 11   8 313 24  -16.6  0.301 -9.000 -9.000 -999.  396.    146.8 0.2720  0.72  1.00  3.10 310.0  15.0 286.4  2.0   0  1.27   95. 1002.   10 NAD-SFC NoSubs
 8 11   9 314  1  -19.3  0.351 -9.000 -9.000 -999.  500.    200.6 0.2720  0.72  1.00  3.60 312.0  15.0 286.8  2.0   0  1.02   96. 1001.   10 NAD-SFC NoSubs
 8 11   9 314  2  -35.0  0.422 -9.000 -9.000 -999.  657.    191.5 0.2160  0.72  1.00  4.60 295.0  15.0 286.8  2.0   0  0.51   93. 1001.    7 NAD-SFC NoSubs
 8 11   9 314  3  -35.2  0.471 -9.000 -9.000 -999.  775.    264.3 0.2160  0.72  1.00  5.10 288.0  15.0 286.2  2.0   0  0.00   88. 1001.    8 NAD-SFC NoSubs
 8 11   9 314  4  -45.1  0.468 -9.000 -9.000 -999.  769.    203.1 0.2160  0.72  1.00  5.10 288.0  15.0 286.0  2.0   0  0.00   84. 1000.    5 NAD-SFC NoSubs
 8 11   9 314  5  -45.3  0.468 -9.000 -9.000 -999.  769.    202.1 0.2160  0.72  1.00  5.10 294.0  15.0 284.8  2.0   0  0.00   86. 1001.    5 NAD-SFC NoSubs
 8 11   9 314  6  -35.4  0.422 -9.000 -9.000 -999.  660.    189.4 0.2160  0.72  1.00  4.60 286.0  15.0 283.8  2.0   0  0.00   87. 1001.    7 NAD-SFC NoSubs
 8 11   9 314  7  -41.0  0.421 -9.000 -9.000 -999.  655.    162.1 0.2160  0.72  1.00  4.60 293.0  15.0 283.2  2.0   0  0.00   88. 1002.    5 NAD-SFC NoSubs
 8 11   9 314  8    8.2  0.394  0.279  0.005   94.  595.   -664.0 0.2160  0.72  0.39  4.10 286.0  15.0 283.2  2.0   0  0.00   87. 1002.    6 NAD-SFC NoSubs
 8 11   9 314  9   44.5  0.634  0.895  0.005  576. 1212.   -512.7 0.2720  0.72  0.27  6.20 313.0  15.0 284.9  2.0   0  0.00   79. 1002.    7 NAD-SFC NoSubs
 8 11   9 314 10   74.4  0.690  1.274  0.005  993. 1373.   -394.1 0.2720  0.72  0.22  6.70 324.0  15.0 285.8  2.0   0  0.00   74. 1001.    7 NAD-SFC NoSubs
 8 11   9 314 11   25.6  0.689  0.897  0.005 1004. 1374.  -1141.1 0.2930  0.72  0.21  6.70 332.0  15.0 286.2  2.0   0  0.00   74. 1001.   10 NAD-SFC NoSubs
 8 11   9 314 12   28.2  0.726  0.929  0.005 1016. 1484.  -1213.0 0.2720  0.72  0.20  7.20 326.0  15.0 286.2  2.0   0  0.00   74. 1001.   10 NAD-SFC NoSubs
 8 11   9 314 13   27.2  0.726  0.921  0.005 1027. 1485.  -1258.0 0.2720  0.72  0.21  7.20 326.0  15.0 286.5  2.0   0  0.00   72. 1001.   10 NAD-SFC NoSubs
 8 11   9 314 14   83.5  0.657  1.353  0.005 1061. 1286.   -302.6 0.2930  0.72  0.22  6.20 342.0  15.0 286.4  2.0   0  0.00   74. 1001.    7 NAD-SFC NoSubs
 8 11   9 314 15   57.7  0.497  1.204  0.006 1083.  868.   -189.9 0.2930  0.72  0.24  4.60 346.0  15.0 286.2  2.0   0  0.00   77. 1002.    7 NAD-SFC NoSubs
 8 11   9 314 16   22.9 -9.000 -9.000 -9.000 1092. -999. -99999.0 0.2235  0.72  0.33  0.00   0.0  15.0 286.0  2.0   0  0.00   82. 1002.    7 NAD-SFC NoSubs
 8 11   9 314 17   -3.3 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  0.58  0.00   0.0  15.0 285.6  2.0   0  0.00   84. 1002.    5 NAD-SFC NoSubs
 8 11   9 314 18  -29.4  0.304 -9.000 -9.000 -999.  402.    85.2 0.2930  0.72  1.00  3.10 351.0  15.0 285.4  2.0   0  0.00   84. 1003.    5 NAD-SFC NoSubs
 8 11   9 314 19  -25.3  0.252 -9.000 -9.000 -999.  304.    56.4 0.2930  0.72  1.00  2.60 334.0  15.0 285.2  2.0   0  0.00   84. 1003.    4 NAD-SFC NoSubs
 8 11   9 314 20  -24.4  0.246 -9.000 -9.000 -999.  293.    54.8 0.2720  0.72  1.00  2.60 318.0  15.0 285.2  2.0   0  0.00   85. 1004.    4 NAD-SFC NoSubs
 8 11   9 314 21  -23.9  0.247 -9.000 -9.000 -999.  294.    56.4 0.2720  0.72  1.00  2.60 306.0  15.0 285.1  2.0   0  0.00   85. 1004.    5 NAD-SFC NoSubs
 8 11   9 314 22   -5.3  0.131 -9.000 -9.000 -999.  121.    37.7 0.2160  0.72  1.00  1.50 296.0  15.0 285.0  2.0   0  0.00   84. 1005.   10 NAD-SFC NoSubs
 8 11   9 314 23   -5.3  0.131 -9.000 -9.000 -999.  113.    37.7 0.2160  0.72  1.00  1.50 294.0  15.0 284.9  2.0   0  0.00   85. 1005.   10 NAD-SFC NoSubs
 8 11   9 314 24   -5.3  0.131 -9.000 -9.000 -999.  113.    37.6 0.2160  0.72  1.00  1.50 288.0  15.0 284.8  2.0   0  0.00   86. 1005.   10 NAD-SFC NoSubs
 8 11  10 315  1   -5.3  0.130 -9.000 -9.000 -999.  113.    37.6 0.2160  0.72  1.00  1.50 291.0  15.0 284.6  2.0   0  0.00   85. 1005.   10 NAD-SFC NoSubs
 8 11  10 315  2   -5.9  0.139 -9.000 -9.000 -999.  125.    41.2 0.2720  0.72  1.00  1.50 302.0  15.0 284.6  2.0   0  0.00   84. 1006.   10 NAD-SFC NoSubs
 8 11  10 315  3   -5.9  0.139 -9.000 -9.000 -999.  125.    41.2 0.2720  0.72  1.00  1.50 301.0  15.0 284.6  2.0   0  0.00   83. 1006.   10 NAD-SFC NoSubs
 8 11  10 315  4  -11.1  0.200 -9.000 -9.000 -999.  215.    64.5 0.2720  0.72  1.00  2.10 311.0  15.0 284.5  2.0   0  0.00   84. 1006.   10 NAD-SFC NoSubs
 8 11  10 315  5  -23.9  0.247 -9.000 -9.000 -999.  294.    56.3 0.2720  0.72  1.00  2.60 308.0  15.0 284.4  2.0   0  0.00   85. 1006.    5 NAD-SFC NoSubs
 8 11  10 315  6  -24.5  0.246 -9.000 -9.000 -999.  293.    54.7 0.2720  0.72  1.00  2.60 311.0  15.0 284.2  2.0   0  0.00   86. 1007.    4 NAD-SFC NoSubs
 8 11  10 315  7  -30.5  0.297 -9.000 -9.000 -999.  388.    77.0 0.2720  0.72  1.00  3.10 317.0  15.0 284.0  2.0   0  0.00   89. 1008.    4 NAD-SFC NoSubs
 8 11  10 315  8    6.4  0.324  0.320  0.005  184.  442.  -477.3 0.2930  0.72  0.40  3.10 330.0  15.0 283.6  2.0   0  0.00   91. 1008.    4 NAD-SFC NoSubs
 8 11  10 315  9   51.3  0.354  0.868  0.005  458.  505.   -77.9 0.2930  0.72  0.27  3.10 341.0  15.0 283.2  2.0   0  0.00   92. 1009.    3 NAD-SFC NoSubs
 8 11  10 315 10   89.1  0.322  1.167  0.005  643.  440.   -33.8 0.2930  0.72  0.22  2.60 342.0  15.0 283.4  2.0   0  0.00   91. 1009.    3 NAD-SFC NoSubs
 8 11  10 315 11  113.7  0.283  1.356  0.006  791.  362.   -18.0 0.2930  0.72  0.21  2.10 343.0  15.0 283.8  2.0   0  0.00   89. 1009.    3 NAD-SFC NoSubs
 8 11  10 315 12  124.2  0.176  1.471  0.007  924.  183.    -4.0 0.2930  0.72  0.20  1.00 330.0  15.0 284.8  2.0   0  0.00   83. 1009.    3 NAD-SFC NoSubs
 8 11  10 315 13  119.9  0.113  1.501  0.008 1014.   93.    -1.1 0.2720  0.72  0.21  0.50 326.0  15.0 285.2  2.0   0  0.00   78. 1008.    3 NAD-SFC NoSubs
 8 11  10 315 14  101.2  0.171  1.445  0.008 1073.  170.    -4.5 0.2930  0.72  0.22  1.00 357.0  15.0 286.0  2.0   0  0.00   74. 1008.    3 NAD-SFC NoSubs
 8 11  10 315 15   68.6  0.213  1.284  0.008 1111.  236.   -12.7 0.2940  0.72  0.24  1.50   4.0  15.0 286.8  2.0   0  0.00   70. 1008.    3 NAD-SFC NoSubs
 8 11  10 315 16   23.4  0.144  0.902  0.008 1125.  133.   -11.6 0.2940  0.72  0.33  1.00   6.0  15.0 288.0  2.0   0  0.00   62. 1007.    2 NAD-SFC NoSubs
 8 11  10 315 17   -7.0  0.133 -9.000 -9.000 -999.  117.    30.2 0.2470  0.72  0.59  1.50  38.0  15.0 287.8  2.0   0  0.00   66. 1007.    2 NAD-SFC NoSubs
 8 11  10 315 18  -14.3  0.181 -9.000 -9.000 -999.  185.    37.3 0.2090  0.72  1.00  2.10  61.0  15.0 286.8  2.0   0  0.00   70. 1008.    2 NAD-SFC NoSubs
 8 11  10 315 19   -7.1  0.128 -9.000 -9.000 -999.  110.    26.3 0.2090  0.72  1.00  1.50  66.0  15.0 286.0  2.0   0  0.00   75. 1009.    3 NAD-SFC NoSubs
 8 11  10 315 20   -7.1  0.128 -9.000 -9.000 -999.  110.    26.3 0.2090  0.72  1.00  1.50  86.0  15.0 285.2  2.0   0  0.00   79. 1009.    3 NAD-SFC NoSubs
 8 11  10 315 21   -7.2  0.128 -9.000 -9.000 -999.  110.    26.4 0.2130  0.72  1.00  1.50  98.0  15.0 284.4  2.0   0  0.00   84. 1009.    3 NAD-SFC NoSubs
 8 11  10 315 22   -7.2  0.128 -9.000 -9.000 -999.  110.    26.4 0.2130  0.72  1.00  1.50 111.0  15.0 283.8  2.0   0  0.00   87. 1010.    3 NAD-SFC NoSubs
 8 11  10 315 23   -7.2  0.128 -9.000 -9.000 -999.  110.    26.3 0.2130  0.72  1.00  1.50 106.0  15.0 283.2  2.0   0  0.00   89. 1010.    3 NAD-SFC NoSubs
 8 11  10 315 24   -7.2  0.128 -9.000 -9.000 -999.  110.    26.3 0.2130  0.72  1.00  1.50 116.0  15.0 282.8  2.0   0  0.00   91. 1010.    3 NAD-SFC NoSubs
 8 11  11 316  1   -3.6  0.097 -9.000 -9.000 -999.   72.    22.4 0.2130  0.72  1.00  1.00 107.0  15.0 282.2  2.0   0  0.00   93. 1010.    3 NAD-SFC NoSubs
 8 11  11 316  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 281.8  2.0   0  0.00   95. 1010.    3 NAD-SFC NoSubs
 8 11  11 316  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 281.4  2.0   0  0.00   97. 1011.    3 NAD-SFC NoSubs
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 8 11 11 316  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 281.2  2.0   0  0.00   99. 1011.   3 NAD-SFC NoSubs
 8 11 11 316  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 280.2  2.0   0  0.00  100. 1011.   3 NAD-SFC NoSubs
 8 11 11 316  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 279.2  2.0   0  0.00  100. 1012.   3 NAD-SFC NoSubs
 8 11 11 316  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 279.5  2.0   0  0.00  100. 1013.   3 NAD-SFC NoSubs
 8 11 11 316  8    3.3 -9.000 -9.000 -9.000   20. -999. -99999.0 0.2235  0.72  0.40  0.00   0.0  15.0 279.9  2.0   0  0.00  100. 1013.   3 NAD-SFC NoSubs
 8 11 11 316  9   48.3  0.095  0.593  0.005  156.  71.     -1.6 0.2160  0.72  0.27  0.50 279.0  15.0 280.4  2.0   0  0.00  100. 1014.   2 NAD-SFC NoSubs
 8 11 11 316 10   86.4  0.099  0.983  0.006  397.  74.     -1.0 0.1750  0.72  0.23  0.50 264.0  15.0 280.6  2.0   0  0.00  100. 1014.   2 NAD-SFC NoSubs
 8 11 11 316 11  111.3  0.107  1.210  0.007  576.  84.     -1.0 0.2160  0.72  0.21  0.50 274.0  15.0 281.1  2.0   0  0.00  100. 1014.   2 NAD-SFC NoSubs
 8 11 11 316 12  121.9 -9.000 -9.000 -9.000  704. -999. -99999.0 0.2235  0.72  0.21  0.00   0.0  15.0 282.1  2.0   0  0.00   98. 1013.   2 NAD-SFC NoSubs
 8 11 11 316 13  118.1  0.115  1.374  0.008  794.  94.     -1.2 0.2930  0.72  0.21  0.50 348.0  15.0 284.9  2.0   0  0.00   81. 1012.   2 NAD-SFC NoSubs
 8 11 11 316 14   99.6  0.171  1.335  0.008  863. 170.     -4.5 0.2930  0.72  0.22  1.00 335.0  15.0 287.0  2.0   0  0.00   68. 1011.   2 NAD-SFC NoSubs
 8 11 11 316 15   66.9  0.212  1.189  0.008  906. 235.    -12.9 0.2930  0.72  0.25  1.50 341.0  15.0 287.9  2.0   0  0.00   62. 1011.   2 NAD-SFC NoSubs
 8 11 11 316 16   22.6  0.246  0.832  0.008  920. 293.    -59.4 0.2940  0.72  0.33  2.10   2.0  15.0 288.0  2.0   0  0.00   61. 1011.   2 NAD-SFC NoSubs
 8 11 11 316 17  -15.6  0.201 -9.000 -9.000 -999. 217.     47.2 0.2940  0.72  0.59  2.10  21.0  15.0 287.5  2.0   0  0.00   65. 1011.   2 NAD-SFC NoSubs
 8 11 11 316 18   -7.8  0.133 -9.000 -9.000 -999. 118.     27.5 0.2470  0.72  1.00  1.50  48.0  15.0 286.6  2.0   0  0.00   69. 1012.   2 NAD-SFC NoSubs
 8 11 11 316 19   -3.7  0.097 -9.000 -9.000 -999.  73.     22.4 0.2130  0.72  1.00  1.00 108.0  15.0 285.8  2.0   0  0.00   74. 1012.   2 NAD-SFC NoSubs
 8 11 11 316 20   -7.0  0.126 -9.000 -9.000 -999. 107.     25.8 0.1970  0.72  1.00  1.50 140.0  15.0 285.1  2.0   0  0.00   78. 1012.   3 NAD-SFC NoSubs
 8 11 11 316 21   -7.0  0.126 -9.000 -9.000 -999. 107.     25.7 0.1970  0.72  1.00  1.50 137.0  15.0 284.6  2.0   0  0.00   81. 1013.   3 NAD-SFC NoSubs
 8 11 11 316 22   -7.0  0.126 -9.000 -9.000 -999. 107.     25.7 0.1970  0.72  1.00  1.50 141.0  15.0 284.2  2.0   0  0.00   84. 1013.   3 NAD-SFC NoSubs
 8 11 11 316 23  -13.9  0.178 -9.000 -9.000 -999. 181.     36.8 0.1970  0.72  1.00  2.10 138.0  15.0 283.8  2.0   0  0.00   87. 1013.   3 NAD-SFC NoSubs
 8 11 11 316 24  -13.9  0.178 -9.000 -9.000 -999. 181.     36.8 0.1970  0.72  1.00  2.10 148.0  15.0 283.5  2.0   0  0.00   90. 1013.   3 NAD-SFC NoSubs
 8 11 12 317  1   -7.0  0.126 -9.000 -9.000 -999. 108.     25.7 0.1970  0.72  1.00  1.50 147.0  15.0 283.2  2.0   0  0.00   90. 1013.   3 NAD-SFC NoSubs
 8 11 12 317  2   -6.8  0.123 -9.000 -9.000 -999. 104.     25.0 0.1810  0.72  1.00  1.50 152.0  15.0 283.0  2.0   0  0.00   90. 1013.   3 NAD-SFC NoSubs
 8 11 12 317  3   -6.8  0.123 -9.000 -9.000 -999. 104.     25.0 0.1810  0.72  1.00  1.50 155.0  15.0 282.8  2.0   0  0.00   89. 1013.   3 NAD-SFC NoSubs
 8 11 12 317  4   -3.5  0.094 -9.000 -9.000 -999.  69.     21.8 0.1810  0.72  1.00  1.00 151.0  15.0 282.6  2.0   0  0.00   87. 1013.   3 NAD-SFC NoSubs
 8 11 12 317  5   -3.6  0.095 -9.000 -9.000 -999.  71.     22.1 0.1970  0.72  1.00  1.00 128.0  15.0 282.4  2.0   0  0.00   86. 1012.   3 NAD-SFC NoSubs
 8 11 12 317  6   -3.6  0.095 -9.000 -9.000 -999.  71.     22.1 0.1970  0.72  1.00  1.00 134.0  15.0 282.2  2.0   0  0.00   86. 1013.   3 NAD-SFC NoSubs
 8 11 12 317  7   -3.6  0.095 -9.000 -9.000 -999.  71.     22.1 0.1970  0.72  1.00  1.00 143.0  15.0 282.0  2.0   0  0.00   86. 1013.   3 NAD-SFC NoSubs
 8 11 12 317  8    2.8  0.107  0.113  0.005   19.  84.    -39.3 0.1810  0.72  0.41  1.00 154.0  15.0 282.1  2.0   0  0.00   86. 1013.   3 NAD-SFC NoSubs
 8 11 12 317  9   49.4  0.092  0.594  0.005  153.  67.     -1.4 0.1810  0.72  0.27  0.50 173.0  15.0 284.6  2.0   0  0.00   75. 1013.   3 NAD-SFC NoSubs
 8 11 12 317 10   87.6 -9.000 -9.000 -9.000  417. -999. -99999.0 0.2235  0.72  0.23  0.00   0.0  15.0 286.4  2.0   0  0.00   69. 1013.   3 NAD-SFC NoSubs
 8 11 12 317 11  112.6 -9.000 -9.000 -9.000  656. -999. -99999.0 0.2235  0.72  0.21  0.00   0.0  15.0 288.1  2.0   0  0.00   64. 1012.   3 NAD-SFC NoSubs
 8 11 12 317 12  123.3 -9.000 -9.000 -9.000  721. -999. -99999.0 0.2235  0.72  0.21  0.00   0.0  15.0 289.2  2.0   0  0.00   62. 1011.   3 NAD-SFC NoSubs
 8 11 12 317 13  119.3  0.113  1.371  0.013  779.  92.     -1.1 0.2720  0.72  0.21  0.50 323.0  15.0 290.4  2.0   0  0.00   61. 1010.   3 NAD-SFC NoSubs
 8 11 12 317 14  100.8  0.171  1.321  0.014  824. 170.     -4.5 0.2930  0.72  0.22  1.00 331.0  15.0 291.2  2.0   0  0.00   59. 1010.   3 NAD-SFC NoSubs
 8 11 12 317 15   68.4  0.213  1.175  0.014  854. 236.    -12.7 0.2930  0.72  0.25  1.50 345.0  15.0 291.8  2.0   0  0.00   59. 1009.   3 NAD-SFC NoSubs
 8 11 12 317 16   24.6  0.192  0.840  0.014  864. 202.    -25.9 0.2930  0.72  0.33  1.50 354.0  15.0 291.8  2.0   0  0.00   61. 1008.   3 NAD-SFC NoSubs
 8 11 12 317 17   -7.5  0.140 -9.000 -9.000 -999. 126.     32.9 0.2930  0.72  0.60  1.50 360.0  15.0 291.2  2.0   0  0.00   66. 1008.   3 NAD-SFC NoSubs
 8 11 12 317 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 290.2  2.0   0  0.00   72. 1008.   3 NAD-SFC NoSubs
 8 11 12 317 19   -8.3  0.140 -9.000 -9.000 -999.  126.     29.8 0.2940  0.72  1.00  1.50   3.0  15.0 289.1  2.0   0  0.00   78. 1008.   3 NAD-SFC NoSubs
 8 11 12 317 20   -8.3  0.140 -9.000 -9.000 -999.  125.     29.7 0.2930  0.72  1.00  1.50 357.0  15.0 288.2  2.0   0  0.00   83. 1008.   3 NAD-SFC NoSubs
 8 11 12 317 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 287.5  2.0   0  0.00   86. 1009.   3 NAD-SFC NoSubs
 8 11 12 317 22   -8.3  0.140 -9.000 -9.000 -999.  126.     29.7 0.2940  0.72  1.00  1.50  12.0  15.0 286.8  2.0   0  0.00   89. 1009.   3 NAD-SFC NoSubs
 8 11 12 317 23   -1.7  0.084 -9.000 -9.000 -999.   59.     31.9 0.2940  0.72  1.00  0.50   4.0  15.0 286.2  2.0   0  0.00   91. 1009.   3 NAD-SFC NoSubs
 8 11 12 317 24   -1.7  0.084 -9.000 -9.000 -999.   58.     32.1 0.2720  0.72  1.00  0.50 308.0  15.0 285.8  2.0   0  0.00   94. 1009.   2 NAD-SFC NoSubs
 8 11 13 318  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 285.2  2.0   0  0.00   97. 1009.   2 NAD-SFC NoSubs
 8 11 13 318  2   -1.5  0.080 -9.000 -9.000 -999.   54.     31.2 0.1750  0.72  1.00  0.50 262.0  15.0 284.9  2.0   0  0.00   99. 1009.   2 NAD-SFC NoSubs
 8 11 13 318  3   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4 0.2160  0.72  1.00  0.50 287.0  15.0 284.8  2.0   0  0.00  100. 1009.   3 NAD-SFC NoSubs
 8 11 13 318  4   -1.7  0.084 -9.000 -9.000 -999.   58.     32.1 0.2720  0.72  1.00  0.50 303.0  15.0 284.8  2.0   0  0.00  100. 1008.   2 NAD-SFC NoSubs
 8 11 13 318  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 285.1  2.0   0  0.00  100. 1008.   2 NAD-SFC NoSubs
 8 11 13 318  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 285.2  2.0   0  0.00  100. 1009.   2 NAD-SFC NoSubs
 8 11 13 318  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 285.4  2.0   0  0.00  100. 1009.   2 NAD-SFC NoSubs
 8 11 13 318  8    0.9 -9.000 -9.000 -9.000   16. -999. -99999.0 0.2235  0.72  0.41  0.00   0.0  15.0 285.5  2.0   0  0.00  100. 1009.   2 NAD-SFC NoSubs
 8 11 13 318  9   47.2 -9.000 -9.000 -9.000  261. -999. -99999.0 0.2235  0.72  0.27  0.00   0.0  15.0 285.8  2.0   0  0.00  100. 1009.   2 NAD-SFC NoSubs
 8 11 13 318 10   85.4  0.099  0.978  0.016  394.  74.     -1.0 0.1750  0.72  0.23  0.50 252.0  15.0 286.0  2.0   0  0.00   98. 1009.   2 NAD-SFC NoSubs
 8 11 13 318 11  110.2  0.102  1.123  0.016  462.  78.     -1.0 0.1750  0.72  0.21  0.50 262.0  15.0 286.2  2.0   0  0.00   95. 1009.   2 NAD-SFC NoSubs
 8 11 13 318 12  120.7  0.108  1.209  0.016  527.  85.     -1.0 0.2160  0.72  0.21  0.50 279.0  15.0 286.4  2.0   0  0.00   95. 1009.   2 NAD-SFC NoSubs
 8 11 13 318 13  116.4  0.107  1.235  0.016  582.  84.     -1.0 0.2160  0.72  0.21  0.50 294.0  15.0 286.5  2.0   0  0.00   93. 1008.   2 NAD-SFC NoSubs
 8 11 13 318 14   97.5  0.171  1.193  0.016  625. 169.     -4.6 0.2930  0.72  0.22  1.00 330.0  15.0 286.8  2.0   0  0.00   91. 1007.   2 NAD-SFC NoSubs
 8 11 13 318 15   64.8  0.163  1.056  0.015  653. 157.     -6.0 0.2940  0.72  0.25  1.00  28.0  15.0 287.1  2.0   0  0.00   88. 1007.   2 NAD-SFC NoSubs
 8 11 13 318 16   20.8  0.227  0.726  0.015  661. 260.    -50.6 0.2090  0.72  0.34  2.10  63.0  15.0 287.2  2.0   0  0.00   88. 1007.   2 NAD-SFC NoSubs
 8 11 13 318 17  -21.1  0.231 -9.000 -9.000 -999. 266.     52.2 0.2130  0.72  0.61  2.60 102.0  15.0 286.8  2.0   0  0.00   92. 1007.   2 NAD-SFC NoSubs
 8 11 13 318 18  -28.7  0.271 -9.000 -9.000 -999. 339.     62.5 0.1970  0.72  1.00  3.10 121.0  15.0 286.1  2.0   0  0.00   95. 1007.   3 NAD-SFC NoSubs
 8 11 13 318 19  -28.1  0.265 -9.000 -9.000 -999. 328.     59.7 0.1810  0.72  1.00  3.10 154.0  15.0 285.8  2.0   0  0.00   97. 1007.   3 NAD-SFC NoSubs
 8 11 13 318 20  -32.9  0.311 -9.000 -9.000 -999. 416.     81.8 0.1810  0.72  1.00  3.60 163.0  15.0 285.5  2.0   0  0.00   99. 1007.   3 NAD-SFC NoSubs
 8 11 13 318 21  -33.0  0.311 -9.000 -9.000 -999. 416.     81.7 0.1810  0.72  1.00  3.60 158.0  15.0 285.4  2.0   0  0.00  100. 1007.   3 NAD-SFC NoSubs
 8 11 13 318 22  -33.9  0.311 -9.000 -9.000 -999. 415.     79.4 0.1810  0.72  1.00  3.60 151.0  15.0 284.9  2.0   0  0.00  100. 1007.   2 NAD-SFC NoSubs
 8 11 13 318 23  -29.0  0.265 -9.000 -9.000 -999. 329.     57.9 0.1810  0.72  1.00  3.10 151.0  15.0 284.5  2.0   0  0.00  100. 1007.   2 NAD-SFC NoSubs
 8 11 13 318 24  -29.6  0.271 -9.000 -9.000 -999. 339.     60.4 0.1970  0.72  1.00  3.10 148.0  15.0 284.5  2.0   0  0.00  100. 1007.   2 NAD-SFC NoSubs
 8 11 14 319  1  -21.1  0.220 -9.000 -9.000 -999. 248.     45.3 0.1810  0.72  1.00  2.60 164.0  15.0 284.8  2.0   0  0.00  100. 1007.   2 NAD-SFC NoSubs
 8 11 14 319  2  -13.5  0.174 -9.000 -9.000 -999. 175.     35.3 0.1810  0.72  1.00  2.10 178.0  15.0 284.8  2.0   0  0.00  100. 1007.   2 NAD-SFC NoSubs
 8 11 14 319  3   -7.0  0.125 -9.000 -9.000 -999. 106.     25.2 0.1900  0.72  1.00  1.50 202.0  15.0 284.8  2.0   0  0.00  100. 1007.   2 NAD-SFC NoSubs
 8 11 14 319  4   -3.6  0.096 -9.000 -9.000 -999.  71.     22.1 0.1950  0.72  1.00  1.00 211.0  15.0 284.9  2.0   0  0.00  100. 1007.   2 NAD-SFC NoSubs
 8 11 14 319  5   -3.6  0.096 -9.000 -9.000 -999.  71.     22.1 0.1950  0.72  1.00  1.00 233.0  15.0 284.8  2.0   0  0.00  100. 1007.   2 NAD-SFC NoSubs
 8 11 14 319  6   -3.5  0.094 -9.000 -9.000 -999.  69.     21.7 0.1750  0.72  1.00  1.00 257.0  15.0 284.8  2.0   0  0.00  100. 1007.   2 NAD-SFC NoSubs
 8 11 14 319  7   -3.7  0.097 -9.000 -9.000 -999.  73.     22.4 0.2160  0.72  1.00  1.00 275.0  15.0 284.2  2.0   0  0.00  100. 1008.   2 NAD-SFC NoSubs
 8 11 14 319  8   -0.2  0.088 -9.000 -9.000 -999.  63.    346.0 0.1750  0.72  0.42  1.00 262.0  15.0 283.9  2.0   0  0.00  100. 1008.   2 NAD-SFC NoSubs
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8	11	14	319	9	45.6	0.139	0.564	0.014	141.	125.	-5.3	0.1750	0.72	0.28	1.00	266.0	15.0	283.8	2.0	0	0.00	100.	1009.	2	NAD-SFC	NoSubs
8	11	14	319	10	83.8	0.157	0.800	0.012	220.	149.	-4.1	0.2160	0.72	0.23	1.00	294.0	15.0	284.1	2.0	0	0.00	99.	1009.	2	NAD-SFC	NoSubs
8	11	14	319	11	109.0	0.170	1.028	0.014	359.	169.	-4.1	0.2720	0.72	0.21	1.00	328.0	15.0	285.5	2.0	0	0.00	93.	1009.	2	NAD-SFC	NoSubs
8	11	14	319	12	120.1	0.115	1.158	0.015	465.	95.	-1.2	0.2940	0.72	0.21	0.50	6.0	15.0	287.9	2.0	0	0.00	80.	1008.	2	NAD-SFC	NoSubs
8	11	14	319	13	116.7	0.115	1.212	0.015	549.	93.	-1.2	0.2930	0.72	0.21	0.50	337.0	15.0	290.8	2.0	0	0.00	64.	1007.	2	NAD-SFC	NoSubs
8	11	14	319	14	98.5	0.171	1.187	0.015	611.	169.	-4.5	0.2930	0.72	0.22	1.00	334.0	15.0	292.4	2.0	0	0.00	56.	1007.	2	NAD-SFC	NoSubs
8	11	14	319	15	65.9	0.212	1.060	0.015	648.	234.	-13.0	0.2930	0.72	0.25	1.50	349.0	15.0	292.9	2.0	0	0.00	54.	1007.	2	NAD-SFC	NoSubs
8	11	14	319	16	21.9	0.245	0.738	0.015	659.	292.	-60.6	0.2940	0.72	0.34	2.10	16.0	15.0	292.8	2.0	0	0.00	58.	1007.	2	NAD-SFC	NoSubs
8	11	14	319	17	-26.8	0.289	-9.000	-9.000	-999.	374.	81.2	0.2470	0.72	0.61	3.10	38.0	15.0	291.8	2.0	0	0.00	62.	1007.	2	NAD-SFC	NoSubs
8	11	14	319	18	-15.3	0.190	-9.000	-9.000	-999.	203.	40.1	0.2470	0.72	1.00	2.10	49.0	15.0	290.6	2.0	0	0.00	67.	1007.	2	NAD-SFC	NoSubs
8	11	14	319	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	289.5	2.0	0	0.00	73.	1008.	2	NAD-SFC	NoSubs
8	11	14	319	20	-1.6	0.083	-9.000	-9.000	-999.	57.	31.8	0.2470	0.72	1.00	0.50	39.0	15.0	288.8	2.0	0	0.00	79.	1008.	2	NAD-SFC	NoSubs
8	11	14	319	21	-7.2	0.128	-9.000	-9.000	-999.	110.	26.1	0.2090	0.72	1.00	1.50	61.0	15.0	288.5	2.0	0	0.00	77.	1009.	2	NAD-SFC	NoSubs
8	11	14	319	22	-22.3	0.228	-9.000	-9.000	-999.	262.	48.0	0.2090	0.72	1.00	2.60	78.0	15.0	288.1	2.0	0	0.00	76.	1009.	2	NAD-SFC	NoSubs
8	11	14	319	23	-34.9	0.322	-9.000	-9.000	-999.	439.	86.4	0.2090	0.72	1.00	3.60	86.0	15.0	287.6	2.0	0	0.00	76.	1009.	2	NAD-SFC	NoSubs
8	11	14	319	24	-35.1	0.324	-9.000	-9.000	-999.	442.	87.1	0.2130	0.72	1.00	3.60	103.0	15.0	287.2	2.0	0	0.00	73.	1009.	2	NAD-SFC	NoSubs
8	11	15	320	1	-35.2	0.324	-9.000	-9.000	-999.	442.	86.9	0.2130	0.72	1.00	3.60	103.0	15.0	286.8	2.0	0	0.00	70.	1009.	2	NAD-SFC	NoSubs
8	11	15	320	2	-40.1	0.369	-9.000	-9.000	-999.	538.	112.7	0.2090	0.72	1.00	4.10	88.0	15.0	286.2	2.0	0	0.00	70.	1009.	2	NAD-SFC	NoSubs
8	11	15	320	3	-35.1	0.322	-9.000	-9.000	-999.	440.	85.9	0.2090	0.72	1.00	3.60	87.0	15.0	286.0	2.0	0	0.00	72.	1010.	2	NAD-SFC	NoSubs
8	11	15	320	4	-30.0	0.275	-9.000	-9.000	-999.	348.	62.6	0.2090	0.72	1.00	3.10	89.0	15.0	285.8	2.0	0	0.00	73.	1010.	2	NAD-SFC	NoSubs
8	11	15	320	5	-14.4	0.181	-9.000	-9.000	-999.	189.	37.2	0.2090	0.72	1.00	2.10	87.0	15.0	285.1	2.0	0	0.00	77.	1010.	2	NAD-SFC	NoSubs
8	11	15	320	6	-7.8	0.133	-9.000	-9.000	-999.	117.	27.4	0.2470	0.72	1.00	1.50	56.0	15.0	283.9	2.0	0	0.00	84.	1010.	2	NAD-SFC	NoSubs
8	11	15	320	7	-7.8	0.133	-9.000	-9.000	-999.	117.	27.4	0.2470	0.72	1.00	1.50	49.0	15.0	283.2	2.0	0	0.00	89.	1011.	2	NAD-SFC	NoSubs
8	11	15	320	8	-1.3	0.143	-9.000	-9.000	-999.	129.	202.9	0.2470	0.72	0.42	1.50	46.0	15.0	282.2	2.0	0	0.00	93.	1011.	2	NAD-SFC	NoSubs
8	11	15	320	9	44.6	0.149	0.477	0.014	87.	139.	-6.7	0.2470	0.72	0.28	1.00	40.0	15.0	284.1	2.0	0	0.00	87.	1011.	2	NAD-SFC	NoSubs
8	11	15	320	10	83.9	0.110	0.819	0.013	236.	88.	-1.4	0.2940	0.72	0.23	0.50	24.0	15.0	288.8	2.0	0	0.00	63.	1011.	2	NAD-SFC	NoSubs
8	11	15	320	11	109.5	0.173	1.006	0.011	336.	173.	-4.3	0.2940	0.72	0.21	1.00	16.0	15.0	290.8	2.0	0	0.00	57.	1011.	2	NAD-SFC	NoSubs
8	11	15	320	12	120.7	0.176	1.129	0.010	430.	177.	-4.0	0.2940	0.72	0.21	1.00	16.0	15.0	292.8	2.0	0	0.00	49.	1010.	2	NAD-SFC	NoSubs
8	11	15	320	13	117.0	0.226	1.190	0.009	518.	258.	-8.9	0.2940	0.72	0.21	1.50	24.0	15.0	294.1	2.0	0	0.00	46.	1009.	2	NAD-SFC	NoSubs
8	11	15	320	14	98.6	0.325	1.169	0.008	582.	445.	-31.4	0.2940	0.72	0.22	2.60	9.0	15.0	294.9	2.0	0	0.00	44.	1008.	2	NAD-SFC	NoSubs
8	11	15	320	15	65.9	0.361	1.044	0.007	621.	520.	-63.9	0.2940	0.72	0.25	3.10	6.0	15.0	295.0	2.0	0	0.00	46.	1008.	2	NAD-SFC	NoSubs
8	11	15	320	16	22.4	0.386	0.735	0.007	635.	575.	-230.0	0.2940	0.72	0.34	3.60	16.0	15.0	295.6	2.0	0	0.00	43.	1007.	2	NAD-SFC	NoSubs
8	11	15	320	17	-35.7	0.387	-9.000	-9.000	-999.	579.	146.1	0.2470	0.72	0.62	4.10	38.0	15.0	294.2	2.0	0	0.00	46.	1007.	2	NAD-SFC	NoSubs
8	11	15	320	18	-35.7	0.337	-9.000	-9.000	-999.	472.	96.6	0.2470	0.72	1.00	3.60	42.0	15.0	293.5	2.0	0	0.00	45.	1008.	2	NAD-SFC	NoSubs
8	11	15	320	19	-7.7	0.133	-9.000	-9.000	-999.	163.	27.8	0.2470	0.72	1.00	1.50	56.0	15.0	292.5	2.0	0	0.00	48.	1008.	2	NAD-SFC	NoSubs
8	11	15	320	20	-1.4	0.079	-9.000	-9.000	-999.	57.	31.0	0.1810	0.72	1.00	0.50	169.0	15.0	291.2	2.0	0	0.00	54.	1008.	2	NAD-SFC	NoSubs
8	11	15	320	21	-1.5	0.080	-9.000	-9.000	-999.	54.	31.2	0.1900	0.72	1.00	0.50	195.0	15.0	290.4	2.0	0	0.00	56.	1009.	2	NAD-SFC	NoSubs
8	11	15	320	22	-1.5	0.080	-9.000	-9.000	-999.	55.	31.3	0.1970	0.72	1.00	0.50	122.0	15.0	289.6	2.0	0	0.00	56.	1009.	2	NAD-SFC	NoSubs
8	11	15	320	23	-1.5	0.081	-9.000	-9.000	-999.	55.	31.5	0.2130	0.72	1.00	0.50	101.0	15.0	288.9	2.0	0	0.00	57.	1009.	2	NAD-SFC	NoSubs
8	11	15	320	24	-1.5	0.081	-9.000	-9.000	-999.	56.	31.5	0.2130	0.72	1.00	0.50	92.0	15.0	288.2	2.0	0	0.00	58.	1009.	2	NAD-SFC	NoSubs
8	11	16	321	1	-1.5	0.081	-9.000	-9.000	-999.	55.	31.5	0.2090	0.72	1.00	0.50	72.0	15.0	287.5	2.0	0	0.00	60.	1009.	2	NAD-SFC	NoSubs
8	11	16	321	2	-1.6	0.083	-9.000	-9.000	-999.	57.	31.9	0.2470	0.72	1.00	0.50	55.0	15.0	286.9	2.0	0	0.00	62.	1009.	2	NAD-SFC	NoSubs
8	11	16	321	3	-1.6	0.083	-9.000	-9.000	-999.	57.	31.9	0.2470	0.72	1.00	0.50	33.0	15.0	286.4	2.0	0	0.00	64.	1009.	2	NAD-SFC	NoSubs
8	11	16	321	4	-1.7	0.085	-9.000	-9.000	-999.	59.	32.2	0.2940	0.72	1.00	0.50	15.0	15.0	285.8	2.0	0	0.00	66.	1009.	2	NAD-SFC	NoSubs
8	11	16	321	5	-4.1	0.103	-9.000	-9.000	-999.	79.	23.6	0.2930	0.72	1.00	1.00	349.0	15.0	285.4	2.0	0	0.00	68.	1009.	2	NAD-SFC	NoSubs
8	11	16	321	6	-4.1	0.103	-9.000	-9.000	-999.	79.	23.6	0.2930	0.72	1.00	1.00	333.0	15.0	285.2	2.0	0	0.00	68.	1010.	2	NAD-SFC	NoSubs
8	11	16	321	7	-1.6	0.082	-9.000	-9.000	-999.	56.	31.6	0.2160	0.72	1.00	0.50	296.0	15.0	285.1	2.0	0	0.00	67.	1010.	2	NAD-SFC	NoSubs
8	11	16	321	8	-0.2	0.041	-9.000	-9.000	-999.	20.	26.5	0.1750	0.72	0.43	0.50	256.0	15.0	285.2	2.0	0	0.00	65.	1010.	2	NAD-SFC	NoSubs
8	11	16	321	9	44.3	0.191	0.473	0.008	86.	200.	-14.1	0.2160	0.72	0.28	1.50	285.0	15.0	287.2	2.0	0	0.00	55.	1010.	2	NAD-SFC	NoSubs
8	11	16	321	10	83.1	0.257	0.769	0.007	197.	313.	-18.4	0.2160	0.72	0.23	2.10	286.0	15.0	289.6	2.0	0	0.00	48.	1010.	2	NAD-SFC	NoSubs
8	11	16	321	11	108.6	0.170	1.021	0.007	353.	172.	-4.1	0.2720	0.72	0.21	1.00	311.0	15.0	291.4	2.0	0	0.00	45.	1010.	2	NAD-SFC	NoSubs
8	11	16	321	12	119.8	0.113	1.200	0.007	520.	92.	-1.1	0.2720	0.72	0.21	0.50	316.0	15.0	293.0	2.0	0	0.00	41.	1009.	2	NAD-SFC	NoSubs
8	11	16	321	13	116.2	0.115	1.284	0.007	656.	93.	-1.2	0.2930	0.72	0.21	0.50	343.0	15.0	294.4	2.0	0	0.00	39.	1008.	2	NAD-SFC	NoSubs
8	11	16	321	14	97.8	0.222	1.263	0.006	740.	251.	-10.0	0.2930	0.72	0.22	1.50	346.0	15.0	295.2	2.0	0	0.00	37.	1008.	2	NAD-SFC	NoSubs
8	11	16	321	15	65.4	-9.000	-9.000	-9.000	792.	-999.	-99999.0	0.2235	0.72	0.25	0.00	0.0	15.0	295.6	2.0	0	0.00	37.	1007.	2	NAD-SFC	NoSubs
8	11	16	321	16	21.5	0.291	0.785	0.006	808.	377.	-102.9	0.2940	0.72	0.34	2.60	20.0	15.0	295.2	2.0	0	0.00	43.	1007.	2	NAD-SFC	NoSubs
8	11	16	321	17	-28.4	0.304	-9.000	-9.000	-999.	403.	89.2	0.2940	0.72	0.62	3.10	28.0	15.0	294.2	2.0	0	0.00	45.	1007.	2	NAD-SFC	NoSubs
8	11	16	321	18	-23.8	0.239	-9.000	-9.000	-999.	283.	51.7	0.2470	0.72	1.00	2.60	34.0	15.0	293.2	2.0	0	0.00	48.	1008.	2	NAD-SFC	NoSubs
8	11	16	321	19	-4.1	0.102	-9.000	-9.000	-999.	94.	23.7	0.2940	0.72	1.00	1.00	28.0	15.0	291.8	2.0	0	0.00	54.	1008.	2	NAD-SFC	NoSubs
8	11	16	321	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	290.5	2.0	0	0.00	60.	1008.	2	NAD-SFC	NoSubs
8	11	16	321	21	-1.5	0.081	-9.000	-9.000	-999.	56.	31.5	0.2160	0.72	1.00	0.50	293.0	15.0	289.6	2.0	0	0.00	65.	1009.	2	NAD-SFC	NoSubs
8	11	16	321	22	-1.7	0.084	-9.000	-9.000	-999.	59.	32.1	0.2940	0.72	1.00	0.50	10.0	15.0	288.9	2.0	0	0.00	67.	1009.	2	NAD-SFC	NoSubs
8	11	16	321	23	-3.8	0.099	-9.000	-9.000	-999.	75.	22.9	0.2470	0.72	1.00	1.00	39.0	15.0	288.4	2.0	0	0.00	69.	1009.	2	NAD-SFC	NoSubs
8	11	16	321	24	-1.6	0.083	-9.000	-9.000	-999.	57.	31.8	0.2470	0.72	1.00	0.50	43.0	15.0	287.8	2.0	0	0.00	71.	1009.	2	NAD-SFC	NoSubs
8	11	17	322	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	287.2	2.0	0	0.00	72.	1010.	2	NAD-SFC	NoSubs
8	11	17	322	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	286.8	2.0	0	0.00	72.	1010.	2	NAD-SFC	NoSubs
8	11	17	322	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	286.4	2.0	0	0.00	71.	1010.	2	NAD-SFC	NoSubs
8	11	17	322	4	-1.5	0.081	-9.000	-9.000	-999.	56.	31.5	0.2090	0.72	1.00	0.50	78.0	15.0	286.1	2.0	0	0.00	71.	1010.	2	NAD-SFC	NoSubs
8	11	17	322	5	-1.5	0.081	-9.000	-9.000	-999.	56.	31.5	0.2090	0.72	1.00	0.50	66.0	15.0	285.9	2.0	0	0.00	70.	1010.	2	NAD-SFC	NoSubs
8	11	17	322	6	-1.6	0.083	-9.000	-9.000	-999.	57.	31.9	0.2470	0.72	1.00	0.50	56.0	15.0	285.8	2.0	0	0.00	69.	1011.	2	NAD-SFC	NoSubs
8	11	17	322	7	-1.7	0.084	-9.000	-9.000	-999.	58.	32.1	0.2720	0.72	1.00	0.50	300.0	15.0	285.8	2.0	0	0.00	67.	1011.	2	NAD-SFC	NoSubs
8	11	17	322	8	-0.3	0.043	-9.000	-9.000	-999.	22.	24.7	0.2160	0.72	0.43	0.50	292.0	15.0	285.8	2.0	0	0.00	65.	1011.	2	NAD-SFC	NoSubs
8	11	17	322	9	43.4	0.200	0.472	0.011	87.	215.	-16.6	0.2720	0.72	0.28	1.50	304.0	15.0	287.6	2.0	0	0.00	58.	1011.	2	NAD-SFC	NoSubs
8	11	17	322	10	82.3	0.315	0.772	0.008	201.	424.	-34.2	0.2720	0.72	0.23	2.60	303.0	15.0	290.4	2.0	0	0.00	50.	1011.	2	NAD-SFC	NoSubs
8	11	17	322	11	107.8	0.277	0.985	0.009	320.	351.	-17.8	0.2720	0.72	0.21	2.10	315.0	15.0	292.1	2.0	0	0.00	48.	1011.	2	NAD-SFC	NoSubs
8	11	17	322	12	119.1	0.223	1.119	0.008	424.	253.	-8.4	0.2720	0.72	0.21	1.50	320.0	15.0	293.8	2.0	0	0.00	45.	1010.	2	NAD-SFC	NoSubs
8	11	17	322	13	115.6	0.172	1.189	0.007	524.	171.	-3.9	0.2720	0.72	0.21	1.00	328.0	15.0	295.2	2.0	0	0.00	43.	1010.	2	NAD-SFC	NoSubs

8	11	17	322	14	97.4	0.168	1.172	0.007	596.	165.	-4.4	0.2720	0.72	0.22	1.00	328.0	15.0	296.2	2.0	0	0.00	41.	1009.	2	NAD-SFC	NoSubs
8	11	17	322	15	65.0	0.212	1.049	0.006	639.	234.	-13.1	0.2930	0.72	0.25	1.50	332.0	15.0	296.6	2.0	0	0.00	40.	1009.	2	NAD-SFC	NoSubs
8	11	17	322	16	21.4	0.143	0.730	0.006	652.	131.	-12.3	0.2930	0.72	0.34	1.00	347.0	15.0	296.4	2.0	0	0.00	44.	1009.	2	NAD-SFC	NoSubs
8	11	17	322	17	-1.5	0.080	-9.000	-9.000	-999.	55.	30.7	0.2940	0.72	0.63	0.50	17.0	15.0	295.4	2.0	0	0.00	49.	1009.	2	NAD-SFC	NoSubs
8	11	17	322	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	293.9	2.0	0	0.00	56.	1009.	2	NAD-SFC	NoSubs
8	11	17	322	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	292.4	2.0	0	0.00	62.	1009.	2	NAD-SFC	NoSubs
8	11	17	322	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	291.1	2.0	0	0.00	68.	1009.	2	NAD-SFC	NoSubs
8	11	17	322	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	290.2	2.0	0	0.00	72.	1009.	2	NAD-SFC	NoSubs
8	11	17	322	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	289.4	2.0	0	0.00	74.	1009.	2	NAD-SFC	NoSubs
8	11	17	322	23	-1.6	0.083	-9.000	-9.000	-999.	57.	31.8	0.2470	0.72	1.00	0.50	53.0	15.0	288.8	2.0	0	0.00	76.	1009.	2	NAD-SFC	NoSubs
8	11	17	322	24	-1.5	0.081	-9.000	-9.000	-999.	55.	31.5	0.2090	0.72	1.00	0.50	65.0	15.0	288.2	2.0	0	0.00	78.	1009.	2	NAD-SFC	NoSubs
8	11	18	323	1	-1.6	0.083	-9.000	-9.000	-999.	57.	31.8	0.2470	0.72	1.00	0.50	47.0	15.0	287.9	2.0	0	0.00	78.	1009.	2	NAD-SFC	NoSubs
8	11	18	323	2	-1.6	0.083	-9.000	-9.000	-999.	57.	31.8	0.2470	0.72	1.00	0.50	37.0	15.0	287.5	2.0	0	0.00	78.	1009.	2	NAD-SFC	NoSubs
8	11	18	323	3	-1.7	0.085	-9.000	-9.000	-999.	59.	32.2	0.2940	0.72	1.00	0.50	16.0	15.0	287.2	2.0	0	0.00	77.	1010.	2	NAD-SFC	NoSubs
8	11	18	323	4	-1.7	0.085	-9.000	-9.000	-999.	59.	32.2	0.2940	0.72	1.00	0.50	15.0	15.0	286.9	2.0	0	0.00	77.	1010.	2	NAD-SFC	NoSubs
8	11	18	323	5	-4.1	0.103	-9.000	-9.000	-999.	79.	23.6	0.2930	0.72	1.00	1.00	342.0	15.0	286.5	2.0	0	0.00	77.	1010.	2	NAD-SFC	NoSubs
8	11	18	323	6	-8.1	0.137	-9.000	-9.000	-999.	122.	28.5	0.2720	0.72	1.00	1.50	318.0	15.0	286.2	2.0	0	0.00	76.	1011.	2	NAD-SFC	NoSubs
8	11	18	323	7	-8.1	0.137	-9.000	-9.000	-999.	122.	28.5	0.2720	0.72	1.00	1.50	307.0	15.0	286.2	2.0	0	0.00	73.	1011.	2	NAD-SFC	NoSubs
8	11	18	323	8	-2.4	0.136	-9.000	-9.000	-999.	120.	94.4	0.2160	0.72	0.44	1.50	299.0	15.0	286.1	2.0	0	0.00	70.	1011.	2	NAD-SFC	NoSubs
8	11	18	323	9	42.3	0.299	0.460	0.007	83.	392.	-57.0	0.2720	0.72	0.28	2.60	314.0	15.0	287.6	2.0	0	0.00	64.	1012.	2	NAD-SFC	NoSubs
8	11	18	323	10	80.9	0.314	0.743	0.006	183.	423.	-34.7	0.2720	0.72	0.23	2.60	306.0	15.0	289.4	2.0	0	0.00	58.	1012.	2	NAD-SFC	NoSubs
8	11	18	323	11	106.5	0.277	0.973	0.007	312.	350.	-17.9	0.2720	0.72	0.21	2.10	305.0	15.0	291.2	2.0	0	0.00	51.	1012.	2	NAD-SFC	NoSubs
8	11	18	323	12	117.7	0.222	1.127	0.006	439.	253.	-8.4	0.2720	0.72	0.21	1.50	313.0	15.0	292.8	2.0	0	0.00	48.	1011.	2	NAD-SFC	NoSubs
8	11	18	323	13	114.2	0.113	1.213	0.006	564.	97.	-1.1	0.2720	0.72	0.21	0.50	313.0	15.0	294.2	2.0	0	0.00	44.	1010.	2	NAD-SFC	NoSubs
8	11	18	323	14	96.1	0.167	1.203	0.005	652.	164.	-4.4	0.2720	0.72	0.22	1.00	317.0	15.0	295.4	2.0	0	0.00	40.	1009.	2	NAD-SFC	NoSubs
8	11	18	323	15	63.8	0.211	1.087	0.005	724.	233.	-13.3	0.2930	0.72	0.25	1.50	335.0	15.0	295.8	2.0	0	0.00	39.	1009.	2	NAD-SFC	NoSubs
8	11	18	323	16	20.3	0.142	0.750	0.005	747.	130.	-12.6	0.2930	0.72	0.35	1.00	342.0	15.0	295.4	2.0	0	0.00	44.	1008.	2	NAD-SFC	NoSubs
8	11	18	323	17	-1.5	0.080	-9.000	-9.000	-999.	55.	30.8	0.2930	0.72	0.63	0.50	346.0	15.0	294.2	2.0	0	0.00	48.	1008.	2	NAD-SFC	NoSubs
8	11	18	323	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	292.9	2.0	0	0.00	55.	1008.	2	NAD-SFC	NoSubs
8	11	18	323	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	291.6	2.0	0	0.00	61.	1008.	2	NAD-SFC	NoSubs
8	11	18	323	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	290.5	2.0	0	0.00	66.	1008.	2	NAD-SFC	NoSubs
8	11	18	323	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	289.6	2.0	0	0.00	71.	1008.	2	NAD-SFC	NoSubs
8	11	18	323	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	288.9	2.0	0	0.00	75.	1008.	2	NAD-SFC	NoSubs
8	11	18	323	23	-4.1	0.102	-9.000	-9.000	-999.	79.	23.7	0.2940	0.72	1.00	1.00	12.0	15.0	288.2	2.0	0	0.00	77.	1008.	2	NAD-SFC	NoSubs
8	11	18	323	24	-8.4	0.140	-9.000	-9.000	-999.	125.	29.3	0.2930	0.72	1.00	1.50	358.0	15.0	287.8	2.0	0	0.00	79.	1008.	2	NAD-SFC	NoSubs
8	11	19	324	1	-8.4	0.140	-9.000	-9.000	-999.	125.	29.3	0.2930	0.72	1.00	1.50	336.0	15.0	287.2	2.0	0	0.00	80.	1008.	2	NAD-SFC	NoSubs
8	11	19	324	2	-16.1	0.195	-9.000	-9.000	-999.	207.	41.4	0.2720	0.72	1.00	2.10	309.0	15.0	286.9	2.0	0	0.00	81.	1008.	2	NAD-SFC	NoSubs
8	11	19	324	3	-25.2	0.246	-9.000	-9.000	-999.	293.	53.0	0.2720	0.72	1.00	2.60	312.0	15.0	286.5	2.0	0	0.00	80.	1008.	2	NAD-SFC	NoSubs
8	11	19	324	4	-25.2	0.246	-9.000	-9.000	-999.	293.	52.9	0.2720	0.72	1.00	2.60	312.0	15.0	286.0	2.0	0	0.00	80.	1008.	2	NAD-SFC	NoSubs
8	11	19	324	5	-8.1	0.137	-9.000	-9.000	-999.	127.	28.4	0.2720	0.72	1.00	1.50	309.0	15.0	285.5	2.0	0	0.00	81.	1008.	2	NAD-SFC	NoSubs
8	11	19	324	6	-4.0	0.101	-9.000	-9.000	-999.	78.	23.3	0.2720	0.72	1.00	1.00	306.0	15.0	285.1	2.0	0	0.00	84.	1009.	2	NAD-SFC	NoSubs
8	11	19	324	7	-1.7	0.084	-9.000	-9.000	-999.	59.	32.1	0.2720	0.72	1.00	0.50	319.0	15.0	284.6	2.0	0	0.00	87.	1009.	2	NAD-SFC	NoSubs
8	11	19	324	8	-0.5	0.050	-9.000	-9.000	-999.	27.	23.8	0.2930	0.72	0.44	0.50	358.0	15.0	284.4	2.0	0	0.00	90.	1009.	2	NAD-SFC	NoSubs
8	11	19	324	9	40.7	0.202	0.522	0.012	125.	218.	-18.2	0.2930	0.72	0.29	1.50	340.0	15.0	285.5	2.0	0	0.00	90.	1009.	2	NAD-SFC	NoSubs
8	11	19	324	10	78.9	0.166	0.772	0.012	210.	163.	-5.2	0.2930	0.72	0.23	1.00	345.0	15.0	286.4	2.0	0	0.00	86.	1009.	2	NAD-SFC	NoSubs
8	11	19	324	11	104.5	0.113	0.975	0.011	319.	92.	-1.3	0.2940	0.72	0.21	0.50	2.0	15.0	288.2	2.0	0	0.00	75.	1009.	2	NAD-SFC	NoSubs
8	11	19	324	12	115.8	0.175	1.102	0.010	415.	175.	-4.1	0.2930	0.72	0.21	1.00	332.0	15.0	290.2	2.0	0	0.00	62.	1008.	2	NAD-SFC	NoSubs
8	11	19	324	13	112.3	0.221	1.168	0.009	511.	250.	-8.7	0.2720	0.72	0.21	1.50	325.0	15.0	291.6	2.0	0	0.00	55.	1008.	2	NAD-SFC	NoSubs
8	11	19	324	14	94.0	0.273	1.148	0.008	579.	343.	-19.5	0.2720	0.72	0.22	2.10	326.0	15.0	292.1	2.0	0	0.00	54.	1007.	2	NAD-SFC	NoSubs
8	11	19	324	15	61.6	0.313	1.020	0.008	619.	420.	-44.7	0.2930	0.72	0.25	2.60	344.0	15.0	292.1	2.0	0	0.00	54.	1007.	2	NAD-SFC	NoSubs
8	11	19	324	16	18.3	0.187	0.685	0.008	630.	203.	-32.1	0.2930	0.72	0.35	1.50	345.0	15.0	291.9	2.0	0	0.00	59.	1007.	2	NAD-SFC	NoSubs
8	11	19	324	17	-3.7	0.099	-9.000	-9.000	-999.	78.	23.4	0.2720	0.72	0.64	1.00	323.0	15.0	291.2	2.0	0	0.00	62.	1006.	2	NAD-SFC	NoSubs
8	11	19	324	18	-3.4	0.094	-9.000	-9.000	-999.	69.	21.7	0.1750	0.72	1.00	1.00	257.0	15.0	290.4	2.0	0	0.00	65.	1007.	2	NAD-SFC	NoSubs
8	11	19	324	19	-3.4	0.094	-9.000	-9.000	-999.	69.	21.7	0.1750	0.72	1.00	1.00	245.0	15.0	289.6	2.0	0	0.00	68.	1007.	2	NAD-SFC	NoSubs
8	11	19	324	20	-1.4	0.079	-9.000	-9.000	-999.	54.	31.0	0.1750	0.72	1.00	0.50	262.0	15.0	288.9	2.0	0	0.00	71.	1007.	2	NAD-SFC	NoSubs
8	11	19	324	21	-1.6	0.084	-9.000	-9.000	-999.	58.	32.0	0.2720	0.72	1.00	0.50	319.0	15.0	288.4	2.0	0	0.00	73.	1007.	2	NAD-SFC	NoSubs
8	11	19	324	22	-4.1	0.102	-9.000	-9.000	-999.	79.	23.6	0.2930	0.72	1.00	1.00	332.0	15.0	288.1	2.0	0	0.00	73.	1007.	2	NAD-SFC	NoSubs
8	11	19	324	23	-4.1	0.102	-9.000	-9.000	-999.	79.	23.6	0.2930	0.72	1.00	1.00	344.0	15.0	287.8	2.0	0	0.00	74.	1008.	2	NAD-SFC	NoSubs
8	11	19	324	24	-8.4	0.140	-9.000	-9.000	-999.	125.	29.3	0.2930	0.72	1.00	1.50	337.0	15.0	287.5	2.0	0	0.00	75.	1008.	2	NAD-SFC	NoSubs
8	11	20	325	1	-4.1	0.103	-9.000	-9.000	-999.	79.	23.6	0.2930	0.72	1.00	1.00	338.0	15.0	287.2	2.0	0	0.00	78.	1008.	2	NAD-SFC	NoSubs
8	11	20	325	2	-1.7	0.084	-9.000	-9.000	-999.	58.	32.0	0.2720	0.72	1.00	0.50	323.0	15.0	286.9	2.0	0	0.00	80.	1008.	2	NAD-SFC	NoSubs
8	11	20	325	3	-1.7	0.084	-9.000	-9.000	-999.	58.	32.0	0.2720	0.72	1.00	0.50	300.0	15.0	286.8	2.0	0	0.00	82.	1008.	2	NAD-SFC	NoSubs
8	11	20	325	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	286.4	2.0	0	0.00	84.	1008.	2	NAD-SFC	NoSubs
8	11	20	325	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	286.2	2.0	0	0.00	86.	1009.	2	NAD-SFC	NoSubs
8	11	20	325	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	285.9	2.0	0	0.00	88.	1009.	2	NAD-SFC	NoSubs
8	11	20	325	7	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	285.4	2.0	0	0.00	91.	1010.	2	NAD-SFC	NoSubs
8	11	20	325	8	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	0.45	0.00	0.0	15.0	285.0	2.0	0	0.00	93.	1010.	2	NAD-SFC	NoSubs
8	11	20	325	9	39.9	-9.000	-9.000	-9.000	173.	-999.	-99999.0	0.2235	0.72	0.29	0.00	0.0	15.0	286.5	2.0	0	0.00	88.	1010.	2	NAD-SFC	NoSubs
8	11	20	325	10	78.3	0.109	0.853	0.009	286.	86.	-1.5	0.2930	0.72	0.23	0.50	348.0	15.0	288.0	2.0	0	0.00	82.	1011.	2	NAD-SFC	NoSubs
8	11	20	325	11	103.7	0.169	1.036	0.009	387.	167.	-4.2	0.2720	0.72	0.21	1.00	328.0	15.0	289.1	2.0	0	0.00	75.	1011.	2	NAD-SFC	NoSubs
8	11	20	325	12	114.8	0.172	1.185	0.009	523.	170.	-4.0	0.2720	0.72	0.21	1.00	316.0	15.0	290.2	2.0	0	0.00	67.	1010.	2	NAD-SFC	NoSubs
8	11	20	325	13	111.3	0.221	1.249	0.009	630.	249.	-8.7	0.2720	0.72	0.21	1.50	324.0	15.0	291.2	2.0	0	0.00	59.	1009.	2	NAD-SFC	NoSubs
8	11	20	325	14	93.1	0.273	1.215	0.009	695.	342.	-19.7	0.2720	0.72	0.22	2.10	329.0	15.0	291.9	2.0	0	0.00	55.	1009.	2	NAD-SFC	NoSubs
8	11	20	325	15	60.9	0.313	1.073	0.009	730.	419.	-45.1	0.2930	0.72	0.26	2.60	335.0	15.0	292.1	2.0	0	0.00	54.	1008.	2	NAD-SFC	NoSubs
8	11	20	325	16	18.1	0.238	0.720	0.009	741.	281.	-66.8	0.2720	0.72	0.35	2.10	322.0	15.0	292.9	2.0	0	0.00	53.	1008.	2	NAD-SFC	NoSubs
8	11	20	325	17	-15.4	0.196	-9.000	-9.000	-999.	209.	44.0	0.2720	0.72	0.64	2.10	322.0	15.0	292.2	2.0	0	0.00	55.	1008.	2	NAD-SFC	NoSubs
8	11	20	325	18	-8.0	0.137	-9.000	-9.000	-999.	122.	28.7	0.2720	0.72	1.00	1.50	312.0	15.0	291.2	2.0	0	0.00	58.	1008.	2	NAD-SFC	NoSubs

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 8 11 20 325 19   -8.0  0.137 -9.000 -9.000 -999.  122.     28.7  0.2720  0.72  1.00  1.50  308.0  15.0  290.2  2.0   0  0.00   63.  1008.    2 NAD-SFC NoSubs
 8 11 20 325 20  -16.1  0.195 -9.000 -9.000 -999.  207.     41.6  0.2720  0.72  1.00  2.10  321.0  15.0  289.2  2.0   0  0.00   68.  1008.    2 NAD-SFC NoSubs
 8 11 20 325 21  -26.1  0.251 -9.000 -9.000 -999.  303.     54.8  0.2930  0.72  1.00  2.60  339.0  15.0  288.0  2.0   0  0.00   76.  1009.    2 NAD-SFC NoSubs
 8 11 20 325 22  -32.9  0.303 -9.000 -9.000 -999.  400.     76.1  0.2930  0.72  1.00  3.10  352.0  15.0  286.9  2.0   0  0.00   84.  1009.    2 NAD-SFC NoSubs
 8 11 20 325 23  -26.2  0.251 -9.000 -9.000 -999.  303.     54.5  0.2930  0.72  1.00  2.60  357.0  15.0  286.0  2.0   0  0.00   90.  1009.    2 NAD-SFC NoSubs
 8 11 20 325 24  -16.8  0.200 -9.000 -9.000 -999.  215.     42.5  0.2930  0.72  1.00  2.10  357.0  15.0  285.2  2.0   0  0.00   96.  1009.    2 NAD-SFC NoSubs
 8 11 21 326  1  -16.8  0.200 -9.000 -9.000 -999.  214.     42.5  0.2930  0.72  1.00  2.10  358.0  15.0  284.6  2.0   0  0.00  100.  1009.    2 NAD-SFC NoSubs
 8 11 21 326  2   -8.4  0.140 -9.000 -9.000 -999.  126.     29.1  0.2930  0.72  1.00  1.50  355.0  15.0  284.1  2.0   0  0.00  100.  1009.    2 NAD-SFC NoSubs
 8 11 21 326  3  -16.9  0.200 -9.000 -9.000 -999.  214.     42.4  0.2930  0.72  1.00  2.10  354.0  15.0  283.8  2.0   0  0.00  100.  1009.    2 NAD-SFC NoSubs
 8 11 21 326  4   -8.4  0.140 -9.000 -9.000 -999.  126.     29.1  0.2930  0.72  1.00  1.50  338.0  15.0  283.6  2.0   0  0.00  100.  1009.    2 NAD-SFC NoSubs
 8 11 21 326  5   -8.4  0.140 -9.000 -9.000 -999.  125.     29.1  0.2930  0.72  1.00  1.50  331.0  15.0  283.5  2.0   0  0.00  100.  1009.    2 NAD-SFC NoSubs
 8 11 21 326  6   -4.0  0.101 -9.000 -9.000 -999.   78.     23.3  0.2720  0.72  1.00  1.00  300.0  15.0  283.2  2.0   0  0.00  100.  1009.    2 NAD-SFC NoSubs
 8 11 21 326  7   -3.7  0.098 -9.000 -9.000 -999.   73.     22.5  0.2160  0.72  1.00  1.00  282.0  15.0  283.0  2.0   0  0.00  100.  1009.    2 NAD-SFC NoSubs
 8 11 21 326  8   -4.2  0.133 -9.000 -9.000 -999.  117.     51.2  0.2160  0.72  0.45  1.50  284.0  15.0  283.0  2.0   0  0.00  100.  1009.    2 NAD-SFC NoSubs
 8 11 21 326  9   38.0  0.188  0.634  0.014  240.  195.    -15.7  0.2160  0.72  0.29  1.50  284.0  15.0  283.0  2.0   0  0.00   98.  1009.    2 NAD-SFC NoSubs
 8 11 21 326 10   76.2 -9.000 -9.000 -9.000  307. -999. -99999.0  0.2235  0.72  0.23  0.00    0.0  15.0  283.8  2.0   0  0.00   91.  1009.    2 NAD-SFC NoSubs
 8 11 21 326 11  101.6 -9.000 -9.000 -9.000  379. -999. -99999.0  0.2235  0.72  0.22  0.00    0.0  15.0  285.1  2.0   0  0.00   81.  1009.    2 NAD-SFC NoSubs
 8 11 21 326 12  112.8 -9.000 -9.000 -9.000  469. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  286.8  2.0   0  0.00   71.  1008.    2 NAD-SFC NoSubs
 8 11 21 326 13  109.4 -9.000 -9.000 -9.000  547. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  288.2  2.0   0  0.00   64.  1007.    2 NAD-SFC NoSubs
 8 11 21 326 14   91.3 -9.000 -9.000 -9.000  604. -999. -99999.0  0.2235  0.72  0.22  0.00    0.0  15.0  289.1  2.0   0  0.00   60.  1007.    2 NAD-SFC NoSubs
 8 11 21 326 15   59.3  0.105  1.018  0.015  639.   82.     -1.8  0.2930  0.72  0.26  0.50  331.0  15.0  289.6  2.0   0  0.00   58.  1006.    2 NAD-SFC NoSubs
 8 11 21 326 16   16.4  0.139  0.667  0.015  648.  124.    -14.6  0.2930  0.72  0.35  1.00  331.0  15.0  289.8  2.0   0  0.00   58.  1006.    2 NAD-SFC NoSubs
 8 11 21 326 17   -1.6  0.082 -9.000 -9.000 -999.   57.     31.3  0.2930  0.72  0.65  0.50  334.0  15.0  289.2  2.0   0  0.00   61.  1006.    2 NAD-SFC NoSubs
 8 11 21 326 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  288.2  2.0   0  0.00   65.  1007.    2 NAD-SFC NoSubs
 8 11 21 326 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  287.2  2.0   0  0.00   70.  1007.    2 NAD-SFC NoSubs
 8 11 21 326 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  286.2  2.0   0  0.00   75.  1007.    2 NAD-SFC NoSubs
 8 11 21 326 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  285.2  2.0   0  0.00   79.  1007.    2 NAD-SFC NoSubs
 8 11 21 326 22   -1.7  0.084 -9.000 -9.000 -999.   59.     32.1  0.2720  0.72  1.00  0.50  315.0  15.0  284.6  2.0   0  0.00   82.  1008.    2 NAD-SFC NoSubs
 8 11 21 326 23   -1.7  0.084 -9.000 -9.000 -999.   59.     32.1  0.2720  0.72  1.00  0.50  303.0  15.0  284.1  2.0   0  0.00   82.  1008.    2 NAD-SFC NoSubs
 8 11 21 326 24   -8.1  0.137 -9.000 -9.000 -999.  122.     28.3  0.2720  0.72  1.00  1.50  304.0  15.0  283.8  2.0   0  0.00   81.  1008.    2 NAD-SFC NoSubs
 8 11 22 327  1   -8.1  0.137 -9.000 -9.000 -999.  122.     28.3  0.2720  0.72  1.00  1.50  300.0  15.0  283.4  2.0   0  0.00   78.  1008.    2 NAD-SFC NoSubs
 8 11 22 327  2   -8.1  0.137 -9.000 -9.000 -999.  122.     28.3  0.2720  0.72  1.00  1.50  301.0  15.0  283.0  2.0   0  0.00   76.  1008.    2 NAD-SFC NoSubs
 8 11 22 327  3   -3.7  0.098 -9.000 -9.000 -999.   73.     22.5  0.2160  0.72  1.00  1.00  295.0  15.0  282.8  2.0   0  0.00   74.  1008.    2 NAD-SFC NoSubs
 8 11 22 327  4   -3.7  0.098 -9.000 -9.000 -999.   73.     22.5  0.2160  0.72  1.00  1.00  281.0  15.0  282.4  2.0   0  0.00   73.  1008.    2 NAD-SFC NoSubs
 8 11 22 327  5   -1.6  0.082 -9.000 -9.000 -999.   56.     31.8  0.2160  0.72  1.00  0.50  280.0  15.0  282.2  2.0   0  0.00   73.  1008.    2 NAD-SFC NoSubs
 8 11 22 327  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  281.8  2.0   0  0.00   74.  1009.    2 NAD-SFC NoSubs
 8 11 22 327  7   -1.5  0.080 -9.000 -9.000 -999.   55.     31.3  0.1750  0.72  1.00  0.50  251.0  15.0  281.2  2.0   0  0.00   77.  1009.    2 NAD-SFC NoSubs
 8 11 22 327  8   17.7 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.46  0.00    0.0  15.0  281.1  2.0   0  0.00   78.  1009.    2 NAD-SFC NoSubs
 8 11 22 327  9   36.9  0.097  0.534  0.012  149.   72.     -2.2  0.2720  0.72  0.29  0.50  321.0  15.0  282.6  2.0   0  0.00   72.  1009.    2 NAD-SFC NoSubs
 8 11 22 327 10   75.3  0.107  0.817  0.012  260.   84.     -1.4  0.2720  0.72  0.24  0.50  314.0  15.0  284.6  2.0   0  0.00   65.  1009.    2 NAD-SFC NoSubs
 8 11 22 327 11  101.0 -9.000 -9.000 -9.000  374. -999. -99999.0  0.2235  0.72  0.22  0.00    0.0  15.0  286.4  2.0   0  0.00   60.  1009.    2 NAD-SFC NoSubs
 8 11 22 327 12  112.4 -9.000 -9.000 -9.000  472. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  288.2  2.0   0  0.00   53.  1008.    2 NAD-SFC NoSubs
 8 11 22 327 13  109.0 -9.000 -9.000 -9.000  551. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  289.4  2.0   0  0.00   50.  1007.    2 NAD-SFC NoSubs
 8 11 22 327 14   90.9  0.109  1.154  0.012  609.   87.     -1.3  0.2720  0.72  0.22  0.50  312.0  15.0  290.0  2.0   0  0.00   49.  1007.    2 NAD-SFC NoSubs
 8 11 22 327 15   58.9  0.103  1.019  0.012  644.   80.     -1.7  0.2720  0.72  0.26  0.50  322.0  15.0  290.4  2.0   0  0.00   48.  1006.    2 NAD-SFC NoSubs
 8 11 22 327 16   16.1  0.089  0.664  0.012  653.   63.     -3.9  0.2930  0.72  0.35  0.50  333.0  15.0  290.4  2.0   0  0.00   51.  1006.    2 NAD-SFC NoSubs
 8 11 22 327 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.65  0.00    0.0  15.0  289.6  2.0   0  0.00   55.  1006.    2 NAD-SFC NoSubs
 8 11 22 327 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  288.2  2.0   0  0.00   61.  1006.    2 NAD-SFC NoSubs
 8 11 22 327 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  287.1  2.0   0  0.00   67.  1006.    2 NAD-SFC NoSubs
 8 11 22 327 20   -1.5  0.080 -9.000 -9.000 -999.   54.     31.2  0.1810  0.72  1.00  0.50  157.0  15.0  286.0  2.0   0  0.00   72.  1006.    2 NAD-SFC NoSubs
 8 11 22 327 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  285.1  2.0   0  0.00   76.  1007.    2 NAD-SFC NoSubs
 8 11 22 327 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  284.2  2.0   0  0.00   81.  1007.    2 NAD-SFC NoSubs
 8 11 22 327 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  283.5  2.0   0  0.00   85.  1007.    2 NAD-SFC NoSubs
 8 11 22 327 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  282.9  2.0   0  0.00   87.  1007.    2 NAD-SFC NoSubs
 8 11 23 328  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  282.6  2.0   0  0.00   88.  1007.    2 NAD-SFC NoSubs
 8 11 23 328  2   -1.7  0.085 -9.000 -9.000 -999.   60.     32.3  0.2930  0.72  1.00  0.50  334.0  15.0  282.2  2.0   0  0.00   88.  1007.    2 NAD-SFC NoSubs
 8 11 23 328  3   -4.0  0.102 -9.000 -9.000 -999.   78.     23.3  0.2720  0.72  1.00  1.00  306.0  15.0  281.9  2.0   0  0.00   87.  1007.    2 NAD-SFC NoSubs
 8 11 23 328  4   -4.0  0.102 -9.000 -9.000 -999.   78.     23.3  0.2720  0.72  1.00  1.00  307.0  15.0  281.8  2.0   0  0.00   87.  1007.    2 NAD-SFC NoSubs
 8 11 23 328  5   -8.2  0.137 -9.000 -9.000 -999.  122.     28.2  0.2720  0.72  1.00  1.50  311.0  15.0  281.5  2.0   0  0.00   86.  1007.    2 NAD-SFC NoSubs
 8 11 23 328  6   -4.0  0.102 -9.000 -9.000 -999.   78.     23.3  0.2720  0.72  1.00  1.00  318.0  15.0  281.2  2.0   0  0.00   85.  1008.    2 NAD-SFC NoSubs
 8 11 23 328  7   -4.0  0.102 -9.000 -9.000 -999.   78.     23.3  0.2720  0.72  1.00  1.00  316.0  15.0  281.1  2.0   0  0.00   84.  1008.    2 NAD-SFC NoSubs
 8 11 23 328  8   -2.2  0.091 -9.000 -9.000 -999.   66.     30.6  0.2720  0.72  0.46  1.00  307.0  15.0  281.0  2.0   0  0.00   84.  1009.    2 NAD-SFC NoSubs
 8 11 23 328  9   36.0  0.149  0.430  0.013   79.  138.     -8.2  0.2720  0.72  0.29  1.00  320.0  15.0  282.9  2.0   0  0.00   73.  1009.    2 NAD-SFC NoSubs
 8 11 23 328 10   74.4  0.162  0.725  0.012  184.  157.     -5.2  0.2720  0.72  0.24  1.00  311.0  15.0  284.9  2.0   0  0.00   65.  1009.    2 NAD-SFC NoSubs
 8 11 23 328 11  100.1  0.168  0.946  0.011  304.  166.     -4.3  0.2720  0.72  0.22  1.00  311.0  15.0  286.9  2.0   0  0.00   61.  1009.    2 NAD-SFC NoSubs
 8 11 23 328 12  111.6  0.171  1.080  0.011  406.  170.     -4.0  0.2720  0.72  0.21  1.00  324.0  15.0  288.8  2.0   0  0.00   54.  1008.    2 NAD-SFC NoSubs
 8 11 23 328 13  108.4  0.173  1.143  0.010  495.  173.     -4.3  0.2930  0.72  0.21  1.00  339.0  15.0  290.2  2.0   0  0.00   52.  1007.    2 NAD-SFC NoSubs
 8 11 23 328 14   90.5  0.220  1.121  0.009  559.  248.    -10.5  0.2930  0.72  0.22  1.50  346.0  15.0  291.2  2.0   0  0.00   48.  1006.    2 NAD-SFC NoSubs
 8 11 23 328 15   58.7  0.266  0.992  0.009  596.  328.    -28.6  0.2930  0.72  0.26  2.10  347.0  15.0  291.6  2.0   0  0.00   47.  1006.    2 NAD-SFC NoSubs
 8 11 23 328 16   15.9  0.287  0.645  0.009  606.  368.   -133.0  0.2940  0.72  0.36  2.60    8.0  15.0  291.1  2.0   0  0.00   54.  1005.    2 NAD-SFC NoSubs
 8 11 23 328 17  -30.4  0.304 -9.000 -9.000 -999.  402.     82.6  0.2940  0.72  0.65  3.10   22.0  15.0  290.0  2.0   0  0.00   60.  1005.    2 NAD-SFC NoSubs
 8 11 23 328 18  -26.0  0.252 -9.000 -9.000 -999.  304.     54.9  0.2940  0.72  1.00  2.60    7.0  15.0  288.8  2.0   0  0.00   64.  1006.    2 NAD-SFC NoSubs
 8 11 23 328 19   -8.4  0.140 -9.000 -9.000 -999.  132.     29.3  0.2930  0.72  1.00  1.50  357.0  15.0  287.9  2.0   0  0.00   68.  1006.    2 NAD-SFC NoSubs
 8 11 23 328 20   -4.1  0.103 -9.000 -9.000 -999.   79.     23.6  0.2930  0.72  1.00  1.00  339.0  15.0  287.0  2.0   0  0.00   72.  1007.    2 NAD-SFC NoSubs
 8 11 23 328 21   -4.0  0.101 -9.000 -9.000 -999.   77.     23.3  0.2720  0.72  1.00  1.00  326.0  15.0  286.2  2.0   0  0.00   76.  1007.    2 NAD-SFC NoSubs
 8 11 23 328 22   -1.7  0.085 -9.000 -9.000 -999.   59.     32.2  0.2930  0.72  1.00  0.50  335.0  15.0  285.5  2.0   0  0.00   78.  1008.    2 NAD-SFC NoSubs
 8 11 23 328 23   -1.6  0.083 -9.000 -9.000 -999.   58.     31.8  0.2720  0.72  1.00  0.50  325.0  15.0  285.1  2.0   0  0.00   79.  1008.    3 NAD-SFC NoSubs
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8	11	23	328	24	-4.0	0.102	-9.000	-9.000	-999.	78.	23.6	0.2930	0.72	1.00	1.00	331.0	15.0	284.8	2.0	0	0.00	80.	1008.	3	NAD-SFC	NoSubs
8	11	24	329	1	-8.3	0.140	-9.000	-9.000	-999.	125.	29.5	0.2930	0.72	1.00	1.50	335.0	15.0	284.5	2.0	0	0.00	79.	1008.	3	NAD-SFC	NoSubs
8	11	24	329	2	-25.0	0.246	-9.000	-9.000	-999.	293.	53.5	0.2720	0.72	1.00	2.60	329.0	15.0	284.2	2.0	0	0.00	79.	1007.	3	NAD-SFC	NoSubs
8	11	24	329	3	-37.8	0.354	-9.000	-9.000	-999.	506.	105.8	0.2930	0.72	1.00	3.60	340.0	15.0	284.0	2.0	0	0.00	79.	1007.	3	NAD-SFC	NoSubs
8	11	24	329	4	-43.3	0.406	-9.000	-9.000	-999.	621.	138.7	0.2940	0.72	1.00	4.10	1.0	15.0	283.6	2.0	0	0.00	80.	1007.	3	NAD-SFC	NoSubs
8	11	24	329	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	283.2	2.0	0	0.00	79.	1007.	3	NAD-SFC	NoSubs
8	11	24	329	6	-32.5	0.303	-9.000	-9.000	-999.	401.	77.2	0.2940	0.72	1.00	3.10	15.0	15.0	283.0	2.0	0	0.00	77.	1008.	3	NAD-SFC	NoSubs
8	11	24	329	7	-26.0	0.252	-9.000	-9.000	-999.	304.	55.1	0.2940	0.72	1.00	2.60	21.0	15.0	283.0	2.0	0	0.00	73.	1008.	3	NAD-SFC	NoSubs
8	11	24	329	8	-7.6	0.207	-9.000	-9.000	-999.	226.	105.2	0.2940	0.72	0.47	2.10	19.0	15.0	283.0	2.0	0	0.00	70.	1009.	3	NAD-SFC	NoSubs
8	11	24	329	9	37.3	0.200	0.414	0.009	68.	215.	-19.4	0.2940	0.72	0.30	1.50	7.0	15.0	283.5	2.0	0	0.00	67.	1009.	4	NAD-SFC	NoSubs
8	11	24	329	10	74.5	0.272	0.704	0.007	168.	340.	-24.2	0.2930	0.72	0.24	2.10	350.0	15.0	285.2	2.0	0	0.00	59.	1009.	4	NAD-SFC	NoSubs
8	11	24	329	11	99.5	0.326	0.943	0.006	303.	446.	-31.2	0.2940	0.72	0.22	2.60	1.0	15.0	287.1	2.0	0	0.00	49.	1009.	4	NAD-SFC	NoSubs
8	11	24	329	12	111.3	0.375	1.096	0.005	426.	552.	-42.7	0.2940	0.72	0.21	3.10	2.0	15.0	288.2	2.0	0	0.00	47.	1008.	3	NAD-SFC	NoSubs
8	11	24	329	13	108.0	0.374	1.184	0.005	552.	550.	-43.6	0.2940	0.72	0.21	3.10	14.0	15.0	289.0	2.0	0	0.00	48.	1007.	3	NAD-SFC	NoSubs
8	11	24	329	14	90.2	0.415	1.170	0.005	639.	640.	-71.0	0.2940	0.72	0.22	3.60	9.0	15.0	289.5	2.0	0	0.00	50.	1007.	3	NAD-SFC	NoSubs
8	11	24	329	15	58.8	0.451	1.047	0.005	702.	725.	-139.8	0.2940	0.72	0.26	4.10	23.0	15.0	289.9	2.0	0	0.00	52.	1007.	3	NAD-SFC	NoSubs
8	11	24	329	16	16.5	0.430	0.693	0.005	721.	677.	-430.9	0.2940	0.72	0.36	4.10	25.0	15.0	289.6	2.0	0	0.00	56.	1006.	3	NAD-SFC	NoSubs
8	11	24	329	17	-39.9	0.407	-9.000	-9.000	-999.	623.	151.3	0.2940	0.72	0.66	4.10	18.0	15.0	288.8	2.0	0	0.00	59.	1006.	3	NAD-SFC	NoSubs
8	11	24	329	18	-42.6	0.406	-9.000	-9.000	-999.	621.	141.2	0.2940	0.72	1.00	4.10	14.0	15.0	288.5	2.0	0	0.00	59.	1007.	3	NAD-SFC	NoSubs
8	11	24	329	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	288.2	2.0	0	0.00	59.	1007.	4	NAD-SFC	NoSubs
8	11	24	329	20	-3.7	0.099	-9.000	-9.000	-999.	74.	22.9	0.2470	0.72	1.00	1.00	37.0	15.0	289.2	2.0	0	0.00	55.	1007.	3	NAD-SFC	NoSubs
8	11	24	329	21	-1.5	0.080	-9.000	-9.000	-999.	55.	31.1	0.2470	0.72	1.00	0.50	45.0	15.0	289.0	2.0	0	0.00	56.	1008.	4	NAD-SFC	NoSubs
8	11	24	329	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	288.5	2.0	0	0.00	60.	1008.	4	NAD-SFC	NoSubs
8	11	24	329	23	-41.3	0.406	-9.000	-9.000	-999.	621.	145.6	0.2930	0.72	1.00	4.10	347.0	15.0	286.8	2.0	0	0.00	71.	1008.	4	NAD-SFC	NoSubs
8	11	24	329	24	-46.8	0.458	-9.000	-9.000	-999.	743.	184.0	0.2930	0.72	1.00	4.60	351.0	15.0	285.2	2.0	0	0.00	83.	1008.	4	NAD-SFC	NoSubs
8	11	25	330	1	-41.7	0.406	-9.000	-9.000	-999.	624.	144.8	0.2940	0.72	1.00	4.10	6.0	15.0	284.8	2.0	0	0.00	88.	1008.	4	NAD-SFC	NoSubs
8	11	25	330	2	-41.7	0.406	-9.000	-9.000	-999.	622.	144.7	0.2940	0.72	1.00	4.10	23.0	15.0	284.5	2.0	0	0.00	93.	1008.	4	NAD-SFC	NoSubs
8	11	25	330	3	-41.7	0.406	-9.000	-9.000	-999.	622.	144.6	0.2940	0.72	1.00	4.10	24.0	15.0	284.2	2.0	0	0.00	100.	1008.	4	NAD-SFC	NoSubs
8	11	25	330	4	-41.8	0.406	-9.000	-9.000	-999.	622.	144.4	0.2940	0.72	1.00	4.10	22.0	15.0	283.9	2.0	0	0.00	100.	1008.	4	NAD-SFC	NoSubs
8	11	25	330	5	-41.8	0.406	-9.000	-9.000	-999.	622.	144.5	0.2940	0.72	1.00	4.10	7.0	15.0	284.1	2.0	0	0.00	100.	1008.	4	NAD-SFC	NoSubs
8	11	25	330	6	-36.5	0.355	-9.000	-9.000	-999.	509.	110.2	0.2940	0.72	1.00	3.60	6.0	15.0	284.1	2.0	0	0.00	100.	1008.	4	NAD-SFC	NoSubs
8	11	25	330	7	-31.2	0.304	-9.000	-9.000	-999.	403.	80.6	0.2940	0.72	1.00	3.10	13.0	15.0	284.1	2.0	0	0.00	100.	1009.	4	NAD-SFC	NoSubs
8	11	25	330	8	-8.3	0.259	-9.000	-9.000	-999.	317.	188.3	0.2940	0.72	0.47	2.60	8.0	15.0	284.2	2.0	0	0.00	100.	1009.	4	NAD-SFC	NoSubs
8	11	25	330	9	36.6	0.301	0.456	0.007	93.	396.	-66.8	0.2930	0.72	0.30	2.60	353.0	15.0	284.4	2.0	0	0.00	100.	1009.	4	NAD-SFC	NoSubs
8	11	25	330	10	73.7	0.271	0.728	0.007	188.	340.	-24.4	0.2930	0.72	0.24	2.10	345.0	15.0	285.8	2.0	0	0.00	90.	1009.	4	NAD-SFC	NoSubs
8	11	25	330	11	98.5	0.279	0.966	0.007	329.	354.	-19.9	0.2930	0.72	0.22	2.10	341.0	15.0	286.8	2.0	0	0.00	83.	1009.	4	NAD-SFC	NoSubs
8	11	25	330	12	106.3	0.224	1.100	0.006	450.	255.	-9.5	0.2930	0.72	0.21	1.50	341.0	15.0	287.2	2.0	0	0.00	79.	1008.	5	NAD-SFC	NoSubs
8	11	25	330	13	103.0	0.223	1.162	0.005	547.	253.	-9.7	0.2930	0.72	0.21	1.50	348.0	15.0	287.2	2.0	0	0.25	79.	1007.	5	NAD-SFC	NoSubs
8	11	25	330	14	72.9	0.215	1.071	0.005	606.	239.	-12.2	0.2940	0.72	0.23	1.50	2.0	15.0	286.9	2.0	0	0.51	84.	1007.	7	NAD-SFC	NoSubs
8	11	25	330	15	48.0	0.261	0.950	0.005	642.	320.	-33.3	0.2940	0.72	0.26	2.10	15.0	15.0	286.4	2.0	0	1.02	89.	1006.	7	NAD-SFC	NoSubs
8	11	25	330	16	0.4	0.265	0.186	0.005	643.	328.	-4695.7	0.2940	0.72	0.36	2.60	15.0	15.0	286.8	2.0	0	0.76	90.	1005.	10	NAD-SFC	NoSubs
8	11	25	330	17	-17.8	0.255	-9.000	-9.000	-999.	309.	83.1	0.2940	0.72	0.66	2.60	14.0	15.0	286.4	2.0	0	0.76	93.	1005.	8	NAD-SFC	NoSubs
8	11	25	330	18	-19.1	0.254	-9.000	-9.000	-999.	308.	77.1	0.2940	0.72	1.00	2.60	7.0	15.0	286.2	2.0	0	0.51	94.	1005.	8	NAD-SFC	NoSubs
8	11	25	330	19	-14.9	0.202	-9.000	-9.000	-999.	219.	49.7	0.2940	0.72	1.00	2.10	11.0	15.0	286.1	2.0	0	0.51	95.	1005.	7	NAD-SFC	NoSubs
8	11	25	330	20	-14.2	0.203	-9.000	-9.000	-999.	219.	52.7	0.2940	0.72	1.00	2.10	13.0	15.0	286.0	2.0	0	0.51	96.	1004.	8	NAD-SFC	NoSubs
8	11	25	330	21	-14.2	0.203	-9.000	-9.000	-999.	219.	52.7	0.2940	0.72	1.00	2.10	11.0	15.0	286.0	2.0	0	0.76	97.	1004.	8	NAD-SFC	NoSubs
8	11	25	330	22	-19.1	0.254	-9.000	-9.000	-999.	308.	77.1	0.2940	0.72	1.00	2.60	16.0	15.0	286.0	2.0	0	0.76	98.	1004.	8	NAD-SFC	NoSubs
8	11	25	330	23	-14.1	0.256	-9.000	-9.000	-999.	311.	106.4	0.2940	0.72	1.00	2.60	16.0	15.0	286.1	2.0	0	1.02	98.	1004.	10	NAD-SFC	NoSubs
8	11	25	330	24	-14.1	0.256	-9.000	-9.000	-999.	311.	106.4	0.2940	0.72	1.00	2.60	24.0	15.0	286.1	2.0	0	1.02	98.	1003.	10	NAD-SFC	NoSubs
8	11	26	331	1	-14.1	0.256	-9.000	-9.000	-999.	311.	106.4	0.2940	0.72	1.00	2.60	19.0	15.0	286.2	2.0	0	1.27	98.	1003.	10	NAD-SFC	NoSubs
8	11	26	331	2	-14.1	0.256	-9.000	-9.000	-999.	311.	106.4	0.2940	0.72	1.00	2.60	19.0	15.0	286.2	2.0	0	1.52	98.	1002.	10	NAD-SFC	NoSubs
8	11	26	331	3	-14.1	0.256	-9.000	-9.000	-999.	311.	106.4	0.2940	0.72	1.00	2.60	24.0	15.0	286.2	2.0	0	2.03	99.	1002.	10	NAD-SFC	NoSubs
8	11	26	331	4	-10.7	0.195	-9.000	-9.000	-999.	207.	61.5	0.2470	0.72	1.00	2.10	31.0	15.0	286.2	2.0	0	2.29	99.	1001.	10	NAD-SFC	NoSubs
8	11	26	331	5	-10.7	0.195	-9.000	-9.000	-999.	206.	61.5	0.2470	0.72	1.00	2.10	39.0	15.0	286.2	2.0	0	1.78	99.	1001.	10	NAD-SFC	NoSubs
8	11	26	331	6	-13.6	0.192	-9.000	-9.000	-999.	202.	46.3	0.2470	0.72	1.00	2.10	52.0	15.0	286.2	2.0	0	1.02	99.	1001.	7	NAD-SFC	NoSubs
8	11	26	331	7	-2.5	0.089	-9.000	-9.000	-999.	70.	25.9	0.2470	0.72	1.00	1.00	43.0	15.0	286.2	2.0	0	0.25	98.	1001.	10	NAD-SFC	NoSubs
8	11	26	331	8	-1.4	0.085	-9.000	-9.000	-999.	60.	38.7	0.1950	0.72	0.48	1.00	222.0	15.0	286.2	2.0	0	0.00	98.	1001.	6	NAD-SFC	NoSubs
8	11	26	331	9	30.9	0.313	0.569	0.005	213.	420.	-88.4	0.1900	0.72	0.30	3.10	196.0	15.0	286.4	2.0	0	0.51	97.	1001.	7	NAD-SFC	NoSubs
8	11	26	331	10	15.1	0.345	0.476	0.005	255.	486.	-242.7	0.1900	0.72	0.24	3.60	192.0	15.0	286.9	2.0	0	0.51	93.	1001.	10	NAD-SFC	NoSubs
8	11	26	331	11	95.6	0.505	1.076	0.007	466.	861.	-120.2	0.1900	0.72	0.22	5.10	195.0	15.0	288.8	2.0	0	0.00	81.	1001.	5	NAD-SFC	NoSubs
8	11	26	331	12	109.5	0.385	1.271	0.006	670.	585.	-46.6	0.1950	0.72	0.21	3.60	217.0	15.0	289.9	2.0	0	0.00	72.	1001.	4	NAD-SFC	NoSubs
8	11	26	331	13	106.3	0.343	1.319	0.007	770.	483.	-33.8	0.1950	0.72	0.21	3.10	228.0	15.0	290.5	2.0	0	0.00	66.	1000.	4	NAD-SFC	NoSubs
8	11	26	331	14	89.0	0.289	1.281	0.007	844.	375.	-24.3	0.1750	0.72	0.23	2.60	241.0	15.0	290.8	2.0	0	0.00	62.	1000.	4	NAD-SFC	NoSubs
8	11	26	331	15	58.4	0.188	1.133	0.007	889.	200.	-10.1	0.1750	0.72	0.26	1.50	248.0	15.0	291.0	2.0	0	0.00	64.	1000.	4	NAD-SFC	NoSubs
8	11	26	331	16	17.3	0.216	0.759	0.007	902.	241.	-52.1	0.1750	0.72	0.36	2.10	244.0	15.0	290.8	2.0	0	0.00	64.	1000.	4	NAD-SFC	NoSubs
8	11	26	331	17	-29.8	0.317	-9.000	-9.000	-999.	429.	96.0	0.1950	0.72	0.66	3.60	228.0	15.0	289.9	2.0	0	0.00	68.	1001.	4	NAD-SFC	NoSubs
8	11	26	331	18	-31.9	0.317	-9.000	-9.000	-999.	428.	89.3	0.1950	0.72	1.00	3.60	222.0	15.0	288.6	2.0	0	0.00	75.	1002.	4	NAD-SFC	NoSubs
8	11	26	331	19	-26.0	0.271	-9.000	-9.000	-999.	340.	68.6	0.1950	0.72	1.00	3.10	225.0	15.0	287.8	2.0	0	0.00	81.	1003.	5	NAD-SFC	NoSubs
8	11	26	331	20	-24.5	0.272	-9.000	-9.000	-999.	340.	73.3	0.1950	0.72	1.00	3.10	220.0	15.0	287.2	2.0	0	0.25	86.	1003.	6	NAD-SFC	NoSubs
8	11	26	331	21	-20.5	0.225	-9.000	-9.000	-999.	257.	49.9	0.1950	0.72	1.00	2.60	212.0	15.0	286.9	2.0	0	0.25	88.	1004.	5	NAD-SFC	NoSubs
8	11	26	331	22	-20.3	0.224	-9.000	-9.000	-999.	254.	49.4	0.1900	0.72	1.00	2.60	195.0	15.0	286.8	2.0	0	0.25	89.	1004.	5	NAD-SFC	NoSubs
8	11	26	331	23	-20.3	0.220	-9.000	-9.000	-999.	248.	47.2	0.1810	0.72	1.00	2.60	168.0	15.0	286.9	2.0	0	0.00	88.	1004.	4	NAD-SFC	NoSubs
8	11	26	331	24	-20.3	0.220	-9.000	-9.000	-999.	248.	47.2	0.1810	0.72	1.00	2.60	175.0	15.0	286.9	2.0	0	0.00	88.	1004.	4	NAD-SFC	NoSubs
8	11	27	332	1	-13.0	0.175	-9.000	-9.000	-999.	176.	36.7	0.1810	0.72	1.00	2.10	174.0	15.0	286.8	2.0	0	0.00	88.	1004.	4	NAD-SFC	NoSubs
8	11	27	332	2	-3.3	0.093	-9.000	-9.000	-999.	70.	22.0	0.1970	0.72	1.00	1.00	135.0	15.0	286.2	2.0	0	0.00	89.	1005.	5	NAD-SFC	NoSubs
8	11	27	332	3	-13.2	0.179	-9.000	-9.000	-999.	182.	38.9	0.1970	0.72	1.00	2.10	139.0	15.0	285.8	2.0	0	0.00	90.	1005.	5	NAD-SFC	NoSubs
8	11	27	332	4	-30.8	0.318	-9.000	-9.000	-999.	431.	93.5	0.1970	0.72	1.00	3.60	137.0	15.0	285.5	2.0	0	0.00	89.	1005.	5	NAD-SFC	NoSubs

8	11	27	332	5	-29.6	0.325	-9.000	-9.000	-999.	445.	104.1	0.2130	0.72	1.00	3.60	114.0	15.0	285.0	2.0	0	0.00	88.	1006.	6	NAD-SFC NoSubs
8	11	27	332	6	-30.9	0.318	-9.000	-9.000	-999.	431.	93.3	0.1970	0.72	1.00	3.60	122.0	15.0	284.9	2.0	0	0.00	86.	1006.	5	NAD-SFC NoSubs
8	11	27	332	7	-21.9	0.230	-9.000	-9.000	-999.	268.	49.8	0.2130	0.72	1.00	2.60	97.0	15.0	284.8	2.0	0	0.00	85.	1007.	4	NAD-SFC NoSubs
8	11	27	332	8	-6.6	0.260	-9.000	-9.000	-999.	319.	241.1	0.2940	0.72	0.48	2.60	10.0	15.0	284.2	2.0	0	0.00	90.	1007.	7	NAD-SFC NoSubs
8	11	27	332	9	29.7	0.437	0.560	0.005	211.	694.	-252.6	0.2930	0.72	0.30	4.10	339.0	15.0	284.8	2.0	0	0.00	92.	1008.	7	NAD-SFC NoSubs
8	11	27	332	10	70.3	0.501	1.000	0.005	512.	850.	-160.9	0.2930	0.72	0.24	4.60	351.0	15.0	285.9	2.0	0	0.00	85.	1009.	5	NAD-SFC NoSubs
8	11	27	332	11	94.4	0.462	1.253	0.005	752.	755.	-93.8	0.2930	0.72	0.22	4.10	344.0	15.0	287.2	2.0	0	0.00	75.	1009.	5	NAD-SFC NoSubs
8	11	27	332	12	108.1	0.374	1.395	0.005	904.	555.	-43.5	0.2930	0.72	0.21	3.10	331.0	15.0	288.1	2.0	0	0.00	68.	1008.	4	NAD-SFC NoSubs
8	11	27	332	13	105.0	0.367	1.441	0.005	1026.	534.	-42.4	0.2720	0.72	0.21	3.10	329.0	15.0	288.8	2.0	0	0.00	64.	1008.	4	NAD-SFC NoSubs
8	11	27	332	14	87.8	0.317	1.396	0.005	1115.	429.	-32.5	0.2720	0.72	0.23	2.60	327.0	15.0	289.1	2.0	0	0.00	63.	1008.	4	NAD-SFC NoSubs
8	11	27	332	15	57.3	0.209	1.230	0.005	1169.	235.	-14.3	0.2930	0.72	0.26	1.50	330.0	15.0	289.2	2.0	0	0.00	62.	1008.	4	NAD-SFC NoSubs
8	11	27	332	16	16.4	0.139	0.815	0.005	1184.	126.	-14.6	0.2930	0.72	0.36	1.00	349.0	15.0	289.2	2.0	0	0.00	64.	1008.	4	NAD-SFC NoSubs
8	11	27	332	17	-3.7	0.100	-9.000	-9.000	-999.	76.	23.8	0.2930	0.72	0.67	1.00	360.0	15.0	288.8	2.0	0	0.00	67.	1008.	4	NAD-SFC NoSubs
8	11	27	332	18	-1.6	0.084	-9.000	-9.000	-999.	58.	31.9	0.2940	0.72	1.00	0.50	15.0	15.0	287.9	2.0	0	0.00	72.	1009.	3	NAD-SFC NoSubs
8	11	27	332	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	286.9	2.0	0	0.00	77.	1009.	3	NAD-SFC NoSubs
8	11	27	332	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	286.0	2.0	0	0.00	83.	1010.	3	NAD-SFC NoSubs
8	11	27	332	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	285.2	2.0	0	0.00	87.	1011.	3	NAD-SFC NoSubs
8	11	27	332	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	284.6	2.0	0	0.00	89.	1012.	3	NAD-SFC NoSubs
8	11	27	332	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	284.0	2.0	0	0.00	92.	1012.	3	NAD-SFC NoSubs
8	11	27	332	24	-1.5	0.081	-9.000	-9.000	-999.	55.	31.4	0.2130	0.72	1.00	0.50	96.0	15.0	283.4	2.0	0	0.00	94.	1013.	3	NAD-SFC NoSubs
8	11	28	333	1	-3.6	0.097	-9.000	-9.000	-999.	72.	22.4	0.2130	0.72	1.00	1.00	110.0	15.0	282.8	2.0	0	0.00	96.	1013.	3	NAD-SFC NoSubs
8	11	28	333	2	-3.6	0.095	-9.000	-9.000	-999.	71.	22.1	0.1970	0.72	1.00	1.00	132.0	15.0	282.2	2.0	0	0.00	97.	1013.	3	NAD-SFC NoSubs
8	11	28	333	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	281.5	2.0	0	0.00	100.	1013.	3	NAD-SFC NoSubs
8	11	28	333	4	-1.7	0.084	-9.000	-9.000	-999.	58.	32.0	0.2720	0.72	1.00	0.50	316.0	15.0	280.6	2.0	0	0.00	100.	1013.	3	NAD-SFC NoSubs
8	11	28	333	5	-1.7	0.084	-9.000	-9.000	-999.	58.	32.0	0.2720	0.72	1.00	0.50	328.0	15.0	280.2	2.0	0	0.00	100.	1013.	3	NAD-SFC NoSubs
8	11	28	333	6	-1.7	0.084	-9.000	-9.000	-999.	59.	32.1	0.2930	0.72	1.00	0.50	345.0	15.0	280.2	2.0	0	0.00	100.	1014.	3	NAD-SFC NoSubs
8	11	28	333	7	-1.7	0.084	-9.000	-9.000	-999.	59.	32.1	0.2930	0.72	1.00	0.50	330.0	15.0	280.8	2.0	0	0.00	100.	1014.	3	NAD-SFC NoSubs
8	11	28	333	8	-0.9	0.063	-9.000	-9.000	-999.	38.	26.0	0.2160	0.72	0.49	0.50	274.0	15.0	281.1	2.0	0	0.00	100.	1015.	2	NAD-SFC NoSubs
8	11	28	333	9	30.9	0.133	0.422	0.006	88.	117.	-7.0	0.1750	0.72	0.30	1.00	263.0	15.0	281.1	2.0	0	0.00	100.	1015.	2	NAD-SFC NoSubs
8	11	28	333	10	68.9	0.199	0.795	0.005	264.	214.	-10.4	0.2160	0.72	0.24	1.50	273.0	15.0	281.2	2.0	0	0.00	100.	1015.	2	NAD-SFC NoSubs
8	11	28	333	11	94.4	0.152	1.058	0.006	454.	143.	-3.4	0.1750	0.72	0.22	1.00	268.0	15.0	281.6	2.0	0	0.00	100.	1015.	2	NAD-SFC NoSubs
8	11	28	333	12	106.1	0.111	1.254	0.009	673.	89.	-1.2	0.2720	0.72	0.21	0.50	324.0	15.0	283.2	2.0	0	0.00	91.	1014.	2	NAD-SFC NoSubs
8	11	28	333	13	103.2	0.223	1.289	0.009	751.	253.	-9.7	0.2930	0.72	0.21	1.50	342.0	15.0	285.0	2.0	0	0.00	82.	1013.	2	NAD-SFC NoSubs
8	11	28	333	14	85.7	0.321	1.243	0.010	810.	437.	-34.9	0.2930	0.72	0.23	2.60	347.0	15.0	285.9	2.0	0	0.00	77.	1012.	2	NAD-SFC NoSubs
8	11	28	333	15	54.2	-9.000	-9.000	-9.000	846.	-999.	-99999.0	0.2235	0.72	0.26	0.00	0.0	15.0	286.0	2.0	0	0.00	76.	1011.	2	NAD-SFC NoSubs
8	11	28	333	16	12.0	0.378	0.658	0.010	852.	558.	-404.5	0.2940	0.72	0.36	3.60	23.0	15.0	285.2	2.0	0	0.00	80.	1011.	2	NAD-SFC NoSubs
8	11	28	333	17	-35.5	0.337	-9.000	-9.000	-999.	472.	97.5	0.2470	0.72	0.67	3.60	33.0	15.0	283.6	2.0	0	0.00	91.	1011.	2	NAD-SFC NoSubs
8	11	28	333	18	-24.3	0.239	-9.000	-9.000	-999.	285.	50.6	0.2470	0.72	1.00	2.60	36.0	15.0	282.4	2.0	0	0.00	97.	1011.	2	NAD-SFC NoSubs
8	11	28	333	19	-7.8	0.133	-9.000	-9.000	-999.	123.	27.3	0.2470	0.72	1.00	1.50	49.0	15.0	281.8	2.0	0	0.00	99.	1012.	2	NAD-SFC NoSubs
8	11	28	333	20	-1.6	0.084	-9.000	-9.000	-999.	58.	32.1	0.2470	0.72	1.00	0.50	57.0	15.0	281.2	2.0	0	0.00	100.	1012.	2	NAD-SFC NoSubs
8	11	28	333	21	-1.6	0.082	-9.000	-9.000	-999.	56.	31.8	0.2130	0.72	1.00	0.50	91.0	15.0	281.1	2.0	0	0.00	100.	1012.	2	NAD-SFC NoSubs
8	11	28	333	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	280.9	2.0	0	0.00	100.	1012.	2	NAD-SFC NoSubs
8	11	28	333	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	280.8	2.0	0	0.00	100.	1013.	2	NAD-SFC NoSubs
8	11	28	333	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	280.6	2.0	0	0.00	100.	1012.	2	NAD-SFC NoSubs
8	11	29	334	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	280.4	2.0	0	0.00	100.	1012.	2	NAD-SFC NoSubs
8	11	29	334	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	280.2	2.0	0	0.00	100.	1012.	2	NAD-SFC NoSubs
8	11	29	334	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	279.9	2.0	0	0.00	100.	1011.	2	NAD-SFC NoSubs
8	11	29	334	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	279.8	2.0	0	0.00	100.	1011.	2	NAD-SFC NoSubs
8	11	29	334	5	-1.7	0.085	-9.000	-9.000	-999.	60.	32.4	0.2930	0.72	1.00	0.50	338.0	15.0	279.8	2.0	0	0.00	100.	1011.	2	NAD-SFC NoSubs
8	11	29	334	6	-4.1	0.102	-9.000	-9.000	-999.	78.	23.3	0.2720	0.72	1.00	1.00	327.0	15.0	279.8	2.0	0	0.00	100.	1012.	2	NAD-SFC NoSubs
8	11	29	334	7	-4.2	0.103	-9.000	-9.000	-999.	80.	23.6	0.2930	0.72	1.00	1.00	331.0	15.0	279.9	2.0	0	0.00	100.	1012.	2	NAD-SFC NoSubs
8	11	29	334	8	-2.8	0.094	-9.000	-9.000	-999.	69.	26.4	0.2930	0.72	0.49	1.00	334.0	15.0	279.9	2.0	0	0.00	100.	1012.	2	NAD-SFC NoSubs
8	11	29	334	9	29.8	0.094	0.480	0.018	134.	69.	-2.5	0.2720	0.72	0.31	0.50	316.0	15.0	279.9	2.0	0	0.00	100.	1012.	2	NAD-SFC NoSubs
8	11	29	334	10	67.8	0.105	0.717	0.017	196.	82.	-1.5	0.2720	0.72	0.24	0.50	328.0	15.0	280.1	2.0	0	0.00	99.	1012.	2	NAD-SFC NoSubs
8	11	29	334	11	93.6	0.111	0.895	0.016	276.	89.	-1.3	0.2930	0.72	0.22	0.50	346.0	15.0	281.6	2.0	0	0.00	89.	1011.	2	NAD-SFC NoSubs
8	11	29	334	12	105.6	-9.000	-9.000	-9.000	348.	-999.	-99999.0	0.2235	0.72	0.21	0.00	0.0	15.0	284.5	2.0	0	0.00	73.	1010.	2	NAD-SFC NoSubs
8	11	29	334	13	103.0	0.172	1.056	0.015	411.	171.	-4.4	0.2930	0.72	0.21	1.00	348.0	15.0	286.6	2.0	0	0.00	63.	1009.	2	NAD-SFC NoSubs
8	11	29	334	14	85.7	0.218	1.036	0.015	467.	245.	-11.0	0.2930	0.72	0.23	1.50	352.0	15.0	288.0	2.0	0	0.00	56.	1009.	2	NAD-SFC NoSubs
8	11	29	334	15	54.5	0.310	0.912	0.014	500.	414.	-49.1	0.2930	0.72	0.26	2.60	348.0	15.0	288.5	2.0	0	0.00	54.	1008.	2	NAD-SFC NoSubs
8	11	29	334	16	12.6	0.283	0.562	0.014	507.	362.	-162.7	0.2940	0.72	0.36	2.60	6.0	15.0	288.2	2.0	0	0.00	58.	1008.	2	NAD-SFC NoSubs
8	11	29	334	17	-31.5	0.304	-9.000	-9.000	-999.	401.	79.9	0.2940	0.72	0.67	3.10	24.0	15.0	287.1	2.0	0	0.00	63.	1008.	2	NAD-SFC NoSubs
8	11	29	334	18	-8.4	0.140	-9.000	-9.000	-999.	148.	29.3	0.2940	0.72	1.00	1.50	26.0	15.0	286.1	2.0	0	0.00	67.	1009.	2	NAD-SFC NoSubs
8	11	29	334	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	285.2	2.0	0	0.00	71.	1009.	2	NAD-SFC NoSubs
8	11	29	334	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	284.2	2.0	0	0.00	76.	1009.	2	NAD-SFC NoSubs
8	11	29	334	21	-1.5	0.082	-9.000	-9.000	-999.	56.	31.6	0.2090	0.72	1.00	0.50	71.0	15.0	283.8	2.0	0	0.00	79.	1010.	2	NAD-SFC NoSubs
8	11	29	334	22	-3.7	0.097	-9.000	-9.000	-999.	72.	22.3	0.2090	0.72	1.00	1.00	74.0	15.0	283.2	2.0	0	0.00	81.	1011.	2	NAD-SFC NoSubs
8	11	29	334	23	-3.7	0.097	-9.000	-9.000	-999.	73.	22.3	0.2090	0.72	1.00	1.00	70.0	15.0	282.8	2.0	0	0.00	83.	1011.	2	NAD-SFC NoSubs
8	11	29	334	24	-1.6	0.082	-9.000	-9.000	-999.	56.	31.7	0.2130	0.72	1.00	0.50	104.0	15.0	282.4	2.0	0	0.00	84.	1011.	2	NAD-SFC NoSubs
8	11	30	335	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	282.1	2.0	0	0.00	84.	1011.	2	NAD-SFC NoSubs
8	11	30	335	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	281.8	2.0	0	0.00	85.	1011.	2	NAD-SFC NoSubs
8	11	30	335	3	-1.6	0.083	-9.000	-9.000	-999.	58.	32.1	0.2470	0.72	1.00	0.50	42.0	15.0	281.5	2.0	0	0.00	86.	1010.	2	NAD-SFC NoSubs
8	11	30	335	4	-4.2	0.103	-9.000	-9.000	-999.	79.	23.7	0.2940	0.72	1.00	1.00	14.0	15.0	281.2	2.0	0	0.00	86.	1010.	2	NAD-SFC NoSubs
8	11	30	335	5	-4.2	0.103	-9.000	-9.000	-999.	79.	23.6	0.2930	0.72	1.00	1.00	351.0	15.0	280.9	2.0	0	0.00	87.	1010.	2	NAD-SFC NoSubs
8	11	30	335	6	-1.7	0.085	-9.000	-9.000	-999.	59.	32.3	0.2720	0.72	1.00	0.50	319.0	15.0	280.8	2.0	0	0.00	87.	1010.	2	NAD-SFC NoSubs
8	11	30	335	7	-1.7	0.085	-9.000	-9.000	-999.	59.	32.3	0.2720	0.72	1.00	0.50	315.0	15.0	280.6	2.0	0	0.00	87.	1011.	2	NAD-SFC NoSubs
8	11	30	335	8	-1.0	0.068	-9.000	-9.000	-999.	43.	27.4	0.2930	0.72	0.50	0.50	330.0	15.0	280.6	2.0	0	0.00	87.	1011.	2	NAD-SFC NoSubs
8	11	30	335	9	29.3	-9.000	-9.000	-9.000	67.	-999.	-99999.0	0.2235	0.72	0.31	0.00	0.0	15.0	282.1	2.0	0	0.00	81.	1011.	2	NAD-SFC NoSubs

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 8 11 30 335 10   68.0  0.163  0.678  0.011  165.  159.    -5.8  0.2930  0.72  0.24  1.00  344.0  15.0  285.2  2.0  0  0.00  68.  1011.  2 NAD-SFC NoSubs
 8 11 30 335 11   94.2  0.170  0.894  0.010  274.  168.    -4.7  0.2930  0.72  0.22  1.00  355.0  15.0  287.2  2.0  0  0.00  64.  1011.  2 NAD-SFC NoSubs
 8 11 30 335 12  106.1  0.173  1.026  0.009  367.  172.    -4.4  0.2930  0.72  0.21  1.00  352.0  15.0  288.9  2.0  0  0.00  59.  1010.  2 NAD-SFC NoSubs
 8 11 30 335 13  103.4  0.172  1.121  0.010  490.  171.    -4.4  0.2930  0.72  0.22  1.00  343.0  15.0  290.2  2.0  0  0.00  54.  1009.  2 NAD-SFC NoSubs
 8 11 30 335 14   86.2  0.219  1.122  0.010  589.  245.   -10.9  0.2930  0.72  0.23  1.50  355.0  15.0  291.2  2.0  0  0.00  50.  1008.  2 NAD-SFC NoSubs
 8 11 30 335 15   55.1  0.208  0.996  0.010  644.  228.   -14.7  0.2930  0.72  0.26  1.50  346.0  15.0  291.6  2.0  0  0.00  50.  1008.  2 NAD-SFC NoSubs
 8 11 30 335 16   13.9  0.136  0.635  0.010  659.  122.   -16.4  0.2930  0.72  0.37  1.00  350.0  15.0  293.0  2.0  0  0.00  49.  1007.  2 NAD-SFC NoSubs
 8 11 30 335 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.67  0.00    0.0  15.0  292.2  2.0  0  0.00  53.  1007.  2 NAD-SFC NoSubs
 8 11 30 335 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  290.9  2.0  0  0.00  59.  1007.  2 NAD-SFC NoSubs
 8 11 30 335 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  289.6  2.0  0  0.00  65.  1007.  2 NAD-SFC NoSubs
 8 11 30 335 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  288.5  2.0  0  0.00  70.  1008.  2 NAD-SFC NoSubs
 8 11 30 335 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  287.6  2.0  0  0.00  74.  1008.  2 NAD-SFC NoSubs
 8 11 30 335 22   -1.6  0.083 -9.000 -9.000 -999.  57.    31.9  0.2470  0.72  1.00  0.50   59.0  15.0  286.8  2.0  0  0.00  78.  1008.  2 NAD-SFC NoSubs
 8 11 30 335 23   -3.6  0.097 -9.000 -9.000 -999.  72.    22.3  0.2090  0.72  1.00  1.00   61.0  15.0  286.2  2.0  0  0.00  80.  1008.  2 NAD-SFC NoSubs
 8 11 30 335 24   -1.5  0.081 -9.000 -9.000 -999.  56.    31.6  0.2090  0.72  1.00  0.50   64.0  15.0  285.8  2.0  0  0.00  82.  1008.  2 NAD-SFC NoSubs
 8 12  1 336  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  285.4  2.0  0  0.00  83.  1008.  2 NAD-SFC NoSubs
 8 12  1 336  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  284.9  2.0  0  0.00  86.  1008.  2 NAD-SFC NoSubs
 8 12  1 336  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  284.5  2.0  0  0.00  87.  1008.  2 NAD-SFC NoSubs
 8 12  1 336  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  284.2  2.0  0  0.00  88.  1008.  2 NAD-SFC NoSubs
 8 12  1 336  5   -1.3  0.075 -9.000 -9.000 -999.  49.    29.7  0.0960  0.72  1.00  0.50    1.0  15.0  284.1  2.0  0  0.00  88.  1008.  2 NAD-SFC NoSubs
 8 12  1 336  6   -2.9  0.087 -9.000 -9.000 -999.  61.    19.9  0.0950  0.72  1.00  1.00  347.0  15.0  283.8  2.0  0  0.00  90.  1009.  2 NAD-SFC NoSubs
 8 12  1 336  7   -2.8  0.085 -9.000 -9.000 -999.  59.    19.5  0.0800  0.72  1.00  1.00  325.0  15.0  283.2  2.0  0  0.00  92.  1009.  2 NAD-SFC NoSubs
 8 12  1 336  8   -1.8  0.073 -9.000 -9.000 -999.  47.    18.9  0.0800  0.72  0.50  1.00  321.0  15.0  283.1  2.0  0  0.00  92.  1009.  2 NAD-SFC NoSubs
 8 12  1 336  9   29.9  0.152  0.386  0.013   69.  142.   -10.5  0.0800  0.72  0.30  1.50  328.0  15.0  284.9  2.0  0  0.00  82.  1009.  2 NAD-SFC NoSubs
 8 12  1 336 10   68.9  0.165  0.726  0.012  200.  160.    -5.8  0.0800  0.72  0.23  1.50  321.0  15.0  287.2  2.0  0  0.00  73.  1010.  2 NAD-SFC NoSubs
 8 12  1 336 11   95.4  0.131  0.945  0.011  319.  114.    -2.1  0.0800  0.72  0.21  1.00  325.0  15.0  289.0  2.0  0  0.00  68.  1010.  2 NAD-SFC NoSubs
 8 12  1 336 12  107.6  0.087  1.075  0.010  416.   62.    -1.0  0.0800  0.72  0.20  0.50  324.0  15.0  290.5  2.0  0  0.00  64.  1009.  2 NAD-SFC NoSubs
 8 12  1 336 13  105.0  0.087  1.131  0.009  495.   61.    -1.0  0.0800  0.72  0.21  0.50  318.0  15.0  291.8  2.0  0  0.00  61.  1008.  2 NAD-SFC NoSubs
 8 12  1 336 14   87.8  0.085  1.106  0.008  554.   59.    -1.0  0.0800  0.72  0.22  0.50  324.0  15.0  293.0  2.0  0  0.00  54.  1008.  2 NAD-SFC NoSubs
 8 12  1 336 15   56.5  0.123  0.974  0.008  588.  103.    -3.0  0.0800  0.72  0.25  1.00  324.0  15.0  293.4  2.0  0  0.00  51.  1007.  2 NAD-SFC NoSubs
 8 12  1 336 16   14.3  0.109  0.620  0.008  596.   87.    -8.2  0.0950  0.72  0.36  1.00  332.0  15.0  293.2  2.0  0  0.00  55.  1007.  2 NAD-SFC NoSubs
 8 12  1 336 17   -2.6  0.083 -9.000 -9.000 -999.  57.    19.3  0.0800  0.72  0.67  1.00  329.0  15.0  292.1  2.0  0  0.00  60.  1007.  2 NAD-SFC NoSubs
 8 12  1 336 18   -1.2  0.074 -9.000 -9.000 -999.  48.    29.4  0.0950  0.72  1.00  0.50  339.0  15.0  290.8  2.0  0  0.00  66.  1007.  2 NAD-SFC NoSubs
 8 12  1 336 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  289.4  2.0  0  0.00  73.  1007.  2 NAD-SFC NoSubs
 8 12  1 336 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  288.2  2.0  0  0.00  79.  1007.  2 NAD-SFC NoSubs
 8 12  1 336 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  287.2  2.0  0  0.00  84.  1007.  2 NAD-SFC NoSubs
 8 12  1 336 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  286.6  2.0  0  0.00  87.  1007.  2 NAD-SFC NoSubs
 8 12  1 336 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  286.1  2.0  0  0.00  89.  1007.  2 NAD-SFC NoSubs
 8 12  1 336 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  285.5  2.0  0  0.00  91.  1007.  2 NAD-SFC NoSubs
 8 12  2 337  1   -1.0  0.067 -9.000 -9.000 -999.  42.    26.8  0.0310  0.72  1.00  0.50  113.0  15.0  285.0  2.0  0  0.00  93.  1007.  2 NAD-SFC NoSubs
 8 12  2 337  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  284.4  2.0  0  0.00  95.  1007.  2 NAD-SFC NoSubs
 8 12  2 337  3   -5.2  0.105 -9.000 -9.000 -999.  82.    19.9  0.0800  0.72  1.00  1.50  313.0  15.0  283.2  2.0  0  0.00  98.  1008.  2 NAD-SFC NoSubs
 8 12  2 337  4  -16.7  0.189 -9.000 -9.000 -999. 197.    36.3  0.0950  0.72  1.00  2.60  334.0  15.0  282.4  2.0  0  0.00 100.  1008.  2 NAD-SFC NoSubs
 8 12  2 337  5  -16.7  0.189 -9.000 -9.000 -999. 197.    36.3  0.0950  0.72  1.00  2.60  347.0  15.0  282.2  2.0  0  0.00 100.  1008.  2 NAD-SFC NoSubs
 8 12  2 337  6  -16.7  0.189 -9.000 -9.000 -999. 197.    36.3  0.0950  0.72  1.00  2.60  360.0  15.0  282.2  2.0  0  0.00 100.  1009.  2 NAD-SFC NoSubs
 8 12  2 337  7  -10.7  0.150 -9.000 -9.000 -999. 140.    28.3  0.0950  0.72  1.00  2.10  360.0  15.0  282.1  2.0  0  0.00 100.  1009.  2 NAD-SFC NoSubs
 8 12  2 337  8  -12.8  0.192 -9.000 -9.000 -999. 203.    50.0  0.0950  0.72  0.50  2.60  354.0  15.0  282.2  2.0  0  0.00 100.  1010.  2 NAD-SFC NoSubs
 8 12  2 337  9   30.0  0.237  0.389  0.010   70.  276.   -39.8  0.0950  0.72  0.30  2.60  338.0  15.0  282.4  2.0  0  0.00 100.  1010.  3 NAD-SFC NoSubs
 8 12  2 337 10   68.1  0.252  0.674  0.010  162.  304.   -21.2  0.0950  0.72  0.24  2.60  338.0  15.0  282.4  2.0  0  0.00 100.  1011.  3 NAD-SFC NoSubs
 8 12  2 337 11   93.8  0.222  0.907  0.010  287.  251.   -10.5  0.0950  0.72  0.21  2.10  339.0  15.0  282.2  2.0  0  0.00 100.  1011.  3 NAD-SFC NoSubs
 8 12  2 337 12  105.5  0.178  1.054  0.010  400.  181.    -4.8  0.0950  0.72  0.20  1.50  337.0  15.0  282.6  2.0  0  0.00 100.  1010.  3 NAD-SFC NoSubs
 8 12  2 337 13  102.7  0.136  1.119  0.010  491.  121.    -2.2  0.0950  0.72  0.21  1.00  336.0  15.0  283.2  2.0  0  0.00  98.  1010.  3 NAD-SFC NoSubs
 8 12  2 337 14   85.4  0.169  1.097  0.010  556.  166.    -5.1  0.0800  0.72  0.22  1.50  327.0  15.0  283.6  2.0  0  0.00  96.  1009.  3 NAD-SFC NoSubs
 8 12  2 337 15   54.3  0.161  0.964  0.009  594.  155.    -6.9  0.0800  0.72  0.25  1.50  321.0  15.0  283.8  2.0  0  0.00  96.  1009.  3 NAD-SFC NoSubs
 8 12  2 337 16   12.9  0.094  0.599  0.009  602.   70.    -5.8  0.0420  0.72  0.36  1.00  286.0  15.0  284.0  2.0  0  0.00  96.  1009.  3 NAD-SFC NoSubs
 8 12  2 337 17   -0.9  0.064 -9.000 -9.000 -999.  39.    25.6  0.0220  0.72  0.67  0.50  199.0  15.0  284.0  2.0  0  0.00  97.  1009.  2 NAD-SFC NoSubs
 8 12  2 337 18   -2.2  0.074 -9.000 -9.000 -999.  48.    16.7  0.0220  0.72  1.00  1.00  193.0  15.0  284.1  2.0  0  0.00  97.  1009.  2 NAD-SFC NoSubs
 8 12  2 337 19   -3.8  0.087 -9.000 -9.000 -999.  62.    15.5  0.0220  0.72  1.00  1.50  190.0  15.0  284.1  2.0  0  0.00  96.  1010.  2 NAD-SFC NoSubs
 8 12  2 337 20   -7.1  0.115 -9.000 -9.000 -999.  94.    19.3  0.0220  0.72  1.00  2.10  184.0  15.0  284.2  2.0  0  0.00  96.  1010.  2 NAD-SFC NoSubs
 8 12  2 337 21   -7.3  0.117 -9.000 -9.000 -999.  96.    19.7  0.0240  0.72  1.00  2.10  168.0  15.0  284.2  2.0  0  0.00  95.  1011.  2 NAD-SFC NoSubs
 8 12  2 337 22   -2.2  0.075 -9.000 -9.000 -999.  49.    16.9  0.0240  0.72  1.00  1.00  173.0  15.0  284.2  2.0  0  0.00  95.  1011.  2 NAD-SFC NoSubs
 8 12  2 337 23   -1.0  0.066 -9.000 -9.000 -999.  40.    26.2  0.0240  0.72  1.00  0.50  162.0  15.0  284.1  2.0  0  0.00  94.  1011.  2 NAD-SFC NoSubs
 8 12  2 337 24   -1.0  0.065 -9.000 -9.000 -999.  40.    26.0  0.0220  0.72  1.00  0.50  205.0  15.0  284.0  2.0  0  0.00  94.  1011.  2 NAD-SFC NoSubs
 8 12  3 338  1   -1.2  0.073 -9.000 -9.000 -999.  48.    29.2  0.0800  0.72  1.00  0.50  329.0  15.0  283.9  2.0  0  0.00  95.  1011.  2 NAD-SFC NoSubs
 8 12  3 338  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  283.8  2.0  0  0.00  96.  1011.  2 NAD-SFC NoSubs
 8 12  3 338  3   -0.9  0.065 -9.000 -9.000 -999.  40.    25.8  0.0200  0.72  1.00  0.50  248.0  15.0  283.8  2.0  0  0.00  97.  1010.  2 NAD-SFC NoSubs
 8 12  3 338  4   -1.1  0.069 -9.000 -9.000 -999.  44.    27.6  0.0420  0.72  1.00  0.50  296.0  15.0  283.5  2.0  0  0.00  97.  1010.  2 NAD-SFC NoSubs
 8 12  3 338  5   -1.2  0.074 -9.000 -9.000 -999.  48.    29.2  0.0800  0.72  1.00  0.50  319.0  15.0  283.2  2.0  0  0.00  97.  1010.  2 NAD-SFC NoSubs
 8 12  3 338  6   -1.1  0.069 -9.000 -9.000 -999.  44.    27.6  0.0420  0.72  1.00  0.50  298.0  15.0  283.2  2.0  0  0.00  97.  1011.  2 NAD-SFC NoSubs
 8 12  3 338  7   -5.3  0.105 -9.000 -9.000 -999.  82.    19.9  0.0800  0.72  1.00  1.50  310.0  15.0  283.0  2.0  0  0.00  97.  1011.  2 NAD-SFC NoSubs
 8 12  3 338  8   -4.1  0.103 -9.000 -9.000 -999.  79.    24.1  0.0800  0.72  0.51  1.50  307.0  15.0  282.8  2.0  0  0.00  96.  1011.  2 NAD-SFC NoSubs
 8 12  3 338  9   27.7  0.193  0.676  0.018  403.  204.   -23.6  0.0800  0.72  0.31  2.10  304.0  15.0  282.4  2.0  0  0.00  95.  1012.  2 NAD-SFC NoSubs
 8 12  3 338 10   66.1  0.208  0.923  0.018  429.  227.   -12.3  0.0800  0.72  0.24  2.10  311.0  15.0  282.1  2.0  0  0.00  95.  1012.  2 NAD-SFC NoSubs
 8 12  3 338 11   92.2  0.175  1.058  0.017  463.  177.    -5.3  0.0950  0.72  0.21  1.50  350.0  15.0  282.5  2.0  0  0.00  91.  1012.  2 NAD-SFC NoSubs
 8 12  3 338 12  104.3  0.178  1.130  0.016  500.  181.    -4.9  0.0960  0.72  0.20  1.50   23.0  15.0  283.6  2.0  0  0.00  84.  1011.  2 NAD-SFC NoSubs
 8 12  3 338 13  101.7  0.178  1.146  0.015  533.  180.    -5.0  0.0960  0.72  0.21  1.50   22.0  15.0  284.8  2.0  0  0.00  77.  1010.  2 NAD-SFC NoSubs
 8 12  3 338 14   84.5  0.174  1.095  0.014  559.  174.    -5.6  0.0960  0.72  0.22  1.50    2.0  15.0  285.6  2.0  0  0.00  72.  1010.  2 NAD-SFC NoSubs
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 8 12  3 338 15   53.2  0.210  0.948  0.014  575.  231.    -15.7  0.0950  0.72  0.26   2.10  357.0  15.0  285.8  2.0   0  0.00   71.  1009.    2 NAD-SFC NoSubs
 8 12  3 338 16   11.3  0.187  0.566  0.014  578.  195.    -52.5  0.0960  0.72  0.36   2.10    7.0  15.0  285.2  2.0   0  0.00   76.  1009.    2 NAD-SFC NoSubs
 8 12  3 338 17    4.2 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.67   0.00    0.0  15.0  284.4  2.0   0  0.00   81.  1008.    2 NAD-SFC NoSubs
 8 12  3 338 18   -2.9  0.087 -9.000 -9.000 -999.   61.     19.9  0.0950  0.72  1.00   1.00  357.0  15.0  283.8  2.0   0  0.00   84.  1008.    2 NAD-SFC NoSubs
 8 12  3 338 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  283.2  2.0   0  0.00   86.  1008.    2 NAD-SFC NoSubs
 8 12  3 338 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  282.9  2.0   0  0.00   88.  1008.    2 NAD-SFC NoSubs
 8 12  3 338 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  282.6  2.0   0  0.00   90.  1008.    2 NAD-SFC NoSubs
 8 12  3 338 22   -1.3  0.075 -9.000 -9.000 -999.   49.     29.7  0.0950  0.72  1.00   0.50  339.0  15.0  282.2  2.0   0  0.00   92.  1008.    2 NAD-SFC NoSubs
 8 12  3 338 23   -3.0  0.087 -9.000 -9.000 -999.   62.     20.0  0.0960  0.72  1.00   1.00    7.0  15.0  281.8  2.0   0  0.00   94.  1008.    2 NAD-SFC NoSubs
 8 12  3 338 24   -5.5  0.109 -9.000 -9.000 -999.   86.     20.8  0.0960  0.72  1.00   1.50   18.0  15.0  281.2  2.0   0  0.00   97.  1007.    2 NAD-SFC NoSubs
 8 12  4 339  1   -3.0  0.087 -9.000 -9.000 -999.   62.     20.0  0.0960  0.72  1.00   1.00    8.0  15.0  281.0  2.0   0  0.00   98.  1007.    2 NAD-SFC NoSubs
 8 12  4 339  2   -3.0  0.087 -9.000 -9.000 -999.   62.     20.0  0.0950  0.72  1.00   1.00  353.0  15.0  280.8  2.0   0  0.00   98.  1007.    2 NAD-SFC NoSubs
 8 12  4 339  3   -5.5  0.108 -9.000 -9.000 -999.   86.     20.7  0.0950  0.72  1.00   1.50  344.0  15.0  280.8  2.0   0  0.00   97.  1008.    2 NAD-SFC NoSubs
 8 12  4 339  4   -5.5  0.108 -9.000 -9.000 -999.   86.     20.7  0.0950  0.72  1.00   1.50  341.0  15.0  280.8  2.0   0  0.00   96.  1008.    2 NAD-SFC NoSubs
 8 12  4 339  5  -10.7  0.150 -9.000 -9.000 -999.  139.     28.2  0.0950  0.72  1.00   2.10  338.0  15.0  280.6  2.0   0  0.00   95.  1008.    2 NAD-SFC NoSubs
 8 12  4 339  6   -5.5  0.108 -9.000 -9.000 -999.   86.     20.7  0.0950  0.72  1.00   1.50  333.0  15.0  280.6  2.0   0  0.00   92.  1009.    2 NAD-SFC NoSubs
 8 12  4 339  7   -2.8  0.085 -9.000 -9.000 -999.   60.     19.5  0.0800  0.72  1.00   1.00  312.0  15.0  280.8  2.0   0  0.00   87.  1009.    2 NAD-SFC NoSubs
 8 12  4 339  8   -1.7  0.069 -9.000 -9.000 -999.   43.     16.9  0.0420  0.72  0.51   1.00  295.0  15.0  280.8  2.0   0  0.00   82.  1010.    2 NAD-SFC NoSubs
 8 12  4 339  9   26.7  0.193  0.424  0.013  103.  203.    -24.2  0.0800  0.72  0.31   2.10  312.0  15.0  281.4  2.0   0  0.00   72.  1010.    2 NAD-SFC NoSubs
 8 12  4 339 10   65.3  0.164  0.692  0.013  182.  159.     -6.0  0.0800  0.72  0.24   1.50  327.0  15.0  282.4  2.0   0  0.00   61.  1010.    2 NAD-SFC NoSubs
 8 12  4 339 11   91.7  0.130  0.889  0.012  276.  113.     -2.2  0.0800  0.72  0.21   1.00  323.0  15.0  283.4  2.0   0  0.00   56.  1010.    2 NAD-SFC NoSubs
 8 12  4 339 12  103.8  0.090  1.013  0.011  360.   64.     -1.0  0.0950  0.72  0.20   0.50  332.0  15.0  284.2  2.0   0  0.00   51.  1009.    2 NAD-SFC NoSubs
 8 12  4 339 13  101.4 -9.000 -9.000 -9.000  445. -999. -99999.0  0.0471  0.72  0.21   0.00    0.0  15.0  285.5  2.0   0  0.00   46.  1008.    2 NAD-SFC NoSubs
 8 12  4 339 14   84.3  0.084  1.065  0.010  515.   58.     -1.0  0.0800  0.72  0.22   0.50  300.0  15.0  286.8  2.0   0  0.00   42.  1008.    2 NAD-SFC NoSubs
 8 12  4 339 15   53.3  0.079  0.936  0.010  554.   54.     -1.0  0.0800  0.72  0.26   0.50  324.0  15.0  287.1  2.0   0  0.00   41.  1008.    2 NAD-SFC NoSubs
 8 12  4 339 16   11.6 -9.000 -9.000 -9.000  562. -999. -99999.0  0.0471  0.72  0.36   0.00    0.0  15.0  287.2  2.0   0  0.00   43.  1008.    2 NAD-SFC NoSubs
 8 12  4 339 17   -2.8  0.085 -9.000 -9.000 -999.   60.     19.8  0.0960  0.72  0.67   1.00   18.0  15.0  286.5  2.0   0  0.00   46.  1008.    2 NAD-SFC NoSubs
 8 12  4 339 18   -1.3  0.075 -9.000 -9.000 -999.   49.     29.6  0.0960  0.72  1.00   0.50    7.0  15.0  285.5  2.0   0  0.00   50.  1009.    2 NAD-SFC NoSubs
 8 12  4 339 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  284.2  2.0   0  0.00   56.  1009.    2 NAD-SFC NoSubs
 8 12  4 339 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  283.2  2.0   0  0.00   62.  1010.    2 NAD-SFC NoSubs
 8 12  4 339 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  282.4  2.0   0  0.00   67.  1011.    2 NAD-SFC NoSubs
 8 12  4 339 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  281.8  2.0   0  0.00   71.  1011.    2 NAD-SFC NoSubs
 8 12  4 339 23   -1.2  0.072 -9.000 -9.000 -999.   47.     28.8  0.0650  0.72  1.00   0.50   36.0  15.0  281.2  2.0   0  0.00   73.  1012.    2 NAD-SFC NoSubs
 8 12  4 339 24   -1.2  0.072 -9.000 -9.000 -999.   47.     28.8  0.0650  0.72  1.00   0.50   50.0  15.0  280.8  2.0   0  0.00   75.  1012.    2 NAD-SFC NoSubs
 8 12  5 340  1   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0400  0.72  1.00   0.50   60.0  15.0  280.4  2.0   0  0.00   75.  1012.    2 NAD-SFC NoSubs
 8 12  5 340  2   -2.5  0.079 -9.000 -9.000 -999.   53.     18.0  0.0400  0.72  1.00   1.00   64.0  15.0  280.0  2.0   0  0.00   74.  1012.    2 NAD-SFC NoSubs
 8 12  5 340  3   -2.7  0.083 -9.000 -9.000 -999.   58.     19.0  0.0650  0.72  1.00   1.00   48.0  15.0  279.8  2.0   0  0.00   75.  1012.    2 NAD-SFC NoSubs
 8 12  5 340  4   -5.0  0.102 -9.000 -9.000 -999.   78.     18.9  0.0650  0.72  1.00   1.50   38.0  15.0  279.2  2.0   0  0.00   75.  1012.    2 NAD-SFC NoSubs
 8 12  5 340  5   -3.0  0.087 -9.000 -9.000 -999.   62.     20.0  0.0960  0.72  1.00   1.00   24.0  15.0  279.0  2.0   0  0.00   76.  1012.    2 NAD-SFC NoSubs
 8 12  5 340  6   -5.6  0.109 -9.000 -9.000 -999.   86.     20.7  0.0960  0.72  1.00   1.50    8.0  15.0  278.6  2.0   0  0.00   76.  1013.    2 NAD-SFC NoSubs
 8 12  5 340  7   -5.6  0.109 -9.000 -9.000 -999.   86.     20.7  0.0960  0.72  1.00   1.50   14.0  15.0  278.2  2.0   0  0.00   76.  1013.    2 NAD-SFC NoSubs
 8 12  5 340  8   -4.5  0.107 -9.000 -9.000 -999.   84.     24.2  0.0960  0.72  0.52   1.50    6.0  15.0  278.1  2.0   0  0.00   76.  1013.    2 NAD-SFC NoSubs
 8 12  5 340  9   25.6  0.154  0.356  0.011   63.  145.    -12.9  0.0950  0.72  0.31   1.50  354.0  15.0  279.9  2.0   0  0.00   66.  1014.    2 NAD-SFC NoSubs
 8 12  5 340 10   64.6  0.243  0.642  0.009  148.  288.    -20.2  0.0800  0.72  0.24   2.60  326.0  15.0  282.4  2.0   0  0.00   55.  1014.    2 NAD-SFC NoSubs
 8 12  5 340 11   91.2  0.221  0.863  0.009  255.  250.    -10.7  0.0950  0.72  0.21   2.10  332.0  15.0  284.2  2.0   0  0.00   51.  1014.    2 NAD-SFC NoSubs
 8 12  5 340 12  103.7  0.261  1.019  0.008  368.  320.    -15.4  0.0950  0.72  0.21   2.60  354.0  15.0  286.2  2.0   0  0.00   47.  1013.    2 NAD-SFC NoSubs
 8 12  5 340 13  101.4  0.297  1.104  0.007  480.  389.    -23.4  0.0950  0.72  0.21   3.10  351.0  15.0  287.5  2.0   0  0.00   45.  1012.    2 NAD-SFC NoSubs
 8 12  5 340 14   84.5  0.294  1.095  0.006  562.  382.    -27.0  0.0960  0.72  0.22   3.10    3.0  15.0  288.4  2.0   0  0.00   44.  1012.    2 NAD-SFC NoSubs
 8 12  5 340 15   53.5  0.320  0.966  0.006  608.  434.    -55.2  0.0960  0.72  0.26   3.60    8.0  15.0  288.8  2.0   0  0.00   43.  1012.    2 NAD-SFC NoSubs
 8 12  5 340 16   11.9  0.261  0.589  0.006  618.  322.   -134.8  0.0960  0.72  0.36   3.10   18.0  15.0  288.8  2.0   0  0.00   49.  1012.    2 NAD-SFC NoSubs
 8 12  5 340 17  -28.1  0.269 -9.000 -9.000 -999.  334.     62.3  0.0960  0.72  0.67   3.60   28.0  15.0  287.8  2.0   0  0.00   50.  1012.    2 NAD-SFC NoSubs
 8 12  5 340 18  -14.7  0.175 -9.000 -9.000 -999.  179.     32.7  0.0650  0.72  1.00   2.60   51.0  15.0  286.9  2.0   0  0.00   51.  1013.    2 NAD-SFC NoSubs
 8 12  5 340 19   -4.9  0.101 -9.000 -9.000 -999.   79.     19.0  0.0650  0.72  1.00   1.50   52.0  15.0  285.9  2.0   0  0.00   54.  1013.    2 NAD-SFC NoSubs
 8 12  5 340 20   -1.2  0.072 -9.000 -9.000 -999.   46.     28.6  0.0650  0.72  1.00   0.50   34.0  15.0  284.9  2.0   0  0.00   58.  1013.    2 NAD-SFC NoSubs
 8 12  5 340 21   -1.3  0.075 -9.000 -9.000 -999.   49.     29.7  0.0960  0.72  1.00   0.50   29.0  15.0  284.1  2.0   0  0.00   61.  1014.    2 NAD-SFC NoSubs
 8 12  5 340 22   -1.2  0.072 -9.000 -9.000 -999.   46.     28.7  0.0650  0.72  1.00   0.50   43.0  15.0  283.2  2.0   0  0.00   65.  1014.    2 NAD-SFC NoSubs
 8 12  5 340 23   -1.2  0.072 -9.000 -9.000 -999.   46.     28.7  0.0650  0.72  1.00   0.50   32.0  15.0  282.8  2.0   0  0.00   67.  1015.    2 NAD-SFC NoSubs
 8 12  5 340 24   -1.3  0.075 -9.000 -9.000 -999.   49.     29.8  0.0960  0.72  1.00   0.50    6.0  15.0  282.2  2.0   0  0.00   69.  1014.    2 NAD-SFC NoSubs
 8 12  6 341  1   -3.0  0.087 -9.000 -9.000 -999.   61.     20.0  0.0950  0.72  1.00   1.00  356.0  15.0  281.8  2.0   0  0.00   70.  1014.    2 NAD-SFC NoSubs
 8 12  6 341  2   -1.3  0.075 -9.000 -9.000 -999.   49.     29.8  0.0950  0.72  1.00   0.50  340.0  15.0  281.2  2.0   0  0.00   72.  1014.    2 NAD-SFC NoSubs
 8 12  6 341  3   -1.2  0.074 -9.000 -9.000 -999.   48.     29.3  0.0800  0.72  1.00   0.50  320.0  15.0  280.8  2.0   0  0.00   73.  1014.    2 NAD-SFC NoSubs
 8 12  6 341  4   -2.9  0.085 -9.000 -9.000 -999.   60.     19.5  0.0800  0.72  1.00   1.00  326.0  15.0  280.4  2.0   0  0.00   74.  1014.    2 NAD-SFC NoSubs
 8 12  6 341  5   -3.0  0.087 -9.000 -9.000 -999.   62.     20.0  0.0950  0.72  1.00   1.00  354.0  15.0  280.1  2.0   0  0.00   76.  1014.    2 NAD-SFC NoSubs
 8 12  6 341  6   -3.0  0.087 -9.000 -9.000 -999.   62.     20.0  0.0950  0.72  1.00   1.00  360.0  15.0  279.8  2.0   0  0.00   76.  1014.    2 NAD-SFC NoSubs
 8 12  6 341  7   -3.0  0.087 -9.000 -9.000 -999.   62.     20.0  0.0960  0.72  1.00   1.00    5.0  15.0  279.5  2.0   0  0.00   77.  1014.    2 NAD-SFC NoSubs
 8 12  6 341  8   -0.9  0.064 -9.000 -9.000 -999.   39.     26.3  0.0950  0.72  0.52   0.50  350.0  15.0  279.4  2.0   0  0.00   76.  1015.    2 NAD-SFC NoSubs
 8 12  6 341  9   25.0  0.074  0.355  0.014   65.   48.     -1.5  0.0950  0.72  0.31   0.50  334.0  15.0  280.5  2.0   0  0.00   70.  1015.    2 NAD-SFC NoSubs
 8 12  6 341 10   64.1  0.207  0.648  0.008  154.  226.    -12.6  0.0800  0.72  0.24   2.10  307.0  15.0  283.4  2.0   0  0.00   53.  1015.    2 NAD-SFC NoSubs
 8 12  6 341 11   90.8  0.214  0.871  0.007  264.  238.     -9.8  0.0800  0.72  0.21   2.10  324.0  15.0  285.1  2.0   0  0.00   51.  1015.    2 NAD-SFC NoSubs
 8 12  6 341 12  103.4  0.253  1.023  0.006  375.  305.    -14.1  0.0800  0.72  0.21   2.60  326.0  15.0  287.0  2.0   0  0.00   46.  1014.    2 NAD-SFC NoSubs
 8 12  6 341 13  101.2  0.260  1.132  0.006  518.  319.    -15.7  0.0950  0.72  0.21   2.60  339.0  15.0  288.2  2.0   0  0.00   44.  1013.    2 NAD-SFC NoSubs
 8 12  6 341 14   84.3  0.256  1.132  0.006  622.  311.    -18.0  0.0950  0.72  0.22   2.60  344.0  15.0  289.1  2.0   0  0.00   44.  1012.    2 NAD-SFC NoSubs
 8 12  6 341 15   53.5  0.247  1.003  0.006  680.  295.    -25.4  0.0950  0.72  0.26   2.60  354.0  15.0  289.4  2.0   0  0.00   45.  1012.    2 NAD-SFC NoSubs
 8 12  6 341 16   11.9  0.188  0.612  0.006  693.  197.    -50.2  0.0960  0.72  0.36   2.10    2.0  15.0  289.1  2.0   0  0.00   50.  1012.    2 NAD-SFC NoSubs
 8 12  6 341 17    4.5 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.67   0.00    0.0  15.0  288.1  2.0   0  0.00   54.  1011.    2 NAD-SFC NoSubs
 8 12  6 341 18   -2.9  0.086 -9.000 -9.000 -999.   61.     19.9  0.0950  0.72  1.00   1.00  351.0  15.0  286.9  2.0   0  0.00   59.  1011.    2 NAD-SFC NoSubs
 8 12  6 341 19   -1.1  0.069 -9.000 -9.000 -999.   43.     27.5  0.0420  0.72  1.00   0.50  288.0  15.0  285.8  2.0   0  0.00   64.  1011.    2 NAD-SFC NoSubs
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 8 12   6 341 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 284.6  2.0   0  0.00  69. 1012.   2 NAD-SFC NoSubs
 8 12   6 341 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 283.6  2.0   0  0.00  73. 1012.   2 NAD-SFC NoSubs
 8 12   6 341 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 282.8  2.0   0  0.00  76. 1012.   2 NAD-SFC NoSubs
 8 12   6 341 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 282.1  2.0   0  0.00  78. 1012.   2 NAD-SFC NoSubs
 8 12   6 341 24   -1.2  0.072 -9.000 -9.000 -999.   47.     28.8  0.0650  0.72  1.00  0.50  57.0  15.0 281.5  2.0   0  0.00  78. 1011.   2 NAD-SFC NoSubs
 8 12   7 342  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 281.0  2.0   0  0.00  79. 1011.   2 NAD-SFC NoSubs
 8 12   7 342  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 280.6  2.0   0  0.00  79. 1011.   2 NAD-SFC NoSubs
 8 12   7 342  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 280.2  2.0   0  0.00  80. 1011.   2 NAD-SFC NoSubs
 8 12   7 342  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 279.9  2.0   0  0.00  80. 1010.   2 NAD-SFC NoSubs
 8 12   7 342  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 279.6  2.0   0  0.00  80. 1010.   2 NAD-SFC NoSubs
 8 12   7 342  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 279.2  2.0   0  0.00  79. 1010.   2 NAD-SFC NoSubs
 8 12   7 342  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 279.1  2.0   0  0.00  79. 1010.   2 NAD-SFC NoSubs
 8 12   7 342  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.53  0.00   0.0  15.0 278.9  2.0   0  0.00  79. 1010.   2 NAD-SFC NoSubs
 8 12   7 342  9   24.2 -9.000 -9.000 -9.000   58. -999. -99999.0  0.0471  0.72  0.31  0.00   0.0  15.0 280.1  2.0   0  0.00  76. 1010.   2 NAD-SFC NoSubs
 8 12   7 342 10   63.4 -9.000 -9.000 -9.000  149. -999. -99999.0  0.0471  0.72  0.24  0.00   0.0  15.0 283.4  2.0   0  0.00  62. 1010.   2 NAD-SFC NoSubs
 8 12   7 342 11   90.2  0.075  0.861  0.008  255.  50.     -1.0  0.0420  0.72  0.21  0.50 299.0  15.0 285.2  2.0   0  0.00  58. 1010.   2 NAD-SFC NoSubs
 8 12   7 342 12  102.8  0.132  1.003  0.006  353. 115.     -2.0  0.0800  0.72  0.21  1.00 306.0  15.0 286.8  2.0   0  0.00  52. 1009.   2 NAD-SFC NoSubs
 8 12   7 342 13  100.7  0.172  1.104  0.005  480. 171.     -4.5  0.0800  0.72  0.21  1.50 316.0  15.0 287.9  2.0   0  0.00  45. 1008.   2 NAD-SFC NoSubs
 8 12   7 342 14   83.8  0.168  1.115  0.005  595. 166.     -5.1  0.0800  0.72  0.22  1.50 315.0  15.0 288.4  2.0   0  0.00  43. 1007.   2 NAD-SFC NoSubs
 8 12   7 342 15   53.0  0.160  0.991  0.005  658. 154.     -7.0  0.0800  0.72  0.26  1.50 306.0  15.0 288.6  2.0   0  0.00  43. 1006.   2 NAD-SFC NoSubs
 8 12   7 342 16   11.6  0.104  0.602  0.005  671.  81.     -8.6  0.0800  0.72  0.36  1.00 317.0  15.0 288.4  2.0   0  0.00  46. 1006.   2 NAD-SFC NoSubs
 8 12   7 342 17   -1.1  0.070 -9.000 -9.000 -999.  45.     28.2  0.0650  0.72  0.67  0.50  46.0  15.0 287.8  2.0   0  0.00  49. 1006.   2 NAD-SFC NoSubs
 8 12   7 342 18   -1.0  0.067 -9.000 -9.000 -999.  41.     26.7  0.0310  0.72  1.00  0.50  96.0  15.0 286.9  2.0   0  0.00  54. 1006.   2 NAD-SFC NoSubs
 8 12   7 342 19   -2.3  0.076 -9.000 -9.000 -999.  50.     17.2  0.0280  0.72  1.00  1.00 125.0  15.0 285.8  2.0   0  0.00  60. 1006.   2 NAD-SFC NoSubs
 8 12   7 342 20   -1.0  0.067 -9.000 -9.000 -999.  42.     26.8  0.0310  0.72  1.00  0.50 112.0  15.0 284.6  2.0   0  0.00  65. 1006.   2 NAD-SFC NoSubs
 8 12   7 342 21   -1.0  0.067 -9.000 -9.000 -999.  42.     26.8  0.0310  0.72  1.00  0.50  92.0  15.0 283.6  2.0   0  0.00  70. 1007.   2 NAD-SFC NoSubs
 8 12   7 342 22   -1.0  0.067 -9.000 -9.000 -999.  42.     26.9  0.0310  0.72  1.00  0.50 110.0  15.0 282.8  2.0   0  0.00  74. 1007.   2 NAD-SFC NoSubs
 8 12   7 342 23   -2.3  0.077 -9.000 -9.000 -999.  51.     17.4  0.0310  0.72  1.00  1.00 118.0  15.0 281.9  2.0   0  0.00  78. 1007.   2 NAD-SFC NoSubs
 8 12   7 342 24   -2.3  0.076 -9.000 -9.000 -999.  50.     17.2  0.0280  0.72  1.00  1.00 123.0  15.0 281.4  2.0   0  0.00  80. 1007.   2 NAD-SFC NoSubs
 8 12   8 343  1   -1.0  0.067 -9.000 -9.000 -999.  42.     26.9  0.0310  0.72  1.00  0.50 103.0  15.0 281.0  2.0   0  0.00  81. 1007.   2 NAD-SFC NoSubs
 8 12   8 343  2   -1.2  0.074 -9.000 -9.000 -999.  48.     29.3  0.0800  0.72  1.00  0.50 312.0  15.0 280.4  2.0   0  0.00  83. 1007.   2 NAD-SFC NoSubs
 8 12   8 343  3   -1.2  0.074 -9.000 -9.000 -999.  48.     29.4  0.0800  0.72  1.00  0.50 312.0  15.0 280.0  2.0   0  0.00  84. 1007.   2 NAD-SFC NoSubs
 8 12   8 343  4   -2.8  0.085 -9.000 -9.000 -999.  60.     19.6  0.0800  0.72  1.00  1.00 301.0  15.0 279.8  2.0   0  0.00  84. 1007.   2 NAD-SFC NoSubs
 8 12   8 343  5   -2.5  0.079 -9.000 -9.000 -999.  54.     18.1  0.0420  0.72  1.00  1.00 294.0  15.0 279.8  2.0   0  0.00  83. 1007.   2 NAD-SFC NoSubs
 8 12   8 343  6   -1.1  0.069 -9.000 -9.000 -999.  44.     27.7  0.0420  0.72  1.00  0.50 287.0  15.0 279.8  2.0   0  0.00  83. 1007.   2 NAD-SFC NoSubs
 8 12   8 343  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 279.9  2.0   0  0.00  83. 1007.   2 NAD-SFC NoSubs
 8 12   8 343  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.53  0.00   0.0  15.0 279.8  2.0   0  0.00  83. 1007.   2 NAD-SFC NoSubs
 8 12   8 343  9   23.6 -9.000 -9.000 -9.000   71. -999. -99999.0  0.0471  0.72  0.32  0.00   0.0  15.0 280.8  2.0   0  0.00  80. 1007.   2 NAD-SFC NoSubs
 8 12   8 343 10   62.6 -9.000 -9.000 -9.000  188. -999. -99999.0  0.0471  0.72  0.24  0.00   0.0  15.0 282.9  2.0   0  0.00  70. 1008.   2 NAD-SFC NoSubs
 8 12   8 343 11   89.5 -9.000 -9.000 -9.000  362. -999. -99999.0  0.0471  0.72  0.21  0.00   0.0  15.0 284.8  2.0   0  0.00  61. 1007.   2 NAD-SFC NoSubs
 8 12   8 343 12  102.0  0.132  1.156  0.006  544. 115.     -2.0  0.0800  0.72  0.21  1.00 319.0  15.0 285.8  2.0   0  0.00  56. 1006.   2 NAD-SFC NoSubs
 8 12   8 343 13   99.9  0.216  1.236  0.007  679. 242.     -9.1  0.0800  0.72  0.21  2.10 321.0  15.0 286.5  2.0   0  0.00  53. 1006.   2 NAD-SFC NoSubs
 8 12   8 343 14   84.1  0.249  1.212  0.007  758. 298.    -16.4  0.0800  0.72  0.22  2.60 325.0  15.0 287.1  2.0   0  0.00  51. 1005.   3 NAD-SFC NoSubs
 8 12   8 343 15   53.8  0.320  1.065  0.007  805. 434.    -54.4  0.0950  0.72  0.26  3.60 335.0  15.0 287.4  2.0   0  0.00  52. 1005.   3 NAD-SFC NoSubs
 8 12   8 343 16   12.9  0.225  0.665  0.007  816. 260.    -79.1  0.0950  0.72  0.36  2.60 333.0  15.0 287.2  2.0   0  0.00  61. 1004.   3 NAD-SFC NoSubs
 8 12   8 343 17  -10.3  0.150 -9.000 -9.000 -999. 142.     29.7  0.0950  0.72  0.67  2.10 332.0  15.0 286.8  2.0   0  0.00  65. 1004.   3 NAD-SFC NoSubs
 8 12   8 343 18   -2.7  0.084 -9.000 -9.000 -999.  60.     19.4  0.0800  0.72  1.00  1.00 324.0  15.0 285.8  2.0   0  0.00  70. 1005.   3 NAD-SFC NoSubs
 8 12   8 343 19   -1.2  0.073 -9.000 -9.000 -999.  47.     28.9  0.0800  0.72  1.00  0.50 324.0  15.0 285.0  2.0   0  0.00  74. 1006.   3 NAD-SFC NoSubs
 8 12   8 343 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 284.1  2.0   0  0.00  78. 1006.   3 NAD-SFC NoSubs
 8 12   8 343 21   -2.2  0.074 -9.000 -9.000 -999.  48.     16.8  0.0240  0.72  1.00  1.00 151.0  15.0 283.1  2.0   0  0.00  83. 1007.   3 NAD-SFC NoSubs
 8 12   8 343 22   -7.2  0.117 -9.000 -9.000 -999.  96.     19.9  0.0240  0.72  1.00  2.10 155.0  15.0 282.4  2.0   0  0.00  85. 1008.   3 NAD-SFC NoSubs
 8 12   8 343 23  -11.7  0.150 -9.000 -9.000 -999. 139.     25.8  0.0280  0.72  1.00  2.60 147.0  15.0 281.9  2.0   0  0.00  87. 1008.   2 NAD-SFC NoSubs
 8 12   8 343 24  -11.3  0.146 -9.000 -9.000 -999. 134.     24.8  0.0240  0.72  1.00  2.60 157.0  15.0 281.5  2.0   0  0.00  88. 1008.   2 NAD-SFC NoSubs
 8 12   9 344  1   -7.1  0.115 -9.000 -9.000 -999.  94.     19.2  0.0220  0.72  1.00  2.10 194.0  15.0 281.2  2.0   0  0.00  88. 1008.   2 NAD-SFC NoSubs
 8 12   9 344  2   -7.1  0.115 -9.000 -9.000 -999.  94.     19.2  0.0220  0.72  1.00  2.10 235.0  15.0 280.8  2.0   0  0.00  88. 1009.   2 NAD-SFC NoSubs
 8 12   9 344  3  -10.8  0.142 -9.000 -9.000 -999. 128.     23.7  0.0200  0.72  1.00  2.60 258.0  15.0 280.5  2.0   0  0.00  87. 1009.   2 NAD-SFC NoSubs
 8 12   9 344  4  -21.4  0.202 -9.000 -9.000 -999. 217.     34.6  0.0200  0.72  1.00  3.60 267.0  15.0 279.9  2.0   0  0.00  86. 1010.   2 NAD-SFC NoSubs
 8 12   9 344  5  -29.2  0.262 -9.000 -9.000 -999. 322.     55.4  0.0420  0.72  1.00  4.10 295.0  15.0 279.2  2.0   0  0.00  84. 1010.   2 NAD-SFC NoSubs
 8 12   9 344  6  -25.5  0.228 -9.000 -9.000 -999. 262.     42.0  0.0420  0.72  1.00  3.60 293.0  15.0 278.8  2.0   0  0.00  83. 1011.   2 NAD-SFC NoSubs
 8 12   9 344  7  -13.2  0.161 -9.000 -9.000 -999. 156.     28.4  0.0420  0.72  1.00  2.60 292.0  15.0 278.2  2.0   0  0.00  80. 1012.   2 NAD-SFC NoSubs
 8 12   9 344  8  -13.9  0.184 -9.000 -9.000 -999. 190.     40.6  0.0800  0.72  0.54  2.60 303.0  15.0 278.1  2.0   0  0.00  78. 1013.   2 NAD-SFC NoSubs
 8 12   9 344  9   22.7  0.225  0.365  0.007   77. 257.    -45.6  0.0800  0.72  0.32  2.60 312.0  15.0 279.5  2.0   0  0.00  67. 1013.   2 NAD-SFC NoSubs
 8 12   9 344 10   61.6  0.206  0.716  0.007  216. 225.    -12.9  0.0800  0.72  0.24  2.10 306.0  15.0 281.2  2.0   0  0.00  58. 1014.   2 NAD-SFC NoSubs
 8 12   9 344 11   88.5  0.169  0.980  0.007  384. 167.     -4.9  0.0800  0.72  0.22  1.50 313.0  15.0 283.2  2.0   0  0.00  49. 1014.   2 NAD-SFC NoSubs
 8 12   9 344 12  101.3  0.132  1.147  0.008  538. 115.     -2.0  0.0800  0.72  0.21  1.00 306.0  15.0 284.9  2.0   0  0.00  44. 1013.   2 NAD-SFC NoSubs
 8 12   9 344 13   99.4  0.171  1.217  0.009  655. 170.     -4.6  0.0800  0.72  0.21  1.50 316.0  15.0 286.0  2.0   0  0.00  42. 1013.   2 NAD-SFC NoSubs
 8 12   9 344 14   82.7  0.219  1.180  0.009  718. 246.    -11.5  0.0950  0.72  0.22  2.10 340.0  15.0 286.8  2.0   0  0.00  41. 1013.   2 NAD-SFC NoSubs
 8 12   9 344 15   52.2  0.210  1.029  0.009  754. 231.    -16.1  0.0960  0.72  0.26  2.10   5.0  15.0 287.0  2.0   0  0.00  41. 1013.   2 NAD-SFC NoSubs
 8 12   9 344 16   11.0  0.175  0.615  0.009  761. 176.    -43.7  0.0650  0.72  0.36  2.10  31.0  15.0 286.8  2.0   0  0.00  45. 1014.   2 NAD-SFC NoSubs
 8 12   9 344 17  -14.5  0.175 -9.000 -9.000 -999. 176.     33.3  0.0650  0.72  0.67  2.60  48.0  15.0 285.8  2.0   0  0.00  50. 1014.   2 NAD-SFC NoSubs
 8 12   9 344 18   -8.3  0.127 -9.000 -9.000 -999. 109.     22.3  0.0400  0.72  1.00  2.10  61.0  15.0 284.8  2.0   0  0.00  54. 1015.   2 NAD-SFC NoSubs
 8 12   9 344 19   -5.0  0.101 -9.000 -9.000 -999.  78.     19.0  0.0650  0.72  1.00  1.50  48.0  15.0 283.6  2.0   0  0.00  60. 1015.   2 NAD-SFC NoSubs
 8 12   9 344 20   -3.0  0.087 -9.000 -9.000 -999.  62.     20.0  0.0960  0.72  1.00  1.00  17.0  15.0 282.6  2.0   0  0.00  65. 1015.   2 NAD-SFC NoSubs
 8 12   9 344 21   -3.0  0.087 -9.000 -9.000 -999.  62.     20.0  0.0960  0.72  1.00  1.00  10.0  15.0 281.8  2.0   0  0.00  70. 1015.   2 NAD-SFC NoSubs
 8 12   9 344 22   -1.2  0.072 -9.000 -9.000 -999.  47.     28.8  0.0650  0.72  1.00  0.50  36.0  15.0 281.1  2.0   0  0.00  73. 1016.   2 NAD-SFC NoSubs
 8 12   9 344 23   -1.0  0.066 -9.000 -9.000 -999.  40.     26.1  0.0220  0.72  1.00  0.50 184.0  15.0 280.4  2.0   0  0.00  76. 1016.   2 NAD-SFC NoSubs
 8 12   9 344 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 279.8  2.0   0  0.00  78. 1016.   2 NAD-SFC NoSubs
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 8 12 10 345  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 279.2  2.0   0  0.00  79. 1016.   2 NAD-SFC NoSubs
 8 12 10 345  2   -1.0  0.065 -9.000 -9.000 -999.  40.     26.0  0.0200  0.72  1.00  0.50 248.0  15.0 278.8  2.0   0  0.00  80. 1016.   2 NAD-SFC NoSubs
 8 12 10 345  3   -1.1  0.070 -9.000 -9.000 -999.  44.     27.7  0.0420  0.72  1.00  0.50 270.0  15.0 278.5  2.0   0  0.00  78. 1016.   2 NAD-SFC NoSubs
 8 12 10 345  4   -2.9  0.085 -9.000 -9.000 -999.  60.     19.6  0.0800  0.72  1.00  1.00 312.0  15.0 278.2  2.0   0  0.00  78. 1017.   2 NAD-SFC NoSubs
 8 12 10 345  5   -3.0  0.087 -9.000 -9.000 -999.  62.     20.0  0.0950  0.72  1.00  1.00 345.0  15.0 278.0  2.0   0  0.00  79. 1017.   2 NAD-SFC NoSubs
 8 12 10 345  6   -3.0  0.087 -9.000 -9.000 -999.  62.     20.0  0.0950  0.72  1.00  1.00 350.0  15.0 277.8  2.0   0  0.00  80. 1017.   2 NAD-SFC NoSubs
 8 12 10 345  7   -1.3  0.075 -9.000 -9.000 -999.  50.     29.9  0.0950  0.72  1.00  0.50 333.0  15.0 277.4  2.0   0  0.00  81. 1017.   2 NAD-SFC NoSubs
 8 12 10 345  8   -1.0  0.066 -9.000 -9.000 -999.  41.     26.7  0.0800  0.72  0.54  0.50 302.0  15.0 277.2  2.0   0  0.00  81. 1018.   2 NAD-SFC NoSubs
 8 12 10 345  9   21.9  0.110  0.339  0.013  64.   88.     -5.6  0.0800  0.72  0.32  1.00 309.0  15.0 278.8  2.0   0  0.00  70. 1018.   2 NAD-SFC NoSubs
 8 12 10 345 10   60.9  0.162  0.684  0.012 190.  157.     -6.4  0.0800  0.72  0.24  1.50 311.0  15.0 280.9  2.0   0  0.00  59. 1018.   2 NAD-SFC NoSubs
 8 12 10 345 11   87.9  0.130  0.902  0.011 303.  112.     -2.2  0.0800  0.72  0.22  1.00 320.0  15.0 282.8  2.0   0  0.00  53. 1017.   2 NAD-SFC NoSubs
 8 12 10 345 12  100.7  0.136  1.031  0.009 394.  120.     -2.3  0.0950  0.72  0.21  1.00 340.0  15.0 284.2  2.0   0  0.00  50. 1016.   2 NAD-SFC NoSubs
 8 12 10 345 13   99.0  0.136  1.088  0.008 471.  120.     -2.3  0.0950  0.72  0.21  1.00 338.0  15.0 285.8  2.0   0  0.00  47. 1015.   2 NAD-SFC NoSubs
 8 12 10 345 14   82.5  0.133  1.063  0.008 527.  116.     -2.6  0.0950  0.72  0.22  1.00 341.0  15.0 286.8  2.0   0  0.00  42. 1015.   2 NAD-SFC NoSubs
 8 12 10 345 15   52.2  0.126  0.931  0.008 560.  107.     -3.4  0.0950  0.72  0.26  1.00 346.0  15.0 287.2  2.0   0  0.00  41. 1014.   2 NAD-SFC NoSubs
 8 12 10 345 16   11.3  0.144  0.561  0.008 567.  131.    -23.9  0.0960  0.72  0.36  1.50   2.0  15.0 287.5  2.0   0  0.00  40. 1014.   2 NAD-SFC NoSubs
 8 12 10 345 17   -5.4  0.108 -9.000 -9.000 -999.  85.     21.1  0.0960  0.72  0.67  1.50   7.0  15.0 286.6  2.0   0  0.00  44. 1013.   2 NAD-SFC NoSubs
 8 12 10 345 18   -5.5  0.108 -9.000 -9.000 -999.  86.     20.9  0.0960  0.72  1.00  1.50  24.0  15.0 285.4  2.0   0  0.00  48. 1013.   2 NAD-SFC NoSubs
 8 12 10 345 19   -3.0  0.087 -9.000 -9.000 -999.  61.     20.0  0.0960  0.72  1.00  1.00  23.0  15.0 284.2  2.0   0  0.00  53. 1013.   2 NAD-SFC NoSubs
 8 12 10 345 20   -1.3  0.075 -9.000 -9.000 -999.  49.     29.7  0.0960  0.72  1.00  0.50  24.0  15.0 283.0  2.0   0  0.00  58. 1013.   2 NAD-SFC NoSubs
 8 12 10 345 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 282.1  2.0   0  0.00  63. 1013.   2 NAD-SFC NoSubs
 8 12 10 345 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 281.4  2.0   0  0.00  66. 1013.   2 NAD-SFC NoSubs
 8 12 10 345 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 280.8  2.0   0  0.00  69. 1013.   2 NAD-SFC NoSubs
 8 12 10 345 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 280.2  2.0   0  0.00  72. 1013.   2 NAD-SFC NoSubs
 8 12 11 346  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 279.8  2.0   0  0.00  73. 1012.   2 NAD-SFC NoSubs
 8 12 11 346  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 279.5  2.0   0  0.00  74. 1012.   2 NAD-SFC NoSubs
 8 12 11 346  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 279.2  2.0   0  0.00  75. 1012.   2 NAD-SFC NoSubs
 8 12 11 346  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 278.9  2.0   0  0.00  76. 1011.   2 NAD-SFC NoSubs
 8 12 11 346  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 278.6  2.0   0  0.00  76. 1011.   2 NAD-SFC NoSubs
 8 12 11 346  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 278.4  2.0   0  0.00  77. 1011.   2 NAD-SFC NoSubs
 8 12 11 346  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 278.2  2.0   0  0.00  77. 1011.   2 NAD-SFC NoSubs
 8 12 11 346  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.55  0.00   0.0  15.0 277.9  2.0   0  0.00  78. 1011.   2 NAD-SFC NoSubs
 8 12 11 346  9   21.2 -9.000 -9.000 -9.000  56. -999. -99999.0  0.0471  0.72  0.32  0.00   0.0  15.0 278.1  2.0   0  0.00  78. 1011.   2 NAD-SFC NoSubs
 8 12 11 346 10   60.3 -9.000 -9.000 -9.000 144. -999. -99999.0  0.0471  0.72  0.24  0.00   0.0  15.0 281.0  2.0   0  0.00  64. 1011.   2 NAD-SFC NoSubs
 8 12 11 346 11   87.5  0.085  0.843  0.015 247.  59.     -1.0  0.0800  0.72  0.22  0.50 311.0  15.0 283.2  2.0   0  0.00  53. 1010.   2 NAD-SFC NoSubs
 8 12 11 346 12  100.4  0.086  0.979  0.014 336.  61.     -1.0  0.0800  0.72  0.21  0.50 319.0  15.0 284.8  2.0   0  0.00  49. 1009.   2 NAD-SFC NoSubs
 8 12 11 346 13   98.6  0.131  1.036  0.013 406. 114.     -2.1  0.0800  0.72  0.21  1.00 328.0  15.0 285.6  2.0   0  0.00  47. 1009.   2 NAD-SFC NoSubs
 8 12 11 346 14   82.2  0.133  1.015  0.012 458. 116.     -2.6  0.0950  0.72  0.22  1.00 335.0  15.0 286.1  2.0   0  0.00  47. 1008.   2 NAD-SFC NoSubs
 8 12 11 346 15   51.8  0.082  0.890  0.012 488.  56.     -1.0  0.0950  0.72  0.26  0.50 335.0  15.0 286.1  2.0   0  0.00  50. 1007.   2 NAD-SFC NoSubs
 8 12 11 346 16   10.8 -9.000 -9.000 -9.000 494. -999. -99999.0  0.0471  0.72  0.36  0.00   0.0  15.0 285.8  2.0   0  0.00  53. 1006.   2 NAD-SFC NoSubs
 8 12 11 346 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.67  0.00   0.0  15.0 284.8  2.0   0  0.00  58. 1006.   2 NAD-SFC NoSubs
 8 12 11 346 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 284.0  2.0   0  0.00  63. 1006.   2 NAD-SFC NoSubs
 8 12 11 346 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 283.2  2.0   0  0.00  67. 1006.   2 NAD-SFC NoSubs
 8 12 11 346 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 282.8  2.0   0  0.00  70. 1006.   2 NAD-SFC NoSubs
 8 12 11 346 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 282.4  2.0   0  0.00  71. 1006.   2 NAD-SFC NoSubs
 8 12 11 346 22   -1.2  0.072 -9.000 -9.000 -999.  47.     28.7  0.0650  0.72  1.00  0.50  35.0  15.0 282.1  2.0   0  0.00  72. 1006.   2 NAD-SFC NoSubs
 8 12 11 346 23   -1.3  0.075 -9.000 -9.000 -999.  49.     29.8  0.0960  0.72  1.00  0.50  18.0  15.0 281.8  2.0   0  0.00  74. 1006.   2 NAD-SFC NoSubs
 8 12 11 346 24   -1.3  0.075 -9.000 -9.000 -999.  49.     29.8  0.0960  0.72  1.00  0.50   7.0  15.0 281.5  2.0   0  0.00  74. 1005.   2 NAD-SFC NoSubs
 8 12 12 347  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 281.2  2.0   0  0.00  76. 1005.   2 NAD-SFC NoSubs
 8 12 12 347  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 281.0  2.0   0  0.00  77. 1004.   2 NAD-SFC NoSubs
 8 12 12 347  3   -1.2  0.074 -9.000 -9.000 -999.  48.     29.3  0.0800  0.72  1.00  0.50 316.0  15.0 280.8  2.0   0  0.00  77. 1004.   2 NAD-SFC NoSubs
 8 12 12 347  4   -3.0  0.087 -9.000 -9.000 -999.  62.     20.0  0.0950  0.72  1.00  1.00 337.0  15.0 280.8  2.0   0  0.00  76. 1004.   2 NAD-SFC NoSubs
 8 12 12 347  5   -3.0  0.087 -9.000 -9.000 -999.  62.     20.0  0.0950  0.72  1.00  1.00 340.0  15.0 280.5  2.0   0  0.00  74. 1003.   2 NAD-SFC NoSubs
 8 12 12 347  6   -2.8  0.085 -9.000 -9.000 -999.  60.     19.5  0.0800  0.72  1.00  1.00 329.0  15.0 280.2  2.0   0  0.00  74. 1003.   2 NAD-SFC NoSubs
 8 12 12 347  7   -2.8  0.085 -9.000 -9.000 -999.  60.     19.6  0.0800  0.72  1.00  1.00 316.0  15.0 279.8  2.0   0  0.00  73. 1003.   2 NAD-SFC NoSubs
 8 12 12 347  8   -1.0  0.067 -9.000 -9.000 -999.  41.     26.9  0.0800  0.72  0.55  0.50 310.0  15.0 279.4  2.0   0  0.00  74. 1004.   2 NAD-SFC NoSubs
 8 12 12 347  9   20.9  0.110  0.342  0.015  68.   88.     -5.7  0.0800  0.72  0.32  1.00 307.0  15.0 280.4  2.0   0  0.00  68. 1004.   2 NAD-SFC NoSubs
 8 12 12 347 10   60.0  0.124  0.651  0.013 164.  105.     -2.8  0.0800  0.72  0.24  1.00 306.0  15.0 282.5  2.0   0  0.00  61. 1003.   2 NAD-SFC NoSubs
 8 12 12 347 11   87.2  0.085  0.860  0.012 261.  59.     -1.0  0.0800  0.72  0.22  0.50 319.0  15.0 284.1  2.0   0  0.00  56. 1003.   2 NAD-SFC NoSubs
 8 12 12 347 12  100.3  0.086  0.989  0.011 344.  61.     -1.0  0.0800  0.72  0.21  0.50 309.0  15.0 285.8  2.0   0  0.00  49. 1002.   2 NAD-SFC NoSubs
 8 12 12 347 13   98.7  0.086  1.052  0.011 422.  61.     -1.0  0.0800  0.72  0.21  0.50 300.0  15.0 286.8  2.0   0  0.00  46. 1002.   2 NAD-SFC NoSubs
 8 12 12 347 14   82.4  0.129  1.048  0.011 498. 111.     -2.3  0.0800  0.72  0.22  1.00 305.0  15.0 287.4  2.0   0  0.00  45. 1001.   2 NAD-SFC NoSubs
 8 12 12 347 15   52.2  0.122  0.925  0.011 541. 102.     -3.1  0.0800  0.72  0.26  1.00 312.0  15.0 287.8  2.0   0  0.00  45. 1000.   2 NAD-SFC NoSubs
 8 12 12 347 16   11.3  0.065  0.560  0.011 550.  41.     -2.2  0.0800  0.72  0.36  0.50 319.0  15.0 287.5  2.0   0  0.00  47.  999.   2 NAD-SFC NoSubs
 8 12 12 347 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.67  0.00   0.0  15.0 286.6  2.0   0  0.00  52.  999.   2 NAD-SFC NoSubs
 8 12 12 347 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 285.2  2.0   0  0.00  59.  999.   2 NAD-SFC NoSubs
 8 12 12 347 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 284.1  2.0   0  0.00  64.  999.   2 NAD-SFC NoSubs
 8 12 12 347 20   -1.0  0.067 -9.000 -9.000 -999.  42.     26.8  0.0310  0.72  1.00  0.50 110.0  15.0 283.1  2.0   0  0.00  70.  999.   2 NAD-SFC NoSubs
 8 12 12 347 21   -1.0  0.067 -9.000 -9.000 -999.  42.     26.9  0.0310  0.72  1.00  0.50  99.0  15.0 282.2  2.0   0  0.00  75.  999.   2 NAD-SFC NoSubs
 8 12 12 347 22   -2.3  0.076 -9.000 -9.000 -999.  50.     17.2  0.0280  0.72  1.00  1.00 125.0  15.0 281.5  2.0   0  0.00  78.  999.   2 NAD-SFC NoSubs
 8 12 12 347 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 280.8  2.0   0  0.00  80.  998.   2 NAD-SFC NoSubs
 8 12 12 347 24   -1.3  0.075 -9.000 -9.000 -999.  49.     29.8  0.0950  0.72  1.00  0.50 335.0  15.0 280.4  2.0   0  0.00  82.  998.   2 NAD-SFC NoSubs
 8 12 13 348  1   -5.2  0.105 -9.000 -9.000 -999.  82.     19.9  0.0800  0.72  1.00  1.50 309.0  15.0 280.1  2.0   0  0.00  82.  999.   2 NAD-SFC NoSubs
 8 12 13 348  2  -22.3  0.220 -9.000 -9.000 -999. 248.     42.7  0.0800  0.72  1.00  3.10 309.0  15.0 279.9  2.0   0  0.00  83.  999.   3 NAD-SFC NoSubs
 8 12 13 348  3  -27.7  0.258 -9.000 -9.000 -999. 315.     55.4  0.0800  0.72  1.00  3.60 308.0  15.0 279.8  2.0   0  0.00  86.  999.   3 NAD-SFC NoSubs
 8 12 13 348  4  -22.4  0.220 -9.000 -9.000 -999. 249.     42.6  0.0800  0.72  1.00  3.10 317.0  15.0 279.6  2.0   0  0.00  89. 1000.   3 NAD-SFC NoSubs
 8 12 13 348  5  -10.0  0.145 -9.000 -9.000 -999. 134.     27.1  0.0800  0.72  1.00  2.10 324.0  15.0 279.2  2.0   0  0.00  92. 1000.   3 NAD-SFC NoSubs
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 8 12 13 348  6   -1.2  0.073 -9.000 -9.000 -999.   49.     29.2  0.0960  0.72  1.00   0.50   18.0  15.0 279.1  2.0   0  0.00   95. 1001.    4 NAD-SFC NoSubs
 8 12 13 348  7   -0.5  0.050 -9.000 -9.000 -999.   27.     21.2  0.0280  0.72  1.00   0.50  125.0  15.0 279.1  2.0   0  0.25   99. 1001.   10 NAD-SFC NoSubs
 8 12 13 348  8   -0.5  0.047 -9.000 -9.000 -999.   25.     20.1  0.0240  0.72  0.56   0.50  162.0  15.0 279.1  2.0   0  1.02  100. 1001.   10 NAD-SFC NoSubs
 8 12 13 348  9    0.8  0.071  0.066  0.007   13.   46.    -40.6  0.0280  0.72  0.32   1.00  138.0  15.0 279.2  2.0   0  1.27  100. 1001.   10 NAD-SFC NoSubs
 8 12 13 348 10   10.6  0.054  0.257  0.007   57.   30.     -1.3  0.0280  0.72  0.25   0.50  134.0  15.0 279.8  2.0   0  0.76  100. 1001.   10 NAD-SFC NoSubs
 8 12 13 348 11   17.7  0.302  0.359  0.005   93.  399.   -139.4  0.0950  0.72  0.22   3.60  334.0  15.0 281.6  2.0   0  0.51   91. 1001.   10 NAD-SFC NoSubs
 8 12 13 348 12   67.5  0.434  0.860  0.005  336.  685.   -107.9  0.0950  0.72  0.21   5.10  337.0  15.0 283.2  2.0   0  0.00   75. 1001.    8 NAD-SFC NoSubs
 8 12 13 348 13   80.4  0.437  1.041  0.005  501.  694.    -92.9  0.0950  0.72  0.21   5.10  345.0  15.0 283.9  2.0   0  0.00   68. 1001.    7 NAD-SFC NoSubs
 8 12 13 348 14   67.7  0.434  1.044  0.005  599.  686.   -107.6  0.0950  0.72  0.22   5.10  345.0  15.0 284.0  2.0   0  0.00   63. 1001.    7 NAD-SFC NoSubs
 8 12 13 348 15   44.2  0.471  0.933  0.006  656.  774.   -210.5  0.0950  0.72  0.26   5.70  344.0  15.0 283.9  2.0   0  0.00   61. 1001.    7 NAD-SFC NoSubs
 8 12 13 348 16   13.7  0.299  0.640  0.005  683.  417.   -174.6  0.0950  0.72  0.36   3.60  345.0  15.0 283.5  2.0   0  0.00   67. 1000.    6 NAD-SFC NoSubs
 8 12 13 348 17  -18.4  0.231 -9.000 -9.000 -999.  268.     59.4  0.0950  0.72  0.67   3.10  341.0  15.0 282.6  2.0   0  0.00   72. 1001.    7 NAD-SFC NoSubs
 8 12 13 348 18  -14.7  0.191 -9.000 -9.000 -999.  201.     42.2  0.0950  0.72  1.00   2.60  335.0  15.0 282.0  2.0   0  0.00   76. 1001.    7 NAD-SFC NoSubs
 8 12 13 348 19   -5.0  0.107 -9.000 -9.000 -999.   87.     22.1  0.0950  0.72  1.00   1.50  359.0  15.0 281.6  2.0   0  0.00   78. 1002.    6 NAD-SFC NoSubs
 8 12 13 348 20   -1.0  0.067 -9.000 -9.000 -999.   42.     27.0  0.0650  0.72  1.00   0.50   39.0  15.0 281.2  2.0   0  0.00   80. 1002.    6 NAD-SFC NoSubs
 8 12 13 348 21   -1.0  0.067 -9.000 -9.000 -999.   42.     27.2  0.0960  0.72  1.00   0.50   29.0  15.0 281.0  2.0   0  0.00   82. 1003.    7 NAD-SFC NoSubs
 8 12 13 348 22   -2.6  0.082 -9.000 -9.000 -999.   57.     19.5  0.0960  0.72  1.00   1.00   19.0  15.0 280.8  2.0   0  0.00   84. 1003.    6 NAD-SFC NoSubs
 8 12 13 348 23   -4.3  0.099 -9.000 -9.000 -999.   75.     20.6  0.0650  0.72  1.00   1.50   33.0  15.0 280.2  2.0   0  0.00   84. 1004.    7 NAD-SFC NoSubs
 8 12 13 348 24  -16.3  0.288 -9.000 -9.000 -999.  371.    131.3  0.0650  0.72  1.00   4.10   50.0  15.0 279.1  2.0   0  0.00   85. 1004.   10 NAD-SFC NoSubs
 8 12 14 349  1  -25.4  0.329 -9.000 -9.000 -999.  452.    125.4  0.0400  0.72  1.00   5.10   65.0  15.0 278.6  2.0   0  0.00   84. 1005.    8 NAD-SFC NoSubs
 8 12 14 349  2  -11.2  0.197 -9.000 -9.000 -999.  220.     61.2  0.0400  0.72  1.00   3.10   69.0  15.0 278.5  2.0   0  0.51   86. 1006.   10 NAD-SFC NoSubs
 8 12 14 349  3   -0.8  0.060 -9.000 -9.000 -999.   61.     24.3  0.0280  0.72  1.00   0.50  129.0  15.0 278.6  2.0   0  0.51   87. 1006.    7 NAD-SFC NoSubs
 8 12 14 349  4   -3.5  0.085 -9.000 -9.000 -999.   59.     15.4  0.0200  0.72  1.00   1.50  240.0  15.0 278.6  2.0   0  0.00   88. 1007.    5 NAD-SFC NoSubs
 8 12 14 349  5   -3.7  0.085 -9.000 -9.000 -999.   60.     15.3  0.0200  0.72  1.00   1.50  240.0  15.0 278.2  2.0   0  0.00   91. 1007.    4 NAD-SFC NoSubs
 8 12 14 349  6   -2.1  0.073 -9.000 -9.000 -999.   47.     16.6  0.0220  0.72  1.00   1.00  225.0  15.0 277.9  2.0   0  0.00   94. 1008.    4 NAD-SFC NoSubs
 8 12 14 349  7   -1.0  0.066 -9.000 -9.000 -999.   40.     26.2  0.0240  0.72  1.00   0.50  176.0  15.0 277.4  2.0   0  0.00   96. 1008.    3 NAD-SFC NoSubs
 8 12 14 349  8   -0.8  0.060 -9.000 -9.000 -999.   35.     24.4  0.0280  0.72  0.56   0.50  125.0  15.0 277.1  2.0   0  0.00   98. 1008.    3 NAD-SFC NoSubs
 8 12 14 349  9   19.5  0.123  0.450  0.005  169.  103.     -8.6  0.0280  0.72  0.33   1.50  143.0  15.0 278.1  2.0   0  0.00   88. 1009.    2 NAD-SFC NoSubs
 8 12 14 349 10   58.5  0.136  0.856  0.005  386.  121.     -3.9  0.0280  0.72  0.25   1.50  147.0  15.0 279.9  2.0   0  0.00   71. 1009.    2 NAD-SFC NoSubs
 8 12 14 349 11   85.6  0.141  1.210  0.005  745.  127.     -3.0  0.0280  0.72  0.22   1.50  137.0  15.0 280.8  2.0   0  0.00   60. 1009.    2 NAD-SFC NoSubs
 8 12 14 349 12   98.7  0.143  1.409  0.005 1019.  130.     -2.7  0.0280  0.72  0.21   1.50  138.0  15.0 281.5  2.0   0  0.00   52. 1008.    2 NAD-SFC NoSubs
 8 12 14 349 13   97.1  0.143  1.452  0.005 1133.  130.     -2.7  0.0280  0.72  0.21   1.50  141.0  15.0 282.2  2.0   0  0.00   47. 1007.    2 NAD-SFC NoSubs
 8 12 14 349 14   81.0  0.178  1.401  0.005 1219.  181.     -6.3  0.0280  0.72  0.22   2.10  136.0  15.0 282.6  2.0   0  0.00   44. 1006.    2 NAD-SFC NoSubs
 8 12 14 349 15   50.9  0.171  1.218  0.005 1271.  170.     -8.9  0.0280  0.72  0.26   2.10  126.0  15.0 282.8  2.0   0  0.00   42. 1005.    2 NAD-SFC NoSubs
 8 12 14 349 16   12.0  0.156  0.755  0.005 1283.  148.    -28.5  0.0310  0.72  0.36   2.10  118.0  15.0 282.8  2.0   0  0.00   46. 1004.    3 NAD-SFC NoSubs
 8 12 14 349 17   -3.9  0.090 -9.000 -9.000 -999.   66.     16.6  0.0310  0.72  0.66   1.50  100.0  15.0 282.5  2.0   0  0.00   47. 1004.    3 NAD-SFC NoSubs
 8 12 14 349 18   -4.0  0.090 -9.000 -9.000 -999.   65.     16.6  0.0310  0.72  1.00   1.50  106.0  15.0 282.2  2.0   0  0.00   47. 1004.    4 NAD-SFC NoSubs
 8 12 14 349 19   -2.1  0.073 -9.000 -9.000 -999.   47.     16.8  0.0280  0.72  1.00   1.00  123.0  15.0 282.1  2.0   0  0.00   48. 1004.    5 NAD-SFC NoSubs
 8 12 14 349 20   -0.8  0.060 -9.000 -9.000 -999.   35.     24.5  0.0310  0.72  1.00   0.50  118.0  15.0 281.9  2.0   0  0.00   49. 1005.    7 NAD-SFC NoSubs
 8 12 14 349 21   -0.5  0.050 -9.000 -9.000 -999.   26.     20.8  0.0240  0.72  1.00   0.50  165.0  15.0 281.2  2.0   0  0.00   54. 1005.   10 NAD-SFC NoSubs
 8 12 14 349 22   -1.3  0.062 -9.000 -9.000 -999.   37.     15.9  0.0280  0.72  1.00   1.00  124.0  15.0 280.6  2.0   0  0.25   61. 1005.   10 NAD-SFC NoSubs
 8 12 14 349 23   -5.7  0.124 -9.000 -9.000 -999.  105.     30.5  0.0310  0.72  1.00   2.10  110.0  15.0 280.2  2.0   0  0.51   68. 1005.   10 NAD-SFC NoSubs
 8 12 14 349 24  -10.6  0.188 -9.000 -9.000 -999.  196.     56.4  0.0310  0.72  1.00   3.10  119.0  15.0 280.2  2.0   0  0.51   73. 1004.   10 NAD-SFC NoSubs
 8 12 15 350  1  -15.8  0.280 -9.000 -9.000 -999.  355.    124.1  0.0280  0.72  1.00   4.60  129.0  15.0 280.1  2.0   0  0.51   78. 1004.   10 NAD-SFC NoSubs
 8 12 15 350  2  -17.6  0.311 -9.000 -9.000 -999.  417.    153.9  0.0280  0.72  1.00   5.10  138.0  15.0 280.1  2.0   0  0.76   83. 1004.   10 NAD-SFC NoSubs
 8 12 15 350  3  -19.7  0.350 -9.000 -9.000 -999.  496.    194.1  0.0280  0.72  1.00   5.70  129.0  15.0 280.2  2.0   0  1.02   86. 1003.   10 NAD-SFC NoSubs
 8 12 15 350  4  -21.5  0.382 -9.000 -9.000 -999.  566.    231.3  0.0280  0.72  1.00   6.20  133.0  15.0 280.2  2.0   0  1.27   88. 1003.   10 NAD-SFC NoSubs
 8 12 15 350  5  -21.5  0.382 -9.000 -9.000 -999.  566.    231.5  0.0280  0.72  1.00   6.20  135.0  15.0 280.4  2.0   0  1.52   89. 1003.   10 NAD-SFC NoSubs
 8 12 15 350  6  -17.5  0.311 -9.000 -9.000 -999.  420.    154.1  0.0280  0.72  1.00   5.10  134.0  15.0 280.6  2.0   0  1.02   90. 1003.   10 NAD-SFC NoSubs
 8 12 15 350  7  -17.5  0.311 -9.000 -9.000 -999.  417.    154.2  0.0280  0.72  1.00   5.10  129.0  15.0 280.8  2.0   0  0.76   91. 1003.   10 NAD-SFC NoSubs
 8 12 15 350  8  -18.2  0.311 -9.000 -9.000 -999.  416.    148.0  0.0280  0.72  0.57   5.10  128.0  15.0 281.1  2.0   0  0.51   92. 1002.    8 NAD-SFC NoSubs
 8 12 15 350  9   22.4  0.309  0.493  0.005  191.  413.   -118.0  0.0280  0.72  0.33   4.60  133.0  15.0 281.8  2.0   0  0.76   90. 1002.    5 NAD-SFC NoSubs
 8 12 15 350 10   58.9  0.293  0.787  0.006  296.  381.    -38.2  0.0280  0.72  0.25   4.10  134.0  15.0 283.1  2.0   0  1.02   83. 1002.    5 NAD-SFC NoSubs
 8 12 15 350 11   84.7  0.067  0.986  0.005  405.  138.     -1.0  0.0220  0.72  0.22   0.50  217.0  15.0 285.4  2.0   0  1.02   69. 1002.    5 NAD-SFC NoSubs
 8 12 15 350 12   91.5  0.320  1.121  0.005  550.  435.    -32.1  0.0420  0.72  0.21   4.10  285.0  15.0 286.8  2.0   0  1.02   60. 1002.    6 NAD-SFC NoSubs
 8 12 15 350 13   98.6  0.407  1.229  0.005  673.  623.    -61.1  0.0200  0.72  0.21   6.20  266.0  15.0 287.5  2.0   0  1.02   52. 1001.    4 NAD-SFC NoSubs
 8 12 15 350 14   83.4  0.404  1.212  0.005  763.  616.    -70.6  0.0200  0.72  0.22   6.20  256.0  15.0 288.2  2.0   0  0.25   43. 1001.    3 NAD-SFC NoSubs
 8 12 15 350 15   53.6  0.278  1.070  0.005  815.  362.    -35.7  0.0200  0.72  0.26   4.10  263.0  15.0 288.0  2.0   0  0.00   49. 1001.    3 NAD-SFC NoSubs
 8 12 15 350 16   13.0  0.292  0.671  0.005  825.  378.   -170.0  0.0420  0.72  0.36   4.10  283.0  15.0 286.5  2.0   0  0.00   58. 1001.    3 NAD-SFC NoSubs
 8 12 15 350 17  -33.2  0.330 -9.000 -9.000 -999.  454.     96.4  0.0420  0.72  0.66   5.10  272.0  15.0 285.0  2.0   0  0.00   60. 1002.    3 NAD-SFC NoSubs
 8 12 15 350 18  -31.0  0.291 -9.000 -9.000 -999.  378.     71.3  0.0200  0.72  1.00   5.10  259.0  15.0 283.4  2.0   0  0.00   65. 1003.    3 NAD-SFC NoSubs
 8 12 15 350 19  -27.9  0.261 -9.000 -9.000 -999.  321.     57.2  0.0200  0.72  1.00   4.60  253.0  15.0 282.1  2.0   0  0.00   71. 1003.    3 NAD-SFC NoSubs
 8 12 15 350 20  -25.2  0.235 -9.000 -9.000 -999.  274.     46.1  0.0220  0.72  1.00   4.10  236.0  15.0 281.2  2.0   0  0.00   76. 1004.    3 NAD-SFC NoSubs
 8 12 15 350 21  -20.9  0.202 -9.000 -9.000 -999.  218.     35.1  0.0200  0.72  1.00   3.60  242.0  15.0 280.9  2.0   0  0.00   78. 1004.    3 NAD-SFC NoSubs
 8 12 15 350 22  -10.9  0.144 -9.000 -9.000 -999.  132.     24.6  0.0220  0.72  1.00   2.60  228.0  15.0 280.4  2.0   0  0.00   81. 1005.    3 NAD-SFC NoSubs
 8 12 15 350 23   -2.1  0.074 -9.000 -9.000 -999.   50.     16.7  0.0220  0.72  1.00   1.00  201.0  15.0 279.8  2.0   0  0.00   84. 1005.    3 NAD-SFC NoSubs
 8 12 15 350 24   -2.3  0.078 -9.000 -9.000 -999.   52.     17.8  0.0420  0.72  1.00   1.00  295.0  15.0 279.8  2.0   0  0.25   85. 1005.    4 NAD-SFC NoSubs
 8 12 16 351  1   -2.8  0.085 -9.000 -9.000 -999.   60.     19.8  0.0950  0.72  1.00   1.00  340.0  15.0 279.5  2.0   0  0.25   86. 1005.    4 NAD-SFC NoSubs
 8 12 16 351  2   -0.9  0.064 -9.000 -9.000 -999.   39.     25.6  0.0220  0.72  1.00   0.50  235.0  15.0 279.2  2.0   0  0.00   88. 1005.    4 NAD-SFC NoSubs
 8 12 16 351  3   -2.1  0.073 -9.000 -9.000 -999.   47.     16.6  0.0220  0.72  1.00   1.00  223.0  15.0 279.1  2.0   0  0.00   90. 1006.    4 NAD-SFC NoSubs
 8 12 16 351  4   -3.7  0.086 -9.000 -9.000 -999.   61.     15.6  0.0220  0.72  1.00   1.50  226.0  15.0 278.8  2.0   0  0.00   92. 1006.    4 NAD-SFC NoSubs
 8 12 16 351  5   -6.9  0.115 -9.000 -9.000 -999.   94.     19.7  0.0220  0.72  1.00   2.10  238.0  15.0 278.6  2.0   0  0.00   93. 1006.    4 NAD-SFC NoSubs
 8 12 16 351  6  -10.5  0.142 -9.000 -9.000 -999.  129.     24.5  0.0200  0.72  1.00   2.60  246.0  15.0 278.2  2.0   0  0.00   95. 1006.    4 NAD-SFC NoSubs
 8 12 16 351  7  -10.5  0.142 -9.000 -9.000 -999.  129.     24.4  0.0200  0.72  1.00   2.60  257.0  15.0 277.9  2.0   0  0.00   95. 1007.    4 NAD-SFC NoSubs
 8 12 16 351  8   -9.5  0.144 -9.000 -9.000 -999.  130.     28.0  0.0200  0.72  0.57   2.60  259.0  15.0 277.8  2.0   0  0.00   94. 1007.    4 NAD-SFC NoSubs
 8 12 16 351  9   21.1  0.170  0.438  0.005  143.  169.    -21.0  0.0420  0.72  0.33   2.10  277.0  15.0 278.4  2.0   0  0.00   88. 1008.    4 NAD-SFC NoSubs
 8 12 16 351 10   59.0  0.145  0.805  0.005  317.  133.     -4.7  0.0420  0.72  0.25   1.50  284.0  15.0 279.6  2.0   0  0.00   81. 1008.    4 NAD-SFC NoSubs
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 8 12 16 351 11   85.6  0.075  1.065  0.005  507.   51.     -1.0  0.0420  0.72  0.22  0.50  290.0  15.0  281.0  2.0   0  0.00  74.  1008.   4 NAD-SFC NoSubs
 8 12 16 351 12   98.5  0.076  1.225  0.005  671.   50.     -1.0  0.0420  0.72  0.21  0.50  286.0  15.0  282.0  2.0   0  0.00  71.  1008.   4 NAD-SFC NoSubs
 8 12 16 351 13   97.8  0.076  1.306  0.005  818.   50.     -1.0  0.0420  0.72  0.21  0.50  293.0  15.0  282.6  2.0   0  0.00  68.  1007.   3 NAD-SFC NoSubs
 8 12 16 351 14   82.0  0.115  1.282  0.005  924.   93.     -1.7  0.0420  0.72  0.22  1.00  298.0  15.0  283.0  2.0   0  0.00  65.  1007.   3 NAD-SFC NoSubs
 8 12 16 351 15   52.5  0.160  1.131  0.005  989.  154.     -7.0  0.0800  0.72  0.26  1.50  313.0  15.0  283.2  2.0   0  0.00  64.  1006.   3 NAD-SFC NoSubs
 8 12 16 351 16   12.4  0.182  0.703  0.005 1005.  187.    -44.1  0.0800  0.72  0.36  2.10  309.0  15.0  283.1  2.0   0  0.00  66.  1006.   3 NAD-SFC NoSubs
 8 12 16 351 17   -9.7  0.145 -9.000 -9.000 -999.  133.     28.1  0.0800  0.72  0.66  2.10  304.0  15.0  282.6  2.0   0  0.00  68.  1006.   3 NAD-SFC NoSubs
 8 12 16 351 18   -5.1  0.104 -9.000 -9.000 -999.   81.     20.3  0.0800  0.72  1.00  1.50  304.0  15.0  282.0  2.0   0  0.00  71.  1007.   4 NAD-SFC NoSubs
 8 12 16 351 19   -4.9  0.104 -9.000 -9.000 -999.   81.     20.6  0.0800  0.72  1.00  1.50  303.0  15.0  281.6  2.0   0  0.00  73.  1007.   5 NAD-SFC NoSubs
 8 12 16 351 20   -0.7  0.056 -9.000 -9.000 -999.   32.     22.7  0.0200  0.72  1.00  0.50  268.0  15.0  281.1  2.0   0  0.25  77.  1008.   8 NAD-SFC NoSubs
 8 12 16 351 21   -0.8  0.059 -9.000 -9.000 -999.   34.     23.9  0.0240  0.72  1.00  0.50  159.0  15.0  280.6  2.0   0  0.51  82.  1008.   7 NAD-SFC NoSubs
 8 12 16 351 22   -0.9  0.064 -9.000 -9.000 -999.   39.     26.0  0.0420  0.72  1.00  0.50  290.0  15.0  280.4  2.0   0  0.25  86.  1009.   6 NAD-SFC NoSubs
 8 12 16 351 23   -6.8  0.113 -9.000 -9.000 -999.   92.     19.4  0.0200  0.72  1.00  2.10  269.0  15.0  280.4  2.0   0  0.00  82.  1008.   4 NAD-SFC NoSubs
 8 12 16 351 24  -10.7  0.142 -9.000 -9.000 -999.  128.     24.0  0.0200  0.72  1.00  2.60  267.0  15.0  280.1  2.0   0  0.00  78.  1008.   3 NAD-SFC NoSubs
 8 12 17 352  1  -12.9  0.161 -9.000 -9.000 -999.  155.     29.0  0.0420  0.72  1.00  2.60  270.0  15.0  279.6  2.0   0  0.00  76.  1007.   3 NAD-SFC NoSubs
 8 12 17 352  2   -2.8  0.085 -9.000 -9.000 -999.   61.     19.5  0.0800  0.72  1.00  1.00  320.0  15.0  279.2  2.0   0  0.00  70.  1007.   3 NAD-SFC NoSubs
 8 12 17 352  3  -33.4  0.307 -9.000 -9.000 -999.  408.     77.5  0.0950  0.72  1.00  4.10  346.0  15.0  277.8  2.0   0  0.00  74.  1007.   3 NAD-SFC NoSubs
 8 12 17 352  4  -33.6  0.307 -9.000 -9.000 -999.  408.     77.1  0.0950  0.72  1.00  4.10  337.0  15.0  276.2  2.0   0  0.00  76.  1007.   3 NAD-SFC NoSubs
 8 12 17 352  5  -28.4  0.258 -9.000 -9.000 -999.  316.     54.4  0.0800  0.72  1.00  3.60  320.0  15.0  275.1  2.0   0  0.00  73.  1008.   3 NAD-SFC NoSubs
 8 12 17 352  6  -28.5  0.258 -9.000 -9.000 -999.  315.     54.3  0.0800  0.72  1.00  3.60  307.0  15.0  274.5  2.0   0  0.00  70.  1008.   3 NAD-SFC NoSubs
 8 12 17 352  7  -18.8  0.195 -9.000 -9.000 -999.  207.     35.2  0.0420  0.72  1.00  3.10  295.0  15.0  274.1  2.0   0  0.00  69.  1008.   3 NAD-SFC NoSubs
 8 12 17 352  8  -17.2  0.196 -9.000 -9.000 -999.  208.     39.3  0.0420  0.72  0.57  3.10  281.0  15.0  274.0  2.0   0  0.00  68.  1008.   3 NAD-SFC NoSubs
 8 12 17 352  9   19.2  0.330  0.365  0.005   91.  454.   -167.5  0.0800  0.72  0.33  4.10  306.0  15.0  275.6  2.0   0  0.00  56.  1008.   3 NAD-SFC NoSubs
 8 12 17 352 10   57.9  0.276  0.665  0.005  182.  350.    -32.7  0.0800  0.72  0.25  3.10  304.0  15.0  277.0  2.0   0  0.00  50.  1007.   3 NAD-SFC NoSubs
 8 12 17 352 11   85.2  0.256  0.933  0.005  342.  311.    -17.6  0.0420  0.72  0.22  3.10  299.0  15.0  278.8  2.0   0  0.00  44.  1006.   3 NAD-SFC NoSubs
 8 12 17 352 12   98.5  0.358  1.128  0.005  522.  514.    -41.7  0.0800  0.72  0.21  4.10  301.0  15.0  279.9  2.0   0  0.00  42.  1005.   3 NAD-SFC NoSubs
 8 12 17 352 13   97.3  0.393  1.220  0.005  668.  591.    -55.8  0.0800  0.72  0.21  4.60  315.0  15.0  280.8  2.0   0  0.00  41.  1004.   3 NAD-SFC NoSubs
 8 12 17 352 14   81.6  0.424  1.205  0.005  767.  663.    -83.9  0.0800  0.72  0.22  5.10  324.0  15.0  281.1  2.0   0  0.00  41.  1004.   3 NAD-SFC NoSubs
 8 12 17 352 15   52.2  0.380  1.064  0.005  825.  564.    -94.2  0.0800  0.72  0.26  4.60  320.0  15.0  281.4  2.0   0  0.00  42.  1003.   3 NAD-SFC NoSubs
 8 12 17 352 16   12.2  0.218  0.658  0.005  838.  264.    -75.8  0.0800  0.72  0.36  2.60  311.0  15.0  281.1  2.0   0  0.00  49.  1003.   3 NAD-SFC NoSubs
 8 12 17 352 17  -15.2  0.183 -9.000 -9.000 -999.  188.     35.9  0.0800  0.72  0.66  2.60  309.0  15.0  280.8  2.0   0  0.00  50.  1003.   3 NAD-SFC NoSubs
 8 12 17 352 18   -8.3  0.128 -9.000 -9.000 -999.  111.     22.7  0.0420  0.72  1.00  2.10  293.0  15.0  280.4  2.0   0  0.00  51.  1003.   3 NAD-SFC NoSubs
 8 12 17 352 19   -6.9  0.113 -9.000 -9.000 -999.   92.     19.0  0.0200  0.72  1.00  2.10  259.0  15.0  280.0  2.0   0  0.00  53.  1004.   3 NAD-SFC NoSubs
 8 12 17 352 20   -7.0  0.113 -9.000 -9.000 -999.   92.     18.7  0.0200  0.72  1.00  2.10  254.0  15.0  279.5  2.0   0  0.00  55.  1004.   2 NAD-SFC NoSubs
 8 12 17 352 21   -3.9  0.087 -9.000 -9.000 -999.   62.     15.4  0.0220  0.72  1.00  1.50  236.0  15.0  278.8  2.0   0  0.00  57.  1004.   2 NAD-SFC NoSubs
 8 12 17 352 22   -3.9  0.087 -9.000 -9.000 -999.   62.     15.4  0.0220  0.72  1.00  1.50  238.0  15.0  278.0  2.0   0  0.00  58.  1005.   2 NAD-SFC NoSubs
 8 12 17 352 23   -3.8  0.086 -9.000 -9.000 -999.   61.     15.2  0.0200  0.72  1.00  1.50  264.0  15.0  277.2  2.0   0  0.00  59.  1005.   2 NAD-SFC NoSubs
 8 12 17 352 24   -8.4  0.128 -9.000 -9.000 -999.  110.     22.3  0.0420  0.72  1.00  2.10  277.0  15.0  276.4  2.0   0  0.00  57.  1006.   2 NAD-SFC NoSubs
 8 12 18 353  1  -19.0  0.194 -9.000 -9.000 -999.  206.     34.8  0.0420  0.72  1.00  3.10  276.0  15.0  275.8  2.0   0  0.00  55.  1007.   2 NAD-SFC NoSubs
 8 12 18 353  2  -19.0  0.194 -9.000 -9.000 -999.  206.     34.7  0.0420  0.72  1.00  3.10  280.0  15.0  274.8  2.0   0  0.00  57.  1007.   2 NAD-SFC NoSubs
 8 12 18 353  3  -19.1  0.194 -9.000 -9.000 -999.  206.     34.6  0.0420  0.72  1.00  3.10  280.0  15.0  274.1  2.0   0  0.00  60.  1008.   2 NAD-SFC NoSubs
 8 12 18 353  4  -19.1  0.194 -9.000 -9.000 -999.  206.     34.6  0.0420  0.72  1.00  3.10  277.0  15.0  273.5  2.0   0  0.00  62.  1009.   2 NAD-SFC NoSubs
 8 12 18 353  5  -13.3  0.161 -9.000 -9.000 -999.  155.     28.1  0.0420  0.72  1.00  2.60  280.0  15.0  273.0  2.0   0  0.00  64.  1010.   2 NAD-SFC NoSubs
 8 12 18 353  6  -13.3  0.161 -9.000 -9.000 -999.  154.     28.1  0.0420  0.72  1.00  2.60  281.0  15.0  272.6  2.0   0  0.00  66.  1011.   2 NAD-SFC NoSubs
 8 12 18 353  7   -8.6  0.128 -9.000 -9.000 -999.  110.     22.1  0.0420  0.72  1.00  2.10  270.0  15.0  272.2  2.0   0  0.00  67.  1012.   2 NAD-SFC NoSubs
 8 12 18 353  8   -7.9  0.128 -9.000 -9.000 -999.  110.     24.2  0.0420  0.72  0.58  2.10  275.0  15.0  272.0  2.0   0  0.00  67.  1013.   2 NAD-SFC NoSubs
 8 12 18 353  9   17.0  0.129  0.372  0.007  109.  112.    -11.5  0.0420  0.72  0.33  1.50  298.0  15.0  273.0  2.0   0  0.00  62.  1013.   2 NAD-SFC NoSubs
 8 12 18 353 10   56.0 -9.000 -9.000 -9.000  282. -999. -99999.0  0.0471  0.72  0.25  0.00    0.0  15.0  274.2  2.0   0  0.00  58.  1014.   2 NAD-SFC NoSubs
 8 12 18 353 11   83.6 -9.000 -9.000 -9.000  407. -999. -99999.0  0.0471  0.72  0.22  0.00    0.0  15.0  275.9  2.0   0  0.00  53.  1014.   2 NAD-SFC NoSubs
 8 12 18 353 12   97.0  0.067  1.126  0.008  531.   42.     -1.0  0.0200  0.72  0.21  0.50  260.0  15.0  277.0  2.0   0  0.00  50.  1013.   2 NAD-SFC NoSubs
 8 12 18 353 13   95.9  0.076  1.187  0.008  631.   50.     -1.0  0.0420  0.72  0.21  0.50  272.0  15.0  278.1  2.0   0  0.00  48.  1013.   2 NAD-SFC NoSubs
 8 12 18 353 14   80.3 -9.000 -9.000 -9.000  696. -999. -99999.0  0.0471  0.72  0.22  0.00    0.0  15.0  279.0  2.0   0  0.00  46.  1013.   2 NAD-SFC NoSubs
 8 12 18 353 15   50.7 -9.000 -9.000 -9.000  731. -999. -99999.0  0.0471  0.72  0.26  0.00    0.0  15.0  279.4  2.0   0  0.00  45.  1013.   2 NAD-SFC NoSubs
 8 12 18 353 16   10.4  0.067  0.597  0.009  738.   41.     -2.6  0.0960  0.72  0.36  0.50   29.0  15.0  279.4  2.0   0  0.00  47.  1013.   2 NAD-SFC NoSubs
 8 12 18 353 17   -1.0  0.068 -9.000 -9.000 -999.   42.     27.1  0.0400  0.72  0.65  0.50   61.0  15.0  278.8  2.0   0  0.00  51.  1013.   2 NAD-SFC NoSubs
 8 12 18 353 18   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0400  0.72  1.00  0.50   89.0  15.0  277.9  2.0   0  0.00  57.  1014.   2 NAD-SFC NoSubs
 8 12 18 353 19   -1.0  0.067 -9.000 -9.000 -999.   42.     26.8  0.0280  0.72  1.00  0.50  146.0  15.0  276.9  2.0   0  0.00  62.  1015.   2 NAD-SFC NoSubs
 8 12 18 353 20   -2.3  0.075 -9.000 -9.000 -999.   50.     17.0  0.0240  0.72  1.00  1.00  175.0  15.0  276.0  2.0   0  0.00  67.  1015.   2 NAD-SFC NoSubs
 8 12 18 353 21   -2.3  0.075 -9.000 -9.000 -999.   50.     17.0  0.0240  0.72  1.00  1.00  157.0  15.0  275.2  2.0   0  0.00  71.  1015.   2 NAD-SFC NoSubs
 8 12 18 353 22   -4.2  0.090 -9.000 -9.000 -999.   65.     16.0  0.0280  0.72  1.00  1.50  140.0  15.0  274.8  2.0   0  0.00  73.  1016.   2 NAD-SFC NoSubs
 8 12 18 353 23   -4.1  0.090 -9.000 -9.000 -999.   65.     16.1  0.0280  0.72  1.00  1.50  132.0  15.0  274.2  2.0   0  0.00  74.  1016.   3 NAD-SFC NoSubs
 8 12 18 353 24   -4.1  0.090 -9.000 -9.000 -999.   65.     16.1  0.0280  0.72  1.00  1.50  120.0  15.0  273.8  2.0   0  0.00  74.  1016.   3 NAD-SFC NoSubs
 8 12 19 354  1   -4.0  0.089 -9.000 -9.000 -999.   64.     16.2  0.0280  0.72  1.00  1.50  124.0  15.0  273.4  2.0   0  0.00  72.  1016.   4 NAD-SFC NoSubs
 8 12 19 354  2   -7.3  0.120 -9.000 -9.000 -999.   99.     21.2  0.0280  0.72  1.00  2.10  122.0  15.0  273.2  2.0   0  0.00  70.  1016.   5 NAD-SFC NoSubs
 8 12 19 354  3   -7.3  0.120 -9.000 -9.000 -999.   99.     21.2  0.0280  0.72  1.00  2.10  131.0  15.0  273.1  2.0   0  0.00  66.  1016.   5 NAD-SFC NoSubs
 8 12 19 354  4  -11.4  0.150 -9.000 -9.000 -999.  140.     27.1  0.0280  0.72  1.00  2.60  126.0  15.0  273.0  2.0   0  0.00  63.  1016.   5 NAD-SFC NoSubs
 8 12 19 354  5  -11.4  0.150 -9.000 -9.000 -999.  140.     27.1  0.0280  0.72  1.00  2.60  127.0  15.0  273.2  2.0   0  0.00  60.  1016.   5 NAD-SFC NoSubs
 8 12 19 354  6  -16.4  0.182 -9.000 -9.000 -999.  186.     33.3  0.0280  0.72  1.00  3.10  131.0  15.0  273.6  2.0   0  0.00  57.  1016.   5 NAD-SFC NoSubs
 8 12 19 354  7  -16.4  0.182 -9.000 -9.000 -999.  186.     33.3  0.0280  0.72  1.00  3.10  126.0  15.0  274.2  2.0   0  0.00  55.  1016.   5 NAD-SFC NoSubs
 8 12 19 354  8  -17.8  0.215 -9.000 -9.000 -999.  239.     50.3  0.0280  0.72  0.58  3.60  131.0  15.0  274.8  2.0   0  0.00  54.  1016.   5 NAD-SFC NoSubs
 8 12 19 354  9   19.8  0.248  0.311  0.006   55.  297.    -70.0  0.0280  0.72  0.33  3.60  136.0  15.0  275.6  2.0   0  0.00  52.  1016.   5 NAD-SFC NoSubs
 8 12 19 354 10   56.3  0.263  0.605  0.006  142.  323.    -29.1  0.0280  0.72  0.25  3.60  138.0  15.0  276.8  2.0   0  0.00  51.  1016.   5 NAD-SFC NoSubs
 8 12 19 354 11   82.1  0.299  0.870  0.005  291.  392.    -29.4  0.0280  0.72  0.22  4.10  136.0  15.0  278.4  2.0   0  0.00  48.  1016.   5 NAD-SFC NoSubs
 8 12 19 354 12   89.2  0.271  1.017  0.005  427.  339.    -20.2  0.0280  0.72  0.21  3.60  143.0  15.0  279.2  2.0   0  0.00  52.  1016.   6 NAD-SFC NoSubs
 8 12 19 354 13   79.1  0.209  1.044  0.005  521.  230.    -10.4  0.0280  0.72  0.21  2.60  149.0  15.0  280.0  2.0   0  0.00  56.  1016.   7 NAD-SFC NoSubs
 8 12 19 354 14   79.3  0.178  1.096  0.005  601.  180.     -6.4  0.0280  0.72  0.22  2.10  142.0  15.0  280.4  2.0   0  0.00  61.  1015.   5 NAD-SFC NoSubs
 8 12 19 354 15   52.8  0.135  0.981  0.005  648.  119.     -4.2  0.0280  0.72  0.26  1.50  138.0  15.0  280.5  2.0   0  0.00  63.  1015.   4 NAD-SFC NoSubs
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 8 12 19 354 16   13.7  0.155  0.630  0.005   661.   147.    -24.7 0.0280 0.72 0.36  2.10 130.0 15.0 280.2 2.0 0 0.00  67. 1015.  4 NAD-SFC NoSubs
 8 12 19 354 17   -3.6  0.088 -9.000 -9.000  -999.   63.     16.7 0.0280 0.72 0.65  1.50 122.0 15.0 280.1 2.0 0 0.00  71. 1015.  5 NAD-SFC NoSubs
 8 12 19 354 18   -2.0  0.072 -9.000 -9.000  -999.   47.     16.8 0.0310 0.72 1.00  1.00 112.0 15.0 279.8 2.0 0 0.00  74. 1015.  6 NAD-SFC NoSubs
 8 12 19 354 19   -0.9  0.064 -9.000 -9.000  -999.   39.     25.9 0.0310 0.72 1.00  0.50  91.0 15.0 279.5 2.0 0 0.00  77. 1016.  5 NAD-SFC NoSubs
 8 12 19 354 20   -2.4  0.077 -9.000 -9.000  -999.   51.     17.7 0.0400 0.72 1.00  1.00  89.0 15.0 279.2 2.0 0 0.00  80. 1016.  4 NAD-SFC NoSubs
 8 12 19 354 21   -2.4  0.077 -9.000 -9.000  -999.   52.     17.7 0.0400 0.72 1.00  1.00  88.0 15.0 278.6 2.0 0 0.00  84. 1017.  4 NAD-SFC NoSubs
 8 12 19 354 22   -2.4  0.077 -9.000 -9.000  -999.   52.     17.7 0.0400 0.72 1.00  1.00  80.0 15.0 277.8 2.0 0 0.00  88. 1017.  4 NAD-SFC NoSubs
 8 12 19 354 23   -2.4  0.077 -9.000 -9.000  -999.   52.     17.8 0.0400 0.72 1.00  1.00  65.0 15.0 276.9 2.0 0 0.00  92. 1017.  4 NAD-SFC NoSubs
 8 12 19 354 24   -3.0  0.087 -9.000 -9.000  -999.   61.     20.0 0.0960 0.72 1.00  1.00  10.0 15.0 276.2 2.0 0 0.00  94. 1017.  3 NAD-SFC NoSubs
 8 12 20 355  1   -5.6  0.108 -9.000 -9.000  -999.   86.     20.7 0.0950 0.72 1.00  1.50 342.0 15.0 275.6 2.0 0 0.00  95. 1017.  3 NAD-SFC NoSubs
 8 12 20 355  2   -2.9  0.086 -9.000 -9.000  -999.   60.     19.6 0.0800 0.72 1.00  1.00 318.0 15.0 275.1 2.0 0 0.00  95. 1017.  2 NAD-SFC NoSubs
 8 12 20 355  3   -1.0  0.066 -9.000 -9.000  -999.   41.     26.3 0.0220 0.72 1.00  0.50 228.0 15.0 274.8 2.0 0 0.00  95. 1017.  2 NAD-SFC NoSubs
 8 12 20 355  4   -2.3  0.075 -9.000 -9.000  -999.   49.     16.9 0.0220 0.72 1.00  1.00 216.0 15.0 274.4 2.0 0 0.00  97. 1017.  2 NAD-SFC NoSubs
 8 12 20 355  5   -4.0  0.088 -9.000 -9.000  -999.   62.     15.4 0.0220 0.72 1.00  1.50 222.0 15.0 274.1 2.0 0 0.00  99. 1016.  2 NAD-SFC NoSubs
 8 12 20 355  6   -4.0  0.088 -9.000 -9.000  -999.   62.     15.4 0.0220 0.72 1.00  1.50 224.0 15.0 274.6 2.0 0 0.00  97. 1017.  2 NAD-SFC NoSubs
 8 12 20 355  7   -2.3  0.075 -9.000 -9.000  -999.   49.     16.9 0.0220 0.72 1.00  1.00 208.0 15.0 275.1 2.0 0 0.00  95. 1017.  2 NAD-SFC NoSubs
 8 12 20 355  8   -0.9  0.063 -9.000 -9.000  -999.   38.     25.4 0.0280 0.72 0.59  0.50 140.0 15.0 275.2 2.0 0 0.00  95. 1017.  2 NAD-SFC NoSubs
 8 12 20 355  9   16.4  0.090  0.310  0.008    66.   65.     -4.1 0.0280 0.72 0.33  1.00 120.0 15.0 275.6 2.0 0 0.00  96. 1017.  2 NAD-SFC NoSubs
 8 12 20 355 10   55.6  0.066  0.675  0.007   201.   40.     -1.0 0.0280 0.72 0.25  0.50 124.0 15.0 276.4 2.0 0 0.00  95. 1017.  2 NAD-SFC NoSubs
 8 12 20 355 11   83.3 -9.000 -9.000 -9.000   379.  -999. -99999.0 0.0471 0.72 0.22  0.00   0.0 15.0 277.5 2.0 0 0.00  92. 1016.  2 NAD-SFC NoSubs
 8 12 20 355 12   97.0 -9.000 -9.000 -9.000   511.  -999. -99999.0 0.0471 0.72 0.21  0.00   0.0 15.0 278.4 2.0 0 0.00  85. 1015.  2 NAD-SFC NoSubs
 8 12 20 355 13   96.0  0.088  1.175  0.009   613.   63.     -1.0 0.0950 0.72 0.21  0.50 333.0 15.0 278.6 2.0 0 0.00  83. 1015.  2 NAD-SFC NoSubs
 8 12 20 355 14   80.5  0.128  1.149  0.009   682.   110.    -2.4 0.0800 0.72 0.22  1.00 305.0 15.0 279.1 2.0 0 0.00  80. 1014.  2 NAD-SFC NoSubs
 8 12 20 355 15   51.1  0.160  1.005  0.010   717.   153.    -7.2 0.0800 0.72 0.26  1.50 311.0 15.0 279.5 2.0 0 0.00  77. 1013.  2 NAD-SFC NoSubs
 8 12 20 355 16   11.0  0.106  0.604  0.010   724.   84.     -9.9 0.0950 0.72 0.36  1.00 342.0 15.0 279.8 2.0 0 0.00  72. 1013.  2 NAD-SFC NoSubs
 8 12 20 355 17   -1.1  0.071 -9.000 -9.000  -999.   45.     28.3 0.0650 0.72 0.65  0.50  49.0 15.0 279.4 2.0 0 0.00  75. 1012.  2 NAD-SFC NoSubs
 8 12 20 355 18   -1.0  0.068 -9.000 -9.000  -999.   42.     27.0 0.0310 0.72 1.00  0.50  94.0 15.0 278.6 2.0 0 0.00  80. 1013.  2 NAD-SFC NoSubs
 8 12 20 355 19   -2.3  0.076 -9.000 -9.000  -999.   51.     17.3 0.0280 0.72 1.00  1.00 144.0 15.0 278.0 2.0 0 0.00  85. 1013.  2 NAD-SFC NoSubs
 8 12 20 355 20   -4.0  0.088 -9.000 -9.000  -999.   63.     15.6 0.0240 0.72 1.00  1.50 150.0 15.0 277.6 2.0 0 0.00  88. 1013.  2 NAD-SFC NoSubs
 8 12 20 355 21   -4.0  0.088 -9.000 -9.000  -999.   63.     15.6 0.0240 0.72 1.00  1.50 151.0 15.0 277.5 2.0 0 0.00  90. 1014.  2 NAD-SFC NoSubs
 8 12 20 355 22   -2.3  0.076 -9.000 -9.000  -999.   51.     17.3 0.0280 0.72 1.00  1.00 136.0 15.0 277.5 2.0 0 0.00  91. 1014.  2 NAD-SFC NoSubs
 8 12 20 355 23   -1.0  0.068 -9.000 -9.000  -999.   42.     27.0 0.0310 0.72 1.00  0.50 107.0 15.0 277.4 2.0 0 0.00  93. 1014.  2 NAD-SFC NoSubs
 8 12 20 355 24   -1.0  0.068 -9.000 -9.000  -999.   42.     27.0 0.0310 0.72 1.00  0.50 104.0 15.0 277.2 2.0 0 0.00  94. 1014.  2 NAD-SFC NoSubs
 8 12 21 356  1   -1.0  0.068 -9.000 -9.000  -999.   42.     27.0 0.0310 0.72 1.00  0.50  99.0 15.0 277.2 2.0 0 0.00  95. 1014.  2 NAD-SFC NoSubs
 8 12 21 356  2   -1.1  0.069 -9.000 -9.000  -999.   44.     27.7 0.0400 0.72 1.00  0.50  83.0 15.0 277.2 2.0 0 0.00  95. 1014.  2 NAD-SFC NoSubs
 8 12 21 356  3 -999.0 -9.000 -9.000 -9.000  -999.  -999. -99999.0 0.0471 0.72 1.00  0.00   0.0 15.0 277.0 2.0 0 0.00  97. 1014.  2 NAD-SFC NoSubs
 8 12 21 356  4 -999.0 -9.000 -9.000 -9.000  -999.  -999. -99999.0 0.0471 0.72 1.00  0.00   0.0 15.0 276.6 2.0 0 0.00  97. 1014.  2 NAD-SFC NoSubs
 8 12 21 356  5 -999.0 -9.000 -9.000 -9.000  -999.  -999. -99999.0 0.0471 0.72 1.00  0.00   0.0 15.0 276.0 2.0 0 0.00  99. 1014.  2 NAD-SFC NoSubs
 8 12 21 356  6 -999.0 -9.000 -9.000 -9.000  -999.  -999. -99999.0 0.0471 0.72 1.00  0.00   0.0 15.0 275.5 2.0 0 0.00 100. 1013.  2 NAD-SFC NoSubs
 8 12 21 356  7   -1.1  0.068 -9.000 -9.000  -999.   43.     27.1 0.0310 0.72 1.00  0.50 115.0 15.0 275.1 2.0 0 0.00 100. 1013.  2 NAD-SFC NoSubs
 8 12 21 356  8   -0.9  0.064 -9.000 -9.000  -999.   39.     25.7 0.0310 0.72 0.59  0.50 100.0 15.0 274.8 2.0 0 0.00 100. 1013.  2 NAD-SFC NoSubs
 8 12 21 356  9   15.9  0.057  0.317  0.011    72.   33.     -1.1 0.0310 0.72 0.34  0.50 102.0 15.0 274.8 2.0 0 0.00 100. 1013.  2 NAD-SFC NoSubs
 8 12 21 356 10   55.2 -9.000 -9.000 -9.000   203.  -999. -99999.0 0.0471 0.72 0.25  0.00   0.0 15.0 275.9 2.0 0 0.00  97. 1012.  2 NAD-SFC NoSubs
 8 12 21 356 11   83.4 -9.000 -9.000 -9.000   353.  -999. -99999.0 0.0471 0.72 0.22  0.00   0.0 15.0 279.5 2.0 0 0.00  68. 1012.  2 NAD-SFC NoSubs
 8 12 21 356 12   97.3 -9.000 -9.000 -9.000   448.  -999. -99999.0 0.0471 0.72 0.21  0.00   0.0 15.0 281.0 2.0 0 0.00  60. 1011.  2 NAD-SFC NoSubs
 8 12 21 356 13   96.5 -9.000 -9.000 -9.000   517.  -999. -99999.0 0.0471 0.72 0.21  0.00   0.0 15.0 281.8 2.0 0 0.00  57. 1010.  2 NAD-SFC NoSubs
 8 12 21 356 14   81.1  0.087  1.086  0.013   569.   61.     -1.0 0.0960 0.72 0.22  0.50  14.0 15.0 282.1 2.0 0 0.00  57. 1009.  2 NAD-SFC NoSubs
 8 12 21 356 15   51.9  0.126  0.953  0.013   599.   107.    -3.5 0.0960 0.72 0.26  1.00  20.0 15.0 282.2 2.0 0 0.00  57. 1008.  2 NAD-SFC NoSubs
 8 12 21 356 16   11.7  0.100  0.583  0.013   606.   76.     -7.7 0.0650 0.72 0.35  1.00  34.0 15.0 282.0 2.0 0 0.00  61. 1007.  2 NAD-SFC NoSubs
 8 12 21 356 17   -2.5  0.080 -9.000 -9.000  -999.   55.     18.7 0.0650 0.72 0.64  1.00  45.0 15.0 281.6 2.0 0 0.00  64. 1007.  3 NAD-SFC NoSubs
 8 12 21 356 18 -999.0 -9.000 -9.000 -9.000  -999.  -999. -99999.0 0.0471 0.72 1.00  0.00   0.0 15.0 281.2 2.0 0 0.00  67. 1007.  3 NAD-SFC NoSubs
 8 12 21 356 19 -999.0 -9.000 -9.000 -9.000  -999.  -999. -99999.0 0.0471 0.72 1.00  0.00   0.0 15.0 281.1 2.0 0 0.00  69. 1006.  4 NAD-SFC NoSubs
 8 12 21 356 20 -999.0 -9.000 -9.000 -9.000  -999.  -999. -99999.0 0.0471 0.72 1.00  0.00   0.0 15.0 280.9 2.0 0 0.00  71. 1006.  8 NAD-SFC NoSubs
 8 12 21 356 21 -999.0 -9.000 -9.000 -9.000  -999.  -999. -99999.0 0.0471 0.72 1.00  0.00   0.0 15.0 280.8 2.0 0 0.00  72. 1006. 10 NAD-SFC NoSubs
 8 12 21 356 22   -1.4  0.062 -9.000 -9.000  -999.   37.     16.1 0.0310 0.72 1.00  1.00  97.0 15.0 280.8 2.0 0 0.00  73. 1005. 10 NAD-SFC NoSubs
 8 12 21 356 23   -1.4  0.065 -9.000 -9.000  -999.   39.     16.9 0.0400 0.72 1.00  1.00  87.0 15.0 280.8 2.0 0 0.00  73. 1005. 10 NAD-SFC NoSubs
 8 12 21 356 24   -2.8  0.087 -9.000 -9.000  -999.   61.     20.8 0.0310 0.72 1.00  1.50  98.0 15.0 280.8 2.0 0 0.00  73. 1004. 10 NAD-SFC NoSubs
 8 12 22 357  1   -1.3  0.062 -9.000 -9.000  -999.   37.     16.1 0.0310 0.72 1.00  1.00 119.0 15.0 280.9 2.0 0 0.00  72. 1003. 10 NAD-SFC NoSubs
 8 12 22 357  2   -1.3  0.062 -9.000 -9.000  -999.   37.     15.9 0.0280 0.72 1.00  1.00 140.0 15.0 280.9 2.0 0 0.00  74. 1003. 10 NAD-SFC NoSubs
 8 12 22 357  3   -1.3  0.061 -9.000 -9.000  -999.   36.     15.5 0.0240 0.72 1.00  1.00 179.0 15.0 280.9 2.0 0 0.00  77. 1003. 10 NAD-SFC NoSubs
 8 12 22 357  4   -0.5  0.051 -9.000 -9.000  -999.   27.     21.3 0.0310 0.72 1.00  0.50 110.0 15.0 280.8 2.0 0 0.00  82. 1002. 10 NAD-SFC NoSubs
 8 12 22 357  5   -4.6  0.100 -9.000 -9.000  -999.   76.     19.6 0.0650 0.72 1.00  1.50  57.0 15.0 280.2 2.0 0 0.51  95. 1002.  5 NAD-SFC NoSubs
 8 12 22 357  6   -3.9  0.092 -9.000 -9.000  -999.   67.     17.9 0.0400 0.72 1.00  1.50  81.0 15.0 280.2 2.0 0 0.51 100. 1003.  6 NAD-SFC NoSubs
 8 12 22 357  7   -1.4  0.065 -9.000 -9.000  -999.   39.     16.9 0.0400 0.72 1.00  1.00  69.0 15.0 280.8 2.0 0 0.51 100. 1003. 10 NAD-SFC NoSubs
 8 12 22 357  8   -1.5  0.068 -9.000 -9.000  -999.   43.     18.7 0.0650 0.72 0.59  1.00  37.0 15.0 281.1 2.0 0 0.25 100. 1003. 10 NAD-SFC NoSubs
 8 12 22 357  9   19.7 -9.000 -9.000 -9.000   206.  -999. -99999.0 0.0471 0.72 0.34  0.00   0.0 15.0 281.5 2.0 0 0.25  99. 1003.  5 NAD-SFC NoSubs
 8 12 22 357 10   57.6  0.347  0.786  0.009   302.   490.    -64.7 0.0800 0.72 0.25  4.10 310.0 15.0 284.1 2.0 0 0.00  72. 1004.  3 NAD-SFC NoSubs
 8 12 22 357 11   85.4  0.390  0.987  0.008   403.   584.    -62.1 0.0800 0.72 0.22  4.60 312.0 15.0 285.2 2.0 0 0.00  56. 1003.  3 NAD-SFC NoSubs
 8 12 22 357 12   96.0  0.322  1.090  0.009   483.   442.    -31.2 0.0800 0.72 0.21  3.60 315.0 15.0 285.9 2.0 0 0.00  50. 1003.  5 NAD-SFC NoSubs
 8 12 22 357 13   95.3  0.287  1.137  0.008   551.   370.    -22.2 0.0800 0.72 0.21  3.10 309.0 15.0 286.2 2.0 0 0.00  48. 1002.  5 NAD-SFC NoSubs
 8 12 22 357 14   76.4  0.254  1.087  0.008   600.   307.    -19.1 0.0420 0.72 0.22  3.10 296.0 15.0 286.4 2.0 0 0.00  49. 1002.  6 NAD-SFC NoSubs
 8 12 22 357 15   45.8  0.272  0.930  0.007   627.   340.    -39.2 0.0800 0.72 0.26  3.10 300.0 15.0 286.2 2.0 0 0.00  52. 1002.  7 NAD-SFC NoSubs
 8 12 22 357 16   16.1  0.199  0.660  0.007   637.   214.    -43.5 0.0420 0.72 0.35  2.60 288.0 15.0 286.2 2.0 0 0.00  58. 1002.  6 NAD-SFC NoSubs
 8 12 22 357 17  -20.3  0.230 -9.000 -9.000  -999.   264.    53.3 0.0420 0.72 0.64  3.60 278.0 15.0 285.6 2.0 0 0.00  60. 1002.  5 NAD-SFC NoSubs
 8 12 22 357 18  -27.0  0.297 -9.000 -9.000  -999.   388.    86.6 0.0420 0.72 1.00  4.60 284.0 15.0 284.6 2.0 0 0.00  63. 1002.  6 NAD-SFC NoSubs
 8 12 22 357 19  -32.0  0.328 -9.000 -9.000  -999.   450.    98.1 0.0200 0.72 1.00  5.70 266.0 15.0 282.4 2.0 0 0.00  77. 1003.  5 NAD-SFC NoSubs
 8 12 22 357 20  -36.3  0.370 -9.000 -9.000  -999.   541.   125.0 0.0420 0.72 1.00  5.70 279.0 15.0 281.5 2.0 0 0.00  85. 1003.  5 NAD-SFC NoSubs
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8	12	22	357	21	-32.4	0.330	-9.000	-9.000	-999.	456.	98.9	0.0420	0.72	1.00	5.10	276.0	15.0	280.9	2.0	0	0.00	88.	1003.	5	NAD-SFC NoSubs
8	12	22	357	22	-34.2	0.329	-9.000	-9.000	-999.	454.	93.7	0.0420	0.72	1.00	5.10	277.0	15.0	280.4	2.0	0	0.00	90.	1004.	4	NAD-SFC NoSubs
8	12	22	357	23	-34.2	0.329	-9.000	-9.000	-999.	454.	93.5	0.0420	0.72	1.00	5.10	288.0	15.0	279.8	2.0	0	0.00	92.	1004.	4	NAD-SFC NoSubs
8	12	22	357	24	-27.3	0.262	-9.000	-9.000	-999.	325.	59.2	0.0420	0.72	1.00	4.10	299.0	15.0	279.2	2.0	0	0.00	93.	1004.	4	NAD-SFC NoSubs
8	12	23	358	1	-25.7	0.259	-9.000	-9.000	-999.	316.	60.5	0.0800	0.72	1.00	3.60	312.0	15.0	278.9	2.0	0	0.00	95.	1005.	5	NAD-SFC NoSubs
8	12	23	358	2	-19.0	0.222	-9.000	-9.000	-999.	252.	51.6	0.0800	0.72	1.00	3.10	301.0	15.0	278.8	2.0	0	0.00	97.	1005.	7	NAD-SFC NoSubs
8	12	23	358	3	-15.2	0.197	-9.000	-9.000	-999.	210.	45.1	0.0420	0.72	1.00	3.10	290.0	15.0	278.8	2.0	0	0.00	96.	1005.	8	NAD-SFC NoSubs
8	12	23	358	4	-19.7	0.230	-9.000	-9.000	-999.	265.	55.4	0.0420	0.72	1.00	3.60	294.0	15.0	278.9	2.0	0	0.00	95.	1005.	7	NAD-SFC NoSubs
8	12	23	358	5	-19.7	0.230	-9.000	-9.000	-999.	265.	55.4	0.0420	0.72	1.00	3.60	295.0	15.0	279.0	2.0	0	0.00	93.	1005.	7	NAD-SFC NoSubs
8	12	23	358	6	-19.7	0.230	-9.000	-9.000	-999.	265.	55.4	0.0420	0.72	1.00	3.60	282.0	15.0	279.0	2.0	0	0.00	92.	1005.	7	NAD-SFC NoSubs
8	12	23	358	7	-15.2	0.197	-9.000	-9.000	-999.	210.	45.1	0.0420	0.72	1.00	3.10	277.0	15.0	279.0	2.0	0	0.00	92.	1006.	8	NAD-SFC NoSubs
8	12	23	358	8	-10.5	0.199	-9.000	-9.000	-999.	213.	67.0	0.0420	0.72	0.60	3.10	292.0	15.0	279.0	2.0	0	0.00	91.	1006.	10	NAD-SFC NoSubs
8	12	23	358	9	-0.3	0.176	-9.000	-9.000	-999.	178.	1791.7	0.0420	0.72	0.34	2.60	288.0	15.0	279.5	2.0	0	0.00	89.	1006.	10	NAD-SFC NoSubs
8	12	23	358	10	38.7	0.139	0.582	0.005	182.	125.	-6.3	0.0420	0.72	0.25	1.50	294.0	15.0	280.2	2.0	0	0.00	83.	1006.	8	NAD-SFC NoSubs
8	12	23	358	11	69.1	0.073	0.935	0.005	425.	48.	-1.0	0.0420	0.72	0.22	0.50	278.0	15.0	281.2	2.0	0	0.00	76.	1006.	7	NAD-SFC NoSubs
8	12	23	358	12	89.4	0.102	1.140	0.005	594.	79.	-1.1	0.0200	0.72	0.21	1.00	263.0	15.0	281.8	2.0	0	0.00	73.	1005.	6	NAD-SFC NoSubs
8	12	23	358	13	94.4	0.136	1.253	0.005	748.	120.	-2.4	0.0200	0.72	0.21	1.50	247.0	15.0	281.9	2.0	0	0.00	73.	1005.	5	NAD-SFC NoSubs
8	12	23	358	14	82.3	0.134	1.259	0.005	871.	117.	-2.6	0.0200	0.72	0.22	1.50	247.0	15.0	282.0	2.0	0	0.00	72.	1005.	4	NAD-SFC NoSubs
8	12	23	358	15	53.7	0.097	1.123	0.005	943.	73.	-1.5	0.0200	0.72	0.26	1.00	255.0	15.0	282.2	2.0	0	0.00	70.	1004.	3	NAD-SFC NoSubs
8	12	23	358	16	14.1	0.085	0.723	0.005	961.	59.	-3.8	0.0200	0.72	0.35	1.00	264.0	15.0	282.2	2.0	0	0.00	70.	1004.	3	NAD-SFC NoSubs
8	12	23	358	17	-0.9	0.062	-9.000	-9.000	-999.	37.	24.9	0.0200	0.72	0.64	0.50	269.0	15.0	281.8	2.0	0	0.00	73.	1004.	3	NAD-SFC NoSubs
8	12	23	358	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	281.0	2.0	0	0.00	77.	1004.	3	NAD-SFC NoSubs
8	12	23	358	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	280.4	2.0	0	0.00	82.	1004.	3	NAD-SFC NoSubs
8	12	23	358	20	-2.2	0.074	-9.000	-9.000	-999.	49.	16.8	0.0240	0.72	1.00	1.00	157.0	15.0	280.0	2.0	0	0.00	84.	1005.	3	NAD-SFC NoSubs
8	12	23	358	21	-7.2	0.117	-9.000	-9.000	-999.	96.	19.8	0.0240	0.72	1.00	2.10	150.0	15.0	280.0	2.0	0	0.00	85.	1005.	3	NAD-SFC NoSubs
8	12	23	358	22	-11.7	0.150	-9.000	-9.000	-999.	139.	25.7	0.0280	0.72	1.00	2.60	145.0	15.0	280.0	2.0	0	0.00	85.	1005.	2	NAD-SFC NoSubs
8	12	23	358	23	-11.6	0.150	-9.000	-9.000	-999.	139.	26.1	0.0280	0.72	1.00	2.60	141.0	15.0	279.9	2.0	0	0.00	84.	1005.	3	NAD-SFC NoSubs
8	12	23	358	24	-11.1	0.146	-9.000	-9.000	-999.	134.	25.1	0.0240	0.72	1.00	2.60	153.0	15.0	280.0	2.0	0	0.00	82.	1005.	3	NAD-SFC NoSubs
8	12	24	359	1	-11.0	0.146	-9.000	-9.000	-999.	134.	25.7	0.0240	0.72	1.00	2.60	170.0	15.0	280.1	2.0	0	0.00	79.	1005.	4	NAD-SFC NoSubs
8	12	24	359	2	-10.5	0.145	-9.000	-9.000	-999.	132.	25.9	0.0220	0.72	1.00	2.60	187.0	15.0	280.2	2.0	0	0.00	79.	1005.	5	NAD-SFC NoSubs
8	12	24	359	3	-8.3	0.150	-9.000	-9.000	-999.	139.	36.6	0.0240	0.72	1.00	2.60	170.0	15.0	280.2	2.0	0	0.25	78.	1005.	10	NAD-SFC NoSubs
8	12	24	359	4	-14.0	0.248	-9.000	-9.000	-999.	297.	97.7	0.0280	0.72	1.00	4.10	130.0	15.0	280.2	2.0	0	0.51	75.	1005.	10	NAD-SFC NoSubs
8	12	24	359	5	-20.1	0.356	-9.000	-9.000	-999.	509.	200.8	0.0310	0.72	1.00	5.70	119.0	15.0	280.2	2.0	0	0.51	73.	1005.	10	NAD-SFC NoSubs
8	12	24	359	6	-21.5	0.382	-9.000	-9.000	-999.	566.	231.5	0.0280	0.72	1.00	6.20	121.0	15.0	280.4	2.0	0	0.51	78.	1005.	10	NAD-SFC NoSubs
8	12	24	359	7	-23.7	0.421	-9.000	-9.000	-999.	655.	281.7	0.0310	0.72	1.00	6.70	119.0	15.0	280.6	2.0	0	0.76	80.	1004.	10	NAD-SFC NoSubs
8	12	24	359	8	-32.2	0.451	-9.000	-9.000	-999.	727.	256.0	0.0310	0.72	0.60	7.20	117.0	15.0	280.8	2.0	0	0.51	80.	1004.	7	NAD-SFC NoSubs
8	12	24	359	9	19.1	0.497	0.364	0.005	90.	841.	-577.8	0.0280	0.72	0.34	7.70	125.0	15.0	281.2	2.0	0	0.51	78.	1004.	5	NAD-SFC NoSubs
8	12	24	359	10	57.0	0.547	0.855	0.005	392.	969.	-257.0	0.0310	0.72	0.25	8.20	119.0	15.0	281.9	2.0	0	0.25	75.	1004.	4	NAD-SFC NoSubs
8	12	24	359	11	84.3	0.553	1.107	0.005	576.	986.	-179.1	0.0310	0.72	0.22	8.20	116.0	15.0	282.9	2.0	0	0.25	71.	1003.	4	NAD-SFC NoSubs
8	12	24	359	12	98.2	0.517	1.297	0.005	795.	894.	-125.6	0.0280	0.72	0.21	7.70	124.0	15.0	284.1	2.0	0	0.00	68.	1002.	4	NAD-SFC NoSubs
8	12	24	359	13	97.8	0.487	1.393	0.006	989.	817.	-105.3	0.0280	0.72	0.21	7.20	120.0	15.0	284.6	2.0	0	0.00	68.	1001.	4	NAD-SFC NoSubs
8	12	24	359	14	83.2	0.491	1.353	0.006	1063.	826.	-127.2	0.0310	0.72	0.22	7.20	119.0	15.0	284.9	2.0	0	0.00	68.	1000.	4	NAD-SFC NoSubs
8	12	24	359	15	55.0	0.447	1.196	0.006	1109.	720.	-145.0	0.0280	0.72	0.25	6.70	120.0	15.0	284.8	2.0	0	0.00	68.	1000.	4	NAD-SFC NoSubs
8	12	24	359	16	16.1	0.434	0.798	0.006	1122.	688.	-453.3	0.0280	0.72	0.35	6.70	123.0	15.0	284.2	2.0	0	0.00	70.	999.	4	NAD-SFC NoSubs
8	12	24	359	17	-38.1	0.409	-9.000	-9.000	-999.	629.	160.6	0.0280	0.72	0.63	6.70	122.0	15.0	283.8	2.0	0	0.00	71.	999.	4	NAD-SFC NoSubs
8	12	24	359	18	-42.8	0.441	-9.000	-9.000	-999.	702.	178.4	0.0280	0.72	1.00	7.20	135.0	15.0	283.5	2.0	0	0.25	72.	999.	5	NAD-SFC NoSubs
8	12	24	359	19	-42.8	0.441	-9.000	-9.000	-999.	703.	178.4	0.0280	0.72	1.00	7.20	134.0	15.0	283.5	2.0	0	0.25	73.	999.	5	NAD-SFC NoSubs
8	12	24	359	20	-45.9	0.473	-9.000	-9.000	-999.	780.	205.3	0.0280	0.72	1.00	7.70	131.0	15.0	283.5	2.0	0	0.25	73.	999.	5	NAD-SFC NoSubs
8	12	24	359	21	-42.8	0.441	-9.000	-9.000	-999.	704.	178.5	0.0280	0.72	1.00	7.20	127.0	15.0	283.6	2.0	0	0.00	72.	999.	5	NAD-SFC NoSubs
8	12	24	359	22	-45.9	0.473	-9.000	-9.000	-999.	780.	205.4	0.0280	0.72	1.00	7.70	127.0	15.0	283.8	2.0	0	0.00	71.	999.	5	NAD-SFC NoSubs
8	12	24	359	23	-39.6	0.409	-9.000	-9.000	-999.	631.	153.8	0.0280	0.72	1.00	6.70	127.0	15.0	283.9	2.0	0	0.00	71.	999.	5	NAD-SFC NoSubs
8	12	24	359	24	-36.5	0.377	-9.000	-9.000	-999.	557.	130.9	0.0280	0.72	1.00	6.20	130.0	15.0	284.0	2.0	0	0.00	72.	999.	5	NAD-SFC NoSubs
8	12	25	360	1	-29.8	0.308	-9.000	-9.000	-999.	413.	87.2	0.0280	0.72	1.00	5.10	136.0	15.0	284.1	2.0	0	0.00	72.	998.	5	NAD-SFC NoSubs
8	12	25	360	2	-27.9	0.308	-9.000	-9.000	-999.	411.	93.3	0.0280	0.72	1.00	5.10	139.0	15.0	284.2	2.0	0	0.00	73.	998.	6	NAD-SFC NoSubs
8	12	25	360	3	-26.7	0.277	-9.000	-9.000	-999.	349.	70.4	0.0280	0.72	1.00	4.60	137.0	15.0	284.4	2.0	0	0.00	74.	997.	5	NAD-SFC NoSubs
8	12	25	360	4	-23.7	0.245	-9.000	-9.000	-999.	292.	55.4	0.0280	0.72	1.00	4.10	128.0	15.0	284.6	2.0	0	0.00	75.	997.	5	NAD-SFC NoSubs
8	12	25	360	5	-23.6	0.245	-9.000	-9.000	-999.	291.	55.4	0.0280	0.72	1.00	4.10	129.0	15.0	284.6	2.0	0	0.00	77.	996.	5	NAD-SFC NoSubs
8	12	25	360	6	-23.6	0.245	-9.000	-9.000	-999.	291.	55.4	0.0280	0.72	1.00	4.10	122.0	15.0	284.5	2.0	0	0.25	80.	996.	5	NAD-SFC NoSubs
8	12	25	360	7	-24.1	0.249	-9.000	-9.000	-999.	299.	57.3	0.0310	0.72	1.00	4.10	117.0	15.0	284.4	2.0	0	0.00	82.	996.	5	NAD-SFC NoSubs
8	12	25	360	8	-16.3	0.215	-9.000	-9.000	-999.	240.	54.4	0.0280	0.72	0.60	3.60	123.0	15.0	284.4	2.0	0	0.25	84.	996.	6	NAD-SFC NoSubs
8	12	25	360	9	19.6	0.090	0.351	0.005	78.	76.	-3.3	0.0240	0.72	0.34	1.00	168.0	15.0	284.8	2.0	0	0.25	86.	996.	5	NAD-SFC NoSubs
8	12	25	360	10	57.8	0.541	0.818	0.005	337.	956.	-243.9	0.0200	0.72	0.25	8.70	264.0	15.0	287.4	2.0	0	0.00	77.	997.	3	NAD-SFC NoSubs
8	12	25	360	11	83.5	0.668	1.093	0.005	556.	1309.	-317.5	0.0200	0.72	0.22	10.80	267.0	15.0	288.4	2.0	0	0.00	62.	997.	5	NAD-SFC NoSubs
8	12	25	360	12	96.8	0.686	1.272	0.005	757.	1362.	-296.5	0.0420	0.72	0.21	9.80	278.0	15.0	288.6	2.0	0	0.00	55.	997.	5	NAD-SFC NoSubs
8	12	25	360	13	99.0	0.615	1.376	0.005	936.	1165.	-208.9	0.0420	0.72	0.21	8.70	279.0	15.0	288.4	2.0	0	0.00	53.	997.	4	NAD-SFC NoSubs
8	12	25	360	14	84.3	0.548	1.349	0.005	1037.	979.	-173.2	0.0420	0.72	0.22	7.70	277.0	15.0	288.0	2.0	0	0.00	54.	997.	4	NAD-SFC NoSubs
8	12	25	360	15	55.8	0.412	1.196	0.005	1091.	652.	-111.8	0.0420	0.72	0.25	5.70	273.0	15.0	287.8	2.0	0	0.00	58.	997.	3	NAD-SFC NoSubs
8	12	25	360	16	15.8	0.384	0.789	0.005	1104.	571.	-317.1	0.0200	0.72	0.35	6.20	258.0	15.0	286.2	2.0	0	0.00	62.	997.	3	NAD-SFC NoSubs
8	12	25	360	17	-34.4	0.358	-9.000	-9.000	-999.	514.	118.4	0.0200	0.72	0.63	6.20	268.0	15.0	284.6	2.0	0	0.00	64.	998.	3	NAD-SFC NoSubs
8	12	25	360	18	-42.8	0.404	-9.000	-9.000	-999.	615.	137.0	0.0420	0.72	1.00	6.20	282.0	15.0	283.5	2.0	0	0.00	65.	1000.	3	NAD-SFC NoSubs
8	12	25	360	19	-41.4	0.404	-9.000	-9.000	-999.	616.	141.8	0.0420	0.72	1.00	6.20	282.0	15.0	282.4	2.0	0	0.00	69.	1001.	4	NAD-SFC NoSubs
8	12	25	360	20	-41.7	0.404	-9.000	-9.000	-999.	616.	141.2	0.0420	0.72	1.00	6.20	292.0	15.0	281.2	2.0	0	0.00	73.	1003.	4	NAD-SFC NoSubs
8	12	25	360	21	-38.6	0.372	-9.000	-9.000	-999.	546.	119.5	0.0800	0.72	1.00	5.10	305.0	15.0	280.4	2.0	0	0.00	75.	1005.	4	NAD-SFC NoSubs
8	12	25	360	22	-30.8	0.296	-9.000	-9.000	-999.	390.	75.8	0.0800	0.72	1.00	4.10	315.0	15.0	280.1	2.0	0	0.00	76.	1006.	4	NAD-SFC NoSubs
8	12	25	360	23	-27.0	0.259	-9.000	-9.000	-999.	316.	57.6	0.0800	0.72	1.00	3.60	323.0	15.0	279.8	2.0	0	0.25	78.	1007.	4	NAD-SFC NoSubs
8	12	25	360	24	-22.2	0.221	-9.000	-9.000	-999.	249.	43.5	0.0800	0.72	1.00	3.10	319.0	15.0	279.2	2.0	0	0.25	79.	1008.	4	NAD-SFC NoSubs
8	12	26	361	1	-22.2	0.221	-9.000	-9.000	-999.	249.	43.5	0.0800	0.72	1.00	3.10	320.0	15.0	279.0	2.0	0	0.25	80.	1009.	4	NAD-SFC NoSubs

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 8 12 26 361  2  -27.2  0.259 -9.000 -9.000 -999.  316.     57.3  0.0800  0.72  1.00   3.60  322.0  15.0  278.5  2.0   0  0.00   82.  1010.   4 NAD-SFC NoSubs
 8 12 26 361  3  -32.4  0.296 -9.000 -9.000 -999.  387.     72.2  0.0800  0.72  1.00   4.10  324.0  15.0  277.8  2.0   0  0.00   84.  1010.   3 NAD-SFC NoSubs
 8 12 26 361  4  -33.3  0.296 -9.000 -9.000 -999.  386.     70.1  0.0800  0.72  1.00   4.10  325.0  15.0  277.0  2.0   0  0.00   87.  1011.   2 NAD-SFC NoSubs
 8 12 26 361  5  -29.2  0.258 -9.000 -9.000 -999.  315.     53.2  0.0800  0.72  1.00   3.60  321.0  15.0  276.2  2.0   0  0.00   90.  1012.   2 NAD-SFC NoSubs
 8 12 26 361  6  -23.1  0.220 -9.000 -9.000 -999.  248.     41.7  0.0800  0.72  1.00   3.10  325.0  15.0  275.8  2.0   0  0.00   91.  1012.   2 NAD-SFC NoSubs
 8 12 26 361  7  -10.9  0.150 -9.000 -9.000 -999.  141.     27.9  0.0950  0.72  1.00   2.10  336.0  15.0  275.4  2.0   0  0.00   91.  1014.   2 NAD-SFC NoSubs
 8 12 26 361  8   -2.5  0.080 -9.000 -9.000 -999.   56.     18.7  0.0650  0.72  0.60   1.00   31.0  15.0  275.1  2.0   0  0.00   91.  1014.   2 NAD-SFC NoSubs
 8 12 26 361  9   14.8  0.191  0.322  0.005   81.  200.    -42.4  0.0960  0.72  0.34   2.10   14.0  15.0  276.6  2.0   0  0.00   79.  1015.   2 NAD-SFC NoSubs
 8 12 26 361 10   54.5  0.211  0.786  0.005  323.  232.    -15.6  0.0960  0.72  0.25   2.10   12.0  15.0  278.1  2.0   0  0.00   66.  1016.   2 NAD-SFC NoSubs
 8 12 26 361 11   82.8  0.174  1.106  0.005  592.  174.     -5.7  0.0960  0.72  0.22   1.50    1.0  15.0  279.2  2.0   0  0.00   57.  1016.   2 NAD-SFC NoSubs
 8 12 26 361 12   97.2  0.135  1.326  0.005  868.  120.     -2.3  0.0950  0.72  0.21   1.00  338.0  15.0  280.2  2.0   0  0.00   50.  1015.   2 NAD-SFC NoSubs
 8 12 26 361 13   97.9  0.135  1.410  0.005 1039.  120.     -2.3  0.0950  0.72  0.21   1.00  353.0  15.0  280.9  2.0   0  0.00   46.  1015.   3 NAD-SFC NoSubs
 8 12 26 361 14   83.2  0.220  1.377  0.005 1135.  247.    -11.5  0.0960  0.72  0.22   2.10    2.0  15.0  281.4  2.0   0  0.00   43.  1014.   3 NAD-SFC NoSubs
 8 12 26 361 15   54.7  0.248  1.217  0.005 1194.  296.    -25.2  0.0960  0.72  0.25   2.60    2.0  15.0  281.5  2.0   0  0.00   43.  1014.   3 NAD-SFC NoSubs
 8 12 26 361 16   13.5 -9.000 -9.000 -9.000 1208. -999. -99999.0  0.0471  0.72  0.35   0.00    0.0  15.0  281.2  2.0   0  0.00   49.  1014.   2 NAD-SFC NoSubs
 8 12 26 361 17   -5.3  0.108 -9.000 -9.000 -999.   85.     21.3  0.0960  0.72  0.62   1.50    6.0  15.0  280.8  2.0   0  0.00   52.  1014.   2 NAD-SFC NoSubs
 8 12 26 361 18   -1.2  0.072 -9.000 -9.000 -999.   47.     28.8  0.0650  0.72  1.00   0.50   41.0  15.0  280.0  2.0   0  0.00   55.  1015.   2 NAD-SFC NoSubs
 8 12 26 361 19   -1.0  0.068 -9.000 -9.000 -999.   42.     27.0  0.0310  0.72  1.00   0.50  101.0  15.0  278.9  2.0   0  0.00   60.  1015.   2 NAD-SFC NoSubs
 8 12 26 361 20   -2.3  0.076 -9.000 -9.000 -999.   51.     17.3  0.0280  0.72  1.00   1.00  120.0  15.0  277.8  2.0   0  0.00   66.  1016.   2 NAD-SFC NoSubs
 8 12 26 361 21   -7.7  0.120 -9.000 -9.000 -999.   99.     20.2  0.0280  0.72  1.00   2.10  138.0  15.0  277.1  2.0   0  0.00   70.  1017.   2 NAD-SFC NoSubs
 8 12 26 361 22   -7.7  0.120 -9.000 -9.000 -999.   99.     20.1  0.0280  0.72  1.00   2.10  140.0  15.0  276.8  2.0   0  0.00   71.  1017.   2 NAD-SFC NoSubs
 8 12 26 361 23   -7.7  0.120 -9.000 -9.000 -999.   99.     20.1  0.0280  0.72  1.00   2.10  127.0  15.0  276.4  2.0   0  0.00   71.  1018.   2 NAD-SFC NoSubs
 8 12 26 361 24   -4.2  0.090 -9.000 -9.000 -999.   65.     16.0  0.0280  0.72  1.00   1.50  130.0  15.0  276.1  2.0   0  0.00   72.  1017.   2 NAD-SFC NoSubs
 8 12 27 362  1   -4.2  0.090 -9.000 -9.000 -999.   65.     16.0  0.0280  0.72  1.00   1.50  142.0  15.0  275.8  2.0   0  0.00   73.  1018.   2 NAD-SFC NoSubs
 8 12 27 362  2   -2.3  0.075 -9.000 -9.000 -999.   50.     17.0  0.0240  0.72  1.00   1.00  165.0  15.0  275.2  2.0   0  0.00   75.  1018.   2 NAD-SFC NoSubs
 8 12 27 362  3   -2.3  0.075 -9.000 -9.000 -999.   49.     16.9  0.0220  0.72  1.00   1.00  208.0  15.0  274.8  2.0   0  0.00   77.  1018.   2 NAD-SFC NoSubs
 8 12 27 362  4   -3.9  0.087 -9.000 -9.000 -999.   61.     15.2  0.0200  0.72  1.00   1.50  258.0  15.0  274.2  2.0   0  0.00   79.  1018.   2 NAD-SFC NoSubs
 8 12 27 362  5   -8.6  0.128 -9.000 -9.000 -999.  110.     22.1  0.0420  0.72  1.00   2.10  284.0  15.0  273.9  2.0   0  0.00   80.  1019.   2 NAD-SFC NoSubs
 8 12 27 362  6   -4.6  0.095 -9.000 -9.000 -999.   71.     17.3  0.0420  0.72  1.00   1.50  276.0  15.0  273.6  2.0   0  0.00   79.  1019.   2 NAD-SFC NoSubs
 8 12 27 362  7   -2.6  0.080 -9.000 -9.000 -999.   54.     18.2  0.0420  0.72  1.00   1.00  293.0  15.0  273.2  2.0   0  0.00   78.  1020.   2 NAD-SFC NoSubs
 8 12 27 362  8   -2.3  0.077 -9.000 -9.000 -999.   51.     17.7  0.0420  0.72  0.61   1.00  286.0  15.0  273.1  2.0   0  0.00   78.  1020.   2 NAD-SFC NoSubs
 8 12 27 362  9   14.3  0.106  0.306  0.008   72.   83.     -7.5  0.0800  0.72  0.34   1.00  323.0  15.0  274.4  2.0   0  0.00   66.  1020.   2 NAD-SFC NoSubs
 8 12 27 362 10   54.1  0.079  0.663  0.006  196.   54.     -1.0  0.0800  0.72  0.25   0.50  314.0  15.0  276.1  2.0   0  0.00   60.  1020.   2 NAD-SFC NoSubs
 8 12 27 362 11   82.6  0.084  0.931  0.006  355.   58.     -1.0  0.0800  0.72  0.22   0.50  312.0  15.0  277.9  2.0   0  0.00   52.  1020.   2 NAD-SFC NoSubs
 8 12 27 362 12   97.2  0.086  1.120  0.006  526.   60.     -1.0  0.0800  0.72  0.21   0.50  306.0  15.0  279.4  2.0   0  0.00   46.  1019.   2 NAD-SFC NoSubs
 8 12 27 362 13   97.2  0.086  1.210  0.007  662.   60.     -1.0  0.0800  0.72  0.21   0.50  326.0  15.0  280.4  2.0   0  0.00   44.  1018.   2 NAD-SFC NoSubs
 8 12 27 362 14   82.5  0.133  1.188  0.008  738.  116.     -2.6  0.0950  0.72  0.22   1.00  352.0  15.0  281.1  2.0   0  0.00   43.  1017.   2 NAD-SFC NoSubs
 8 12 27 362 15   53.8  0.210  1.051  0.008  783.  231.    -15.7  0.0950  0.72  0.25   2.10  356.0  15.0  281.4  2.0   0  0.00   43.  1017.   2 NAD-SFC NoSubs
 8 12 27 362 16   13.9 -9.000 -9.000 -9.000  794. -999. -99999.0  0.0471  0.72  0.35   0.00    0.0  15.0  281.2  2.0   0  0.00   47.  1016.   2 NAD-SFC NoSubs
 8 12 27 362 17   -5.3  0.108 -9.000 -9.000 -999.   85.     21.3  0.0950  0.72  0.62   1.50  355.0  15.0  280.6  2.0   0  0.00   50.  1016.   2 NAD-SFC NoSubs
 8 12 27 362 18   -3.0  0.087 -9.000 -9.000 -999.   62.     20.0  0.0950  0.72  1.00   1.00  331.0  15.0  279.8  2.0   0  0.00   54.  1017.   2 NAD-SFC NoSubs
 8 12 27 362 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  278.9  2.0   0  0.00   58.  1017.   2 NAD-SFC NoSubs
 8 12 27 362 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  278.1  2.0   0  0.00   63.  1017.   2 NAD-SFC NoSubs
 8 12 27 362 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  277.2  2.0   0  0.00   67.  1018.   2 NAD-SFC NoSubs
 8 12 27 362 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  276.6  2.0   0  0.00   71.  1018.   2 NAD-SFC NoSubs
 8 12 27 362 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  276.2  2.0   0  0.00   74.  1019.   2 NAD-SFC NoSubs
 8 12 27 362 24   -1.1  0.070 -9.000 -9.000 -999.   44.     27.7  0.0400  0.72  1.00   0.50   68.0  15.0  275.6  2.0   0  0.00   76.  1018.   2 NAD-SFC NoSubs
 8 12 28 363  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  275.2  2.0   0  0.00   79.  1018.   2 NAD-SFC NoSubs
 8 12 28 363  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  274.8  2.0   0  0.00   80.  1018.   2 NAD-SFC NoSubs
 8 12 28 363  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  274.4  2.0   0  0.00   81.  1017.   2 NAD-SFC NoSubs
 8 12 28 363  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  274.1  2.0   0  0.00   82.  1017.   2 NAD-SFC NoSubs
 8 12 28 363  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  273.8  2.0   0  0.00   83.  1017.   2 NAD-SFC NoSubs
 8 12 28 363  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  273.5  2.0   0  0.00   84.  1018.   2 NAD-SFC NoSubs
 8 12 28 363  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  273.2  2.0   0  0.00   84.  1018.   2 NAD-SFC NoSubs
 8 12 28 363  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.61   0.00    0.0  15.0  273.2  2.0   0  0.00   83.  1018.   2 NAD-SFC NoSubs
 8 12 28 363  9   14.2 -9.000 -9.000 -9.000   49. -999. -99999.0  0.0471  0.72  0.34   0.00    0.0  15.0  274.8  2.0   0  0.00   76.  1018.   2 NAD-SFC NoSubs
 8 12 28 363 10   54.3 -9.000 -9.000 -9.000  158. -999. -99999.0  0.0471  0.72  0.25   0.00    0.0  15.0  278.0  2.0   0  0.00   56.  1018.   2 NAD-SFC NoSubs
 8 12 28 363 11   83.0 -9.000 -9.000 -9.000  297. -999. -99999.0  0.0471  0.72  0.22   0.00    0.0  15.0  279.9  2.0   0  0.00   50.  1018.   2 NAD-SFC NoSubs
 8 12 28 363 12   97.8 -9.000 -9.000 -9.000  406. -999. -99999.0  0.0471  0.72  0.21   0.00    0.0  15.0  281.6  2.0   0  0.00   44.  1017.   2 NAD-SFC NoSubs
 8 12 28 363 13   97.9  0.086  1.086  0.011  474.   60.     -1.0  0.0800  0.72  0.21   0.50  306.0  15.0  282.9  2.0   0  0.00   39.  1015.   2 NAD-SFC NoSubs
 8 12 28 363 14   84.4  0.084  1.070  0.010  525.   58.     -1.0  0.0800  0.72  0.22   0.50  307.0  15.0  283.8  2.0   0  0.00   38.  1014.   3 NAD-SFC NoSubs
 8 12 28 363 15   56.1  0.080  0.952  0.010  556.   54.     -1.0  0.0800  0.72  0.25   0.50  324.0  15.0  284.1  2.0   0  0.00   38.  1014.   3 NAD-SFC NoSubs
 8 12 28 363 16   16.6  0.070  0.639  0.010  565.   45.     -1.9  0.0950  0.72  0.34   0.50  346.0  15.0  283.9  2.0   0  0.00   41.  1013.   3 NAD-SFC NoSubs
 8 12 28 363 17   -1.2  0.072 -9.000 -9.000 -999.   46.     28.7  0.0960  0.72  0.61   0.50   28.0  15.0  283.1  2.0   0  0.00   46.  1012.   2 NAD-SFC NoSubs
 8 12 28 363 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  282.2  2.0   0  0.00   51.  1013.   2 NAD-SFC NoSubs
 8 12 28 363 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  281.2  2.0   0  0.00   57.  1013.   2 NAD-SFC NoSubs
 8 12 28 363 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  280.5  2.0   0  0.00   61.  1013.   2 NAD-SFC NoSubs
 8 12 28 363 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  279.9  2.0   0  0.00   64.  1013.   2 NAD-SFC NoSubs
 8 12 28 363 22   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0400  0.72  1.00   0.50   71.0  15.0  279.4  2.0   0  0.00   67.  1013.   2 NAD-SFC NoSubs
 8 12 28 363 23   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0400  0.72  1.00   0.50   76.0  15.0  279.0  2.0   0  0.00   69.  1013.   2 NAD-SFC NoSubs
 8 12 28 363 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  278.6  2.0   0  0.00   71.  1013.   2 NAD-SFC NoSubs
 8 12 29 364  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  278.1  2.0   0  0.00   73.  1012.   2 NAD-SFC NoSubs
 8 12 29 364  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  277.8  2.0   0  0.00   75.  1012.   2 NAD-SFC NoSubs
 8 12 29 364  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  277.2  2.0   0  0.00   77.  1012.   2 NAD-SFC NoSubs
 8 12 29 364  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  276.9  2.0   0  0.00   78.  1012.   2 NAD-SFC NoSubs
 8 12 29 364  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  276.6  2.0   0  0.00   80.  1012.   2 NAD-SFC NoSubs
 8 12 29 364  6   -1.1  0.070 -9.000 -9.000 -999.   44.     27.7  0.0400  0.72  1.00   0.50   87.0  15.0  276.2  2.0   0  0.00   80.  1012.   2 NAD-SFC NoSubs
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 8 12 29 364  7   -1.1  0.070 -9.000 -9.000 -999.   44.     27.7  0.0400  0.72  1.00  0.50   76.0  15.0 276.0  2.0    0   0.00   82.  1012.     2 NAD-SFC NoSubs
 8 12 29 364  8   -1.0  0.066 -9.000 -9.000 -999.   41.     26.7  0.0400  0.72  0.61  0.50   79.0  15.0 275.8  2.0    0   0.00   82.  1012.     2 NAD-SFC NoSubs
 8 12 29 364  9   14.3 -9.000 -9.000 -9.000   46. -999. -99999.0  0.0471  0.72  0.34  0.00    0.0  15.0 277.0  2.0    0   0.00   80.  1012.     2 NAD-SFC NoSubs
 8 12 29 364 10   54.6 -9.000 -9.000 -9.000  137. -999. -99999.0  0.0471  0.72  0.25  0.00    0.0  15.0 280.5  2.0    0   0.00   64.  1012.     2 NAD-SFC NoSubs
 8 12 29 364 11   83.6 -9.000 -9.000 -9.000  246. -999. -99999.0  0.0471  0.72  0.22  0.00    0.0  15.0 283.0  2.0    0   0.00   53.  1012.     2 NAD-SFC NoSubs
 8 12 29 364 12   98.6  0.086  0.976  0.012  340.   60.     -1.0  0.0800  0.72  0.21  0.50  306.0  15.0 284.6  2.0    0   0.00   51.  1011.     2 NAD-SFC NoSubs
 8 12 29 364 13   98.9  0.171  1.046  0.011  416.  170.     -4.6  0.0800  0.72  0.21  1.50  318.0  15.0 285.8  2.0    0   0.00   50.  1010.     2 NAD-SFC NoSubs
 8 12 29 364 14   84.4  0.220  1.037  0.010  476.  247.    -11.3  0.0950  0.72  0.22  2.10  335.0  15.0 286.1  2.0    0   0.00   50.  1010.     2 NAD-SFC NoSubs
 8 12 29 364 15   55.8  0.248  0.925  0.010  511.  296.    -24.6  0.0950  0.72  0.25  2.60  341.0  15.0 285.9  2.0    0   0.00   53.  1009.     2 NAD-SFC NoSubs
 8 12 29 364 16   15.8  0.191  0.612  0.010  520.  202.    -39.9  0.0960  0.72  0.34  2.10    2.0  15.0 285.1  2.0    0   0.00   59.  1009.     2 NAD-SFC NoSubs
 8 12 29 364 17   -5.2  0.108 -9.000 -9.000 -999.   87.     21.7  0.0960  0.72  0.61  1.50   21.0  15.0 284.0  2.0    0   0.00   62.  1008.     2 NAD-SFC NoSubs
 8 12 29 364 18   -1.2  0.072 -9.000 -9.000 -999.   47.     28.7  0.0650  0.72  1.00  0.50   48.0  15.0 283.1  2.0    0   0.00   67.  1008.     2 NAD-SFC NoSubs
 8 12 29 364 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 282.2  2.0    0   0.00   72.  1009.     2 NAD-SFC NoSubs
 8 12 29 364 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 281.5  2.0    0   0.00   76.  1009.     2 NAD-SFC NoSubs
 8 12 29 364 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 280.9  2.0    0   0.00   79.  1009.     2 NAD-SFC NoSubs
 8 12 29 364 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 280.4  2.0    0   0.00   81.  1009.     2 NAD-SFC NoSubs
 8 12 29 364 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 280.0  2.0    0   0.00   83.  1009.     2 NAD-SFC NoSubs
 8 12 29 364 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 279.5  2.0    0   0.00   85.  1009.     2 NAD-SFC NoSubs
 8 12 30 365  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 279.2  2.0    0   0.00   87.  1009.     2 NAD-SFC NoSubs
 8 12 30 365  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 278.9  2.0    0   0.00   88.  1009.     2 NAD-SFC NoSubs
 8 12 30 365  3   -1.0  0.068 -9.000 -9.000 -999.   42.     27.0  0.0310  0.72  1.00  0.50  105.0  15.0 278.6  2.0    0   0.00   89.  1009.     2 NAD-SFC NoSubs
 8 12 30 365  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 278.4  2.0    0   0.00   89.  1010.     2 NAD-SFC NoSubs
 8 12 30 365  5   -1.2  0.074 -9.000 -9.000 -999.   48.     29.4  0.0800  0.72  1.00  0.50  318.0  15.0 278.2  2.0    0   0.00   90.  1010.     2 NAD-SFC NoSubs
 8 12 30 365  6   -2.9  0.085 -9.000 -9.000 -999.   60.     19.6  0.0800  0.72  1.00  1.00  324.0  15.0 278.2  2.0    0   0.00   95.  1011.     2 NAD-SFC NoSubs
 8 12 30 365  7   -3.0  0.087 -9.000 -9.000 -999.   62.     20.0  0.0950  0.72  1.00  1.00  343.0  15.0 278.2  2.0    0   0.00  100.  1011.     2 NAD-SFC NoSubs
 8 12 30 365  8   -1.2  0.072 -9.000 -9.000 -999.   46.     28.8  0.0950  0.72  0.61  0.50  334.0  15.0 278.8  2.0    0   0.00  100.  1011.     2 NAD-SFC NoSubs
 8 12 30 365  9   14.5 -9.000 -9.000 -9.000   45. -999. -99999.0  0.0471  0.72  0.34  0.00    0.0  15.0 279.0  2.0    0   0.00  100.  1011.     2 NAD-SFC NoSubs
 8 12 30 365 10   54.4  0.067  0.606  0.011  147.   41.     -1.0  0.0310  0.72  0.25  0.50  109.0  15.0 279.2  2.0    0   0.00  100.  1011.     2 NAD-SFC NoSubs
 8 12 30 365 11   83.1 -9.000 -9.000 -9.000  282. -999. -99999.0  0.0471  0.72  0.22  0.00    0.0  15.0 279.6  2.0    0   0.00  100.  1011.     2 NAD-SFC NoSubs
 8 12 30 365 12   97.8  0.089  1.018  0.012  389.   63.     -1.0  0.0950  0.72  0.21  0.50  330.0  15.0 279.8  2.0    0   0.00  100.  1010.     2 NAD-SFC NoSubs
 8 12 30 365 13   97.9  0.089  1.087  0.012  472.   64.     -1.0  0.0950  0.72  0.21  0.50  333.0  15.0 279.9  2.0    0   0.00  100.  1010.     2 NAD-SFC NoSubs
 8 12 30 365 14   83.5  0.133  1.074  0.012  534.  117.     -2.5  0.0950  0.72  0.22  1.00  341.0  15.0 280.1  2.0    0   0.00  100.  1009.     2 NAD-SFC NoSubs
 8 12 30 365 15   55.1  0.127  0.956  0.012  571.  108.     -3.3  0.0960  0.72  0.25  1.00   15.0  15.0 280.2  2.0    0   0.00  100.  1009.     2 NAD-SFC NoSubs
 8 12 30 365 16   17.2  0.111  0.656  0.012  591.   89.     -7.2  0.0950  0.72  0.34  1.00  354.0  15.0 288.0  2.0    0   0.00   59.  1007.     2 NAD-SFC NoSubs
 8 12 30 365 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.60  0.00    0.0  15.0 287.2  2.0    0   0.00   62.  1007.     2 NAD-SFC NoSubs
 8 12 30 365 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 286.2  2.0    0   0.00   67.  1007.     2 NAD-SFC NoSubs
 8 12 30 365 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 285.1  2.0    0   0.00   73.  1008.     2 NAD-SFC NoSubs
 8 12 30 365 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 284.2  2.0    0   0.00   77.  1008.     2 NAD-SFC NoSubs
 8 12 30 365 21   -0.9  0.065 -9.000 -9.000 -999.   40.     25.8  0.0200  0.72  1.00  0.50  269.0  15.0 283.4  2.0    0   0.00   80.  1009.     2 NAD-SFC NoSubs
 8 12 30 365 22   -5.2  0.105 -9.000 -9.000 -999.   82.     19.9  0.0800  0.72  1.00  1.50  302.0  15.0 282.9  2.0    0   0.00   78.  1009.     2 NAD-SFC NoSubs
 8 12 30 365 23  -10.1  0.145 -9.000 -9.000 -999.  132.     26.9  0.0800  0.72  1.00  2.10  314.0  15.0 282.6  2.0    0   0.00   74.  1010.     2 NAD-SFC NoSubs
 8 12 30 365 24  -15.8  0.182 -9.000 -9.000 -999.  187.     34.4  0.0800  0.72  1.00  2.60  318.0  15.0 282.1  2.0    0   0.00   70.  1010.     2 NAD-SFC NoSubs
 8 12 31 366  1   -5.3  0.105 -9.000 -9.000 -999.   84.     19.9  0.0800  0.72  1.00  1.50  325.0  15.0 281.6  2.0    0   0.00   67.  1010.     2 NAD-SFC NoSubs
 8 12 31 366  2   -2.8  0.085 -9.000 -9.000 -999.   60.     19.5  0.0800  0.72  1.00  1.00  302.0  15.0 281.1  2.0    0   0.00   65.  1010.     2 NAD-SFC NoSubs
 8 12 31 366  3   -2.5  0.079 -9.000 -9.000 -999.   54.     18.1  0.0420  0.72  1.00  1.00  277.0  15.0 280.8  2.0    0   0.00   64.  1010.     2 NAD-SFC NoSubs
 8 12 31 366  4   -1.1  0.069 -9.000 -9.000 -999.   44.     27.7  0.0420  0.72  1.00  0.50  273.0  15.0 280.2  2.0    0   0.00   64.  1010.     2 NAD-SFC NoSubs
 8 12 31 366  5   -1.2  0.074 -9.000 -9.000 -999.   48.     29.4  0.0800  0.72  1.00  0.50  300.0  15.0 280.0  2.0    0   0.00   63.  1010.     2 NAD-SFC NoSubs
 8 12 31 366  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 279.5  2.0    0   0.00   64.  1011.     2 NAD-SFC NoSubs
 8 12 31 366  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 279.0  2.0    0   0.00   66.  1011.     2 NAD-SFC NoSubs
 8 12 31 366  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.61  0.00    0.0  15.0 278.6  2.0    0   0.00   67.  1011.     2 NAD-SFC NoSubs
 8 12 31 366  9   14.5  0.067  0.313  0.015   75.   42.     -1.9  0.0800  0.72  0.34  0.50  327.0  15.0 279.8  2.0    0   0.00   60.  1011.     2 NAD-SFC NoSubs
 8 12 31 366 10   54.8  0.122  0.646  0.013  177.  103.     -3.0  0.0800  0.72  0.25  1.00  322.0  15.0 281.6  2.0    0   0.00   53.  1011.     2 NAD-SFC NoSubs
 8 12 31 366 11   83.9  0.084  0.856  0.012  270.   58.     -1.0  0.0800  0.72  0.22  0.50  312.0  15.0 283.2  2.0    0   0.00   48.  1011.     2 NAD-SFC NoSubs
 8 12 31 366 12   99.2  0.117  0.988  0.011  350.   96.     -1.5  0.0420  0.72  0.21  1.00  299.0  15.0 285.0  2.0    0   0.00   42.  1010.     2 NAD-SFC NoSubs
 8 12 31 366 13   99.6  0.172  1.059  0.010  429.  170.     -4.6  0.0800  0.72  0.21  1.50  314.0  15.0 286.0  2.0    0   0.00   40.  1009.     2 NAD-SFC NoSubs
 8 12 31 366 14   85.4  0.169  1.058  0.010  499.  166.     -5.1  0.0800  0.72  0.22  1.50  310.0  15.0 286.6  2.0    0   0.00   41.  1009.     2 NAD-SFC NoSubs
 8 12 31 366 15   57.1  0.205  0.950  0.010  541.  223.    -13.6  0.0800  0.72  0.25  2.10  318.0  15.0 286.8  2.0    0   0.00   42.  1008.     2 NAD-SFC NoSubs
 8 12 31 366 16   17.4  0.111  0.644  0.010  553.   93.     -7.1  0.0950  0.72  0.34  1.00  333.0  15.0 286.8  2.0    0   0.00   46.  1008.     2 NAD-SFC NoSubs
 8 12 31 366 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.60  0.00    0.0  15.0 286.0  2.0    0   0.00   50.  1008.     2 NAD-SFC NoSubs
 8 12 31 366 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 284.9  2.0    0   0.00   55.  1008.     2 NAD-SFC NoSubs
 8 12 31 366 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 283.8  2.0    0   0.00   61.  1008.     2 NAD-SFC NoSubs
 8 12 31 366 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 282.6  2.0    0   0.00   66.  1008.     2 NAD-SFC NoSubs
 8 12 31 366 21   -1.0  0.067 -9.000 -9.000 -999.   41.     26.6  0.0280  0.72  1.00  0.50  128.0  15.0 281.8  2.0    0   0.00   70.  1008.     2 NAD-SFC NoSubs
 8 12 31 366 22   -1.0  0.067 -9.000 -9.000 -999.   42.     26.9  0.0310  0.72  1.00  0.50  111.0  15.0 280.9  2.0    0   0.00   74.  1009.     2 NAD-SFC NoSubs
 8 12 31 366 23   -1.0  0.068 -9.000 -9.000 -999.   42.     26.9  0.0310  0.72  1.00  0.50  111.0  15.0 280.2  2.0    0   0.00   77.  1009.     2 NAD-SFC NoSubs
 8 12 31 366 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 279.6  2.0    0   0.00   80.  1009.     2 NAD-SFC NoSubs
 9  1  1   1  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 279.8  2.0    0   0.00   84.  1008.     2 NAD-SFC NoSubs
 9  1  1   1  2   -1.2  0.074 -9.000 -9.000 -999.   48.     29.4  0.0800  0.72  1.00  0.50  308.0  15.0 279.5  2.0    0   0.00   85.  1008.     2 NAD-SFC NoSubs
 9  1  1   1  3   -2.9  0.085 -9.000 -9.000 -999.   60.     19.6  0.0800  0.72  1.00  1.00  314.0  15.0 279.1  2.0    0   0.00   86.  1008.     2 NAD-SFC NoSubs
 9  1  1   1  4   -2.9  0.085 -9.000 -9.000 -999.   60.     19.6  0.0800  0.72  1.00  1.00  313.0  15.0 278.8  2.0    0   0.00   88.  1008.     2 NAD-SFC NoSubs
 9  1  1   1  5   -2.9  0.085 -9.000 -9.000 -999.   60.     19.6  0.0800  0.72  1.00  1.00  303.0  15.0 278.5  2.0    0   0.00   89.  1009.     2 NAD-SFC NoSubs
 9  1  1   1  6   -2.5  0.079 -9.000 -9.000 -999.   54.     18.1  0.0420  0.72  1.00  1.00  292.0  15.0 278.1  2.0    0   0.00   90.  1009.     2 NAD-SFC NoSubs
 9  1  1   1  7   -1.1  0.070 -9.000 -9.000 -999.   44.     27.8  0.0420  0.72  1.00  0.50  295.0  15.0 277.8  2.0    0   0.00   91.  1009.     2 NAD-SFC NoSubs
 9  1  1   1  8   -0.9  0.062 -9.000 -9.000 -999.   37.     25.1  0.0200  0.72  0.61  0.50  263.0  15.0 277.4  2.0    0   0.00   93.  1010.     2 NAD-SFC NoSubs
 9  1  1   1  9   14.3  0.067  0.287  0.014   59.   41.     -1.9  0.0800  0.72  0.34  0.50  307.0  15.0 278.0  2.0    0   0.00   91.  1010.     2 NAD-SFC NoSubs
 9  1  1   1 10   54.6 -9.000 -9.000 -9.000  157. -999. -99999.0  0.0471  0.72  0.25  0.00    0.0  15.0 280.0  2.0    0   0.00   85.  1010.     2 NAD-SFC NoSubs
 9  1  1   1 11   83.7 -9.000 -9.000 -9.000  276. -999. -99999.0  0.0471  0.72  0.22  0.00    0.0  15.0 282.2  2.0    0   0.00   75.  1009.     2 NAD-SFC NoSubs
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 9  1  1    1 12    99.0   0.086   1.023   0.012   388.    61.      -1.0   0.0800   0.72   0.21    0.50   326.0   15.0   284.1    2.0      0   0.00    65.  1008.      2 NAD-SFC NoSubs
 9  1  1    1 13    99.5   0.131   1.093   0.013   471.   114.      -2.1   0.0800   0.72   0.21    1.00   323.0   15.0   285.2    2.0      0   0.00    60.  1007.      2 NAD-SFC NoSubs
 9  1  1    1 14    85.4   0.129   1.082   0.012   532.   112.      -2.3   0.0800   0.72   0.22    1.00   329.0   15.0   286.1    2.0      0   0.00    57.  1006.      2 NAD-SFC NoSubs
 9  1  1    1 15    57.1   0.167   0.968   0.012   570.   163.      -7.3   0.0950   0.72   0.25    1.50   342.0   15.0   286.4    2.0      0   0.00    56.  1005.      2 NAD-SFC NoSubs
 9  1  1    1 16    17.4   0.149   0.655   0.012   580.   138.     -17.1   0.0960   0.72   0.34    1.50     4.0   15.0   286.2    2.0      0   0.00    59.  1005.      2 NAD-SFC NoSubs
 9  1  1    1 17    -5.1   0.107  -9.000  -9.000  -999.   85.      21.9   0.0960   0.72   0.60    1.50    11.0   15.0   285.2    2.0      0   0.00    63.  1005.      2 NAD-SFC NoSubs
 9  1  1    1 18    -1.3   0.075  -9.000  -9.000  -999.   49.      29.7   0.0950   0.72   1.00    0.50   347.0   15.0   284.2    2.0      0   0.00    68.  1005.      2 NAD-SFC NoSubs
 9  1  1    1 19  -999.0  -9.000  -9.000  -9.000  -999.  -999.  -99999.0   0.0471   0.72   1.00    0.00     0.0   15.0   283.0    2.0      0   0.00    74.  1005.      2 NAD-SFC NoSubs
 9  1  1    1 20    -1.0   0.066  -9.000  -9.000  -999.   41.      26.3   0.0240   0.72   1.00    0.50   167.0   15.0   282.2    2.0      0   0.00    79.  1005.      2 NAD-SFC NoSubs
 9  1  1    1 21    -1.0   0.067  -9.000  -9.000  -999.   42.      26.9   0.0310   0.72   1.00    0.50   100.0   15.0   281.4    2.0      0   0.00    83.  1005.      2 NAD-SFC NoSubs
 9  1  1    1 22    -1.0   0.067  -9.000  -9.000  -999.   42.      26.9   0.0310   0.72   1.00    0.50    92.0   15.0   280.6    2.0      0   0.00    86.  1005.      2 NAD-SFC NoSubs
 9  1  1    1 23    -1.0   0.068  -9.000  -9.000  -999.   42.      26.9   0.0310   0.72   1.00    0.50    90.0   15.0   280.0    2.0      0   0.00    89.  1005.      2 NAD-SFC NoSubs
 9  1  1    1 24    -1.0   0.068  -9.000  -9.000  -999.   42.      27.0   0.0310   0.72   1.00    0.50   100.0   15.0   279.5    2.0      0   0.00    92.  1005.      2 NAD-SFC NoSubs
 9  1  2    2  1    -1.0   0.068  -9.000  -9.000  -999.   42.      27.0   0.0310   0.72   1.00    0.50    96.0   15.0   279.1    2.0      0   0.00    93.  1004.      2 NAD-SFC NoSubs
 9  1  2    2  2    -1.0   0.068  -9.000  -9.000  -999.   42.      27.0   0.0310   0.72   1.00    0.50   102.0   15.0   278.8    2.0      0   0.00    93.  1004.      2 NAD-SFC NoSubs
 9  1  2    2  3  -999.0  -9.000  -9.000  -9.000  -999.  -999.  -99999.0   0.0471   0.72   1.00    0.00     0.0   15.0   278.8    2.0      0   0.00    93.  1004.      2 NAD-SFC NoSubs
 9  1  2    2  4  -999.0  -9.000  -9.000  -9.000  -999.  -999.  -99999.0   0.0471   0.72   1.00    0.00     0.0   15.0   278.8    2.0      0   0.00    92.  1004.      2 NAD-SFC NoSubs
 9  1  2    2  5    -1.0   0.068  -9.000  -9.000  -999.   42.      27.0   0.0310   0.72   1.00    0.50   106.0   15.0   278.6    2.0      0   0.00    91.  1003.      2 NAD-SFC NoSubs
 9  1  2    2  6    -1.0   0.068  -9.000  -9.000  -999.   42.      27.0   0.0310   0.72   1.00    0.50    97.0   15.0   278.5    2.0      0   0.00    91.  1003.      2 NAD-SFC NoSubs
 9  1  2    2  7    -2.3   0.077  -9.000  -9.000  -999.   51.      17.5   0.0310   0.72   1.00    1.00    99.0   15.0   278.2    2.0      0   0.00    92.  1003.      2 NAD-SFC NoSubs
 9  1  2    2  8    -2.1   0.073  -9.000  -9.000  -999.   48.      17.0   0.0310   0.72   0.61    1.00   106.0   15.0   278.2    2.0      0   0.00    91.  1003.      3 NAD-SFC NoSubs
 9  1  2    2  9    16.1   0.057   0.283   0.015    50.    32.      -1.0   0.0280   0.72   0.34    0.50   120.0   15.0   279.6    2.0      0   0.00    84.  1003.      3 NAD-SFC NoSubs
 9  1  2    2 10    56.5  -9.000  -9.000  -9.000   145.  -999.  -99999.0   0.0471   0.72   0.25    0.00     0.0   15.0   283.1    2.0      0   0.00    65.  1003.      3 NAD-SFC NoSubs
 9  1  2    2 11    85.3  -9.000  -9.000  -9.000   277.  -999.  -99999.0   0.0471   0.72   0.22    0.00     0.0   15.0   285.2    2.0      0   0.00    56.  1003.      4 NAD-SFC NoSubs
 9  1  2    2 12   100.3  -9.000  -9.000  -9.000   399.  -999.  -99999.0   0.0471   0.72   0.21    0.00     0.0   15.0   287.1    2.0      0   0.00    50.  1002.      4 NAD-SFC NoSubs
 9  1  2    2 13   101.0  -9.000  -9.000  -9.000   472.  -999.  -99999.0   0.0471   0.72   0.21    0.00     0.0   15.0   288.2    2.0      0   0.00    47.  1001.      4 NAD-SFC NoSubs
 9  1  2    2 14    85.2  -9.000  -9.000  -9.000   526.  -999.  -99999.0   0.0471   0.72   0.22    0.00     0.0   15.0   289.0    2.0      0   0.00    47.  1001.      5 NAD-SFC NoSubs
 9  1  2    2 15    58.9   0.124   0.975   0.011   561.   104.      -2.9   0.0800   0.72   0.25    1.00   320.0   15.0   289.2    2.0      0   0.00    49.  1000.      5 NAD-SFC NoSubs
 9  1  2    2 16    19.1   0.194   0.674   0.011   571.   205.     -34.0   0.0950   0.72   0.34    2.10   344.0   15.0   288.8    2.0      0   0.00    57.  1000.      7 NAD-SFC NoSubs
 9  1  2    2 17   -11.7   0.233  -9.000  -9.000  -999.   270.      96.7   0.0950   0.72   0.59    3.10   348.0   15.0   287.0    2.0      0   0.00    70.  1000.     10 NAD-SFC NoSubs
 9  1  2    2 18    -6.9   0.143  -9.000  -9.000  -999.   132.      37.7   0.0650   0.72   1.00    2.10    31.0   15.0   286.0    2.0      0   0.00    76.  1001.     10 NAD-SFC NoSubs
 9  1  2    2 19    -1.4   0.064  -9.000  -9.000  -999.    42.      16.9   0.0400   0.72   1.00    1.00    72.0   15.0   285.6    2.0      0   0.00    79.  1002.     10 NAD-SFC NoSubs
 9  1  2    2 20    -0.5   0.050  -9.000  -9.000  -999.    27.      21.2   0.0310   0.72   1.00    0.50    95.0   15.0   285.1    2.0      0   0.00    83.  1002.     10 NAD-SFC NoSubs
 9  1  2    2 21    -0.5   0.049  -9.000  -9.000  -999.    26.      20.4   0.0200   0.72   1.00    0.50   244.0   15.0   284.8    2.0      0   0.00    88.  1002.     10 NAD-SFC NoSubs
 9  1  2    2 22    -3.7   0.103  -9.000  -9.000  -999.    80.      27.0   0.0800   0.72   1.00    1.50   305.0   15.0   284.6    2.0      0   0.00    91.  1003.     10 NAD-SFC NoSubs
 9  1  2    2 23    -7.4   0.149  -9.000  -9.000  -999.   138.      39.9   0.0800   0.72   1.00    2.10   317.0   15.0   284.2    2.0      0   0.00    92.  1003.     10 NAD-SFC NoSubs
 9  1  2    2 24   -23.7   0.259  -9.000  -9.000  -999.   317.      65.9   0.0800   0.72   1.00    3.60   318.0   15.0   283.2    2.0      0   0.00    96.  1003.      6 NAD-SFC NoSubs
 9  1  3    3  1   -27.2   0.297  -9.000  -9.000  -999.   389.      86.2   0.0800   0.72   1.00    4.10   310.0   15.0   282.6    2.0      0   0.00    99.  1003.      6 NAD-SFC NoSubs
 9  1  3    3  2   -28.3   0.336  -9.000  -9.000  -999.   466.     119.5   0.0800   0.72   1.00    4.60   316.0   15.0   282.8    2.0      0   0.00    98.  1003.      7 NAD-SFC NoSubs
 9  1  3    3  3   -26.8   0.479  -9.000  -9.000  -999.   795.     366.7   0.0950   0.72   1.00    6.20   334.0   15.0   282.4    2.0      0   0.00    98.  1003.     10 NAD-SFC NoSubs
 9  1  3    3  4   -21.9   0.390  -9.000  -9.000  -999.   592.     243.4   0.0950   0.72   1.00    5.10   340.0   15.0   281.8    2.0      0   0.00    95.  1004.     10 NAD-SFC NoSubs
 9  1  3    3  5   -26.2   0.308  -9.000  -9.000  -999.   415.     100.4   0.0950   0.72   1.00    4.10   337.0   15.0   281.2    2.0      0   0.00    92.  1005.      7 NAD-SFC NoSubs
 9  1  3    3  6   -27.9   0.258  -9.000  -9.000  -999.   316.      55.5   0.0800   0.72   1.00    3.60   329.0   15.0   280.5    2.0      0   0.00    90.  1006.      3 NAD-SFC NoSubs
 9  1  3    3  7   -27.9   0.258  -9.000  -9.000  -999.   315.      55.4   0.0800   0.72   1.00    3.60   316.0   15.0   279.8    2.0      0   0.00    87.  1006.      3 NAD-SFC NoSubs
 9  1  3    3  8   -25.2   0.259  -9.000  -9.000  -999.   317.      62.0   0.0800   0.72   0.61    3.60   309.0   15.0   279.0    2.0      0   0.00    83.  1006.      3 NAD-SFC NoSubs
 9  1  3    3  9    14.4   0.400   0.446   0.005   220.   606.    -396.7   0.0800   0.72   0.34    5.10   328.0   15.0   279.4    2.0      0   0.00    62.  1007.      2 NAD-SFC NoSubs
 9  1  3    3 10    54.8   0.356   0.837   0.005   385.   512.     -74.2   0.0950   0.72   0.25    4.10   334.0   15.0   280.2    2.0      0   0.00    51.  1007.      2 NAD-SFC NoSubs
 9  1  3    3 11    83.9   0.329   1.054   0.005   502.   454.     -38.2   0.0950   0.72   0.22    3.60   332.0   15.0   281.0    2.0      0   0.00    47.  1007.      2 NAD-SFC NoSubs
 9  1  3    3 12    99.1   0.216   1.190   0.005   611.   248.      -9.2   0.0800   0.72   0.21    2.10   318.0   15.0   281.8    2.0      0   0.00    45.  1007.      2 NAD-SFC NoSubs
 9  1  3    3 13   100.5   0.252   1.271   0.005   733.   304.     -14.4   0.0800   0.72   0.21    2.60   311.0   15.0   282.5    2.0      0   0.00    43.  1006.      3 NAD-SFC NoSubs
 9  1  3    3 14    86.6   0.285   1.267   0.005   843.   365.     -23.9   0.0800   0.72   0.22    3.10   312.0   15.0   283.1    2.0      0   0.00    41.  1006.      3 NAD-SFC NoSubs
 9  1  3    3 15    58.8   0.277   1.142   0.005   910.   350.     -32.3   0.0800   0.72   0.25    3.10   317.0   15.0   283.4    2.0      0   0.00    41.  1006.      3 NAD-SFC NoSubs
 9  1  3    3 16    19.5   0.194   0.796   0.005   931.   208.     -33.7   0.0950   0.72   0.33    2.10   330.0   15.0   283.2    2.0      0   0.00    46.  1006.      3 NAD-SFC NoSubs
 9  1  3    3 17    -9.2   0.146  -9.000  -9.000  -999.   134.      30.1   0.0800   0.72   0.59    2.10   329.0   15.0   282.6    2.0      0   0.00    48.  1006.      3 NAD-SFC NoSubs
 9  1  3    3 18    -5.2   0.105  -9.000  -9.000  -999.    82.      20.0   0.0800   0.72   1.00    1.50   321.0   15.0   281.9    2.0      0   0.00    50.  1007.      3 NAD-SFC NoSubs
 9  1  3    3 19    -4.4   0.095  -9.000  -9.000  -999.    70.      17.4   0.0420   0.72   1.00    1.50   297.0   15.0   281.0    2.0      0   0.00    53.  1008.      3 NAD-SFC NoSubs
 9  1  3    3 20    -2.1   0.073  -9.000  -9.000  -999.    47.      16.5   0.0200   0.72   1.00    1.00   268.0   15.0   280.1    2.0      0   0.00    56.  1008.      3 NAD-SFC NoSubs
 9  1  3    3 21    -3.7   0.086  -9.000  -9.000  -999.    60.      15.2   0.0200   0.72   1.00    1.50   257.0   15.0   279.2    2.0      0   0.00    58.  1009.      3 NAD-SFC NoSubs
 9  1  3    3 22    -3.8   0.086  -9.000  -9.000  -999.    60.      15.2   0.0200   0.72   1.00    1.50   249.0   15.0   278.8    2.0      0   0.00    58.  1010.      3 NAD-SFC NoSubs
 9  1  3    3 23    -2.2   0.074  -9.000  -9.000  -999.    48.      16.7   0.0200   0.72   1.00    1.00   251.0   15.0   278.1    2.0      0   0.00    60.  1011.      2 NAD-SFC NoSubs
 9  1  3    3 24    -2.2   0.075  -9.000  -9.000  -999.    49.      16.8   0.0220   0.72   1.00    1.00   237.0   15.0   277.4    2.0      0   0.00    63.  1010.      2 NAD-SFC NoSubs
 9  1  4    4  1    -3.8   0.086  -9.000  -9.000  -999.    61.      15.2   0.0200   0.72   1.00    1.50   246.0   15.0   276.8    2.0      0   0.00    66.  1011.      2 NAD-SFC NoSubs
 9  1  4    4  2    -7.1   0.113  -9.000  -9.000  -999.    92.      18.6   0.0200   0.72   1.00    2.10   266.0   15.0   276.4    2.0      0   0.00    66.  1011.      2 NAD-SFC NoSubs
 9  1  4    4  3   -19.1   0.194  -9.000  -9.000  -999.   206.      34.8   0.0420   0.72   1.00    3.10   288.0   15.0   276.1    2.0      0   0.00    65.  1011.      2 NAD-SFC NoSubs
 9  1  4    4  4   -25.8   0.228  -9.000  -9.000  -999.   262.      41.5   0.0420   0.72   1.00    3.60   299.0   15.0   275.5    2.0      0   0.00    66.  1011.      2 NAD-SFC NoSubs
 9  1  4    4  5   -23.1   0.220  -9.000  -9.000  -999.   248.      41.6   0.0800   0.72   1.00    3.10   301.0   15.0   274.9    2.0      0   0.00    66.  1012.      2 NAD-SFC NoSubs
 9  1  4    4  6   -10.3   0.145  -9.000  -9.000  -999.   134.      26.5   0.0800   0.72   1.00    2.10   302.0   15.0   274.5    2.0      0   0.00    65.  1013.      2 NAD-SFC NoSubs
 9  1  4    4  7    -8.5   0.128  -9.000  -9.000  -999.   110.      22.2   0.0420   0.72   1.00    2.10   286.0   15.0   274.2    2.0      0   0.00    64.  1013.      2 NAD-SFC NoSubs
 9  1  4    4  8   -12.7   0.161  -9.000  -9.000  -999.   155.      29.8   0.0420   0.72   0.62    2.60   278.0   15.0   273.9    2.0      0   0.00    62.  1014.      2 NAD-SFC NoSubs
 9  1  4    4  9    13.9   0.254   0.293   0.006    65.   308.    -107.0   0.0800   0.72   0.34    3.10   306.0   15.0   275.4    2.0      0   0.00    50.  1014.      2 NAD-SFC NoSubs
 9  1  4    4 10    54.4   0.240   0.639   0.006   174.   282.     -23.0   0.0800   0.72   0.25    2.60   307.0   15.0   276.9    2.0      0   0.00    45.  1015.      2 NAD-SFC NoSubs
 9  1  4    4 11    83.7   0.191   0.900   0.006   316.   201.      -7.5   0.0420   0.72   0.22    2.10   297.0   15.0   278.6    2.0      0   0.00    42.  1015.      2 NAD-SFC NoSubs
 9  1  4    4 12    99.2   0.194   1.094   0.007   478.   205.      -6.6   0.0420   0.72   0.21    2.10   293.0   15.0   280.2    2.0      0   0.00    39.  1014.      2 NAD-SFC NoSubs
 9  1  4    4 13    99.9   0.216   1.209   0.007   639.   241.      -9.2   0.0800   0.72   0.21    2.10   315.0   15.0   281.2    2.0      0   0.00    38.  1013.      2 NAD-SFC NoSubs
 9  1  4    4 14    86.0   0.213   1.192   0.007   712.   236.     -10.2   0.0800   0.72   0.22    2.10   322.0   15.0   281.9    2.0      0   0.00    37.  1013.      2 NAD-SFC NoSubs
 9  1  4    4 15    57.9   0.212   1.065   0.007   753.   234.     -14.8   0.0950   0.72   0.25    2.10   331.0   15.0   282.2    2.0      0   0.00    38.  1013.      2 NAD-SFC NoSubs
 9  1  4    4 16    18.3   0.193   0.729   0.007   765.   204.     -35.7   0.0950   0.72   0.33    2.10   350.0   15.0   282.0    2.0      0   0.00    44.  1013.      2 NAD-SFC NoSubs
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 9  1  4    4 17     6.3 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.58  0.00    0.0  15.0 281.2  2.0    0  0.00   48. 1013.    2 NAD-SFC NoSubs
 9  1  4    4 18    -5.6  0.109 -9.000 -9.000 -999.  86.      20.7  0.0960  0.72  1.00  1.50    9.0  15.0 280.2  2.0    0  0.00   53. 1013.    2 NAD-SFC NoSubs
 9  1  4    4 19    -1.3  0.075 -9.000 -9.000 -999.  50.      29.8  0.0950  0.72  1.00  0.50  347.0  15.0 279.2  2.0    0  0.00   58. 1014.    2 NAD-SFC NoSubs
 9  1  4    4 20  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 278.2  2.0    0  0.00   64. 1014.    2 NAD-SFC NoSubs
 9  1  4    4 21    -1.0  0.066 -9.000 -9.000 -999.  41.      26.2  0.0220  0.72  1.00  0.50  227.0  15.0 277.2  2.0    0  0.00   69. 1015.    2 NAD-SFC NoSubs
 9  1  4    4 22    -1.0  0.065 -9.000 -9.000 -999.  40.      26.1  0.0200  0.72  1.00  0.50  249.0  15.0 276.4  2.0    0  0.00   72. 1015.    2 NAD-SFC NoSubs
 9  1  4    4 23    -2.5  0.080 -9.000 -9.000 -999.  54.      18.1  0.0420  0.72  1.00  1.00  282.0  15.0 275.9  2.0    0  0.00   74. 1016.    2 NAD-SFC NoSubs
 9  1  4    4 24    -4.5  0.095 -9.000 -9.000 -999.  71.      17.3  0.0420  0.72  1.00  1.50  288.0  15.0 275.5  2.0    0  0.00   73. 1016.    2 NAD-SFC NoSubs
 9  1  5    5  1   -16.1  0.182 -9.000 -9.000 -999. 186.      34.0  0.0800  0.72  1.00  2.60  305.0  15.0 275.4  2.0    0  0.00   68. 1016.    2 NAD-SFC NoSubs
 9  1  5    5  2   -16.1  0.182 -9.000 -9.000 -999. 186.      33.9  0.0800  0.72  1.00  2.60  314.0  15.0 275.0  2.0    0  0.00   65. 1016.    2 NAD-SFC NoSubs
 9  1  5    5  3   -16.1  0.182 -9.000 -9.000 -999. 186.      33.9  0.0800  0.72  1.00  2.60  307.0  15.0 274.6  2.0    0  0.00   63. 1016.    2 NAD-SFC NoSubs
 9  1  5    5  4   -10.3  0.144 -9.000 -9.000 -999. 132.      26.5  0.0800  0.72  1.00  2.10  310.0  15.0 274.2  2.0    0  0.00   62. 1016.    2 NAD-SFC NoSubs
 9  1  5    5  5    -8.6  0.128 -9.000 -9.000 -999. 110.      22.2  0.0420  0.72  1.00  2.10  292.0  15.0 274.0  2.0    0  0.00   61. 1016.    2 NAD-SFC NoSubs
 9  1  5    5  6    -4.6  0.095 -9.000 -9.000 -999.  71.      17.3  0.0420  0.72  1.00  1.50  285.0  15.0 273.9  2.0    0  0.00   60. 1016.    2 NAD-SFC NoSubs
 9  1  5    5  7    -3.9  0.087 -9.000 -9.000 -999.  61.      15.2  0.0200  0.72  1.00  1.50  252.0  15.0 273.8  2.0    0  0.00   59. 1016.    2 NAD-SFC NoSubs
 9  1  5    5  8    -2.1  0.072 -9.000 -9.000 -999.  47.      16.5  0.0220  0.72  0.62  1.00  235.0  15.0 273.8  2.0    0  0.00   59. 1016.    2 NAD-SFC NoSubs
 9  1  5    5  9    13.9  0.053  0.309  0.012  76.   30.      -1.0  0.0220  0.72  0.34  0.50  189.0  15.0 274.9  2.0    0  0.00   54. 1015.    2 NAD-SFC NoSubs
 9  1  5    5 10    54.5 -9.000 -9.000 -9.000 159. -999. -99999.0  0.0471  0.72  0.25  0.00    0.0  15.0 276.8  2.0    0  0.00   46. 1015.    2 NAD-SFC NoSubs
 9  1  5    5 11    84.0 -9.000 -9.000 -9.000 266. -999. -99999.0  0.0471  0.72  0.22  0.00    0.0  15.0 278.8  2.0    0  0.00   43. 1015.    2 NAD-SFC NoSubs
 9  1  5    5 12    99.5 -9.000 -9.000 -9.000 388. -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0 279.9  2.0    0  0.00   42. 1014.    2 NAD-SFC NoSubs
 9  1  5    5 13   100.3 -9.000 -9.000 -9.000 533. -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0 280.6  2.0    0  0.00   42. 1013.    2 NAD-SFC NoSubs
 9  1  5    5 14    86.5 -9.000 -9.000 -9.000 635. -999. -99999.0  0.0471  0.72  0.22  0.00    0.0  15.0 281.6  2.0    0  0.00   40. 1012.    2 NAD-SFC NoSubs
 9  1  5    5 15    59.8 -9.000 -9.000 -9.000 681. -999. -99999.0  0.0471  0.72  0.25  0.00    0.0  15.0 281.9  2.0    0  0.00   40. 1012.    3 NAD-SFC NoSubs
 9  1  5    5 16    21.6 -9.000 -9.000 -9.000 695. -999. -99999.0  0.0471  0.72  0.33  0.00    0.0  15.0 282.2  2.0    0  0.00   39. 1011.    4 NAD-SFC NoSubs
 9  1  5    5 17  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.58  0.00    0.0  15.0 281.9  2.0    0  0.00   43. 1010.    4 NAD-SFC NoSubs
 9  1  5    5 18  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 281.5  2.0    0  0.00   46. 1011.    4 NAD-SFC NoSubs
 9  1  5    5 19  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 281.2  2.0    0  0.00   49. 1011.    4 NAD-SFC NoSubs
 9  1  5    5 20    -1.0  0.067 -9.000 -9.000 -999.  42.      26.9  0.0400  0.72  1.00  0.50   77.0  15.0 281.1  2.0    0  0.00   50. 1011.    4 NAD-SFC NoSubs
 9  1  5    5 21    -1.0  0.066 -9.000 -9.000 -999.  40.      26.3  0.0310  0.72  1.00  0.50   92.0  15.0 280.5  2.0    0  0.00   53. 1012.    4 NAD-SFC NoSubs
 9  1  5    5 22    -2.2  0.074 -9.000 -9.000 -999.  49.      17.0  0.0280  0.72  1.00  1.00  120.0  15.0 279.8  2.0    0  0.00   56. 1012.    4 NAD-SFC NoSubs
 9  1  5    5 23    -2.2  0.074 -9.000 -9.000 -999.  49.      17.0  0.0280  0.72  1.00  1.00  128.0  15.0 278.9  2.0    0  0.00   59. 1012.    4 NAD-SFC NoSubs
 9  1  5    5 24    -1.0  0.066 -9.000 -9.000 -999.  41.      26.5  0.0280  0.72  1.00  0.50  132.0  15.0 278.2  2.0    0  0.00   62. 1012.    3 NAD-SFC NoSubs
 9  1  6    6  1  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 277.5  2.0    0  0.00   66. 1012.    3 NAD-SFC NoSubs
 9  1  6    6  2  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 276.9  2.0    0  0.00   69. 1012.    3 NAD-SFC NoSubs
 9  1  6    6  3  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 276.5  2.0    0  0.00   72. 1012.    3 NAD-SFC NoSubs
 9  1  6    6  4  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 276.1  2.0    0  0.00   74. 1012.    3 NAD-SFC NoSubs
 9  1  6    6  5  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 275.8  2.0    0  0.00   75. 1012.    3 NAD-SFC NoSubs
 9  1  6    6  6    -1.0  0.067 -9.000 -9.000 -999.  42.      26.8  0.0310  0.72  1.00  0.50  116.0  15.0 275.6  2.0    0  0.00   76. 1013.    3 NAD-SFC NoSubs
 9  1  6    6  7    -1.0  0.067 -9.000 -9.000 -999.  41.      26.6  0.0280  0.72  1.00  0.50  128.0  15.0 275.2  2.0    0  0.00   78. 1013.    3 NAD-SFC NoSubs
 9  1  6    6  8    -0.9  0.064 -9.000 -9.000 -999.  39.      25.6  0.0280  0.72  0.62  0.50  132.0  15.0 275.2  2.0    0  0.00   79. 1013.    3 NAD-SFC NoSubs
 9  1  6    6  9    15.9  0.056  0.297  0.008  59.   32.      -1.0  0.0280  0.72  0.34  0.50  148.0  15.0 277.1  2.0    0  0.00   70. 1014.    3 NAD-SFC NoSubs
 9  1  6    6 10    56.3 -9.000 -9.000 -9.000 200. -999. -99999.0  0.0471  0.72  0.25  0.00    0.0  15.0 279.4  2.0    0  0.00   60. 1014.    3 NAD-SFC NoSubs
 9  1  6    6 11    85.7 -9.000 -9.000 -9.000 417. -999. -99999.0  0.0471  0.72  0.22  0.00    0.0  15.0 281.2  2.0    0  0.00   53. 1014.    3 NAD-SFC NoSubs
 9  1  6    6 12   101.2 -9.000 -9.000 -9.000 549. -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0 282.4  2.0    0  0.00   52. 1013.    3 NAD-SFC NoSubs
 9  1  6    6 13   102.2 -9.000 -9.000 -9.000 657. -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0 283.5  2.0    0  0.00   54. 1013.    3 NAD-SFC NoSubs
 9  1  6    6 14    88.6 -9.000 -9.000 -9.000 697. -999. -99999.0  0.0471  0.72  0.22  0.00    0.0  15.0 284.2  2.0    0  0.00   55. 1012.    3 NAD-SFC NoSubs
 9  1  6    6 15    61.1 -9.000 -9.000 -9.000 724. -999. -99999.0  0.0471  0.72  0.25  0.00    0.0  15.0 284.8  2.0    0  0.00   55. 1012.    3 NAD-SFC NoSubs
 9  1  6    6 16    21.8 -9.000 -9.000 -9.000 733. -999. -99999.0  0.0471  0.72  0.33  0.00    0.0  15.0 284.8  2.0    0  0.00   58. 1011.    3 NAD-SFC NoSubs
 9  1  6    6 17    -2.4  0.080 -9.000 -9.000 -999.  55.      19.4  0.0960  0.72  0.57  1.00    2.0  15.0 284.1  2.0    0  0.00   63. 1011.    3 NAD-SFC NoSubs
 9  1  6    6 18   -16.6  0.190 -9.000 -9.000 -999. 198.      37.0  0.0960  0.72  1.00  2.60    5.0  15.0 282.8  2.0    0  0.00   71. 1012.    3 NAD-SFC NoSubs
 9  1  6    6 19   -23.9  0.229 -9.000 -9.000 -999. 262.      45.1  0.0950  0.72  1.00  3.10  358.0  15.0 281.4  2.0    0  0.00   80. 1012.    3 NAD-SFC NoSubs
 9  1  6    6 20  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 280.5  2.0    0  0.00   86. 1012.    3 NAD-SFC NoSubs
 9  1  6    6 21    -5.5  0.108 -9.000 -9.000 -999.  86.      20.9  0.0960  0.72  1.00  1.50   12.0  15.0 279.8  2.0    0  0.00   90. 1013.    3 NAD-SFC NoSubs
 9  1  6    6 22    -2.9  0.086 -9.000 -9.000 -999.  61.      19.9  0.0950  0.72  1.00  1.00  346.0  15.0 279.2  2.0    0  0.00   93. 1013.    3 NAD-SFC NoSubs
 9  1  6    6 23    -5.5  0.108 -9.000 -9.000 -999.  85.      20.8  0.0950  0.72  1.00  1.50  342.0  15.0 278.8  2.0    0  0.00   96. 1014.    3 NAD-SFC NoSubs
 9  1  6    6 24    -5.5  0.108 -9.000 -9.000 -999.  85.      20.8  0.0950  0.72  1.00  1.50  336.0  15.0 278.2  2.0    0  0.00   99. 1013.    3 NAD-SFC NoSubs
 9  1  7    7  1    -5.5  0.108 -9.000 -9.000 -999.  86.      20.8  0.0950  0.72  1.00  1.50  348.0  15.0 277.5  2.0    0  0.00  100. 1013.    3 NAD-SFC NoSubs
 9  1  7    7  2    -2.9  0.087 -9.000 -9.000 -999.  61.      19.9  0.0950  0.72  1.00  1.00  353.0  15.0 277.0  2.0    0  0.00  100. 1013.    3 NAD-SFC NoSubs
 9  1  7    7  3    -1.3  0.075 -9.000 -9.000 -999.  49.      29.6  0.0950  0.72  1.00  0.50  350.0  15.0 277.4  2.0    0  0.00  100. 1013.    3 NAD-SFC NoSubs
 9  1  7    7  4    -1.3  0.075 -9.000 -9.000 -999.  49.      29.6  0.0950  0.72  1.00  0.50  355.0  15.0 277.9  2.0    0  0.00  100. 1012.    3 NAD-SFC NoSubs
 9  1  7    7  5    -1.3  0.075 -9.000 -9.000 -999.  49.      29.6  0.0960  0.72  1.00  0.50    3.0  15.0 278.1  2.0    0  0.00  100. 1012.    3 NAD-SFC NoSubs
 9  1  7    7  6    -1.3  0.075 -9.000 -9.000 -999.  50.      29.9  0.0960  0.72  1.00  0.50   16.0  15.0 278.2  2.0    0  0.00  100. 1012.    2 NAD-SFC NoSubs
 9  1  7    7  7    -1.3  0.075 -9.000 -9.000 -999.  50.      29.9  0.0960  0.72  1.00  0.50   29.0  15.0 278.2  2.0    0  0.00  100. 1012.    2 NAD-SFC NoSubs
 9  1  7    7  8    -1.1  0.070 -9.000 -9.000 -999.  44.      27.9  0.0650  0.72  0.62  0.50   54.0  15.0 278.2  2.0    0  0.00  100. 1013.    2 NAD-SFC NoSubs
 9  1  7    7  9    14.5  0.064  0.354  0.018 110.   39.      -1.7  0.0650  0.72  0.34  0.50   40.0  15.0 278.4  2.0    0  0.00  100. 1013.    2 NAD-SFC NoSubs
 9  1  7    7 10    55.2  0.082  0.674  0.019 200.   57.      -1.0  0.0960  0.72  0.25  0.50   24.0  15.0 278.4  2.0    0  0.00  100. 1013.    2 NAD-SFC NoSubs
 9  1  7    7 11    84.6 -9.000 -9.000 -9.000 349. -999. -99999.0  0.0471  0.72  0.22  0.00    0.0  15.0 278.6  2.0    0  0.00  100. 1013.    2 NAD-SFC NoSubs
 9  1  7    7 12   100.2  0.136  1.049  0.023 416.  120.      -2.3  0.0960  0.72  0.21  1.00    2.0  15.0 278.9  2.0    0  0.00   99. 1012.    2 NAD-SFC NoSubs
 9  1  7    7 13   101.2  0.178  1.081  0.022 450.  180.      -5.0  0.0960  0.72  0.21  1.50   11.0  15.0 279.8  2.0    0  0.00   94. 1011.    2 NAD-SFC NoSubs
 9  1  7    7 14    87.7  0.221  1.052  0.021 478.  249.     -11.1  0.0960  0.72  0.22  2.10    6.0  15.0 281.1  2.0    0  0.00   87. 1011.    2 NAD-SFC NoSubs
 9  1  7    7 15    60.0  0.213  0.939  0.020 497.  236.     -14.5  0.0960  0.72  0.24  2.10    7.0  15.0 282.0  2.0    0  0.00   82. 1010.    2 NAD-SFC NoSubs
 9  1  7    7 16    20.4  0.195  0.658  0.020 503.  207.     -32.8  0.0960  0.72  0.33  2.10   15.0  15.0 282.1  2.0    0  0.00   82. 1010.    2 NAD-SFC NoSubs
 9  1  7    7 17    -9.7  0.151 -9.000 -9.000 -999.  142.     32.1  0.0960  0.72  0.56  2.10   24.0  15.0 281.2  2.0    0  0.00   87. 1009.    2 NAD-SFC NoSubs
 9  1  7    7 18    -5.0  0.102 -9.000 -9.000 -999.   78.     18.9  0.0650  0.72  1.00  1.50   44.0  15.0 280.2  2.0    0  0.00   92. 1009.    2 NAD-SFC NoSubs
 9  1  7    7 19    -2.5  0.079 -9.000 -9.000 -999.   53.     18.0  0.0400  0.72  1.00  1.00   81.0  15.0 279.4  2.0    0  0.00   98. 1009.    2 NAD-SFC NoSubs
 9  1  7    7 20    -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0400  0.72  1.00  0.50   72.0  15.0 278.2  2.0    0  0.00  100. 1009.    2 NAD-SFC NoSubs
 9  1  7    7 21    -2.7  0.084 -9.000 -9.000 -999.   58.     19.1  0.0650  0.72  1.00  1.00   38.0  15.0 277.0  2.0    0  0.00  100. 1009.    2 NAD-SFC NoSubs
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 9  1  7   7 22   -1.2  0.073 -9.000 -9.000 -999.   47.     28.9  0.0650  0.72  1.00  0.50   52.0  15.0 276.5  2.0   0  0.00  100. 1009.    2 NAD-SFC NoSubs
 9  1  7   7 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 276.2  2.0   0  0.00  100. 1009.    2 NAD-SFC NoSubs
 9  1  7   7 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 276.5  2.0   0  0.00  100. 1008.    2 NAD-SFC NoSubs
 9  1  8   8  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 277.0  2.0   0  0.00  100. 1008.    2 NAD-SFC NoSubs
 9  1  8   8  2   -1.3  0.076 -9.000 -9.000 -999.   50.     29.9  0.0960  0.72  1.00  0.50   11.0  15.0 277.5  2.0   0  0.00  100. 1008.    2 NAD-SFC NoSubs
 9  1  8   8  3   -3.0  0.087 -9.000 -9.000 -999.   62.     20.0  0.0960  0.72  1.00  1.00    8.0  15.0 277.8  2.0   0  0.00  100. 1007.    2 NAD-SFC NoSubs
 9  1  8   8  4   -1.3  0.076 -9.000 -9.000 -999.   50.     29.9  0.0960  0.72  1.00  0.50   25.0  15.0 277.6  2.0   0  0.00  100. 1007.    2 NAD-SFC NoSubs
 9  1  8   8  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 277.4  2.0   0  0.00  100. 1007.    2 NAD-SFC NoSubs
 9  1  8   8  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 277.2  2.0   0  0.00  100. 1007.    2 NAD-SFC NoSubs
 9  1  8   8  7   -1.3  0.076 -9.000 -9.000 -999.   50.     29.9  0.0960  0.72  1.00  0.50   15.0  15.0 277.4  2.0   0  0.00  100. 1008.    2 NAD-SFC NoSubs
 9  1  8   8  8   -1.2  0.072 -9.000 -9.000 -999.   47.     28.9  0.0960  0.72  0.61  0.50   11.0  15.0 277.5  2.0   0  0.00  100. 1008.    2 NAD-SFC NoSubs
 9  1  8   8  9   14.5 -9.000 -9.000 -9.000  101. -999. -99999.0  0.0471  0.72  0.34  0.00    0.0  15.0 277.4  2.0   0  0.00  100. 1008.    2 NAD-SFC NoSubs
 9  1  8   8 10   55.3 -9.000 -9.000 -9.000  127. -999. -99999.0  0.0471  0.72  0.25  0.00    0.0  15.0 277.8  2.0   0  0.00  100. 1008.    2 NAD-SFC NoSubs
 9  1  8   8 11   85.0 -9.000 -9.000 -9.000  160. -999. -99999.0  0.0471  0.72  0.22  0.00    0.0  15.0 278.5  2.0   0  0.00   99. 1008.    2 NAD-SFC NoSubs
 9  1  8   8 12  101.0 -9.000 -9.000 -9.000  192. -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0 280.6  2.0   0  0.00   89. 1007.    2 NAD-SFC NoSubs
 9  1  8   8 13  102.4  0.136  0.895  0.017  251.  121.     -2.2  0.0950  0.72  0.21  1.00  339.0  15.0 283.2  2.0   0  0.00   77. 1007.    2 NAD-SFC NoSubs
 9  1  8   8 14   89.2  0.175  0.913  0.015  307.  176.     -5.4  0.0950  0.72  0.21  1.50  344.0  15.0 284.9  2.0   0  0.00   71. 1006.    2 NAD-SFC NoSubs
 9  1  8   8 15   61.5  0.213  0.836  0.015  340.  236.    -14.1  0.0950  0.72  0.24  2.10  342.0  15.0 285.6  2.0   0  0.00   68. 1005.    2 NAD-SFC NoSubs
 9  1  8   8 16   21.8  0.232  0.598  0.014  350.  268.    -51.2  0.0950  0.72  0.32  2.60  349.0  15.0 285.2  2.0   0  0.00   72. 1005.    2 NAD-SFC NoSubs
 9  1  8   8 17  -19.9  0.231 -9.000 -9.000 -999.  266.     55.3  0.0960  0.72  0.56  3.10    8.0  15.0 283.6  2.0   0  0.00   79. 1005.    2 NAD-SFC NoSubs
 9  1  8   8 18  -24.1  0.229 -9.000 -9.000 -999.  263.     44.6  0.0960  0.72  1.00  3.10   20.0  15.0 282.1  2.0   0  0.00   84. 1006.    2 NAD-SFC NoSubs
 9  1  8   8 19   -2.7  0.083 -9.000 -9.000 -999.   79.     19.0  0.0650  0.72  1.00  1.00   53.0  15.0 281.5  2.0   0  0.00   87. 1007.    2 NAD-SFC NoSubs
 9  1  8   8 20   -1.0  0.066 -9.000 -9.000 -999.   41.     26.3  0.0240  0.72  1.00  0.50  162.0  15.0 281.2  2.0   0  0.00   88. 1007.    2 NAD-SFC NoSubs
 9  1  8   8 21   -2.2  0.074 -9.000 -9.000 -999.   48.     16.8  0.0240  0.72  1.00  1.00  173.0  15.0 280.9  2.0   0  0.00   91. 1008.    3 NAD-SFC NoSubs
 9  1  8   8 22   -3.9  0.088 -9.000 -9.000 -999.   62.     15.7  0.0240  0.72  1.00  1.50  178.0  15.0 280.8  2.0   0  0.00   93. 1008.    3 NAD-SFC NoSubs
 9  1  8   8 23   -7.0  0.115 -9.000 -9.000 -999.   94.     19.4  0.0220  0.72  1.00  2.10  180.0  15.0 280.8  2.0   0  0.00   94. 1008.    3 NAD-SFC NoSubs
 9  1  8   8 24  -11.2  0.146 -9.000 -9.000 -999.  134.     25.1  0.0240  0.72  1.00  2.60  164.0  15.0 280.6  2.0   0  0.00   97. 1008.    3 NAD-SFC NoSubs
 9  1  9   9  1  -16.3  0.177 -9.000 -9.000 -999.  178.     30.4  0.0240  0.72  1.00  3.10  155.0  15.0 280.2  2.0   0  0.00  100. 1008.    2 NAD-SFC NoSubs
 9  1  9   9  2   -7.6  0.120 -9.000 -9.000 -999.  100.     20.2  0.0280  0.72  1.00  2.10  136.0  15.0 279.2  2.0   0  0.00  100. 1009.    2 NAD-SFC NoSubs
 9  1  9   9  3   -2.2  0.075 -9.000 -9.000 -999.   50.     17.0  0.0240  0.72  1.00  1.00  156.0  15.0 278.4  2.0   0  0.00  100. 1009.    2 NAD-SFC NoSubs
 9  1  9   9  4   -2.5  0.079 -9.000 -9.000 -999.   54.     18.1  0.0420  0.72  1.00  1.00  284.0  15.0 278.2  2.0   0  0.00  100. 1010.    2 NAD-SFC NoSubs
 9  1  9   9  5   -8.4  0.128 -9.000 -9.000 -999.  110.     22.3  0.0420  0.72  1.00  2.10  296.0  15.0 278.6  2.0   0  0.00  100. 1010.    2 NAD-SFC NoSubs
 9  1  9   9  6  -15.9  0.182 -9.000 -9.000 -999.  186.     34.2  0.0800  0.72  1.00  2.60  309.0  15.0 278.4  2.0   0  0.00  100. 1011.    2 NAD-SFC NoSubs
 9  1  9   9  7  -10.2  0.145 -9.000 -9.000 -999.  132.     26.7  0.0800  0.72  1.00  2.10  323.0  15.0 278.4  2.0   0  0.00  100. 1012.    2 NAD-SFC NoSubs
 9  1  9   9  8   -2.6  0.083 -9.000 -9.000 -999.   58.     19.2  0.0800  0.72  0.61  1.00  314.0  15.0 278.4  2.0   0  0.00  100. 1013.    2 NAD-SFC NoSubs
 9  1  9   9  9   14.8  0.085  0.288  0.015   58.   59.     -3.7  0.0200  0.72  0.34  1.00  260.0  15.0 278.2  2.0   0  0.00  100. 1013.    2 NAD-SFC NoSubs
 9  1  9   9 10   55.7  0.097  0.605  0.012  143.   73.     -1.5  0.0200  0.72  0.25  1.00  244.0  15.0 278.5  2.0   0  0.00   98. 1014.    2 NAD-SFC NoSubs
 9  1  9   9 11   85.6 -9.000 -9.000 -9.000  267. -999. -99999.0  0.0471  0.72  0.22  0.00    0.0  15.0 279.8  2.0   0  0.00   90. 1014.    2 NAD-SFC NoSubs
 9  1  9   9 12  101.7 -9.000 -9.000 -9.000  394. -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0 281.9  2.0   0  0.00   78. 1013.    2 NAD-SFC NoSubs
 9  1  9   9 13  103.3 -9.000 -9.000 -9.000  476. -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0 284.1  2.0   0  0.00   67. 1013.    2 NAD-SFC NoSubs
 9  1  9   9 14   90.0  0.134  1.102  0.013  538.  118.     -2.4  0.0950  0.72  0.21  1.00  335.0  15.0 285.4  2.0   0  0.00   58. 1013.    2 NAD-SFC NoSubs
 9  1  9   9 15   62.4  0.213  0.999  0.013  577.  236.    -14.0  0.0950  0.72  0.24  2.10  350.0  15.0 286.0  2.0   0  0.00   55. 1013.    2 NAD-SFC NoSubs
 9  1  9   9 16   22.7  0.233  0.719  0.013  590.  270.    -50.1  0.0960  0.72  0.32  2.60   13.0  15.0 285.8  2.0   0  0.00   60. 1013.    2 NAD-SFC NoSubs
 9  1  9   9 17  -18.1  0.213 -9.000 -9.000 -999.  236.     48.4  0.0650  0.72  0.55  3.10   41.0  15.0 284.4  2.0   0  0.00   68. 1014.    2 NAD-SFC NoSubs
 9  1  9   9 18  -14.9  0.175 -9.000 -9.000 -999.  176.     32.5  0.0650  0.72  1.00  2.60   54.0  15.0 283.1  2.0   0  0.00   78. 1015.    2 NAD-SFC NoSubs
 9  1  9   9 19   -1.3  0.075 -9.000 -9.000 -999.   55.     29.8  0.0960  0.72  1.00  0.50   26.0  15.0 282.0  2.0   0  0.00   85. 1016.    2 NAD-SFC NoSubs
 9  1  9   9 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 280.8  2.0   0  0.00   93. 1017.    2 NAD-SFC NoSubs
 9  1  9   9 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 279.2  2.0   0  0.00   99. 1018.    2 NAD-SFC NoSubs
 9  1  9   9 22   -1.2  0.073 -9.000 -9.000 -999.   47.     28.9  0.0650  0.72  1.00  0.50   40.0  15.0 277.4  2.0   0  0.00  100. 1018.    2 NAD-SFC NoSubs
 9  1  9   9 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 276.2  2.0   0  0.00  100. 1019.    2 NAD-SFC NoSubs
 9  1  9   9 24   -1.2  0.073 -9.000 -9.000 -999.   47.     29.0  0.0650  0.72  1.00  0.50   35.0  15.0 275.9  2.0   0  0.00  100. 1019.    2 NAD-SFC NoSubs
 9  1 10  10  1   -1.2  0.073 -9.000 -9.000 -999.   47.     29.0  0.0650  0.72  1.00  0.50   51.0  15.0 275.9  2.0   0  0.00  100. 1020.    2 NAD-SFC NoSubs
 9  1 10  10  2   -2.8  0.084 -9.000 -9.000 -999.   58.     19.1  0.0650  0.72  1.00  1.00   53.0  15.0 275.8  2.0   0  0.00  100. 1020.    2 NAD-SFC NoSubs
 9  1 10  10  3   -2.8  0.084 -9.000 -9.000 -999.   58.     19.1  0.0650  0.72  1.00  1.00   30.0  15.0 275.8  2.0   0  0.00  100. 1020.    2 NAD-SFC NoSubs
 9  1 10  10  4   -5.7  0.109 -9.000 -9.000 -999.   86.     20.6  0.0960  0.72  1.00  1.50   15.0  15.0 276.1  2.0   0  0.00  100. 1020.    2 NAD-SFC NoSubs
 9  1 10  10  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 276.2  2.0   0  0.00  100. 1021.    2 NAD-SFC NoSubs
 9  1 10  10  6  -17.1  0.189 -9.000 -9.000 -999.  197.     36.0  0.0960  0.72  1.00  2.60   15.0  15.0 275.9  2.0   0  0.00  100. 1022.    2 NAD-SFC NoSubs
 9  1 10  10  7  -11.0  0.150 -9.000 -9.000 -999.  140.     28.0  0.0960  0.72  1.00  2.10   24.0  15.0 275.5  2.0   0  0.00  100. 1022.    2 NAD-SFC NoSubs
 9  1 10  10  8   -2.8  0.085 -9.000 -9.000 -999.   60.     19.8  0.0960  0.72  0.61  1.00   14.0  15.0 275.0  2.0   0  0.00  100. 1023.    2 NAD-SFC NoSubs
 9  1 10  10  9   14.9  0.067  0.272  0.021   49.   42.     -1.8  0.0800  0.72  0.34  0.50  326.0  15.0 277.4  2.0   0  0.00   82. 1023.    2 NAD-SFC NoSubs
 9  1 10  10 10   56.4  0.080  0.543  0.016  103.   54.     -1.0  0.0800  0.72  0.25  0.50  302.0  15.0 280.4  2.0   0  0.00   64. 1023.    2 NAD-SFC NoSubs
 9  1 10  10 11   86.5  0.084  0.744  0.013  173.   59.     -1.0  0.0800  0.72  0.22  0.50  321.0  15.0 282.5  2.0   0  0.00   55. 1023.    2 NAD-SFC NoSubs
 9  1 10  10 12  102.8  0.089  0.916  0.011  272.   64.     -1.0  0.0950  0.72  0.21  0.50  333.0  15.0 284.5  2.0   0  0.00   48. 1022.    2 NAD-SFC NoSubs
 9  1 10  10 13  104.4  0.136  1.024  0.010  375.  121.     -2.2  0.0950  0.72  0.20  1.00  335.0  15.0 286.0  2.0   0  0.00   42. 1021.    2 NAD-SFC NoSubs
 9  1 10  10 14   91.1  0.175  1.046  0.009  457.  176.     -5.4  0.0950  0.72  0.21  1.50  336.0  15.0 286.8  2.0   0  0.00   40. 1021.    2 NAD-SFC NoSubs
 9  1 10  10 15   63.5  0.168  0.962  0.009  510.  166.     -6.8  0.0950  0.72  0.24  1.50  346.0  15.0 287.0  2.0   0  0.00   40. 1020.    2 NAD-SFC NoSubs
 9  1 10  10 16   24.1  0.153  0.706  0.009  529.  144.    -13.6  0.0960  0.72  0.32  1.50    8.0  15.0 287.9  2.0   0  0.00   38. 1020.    2 NAD-SFC NoSubs
 9  1 10  10 17   -4.2  0.099 -9.000 -9.000 -999.   75.     21.1  0.0650  0.72  0.55  1.50   38.0  15.0 287.1  2.0   0  0.00   41. 1020.    2 NAD-SFC NoSubs
 9  1 10  10 18   -2.4  0.078 -9.000 -9.000 -999.   53.     17.9  0.0400  0.72  1.00  1.00   87.0  15.0 286.0  2.0   0  0.00   45. 1021.    2 NAD-SFC NoSubs
 9  1 10  10 19   -1.0  0.066 -9.000 -9.000 -999.   40.     26.2  0.0240  0.72  1.00  0.50  173.0  15.0 284.8  2.0   0  0.00   51. 1021.    2 NAD-SFC NoSubs
 9  1 10  10 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 283.6  2.0   0  0.00   56. 1021.    2 NAD-SFC NoSubs
 9  1 10  10 21   -1.2  0.072 -9.000 -9.000 -999.   46.     28.7  0.0650  0.72  1.00  0.50   35.0  15.0 282.8  2.0   0  0.00   61. 1021.    2 NAD-SFC NoSubs
 9  1 10  10 22   -5.0  0.102 -9.000 -9.000 -999.   78.     19.0  0.0650  0.72  1.00  1.50   32.0  15.0 282.0  2.0   0  0.00   64. 1021.    2 NAD-SFC NoSubs
 9  1 10  10 23   -5.0  0.102 -9.000 -9.000 -999.   78.     19.0  0.0650  0.72  1.00  1.50   38.0  15.0 281.6  2.0   0  0.00   65. 1021.    2 NAD-SFC NoSubs
 9  1 10  10 24   -2.7  0.083 -9.000 -9.000 -999.   57.     19.0  0.0650  0.72  1.00  1.00   31.0  15.0 281.1  2.0   0  0.00   66. 1021.    2 NAD-SFC NoSubs
 9  1 11  11  1   -1.3  0.075 -9.000 -9.000 -999.   49.     29.8  0.0950  0.72  1.00  0.50  350.0  15.0 280.6  2.0   0  0.00   68. 1021.    2 NAD-SFC NoSubs
 9  1 11  11  2   -2.9  0.085 -9.000 -9.000 -999.   60.     19.5  0.0800  0.72  1.00  1.00  314.0  15.0 280.2  2.0   0  0.00   69. 1021.    2 NAD-SFC NoSubs
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 9  1 11  11  3   -2.9  0.085 -9.000 -9.000 -999.   60.     19.5  0.0800  0.72  1.00  1.00  303.0  15.0  279.9  2.0   0   0.00   69.  1020.    2 NAD-SFC NoSubs
 9  1 11  11  4   -2.9  0.085 -9.000 -9.000 -999.   60.     19.6  0.0800  0.72  1.00  1.00  304.0  15.0  279.8  2.0   0   0.00   69.  1020.    2 NAD-SFC NoSubs
 9  1 11  11  5   -1.3  0.075 -9.000 -9.000 -999.   50.     29.8  0.0950  0.72  1.00  0.50  343.0  15.0  279.6  2.0   0   0.00   69.  1020.    2 NAD-SFC NoSubs
 9  1 11  11  6   -1.2  0.072 -9.000 -9.000 -999.   47.     28.8  0.0650  0.72  1.00  0.50   34.0  15.0  279.2  2.0   0   0.00   69.  1021.    2 NAD-SFC NoSubs
 9  1 11  11  7   -1.2  0.072 -9.000 -9.000 -999.   47.     28.9  0.0650  0.72  1.00  0.50   52.0  15.0  278.9  2.0   0   0.00   71.  1021.    2 NAD-SFC NoSubs
 9  1 11  11  8    7.2 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.61  0.00    0.0  15.0  278.8  2.0   0   0.00   72.  1021.    2 NAD-SFC NoSubs
 9  1 11  11  9   15.5 -9.000 -9.000 -9.000   60. -999. -99999.0  0.0471  0.72  0.34  0.00    0.0  15.0  280.0  2.0   0   0.00   70.  1020.    2 NAD-SFC NoSubs
 9  1 11  11 10   57.4  0.080  0.634  0.015  161.   54.     -1.0  0.0800  0.72  0.25  0.50  305.0  15.0  283.9  2.0   0   0.00   48.  1020.    2 NAD-SFC NoSubs
 9  1 11  11 11   87.8  0.085  0.886  0.015  288.   59.     -1.0  0.0800  0.72  0.22  0.50  307.0  15.0  285.9  2.0   0   0.00   42.  1020.    2 NAD-SFC NoSubs
 9  1 11  11 12  104.2  0.087  1.041  0.015  393.   61.     -1.0  0.0800  0.72  0.21  0.50  300.0  15.0  287.6  2.0   0   0.00   38.  1018.    2 NAD-SFC NoSubs
 9  1 11  11 13  105.8  0.087  1.100  0.014  456.   61.     -1.0  0.0800  0.72  0.20  0.50  315.0  15.0  288.8  2.0   0   0.00   36.  1017.    2 NAD-SFC NoSubs
 9  1 11  11 14   92.6  0.134  1.088  0.014  505.  118.     -2.4  0.0950  0.72  0.21  1.00  334.0  15.0  289.4  2.0   0   0.00   35.  1016.    2 NAD-SFC NoSubs
 9  1 11  11 15   65.1  0.129  0.988  0.013  536.  111.     -3.0  0.0950  0.72  0.24  1.00  347.0  15.0  289.6  2.0   0   0.00   36.  1015.    2 NAD-SFC NoSubs
 9  1 11  11 16   25.4  0.074  0.728  0.013  548.   49.     -1.5  0.0960  0.72  0.32  0.50   21.0  15.0  289.4  2.0   0   0.00   39.  1015.    2 NAD-SFC NoSubs
 9  1 11  11 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.54  0.00    0.0  15.0  288.5  2.0   0   0.00   44.  1014.    2 NAD-SFC NoSubs
 9  1 11  11 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  287.2  2.0   0   0.00   50.  1014.    2 NAD-SFC NoSubs
 9  1 11  11 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  285.9  2.0   0   0.00   56.  1014.    2 NAD-SFC NoSubs
 9  1 11  11 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  284.9  2.0   0   0.00   60.  1014.    2 NAD-SFC NoSubs
 9  1 11  11 21   -1.2  0.072 -9.000 -9.000 -999.   46.     28.7  0.0650  0.72  1.00  0.50   36.0  15.0  284.0  2.0   0   0.00   65.  1014.    2 NAD-SFC NoSubs
 9  1 11  11 22   -2.7  0.083 -9.000 -9.000 -999.   57.     19.0  0.0650  0.72  1.00  1.00   36.0  15.0  283.2  2.0   0   0.00   67.  1014.    2 NAD-SFC NoSubs
 9  1 11  11 23   -2.7  0.083 -9.000 -9.000 -999.   57.     19.0  0.0650  0.72  1.00  1.00   41.0  15.0  282.8  2.0   0   0.00   69.  1014.    2 NAD-SFC NoSubs
 9  1 11  11 24   -1.2  0.072 -9.000 -9.000 -999.   46.     28.7  0.0650  0.72  1.00  0.50   49.0  15.0  282.2  2.0   0   0.00   70.  1014.    2 NAD-SFC NoSubs
 9  1 12  12  1   -1.2  0.074 -9.000 -9.000 -999.   48.     29.3  0.0800  0.72  1.00  0.50  318.0  15.0  281.8  2.0   0   0.00   71.  1014.    2 NAD-SFC NoSubs
 9  1 12  12  2   -2.9  0.085 -9.000 -9.000 -999.   60.     19.5  0.0800  0.72  1.00  1.00  309.0  15.0  281.4  2.0   0   0.00   72.  1014.    2 NAD-SFC NoSubs
 9  1 12  12  3   -5.3  0.105 -9.000 -9.000 -999.   82.     19.9  0.0800  0.72  1.00  1.50  304.0  15.0  281.1  2.0   0   0.00   72.  1014.    2 NAD-SFC NoSubs
 9  1 12  12  4   -8.4  0.128 -9.000 -9.000 -999.  110.     22.4  0.0420  0.72  1.00  2.10  276.0  15.0  280.9  2.0   0   0.00   71.  1014.    2 NAD-SFC NoSubs
 9  1 12  12  5  -15.7  0.172 -9.000 -9.000 -999.  171.     29.1  0.0200  0.72  1.00  3.10  267.0  15.0  280.8  2.0   0   0.00   71.  1014.    2 NAD-SFC NoSubs
 9  1 12  12  6  -21.4  0.202 -9.000 -9.000 -999.  217.     34.6  0.0200  0.72  1.00  3.60  268.0  15.0  280.8  2.0   0   0.00   74.  1015.    2 NAD-SFC NoSubs
 9  1 12  12  7  -19.0  0.195 -9.000 -9.000 -999.  206.     35.1  0.0420  0.72  1.00  3.10  278.0  15.0  280.6  2.0   0   0.00   77.  1015.    2 NAD-SFC NoSubs
 9  1 12  12  8  -12.5  0.162 -9.000 -9.000 -999.  156.     30.5  0.0420  0.72  0.61  2.60  282.0  15.0  280.6  2.0   0   0.00   79.  1015.    2 NAD-SFC NoSubs
 9  1 12  12  9   16.2  0.186  0.286  0.012   52.  192.    -35.8  0.0800  0.72  0.34  2.10  303.0  15.0  282.1  2.0   0   0.00   74.  1015.    2 NAD-SFC NoSubs
 9  1 12  12 10   57.9  0.162  0.601  0.013  136.  156.     -6.6  0.0800  0.72  0.25  1.50  311.0  15.0  284.2  2.0   0   0.00   65.  1015.    2 NAD-SFC NoSubs
 9  1 12  12 11   88.4  0.130  0.842  0.012  244.  112.     -2.2  0.0800  0.72  0.22  1.00  318.0  15.0  286.2  2.0   0   0.00   59.  1014.    2 NAD-SFC NoSubs
 9  1 12  12 12  104.9  0.132  1.014  0.012  358.  115.     -2.0  0.0800  0.72  0.20  1.00  329.0  15.0  288.0  2.0   0   0.00   54.  1013.    2 NAD-SFC NoSubs
 9  1 12  12 13  106.8  0.173  1.098  0.012  449.  172.     -4.4  0.0800  0.72  0.20  1.50  328.0  15.0  289.5  2.0   0   0.00   49.  1013.    2 NAD-SFC NoSubs
 9  1 12  12 14   93.8  0.222  1.103  0.011  516.  251.    -10.5  0.0950  0.72  0.21  2.10  338.0  15.0  290.5  2.0   0   0.00   47.  1012.    2 NAD-SFC NoSubs
 9  1 12  12 15   66.4  0.251  1.009  0.011  559.  303.    -21.6  0.0950  0.72  0.24  2.60  351.0  15.0  290.9  2.0   0   0.00   46.  1012.    2 NAD-SFC NoSubs
 9  1 12  12 16   26.6  0.272  0.751  0.011  575.  340.    -67.9  0.0960  0.72  0.31  3.10    9.0  15.0  290.4  2.0   0   0.00   52.  1012.    2 NAD-SFC NoSubs
 9  1 12  12 17  -20.4  0.271 -9.000 -9.000 -999.  338.     87.9  0.0960  0.72  0.54  3.60   26.0  15.0  289.5  2.0   0   0.00   53.  1012.    2 NAD-SFC NoSubs
 9  1 12  12 18  -14.7  0.175 -9.000 -9.000 -999.  179.     32.8  0.0650  0.72  1.00  2.60   39.0  15.0  288.5  2.0   0   0.00   55.  1013.    2 NAD-SFC NoSubs
 9  1 12  12 19   -1.2  0.072 -9.000 -9.000 -999.   54.     28.5  0.0650  0.72  1.00  0.50   52.0  15.0  287.2  2.0   0   0.00   61.  1013.    2 NAD-SFC NoSubs
 9  1 12  12 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  286.2  2.0   0   0.00   66.  1013.    2 NAD-SFC NoSubs
 9  1 12  12 21   -2.4  0.078 -9.000 -9.000 -999.   53.     17.9  0.0400  0.72  1.00  1.00   66.0  15.0  285.6  2.0   0   0.00   68.  1013.    2 NAD-SFC NoSubs
 9  1 12  12 22   -8.3  0.127 -9.000 -9.000 -999.  109.     22.3  0.0400  0.72  1.00  2.10   87.0  15.0  285.0  2.0   0   0.00   69.  1014.    2 NAD-SFC NoSubs
 9  1 12  12 23  -12.0  0.152 -9.000 -9.000 -999.  143.     26.6  0.0310  0.72  1.00  2.60  105.0  15.0  284.5  2.0   0   0.00   69.  1014.    2 NAD-SFC NoSubs
 9  1 12  12 24   -7.8  0.122 -9.000 -9.000 -999.  102.     20.9  0.0310  0.72  1.00  2.10  100.0  15.0  284.2  2.0   0   0.00   69.  1014.    2 NAD-SFC NoSubs
 9  1 13  13  1   -4.4  0.094 -9.000 -9.000 -999.   69.     17.2  0.0400  0.72  1.00  1.50   79.0  15.0  283.8  2.0   0   0.00   69.  1014.    2 NAD-SFC NoSubs
 9  1 13  13  2   -9.5  0.139 -9.000 -9.000 -999.  124.     25.4  0.0650  0.72  1.00  2.10   48.0  15.0  283.4  2.0   0   0.00   71.  1014.    2 NAD-SFC NoSubs
 9  1 13  13  3  -14.9  0.175 -9.000 -9.000 -999.  175.     32.4  0.0650  0.72  1.00  2.60   43.0  15.0  282.9  2.0   0   0.00   74.  1015.    2 NAD-SFC NoSubs
 9  1 13  13  4  -21.5  0.211 -9.000 -9.000 -999.  233.     39.8  0.0650  0.72  1.00  3.10   39.0  15.0  282.4  2.0   0   0.00   79.  1015.    2 NAD-SFC NoSubs
 9  1 13  13  5  -14.9  0.175 -9.000 -9.000 -999.  175.     32.4  0.0650  0.72  1.00  2.60   34.0  15.0  282.0  2.0   0   0.00   83.  1015.    2 NAD-SFC NoSubs
 9  1 13  13  6   -9.6  0.139 -9.000 -9.000 -999.  124.     25.3  0.0650  0.72  1.00  2.10   30.0  15.0  281.8  2.0   0   0.00   85.  1015.    2 NAD-SFC NoSubs
 9  1 13  13  7   -3.0  0.087 -9.000 -9.000 -999.   62.     20.0  0.0960  0.72  1.00  1.00   17.0  15.0  281.4  2.0   0   0.00   86.  1016.    2 NAD-SFC NoSubs
 9  1 13  13  8   -1.2  0.072 -9.000 -9.000 -999.   46.     28.6  0.0960  0.72  0.61  0.50   23.0  15.0  281.2  2.0   0   0.00   85.  1016.    2 NAD-SFC NoSubs
 9  1 13  13  9   16.6  0.070  0.279  0.018   47.   45.     -1.9  0.0960  0.72  0.34  0.50   21.0  15.0  282.5  2.0   0   0.00   78.  1016.    2 NAD-SFC NoSubs
 9  1 13  13 10   58.7  0.083  0.582  0.013  121.   57.     -1.0  0.0950  0.72  0.25  0.50  333.0  15.0  285.9  2.0   0   0.00   62.  1015.    2 NAD-SFC NoSubs
 9  1 13  13 11   89.3 -9.000 -9.000 -9.000  246. -999. -99999.0  0.0471  0.72  0.22  0.00    0.0  15.0  287.8  2.0   0   0.00   56.  1015.    2 NAD-SFC NoSubs
 9  1 13  13 12  106.1  0.132  1.015  0.010  357.  116.     -2.0  0.0800  0.72  0.20  1.00  321.0  15.0  289.8  2.0   0   0.00   50.  1014.    2 NAD-SFC NoSubs
 9  1 13  13 13  108.0  0.179  1.104  0.010  450.  181.     -4.8  0.0950  0.72  0.20  1.50  330.0  15.0  291.0  2.0   0   0.00   45.  1013.    2 NAD-SFC NoSubs
 9  1 13  13 14   95.0  0.215  1.111  0.009  522.  240.     -9.5  0.0800  0.72  0.21  2.10  327.0  15.0  291.8  2.0   0   0.00   43.  1013.    2 NAD-SFC NoSubs
 9  1 13  13 15   67.6  0.215  1.021  0.009  568.  239.    -13.2  0.0950  0.72  0.24  2.10  341.0  15.0  291.9  2.0   0   0.00   43.  1012.    2 NAD-SFC NoSubs
 9  1 13  13 16   27.9 -9.000 -9.000 -9.000  585. -999. -99999.0  0.0471  0.72  0.31  0.00    0.0  15.0  291.8  2.0   0   0.00   47.  1012.    2 NAD-SFC NoSubs
 9  1 13  13 17   -1.9  0.073 -9.000 -9.000 -999.   47.     18.1  0.0650  0.72  0.53  1.00   37.0  15.0  290.8  2.0   0   0.00   51.  1012.    2 NAD-SFC NoSubs
 9  1 13  13 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  289.2  2.0   0   0.00   57.  1013.    2 NAD-SFC NoSubs
 9  1 13  13 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  287.9  2.0   0   0.00   64.  1013.    2 NAD-SFC NoSubs
 9  1 13  13 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  286.8  2.0   0   0.00   69.  1013.    2 NAD-SFC NoSubs
 9  1 13  13 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  285.8  2.0   0   0.00   74.  1013.    2 NAD-SFC NoSubs
 9  1 13  13 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  284.9  2.0   0   0.00   78.  1014.    2 NAD-SFC NoSubs
 9  1 13  13 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  284.2  2.0   0   0.00   81.  1014.    2 NAD-SFC NoSubs
 9  1 13  13 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  283.8  2.0   0   0.00   83.  1014.    2 NAD-SFC NoSubs
 9  1 14  14  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  283.2  2.0   0   0.00   84.  1014.    2 NAD-SFC NoSubs
 9  1 14  14  2   -1.3  0.075 -9.000 -9.000 -999.   49.     29.7  0.0950  0.72  1.00  0.50  343.0  15.0  282.9  2.0   0   0.00   84.  1014.    2 NAD-SFC NoSubs
 9  1 14  14  3   -1.2  0.074 -9.000 -9.000 -999.   48.     29.3  0.0800  0.72  1.00  0.50  328.0  15.0  282.5  2.0   0   0.00   84.  1014.    2 NAD-SFC NoSubs
 9  1 14  14  4   -1.2  0.074 -9.000 -9.000 -999.   48.     29.3  0.0800  0.72  1.00  0.50  320.0  15.0  282.2  2.0   0   0.00   83.  1014.    2 NAD-SFC NoSubs
 9  1 14  14  5   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0420  0.72  1.00  0.50  292.0  15.0  281.9  2.0   0   0.00   82.  1014.    2 NAD-SFC NoSubs
 9  1 14  14  6   -2.2  0.074 -9.000 -9.000 -999.   48.     16.6  0.0200  0.72  1.00  1.00  266.0  15.0  281.8  2.0   0   0.00   81.  1015.    2 NAD-SFC NoSubs
 9  1 14  14  7   -3.8  0.086 -9.000 -9.000 -999.   61.     15.2  0.0200  0.72  1.00  1.50  262.0  15.0  281.6  2.0   0   0.00   78.  1015.    2 NAD-SFC NoSubs
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 9  1 14  14  8   -3.5  0.084 -9.000 -9.000 -999.   59.    15.5  0.0200  0.72  0.61   1.50  254.0  15.0  281.8  2.0   0   0.00   75.  1015.    2 NAD-SFC NoSubs
 9  1 14  14  9   17.0  0.129  0.292  0.013   53.   112.   -11.5  0.0420  0.72  0.34   1.50  270.0  15.0  283.2  2.0   0   0.00   68.  1015.    2 NAD-SFC NoSubs
 9  1 14  14 10   59.0  0.145  0.611  0.013  139.   133.    -4.7  0.0420  0.72  0.25   1.50  290.0  15.0  285.2  2.0   0   0.00   58.  1014.    2 NAD-SFC NoSubs
 9  1 14  14 11   89.7  0.116  0.865  0.012  261.    95.    -1.6  0.0420  0.72  0.21   1.00  288.0  15.0  287.1  2.0   0   0.00   52.  1014.    2 NAD-SFC NoSubs
 9  1 14  14 12  106.5  0.077  1.048  0.012  391.    51.    -1.0  0.0420  0.72  0.20   0.50  287.0  15.0  289.0  2.0   0   0.00   47.  1013.    2 NAD-SFC NoSubs
 9  1 14  14 13  108.6  0.077  1.126  0.011  475.    51.    -1.0  0.0420  0.72  0.20   0.50  293.0  15.0  290.5  2.0   0   0.00   42.  1012.    2 NAD-SFC NoSubs
 9  1 14  14 14   95.6  0.131  1.126  0.011  539.   114.    -2.1  0.0800  0.72  0.21   1.00  321.0  15.0  291.2  2.0   0   0.00   40.  1011.    2 NAD-SFC NoSubs
 9  1 14  14 15   68.4  0.170  1.032  0.010  580.   168.    -6.4  0.0950  0.72  0.24   1.50  337.0  15.0  291.6  2.0   0   0.00   40.  1011.    2 NAD-SFC NoSubs
 9  1 14  14 16   28.6  0.156  0.780  0.010  596.   148.   -11.9  0.0960  0.72  0.31   1.50    6.0  15.0  291.2  2.0   0   0.00   44.  1010.    2 NAD-SFC NoSubs
 9  1 14  14 17   -3.8  0.099 -9.000 -9.000 -999.   75.    22.6  0.0650  0.72  0.52   1.50   42.0  15.0  290.2  2.0   0   0.00   47.  1010.    2 NAD-SFC NoSubs
 9  1 14  14 18   -2.4  0.078 -9.000 -9.000 -999.   52.    17.8  0.0400  0.72  1.00   1.00   66.0  15.0  289.0  2.0   0   0.00   52.  1011.    2 NAD-SFC NoSubs
 9  1 14  14 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  287.5  2.0   0   0.00   59.  1011.    2 NAD-SFC NoSubs
 9  1 14  14 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  286.2  2.0   0   0.00   66.  1011.    2 NAD-SFC NoSubs
 9  1 14  14 21   -1.3  0.075 -9.000 -9.000 -999.   49.    29.6  0.0960  0.72  1.00   0.50   16.0  15.0  285.4  2.0   0   0.00   70.  1011.    2 NAD-SFC NoSubs
 9  1 14  14 22   -5.5  0.109 -9.000 -9.000 -999.   86.    20.8  0.0960  0.72  1.00   1.50   27.0  15.0  284.6  2.0   0   0.00   74.  1011.    2 NAD-SFC NoSubs
 9  1 14  14 23   -9.5  0.139 -9.000 -9.000 -999.  124.    25.4  0.0650  0.72  1.00   2.10   37.0  15.0  283.9  2.0   0   0.00   76.  1011.    2 NAD-SFC NoSubs
 9  1 14  14 24   -5.0  0.101 -9.000 -9.000 -999.   78.    19.0  0.0650  0.72  1.00   1.50   30.0  15.0  283.4  2.0   0   0.00   78.  1011.    2 NAD-SFC NoSubs
 9  1 15  15  1   -3.0  0.087 -9.000 -9.000 -999.   61.    20.0  0.0960  0.72  1.00   1.00   10.0  15.0  282.9  2.0   0   0.00   78.  1011.    2 NAD-SFC NoSubs
 9  1 15  15  2   -1.3  0.075 -9.000 -9.000 -999.   49.    29.7  0.0950  0.72  1.00   0.50  342.0  15.0  282.4  2.0   0   0.00   79.  1011.    2 NAD-SFC NoSubs
 9  1 15  15  3   -2.8  0.085 -9.000 -9.000 -999.   60.    19.5  0.0800  0.72  1.00   1.00  328.0  15.0  282.0  2.0   0   0.00   80.  1011.    2 NAD-SFC NoSubs
 9  1 15  15  4   -5.6  0.108 -9.000 -9.000 -999.   86.    20.7  0.0950  0.72  1.00   1.50  330.0  15.0  281.6  2.0   0   0.00   81.  1012.    2 NAD-SFC NoSubs
 9  1 15  15  5   -5.3  0.105 -9.000 -9.000 -999.   82.    19.9  0.0800  0.72  1.00   1.50  325.0  15.0  281.2  2.0   0   0.00   81.  1012.    2 NAD-SFC NoSubs
 9  1 15  15  6   -2.9  0.085 -9.000 -9.000 -999.   60.    19.5  0.0800  0.72  1.00   1.00  320.0  15.0  281.1  2.0   0   0.00   80.  1012.    2 NAD-SFC NoSubs
 9  1 15  15  7   -1.2  0.074 -9.000 -9.000 -999.   48.    29.3  0.0800  0.72  1.00   0.50  309.0  15.0  281.0  2.0   0   0.00   78.  1013.    2 NAD-SFC NoSubs
 9  1 15  15  8   -1.1  0.070 -9.000 -9.000 -999.   45.    28.1  0.0800  0.72  0.60   0.50  302.0  15.0  280.9  2.0   0   0.00   77.  1013.    2 NAD-SFC NoSubs
 9  1 15  15  9   17.3  0.129  0.290  0.013   51.   112.   -11.4  0.0420  0.72  0.34   1.50  297.0  15.0  282.6  2.0   0   0.00   64.  1013.    2 NAD-SFC NoSubs
 9  1 15  15 10   59.4  0.145  0.604  0.012  134.   133.    -4.7  0.0420  0.72  0.25   1.50  297.0  15.0  284.8  2.0   0   0.00   53.  1013.    2 NAD-SFC NoSubs
 9  1 15  15 11   90.2  0.130  0.861  0.010  256.   113.    -2.2  0.0800  0.72  0.21   1.00  312.0  15.0  286.8  2.0   0   0.00   48.  1013.    2 NAD-SFC NoSubs
 9  1 15  15 12  107.1  0.137  1.047  0.010  388.   122.    -2.2  0.0950  0.72  0.20   1.00  330.0  15.0  288.5  2.0   0   0.00   44.  1012.    2 NAD-SFC NoSubs
 9  1 15  15 13  109.2  0.137  1.135  0.009  483.   122.    -2.1  0.0950  0.72  0.20   1.00  344.0  15.0  290.0  2.0   0   0.00   41.  1011.    2 NAD-SFC NoSubs
 9  1 15  15 14   96.4  0.176  1.140  0.008  555.   178.    -5.1  0.0950  0.72  0.21   1.50  360.0  15.0  290.9  2.0   0   0.00   39.  1010.    2 NAD-SFC NoSubs
 9  1 15  15 15   69.1  0.216  1.048  0.008  600.   240.   -13.1  0.0960  0.72  0.24   2.10   13.0  15.0  291.1  2.0   0   0.00   39.  1010.    2 NAD-SFC NoSubs
 9  1 15  15 16   29.6  0.201  0.799  0.008  619.   216.   -24.6  0.0960  0.72  0.31   2.10   26.0  15.0  291.5  2.0   0   0.00   40.  1010.    2 NAD-SFC NoSubs
 9  1 15  15 17  -11.8  0.178 -9.000 -9.000 -999.   181.    43.3  0.0650  0.72  0.52   2.60   53.0  15.0  290.6  2.0   0   0.00   43.  1010.    2 NAD-SFC NoSubs
 9  1 15  15 18   -4.9  0.101 -9.000 -9.000 -999.   79.    19.1  0.0650  0.72  1.00   1.50   57.0  15.0  289.4  2.0   0   0.00   46.  1010.    2 NAD-SFC NoSubs
 9  1 15  15 19   -1.0  0.066 -9.000 -9.000 -999.   41.    26.4  0.0280  0.72  1.00   0.50  131.0  15.0  288.2  2.0   0   0.00   52.  1011.    2 NAD-SFC NoSubs
 9  1 15  15 20   -2.2  0.074 -9.000 -9.000 -999.   49.    16.9  0.0240  0.72  1.00   1.00  162.0  15.0  287.1  2.0   0   0.00   55.  1011.    2 NAD-SFC NoSubs
 9  1 15  15 21   -7.5  0.120 -9.000 -9.000 -999.   99.    20.5  0.0280  0.72  1.00   2.10  134.0  15.0  286.0  2.0   0   0.00   55.  1011.    2 NAD-SFC NoSubs
 9  1 15  15 22  -16.9  0.181 -9.000 -9.000 -999.   185.    31.9  0.0280  0.72  1.00   3.10  133.0  15.0  285.2  2.0   0   0.00   56.  1011.    2 NAD-SFC NoSubs
 9  1 15  15 23  -23.7  0.217 -9.000 -9.000 -999.   242.    38.8  0.0310  0.72  1.00   3.60  119.0  15.0  284.6  2.0   0   0.00   57.  1012.    2 NAD-SFC NoSubs
 9  1 15  15 24  -23.1  0.213 -9.000 -9.000 -999.   236.    37.8  0.0280  0.72  1.00   3.60  120.0  15.0  284.2  2.0   0   0.00   57.  1012.    2 NAD-SFC NoSubs
 9  1 16  16  1  -17.4  0.185 -9.000 -9.000 -999.   190.    32.7  0.0310  0.72  1.00   3.10  106.0  15.0  284.2  2.0   0   0.00   57.  1012.    2 NAD-SFC NoSubs
 9  1 16  16  2  -12.9  0.159 -9.000 -9.000 -999.   153.    28.4  0.0400  0.72  1.00   2.60   89.0  15.0  283.9  2.0   0   0.00   59.  1013.    2 NAD-SFC NoSubs
 9  1 16  16  3   -8.3  0.127 -9.000 -9.000 -999.   109.    22.3  0.0400  0.72  1.00   2.10   77.0  15.0  283.2  2.0   0   0.00   64.  1013.    2 NAD-SFC NoSubs
 9  1 16  16  4   -4.4  0.094 -9.000 -9.000 -999.    70.    17.2  0.0400  0.72  1.00   1.50   79.0  15.0  282.8  2.0   0   0.00   69.  1013.    2 NAD-SFC NoSubs
 9  1 16  16  5   -4.4  0.094 -9.000 -9.000 -999.    70.    17.2  0.0400  0.72  1.00   1.50   84.0  15.0  282.2  2.0   0   0.00   72.  1014.    2 NAD-SFC NoSubs
 9  1 16  16  6   -4.4  0.094 -9.000 -9.000 -999.    70.    17.2  0.0400  0.72  1.00   1.50   72.0  15.0  281.6  2.0   0   0.00   75.  1014.    2 NAD-SFC NoSubs
 9  1 16  16  7   -4.4  0.094 -9.000 -9.000 -999.    70.    17.2  0.0400  0.72  1.00   1.50   62.0  15.0  281.0  2.0   0   0.00   77.  1015.    2 NAD-SFC NoSubs
 9  1 16  16  8   -4.6  0.100 -9.000 -9.000 -999.    76.    19.6  0.0650  0.72  0.60   1.50   58.0  15.0  280.8  2.0   0   0.00   78.  1015.    2 NAD-SFC NoSubs
 9  1 16  16  9   17.6  0.104  0.290  0.014   50.    81.    -5.8  0.0650  0.72  0.33   1.00   52.0  15.0  282.2  2.0   0   0.00   70.  1015.    2 NAD-SFC NoSubs
 9  1 16  16 10   60.1  0.124  0.598  0.011  129.   104.    -2.8  0.0800  0.72  0.25   1.00  327.0  15.0  285.8  2.0   0   0.00   53.  1015.    2 NAD-SFC NoSubs
 9  1 16  16 11   91.1  0.134  0.845  0.008  239.   118.    -2.4  0.0950  0.72  0.21   1.00  331.0  15.0  287.8  2.0   0   0.00   48.  1015.    2 NAD-SFC NoSubs
 9  1 16  16 12  108.2  0.225  1.019  0.007  354.   257.    -9.6  0.0960  0.72  0.20   2.10    2.0  15.0  289.8  2.0   0   0.00   42.  1014.    2 NAD-SFC NoSubs
 9  1 16  16 13  110.4 -9.000 -9.000 -9.000  490. -999. -99999.0  0.0471  0.72  0.20   0.00    0.0  15.0  291.1  2.0   0   0.00   40.  1013.    2 NAD-SFC NoSubs
 9  1 16  16 14   97.6  0.333  1.179  0.006  606.   462.   -34.2  0.0960  0.72  0.21   3.60   10.0  15.0  291.9  2.0   0   0.00   39.  1013.    2 NAD-SFC NoSubs
 9  1 16  16 15   70.3  0.362  1.097  0.005  678.   522.   -60.8  0.0960  0.72  0.23   4.10   11.0  15.0  291.9  2.0   0   0.00   41.  1012.    2 NAD-SFC NoSubs
 9  1 16  16 16   30.3  0.347  0.839  0.005  704.   491.  -124.4  0.0960  0.72  0.30   4.10   25.0  15.0  290.8  2.0   0   0.00   50.  1012.    2 NAD-SFC NoSubs
 9  1 16  16 17  -20.4  0.311 -9.000 -9.000 -999.   417.   133.1  0.0960  0.72  0.51   4.10   26.0  15.0  289.4  2.0   0   0.00   53.  1013.    2 NAD-SFC NoSubs
 9  1 16  16 18  -21.2  0.211 -9.000 -9.000 -999.   238.    40.3  0.0650  0.72  1.00   3.10   51.0  15.0  288.6  2.0   0   0.00   54.  1013.    2 NAD-SFC NoSubs
 9  1 16  16 19   -4.4  0.094 -9.000 -9.000 -999.    79.    17.2  0.0400  0.72  1.00   1.50   69.0  15.0  287.8  2.0   0   0.00   57.  1013.    2 NAD-SFC NoSubs
 9  1 16  16 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  286.8  2.0   0   0.00   62.  1014.    2 NAD-SFC NoSubs
 9  1 16  16 21   -1.2  0.073 -9.000 -9.000 -999.   48.    29.1  0.0800  0.72  1.00   0.50  326.0  15.0  285.8  2.0   0   0.00   65.  1014.    2 NAD-SFC NoSubs
 9  1 16  16 22   -2.9  0.087 -9.000 -9.000 -999.   61.    19.9  0.0950  0.72  1.00   1.00  346.0  15.0  284.9  2.0   0   0.00   68.  1015.    2 NAD-SFC NoSubs
 9  1 16  16 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  284.2  2.0   0   0.00   71.  1015.    2 NAD-SFC NoSubs
 9  1 16  16 24   -5.6  0.109 -9.000 -9.000 -999.   86.    20.8  0.0960  0.72  1.00   1.50   12.0  15.0  283.6  2.0   0   0.00   73.  1015.    2 NAD-SFC NoSubs
 9  1 17  17  1   -5.6  0.109 -9.000 -9.000 -999.   86.    20.8  0.0960  0.72  1.00   1.50    7.0  15.0  283.2  2.0   0   0.00   74.  1015.    2 NAD-SFC NoSubs
 9  1 17  17  2   -3.0  0.087 -9.000 -9.000 -999.   61.    20.0  0.0950  0.72  1.00   1.00  338.0  15.0  282.9  2.0   0   0.00   72.  1015.    2 NAD-SFC NoSubs
 9  1 17  17  3   -2.5  0.079 -9.000 -9.000 -999.   53.    18.0  0.0420  0.72  1.00   1.00  279.0  15.0  282.6  2.0   0   0.00   68.  1015.    2 NAD-SFC NoSubs
 9  1 17  17  4   -4.5  0.095 -9.000 -9.000 -999.   70.    17.3  0.0420  0.72  1.00   1.50  274.0  15.0  282.1  2.0   0   0.00   64.  1015.    2 NAD-SFC NoSubs
 9  1 17  17  5   -8.4  0.128 -9.000 -9.000 -999.   110.    22.5  0.0420  0.72  1.00   2.10  283.0  15.0  281.6  2.0   0   0.00   62.  1015.    2 NAD-SFC NoSubs
 9  1 17  17  6  -13.1  0.161 -9.000 -9.000 -999.   155.    28.6  0.0420  0.72  1.00   2.60  277.0  15.0  281.1  2.0   0   0.00   60.  1015.    2 NAD-SFC NoSubs
 9  1 17  17  7  -13.2  0.161 -9.000 -9.000 -999.   155.    28.6  0.0420  0.72  1.00   2.60  290.0  15.0  280.8  2.0   0   0.00   59.  1015.    2 NAD-SFC NoSubs
 9  1 17  17  8   -8.0  0.128 -9.000 -9.000 -999.   111.    24.1  0.0420  0.72  0.60   2.10  291.0  15.0  280.5  2.0   0   0.00   58.  1016.    2 NAD-SFC NoSubs
 9  1 17  17  9   17.9  0.222  0.340  0.011   79.   251.   -55.3  0.0800  0.72  0.33   2.60  314.0  15.0  282.1  2.0   0   0.00   52.  1015.    2 NAD-SFC NoSubs
 9  1 17  17 10   60.2  0.206  0.653  0.012  167.   225.   -13.2  0.0800  0.72  0.24   2.10  312.0  15.0  283.8  2.0   0   0.00   48.  1015.    2 NAD-SFC NoSubs
 9  1 17  17 11   91.2  0.152  0.871  0.011  262.   142.    -3.5  0.0420  0.72  0.21   1.50  296.0  15.0  285.8  2.0   0   0.00   45.  1015.    2 NAD-SFC NoSubs
 9  1 17  17 12  108.2  0.133  1.017  0.010  351.   116.    -2.0  0.0800  0.72  0.20   1.00  315.0  15.0  287.5  2.0   0   0.00   43.  1014.    2 NAD-SFC NoSubs
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 9  1 17  17 13  110.5  0.173  1.107  0.009   443.   173.     -4.3  0.0800  0.72  0.20  1.50  306.0  15.0  289.1  2.0   0  0.00   38.  1013.   2 NAD-SFC NoSubs
 9  1 17  17 14   97.8  0.171  1.125  0.008   527.   170.     -4.6  0.0800  0.72  0.21  1.50  318.0  15.0  289.9  2.0   0  0.00   37.  1013.   2 NAD-SFC NoSubs
 9  1 17  17 15   70.7  0.209  1.043  0.007   579.   229.    -11.7  0.0800  0.72  0.23  2.10  324.0  15.0  290.2  2.0   0  0.00   37.  1013.   2 NAD-SFC NoSubs
 9  1 17  17 16   31.0  0.157  0.802  0.007   601.   150.    -11.2  0.0950  0.72  0.30  1.50  342.0  15.0  290.1  2.0   0  0.00   42.  1013.   2 NAD-SFC NoSubs
 9  1 17  17 17   -0.7  0.057 -9.000 -9.000  -999.    40.     23.7  0.0650  0.72  0.50  0.50   58.0  15.0  289.2  2.0   0  0.00   46.  1013.   2 NAD-SFC NoSubs
 9  1 17  17 18   -1.0  0.066 -9.000 -9.000  -999.    41.     26.4  0.0280  0.72  1.00  0.50  149.0  15.0  287.9  2.0   0  0.00   51.  1013.   2 NAD-SFC NoSubs
 9  1 17  17 19 -999.0 -9.000 -9.000 -9.000  -999.  -999.  -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  286.5  2.0   0  0.00   58.  1013.   2 NAD-SFC NoSubs
 9  1 17  17 20   -1.1  0.069 -9.000 -9.000  -999.    43.     27.5  0.0420  0.72  1.00  0.50  287.0  15.0  285.4  2.0   0  0.00   63.  1014.   2 NAD-SFC NoSubs
 9  1 17  17 21   -1.2  0.073 -9.000 -9.000  -999.    48.     29.2  0.0800  0.72  1.00  0.50  318.0  15.0  284.4  2.0   0  0.00   67.  1014.   2 NAD-SFC NoSubs
 9  1 17  17 22   -3.0  0.087 -9.000 -9.000  -999.    61.     20.0  0.0960  0.72  1.00  1.00    8.0  15.0  283.6  2.0   0  0.00   70.  1015.   2 NAD-SFC NoSubs
 9  1 17  17 23   -2.7  0.083 -9.000 -9.000  -999.    57.     19.0  0.0650  0.72  1.00  1.00   31.0  15.0  283.0  2.0   0  0.00   73.  1015.   2 NAD-SFC NoSubs
 9  1 17  17 24   -3.0  0.087 -9.000 -9.000  -999.    62.     20.0  0.0960  0.72  1.00  1.00   29.0  15.0  282.5  2.0   0  0.00   74.  1015.   2 NAD-SFC NoSubs
 9  1 18  18  1   -3.0  0.087 -9.000 -9.000  -999.    62.     20.0  0.0960  0.72  1.00  1.00   20.0  15.0  282.2  2.0   0  0.00   75.  1016.   2 NAD-SFC NoSubs
 9  1 18  18  2   -3.0  0.087 -9.000 -9.000  -999.    62.     20.0  0.0960  0.72  1.00  1.00    9.0  15.0  281.9  2.0   0  0.00   76.  1016.   2 NAD-SFC NoSubs
 9  1 18  18  3   -3.0  0.087 -9.000 -9.000  -999.    62.     20.0  0.0950  0.72  1.00  1.00  349.0  15.0  281.5  2.0   0  0.00   77.  1016.   2 NAD-SFC NoSubs
 9  1 18  18  4   -2.9  0.085 -9.000 -9.000  -999.    60.     19.5  0.0800  0.72  1.00  1.00  323.0  15.0  281.2  2.0   0  0.00   76.  1016.   2 NAD-SFC NoSubs
 9  1 18  18  5   -2.9  0.085 -9.000 -9.000  -999.    60.     19.5  0.0800  0.72  1.00  1.00  315.0  15.0  280.8  2.0   0  0.00   75.  1017.   2 NAD-SFC NoSubs
 9  1 18  18  6   -2.9  0.085 -9.000 -9.000  -999.    60.     19.5  0.0800  0.72  1.00  1.00  322.0  15.0  280.4  2.0   0  0.00   73.  1017.   2 NAD-SFC NoSubs
 9  1 18  18  7   -2.9  0.085 -9.000 -9.000  -999.    60.     19.5  0.0800  0.72  1.00  1.00  329.0  15.0  280.0  2.0   0  0.00   72.  1017.   2 NAD-SFC NoSubs
 9  1 18  18  8   -1.1  0.071 -9.000 -9.000  -999.    45.     28.5  0.0950  0.72  0.60  0.50  338.0  15.0  279.8  2.0   0  0.00   72.  1017.   2 NAD-SFC NoSubs
 9  1 18  18  9   18.3  0.108  0.306  0.013    57.    86.     -6.3  0.0800  0.72  0.33  1.00  313.0  15.0  281.6  2.0   0  0.00   61.  1017.   2 NAD-SFC NoSubs
 9  1 18  18 10   60.9  0.206  0.612  0.008   136.   225.    -13.1  0.0800  0.72  0.24  2.10  312.0  15.0  284.2  2.0   0  0.00   51.  1017.   2 NAD-SFC NoSubs
 9  1 18  18 11   92.0  0.215  0.851  0.008   243.   238.     -9.7  0.0800  0.72  0.21  2.10  317.0  15.0  286.1  2.0   0  0.00   48.  1017.   2 NAD-SFC NoSubs
 9  1 18  18 12  109.1  0.225  1.053  0.007   388.   256.     -9.5  0.0950  0.72  0.20  2.10  337.0  15.0  288.0  2.0   0  0.00   44.  1016.   2 NAD-SFC NoSubs
 9  1 18  18 13  111.4  0.262  1.176  0.007   529.   323.    -14.7  0.0950  0.72  0.20  2.60  351.0  15.0  289.2  2.0   0  0.00   42.  1015.   2 NAD-SFC NoSubs
 9  1 18  18 14   98.8  0.260  1.198  0.007   630.   318.    -16.0  0.0950  0.72  0.21  2.60  355.0  15.0  290.2  2.0   0  0.00   40.  1015.   2 NAD-SFC NoSubs
 9  1 18  18 15   71.8  0.253  1.111  0.006   692.   306.    -20.5  0.0960  0.72  0.23  2.60    1.0  15.0  290.6  2.0   0  0.00   40.  1014.   2 NAD-SFC NoSubs
 9  1 18  18 16   32.0  0.238  0.859  0.006   716.   279.    -38.2  0.0960  0.72  0.30  2.60   15.0  15.0  290.2  2.0   0  0.00   46.  1014.   2 NAD-SFC NoSubs
 9  1 18  18 17  -14.0  0.233 -9.000 -9.000  -999.   269.     81.5  0.0960  0.72  0.50  3.10   19.0  15.0  289.2  2.0   0  0.00   48.  1014.   2 NAD-SFC NoSubs
 9  1 18  18 18   -9.4  0.139 -9.000 -9.000  -999.   128.     25.6  0.0650  0.72  1.00  2.10   39.0  15.0  288.1  2.0   0  0.00   52.  1014.   2 NAD-SFC NoSubs
 9  1 18  18 19   -2.3  0.076 -9.000 -9.000  -999.    52.     17.3  0.0310  0.72  1.00  1.00   95.0  15.0  287.0  2.0   0  0.00   57.  1014.   2 NAD-SFC NoSubs
 9  1 18  18 20   -2.3  0.075 -9.000 -9.000  -999.    50.     17.2  0.0280  0.72  1.00  1.00  130.0  15.0  286.2  2.0   0  0.00   58.  1014.   2 NAD-SFC NoSubs
 9  1 18  18 21   -1.0  0.067 -9.000 -9.000  -999.    42.     26.8  0.0310  0.72  1.00  0.50  119.0  15.0  285.4  2.0   0  0.00   57.  1014.   2 NAD-SFC NoSubs
 9  1 18  18 22   -2.4  0.078 -9.000 -9.000  -999.    53.     17.9  0.0400  0.72  1.00  1.00   71.0  15.0  284.5  2.0   0  0.00   59.  1015.   2 NAD-SFC NoSubs
 9  1 18  18 23   -5.0  0.101 -9.000 -9.000  -999.    78.     19.0  0.0650  0.72  1.00  1.50   53.0  15.0  283.6  2.0   0  0.00   63.  1015.   2 NAD-SFC NoSubs
 9  1 18  18 24   -5.0  0.102 -9.000 -9.000  -999.    78.     19.0  0.0650  0.72  1.00  1.50   36.0  15.0  283.0  2.0   0  0.00   68.  1015.   2 NAD-SFC NoSubs
 9  1 19  19  1   -5.6  0.109 -9.000 -9.000  -999.    86.     20.8  0.0960  0.72  1.00  1.50   27.0  15.0  282.2  2.0   0  0.00   72.  1015.   2 NAD-SFC NoSubs
 9  1 19  19  2   -5.6  0.109 -9.000 -9.000  -999.    86.     20.8  0.0960  0.72  1.00  1.50   27.0  15.0  281.8  2.0   0  0.00   75.  1015.   2 NAD-SFC NoSubs
 9  1 19  19  3   -5.0  0.102 -9.000 -9.000  -999.    78.     19.0  0.0650  0.72  1.00  1.50   35.0  15.0  281.2  2.0   0  0.00   77.  1015.   2 NAD-SFC NoSubs
 9  1 19  19  4   -5.6  0.109 -9.000 -9.000  -999.    86.     20.8  0.0960  0.72  1.00  1.50   16.0  15.0  281.0  2.0   0  0.00   76.  1015.   2 NAD-SFC NoSubs
 9  1 19  19  5   -3.0  0.087 -9.000 -9.000  -999.    62.     20.0  0.0950  0.72  1.00  1.00  353.0  15.0  280.9  2.0   0  0.00   72.  1015.   2 NAD-SFC NoSubs
 9  1 19  19  6   -2.9  0.085 -9.000 -9.000  -999.    60.     19.5  0.0800  0.72  1.00  1.00  318.0  15.0  280.8  2.0   0  0.00   67.  1015.   2 NAD-SFC NoSubs
 9  1 19  19  7   -2.9  0.085 -9.000 -9.000  -999.    60.     19.5  0.0800  0.72  1.00  1.00  302.0  15.0  280.5  2.0   0  0.00   63.  1015.   2 NAD-SFC NoSubs
 9  1 19  19  8   -1.0  0.065 -9.000 -9.000  -999.    40.     26.3  0.0420  0.72  0.59  0.50  272.0  15.0  280.2  2.0   0  0.00   62.  1015.   2 NAD-SFC NoSubs
 9  1 19  19  9   18.9  0.169  0.298  0.010    51.   166.    -23.1  0.0420  0.72  0.33  2.10  297.0  15.0  282.2  2.0   0  0.00   51.  1015.   2 NAD-SFC NoSubs
 9  1 19  19 10   61.5  0.242  0.598  0.008   126.   286.    -20.9  0.0800  0.72  0.24  2.60  301.0  15.0  284.4  2.0   0  0.00   45.  1015.   2 NAD-SFC NoSubs
 9  1 19  19 11   92.7  0.215  0.846  0.008   236.   239.     -9.7  0.0800  0.72  0.21  2.10  314.0  15.0  286.2  2.0   0  0.00   44.  1014.   2 NAD-SFC NoSubs
 9  1 19  19 12  110.0  0.218  1.042  0.007   372.   245.     -8.6  0.0800  0.72  0.20  2.10  319.0  15.0  288.2  2.0   0  0.00   41.  1013.   2 NAD-SFC NoSubs
 9  1 19  19 13  112.3  0.226  1.167  0.007   512.   257.     -9.2  0.0950  0.72  0.20  2.10  340.0  15.0  289.5  2.0   0  0.00   39.  1013.   2 NAD-SFC NoSubs
 9  1 19  19 14   99.9  0.223  1.195  0.007   617.   253.    -10.0  0.0950  0.72  0.21  2.10  340.0  15.0  290.5  2.0   0  0.00   38.  1012.   2 NAD-SFC NoSubs
 9  1 19  19 15   72.9  0.253  1.113  0.006   682.   306.    -20.1  0.0950  0.72  0.23  2.60  351.0  15.0  290.9  2.0   0  0.00   37.  1012.   2 NAD-SFC NoSubs
 9  1 19  19 16   33.1  0.239  0.866  0.006   709.   280.    -37.1  0.0960  0.72  0.30  2.60    3.0  15.0  290.6  2.0   0  0.00   44.  1012.   2 NAD-SFC NoSubs
 9  1 19  19 17  -10.9  0.194 -9.000 -9.000  -999.   205.     60.1  0.0960  0.72  0.49  2.60   24.0  15.0  289.8  2.0   0  0.00   46.  1012.   2 NAD-SFC NoSubs
 9  1 19  19 18   -4.9  0.101 -9.000 -9.000  -999.    81.     19.1  0.0650  0.72  1.00  1.50   38.0  15.0  288.6  2.0   0  0.00   51.  1012.   2 NAD-SFC NoSubs
 9  1 19  19 19   -1.1  0.068 -9.000 -9.000  -999.    43.     27.3  0.0400  0.72  1.00  0.50   70.0  15.0  287.2  2.0   0  0.00   56.  1012.   2 NAD-SFC NoSubs
 9  1 19  19 20 -999.0 -9.000 -9.000 -9.000  -999.  -999.  -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  286.2  2.0   0  0.00   61.  1013.   2 NAD-SFC NoSubs
 9  1 19  19 21 -999.0 -9.000 -9.000 -9.000  -999.  -999.  -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  285.2  2.0   0  0.00   64.  1013.   2 NAD-SFC NoSubs
 9  1 19  19 22 -999.0 -9.000 -9.000 -9.000  -999.  -999.  -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  284.4  2.0   0  0.00   68.  1013.   2 NAD-SFC NoSubs
 9  1 19  19 23 -999.0 -9.000 -9.000 -9.000  -999.  -999.  -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  283.6  2.0   0  0.00   70.  1013.   2 NAD-SFC NoSubs
 9  1 19  19 24 -999.0 -9.000 -9.000 -9.000  -999.  -999.  -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  283.0  2.0   0  0.00   73.  1013.   2 NAD-SFC NoSubs
 9  1 20  20  1   -1.3  0.075 -9.000 -9.000  -999.    49.     29.7  0.0960  0.72  1.00  0.50   19.0  15.0  282.5  2.0   0  0.00   73.  1013.   2 NAD-SFC NoSubs
 9  1 20  20  2   -1.3  0.075 -9.000 -9.000  -999.    49.     29.8  0.0960  0.72  1.00  0.50    3.0  15.0  282.1  2.0   0  0.00   74.  1013.   2 NAD-SFC NoSubs
 9  1 20  20  3   -1.2  0.074 -9.000 -9.000  -999.    48.     29.3  0.0800  0.72  1.00  0.50  317.0  15.0  281.8  2.0   0  0.00   74.  1013.   2 NAD-SFC NoSubs
 9  1 20  20  4   -2.9  0.085 -9.000 -9.000  -999.    60.     19.5  0.0800  0.72  1.00  1.00  304.0  15.0  281.4  2.0   0  0.00   73.  1013.   2 NAD-SFC NoSubs
 9  1 20  20  5   -2.9  0.085 -9.000 -9.000  -999.    60.     19.5  0.0800  0.72  1.00  1.00  307.0  15.0  281.2  2.0   0  0.00   71.  1013.   2 NAD-SFC NoSubs
 9  1 20  20  6   -2.9  0.085 -9.000 -9.000  -999.    60.     19.5  0.0800  0.72  1.00  1.00  323.0  15.0  280.9  2.0   0  0.00   68.  1013.   2 NAD-SFC NoSubs
 9  1 20  20  7   -2.9  0.085 -9.000 -9.000  -999.    60.     19.5  0.0800  0.72  1.00  1.00  325.0  15.0  280.6  2.0   0  0.00   67.  1013.   2 NAD-SFC NoSubs
 9  1 20  20  8   -2.5  0.081 -9.000 -9.000  -999.    55.     19.1  0.0800  0.72  0.59  1.00  308.0  15.0  280.5  2.0   0  0.00   66.  1013.   2 NAD-SFC NoSubs
 9  1 20  20  9   19.4  0.188  0.312  0.010    56.   196.    -31.0  0.0800  0.72  0.33  2.10  310.0  15.0  282.5  2.0   0  0.00   55.  1013.   2 NAD-SFC NoSubs
 9  1 20  20 10   62.1  0.207  0.634  0.009   148.   225.    -12.8  0.0800  0.72  0.24  2.10  315.0  15.0  284.2  2.0   0  0.00   51.  1013.   2 NAD-SFC NoSubs
 9  1 20  20 11   93.5  0.215  0.887  0.009   269.   239.     -9.6  0.0800  0.72  0.21  2.10  308.0  15.0  286.4  2.0   0  0.00   48.  1013.   2 NAD-SFC NoSubs
 9  1 20  20 12  110.8  0.174  1.061  0.007   389.   174.     -4.3  0.0800  0.72  0.20  1.50  326.0  15.0  288.1  2.0   0  0.00   45.  1012.   2 NAD-SFC NoSubs
 9  1 20  20 13  113.2  0.180  1.170  0.007   511.   183.     -4.6  0.0950  0.72  0.20  1.50  343.0  15.0  289.4  2.0   0  0.00   44.  1011.   2 NAD-SFC NoSubs
 9  1 20  20 14  100.8  0.177  1.188  0.006   599.   179.     -5.0  0.0950  0.72  0.21  1.50  340.0  15.0  290.4  2.0   0  0.00   41.  1010.   2 NAD-SFC NoSubs
 9  1 20  20 15   73.9  0.217  1.105  0.006   657.   242.    -12.4  0.0950  0.72  0.23  2.10  352.0  15.0  290.9  2.0   0  0.00   40.  1009.   2 NAD-SFC NoSubs
 9  1 20  20 16   34.1  0.239  0.870  0.007   694.   280.    -35.9  0.0950  0.72  0.30  2.60  353.0  15.0  290.8  2.0   0  0.00   47.  1008.   2 NAD-SFC NoSubs
 9  1 20  20 17   14.3 -9.000 -9.000 -9.000  -999.  -999.  -99999.0  0.0471  0.72  0.49  0.00    0.0  15.0  290.1  2.0   0  0.00   50.  1008.   2 NAD-SFC NoSubs
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9	1	20	20	18	-5.5	0.108	-9.000	-9.000	-999.	86.	20.9	0.0960	0.72	1.00	1.50	9.0	15.0	289.4	2.0	0	0.00	54.	1008.	2	NAD-SFC	NoSubs
9	1	20	20	19	-1.3	0.074	-9.000	-9.000	-999.	49.	29.5	0.0960	0.72	1.00	0.50	17.0	15.0	288.8	2.0	0	0.00	57.	1009.	2	NAD-SFC	NoSubs
9	1	20	20	20	-1.3	0.074	-9.000	-9.000	-999.	49.	29.5	0.0960	0.72	1.00	0.50	15.0	15.0	288.2	2.0	0	0.00	61.	1009.	2	NAD-SFC	NoSubs
9	1	20	20	21	-1.2	0.073	-9.000	-9.000	-999.	47.	29.1	0.0800	0.72	1.00	0.50	329.0	15.0	287.8	2.0	0	0.00	63.	1009.	2	NAD-SFC	NoSubs
9	1	20	20	22	-1.3	0.074	-9.000	-9.000	-999.	49.	29.5	0.0950	0.72	1.00	0.50	354.0	15.0	287.5	2.0	0	0.00	65.	1009.	2	NAD-SFC	NoSubs
9	1	20	20	23	-2.9	0.086	-9.000	-9.000	-999.	61.	19.9	0.0950	0.72	1.00	1.00	349.0	15.0	287.2	2.0	0	0.00	65.	1009.	2	NAD-SFC	NoSubs
9	1	20	20	24	-5.5	0.108	-9.000	-9.000	-999.	85.	20.8	0.0950	0.72	1.00	1.50	348.0	15.0	287.2	2.0	0	0.00	65.	1009.	2	NAD-SFC	NoSubs
9	1	21	21	1	-10.6	0.150	-9.000	-9.000	-999.	139.	28.6	0.0950	0.72	1.00	2.10	349.0	15.0	287.1	2.0	0	0.00	64.	1009.	2	NAD-SFC	NoSubs
9	1	21	21	2	-5.5	0.108	-9.000	-9.000	-999.	86.	20.8	0.0950	0.72	1.00	1.50	330.0	15.0	286.8	2.0	0	0.00	63.	1009.	2	NAD-SFC	NoSubs
9	1	21	21	3	-10.0	0.145	-9.000	-9.000	-999.	132.	27.1	0.0800	0.72	1.00	2.10	319.0	15.0	286.5	2.0	0	0.00	63.	1008.	2	NAD-SFC	NoSubs
9	1	21	21	4	-15.7	0.182	-9.000	-9.000	-999.	187.	34.7	0.0800	0.72	1.00	2.60	320.0	15.0	286.1	2.0	0	0.00	64.	1008.	2	NAD-SFC	NoSubs
9	1	21	21	5	-15.7	0.182	-9.000	-9.000	-999.	187.	34.7	0.0800	0.72	1.00	2.60	317.0	15.0	285.8	2.0	0	0.00	65.	1008.	2	NAD-SFC	NoSubs
9	1	21	21	6	-10.1	0.145	-9.000	-9.000	-999.	132.	27.1	0.0800	0.72	1.00	2.10	321.0	15.0	285.6	2.0	0	0.00	64.	1008.	2	NAD-SFC	NoSubs
9	1	21	21	7	-10.1	0.145	-9.000	-9.000	-999.	132.	27.1	0.0800	0.72	1.00	2.10	309.0	15.0	285.8	2.0	0	0.00	62.	1008.	2	NAD-SFC	NoSubs
9	1	21	21	8	-9.3	0.146	-9.000	-9.000	-999.	133.	29.7	0.0800	0.72	0.59	2.10	307.0	15.0	285.8	2.0	0	0.00	61.	1008.	2	NAD-SFC	NoSubs
9	1	21	21	9	20.8	0.195	0.365	0.009	84.	207.	-32.1	0.0950	0.72	0.33	2.10	335.0	15.0	285.9	2.0	0	0.00	60.	1008.	2	NAD-SFC	NoSubs
9	1	21	21	10	63.4	0.214	0.681	0.008	178.	237.	-13.8	0.0950	0.72	0.24	2.10	340.0	15.0	286.8	2.0	0	0.00	56.	1008.	2	NAD-SFC	NoSubs
9	1	21	21	11	94.6	0.259	0.922	0.007	298.	316.	-16.5	0.0950	0.72	0.21	2.60	332.0	15.0	287.5	2.0	0	0.00	51.	1008.	2	NAD-SFC	NoSubs
9	1	21	21	12	111.6	0.255	1.088	0.006	415.	309.	-13.3	0.0800	0.72	0.20	2.60	325.0	15.0	288.0	2.0	0	0.00	48.	1007.	2	NAD-SFC	NoSubs
9	1	21	21	13	114.5	0.255	1.211	0.005	557.	310.	-13.0	0.0800	0.72	0.20	2.60	319.0	15.0	288.2	2.0	0	0.00	49.	1006.	3	NAD-SFC	NoSubs
9	1	21	21	14	102.0	0.289	1.232	0.005	658.	372.	-21.2	0.0800	0.72	0.21	3.10	326.0	15.0	288.5	2.0	0	0.00	51.	1006.	3	NAD-SFC	NoSubs
9	1	21	21	15	75.1	0.282	1.160	0.005	745.	359.	-26.7	0.0800	0.72	0.23	3.10	310.0	15.0	288.2	2.0	0	0.00	56.	1005.	3	NAD-SFC	NoSubs
9	1	21	21	16	35.6	0.233	0.919	0.005	782.	270.	-31.7	0.0800	0.72	0.29	2.60	308.0	15.0	287.8	2.0	0	0.00	60.	1005.	3	NAD-SFC	NoSubs
9	1	21	21	17	-8.5	0.188	-9.000	-9.000	-999.	196.	69.4	0.0800	0.72	0.48	2.60	318.0	15.0	287.4	2.0	0	0.00	63.	1005.	3	NAD-SFC	NoSubs
9	1	21	21	18	-16.3	0.189	-9.000	-9.000	-999.	198.	37.2	0.0950	0.72	1.00	2.60	334.0	15.0	287.0	2.0	0	0.00	67.	1005.	3	NAD-SFC	NoSubs
9	1	21	21	19	-21.9	0.221	-9.000	-9.000	-999.	249.	44.2	0.0800	0.72	1.00	3.10	306.0	15.0	286.5	2.0	0	0.00	73.	1005.	4	NAD-SFC	NoSubs
9	1	21	21	20	-21.9	0.221	-9.000	-9.000	-999.	249.	44.1	0.0800	0.72	1.00	3.10	319.0	15.0	286.1	2.0	0	0.25	79.	1005.	4	NAD-SFC	NoSubs
9	1	21	21	21	-21.4	0.221	-9.000	-9.000	-999.	250.	45.4	0.0800	0.72	1.00	3.10	306.0	15.0	285.8	2.0	0	0.25	83.	1005.	5	NAD-SFC	NoSubs
9	1	21	21	22	-21.4	0.221	-9.000	-9.000	-999.	250.	45.4	0.0800	0.72	1.00	3.10	327.0	15.0	285.6	2.0	0	0.25	87.	1006.	5	NAD-SFC	NoSubs
9	1	21	21	23	-14.9	0.183	-9.000	-9.000	-999.	188.	37.1	0.0800	0.72	1.00	2.60	328.0	15.0	285.5	2.0	0	0.25	90.	1006.	5	NAD-SFC	NoSubs
9	1	21	21	24	-15.7	0.190	-9.000	-9.000	-999.	199.	39.0	0.0950	0.72	1.00	2.60	339.0	15.0	285.4	2.0	0	0.51	92.	1005.	5	NAD-SFC	NoSubs
9	1	22	22	1	-15.2	0.190	-9.000	-9.000	-999.	199.	40.5	0.0950	0.72	1.00	2.60	342.0	15.0	285.2	2.0	0	0.51	94.	1005.	6	NAD-SFC	NoSubs
9	1	22	22	2	-15.2	0.190	-9.000	-9.000	-999.	199.	40.5	0.0950	0.72	1.00	2.60	331.0	15.0	285.2	2.0	0	0.51	95.	1004.	6	NAD-SFC	NoSubs
9	1	22	22	3	-15.2	0.190	-9.000	-9.000	-999.	199.	40.5	0.0950	0.72	1.00	2.60	330.0	15.0	285.2	2.0	0	0.25	97.	1004.	6	NAD-SFC	NoSubs
9	1	22	22	4	-15.2	0.190	-9.000	-9.000	-999.	199.	40.5	0.0950	0.72	1.00	2.60	334.0	15.0	285.1	2.0	0	0.25	98.	1004.	6	NAD-SFC	NoSubs
9	1	22	22	5	-19.3	0.230	-9.000	-9.000	-999.	265.	56.7	0.0950	0.72	1.00	3.10	335.0	15.0	285.1	2.0	0	0.25	99.	1003.	7	NAD-SFC	NoSubs
9	1	22	22	6	-14.0	0.192	-9.000	-9.000	-999.	202.	45.1	0.0950	0.72	1.00	2.60	332.0	15.0	285.2	2.0	0	0.00	99.	1004.	8	NAD-SFC	NoSubs
9	1	22	22	7	-10.7	0.193	-9.000	-9.000	-999.	204.	60.5	0.0950	0.72	1.00	2.60	337.0	15.0	285.2	2.0	0	0.25	99.	1004.	10	NAD-SFC	NoSubs
9	1	22	22	8	-9.8	0.194	-9.000	-9.000	-999.	206.	67.4	0.0960	0.72	0.58	2.60	2.0	15.0	285.4	2.0	0	0.25	99.	1004.	10	NAD-SFC	NoSubs
9	1	22	22	9	2.1	0.249	0.136	0.006	43.	298.	-662.2	0.0950	0.72	0.33	3.10	358.0	15.0	285.8	2.0	0	0.00	98.	1004.	10	NAD-SFC	NoSubs
9	1	22	22	10	12.9	0.262	0.337	0.006	106.	321.	-124.1	0.0950	0.72	0.24	3.10	354.0	15.0	286.4	2.0	0	0.00	95.	1005.	10	NAD-SFC	NoSubs
9	1	22	22	11	65.2	0.323	0.733	0.005	216.	441.	-46.5	0.0950	0.72	0.21	3.60	338.0	15.0	287.2	2.0	0	0.00	91.	1004.	8	NAD-SFC	NoSubs
9	1	22	22	12	92.1	0.367	0.936	0.006	319.	534.	-48.2	0.0950	0.72	0.20	4.10	333.0	15.0	287.8	2.0	0	0.00	89.	1004.	7	NAD-SFC	NoSubs
9	1	22	22	13	111.3	0.361	1.118	0.005	449.	520.	-37.7	0.0800	0.72	0.20	4.10	327.0	15.0	288.4	2.0	0	0.00	87.	1003.	5	NAD-SFC	NoSubs
9	1	22	22	14	99.8	0.333	1.201	0.006	621.	462.	-33.2	0.0950	0.72	0.21	3.60	337.0	15.0	289.4	2.0	0	0.00	82.	1003.	5	NAD-SFC	NoSubs
9	1	22	22	15	74.8	0.326	1.143	0.007	714.	448.	-41.6	0.0950	0.72	0.23	3.60	345.0	15.0	289.8	2.0	0	0.00	81.	1002.	5	NAD-SFC	NoSubs
9	1	22	22	16	37.7	0.350	0.926	0.007	754.	496.	-101.5	0.0950	0.72	0.29	4.10	344.0	15.0	289.5	2.0	0	0.00	84.	1002.	5	NAD-SFC	NoSubs
9	1	22	22	17	-6.0	0.228	-9.000	-9.000	-999.	270.	175.9	0.0800	0.72	0.48	3.10	329.0	15.0	288.6	2.0	0	0.00	91.	1002.	5	NAD-SFC	NoSubs
9	1	22	22	18	-21.2	0.221	-9.000	-9.000	-999.	250.	45.6	0.0800	0.72	1.00	3.10	316.0	15.0	287.8	2.0	0	0.00	95.	1003.	5	NAD-SFC	NoSubs
9	1	22	22	19	-14.3	0.184	-9.000	-9.000	-999.	189.	38.6	0.0800	0.72	1.00	2.60	325.0	15.0	287.2	2.0	0	0.00	98.	1003.	6	NAD-SFC	NoSubs
9	1	22	22	20	-13.8	0.184	-9.000	-9.000	-999.	190.	40.5	0.0800	0.72	1.00	2.60	317.0	15.0	286.8	2.0	0	0.00	100.	1004.	7	NAD-SFC	NoSubs
9	1	22	22	21	-14.4	0.184	-9.000	-9.000	-999.	189.	38.5	0.0800	0.72	1.00	2.60	320.0	15.0	286.1	2.0	0	0.00	100.	1004.	6	NAD-SFC	NoSubs
9	1	22	22	22	-9.8	0.151	-9.000	-9.000	-999.	141.	31.6	0.0950	0.72	1.00	2.10	335.0	15.0	285.8	2.0	0	0.00	100.	1005.	6	NAD-SFC	NoSubs
9	1	22	22	23	-5.1	0.107	-9.000	-9.000	-999.	85.	21.6	0.0950	0.72	1.00	1.50	331.0	15.0	285.6	2.0	0	0.00	100.	1005.	5	NAD-SFC	NoSubs
9	1	22	22	24	-4.9	0.107	-9.000	-9.000	-999.	84.	22.2	0.0950	0.72	1.00	1.50	343.0	15.0	285.8	2.0	0	0.00	100.	1005.	6	NAD-SFC	NoSubs
9	1	23	23	1	-2.4	0.080	-9.000	-9.000	-999.	54.	19.0	0.0800	0.72	1.00	1.00	320.0	15.0	285.8	2.0	0	0.00	100.	1005.	6	NAD-SFC	NoSubs
9	1	23	23	2	-0.9	0.064	-9.000	-9.000	-999.	39.	25.8	0.0420	0.72	1.00	0.50	297.0	15.0	285.8	2.0	0	0.00	100.	1005.	6	NAD-SFC	NoSubs
9	1	23	23	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	285.8	2.0	0	0.00	100.	1005.	6	NAD-SFC	NoSubs
9	1	23	23	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	285.9	2.0	0	0.00	100.	1005.	6	NAD-SFC	NoSubs
9	1	23	23	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	285.9	2.0	0	0.00	100.	1006.	5	NAD-SFC	NoSubs
9	1	23	23	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	285.9	2.0	0	0.00	100.	1006.	5	NAD-SFC	NoSubs
9	1	23	23	7	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	285.9	2.0	0	0.00	100.	1007.	6	NAD-SFC	NoSubs
9	1	23	23	8	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	0.58	0.00	0.0	15.0	285.9	2.0	0	0.00	100.	1007.	6	NAD-SFC	NoSubs
9	1	23	23	9	23.7	-9.000	-9.000	-9.000	208.	-999.	-99999.0	0.0471	0.72	0.32	0.00	0.0	15.0	285.5	2.0	0	0.00	100.	1008.	6	NAD-SFC	NoSubs
9	1	23	23	10	64.4	0.084	0.791	0.009	276.	58.	-1.0	0.0960	0.72	0.24	0.50	19.0	15.0	285.5	2.0	0	0.00	100.	1008.	5	NAD-SFC	NoSubs
9	1	23	23	11	93.6	-9.000	-9.000	-9.000	352.	-999.	-99999.0	0.0471	0.72	0.21	0.00	0.0	15.0	286.1	2.0	0	0.00	99.	1008.	5	NAD-SFC	NoSubs
9	1	23	23	12	113.0	0.180	1.141	0.006	472.	183.	-4.6	0.0950	0.72	0.20	1.50	344.0	15.0	287.4	2.0	0	0.00	92.	1007.	4	NAD-SFC	NoSubs
9	1	23	23	13	115.6	0.256	1.248	0.006	604.	310.	-13.0	0.0800	0.72	0.20	2.60	320.0	15.0	288.8	2.0	0	0.00	86.	1006.	4	NAD-SFC	NoSubs
9	1	23	23	14	103.8	0.289	1.269	0.006	707.	373.	-20.9	0.0800	0.72	0.21	3.10	319.0	15.0	290.0	2.0	0	0.00	82.	1006.	4	NAD-SFC	NoSubs
9	1	23	23	15	77.8	0.317	1.190	0.006	777.	429.	-36.9	0.0800	0.72	0.23	3.60	320.0	15.0	290.4	2.0	0	0.00	81.	1006.	4	NAD-SFC	NoSubs
9	1	23	23	16	39.1	0.304	0.959	0.006	809.	403.	-64.6	0.0800	0.72	0.29	3.60	313.0	15.0	289.9	2.0	0	0.00	86.	1006.	4	NAD-SFC	NoSubs
9	1	23	23	17	-4.4	0.203	-9.000	-9.000	-999.	224.	171.6	0.0420	0.72	0.47	3.10	292.0	15.0	289.2	2.0	0	0.00	89.	1006.	5	NAD-SFC	NoSubs
9	1	23	23	18	-11.4	0.163	-9.000	-9.000	-999.	158.	33.9	0.0420	0.72	1.00	2.60	275.0	15.0	289.0	2.0	0	0.25	90.	1007.	7	NAD-SFC	NoSubs
9	1	23	23	19	-3.1	0.083	-9.000	-9.000	-999.	59.	16.1	0.0200	0.72	1.00	1.50	264.0	15.0	288.9	2.0	0	0.51	90.	1007.	7	NAD-SFC	NoSubs
9	1	23	23	20	-7.3	0.129	-9.000	-9.000	-999.	111.	26.4	0.0420	0.72	1.00	2.10	291.0	15.0	288.9	2.0	0	0.25	91.	1008.	7	NAD-SFC	NoSubs
9	1	23	23	21	-13.9	0.184	-9.000	-9.000	-999.	190.	40.6	0.0800	0.72	1.00	2.60	307.0	15.0	288.6	2.0	0	0.00	91.	1009.	7	NAD-SFC	NoSubs
9	1	23	23	22	-10.9	0.163	-9.000	-9.000	-999.	159.	35.9	0.0420	0.72	1.00	2.60	297.0	15.0	288.2	2.0	0	0.00	92.	1009.	8	NAD-SFC	NoSubs

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 9  1 23  23 23   -6.1  0.131 -9.000 -9.000 -999.  114.     33.5  0.0420  0.72  1.00   2.10  277.0  15.0  288.1   2.0    0   0.00   93.  1010.    10 NAD-SFC NoSubs
 9  1 23  23 24   -6.1  0.131 -9.000 -9.000 -999.  114.     33.5  0.0420  0.72  1.00   2.10  270.0  15.0  287.9   2.0    0   0.00   93.  1010.    10 NAD-SFC NoSubs
 9  1 24  24  1   -7.9  0.146 -9.000 -9.000 -999.  134.     35.6  0.0200  0.72  1.00   2.60  256.0  15.0  287.9   2.0    0   0.00   91.  1010.    10 NAD-SFC NoSubs
 9  1 24  24  2   -7.9  0.146 -9.000 -9.000 -999.  134.     35.5  0.0200  0.72  1.00   2.60  269.0  15.0  287.8   2.0    0   0.00   90.  1011.    10 NAD-SFC NoSubs
 9  1 24  24  3   -7.9  0.146 -9.000 -9.000 -999.  134.     35.5  0.0200  0.72  1.00   2.60  267.0  15.0  287.5   2.0    0   0.25   91.  1011.    10 NAD-SFC NoSubs
 9  1 24  24  4   -6.1  0.131 -9.000 -9.000 -999.  114.     33.5  0.0420  0.72  1.00   2.10  288.0  15.0  287.2   2.0    0   0.51   92.  1011.    10 NAD-SFC NoSubs
 9  1 24  24  5   -3.6  0.092 -9.000 -9.000 -999.   67.     19.6  0.0420  0.72  1.00   1.50  299.0  15.0  287.1   2.0    0   0.51   93.  1012.     8 NAD-SFC NoSubs
 9  1 24  24  6   -1.7  0.071 -9.000 -9.000 -999.   46.     19.3  0.0800  0.72  1.00   1.00  302.0  15.0  287.0   2.0    0   0.51   93.  1012.    10 NAD-SFC NoSubs
 9  1 24  24  7   -1.4  0.065 -9.000 -9.000 -999.   39.     17.0  0.0420  0.72  1.00   1.00  297.0  15.0  286.9   2.0    0   0.25   93.  1012.    10 NAD-SFC NoSubs
 9  1 24  24  8   -1.6  0.070 -9.000 -9.000 -999.   45.     19.9  0.0800  0.72  0.58   1.00  303.0  15.0  286.9   2.0    0   0.00   91.  1012.    10 NAD-SFC NoSubs
 9  1 24  24  9    2.7  0.114  0.161  0.005   55.   92.    -48.4  0.0420  0.72  0.32   1.50  298.0  15.0  287.0   2.0    0   0.00   89.  1013.    10 NAD-SFC NoSubs
 9  1 24  24 10   13.6  0.260  0.417  0.005  192.  318.   -116.5  0.0420  0.72  0.24   3.60  294.0  15.0  287.5   2.0    0   0.00   81.  1013.    10 NAD-SFC NoSubs
 9  1 24  24 11   21.6  0.225  0.564  0.005  300.  256.    -47.4  0.0800  0.72  0.21   2.60  307.0  15.0  288.1   2.0    0   0.00   75.  1013.    10 NAD-SFC NoSubs
 9  1 24  24 12   26.1  0.154  0.656  0.005  390.  147.    -12.7  0.0950  0.72  0.20   1.50  338.0  15.0  288.6   2.0    0   0.00   70.  1012.    10 NAD-SFC NoSubs
 9  1 24  24 13   79.7  0.086  1.108  0.005  616.   62.     -1.0  0.0950  0.72  0.20   0.50  339.0  15.0  289.8   2.0    0   0.00   59.  1011.     8 NAD-SFC NoSubs
 9  1 24  24 14   86.4 -9.000 -9.000 -9.000  737. -999. -99999.0  0.0471  0.72  0.21   0.00    0.0  15.0  290.4   2.0    0   0.00   55.  1010.     7 NAD-SFC NoSubs
 9  1 24  24 15   72.7  0.102  1.179  0.005  812.   78.     -1.3  0.0220  0.72  0.23   1.00  183.0  15.0  290.4   2.0    0   0.00   54.  1010.     6 NAD-SFC NoSubs
 9  1 24  24 16   39.9  0.194  0.980  0.005  851.  205.    -16.4  0.0240  0.72  0.29   2.60  168.0  15.0  290.2   2.0    0   0.00   60.  1009.     5 NAD-SFC NoSubs
 9  1 24  24 17   -2.4  0.187 -9.000 -9.000 -999.  193.    248.5  0.0240  0.72  0.46   3.10  168.0  15.0  289.1   2.0    0   0.00   68.  1009.     6 NAD-SFC NoSubs
 9  1 24  24 18  -13.3  0.177 -9.000 -9.000 -999.  178.     37.5  0.0220  0.72  1.00   3.10  182.0  15.0  288.1   2.0    0   0.00   75.  1009.     8 NAD-SFC NoSubs
 9  1 24  24 19   -5.9  0.116 -9.000 -9.000 -999.   96.     23.7  0.0220  0.72  1.00   2.10  202.0  15.0  287.6   2.0    0   0.00   77.  1009.     8 NAD-SFC NoSubs
 9  1 24  24 20   -3.4  0.084 -9.000 -9.000 -999.   59.     16.0  0.0220  0.72  1.00   1.50  232.0  15.0  287.1   2.0    0   0.00   78.  1009.     6 NAD-SFC NoSubs
 9  1 24  24 21   -1.8  0.068 -9.000 -9.000 -999.   43.     15.9  0.0200  0.72  1.00   1.00  265.0  15.0  286.6   2.0    0   0.00   81.  1009.     6 NAD-SFC NoSubs
 9  1 24  24 22   -1.2  0.059 -9.000 -9.000 -999.   34.     15.1  0.0200  0.72  1.00   1.00  245.0  15.0  286.1   2.0    0   0.51   85.  1009.    10 NAD-SFC NoSubs
 9  1 24  24 23   -0.5  0.048 -9.000 -9.000 -999.   26.     20.3  0.0200  0.72  1.00   0.50  253.0  15.0  285.9   2.0    0   0.51   87.  1009.    10 NAD-SFC NoSubs
 9  1 24  24 24  -11.0  0.199 -9.000 -9.000 -999.  213.     63.9  0.0420  0.72  1.00   3.10  279.0  15.0  285.8   2.0    0   0.76   89.  1009.    10 NAD-SFC NoSubs
 9  1 25  25  1  -32.6  0.335 -9.000 -9.000 -999.  465.    103.6  0.0800  0.72  1.00   4.60  300.0  15.0  285.8   2.0    0   0.25   89.  1009.     5 NAD-SFC NoSubs
 9  1 25  25  2  -28.9  0.297 -9.000 -9.000 -999.  389.     81.4  0.0800  0.72  1.00   4.10  312.0  15.0  285.4   2.0    0   0.00   86.  1009.     5 NAD-SFC NoSubs
 9  1 25  25  3  -32.7  0.335 -9.000 -9.000 -999.  464.    103.1  0.0800  0.72  1.00   4.60  304.0  15.0  284.4   2.0    0   0.00   86.  1010.     5 NAD-SFC NoSubs
 9  1 25  25  4  -29.2  0.297 -9.000 -9.000 -999.  389.     80.8  0.0800  0.72  1.00   4.10  305.0  15.0  283.2   2.0    0   0.00   86.  1010.     5 NAD-SFC NoSubs
 9  1 25  25  5  -25.5  0.259 -9.000 -9.000 -999.  317.     61.3  0.0800  0.72  1.00   3.60  301.0  15.0  282.2   2.0    0   0.00   86.  1010.     5 NAD-SFC NoSubs
 9  1 25  25  6  -25.6  0.259 -9.000 -9.000 -999.  316.     61.2  0.0800  0.72  1.00   3.60  315.0  15.0  281.6   2.0    0   0.00   86.  1011.     5 NAD-SFC NoSubs
 9  1 25  25  7  -22.2  0.221 -9.000 -9.000 -999.  249.     43.7  0.0800  0.72  1.00   3.10  306.0  15.0  281.0   2.0    0   0.00   87.  1011.     4 NAD-SFC NoSubs
 9  1 25  25  8  -18.3  0.222 -9.000 -9.000 -999.  252.     54.1  0.0800  0.72  0.57   3.10  311.0  15.0  281.0   2.0    0   0.00   85.  1011.     4 NAD-SFC NoSubs
 9  1 25  25  9   23.9  0.404  0.638  0.005  392.  617.   -249.8  0.0800  0.72  0.32   5.10  324.0  15.0  282.2   2.0    0   0.00   74.  1011.     3 NAD-SFC NoSubs
 9  1 25  25 10   66.6  0.385  1.088  0.005  698.  573.    -76.9  0.0800  0.72  0.24   4.60  322.0  15.0  282.9   2.0    0   0.00   69.  1010.     3 NAD-SFC NoSubs
 9  1 25  25 11   97.6  0.369  1.290  0.005  792.  537.    -46.2  0.0950  0.72  0.21   4.10  331.0  15.0  283.2   2.0    0   0.00   66.  1010.     3 NAD-SFC NoSubs
 9  1 25  25 12  114.6  0.372  1.415  0.005  891.  546.    -40.6  0.0950  0.72  0.20   4.10  338.0  15.0  283.2   2.0    0   0.00   65.  1009.     3 NAD-SFC NoSubs
 9  1 25  25 13  112.7  0.373  1.453  0.005  980.  546.    -41.3  0.0960  0.72  0.20   4.10    3.0  15.0  283.6   2.0    0   0.00   63.  1008.     5 NAD-SFC NoSubs
 9  1 25  25 14   85.3  0.403  1.358  0.005 1056.  613.    -68.7  0.0960  0.72  0.20   4.60   12.0  15.0  283.8   2.0    0   0.00   62.  1007.     7 NAD-SFC NoSubs
 9  1 25  25 15   64.3  0.397  1.257  0.005 1109.  600.    -87.2  0.0960  0.72  0.23   4.60   12.0  15.0  283.5   2.0    0   0.00   63.  1007.     7 NAD-SFC NoSubs
 9  1 25  25 16   37.1  0.349  1.055  0.005 1139.  497.   -103.4  0.0950  0.72  0.28   4.10  360.0  15.0  283.4   2.0    0   0.00   64.  1007.     6 NAD-SFC NoSubs
 9  1 25  25 17   16.3 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.46   0.00    0.0  15.0  283.0   2.0    0   0.00   68.  1006.     6 NAD-SFC NoSubs
 9  1 25  25 18   -4.5  0.107 -9.000 -9.000 -999.   83.     24.0  0.0950  0.72  1.00   1.50  341.0  15.0  282.5   2.0    0   0.00   71.  1007.     8 NAD-SFC NoSubs
 9  1 25  25 19   -4.3  0.103 -9.000 -9.000 -999.   79.     22.9  0.0800  0.72  1.00   1.50  311.0  15.0  282.1   2.0    0   0.00   73.  1007.     8 NAD-SFC NoSubs
 9  1 25  25 20   -4.5  0.103 -9.000 -9.000 -999.   80.     21.8  0.0800  0.72  1.00   1.50  310.0  15.0  281.6   2.0    0   0.00   77.  1007.     7 NAD-SFC NoSubs
 9  1 25  25 21   -2.3  0.078 -9.000 -9.000 -999.   53.     18.9  0.0800  0.72  1.00   1.00  308.0  15.0  281.2   2.0    0   0.00   80.  1007.     7 NAD-SFC NoSubs
 9  1 25  25 22   -0.8  0.059 -9.000 -9.000 -999.   35.     24.3  0.0420  0.72  1.00   0.50  270.0  15.0  280.9   2.0    0   0.00   82.  1007.     8 NAD-SFC NoSubs
 9  1 25  25 23   -0.8  0.059 -9.000 -9.000 -999.   34.     23.8  0.0220  0.72  1.00   0.50  207.0  15.0  280.5   2.0    0   0.00   85.  1008.     7 NAD-SFC NoSubs
 9  1 25  25 24   -0.8  0.059 -9.000 -9.000 -999.   34.     23.8  0.0220  0.72  1.00   0.50  200.0  15.0  280.2   2.0    0   0.25   88.  1007.     7 NAD-SFC NoSubs
 9  1 26  26  1   -1.8  0.068 -9.000 -9.000 -999.   42.     15.9  0.0220  0.72  1.00   1.00  232.0  15.0  280.0   2.0    0   0.25   89.  1007.     7 NAD-SFC NoSubs
 9  1 26  26  2   -7.7  0.129 -9.000 -9.000 -999.  111.     24.7  0.0420  0.72  1.00   2.10  275.0  15.0  279.8   2.0    0   0.25   89.  1007.     6 NAD-SFC NoSubs
 9  1 26  26  3  -12.4  0.162 -9.000 -9.000 -999.  156.     30.4  0.0420  0.72  1.00   2.60  298.0  15.0  279.1   2.0    0   0.00   90.  1008.     5 NAD-SFC NoSubs
 9  1 26  26  4  -15.1  0.183 -9.000 -9.000 -999.  188.     36.5  0.0800  0.72  1.00   2.60  308.0  15.0  278.5   2.0    0   0.00   93.  1008.     5 NAD-SFC NoSubs
 9  1 26  26  5  -22.2  0.221 -9.000 -9.000 -999.  249.     43.4  0.0800  0.72  1.00   3.10  304.0  15.0  278.2   2.0    0   0.00   94.  1008.     4 NAD-SFC NoSubs
 9  1 26  26  6  -31.1  0.296 -9.000 -9.000 -999.  387.     75.2  0.0800  0.72  1.00   4.10  306.0  15.0  278.1   2.0    0   0.00   95.  1009.     4 NAD-SFC NoSubs
 9  1 26  26  7  -39.2  0.372 -9.000 -9.000 -999.  544.    118.3  0.0800  0.72  1.00   5.10  323.0  15.0  277.5   2.0    0   0.00  100.  1010.     4 NAD-SFC NoSubs
 9  1 26  26  8  -24.7  0.298 -9.000 -9.000 -999.  393.     96.3  0.0800  0.72  0.57   4.10  326.0  15.0  276.9   2.0    0   0.00  100.  1011.     4 NAD-SFC NoSubs
 9  1 26  26  9   23.6  0.297  0.542  0.005  242.  388.    -99.6  0.0800  0.72  0.32   3.60  323.0  15.0  276.8   2.0    0   0.00  100.  1011.     3 NAD-SFC NoSubs
 9  1 26  26 10   66.4  0.279  0.916  0.005  417.  354.    -29.6  0.0800  0.72  0.24   3.10  324.0  15.0  277.0   2.0    0   0.00   99.  1012.     3 NAD-SFC NoSubs
 9  1 26  26 11   97.5  0.252  1.146  0.005  557.  303.    -14.7  0.0800  0.72  0.21   2.60  322.0  15.0  277.4   2.0    0   0.00   97.  1012.     3 NAD-SFC NoSubs
 9  1 26  26 12  114.6  0.255  1.313  0.005  712.  309.    -13.1  0.0800  0.72  0.20   2.60  306.0  15.0  277.8   2.0    0   0.00   95.  1011.     3 NAD-SFC NoSubs
 9  1 26  26 13  116.5  0.220  1.431  0.005  908.  247.     -8.2  0.0800  0.72  0.20   2.10  306.0  15.0  278.4   2.0    0   0.00   88.  1011.     2 NAD-SFC NoSubs
 9  1 26  26 14  104.2  0.172  1.457  0.005 1071.  172.     -4.4  0.0800  0.72  0.20   1.50  322.0  15.0  279.8   2.0    0   0.00   76.  1011.     2 NAD-SFC NoSubs
 9  1 26  26 15   77.6  0.211  1.368  0.005 1189.  233.    -10.9  0.0800  0.72  0.22   2.10  326.0  15.0  280.9   2.0    0   0.00   66.  1010.     2 NAD-SFC NoSubs
 9  1 26  26 16   39.3  0.241  1.106  0.005 1242.  285.    -32.3  0.0950  0.72  0.28   2.60  350.0  15.0  281.1   2.0    0   0.00   64.  1010.     3 NAD-SFC NoSubs
 9  1 26  26 17   -6.5  0.196 -9.000 -9.000 -999.  209.    105.0  0.0960  0.72  0.45   2.60   15.0  15.0  280.5   2.0    0   0.00   71.  1010.     3 NAD-SFC NoSubs
 9  1 26  26 18   -9.4  0.139 -9.000 -9.000 -999.  125.     25.6  0.0650  0.72  1.00   2.10   31.0  15.0  279.8   2.0    0   0.00   76.  1011.     3 NAD-SFC NoSubs
 9  1 26  26 19   -2.4  0.078 -9.000 -9.000 -999.   53.     17.9  0.0400  0.72  1.00   1.00   74.0  15.0  279.1   2.0    0   0.00   79.  1013.     3 NAD-SFC NoSubs
 9  1 26  26 20   -1.0  0.066 -9.000 -9.000 -999.   41.     26.5  0.0280  0.72  1.00   0.50  138.0  15.0  278.4   2.0    0   0.00   83.  1013.     3 NAD-SFC NoSubs
 9  1 26  26 21   -4.1  0.090 -9.000 -9.000 -999.   64.     16.1  0.0280  0.72  1.00   1.50  136.0  15.0  277.8   2.0    0   0.00   86.  1015.     3 NAD-SFC NoSubs
 9  1 26  26 22   -4.1  0.090 -9.000 -9.000 -999.   65.     16.1  0.0280  0.72  1.00   1.50  146.0  15.0  277.2   2.0    0   0.00   87.  1016.     3 NAD-SFC NoSubs
 9  1 26  26 23   -7.4  0.117 -9.000 -9.000 -999.   96.     19.4  0.0240  0.72  1.00   2.10  164.0  15.0  277.0   2.0    0   0.00   88.  1016.     2 NAD-SFC NoSubs
 9  1 26  26 24  -11.5  0.146 -9.000 -9.000 -999.  134.     24.6  0.0240  0.72  1.00   2.60  158.0  15.0  276.5   2.0    0   0.00   87.  1016.     2 NAD-SFC NoSubs
 9  1 27  27  1   -7.4  0.117 -9.000 -9.000 -999.   96.     19.4  0.0240  0.72  1.00   2.10  171.0  15.0  276.2   2.0    0   0.00   87.  1017.     2 NAD-SFC NoSubs
 9  1 27  27  2   -2.2  0.075 -9.000 -9.000 -999.   49.     16.9  0.0220  0.72  1.00   1.00  182.0  15.0  275.8   2.0    0   0.00   87.  1017.     2 NAD-SFC NoSubs
 9  1 27  27  3   -2.2  0.074 -9.000 -9.000 -999.   48.     16.7  0.0200  0.72  1.00   1.00  241.0  15.0  275.2   2.0    0   0.00   87.  1018.     2 NAD-SFC NoSubs
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 9  1 27  27  4   -7.1  0.113 -9.000 -9.000 -999.   92.     18.6  0.0200  0.72  1.00   2.10  261.0  15.0  275.0  2.0   0   0.00   87.  1018.    2 NAD-SFC NoSubs
 9  1 27  27  5  -11.0  0.142 -9.000 -9.000 -999.  128.     23.4  0.0200  0.72  1.00   2.60  268.0  15.0  274.5  2.0   0   0.00   86.  1019.    2 NAD-SFC NoSubs
 9  1 27  27  6  -19.3  0.194 -9.000 -9.000 -999.  206.     34.6  0.0420  0.72  1.00   3.10  281.0  15.0  274.0  2.0   0   0.00   81.  1019.    2 NAD-SFC NoSubs
 9  1 27  27  7  -19.3  0.194 -9.000 -9.000 -999.  206.     34.6  0.0420  0.72  1.00   3.10  277.0  15.0  273.6  2.0   0   0.00   76.  1020.    2 NAD-SFC NoSubs
 9  1 27  27  8  -12.2  0.162 -9.000 -9.000 -999.  157.     31.9  0.0420  0.72  0.56   2.60  290.0  15.0  273.6  2.0   0   0.00   72.  1021.    2 NAD-SFC NoSubs
 9  1 27  27  9   22.7  0.296  0.361  0.005   75.  386.   -104.1  0.0800  0.72  0.32   3.60  321.0  15.0  275.9  2.0   0   0.00   56.  1022.    2 NAD-SFC NoSubs
 9  1 27  27 10   66.1  0.164  0.718  0.005  203.  170.     -6.0  0.0800  0.72  0.24   1.50  322.0  15.0  277.8  2.0   0   0.00   49.  1022.    2 NAD-SFC NoSubs
 9  1 27  27 11   97.8  0.117  1.064  0.005  450.   97.     -1.5  0.0420  0.72  0.21   1.00  293.0  15.0  279.0  2.0   0   0.00   44.  1022.    2 NAD-SFC NoSubs
 9  1 27  27 12  115.3  0.119  1.275  0.006  656.   99.     -1.3  0.0420  0.72  0.20   1.00  280.0  15.0  280.2  2.0   0   0.00   42.  1022.    2 NAD-SFC NoSubs
 9  1 27  27 13  118.0  0.120  1.364  0.007  784.   99.     -1.3  0.0420  0.72  0.20   1.00  286.0  15.0  281.1  2.0   0   0.00   39.  1022.    2 NAD-SFC NoSubs
 9  1 27  27 14  105.7  0.077  1.368  0.008  884.   51.     -1.0  0.0420  0.72  0.20   0.50  297.0  15.0  281.9  2.0   0   0.00   38.  1022.    2 NAD-SFC NoSubs
 9  1 27  27 15   79.0  0.083  1.273  0.008  953.   58.     -1.0  0.0800  0.72  0.22   0.50  314.0  15.0  282.4  2.0   0   0.00   37.  1021.    2 NAD-SFC NoSubs
 9  1 27  27 16   39.2  0.118  1.018  0.008  980.   97.     -3.8  0.0800  0.72  0.28   1.00  316.0  15.0  282.5  2.0   0   0.00   37.  1021.    2 NAD-SFC NoSubs
 9  1 27  27 17   -1.3  0.069 -9.000 -9.000 -999.   44.     22.6  0.0800  0.72  0.45   1.00  328.0  15.0  282.1  2.0   0   0.00   41.  1021.    2 NAD-SFC NoSubs
 9  1 27  27 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  281.0  2.0   0   0.00   47.  1021.    2 NAD-SFC NoSubs
 9  1 27  27 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  279.8  2.0   0   0.00   53.  1021.    2 NAD-SFC NoSubs
 9  1 27  27 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  278.8  2.0   0   0.00   58.  1021.    2 NAD-SFC NoSubs
 9  1 27  27 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  277.9  2.0   0   0.00   63.  1021.    2 NAD-SFC NoSubs
 9  1 27  27 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  277.0  2.0   0   0.00   68.  1021.    2 NAD-SFC NoSubs
 9  1 27  27 23   -1.1  0.070 -9.000 -9.000 -999.   44.     27.7  0.0400  0.72  1.00   0.50   86.0  15.0  276.4  2.0   0   0.00   72.  1021.    2 NAD-SFC NoSubs
 9  1 27  27 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  275.8  2.0   0   0.00   74.  1021.    2 NAD-SFC NoSubs
 9  1 28  28  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  275.4  2.0   0   0.00   77.  1021.    2 NAD-SFC NoSubs
 9  1 28  28  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  274.9  2.0   0   0.00   78.  1021.    2 NAD-SFC NoSubs
 9  1 28  28  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  274.6  2.0   0   0.00   80.  1020.    2 NAD-SFC NoSubs
 9  1 28  28  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  274.2  2.0   0   0.00   81.  1020.    2 NAD-SFC NoSubs
 9  1 28  28  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  274.0  2.0   0   0.00   81.  1020.    2 NAD-SFC NoSubs
 9  1 28  28  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  273.8  2.0   0   0.00   80.  1020.    3 NAD-SFC NoSubs
 9  1 28  28  7   -1.0  0.067 -9.000 -9.000 -999.   42.     26.7  0.0280  0.72  1.00   0.50  136.0  15.0  273.8  2.0   0   0.00   79.  1020.    3 NAD-SFC NoSubs
 9  1 28  28  8   -0.8  0.060 -9.000 -9.000 -999.   35.     24.4  0.0280  0.72  0.56   0.50  149.0  15.0  273.9  2.0   0   0.00   76.  1020.    3 NAD-SFC NoSubs
 9  1 28  28  9   25.0 -9.000 -9.000 -9.000   66. -999. -99999.0  0.0471  0.72  0.31   0.00    0.0  15.0  276.6  2.0   0   0.00   61.  1020.    3 NAD-SFC NoSubs
 9  1 28  28 10   68.4 -9.000 -9.000 -9.000  205. -999. -99999.0  0.0471  0.72  0.23   0.00    0.0  15.0  279.2  2.0   0   0.00   51.  1019.    3 NAD-SFC NoSubs
 9  1 28  28 11  100.0 -9.000 -9.000 -9.000  398. -999. -99999.0  0.0471  0.72  0.21   0.00    0.0  15.0  281.2  2.0   0   0.00   44.  1018.    3 NAD-SFC NoSubs
 9  1 28  28 12  116.8 -9.000 -9.000 -9.000  518. -999. -99999.0  0.0471  0.72  0.20   0.00    0.0  15.0  282.6  2.0   0   0.00   40.  1017.    2 NAD-SFC NoSubs
 9  1 28  28 13  119.6  0.078  1.267  0.014  617.   52.     -1.0  0.0420  0.72  0.20   0.50  288.0  15.0  283.8  2.0   0   0.00   40.  1016.    2 NAD-SFC NoSubs
 9  1 28  28 14  107.5  0.087  1.262  0.014  678.   62.     -1.0  0.0800  0.72  0.20   0.50  315.0  15.0  284.8  2.0   0   0.00   39.  1015.    2 NAD-SFC NoSubs
 9  1 28  28 15   80.7  0.133  1.164  0.014  707.  116.     -2.6  0.0950  0.72  0.22   1.00  341.0  15.0  285.1  2.0   0   0.00   40.  1014.    2 NAD-SFC NoSubs
 9  1 28  28 16   40.9  0.161  0.934  0.014  721.  155.     -9.3  0.0950  0.72  0.28   1.50  352.0  15.0  285.1  2.0   0   0.00   42.  1014.    2 NAD-SFC NoSubs
 9  1 28  28 17   -2.3  0.111 -9.000 -9.000 -999.   90.     53.9  0.0960  0.72  0.44   1.50   21.0  15.0  284.5  2.0   0   0.00   47.  1014.    3 NAD-SFC NoSubs
 9  1 28  28 18   -4.9  0.101 -9.000 -9.000 -999.   77.     19.1  0.0650  0.72  1.00   1.50   58.0  15.0  283.5  2.0   0   0.00   51.  1014.    3 NAD-SFC NoSubs
 9  1 28  28 19   -2.4  0.078 -9.000 -9.000 -999.   52.     17.8  0.0400  0.72  1.00   1.00   88.0  15.0  282.2  2.0   0   0.00   57.  1014.    3 NAD-SFC NoSubs
 9  1 28  28 20   -1.0  0.066 -9.000 -9.000 -999.   41.     26.4  0.0280  0.72  1.00   0.50  120.0  15.0  281.2  2.0   0   0.00   62.  1014.    3 NAD-SFC NoSubs
 9  1 28  28 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  280.2  2.0   0   0.00   66.  1014.    3 NAD-SFC NoSubs
 9  1 28  28 22   -1.0  0.068 -9.000 -9.000 -999.   42.     27.0  0.0310  0.72  1.00   0.50   91.0  15.0  279.4  2.0   0   0.00   70.  1014.    2 NAD-SFC NoSubs
 9  1 28  28 23   -1.0  0.068 -9.000 -9.000 -999.   42.     27.0  0.0310  0.72  1.00   0.50   98.0  15.0  278.6  2.0   0   0.00   74.  1015.    2 NAD-SFC NoSubs
 9  1 28  28 24   -1.0  0.068 -9.000 -9.000 -999.   42.     27.0  0.0310  0.72  1.00   0.50  108.0  15.0  278.0  2.0   0   0.00   77.  1015.    2 NAD-SFC NoSubs
 9  1 29  29  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  277.5  2.0   0   0.00   80.  1015.    2 NAD-SFC NoSubs
 9  1 29  29  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  277.2  2.0   0   0.00   81.  1015.    2 NAD-SFC NoSubs
 9  1 29  29  3   -1.1  0.070 -9.000 -9.000 -999.   44.     27.8  0.0420  0.72  1.00   0.50  285.0  15.0  277.0  2.0   0   0.00   83.  1015.    2 NAD-SFC NoSubs
 9  1 29  29  4   -2.5  0.080 -9.000 -9.000 -999.   54.     18.1  0.0420  0.72  1.00   1.00  281.0  15.0  277.0  2.0   0   0.00   87.  1016.    2 NAD-SFC NoSubs
 9  1 29  29  5   -2.5  0.080 -9.000 -9.000 -999.   54.     18.1  0.0420  0.72  1.00   1.00  278.0  15.0  276.8  2.0   0   0.00   91.  1016.    2 NAD-SFC NoSubs
 9  1 29  29  6   -4.5  0.095 -9.000 -9.000 -999.   71.     17.3  0.0420  0.72  1.00   1.50  284.0  15.0  276.6  2.0   0   0.00   93.  1016.    2 NAD-SFC NoSubs
 9  1 29  29  7   -4.5  0.095 -9.000 -9.000 -999.   71.     17.3  0.0420  0.72  1.00   1.50  293.0  15.0  276.4  2.0   0   0.00   92.  1017.    2 NAD-SFC NoSubs
 9  1 29  29  8   -3.9  0.093 -9.000 -9.000 -999.   68.     18.4  0.0420  0.72  0.55   1.50  294.0  15.0  276.4  2.0   0   0.00   89.  1017.    2 NAD-SFC NoSubs
 9  1 29  29  9   24.6  0.191  0.355  0.010   66.  201.    -25.9  0.0800  0.72  0.31   2.10  313.0  15.0  278.8  2.0   0   0.00   70.  1017.    2 NAD-SFC NoSubs
 9  1 29  29 10   68.4  0.164  0.684  0.010  170.  160.     -5.9  0.0800  0.72  0.23   1.50  309.0  15.0  280.8  2.0   0   0.00   62.  1017.    2 NAD-SFC NoSubs
 9  1 29  29 11  100.4  0.136  0.971  0.011  331.  120.     -2.3  0.0950  0.72  0.21   1.00  333.0  15.0  282.9  2.0   0   0.00   55.  1017.    2 NAD-SFC NoSubs
 9  1 29  29 12  118.3  0.139  1.142  0.011  457.  124.     -2.0  0.0950  0.72  0.20   1.00  340.0  15.0  285.0  2.0   0   0.00   51.  1016.    2 NAD-SFC NoSubs
 9  1 29  29 13  121.4  0.181  1.226  0.010  550.  185.     -4.4  0.0950  0.72  0.20   1.50  343.0  15.0  286.8  2.0   0   0.00   46.  1016.    2 NAD-SFC NoSubs
 9  1 29  29 14  109.5  0.179  1.235  0.010  623.  181.     -4.7  0.0950  0.72  0.20   1.50  351.0  15.0  288.0  2.0   0   0.00   41.  1015.    2 NAD-SFC NoSubs
 9  1 29  29 15   82.8  0.219  1.154  0.010  672.  247.    -11.5  0.0960  0.72  0.22   2.10    5.0  15.0  288.4  2.0   0   0.00   41.  1015.    2 NAD-SFC NoSubs
 9  1 29  29 16   42.9  0.207  0.937  0.009  695.  226.    -18.6  0.0960  0.72  0.27   2.10   24.0  15.0  288.2  2.0   0   0.00   46.  1015.    2 NAD-SFC NoSubs
 9  1 29  29 17   -3.1  0.147 -9.000 -9.000 -999.  135.     91.6  0.0650  0.72  0.44   2.10   40.0  15.0  287.4  2.0   0   0.00   49.  1015.    2 NAD-SFC NoSubs
 9  1 29  29 18   -5.0  0.101 -9.000 -9.000 -999.   78.     19.0  0.0650  0.72  1.00   1.50   57.0  15.0  286.1  2.0   0   0.00   53.  1015.    2 NAD-SFC NoSubs
 9  1 29  29 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  284.8  2.0   0   0.00   60.  1015.    2 NAD-SFC NoSubs
 9  1 29  29 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  283.5  2.0   0   0.00   66.  1016.    2 NAD-SFC NoSubs
 9  1 29  29 21   -1.1  0.069 -9.000 -9.000 -999.   43.     27.5  0.0400  0.72  1.00   0.50   69.0  15.0  282.9  2.0   0   0.00   66.  1016.    2 NAD-SFC NoSubs
 9  1 29  29 22   -4.4  0.094 -9.000 -9.000 -999.   70.     17.2  0.0400  0.72  1.00   1.50   82.0  15.0  282.0  2.0   0   0.00   66.  1016.    2 NAD-SFC NoSubs
 9  1 29  29 23   -8.4  0.127 -9.000 -9.000 -999.  109.     22.2  0.0400  0.72  1.00   2.10   84.0  15.0  281.1  2.0   0   0.00   70.  1017.    2 NAD-SFC NoSubs
 9  1 29  29 24   -8.4  0.127 -9.000 -9.000 -999.  109.     22.1  0.0400  0.72  1.00   2.10   68.0  15.0  280.4  2.0   0   0.00   73.  1017.    2 NAD-SFC NoSubs
 9  1 30  30  1   -9.6  0.139 -9.000 -9.000 -999.  124.     25.2  0.0650  0.72  1.00   2.10   55.0  15.0  280.0  2.0   0   0.00   75.  1017.    2 NAD-SFC NoSubs
 9  1 30  30  2   -9.6  0.139 -9.000 -9.000 -999.  124.     25.2  0.0650  0.72  1.00   2.10   32.0  15.0  279.5  2.0   0   0.00   77.  1017.    2 NAD-SFC NoSubs
 9  1 30  30  3   -5.6  0.109 -9.000 -9.000 -999.   86.     20.7  0.0960  0.72  1.00   1.50   17.0  15.0  279.0  2.0   0   0.00   79.  1017.    2 NAD-SFC NoSubs
 9  1 30  30  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  278.6  2.0   0   0.00   82.  1017.    2 NAD-SFC NoSubs
 9  1 30  30  5   -5.6  0.109 -9.000 -9.000 -999.   86.     20.6  0.0950  0.72  1.00   1.50  350.0  15.0  278.1  2.0   0   0.00   84.  1017.    2 NAD-SFC NoSubs
 9  1 30  30  6   -5.6  0.109 -9.000 -9.000 -999.   86.     20.6  0.0950  0.72  1.00   1.50  348.0  15.0  277.8  2.0   0   0.00   85.  1018.    2 NAD-SFC NoSubs
 9  1 30  30  7   -3.0  0.087 -9.000 -9.000 -999.   62.     20.0  0.0950  0.72  1.00   1.00  352.0  15.0  277.5  2.0   0   0.00   85.  1018.    2 NAD-SFC NoSubs
 9  1 30  30  8   11.3 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.55   0.00    0.0  15.0  277.6  2.0   0   0.00   81.  1018.    2 NAD-SFC NoSubs
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 9  1 30  30  9   25.6 -9.000 -9.000 -9.000   75. -999. -99999.0  0.0471  0.72  0.31  0.00    0.0  15.0 280.1  2.0    0  0.00  67. 1018.    2 NAD-SFC NoSubs
 9  1 30  30 10   69.9  0.112  0.690  0.013  170.   90.     -1.8  0.0420  0.72  0.23  1.00  292.0  15.0 283.6  2.0    0  0.00  50. 1017.    2 NAD-SFC NoSubs
 9  1 30  30 11  102.0  0.086  0.957  0.012  312.   61.     -1.0  0.0800  0.72  0.21  0.50  312.0  15.0 285.6  2.0    0  0.00  46. 1017.    2 NAD-SFC NoSubs
 9  1 30  30 12  120.1  0.134  1.124  0.012  429.  118.     -1.8  0.0800  0.72  0.20  1.00  309.0  15.0 287.5  2.0    0  0.00  41. 1016.    2 NAD-SFC NoSubs
 9  1 30  30 13  123.0  0.135  1.200  0.011  509.  119.     -1.8  0.0800  0.72  0.20  1.00  324.0  15.0 288.5  2.0    0  0.00  39. 1015.    2 NAD-SFC NoSubs
 9  1 30  30 14  111.0  0.133  1.206  0.011  572.  117.     -1.9  0.0800  0.72  0.20  1.00  310.0  15.0 289.2  2.0    0  0.00  39. 1015.    2 NAD-SFC NoSubs
 9  1 30  30 15   84.4  0.168  1.129  0.010  616.  166.     -5.1  0.0800  0.72  0.22  1.50  328.0  15.0 289.8  2.0    0  0.00  39. 1014.    2 NAD-SFC NoSubs
 9  1 30  30 16   44.9  0.163  0.927  0.010  640.  158.     -8.7  0.0960  0.72  0.27  1.50   13.0  15.0 290.9  2.0    0  0.00  41. 1013.    2 NAD-SFC NoSubs
 9  1 30  30 17   -1.9  0.148 -9.000 -9.000 -999.  137.    152.3  0.0650  0.72  0.43  2.10   32.0  15.0 290.1  2.0    0  0.00  45. 1013.    2 NAD-SFC NoSubs
 9  1 30  30 18   -4.9  0.101 -9.000 -9.000 -999.   78.     19.1  0.0650  0.72  1.00  1.50   31.0  15.0 288.9  2.0    0  0.00  50. 1013.    2 NAD-SFC NoSubs
 9  1 30  30 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 287.5  2.0    0  0.00  55. 1012.    2 NAD-SFC NoSubs
 9  1 30  30 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 286.2  2.0    0  0.00  62. 1012.    2 NAD-SFC NoSubs
 9  1 30  30 21   -1.3  0.075 -9.000 -9.000 -999.   49.     29.6  0.0960  0.72  1.00  0.50   18.0  15.0 285.2  2.0    0  0.00  67. 1012.    2 NAD-SFC NoSubs
 9  1 30  30 22   -5.5  0.108 -9.000 -9.000 -999.   86.     20.8  0.0950  0.72  1.00  1.50  341.0  15.0 284.2  2.0    0  0.00  73. 1012.    2 NAD-SFC NoSubs
 9  1 30  30 23  -10.1  0.145 -9.000 -9.000 -999.  132.     27.0  0.0800  0.72  1.00  2.10  321.0  15.0 283.6  2.0    0  0.00  74. 1012.    2 NAD-SFC NoSubs
 9  1 30  30 24  -15.8  0.182 -9.000 -9.000 -999.  187.     34.5  0.0800  0.72  1.00  2.60  308.0  15.0 283.2  2.0    0  0.00  74. 1012.    2 NAD-SFC NoSubs
 9  1 31  31  1  -10.1  0.145 -9.000 -9.000 -999.  132.     26.9  0.0800  0.72  1.00  2.10  314.0  15.0 282.9  2.0    0  0.00  75. 1012.    2 NAD-SFC NoSubs
 9  1 31  31  2  -10.1  0.145 -9.000 -9.000 -999.  132.     26.9  0.0800  0.72  1.00  2.10  308.0  15.0 282.4  2.0    0  0.00  76. 1011.    2 NAD-SFC NoSubs
 9  1 31  31  3  -10.2  0.145 -9.000 -9.000 -999.  132.     26.9  0.0800  0.72  1.00  2.10  312.0  15.0 281.8  2.0    0  0.00  77. 1011.    2 NAD-SFC NoSubs
 9  1 31  31  4  -10.2  0.145 -9.000 -9.000 -999.  132.     26.8  0.0800  0.72  1.00  2.10  301.0  15.0 281.2  2.0    0  0.00  77. 1011.    2 NAD-SFC NoSubs
 9  1 31  31  5   -5.3  0.105 -9.000 -9.000 -999.   82.     19.9  0.0800  0.72  1.00  1.50  303.0  15.0 280.8  2.0    0  0.00  76. 1011.    2 NAD-SFC NoSubs
 9  1 31  31  6   -2.5  0.079 -9.000 -9.000 -999.   54.     18.1  0.0420  0.72  1.00  1.00  287.0  15.0 280.2  2.0    0  0.00  75. 1011.    2 NAD-SFC NoSubs
 9  1 31  31  7   -1.1  0.069 -9.000 -9.000 -999.   44.     27.7  0.0420  0.72  1.00  0.50  285.0  15.0 279.9  2.0    0  0.00  76. 1011.    2 NAD-SFC NoSubs
 9  1 31  31  8   -0.8  0.061 -9.000 -9.000 -999.   37.     25.0  0.0420  0.72  0.54  0.50  282.0  15.0 279.8  2.0    0  0.00  76. 1011.    2 NAD-SFC NoSubs
 9  1 31  31  9   26.7  0.113  0.396  0.014   84.   91.     -4.9  0.0800  0.72  0.31  1.00  306.0  15.0 281.8  2.0    0  0.00  64. 1011.    2 NAD-SFC NoSubs
 9  1 31  31 10   70.8  0.082  0.702  0.011  176.   56.     -1.0  0.0800  0.72  0.23  0.50  304.0  15.0 283.6  2.0    0  0.00  59. 1011.    2 NAD-SFC NoSubs
 9  1 31  31 11  103.1  0.077  0.956  0.010  305.   51.     -1.0  0.0420  0.72  0.21  0.50  298.0  15.0 285.8  2.0    0  0.00  53. 1010.    2 NAD-SFC NoSubs
 9  1 31  31 12  121.1  0.120  1.130  0.010  429.  100.     -1.3  0.0420  0.72  0.20  1.00  296.0  15.0 287.4  2.0    0  0.00  47. 1009.    2 NAD-SFC NoSubs
 9  1 31  31 13  124.1  0.135  1.226  0.010  535.  119.     -1.8  0.0800  0.72  0.20  1.00  307.0  15.0 288.6  2.0    0  0.00  45. 1009.    2 NAD-SFC NoSubs
 9  1 31  31 14  112.2  0.174  1.243  0.009  616.  174.     -4.2  0.0800  0.72  0.20  1.50  324.0  15.0 289.4  2.0    0  0.00  44. 1008.    2 NAD-SFC NoSubs
 9  1 31  31 15   85.5  0.169  1.169  0.008  671.  166.     -5.0  0.0800  0.72  0.22  1.50  329.0  15.0 289.8  2.0    0  0.00  43. 1007.    2 NAD-SFC NoSubs
 9  1 31  31 16   45.6  0.163  0.961  0.008  698.  158.     -8.5  0.0950  0.72  0.27  1.50  336.0  15.0 289.8  2.0    0  0.00  47. 1007.    2 NAD-SFC NoSubs
 9  1 31  31 17   -1.1  0.113 -9.000 -9.000 -999.   92.    118.3  0.0950  0.72  0.43  1.50  348.0  15.0 289.1  2.0    0  0.00  51. 1007.    2 NAD-SFC NoSubs
 9  1 31  31 18   -1.2  0.074 -9.000 -9.000 -999.   49.     29.5  0.0950  0.72  1.00  0.50  349.0  15.0 287.9  2.0    0  0.00  56. 1007.    2 NAD-SFC NoSubs
 9  1 31  31 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 286.5  2.0    0  0.00  62. 1008.    2 NAD-SFC NoSubs
 9  1 31  31 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 285.2  2.0    0  0.00  68. 1008.    2 NAD-SFC NoSubs
 9  1 31  31 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 284.2  2.0    0  0.00  73. 1008.    2 NAD-SFC NoSubs
 9  1 31  31 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 283.2  2.0    0  0.00  78. 1008.    2 NAD-SFC NoSubs
 9  1 31  31 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 282.4  2.0    0  0.00  82. 1009.    2 NAD-SFC NoSubs
 9  1 31  31 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 281.8  2.0    0  0.00  85. 1009.    2 NAD-SFC NoSubs
 9  2  1  32  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 281.2  2.0    0  0.00  87. 1009.    2 NAD-SFC NoSubs
 9  2  1  32  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 280.8  2.0    0  0.00  88. 1009.    2 NAD-SFC NoSubs
 9  2  1  32  3   -1.1  0.069 -9.000 -9.000 -999.   44.     27.7  0.0420  0.72  1.00  0.50  297.0  15.0 280.2  2.0    0  0.00  87. 1010.    2 NAD-SFC NoSubs
 9  2  1  32  4   -2.5  0.079 -9.000 -9.000 -999.   54.     18.1  0.0420  0.72  1.00  1.00  289.0  15.0 280.2  2.0    0  0.00  83. 1011.    2 NAD-SFC NoSubs
 9  2  1  32  5   -4.5  0.095 -9.000 -9.000 -999.   70.     17.3  0.0420  0.72  1.00  1.50  277.0  15.0 280.0  2.0    0  0.00  79. 1011.    2 NAD-SFC NoSubs
 9  2  1  32  6   -3.8  0.086 -9.000 -9.000 -999.   61.     15.2  0.0200  0.72  1.00  1.50  256.0  15.0 279.9  2.0    0  0.00  76. 1012.    2 NAD-SFC NoSubs
 9  2  1  32  7   -3.9  0.087 -9.000 -9.000 -999.   62.     15.4  0.0220  0.72  1.00  1.50  239.0  15.0 279.8  2.0    0  0.00  77. 1013.    2 NAD-SFC NoSubs
 9  2  1  32  8   -3.2  0.084 -9.000 -9.000 -999.   58.     16.5  0.0220  0.72  0.54  1.50  226.0  15.0 279.9  2.0    0  0.00  76. 1013.    2 NAD-SFC NoSubs
 9  2  1  32  9   27.7  0.135  0.382  0.010   72.  119.     -8.0  0.0420  0.72  0.31  1.50  290.0  15.0 282.5  2.0    0  0.00  64. 1013.    2 NAD-SFC NoSubs
 9  2  1  32 10   71.9  0.113  0.719  0.009  186.   91.     -1.8  0.0420  0.72  0.23  1.00  284.0  15.0 284.1  2.0    0  0.00  56. 1013.    2 NAD-SFC NoSubs
 9  2  1  32 11  104.2  0.137  1.031  0.010  380.  121.     -2.2  0.0200  0.72  0.21  1.50  266.0  15.0 286.0  2.0    0  0.00  48. 1013.    2 NAD-SFC NoSubs
 9  2  1  32 12  122.2  0.198  1.189  0.010  496.  211.     -5.7  0.0420  0.72  0.20  2.10  276.0  15.0 287.4  2.0    0  0.00  43. 1012.    2 NAD-SFC NoSubs
 9  2  1  32 13  125.2  0.221  1.271  0.010  591.  250.     -7.8  0.0800  0.72  0.20  2.10  304.0  15.0 288.5  2.0    0  0.00  41. 1011.    2 NAD-SFC NoSubs
 9  2  1  32 14  113.3  0.219  1.278  0.009  665.  246.     -8.4  0.0800  0.72  0.20  2.10  329.0  15.0 289.2  2.0    0  0.00  40. 1011.    2 NAD-SFC NoSubs
 9  2  1  32 15   86.7  0.220  1.197  0.009  714.  248.    -11.1  0.0950  0.72  0.22  2.10  346.0  15.0 289.8  2.0    0  0.00  40. 1010.    2 NAD-SFC NoSubs
 9  2  1  32 16   46.7  0.208  0.986  0.008  738.  228.    -17.4  0.0960  0.72  0.27  2.10    6.0  15.0 289.6  2.0    0  0.00  44. 1010.    2 NAD-SFC NoSubs
 9  2  1  32 17   -0.7  0.164 -9.000 -9.000 -999.  159.    534.3  0.0960  0.72  0.42  2.10   28.0  15.0 288.9  2.0    0  0.00  48. 1010.    2 NAD-SFC NoSubs
 9  2  1  32 18   -4.9  0.101 -9.000 -9.000 -999.   78.     19.1  0.0650  0.72  1.00  1.50   52.0  15.0 287.8  2.0    0  0.00  52. 1011.    2 NAD-SFC NoSubs
 9  2  1  32 19   -1.2  0.072 -9.000 -9.000 -999.   46.     28.6  0.0650  0.72  1.00  0.50   46.0  15.0 286.6  2.0    0  0.00  58. 1011.    2 NAD-SFC NoSubs
 9  2  1  32 20   -1.1  0.069 -9.000 -9.000 -999.   43.     27.4  0.0400  0.72  1.00  0.50   79.0  15.0 285.6  2.0    0  0.00  63. 1011.    2 NAD-SFC NoSubs
 9  2  1  32 21   -2.9  0.087 -9.000 -9.000 -999.   61.     20.0  0.0960  0.72  1.00  1.00   25.0  15.0 284.8  2.0    0  0.00  66. 1012.    2 NAD-SFC NoSubs
 9  2  1  32 22  -16.8  0.189 -9.000 -9.000 -999.  198.     36.5  0.0960  0.72  1.00  2.60   22.0  15.0 283.8  2.0    0  0.00  71. 1012.    2 NAD-SFC NoSubs
 9  2  1  32 23  -29.6  0.268 -9.000 -9.000 -999.  333.     58.9  0.0960  0.72  1.00  3.60   21.0  15.0 283.2  2.0    0  0.00  74. 1013.    2 NAD-SFC NoSubs
 9  2  1  32 24  -24.2  0.229 -9.000 -9.000 -999.  263.     44.7  0.0960  0.72  1.00  3.10   22.0  15.0 283.0  2.0    0  0.00  75. 1013.    2 NAD-SFC NoSubs
 9  2  2  33  1  -16.8  0.189 -9.000 -9.000 -999.  198.     36.5  0.0960  0.72  1.00  2.60   12.0  15.0 282.6  2.0    0  0.00  76. 1013.    2 NAD-SFC NoSubs
 9  2  2  33  2   -5.5  0.108 -9.000 -9.000 -999.   88.     20.7  0.0950  0.72  1.00  1.50  345.0  15.0 282.2  2.0    0  0.00  76. 1013.    2 NAD-SFC NoSubs
 9  2  2  33  3   -4.5  0.095 -9.000 -9.000 -999.   70.     17.3  0.0420  0.72  1.00  1.50  283.0  15.0 281.8  2.0    0  0.00  77. 1013.    2 NAD-SFC NoSubs
 9  2  2  33  4   -5.3  0.105 -9.000 -9.000 -999.   82.     19.9  0.0800  0.72  1.00  1.50  305.0  15.0 281.4  2.0    0  0.00  77. 1013.    2 NAD-SFC NoSubs
 9  2  2  33  5   -2.9  0.085 -9.000 -9.000 -999.   60.     19.5  0.0800  0.72  1.00  1.00  329.0  15.0 280.9  2.0    0  0.00  79. 1013.    2 NAD-SFC NoSubs
 9  2  2  33  6   -1.3  0.075 -9.000 -9.000 -999.   50.     29.8  0.0960  0.72  1.00  0.50   13.0  15.0 280.4  2.0    0  0.00  81. 1013.    2 NAD-SFC NoSubs
 9  2  2  33  7   -1.3  0.075 -9.000 -9.000 -999.   50.     29.8  0.0960  0.72  1.00  0.50    6.0  15.0 280.0  2.0    0  0.00  83. 1014.    2 NAD-SFC NoSubs
 9  2  2  33  8   -0.9  0.065 -9.000 -9.000 -999.   40.     26.6  0.0950  0.72  0.53  0.50  336.0  15.0 280.0  2.0    0  0.00  83. 1014.    2 NAD-SFC NoSubs
 9  2  2  33  9   28.6  0.114  0.387  0.014   73.   92.     -4.7  0.0800  0.72  0.30  1.00  315.0  15.0 282.9  2.0    0  0.00  67. 1014.    2 NAD-SFC NoSubs
 9  2  2  33 10   73.1  0.166  0.712  0.012  179.  162.     -5.6  0.0800  0.72  0.23  1.50  316.0  15.0 285.2  2.0    0  0.00  59. 1014.    2 NAD-SFC NoSubs
 9  2  2  33 11  105.7  0.178  0.950  0.010  293.  180.     -4.8  0.0950  0.72  0.20  1.50  331.0  15.0 287.5  2.0    0  0.00  52. 1013.    2 NAD-SFC NoSubs
 9  2  2  33 12  123.8  0.181  1.103  0.008  392.  185.     -4.3  0.0950  0.72  0.20  1.50  336.0  15.0 289.2  2.0    0  0.00  48. 1013.    2 NAD-SFC NoSubs
 9  2  2  33 13  127.2  0.182  1.218  0.007  513.  186.     -4.3  0.0950  0.72  0.19  1.50  353.0  15.0 291.0  2.0    0  0.00  41. 1012.    2 NAD-SFC NoSubs
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 9  2  2  33 14  115.4  0.180  1.244  0.007  602.  183.    -4.5  0.0950  0.72  0.20  1.50  356.0  15.0  292.0  2.0  0  0.00  37.  1011.  2 NAD-SFC NoSubs
 9  2  2  33 15   88.9  0.221  1.178  0.006  664.  249.   -11.0  0.0960  0.72  0.22  2.10   12.0  15.0  292.4  2.0  0  0.00  36.  1011.  2 NAD-SFC NoSubs
 9  2  2  33 16   48.7  0.246  0.986  0.006  708.  292.   -27.5  0.0960  0.72  0.27  2.60   20.0  15.0  292.0  2.0  0  0.00  43.  1011.  2 NAD-SFC NoSubs
 9  2  2  33 17    0.8  0.247  0.246  0.006  707.  295. -1789.9  0.0960  0.72  0.41  3.10   28.0  15.0  291.1  2.0  0  0.00  46.  1011.  2 NAD-SFC NoSubs
 9  2  2  33 18  -14.6  0.175 -9.000 -9.000 -999.  177.    32.9  0.0650  0.72  1.00  2.60   44.0  15.0  289.8  2.0  0  0.00  49.  1011.  2 NAD-SFC NoSubs
 9  2  2  33 19   -4.9  0.101 -9.000 -9.000 -999.   79.    19.1  0.0650  0.72  1.00  1.50   38.0  15.0  288.5  2.0  0  0.00  53.  1011.  2 NAD-SFC NoSubs
 9  2  2  33 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  287.1  2.0  0  0.00  60.  1011.  2 NAD-SFC NoSubs
 9  2  2  33 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  285.9  2.0  0  0.00  66.  1011.  2 NAD-SFC NoSubs
 9  2  2  33 22   -1.2  0.072 -9.000 -9.000 -999.   46.    28.6  0.0650  0.72  1.00  0.50   40.0  15.0  284.9  2.0  0  0.00  71.  1011.  2 NAD-SFC NoSubs
 9  2  2  33 23   -2.9  0.087 -9.000 -9.000 -999.   61.    20.0  0.0960  0.72  1.00  1.00   29.0  15.0  284.2  2.0  0  0.00  73.  1011.  2 NAD-SFC NoSubs
 9  2  2  33 24   -3.0  0.087 -9.000 -9.000 -999.   61.    20.0  0.0960  0.72  1.00  1.00   13.0  15.0  283.8  2.0  0  0.00  73.  1011.  2 NAD-SFC NoSubs
 9  2  3  34  1   -5.5  0.108 -9.000 -9.000 -999.   86.    20.8  0.0950  0.72  1.00  1.50  331.0  15.0  283.4  2.0  0  0.00  74.  1011.  2 NAD-SFC NoSubs
 9  2  3  34  2   -5.5  0.108 -9.000 -9.000 -999.   86.    20.7  0.0950  0.72  1.00  1.50  335.0  15.0  283.0  2.0  0  0.00  75.  1011.  2 NAD-SFC NoSubs
 9  2  3  34  3  -10.1  0.145 -9.000 -9.000 -999.  132.    26.9  0.0800  0.72  1.00  2.10  316.0  15.0  282.8  2.0  0  0.00  75.  1011.  2 NAD-SFC NoSubs
 9  2  3  34  4  -10.1  0.145 -9.000 -9.000 -999.  132.    26.9  0.0800  0.72  1.00  2.10  328.0  15.0  282.2  2.0  0  0.00  76.  1011.  2 NAD-SFC NoSubs
 9  2  3  34  5   -5.5  0.108 -9.000 -9.000 -999.   86.    20.7  0.0950  0.72  1.00  1.50  336.0  15.0  281.8  2.0  0  0.00  76.  1011.  2 NAD-SFC NoSubs
 9  2  3  34  6   -1.3  0.075 -9.000 -9.000 -999.   49.    29.8  0.0950  0.72  1.00  0.50  336.0  15.0  281.4  2.0  0  0.00  76.  1011.  2 NAD-SFC NoSubs
 9  2  3  34  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  281.1  2.0  0  0.00  75.  1011.  2 NAD-SFC NoSubs
 9  2  3  34  8   -0.7  0.056 -9.000 -9.000 -999.   31.    22.7  0.0200  0.72  0.53  0.50  252.0  15.0  281.1  2.0  0  0.00  73.  1011.  2 NAD-SFC NoSubs
 9  2  3  34  9   29.7  0.152  0.389  0.012   71.  142.   -10.6  0.0800  0.72  0.30  1.50  304.0  15.0  283.8  2.0  0  0.00  55.  1011.  2 NAD-SFC NoSubs
 9  2  3  34 10   74.3  0.166  0.688  0.012  158.  162.    -5.5  0.0800  0.72  0.23  1.50  303.0  15.0  285.9  2.0  0  0.00  49.  1010.  2 NAD-SFC NoSubs
 9  2  3  34 11  106.9  0.173  0.931  0.009  272.  172.    -4.4  0.0800  0.72  0.20  1.50  315.0  15.0  288.0  2.0  0  0.00  46.  1010.  2 NAD-SFC NoSubs
 9  2  3  34 12  125.3  0.182  1.109  0.007  392.  186.    -4.3  0.0950  0.72  0.20  1.50  340.0  15.0  290.2  2.0  0  0.00  40.  1009.  2 NAD-SFC NoSubs
 9  2  3  34 13  128.6  0.229  1.244  0.007  538.  263.    -8.4  0.0950  0.72  0.19  2.10  348.0  15.0  291.6  2.0  0  0.00  38.  1008.  2 NAD-SFC NoSubs
 9  2  3  34 14  116.9  0.227  1.279  0.006  644.  259.    -9.0  0.0950  0.72  0.20  2.10  358.0  15.0  292.8  2.0  0  0.00  37.  1007.  2 NAD-SFC NoSubs
 9  2  3  34 15   90.4 -9.000 -9.000 -9.000  725. -999. -99999.0  0.0471  0.72  0.22  0.00    0.0  15.0  293.2  2.0  0  0.00  36.  1007.  2 NAD-SFC NoSubs
 9  2  3  34 16   50.1  0.282  1.023  0.006  767.  360.   -40.3  0.0960  0.72  0.26  3.10    7.0  15.0  292.6  2.0  0  0.00  44.  1006.  2 NAD-SFC NoSubs
 9  2  3  34 17    1.9  0.288  0.343  0.006  767.  371. -1134.1  0.0960  0.72  0.41  3.60   27.0  15.0  291.6  2.0  0  0.00  49.  1006.  2 NAD-SFC NoSubs
 9  2  3  34 18  -21.0  0.211 -9.000 -9.000 -999.  236.    40.4  0.0650  0.72  1.00  3.10   45.0  15.0  290.4  2.0  0  0.00  53.  1006.  2 NAD-SFC NoSubs
 9  2  3  34 19   -9.4  0.139 -9.000 -9.000 -999.  126.    25.7  0.0650  0.72  1.00  2.10   56.0  15.0  289.6  2.0  0  0.00  54.  1007.  2 NAD-SFC NoSubs
 9  2  3  34 20   -4.0  0.089 -9.000 -9.000 -999.   65.    16.2  0.0280  0.72  1.00  1.50  122.0  15.0  288.9  2.0  0  0.00  53.  1007.  2 NAD-SFC NoSubs
 9  2  3  34 21   -3.9  0.088 -9.000 -9.000 -999.   62.    15.7  0.0240  0.72  1.00  1.50  153.0  15.0  288.1  2.0  0  0.00  51.  1007.  2 NAD-SFC NoSubs
 9  2  3  34 22   -4.0  0.090 -9.000 -9.000 -999.   64.    16.1  0.0280  0.72  1.00  1.50  128.0  15.0  287.4  2.0  0  0.00  49.  1007.  2 NAD-SFC NoSubs
 9  2  3  34 23   -2.4  0.078 -9.000 -9.000 -999.   53.    17.9  0.0400  0.72  1.00  1.00   73.0  15.0  286.4  2.0  0  0.00  52.  1007.  2 NAD-SFC NoSubs
 9  2  3  34 24   -9.4  0.139 -9.000 -9.000 -999.  124.    25.5  0.0650  0.72  1.00  2.10   45.0  15.0  285.2  2.0  0  0.00  60.  1007.  2 NAD-SFC NoSubs
 9  2  4  35  1  -24.0  0.229 -9.000 -9.000 -999.  263.    44.9  0.0960  0.72  1.00  3.10   17.0  15.0  284.5  2.0  0  0.00  67.  1007.  2 NAD-SFC NoSubs
 9  2  4  35  2  -24.0  0.229 -9.000 -9.000 -999.  263.    44.8  0.0960  0.72  1.00  3.10   17.0  15.0  283.8  2.0  0  0.00  73.  1007.  2 NAD-SFC NoSubs
 9  2  4  35  3  -16.7  0.189 -9.000 -9.000 -999.  198.    36.5  0.0960  0.72  1.00  2.60    6.0  15.0  283.2  2.0  0  0.00  76.  1007.  2 NAD-SFC NoSubs
 9  2  4  35  4  -10.7  0.150 -9.000 -9.000 -999.  140.    28.4  0.0960  0.72  1.00  2.10   15.0  15.0  282.8  2.0  0  0.00  75.  1007.  2 NAD-SFC NoSubs
 9  2  4  35  5  -10.7  0.150 -9.000 -9.000 -999.  140.    28.4  0.0960  0.72  1.00  2.10   12.0  15.0  282.2  2.0  0  0.00  73.  1007.  2 NAD-SFC NoSubs
 9  2  4  35  6   -5.5  0.109 -9.000 -9.000 -999.   86.    20.8  0.0960  0.72  1.00  1.50    8.0  15.0  281.9  2.0  0  0.00  71.  1008.  2 NAD-SFC NoSubs
 9  2  4  35  7   -5.5  0.109 -9.000 -9.000 -999.   86.    20.8  0.0960  0.72  1.00  1.50    7.0  15.0  281.5  2.0  0  0.00  70.  1008.  2 NAD-SFC NoSubs
 9  2  4  35  8   -4.5  0.107 -9.000 -9.000 -999.   84.    24.4  0.0960  0.72  0.52  1.50    9.0  15.0  281.4  2.0  0  0.00  69.  1008.  2 NAD-SFC NoSubs
 9  2  4  35  9   30.4  0.157  0.386  0.011   68.  149.   -11.4  0.0960  0.72  0.30  1.50   14.0  15.0  282.5  2.0  0  0.00  64.  1008.  2 NAD-SFC NoSubs
 9  2  4  35 10   75.3  0.171  0.696  0.010  161.  170.    -6.0  0.0950  0.72  0.23  1.50  336.0  15.0  285.6  2.0  0  0.00  50.  1008.  2 NAD-SFC NoSubs
 9  2  4  35 11  107.7  0.179  0.948  0.008  284.  181.    -4.7  0.0950  0.72  0.20  1.50  345.0  15.0  287.1  2.0  0  0.00  48.  1007.  2 NAD-SFC NoSubs
 9  2  4  35 12  125.9  0.182  1.126  0.006  408.  186.    -4.3  0.0950  0.72  0.20  1.50  333.0  15.0  288.6  2.0  0  0.00  47.  1006.  2 NAD-SFC NoSubs
 9  2  4  35 13  129.1  0.229  1.268  0.006  567.  263.    -8.4  0.0950  0.72  0.19  2.10  353.0  15.0  289.8  2.0  0  0.00  47.  1006.  2 NAD-SFC NoSubs
 9  2  4  35 14  117.2  0.264  1.309  0.005  686.  326.   -14.1  0.0960  0.72  0.20  2.60    7.0  15.0  290.4  2.0  0  0.00  47.  1005.  2 NAD-SFC NoSubs
 9  2  4  35 15   90.5  0.258  1.252  0.005  777.  315.   -17.1  0.0960  0.72  0.22  2.60   25.0  15.0  290.5  2.0  0  0.00  51.  1005.  2 NAD-SFC NoSubs
 9  2  4  35 16   50.9  0.319  1.055  0.005  826.  433.   -57.2  0.0960  0.72  0.26  3.60   22.0  15.0  291.5  2.0  0  0.00  55.  1004.  2 NAD-SFC NoSubs
 9  2  4  35 17    2.7  0.198  0.397  0.005  828.  219.  -257.0  0.0650  0.72  0.40  2.60   36.0  15.0  291.2  2.0  0  0.00  54.  1004.  2 NAD-SFC NoSubs
 9  2  4  35 18  -22.6  0.213 -9.000 -9.000 -999.  236.    38.3  0.0280  0.72  1.00  3.60  132.0  15.0  291.1  2.0  0  0.00  52.  1004.  2 NAD-SFC NoSubs
 9  2  4  35 19  -32.8  0.307 -9.000 -9.000 -999.  409.    79.2  0.0280  0.72  1.00  5.10  145.0  15.0  290.1  2.0  0  0.00  52.  1004.  2 NAD-SFC NoSubs
 9  2  4  35 20  -32.9  0.307 -9.000 -9.000 -999.  409.    79.0  0.0280  0.72  1.00  5.10  144.0  15.0  289.4  2.0  0  0.00  52.  1004.  2 NAD-SFC NoSubs
 9  2  4  35 21  -32.9  0.307 -9.000 -9.000 -999.  409.    78.9  0.0280  0.72  1.00  5.10  146.0  15.0  289.2  2.0  0  0.00  51.  1005.  2 NAD-SFC NoSubs
 9  2  4  35 22  -25.6  0.239 -9.000 -9.000 -999.  282.    47.6  0.0240  0.72  1.00  4.10  154.0  15.0  289.2  2.0  0  0.00  49.  1006.  2 NAD-SFC NoSubs
 9  2  4  35 23  -15.9  0.177 -9.000 -9.000 -999.  180.    31.4  0.0240  0.72  1.00  3.10  162.0  15.0  288.9  2.0  0  0.00  51.  1006.  3 NAD-SFC NoSubs
 9  2  4  35 24   -7.1  0.117 -9.000 -9.000 -999.   96.    20.1  0.0240  0.72  1.00  2.10  168.0  15.0  288.2  2.0  0  0.00  56.  1006.  3 NAD-SFC NoSubs
 9  2  5  36  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  287.6  2.0  0  0.00  62.  1006.  2 NAD-SFC NoSubs
 9  2  5  36  2   -1.2  0.073 -9.000 -9.000 -999.   47.    29.1  0.0800  0.72  1.00  0.50  329.0  15.0  287.1  2.0  0  0.00  66.  1007.  2 NAD-SFC NoSubs
 9  2  5  36  3   -1.1  0.069 -9.000 -9.000 -999.   43.    27.5  0.0420  0.72  1.00  0.50  272.0  15.0  286.8  2.0  0  0.00  68.  1007.  2 NAD-SFC NoSubs
 9  2  5  36  4   -2.6  0.082 -9.000 -9.000 -999.   56.    18.9  0.0650  0.72  1.00  1.00   32.0  15.0  286.0  2.0  0  0.00  71.  1007.  3 NAD-SFC NoSubs
 9  2  5  36  5  -14.5  0.175 -9.000 -9.000 -999.  176.    33.1  0.0650  0.72  1.00  2.60   39.0  15.0  284.9  2.0  0  0.00  77.  1007.  3 NAD-SFC NoSubs
 9  2  5  36  6  -26.4  0.248 -9.000 -9.000 -999.  296.    51.8  0.0650  0.72  1.00  3.60   46.0  15.0  284.1  2.0  0  0.00  81.  1008.  3 NAD-SFC NoSubs
 9  2  5  36  7  -26.5  0.248 -9.000 -9.000 -999.  296.    51.8  0.0650  0.72  1.00  3.60   49.0  15.0  283.8  2.0  0  0.00  82.  1007.  3 NAD-SFC NoSubs
 9  2  5  36  8  -14.1  0.215 -9.000 -9.000 -999.  239.    63.0  0.0650  0.72  0.51  3.10   58.0  15.0  283.8  2.0  0  0.00  81.  1007.  3 NAD-SFC NoSubs
 9  2  5  36  9   33.7  0.103  0.518  0.005  148.   86.    -2.9  0.0400  0.72  0.30  1.00   70.0  15.0  286.2  2.0  0  0.00  70.  1006.  3 NAD-SFC NoSubs
 9  2  5  36 10   78.3 -9.000 -9.000 -9.000  378. -999. -99999.0  0.0471  0.72  0.23  0.00    0.0  15.0  288.8  2.0  0  0.00  58.  1006.  3 NAD-SFC NoSubs
 9  2  5  36 11  110.6  0.069  1.245  0.005  625.   44.    -1.0  0.0220  0.72  0.20  0.50  212.0  15.0  290.4  2.0  0  0.00  50.  1005.  3 NAD-SFC NoSubs
 9  2  5  36 12  128.6  0.142  1.458  0.005  863.  129.    -2.0  0.0220  0.72  0.19  1.50  192.0  15.0  291.6  2.0  0  0.00  44.  1004.  3 NAD-SFC NoSubs
 9  2  5  36 13  131.8  0.180  1.583  0.005 1077.  184.    -4.0  0.0220  0.72  0.19  2.10  195.0  15.0  292.4  2.0  0  0.00  40.  1002.  3 NAD-SFC NoSubs
 9  2  5  36 14  119.9  0.238  1.613  0.005 1253.  279.   -10.1  0.0220  0.72  0.20  3.10  206.0  15.0  292.8  2.0  0  0.00  39.  1002.  3 NAD-SFC NoSubs
 9  2  5  36 15   93.2  0.172  1.528  0.005 1368.  172.    -4.9  0.0200  0.72  0.21  2.10  254.0  15.0  292.0  2.0  0  0.25  48.  1001.  3 NAD-SFC NoSubs
 9  2  5  36 16   52.6  0.210  1.278  0.005 1419.  231.   -15.7  0.0950  0.72  0.26  2.10  355.0  15.0  290.8  2.0  0  0.51  56.  1001.  5 NAD-SFC NoSubs
 9  2  5  36 17    6.9  0.332  0.651  0.005 1420.  459.  -471.6  0.0960  0.72  0.40  4.10   13.0  15.0  288.5  2.0  0  1.02  74.  1001.  5 NAD-SFC NoSubs
 9  2  5  36 18  -18.7  0.250 -9.000 -9.000 -999.  303.    74.9  0.0650  0.72  1.00  3.60   37.0  15.0  287.2  2.0  0  1.27  84.  1002.  8 NAD-SFC NoSubs
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9	2	5	36	19	-11.9	0.215	-9.000	-9.000	-999.	240.	75.4	0.0650	0.72	1.00	3.10	55.0	15.0	286.8	2.0	0	1.27	88.	1003.	10	NAD-SFC NoSubs
9	2	5	36	20	-9.9	0.179	-9.000	-9.000	-999.	182.	52.1	0.0650	0.72	1.00	2.60	52.0	15.0	286.5	2.0	0	1.27	92.	1003.	10	NAD-SFC NoSubs
9	2	5	36	21	-4.2	0.099	-9.000	-9.000	-999.	77.	20.8	0.0650	0.72	1.00	1.50	59.0	15.0	286.2	2.0	0	1.02	92.	1004.	7	NAD-SFC NoSubs
9	2	5	36	22	-0.9	0.062	-9.000	-9.000	-999.	37.	25.1	0.0310	0.72	1.00	0.50	102.0	15.0	286.2	2.0	0	0.51	91.	1004.	6	NAD-SFC NoSubs
9	2	5	36	23	-0.9	0.062	-9.000	-9.000	-999.	37.	24.9	0.0220	0.72	1.00	0.50	234.0	15.0	286.1	2.0	0	0.00	89.	1004.	5	NAD-SFC NoSubs
9	2	5	36	24	-2.0	0.071	-9.000	-9.000	-999.	45.	16.3	0.0220	0.72	1.00	1.00	237.0	15.0	285.8	2.0	0	0.00	89.	1004.	5	NAD-SFC NoSubs
9	2	6	37	1	-1.9	0.070	-9.000	-9.000	-999.	45.	16.1	0.0200	0.72	1.00	1.00	248.0	15.0	285.2	2.0	0	0.00	90.	1004.	5	NAD-SFC NoSubs
9	2	6	37	2	-1.0	0.066	-9.000	-9.000	-999.	40.	26.4	0.0420	0.72	1.00	0.50	293.0	15.0	284.8	2.0	0	0.00	92.	1004.	5	NAD-SFC NoSubs
9	2	6	37	3	-0.9	0.064	-9.000	-9.000	-999.	39.	25.7	0.0400	0.72	1.00	0.50	60.0	15.0	284.2	2.0	0	0.00	94.	1004.	6	NAD-SFC NoSubs
9	2	6	37	4	-2.2	0.075	-9.000	-9.000	-999.	50.	17.5	0.0400	0.72	1.00	1.00	66.0	15.0	283.8	2.0	0	0.00	97.	1004.	5	NAD-SFC NoSubs
9	2	6	37	5	-4.1	0.093	-9.000	-9.000	-999.	68.	17.6	0.0400	0.72	1.00	1.50	68.0	15.0	283.1	2.0	0	0.00	100.	1004.	5	NAD-SFC NoSubs
9	2	6	37	6	-12.2	0.160	-9.000	-9.000	-999.	154.	30.2	0.0400	0.72	1.00	2.60	67.0	15.0	282.1	2.0	0	0.00	100.	1004.	5	NAD-SFC NoSubs
9	2	6	37	7	-11.4	0.153	-9.000	-9.000	-999.	144.	28.3	0.0310	0.72	1.00	2.60	104.0	15.0	281.9	2.0	0	0.00	100.	1004.	5	NAD-SFC NoSubs
9	2	6	37	8	-12.7	0.220	-9.000	-9.000	-999.	248.	75.2	0.0310	0.72	0.51	3.60	109.0	15.0	282.6	2.0	0	0.00	95.	1004.	4	NAD-SFC NoSubs
9	2	6	37	9	35.3	0.285	0.632	0.005	256.	366.	-58.9	0.0280	0.72	0.29	4.10	124.0	15.0	285.8	2.0	0	0.00	67.	1003.	4	NAD-SFC NoSubs
9	2	6	37	10	79.1	0.239	1.021	0.005	482.	281.	-15.5	0.0280	0.72	0.23	3.10	128.0	15.0	287.8	2.0	0	0.00	56.	1003.	3	NAD-SFC NoSubs
9	2	6	37	11	111.4	0.184	1.306	0.005	715.	190.	-5.0	0.0280	0.72	0.20	2.10	148.0	15.0	289.4	2.0	0	0.00	48.	1002.	3	NAD-SFC NoSubs
9	2	6	37	12	128.2	0.182	1.481	0.005	905.	187.	-4.2	0.0240	0.72	0.19	2.10	156.0	15.0	290.5	2.0	0	0.00	45.	1000.	4	NAD-SFC NoSubs
9	2	6	37	13	131.2	0.269	1.573	0.005	1058.	335.	-13.3	0.0220	0.72	0.19	3.60	194.0	15.0	290.9	2.0	0	0.00	46.	999.	4	NAD-SFC NoSubs
9	2	6	37	14	119.4	0.238	1.579	0.005	1176.	280.	-10.1	0.0220	0.72	0.20	3.10	199.0	15.0	290.8	2.0	0	0.00	48.	998.	4	NAD-SFC NoSubs
9	2	6	37	15	85.4	0.203	1.442	0.005	1251.	220.	-8.7	0.0220	0.72	0.21	2.60	235.0	15.0	289.2	2.0	0	0.51	63.	998.	6	NAD-SFC NoSubs
9	2	6	37	16	52.7	0.160	1.241	0.005	1292.	154.	-7.0	0.0800	0.72	0.26	1.50	322.0	15.0	287.5	2.0	0	1.78	79.	998.	5	NAD-SFC NoSubs
9	2	6	37	17	7.4	0.219	0.645	0.005	1297.	246.	-127.5	0.0950	0.72	0.40	2.60	342.0	15.0	286.9	2.0	0	1.02	84.	998.	5	NAD-SFC NoSubs
9	2	6	37	18	-15.6	0.190	-9.000	-9.000	-999.	199.	39.3	0.0960	0.72	1.00	2.60	2.0	15.0	286.6	2.0	0	1.27	85.	998.	5	NAD-SFC NoSubs
9	2	6	37	19	-15.2	0.191	-9.000	-9.000	-999.	200.	40.8	0.0960	0.72	1.00	2.60	28.0	15.0	286.5	2.0	0	1.27	84.	998.	6	NAD-SFC NoSubs
9	2	6	37	20	-7.5	0.128	-9.000	-9.000	-999.	110.	24.7	0.0400	0.72	1.00	2.10	81.0	15.0	286.8	2.0	0	1.02	82.	999.	6	NAD-SFC NoSubs
9	2	6	37	21	-6.4	0.123	-9.000	-9.000	-999.	103.	25.8	0.0310	0.72	1.00	2.10	119.0	15.0	286.8	2.0	0	1.02	79.	999.	8	NAD-SFC NoSubs
9	2	6	37	22	-10.2	0.152	-9.000	-9.000	-999.	142.	30.3	0.0280	0.72	1.00	2.60	122.0	15.0	286.2	2.0	0	1.27	79.	1000.	7	NAD-SFC NoSubs
9	2	6	37	23	-3.8	0.089	-9.000	-9.000	-999.	65.	16.8	0.0310	0.72	1.00	1.50	117.0	15.0	285.9	2.0	0	1.02	81.	1000.	5	NAD-SFC NoSubs
9	2	6	37	24	-2.1	0.073	-9.000	-9.000	-999.	48.	16.9	0.0310	0.72	1.00	1.00	117.0	15.0	285.8	2.0	0	0.51	81.	1000.	5	NAD-SFC NoSubs
9	2	7	38	1	-7.7	0.127	-9.000	-9.000	-999.	109.	23.8	0.0400	0.72	1.00	2.10	88.0	15.0	285.5	2.0	0	0.00	79.	999.	5	NAD-SFC NoSubs
9	2	7	38	2	-21.0	0.217	-9.000	-9.000	-999.	243.	43.7	0.0310	0.72	1.00	3.60	95.0	15.0	285.1	2.0	0	0.00	75.	999.	5	NAD-SFC NoSubs
9	2	7	38	3	-16.3	0.185	-9.000	-9.000	-999.	192.	34.9	0.0310	0.72	1.00	3.10	104.0	15.0	284.8	2.0	0	0.00	72.	1000.	5	NAD-SFC NoSubs
9	2	7	38	4	-3.9	0.090	-9.000	-9.000	-999.	69.	16.6	0.0310	0.72	1.00	1.50	108.0	15.0	284.2	2.0	0	0.00	71.	999.	4	NAD-SFC NoSubs
9	2	7	38	5	-1.0	0.065	-9.000	-9.000	-999.	40.	26.2	0.0310	0.72	1.00	0.50	91.0	15.0	283.8	2.0	0	0.00	74.	1000.	4	NAD-SFC NoSubs
9	2	7	38	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	283.6	2.0	0	0.00	76.	1000.	5	NAD-SFC NoSubs
9	2	7	38	7	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	283.6	2.0	0	0.00	78.	1001.	6	NAD-SFC NoSubs
9	2	7	38	8	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	0.50	0.00	0.0	15.0	283.5	2.0	0	0.00	81.	1002.	10	NAD-SFC NoSubs
9	2	7	38	9	4.7	0.057	0.173	0.005	39.	32.	-3.4	0.0650	0.72	0.29	0.50	34.0	15.0	283.4	2.0	0	0.51	85.	1002.	10	NAD-SFC NoSubs
9	2	7	38	10	16.0	0.153	0.368	0.005	111.	144.	-20.3	0.0240	0.72	0.22	2.10	153.0	15.0	283.8	2.0	0	0.51	83.	1003.	10	NAD-SFC NoSubs
9	2	7	38	11	100.7	0.182	1.317	0.005	812.	187.	-5.4	0.0280	0.72	0.20	2.10	138.0	15.0	284.1	2.0	0	0.51	79.	1003.	6	NAD-SFC NoSubs
9	2	7	38	12	104.2	-9.000	-9.000	-9.000	1011.	-999.	-99999.0	0.0471	0.72	0.19	0.00	0.0	15.0	284.1	2.0	0	0.76	80.	1002.	7	NAD-SFC NoSubs
9	2	7	38	13	126.5	-9.000	-9.000	-9.000	1137.	-999.	-99999.0	0.0471	0.72	0.19	0.00	0.0	15.0	284.4	2.0	0	0.51	78.	1002.	5	NAD-SFC NoSubs
9	2	7	38	14	118.9	-9.000	-9.000	-9.000	1245.	-999.	-99999.0	0.0471	0.72	0.20	0.00	0.0	15.0	285.1	2.0	0	0.00	72.	1001.	4	NAD-SFC NoSubs
9	2	7	38	15	93.1	0.135	1.510	0.005	1323.	119.	-2.4	0.0960	0.72	0.21	1.00	11.0	15.0	285.5	2.0	0	0.00	70.	1001.	4	NAD-SFC NoSubs
9	2	7	38	16	54.2	0.126	1.282	0.005	1387.	108.	-3.3	0.0950	0.72	0.26	1.00	351.0	15.0	285.6	2.0	0	0.00	72.	1001.	4	NAD-SFC NoSubs
9	2	7	38	17	6.9	0.102	0.647	0.005	1396.	78.	-13.6	0.0950	0.72	0.39	1.00	334.0	15.0	285.2	2.0	0	0.00	74.	1001.	4	NAD-SFC NoSubs
9	2	7	38	18	-1.1	0.071	-9.000	-9.000	-999.	46.	28.5	0.0800	0.72	1.00	0.50	303.0	15.0	284.9	2.0	0	0.00	76.	1001.	4	NAD-SFC NoSubs
9	2	7	38	19	-1.1	0.070	-9.000	-9.000	-999.	44.	28.1	0.0800	0.72	1.00	0.50	318.0	15.0	284.4	2.0	0	0.00	79.	1002.	5	NAD-SFC NoSubs
9	2	7	38	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	284.1	2.0	0	0.00	80.	1002.	5	NAD-SFC NoSubs
9	2	7	38	21	-1.2	0.073	-9.000	-9.000	-999.	47.	29.0	0.0950	0.72	1.00	0.50	330.0	15.0	283.9	2.0	0	0.00	82.	1002.	4	NAD-SFC NoSubs
9	2	7	38	22	-1.1	0.072	-9.000	-9.000	-999.	46.	28.6	0.0800	0.72	1.00	0.50	315.0	15.0	283.6	2.0	0	0.00	84.	1003.	4	NAD-SFC NoSubs
9	2	7	38	23	-4.2	0.094	-9.000	-9.000	-999.	69.	17.6	0.0420	0.72	1.00	1.50	293.0	15.0	283.4	2.0	0	0.00	86.	1003.	4	NAD-SFC NoSubs
9	2	7	38	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	283.2	2.0	0	0.00	87.	1003.	4	NAD-SFC NoSubs
9	2	8	39	1	-0.9	0.065	-9.000	-9.000	-999.	39.	25.8	0.0220	0.72	1.00	0.50	200.0	15.0	282.9	2.0	0	0.00	88.	1003.	3	NAD-SFC NoSubs
9	2	8	39	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	282.2	2.0	0	0.00	92.	1003.	4	NAD-SFC NoSubs
9	2	8	39	3	-4.2	0.093	-9.000	-9.000	-999.	69.	17.4	0.0400	0.72	1.00	1.50	85.0	15.0	281.5	2.0	0	0.00	96.	1003.	4	NAD-SFC NoSubs
9	2	8	39	4	-1.1	0.070	-9.000	-9.000	-999.	45.	28.1	0.0650	0.72	1.00	0.50	31.0	15.0	280.9	2.0	0	0.00	99.	1004.	4	NAD-SFC NoSubs
9	2	8	39	5	-0.9	0.063	-9.000	-9.000	-999.	38.	25.3	0.0200	0.72	1.00	0.50	250.0	15.0	280.2	2.0	0	0.00	100.	1004.	4	NAD-SFC NoSubs
9	2	8	39	6	-0.9	0.064	-9.000	-9.000	-999.	39.	25.6	0.0220	0.72	1.00	0.50	222.0	15.0	278.9	2.0	0	0.00	100.	1005.	4	NAD-SFC NoSubs
9	2	8	39	7	-0.9	0.064	-9.000	-9.000	-999.	39.	25.6	0.0220	0.72	1.00	0.50	211.0	15.0	278.8	2.0	0	0.00	100.	1005.	4	NAD-SFC NoSubs
9	2	8	39	8	-1.1	0.058	-9.000	-9.000	-999.	34.	15.5	0.0220	0.72	0.50	1.00	195.0	15.0	279.6	2.0	0	0.00	99.	1006.	5	NAD-SFC NoSubs
9	2	8	39	9	36.5	0.125	0.553	0.005	166.	107.	-4.9	0.0220	0.72	0.29	1.50	231.0	15.0	282.2	2.0	0	0.00	83.	1006.	4	NAD-SFC NoSubs
9	2	8	39	10	80.1	0.103	0.936	0.005	367.	79.	-1.2	0.0220	0.72	0.22	1.00	214.0	15.0	284.2	2.0	0	0.00	74.	1006.	4	NAD-SFC NoSubs
9	2	8	39	11	111.7	0.069	1.228	0.005	595.	44.	-1.0	0.0220	0.72	0.20	0.50	206.0	15.0	285.6	2.0	0	0.00	67.	1006.	4	NAD-SFC NoSubs
9	2	8	39	12	125.4	0.070	1.402	0.005	789.	45.	-1.0	0.0220	0.72	0.19	0.50	233.0	15.0	286.8	2.0	0	0.00	61.	1005.	5	NAD-SFC NoSubs
9	2	8	39	13	30.5	-9.000	-9.000	-9.000	831.	-999.	-99999.0	0.0471	0.72	0.19	0.00	0.0	15.0	287.4	2.0	0	0.00	57.	1004.	10	NAD-SFC NoSubs
9	2	8	39	14	82.2	-9.000	-9.000	-9.000	933.	-999.	-99999.0	0.0471	0.72	0.20	0.00	0.0	15.0	287.9	2.0	0	0.00	54.	1004.	8	NAD-SFC NoSubs
9	2	8	39	15	78.3	0.074	1.313	0.005	1034.	48.	-1.0	0.0420	0.72	0.21	0.50	272.0	15.0	288.1	2.0	0	0.00	52.	1003.	7	NAD-SFC NoSubs
9	2	8	39	16	38.7	0.210	1.055	0.005	1085.	232.	-21.5	0.0420	0.72	0.25	2.60	273.0	15.0	287.9	2.0	0	0.00	56.	1003.	8	NAD-SFC NoSubs
9	2	8	39	17	8.5	0.224	0.639	0.005	1094.	254.	-117.5	0.0420	0.72	0.39	3.10	278.0	15.0	286.9	2.0	0	0.00	67.	1003.	7	NAD-SFC NoSubs
9	2	8	39	18	-17.1	0.196	-9.000	-9.000	-999.	208.	39.3	0.0420	0.72	1.00	3.10	279.0	15.0	286.2	2.0	0	0.00	71.	1003.	6	NAD-SFC NoSubs
9	2	8	39	19	-14.6	0.173	-9.000	-9.000	-999.	172.	31.4	0.0200	0.72	1.00	3.10	265.0	15.0	285.4	2.0	0	0.00	76.	1003.	5	NAD-SFC NoSubs
9	2	8	39	20	-15.0	0.172	-9.000	-9.000	-999.	171.	30.5	0.0200	0.72	1.00	3.10	247.0	15.0	284.9	2.0	0	0.00	79.	1003.	4	NAD-SFC NoSubs
9	2	8	39	21	-15.0	0.172	-9.000	-9.000	-999.	171.	30.5	0.0200	0.72	1.00	3.10	263.0	15.0	284.5	2.0	0	0.00	81.	1003.	4	NAD-SFC NoSubs
9	2	8	39	22	-15.0	0.172	-9.000	-9.000	-999.	171.	30.4	0.0200	0.72	1.00	3.10	249.0	15.0	284.2	2.0	0	0.00	83.	1003.	4	NAD-SFC NoSubs
9	2	8	39	23	-10.6	0.144	-9.000	-9.000	-999.	132.	25.3	0.0220	0.72	1.00	2.60	226.0	15.0	284.2	2.0	0	0.00	83.	1003.	4	NAD-SFC NoSubs

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 9  2  8  39 24   -6.7  0.115 -9.000 -9.000 -999.   94.     20.5  0.0220  0.72  1.00   2.10  212.0  15.0  284.1   2.0    0   0.00   83.  1002.     5 NAD-SFC NoSubs
 9  2  9  40  1  -10.6  0.144 -9.000 -9.000 -999.  132.     25.3  0.0220  0.72  1.00   2.60  229.0  15.0  283.8   2.0    0   0.00   85.  1002.     4 NAD-SFC NoSubs
 9  2  9  40  2  -15.2  0.172 -9.000 -9.000 -999.  171.     29.7  0.0200  0.72  1.00   3.10  254.0  15.0  283.4   2.0    0   0.00   86.  1001.     3 NAD-SFC NoSubs
 9  2  9  40  3  -26.8  0.262 -9.000 -9.000 -999.  321.     59.8  0.0200  0.72  1.00   4.60  256.0  15.0  283.4   2.0    0   0.00   86.  1001.     4 NAD-SFC NoSubs
 9  2  9  40  4  -29.8  0.291 -9.000 -9.000 -999.  378.     74.1  0.0200  0.72  1.00   5.10  267.0  15.0  283.2   2.0    0   0.00   83.  1001.     4 NAD-SFC NoSubs
 9  2  9  40  5  -31.5  0.296 -9.000 -9.000 -999.  386.     73.4  0.0420  0.72  1.00   4.60  281.0  15.0  282.9   2.0    0   0.00   82.  1001.     3 NAD-SFC NoSubs
 9  2  9  40  6  -31.5  0.296 -9.000 -9.000 -999.  386.     73.3  0.0420  0.72  1.00   4.60  278.0  15.0  282.5   2.0    0   0.00   81.  1002.     3 NAD-SFC NoSubs
 9  2  9  40  7  -28.0  0.262 -9.000 -9.000 -999.  323.     57.6  0.0420  0.72  1.00   4.10  276.0  15.0  282.2   2.0    0   0.00   79.  1003.     3 NAD-SFC NoSubs
 9  2  9  40  8  -14.7  0.266 -9.000 -9.000 -999.  329.    114.6  0.0420  0.72  0.49   4.10  277.0  15.0  282.1   2.0    0   0.00   78.  1003.     3 NAD-SFC NoSubs
 9  2  9  40  9   36.9  0.471  0.683  0.005  309.  775.   -253.1  0.0420  0.72  0.29   6.70  290.0  15.0  282.9   2.0    0   0.00   69.  1004.     3 NAD-SFC NoSubs
 9  2  9  40 10   81.2  0.610  1.135  0.005  646. 1143.   -250.8  0.0800  0.72  0.22   7.70  301.0  15.0  284.0   2.0    0   0.00   56.  1004.     4 NAD-SFC NoSubs
 9  2  9  40 11  112.6  0.581  1.407  0.005  888. 1064.   -155.7  0.0800  0.72  0.20   7.20  311.0  15.0  284.6   2.0    0   0.25   47.  1004.     4 NAD-SFC NoSubs
 9  2  9  40 12  131.3  0.549  1.598  0.005 1114.  977.   -112.4  0.0800  0.72  0.19   6.70  324.0  15.0  285.2   2.0    0   0.00   42.  1003.     3 NAD-SFC NoSubs
 9  2  9  40 13  134.3  0.514  1.699  0.005 1309.  886.    -90.3  0.0800  0.72  0.19   6.20  319.0  15.0  285.2   2.0    0   0.00   42.  1003.     3 NAD-SFC NoSubs
 9  2  9  40 14  121.2  0.511  1.736  0.005 1547.  877.    -98.6  0.0800  0.72  0.20   6.20  316.0  15.0  284.8   2.0    0   0.25   45.  1003.     4 NAD-SFC NoSubs
 9  2  9  40 15   95.2  0.506  1.661  0.005 1725.  863.   -121.5  0.0800  0.72  0.21   6.20  317.0  15.0  284.5   2.0    0   0.51   48.  1003.     4 NAD-SFC NoSubs
 9  2  9  40 16   56.1  0.343  1.412  0.005 1796.  503.    -64.1  0.0420  0.72  0.25   4.60  298.0  15.0  283.9   2.0    0   0.00   56.  1004.     4 NAD-SFC NoSubs
 9  2  9  40 17    8.3  0.359  0.749  0.005 1802.  516.   -496.3  0.0800  0.72  0.38   4.60  312.0  15.0  282.9   2.0    0   0.00   63.  1004.     4 NAD-SFC NoSubs
 9  2  9  40 18  -38.4  0.372 -9.000 -9.000 -999.  545.    120.2  0.0800  0.72  1.00   5.10  317.0  15.0  281.9   2.0    0   0.00   66.  1005.     4 NAD-SFC NoSubs
 9  2  9  40 19  -38.6  0.372 -9.000 -9.000 -999.  545.    119.8  0.0800  0.72  1.00   5.10  327.0  15.0  280.9   2.0    0   0.00   69.  1006.     4 NAD-SFC NoSubs
 9  2  9  40 20  -34.8  0.334 -9.000 -9.000 -999.  465.     96.4  0.0800  0.72  1.00   4.60  329.0  15.0  280.2   2.0    0   0.00   70.  1007.     4 NAD-SFC NoSubs
 9  2  9  40 21  -30.9  0.296 -9.000 -9.000 -999.  388.     75.7  0.0800  0.72  1.00   4.10  326.0  15.0  279.9   2.0    0   0.00   72.  1008.     4 NAD-SFC NoSubs
 9  2  9  40 22  -27.1  0.259 -9.000 -9.000 -999.  316.     57.5  0.0800  0.72  1.00   3.60  325.0  15.0  279.1   2.0    0   0.00   76.  1009.     4 NAD-SFC NoSubs
 9  2  9  40 23  -22.6  0.220 -9.000 -9.000 -999.  249.     42.5  0.0800  0.72  1.00   3.10  305.0  15.0  278.4   2.0    0   0.00   78.  1009.     3 NAD-SFC NoSubs
 9  2  9  40 24   -8.3  0.128 -9.000 -9.000 -999.  113.     22.6  0.0420  0.72  1.00   2.10  291.0  15.0  277.8   2.0    0   0.00   80.  1009.     3 NAD-SFC NoSubs
 9  2 10  41  1   -0.9  0.065 -9.000 -9.000 -999.   41.     25.8  0.0200  0.72  1.00   0.50  255.0  15.0  277.5   2.0    0   0.00   80.  1010.     3 NAD-SFC NoSubs
 9  2 10  41  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  277.2   2.0    0   0.00   80.  1010.     3 NAD-SFC NoSubs
 9  2 10  41  3   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0420  0.72  1.00   0.50  290.0  15.0  276.8   2.0    0   0.00   82.  1010.     3 NAD-SFC NoSubs
 9  2 10  41  4   -2.5  0.079 -9.000 -9.000 -999.   53.     18.0  0.0420  0.72  1.00   1.00  281.0  15.0  276.2   2.0    0   0.00   83.  1010.     3 NAD-SFC NoSubs
 9  2 10  41  5   -3.8  0.086 -9.000 -9.000 -999.   61.     15.2  0.0200  0.72  1.00   1.50  266.0  15.0  275.8   2.0    0   0.00   85.  1010.     3 NAD-SFC NoSubs
 9  2 10  41  6  -13.1  0.161 -9.000 -9.000 -999.  155.     28.7  0.0420  0.72  1.00   2.60  285.0  15.0  275.4   2.0    0   0.00   85.  1010.     3 NAD-SFC NoSubs
 9  2 10  41  7  -25.9  0.228 -9.000 -9.000 -999.  262.     41.4  0.0420  0.72  1.00   3.60  281.0  15.0  275.1   2.0    0   0.00   84.  1011.     2 NAD-SFC NoSubs
 9  2 10  41  8  -12.4  0.198 -9.000 -9.000 -999.  212.     56.7  0.0420  0.72  0.48   3.10  289.0  15.0  275.4   2.0    0   0.00   84.  1012.     2 NAD-SFC NoSubs
 9  2 10  41  9   35.6  0.197  0.731  0.005  396.  210.    -19.5  0.0800  0.72  0.28   2.10  317.0  15.0  277.0   2.0    0   0.00   75.  1012.     2 NAD-SFC NoSubs
 9  2 10  41 10   80.5  0.083  1.043  0.005  509.   67.     -1.0  0.0800  0.72  0.22   0.50  300.0  15.0  278.4   2.0    0   0.00   66.  1013.     2 NAD-SFC NoSubs
 9  2 10  41 11  113.0 -9.000 -9.000 -9.000  635. -999. -99999.0  0.0471  0.72  0.20   0.00    0.0  15.0  279.8   2.0    0   0.00   58.  1013.     2 NAD-SFC NoSubs
 9  2 10  41 12  131.1  0.079  1.422  0.005  792.   54.     -1.0  0.0420  0.72  0.19   0.50  282.0  15.0  281.0   2.0    0   0.00   50.  1012.     2 NAD-SFC NoSubs
 9  2 10  41 13  134.2  0.121  1.513  0.005  932.  102.     -1.2  0.0420  0.72  0.19   1.00  294.0  15.0  281.9   2.0    0   0.00   45.  1012.     2 NAD-SFC NoSubs
 9  2 10  41 14  122.3  0.135  1.520  0.006 1038.  119.     -1.8  0.0800  0.72  0.20   1.00  309.0  15.0  282.6   2.0    0   0.00   41.  1012.     2 NAD-SFC NoSubs
 9  2 10  41 15   95.8  0.171  1.434  0.006 1112.  169.     -4.7  0.0800  0.72  0.21   1.50  323.0  15.0  283.1   2.0    0   0.00   38.  1011.     2 NAD-SFC NoSubs
 9  2 10  41 16   55.6  0.166  1.211  0.006 1153.  162.     -7.4  0.0950  0.72  0.25   1.50  345.0  15.0  283.2   2.0    0   0.00   38.  1011.     2 NAD-SFC NoSubs
 9  2 10  41 17    6.3  0.137  0.586  0.006 1156.  122.    -37.3  0.0950  0.72  0.38   1.50  348.0  15.0  282.9   2.0    0   0.00   42.  1011.     2 NAD-SFC NoSubs
 9  2 10  41 18  -10.8  0.150 -9.000 -9.000 -999.  140.     28.4  0.0960  0.72  1.00   2.10   24.0  15.0  282.0   2.0    0   0.00   46.  1011.     2 NAD-SFC NoSubs
 9  2 10  41 19   -9.4  0.139 -9.000 -9.000 -999.  124.     25.6  0.0650  0.72  1.00   2.10   50.0  15.0  280.9   2.0    0   0.00   51.  1012.     3 NAD-SFC NoSubs
 9  2 10  41 20   -8.2  0.127 -9.000 -9.000 -999.  109.     22.4  0.0400  0.72  1.00   2.10   87.0  15.0  279.8   2.0    0   0.00   55.  1012.     3 NAD-SFC NoSubs
 9  2 10  41 21  -11.8  0.150 -9.000 -9.000 -999.  139.     25.6  0.0280  0.72  1.00   2.60  135.0  15.0  278.8   2.0    0   0.00   59.  1012.     2 NAD-SFC NoSubs
 9  2 10  41 22  -16.4  0.177 -9.000 -9.000 -999.  178.     30.3  0.0240  0.72  1.00   3.10  154.0  15.0  277.9   2.0    0   0.00   63.  1012.     2 NAD-SFC NoSubs
 9  2 10  41 23  -11.9  0.150 -9.000 -9.000 -999.  139.     25.5  0.0280  0.72  1.00   2.60  147.0  15.0  277.2   2.0    0   0.00   66.  1012.     2 NAD-SFC NoSubs
 9  2 10  41 24  -16.5  0.177 -9.000 -9.000 -999.  178.     30.2  0.0240  0.72  1.00   3.10  151.0  15.0  276.8   2.0    0   0.00   68.  1012.     2 NAD-SFC NoSubs
 9  2 11  42  1  -17.1  0.181 -9.000 -9.000 -999.  185.     31.3  0.0280  0.72  1.00   3.10  146.0  15.0  276.2   2.0    0   0.00   70.  1012.     2 NAD-SFC NoSubs
 9  2 11  42  2  -16.5  0.177 -9.000 -9.000 -999.  178.     30.1  0.0240  0.72  1.00   3.10  153.0  15.0  276.1   2.0    0   0.00   71.  1012.     2 NAD-SFC NoSubs
 9  2 11  42  3  -17.1  0.181 -9.000 -9.000 -999.  185.     31.3  0.0280  0.72  1.00   3.10  144.0  15.0  276.2   2.0    0   0.00   70.  1012.     2 NAD-SFC NoSubs
 9  2 11  42  4  -16.9  0.181 -9.000 -9.000 -999.  185.     31.8  0.0280  0.72  1.00   3.10  142.0  15.0  276.5   2.0    0   0.00   68.  1012.     3 NAD-SFC NoSubs
 9  2 11  42  5  -16.9  0.181 -9.000 -9.000 -999.  185.     31.8  0.0280  0.72  1.00   3.10  137.0  15.0  276.8   2.0    0   0.00   65.  1012.     3 NAD-SFC NoSubs
 9  2 11  42  6  -16.9  0.181 -9.000 -9.000 -999.  185.     31.8  0.0280  0.72  1.00   3.10  126.0  15.0  276.8   2.0    0   0.00   63.  1012.     3 NAD-SFC NoSubs
 9  2 11  42  7  -16.3  0.182 -9.000 -9.000 -999.  186.     33.5  0.0280  0.72  1.00   3.10  133.0  15.0  276.8   2.0    0   0.00   62.  1012.     5 NAD-SFC NoSubs
 9  2 11  42  8   -5.1  0.156 -9.000 -9.000 -999.  148.     67.8  0.0280  0.72  0.48   2.60  128.0  15.0  277.1   2.0    0   0.00   60.  1012.     8 NAD-SFC NoSubs
 9  2 11  42  9    4.9  0.146  0.166  0.007   33.  134.    -57.5  0.0280  0.72  0.28   2.10  143.0  15.0  278.6   2.0    0   0.00   54.  1012.    10 NAD-SFC NoSubs
 9  2 11  42 10   16.4  0.090  0.321  0.009   73.   66.     -4.0  0.0280  0.72  0.22   1.00  145.0  15.0  280.0   2.0    0   0.00   48.  1012.    10 NAD-SFC NoSubs
 9  2 11  42 11   77.3  0.069  0.813  0.006  251.   43.     -1.0  0.0280  0.72  0.20   0.50  131.0  15.0  281.6   2.0    0   0.00   42.  1012.     8 NAD-SFC NoSubs
 9  2 11  42 12  128.1 -9.000 -9.000 -9.000  472. -999. -99999.0  0.0471  0.72  0.19   0.00    0.0  15.0  283.8   2.0    0   0.00   42.  1011.     5 NAD-SFC NoSubs
 9  2 11  42 13  135.3 -9.000 -9.000 -9.000  620. -999. -99999.0  0.0471  0.72  0.19   0.00    0.0  15.0  284.9   2.0    0   0.00   48.  1010.     4 NAD-SFC NoSubs
 9  2 11  42 14  123.8 -9.000 -9.000 -9.000  779. -999. -99999.0  0.0471  0.72  0.20   0.00    0.0  15.0  285.8   2.0    0   0.00   50.  1009.     4 NAD-SFC NoSubs
 9  2 11  42 15   98.6  0.076  1.351  0.006  900.   50.     -1.0  0.0420  0.72  0.21   0.50  295.0  15.0  286.2   2.0    0   0.00   50.  1009.     3 NAD-SFC NoSubs
 9  2 11  42 16   59.1  0.080  1.166  0.006  966.   54.     -1.0  0.0800  0.72  0.25   0.50  325.0  15.0  286.4   2.0    0   0.00   51.  1008.     4 NAD-SFC NoSubs
 9  2 11  42 17   11.1  0.057  0.670  0.006  976.   33.     -1.5  0.0400  0.72  0.37   0.50   64.0  15.0  286.1   2.0    0   0.00   54.  1008.     4 NAD-SFC NoSubs
 9  2 11  42 18   -0.7  0.058 -9.000 -9.000 -999.   34.     23.6  0.0220  0.72  1.00   0.50  217.0  15.0  285.1   2.0    0   0.00   59.  1008.     7 NAD-SFC NoSubs
 9  2 11  42 19   -3.8  0.092 -9.000 -9.000 -999.   67.     18.7  0.0420  0.72  1.00   1.50  271.0  15.0  284.4   2.0    0   0.00   63.  1008.     7 NAD-SFC NoSubs
 9  2 11  42 20  -10.2  0.143 -9.000 -9.000 -999.  129.     25.5  0.0200  0.72  1.00   2.60  263.0  15.0  283.9   2.0    0   0.00   67.  1009.     5 NAD-SFC NoSubs
 9  2 11  42 21  -24.0  0.232 -9.000 -9.000 -999.  268.     46.7  0.0200  0.72  1.00   4.10  261.0  15.0  282.1   2.0    0   0.00   77.  1009.     4 NAD-SFC NoSubs
 9  2 11  42 22  -24.1  0.232 -9.000 -9.000 -999.  268.     46.5  0.0200  0.72  1.00   4.10  256.0  15.0  280.8   2.0    0   0.00   84.  1009.     4 NAD-SFC NoSubs
 9  2 11  42 23  -14.8  0.172 -9.000 -9.000 -999.  173.     31.1  0.0200  0.72  1.00   3.10  256.0  15.0  280.1   2.0    0   0.00   87.  1009.     5 NAD-SFC NoSubs
 9  2 11  42 24   -3.5  0.085 -9.000 -9.000 -999.   62.     15.4  0.0200  0.72  1.00   1.50  254.0  15.0  280.0   2.0    0   0.00   87.  1009.     5 NAD-SFC NoSubs
 9  2 12  43  1   -0.7  0.056 -9.000 -9.000 -999.   32.     23.1  0.0240  0.72  1.00   0.50  179.0  15.0  280.2   2.0    0   0.00   88.  1009.     8 NAD-SFC NoSubs
 9  2 12  43  2   -1.3  0.062 -9.000 -9.000 -999.   37.     15.9  0.0280  0.72  1.00   1.00  129.0  15.0  280.4   2.0    0   0.00   88.  1010.    10 NAD-SFC NoSubs
 9  2 12  43  3   -1.0  0.066 -9.000 -9.000 -999.   41.     26.6  0.0420  0.72  1.00   0.50  274.0  15.0  280.4   2.0    0   0.00   89.  1010.     5 NAD-SFC NoSubs
 9  2 12  43  4  -18.4  0.195 -9.000 -9.000 -999.  207.     36.3  0.0420  0.72  1.00   3.10  291.0  15.0  279.8   2.0    0   0.00   91.  1010.     4 NAD-SFC NoSubs
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 9  2 12  43  5  -27.6  0.262 -9.000 -9.000 -999.  322.     59.0  0.0420  0.72  1.00  4.10  289.0  15.0  278.4  2.0  0  0.00  95.  1010.   4 NAD-SFC NoSubs
 9  2 12  43  6  -19.9  0.230 -9.000 -9.000 -999.  265.     55.1  0.0420  0.72  1.00  3.60  292.0  15.0  277.8  2.0  0  0.00  97.  1011.   7 NAD-SFC NoSubs
 9  2 12  43  7  -20.9  0.221 -9.000 -9.000 -999.  250.     47.0  0.0800  0.72  1.00  3.10  303.0  15.0  277.4  2.0  0  0.00  97.  1012.   6 NAD-SFC NoSubs
 9  2 12  43  8   -8.0  0.227 -9.000 -9.000 -999.  259.    131.3  0.0800  0.72  0.47  3.10  302.0  15.0  278.2  2.0  0  0.00  92.  1012.   5 NAD-SFC NoSubs
 9  2 12  43  9   33.9  0.267  0.615  0.005  248.  330.    -50.5  0.0800  0.72  0.28  3.10  316.0  15.0  279.9  2.0  0  0.00  84.  1013.   7 NAD-SFC NoSubs
 9  2 12  43 10   77.2  0.254  1.000  0.005  468.  308.    -19.2  0.0950  0.72  0.22  2.60  332.0  15.0  281.6  2.0  0  0.00  75.  1013.   6 NAD-SFC NoSubs
 9  2 12  43 11   94.5  0.287  1.184  0.005  634.  368.    -22.5  0.0800  0.72  0.20  3.10  325.0  15.0  282.2  2.0  0  0.00  69.  1013.   7 NAD-SFC NoSubs
 9  2 12  43 12  129.0  0.329  1.427  0.005  815.  454.    -25.0  0.0800  0.72  0.19  3.60  317.0  15.0  282.6  2.0  0  0.00  66.  1013.   5 NAD-SFC NoSubs
 9  2 12  43 13  111.1  0.291  1.428  0.005  947.  377.    -19.9  0.0800  0.72  0.19  3.10  318.0  15.0  283.5  2.0  0  0.00  58.  1012.   7 NAD-SFC NoSubs
 9  2 12  43 14  113.7  0.263  1.513  0.005 1102.  324.    -14.4  0.0950  0.72  0.19  2.60  331.0  15.0  284.2  2.0  0  0.00  54.  1012.   6 NAD-SFC NoSubs
 9  2 12  43 15   98.8  0.260  1.497  0.005 1228.  318.    -16.0  0.0950  0.72  0.21  2.60  338.0  15.0  284.5  2.0  0  0.00  52.  1012.   4 NAD-SFC NoSubs
 9  2 12  43 16   59.7  0.249  1.291  0.005 1299.  299.    -23.4  0.0950  0.72  0.25  2.60  354.0  15.0  284.5  2.0  0  0.00  51.  1011.   4 NAD-SFC NoSubs
 9  2 12  43 17   10.3  0.143  0.721  0.005 1310.  135.    -25.4  0.0950  0.72  0.37  1.50  358.0  15.0  284.2  2.0  0  0.00  56.  1011.   3 NAD-SFC NoSubs
 9  2 12  43 18   -2.9  0.086 -9.000 -9.000 -999.   61.     19.9  0.0960  0.72  0.76  1.00   12.0  15.0  283.4  2.0  0  0.00  59.  1011.   3 NAD-SFC NoSubs
 9  2 12  43 19   -1.1  0.071 -9.000 -9.000 -999.   46.     28.5  0.0650  0.72  1.00  0.50   35.0  15.0  282.4  2.0  0  0.00  64.  1012.   3 NAD-SFC NoSubs
 9  2 12  43 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  281.1  2.0  0  0.00  71.  1012.   3 NAD-SFC NoSubs
 9  2 12  43 21   -2.3  0.075 -9.000 -9.000 -999.   50.     17.1  0.0280  0.72  1.00  1.00  142.0  15.0  279.8  2.0  0  0.00  78.  1012.   3 NAD-SFC NoSubs
 9  2 12  43 22   -7.4  0.120 -9.000 -9.000 -999.   99.     20.9  0.0280  0.72  1.00  2.10  135.0  15.0  279.0  2.0  0  0.00  80.  1012.   4 NAD-SFC NoSubs
 9  2 12  43 23  -11.7  0.150 -9.000 -9.000 -999.  139.     26.0  0.0280  0.72  1.00  2.60  128.0  15.0  278.8  2.0  0  0.00  79.  1012.   3 NAD-SFC NoSubs
 9  2 12  43 24  -11.7  0.150 -9.000 -9.000 -999.  139.     26.0  0.0280  0.72  1.00  2.60  145.0  15.0  278.8  2.0  0  0.00  78.  1012.   3 NAD-SFC NoSubs
 9  2 13  44  1  -11.2  0.146 -9.000 -9.000 -999.  134.     25.1  0.0240  0.72  1.00  2.60  154.0  15.0  279.0  2.0  0  0.00  77.  1012.   3 NAD-SFC NoSubs
 9  2 13  44  2  -16.2  0.177 -9.000 -9.000 -999.  179.     30.8  0.0240  0.72  1.00  3.10  165.0  15.0  279.0  2.0  0  0.00  78.  1012.   3 NAD-SFC NoSubs
 9  2 13  44  3  -16.2  0.177 -9.000 -9.000 -999.  179.     30.8  0.0240  0.72  1.00  3.10  159.0  15.0  279.1  2.0  0  0.00  80.  1011.   3 NAD-SFC NoSubs
 9  2 13  44  4  -16.6  0.182 -9.000 -9.000 -999.  186.     32.7  0.0280  0.72  1.00  3.10  147.0  15.0  279.1  2.0  0  0.00  81.  1011.   4 NAD-SFC NoSubs
 9  2 13  44  5  -16.6  0.182 -9.000 -9.000 -999.  186.     32.7  0.0280  0.72  1.00  3.10  144.0  15.0  279.1  2.0  0  0.00  82.  1011.   4 NAD-SFC NoSubs
 9  2 13  44  6  -22.4  0.213 -9.000 -9.000 -999.  236.     39.1  0.0280  0.72  1.00  3.60  142.0  15.0  279.1  2.0  0  0.00  82.  1010.   4 NAD-SFC NoSubs
 9  2 13  44  7  -24.4  0.245 -9.000 -9.000 -999.  291.     54.3  0.0280  0.72  1.00  4.10  137.0  15.0  279.2  2.0  0  0.00  82.  1010.   5 NAD-SFC NoSubs
 9  2 13  44  8   -6.2  0.246 -9.000 -9.000 -999.  293.    216.3  0.0240  0.72  0.47  4.10  150.0  15.0  279.2  2.0  0  0.51  83.  1010.   8 NAD-SFC NoSubs
 9  2 13  44  9   28.2  0.282  0.481  0.005  142.  360.    -71.9  0.0280  0.72  0.28  4.10  139.0  15.0  279.4  2.0  0  1.52  84.  1009.   8 NAD-SFC NoSubs
 9  2 13  44 10   16.9  0.306  0.457  0.005  202.  407.   -152.9  0.0280  0.72  0.22  4.60  121.0  15.0  279.8  2.0  0  1.78  83.  1009.  10 NAD-SFC NoSubs
 9  2 13  44 11   25.1  0.285  0.598  0.005  306.  366.    -83.0  0.0310  0.72  0.20  4.10  114.0  15.0  280.2  2.0  0  1.52  83.  1008.  10 NAD-SFC NoSubs
 9  2 13  44 12   29.7  0.257  0.691  0.005  398.  313.    -51.4  0.0310  0.72  0.19  3.60  111.0  15.0  280.5  2.0  0  1.78  85.  1007.  10 NAD-SFC NoSubs
 9  2 13  44 13   92.4  0.306  1.179  0.005  637.  406.    -27.8  0.0310  0.72  0.19  4.10  109.0  15.0  281.1  2.0  0  0.76  85.  1007.   8 NAD-SFC NoSubs
 9  2 13  44 14   84.7  0.274  1.255  0.005  837.  345.    -21.8  0.0310  0.72  0.19  3.60  107.0  15.0  282.0  2.0  0  0.25  83.  1006.   8 NAD-SFC NoSubs
 9  2 13  44 15   21.1  0.219  0.804  0.005  882.  248.    -44.9  0.0280  0.72  0.21  3.10  120.0  15.0  282.4  2.0  0  0.51  83.  1005.  10 NAD-SFC NoSubs
 9  2 13  44 16   59.2  0.293  1.174  0.006  981.  381.    -38.2  0.0280  0.72  0.25  4.10  129.0  15.0  282.4  2.0  0  0.76  86.  1005.   5 NAD-SFC NoSubs
 9  2 13  44 17   12.1  0.297  0.695  0.006  989.  388.   -192.4  0.0240  0.72  0.36  4.60  150.0  15.0  282.2  2.0  0  0.25  87.  1004.   4 NAD-SFC NoSubs
 9  2 13  44 18  -25.5  0.239 -9.000 -9.000 -999.  281.     47.6  0.0240  0.72  0.75  4.10  165.0  15.0  282.0  2.0  0  0.00  87.  1005.   3 NAD-SFC NoSubs
 9  2 13  44 19  -15.7  0.174 -9.000 -9.000 -999.  176.     30.3  0.0220  0.72  1.00  3.10  194.0  15.0  282.1  2.0  0  0.00  82.  1005.   3 NAD-SFC NoSubs
 9  2 13  44 20  -10.9  0.144 -9.000 -9.000 -999.  131.     24.7  0.0220  0.72  1.00  2.60  216.0  15.0  281.8  2.0  0  0.00  79.  1006.   3 NAD-SFC NoSubs
 9  2 13  44 21   -7.0  0.115 -9.000 -9.000 -999.   94.     19.4  0.0220  0.72  1.00  2.10  229.0  15.0  281.1  2.0  0  0.00  81.  1006.   3 NAD-SFC NoSubs
 9  2 13  44 22   -2.1  0.074 -9.000 -9.000 -999.   48.     16.7  0.0220  0.72  1.00  1.00  199.0  15.0  280.6  2.0  0  0.00  82.  1006.   3 NAD-SFC NoSubs
 9  2 13  44 23   -2.2  0.075 -9.000 -9.000 -999.   50.     17.1  0.0280  0.72  1.00  1.00  148.0  15.0  280.5  2.0  0  0.00  82.  1007.   3 NAD-SFC NoSubs
 9  2 13  44 24   -1.0  0.065 -9.000 -9.000 -999.   40.     26.1  0.0240  0.72  1.00  0.50  156.0  15.0  280.8  2.0  0  0.00  80.  1007.   3 NAD-SFC NoSubs
 9  2 14  45  1   -1.0  0.066 -9.000 -9.000 -999.   41.     26.4  0.0280  0.72  1.00  0.50  120.0  15.0  280.8  2.0  0  0.00  80.  1007.   3 NAD-SFC NoSubs
 9  2 14  45  2   -1.0  0.067 -9.000 -9.000 -999.   41.     26.7  0.0310  0.72  1.00  0.50   92.0  15.0  280.6  2.0  0  0.00  80.  1008.   3 NAD-SFC NoSubs
 9  2 14  45  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  280.4  2.0  0  0.00  81.  1008.   4 NAD-SFC NoSubs
 9  2 14  45  4   -0.9  0.062 -9.000 -9.000 -999.   37.     24.9  0.0200  0.72  1.00  0.50  266.0  15.0  280.1  2.0  0  0.00  83.  1009.   5 NAD-SFC NoSubs
 9  2 14  45  5   -4.2  0.094 -9.000 -9.000 -999.   69.     17.8  0.0420  0.72  1.00  1.50  278.0  15.0  279.8  2.0  0  0.00  85.  1009.   5 NAD-SFC NoSubs
 9  2 14  45  6  -22.9  0.229 -9.000 -9.000 -999.  263.     47.4  0.0420  0.72  1.00  3.60  275.0  15.0  278.8  2.0  0  0.00  91.  1010.   5 NAD-SFC NoSubs
 9  2 14  45  7  -24.1  0.229 -9.000 -9.000 -999.  263.     44.7  0.0420  0.72  1.00  3.60  270.0  15.0  277.5  2.0  0  0.00  98.  1010.   4 NAD-SFC NoSubs
 9  2 14  45  8   -5.6  0.167 -9.000 -9.000 -999.  165.     75.7  0.0420  0.72  0.46  2.60  284.0  15.0  278.0  2.0  0  0.00  95.  1010.   4 NAD-SFC NoSubs
 9  2 14  45  9   42.4  0.141  0.679  0.005  266.  127.     -5.9  0.0420  0.72  0.28  1.50  283.0  15.0  279.5  2.0  0  0.00  85.  1011.   4 NAD-SFC NoSubs
 9  2 14  45 10   86.4 -9.000 -9.000 -9.000  470. -999. -99999.0  0.0471  0.72  0.22  0.00    0.0  15.0  281.4  2.0  0  0.00  73.  1011.   4 NAD-SFC NoSubs
 9  2 14  45 11  118.1  0.109  1.361  0.005  769.  86.     -1.0  0.0240  0.72  0.20  1.00  158.0  15.0  282.8  2.0  0  0.00  64.  1010.   4 NAD-SFC NoSubs
 9  2 14  45 12  137.1  0.111  1.623  0.005 1124.  89.     -1.0  0.0240  0.72  0.19  1.00  174.0  15.0  283.8  2.0  0  0.00  58.  1009.   3 NAD-SFC NoSubs
 9  2 14  45 13  140.3  0.071  1.764  0.005 1408.  46.     -1.0  0.0220  0.72  0.19  0.50  192.0  15.0  284.8  2.0  0  0.00  53.  1008.   3 NAD-SFC NoSubs
 9  2 14  45 14  128.5  0.070  1.772  0.005 1557.  45.     -1.0  0.0220  0.72  0.19  0.50  217.0  15.0  285.4  2.0  0  0.00  49.  1007.   3 NAD-SFC NoSubs
 9  2 14  45 15  101.4 -9.000 -9.000 -9.000 1665. -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0  285.9  2.0  0  0.00  45.  1006.   2 NAD-SFC NoSubs
 9  2 14  45 16   62.3 -9.000 -9.000 -9.000 1728. -999. -99999.0  0.0471  0.72  0.24  0.00    0.0  15.0  286.2  2.0  0  0.00  43.  1006.   3 NAD-SFC NoSubs
 9  2 14  45 17   12.8 -9.000 -9.000 -9.000 1740. -999. -99999.0  0.0471  0.72  0.36  0.00    0.0  15.0  286.0  2.0  0  0.00  46.  1006.   3 NAD-SFC NoSubs
 9  2 14  45 18    5.4 -9.000 -9.000 -9.000  999. -999. -99999.0  0.0471  0.72  0.74  0.00    0.0  15.0  285.2  2.0  0  0.00  50.  1006.   3 NAD-SFC NoSubs
 9  2 14  45 19   -2.1  0.072 -9.000 -9.000 -999.   47.     16.5  0.0220  0.72  1.00  1.00  229.0  15.0  284.4  2.0  0  0.00  55.  1006.   4 NAD-SFC NoSubs
 9  2 14  45 20   -0.9  0.063 -9.000 -9.000 -999.   38.     25.4  0.0220  0.72  1.00  0.50  237.0  15.0  283.8  2.0  0  0.00  58.  1007.   4 NAD-SFC NoSubs
 9  2 14  45 21   -2.2  0.075 -9.000 -9.000 -999.   49.     17.2  0.0310  0.72  1.00  1.00  101.0  15.0  283.2  2.0  0  0.00  61.  1007.   4 NAD-SFC NoSubs
 9  2 14  45 22  -16.8  0.185 -9.000 -9.000 -999.  191.     33.8  0.0310  0.72  1.00  3.10  108.0  15.0  282.6  2.0  0  0.00  61.  1007.   4 NAD-SFC NoSubs
 9  2 14  45 23  -23.3  0.217 -9.000 -9.000 -999.  242.     39.3  0.0310  0.72  1.00  3.60  118.0  15.0  281.9  2.0  0  0.00  58.  1007.   3 NAD-SFC NoSubs
 9  2 14  45 24  -22.8  0.213 -9.000 -9.000 -999.  236.     38.2  0.0280  0.72  1.00  3.60  133.0  15.0  281.5  2.0  0  0.00  56.  1007.   3 NAD-SFC NoSubs
 9  2 15  46  1  -26.3  0.245 -9.000 -9.000 -999.  290.     49.9  0.0280  0.72  1.00  4.10  133.0  15.0  281.2  2.0  0  0.00  55.  1007.   3 NAD-SFC NoSubs
 9  2 15  46  2  -26.3  0.245 -9.000 -9.000 -999.  290.     49.9  0.0280  0.72  1.00  4.10  142.0  15.0  281.1  2.0  0  0.00  53.  1007.   3 NAD-SFC NoSubs
 9  2 15  46  3  -26.3  0.245 -9.000 -9.000 -999.  290.     49.9  0.0280  0.72  1.00  4.10  142.0  15.0  281.0  2.0  0  0.00  53.  1007.   3 NAD-SFC NoSubs
 9  2 15  46  4  -29.7  0.276 -9.000 -9.000 -999.  348.     63.5  0.0280  0.72  1.00  4.60  130.0  15.0  281.0  2.0  0  0.00  53.  1007.   3 NAD-SFC NoSubs
 9  2 15  46  5  -33.1  0.307 -9.000 -9.000 -999.  409.     78.7  0.0280  0.72  1.00  5.10  128.0  15.0  281.1  2.0  0  0.00  53.  1007.   3 NAD-SFC NoSubs
 9  2 15  46  6  -37.1  0.345 -9.000 -9.000 -999.  486.     99.3  0.0280  0.72  1.00  5.70  127.0  15.0  281.2  2.0  0  0.00  54.  1007.   3 NAD-SFC NoSubs
 9  2 15  46  7  -37.1  0.345 -9.000 -9.000 -999.  486.     99.4  0.0280  0.72  1.00  5.70  131.0  15.0  281.4  2.0  0  0.00  54.  1007.   3 NAD-SFC NoSubs
 9  2 15  46  8  -12.8  0.386 -9.000 -9.000 -999.  575.    404.1  0.0280  0.72  0.45  6.20  134.0  15.0  281.8  2.0  0  0.00  54.  1006.   3 NAD-SFC NoSubs
 9  2 15  46  9   43.7  0.414  0.552  0.005  138.  638.   -145.5  0.0280  0.72  0.27  6.20  126.0  15.0  283.0  2.0  0  0.00  53.  1006.   3 NAD-SFC NoSubs
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 9  2 15  46 10   88.7  0.360  1.114  0.005   559.   520.    -47.1  0.0280  0.72  0.22   5.10  128.0  15.0  284.5  2.0    0   0.00   53.  1006.     3 NAD-SFC NoSubs
 9  2 15  46 11  121.1  0.336  1.400  0.005   813.   469.    -28.2  0.0280  0.72  0.20   4.60  136.0  15.0  285.9  2.0    0   0.00   51.  1005.     3 NAD-SFC NoSubs
 9  2 15  46 12  139.2  0.369  1.556  0.005   971.   538.    -32.3  0.0280  0.72  0.19   5.10  135.0  15.0  286.9  2.0    0   0.00   51.  1004.     3 NAD-SFC NoSubs
 9  2 15  46 13  142.2  0.435  1.772  0.005  1402.   688.    -51.7  0.0280  0.72  0.19   6.20  138.0  15.0  287.2  2.0    0   0.00   53.  1003.     3 NAD-SFC NoSubs
 9  2 15  46 14  129.0  0.492  1.744  0.005  1473.   828.    -82.6  0.0280  0.72  0.19   7.20  142.0  15.0  287.0  2.0    0   0.00   55.  1002.     4 NAD-SFC NoSubs
 9  2 15  46 15  102.9  0.518  1.637  0.005  1526.   893.   -120.4  0.0280  0.72  0.21   7.70  128.0  15.0  286.6  2.0    0   0.00   57.  1002.     4 NAD-SFC NoSubs
 9  2 15  46 16   63.5  0.570  1.404  0.005  1557.  1032.   -260.8  0.0280  0.72  0.24   8.70  126.0  15.0  285.8  2.0    0   0.00   59.  1001.     4 NAD-SFC NoSubs
 9  2 15  46 17   14.7  0.596  0.864  0.005  1563.  1104.  -1285.0  0.0280  0.72  0.36   9.30  134.0  15.0  284.8  2.0    0   0.00   62.  1000.     4 NAD-SFC NoSubs
 9  2 15  46 18  -60.4  0.575 -9.000 -9.000  -999.  1047.    280.5  0.0280  0.72  0.73   9.30  126.0  15.0  284.5  2.0    0   0.00   63.  1000.     3 NAD-SFC NoSubs
 9  2 15  46 19  -64.0  0.603 -9.000 -9.000  -999.  1121.    304.7  0.0280  0.72  1.00   9.80  126.0  15.0  284.2  2.0    0   0.00   64.  1000.     3 NAD-SFC NoSubs
 9  2 15  46 20  -64.0  0.602 -9.000 -9.000  -999.  1122.    304.4  0.0280  0.72  1.00   9.80  135.0  15.0  284.2  2.0    0   0.00   64.   999.     3 NAD-SFC NoSubs
 9  2 15  46 21  -64.0  0.602 -9.000 -9.000  -999.  1122.    304.1  0.0280  0.72  1.00   9.80  131.0  15.0  284.2  2.0    0   0.00   65.   998.     3 NAD-SFC NoSubs
 9  2 15  46 22  -64.0  0.637 -9.000 -9.000  -999.  1218.    358.8  0.0280  0.72  1.00  10.30  134.0  15.0  284.2  2.0    0   0.00   66.   998.     3 NAD-SFC NoSubs
 9  2 15  46 23  -64.0  0.602 -9.000 -9.000  -999.  1125.    303.7  0.0280  0.72  1.00   9.80  130.0  15.0  284.2  2.0    0   0.00   67.   997.     3 NAD-SFC NoSubs
 9  2 15  46 24  -61.7  0.607 -9.000 -9.000  -999.  1136.    322.9  0.0280  0.72  1.00   9.80  134.0  15.0  284.2  2.0    0   0.00   67.   997.     4 NAD-SFC NoSubs
 9  2 16  47  1  -58.4  0.575 -9.000 -9.000  -999.  1049.    289.8  0.0280  0.72  1.00   9.30  135.0  15.0  284.4  2.0    0   0.00   69.   997.     4 NAD-SFC NoSubs
 9  2 16  47  2  -54.4  0.537 -9.000 -9.000  -999.   946.    252.1  0.0280  0.72  1.00   8.70  131.0  15.0  284.4  2.0    0   0.00   70.   996.     4 NAD-SFC NoSubs
 9  2 16  47  3  -54.4  0.537 -9.000 -9.000  -999.   943.    252.2  0.0280  0.72  1.00   8.70  132.0  15.0  284.5  2.0    0   0.00   72.   996.     4 NAD-SFC NoSubs
 9  2 16  47  4  -51.1  0.504 -9.000 -9.000  -999.   862.    223.0  0.0280  0.72  1.00   8.20  134.0  15.0  284.6  2.0    0   0.00   74.   996.     4 NAD-SFC NoSubs
 9  2 16  47  5  -47.9  0.472 -9.000 -9.000  -999.   781.    195.7  0.0280  0.72  1.00   7.70  121.0  15.0  284.8  2.0    0   0.00   75.   996.     4 NAD-SFC NoSubs
 9  2 16  47  6  -42.1  0.416 -9.000 -9.000  -999.   646.    151.4  0.0310  0.72  1.00   6.70  119.0  15.0  284.8  2.0    0   0.00   75.   996.     4 NAD-SFC NoSubs
 9  2 16  47  7  -39.6  0.377 -9.000 -9.000  -999.   556.    119.8  0.0280  0.72  1.00   6.20  135.0  15.0  284.8  2.0    0   0.00   74.   995.     3 NAD-SFC NoSubs
 9  2 16  47  8   -7.9  0.317 -9.000 -9.000  -999.   430.    354.6  0.0280  0.72  0.45   5.10  130.0  15.0  285.0  2.0    0   0.00   73.   995.     3 NAD-SFC NoSubs
 9  2 16  47  9   45.6  0.319  0.647  0.005   210.   432.    -63.2  0.0280  0.72  0.27   4.60  138.0  15.0  285.9  2.0    0   0.00   71.   995.     3 NAD-SFC NoSubs
 9  2 16  47 10   90.5  0.265  1.056  0.005   462.   329.    -18.3  0.0240  0.72  0.21   3.60  154.0  15.0  287.9  2.0    0   0.00   63.   995.     4 NAD-SFC NoSubs
 9  2 16  47 11  122.4  0.417  1.496  0.005   972.   646.    -52.5  0.0220  0.72  0.20   6.20  205.0  15.0  289.5  2.0    0   0.25   50.   995.     4 NAD-SFC NoSubs
 9  2 16  47 12  141.1  0.449  1.678  0.005  1190.   721.    -56.8  0.0220  0.72  0.19   6.70  222.0  15.0  289.2  2.0    0   0.76   51.   995.     3 NAD-SFC NoSubs
 9  2 16  47 13  142.5  0.449  1.763  0.005  1367.   722.    -56.3  0.0220  0.72  0.19   6.70  233.0  15.0  289.0  2.0    0   1.02   54.   995.     4 NAD-SFC NoSubs
 9  2 16  47 14  130.7  0.384  1.760  0.005  1484.   575.    -38.6  0.0200  0.72  0.19   5.70  245.0  15.0  288.5  2.0    0   1.27   58.   996.     4 NAD-SFC NoSubs
 9  2 16  47 15  104.5  0.265  1.665  0.005  1571.   336.    -15.8  0.0220  0.72  0.21   3.60  236.0  15.0  287.9  2.0    0   1.27   64.   996.     4 NAD-SFC NoSubs
 9  2 16  47 16   65.1  0.228  1.436  0.005  1620.   261.    -16.1  0.0220  0.72  0.24   3.10  230.0  15.0  287.1  2.0    0   1.52   65.   997.     4 NAD-SFC NoSubs
 9  2 16  47 17   16.1  0.209  0.904  0.005  1631.   229.    -50.4  0.0220  0.72  0.35   3.10  222.0  15.0  286.2  2.0    0   0.76   66.   997.     4 NAD-SFC NoSubs
 9  2 16  47 18  -15.4  0.175 -9.000 -9.000  -999.   175.     30.8  0.0220  0.72  0.72   3.10  199.0  15.0  286.0  2.0    0   0.00   66.   999.     3 NAD-SFC NoSubs
 9  2 16  47 19  -15.5  0.175 -9.000 -9.000  -999.   175.     30.5  0.0220  0.72  1.00   3.10  192.0  15.0  285.5  2.0    0   0.00   68.  1000.     3 NAD-SFC NoSubs
 9  2 16  47 20  -15.6  0.175 -9.000 -9.000  -999.   175.     30.5  0.0220  0.72  1.00   3.10  184.0  15.0  284.8  2.0    0   0.00   71.  1001.     3 NAD-SFC NoSubs
 9  2 16  47 21  -21.3  0.205 -9.000 -9.000  -999.   223.     36.2  0.0220  0.72  1.00   3.60  184.0  15.0  284.1  2.0    0   0.00   74.  1002.     3 NAD-SFC NoSubs
 9  2 16  47 22  -15.9  0.177 -9.000 -9.000  -999.   179.     31.1  0.0240  0.72  1.00   3.10  179.0  15.0  283.8  2.0    0   0.00   74.  1002.     3 NAD-SFC NoSubs
 9  2 16  47 23  -15.6  0.175 -9.000 -9.000  -999.   175.     30.4  0.0220  0.72  1.00   3.10  181.0  15.0  283.5  2.0    0   0.00   74.  1003.     3 NAD-SFC NoSubs
 9  2 16  47 24  -15.4  0.175 -9.000 -9.000  -999.   175.     31.1  0.0220  0.72  1.00   3.10  184.0  15.0  283.2  2.0    0   0.25   74.  1003.     4 NAD-SFC NoSubs
 9  2 17  48  1  -21.4  0.208 -9.000 -9.000  -999.   228.     37.7  0.0240  0.72  1.00   3.60  176.0  15.0  282.9  2.0    0   0.51   75.  1003.     4 NAD-SFC NoSubs
 9  2 17  48  2  -15.7  0.177 -9.000 -9.000  -999.   179.     31.7  0.0240  0.72  1.00   3.10  172.0  15.0  282.6  2.0    0   0.51   76.  1004.     4 NAD-SFC NoSubs
 9  2 17  48  3  -15.7  0.177 -9.000 -9.000  -999.   179.     31.7  0.0240  0.72  1.00   3.10  161.0  15.0  282.2  2.0    0   0.76   77.  1004.     4 NAD-SFC NoSubs
 9  2 17  48  4  -15.7  0.177 -9.000 -9.000  -999.   179.     31.7  0.0240  0.72  1.00   3.10  154.0  15.0  282.1  2.0    0   0.51   76.  1004.     4 NAD-SFC NoSubs
 9  2 17  48  5  -21.4  0.208 -9.000 -9.000  -999.   228.     37.6  0.0240  0.72  1.00   3.60  151.0  15.0  282.0  2.0    0   0.51   75.  1004.     4 NAD-SFC NoSubs
 9  2 17  48  6  -22.0  0.213 -9.000 -9.000  -999.   237.     39.5  0.0280  0.72  1.00   3.60  137.0  15.0  281.9  2.0    0   0.51   74.  1005.     4 NAD-SFC NoSubs
 9  2 17  48  7  -25.3  0.245 -9.000 -9.000  -999.   291.     52.0  0.0280  0.72  1.00   4.10  135.0  15.0  281.8  2.0    0   0.51   75.  1005.     4 NAD-SFC NoSubs
 9  2 17  48  8   -4.2  0.255 -9.000 -9.000  -999.   308.    350.3  0.0280  0.72  0.44   4.10  121.0  15.0  281.8  2.0    0   0.25   76.  1006.     4 NAD-SFC NoSubs
 9  2 17  48  9   45.8  0.324  0.710  0.005   281.   442.    -66.6  0.0310  0.72  0.27   4.60  118.0  15.0  282.2  2.0    0   0.25   75.  1007.     5 NAD-SFC NoSubs
 9  2 17  48 10   61.4  0.298  0.937  0.005   482.   391.    -38.8  0.0310  0.72  0.21   4.10  111.0  15.0  283.2  2.0    0   0.51   70.  1007.     8 NAD-SFC NoSubs
 9  2 17  48 11   27.0  0.256  0.744  0.005   548.   311.    -55.8  0.0310  0.72  0.20   3.60  105.0  15.0  283.2  2.0    0   1.02   74.  1008.    10 NAD-SFC NoSubs
 9  2 17  48 12   31.5  0.288  0.816  0.005   618.   371.    -68.2  0.0310  0.72  0.19   4.10  104.0  15.0  283.4  2.0    0   1.02   78.  1007.    10 NAD-SFC NoSubs
 9  2 17  48 13   32.3  0.258  0.855  0.005   694.   315.    -47.8  0.0310  0.72  0.19   3.60  108.0  15.0  283.8  2.0    0   0.76   78.  1007.    10 NAD-SFC NoSubs
 9  2 17  48 14   29.4  0.223  0.858  0.005   771.   254.    -34.1  0.0280  0.72  0.19   3.10  124.0  15.0  284.0  2.0    0   0.76   78.  1007.    10 NAD-SFC NoSubs
 9  2 17  48 15   71.1  0.237  1.225  0.005   930.   277.    -16.8  0.0280  0.72  0.20   3.10  134.0  15.0  284.4  2.0    0   0.25   77.  1007.     8 NAD-SFC NoSubs
 9  2 17  48 16   12.6  0.238  0.696  0.005   956.   279.    -96.0  0.0240  0.72  0.24   3.60  152.0  15.0  284.5  2.0    0   0.25   77.  1007.    10 NAD-SFC NoSubs
 9  2 17  48 17   17.1  0.247  0.778  0.005   990.   294.    -78.8  0.0280  0.72  0.35   3.60  149.0  15.0  284.2  2.0    0   0.00   82.  1007.     5 NAD-SFC NoSubs
 9  2 17  48 18  -23.6  0.245 -9.000 -9.000  -999.   292.     56.2  0.0280  0.72  0.71   4.10  139.0  15.0  283.8  2.0    0   0.00   84.  1007.     5 NAD-SFC NoSubs
 9  2 17  48 19  -24.0  0.245 -9.000 -9.000  -999.   291.     55.2  0.0280  0.72  1.00   4.10  144.0  15.0  283.4  2.0    0   0.25   83.  1008.     5 NAD-SFC NoSubs
 9  2 17  48 20  -25.3  0.245 -9.000 -9.000  -999.   291.     52.3  0.0280  0.72  1.00   4.10  138.0  15.0  283.1  2.0    0   0.25   82.  1009.     4 NAD-SFC NoSubs
 9  2 17  48 21  -16.4  0.182 -9.000 -9.000  -999.   187.     33.0  0.0280  0.72  1.00   3.10  140.0  15.0  283.1  2.0    0   0.00   81.  1009.     4 NAD-SFC NoSubs
 9  2 17  48 22  -16.4  0.182 -9.000 -9.000  -999.   186.     33.0  0.0280  0.72  1.00   3.10  132.0  15.0  283.1  2.0    0   0.00   80.  1010.     4 NAD-SFC NoSubs
 9  2 17  48 23  -21.0  0.214 -9.000 -9.000  -999.   237.     41.9  0.0280  0.72  1.00   3.60  123.0  15.0  283.0  2.0    0   0.25   81.  1010.     5 NAD-SFC NoSubs
 9  2 17  48 24  -12.4  0.220 -9.000 -9.000  -999.   248.     77.8  0.0310  0.72  1.00   3.60  116.0  15.0  282.8  2.0    0   0.51   83.  1011.    10 NAD-SFC NoSubs
 9  2 18  49  1  -10.4  0.185 -9.000 -9.000  -999.   192.     55.0  0.0280  0.72  1.00   3.10  133.0  15.0  282.6  2.0    0   0.51   85.  1011.    10 NAD-SFC NoSubs
 9  2 18  49  2   -8.6  0.154 -9.000 -9.000  -999.   145.     38.2  0.0280  0.72  1.00   2.60  143.0  15.0  282.5  2.0    0   0.25   87.  1012.    10 NAD-SFC NoSubs
 9  2 18  49  3   -5.5  0.122 -9.000 -9.000  -999.   103.     29.8  0.0280  0.72  1.00   2.10  143.0  15.0  282.2  2.0    0   0.25   90.  1012.    10 NAD-SFC NoSubs
 9  2 18  49  4   -0.7  0.056 -9.000 -9.000  -999.    33.     23.0  0.0240  0.72  1.00   0.50  154.0  15.0  282.1  2.0    0   0.25   92.  1013.     8 NAD-SFC NoSubs
 9  2 18  49  5 -999.0 -9.000 -9.000 -9.000  -999.  -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  281.9  2.0    0   0.00   94.  1013.     7 NAD-SFC NoSubs
 9  2 18  49  6 -999.0 -9.000 -9.000 -9.000  -999.  -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  281.6  2.0    0   0.00   96.  1014.     7 NAD-SFC NoSubs
 9  2 18  49  7   -1.0  0.066 -9.000 -9.000  -999.    41.     26.5  0.0420  0.72  1.00   0.50  280.0  15.0  281.2  2.0    0   0.00   98.  1014.     5 NAD-SFC NoSubs
 9  2 18  49  8   -0.6  0.098 -9.000 -9.000  -999.    73.    133.9  0.0420  0.72  0.44   1.50  274.0  15.0  280.8  2.0    0   0.00  100.  1015.     5 NAD-SFC NoSubs
 9  2 18  49  9   47.5  0.142  0.752  0.005   323.   129.     -5.5  0.0420  0.72  0.27   1.50  278.0  15.0  281.2  2.0    0   0.00   95.  1015.     4 NAD-SFC NoSubs
 9  2 18  49 10   92.0  0.116  1.103  0.005   528.    95.     -1.5  0.0420  0.72  0.21   1.00  288.0  15.0  282.4  2.0    0   0.00   88.  1015.     3 NAD-SFC NoSubs
 9  2 18  49 11  124.3  0.089  1.351  0.005   718.    63.     -1.0  0.0800  0.72  0.20   0.50  309.0  15.0  283.6  2.0    0   0.00   81.  1015.     3 NAD-SFC NoSubs
 9  2 18  49 12  142.6 -9.000 -9.000 -9.000   887.  -999. -99999.0  0.0471  0.72  0.19   0.00    0.0  15.0  285.5  2.0    0   0.00   71.  1014.     3 NAD-SFC NoSubs
 9  2 18  49 13  145.5 -9.000 -9.000 -9.000  1056.  -999. -99999.0  0.0471  0.72  0.19   0.00    0.0  15.0  287.0  2.0    0   0.00   62.  1013.     2 NAD-SFC NoSubs
 9  2 18  49 14  133.7 -9.000 -9.000 -9.000  1217.  -999. -99999.0  0.0471  0.72  0.19   0.00    0.0  15.0  288.0  2.0    0   0.00   56.  1012.     2 NAD-SFC NoSubs
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 9  2 18  49 15  107.1  0.090  1.580  0.005 1331.   65.     -1.0  0.0950  0.72  0.20   0.50  341.0  15.0 288.6  2.0   0  0.00   52. 1012.   2 NAD-SFC NoSubs
 9  2 18  49 16   66.6  0.169  1.369  0.005 1391.  167.     -6.6  0.0950  0.72  0.24   1.50  356.0  15.0 288.8  2.0   0  0.00   51. 1011.   2 NAD-SFC NoSubs
 9  2 18  49 17   15.9  0.228  0.852  0.005 1403.  261.    -67.1  0.0960  0.72  0.35   2.60    9.0  15.0 288.2  2.0   0  0.00   57. 1011.   2 NAD-SFC NoSubs
 9  2 18  49 18  -30.3  0.284 -9.000 -9.000 -999.  364.     68.4  0.0650  0.72  0.70   4.10   33.0  15.0 286.9  2.0   0  0.00   64. 1011.   2 NAD-SFC NoSubs
 9  2 18  49 19  -30.3  0.284 -9.000 -9.000 -999.  364.     68.5  0.0650  0.72  1.00   4.10   50.0  15.0 285.6  2.0   0  0.00   71. 1012.   3 NAD-SFC NoSubs
 9  2 18  49 20  -28.5  0.260 -9.000 -9.000 -999.  318.     55.6  0.0400  0.72  1.00   4.10   84.0  15.0 285.0  2.0   0  0.00   72. 1012.   2 NAD-SFC NoSubs
 9  2 18  49 21  -26.9  0.244 -9.000 -9.000 -999.  290.     49.1  0.0280  0.72  1.00   4.10  128.0  15.0 284.2  2.0   0  0.00   68. 1012.   2 NAD-SFC NoSubs
 9  2 18  49 22  -29.6  0.269 -9.000 -9.000 -999.  335.     59.3  0.0240  0.72  1.00   4.60  173.0  15.0 283.6  2.0   0  0.00   61. 1012.   2 NAD-SFC NoSubs
 9  2 18  49 23  -25.9  0.235 -9.000 -9.000 -999.  274.     45.2  0.0220  0.72  1.00   4.10  182.0  15.0 283.1  2.0   0  0.00   57. 1012.   2 NAD-SFC NoSubs
 9  2 18  49 24   -7.3  0.117 -9.000 -9.000 -999.  104.     19.6  0.0240  0.72  1.00   2.10  175.0  15.0 282.6  2.0   0  0.00   54. 1012.   2 NAD-SFC NoSubs
 9  2 19  50  1   -2.3  0.077 -9.000 -9.000 -999.   51.     17.4  0.0310  0.72  1.00   1.00  109.0  15.0 281.9  2.0   0  0.00   55. 1012.   2 NAD-SFC NoSubs
 9  2 19  50  2   -5.0  0.102 -9.000 -9.000 -999.   78.     19.0  0.0650  0.72  1.00   1.50   39.0  15.0 280.8  2.0   0  0.00   63. 1012.   2 NAD-SFC NoSubs
 9  2 19  50  3  -14.9  0.175 -9.000 -9.000 -999.  175.     32.2  0.0650  0.72  1.00   2.60   38.0  15.0 279.8  2.0   0  0.00   75. 1012.   2 NAD-SFC NoSubs
 9  2 19  50  4  -14.9  0.175 -9.000 -9.000 -999.  175.     32.2  0.0650  0.72  1.00   2.60   36.0  15.0 279.2  2.0   0  0.00   86. 1012.   2 NAD-SFC NoSubs
 9  2 19  50  5   -9.6  0.139 -9.000 -9.000 -999.  124.     25.2  0.0650  0.72  1.00   2.10   39.0  15.0 279.0  2.0   0  0.00   95. 1012.   2 NAD-SFC NoSubs
 9  2 19  50  6   -5.6  0.109 -9.000 -9.000 -999.   86.     20.7  0.0960  0.72  1.00   1.50   18.0  15.0 277.6  2.0   0  0.00  100. 1012.   2 NAD-SFC NoSubs
 9  2 19  50  7   -5.6  0.109 -9.000 -9.000 -999.   86.     20.7  0.0960  0.72  1.00   1.50   20.0  15.0 277.0  2.0   0  0.00  100. 1013.   2 NAD-SFC NoSubs
 9  2 19  50  8   -2.7  0.111 -9.000 -9.000 -999.   88.     44.8  0.0960  0.72  0.43   1.50    7.0  15.0 277.5  2.0   0  0.00  100. 1013.   2 NAD-SFC NoSubs
 9  2 19  50  9   46.5  0.163  0.477  0.008   84.  158.     -8.5  0.0950  0.72  0.26   1.50  354.0  15.0 279.2  2.0   0  0.00   97. 1013.   2 NAD-SFC NoSubs
 9  2 19  50 10   92.4  0.175  0.878  0.007  265.  176.     -5.3  0.0950  0.72  0.21   1.50  341.0  15.0 282.5  2.0   0  0.00   79. 1013.   2 NAD-SFC NoSubs
 9  2 19  50 11  125.5  0.228  1.160  0.006  449.  262.     -8.6  0.0950  0.72  0.19   2.10  350.0  15.0 285.6  2.0   0  0.00   62. 1013.   2 NAD-SFC NoSubs
 9  2 19  50 12  144.0  0.231  1.358  0.006  628.  267.     -7.7  0.0950  0.72  0.19   2.10  353.0  15.0 287.8  2.0   0  0.00   49. 1012.   2 NAD-SFC NoSubs
 9  2 19  50 13  147.3  0.270  1.467  0.005  775.  337.    -12.1  0.0960  0.72  0.19   2.60    2.0  15.0 288.8  2.0   0  0.00   46. 1012.   2 NAD-SFC NoSubs
 9  2 19  50 14  135.4 -9.000 -9.000 -9.000  891. -999. -99999.0  0.0471  0.72  0.19   0.00    0.0  15.0 289.4  2.0   0  0.00   44. 1011.   2 NAD-SFC NoSubs
 9  2 19  50 15  108.7  0.300  1.431  0.005  975.  393.    -22.3  0.0960  0.72  0.20   3.10    7.0  15.0 289.8  2.0   0  0.00   44. 1011.   2 NAD-SFC NoSubs
 9  2 19  50 16   68.0  0.325  1.249  0.005 1032.  444.    -45.4  0.0960  0.72  0.24   3.60   17.0  15.0 289.5  2.0   0  0.00   52. 1010.   2 NAD-SFC NoSubs
 9  2 19  50 17   16.9  0.282  0.789  0.005 1042.  360.   -119.2  0.0650  0.72  0.34   3.60   34.0  15.0 288.2  2.0   0  0.00   59. 1010.   2 NAD-SFC NoSubs
 9  2 19  50 18  -28.4  0.269 -9.000 -9.000 -999.  334.     61.4  0.0960  0.72  0.68   3.60   27.0  15.0 287.1  2.0   0  0.00   61. 1011.   2 NAD-SFC NoSubs
 9  2 19  50 19  -16.7  0.189 -9.000 -9.000 -999.  200.     36.7  0.0960  0.72  1.00   2.60   12.0  15.0 286.4  2.0   0  0.00   60. 1011.   2 NAD-SFC NoSubs
 9  2 19  50 20  -10.0  0.145 -9.000 -9.000 -999.  133.     27.5  0.0800  0.72  1.00   2.10  320.0  15.0 285.8  2.0   0  0.00   62. 1011.   3 NAD-SFC NoSubs
 9  2 19  50 21  -12.9  0.161 -9.000 -9.000 -999.  155.     29.3  0.0420  0.72  1.00   2.60  298.0  15.0 285.0  2.0   0  0.00   66. 1012.   3 NAD-SFC NoSubs
 9  2 19  50 22  -25.1  0.228 -9.000 -9.000 -999.  262.     42.9  0.0420  0.72  1.00   3.60  299.0  15.0 284.2  2.0   0  0.00   68. 1012.   2 NAD-SFC NoSubs
 9  2 19  50 23  -22.8  0.220 -9.000 -9.000 -999.  248.     42.3  0.0800  0.72  1.00   3.10  317.0  15.0 283.4  2.0   0  0.00   69. 1012.   2 NAD-SFC NoSubs
 9  2 19  50 24  -10.1  0.145 -9.000 -9.000 -999.  134.     26.9  0.0800  0.72  1.00   2.10  328.0  15.0 282.6  2.0   0  0.00   71. 1012.   2 NAD-SFC NoSubs
 9  2 20  51  1   -5.5  0.108 -9.000 -9.000 -999.   86.     20.7  0.0950  0.72  1.00   1.50  348.0  15.0 282.0  2.0   0  0.00   72. 1012.   2 NAD-SFC NoSubs
 9  2 20  51  2   -3.0  0.087 -9.000 -9.000 -999.   62.     20.0  0.0950  0.72  1.00   1.00  353.0  15.0 281.5  2.0   0  0.00   73. 1012.   2 NAD-SFC NoSubs
 9  2 20  51  3   -2.9  0.085 -9.000 -9.000 -999.   60.     19.5  0.0800  0.72  1.00   1.00  304.0  15.0 281.0  2.0   0  0.00   75. 1012.   2 NAD-SFC NoSubs
 9  2 20  51  4   -8.4  0.128 -9.000 -9.000 -999.  110.     22.4  0.0420  0.72  1.00   2.10  281.0  15.0 280.2  2.0   0  0.00   76. 1012.   2 NAD-SFC NoSubs
 9  2 20  51  5   -7.0  0.113 -9.000 -9.000 -999.   92.     18.7  0.0200  0.72  1.00   2.10  268.0  15.0 279.8  2.0   0  0.00   76. 1012.   2 NAD-SFC NoSubs
 9  2 20  51  6   -8.5  0.128 -9.000 -9.000 -999.  110.     22.4  0.0420  0.72  1.00   2.10  273.0  15.0 279.4  2.0   0  0.00   76. 1012.   2 NAD-SFC NoSubs
 9  2 20  51  7   -8.5  0.128 -9.000 -9.000 -999.  110.     22.4  0.0420  0.72  1.00   2.10  272.0  15.0 279.2  2.0   0  0.00   74. 1012.   2 NAD-SFC NoSubs
 9  2 20  51  8   -1.9  0.095 -9.000 -9.000 -999.   70.     41.5  0.0420  0.72  0.42   1.50  275.0  15.0 279.2  2.0   0  0.00   72. 1012.   2 NAD-SFC NoSubs
 9  2 20  51  9   48.1  0.159  0.567  0.009  137.  152.     -7.5  0.0800  0.72  0.26   1.50  312.0  15.0 280.9  2.0   0  0.00   63. 1012.   2 NAD-SFC NoSubs
 9  2 20  51 10   93.7  0.085  0.859  0.007  244.   61.     -1.0  0.0800  0.72  0.21   0.50  307.0  15.0 282.5  2.0   0  0.00   57. 1012.   2 NAD-SFC NoSubs
 9  2 20  51 11  126.6 -9.000 -9.000 -9.000  377. -999. -99999.0  0.0471  0.72  0.19   0.00    0.0  15.0 284.6  2.0   0  0.00   49. 1012.   2 NAD-SFC NoSubs
 9  2 20  51 12  144.9  0.138  1.363  0.006  631.  123.     -1.6  0.0800  0.72  0.19   1.00  302.0  15.0 286.0  2.0   0  0.00   43. 1011.   2 NAD-SFC NoSubs
 9  2 20  51 13  148.1  0.123  1.488  0.006  802.  103.     -1.1  0.0420  0.72  0.19   1.00  298.0  15.0 287.0  2.0   0  0.00   42. 1010.   2 NAD-SFC NoSubs
 9  2 20  51 14  136.1  0.137  1.520  0.008  930.  121.     -1.7  0.0800  0.72  0.19   1.00  300.0  15.0 287.8  2.0   0  0.00   40. 1010.   2 NAD-SFC NoSubs
 9  2 20  51 15  109.4  0.133  1.452  0.008 1009.  116.     -1.9  0.0800  0.72  0.20   1.00  314.0  15.0 288.1  2.0   0  0.00   39. 1009.   2 NAD-SFC NoSubs
 9  2 20  51 16   68.7  0.126  1.260  0.009 1048.  107.     -2.6  0.0800  0.72  0.24   1.00  326.0  15.0 288.0  2.0   0  0.00   42. 1009.   2 NAD-SFC NoSubs
 9  2 20  51 17   17.8  0.071  0.806  0.009 1058.   46.     -1.8  0.0960  0.72  0.34   0.50    8.0  15.0 287.5  2.0   0  0.00   46. 1008.   2 NAD-SFC NoSubs
 9  2 20  51 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.67   0.00    0.0  15.0 286.6  2.0   0  0.00   51. 1008.   2 NAD-SFC NoSubs
 9  2 20  51 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0 285.8  2.0   0  0.00   56. 1008.   2 NAD-SFC NoSubs
 9  2 20  51 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0 284.9  2.0   0  0.00   60. 1009.   2 NAD-SFC NoSubs
 9  2 20  51 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0 284.2  2.0   0  0.00   64. 1009.   2 NAD-SFC NoSubs
 9  2 20  51 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0 283.8  2.0   0  0.00   68. 1009.   2 NAD-SFC NoSubs
 9  2 20  51 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0 283.2  2.0   0  0.00   70. 1009.   2 NAD-SFC NoSubs
 9  2 20  51 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0 282.8  2.0   0  0.00   72. 1010.   2 NAD-SFC NoSubs
 9  2 21  52  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0 282.5  2.0   0  0.00   74. 1010.   2 NAD-SFC NoSubs
 9  2 21  52  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0 282.2  2.0   0  0.00   74. 1010.   2 NAD-SFC NoSubs
 9  2 21  52  3   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0420  0.72  1.00   0.50  298.0  15.0 282.1  2.0   0  0.00   74. 1010.   2 NAD-SFC NoSubs
 9  2 21  52  4   -2.5  0.079 -9.000 -9.000 -999.   53.     18.0  0.0420  0.72  1.00   1.00  288.0  15.0 281.9  2.0   0  0.00   75. 1010.   2 NAD-SFC NoSubs
 9  2 21  52  5   -4.5  0.095 -9.000 -9.000 -999.   70.     17.3  0.0420  0.72  1.00   1.50  294.0  15.0 281.8  2.0   0  0.00   75. 1010.   2 NAD-SFC NoSubs
 9  2 21  52  6   -4.5  0.095 -9.000 -9.000 -999.   70.     17.3  0.0420  0.72  1.00   1.50  288.0  15.0 281.6  2.0   0  0.00   74. 1010.   2 NAD-SFC NoSubs
 9  2 21  52  7   -4.5  0.095 -9.000 -9.000 -999.   70.     17.3  0.0420  0.72  1.00   1.50  294.0  15.0 281.5  2.0   0  0.00   72. 1010.   2 NAD-SFC NoSubs
 9  2 21  52  8   -1.2  0.096 -9.000 -9.000 -999.   72.     64.3  0.0420  0.72  0.42   1.50  286.0  15.0 281.5  2.0   0  0.00   69. 1010.   2 NAD-SFC NoSubs
 9  2 21  52  9   49.8  0.159  0.604  0.009  159.  153.     -7.3  0.0800  0.72  0.26   1.50  324.0  15.0 282.8  2.0   0  0.00   56. 1010.   2 NAD-SFC NoSubs
 9  2 21  52 10   95.4  0.171  0.954  0.008  328.  169.     -4.7  0.0800  0.72  0.21   1.50  306.0  15.0 284.0  2.0   0  0.00   52. 1010.   2 NAD-SFC NoSubs
 9  2 21  52 11  128.1  0.176  1.199  0.007  486.  178.     -3.9  0.0800  0.72  0.19   1.50  312.0  15.0 285.2  2.0   0  0.00   49. 1010.   2 NAD-SFC NoSubs
 9  2 21  52 12  146.3  0.138  1.361  0.007  620.  123.     -1.6  0.0800  0.72  0.19   1.00  314.0  15.0 286.8  2.0   0  0.00   45. 1009.   2 NAD-SFC NoSubs
 9  2 21  52 13  149.6  0.138  1.458  0.008  747.  124.     -1.6  0.0800  0.72  0.19   1.00  311.0  15.0 287.9  2.0   0  0.00   40. 1009.   2 NAD-SFC NoSubs
 9  2 21  52 14  137.6  0.142  1.483  0.008  853.  128.     -1.9  0.0950  0.72  0.19   1.00  333.0  15.0 288.4  2.0   0  0.00   38. 1008.   2 NAD-SFC NoSubs
 9  2 21  52 15  110.7  0.179  1.419  0.008  928.  182.     -4.7  0.0960  0.72  0.20   1.50    8.0  15.0 288.6  2.0   0  0.00   39. 1008.   2 NAD-SFC NoSubs
 9  2 21  52 16   70.0  0.159  1.237  0.009  972.  152.     -5.2  0.0650  0.72  0.23   1.50   38.0  15.0 288.4  2.0   0  0.00   44. 1008.   2 NAD-SFC NoSubs
 9  2 21  52 17   19.0  0.140  0.803  0.009  981.  126.    -13.1  0.0650  0.72  0.33   1.50   38.0  15.0 288.0  2.0   0  0.00   46. 1008.   2 NAD-SFC NoSubs
 9  2 21  52 18   -1.1  0.070 -9.000 -9.000 -999.   46.     28.1  0.0650  0.72  0.67   0.50   31.0  15.0 287.5  2.0   0  0.00   49. 1008.   2 NAD-SFC NoSubs
 9  2 21  52 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0 286.9  2.0   0  0.00   53. 1009.   2 NAD-SFC NoSubs
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9	2	21	52	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	286.5	2.0	0	0.00	57.	1009.	2	NAD-SFC	NoSubs
9	2	21	52	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	286.2	2.0	0	0.00	58.	1010.	3	NAD-SFC	NoSubs
9	2	21	52	22	-1.1	0.070	-9.000	-9.000	-999.	44.	28.0	0.0650	0.72	1.00	0.50	33.0	15.0	286.1	2.0	0	0.00	60.	1010.	4	NAD-SFC	NoSubs
9	2	21	52	23	-1.1	0.070	-9.000	-9.000	-999.	44.	28.0	0.0800	0.72	1.00	0.50	302.0	15.0	286.0	2.0	0	0.00	62.	1010.	5	NAD-SFC	NoSubs
9	2	21	52	24	-2.7	0.083	-9.000	-9.000	-999.	57.	19.3	0.0800	0.72	1.00	1.00	316.0	15.0	285.8	2.0	0	0.00	64.	1010.	4	NAD-SFC	NoSubs
9	2	22	53	1	-5.3	0.108	-9.000	-9.000	-999.	85.	21.2	0.0950	0.72	1.00	1.50	336.0	15.0	285.5	2.0	0	0.00	66.	1010.	4	NAD-SFC	NoSubs
9	2	22	53	2	-10.1	0.151	-9.000	-9.000	-999.	140.	30.4	0.0950	0.72	1.00	2.10	350.0	15.0	285.1	2.0	0	0.00	69.	1009.	5	NAD-SFC	NoSubs
9	2	22	53	3	-15.8	0.190	-9.000	-9.000	-999.	199.	39.0	0.0950	0.72	1.00	2.60	340.0	15.0	284.8	2.0	0	0.00	72.	1009.	5	NAD-SFC	NoSubs
9	2	22	53	4	-21.5	0.221	-9.000	-9.000	-999.	250.	45.3	0.0800	0.72	1.00	3.10	326.0	15.0	284.5	2.0	0	0.00	75.	1009.	5	NAD-SFC	NoSubs
9	2	22	53	5	-15.3	0.190	-9.000	-9.000	-999.	199.	40.5	0.0950	0.72	1.00	2.60	334.0	15.0	284.4	2.0	0	0.00	77.	1009.	6	NAD-SFC	NoSubs
9	2	22	53	6	-14.1	0.192	-9.000	-9.000	-999.	201.	45.0	0.0950	0.72	1.00	2.60	350.0	15.0	284.2	2.0	0	0.00	80.	1010.	8	NAD-SFC	NoSubs
9	2	22	53	7	-13.0	0.233	-9.000	-9.000	-999.	270.	87.4	0.0960	0.72	1.00	3.10	25.0	15.0	284.0	2.0	0	0.25	84.	1010.	10	NAD-SFC	NoSubs
9	2	22	53	8	3.6	0.199	0.158	0.008	39.	214.	-198.3	0.0650	0.72	0.41	2.60	50.0	15.0	283.9	2.0	0	0.51	86.	1010.	7	NAD-SFC	NoSubs
9	2	22	53	9	36.4	0.176	0.509	0.009	130.	178.	-13.6	0.0400	0.72	0.26	2.10	74.0	15.0	284.1	2.0	0	0.51	88.	1010.	8	NAD-SFC	NoSubs
9	2	22	53	10	89.1	0.183	0.845	0.008	244.	188.	-6.2	0.0310	0.72	0.21	2.10	97.0	15.0	284.8	2.0	0	0.51	89.	1010.	6	NAD-SFC	NoSubs
9	2	22	53	11	125.0	0.217	1.079	0.005	362.	242.	-7.3	0.0280	0.72	0.19	2.60	134.0	15.0	285.8	2.0	0	0.51	88.	1010.	5	NAD-SFC	NoSubs
9	2	22	53	12	146.4	0.251	1.322	0.005	568.	301.	-9.7	0.0280	0.72	0.19	3.10	126.0	15.0	286.8	2.0	0	0.51	88.	1009.	4	NAD-SFC	NoSubs
9	2	22	53	13	149.6	0.251	1.498	0.005	809.	302.	-9.5	0.0280	0.72	0.19	3.10	129.0	15.0	287.9	2.0	0	0.25	87.	1008.	4	NAD-SFC	NoSubs
9	2	22	53	14	133.7	0.249	1.545	0.006	992.	298.	-10.4	0.0280	0.72	0.19	3.10	144.0	15.0	288.4	2.0	0	0.25	87.	1008.	5	NAD-SFC	NoSubs
9	2	22	53	15	108.6	0.239	1.476	0.006	1066.	281.	-11.4	0.0240	0.72	0.20	3.10	154.0	15.0	288.4	2.0	0	0.25	90.	1008.	5	NAD-SFC	NoSubs
9	2	22	53	16	70.6	0.232	1.297	0.006	1111.	268.	-15.8	0.0240	0.72	0.23	3.10	152.0	15.0	288.1	2.0	0	0.51	93.	1007.	5	NAD-SFC	NoSubs
9	2	22	53	17	23.0	0.215	0.896	0.006	1125.	240.	-39.1	0.0240	0.72	0.33	3.10	153.0	15.0	287.9	2.0	0	0.51	95.	1007.	5	NAD-SFC	NoSubs
9	2	22	53	18	-15.4	0.183	-9.000	-9.000	-999.	188.	35.6	0.0280	0.72	0.66	3.10	141.0	15.0	287.9	2.0	0	0.51	96.	1007.	5	NAD-SFC	NoSubs
9	2	22	53	19	-15.4	0.183	-9.000	-9.000	-999.	187.	35.6	0.0280	0.72	1.00	3.10	138.0	15.0	287.9	2.0	0	0.51	97.	1007.	6	NAD-SFC	NoSubs
9	2	22	53	20	-15.4	0.183	-9.000	-9.000	-999.	187.	35.6	0.0280	0.72	1.00	3.10	136.0	15.0	287.9	2.0	0	0.51	97.	1007.	6	NAD-SFC	NoSubs
9	2	22	53	21	-15.4	0.183	-9.000	-9.000	-999.	187.	35.6	0.0280	0.72	1.00	3.10	136.0	15.0	288.0	2.0	0	0.51	98.	1007.	6	NAD-SFC	NoSubs
9	2	22	53	22	-15.4	0.183	-9.000	-9.000	-999.	187.	35.6	0.0280	0.72	1.00	3.10	139.0	15.0	288.0	2.0	0	0.51	98.	1007.	6	NAD-SFC	NoSubs
9	2	22	53	23	-15.4	0.183	-9.000	-9.000	-999.	188.	35.6	0.0280	0.72	1.00	3.10	145.0	15.0	288.1	2.0	0	0.51	99.	1007.	6	NAD-SFC	NoSubs
9	2	22	53	24	-14.8	0.183	-9.000	-9.000	-999.	188.	37.3	0.0280	0.72	1.00	3.10	147.0	15.0	288.1	2.0	0	0.51	100.	1006.	7	NAD-SFC	NoSubs
9	2	23	54	1	-10.2	0.185	-9.000	-9.000	-999.	192.	56.1	0.0280	0.72	1.00	3.10	146.0	15.0	288.1	2.0	0	0.76	100.	1006.	10	NAD-SFC	NoSubs
9	2	23	54	2	-10.2	0.185	-9.000	-9.000	-999.	192.	56.2	0.0280	0.72	1.00	3.10	148.0	15.0	288.2	2.0	0	1.27	100.	1006.	10	NAD-SFC	NoSubs
9	2	23	54	3	-8.2	0.150	-9.000	-9.000	-999.	140.	37.2	0.0240	0.72	1.00	2.60	160.0	15.0	288.2	2.0	0	2.29	100.	1006.	10	NAD-SFC	NoSubs
9	2	23	54	4	-5.9	0.116	-9.000	-9.000	-999.	95.	23.8	0.0220	0.72	1.00	2.10	189.0	15.0	288.2	2.0	0	3.30	100.	1006.	8	NAD-SFC	NoSubs
9	2	23	54	5	-5.8	0.114	-9.000	-9.000	-999.	93.	23.2	0.0200	0.72	1.00	2.10	251.0	15.0	288.2	2.0	0	3.56	100.	1006.	8	NAD-SFC	NoSubs
9	2	23	54	6	-9.1	0.165	-9.000	-9.000	-999.	161.	44.6	0.0420	0.72	1.00	2.60	283.0	15.0	288.4	2.0	0	2.29	100.	1007.	10	NAD-SFC	NoSubs
9	2	23	54	7	-7.4	0.149	-9.000	-9.000	-999.	138.	40.2	0.0800	0.72	1.00	2.10	315.0	15.0	288.2	2.0	0	1.27	100.	1008.	10	NAD-SFC	NoSubs
9	2	23	54	8	-1.0	0.072	-9.000	-9.000	-999.	49.	34.2	0.0950	0.72	0.41	1.00	351.0	15.0	288.1	2.0	0	0.51	99.	1008.	10	NAD-SFC	NoSubs
9	2	23	54	9	10.7	0.057	0.283	0.006	76.	33.	-1.6	0.0400	0.72	0.26	0.50	62.0	15.0	288.0	2.0	0	1.02	100.	1009.	10	NAD-SFC	NoSubs
9	2	23	54	10	22.1	0.060	0.476	0.005	175.	35.	-1.0	0.0310	0.72	0.21	0.50	101.0	15.0	287.9	2.0	0	1.02	100.	1009.	10	NAD-SFC	NoSubs
9	2	23	54	11	30.2	0.102	0.614	0.005	275.	78.	-3.1	0.0400	0.72	0.19	1.00	89.0	15.0	288.0	2.0	0	0.76	100.	1009.	10	NAD-SFC	NoSubs
9	2	23	54	12	135.0	0.198	1.268	0.005	544.	212.	-5.2	0.0400	0.72	0.19	2.10	76.0	15.0	288.6	2.0	0	0.00	96.	1009.	6	NAD-SFC	NoSubs
9	2	23	54	13	146.6	0.232	1.449	0.005	746.	269.	-7.7	0.0400	0.72	0.19	2.60	76.0	15.0	289.5	2.0	0	0.00	90.	1008.	5	NAD-SFC	NoSubs
9	2	23	54	14	114.6	0.148	1.411	0.005	882.	139.	-2.6	0.0310	0.72	0.19	1.50	95.0	15.0	290.9	2.0	0	0.00	79.	1008.	7	NAD-SFC	NoSubs
9	2	23	54	15	26.9	0.060	0.881	0.005	913.	40.	-1.0	0.0280	0.72	0.20	0.50	126.0	15.0	292.0	2.0	0	0.00	72.	1008.	10	NAD-SFC	NoSubs
9	2	23	54	16	62.3	0.065	1.191	0.005	976.	40.	-1.0	0.0240	0.72	0.23	0.50	157.0	15.0	292.2	2.0	0	0.00	70.	1007.	7	NAD-SFC	NoSubs
9	2	23	54	17	24.5	0.059	0.879	0.005	995.	35.	-1.0	0.0280	0.72	0.33	0.50	126.0	15.0	292.1	2.0	0	0.00	72.	1007.	6	NAD-SFC	NoSubs
9	2	23	54	18	11.9	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	0.65	0.00	0.0	15.0	291.2	2.0	0	0.00	76.	1007.	5	NAD-SFC	NoSubs
9	2	23	54	19	-0.8	0.059	-9.000	-9.000	-999.	35.	24.0	0.0200	0.72	1.00	0.50	255.0	15.0	290.2	2.0	0	0.00	82.	1008.	6	NAD-SFC	NoSubs
9	2	23	54	20	-3.3	0.083	-9.000	-9.000	-999.	58.	15.8	0.0200	0.72	1.00	1.50	262.0	15.0	289.5	2.0	0	0.00	85.	1008.	6	NAD-SFC	NoSubs
9	2	23	54	21	-17.1	0.196	-9.000	-9.000	-999.	208.	39.5	0.0420	0.72	1.00	3.10	272.0	15.0	288.8	2.0	0	0.00	88.	1008.	6	NAD-SFC	NoSubs
9	2	23	54	22	-25.4	0.263	-9.000	-9.000	-999.	323.	64.2	0.0420	0.72	1.00	4.10	290.0	15.0	287.1	2.0	0	0.00	94.	1009.	5	NAD-SFC	NoSubs
9	2	23	54	23	-20.9	0.230	-9.000	-9.000	-999.	265.	52.1	0.0420	0.72	1.00	3.60	288.0	15.0	286.0	2.0	0	0.00	96.	1009.	6	NAD-SFC	NoSubs
9	2	23	54	24	-21.8	0.260	-9.000	-9.000	-999.	318.	72.5	0.0800	0.72	1.00	3.60	303.0	15.0	285.8	2.0	0	0.00	94.	1009.	7	NAD-SFC	NoSubs
9	2	24	55	1	-16.9	0.223	-9.000	-9.000	-999.	253.	59.1	0.0800	0.72	1.00	3.10	313.0	15.0	285.8	2.0	0	0.00	92.	1010.	8	NAD-SFC	NoSubs
9	2	24	55	2	-5.0	0.107	-9.000	-9.000	-999.	92.	22.2	0.0950	0.72	1.00	1.50	332.0	15.0	285.9	2.0	0	0.00	92.	1010.	6	NAD-SFC	NoSubs
9	2	24	55	3	-2.4	0.080	-9.000	-9.000	-999.	54.	19.4	0.0960	0.72	1.00	1.00	12.0	15.0	285.9	2.0	0	0.25	92.	1010.	7	NAD-SFC	NoSubs
9	2	24	55	4	-1.1	0.069	-9.000	-9.000	-999.	44.	27.8	0.0950	0.72	1.00	0.50	351.0	15.0	285.8	2.0	0	0.25	92.	1011.	6	NAD-SFC	NoSubs
9	2	24	55	5	-2.3	0.078	-9.000	-9.000	-999.	52.	18.8	0.0800	0.72	1.00	1.00	304.0	15.0	285.8	2.0	0	0.00	92.	1011.	7	NAD-SFC	NoSubs
9	2	24	55	6	-3.0	0.091	-9.000	-9.000	-999.	66.	22.6	0.0420	0.72	1.00	1.50	287.0	15.0	285.5	2.0	0	0.00	91.	1011.	10	NAD-SFC	NoSubs
9	2	24	55	7	-3.0	0.091	-9.000	-9.000	-999.	66.	22.6	0.0420	0.72	1.00	1.50	286.0	15.0	285.4	2.0	0	0.00	89.	1011.	10	NAD-SFC	NoSubs
9	2	24	55	8	-1.9	0.095	-9.000	-9.000	-999.	70.	40.2	0.0420	0.72	0.40	1.50	289.0	15.0	285.2	2.0	0	0.00	88.	1012.	10	NAD-SFC	NoSubs
9	2	24	55	9	46.8	0.142	0.841	0.007	458.	128.	-5.5	0.0420	0.72	0.25	1.50	291.0	15.0	285.4	2.0	0	0.00	82.	1012.	7	NAD-SFC	NoSubs
9	2	24	55	10	99.9	0.076	1.188	0.008	607.	52.	-1.0	0.0420	0.72	0.21	0.50	272.0	15.0	285.8	2.0	0	0.00	79.	1012.	2	NAD-SFC	NoSubs
9	2	24	55	11	132.4	0.109	1.383	0.007	721.	86.	-1.0	0.0220	0.72	0.19	1.00	230.0	15.0	286.8	2.0	0	0.00	77.	1011.	2	NAD-SFC	NoSubs
9	2	24	55	12	150.7	0.072	1.504	0.007	815.	46.	-1.0	0.0220	0.72	0.19	0.50	229.0	15.0	288.2	2.0	0	0.00	73.	1010.	2	NAD-SFC	NoSubs
9	2	24	55	13	154.0	0.071	1.567	0.006	901.	45.	-1.0	0.0200	0.72	0.19	0.50	261.0	15.0	289.8	2.0	0	0.00	66.	1009.	2	NAD-SFC	NoSubs
9	2	24	55	14	142.1	0.080	1.567	0.005	976.	54.	-1.0	0.0420	0.72	0.19	0.50	275.0	15.0	290.6	2.0	0	0.00	60.	1008.	2	NAD-SFC	NoSubs
9	2	24	55	15	115.2	0.078	1.502	0.005	1058.	52.	-1.0	0.0420	0.72	0.20	0.50	285.0	15.0	291.1	2.0	0	0.00	56.	1008.	2	NAD-SFC	NoSubs
9	2	24	55	16	75.8	0.086	1.327	0.005	1110.	60.	-1.0	0.0950	0.72	0.23	0.50	353.0	15.0	291.8	2.0	0	0.00	53.	1007.	3	NAD-SFC	NoSubs
9	2	24	55	17	24.7	0.154	0.919	0.005	1125.	145.	-13.2	0.0960	0.72	0.32	1.50	22.0	15.0	291.2	2.0	0	0.00	57.	1006.	3	NAD-SFC	NoSubs
9	2	24	55	18	-4.5	0.100	-9.000	-9.000	-999.	76.	19.8	0.0650	0.72	0.64	1.50	34.0	15.0	290.5	2.0	0	0.00	63.	1007.	3	NAD-SFC	NoSubs
9	2	24	55	19	-2.8	0.085	-9.000	-9.000	-999.	60.	19.8	0.0960	0.72	1.00	1.00	24.0	15.0	289.6	2.0	0	0.00	69.	1007.	3	NAD-SFC	NoSubs
9	2	24	55	20	-1.2	0.073	-9.000	-9.000	-999.	48.	29.2	0.0950	0.72	1.00	0.50	354.0	15.0	288.9	2.0	0	0.00	73.	1007.	3	NAD-SFC	NoSubs
9	2	24	55	21	-4.3	0.094	-9.000	-9.000	-999.	70.	17.5	0.0420	0.72	1.00	1.50	271.0	15.0	288.5	2.0	0	0.00	75.	1007.	3	NAD-SFC	NoSubs
9	2	24	55	22	-24.1	0.229	-9.000	-9.000	-999.	263.	44.7	0.0420	0.72	1.00	3.60	285.0	15.0	288.0	2.0	0	0.00	77.	1008.	3	NAD-SFC	NoSubs
9	2	24	55	23	-27.7	0.262	-9.000	-9.000	-999.	322.	58.6	0.0420	0.72	1.00	4.10	287.0	15.0	287.2	2.0	0	0.00	81.	1008.	3	NAD-SFC	NoSubs
9	2	24	55	24	-27.8	0.262	-9.000	-9.000	-999.	322.	58.4	0.0420	0.72	1.00	4.10	277.0	15.0	286.2	2.0	0	0.00	83.	1008.	3	NAD-SFC	NoSubs

9	2	25	56	1	-24.2	0.229	-9.000	-9.000	-999.	263.	44.3	0.0420	0.72	1.00	3.60	284.0	15.0	285.8	2.0	0	0.00	84.	1008.	3	NAD-SFC	NoSubs
9	2	25	56	2	-18.5	0.195	-9.000	-9.000	-999.	207.	36.0	0.0420	0.72	1.00	3.10	295.0	15.0	285.6	2.0	0	0.00	83.	1008.	3	NAD-SFC	NoSubs
9	2	25	56	3	-12.8	0.161	-9.000	-9.000	-999.	155.	29.3	0.0420	0.72	1.00	2.60	288.0	15.0	285.4	2.0	0	0.00	82.	1008.	3	NAD-SFC	NoSubs
9	2	25	56	4	-23.5	0.229	-9.000	-9.000	-999.	263.	45.9	0.0420	0.72	1.00	3.60	287.0	15.0	284.6	2.0	0	0.00	85.	1009.	4	NAD-SFC	NoSubs
9	2	25	56	5	-23.6	0.229	-9.000	-9.000	-999.	263.	45.8	0.0420	0.72	1.00	3.60	295.0	15.0	283.8	2.0	0	0.00	88.	1009.	4	NAD-SFC	NoSubs
9	2	25	56	6	-18.3	0.195	-9.000	-9.000	-999.	207.	36.6	0.0420	0.72	1.00	3.10	283.0	15.0	283.2	2.0	0	0.00	87.	1010.	4	NAD-SFC	NoSubs
9	2	25	56	7	-6.8	0.113	-9.000	-9.000	-999.	94.	19.5	0.0200	0.72	1.00	2.10	262.0	15.0	283.1	2.0	0	0.00	87.	1010.	4	NAD-SFC	NoSubs
9	2	25	56	8	5.8	0.226	0.220	0.007	66.	258.	-180.7	0.0200	0.72	0.40	3.60	263.0	15.0	284.2	2.0	0	0.00	80.	1011.	4	NAD-SFC	NoSubs
9	2	25	56	9	57.4	0.217	0.799	0.006	320.	242.	-16.0	0.0420	0.72	0.25	2.60	282.0	15.0	285.5	2.0	0	0.00	72.	1011.	4	NAD-SFC	NoSubs
9	2	25	56	10	101.6	0.172	1.094	0.005	465.	171.	-4.5	0.0800	0.72	0.21	1.50	316.0	15.0	286.4	2.0	0	0.00	67.	1011.	4	NAD-SFC	NoSubs
9	2	25	56	11	133.1	-9.000	-9.000	-9.000	596.	-999.	-99999.0	0.0471	0.72	0.19	0.00	0.0	15.0	287.0	2.0	0	0.00	64.	1011.	4	NAD-SFC	NoSubs
9	2	25	56	12	102.2	0.136	1.265	0.005	713.	121.	-2.2	0.0960	0.72	0.19	1.00	16.0	15.0	288.0	2.0	0	0.00	60.	1010.	8	NAD-SFC	NoSubs
9	2	25	56	13	104.3	0.137	1.368	0.005	884.	121.	-2.2	0.0960	0.72	0.19	1.00	6.0	15.0	288.9	2.0	0	0.00	57.	1009.	8	NAD-SFC	NoSubs
9	2	25	56	14	129.3	-9.000	-9.000	-9.000	1100.	-999.	-99999.0	0.0471	0.72	0.19	0.00	0.0	15.0	289.6	2.0	0	0.00	54.	1009.	6	NAD-SFC	NoSubs
9	2	25	56	15	112.6	-9.000	-9.000	-9.000	1288.	-999.	-99999.0	0.0471	0.72	0.20	0.00	0.0	15.0	290.1	2.0	0	0.00	52.	1008.	5	NAD-SFC	NoSubs
9	2	25	56	16	74.5	0.254	1.411	0.007	1357.	307.	-19.8	0.0960	0.72	0.23	2.60	11.0	15.0	290.1	2.0	0	0.00	52.	1008.	5	NAD-SFC	NoSubs
9	2	25	56	17	26.3	0.235	1.000	0.007	1368.	274.	-44.4	0.0960	0.72	0.32	2.60	28.0	15.0	289.8	2.0	0	0.00	58.	1007.	4	NAD-SFC	NoSubs
9	2	25	56	18	-22.6	0.249	-9.000	-9.000	-999.	298.	61.4	0.0650	0.72	0.63	3.60	31.0	15.0	288.8	2.0	0	0.00	63.	1008.	4	NAD-SFC	NoSubs
9	2	25	56	19	-19.2	0.213	-9.000	-9.000	-999.	236.	45.0	0.0650	0.72	1.00	3.10	38.0	15.0	287.8	2.0	0	0.00	65.	1008.	6	NAD-SFC	NoSubs
9	2	25	56	20	-1.8	0.073	-9.000	-9.000	-999.	68.	20.1	0.0960	0.72	1.00	1.00	27.0	15.0	287.1	2.0	0	0.00	68.	1008.	10	NAD-SFC	NoSubs
9	2	25	56	21	-6.1	0.131	-9.000	-9.000	-999.	114.	33.4	0.0420	0.72	1.00	2.10	280.0	15.0	286.8	2.0	0	0.00	72.	1009.	10	NAD-SFC	NoSubs
9	2	25	56	22	-14.8	0.266	-9.000	-9.000	-999.	329.	114.6	0.0420	0.72	1.00	4.10	276.0	15.0	285.9	2.0	0	0.00	80.	1009.	10	NAD-SFC	NoSubs
9	2	25	56	23	-22.2	0.264	-9.000	-9.000	-999.	325.	74.2	0.0420	0.72	1.00	4.10	284.0	15.0	284.5	2.0	0	0.00	90.	1009.	7	NAD-SFC	NoSubs
9	2	25	56	24	-19.4	0.230	-9.000	-9.000	-999.	265.	56.4	0.0420	0.72	1.00	3.60	284.0	15.0	283.8	2.0	0	0.00	92.	1009.	7	NAD-SFC	NoSubs
9	2	26	57	1	-9.3	0.165	-9.000	-9.000	-999.	162.	43.7	0.0420	0.72	1.00	2.60	271.0	15.0	283.2	2.0	0	0.00	92.	1009.	10	NAD-SFC	NoSubs
9	2	26	57	2	-5.1	0.116	-9.000	-9.000	-999.	95.	27.5	0.0200	0.72	1.00	2.10	248.0	15.0	283.6	2.0	0	0.00	90.	1010.	10	NAD-SFC	NoSubs
9	2	26	57	3	-2.5	0.081	-9.000	-9.000	-999.	55.	18.9	0.0200	0.72	1.00	1.50	240.0	15.0	284.0	2.0	0	0.00	88.	1010.	10	NAD-SFC	NoSubs
9	2	26	57	4	-0.5	0.049	-9.000	-9.000	-999.	26.	20.4	0.0200	0.72	1.00	0.50	252.0	15.0	284.2	2.0	0	0.00	87.	1010.	10	NAD-SFC	NoSubs
9	2	26	57	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	284.4	2.0	0	0.00	86.	1010.	10	NAD-SFC	NoSubs
9	2	26	57	6	-0.5	0.050	-9.000	-9.000	-999.	27.	21.0	0.0280	0.72	1.00	0.50	120.0	15.0	284.6	2.0	0	0.00	86.	1011.	10	NAD-SFC	NoSubs
9	2	26	57	7	-1.3	0.061	-9.000	-9.000	-999.	37.	15.9	0.0280	0.72	1.00	1.00	133.0	15.0	284.6	2.0	0	0.00	86.	1011.	10	NAD-SFC	NoSubs
9	2	26	57	8	-1.6	0.089	-9.000	-9.000	-999.	64.	40.7	0.0280	0.72	0.39	1.50	132.0	15.0	284.6	2.0	0	0.00	87.	1011.	10	NAD-SFC	NoSubs
9	2	26	57	9	40.2	0.168	0.711	0.005	323.	165.	-10.6	0.0280	0.72	0.25	2.10	139.0	15.0	285.2	2.0	0	0.00	82.	1011.	8	NAD-SFC	NoSubs
9	2	26	57	10	100.2	0.069	1.187	0.005	602.	50.	-1.0	0.0240	0.72	0.21	0.50	151.0	15.0	286.9	2.0	0	0.00	72.	1011.	5	NAD-SFC	NoSubs
9	2	26	57	11	134.7	-9.000	-9.000	-9.000	802.	-999.	-99999.0	0.0471	0.72	0.19	0.00	0.0	15.0	287.9	2.0	0	0.00	66.	1011.	4	NAD-SFC	NoSubs
9	2	26	57	12	152.1	-9.000	-9.000	-9.000	976.	-999.	-99999.0	0.0471	0.72	0.19	0.00	0.0	15.0	288.5	2.0	0	0.00	63.	1010.	4	NAD-SFC	NoSubs
9	2	26	57	13	150.2	-9.000	-9.000	-9.000	1163.	-999.	-99999.0	0.0471	0.72	0.19	0.00	0.0	15.0	289.5	2.0	0	0.00	59.	1009.	5	NAD-SFC	NoSubs
9	2	26	57	14	130.6	0.069	1.678	0.009	1304.	44.	-1.0	0.0200	0.72	0.19	0.50	251.0	15.0	290.2	2.0	0	0.00	55.	1009.	6	NAD-SFC	NoSubs
9	2	26	57	15	113.9	0.134	1.628	0.009	1364.	117.	-1.9	0.0800	0.72	0.20	1.00	326.0	15.0	290.8	2.0	0	0.00	54.	1008.	5	NAD-SFC	NoSubs
9	2	26	57	16	77.6	0.218	1.441	0.009	1388.	244.	-12.0	0.0950	0.72	0.23	2.10	352.0	15.0	290.8	2.0	0	0.00	54.	1008.	4	NAD-SFC	NoSubs
9	2	26	57	17	27.5	-9.000	-9.000	-9.000	1396.	-999.	-99999.0	0.0471	0.72	0.32	0.00	0.0	15.0	290.4	2.0	0	0.00	61.	1008.	4	NAD-SFC	NoSubs
9	2	26	57	18	-27.6	0.309	-9.000	-9.000	-999.	412.	96.1	0.0960	0.72	0.62	4.10	14.0	15.0	288.8	2.0	0	0.00	71.	1008.	4	NAD-SFC	NoSubs
9	2	26	57	19	-29.8	0.308	-9.000	-9.000	-999.	411.	88.3	0.0960	0.72	1.00	4.10	13.0	15.0	287.1	2.0	0	0.00	79.	1009.	5	NAD-SFC	NoSubs
9	2	26	57	20	-20.4	0.271	-9.000	-9.000	-999.	339.	87.3	0.0960	0.72	1.00	3.60	4.0	15.0	286.2	2.0	0	0.00	83.	1009.	8	NAD-SFC	NoSubs
9	2	26	57	21	-15.1	0.272	-9.000	-9.000	-999.	340.	119.4	0.0950	0.72	1.00	3.60	355.0	15.0	285.4	2.0	0	0.00	86.	1010.	10	NAD-SFC	NoSubs
9	2	26	57	22	-15.1	0.272	-9.000	-9.000	-999.	340.	119.3	0.0950	0.72	1.00	3.60	351.0	15.0	285.2	2.0	0	0.00	87.	1010.	10	NAD-SFC	NoSubs
9	2	26	57	23	-14.1	0.192	-9.000	-9.000	-999.	204.	45.3	0.0960	0.72	1.00	2.60	5.0	15.0	285.2	2.0	0	0.00	86.	1010.	8	NAD-SFC	NoSubs
9	2	26	57	24	-4.5	0.107	-9.000	-9.000	-999.	86.	24.2	0.0950	0.72	1.00	1.50	354.0	15.0	285.4	2.0	0	0.00	86.	1010.	8	NAD-SFC	NoSubs
9	2	27	58	1	-1.7	0.071	-9.000	-9.000	-999.	46.	19.3	0.0800	0.72	1.00	1.00	318.0	15.0	285.4	2.0	0	0.00	86.	1010.	10	NAD-SFC	NoSubs
9	2	27	58	2	-1.4	0.065	-9.000	-9.000	-999.	40.	17.0	0.0420	0.72	1.00	1.00	277.0	15.0	285.4	2.0	0	0.00	86.	1010.	10	NAD-SFC	NoSubs
9	2	27	58	3	-1.4	0.065	-9.000	-9.000	-999.	40.	17.0	0.0420	0.72	1.00	1.00	273.0	15.0	285.2	2.0	0	0.00	87.	1010.	10	NAD-SFC	NoSubs
9	2	27	58	4	-1.7	0.071	-9.000	-9.000	-999.	46.	19.3	0.0800	0.72	1.00	1.00	302.0	15.0	285.2	2.0	0	0.00	88.	1010.	10	NAD-SFC	NoSubs
9	2	27	58	5	-3.7	0.103	-9.000	-9.000	-999.	80.	27.0	0.0800	0.72	1.00	1.50	325.0	15.0	285.0	2.0	0	0.25	91.	1011.	10	NAD-SFC	NoSubs
9	2	27	58	6	-7.8	0.154	-9.000	-9.000	-999.	145.	42.1	0.0950	0.72	1.00	2.10	334.0	15.0	284.8	2.0	0	0.25	93.	1011.	10	NAD-SFC	NoSubs
9	2	27	58	7	-10.8	0.193	-9.000	-9.000	-999.	204.	60.4	0.0950	0.72	1.00	2.60	343.0	15.0	284.8	2.0	0	0.25	95.	1011.	10	NAD-SFC	NoSubs
9	2	27	58	8	-3.1	0.199	-9.000	-9.000	-999.	213.	229.3	0.0950	0.72	0.38	2.60	343.0	15.0	284.6	2.0	0	0.00	93.	1011.	10	NAD-SFC	NoSubs
9	2	27	58	9	58.7	0.249	0.887	0.005	429.	299.	-23.8	0.0960	0.72	0.25	2.60	15.0	15.0	284.9	2.0	0	0.00	85.	1011.	5	NAD-SFC	NoSubs
9	2	27	58	10	104.8	0.137	1.216	0.005	619.	128.	-2.2	0.0960	0.72	0.21	1.00	9.0	15.0	285.8	2.0	0	0.00	78.	1011.	3	NAD-SFC	NoSubs
9	2	27	58	11	137.0	-9.000	-9.000	-9.000	821.	-999.	-99999.0	0.0471	0.72	0.19	0.00	0.0	15.0	286.8	2.0	0	0.00	73.	1011.	3	NAD-SFC	NoSubs
9	2	27	58	12	154.5	-9.000	-9.000	-9.000	1017.	-999.	-99999.0	0.0471	0.72	0.19	0.00	0.0	15.0	287.6	2.0	0	0.00	68.	1010.	2	NAD-SFC	NoSubs
9	2	27	58	13	157.4	-9.000	-9.000	-9.000	1221.	-999.	-99999.0	0.0471	0.72	0.19	0.00	0.0	15.0	288.5	2.0	0	0.00	63.	1009.	2	NAD-SFC	NoSubs
9	2	27	58	14	145.3	-9.000	-9.000	-9.000	1349.	-999.	-99999.0	0.0471	0.72	0.19	0.00	0.0	15.0	289.1	2.0	0	0.00	59.	1008.	2	NAD-SFC	NoSubs
9	2	27	58	15	118.3	0.091	1.654	0.012	1377.	66.	-1.0	0.0950	0.72	0.20	0.50	335.0	15.0	289.5	2.0	0	0.00	57.	1008.	2	NAD-SFC	NoSubs
9	2	27	58	16	77.4	0.172	1.442	0.012	1394.	171.	-5.9	0.0950	0.72	0.23	1.50	345.0	15.0	289.5	2.0	0	0.00	56.	1008.	2	NAD-SFC	NoSubs
9	2	27	58	17	25.6	0.154	0.999	0.012	1400.	145.	-12.9	0.0960	0.72	0.32	1.50	6.0	15.0	289.2	2.0	0	0.00	60.	1008.	2	NAD-SFC	NoSubs
9	2	27	58	18	-4.6	0.100	-9.000	-9.000	-999.	76.	19.8	0.0650	0.72	0.61	1.50	41.0	15.0	288.8	2.0	0	0.00	63.	1008.	2	NAD-SFC	NoSubs
9	2	27	58	19	-4.3	0.094	-9.000	-9.000	-999.	69.	17.3	0.0400	0.72	1.00	1.50	68.0	15.0	288.1	2.0	0	0.00	66.	1008.	2	NAD-SFC	NoSubs
9	2	27	58	20	-4.3	0.094	-9.000	-9.000	-999.	69.	17.2	0.0400	0.72	1.00	1.50	89.0	15.0	287.6	2.0	0	0.00	68.	1008.	2	NAD-SFC	NoSubs
9	2	27	58	21	-4.1	0.091	-9.000	-9.000	-999.	66.	16.4	0.0310	0.72	1.00	1.50	106.0	15.0	287.0	2.0	0	0.00	72.	1009.	2	NAD-SFC	NoSubs
9	2	27	58	22	-1.0	0.066	-9.000	-9.000	-999.	41.	26.5	0.0280	0.72	1.00	0.50	135.0	15.0	286.6	2.0	0	0.00	75.	1009.	2	NAD-SFC	NoSubs
9	2	27	58	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	286.1	2.0	0	0.00	79.	1009.	2	NAD-SFC	NoSubs
9	2	27	58	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	285.8	2.0	0	0.00	82.	1009.	2	NAD-SFC	NoSubs
9	2	28	59	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	285.6	2.0	0	0.00	84.	1009.	2	NAD-SFC	NoSubs
9	2	28	59	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	285.4	2.0	0	0.00	85.	1009.	2	NAD-SFC	NoSubs
9	2	28	59	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	285.2	2.0	0	0.00	85.	1009.	2	NAD-SFC	NoSubs
9	2	28	59	4	-1.2	0.073	-9.000	-9.000	-999.	48.	29.2	0.0800	0.72	1.00	0.50	317.0	15.0	285.1	2.0	0	0.00	86.	1009.	2	NAD-SFC	NoSubs
9	2	28	59	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	285.0	2.0	0	0.00	86.	1009.	2	NAD-SFC	NoSubs

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 9  2 28  59  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 284.8  2.0  0  0.00  86. 1009.  2 NAD-SFC NoSubs
 9  2 28  59  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 284.8  2.0  0  0.00  86. 1009.  2 NAD-SFC NoSubs
 9  2 28  59  8    6.3 -9.000 -9.000 -9.000   51. -999. -99999.0  0.0471  0.72  0.38  0.00   0.0  15.0 284.8  2.0  0  0.00  86. 1009.  2 NAD-SFC NoSubs
 9  2 28  59  9   60.2  0.080  0.705  0.009  209.   55.     -1.0  0.0800  0.72  0.25  0.50 317.0  15.0 286.5  2.0  0  0.00  69. 1009.  2 NAD-SFC NoSubs
 9  2 28  59 10  106.2  0.090  1.023  0.009  363.   65.     -1.0  0.0950  0.72  0.20  0.50 336.0  15.0 288.5  2.0  0  0.00  60. 1009.  2 NAD-SFC NoSubs
 9  2 28  59 11  139.2  0.093  1.266  0.009  524.   68.     -1.0  0.0960  0.72  0.19  0.50  19.0  15.0 291.1  2.0  0  0.00  46. 1008.  2 NAD-SFC NoSubs
 9  2 28  59 12  157.7  0.095  1.429  0.009  665.   70.     -1.0  0.0960  0.72  0.19  0.50  19.0  15.0 293.2  2.0  0  0.00  37. 1007.  2 NAD-SFC NoSubs
 9  2 28  59 13  161.0  0.135  1.506  0.009  763.  118.     -1.4  0.0650  0.72  0.19  1.00  30.0  15.0 294.8  2.0  0  0.00  32. 1006.  2 NAD-SFC NoSubs
 9  2 28  59 14  149.0  0.253  1.518  0.008  843.  305.     -9.7  0.0650  0.72  0.19  2.60  35.0  15.0 295.6  2.0  0  0.00  31. 1006.  2 NAD-SFC NoSubs
 9  2 28  59 15  121.3  0.375  1.450  0.008  901.  551.    -39.0  0.0960  0.72  0.20  4.10  12.0  15.0 294.4  2.0  0  0.00  44. 1005.  2 NAD-SFC NoSubs
 9  2 28  59 16   79.6  0.401  1.276  0.008  935.  609.    -72.7  0.0960  0.72  0.23  4.60  19.0  15.0 292.6  2.0  0  0.00  54. 1005.  2 NAD-SFC NoSubs
 9  2 28  59 17   27.3  0.357  0.897  0.008  946.  513.   -149.0  0.0650  0.72  0.31  4.60  32.0  15.0 291.2  2.0  0  0.00  59. 1005.  2 NAD-SFC NoSubs
 9  2 28  59 18  -26.5  0.285 -9.000 -9.000 -999.  368.     78.6  0.0650  0.72  0.60  4.10  33.0  15.0 290.6  2.0  0  0.00  58. 1006.  2 NAD-SFC NoSubs
 9  2 28  59 19  -10.6  0.150 -9.000 -9.000 -999.  152.     28.9  0.0960  0.72  1.00  2.10  27.0  15.0 290.6  2.0  0  0.00  55. 1006.  2 NAD-SFC NoSubs
 9  2 28  59 20   -2.2  0.074 -9.000 -9.000 -999.   51.     16.8  0.0240  0.72  1.00  1.00 170.0  15.0 290.8  2.0  0  0.00  51. 1006.  2 NAD-SFC NoSubs
 9  2 28  59 21   -7.1  0.117 -9.000 -9.000 -999.   96.     19.9  0.0240  0.72  1.00  2.10 179.0  15.0 290.8  2.0  0  0.00  48. 1006.  2 NAD-SFC NoSubs
 9  2 28  59 22  -16.0  0.177 -9.000 -9.000 -999.  179.     31.1  0.0240  0.72  1.00  3.10 175.0  15.0 290.6  2.0  0  0.00  47. 1006.  2 NAD-SFC NoSubs
 9  2 28  59 23  -16.0  0.177 -9.000 -9.000 -999.  179.     31.0  0.0240  0.72  1.00  3.10 172.0  15.0 290.5  2.0  0  0.00  46. 1006.  2 NAD-SFC NoSubs
 9  2 28  59 24  -10.9  0.144 -9.000 -9.000 -999.  132.     24.7  0.0220  0.72  1.00  2.60 185.0  15.0 290.5  2.0  0  0.00  45. 1006.  2 NAD-SFC NoSubs
 9  3  1  60  1   -7.7  0.123 -9.000 -9.000 -999.  103.     21.5  0.0330  0.32  1.00  2.10 189.0  15.0 290.5  2.0  0  0.00  45. 1005.  2 NAD-SFC NoSubs
 9  3  1  60  2   -4.1  0.091 -9.000 -9.000 -999.   66.     16.7  0.0330  0.32  1.00  1.50 199.0  15.0 290.5  2.0  0  0.00  44. 1005.  2 NAD-SFC NoSubs
 9  3  1  60  3   -2.3  0.076 -9.000 -9.000 -999.   51.     17.4  0.0330  0.32  1.00  1.00 208.0  15.0 290.5  2.0  0  0.00  44. 1005.  2 NAD-SFC NoSubs
 9  3  1  60  4   -2.3  0.076 -9.000 -9.000 -999.   51.     17.4  0.0330  0.32  1.00  1.00 197.0  15.0 290.5  2.0  0  0.00  45. 1005.  2 NAD-SFC NoSubs
 9  3  1  60  5   -4.1  0.091 -9.000 -9.000 -999.   66.     16.7  0.0330  0.32  1.00  1.50 194.0  15.0 290.2  2.0  0  0.00  45. 1005.  2 NAD-SFC NoSubs
 9  3  1  60  6   -8.0  0.126 -9.000 -9.000 -999.  107.     22.3  0.0380  0.32  1.00  2.10 178.0  15.0 290.1  2.0  0  0.00  46. 1005.  2 NAD-SFC NoSubs
 9  3  1  60  7   -4.1  0.091 -9.000 -9.000 -999.   66.     16.7  0.0330  0.32  1.00  1.50 185.0  15.0 289.9  2.0  0  0.00  47. 1006.  2 NAD-SFC NoSubs
 9  3  1  60  8    6.4  0.116  0.177  0.006   31.   94.    -21.6  0.0330  0.32  0.34  1.50 192.0  15.0 290.0  2.0  0  0.00  48. 1006.  2 NAD-SFC NoSubs
 9  3  1  60  9   39.1  0.065  0.460  0.006   89.   40.     -1.0  0.0340  0.32  0.20  0.50 228.0  15.0 290.8  2.0  0  0.00  48. 1006.  2 NAD-SFC NoSubs
 9  3  1  60 10   66.9  0.144  0.837  0.005  314.  131.     -4.0  0.1620  0.32  0.16  1.00 304.0  15.0 292.5  2.0  0  0.00  48. 1006.  2 NAD-SFC NoSubs
 9  3  1  60 11   87.0  0.199  1.058  0.005  489.  213.     -8.1  0.1880  0.32  0.15  1.50 334.0  15.0 294.9  2.0  0  0.00  40. 1006.  2 NAD-SFC NoSubs
 9  3  1  60 12   97.9  0.296  1.199  0.005  632.  386.    -23.7  0.1880  0.32  0.15  2.60 347.0  15.0 295.8  2.0  0  0.00  39. 1005.  2 NAD-SFC NoSubs
 9  3  1  60 13   99.6  0.380  1.293  0.005  779.  561.    -49.2  0.1880  0.32  0.15  3.60 355.0  15.0 296.2  2.0  0  0.00  39. 1005.  2 NAD-SFC NoSubs
 9  3  1  60 14   92.1  0.420  1.323  0.005  900.  652.    -71.9  0.1900  0.32  0.15  4.10   5.0  15.0 296.5  2.0  0  0.00  40. 1004.  2 NAD-SFC NoSubs
 9  3  1  60 15   75.5  0.373  1.280  0.005  994.  549.    -61.5  0.1900  0.32  0.16  3.60  14.0  15.0 296.1  2.0  0  0.00  45. 1004.  2 NAD-SFC NoSubs
 9  3  1  60 16   50.8  0.364  1.153  0.005 1081.  528.    -85.1  0.1900  0.32  0.18  3.60  25.0  15.0 296.4  2.0  0  0.00  54. 1003.  2 NAD-SFC NoSubs
 9  3  1  60 17   19.1  0.305  0.840  0.005 1108.  407.   -133.1  0.1900  0.32  0.27  3.10  21.0  15.0 295.5  2.0  0  0.00  58. 1003.  2 NAD-SFC NoSubs
 9  3  1  60 18  -10.6  0.162 -9.000 -9.000 -999.  170.     35.6  0.1280  0.32  0.56  2.10  35.0  15.0 294.8  2.0  0  0.00  58. 1003.  2 NAD-SFC NoSubs
 9  3  1  60 19   -1.3  0.076 -9.000 -9.000 -999.   55.     30.1  0.1280  0.32  1.00  0.50  49.0  15.0 293.9  2.0  0  0.00  60. 1003.  2 NAD-SFC NoSubs
 9  3  1  60 20   -2.2  0.076 -9.000 -9.000 -999.   50.     17.3  0.0310  0.32  1.00  1.00 249.0  15.0 292.9  2.0  0  0.00  65. 1004.  2 NAD-SFC NoSubs
 9  3  1  60 21   -4.0  0.091 -9.000 -9.000 -999.   65.     16.5  0.0310  0.32  1.00  1.50 249.0  15.0 292.4  2.0  0  0.00  67. 1004.  2 NAD-SFC NoSubs
 9  3  1  60 22   -4.1  0.092 -9.000 -9.000 -999.   67.     16.8  0.0340  0.32  1.00  1.50 239.0  15.0 292.1  2.0  0  0.00  64. 1004.  2 NAD-SFC NoSubs
 9  3  1  60 23   -1.0  0.066 -9.000 -9.000 -999.   41.     26.5  0.0310  0.32  1.00  0.50 263.0  15.0 291.8  2.0  0  0.00  61. 1005.  2 NAD-SFC NoSubs
 9  3  1  60 24   -1.5  0.080 -9.000 -9.000 -999.   54.     31.1  0.1900  0.32  1.00  0.50  10.0  15.0 291.4  2.0  0  0.00  58. 1005.  2 NAD-SFC NoSubs
 9  3  2  61  1   -3.5  0.095 -9.000 -9.000 -999.   70.     22.0  0.1900  0.32  1.00  1.00  15.0  15.0 291.2  2.0  0  0.00  56. 1005.  2 NAD-SFC NoSubs
 9  3  2  61  2  -34.9  0.328 -9.000 -9.000 -999.  450.     90.2  0.1280  0.32  1.00  4.10  39.0  15.0 290.6  2.0  0  0.00  59. 1005.  2 NAD-SFC NoSubs
 9  3  2  61  3  -53.1  0.508 -9.000 -9.000 -999.  868.    221.2  0.1900  0.32  1.00  5.70  19.0  15.0 289.2  2.0  0  0.00  71. 1006.  3 NAD-SFC NoSubs
 9  3  2  61  4  -47.4  0.452 -9.000 -9.000 -999.  733.    174.8  0.1900  0.32  1.00  5.10  10.0  15.0 288.2  2.0  0  0.00  81. 1006.  3 NAD-SFC NoSubs
 9  3  2  61  5  -33.0  0.315 -9.000 -9.000 -999.  438.     84.5  0.1900  0.32  1.00  3.60  10.0  15.0 287.9  2.0  0  0.25  85. 1006.  3 NAD-SFC NoSubs
 9  3  2  61  6  -20.7  0.223 -9.000 -9.000 -999.  258.     48.1  0.1900  0.32  1.00  2.60  15.0  15.0 287.8  2.0  0  0.25  88. 1006.  4 NAD-SFC NoSubs
 9  3  2  61  7   -5.8  0.114 -9.000 -9.000 -999.   99.     23.1  0.1280  0.32  1.00  1.50  36.0  15.0 287.5  2.0  0  0.25  90. 1007.  4 NAD-SFC NoSubs
 9  3  2  61  8    8.4  0.126  0.265  0.005   79.  108.    -21.5  0.0510  0.32  0.33  1.50  95.0  15.0 287.5  2.0  0  0.25  90. 1007.  4 NAD-SFC NoSubs
 9  3  2  61  9   40.1  0.182  0.654  0.006  250.  186.    -13.4  0.0460  0.32  0.20  2.10 123.0  15.0 288.0  2.0  0  0.00  87. 1007.  4 NAD-SFC NoSubs
 9  3  2  61 10   67.1  0.255  0.923  0.006  420.  309.    -22.1  0.0460  0.32  0.16  3.10 137.0  15.0 289.9  2.0  0  0.00  70. 1006.  4 NAD-SFC NoSubs
 9  3  2  61 11   86.4  0.324  1.099  0.006  551.  442.    -35.2  0.0460  0.32  0.15  4.10 147.0  15.0 291.8  2.0  0  0.00  59. 1006.  4 NAD-SFC NoSubs
 9  3  2  61 12   97.0  0.262  1.218  0.006  668.  324.    -16.6  0.0460  0.32  0.15  3.10 148.0  15.0 293.2  2.0  0  0.00  54. 1005.  4 NAD-SFC NoSubs
 9  3  2  61 13  100.1  0.191  1.285  0.005  759.  202.     -6.2  0.0380  0.32  0.15  2.10 171.0  15.0 294.9  2.0  0  0.00  48. 1005.  3 NAD-SFC NoSubs
 9  3  2  61 14   92.8  0.280  1.293  0.005  835.  355.    -21.1  0.0340  0.32  0.15  3.60 226.0  15.0 295.8  2.0  0  0.00  43. 1004.  3 NAD-SFC NoSubs
 9  3  2  61 15   76.5  0.214  1.239  0.005  892.  240.    -11.5  0.0340  0.32  0.16  2.60 236.0  15.0 295.8  2.0  0  0.00  50. 1004.  3 NAD-SFC NoSubs
 9  3  2  61 16   51.6  0.356  1.101  0.005  927.  509.    -78.2  0.0310  0.32  0.18  5.10 258.0  15.0 295.0  2.0  0  0.00  54. 1005.  3 NAD-SFC NoSubs
 9  3  2  61 17   19.0  0.411  0.792  0.005  936.  633.   -327.6  0.0310  0.32  0.27  6.20 250.0  15.0 292.6  2.0  0  0.00  60. 1005.  2 NAD-SFC NoSubs
 9  3  2  61 18  -30.9  0.352 -9.000 -9.000 -999.  504.    126.8  0.0310  0.32  0.55  5.70 246.0  15.0 291.0  2.0  0  0.00  64. 1006.  2 NAD-SFC NoSubs
 9  3  2  61 19  -30.1  0.281 -9.000 -9.000 -999.  360.     66.1  0.0310  0.32  1.00  4.60 263.0  15.0 290.1  2.0  0  0.00  67. 1007.  2 NAD-SFC NoSubs
 9  3  2  61 20  -26.7  0.249 -9.000 -9.000 -999.  298.     51.7  0.0310  0.32  1.00  4.10 268.0  15.0 289.2  2.0  0  0.00  71. 1008.  2 NAD-SFC NoSubs
 9  3  2  61 21  -27.7  0.257 -9.000 -9.000 -999.  313.     55.0  0.0780  0.32  1.00  3.60 285.0  15.0 288.1  2.0  0  0.00  76. 1008.  2 NAD-SFC NoSubs
 9  3  2  61 22  -15.5  0.181 -9.000 -9.000 -999.  187.     34.5  0.0780  0.32  1.00  2.60 294.0  15.0 286.9  2.0  0  0.00  80. 1008.  2 NAD-SFC NoSubs
 9  3  2  61 23   -3.5  0.095 -9.000 -9.000 -999.   73.     22.0  0.1880  0.32  1.00  1.00 330.0  15.0 286.0  2.0  0  0.00  84. 1009.  2 NAD-SFC NoSubs
 9  3  2  61 24   -3.5  0.095 -9.000 -9.000 -999.   71.     22.0  0.1900  0.32  1.00  1.00  19.0  15.0 285.2  2.0  0  0.00  86. 1008.  2 NAD-SFC NoSubs
 9  3  3  62  1   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.1900  0.32  1.00  0.50  29.0  15.0 284.8  2.0  0  0.00  86. 1008.  2 NAD-SFC NoSubs
 9  3  3  62  2   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.1900  0.32  1.00  0.50  28.0  15.0 284.2  2.0  0  0.00  85. 1008.  2 NAD-SFC NoSubs
 9  3  3  62  3   -1.2  0.073 -9.000 -9.000 -999.   47.     29.1  0.0760  0.32  1.00  0.50  69.0  15.0 283.8  2.0  0  0.00  84. 1008.  2 NAD-SFC NoSubs
 9  3  3  62  4   -2.5  0.080 -9.000 -9.000 -999.   54.     18.3  0.0510  0.32  1.00  1.00  93.0  15.0 283.2  2.0  0  0.00  86. 1008.  3 NAD-SFC NoSubs
 9  3  3  62  5   -4.6  0.097 -9.000 -9.000 -999.   73.     18.1  0.0510  0.32  1.00  1.50  95.0  15.0 282.8  2.0  0  0.00  90. 1008.  3 NAD-SFC NoSubs
 9  3  3  62  6   -8.7  0.133 -9.000 -9.000 -999.  116.     24.0  0.0510  0.32  1.00  2.10 104.0  15.0 282.0  2.0  0  0.00  94. 1008.  3 NAD-SFC NoSubs
 9  3  3  62  7  -13.4  0.167 -9.000 -9.000 -999.  164.     31.3  0.0510  0.32  1.00  2.60  99.0  15.0 281.0  2.0  0  0.00  99. 1009.  4 NAD-SFC NoSubs
 9  3  3  62  8    8.4  0.126  0.249  0.006   66.  108.    -21.6  0.0510  0.32  0.33  1.50  98.0  15.0 281.8  2.0  0  0.00  93. 1009.  4 NAD-SFC NoSubs
 9  3  3  62  9   40.6  0.142  0.639  0.005  231.  129.     -6.4  0.0460  0.32  0.20  1.50 133.0  15.0 285.6  2.0  0  0.00  71. 1009.  4 NAD-SFC NoSubs
 9  3  3  62 10   67.5  0.145  0.858  0.005  336.  132.     -4.0  0.0380  0.32  0.16  1.50 154.0  15.0 287.4  2.0  0  0.00  60. 1008.  4 NAD-SFC NoSubs
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9	3	3	62	11	86.6	0.117	1.057	0.005	490.	96.	-1.7	0.0460	0.32	0.15	1.00	147.0	15.0	288.8	2.0	0	0.00	52.	1008.	4	NAD-SFC	NoSubs
9	3	3	62	12	97.1	0.115	1.222	0.005	676.	94.	-1.4	0.0380	0.32	0.15	1.00	165.0	15.0	289.8	2.0	0	0.00	46.	1007.	4	NAD-SFC	NoSubs
9	3	3	62	13	99.9	0.075	1.381	0.005	947.	49.	-1.0	0.0380	0.32	0.15	0.50	166.0	15.0	290.8	2.0	0	0.00	42.	1006.	3	NAD-SFC	NoSubs
9	3	3	62	14	92.6	0.072	1.430	0.005	1133.	47.	-1.0	0.0330	0.32	0.15	0.50	206.0	15.0	291.5	2.0	0	0.00	38.	1005.	3	NAD-SFC	NoSubs
9	3	3	62	15	76.3	0.242	1.391	0.005	1265.	286.	-16.6	0.0310	0.32	0.16	3.10	253.0	15.0	291.9	2.0	0	0.00	37.	1004.	3	NAD-SFC	NoSubs
9	3	3	62	16	51.5	0.392	1.245	0.005	1342.	589.	-104.8	0.0310	0.32	0.18	5.70	253.0	15.0	291.6	2.0	0	0.00	42.	1004.	3	NAD-SFC	NoSubs
9	3	3	62	17	20.1	0.283	0.912	0.005	1355.	368.	-100.7	0.0310	0.32	0.27	4.10	252.0	15.0	290.6	2.0	0	0.00	55.	1004.	3	NAD-SFC	NoSubs
9	3	3	62	18	-26.1	0.314	-9.000	-9.000	-999.	422.	106.5	0.0310	0.32	0.55	5.10	249.0	15.0	288.8	2.0	0	0.00	60.	1004.	3	NAD-SFC	NoSubs
9	3	3	62	19	-32.9	0.313	-9.000	-9.000	-999.	420.	83.1	0.0310	0.32	1.00	5.10	243.0	15.0	286.8	2.0	0	0.00	69.	1004.	3	NAD-SFC	NoSubs
9	3	3	62	20	-30.1	0.285	-9.000	-9.000	-999.	366.	68.9	0.0340	0.32	1.00	4.60	216.0	15.0	285.8	2.0	0	0.00	75.	1004.	3	NAD-SFC	NoSubs
9	3	3	62	21	-26.6	0.251	-9.000	-9.000	-999.	303.	53.5	0.0330	0.32	1.00	4.10	202.0	15.0	285.2	2.0	0	0.00	76.	1004.	3	NAD-SFC	NoSubs
9	3	3	62	22	-23.8	0.225	-9.000	-9.000	-999.	256.	42.7	0.0380	0.32	1.00	3.60	178.0	15.0	285.1	2.0	0	0.00	75.	1004.	3	NAD-SFC	NoSubs
9	3	3	62	23	-17.9	0.191	-9.000	-9.000	-999.	201.	35.0	0.0380	0.32	1.00	3.10	151.0	15.0	285.0	2.0	0	0.00	73.	1004.	3	NAD-SFC	NoSubs
9	3	3	62	24	-24.6	0.232	-9.000	-9.000	-999.	269.	45.7	0.0460	0.32	1.00	3.60	135.0	15.0	285.0	2.0	0	0.00	73.	1004.	3	NAD-SFC	NoSubs
9	3	4	63	1	-27.2	0.267	-9.000	-9.000	-999.	331.	62.4	0.0460	0.32	1.00	4.10	130.0	15.0	284.9	2.0	0	0.00	73.	1004.	4	NAD-SFC	NoSubs
9	3	4	63	2	-27.2	0.267	-9.000	-9.000	-999.	331.	62.4	0.0460	0.32	1.00	4.10	145.0	15.0	284.8	2.0	0	0.00	73.	1004.	4	NAD-SFC	NoSubs
9	3	4	63	3	-26.3	0.258	-9.000	-9.000	-999.	314.	58.3	0.0380	0.32	1.00	4.10	153.0	15.0	284.6	2.0	0	0.00	73.	1004.	4	NAD-SFC	NoSubs
9	3	4	63	4	-23.0	0.225	-9.000	-9.000	-999.	256.	44.3	0.0380	0.32	1.00	3.60	156.0	15.0	284.6	2.0	0	0.00	74.	1004.	4	NAD-SFC	NoSubs
9	3	4	63	5	-17.7	0.192	-9.000	-9.000	-999.	202.	35.7	0.0380	0.32	1.00	3.10	158.0	15.0	284.4	2.0	0	0.00	75.	1005.	4	NAD-SFC	NoSubs
9	3	4	63	6	-7.9	0.126	-9.000	-9.000	-999.	108.	22.8	0.0380	0.32	1.00	2.10	176.0	15.0	283.9	2.0	0	0.25	78.	1005.	4	NAD-SFC	NoSubs
9	3	4	63	7	-2.2	0.075	-9.000	-9.000	-999.	50.	17.1	0.0310	0.32	0.73	1.00	247.0	15.0	283.4	2.0	0	0.00	82.	1006.	4	NAD-SFC	NoSubs
9	3	4	63	8	9.5	0.306	0.261	0.005	67.	407.	-271.1	0.0310	0.32	0.32	4.60	259.0	15.0	284.8	2.0	0	0.00	79.	1007.	4	NAD-SFC	NoSubs
9	3	4	63	9	41.5	0.304	0.661	0.005	250.	402.	-60.7	0.0780	0.32	0.20	3.60	287.0	15.0	286.2	2.0	0	0.00	65.	1007.	4	NAD-SFC	NoSubs
9	3	4	63	10	15.4	0.259	0.506	0.005	301.	318.	-101.3	0.1880	0.32	0.16	2.60	334.0	15.0	287.1	2.0	0	0.00	57.	1007.	10	NAD-SFC	NoSubs
9	3	4	63	11	20.3	0.222	0.587	0.005	357.	251.	-48.2	0.1880	0.32	0.15	2.10	330.0	15.0	287.2	2.0	0	0.00	56.	1007.	10	NAD-SFC	NoSubs
9	3	4	63	12	23.0	0.174	0.651	0.005	431.	174.	-20.5	0.1880	0.32	0.15	1.50	336.0	15.0	287.2	2.0	0	0.00	58.	1007.	10	NAD-SFC	NoSubs
9	3	4	63	13	80.6	0.198	1.162	0.005	700.	211.	-8.6	0.1900	0.32	0.15	1.50	3.0	15.0	287.9	2.0	0	0.00	55.	1007.	7	NAD-SFC	NoSubs
9	3	4	63	14	88.7	0.200	1.308	0.005	905.	214.	-8.0	0.1880	0.32	0.15	1.50	338.0	15.0	288.2	2.0	0	0.51	52.	1006.	5	NAD-SFC	NoSubs
9	3	4	63	15	75.6	0.248	1.304	0.005	1053.	296.	-18.0	0.1880	0.32	0.16	2.10	353.0	15.0	288.8	2.0	0	0.00	46.	1006.	4	NAD-SFC	NoSubs
9	3	4	63	16	51.7	0.232	1.182	0.005	1146.	268.	-21.6	0.1620	0.32	0.18	2.10	329.0	15.0	289.2	2.0	0	0.00	41.	1006.	3	NAD-SFC	NoSubs
9	3	4	63	17	20.4	0.255	0.875	0.005	1180.	310.	-73.5	0.1620	0.32	0.26	2.60	314.0	15.0	289.0	2.0	0	0.00	46.	1006.	3	NAD-SFC	NoSubs
9	3	4	63	18	-21.1	0.259	-9.000	-9.000	-999.	316.	73.7	0.0780	0.32	0.54	3.60	294.0	15.0	287.9	2.0	0	0.00	49.	1006.	3	NAD-SFC	NoSubs
9	3	4	63	19	-35.2	0.332	-9.000	-9.000	-999.	460.	93.6	0.0780	0.32	1.00	4.60	283.0	15.0	285.8	2.0	0	0.00	57.	1007.	3	NAD-SFC	NoSubs
9	3	4	63	20	-31.4	0.295	-9.000	-9.000	-999.	385.	73.2	0.0780	0.32	1.00	4.10	278.0	15.0	283.9	2.0	0	0.00	67.	1007.	3	NAD-SFC	NoSubs
9	3	4	63	21	-27.5	0.257	-9.000	-9.000	-999.	313.	55.5	0.0780	0.32	1.00	3.60	279.0	15.0	282.9	2.0	0	0.00	73.	1008.	3	NAD-SFC	NoSubs
9	3	4	63	22	-15.5	0.181	-9.000	-9.000	-999.	187.	34.7	0.0780	0.32	1.00	2.60	290.0	15.0	282.5	2.0	0	0.00	76.	1009.	3	NAD-SFC	NoSubs
9	3	4	63	23	-2.8	0.084	-9.000	-9.000	-999.	64.	19.4	0.0780	0.32	1.00	1.00	299.0	15.0	282.1	2.0	0	0.00	78.	1009.	3	NAD-SFC	NoSubs
9	3	4	63	24	-1.0	0.067	-9.000	-9.000	-999.	42.	26.8	0.0330	0.32	1.00	0.50	207.0	15.0	281.8	2.0	0	0.00	80.	1009.	3	NAD-SFC	NoSubs
9	3	5	64	1	-1.0	0.067	-9.000	-9.000	-999.	42.	26.8	0.0330	0.32	1.00	0.50	190.0	15.0	281.2	2.0	0	0.00	82.	1010.	3	NAD-SFC	NoSubs
9	3	5	64	2	-2.3	0.077	-9.000	-9.000	-999.	51.	17.5	0.0330	0.32	1.00	1.00	200.0	15.0	280.8	2.0	0	0.00	85.	1010.	3	NAD-SFC	NoSubs
9	3	5	64	3	-2.3	0.077	-9.000	-9.000	-999.	51.	17.5	0.0340	0.32	1.00	1.00	216.0	15.0	280.4	2.0	0	0.00	87.	1010.	3	NAD-SFC	NoSubs
9	3	5	64	4	-4.1	0.091	-9.000	-9.000	-999.	66.	16.8	0.0340	0.32	1.00	1.50	237.0	15.0	279.9	2.0	0	0.00	89.	1010.	4	NAD-SFC	NoSubs
9	3	5	64	5	-4.0	0.090	-9.000	-9.000	-999.	65.	16.5	0.0310	0.32	1.00	1.50	260.0	15.0	279.4	2.0	0	0.00	91.	1011.	4	NAD-SFC	NoSubs
9	3	5	64	6	-4.0	0.090	-9.000	-9.000	-999.	65.	16.5	0.0310	0.32	1.00	1.50	267.0	15.0	279.0	2.0	0	0.00	92.	1011.	4	NAD-SFC	NoSubs
9	3	5	64	7	-2.2	0.075	-9.000	-9.000	-999.	49.	17.2	0.0310	0.32	0.71	1.00	265.0	15.0	278.8	2.0	0	0.00	94.	1011.	4	NAD-SFC	NoSubs
9	3	5	64	8	9.1	0.101	0.271	0.005	79.	77.	-10.2	0.0780	0.32	0.32	1.00	291.0	15.0	280.1	2.0	0	0.00	87.	1012.	3	NAD-SFC	NoSubs
9	3	5	64	9	41.8	-9.000	-9.000	-9.000	216.	-999.	-99999.0	0.0879	0.32	0.20	0.00	0.0	15.0	281.9	2.0	0	0.00	78.	1012.	3	NAD-SFC	NoSubs
9	3	5	64	10	69.1	-9.000	-9.000	-9.000	408.	-999.	-99999.0	0.0879	0.32	0.16	0.00	0.0	15.0	283.2	2.0	0	0.00	72.	1012.	3	NAD-SFC	NoSubs
9	3	5	64	11	88.5	-9.000	-9.000	-9.000	597.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	284.5	2.0	0	0.00	64.	1011.	3	NAD-SFC	NoSubs
9	3	5	64	12	99.1	-9.000	-9.000	-9.000	809.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	285.8	2.0	0	0.00	56.	1010.	3	NAD-SFC	NoSubs
9	3	5	64	13	99.5	0.086	1.403	0.005	1001.	60.	-1.0	0.0780	0.32	0.15	0.50	295.0	15.0	286.8	2.0	0	0.00	49.	1009.	4	NAD-SFC	NoSubs
9	3	5	64	14	93.2	0.150	1.438	0.005	1148.	139.	-3.2	0.1620	0.32	0.15	1.00	314.0	15.0	287.4	2.0	0	0.00	44.	1008.	3	NAD-SFC	NoSubs
9	3	5	64	15	76.8	0.241	1.389	0.005	1256.	283.	-16.3	0.1620	0.32	0.16	2.10	320.0	15.0	287.8	2.0	0	0.00	41.	1008.	3	NAD-SFC	NoSubs
9	3	5	64	16	52.1	0.322	1.243	0.005	1325.	439.	-57.6	0.1880	0.32	0.18	3.10	341.0	15.0	287.9	2.0	0	0.00	41.	1007.	3	NAD-SFC	NoSubs
9	3	5	64	17	20.7	0.306	0.919	0.005	1347.	406.	-123.8	0.1880	0.32	0.26	3.10	349.0	15.0	287.5	2.0	0	0.00	48.	1007.	3	NAD-SFC	NoSubs
9	3	5	64	18	-21.6	0.270	-9.000	-9.000	-999.	337.	81.7	0.1880	0.32	0.53	3.10	353.0	15.0	286.8	2.0	0	0.00	52.	1007.	3	NAD-SFC	NoSubs
9	3	5	64	19	-28.4	0.268	-9.000	-9.000	-999.	333.	60.9	0.1880	0.32	1.00	3.10	339.0	15.0	285.8	2.0	0	0.00	54.	1008.	3	NAD-SFC	NoSubs
9	3	5	64	20	-26.5	0.259	-9.000	-9.000	-999.	316.	58.7	0.1620	0.32	1.00	3.10	324.0	15.0	285.2	2.0	0	0.00	57.	1008.	4	NAD-SFC	NoSubs
9	3	5	64	21	-31.1	0.303	-9.000	-9.000	-999.	399.	80.2	0.1620	0.32	1.00	3.60	306.0	15.0	284.6	2.0	0	0.00	62.	1009.	4	NAD-SFC	NoSubs
9	3	5	64	22	-21.9	0.220	-9.000	-9.000	-999.	250.	43.6	0.0780	0.32	1.00	3.10	298.0	15.0	284.2	2.0	0	0.00	66.	1009.	4	NAD-SFC	NoSubs
9	3	5	64	23	-19.6	0.214	-9.000	-9.000	-999.	238.	45.1	0.1620	0.32	1.00	2.60	324.0	15.0	284.1	2.0	0	0.00	68.	1010.	4	NAD-SFC	NoSubs
9	3	5	64	24	-19.7	0.214	-9.000	-9.000	-999.	238.	45.1	0.1620	0.32	1.00	2.60	317.0	15.0	283.8	2.0	0	0.00	70.	1010.	4	NAD-SFC	NoSubs
9	3	6	65	1	-32.5	0.302	-9.000	-9.000	-999.	399.	76.6	0.1620	0.32	1.00	3.60	306.0	15.0	282.8	2.0	0	0.00	72.	1010.	3	NAD-SFC	NoSubs
9	3	6	65	2	-37.4	0.346	-9.000	-9.000	-999.	489.	100.0	0.1620	0.32	1.00	4.10	320.0	15.0	281.2	2.0	0	0.00	73.	1011.	3	NAD-SFC	NoSubs
9	3	6	65	3	-32.8	0.302	-9.000	-9.000	-999.	400.	75.9	0.1620	0.32	1.00	3.60	320.0	15.0	280.2	2.0	0	0.00	73.	1011.	3	NAD-SFC	NoSubs
9	3	6	65	4	-28.1	0.258	-9.000	-9.000	-999.	315.	55.2	0.1620	0.32	1.00	3.10	317.0	15.0	279.4	2.0	0	0.00	75.	1011.	3	NAD-SFC	NoSubs
9	3	6	65	5	-20.2	0.214	-9.000	-9.000	-999.	238.	43.7	0.1620	0.32	1.00	2.60	310.0	15.0	278.9	2.0	0	0.00	77.	1011.	3	NAD-SFC	NoSubs
9	3	6	65	6	-20.2	0.214	-9.000	-9.000	-999.	237.	43.6	0.1620	0.32	1.00	2.60	301.0	15.0	278.5	2.0	0	0.00	78.	1012.	3	NAD-SFC	NoSubs
9	3	6	65	7	-12.9	0.170	-9.000	-9.000	-999.	168.	34.1	0.1620	0.32	0.70	2.10	300.0	15.0	278.2	2.0	0	0.00	80.	1012.	3	NAD-SFC	NoSubs
9	3	6	65	8	9.8	0.246	0.265	0.005	68.	293.	-136.5	0.1620	0.32	0.31	2.60	325.0	15.0	279.6	2.0	0	0.00	71.	1012.	3	NAD-SFC	NoSubs
9	3	6	65	9	42.6	0.179	0.612	0.005	194.	183.	-12.2	0.1620	0.32	0.20	1.50	328.0	15.0	281.4	2.0	0	0.00	61.	1012.	3	NAD-SFC	NoSubs
9	3	6	65	10	69.5	0.094	0.863	0.005	334.	72.	-1.1	0.1620	0.32	0.16	0.50	311.0	15.0	283.0	2.0	0	0.00	52.	1012.	2	NAD-SFC	NoSubs
9	3	6	65	11	89.3	0.129	1.074	0.005	501.	112.	-2.2	0.0780	0.32	0.15	1.00	298.0	15.0	284.4	2.0	0	0.00	44.	1012.	3	NAD-SFC	NoSubs
9	3	6	65	12	99.8	0.196	1.232	0.005	676.	209.	-6.8	0.1620	0.32	0.15	1.50	310.0	15.0	285.4	2.0	0	0.00	38.	1011.	3	NAD-SFC	NoSubs
9	3	6	65	13	101.4	0.288	1.362	0.005	900.	371.	-21.2	0.1620	0.32	0.15	2.60	322.0	15.0	286.2	2.0	0	0.00	34.	1010.	3	NAD-SFC	NoSubs
9	3	6	65	14	93.9	0.327	1.416	0.005	1089.	448.	-33.4	0.1620	0.32	0.15	3.10	327.0	15.0	286.9	2.0	0	0.00	32.	1009.	3	NAD-SFC	NoSubs
9	3	6	65	15	77.4	0.414	1.385	0.005	1234.	640.	-82.7	0.1880	0.32	0.16	4.10	341.0	15.0	287.1	2.0	0	0.00	33.	1008.	3	NAD-SFC	NoSubs

9	3	6	65	16	52.6	0.364	1.245	0.005	1321.	529.	-82.4	0.1880	0.32	0.18	3.60	359.0	15.0	286.6	2.0	0	0.00	39.	1008.	3	NAD-SFC	NoSubs
9	3	6	65	17	21.1	0.264	0.926	0.005	1353.	332.	-78.8	0.1900	0.32	0.26	2.60	11.0	15.0	286.2	2.0	0	0.00	48.	1008.	3	NAD-SFC	NoSubs
9	3	6	65	18	7.4	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	0.52	0.00	0.0	15.0	285.8	2.0	0	0.00	50.	1008.	4	NAD-SFC	NoSubs
9	3	6	65	19	-6.3	0.120	-9.000	-9.000	-999.	100.	24.6	0.1620	0.32	1.00	1.50	326.0	15.0	284.9	2.0	0	0.00	54.	1009.	4	NAD-SFC	NoSubs
9	3	6	65	20	-26.3	0.269	-9.000	-9.000	-999.	334.	66.3	0.1880	0.32	1.00	3.10	345.0	15.0	283.8	2.0	0	0.00	63.	1009.	5	NAD-SFC	NoSubs
9	3	6	65	21	-35.5	0.360	-9.000	-9.000	-999.	518.	118.3	0.1880	0.32	1.00	4.10	357.0	15.0	282.1	2.0	0	0.00	75.	1010.	5	NAD-SFC	NoSubs
9	3	6	65	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	281.2	2.0	0	0.00	82.	1010.	5	NAD-SFC	NoSubs
9	3	6	65	23	-3.1	0.091	-9.000	-9.000	-999.	66.	21.9	0.1900	0.32	1.00	1.00	2.0	15.0	280.8	2.0	0	0.00	85.	1010.	6	NAD-SFC	NoSubs
9	3	6	65	24	-1.2	0.074	-9.000	-9.000	-999.	48.	29.3	0.1620	0.32	1.00	0.50	310.0	15.0	280.2	2.0	0	0.00	88.	1010.	6	NAD-SFC	NoSubs
9	3	7	66	1	-1.0	0.068	-9.000	-9.000	-999.	43.	27.5	0.0780	0.32	1.00	0.50	284.0	15.0	279.8	2.0	0	0.00	92.	1010.	6	NAD-SFC	NoSubs
9	3	7	66	2	-1.0	0.068	-9.000	-9.000	-999.	43.	27.5	0.0780	0.32	1.00	0.50	282.0	15.0	279.1	2.0	0	0.00	96.	1010.	6	NAD-SFC	NoSubs
9	3	7	66	3	-1.1	0.070	-9.000	-9.000	-999.	45.	28.2	0.0780	0.32	1.00	0.50	291.0	15.0	278.8	2.0	0	0.00	98.	1010.	5	NAD-SFC	NoSubs
9	3	7	66	4	-2.6	0.082	-9.000	-9.000	-999.	56.	19.1	0.0780	0.32	1.00	1.00	296.0	15.0	278.8	2.0	0	0.00	98.	1010.	5	NAD-SFC	NoSubs
9	3	7	66	5	-3.1	0.091	-9.000	-9.000	-999.	65.	21.3	0.1620	0.32	1.00	1.00	307.0	15.0	279.0	2.0	0	0.00	97.	1010.	5	NAD-SFC	NoSubs
9	3	7	66	6	-3.1	0.091	-9.000	-9.000	-999.	65.	21.3	0.1620	0.32	1.00	1.00	301.0	15.0	279.2	2.0	0	0.00	95.	1011.	5	NAD-SFC	NoSubs
9	3	7	66	7	-2.6	0.082	-9.000	-9.000	-999.	56.	19.1	0.0780	0.32	0.68	1.00	296.0	15.0	279.2	2.0	0	0.00	95.	1011.	5	NAD-SFC	NoSubs
9	3	7	66	8	11.3	0.118	0.270	0.005	63.	97.	-13.2	0.1620	0.32	0.31	1.00	301.0	15.0	279.2	2.0	0	0.00	95.	1012.	4	NAD-SFC	NoSubs
9	3	7	66	9	43.3	0.136	0.652	0.005	230.	121.	-5.3	0.1620	0.32	0.19	1.00	306.0	15.0	279.4	2.0	0	0.00	93.	1012.	3	NAD-SFC	NoSubs
9	3	7	66	10	70.2	-9.000	-9.000	-9.000	457.	-999.	-99999.0	0.0879	0.32	0.16	0.00	0.0	15.0	281.4	2.0	0	0.00	82.	1012.	2	NAD-SFC	NoSubs
9	3	7	66	11	89.8	0.084	1.175	0.005	651.	59.	-1.0	0.0780	0.32	0.15	0.50	286.0	15.0	283.5	2.0	0	0.00	69.	1011.	2	NAD-SFC	NoSubs
9	3	7	66	12	100.5	0.151	1.367	0.007	917.	141.	-3.1	0.1620	0.32	0.15	1.00	313.0	15.0	285.1	2.0	0	0.00	59.	1010.	2	NAD-SFC	NoSubs
9	3	7	66	13	102.1	0.151	1.423	0.008	1017.	141.	-3.0	0.1620	0.32	0.14	1.00	319.0	15.0	286.5	2.0	0	0.00	50.	1009.	2	NAD-SFC	NoSubs
9	3	7	66	14	94.5	0.154	1.411	0.008	1069.	146.	-3.5	0.1880	0.32	0.15	1.00	332.0	15.0	287.4	2.0	0	0.00	46.	1008.	2	NAD-SFC	NoSubs
9	3	7	66	15	77.9	0.191	1.340	0.008	1110.	200.	-8.0	0.1620	0.32	0.15	1.50	328.0	15.0	287.8	2.0	0	0.00	44.	1007.	2	NAD-SFC	NoSubs
9	3	7	66	16	52.9	0.281	1.187	0.008	1137.	358.	-37.8	0.1880	0.32	0.18	2.60	340.0	15.0	287.9	2.0	0	0.00	43.	1007.	2	NAD-SFC	NoSubs
9	3	7	66	17	21.1	0.264	0.876	0.008	1147.	325.	-78.2	0.1880	0.32	0.26	2.60	352.0	15.0	287.4	2.0	0	0.00	50.	1006.	2	NAD-SFC	NoSubs
9	3	7	66	18	-25.4	0.316	-9.000	-9.000	-999.	427.	111.8	0.1900	0.32	0.52	3.60	12.0	15.0	286.2	2.0	0	0.00	54.	1006.	2	NAD-SFC	NoSubs
9	3	7	66	19	-26.5	0.244	-9.000	-9.000	-999.	292.	49.2	0.1280	0.32	1.00	3.10	31.0	15.0	285.0	2.0	0	0.00	58.	1006.	2	NAD-SFC	NoSubs
9	3	7	66	20	-11.8	0.160	-9.000	-9.000	-999.	157.	31.2	0.1280	0.32	1.00	2.10	49.0	15.0	284.0	2.0	0	0.00	61.	1006.	2	NAD-SFC	NoSubs
9	3	7	66	21	-1.2	0.073	-9.000	-9.000	-999.	51.	29.1	0.0760	0.32	1.00	0.50	88.0	15.0	282.9	2.0	0	0.00	67.	1006.	2	NAD-SFC	NoSubs
9	3	7	66	22	-1.0	0.067	-9.000	-9.000	-999.	42.	26.9	0.0310	0.32	1.00	0.50	240.0	15.0	281.8	2.0	0	0.00	74.	1006.	2	NAD-SFC	NoSubs
9	3	7	66	23	-2.8	0.085	-9.000	-9.000	-999.	59.	19.5	0.0780	0.32	1.00	1.00	285.0	15.0	280.8	2.0	0	0.00	78.	1006.	2	NAD-SFC	NoSubs
9	3	7	66	24	-2.8	0.085	-9.000	-9.000	-999.	59.	19.5	0.0780	0.32	1.00	1.00	290.0	15.0	280.1	2.0	0	0.00	80.	1006.	2	NAD-SFC	NoSubs
9	3	8	67	1	-1.5	0.080	-9.000	-9.000	-999.	54.	31.2	0.1620	0.32	1.00	0.50	322.0	15.0	279.4	2.0	0	0.00	82.	1006.	2	NAD-SFC	NoSubs
9	3	8	67	2	-1.5	0.081	-9.000	-9.000	-999.	56.	31.6	0.1900	0.32	1.00	0.50	28.0	15.0	278.9	2.0	0	0.00	85.	1006.	2	NAD-SFC	NoSubs
9	3	8	67	3	-1.2	0.074	-9.000	-9.000	-999.	48.	29.3	0.0760	0.32	1.00	0.50	88.0	15.0	278.2	2.0	0	0.00	88.	1006.	2	NAD-SFC	NoSubs
9	3	8	67	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	277.8	2.0	0	0.00	90.	1006.	2	NAD-SFC	NoSubs
9	3	8	67	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	277.2	2.0	0	0.00	91.	1006.	2	NAD-SFC	NoSubs
9	3	8	67	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	276.9	2.0	0	0.00	92.	1006.	2	NAD-SFC	NoSubs
9	3	8	67	7	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	0.67	0.00	0.0	15.0	276.6	2.0	0	0.00	92.	1006.	2	NAD-SFC	NoSubs
9	3	8	67	8	10.5	-9.000	-9.000	-9.000	38.	-999.	-99999.0	0.0879	0.32	0.30	0.00	0.0	15.0	278.6	2.0	0	0.00	82.	1006.	2	NAD-SFC	NoSubs
9	3	8	67	9	43.8	-9.000	-9.000	-9.000	120.	-999.	-99999.0	0.0879	0.32	0.19	0.00	0.0	15.0	281.9	2.0	0	0.00	66.	1006.	2	NAD-SFC	NoSubs
9	3	8	67	10	71.4	-9.000	-9.000	-9.000	272.	-999.	-99999.0	0.0879	0.32	0.16	0.00	0.0	15.0	284.2	2.0	0	0.00	56.	1006.	2	NAD-SFC	NoSubs
9	3	8	67	11	91.0	-9.000	-9.000	-9.000	450.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	286.0	2.0	0	0.00	48.	1005.	2	NAD-SFC	NoSubs
9	3	8	67	12	101.6	0.099	1.191	0.007	596.	75.	-1.0	0.1620	0.32	0.15	0.50	300.0	15.0	287.2	2.0	0	0.00	43.	1004.	2	NAD-SFC	NoSubs
9	3	8	67	13	103.2	0.151	1.265	0.007	703.	141.	-3.0	0.1620	0.32	0.14	1.00	313.0	15.0	288.5	2.0	0	0.00	38.	1004.	2	NAD-SFC	NoSubs
9	3	8	67	14	95.5	0.195	1.277	0.007	780.	207.	-7.0	0.1620	0.32	0.15	1.50	315.0	15.0	289.2	2.0	0	0.00	34.	1003.	2	NAD-SFC	NoSubs
9	3	8	67	15	78.9	0.290	1.227	0.007	838.	376.	-27.7	0.1880	0.32	0.15	2.60	331.0	15.0	289.6	2.0	0	0.00	33.	1002.	2	NAD-SFC	NoSubs
9	3	8	67	16	53.8	0.365	1.096	0.007	875.	528.	-80.4	0.1880	0.32	0.18	3.60	342.0	15.0	289.5	2.0	0	0.00	34.	1002.	2	NAD-SFC	NoSubs
9	3	8	67	17	21.9	0.307	0.816	0.007	888.	409.	-117.6	0.1880	0.32	0.25	3.10	339.0	15.0	288.8	2.0	0	0.00	43.	1002.	2	NAD-SFC	NoSubs
9	3	8	67	18	-24.2	0.316	-9.000	-9.000	-999.	426.	116.3	0.1880	0.32	0.51	3.60	344.0	15.0	287.8	2.0	0	0.00	47.	1002.	2	NAD-SFC	NoSubs
9	3	8	67	19	-33.8	0.314	-9.000	-9.000	-999.	421.	81.5	0.1880	0.32	1.00	3.60	344.0	15.0	286.8	2.0	0	0.00	50.	1002.	2	NAD-SFC	NoSubs
9	3	8	67	20	-32.7	0.302	-9.000	-9.000	-999.	399.	75.4	0.1620	0.32	1.00	3.60	320.0	15.0	285.8	2.0	0	0.00	53.	1003.	2	NAD-SFC	NoSubs
9	3	8	67	21	-41.4	0.390	-9.000	-9.000	-999.	585.	128.3	0.1620	0.32	1.00	4.60	311.0	15.0	284.0	2.0	0	0.00	61.	1003.	3	NAD-SFC	NoSubs
9	3	8	67	22	-37.0	0.346	-9.000	-9.000	-999.	490.	100.5	0.1620	0.32	1.00	4.10	326.0	15.0	282.6	2.0	0	0.00	70.	1004.	3	NAD-SFC	NoSubs
9	3	8	67	23	-32.4	0.302	-9.000	-9.000	-999.	400.	76.4	0.1620	0.32	1.00	3.60	327.0	15.0	281.9	2.0	0	0.00	74.	1004.	3	NAD-SFC	NoSubs
9	3	8	67	24	-38.6	0.359	-9.000	-9.000	-999.	516.	107.5	0.1880	0.32	1.00	4.10	334.0	15.0	281.0	2.0	0	0.00	79.	1004.	3	NAD-SFC	NoSubs
9	3	9	68	1	-32.6	0.302	-9.000	-9.000	-999.	400.	75.9	0.1620	0.32	1.00	3.60	319.0	15.0	280.1	2.0	0	0.00	84.	1005.	3	NAD-SFC	NoSubs
9	3	9	68	2	-27.9	0.258	-9.000	-9.000	-999.	316.	55.2	0.1620	0.32	1.00	3.10	323.0	15.0	279.5	2.0	0	0.00	86.	1005.	3	NAD-SFC	NoSubs
9	3	9	68	3	-19.7	0.214	-9.000	-9.000	-999.	238.	44.6	0.1620	0.32	1.00	2.60	308.0	15.0	279.2	2.0	0	0.00	86.	1006.	4	NAD-SFC	NoSubs
9	3	9	68	4	-12.4	0.170	-9.000	-9.000	-999.	169.	35.8	0.1620	0.32	1.00	2.10	312.0	15.0	278.8	2.0	0	0.00	86.	1006.	5	NAD-SFC	NoSubs
9	3	9	68	5	-5.8	0.120	-9.000	-9.000	-999.	100.	26.7	0.1620	0.32	1.00	1.50	300.0	15.0	278.4	2.0	0	0.00	87.	1007.	7	NAD-SFC	NoSubs
9	3	9	68	6	-3.7	0.103	-9.000	-9.000	-999.	79.	26.5	0.0780	0.32	1.00	1.50	292.0	15.0	278.2	2.0	0	0.00	86.	1008.	10	NAD-SFC	NoSubs
9	3	9	68	7	-1.7	0.071	-9.000	-9.000	-999.	46.	19.2	0.0780	0.32	0.65	1.00	285.0	15.0	278.4	2.0	0	0.00	85.	1008.	10	NAD-SFC	NoSubs
9	3	9	68	8	0.4	0.375	0.049	0.006	11.	551.	-8888.0	0.1880	0.32	0.30	4.10	330.0	15.0	279.2	2.0	0	0.00	75.	1009.	10	NAD-SFC	NoSubs
9	3	9	68	9	37.1	0.399	0.619	0.006	230.	606.	-154.7	0.1880	0.32	0.19	4.10	332.0	15.0	280.1	2.0	0	0.00	70.	1009.	7	NAD-SFC	NoSubs
9	3	9	68	10	69.5	0.359	0.906	0.006	385.	518.	-60.0	0.1620	0.32	0.16	3.60	326.0	15.0	281.2	2.0	0	0.00	65.	1009.	5	NAD-SFC	NoSubs
9	3	9	68	11	87.5	0.335	1.089	0.006	530.	465.	-38.5	0.1880	0.32	0.15	3.10	335.0	15.0	282.4	2.0	0	0.00	59.	1008.	5	NAD-SFC	NoSubs
9	3	9	68	12	91.4	0.285	1.181	0.005	649.	367.	-22.9	0.1620	0.32	0.14	2.60	326.0	15.0	283.5	2.0	0	0.00	55.	1008.	6	NAD-SFC	NoSubs
9	3	9	68	13	98.7	0.338	1.266	0.005	739.	471.	-35.1	0.1880	0.32	0.14	3.10	332.0	15.0	284.5	2.0	0	0.00	51.	1007.	5	NAD-SFC	NoSubs
9	3	9	68	14	94.6	0.378	1.289	0.005	814.	558.	-51.3	0.1880	0.32	0.15	3.60	334.0	15.0	285.2	2.0	0	0.00	48.	1007.	4	NAD-SFC	NoSubs
9	3	9	68	15	78.4	0.457	1.239	0.005	872.	740.	-109.1	0.1880	0.32	0.15	4.60	330.0	15.0	285.6	2.0	0	0.00	46.	1007.	4	NAD-SFC	NoSubs
9	3	9	68	16	54.4	0.491	1.112	0.005	909.	826.	-196.0	0.1880	0.32	0.18	5.10	334.0	15.0	285.6	2.0	0	0.00	46.	1007.	3	NAD-SFC	NoSubs
9	3	9	68	17	22.7	0.349	0.836	0.005	924.	511.	-168.4	0.1880	0.32	0.25	3.60	335.0	15.0	285.1	2.0	0	0.00	54.	1007.	3	NAD-SFC	NoSubs
9	3	9	68	18	-25.3	0.349	-9.000	-9.000	-999.	495.	150.8	0.1620	0.32	0.50	4.10	325.0	15.0	283.8	2.0	0	0.00	60.	1007.	3	NAD-SFC	NoSubs
9	3	9	68	19	-32.4	0.302	-9.000	-9.000	-999.	400.	76.5	0.1620	0.32	1.00	3.60	316.0	15.0	282.5	2.0	0	0.00	63.	1008.	3	NAD-SFC	NoSubs
9	3	9	68	20	-27.8	0.258	-9.000	-9.000	-999.	316.	55.7	0.1620	0.32	1.00	3.10	316.0	15.0	281.8	2.0	0	0.00	63.	1008.	3	NAD-SFC	NoSubs

9	3	9	68	21	-20.1	0.214	-9.000	-9.000	-999.	238.	43.9	0.1620	0.32	1.00	2.60	328.0	15.0	281.1	2.0	0	0.00	63.	1009.	3	NAD-SFC NoSubs
9	3	9	68	22	-3.5	0.095	-9.000	-9.000	-999.	80.	21.9	0.1880	0.32	1.00	1.00	347.0	15.0	280.2	2.0	0	0.00	66.	1009.	3	NAD-SFC NoSubs
9	3	9	68	23	-1.2	0.073	-9.000	-9.000	-999.	47.	29.0	0.0760	0.32	1.00	0.50	77.0	15.0	279.4	2.0	0	0.00	70.	1010.	3	NAD-SFC NoSubs
9	3	9	68	24	-1.0	0.067	-9.000	-9.000	-999.	42.	26.9	0.0330	0.32	1.00	0.50	208.0	15.0	278.6	2.0	0	0.00	74.	1010.	3	NAD-SFC NoSubs
9	3	10	69	1	-5.2	0.105	-9.000	-9.000	-999.	81.	19.8	0.0780	0.32	1.00	1.50	289.0	15.0	278.0	2.0	0	0.00	75.	1010.	3	NAD-SFC NoSubs
9	3	10	69	2	-29.0	0.258	-9.000	-9.000	-999.	314.	53.3	0.1620	0.32	1.00	3.10	310.0	15.0	277.2	2.0	0	0.00	76.	1010.	2	NAD-SFC NoSubs
9	3	10	69	3	-6.7	0.121	-9.000	-9.000	-999.	114.	23.7	0.1620	0.32	1.00	1.50	319.0	15.0	276.6	2.0	0	0.00	79.	1010.	2	NAD-SFC NoSubs
9	3	10	69	4	-1.5	0.081	-9.000	-9.000	-999.	56.	31.7	0.1880	0.32	1.00	0.50	360.0	15.0	276.1	2.0	0	0.00	81.	1010.	2	NAD-SFC NoSubs
9	3	10	69	5	-1.2	0.074	-9.000	-9.000	-999.	48.	29.5	0.0780	0.32	1.00	0.50	277.0	15.0	275.8	2.0	0	0.00	82.	1011.	2	NAD-SFC NoSubs
9	3	10	69	6	-5.3	0.105	-9.000	-9.000	-999.	82.	19.6	0.0780	0.32	1.00	1.50	271.0	15.0	275.4	2.0	0	0.00	81.	1011.	2	NAD-SFC NoSubs
9	3	10	69	7	-10.0	0.144	-9.000	-9.000	-999.	131.	26.8	0.0780	0.32	0.64	2.10	289.0	15.0	275.2	2.0	0	0.00	80.	1011.	2	NAD-SFC NoSubs
9	3	10	69	8	12.0	0.208	0.280	0.005	66.	227.	-67.1	0.1620	0.32	0.29	2.10	327.0	15.0	277.1	2.0	0	0.00	66.	1012.	2	NAD-SFC NoSubs
9	3	10	69	9	45.3	0.137	0.612	0.005	183.	123.	-5.1	0.1620	0.32	0.19	1.00	305.0	15.0	278.8	2.0	0	0.00	57.	1012.	2	NAD-SFC NoSubs
9	3	10	69	10	72.7	0.126	0.878	0.005	335.	108.	-2.5	0.0780	0.32	0.16	1.00	280.0	15.0	280.4	2.0	0	0.00	50.	1011.	2	NAD-SFC NoSubs
9	3	10	69	11	92.1	0.085	1.114	0.005	540.	59.	-1.0	0.0780	0.32	0.15	0.50	292.0	15.0	282.2	2.0	0	0.00	44.	1010.	2	NAD-SFC NoSubs
9	3	10	69	12	102.6	0.102	1.265	0.008	710.	79.	-1.0	0.1880	0.32	0.14	0.50	335.0	15.0	283.8	2.0	0	0.00	40.	1009.	2	NAD-SFC NoSubs
9	3	10	69	13	104.1	0.156	1.333	0.009	819.	148.	-3.3	0.1880	0.32	0.14	1.00	339.0	15.0	285.2	2.0	0	0.00	37.	1008.	2	NAD-SFC NoSubs
9	3	10	69	14	96.4	0.254	1.346	0.010	908.	306.	-15.2	0.1880	0.32	0.15	2.10	346.0	15.0	286.2	2.0	0	0.00	35.	1007.	2	NAD-SFC NoSubs
9	3	10	69	15	79.8	0.332	1.294	0.011	974.	460.	-41.3	0.1880	0.32	0.15	3.10	350.0	15.0	286.9	2.0	0	0.00	34.	1006.	2	NAD-SFC NoSubs
9	3	10	69	16	54.7	-9.000	-9.000	-9.000	997.	-999.	-99999.0	0.0879	0.32	0.18	0.00	0.0	15.0	286.9	2.0	0	0.00	36.	1006.	2	NAD-SFC NoSubs
9	3	10	69	17	22.7	0.308	0.860	0.011	1006.	410.	-115.2	0.1900	0.32	0.25	3.10	8.0	15.0	286.4	2.0	0	0.00	44.	1006.	2	NAD-SFC NoSubs
9	3	10	69	18	-20.0	0.271	-9.000	-9.000	-999.	340.	89.5	0.1900	0.32	0.50	3.10	14.0	15.0	285.4	2.0	0	0.00	48.	1006.	2	NAD-SFC NoSubs
9	3	10	69	19	-21.5	0.223	-9.000	-9.000	-999.	253.	46.0	0.1900	0.32	1.00	2.60	16.0	15.0	284.2	2.0	0	0.00	51.	1007.	2	NAD-SFC NoSubs
9	3	10	69	20	-1.5	0.081	-9.000	-9.000	-999.	75.	31.4	0.1880	0.32	1.00	0.50	359.0	15.0	283.2	2.0	0	0.00	55.	1007.	2	NAD-SFC NoSubs
9	3	10	69	21	-1.0	0.067	-9.000	-9.000	-999.	42.	26.9	0.0310	0.32	1.00	0.50	246.0	15.0	282.1	2.0	0	0.00	60.	1007.	2	NAD-SFC NoSubs
9	3	10	69	22	-2.3	0.077	-9.000	-9.000	-999.	51.	17.4	0.0310	0.32	1.00	1.00	267.0	15.0	281.1	2.0	0	0.00	64.	1008.	2	NAD-SFC NoSubs
9	3	10	69	23	-1.2	0.074	-9.000	-9.000	-999.	48.	29.3	0.0780	0.32	1.00	0.50	278.0	15.0	280.4	2.0	0	0.00	66.	1008.	2	NAD-SFC NoSubs
9	3	10	69	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	279.5	2.0	0	0.00	69.	1008.	2	NAD-SFC NoSubs
9	3	11	70	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	278.9	2.0	0	0.00	72.	1008.	2	NAD-SFC NoSubs
9	3	11	70	2	-1.5	0.081	-9.000	-9.000	-999.	56.	31.6	0.1880	0.32	1.00	0.50	351.0	15.0	278.2	2.0	0	0.00	74.	1008.	2	NAD-SFC NoSubs
9	3	11	70	3	-1.5	0.081	-9.000	-9.000	-999.	56.	31.6	0.1880	0.32	1.00	0.50	330.0	15.0	277.8	2.0	0	0.00	75.	1008.	2	NAD-SFC NoSubs
9	3	11	70	4	-3.5	0.094	-9.000	-9.000	-999.	69.	21.5	0.1620	0.32	1.00	1.00	314.0	15.0	277.2	2.0	0	0.00	74.	1008.	2	NAD-SFC NoSubs
9	3	11	70	5	-3.5	0.094	-9.000	-9.000	-999.	69.	21.5	0.1620	0.32	1.00	1.00	315.0	15.0	277.0	2.0	0	0.00	74.	1008.	2	NAD-SFC NoSubs
9	3	11	70	6	-3.5	0.094	-9.000	-9.000	-999.	69.	21.5	0.1620	0.32	1.00	1.00	312.0	15.0	276.6	2.0	0	0.00	74.	1009.	2	NAD-SFC NoSubs
9	3	11	70	7	-2.8	0.084	-9.000	-9.000	-999.	58.	19.4	0.0780	0.32	0.63	1.00	297.0	15.0	276.4	2.0	0	0.00	74.	1010.	2	NAD-SFC NoSubs
9	3	11	70	8	13.0	0.165	0.282	0.009	62.	162.	-31.5	0.1880	0.32	0.29	1.50	332.0	15.0	277.8	2.0	0	0.00	70.	1010.	2	NAD-SFC NoSubs
9	3	11	70	9	46.2	0.137	0.579	0.009	151.	122.	-5.1	0.1620	0.32	0.19	1.00	308.0	15.0	279.5	2.0	0	0.00	65.	1010.	2	NAD-SFC NoSubs
9	3	11	70	10	73.7	0.095	0.801	0.007	252.	71.	-1.1	0.1620	0.32	0.16	0.50	314.0	15.0	281.6	2.0	0	0.00	57.	1010.	2	NAD-SFC NoSubs
9	3	11	70	11	93.1	0.085	0.978	0.007	361.	59.	-1.0	0.0780	0.32	0.15	0.50	298.0	15.0	284.1	2.0	0	0.00	44.	1009.	2	NAD-SFC NoSubs
9	3	11	70	12	103.7	0.099	1.140	0.007	514.	75.	-1.0	0.1620	0.32	0.14	0.50	313.0	15.0	285.8	2.0	0	0.00	39.	1008.	2	NAD-SFC NoSubs
9	3	11	70	13	105.2	0.100	1.242	0.007	654.	75.	-1.0	0.1620	0.32	0.14	0.50	307.0	15.0	287.4	2.0	0	0.00	35.	1007.	2	NAD-SFC NoSubs
9	3	11	70	14	97.6	0.150	1.260	0.006	736.	140.	-3.1	0.1620	0.32	0.15	1.00	307.0	15.0	288.8	2.0	0	0.00	33.	1006.	2	NAD-SFC NoSubs
9	3	11	70	15	80.9	0.192	1.215	0.006	796.	201.	-7.8	0.1620	0.32	0.15	1.50	325.0	15.0	289.4	2.0	0	0.00	31.	1006.	2	NAD-SFC NoSubs
9	3	11	70	16	56.4	0.241	1.096	0.006	837.	284.	-22.2	0.1880	0.32	0.18	2.10	334.0	15.0	290.2	2.0	0	0.00	35.	1005.	3	NAD-SFC NoSubs
9	3	11	70	17	24.7	0.308	0.837	0.006	852.	411.	-106.4	0.1880	0.32	0.25	3.10	339.0	15.0	289.8	2.0	0	0.00	42.	1005.	3	NAD-SFC NoSubs
9	3	11	70	18	-20.0	0.317	-9.000	-9.000	-999.	429.	142.8	0.1880	0.32	0.49	3.60	356.0	15.0	288.8	2.0	0	0.00	46.	1005.	3	NAD-SFC NoSubs
9	3	11	70	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	287.5	2.0	0	0.00	49.	1006.	3	NAD-SFC NoSubs
9	3	11	70	20	-22.9	0.217	-9.000	-9.000	-999.	242.	39.9	0.0310	0.32	1.00	3.60	267.0	15.0	286.2	2.0	0	0.00	54.	1007.	3	NAD-SFC NoSubs
9	3	11	70	21	-35.4	0.332	-9.000	-9.000	-999.	460.	93.0	0.0780	0.32	1.00	4.60	270.0	15.0	283.9	2.0	0	0.00	68.	1007.	3	NAD-SFC NoSubs
9	3	11	70	22	-27.5	0.257	-9.000	-9.000	-999.	315.	55.4	0.0780	0.32	1.00	3.60	275.0	15.0	282.8	2.0	0	0.00	75.	1007.	3	NAD-SFC NoSubs
9	3	11	70	23	-22.3	0.219	-9.000	-9.000	-999.	247.	42.6	0.0780	0.32	1.00	3.10	271.0	15.0	282.2	2.0	0	0.00	75.	1008.	3	NAD-SFC NoSubs
9	3	11	70	24	-5.1	0.104	-9.000	-9.000	-999.	89.	19.9	0.0780	0.32	1.00	1.50	283.0	15.0	281.8	2.0	0	0.00	75.	1008.	3	NAD-SFC NoSubs
9	3	12	71	1	-1.2	0.073	-9.000	-9.000	-999.	47.	29.0	0.0780	0.32	1.00	0.50	270.0	15.0	281.5	2.0	0	0.00	75.	1008.	3	NAD-SFC NoSubs
9	3	12	71	2	-2.3	0.077	-9.000	-9.000	-999.	51.	17.5	0.0340	0.32	1.00	1.00	217.0	15.0	281.2	2.0	0	0.00	74.	1008.	3	NAD-SFC NoSubs
9	3	12	71	3	-4.2	0.092	-9.000	-9.000	-999.	67.	16.7	0.0340	0.32	1.00	1.50	230.0	15.0	280.8	2.0	0	0.00	76.	1008.	3	NAD-SFC NoSubs
9	3	12	71	4	-7.7	0.122	-9.000	-9.000	-999.	102.	21.0	0.0310	0.32	1.00	2.10	260.0	15.0	280.1	2.0	0	0.00	76.	1009.	3	NAD-SFC NoSubs
9	3	12	71	5	-22.4	0.219	-9.000	-9.000	-999.	246.	42.3	0.0780	0.32	1.00	3.10	279.0	15.0	279.5	2.0	0	0.00	75.	1009.	3	NAD-SFC NoSubs
9	3	12	71	6	-22.4	0.219	-9.000	-9.000	-999.	246.	42.3	0.0780	0.32	1.00	3.10	291.0	15.0	279.0	2.0	0	0.00	73.	1010.	3	NAD-SFC NoSubs
9	3	12	71	7	-21.8	0.220	-9.000	-9.000	-999.	247.	43.9	0.0780	0.32	0.61	3.10	289.0	15.0	278.6	2.0	0	0.00	73.	1011.	3	NAD-SFC NoSubs
9	3	12	71	8	15.0	0.375	0.340	0.005	94.	551.	-317.6	0.1620	0.32	0.28	4.10	317.0	15.0	280.5	2.0	0	0.00	59.	1011.	3	NAD-SFC NoSubs
9	3	12	71	9	48.0	0.311	0.633	0.005	190.	418.	-56.4	0.1620	0.32	0.19	3.10	325.0	15.0	282.4	2.0	0	0.00	51.	1011.	3	NAD-SFC NoSubs
9	3	12	71	10	75.1	0.281	0.853	0.006	297.	357.	-26.5	0.1620	0.32	0.16	2.60	309.0	15.0	284.0	2.0	0	0.00	47.	1011.	3	NAD-SFC NoSubs
9	3	12	71	11	94.3	0.214	1.014	0.005	399.	239.	-9.4	0.0780	0.32	0.15	2.10	296.0	15.0	285.4	2.0	0	0.00	44.	1011.	3	NAD-SFC NoSubs
9	3	12	71	12	104.6	0.248	1.166	0.005	546.	296.	-13.1	0.1620	0.32	0.14	2.10	304.0	15.0	286.8	2.0	0	0.00	42.	1010.	3	NAD-SFC NoSubs
9	3	12	71	13	106.0	0.248	1.253	0.005	669.	297.	-13.0	0.1620	0.32	0.14	2.10	310.0	15.0	287.9	2.0	0	0.00	41.	1009.	3	NAD-SFC NoSubs
9	3	12	71	14	98.3	0.247	1.306	0.005	816.	294.	-13.7	0.1620	0.32	0.15	2.10	319.0	15.0	289.0	2.0	0	0.00	39.	1008.	2	NAD-SFC NoSubs
9	3	12	71	15	81.6	0.249	1.278	0.005	920.	299.	-17.1	0.1880	0.32	0.15	2.10	330.0	15.0	289.6	2.0	0	0.00	38.	1008.	2	NAD-SFC NoSubs
9	3	12	71	16	56.5	0.283	1.156	0.005	985.	361.	-36.0	0.1880	0.32	0.17	2.60	343.0	15.0	289.9	2.0	0	0.00	38.	1008.	2	NAD-SFC NoSubs
9	3	12	71	17	24.4	-9.000	-9.000	-9.000	1010.	-999.	-99999.0	0.0879	0.32	0.25	0.00	0.0	15.0	289.6	2.0	0	0.00	44.	1007.	2	NAD-SFC NoSubs
9	3	12	71	18	-10.9	0.180	-9.000	-9.000	-999.	184.	48.2	0.1900	0.32	0.48	2.10	25.0	15.0	289.0	2.0	0	0.00	47.	1008.	2	NAD-SFC NoSubs
9	3	12	71	19	-1.3	0.077	-9.000	-9.000	-999.	58.	30.3	0.1280	0.32	1.00	0.50	34.0	15.0	287.9	2.0	0	0.00	51.	1009.	2	NAD-SFC NoSubs
9	3	12	71	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	286.5	2.0	0	0.00	58.	1009.	2	NAD-SFC NoSubs
9	3	12	71	21	-1.0	0.067	-9.000	-9.000	-999.	42.	26.9	0.0330	0.32	1.00	0.50	207.0	15.0	285.2	2.0	0	0.00	65.	1010.	2	NAD-SFC NoSubs
9	3	12	71	22	-1.0	0.068	-9.000	-9.000	-999.	42.	27.0	0.0340	0.32	1.00	0.50	227.0	15.0	284.2	2.0	0	0.00	69.	1011.	2	NAD-SFC NoSubs
9	3	12	71	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	283.4	2.0	0	0.00	72.	1011.	2	NAD-SFC NoSubs
9	3	12	71	24	-1.5	0.081	-9.000	-9.000	-999.	55.	31.4	0.1880	0.32	1.00	0.50	340.0	15.0	282.8	2.0	0	0.00	74.	1011.	2	NAD-SFC NoSubs
9	3	13	72	1	-3.4	0.093	-9.000	-9.000	-999.	68.	21.5	0.1620	0.32	1.00	1.00	316.0	15.0	282.2	2.0	0	0.00	75.	1011.	2	NAD-SFC NoSubs

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 9  3 13  72  2   -5.2  0.105 -9.000 -9.000 -999.   81.     19.8  0.0780  0.32  1.00  1.50  299.0  15.0  281.8  2.0   0   0.00   75.  1011.    2 NAD-SFC NoSubs
 9  3 13  72  3   -5.2  0.105 -9.000 -9.000 -999.   81.     19.8  0.0780  0.32  1.00  1.50  287.0  15.0  281.1  2.0   0   0.00   74.  1011.    2 NAD-SFC NoSubs
 9  3 13  72  4   -5.2  0.105 -9.000 -9.000 -999.   81.     19.7  0.0780  0.32  1.00  1.50  278.0  15.0  280.8  2.0   0   0.00   72.  1011.    2 NAD-SFC NoSubs
 9  3 13  72  5   -4.2  0.091 -9.000 -9.000 -999.   66.     16.4  0.0310  0.32  1.00  1.50  259.0  15.0  280.4  2.0   0   0.00   71.  1011.    2 NAD-SFC NoSubs
 9  3 13  72  6   -4.2  0.091 -9.000 -9.000 -999.   66.     16.4  0.0310  0.32  1.00  1.50  252.0  15.0  280.0  2.0   0   0.00   70.  1012.    2 NAD-SFC NoSubs
 9  3 13  72  7   -4.0  0.091 -9.000 -9.000 -999.   66.     16.9  0.0340  0.32  0.60  1.50  237.0  15.0  279.8  2.0   0   0.00   69.  1012.    2 NAD-SFC NoSubs
 9  3 13  72  8   15.0  0.162  0.309  0.008   70.   157.    -25.7  0.1620  0.32  0.28  1.50  303.0  15.0  281.1  2.0   0   0.00   61.  1012.    2 NAD-SFC NoSubs
 9  3 13  72  9   48.4  0.120  0.611  0.008  170.   100.     -3.2  0.0780  0.32  0.18  1.00  278.0  15.0  282.9  2.0   0   0.00   55.  1012.    2 NAD-SFC NoSubs
 9  3 13  72 10   75.8  0.108  0.846  0.006  288.    85.     -1.5  0.0310  0.32  0.16  1.00  264.0  15.0  285.2  2.0   0   0.00   46.  1012.    2 NAD-SFC NoSubs
 9  3 13  72 11   95.2  0.072  1.021  0.005  404.    46.     -1.0  0.0310  0.32  0.15  0.50  267.0  15.0  286.9  2.0   0   0.00   43.  1011.    2 NAD-SFC NoSubs
 9  3 13  72 12  105.7  0.086  1.187  0.005  570.    61.     -1.0  0.0780  0.32  0.14  0.50  288.0  15.0  288.5  2.0   0   0.00   40.  1010.    2 NAD-SFC NoSubs
 9  3 13  72 13  107.0  0.100  1.280  0.006  706.    76.     -1.0  0.1620  0.32  0.14  0.50  309.0  15.0  289.8  2.0   0   0.00   37.  1009.    2 NAD-SFC NoSubs
 9  3 13  72 14   99.3  0.151  1.313  0.006  821.   140.     -3.1  0.1620  0.32  0.15  1.00  327.0  15.0  290.8  2.0   0   0.00   35.  1008.    2 NAD-SFC NoSubs
 9  3 13  72 15   82.6  0.152  1.277  0.006  906.   142.     -3.8  0.1880  0.32  0.15  1.00  343.0  15.0  291.4  2.0   0   0.00   34.  1007.    2 NAD-SFC NoSubs
 9  3 13  72 16   57.4  0.190  1.154  0.006  961.   199.    -10.7  0.1880  0.32  0.17  1.50  358.0  15.0  291.6  2.0   0   0.00   34.  1006.    2 NAD-SFC NoSubs
 9  3 13  72 17   25.3  0.226  0.884  0.006  980.   258.    -40.9  0.1900  0.32  0.24  2.10   18.0  15.0  291.2  2.0   0   0.00   39.  1006.    2 NAD-SFC NoSubs
 9  3 13  72 18  -15.3  0.248 -9.000 -9.000 -999.   296.    89.1  0.1280  0.32  0.48  3.10   32.0  15.0  290.2  2.0   0   0.00   43.  1006.    2 NAD-SFC NoSubs
 9  3 13  72 19  -11.7  0.160 -9.000 -9.000 -999.   157.    31.6  0.1280  0.32  1.00  2.10   52.0  15.0  289.0  2.0   0   0.00   48.  1006.    2 NAD-SFC NoSubs
 9  3 13  72 20   -1.1  0.069 -9.000 -9.000 -999.    48.    27.7  0.0460  0.32  1.00  0.50  122.0  15.0  287.5  2.0   0   0.00   54.  1006.    2 NAD-SFC NoSubs
 9  3 13  72 21   -2.3  0.077 -9.000 -9.000 -999.    51.    17.5  0.0340  0.32  1.00  1.00  225.0  15.0  286.0  2.0   0   0.00   61.  1007.    2 NAD-SFC NoSubs
 9  3 13  72 22   -4.1  0.091 -9.000 -9.000 -999.    66.    16.4  0.0310  0.32  1.00  1.50  255.0  15.0  284.9  2.0   0   0.00   65.  1007.    2 NAD-SFC NoSubs
 9  3 13  72 23   -2.8  0.085 -9.000 -9.000 -999.    59.    19.4  0.0780  0.32  1.00  1.00  293.0  15.0  284.1  2.0   0   0.00   67.  1008.    2 NAD-SFC NoSubs
 9  3 13  72 24   -3.5  0.095 -9.000 -9.000 -999.    71.    22.0  0.1880  0.32  1.00  1.00  339.0  15.0  283.2  2.0   0   0.00   70.  1007.    2 NAD-SFC NoSubs
 9  3 14  73  1   -3.6  0.095 -9.000 -9.000 -999.    71.    22.0  0.1880  0.32  1.00  1.00  340.0  15.0  282.5  2.0   0   0.00   72.  1007.    2 NAD-SFC NoSubs
 9  3 14  73  2   -6.6  0.121 -9.000 -9.000 -999.   100.    23.9  0.1620  0.32  1.00  1.50  322.0  15.0  282.1  2.0   0   0.00   73.  1007.    2 NAD-SFC NoSubs
 9  3 14  73  3  -13.0  0.169 -9.000 -9.000 -999.   167.    33.7  0.1620  0.32  1.00  2.10  314.0  15.0  281.4  2.0   0   0.00   75.  1007.    2 NAD-SFC NoSubs
 9  3 14  73  4  -13.0  0.169 -9.000 -9.000 -999.   167.    33.6  0.1620  0.32  1.00  2.10  305.0  15.0  280.6  2.0   0   0.00   75.  1007.    2 NAD-SFC NoSubs
 9  3 14  73  5  -13.0  0.169 -9.000 -9.000 -999.   167.    33.6  0.1620  0.32  1.00  2.10  301.0  15.0  280.0  2.0   0   0.00   75.  1007.    2 NAD-SFC NoSubs
 9  3 14  73  6  -13.0  0.169 -9.000 -9.000 -999.   167.    33.5  0.1620  0.32  1.00  2.10  305.0  15.0  279.5  2.0   0   0.00   74.  1007.    2 NAD-SFC NoSubs
 9  3 14  73  7   -4.9  0.104 -9.000 -9.000 -999.    81.    20.3  0.0780  0.32  0.59  1.50  276.0  15.0  279.2  2.0   0   0.00   72.  1007.    2 NAD-SFC NoSubs
 9  3 14  73  8   15.9  0.260  0.330  0.006   81.   318.    -99.1  0.1880  0.32  0.27  2.60  331.0  15.0  281.0  2.0   0   0.00   62.  1008.    2 NAD-SFC NoSubs
 9  3 14  73  9   49.3  0.143  0.593  0.010  152.   137.     -5.3  0.1880  0.32  0.18  1.00  334.0  15.0  282.8  2.0   0   0.00   55.  1008.    2 NAD-SFC NoSubs
 9  3 14  73 10   76.6  0.096  0.790  0.008  231.    71.     -1.0  0.1620  0.32  0.16  0.50  312.0  15.0  284.8  2.0   0   0.00   48.  1008.    2 NAD-SFC NoSubs
 9  3 14  73 11   95.9  0.099  0.962  0.006  333.    74.     -1.0  0.1620  0.32  0.15  0.50  311.0  15.0  286.4  2.0   0   0.00   44.  1007.    2 NAD-SFC NoSubs
 9  3 14  73 12  106.3  0.100  1.118  0.005  472.    76.     -1.0  0.1620  0.32  0.14  0.50  308.0  15.0  287.8  2.0   0   0.00   40.  1006.    2 NAD-SFC NoSubs
 9  3 14  73 13  107.6  0.152  1.253  0.006  655.   143.     -2.9  0.1620  0.32  0.14  1.00  313.0  15.0  289.0  2.0   0   0.00   38.  1005.    2 NAD-SFC NoSubs
 9  3 14  73 14   99.8  0.196  1.289  0.007  769.   209.     -6.8  0.1620  0.32  0.15  1.50  322.0  15.0  289.9  2.0   0   0.00   36.  1005.    2 NAD-SFC NoSubs
 9  3 14  73 15   83.0  0.292  1.254  0.007  852.   378.    -26.8  0.1880  0.32  0.15  2.60  342.0  15.0  290.2  2.0   0   0.00   35.  1004.    2 NAD-SFC NoSubs
 9  3 14  73 16   57.8  0.366  1.134  0.007  905.   531.    -76.0  0.1880  0.32  0.17  3.60  360.0  15.0  290.2  2.0   0   0.00   35.  1004.    2 NAD-SFC NoSubs
 9  3 14  73 17   25.6  0.310  0.872  0.007  927.   415.   -103.6  0.1900  0.32  0.24  3.10    6.0  15.0  289.8  2.0   0   0.00   44.  1003.    2 NAD-SFC NoSubs
 9  3 14  73 18  -19.1  0.318 -9.000 -9.000 -999.   431.    151.2  0.1900  0.32  0.47  3.60   11.0  15.0  288.9  2.0   0   0.00   47.  1004.    2 NAD-SFC NoSubs
 9  3 14  73 19 -999.0 -9.000 -9.000 -9.000 -999.  -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  287.9  2.0   0   0.00   50.  1004.    2 NAD-SFC NoSubs
 9  3 14  73 20  -28.9  0.268 -9.000 -9.000 -999.   333.    59.5  0.1880  0.32  1.00  3.10  340.0  15.0  286.9  2.0   0   0.00   53.  1005.    2 NAD-SFC NoSubs
 9  3 14  73 21  -27.3  0.258 -9.000 -9.000 -999.   315.    56.6  0.1620  0.32  1.00  3.10  318.0  15.0  285.9  2.0   0   0.00   57.  1006.    3 NAD-SFC NoSubs
 9  3 14  73 22  -27.4  0.258 -9.000 -9.000 -999.   315.    56.4  0.1620  0.32  1.00  3.10  300.0  15.0  284.9  2.0   0   0.00   61.  1006.    3 NAD-SFC NoSubs
 9  3 14  73 23  -27.4  0.257 -9.000 -9.000 -999.   313.    55.7  0.0780  0.32  1.00  3.60  297.0  15.0  283.9  2.0   0   0.00   66.  1007.    3 NAD-SFC NoSubs
 9  3 14  73 24  -37.0  0.346 -9.000 -9.000 -999.   489.   100.6  0.1620  0.32  1.00  4.10  310.0  15.0  283.0  2.0   0   0.00   72.  1007.    3 NAD-SFC NoSubs
 9  3 15  74  1  -32.4  0.302 -9.000 -9.000 -999.   400.    76.5  0.1620  0.32  1.00  3.60  322.0  15.0  282.4  2.0   0   0.00   78.  1007.    3 NAD-SFC NoSubs
 9  3 15  74  2  -27.7  0.258 -9.000 -9.000 -999.   316.    55.8  0.1620  0.32  1.00  3.10  325.0  15.0  282.0  2.0   0   0.00   82.  1007.    3 NAD-SFC NoSubs
 9  3 15  74  3  -27.7  0.258 -9.000 -9.000 -999.   315.    55.7  0.1620  0.32  1.00  3.10  308.0  15.0  281.6  2.0   0   0.00   85.  1007.    3 NAD-SFC NoSubs
 9  3 15  74  4  -15.5  0.181 -9.000 -9.000 -999.   187.    34.6  0.0780  0.32  1.00  2.60  298.0  15.0  281.2  2.0   0   0.00   86.  1007.    3 NAD-SFC NoSubs
 9  3 15  74  5   -2.8  0.084 -9.000 -9.000 -999.    64.    19.4  0.0780  0.32  1.00  1.00  294.0  15.0  280.8  2.0   0   0.00   87.  1007.    3 NAD-SFC NoSubs
 9  3 15  74  6 -999.0 -9.000 -9.000 -9.000 -999.  -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  280.4  2.0   0   0.00   88.  1008.    3 NAD-SFC NoSubs
 9  3 15  74  7   -0.9  0.063 -9.000 -9.000 -999.    38.    25.6  0.0330  0.32  0.57  0.50  203.0  15.0  280.0  2.0   0   0.00   90.  1009.    3 NAD-SFC NoSubs
 9  3 15  74  8   17.6  0.059  0.376  0.006  108.    34.    -1.0  0.0340  0.32  0.27  0.50  226.0  15.0  281.1  2.0   0   0.00   83.  1009.    3 NAD-SFC NoSubs
 9  3 15  74  9   50.6  0.069  0.748  0.006  297.    43.    -1.0  0.0380  0.32  0.18  0.50  173.0  15.0  282.1  2.0   0   0.00   79.  1010.    3 NAD-SFC NoSubs
 9  3 15  74 10   77.5  0.147  0.985  0.006  444.   135.    -3.7  0.0380  0.32  0.15  1.50  164.0  15.0  282.9  2.0   0   0.00   76.  1010.    3 NAD-SFC NoSubs
 9  3 15  74 11   96.5  0.115  1.151  0.005  570.    94.    -1.4  0.0380  0.32  0.15  1.00  162.0  15.0  284.4  2.0   0   0.00   70.  1010.    3 NAD-SFC NoSubs
 9  3 15  74 12  106.8 -9.000 -9.000 -9.000  690.  -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  286.2  2.0   0   0.00   61.  1009.    3 NAD-SFC NoSubs
 9  3 15  74 13  108.1 -9.000 -9.000 -9.000  808.  -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  287.8  2.0   0   0.00   55.  1008.    3 NAD-SFC NoSubs
 9  3 15  74 14  100.4 -9.000 -9.000 -9.000  905.  -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0  288.8  2.0   0   0.00   50.  1008.    3 NAD-SFC NoSubs
 9  3 15  74 15   83.8  0.084  1.318  0.005  982.    58.    -1.0  0.0780  0.32  0.15  0.50  286.0  15.0  289.8  2.0   0   0.00   46.  1007.    3 NAD-SFC NoSubs
 9  3 15  74 16   58.8  0.095  1.197  0.005 1047.    70.    -1.3  0.1880  0.32  0.17  0.50  330.0  15.0  290.1  2.0   0   0.00   44.  1007.    3 NAD-SFC NoSubs
 9  3 15  74 17   27.1  0.124  0.932  0.006 1075.   104.    -6.3  0.1280  0.32  0.24  1.00   35.0  15.0  290.2  2.0   0   0.00   45.  1007.    3 NAD-SFC NoSubs
 9  3 15  74 18   -1.6  0.070 -9.000 -9.000 -999.    45.    19.6  0.0760  0.32  0.47  1.00   81.0  15.0  289.6  2.0   0   0.00   50.  1007.    3 NAD-SFC NoSubs
 9  3 15  74 19   -4.4  0.096 -9.000 -9.000 -999.    71.    17.8  0.0460  0.32  1.00  1.50  124.0  15.0  288.5  2.0   0   0.00   55.  1008.    3 NAD-SFC NoSubs
 9  3 15  74 20  -17.7  0.192 -9.000 -9.000 -999.   202.    35.9  0.0380  0.32  1.00  3.10  168.0  15.0  287.2  2.0   0   0.00   61.  1009.    4 NAD-SFC NoSubs
 9  3 15  74 21  -22.6  0.221 -9.000 -9.000 -999.   249.    42.8  0.0340  0.32  1.00  3.60  216.0  15.0  285.8  2.0   0   0.00   70.  1010.    4 NAD-SFC NoSubs
 9  3 15  74 22  -17.5  0.188 -9.000 -9.000 -999.   195.    34.0  0.0340  0.32  1.00  3.10  236.0  15.0  284.5  2.0   0   0.00   83.  1010.    3 NAD-SFC NoSubs
 9  3 15  74 23  -17.2  0.185 -9.000 -9.000 -999.   191.    33.1  0.0310  0.32  1.00  3.10  254.0  15.0  283.8  2.0   0   0.00   89.  1011.    3 NAD-SFC NoSubs
 9  3 15  74 24  -11.9  0.153 -9.000 -9.000 -999.   143.    26.9  0.0310  0.32  1.00  2.60  248.0  15.0  283.2  2.0   0   0.00   92.  1011.    3 NAD-SFC NoSubs
 9  3 16  75  1   -7.7  0.122 -9.000 -9.000 -999.   102.    21.2  0.0310  0.32  1.00  2.10  251.0  15.0  283.0  2.0   0   0.00   94.  1011.    3 NAD-SFC NoSubs
 9  3 16  75  2   -2.3  0.077 -9.000 -9.000 -999.    51.    17.5  0.0340  0.32  1.00  1.00  232.0  15.0  282.8  2.0   0   0.00   95.  1011.    3 NAD-SFC NoSubs
 9  3 16  75  3   -1.0  0.067 -9.000 -9.000 -999.    42.    26.8  0.0340  0.32  1.00  0.50  211.0  15.0  282.6  2.0   0   0.00   96.  1012.    3 NAD-SFC NoSubs
 9  3 16  75  4   -2.3  0.076 -9.000 -9.000 -999.    51.    17.4  0.0330  0.32  1.00  1.00  191.0  15.0  282.8  2.0   0   0.00   95.  1012.    3 NAD-SFC NoSubs
 9  3 16  75  5   -2.4  0.077 -9.000 -9.000 -999.    52.    17.7  0.0380  0.32  1.00  1.00  168.0  15.0  282.9  2.0   0   0.00   93.  1012.    3 NAD-SFC NoSubs
 9  3 16  75  6   -4.5  0.096 -9.000 -9.000 -999.    71.    17.8  0.0460  0.32  1.00  1.50  141.0  15.0  283.1  2.0   0   0.00   92.  1012.    3 NAD-SFC NoSubs
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 9  3 16  75  7  -12.3  0.165 -9.000 -9.000 -999.  161.     33.0  0.0460  0.32  0.56  2.60  127.0  15.0  283.2  2.0  0  0.00  91.  1013.  3 NAD-SFC NoSubs
 9  3 16  75  8   18.8  0.235  0.353  0.005   84.  274.    -62.5  0.0460  0.32  0.27  3.10  140.0  15.0  283.6  2.0  0  0.00  89.  1013.  3 NAD-SFC NoSubs
 9  3 16  75  9   51.8  0.243  0.855  0.006  436.  287.    -24.9  0.0380  0.32  0.18  3.10  151.0  15.0  284.5  2.0  0  0.00  85.  1013.  3 NAD-SFC NoSubs
 9  3 16  75 10   78.7  0.182  1.091  0.008  596.  188.     -7.0  0.0330  0.32  0.15  2.10  182.0  15.0  285.6  2.0  0  0.00  78.  1013.  3 NAD-SFC NoSubs
 9  3 16  75 11   97.7  0.112  1.242  0.009  708.   92.     -1.3  0.0330  0.32  0.15  1.00  193.0  15.0  287.2  2.0  0  0.00  70.  1013.  3 NAD-SFC NoSubs
 9  3 16  75 12  108.0 -9.000 -9.000 -9.000  790. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  288.8  2.0  0  0.00  64.  1012.  3 NAD-SFC NoSubs
 9  3 16  75 13  109.3 -9.000 -9.000 -9.000  866. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  290.2  2.0  0  0.00  59.  1011.  2 NAD-SFC NoSubs
 9  3 16  75 14  101.5  0.099  1.379  0.010  931.   75.     -1.0  0.1620  0.32  0.15  0.50  307.0  15.0  291.5  2.0  0  0.00  55.  1010.  2 NAD-SFC NoSubs
 9  3 16  75 15   84.7  0.097  1.320  0.010  979.   72.     -1.0  0.1620  0.32  0.15  0.50  324.0  15.0  292.4  2.0  0  0.00  51.  1010.  2 NAD-SFC NoSubs
 9  3 16  75 16   59.6  0.191  1.185  0.010 1004.  201.    -10.6  0.1900  0.32  0.17  1.50    6.0  15.0  293.2  2.0  0  0.00  53.  1009.  2 NAD-SFC NoSubs
 9  3 16  75 17   27.5  0.227  0.919  0.010 1015.  260.    -38.5  0.1900  0.32  0.24  2.10   18.0  15.0  293.2  2.0  0  0.00  57.  1009.  2 NAD-SFC NoSubs
 9  3 16  75 18  -12.3  0.249 -9.000 -9.000 -999.  298.    112.3  0.1280  0.32  0.46  3.10   31.0  15.0  292.8  2.0  0  0.00  62.  1009.  2 NAD-SFC NoSubs
 9  3 16  75 19  -25.4  0.244 -9.000 -9.000 -999.  290.     51.7  0.1280  0.32  1.00  3.10   36.0  15.0  291.6  2.0  0  0.00  67.  1010.  3 NAD-SFC NoSubs
 9  3 16  75 20   -5.9  0.114 -9.000 -9.000 -999.  104.     22.8  0.1280  0.32  1.00  1.50   46.0  15.0  290.8  2.0  0  0.00  71.  1010.  3 NAD-SFC NoSubs
 9  3 16  75 21   -1.0  0.066 -9.000 -9.000 -999.   41.     26.4  0.0310  0.32  1.00  0.50  258.0  15.0  289.8  2.0  0  0.00  76.  1011.  3 NAD-SFC NoSubs
 9  3 16  75 22  -27.2  0.258 -9.000 -9.000 -999.  315.     57.2  0.1620  0.32  1.00  3.10  301.0  15.0  288.8  2.0  0  0.00  81.  1012.  3 NAD-SFC NoSubs
 9  3 16  75 23  -38.1  0.359 -9.000 -9.000 -999.  517.    110.0  0.1880  0.32  1.00  4.10  336.0  15.0  287.2  2.0  0  0.00  88.  1012.  3 NAD-SFC NoSubs
 9  3 16  75 24  -38.2  0.359 -9.000 -9.000 -999.  517.    109.6  0.1880  0.32  1.00  4.10  346.0  15.0  286.2  2.0  0  0.00  92.  1012.  3 NAD-SFC NoSubs
 9  3 17  76  1  -28.5  0.268 -9.000 -9.000 -999.  338.     60.9  0.1880  0.32  1.00  3.10  337.0  15.0  285.8  2.0  0  0.00  93.  1012.  3 NAD-SFC NoSubs
 9  3 17  76  2  -13.6  0.176 -9.000 -9.000 -999.  181.     36.4  0.1880  0.32  1.00  2.10  340.0  15.0  285.5  2.0  0  0.00  94.  1012.  3 NAD-SFC NoSubs
 9  3 17  76  3   -6.5  0.120 -9.000 -9.000 -999.  101.     24.3  0.1620  0.32  1.00  1.50  317.0  15.0  285.2  2.0  0  0.00  94.  1012.  3 NAD-SFC NoSubs
 9  3 17  76  4   -2.7  0.084 -9.000 -9.000 -999.   58.     19.3  0.0780  0.32  1.00  1.00  294.0  15.0  285.1  2.0  0  0.00  95.  1012.  3 NAD-SFC NoSubs
 9  3 17  76  5   -2.7  0.084 -9.000 -9.000 -999.   58.     19.3  0.0780  0.32  1.00  1.00  272.0  15.0  285.1  2.0  0  0.00  95.  1012.  3 NAD-SFC NoSubs
 9  3 17  76  6   -2.7  0.084 -9.000 -9.000 -999.   58.     19.3  0.0780  0.32  1.00  1.00  277.0  15.0  285.1  2.0  0  0.00  95.  1013.  3 NAD-SFC NoSubs
 9  3 17  76  7   -2.3  0.078 -9.000 -9.000 -999.   53.     18.8  0.0780  0.32  0.55  1.00  286.0  15.0  285.0  2.0  0  0.00  96.  1013.  3 NAD-SFC NoSubs
 9  3 17  76  8   19.9  0.129  0.454  0.005  169.  111.     -9.7  0.1880  0.32  0.26  1.00  349.0  15.0  285.2  2.0  0  0.00  94.  1013.  3 NAD-SFC NoSubs
 9  3 17  76  9   52.9  0.094  0.794  0.005  342.   69.     -1.4  0.1880  0.32  0.18  0.50  349.0  15.0  285.8  2.0  0  0.00  92.  1013.  3 NAD-SFC NoSubs
 9  3 17  76 10   79.7 -9.000 -9.000 -9.000  488. -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0  286.2  2.0  0  0.00  89.  1013.  3 NAD-SFC NoSubs
 9  3 17  76 11   98.4 -9.000 -9.000 -9.000  620. -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0  286.8  2.0  0  0.00  86.  1012.  3 NAD-SFC NoSubs
 9  3 17  76 12  108.5  0.100  1.309  0.007  746.   76.     -1.0  0.1620  0.32  0.14  0.50  306.0  15.0  287.6  2.0  0  0.00  82.  1011.  3 NAD-SFC NoSubs
 9  3 17  76 13  109.7  0.100  1.377  0.008  858.   76.     -1.0  0.1620  0.32  0.14  0.50  308.0  15.0  289.0  2.0  0  0.00  75.  1010.  3 NAD-SFC NoSubs
 9  3 17  76 14  101.8  0.099  1.390  0.009  950.   75.     -1.0  0.1620  0.32  0.15  0.50  325.0  15.0  289.8  2.0  0  0.00  71.  1010.  3 NAD-SFC NoSubs
 9  3 17  76 15   85.1  0.152  1.332  0.010 1000.  143.     -3.7  0.1880  0.32  0.15  1.00  331.0  15.0  290.2  2.0  0  0.00  69.  1009.  3 NAD-SFC NoSubs
 9  3 17  76 16   60.1  0.147  1.197  0.010 1027.  135.     -4.7  0.1900  0.32  0.17  1.00    2.0  15.0  290.5  2.0  0  0.00  68.  1009.  3 NAD-SFC NoSubs
 9  3 17  76 17   28.3  0.067  0.935  0.010 1039.   44.     -1.0  0.0510  0.32  0.24  0.50   91.0  15.0  290.6  2.0  0  0.00  70.  1009.  3 NAD-SFC NoSubs
 9  3 17  76 18   -0.5  0.047 -9.000 -9.000 -999.   25.     20.4  0.0460  0.32  0.45  0.50  138.0  15.0  290.1  2.0  0  0.00  73.  1009.  3 NAD-SFC NoSubs
 9  3 17  76 19   -2.4  0.078 -9.000 -9.000 -999.   53.     18.0  0.0460  0.32  1.00  1.00  148.0  15.0  289.4  2.0  0  0.00  77.  1009.  3 NAD-SFC NoSubs
 9  3 17  76 20   -2.3  0.077 -9.000 -9.000 -999.   51.     17.6  0.0380  0.32  1.00  1.00  160.0  15.0  288.8  2.0  0  0.00  81.  1009.  3 NAD-SFC NoSubs
 9  3 17  76 21   -2.4  0.078 -9.000 -9.000 -999.   52.     17.7  0.0380  0.32  1.00  1.00  157.0  15.0  288.0  2.0  0  0.00  84.  1010.  2 NAD-SFC NoSubs
 9  3 17  76 22   -2.4  0.078 -9.000 -9.000 -999.   52.     17.7  0.0380  0.32  1.00  1.00  151.0  15.0  287.6  2.0  0  0.00  87.  1010.  2 NAD-SFC NoSubs
 9  3 17  76 23   -1.1  0.069 -9.000 -9.000 -999.   44.     27.7  0.0460  0.32  1.00  0.50  138.0  15.0  287.1  2.0  0  0.00  90.  1010.  2 NAD-SFC NoSubs
 9  3 17  76 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  286.6  2.0  0  0.00  92.  1010.  3 NAD-SFC NoSubs
 9  3 18  77  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  286.0  2.0  0  0.00  95.  1010.  3 NAD-SFC NoSubs
 9  3 18  77  2   -1.4  0.078 -9.000 -9.000 -999.   52.     30.7  0.1620  0.32  1.00  0.50  312.0  15.0  285.5  2.0  0  0.00  97.  1010.  3 NAD-SFC NoSubs
 9  3 18  77  3   -1.4  0.079 -9.000 -9.000 -999.   53.     31.0  0.1620  0.32  1.00  0.50  325.0  15.0  285.0  2.0  0  0.00  98.  1010.  2 NAD-SFC NoSubs
 9  3 18  77  4   -3.3  0.092 -9.000 -9.000 -999.   68.     21.4  0.1620  0.32  1.00  1.00  311.0  15.0  283.8  2.0  0  0.00 100.  1010.  3 NAD-SFC NoSubs
 9  3 18  77  5   -1.2  0.073 -9.000 -9.000 -999.   47.     28.9  0.0780  0.32  1.00  0.50  298.0  15.0  282.8  2.0  0  0.00 100.  1010.  3 NAD-SFC NoSubs
 9  3 18  77  6   -1.5  0.080 -9.000 -9.000 -999.   54.     31.2  0.1880  0.32  1.00  0.50  354.0  15.0  282.8  2.0  0  0.00 100.  1010.  3 NAD-SFC NoSubs
 9  3 18  77  7   -1.2  0.074 -9.000 -9.000 -999.   48.     29.3  0.1900  0.32  0.54  0.50   13.0  15.0  282.6  2.0  0  0.00 100.  1011.  2 NAD-SFC NoSubs
 9  3 18  77  8   19.7 -9.000 -9.000 -9.000   71. -999. -99999.0  0.0879  0.32  0.26  0.00    0.0  15.0  283.2  2.0  0  0.00 100.  1010.  2 NAD-SFC NoSubs
 9  3 18  77  9   53.2 -9.000 -9.000 -9.000  311. -999. -99999.0  0.0879  0.32  0.18  0.00    0.0  15.0  285.8  2.0  0  0.00  89.  1010.  2 NAD-SFC NoSubs
 9  3 18  77 10   80.5 -9.000 -9.000 -9.000  524. -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0  288.0  2.0  0  0.00  76.  1009.  2 NAD-SFC NoSubs
 9  3 18  77 11   99.6 -9.000 -9.000 -9.000  678. -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0  289.5  2.0  0  0.00  68.  1009.  2 NAD-SFC NoSubs
 9  3 18  77 12  109.9  0.100  1.317  0.012  747.   76.     -1.0  0.1620  0.32  0.14  0.50  310.0  15.0  290.9  2.0  0  0.00  62.  1007.  2 NAD-SFC NoSubs
 9  3 18  77 13  111.1  0.199  1.359  0.013  811.  213.     -6.3  0.1620  0.32  0.14  1.50  323.0  15.0  292.2  2.0  0  0.00  55.  1006.  2 NAD-SFC NoSubs
 9  3 18  77 14  103.2  0.255  1.356  0.013  867.  310.    -14.5  0.1880  0.32  0.15  2.10  331.0  15.0  293.2  2.0  0  0.00  51.  1005.  2 NAD-SFC NoSubs
 9  3 18  77 15   86.2  0.293  1.299  0.013  911.  380.    -26.0  0.1880  0.32  0.15  2.60  345.0  15.0  293.8  2.0  0  0.00  50.  1004.  2 NAD-SFC NoSubs
 9  3 18  77 16   60.9  0.326  1.169  0.013  940.  446.    -50.9  0.1880  0.32  0.17  3.10  354.0  15.0  293.6  2.0  0  0.00  52.  1004.  2 NAD-SFC NoSubs
 9  3 18  77 17   28.6  0.228  0.913  0.013  953.  266.    -36.9  0.1880  0.32  0.23  2.10  340.0  15.0  293.2  2.0  0  0.00  57.  1004.  2 NAD-SFC NoSubs
 9  3 18  77 18   -1.9  0.083 -9.000 -9.000 -999.   79.     26.4  0.1880  0.32  0.45  1.00  337.0  15.0  292.6  2.0  0  0.00  59.  1004.  2 NAD-SFC NoSubs
 9  3 18  77 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  291.8  2.0  0  0.00  62.  1004.  2 NAD-SFC NoSubs
 9  3 18  77 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  291.0  2.0  0  0.00  66.  1005.  2 NAD-SFC NoSubs
 9  3 18  77 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  290.2  2.0  0  0.00  69.  1005.  2 NAD-SFC NoSubs
 9  3 18  77 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  289.8  2.0  0  0.00  72.  1005.  2 NAD-SFC NoSubs
 9  3 18  77 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  289.4  2.0  0  0.00  74.  1005.  2 NAD-SFC NoSubs
 9  3 18  77 24   -1.2  0.073 -9.000 -9.000 -999.   47.     29.0  0.0780  0.32  1.00  0.50  288.0  15.0  289.0  2.0  0  0.00  76.  1004.  2 NAD-SFC NoSubs
 9  3 19  78  1   -3.3  0.093 -9.000 -9.000 -999.   68.     21.4  0.1620  0.32  1.00  1.00  325.0  15.0  289.0  2.0  0  0.00  74.  1004.  2 NAD-SFC NoSubs
 9  3 19  78  2   -1.5  0.080 -9.000 -9.000 -999.   54.     31.2  0.1880  0.32  1.00  0.50  332.0  15.0  288.9  2.0  0  0.00  74.  1004.  2 NAD-SFC NoSubs
 9  3 19  78  3   -1.4  0.079 -9.000 -9.000 -999.   53.     30.9  0.1620  0.32  1.00  0.50  317.0  15.0  288.8  2.0  0  0.00  73.  1004.  2 NAD-SFC NoSubs
 9  3 19  78  4   -1.4  0.079 -9.000 -9.000 -999.   53.     30.9  0.1620  0.32  1.00  0.50  323.0  15.0  288.6  2.0  0  0.00  73.  1004.  2 NAD-SFC NoSubs
 9  3 19  78  5   -1.4  0.079 -9.000 -9.000 -999.   53.     30.9  0.1620  0.32  1.00  0.50  300.0  15.0  288.2  2.0  0  0.00  73.  1004.  2 NAD-SFC NoSubs
 9  3 19  78  6   -2.8  0.084 -9.000 -9.000 -999.   59.     19.4  0.0780  0.32  1.00  1.00  288.0  15.0  288.1  2.0  0  0.00  74.  1005.  2 NAD-SFC NoSubs
 9  3 19  78  7    9.3 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  0.52  0.00    0.0  15.0  287.9  2.0  0  0.00  75.  1005.  2 NAD-SFC NoSubs
 9  3 19  78  8   21.3  0.095  0.448  0.007  151.   71.     -3.7  0.0340  0.32  0.26  1.00  235.0  15.0  287.9  2.0  0  0.00  75.  1005.  2 NAD-SFC NoSubs
 9  3 19  78  9   54.7  0.204  0.760  0.008  288.  220.    -13.8  0.0780  0.32  0.18  2.10  277.0  15.0  289.2  2.0  0  0.00  66.  1005.  2 NAD-SFC NoSubs
 9  3 19  78 10   81.9  0.242  0.990  0.009  425.  286.    -15.6  0.1620  0.32  0.15  2.10  302.0  15.0  290.8  2.0  0  0.00  57.  1005.  2 NAD-SFC NoSubs
 9  3 19  78 11  100.9  0.151  1.153  0.009  545.  144.     -3.1  0.1620  0.32  0.15  1.00  322.0  15.0  292.2  2.0  0  0.00  51.  1005.  2 NAD-SFC NoSubs
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9	3	19	78	12	111.3	0.205	1.266	0.009	654.	223.	-6.9	0.1880	0.32	0.14	1.50	339.0	15.0	294.0	2.0	0	0.00	47.	1004.	2	NAD-SFC	NoSubs
9	3	19	78	13	112.3	0.383	1.315	0.009	725.	569.	-44.7	0.1880	0.32	0.14	3.60	344.0	15.0	294.8	2.0	0	0.00	45.	1003.	2	NAD-SFC	NoSubs
9	3	19	78	14	104.1	0.464	1.316	0.009	783.	758.	-85.6	0.1880	0.32	0.14	4.60	340.0	15.0	294.6	2.0	0	0.00	48.	1002.	2	NAD-SFC	NoSubs
9	3	19	78	15	87.0	0.502	1.263	0.009	828.	852.	-129.5	0.1880	0.32	0.15	5.10	338.0	15.0	293.5	2.0	0	0.00	56.	1002.	3	NAD-SFC	NoSubs
9	3	19	78	16	61.5	0.409	1.138	0.009	856.	636.	-99.6	0.1880	0.32	0.17	4.10	333.0	15.0	291.6	2.0	0	0.00	68.	1002.	3	NAD-SFC	NoSubs
9	3	19	78	17	29.4	0.261	0.894	0.009	869.	337.	-54.4	0.1620	0.32	0.23	2.60	312.0	15.0	290.5	2.0	0	0.00	79.	1002.	3	NAD-SFC	NoSubs
9	3	19	78	18	-0.5	0.051	-9.000	-9.000	-999.	132.	22.5	0.1620	0.32	0.44	0.50	301.0	15.0	289.9	2.0	0	0.25	85.	1002.	3	NAD-SFC	NoSubs
9	3	19	78	19	-4.2	0.093	-9.000	-9.000	-999.	68.	17.2	0.0380	0.32	1.00	1.50	154.0	15.0	289.9	2.0	0	0.25	87.	1002.	3	NAD-SFC	NoSubs
9	3	19	78	20	-8.3	0.130	-9.000	-9.000	-999.	113.	23.7	0.0460	0.32	1.00	2.10	143.0	15.0	289.9	2.0	0	0.00	88.	1002.	3	NAD-SFC	NoSubs
9	3	19	78	21	-4.4	0.096	-9.000	-9.000	-999.	71.	17.9	0.0460	0.32	1.00	1.50	148.0	15.0	290.0	2.0	0	0.00	87.	1001.	3	NAD-SFC	NoSubs
9	3	19	78	22	-2.2	0.076	-9.000	-9.000	-999.	50.	17.4	0.0340	0.32	1.00	1.00	211.0	15.0	289.9	2.0	0	0.00	87.	1001.	3	NAD-SFC	NoSubs
9	3	19	78	23	-6.4	0.120	-9.000	-9.000	-999.	100.	24.4	0.1620	0.32	1.00	1.50	321.0	15.0	289.5	2.0	0	0.00	89.	1001.	3	NAD-SFC	NoSubs
9	3	19	78	24	-20.9	0.222	-9.000	-9.000	-999.	252.	47.0	0.1880	0.32	1.00	2.60	358.0	15.0	289.0	2.0	0	0.00	92.	1001.	3	NAD-SFC	NoSubs
9	3	20	79	1	-32.8	0.315	-9.000	-9.000	-999.	424.	84.8	0.1900	0.32	1.00	3.60	24.0	15.0	288.6	2.0	0	0.00	93.	1001.	3	NAD-SFC	NoSubs
9	3	20	79	2	-28.1	0.269	-9.000	-9.000	-999.	336.	61.8	0.1900	0.32	1.00	3.10	8.0	15.0	288.2	2.0	0	0.00	93.	1001.	3	NAD-SFC	NoSubs
9	3	20	79	3	-12.6	0.170	-9.000	-9.000	-999.	172.	34.6	0.1620	0.32	1.00	2.10	312.0	15.0	287.8	2.0	0	0.00	93.	1001.	3	NAD-SFC	NoSubs
9	3	20	79	4	-31.7	0.302	-9.000	-9.000	-999.	399.	77.7	0.1620	0.32	1.00	3.60	301.0	15.0	286.8	2.0	0	0.00	90.	1001.	3	NAD-SFC	NoSubs
9	3	20	79	5	-27.2	0.258	-9.000	-9.000	-999.	316.	56.6	0.1620	0.32	1.00	3.10	303.0	15.0	286.0	2.0	0	0.00	88.	1001.	3	NAD-SFC	NoSubs
9	3	20	79	6	-9.8	0.144	-9.000	-9.000	-999.	138.	27.3	0.0780	0.32	1.00	2.10	287.0	15.0	285.8	2.0	0	0.00	86.	1002.	3	NAD-SFC	NoSubs
9	3	20	79	7	-5.4	0.120	-9.000	-9.000	-999.	100.	28.6	0.1620	0.32	0.51	1.50	315.0	15.0	285.8	2.0	0	0.00	85.	1002.	3	NAD-SFC	NoSubs
9	3	20	79	8	22.9	0.265	0.421	0.007	117.	328.	-73.0	0.1880	0.32	0.25	2.60	352.0	15.0	287.1	2.0	0	0.00	79.	1003.	3	NAD-SFC	NoSubs
9	3	20	79	9	56.1	0.145	0.686	0.008	206.	141.	-4.9	0.1880	0.32	0.18	1.00	346.0	15.0	288.9	2.0	0	0.00	70.	1003.	3	NAD-SFC	NoSubs
9	3	20	79	10	82.9	0.097	0.909	0.007	323.	73.	-1.0	0.1620	0.32	0.15	0.50	314.0	15.0	290.8	2.0	0	0.00	63.	1002.	3	NAD-SFC	NoSubs
9	3	20	79	11	101.8	0.131	1.087	0.006	452.	114.	-2.0	0.0780	0.32	0.15	1.00	298.0	15.0	292.2	2.0	0	0.00	56.	1002.	3	NAD-SFC	NoSubs
9	3	20	79	12	111.9	0.173	1.233	0.006	599.	173.	-4.1	0.0780	0.32	0.14	1.50	296.0	15.0	293.5	2.0	0	0.00	53.	1001.	3	NAD-SFC	NoSubs
9	3	20	79	13	113.0	0.250	1.316	0.006	720.	300.	-12.4	0.1620	0.32	0.14	2.10	317.0	15.0	294.6	2.0	0	0.00	50.	1000.	3	NAD-SFC	NoSubs
9	3	20	79	14	105.0	0.298	1.339	0.005	816.	390.	-22.4	0.1880	0.32	0.14	2.60	334.0	15.0	295.2	2.0	0	0.00	49.	999.	3	NAD-SFC	NoSubs
9	3	20	79	15	88.1	0.335	1.300	0.005	889.	466.	-38.0	0.1880	0.32	0.15	3.10	339.0	15.0	295.6	2.0	0	0.00	49.	999.	3	NAD-SFC	NoSubs
9	3	20	79	16	63.0	0.368	1.184	0.005	938.	536.	-70.5	0.1880	0.32	0.17	3.60	336.0	15.0	295.8	2.0	0	0.00	49.	998.	3	NAD-SFC	NoSubs
9	3	20	79	17	31.0	0.271	0.943	0.005	961.	343.	-56.7	0.1880	0.32	0.23	2.60	338.0	15.0	295.5	2.0	0	0.00	55.	998.	3	NAD-SFC	NoSubs
9	3	20	79	18	-5.3	0.222	-9.000	-9.000	-999.	252.	184.8	0.1620	0.32	0.44	2.60	329.0	15.0	294.9	2.0	0	0.00	57.	999.	3	NAD-SFC	NoSubs
9	3	20	79	19	-19.5	0.214	-9.000	-9.000	-999.	238.	45.0	0.1620	0.32	1.00	2.60	326.0	15.0	293.8	2.0	0	0.00	60.	999.	3	NAD-SFC	NoSubs
9	3	20	79	20	-31.1	0.302	-9.000	-9.000	-999.	399.	79.4	0.1620	0.32	1.00	3.60	319.0	15.0	292.8	2.0	0	0.00	63.	1000.	3	NAD-SFC	NoSubs
9	3	20	79	21	-35.8	0.346	-9.000	-9.000	-999.	489.	103.6	0.1620	0.32	1.00	4.10	321.0	15.0	291.1	2.0	0	0.00	70.	1000.	3	NAD-SFC	NoSubs
9	3	20	79	22	-35.9	0.346	-9.000	-9.000	-999.	489.	103.2	0.1620	0.32	1.00	4.10	328.0	15.0	290.0	2.0	0	0.00	76.	1001.	3	NAD-SFC	NoSubs
9	3	20	79	23	-31.5	0.302	-9.000	-9.000	-999.	400.	78.3	0.1620	0.32	1.00	3.60	326.0	15.0	288.8	2.0	0	0.00	83.	1002.	3	NAD-SFC	NoSubs
9	3	20	79	24	-32.8	0.314	-9.000	-9.000	-999.	422.	84.0	0.1880	0.32	1.00	3.60	333.0	15.0	287.8	2.0	0	0.00	87.	1002.	3	NAD-SFC	NoSubs
9	3	21	80	1	-31.8	0.314	-9.000	-9.000	-999.	422.	87.1	0.1880	0.32	1.00	3.60	333.0	15.0	287.0	2.0	0	0.00	88.	1003.	4	NAD-SFC	NoSubs
9	3	21	80	2	-30.7	0.303	-9.000	-9.000	-999.	400.	80.7	0.1620	0.32	1.00	3.60	328.0	15.0	286.2	2.0	0	0.00	89.	1003.	4	NAD-SFC	NoSubs
9	3	21	80	3	-25.1	0.259	-9.000	-9.000	-999.	317.	62.0	0.1620	0.32	1.00	3.10	317.0	15.0	285.8	2.0	0	0.00	88.	1004.	5	NAD-SFC	NoSubs
9	3	21	80	4	-19.0	0.215	-9.000	-9.000	-999.	239.	46.6	0.1620	0.32	1.00	2.60	309.0	15.0	285.6	2.0	0	0.00	86.	1004.	5	NAD-SFC	NoSubs
9	3	21	80	5	-14.7	0.182	-9.000	-9.000	-999.	187.	36.7	0.0780	0.32	1.00	2.60	297.0	15.0	285.1	2.0	0	0.00	86.	1004.	5	NAD-SFC	NoSubs
9	3	21	80	6	-9.2	0.145	-9.000	-9.000	-999.	133.	29.7	0.0780	0.32	1.00	2.10	296.0	15.0	284.8	2.0	0	0.00	84.	1005.	6	NAD-SFC	NoSubs
9	3	21	80	7	-8.8	0.175	-9.000	-9.000	-999.	175.	54.2	0.1620	0.32	0.50	2.10	309.0	15.0	284.8	2.0	0	0.00	82.	1006.	7	NAD-SFC	NoSubs
9	3	21	80	8	23.8	0.218	0.567	0.007	274.	244.	-39.0	0.1620	0.32	0.25	2.10	326.0	15.0	285.0	2.0	0	0.00	78.	1006.	4	NAD-SFC	NoSubs
9	3	21	80	9	56.1	0.094	0.871	0.008	423.	80.	-1.3	0.1880	0.32	0.17	0.50	360.0	15.0	285.8	2.0	0	0.00	74.	1007.	4	NAD-SFC	NoSubs
9	3	21	80	10	83.1	-9.000	-9.000	-9.000	505.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	287.4	2.0	0	0.00	68.	1007.	3	NAD-SFC	NoSubs
9	3	21	80	11	101.9	-9.000	-9.000	-9.000	591.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	289.0	2.0	0	0.00	60.	1007.	3	NAD-SFC	NoSubs
9	3	21	80	12	111.9	-9.000	-9.000	-9.000	676.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	290.2	2.0	0	0.00	53.	1006.	3	NAD-SFC	NoSubs
9	3	21	80	13	112.9	-9.000	-9.000	-9.000	765.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	291.6	2.0	0	0.00	46.	1005.	3	NAD-SFC	NoSubs
9	3	21	80	14	105.0	0.086	1.349	0.007	839.	61.	-1.0	0.0780	0.32	0.14	0.50	279.0	15.0	292.6	2.0	0	0.00	39.	1005.	3	NAD-SFC	NoSubs
9	3	21	80	15	88.1	0.213	1.302	0.007	897.	236.	-9.8	0.0780	0.32	0.15	2.10	286.0	15.0	293.2	2.0	0	0.00	36.	1004.	3	NAD-SFC	NoSubs
9	3	21	80	16	63.1	0.382	1.182	0.006	937.	566.	-79.0	0.0780	0.32	0.17	4.60	276.0	15.0	293.8	2.0	0	0.00	35.	1003.	3	NAD-SFC	NoSubs
9	3	21	80	17	30.9	0.335	0.938	0.006	954.	466.	-108.4	0.0780	0.32	0.23	4.10	288.0	15.0	292.8	2.0	0	0.00	50.	1003.	3	NAD-SFC	NoSubs
9	3	21	80	18	-10.7	0.380	-9.000	-9.000	-999.	563.	461.9	0.0780	0.32	0.43	5.10	282.0	15.0	290.5	2.0	0	0.00	61.	1004.	3	NAD-SFC	NoSubs
9	3	21	80	19	-36.8	0.351	-9.000	-9.000	-999.	500.	105.4	0.0310	0.32	1.00	5.70	266.0	15.0	288.2	2.0	0	0.00	70.	1005.	3	NAD-SFC	NoSubs
9	3	21	80	20	-33.0	0.313	-9.000	-9.000	-999.	420.	83.1	0.0310	0.32	1.00	5.10	269.0	15.0	286.6	2.0	0	0.00	78.	1006.	3	NAD-SFC	NoSubs
9	3	21	80	21	-35.2	0.332	-9.000	-9.000	-999.	460.	93.6	0.0780	0.32	1.00	4.60	275.0	15.0	285.6	2.0	0	0.00	82.	1007.	3	NAD-SFC	NoSubs
9	3	21	80	22	-15.4	0.181	-9.000	-9.000	-999.	202.	34.9	0.0780	0.32	1.00	2.60	272.0	15.0	285.2	2.0	0	0.00	81.	1007.	3	NAD-SFC	NoSubs
9	3	21	80	23	-2.3	0.076	-9.000	-9.000	-999.	60.	17.4	0.0330	0.32	1.00	1.00	181.0	15.0	285.2	2.0	0	0.00	81.	1008.	3	NAD-SFC	NoSubs
9	3	21	80	24	-4.1	0.093	-9.000	-9.000	-999.	68.	17.3	0.0380	0.32	1.00	1.50	162.0	15.0	285.0	2.0	0	0.00	82.	1008.	4	NAD-SFC	NoSubs
9	3	22	81	1	-4.0	0.091	-9.000	-9.000	-999.	66.	16.8	0.0330	0.32	1.00	1.50	192.0	15.0	284.5	2.0	0	0.00	83.	1008.	4	NAD-SFC	NoSubs
9	3	22	81	2	-4.0	0.091	-9.000	-9.000	-999.	66.	16.9	0.0340	0.32	1.00	1.50	215.0	15.0	284.2	2.0	0	0.00	84.	1008.	4	NAD-SFC	NoSubs
9	3	22	81	3	-4.0	0.091	-9.000	-9.000	-999.	66.	16.9	0.0340	0.32	1.00	1.50	233.0	15.0	284.0	2.0	0	0.00	85.	1008.	4	NAD-SFC	NoSubs
9	3	22	81	4	-7.7	0.124	-9.000	-9.000	-999.	104.	22.1	0.0340	0.32	1.00	2.10	235.0	15.0	283.9	2.0	0	0.00	85.	1008.	4	NAD-SFC	NoSubs
9	3	22	81	5	-17.2	0.188	-9.000	-9.000	-999.	196.	34.7	0.0340	0.32	1.00	3.10	229.0	15.0	283.8	2.0	0	0.00	85.	1008.	4	NAD-SFC	NoSubs
9	3	22	81	6	-22.4	0.217	-9.000	-9.000	-999.	243.	41.1	0.0310	0.32	1.00	3.60	243.0	15.0	283.4	2.0	0	0.00	86.	1008.	4	NAD-SFC	NoSubs
9	3	22	81	7	-17.3	0.251	-9.000	-9.000	-999.	302.	82.4	0.0310	0.32	0.49	4.10	256.0	15.0	283.0	2.0	0	0.00	86.	1009.	3	NAD-SFC	NoSubs
9	3	22	81	8	24.7	0.713	0.533	0.005	221.	1445.	-1324.0	0.0780	0.32	0.25	9.30	276.0	15.0	284.9	2.0	0	0.00	66.	1010.	4	NAD-SFC	NoSubs
9	3	22	81	9	55.4	0.675	0.902	0.005	477.	1335.	-500.0	0.0780	0.32	0.17	8.70	295.0	15.0	286.0	2.0	0	0.00	55.	1010.	5	NAD-SFC	NoSubs
9	3	22	81	10	83.0	0.644	1.171	0.005	698.	1243.	-289.9	0.0780	0.32	0.15	8.20	296.0	15.0	286.9	2.0	0	0.00	46.	1010.	4	NAD-SFC	NoSubs
9	3	22	81	11	102.4	0.747	1.404	0.005	975.	1545.	-366.2	0.1620	0.32	0.14	8.20	311.0	15.0	287.5	2.0	0	0.00	38.	1010.	3	NAD-SFC	NoSubs
9	3	22	81	12	112.1	0.748	1.527	0.005	1145.	1554.	-336.5	0.1620	0.32	0.14	8.20	316.0	15.0	287.8	2.0	0	0.00	35.	1009.	3	NAD-SFC	NoSubs
9	3	22	81	13	112.8	0.773	1.594	0.005	1293.	1628.	-367.9	0.1880	0.32	0.14	8.20	333.0	15.0	287.8	2.0	0	0.00	35.	1009.	3	NAD-SFC	NoSubs
9	3	22	81	14	104.6	0.789	1.614	0.005	1449.	1682.	-423.0	0.1620	0.32	0.14	8.70	326.0	15.0	287.8	2.0	0	0.00	37.	1009.	3	NAD-SFC	NoSubs
9	3	22	81	15	87.6	0.812	1.566	0.005	1581.	1755.	-550.5	0.1880	0.32	0.15	8.70	342.0	15.0	287.5	2.0	0	0.00	38.	1009.	3	NAD-SFC	NoSubs
9	3	22	81	16	62.4	0.808	1.424	0.005	1668.	1743.	-760.3	0.1880	0.32	0.17	8.70	340.0	15.0	287.2	2.0	0	0.00	38.	1009.	3	NAD-SFC	NoSubs

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 9  3 22  81 17   30.3  0.482  1.128  0.005 1706.  932.   -333.1  0.1880  0.32  0.23   5.10  338.0  15.0  286.5  2.0   0  0.00  48.  1009.   3 NAD-SFC NoSubs
 9  3 22  81 18  -13.2  0.415 -9.000 -9.000 -999.  654.    490.4  0.1880  0.32  0.43   4.60  334.0  15.0  285.1  2.0   0  0.00  56.  1010.   3 NAD-SFC NoSubs
 9  3 22  81 19  -41.8  0.390 -9.000 -9.000 -999.  586.    128.2  0.1620  0.32  1.00   4.60  318.0  15.0  283.8  2.0   0  0.00  60.  1011.   3 NAD-SFC NoSubs
 9  3 22  81 20  -37.2  0.346 -9.000 -9.000 -999.  490.    100.5  0.1620  0.32  1.00   4.10  317.0  15.0  282.8  2.0   0  0.00  63.  1011.   3 NAD-SFC NoSubs
 9  3 22  81 21  -32.6  0.302 -9.000 -9.000 -999.  400.     76.5  0.1620  0.32  1.00   3.60  313.0  15.0  282.2  2.0   0  0.00  64.  1012.   3 NAD-SFC NoSubs
 9  3 22  81 22  -13.7  0.176 -9.000 -9.000 -999.  187.     36.1  0.1880  0.32  1.00   2.10  330.0  15.0  281.8  2.0   0  0.00  64.  1012.   3 NAD-SFC NoSubs
 9  3 22  81 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00   0.00    0.0  15.0  281.2  2.0   0  0.00  64.  1013.   3 NAD-SFC NoSubs
 9  3 22  81 24   -3.5  0.095 -9.000 -9.000 -999.  70.     21.9  0.1880  0.32  1.00   1.00  353.0  15.0  280.8  2.0   0  0.00  66.  1013.   3 NAD-SFC NoSubs
 9  3 23  82  1   -3.4  0.093 -9.000 -9.000 -999.  68.     21.5  0.1620  0.32  1.00   1.00  311.0  15.0  280.1  2.0   0  0.00  69.  1013.   3 NAD-SFC NoSubs
 9  3 23  82  2   -6.6  0.120 -9.000 -9.000 -999.  100.    24.1  0.1620  0.32  1.00   1.50  315.0  15.0  279.6  2.0   0  0.00  73.  1013.   3 NAD-SFC NoSubs
 9  3 23  82  3   -5.2  0.105 -9.000 -9.000 -999.  81.     19.9  0.0780  0.32  1.00   1.50  296.0  15.0  279.1  2.0   0  0.00  77.  1013.   3 NAD-SFC NoSubs
 9  3 23  82  4   -2.8  0.084 -9.000 -9.000 -999.  59.     19.4  0.0780  0.32  1.00   1.00  278.0  15.0  278.6  2.0   0  0.00  79.  1013.   3 NAD-SFC NoSubs
 9  3 23  82  5   -2.4  0.077 -9.000 -9.000 -999.  51.     17.5  0.0340  0.32  1.00   1.00  236.0  15.0  278.2  2.0   0  0.00  80.  1013.   3 NAD-SFC NoSubs
 9  3 23  82  6   -2.4  0.077 -9.000 -9.000 -999.  51.     17.6  0.0340  0.32  1.00   1.00  216.0  15.0  277.9  2.0   0  0.00  79.  1014.   3 NAD-SFC NoSubs
 9  3 23  82  7   -3.3  0.088 -9.000 -9.000 -999.  63.     18.7  0.0330  0.32  0.48   1.50  200.0  15.0  277.9  2.0   0  0.00  77.  1014.   2 NAD-SFC NoSubs
 9  3 23  82  8   23.8  0.392  0.477  0.005  165.  590.   -229.5  0.1880  0.32  0.24   4.10  352.0  15.0  280.1  2.0   0  0.00  59.  1014.   2 NAD-SFC NoSubs
 9  3 23  82  9   57.1  0.450  0.824  0.005  354.  723.   -144.0  0.1880  0.32  0.17   4.60  354.0  15.0  281.9  2.0   0  0.00  49.  1014.   2 NAD-SFC NoSubs
 9  3 23  82 10   83.9  0.416  1.033  0.005  475.  646.    -77.7  0.1880  0.32  0.15   4.10  353.0  15.0  283.4  2.0   0  0.00  43.  1014.   2 NAD-SFC NoSubs
 9  3 23  82 11  102.6  0.339  1.181  0.005  581.  477.    -34.3  0.1880  0.32  0.14   3.10  355.0  15.0  284.6  2.0   0  0.00  39.  1014.   2 NAD-SFC NoSubs
 9  3 23  82 12  112.5  0.341  1.299  0.005  705.  479.    -32.0  0.1880  0.32  0.14   3.10  340.0  15.0  285.8  2.0   0  0.00  36.  1013.   3 NAD-SFC NoSubs
 9  3 23  82 13  113.3  0.342  1.405  0.005  884.  479.    -31.8  0.1880  0.32  0.14   3.10  338.0  15.0  286.8  2.0   0  0.00  34.  1012.   3 NAD-SFC NoSubs
 9  3 23  82 14  105.2  0.381  1.439  0.005 1023.  564.    -47.4  0.1880  0.32  0.14   3.60  338.0  15.0  287.5  2.0   0  0.00  33.  1012.   3 NAD-SFC NoSubs
 9  3 23  82 15   88.2  0.418  1.402  0.005 1128.  647.    -74.4  0.1880  0.32  0.15   4.10  342.0  15.0  288.0  2.0   0  0.00  33.  1011.   3 NAD-SFC NoSubs
 9  3 23  82 16   63.1  0.410  1.279  0.005 1196.  630.    -98.3  0.1880  0.32  0.17   4.10  337.0  15.0  288.2  2.0   0  0.00  33.  1011.   3 NAD-SFC NoSubs
 9  3 23  82 17   31.1  0.303  1.019  0.005 1228.  407.    -80.5  0.1620  0.32  0.23   3.10  327.0  15.0  288.1  2.0   0  0.00  40.  1011.   3 NAD-SFC NoSubs
 9  3 23  82 18  -10.4  0.310 -9.000 -9.000 -999.  414.    258.2  0.1620  0.32  0.42   3.60  325.0  15.0  287.2  2.0   0  0.00  45.  1011.   2 NAD-SFC NoSubs
 9  3 23  82 19  -37.8  0.346 -9.000 -9.000 -999.  488.     98.9  0.1620  0.32  1.00   4.10  316.0  15.0  285.8  2.0   0  0.00  50.  1012.   2 NAD-SFC NoSubs
 9  3 23  82 20  -33.1  0.302 -9.000 -9.000 -999.  400.     75.1  0.1620  0.32  1.00   3.60  322.0  15.0  284.6  2.0   0  0.00  53.  1012.   2 NAD-SFC NoSubs
 9  3 23  82 21  -20.3  0.214 -9.000 -9.000 -999.  241.     43.4  0.1620  0.32  1.00   2.60  323.0  15.0  283.6  2.0   0  0.00  56.  1012.   2 NAD-SFC NoSubs
 9  3 23  82 22   -2.8  0.085 -9.000 -9.000 -999.  74.     19.4  0.0780  0.32  1.00   1.00  288.0  15.0  282.8  2.0   0  0.00  58.  1013.   2 NAD-SFC NoSubs
 9  3 23  82 23   -1.5  0.079 -9.000 -9.000 -999.  54.     31.1  0.1620  0.32  1.00   0.50  313.0  15.0  282.2  2.0   0  0.00  58.  1013.   2 NAD-SFC NoSubs
 9  3 23  82 24   -1.5  0.079 -9.000 -9.000 -999.  54.     31.1  0.1620  0.32  1.00   0.50  325.0  15.0  281.6  2.0   0  0.00  60.  1013.   2 NAD-SFC NoSubs
 9  3 24  83  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00   0.00    0.0  15.0  280.9  2.0   0  0.00  62.  1013.   2 NAD-SFC NoSubs
 9  3 24  83  2   -2.4  0.078 -9.000 -9.000 -999.  52.     17.6  0.0340  0.32  1.00   1.00  227.0  15.0  280.2  2.0   0  0.00  65.  1013.   2 NAD-SFC NoSubs
 9  3 24  83  3   -4.2  0.091 -9.000 -9.000 -999.  66.     16.4  0.0310  0.32  1.00   1.50  256.0  15.0  279.8  2.0   0  0.00  66.  1013.   2 NAD-SFC NoSubs
 9  3 24  83  4  -12.1  0.152 -9.000 -9.000 -999.  143.    26.3  0.0310  0.32  1.00   2.60  265.0  15.0  279.2  2.0   0  0.00  68.  1013.   2 NAD-SFC NoSubs
 9  3 24  83  5  -22.8  0.219 -9.000 -9.000 -999.  246.    41.6  0.0780  0.32  1.00   3.10  272.0  15.0  278.6  2.0   0  0.00  70.  1013.   2 NAD-SFC NoSubs
 9  3 24  83  6  -17.6  0.184 -9.000 -9.000 -999.  190.    32.3  0.0310  0.32  1.00   3.10  268.0  15.0  278.0  2.0   0  0.00  72.  1014.   2 NAD-SFC NoSubs
 9  3 24  83  7   -9.7  0.155 -9.000 -9.000 -999.  147.    34.9  0.0310  0.32  0.47   2.60  267.0  15.0  277.8  2.0   0  0.00  73.  1014.   2 NAD-SFC NoSubs
 9  3 24  83  8   24.7  0.266  0.414  0.007  103.  330.    -69.1  0.1880  0.32  0.24   2.60  339.0  15.0  280.2  2.0   0  0.00  59.  1014.   2 NAD-SFC NoSubs
 9  3 24  83  9   58.0  0.190  0.771  0.007  285.  201.    -10.7  0.1880  0.32  0.17   1.50  344.0  15.0  282.2  2.0   0  0.00  52.  1014.   2 NAD-SFC NoSubs
 9  3 24  83 10   84.8  0.148  0.983  0.007  405.  137.     -3.4  0.1620  0.32  0.15   1.00  316.0  15.0  283.8  2.0   0  0.00  47.  1014.   2 NAD-SFC NoSubs
 9  3 24  83 11  103.4  0.099  1.163  0.007  551.  75.      -1.0  0.1620  0.32  0.14   0.50  305.0  15.0  285.2  2.0   0  0.00  44.  1014.   2 NAD-SFC NoSubs
 9  3 24  83 12  113.3  0.087  1.284  0.008  674.  62.      -1.0  0.0780  0.32  0.14   0.50  293.0  15.0  286.6  2.0   0  0.00  42.  1012.   2 NAD-SFC NoSubs
 9  3 24  83 13  114.2  0.101  1.345  0.008  769.  77.      -1.0  0.1620  0.32  0.14   0.50  303.0  15.0  287.9  2.0   0  0.00  39.  1012.   2 NAD-SFC NoSubs
 9  3 24  83 14  106.0  0.198  1.356  0.009  849.  211.     -6.6  0.1620  0.32  0.14   1.50  317.0  15.0  289.1  2.0   0  0.00  34.  1011.   2 NAD-SFC NoSubs
 9  3 24  83 15   88.9  0.251  1.310  0.009  911.  303.    -16.1  0.1880  0.32  0.15   2.10  335.0  15.0  289.8  2.0   0  0.00  32.  1010.   2 NAD-SFC NoSubs
 9  3 24  83 16   63.5  0.285  1.188  0.009  952.  366.    -33.0  0.1880  0.32  0.17   2.60  342.0  15.0  289.9  2.0   0  0.00  33.  1010.   2 NAD-SFC NoSubs
 9  3 24  83 17   31.1  0.229  0.943  0.009  971.  264.    -34.8  0.1880  0.32  0.22   2.10  336.0  15.0  289.8  2.0   0  0.00  38.  1010.   2 NAD-SFC NoSubs
 9  3 24  83 18   -1.6  0.083 -9.000 -9.000 -999.  79.     33.7  0.1880  0.32  0.42   1.00  342.0  15.0  289.2  2.0   0  0.00  41.  1010.   2 NAD-SFC NoSubs
 9  3 24  83 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00   0.00    0.0  15.0  288.0  2.0   0  0.00  46.  1010.   2 NAD-SFC NoSubs
 9  3 24  83 20   -1.1  0.069 -9.000 -9.000 -999.  44.     27.7  0.0460  0.32  1.00   0.50  144.0  15.0  286.6  2.0   0  0.00  52.  1010.   2 NAD-SFC NoSubs
 9  3 24  83 21   -2.5  0.080 -9.000 -9.000 -999.  54.     18.2  0.0460  0.32  1.00   1.00  146.0  15.0  285.2  2.0   0  0.00  59.  1010.   2 NAD-SFC NoSubs
 9  3 24  83 22   -8.1  0.126 -9.000 -9.000 -999.  107.    22.0  0.0380  0.32  1.00   2.10  154.0  15.0  284.1  2.0   0  0.00  63.  1010.   2 NAD-SFC NoSubs
 9  3 24  83 23   -8.6  0.130 -9.000 -9.000 -999.  113.    23.1  0.0460  0.32  1.00   2.10  142.0  15.0  283.2  2.0   0  0.00  65.  1011.   2 NAD-SFC NoSubs
 9  3 24  83 24   -8.6  0.130 -9.000 -9.000 -999.  113.    23.1  0.0460  0.32  1.00   2.10  128.0  15.0  282.6  2.0   0  0.00  67.  1010.   2 NAD-SFC NoSubs
 9  3 25  84  1   -4.6  0.096 -9.000 -9.000 -999.  72.     17.7  0.0460  0.32  1.00   1.50  126.0  15.0  282.0  2.0   0  0.00  69.  1010.   2 NAD-SFC NoSubs
 9  3 25  84  2   -1.1  0.070 -9.000 -9.000 -999.  44.     27.9  0.0460  0.32  1.00   0.50  149.0  15.0  281.5  2.0   0  0.00  71.  1010.   2 NAD-SFC NoSubs
 9  3 25  84  3   -1.2  0.074 -9.000 -9.000 -999.  48.     29.2  0.0780  0.32  1.00   0.50  272.0  15.0  281.1  2.0   0  0.00  73.  1010.   2 NAD-SFC NoSubs
 9  3 25  84  4   -2.8  0.085 -9.000 -9.000 -999.  59.     19.5  0.0780  0.32  1.00   1.00  282.0  15.0  280.8  2.0   0  0.00  76.  1009.   2 NAD-SFC NoSubs
 9  3 25  84  5   -4.2  0.091 -9.000 -9.000 -999.  66.     16.4  0.0310  0.32  1.00   1.50  269.0  15.0  280.2  2.0   0  0.00  79.  1009.   2 NAD-SFC NoSubs
 9  3 25  84  6   -4.2  0.091 -9.000 -9.000 -999.  66.     16.4  0.0310  0.32  1.00   1.50  266.0  15.0  280.1  2.0   0  0.00  82.  1010.   2 NAD-SFC NoSubs
 9  3 25  84  7   -6.0  0.124 -9.000 -9.000 -999.  105.    28.7  0.0310  0.32  0.46   2.10  259.0  15.0  280.1  2.0   0  0.00  83.  1010.   2 NAD-SFC NoSubs
 9  3 25  84  8   25.8  0.149  0.385  0.009   80.  138.    -11.5  0.0780  0.32  0.24   1.50  298.0  15.0  282.2  2.0   0  0.00  73.  1010.   2 NAD-SFC NoSubs
 9  3 25  84  9   59.1  0.080  0.672  0.008  185.  56.      -1.0  0.0780  0.32  0.17   0.50  290.0  15.0  284.2  2.0   0  0.00  66.  1010.   2 NAD-SFC NoSubs
 9  3 25  84 10   86.0  0.084  0.918  0.007  324.  58.      -1.0  0.0780  0.32  0.15   0.50  275.0  15.0  286.6  2.0   0  0.00  56.  1009.   2 NAD-SFC NoSubs
 9  3 25  84 11  104.7  0.086  1.109  0.008  468.  61.      -1.0  0.0780  0.32  0.14   0.50  292.0  15.0  288.4  2.0   0  0.00  51.  1009.   2 NAD-SFC NoSubs
 9  3 25  84 12  114.6  0.133  1.248  0.009  610.  117.     -1.9  0.0780  0.32  0.14   1.00  292.0  15.0  289.9  2.0   0  0.00  45.  1008.   2 NAD-SFC NoSubs
 9  3 25  84 13  115.4  0.200  1.316  0.009  709.  214.     -6.2  0.1620  0.32  0.14   1.50  315.0  15.0  291.2  2.0   0  0.00  41.  1007.   2 NAD-SFC NoSubs
 9  3 25  84 14  107.3  0.289  1.327  0.009  782.  374.    -20.3  0.1620  0.32  0.14   2.60  316.0  15.0  292.2  2.0   0  0.00  36.  1006.   2 NAD-SFC NoSubs
 9  3 25  84 15   90.1  0.418  1.282  0.009  838.  649.    -72.8  0.1880  0.32  0.15   4.10  334.0  15.0  292.8  2.0   0  0.00  33.  1005.   2 NAD-SFC NoSubs
 9  3 25  84 16   64.6  0.453  1.164  0.009  876.  730.   -128.5  0.1880  0.32  0.17   4.60  345.0  15.0  292.8  2.0   0  0.00  34.  1005.   2 NAD-SFC NoSubs
 9  3 25  84 17   32.2  0.271  0.929  0.009  893.  366.    -55.4  0.1880  0.32  0.22   2.60  343.0  15.0  292.2  2.0   0  0.00  44.  1005.   2 NAD-SFC NoSubs
 9  3 25  84 18   -4.4  0.223 -9.000 -9.000 -999.  254.    225.4  0.1620  0.32  0.41   2.60  327.0  15.0  291.8  2.0   0  0.00  45.  1005.   2 NAD-SFC NoSubs
 9  3 25  84 19  -32.2  0.302 -9.000 -9.000 -999.  399.     76.7  0.1620  0.32  1.00   3.60  315.0  15.0  290.6  2.0   0  0.00  50.  1005.   2 NAD-SFC NoSubs
 9  3 25  84 20  -32.4  0.302 -9.000 -9.000 -999.  399.     76.3  0.1620  0.32  1.00   3.60  312.0  15.0  289.1  2.0   0  0.00  56.  1005.   2 NAD-SFC NoSubs
 9  3 25  84 21  -19.8  0.214 -9.000 -9.000 -999.  241.     44.5  0.1620  0.32  1.00   2.60  309.0  15.0  287.9  2.0   0  0.00  61.  1005.   3 NAD-SFC NoSubs
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9	3	25	84	22	-12.7	0.170	-9.000	-9.000	-999.	168.	34.6	0.1620	0.32	1.00	2.10	312.0	15.0	286.9	2.0	0	0.00	64.	1006.	3	NAD-SFC	NoSubs
9	3	25	84	23	-6.4	0.120	-9.000	-9.000	-999.	101.	24.3	0.1620	0.32	1.00	1.50	304.0	15.0	286.2	2.0	0	0.00	67.	1006.	3	NAD-SFC	NoSubs
9	3	25	84	24	-9.8	0.144	-9.000	-9.000	-999.	131.	27.3	0.0780	0.32	1.00	2.10	297.0	15.0	285.5	2.0	0	0.00	71.	1006.	3	NAD-SFC	NoSubs
9	3	26	85	1	-5.1	0.104	-9.000	-9.000	-999.	81.	20.0	0.0780	0.32	1.00	1.50	288.0	15.0	284.8	2.0	0	0.00	75.	1006.	3	NAD-SFC	NoSubs
9	3	26	85	2	-5.1	0.104	-9.000	-9.000	-999.	81.	20.0	0.0780	0.32	1.00	1.50	293.0	15.0	284.2	2.0	0	0.00	80.	1005.	3	NAD-SFC	NoSubs
9	3	26	85	3	-5.1	0.104	-9.000	-9.000	-999.	81.	20.0	0.0780	0.32	1.00	1.50	280.0	15.0	283.8	2.0	0	0.00	85.	1005.	3	NAD-SFC	NoSubs
9	3	26	85	4	-5.1	0.104	-9.000	-9.000	-999.	81.	19.9	0.0780	0.32	1.00	1.50	276.0	15.0	283.4	2.0	0	0.00	88.	1005.	3	NAD-SFC	NoSubs
9	3	26	85	5	-5.1	0.104	-9.000	-9.000	-999.	81.	19.9	0.0780	0.32	1.00	1.50	278.0	15.0	283.0	2.0	0	0.00	91.	1005.	3	NAD-SFC	NoSubs
9	3	26	85	6	-2.7	0.084	-9.000	-9.000	-999.	58.	19.4	0.0780	0.32	1.00	1.00	277.0	15.0	282.8	2.0	0	0.00	92.	1006.	3	NAD-SFC	NoSubs
9	3	26	85	7	-1.2	0.061	-9.000	-9.000	-999.	36.	16.4	0.0310	0.32	0.45	1.00	264.0	15.0	282.6	2.0	0	0.00	92.	1006.	3	NAD-SFC	NoSubs
9	3	26	85	8	27.0	0.227	0.543	0.007	212.	259.	-38.7	0.1880	0.32	0.23	2.10	339.0	15.0	284.1	2.0	0	0.00	81.	1006.	2	NAD-SFC	NoSubs
9	3	26	85	9	60.2	0.242	0.882	0.009	409.	286.	-21.2	0.1880	0.32	0.17	2.10	344.0	15.0	285.5	2.0	0	0.00	72.	1006.	2	NAD-SFC	NoSubs
9	3	26	85	10	86.9	0.251	1.066	0.008	501.	302.	-16.3	0.1880	0.32	0.15	2.10	338.0	15.0	287.0	2.0	0	0.00	64.	1006.	2	NAD-SFC	NoSubs
9	3	26	85	11	105.5	0.256	1.205	0.008	595.	311.	-14.2	0.1880	0.32	0.14	2.10	338.0	15.0	288.8	2.0	0	0.00	56.	1005.	2	NAD-SFC	NoSubs
9	3	26	85	12	115.3	0.342	1.301	0.008	684.	481.	-31.2	0.1880	0.32	0.14	3.10	336.0	15.0	290.2	2.0	0	0.00	49.	1004.	2	NAD-SFC	NoSubs
9	3	26	85	13	116.1	0.384	1.353	0.008	764.	571.	-43.6	0.1880	0.32	0.14	3.60	344.0	15.0	291.2	2.0	0	0.00	46.	1003.	2	NAD-SFC	NoSubs
9	3	26	85	14	107.8	0.423	1.358	0.008	832.	660.	-62.8	0.1880	0.32	0.14	4.10	339.0	15.0	292.1	2.0	0	0.00	43.	1003.	2	NAD-SFC	NoSubs
9	3	26	85	15	90.7	0.419	1.310	0.007	886.	650.	-72.2	0.1880	0.32	0.15	4.10	345.0	15.0	292.9	2.0	0	0.00	40.	1002.	2	NAD-SFC	NoSubs
9	3	26	85	16	65.5	0.546	1.192	0.007	924.	968.	-222.2	0.1880	0.32	0.17	5.70	342.0	15.0	294.1	2.0	0	0.00	37.	1001.	2	NAD-SFC	NoSubs
9	3	26	85	17	33.0	0.355	0.955	0.007	941.	541.	-121.3	0.1880	0.32	0.22	3.60	332.0	15.0	293.6	2.0	0	0.00	48.	1001.	2	NAD-SFC	NoSubs
9	3	26	85	18	-4.8	0.327	-9.000	-9.000	-999.	450.	656.2	0.1880	0.32	0.41	3.60	332.0	15.0	292.8	2.0	0	0.00	51.	1002.	2	NAD-SFC	NoSubs
9	3	26	85	19	-19.8	0.214	-9.000	-9.000	-999.	244.	44.1	0.1620	0.32	1.00	2.60	328.0	15.0	291.6	2.0	0	0.00	52.	1002.	2	NAD-SFC	NoSubs
9	3	26	85	20	-1.4	0.078	-9.000	-9.000	-999.	72.	30.8	0.1620	0.32	1.00	0.50	321.0	15.0	290.6	2.0	0	0.00	54.	1002.	2	NAD-SFC	NoSubs
9	3	26	85	21	-1.2	0.073	-9.000	-9.000	-999.	47.	28.9	0.0780	0.32	1.00	0.50	279.0	15.0	290.0	2.0	0	0.00	54.	1003.	2	NAD-SFC	NoSubs
9	3	26	85	22	-7.7	0.123	-9.000	-9.000	-999.	103.	21.4	0.0330	0.32	1.00	2.10	202.0	15.0	288.8	2.0	0	0.00	58.	1003.	2	NAD-SFC	NoSubs
9	3	26	85	23	-17.4	0.187	-9.000	-9.000	-999.	194.	33.4	0.0330	0.32	1.00	3.10	197.0	15.0	287.8	2.0	0	0.00	60.	1003.	2	NAD-SFC	NoSubs
9	3	26	85	24	-17.4	0.187	-9.000	-9.000	-999.	193.	33.4	0.0330	0.32	1.00	3.10	197.0	15.0	286.9	2.0	0	0.00	60.	1003.	2	NAD-SFC	NoSubs
9	3	27	86	1	-27.3	0.253	-9.000	-9.000	-999.	305.	52.8	0.0340	0.32	1.00	4.10	218.0	15.0	286.1	2.0	0	0.00	61.	1004.	2	NAD-SFC	NoSubs
9	3	27	86	2	-30.5	0.281	-9.000	-9.000	-999.	357.	64.8	0.0310	0.32	1.00	4.60	265.0	15.0	284.8	2.0	0	0.00	67.	1004.	2	NAD-SFC	NoSubs
9	3	27	86	3	-36.2	0.332	-9.000	-9.000	-999.	459.	90.6	0.0780	0.32	1.00	4.60	274.0	15.0	284.1	2.0	0	0.00	70.	1005.	2	NAD-SFC	NoSubs
9	3	27	86	4	-34.2	0.312	-9.000	-9.000	-999.	419.	80.0	0.0310	0.32	1.00	5.10	268.0	15.0	283.4	2.0	0	0.00	66.	1005.	2	NAD-SFC	NoSubs
9	3	27	86	5	-40.6	0.370	-9.000	-9.000	-999.	539.	111.7	0.0780	0.32	1.00	5.10	271.0	15.0	282.8	2.0	0	0.00	61.	1006.	2	NAD-SFC	NoSubs
9	3	27	86	6	-36.5	0.332	-9.000	-9.000	-999.	460.	90.0	0.0780	0.32	1.00	4.60	270.0	15.0	282.2	2.0	0	0.00	60.	1006.	2	NAD-SFC	NoSubs
9	3	27	86	7	-11.2	0.221	-9.000	-9.000	-999.	256.	86.2	0.0310	0.32	0.44	3.60	262.0	15.0	282.6	2.0	0	0.00	57.	1007.	2	NAD-SFC	NoSubs
9	3	27	86	8	27.9	0.263	0.411	0.005	89.	323.	-58.1	0.0780	0.32	0.23	3.10	274.0	15.0	284.8	2.0	0	0.00	47.	1007.	2	NAD-SFC	NoSubs
9	3	27	86	9	61.2	0.208	0.670	0.005	176.	228.	-13.2	0.0310	0.32	0.17	2.60	244.0	15.0	286.6	2.0	0	0.00	41.	1007.	2	NAD-SFC	NoSubs
9	3	27	86	10	87.9	0.245	0.925	0.005	323.	290.	-15.0	0.0310	0.32	0.15	3.10	243.0	15.0	288.5	2.0	0	0.00	36.	1007.	2	NAD-SFC	NoSubs
9	3	27	86	11	106.5	0.217	1.169	0.006	539.	243.	-8.6	0.0310	0.32	0.14	2.60	248.0	15.0	290.1	2.0	0	0.00	32.	1006.	2	NAD-SFC	NoSubs
9	3	27	86	12	116.3	0.188	1.321	0.006	711.	195.	-5.1	0.0310	0.32	0.14	2.10	261.0	15.0	291.6	2.0	0	0.00	29.	1005.	2	NAD-SFC	NoSubs
9	3	27	86	13	117.1	0.174	1.386	0.006	815.	174.	-4.0	0.0780	0.32	0.14	1.50	282.0	15.0	293.0	2.0	0	0.00	27.	1004.	2	NAD-SFC	NoSubs
9	3	27	86	14	108.9	0.152	1.399	0.006	901.	143.	-2.9	0.1620	0.32	0.14	1.00	300.0	15.0	294.0	2.0	0	0.00	25.	1004.	2	NAD-SFC	NoSubs
9	3	27	86	15	91.7	0.149	1.354	0.006	969.	138.	-3.2	0.1620	0.32	0.15	1.00	321.0	15.0	294.8	2.0	0	0.00	24.	1003.	2	NAD-SFC	NoSubs
9	3	27	86	16	66.2	0.193	1.233	0.005	1014.	204.	-9.7	0.1880	0.32	0.17	1.50	341.0	15.0	294.8	2.0	0	0.00	24.	1003.	2	NAD-SFC	NoSubs
9	3	27	86	17	33.7	0.231	0.993	0.005	1037.	267.	-32.8	0.1900	0.32	0.22	2.10	4.0	15.0	294.4	2.0	0	0.00	31.	1002.	2	NAD-SFC	NoSubs
9	3	27	86	18	-3.0	0.330	-9.000	-9.000	-999.	455.	1066.9	0.1900	0.32	0.41	3.60	13.0	15.0	293.4	2.0	0	0.00	36.	1003.	2	NAD-SFC	NoSubs
9	3	27	86	19	-38.2	0.360	-9.000	-9.000	-999.	519.	109.5	0.1900	0.32	1.00	4.10	18.0	15.0	292.0	2.0	0	0.00	40.	1003.	2	NAD-SFC	NoSubs
9	3	27	86	20	-18.2	0.202	-9.000	-9.000	-999.	236.	40.7	0.1280	0.32	1.00	2.60	35.0	15.0	290.8	2.0	0	0.00	44.	1004.	2	NAD-SFC	NoSubs
9	3	27	86	21	-1.2	0.072	-9.000	-9.000	-999.	68.	28.9	0.0760	0.32	1.00	0.50	70.0	15.0	289.4	2.0	0	0.00	49.	1004.	2	NAD-SFC	NoSubs
9	3	27	86	22	-1.0	0.067	-9.000	-9.000	-999.	42.	26.9	0.0340	0.32	1.00	0.50	215.0	15.0	288.0	2.0	0	0.00	55.	1004.	2	NAD-SFC	NoSubs
9	3	27	86	23	-1.0	0.067	-9.000	-9.000	-999.	42.	26.7	0.0310	0.32	1.00	0.50	253.0	15.0	286.8	2.0	0	0.00	61.	1005.	2	NAD-SFC	NoSubs
9	3	27	86	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	285.9	2.0	0	0.00	64.	1005.	2	NAD-SFC	NoSubs
9	3	28	87	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	285.2	2.0	0	0.00	66.	1004.	2	NAD-SFC	NoSubs
9	3	28	87	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	284.5	2.0	0	0.00	68.	1004.	2	NAD-SFC	NoSubs
9	3	28	87	3	-1.0	0.068	-9.000	-9.000	-999.	42.	27.0	0.0330	0.32	1.00	0.50	205.0	15.0	284.0	2.0	0	0.00	69.	1004.	2	NAD-SFC	NoSubs
9	3	28	87	4	-1.0	0.068	-9.000	-9.000	-999.	42.	27.0	0.0340	0.32	1.00	0.50	231.0	15.0	283.6	2.0	0	0.00	69.	1004.	2	NAD-SFC	NoSubs
9	3	28	87	5	-1.2	0.073	-9.000	-9.000	-999.	48.	29.2	0.0780	0.32	1.00	0.50	280.0	15.0	283.2	2.0	0	0.00	69.	1004.	2	NAD-SFC	NoSubs
9	3	28	87	6	-2.8	0.085	-9.000	-9.000	-999.	59.	19.4	0.0780	0.32	1.00	1.00	292.0	15.0	282.9	2.0	0	0.00	68.	1005.	2	NAD-SFC	NoSubs
9	3	28	87	7	-1.9	0.080	-9.000	-9.000	-999.	54.	24.7	0.1620	0.32	0.44	1.00	301.0	15.0	282.9	2.0	0	0.00	66.	1005.	2	NAD-SFC	NoSubs
9	3	28	87	8	29.0	0.173	0.383	0.006	69.	172.	-15.9	0.1620	0.32	0.23	1.50	325.0	15.0	285.6	2.0	0	0.00	55.	1005.	2	NAD-SFC	NoSubs
9	3	28	87	9	62.2	0.143	0.678	0.006	179.	129.	-4.2	0.1620	0.32	0.17	1.00	311.0	15.0	287.8	2.0	0	0.00	50.	1005.	2	NAD-SFC	NoSubs
9	3	28	87	10	89.0	0.098	0.972	0.005	370.	73.	-1.0	0.1620	0.32	0.15	0.50	304.0	15.0	290.2	2.0	0	0.00	41.	1005.	2	NAD-SFC	NoSubs
9	3	28	87	11	107.6	0.087	1.199	0.006	574.	61.	-1.0	0.0780	0.32	0.14	0.50	286.0	15.0	291.9	2.0	0	0.00	37.	1004.	2	NAD-SFC	NoSubs
9	3	28	87	12	117.3	0.101	1.334	0.007	725.	77.	-1.0	0.1620	0.32	0.14	0.50	303.0	15.0	293.4	2.0	0	0.00	33.	1003.	2	NAD-SFC	NoSubs
9	3	28	87	13	118.0	0.101	1.403	0.007	838.	77.	-1.0	0.1620	0.32	0.14	0.50	304.0	15.0	294.2	2.0	0	0.00	31.	1002.	2	NAD-SFC	NoSubs
9	3	28	87	14	109.7	0.157	1.419	0.007	932.	150.	-3.2	0.1880	0.32	0.14	1.00	332.0	15.0	295.0	2.0	0	0.00	30.	1001.	2	NAD-SFC	NoSubs
9	3	28	87	15	92.4	0.201	1.372	0.006	997.	216.	-7.8	0.1900	0.32	0.15	1.50	12.0	15.0	295.4	2.0	0	0.00	30.	1000.	2	NAD-SFC	NoSubs
9	3	28	87	16	66.8	0.179	1.247	0.006	1035.	182.	-7.7	0.1280	0.32	0.16	1.50	33.0	15.0	295.2	2.0	0	0.00	34.	999.	2	NAD-SFC	NoSubs
9	3	28	87	17	34.3	0.127	1.005	0.006	1053.	109.	-5.3	0.1280	0.32	0.22	1.00	38.0	15.0	294.8	2.0	0	0.00	38.	999.	2	NAD-SFC	NoSubs
9	3	28	87	18	16.7	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	0.40	0.00	0.0	15.0	293.8	2.0	0	0.00	43.	999.	2	NAD-SFC	NoSubs
9	3	28	87	19	-1.0	0.067	-9.000	-9.000	-999.	41.	26.7	0.0340	0.32	1.00	0.50	225.0	15.0	292.5	2.0	0	0.00	49.	999.	2	NAD-SFC	NoSubs
9	3	28	87	20	-4.1	0.092	-9.000	-9.000	-999.	67.	16.8	0.0340	0.32	1.00	1.50	227.0	15.0	291.5	2.0	0	0.00	53.	999.	2	NAD-SFC	NoSubs
9	3	28	87	21	-11.7	0.153	-9.000	-9.000	-999.	143.	27.0	0.0310	0.32	1.00	2.60	253.0	15.0	291.0	2.0	0	0.00	52.	999.	2	NAD-SFC	NoSubs
9	3	28	87	22	-23.1	0.217	-9.000	-9.000	-999.	242.	39.4	0.0310	0.32	1.00	3.60	269.0	15.0	289.8	2.0	0	0.00	52.	999.	2	NAD-SFC	NoSubs
9	3	28	87	23	-23.2	0.217	-9.000	-9.000	-999.	242.	39.2	0.0310	0.32	1.00	3.60	266.0	15.0	288.4	2.0	0	0.00	55.	999.	2	NAD-SFC	NoSubs
9	3	28	87	24	-22.1	0.219	-9.000	-9.000	-999.	246.	42.4	0.0780	0.32	1.00	3.10	282.0	15.0	287.6	2.0	0	0.00	62.	998.	2	NAD-SFC	NoSubs
9	3	29	88	1	-27.6	0.257	-9.000	-9.000	-999.	313.	54.8	0.0780	0.32	1.00	3.60	289.0	15.0	286.8	2.0	0	0.00	71.	999.	2	NAD-SFC	NoSubs
9	3	29	88	2	-37.3	0.346	-9.000	-9.000	-999.	489.	98.9	0.1620	0.32	1.00	4.10	304.0	15.0	285.8	2.0	0	0.00	81.	999.	2	NAD-SFC	NoSubs

9	3	29	88	3	-32.7	0.302	-9.000	-9.000	-999.	400.	75.2	0.1620	0.32	1.00	3.60	316.0	15.0	285.1	2.0	0	0.00	89.	999.	2	NAD-SFC NoSubs
9	3	29	88	4	-27.9	0.258	-9.000	-9.000	-999.	315.	54.8	0.1620	0.32	1.00	3.10	317.0	15.0	284.8	2.0	0	0.00	93.	999.	2	NAD-SFC NoSubs
9	3	29	88	5	-27.3	0.258	-9.000	-9.000	-999.	315.	56.2	0.1620	0.32	1.00	3.10	311.0	15.0	284.2	2.0	0	0.00	95.	1000.	3	NAD-SFC NoSubs
9	3	29	88	6	-15.3	0.181	-9.000	-9.000	-999.	188.	34.8	0.0780	0.32	1.00	2.60	298.0	15.0	283.8	2.0	0	0.00	98.	1000.	3	NAD-SFC NoSubs
9	3	29	88	7	-5.6	0.177	-9.000	-9.000	-999.	178.	88.0	0.1620	0.32	0.43	2.10	306.0	15.0	283.6	2.0	0	0.00	99.	1001.	3	NAD-SFC NoSubs
9	3	29	88	8	30.6	0.396	0.541	0.006	185.	599.	-181.6	0.1880	0.32	0.23	4.10	347.0	15.0	285.8	2.0	0	0.00	87.	1001.	3	NAD-SFC NoSubs
9	3	29	88	9	63.5	0.368	0.785	0.007	272.	537.	-70.2	0.1880	0.32	0.17	3.60	350.0	15.0	287.4	2.0	0	0.00	77.	1001.	3	NAD-SFC NoSubs
9	3	29	88	10	88.7	0.335	0.956	0.007	351.	467.	-37.9	0.1880	0.32	0.15	3.10	351.0	15.0	288.8	2.0	0	0.00	69.	1001.	4	NAD-SFC NoSubs
9	3	29	88	11	103.0	0.381	1.102	0.006	464.	563.	-47.8	0.1880	0.32	0.14	3.60	331.0	15.0	289.8	2.0	0	0.00	62.	1000.	5	NAD-SFC NoSubs
9	3	29	88	12	115.9	0.467	1.248	0.006	598.	765.	-78.3	0.1880	0.32	0.14	4.60	334.0	15.0	291.2	2.0	0	0.00	51.	1000.	4	NAD-SFC NoSubs
9	3	29	88	13	118.0	0.625	1.330	0.006	711.	1184.	-184.2	0.1620	0.32	0.14	6.70	329.0	15.0	292.0	2.0	0	0.00	41.	999.	3	NAD-SFC NoSubs
9	3	29	88	14	109.6	0.665	1.351	0.006	803.	1298.	-238.7	0.1620	0.32	0.14	7.20	326.0	15.0	292.2	2.0	0	0.00	34.	999.	3	NAD-SFC NoSubs
9	3	29	88	15	92.2	0.703	1.311	0.006	872.	1412.	-335.4	0.1620	0.32	0.15	7.70	317.0	15.0	292.2	2.0	0	0.00	30.	999.	2	NAD-SFC NoSubs
9	3	29	88	16	66.5	0.740	1.197	0.007	918.	1525.	-542.2	0.1620	0.32	0.16	8.20	328.0	15.0	291.8	2.0	0	0.00	30.	998.	2	NAD-SFC NoSubs
9	3	29	88	17	33.9	0.519	0.963	0.005	939.	952.	-367.0	0.1620	0.32	0.22	5.70	322.0	15.0	290.5	2.0	0	0.00	41.	998.	2	NAD-SFC NoSubs
9	3	29	88	18	-4.6	0.452	-9.000	-9.000	-999.	738.	1801.3	0.1620	0.32	0.40	5.10	307.0	15.0	288.6	2.0	0	0.00	48.	999.	2	NAD-SFC NoSubs
9	3	29	88	19	-35.8	0.332	-9.000	-9.000	-999.	470.	91.4	0.0780	0.32	1.00	4.60	297.0	15.0	286.6	2.0	0	0.00	52.	1000.	2	NAD-SFC NoSubs
9	3	29	88	20	-31.8	0.295	-9.000	-9.000	-999.	385.	71.6	0.0780	0.32	1.00	4.10	299.0	15.0	285.4	2.0	0	0.00	54.	1000.	2	NAD-SFC NoSubs
9	3	29	88	21	-5.1	0.105	-9.000	-9.000	-999.	124.	19.8	0.0780	0.32	1.00	1.50	286.0	15.0	284.8	2.0	0	0.00	54.	1001.	2	NAD-SFC NoSubs
9	3	29	88	22	-2.3	0.077	-9.000	-9.000	-999.	52.	17.5	0.0330	0.32	1.00	1.00	185.0	15.0	284.2	2.0	0	0.00	54.	1001.	2	NAD-SFC NoSubs
9	3	29	88	23	-12.1	0.154	-9.000	-9.000	-999.	145.	27.0	0.0330	0.32	1.00	2.60	195.0	15.0	283.9	2.0	0	0.00	52.	1002.	2	NAD-SFC NoSubs
9	3	29	88	24	-27.5	0.251	-9.000	-9.000	-999.	302.	51.6	0.0330	0.32	1.00	4.10	201.0	15.0	282.9	2.0	0	0.00	55.	1002.	2	NAD-SFC NoSubs
9	3	30	89	1	-24.1	0.220	-9.000	-9.000	-999.	248.	39.5	0.0340	0.32	1.00	3.60	215.0	15.0	282.0	2.0	0	0.00	58.	1002.	2	NAD-SFC NoSubs
9	3	30	89	2	-17.6	0.186	-9.000	-9.000	-999.	194.	33.0	0.0330	0.32	1.00	3.10	209.0	15.0	281.4	2.0	0	0.00	60.	1003.	2	NAD-SFC NoSubs
9	3	30	89	3	-17.3	0.184	-9.000	-9.000	-999.	190.	32.5	0.0310	0.32	1.00	3.10	240.0	15.0	280.9	2.0	0	0.00	61.	1003.	2	NAD-SFC NoSubs
9	3	30	89	4	-28.4	0.257	-9.000	-9.000	-999.	312.	53.4	0.0780	0.32	1.00	3.60	271.0	15.0	280.2	2.0	0	0.00	63.	1004.	2	NAD-SFC NoSubs
9	3	30	89	5	-32.6	0.294	-9.000	-9.000	-999.	383.	70.1	0.0780	0.32	1.00	4.10	276.0	15.0	279.5	2.0	0	0.00	64.	1004.	2	NAD-SFC NoSubs
9	3	30	89	6	-22.6	0.219	-9.000	-9.000	-999.	248.	41.6	0.0780	0.32	1.00	3.10	295.0	15.0	278.9	2.0	0	0.00	65.	1005.	2	NAD-SFC NoSubs
9	3	30	89	7	-6.5	0.176	-9.000	-9.000	-999.	178.	75.3	0.1620	0.32	0.42	2.10	301.0	15.0	279.2	2.0	0	0.00	64.	1006.	2	NAD-SFC NoSubs
9	3	30	89	8	30.2	0.222	0.471	0.008	124.	251.	-32.5	0.1620	0.32	0.22	2.10	329.0	15.0	281.2	2.0	0	0.00	52.	1007.	2	NAD-SFC NoSubs
9	3	30	89	9	63.2	0.124	0.793	0.008	283.	109.	-2.7	0.0780	0.32	0.17	1.00	297.0	15.0	283.2	2.0	0	0.00	46.	1007.	2	NAD-SFC NoSubs
9	3	30	89	10	89.7	0.084	1.000	0.008	400.	59.	-1.0	0.0780	0.32	0.15	0.50	270.0	15.0	285.0	2.0	0	0.00	42.	1007.	2	NAD-SFC NoSubs
9	3	30	89	11	108.0	0.087	1.164	0.008	525.	61.	-1.0	0.0780	0.32	0.14	0.50	271.0	15.0	286.8	2.0	0	0.00	37.	1007.	2	NAD-SFC NoSubs
9	3	30	89	12	117.6	0.134	1.276	0.007	634.	117.	-1.8	0.0780	0.32	0.14	1.00	292.0	15.0	288.2	2.0	0	0.00	34.	1006.	2	NAD-SFC NoSubs
9	3	30	89	13	118.2	0.174	1.335	0.007	723.	174.	-4.0	0.0780	0.32	0.14	1.50	294.0	15.0	289.8	2.0	0	0.00	31.	1005.	2	NAD-SFC NoSubs
9	3	30	89	14	109.8	0.218	1.345	0.006	795.	243.	-8.4	0.0780	0.32	0.14	2.10	299.0	15.0	290.8	2.0	0	0.00	28.	1005.	2	NAD-SFC NoSubs
9	3	30	89	15	92.6	0.245	1.301	0.006	852.	291.	-14.3	0.1620	0.32	0.15	2.10	323.0	15.0	291.5	2.0	0	0.00	27.	1004.	2	NAD-SFC NoSubs
9	3	30	89	16	67.1	0.278	1.185	0.005	890.	352.	-28.8	0.1620	0.32	0.16	2.60	325.0	15.0	291.8	2.0	0	0.00	27.	1004.	2	NAD-SFC NoSubs
9	3	30	89	17	34.6	0.265	0.957	0.005	908.	327.	-47.9	0.1620	0.32	0.22	2.60	328.0	15.0	291.4	2.0	0	0.00	31.	1004.	2	NAD-SFC NoSubs
9	3	30	89	18	-0.7	0.286	-9.000	-9.000	-999.	367.	3009.5	0.1880	0.32	0.39	3.10	354.0	15.0	290.6	2.0	0	0.00	37.	1005.	2	NAD-SFC NoSubs
9	3	30	89	19	-28.7	0.268	-9.000	-9.000	-999.	333.	60.1	0.1880	0.32	1.00	3.10	350.0	15.0	289.6	2.0	0	0.00	40.	1005.	2	NAD-SFC NoSubs
9	3	30	89	20	-6.9	0.125	-9.000	-9.000	-999.	121.	25.2	0.1880	0.32	1.00	1.50	347.0	15.0	288.5	2.0	0	0.00	43.	1006.	2	NAD-SFC NoSubs
9	3	30	89	21	-1.2	0.073	-9.000	-9.000	-999.	48.	29.0	0.0780	0.32	1.00	0.50	295.0	15.0	287.1	2.0	0	0.00	49.	1006.	2	NAD-SFC NoSubs
9	3	30	89	22	-1.0	0.067	-9.000	-9.000	-999.	42.	26.7	0.0310	0.32	1.00	0.50	244.0	15.0	285.8	2.0	0	0.00	54.	1007.	2	NAD-SFC NoSubs
9	3	30	89	23	-1.0	0.067	-9.000	-9.000	-999.	42.	26.8	0.0310	0.32	1.00	0.50	247.0	15.0	284.8	2.0	0	0.00	58.	1007.	2	NAD-SFC NoSubs
9	3	30	89	24	-1.0	0.067	-9.000	-9.000	-999.	42.	26.8	0.0310	0.32	1.00	0.50	251.0	15.0	283.9	2.0	0	0.00	60.	1007.	2	NAD-SFC NoSubs
9	3	31	90	1	-1.2	0.073	-9.000	-9.000	-999.	48.	29.2	0.0780	0.32	1.00	0.50	276.0	15.0	283.2	2.0	0	0.00	61.	1007.	2	NAD-SFC NoSubs
9	3	31	90	2	-3.4	0.093	-9.000	-9.000	-999.	68.	21.5	0.1620	0.32	1.00	1.00	303.0	15.0	282.9	2.0	0	0.00	61.	1007.	2	NAD-SFC NoSubs
9	3	31	90	3	-3.4	0.093	-9.000	-9.000	-999.	68.	21.5	0.1620	0.32	1.00	1.00	304.0	15.0	282.5	2.0	0	0.00	61.	1007.	2	NAD-SFC NoSubs
9	3	31	90	4	-6.6	0.121	-9.000	-9.000	-999.	100.	23.9	0.1620	0.32	1.00	1.50	302.0	15.0	282.1	2.0	0	0.00	61.	1007.	2	NAD-SFC NoSubs
9	3	31	90	5	-5.2	0.105	-9.000	-9.000	-999.	81.	19.8	0.0780	0.32	1.00	1.50	297.0	15.0	281.6	2.0	0	0.00	62.	1007.	2	NAD-SFC NoSubs
9	3	31	90	6	-5.2	0.105	-9.000	-9.000	-999.	81.	19.8	0.0780	0.32	1.00	1.50	296.0	15.0	281.2	2.0	0	0.00	64.	1007.	2	NAD-SFC NoSubs
9	3	31	90	7	-2.7	0.105	-9.000	-9.000	-999.	82.	38.5	0.0780	0.32	0.41	1.50	293.0	15.0	281.1	2.0	0	0.00	65.	1008.	2	NAD-SFC NoSubs
9	3	31	90	8	31.3	0.132	0.418	0.009	84.	115.	-6.6	0.1620	0.32	0.22	1.00	308.0	15.0	283.4	2.0	0	0.00	60.	1008.	2	NAD-SFC NoSubs
9	3	31	90	9	64.4	-9.000	-9.000	-9.000	177.	-999.	-99999.0	0.0879	0.32	0.17	0.00	0.0	15.0	285.5	2.0	0	0.00	54.	1008.	2	NAD-SFC NoSubs
9	3	31	90	10	90.9	-9.000	-9.000	-9.000	319.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	288.0	2.0	0	0.00	45.	1007.	2	NAD-SFC NoSubs
9	3	31	90	11	109.2	-9.000	-9.000	-9.000	539.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	289.8	2.0	0	0.00	40.	1007.	2	NAD-SFC NoSubs
9	3	31	90	12	118.8	0.074	1.337	0.007	723.	48.	-1.0	0.0310	0.32	0.14	0.50	261.0	15.0	291.1	2.0	0	0.00	37.	1006.	2	NAD-SFC NoSubs
9	3	31	90	13	119.4	0.088	1.405	0.008	834.	63.	-1.0	0.0780	0.32	0.14	0.50	278.0	15.0	292.5	2.0	0	0.00	34.	1004.	2	NAD-SFC NoSubs
9	3	31	90	14	111.0	0.153	1.421	0.008	925.	143.	-2.9	0.1620	0.32	0.14	1.00	312.0	15.0	293.6	2.0	0	0.00	30.	1003.	2	NAD-SFC NoSubs
9	3	31	90	15	93.7	0.253	1.373	0.008	988.	305.	-15.4	0.1880	0.32	0.15	2.10	335.0	15.0	294.2	2.0	0	0.00	29.	1002.	2	NAD-SFC NoSubs
9	3	31	90	16	68.1	0.370	1.248	0.008	1021.	540.	-66.4	0.1880	0.32	0.16	3.60	345.0	15.0	294.2	2.0	0	0.00	32.	1002.	2	NAD-SFC NoSubs
9	3	31	90	17	35.6	0.315	1.011	0.008	1038.	425.	-78.1	0.1880	0.32	0.21	3.10	354.0	15.0	293.6	2.0	0	0.00	41.	1001.	2	NAD-SFC NoSubs
9	3	31	90	18	0.6	0.330	0.258	0.008	1036.	454.	-5409.0	0.1880	0.32	0.39	3.60	357.0	15.0	292.8	2.0	0	0.00	44.	1002.	2	NAD-SFC NoSubs
9	3	31	90	19	-28.4	0.268	-9.000	-9.000	-999.	335.	60.6	0.1880	0.32	1.00	3.10	341.0	15.0	291.8	2.0	0	0.00	45.	1002.	2	NAD-SFC NoSubs
9	3	31	90	20	-27.5	0.258	-9.000	-9.000	-999.	315.	56.0	0.1620	0.32	1.00	3.10	313.0	15.0	290.8	2.0	0	0.00	48.	1002.	2	NAD-SFC NoSubs
9	3	31	90	21	-32.3	0.302	-9.000	-9.000	-999.	399.	76.4	0.1620	0.32	1.00	3.60	301.0	15.0	289.2	2.0	0	0.00	52.	1002.	2	NAD-SFC NoSubs
9	3	31	90	22	-22.2	0.219	-9.000	-9.000	-999.	249.	42.4	0.0780	0.32	1.00	3.10	286.0	15.0	288.0	2.0	0	0.00	57.	1002.	2	NAD-SFC NoSubs
9	3	31	90	23	-9.9	0.144	-9.000	-9.000	-999.	133.	26.9	0.0780	0.32	1.00	2.10	296.0	15.0	287.1	2.0	0	0.00	59.	1002.	2	NAD-SFC NoSubs
9	3	31	90	24	-6.5	0.120	-9.000	-9.000	-999.	100.	24.0	0.1620	0.32	1.00	1.50	314.0	15.0	286.2	2.0	0	0.00	62.	1002.	2	NAD-SFC NoSubs
9	4	1	91	1	-6.4	0.120	-9.000	-9.000	-999.	100.	24.3	0.1620	0.32	1.00	1.50	309.0	15.0	285.8	2.0	0	0.00	67.	1002.	3	NAD-SFC NoSubs
9	4	1	91	2	-6.4	0.120	-9.000	-9.000	-999.	100.	24.2	0.1620	0.32	1.00	1.50	309.0	15.0	285.1	2.0	0	0.00	72.	1002.	3	NAD-SFC NoSubs
9	4	1	91	3	-6.4	0.120	-9.000	-9.000	-999.	100.	24.2	0.1620	0.32	1.00	1.50	314.0	15.0	284.8	2.0	0	0.00	78.	1002.	3	NAD-SFC NoSubs
9	4	1	91	4	-3.3	0.092	-9.000	-9.000	-999.	67.	21.4	0.1620	0.32	1.00	1.00	311.0	15.0	284.2	2.0	0	0.00	83.	1002.	3	NAD-SFC NoSubs
9	4	1	91	5	-2.7	0.084	-9.000	-9.000	-999.	58.	19.3	0.0780	0.32	1.00	1.00	279.0	15.0	283.9	2.0	0	0.00	86.	1002.	3	NAD-SFC NoSubs
9	4	1	91	6	-2.3	0.076	-9.000	-9.000	-999.	50.	17.3	0.0310	0.32	1.00	1.00	252.0	15.0	283.6	2.0	0	0.00	86.	1002.	3	NAD-SFC NoSubs
9	4	1	91	7	-0.8	0.059	-9.000	-9.000	-999.	34.	23.2	0.0340	0.32	0.40	1.00	223.0	15.0	283.8	2.0	0	0.00	84.	1003.	2	NAD-SFC NoSubs

9	4	1	91	8	32.5	0.397	0.526	0.005	160.	601.	-172.7	0.1880	0.32	0.22	4.10	352.0	15.0	285.8	2.0	0	0.00	65.	1003.	2	NAD-SFC	NoSubs
9	4	1	91	9	65.5	0.411	0.823	0.005	304.	631.	-94.6	0.1880	0.32	0.16	4.10	346.0	15.0	287.2	2.0	0	0.00	55.	1003.	2	NAD-SFC	NoSubs
9	4	1	91	10	91.7	0.377	1.037	0.005	435.	558.	-52.4	0.1880	0.32	0.15	3.60	352.0	15.0	288.6	2.0	0	0.00	48.	1003.	2	NAD-SFC	NoSubs
9	4	1	91	11	110.0	0.382	1.201	0.005	564.	568.	-45.4	0.1880	0.32	0.14	3.60	345.0	15.0	290.0	2.0	0	0.00	42.	1002.	2	NAD-SFC	NoSubs
9	4	1	91	12	119.4	0.426	1.319	0.005	688.	667.	-57.8	0.1880	0.32	0.14	4.10	337.0	15.0	291.0	2.0	0	0.00	40.	1002.	2	NAD-SFC	NoSubs
9	4	1	91	13	119.8	0.426	1.413	0.005	842.	667.	-57.6	0.1880	0.32	0.14	4.10	338.0	15.0	291.8	2.0	0	0.00	38.	1001.	2	NAD-SFC	NoSubs
9	4	1	91	14	111.3	0.383	1.442	0.005	963.	570.	-45.0	0.1880	0.32	0.14	3.60	341.0	15.0	292.6	2.0	0	0.00	36.	1001.	2	NAD-SFC	NoSubs
9	4	1	91	15	94.0	0.295	1.401	0.006	1044.	389.	-24.3	0.1880	0.32	0.15	2.60	338.0	15.0	293.2	2.0	0	0.00	34.	1000.	2	NAD-SFC	NoSubs
9	4	1	91	16	68.5	0.245	1.282	0.006	1098.	292.	-19.2	0.1880	0.32	0.16	2.10	344.0	15.0	293.5	2.0	0	0.00	34.	1000.	2	NAD-SFC	NoSubs
9	4	1	91	17	36.1	0.176	1.044	0.006	1125.	179.	-13.6	0.1620	0.32	0.21	1.50	328.0	15.0	293.6	2.0	0	0.00	35.	1000.	2	NAD-SFC	NoSubs
9	4	1	91	18	1.1	0.050	0.329	0.006	1124.	47.	-10.2	0.0780	0.32	0.38	0.50	292.0	15.0	293.2	2.0	0	0.00	41.	1001.	2	NAD-SFC	NoSubs
9	4	1	91	19	-2.7	0.084	-9.000	-9.000	-999.	58.	19.3	0.0780	0.32	1.00	1.00	295.0	15.0	291.9	2.0	0	0.00	46.	1001.	2	NAD-SFC	NoSubs
9	4	1	91	20	-3.3	0.093	-9.000	-9.000	-999.	68.	21.4	0.1620	0.32	1.00	1.00	300.0	15.0	290.5	2.0	0	0.00	52.	1001.	2	NAD-SFC	NoSubs
9	4	1	91	21	-1.4	0.079	-9.000	-9.000	-999.	53.	30.8	0.1620	0.32	1.00	0.50	302.0	15.0	289.4	2.0	0	0.00	56.	1001.	2	NAD-SFC	NoSubs
9	4	1	91	22	-1.2	0.073	-9.000	-9.000	-999.	47.	28.9	0.0760	0.32	1.00	0.50	75.0	15.0	288.4	2.0	0	0.00	60.	1002.	2	NAD-SFC	NoSubs
9	4	1	91	23	-2.5	0.080	-9.000	-9.000	-999.	55.	18.4	0.0510	0.32	1.00	1.00	98.0	15.0	287.2	2.0	0	0.00	64.	1002.	2	NAD-SFC	NoSubs
9	4	1	91	24	-1.1	0.070	-9.000	-9.000	-999.	44.	28.0	0.0510	0.32	1.00	0.50	105.0	15.0	286.4	2.0	0	0.00	68.	1002.	2	NAD-SFC	NoSubs
9	4	2	92	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	285.6	2.0	0	0.00	71.	1001.	2	NAD-SFC	NoSubs
9	4	2	92	2	-1.4	0.079	-9.000	-9.000	-999.	53.	31.0	0.1620	0.32	1.00	0.50	325.0	15.0	285.0	2.0	0	0.00	73.	1001.	2	NAD-SFC	NoSubs
9	4	2	92	3	-3.4	0.093	-9.000	-9.000	-999.	68.	21.5	0.1620	0.32	1.00	1.00	319.0	15.0	284.6	2.0	0	0.00	74.	1001.	2	NAD-SFC	NoSubs
9	4	2	92	4	-3.4	0.093	-9.000	-9.000	-999.	68.	21.5	0.1620	0.32	1.00	1.00	317.0	15.0	284.2	2.0	0	0.00	75.	1001.	2	NAD-SFC	NoSubs
9	4	2	92	5	-1.4	0.079	-9.000	-9.000	-999.	54.	31.0	0.1620	0.32	1.00	0.50	324.0	15.0	283.8	2.0	0	0.00	78.	1001.	2	NAD-SFC	NoSubs
9	4	2	92	6	-1.4	0.079	-9.000	-9.000	-999.	54.	31.0	0.1620	0.32	1.00	0.50	312.0	15.0	283.4	2.0	0	0.00	80.	1001.	2	NAD-SFC	NoSubs
9	4	2	92	7	-0.2	0.036	-9.000	-9.000	-999.	17.	18.8	0.0780	0.32	0.40	0.50	297.0	15.0	283.2	2.0	0	0.00	81.	1002.	2	NAD-SFC	NoSubs
9	4	2	92	8	33.3	0.180	0.484	0.009	121.	184.	-15.7	0.1880	0.32	0.22	1.50	340.0	15.0	285.2	2.0	0	0.00	76.	1002.	2	NAD-SFC	NoSubs
9	4	2	92	9	66.3	0.094	0.761	0.009	237.	72.	-1.1	0.1620	0.32	0.16	0.50	319.0	15.0	287.5	2.0	0	0.00	66.	1002.	2	NAD-SFC	NoSubs
9	4	2	92	10	92.6	0.149	0.972	0.008	355.	139.	-3.2	0.1620	0.32	0.15	1.00	311.0	15.0	289.2	2.0	0	0.00	59.	1002.	2	NAD-SFC	NoSubs
9	4	2	92	11	110.8	0.199	1.154	0.009	495.	213.	-6.3	0.1620	0.32	0.14	1.50	314.0	15.0	291.0	2.0	0	0.00	53.	1001.	2	NAD-SFC	NoSubs
9	4	2	92	12	120.2	0.259	1.282	0.010	626.	317.	-13.0	0.1880	0.32	0.14	2.10	331.0	15.0	292.2	2.0	0	0.00	48.	1001.	2	NAD-SFC	NoSubs
9	4	2	92	13	120.7	0.333	1.341	0.010	713.	462.	-27.4	0.1620	0.32	0.14	3.10	329.0	15.0	293.4	2.0	0	0.00	45.	1000.	2	NAD-SFC	NoSubs
9	4	2	92	14	112.1	0.466	1.347	0.011	778.	763.	-80.4	0.1880	0.32	0.14	4.60	337.0	15.0	293.9	2.0	0	0.00	45.	999.	3	NAD-SFC	NoSubs
9	4	2	92	15	94.8	0.597	1.301	0.009	828.	1105.	-199.9	0.1880	0.32	0.15	6.20	340.0	15.0	293.8	2.0	0	0.00	49.	999.	3	NAD-SFC	NoSubs
9	4	2	92	16	69.2	0.677	1.187	0.006	862.	1334.	-399.4	0.1880	0.32	0.16	7.20	339.0	15.0	292.9	2.0	0	0.00	56.	999.	3	NAD-SFC	NoSubs
9	4	2	92	17	36.7	0.758	0.967	0.005	877.	1580.	-1056.0	0.1880	0.32	0.21	8.20	340.0	15.0	291.2	2.0	0	0.00	65.	999.	3	NAD-SFC	NoSubs
9	4	2	92	18	2.5	0.704	0.394	0.005	874.	1424.	-8888.0	0.1880	0.32	0.38	7.70	335.0	15.0	288.6	2.0	0	0.00	76.	1000.	4	NAD-SFC	NoSubs
9	4	2	92	19	-64.0	0.688	-9.000	-9.000	-999.	1373.	455.2	0.1880	0.32	1.00	7.70	334.0	15.0	286.4	2.0	0	0.00	81.	1001.	5	NAD-SFC	NoSubs
9	4	2	92	20	-48.5	0.580	-9.000	-9.000	-999.	1076.	360.4	0.1620	0.32	1.00	6.70	326.0	15.0	285.1	2.0	0	0.00	82.	1002.	7	NAD-SFC	NoSubs
9	4	2	92	21	-36.6	0.437	-9.000	-9.000	-999.	713.	203.5	0.1620	0.32	1.00	5.10	329.0	15.0	284.4	2.0	0	0.00	83.	1002.	7	NAD-SFC	NoSubs
9	4	2	92	22	-29.2	0.348	-9.000	-9.000	-999.	499.	129.0	0.1620	0.32	1.00	4.10	319.0	15.0	284.0	2.0	0	0.00	84.	1002.	7	NAD-SFC	NoSubs
9	4	2	92	23	-17.0	0.306	-9.000	-9.000	-999.	408.	150.9	0.1620	0.32	1.00	3.60	308.0	15.0	283.8	2.0	0	0.00	84.	1002.	10	NAD-SFC	NoSubs
9	4	2	92	24	-17.0	0.306	-9.000	-9.000	-999.	407.	151.1	0.1620	0.32	1.00	3.60	306.0	15.0	284.0	2.0	0	0.00	84.	1002.	10	NAD-SFC	NoSubs
9	4	3	93	1	-12.1	0.218	-9.000	-9.000	-999.	248.	76.7	0.1620	0.32	1.00	2.60	300.0	15.0	284.1	2.0	0	0.00	83.	1001.	10	NAD-SFC	NoSubs
9	4	3	93	2	-9.4	0.174	-9.000	-9.000	-999.	175.	50.1	0.1620	0.32	1.00	2.10	302.0	15.0	284.1	2.0	0	0.00	82.	1001.	10	NAD-SFC	NoSubs
9	4	3	93	3	-17.0	0.306	-9.000	-9.000	-999.	407.	150.9	0.1620	0.32	1.00	3.60	316.0	15.0	283.8	2.0	0	0.00	79.	1001.	10	NAD-SFC	NoSubs
9	4	3	93	4	-38.1	0.391	-9.000	-9.000	-999.	586.	140.1	0.1620	0.32	1.00	4.60	326.0	15.0	283.2	2.0	0	0.00	78.	1001.	5	NAD-SFC	NoSubs
9	4	3	93	5	-35.6	0.346	-9.000	-9.000	-999.	491.	104.3	0.1620	0.32	1.00	4.10	328.0	15.0	282.2	2.0	0	0.00	81.	1001.	4	NAD-SFC	NoSubs
9	4	3	93	6	-27.7	0.258	-9.000	-9.000	-999.	319.	55.6	0.1620	0.32	1.00	3.10	325.0	15.0	281.1	2.0	0	0.00	84.	1002.	3	NAD-SFC	NoSubs
9	4	3	93	7	-1.0	0.574	-9.000	-9.000	-999.	1044.	8888.0	0.1880	0.32	0.39	6.20	330.0	15.0	281.5	2.0	0	0.00	75.	1002.	3	NAD-SFC	NoSubs
9	4	3	93	8	34.5	0.668	0.725	0.005	394.	1309.	-773.8	0.1880	0.32	0.21	7.20	334.0	15.0	282.8	2.0	0	0.00	62.	1003.	3	NAD-SFC	NoSubs
9	4	3	93	9	66.6	0.720	0.972	0.007	493.	1464.	-501.7	0.1880	0.32	0.16	7.70	333.0	15.0	284.2	2.0	0	0.00	53.	1003.	2	NAD-SFC	NoSubs
9	4	3	93	10	92.7	0.813	1.161	0.010	605.	1755.	-518.7	0.1880	0.32	0.15	8.70	333.0	15.0	285.8	2.0	0	0.00	46.	1003.	2	NAD-SFC	NoSubs
9	4	3	93	11	110.7	0.884	1.320	0.008	743.	1989.	-558.3	0.1620	0.32	0.14	9.80	328.0	15.0	286.5	2.0	0	0.00	43.	1003.	2	NAD-SFC	NoSubs
9	4	3	93	12	119.8	0.914	1.439	0.008	891.	2094.	-570.0	0.1880	0.32	0.14	9.80	334.0	15.0	287.4	2.0	0	0.00	37.	1002.	3	NAD-SFC	NoSubs
9	4	3	93	13	120.2	0.914	1.500	0.008	1005.	2098.	-568.2	0.1880	0.32	0.14	9.80	332.0	15.0	288.2	2.0	0	0.00	32.	1002.	2	NAD-SFC	NoSubs
9	4	3	93	14	111.6	0.842	1.500	0.009	1082.	1867.	-477.3	0.1620	0.32	0.14	9.30	317.0	15.0	288.8	2.0	0	0.00	30.	1002.	2	NAD-SFC	NoSubs
9	4	3	93	15	94.1	0.788	1.443	0.009	1143.	1687.	-464.1	0.1620	0.32	0.15	8.70	325.0	15.0	289.0	2.0	0	0.00	28.	1002.	2	NAD-SFC	NoSubs
9	4	3	93	16	68.5	0.740	1.314	0.007	1185.	1536.	-529.5	0.1620	0.32	0.16	8.20	323.0	15.0	289.0	2.0	0	0.00	28.	1002.	2	NAD-SFC	NoSubs
9	4	3	93	17	36.0	0.470	1.066	0.005	1206.	857.	-257.2	0.1620	0.32	0.21	5.10	323.0	15.0	288.2	2.0	0	0.00	39.	1002.	2	NAD-SFC	NoSubs
9	4	3	93	18	0.7	0.351	0.288	0.005	1203.	517.	-5451.4	0.0780	0.32	0.38	4.60	296.0	15.0	286.8	2.0	0	0.00	47.	1002.	2	NAD-SFC	NoSubs
9	4	3	93	19	-31.9	0.295	-9.000	-9.000	-999.	386.	71.6	0.0780	0.32	1.00	4.10	299.0	15.0	285.2	2.0	0	0.00	51.	1002.	2	NAD-SFC	NoSubs
9	4	3	93	20	-28.0	0.257	-9.000	-9.000	-999.	313.	54.2	0.0780	0.32	1.00	3.60	297.0	15.0	284.2	2.0	0	0.00	52.	1003.	2	NAD-SFC	NoSubs
9	4	3	93	21	-12.9	0.169	-9.000	-9.000	-999.	170.	33.8	0.1620	0.32	1.00	2.10	311.0	15.0	283.8	2.0	0	0.00	52.	1003.	2	NAD-SFC	NoSubs
9	4	3	93	22	-1.4	0.077	-9.000	-9.000	-999.	56.	30.5	0.1280	0.32	1.00	0.50	38.0	15.0	283.1	2.0	0	0.00	54.	1003.	2	NAD-SFC	NoSubs
9	4	3	93	23	-2.8	0.084	-9.000	-9.000	-999.	59.	19.4	0.0760	0.32	1.00	1.00	88.0	15.0	283.0	2.0	0	0.00	53.	1004.	2	NAD-SFC	NoSubs
9	4	3	93	24	-1.4	0.077	-9.000	-9.000	-999.	52.	30.5	0.1280	0.32	1.00	0.50	33.0	15.0	282.8	2.0	0	0.00	53.	1004.	2	NAD-SFC	NoSubs
9	4	4	94	1	-1.0	0.067	-9.000	-9.000	-999.	42.	26.9	0.0310	0.32	1.00	0.50	263.0	15.0	282.0	2.0	0	0.00	56.	1004.	2	NAD-SFC	NoSubs
9	4	4	94	2	-7.9	0.123	-9.000	-9.000	-999.	104.	21.3	0.0340	0.32	1.00	2.10	232.0	15.0	281.2	2.0	0	0.00	59.	1004.	2	NAD-SFC	NoSubs
9	4	4	94	3	-17.3	0.184	-9.000	-9.000	-999.	190.	32.4	0.0310	0.32	1.00	3.10	242.0	15.0	280.8	2.0	0	0.00	60.	1004.	2	NAD-SFC	NoSubs
9	4	4	94	4	-23.7	0.217	-9.000	-9.000	-999.	242.	38.4	0.0310	0.32	1.00	3.60	260.0	15.0	279.8	2.0	0	0.00	64.	1005.	2	NAD-SFC	NoSubs
9	4	4	94	5	-32.7	0.294	-9.000	-9.000	-999.	383.	69.9	0.0780	0.32	1.00	4.10	278.0	15.0	279.0	2.0	0	0.00	69.	1005.	2	NAD-SFC	NoSubs
9	4	4	94	6	-32.8	0.294	-9.000	-9.000	-999.	383.	69.7	0.0780	0.32	1.00	4.10	287.0	15.0	278.2	2.0	0	0.00	70.	1006.	2	NAD-SFC	NoSubs
9	4	4	94	7	-2.5	0.364	-9.000	-9.000	-999.	526.	1756.4	0.1620	0.32	0.38	4.10	311.0	15.0	278.9	2.0	0	0.00	64.	1007.	2	NAD-SFC	NoSubs
9	4	4	94	8	34.5	0.356	0.538	0.005	162.	510.	-117.6	0.1880	0.32	0.21	3.60	334.0	15.0	281.1	2.0	0	0.00	48.	1007.	2	NAD-SFC	NoSubs
9	4	4	94	9	67.2	0.144	0.822	0.006	296.	181.	-4.0	0.1620	0.32	0.16	1.00	326.0	15.0	282.9	2.0	0	0.00	41.	1007.	2	NAD-SFC	NoSubs
9	4	4	94	10	93.3	-9.000	-9.000	-9.000	419.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	284.4	2.0	0	0.00	39.	1007.	2	NAD-SFC	NoSubs
9	4	4	94	11	111.2	-9.000	-9.000	-9.000	585.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	285.8	2.0	0	0.00	36.	1007.	2	NAD-SFC	NoSubs
9	4	4	94	12	120.5	0.074	1.345	0.005	726.	48.	-1.0	0.0310	0.32	0.14	0.50	255.0	15.0	287.2	2.0	0	0.00	33.	1006.	2	NAD-SFC	NoSubs

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 9  4  4  94 13  120.8 -9.000 -9.000 -9.000  845. -999. -99999.0 0.0879 0.32 0.14 0.00   0.0 15.0 288.6 2.0 0 0.00 28. 1006.  2 NAD-SFC NoSubs
 9  4  4  94 14  112.3 -9.000 -9.000 -9.000  944. -999. -99999.0 0.0879 0.32 0.14 0.00   0.0 15.0 289.6 2.0 0 0.00 26. 1005.  2 NAD-SFC NoSubs
 9  4  4  94 15   94.8  0.150  1.403  0.005 1044.  139.     -3.2 0.1620 0.32 0.15 1.00 318.0 15.0 290.2 2.0 0 0.00 25. 1005.  2 NAD-SFC NoSubs
 9  4  4  94 16   69.3  0.188  1.294  0.005 1122.  196.     -8.6 0.1620 0.32 0.16 1.50 326.0 15.0 290.5 2.0 0 0.00 24. 1004.  2 NAD-SFC NoSubs
 9  4  4  94 17   36.9  0.232  1.061  0.005 1160.  269.    -30.5 0.1880 0.32 0.21 2.10 344.0 15.0 290.4 2.0 0 0.00 25. 1004.  2 NAD-SFC NoSubs
 9  4  4  94 18    1.7  0.197  0.378  0.005 1159.  211.   -413.8 0.1880 0.32 0.37 2.10 336.0 15.0 289.8 2.0 0 0.00 32. 1005.  2 NAD-SFC NoSubs
 9  4  4  94 19  -13.6  0.176 -9.000 -9.000 -999.  178.     36.0 0.1880 0.32 1.00 2.10 336.0 15.0 288.6 2.0 0 0.00 36. 1005.  2 NAD-SFC NoSubs
 9  4  4  94 20   -1.5  0.080 -9.000 -9.000 -999.   59.     31.3 0.1880 0.32 1.00 0.50 355.0 15.0 287.2 2.0 0 0.00 41. 1005.  2 NAD-SFC NoSubs
 9  4  4  94 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0879 0.32 1.00 0.00   0.0 15.0 285.8 2.0 0 0.00 48. 1006.  2 NAD-SFC NoSubs
 9  4  4  94 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0879 0.32 1.00 0.00   0.0 15.0 284.4 2.0 0 0.00 54. 1006.  2 NAD-SFC NoSubs
 9  4  4  94 23   -1.2  0.073 -9.000 -9.000 -999.   47.     29.1 0.0760 0.32 1.00 0.50  80.0 15.0 283.2 2.0 0 0.00 59. 1006.  2 NAD-SFC NoSubs
 9  4  4  94 24   -2.6  0.081 -9.000 -9.000 -999.   55.     18.4 0.0510 0.32 1.00 1.00 104.0 15.0 282.6 2.0 0 0.00 62. 1007.  2 NAD-SFC NoSubs
 9  4  5  95  1   -2.4  0.078 -9.000 -9.000 -999.   53.     17.8 0.0380 0.32 1.00 1.00 155.0 15.0 282.2 2.0 0 0.00 60. 1007.  2 NAD-SFC NoSubs
 9  4  5  95  2   -2.4  0.077 -9.000 -9.000 -999.   52.     17.6 0.0340 0.32 1.00 1.00 221.0 15.0 282.2 2.0 0 0.00 58. 1007.  2 NAD-SFC NoSubs
 9  4  5  95  3   -1.0  0.067 -9.000 -9.000 -999.   42.     26.9 0.0310 0.32 1.00 0.50 252.0 15.0 282.0 2.0 0 0.00 55. 1008.  2 NAD-SFC NoSubs
 9  4  5  95  4   -3.6  0.096 -9.000 -9.000 -999.   71.     22.0 0.1900 0.32 1.00 1.00   4.0 15.0 281.6 2.0 0 0.00 56. 1008.  2 NAD-SFC NoSubs
 9  4  5  95  5   -7.0  0.125 -9.000 -9.000 -999.  106.     25.0 0.1900 0.32 1.00 1.50   1.0 15.0 280.9 2.0 0 0.00 59. 1008.  2 NAD-SFC NoSubs
 9  4  5  95  6  -13.8  0.176 -9.000 -9.000 -999.  177.     35.4 0.1880 0.32 1.00 2.10 359.0 15.0 280.2 2.0 0 0.00 64. 1009.  2 NAD-SFC NoSubs
 9  4  5  95  7    0.1  0.138  0.021  0.008    3.  124. -1935.9 0.1900 0.32 0.37 1.50  15.0 15.0 280.1 2.0 0 0.00 67. 1009.  2 NAD-SFC NoSubs
 9  4  5  95  8   35.6  0.089  0.428  0.009   79.   64.     -1.8 0.1880 0.32 0.21 0.50 330.0 15.0 283.8 2.0 0 0.00 52. 1009.  2 NAD-SFC NoSubs
 9  4  5  95  9   68.6  0.144  0.755  0.007  226.  132.     -3.9 0.1620 0.32 0.16 1.00 328.0 15.0 287.0 2.0 0 0.00 39. 1009.  2 NAD-SFC NoSubs
 9  4  5  95 10   94.9  0.155  0.996  0.006  375.  146.     -3.5 0.1900 0.32 0.15 1.00  14.0 15.0 290.2 2.0 0 0.00 29. 1009.  2 NAD-SFC NoSubs
 9  4  5  95 11  113.3  0.190  1.196  0.005  543.  199.     -5.4 0.1280 0.32 0.14 1.50  45.0 15.0 293.2 2.0 0 0.00 22. 1008.  2 NAD-SFC NoSubs
 9  4  5  95 12  122.9  0.204  1.334  0.005  695.  222.     -6.2 0.0510 0.32 0.14 2.10  92.0 15.0 295.8 2.0 0 0.00 18. 1007.  2 NAD-SFC NoSubs
 9  4  5  95 13  123.4  0.395  1.428  0.005  847.  597.    -44.9 0.0460 0.32 0.14 5.10 123.0 15.0 297.4 2.0 0 0.00 16. 1006.  2 NAD-SFC NoSubs
 9  4  5  95 14  114.8  0.561  1.455  0.005  965. 1009.   -138.3 0.0460 0.32 0.14 7.70 135.0 15.0 297.9 2.0 0 0.00 17. 1006.  2 NAD-SFC NoSubs
 9  4  5  95 15   97.1  0.591  1.435  0.005 1093. 1089.   -190.3 0.0460 0.32 0.15 8.20 136.0 15.0 297.6 2.0 0 0.00 21. 1005.  2 NAD-SFC NoSubs
 9  4  5  95 16   71.2  0.410  1.327  0.005 1177.  661.    -86.8 0.0380 0.32 0.16 5.70 150.0 15.0 296.6 2.0 0 0.00 32. 1005.  2 NAD-SFC NoSubs
 9  4  5  95 17   38.5  0.363  1.094  0.005 1218.  527.   -111.0 0.0380 0.32 0.21 5.10 152.0 15.0 295.5 2.0 0 0.00 38. 1005.  2 NAD-SFC NoSubs
 9  4  5  95 18    2.9  0.396  0.464  0.005 1214.  598. -1889.9 0.0460 0.32 0.37 5.70 139.0 15.0 293.8 2.0 0 0.00 40. 1006.  2 NAD-SFC NoSubs
 9  4  5  95 19  -40.1  0.376 -9.000 -9.000 -999.  553.    119.0 0.0460 0.32 1.00 5.70 132.0 15.0 291.4 2.0 0 0.00 41. 1007.  2 NAD-SFC NoSubs
 9  4  5  95 20  -32.2  0.301 -9.000 -9.000 -999.  399.     75.7 0.0460 0.32 1.00 4.60 134.0 15.0 289.8 2.0 0 0.00 43. 1007.  2 NAD-SFC NoSubs
 9  4  5  95 21  -27.7  0.258 -9.000 -9.000 -999.  315.     55.4 0.0380 0.32 1.00 4.10 164.0 15.0 288.6 2.0 0 0.00 44. 1007.  2 NAD-SFC NoSubs
 9  4  5  95 22  -27.8  0.258 -9.000 -9.000 -999.  314.     55.2 0.0380 0.32 1.00 4.10 169.0 15.0 287.8 2.0 0 0.00 45. 1007.  2 NAD-SFC NoSubs
 9  4  5  95 23  -27.2  0.251 -9.000 -9.000 -999.  303.     52.5 0.0330 0.32 1.00 4.10 181.0 15.0 287.2 2.0 0 0.00 44. 1007.  2 NAD-SFC NoSubs
 9  4  5  95 24  -30.7  0.284 -9.000 -9.000 -999.  362.     66.7 0.0330 0.32 1.00 4.60 184.0 15.0 287.1 2.0 0 0.00 43. 1007.  2 NAD-SFC NoSubs
 9  4  6  96  1  -27.2  0.251 -9.000 -9.000 -999.  303.     52.4 0.0330 0.32 1.00 4.10 186.0 15.0 287.0 2.0 0 0.00 42. 1007.  2 NAD-SFC NoSubs
 9  4  6  96  2  -17.5  0.187 -9.000 -9.000 -999.  195.     33.4 0.0330 0.32 1.00 3.10 202.0 15.0 286.9 2.0 0 0.00 42. 1007.  2 NAD-SFC NoSubs
 9  4  6  96  3   -4.2  0.092 -9.000 -9.000 -999.   71.     16.6 0.0330 0.32 1.00 1.50 191.0 15.0 286.9 2.0 0 0.00 41. 1008.  2 NAD-SFC NoSubs
 9  4  6  96  4   -1.4  0.079 -9.000 -9.000 -999.   53.     31.0 0.1620 0.32 1.00 0.50 324.0 15.0 285.8 2.0 0 0.00 46. 1008.  2 NAD-SFC NoSubs
 9  4  6  96  5   -6.0  0.115 -9.000 -9.000 -999.   93.     22.5 0.1280 0.32 1.00 1.50  41.0 15.0 285.2 2.0 0 0.00 50. 1008.  2 NAD-SFC NoSubs
 9  4  6  96  6   -6.0  0.115 -9.000 -9.000 -999.   93.     22.4 0.1280 0.32 1.00 1.50  47.0 15.0 284.4 2.0 0 0.00 54. 1009.  2 NAD-SFC NoSubs
 9  4  6  96  7    1.3  0.181  0.074  0.008   11.  185.   -396.8 0.1280 0.32 0.37 2.10  55.0 15.0 284.1 2.0 0 0.00 57. 1009.  2 NAD-SFC NoSubs
 9  4  6  96  8   37.0  0.169  0.434  0.008   80.  166.    -11.7 0.1280 0.32 0.21 1.50  41.0 15.0 287.1 2.0 0 0.00 48. 1009.  2 NAD-SFC NoSubs
 9  4  6  96  9   70.0  0.195  0.776  0.007  240.  206.     -9.5 0.1900 0.32 0.16 1.50   8.0 15.0 290.2 2.0 0 0.00 37. 1008.  2 NAD-SFC NoSubs
 9  4  6  96 10   96.2 -9.000 -9.000 -9.000  384. -999. -99999.0 0.0879 0.32 0.15 0.00   0.0 15.0 292.9 2.0 0 0.00 32. 1008.  2 NAD-SFC NoSubs
 9  4  6  96 11  114.4  0.206  1.200  0.005  543.  224.     -6.8 0.1900 0.32 0.14 1.50   5.0 15.0 295.2 2.0 0 0.00 27. 1007.  2 NAD-SFC NoSubs
 9  4  6  96 12  123.8  0.160  1.331  0.005  684.  154.     -3.0 0.1880 0.32 0.14 1.00 344.0 15.0 297.1 2.0 0 0.00 23. 1006.  2 NAD-SFC NoSubs
 9  4  6  96 13  124.3  0.155  1.424  0.005  834.  147.     -2.7 0.1620 0.32 0.14 1.00 328.0 15.0 298.5 2.0 0 0.00 20. 1005.  2 NAD-SFC NoSubs
 9  4  6  96 14  115.7  0.087  1.454  0.005  952.   63.     -1.0 0.0780 0.32 0.14 0.50 294.0 15.0 299.5 2.0 0 0.00 18. 1005.  2 NAD-SFC NoSubs
 9  4  6  96 15   98.4  0.115  1.459  0.005 1131.   94.     -1.4 0.0380 0.32 0.15 1.00 174.0 15.0 300.2 2.0 0 0.00 16. 1004.  2 NAD-SFC NoSubs
 9  4  6  96 16   72.7  0.249  1.367  0.005 1259.  298.    -19.0 0.0380 0.32 0.16 3.10 152.0 15.0 300.2 2.0 0 0.00 20. 1004.  2 NAD-SFC NoSubs
 9  4  6  96 17   40.0  0.214  1.139  0.005 1321.  238.    -21.9 0.0460 0.32 0.21 2.60 129.0 15.0 299.2 2.0 0 0.00 31. 1003.  2 NAD-SFC NoSubs
 9  4  6  96 18    4.4  0.279  0.544  0.005 1318.  353.   -443.4 0.0760 0.32 0.37 3.60  89.0 15.0 297.5 2.0 0 0.00 36. 1004.  2 NAD-SFC NoSubs
 9  4  6  96 19  -24.9  0.237 -9.000 -9.000 -999.  277.     47.9 0.0510 0.32 1.00 3.60  94.0 15.0 295.2 2.0 0 0.00 41. 1004.  2 NAD-SFC NoSubs
 9  4  6  96 20  -29.7  0.281 -9.000 -9.000 -999.  357.     66.8 0.0310 0.32 1.00 4.60 268.0 15.0 293.1 2.0 0 0.00 46. 1004.  2 NAD-SFC NoSubs
 9  4  6  96 21  -48.4  0.453 -9.000 -9.000 -999.  733.    172.4 0.0780 0.32 1.00 6.20 290.0 15.0 290.2 2.0 0 0.00 61. 1005.  2 NAD-SFC NoSubs
 9  4  6  96 22  -37.2  0.346 -9.000 -9.000 -999.  497.     99.9 0.1620 0.32 1.00 4.10 302.0 15.0 288.5 2.0 0 0.00 69. 1005.  2 NAD-SFC NoSubs
 9  4  6  96 23  -37.4  0.346 -9.000 -9.000 -999.  489.     99.4 0.1620 0.32 1.00 4.10 303.0 15.0 287.0 2.0 0 0.00 77. 1005.  2 NAD-SFC NoSubs
 9  4  6  96 24  -32.7  0.302 -9.000 -9.000 -999.  400.     75.6 0.1620 0.32 1.00 3.60 306.0 15.0 286.4 2.0 0 0.00 78. 1005.  2 NAD-SFC NoSubs
 9  4  7  97  1  -34.0  0.314 -9.000 -9.000 -999.  421.     81.3 0.1880 0.32 1.00 3.60 343.0 15.0 286.1 2.0 0 0.00 77. 1005.  2 NAD-SFC NoSubs
 9  4  7  97  2  -39.1  0.360 -9.000 -9.000 -999.  518.    107.0 0.1900 0.32 1.00 4.10  13.0 15.0 285.6 2.0 0 0.00 78. 1005.  2 NAD-SFC NoSubs
 9  4  7  97  3  -39.1  0.360 -9.000 -9.000 -999.  519.    106.8 0.1900 0.32 1.00 4.10  13.0 15.0 285.1 2.0 0 0.00 80. 1005.  2 NAD-SFC NoSubs
 9  4  7  97  4  -39.2  0.360 -9.000 -9.000 -999.  518.    106.7 0.1900 0.32 1.00 4.10  14.0 15.0 284.8 2.0 0 0.00 81. 1005.  2 NAD-SFC NoSubs
 9  4  7  97  5  -39.3  0.360 -9.000 -9.000 -999.  518.    106.5 0.1900 0.32 1.00 4.10   7.0 15.0 284.2 2.0 0 0.00 83. 1005.  2 NAD-SFC NoSubs
 9  4  7  97  6  -34.3  0.314 -9.000 -9.000 -999.  424.     81.0 0.1900 0.32 1.00 3.60  10.0 15.0 283.8 2.0 0 0.00 84. 1005.  2 NAD-SFC NoSubs
 9  4  7  97  7    2.1 -9.000 -9.000 -9.000   22. -999. -99999.0 0.0879 0.32 0.36 0.00   0.0 15.0 284.4 2.0 0 0.00 80. 1006.  2 NAD-SFC NoSubs
 9  4  7  97  8   37.7  0.182  0.492  0.009  113.  187.    -14.4 0.1880 0.32 0.21 1.50 354.0 15.0 286.8 2.0 0 0.00 64. 1006.  2 NAD-SFC NoSubs
 9  4  7  97  9   70.5  0.090  0.762  0.008  225.   69.     -1.0 0.1280 0.32 0.16 0.50  38.0 15.0 289.2 2.0 0 0.00 55. 1006.  2 NAD-SFC NoSubs
 9  4  7  97 10   96.6  0.085  0.966  0.007  334.   59.     -1.0 0.0760 0.32 0.15 0.50  88.0 15.0 291.6 2.0 0 0.00 44. 1006.  2 NAD-SFC NoSubs
 9  4  7  97 11  114.6 -9.000 -9.000 -9.000  472. -999. -99999.0 0.0879 0.32 0.14 0.00   0.0 15.0 293.4 2.0 0 0.00 36. 1006.  3 NAD-SFC NoSubs
 9  4  7  97 12  123.6 -9.000 -9.000 -9.000  629. -999. -99999.0 0.0879 0.32 0.14 0.00   0.0 15.0 294.8 2.0 0 0.00 33. 1005.  3 NAD-SFC NoSubs
 9  4  7  97 13  123.9  0.255  1.380  0.005  761.  309.    -11.9 0.0340 0.32 0.14 3.10 236.0 15.0 295.8 2.0 0 0.00 32. 1004.  3 NAD-SFC NoSubs
 9  4  7  97 14  114.9  0.412  1.405  0.005  864.  635.    -54.6 0.0340 0.32 0.14 5.70 237.0 15.0 295.0 2.0 0 0.00 37. 1004.  3 NAD-SFC NoSubs
 9  4  7  97 15   97.5  0.494  1.370  0.005  945.  833.   -110.7 0.0310 0.32 0.15 7.20 241.0 15.0 294.9 2.0 0 0.00 37. 1003.  3 NAD-SFC NoSubs
 9  4  7  97 16   71.9  0.589  1.265  0.005 1008. 1085.   -254.7 0.0340 0.32 0.16 8.70 236.0 15.0 294.2 2.0 0 0.00 40. 1003.  3 NAD-SFC NoSubs
 9  4  7  97 17   39.4  0.480  1.048  0.005 1044.  811.   -251.5 0.0310 0.32 0.21 7.20 249.0 15.0 292.6 2.0 0 0.00 54. 1003.  3 NAD-SFC NoSubs
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9	4	7	97	18	4.0	0.404	0.490	0.005	1039.	621.	-1455.4	0.0310	0.32	0.36	6.20	253.0	15.0	290.2	2.0	0	0.00	65.	1004.	3	NAD-SFC NoSubs
9	4	7	97	19	-36.8	0.351	-9.000	-9.000	-999.	501.	105.4	0.0310	0.32	1.00	5.70	250.0	15.0	288.2	2.0	0	0.00	71.	1005.	3	NAD-SFC NoSubs
9	4	7	97	20	-23.4	0.217	-9.000	-9.000	-999.	254.	39.0	0.0310	0.32	1.00	3.60	254.0	15.0	287.4	2.0	0	0.00	72.	1006.	2	NAD-SFC NoSubs
9	4	7	97	21	-1.0	0.067	-9.000	-9.000	-999.	73.	26.7	0.0310	0.32	1.00	0.50	248.0	15.0	287.0	2.0	0	0.00	72.	1006.	2	NAD-SFC NoSubs
9	4	7	97	22	-3.1	0.090	-9.000	-9.000	-999.	65.	20.7	0.1280	0.32	1.00	1.00	33.0	15.0	286.5	2.0	0	0.00	73.	1007.	2	NAD-SFC NoSubs
9	4	7	97	23	-6.8	0.125	-9.000	-9.000	-999.	106.	25.5	0.1900	0.32	1.00	1.50	22.0	15.0	285.9	2.0	0	0.00	75.	1007.	3	NAD-SFC NoSubs
9	4	7	97	24	-3.4	0.094	-9.000	-9.000	-999.	69.	21.9	0.1900	0.32	1.00	1.00	15.0	15.0	285.2	2.0	0	0.00	77.	1007.	4	NAD-SFC NoSubs
9	4	8	98	1	-0.9	0.064	-9.000	-9.000	-999.	39.	25.9	0.0340	0.32	1.00	0.50	239.0	15.0	285.1	2.0	0	0.51	78.	1007.	5	NAD-SFC NoSubs
9	4	8	98	2	-7.6	0.124	-9.000	-9.000	-999.	104.	22.2	0.0340	0.32	1.00	2.10	219.0	15.0	284.9	2.0	0	0.51	79.	1007.	4	NAD-SFC NoSubs
9	4	8	98	3	-22.5	0.219	-9.000	-9.000	-999.	247.	42.1	0.0330	0.32	1.00	3.60	208.0	15.0	284.2	2.0	0	0.00	83.	1007.	4	NAD-SFC NoSubs
9	4	8	98	4	-17.5	0.188	-9.000	-9.000	-999.	195.	33.9	0.0340	0.32	1.00	3.10	216.0	15.0	283.4	2.0	0	0.00	86.	1008.	3	NAD-SFC NoSubs
9	4	8	98	5	-11.9	0.153	-9.000	-9.000	-999.	143.	26.9	0.0310	0.32	1.00	2.60	249.0	15.0	282.9	2.0	0	0.00	87.	1008.	3	NAD-SFC NoSubs
9	4	8	98	6	-11.9	0.153	-9.000	-9.000	-999.	143.	26.9	0.0310	0.32	1.00	2.60	268.0	15.0	282.6	2.0	0	0.00	88.	1009.	3	NAD-SFC NoSubs
9	4	8	98	7	3.8	0.242	0.172	0.005	48.	287.	-340.5	0.0780	0.32	0.36	3.10	280.0	15.0	283.4	2.0	0	0.00	82.	1009.	3	NAD-SFC NoSubs
9	4	8	98	8	39.0	0.373	0.640	0.005	242.	548.	-120.3	0.0780	0.32	0.20	4.60	287.0	15.0	285.4	2.0	0	0.00	62.	1010.	3	NAD-SFC NoSubs
9	4	8	98	9	70.6	0.384	0.978	0.005	478.	571.	-72.3	0.0780	0.32	0.16	4.60	294.0	15.0	286.6	2.0	0	0.00	52.	1010.	4	NAD-SFC NoSubs
9	4	8	98	10	95.5	0.367	1.282	0.005	795.	534.	-46.6	0.1620	0.32	0.15	3.60	301.0	15.0	287.6	2.0	0	0.00	46.	1009.	4	NAD-SFC NoSubs
9	4	8	98	11	112.7	0.291	1.480	0.005	1036.	379.	-19.6	0.1620	0.32	0.14	2.60	310.0	15.0	288.5	2.0	0	0.00	42.	1009.	4	NAD-SFC NoSubs
9	4	8	98	12	123.0	0.252	1.600	0.005	1198.	305.	-11.7	0.1620	0.32	0.14	2.10	323.0	15.0	289.4	2.0	0	0.00	39.	1008.	3	NAD-SFC NoSubs
9	4	8	98	13	123.1	0.260	1.661	0.005	1341.	317.	-12.8	0.1880	0.32	0.14	2.10	342.0	15.0	290.1	2.0	0	0.00	37.	1008.	3	NAD-SFC NoSubs
9	4	8	98	14	114.4	0.258	1.694	0.005	1529.	314.	-13.5	0.1880	0.32	0.14	2.10	352.0	15.0	290.8	2.0	0	0.00	35.	1007.	3	NAD-SFC NoSubs
9	4	8	98	15	97.1	0.254	1.652	0.005	1671.	307.	-15.1	0.1880	0.32	0.15	2.10	357.0	15.0	291.2	2.0	0	0.00	34.	1007.	3	NAD-SFC NoSubs
9	4	8	98	16	71.7	0.288	1.522	0.005	1766.	371.	-29.9	0.1880	0.32	0.16	2.60	347.0	15.0	291.2	2.0	0	0.00	35.	1006.	3	NAD-SFC NoSubs
9	4	8	98	17	39.6	0.275	1.255	0.005	1794.	347.	-47.2	0.1880	0.32	0.21	2.60	354.0	15.0	291.2	2.0	0	0.00	36.	1006.	3	NAD-SFC NoSubs
9	4	8	98	18	4.6	0.204	0.612	0.005	1796.	223.	-166.2	0.1880	0.32	0.36	2.10	347.0	15.0	290.8	2.0	0	0.00	43.	1006.	3	NAD-SFC NoSubs
9	4	8	98	19	-12.6	0.170	-9.000	-9.000	-999.	168.	34.8	0.1620	0.32	1.00	2.10	322.0	15.0	290.0	2.0	0	0.00	45.	1007.	3	NAD-SFC NoSubs
9	4	8	98	20	-31.0	0.295	-9.000	-9.000	-999.	384.	74.3	0.0780	0.32	1.00	4.10	280.0	15.0	288.2	2.0	0	0.00	57.	1007.	3	NAD-SFC NoSubs
9	4	8	98	21	-28.7	0.281	-9.000	-9.000	-999.	358.	69.5	0.0310	0.32	1.00	4.60	268.0	15.0	286.0	2.0	0	0.00	76.	1008.	4	NAD-SFC NoSubs
9	4	8	98	22	-22.2	0.217	-9.000	-9.000	-999.	244.	41.4	0.0310	0.32	1.00	3.60	269.0	15.0	285.0	2.0	0	0.00	82.	1008.	4	NAD-SFC NoSubs
9	4	8	98	23	-7.5	0.122	-9.000	-9.000	-999.	106.	21.6	0.0310	0.32	1.00	2.10	257.0	15.0	284.2	2.0	0	0.00	85.	1009.	4	NAD-SFC NoSubs
9	4	8	98	24	-2.1	0.073	-9.000	-9.000	-999.	48.	17.0	0.0310	0.32	1.00	1.00	258.0	15.0	283.8	2.0	0	0.00	87.	1008.	5	NAD-SFC NoSubs
9	4	9	99	1	-3.5	0.088	-9.000	-9.000	-999.	63.	17.5	0.0310	0.32	1.00	1.50	258.0	15.0	283.2	2.0	0	0.00	88.	1008.	7	NAD-SFC NoSubs
9	4	9	99	2	-13.9	0.183	-9.000	-9.000	-999.	188.	39.8	0.0780	0.32	1.00	2.60	273.0	15.0	282.8	2.0	0	0.00	89.	1008.	7	NAD-SFC NoSubs
9	4	9	99	3	-9.2	0.145	-9.000	-9.000	-999.	132.	29.6	0.0780	0.32	1.00	2.10	274.0	15.0	282.8	2.0	0	0.00	89.	1008.	6	NAD-SFC NoSubs
9	4	9	99	4	-0.9	0.062	-9.000	-9.000	-999.	41.	25.2	0.0310	0.32	1.00	0.50	261.0	15.0	282.8	2.0	0	0.00	88.	1008.	6	NAD-SFC NoSubs
9	4	9	99	5	-0.9	0.063	-9.000	-9.000	-999.	38.	25.3	0.0330	0.32	1.00	0.50	198.0	15.0	282.8	2.0	0	0.00	88.	1007.	6	NAD-SFC NoSubs
9	4	9	99	6	2.2	-9.000	-9.000	-9.000	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	283.0	2.0	0	0.00	86.	1008.	7	NAD-SFC NoSubs
9	4	9	99	7	5.2	-9.000	-9.000	-9.000	99.	-999.	-99999.0	0.0879	0.32	0.35	0.00	0.0	15.0	283.2	2.0	0	0.00	85.	1008.	7	NAD-SFC NoSubs
9	4	9	99	8	38.7	0.075	0.652	0.005	257.	50.	-1.0	0.0780	0.32	0.20	0.50	285.0	15.0	283.6	2.0	0	0.00	82.	1008.	5	NAD-SFC NoSubs
9	4	9	99	9	70.9	0.070	0.951	0.005	436.	45.	-1.0	0.0340	0.32	0.16	0.50	222.0	15.0	284.1	2.0	0	0.00	79.	1008.	4	NAD-SFC NoSubs
9	4	9	99	10	96.9	0.073	1.191	0.005	627.	47.	-1.0	0.0330	0.32	0.15	0.50	187.0	15.0	284.9	2.0	0	0.00	75.	1008.	3	NAD-SFC NoSubs
9	4	9	99	11	114.3	-9.000	-9.000	-9.000	755.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	285.8	2.0	0	0.00	72.	1007.	3	NAD-SFC NoSubs
9	4	9	99	12	123.1	-9.000	-9.000	-9.000	865.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	286.8	2.0	0	0.00	67.	1006.	3	NAD-SFC NoSubs
9	4	9	99	13	123.1	-9.000	-9.000	-9.000	962.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	287.2	2.0	0	0.00	62.	1005.	3	NAD-SFC NoSubs
9	4	9	99	14	112.7	-9.000	-9.000	-9.000	1072.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	287.2	2.0	0	0.00	61.	1005.	4	NAD-SFC NoSubs
9	4	9	99	15	95.6	-9.000	-9.000	-9.000	1159.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	287.0	2.0	0	0.25	63.	1004.	4	NAD-SFC NoSubs
9	4	9	99	16	68.6	-9.000	-9.000	-9.000	1218.	-999.	-99999.0	0.0879	0.32	0.16	0.00	0.0	15.0	286.8	2.0	0	0.25	66.	1003.	5	NAD-SFC NoSubs
9	4	9	99	17	38.4	0.154	1.102	0.006	1248.	145.	-8.5	0.0760	0.32	0.20	1.50	88.0	15.0	286.2	2.0	0	0.25	71.	1003.	5	NAD-SFC NoSubs
9	4	9	99	18	5.4	0.161	0.575	0.006	1252.	156.	-69.5	0.0510	0.32	0.36	2.10	97.0	15.0	285.9	2.0	0	0.00	77.	1003.	5	NAD-SFC NoSubs
9	4	9	99	19	-8.3	0.133	-9.000	-9.000	-999.	116.	25.4	0.0510	0.32	1.00	2.10	115.0	15.0	285.5	2.0	0	0.25	82.	1002.	5	NAD-SFC NoSubs
9	4	9	99	20	-7.8	0.131	-9.000	-9.000	-999.	114.	25.6	0.0460	0.32	1.00	2.10	131.0	15.0	285.2	2.0	0	0.25	86.	1002.	6	NAD-SFC NoSubs
9	4	9	99	21	-5.9	0.129	-9.000	-9.000	-999.	111.	32.4	0.0380	0.32	1.00	2.10	155.0	15.0	284.9	2.0	0	0.25	90.	1002.	10	NAD-SFC NoSubs
9	4	9	99	22	-7.4	0.126	-9.000	-9.000	-999.	108.	24.3	0.0380	0.32	1.00	2.10	166.0	15.0	284.6	2.0	0	0.51	92.	1002.	6	NAD-SFC NoSubs
9	4	9	99	23	-7.4	0.126	-9.000	-9.000	-999.	108.	24.3	0.0380	0.32	1.00	2.10	156.0	15.0	284.4	2.0	0	1.27	94.	1002.	6	NAD-SFC NoSubs
9	4	9	99	24	-7.4	0.126	-9.000	-9.000	-999.	108.	24.3	0.0380	0.32	1.00	2.10	150.0	15.0	284.2	2.0	0	1.78	96.	1001.	6	NAD-SFC NoSubs
9	4	10	100	1	-7.1	0.127	-9.000	-9.000	-999.	108.	25.4	0.0380	0.32	1.00	2.10	150.0	15.0	284.1	2.0	0	2.29	97.	1001.	7	NAD-SFC NoSubs
9	4	10	100	2	-5.9	0.129	-9.000	-9.000	-999.	111.	32.4	0.0380	0.32	1.00	2.10	164.0	15.0	284.1	2.0	0	2.54	97.	1000.	10	NAD-SFC NoSubs
9	4	10	100	3	-7.1	0.127	-9.000	-9.000	-999.	108.	25.4	0.0380	0.32	1.00	2.10	158.0	15.0	284.1	2.0	0	2.29	98.	1000.	7	NAD-SFC NoSubs
9	4	10	100	4	-5.9	0.129	-9.000	-9.000	-999.	111.	32.4	0.0380	0.32	1.00	2.10	158.0	15.0	284.1	2.0	0	2.29	97.	1000.	10	NAD-SFC NoSubs
9	4	10	100	5	-7.1	0.127	-9.000	-9.000	-999.	108.	25.4	0.0380	0.32	1.00	2.10	164.0	15.0	284.1	2.0	0	1.78	97.	1000.	7	NAD-SFC NoSubs
9	4	10	100	6	-7.6	0.126	-9.000	-9.000	-999.	107.	23.4	0.0380	0.32	1.00	2.10	168.0	15.0	284.2	2.0	0	1.27	96.	1000.	5	NAD-SFC NoSubs
9	4	10	100	7	6.1	0.118	0.286	0.005	136.	97.	-23.9	0.0380	0.32	0.34	1.50	174.0	15.0	284.2	2.0	0	0.51	95.	1001.	4	NAD-SFC NoSubs
9	4	10	100	8	39.6	0.133	0.707	0.005	318.	117.	-5.3	0.0310	0.32	0.20	1.50	246.0	15.0	284.8	2.0	0	0.25	88.	1001.	5	NAD-SFC NoSubs
9	4	10	100	9	69.7	0.208	1.016	0.005	538.	228.	-11.5	0.0780	0.32	0.16	2.10	294.0	15.0	285.6	2.0	0	0.00	82.	1001.	5	NAD-SFC NoSubs
9	4	10	100	10	93.5	0.250	1.233	0.005	716.	300.	-14.9	0.0780	0.32	0.15	2.60	296.0	15.0	286.5	2.0	0	0.00	76.	1001.	5	NAD-SFC NoSubs
9	4	10	100	11	92.4	0.326	1.288	0.005	826.	448.	-33.6	0.1620	0.32	0.14	3.10	312.0	15.0	287.2	2.0	0	0.00	71.	1001.	7	NAD-SFC NoSubs
9	4	10	100	12	99.3	0.328	1.373	0.005	932.	452.	-31.8	0.1620	0.32	0.14	3.10	304.0	15.0	288.2	2.0	0	0.00	65.	1000.	7	NAD-SFC NoSubs
9	4	10	100	13	29.7	0.343	0.929	0.005	962.	482.	-121.1	0.1620	0.32	0.14	3.60	301.0	15.0	289.2	2.0	0	0.00	58.	1000.	10	NAD-SFC NoSubs
9	4	10	100	14	27.5	0.424	0.916	0.005	994.	663.	-246.9	0.1620	0.32	0.14	4.60	323.0	15.0	289.8	2.0	0	0.00	56.	999.	10	NAD-SFC NoSubs
9	4	10	100	15	78.8	0.499	1.338	0.005	1084.	846.	-140.7	0.1880	0.32	0.15	5.10	338.0	15.0	290.1	2.0	0	0.00	54.	999.	7	NAD-SFC NoSubs
9	4	10	100	16	71.8	0.413	1.328	0.005	1161.	643.	-87.3	0.1880	0.32	0.16	4.10	348.0	15.0	290.5	2.0	0	0.00	47.	998.	4	NAD-SFC NoSubs
9	4	10	100	17	40.4	0.444	1.109	0.005	1201.	709.	-192.2	0.1880	0.32	0.20	4.60	358.0	15.0	290.4	2.0	0	0.00	48.	998.	4	NAD-SFC NoSubs
9	4	10	100	18	6.1	0.230	0.591	0.005	1206.	308.	-178.6	0.1280	0.32	0.35	2.60	31.0	15.0	290.1	2.0	0	0.00	56.	999.	4	NAD-SFC NoSubs
9	4	10	100	19	-6.2	0.120	-9.000	-9.000	-999.	112.	24.8	0.1620	0.32	1.00	1.50	312.0	15.0	288.8	2.0	0	0.51	62.	1000.	4	NAD-SFC NoSubs
9	4	10	100	20	-9.8	0.144	-9.000	-9.000	-999.	131.	27.4	0.0780	0.32	1.00	2.10	284.0	15.0	287.8	2.0	0	0.51	67.	1001.	3	NAD-SFC NoSubs
9	4	10	100	21	-12.6	0.170	-9.000	-9.000	-999.	168.	34.6	0.1620	0.32	1.00	2.10	309.0	15.0	287.4	2.0	0	0.25	67.	1001.	3	NAD-SFC NoSubs
9	4	10	100	22	-36.4	0.346	-9.000	-9.000	-999.	489.	101.8	0.1620	0.32	1.00	4.10	313.0	15.0	286.2	2.0	0	0.00	71.	1002.	3	NAD-SFC NoSubs

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 9  4 10 100 23  -36.7  0.346 -9.000 -9.000 -999.  489.    101.2  0.1620  0.32  1.00  4.10  312.0  15.0  284.6  2.0   0  0.00  76.  1003.   3 NAD-SFC NoSubs
 9  4 10 100 24  -27.3  0.257 -9.000 -9.000 -999.  317.     55.6  0.0780  0.32  1.00  3.60  296.0  15.0  283.5  2.0   0  0.00  78.  1003.   3 NAD-SFC NoSubs
 9  4 11 101  1  -22.2  0.219 -9.000 -9.000 -999.  247.     42.6  0.0780  0.32  1.00  3.10  296.0  15.0  282.8  2.0   0  0.00  79.  1004.   3 NAD-SFC NoSubs
 9  4 11 101  2  -22.2  0.219 -9.000 -9.000 -999.  247.     42.6  0.0780  0.32  1.00  3.10  290.0  15.0  282.4  2.0   0  0.00  79.  1004.   3 NAD-SFC NoSubs
 9  4 11 101  3   -9.7  0.144 -9.000 -9.000 -999.  133.     27.6  0.0780  0.32  1.00  2.10  290.0  15.0  282.0  2.0   0  0.00  80.  1005.   4 NAD-SFC NoSubs
 9  4 11 101  4   -2.7  0.083 -9.000 -9.000 -999.   58.     19.2  0.0780  0.32  1.00  1.00  276.0  15.0  281.8  2.0   0  0.00  81.  1005.   4 NAD-SFC NoSubs
 9  4 11 101  5   -1.0  0.066 -9.000 -9.000 -999.   40.     26.3  0.0310  0.32  1.00  0.50  254.0  15.0  281.4  2.0   0  0.00  82.  1006.   4 NAD-SFC NoSubs
 9  4 11 101  6   -2.2  0.076 -9.000 -9.000 -999.   50.     17.4  0.0340  0.32  1.00  1.00  230.0  15.0  281.1  2.0   0  0.00  83.  1007.   4 NAD-SFC NoSubs
 9  4 11 101  7    6.5  0.133  0.226  0.005   63.  117.    -32.4  0.0780  0.32  0.34  1.50  275.0  15.0  281.8  2.0   0  0.00  79.  1008.   4 NAD-SFC NoSubs
 9  4 11 101  8   41.1  0.179  0.766  0.005  392.  181.    -12.5  0.1620  0.32  0.20  1.50  320.0  15.0  283.1  2.0   0  0.00  74.  1008.   4 NAD-SFC NoSubs
 9  4 11 101  9   72.3 -9.000 -9.000 -9.000  499. -999. -99999.0  0.0879  0.32  0.16  0.00    0.0  15.0  284.0  2.0   0  0.00  71.  1009.   4 NAD-SFC NoSubs
 9  4 11 101 10   98.2 -9.000 -9.000 -9.000  616. -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0  285.2  2.0   0  0.00  65.  1009.   3 NAD-SFC NoSubs
 9  4 11 101 11  114.0 -9.000 -9.000 -9.000  762. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  286.2  2.0   0  0.00  61.  1009.   4 NAD-SFC NoSubs
 9  4 11 101 12  122.6 -9.000 -9.000 -9.000  911. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  287.6  2.0   0  0.00  55.  1008.   4 NAD-SFC NoSubs
 9  4 11 101 13  122.7 -9.000 -9.000 -9.000 1033. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  289.0  2.0   0  0.00  49.  1008.   4 NAD-SFC NoSubs
 9  4 11 101 14  115.7  0.154  1.539  0.005 1132.  145.     -2.8  0.1620  0.32  0.14  1.00  324.0  15.0  290.2  2.0   0  0.00  43.  1007.   3 NAD-SFC NoSubs
 9  4 11 101 15   98.4  0.296  1.490  0.005 1210.  386.    -23.6  0.1880  0.32  0.15  2.60  344.0  15.0  291.0  2.0   0  0.00  39.  1007.   3 NAD-SFC NoSubs
 9  4 11 101 16   73.0  0.455  1.370  0.005 1265.  737.   -116.0  0.1880  0.32  0.16  4.60  342.0  15.0  291.2  2.0   0  0.00  39.  1006.   3 NAD-SFC NoSubs
 9  4 11 101 17   41.0  0.486  1.138  0.005 1293.  814.   -252.4  0.1880  0.32  0.20  5.10  353.0  15.0  291.1  2.0   0  0.00  43.  1007.   3 NAD-SFC NoSubs
 9  4 11 101 18    5.7  0.336  0.592  0.005 1295.  485.   -591.0  0.1880  0.32  0.35  3.60  341.0  15.0  290.2  2.0   0  0.00  53.  1007.   3 NAD-SFC NoSubs
 9  4 11 101 19  -36.3  0.346 -9.000 -9.000 -999.  489.    102.9  0.1620  0.32  1.00  4.10  318.0  15.0  289.2  2.0   0  0.00  57.  1008.   3 NAD-SFC NoSubs
 9  4 11 101 20  -36.4  0.346 -9.000 -9.000 -999.  489.    102.5  0.1620  0.32  1.00  4.10  316.0  15.0  288.0  2.0   0  0.00  62.  1008.   3 NAD-SFC NoSubs
 9  4 11 101 21  -27.3  0.258 -9.000 -9.000 -999.  319.     56.8  0.1620  0.32  1.00  3.10  306.0  15.0  287.1  2.0   0  0.00  65.  1009.   3 NAD-SFC NoSubs
 9  4 11 101 22   -6.5  0.120 -9.000 -9.000 -999.  115.     24.3  0.1620  0.32  1.00  1.50  319.0  15.0  286.4  2.0   0  0.00  67.  1010.   3 NAD-SFC NoSubs
 9  4 11 101 23   -1.1  0.069 -9.000 -9.000 -999.   45.     27.7  0.0510  0.32  1.00  0.50   95.0  15.0  285.6  2.0   0  0.00  70.  1011.   3 NAD-SFC NoSubs
 9  4 11 101 24   -2.5  0.080 -9.000 -9.000 -999.   54.     18.3  0.0510  0.32  1.00  1.00  107.0  15.0  284.6  2.0   0  0.00  73.  1011.   3 NAD-SFC NoSubs
 9  4 12 102  1   -1.5  0.080 -9.000 -9.000 -999.   54.     31.1  0.1900  0.32  1.00  0.50   26.0  15.0  284.0  2.0   0  0.00  75.  1011.   3 NAD-SFC NoSubs
 9  4 12 102  2   -1.5  0.080 -9.000 -9.000 -999.   54.     31.1  0.1880  0.32  1.00  0.50  338.0  15.0  283.5  2.0   0  0.00  77.  1012.   3 NAD-SFC NoSubs
 9  4 12 102  3   -1.5  0.080 -9.000 -9.000 -999.   54.     31.1  0.1880  0.32  1.00  0.50  350.0  15.0  283.2  2.0   0  0.00  77.  1012.   3 NAD-SFC NoSubs
 9  4 12 102  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  283.0  2.0   0  0.00  78.  1012.   3 NAD-SFC NoSubs
 9  4 12 102  5   -1.5  0.080 -9.000 -9.000 -999.   54.     31.2  0.1900  0.32  1.00  0.50    1.0  15.0  282.6  2.0   0  0.00  79.  1013.   3 NAD-SFC NoSubs
 9  4 12 102  6   -1.5  0.080 -9.000 -9.000 -999.   54.     31.2  0.1880  0.32  1.00  0.50  353.0  15.0  282.2  2.0   0  0.00  82.  1013.   3 NAD-SFC NoSubs
 9  4 12 102  7    5.7 -9.000 -9.000 -9.000   47. -999. -99999.0  0.0879  0.32  0.33  0.00    0.0  15.0  282.4  2.0   0  0.00  82.  1014.   2 NAD-SFC NoSubs
 9  4 12 102  8   41.4 -9.000 -9.000 -9.000  253. -999. -99999.0  0.0879  0.32  0.20  0.00    0.0  15.0  284.5  2.0   0  0.00  73.  1014.   2 NAD-SFC NoSubs
 9  4 12 102  9   73.6 -9.000 -9.000 -9.000  365. -999. -99999.0  0.0879  0.32  0.16  0.00    0.0  15.0  286.0  2.0   0  0.00  66.  1014.   2 NAD-SFC NoSubs
 9  4 12 102 10   99.2  0.086  1.139  0.006  539.   60.     -1.0  0.0780  0.32  0.15  0.50  281.0  15.0  287.6  2.0   0  0.00  59.  1013.   2 NAD-SFC NoSubs
 9  4 12 102 11  116.7  0.087  1.310  0.007  697.   62.     -1.0  0.0780  0.32  0.14  0.50  289.0  15.0  289.2  2.0   0  0.00  53.  1013.   2 NAD-SFC NoSubs
 9  4 12 102 12  125.6  0.135  1.418  0.007  819.  118.     -1.7  0.0780  0.32  0.14  1.00  296.0  15.0  290.9  2.0   0  0.00  47.  1011.   2 NAD-SFC NoSubs
 9  4 12 102 13  125.6  0.201  1.477  0.008  925.  216.     -5.8  0.1620  0.32  0.14  1.50  306.0  15.0  292.1  2.0   0  0.00  43.  1010.   2 NAD-SFC NoSubs
 9  4 12 102 14  116.8  0.251  1.482  0.008 1003.  302.    -12.2  0.1620  0.32  0.14  2.10  325.0  15.0  293.0  2.0   0  0.00  40.  1009.   2 NAD-SFC NoSubs
 9  4 12 102 15   99.3  0.287  1.427  0.008 1054.  370.    -21.5  0.1620  0.32  0.15  2.60  326.0  15.0  293.6  2.0   0  0.00  39.  1009.   2 NAD-SFC NoSubs
 9  4 12 102 16   73.7  0.330  1.307  0.008 1090.  456.    -44.0  0.1880  0.32  0.16  3.10  337.0  15.0  293.8  2.0   0  0.00  40.  1008.   2 NAD-SFC NoSubs
 9  4 12 102 17   41.3  0.317  1.085  0.008 1110.  429.    -69.5  0.1880  0.32  0.20  3.10  346.0  15.0  293.8  2.0   0  0.00  41.  1008.   2 NAD-SFC NoSubs
 9  4 12 102 18    5.8  0.156  0.565  0.008 1112.  168.    -58.2  0.1880  0.32  0.35  1.50  346.0  15.0  293.2  2.0   0  0.00  47.  1008.   2 NAD-SFC NoSubs
 9  4 12 102 19    2.4 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  292.4  2.0   0  0.00  50.  1008.   2 NAD-SFC NoSubs
 9  4 12 102 20   -1.0  0.067 -9.000 -9.000 -999.   41.     26.7  0.0330  0.32  1.00  0.50  192.0  15.0  291.0  2.0   0  0.00  56.  1008.   2 NAD-SFC NoSubs
 9  4 12 102 21   -1.0  0.067 -9.000 -9.000 -999.   42.     26.8  0.0340  0.32  1.00  0.50  222.0  15.0  289.6  2.0   0  0.00  62.  1008.   2 NAD-SFC NoSubs
 9  4 12 102 22   -1.0  0.067 -9.000 -9.000 -999.   41.     26.7  0.0310  0.32  1.00  0.50  240.0  15.0  288.4  2.0   0  0.00  67.  1009.   2 NAD-SFC NoSubs
 9  4 12 102 23   -1.0  0.067 -9.000 -9.000 -999.   41.     26.7  0.0310  0.32  1.00  0.50  268.0  15.0  287.8  2.0   0  0.00  69.  1009.   2 NAD-SFC NoSubs
 9  4 12 102 24   -3.4  0.093 -9.000 -9.000 -999.   68.     21.5  0.1620  0.32  1.00  1.00  323.0  15.0  286.9  2.0   0  0.00  72.  1008.   2 NAD-SFC NoSubs
 9  4 13 103  1   -6.9  0.125 -9.000 -9.000 -999.  106.     25.1  0.1880  0.32  1.00  1.50  353.0  15.0  286.2  2.0   0  0.00  75.  1008.   2 NAD-SFC NoSubs
 9  4 13 103  2   -6.9  0.125 -9.000 -9.000 -999.  106.     25.2  0.1900  0.32  1.00  1.50   12.0  15.0  285.8  2.0   0  0.00  79.  1007.   2 NAD-SFC NoSubs
 9  4 13 103  3   -3.5  0.095 -9.000 -9.000 -999.   71.     22.0  0.1900  0.32  1.00  1.00   22.0  15.0  285.2  2.0   0  0.00  83.  1007.   2 NAD-SFC NoSubs
 9  4 13 103  4   -1.4  0.077 -9.000 -9.000 -999.   51.     30.4  0.1280  0.32  1.00  0.50   51.0  15.0  284.8  2.0   0  0.00  86.  1007.   2 NAD-SFC NoSubs
 9  4 13 103  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  284.4  2.0   0  0.00  89.  1006.   2 NAD-SFC NoSubs
 9  4 13 103  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  284.1  2.0   0  0.00  92.  1007.   2 NAD-SFC NoSubs
 9  4 13 103  7    6.6 -9.000 -9.000 -9.000   63. -999. -99999.0  0.0879  0.32  0.33  0.00    0.0  15.0  283.8  2.0   0  0.00  94.  1006.   2 NAD-SFC NoSubs
 9  4 13 103  8   42.2  0.140  0.595  0.007  179.  126.     -5.9  0.1880  0.32  0.20  1.00  349.0  15.0  285.2  2.0   0  0.00  90.  1006.   2 NAD-SFC NoSubs
 9  4 13 103  9   74.4 -9.000 -9.000 -9.000  311. -999. -99999.0  0.0879  0.32  0.16  0.00    0.0  15.0  286.8  2.0   0  0.00  82.  1006.   2 NAD-SFC NoSubs
 9  4 13 103 10   99.9 -9.000 -9.000 -9.000  464. -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0  288.2  2.0   0  0.00  75.  1005.   2 NAD-SFC NoSubs
 9  4 13 103 11  117.3 -9.000 -9.000 -9.000  634. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  289.5  2.0   0  0.00  70.  1005.   2 NAD-SFC NoSubs
 9  4 13 103 12  126.1  0.102  1.383  0.011  752.   78.     -1.0  0.1620  0.32  0.14  0.50  309.0  15.0  291.0  2.0   0  0.00  63.  1004.   2 NAD-SFC NoSubs
 9  4 13 103 13  126.1  0.156  1.441  0.012  849.  147.     -2.7  0.1620  0.32  0.14  1.00  321.0  15.0  292.1  2.0   0  0.00  58.  1003.   2 NAD-SFC NoSubs
 9  4 13 103 14  117.2  0.206  1.450  0.012  931.  224.     -6.6  0.1880  0.32  0.14  1.50  345.0  15.0  292.8  2.0   0  0.00  56.  1002.   2 NAD-SFC NoSubs
 9  4 13 103 15   99.6  0.296  1.399  0.012  983.  387.    -23.3  0.1880  0.32  0.15  2.60  355.0  15.0  293.0  2.0   0  0.00  56.  1002.   2 NAD-SFC NoSubs
 9  4 13 103 16   74.0  0.290  1.277  0.012 1006.  374.    -29.3  0.1900  0.32  0.16  2.60    3.0  15.0  293.1  2.0   0  0.00  57.  1001.   2 NAD-SFC NoSubs
 9  4 13 103 17   41.6  0.235  1.059  0.012 1019.  274.    -27.7  0.1880  0.32  0.20  2.10  352.0  15.0  293.0  2.0   0  0.00  63.  1001.   2 NAD-SFC NoSubs
 9  4 13 103 18    6.1  0.249  0.559  0.012 1020.  298.   -226.1  0.1880  0.32  0.34  2.60  344.0  15.0  292.5  2.0   0  0.00  66.  1001.   2 NAD-SFC NoSubs
 9  4 13 103 19  -32.4  0.314 -9.000 -9.000 -999.  422.     85.2  0.1880  0.32  1.00  3.60  334.0  15.0  291.8  2.0   0  0.00  71.  1002.   3 NAD-SFC NoSubs
 9  4 13 103 20  -35.9  0.346 -9.000 -9.000 -999.  489.    103.4  0.1620  0.32  1.00  4.10  324.0  15.0  290.6  2.0   0  0.00  79.  1002.   3 NAD-SFC NoSubs
 9  4 13 103 21  -36.0  0.360 -9.000 -9.000 -999.  518.    115.4  0.1880  0.32  1.00  4.10  331.0  15.0  289.8  2.0   0  0.00  82.  1002.   4 NAD-SFC NoSubs
 9  4 13 103 22  -40.7  0.405 -9.000 -9.000 -999.  619.    146.2  0.1880  0.32  1.00  4.60  345.0  15.0  288.9  2.0   0  0.00  80.  1002.   4 NAD-SFC NoSubs
 9  4 13 103 23  -43.9  0.435 -9.000 -9.000 -999.  688.    167.6  0.1620  0.32  1.00  5.10  327.0  15.0  287.8  2.0   0  0.00  75.  1002.   4 NAD-SFC NoSubs
 9  4 13 103 24  -28.9  0.348 -9.000 -9.000 -999.  498.    130.3  0.1620  0.32  1.00  4.10  327.0  15.0  286.8  2.0   0  0.25  75.  1003.   7 NAD-SFC NoSubs
 9  4 14 104  1  -15.0  0.272 -9.000 -9.000 -999.  344.    120.1  0.1880  0.32  1.00  3.10  334.0  15.0  286.2  2.0   0  0.25  75.  1003.  10 NAD-SFC NoSubs
 9  4 14 104  2  -17.5  0.318 -9.000 -9.000 -999.  430.    163.7  0.1880  0.32  1.00  3.60  335.0  15.0  285.8  2.0   0  0.00  74.  1002.  10 NAD-SFC NoSubs
 9  4 14 104  3  -19.4  0.351 -9.000 -9.000 -999.  499.    198.9  0.1620  0.32  1.00  4.10  328.0  15.0  285.2  2.0   0  0.00  74.  1002.  10 NAD-SFC NoSubs
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 9  4 14 104   4  -21.9  0.396 -9.000 -9.000 -999.   597.    252.3  0.1620  0.32  1.00   4.60  327.0  15.0  284.6   2.0    0   0.00   74.  1002.    10 NAD-SFC NoSubs
 9  4 14 104   5  -22.8  0.410 -9.000 -9.000 -999.   631.    271.0  0.1880  0.32  1.00   4.60  335.0  15.0  283.9   2.0    0   0.00   73.  1003.    10 NAD-SFC NoSubs
 9  4 14 104   6  -25.5  0.457 -9.000 -9.000 -999.   741.    335.2  0.1880  0.32  1.00   5.10  333.0  15.0  283.2   2.0    0   0.00   73.  1003.    10 NAD-SFC NoSubs
 9  4 14 104   7   -2.8  0.527 -9.000 -9.000 -999.   916.   4642.5  0.1880  0.32  0.32   5.70  332.0  15.0  282.4   2.0    0   0.00   73.  1003.    10 NAD-SFC NoSubs
 9  4 14 104   8    8.4  0.570  0.456  0.007  405.  1032.  -1976.0  0.1880  0.32  0.19   6.20  333.0  15.0  281.8   2.0    0   0.00   70.  1004.    10 NAD-SFC NoSubs
 9  4 14 104   9   16.4  0.529  0.582  0.006  430.   925.   -807.4  0.1880  0.32  0.16   5.70  332.0  15.0  281.8   2.0    0   0.00   67.  1004.    10 NAD-SFC NoSubs
 9  4 14 104  10   22.7  0.479  0.665  0.006  463.   798.   -431.6  0.1880  0.32  0.15   5.10  336.0  15.0  282.2   2.0    0   0.00   63.  1004.    10 NAD-SFC NoSubs
 9  4 14 104  11   27.2  0.481  0.724  0.006  499.   800.   -366.1  0.1880  0.32  0.14   5.10  343.0  15.0  283.1   2.0    0   0.00   59.  1004.    10 NAD-SFC NoSubs
 9  4 14 104  12  112.0  0.601  1.253  0.007  629.  1116.   -173.2  0.1880  0.32  0.14   6.20  336.0  15.0  285.0   2.0    0   0.00   51.  1004.     6 NAD-SFC NoSubs
 9  4 14 104  13  123.5  0.688  1.367  0.007  741.  1368.   -236.3  0.1880  0.32  0.14   7.20  336.0  15.0  286.1   2.0    0   0.00   46.  1003.     4 NAD-SFC NoSubs
 9  4 14 104  14  116.4  0.817  1.393  0.007  831.  1767.   -419.1  0.1880  0.32  0.14   8.70  330.0  15.0  286.8   2.0    0   0.00   38.  1003.     3 NAD-SFC NoSubs
 9  4 14 104  15   98.9  0.911  1.355  0.008  901.  2080.   -684.5  0.1880  0.32  0.15   9.80  335.0  15.0  286.9   2.0    0   0.00   33.  1003.     3 NAD-SFC NoSubs
 9  4 14 104  16   73.4  0.908  1.249  0.008  949.  2075.   -909.4  0.1880  0.32  0.16   9.80  341.0  15.0  286.5   2.0    0   0.00   34.  1002.     3 NAD-SFC NoSubs
 9  4 14 104  17   41.4  0.759  1.041  0.007  975.  1622.   -943.7  0.1880  0.32  0.20   8.20  338.0  15.0  286.1   2.0    0   0.00   38.  1002.     3 NAD-SFC NoSubs
 9  4 14 104  18    6.1  0.425  0.552  0.007  977.   810.  -1116.8  0.1880  0.32  0.34   4.60  341.0  15.0  285.1   2.0    0   0.00   50.  1003.     3 NAD-SFC NoSubs
 9  4 14 104  19  -46.1  0.435 -9.000 -9.000 -999.   690.    159.2  0.1620  0.32  1.00   5.10  328.0  15.0  284.2   2.0    0   0.00   55.  1003.     3 NAD-SFC NoSubs
 9  4 14 104  20  -51.9  0.488 -9.000 -9.000 -999.   817.    199.9  0.1620  0.32  1.00   5.70  327.0  15.0  283.2   2.0    0   0.00   59.  1003.     3 NAD-SFC NoSubs
 9  4 14 104  21  -52.2  0.488 -9.000 -9.000 -999.   818.    199.2  0.1620  0.32  1.00   5.70  310.0  15.0  282.2   2.0    0   0.00   62.  1004.     3 NAD-SFC NoSubs
 9  4 14 104  22  -39.7  0.370 -9.000 -9.000 -999.   551.    114.2  0.0780  0.32  1.00   5.10  286.0  15.0  281.2   2.0    0   0.00   65.  1004.     3 NAD-SFC NoSubs
 9  4 14 104  23  -44.8  0.415 -9.000 -9.000 -999.   642.    143.4  0.0780  0.32  1.00   5.70  284.0  15.0  280.2   2.0    0   0.00   68.  1005.     3 NAD-SFC NoSubs
 9  4 14 104  24  -40.0  0.370 -9.000 -9.000 -999.   542.    113.4  0.0780  0.32  1.00   5.10  294.0  15.0  279.5   2.0    0   0.00   69.  1005.     3 NAD-SFC NoSubs
 9  4 15 105   1  -40.0  0.370 -9.000 -9.000 -999.   540.    113.3  0.0780  0.32  1.00   5.10  291.0  15.0  279.1   2.0    0   0.00   71.  1005.     3 NAD-SFC NoSubs
 9  4 15 105   2  -40.1  0.370 -9.000 -9.000 -999.   540.    113.1  0.0780  0.32  1.00   5.10  288.0  15.0  278.6   2.0    0   0.00   73.  1006.     3 NAD-SFC NoSubs
 9  4 15 105   3  -42.4  0.390 -9.000 -9.000 -999.   585.    125.6  0.1620  0.32  1.00   4.60  300.0  15.0  278.2   2.0    0   0.00   74.  1006.     3 NAD-SFC NoSubs
 9  4 15 105   4  -37.7  0.346 -9.000 -9.000 -999.   490.     98.7  0.1620  0.32  1.00   4.10  302.0  15.0  277.9   2.0    0   0.00   76.  1007.     3 NAD-SFC NoSubs
 9  4 15 105   5  -33.0  0.302 -9.000 -9.000 -999.   400.     75.2  0.1620  0.32  1.00   3.60  315.0  15.0  277.6   2.0    0   0.00   77.  1008.     3 NAD-SFC NoSubs
 9  4 15 105   6  -20.2  0.214 -9.000 -9.000 -999.   241.     43.5  0.1620  0.32  1.00   2.60  300.0  15.0  277.4   2.0    0   0.00   76.  1009.     3 NAD-SFC NoSubs
 9  4 15 105   7    8.5  0.427  0.236  0.005   56.   669.   -824.9  0.1880  0.32  0.32   4.60  333.0  15.0  278.9   2.0    0   0.00   68.  1009.     3 NAD-SFC NoSubs
 9  4 15 105   8   43.8  0.627  0.716  0.005  302.  1190.   -505.9  0.1880  0.32  0.19   6.70  332.0  15.0  280.8   2.0    0   0.00   55.  1010.     3 NAD-SFC NoSubs
 9  4 15 105   9   75.5  0.657  1.122  0.005  674.  1276.   -338.4  0.1620  0.32  0.16   7.20  329.0  15.0  282.2   2.0    0   0.00   46.  1010.     3 NAD-SFC NoSubs
 9  4 15 105  10  100.5  0.727  1.337  0.005  857.  1484.   -344.3  0.1880  0.32  0.15   7.70  331.0  15.0  283.8   2.0    0   0.00   39.  1010.     3 NAD-SFC NoSubs
 9  4 15 105  11  117.6  0.817  1.500  0.005 1036.  1767.   -418.1  0.1880  0.32  0.14   8.70  330.0  15.0  284.8   2.0    0   0.00   35.  1010.     3 NAD-SFC NoSubs
 9  4 15 105  12  126.0  0.871  1.616  0.005 1208.  1946.   -472.0  0.1880  0.32  0.14   9.30  330.0  15.0  285.6   2.0    0   0.00   33.  1009.     3 NAD-SFC NoSubs
 9  4 15 105  13  125.7  0.844  1.678  0.005 1355.  1863.   -429.5  0.1620  0.32  0.14   9.30  328.0  15.0  286.2   2.0    0   0.00   32.  1009.     3 NAD-SFC NoSubs
 9  4 15 105  14  116.9  0.870  1.682  0.005 1465.  1944.   -505.8  0.1880  0.32  0.14   9.30  331.0  15.0  286.8   2.0    0   0.00   30.  1008.     2 NAD-SFC NoSubs
 9  4 15 105  15   99.3  0.840  1.623  0.005 1552.  1851.   -535.9  0.1620  0.32  0.15   9.30  326.0  15.0  287.2   2.0    0   0.00   30.  1008.     2 NAD-SFC NoSubs
 9  4 15 105  16   73.7  0.722  1.490  0.005 1614.  1494.   -458.2  0.1880  0.32  0.16   7.70  342.0  15.0  287.8   2.0    0   0.00   30.  1008.     2 NAD-SFC NoSubs
 9  4 15 105  17   41.4  0.487  1.238  0.005 1648.   880.   -249.9  0.1880  0.32  0.20   5.10  337.0  15.0  287.4   2.0    0   0.00   38.  1007.     2 NAD-SFC NoSubs
 9  4 15 105  18    5.8  0.336  0.643  0.005 1649.   493.   -586.7  0.1880  0.32  0.34   3.60  344.0  15.0  286.4   2.0    0   0.00   47.  1008.     2 NAD-SFC NoSubs
 9  4 15 105  19  -34.2  0.314 -9.000 -9.000 -999.   422.     81.0  0.1880  0.32  1.00   3.60  333.0  15.0  285.2   2.0    0   0.00   48.  1008.     2 NAD-SFC NoSubs
 9  4 15 105  20  -33.0  0.302 -9.000 -9.000 -999.   399.     75.1  0.1620  0.32  1.00   3.60  324.0  15.0  284.8   2.0    0   0.00   48.  1009.     2 NAD-SFC NoSubs
 9  4 15 105  21  -28.2  0.258 -9.000 -9.000 -999.   315.     54.7  0.1620  0.32  1.00   3.10  315.0  15.0  284.4   2.0    0   0.00   47.  1009.     2 NAD-SFC NoSubs
 9  4 15 105  22   -2.8  0.085 -9.000 -9.000 -999.    96.     19.4  0.0780  0.32  1.00   1.00  291.0  15.0  283.0   2.0    0   0.00   51.  1010.     2 NAD-SFC NoSubs
 9  4 15 105  23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00   0.00    0.0  15.0  282.0   2.0    0   0.00   55.  1011.     3 NAD-SFC NoSubs
 9  4 15 105  24   -1.1  0.070 -9.000 -9.000 -999.    44.     27.9  0.0510  0.32  1.00   0.50  104.0  15.0  281.6   2.0    0   0.00   57.  1011.     3 NAD-SFC NoSubs
 9  4 16 106   1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00   0.00    0.0  15.0  281.2   2.0    0   0.00   59.  1011.     3 NAD-SFC NoSubs
 9  4 16 106   2   -1.0  0.067 -9.000 -9.000 -999.    41.     26.7  0.0310  0.32  1.00   0.50  247.0  15.0  280.6   2.0    0   0.00   62.  1012.     3 NAD-SFC NoSubs
 9  4 16 106   3   -1.2  0.073 -9.000 -9.000 -999.    47.     29.0  0.0780  0.32  1.00   0.50  293.0  15.0  280.0   2.0    0   0.00   66.  1012.     3 NAD-SFC NoSubs
 9  4 16 106   4   -1.4  0.079 -9.000 -9.000 -999.    53.     30.9  0.1620  0.32  1.00   0.50  312.0  15.0  279.5   2.0    0   0.00   69.  1013.     3 NAD-SFC NoSubs
 9  4 16 106   5   -3.4  0.093 -9.000 -9.000 -999.    68.     21.5  0.1620  0.32  1.00   1.00  305.0  15.0  279.1   2.0    0   0.00   72.  1013.     3 NAD-SFC NoSubs
 9  4 16 106   6   -2.8  0.084 -9.000 -9.000 -999.    59.     19.4  0.0780  0.32  0.72   1.00  294.0  15.0  278.8   2.0    0   0.00   74.  1014.     3 NAD-SFC NoSubs
 9  4 16 106   7    9.3  0.156  0.234  0.006   50.   148.    -37.2  0.1620  0.32  0.31   1.50  323.0  15.0  280.0   2.0    0   0.00   72.  1014.     3 NAD-SFC NoSubs
 9  4 16 106   8   44.7  0.185  0.674  0.006  247.   192.    -12.9  0.1880  0.32  0.19   1.50  333.0  15.0  282.4   2.0    0   0.00   63.  1014.     3 NAD-SFC NoSubs
 9  4 16 106   9   76.1  0.151  0.933  0.006  386.   140.     -4.1  0.1880  0.32  0.16   1.00  345.0  15.0  284.2   2.0    0   0.00   54.  1014.     2 NAD-SFC NoSubs
 9  4 16 106  10  101.3  0.156  1.133  0.005  519.   147.     -3.4  0.1880  0.32  0.15   1.00  339.0  15.0  285.8   2.0    0   0.00   48.  1014.     2 NAD-SFC NoSubs
 9  4 16 106  11  118.5  0.101  1.281  0.005  642.    78.     -1.0  0.1620  0.32  0.14   0.50  321.0  15.0  287.2   2.0    0   0.00   43.  1013.     2 NAD-SFC NoSubs
 9  4 16 106  12  127.1  0.156  1.419  0.005  814.   147.     -2.7  0.1620  0.32  0.14   1.00  329.0  15.0  288.8   2.0    0   0.00   39.  1013.     2 NAD-SFC NoSubs
 9  4 16 106  13  127.0  0.207  1.502  0.005  965.   227.     -6.3  0.1880  0.32  0.14   1.50  338.0  15.0  290.1   2.0    0   0.00   37.  1012.     2 NAD-SFC NoSubs
 9  4 16 106  14  118.1  0.259  1.523  0.005 1080.   316.    -13.2  0.1880  0.32  0.14   2.10  355.0  15.0  291.0   2.0    0   0.00   35.  1011.     2 NAD-SFC NoSubs
 9  4 16 106  15  100.5  0.296  1.482  0.005 1169.   387.    -23.3  0.1880  0.32  0.15   2.60  355.0  15.0  291.6   2.0    0   0.00   35.  1011.     2 NAD-SFC NoSubs
 9  4 16 106  16   74.9  0.372  1.367  0.006 1230.   544.    -61.9  0.1880  0.32  0.16   3.60  355.0  15.0  291.8   2.0    0   0.00   37.  1011.     2 NAD-SFC NoSubs
 9  4 16 106  17   42.7  0.360  1.143  0.006 1263.   518.    -98.3  0.1880  0.32  0.20   3.60  346.0  15.0  291.6   2.0    0   0.00   39.  1011.     2 NAD-SFC NoSubs
 9  4 16 106  18    7.1  0.250  0.629  0.006 1267.   307.   -199.6  0.1880  0.32  0.33   2.60  351.0  15.0  291.1   2.0    0   0.00   47.  1011.     2 NAD-SFC NoSubs
 9  4 16 106  19  -21.3  0.222 -9.000 -9.000 -999.   252.     46.4  0.1880  0.32  1.00   2.60  348.0  15.0  290.2   2.0    0   0.00   48.  1011.     2 NAD-SFC NoSubs
 9  4 16 106  20  -13.7  0.176 -9.000 -9.000 -999.   178.     36.1  0.1880  0.32  1.00   2.10  339.0  15.0  289.1   2.0    0   0.00   52.  1011.     2 NAD-SFC NoSubs
 9  4 16 106  21   -3.4  0.093 -9.000 -9.000 -999.    70.     21.5  0.1620  0.32  1.00   1.00  326.0  15.0  287.9   2.0    0   0.00   56.  1012.     2 NAD-SFC NoSubs
 9  4 16 106  22   -1.0  0.068 -9.000 -9.000 -999.    43.     27.2  0.0380  0.32  1.00   0.50  175.0  15.0  286.6   2.0    0   0.00   61.  1012.     2 NAD-SFC NoSubs
 9  4 16 106  23   -2.5  0.080 -9.000 -9.000 -999.    54.     18.2  0.0460  0.32  1.00   1.00  138.0  15.0  285.5   2.0    0   0.00   65.  1012.     2 NAD-SFC NoSubs
 9  4 16 106  24   -4.7  0.098 -9.000 -9.000 -999.    73.     18.1  0.0510  0.32  1.00   1.50  117.0  15.0  284.5   2.0    0   0.00   68.  1012.     2 NAD-SFC NoSubs
 9  4 17 107   1   -1.1  0.070 -9.000 -9.000 -999.    44.     27.8  0.0460  0.32  1.00   0.50  139.0  15.0  283.9   2.0    0   0.00   70.  1012.     2 NAD-SFC NoSubs
 9  4 17 107   2   -1.2  0.073 -9.000 -9.000 -999.    48.     29.2  0.0780  0.32  1.00   0.50  279.0  15.0  283.2   2.0    0   0.00   72.  1013.     2 NAD-SFC NoSubs
 9  4 17 107   3   -6.6  0.121 -9.000 -9.000 -999.   100.     23.9  0.1620  0.32  1.00   1.50  306.0  15.0  282.8   2.0    0   0.00   73.  1013.     2 NAD-SFC NoSubs
 9  4 17 107   4   -6.6  0.121 -9.000 -9.000 -999.   100.     23.9  0.1620  0.32  1.00   1.50  307.0  15.0  282.2   2.0    0   0.00   75.  1013.     2 NAD-SFC NoSubs
 9  4 17 107   5   -6.6  0.121 -9.000 -9.000 -999.   100.     23.9  0.1620  0.32  1.00   1.50  310.0  15.0  281.8   2.0    0   0.00   78.  1014.     2 NAD-SFC NoSubs
 9  4 17 107   6   -5.2  0.105 -9.000 -9.000 -999.    81.     19.8  0.0780  0.32  0.71   1.50  289.0  15.0  281.2   2.0    0   0.00   79.  1014.     2 NAD-SFC NoSubs
 9  4 17 107   7    9.4  0.245  0.241  0.007   54.   292.   -143.0  0.1620  0.32  0.31   2.60  316.0  15.0  282.5   2.0    0   0.00   72.  1014.     2 NAD-SFC NoSubs
 9  4 17 107   8   45.1  0.180  0.592  0.008  166.   185.    -11.7  0.1620  0.32  0.19   1.50  320.0  15.0  284.4   2.0    0   0.00   62.  1014.     2 NAD-SFC NoSubs
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9	4	17	107	9	77.1	0.083	0.863	0.007	301.	62.	-1.0	0.0780	0.32	0.16	0.50	277.0	15.0	286.6	2.0	0	0.00	53.	1014.	2	NAD-SFC NoSubs
9	4	17	107	10	102.3	-9.000	-9.000	-9.000	443.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	288.5	2.0	0	0.00	47.	1014.	2	NAD-SFC NoSubs
9	4	17	107	11	119.6	-9.000	-9.000	-9.000	597.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	290.2	2.0	0	0.00	43.	1013.	2	NAD-SFC NoSubs
9	4	17	107	12	128.2	-9.000	-9.000	-9.000	730.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	291.9	2.0	0	0.00	37.	1011.	2	NAD-SFC NoSubs
9	4	17	107	13	128.1	-9.000	-9.000	-9.000	844.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	293.2	2.0	0	0.00	34.	1010.	2	NAD-SFC NoSubs
9	4	17	107	14	119.2	0.105	1.459	0.008	938.	81.	-1.0	0.1880	0.32	0.14	0.50	345.0	15.0	294.1	2.0	0	0.00	33.	1009.	2	NAD-SFC NoSubs
9	4	17	107	15	101.6	0.156	1.414	0.008	1002.	148.	-3.3	0.1880	0.32	0.15	1.00	352.0	15.0	294.8	2.0	0	0.00	32.	1009.	2	NAD-SFC NoSubs
9	4	17	107	16	76.1	0.248	1.302	0.008	1043.	296.	-18.0	0.1880	0.32	0.16	2.10	349.0	15.0	295.0	2.0	0	0.00	32.	1008.	2	NAD-SFC NoSubs
9	4	17	107	17	43.9	0.278	1.091	0.008	1066.	351.	-44.0	0.1900	0.32	0.20	2.60	2.0	15.0	294.9	2.0	0	0.00	34.	1008.	2	NAD-SFC NoSubs
9	4	17	107	18	8.2	0.252	0.625	0.008	1069.	305.	-175.9	0.1900	0.32	0.33	2.60	3.0	15.0	294.2	2.0	0	0.00	41.	1008.	2	NAD-SFC NoSubs
9	4	17	107	19	0.7	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	293.2	2.0	0	0.00	44.	1008.	2	NAD-SFC NoSubs
9	4	17	107	20	-6.9	0.125	-9.000	-9.000	-999.	106.	25.4	0.1900	0.32	1.00	1.50	10.0	15.0	292.0	2.0	0	0.00	47.	1008.	2	NAD-SFC NoSubs
9	4	17	107	21	-1.2	0.072	-9.000	-9.000	-999.	47.	28.8	0.0760	0.32	1.00	0.50	89.0	15.0	290.5	2.0	0	0.00	52.	1008.	2	NAD-SFC NoSubs
9	4	17	107	22	-1.0	0.067	-9.000	-9.000	-999.	42.	26.8	0.0330	0.32	1.00	0.50	185.0	15.0	289.0	2.0	0	0.00	59.	1008.	2	NAD-SFC NoSubs
9	4	17	107	23	-1.0	0.067	-9.000	-9.000	-999.	42.	26.8	0.0330	0.32	1.00	0.50	192.0	15.0	287.8	2.0	0	0.00	64.	1009.	2	NAD-SFC NoSubs
9	4	17	107	24	-1.2	0.073	-9.000	-9.000	-999.	47.	29.0	0.0780	0.32	1.00	0.50	285.0	15.0	286.9	2.0	0	0.00	66.	1008.	2	NAD-SFC NoSubs
9	4	18	108	1	-2.8	0.084	-9.000	-9.000	-999.	59.	19.4	0.0780	0.32	1.00	1.00	289.0	15.0	286.2	2.0	0	0.00	67.	1008.	2	NAD-SFC NoSubs
9	4	18	108	2	-10.0	0.144	-9.000	-9.000	-999.	131.	26.9	0.0780	0.32	1.00	2.10	299.0	15.0	285.6	2.0	0	0.00	70.	1009.	2	NAD-SFC NoSubs
9	4	18	108	3	-5.2	0.105	-9.000	-9.000	-999.	81.	19.8	0.0780	0.32	1.00	1.50	288.0	15.0	285.0	2.0	0	0.00	73.	1009.	2	NAD-SFC NoSubs
9	4	18	108	4	-5.2	0.105	-9.000	-9.000	-999.	81.	19.8	0.0780	0.32	1.00	1.50	277.0	15.0	284.5	2.0	0	0.00	73.	1009.	2	NAD-SFC NoSubs
9	4	18	108	5	-10.0	0.144	-9.000	-9.000	-999.	131.	26.8	0.0780	0.32	1.00	2.10	274.0	15.0	284.2	2.0	0	0.00	72.	1009.	2	NAD-SFC NoSubs
9	4	18	108	6	-7.7	0.122	-9.000	-9.000	-999.	102.	21.0	0.0310	0.32	0.69	2.10	268.0	15.0	283.9	2.0	0	0.00	71.	1010.	2	NAD-SFC NoSubs
9	4	18	108	7	10.4	0.180	0.244	0.008	50.	183.	-50.3	0.0780	0.32	0.31	2.10	295.0	15.0	284.9	2.0	0	0.00	66.	1010.	2	NAD-SFC NoSubs
9	4	18	108	8	46.2	0.180	0.567	0.008	142.	184.	-11.4	0.1620	0.32	0.19	1.50	302.0	15.0	287.2	2.0	0	0.00	57.	1010.	2	NAD-SFC NoSubs
9	4	18	108	9	78.3	0.070	0.823	0.007	257.	54.	-1.0	0.0310	0.32	0.15	0.50	268.0	15.0	289.6	2.0	0	0.00	49.	1010.	2	NAD-SFC NoSubs
9	4	18	108	10	103.5	0.131	1.025	0.006	375.	114.	-2.0	0.0780	0.32	0.14	1.00	274.0	15.0	291.8	2.0	0	0.00	42.	1010.	2	NAD-SFC NoSubs
9	4	18	108	11	120.9	0.088	1.256	0.007	590.	63.	-1.0	0.0780	0.32	0.14	0.50	284.0	15.0	293.8	2.0	0	0.00	36.	1009.	2	NAD-SFC NoSubs
9	4	18	108	12	129.6	-9.000	-9.000	-9.000	737.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	295.5	2.0	0	0.00	32.	1008.	2	NAD-SFC NoSubs
9	4	18	108	13	129.5	-9.000	-9.000	-9.000	844.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	296.9	2.0	0	0.00	30.	1007.	2	NAD-SFC NoSubs
9	4	18	108	14	120.7	0.105	1.464	0.008	933.	82.	-1.0	0.1900	0.32	0.14	0.50	5.0	15.0	298.0	2.0	0	0.00	29.	1006.	2	NAD-SFC NoSubs
9	4	18	108	15	103.1	-9.000	-9.000	-9.000	999.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	298.6	2.0	0	0.00	28.	1006.	2	NAD-SFC NoSubs
9	4	18	108	16	77.5	0.249	1.311	0.008	1042.	298.	-17.8	0.1900	0.32	0.16	2.10	15.0	15.0	298.8	2.0	0	0.00	28.	1005.	2	NAD-SFC NoSubs
9	4	18	108	17	45.2	0.279	1.103	0.008	1065.	353.	-42.8	0.1900	0.32	0.20	2.60	21.0	15.0	298.2	2.0	0	0.00	36.	1005.	2	NAD-SFC NoSubs
9	4	18	108	18	9.5	0.274	0.657	0.008	1069.	344.	-192.9	0.1280	0.32	0.33	3.10	35.0	15.0	297.5	2.0	0	0.00	41.	1005.	2	NAD-SFC NoSubs
9	4	18	108	19	-21.1	0.223	-9.000	-9.000	-999.	253.	47.1	0.1900	0.32	1.00	2.60	19.0	15.0	296.2	2.0	0	0.00	44.	1006.	2	NAD-SFC NoSubs
9	4	18	108	20	-1.4	0.079	-9.000	-9.000	-999.	75.	31.0	0.1900	0.32	1.00	0.50	19.0	15.0	294.8	2.0	0	0.00	48.	1006.	2	NAD-SFC NoSubs
9	4	18	108	21	-1.0	0.067	-9.000	-9.000	-999.	41.	26.7	0.0330	0.32	1.00	0.50	209.0	15.0	293.0	2.0	0	0.00	55.	1006.	2	NAD-SFC NoSubs
9	4	18	108	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	291.5	2.0	0	0.00	61.	1007.	2	NAD-SFC NoSubs
9	4	18	108	23	-1.2	0.072	-9.000	-9.000	-999.	47.	28.9	0.0760	0.32	1.00	0.50	73.0	15.0	290.1	2.0	0	0.00	67.	1007.	2	NAD-SFC NoSubs
9	4	18	108	24	-2.5	0.079	-9.000	-9.000	-999.	53.	18.1	0.0460	0.32	1.00	1.00	120.0	15.0	289.1	2.0	0	0.00	68.	1007.	2	NAD-SFC NoSubs
9	4	19	109	1	-1.0	0.067	-9.000	-9.000	-999.	42.	26.9	0.0340	0.32	1.00	0.50	235.0	15.0	288.5	2.0	0	0.00	68.	1008.	2	NAD-SFC NoSubs
9	4	19	109	2	-2.3	0.076	-9.000	-9.000	-999.	50.	17.3	0.0310	0.32	1.00	1.00	269.0	15.0	287.8	2.0	0	0.00	71.	1008.	2	NAD-SFC NoSubs
9	4	19	109	3	-5.2	0.104	-9.000	-9.000	-999.	81.	19.9	0.0780	0.32	1.00	1.50	289.0	15.0	287.2	2.0	0	0.00	72.	1008.	2	NAD-SFC NoSubs
9	4	19	109	4	-12.9	0.170	-9.000	-9.000	-999.	168.	34.1	0.1620	0.32	1.00	2.10	310.0	15.0	286.9	2.0	0	0.00	72.	1008.	2	NAD-SFC NoSubs
9	4	19	109	5	-12.9	0.170	-9.000	-9.000	-999.	168.	34.0	0.1620	0.32	1.00	2.10	320.0	15.0	286.4	2.0	0	0.00	74.	1008.	2	NAD-SFC NoSubs
9	4	19	109	6	-3.3	0.093	-9.000	-9.000	-999.	70.	21.4	0.1620	0.32	0.68	1.00	325.0	15.0	285.8	2.0	0	0.00	76.	1009.	2	NAD-SFC NoSubs
9	4	19	109	7	11.3	0.103	0.235	0.013	41.	79.	-8.7	0.0780	0.32	0.30	1.00	276.0	15.0	286.5	2.0	0	0.00	72.	1009.	2	NAD-SFC NoSubs
9	4	19	109	8	47.4	0.158	0.519	0.011	106.	151.	-7.5	0.0780	0.32	0.19	1.50	295.0	15.0	289.8	2.0	0	0.00	57.	1009.	2	NAD-SFC NoSubs
9	4	19	109	9	79.4	0.166	0.796	0.009	229.	163.	-5.2	0.0780	0.32	0.15	1.50	293.0	15.0	292.2	2.0	0	0.00	51.	1009.	2	NAD-SFC NoSubs
9	4	19	109	10	104.9	0.086	1.024	0.008	368.	63.	-1.0	0.0780	0.32	0.14	0.50	297.0	15.0	295.2	2.0	0	0.00	41.	1008.	2	NAD-SFC NoSubs
9	4	19	109	11	122.4	-9.000	-9.000	-9.000	501.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	297.8	2.0	0	0.00	32.	1008.	2	NAD-SFC NoSubs
9	4	19	109	12	131.1	0.106	1.310	0.006	616.	83.	-1.0	0.1880	0.32	0.14	0.50	338.0	15.0	299.4	2.0	0	0.00	29.	1007.	2	NAD-SFC NoSubs
9	4	19	109	13	131.2	0.106	1.389	0.005	733.	83.	-1.0	0.1900	0.32	0.14	0.50	11.0	15.0	301.0	2.0	0	0.00	26.	1006.	2	NAD-SFC NoSubs
9	4	19	109	14	122.3	0.105	1.419	0.005	839.	82.	-1.0	0.1900	0.32	0.14	0.50	26.0	15.0	301.9	2.0	0	0.00	25.	1005.	2	NAD-SFC NoSubs
9	4	19	109	15	104.7	0.204	1.389	0.005	919.	221.	-7.2	0.1900	0.32	0.15	1.50	26.0	15.0	302.4	2.0	0	0.00	25.	1005.	2	NAD-SFC NoSubs
9	4	19	109	16	79.1	0.291	1.292	0.005	976.	377.	-27.9	0.1900	0.32	0.16	2.60	28.0	15.0	302.4	2.0	0	0.00	27.	1004.	2	NAD-SFC NoSubs
9	4	19	109	17	46.6	0.296	1.098	0.005	1018.	387.	-50.1	0.1280	0.32	0.19	3.10	30.0	15.0	301.2	2.0	0	0.00	38.	1004.	2	NAD-SFC NoSubs
9	4	19	109	18	10.7	0.385	0.673	0.005	1023.	573.	-479.1	0.1900	0.32	0.32	4.10	26.0	15.0	299.9	2.0	0	0.00	44.	1005.	2	NAD-SFC NoSubs
9	4	19	109	19	-38.4	0.370	-9.000	-9.000	-999.	539.	117.8	0.1280	0.32	1.00	4.60	43.0	15.0	298.5	2.0	0	0.00	44.	1005.	2	NAD-SFC NoSubs
9	4	19	109	20	-38.5	0.369	-9.000	-9.000	-999.	539.	117.4	0.1280	0.32	1.00	4.60	48.0	15.0	297.4	2.0	0	0.00	44.	1005.	2	NAD-SFC NoSubs
9	4	19	109	21	-26.8	0.256	-9.000	-9.000	-999.	318.	56.0	0.0760	0.32	1.00	3.60	75.0	15.0	295.9	2.0	0	0.00	45.	1005.	2	NAD-SFC NoSubs
9	4	19	109	22	-8.4	0.130	-9.000	-9.000	-999.	124.	23.6	0.0460	0.32	1.00	2.10	134.0	15.0	294.5	2.0	0	0.00	43.	1006.	2	NAD-SFC NoSubs
9	4	19	109	23	-4.1	0.091	-9.000	-9.000	-999.	66.	16.7	0.0330	0.32	1.00	1.50	180.0	15.0	293.8	2.0	0	0.00	44.	1006.	2	NAD-SFC NoSubs
9	4	19	109	24	-1.0	0.067	-9.000	-9.000	-999.	41.	26.7	0.0330	0.32	1.00	0.50	189.0	15.0	292.9	2.0	0	0.00	46.	1006.	2	NAD-SFC NoSubs
9	4	20	110	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	291.8	2.0	0	0.00	50.	1006.	2	NAD-SFC NoSubs
9	4	20	110	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	290.5	2.0	0	0.00	55.	1006.	2	NAD-SFC NoSubs
9	4	20	110	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	289.5	2.0	0	0.00	58.	1006.	2	NAD-SFC NoSubs
9	4	20	110	4	-1.4	0.079	-9.000	-9.000	-999.	53.	30.9	0.1620	0.32	1.00	0.50	303.0	15.0	288.5	2.0	0	0.00	62.	1006.	2	NAD-SFC NoSubs
9	4	20	110	5	-6.5	0.120	-9.000	-9.000	-999.	100.	24.1	0.1620	0.32	1.00	1.50	315.0	15.0	287.6	2.0	0	0.00	66.	1006.	2	NAD-SFC NoSubs
9	4	20	110	6	-12.7	0.170	-9.000	-9.000	-999.	168.	34.5	0.1620	0.32	0.66	2.10	314.0	15.0	287.1	2.0	0	0.00	68.	1007.	2	NAD-SFC NoSubs
9	4	20	110	7	12.3	0.182	0.209	0.008	27.	186.	-43.8	0.0780	0.32	0.30	2.10	299.0	15.0	287.9	2.0	0	0.00	66.	1007.	2	NAD-SFC NoSubs
9	4	20	110	8	48.5	0.201	0.498	0.008	92.	217.	-15.1	0.0780	0.32	0.19	2.10	298.0	15.0	291.9	2.0	0	0.00	51.	1007.	2	NAD-SFC NoSubs
9	4	20	110	9	80.5	0.167	0.794	0.008	223.	163.	-5.2	0.0780	0.32	0.15	1.50	283.0	15.0	294.1	2.0	0	0.00	47.	1007.	2	NAD-SFC NoSubs
9	4	20	110	10	106.0	0.086	1.030	0.006	370.	63.	-1.0	0.0780	0.32	0.14	0.50	274.0	15.0	297.1	2.0	0	0.00	37.	1006.	2	NAD-SFC NoSubs
9	4	20	110	11	123.6	-9.000	-9.000	-9.000	537.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	299.9	2.0	0	0.00	28.	1005.	2	NAD-SFC NoSubs
9	4	20	110	12	132.4	-9.000	-9.000	-9.000	693.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	301.9	2.0	0	0.00	23.	1004.	2	NAD-SFC NoSubs
9	4	20	110	13	132.3	0.106	1.480	0.005	878.	83.	-1.0	0.1900	0.32	0.14	0.50	26.0	15.0	303.2	2.0	0	0.00	22.	1004.	2	NAD-SFC NoSubs

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 9  4 20 110 14   123.5  0.105  1.528  0.005 1035.   82.     -1.0  0.1900  0.32  0.14   0.50   16.0  15.0 304.2  2.0   0  0.00   22.  1003.    2 NAD-SFC NoSubs
 9  4 20 110 15   106.0  0.204  1.514  0.005 1172.  221.     -7.2  0.1900  0.32  0.15   1.50   13.0  15.0 304.8  2.0   0  0.00   23.  1002.    2 NAD-SFC NoSubs
 9  4 20 110 16    80.5 -9.000 -9.000 -9.000 1266. -999. -99999.0  0.0879  0.32  0.16   0.00    0.0  15.0 304.9  2.0   0  0.00   28.  1001.    2 NAD-SFC NoSubs
 9  4 20 110 17    47.7  0.363  1.205  0.005 1311.  525.    -89.4  0.1900  0.32  0.19   3.60   22.0  15.0 303.2  2.0   0  0.00   40.  1001.    2 NAD-SFC NoSubs
 9  4 20 110 18    11.5  0.385  0.751  0.005 1316.  574.   -445.4  0.1900  0.32  0.32   4.10   19.0  15.0 301.1  2.0   0  0.00   47.  1001.    2 NAD-SFC NoSubs
 9  4 20 110 19   -38.0  0.370 -9.000 -9.000 -999.  540.    118.5  0.1280  0.32  1.00   4.60   33.0  15.0 300.1  2.0   0  0.00   47.  1001.    2 NAD-SFC NoSubs
 9  4 20 110 20   -32.5  0.315 -9.000 -9.000 -999.  425.     85.7  0.1900  0.32  1.00   3.60   26.0  15.0 299.4  2.0   0  0.00   46.  1001.    2 NAD-SFC NoSubs
 9  4 20 110 21   -21.9  0.220 -9.000 -9.000 -999.  251.     43.2  0.0780  0.32  1.00   3.10  282.0  15.0 297.8  2.0   0  0.00   48.  1002.    2 NAD-SFC NoSubs
 9  4 20 110 22   -29.3  0.281 -9.000 -9.000 -999.  357.     67.5  0.0310  0.32  1.00   4.60  268.0  15.0 296.0  2.0   0  0.00   51.  1002.    2 NAD-SFC NoSubs
 9  4 20 110 23   -22.0  0.219 -9.000 -9.000 -999.  248.     43.0  0.0780  0.32  1.00   3.10  291.0  15.0 294.9  2.0   0  0.00   52.  1002.    2 NAD-SFC NoSubs
 9  4 20 110 24    -9.8  0.144 -9.000 -9.000 -999.  133.     27.3  0.0780  0.32  1.00   2.10  295.0  15.0 294.2  2.0   0  0.00   52.  1002.    2 NAD-SFC NoSubs
 9  4 21 111  1    -4.0  0.090 -9.000 -9.000 -999.   66.     16.5  0.0310  0.32  1.00   1.50  260.0  15.0 293.4  2.0   0  0.00   53.  1002.    2 NAD-SFC NoSubs
 9  4 21 111  2    -4.1  0.092 -9.000 -9.000 -999.   67.     16.8  0.0340  0.32  1.00   1.50  235.0  15.0 292.8  2.0   0  0.00   55.  1002.    2 NAD-SFC NoSubs
 9  4 21 111  3    -7.6  0.122 -9.000 -9.000 -999.  102.     21.2  0.0310  0.32  1.00   2.10  243.0  15.0 292.2  2.0   0  0.00   54.  1002.    2 NAD-SFC NoSubs
 9  4 21 111  4   -11.8  0.153 -9.000 -9.000 -999.  143.     27.0  0.0310  0.32  1.00   2.60  266.0  15.0 292.2  2.0   0  0.00   53.  1002.    2 NAD-SFC NoSubs
 9  4 21 111  5   -15.3  0.181 -9.000 -9.000 -999.  186.     34.9  0.0780  0.32  1.00   2.60  288.0  15.0 291.8  2.0   0  0.00   54.  1003.    2 NAD-SFC NoSubs
 9  4 21 111  6   -21.8  0.220 -9.000 -9.000 -999.  247.     43.4  0.0780  0.32  0.65   3.10  286.0  15.0 291.1  2.0   0  0.00   57.  1003.    2 NAD-SFC NoSubs
 9  4 21 111  7    13.5  0.218  0.262  0.007   47.  244.    -68.4  0.0780  0.32  0.29   2.60  287.0  15.0 290.9  2.0   0  0.00   58.  1004.    2 NAD-SFC NoSubs
 9  4 21 111  8    49.5  0.237  0.543  0.007  116.  277.    -24.2  0.0780  0.32  0.19   2.60  299.0  15.0 293.2  2.0   0  0.00   46.  1004.    2 NAD-SFC NoSubs
 9  4 21 111  9    81.2  0.167  0.766  0.008  198.  165.     -5.1  0.0780  0.32  0.15   1.50  287.0  15.0 294.8  2.0   0  0.00   43.  1003.    2 NAD-SFC NoSubs
 9  4 21 111 10   106.5  0.132  1.009  0.006  345.  115.     -1.9  0.0780  0.32  0.14   1.00  284.0  15.0 297.0  2.0   0  0.00   39.  1003.    2 NAD-SFC NoSubs
 9  4 21 111 11   123.9  0.074  1.220  0.005  525.   49.     -1.0  0.0310  0.32  0.14   0.50  260.0  15.0 299.4  2.0   0  0.00   34.  1003.    2 NAD-SFC NoSubs
 9  4 21 111 12   132.7 -9.000 -9.000 -9.000  696. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0 301.6  2.0   0  0.00   28.  1002.    2 NAD-SFC NoSubs
 9  4 21 111 13   132.7 -9.000 -9.000 -9.000  847. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0 303.2  2.0   0  0.00   24.  1001.    2 NAD-SFC NoSubs
 9  4 21 111 14   123.9  0.097  1.496  0.005  966.   73.     -1.0  0.1280  0.32  0.14   0.50   58.0  15.0 304.2  2.0   0  0.00   23.  1001.    2 NAD-SFC NoSubs
 9  4 21 111 15   106.3  0.131  1.470  0.005 1066.  114.     -1.9  0.0760  0.32  0.15   1.00   63.0  15.0 304.8  2.0   0  0.00   23.  1000.    2 NAD-SFC NoSubs
 9  4 21 111 16    80.6  0.231  1.368  0.005 1134.  267.    -13.7  0.1280  0.32  0.16   2.10   59.0  15.0 304.2  2.0   0  0.00   26.  1000.    2 NAD-SFC NoSubs
 9  4 21 111 17    48.2  0.236  1.165  0.005 1171.  275.    -24.3  0.0760  0.32  0.19   2.60   74.0  15.0 303.4  2.0   0  0.00   34.  1000.    2 NAD-SFC NoSubs
 9  4 21 111 18    12.3  0.181  0.740  0.005 1178.  185.    -43.0  0.0760  0.32  0.32   2.10   74.0  15.0 302.2  2.0   0  0.00   38.  1000.    2 NAD-SFC NoSubs
 9  4 21 111 19     2.4 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  0.73   0.00    0.0  15.0 301.1  2.0   0  0.00   41.  1000.    2 NAD-SFC NoSubs
 9  4 21 111 20    -7.5  0.122 -9.000 -9.000 -999.  102.     21.5  0.0310  0.32  1.00   2.10  248.0  15.0 299.8  2.0   0  0.00   47.  1000.    2 NAD-SFC NoSubs
 9  4 21 111 21   -22.4  0.217 -9.000 -9.000 -999.  243.     40.7  0.0310  0.32  1.00   3.60  269.0  15.0 298.9  2.0   0  0.00   48.  1000.    2 NAD-SFC NoSubs
 9  4 21 111 22   -31.4  0.302 -9.000 -9.000 -999.  399.     78.6  0.1620  0.32  1.00   3.60  300.0  15.0 297.4  2.0   0  0.00   50.  1000.    2 NAD-SFC NoSubs
 9  4 21 111 23   -32.7  0.314 -9.000 -9.000 -999.  422.     84.4  0.1880  0.32  1.00   3.60  339.0  15.0 296.4  2.0   0  0.00   51.  1000.    2 NAD-SFC NoSubs
 9  4 21 111 24   -32.8  0.314 -9.000 -9.000 -999.  422.     84.1  0.1880  0.32  1.00   3.60  337.0  15.0 295.4  2.0   0  0.00   53.  1000.    2 NAD-SFC NoSubs
 9  4 22 112  1   -31.7  0.302 -9.000 -9.000 -999.  399.     77.8  0.1620  0.32  1.00   3.60  320.0  15.0 294.4  2.0   0  0.00   54.  1000.    2 NAD-SFC NoSubs
 9  4 22 112  2   -12.6  0.170 -9.000 -9.000 -999.  179.     34.5  0.1620  0.32  1.00   2.10  320.0  15.0 293.8  2.0   0  0.00   54.  1000.    2 NAD-SFC NoSubs
 9  4 22 112  3   -18.1  0.202 -9.000 -9.000 -999.  218.     40.9  0.1280  0.32  1.00   2.60   46.0  15.0 293.2  2.0   0  0.00   55.  1001.    2 NAD-SFC NoSubs
 9  4 22 112  4   -13.5  0.177 -9.000 -9.000 -999.  178.     36.5  0.1900  0.32  1.00   2.10   27.0  15.0 292.8  2.0   0  0.00   57.  1001.    2 NAD-SFC NoSubs
 9  4 22 112  5    -1.4  0.080 -9.000 -9.000 -999.   59.     31.1  0.1880  0.32  1.00   0.50  350.0  15.0 292.4  2.0   0  0.00   58.  1001.    2 NAD-SFC NoSubs
 9  4 22 112  6    -1.0  0.066 -9.000 -9.000 -999.   40.     26.4  0.0340  0.32  0.64   0.50  217.0  15.0 291.8  2.0   0  0.00   59.  1001.    2 NAD-SFC NoSubs
 9  4 22 112  7    14.5  0.122  0.341  0.013   97.  102.    -11.1  0.0310  0.32  0.29   1.50  245.0  15.0 292.4  2.0   0  0.00   58.  1002.    2 NAD-SFC NoSubs
 9  4 22 112  8    50.4  0.103  0.635  0.012  181.   80.     -2.0  0.0310  0.32  0.18   1.00  241.0  15.0 294.4  2.0   0  0.00   52.  1002.    2 NAD-SFC NoSubs
 9  4 22 112  9    82.2  0.073  0.862  0.009  277.   48.     -1.0  0.0380  0.32  0.15   0.50  176.0  15.0 296.4  2.0   0  0.00   46.  1001.    2 NAD-SFC NoSubs
 9  4 22 112 10   107.3  0.117  1.037  0.007  371.   96.     -1.3  0.0380  0.32  0.14   1.00  174.0  15.0 298.1  2.0   0  0.00   42.  1001.    2 NAD-SFC NoSubs
 9  4 22 112 11   124.5  0.119  1.201  0.006  496.   98.     -1.2  0.0380  0.32  0.14   1.00  169.0  15.0 299.8  2.0   0  0.00   37.  1000.    2 NAD-SFC NoSubs
 9  4 22 112 12   133.0  0.078  1.317  0.005  613.   53.     -1.0  0.0380  0.32  0.14   0.50  151.0  15.0 301.2  2.0   0  0.00   34.   999.    2 NAD-SFC NoSubs
 9  4 22 112 13   132.9 -9.000 -9.000 -9.000  763. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0 302.6  2.0   0  0.00   32.   999.    2 NAD-SFC NoSubs
 9  4 22 112 14   124.0  0.106  1.471  0.005  915.   82.     -1.0  0.1900  0.32  0.14   0.50    4.0  15.0 303.5  2.0   0  0.00   29.   998.    2 NAD-SFC NoSubs
 9  4 22 112 15   106.5 -9.000 -9.000 -9.000 1019. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0 304.2  2.0   0  0.00   27.   997.    2 NAD-SFC NoSubs
 9  4 22 112 16    81.2  0.198  1.353  0.005 1086.  211.     -8.5  0.1880  0.32  0.16   1.50  341.0  15.0 304.8  2.0   0  0.00   25.   997.    2 NAD-SFC NoSubs
 9  4 22 112 17    48.7  0.237  1.154  0.005 1121.  277.    -24.3  0.0780  0.32  0.19   2.60  289.0  15.0 303.8  2.0   0  0.00   36.   997.    2 NAD-SFC NoSubs
 9  4 22 112 18    12.1  0.396  0.726  0.005 1121.  599.   -456.6  0.0780  0.32  0.32   5.10  273.0  15.0 300.5  2.0   0  0.00   48.   998.    2 NAD-SFC NoSubs
 9  4 22 112 19   -29.1  0.281 -9.000 -9.000 -999.  365.     67.7  0.0310  0.32  0.72   4.60  249.0  15.0 297.0  2.0   0  0.00   55.   999.    2 NAD-SFC NoSubs
 9  4 22 112 20   -22.7  0.217 -9.000 -9.000 -999.  244.     40.1  0.0310  0.32  1.00   3.60  264.0  15.0 294.9  2.0   0  0.00   58.   999.    2 NAD-SFC NoSubs
 9  4 22 112 21   -19.7  0.214 -9.000 -9.000 -999.  238.     44.3  0.1620  0.32  1.00   2.60  306.0  15.0 294.0  2.0   0  0.00   58.   999.    2 NAD-SFC NoSubs
 9  4 22 112 22   -28.3  0.269 -9.000 -9.000 -999.  334.     61.3  0.1900  0.32  1.00   3.10    8.0  15.0 293.4  2.0   0  0.00   59.  1000.    2 NAD-SFC NoSubs
 9  4 22 112 23   -30.2  0.286 -9.000 -9.000 -999.  367.     69.2  0.1280  0.32  1.00   3.60   34.0  15.0 292.5  2.0   0  0.00   63.  1001.    2 NAD-SFC NoSubs
 9  4 22 112 24   -30.3  0.286 -9.000 -9.000 -999.  367.     68.9  0.1280  0.32  1.00   3.60   37.0  15.0 291.6  2.0   0  0.00   67.  1001.    2 NAD-SFC NoSubs
 9  4 23 113  1   -28.5  0.269 -9.000 -9.000 -999.  335.     60.7  0.1900  0.32  1.00   3.10   16.0  15.0 290.9  2.0   0  0.00   68.  1001.    2 NAD-SFC NoSubs
 9  4 23 113  2   -13.5  0.176 -9.000 -9.000 -999.  181.     36.1  0.1880  0.32  1.00   2.10  360.0  15.0 290.1  2.0   0  0.00   69.  1001.    2 NAD-SFC NoSubs
 9  4 23 113  3    -3.3  0.093 -9.000 -9.000 -999.   71.     21.4  0.1620  0.32  1.00   1.00  320.0  15.0 289.4  2.0   0  0.00   70.  1001.    2 NAD-SFC NoSubs
 9  4 23 113  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00   0.00    0.0  15.0 288.9  2.0   0  0.00   70.  1001.    2 NAD-SFC NoSubs
 9  4 23 113  5    -1.5  0.080 -9.000 -9.000 -999.   54.     31.2  0.1880  0.32  1.00   0.50  350.0  15.0 288.5  2.0   0  0.00   70.  1001.    2 NAD-SFC NoSubs
 9  4 23 113  6    -1.4  0.078 -9.000 -9.000 -999.   53.     30.7  0.1880  0.32  0.63   0.50  341.0  15.0 288.2  2.0   0  0.00   70.  1001.    2 NAD-SFC NoSubs
 9  4 23 113  7    14.4  0.106  0.369  0.010  124.   82.     -7.3  0.0780  0.32  0.29   1.00  290.0  15.0 288.5  2.0   0  0.00   67.  1002.    2 NAD-SFC NoSubs
 9  4 23 113  8    50.1  0.238  0.700  0.010  245.  278.    -23.9  0.0780  0.32  0.18   2.60  285.0  15.0 289.8  2.0   0  0.00   59.  1002.    2 NAD-SFC NoSubs
 9  4 23 113  9    81.6  0.109  0.919  0.010  340.   98.     -1.4  0.0310  0.32  0.15   1.00  268.0  15.0 291.4  2.0   0  0.00   54.  1002.    2 NAD-SFC NoSubs
 9  4 23 113 10   106.5 -9.000 -9.000 -9.000  444. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0 293.2  2.0   0  0.00   48.  1002.    2 NAD-SFC NoSubs
 9  4 23 113 11   123.6 -9.000 -9.000 -9.000  551. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0 295.1  2.0   0  0.00   42.  1001.    2 NAD-SFC NoSubs
 9  4 23 113 12   132.1 -9.000 -9.000 -9.000  647. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0 296.9  2.0   0  0.00   37.  1000.    2 NAD-SFC NoSubs
 9  4 23 113 13   131.9  0.106  1.401  0.007  743.   83.     -1.0  0.1880  0.32  0.14   0.50  332.0  15.0 298.2  2.0   0  0.00   33.   999.    2 NAD-SFC NoSubs
 9  4 23 113 14   123.0  0.160  1.417  0.007  824.  154.     -3.0  0.1880  0.32  0.14   1.00  337.0  15.0 299.2  2.0   0  0.00   29.   999.    2 NAD-SFC NoSubs
 9  4 23 113 15   105.4  0.204  1.380  0.007  889.  221.     -7.1  0.1880  0.32  0.14   1.50  351.0  15.0 299.8  2.0   0  0.00   27.   998.    2 NAD-SFC NoSubs
 9  4 23 113 16    79.9  0.249  1.280  0.006  934.  298.    -17.2  0.1880  0.32  0.16   2.10  339.0  15.0 300.0  2.0   0  0.00   27.   998.    2 NAD-SFC NoSubs
 9  4 23 113 17    47.8  0.237  1.088  0.006  959.  278.    -24.9  0.1880  0.32  0.19   2.10  331.0  15.0 299.6  2.0   0  0.00   32.   998.    2 NAD-SFC NoSubs
 9  4 23 113 18    12.0  0.287  0.687  0.006  963.  370.   -176.8  0.0780  0.32  0.31   3.60  289.0  15.0 298.5  2.0   0  0.00   40.   998.    2 NAD-SFC NoSubs
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 9  4 23 113 19  -32.6  0.313 -9.000 -9.000 -999.  419.    83.4  0.0310  0.32  0.71   5.10  266.0  15.0  294.8   2.0    0   0.00   52.   999.     2 NAD-SFC NoSubs
 9  4 23 113 20  -39.1  0.370 -9.000 -9.000 -999.  540.   115.5  0.0780  0.32  1.00   5.10  275.0  15.0  291.8   2.0    0   0.00   61.  1000.     2 NAD-SFC NoSubs
 9  4 23 113 21  -33.2  0.313 -9.000 -9.000 -999.  421.    81.9  0.0310  0.32  1.00   5.10  257.0  15.0  290.1   2.0    0   0.00   66.  1000.     2 NAD-SFC NoSubs
 9  4 23 113 22  -35.5  0.332 -9.000 -9.000 -999.  460.    92.2  0.0780  0.32  1.00   4.60  270.0  15.0  289.0   2.0    0   0.00   69.  1001.     2 NAD-SFC NoSubs
 9  4 23 113 23  -26.9  0.257 -9.000 -9.000 -999.  316.    56.6  0.0780  0.32  1.00   3.60  272.0  15.0  288.1   2.0    0   0.00   70.  1001.     3 NAD-SFC NoSubs
 9  4 23 113 24   -1.2  0.072 -9.000 -9.000 -999.   98.    28.7  0.0780  0.32  1.00   0.50  290.0  15.0  287.8   2.0    0   0.00   69.  1001.     3 NAD-SFC NoSubs
 9  4 24 114  1   -9.7  0.143 -9.000 -9.000 -999.  130.    27.2  0.0760  0.32  1.00   2.10   84.0  15.0  287.8   2.0    0   0.00   69.  1002.     3 NAD-SFC NoSubs
 9  4 24 114  2   -8.6  0.133 -9.000 -9.000 -999.  116.    24.3  0.0510  0.32  1.00   2.10   92.0  15.0  287.8   2.0    0   0.00   69.  1002.     3 NAD-SFC NoSubs
 9  4 24 114  3   -2.4  0.079 -9.000 -9.000 -999.   53.    18.1  0.0460  0.32  1.00   1.00  131.0  15.0  287.4   2.0    0   0.00   68.  1002.     3 NAD-SFC NoSubs
 9  4 24 114  4   -2.3  0.076 -9.000 -9.000 -999.   50.    17.4  0.0330  0.32  1.00   1.00  206.0  15.0  287.2   2.0    0   0.00   67.  1003.     3 NAD-SFC NoSubs
 9  4 24 114  5   -2.3  0.076 -9.000 -9.000 -999.   50.    17.4  0.0340  0.32  1.00   1.00  227.0  15.0  286.8   2.0    0   0.00   68.  1003.     3 NAD-SFC NoSubs
 9  4 24 114  6   -2.2  0.074 -9.000 -9.000 -999.   49.    17.1  0.0310  0.32  0.62   1.00  241.0  15.0  286.5   2.0    0   0.00   68.  1004.     2 NAD-SFC NoSubs
 9  4 24 114  7   14.9  0.254  0.452  0.006  222.  308.   -98.9  0.0780  0.32  0.28   3.10  276.0  15.0  287.2   2.0    0   0.00   65.  1004.     2 NAD-SFC NoSubs
 9  4 24 114  8   50.5  0.159  0.773  0.006  327.  156.    -7.1  0.0780  0.32  0.18   1.50  291.0  15.0  288.9   2.0    0   0.00   58.  1004.     2 NAD-SFC NoSubs
 9  4 24 114  9   81.9  0.083  1.026  0.006  473.   60.    -1.0  0.0780  0.32  0.15   0.50  286.0  15.0  290.2   2.0    0   0.00   52.  1004.     2 NAD-SFC NoSubs
 9  4 24 114 10  106.7 -9.000 -9.000 -9.000  637. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  291.4   2.0    0   0.00   48.  1004.     3 NAD-SFC NoSubs
 9  4 24 114 11  123.4 -9.000 -9.000 -9.000  765. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  292.6   2.0    0   0.00   43.  1004.     3 NAD-SFC NoSubs
 9  4 24 114 12  131.5  0.089  1.478  0.005  879.   64.    -1.0  0.0780  0.32  0.14   0.50  293.0  15.0  293.8   2.0    0   0.00   39.  1003.     3 NAD-SFC NoSubs
 9  4 24 114 13  131.1  0.103  1.534  0.005  987.   79.    -1.0  0.1620  0.32  0.14   0.50  319.0  15.0  294.8   2.0    0   0.00   36.  1003.     3 NAD-SFC NoSubs
 9  4 24 114 14  122.2  0.201  1.570  0.007 1134.  216.    -5.9  0.1620  0.32  0.14   1.50  322.0  15.0  295.4   2.0    0   0.00   34.  1002.     3 NAD-SFC NoSubs
 9  4 24 114 15  104.6  0.330  1.538  0.008 1245.  454.   -30.6  0.1620  0.32  0.14   3.10  318.0  15.0  295.5   2.0    0   0.00   34.  1002.     3 NAD-SFC NoSubs
 9  4 24 114 16   79.2  0.457  1.430  0.009 1320.  741.  -107.7  0.1880  0.32  0.16   4.60  330.0  15.0  295.0   2.0    0   0.00   37.  1002.     3 NAD-SFC NoSubs
 9  4 24 114 17   47.3  0.362  1.212  0.009 1348.  529.   -89.6  0.1880  0.32  0.19   3.60  342.0  15.0  294.1   2.0    0   0.00   48.  1002.     3 NAD-SFC NoSubs
 9  4 24 114 18   11.9  0.341  0.767  0.009 1350.  479.  -298.6  0.1880  0.32  0.31   3.60  342.0  15.0  293.2   2.0    0   0.00   54.  1003.     3 NAD-SFC NoSubs
 9  4 24 114 19  -37.0  0.359 -9.000 -9.000 -999.  517.   112.5  0.1880  0.32  0.70   4.10  341.0  15.0  292.2   2.0    0   0.00   55.  1004.     3 NAD-SFC NoSubs
 9  4 24 114 20  -31.3  0.302 -9.000 -9.000 -999.  401.    79.0  0.1620  0.32  1.00   3.60  329.0  15.0  291.2   2.0    0   0.00   57.  1004.     3 NAD-SFC NoSubs
 9  4 24 114 21  -31.5  0.295 -9.000 -9.000 -999.  384.    72.8  0.0780  0.32  1.00   4.10  298.0  15.0  289.9   2.0    0   0.00   59.  1005.     2 NAD-SFC NoSubs
 9  4 24 114 22  -42.1  0.390 -9.000 -9.000 -999.  585.   126.5  0.1620  0.32  1.00   4.60  300.0  15.0  287.5   2.0    0   0.00   60.  1006.     2 NAD-SFC NoSubs
 9  4 24 114 23  -37.6  0.346 -9.000 -9.000 -999.  490.    98.9  0.1620  0.32  1.00   4.10  305.0  15.0  285.8   2.0    0   0.00   58.  1007.     2 NAD-SFC NoSubs
 9  4 24 114 24  -33.0  0.302 -9.000 -9.000 -999.  400.    75.1  0.1620  0.32  1.00   3.60  300.0  15.0  284.5   2.0    0   0.00   60.  1007.     2 NAD-SFC NoSubs
 9  4 25 115  1  -33.1  0.302 -9.000 -9.000 -999.  398.    74.8  0.1620  0.32  1.00   3.60  302.0  15.0  283.8   2.0    0   0.00   63.  1008.     2 NAD-SFC NoSubs
 9  4 25 115  2  -22.5  0.219 -9.000 -9.000 -999.  249.    42.0  0.0780  0.32  1.00   3.10  298.0  15.0  282.9   2.0    0   0.00   65.  1008.     2 NAD-SFC NoSubs
 9  4 25 115  3  -22.6  0.219 -9.000 -9.000 -999.  246.    41.9  0.0780  0.32  1.00   3.10  298.0  15.0  282.2   2.0    0   0.00   67.  1009.     2 NAD-SFC NoSubs
 9  4 25 115  4  -15.7  0.181 -9.000 -9.000 -999.  185.    34.2  0.0780  0.32  1.00   2.60  296.0  15.0  281.9   2.0    0   0.00   69.  1009.     2 NAD-SFC NoSubs
 9  4 25 115  5  -15.7  0.181 -9.000 -9.000 -999.  185.    34.1  0.0780  0.32  1.00   2.60  292.0  15.0  281.5   2.0    0   0.00   71.  1010.     2 NAD-SFC NoSubs
 9  4 25 115  6   -5.0  0.104 -9.000 -9.000 -999.   82.    20.2  0.0780  0.32  0.60   1.50  284.0  15.0  281.2   2.0    0   0.00   72.  1010.     2 NAD-SFC NoSubs
 9  4 25 115  7   14.9  0.344  0.334  0.005   90.  484.  -245.4  0.1880  0.32  0.28   3.60  338.0  15.0  283.1   2.0    0   0.00   62.  1011.     2 NAD-SFC NoSubs
 9  4 25 115  8   50.5  0.321  0.742  0.005  292.  438.   -59.3  0.1880  0.32  0.18   3.10  350.0  15.0  284.8   2.0    0   0.00   53.  1011.     2 NAD-SFC NoSubs
 9  4 25 115  9   81.7  0.198  1.000  0.005  442.  220.    -8.5  0.1880  0.32  0.15   1.50  350.0  15.0  286.0   2.0    0   0.00   45.  1011.     2 NAD-SFC NoSubs
 9  4 25 115 10  106.4  0.157  1.186  0.005  566.  149.    -3.3  0.1880  0.32  0.14   1.00  344.0  15.0  287.2   2.0    0   0.00   40.  1010.     3 NAD-SFC NoSubs
 9  4 25 115 11  123.0  0.160  1.341  0.005  708.  153.    -3.0  0.1880  0.32  0.14   1.00  331.0  15.0  288.6   2.0    0   0.00   35.  1010.     3 NAD-SFC NoSubs
 9  4 25 115 12  131.0  0.202  1.488  0.005  905.  218.    -5.7  0.1620  0.32  0.14   1.50  320.0  15.0  289.9   2.0    0   0.00   32.  1009.     3 NAD-SFC NoSubs
 9  4 25 115 13  130.8  0.295  1.558  0.005 1041.  384.   -17.6  0.1620  0.32  0.14   2.60  323.0  15.0  291.0   2.0    0   0.00   29.  1008.     2 NAD-SFC NoSubs
 9  4 25 115 14  121.8  0.426  1.568  0.005 1139.  668.   -57.1  0.1880  0.32  0.14   4.10  335.0  15.0  291.8   2.0    0   0.00   28.  1007.     2 NAD-SFC NoSubs
 9  4 25 115 15  104.1  0.506  1.521  0.005 1216.  863.  -111.7  0.1880  0.32  0.14   5.10  341.0  15.0  292.2   2.0    0   0.00   28.  1007.     2 NAD-SFC NoSubs
 9  4 25 115 16   78.6  0.499  1.405  0.005 1270.  846.  -142.0  0.1880  0.32  0.15   5.10  342.0  15.0  292.0   2.0    0   0.00   31.  1007.     2 NAD-SFC NoSubs
 9  4 25 115 17   46.5  0.404  1.190  0.005 1301.  623.  -126.8  0.1880  0.32  0.19   4.10  339.0  15.0  291.8   2.0    0   0.00   36.  1006.     2 NAD-SFC NoSubs
 9  4 25 115 18   10.9  0.297  0.735  0.005 1306.  397.  -216.6  0.1880  0.32  0.31   3.10  354.0  15.0  290.9   2.0    0   0.00   45.  1007.     2 NAD-SFC NoSubs
 9  4 25 115 19  -28.5  0.268 -9.000 -9.000 -999.  334.    60.6  0.1880  0.32  0.69   3.10  354.0  15.0  290.1   2.0    0   0.00   45.  1007.     2 NAD-SFC NoSubs
 9  4 25 115 20  -13.6  0.176 -9.000 -9.000 -999.  181.    36.1  0.1880  0.32  1.00   2.10  350.0  15.0  289.1   2.0    0   0.00   47.  1007.     2 NAD-SFC NoSubs
 9  4 25 115 21   -1.4  0.079 -9.000 -9.000 -999.   59.    30.9  0.1620  0.32  1.00   0.50  301.0  15.0  288.0   2.0    0   0.00   50.  1007.     2 NAD-SFC NoSubs
 9  4 25 115 22   -4.2  0.092 -9.000 -9.000 -999.   67.    16.6  0.0330  0.32  1.00   1.50  196.0  15.0  286.4   2.0    0   0.00   56.  1007.     2 NAD-SFC NoSubs
 9  4 25 115 23  -12.2  0.154 -9.000 -9.000 -999.  145.    27.0  0.0330  0.32  1.00   2.60  197.0  15.0  284.5   2.0    0   0.00   62.  1007.     2 NAD-SFC NoSubs
 9  4 25 115 24   -7.8  0.123 -9.000 -9.000 -999.  103.    21.2  0.0330  0.32  1.00   2.10  194.0  15.0  283.8   2.0    0   0.00   65.  1007.     2 NAD-SFC NoSubs
 9  4 26 116  1   -2.3  0.077 -9.000 -9.000 -999.   52.    17.5  0.0330  0.32  1.00   1.00  189.0  15.0  283.1   2.0    0   0.00   66.  1007.     2 NAD-SFC NoSubs
 9  4 26 116  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00   0.00    0.0  15.0  282.6   2.0    0   0.00   68.  1007.     2 NAD-SFC NoSubs
 9  4 26 116  3   -1.4  0.079 -9.000 -9.000 -999.   54.    31.1  0.1620  0.32  1.00   0.50  328.0  15.0  282.0   2.0    0   0.00   70.  1007.     2 NAD-SFC NoSubs
 9  4 26 116  4   -3.4  0.093 -9.000 -9.000 -999.   69.    21.5  0.1620  0.32  1.00   1.00  322.0  15.0  281.5   2.0    0   0.00   72.  1007.     2 NAD-SFC NoSubs
 9  4 26 116  5   -3.4  0.093 -9.000 -9.000 -999.   69.    21.5  0.1620  0.32  1.00   1.00  320.0  15.0  281.1   2.0    0   0.00   74.  1008.     2 NAD-SFC NoSubs
 9  4 26 116  6   -3.2  0.091 -9.000 -9.000 -999.   66.    21.3  0.1620  0.32  0.59   1.00  312.0  15.0  280.8   2.0    0   0.00   77.  1008.     2 NAD-SFC NoSubs
 9  4 26 116  7   15.4  0.168  0.304  0.009   65.  165.   -27.5  0.1880  0.32  0.28   1.50  345.0  15.0  282.1   2.0    0   0.00   76.  1008.     2 NAD-SFC NoSubs
 9  4 26 116  8   51.0 -9.000 -9.000 -9.000  198. -999. -99999.0  0.0879  0.32  0.18   0.00    0.0  15.0  284.1   2.0    0   0.00   70.  1008.     2 NAD-SFC NoSubs
 9  4 26 116  9   82.3 -9.000 -9.000 -9.000  314. -999. -99999.0  0.0879  0.32  0.15   0.00    0.0  15.0  286.4   2.0    0   0.00   59.  1008.     2 NAD-SFC NoSubs
 9  4 26 116 10  107.0 -9.000 -9.000 -9.000  441. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  288.4   2.0    0   0.00   51.  1007.     2 NAD-SFC NoSubs
 9  4 26 116 11  123.8 -9.000 -9.000 -9.000  599. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  290.2   2.0    0   0.00   43.  1006.     2 NAD-SFC NoSubs
 9  4 26 116 12  132.0 -9.000 -9.000 -9.000  743. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  291.8   2.0    0   0.00   39.  1005.     2 NAD-SFC NoSubs
 9  4 26 116 13  131.6 -9.000 -9.000 -9.000  869. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  293.0   2.0    0   0.00   36.  1004.     2 NAD-SFC NoSubs
 9  4 26 116 14  122.7  0.102  1.494  0.008  973.   78.    -1.0  0.1620  0.32  0.14   0.50  314.0  15.0  294.1   2.0    0   0.00   33.  1003.     2 NAD-SFC NoSubs
 9  4 26 116 15  105.0  0.204  1.446  0.008 1031.  220.    -7.2  0.1880  0.32  0.14   1.50  340.0  15.0  294.8   2.0    0   0.00   32.  1002.     2 NAD-SFC NoSubs
 9  4 26 116 16   79.6  0.291  1.336  0.008 1072.  376.   -27.6  0.1880  0.32  0.15   2.60  354.0  15.0  294.9   2.0    0   0.00   31.  1002.     2 NAD-SFC NoSubs
 9  4 26 116 17   47.7  0.321  1.134  0.008 1095.  436.   -62.0  0.1900  0.32  0.19   3.10    5.0  15.0  294.8   2.0    0   0.00   34.  1002.     2 NAD-SFC NoSubs
 9  4 26 116 18   12.0  0.299  0.717  0.008 1100.  393.  -200.1  0.1900  0.32  0.31   3.10   15.0  15.0  293.8   2.0    0   0.00   44.  1002.     2 NAD-SFC NoSubs
 9  4 26 116 19  -28.1  0.269 -9.000 -9.000 -999.  335.    61.8  0.1900  0.32  0.69   3.10    6.0  15.0  292.9   2.0    0   0.00   45.  1002.     2 NAD-SFC NoSubs
 9  4 26 116 20  -13.5  0.176 -9.000 -9.000 -999.  181.    36.3  0.1880  0.32  1.00   2.10  346.0  15.0  291.8   2.0    0   0.00   49.  1002.     2 NAD-SFC NoSubs
 9  4 26 116 21   -5.1  0.104 -9.000 -9.000 -999.   82.    19.9  0.0780  0.32  1.00   1.50  278.0  15.0  290.2   2.0    0   0.00   54.  1003.     2 NAD-SFC NoSubs
 9  4 26 116 22  -22.7  0.217 -9.000 -9.000 -999.  243.    40.2  0.0310  0.32  1.00   3.60  247.0  15.0  288.2   2.0    0   0.00   62.  1003.     3 NAD-SFC NoSubs
 9  4 26 116 23  -16.9  0.185 -9.000 -9.000 -999.  191.    33.3  0.0310  0.32  1.00   3.10  247.0  15.0  286.8   2.0    0   0.00   69.  1003.     3 NAD-SFC NoSubs
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9	4	26	116	24	-7.6	0.122	-9.000	-9.000	-999.	103.	21.3	0.0310	0.32	1.00	2.10	258.0	15.0	286.0	2.0	0	0.00	71.	1003.	3	NAD-SFC	NoSubs
9	4	27	117	1	-7.6	0.122	-9.000	-9.000	-999.	102.	21.2	0.0310	0.32	1.00	2.10	259.0	15.0	285.2	2.0	0	0.00	74.	1003.	3	NAD-SFC	NoSubs
9	4	27	117	2	-4.0	0.091	-9.000	-9.000	-999.	65.	16.5	0.0310	0.32	1.00	1.50	260.0	15.0	284.8	2.0	0	0.00	75.	1004.	3	NAD-SFC	NoSubs
9	4	27	117	3	-9.8	0.144	-9.000	-9.000	-999.	131.	27.2	0.0780	0.32	1.00	2.10	279.0	15.0	284.2	2.0	0	0.00	77.	1004.	3	NAD-SFC	NoSubs
9	4	27	117	4	-9.8	0.144	-9.000	-9.000	-999.	131.	27.1	0.0780	0.32	1.00	2.10	290.0	15.0	283.6	2.0	0	0.00	79.	1004.	3	NAD-SFC	NoSubs
9	4	27	117	5	-9.9	0.144	-9.000	-9.000	-999.	131.	27.1	0.0780	0.32	1.00	2.10	297.0	15.0	283.1	2.0	0	0.00	80.	1004.	3	NAD-SFC	NoSubs
9	4	27	117	6	-12.1	0.170	-9.000	-9.000	-999.	169.	36.7	0.1620	0.32	0.58	2.10	311.0	15.0	282.6	2.0	0	0.00	82.	1005.	3	NAD-SFC	NoSubs
9	4	27	117	7	17.1	0.294	0.353	0.006	92.	382.	-132.8	0.1620	0.32	0.27	3.10	329.0	15.0	283.4	2.0	0	0.00	76.	1005.	3	NAD-SFC	NoSubs
9	4	27	117	8	52.3	0.239	0.685	0.007	220.	282.	-23.5	0.1880	0.32	0.18	2.10	337.0	15.0	285.0	2.0	0	0.00	63.	1005.	3	NAD-SFC	NoSubs
9	4	27	117	9	83.1	0.147	0.921	0.006	337.	139.	-3.5	0.1620	0.32	0.15	1.00	325.0	15.0	286.6	2.0	0	0.00	55.	1005.	3	NAD-SFC	NoSubs
9	4	27	117	10	107.4	-9.000	-9.000	-9.000	473.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	288.1	2.0	0	0.00	50.	1005.	3	NAD-SFC	NoSubs
9	4	27	117	11	124.0	-9.000	-9.000	-9.000	615.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	289.8	2.0	0	0.00	46.	1004.	3	NAD-SFC	NoSubs
9	4	27	117	12	132.0	-9.000	-9.000	-9.000	787.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	291.2	2.0	0	0.00	43.	1004.	3	NAD-SFC	NoSubs
9	4	27	117	13	131.6	-9.000	-9.000	-9.000	950.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	292.4	2.0	0	0.00	40.	1003.	3	NAD-SFC	NoSubs
9	4	27	117	14	122.7	0.102	1.530	0.007	1044.	78.	-1.0	0.1620	0.32	0.14	0.50	306.0	15.0	293.4	2.0	0	0.00	37.	1002.	3	NAD-SFC	NoSubs
9	4	27	117	15	105.3	0.100	1.484	0.008	1111.	76.	-1.0	0.1620	0.32	0.14	0.50	320.0	15.0	294.1	2.0	0	0.00	34.	1002.	3	NAD-SFC	NoSubs
9	4	27	117	16	80.2	0.167	1.375	0.008	1161.	163.	-5.2	0.0780	0.32	0.15	1.50	298.0	15.0	294.6	2.0	0	0.00	33.	1002.	3	NAD-SFC	NoSubs
9	4	27	117	17	48.5	0.294	1.173	0.008	1188.	384.	-47.0	0.0310	0.32	0.19	4.10	268.0	15.0	294.2	2.0	0	0.00	38.	1002.	3	NAD-SFC	NoSubs
9	4	27	117	18	12.9	0.340	0.755	0.008	1190.	475.	-271.7	0.0310	0.32	0.30	5.10	264.0	15.0	291.9	2.0	0	0.00	54.	1003.	3	NAD-SFC	NoSubs
9	4	27	117	19	-39.5	0.383	-9.000	-9.000	-999.	569.	127.6	0.0310	0.32	0.68	6.20	256.0	15.0	288.6	2.0	0	0.00	65.	1003.	3	NAD-SFC	NoSubs
9	4	27	117	20	-43.7	0.415	-9.000	-9.000	-999.	642.	146.8	0.0310	0.32	1.00	6.70	269.0	15.0	286.9	2.0	0	0.00	70.	1004.	3	NAD-SFC	NoSubs
9	4	27	117	21	-42.4	0.416	-9.000	-9.000	-999.	643.	152.1	0.0780	0.32	1.00	5.70	276.0	15.0	285.8	2.0	0	0.00	74.	1005.	4	NAD-SFC	NoSubs
9	4	27	117	22	-30.2	0.295	-9.000	-9.000	-999.	394.	76.3	0.0780	0.32	1.00	4.10	277.0	15.0	284.8	2.0	0	0.00	78.	1006.	4	NAD-SFC	NoSubs
9	4	27	117	23	-26.4	0.257	-9.000	-9.000	-999.	314.	58.0	0.0780	0.32	1.00	3.60	288.0	15.0	284.5	2.0	0	0.00	77.	1007.	4	NAD-SFC	NoSubs
9	4	27	117	24	-21.3	0.220	-9.000	-9.000	-999.	248.	44.9	0.0780	0.32	1.00	3.10	289.0	15.0	284.4	2.0	0	0.00	77.	1008.	5	NAD-SFC	NoSubs
9	4	28	118	1	-8.4	0.146	-9.000	-9.000	-999.	136.	33.1	0.0780	0.32	1.00	2.10	282.0	15.0	284.2	2.0	0	0.00	77.	1008.	8	NAD-SFC	NoSubs
9	4	28	118	2	-7.3	0.148	-9.000	-9.000	-999.	136.	39.6	0.0780	0.32	1.00	2.10	271.0	15.0	284.1	2.0	0	0.00	77.	1008.	10	NAD-SFC	NoSubs
9	4	28	118	3	-7.4	0.148	-9.000	-9.000	-999.	136.	39.6	0.0780	0.32	1.00	2.10	270.0	15.0	283.8	2.0	0	0.00	79.	1009.	10	NAD-SFC	NoSubs
9	4	28	118	4	-7.4	0.148	-9.000	-9.000	-999.	136.	39.5	0.0780	0.32	1.00	2.10	294.0	15.0	283.4	2.0	0	0.00	80.	1009.	10	NAD-SFC	NoSubs
9	4	28	118	5	-9.5	0.174	-9.000	-9.000	-999.	174.	50.0	0.1620	0.32	1.00	2.10	305.0	15.0	283.2	2.0	0	0.00	79.	1009.	10	NAD-SFC	NoSubs
9	4	28	118	6	-9.1	0.175	-9.000	-9.000	-999.	175.	52.3	0.1620	0.32	0.57	2.10	302.0	15.0	283.2	2.0	0	0.00	80.	1009.	10	NAD-SFC	NoSubs
9	4	28	118	7	2.1	0.234	0.284	0.005	400.	273.	-565.5	0.1620	0.32	0.27	2.60	307.0	15.0	283.0	2.0	0	0.00	80.	1010.	10	NAD-SFC	NoSubs
9	4	28	118	8	10.8	0.340	0.511	0.005	442.	477.	-327.6	0.1880	0.32	0.18	3.60	332.0	15.0	282.8	2.0	0	0.00	78.	1010.	10	NAD-SFC	NoSubs
9	4	28	118	9	18.6	0.304	0.640	0.005	507.	403.	-135.9	0.1880	0.32	0.15	3.10	338.0	15.0	283.0	2.0	0	0.00	76.	1010.	10	NAD-SFC	NoSubs
9	4	28	118	10	86.2	-9.000	-9.000	-9.000	695.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	284.8	2.0	0	0.00	69.	1010.	7	NAD-SFC	NoSubs
9	4	28	118	11	29.3	0.087	0.840	0.006	728.	61.	-2.0	0.1880	0.32	0.14	0.50	358.0	15.0	286.2	2.0	0	0.00	61.	1009.	10	NAD-SFC	NoSubs
9	4	28	118	12	105.4	0.103	1.345	0.007	832.	79.	-1.0	0.1900	0.32	0.14	0.50	13.0	15.0	287.4	2.0	0	0.00	55.	1009.	7	NAD-SFC	NoSubs
9	4	28	118	13	125.0	0.161	1.485	0.007	942.	154.	-3.0	0.1900	0.32	0.14	1.00	7.0	15.0	288.8	2.0	0	0.00	51.	1008.	5	NAD-SFC	NoSubs
9	4	28	118	14	120.6	0.207	1.507	0.006	1021.	226.	-6.6	0.1900	0.32	0.14	1.50	7.0	15.0	289.6	2.0	0	0.00	47.	1007.	4	NAD-SFC	NoSubs
9	4	28	118	15	103.5	-9.000	-9.000	-9.000	1077.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	290.2	2.0	0	0.00	45.	1007.	4	NAD-SFC	NoSubs
9	4	28	118	16	79.7	0.333	1.353	0.006	1118.	461.	-41.6	0.1900	0.32	0.15	3.10	4.0	15.0	290.8	2.0	0	0.00	44.	1007.	3	NAD-SFC	NoSubs
9	4	28	118	17	48.0	0.404	1.152	0.005	1143.	617.	-123.5	0.1880	0.32	0.19	4.10	349.0	15.0	290.6	2.0	0	0.00	46.	1006.	4	NAD-SFC	NoSubs
9	4	28	118	18	12.9	0.299	0.745	0.005	1148.	400.	-186.2	0.1880	0.32	0.30	3.10	346.0	15.0	290.0	2.0	0	0.00	57.	1007.	3	NAD-SFC	NoSubs
9	4	28	118	19	-37.1	0.360	-9.000	-9.000	-999.	517.	112.6	0.1880	0.32	0.67	4.10	355.0	15.0	288.2	2.0	0	0.00	64.	1008.	3	NAD-SFC	NoSubs
9	4	28	118	20	-33.2	0.314	-9.000	-9.000	-999.	423.	83.7	0.1880	0.32	1.00	3.60	357.0	15.0	286.8	2.0	0	0.00	69.	1008.	3	NAD-SFC	NoSubs
9	4	28	118	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	286.0	2.0	0	0.00	71.	1008.	3	NAD-SFC	NoSubs
9	4	28	118	22	-3.5	0.095	-9.000	-9.000	-999.	70.	22.0	0.1900	0.32	1.00	1.00	5.0	15.0	285.2	2.0	0	0.00	72.	1009.	3	NAD-SFC	NoSubs
9	4	28	118	23	-1.5	0.080	-9.000	-9.000	-999.	54.	31.1	0.1900	0.32	1.00	0.50	1.0	15.0	284.6	2.0	0	0.00	74.	1009.	3	NAD-SFC	NoSubs
9	4	28	118	24	-6.5	0.120	-9.000	-9.000	-999.	100.	24.2	0.1620	0.32	1.00	1.50	323.0	15.0	283.8	2.0	0	0.00	77.	1009.	3	NAD-SFC	NoSubs
9	4	29	119	1	-12.8	0.170	-9.000	-9.000	-999.	168.	34.3	0.1620	0.32	1.00	2.10	320.0	15.0	282.8	2.0	0	0.00	80.	1009.	3	NAD-SFC	NoSubs
9	4	29	119	2	-6.9	0.125	-9.000	-9.000	-999.	106.	25.3	0.1880	0.32	1.00	1.50	337.0	15.0	282.0	2.0	0	0.00	81.	1010.	3	NAD-SFC	NoSubs
9	4	29	119	3	-3.5	0.095	-9.000	-9.000	-999.	70.	21.9	0.1880	0.32	1.00	1.00	360.0	15.0	281.5	2.0	0	0.00	82.	1010.	3	NAD-SFC	NoSubs
9	4	29	119	4	-1.5	0.080	-9.000	-9.000	-999.	54.	31.2	0.1900	0.32	1.00	0.50	20.0	15.0	280.9	2.0	0	0.00	84.	1010.	3	NAD-SFC	NoSubs
9	4	29	119	5	-1.5	0.080	-9.000	-9.000	-999.	55.	31.3	0.1900	0.32	1.00	0.50	29.0	15.0	280.4	2.0	0	0.00	85.	1010.	3	NAD-SFC	NoSubs
9	4	29	119	6	-1.0	0.068	-9.000	-9.000	-999.	43.	27.4	0.0760	0.32	0.57	0.50	61.0	15.0	280.0	2.0	0	0.00	87.	1011.	3	NAD-SFC	NoSubs
9	4	29	119	7	18.1	0.082	0.429	0.005	157.	56.	-2.7	0.1900	0.32	0.27	0.50	19.0	15.0	281.2	2.0	0	0.00	79.	1011.	3	NAD-SFC	NoSubs
9	4	29	119	8	53.1	-9.000	-9.000	-9.000	405.	-999.	-99999.0	0.0879	0.32	0.18	0.00	0.0	15.0	282.5	2.0	0	0.00	72.	1011.	3	NAD-SFC	NoSubs
9	4	29	119	9	83.8	-9.000	-9.000	-9.000	525.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	284.0	2.0	0	0.00	65.	1010.	3	NAD-SFC	NoSubs
9	4	29	119	10	107.9	-9.000	-9.000	-9.000	650.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	285.9	2.0	0	0.00	58.	1009.	2	NAD-SFC	NoSubs
9	4	29	119	11	124.5	-9.000	-9.000	-9.000	800.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	287.5	2.0	0	0.00	52.	1009.	2	NAD-SFC	NoSubs
9	4	29	119	12	132.5	-9.000	-9.000	-9.000	937.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	289.0	2.0	0	0.00	47.	1008.	2	NAD-SFC	NoSubs
9	4	29	119	13	132.1	0.103	1.556	0.010	1025.	79.	-1.0	0.1620	0.32	0.14	0.50	320.0	15.0	290.4	2.0	0	0.00	43.	1007.	2	NAD-SFC	NoSubs
9	4	29	119	14	123.1	0.207	1.552	0.010	1090.	226.	-6.4	0.1880	0.32	0.14	1.50	339.0	15.0	291.6	2.0	0	0.00	40.	1006.	2	NAD-SFC	NoSubs
9	4	29	119	15	105.5	0.298	1.497	0.011	1143.	390.	-22.4	0.1880	0.32	0.14	2.60	350.0	15.0	292.4	2.0	0	0.00	38.	1006.	2	NAD-SFC	NoSubs
9	4	29	119	16	80.2	0.374	1.382	0.011	1181.	550.	-58.8	0.1900	0.32	0.15	3.60	3.0	15.0	292.6	2.0	0	0.00	38.	1006.	2	NAD-SFC	NoSubs
9	4	29	119	17	48.3	-9.000	-9.000	-9.000	1203.	-999.	-99999.0	0.0879	0.32	0.19	0.00	0.0	15.0	292.4	2.0	0	0.00	40.	1006.	2	NAD-SFC	NoSubs
9	4	29	119	18	12.8	-9.000	-9.000	-9.000	1208.	-999.	-99999.0	0.0879	0.32	0.30	0.00	0.0	15.0	291.8	2.0	0	0.00	50.	1006.	2	NAD-SFC	NoSubs
9	4	29	119	19	-32.7	0.314	-9.000	-9.000	-999.	422.	84.7	0.1880	0.32	0.66	3.60	354.0	15.0	290.8	2.0	0	0.00	52.	1007.	2	NAD-SFC	NoSubs
9	4	29	119	20	-37.6	0.359	-9.000	-9.000	-999.	517.	110.8	0.1880	0.32	1.00	4.10	341.0	15.0	289.1	2.0	0	0.00	57.	1007.	3	NAD-SFC	NoSubs
9	4	29	119	21	-33.0	0.314	-9.000	-9.000	-999.	423.	84.0	0.1880	0.32	1.00	3.60	347.0	15.0	287.6	2.0	0	0.00	63.	1007.	3	NAD-SFC	NoSubs
9	4	29	119	22	-21.1	0.222	-9.000	-9.000	-999.	255.	46.8	0.1880	0.32	1.00	2.60	347.0	15.0	286.8	2.0	0	0.00	67.	1008.	3	NAD-SFC	NoSubs
9	4	29	119	23	-6.8	0.125	-9.000	-9.000	-999.	110.	25.4	0.1880	0.32	1.00	1.50	337.0	15.0	285.9	2.0	0	0.00	70.	1008.	3	NAD-SFC	NoSubs
9	4	29	119	24	-12.8	0.170	-9.000	-9.000	-999.	168.	34.4	0.1620	0.32	1.00	2.10	320.0	15.0	285.0	2.0	0	0.00	72.	1008.	3	NAD-SFC	NoSubs
9	4	30	120	1	-12.8	0.170	-9.000	-9.000	-999.	168.	34.4	0.1620	0.32	1.00	2.10	326.0	15.0	284.2	2.0	0	0.00	75.	1009.	3	NAD-SFC	NoSubs
9	4	30	120	2	-6.9	0.125	-9.000	-9.000	-999.	106.	25.3	0.1880	0.32	1.00	1.50	359.0	15.0	283.8	2.0	0	0.00	76.	1009.	3	NAD-SFC	NoSubs
9	4	30	120	3	-1.5	0.080	-9.000	-9.000	-999.	54.	31.2	0.1900	0.32	1.00	0.50	27.0	15.0	283.4	2.0	0	0.00	77.	1009.	3	NAD-SFC	NoSubs
9	4	30	120	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	283.1	2.0	0	0.00	78.	1009.	3	NAD-SFC	NoSubs

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 9  4 30 120   5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0879 0.32 1.00 0.00   0.0 15.0 282.8 2.0 0 0.00 79. 1010.  2 NAD-SFC NoSubs
 9  4 30 120   6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0879 0.32 0.56 0.00   0.0 15.0 282.2 2.0 0 0.00 81. 1010.  2 NAD-SFC NoSubs
 9  4 30 120   7   18.0 -9.000 -9.000 -9.000  222. -999. -99999.0 0.0879 0.32 0.27 0.00   0.0 15.0 282.8 2.0 0 0.00 77. 1010.  2 NAD-SFC NoSubs
 9  4 30 120   8   53.3 -9.000 -9.000 -9.000  305. -999. -99999.0 0.0879 0.32 0.18 0.00   0.0 15.0 284.2 2.0 0 0.00 69. 1010.  2 NAD-SFC NoSubs
 9  4 30 120   9   84.2 -9.000 -9.000 -9.000  412. -999. -99999.0 0.0879 0.32 0.15 0.00   0.0 15.0 285.8 2.0 0 0.00 63. 1010.  2 NAD-SFC NoSubs
 9  4 30 120  10  108.7 -9.000 -9.000 -9.000  562. -999. -99999.0 0.0879 0.32 0.14 0.00   0.0 15.0 287.8 2.0 0 0.00 54. 1009.  2 NAD-SFC NoSubs
 9  4 30 120  11  125.4 -9.000 -9.000 -9.000  694. -999. -99999.0 0.0879 0.32 0.14 0.00   0.0 15.0 289.9 2.0 0 0.00 47. 1009.  2 NAD-SFC NoSubs
 9  4 30 120  12  133.4 -9.000 -9.000 -9.000  806. -999. -99999.0 0.0879 0.32 0.14 0.00   0.0 15.0 291.8 2.0 0 0.00 42. 1008.  2 NAD-SFC NoSubs
 9  4 30 120  13  133.0 -9.000 -9.000 -9.000  905. -999. -99999.0 0.0879 0.32 0.14 0.00   0.0 15.0 293.1 2.0 0 0.00 37. 1007.  2 NAD-SFC NoSubs
 9  4 30 120  14  124.0  0.102  1.503  0.010  984.   78.     -1.0 0.1620 0.32 0.14 0.50 327.0 15.0 294.1 2.0 0 0.00 34. 1006.  2 NAD-SFC NoSubs
 9  4 30 120  15  106.4  0.157  1.452  0.010 1035.  149.     -3.2 0.1880 0.32 0.14 1.00 353.0 15.0 294.6 2.0 0 0.00 33. 1006.  2 NAD-SFC NoSubs
 9  4 30 120  16   81.2  0.292  1.343  0.011 1072.  378.    -27.4 0.1900 0.32 0.15 2.60   8.0 15.0 295.4 2.0 0 0.00 35. 1006.  2 NAD-SFC NoSubs
 9  4 30 120  17   49.3  0.280  1.145  0.011 1093.  356.    -40.1 0.1900 0.32 0.19 2.60  28.0 15.0 294.8 2.0 0 0.00 44. 1006.  2 NAD-SFC NoSubs
 9  4 30 120  18   13.8  0.239  0.750  0.011 1098.  281.    -88.5 0.1280 0.32 0.30 2.60  42.0 15.0 294.2 2.0 0 0.00 48. 1006.  2 NAD-SFC NoSubs
 9  4 30 120  19   -9.6  0.143 -9.000 -9.000 -999.  134.     27.6 0.0760 0.32 0.65 2.10  62.0 15.0 293.5 2.0 0 0.00 49. 1006.  2 NAD-SFC NoSubs
 9  4 30 120  20   -1.1  0.069 -9.000 -9.000 -999.   46.     27.7 0.0510 0.32 1.00 0.50 102.0 15.0 292.8 2.0 0 0.00 52. 1006.  2 NAD-SFC NoSubs
 9  4 30 120  21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0879 0.32 1.00 0.00   0.0 15.0 291.8 2.0 0 0.00 56. 1006.  2 NAD-SFC NoSubs
 9  4 30 120  22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0879 0.32 1.00 0.00   0.0 15.0 291.0 2.0 0 0.00 60. 1007.  2 NAD-SFC NoSubs
 9  4 30 120  23   -1.5  0.080 -9.000 -9.000 -999.   54.     31.1 0.1880 0.32 1.00 0.50 333.0 15.0 290.4 2.0 0 0.00 63. 1007.  2 NAD-SFC NoSubs
 9  4 30 120  24   -3.5  0.095 -9.000 -9.000 -999.   70.     21.9 0.1880 0.32 1.00 1.00 339.0 15.0 289.8 2.0 0 0.00 65. 1007.  2 NAD-SFC NoSubs
 9  5  1 121   1  -16.7  0.200 -9.000 -9.000 -999.  214.     42.9 0.2930 0.52 1.00 2.10 340.0 15.0 289.2 2.0 0 0.00 67. 1007.  2 NAD-SFC NoSubs
 9  5  1 121   2  -16.7  0.200 -9.000 -9.000 -999.  214.     42.8 0.2930 0.52 1.00 2.10 342.0 15.0 288.4 2.0 0 0.00 70. 1007.  2 NAD-SFC NoSubs
 9  5  1 121   3   -8.4  0.140 -9.000 -9.000 -999.  126.     29.3 0.2930 0.52 1.00 1.50 334.0 15.0 287.8 2.0 0 0.00 73. 1007.  2 NAD-SFC NoSubs
 9  5  1 121   4   -8.1  0.137 -9.000 -9.000 -999.  122.     28.5 0.2720 0.52 1.00 1.50 315.0 15.0 287.2 2.0 0 0.00 74. 1007.  2 NAD-SFC NoSubs
 9  5  1 121   5   -4.0  0.101 -9.000 -9.000 -999.   77.     23.3 0.2720 0.52 1.00 1.00 311.0 15.0 286.9 2.0 0 0.00 75. 1007.  2 NAD-SFC NoSubs
 9  5  1 121   6   -1.4  0.078 -9.000 -9.000 -999.   52.     30.3 0.2720 0.52 0.59 0.50 305.0 15.0 286.8 2.0 0 0.00 76. 1007.  2 NAD-SFC NoSubs
 9  5  1 121   7   23.9  0.087  0.418  0.008  110.   61.     -2.5 0.2160 0.52 0.31 0.50 286.0 15.0 286.8 2.0 0 0.00 76. 1007.  2 NAD-SFC NoSubs
 9  5  1 121   8   71.0 -9.000 -9.000 -9.000  236. -999. -99999.0 0.2235 0.52 0.23 0.00   0.0 15.0 288.1 2.0 0 0.00 68. 1007.  2 NAD-SFC NoSubs
 9  5  1 121   9  112.3 -9.000 -9.000 -9.000  394. -999. -99999.0 0.2235 0.52 0.20 0.00   0.0 15.0 289.8 2.0 0 0.00 61. 1007.  2 NAD-SFC NoSubs
 9  5  1 121  10  144.8 -9.000 -9.000 -9.000  678. -999. -99999.0 0.2235 0.52 0.19 0.00   0.0 15.0 291.8 2.0 0 0.00 51. 1007.  2 NAD-SFC NoSubs
 9  5  1 121  11  166.9 -9.000 -9.000 -9.000  783. -999. -99999.0 0.2235 0.52 0.19 0.00   0.0 15.0 293.2 2.0 0 0.00 47. 1006.  2 NAD-SFC NoSubs
 9  5  1 121  12  177.6 -9.000 -9.000 -9.000  882. -999. -99999.0 0.2235 0.52 0.19 0.00   0.0 15.0 294.8 2.0 0 0.00 44. 1005.  2 NAD-SFC NoSubs
 9  5  1 121  13  177.0  0.122  1.685  0.008  971.  102.     -1.0 0.2940 0.52 0.19 0.50  23.0 15.0 295.9 2.0 0 0.00 41. 1005.  2 NAD-SFC NoSubs
 9  5  1 121  14  165.1  0.121  1.692  0.008 1053.  101.     -1.0 0.2930 0.52 0.19 0.50 352.0 15.0 296.8 2.0 0 0.00 39. 1004.  2 NAD-SFC NoSubs
 9  5  1 121  15  141.8  0.179  1.641  0.008 1118.  182.     -3.6 0.2940 0.52 0.19 1.00  12.0 15.0 297.1 2.0 0 0.00 38. 1004.  3 NAD-SFC NoSubs
 9  5  1 121  16  108.3  0.277  1.520  0.008 1165.  351.    -17.7 0.2720 0.52 0.20 2.10 310.0 15.0 297.0 2.0 0 0.00 43. 1005.  3 NAD-SFC NoSubs
 9  5  1 121  17   65.3  0.510  1.292  0.008 1186.  874.   -182.2 0.2160 0.52 0.24 5.10 296.0 15.0 293.9 2.0 0 0.00 66. 1005.  4 NAD-SFC NoSubs
 9  5  1 121  18   18.6  0.423  0.851  0.008 1187.  667.   -365.6 0.2720 0.52 0.34 4.10 301.0 15.0 290.9 2.0 0 0.51 84. 1006.  4 NAD-SFC NoSubs
 9  5  1 121  19  -25.5  0.298 -9.000 -9.000 -999.  402.     93.1 0.2720 0.52 0.69 3.10 311.0 15.0 289.9 2.0 0 1.52 91. 1007.  6 NAD-SFC NoSubs
 9  5  1 121  20   -6.1  0.143 -9.000 -9.000 -999.  150.     42.9 0.2930 0.52 1.00 1.50 340.0 15.0 289.5 2.0 0 2.03 94. 1007.  10 NAD-SFC NoSubs
 9  5  1 121  21   -5.6  0.136 -9.000 -9.000 -999.  120.     40.0 0.2470 0.52 1.00 1.50  38.0 15.0 289.5 2.0 0 0.76 94. 1007.  10 NAD-SFC NoSubs
 9  5  1 121  22   -5.6  0.136 -9.000 -9.000 -999.  120.     40.0 0.2470 0.52 1.00 1.50  50.0 15.0 289.5 2.0 0 0.25 93. 1008.  10 NAD-SFC NoSubs
 9  5  1 121  23   -6.1  0.143 -9.000 -9.000 -999.  129.     42.9 0.2940 0.52 1.00 1.50  27.0 15.0 289.4 2.0 0 0.51 93. 1008.  10 NAD-SFC NoSubs
 9  5  1 121  24   -5.6  0.136 -9.000 -9.000 -999.  120.     40.0 0.2470 0.52 1.00 1.50  40.0 15.0 289.2 2.0 0 0.25 93. 1008.  10 NAD-SFC NoSubs
 9  5  2 122   1   -7.1  0.133 -9.000 -9.000 -999.  117.     30.2 0.2470 0.52 1.00 1.50  52.0 15.0 289.0 2.0 0 0.00 93. 1008.  6 NAD-SFC NoSubs
 9  5  2 122   2  -14.2  0.191 -9.000 -9.000 -999.  201.     44.4 0.2470 0.52 1.00 2.10  55.0 15.0 288.8 2.0 0 0.00 94. 1008.  6 NAD-SFC NoSubs
 9  5  2 122   3  -13.7  0.192 -9.000 -9.000 -999.  202.     46.5 0.2470 0.52 1.00 2.10  38.0 15.0 288.2 2.0 0 0.00 95. 1008.  7 NAD-SFC NoSubs
 9  5  2 122   4  -14.2  0.203 -9.000 -9.000 -999.  219.     52.9 0.2940 0.52 1.00 2.10  28.0 15.0 288.0 2.0 0 0.00 95. 1008.  8 NAD-SFC NoSubs
 9  5  2 122   5   -7.7  0.140 -9.000 -9.000 -999.  127.     32.2 0.2940 0.52 1.00 1.50  14.0 15.0 287.9 2.0 0 0.00 95. 1008.  6 NAD-SFC NoSubs
 9  5  2 122   6   -6.5  0.138 -9.000 -9.000 -999.  123.     36.6 0.2720 0.52 0.58 1.50 326.0 15.0 287.8 2.0 0 0.00 94. 1008.  6 NAD-SFC NoSubs
 9  5  2 122   7   25.6  0.190  0.633  0.005  356.  198.    -24.0 0.2720 0.52 0.31 1.50 303.0 15.0 287.8 2.0 0 0.00 93. 1009.  6 NAD-SFC NoSubs
 9  5  2 122   8   66.4  0.251  0.989  0.006  525.  302.    -21.5 0.2160 0.52 0.23 2.10 296.0 15.0 288.4 2.0 0 0.00 82. 1009.  6 NAD-SFC NoSubs
 9  5  2 122   9  108.9  0.170  1.277  0.005  688.  171.     -4.1 0.2720 0.52 0.20 1.00 323.0 15.0 290.1 2.0 0 0.00 70. 1009.  5 NAD-SFC NoSubs
 9  5  2 122  10   34.9 -9.000 -9.000 -9.000  721. -999. -99999.0 0.2235 0.52 0.19 0.00   0.0 15.0 291.6 2.0 0 0.00 61. 1008.  10 NAD-SFC NoSubs
 9  5  2 122  11  149.6  0.111  1.519  0.005  844.   88.     -1.0 0.2090 0.52 0.19 0.50  72.0 15.0 292.5 2.0 0 0.00 56. 1008.  6 NAD-SFC NoSubs
 9  5  2 122  12  175.0 -9.000 -9.000 -9.000  969. -999. -99999.0 0.2235 0.52 0.19 0.00   0.0 15.0 293.6 2.0 0 0.00 51. 1007.  4 NAD-SFC NoSubs
 9  5  2 122  13  174.3 -9.000 -9.000 -9.000 1149. -999. -99999.0 0.2235 0.52 0.19 0.00   0.0 15.0 294.4 2.0 0 0.00 48. 1006.  4 NAD-SFC NoSubs
 9  5  2 122  14  164.8  0.116  1.812  0.005 1298.   95.     -1.0 0.2470 0.52 0.19 0.50  32.0 15.0 295.1 2.0 0 0.00 45. 1006.  3 NAD-SFC NoSubs
 9  5  2 122  15  141.6  0.179  1.779  0.005 1429.  182.     -3.7 0.2940 0.52 0.19 1.00  16.0 15.0 295.4 2.0 0 0.00 44. 1005.  3 NAD-SFC NoSubs
 9  5  2 122  16  108.2  0.282  1.663  0.005 1527.  360.    -18.6 0.2940 0.52 0.20 2.10  10.0 15.0 295.5 2.0 0 0.00 44. 1005.  3 NAD-SFC NoSubs
 9  5  2 122  17   66.3  0.269  1.430  0.005 1582.  334.    -26.2 0.2940 0.52 0.23 2.10  15.0 15.0 295.2 2.0 0 0.00 51. 1005.  3 NAD-SFC NoSubs
 9  5  2 122  18   19.6  0.243  0.956  0.005 1598.  288.    -65.9 0.2940 0.52 0.34 2.10   1.0 15.0 295.0 2.0 0 0.00 53. 1005.  3 NAD-SFC NoSubs
 9  5  2 122  19   -8.0  0.140 -9.000 -9.000 -999.  130.     30.8 0.2930 0.52 0.68 1.50 344.0 15.0 294.4 2.0 0 0.00 55. 1006.  3 NAD-SFC NoSubs
 9  5  2 122  20   -7.9  0.137 -9.000 -9.000 -999.  121.     29.2 0.2720 0.52 1.00 1.50 308.0 15.0 293.8 2.0 0 0.00 57. 1006.  3 NAD-SFC NoSubs
 9  5  2 122  21  -14.2  0.183 -9.000 -9.000 -999.  188.     38.9 0.2160 0.52 1.00 2.10 286.0 15.0 293.1 2.0 0 0.00 60. 1007.  3 NAD-SFC NoSubs
 9  5  2 122  22  -28.9  0.278 -9.000 -9.000 -999.  352.     67.0 0.2160 0.52 1.00 3.10 286.0 15.0 292.0 2.0 0 0.00 66. 1008.  3 NAD-SFC NoSubs
 9  5  2 122  23  -38.8  0.373 -9.000 -9.000 -999.  546.    119.7 0.2160 0.52 1.00 4.10 284.0 15.0 290.8 2.0 0 0.00 73. 1008.  3 NAD-SFC NoSubs
 9  5  2 122  24  -38.9  0.373 -9.000 -9.000 -999.  546.    119.4 0.2160 0.52 1.00 4.10 288.0 15.0 290.0 2.0 0 0.00 78. 1008.  3 NAD-SFC NoSubs
 9  5  3 123   1  -39.0  0.373 -9.000 -9.000 -999.  546.    119.2 0.2160 0.52 1.00 4.10 291.0 15.0 289.5 2.0 0 0.00 80. 1008.  3 NAD-SFC NoSubs
 9  5  3 123   2  -34.1  0.325 -9.000 -9.000 -999.  447.     90.8 0.2160 0.52 1.00 3.60 282.0 15.0 289.2 2.0 0 0.00 81. 1008.  3 NAD-SFC NoSubs
 9  5  3 123   3  -22.3  0.231 -9.000 -9.000 -999.  270.     49.4 0.2160 0.52 1.00 2.60 281.0 15.0 289.0 2.0 0 0.00 81. 1008.  3 NAD-SFC NoSubs
 9  5  3 123   4   -7.2  0.129 -9.000 -9.000 -999.  116.     26.7 0.2160 0.52 1.00 1.50 281.0 15.0 288.8 2.0 0 0.00 80. 1008.  3 NAD-SFC NoSubs
 9  5  3 123   5   -1.4  0.078 -9.000 -9.000 -999.   53.     30.8 0.1750 0.52 1.00 0.50 258.0 15.0 288.8 2.0 0 0.00 80. 1008.  3 NAD-SFC NoSubs
 9  5  3 123   6   -2.9  0.089 -9.000 -9.000 -999.   64.     22.2 0.1970 0.52 0.57 1.00 131.0 15.0 288.5 2.0 0 0.00 81. 1009.  3 NAD-SFC NoSubs
 9  5  3 123   7   27.3  0.132  0.489  0.006  154.  115.     -7.5 0.1750 0.52 0.31 1.00 257.0 15.0 289.5 2.0 0 0.00 74. 1009.  3 NAD-SFC NoSubs
 9  5  3 123   8   73.9 -9.000 -9.000 -9.000  314. -999. -99999.0 0.2235 0.52 0.22 0.00   0.0 15.0 291.0 2.0 0 0.00 66. 1009.  3 NAD-SFC NoSubs
 9  5  3 123   9  113.5 -9.000 -9.000 -9.000  533. -999. -99999.0 0.2235 0.52 0.20 0.00   0.0 15.0 292.4 2.0 0 0.00 60. 1009.  4 NAD-SFC NoSubs
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 9  5  3 123 10  145.0 -9.000 -9.000 -9.000  774. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 294.1  2.0    0  0.00   54. 1009.    4 NAD-SFC NoSubs
 9  5  3 123 11  166.3 -9.000 -9.000 -9.000  988. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 295.6  2.0    0  0.00   50. 1008.    4 NAD-SFC NoSubs
 9  5  3 123 12  170.9 -9.000 -9.000 -9.000 1125. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 297.2  2.0    0  0.00   47. 1007.    5 NAD-SFC NoSubs
 9  5  3 123 13  176.2 -9.000 -9.000 -9.000 1252. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 298.5  2.0    0  0.00   44. 1006.    4 NAD-SFC NoSubs
 9  5  3 123 14  166.9  0.220  1.846  0.007 1354.  248.    -5.8  0.2160  0.52  0.19  1.50  297.0  15.0 299.4  2.0    0  0.00   42. 1005.    3 NAD-SFC NoSubs
 9  5  3 123 15  143.7  0.377  1.781  0.007 1412.  555.   -33.3  0.2720  0.52  0.19  3.10  314.0  15.0 299.6  2.0    0  0.00   43. 1004.    3 NAD-SFC NoSubs
 9  5  3 123 16  109.2  0.458  1.642  0.007 1453.  744.   -78.9  0.2720  0.52  0.20  4.10  316.0  15.0 299.4  2.0    0  0.00   44. 1004.    4 NAD-SFC NoSubs
 9  5  3 123 17   68.2  0.361  1.412  0.007 1479.  528.   -61.9  0.2930  0.52  0.23  3.10  338.0  15.0 299.0  2.0    0  0.00   53. 1003.    4 NAD-SFC NoSubs
 9  5  3 123 18   22.0  0.433  0.970  0.007 1484.  683.  -329.5  0.2930  0.52  0.34  4.10  341.0  15.0 297.8  2.0    0  0.00   59. 1004.    4 NAD-SFC NoSubs
 9  5  3 123 19  -42.3  0.459 -9.000 -9.000 -999.  745.   204.2  0.2930  0.52  0.67  4.60  336.0  15.0 295.4  2.0    0  0.00   69. 1004.    4 NAD-SFC NoSubs
 9  5  3 123 20  -43.3  0.458 -9.000 -9.000 -999.  745.   199.5  0.2930  0.52  1.00  4.60  336.0  15.0 293.2  2.0    0  0.00   82. 1005.    5 NAD-SFC NoSubs
 9  5  3 123 21  -38.6  0.407 -9.000 -9.000 -999.  625.   156.4  0.2930  0.52  1.00  4.10  338.0  15.0 292.1  2.0    0  0.00   86. 1006.    5 NAD-SFC NoSubs
 9  5  3 123 22  -27.1  0.304 -9.000 -9.000 -999.  410.    93.2  0.2930  0.52  1.00  3.10  331.0  15.0 291.2  2.0    0  0.00   87. 1006.    6 NAD-SFC NoSubs
 9  5  3 123 23  -26.6  0.298 -9.000 -9.000 -999.  390.    89.0  0.2720  0.52  1.00  3.10  306.0  15.0 290.8  2.0    0  0.00   88. 1007.    6 NAD-SFC NoSubs
 9  5  3 123 24  -23.1  0.280 -9.000 -9.000 -999.  355.    85.2  0.2160  0.52  1.00  3.10  276.0  15.0 290.0  2.0    0  0.00   90. 1006.    7 NAD-SFC NoSubs
 9  5  4 124  1  -27.8  0.309 -9.000 -9.000 -999.  413.    95.5  0.1750  0.52  1.00  3.60  267.0  15.0 289.1  2.0    0  0.00   92. 1007.    6 NAD-SFC NoSubs
 9  5  4 124  2  -31.4  0.326 -9.000 -9.000 -999.  446.    99.1  0.2160  0.52  1.00  3.60  280.0  15.0 288.1  2.0    0  0.00   92. 1007.    5 NAD-SFC NoSubs
 9  5  4 124  3  -31.4  0.326 -9.000 -9.000 -999.  447.    98.9  0.2160  0.52  1.00  3.60  277.0  15.0 287.5  2.0    0  0.00   91. 1007.    5 NAD-SFC NoSubs
 9  5  4 124  4  -22.0  0.231 -9.000 -9.000 -999.  271.    50.3  0.2160  0.52  1.00  2.60  294.0  15.0 287.0  2.0    0  0.00   91. 1007.    4 NAD-SFC NoSubs
 9  5  4 124  5  -24.9  0.246 -9.000 -9.000 -999.  293.    53.8  0.2720  0.52  1.00  2.60  302.0  15.0 286.6  2.0    0  0.00   91. 1007.    3 NAD-SFC NoSubs
 9  5  4 124  6  -18.8  0.233 -9.000 -9.000 -999.  269.    60.2  0.2160  0.52  0.57  2.60  297.0  15.0 286.8  2.0    0  0.00   89. 1007.    3 NAD-SFC NoSubs
 9  5  4 124  7   26.3  0.245  0.478  0.005  149.  290.   -50.0  0.2720  0.52  0.30  2.10  306.0  15.0 287.5  2.0    0  0.00   83. 1007.    2 NAD-SFC NoSubs
 9  5  4 124  8   73.1  0.106  0.895  0.005  352.   98.    -1.5  0.2720  0.52  0.22  0.50  329.0  15.0 288.2  2.0    0  0.00   78. 1007.    2 NAD-SFC NoSubs
 9  5  4 124  9  113.9 -9.000 -9.000 -9.000  554. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 289.2  2.0    0  0.00   76. 1007.    2 NAD-SFC NoSubs
 9  5  4 124 10  146.0  0.109  1.434  0.007  726.   86.    -1.0  0.1970  0.52  0.19  0.50  134.0  15.0 290.5  2.0    0  0.00   73. 1006.    2 NAD-SFC NoSubs
 9  5  4 124 11  168.0  0.109  1.599  0.007  875.   86.    -1.0  0.1810  0.52  0.19  0.50  154.0  15.0 292.2  2.0    0  0.00   65. 1006.    2 NAD-SFC NoSubs
 9  5  4 124 12  178.6 -9.000 -9.000 -9.000 1004. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 294.0  2.0    0  0.00   55. 1005.    2 NAD-SFC NoSubs
 9  5  4 124 13  178.0 -9.000 -9.000 -9.000 1104. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 295.2  2.0    0  0.00   48. 1004.    2 NAD-SFC NoSubs
 9  5  4 124 14  166.0 -9.000 -9.000 -9.000 1189. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 296.1  2.0    0  0.00   43. 1003.    2 NAD-SFC NoSubs
 9  5  4 124 15  142.7  0.173  1.712  0.009 1259.  172.    -3.2  0.2470  0.52  0.19  1.00   41.0  15.0 296.6  2.0    0  0.00   41. 1002.    2 NAD-SFC NoSubs
 9  5  4 124 16  109.1  0.272  1.586  0.009 1308.  340.   -16.5  0.2470  0.52  0.20  2.10   42.0  15.0 296.8  2.0    0  0.00   42. 1002.    2 NAD-SFC NoSubs
 9  5  4 124 17   67.8  0.259  1.363  0.009 1337.  317.   -23.0  0.2470  0.52  0.23  2.10   51.0  15.0 296.4  2.0    0  0.00   50. 1002.    3 NAD-SFC NoSubs
 9  5  4 124 18   21.1  0.176  0.926  0.009 1344.  180.   -23.2  0.2090  0.52  0.34  1.50   68.0  15.0 296.0  2.0    0  0.00   52. 1002.    3 NAD-SFC NoSubs
 9  5  4 124 19   -1.4  0.077 -9.000 -9.000 -999.   57.    30.3  0.2130  0.52  0.66  0.50  118.0  15.0 295.2  2.0    0  0.00   54. 1003.    3 NAD-SFC NoSubs
 9  5  4 124 20   -1.4  0.079 -9.000 -9.000 -999.   53.    30.8  0.1950  0.52  1.00  0.50  210.0  15.0 294.5  2.0    0  0.00   58. 1003.    3 NAD-SFC NoSubs
 9  5  4 124 21  -12.9  0.173 -9.000 -9.000 -999.  173.    36.0  0.1750  0.52  1.00  2.10  247.0  15.0 293.6  2.0    0  0.00   61. 1004.    3 NAD-SFC NoSubs
 9  5  4 124 22  -33.6  0.325 -9.000 -9.000 -999.  446.    91.7  0.2160  0.52  1.00  3.60  271.0  15.0 292.0  2.0    0  0.00   66. 1004.    3 NAD-SFC NoSubs
 9  5  4 124 23  -38.7  0.373 -9.000 -9.000 -999.  546.   119.7  0.2160  0.52  1.00  4.10  278.0  15.0 290.8  2.0    0  0.00   71. 1005.    3 NAD-SFC NoSubs
 9  5  4 124 24  -38.9  0.373 -9.000 -9.000 -999.  546.   119.3  0.2160  0.52  1.00  4.10  288.0  15.0 289.6  2.0    0  0.00   75. 1005.    3 NAD-SFC NoSubs
 9  5  5 125  1  -34.0  0.325 -9.000 -9.000 -999.  447.    90.7  0.2160  0.52  1.00  3.60  297.0  15.0 288.9  2.0    0  0.00   77. 1005.    3 NAD-SFC NoSubs
 9  5  5 125  2  -31.1  0.297 -9.000 -9.000 -999.  388.    75.2  0.2720  0.52  1.00  3.10  302.0  15.0 288.4  2.0    0  0.00   79. 1005.    3 NAD-SFC NoSubs
 9  5  5 125  3  -31.2  0.297 -9.000 -9.000 -999.  388.    75.0  0.2720  0.52  1.00  3.10  305.0  15.0 287.8  2.0    0  0.00   82. 1006.    3 NAD-SFC NoSubs
 9  5  5 125  4  -24.8  0.246 -9.000 -9.000 -999.  294.    53.8  0.2720  0.52  1.00  2.60  301.0  15.0 287.2  2.0    0  0.00   86. 1006.    3 NAD-SFC NoSubs
 9  5  5 125  5  -14.3  0.183 -9.000 -9.000 -999.  189.    38.4  0.2160  0.52  1.00  2.10  288.0  15.0 286.8  2.0    0  0.00   89. 1006.    3 NAD-SFC NoSubs
 9  5  5 125  6   -6.2  0.129 -9.000 -9.000 -999.  112.    30.9  0.2160  0.52  0.56  1.50  294.0  15.0 286.4  2.0    0  0.00   92. 1007.    3 NAD-SFC NoSubs
 9  5  5 125  7   28.2  0.234  0.482  0.007  143.  272.   -40.8  0.2160  0.52  0.30  2.10  293.0  15.0 287.8  2.0    0  0.00   86. 1007.    3 NAD-SFC NoSubs
 9  5  5 125  8   74.8 -9.000 -9.000 -9.000  277. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0 289.6  2.0    0  0.00   76. 1007.    3 NAD-SFC NoSubs
 9  5  5 125  9  115.4 -9.000 -9.000 -9.000  446. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 291.1  2.0    0  0.00   67. 1007.    3 NAD-SFC NoSubs
 9  5  5 125 10  147.4 -9.000 -9.000 -9.000  595. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 293.0  2.0    0  0.00   59. 1007.    3 NAD-SFC NoSubs
 9  5  5 125 11  166.8 -9.000 -9.000 -9.000  784. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 294.6  2.0    0  0.00   53. 1007.    4 NAD-SFC NoSubs
 9  5  5 125 12  177.0 -9.000 -9.000 -9.000  979. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 296.0  2.0    0  0.00   50. 1006.    4 NAD-SFC NoSubs
 9  5  5 125 13  176.5 -9.000 -9.000 -9.000 1108. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 297.2  2.0    0  0.00   47. 1005.    4 NAD-SFC NoSubs
 9  5  5 125 14  165.0  0.121  1.775  0.007 1216.  101.    -1.0  0.2930  0.52  0.19  0.50  351.0  15.0 298.2  2.0    0  0.00   44. 1004.    4 NAD-SFC NoSubs
 9  5  5 125 15  144.1  0.232  1.737  0.007 1304.  268.    -7.7  0.2940  0.52  0.19  1.50    5.0  15.0 298.8  2.0    0  0.00   43. 1003.    3 NAD-SFC NoSubs
 9  5  5 125 16  111.0 -9.000 -9.000 -9.000 1361. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 299.2  2.0    0  0.00   44. 1002.    3 NAD-SFC NoSubs
 9  5  5 125 17   69.4 -9.000 -9.000 -9.000 1390. -999. -99999.0 0.2235  0.52  0.23  0.00    0.0  15.0 299.1  2.0    0  0.00   46. 1002.    3 NAD-SFC NoSubs
 9  5  5 125 18   22.7 -9.000 -9.000 -9.000 1398. -999. -99999.0 0.2235  0.52  0.33  0.00    0.0  15.0 298.6  2.0    0  0.00   56. 1002.    3 NAD-SFC NoSubs
 9  5  5 125 19  -38.1  0.407 -9.000 -9.000 -999.  623.   158.1  0.2930  0.52  0.65  4.10  353.0  15.0 296.6  2.0    0  0.00   65. 1003.    3 NAD-SFC NoSubs
 9  5  5 125 20  -45.2  0.458 -9.000 -9.000 -999.  743.   190.2  0.2930  0.52  1.00  4.60  337.0  15.0 294.4  2.0    0  0.00   75. 1003.    4 NAD-SFC NoSubs
 9  5  5 125 21  -48.2  0.510 -9.000 -9.000 -999.  874.   246.8  0.2930  0.52  1.00  5.10  339.0  15.0 292.6  2.0    0  0.00   81. 1004.    5 NAD-SFC NoSubs
 9  5  5 125 22  -40.8  0.459 -9.000 -9.000 -999.  749.   212.2  0.2930  0.52  1.00  4.60  342.0  15.0 291.5  2.0    0  0.00   84. 1005.    6 NAD-SFC NoSubs
 9  5  5 125 23  -33.5  0.408 -9.000 -9.000 -999.  628.   181.4  0.2930  0.52  1.00  4.10  334.0  15.0 290.8  2.0    0  0.00   88. 1005.    7 NAD-SFC NoSubs
 9  5  5 125 24  -21.9  0.402 -9.000 -9.000 -999.  613.   266.3  0.2720  0.52  1.00  4.10  318.0  15.0 290.1  2.0    0  0.00   91. 1005.   10 NAD-SFC NoSubs
 9  5  6 126  1  -19.2  0.351 -9.000 -9.000 -999.  502.   202.7  0.2720  0.52  1.00  3.60  325.0  15.0 289.8  2.0    0  0.00   91. 1006.   10 NAD-SFC NoSubs
 9  5  6 126  2  -18.5  0.249 -9.000 -9.000 -999.  303.    74.6  0.2720  0.52  1.00  2.60  322.0  15.0 289.4  2.0    0  0.00   91. 1006.    8 NAD-SFC NoSubs
 9  5  6 126  3  -14.3  0.197 -9.000 -9.000 -999.  211.    48.4  0.2720  0.52  1.00  2.10  317.0  15.0 289.2  2.0    0  0.00   91. 1006.    7 NAD-SFC NoSubs
 9  5  6 126  4  -14.3  0.197 -9.000 -9.000 -999.  210.    48.4  0.2720  0.52  1.00  2.10  323.0  15.0 289.2  2.0    0  0.00   90. 1007.    7 NAD-SFC NoSubs
 9  5  6 126  5  -15.3  0.196 -9.000 -9.000 -999.  209.    44.4  0.2720  0.52  1.00  2.10  310.0  15.0 289.2  2.0    0  0.00   89. 1007.    5 NAD-SFC NoSubs
 9  5  6 126  6  -11.8  0.186 -9.000 -9.000 -999.  193.    49.2  0.2160  0.52  0.55  2.10  298.0  15.0 289.2  2.0    0  0.00   88. 1007.    4 NAD-SFC NoSubs
 9  5  6 126  7   29.9  0.193  0.618  0.005  283.  203.   -21.5  0.2720  0.52  0.30  1.50  302.0  15.0 289.2  2.0    0  0.00   87. 1008.    4 NAD-SFC NoSubs
 9  5  6 126  8   75.4  0.215  1.000  0.005  477.  240.   -11.9  0.2930  0.52  0.22  1.50  345.0  15.0 289.5  2.0    0  0.00   85. 1008.    3 NAD-SFC NoSubs
 9  5  6 126  9  116.0 -9.000 -9.000 -9.000  652. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 291.5  2.0    0  0.00   75. 1008.    3 NAD-SFC NoSubs
 9  5  6 126 10  147.9 -9.000 -9.000 -9.000  845. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 293.5  2.0    0  0.00   66. 1007.    2 NAD-SFC NoSubs
 9  5  6 126 11  169.9 -9.000 -9.000 -9.000 1000. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 295.4  2.0    0  0.00   57. 1007.    2 NAD-SFC NoSubs
 9  5  6 126 12  180.5 -9.000 -9.000 -9.000 1092. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 297.0  2.0    0  0.00   51. 1006.    2 NAD-SFC NoSubs
 9  5  6 126 13  179.9 -9.000 -9.000 -9.000 1176. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 298.2  2.0    0  0.00   45. 1005.    2 NAD-SFC NoSubs
 9  5  6 126 14  168.1  0.119  1.803  0.010 1251.   99.    -1.0  0.2720  0.52  0.19  0.50  310.0  15.0 299.5  2.0    0  0.00   40. 1004.    3 NAD-SFC NoSubs
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 9  5  6 126 15   145.1  0.290  1.745  0.010 1312.  375.    -15.1  0.2930  0.52  0.19   2.10  338.0  15.0  300.1   2.0    0   0.00   38.  1003.     3 NAD-SFC NoSubs
 9  5  6 126 16   111.9  0.421  1.617  0.011 1352.  656.    -59.6  0.2930  0.52  0.20   3.60  353.0  15.0  300.2   2.0    0   0.00   38.  1003.     3 NAD-SFC NoSubs
 9  5  6 126 17    69.3 -9.000 -9.000 -9.000 1373. -999. -99999.0  0.2235  0.52  0.23   0.00    0.0  15.0  299.8   2.0    0   0.00   46.  1002.     2 NAD-SFC NoSubs
 9  5  6 126 18    23.4  0.339  0.966  0.011 1378.  474.   -149.3  0.2940  0.52  0.33   3.10    1.0  15.0  299.1   2.0    0   0.00   54.  1003.     3 NAD-SFC NoSubs
 9  5  6 126 19   -32.6  0.355 -9.000 -9.000 -999.  508.    123.3  0.2930  0.52  0.65   3.60  344.0  15.0  298.0   2.0    0   0.00   56.  1003.     3 NAD-SFC NoSubs
 9  5  6 126 20   -36.0  0.355 -9.000 -9.000 -999.  507.    110.7  0.2930  0.52  1.00   3.60  333.0  15.0  296.8   2.0    0   0.00   61.  1003.     3 NAD-SFC NoSubs
 9  5  6 126 21   -35.4  0.347 -9.000 -9.000 -999.  491.    105.4  0.2720  0.52  1.00   3.60  328.0  15.0  295.2   2.0    0   0.00   68.  1003.     3 NAD-SFC NoSubs
 9  5  6 126 22   -36.3  0.355 -9.000 -9.000 -999.  507.    109.7  0.2930  0.52  1.00   3.60  341.0  15.0  294.1   2.0    0   0.00   73.  1003.     3 NAD-SFC NoSubs
 9  5  6 126 23   -31.2  0.303 -9.000 -9.000 -999.  402.     80.0  0.2930  0.52  1.00   3.10  341.0  15.0  293.2   2.0    0   0.00   77.  1004.     3 NAD-SFC NoSubs
 9  5  6 126 24   -29.5  0.297 -9.000 -9.000 -999.  388.     79.3  0.2720  0.52  1.00   3.10  328.0  15.0  292.2   2.0    0   0.00   81.  1004.     4 NAD-SFC NoSubs
 9  5  7 127  1   -30.3  0.303 -9.000 -9.000 -999.  401.     82.6  0.2930  0.52  1.00   3.10  334.0  15.0  291.2   2.0    0   0.00   87.  1004.     4 NAD-SFC NoSubs
 9  5  7 127  2   -29.7  0.297 -9.000 -9.000 -999.  388.     78.8  0.2720  0.52  1.00   3.10  318.0  15.0  290.5   2.0    0   0.00   91.  1004.     4 NAD-SFC NoSubs
 9  5  7 127  3   -28.3  0.297 -9.000 -9.000 -999.  389.     82.9  0.2720  0.52  1.00   3.10  322.0  15.0  289.9   2.0    0   0.00   94.  1004.     5 NAD-SFC NoSubs
 9  5  7 127  4   -28.4  0.297 -9.000 -9.000 -999.  389.     82.8  0.2720  0.52  1.00   3.10  311.0  15.0  289.4   2.0    0   0.00   95.  1004.     5 NAD-SFC NoSubs
 9  5  7 127  5   -28.5  0.297 -9.000 -9.000 -999.  389.     82.6  0.2720  0.52  1.00   3.10  313.0  15.0  288.9   2.0    0   0.00   96.  1005.     5 NAD-SFC NoSubs
 9  5  7 127  6   -15.2  0.250 -9.000 -9.000 -999.  301.     91.8  0.2720  0.52  0.55   2.60  307.0  15.0  288.8   2.0    0   0.00   96.  1005.     5 NAD-SFC NoSubs
 9  5  7 127  7    30.7  0.438  0.573  0.006  220.  695.   -245.2  0.2930  0.52  0.30   4.10  345.0  15.0  290.2   2.0    0   0.00   83.  1005.     5 NAD-SFC NoSubs
 9  5  7 127  8    76.2  0.364  0.936  0.006  386.  531.    -56.9  0.2930  0.52  0.22   3.10  342.0  15.0  291.2   2.0    0   0.00   76.  1005.     4 NAD-SFC NoSubs
 9  5  7 127  9   116.8  0.284  1.212  0.006  547.  367.    -17.6  0.2930  0.52  0.20   2.10  336.0  15.0  292.5   2.0    0   0.00   70.  1005.     3 NAD-SFC NoSubs
 9  5  7 127 10   148.6  0.232  1.429  0.006  704.  270.     -7.6  0.2930  0.52  0.19   1.50  344.0  15.0  293.9   2.0    0   0.00   64.  1005.     3 NAD-SFC NoSubs
 9  5  7 127 11   170.4  0.233  1.598  0.007  859.  269.     -6.6  0.2720  0.52  0.19   1.50  328.0  15.0  295.5   2.0    0   0.00   58.  1004.     2 NAD-SFC NoSubs
 9  5  7 127 12   180.7  0.292  1.713  0.007  996.  379.    -12.3  0.2720  0.52  0.19   2.10  326.0  15.0  296.8   2.0    0   0.00   52.  1003.     2 NAD-SFC NoSubs
 9  5  7 127 13   180.0  0.339  1.773  0.007 1109.  473.    -19.3  0.2720  0.52  0.19   2.60  327.0  15.0  297.8   2.0    0   0.00   47.  1002.     2 NAD-SFC NoSubs
 9  5  7 127 14   168.2  0.434  1.783  0.007 1206.  687.    -43.6  0.2930  0.52  0.19   3.60  334.0  15.0  298.8   2.0    0   0.00   41.  1002.     2 NAD-SFC NoSubs
 9  5  7 127 15   144.9  0.521  1.732  0.008 1283.  901.    -87.1  0.2930  0.52  0.19   4.60  339.0  15.0  299.0   2.0    0   0.00   39.  1001.     2 NAD-SFC NoSubs
 9  5  7 127 16   111.3  0.560  1.609  0.008 1337. 1004.   -140.7  0.2930  0.52  0.20   5.10  336.0  15.0  298.8   2.0    0   0.00   41.  1001.     2 NAD-SFC NoSubs
 9  5  7 127 17    69.2  0.454  1.382  0.008 1365.  744.   -120.7  0.2930  0.52  0.23   4.10  338.0  15.0  298.1   2.0    0   0.00   48.  1001.     2 NAD-SFC NoSubs
 9  5  7 127 18    21.9  0.379  0.944  0.008 1372.  564.   -221.0  0.2720  0.52  0.33   3.60  329.0  15.0  297.2   2.0    0   0.00   55.  1001.     2 NAD-SFC NoSubs
 9  5  7 127 19   -33.1  0.347 -9.000 -9.000 -999.  492.    113.3  0.2720  0.52  0.64   3.60  316.0  15.0  295.5   2.0    0   0.00   57.  1002.     2 NAD-SFC NoSubs
 9  5  7 127 20   -31.2  0.296 -9.000 -9.000 -999.  389.     74.7  0.2720  0.52  1.00   3.10  309.0  15.0  294.1   2.0    0   0.00   59.  1002.     2 NAD-SFC NoSubs
 9  5  7 127 21   -24.5  0.246 -9.000 -9.000 -999.  294.     54.5  0.2720  0.52  1.00   2.60  301.0  15.0  293.2   2.0    0   0.00   58.  1001.     3 NAD-SFC NoSubs
 9  5  7 127 22   -14.3  0.183 -9.000 -9.000 -999.  189.     38.2  0.2160  0.52  1.00   2.10  288.0  15.0  292.2   2.0    0   0.00   59.  1001.     2 NAD-SFC NoSubs
 9  5  7 127 23    -3.6  0.097 -9.000 -9.000 -999.   75.     22.4  0.2160  0.52  1.00   1.00  286.0  15.0  291.4   2.0    0   0.00   60.  1001.     2 NAD-SFC NoSubs
 9  5  7 127 24    -1.6  0.083 -9.000 -9.000 -999.   58.     31.9  0.2720  0.52  1.00   0.50  303.0  15.0  290.8   2.0    0   0.00   60.  1001.     2 NAD-SFC NoSubs
 9  5  8 128  1  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  290.2   2.0    0   0.00   61.  1001.     2 NAD-SFC NoSubs
 9  5  8 128  2    -1.6  0.083 -9.000 -9.000 -999.   58.     31.9  0.2720  0.52  1.00   0.50  308.0  15.0  289.6   2.0    0   0.00   62.  1001.     2 NAD-SFC NoSubs
 9  5  8 128  3    -1.5  0.081 -9.000 -9.000 -999.   56.     31.5  0.2160  0.52  1.00   0.50  287.0  15.0  288.9   2.0    0   0.00   64.  1001.     2 NAD-SFC NoSubs
 9  5  8 128  4    -3.6  0.097 -9.000 -9.000 -999.   73.     22.4  0.2160  0.52  1.00   1.00  289.0  15.0  288.2   2.0    0   0.00   65.  1001.     2 NAD-SFC NoSubs
 9  5  8 128  5    -7.2  0.129 -9.000 -9.000 -999.  111.     26.3  0.2160  0.52  1.00   1.50  287.0  15.0  287.6   2.0    0   0.00   67.  1001.     2 NAD-SFC NoSubs
 9  5  8 128  6    -2.8  0.090 -9.000 -9.000 -999.   65.     22.8  0.2160  0.52  0.54   1.00  276.0  15.0  287.2   2.0    0   0.00   68.  1001.     2 NAD-SFC NoSubs
 9  5  8 128  7    29.2  0.192  0.565  0.009  220.  203.    -21.7  0.2720  0.52  0.30   1.50  329.0  15.0  288.5   2.0    0   0.00   61.  1001.     2 NAD-SFC NoSubs
 9  5  8 128  8    76.0  0.107  0.870  0.008  309.   87.     -1.4  0.2720  0.52  0.22   0.50  316.0  15.0  290.2   2.0    0   0.00   53.  1001.     2 NAD-SFC NoSubs
 9  5  8 128  9   116.8 -9.000 -9.000 -9.000  433. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  291.9   2.0    0   0.00   47.  1001.     2 NAD-SFC NoSubs
 9  5  8 128 10   148.8  0.111  1.377  0.010  626.   89.     -1.0  0.2160  0.52  0.19   0.50  274.0  15.0  293.5   2.0    0   0.00   42.  1001.     2 NAD-SFC NoSubs
 9  5  8 128 11   170.6  0.114  1.530  0.010  750.   92.     -1.0  0.2160  0.52  0.19   0.50  286.0  15.0  295.2   2.0    0   0.00   38.  1000.     2 NAD-SFC NoSubs
 9  5  8 128 12   181.1  0.114  1.631  0.011  855.   93.     -1.0  0.2160  0.52  0.19   0.50  296.0  15.0  296.8   2.0    0   0.00   34.   999.     2 NAD-SFC NoSubs
 9  5  8 128 13   180.6  0.182  1.687  0.012  948.  186.     -3.0  0.2720  0.52  0.19   1.00  324.0  15.0  298.2   2.0    0   0.00   30.   999.     2 NAD-SFC NoSubs
 9  5  8 128 14   168.8  0.233  1.691  0.012 1022.  269.     -6.6  0.2720  0.52  0.19   1.50  329.0  15.0  299.2   2.0    0   0.00   28.   998.     2 NAD-SFC NoSubs
 9  5  8 128 15   145.7  0.338  1.640  0.013 1079.  471.    -23.5  0.2930  0.52  0.19   2.60  336.0  15.0  299.9   2.0    0   0.00   27.   998.     2 NAD-SFC NoSubs
 9  5  8 128 16   112.3  0.376  1.523  0.013 1121.  552.    -42.0  0.2930  0.52  0.20   3.10  346.0  15.0  300.1   2.0    0   0.00   27.   997.     2 NAD-SFC NoSubs
 9  5  8 128 17    70.3  0.317  1.313  0.013 1146.  430.    -40.1  0.2930  0.52  0.23   2.60  348.0  15.0  299.8   2.0    0   0.00   32.   997.     2 NAD-SFC NoSubs
 9  5  8 128 18    23.3  0.247  0.910  0.013 1152.  296.    -57.4  0.2940  0.52  0.33   2.10    2.0  15.0  299.2   2.0    0   0.00   38.   998.     2 NAD-SFC NoSubs
 9  5  8 128 19    -7.7  0.140 -9.000 -9.000 -999.  131.     31.7  0.2930  0.52  0.63   1.50  356.0  15.0  298.2   2.0    0   0.00   40.   998.     2 NAD-SFC NoSubs
 9  5  8 128 20    -4.0  0.102 -9.000 -9.000 -999.   78.     23.7  0.2930  0.52  1.00   1.00  339.0  15.0  296.9   2.0    0   0.00   44.   998.     2 NAD-SFC NoSubs
 9  5  8 128 21    -3.9  0.100 -9.000 -9.000 -999.   76.     23.3  0.2720  0.52  1.00   1.00  325.0  15.0  295.5   2.0    0   0.00   49.   998.     2 NAD-SFC NoSubs
 9  5  8 128 22    -3.6  0.096 -9.000 -9.000 -999.   72.     22.4  0.2160  0.52  1.00   1.00  292.0  15.0  294.1   2.0    0   0.00   53.   998.     2 NAD-SFC NoSubs
 9  5  8 128 23    -7.9  0.137 -9.000 -9.000 -999.  122.     28.8  0.2720  0.52  1.00   1.50  301.0  15.0  293.0   2.0    0   0.00   56.   999.     2 NAD-SFC NoSubs
 9  5  8 128 24   -15.9  0.195 -9.000 -9.000 -999.  207.     41.8  0.2720  0.52  1.00   2.10  322.0  15.0  292.1   2.0    0   0.00   58.   999.     2 NAD-SFC NoSubs
 9  5  9 129  1    -8.2  0.140 -9.000 -9.000 -999.  126.     29.5  0.2930  0.52  1.00   1.50  342.0  15.0  291.1   2.0    0   0.00   60.   999.     2 NAD-SFC NoSubs
 9  5  9 129  2    -4.0  0.102 -9.000 -9.000 -999.   79.     23.6  0.2930  0.52  1.00   1.00  345.0  15.0  290.2   2.0    0   0.00   63.   999.     2 NAD-SFC NoSubs
 9  5  9 129  3    -3.9  0.101 -9.000 -9.000 -999.   77.     23.3  0.2720  0.52  1.00   1.00  313.0  15.0  289.4   2.0    0   0.00   66.  1000.     2 NAD-SFC NoSubs
 9  5  9 129  4    -7.2  0.129 -9.000 -9.000 -999.  111.     26.4  0.2160  0.52  1.00   1.50  295.0  15.0  288.8   2.0    0   0.00   67.  1000.     2 NAD-SFC NoSubs
 9  5  9 129  5    -7.2  0.129 -9.000 -9.000 -999.  111.     26.4  0.2160  0.52  1.00   1.50  289.0  15.0  288.2   2.0    0   0.00   66.  1000.     2 NAD-SFC NoSubs
 9  5  9 129  6    -6.0  0.129 -9.000 -9.000 -999.  111.     32.1  0.2160  0.52  0.53   1.50  283.0  15.0  288.0   2.0    0   0.00   65.  1001.     2 NAD-SFC NoSubs
 9  5  9 129  7    30.1  0.247  0.454  0.008  111.  295.    -44.8  0.2720  0.52  0.30   2.10  326.0  15.0  289.4   2.0    0   0.00   56.  1001.     2 NAD-SFC NoSubs
 9  5  9 129  8    76.9  0.107  0.782  0.009  222.  100.     -1.4  0.2720  0.52  0.22   0.50  326.0  15.0  291.1   2.0    0   0.00   50.  1001.     2 NAD-SFC NoSubs
 9  5  9 129  9   117.7 -9.000 -9.000 -9.000  376. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  293.2   2.0    0   0.00   42.  1001.     2 NAD-SFC NoSubs
 9  5  9 129 10   149.8 -9.000 -9.000 -9.000  548. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  295.0   2.0    0   0.00   38.  1001.     2 NAD-SFC NoSubs
 9  5  9 129 11   171.6 -9.000 -9.000 -9.000  707. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  296.8   2.0    0   0.00   33.  1001.     2 NAD-SFC NoSubs
 9  5  9 129 12   182.1 -9.000 -9.000 -9.000  863. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  298.4   2.0    0   0.00   30.  1000.     2 NAD-SFC NoSubs
 9  5  9 129 13   181.6  0.121  1.711  0.011  984.  100.     -1.0  0.2720  0.52  0.19   0.50  313.0  15.0  299.8   2.0    0   0.00   27.   999.     2 NAD-SFC NoSubs
 9  5  9 129 14   169.9  0.233  1.707  0.011 1045.  270.     -6.6  0.2720  0.52  0.19   1.50  326.0  15.0  300.9   2.0    0   0.00   25.   999.     2 NAD-SFC NoSubs
 9  5  9 129 15   146.7  0.291  1.652  0.011 1095.  376.    -14.9  0.2930  0.52  0.19   2.10  352.0  15.0  301.4   2.0    0   0.00   24.   998.     2 NAD-SFC NoSubs
 9  5  9 129 16   113.4  0.376  1.532  0.011 1131.  553.    -41.7  0.2930  0.52  0.20   3.10  360.0  15.0  301.5   2.0    0   0.00   25.   998.     2 NAD-SFC NoSubs
 9  5  9 129 17    71.2 -9.000 -9.000 -9.000 1152. -999. -99999.0  0.2235  0.52  0.23   0.00    0.0  15.0  300.6   2.0    0   0.00   34.   998.     2 NAD-SFC NoSubs
 9  5  9 129 18    24.1 -9.000 -9.000 -9.000 1158. -999. -99999.0  0.2235  0.52  0.33   0.00    0.0  15.0  299.8   2.0    0   0.00   41.   998.     2 NAD-SFC NoSubs
 9  5  9 129 19   -32.2  0.355 -9.000 -9.000 -999.  509.    124.3  0.2930  0.52  0.63   3.60  348.0  15.0  298.8   2.0    0   0.00   42.   999.     2 NAD-SFC NoSubs
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9	5	9	129	20	-31.4	0.303	-9.000	-9.000	-999.	402.	79.0	0.2930	0.52	1.00	3.10	337.0	15.0	297.2	2.0	0	0.00	45.	999.	2	NAD-SFC	NoSubs
9	5	9	129	21	-30.9	0.297	-9.000	-9.000	-999.	388.	75.2	0.2720	0.52	1.00	3.10	323.0	15.0	295.8	2.0	0	0.00	49.	999.	2	NAD-SFC	NoSubs
9	5	9	129	22	-24.7	0.246	-9.000	-9.000	-999.	294.	53.8	0.2720	0.52	1.00	2.60	310.0	15.0	294.4	2.0	0	0.00	53.	1000.	2	NAD-SFC	NoSubs
9	5	9	129	23	-22.2	0.231	-9.000	-9.000	-999.	266.	49.1	0.2160	0.52	1.00	2.60	299.0	15.0	293.2	2.0	0	0.00	55.	1000.	2	NAD-SFC	NoSubs
9	5	9	129	24	-31.3	0.296	-9.000	-9.000	-999.	387.	74.3	0.2720	0.52	1.00	3.10	303.0	15.0	292.4	2.0	0	0.00	56.	1000.	2	NAD-SFC	NoSubs
9	5	10	130	1	-36.7	0.347	-9.000	-9.000	-999.	490.	101.3	0.2720	0.52	1.00	3.60	321.0	15.0	291.6	2.0	0	0.00	58.	1000.	2	NAD-SFC	NoSubs
9	5	10	130	2	-37.6	0.354	-9.000	-9.000	-999.	506.	105.4	0.2930	0.52	1.00	3.60	345.0	15.0	290.4	2.0	0	0.00	63.	1000.	2	NAD-SFC	NoSubs
9	5	10	130	3	-25.8	0.251	-9.000	-9.000	-999.	308.	54.9	0.2930	0.52	1.00	2.60	336.0	15.0	289.5	2.0	0	0.00	67.	1000.	2	NAD-SFC	NoSubs
9	5	10	130	4	-4.1	0.102	-9.000	-9.000	-999.	100.	23.6	0.2930	0.52	1.00	1.00	348.0	15.0	288.8	2.0	0	0.00	69.	1001.	2	NAD-SFC	NoSubs
9	5	10	130	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	288.2	2.0	0	0.00	72.	1001.	2	NAD-SFC	NoSubs
9	5	10	130	6	-1.0	0.069	-9.000	-9.000	-999.	43.	27.7	0.2160	0.52	0.53	0.50	296.0	15.0	287.8	2.0	0	0.00	73.	1002.	2	NAD-SFC	NoSubs
9	5	10	130	7	30.7	0.248	0.480	0.009	128.	296.	-44.2	0.2720	0.52	0.29	2.10	320.0	15.0	289.2	2.0	0	0.00	65.	1002.	2	NAD-SFC	NoSubs
9	5	10	130	8	77.4	0.107	0.810	0.010	245.	100.	-1.4	0.2720	0.52	0.22	0.50	312.0	15.0	291.0	2.0	0	0.00	57.	1002.	2	NAD-SFC	NoSubs
9	5	10	130	9	118.1	-9.000	-9.000	-9.000	363.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	293.1	2.0	0	0.00	48.	1002.	2	NAD-SFC	NoSubs
9	5	10	130	10	150.1	-9.000	-9.000	-9.000	518.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.9	2.0	0	0.00	42.	1001.	2	NAD-SFC	NoSubs
9	5	10	130	11	171.9	0.114	1.474	0.007	666.	92.	-1.0	0.2160	0.52	0.19	0.50	285.0	15.0	296.6	2.0	0	0.00	38.	1001.	2	NAD-SFC	NoSubs
9	5	10	130	12	182.3	-9.000	-9.000	-9.000	829.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.1	2.0	0	0.00	35.	1000.	2	NAD-SFC	NoSubs
9	5	10	130	13	181.9	-9.000	-9.000	-9.000	965.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.6	2.0	0	0.00	32.	999.	2	NAD-SFC	NoSubs
9	5	10	130	14	170.1	0.183	1.717	0.009	1061.	188.	-3.2	0.2930	0.52	0.19	1.00	338.0	15.0	300.6	2.0	0	0.00	29.	998.	2	NAD-SFC	NoSubs
9	5	10	130	15	147.0	0.291	1.673	0.009	1136.	377.	-14.9	0.2940	0.52	0.19	2.10	2.0	15.0	301.2	2.0	0	0.00	28.	998.	2	NAD-SFC	NoSubs
9	5	10	130	16	113.9	-9.000	-9.000	-9.000	1191.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	301.8	2.0	0	0.00	34.	997.	2	NAD-SFC	NoSubs
9	5	10	130	17	72.1	0.363	1.353	0.010	1223.	525.	-59.1	0.2940	0.52	0.23	3.10	7.0	15.0	301.4	2.0	0	0.00	39.	997.	2	NAD-SFC	NoSubs
9	5	10	130	18	25.1	0.294	0.955	0.010	1233.	385.	-89.9	0.2940	0.52	0.32	2.60	15.0	15.0	300.9	2.0	0	0.00	45.	998.	2	NAD-SFC	NoSubs
9	5	10	130	19	-22.3	0.253	-9.000	-9.000	-999.	306.	64.6	0.2930	0.52	0.62	2.60	346.0	15.0	299.9	2.0	0	0.00	45.	998.	2	NAD-SFC	NoSubs
9	5	10	130	20	-31.3	0.303	-9.000	-9.000	-999.	401.	79.3	0.2930	0.52	1.00	3.10	332.0	15.0	298.6	2.0	0	0.00	46.	998.	2	NAD-SFC	NoSubs
9	5	10	130	21	-41.2	0.397	-9.000	-9.000	-999.	600.	135.5	0.2720	0.52	1.00	4.10	313.0	15.0	297.2	2.0	0	0.00	46.	999.	2	NAD-SFC	NoSubs
9	5	10	130	22	-41.4	0.397	-9.000	-9.000	-999.	600.	134.7	0.2720	0.52	1.00	4.10	308.0	15.0	295.5	2.0	0	0.00	49.	999.	2	NAD-SFC	NoSubs
9	5	10	130	23	-36.3	0.347	-9.000	-9.000	-999.	492.	102.2	0.2720	0.52	1.00	3.60	323.0	15.0	294.1	2.0	0	0.00	53.	999.	2	NAD-SFC	NoSubs
9	5	10	130	24	-37.3	0.354	-9.000	-9.000	-999.	506.	106.2	0.2930	0.52	1.00	3.60	345.0	15.0	292.8	2.0	0	0.00	60.	1000.	2	NAD-SFC	NoSubs
9	5	11	131	1	-32.0	0.303	-9.000	-9.000	-999.	402.	77.4	0.2930	0.52	1.00	3.10	337.0	15.0	291.8	2.0	0	0.00	65.	1000.	2	NAD-SFC	NoSubs
9	5	11	131	2	-16.5	0.200	-9.000	-9.000	-999.	219.	43.0	0.2930	0.52	1.00	2.10	347.0	15.0	290.8	2.0	0	0.00	68.	1001.	2	NAD-SFC	NoSubs
9	5	11	131	3	-8.3	0.140	-9.000	-9.000	-999.	126.	29.4	0.2930	0.52	1.00	1.50	346.0	15.0	290.1	2.0	0	0.00	70.	1001.	2	NAD-SFC	NoSubs
9	5	11	131	4	-8.3	0.140	-9.000	-9.000	-999.	125.	29.4	0.2930	0.52	1.00	1.50	345.0	15.0	289.4	2.0	0	0.00	72.	1001.	2	NAD-SFC	NoSubs
9	5	11	131	5	-4.1	0.102	-9.000	-9.000	-999.	79.	23.6	0.2930	0.52	1.00	1.00	342.0	15.0	288.8	2.0	0	0.00	74.	1002.	2	NAD-SFC	NoSubs
9	5	11	131	6	-2.9	0.093	-9.000	-9.000	-999.	68.	24.8	0.2720	0.52	0.52	1.00	328.0	15.0	288.2	2.0	0	0.00	76.	1002.	2	NAD-SFC	NoSubs
9	5	11	131	7	31.3	0.252	0.537	0.009	177.	304.	-45.8	0.2930	0.52	0.29	2.10	347.0	15.0	289.2	2.0	0	0.00	68.	1003.	2	NAD-SFC	NoSubs
9	5	11	131	8	77.9	0.166	0.844	0.010	276.	165.	-5.3	0.2930	0.52	0.22	1.00	349.0	15.0	290.9	2.0	0	0.00	61.	1003.	2	NAD-SFC	NoSubs
9	5	11	131	9	118.4	-9.000	-9.000	-9.000	369.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	292.8	2.0	0	0.00	56.	1003.	2	NAD-SFC	NoSubs
9	5	11	131	10	150.4	0.112	1.294	0.007	515.	89.	-1.0	0.2160	0.52	0.19	0.50	286.0	15.0	294.5	2.0	0	0.00	49.	1002.	2	NAD-SFC	NoSubs
9	5	11	131	11	172.1	0.180	1.467	0.006	656.	184.	-3.1	0.2720	0.52	0.19	1.00	305.0	15.0	296.2	2.0	0	0.00	44.	1002.	2	NAD-SFC	NoSubs
9	5	11	131	12	182.5	0.235	1.623	0.007	837.	273.	-6.3	0.2720	0.52	0.19	1.50	323.0	15.0	297.8	2.0	0	0.00	39.	1001.	2	NAD-SFC	NoSubs
9	5	11	131	13	181.8	0.292	1.710	0.008	983.	379.	-12.3	0.2720	0.52	0.19	2.10	323.0	15.0	298.8	2.0	0	0.00	37.	1001.	2	NAD-SFC	NoSubs
9	5	11	131	14	170.0	0.343	1.727	0.009	1082.	481.	-21.1	0.2930	0.52	0.19	2.60	337.0	15.0	299.6	2.0	0	0.00	35.	1000.	2	NAD-SFC	NoSubs
9	5	11	131	15	146.8	0.384	1.683	0.009	1160.	570.	-34.3	0.2930	0.52	0.19	3.10	345.0	15.0	300.0	2.0	0	0.00	35.	1000.	2	NAD-SFC	NoSubs
9	5	11	131	16	113.5	0.467	1.570	0.009	1217.	766.	-80.0	0.2930	0.52	0.20	4.10	352.0	15.0	300.0	2.0	0	0.00	37.	999.	2	NAD-SFC	NoSubs
9	5	11	131	17	71.7	0.455	1.359	0.009	1250.	737.	-116.9	0.2930	0.52	0.23	4.10	356.0	15.0	299.4	2.0	0	0.00	45.	999.	2	NAD-SFC	NoSubs
9	5	11	131	18	25.8	0.388	0.969	0.009	1258.	583.	-201.7	0.2930	0.52	0.32	3.60	352.0	15.0	298.2	2.0	0	0.00	56.	1000.	3	NAD-SFC	NoSubs
9	5	11	131	19	-39.5	0.459	-9.000	-9.000	-999.	746.	218.8	0.2930	0.52	0.61	4.60	355.0	15.0	296.1	2.0	0	0.00	64.	1000.	3	NAD-SFC	NoSubs
9	5	11	131	20	-41.5	0.406	-9.000	-9.000	-999.	623.	143.9	0.2930	0.52	1.00	4.10	344.0	15.0	294.2	2.0	0	0.00	71.	1000.	3	NAD-SFC	NoSubs
9	5	11	131	21	-36.4	0.355	-9.000	-9.000	-999.	509.	109.3	0.2930	0.52	1.00	3.60	336.0	15.0	293.2	2.0	0	0.00	74.	1001.	3	NAD-SFC	NoSubs
9	5	11	131	22	-30.1	0.304	-9.000	-9.000	-999.	403.	83.0	0.2930	0.52	1.00	3.10	344.0	15.0	292.5	2.0	0	0.00	74.	1001.	4	NAD-SFC	NoSubs
9	5	11	131	23	-35.3	0.355	-9.000	-9.000	-999.	507.	113.0	0.2930	0.52	1.00	3.60	332.0	15.0	291.6	2.0	0	0.00	77.	1002.	4	NAD-SFC	NoSubs
9	5	11	131	24	-34.7	0.347	-9.000	-9.000	-999.	491.	107.7	0.2720	0.52	1.00	3.60	328.0	15.0	290.4	2.0	0	0.00	80.	1002.	4	NAD-SFC	NoSubs
9	5	12	132	1	-34.8	0.347	-9.000	-9.000	-999.	491.	107.4	0.2720	0.52	1.00	3.60	326.0	15.0	289.4	2.0	0	0.00	79.	1002.	4	NAD-SFC	NoSubs
9	5	12	132	2	-29.8	0.297	-9.000	-9.000	-999.	389.	78.3	0.2720	0.52	1.00	3.10	329.0	15.0	288.6	2.0	0	0.00	80.	1002.	4	NAD-SFC	NoSubs
9	5	12	132	3	-25.2	0.252	-9.000	-9.000	-999.	304.	56.7	0.2930	0.52	1.00	2.60	332.0	15.0	287.9	2.0	0	0.00	80.	1003.	4	NAD-SFC	NoSubs
9	5	12	132	4	-24.7	0.246	-9.000	-9.000	-999.	293.	53.8	0.2720	0.52	1.00	2.60	322.0	15.0	287.2	2.0	0	0.00	80.	1003.	3	NAD-SFC	NoSubs
9	5	12	132	5	-15.9	0.195	-9.000	-9.000	-999.	208.	42.0	0.2720	0.52	1.00	2.10	309.0	15.0	286.9	2.0	0	0.00	81.	1003.	3	NAD-SFC	NoSubs
9	5	12	132	6	-5.6	0.130	-9.000	-9.000	-999.	113.	35.2	0.2160	0.52	0.52	1.50	296.0	15.0	286.6	2.0	0	0.00	81.	1004.	3	NAD-SFC	NoSubs
9	5	12	132	7	32.6	0.253	0.595	0.008	231.	305.	-44.4	0.2930	0.52	0.29	2.10	339.0	15.0	287.6	2.0	0	0.00	72.	1004.	3	NAD-SFC	NoSubs
9	5	12	132	8	78.5	0.107	0.939	0.008	377.	102.	-1.4	0.2720	0.52	0.22	0.50	328.0	15.0	288.9	2.0	0	0.00	67.	1004.	3	NAD-SFC	NoSubs
9	5	12	132	9	118.2	-9.000	-9.000	-9.000	503.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	290.5	2.0	0	0.00	62.	1003.	2	NAD-SFC	NoSubs
9	5	12	132	10	150.0	0.111	1.379	0.007	626.	89.	-1.0	0.2160	0.52	0.19	0.50	295.0	15.0	292.2	2.0	0	0.00	58.	1003.	2	NAD-SFC	NoSubs
9	5	12	132	11	171.7	0.120	1.548	0.007	773.	99.	-1.0	0.2720	0.52	0.19	0.50	312.0	15.0	294.0	2.0	0	0.00	52.	1002.	2	NAD-SFC	NoSubs
9	5	12	132	12	182.0	0.235	1.668	0.008	913.	273.	-6.3	0.2720	0.52	0.19	1.50	322.0	15.0	295.5	2.0	0	0.00	48.	1001.	2	NAD-SFC	NoSubs
9	5	12	132	13	181.3	0.292	1.735	0.009	1029.	379.	-12.3	0.2720	0.52	0.19	2.10	325.0	15.0	296.8	2.0	0	0.00	44.	1001.	2	NAD-SFC	NoSubs
9	5	12	132	14	169.6	0.382	1.748	0.010	1126.	567.	-29.3	0.2720	0.52	0.19	3.10	326.0	15.0	297.8	2.0	0	0.00	40.	1000.	2	NAD-SFC	NoSubs
9	5	12	132	15	146.4	0.475	1.702	0.011	1202.	785.	-65.3	0.2930	0.52	0.19	4.10	344.0	15.0	298.2	2.0	0	0.00	36.	1000.	2	NAD-SFC	NoSubs
9	5	12	132	16	113.2	0.560	1.585	0.011	1257.	1005.	-138.5	0.2930	0.52	0.20	5.10	355.0	15.0	298.2	2.0	0	0.00	36.	1000.	2	NAD-SFC	NoSubs
9	5	12	132	17	71.4	0.502	1.370	0.012	1289.	857.	-157.8	0.2930	0.52	0.23	4.60	353.0	15.0	297.4	2.0	0	0.00	43.	1001.	2	NAD-SFC	NoSubs
9	5	12	132	18	24.2	0.427	0.958	0.012	1297.	674.	-286.4	0.2720	0.52	0.32	4.10	327.0	15.0	296.1	2.0	0	0.00	52.	1001.	2	NAD-SFC	NoSubs
9	5	12	132	19	-35.8	0.398	-9.000	-9.000	-999.	604.	157.5	0.2720	0.52	0.61	4.10	325.0	15.0	293.9	2.0	0	0.00	56.	1002.	2	NAD-SFC	NoSubs
9	5	12	132	20	-42.0	0.397	-9.000	-9.000	-999.	600.	133.1	0.2720	0.52	1.00	4.10	322.0	15.0	292.2	2.0	0	0.00	59.	1002.	2	NAD-SFC	NoSubs
9	5	12	132	21	-36.8	0.347	-9.000	-9.000	-999.	492.	101.2	0.2720	0.52	1.00	3.60	309.0	15.0	291.2	2.0	0	0.00	59.	1002.	2	NAD-SFC	NoSubs
9	5	12	132	22	-24.9	0.246	-9.000	-9.000	-999.	298.	53.4	0.2720	0.52	1.00	2.60	302.0	15.0	290.6	2.0	0	0.00	58.	1002.	2	NAD-SFC	NoSubs
9	5	12	132	23	-7.2	0.129	-9.000	-9.000	-999.	119.	26.4	0.2160	0.52	1.00	1.50	294.0	15.0	290.0	2.0	0	0.00	58.	1002.	2	NAD-SFC	NoSubs
9	5	12	132	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	289.4	2.0	0	0.00	59.	1002.	2	NAD-SFC	NoSubs

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 9  5 13 133  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 289.1  2.0  0  0.00  58. 1002.  2 NAD-SFC NoSubs
 9  5 13 133  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 288.8  2.0  0  0.00  58. 1002.  2 NAD-SFC NoSubs
 9  5 13 133  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 288.0  2.0  0  0.00  60. 1002.  2 NAD-SFC NoSubs
 9  5 13 133  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 287.2  2.0  0  0.00  64. 1002.  2 NAD-SFC NoSubs
 9  5 13 133  5   -1.4  0.080 -9.000 -9.000 -999.   54.     31.1 0.1750  0.52  1.00  0.50 248.0  15.0 286.8  2.0  0  0.00  66. 1002.  2 NAD-SFC NoSubs
 9  5 13 133  6   -2.4  0.084 -9.000 -9.000 -999.   59.     22.3 0.1750  0.52  0.51  1.00 247.0  15.0 286.4  2.0  0  0.00  66. 1003.  2 NAD-SFC NoSubs
 9  5 13 133  7   32.2  0.140  0.560  0.007  195.  126.     -7.7 0.2160  0.52  0.29  1.00 294.0  15.0 288.4  2.0  0  0.00  57. 1003.  2 NAD-SFC NoSubs
 9  5 13 133  8   78.7  0.156  0.957  0.007  399.  147.     -4.3 0.2160  0.52  0.22  1.00 299.0  15.0 290.2  2.0  0  0.00  49. 1003.  2 NAD-SFC NoSubs
 9  5 13 133  9  119.0  0.108  1.210  0.007  533.   85.     -1.0 0.2160  0.52  0.20  0.50 294.0  15.0 291.8  2.0  0  0.00  44. 1003.  2 NAD-SFC NoSubs
 9  5 13 133 10  150.7  0.112  1.412  0.008  668.   89.     -1.0 0.2160  0.52  0.19  0.50 288.0  15.0 293.2  2.0  0  0.00  39. 1002.  2 NAD-SFC NoSubs
 9  5 13 133 11  172.4  0.181  1.583  0.009  823.  184.     -3.0 0.2720  0.52  0.19  1.00 308.0  15.0 295.1  2.0  0  0.00  34. 1002.  2 NAD-SFC NoSubs
 9  5 13 133 12  182.7  0.292  1.700  0.010  963.  380.    -12.2 0.2720  0.52  0.19  2.10 316.0  15.0 296.6  2.0  0  0.00  30. 1001.  2 NAD-SFC NoSubs
 9  5 13 133 13  182.0  0.345  1.745  0.010 1044.  486.    -20.1 0.2930  0.52  0.19  2.60 334.0  15.0 297.8  2.0  0  0.00  29. 1001.  2 NAD-SFC NoSubs
 9  5 13 133 14  170.2  0.435  1.743  0.011 1113.  688.    -43.1 0.2930  0.52  0.19  3.60 339.0  15.0 298.5  2.0  0  0.00  29. 1001.  2 NAD-SFC NoSubs
 9  5 13 133 15  147.1  0.521  1.688  0.011 1169.  903.    -86.0 0.2930  0.52  0.19  4.60 355.0  15.0 298.9  2.0  0  0.00  29. 1001.  2 NAD-SFC NoSubs
 9  5 13 133 16  113.9  0.560  1.568  0.011 1210. 1006.   -137.9 0.2930  0.52  0.20  5.10 352.0  15.0 299.0  2.0  0  0.00  31. 1001.  2 NAD-SFC NoSubs
 9  5 13 133 17   72.2  0.409  1.356  0.011 1234.  647.    -84.3 0.2930  0.52  0.23  3.60 342.0  15.0 298.4  2.0  0  0.00  41. 1001.  2 NAD-SFC NoSubs
 9  5 13 133 18   25.2  0.381  0.956  0.011 1241.  565.   -195.7 0.2720  0.52  0.32  3.60 322.0  15.0 297.2  2.0  0  0.00  48. 1002.  2 NAD-SFC NoSubs
 9  5 13 133 19  -39.4  0.449 -9.000 -9.000 -999.  722.    205.3 0.2720  0.52  0.60  4.60 318.0  15.0 295.2  2.0  0  0.00  52. 1002.  2 NAD-SFC NoSubs
 9  5 13 133 20  -41.8  0.397 -9.000 -9.000 -999.  603.    133.7 0.2720  0.52  1.00  4.10 321.0  15.0 293.4  2.0  0  0.00  57. 1002.  2 NAD-SFC NoSubs
 9  5 13 133 21  -36.7  0.347 -9.000 -9.000 -999.  492.    101.6 0.2720  0.52  1.00  3.60 309.0  15.0 292.5  2.0  0  0.00  59. 1003.  2 NAD-SFC NoSubs
 9  5 13 133 22  -29.5  0.278 -9.000 -9.000 -999.  354.     65.2 0.2160  0.52  1.00  3.10 292.0  15.0 292.0  2.0  0  0.00  59. 1003.  2 NAD-SFC NoSubs
 9  5 13 133 23   -6.6  0.122 -9.000 -9.000 -999.  124.     24.8 0.1750  0.52  1.00  1.50 267.0  15.0 291.5  2.0  0  0.00  60. 1003.  2 NAD-SFC NoSubs
 9  5 13 133 24   -3.4  0.094 -9.000 -9.000 -999.   69.     21.7 0.1750  0.52  1.00  1.00 247.0  15.0 291.1  2.0  0  0.00  61. 1003.  2 NAD-SFC NoSubs
 9  5 14 134  1   -1.5  0.080 -9.000 -9.000 -999.   54.     31.2 0.1950  0.52  1.00  0.50 228.0  15.0 290.8  2.0  0  0.00  63. 1003.  2 NAD-SFC NoSubs
 9  5 14 134  2   -3.4  0.094 -9.000 -9.000 -999.   69.     21.7 0.1750  0.52  1.00  1.00 255.0  15.0 290.5  2.0  0  0.00  65. 1004.  2 NAD-SFC NoSubs
 9  5 14 134  3   -3.6  0.096 -9.000 -9.000 -999.   72.     22.4 0.2160  0.52  1.00  1.00 274.0  15.0 290.2  2.0  0  0.00  68. 1004.  3 NAD-SFC NoSubs
 9  5 14 134  4   -6.6  0.122 -9.000 -9.000 -999.  103.     25.0 0.1750  0.52  1.00  1.50 258.0  15.0 289.8  2.0  0  0.00  71. 1004.  3 NAD-SFC NoSubs
 9  5 14 134  5   -6.6  0.122 -9.000 -9.000 -999.  103.     25.0 0.1750  0.52  1.00  1.50 261.0  15.0 289.5  2.0  0  0.00  74. 1004.  3 NAD-SFC NoSubs
 9  5 14 134  6   -4.8  0.123 -9.000 -9.000 -999.  104.     35.0 0.1750  0.52  0.51  1.50 250.0  15.0 289.1  2.0  0  0.00  76. 1004.  3 NAD-SFC NoSubs
 9  5 14 134  7   34.3  0.195  0.666  0.008  309.  207.    -19.5 0.2720  0.52  0.29  1.50 302.0  15.0 290.0  2.0  0  0.00  74. 1005.  3 NAD-SFC NoSubs
 9  5 14 134  8   80.1  0.217  1.010  0.008  461.  242.    -11.4 0.2930  0.52  0.22  1.50 344.0  15.0 291.1  2.0  0  0.00  70. 1005.  3 NAD-SFC NoSubs
 9  5 14 134  9  119.6  0.175  1.238  0.008  568.  177.     -4.0 0.2930  0.52  0.20  1.00 334.0  15.0 292.5  2.0  0  0.00  64. 1004.  2 NAD-SFC NoSubs
 9  5 14 134 10  151.3  0.178  1.424  0.008  684.  180.     -3.3 0.2720  0.52  0.19  1.00 323.0  15.0 294.1  2.0  0  0.00  59. 1004.  2 NAD-SFC NoSubs
 9  5 14 134 11  172.9  0.233  1.577  0.007  813.  270.     -6.6 0.2720  0.52  0.19  1.50 318.0  15.0 295.8  2.0  0  0.00  53. 1003.  2 NAD-SFC NoSubs
 9  5 14 134 12  183.1  0.239  1.681  0.007  930.  280.     -6.6 0.2930  0.52  0.19  1.50 331.0  15.0 296.9  2.0  0  0.00  49. 1003.  2 NAD-SFC NoSubs
 9  5 14 134 13  182.4  0.297  1.743  0.007 1039.  389.    -12.9 0.2930  0.52  0.19  2.10 332.0  15.0 297.9  2.0  0  0.00  47. 1002.  2 NAD-SFC NoSubs
 9  5 14 134 14  170.6  0.343  1.755  0.007 1134.  481.    -21.1 0.2930  0.52  0.19  2.60 340.0  15.0 298.6  2.0  0  0.00  46. 1001.  2 NAD-SFC NoSubs
 9  5 14 134 15  147.5  0.384  1.709  0.006 1210.  570.    -34.2 0.2930  0.52  0.19  3.10 351.0  15.0 298.9  2.0  0  0.00  46. 1001.  3 NAD-SFC NoSubs
 9  5 14 134 16  114.7  0.422  1.596  0.006 1266.  658.    -58.5 0.2940  0.52  0.20  3.60   1.0  15.0 298.9  2.0  0  0.00  50. 1000.  3 NAD-SFC NoSubs
 9  5 14 134 17   73.7  0.363  1.390  0.006 1300.  528.    -58.1 0.2930  0.52  0.23  3.10 354.0  15.0 298.9  2.0  0  0.00  57. 1000.  3 NAD-SFC NoSubs
 9  5 14 134 18   27.5  0.389  1.003  0.006 1311.  581.   -190.8 0.2930  0.52  0.32  3.60 343.0  15.0 298.5  2.0  0  0.00  64. 1001.  3 NAD-SFC NoSubs
 9  5 14 134 19  -36.6  0.450 -9.000 -9.000 -999.  724.    222.3 0.2720  0.52  0.60  4.60 328.0  15.0 296.2  2.0  0  0.00  72. 1001.  3 NAD-SFC NoSubs
 9  5 14 134 20  -41.5  0.406 -9.000 -9.000 -999.  623.    144.1 0.2930  0.52  1.00  4.10 335.0  15.0 294.8  2.0  0  0.00  77. 1001.  3 NAD-SFC NoSubs
 9  5 14 134 21  -36.4  0.355 -9.000 -9.000 -999.  509.    109.5 0.2930  0.52  1.00  3.60 330.0  15.0 293.8  2.0  0  0.00  80. 1002.  3 NAD-SFC NoSubs
 9  5 14 134 22  -25.4  0.252 -9.000 -9.000 -999.  309.     56.1 0.2930  0.52  1.00  2.60 335.0  15.0 293.2  2.0  0  0.00  81. 1002.  3 NAD-SFC NoSubs
 9  5 14 134 23  -15.4  0.196 -9.000 -9.000 -999.  209.     43.5 0.2720  0.52  1.00  2.10 323.0  15.0 292.9  2.0  0  0.00  82. 1002.  4 NAD-SFC NoSubs
 9  5 14 134 24  -15.5  0.196 -9.000 -9.000 -999.  208.     43.4 0.2720  0.52  1.00  2.10 324.0  15.0 292.2  2.0  0  0.00  84. 1002.  4 NAD-SFC NoSubs
 9  5 15 135  1  -16.1  0.200 -9.000 -9.000 -999.  215.     44.7 0.2930  0.52  1.00  2.10 330.0  15.0 291.6  2.0  0  0.00  87. 1002.  4 NAD-SFC NoSubs
 9  5 15 135  2   -8.0  0.140 -9.000 -9.000 -999.  126.     30.4 0.2930  0.52  1.00  1.50 331.0  15.0 290.9  2.0  0  0.00  89. 1002.  4 NAD-SFC NoSubs
 9  5 15 135  3   -3.9  0.101 -9.000 -9.000 -999.   77.     23.7 0.2930  0.52  1.00  1.00 335.0  15.0 290.4  2.0  0  0.00  91. 1002.  4 NAD-SFC NoSubs
 9  5 15 135  4   -3.7  0.099 -9.000 -9.000 -999.   75.     23.3 0.2720  0.52  1.00  1.00 321.0  15.0 289.9  2.0  0  0.00  93. 1002.  4 NAD-SFC NoSubs
 9  5 15 135  5   -3.8  0.099 -9.000 -9.000 -999.   75.     23.3 0.2720  0.52  1.00  1.00 300.0  15.0 289.5  2.0  0  0.00  94. 1002.  4 NAD-SFC NoSubs
 9  5 15 135  6   -0.8  0.061 -9.000 -9.000 -999.   36.     25.4 0.2160  0.52  0.50  0.50 282.0  15.0 289.2  2.0  0  0.00  94. 1003.  3 NAD-SFC NoSubs
 9  5 15 135  7   34.9  0.151  0.650  0.006  282.  141.     -8.8 0.2930  0.52  0.29  1.00 341.0  15.0 290.2  2.0  0  0.00  86. 1003.  3 NAD-SFC NoSubs
 9  5 15 135  8   80.5 -9.000 -9.000 -9.000  460. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 291.1  2.0  0  0.00  81. 1003.  3 NAD-SFC NoSubs
 9  5 15 135  9  120.4 -9.000 -9.000 -9.000  614. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 292.8  2.0  0  0.00  73. 1002.  3 NAD-SFC NoSubs
 9  5 15 135 10  151.9 -9.000 -9.000 -9.000  759. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 294.8  2.0  0  0.00  66. 1002.  2 NAD-SFC NoSubs
 9  5 15 135 11  173.6 -9.000 -9.000 -9.000  894. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 296.8  2.0  0  0.00  59. 1001.  2 NAD-SFC NoSubs
 9  5 15 135 12  184.1 -9.000 -9.000 -9.000 1006. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 298.6  2.0  0  0.00  52.  999.  2 NAD-SFC NoSubs
 9  5 15 135 13  183.8 -9.000 -9.000 -9.000 1086. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 300.4  2.0  0  0.00  46.  998.  2 NAD-SFC NoSubs
 9  5 15 135 14  172.3  0.184  1.775  0.013 1157.  189.     -3.2 0.2930  0.52  0.19  1.00 352.0  15.0 301.8  2.0  0  0.00  41.  997.  2 NAD-SFC NoSubs
 9  5 15 135 15  149.3  0.291  1.720  0.013 1214.  378.    -14.7 0.2940  0.52  0.19  2.10   2.0  15.0 302.2  2.0  0  0.00  40.  997.  2 NAD-SFC NoSubs
 9  5 15 135 16  117.0 -9.000 -9.000 -9.000 1259. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 303.8  2.0  0  0.00  41.  996.  2 NAD-SFC NoSubs
 9  5 15 135 17   75.4  0.364  1.397  0.013 1285.  528.    -57.0 0.2940  0.52  0.23  3.10   8.0  15.0 303.2  2.0  0  0.00  49.  996.  2 NAD-SFC NoSubs
 9  5 15 135 18   28.6 -9.000 -9.000 -9.000 1294. -999. -99999.0 0.2235  0.52  0.31  0.00   0.0  15.0 302.6  2.0  0  0.00  57.  996.  2 NAD-SFC NoSubs
 9  5 15 135 19  -23.9  0.305 -9.000 -9.000 -999.  404.    105.4 0.2930  0.52  0.59  3.10 355.0  15.0 301.6  2.0  0  0.00  58.  996.  2 NAD-SFC NoSubs
 9  5 15 135 20  -24.4  0.246 -9.000 -9.000 -999.  295.     54.4 0.2720  0.52  1.00  2.60 317.0  15.0 300.5  2.0  0  0.00  60.  996.  2 NAD-SFC NoSubs
 9  5 15 135 21  -15.7  0.196 -9.000 -9.000 -999.  208.     42.4 0.2720  0.52  1.00  2.10 323.0  15.0 299.4  2.0  0  0.00  62.  997.  2 NAD-SFC NoSubs
 9  5 15 135 22  -15.7  0.195 -9.000 -9.000 -999.  207.     42.3 0.2720  0.52  1.00  2.10 319.0  15.0 298.2  2.0  0  0.00  65.  997.  2 NAD-SFC NoSubs
 9  5 15 135 23   -7.9  0.137 -9.000 -9.000 -999.  122.     29.0 0.2720  0.52  1.00  1.50 306.0  15.0 297.2  2.0  0  0.00  68.  997.  2 NAD-SFC NoSubs
 9  5 15 135 24   -3.8  0.100 -9.000 -9.000 -999.   76.     23.3 0.2720  0.52  1.00  1.00 302.0  15.0 296.4  2.0  0  0.00  70.  997.  2 NAD-SFC NoSubs
 9  5 16 136  1   -1.5  0.080 -9.000 -9.000 -999.   55.     31.3 0.2160  0.52  1.00  0.50 299.0  15.0 295.8  2.0  0  0.00  73.  998.  2 NAD-SFC NoSubs
 9  5 16 136  2   -3.6  0.096 -9.000 -9.000 -999.   72.     22.4 0.2160  0.52  1.00  1.00 274.0  15.0 295.0  2.0  0  0.00  76.  998.  2 NAD-SFC NoSubs
 9  5 16 136  3   -6.6  0.122 -9.000 -9.000 -999.  103.     24.9 0.1750  0.52  1.00  1.50 266.0  15.0 294.4  2.0  0  0.00  78.  998.  2 NAD-SFC NoSubs
 9  5 16 136  4  -22.2  0.231 -9.000 -9.000 -999.  266.     49.2 0.2160  0.52  1.00  2.60 277.0  15.0 293.8  2.0  0  0.00  78.  999.  2 NAD-SFC NoSubs
 9  5 16 136  5  -34.2  0.325 -9.000 -9.000 -999.  445.     89.6 0.2160  0.52  1.00  3.60 291.0  15.0 293.1  2.0  0  0.00  78.  999.  2 NAD-SFC NoSubs
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9	5	16	136	6	-12.4	0.235	-9.000	-9.000	-999.	277.	93.7	0.2160	0.52	0.50	2.60	288.0	15.0	292.6	2.0	0	0.00	78.	1000.	2	NAD-SFC	NoSubs
9	5	16	136	7	35.5	0.251	0.505	0.009	129.	301.	-39.5	0.2720	0.52	0.29	2.10	306.0	15.0	294.4	2.0	0	0.00	69.	1000.	2	NAD-SFC	NoSubs
9	5	16	136	8	82.0	0.204	0.806	0.010	228.	221.	-9.2	0.2160	0.52	0.22	1.50	287.0	15.0	296.2	2.0	0	0.00	62.	1000.	2	NAD-SFC	NoSubs
9	5	16	136	9	122.7	0.104	1.066	0.009	352.	85.	-1.0	0.1750	0.52	0.20	0.50	260.0	15.0	298.9	2.0	0	0.00	54.	999.	2	NAD-SFC	NoSubs
9	5	16	136	10	155.1	-9.000	-9.000	-9.000	519.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.8	2.0	0	0.00	41.	999.	2	NAD-SFC	NoSubs
9	5	16	136	11	177.1	0.114	1.501	0.008	681.	92.	-1.0	0.2130	0.52	0.19	0.50	101.0	15.0	303.9	2.0	0	0.00	34.	999.	2	NAD-SFC	NoSubs
9	5	16	136	12	188.0	0.115	1.627	0.007	816.	93.	-1.0	0.2130	0.52	0.19	0.50	104.0	15.0	306.1	2.0	0	0.00	28.	998.	2	NAD-SFC	NoSubs
9	5	16	136	13	188.0	0.113	1.701	0.007	933.	91.	-1.0	0.1950	0.52	0.19	0.50	219.0	15.0	307.9	2.0	0	0.00	23.	997.	2	NAD-SFC	NoSubs
9	5	16	136	14	176.7	0.109	1.731	0.006	1045.	86.	-1.0	0.1750	0.52	0.19	0.50	246.0	15.0	309.2	2.0	0	0.00	19.	997.	2	NAD-SFC	NoSubs
9	5	16	136	15	154.0	0.112	1.703	0.006	1141.	90.	-1.0	0.2160	0.52	0.19	0.50	287.0	15.0	310.0	2.0	0	0.00	18.	997.	2	NAD-SFC	NoSubs
9	5	16	136	16	120.8	0.285	1.601	0.005	1210.	366.	-17.1	0.2930	0.52	0.20	2.10	358.0	15.0	309.6	2.0	0	0.00	21.	996.	2	NAD-SFC	NoSubs
9	5	16	136	17	78.2	0.504	1.399	0.005	1246.	859.	-145.8	0.2940	0.52	0.23	4.60	12.0	15.0	307.4	2.0	0	0.00	38.	997.	2	NAD-SFC	NoSubs
9	5	16	136	18	30.3	0.486	1.023	0.005	1255.	814.	-336.1	0.2940	0.52	0.31	4.60	27.0	15.0	304.9	2.0	0	0.00	53.	997.	2	NAD-SFC	NoSubs
9	5	16	136	19	-34.2	0.461	-9.000	-9.000	-999.	753.	255.0	0.2940	0.52	0.58	4.60	27.0	15.0	303.6	2.0	0	0.00	53.	998.	2	NAD-SFC	NoSubs
9	5	16	136	20	-39.3	0.387	-9.000	-9.000	-999.	581.	130.9	0.2470	0.52	1.00	4.10	39.0	15.0	303.0	2.0	0	0.00	50.	998.	2	NAD-SFC	NoSubs
9	5	16	136	21	-21.9	0.231	-9.000	-9.000	-999.	284.	49.9	0.2160	0.52	1.00	2.60	286.0	15.0	301.6	2.0	0	0.00	51.	999.	2	NAD-SFC	NoSubs
9	5	16	136	22	-43.2	0.420	-9.000	-9.000	-999.	653.	152.9	0.2160	0.52	1.00	4.60	275.0	15.0	299.8	2.0	0	0.00	56.	1000.	2	NAD-SFC	NoSubs
9	5	16	136	23	-35.8	0.347	-9.000	-9.000	-999.	494.	103.9	0.2720	0.52	1.00	3.60	305.0	15.0	298.8	2.0	0	0.00	57.	1000.	2	NAD-SFC	NoSubs
9	5	16	136	24	-30.7	0.297	-9.000	-9.000	-999.	389.	75.8	0.2720	0.52	1.00	3.10	321.0	15.0	298.0	2.0	0	0.00	57.	1000.	2	NAD-SFC	NoSubs
9	5	17	137	1	-24.6	0.246	-9.000	-9.000	-999.	294.	54.1	0.2720	0.52	1.00	2.60	325.0	15.0	297.2	2.0	0	0.00	57.	1000.	2	NAD-SFC	NoSubs
9	5	17	137	2	-3.6	0.096	-9.000	-9.000	-999.	93.	22.4	0.2160	0.52	1.00	1.00	299.0	15.0	296.4	2.0	0	0.00	60.	1001.	2	NAD-SFC	NoSubs
9	5	17	137	3	-6.6	0.122	-9.000	-9.000	-999.	103.	24.9	0.1750	0.52	1.00	1.50	260.0	15.0	295.6	2.0	0	0.00	62.	1001.	2	NAD-SFC	NoSubs
9	5	17	137	4	-13.0	0.173	-9.000	-9.000	-999.	173.	35.6	0.1750	0.52	1.00	2.10	261.0	15.0	295.1	2.0	0	0.00	62.	1001.	2	NAD-SFC	NoSubs
9	5	17	137	5	-20.3	0.218	-9.000	-9.000	-999.	245.	45.6	0.1750	0.52	1.00	2.60	266.0	15.0	294.8	2.0	0	0.00	62.	1002.	2	NAD-SFC	NoSubs
9	5	17	137	6	-11.4	0.236	-9.000	-9.000	-999.	274.	102.6	0.2160	0.52	0.50	2.60	285.0	15.0	294.2	2.0	0	0.00	63.	1002.	2	NAD-SFC	NoSubs
9	5	17	137	7	36.5	0.187	0.450	0.009	89.	195.	-16.1	0.2160	0.52	0.28	1.50	291.0	15.0	295.8	2.0	0	0.00	60.	1002.	2	NAD-SFC	NoSubs
9	5	17	137	8	83.1	0.257	0.765	0.008	193.	313.	-18.3	0.2160	0.52	0.22	2.10	289.0	15.0	298.0	2.0	0	0.00	52.	1002.	2	NAD-SFC	NoSubs
9	5	17	137	9	123.7	0.213	1.064	0.007	348.	237.	-7.0	0.2160	0.52	0.20	1.50	277.0	15.0	300.4	2.0	0	0.00	45.	1001.	2	NAD-SFC	NoSubs
9	5	17	137	10	155.9	0.112	1.332	0.007	542.	95.	-1.0	0.2160	0.52	0.19	0.50	270.0	15.0	302.8	2.0	0	0.00	38.	1001.	2	NAD-SFC	NoSubs
9	5	17	137	11	178.1	-9.000	-9.000	-9.000	724.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	305.1	2.0	0	0.00	29.	1000.	2	NAD-SFC	NoSubs
9	5	17	137	12	188.6	0.121	1.667	0.005	878.	101.	-1.0	0.2720	0.52	0.19	0.50	322.0	15.0	306.6	2.0	0	0.00	27.	1000.	2	NAD-SFC	NoSubs
9	5	17	137	13	188.3	0.123	1.760	0.005	1034.	104.	-1.0	0.2930	0.52	0.19	0.50	334.0	15.0	307.9	2.0	0	0.00	25.	999.	2	NAD-SFC	NoSubs
9	5	17	137	14	176.7	0.122	1.814	0.005	1205.	103.	-1.0	0.2940	0.52	0.19	0.50	19.0	15.0	308.8	2.0	0	0.00	23.	998.	2	NAD-SFC	NoSubs
9	5	17	137	15	153.9	0.234	1.793	0.005	1336.	271.	-7.4	0.2940	0.52	0.19	1.50	23.0	15.0	309.2	2.0	0	0.00	24.	998.	2	NAD-SFC	NoSubs
9	5	17	137	16	120.5	0.378	1.696	0.005	1443.	558.	-39.9	0.2940	0.52	0.20	3.10	25.0	15.0	308.6	2.0	0	0.00	28.	998.	2	NAD-SFC	NoSubs
9	5	17	137	17	78.5	0.366	1.492	0.005	1506.	531.	-55.3	0.2940	0.52	0.23	3.10	18.0	15.0	307.2	2.0	0	0.00	40.	997.	2	NAD-SFC	NoSubs
9	5	17	137	18	31.9	0.345	1.110	0.005	1529.	486.	-114.4	0.2940	0.52	0.31	3.10	14.0	15.0	306.8	2.0	0	0.00	43.	998.	2	NAD-SFC	NoSubs
9	5	17	137	19	-32.5	0.472	-9.000	-9.000	-999.	777.	287.6	0.2160	0.52	0.58	5.10	290.0	15.0	305.8	2.0	0	0.00	44.	999.	2	NAD-SFC	NoSubs
9	5	17	137	20	-47.9	0.468	-9.000	-9.000	-999.	768.	190.1	0.2160	0.52	1.00	5.10	277.0	15.0	300.8	2.0	0	0.00	56.	999.	2	NAD-SFC	NoSubs
9	5	17	137	21	-43.4	0.420	-9.000	-9.000	-999.	655.	152.1	0.2160	0.52	1.00	4.60	285.0	15.0	298.2	2.0	0	0.00	57.	1000.	2	NAD-SFC	NoSubs
9	5	17	137	22	-38.7	0.373	-9.000	-9.000	-999.	548.	119.1	0.2160	0.52	1.00	4.10	284.0	15.0	296.8	2.0	0	0.00	60.	1000.	2	NAD-SFC	NoSubs
9	5	17	137	23	-14.2	0.183	-9.000	-9.000	-999.	220.	38.5	0.2160	0.52	1.00	2.10	297.0	15.0	296.4	2.0	0	0.00	59.	1001.	2	NAD-SFC	NoSubs
9	5	17	137	24	-16.4	0.200	-9.000	-9.000	-999.	215.	43.5	0.2940	0.52	1.00	2.10	21.0	15.0	296.0	2.0	0	0.00	59.	1001.	2	NAD-SFC	NoSubs
9	5	18	138	1	-16.4	0.200	-9.000	-9.000	-999.	215.	43.5	0.2940	0.52	1.00	2.10	26.0	15.0	295.5	2.0	0	0.00	60.	1001.	2	NAD-SFC	NoSubs
9	5	18	138	2	-4.0	0.102	-9.000	-9.000	-999.	83.	23.7	0.2940	0.52	1.00	1.00	13.0	15.0	294.9	2.0	0	0.00	61.	1001.	2	NAD-SFC	NoSubs
9	5	18	138	3	-1.6	0.082	-9.000	-9.000	-999.	56.	31.6	0.2470	0.52	1.00	0.50	34.0	15.0	294.4	2.0	0	0.00	62.	1001.	2	NAD-SFC	NoSubs
9	5	18	138	4	-1.6	0.083	-9.000	-9.000	-999.	57.	31.8	0.2720	0.52	1.00	0.50	312.0	15.0	294.1	2.0	0	0.00	62.	1001.	2	NAD-SFC	NoSubs
9	5	18	138	5	-1.5	0.080	-9.000	-9.000	-999.	54.	31.1	0.1950	0.52	1.00	0.50	237.0	15.0	293.8	2.0	0	0.00	62.	1001.	2	NAD-SFC	NoSubs
9	5	18	138	6	17.6	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.49	0.00	0.0	15.0	293.5	2.0	0	0.00	64.	1001.	2	NAD-SFC	NoSubs
9	5	18	138	7	36.7	0.090	0.540	0.008	153.	64.	-1.8	0.1900	0.52	0.28	0.50	183.0	15.0	295.1	2.0	0	0.00	58.	1002.	2	NAD-SFC	NoSubs
9	5	18	138	8	83.0	0.099	0.867	0.007	280.	75.	-1.0	0.1810	0.52	0.22	0.50	178.0	15.0	296.9	2.0	0	0.00	54.	1001.	2	NAD-SFC	NoSubs
9	5	18	138	9	123.3	-9.000	-9.000	-9.000	450.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	298.8	2.0	0	0.00	48.	1001.	2	NAD-SFC	NoSubs
9	5	18	138	10	155.2	-9.000	-9.000	-9.000	694.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.6	2.0	0	0.00	44.	1000.	2	NAD-SFC	NoSubs
9	5	18	138	11	176.8	-9.000	-9.000	-9.000	823.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.2	2.0	0	0.00	42.	1000.	2	NAD-SFC	NoSubs
9	5	18	138	12	187.3	-9.000	-9.000	-9.000	941.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.9	2.0	0	0.00	38.	999.	2	NAD-SFC	NoSubs
9	5	18	138	13	187.0	0.121	1.760	0.009	1040.	101.	-1.0	0.2720	0.52	0.19	0.50	328.0	15.0	305.2	2.0	0	0.00	34.	998.	2	NAD-SFC	NoSubs
9	5	18	138	14	175.5	0.171	1.768	0.009	1122.	170.	-2.5	0.2090	0.52	0.19	1.00	62.0	15.0	306.1	2.0	0	0.00	33.	997.	2	NAD-SFC	NoSubs
9	5	18	138	15	151.8	0.358	1.715	0.009	1185.	514.	-26.9	0.2090	0.52	0.19	3.10	85.0	15.0	305.2	2.0	0	0.51	42.	998.	2	NAD-SFC	NoSubs
9	5	18	138	16	118.6	0.309	1.601	0.009	1233.	413.	-22.1	0.2130	0.52	0.20	2.60	105.0	15.0	304.8	2.0	0	0.51	44.	998.	2	NAD-SFC	NoSubs
9	5	18	138	17	77.5	0.319	1.401	0.009	1263.	432.	-37.2	0.2930	0.52	0.23	2.60	344.0	15.0	304.6	2.0	0	0.00	45.	998.	2	NAD-SFC	NoSubs
9	5	18	138	18	30.2	0.408	1.025	0.009	1271.	626.	-200.4	0.2160	0.52	0.31	4.10	287.0	15.0	302.8	2.0	0	0.00	52.	999.	2	NAD-SFC	NoSubs
9	5	18	138	19	-26.0	0.349	-9.000	-9.000	-999.	498.	146.0	0.2720	0.52	0.57	3.60	301.0	15.0	300.5	2.0	0	0.00	56.	999.	2	NAD-SFC	NoSubs
9	5	18	138	20	-30.6	0.297	-9.000	-9.000	-999.	389.	75.9	0.2720	0.52	1.00	3.10	313.0	15.0	298.5	2.0	0	0.00	59.	1000.	2	NAD-SFC	NoSubs
9	5	18	138	21	-36.0	0.347	-9.000	-9.000	-999.	490.	103.3	0.2720	0.52	1.00	3.60	301.0	15.0	297.1	2.0	0	0.00	61.	1000.	2	NAD-SFC	NoSubs
9	5	18	138	22	-36.8	0.353	-9.000	-9.000	-999.	503.	106.5	0.1750	0.52	1.00	4.10	266.0	15.0	295.8	2.0	0	0.00	63.	1000.	2	NAD-SFC	NoSubs
9	5	18	138	23	-32.3	0.308	-9.000	-9.000	-999.	412.	80.9	0.1750	0.52	1.00	3.60	266.0	15.0	294.8	2.0	0	0.00	65.	1000.	2	NAD-SFC	NoSubs
9	5	18	138	24	-22.2	0.231	-9.000	-9.000	-999.	268.	49.2	0.2160	0.52	1.00	2.60	294.0	15.0	294.0	2.0	0	0.00	65.	1000.	2	NAD-SFC	NoSubs
9	5	19	139	1	-8.2	0.140	-9.000	-9.000	-999.	129.	29.6	0.2930	0.52	1.00	1.50	339.0	15.0	293.8	2.0	0	0.00	63.	1000.	2	NAD-SFC	NoSubs
9	5	19	139	2	-37.4	0.355	-9.000	-9.000	-999.	507.	106.7	0.2940	0.52	1.00	3.60	19.0	15.0	293.2	2.0	0	0.00	63.	1001.	2	NAD-SFC	NoSubs
9	5	19	139	3	-36.6	0.355	-9.000	-9.000	-999.	507.	109.1	0.2940	0.52	1.00	3.60	14.0	15.0	292.0	2.0	0	0.00	67.	1001.	3	NAD-SFC	NoSubs
9	5	19	139	4	-25.5	0.252	-9.000	-9.000	-999.	309.	56.0	0.2940	0.52	1.00	2.60	21.0	15.0	291.5	2.0	0	0.00	68.	1002.	3	NAD-SFC	NoSubs
9	5	19	139	5	-16.4	0.200	-9.000	-9.000	-999.	216.	43.8	0.2940	0.52	1.00	2.10	19.0	15.0	291.4	2.0	0	0.00	66.	1002.	3	NAD-SFC	NoSubs
9	5	19	139	6	10.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.49	0.00	0.0	15.0	291.4	2.0	0	0.00	64.	1002.	2	NAD-SFC	NoSubs
9	5	19	139	7	36.3	0.197	0.582	0.011	194.	209.	-18.7	0.2720	0.52	0.28	1.50	313.0	15.0	292.8	2.0	0	0.00	53.	1002.	2	NAD-SFC	NoSubs
9	5	19	139	8	82.6	-9.000	-9.000	-9.000	290.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	294.8	2.0	0	0.00	46.	1002.	2	NAD-SFC	NoSubs
9	5	19	139	9	122.9	-9.000	-9.000	-9.000	389.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.9	2.0	0	0.00	41.	1002.	2	NAD-SFC	NoSubs
9	5	19	139	10	154.6	-9.000	-9.000	-9.000	552.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.8	2.0	0	0.00	39.	1001.	2	NAD-SFC	NoSubs

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 9  5 19 139 11  176.1 -9.000 -9.000 -9.000  708. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 300.2  2.0   0  0.00  37.  1001.    2 NAD-SFC NoSubs
 9  5 19 139 12  186.5 -9.000 -9.000 -9.000  875. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 301.8  2.0   0  0.00  34.  1000.    2 NAD-SFC NoSubs
 9  5 19 139 13  186.0  0.121  1.738  0.008 1009.  101.     -1.0 0.2720  0.52  0.19  0.50  328.0  15.0 302.9  2.0   0  0.00  31.  1000.    2 NAD-SFC NoSubs
 9  5 19 139 14  174.5  0.122  1.759  0.008 1113.  102.     -1.0 0.2940  0.52  0.19  0.50    1.0  15.0 303.9  2.0   0  0.00  28.   999.    2 NAD-SFC NoSubs
 9  5 19 139 15  151.9  0.181  1.721  0.009 1196.  185.     -3.5 0.2940  0.52  0.19  1.00    8.0  15.0 304.8  2.0   0  0.00  26.   998.    2 NAD-SFC NoSubs
 9  5 19 139 16  119.2  0.227  1.614  0.009 1257.  259.     -8.7 0.2940  0.52  0.20  1.50   14.0  15.0 305.1  2.0   0  0.00  25.   998.    2 NAD-SFC NoSubs
 9  5 19 139 17   78.0  0.273  1.415  0.009 1294.  342.    -23.2 0.2930  0.52  0.23  2.10  358.0  15.0 304.8  2.0   0  0.00  29.   998.    2 NAD-SFC NoSubs
 9  5 19 139 18   31.1  0.384  1.045  0.009 1305.  571.   -162.2 0.2720  0.52  0.31  3.60  302.0  15.0 303.5  2.0   0  0.00  39.   999.    2 NAD-SFC NoSubs
 9  5 19 139 19  -34.7  0.471 -9.000 -9.000 -999.  775.    268.1 0.2160  0.52  0.57  5.10  285.0  15.0 299.5  2.0   0  0.00  50.  1000.    2 NAD-SFC NoSubs
 9  5 19 139 20  -43.7  0.420 -9.000 -9.000 -999.  656.    151.0 0.2160  0.52  1.00  4.60  270.0  15.0 296.2  2.0   0  0.00  59.  1000.    2 NAD-SFC NoSubs
 9  5 19 139 21  -44.1  0.420 -9.000 -9.000 -999.  653.    149.9 0.2160  0.52  1.00  4.60  272.0  15.0 294.2  2.0   0  0.00  65.  1001.    2 NAD-SFC NoSubs
 9  5 19 139 22  -39.3  0.372 -9.000 -9.000 -999.  547.    117.4 0.2160  0.52  1.00  4.10  275.0  15.0 292.8  2.0   0  0.00  68.  1001.    2 NAD-SFC NoSubs
 9  5 19 139 23  -20.4  0.218 -9.000 -9.000 -999.  262.     45.4 0.1750  0.52  1.00  2.60  268.0  15.0 292.0  2.0   0  0.00  71.  1001.    2 NAD-SFC NoSubs
 9  5 19 139 24   -3.9  0.101 -9.000 -9.000 -999.   88.     23.3 0.2720  0.52  1.00  1.00  315.0  15.0 291.6  2.0   0  0.00  72.  1002.    2 NAD-SFC NoSubs
 9  5 20 140  1   -3.9  0.101 -9.000 -9.000 -999.   77.     23.3 0.2720  0.52  1.00  1.00  314.0  15.0 291.0  2.0   0  0.00  74.  1002.    2 NAD-SFC NoSubs
 9  5 20 140  2  -14.3  0.183 -9.000 -9.000 -999.  188.     38.1 0.2160  0.52  1.00  2.10  295.0  15.0 290.6  2.0   0  0.00  75.  1002.    2 NAD-SFC NoSubs
 9  5 20 140  3  -22.4  0.230 -9.000 -9.000 -999.  265.     48.8 0.2160  0.52  1.00  2.60  289.0  15.0 290.2  2.0   0  0.00  75.  1001.    2 NAD-SFC NoSubs
 9  5 20 140  4  -22.4  0.230 -9.000 -9.000 -999.  265.     48.8 0.2160  0.52  1.00  2.60  287.0  15.0 290.0  2.0   0  0.00  76.  1001.    2 NAD-SFC NoSubs
 9  5 20 140  5  -16.0  0.195 -9.000 -9.000 -999.  207.     41.6 0.2720  0.52  1.00  2.10  304.0  15.0 289.8  2.0   0  0.00  76.  1001.    2 NAD-SFC NoSubs
 9  5 20 140  6   -5.5  0.140 -9.000 -9.000 -999.  127.     44.8 0.2720  0.52  0.49  1.50  322.0  15.0 289.6  2.0   0  0.00  78.  1002.    2 NAD-SFC NoSubs
 9  5 20 140  7   36.3  0.152  0.583  0.010  195.  142.     -8.6 0.2930  0.52  0.28  1.00  337.0  15.0 291.2  2.0   0  0.00  73.  1002.    2 NAD-SFC NoSubs
 9  5 20 140  8   82.4 -9.000 -9.000 -9.000  347. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0 293.0  2.0   0  0.00  68.  1001.    2 NAD-SFC NoSubs
 9  5 20 140  9  122.3 -9.000 -9.000 -9.000  475. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 294.6  2.0   0  0.00  63.  1001.    2 NAD-SFC NoSubs
 9  5 20 140 10  154.0 -9.000 -9.000 -9.000  595. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 296.8  2.0   0  0.00  56.  1000.    2 NAD-SFC NoSubs
 9  5 20 140 11  175.7 -9.000 -9.000 -9.000  702. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 298.5  2.0   0  0.00  50.  1000.    2 NAD-SFC NoSubs
 9  5 20 140 12  186.0 -9.000 -9.000 -9.000  795. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 300.2  2.0   0  0.00  44.   999.    2 NAD-SFC NoSubs
 9  5 20 140 13  185.7  0.121  1.660  0.009  879.  101.     -1.0 0.2720  0.52  0.19  0.50  319.0  15.0 301.8  2.0   0  0.00  37.   998.    2 NAD-SFC NoSubs
 9  5 20 140 14  174.4  0.122  1.670  0.009  951.  102.     -1.0 0.2930  0.52  0.19  0.50  337.0  15.0 303.0  2.0   0  0.00  33.   997.    2 NAD-SFC NoSubs
 9  5 20 140 15  151.7  0.181  1.633  0.008 1023.  184.     -3.5 0.2930  0.52  0.19  1.00  360.0  15.0 303.8  2.0   0  0.00  31.   997.    2 NAD-SFC NoSubs
 9  5 20 140 16  119.0  0.227  1.534  0.008 1080.  259.     -8.7 0.2930  0.52  0.20  1.50  359.0  15.0 304.0  2.0   0  0.00  28.   997.    2 NAD-SFC NoSubs
 9  5 20 140 17   77.9  0.273  1.346  0.008 1115.  343.    -23.3 0.2940  0.52  0.23  2.10   10.0  15.0 303.8  2.0   0  0.00  30.   997.    2 NAD-SFC NoSubs
 9  5 20 140 18   31.5  0.253  1.000  0.008 1128.  305.    -45.5 0.2940  0.52  0.31  2.10    5.0  15.0 303.2  2.0   0  0.00  38.   997.    2 NAD-SFC NoSubs
 9  5 20 140 19  -31.4  0.451 -9.000 -9.000 -999.  728.    260.8 0.2720  0.52  0.56  4.60  304.0  15.0 301.2  2.0   0  0.00  44.   998.    2 NAD-SFC NoSubs
 9  5 20 140 20  -46.1  0.443 -9.000 -9.000 -999.  708.    167.8 0.1750  0.52  1.00  5.10  266.0  15.0 295.9  2.0   0  0.00  60.   998.    2 NAD-SFC NoSubs
 9  5 20 140 21  -46.5  0.443 -9.000 -9.000 -999.  707.    166.2 0.1750  0.52  1.00  5.10  269.0  15.0 293.2  2.0   0  0.00  64.   999.    2 NAD-SFC NoSubs
 9  5 20 140 22  -39.3  0.372 -9.000 -9.000 -999.  549.    117.1 0.2160  0.52  1.00  4.10  279.0  15.0 292.0  2.0   0  0.00  66.   999.    2 NAD-SFC NoSubs
 9  5 20 140 23  -29.5  0.278 -9.000 -9.000 -999.  357.     65.0 0.2160  0.52  1.00  3.10  288.0  15.0 291.0  2.0   0  0.00  68.  1000.    2 NAD-SFC NoSubs
 9  5 20 140 24  -25.8  0.251 -9.000 -9.000 -999.  303.     55.0 0.2930  0.52  1.00  2.60  336.0  15.0 290.5  2.0   0  0.00  68.  1000.    2 NAD-SFC NoSubs
 9  5 21 141  1  -25.8  0.251 -9.000 -9.000 -999.  303.     54.9 0.2930  0.52  1.00  2.60  350.0  15.0 289.8  2.0   0  0.00  70.  1001.    2 NAD-SFC NoSubs
 9  5 21 141  2  -25.8  0.251 -9.000 -9.000 -999.  303.     54.9 0.2930  0.52  1.00  2.60  332.0  15.0 289.2  2.0   0  0.00  72.  1001.    2 NAD-SFC NoSubs
 9  5 21 141  3  -24.9  0.246 -9.000 -9.000 -999.  293.     53.2 0.2720  0.52  1.00  2.60  316.0  15.0 288.9  2.0   0  0.00  71.  1001.    2 NAD-SFC NoSubs
 9  5 21 141  4  -16.0  0.195 -9.000 -9.000 -999.  208.     41.5 0.2720  0.52  1.00  2.10  316.0  15.0 288.8  2.0   0  0.00  70.  1001.    2 NAD-SFC NoSubs
 9  5 21 141  5   -8.0  0.137 -9.000 -9.000 -999.  122.     28.6 0.2720  0.52  1.00  1.50  328.0  15.0 288.6  2.0   0  0.00  70.  1001.    2 NAD-SFC NoSubs
 9  5 21 141  6   -0.8  0.061 -9.000 -9.000 -999.   39.     25.4 0.2930  0.52  0.48  0.50  345.0  15.0 288.5  2.0   0  0.00  71.  1002.    2 NAD-SFC NoSubs
 9  5 21 141  7   36.5  0.149  0.507  0.009  127.  138.     -8.1 0.2720  0.52  0.28  1.00  320.0  15.0 290.8  2.0   0  0.00  61.  1002.    2 NAD-SFC NoSubs
 9  5 21 141  8   82.6 -9.000 -9.000 -9.000  276. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0 292.5  2.0   0  0.00  56.  1002.    2 NAD-SFC NoSubs
 9  5 21 141  9  122.4 -9.000 -9.000 -9.000  461. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 294.1  2.0   0  0.00  53.  1001.    2 NAD-SFC NoSubs
 9  5 21 141 10  154.1 -9.000 -9.000 -9.000  633. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 296.1  2.0   0  0.00  50.  1001.    2 NAD-SFC NoSubs
 9  5 21 141 11  175.7 -9.000 -9.000 -9.000  749. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 298.0  2.0   0  0.00  45.  1000.    2 NAD-SFC NoSubs
 9  5 21 141 12  186.0 -9.000 -9.000 -9.000  851. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 299.8  2.0   0  0.00  40.   999.    2 NAD-SFC NoSubs
 9  5 21 141 13  185.7  0.121  1.699  0.009  942.  101.     -1.0 0.2720  0.52  0.19  0.50  312.0  15.0 301.2  2.0   0  0.00  36.   998.    2 NAD-SFC NoSubs
 9  5 21 141 14  174.2  0.120  1.710  0.009 1024.  100.     -1.0 0.2720  0.52  0.19  0.50  317.0  15.0 302.1  2.0   0  0.00  33.   998.    2 NAD-SFC NoSubs
 9  5 21 141 15  151.5  0.233  1.669  0.009 1092.  270.     -7.4 0.2930  0.52  0.19  1.50  345.0  15.0 302.8  2.0   0  0.00  32.   997.    2 NAD-SFC NoSubs
 9  5 21 141 16  118.9  0.331  1.563  0.008 1143.  457.    -27.2 0.2940  0.52  0.20  2.60    3.0  15.0 303.1  2.0   0  0.00  33.   997.    2 NAD-SFC NoSubs
 9  5 21 141 17   77.9 -9.000 -9.000 -9.000 1174. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0 302.8  2.0   0  0.00  40.   997.    2 NAD-SFC NoSubs
 9  5 21 141 18   32.6  0.366  1.027  0.008 1184.  531.   -133.8 0.2160  0.52  0.31  3.60  286.0  15.0 301.9  2.0   0  0.00  48.   998.    3 NAD-SFC NoSubs
 9  5 21 141 19  -33.8  0.502 -9.000 -9.000 -999.  853.    333.7 0.1750  0.52  0.56  5.70  269.0  15.0 297.2  2.0   0  0.00  60.   999.    3 NAD-SFC NoSubs
 9  5 21 141 20  -46.4  0.443 -9.000 -9.000 -999.  711.    166.8 0.1750  0.52  1.00  5.10  257.0  15.0 294.2  2.0   0  0.00  61.   999.    2 NAD-SFC NoSubs
 9  5 21 141 21  -44.3  0.420 -9.000 -9.000 -999.  654.    149.0 0.2160  0.52  1.00  4.60  271.0  15.0 292.4  2.0   0  0.00  63.  1000.    2 NAD-SFC NoSubs
 9  5 21 141 22  -28.7  0.278 -9.000 -9.000 -999.  366.     66.9 0.2160  0.52  1.00  3.10  288.0  15.0 291.4  2.0   0  0.00  64.  1001.    3 NAD-SFC NoSubs
 9  5 21 141 23  -16.4  0.200 -9.000 -9.000 -999.  218.     43.7 0.2930  0.52  1.00  2.10  338.0  15.0 291.0  2.0   0  0.00  65.  1002.    3 NAD-SFC NoSubs
 9  5 21 141 24   -8.2  0.140 -9.000 -9.000 -999.  126.     29.8 0.2930  0.52  1.00  1.50  353.0  15.0 290.5  2.0   0  0.00  66.  1002.    3 NAD-SFC NoSubs
 9  5 22 142  1   -1.6  0.083 -9.000 -9.000 -999.   58.     31.8 0.2930  0.52  1.00  0.50  333.0  15.0 289.9  2.0   0  0.00  67.  1002.    3 NAD-SFC NoSubs
 9  5 22 142  2   -1.6  0.083 -9.000 -9.000 -999.   58.     31.8 0.2930  0.52  1.00  0.50  342.0  15.0 289.2  2.0   0  0.00  69.  1002.    3 NAD-SFC NoSubs
 9  5 22 142  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00    0.0  15.0 288.9  2.0   0  0.00  69.  1002.    3 NAD-SFC NoSubs
 9  5 22 142  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00    0.0  15.0 288.6  2.0   0  0.00  70.  1002.    3 NAD-SFC NoSubs
 9  5 22 142  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00    0.0  15.0 288.2  2.0   0  0.00  70.  1002.    3 NAD-SFC NoSubs
 9  5 22 142  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  0.48  0.00    0.0  15.0 288.0  2.0   0  0.00  72.  1002.    3 NAD-SFC NoSubs
 9  5 22 142  7   36.7 -9.000 -9.000 -9.000  150. -999. -99999.0 0.2235  0.52  0.28  0.00    0.0  15.0 290.0  2.0   0  0.00  61.  1002.    2 NAD-SFC NoSubs
 9  5 22 142  8   82.7 -9.000 -9.000 -9.000  283. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0 291.9  2.0   0  0.00  55.  1002.    2 NAD-SFC NoSubs
 9  5 22 142  9  122.6 -9.000 -9.000 -9.000  437. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 293.8  2.0   0  0.00  51.  1002.    2 NAD-SFC NoSubs
 9  5 22 142 10  154.1 -9.000 -9.000 -9.000  647. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 295.6  2.0   0  0.00  48.  1001.    2 NAD-SFC NoSubs
 9  5 22 142 11  175.7 -9.000 -9.000 -9.000  773. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 297.4  2.0   0  0.00  45.  1001.    2 NAD-SFC NoSubs
 9  5 22 142 12  186.0 -9.000 -9.000 -9.000  885. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 299.1  2.0   0  0.00  43.  1000.    2 NAD-SFC NoSubs
 9  5 22 142 13  185.7  0.123  1.723  0.010  983.  103.     -1.0 0.2930  0.52  0.19  0.50  338.0  15.0 300.8  2.0   0  0.00  40.   999.    2 NAD-SFC NoSubs
 9  5 22 142 14  174.3  0.238  1.728  0.010 1055.  278.     -6.8 0.2940  0.52  0.19  1.50    2.0  15.0 301.9  2.0   0  0.00  37.   998.    2 NAD-SFC NoSubs
 9  5 22 142 15  151.7  0.339  1.679  0.010 1113.  474.    -22.9 0.2940  0.52  0.19  2.60    8.0  15.0 302.5  2.0   0  0.00  35.   998.    2 NAD-SFC NoSubs
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 9  5 22 142 16  119.1 -9.000 -9.000 -9.000 1156. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  302.8  2.0  0  0.00  34.   998.   2 NAD-SFC NoSubs
 9  5 22 142 17   78.2  0.319  1.374  0.010 1182.  433.    -37.0  0.2930  0.52  0.22  2.60  344.0  15.0  302.5  2.0  0  0.00  42.   999.   2 NAD-SFC NoSubs
 9  5 22 142 18   32.4  0.453  1.026  0.010 1190.  733.   -256.8  0.2160  0.52  0.30  4.60  276.0  15.0  300.4  2.0  0  0.00  50.   999.   3 NAD-SFC NoSubs
 9  5 22 142 19  -36.2  0.501 -9.000 -9.000 -999.  851.    310.6  0.1750  0.52  0.55  5.70  256.0  15.0  296.0  2.0  0  0.00  56.  1000.   2 NAD-SFC NoSubs
 9  5 22 142 20  -41.8  0.398 -9.000 -9.000 -999.  611.    134.3  0.1750  0.52  1.00  4.60  265.0  15.0  293.5  2.0  0  0.00  59.  1000.   2 NAD-SFC NoSubs
 9  5 22 142 21  -29.4  0.278 -9.000 -9.000 -999.  362.     65.3  0.2160  0.52  1.00  3.10  291.0  15.0  292.2  2.0  0  0.00  59.  1001.   2 NAD-SFC NoSubs
 9  5 22 142 22  -24.8  0.246 -9.000 -9.000 -999.  293.     53.5  0.2720  0.52  1.00  2.60  314.0  15.0  291.6  2.0  0  0.00  59.  1002.   2 NAD-SFC NoSubs
 9  5 22 142 23   -8.3  0.140 -9.000 -9.000 -999.  131.     29.5  0.2930  0.52  1.00  1.50  340.0  15.0  291.0  2.0  0  0.00  60.  1002.   2 NAD-SFC NoSubs
 9  5 22 142 24   -4.0  0.102 -9.000 -9.000 -999.   79.     23.7  0.2940  0.52  1.00  1.00    4.0  15.0  290.4  2.0  0  0.00  62.  1002.   2 NAD-SFC NoSubs
 9  5 23 143  1   -4.0  0.102 -9.000 -9.000 -999.   79.     23.6  0.2930  0.52  1.00  1.00  335.0  15.0  289.8  2.0  0  0.00  64.  1002.   2 NAD-SFC NoSubs
 9  5 23 143  2  -15.3  0.190 -9.000 -9.000 -999.  198.     40.0  0.2470  0.52  1.00  2.10   31.0  15.0  289.0  2.0  0  0.00  66.  1002.   2 NAD-SFC NoSubs
 9  5 23 143  3  -23.9  0.239 -9.000 -9.000 -999.  281.     51.2  0.2470  0.52  1.00  2.60   32.0  15.0  288.2  2.0  0  0.00  69.  1002.   2 NAD-SFC NoSubs
 9  5 23 143  4  -16.7  0.200 -9.000 -9.000 -999.  215.     42.8  0.2940  0.52  1.00  2.10   14.0  15.0  287.8  2.0  0  0.00  72.  1002.   2 NAD-SFC NoSubs
 9  5 23 143  5   -8.3  0.140 -9.000 -9.000 -999.  126.     29.3  0.2930  0.52  1.00  1.50  331.0  15.0  287.2  2.0  0  0.00  73.  1002.   2 NAD-SFC NoSubs
 9  5 23 143  6   -5.3  0.141 -9.000 -9.000 -999.  127.     46.5  0.2720  0.52  0.48  1.50  309.0  15.0  287.2  2.0  0  0.00  73.  1002.   2 NAD-SFC NoSubs
 9  5 23 143  7   36.8  0.239  0.520  0.009  137.  281.    -33.3  0.2160  0.52  0.28  2.10  295.0  15.0  289.0  2.0  0  0.00  64.  1003.   2 NAD-SFC NoSubs
 9  5 23 143  8   82.7  0.103  0.829  0.009  246.   94.     -1.2  0.2160  0.52  0.22  0.50  280.0  15.0  291.1  2.0  0  0.00  56.  1003.   2 NAD-SFC NoSubs
 9  5 23 143  9  122.7 -9.000 -9.000 -9.000  381. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  293.4  2.0  0  0.00  48.  1002.   2 NAD-SFC NoSubs
 9  5 23 143 10  154.3 -9.000 -9.000 -9.000  565. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  295.4  2.0  0  0.00  45.  1002.   2 NAD-SFC NoSubs
 9  5 23 143 11  175.8 -9.000 -9.000 -9.000  710. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  297.2  2.0  0  0.00  42.  1001.   2 NAD-SFC NoSubs
 9  5 23 143 12  186.1 -9.000 -9.000 -9.000  819. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  299.0  2.0  0  0.00  39.  1001.   2 NAD-SFC NoSubs
 9  5 23 143 13  185.8 -9.000 -9.000 -9.000  916. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  300.5  2.0  0  0.00  35.  1000.   2 NAD-SFC NoSubs
 9  5 23 143 14  174.5  0.122  1.697  0.009  999.  102.     -1.0  0.2930  0.52  0.19  0.50  335.0  15.0  301.6  2.0  0  0.00  31.   999.   2 NAD-SFC NoSubs
 9  5 23 143 15  151.8  0.181  1.655  0.009 1065.  184.     -3.5  0.2930  0.52  0.19  1.00  346.0  15.0  302.2  2.0  0  0.00  29.   999.   2 NAD-SFC NoSubs
 9  5 23 143 16  119.5  0.227  1.551  0.009 1114.  259.     -8.7  0.2930  0.52  0.20  1.50  340.0  15.0  302.8  2.0  0  0.00  27.   999.   2 NAD-SFC NoSubs
 9  5 23 143 17   78.5  0.314  1.360  0.009 1144.  422.    -35.1  0.2720  0.52  0.22  2.60  312.0  15.0  302.2  2.0  0  0.00  32.   999.   2 NAD-SFC NoSubs
 9  5 23 143 18   31.5  0.453  1.006  0.009 1152.  732.   -262.9  0.2160  0.52  0.30  4.60  279.0  15.0  300.2  2.0  0  0.00  44.  1000.   2 NAD-SFC NoSubs
 9  5 23 143 19  -33.0  0.472 -9.000 -9.000 -999.  777.    283.7  0.2160  0.52  0.55  5.10  272.0  15.0  296.4  2.0  0  0.00  54.  1001.   2 NAD-SFC NoSubs
 9  5 23 143 20  -41.8  0.398 -9.000 -9.000 -999.  607.    134.3  0.1750  0.52  1.00  4.60  264.0  15.0  293.6  2.0  0  0.00  62.  1001.   2 NAD-SFC NoSubs
 9  5 23 143 21  -46.9  0.443 -9.000 -9.000 -999.  707.    165.3  0.1750  0.52  1.00  5.10  264.0  15.0  291.6  2.0  0  0.00  67.  1002.   2 NAD-SFC NoSubs
 9  5 23 143 22  -37.6  0.353 -9.000 -9.000 -999.  509.    104.4  0.1750  0.52  1.00  4.10  269.0  15.0  290.2  2.0  0  0.00  71.  1002.   2 NAD-SFC NoSubs
 9  5 23 143 23  -22.4  0.230 -9.000 -9.000 -999.  275.     48.8  0.2160  0.52  1.00  2.60  271.0  15.0  289.4  2.0  0  0.00  75.  1003.   2 NAD-SFC NoSubs
 9  5 23 143 24   -7.2  0.129 -9.000 -9.000 -999.  117.     26.4  0.2160  0.52  1.00  1.50  274.0  15.0  288.8  2.0  0  0.00  77.  1003.   2 NAD-SFC NoSubs
 9  5 24 144  1   -3.3  0.093 -9.000 -9.000 -999.   68.     21.7  0.1750  0.52  1.00  1.00  266.0  15.0  288.2  2.0  0  0.00  78.  1003.   3 NAD-SFC NoSubs
 9  5 24 144  2   -3.6  0.096 -9.000 -9.000 -999.   72.     22.4  0.2160  0.52  1.00  1.00  282.0  15.0  287.6  2.0  0  0.00  81.  1003.   3 NAD-SFC NoSubs
 9  5 24 144  3   -7.3  0.129 -9.000 -9.000 -999.  111.     26.3  0.2160  0.52  1.00  1.50  291.0  15.0  287.0  2.0  0  0.00  83.  1003.   2 NAD-SFC NoSubs
 9  5 24 144  4  -14.5  0.183 -9.000 -9.000 -999.  187.     37.8  0.2160  0.52  1.00  2.10  294.0  15.0  286.2  2.0  0  0.00  85.  1004.   2 NAD-SFC NoSubs
 9  5 24 144  5  -14.5  0.183 -9.000 -9.000 -999.  187.     37.7  0.2160  0.52  1.00  2.10  291.0  15.0  286.0  2.0  0  0.00  86.  1004.   2 NAD-SFC NoSubs
 9  5 24 144  6   -8.3  0.189 -9.000 -9.000 -999.  197.     72.4  0.2160  0.52  0.47  2.10  287.0  15.0  286.2  2.0  0  0.00  84.  1004.   2 NAD-SFC NoSubs
 9  5 24 144  7   36.9  0.187  0.541  0.009  153.  195.    -16.0  0.2160  0.52  0.28  1.50  295.0  15.0  288.2  2.0  0  0.00  75.  1005.   2 NAD-SFC NoSubs
 9  5 24 144  8   82.6 -9.000 -9.000 -9.000  277. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  289.8  2.0  0  0.00  71.  1005.   2 NAD-SFC NoSubs
 9  5 24 144  9  122.4 -9.000 -9.000 -9.000  423. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  291.5  2.0  0  0.00  66.  1004.   2 NAD-SFC NoSubs
 9  5 24 144 10  153.8 -9.000 -9.000 -9.000  607. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  293.4  2.0  0  0.00  58.  1004.   2 NAD-SFC NoSubs
 9  5 24 144 11  175.2 -9.000 -9.000 -9.000  735. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  295.2  2.0  0  0.00  49.  1003.   2 NAD-SFC NoSubs
 9  5 24 144 12  185.5 -9.000 -9.000 -9.000  838. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  296.9  2.0  0  0.00  43.  1002.   2 NAD-SFC NoSubs
 9  5 24 144 13  185.0  0.121  1.688  0.010  930.  101.     -1.0  0.2720  0.52  0.19  0.50  308.0  15.0  298.2  2.0  0  0.00  40.  1001.   2 NAD-SFC NoSubs
 9  5 24 144 14  173.6  0.184  1.700  0.010 1012.  189.     -3.2  0.2930  0.52  0.19  1.00  334.0  15.0  299.2  2.0  0  0.00  38.  1001.   2 NAD-SFC NoSubs
 9  5 24 144 15  151.0  0.291  1.659  0.010 1081.  378.    -14.6  0.2930  0.52  0.19  2.10  344.0  15.0  299.8  2.0  0  0.00  37.  1000.   2 NAD-SFC NoSubs
 9  5 24 144 16  118.6  0.378  1.555  0.010 1132.  557.    -40.5  0.2940  0.52  0.20  3.10    2.0  15.0  300.1  2.0  0  0.00  38.  1000.   2 NAD-SFC NoSubs
 9  5 24 144 17   78.6 -9.000 -9.000 -9.000 1164. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  299.9  2.0  0  0.00  41.  1000.   3 NAD-SFC NoSubs
 9  5 24 144 18   32.9  0.299  1.027  0.010 1176.  392.    -72.5  0.2940  0.52  0.30  2.60    9.0  15.0  299.4  2.0  0  0.00  51.  1000.   3 NAD-SFC NoSubs
 9  5 24 144 19  -17.7  0.300 -9.000 -9.000 -999.  395.    136.2  0.2720  0.52  0.54  3.10  304.0  15.0  298.8  2.0  0  0.00  52.  1001.   3 NAD-SFC NoSubs
 9  5 24 144 20  -50.8  0.498 -9.000 -9.000 -999.  842.    216.7  0.1750  0.52  1.00  5.70  258.0  15.0  295.0  2.0  0  0.00  65.  1001.   3 NAD-SFC NoSubs
 9  5 24 144 21  -51.3  0.497 -9.000 -9.000 -999.  842.    214.3  0.1750  0.52  1.00  5.70  260.0  15.0  291.9  2.0  0  0.00  72.  1001.   3 NAD-SFC NoSubs
 9  5 24 144 22  -41.2  0.398 -9.000 -9.000 -999.  610.    136.6  0.1750  0.52  1.00  4.60  262.0  15.0  290.8  2.0  0  0.00  76.  1002.   3 NAD-SFC NoSubs
 9  5 24 144 23  -36.7  0.353 -9.000 -9.000 -999.  505.    107.1  0.1750  0.52  1.00  4.10  263.0  15.0  289.8  2.0  0  0.00  80.  1002.   3 NAD-SFC NoSubs
 9  5 24 144 24  -32.1  0.308 -9.000 -9.000 -999.  412.     81.4  0.1750  0.52  1.00  3.60  266.0  15.0  289.0  2.0  0  0.00  82.  1002.   3 NAD-SFC NoSubs
 9  5 25 145  1  -14.0  0.183 -9.000 -9.000 -999.  197.     39.4  0.2160  0.52  1.00  2.10  273.0  15.0  288.6  2.0  0  0.00  84.  1002.   4 NAD-SFC NoSubs
 9  5 25 145  2   -3.5  0.095 -9.000 -9.000 -999.   75.     22.4  0.2160  0.52  1.00  1.00  293.0  15.0  288.2  2.0  0  0.00  84.  1003.   4 NAD-SFC NoSubs
 9  5 25 145  3   -3.3  0.094 -9.000 -9.000 -999.   69.     22.4  0.2160  0.52  1.00  1.00  293.0  15.0  287.9  2.0  0  0.00  85.  1003.   5 NAD-SFC NoSubs
 9  5 25 145  4   -3.2  0.093 -9.000 -9.000 -999.   68.     22.4  0.2160  0.52  1.00  1.00  294.0  15.0  287.8  2.0  0  0.00  85.  1003.   6 NAD-SFC NoSubs
 9  5 25 145  5   -3.4  0.094 -9.000 -9.000 -999.   69.     22.4  0.2160  0.52  1.00  1.00  277.0  15.0  287.5  2.0  0  0.00  85.  1004.   5 NAD-SFC NoSubs
 9  5 25 145  6   -0.4  0.047 -9.000 -9.000 -999.   25.     21.7  0.1750  0.52  0.47  0.50  260.0  15.0  287.5  2.0  0  0.00  85.  1004.   4 NAD-SFC NoSubs
 9  5 25 145  7   39.0  0.093  0.571  0.007  171.   68.     -1.8  0.2160  0.52  0.28  0.50  290.0  15.0  289.2  2.0  0  0.00  74.  1004.   4 NAD-SFC NoSubs
 9  5 25 145  8   83.9 -9.000 -9.000 -9.000  338. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  290.9  2.0  0  0.00  68.  1003.   3 NAD-SFC NoSubs
 9  5 25 145  9  123.2 -9.000 -9.000 -9.000  521. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  292.5  2.0  0  0.00  62.  1003.   3 NAD-SFC NoSubs
 9  5 25 145 10  154.3 -9.000 -9.000 -9.000  698. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  294.2  2.0  0  0.00  58.  1002.   3 NAD-SFC NoSubs
 9  5 25 145 11  175.5 -9.000 -9.000 -9.000  859. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  295.9  2.0  0  0.00  53.  1001.   3 NAD-SFC NoSubs
 9  5 25 145 12  185.5 -9.000 -9.000 -9.000 1004. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  297.2  2.0  0  0.00  49.  1000.   3 NAD-SFC NoSubs
 9  5 25 145 13  185.1 -9.000 -9.000 -9.000 1136. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  298.6  2.0  0  0.00  46.   999.   3 NAD-SFC NoSubs
 9  5 25 145 14  173.9 -9.000 -9.000 -9.000 1249. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  299.6  2.0  0  0.00  43.   998.   3 NAD-SFC NoSubs
 9  5 25 145 15  151.5  0.181  1.785  0.009 1338.  184.     -3.5  0.2940  0.52  0.19  1.00   11.0  15.0  300.2  2.0  0  0.00  42.   998.   3 NAD-SFC NoSubs
 9  5 25 145 16  119.5  0.227  1.667  0.010 1381.  260.     -8.7  0.2940  0.52  0.20  1.50    6.0  15.0  300.6  2.0  0  0.00  43.   997.   3 NAD-SFC NoSubs
 9  5 25 145 17   79.3  0.320  1.464  0.010 1408.  434.    -36.6  0.2940  0.52  0.22  2.60    9.0  15.0  300.5  2.0  0  0.00  45.   997.   3 NAD-SFC NoSubs
 9  5 25 145 18   33.7  0.254  1.103  0.010 1418.  309.    -43.2  0.2940  0.52  0.30  2.10   13.0  15.0  300.2  2.0  0  0.00  53.   998.   3 NAD-SFC NoSubs
 9  5 25 145 19  -11.3  0.205 -9.000 -9.000 -999.  223.     67.6  0.2940  0.52  0.54  2.10   10.0  15.0  299.6  2.0  0  0.00  55.   998.   3 NAD-SFC NoSubs
 9  5 25 145 20   -8.0  0.140 -9.000 -9.000 -999.  126.     30.3  0.2930  0.52  1.00  1.50  354.0  15.0  298.5  2.0  0  0.00  59.   998.   3 NAD-SFC NoSubs
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 9  5 25 145 21  -31.2  0.308 -9.000 -9.000 -999.  411.    83.8  0.1750  0.52  1.00   3.60  268.0  15.0  296.9  2.0   0  0.00  63.   998.    3 NAD-SFC NoSubs
 9  5 25 145 22  -47.9  0.468 -9.000 -9.000 -999.  768.   190.5  0.2160  0.52  1.00   5.10  273.0  15.0  293.5  2.0   0  0.00  69.   999.    3 NAD-SFC NoSubs
 9  5 25 145 23  -43.2  0.420 -9.000 -9.000 -999.  656.   152.7  0.2160  0.52  1.00   4.60  272.0  15.0  291.8  2.0   0  0.00  69.   999.    3 NAD-SFC NoSubs
 9  5 25 145 24  -28.7  0.278 -9.000 -9.000 -999.  366.    66.8  0.2160  0.52  1.00   3.10  285.0  15.0  290.9  2.0   0  0.00  72.   999.    3 NAD-SFC NoSubs
 9  5 26 146  1   -7.1  0.129 -9.000 -9.000 -999.  131.    26.8  0.2160  0.52  1.00   1.50  279.0  15.0  290.6  2.0   0  0.00  72.   999.    3 NAD-SFC NoSubs
 9  5 26 146  2   -3.3  0.093 -9.000 -9.000 -999.   68.    21.6  0.1750  0.52  1.00   1.00  249.0  15.0  290.5  2.0   0  0.00  72.  1000.    3 NAD-SFC NoSubs
 9  5 26 146  3   -6.7  0.125 -9.000 -9.000 -999.  106.    25.7  0.1900  0.52  1.00   1.50  198.0  15.0  290.4  2.0   0  0.00  72.  1000.    3 NAD-SFC NoSubs
 9  5 26 146  4   -6.7  0.125 -9.000 -9.000 -999.  106.    25.7  0.1900  0.52  1.00   1.50  196.0  15.0  290.1  2.0   0  0.00  72.  1000.    3 NAD-SFC NoSubs
 9  5 26 146  5   -3.4  0.095 -9.000 -9.000 -999.   70.    22.0  0.1950  0.52  1.00   1.00  229.0  15.0  289.8  2.0   0  0.00  73.  1001.    3 NAD-SFC NoSubs
 9  5 26 146  6   -1.5  0.082 -9.000 -9.000 -999.   56.    31.5  0.1750  0.52  0.47   1.00  268.0  15.0  289.6  2.0   0  0.00  74.  1002.    3 NAD-SFC NoSubs
 9  5 26 146  7   38.4  0.201  0.558  0.008  161.  216.   -18.9  0.2930  0.52  0.28   1.50  330.0  15.0  291.2  2.0   0  0.00  67.  1002.    2 NAD-SFC NoSubs
 9  5 26 146  8   84.2 -9.000 -9.000 -9.000  311. -999. -99999.0  0.2235  0.52  0.22   0.00    0.0  15.0  293.1  2.0   0  0.00  59.  1002.    2 NAD-SFC NoSubs
 9  5 26 146  9  123.8 -9.000 -9.000 -9.000  473. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  294.8  2.0   0  0.00  54.  1001.    2 NAD-SFC NoSubs
 9  5 26 146 10  155.2 -9.000 -9.000 -9.000  662. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  296.4  2.0   0  0.00  49.  1001.    2 NAD-SFC NoSubs
 9  5 26 146 11  176.7 -9.000 -9.000 -9.000  894. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  298.0  2.0   0  0.00  45.  1000.    2 NAD-SFC NoSubs
 9  5 26 146 12  186.9 -9.000 -9.000 -9.000 1084. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  299.5  2.0   0  0.00  41.   999.    2 NAD-SFC NoSubs
 9  5 26 146 13  186.5 -9.000 -9.000 -9.000 1243. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  300.8  2.0   0  0.00  38.   998.    2 NAD-SFC NoSubs
 9  5 26 146 14  175.2  0.120  1.882  0.009 1357.  100.    -1.0  0.2720  0.52  0.19   0.50  322.0  15.0  301.6  2.0   0  0.00  36.   998.    2 NAD-SFC NoSubs
 9  5 26 146 15  152.7  0.233  1.822  0.009 1412.  271.    -7.4  0.2930  0.52  0.19   1.50  357.0  15.0  302.2  2.0   0  0.00  35.   997.    2 NAD-SFC NoSubs
 9  5 26 146 16  120.4  0.332  1.700  0.009 1453.  458.   -26.9  0.2940  0.52  0.20   2.60    7.0  15.0  302.6  2.0   0  0.00  34.   997.    2 NAD-SFC NoSubs
 9  5 26 146 17   79.8  0.320  1.492  0.009 1480.  434.   -36.4  0.2940  0.52  0.22   2.60   14.0  15.0  302.4  2.0   0  0.00  36.   996.    2 NAD-SFC NoSubs
 9  5 26 146 18   33.9  0.198  1.124  0.009 1490.  220.   -20.5  0.2930  0.52  0.30   1.50  347.0  15.0  302.1  2.0   0  0.00  43.   997.    2 NAD-SFC NoSubs
 9  5 26 146 19   -6.2  0.142 -9.000 -9.000 -999.  130.    41.6  0.2930  0.52  0.53   1.50  332.0  15.0  301.1  2.0   0  0.00  46.   997.    2 NAD-SFC NoSubs
 9  5 26 146 20   -7.8  0.137 -9.000 -9.000 -999.  121.    29.1  0.2720  0.52  1.00   1.50  300.0  15.0  300.0  2.0   0  0.00  49.   998.    2 NAD-SFC NoSubs
 9  5 26 146 21  -33.6  0.325 -9.000 -9.000 -999.  445.    91.2  0.2160  0.52  1.00   3.60  278.0  15.0  298.1  2.0   0  0.00  55.   998.    2 NAD-SFC NoSubs
 9  5 26 146 22  -38.9  0.373 -9.000 -9.000 -999.  545.   118.4  0.2160  0.52  1.00   4.10  289.0  15.0  295.2  2.0   0  0.00  64.   999.    2 NAD-SFC NoSubs
 9  5 26 146 23  -34.1  0.325 -9.000 -9.000 -999.  447.    89.8  0.2160  0.52  1.00   3.60  287.0  15.0  293.8  2.0   0  0.00  67.   999.    2 NAD-SFC NoSubs
 9  5 26 146 24  -22.2  0.231 -9.000 -9.000 -999.  270.    49.1  0.2160  0.52  1.00   2.60  298.0  15.0  292.9  2.0   0  0.00  67.   999.    2 NAD-SFC NoSubs
 9  5 27 147  1   -3.9  0.101 -9.000 -9.000 -999.   90.    23.3  0.2720  0.52  1.00   1.00  308.0  15.0  292.6  2.0   0  0.00  66.   999.    2 NAD-SFC NoSubs
 9  5 27 147  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  292.5  2.0   0  0.00  66.  1000.    2 NAD-SFC NoSubs
 9  5 27 147  3   -1.5  0.080 -9.000 -9.000 -999.   54.    31.2  0.1950  0.52  1.00   0.50  214.0  15.0  292.2  2.0   0  0.00  66.  1000.    2 NAD-SFC NoSubs
 9  5 27 147  4   -6.9  0.126 -9.000 -9.000 -999.  107.    25.6  0.1950  0.52  1.00   1.50  211.0  15.0  291.6  2.0   0  0.00  70.  1000.    2 NAD-SFC NoSubs
 9  5 27 147  5  -13.7  0.178 -9.000 -9.000 -999.  180.    36.7  0.1950  0.52  1.00   2.10  228.0  15.0  291.2  2.0   0  0.00  71.  1000.    2 NAD-SFC NoSubs
 9  5 27 147  6   -6.0  0.180 -9.000 -9.000 -999.  183.    87.3  0.1750  0.52  0.47   2.10  253.0  15.0  291.2  2.0   0  0.00  72.  1001.    2 NAD-SFC NoSubs
 9  5 27 147  7   39.2  0.198  0.518  0.008  126.  211.   -17.7  0.2720  0.52  0.28   1.50  312.0  15.0  292.9  2.0   0  0.00  65.  1001.    2 NAD-SFC NoSubs
 9  5 27 147  8   84.9  0.103  0.851  0.007  259.   83.    -1.2  0.2160  0.52  0.22   0.50  295.0  15.0  294.8  2.0   0  0.00  60.  1001.    2 NAD-SFC NoSubs
 9  5 27 147  9  125.0  0.109  1.111  0.005  391.   86.    -1.0  0.2160  0.52  0.20   0.50  272.0  15.0  297.2  2.0   0  0.00  52.  1000.    2 NAD-SFC NoSubs
 9  5 27 147 10  156.5 -9.000 -9.000 -9.000  615. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  299.1  2.0   0  0.00  47.  1000.    2 NAD-SFC NoSubs
 9  5 27 147 11  178.2 -9.000 -9.000 -9.000  848. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  301.2  2.0   0  0.00  39.   999.    2 NAD-SFC NoSubs
 9  5 27 147 12  188.7 -9.000 -9.000 -9.000 1009. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  302.9  2.0   0  0.00  34.   998.    2 NAD-SFC NoSubs
 9  5 27 147 13  188.4 -9.000 -9.000 -9.000 1091. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  304.1  2.0   0  0.00  31.   998.    2 NAD-SFC NoSubs
 9  5 27 147 14  177.1  0.118  1.796  0.008 1164.   97.    -1.0  0.2470  0.52  0.19   0.50   30.0  15.0  305.0  2.0   0  0.00  30.   997.    2 NAD-SFC NoSubs
 9  5 27 147 15  154.6  0.174  1.746  0.007 1225.  175.    -3.0  0.2470  0.52  0.19   1.00   34.0  15.0  305.4  2.0   0  0.00  31.   996.    2 NAD-SFC NoSubs
 9  5 27 147 16  122.2  0.286  1.634  0.007 1269.  366.   -16.9  0.2940  0.52  0.20   2.10   26.0  15.0  305.4  2.0   0  0.00  33.   996.    2 NAD-SFC NoSubs
 9  5 27 147 17   81.4  0.320  1.437  0.007 1297.  435.   -35.9  0.2940  0.52  0.22   2.60   28.0  15.0  304.8  2.0   0  0.00  41.   996.    2 NAD-SFC NoSubs
 9  5 27 147 18   35.6  0.255  1.094  0.007 1309.  311.   -41.4  0.2930  0.52  0.30   2.10  337.0  15.0  304.6  2.0   0  0.00  44.   997.    2 NAD-SFC NoSubs
 9  5 27 147 19  -25.7  0.474 -9.000 -9.000 -999.  783.   369.5  0.2160  0.52  0.53   5.10  285.0  15.0  301.5  2.0   0  0.00  54.   998.    2 NAD-SFC NoSubs
 9  5 27 147 20  -38.5  0.373 -9.000 -9.000 -999.  554.   119.5  0.2160  0.52  1.00   4.10  271.0  15.0  297.8  2.0   0  0.00  65.   998.    2 NAD-SFC NoSubs
 9  5 27 147 21  -38.8  0.373 -9.000 -9.000 -999.  546.   118.7  0.2160  0.52  1.00   4.10  285.0  15.0  295.9  2.0   0  0.00  67.   999.    2 NAD-SFC NoSubs
 9  5 27 147 22  -22.2  0.231 -9.000 -9.000 -999.  279.    49.3  0.2160  0.52  1.00   2.60  296.0  15.0  294.9  2.0   0  0.00  68.   999.    2 NAD-SFC NoSubs
 9  5 27 147 23  -25.7  0.252 -9.000 -9.000 -999.  303.    55.5  0.2940  0.52  1.00   2.60    6.0  15.0  294.4  2.0   0  0.00  68.  1000.    2 NAD-SFC NoSubs
 9  5 27 147 24  -35.5  0.337 -9.000 -9.000 -999.  470.    96.6  0.2470  0.52  1.00   3.60   30.0  15.0  293.5  2.0   0  0.00  72.  1000.    2 NAD-SFC NoSubs
 9  5 28 148  1  -37.4  0.355 -9.000 -9.000 -999.  507.   106.5  0.2940  0.52  1.00   3.60   10.0  15.0  292.8  2.0   0  0.00  75.  1001.    2 NAD-SFC NoSubs
 9  5 28 148  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  292.0  2.0   0  0.00  77.  1001.    2 NAD-SFC NoSubs
 9  5 28 148  3  -25.8  0.252 -9.000 -9.000 -999.  303.    55.2  0.2940  0.52  1.00   2.60    8.0  15.0  291.5  2.0   0  0.00  77.  1001.    2 NAD-SFC NoSubs
 9  5 28 148  4   -8.3  0.140 -9.000 -9.000 -999.  132.    29.5  0.2940  0.52  1.00   1.50   18.0  15.0  291.2  2.0   0  0.00  78.  1001.    2 NAD-SFC NoSubs
 9  5 28 148  5   -3.8  0.099 -9.000 -9.000 -999.   75.    22.9  0.2470  0.52  1.00   1.00   54.0  15.0  290.8  2.0   0  0.00  80.  1001.    2 NAD-SFC NoSubs
 9  5 28 148  6   -1.7  0.085 -9.000 -9.000 -999.   60.    31.7  0.2090  0.52  0.46   1.00   88.0  15.0  290.8  2.0   0  0.00  82.  1002.    2 NAD-SFC NoSubs
 9  5 28 148  7   39.4 -9.000 -9.000 -9.000  129. -999. -99999.0  0.2235  0.52  0.28   0.00    0.0  15.0  292.8  2.0   0  0.00  70.  1002.    2 NAD-SFC NoSubs
 9  5 28 148  8   85.2 -9.000 -9.000 -9.000  236. -999. -99999.0  0.2235  0.52  0.22   0.00    0.0  15.0  295.0  2.0   0  0.00  62.  1001.    2 NAD-SFC NoSubs
 9  5 28 148  9  125.1 -9.000 -9.000 -9.000  363. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  297.2  2.0   0  0.00  52.  1001.    2 NAD-SFC NoSubs
 9  5 28 148 10  156.7 -9.000 -9.000 -9.000  536. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  299.2  2.0   0  0.00  46.  1000.    2 NAD-SFC NoSubs
 9  5 28 148 11  178.4 -9.000 -9.000 -9.000  694. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  301.2  2.0   0  0.00  40.  1000.    2 NAD-SFC NoSubs
 9  5 28 148 12  189.0 -9.000 -9.000 -9.000  823. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  303.2  2.0   0  0.00  36.   999.    2 NAD-SFC NoSubs
 9  5 28 148 13  188.8  0.123  1.705  0.007  936.  104.    -1.0  0.2940  0.52  0.19   0.50   11.0  15.0  304.5  2.0   0  0.00  33.   998.    2 NAD-SFC NoSubs
 9  5 28 148 14  177.4  0.376  1.729  0.006 1040.  553.   -26.6  0.2470  0.52  0.19   3.10   33.0  15.0  305.0  2.0   0  0.00  33.   998.    2 NAD-SFC NoSubs
 9  5 28 148 15  154.6  0.416  1.697  0.006 1127.  643.   -41.4  0.2470  0.52  0.19   3.60   48.0  15.0  304.9  2.0   0  0.00  35.   998.    2 NAD-SFC NoSubs
 9  5 28 148 16  121.4  0.521  1.592  0.005 1187.  903.  -104.0  0.2090  0.52  0.20   5.10   78.0  15.0  303.2  2.0   0  0.51  49.   999.    2 NAD-SFC NoSubs
 9  5 28 148 17   79.9  0.656  1.399  0.005 1221. 1274.  -315.1  0.2940  0.52  0.22   6.20   18.0  15.0  300.9  2.0   0  0.76  48.   999.    2 NAD-SFC NoSubs
 9  5 28 148 18   34.1  0.236  1.058  0.005 1238.  538.   -34.4  0.2090  0.52  0.30   2.10   61.0  15.0  300.8  2.0   0  0.00  47.   999.    2 NAD-SFC NoSubs
 9  5 28 148 19   -0.9  0.063 -9.000 -9.000 -999.  254.    25.9  0.2470  0.52  0.53   0.50   32.0  15.0  300.6  2.0   0  0.00  48.  1000.    2 NAD-SFC NoSubs
 9  5 28 148 20  -22.0  0.231 -9.000 -9.000 -999.  266.    49.8  0.2160  0.52  1.00   2.60  294.0  15.0  299.9  2.0   0  0.00  51.  1000.    2 NAD-SFC NoSubs
 9  5 28 148 21  -33.7  0.325 -9.000 -9.000 -999.  445.    91.1  0.2160  0.52  1.00   3.60  289.0  15.0  297.8  2.0   0  0.00  58.  1000.    2 NAD-SFC NoSubs
 9  5 28 148 22  -36.1  0.347 -9.000 -9.000 -999.  490.   103.1  0.2720  0.52  1.00   3.60  313.0  15.0  296.6  2.0   0  0.00  61.  1000.    2 NAD-SFC NoSubs
 9  5 28 148 23  -36.2  0.347 -9.000 -9.000 -999.  490.   102.7  0.2720  0.52  1.00   3.60  312.0  15.0  295.4  2.0   0  0.00  64.  1000.    2 NAD-SFC NoSubs
 9  5 28 148 24  -46.9  0.448 -9.000 -9.000 -999.  718.   170.3  0.2720  0.52  1.00   4.60  306.0  15.0  294.2  2.0   0  0.00  69.  1000.    2 NAD-SFC NoSubs
 9  5 29 149  1  -47.2  0.447 -9.000 -9.000 -999.  718.   169.6  0.2720  0.52  1.00   4.60  306.0  15.0  293.0  2.0   0  0.00  73.  1001.    2 NAD-SFC NoSubs
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 9  5 29 149  2  -32.0  0.303 -9.000 -9.000 -999.  416.     77.6  0.2930  0.52  1.00  3.10  330.0  15.0  292.4  2.0   0  0.00  75.  1002.   2 NAD-SFC NoSubs
 9  5 29 149  3  -42.1  0.397 -9.000 -9.000 -999.  600.    132.8  0.2720  0.52  1.00  4.10  320.0  15.0  291.6  2.0   0  0.00  78.  1002.   2 NAD-SFC NoSubs
 9  5 29 149  4  -24.9  0.246 -9.000 -9.000 -999.  309.     53.5  0.2720  0.52  1.00  2.60  306.0  15.0  291.1  2.0   0  0.00  79.  1002.   2 NAD-SFC NoSubs
 9  5 29 149  5  -15.9  0.195 -9.000 -9.000 -999.  208.     41.7  0.2720  0.52  1.00  2.10  314.0  15.0  291.0  2.0   0  0.00  77.  1002.   2 NAD-SFC NoSubs
 9  5 29 149  6   -4.2  0.139 -9.000 -9.000 -999.  125.     56.5  0.2470  0.52  0.46  1.50   50.0  15.0  291.1  2.0   0  0.00  77.  1003.   2 NAD-SFC NoSubs
 9  5 29 149  7   39.3  0.142  0.546  0.014  148.  129.     -6.5  0.2090  0.52  0.28  1.00   65.0  15.0  291.8  2.0   0  0.00  73.  1003.   2 NAD-SFC NoSubs
 9  5 29 149  8   85.0 -9.000 -9.000 -9.000  238. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  293.8  2.0   0  0.00  65.  1003.   2 NAD-SFC NoSubs
 9  5 29 149  9  124.9 -9.000 -9.000 -9.000  336. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  296.2  2.0   0  0.00  55.  1003.   2 NAD-SFC NoSubs
 9  5 29 149 10  156.4 -9.000 -9.000 -9.000  472. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  298.2  2.0   0  0.00  49.  1002.   2 NAD-SFC NoSubs
 9  5 29 149 11  178.2 -9.000 -9.000 -9.000  635. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  300.5  2.0   0  0.00  42.  1001.   2 NAD-SFC NoSubs
 9  5 29 149 12  188.6 -9.000 -9.000 -9.000  769. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  302.2  2.0   0  0.00  38.  1001.   2 NAD-SFC NoSubs
 9  5 29 149 13  188.4  0.186  1.670  0.007  884.  192.     -3.0  0.2940  0.52  0.19  1.00   19.0  15.0  303.4  2.0   0  0.00  35.  1000.   2 NAD-SFC NoSubs
 9  5 29 149 14  176.7  0.437  1.692  0.006  978.  692.    -42.0  0.2940  0.52  0.19  3.60   24.0  15.0  303.4  2.0   0  0.00  37.  1000.   2 NAD-SFC NoSubs
 9  5 29 149 15  153.4  0.503  1.662  0.005 1070.  856.    -74.1  0.2470  0.52  0.19  4.60   34.0  15.0  302.0  2.0   0  0.00  50.  1000.   2 NAD-SFC NoSubs
 9  5 29 149 16  120.7  0.378  1.567  0.005 1137.  570.    -39.9  0.2940  0.52  0.20  3.10   12.0  15.0  301.2  2.0   0  0.00  56.  1000.   2 NAD-SFC NoSubs
 9  5 29 149 17   81.2  0.405  1.389  0.005 1180.  618.    -73.0  0.2720  0.52  0.22  3.60  323.0  15.0  301.1  2.0   0  0.00  57.  1001.   3 NAD-SFC NoSubs
 9  5 29 149 18   35.2  0.455  1.056  0.005 1194.  735.   -238.5  0.2160  0.52  0.29  4.60  291.0  15.0  299.6  2.0   0  0.00  58.  1002.   3 NAD-SFC NoSubs
 9  5 29 149 19  -22.8  0.450 -9.000 -9.000 -999.  724.    356.1  0.1750  0.52  0.52  5.10  268.0  15.0  297.2  2.0   0  0.00  59.  1002.   3 NAD-SFC NoSubs
 9  5 29 149 20  -46.4  0.443 -9.000 -9.000 -999.  708.    167.4  0.1750  0.52  1.00  5.10  266.0  15.0  295.2  2.0   0  0.00  60.  1002.   2 NAD-SFC NoSubs
 9  5 29 149 21  -34.2  0.325 -9.000 -9.000 -999.  455.     89.9  0.2160  0.52  1.00  3.60  276.0  15.0  294.0  2.0   0  0.00  62.  1003.   2 NAD-SFC NoSubs
 9  5 29 149 22  -25.4  0.252 -9.000 -9.000 -999.  306.     56.2  0.2930  0.52  1.00  2.60  349.0  15.0  293.5  2.0   0  0.00  62.  1004.   3 NAD-SFC NoSubs
 9  5 29 149 23  -29.7  0.289 -9.000 -9.000 -999.  372.     72.4  0.2470  0.52  1.00  3.10   35.0  15.0  293.1  2.0   0  0.00  64.  1005.   3 NAD-SFC NoSubs
 9  5 29 149 24  -31.3  0.304 -9.000 -9.000 -999.  401.     79.9  0.2940  0.52  1.00  3.10   17.0  15.0  292.5  2.0   0  0.00  66.  1005.   3 NAD-SFC NoSubs
 9  5 30 150  1  -25.6  0.252 -9.000 -9.000 -999.  305.     56.1  0.2940  0.52  1.00  2.60    6.0  15.0  291.8  2.0   0  0.00  67.  1005.   3 NAD-SFC NoSubs
 9  5 30 150  2  -31.5  0.303 -9.000 -9.000 -999.  401.     79.5  0.2940  0.52  1.00  3.10    8.0  15.0  290.9  2.0   0  0.00  67.  1005.   3 NAD-SFC NoSubs
 9  5 30 150  3  -31.6  0.303 -9.000 -9.000 -999.  401.     79.0  0.2930  0.52  1.00  3.10  350.0  15.0  289.9  2.0   0  0.00  69.  1006.   3 NAD-SFC NoSubs
 9  5 30 150  4  -25.7  0.252 -9.000 -9.000 -999.  304.     55.7  0.2930  0.52  1.00  2.60  339.0  15.0  289.2  2.0   0  0.00  69.  1006.   3 NAD-SFC NoSubs
 9  5 30 150  5  -16.5  0.200 -9.000 -9.000 -999.  215.     43.5  0.2930  0.52  1.00  2.10  351.0  15.0  289.0  2.0   0  0.00  68.  1006.   3 NAD-SFC NoSubs
 9  5 30 150  6   -5.2  0.209 -9.000 -9.000 -999.  229.    157.8  0.2940  0.52  0.46  2.10   13.0  15.0  288.8  2.0   0  0.00  68.  1006.   3 NAD-SFC NoSubs
 9  5 30 150  7   40.0  0.202  0.557  0.010  155.  217.    -18.4  0.2930  0.52  0.27  1.50  335.0  15.0  289.8  2.0   0  0.00  61.  1006.   3 NAD-SFC NoSubs
 9  5 30 150  8   85.0 -9.000 -9.000 -9.000  277. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  291.1  2.0   0  0.00  56.  1006.   3 NAD-SFC NoSubs
 9  5 30 150  9  124.1 -9.000 -9.000 -9.000  415. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  292.5  2.0   0  0.00  52.  1005.   3 NAD-SFC NoSubs
 9  5 30 150 10  154.8 -9.000 -9.000 -9.000  556. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  293.8  2.0   0  0.00  50.  1004.   2 NAD-SFC NoSubs
 9  5 30 150 11  176.2 -9.000 -9.000 -9.000  693. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  295.2  2.0   0  0.00  48.  1004.   2 NAD-SFC NoSubs
 9  5 30 150 12  186.6 -9.000 -9.000 -9.000  857. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  297.2  2.0   0  0.00  44.  1002.   2 NAD-SFC NoSubs
 9  5 30 150 13  186.4  0.185  1.729  0.007  992.  192.     -3.1  0.2930  0.52  0.19  1.00  356.0  15.0  298.9  2.0   0  0.00  41.  1002.   2 NAD-SFC NoSubs
 9  5 30 150 14  175.3  0.296  1.753  0.007 1099.  387.    -13.2  0.2940  0.52  0.19  2.10   15.0  15.0  300.0  2.0   0  0.00  39.  1001.   2 NAD-SFC NoSubs
 9  5 30 150 15  152.8  0.432  1.717  0.007 1183.  680.    -46.9  0.2940  0.52  0.19  3.60    6.0  15.0  300.2  2.0   0  0.00  40.  1000.   2 NAD-SFC NoSubs
 9  5 30 150 16  120.5  0.378  1.613  0.008 1244.  560.    -40.0  0.2940  0.52  0.20  3.10    7.0  15.0  300.0  2.0   0  0.00  42.  1000.   2 NAD-SFC NoSubs
 9  5 30 150 17   80.2 -9.000 -9.000 -9.000 1283. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  299.9  2.0   0  0.00  48.  1000.   2 NAD-SFC NoSubs
 9  5 30 150 18   35.8  0.098  1.093  0.007 1300.   74.     -2.4  0.2940  0.52  0.29  0.50   26.0  15.0  299.9  2.0   0  0.00  48.  1000.   3 NAD-SFC NoSubs
 9  5 30 150 19   -8.5  0.189 -9.000 -9.000 -999.  197.    71.0  0.2160  0.52  0.52  2.10  295.0  15.0  299.2  2.0   0  0.00  49.  1001.   3 NAD-SFC NoSubs
 9  5 30 150 20  -42.8  0.420 -9.000 -9.000 -999.  654.   154.8  0.2160  0.52  1.00  4.60  282.0  15.0  295.8  2.0   0  0.00  58.  1002.   3 NAD-SFC NoSubs
 9  5 30 150 21  -43.3  0.420 -9.000 -9.000 -999.  653.   153.2  0.2160  0.52  1.00  4.60  282.0  15.0  292.8  2.0   0  0.00  64.  1003.   3 NAD-SFC NoSubs
 9  5 30 150 22  -33.7  0.325 -9.000 -9.000 -999.  451.    91.5  0.2160  0.52  1.00  3.60  280.0  15.0  291.4  2.0   0  0.00  66.  1003.   3 NAD-SFC NoSubs
 9  5 30 150 23  -28.9  0.278 -9.000 -9.000 -999.  353.    66.7  0.2160  0.52  1.00  3.10  288.0  15.0  290.6  2.0   0  0.00  67.  1004.   3 NAD-SFC NoSubs
 9  5 30 150 24  -24.7  0.246 -9.000 -9.000 -999.  294.    54.1  0.2720  0.52  1.00  2.60  313.0  15.0  290.0  2.0   0  0.00  68.  1004.   3 NAD-SFC NoSubs
 9  5 31 151  1  -24.7  0.246 -9.000 -9.000 -999.  293.    54.1  0.2720  0.52  1.00  2.60  323.0  15.0  289.8  2.0   0  0.00  67.  1004.   3 NAD-SFC NoSubs
 9  5 31 151  2  -24.7  0.246 -9.000 -9.000 -999.  293.    54.1  0.2720  0.52  1.00  2.60  322.0  15.0  289.4  2.0   0  0.00  67.  1004.   3 NAD-SFC NoSubs
 9  5 31 151  3   -7.9  0.137 -9.000 -9.000 -999.  127.    29.0  0.2720  0.52  1.00  1.50  322.0  15.0  289.2  2.0   0  0.00  66.  1004.   3 NAD-SFC NoSubs
 9  5 31 151  4   -1.6  0.083 -9.000 -9.000 -999.   58.    31.8  0.2930  0.52  1.00  0.50  331.0  15.0  289.1  2.0   0  0.00  67.  1004.   3 NAD-SFC NoSubs
 9  5 31 151  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  288.9  2.0   0  0.00  68.  1004.   3 NAD-SFC NoSubs
 9  5 31 151  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.46  0.00    0.0  15.0  288.8  2.0   0  0.00  70.  1005.   3 NAD-SFC NoSubs
 9  5 31 151  7   40.1  0.100  0.569  0.008  164.   75.     -2.2  0.2930  0.52  0.27  0.50  356.0  15.0  289.4  2.0   0  0.00  67.  1005.   3 NAD-SFC NoSubs
 9  5 31 151  8   85.2 -9.000 -9.000 -9.000  332. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  291.1  2.0   0  0.00  60.  1005.   3 NAD-SFC NoSubs
 9  5 31 151  9  124.3 -9.000 -9.000 -9.000  500. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  292.9  2.0   0  0.00  55.  1004.   3 NAD-SFC NoSubs
 9  5 31 151 10  155.2 -9.000 -9.000 -9.000  656. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  294.5  2.0   0  0.00  52.  1004.   3 NAD-SFC NoSubs
 9  5 31 151 11  176.6 -9.000 -9.000 -9.000  802. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  295.9  2.0   0  0.00  51.  1003.   2 NAD-SFC NoSubs
 9  5 31 151 12  186.7 -9.000 -9.000 -9.000  934. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  297.2  2.0   0  0.00  49.  1002.   2 NAD-SFC NoSubs
 9  5 31 151 13  186.5  0.123  1.749  0.011 1025.  104.     -1.0  0.2930  0.52  0.19  0.50  351.0  15.0  298.8  2.0   0  0.00  47.  1000.   2 NAD-SFC NoSubs
 9  5 31 151 14  175.5  0.184  1.752  0.011 1094.  190.     -3.2  0.2940  0.52  0.19  1.00    5.0  15.0  299.9  2.0   0  0.00  45.   999.   2 NAD-SFC NoSubs
 9  5 31 151 15  153.3  0.292  1.703  0.011 1151.  379.    -14.5  0.2940  0.52  0.19  2.10    5.0  15.0  300.8  2.0   0  0.00  43.   999.   2 NAD-SFC NoSubs
 9  5 31 151 16  121.3  0.378  1.596  0.011 1194.  558.    -39.7  0.2940  0.52  0.20  3.10   13.0  15.0  301.0  2.0   0  0.00  43.   998.   2 NAD-SFC NoSubs
 9  5 31 151 17   81.0  0.366  1.405  0.011 1221.  532.    -54.0  0.2940  0.52  0.22  3.10   12.0  15.0  300.8  2.0   0  0.00  47.   998.   2 NAD-SFC NoSubs
 9  5 31 151 18   35.4 -9.000 -9.000 -9.000 1232. -999. -99999.0  0.2235  0.52  0.29  0.00    0.0  15.0  300.6  2.0   0  0.00  54.   999.   2 NAD-SFC NoSubs
 9  5 31 151 19   -5.3  0.144 -9.000 -9.000 -999.  132.    50.8  0.2930  0.52  0.51  1.50  354.0  15.0  299.9  2.0   0  0.00  55.   999.   3 NAD-SFC NoSubs
 9  5 31 151 20  -42.4  0.420 -9.000 -9.000 -999.  654.   156.1  0.2160  0.52  1.00  4.60  284.0  15.0  298.0  2.0   0  0.00  59.  1000.   3 NAD-SFC NoSubs
 9  5 31 151 21  -47.9  0.468 -9.000 -9.000 -999.  767.   190.5  0.2160  0.52  1.00  5.10  271.0  15.0  293.5  2.0   0  0.00  62.  1001.   3 NAD-SFC NoSubs
 9  5 31 151 22  -38.4  0.373 -9.000 -9.000 -999.  553.   120.2  0.2160  0.52  1.00  4.10  275.0  15.0  291.8  2.0   0  0.00  65.  1001.   3 NAD-SFC NoSubs
 9  5 31 151 23  -31.9  0.308 -9.000 -9.000 -999.  413.    82.0  0.1750  0.52  1.00  3.60  267.0  15.0  290.9  2.0   0  0.00  68.  1001.   3 NAD-SFC NoSubs
 9  5 31 151 24  -33.7  0.325 -9.000 -9.000 -999.  445.    91.1  0.2160  0.52  1.00  3.60  277.0  15.0  290.2  2.0   0  0.00  71.  1001.   3 NAD-SFC NoSubs
 9  6  1 152  1  -22.1  0.231 -9.000 -9.000 -999.  270.    49.5  0.2160  0.52  1.00  2.60  294.0  15.0  290.0  2.0   0  0.00  72.  1001.   3 NAD-SFC NoSubs
 9  6  1 152  2   -7.9  0.137 -9.000 -9.000 -999.  125.    29.0  0.2720  0.52  1.00  1.50  315.0  15.0  290.0  2.0   0  0.00  71.  1002.   3 NAD-SFC NoSubs
 9  6  1 152  3   -1.6  0.082 -9.000 -9.000 -999.   57.    31.4  0.2940  0.52  1.00  0.50   18.0  15.0  290.0  2.0   0  0.00  72.  1002.   4 NAD-SFC NoSubs
 9  6  1 152  4   -1.5  0.082 -9.000 -9.000 -999.   56.    31.5  0.2470  0.52  1.00  0.50   47.0  15.0  289.9  2.0   0  0.00  73.  1002.   3 NAD-SFC NoSubs
 9  6  1 152  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  289.8  2.0   0  0.00  75.  1002.   4 NAD-SFC NoSubs
 9  6  1 152  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.46  0.00    0.0  15.0  289.5  2.0   0  0.00  76.  1003.   3 NAD-SFC NoSubs
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 9  6  1 152  7   40.6  0.154  0.654  0.007  246.  145.     -8.0  0.2940  0.52  0.27  1.00   12.0  15.0 290.5  2.0    0  0.00   70. 1003.    3 NAD-SFC NoSubs
 9  6  1 152  8   85.6  0.110  0.975  0.007  387.   88.     -1.4  0.2930  0.52  0.22  0.50  343.0  15.0 291.9  2.0    0  0.00   63. 1003.    3 NAD-SFC NoSubs
 9  6  1 152  9  124.5 -9.000 -9.000 -9.000  541. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0 293.1  2.0    0  0.00   60. 1003.    3 NAD-SFC NoSubs
 9  6  1 152 10  155.3 -9.000 -9.000 -9.000  693. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 294.2  2.0    0  0.00   57. 1003.    3 NAD-SFC NoSubs
 9  6  1 152 11  176.3 -9.000 -9.000 -9.000  853. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 295.4  2.0    0  0.00   53. 1003.    3 NAD-SFC NoSubs
 9  6  1 152 12  186.3  0.115  1.728  0.009  992.   93.     -1.0  0.2160  0.52  0.19  0.50  286.0  15.0 296.5  2.0    0  0.00   51. 1002.    3 NAD-SFC NoSubs
 9  6  1 152 13  185.9  0.121  1.787  0.009 1098.  101.     -1.0  0.2720  0.52  0.19  0.50  316.0  15.0 297.5  2.0    0  0.00   48. 1001.    3 NAD-SFC NoSubs
 9  6  1 152 14  174.8  0.184  1.798  0.010 1190.  189.     -3.2  0.2930  0.52  0.19  1.00  350.0  15.0 298.2  2.0    0  0.00   47. 1001.    3 NAD-SFC NoSubs
 9  6  1 152 15  152.7 -9.000 -9.000 -9.000 1265. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 298.6  2.0    0  0.00   47. 1000.    3 NAD-SFC NoSubs
 9  6  1 152 16  121.0  0.286  1.648  0.011 1321.  366.    -17.1  0.2940  0.52  0.20  2.10   11.0  15.0 299.0  2.0    0  0.00   46. 1000.    3 NAD-SFC NoSubs
 9  6  1 152 17   81.4  0.274  1.455  0.011 1351.  345.    -22.6  0.2940  0.52  0.22  2.10   18.0  15.0 299.2  2.0    0  0.00   46. 1000.    3 NAD-SFC NoSubs
 9  6  1 152 18   36.3  0.246  1.114  0.010 1361.  293.    -36.5  0.2470  0.52  0.29  2.10   51.0  15.0 299.2  2.0    0  0.00   51. 1001.    3 NAD-SFC NoSubs
 9  6  1 152 19   -2.2  0.091 -9.000 -9.000 -999.   90.     30.8  0.2720  0.52  0.51  1.00  328.0  15.0 298.8  2.0    0  0.00   52. 1001.    3 NAD-SFC NoSubs
 9  6  1 152 20  -42.7  0.420 -9.000 -9.000 -999.  654.    155.1  0.2160  0.52  1.00  4.60  277.0  15.0 296.2  2.0    0  0.00   55. 1002.    3 NAD-SFC NoSubs
 9  6  1 152 21  -43.3  0.420 -9.000 -9.000 -999.  653.    152.9  0.2160  0.52  1.00  4.60  270.0  15.0 292.2  2.0    0  0.00   63. 1002.    3 NAD-SFC NoSubs
 9  6  1 152 22  -41.3  0.398 -9.000 -9.000 -999.  603.    136.5  0.1750  0.52  1.00  4.60  266.0  15.0 290.6  2.0    0  0.00   69. 1003.    3 NAD-SFC NoSubs
 9  6  1 152 23  -33.9  0.325 -9.000 -9.000 -999.  449.     90.9  0.2160  0.52  1.00  3.60  274.0  15.0 289.6  2.0    0  0.00   73. 1003.    3 NAD-SFC NoSubs
 9  6  1 152 24  -28.0  0.278 -9.000 -9.000 -999.  354.     68.9  0.2160  0.52  1.00  3.10  284.0  15.0 288.8  2.0    0  0.00   77. 1003.    4 NAD-SFC NoSubs
 9  6  2 153  1  -21.8  0.231 -9.000 -9.000 -999.  267.     50.4  0.2160  0.52  1.00  2.60  291.0  15.0 288.2  2.0    0  0.00   78. 1003.    4 NAD-SFC NoSubs
 9  6  2 153  2   -6.8  0.129 -9.000 -9.000 -999.  116.     27.8  0.2160  0.52  1.00  1.50  298.0  15.0 288.2  2.0    0  0.00   77. 1004.    5 NAD-SFC NoSubs
 9  6  2 153  3   -7.9  0.140 -9.000 -9.000 -999.  125.     31.1  0.2930  0.52  1.00  1.50  330.0  15.0 288.1  2.0    0  0.00   77. 1004.    5 NAD-SFC NoSubs
 9  6  2 153  4   -7.9  0.140 -9.000 -9.000 -999.  125.     31.1  0.2930  0.52  1.00  1.50  332.0  15.0 288.0  2.0    0  0.00   78. 1005.    5 NAD-SFC NoSubs
 9  6  2 153  5   -7.9  0.140 -9.000 -9.000 -999.  125.     31.1  0.2930  0.52  1.00  1.50  335.0  15.0 287.9  2.0    0  0.00   78. 1005.    5 NAD-SFC NoSubs
 9  6  2 153  6   -1.2  0.150 -9.000 -9.000 -999.  140.    249.1  0.2930  0.52  0.46  1.50  330.0  15.0 287.8  2.0    0  0.00   79. 1006.    5 NAD-SFC NoSubs
 9  6  2 153  7   40.6  0.199  0.604  0.007  194.  213.    -17.3  0.2720  0.52  0.27  1.50  323.0  15.0 288.4  2.0    0  0.00   74. 1006.    4 NAD-SFC NoSubs
 9  6  2 153  8   84.5  0.108  0.942  0.007  354.   89.     -1.4  0.2720  0.52  0.22  0.50  312.0  15.0 289.8  2.0    0  0.00   69. 1006.    4 NAD-SFC NoSubs
 9  6  2 153  9  122.8 -9.000 -9.000 -9.000  535. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0 291.4  2.0    0  0.00   64. 1005.    4 NAD-SFC NoSubs
 9  6  2 153 10  154.9 -9.000 -9.000 -9.000  700. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 292.9  2.0    0  0.00   60. 1005.    3 NAD-SFC NoSubs
 9  6  2 153 11  176.2 -9.000 -9.000 -9.000  834. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 294.8  2.0    0  0.00   56. 1004.    3 NAD-SFC NoSubs
 9  6  2 153 12  186.3 -9.000 -9.000 -9.000  957. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 296.2  2.0    0  0.00   52. 1003.    3 NAD-SFC NoSubs
 9  6  2 153 13  186.1 -9.000 -9.000 -9.000 1087. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 297.6  2.0    0  0.00   47. 1002.    3 NAD-SFC NoSubs
 9  6  2 153 14  175.3  0.122  1.804  0.008 1199.  102.     -1.0  0.2930  0.52  0.19  0.50  331.0  15.0 298.9  2.0    0  0.00   43. 1002.    3 NAD-SFC NoSubs
 9  6  2 153 15  153.4  0.120  1.768  0.008 1289.   99.     -1.0  0.2930  0.52  0.19  0.50  356.0  15.0 299.8  2.0    0  0.00   39. 1001.    3 NAD-SFC NoSubs
 9  6  2 153 16  121.9  0.176  1.664  0.008 1352.  177.     -4.0  0.2940  0.52  0.20  1.00    2.0  15.0 300.2  2.0    0  0.00   38. 1001.    3 NAD-SFC NoSubs
 9  6  2 153 17   82.2  0.218  1.471  0.008 1384.  244.    -11.2  0.2940  0.52  0.22  1.50    7.0  15.0 300.2  2.0    0  0.00   38. 1001.    3 NAD-SFC NoSubs
 9  6  2 153 18   37.1  0.256  1.133  0.008 1398.  311.    -40.3  0.2940  0.52  0.29  2.10    4.0  15.0 300.1  2.0    0  0.00   44. 1001.    3 NAD-SFC NoSubs
 9  6  2 153 19  -16.7  0.429 -9.000 -9.000 -999.  674.    420.7  0.2160  0.52  0.51  4.60  293.0  15.0 298.6  2.0    0  0.00   49. 1001.    3 NAD-SFC NoSubs
 9  6  2 153 20  -47.9  0.468 -9.000 -9.000 -999.  767.    190.9  0.2160  0.52  1.00  5.10  284.0  15.0 294.2  2.0    0  0.00   60. 1002.    3 NAD-SFC NoSubs
 9  6  2 153 21  -43.3  0.420 -9.000 -9.000 -999.  656.    152.8  0.2160  0.52  1.00  4.60  275.0  15.0 292.0  2.0    0  0.00   63. 1002.    3 NAD-SFC NoSubs
 9  6  2 153 22  -43.6  0.420 -9.000 -9.000 -999.  653.    152.1  0.2160  0.52  1.00  4.60  281.0  15.0 290.6  2.0    0  0.00   67. 1003.    3 NAD-SFC NoSubs
 9  6  2 153 23  -29.0  0.278 -9.000 -9.000 -999.  366.     66.4  0.2160  0.52  1.00  3.10  285.0  15.0 289.6  2.0    0  0.00   69. 1003.    3 NAD-SFC NoSubs
 9  6  2 153 24   -7.9  0.137 -9.000 -9.000 -999.  138.     29.0  0.2720  0.52  1.00  1.50  324.0  15.0 289.1  2.0    0  0.00   68. 1004.    3 NAD-SFC NoSubs
 9  6  3 154  1  -16.5  0.200 -9.000 -9.000 -999.  215.     43.5  0.2940  0.52  1.00  2.10   18.0  15.0 288.8  2.0    0  0.00   70. 1004.    3 NAD-SFC NoSubs
 9  6  3 154  2   -8.2  0.140 -9.000 -9.000 -999.  126.     29.7  0.2930  0.52  1.00  1.50  347.0  15.0 288.1  2.0    0  0.00   71. 1004.    3 NAD-SFC NoSubs
 9  6  3 154  3  -16.5  0.200 -9.000 -9.000 -999.  214.     43.4  0.2930  0.52  1.00  2.10  333.0  15.0 287.4  2.0    0  0.00   74. 1004.    3 NAD-SFC NoSubs
 9  6  3 154  4  -24.8  0.246 -9.000 -9.000 -999.  293.     53.8  0.2720  0.52  1.00  2.60  312.0  15.0 286.9  2.0    0  0.00   75. 1004.    3 NAD-SFC NoSubs
 9  6  3 154  5  -15.9  0.195 -9.000 -9.000 -999.  208.     42.0  0.2720  0.52  1.00  2.10  325.0  15.0 286.8  2.0    0  0.00   75. 1004.    3 NAD-SFC NoSubs
 9  6  3 154  6   -4.5  0.146 -9.000 -9.000 -999.  134.     61.6  0.2930  0.52  0.45  1.50  334.0  15.0 286.8  2.0    0  0.00   74. 1005.    2 NAD-SFC NoSubs
 9  6  3 154  7   39.2  0.198  0.534  0.008  139.  211.    -17.7  0.2720  0.52  0.27  1.50  323.0  15.0 287.9  2.0    0  0.00   68. 1005.    2 NAD-SFC NoSubs
 9  6  3 154  8   84.4  0.218  0.841  0.008  253.  245.    -11.0  0.2930  0.52  0.22  1.50  333.0  15.0 289.2  2.0    0  0.00   62. 1005.    2 NAD-SFC NoSubs
 9  6  3 154  9  123.8  0.114  1.122  0.007  409.   98.     -1.1  0.2720  0.52  0.20  0.50  325.0  15.0 291.0  2.0    0  0.00   56. 1004.    2 NAD-SFC NoSubs
 9  6  3 154 10  154.9 -9.000 -9.000 -9.000  617. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 292.8  2.0    0  0.00   50. 1004.    2 NAD-SFC NoSubs
 9  6  3 154 11  176.4 -9.000 -9.000 -9.000  776. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 294.8  2.0    0  0.00   44. 1004.    2 NAD-SFC NoSubs
 9  6  3 154 12  186.9 -9.000 -9.000 -9.000  913. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 296.8  2.0    0  0.00   38. 1003.    2 NAD-SFC NoSubs
 9  6  3 154 13  187.0  0.118  1.775  0.005 1070.   98.     -1.0  0.2470  0.52  0.19  0.50   58.0  15.0 298.9  2.0    0  0.00   32. 1002.    2 NAD-SFC NoSubs
 9  6  3 154 14  176.4  0.113  1.823  0.006 1228.   91.     -1.0  0.2090  0.52  0.19  0.50   75.0  15.0 300.8  2.0    0  0.00   27. 1001.    2 NAD-SFC NoSubs
 9  6  3 154 15  154.6  0.166  1.800  0.006 1348.  163.     -2.7  0.1970  0.52  0.19  1.00  135.0  15.0 302.0  2.0    0  0.00   23. 1000.    2 NAD-SFC NoSubs
 9  6  3 154 16  123.0  0.303  1.694  0.006 1411.  400.    -20.1  0.1900  0.52  0.20  2.60  195.0  15.0 302.8  2.0    0  0.00   21.  999.    2 NAD-SFC NoSubs
 9  6  3 154 17   82.4  0.377  1.494  0.006 1447.  556.    -58.1  0.1950  0.52  0.22  3.60  216.0  15.0 301.4  2.0    0  0.00   37. 1000.    2 NAD-SFC NoSubs
 9  6  3 154 18   36.0  0.393  1.137  0.006 1458.  591.   -150.6  0.1750  0.52  0.29  4.10  241.0  15.0 299.2  2.0    0  0.00   45. 1000.    2 NAD-SFC NoSubs
 9  6  3 154 19  -19.7  0.404 -9.000 -9.000 -999.  617.    299.6  0.1750  0.52  0.50  4.60  268.0  15.0 296.5  2.0    0  0.00   50. 1001.    2 NAD-SFC NoSubs
 9  6  3 154 20  -39.2  0.372 -9.000 -9.000 -999.  547.    117.8  0.2160  0.52  1.00  4.10  289.0  15.0 293.8  2.0    0  0.00   60. 1002.    2 NAD-SFC NoSubs
 9  6  3 154 21  -36.7  0.347 -9.000 -9.000 -999.  490.    101.4  0.2720  0.52  1.00  3.60  306.0  15.0 291.9  2.0    0  0.00   66. 1003.    2 NAD-SFC NoSubs
 9  6  3 154 22  -37.7  0.354 -9.000 -9.000 -999.  506.    105.5  0.2930  0.52  1.00  3.60  335.0  15.0 290.8  2.0    0  0.00   70. 1003.    2 NAD-SFC NoSubs
 9  6  3 154 23  -31.6  0.303 -9.000 -9.000 -999.  402.     79.0  0.2930  0.52  1.00  3.10  348.0  15.0 289.8  2.0    0  0.00   74. 1004.    3 NAD-SFC NoSubs
 9  6  3 154 24  -37.1  0.354 -9.000 -9.000 -999.  506.    107.6  0.2930  0.52  1.00  3.60  337.0  15.0 288.8  2.0    0  0.00   78. 1004.    3 NAD-SFC NoSubs
 9  6  4 155  1  -41.7  0.397 -9.000 -9.000 -999.  600.    134.5  0.2720  0.52  1.00  4.10  319.0  15.0 287.6  2.0    0  0.00   81. 1004.    3 NAD-SFC NoSubs
 9  6  4 155  2  -41.8  0.397 -9.000 -9.000 -999.  600.    134.0  0.2720  0.52  1.00  4.10  309.0  15.0 286.6  2.0    0  0.00   84. 1004.    3 NAD-SFC NoSubs
 9  6  4 155  3  -36.6  0.347 -9.000 -9.000 -999.  492.    102.0  0.2720  0.52  1.00  3.60  316.0  15.0 285.9  2.0    0  0.00   86. 1005.    3 NAD-SFC NoSubs
 9  6  4 155  4  -36.7  0.347 -9.000 -9.000 -999.  490.    101.8  0.2720  0.52  1.00  3.60  327.0  15.0 285.4  2.0    0  0.00   88. 1005.    3 NAD-SFC NoSubs
 9  6  4 155  5  -31.4  0.296 -9.000 -9.000 -999.  389.     74.3  0.2720  0.52  1.00  3.10  320.0  15.0 285.0  2.0    0  0.00   89. 1005.    3 NAD-SFC NoSubs
 9  6  4 155  6   -6.1  0.387 -9.000 -9.000 -999.  578.    849.5  0.2160  0.52  0.45  4.10  289.0  15.0 285.6  2.0    0  0.00   85. 1006.    4 NAD-SFC NoSubs
 9  6  4 155  7   40.6  0.370  0.614  0.006  204.  540.   -111.5  0.2160  0.52  0.27  3.60  286.0  15.0 287.1  2.0    0  0.00   75. 1006.    4 NAD-SFC NoSubs
 9  6  4 155  8   85.0  0.215  0.891  0.008  299.  256.    -10.5  0.2720  0.52  0.22  1.50  300.0  15.0 288.8  2.0    0  0.00   67. 1006.    3 NAD-SFC NoSubs
 9  6  4 155  9  123.9 -9.000 -9.000 -9.000  409. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0 290.2  2.0    0  0.00   61. 1006.    3 NAD-SFC NoSubs
 9  6  4 155 10  154.9 -9.000 -9.000 -9.000  609. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 292.2  2.0    0  0.00   54. 1005.    3 NAD-SFC NoSubs
 9  6  4 155 11  176.0 -9.000 -9.000 -9.000  773. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 293.8  2.0    0  0.00   49. 1005.    3 NAD-SFC NoSubs
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 9  6  4 155 12  186.1 -9.000 -9.000 -9.000  916. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 295.2  2.0    0  0.00  43. 1004.     3 NAD-SFC NoSubs
 9  6  4 155 13  185.9  0.121  1.775  0.005 1078.  101.     -1.0  0.2720  0.52  0.19  0.50  310.0  15.0 296.5  2.0    0  0.00  39. 1003.     3 NAD-SFC NoSubs
 9  6  4 155 14  175.1  0.120  1.820  0.005 1233.  100.     -1.0  0.2720  0.52  0.19  0.50  325.0  15.0 297.5  2.0    0  0.00  35. 1002.     3 NAD-SFC NoSubs
 9  6  4 155 15  153.2  0.178  1.796  0.005 1352.  180.     -3.3  0.2720  0.52  0.19  1.00  322.0  15.0 298.2  2.0    0  0.00  33. 1001.     3 NAD-SFC NoSubs
 9  6  4 155 16  121.7  0.173  1.692  0.005 1424.  173.     -3.8  0.2720  0.52  0.20  1.00  329.0  15.0 298.5  2.0    0  0.00  35. 1001.     3 NAD-SFC NoSubs
 9  6  4 155 17   82.2  0.214  1.502  0.006 1471.  238.    -10.7  0.2720  0.52  0.22  1.50  322.0  15.0 298.6  2.0    0  0.00  34. 1000.     3 NAD-SFC NoSubs
 9  6  4 155 18   37.0  0.282  1.156  0.006 1489.  359.    -54.1  0.2160  0.52  0.29  2.60  293.0  15.0 298.0  2.0    0  0.00  42. 1001.     3 NAD-SFC NoSubs
 9  6  4 155 19  -21.5  0.507 -9.000 -9.000 -999.  866.    541.8  0.1750  0.52  0.50  5.70  257.0  15.0 294.6  2.0    0  0.00  57. 1002.     3 NAD-SFC NoSubs
 9  6  4 155 20  -51.4  0.497 -9.000 -9.000 -999.  842.    214.0  0.1750  0.52  1.00  5.70  260.0  15.0 291.5  2.0    0  0.00  69. 1002.     3 NAD-SFC NoSubs
 9  6  4 155 21  -51.8  0.497 -9.000 -9.000 -999.  842.    212.6  0.1750  0.52  1.00  5.70  259.0  15.0 289.8  2.0    0  0.00  75. 1003.     3 NAD-SFC NoSubs
 9  6  4 155 22  -41.6  0.398 -9.000 -9.000 -999.  610.    135.4  0.1750  0.52  1.00  4.60  265.0  15.0 288.4  2.0    0  0.00  79. 1004.     3 NAD-SFC NoSubs
 9  6  4 155 23  -13.1  0.173 -9.000 -9.000 -999.  230.     35.6  0.1750  0.52  1.00  2.10  252.0  15.0 287.8  2.0    0  0.25  81. 1005.     3 NAD-SFC NoSubs
 9  6  4 155 24   -6.8  0.125 -9.000 -9.000 -999.  108.     25.6  0.1900  0.52  1.00  1.50  205.0  15.0 287.8  2.0    0  0.00  81. 1005.     3 NAD-SFC NoSubs
 9  6  5 156  1  -13.5  0.177 -9.000 -9.000 -999.  178.     36.7  0.1900  0.52  1.00  2.10  199.0  15.0 287.6  2.0    0  0.00  80. 1005.     3 NAD-SFC NoSubs
 9  6  5 156  2   -6.7  0.125 -9.000 -9.000 -999.  106.     26.0  0.1900  0.52  1.00  1.50  199.0  15.0 287.2  2.0    0  0.00  80. 1006.     4 NAD-SFC NoSubs
 9  6  5 156  3   -6.5  0.125 -9.000 -9.000 -999.  105.     26.6  0.1900  0.52  1.00  1.50  198.0  15.0 287.0  2.0    0  0.00  81. 1006.     5 NAD-SFC NoSubs
 9  6  5 156  4  -10.0  0.181 -9.000 -9.000 -999.  185.     53.4  0.1900  0.52  1.00  2.10  207.0  15.0 286.5  2.0    0  0.00  82. 1006.    10 NAD-SFC NoSubs
 9  6  5 156  5  -12.7  0.229 -9.000 -9.000 -999.  262.     84.8  0.1950  0.52  1.00  2.60  224.0  15.0 286.2  2.0    0  0.00  83. 1006.    10 NAD-SFC NoSubs
 9  6  5 156  6   -5.9  0.185 -9.000 -9.000 -999.  192.     97.5  0.1950  0.52  0.45  2.10  218.0  15.0 286.2  2.0    0  0.00  83. 1007.    10 NAD-SFC NoSubs
 9  6  5 156  7    7.3  0.160  0.263  0.005   89.  153.    -49.8  0.1950  0.52  0.27  1.50  215.0  15.0 286.8  2.0    0  0.00  81. 1007.    10 NAD-SFC NoSubs
 9  6  5 156  8   18.8  0.126  0.556  0.005  328.  108.     -9.6  0.1750  0.52  0.21  1.00  252.0  15.0 287.8  2.0    0  0.00  71. 1007.    10 NAD-SFC NoSubs
 9  6  5 156  9   28.8 -9.000 -9.000 -9.000  501. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0 288.8  2.0    0  0.00  64. 1007.    10 NAD-SFC NoSubs
 9  6  5 156 10   36.7  0.141  0.880  0.005  667.  127.     -6.9  0.2090  0.52  0.19  1.00   74.0  15.0 289.4  2.0    0  0.00  62. 1006.    10 NAD-SFC NoSubs
 9  6  5 156 11  117.0  0.111  1.384  0.005  813.   88.     -1.0  0.2470  0.52  0.19  0.50   54.0  15.0 290.5  2.0    0  0.00  58. 1006.     8 NAD-SFC NoSubs
 9  6  5 156 12  176.5 -9.000 -9.000 -9.000  995. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 292.1  2.0    0  0.00  52. 1005.     5 NAD-SFC NoSubs
 9  6  5 156 13  182.3  0.123  1.801  0.006 1149.  103.     -1.0  0.2930  0.52  0.19  0.50  345.0  15.0 293.2  2.0    0  0.00  47. 1004.     4 NAD-SFC NoSubs
 9  6  5 156 14  171.6  0.183  1.829  0.007 1279.  188.     -3.2  0.2930  0.52  0.19  1.00  345.0  15.0 294.2  2.0    0  0.00  43. 1004.     4 NAD-SFC NoSubs
 9  6  5 156 15  152.1  0.233  1.796  0.007 1367.  270.     -7.5  0.2930  0.52  0.19  1.50  344.0  15.0 294.8  2.0    0  0.00  41. 1004.     3 NAD-SFC NoSubs
 9  6  5 156 16  120.7  0.285  1.684  0.007 1417.  365.    -17.2  0.2930  0.52  0.20  2.10  345.0  15.0 295.2  2.0    0  0.00  39. 1003.     3 NAD-SFC NoSubs
 9  6  5 156 17   81.2  0.320  1.487  0.007 1450.  434.    -36.1  0.2930  0.52  0.22  2.60  341.0  15.0 295.2  2.0    0  0.00  39. 1003.     3 NAD-SFC NoSubs
 9  6  5 156 18   36.1  0.255  1.139  0.007 1463.  311.    -41.1  0.2930  0.52  0.29  2.10  355.0  15.0 294.8  2.0    0  0.00  47. 1004.     3 NAD-SFC NoSubs
 9  6  5 156 19  -12.8  0.309 -9.000 -9.000 -999.  412.    206.1  0.2930  0.52  0.50  3.10  349.0  15.0 294.0  2.0    0  0.00  51. 1004.     3 NAD-SFC NoSubs
 9  6  5 156 20  -32.4  0.326 -9.000 -9.000 -999.  446.     95.6  0.2160  0.52  1.00  3.60  299.0  15.0 292.6  2.0    0  0.00  57. 1004.     4 NAD-SFC NoSubs
 9  6  5 156 21  -44.5  0.443 -9.000 -9.000 -999.  708.    175.5  0.1750  0.52  1.00  5.10  269.0  15.0 290.0  2.0    0  0.00  72. 1005.     4 NAD-SFC NoSubs
 9  6  5 156 22  -53.1  0.525 -9.000 -9.000 -999.  913.    244.8  0.2160  0.52  1.00  5.70  279.0  15.0 288.0  2.0    0  0.00  80. 1005.     4 NAD-SFC NoSubs
 9  6  5 156 23  -45.2  0.468 -9.000 -9.000 -999.  773.    203.8  0.2160  0.52  1.00  5.10  273.0  15.0 286.9  2.0    0  0.00  84. 1005.     5 NAD-SFC NoSubs
 9  6  5 156 24  -36.1  0.373 -9.000 -9.000 -999.  554.    129.0  0.2160  0.52  1.00  4.10  270.0  15.0 286.1  2.0    0  0.00  86. 1005.     5 NAD-SFC NoSubs
 9  6  6 157  1  -31.6  0.326 -9.000 -9.000 -999.  448.     98.2  0.2160  0.52  1.00  3.60  275.0  15.0 285.6  2.0    0  0.00  88. 1005.     5 NAD-SFC NoSubs
 9  6  6 157  2  -19.1  0.219 -9.000 -9.000 -999.  253.     49.6  0.1750  0.52  1.00  2.60  259.0  15.0 285.2  2.0    0  0.00  89. 1005.     6 NAD-SFC NoSubs
 9  6  6 157  3   -6.1  0.125 -9.000 -9.000 -999.  111.     28.8  0.1950  0.52  1.00  1.50  239.0  15.0 285.1  2.0    0  0.00  91. 1006.     7 NAD-SFC NoSubs
 9  6  6 157  4   -2.8  0.088 -9.000 -9.000 -999.   63.     21.6  0.1750  0.52  1.00  1.00  240.0  15.0 284.9  2.0    0  0.00  91. 1006.     7 NAD-SFC NoSubs
 9  6  6 157  5   -6.4  0.129 -9.000 -9.000 -999.  111.     29.8  0.2160  0.52  1.00  1.50  280.0  15.0 284.8  2.0    0  0.25  91. 1006.     7 NAD-SFC NoSubs
 9  6  6 157  6   -2.3  0.342 -9.000 -9.000 -999.  481.   1569.7  0.2160  0.52  0.45  3.60  285.0  15.0 285.0  2.0    0  0.25  88. 1007.     8 NAD-SFC NoSubs
 9  6  6 157  7    7.1  0.302  0.284  0.005  115.  400.    -350.7  0.2160  0.52  0.27  3.10  286.0  15.0 285.5  2.0    0  0.00  84. 1007.    10 NAD-SFC NoSubs
 9  6  6 157  8   18.4  0.284  0.448  0.005  174.  363.    -111.1  0.2720  0.52  0.21  2.60  315.0  15.0 286.0  2.0    0  0.00  79. 1007.    10 NAD-SFC NoSubs
 9  6  6 157  9   82.5  0.214  0.969  0.005  396.  239.     -10.7  0.2720  0.52  0.20  1.50  313.0  15.0 286.5  2.0    0  0.00  76. 1007.     8 NAD-SFC NoSubs
 9  6  6 157 10  137.6 -9.000 -9.000 -9.000  660. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 287.2  2.0    0  0.00  74. 1007.     6 NAD-SFC NoSubs
 9  6  6 157 11  166.5 -9.000 -9.000 -9.000  800. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 288.8  2.0    0  0.00  68. 1006.     5 NAD-SFC NoSubs
 9  6  6 157 12  176.0 -9.000 -9.000 -9.000  926. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 290.2  2.0    0  0.00  62. 1005.     5 NAD-SFC NoSubs
 9  6  6 157 13  175.9 -9.000 -9.000 -9.000 1053. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 291.9  2.0    0  0.00  54. 1004.     5 NAD-SFC NoSubs
 9  6  6 157 14  171.4 -9.000 -9.000 -9.000 1172. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 293.1  2.0    0  0.00  48. 1004.     4 NAD-SFC NoSubs
 9  6  6 157 15  150.1  0.119  1.745  0.005 1268.   99.     -1.0  0.2940  0.52  0.19  0.50   26.0  15.0 293.9  2.0    0  0.00  45. 1003.     4 NAD-SFC NoSubs
 9  6  6 157 16  120.7  0.227  1.652  0.005 1340.  260.     -8.7  0.2940  0.52  0.20  1.50   28.0  15.0 294.4  2.0    0  0.00  43. 1003.     3 NAD-SFC NoSubs
 9  6  6 157 17   81.2  0.308  1.477  0.005 1419.  411.    -32.2  0.2470  0.52  0.22  2.60   40.0  15.0 294.4  2.0    0  0.00  44. 1002.     3 NAD-SFC NoSubs
 9  6  6 157 18   36.3  0.290  1.137  0.005 1449.  374.    -60.0  0.2470  0.52  0.29  2.60   46.0  15.0 294.0  2.0    0  0.00  53. 1003.     3 NAD-SFC NoSubs
 9  6  6 157 19  -11.5  0.281 -9.000 -9.000 -999.  358.    173.4  0.2090  0.52  0.49  3.10   63.0  15.0 293.2  2.0    0  0.00  57. 1003.     3 NAD-SFC NoSubs
 9  6  6 157 20   -3.6  0.097 -9.000 -9.000 -999.  113.     22.9  0.2470  0.52  1.00  1.00   38.0  15.0 292.2  2.0    0  0.00  58. 1004.     4 NAD-SFC NoSubs
 9  6  6 157 21  -33.6  0.354 -9.000 -9.000 -999.  505.    117.7  0.1750  0.52  1.00  4.10  265.0  15.0 290.8  2.0    0  0.00  65. 1004.     5 NAD-SFC NoSubs
 9  6  6 157 22  -37.6  0.373 -9.000 -9.000 -999.  546.    123.4  0.2160  0.52  1.00  4.10  274.0  15.0 288.2  2.0    0  0.00  78. 1005.     4 NAD-SFC NoSubs
 9  6  6 157 23  -35.8  0.353 -9.000 -9.000 -999.  504.    110.2  0.1750  0.52  1.00  4.10  260.0  15.0 286.9  2.0    0  0.00  84. 1005.     4 NAD-SFC NoSubs
 9  6  6 157 24  -26.8  0.264 -9.000 -9.000 -999.  329.     61.2  0.1750  0.52  1.00  3.10  259.0  15.0 286.2  2.0    0  0.00  86. 1005.     4 NAD-SFC NoSubs
 9  6  7 158  1  -25.6  0.264 -9.000 -9.000 -999.  325.     64.4  0.1750  0.52  1.00  3.10  249.0  15.0 285.8  2.0    0  0.00  88. 1005.     5 NAD-SFC NoSubs
 9  6  7 158  2  -24.0  0.264 -9.000 -9.000 -999.  326.     68.9  0.1750  0.52  1.00  3.10  248.0  15.0 285.2  2.0    0  0.00  89. 1005.     6 NAD-SFC NoSubs
 9  6  7 158  3  -12.4  0.222 -9.000 -9.000 -999.  252.     79.9  0.1750  0.52  1.00  2.60  259.0  15.0 284.9  2.0    0  0.00  90. 1005.    10 NAD-SFC NoSubs
 9  6  7 158  4   -4.8  0.123 -9.000 -9.000 -999.  108.     34.8  0.1750  0.52  1.00  1.50  263.0  15.0 284.6  2.0    0  0.00  90. 1006.    10 NAD-SFC NoSubs
 9  6  7 158  5   -2.2  0.083 -9.000 -9.000 -999.   57.     23.3  0.1750  0.52  1.00  1.00  265.0  15.0 284.8  2.0    0  0.00  89. 1006.    10 NAD-SFC NoSubs
 9  6  7 158  6   -0.4  0.141 -9.000 -9.000 -999.  127.    596.0  0.2160  0.52  0.45  1.50  294.0  15.0 285.1  2.0    0  0.00  86. 1006.     6 NAD-SFC NoSubs
 9  6  7 158  7   40.1  0.098  0.588  0.006  182.   74.     -2.1  0.2720  0.52  0.27  0.50  309.0  15.0 286.4  2.0    0  0.00  79. 1006.     5 NAD-SFC NoSubs
 9  6  7 158  8   84.3  0.100  0.977  0.006  397.   76.     -1.1  0.1900  0.52  0.21  0.50  188.0  15.0 287.1  2.0    0  0.00  77. 1006.     4 NAD-SFC NoSubs
 9  6  7 158  9  122.1  0.159  1.231  0.005  549.  151.     -2.9  0.1810  0.52  0.20  1.00  173.0  15.0 288.0  2.0    0  0.00  73. 1006.     4 NAD-SFC NoSubs
 9  6  7 158 10  154.4 -9.000 -9.000 -9.000  709. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 290.0  2.0    0  0.00  66. 1005.     3 NAD-SFC NoSubs
 9  6  7 158 11  175.6 -9.000 -9.000 -9.000  887. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 291.9  2.0    0  0.00  59. 1004.     3 NAD-SFC NoSubs
 9  6  7 158 12  185.8 -9.000 -9.000 -9.000 1095. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 293.5  2.0    0  0.00  54. 1003.     3 NAD-SFC NoSubs
 9  6  7 158 13  185.6 -9.000 -9.000 -9.000 1315. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 294.8  2.0    0  0.00  50. 1002.     3 NAD-SFC NoSubs
 9  6  7 158 14  174.9  0.122  1.902  0.008 1408.  102.     -1.0  0.2940  0.52  0.19  0.50   26.0  15.0 295.8  2.0    0  0.00  47. 1001.     3 NAD-SFC NoSubs
 9  6  7 158 15  153.1  0.181  1.848  0.009 1475.  185.     -3.5  0.2940  0.52  0.19  1.00   23.0  15.0 296.5  2.0    0  0.00  46. 1001.     3 NAD-SFC NoSubs
 9  6  7 158 16  121.9  0.286  1.733  0.009 1526.  367.    -17.1  0.2940  0.52  0.20  2.10   23.0  15.0 297.0  2.0    0  0.00  45. 1000.     3 NAD-SFC NoSubs
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 9  6  7 158 17   82.6  0.321  1.533  0.009 1559.  436.    -35.6  0.2940  0.52  0.22   2.60   22.0  15.0 297.1  2.0    0  0.00   46. 1000.     3 NAD-SFC NoSubs
 9  6  7 158 18   37.7  0.256  1.185  0.009 1574.  313.    -39.8  0.2940  0.52  0.29   2.10   29.0  15.0 296.9  2.0    0  0.00   52. 1000.     3 NAD-SFC NoSubs
 9  6  7 158 19   -6.5  0.197 -9.000 -9.000 -999.  211.    104.4  0.2470  0.52  0.49   2.10   43.0  15.0 296.4  2.0    0  0.00   54. 1000.     3 NAD-SFC NoSubs
 9  6  7 158 20  -20.1  0.218 -9.000 -9.000 -999.  245.     46.4  0.1750  0.52  1.00   2.60  256.0  15.0 295.4  2.0    0  0.00   57. 1001.     3 NAD-SFC NoSubs
 9  6  7 158 21  -52.3  0.526 -9.000 -9.000 -999.  914.    247.8  0.2160  0.52  1.00   5.70  272.0  15.0 291.4  2.0    0  0.00   70. 1002.     4 NAD-SFC NoSubs
 9  6  7 158 22  -46.1  0.443 -9.000 -9.000 -999.  714.    168.6  0.1750  0.52  1.00   5.10  268.0  15.0 289.6  2.0    0  0.00   74. 1002.     3 NAD-SFC NoSubs
 9  6  7 158 23  -37.5  0.373 -9.000 -9.000 -999.  550.    123.6  0.2160  0.52  1.00   4.10  271.0  15.0 288.8  2.0    0  0.00   78. 1002.     4 NAD-SFC NoSubs
 9  6  7 158 24  -26.5  0.264 -9.000 -9.000 -999.  332.     61.6  0.1750  0.52  1.00   3.10  265.0  15.0 288.1  2.0    0  0.00   82. 1002.     4 NAD-SFC NoSubs
 9  6  8 159  1   -6.4  0.122 -9.000 -9.000 -999.  119.     25.3  0.1750  0.52  1.00   1.50  250.0  15.0 287.6  2.0    0  0.00   84. 1002.     4 NAD-SFC NoSubs
 9  6  8 159  2   -1.3  0.077 -9.000 -9.000 -999.   51.     30.1  0.1900  0.52  1.00   0.50  195.0  15.0 287.2  2.0    0  0.00   85. 1003.     5 NAD-SFC NoSubs
 9  6  8 159  3   -1.3  0.077 -9.000 -9.000 -999.   51.     30.1  0.1900  0.52  1.00   0.50  193.0  15.0 286.8  2.0    0  0.00   87. 1003.     5 NAD-SFC NoSubs
 9  6  8 159  4   -3.0  0.090 -9.000 -9.000 -999.   64.     21.5  0.1750  0.52  1.00   1.00  246.0  15.0 286.6  2.0    0  0.00   87. 1003.     6 NAD-SFC NoSubs
 9  6  8 159  5   -3.0  0.090 -9.000 -9.000 -999.   64.     21.5  0.1750  0.52  1.00   1.00  268.0  15.0 286.2  2.0    0  0.00   88. 1003.     6 NAD-SFC NoSubs
 9  6  8 159  6   -0.5  0.091 -9.000 -9.000 -999.   66.    139.5  0.2160  0.52  0.45   1.00  296.0  15.0 286.5  2.0    0  0.00   87. 1003.     5 NAD-SFC NoSubs
 9  6  8 159  7   40.5  0.151  0.611  0.006  201.  141.     -7.6  0.2720  0.52  0.27   1.00  307.0  15.0 288.1  2.0    0  0.00   78. 1003.     5 NAD-SFC NoSubs
 9  6  8 159  8   84.9 -9.000 -9.000 -9.000  402. -999. -99999.0  0.2235  0.52  0.21   0.00    0.0  15.0 289.5  2.0    0  0.00   73. 1003.     4 NAD-SFC NoSubs
 9  6  8 159  9  122.9 -9.000 -9.000 -9.000  559. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0 290.8  2.0    0  0.00   69. 1003.     4 NAD-SFC NoSubs
 9  6  8 159 10  153.1 -9.000 -9.000 -9.000  706. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0 292.2  2.0    0  0.00   64. 1002.     4 NAD-SFC NoSubs
 9  6  8 159 11  173.9 -9.000 -9.000 -9.000  837. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0 293.9  2.0    0  0.00   59. 1002.     4 NAD-SFC NoSubs
 9  6  8 159 12  183.9 -9.000 -9.000 -9.000  959. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0 295.4  2.0    0  0.00   55. 1001.     4 NAD-SFC NoSubs
 9  6  8 159 13  183.9 -9.000 -9.000 -9.000 1098. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0 296.8  2.0    0  0.00   51. 1000.     4 NAD-SFC NoSubs
 9  6  8 159 14  173.4 -9.000 -9.000 -9.000 1219. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0 297.8  2.0    0  0.00   48.  999.     4 NAD-SFC NoSubs
 9  6  8 159 15  152.2  0.120  1.777  0.006 1316.   99.     -1.0  0.2940  0.52  0.19   0.50   13.0  15.0 298.4  2.0    0  0.00   46.  999.     4 NAD-SFC NoSubs
 9  6  8 159 16  121.6  0.176  1.678  0.006 1385.  177.     -4.0  0.2940  0.52  0.20   1.00    9.0  15.0 298.8  2.0    0  0.00   45.  998.     4 NAD-SFC NoSubs
 9  6  8 159 17   83.2  0.218  1.494  0.007 1429.  245.    -11.1  0.2940  0.52  0.22   1.50    4.0  15.0 298.9  2.0    0  0.00   45.  998.     4 NAD-SFC NoSubs
 9  6  8 159 18   39.2  0.298  1.168  0.007 1448.  390.    -59.9  0.2720  0.52  0.28   2.60  304.0  15.0 298.6  2.0    0  0.00   50.  999.     4 NAD-SFC NoSubs
 9  6  8 159 19  -12.5  0.481 -9.000 -9.000 -999.  800.    792.6  0.2160  0.52  0.49   5.10  273.0  15.0 295.0  2.0    0  0.00   62. 1000.     4 NAD-SFC NoSubs
 9  6  8 159 20  -49.5  0.498 -9.000 -9.000 -999.  843.    222.7  0.1750  0.52  1.00   5.70  268.0  15.0 291.8  2.0    0  0.00   65. 1001.     4 NAD-SFC NoSubs
 9  6  8 159 21  -39.8  0.398 -9.000 -9.000 -999.  611.    141.6  0.1750  0.52  1.00   4.60  259.0  15.0 290.0  2.0    0  0.00   71. 1001.     4 NAD-SFC NoSubs
 9  6  8 159 22  -35.5  0.353 -9.000 -9.000 -999.  506.    110.9  0.1750  0.52  1.00   4.10  260.0  15.0 288.8  2.0    0  0.00   74. 1001.     4 NAD-SFC NoSubs
 9  6  8 159 23  -25.3  0.264 -9.000 -9.000 -999.  330.     65.0  0.1750  0.52  1.00   3.10  269.0  15.0 288.0  2.0    0  0.00   76. 1002.     5 NAD-SFC NoSubs
 9  6  8 159 24   -3.6  0.098 -9.000 -9.000 -999.  104.     23.4  0.2720  0.52  1.00   1.00  307.0  15.0 287.5  2.0    0  0.00   77. 1002.     5 NAD-SFC NoSubs
 9  6  9 160  1   -1.4  0.079 -9.000 -9.000 -999.   53.     30.4  0.2940  0.52  1.00   0.50   10.0  15.0 287.2  2.0    0  0.00   78. 1002.     6 NAD-SFC NoSubs
 9  6  9 160  2   -3.2  0.093 -9.000 -9.000 -999.   68.     22.4  0.2160  0.52  1.00   1.00  280.0  15.0 286.8  2.0    0  0.00   79. 1002.     6 NAD-SFC NoSubs
 9  6  9 160  3   -3.2  0.093 -9.000 -9.000 -999.   68.     22.4  0.2160  0.52  1.00   1.00  286.0  15.0 286.2  2.0    0  0.00   80. 1002.     6 NAD-SFC NoSubs
 9  6  9 160  4   -3.7  0.099 -9.000 -9.000 -999.   74.     23.4  0.2720  0.52  1.00   1.00  307.0  15.0 285.8  2.0    0  0.00   82. 1002.     5 NAD-SFC NoSubs
 9  6  9 160  5   -3.4  0.094 -9.000 -9.000 -999.   70.     22.4  0.2160  0.52  1.00   1.00  290.0  15.0 285.5  2.0    0  0.00   83. 1002.     5 NAD-SFC NoSubs
 9  6  9 160  6   -1.2  0.197 -9.000 -9.000 -999.  210.    561.6  0.2160  0.52  0.45   2.10  287.0  15.0 285.8  2.0    0  0.00   81. 1003.     5 NAD-SFC NoSubs
 9  6  9 160  7   40.4  0.199  0.582  0.007  174.  212.    -17.3  0.2720  0.52  0.27   1.50  305.0  15.0 287.4  2.0    0  0.00   74. 1003.     5 NAD-SFC NoSubs
 9  6  9 160  8   82.5 -9.000 -9.000 -9.000  307. -999. -99999.0  0.2235  0.52  0.21   0.00    0.0  15.0 289.0  2.0    0  0.00   69. 1003.     5 NAD-SFC NoSubs
 9  6  9 160  9  122.8 -9.000 -9.000 -9.000  508. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0 290.4  2.0    0  0.00   64. 1003.     4 NAD-SFC NoSubs
 9  6  9 160 10  153.1 -9.000 -9.000 -9.000  715. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0 292.2  2.0    0  0.00   59. 1002.     4 NAD-SFC NoSubs
 9  6  9 160 11  176.3 -9.000 -9.000 -9.000  847. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0 293.8  2.0    0  0.00   55. 1001.     3 NAD-SFC NoSubs
 9  6  9 160 12  186.6 -9.000 -9.000 -9.000  969. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0 295.2  2.0    0  0.00   51. 1001.     3 NAD-SFC NoSubs
 9  6  9 160 13  186.5 -9.000 -9.000 -9.000 1069. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0 296.5  2.0    0  0.00   48. 1000.     3 NAD-SFC NoSubs
 9  6  9 160 14  175.9  0.122  1.786  0.008 1156.  102.     -1.0  0.2940  0.52  0.19   0.50    4.0  15.0 297.6  2.0    0  0.00   45.  999.     3 NAD-SFC NoSubs
 9  6  9 160 15  154.2 -9.000 -9.000 -9.000 1227. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0 298.2  2.0    0  0.00   43.  999.     3 NAD-SFC NoSubs
 9  6  9 160 16  121.7  0.326  1.634  0.008 1280.  447.    -25.4  0.2720  0.52  0.20   2.60  321.0  15.0 298.5  2.0    0  0.00   44.  999.     4 NAD-SFC NoSubs
 9  6  9 160 17   83.2  0.429  1.452  0.008 1314.  674.    -84.4  0.2160  0.52  0.22   4.10  299.0  15.0 298.2  2.0    0  0.00   46.  999.     4 NAD-SFC NoSubs
 9  6  9 160 18   39.0  0.413  1.131  0.008 1326.  636.   -160.7  0.2160  0.52  0.28   4.10  283.0  15.0 297.1  2.0    0  0.00   57. 1000.     4 NAD-SFC NoSubs
 9  6  9 160 19   -8.4  0.458 -9.000 -9.000 -999.  744.   1025.7  0.1750  0.52  0.49   5.10  269.0  15.0 294.2  2.0    0  0.00   66. 1001.     5 NAD-SFC NoSubs
 9  6  9 160 20  -54.3  0.574 -9.000 -9.000 -999. 1043.    311.5  0.2160  0.52  1.00   6.20  274.0  15.0 291.8  2.0    0  0.00   72. 1002.     5 NAD-SFC NoSubs
 9  6  9 160 21  -39.6  0.444 -9.000 -9.000 -999.  727.    198.2  0.1750  0.52  1.00   5.10  266.0  15.0 290.4  2.0    0  0.00   75. 1002.     6 NAD-SFC NoSubs
 9  6  9 160 22  -22.0  0.403 -9.000 -9.000 -999.  617.    266.7  0.1750  0.52  1.00   4.60  268.0  15.0 289.4  2.0    0  0.00   79. 1003.    10 NAD-SFC NoSubs
 9  6  9 160 23  -23.3  0.426 -9.000 -9.000 -999.  666.    296.1  0.2160  0.52  1.00   4.60  274.0  15.0 288.4  2.0    0  0.00   82. 1004.    10 NAD-SFC NoSubs
 9  6  9 160 24  -23.4  0.426 -9.000 -9.000 -999.  666.    295.6  0.2160  0.52  1.00   4.60  277.0  15.0 287.9  2.0    0  0.00   83. 1004.    10 NAD-SFC NoSubs
 9  6 10 161  1  -20.7  0.378 -9.000 -9.000 -999.  559.    232.5  0.2160  0.52  1.00   4.10  276.0  15.0 287.9  2.0    0  0.00   82. 1004.    10 NAD-SFC NoSubs
 9  6 10 161  2  -10.3  0.188 -9.000 -9.000 -999.  227.     57.5  0.2160  0.52  1.00   2.10  280.0  15.0 288.0  2.0    0  0.00   82. 1004.    10 NAD-SFC NoSubs
 9  6 10 161  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0 288.1  2.0    0  0.00   82. 1005.    10 NAD-SFC NoSubs
 9  6 10 161  4   -0.8  0.061 -9.000 -9.000 -999.   36.     25.3  0.1810  0.52  1.00   0.50  157.0  15.0 288.2  2.0    0  0.00   81. 1005.    10 NAD-SFC NoSubs
 9  6 10 161  5   -0.8  0.061 -9.000 -9.000 -999.   36.     25.4  0.1900  0.52  1.00   0.50  200.0  15.0 288.2  2.0    0  0.00   81. 1005.    10 NAD-SFC NoSubs
 9  6 10 161  6   -0.5  0.049 -9.000 -9.000 -999.   26.     22.2  0.1950  0.52  0.45   0.50  231.0  15.0 288.2  2.0    0  0.00   81. 1005.    10 NAD-SFC NoSubs
 9  6 10 161  7    7.8  0.072  0.376  0.005  246.   47.     -4.4  0.1750  0.52  0.27   0.50  240.0  15.0 288.2  2.0    0  0.00   81. 1005.    10 NAD-SFC NoSubs
 9  6 10 161  8   19.0  0.239  0.558  0.005  326.  280.    -64.1  0.2720  0.52  0.21   2.10  305.0  15.0 288.4  2.0    0  0.00   76. 1005.    10 NAD-SFC NoSubs
 9  6 10 161  9   28.8 -9.000 -9.000 -9.000  413. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0 288.8  2.0    0  0.00   73. 1005.    10 NAD-SFC NoSubs
 9  6 10 161 10  147.3 -9.000 -9.000 -9.000  667. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0 289.5  2.0    0  0.00   70. 1005.     5 NAD-SFC NoSubs
 9  6 10 161 11  173.1 -9.000 -9.000 -9.000  921. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0 291.0  2.0    0  0.00   65. 1005.     4 NAD-SFC NoSubs
 9  6 10 161 12  183.1 -9.000 -9.000 -9.000 1033. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0 292.5  2.0    0  0.00   60. 1004.     4 NAD-SFC NoSubs
 9  6 10 161 13  183.1 -9.000 -9.000 -9.000 1107. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0 294.0  2.0    0  0.00   55. 1003.     4 NAD-SFC NoSubs
 9  6 10 161 14  172.7  0.117  1.782  0.007 1174.   96.     -1.0  0.2470  0.52  0.19   0.50   57.0  15.0 295.2  2.0    0  0.00   49. 1002.     4 NAD-SFC NoSubs
 9  6 10 161 15  153.6  0.115  1.742  0.006 1230.   94.     -1.0  0.2470  0.52  0.19   0.50   41.0  15.0 296.2  2.0    0  0.00   45. 1001.     3 NAD-SFC NoSubs
 9  6 10 161 16  122.5  0.228  1.634  0.006 1273.  261.     -8.6  0.2940  0.52  0.20   1.50   29.0  15.0 296.8  2.0    0  0.00   44. 1001.     3 NAD-SFC NoSubs
 9  6 10 161 17   83.3  0.265  1.447  0.006 1301.  327.    -19.9  0.2470  0.52  0.22   2.10   31.0  15.0 296.8  2.0    0  0.00   44. 1001.     3 NAD-SFC NoSubs
 9  6 10 161 18   38.6  0.247  1.124  0.006 1314.  295.    -34.9  0.2470  0.52  0.28   2.10   49.0  15.0 296.8  2.0    0  0.00   51. 1001.     3 NAD-SFC NoSubs
 9  6 10 161 19   -5.5  0.198 -9.000 -9.000 -999.  212.    124.8  0.2470  0.52  0.48   2.10   46.0  15.0 296.2  2.0    0  0.00   53. 1001.     3 NAD-SFC NoSubs
 9  6 10 161 20  -26.0  0.264 -9.000 -9.000 -999.  325.     63.1  0.1750  0.52  1.00   3.10  265.0  15.0 294.8  2.0    0  0.00   56. 1002.     4 NAD-SFC NoSubs
 9  6 10 161 21  -39.7  0.398 -9.000 -9.000 -999.  603.    142.3  0.1750  0.52  1.00   4.60  267.0  15.0 291.4  2.0    0  0.00   75. 1003.     4 NAD-SFC NoSubs
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9	6	10	161	22	-42.1	0.420	-9.000	-9.000	-999.	654.	157.6	0.2160	0.52	1.00	4.60	270.0	15.0	289.8	2.0	0	0.00	82.	1003.	4	NAD-SFC	NoSubs
9	6	10	161	23	-40.1	0.398	-9.000	-9.000	-999.	604.	140.9	0.1750	0.52	1.00	4.60	262.0	15.0	288.8	2.0	0	0.00	85.	1004.	4	NAD-SFC	NoSubs
9	6	10	161	24	-25.3	0.264	-9.000	-9.000	-999.	337.	65.0	0.1750	0.52	1.00	3.10	260.0	15.0	288.2	2.0	0	0.00	87.	1004.	5	NAD-SFC	NoSubs
9	6	11	162	1	-12.2	0.174	-9.000	-9.000	-999.	179.	38.9	0.1750	0.52	1.00	2.10	264.0	15.0	287.9	2.0	0	0.00	87.	1004.	6	NAD-SFC	NoSubs
9	6	11	162	2	-2.1	0.082	-9.000	-9.000	-999.	61.	23.4	0.1750	0.52	1.00	1.00	262.0	15.0	287.8	2.0	0	0.00	88.	1004.	10	NAD-SFC	NoSubs
9	6	11	162	3	-0.9	0.065	-9.000	-9.000	-999.	39.	26.4	0.2930	0.52	1.00	0.50	351.0	15.0	287.5	2.0	0	0.00	89.	1004.	10	NAD-SFC	NoSubs
9	6	11	162	4	-0.9	0.065	-9.000	-9.000	-999.	39.	26.4	0.2930	0.52	1.00	0.50	356.0	15.0	287.6	2.0	0	0.00	89.	1004.	10	NAD-SFC	NoSubs
9	6	11	162	5	-2.6	0.092	-9.000	-9.000	-999.	67.	26.8	0.2720	0.52	1.00	1.00	317.0	15.0	287.8	2.0	0	0.00	88.	1004.	10	NAD-SFC	NoSubs
9	6	11	162	6	-1.9	0.092	-9.000	-9.000	-999.	67.	37.6	0.2720	0.52	0.45	1.00	301.0	15.0	287.9	2.0	0	0.00	86.	1005.	10	NAD-SFC	NoSubs
9	6	11	162	7	7.8	0.172	0.296	0.005	120.	171.	-58.8	0.2720	0.52	0.27	1.50	306.0	15.0	288.2	2.0	0	0.00	84.	1005.	10	NAD-SFC	NoSubs
9	6	11	162	8	19.1	0.185	0.484	0.005	212.	191.	-29.6	0.2720	0.52	0.21	1.50	311.0	15.0	288.8	2.0	0	0.00	79.	1005.	10	NAD-SFC	NoSubs
9	6	11	162	9	118.9	-9.000	-9.000	-9.000	522.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	290.0	2.0	0	0.00	73.	1005.	5	NAD-SFC	NoSubs
9	6	11	162	10	153.0	-9.000	-9.000	-9.000	731.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	291.9	2.0	0	0.00	66.	1005.	4	NAD-SFC	NoSubs
9	6	11	162	11	168.1	-9.000	-9.000	-9.000	889.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	293.4	2.0	0	0.00	60.	1004.	5	NAD-SFC	NoSubs
9	6	11	162	12	177.7	-9.000	-9.000	-9.000	1025.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.8	2.0	0	0.00	55.	1003.	5	NAD-SFC	NoSubs
9	6	11	162	13	183.9	-9.000	-9.000	-9.000	1143.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.0	2.0	0	0.00	51.	1002.	4	NAD-SFC	NoSubs
9	6	11	162	14	173.5	-9.000	-9.000	-9.000	1245.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.0	2.0	0	0.00	48.	1001.	4	NAD-SFC	NoSubs
9	6	11	162	15	154.4	0.120	1.790	0.005	1329.	99.	-1.0	0.2930	0.52	0.19	0.50	348.0	15.0	297.8	2.0	0	0.00	45.	1001.	3	NAD-SFC	NoSubs
9	6	11	162	16	123.3	0.176	1.696	0.006	1412.	178.	-4.0	0.2930	0.52	0.20	1.00	360.0	15.0	298.2	2.0	0	0.00	44.	1000.	3	NAD-SFC	NoSubs
9	6	11	162	17	84.2	0.275	1.512	0.006	1468.	347.	-22.1	0.2940	0.52	0.22	2.10	12.0	15.0	298.2	2.0	0	0.00	44.	1000.	3	NAD-SFC	NoSubs
9	6	11	162	18	40.0	0.248	1.187	0.006	1492.	296.	-33.8	0.2470	0.52	0.28	2.10	32.0	15.0	298.2	2.0	0	0.00	51.	1001.	4	NAD-SFC	NoSubs
9	6	11	162	19	-2.9	0.211	-9.000	-9.000	-999.	233.	284.8	0.2940	0.52	0.48	2.10	11.0	15.0	297.8	2.0	0	0.00	53.	1001.	4	NAD-SFC	NoSubs
9	6	11	162	20	-28.8	0.309	-9.000	-9.000	-999.	412.	91.5	0.1750	0.52	1.00	3.60	269.0	15.0	296.0	2.0	0	0.00	59.	1001.	5	NAD-SFC	NoSubs
9	6	11	162	21	-44.1	0.499	-9.000	-9.000	-999.	846.	252.0	0.1750	0.52	1.00	5.70	268.0	15.0	292.8	2.0	0	0.00	71.	1002.	6	NAD-SFC	NoSubs
9	6	11	162	22	-43.2	0.528	-9.000	-9.000	-999.	919.	304.0	0.2160	0.52	1.00	5.70	270.0	15.0	290.9	2.0	0	0.00	74.	1002.	7	NAD-SFC	NoSubs
9	6	11	162	23	-38.6	0.470	-9.000	-9.000	-999.	777.	240.0	0.2160	0.52	1.00	5.10	285.0	15.0	289.8	2.0	0	0.00	77.	1002.	7	NAD-SFC	NoSubs
9	6	11	162	24	-23.2	0.426	-9.000	-9.000	-999.	669.	297.0	0.2160	0.52	1.00	4.60	280.0	15.0	289.2	2.0	0	0.00	80.	1002.	10	NAD-SFC	NoSubs
9	6	12	163	1	-20.6	0.378	-9.000	-9.000	-999.	559.	233.2	0.2160	0.52	1.00	4.10	292.0	15.0	288.8	2.0	0	0.00	82.	1003.	10	NAD-SFC	NoSubs
9	6	12	163	2	-15.4	0.282	-9.000	-9.000	-999.	365.	130.2	0.2160	0.52	1.00	3.10	298.0	15.0	288.5	2.0	0	0.00	82.	1003.	10	NAD-SFC	NoSubs
9	6	12	163	3	-10.9	0.200	-9.000	-9.000	-999.	218.	65.5	0.2720	0.52	1.00	2.10	308.0	15.0	288.6	2.0	0	0.00	82.	1003.	10	NAD-SFC	NoSubs
9	6	12	163	4	-5.8	0.139	-9.000	-9.000	-999.	126.	41.5	0.2720	0.52	1.00	1.50	306.0	15.0	288.8	2.0	0	0.00	81.	1003.	10	NAD-SFC	NoSubs
9	6	12	163	5	-5.8	0.139	-9.000	-9.000	-999.	125.	41.5	0.2720	0.52	1.00	1.50	302.0	15.0	288.8	2.0	0	0.00	80.	1004.	10	NAD-SFC	NoSubs
9	6	12	163	6	-1.8	0.092	-9.000	-9.000	-999.	68.	38.4	0.2720	0.52	0.45	1.00	314.0	15.0	288.8	2.0	0	0.00	80.	1004.	10	NAD-SFC	NoSubs
9	6	12	163	7	7.9	0.127	0.361	0.005	212.	109.	-23.2	0.2720	0.52	0.27	1.00	318.0	15.0	288.9	2.0	0	0.00	79.	1004.	10	NAD-SFC	NoSubs
9	6	12	163	8	57.9	0.160	0.887	0.007	432.	154.	-6.4	0.2930	0.52	0.21	1.00	330.0	15.0	289.1	2.0	0	0.00	73.	1004.	8	NAD-SFC	NoSubs
9	6	12	163	9	119.1	-9.000	-9.000	-9.000	593.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	290.8	2.0	0	0.00	67.	1004.	5	NAD-SFC	NoSubs
9	6	12	163	10	153.1	-9.000	-9.000	-9.000	740.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	292.1	2.0	0	0.00	63.	1004.	4	NAD-SFC	NoSubs
9	6	12	163	11	173.9	-9.000	-9.000	-9.000	872.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	293.5	2.0	0	0.00	58.	1003.	4	NAD-SFC	NoSubs
9	6	12	163	12	183.9	-9.000	-9.000	-9.000	997.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.8	2.0	0	0.00	55.	1002.	4	NAD-SFC	NoSubs
9	6	12	163	13	186.5	-9.000	-9.000	-9.000	1124.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.8	2.0	0	0.00	52.	1002.	3	NAD-SFC	NoSubs
9	6	12	163	14	175.9	-9.000	-9.000	-9.000	1233.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.6	2.0	0	0.00	49.	1001.	3	NAD-SFC	NoSubs
9	6	12	163	15	154.3	-9.000	-9.000	-9.000	1320.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.0	2.0	0	0.00	47.	1001.	3	NAD-SFC	NoSubs
9	6	12	163	16	123.1	0.114	1.682	0.007	1382.	92.	-1.1	0.2720	0.52	0.20	0.50	312.0	15.0	297.2	2.0	0	0.00	46.	1001.	3	NAD-SFC	NoSubs
9	6	12	163	17	84.1	0.108	1.495	0.007	1421.	86.	-1.4	0.2720	0.52	0.22	0.50	319.0	15.0	297.4	2.0	0	0.00	48.	1001.	3	NAD-SFC	NoSubs
9	6	12	163	18	39.9	0.241	1.171	0.007	1439.	283.	-31.2	0.2160	0.52	0.28	2.10	274.0	15.0	297.1	2.0	0	0.00	51.	1001.	4	NAD-SFC	NoSubs
9	6	12	163	19	-7.0	0.365	-9.000	-9.000	-999.	530.	619.2	0.1750	0.52	0.48	4.10	264.0	15.0	294.8	2.0	0	0.00	61.	1002.	4	NAD-SFC	NoSubs
9	6	12	163	20	-52.2	0.526	-9.000	-9.000	-999.	914.	248.7	0.2160	0.52	1.00	5.70	270.0	15.0	292.4	2.0	0	0.00	69.	1002.	4	NAD-SFC	NoSubs
9	6	12	163	21	-57.2	0.574	-9.000	-9.000	-999.	1041.	295.0	0.2160	0.52	1.00	6.20	271.0	15.0	291.1	2.0	0	0.00	72.	1002.	4	NAD-SFC	NoSubs
9	6	12	163	22	-49.8	0.498	-9.000	-9.000	-999.	849.	221.5	0.1750	0.52	1.00	5.70	266.0	15.0	290.2	2.0	0	0.00	75.	1003.	4	NAD-SFC	NoSubs
9	6	12	163	23	-42.3	0.444	-9.000	-9.000	-999.	713.	184.7	0.1750	0.52	1.00	5.10	267.0	15.0	289.6	2.0	0	0.00	78.	1003.	5	NAD-SFC	NoSubs
9	6	12	163	24	-27.8	0.375	-9.000	-9.000	-999.	555.	169.6	0.2160	0.52	1.00	4.10	274.0	15.0	289.2	2.0	0	0.00	79.	1003.	8	NAD-SFC	NoSubs
9	6	13	164	1	-15.4	0.282	-9.000	-9.000	-999.	365.	130.4	0.2160	0.52	1.00	3.10	279.0	15.0	288.9	2.0	0	0.00	81.	1004.	10	NAD-SFC	NoSubs
9	6	13	164	2	-12.9	0.235	-9.000	-9.000	-999.	274.	90.3	0.2160	0.52	1.00	2.60	293.0	15.0	288.6	2.0	0	0.00	82.	1004.	10	NAD-SFC	NoSubs
9	6	13	164	3	-12.9	0.235	-9.000	-9.000	-999.	273.	90.1	0.2160	0.52	1.00	2.60	288.0	15.0	288.2	2.0	0	0.00	83.	1004.	10	NAD-SFC	NoSubs
9	6	13	164	4	-12.9	0.235	-9.000	-9.000	-999.	273.	90.1	0.2160	0.52	1.00	2.60	292.0	15.0	288.0	2.0	0	0.00	83.	1005.	10	NAD-SFC	NoSubs
9	6	13	164	5	-12.9	0.235	-9.000	-9.000	-999.	273.	90.0	0.2160	0.52	1.00	2.60	290.0	15.0	287.9	2.0	0	0.00	83.	1005.	10	NAD-SFC	NoSubs
9	6	13	164	6	-6.9	0.238	-9.000	-9.000	-999.	279.	174.4	0.2160	0.52	0.45	2.60	282.0	15.0	287.8	2.0	0	0.00	82.	1006.	10	NAD-SFC	NoSubs
9	6	13	164	7	7.6	0.303	0.362	0.005	223.	400.	-327.4	0.2160	0.52	0.27	3.10	285.0	15.0	287.8	2.0	0	0.00	80.	1006.	10	NAD-SFC	NoSubs
9	6	13	164	8	57.7	0.196	0.813	0.005	334.	214.	-11.7	0.2160	0.52	0.21	1.50	280.0	15.0	288.4	2.0	0	0.00	74.	1006.	8	NAD-SFC	NoSubs
9	6	13	164	9	100.0	-9.000	-9.000	-9.000	537.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	289.0	2.0	0	0.00	71.	1006.	7	NAD-SFC	NoSubs
9	6	13	164	10	147.3	-9.000	-9.000	-9.000	777.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	289.5	2.0	0	0.00	69.	1006.	5	NAD-SFC	NoSubs
9	6	13	164	11	175.5	-9.000	-9.000	-9.000	979.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	290.9	2.0	0	0.00	65.	1006.	3	NAD-SFC	NoSubs
9	6	13	164	12	185.9	-9.000	-9.000	-9.000	1068.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	292.8	2.0	0	0.00	59.	1005.	3	NAD-SFC	NoSubs
9	6	13	164	13	186.1	-9.000	-9.000	-9.000	1151.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.4	2.0	0	0.00	53.	1004.	3	NAD-SFC	NoSubs
9	6	13	164	14	175.7	-9.000	-9.000	-9.000	1225.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.8	2.0	0	0.00	47.	1003.	3	NAD-SFC	NoSubs
9	6	13	164	15	154.3	0.181	1.769	0.005	1286.	185.	-3.4	0.2930	0.52	0.19	1.00	350.0	15.0	296.8	2.0	0	0.00	43.	1003.	3	NAD-SFC	NoSubs
9	6	13	164	16	123.3	0.286	1.662	0.005	1333.	366.	-16.9	0.2940	0.52	0.20	2.10	4.0	15.0	297.2	2.0	0	0.00	42.	1002.	3	NAD-SFC	NoSubs
9	6	13	164	17	84.3	-9.000	-9.000	-9.000	1382.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	297.2	2.0	0	0.00	42.	1002.	3	NAD-SFC	NoSubs
9	6	13	164	18	39.5	0.303	1.158	0.005	1404.	400.	-62.8	0.2940	0.52	0.28	2.60	15.0	15.0	296.8	2.0	0	0.00	51.	1002.	3	NAD-SFC	NoSubs
9	6	13	164	19	-6.0	0.261	-9.000	-9.000	-999.	320.	265.9	0.2930	0.52	0.48	2.60	356.0	15.0	296.2	2.0	0	0.00	54.	1003.	3	NAD-SFC	NoSubs
9	6	13	164	20	-36.8	0.373	-9.000	-9.000	-999.	547.	126.3	0.2160	0.52	1.00	4.10	276.0	15.0	294.8	2.0	0	0.00	58.	1003.	4	NAD-SFC	NoSubs
9	6	13	164	21	-49.7	0.498	-9.000	-9.000	-999.	843.	222.3	0.1750	0.52	1.00	5.70	268.0	15.0	291.2	2.0	0	0.00	73.	1003.	4	NAD-SFC	NoSubs
9	6	13	164	22	-50.0	0.498	-9.000	-9.000	-999.	843.	221.1	0.1750	0.52	1.00	5.70	267.0	15.0	289.8	2.0	0	0.00	78.	1004.	4	NAD-SFC	NoSubs
9	6	13	164	23	-42.5	0.444	-9.000	-9.000	-999.	712.	184.1	0.1750	0.52	1.00	5.10	267.0	15.0	288.8	2.0	0	0.00	83.	1004.	5	NAD-SFC	NoSubs
9	6	13	164	24	-40.2	0.398	-9.000	-9.000	-999.	605.	140.6	0.1750	0.52	1.00	4.60	268.0	15.0	288.1	2.0	0	0.00	85.	1004.	4	NAD-SFC	NoSubs
9	6	14	165	1	-29.7	0.309	-9.000	-9.000	-999.	417.	88.7	0.1750	0.52	1.00	3.60	269.0	15.0	287.5	2.0	0	0.00	88.	1004.	5	NAD-SFC	NoSubs
9	6	14	165	2	-5.6	0.122	-9.000	-9.000	-999.	141.	29.4	0.1750	0.52	1.00	1.50	250.0	15.0	287.1	2.0	0	0.00	89.	1005.	8	NAD-SFC	NoSubs

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 9  6 14 165  3   -2.2  0.084 -9.000 -9.000 -999.   60.     24.1  0.1950  0.52  1.00  1.00  229.0  15.0  286.8  2.0   0   0.00   90.  1005.   10 NAD-SFC NoSubs
 9  6 14 165  4   -0.8  0.062 -9.000 -9.000 -999.   37.     25.7  0.2160  0.52  1.00  0.50  290.0  15.0  286.6  2.0   0   0.00   90.  1005.   10 NAD-SFC NoSubs
 9  6 14 165  5   -0.9  0.064 -9.000 -9.000 -999.   39.     26.2  0.2720  0.52  1.00  0.50  317.0  15.0  286.5  2.0   0   0.00   90.  1006.   10 NAD-SFC NoSubs
 9  6 14 165  6   -4.3  0.143 -9.000 -9.000 -999.  129.     60.2  0.2720  0.52  0.45  1.50  321.0  15.0  286.8  2.0   0   0.00   89.  1006.   10 NAD-SFC NoSubs
 9  6 14 165  7    7.5  0.226  0.274  0.005   98.  258.   -138.6  0.2720  0.52  0.27  2.10  319.0  15.0  287.1  2.0   0   0.00   86.  1006.   10 NAD-SFC NoSubs
 9  6 14 165  8   18.8  0.184  0.430  0.005  152.  191.    -30.0  0.2720  0.52  0.21  1.50  317.0  15.0  287.6  2.0   0   0.00   82.  1006.   10 NAD-SFC NoSubs
 9  6 14 165  9  118.7 -9.000 -9.000 -9.000  423. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  289.8  2.0   0   0.00   73.  1006.    5 NAD-SFC NoSubs
 9  6 14 165 10  152.9 -9.000 -9.000 -9.000  664. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  291.8  2.0   0   0.00   65.  1005.    4 NAD-SFC NoSubs
 9  6 14 165 11  173.8 -9.000 -9.000 -9.000  823. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  293.2  2.0   0   0.00   59.  1004.    4 NAD-SFC NoSubs
 9  6 14 165 12  184.0 -9.000 -9.000 -9.000  964. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  294.8  2.0   0   0.00   53.  1004.    4 NAD-SFC NoSubs
 9  6 14 165 13  184.1 -9.000 -9.000 -9.000 1139. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  296.0  2.0   0   0.00   49.  1003.    4 NAD-SFC NoSubs
 9  6 14 165 14  176.3 -9.000 -9.000 -9.000 1289. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  297.0  2.0   0   0.00   45.  1002.    3 NAD-SFC NoSubs
 9  6 14 165 15  154.9  0.120  1.821  0.006 1394.  100.    -1.0  0.2930  0.52  0.19  0.50  340.0  15.0  297.8  2.0   0   0.00   41.  1001.    3 NAD-SFC NoSubs
 9  6 14 165 16  123.8  0.228  1.718  0.006 1465.  261.    -8.5  0.2940  0.52  0.20  1.50    8.0  15.0  297.9  2.0   0   0.00   44.  1001.    3 NAD-SFC NoSubs
 9  6 14 165 17   84.8  0.321  1.531  0.006 1512.  437.   -34.9  0.2940  0.52  0.22  2.60   18.0  15.0  297.9  2.0   0   0.00   45.  1001.    3 NAD-SFC NoSubs
 9  6 14 165 18   40.2  0.292  1.199  0.006 1532.  379.   -55.2  0.2470  0.52  0.28  2.60   34.0  15.0  297.6  2.0   0   0.00   53.  1001.    3 NAD-SFC NoSubs
 9  6 14 165 19   -5.8  0.299 -9.000 -9.000 -999.  392.   408.8  0.2470  0.52  0.47  3.10   46.0  15.0  296.9  2.0   0   0.00   57.  1001.    3 NAD-SFC NoSubs
 9  6 14 165 20   -7.5  0.133 -9.000 -9.000 -999.  141.    28.3  0.2470  0.52  1.00  1.50   59.0  15.0  295.9  2.0   0   0.00   59.  1002.    3 NAD-SFC NoSubs
 9  6 14 165 21  -34.9  0.353 -9.000 -9.000 -999.  504.   113.1  0.1750  0.52  1.00  4.10  256.0  15.0  294.2  2.0   0   0.00   64.  1002.    4 NAD-SFC NoSubs
 9  6 14 165 22  -39.7  0.398 -9.000 -9.000 -999.  603.   142.2  0.1750  0.52  1.00  4.60  267.0  15.0  291.2  2.0   0   0.00   76.  1002.    4 NAD-SFC NoSubs
 9  6 14 165 23  -30.9  0.308 -9.000 -9.000 -999.  416.    84.9  0.1750  0.52  1.00  3.60  258.0  15.0  289.9  2.0   0   0.00   81.  1003.    4 NAD-SFC NoSubs
 9  6 14 165 24  -26.5  0.264 -9.000 -9.000 -999.  326.    61.9  0.1750  0.52  1.00  3.10  259.0  15.0  289.1  2.0   0   0.00   84.  1003.    4 NAD-SFC NoSubs
 9  6 15 166  1  -13.7  0.184 -9.000 -9.000 -999.  191.    40.5  0.2160  0.52  1.00  2.10  272.0  15.0  288.5  2.0   0   0.00   85.  1003.    5 NAD-SFC NoSubs
 9  6 15 166  2   -3.3  0.094 -9.000 -9.000 -999.   73.    22.4  0.2160  0.52  1.00  1.00  271.0  15.0  288.1  2.0   0   0.00   85.  1003.    5 NAD-SFC NoSubs
 9  6 15 166  3   -1.2  0.074 -9.000 -9.000 -999.   48.    29.3  0.1750  0.52  1.00  0.50  260.0  15.0  287.8  2.0   0   0.00   86.  1003.    6 NAD-SFC NoSubs
 9  6 15 166  4   -1.4  0.078 -9.000 -9.000 -999.   52.    30.4  0.2160  0.52  1.00  0.50  274.0  15.0  287.5  2.0   0   0.00   86.  1004.    5 NAD-SFC NoSubs
 9  6 15 166  5   -1.4  0.079 -9.000 -9.000 -999.   54.    30.9  0.2160  0.52  1.00  0.50  275.0  15.0  287.2  2.0   0   0.00   87.  1004.    4 NAD-SFC NoSubs
 9  6 15 166  6   -0.2  0.043 -9.000 -9.000 -999.   21.    28.3  0.2160  0.52  0.45  0.50  292.0  15.0  287.4  2.0   0   0.00   85.  1004.    4 NAD-SFC NoSubs
 9  6 15 166  7   41.4 -9.000 -9.000 -9.000  191. -999. -99999.0  0.2235  0.52  0.27  0.00    0.0  15.0  289.1  2.0   0   0.00   76.  1004.    4 NAD-SFC NoSubs
 9  6 15 166  8   85.7 -9.000 -9.000 -9.000  374. -999. -99999.0  0.2235  0.52  0.21  0.00    0.0  15.0  290.8  2.0   0   0.00   71.  1004.    3 NAD-SFC NoSubs
 9  6 15 166  9  124.5 -9.000 -9.000 -9.000  548. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  291.9  2.0   0   0.00   66.  1004.    3 NAD-SFC NoSubs
 9  6 15 166 10  155.3 -9.000 -9.000 -9.000  706. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  293.2  2.0   0   0.00   62.  1003.    3 NAD-SFC NoSubs
 9  6 15 166 11  176.7 -9.000 -9.000 -9.000  845. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  294.8  2.0   0   0.00   57.  1003.    3 NAD-SFC NoSubs
 9  6 15 166 12  187.2 -9.000 -9.000 -9.000  972. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  296.1  2.0   0   0.00   52.  1002.    3 NAD-SFC NoSubs
 9  6 15 166 13  187.2 -9.000 -9.000 -9.000 1150. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  297.1  2.0   0   0.00   48.  1001.    3 NAD-SFC NoSubs
 9  6 15 166 14  176.9  0.122  1.857  0.006 1295.  102.    -1.0  0.2930  0.52  0.19  0.50  337.0  15.0  297.8  2.0   0   0.00   45.  1001.    2 NAD-SFC NoSubs
 9  6 15 166 15  155.2  0.234  1.820  0.007 1388.  271.    -7.3  0.2930  0.52  0.19  1.50  355.0  15.0  298.2  2.0   0   0.00   43.  1000.    3 NAD-SFC NoSubs
 9  6 15 166 16  124.2 -9.000 -9.000 -9.000 1448. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  298.4  2.0   0   0.00   43.  1000.    3 NAD-SFC NoSubs
 9  6 15 166 17   85.2  0.276  1.525  0.007 1487.  347.   -21.9  0.2940  0.52  0.22  2.10    9.0  15.0  298.2  2.0   0   0.00   50.  1000.    3 NAD-SFC NoSubs
 9  6 15 166 18   40.7  0.257  1.197  0.007 1505.  314.   -37.4  0.2930  0.52  0.28  2.10  336.0  15.0  298.2  2.0   0   0.00   52.  1001.    3 NAD-SFC NoSubs
 9  6 15 166 19   -5.9  0.338 -9.000 -9.000 -999.  471.   583.2  0.2160  0.52  0.47  3.60  285.0  15.0  297.1  2.0   0   0.00   54.  1001.    3 NAD-SFC NoSubs
 9  6 15 166 20  -40.7  0.398 -9.000 -9.000 -999.  602.   138.4  0.1750  0.52  1.00  4.60  257.0  15.0  294.5  2.0   0   0.00   61.  1002.    3 NAD-SFC NoSubs
 9  6 15 166 21  -41.0  0.398 -9.000 -9.000 -999.  603.   137.5  0.1750  0.52  1.00  4.60  260.0  15.0  292.6  2.0   0   0.00   68.  1002.    3 NAD-SFC NoSubs
 9  6 15 166 22  -41.8  0.420 -9.000 -9.000 -999.  654.   158.6  0.2160  0.52  1.00  4.60  275.0  15.0  291.5  2.0   0   0.00   73.  1002.    4 NAD-SFC NoSubs
 9  6 15 166 23  -32.5  0.326 -9.000 -9.000 -999.  452.    94.9  0.2160  0.52  1.00  3.60  271.0  15.0  290.6  2.0   0   0.00   77.  1002.    4 NAD-SFC NoSubs
 9  6 15 166 24  -26.5  0.279 -9.000 -9.000 -999.  354.    73.0  0.2160  0.52  1.00  3.10  273.0  15.0  290.0  2.0   0   0.00   80.  1002.    5 NAD-SFC NoSubs
 9  6 16 167  1   -6.6  0.129 -9.000 -9.000 -999.  129.    28.8  0.2160  0.52  1.00  1.50  270.0  15.0  289.9  2.0   0   0.00   80.  1002.    6 NAD-SFC NoSubs
 9  6 16 167  2   -3.0  0.089 -9.000 -9.000 -999.   64.    21.5  0.1750  0.52  1.00  1.00  247.0  15.0  289.8  2.0   0   0.00   80.  1002.    6 NAD-SFC NoSubs
 9  6 16 167  3   -3.2  0.092 -9.000 -9.000 -999.   67.    22.0  0.1950  0.52  1.00  1.00  230.0  15.0  289.5  2.0   0   0.00   81.  1002.    5 NAD-SFC NoSubs
 9  6 16 167  4   -3.2  0.092 -9.000 -9.000 -999.   67.    21.6  0.1750  0.52  1.00  1.00  240.0  15.0  289.1  2.0   0   0.00   82.  1002.    4 NAD-SFC NoSubs
 9  6 16 167  5   -3.3  0.094 -9.000 -9.000 -999.   69.    22.0  0.1950  0.52  1.00  1.00  229.0  15.0  288.8  2.0   0   0.00   84.  1002.    4 NAD-SFC NoSubs
 9  6 16 167  6   -0.7  0.086 -9.000 -9.000 -999.   60.    77.9  0.1750  0.52  0.45  1.00  241.0  15.0  288.8  2.0   0   0.00   83.  1003.    4 NAD-SFC NoSubs
 9  6 16 167  7   41.4  0.090  0.606  0.006  192.   64.    -1.6  0.1750  0.52  0.27  0.50  269.0  15.0  290.8  2.0   0   0.00   72.  1003.    3 NAD-SFC NoSubs
 9  6 16 167  8   86.0 -9.000 -9.000 -9.000  373. -999. -99999.0  0.2235  0.52  0.21  0.00    0.0  15.0  292.2  2.0   0   0.00   66.  1003.    3 NAD-SFC NoSubs
 9  6 16 167  9  125.0 -9.000 -9.000 -9.000  601. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  293.8  2.0   0   0.00   60.  1003.    3 NAD-SFC NoSubs
 9  6 16 167 10  155.9 -9.000 -9.000 -9.000  811. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  295.2  2.0   0   0.00   54.  1003.    2 NAD-SFC NoSubs
 9  6 16 167 11  177.6 -9.000 -9.000 -9.000 1001. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  296.8  2.0   0   0.00   49.  1002.    2 NAD-SFC NoSubs
 9  6 16 167 12  188.0 -9.000 -9.000 -9.000 1165. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  298.2  2.0   0   0.00   45.  1001.    3 NAD-SFC NoSubs
 9  6 16 167 13  188.2 -9.000 -9.000 -9.000 1309. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  299.4  2.0   0   0.00   40.  1001.    3 NAD-SFC NoSubs
 9  6 16 167 14  177.8  0.122  1.905  0.008 1388.  102.    -1.0  0.2930  0.52  0.19  0.50  339.0  15.0  300.2  2.0   0   0.00   37.  1000.    3 NAD-SFC NoSubs
 9  6 16 167 15  156.6  0.181  1.850  0.007 1444.  185.    -3.4  0.2930  0.52  0.19  1.00  360.0  15.0  300.9  2.0   0   0.00   36.   999.    3 NAD-SFC NoSubs
 9  6 16 167 16  125.7  0.286  1.736  0.007 1486.  368.   -16.6  0.2940  0.52  0.20  2.10   13.0  15.0  301.2  2.0   0   0.00   35.   999.    3 NAD-SFC NoSubs
 9  6 16 167 17   86.0  0.276  1.540  0.007 1514.  348.   -21.7  0.2940  0.52  0.22  2.10   22.0  15.0  301.2  2.0   0   0.00   35.   999.    2 NAD-SFC NoSubs
 9  6 16 167 18   41.0  0.202  1.207  0.006 1527.  221.   -18.0  0.2940  0.52  0.28  1.50   15.0  15.0  300.9  2.0   0   0.00   42.   999.    2 NAD-SFC NoSubs
 9  6 16 167 19   -2.5  0.148 -9.000 -9.000 -999.  137.   116.4  0.2940  0.52  0.47  1.50    4.0  15.0  300.4  2.0   0   0.00   44.   999.    2 NAD-SFC NoSubs
 9  6 16 167 20  -37.5  0.373 -9.000 -9.000 -999.  546.   123.2  0.2160  0.52  1.00  4.10  271.0  15.0  298.9  2.0   0   0.00   49.  1000.    3 NAD-SFC NoSubs
 9  6 16 167 21  -50.9  0.498 -9.000 -9.000 -999.  842.   216.0  0.1750  0.52  1.00  5.70  257.0  15.0  294.1  2.0   0   0.00   71.  1000.    3 NAD-SFC NoSubs
 9  6 16 167 22  -45.6  0.443 -9.000 -9.000 -999.  711.   170.4  0.1750  0.52  1.00  5.10  257.0  15.0  292.6  2.0   0   0.00   73.  1001.    3 NAD-SFC NoSubs
 9  6 16 167 23  -36.4  0.353 -9.000 -9.000 -999.  509.   107.9  0.1750  0.52  1.00  4.10  257.0  15.0  291.8  2.0   0   0.00   76.  1001.    3 NAD-SFC NoSubs
 9  6 16 167 24  -12.9  0.173 -9.000 -9.000 -999.  202.    35.8  0.1750  0.52  1.00  2.10  250.0  15.0  291.2  2.0   0   0.00   78.  1001.    3 NAD-SFC NoSubs
 9  6 17 168  1   -3.3  0.093 -9.000 -9.000 -999.   73.    21.8  0.1810  0.52  1.00  1.00  156.0  15.0  291.2  2.0   0   0.00   78.  1002.    3 NAD-SFC NoSubs
 9  6 17 168  2   -6.9  0.126 -9.000 -9.000 -999.  107.    26.0  0.1970  0.52  1.00  1.50  129.0  15.0  290.9  2.0   0   0.00   79.  1002.    3 NAD-SFC NoSubs
 9  6 17 168  3   -1.4  0.079 -9.000 -9.000 -999.   53.    30.8  0.1810  0.52  1.00  0.50  177.0  15.0  290.6  2.0   0   0.00   80.  1002.    3 NAD-SFC NoSubs
 9  6 17 168  4   -1.4  0.079 -9.000 -9.000 -999.   53.    30.8  0.2160  0.52  1.00  0.50  288.0  15.0  290.4  2.0   0   0.00   81.  1002.    4 NAD-SFC NoSubs
 9  6 17 168  5   -1.5  0.081 -9.000 -9.000 -999.   56.    31.3  0.2720  0.52  1.00  0.50  309.0  15.0  290.1  2.0   0   0.00   82.  1003.    4 NAD-SFC NoSubs
 9  6 17 168  6   -0.6  0.097 -9.000 -9.000 -999.   72.   140.4  0.2720  0.52  0.45  1.00  312.0  15.0  290.2  2.0   0   0.00   83.  1003.    4 NAD-SFC NoSubs
 9  6 17 168  7   41.6  0.202  0.653  0.006  239.  219.   -17.9  0.2930  0.52  0.27  1.50  347.0  15.0  291.8  2.0   0   0.00   76.  1003.    3 NAD-SFC NoSubs
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 9  6 17 168  8   86.2  0.111  1.034  0.007  459.   92.     -1.4  0.2930  0.52  0.22  0.50  333.0  15.0  293.0  2.0  0  0.00  71.  1003.   3 NAD-SFC NoSubs
 9  6 17 168  9  125.1 -9.000 -9.000 -9.000  638. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  294.4  2.0  0  0.00  66.  1003.   3 NAD-SFC NoSubs
 9  6 17 168 10  156.2 -9.000 -9.000 -9.000  759. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  296.1  2.0  0  0.00  60.  1002.   3 NAD-SFC NoSubs
 9  6 17 168 11  177.8 -9.000 -9.000 -9.000  871. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  297.8  2.0  0  0.00  54.  1002.   3 NAD-SFC NoSubs
 9  6 17 168 12  188.4 -9.000 -9.000 -9.000  981. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  299.1  2.0  0  0.00  50.  1000.   3 NAD-SFC NoSubs
 9  6 17 168 13  188.6 -9.000 -9.000 -9.000 1123. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  300.2  2.0  0  0.00  46.  1000.   3 NAD-SFC NoSubs
 9  6 17 168 14  178.4  0.122  1.838  0.005 1243.  103.     -1.0  0.2930  0.52  0.19  0.50  347.0  15.0  301.1  2.0  0  0.00  44.   999.   3 NAD-SFC NoSubs
 9  6 17 168 15  157.1  0.234  1.808  0.006 1341.  272.     -7.3  0.2940  0.52  0.19  1.50   13.0  15.0  301.8  2.0  0  0.00  43.   998.   3 NAD-SFC NoSubs
 9  6 17 168 16  126.2  0.333  1.711  0.007 1415.  461.    -26.0  0.2940  0.52  0.20  2.60    8.0  15.0  302.0  2.0  0  0.00  43.   998.   3 NAD-SFC NoSubs
 9  6 17 168 17   87.3  0.368  1.530  0.007 1463.  537.    -51.0  0.2940  0.52  0.22  3.10    8.0  15.0  301.9  2.0  0  0.00  44.   998.   3 NAD-SFC NoSubs
 9  6 17 168 18   41.6 -9.000 -9.000 -9.000 1485. -999. -99999.0  0.2235  0.52  0.28  0.00    0.0  15.0  301.6  2.0  0  0.00  52.   998.   2 NAD-SFC NoSubs
 9  6 17 168 19   -0.6  0.270 -9.000 -9.000 -999.  337.   3010.2  0.2940  0.52  0.47  2.60    2.0  15.0  301.0  2.0  0  0.00  54.   998.   3 NAD-SFC NoSubs
 9  6 17 168 20  -16.1  0.200 -9.000 -9.000 -999.  217.     44.4  0.2930  0.52  1.00  2.10  342.0  15.0  299.9  2.0  0  0.00  57.   998.   3 NAD-SFC NoSubs
 9  6 17 168 21  -28.0  0.278 -9.000 -9.000 -999.  352.     68.7  0.2160  0.52  1.00  3.10  285.0  15.0  298.8  2.0  0  0.00  60.   998.   3 NAD-SFC NoSubs
 9  6 17 168 22  -42.7  0.420 -9.000 -9.000 -999.  654.    154.7  0.2160  0.52  1.00  4.60  275.0  15.0  295.5  2.0  0  0.00  72.   998.   3 NAD-SFC NoSubs
 9  6 17 168 23  -33.2  0.325 -9.000 -9.000 -999.  451.     92.4  0.2160  0.52  1.00  3.60  273.0  15.0  294.0  2.0  0  0.00  76.   998.   3 NAD-SFC NoSubs
 9  6 17 168 24  -20.1  0.218 -9.000 -9.000 -999.  251.     46.2  0.1750  0.52  1.00  2.60  269.0  15.0  293.8  2.0  0  0.00  76.   998.   3 NAD-SFC NoSubs
 9  6 18 169  1   -6.5  0.122 -9.000 -9.000 -999.  107.     25.1  0.1750  0.52  1.00  1.50  260.0  15.0  293.5  2.0  0  0.00  75.   998.   3 NAD-SFC NoSubs
 9  6 18 169  2   -3.3  0.093 -9.000 -9.000 -999.   68.     21.6  0.1750  0.52  1.00  1.00  252.0  15.0  293.2  2.0  0  0.00  76.   998.   3 NAD-SFC NoSubs
 9  6 18 169  3   -1.4  0.078 -9.000 -9.000 -999.   52.     30.6  0.1750  0.52  1.00  0.50  254.0  15.0  293.0  2.0  0  0.00  77.   999.   3 NAD-SFC NoSubs
 9  6 18 169  4   -1.4  0.078 -9.000 -9.000 -999.   52.     30.6  0.1750  0.52  1.00  0.50  265.0  15.0  292.8  2.0  0  0.00  79.   999.   3 NAD-SFC NoSubs
 9  6 18 169  5   -1.4  0.078 -9.000 -9.000 -999.   52.     30.6  0.1750  0.52  1.00  0.50  261.0  15.0  292.2  2.0  0  0.00  82.   999.   3 NAD-SFC NoSubs
 9  6 18 169  6   -1.0  0.085 -9.000 -9.000 -999.   59.     55.1  0.1750  0.52  0.45  1.00  265.0  15.0  292.1  2.0  0  0.00  84.   999.   3 NAD-SFC NoSubs
 9  6 18 169  7   42.2  0.152  0.569  0.007  156.  142.     -7.4  0.2720  0.52  0.27  1.00  316.0  15.0  293.9  2.0  0  0.00  77.  1000.   3 NAD-SFC NoSubs
 9  6 18 169  8   86.4 -9.000 -9.000 -9.000  310. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  295.8  2.0  0  0.00  70.  1000.   2 NAD-SFC NoSubs
 9  6 18 169  9  126.0 -9.000 -9.000 -9.000  518. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  297.8  2.0  0  0.00  64.   999.   2 NAD-SFC NoSubs
 9  6 18 169 10  157.6 -9.000 -9.000 -9.000  767. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  299.6  2.0  0  0.00  55.   999.   2 NAD-SFC NoSubs
 9  6 18 169 11  179.6 -9.000 -9.000 -9.000  995. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.4  2.0  0  0.00  46.   999.   2 NAD-SFC NoSubs
 9  6 18 169 12  190.4 -9.000 -9.000 -9.000 1128. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  302.8  2.0  0  0.00  40.   998.   2 NAD-SFC NoSubs
 9  6 18 169 13  190.8 -9.000 -9.000 -9.000 1249. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  304.0  2.0  0  0.00  37.   997.   2 NAD-SFC NoSubs
 9  6 18 169 14  180.5  0.122  1.900  0.007 1351.  103.     -1.0  0.2930  0.52  0.19  0.50  352.0  15.0  304.9  2.0  0  0.00  34.   996.   2 NAD-SFC NoSubs
 9  6 18 169 15  159.1  0.182  1.854  0.006 1424.  186.     -3.4  0.2940  0.52  0.19  1.00   12.0  15.0  305.4  2.0  0  0.00  33.   995.   2 NAD-SFC NoSubs
 9  6 18 169 16  127.9  0.287  1.746  0.006 1480.  369.    -16.4  0.2940  0.52  0.20  2.10   10.0  15.0  305.6  2.0  0  0.00  34.   995.   2 NAD-SFC NoSubs
 9  6 18 169 17   88.4  0.369  1.557  0.006 1515.  538.    -50.4  0.2940  0.52  0.22  3.10   16.0  15.0  305.1  2.0  0  0.00  42.   995.   2 NAD-SFC NoSubs
 9  6 18 169 18   43.2  0.351  1.231  0.006 1532.  499.    -88.6  0.2940  0.52  0.28  3.10   21.0  15.0  304.4  2.0  0  0.00  50.   994.   2 NAD-SFC NoSubs
 9  6 18 169 19   -0.9  0.322 -9.000 -9.000 -999.  439.   3188.9  0.2940  0.52  0.47  3.10   21.0  15.0  303.5  2.0  0  0.00  52.   994.   2 NAD-SFC NoSubs
 9  6 18 169 20  -16.2  0.200 -9.000 -9.000 -999.  223.     44.0  0.2930  0.52  1.00  2.10  350.0  15.0  302.2  2.0  0  0.00  54.   995.   2 NAD-SFC NoSubs
 9  6 18 169 21  -14.0  0.183 -9.000 -9.000 -999.  188.     38.9  0.2160  0.52  1.00  2.10  298.0  15.0  301.1  2.0  0  0.00  57.   995.   2 NAD-SFC NoSubs
 9  6 18 169 22  -21.9  0.231 -9.000 -9.000 -999.  266.     49.8  0.2160  0.52  1.00  2.60  290.0  15.0  300.0  2.0  0  0.00  61.   995.   2 NAD-SFC NoSubs
 9  6 18 169 23  -27.1  0.263 -9.000 -9.000 -999.  324.     59.9  0.1750  0.52  1.00  3.10  267.0  15.0  298.6  2.0  0  0.00  66.   995.   2 NAD-SFC NoSubs
 9  6 18 169 24  -12.9  0.173 -9.000 -9.000 -999.  176.     35.7  0.1750  0.52  1.00  2.10  250.0  15.0  297.5  2.0  0  0.00  69.   995.   2 NAD-SFC NoSubs
 9  6 19 170  1   -3.8  0.100 -9.000 -9.000 -999.   78.     23.3  0.2720  0.52  1.00  1.00  302.0  15.0  296.9  2.0  0  0.00  70.   994.   2 NAD-SFC NoSubs
 9  6 19 170  2   -8.1  0.140 -9.000 -9.000 -999.  126.     29.8  0.2940  0.52  1.00  1.50    5.0  15.0  296.2  2.0  0  0.00  73.   994.   2 NAD-SFC NoSubs
 9  6 19 170  3   -1.5  0.080 -9.000 -9.000 -999.   55.     31.2  0.2090  0.52  1.00  0.50   68.0  15.0  295.6  2.0  0  0.00  76.   994.   2 NAD-SFC NoSubs
 9  6 19 170  4   -1.4  0.080 -9.000 -9.000 -999.   54.     31.1  0.1950  0.52  1.00  0.50  228.0  15.0  294.9  2.0  0  0.00  78.   994.   2 NAD-SFC NoSubs
 9  6 19 170  5   -3.5  0.096 -9.000 -9.000 -999.   72.     22.4  0.2160  0.52  1.00  1.00  294.0  15.0  294.6  2.0  0  0.00  80.   994.   2 NAD-SFC NoSubs
 9  6 19 170  6   -2.3  0.136 -9.000 -9.000 -999.  120.     97.7  0.2160  0.52  0.45  1.50  286.0  15.0  294.2  2.0  0  0.00  81.   995.   2 NAD-SFC NoSubs
 9  6 19 170  7   41.2  0.199  0.567  0.008  157.  213.    -17.0  0.2720  0.52  0.27  1.50  313.0  15.0  294.6  2.0  0  0.00  80.   995.   2 NAD-SFC NoSubs
 9  6 19 170  8   86.6  0.168  0.900  0.007  298.  166.     -4.9  0.2930  0.52  0.22  1.00  356.0  15.0  296.6  2.0  0  0.00  69.   995.   2 NAD-SFC NoSubs
 9  6 19 170  9  126.5 -9.000 -9.000 -9.000  463. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  299.2  2.0  0  0.00  59.   995.   2 NAD-SFC NoSubs
 9  6 19 170 10  158.3 -9.000 -9.000 -9.000  677. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.2  2.0  0  0.00  53.   995.   2 NAD-SFC NoSubs
 9  6 19 170 11  180.1 -9.000 -9.000 -9.000  888. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  302.6  2.0  0  0.00  49.   994.   2 NAD-SFC NoSubs
 9  6 19 170 12  191.0 -9.000 -9.000 -9.000 1025. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  304.0  2.0  0  0.00  43.   994.   2 NAD-SFC NoSubs
 9  6 19 170 13  191.4 -9.000 -9.000 -9.000 1115. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  305.1  2.0  0  0.00  39.   993.   2 NAD-SFC NoSubs
 9  6 19 170 14  181.2  0.123  1.827  0.007 1193.  103.     -1.0  0.2930  0.52  0.19  0.50  332.0  15.0  305.9  2.0  0  0.00  36.   993.   2 NAD-SFC NoSubs
 9  6 19 170 15  159.6  0.235  1.783  0.006 1259.  273.     -7.2  0.2930  0.52  0.19  1.50  356.0  15.0  306.1  2.0  0  0.00  36.   992.   2 NAD-SFC NoSubs
 9  6 19 170 16  127.3 -9.000 -9.000 -9.000 1304. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  304.2  2.0  0  0.00  55.   992.   2 NAD-SFC NoSubs
 9  6 19 170 17   88.3 -9.000 -9.000 -9.000 1338. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  304.4  2.0  0  0.00  53.   992.   2 NAD-SFC NoSubs
 9  6 19 170 18   43.3  0.305  1.185  0.005 1361.  404.    -57.9  0.2930  0.52  0.28  2.60  351.0  15.0  304.1  2.0  0  0.00  57.   992.   2 NAD-SFC NoSubs
 9  6 19 170 19    1.1  0.367  0.353  0.005 1359.  534.  -3824.1  0.2930  0.52  0.46  3.60  334.0  15.0  303.2  2.0  0  0.00  57.   992.   3 NAD-SFC NoSubs
 9  6 19 170 20  -39.4  0.397 -9.000 -9.000 -999.  601.    141.2  0.2720  0.52  1.00  4.10  308.0  15.0  301.4  2.0  0  0.00  60.   993.   3 NAD-SFC NoSubs
 9  6 19 170 21  -39.6  0.397 -9.000 -9.000 -999.  601.    140.3  0.2720  0.52  1.00  4.10  316.0  15.0  299.4  2.0  0  0.00  66.   993.   3 NAD-SFC NoSubs
 9  6 19 170 22  -45.0  0.448 -9.000 -9.000 -999.  719.    177.0  0.2720  0.52  1.00  4.60  316.0  15.0  297.5  2.0  0  0.00  72.   994.   3 NAD-SFC NoSubs
 9  6 19 170 23  -40.1  0.397 -9.000 -9.000 -999.  603.    138.5  0.2720  0.52  1.00  4.10  304.0  15.0  295.9  2.0  0  0.00  74.   994.   3 NAD-SFC NoSubs
 9  6 19 170 24  -35.2  0.347 -9.000 -9.000 -999.  492.    105.2  0.2720  0.52  1.00  3.60  308.0  15.0  294.8  2.0  0  0.00  74.   995.   3 NAD-SFC NoSubs
 9  6 20 171  1  -30.2  0.297 -9.000 -9.000 -999.  389.     76.8  0.2720  0.52  1.00  3.10  311.0  15.0  294.0  2.0  0  0.00  74.   995.   3 NAD-SFC NoSubs
 9  6 20 171  2  -15.6  0.196 -9.000 -9.000 -999.  212.     42.6  0.2720  0.52  1.00  2.10  312.0  15.0  293.5  2.0  0  0.00  73.   995.   3 NAD-SFC NoSubs
 9  6 20 171  3   -3.5  0.096 -9.000 -9.000 -999.   77.     22.4  0.2160  0.52  1.00  1.00  281.0  15.0  293.0  2.0  0  0.00  73.   996.   3 NAD-SFC NoSubs
 9  6 20 171  4   -3.4  0.095 -9.000 -9.000 -999.   70.     22.4  0.2160  0.52  1.00  1.00  281.0  15.0  292.5  2.0  0  0.00  73.   996.   4 NAD-SFC NoSubs
 9  6 20 171  5   -3.4  0.095 -9.000 -9.000 -999.   70.     22.4  0.2160  0.52  1.00  1.00  288.0  15.0  291.9  2.0  0  0.00  73.   996.   4 NAD-SFC NoSubs
 9  6 20 171  6   -0.2  0.047 -9.000 -9.000 -999.   25.     51.7  0.2720  0.52  0.45  0.50  321.0  15.0  291.8  2.0  0  0.00  73.   997.   4 NAD-SFC NoSubs
 9  6 20 171  7   41.9  0.203  0.775  0.007  394.  219.    -17.7  0.2930  0.52  0.27  1.50  337.0  15.0  292.6  2.0  0  0.00  64.   997.   4 NAD-SFC NoSubs
 9  6 20 171  8   85.6  0.168  1.062  0.007  498.  166.     -4.9  0.2930  0.52  0.22  1.00  340.0  15.0  293.6  2.0  0  0.00  61.   997.   4 NAD-SFC NoSubs
 9  6 20 171  9  123.6  0.114  1.290  0.007  618.   93.     -1.1  0.2720  0.52  0.20  0.50  321.0  15.0  294.8  2.0  0  0.00  58.   997.   4 NAD-SFC NoSubs
 9  6 20 171 10  154.2  0.118  1.486  0.007  758.   97.     -1.0  0.2720  0.52  0.19  0.50  312.0  15.0  296.4  2.0  0  0.00  54.   997.   4 NAD-SFC NoSubs
 9  6 20 171 11  177.7  0.120  1.651  0.006  900.  100.     -1.0  0.2720  0.52  0.19  0.50  323.0  15.0  297.8  2.0  0  0.00  50.   996.   3 NAD-SFC NoSubs
 9  6 20 171 12  188.3  0.186  1.761  0.006 1032.  192.     -3.0  0.2930  0.52  0.19  1.00  340.0  15.0  298.9  2.0  0  0.00  48.   995.   3 NAD-SFC NoSubs
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 9  6 20 171 13  188.6  0.298  1.827  0.005 1149.  391.    -12.5  0.2930  0.52  0.19  2.10  346.0  15.0  299.9  2.0   0  0.00  45.  995.   3 NAD-SFC NoSubs
 9  6 20 171 14  178.4  0.344  1.844  0.005 1250.  485.    -20.3  0.2930  0.52  0.19  2.60  347.0  15.0  300.6  2.0   0  0.00  42.  995.   3 NAD-SFC NoSubs
 9  6 20 171 15  157.1  0.432  1.807  0.005 1333.  682.    -45.6  0.2930  0.52  0.19  3.60  354.0  15.0  301.0  2.0   0  0.00  40.  994.   3 NAD-SFC NoSubs
 9  6 20 171 16  126.2  0.517  1.713  0.005 1414.  891.    -96.9  0.2930  0.52  0.20  4.60  356.0  15.0  301.0  2.0   0  0.00  40.  994.   3 NAD-SFC NoSubs
 9  6 20 171 17   87.3  0.460  1.534  0.006 1468.  752.    -98.8  0.2930  0.52  0.22  4.10  358.0  15.0  300.8  2.0   0  0.00  43.  994.   3 NAD-SFC NoSubs
 9  6 20 171 18   42.7  0.350  1.215  0.006 1492.  507.    -89.4  0.2930  0.52  0.28  3.10  351.0  15.0  300.1  2.0   0  0.00  52.  995.   3 NAD-SFC NoSubs
 9  6 20 171 19   -1.9  0.373 -9.000 -9.000 -999.  547.   2377.9  0.2930  0.52  0.46  3.60  336.0  15.0  299.0  2.0   0  0.00  56.  995.   3 NAD-SFC NoSubs
 9  6 20 171 20  -40.1  0.397 -9.000 -9.000 -999.  601.    139.0  0.2720  0.52  1.00  4.10  326.0  15.0  296.9  2.0   0  0.00  62.  996.   3 NAD-SFC NoSubs
 9  6 20 171 21  -40.2  0.397 -9.000 -9.000 -999.  601.    138.4  0.2720  0.52  1.00  4.10  328.0  15.0  295.5  2.0   0  0.00  67.  996.   3 NAD-SFC NoSubs
 9  6 20 171 22  -35.2  0.347 -9.000 -9.000 -999.  492.    105.2  0.2720  0.52  1.00  3.60  311.0  15.0  294.8  2.0   0  0.00  69.  996.   3 NAD-SFC NoSubs
 9  6 20 171 23  -38.1  0.373 -9.000 -9.000 -999.  546.    120.9  0.2160  0.52  1.00  4.10  286.0  15.0  293.4  2.0   0  0.00  74.  997.   3 NAD-SFC NoSubs
 9  6 20 171 24  -33.4  0.325 -9.000 -9.000 -999.  447.     91.6  0.2160  0.52  1.00  3.60  296.0  15.0  291.8  2.0   0  0.00  77.  997.   3 NAD-SFC NoSubs
 9  6 21 172  1  -35.8  0.347 -9.000 -9.000 -999.  490.    103.8  0.2720  0.52  1.00  3.60  307.0  15.0  290.9  2.0   0  0.00  77.  998.   3 NAD-SFC NoSubs
 9  6 21 172  2  -30.7  0.297 -9.000 -9.000 -999.  389.     75.7  0.2720  0.52  1.00  3.10  310.0  15.0  290.2  2.0   0  0.00  78.  998.   3 NAD-SFC NoSubs
 9  6 21 172  3  -21.7  0.231 -9.000 -9.000 -999.  268.     50.6  0.2160  0.52  1.00  2.60  297.0  15.0  289.8  2.0   0  0.00  79.  998.   4 NAD-SFC NoSubs
 9  6 21 172  4  -13.9  0.183 -9.000 -9.000 -999.  189.     39.5  0.2160  0.52  1.00  2.10  274.0  15.0  289.6  2.0   0  0.00  78.  999.   4 NAD-SFC NoSubs
 9  6 21 172  5  -12.7  0.173 -9.000 -9.000 -999.  173.     36.5  0.1750  0.52  1.00  2.10  262.0  15.0  289.5  2.0   0  0.00  78.  999.   4 NAD-SFC NoSubs
 9  6 21 172  6   -0.4  0.189 -9.000 -9.000 -999.  198.   1470.2  0.1750  0.52  0.45  2.10  267.0  15.0  289.5  2.0   0  0.00  77. 1000.   5 NAD-SFC NoSubs
 9  6 21 172  7   38.3  0.188  0.763  0.007  413.  196.    -15.5  0.2160  0.52  0.27  1.50  276.0  15.0  289.8  2.0   0  0.00  75. 1001.   6 NAD-SFC NoSubs
 9  6 21 172  8   69.5  0.213  0.986  0.007  492.  236.    -12.5  0.2930  0.52  0.22  1.50  339.0  15.0  290.2  2.0   0  0.00  67. 1001.   7 NAD-SFC NoSubs
 9  6 21 172  9  100.3 -9.000 -9.000 -9.000  590. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  291.9  2.0   0  0.00  61. 1001.   7 NAD-SFC NoSubs
 9  6 21 172 10  104.1 -9.000 -9.000 -9.000  684. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  293.4  2.0   0  0.00  56. 1001.   8 NAD-SFC NoSubs
 9  6 21 172 11  168.4 -9.000 -9.000 -9.000  847. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  294.8  2.0   0  0.00  51. 1001.   5 NAD-SFC NoSubs
 9  6 21 172 12  184.5  0.182  1.728  0.005 1000.  187.    -2.9  0.2720  0.52  0.19  1.00  316.0  15.0  295.9  2.0   0  0.00  46. 1000.   4 NAD-SFC NoSubs
 9  6 21 172 13  187.4  0.293  1.818  0.005 1145.  381.    -12.0  0.2720  0.52  0.19  2.10  328.0  15.0  296.9  2.0   0  0.00  42.  999.   3 NAD-SFC NoSubs
 9  6 21 172 14  177.1  0.390  1.846  0.005 1267.  584.    -29.8  0.2930  0.52  0.19  3.10  335.0  15.0  297.5  2.0   0  0.00  39.  999.   3 NAD-SFC NoSubs
 9  6 21 172 15  155.9  0.432  1.819  0.005 1378.  681.    -46.0  0.2930  0.52  0.19  3.60  341.0  15.0  297.9  2.0   0  0.00  37.  998.   3 NAD-SFC NoSubs
 9  6 21 172 16  125.1  0.470  1.732  0.005 1481.  773.    -74.0  0.2930  0.52  0.20  4.10  342.0  15.0  298.0  2.0   0  0.00  37.  998.   3 NAD-SFC NoSubs
 9  6 21 172 17   86.2  0.506  1.552  0.005 1547.  864.   -134.0  0.2930  0.52  0.22  4.60  351.0  15.0  297.8  2.0   0  0.00  39.  998.   3 NAD-SFC NoSubs
 9  6 21 172 18   41.6  0.304  1.226  0.005 1576.  439.    -60.0  0.2930  0.52  0.28  2.60  348.0  15.0  297.2  2.0   0  0.00  51.  998.   3 NAD-SFC NoSubs
 9  6 21 172 19   -4.5  0.370 -9.000 -9.000 -999.  540.    994.5  0.2930  0.52  0.46  3.60  348.0  15.0  296.2  2.0   0  0.00  55.  998.   3 NAD-SFC NoSubs
 9  6 21 172 20  -36.1  0.355 -9.000 -9.000 -999.  507.    109.9  0.2930  0.52  1.00  3.60  340.0  15.0  294.8  2.0   0  0.00  59.  998.   3 NAD-SFC NoSubs
 9  6 21 172 21  -30.3  0.297 -9.000 -9.000 -999.  390.     76.7  0.2720  0.52  1.00  3.10  327.0  15.0  293.9  2.0   0  0.00  61.  998.   3 NAD-SFC NoSubs
 9  6 21 172 22  -31.0  0.303 -9.000 -9.000 -999.  401.     80.0  0.2930  0.52  1.00  3.10  331.0  15.0  293.2  2.0   0  0.00  63.  998.   3 NAD-SFC NoSubs
 9  6 21 172 23  -15.7  0.196 -9.000 -9.000 -999.  213.     42.5  0.2720  0.52  1.00  2.10  318.0  15.0  292.5  2.0   0  0.00  65.  999.   3 NAD-SFC NoSubs
 9  6 21 172 24   -1.6  0.083 -9.000 -9.000 -999.   67.     31.7  0.2930  0.52  1.00  0.50  348.0  15.0  291.6  2.0   0  0.00  69.  998.   3 NAD-SFC NoSubs
 9  6 22 173  1   -1.5  0.082 -9.000 -9.000 -999.   56.     31.5  0.2470  0.52  1.00  0.50   57.0  15.0  290.6  2.0   0  0.00  73.  998.   3 NAD-SFC NoSubs
 9  6 22 173  2   -3.8  0.100 -9.000 -9.000 -999.   76.     23.3  0.2720  0.52  1.00  1.00  322.0  15.0  289.8  2.0   0  0.00  76.  999.   3 NAD-SFC NoSubs
 9  6 22 173  3   -8.2  0.140 -9.000 -9.000 -999.  125.     29.8  0.2930  0.52  1.00  1.50  335.0  15.0  289.2  2.0   0  0.00  78.  999.   3 NAD-SFC NoSubs
 9  6 22 173  4   -8.2  0.140 -9.000 -9.000 -999.  125.     29.8  0.2930  0.52  1.00  1.50  331.0  15.0  288.8  2.0   0  0.00  80.  999.   3 NAD-SFC NoSubs
 9  6 22 173  5   -7.9  0.137 -9.000 -9.000 -999.  121.     28.9  0.2720  0.52  1.00  1.50  328.0  15.0  288.2  2.0   0  0.00  82.  999.   3 NAD-SFC NoSubs
 9  6 22 173  6   -3.0  0.144 -9.000 -9.000 -999.  131.     89.9  0.2720  0.52  0.45  1.50  324.0  15.0  288.2  2.0   0  0.00  82.  999.   3 NAD-SFC NoSubs
 9  6 22 173  7   40.4  0.202  0.573  0.005  166.  218.    -18.2  0.2930  0.52  0.27  1.50  333.0  15.0  289.9  2.0   0  0.00  73. 1000.   3 NAD-SFC NoSubs
 9  6 22 173  8   85.3  0.109  0.945  0.005  352.   90.     -1.3  0.2720  0.52  0.22  0.50  304.0  15.0  291.9  2.0   0  0.00  65.  999.   3 NAD-SFC NoSubs
 9  6 22 173  9  124.0 -9.000 -9.000 -9.000  650. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  293.5  2.0   0  0.00  58.  999.   2 NAD-SFC NoSubs
 9  6 22 173 10  155.5 -9.000 -9.000 -9.000  983. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  295.2  2.0   0  0.00  51.  999.   2 NAD-SFC NoSubs
 9  6 22 173 11  177.5 -9.000 -9.000 -9.000 1070. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  297.0  2.0   0  0.00  44.  998.   2 NAD-SFC NoSubs
 9  6 22 173 12  188.4 -9.000 -9.000 -9.000 1156. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  298.4  2.0   0  0.00  40.  997.   2 NAD-SFC NoSubs
 9  6 22 173 13  188.8 -9.000 -9.000 -9.000 1237. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  299.8  2.0   0  0.00  36.  996.   2 NAD-SFC NoSubs
 9  6 22 173 14  178.7 -9.000 -9.000 -9.000 1309. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  300.8  2.0   0  0.00  33.  995.   2 NAD-SFC NoSubs
 9  6 22 173 15  157.4  0.120  1.817  0.014 1356.  100.     -1.0  0.2930  0.52  0.19  0.50  345.0  15.0  301.2  2.0   0  0.00  31.  995.   2 NAD-SFC NoSubs
 9  6 22 173 16  126.5  0.228  1.701  0.013 1383.  262.     -8.3  0.2930  0.52  0.20  1.50  344.0  15.0  301.6  2.0   0  0.00  31.  994.   2 NAD-SFC NoSubs
 9  6 22 173 17   87.3  0.276  1.510  0.013 1400.  348.    -21.4  0.2930  0.52  0.22  2.10  350.0  15.0  301.5  2.0   0  0.00  32.  994.   2 NAD-SFC NoSubs
 9  6 22 173 18   42.2  0.304  1.187  0.013 1408.  403.    -59.2  0.2930  0.52  0.28  2.60  347.0  15.0  300.8  2.0   0  0.00  42.  994.   2 NAD-SFC NoSubs
 9  6 22 173 19   -3.5  0.318 -9.000 -9.000 -999.  430.    802.9  0.2940  0.52  0.46  3.10    3.0  15.0  299.9  2.0   0  0.00  45.  995.   2 NAD-SFC NoSubs
 9  6 22 173 20  -25.3  0.252 -9.000 -9.000 -999.  305.     55.9  0.2930  0.52  1.00  2.60  347.0  15.0  298.8  2.0   0  0.00  47.  995.   2 NAD-SFC NoSubs
 9  6 22 173 21  -43.5  0.420 -9.000 -9.000 -999.  653.    151.1  0.2160  0.52  1.00  4.60  279.0  15.0  296.4  2.0   0  0.00  55.  996.   2 NAD-SFC NoSubs
 9  6 22 173 22  -44.0  0.420 -9.000 -9.000 -999.  653.    149.3  0.2160  0.52  1.00  4.60  272.0  15.0  292.9  2.0   0  0.00  72.  996.   2 NAD-SFC NoSubs
 9  6 22 173 23  -34.3  0.325 -9.000 -9.000 -999.  451.     89.2  0.2160  0.52  1.00  3.60  274.0  15.0  291.8  2.0   0  0.00  76.  996.   2 NAD-SFC NoSubs
 9  6 22 173 24  -13.0  0.173 -9.000 -9.000 -999.  190.     35.3  0.1750  0.52  1.00  2.10  268.0  15.0  291.2  2.0   0  0.00  75.  996.   2 NAD-SFC NoSubs
 9  6 23 174  1   -1.5  0.080 -9.000 -9.000 -999.   61.     31.2  0.1950  0.52  1.00  0.50  225.0  15.0  291.1  2.0   0  0.00  75.  996.   2 NAD-SFC NoSubs
 9  6 23 174  2   -3.4  0.095 -9.000 -9.000 -999.   70.     22.0  0.1900  0.52  1.00  1.00  192.0  15.0  291.0  2.0   0  0.00  74.  996.   2 NAD-SFC NoSubs
 9  6 23 174  3   -3.4  0.095 -9.000 -9.000 -999.   70.     22.0  0.1900  0.52  1.00  1.00  197.0  15.0  290.8  2.0   0  0.00  75.  997.   2 NAD-SFC NoSubs
 9  6 23 174  4   -6.9  0.126 -9.000 -9.000 -999.  107.     25.6  0.1950  0.52  1.00  1.50  213.0  15.0  290.2  2.0   0  0.00  76.  997.   2 NAD-SFC NoSubs
 9  6 23 174  5   -6.9  0.126 -9.000 -9.000 -999.  107.     25.6  0.1950  0.52  1.00  1.50  220.0  15.0  289.8  2.0   0  0.00  79.  997.   2 NAD-SFC NoSubs
 9  6 23 174  6   -3.6  0.130 -9.000 -9.000 -999.  113.     55.0  0.1950  0.52  0.46  1.50  218.0  15.0  289.6  2.0   0  0.00  79.  997.   2 NAD-SFC NoSubs
 9  6 23 174  7   39.8  0.098  0.526  0.009  130.   74.     -2.1  0.2720  0.52  0.27  0.50  302.0  15.0  292.0  2.0   0  0.00  66.  998.   2 NAD-SFC NoSubs
 9  6 23 174  8   85.1 -9.000 -9.000 -9.000  281. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  294.0  2.0   0  0.00  59.  997.   2 NAD-SFC NoSubs
 9  6 23 174  9  124.8 -9.000 -9.000 -9.000  444. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  296.0  2.0   0  0.00  53.  997.   2 NAD-SFC NoSubs
 9  6 23 174 10  156.5 -9.000 -9.000 -9.000  651. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  298.1  2.0   0  0.00  46.  997.   2 NAD-SFC NoSubs
 9  6 23 174 11  178.7 -9.000 -9.000 -9.000  858. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  299.9  2.0   0  0.00  39.  996.   2 NAD-SFC NoSubs
 9  6 23 174 12  189.7 -9.000 -9.000 -9.000 1007. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.4  2.0   0  0.00  34.  996.   2 NAD-SFC NoSubs
 9  6 23 174 13  190.3 -9.000 -9.000 -9.000 1093. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  302.8  2.0   0  0.00  31.  995.   2 NAD-SFC NoSubs
 9  6 23 174 14  180.2  0.120  1.810  0.008 1169.  100.     -1.0  0.2720  0.52  0.19  0.50  310.0  15.0  303.8  2.0   0  0.00  28.  995.   2 NAD-SFC NoSubs
 9  6 23 174 15  159.1  0.113  1.768  0.008 1233.   91.     -1.0  0.2160  0.52  0.19  0.50  298.0  15.0  304.5  2.0   0  0.00  26.  994.   2 NAD-SFC NoSubs
 9  6 23 174 16  128.3  0.174  1.667  0.007 1282.  175.     -3.7  0.2720  0.52  0.20  1.00  313.0  15.0  305.0  2.0   0  0.00  26.  994.   2 NAD-SFC NoSubs
 9  6 23 174 17   89.2  0.220  1.489  0.007 1314.  247.    -10.6  0.2930  0.52  0.22  1.50  352.0  15.0  304.9  2.0   0  0.00  27.  994.   2 NAD-SFC NoSubs
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 9   6 23 174 18   44.0  0.305  1.181  0.007 1328.  405.    -57.5  0.2940  0.52  0.28   2.60   11.0  15.0 304.0  2.0   0  0.00  37.   994.    2 NAD-SFC NoSubs
 9   6 23 174 19   -0.1  0.376 -9.000 -9.000 -999.  552.   8888.0  0.2930  0.52  0.46   3.60  354.0  15.0 302.8  2.0   0  0.00  42.   995.    2 NAD-SFC NoSubs
 9   6 23 174 20  -51.1  0.498 -9.000 -9.000 -999.  844.    215.2  0.2720  0.52  1.00   5.10  303.0  15.0 299.6  2.0   0  0.00  53.   996.    2 NAD-SFC NoSubs
 9   6 23 174 21  -38.7  0.373 -9.000 -9.000 -999.  558.    118.8  0.2160  0.52  1.00   4.10  278.0  15.0 296.0  2.0   0  0.00  68.   996.    2 NAD-SFC NoSubs
 9   6 23 174 22  -38.9  0.373 -9.000 -9.000 -999.  546.    118.0  0.2160  0.52  1.00   4.10  281.0  15.0 294.2  2.0   0  0.00  71.   997.    2 NAD-SFC NoSubs
 9   6 23 174 23  -34.1  0.325 -9.000 -9.000 -999.  447.     89.7  0.2160  0.52  1.00   3.60  281.0  15.0 293.2  2.0   0  0.00  73.   997.    2 NAD-SFC NoSubs
 9   6 23 174 24  -29.2  0.278 -9.000 -9.000 -999.  353.     65.4  0.2160  0.52  1.00   3.10  298.0  15.0 292.6  2.0   0  0.00  73.   998.    2 NAD-SFC NoSubs
 9   6 24 175  1  -16.5  0.200 -9.000 -9.000 -999.  217.     43.1  0.2930  0.52  1.00   2.10  354.0  15.0 292.1  2.0   0  0.00  73.   998.    2 NAD-SFC NoSubs
 9   6 24 175  2  -32.1  0.303 -9.000 -9.000 -999.  401.     77.5  0.2940  0.52  1.00   3.10   18.0  15.0 291.5  2.0   0  0.00  75.   999.    2 NAD-SFC NoSubs
 9   6 24 175  3  -32.1  0.303 -9.000 -9.000 -999.  401.     77.3  0.2940  0.52  1.00   3.10   12.0  15.0 290.8  2.0   0  0.00  78.   999.    2 NAD-SFC NoSubs
 9   6 24 175  4  -25.8  0.252 -9.000 -9.000 -999.  304.     55.1  0.2940  0.52  1.00   2.60    1.0  15.0 290.1  2.0   0  0.00  79.  1000.    2 NAD-SFC NoSubs
 9   6 24 175  5   -8.3  0.140 -9.000 -9.000 -999.  132.     29.4  0.2930  0.52  1.00   1.50  343.0  15.0 289.8  2.0   0  0.00  79.  1000.    2 NAD-SFC NoSubs
 9   6 24 175  6   -1.8  0.092 -9.000 -9.000 -999.   68.     38.1  0.2720  0.52  0.46   1.00  317.0  15.0 289.9  2.0   0  0.00  77.  1001.    2 NAD-SFC NoSubs
 9   6 24 175  7   39.7  0.189  0.523  0.009  129.  197.    -15.1  0.2160  0.52  0.27   1.50  295.0  15.0 292.4  2.0   0  0.00  64.  1001.    2 NAD-SFC NoSubs
 9   6 24 175  8   85.1 -9.000 -9.000 -9.000  238. -999. -99999.0  0.2235  0.52  0.22   0.00    0.0  15.0 294.5  2.0   0  0.00  57.  1001.    2 NAD-SFC NoSubs
 9   6 24 175  9  124.7 -9.000 -9.000 -9.000  372. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0 296.2  2.0   0  0.00  51.  1001.    2 NAD-SFC NoSubs
 9   6 24 175 10  156.5 -9.000 -9.000 -9.000  571. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0 298.2  2.0   0  0.00  46.  1001.    2 NAD-SFC NoSubs
 9   6 24 175 11  178.7 -9.000 -9.000 -9.000  763. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0 300.2  2.0   0  0.00  42.  1001.    2 NAD-SFC NoSubs
 9   6 24 175 12  189.9 -9.000 -9.000 -9.000  939. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0 301.9  2.0   0  0.00  37.  1000.    2 NAD-SFC NoSubs
 9   6 24 175 13  190.5  0.121  1.771  0.009 1041.  101.    -1.0  0.2720  0.52  0.19   0.50  317.0  15.0 303.2  2.0   0  0.00  33.   999.    2 NAD-SFC NoSubs
 9   6 24 175 14  180.7  0.185  1.783  0.009 1119.  191.    -3.1  0.2930  0.52  0.19   1.00  354.0  15.0 304.4  2.0   0  0.00  30.   998.    2 NAD-SFC NoSubs
 9   6 24 175 15  159.5  0.235  1.743  0.009 1183.  273.    -7.2  0.2940  0.52  0.19   1.50    9.0  15.0 305.0  2.0   0  0.00  28.   998.    2 NAD-SFC NoSubs
 9   6 24 175 16  128.8  0.334  1.646  0.009 1234.  462.   -25.6  0.2940  0.52  0.20   2.60    6.0  15.0 305.8  2.0   0  0.00  27.   997.    2 NAD-SFC NoSubs
 9   6 24 175 17   89.4  0.323  1.470  0.009 1265.  441.   -33.5  0.2940  0.52  0.22   2.60   18.0  15.0 305.1  2.0   0  0.00  35.   997.    2 NAD-SFC NoSubs
 9   6 24 175 18   44.2  0.351  1.167  0.009 1279.  500.   -87.2  0.2940  0.52  0.28   3.10   19.0  15.0 304.2  2.0   0  0.00  44.   997.    2 NAD-SFC NoSubs
 9   6 24 175 19    0.5  0.316  0.260  0.009 1278.  427. -5735.0  0.2930  0.52  0.46   3.10  346.0  15.0 303.5  2.0   0  0.00  45.   998.    2 NAD-SFC NoSubs
 9   6 24 175 20  -53.9  0.525 -9.000 -9.000 -999.  913.    239.5  0.2160  0.52  1.00   5.70  289.0  15.0 300.4  2.0   0  0.00  54.   999.    2 NAD-SFC NoSubs
 9   6 24 175 21  -54.7  0.525 -9.000 -9.000 -999.  913.    235.8  0.2160  0.52  1.00   5.70  271.0  15.0 295.9  2.0   0  0.00  69.   999.    2 NAD-SFC NoSubs
 9   6 24 175 22  -41.7  0.398 -9.000 -9.000 -999.  616.    134.6  0.1750  0.52  1.00   4.60  268.0  15.0 294.2  2.0   0  0.00  73.  1000.    2 NAD-SFC NoSubs
 9   6 24 175 23  -34.2  0.325 -9.000 -9.000 -999.  449.     89.6  0.2160  0.52  1.00   3.60  276.0  15.0 293.1  2.0   0  0.00  75.  1000.    2 NAD-SFC NoSubs
 9   6 24 175 24   -8.2  0.140 -9.000 -9.000 -999.  160.     29.6  0.2930  0.52  1.00   1.50  343.0  15.0 292.6  2.0   0  0.00  75.  1001.    2 NAD-SFC NoSubs
 9   6 25 176  1  -29.7  0.289 -9.000 -9.000 -999.  372.     72.2  0.2470  0.52  1.00   3.10   53.0  15.0 292.2  2.0   0  0.00  76.  1002.    3 NAD-SFC NoSubs
 9   6 25 176  2  -29.8  0.289 -9.000 -9.000 -999.  372.     72.1  0.2470  0.52  1.00   3.10   48.0  15.0 291.8  2.0   0  0.00  79.  1003.    3 NAD-SFC NoSubs
 9   6 25 176  3   -7.5  0.133 -9.000 -9.000 -999.  136.     28.1  0.2470  0.52  1.00   1.50   37.0  15.0 291.2  2.0   0  0.00  79.  1003.    3 NAD-SFC NoSubs
 9   6 25 176  4   -8.2  0.140 -9.000 -9.000 -999.  126.     29.9  0.2940  0.52  1.00   1.50   19.0  15.0 290.8  2.0   0  0.00  80.  1003.    3 NAD-SFC NoSubs
 9   6 25 176  5   -4.0  0.102 -9.000 -9.000 -999.   78.     23.7  0.2940  0.52  1.00   1.00    7.0  15.0 290.2  2.0   0  0.00  81.  1003.    3 NAD-SFC NoSubs
 9   6 25 176  6   -1.9  0.092 -9.000 -9.000 -999.   67.     37.9  0.2720  0.52  0.46   1.00  326.0  15.0 290.4  2.0   0  0.00  79.  1004.    2 NAD-SFC NoSubs
 9   6 25 176  7   39.4  0.143  0.574  0.011  172.  130.     -6.7  0.2160  0.52  0.28   1.00  299.0  15.0 292.1  2.0   0  0.00  69.  1004.    2 NAD-SFC NoSubs
 9   6 25 176  8   84.8 -9.000 -9.000 -9.000  289. -999. -99999.0  0.2235  0.52  0.22   0.00    0.0  15.0 294.0  2.0   0  0.00  61.  1003.    2 NAD-SFC NoSubs
 9   6 25 176  9  124.4 -9.000 -9.000 -9.000  412. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0 295.8  2.0   0  0.00  57.  1003.    2 NAD-SFC NoSubs
 9   6 25 176 10  156.2 -9.000 -9.000 -9.000  555. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0 297.8  2.0   0  0.00  51.  1002.    2 NAD-SFC NoSubs
 9   6 25 176 11  178.3 -9.000 -9.000 -9.000  688. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0 299.4  2.0   0  0.00  47.  1001.    2 NAD-SFC NoSubs
 9   6 25 176 12  189.6 -9.000 -9.000 -9.000  820. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0 301.2  2.0   0  0.00  42.  1000.    2 NAD-SFC NoSubs
 9   6 25 176 13  190.3 -9.000 -9.000 -9.000  934. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0 302.8  2.0   0  0.00  37.   999.    2 NAD-SFC NoSubs
 9   6 25 176 14  180.3  0.120  1.741  0.008 1044.  100.    -1.0  0.2720  0.52  0.19   0.50  309.0  15.0 303.8  2.0   0  0.00  33.   999.    2 NAD-SFC NoSubs
 9   6 25 176 15  159.2  0.179  1.721  0.009 1141.  181.    -3.2  0.2720  0.52  0.19   1.00  326.0  15.0 304.4  2.0   0  0.00  31.   998.    2 NAD-SFC NoSubs
 9   6 25 176 16  128.4  0.287  1.635  0.009 1213.  368.   -16.3  0.2930  0.52  0.20   2.10  346.0  15.0 304.8  2.0   0  0.00  30.   997.    2 NAD-SFC NoSubs
 9   6 25 176 17   89.2 -9.000 -9.000 -9.000 1259. -999. -99999.0  0.2235  0.52  0.22   0.00    0.0  15.0 304.4  2.0   0  0.00  34.   997.    2 NAD-SFC NoSubs
 9   6 25 176 18   44.2 -9.000 -9.000 -9.000 1279. -999. -99999.0  0.2235  0.52  0.28   0.00    0.0  15.0 303.9  2.0   0  0.00  44.   998.    2 NAD-SFC NoSubs
 9   6 25 176 19    1.5  0.435  0.381  0.010 1276.  689.  -4759.4  0.2160  0.52  0.46   4.60  296.0  15.0 302.4  2.0   0  0.00  50.   998.    3 NAD-SFC NoSubs
 9   6 25 176 20  -44.8  0.443 -9.000 -9.000 -999.  708.    173.3  0.1750  0.52  1.00   5.10  269.0  15.0 297.4  2.0   0  0.00  66.   999.    3 NAD-SFC NoSubs
 9   6 25 176 21  -48.8  0.468 -9.000 -9.000 -999.  767.    186.4  0.2160  0.52  1.00   5.10  275.0  15.0 295.0  2.0   0  0.00  70.   999.    2 NAD-SFC NoSubs
 9   6 25 176 22  -44.1  0.420 -9.000 -9.000 -999.  655.    149.6  0.2160  0.52  1.00   4.60  272.0  15.0 293.5  2.0   0  0.00  73.  1000.    2 NAD-SFC NoSubs
 9   6 25 176 23  -33.4  0.325 -9.000 -9.000 -999.  451.     91.9  0.2160  0.52  1.00   3.60  271.0  15.0 292.5  2.0   0  0.00  76.  1000.    3 NAD-SFC NoSubs
 9   6 25 176 24   -3.8  0.100 -9.000 -9.000 -999.  152.     23.3  0.2720  0.52  1.00   1.00  302.0  15.0 292.0  2.0   0  0.00  76.  1000.    3 NAD-SFC NoSubs
 9   6 26 177  1   -3.9  0.102 -9.000 -9.000 -999.   78.     23.7  0.2940  0.52  1.00   1.00    2.0  15.0 291.6  2.0   0  0.00  76.  1000.    3 NAD-SFC NoSubs
 9   6 26 177  2   -4.0  0.102 -9.000 -9.000 -999.   78.     23.7  0.2940  0.52  1.00   1.00   15.0  15.0 291.1  2.0   0  0.00  77.  1001.    3 NAD-SFC NoSubs
 9   6 26 177  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0 290.8  2.0   0  0.00  77.  1001.    3 NAD-SFC NoSubs
 9   6 26 177  4   -1.6  0.083 -9.000 -9.000 -999.   58.     31.8  0.2940  0.52  1.00   0.50    5.0  15.0 290.4  2.0   0  0.00  77.  1001.    3 NAD-SFC NoSubs
 9   6 26 177  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0 290.2  2.0   0  0.00  77.  1001.    3 NAD-SFC NoSubs
 9   6 26 177  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.46   0.00    0.0  15.0 290.4  2.0   0  0.00  76.  1002.    3 NAD-SFC NoSubs
 9   6 26 177  7   39.2 -9.000 -9.000 -9.000  149. -999. -99999.0  0.2235  0.52  0.28   0.00    0.0  15.0 292.2  2.0   0  0.00  66.  1002.    2 NAD-SFC NoSubs
 9   6 26 177  8   84.6 -9.000 -9.000 -9.000  277. -999. -99999.0  0.2235  0.52  0.22   0.00    0.0  15.0 294.2  2.0   0  0.00  61.  1001.    2 NAD-SFC NoSubs
 9   6 26 177  9  124.3 -9.000 -9.000 -9.000  450. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0 295.9  2.0   0  0.00  59.  1001.    2 NAD-SFC NoSubs
 9   6 26 177 10  156.0 -9.000 -9.000 -9.000  678. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0 297.8  2.0   0  0.00  56.  1000.    2 NAD-SFC NoSubs
 9   6 26 177 11  178.3 -9.000 -9.000 -9.000  794. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0 299.5  2.0   0  0.00  51.  1000.    2 NAD-SFC NoSubs
 9   6 26 177 12  189.5 -9.000 -9.000 -9.000  902. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0 301.2  2.0   0  0.00  46.   999.    2 NAD-SFC NoSubs
 9   6 26 177 13  190.1 -9.000 -9.000 -9.000 1000. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0 302.4  2.0   0  0.00  42.   998.    2 NAD-SFC NoSubs
 9   6 26 177 14  180.1  0.122  1.765  0.009 1088.  103.    -1.0  0.2930  0.52  0.19   0.50  336.0  15.0 303.2  2.0   0  0.00  39.   998.    2 NAD-SFC NoSubs
 9   6 26 177 15  159.1  0.235  1.730  0.009 1160.  273.    -7.2  0.2940  0.52  0.19   1.50    2.0  15.0 303.9  2.0   0  0.00  37.   997.    2 NAD-SFC NoSubs
 9   6 26 177 16  128.2  0.333  1.635  0.009 1214.  462.   -25.7  0.2940  0.52  0.20   2.60   10.0  15.0 304.1  2.0   0  0.00  37.   997.    2 NAD-SFC NoSubs
 9   6 26 177 17   89.0  0.323  1.462  0.009 1250.  440.   -33.6  0.2940  0.52  0.22   2.60    8.0  15.0 303.9  2.0   0  0.00  39.   997.    2 NAD-SFC NoSubs
 9   6 26 177 18   44.1  0.259  1.162  0.009 1266.  319.   -35.2  0.2940  0.52  0.27   2.10    4.0  15.0 303.5  2.0   0  0.00  48.   998.    2 NAD-SFC NoSubs
 9   6 26 177 19    0.3  0.214  0.213  0.009 1265.  239.  -3241.5  0.2930  0.52  0.46   2.10  358.0  15.0 302.8  2.0   0  0.00  49.   998.    2 NAD-SFC NoSubs
 9   6 26 177 20   -8.1  0.140 -9.000 -9.000 -999.  127.    30.0  0.2930  0.52  1.00   1.50  347.0  15.0 301.5  2.0   0  0.00  52.   998.    2 NAD-SFC NoSubs
 9   6 26 177 21   -7.8  0.137 -9.000 -9.000 -999.  121.    29.1  0.2720  0.52  1.00   1.50  303.0  15.0 300.2  2.0   0  0.00  56.   999.    2 NAD-SFC NoSubs
 9   6 26 177 22  -33.6  0.325 -9.000 -9.000 -999.  445.    91.3  0.2160  0.52  1.00   3.60  280.0  15.0 298.2  2.0   0  0.00  64.   999.    2 NAD-SFC NoSubs
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9	6	26	177	23	-28.9	0.278	-9.000	-9.000	-999.	353.	66.3	0.2160	0.52	1.00	3.10	279.0	15.0	296.4	2.0	0	0.00	70.	999.	2	NAD-SFC	NoSubs
9	6	26	177	24	-22.1	0.231	-9.000	-9.000	-999.	267.	49.3	0.2160	0.52	1.00	2.60	293.0	15.0	295.5	2.0	0	0.00	73.	999.	2	NAD-SFC	NoSubs
9	6	27	178	1	-7.9	0.137	-9.000	-9.000	-999.	125.	28.9	0.2720	0.52	1.00	1.50	301.0	15.0	294.8	2.0	0	0.00	74.	999.	2	NAD-SFC	NoSubs
9	6	27	178	2	-4.0	0.102	-9.000	-9.000	-999.	78.	23.6	0.2930	0.52	1.00	1.00	355.0	15.0	294.2	2.0	0	0.00	76.	999.	2	NAD-SFC	NoSubs
9	6	27	178	3	-1.6	0.084	-9.000	-9.000	-999.	58.	31.9	0.2940	0.52	1.00	0.50	16.0	15.0	293.8	2.0	0	0.00	79.	1000.	2	NAD-SFC	NoSubs
9	6	27	178	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	293.2	2.0	0	0.00	82.	1000.	2	NAD-SFC	NoSubs
9	6	27	178	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	292.8	2.0	0	0.00	85.	1000.	2	NAD-SFC	NoSubs
9	6	27	178	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.46	0.00	0.0	15.0	292.6	2.0	0	0.00	85.	1001.	2	NAD-SFC	NoSubs
9	6	27	178	7	40.0	0.151	0.498	0.009	110.	141.	-7.6	0.2720	0.52	0.28	1.00	300.0	15.0	295.2	2.0	0	0.00	72.	1001.	2	NAD-SFC	NoSubs
9	6	27	178	8	85.5	0.103	0.826	0.007	235.	80.	-1.2	0.2160	0.52	0.22	0.50	292.0	15.0	297.2	2.0	0	0.00	67.	1001.	2	NAD-SFC	NoSubs
9	6	27	178	9	125.7	-9.000	-9.000	-9.000	418.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	299.8	2.0	0	0.00	56.	1001.	2	NAD-SFC	NoSubs
9	6	27	178	10	157.8	-9.000	-9.000	-9.000	658.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.9	2.0	0	0.00	45.	1001.	2	NAD-SFC	NoSubs
9	6	27	178	11	180.3	-9.000	-9.000	-9.000	807.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.9	2.0	0	0.00	37.	1000.	2	NAD-SFC	NoSubs
9	6	27	178	12	191.7	-9.000	-9.000	-9.000	940.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	305.6	2.0	0	0.00	32.	999.	2	NAD-SFC	NoSubs
9	6	27	178	13	192.6	-9.000	-9.000	-9.000	1023.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	307.1	2.0	0	0.00	29.	999.	2	NAD-SFC	NoSubs
9	6	27	178	14	182.9	0.123	1.773	0.009	1086.	103.	-1.0	0.2940	0.52	0.19	0.50	18.0	15.0	308.2	2.0	0	0.00	27.	998.	2	NAD-SFC	NoSubs
9	6	27	178	15	162.0	0.182	1.729	0.008	1138.	187.	-3.3	0.2940	0.52	0.19	1.00	12.0	15.0	308.9	2.0	0	0.00	26.	998.	2	NAD-SFC	NoSubs
9	6	27	178	16	131.0	0.334	1.631	0.008	1179.	463.	-25.3	0.2940	0.52	0.20	2.60	7.0	15.0	308.9	2.0	0	0.00	29.	997.	2	NAD-SFC	NoSubs
9	6	27	178	17	91.3	0.370	1.456	0.007	1204.	539.	-49.2	0.2940	0.52	0.22	3.10	17.0	15.0	307.8	2.0	0	0.00	41.	997.	2	NAD-SFC	NoSubs
9	6	27	178	18	45.9	0.399	1.162	0.007	1216.	603.	-122.6	0.2940	0.52	0.27	3.60	25.0	15.0	306.6	2.0	0	0.00	50.	997.	2	NAD-SFC	NoSubs
9	6	27	178	19	1.8	0.419	0.392	0.007	1214.	650.	-3715.7	0.2940	0.52	0.46	4.10	16.0	15.0	305.4	2.0	0	0.00	52.	998.	2	NAD-SFC	NoSubs
9	6	27	178	20	-40.2	0.397	-9.000	-9.000	-999.	602.	138.9	0.2720	0.52	1.00	4.10	302.0	15.0	304.4	2.0	0	0.00	52.	998.	2	NAD-SFC	NoSubs
9	6	27	178	21	-48.0	0.468	-9.000	-9.000	-999.	767.	189.8	0.2160	0.52	1.00	5.10	283.0	15.0	300.2	2.0	0	0.00	63.	999.	2	NAD-SFC	NoSubs
9	6	27	178	22	-43.3	0.420	-9.000	-9.000	-999.	655.	152.3	0.2160	0.52	1.00	4.60	288.0	15.0	298.6	2.0	0	0.00	63.	999.	2	NAD-SFC	NoSubs
9	6	27	178	23	-35.9	0.347	-9.000	-9.000	-999.	494.	103.5	0.2720	0.52	1.00	3.60	303.0	15.0	297.8	2.0	0	0.00	63.	999.	2	NAD-SFC	NoSubs
9	6	27	178	24	-16.3	0.200	-9.000	-9.000	-999.	230.	43.6	0.2930	0.52	1.00	2.10	335.0	15.0	297.4	2.0	0	0.00	62.	999.	2	NAD-SFC	NoSubs
9	6	28	179	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	297.0	2.0	0	0.00	62.	999.	2	NAD-SFC	NoSubs
9	6	28	179	2	-1.6	0.083	-9.000	-9.000	-999.	58.	31.8	0.2940	0.52	1.00	0.50	17.0	15.0	296.8	2.0	0	0.00	61.	1000.	2	NAD-SFC	NoSubs
9	6	28	179	3	-1.4	0.079	-9.000	-9.000	-999.	54.	31.0	0.1900	0.52	1.00	0.50	186.0	15.0	296.2	2.0	0	0.00	61.	1000.	2	NAD-SFC	NoSubs
9	6	28	179	4	-3.4	0.094	-9.000	-9.000	-999.	69.	21.8	0.1810	0.52	1.00	1.00	165.0	15.0	295.5	2.0	0	0.00	64.	1000.	2	NAD-SFC	NoSubs
9	6	28	179	5	-1.4	0.079	-9.000	-9.000	-999.	53.	30.9	0.1810	0.52	1.00	0.50	162.0	15.0	294.9	2.0	0	0.00	67.	1000.	2	NAD-SFC	NoSubs
9	6	28	179	6	-0.4	0.046	-9.000	-9.000	-999.	24.	21.7	0.1810	0.52	0.46	0.50	178.0	15.0	294.9	2.0	0	0.00	67.	1001.	2	NAD-SFC	NoSubs
9	6	28	179	7	40.5	0.138	0.516	0.011	121.	122.	-5.7	0.1750	0.52	0.28	1.00	247.0	15.0	297.2	2.0	0	0.00	58.	1001.	2	NAD-SFC	NoSubs
9	6	28	179	8	86.2	0.099	0.858	0.009	262.	75.	-1.0	0.1750	0.52	0.22	0.50	249.0	15.0	299.2	2.0	0	0.00	52.	1000.	2	NAD-SFC	NoSubs
9	6	28	179	9	126.4	0.106	1.120	0.008	396.	83.	-1.0	0.1950	0.52	0.20	0.50	234.0	15.0	301.6	2.0	0	0.00	46.	1000.	2	NAD-SFC	NoSubs
9	6	28	179	10	158.6	-9.000	-9.000	-9.000	582.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.9	2.0	0	0.00	39.	999.	2	NAD-SFC	NoSubs
9	6	28	179	11	181.2	-9.000	-9.000	-9.000	733.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	305.8	2.0	0	0.00	34.	999.	2	NAD-SFC	NoSubs
9	6	28	179	12	192.6	-9.000	-9.000	-9.000	862.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	307.2	2.0	0	0.00	31.	998.	2	NAD-SFC	NoSubs
9	6	28	179	13	193.6	-9.000	-9.000	-9.000	976.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	308.8	2.0	0	0.00	28.	997.	2	NAD-SFC	NoSubs
9	6	28	179	14	183.9	-9.000	-9.000	-9.000	1073.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	309.8	2.0	0	0.00	26.	996.	2	NAD-SFC	NoSubs
9	6	28	179	15	163.1	0.176	1.741	0.006	1152.	177.	-2.9	0.2470	0.52	0.19	1.00	35.0	15.0	310.5	2.0	0	0.00	24.	996.	2	NAD-SFC	NoSubs
9	6	28	179	16	132.0	0.277	1.651	0.005	1212.	350.	-14.3	0.2470	0.52	0.20	2.10	42.0	15.0	310.4	2.0	0	0.00	26.	995.	2	NAD-SFC	NoSubs
9	6	28	179	17	92.5	0.312	1.482	0.005	1250.	418.	-29.1	0.2470	0.52	0.22	2.60	36.0	15.0	309.6	2.0	0	0.00	36.	995.	2	NAD-SFC	NoSubs
9	6	28	179	18	47.7	0.307	1.195	0.005	1270.	408.	-53.9	0.2930	0.52	0.27	2.60	332.0	15.0	309.4	2.0	0	0.00	39.	995.	2	NAD-SFC	NoSubs
9	6	28	179	19	2.4	0.510	0.443	0.005	1264.	875.	-4846.0	0.2720	0.52	0.46	5.10	305.0	15.0	306.5	2.0	0	0.00	48.	996.	2	NAD-SFC	NoSubs
9	6	28	179	20	-42.7	0.420	-9.000	-9.000	-999.	660.	154.4	0.2160	0.52	1.00	4.60	294.0	15.0	302.6	2.0	0	0.00	57.	996.	2	NAD-SFC	NoSubs
9	6	28	179	21	-38.2	0.373	-9.000	-9.000	-999.	548.	120.4	0.2160	0.52	1.00	4.10	276.0	15.0	300.0	2.0	0	0.00	60.	996.	2	NAD-SFC	NoSubs
9	6	28	179	22	-28.6	0.278	-9.000	-9.000	-999.	357.	66.8	0.2160	0.52	1.00	3.10	294.0	15.0	298.8	2.0	0	0.00	59.	996.	2	NAD-SFC	NoSubs
9	6	28	179	23	-8.1	0.140	-9.000	-9.000	-999.	139.	29.9	0.2930	0.52	1.00	1.50	342.0	15.0	298.2	2.0	0	0.00	57.	996.	2	NAD-SFC	NoSubs
9	6	28	179	24	-25.4	0.252	-9.000	-9.000	-999.	303.	55.9	0.2940	0.52	1.00	2.60	28.0	15.0	297.6	2.0	0	0.00	57.	996.	2	NAD-SFC	NoSubs
9	6	29	180	1	-40.0	0.386	-9.000	-9.000	-999.	576.	128.1	0.2470	0.52	1.00	4.10	46.0	15.0	296.8	2.0	0	0.00	61.	997.	2	NAD-SFC	NoSubs
9	6	29	180	2	-30.0	0.288	-9.000	-9.000	-999.	377.	71.2	0.2470	0.52	1.00	3.10	39.0	15.0	295.9	2.0	0	0.00	62.	997.	2	NAD-SFC	NoSubs
9	6	29	180	3	-23.5	0.239	-9.000	-9.000	-999.	282.	51.9	0.2470	0.52	1.00	2.60	32.0	15.0	295.4	2.0	0	0.00	62.	997.	2	NAD-SFC	NoSubs
9	6	29	180	4	-15.1	0.190	-9.000	-9.000	-999.	199.	40.4	0.2470	0.52	1.00	2.10	32.0	15.0	294.8	2.0	0	0.00	64.	997.	2	NAD-SFC	NoSubs
9	6	29	180	5	-4.0	0.102	-9.000	-9.000	-999.	81.	23.7	0.2940	0.52	1.00	1.00	19.0	15.0	294.2	2.0	0	0.00	66.	998.	2	NAD-SFC	NoSubs
9	6	29	180	6	-0.5	0.050	-9.000	-9.000	-999.	27.	22.9	0.2470	0.52	0.46	0.50	36.0	15.0	294.0	2.0	0	0.00	67.	998.	2	NAD-SFC	NoSubs
9	6	29	180	7	39.8	-9.000	-9.000	-9.000	145.	-999.	-99999.0	0.2235	0.52	0.28	0.00	0.0	15.0	296.0	2.0	0	0.00	57.	998.	2	NAD-SFC	NoSubs
9	6	29	180	8	85.4	-9.000	-9.000	-9.000	254.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	298.0	2.0	0	0.00	52.	998.	2	NAD-SFC	NoSubs
9	6	29	180	9	125.5	-9.000	-9.000	-9.000	372.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	300.2	2.0	0	0.00	46.	997.	2	NAD-SFC	NoSubs
9	6	29	180	10	157.6	-9.000	-9.000	-9.000	508.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.2	2.0	0	0.00	42.	997.	2	NAD-SFC	NoSubs
9	6	29	180	11	180.2	-9.000	-9.000	-9.000	634.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	304.0	2.0	0	0.00	39.	996.	2	NAD-SFC	NoSubs
9	6	29	180	12	191.6	-9.000	-9.000	-9.000	765.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	305.6	2.0	0	0.00	36.	996.	2	NAD-SFC	NoSubs
9	6	29	180	13	192.6	0.124	1.684	0.007	881.	104.	-1.0	0.2940	0.52	0.19	0.50	5.0	15.0	307.1	2.0	0	0.00	34.	995.	2	NAD-SFC	NoSubs
9	6	29	180	14	183.0	0.123	1.717	0.008	983.	103.	-1.0	0.2930	0.52	0.19	0.50	356.0	15.0	308.2	2.0	0	0.00	31.	994.	2	NAD-SFC	NoSubs
9	6	29	180	15	162.3	-9.000	-9.000	-9.000	1089.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	309.2	2.0	0	0.00	29.	994.	2	NAD-SFC	NoSubs
9	6	29	180	16	131.8	0.288	1.631	0.008	1168.	370.	-16.0	0.2930	0.52	0.20	2.10	335.0	15.0	310.0	2.0	0	0.00	28.	994.	2	NAD-SFC	NoSubs
9	6	29	180	17	91.7	0.388	1.464	0.009	1214.	581.	-56.6	0.2160	0.52	0.22	3.60	293.0	15.0	308.2	2.0	0	0.00	43.	994.	2	NAD-SFC	NoSubs
9	6	29	180	18	45.4	0.459	1.163	0.009	1230.	746.	-189.4	0.2160	0.52	0.27	4.60	277.0	15.0	305.4	2.0	0	0.00	50.	995.	2	NAD-SFC	NoSubs
9	6	29	180	19	0.3	0.434	0.216	0.009	1221.	687.	-8888.0	0.2160	0.52	0.46	4.60	285.0	15.0	302.4	2.0	0	0.00	52.	996.	2	NAD-SFC	NoSubs
9	6	29	180	20	-43.0	0.420	-9.000	-9.000	-999.	654.	153.0	0.2160	0.52	1.00	4.60	282.0	15.0	299.9	2.0	0	0.00	56.	996.	2	NAD-SFC	NoSubs
9	6	29	180	21	-33.6	0.325	-9.000	-9.000	-999.	451.	91.2	0.2160	0.52	1.00	3.60	289.0	15.0	297.9	2.0	0	0.00	58.	996.	2	NAD-SFC	NoSubs
9	6	29	180	22	-25.4	0.252	-9.000	-9.000	-999.	306.	55.7	0.2930	0.52	1.00	2.60	342.0	15.0	297.1	2.0	0	0.00	57.	996.	2	NAD-SFC	NoSubs
9	6	29	180	23	-29.9	0.289	-9.000	-9.000	-999.	372.	71.4	0.2470	0.52	1.00	3.10	34.0	15.0	296.6	2.0	0	0.00	57.	996.	2	NAD-SFC	NoSubs
9	6	29	180	24	-35.1	0.337	-9.000	-9.000	-999.	470.	97.4	0.2470	0.52	1.00	3.60	47.0	15.0	295.9	2.0	0	0.00	60.	997.	2	NAD-SFC	NoSubs
9	6	30	181	1	-16.4	0.200	-9.000	-9.000	-999.	227.	43.4	0.2940	0.52	1.00	2.10	28.0	15.0	295.2	2.0	0	0.00	60.	997.	2	NAD-SFC	NoSubs
9	6	30	181	2	-8.2	0.140	-9.000	-9.000	-999.	127.	29.7	0.2930	0.52	1.00	1.50	353.0	15.0	294.5	2.0	0	0.00	61.	997.	2	NAD-SFC	NoSubs
9	6	30	181	3	-1.6	0.084	-9.000	-9.000	-999.	59.	31.9	0.2930	0.52	1.00	0.50	360.0	15.0	293.8	2.0	0	0.00	63.	998.	2	NAD-SFC	NoSubs

9	6	30	181	4	-1.5	0.080	-9.000	-9.000	-999.	55.	31.3	0.2090	0.52	1.00	0.50	66.0	15.0	293.1	2.0	0	0.00	65.	998.	2	NAD-SFC	NoSubs
9	6	30	181	5	-3.5	0.096	-9.000	-9.000	-999.	71.	22.3	0.2090	0.52	1.00	1.00	68.0	15.0	292.8	2.0	0	0.00	66.	998.	2	NAD-SFC	NoSubs
9	6	30	181	6	-1.8	0.089	-9.000	-9.000	-999.	64.	34.5	0.2470	0.52	0.47	1.00	57.0	15.0	292.4	2.0	0	0.00	68.	998.	2	NAD-SFC	NoSubs
9	6	30	181	7	38.6	0.098	0.585	0.013	184.	73.	-2.1	0.2720	0.52	0.28	0.50	314.0	15.0	293.4	2.0	0	0.00	62.	998.	2	NAD-SFC	NoSubs
9	6	30	181	8	84.2	-9.000	-9.000	-9.000	284.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	295.5	2.0	0	0.00	53.	998.	2	NAD-SFC	NoSubs
9	6	30	181	9	124.3	-9.000	-9.000	-9.000	385.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	297.8	2.0	0	0.00	45.	998.	2	NAD-SFC	NoSubs
9	6	30	181	10	156.3	-9.000	-9.000	-9.000	524.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.8	2.0	0	0.00	41.	997.	2	NAD-SFC	NoSubs
9	6	30	181	11	178.9	-9.000	-9.000	-9.000	651.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.8	2.0	0	0.00	37.	997.	2	NAD-SFC	NoSubs
9	6	30	181	12	190.5	-9.000	-9.000	-9.000	765.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.6	2.0	0	0.00	33.	996.	2	NAD-SFC	NoSubs
9	6	30	181	13	191.3	0.186	1.669	0.010	864.	193.	-3.0	0.2930	0.52	0.19	1.00	344.0	15.0	304.9	2.0	0	0.00	31.	996.	2	NAD-SFC	NoSubs
9	6	30	181	14	181.6	0.239	1.693	0.010	949.	280.	-6.6	0.2930	0.52	0.19	1.50	349.0	15.0	305.9	2.0	0	0.00	29.	995.	2	NAD-SFC	NoSubs
9	6	30	181	15	160.7	0.293	1.665	0.010	1021.	382.	-14.0	0.2930	0.52	0.19	2.10	355.0	15.0	306.5	2.0	0	0.00	28.	995.	2	NAD-SFC	NoSubs
9	6	30	181	16	129.9	0.334	1.578	0.010	1076.	462.	-25.4	0.2930	0.52	0.20	2.60	342.0	15.0	306.8	2.0	0	0.00	28.	995.	2	NAD-SFC	NoSubs
9	6	30	181	17	90.3	0.323	1.413	0.010	1110.	441.	-33.1	0.2930	0.52	0.22	2.60	332.0	15.0	305.8	2.0	0	0.00	37.	995.	2	NAD-SFC	NoSubs
9	6	30	181	18	44.8	0.437	1.124	0.010	1125.	693.	-165.5	0.2720	0.52	0.27	4.10	312.0	15.0	304.2	2.0	0	0.00	45.	995.	2	NAD-SFC	NoSubs
9	6	30	181	19	-1.9	0.488	-9.000	-9.000	-999.	818.	5313.8	0.2160	0.52	0.46	5.10	298.0	15.0	300.5	2.0	0	0.00	53.	996.	2	NAD-SFC	NoSubs
9	6	30	181	20	-46.2	0.448	-9.000	-9.000	-999.	721.	172.3	0.2720	0.52	1.00	4.60	301.0	15.0	297.5	2.0	0	0.00	58.	996.	2	NAD-SFC	NoSubs
9	6	30	181	21	-43.7	0.420	-9.000	-9.000	-999.	654.	150.6	0.2160	0.52	1.00	4.60	299.0	15.0	295.5	2.0	0	0.00	61.	996.	2	NAD-SFC	NoSubs
9	6	30	181	22	-41.5	0.397	-9.000	-9.000	-999.	601.	134.0	0.2720	0.52	1.00	4.10	302.0	15.0	294.1	2.0	0	0.00	63.	997.	2	NAD-SFC	NoSubs
9	6	30	181	23	-31.1	0.296	-9.000	-9.000	-999.	394.	74.5	0.2720	0.52	1.00	3.10	317.0	15.0	293.2	2.0	0	0.00	65.	997.	2	NAD-SFC	NoSubs
9	6	30	181	24	-31.8	0.303	-9.000	-9.000	-999.	400.	77.7	0.2930	0.52	1.00	3.10	357.0	15.0	292.8	2.0	0	0.00	65.	997.	2	NAD-SFC	NoSubs
9	7	1	182	1	-37.4	0.355	-9.000	-9.000	-999.	507.	106.3	0.2940	0.52	1.00	3.60	18.0	15.0	292.2	2.0	0	0.00	66.	998.	2	NAD-SFC	NoSubs
9	7	1	182	2	-30.4	0.288	-9.000	-9.000	-999.	374.	70.1	0.2470	0.52	1.00	3.10	35.0	15.0	291.8	2.0	0	0.00	68.	998.	2	NAD-SFC	NoSubs
9	7	1	182	3	-30.5	0.288	-9.000	-9.000	-999.	372.	70.0	0.2470	0.52	1.00	3.10	34.0	15.0	291.2	2.0	0	0.00	68.	998.	2	NAD-SFC	NoSubs
9	7	1	182	4	-25.7	0.252	-9.000	-9.000	-999.	304.	55.2	0.2940	0.52	1.00	2.60	28.0	15.0	290.9	2.0	0	0.00	68.	998.	2	NAD-SFC	NoSubs
9	7	1	182	5	-15.2	0.190	-9.000	-9.000	-999.	200.	40.1	0.2470	0.52	1.00	2.10	41.0	15.0	290.6	2.0	0	0.00	69.	999.	2	NAD-SFC	NoSubs
9	7	1	182	6	-4.5	0.138	-9.000	-9.000	-999.	124.	52.0	0.2470	0.52	0.47	1.50	30.0	15.0	291.0	2.0	0	0.00	67.	999.	2	NAD-SFC	NoSubs
9	7	1	182	7	38.1	0.099	0.547	0.014	153.	75.	-2.3	0.2930	0.52	0.28	0.50	342.0	15.0	292.8	2.0	0	0.00	59.	999.	2	NAD-SFC	NoSubs
9	7	1	182	8	83.7	-9.000	-9.000	-9.000	273.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	294.6	2.0	0	0.00	56.	999.	2	NAD-SFC	NoSubs
9	7	1	182	9	123.7	-9.000	-9.000	-9.000	399.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.8	2.0	0	0.00	51.	998.	2	NAD-SFC	NoSubs
9	7	1	182	10	155.8	-9.000	-9.000	-9.000	509.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.8	2.0	0	0.00	47.	998.	2	NAD-SFC	NoSubs
9	7	1	182	11	178.3	-9.000	-9.000	-9.000	612.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.8	2.0	0	0.00	43.	997.	2	NAD-SFC	NoSubs
9	7	1	182	12	190.0	0.123	1.564	0.011	717.	104.	-1.0	0.2930	0.52	0.19	0.50	341.0	15.0	302.8	2.0	0	0.00	37.	997.	2	NAD-SFC	NoSubs
9	7	1	182	13	190.9	0.186	1.638	0.012	819.	193.	-3.0	0.2930	0.52	0.19	1.00	342.0	15.0	304.1	2.0	0	0.00	35.	996.	2	NAD-SFC	NoSubs
9	7	1	182	14	181.2	0.297	1.664	0.011	906.	389.	-12.9	0.2930	0.52	0.19	2.10	350.0	15.0	305.1	2.0	0	0.00	34.	996.	2	NAD-SFC	NoSubs
9	7	1	182	15	160.2	0.387	1.638	0.011	976.	578.	-32.1	0.2940	0.52	0.19	3.10	1.0	15.0	305.8	2.0	0	0.00	34.	995.	2	NAD-SFC	NoSubs
9	7	1	182	16	129.5	-9.000	-9.000	-9.000	1025.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	306.0	2.0	0	0.00	34.	995.	2	NAD-SFC	NoSubs
9	7	1	182	17	90.4	0.323	1.391	0.010	1057.	441.	-33.2	0.2940	0.52	0.22	2.60	4.0	15.0	305.8	2.0	0	0.00	41.	995.	2	NAD-SFC	NoSubs
9	7	1	182	18	45.3	0.301	1.110	0.010	1072.	396.	-53.3	0.2720	0.52	0.27	2.60	323.0	15.0	305.2	2.0	0	0.00	46.	996.	2	NAD-SFC	NoSubs
9	7	1	182	19	0.4	0.434	0.226	0.010	1067.	687.	-8888.0	0.2160	0.52	0.46	4.60	288.0	15.0	302.5	2.0	0	0.00	52.	996.	2	NAD-SFC	NoSubs
9	7	1	182	20	-48.1	0.468	-9.000	-9.000	-999.	767.	188.8	0.2160	0.52	1.00	5.10	285.0	15.0	298.6	2.0	0	0.00	59.	996.	2	NAD-SFC	NoSubs
9	7	1	182	21	-43.5	0.420	-9.000	-9.000	-999.	655.	151.2	0.2160	0.52	1.00	4.60	280.0	15.0	296.5	2.0	0	0.00	62.	996.	2	NAD-SFC	NoSubs
9	7	1	182	22	-38.8	0.373	-9.000	-9.000	-999.	548.	118.4	0.2160	0.52	1.00	4.10	295.0	15.0	295.2	2.0	0	0.00	65.	997.	2	NAD-SFC	NoSubs
9	7	1	182	23	-36.2	0.347	-9.000	-9.000	-999.	491.	102.3	0.2720	0.52	1.00	3.60	303.0	15.0	294.2	2.0	0	0.00	66.	997.	2	NAD-SFC	NoSubs
9	7	1	182	24	-36.3	0.347	-9.000	-9.000	-999.	490.	102.0	0.2720	0.52	1.00	3.60	324.0	15.0	293.6	2.0	0	0.00	68.	997.	2	NAD-SFC	NoSubs
9	7	2	183	1	-37.2	0.354	-9.000	-9.000	-999.	506.	106.3	0.2930	0.52	1.00	3.60	340.0	15.0	292.9	2.0	0	0.00	70.	998.	2	NAD-SFC	NoSubs
9	7	2	183	2	-31.9	0.303	-9.000	-9.000	-999.	402.	77.6	0.2930	0.52	1.00	3.10	341.0	15.0	292.5	2.0	0	0.00	70.	998.	2	NAD-SFC	NoSubs
9	7	2	183	3	-25.7	0.252	-9.000	-9.000	-999.	304.	55.2	0.2930	0.52	1.00	2.60	335.0	15.0	292.2	2.0	0	0.00	68.	999.	2	NAD-SFC	NoSubs
9	7	2	183	4	-16.5	0.200	-9.000	-9.000	-999.	215.	43.1	0.2930	0.52	1.00	2.10	331.0	15.0	292.2	2.0	0	0.00	67.	999.	2	NAD-SFC	NoSubs
9	7	2	183	5	-8.2	0.140	-9.000	-9.000	-999.	126.	29.6	0.2930	0.52	1.00	1.50	350.0	15.0	292.2	2.0	0	0.00	67.	1000.	2	NAD-SFC	NoSubs
9	7	2	183	6	-2.1	0.094	-9.000	-9.000	-999.	69.	35.0	0.2940	0.52	0.47	1.00	22.0	15.0	292.2	2.0	0	0.00	68.	1000.	2	NAD-SFC	NoSubs
9	7	2	183	7	38.3	0.099	0.545	0.010	151.	75.	-2.3	0.2930	0.52	0.28	0.50	351.0	15.0	294.1	2.0	0	0.00	61.	1000.	2	NAD-SFC	NoSubs
9	7	2	183	8	83.9	-9.000	-9.000	-9.000	302.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	296.0	2.0	0	0.00	57.	1000.	2	NAD-SFC	NoSubs
9	7	2	183	9	123.9	-9.000	-9.000	-9.000	447.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	297.8	2.0	0	0.00	53.	1000.	2	NAD-SFC	NoSubs
9	7	2	183	10	156.0	-9.000	-9.000	-9.000	582.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.6	2.0	0	0.00	50.	999.	2	NAD-SFC	NoSubs
9	7	2	183	11	178.7	-9.000	-9.000	-9.000	722.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.8	2.0	0	0.00	45.	999.	2	NAD-SFC	NoSubs
9	7	2	183	12	190.3	-9.000	-9.000	-9.000	868.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.4	2.0	0	0.00	41.	998.	2	NAD-SFC	NoSubs
9	7	2	183	13	191.2	0.121	1.742	0.012	985.	102.	-1.0	0.2720	0.52	0.19	0.50	314.0	15.0	304.8	2.0	0	0.00	38.	997.	2	NAD-SFC	NoSubs
9	7	2	183	14	181.6	0.185	1.748	0.012	1047.	191.	-3.1	0.2930	0.52	0.19	1.00	342.0	15.0	305.9	2.0	0	0.00	35.	997.	2	NAD-SFC	NoSubs
9	7	2	183	15	160.7	0.293	1.706	0.011	1100.	381.	-14.0	0.2930	0.52	0.19	2.10	352.0	15.0	306.5	2.0	0	0.00	34.	997.	2	NAD-SFC	NoSubs
9	7	2	183	16	129.9	0.380	1.609	0.011	1140.	562.	-37.6	0.2940	0.52	0.20	3.10	3.0	15.0	306.8	2.0	0	0.00	34.	996.	2	NAD-SFC	NoSubs
9	7	2	183	17	90.8	0.323	1.438	0.011	1167.	443.	-33.0	0.2930	0.52	0.22	2.60	348.0	15.0	306.4	2.0	0	0.00	43.	997.	2	NAD-SFC	NoSubs
9	7	2	183	18	46.3	0.416	1.152	0.011	1177.	643.	-138.3	0.2160	0.52	0.27	4.10	299.0	15.0	304.9	2.0	0	0.00	50.	998.	3	NAD-SFC	NoSubs
9	7	2	183	19	-1.8	0.488	-9.000	-9.000	-999.	818.	5848.1	0.2160	0.52	0.46	5.10	285.0	15.0	300.6	2.0	0	0.00	58.	998.	2	NAD-SFC	NoSubs
9	7	2	183	20	-48.5	0.468	-9.000	-9.000	-999.	768.	187.8	0.2160	0.52	1.00	5.10	277.0	15.0	297.2	2.0	0	0.00	59.	999.	2	NAD-SFC	NoSubs
9	7	2	183	21	-48.9	0.468	-9.000	-9.000	-999.	767.	186.5	0.2160	0.52	1.00	5.10	283.0	15.0	295.1	2.0	0	0.00	61.	1000.	2	NAD-SFC	NoSubs
9	7	2	183	22	-43.0	0.420	-9.000	-9.000	-999.	656.	153.7	0.2160	0.52	1.00	4.60	289.0	15.0	293.6	2.0	0	0.00	62.	1000.	3	NAD-SFC	NoSubs
9	7	2	183	23	-24.5	0.246	-9.000	-9.000	-999.	318.	54.5	0.2720	0.52	1.00	2.60	316.0	15.0	292.9	2.0	0	0.00	63.	1001.	3	NAD-SFC	NoSubs
9	7	2	183	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	292.6	2.0	0	0.00	63.	1001.	3	NAD-SFC	NoSubs
9	7	3	184	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	291.8	2.0	0	0.00	66.	1002.	3	NAD-SFC	NoSubs
9	7	3	184	2	-31.4	0.303	-9.000	-9.000	-999.	401.	79.4	0.2930	0.52	1.00	3.10	354.0	15.0	291.1	2.0	0	0.00	69.	1002.	3	NAD-SFC	NoSubs
9	7	3	184	3	-25.5	0.252	-9.000	-9.000	-999.	304.	55.8	0.2930	0.52	1.00	2.60	346.0	15.0	290.5	2.0	0	0.00	70.	1002.	3	NAD-SFC	NoSubs
9	7	3	184	4	-25.5	0.252	-9.000	-9.000	-999.	303.	55.8	0.2930	0.52	1.00	2.60	357.0	15.0	290.1	2.0	0	0.00	70.	1002.	3	NAD-SFC	NoSubs
9	7	3	184	5	-16.4	0.200	-9.000	-9.000	-999.	216.	43.6	0.2940	0.52	1.00	2.10	1.0	15.0	289.9	2.0	0	0.00	69.	1002.	3	NAD-SFC	NoSubs
9	7	3	184	6	-8.0	0.206	-9.000	-9.000	-999.	225.	98.3	0.2930	0.52	0.47	2.10	338.0	15.0	290.2	2.0	0	0.00	67.	1002.	2	NAD-SFC	NoSubs
9	7	3	184	7	37.4	0.197	0.512	0.011	128.	210.	-18.3	0.2720	0.52	0.28	1.50	316.0	15.0	292.2	2.0	0	0.00	58.	1002.	2	NAD-SFC	NoSubs
9	7	3	184	8	83.0	-9.000	-9.000	-9.000	219.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	294.1	2.0	0	0.00	54.	1002.	2	NAD-SFC	NoSubs

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 9  7  3 184  9  123.3 -9.000 -9.000 -9.000  365. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 296.8  2.0   0  0.00  47. 1002.   2 NAD-SFC NoSubs
 9  7  3 184 10  155.4 -9.000 -9.000 -9.000  503. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 298.8  2.0   0  0.00  42. 1002.   2 NAD-SFC NoSubs
 9  7  3 184 11  178.1 -9.000 -9.000 -9.000  629. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 300.8  2.0   0  0.00  39. 1002.   2 NAD-SFC NoSubs
 9  7  3 184 12  189.8 -9.000 -9.000 -9.000  747. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 302.6  2.0   0  0.00  35. 1001.   2 NAD-SFC NoSubs
 9  7  3 184 13  190.7  0.121  1.657  0.009  852.  101.     -1.0 0.2720  0.52  0.19  0.50 319.0  15.0 304.0  2.0   0  0.00  32. 1000.   2 NAD-SFC NoSubs
 9  7  3 184 14  181.2  0.238  1.683  0.009  940.  280.     -6.7 0.2930  0.52  0.19  1.50 336.0  15.0 305.1  2.0   0  0.00  30. 1000.   2 NAD-SFC NoSubs
 9  7  3 184 15  160.2  0.293  1.659  0.009 1017.  381.    -14.0 0.2930  0.52  0.19  2.10 357.0  15.0 305.8  2.0   0  0.00  30.  999.   2 NAD-SFC NoSubs
 9  7  3 184 16  129.5 -9.000 -9.000 -9.000 1077. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 305.9  2.0   0  0.00  31.  999.   2 NAD-SFC NoSubs
 9  7  3 184 17   90.2  0.323  1.413  0.010 1116.  441.    -33.3 0.2940  0.52  0.22  2.60  12.0  15.0 305.4  2.0   0  0.00  39.  999.   2 NAD-SFC NoSubs
 9  7  3 184 18   45.3  0.306  1.130  0.010 1135.  406.    -56.2 0.2930  0.52  0.27  2.60 357.0  15.0 305.1  2.0   0  0.00  44.  999.   2 NAD-SFC NoSubs
 9  7  3 184 19    0.9  0.435  0.302  0.010 1131.  688.  -8493.4 0.2160  0.52  0.46  4.60 297.0  15.0 303.5  2.0   0  0.00  46. 1000.   2 NAD-SFC NoSubs
 9  7  3 184 20  -48.4  0.468 -9.000 -9.000 -999.  767.    188.4 0.2160  0.52  1.00  5.10 279.0  15.0 298.1  2.0   0  0.00  58. 1000.   2 NAD-SFC NoSubs
 9  7  3 184 21  -46.3  0.443 -9.000 -9.000 -999.  708.    167.5 0.1750  0.52  1.00  5.10 266.0  15.0 295.4  2.0   0  0.00  61. 1000.   2 NAD-SFC NoSubs
 9  7  3 184 22  -39.1  0.372 -9.000 -9.000 -999.  549.    117.9 0.2160  0.52  1.00  4.10 285.0  15.0 293.9  2.0   0  0.00  63. 1001.   2 NAD-SFC NoSubs
 9  7  3 184 23  -29.3  0.278 -9.000 -9.000 -999.  357.     65.5 0.2160  0.52  1.00  3.10 295.0  15.0 293.0  2.0   0  0.00  63. 1001.   2 NAD-SFC NoSubs
 9  7  3 184 24  -25.7  0.252 -9.000 -9.000 -999.  303.     55.2 0.2930  0.52  1.00  2.60 331.0  15.0 292.5  2.0   0  0.00  62. 1001.   2 NAD-SFC NoSubs
 9  7  4 185  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 291.9  2.0   0  0.00  64. 1001.   2 NAD-SFC NoSubs
 9  7  4 185  2  -32.2  0.303 -9.000 -9.000 -999.  400.     77.3 0.2930  0.52  1.00  3.10 359.0  15.0 291.2  2.0   0  0.00  66. 1002.   2 NAD-SFC NoSubs
 9  7  4 185  3  -25.8  0.251 -9.000 -9.000 -999.  304.     55.1 0.2930  0.52  1.00  2.60 350.0  15.0 290.9  2.0   0  0.00  64. 1002.   2 NAD-SFC NoSubs
 9  7  4 185  4  -25.8  0.251 -9.000 -9.000 -999.  303.     55.1 0.2930  0.52  1.00  2.60 351.0  15.0 290.8  2.0   0  0.00  63. 1002.   2 NAD-SFC NoSubs
 9  7  4 185  5  -25.8  0.251 -9.000 -9.000 -999.  303.     55.0 0.2930  0.52  1.00  2.60 346.0  15.0 290.4  2.0   0  0.00  62. 1002.   2 NAD-SFC NoSubs
 9  7  4 185  6   -5.2  0.144 -9.000 -9.000 -999.  137.     51.4 0.2930  0.52  0.47  1.50 355.0  15.0 290.4  2.0   0  0.00  63. 1003.   2 NAD-SFC NoSubs
 9  7  4 185  7   37.2  0.200  0.499  0.010  119.  215.    -19.3 0.2930  0.52  0.28  1.50 331.0  15.0 292.6  2.0   0  0.00  55. 1003.   2 NAD-SFC NoSubs
 9  7  4 185  8   82.8 -9.000 -9.000 -9.000  248. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 294.4  2.0   0  0.00  52. 1003.   2 NAD-SFC NoSubs
 9  7  4 185  9  122.9 -9.000 -9.000 -9.000  411. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 296.4  2.0   0  0.00  48. 1003.   2 NAD-SFC NoSubs
 9  7  4 185 10  155.1 -9.000 -9.000 -9.000  549. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 298.2  2.0   0  0.00  46. 1002.   2 NAD-SFC NoSubs
 9  7  4 185 11  177.8 -9.000 -9.000 -9.000  679. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 300.4  2.0   0  0.00  42. 1002.   2 NAD-SFC NoSubs
 9  7  4 185 12  189.4 -9.000 -9.000 -9.000  820. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 302.1  2.0   0  0.00  38. 1001.   2 NAD-SFC NoSubs
 9  7  4 185 13  190.4 -9.000 -9.000 -9.000  942. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 303.5  2.0   0  0.00  34. 1000.   2 NAD-SFC NoSubs
 9  7  4 185 14  180.9  0.120  1.732  0.010 1026.  100.     -1.0 0.2720  0.52  0.19  0.50 329.0  15.0 304.6  2.0   0  0.00  31.  999.   2 NAD-SFC NoSubs
 9  7  4 185 15  160.0  0.235  1.696  0.010 1088.  273.     -7.2 0.2930  0.52  0.19  1.50 353.0  15.0 305.2  2.0   0  0.00  30.  999.   2 NAD-SFC NoSubs
 9  7  4 185 16  129.2  0.287  1.603  0.010 1136.  369.    -16.3 0.2940  0.52  0.20  2.10   5.0  15.0 305.4  2.0   0  0.00  29.  998.   2 NAD-SFC NoSubs
 9  7  4 185 17   90.1  0.277  1.434  0.010 1167.  350.    -21.0 0.2930  0.52  0.22  2.10 348.0  15.0 305.1  2.0   0  0.00  35.  998.   2 NAD-SFC NoSubs
 9  7  4 185 18   44.8  0.345  1.141  0.010 1181.  487.    -82.0 0.2720  0.52  0.27  3.10 314.0  15.0 304.2  2.0   0  0.00  42.  999.   2 NAD-SFC NoSubs
 9  7  4 185 19   -2.1  0.488 -9.000 -9.000 -999.  818.   4928.8 0.2160  0.52  0.46  5.10 280.0  15.0 300.5  2.0   0  0.00  50.  999.   2 NAD-SFC NoSubs
 9  7  4 185 20  -46.1  0.443 -9.000 -9.000 -999.  710.    168.0 0.1750  0.52  1.00  5.10 267.0  15.0 296.2  2.0   0  0.00  55. 1000.   2 NAD-SFC NoSubs
 9  7  4 185 21  -49.0  0.467 -9.000 -9.000 -999.  767.    185.7 0.2160  0.52  1.00  5.10 285.0  15.0 294.0  2.0   0  0.00  57. 1000.   2 NAD-SFC NoSubs
 9  7  4 185 22  -39.3  0.372 -9.000 -9.000 -999.  552.    117.3 0.2160  0.52  1.00  4.10 284.0  15.0 292.5  2.0   0  0.00  59. 1000.   2 NAD-SFC NoSubs
 9  7  4 185 23  -22.3  0.230 -9.000 -9.000 -999.  280.     49.0 0.2160  0.52  1.00  2.60 297.0  15.0 291.8  2.0   0  0.00  60. 1001.   2 NAD-SFC NoSubs
 9  7  4 185 24  -25.8  0.251 -9.000 -9.000 -999.  303.     55.1 0.2930  0.52  1.00  2.60 351.0  15.0 291.2  2.0   0  0.00  59. 1001.   2 NAD-SFC NoSubs
 9  7  5 186  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 290.4  2.0   0  0.00  64. 1002.   2 NAD-SFC NoSubs
 9  7  5 186  2  -25.9  0.251 -9.000 -9.000 -999.  303.     54.9 0.2930  0.52  1.00  2.60 343.0  15.0 289.8  2.0   0  0.00  66. 1002.   2 NAD-SFC NoSubs
 9  7  5 186  3  -25.9  0.251 -9.000 -9.000 -999.  303.     54.9 0.2930  0.52  1.00  2.60 334.0  15.0 289.4  2.0   0  0.00  65. 1002.   2 NAD-SFC NoSubs
 9  7  5 186  4  -16.6  0.200 -9.000 -9.000 -999.  215.     42.9 0.2930  0.52  1.00  2.10 332.0  15.0 289.2  2.0   0  0.00  64. 1002.   2 NAD-SFC NoSubs
 9  7  5 186  5   -8.3  0.140 -9.000 -9.000 -999.  126.     29.4 0.2930  0.52  1.00  1.50 337.0  15.0 289.0  2.0   0  0.00  66. 1003.   2 NAD-SFC NoSubs
 9  7  5 186  6   -2.3  0.093 -9.000 -9.000 -999.   69.     30.8 0.2930  0.52  0.48  1.00 336.0  15.0 288.9  2.0   0  0.00  68. 1003.   2 NAD-SFC NoSubs
 9  7  5 186  7   36.4  0.200  0.513  0.011  132.  214.    -19.6 0.2930  0.52  0.28  1.50 343.0  15.0 291.0  2.0   0  0.00  63. 1004.   2 NAD-SFC NoSubs
 9  7  5 186  8   82.1 -9.000 -9.000 -9.000  275. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 292.9  2.0   0  0.00  58. 1004.   2 NAD-SFC NoSubs
 9  7  5 186  9  122.1 -9.000 -9.000 -9.000  411. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 294.6  2.0   0  0.00  53. 1003.   2 NAD-SFC NoSubs
 9  7  5 186 10  154.2 -9.000 -9.000 -9.000  548. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 296.5  2.0   0  0.00  50. 1003.   2 NAD-SFC NoSubs
 9  7  5 186 11  176.7 -9.000 -9.000 -9.000  673. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 298.2  2.0   0  0.00  46. 1002.   2 NAD-SFC NoSubs
 9  7  5 186 12  188.2 -9.000 -9.000 -9.000  788. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 299.8  2.0   0  0.00  43. 1001.   2 NAD-SFC NoSubs
 9  7  5 186 13  189.2  0.123  1.676  0.013  889.  104.     -1.0 0.2930  0.52  0.19  0.50 338.0  15.0 301.2  2.0   0  0.00  40. 1001.   2 NAD-SFC NoSubs
 9  7  5 186 14  179.7  0.238  1.699  0.013  975.  279.     -6.7 0.2930  0.52  0.19  1.50 342.0  15.0 302.4  2.0   0  0.00  37. 1000.   2 NAD-SFC NoSubs
 9  7  5 186 15  158.9  0.293  1.659  0.013 1027.  381.    -14.1 0.2930  0.52  0.19  2.10 355.0  15.0 303.2  2.0   0  0.00  35. 1000.   2 NAD-SFC NoSubs
 9  7  5 186 16  128.2  0.333  1.565  0.013 1067.  462.    -25.7 0.2940  0.52  0.20  2.60   5.0  15.0 303.6  2.0   0  0.00  34.  999.   2 NAD-SFC NoSubs
 9  7  5 186 17   89.3  0.323  1.399  0.013 1094.  440.    -33.6 0.2940  0.52  0.22  2.60   4.0  15.0 303.6  2.0   0  0.00  36.  999.   2 NAD-SFC NoSubs
 9  7  5 186 18   45.2  0.301  1.119  0.013 1106.  396.    -53.6 0.2720  0.52  0.27  2.60 327.0  15.0 303.0  2.0   0  0.00  45. 1000.   3 NAD-SFC NoSubs
 9  7  5 186 19    0.9  0.435  0.300  0.013 1102.  688.  -8383.5 0.2160  0.52  0.46  4.60 291.0  15.0 300.6  2.0   0  0.00  50. 1000.   3 NAD-SFC NoSubs
 9  7  5 186 20  -53.4  0.525 -9.000 -9.000 -999.  913.    242.4 0.2160  0.52  1.00  5.70 273.0  15.0 296.1  2.0   0  0.00  60. 1001.   3 NAD-SFC NoSubs
 9  7  5 186 21  -47.9  0.468 -9.000 -9.000 -999.  771.    190.6 0.2160  0.52  1.00  5.10 281.0  15.0 293.8  2.0   0  0.00  65. 1001.   3 NAD-SFC NoSubs
 9  7  5 186 22  -38.4  0.373 -9.000 -9.000 -999.  553.    120.5 0.2160  0.52  1.00  4.10 286.0  15.0 292.6  2.0   0  0.00  70. 1002.   3 NAD-SFC NoSubs
 9  7  5 186 23  -28.7  0.278 -9.000 -9.000 -999.  357.     67.0 0.2160  0.52  1.00  3.10 296.0  15.0 291.8  2.0   0  0.00  75. 1002.   3 NAD-SFC NoSubs
 9  7  5 186 24  -30.7  0.297 -9.000 -9.000 -999.  388.     76.0 0.2720  0.52  1.00  3.10 324.0  15.0 291.2  2.0   0  0.00  77. 1003.   3 NAD-SFC NoSubs
 9  7  6 187  1  -24.6  0.246 -9.000 -9.000 -999.  294.     54.3 0.2720  0.52  1.00  2.60 329.0  15.0 291.0  2.0   0  0.00  77. 1003.   3 NAD-SFC NoSubs
 9  7  6 187  2  -15.8  0.196 -9.000 -9.000 -999.  208.     42.3 0.2720  0.52  1.00  2.10 329.0  15.0 290.8  2.0   0  0.00  78. 1003.   3 NAD-SFC NoSubs
 9  7  6 187  3   -8.2  0.140 -9.000 -9.000 -999.  126.     29.8 0.2930  0.52  1.00  1.50 344.0  15.0 290.2  2.0   0  0.00  79. 1003.   3 NAD-SFC NoSubs
 9  7  6 187  4   -4.0  0.102 -9.000 -9.000 -999.   78.     23.7 0.2940  0.52  1.00  1.00   1.0  15.0 289.6  2.0   0  0.00  81. 1003.   3 NAD-SFC NoSubs
 9  7  6 187  5   -1.6  0.083 -9.000 -9.000 -999.   58.     31.8 0.2940  0.52  1.00  0.50   9.0  15.0 289.0  2.0   0  0.00  84. 1004.   3 NAD-SFC NoSubs
 9  7  6 187  6   -2.4  0.093 -9.000 -9.000 -999.   68.     30.1 0.2940  0.52  0.48  1.00  22.0  15.0 288.8  2.0   0  0.00  84. 1004.   2 NAD-SFC NoSubs
 9  7  6 187  7   35.7 -9.000 -9.000 -9.000  276. -999. -99999.0 0.2235  0.52  0.28  0.00   0.0  15.0 289.6  2.0   0  0.00  74. 1004.   2 NAD-SFC NoSubs
 9  7  6 187  8   81.2 -9.000 -9.000 -9.000  417. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 290.9  2.0   0  0.00  69. 1004.   2 NAD-SFC NoSubs
 9  7  6 187  9  121.2 -9.000 -9.000 -9.000  534. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 292.6  2.0   0  0.00  62. 1004.   2 NAD-SFC NoSubs
 9  7  6 187 10  153.2 -9.000 -9.000 -9.000  654. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 294.4  2.0   0  0.00  56. 1003.   2 NAD-SFC NoSubs
 9  7  6 187 11  175.8  0.120  1.553  0.012  762.  100.     -1.0 0.2720  0.52  0.19  0.50 315.0  15.0 296.2  2.0   0  0.00  51. 1002.   2 NAD-SFC NoSubs
 9  7  6 187 12  187.4  0.121  1.654  0.012  863.  101.     -1.0 0.2720  0.52  0.19  0.50 317.0  15.0 297.9  2.0   0  0.00  46. 1001.   2 NAD-SFC NoSubs
 9  7  6 187 13  188.2  0.183  1.712  0.013  953.  187.     -2.9 0.2720  0.52  0.19  1.00 328.0  15.0 299.1  2.0   0  0.00  42. 1001.   2 NAD-SFC NoSubs
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 9  7  6 187 14  178.5  0.238  1.721  0.013 1020.  279.     -6.7  0.2930  0.52  0.19  1.50  341.0  15.0  300.0  2.0   0  0.00   40.  1000.    2 NAD-SFC NoSubs
 9  7  6 187 15  157.6  0.293  1.679  0.014 1072.  380.    -14.2  0.2930  0.52  0.19  2.10  348.0  15.0  300.6  2.0   0  0.00   39.  1000.    2 NAD-SFC NoSubs
 9  7  6 187 16  126.9  0.333  1.582  0.014 1113.  461.    -25.9  0.2940  0.52  0.20  2.60    4.0  15.0  300.9  2.0   0  0.00   38.   999.    2 NAD-SFC NoSubs
 9  7  6 187 17   87.8 -9.000 -9.000 -9.000 1139. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  300.8  2.0   0  0.00   38.   999.    2 NAD-SFC NoSubs
 9  7  6 187 18   42.8  0.305  1.114  0.014 1151.  404.    -58.9  0.2940  0.52  0.27  2.60   12.0  15.0  300.2  2.0   0  0.00   48.   999.    2 NAD-SFC NoSubs
 9  7  6 187 19    0.9 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.46  0.00    0.0  15.0  299.5  2.0   0  0.00   50.   999.    2 NAD-SFC NoSubs
 9  7  6 187 20  -40.9  0.406 -9.000 -9.000 -999.  621.    145.7  0.2930  0.52  1.00  4.10  360.0  15.0  297.9  2.0   0  0.00   54.   999.    3 NAD-SFC NoSubs
 9  7  6 187 21  -41.3  0.406 -9.000 -9.000 -999.  621.    144.6  0.2930  0.52  1.00  4.10  352.0  15.0  295.8  2.0   0  0.00   62.  1000.    3 NAD-SFC NoSubs
 9  7  6 187 22  -36.2  0.355 -9.000 -9.000 -999.  509.    109.8  0.2930  0.52  1.00  3.60  345.0  15.0  294.4  2.0   0  0.00   69.  1000.    3 NAD-SFC NoSubs
 9  7  6 187 23  -36.3  0.355 -9.000 -9.000 -999.  507.    109.5  0.2930  0.52  1.00  3.60  338.0  15.0  293.6  2.0   0  0.00   72.  1000.    3 NAD-SFC NoSubs
 9  7  6 187 24  -36.4  0.355 -9.000 -9.000 -999.  507.    109.1  0.2930  0.52  1.00  3.60  335.0  15.0  292.8  2.0   0  0.00   76.  1000.    3 NAD-SFC NoSubs
 9  7  7 188  1  -31.2  0.303 -9.000 -9.000 -999.  402.     79.6  0.2930  0.52  1.00  3.10  344.0  15.0  291.8  2.0   0  0.00   80.  1000.    3 NAD-SFC NoSubs
 9  7  7 188  2  -25.5  0.252 -9.000 -9.000 -999.  305.     56.0  0.2940  0.52  1.00  2.60    5.0  15.0  291.0  2.0   0  0.00   82.  1000.    3 NAD-SFC NoSubs
 9  7  7 188  3  -25.5  0.252 -9.000 -9.000 -999.  304.     55.9  0.2940  0.52  1.00  2.60    9.0  15.0  290.2  2.0   0  0.00   85.  1001.    3 NAD-SFC NoSubs
 9  7  7 188  4  -16.4  0.200 -9.000 -9.000 -999.  216.     43.6  0.2940  0.52  1.00  2.10    7.0  15.0  289.5  2.0   0  0.00   87.  1001.    3 NAD-SFC NoSubs
 9  7  7 188  5  -16.6  0.200 -9.000 -9.000 -999.  214.     42.9  0.2940  0.52  1.00  2.10   24.0  15.0  288.9  2.0   0  0.00   89.  1001.    2 NAD-SFC NoSubs
 9  7  7 188  6   -9.6  0.206 -9.000 -9.000 -999.  224.     80.5  0.2940  0.52  0.48  2.10   22.0  15.0  288.8  2.0   0  0.00   88.  1001.    2 NAD-SFC NoSubs
 9  7  7 188  7   35.5  0.151  0.558  0.009  175.  142.     -8.7  0.2940  0.52  0.28  1.00    7.0  15.0  289.9  2.0   0  0.00   79.  1002.    2 NAD-SFC NoSubs
 9  7  7 188  8   81.2 -9.000 -9.000 -9.000  301. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  292.0  2.0   0  0.00   69.  1001.    2 NAD-SFC NoSubs
 9  7  7 188  9  121.4 -9.000 -9.000 -9.000  444. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  293.9  2.0   0  0.00   62.  1001.    2 NAD-SFC NoSubs
 9  7  7 188 10  153.5 -9.000 -9.000 -9.000  614. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  295.6  2.0   0  0.00   57.  1000.    2 NAD-SFC NoSubs
 9  7  7 188 11  176.1 -9.000 -9.000 -9.000  767. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  297.2  2.0   0  0.00   52.  1000.    2 NAD-SFC NoSubs
 9  7  7 188 12  187.7 -9.000 -9.000 -9.000  905. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  299.0  2.0   0  0.00   46.   999.    2 NAD-SFC NoSubs
 9  7  7 188 13  188.6  0.121  1.749  0.010 1011.  101.     -1.0  0.2720  0.52  0.19  0.50  329.0  15.0  300.2  2.0   0  0.00   41.   998.    2 NAD-SFC NoSubs
 9  7  7 188 14  179.0  0.185  1.761  0.010 1087.  190.     -3.1  0.2930  0.52  0.19  1.00  347.0  15.0  301.2  2.0   0  0.00   39.   998.    2 NAD-SFC NoSubs
 9  7  7 188 15  158.1 -9.000 -9.000 -9.000 1151. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.8  2.0   0  0.00   37.   997.    2 NAD-SFC NoSubs
 9  7  7 188 16  127.4 -9.000 -9.000 -9.000 1200. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  302.0  2.0   0  0.00   37.   997.    2 NAD-SFC NoSubs
 9  7  7 188 17   88.2  0.369  1.451  0.010 1231.  537.    -50.5  0.2940  0.52  0.22  3.10   10.0  15.0  301.8  2.0   0  0.00   40.   997.    2 NAD-SFC NoSubs
 9  7  7 188 18   43.1  0.305  1.147  0.010 1246.  406.    -58.5  0.2940  0.52  0.27  2.60   15.0  15.0  301.1  2.0   0  0.00   50.   997.    2 NAD-SFC NoSubs
 9  7  7 188 19   -2.7  0.372 -9.000 -9.000 -999.  545.   1673.9  0.2940  0.52  0.46  3.60    4.0  15.0  300.2  2.0   0  0.00   52.   998.    2 NAD-SFC NoSubs
 9  7  7 188 20  -35.6  0.355 -9.000 -9.000 -999.  507.    111.6  0.2930  0.52  1.00  3.60  346.0  15.0  299.0  2.0   0  0.00   54.   998.    3 NAD-SFC NoSubs
 9  7  7 188 21  -40.0  0.397 -9.000 -9.000 -999.  601.    139.4  0.2720  0.52  1.00  4.10  329.0  15.0  297.8  2.0   0  0.00   57.   998.    3 NAD-SFC NoSubs
 9  7  7 188 22  -37.8  0.373 -9.000 -9.000 -999.  547.    121.9  0.2160  0.52  1.00  4.10  299.0  15.0  295.8  2.0   0  0.00   65.   998.    3 NAD-SFC NoSubs
 9  7  7 188 23  -33.2  0.325 -9.000 -9.000 -999.  447.     92.4  0.2160  0.52  1.00  3.60  278.0  15.0  294.2  2.0   0  0.00   71.   999.    3 NAD-SFC NoSubs
 9  7  7 188 24  -33.3  0.325 -9.000 -9.000 -999.  446.     92.2  0.2160  0.52  1.00  3.60  286.0  15.0  293.5  2.0   0  0.00   73.   999.    3 NAD-SFC NoSubs
 9  7  8 189  1  -35.6  0.347 -9.000 -9.000 -999.  490.    104.6  0.2720  0.52  1.00  3.60  300.0  15.0  292.9  2.0   0  0.00   74.   999.    3 NAD-SFC NoSubs
 9  7  8 189  2  -36.4  0.355 -9.000 -9.000 -999.  507.    108.9  0.2930  0.52  1.00  3.60  332.0  15.0  292.1  2.0   0  0.00   79.   999.    3 NAD-SFC NoSubs
 9  7  8 189  3  -31.3  0.303 -9.000 -9.000 -999.  402.     79.4  0.2930  0.52  1.00  3.10  346.0  15.0  291.1  2.0   0  0.00   84.   999.    3 NAD-SFC NoSubs
 9  7  8 189  4  -25.5  0.252 -9.000 -9.000 -999.  304.     55.8  0.2930  0.52  1.00  2.60  356.0  15.0  290.4  2.0   0  0.00   87.  1000.    3 NAD-SFC NoSubs
 9  7  8 189  5  -16.4  0.200 -9.000 -9.000 -999.  215.     43.6  0.2930  0.52  1.00  2.10  358.0  15.0  289.9  2.0   0  0.00   88.  1000.    3 NAD-SFC NoSubs
 9  7  8 189  6   -5.2  0.144 -9.000 -9.000 -999.  132.     51.3  0.2930  0.52  0.48  1.50  355.0  15.0  289.8  2.0   0  0.00   88.  1001.    3 NAD-SFC NoSubs
 9  7  8 189  7   36.6  0.255  0.558  0.007  169.  310.    -40.6  0.2930  0.52  0.28  2.10  350.0  15.0  291.1  2.0   0  0.00   76.  1001.    3 NAD-SFC NoSubs
 9  7  8 189  8   82.0  0.167  0.863  0.008  280.  167.     -5.1  0.2930  0.52  0.22  1.00  334.0  15.0  293.1  2.0   0  0.00   67.  1001.    3 NAD-SFC NoSubs
 9  7  8 189  9  121.4 -9.000 -9.000 -9.000  386. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  294.8  2.0   0  0.00   61.  1001.    2 NAD-SFC NoSubs
 9  7  8 189 10  153.6 -9.000 -9.000 -9.000  594. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  296.4  2.0   0  0.00   56.  1000.    2 NAD-SFC NoSubs
 9  7  8 189 11  176.3 -9.000 -9.000 -9.000  786. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  298.1  2.0   0  0.00   51.  1000.    2 NAD-SFC NoSubs
 9  7  8 189 12  187.7 -9.000 -9.000 -9.000  956. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  299.2  2.0   0  0.00   47.   999.    2 NAD-SFC NoSubs
 9  7  8 189 13  188.7 -9.000 -9.000 -9.000 1084. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  300.5  2.0   0  0.00   44.   998.    2 NAD-SFC NoSubs
 9  7  8 189 14  179.1  0.120  1.817  0.010 1192.  100.     -1.0  0.2720  0.52  0.19  0.50  307.0  15.0  301.5  2.0   0  0.00   41.   997.    2 NAD-SFC NoSubs
 9  7  8 189 15  158.3  0.234  1.785  0.011 1280.  272.     -7.2  0.2930  0.52  0.19  1.50  345.0  15.0  302.2  2.0   0  0.00   39.   997.    2 NAD-SFC NoSubs
 9  7  8 189 16  127.5  0.333  1.688  0.012 1343.  462.    -25.8  0.2940  0.52  0.20  2.60    3.0  15.0  302.4  2.0   0  0.00   38.   997.    2 NAD-SFC NoSubs
 9  7  8 189 17   88.4 -9.000 -9.000 -9.000 1366. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  302.1  2.0   0  0.00   42.   997.    2 NAD-SFC NoSubs
 9  7  8 189 18   43.1  0.351  1.185  0.011 1376.  499.    -89.1  0.2940  0.52  0.27  3.10    6.0  15.0  301.2  2.0   0  0.00   53.   997.    2 NAD-SFC NoSubs
 9  7  8 189 19    0.4 -9.000 -9.000 -9.000 1374. -999. -99999.0  0.2235  0.52  0.46  0.00    0.0  15.0  300.1  2.0   0  0.00   57.   998.    3 NAD-SFC NoSubs
 9  7  8 189 20  -35.6  0.355 -9.000 -9.000 -999.  507.    111.5  0.2930  0.52  1.00  3.60  337.0  15.0  298.8  2.0   0  0.00   59.   998.    3 NAD-SFC NoSubs
 9  7  8 189 21  -35.0  0.347 -9.000 -9.000 -999.  491.    106.3  0.2720  0.52  1.00  3.60  321.0  15.0  297.5  2.0   0  0.00   61.   998.    3 NAD-SFC NoSubs
 9  7  8 189 22  -33.0  0.326 -9.000 -9.000 -999.  446.     93.2  0.2160  0.52  1.00  3.60  298.0  15.0  296.4  2.0   0  0.00   64.   999.    3 NAD-SFC NoSubs
 9  7  8 189 23  -33.1  0.325 -9.000 -9.000 -999.  446.     92.7  0.2160  0.52  1.00  3.60  278.0  15.0  294.9  2.0   0  0.00   69.   999.    3 NAD-SFC NoSubs
 9  7  8 189 24  -35.4  0.347 -9.000 -9.000 -999.  490.    104.9  0.2720  0.52  1.00  3.60  313.0  15.0  293.9  2.0   0  0.00   71.   999.    3 NAD-SFC NoSubs
 9  7  9 190  1  -36.3  0.355 -9.000 -9.000 -999.  507.    109.2  0.2930  0.52  1.00  3.60  333.0  15.0  292.9  2.0   0  0.00   75.   999.    3 NAD-SFC NoSubs
 9  7  9 190  2  -36.5  0.355 -9.000 -9.000 -999.  507.    108.8  0.2930  0.52  1.00  3.60  352.0  15.0  291.8  2.0   0  0.00   79.  1000.    3 NAD-SFC NoSubs
 9  7  9 190  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  290.9  2.0   0  0.00   82.  1000.    3 NAD-SFC NoSubs
 9  7  9 190  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  290.2  2.0   0  0.00   83.  1001.    3 NAD-SFC NoSubs
 9  7  9 190  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  289.8  2.0   0  0.00   85.  1001.    3 NAD-SFC NoSubs
 9  7  9 190  6   -5.4  0.144 -9.000 -9.000 -999.  132.     50.0  0.2940  0.52  0.49  1.50    7.0  15.0  289.6  2.0   0  0.00   85.  1002.    3 NAD-SFC NoSubs
 9  7  9 190  7   36.1  0.200  0.568  0.010  181.  214.    -19.7  0.2940  0.52  0.28  1.50    1.0  15.0  290.8  2.0   0  0.00   74.  1002.    3 NAD-SFC NoSubs
 9  7  9 190  8   81.5 -9.000 -9.000 -9.000  293. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  292.5  2.0   0  0.00   66.  1002.    3 NAD-SFC NoSubs
 9  7  9 190  9  121.0 -9.000 -9.000 -9.000  410. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  294.2  2.0   0  0.00   60.  1002.    2 NAD-SFC NoSubs
 9  7  9 190 10  153.1 -9.000 -9.000 -9.000  573. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  295.8  2.0   0  0.00   55.  1002.    2 NAD-SFC NoSubs
 9  7  9 190 11  175.9 -9.000 -9.000 -9.000  744. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  297.5  2.0   0  0.00   51.  1001.    2 NAD-SFC NoSubs
 9  7  9 190 12  187.6 -9.000 -9.000 -9.000  922. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  299.2  2.0   0  0.00   46.  1000.    2 NAD-SFC NoSubs
 9  7  9 190 13  188.6 -9.000 -9.000 -9.000 1066. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  300.5  2.0   0  0.00   42.  1000.    2 NAD-SFC NoSubs
 9  7  9 190 14  179.0 -9.000 -9.000 -9.000 1186. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.5  2.0   0  0.00   38.   999.    2 NAD-SFC NoSubs
 9  7  9 190 15  158.2  0.120  1.785  0.010 1282.  100.     -1.0  0.2930  0.52  0.19  0.50  358.0  15.0  302.2  2.0   0  0.00   36.   999.    2 NAD-SFC NoSubs
 9  7  9 190 16  127.6  0.229  1.689  0.010 1348.  262.     -8.3  0.2940  0.52  0.20  1.50    6.0  15.0  302.8  2.0   0  0.00   33.   999.    2 NAD-SFC NoSubs
 9  7  9 190 17   88.5  0.323  1.505  0.010 1375.  440.    -33.8  0.2940  0.52  0.22  2.60   14.0  15.0  302.5  2.0   0  0.00   35.   999.    2 NAD-SFC NoSubs
 9  7  9 190 18   43.2  0.305  1.189  0.010 1386.  404.    -58.5  0.2940  0.52  0.27  2.60   16.0  15.0  301.8  2.0   0  0.00   46.   999.    2 NAD-SFC NoSubs
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9	7	9	190	19	-2.0	0.320	-9.000	-9.000	-999.	435.	1446.3	0.2940	0.52	0.46	3.10	16.0	15.0	301.0	2.0	0	0.00	48.	999.	2	NAD-SFC	NoSubs
9	7	9	190	20	-25.4	0.252	-9.000	-9.000	-999.	306.	56.1	0.2940	0.52	1.00	2.60	25.0	15.0	299.8	2.0	0	0.00	51.	1000.	2	NAD-SFC	NoSubs
9	7	9	190	21	-3.9	0.101	-9.000	-9.000	-999.	98.	23.7	0.2930	0.52	1.00	1.00	351.0	15.0	298.8	2.0	0	0.00	55.	1000.	3	NAD-SFC	NoSubs
9	7	9	190	22	-21.8	0.231	-9.000	-9.000	-999.	266.	50.2	0.2160	0.52	1.00	2.60	274.0	15.0	297.2	2.0	0	0.00	61.	1000.	3	NAD-SFC	NoSubs
9	7	9	190	23	-33.2	0.325	-9.000	-9.000	-999.	446.	92.8	0.2160	0.52	1.00	3.60	270.0	15.0	295.4	2.0	0	0.00	69.	1001.	3	NAD-SFC	NoSubs
9	7	9	190	24	-28.5	0.278	-9.000	-9.000	-999.	353.	67.6	0.2160	0.52	1.00	3.10	284.0	15.0	294.2	2.0	0	0.00	74.	1001.	3	NAD-SFC	NoSubs
9	7	10	191	1	-35.6	0.347	-9.000	-9.000	-999.	490.	104.8	0.2720	0.52	1.00	3.60	305.0	15.0	293.6	2.0	0	0.00	77.	1001.	3	NAD-SFC	NoSubs
9	7	10	191	2	-35.7	0.347	-9.000	-9.000	-999.	490.	104.5	0.2720	0.52	1.00	3.60	321.0	15.0	292.8	2.0	0	0.00	82.	1001.	3	NAD-SFC	NoSubs
9	7	10	191	3	-37.5	0.354	-9.000	-9.000	-999.	506.	105.9	0.2930	0.52	1.00	3.60	342.0	15.0	291.9	2.0	0	0.00	87.	1001.	2	NAD-SFC	NoSubs
9	7	10	191	4	-32.1	0.303	-9.000	-9.000	-999.	402.	77.3	0.2930	0.52	1.00	3.10	354.0	15.0	291.2	2.0	0	0.00	89.	1001.	2	NAD-SFC	NoSubs
9	7	10	191	5	-25.8	0.251	-9.000	-9.000	-999.	304.	55.0	0.2930	0.52	1.00	2.60	351.0	15.0	290.6	2.0	0	0.00	91.	1002.	2	NAD-SFC	NoSubs
9	7	10	191	6	-12.7	0.256	-9.000	-9.000	-999.	312.	118.4	0.2930	0.52	0.49	2.60	349.0	15.0	290.6	2.0	0	0.00	88.	1003.	2	NAD-SFC	NoSubs
9	7	10	191	7	34.9	0.300	0.540	0.006	161.	394.	-69.3	0.2940	0.52	0.29	2.60	5.0	15.0	291.6	2.0	0	0.00	78.	1003.	2	NAD-SFC	NoSubs
9	7	10	191	8	80.8	0.167	0.852	0.008	274.	174.	-5.1	0.2930	0.52	0.22	1.00	350.0	15.0	293.8	2.0	0	0.00	68.	1003.	2	NAD-SFC	NoSubs
9	7	10	191	9	121.2	-9.000	-9.000	-9.000	385.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	295.5	2.0	0	0.00	62.	1003.	2	NAD-SFC	NoSubs
9	7	10	191	10	153.5	-9.000	-9.000	-9.000	583.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.2	2.0	0	0.00	57.	1003.	2	NAD-SFC	NoSubs
9	7	10	191	11	176.2	-9.000	-9.000	-9.000	778.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.8	2.0	0	0.00	52.	1003.	2	NAD-SFC	NoSubs
9	7	10	191	12	188.0	-9.000	-9.000	-9.000	960.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.4	2.0	0	0.00	47.	1002.	2	NAD-SFC	NoSubs
9	7	10	191	13	189.0	-9.000	-9.000	-9.000	1042.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.6	2.0	0	0.00	43.	1001.	2	NAD-SFC	NoSubs
9	7	10	191	14	179.4	0.122	1.773	0.011	1109.	103.	-1.0	0.2930	0.52	0.19	0.50	355.0	15.0	302.5	2.0	0	0.00	40.	1000.	2	NAD-SFC	NoSubs
9	7	10	191	15	158.6	0.182	1.729	0.011	1165.	186.	-3.4	0.2930	0.52	0.19	1.00	356.0	15.0	303.1	2.0	0	0.00	38.	1000.	2	NAD-SFC	NoSubs
9	7	10	191	16	127.9	0.229	1.630	0.011	1209.	263.	-8.3	0.2940	0.52	0.20	1.50	10.0	15.0	303.4	2.0	0	0.00	37.	999.	2	NAD-SFC	NoSubs
9	7	10	191	17	88.8	0.323	1.455	0.011	1238.	440.	-33.7	0.2940	0.52	0.22	2.60	12.0	15.0	303.4	2.0	0	0.00	38.	999.	2	NAD-SFC	NoSubs
9	7	10	191	18	43.6	0.305	1.152	0.011	1250.	405.	-58.1	0.2940	0.52	0.28	2.60	9.0	15.0	302.8	2.0	0	0.00	48.	999.	2	NAD-SFC	NoSubs
9	7	10	191	19	-1.6	0.374	-9.000	-9.000	-999.	549.	2900.8	0.2940	0.52	0.46	3.60	12.0	15.0	301.8	2.0	0	0.00	51.	1000.	2	NAD-SFC	NoSubs
9	7	10	191	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	300.5	2.0	0	0.00	54.	1000.	2	NAD-SFC	NoSubs
9	7	10	191	21	-31.2	0.303	-9.000	-9.000	-999.	401.	79.6	0.2930	0.52	1.00	3.10	334.0	15.0	299.5	2.0	0	0.00	57.	1000.	2	NAD-SFC	NoSubs
9	7	10	191	22	-37.7	0.373	-9.000	-9.000	-999.	546.	122.5	0.2160	0.52	1.00	4.10	289.0	15.0	297.2	2.0	0	0.00	65.	1001.	3	NAD-SFC	NoSubs
9	7	10	191	23	-34.0	0.325	-9.000	-9.000	-999.	447.	90.4	0.2160	0.52	1.00	3.60	291.0	15.0	295.4	2.0	0	0.00	72.	1001.	2	NAD-SFC	NoSubs
9	7	10	191	24	-36.4	0.347	-9.000	-9.000	-999.	490.	102.4	0.2720	0.52	1.00	3.60	304.0	15.0	294.8	2.0	0	0.00	74.	1002.	2	NAD-SFC	NoSubs
9	7	11	192	1	-31.1	0.296	-9.000	-9.000	-999.	389.	74.8	0.2720	0.52	1.00	3.10	316.0	15.0	294.2	2.0	0	0.00	77.	1002.	2	NAD-SFC	NoSubs
9	7	11	192	2	-32.0	0.303	-9.000	-9.000	-999.	400.	77.9	0.2930	0.52	1.00	3.10	352.0	15.0	293.4	2.0	0	0.00	81.	1003.	2	NAD-SFC	NoSubs
9	7	11	192	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	292.6	2.0	0	0.00	84.	1003.	2	NAD-SFC	NoSubs
9	7	11	192	4	-16.6	0.200	-9.000	-9.000	-999.	215.	43.2	0.2940	0.52	1.00	2.10	14.0	15.0	292.0	2.0	0	0.00	86.	1003.	2	NAD-SFC	NoSubs
9	7	11	192	5	-16.6	0.200	-9.000	-9.000	-999.	215.	43.1	0.2940	0.52	1.00	2.10	21.0	15.0	291.5	2.0	0	0.00	86.	1004.	2	NAD-SFC	NoSubs
9	7	11	192	6	-5.9	0.143	-9.000	-9.000	-999.	131.	45.0	0.2940	0.52	0.49	1.50	17.0	15.0	291.4	2.0	0	0.00	86.	1004.	2	NAD-SFC	NoSubs
9	7	11	192	7	34.8	-9.000	-9.000	-9.000	161.	-999.	-99999.0	0.2235	0.52	0.29	0.00	0.0	15.0	292.4	2.0	0	0.00	76.	1004.	2	NAD-SFC	NoSubs
9	7	11	192	8	80.7	0.110	0.840	0.009	263.	87.	-1.5	0.2930	0.52	0.22	0.50	341.0	15.0	294.2	2.0	0	0.00	68.	1004.	2	NAD-SFC	NoSubs
9	7	11	192	9	121.2	-9.000	-9.000	-9.000	362.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.4	2.0	0	0.00	59.	1004.	2	NAD-SFC	NoSubs
9	7	11	192	10	153.7	-9.000	-9.000	-9.000	552.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.2	2.0	0	0.00	53.	1004.	2	NAD-SFC	NoSubs
9	7	11	192	11	176.6	0.114	1.538	0.009	738.	92.	-1.0	0.2160	0.52	0.19	0.50	295.0	15.0	300.1	2.0	0	0.00	47.	1003.	2	NAD-SFC	NoSubs
9	7	11	192	12	188.5	-9.000	-9.000	-9.000	893.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.8	2.0	0	0.00	43.	1002.	2	NAD-SFC	NoSubs
9	7	11	192	13	189.6	0.123	1.748	0.010	1008.	104.	-1.0	0.2930	0.52	0.19	0.50	338.0	15.0	303.0	2.0	0	0.00	40.	1001.	2	NAD-SFC	NoSubs
9	7	11	192	14	180.1	0.238	1.760	0.010	1083.	279.	-6.7	0.2930	0.52	0.19	1.50	344.0	15.0	303.9	2.0	0	0.00	39.	1001.	2	NAD-SFC	NoSubs
9	7	11	192	15	159.1	0.340	1.721	0.010	1145.	477.	-22.1	0.2930	0.52	0.19	2.60	354.0	15.0	304.2	2.0	0	0.00	38.	1000.	2	NAD-SFC	NoSubs
9	7	11	192	16	128.3	0.380	1.624	0.010	1192.	562.	-38.1	0.2940	0.52	0.20	3.10	2.0	15.0	304.4	2.0	0	0.00	39.	1000.	2	NAD-SFC	NoSubs
9	7	11	192	17	89.0	-9.000	-9.000	-9.000	1223.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	304.0	2.0	0	0.00	46.	1000.	2	NAD-SFC	NoSubs
9	7	11	192	18	43.8	0.351	1.150	0.010	1238.	499.	-87.8	0.2930	0.52	0.28	3.10	359.0	15.0	303.5	2.0	0	0.00	53.	1000.	2	NAD-SFC	NoSubs
9	7	11	192	19	-1.0	0.374	-9.000	-9.000	-999.	550.	4737.4	0.2930	0.52	0.46	3.60	354.0	15.0	302.5	2.0	0	0.00	55.	1001.	2	NAD-SFC	NoSubs
9	7	11	192	20	-41.7	0.406	-9.000	-9.000	-999.	620.	143.1	0.2930	0.52	1.00	4.10	338.0	15.0	300.4	2.0	0	0.00	61.	1001.	2	NAD-SFC	NoSubs
9	7	11	192	21	-42.1	0.406	-9.000	-9.000	-999.	621.	141.8	0.2930	0.52	1.00	4.10	330.0	15.0	297.8	2.0	0	0.00	72.	1002.	2	NAD-SFC	NoSubs
9	7	11	192	22	-35.3	0.347	-9.000	-9.000	-999.	493.	105.8	0.2720	0.52	1.00	3.60	322.0	15.0	296.1	2.0	0	0.00	77.	1003.	3	NAD-SFC	NoSubs
9	7	11	192	23	-30.3	0.297	-9.000	-9.000	-999.	389.	77.1	0.2720	0.52	1.00	3.10	323.0	15.0	295.1	2.0	0	0.00	79.	1004.	3	NAD-SFC	NoSubs
9	7	11	192	24	-31.2	0.296	-9.000	-9.000	-999.	387.	74.8	0.2720	0.52	1.00	3.10	326.0	15.0	294.2	2.0	0	0.00	81.	1004.	2	NAD-SFC	NoSubs
9	7	12	193	1	-25.7	0.252	-9.000	-9.000	-999.	304.	55.4	0.2930	0.52	1.00	2.60	353.0	15.0	293.5	2.0	0	0.00	81.	1004.	2	NAD-SFC	NoSubs
9	7	12	193	2	-16.4	0.200	-9.000	-9.000	-999.	216.	43.9	0.2940	0.52	1.00	2.10	13.0	15.0	292.9	2.0	0	0.00	82.	1004.	3	NAD-SFC	NoSubs
9	7	12	193	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	292.2	2.0	0	0.00	83.	1005.	3	NAD-SFC	NoSubs
9	7	12	193	4	-4.0	0.102	-9.000	-9.000	-999.	78.	23.6	0.2930	0.52	1.00	1.00	354.0	15.0	291.8	2.0	0	0.00	84.	1005.	2	NAD-SFC	NoSubs
9	7	12	193	5	-1.7	0.084	-9.000	-9.000	-999.	58.	32.0	0.2930	0.52	1.00	0.50	357.0	15.0	291.4	2.0	0	0.00	85.	1005.	2	NAD-SFC	NoSubs
9	7	12	193	6	-6.0	0.143	-9.000	-9.000	-999.	130.	43.9	0.2930	0.52	0.50	1.50	360.0	15.0	291.2	2.0	0	0.00	83.	1005.	2	NAD-SFC	NoSubs
9	7	12	193	7	34.3	0.199	0.551	0.010	174.	212.	-20.5	0.2930	0.52	0.29	1.50	360.0	15.0	292.2	2.0	0	0.00	72.	1006.	2	NAD-SFC	NoSubs
9	7	12	193	8	80.3	0.109	0.867	0.009	291.	90.	-1.5	0.2930	0.52	0.22	0.50	334.0	15.0	294.0	2.0	0	0.00	63.	1005.	2	NAD-SFC	NoSubs
9	7	12	193	9	120.7	-9.000	-9.000	-9.000	417.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	295.6	2.0	0	0.00	59.	1005.	2	NAD-SFC	NoSubs
9	7	12	193	10	153.2	-9.000	-9.000	-9.000	572.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.5	2.0	0	0.00	53.	1005.	2	NAD-SFC	NoSubs
9	7	12	193	11	176.1	0.120	1.516	0.010	710.	100.	-1.0	0.2720	0.52	0.19	0.50	319.0	15.0	299.2	2.0	0	0.00	49.	1004.	2	NAD-SFC	NoSubs
9	7	12	193	12	187.9	0.123	1.633	0.011	831.	104.	-1.0	0.2930	0.52	0.19	0.50	337.0	15.0	300.8	2.0	0	0.00	46.	1004.	2	NAD-SFC	NoSubs
9	7	12	193	13	189.0	0.240	1.705	0.011	939.	282.	-6.5	0.2930	0.52	0.19	1.50	336.0	15.0	302.1	2.0	0	0.00	44.	1003.	2	NAD-SFC	NoSubs
9	7	12	193	14	179.5	0.297	1.722	0.012	1018.	388.	-13.0	0.2930	0.52	0.19	2.10	347.0	15.0	303.0	2.0	0	0.00	42.	1002.	2	NAD-SFC	NoSubs
9	7	12	193	15	158.6	0.341	1.684	0.012	1077.	477.	-22.2	0.2940	0.52	0.19	2.60	1.0	15.0	303.5	2.0	0	0.00	42.	1002.	2	NAD-SFC	NoSubs
9	7	12	193	16	127.8	-9.000	-9.000	-9.000	1122.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	303.6	2.0	0	0.00	44.	1002.	2	NAD-SFC	NoSubs
9	7	12	193	17	88.5	-9.000	-9.000	-9.000	1151.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	303.2	2.0	0	0.00	50.	1002.	2	NAD-SFC	NoSubs
9	7	12	193	18	43.2	0.351	1.120	0.012	1164.	498.	-89.3	0.2940	0.52	0.28	3.10	3.0	15.0	302.5	2.0	0	0.00	59.	1002.	2	NAD-SFC	NoSubs
9	7	12	193	19	-5.0	0.423	-9.000	-9.000	-999.	660.	1365.2	0.2930	0.52	0.46	4.10	340.0	15.0	300.4	2.0	0	0.00	65.	1002.	2	NAD-SFC	NoSubs
9	7	12	193	20	-46.4	0.458	-9.000	-9.000	-999.	743.	185.0	0.2930	0.52	1.00	4.60	344.0	15.0	297.8	2.0	0	0.00	72.	1003.	3	NAD-SFC	NoSubs
9	7	12	193	21	-35.3	0.347	-9.000	-9.000	-999.	499.	105.8	0.2720	0.52	1.00	3.60	328.0	15.0	296.2	2.0	0	0.00	74.	1003.	3	NAD-SFC	NoSubs
9	7	12	193	22	-30.3	0.297	-9.000	-9.000	-999.	389.	77.2	0.2720	0.52	1.00	3.10	323.0	15.0	295.6	2.0	0	0.00	73.	1003.	3	NAD-SFC	NoSubs
9	7	12	193	23	-24.4	0.246	-9.000	-9.000	-999.	294.	54.7	0.2720	0.52	1.00	2.60	322.0	15.0	295.2	2.0	0	0.00	72.	1003.	3	NAD-SFC	NoSubs

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 9  7 12 193 24   -7.8  0.137 -9.000 -9.000 -999.  128.     29.2  0.2720  0.52  1.00  1.50 325.0  15.0 294.9  2.0    0  0.00   71.  1003.     3 NAD-SFC NoSubs
 9  7 13 194  1   -8.1  0.140 -9.000 -9.000 -999.  125.     30.0  0.2930  0.52  1.00  1.50 349.0  15.0 294.4  2.0    0  0.00   73.  1003.     3 NAD-SFC NoSubs
 9  7 13 194  2   -8.3  0.140 -9.000 -9.000 -999.  126.     29.7  0.2940  0.52  1.00  1.50  19.0  15.0 293.9  2.0    0  0.00   75.  1003.     2 NAD-SFC NoSubs
 9  7 13 194  3   -8.3  0.140 -9.000 -9.000 -999.  126.     29.6  0.2940  0.52  1.00  1.50  18.0  15.0 293.2  2.0    0  0.00   77.  1003.     2 NAD-SFC NoSubs
 9  7 13 194  4   -8.3  0.140 -9.000 -9.000 -999.  126.     29.6  0.2940  0.52  1.00  1.50  16.0  15.0 292.4  2.0    0  0.00   80.  1003.     2 NAD-SFC NoSubs
 9  7 13 194  5   -4.0  0.102 -9.000 -9.000 -999.   79.     23.7  0.2940  0.52  1.00  1.00  19.0  15.0 291.8  2.0    0  0.00   82.  1003.     2 NAD-SFC NoSubs
 9  7 13 194  6   -2.6  0.093 -9.000 -9.000 -999.   69.     27.8  0.2940  0.52  0.50  1.00   8.0  15.0 291.4  2.0    0  0.00   82.  1003.     2 NAD-SFC NoSubs
 9  7 13 194  7   34.1 -9.000 -9.000 -9.000  157. -999. -99999.0  0.2235  0.52  0.29  0.00   0.0  15.0 292.6  2.0    0  0.00   71.  1003.     2 NAD-SFC NoSubs
 9  7 13 194  8   80.1 -9.000 -9.000 -9.000  283. -999. -99999.0  0.2235  0.52  0.22  0.00   0.0  15.0 294.6  2.0    0  0.00   62.  1003.     2 NAD-SFC NoSubs
 9  7 13 194  9  120.8 -9.000 -9.000 -9.000  429. -999. -99999.0  0.2235  0.52  0.20  0.00   0.0  15.0 296.6  2.0    0  0.00   54.  1003.     2 NAD-SFC NoSubs
 9  7 13 194 10  153.4 -9.000 -9.000 -9.000  594. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 298.5  2.0    0  0.00   49.  1002.     2 NAD-SFC NoSubs
 9  7 13 194 11  176.5 -9.000 -9.000 -9.000  738. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 300.5  2.0    0  0.00   44.  1002.     2 NAD-SFC NoSubs
 9  7 13 194 12  188.4 -9.000 -9.000 -9.000  864. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 302.1  2.0    0  0.00   41.  1001.     2 NAD-SFC NoSubs
 9  7 13 194 13  189.6 -9.000 -9.000 -9.000  975. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 303.4  2.0    0  0.00   39.  1000.     2 NAD-SFC NoSubs
 9  7 13 194 14  180.2  0.122  1.738  0.011 1040.  103.     -1.0  0.2930  0.52  0.19  0.50 352.0  15.0 304.5  2.0    0  0.00   37.   999.     2 NAD-SFC NoSubs
 9  7 13 194 15  159.4  0.234  1.698  0.011 1095.  272.     -7.2  0.2930  0.52  0.19  1.50 357.0  15.0 305.1  2.0    0  0.00   36.   998.     2 NAD-SFC NoSubs
 9  7 13 194 16  128.5 -9.000 -9.000 -9.000 1137. -999. -99999.0  0.2235  0.52  0.20  0.00   0.0  15.0 305.2  2.0    0  0.00   37.   998.     2 NAD-SFC NoSubs
 9  7 13 194 17   89.3  0.323  1.429  0.010 1165.  440.    -33.6  0.2940  0.52  0.22  2.60  14.0  15.0 305.0  2.0    0  0.00   41.   998.     2 NAD-SFC NoSubs
 9  7 13 194 18   44.0 -9.000 -9.000 -9.000 1178. -999. -99999.0  0.2235  0.52  0.28  0.00   0.0  15.0 304.5  2.0    0  0.00   48.   998.     2 NAD-SFC NoSubs
 9  7 13 194 19   -0.4  0.270 -9.000 -9.000 -999.  337.   4059.9  0.2930  0.52  0.46  2.60 352.0  15.0 303.6  2.0    0  0.00   50.   998.     2 NAD-SFC NoSubs
 9  7 13 194 20  -16.2  0.200 -9.000 -9.000 -999.  216.     44.0  0.2930  0.52  1.00  2.10 330.0  15.0 302.5  2.0    0  0.00   52.   998.     2 NAD-SFC NoSubs
 9  7 13 194 21  -48.0  0.468 -9.000 -9.000 -999.  768.    189.8  0.2160  0.52  1.00  5.10 278.0  15.0 300.2  2.0    0  0.00   60.   998.     2 NAD-SFC NoSubs
 9  7 13 194 22  -41.4  0.398 -9.000 -9.000 -999.  606.    135.6  0.1750  0.52  1.00  4.60 269.0  15.0 296.4  2.0    0  0.00   71.   999.     2 NAD-SFC NoSubs
 9  7 13 194 23  -34.0  0.325 -9.000 -9.000 -999.  449.     90.3  0.2160  0.52  1.00  3.60 277.0  15.0 295.2  2.0    0  0.00   72.   999.     2 NAD-SFC NoSubs
 9  7 13 194 24  -29.1  0.278 -9.000 -9.000 -999.  353.     65.9  0.2160  0.52  1.00  3.10 298.0  15.0 294.8  2.0    0  0.00   73.   999.     2 NAD-SFC NoSubs
 9  7 14 195  1  -15.8  0.195 -9.000 -9.000 -999.  210.     42.0  0.2720  0.52  1.00  2.10 318.0  15.0 294.2  2.0    0  0.00   72.   999.     2 NAD-SFC NoSubs
 9  7 14 195  2   -4.0  0.102 -9.000 -9.000 -999.   82.     23.6  0.2930  0.52  1.00  1.00 343.0  15.0 293.9  2.0    0  0.00   73.   999.     2 NAD-SFC NoSubs
 9  7 14 195  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00   0.0  15.0 293.6  2.0    0  0.00   73.   999.     2 NAD-SFC NoSubs
 9  7 14 195  4   -1.6  0.084 -9.000 -9.000 -999.   58.     31.9  0.2930  0.52  1.00  0.50 351.0  15.0 293.2  2.0    0  0.00   73.   999.     2 NAD-SFC NoSubs
 9  7 14 195  5   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.2160  0.52  1.00  0.50 278.0  15.0 293.0  2.0    0  0.00   74.  1000.     2 NAD-SFC NoSubs
 9  7 14 195  6   -2.1  0.082 -9.000 -9.000 -999.   57.     23.6  0.1750  0.52  0.50  1.00 263.0  15.0 293.0  2.0    0  0.00   74.  1000.     2 NAD-SFC NoSubs
 9  7 14 195  7   34.6  0.238  0.499  0.008  128.  279.    -34.8  0.2160  0.52  0.29  2.10 292.0  15.0 295.2  2.0    0  0.00   63.  1000.     2 NAD-SFC NoSubs
 9  7 14 195  8   80.7  0.156  0.812  0.009  237.  150.     -4.2  0.2160  0.52  0.22  1.00 295.0  15.0 297.1  2.0    0  0.00   57.  1000.     2 NAD-SFC NoSubs
 9  7 14 195  9  121.3  0.108  1.070  0.006  360.   86.     -1.0  0.2160  0.52  0.20  0.50 292.0  15.0 298.8  2.0    0  0.00   51.  1000.     2 NAD-SFC NoSubs
 9  7 14 195 10  154.1 -9.000 -9.000 -9.000  566. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 300.6  2.0    0  0.00   48.   999.     2 NAD-SFC NoSubs
 9  7 14 195 11  177.3 -9.000 -9.000 -9.000  766. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 302.6  2.0    0  0.00   42.   999.     2 NAD-SFC NoSubs
 9  7 14 195 12  189.3 -9.000 -9.000 -9.000  939. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 304.2  2.0    0  0.00   38.   998.     2 NAD-SFC NoSubs
 9  7 14 195 13  190.6  0.115  1.767  0.009 1031.   94.     -1.0  0.2160  0.52  0.19  0.50 278.0  15.0 305.5  2.0    0  0.00   34.   997.     2 NAD-SFC NoSubs
 9  7 14 195 14  181.2  0.121  1.774  0.009 1098.  100.     -1.0  0.2720  0.52  0.19  0.50 310.0  15.0 306.5  2.0    0  0.00   31.   997.     2 NAD-SFC NoSubs
 9  7 14 195 15  160.5  0.119  1.733  0.008 1154.   98.     -1.0  0.2720  0.52  0.19  0.50 324.0  15.0 307.2  2.0    0  0.00   29.   996.     2 NAD-SFC NoSubs
 9  7 14 195 16  130.0  0.115  1.636  0.008 1198.   93.     -1.0  0.2720  0.52  0.20  0.50 316.0  15.0 308.0  2.0    0  0.00   25.   996.     2 NAD-SFC NoSubs
 9  7 14 195 17   90.9  0.169  1.464  0.007 1227.  167.     -4.7  0.2930  0.52  0.22  1.00 338.0  15.0 308.0  2.0    0  0.00   26.   996.     2 NAD-SFC NoSubs
 9  7 14 195 18   45.6  0.201  1.167  0.007 1241.  216.    -15.8  0.2720  0.52  0.28  1.50 327.0  15.0 307.8  2.0    0  0.00   33.   997.     2 NAD-SFC NoSubs
 9  7 14 195 19    0.6  0.459  0.278  0.007 1237.  747.  -8888.0  0.2720  0.52  0.47  4.60 305.0  15.0 305.4  2.0    0  0.00   43.   997.     2 NAD-SFC NoSubs
 9  7 14 195 20  -38.2  0.373 -9.000 -9.000 -999.  552.    120.7  0.2160  0.52  1.00  4.10 291.0  15.0 300.8  2.0    0  0.00   59.   998.     2 NAD-SFC NoSubs
 9  7 14 195 21  -35.8  0.347 -9.000 -9.000 -999.  491.    103.9  0.2720  0.52  1.00  3.60 305.0  15.0 298.8  2.0    0  0.00   63.   999.     2 NAD-SFC NoSubs
 9  7 14 195 22  -30.7  0.297 -9.000 -9.000 -999.  389.     75.6  0.2720  0.52  1.00  3.10 306.0  15.0 297.2  2.0    0  0.00   64.   999.     2 NAD-SFC NoSubs
 9  7 14 195 23  -30.8  0.297 -9.000 -9.000 -999.  388.     75.4  0.2720  0.52  1.00  3.10 326.0  15.0 296.4  2.0    0  0.00   64.   999.     2 NAD-SFC NoSubs
 9  7 14 195 24  -36.9  0.354 -9.000 -9.000 -999.  506.    107.3  0.2930  0.52  1.00  3.60 350.0  15.0 295.6  2.0    0  0.00   65.   999.     2 NAD-SFC NoSubs
 9  7 15 196  1  -37.1  0.355 -9.000 -9.000 -999.  507.    107.3  0.2940  0.52  1.00  3.60  10.0  15.0 294.9  2.0    0  0.00   67.   999.     2 NAD-SFC NoSubs
 9  7 15 196  2  -37.2  0.355 -9.000 -9.000 -999.  507.    107.0  0.2940  0.52  1.00  3.60  24.0  15.0 294.2  2.0    0  0.00   69.  1000.     2 NAD-SFC NoSubs
 9  7 15 196  3  -37.3  0.355 -9.000 -9.000 -999.  507.    106.8  0.2940  0.52  1.00  3.60  28.0  15.0 293.6  2.0    0  0.00   71.  1000.     2 NAD-SFC NoSubs
 9  7 15 196  4  -31.9  0.303 -9.000 -9.000 -999.  402.     78.0  0.2940  0.52  1.00  3.10  18.0  15.0 293.1  2.0    0  0.00   72.  1000.     2 NAD-SFC NoSubs
 9  7 15 196  5  -16.5  0.200 -9.000 -9.000 -999.  220.     43.2  0.2940  0.52  1.00  2.10  24.0  15.0 292.9  2.0    0  0.00   71.  1000.     2 NAD-SFC NoSubs
 9  7 15 196  6   -6.1  0.143 -9.000 -9.000 -999.  130.     42.5  0.2940  0.52  0.51  1.50  18.0  15.0 293.0  2.0    0  0.00   70.  1001.     2 NAD-SFC NoSubs
 9  7 15 196  7   34.1  0.151  0.469  0.013  108.  140.     -8.9  0.2930  0.52  0.29  1.00 334.0  15.0 295.1  2.0    0  0.00   59.  1002.     2 NAD-SFC NoSubs
 9  7 15 196  8   80.3 -9.000 -9.000 -9.000  208. -999. -99999.0  0.2235  0.52  0.22  0.00   0.0  15.0 297.0  2.0    0  0.00   54.  1002.     2 NAD-SFC NoSubs
 9  7 15 196  9  121.3 -9.000 -9.000 -9.000  342. -999. -99999.0  0.2235  0.52  0.20  0.00   0.0  15.0 299.2  2.0    0  0.00   47.  1002.     2 NAD-SFC NoSubs
 9  7 15 196 10  154.1 -9.000 -9.000 -9.000  498. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 301.2  2.0    0  0.00   43.  1001.     2 NAD-SFC NoSubs
 9  7 15 196 11  177.3 -9.000 -9.000 -9.000  653. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 303.1  2.0    0  0.00   40.  1001.     2 NAD-SFC NoSubs
 9  7 15 196 12  189.6 -9.000 -9.000 -9.000  803. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 305.0  2.0    0  0.00   36.  1000.     2 NAD-SFC NoSubs
 9  7 15 196 13  191.0 -9.000 -9.000 -9.000  931. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 306.5  2.0    0  0.00   32.  1000.     2 NAD-SFC NoSubs
 9  7 15 196 14  181.7  0.121  1.737  0.008 1029.  100.     -1.0  0.2720  0.52  0.19  0.50 323.0  15.0 307.8  2.0    0  0.00   29.   999.     2 NAD-SFC NoSubs
 9  7 15 196 15  161.1  0.182  1.707  0.008 1103.  186.     -3.3  0.2930  0.52  0.19  1.00 338.0  15.0 308.5  2.0    0  0.00   28.   999.     2 NAD-SFC NoSubs
 9  7 15 196 16  130.4  0.229  1.618  0.008 1159.  263.     -8.2  0.2930  0.52  0.20  1.50 348.0  15.0 308.9  2.0    0  0.00   27.   999.     2 NAD-SFC NoSubs
 9  7 15 196 17   91.0  0.277  1.450  0.008 1195.  350.    -20.9  0.2930  0.52  0.22  2.10 358.0  15.0 308.5  2.0    0  0.00   33.   999.     2 NAD-SFC NoSubs
 9  7 15 196 18   45.6  0.352  1.157  0.008 1212.  500.    -85.0  0.2930  0.52  0.28  3.10 331.0  15.0 308.0  2.0    0  0.00   40.   999.     2 NAD-SFC NoSubs
 9  7 15 196 19    0.3  0.459  0.215  0.008 1206.  746.  -8888.0  0.2720  0.52  0.47  4.60 302.0  15.0 305.2  2.0    0  0.00   46.  1000.     2 NAD-SFC NoSubs
 9  7 15 196 20  -38.2  0.373 -9.000 -9.000 -999.  552.    121.0  0.2160  0.52  1.00  4.10 294.0  15.0 301.4  2.0    0  0.00   55.  1001.     2 NAD-SFC NoSubs
 9  7 15 196 21  -33.6  0.325 -9.000 -9.000 -999.  447.     91.5  0.2160  0.52  1.00  3.60 289.0  15.0 299.0  2.0    0  0.00   60.  1001.     2 NAD-SFC NoSubs
 9  7 15 196 22  -33.7  0.325 -9.000 -9.000 -999.  445.     91.1  0.2160  0.52  1.00  3.60 293.0  15.0 297.8  2.0    0  0.00   62.  1001.     2 NAD-SFC NoSubs
 9  7 15 196 23  -30.8  0.297 -9.000 -9.000 -999.  388.     75.6  0.2720  0.52  1.00  3.10 322.0  15.0 297.2  2.0    0  0.00   62.  1002.     2 NAD-SFC NoSubs
 9  7 15 196 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00   0.0  15.0 296.6  2.0    0  0.00   62.  1002.     2 NAD-SFC NoSubs
 9  7 16 197  1  -42.5  0.406 -9.000 -9.000 -999.  621.    141.1  0.2940  0.52  1.00  4.10   6.0  15.0 295.8  2.0    0  0.00   65.  1003.     2 NAD-SFC NoSubs
 9  7 16 197  2  -42.6  0.406 -9.000 -9.000 -999.  621.    140.6  0.2940  0.52  1.00  4.10  10.0  15.0 294.8  2.0    0  0.00   70.  1003.     2 NAD-SFC NoSubs
 9  7 16 197  3  -37.3  0.355 -9.000 -9.000 -999.  509.    106.9  0.2940  0.52  1.00  3.60  10.0  15.0 293.9  2.0    0  0.00   72.  1003.     2 NAD-SFC NoSubs
 9  7 16 197  4  -32.0  0.303 -9.000 -9.000 -999.  403.     78.1  0.2940  0.52  1.00  3.10   6.0  15.0 293.8  2.0    0  0.00   71.  1004.     2 NAD-SFC NoSubs
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9	7	16	197	5	-16.5	0.200	-9.000	-9.000	-999.	220.	43.3	0.2940	0.52	1.00	2.10	24.0	15.0	293.8	2.0	0	0.00	69.	1004.	2	NAD-SFC NoSubs
9	7	16	197	6	-2.7	0.094	-9.000	-9.000	-999.	76.	27.2	0.2940	0.52	0.51	1.00	20.0	15.0	293.8	2.0	0	0.00	69.	1004.	2	NAD-SFC NoSubs
9	7	16	197	7	33.9	0.150	0.488	0.014	122.	140.	-9.0	0.2930	0.52	0.29	1.00	345.0	15.0	295.8	2.0	0	0.00	59.	1004.	2	NAD-SFC NoSubs
9	7	16	197	8	80.2	-9.000	-9.000	-9.000	216.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	297.5	2.0	0	0.00	54.	1004.	2	NAD-SFC NoSubs
9	7	16	197	9	121.2	-9.000	-9.000	-9.000	336.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	299.8	2.0	0	0.00	47.	1004.	2	NAD-SFC NoSubs
9	7	16	197	10	154.0	-9.000	-9.000	-9.000	473.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.4	2.0	0	0.00	44.	1004.	2	NAD-SFC NoSubs
9	7	16	197	11	177.2	-9.000	-9.000	-9.000	618.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.2	2.0	0	0.00	40.	1003.	2	NAD-SFC NoSubs
9	7	16	197	12	189.3	-9.000	-9.000	-9.000	779.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	304.8	2.0	0	0.00	36.	1003.	2	NAD-SFC NoSubs
9	7	16	197	13	190.6	0.123	1.703	0.008	928.	104.	-1.0	0.2930	0.52	0.19	0.50	339.0	15.0	306.1	2.0	0	0.00	35.	1002.	2	NAD-SFC NoSubs
9	7	16	197	14	181.3	0.185	1.737	0.008	1034.	191.	-3.1	0.2930	0.52	0.19	1.00	344.0	15.0	307.2	2.0	0	0.00	33.	1001.	2	NAD-SFC NoSubs
9	7	16	197	15	160.5	0.235	1.709	0.008	1112.	273.	-7.2	0.2930	0.52	0.19	1.50	354.0	15.0	307.8	2.0	0	0.00	32.	1001.	2	NAD-SFC NoSubs
9	7	16	197	16	129.7	0.333	1.620	0.008	1171.	462.	-25.5	0.2930	0.52	0.20	2.60	352.0	15.0	308.0	2.0	0	0.00	32.	1001.	2	NAD-SFC NoSubs
9	7	16	197	17	90.2	0.323	1.451	0.008	1209.	441.	-33.4	0.2940	0.52	0.22	2.60	3.0	15.0	307.5	2.0	0	0.00	40.	1000.	2	NAD-SFC NoSubs
9	7	16	197	18	44.7	0.306	1.154	0.008	1227.	406.	-57.0	0.2940	0.52	0.28	2.60	1.0	15.0	307.0	2.0	0	0.00	46.	1001.	2	NAD-SFC NoSubs
9	7	16	197	19	0.5	0.265	0.260	0.008	1225.	329.	-3255.4	0.2930	0.52	0.47	2.60	358.0	15.0	306.0	2.0	0	0.00	48.	1001.	2	NAD-SFC NoSubs
9	7	16	197	20	-15.6	0.196	-9.000	-9.000	-999.	209.	42.9	0.2720	0.52	1.00	2.10	326.0	15.0	304.9	2.0	0	0.00	51.	1001.	2	NAD-SFC NoSubs
9	7	16	197	21	-47.8	0.468	-9.000	-9.000	-999.	768.	191.3	0.2160	0.52	1.00	5.10	286.0	15.0	302.5	2.0	0	0.00	57.	1002.	2	NAD-SFC NoSubs
9	7	16	197	22	-43.4	0.420	-9.000	-9.000	-999.	656.	152.4	0.2160	0.52	1.00	4.60	279.0	15.0	298.9	2.0	0	0.00	65.	1002.	2	NAD-SFC NoSubs
9	7	16	197	23	-38.7	0.373	-9.000	-9.000	-999.	548.	119.4	0.2160	0.52	1.00	4.10	295.0	15.0	297.6	2.0	0	0.00	66.	1002.	2	NAD-SFC NoSubs
9	7	16	197	24	-29.0	0.278	-9.000	-9.000	-999.	357.	66.3	0.2160	0.52	1.00	3.10	297.0	15.0	296.6	2.0	0	0.00	67.	1002.	2	NAD-SFC NoSubs
9	7	17	198	1	-24.7	0.246	-9.000	-9.000	-999.	293.	54.0	0.2720	0.52	1.00	2.60	306.0	15.0	295.9	2.0	0	0.00	68.	1003.	2	NAD-SFC NoSubs
9	7	17	198	2	-7.9	0.137	-9.000	-9.000	-999.	127.	28.9	0.2720	0.52	1.00	1.50	328.0	15.0	295.6	2.0	0	0.00	67.	1003.	2	NAD-SFC NoSubs
9	7	17	198	3	-4.0	0.102	-9.000	-9.000	-999.	78.	23.6	0.2930	0.52	1.00	1.00	330.0	15.0	295.4	2.0	0	0.00	66.	1003.	2	NAD-SFC NoSubs
9	7	17	198	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	295.2	2.0	0	0.00	65.	1003.	2	NAD-SFC NoSubs
9	7	17	198	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	295.2	2.0	0	0.00	66.	1003.	2	NAD-SFC NoSubs
9	7	17	198	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.51	0.00	0.0	15.0	295.1	2.0	0	0.00	69.	1004.	2	NAD-SFC NoSubs
9	7	17	198	7	33.8	0.098	0.501	0.010	132.	73.	-2.5	0.2940	0.52	0.29	0.50	25.0	15.0	296.6	2.0	0	0.00	66.	1004.	2	NAD-SFC NoSubs
9	7	17	198	8	80.2	-9.000	-9.000	-9.000	286.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	298.4	2.0	0	0.00	63.	1004.	2	NAD-SFC NoSubs
9	7	17	198	9	121.0	-9.000	-9.000	-9.000	433.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	300.0	2.0	0	0.00	59.	1003.	2	NAD-SFC NoSubs
9	7	17	198	10	154.0	-9.000	-9.000	-9.000	569.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.9	2.0	0	0.00	54.	1003.	2	NAD-SFC NoSubs
9	7	17	198	11	177.2	-9.000	-9.000	-9.000	713.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.8	2.0	0	0.00	49.	1003.	2	NAD-SFC NoSubs
9	7	17	198	12	189.4	-9.000	-9.000	-9.000	879.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	305.2	2.0	0	0.00	44.	1002.	2	NAD-SFC NoSubs
9	7	17	198	13	190.7	-9.000	-9.000	-9.000	1003.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	306.6	2.0	0	0.00	41.	1001.	2	NAD-SFC NoSubs
9	7	17	198	14	181.3	-9.000	-9.000	-9.000	1081.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	307.5	2.0	0	0.00	39.	1000.	2	NAD-SFC NoSubs
9	7	17	198	15	160.5	0.182	1.727	0.010	1146.	186.	-3.3	0.2930	0.52	0.19	1.00	346.0	15.0	308.0	2.0	0	0.00	38.	1000.	2	NAD-SFC NoSubs
9	7	17	198	16	129.7	-9.000	-9.000	-9.000	1196.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	308.2	2.0	0	0.00	38.	999.	2	NAD-SFC NoSubs
9	7	17	198	17	90.2	0.277	1.459	0.010	1228.	350.	-21.0	0.2940	0.52	0.22	2.10	6.0	15.0	307.9	2.0	0	0.00	44.	999.	2	NAD-SFC NoSubs
9	7	17	198	18	44.8	0.260	1.161	0.010	1243.	318.	-34.8	0.2940	0.52	0.28	2.10	6.0	15.0	307.6	2.0	0	0.00	50.	999.	2	NAD-SFC NoSubs
9	7	17	198	19	0.6	0.156	0.278	0.010	1241.	153.	-553.7	0.2930	0.52	0.47	1.50	355.0	15.0	306.6	2.0	0	0.00	52.	1000.	2	NAD-SFC NoSubs
9	7	17	198	20	-7.0	0.129	-9.000	-9.000	-999.	111.	27.1	0.2160	0.52	1.00	1.50	292.0	15.0	305.5	2.0	0	0.00	55.	1000.	2	NAD-SFC NoSubs
9	7	17	198	21	-47.7	0.468	-9.000	-9.000	-999.	768.	191.4	0.2160	0.52	1.00	5.10	282.0	15.0	302.6	2.0	0	0.00	62.	1000.	2	NAD-SFC NoSubs
9	7	17	198	22	-43.3	0.420	-9.000	-9.000	-999.	656.	152.7	0.2160	0.52	1.00	4.60	280.0	15.0	299.4	2.0	0	0.00	65.	1001.	2	NAD-SFC NoSubs
9	7	17	198	23	-33.7	0.325	-9.000	-9.000	-999.	451.	91.3	0.2160	0.52	1.00	3.60	288.0	15.0	298.2	2.0	0	0.00	64.	1001.	2	NAD-SFC NoSubs
9	7	17	198	24	-28.8	0.278	-9.000	-9.000	-999.	353.	66.6	0.2160	0.52	1.00	3.10	293.0	15.0	297.8	2.0	0	0.00	62.	1001.	2	NAD-SFC NoSubs
9	7	18	199	1	-15.8	0.195	-9.000	-9.000	-999.	210.	42.3	0.2720	0.52	1.00	2.10	303.0	15.0	297.5	2.0	0	0.00	61.	1001.	2	NAD-SFC NoSubs
9	7	18	199	2	-1.6	0.083	-9.000	-9.000	-999.	67.	31.8	0.2940	0.52	1.00	0.50	12.0	15.0	297.2	2.0	0	0.00	61.	1001.	2	NAD-SFC NoSubs
9	7	18	199	3	-1.5	0.080	-9.000	-9.000	-999.	54.	31.1	0.2090	0.52	1.00	0.50	62.0	15.0	297.1	2.0	0	0.00	60.	1001.	2	NAD-SFC NoSubs
9	7	18	199	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	296.8	2.0	0	0.00	61.	1001.	2	NAD-SFC NoSubs
9	7	18	199	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	296.2	2.0	0	0.00	65.	1001.	2	NAD-SFC NoSubs
9	7	18	199	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.52	0.00	0.0	15.0	296.0	2.0	0	0.00	68.	1001.	2	NAD-SFC NoSubs
9	7	18	199	7	33.9	-9.000	-9.000	-9.000	128.	-999.	-99999.0	0.2235	0.52	0.29	0.00	0.0	15.0	297.8	2.0	0	0.00	60.	1001.	2	NAD-SFC NoSubs
9	7	18	199	8	80.3	-9.000	-9.000	-9.000	258.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	299.6	2.0	0	0.00	57.	1001.	2	NAD-SFC NoSubs
9	7	18	199	9	121.5	-9.000	-9.000	-9.000	388.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	301.8	2.0	0	0.00	52.	1000.	2	NAD-SFC NoSubs
9	7	18	199	10	154.5	-9.000	-9.000	-9.000	596.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.5	2.0	0	0.00	49.	1000.	2	NAD-SFC NoSubs
9	7	18	199	11	177.8	-9.000	-9.000	-9.000	748.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	305.2	2.0	0	0.00	46.	1000.	2	NAD-SFC NoSubs
9	7	18	199	12	190.0	-9.000	-9.000	-9.000	873.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	306.8	2.0	0	0.00	43.	999.	2	NAD-SFC NoSubs
9	7	18	199	13	191.4	0.115	1.739	0.011	980.	93.	-1.0	0.2090	0.52	0.19	0.50	81.0	15.0	307.9	2.0	0	0.00	41.	998.	2	NAD-SFC NoSubs
9	7	18	199	14	182.1	0.114	1.746	0.011	1043.	92.	-1.0	0.2090	0.52	0.19	0.50	85.0	15.0	309.0	2.0	0	0.00	38.	998.	2	NAD-SFC NoSubs
9	7	18	199	15	161.4	0.121	1.706	0.010	1096.	101.	-1.0	0.2940	0.52	0.19	0.50	25.0	15.0	309.8	2.0	0	0.00	37.	997.	2	NAD-SFC NoSubs
9	7	18	199	16	130.6	0.178	1.609	0.010	1137.	180.	-3.8	0.2940	0.52	0.20	1.00	13.0	15.0	310.0	2.0	0	0.00	36.	997.	2	NAD-SFC NoSubs
9	7	18	199	17	91.1	0.212	1.439	0.009	1164.	235.	-9.3	0.2470	0.52	0.22	1.50	32.0	15.0	309.8	2.0	0	0.00	40.	997.	2	NAD-SFC NoSubs
9	7	18	199	18	45.7	0.306	1.147	0.009	1177.	407.	-55.9	0.2940	0.52	0.28	2.60	24.0	15.0	309.4	2.0	0	0.00	47.	997.	2	NAD-SFC NoSubs
9	7	18	199	19	1.4	0.368	0.362	0.009	1176.	535.	-3089.8	0.2930	0.52	0.47	3.60	344.0	15.0	308.4	2.0	0	0.00	50.	997.	2	NAD-SFC NoSubs
9	7	18	199	20	-47.2	0.468	-9.000	-9.000	-999.	768.	193.1	0.2160	0.52	1.00	5.10	294.0	15.0	305.2	2.0	0	0.00	56.	998.	2	NAD-SFC NoSubs
9	7	18	199	21	-42.9	0.420	-9.000	-9.000	-999.	656.	153.7	0.2160	0.52	1.00	4.60	271.0	15.0	301.2	2.0	0	0.00	60.	998.	2	NAD-SFC NoSubs
9	7	18	199	22	-38.3	0.373	-9.000	-9.000	-999.	548.	120.4	0.2160	0.52	1.00	4.10	275.0	15.0	299.9	2.0	0	0.00	61.	998.	2	NAD-SFC NoSubs
9	7	18	199	23	-33.5	0.325	-9.000	-9.000	-999.	447.	91.5	0.2160	0.52	1.00	3.60	277.0	15.0	299.0	2.0	0	0.00	62.	999.	2	NAD-SFC NoSubs
9	7	18	199	24	-7.9	0.137	-9.000	-9.000	-999.	157.	29.1	0.2720	0.52	1.00	1.50	327.0	15.0	298.8	2.0	0	0.00	61.	999.	2	NAD-SFC NoSubs
9	7	19	200	1	-7.5	0.133	-9.000	-9.000	-999.	117.	28.1	0.2470	0.52	1.00	1.50	34.0	15.0	298.5	2.0	0	0.00	61.	999.	2	NAD-SFC NoSubs
9	7	19	200	2	-4.0	0.102	-9.000	-9.000	-999.	78.	23.7	0.2940	0.52	1.00	1.00	25.0	15.0	298.2	2.0	0	0.00	62.	999.	2	NAD-SFC NoSubs
9	7	19	200	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	298.0	2.0	0	0.00	63.	999.	2	NAD-SFC NoSubs
9	7	19	200	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	297.6	2.0	0	0.00	66.	999.	2	NAD-SFC NoSubs
9	7	19	200	5	-1.6	0.083	-9.000	-9.000	-999.	57.	31.7	0.2720	0.52	1.00	0.50	305.0	15.0	297.2	2.0	0	0.00	69.	1000.	2	NAD-SFC NoSubs
9	7	19	200	6	-0.9	0.065	-9.000	-9.000	-999.	40.	26.5	0.2720	0.52	0.52	0.50	313.0	15.0	297.1	2.0	0	0.00	71.	1000.	2	NAD-SFC NoSubs
9	7	19	200	7	33.8	0.198	0.498	0.012	130.	212.	-20.6	0.2930	0.52	0.29	1.50	342.0	15.0	298.8	2.0	0	0.00	68.	1000.	2	NAD-SFC NoSubs
9	7	19	200	8	80.3	0.110	0.832	0.011	255.	90.	-1.5	0.2930	0.52	0.22	0.50	333.0	15.0	300.4	2.0	0	0.00	65.	1000.	2	NAD-SFC NoSubs
9	7	19	200	9	121.6	-9.000	-9.000	-9.000	377.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	302.6	2.0	0	0.00	58.	1000.	2	NAD-SFC NoSubs

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 9   7 19 200 10   154.7 -9.000 -9.000 -9.000   519. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 304.4  2.0    0  0.00   52.   999.    2 NAD-SFC NoSubs
 9   7 19 200 11   178.2 -9.000 -9.000 -9.000   650. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 306.2  2.0    0  0.00   47.   999.    2 NAD-SFC NoSubs
 9   7 19 200 12   190.6  0.121  1.610  0.010   780.  101.     -1.0 0.2720  0.52  0.19  0.50  306.0  15.0 307.9  2.0    0  0.00   42.   998.    2 NAD-SFC NoSubs
 9   7 19 200 13   192.0  0.121  1.688  0.009   894.  102.     -1.0 0.2720  0.52  0.19  0.50  306.0  15.0 309.2  2.0    0  0.00   37.   998.    2 NAD-SFC NoSubs
 9   7 19 200 14   182.7  0.185  1.718  0.008   989.  191.     -3.1 0.2930  0.52  0.19  1.00  350.0  15.0 310.2  2.0    0  0.00   34.   997.    2 NAD-SFC NoSubs
 9   7 19 200 15   162.1  0.236  1.691  0.007  1062.  274.     -7.2 0.2940  0.52  0.19  1.50   15.0  15.0 311.0  2.0    0  0.00   33.   997.    2 NAD-SFC NoSubs
 9   7 19 200 16   130.9  0.380  1.601  0.006  1116.  563.    -37.4 0.2940  0.52  0.20  3.10   21.0  15.0 310.8  2.0    0  0.00   33.   997.    2 NAD-SFC NoSubs
 9   7 19 200 17    91.1  0.323  1.433  0.006  1150.  443.    -33.0 0.2940  0.52  0.22  2.60   18.0  15.0 310.0  2.0    0  0.00   43.   997.    2 NAD-SFC NoSubs
 9   7 19 200 18    45.6  0.352  1.144  0.006  1168.  500.    -84.9 0.2930  0.52  0.28  3.10  351.0  15.0 309.8  2.0    0  0.00   45.   997.    2 NAD-SFC NoSubs
 9   7 19 200 19     1.3  0.410  0.353  0.006  1166.  630.  -4577.2 0.2720  0.52  0.48  4.10  318.0  15.0 308.8  2.0    0  0.00   45.   998.    2 NAD-SFC NoSubs
 9   7 19 200 20   -47.2  0.468 -9.000 -9.000  -999.  767.    192.9 0.2160  0.52  1.00  5.10  287.0  15.0 304.9  2.0    0  0.00   52.   998.    2 NAD-SFC NoSubs
 9   7 19 200 21   -42.9  0.420 -9.000 -9.000  -999.  656.    153.9 0.2160  0.52  1.00  4.60  290.0  15.0 301.6  2.0    0  0.00   59.   999.    2 NAD-SFC NoSubs
 9   7 19 200 22   -33.4  0.325 -9.000 -9.000  -999.  451.     91.9 0.2160  0.52  1.00  3.60  286.0  15.0 300.1  2.0    0  0.00   62.   999.    2 NAD-SFC NoSubs
 9   7 19 200 23   -35.7  0.347 -9.000 -9.000  -999.  490.    104.1 0.2720  0.52  1.00  3.60  314.0  15.0 299.2  2.0    0  0.00   62.   999.    2 NAD-SFC NoSubs
 9   7 19 200 24   -31.3  0.303 -9.000 -9.000  -999.  402.     79.3 0.2930  0.52  1.00  3.10  344.0  15.0 298.6  2.0    0  0.00   62.   999.    2 NAD-SFC NoSubs
 9   7 20 201  1   -42.1  0.406 -9.000 -9.000  -999.  620.    141.8 0.2930  0.52  1.00  4.10  341.0  15.0 297.8  2.0    0  0.00   65.  1000.    2 NAD-SFC NoSubs
 9   7 20 201  2   -36.9  0.354 -9.000 -9.000  -999.  508.    107.7 0.2930  0.52  1.00  3.60  338.0  15.0 296.6  2.0    0  0.00   69.  1000.    2 NAD-SFC NoSubs
 9   7 20 201  3   -31.6  0.303 -9.000 -9.000  -999.  402.     78.7 0.2930  0.52  1.00  3.10  340.0  15.0 296.2  2.0    0  0.00   70.  1000.    2 NAD-SFC NoSubs
 9   7 20 201  4   -25.5  0.252 -9.000 -9.000  -999.  304.     55.6 0.2930  0.52  1.00  2.60  332.0  15.0 296.2  2.0    0  0.00   69.  1000.    2 NAD-SFC NoSubs
 9   7 20 201  5   -25.5  0.252 -9.000 -9.000  -999.  303.     55.6 0.2930  0.52  1.00  2.60  335.0  15.0 296.1  2.0    0  0.00   70.  1000.    2 NAD-SFC NoSubs
 9   7 20 201  6   -15.6  0.255 -9.000 -9.000  -999.  310.     95.4 0.2930  0.52  0.53  2.60  340.0  15.0 295.9  2.0    0  0.00   72.  1001.    2 NAD-SFC NoSubs
 9   7 20 201  7    32.8  0.253  0.487  0.010   126.  306.    -44.1 0.2930  0.52  0.30  2.10  353.0  15.0 297.2  2.0    0  0.00   70.  1001.    2 NAD-SFC NoSubs
 9   7 20 201  8    79.2  0.109  0.832  0.010   260.  103.     -1.5 0.2930  0.52  0.22  0.50  342.0  15.0 298.8  2.0    0  0.00   65.  1001.    2 NAD-SFC NoSubs
 9   7 20 201  9   120.5 -9.000 -9.000 -9.000   412.  -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 300.9  2.0    0  0.00   57.  1001.    2 NAD-SFC NoSubs
 9   7 20 201 10   153.5 -9.000 -9.000 -9.000   561.  -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 302.6  2.0    0  0.00   52.  1001.    2 NAD-SFC NoSubs
 9   7 20 201 11   177.0 -9.000 -9.000 -9.000   690.  -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 304.4  2.0    0  0.00   47.  1000.    2 NAD-SFC NoSubs
 9   7 20 201 12   189.3 -9.000 -9.000 -9.000   794.  -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 306.0  2.0    0  0.00   43.  1000.    2 NAD-SFC NoSubs
 9   7 20 201 13   190.6  0.121  1.679  0.010   886.  101.     -1.0 0.2720  0.52  0.19  0.50  328.0  15.0 307.2  2.0    0  0.00   40.   999.    2 NAD-SFC NoSubs
 9   7 20 201 14   181.2  0.239  1.700  0.009   967.  280.     -6.7 0.2930  0.52  0.19  1.50  351.0  15.0 308.1  2.0    0  0.00   38.   998.    2 NAD-SFC NoSubs
 9   7 20 201 15   160.4  0.341  1.672  0.008  1039.  478.    -22.0 0.2940  0.52  0.19  2.60    6.0  15.0 308.6  2.0    0  0.00   38.   998.    2 NAD-SFC NoSubs
 9   7 20 201 16   129.2  0.426  1.583  0.008  1093.  667.    -53.2 0.2940  0.52  0.20  3.60   12.0  15.0 308.5  2.0    0  0.00   40.   998.    2 NAD-SFC NoSubs
 9   7 20 201 17    89.6  0.323  1.415  0.007  1128.  447.    -33.5 0.2940  0.52  0.22  2.60    7.0  15.0 308.0  2.0    0  0.00   50.   998.    2 NAD-SFC NoSubs
 9   7 20 201 18    44.0  0.305  1.123  0.007  1145.  405.    -57.6 0.2940  0.52  0.28  2.60    4.0  15.0 307.8  2.0    0  0.00   53.   998.    2 NAD-SFC NoSubs
 9   7 20 201 19    -0.5  0.323 -9.000 -9.000  -999.  440.   5492.5 0.2930  0.52  0.48  3.10  333.0  15.0 306.8  2.0    0  0.00   53.   998.    2 NAD-SFC NoSubs
 9   7 20 201 20   -40.1  0.397 -9.000 -9.000  -999.  601.    139.3 0.2720  0.52  1.00  4.10  324.0  15.0 305.2  2.0    0  0.00   56.   999.    2 NAD-SFC NoSubs
 9   7 20 201 21   -40.3  0.397 -9.000 -9.000  -999.  601.    138.5 0.2720  0.52  1.00  4.10  315.0  15.0 303.6  2.0    0  0.00   60.   999.    2 NAD-SFC NoSubs
 9   7 20 201 22   -37.1  0.373 -9.000 -9.000  -999.  547.    124.6 0.2160  0.52  1.00  4.10  291.0  15.0 302.0  2.0    0  0.00   65.   999.    3 NAD-SFC NoSubs
 9   7 20 201 23   -32.5  0.326 -9.000 -9.000  -999.  447.     94.6 0.2160  0.52  1.00  3.60  285.0  15.0 300.8  2.0    0  0.00   67.  1000.    3 NAD-SFC NoSubs
 9   7 20 201 24   -34.8  0.347 -9.000 -9.000  -999.  491.    107.3 0.2720  0.52  1.00  3.60  304.0  15.0 300.2  2.0    0  0.00   67.  1000.    3 NAD-SFC NoSubs
 9   7 21 202  1   -35.6  0.355 -9.000 -9.000  -999.  507.    111.8 0.2930  0.52  1.00  3.60  338.0  15.0 299.4  2.0    0  0.00   71.  1000.    3 NAD-SFC NoSubs
 9   7 21 202  2  -999.0 -9.000 -9.000 -9.000  -999. -999. -99999.0 0.2235  0.52  1.00  0.00    0.0  15.0 298.2  2.0    0  0.00   76.  1000.    3 NAD-SFC NoSubs
 9   7 21 202  3   -30.8  0.304 -9.000 -9.000  -999.  402.     81.2 0.2940  0.52  1.00  3.10   13.0  15.0 297.0  2.0    0  0.00   78.  1001.    3 NAD-SFC NoSubs
 9   7 21 202  4  -999.0 -9.000 -9.000 -9.000  -999. -999. -99999.0 0.2235  0.52  1.00  0.00    0.0  15.0 296.2  2.0    0  0.00   78.  1001.    3 NAD-SFC NoSubs
 9   7 21 202  5   -25.3  0.252 -9.000 -9.000  -999.  303.     56.4 0.2930  0.52  1.00  2.60  355.0  15.0 295.6  2.0    0  0.00   78.  1001.    3 NAD-SFC NoSubs
 9   7 21 202  6    -6.2  0.142 -9.000 -9.000  -999.  135.     41.5 0.2930  0.52  0.53  1.50  354.0  15.0 295.4  2.0    0  0.00   77.  1001.    3 NAD-SFC NoSubs
 9   7 21 202  7    33.1  0.253  0.512  0.007   145.  306.    -43.8 0.2930  0.52  0.30  2.10  353.0  15.0 296.2  2.0    0  0.00   65.  1002.    3 NAD-SFC NoSubs
 9   7 21 202  8    79.2  0.166  0.810  0.009   240.  166.     -5.2 0.2930  0.52  0.22  1.00  343.0  15.0 297.9  2.0    0  0.00   60.  1002.    3 NAD-SFC NoSubs
 9   7 21 202  9   120.2 -9.000 -9.000 -9.000   342.  -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 300.1  2.0    0  0.00   53.  1002.    3 NAD-SFC NoSubs
 9   7 21 202 10   152.8 -9.000 -9.000 -9.000   532.  -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 301.8  2.0    0  0.00   49.  1002.    2 NAD-SFC NoSubs
 9   7 21 202 11   176.2  0.114  1.563  0.007   775.   92.     -1.0 0.2160  0.52  0.19  0.50  281.0  15.0 303.4  2.0    0  0.00   46.  1001.    2 NAD-SFC NoSubs
 9   7 21 202 12   188.3 -9.000 -9.000 -9.000   981.  -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 304.8  2.0    0  0.00   44.  1001.    2 NAD-SFC NoSubs
 9   7 21 202 13   189.7  0.121  1.792  0.008  1083.  101.     -1.0 0.2720  0.52  0.19  0.50  318.0  15.0 306.0  2.0    0  0.00   41.  1000.    2 NAD-SFC NoSubs
 9   7 21 202 14   180.2  0.185  1.808  0.008  1172.  191.     -3.1 0.2940  0.52  0.19  1.00   15.0  15.0 306.8  2.0    0  0.00   40.   999.    2 NAD-SFC NoSubs
 9   7 21 202 15   159.3  0.235  1.771  0.008  1245.  273.     -7.2 0.2940  0.52  0.19  1.50   15.0  15.0 307.2  2.0    0  0.00   38.   999.    2 NAD-SFC NoSubs
 9   7 21 202 16   128.4 -9.000 -9.000 -9.000  1300.  -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 307.5  2.0    0  0.00   37.   999.    2 NAD-SFC NoSubs
 9   7 21 202 17    88.7  0.323  1.492  0.008  1336.  440.    -33.8 0.2940  0.52  0.22  2.60    6.0  15.0 307.0  2.0    0  0.00   44.   999.    2 NAD-SFC NoSubs
 9   7 21 202 18    43.0  0.305  1.177  0.008  1352.  404.    -58.7 0.2940  0.52  0.28  2.60    1.0  15.0 306.5  2.0    0  0.00   49.   999.    2 NAD-SFC NoSubs
 9   7 21 202 19    -3.0  0.318 -9.000 -9.000  -999.  431.    961.4 0.2930  0.52  0.48  3.10  338.0  15.0 305.6  2.0    0  0.00   49.   999.    2 NAD-SFC NoSubs
 9   7 21 202 20   -40.2  0.397 -9.000 -9.000  -999.  601.    138.8 0.2720  0.52  1.00  4.10  329.0  15.0 304.2  2.0    0  0.00   51.   999.    2 NAD-SFC NoSubs
 9   7 21 202 21   -40.5  0.397 -9.000 -9.000  -999.  601.    138.1 0.2720  0.52  1.00  4.10  326.0  15.0 302.6  2.0    0  0.00   55.   999.    2 NAD-SFC NoSubs
 9   7 21 202 22   -41.5  0.406 -9.000 -9.000  -999.  621.    143.6 0.2930  0.52  1.00  4.10  335.0  15.0 301.4  2.0    0  0.00   59.   999.    2 NAD-SFC NoSubs
 9   7 21 202 23   -40.8  0.397 -9.000 -9.000  -999.  601.    136.8 0.2720  0.52  1.00  4.10  328.0  15.0 300.0  2.0    0  0.00   64.  1000.    2 NAD-SFC NoSubs
 9   7 21 202 24   -42.0  0.406 -9.000 -9.000  -999.  620.    142.0 0.2930  0.52  1.00  4.10  337.0  15.0 298.2  2.0    0  0.00   72.  1000.    2 NAD-SFC NoSubs
 9   7 22 203  1   -36.8  0.354 -9.000 -9.000  -999.  508.    107.8 0.2930  0.52  1.00  3.60  349.0  15.0 296.8  2.0    0  0.00   76.  1000.    2 NAD-SFC NoSubs
 9   7 22 203  2   -31.6  0.303 -9.000 -9.000  -999.  402.     78.5 0.2930  0.52  1.00  3.10  359.0  15.0 295.8  2.0    0  0.00   78.  1000.    2 NAD-SFC NoSubs
 9   7 22 203  3   -31.8  0.303 -9.000 -9.000  -999.  401.     78.4 0.2940  0.52  1.00  3.10    6.0  15.0 294.8  2.0    0  0.00   79.  1001.    2 NAD-SFC NoSubs
 9   7 22 203  4  -999.0 -9.000 -9.000 -9.000  -999. -999. -99999.0 0.2235  0.52  1.00  0.00    0.0  15.0 294.0  2.0    0  0.00   81.  1001.    2 NAD-SFC NoSubs
 9   7 22 203  5   -25.7  0.252 -9.000 -9.000  -999.  303.     55.3 0.2930  0.52  1.00  2.60  360.0  15.0 293.4  2.0    0  0.00   82.  1001.    2 NAD-SFC NoSubs
 9   7 22 203  6    -6.7  0.141 -9.000 -9.000  -999.  134.     37.7 0.2930  0.52  0.53  1.50  339.0  15.0 293.2  2.0    0  0.00   81.  1001.    2 NAD-SFC NoSubs
 9   7 22 203  7    30.8  0.197  0.488  0.011   135.  209.    -22.0 0.2930  0.52  0.30  1.50  346.0  15.0 294.2  2.0    0  0.00   70.  1002.    2 NAD-SFC NoSubs
 9   7 22 203  8    77.3  0.109  0.788  0.011   226.   89.     -1.5 0.2930  0.52  0.22  0.50  340.0  15.0 295.9  2.0    0  0.00   65.  1001.    2 NAD-SFC NoSubs
 9   7 22 203  9   118.7 -9.000 -9.000 -9.000   321.  -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 298.2  2.0    0  0.00   56.  1001.    2 NAD-SFC NoSubs
 9   7 22 203 10   151.8 -9.000 -9.000 -9.000   451.  -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 300.1  2.0    0  0.00   52.  1000.    2 NAD-SFC NoSubs
 9   7 22 203 11   175.2 -9.000 -9.000 -9.000   654.  -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 301.9  2.0    0  0.00   47.  1000.    2 NAD-SFC NoSubs
 9   7 22 203 12   187.5  0.115  1.651  0.010   857.   94.     -1.0 0.2160  0.52  0.19  0.50  299.0  15.0 303.4  2.0    0  0.00   44.   999.    2 NAD-SFC NoSubs
 9   7 22 203 13   188.8  0.123  1.741  0.011   997.  104.     -1.0 0.2930  0.52  0.19  0.50  330.0  15.0 304.8  2.0    0  0.00   41.   998.    2 NAD-SFC NoSubs
 9   7 22 203 14   179.3  0.238  1.752  0.011  1067.  279.     -6.7 0.2930  0.52  0.19  1.50  355.0  15.0 305.6  2.0    0  0.00   40.   997.    2 NAD-SFC NoSubs
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 9  7 22 203 15  158.4 -9.000 -9.000 -9.000 1125. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 306.1  2.0    0  0.00   39.   997.    2 NAD-SFC NoSubs
 9  7 22 203 16  127.4  0.380  1.612  0.011 1170.  562.    -38.2 0.2940  0.52  0.20  3.10    9.0  15.0 306.2  2.0    0  0.00   40.   996.    2 NAD-SFC NoSubs
 9  7 22 203 17   87.6  0.322  1.434  0.011 1198.  441.    -34.0 0.2940  0.52  0.22  2.60   12.0  15.0 305.8  2.0    0  0.00   48.   996.    2 NAD-SFC NoSubs
 9  7 22 203 18   42.0  0.304  1.126  0.011 1211.  403.    -59.7 0.2940  0.52  0.28  2.60   13.0  15.0 305.4  2.0    0  0.00   52.   997.    2 NAD-SFC NoSubs
 9  7 22 203 19   -3.4  0.210 -9.000 -9.000 -999.  235.    243.6 0.2930  0.52  0.49  2.10  347.0  15.0 304.5  2.0    0  0.00   53.   997.    2 NAD-SFC NoSubs
 9  7 22 203 20  -25.2  0.252 -9.000 -9.000 -999.  303.     56.4 0.2930  0.52  1.00  2.60  330.0  15.0 303.2  2.0    0  0.00   56.   997.    2 NAD-SFC NoSubs
 9  7 22 203 21  -39.5  0.397 -9.000 -9.000 -999.  601.    141.6 0.2720  0.52  1.00  4.10  319.0  15.0 302.1  2.0    0  0.00   60.   998.    3 NAD-SFC NoSubs
 9  7 22 203 22  -39.8  0.397 -9.000 -9.000 -999.  601.    140.5 0.2720  0.52  1.00  4.10  305.0  15.0 299.9  2.0    0  0.00   67.   998.    3 NAD-SFC NoSubs
 9  7 22 203 23  -40.0  0.397 -9.000 -9.000 -999.  601.    139.7 0.2720  0.52  1.00  4.10  302.0  15.0 298.2  2.0    0  0.00   72.   999.    3 NAD-SFC NoSubs
 9  7 22 203 24  -35.1  0.347 -9.000 -9.000 -999.  492.    106.2 0.2720  0.52  1.00  3.60  315.0  15.0 297.2  2.0    0  0.00   74.   999.    3 NAD-SFC NoSubs
 9  7 23 204  1  -31.5  0.303 -9.000 -9.000 -999.  402.     78.7 0.2930  0.52  1.00  3.10  349.0  15.0 296.4  2.0    0  0.00   76.   999.    2 NAD-SFC NoSubs
 9  7 23 204  2  -31.7  0.303 -9.000 -9.000 -999.  401.     78.6 0.2940  0.52  1.00  3.10    9.0  15.0 295.2  2.0    0  0.00   80.  1000.    2 NAD-SFC NoSubs
 9  7 23 204  3  -31.8  0.303 -9.000 -9.000 -999.  401.     78.3 0.2940  0.52  1.00  3.10    8.0  15.0 294.4  2.0    0  0.00   83.  1000.    2 NAD-SFC NoSubs
 9  7 23 204  4  -25.7  0.252 -9.000 -9.000 -999.  304.     55.5 0.2940  0.52  1.00  2.60   17.0  15.0 293.8  2.0    0  0.00   84.  1000.    2 NAD-SFC NoSubs
 9  7 23 204  5  -16.5  0.200 -9.000 -9.000 -999.  215.     43.3 0.2940  0.52  1.00  2.10   24.0  15.0 293.1  2.0    0  0.00   85.  1000.    2 NAD-SFC NoSubs
 9  7 23 204  6  -13.6  0.203 -9.000 -9.000 -999.  220.     54.9 0.2940  0.52  0.54  2.10    8.0  15.0 292.9  2.0    0  0.00   84.  1000.    2 NAD-SFC NoSubs
 9  7 23 204  7   30.2  0.196  0.496  0.010  144.  209.    -22.4 0.2940  0.52  0.30  1.50    5.0  15.0 293.8  2.0    0  0.00   74.  1001.    2 NAD-SFC NoSubs
 9  7 23 204  8   76.8 -9.000 -9.000 -9.000  248. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0 295.8  2.0    0  0.00   67.  1001.    2 NAD-SFC NoSubs
 9  7 23 204  9  118.1 -9.000 -9.000 -9.000  378. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 297.8  2.0    0  0.00   59.  1000.    2 NAD-SFC NoSubs
 9  7 23 204 10  151.4 -9.000 -9.000 -9.000  550. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 299.8  2.0    0  0.00   55.  1000.    2 NAD-SFC NoSubs
 9  7 23 204 11  174.8 -9.000 -9.000 -9.000  706. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 301.6  2.0    0  0.00   50.  1000.    2 NAD-SFC NoSubs
 9  7 23 204 12  187.1 -9.000 -9.000 -9.000  846. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 303.2  2.0    0  0.00   47.   999.    2 NAD-SFC NoSubs
 9  7 23 204 13  188.6  0.121  1.724  0.013  968.  101.    -1.0 0.2720  0.52  0.19  0.50  325.0  15.0 304.8  2.0    0  0.00   43.   998.    2 NAD-SFC NoSubs
 9  7 23 204 14  179.2  0.122  1.730  0.013 1030.  103.    -1.0 0.2930  0.52  0.19  0.50  345.0  15.0 305.8  2.0    0  0.00   40.   997.    2 NAD-SFC NoSubs
 9  7 23 204 15  158.5 -9.000 -9.000 -9.000 1081. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 306.6  2.0    0  0.00   38.   997.    2 NAD-SFC NoSubs
 9  7 23 204 16  127.4  0.287  1.589  0.012 1119.  368.    -16.4 0.2940  0.52  0.20  2.10   15.0  15.0 306.8  2.0    0  0.00   38.   996.    2 NAD-SFC NoSubs
 9  7 23 204 17   87.8  0.322  1.414  0.012 1145.  439.    -33.9 0.2940  0.52  0.22  2.60   21.0  15.0 306.5  2.0    0  0.00   44.   996.    2 NAD-SFC NoSubs
 9  7 23 204 18   41.9  0.304  1.109  0.012 1155.  403.    -59.7 0.2940  0.52  0.28  2.60   25.0  15.0 306.0  2.0    0  0.00   51.   997.    2 NAD-SFC NoSubs
 9  7 23 204 19   -5.1  0.315 -9.000 -9.000 -999.  425.    551.0 0.2930  0.52  0.49  3.10  349.0  15.0 305.2  2.0    0  0.00   52.   997.    2 NAD-SFC NoSubs
 9  7 23 204 20  -47.6  0.468 -9.000 -9.000 -999.  768.    191.3 0.2160  0.52  1.00  5.10  289.0  15.0 302.5  2.0    0  0.00   57.   998.    2 NAD-SFC NoSubs
 9  7 23 204 21  -45.7  0.443 -9.000 -9.000 -999.  709.    169.3 0.1750  0.52  1.00  5.10  269.0  15.0 298.4  2.0    0  0.00   64.   998.    2 NAD-SFC NoSubs
 9  7 23 204 22  -38.6  0.373 -9.000 -9.000 -999.  549.    119.2 0.2160  0.52  1.00  4.10  279.0  15.0 297.1  2.0    0  0.00   66.   999.    2 NAD-SFC NoSubs
 9  7 23 204 23  -30.8  0.297 -9.000 -9.000 -999.  391.     75.4 0.2720  0.52  1.00  3.10  313.0  15.0 296.4  2.0    0  0.00   67.   999.    2 NAD-SFC NoSubs
 9  7 23 204 24  -31.6  0.303 -9.000 -9.000 -999.  400.     78.5 0.2930  0.52  1.00  3.10  330.0  15.0 295.8  2.0    0  0.00   68.   999.    2 NAD-SFC NoSubs
 9  7 24 205  1  -36.1  0.355 -9.000 -9.000 -999.  507.    110.0 0.2930  0.52  1.00  3.60  345.0  15.0 294.9  2.0    0  0.00   71.   999.    3 NAD-SFC NoSubs
 9  7 24 205  2  -36.2  0.355 -9.000 -9.000 -999.  507.    109.7 0.2930  0.52  1.00  3.60  349.0  15.0 294.2  2.0    0  0.00   73.  1000.    3 NAD-SFC NoSubs
 9  7 24 205  3  -36.3  0.355 -9.000 -9.000 -999.  507.    109.5 0.2930  0.52  1.00  3.60  359.0  15.0 293.6  2.0    0  0.00   75.  1000.    3 NAD-SFC NoSubs
 9  7 24 205  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00    0.0  15.0 293.2  2.0    0  0.00   76.  1000.    3 NAD-SFC NoSubs
 9  7 24 205  5  -31.9  0.303 -9.000 -9.000 -999.  400.     77.8 0.2930  0.52  1.00  3.10  350.0  15.0 292.9  2.0    0  0.00   75.  1000.    2 NAD-SFC NoSubs
 9  7 24 205  6  -18.2  0.254 -9.000 -9.000 -999.  309.     80.9 0.2930  0.52  0.54  2.60  345.0  15.0 293.0  2.0    0  0.00   73.  1001.    2 NAD-SFC NoSubs
 9  7 24 205  7   30.1  0.292  0.453  0.008  110.  379.    -74.0 0.2720  0.52  0.30  2.60  316.0  15.0 294.8  2.0    0  0.00   60.  1001.    2 NAD-SFC NoSubs
 9  7 24 205  8   76.7  0.166  0.757  0.010  201.  171.     -5.3 0.2930  0.52  0.22  1.00  335.0  15.0 296.5  2.0    0  0.00   54.  1001.    2 NAD-SFC NoSubs
 9  7 24 205  9  118.2 -9.000 -9.000 -9.000  334. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 298.8  2.0    0  0.00   49.  1001.    2 NAD-SFC NoSubs
 9  7 24 205 10  151.4 -9.000 -9.000 -9.000  490. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 300.5  2.0    0  0.00   47.  1001.    2 NAD-SFC NoSubs
 9  7 24 205 11  175.0 -9.000 -9.000 -9.000  652. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 302.4  2.0    0  0.00   43.  1000.    2 NAD-SFC NoSubs
 9  7 24 205 12  187.3  0.121  1.630  0.007  825.  101.    -1.0 0.2720  0.52  0.19  0.50  318.0  15.0 303.9  2.0    0  0.00   40.  1000.    2 NAD-SFC NoSubs
 9  7 24 205 13  188.7  0.121  1.726  0.008  972.  101.    -1.0 0.2720  0.52  0.19  0.50  321.0  15.0 305.2  2.0    0  0.00   37.   999.    2 NAD-SFC NoSubs
 9  7 24 205 14  179.2  0.122  1.755  0.008 1077.  103.    -1.0 0.2930  0.52  0.19  0.50  336.0  15.0 306.2  2.0    0  0.00   34.   999.    2 NAD-SFC NoSubs
 9  7 24 205 15  158.3  0.234  1.728  0.008 1162.  272.    -7.2 0.2930  0.52  0.19  1.50  336.0  15.0 306.8  2.0    0  0.00   32.   998.    2 NAD-SFC NoSubs
 9  7 24 205 16  127.5  0.286  1.637  0.008 1226.  368.    -16.4 0.2930  0.52  0.20  2.10  338.0  15.0 307.4  2.0    0  0.00   27.   998.    2 NAD-SFC NoSubs
 9  7 24 205 17   87.5  0.276  1.460  0.009 1266.  348.    -21.4 0.2930  0.52  0.22  2.10  330.0  15.0 306.8  2.0    0  0.00   36.   998.    2 NAD-SFC NoSubs
 9  7 24 205 18   41.5  0.344  1.143  0.009 1283.  484.    -87.3 0.2720  0.52  0.28  3.10  306.0  15.0 305.9  2.0    0  0.00   42.   999.    2 NAD-SFC NoSubs
 9  7 24 205 19  -13.1  0.480 -9.000 -9.000 -999.  799.    753.1 0.2160  0.52  0.49  5.10  283.0  15.0 302.8  2.0    0  0.00   50.   999.    2 NAD-SFC NoSubs
 9  7 24 205 20  -48.3  0.468 -9.000 -9.000 -999.  768.    188.8 0.2160  0.52  1.00  5.10  278.0  15.0 298.8  2.0    0  0.00   61.  1000.    2 NAD-SFC NoSubs
 9  7 24 205 21  -48.6  0.468 -9.000 -9.000 -999.  767.    187.5 0.2160  0.52  1.00  5.10  275.0  15.0 296.8  2.0    0  0.00   65.  1000.    2 NAD-SFC NoSubs
 9  7 24 205 22  -43.9  0.420 -9.000 -9.000 -999.  655.    150.6 0.2160  0.52  1.00  4.60  274.0  15.0 295.4  2.0    0  0.00   67.  1001.    2 NAD-SFC NoSubs
 9  7 24 205 23  -34.1  0.325 -9.000 -9.000 -999.  451.     90.0 0.2160  0.52  1.00  3.60  280.0  15.0 294.4  2.0    0  0.00   70.  1001.    2 NAD-SFC NoSubs
 9  7 24 205 24  -29.2  0.278 -9.000 -9.000 -999.  353.     65.6 0.2160  0.52  1.00  3.10  299.0  15.0 293.8  2.0    0  0.00   72.  1001.    2 NAD-SFC NoSubs
 9  7 25 206  1  -24.8  0.246 -9.000 -9.000 -999.  293.     53.7 0.2720  0.52  1.00  2.60  309.0  15.0 293.2  2.0    0  0.00   73.  1002.    2 NAD-SFC NoSubs
 9  7 25 206  2  -24.8  0.246 -9.000 -9.000 -999.  293.     53.7 0.2720  0.52  1.00  2.60  308.0  15.0 293.2  2.0    0  0.00   72.  1002.    2 NAD-SFC NoSubs
 9  7 25 206  3  -15.9  0.195 -9.000 -9.000 -999.  208.     41.9 0.2720  0.52  1.00  2.10  309.0  15.0 293.1  2.0    0  0.00   72.  1002.    2 NAD-SFC NoSubs
 9  7 25 206  4  -15.9  0.195 -9.000 -9.000 -999.  207.     41.9 0.2720  0.52  1.00  2.10  313.0  15.0 292.8  2.0    0  0.00   74.  1002.    2 NAD-SFC NoSubs
 9  7 25 206  5  -15.9  0.195 -9.000 -9.000 -999.  207.     41.8 0.2720  0.52  1.00  2.10  325.0  15.0 292.4  2.0    0  0.00   77.  1002.    2 NAD-SFC NoSubs
 9  7 25 206  6  -14.0  0.203 -9.000 -9.000 -999.  219.     53.1 0.2930  0.52  0.55  2.10  334.0  15.0 292.2  2.0    0  0.00   80.  1003.    2 NAD-SFC NoSubs
 9  7 25 206  7   29.1  0.195  0.529  0.011  182.  207.    -23.0 0.2930  0.52  0.30  1.50  349.0  15.0 293.1  2.0    0  0.00   79.  1003.    2 NAD-SFC NoSubs
 9  7 25 206  8   75.8 -9.000 -9.000 -9.000  308. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0 295.0  2.0    0  0.00   72.  1003.    2 NAD-SFC NoSubs
 9  7 25 206  9  117.2 -9.000 -9.000 -9.000  432. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 296.9  2.0    0  0.00   65.  1002.    2 NAD-SFC NoSubs
 9  7 25 206 10  150.4 -9.000 -9.000 -9.000  549. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 298.8  2.0    0  0.00   60.  1002.    2 NAD-SFC NoSubs
 9  7 25 206 11  174.1 -9.000 -9.000 -9.000  662. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 301.1  2.0    0  0.00   53.  1001.    2 NAD-SFC NoSubs
 9  7 25 206 12  186.6 -9.000 -9.000 -9.000  772. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 303.1  2.0    0  0.00   46.  1000.    2 NAD-SFC NoSubs
 9  7 25 206 13  188.1 -9.000 -9.000 -9.000  869. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 304.6  2.0    0  0.00   41.  1000.    2 NAD-SFC NoSubs
 9  7 25 206 14  178.7  0.122  1.684  0.012  953.  103.    -1.0 0.2930  0.52  0.19  0.50  336.0  15.0 305.8  2.0    0  0.00   38.   999.    2 NAD-SFC NoSubs
 9  7 25 206 15  157.9  0.234  1.650  0.012 1015.  272.    -7.2 0.2930  0.52  0.19  1.50  353.0  15.0 306.4  2.0    0  0.00   37.   999.    2 NAD-SFC NoSubs
 9  7 25 206 16  126.8  0.286  1.556  0.012 1059.  368.    -16.5 0.2940  0.52  0.20  2.10    3.0  15.0 306.8  2.0    0  0.00   37.   999.    2 NAD-SFC NoSubs
 9  7 25 206 17   86.9  0.322  1.384  0.012 1087.  439.    -34.3 0.2940  0.52  0.22  2.60   12.0  15.0 306.2  2.0    0  0.00   44.   999.    2 NAD-SFC NoSubs
 9  7 25 206 18   41.0  0.350  1.081  0.011 1100.  496.    -93.0 0.2940  0.52  0.28  3.10    9.0  15.0 305.8  2.0    0  0.00   51.   999.    2 NAD-SFC NoSubs
 9  7 25 206 19   -8.6  0.366 -9.000 -9.000 -999.  530.    506.5 0.2930  0.52  0.50  3.60  333.0  15.0 304.8  2.0    0  0.00   52.  1000.    2 NAD-SFC NoSubs
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 9  7 25 206 20  -47.9  0.468 -9.000 -9.000 -999.  767.    190.3  0.2160  0.52  1.00  5.10  286.0  15.0  300.9  2.0   0  0.00  61.  1000.   2 NAD-SFC NoSubs
 9  7 25 206 21  -48.5  0.468 -9.000 -9.000 -999.  767.    188.2  0.2160  0.52  1.00  5.10  282.0  15.0  297.8  2.0   0  0.00  63.  1001.   2 NAD-SFC NoSubs
 9  7 25 206 22  -38.8  0.373 -9.000 -9.000 -999.  552.    118.8  0.2160  0.52  1.00  4.10  278.0  15.0  296.2  2.0   0  0.00  66.  1001.   2 NAD-SFC NoSubs
 9  7 25 206 23  -29.1  0.278 -9.000 -9.000 -999.  357.     66.0  0.2160  0.52  1.00  3.10  291.0  15.0  295.2  2.0   0  0.00  67.  1001.   2 NAD-SFC NoSubs
 9  7 25 206 24  -31.1  0.297 -9.000 -9.000 -999.  387.     74.9  0.2720  0.52  1.00  3.10  315.0  15.0  294.6  2.0   0  0.00  67.  1002.   2 NAD-SFC NoSubs
 9  7 26 207  1  -31.8  0.303 -9.000 -9.000 -999.  400.     78.1  0.2930  0.52  1.00  3.10  340.0  15.0  294.1  2.0   0  0.00  67.  1002.   2 NAD-SFC NoSubs
 9  7 26 207  2  -32.0  0.303 -9.000 -9.000 -999.  401.     78.1  0.2940  0.52  1.00  3.10   15.0  15.0  293.5  2.0   0  0.00  68.  1003.   2 NAD-SFC NoSubs
 9  7 26 207  3  -25.8  0.252 -9.000 -9.000 -999.  304.     55.4  0.2940  0.52  1.00  2.60   23.0  15.0  293.1  2.0   0  0.00  69.  1003.   2 NAD-SFC NoSubs
 9  7 26 207  4   -8.3  0.140 -9.000 -9.000 -999.  132.     29.6  0.2940  0.52  1.00  1.50   16.0  15.0  292.9  2.0   0  0.00  68.  1003.   2 NAD-SFC NoSubs
 9  7 26 207  5   -4.0  0.102 -9.000 -9.000 -999.   79.     23.7  0.2940  0.52  1.00  1.00    8.0  15.0  292.6  2.0   0  0.00  69.  1003.   2 NAD-SFC NoSubs
 9  7 26 207  6   -1.2  0.073 -9.000 -9.000 -999.   48.     28.8  0.2940  0.52  0.55  0.50   16.0  15.0  292.4  2.0   0  0.00  70.  1003.   2 NAD-SFC NoSubs
 9  7 26 207  7   29.0  0.146  0.428  0.011   97.  133.     -9.5  0.2720  0.52  0.30  1.00  327.0  15.0  294.2  2.0   0  0.00  60.  1004.   2 NAD-SFC NoSubs
 9  7 26 207  8   75.8 -9.000 -9.000 -9.000  208. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  296.1  2.0   0  0.00  57.  1003.   2 NAD-SFC NoSubs
 9  7 26 207  9  117.3 -9.000 -9.000 -9.000  357. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  298.2  2.0   0  0.00  51.  1003.   2 NAD-SFC NoSubs
 9  7 26 207 10  150.7 -9.000 -9.000 -9.000  518. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  300.2  2.0   0  0.00  46.  1003.   2 NAD-SFC NoSubs
 9  7 26 207 11  174.3 -9.000 -9.000 -9.000  668. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  302.0  2.0   0  0.00  43.  1002.   2 NAD-SFC NoSubs
 9  7 26 207 12  186.7 -9.000 -9.000 -9.000  827. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  303.8  2.0   0  0.00  40.  1001.   2 NAD-SFC NoSubs
 9  7 26 207 13  188.2 -9.000 -9.000 -9.000  961. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  305.1  2.0   0  0.00  38.  1001.   2 NAD-SFC NoSubs
 9  7 26 207 14  178.8  0.122  1.729  0.012 1033.  103.     -1.0  0.2930  0.52  0.19  0.50  348.0  15.0  306.2  2.0   0  0.00  36.  1000.   2 NAD-SFC NoSubs
 9  7 26 207 15  157.8 -9.000 -9.000 -9.000 1089. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  306.8  2.0   0  0.00  35.   999.   2 NAD-SFC NoSubs
 9  7 26 207 16  126.8  0.286  1.590  0.011 1131.  368.    -16.5  0.2940  0.52  0.20  2.10    9.0  15.0  307.1  2.0   0  0.00  35.   999.   2 NAD-SFC NoSubs
 9  7 26 207 17   86.8  0.276  1.413  0.011 1159.  348.    -21.6  0.2940  0.52  0.22  2.10   24.0  15.0  306.8  2.0   0  0.00  43.   999.   2 NAD-SFC NoSubs
 9  7 26 207 18   40.9  0.258  1.104  0.011 1171.  314.    -37.3  0.2940  0.52  0.29  2.10   24.0  15.0  306.4  2.0   0  0.00  47.   999.   2 NAD-SFC NoSubs
 9  7 26 207 19   -6.0  0.261 -9.000 -9.000 -999.  319.    261.1  0.2930  0.52  0.50  2.60  333.0  15.0  305.6  2.0   0  0.00  48.  1000.   2 NAD-SFC NoSubs
 9  7 26 207 20  -47.8  0.468 -9.000 -9.000 -999.  768.    190.9  0.2160  0.52  1.00  5.10  288.0  15.0  301.9  2.0   0  0.00  56.  1000.   2 NAD-SFC NoSubs
 9  7 26 207 21  -43.5  0.420 -9.000 -9.000 -999.  655.    152.1  0.2160  0.52  1.00  4.60  279.0  15.0  298.2  2.0   0  0.00  62.  1001.   2 NAD-SFC NoSubs
 9  7 26 207 22  -38.7  0.373 -9.000 -9.000 -999.  548.    119.1  0.2160  0.52  1.00  4.10  290.0  15.0  296.9  2.0   0  0.00  63.  1001.   2 NAD-SFC NoSubs
 9  7 26 207 23  -33.9  0.325 -9.000 -9.000 -999.  447.     90.5  0.2160  0.52  1.00  3.60  289.0  15.0  295.9  2.0   0  0.00  64.  1001.   2 NAD-SFC NoSubs
 9  7 26 207 24  -31.0  0.297 -9.000 -9.000 -999.  388.     75.0  0.2720  0.52  1.00  3.10  317.0  15.0  295.1  2.0   0  0.00  64.  1001.   2 NAD-SFC NoSubs
 9  7 27 208  1  -31.8  0.303 -9.000 -9.000 -999.  400.     78.2  0.2930  0.52  1.00  3.10  340.0  15.0  294.4  2.0   0  0.00  65.  1001.   2 NAD-SFC NoSubs
 9  7 27 208  2  -25.7  0.252 -9.000 -9.000 -999.  304.     55.4  0.2930  0.52  1.00  2.60  360.0  15.0  293.8  2.0   0  0.00  67.  1002.   2 NAD-SFC NoSubs
 9  7 27 208  3  -16.5  0.200 -9.000 -9.000 -999.  215.     43.2  0.2930  0.52  1.00  2.10  356.0  15.0  293.2  2.0   0  0.00  68.  1002.   2 NAD-SFC NoSubs
 9  7 27 208  4   -3.9  0.101 -9.000 -9.000 -999.   81.     23.3  0.2720  0.52  1.00  1.00  327.0  15.0  293.0  2.0   0  0.00  69.  1002.   2 NAD-SFC NoSubs
 9  7 27 208  5   -3.9  0.101 -9.000 -9.000 -999.   77.     23.3  0.2720  0.52  1.00  1.00  310.0  15.0  292.8  2.0   0  0.00  69.  1002.   2 NAD-SFC NoSubs
 9  7 27 208  6   -6.8  0.138 -9.000 -9.000 -999.  122.     34.0  0.2720  0.52  0.56  1.50  307.0  15.0  292.6  2.0   0  0.00  70.  1002.   2 NAD-SFC NoSubs
 9  7 27 208  7   28.5  0.246  0.437  0.011  104.  293.    -46.8  0.2720  0.52  0.30  2.10  315.0  15.0  294.2  2.0   0  0.00  67.  1002.   2 NAD-SFC NoSubs
 9  7 27 208  8   75.4 -9.000 -9.000 -9.000  192. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  296.1  2.0   0  0.00  63.  1002.   2 NAD-SFC NoSubs
 9  7 27 208  9  117.1 -9.000 -9.000 -9.000  323. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  298.4  2.0   0  0.00  54.  1001.   2 NAD-SFC NoSubs
 9  7 27 208 10  150.4 -9.000 -9.000 -9.000  457. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  300.2  2.0   0  0.00  49.  1001.   2 NAD-SFC NoSubs
 9  7 27 208 11  174.1 -9.000 -9.000 -9.000  590. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  302.2  2.0   0  0.00  44.  1000.   2 NAD-SFC NoSubs
 9  7 27 208 12  186.6 -9.000 -9.000 -9.000  725. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  303.9  2.0   0  0.00  39.  1000.   2 NAD-SFC NoSubs
 9  7 27 208 13  188.1 -9.000 -9.000 -9.000  863. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  305.4  2.0   0  0.00  35.   999.   2 NAD-SFC NoSubs
 9  7 27 208 14  178.7 -9.000 -9.000 -9.000  976. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  306.6  2.0   0  0.00  33.   998.   2 NAD-SFC NoSubs
 9  7 27 208 15  157.9  0.120  1.663  0.011 1039.  100.     -1.0  0.2940  0.52  0.19  0.50   20.0  15.0  307.4  2.0   0  0.00  31.   998.   2 NAD-SFC NoSubs
 9  7 27 208 16  126.9  0.177  1.570  0.011 1087.  179.     -3.9  0.2940  0.52  0.20  1.00   21.0  15.0  307.9  2.0   0  0.00  31.   998.   2 NAD-SFC NoSubs
 9  7 27 208 17   87.0  0.219  1.397  0.011 1118.  246.    -10.8  0.2940  0.52  0.22  1.50   19.0  15.0  307.8  2.0   0  0.00  33.   998.   2 NAD-SFC NoSubs
 9  7 27 208 18   41.1  0.258  1.093  0.011 1132.  314.    -37.0  0.2930  0.52  0.29  2.10  343.0  15.0  307.5  2.0   0  0.00  39.   998.   2 NAD-SFC NoSubs
 9  7 27 208 19  -13.6  0.480 -9.000 -9.000 -999.  799.    725.7  0.2160  0.52  0.50  5.10  289.0  15.0  305.0  2.0   0  0.00  48.   998.   2 NAD-SFC NoSubs
 9  7 27 208 20  -48.1  0.468 -9.000 -9.000 -999.  768.    189.6  0.2160  0.52  1.00  5.10  284.0  15.0  299.9  2.0   0  0.00  62.   999.   2 NAD-SFC NoSubs
 9  7 27 208 21  -41.2  0.398 -9.000 -9.000 -999.  606.    136.4  0.1750  0.52  1.00  4.60  266.0  15.0  297.9  2.0   0  0.00  65.   999.   2 NAD-SFC NoSubs
 9  7 27 208 22  -36.7  0.353 -9.000 -9.000 -999.  505.    106.8  0.1750  0.52  1.00  4.10  268.0  15.0  296.6  2.0   0  0.00  68.   999.   2 NAD-SFC NoSubs
 9  7 27 208 23  -29.0  0.278 -9.000 -9.000 -999.  355.     66.1  0.2160  0.52  1.00  3.10  284.0  15.0  295.8  2.0   0  0.00  70.   999.   2 NAD-SFC NoSubs
 9  7 27 208 24  -14.2  0.183 -9.000 -9.000 -999.  192.     38.4  0.2160  0.52  1.00  2.10  287.0  15.0  295.2  2.0   0  0.00  71.   999.   2 NAD-SFC NoSubs
 9  7 28 209  1   -3.9  0.100 -9.000 -9.000 -999.   79.     23.3  0.2720  0.52  1.00  1.00  316.0  15.0  294.9  2.0   0  0.00  72.   999.   2 NAD-SFC NoSubs
 9  7 28 209  2   -3.9  0.100 -9.000 -9.000 -999.   76.     23.3  0.2720  0.52  1.00  1.00  310.0  15.0  294.5  2.0   0  0.00  74.  1000.   2 NAD-SFC NoSubs
 9  7 28 209  3   -7.2  0.129 -9.000 -9.000 -999.  111.     26.6  0.2160  0.52  1.00  1.50  280.0  15.0  294.2  2.0   0  0.00  76.  1000.   2 NAD-SFC NoSubs
 9  7 28 209  4  -22.2  0.231 -9.000 -9.000 -999.  266.     49.2  0.2160  0.52  1.00  2.60  277.0  15.0  293.8  2.0   0  0.00  78.  1000.   2 NAD-SFC NoSubs
 9  7 28 209  5  -29.2  0.278 -9.000 -9.000 -999.  352.     65.6  0.2160  0.52  1.00  3.10  290.0  15.0  293.4  2.0   0  0.00  81.  1000.   2 NAD-SFC NoSubs
 9  7 28 209  6  -19.3  0.248 -9.000 -9.000 -999.  297.     70.6  0.2720  0.52  0.56  2.60  301.0  15.0  293.2  2.0   0  0.00  83.  1001.   2 NAD-SFC NoSubs
 9  7 28 209  7   28.1  0.195  0.515  0.012  173.  207.    -23.5  0.2930  0.52  0.31  1.50  330.0  15.0  294.4  2.0   0  0.00  80.  1001.   2 NAD-SFC NoSubs
 9  7 28 209  8   75.0 -9.000 -9.000 -9.000  301. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  296.2  2.0   0  0.00  74.  1000.   2 NAD-SFC NoSubs
 9  7 28 209  9  116.5 -9.000 -9.000 -9.000  421. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  297.9  2.0   0  0.00  69.  1000.   2 NAD-SFC NoSubs
 9  7 28 209 10  149.9 -9.000 -9.000 -9.000  534. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  299.8  2.0   0  0.00  63.   999.   2 NAD-SFC NoSubs
 9  7 28 209 11  173.6 -9.000 -9.000 -9.000  641. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.6  2.0   0  0.00  57.   999.   2 NAD-SFC NoSubs
 9  7 28 209 12  186.0 -9.000 -9.000 -9.000  774. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  303.2  2.0   0  0.00  51.   998.   2 NAD-SFC NoSubs
 9  7 28 209 13  187.5 -9.000 -9.000 -9.000  896. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  304.8  2.0   0  0.00  46.   997.   2 NAD-SFC NoSubs
 9  7 28 209 14  178.1  0.120  1.703  0.014  987.  100.     -1.0  0.2720  0.52  0.19  0.50  327.0  15.0  306.0  2.0   0  0.00  42.   996.   2 NAD-SFC NoSubs
 9  7 28 209 15  157.2 -9.000 -9.000 -9.000 1035. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  306.8  2.0   0  0.00  40.   996.   2 NAD-SFC NoSubs
 9  7 28 209 16  126.1 -9.000 -9.000 -9.000 1072. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  307.2  2.0   0  0.00  39.   996.   2 NAD-SFC NoSubs
 9  7 28 209 17   86.9  0.276  1.389  0.013 1096.  348.    -21.5  0.2930  0.52  0.22  2.10  341.0  15.0  307.1  2.0   0  0.00  43.   996.   3 NAD-SFC NoSubs
 9  7 28 209 18   40.8  0.413  1.083  0.013 1106.  638.   -153.7  0.2160  0.52  0.29  4.10  289.0  15.0  305.9  2.0   0  0.00  49.   996.   3 NAD-SFC NoSubs
 9  7 28 209 19  -21.6  0.507 -9.000 -9.000 -999.  865.    534.9  0.1750  0.52  0.51  5.70  266.0  15.0  300.8  2.0   0  0.00  58.   997.   2 NAD-SFC NoSubs
 9  7 28 209 20  -48.3  0.468 -9.000 -9.000 -999.  769.    188.2  0.2160  0.52  1.00  5.10  275.0  15.0  297.8  2.0   0  0.00  61.   997.   2 NAD-SFC NoSubs
 9  7 28 209 21  -41.3  0.398 -9.000 -9.000 -999.  606.    135.5  0.1750  0.52  1.00  4.60  267.0  15.0  296.0  2.0   0  0.00  65.   997.   2 NAD-SFC NoSubs
 9  7 28 209 22  -37.9  0.373 -9.000 -9.000 -999.  547.    121.4  0.2160  0.52  1.00  4.10  270.0  15.0  294.8  2.0   0  0.00  68.   998.   3 NAD-SFC NoSubs
 9  7 28 209 23  -33.2  0.325 -9.000 -9.000 -999.  447.     92.3  0.2160  0.52  1.00  3.60  282.0  15.0  293.8  2.0   0  0.00  71.   998.   3 NAD-SFC NoSubs
 9  7 28 209 24  -24.4  0.246 -9.000 -9.000 -999.  296.     54.5  0.2720  0.52  1.00  2.60  310.0  15.0  293.2  2.0   0  0.00  71.   998.   3 NAD-SFC NoSubs
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 9  7 29 210  1  -15.6  0.196 -9.000 -9.000 -999.  208.     42.5  0.2720  0.52  1.00  2.10  324.0  15.0  293.2  2.0   0  0.00  71.   998.    3 NAD-SFC NoSubs
 9  7 29 210  2   -7.9  0.137 -9.000 -9.000 -999.  122.     28.8  0.2720  0.52  1.00  1.50  322.0  15.0  293.0  2.0   0  0.00  71.   999.    2 NAD-SFC NoSubs
 9  7 29 210  3  -15.9  0.195 -9.000 -9.000 -999.  207.     41.9  0.2720  0.52  1.00  2.10  311.0  15.0  292.8  2.0   0  0.00  72.   999.    2 NAD-SFC NoSubs
 9  7 29 210  4  -22.2  0.231 -9.000 -9.000 -999.  266.     49.0  0.2160  0.52  1.00  2.60  296.0  15.0  292.4  2.0   0  0.00  73.   999.    2 NAD-SFC NoSubs
 9  7 29 210  5  -24.8  0.246 -9.000 -9.000 -999.  293.     53.6  0.2720  0.52  1.00  2.60  307.0  15.0  292.0  2.0   0  0.00  75.   999.    2 NAD-SFC NoSubs
 9  7 29 210  6  -14.0  0.198 -9.000 -9.000 -999.  211.     49.0  0.2720  0.52  0.57  2.10  321.0  15.0  291.8  2.0   0  0.00  77.  1000.    2 NAD-SFC NoSubs
 9  7 29 210  7   27.0  0.191  0.501  0.010  166.  200.    -23.0  0.2720  0.52  0.31  1.50  316.0  15.0  292.8  2.0   0  0.00  72.  1000.    2 NAD-SFC NoSubs
 9  7 29 210  8   74.0 -9.000 -9.000 -9.000  310. -999. -99999.0  0.2235  0.52  0.23  0.00    0.0  15.0  294.5  2.0   0  0.00  67.  1000.    2 NAD-SFC NoSubs
 9  7 29 210  9  115.5 -9.000 -9.000 -9.000  445. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  296.1  2.0   0  0.00  63.  1000.    2 NAD-SFC NoSubs
 9  7 29 210 10  148.9 -9.000 -9.000 -9.000  571. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  298.0  2.0   0  0.00  60.   999.    2 NAD-SFC NoSubs
 9  7 29 210 11  172.4 -9.000 -9.000 -9.000  693. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  299.8  2.0   0  0.00  56.   999.    2 NAD-SFC NoSubs
 9  7 29 210 12  184.9 -9.000 -9.000 -9.000  815. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.5  2.0   0  0.00  52.   998.    2 NAD-SFC NoSubs
 9  7 29 210 13  186.3 -9.000 -9.000 -9.000  922. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  303.0  2.0   0  0.00  48.   997.    2 NAD-SFC NoSubs
 9  7 29 210 14  176.9 -9.000 -9.000 -9.000  995. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  304.2  2.0   0  0.00  44.   997.    2 NAD-SFC NoSubs
 9  7 29 210 15  155.9  0.181  1.657  0.015 1038.  185.     -3.4  0.2930  0.52  0.19  1.00  348.0  15.0  305.0  2.0   0  0.00  41.   996.    2 NAD-SFC NoSubs
 9  7 29 210 16  124.9  0.177  1.555  0.015 1071.  178.     -3.9  0.2940  0.52  0.20  1.00   20.0  15.0  305.8  2.0   0  0.00  39.   996.    2 NAD-SFC NoSubs
 9  7 29 210 17   85.2  0.219  1.379  0.015 1093.  246.    -10.9  0.2940  0.52  0.22  1.50   12.0  15.0  306.0  2.0   0  0.00  39.   995.    2 NAD-SFC NoSubs
 9  7 29 210 18   40.4  0.253  1.078  0.015 1102.  306.    -35.7  0.2720  0.52  0.29  2.10  322.0  15.0  305.9  2.0   0  0.00  45.   996.    3 NAD-SFC NoSubs
 9  7 29 210 19  -19.6  0.477 -9.000 -9.000 -999.  790.    493.1  0.2160  0.52  0.51  5.10  281.0  15.0  302.6  2.0   0  0.00  53.   997.    2 NAD-SFC NoSubs
 9  7 29 210 20  -51.4  0.497 -9.000 -9.000 -999.  841.    212.9  0.1750  0.52  1.00  5.70  269.0  15.0  297.6  2.0   0  0.00  61.   997.    2 NAD-SFC NoSubs
 9  7 29 210 21  -41.4  0.398 -9.000 -9.000 -999.  610.    135.3  0.1750  0.52  1.00  4.60  268.0  15.0  295.8  2.0   0  0.00  65.   998.    2 NAD-SFC NoSubs
 9  7 29 210 22  -33.1  0.325 -9.000 -9.000 -999.  449.     92.6  0.2160  0.52  1.00  3.60  270.0  15.0  294.6  2.0   0  0.00  67.   998.    3 NAD-SFC NoSubs
 9  7 29 210 23  -28.4  0.278 -9.000 -9.000 -999.  353.     67.4  0.2160  0.52  1.00  3.10  285.0  15.0  293.8  2.0   0  0.00  69.   999.    3 NAD-SFC NoSubs
 9  7 29 210 24  -22.0  0.231 -9.000 -9.000 -999.  267.     49.9  0.2160  0.52  1.00  2.60  290.0  15.0  293.2  2.0   0  0.00  70.   999.    3 NAD-SFC NoSubs
 9  7 30 211  1   -7.8  0.137 -9.000 -9.000 -999.  125.     29.2  0.2720  0.52  1.00  1.50  322.0  15.0  293.0  2.0   0  0.00  70.   999.    3 NAD-SFC NoSubs
 9  7 30 211  2   -4.0  0.102 -9.000 -9.000 -999.   78.     23.6  0.2930  0.52  1.00  1.00  358.0  15.0  292.8  2.0   0  0.00  70.  1000.    2 NAD-SFC NoSubs
 9  7 30 211  3   -1.6  0.083 -9.000 -9.000 -999.   58.     31.8  0.2720  0.52  1.00  0.50  308.0  15.0  292.6  2.0   0  0.00  71.  1000.    2 NAD-SFC NoSubs
 9  7 30 211  4   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.2160  0.52  1.00  0.50  286.0  15.0  292.4  2.0   0  0.00  72.  1000.    2 NAD-SFC NoSubs
 9  7 30 211  5   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.2160  0.52  1.00  0.50  292.0  15.0  292.0  2.0   0  0.00  74.  1000.    2 NAD-SFC NoSubs
 9  7 30 211  6   -1.3  0.075 -9.000 -9.000 -999.   49.     29.4  0.2720  0.52  0.57  0.50  304.0  15.0  291.8  2.0   0  0.00  75.  1001.    2 NAD-SFC NoSubs
 9  7 30 211  7   26.7  0.144  0.468  0.010  137.  131.    -10.0  0.2720  0.52  0.31  1.00  328.0  15.0  293.2  2.0   0  0.00  72.  1001.    2 NAD-SFC NoSubs
 9  7 30 211  8   73.7 -9.000 -9.000 -9.000  294. -999. -99999.0  0.2235  0.52  0.23  0.00    0.0  15.0  295.0  2.0   0  0.00  67.  1001.    2 NAD-SFC NoSubs
 9  7 30 211  9  115.3 -9.000 -9.000 -9.000  435. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  296.8  2.0   0  0.00  62.  1001.    2 NAD-SFC NoSubs
 9  7 30 211 10  148.8 -9.000 -9.000 -9.000  562. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  298.6  2.0   0  0.00  59.  1000.    2 NAD-SFC NoSubs
 9  7 30 211 11  172.4 -9.000 -9.000 -9.000  689. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  300.4  2.0   0  0.00  55.  1000.    2 NAD-SFC NoSubs
 9  7 30 211 12  184.8 -9.000 -9.000 -9.000  831. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  302.0  2.0   0  0.00  52.   999.    2 NAD-SFC NoSubs
 9  7 30 211 13  186.2 -9.000 -9.000 -9.000  953. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  303.4  2.0   0  0.00  48.   999.    2 NAD-SFC NoSubs
 9  7 30 211 14  176.7  0.184  1.713  0.015 1014.  190.     -3.2  0.2940  0.52  0.19  1.00    5.0  15.0  304.5  2.0   0  0.00  45.   998.    2 NAD-SFC NoSubs
 9  7 30 211 15  155.7 -9.000 -9.000 -9.000 1057. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  305.2  2.0   0  0.00  43.   998.    2 NAD-SFC NoSubs
 9  7 30 211 16  124.5  0.333  1.561  0.015 1090.  460.    -26.3  0.2940  0.52  0.20  2.60   12.0  15.0  305.6  2.0   0  0.00  42.   998.    2 NAD-SFC NoSubs
 9  7 30 211 17   84.4  0.321  1.381  0.015 1112.  437.    -35.0  0.2940  0.52  0.22  2.60   19.0  15.0  305.5  2.0   0  0.00  49.   998.    2 NAD-SFC NoSubs
 9  7 30 211 18   39.6  0.257  1.076  0.015 1121.  315.    -38.4  0.2940  0.52  0.29  2.10    4.0  15.0  305.4  2.0   0  0.00  52.   999.    3 NAD-SFC NoSubs
 9  7 30 211 19  -10.2  0.334 -9.000 -9.000 -999.  463.    325.6  0.2160  0.52  0.52  3.60  294.0  15.0  304.2  2.0   0  0.00  52.   999.    3 NAD-SFC NoSubs
 9  7 30 211 20  -46.9  0.468 -9.000 -9.000 -999.  768.    194.7  0.2160  0.52  1.00  5.10  270.0  15.0  299.8  2.0   0  0.00  62.  1000.    3 NAD-SFC NoSubs
 9  7 30 211 21  -42.5  0.420 -9.000 -9.000 -999.  656.    155.7  0.2160  0.52  1.00  4.60  271.0  15.0  297.2  2.0   0  0.00  65.  1000.    3 NAD-SFC NoSubs
 9  7 30 211 22  -37.9  0.373 -9.000 -9.000 -999.  548.    122.0  0.2160  0.52  1.00  4.10  276.0  15.0  296.1  2.0   0  0.00  69.  1001.    3 NAD-SFC NoSubs
 9  7 30 211 23  -33.1  0.325 -9.000 -9.000 -999.  447.     92.9  0.2160  0.52  1.00  3.60  297.0  15.0  295.8  2.0   0  0.00  70.  1001.    3 NAD-SFC NoSubs
 9  7 30 211 24  -30.2  0.297 -9.000 -9.000 -999.  388.     77.2  0.2720  0.52  1.00  3.10  314.0  15.0  295.4  2.0   0  0.00  72.  1001.    3 NAD-SFC NoSubs
 9  7 31 212  1  -31.0  0.303 -9.000 -9.000 -999.  401.     80.5  0.2930  0.52  1.00  3.10  339.0  15.0  295.0  2.0   0  0.00  73.  1002.    3 NAD-SFC NoSubs
 9  7 31 212  2  -31.1  0.304 -9.000 -9.000 -999.  401.     80.5  0.2940  0.52  1.00  3.10   13.0  15.0  294.4  2.0   0  0.00  75.  1002.    3 NAD-SFC NoSubs
 9  7 31 212  3  -31.2  0.304 -9.000 -9.000 -999.  401.     80.3  0.2940  0.52  1.00  3.10   18.0  15.0  293.6  2.0   0  0.00  78.  1003.    3 NAD-SFC NoSubs
 9  7 31 212  4  -25.5  0.252 -9.000 -9.000 -999.  305.     56.2  0.2940  0.52  1.00  2.60   22.0  15.0  292.8  2.0   0  0.00  81.  1003.    3 NAD-SFC NoSubs
 9  7 31 212  5  -16.4  0.200 -9.000 -9.000 -999.  216.     43.8  0.2940  0.52  1.00  2.10   20.0  15.0  292.1  2.0   0  0.00  83.  1003.    3 NAD-SFC NoSubs
 9  7 31 212  6   -7.2  0.141 -9.000 -9.000 -999.  127.     34.5  0.2940  0.52  0.58  1.50   12.0  15.0  291.8  2.0   0  0.00  84.  1004.    3 NAD-SFC NoSubs
 9  7 31 212  7   27.1 -9.000 -9.000 -9.000  178. -999. -99999.0  0.2235  0.52  0.31  0.00    0.0  15.0  292.2  2.0   0  0.00  74.  1004.    3 NAD-SFC NoSubs
 9  7 31 212  8   73.7  0.108  0.827  0.010  274.   85.     -1.5  0.2930  0.52  0.23  0.50  330.0  15.0  294.1  2.0   0  0.00  66.  1004.    3 NAD-SFC NoSubs
 9  7 31 212  9  115.1 -9.000 -9.000 -9.000  371. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  295.9  2.0   0  0.00  60.  1004.    3 NAD-SFC NoSubs
 9  7 31 212 10  148.1 -9.000 -9.000 -9.000  528. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  297.8  2.0   0  0.00  54.  1004.    2 NAD-SFC NoSubs
 9  7 31 212 11  171.7 -9.000 -9.000 -9.000  682. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  299.4  2.0   0  0.00  50.  1003.    2 NAD-SFC NoSubs
 9  7 31 212 12  184.0  0.121  1.626  0.010  836.  101.     -1.0  0.2720  0.52  0.19  0.50  306.0  15.0  300.9  2.0   0  0.00  47.  1002.    2 NAD-SFC NoSubs
 9  7 31 212 13  185.4  0.123  1.712  0.012  968.  103.     -1.0  0.2930  0.52  0.19  0.50  332.0  15.0  302.2  2.0   0  0.00  45.  1001.    2 NAD-SFC NoSubs
 9  7 31 212 14  175.7  0.184  1.721  0.012 1038.  190.     -3.2  0.2940  0.52  0.19  1.00    4.0  15.0  303.1  2.0   0  0.00  43.  1001.    2 NAD-SFC NoSubs
 9  7 31 212 15  154.5  0.292  1.678  0.013 1094.  379.    -14.4  0.2940  0.52  0.19  2.10   10.0  15.0  303.5  2.0   0  0.00  43.  1001.    2 NAD-SFC NoSubs
 9  7 31 212 16  122.9  0.379  1.576  0.013 1137.  559.    -39.4  0.2940  0.52  0.20  3.10   24.0  15.0  303.5  2.0   0  0.00  45.  1000.    2 NAD-SFC NoSubs
 9  7 31 212 17   82.7  0.321  1.392  0.013 1164.  438.    -35.6  0.2940  0.52  0.22  2.60   25.0  15.0  303.1  2.0   0  0.00  54.  1000.    2 NAD-SFC NoSubs
 9  7 31 212 18   36.2  0.347  1.060  0.013 1174.  491.   -103.1  0.2940  0.52  0.29  3.10   25.0  15.0  302.2  2.0   0  0.00  58.  1001.    2 NAD-SFC NoSubs
 9  7 31 212 19  -15.2  0.361 -9.000 -9.000 -999.  521.    276.6  0.2940  0.52  0.52  3.60    6.0  15.0  301.2  2.0   0  0.00  60.  1001.    3 NAD-SFC NoSubs
 9  7 31 212 20  -35.6  0.355 -9.000 -9.000 -999.  507.    112.0  0.2930  0.52  1.00  3.60  336.0  15.0  300.1  2.0   0  0.00  62.  1001.    3 NAD-SFC NoSubs
 9  7 31 212 21  -40.1  0.397 -9.000 -9.000 -999.  601.    139.8  0.2720  0.52  1.00  4.10  308.0  15.0  298.5  2.0   0  0.00  67.  1002.    3 NAD-SFC NoSubs
 9  7 31 212 22  -37.9  0.373 -9.000 -9.000 -999.  547.    122.2  0.2160  0.52  1.00  4.10  287.0  15.0  296.4  2.0   0  0.00  71.  1002.    3 NAD-SFC NoSubs
 9  7 31 212 23  -34.1  0.325 -9.000 -9.000 -999.  447.     90.1  0.2160  0.52  1.00  3.60  287.0  15.0  294.8  2.0   0  0.00  70.  1002.    2 NAD-SFC NoSubs
 9  7 31 212 24  -29.2  0.278 -9.000 -9.000 -999.  353.     65.7  0.2160  0.52  1.00  3.10  298.0  15.0  294.1  2.0   0  0.00  70.  1003.    2 NAD-SFC NoSubs
 9  8  1 213  1  -31.2  0.296 -9.000 -9.000 -999.  387.     74.6  0.2720  0.52  1.00  3.10  319.0  15.0  293.8  2.0   0  0.00  72.  1003.    2 NAD-SFC NoSubs
 9  8  1 213  2  -25.7  0.252 -9.000 -9.000 -999.  304.     55.4  0.2930  0.52  1.00  2.60  330.0  15.0  293.5  2.0   0  0.00  73.  1003.    2 NAD-SFC NoSubs
 9  8  1 213  3  -16.5  0.200 -9.000 -9.000 -999.  215.     43.2  0.2930  0.52  1.00  2.10  339.0  15.0  293.2  2.0   0  0.00  75.  1004.    2 NAD-SFC NoSubs
 9  8  1 213  4  -16.5  0.200 -9.000 -9.000 -999.  214.     43.2  0.2930  0.52  1.00  2.10  350.0  15.0  292.8  2.0   0  0.00  76.  1004.    2 NAD-SFC NoSubs
 9  8  1 213  5   -8.3  0.140 -9.000 -9.000 -999.  126.     29.6  0.2930  0.52  1.00  1.50  347.0  15.0  292.4  2.0   0  0.00  78.  1004.    2 NAD-SFC NoSubs
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 9  8  1 213  6   -7.4  0.140 -9.000 -9.000 -999.  126.     33.2  0.2930  0.52  0.58  1.50  351.0  15.0  292.1  2.0   0  0.00  79.  1005.   2 NAD-SFC NoSubs
 9  8  1 213  7   25.3  0.193  0.510  0.010  188.  203.    -25.3  0.2940  0.52  0.31  1.50    9.0  15.0  291.9  2.0   0  0.00  79.  1005.   2 NAD-SFC NoSubs
 9  8  1 213  8   71.9  0.164  0.857  0.009  313.  160.     -5.5  0.2940  0.52  0.23  1.00    7.0  15.0  292.2  2.0   0  0.00  72.  1005.   2 NAD-SFC NoSubs
 9  8  1 213  9  113.5 -9.000 -9.000 -9.000  443. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  293.5  2.0   0  0.00  67.  1005.   2 NAD-SFC NoSubs
 9  8  1 213 10  146.7 -9.000 -9.000 -9.000  570. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  294.9  2.0   0  0.00  61.  1005.   2 NAD-SFC NoSubs
 9  8  1 213 11  170.1 -9.000 -9.000 -9.000  694. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  296.1  2.0   0  0.00  58.  1005.   2 NAD-SFC NoSubs
 9  8  1 213 12  182.2 -9.000 -9.000 -9.000  822. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  297.2  2.0   0  0.00  55.  1004.   2 NAD-SFC NoSubs
 9  8  1 213 13  183.4 -9.000 -9.000 -9.000  933. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  298.4  2.0   0  0.00  52.  1004.   2 NAD-SFC NoSubs
 9  8  1 213 14  173.5  0.122  1.695  0.012 1007.  102.     -1.0  0.2940  0.52  0.19  0.50    6.0  15.0  299.2  2.0   0  0.00  48.  1004.   2 NAD-SFC NoSubs
 9  8  1 213 15  152.3  0.233  1.650  0.012 1056.  270.     -7.5  0.2940  0.52  0.19  1.50   20.0  15.0  299.6  2.0   0  0.00  46.  1003.   2 NAD-SFC NoSubs
 9  8  1 213 16  120.7  0.219  1.544  0.012 1093.  245.     -7.7  0.2470  0.52  0.20  1.50   38.0  15.0  299.6  2.0   0  0.00  50.  1003.   2 NAD-SFC NoSubs
 9  8  1 213 17   80.4  0.202  1.358  0.012 1117.  218.     -9.2  0.2090  0.52  0.22  1.50   68.0  15.0  299.2  2.0   0  0.00  54.  1003.   2 NAD-SFC NoSubs
 9  8  1 213 18   34.1  0.185  1.023  0.012 1126.  192.    -16.7  0.2130  0.52  0.29  1.50   94.0  15.0  298.8  2.0   0  0.00  57.  1003.   2 NAD-SFC NoSubs
 9  8  1 213 19   -5.4  0.130 -9.000 -9.000 -999.  113.     36.3  0.2130  0.52  0.53  1.50  116.0  15.0  298.1  2.0   0  0.00  59.  1003.   2 NAD-SFC NoSubs
 9  8  1 213 20   -1.4  0.079 -9.000 -9.000 -999.   54.     30.9  0.1900  0.52  1.00  0.50  199.0  15.0  297.4  2.0   0  0.00  63.  1003.   2 NAD-SFC NoSubs
 9  8  1 213 21  -13.0  0.173 -9.000 -9.000 -999.  173.     35.7  0.1750  0.52  1.00  2.10  266.0  15.0  296.9  2.0   0  0.00  65.  1003.   2 NAD-SFC NoSubs
 9  8  1 213 22  -39.2  0.373 -9.000 -9.000 -999.  546.    118.2  0.2160  0.52  1.00  4.10  277.0  15.0  294.6  2.0   0  0.00  71.  1004.   2 NAD-SFC NoSubs
 9  8  1 213 23  -39.4  0.372 -9.000 -9.000 -999.  546.    117.3  0.2160  0.52  1.00  4.10  288.0  15.0  292.4  2.0   0  0.00  75.  1004.   2 NAD-SFC NoSubs
 9  8  1 213 24  -34.6  0.325 -9.000 -9.000 -999.  446.     89.1  0.2160  0.52  1.00  3.60  289.0  15.0  291.5  2.0   0  0.00  76.  1005.   2 NAD-SFC NoSubs
 9  8  2 214  1  -29.6  0.278 -9.000 -9.000 -999.  353.     64.9  0.2160  0.52  1.00  3.10  292.0  15.0  290.8  2.0   0  0.00  78.  1005.   2 NAD-SFC NoSubs
 9  8  2 214  2  -30.9  0.297 -9.000 -9.000 -999.  388.     75.7  0.2720  0.52  1.00  3.10  301.0  15.0  290.2  2.0   0  0.00  80.  1005.   3 NAD-SFC NoSubs
 9  8  2 214  3  -24.7  0.246 -9.000 -9.000 -999.  294.     54.1  0.2720  0.52  1.00  2.60  310.0  15.0  290.0  2.0   0  0.00  81.  1006.   3 NAD-SFC NoSubs
 9  8  2 214  4  -24.7  0.246 -9.000 -9.000 -999.  293.     54.1  0.2720  0.52  1.00  2.60  314.0  15.0  289.8  2.0   0  0.00  82.  1006.   3 NAD-SFC NoSubs
 9  8  2 214  5  -15.9  0.195 -9.000 -9.000 -999.  208.     42.2  0.2720  0.52  1.00  2.10  325.0  15.0  289.5  2.0   0  0.00  84.  1007.   3 NAD-SFC NoSubs
 9  8  2 214  6   -7.6  0.140 -9.000 -9.000 -999.  126.     32.5  0.2930  0.52  0.59  1.50  332.0  15.0  289.2  2.0   0  0.00  86.  1007.   2 NAD-SFC NoSubs
 9  8  2 214  7   24.3 -9.000 -9.000 -9.000  165. -999. -99999.0  0.2235  0.52  0.31  0.00    0.0  15.0  290.1  2.0   0  0.00  81.  1007.   2 NAD-SFC NoSubs
 9  8  2 214  8   71.4 -9.000 -9.000 -9.000  305. -999. -99999.0  0.2235  0.52  0.23  0.00    0.0  15.0  292.0  2.0   0  0.00  73.  1007.   2 NAD-SFC NoSubs
 9  8  2 214  9  113.1 -9.000 -9.000 -9.000  440. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  293.8  2.0   0  0.00  68.  1006.   2 NAD-SFC NoSubs
 9  8  2 214 10  146.6 -9.000 -9.000 -9.000  574. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  295.4  2.0   0  0.00  62.  1006.   2 NAD-SFC NoSubs
 9  8  2 214 11  170.2 -9.000 -9.000 -9.000  697. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  297.2  2.0   0  0.00  55.  1005.   2 NAD-SFC NoSubs
 9  8  2 214 12  182.7 -9.000 -9.000 -9.000  807. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  299.1  2.0   0  0.00  48.  1004.   2 NAD-SFC NoSubs
 9  8  2 214 13  183.8 -9.000 -9.000 -9.000  904. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  300.2  2.0   0  0.00  43.  1003.   2 NAD-SFC NoSubs
 9  8  2 214 14  174.1  0.122  1.687  0.009  989.  102.     -1.0  0.2930  0.52  0.19  0.50  337.0  15.0  301.2  2.0   0  0.00  40.  1003.   2 NAD-SFC NoSubs
 9  8  2 214 15  152.8 -9.000 -9.000 -9.000 1064. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.8  2.0   0  0.00  38.  1002.   2 NAD-SFC NoSubs
 9  8  2 214 16  121.4  0.286  1.561  0.010 1121.  366.    -17.1  0.2940  0.52  0.20  2.10   24.0  15.0  302.1  2.0   0  0.00  37.  1002.   2 NAD-SFC NoSubs
 9  8  2 214 17   81.1  0.320  1.380  0.010 1157.  435.    -36.1  0.2940  0.52  0.22  2.60   19.0  15.0  302.0  2.0   0  0.00  39.  1001.   2 NAD-SFC NoSubs
 9  8  2 214 18   34.7  0.300  1.043  0.010 1170.  395.    -69.5  0.2940  0.52  0.30  2.60   26.0  15.0  301.4  2.0   0  0.00  48.  1002.   2 NAD-SFC NoSubs
 9  8  2 214 19  -13.9  0.243 -9.000 -9.000 -999.  290.     92.7  0.2470  0.52  0.53  2.60   35.0  15.0  300.5  2.0   0  0.00  50.  1002.   2 NAD-SFC NoSubs
 9  8  2 214 20   -8.2  0.140 -9.000 -9.000 -999.  130.     29.9  0.2930  0.52  1.00  1.50  357.0  15.0  299.2  2.0   0  0.00  53.  1002.   2 NAD-SFC NoSubs
 9  8  2 214 21  -48.8  0.468 -9.000 -9.000 -999.  767.    187.5  0.2160  0.52  1.00  5.10  280.0  15.0  296.8  2.0   0  0.00  59.  1003.   2 NAD-SFC NoSubs
 9  8  2 214 22  -49.4  0.467 -9.000 -9.000 -999.  767.    185.1  0.2160  0.52  1.00  5.10  275.0  15.0  293.1  2.0   0  0.00  65.  1004.   2 NAD-SFC NoSubs
 9  8  2 214 23  -39.5  0.372 -9.000 -9.000 -999.  552.    117.1  0.2160  0.52  1.00  4.10  281.0  15.0  291.9  2.0   0  0.00  68.  1004.   2 NAD-SFC NoSubs
 9  8  2 214 24  -34.6  0.325 -9.000 -9.000 -999.  447.     89.0  0.2160  0.52  1.00  3.60  283.0  15.0  291.1  2.0   0  0.00  70.  1004.   2 NAD-SFC NoSubs
 9  8  3 215  1  -24.7  0.246 -9.000 -9.000 -999.  296.     54.2  0.2720  0.52  1.00  2.60  310.0  15.0  290.5  2.0   0  0.00  70.  1005.   3 NAD-SFC NoSubs
 9  8  3 215  2  -16.4  0.200 -9.000 -9.000 -999.  215.     43.6  0.2930  0.52  1.00  2.10  347.0  15.0  290.2  2.0   0  0.00  71.  1005.   3 NAD-SFC NoSubs
 9  8  3 215  3   -8.2  0.140 -9.000 -9.000 -999.  126.     29.8  0.2930  0.52  1.00  1.50  340.0  15.0  289.8  2.0   0  0.00  73.  1006.   3 NAD-SFC NoSubs
 9  8  3 215  4   -7.9  0.137 -9.000 -9.000 -999.  121.     29.0  0.2720  0.52  1.00  1.50  320.0  15.0  289.4  2.0   0  0.00  76.  1006.   3 NAD-SFC NoSubs
 9  8  3 215  5   -7.9  0.137 -9.000 -9.000 -999.  121.     29.0  0.2720  0.52  1.00  1.50  309.0  15.0  289.0  2.0   0  0.00  77.  1006.   3 NAD-SFC NoSubs
 9  8  3 215  6   -7.2  0.137 -9.000 -9.000 -999.  122.     32.0  0.2720  0.52  0.59  1.50  321.0  15.0  288.8  2.0   0  0.00  79.  1007.   3 NAD-SFC NoSubs
 9  8  3 215  7   23.7  0.188  0.463  0.011  150.  196.    -25.3  0.2720  0.52  0.31  1.50  329.0  15.0  289.8  2.0   0  0.00  75.  1007.   2 NAD-SFC NoSubs
 9  8  3 215  8   70.9 -9.000 -9.000 -9.000  268. -999. -99999.0  0.2235  0.52  0.23  0.00    0.0  15.0  291.8  2.0   0  0.00  67.  1007.   2 NAD-SFC NoSubs
 9  8  3 215  9  112.7 -9.000 -9.000 -9.000  386. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  293.4  2.0   0  0.00  61.  1007.   2 NAD-SFC NoSubs
 9  8  3 215 10  146.3 -9.000 -9.000 -9.000  510. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  295.4  2.0   0  0.00  55.  1006.   2 NAD-SFC NoSubs
 9  8  3 215 11  169.9 -9.000 -9.000 -9.000  626. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  297.2  2.0   0  0.00  51.  1006.   2 NAD-SFC NoSubs
 9  8  3 215 12  182.3 -9.000 -9.000 -9.000  765. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  298.9  2.0   0  0.00  46.  1005.   2 NAD-SFC NoSubs
 9  8  3 215 13  183.6 -9.000 -9.000 -9.000  896. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  300.4  2.0   0  0.00  42.  1004.   2 NAD-SFC NoSubs
 9  8  3 215 14  173.9  0.120  1.693  0.010 1000.   99.     -1.0  0.2720  0.52  0.19  0.50  329.0  15.0  301.5  2.0   0  0.00  38.  1003.   2 NAD-SFC NoSubs
 9  8  3 215 15  152.7  0.233  1.662  0.010 1076.  270.     -7.4  0.2930  0.52  0.19  1.50  350.0  15.0  302.2  2.0   0  0.00  36.  1002.   2 NAD-SFC NoSubs
 9  8  3 215 16  121.4 -9.000 -9.000 -9.000 1132. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  303.0  2.0   0  0.00  35.  1002.   2 NAD-SFC NoSubs
 9  8  3 215 17   81.0  0.320  1.383  0.011 1168.  435.    -36.2  0.2940  0.52  0.22  2.60   12.0  15.0  302.8  2.0   0  0.00  38.  1001.   2 NAD-SFC NoSubs
 9  8  3 215 18   34.5  0.300  1.044  0.011 1181.  394.    -69.9  0.2940  0.52  0.30  2.60   25.0  15.0  302.2  2.0   0  0.00  47.  1002.   2 NAD-SFC NoSubs
 9  8  3 215 19  -18.1  0.307 -9.000 -9.000 -999.  409.    143.3  0.2940  0.52  0.54  3.10   24.0  15.0  301.1  2.0   0  0.00  51.  1002.   2 NAD-SFC NoSubs
 9  8  3 215 20  -30.6  0.297 -9.000 -9.000 -999.  388.     76.2  0.2720  0.52  1.00  3.10  301.0  15.0  299.8  2.0   0  0.00  54.  1002.   2 NAD-SFC NoSubs
 9  8  3 215 21  -48.9  0.468 -9.000 -9.000 -999.  767.    186.7  0.2160  0.52  1.00  5.10  277.0  15.0  295.5  2.0   0  0.00  66.  1003.   2 NAD-SFC NoSubs
 9  8  3 215 22  -42.0  0.398 -9.000 -9.000 -999.  606.    134.1  0.1750  0.52  1.00  4.60  267.0  15.0  293.2  2.0   0  0.00  70.  1004.   2 NAD-SFC NoSubs
 9  8  3 215 23  -39.5  0.372 -9.000 -9.000 -999.  546.    117.2  0.2160  0.52  1.00  4.10  277.0  15.0  292.2  2.0   0  0.00  73.  1004.   2 NAD-SFC NoSubs
 9  8  3 215 24  -31.6  0.296 -9.000 -9.000 -999.  391.     74.0  0.2720  0.52  1.00  3.10  300.0  15.0  291.2  2.0   0  0.00  75.  1005.   2 NAD-SFC NoSubs
 9  8  4 216  1  -25.9  0.251 -9.000 -9.000 -999.  304.     55.1  0.2930  0.52  1.00  2.60  336.0  15.0  290.8  2.0   0  0.00  76.  1006.   2 NAD-SFC NoSubs
 9  8  4 216  2  -25.6  0.252 -9.000 -9.000 -999.  303.     55.8  0.2930  0.52  1.00  2.60  349.0  15.0  290.4  2.0   0  0.00  78.  1006.   3 NAD-SFC NoSubs
 9  8  4 216  3   -8.2  0.140 -9.000 -9.000 -999.  132.     29.8  0.2930  0.52  1.00  1.50  337.0  15.0  290.1  2.0   0  0.00  79.  1007.   3 NAD-SFC NoSubs
 9  8  4 216  4   -7.9  0.137 -9.000 -9.000 -999.  121.     29.0  0.2720  0.52  1.00  1.50  318.0  15.0  289.8  2.0   0  0.00  79.  1007.   3 NAD-SFC NoSubs
 9  8  4 216  5   -4.0  0.101 -9.000 -9.000 -999.   77.     23.3  0.2720  0.52  1.00  1.00  319.0  15.0  289.5  2.0   0  0.00  80.  1007.   2 NAD-SFC NoSubs
 9  8  4 216  6   -1.4  0.079 -9.000 -9.000 -999.   53.     30.5  0.2940  0.52  0.60  0.50    2.0  15.0  289.2  2.0   0  0.00  82.  1008.   2 NAD-SFC NoSubs
 9  8  4 216  7   23.3  0.144  0.494  0.012  185.  132.    -11.6  0.2940  0.52  0.32  1.00    7.0  15.0  290.2  2.0   0  0.00  78.  1008.   2 NAD-SFC NoSubs
 9  8  4 216  8   70.5 -9.000 -9.000 -9.000  291. -999. -99999.0  0.2235  0.52  0.23  0.00    0.0  15.0  292.0  2.0   0  0.00  68.  1008.   2 NAD-SFC NoSubs
 9  8  4 216  9  112.3 -9.000 -9.000 -9.000  398. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  293.5  2.0   0  0.00  62.  1008.   2 NAD-SFC NoSubs
 9  8  4 216 10  146.0 -9.000 -9.000 -9.000  517. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  295.5  2.0   0  0.00  56.  1007.   2 NAD-SFC NoSubs
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9	8	4	216	11	169.6	-9.000	-9.000	-9.000	628.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.2	2.0	0	0.00	51.	1007.	2	NAD-SFC	NoSubs
9	8	4	216	12	182.0	-9.000	-9.000	-9.000	754.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.9	2.0	0	0.00	48.	1006.	2	NAD-SFC	NoSubs
9	8	4	216	13	183.2	-9.000	-9.000	-9.000	872.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.2	2.0	0	0.00	45.	1005.	2	NAD-SFC	NoSubs
9	8	4	216	14	173.5	0.122	1.675	0.010	971.	102.	-1.0	0.2930	0.52	0.19	0.50	337.0	15.0	301.5	2.0	0	0.00	43.	1004.	2	NAD-SFC	NoSubs
9	8	4	216	15	152.3	0.181	1.642	0.011	1043.	184.	-3.5	0.2930	0.52	0.19	1.00	353.0	15.0	302.2	2.0	0	0.00	40.	1004.	2	NAD-SFC	NoSubs
9	8	4	216	16	120.7	0.227	1.546	0.011	1097.	260.	-8.7	0.2940	0.52	0.20	1.50	8.0	15.0	302.6	2.0	0	0.00	39.	1003.	2	NAD-SFC	NoSubs
9	8	4	216	17	80.3	0.320	1.364	0.011	1131.	434.	-36.5	0.2940	0.52	0.22	2.60	18.0	15.0	302.5	2.0	0	0.00	41.	1003.	2	NAD-SFC	NoSubs
9	8	4	216	18	33.8	0.244	1.026	0.011	1144.	292.	-38.6	0.2470	0.52	0.30	2.10	32.0	15.0	302.1	2.0	0	0.00	49.	1003.	2	NAD-SFC	NoSubs
9	8	4	216	19	-11.9	0.194	-9.000	-9.000	-999.	206.	54.9	0.2470	0.52	0.54	2.10	42.0	15.0	301.0	2.0	0	0.00	52.	1003.	2	NAD-SFC	NoSubs
9	8	4	216	20	-3.7	0.098	-9.000	-9.000	-999.	78.	22.9	0.2470	0.52	1.00	1.00	42.0	15.0	299.8	2.0	0	0.00	56.	1003.	2	NAD-SFC	NoSubs
9	8	4	216	21	-14.2	0.183	-9.000	-9.000	-999.	188.	38.7	0.2160	0.52	1.00	2.10	285.0	15.0	298.2	2.0	0	0.00	61.	1004.	2	NAD-SFC	NoSubs
9	8	4	216	22	-49.1	0.468	-9.000	-9.000	-999.	767.	186.3	0.2160	0.52	1.00	5.10	285.0	15.0	294.9	2.0	0	0.00	69.	1004.	2	NAD-SFC	NoSubs
9	8	4	216	23	-39.4	0.372	-9.000	-9.000	-999.	552.	117.5	0.2160	0.52	1.00	4.10	293.0	15.0	292.9	2.0	0	0.00	71.	1005.	2	NAD-SFC	NoSubs
9	8	4	216	24	-34.5	0.325	-9.000	-9.000	-999.	447.	89.3	0.2160	0.52	1.00	3.60	299.0	15.0	292.0	2.0	0	0.00	73.	1005.	2	NAD-SFC	NoSubs
9	8	5	217	1	-37.7	0.354	-9.000	-9.000	-999.	506.	105.8	0.2930	0.52	1.00	3.60	330.0	15.0	291.4	2.0	0	0.00	76.	1005.	2	NAD-SFC	NoSubs
9	8	5	217	2	-32.3	0.303	-9.000	-9.000	-999.	402.	77.2	0.2930	0.52	1.00	3.10	352.0	15.0	291.0	2.0	0	0.00	79.	1006.	2	NAD-SFC	NoSubs
9	8	5	217	3	-16.6	0.200	-9.000	-9.000	-999.	219.	43.0	0.2930	0.52	1.00	2.10	354.0	15.0	290.8	2.0	0	0.00	81.	1006.	2	NAD-SFC	NoSubs
9	8	5	217	4	-4.1	0.102	-9.000	-9.000	-999.	83.	23.7	0.2940	0.52	1.00	1.00	5.0	15.0	290.2	2.0	0	0.00	84.	1006.	2	NAD-SFC	NoSubs
9	8	5	217	5	-1.7	0.084	-9.000	-9.000	-999.	59.	32.1	0.2940	0.52	1.00	0.50	11.0	15.0	289.8	2.0	0	0.00	86.	1007.	2	NAD-SFC	NoSubs
9	8	5	217	6	-1.4	0.078	-9.000	-9.000	-999.	52.	30.3	0.2470	0.52	0.60	0.50	35.0	15.0	289.2	2.0	0	0.00	87.	1007.	2	NAD-SFC	NoSubs
9	8	5	217	7	22.8	0.144	0.507	0.013	205.	131.	-11.8	0.2940	0.52	0.32	1.00	16.0	15.0	290.1	2.0	0	0.00	80.	1007.	2	NAD-SFC	NoSubs
9	8	5	217	8	70.0	-9.000	-9.000	-9.000	283.	-999.	-99999.0	0.2235	0.52	0.23	0.00	0.0	15.0	291.8	2.0	0	0.00	69.	1007.	2	NAD-SFC	NoSubs
9	8	5	217	9	111.9	-9.000	-9.000	-9.000	375.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	293.5	2.0	0	0.00	63.	1007.	2	NAD-SFC	NoSubs
9	8	5	217	10	145.6	-9.000	-9.000	-9.000	489.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.5	2.0	0	0.00	56.	1006.	2	NAD-SFC	NoSubs
9	8	5	217	11	169.3	-9.000	-9.000	-9.000	598.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.4	2.0	0	0.00	51.	1006.	2	NAD-SFC	NoSubs
9	8	5	217	12	181.8	-9.000	-9.000	-9.000	724.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.2	2.0	0	0.00	46.	1005.	2	NAD-SFC	NoSubs
9	8	5	217	13	183.1	-9.000	-9.000	-9.000	867.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.8	2.0	0	0.00	41.	1004.	2	NAD-SFC	NoSubs
9	8	5	217	14	173.3	-9.000	-9.000	-9.000	980.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.8	2.0	0	0.00	37.	1003.	2	NAD-SFC	NoSubs
9	8	5	217	15	152.0	0.120	1.643	0.010	1044.	99.	-1.0	0.2940	0.52	0.19	0.50	12.0	15.0	302.5	2.0	0	0.00	34.	1002.	2	NAD-SFC	NoSubs
9	8	5	217	16	120.4	0.227	1.543	0.010	1092.	260.	-8.7	0.2940	0.52	0.20	1.50	20.0	15.0	303.0	2.0	0	0.00	33.	1002.	2	NAD-SFC	NoSubs
9	8	5	217	17	79.8	0.274	1.358	0.010	1122.	344.	-23.0	0.2940	0.52	0.22	2.10	26.0	15.0	302.8	2.0	0	0.00	34.	1002.	2	NAD-SFC	NoSubs
9	8	5	217	18	33.4	0.198	1.019	0.010	1134.	214.	-20.9	0.2940	0.52	0.30	1.50	21.0	15.0	302.5	2.0	0	0.00	41.	1002.	2	NAD-SFC	NoSubs
9	8	5	217	19	-27.7	0.424	-9.000	-9.000	-999.	663.	246.6	0.2160	0.52	0.55	4.60	291.0	15.0	300.6	2.0	0	0.00	46.	1003.	2	NAD-SFC	NoSubs
9	8	5	217	20	-55.0	0.525	-9.000	-9.000	-999.	912.	235.2	0.2160	0.52	1.00	5.70	270.0	15.0	295.2	2.0	0	0.00	61.	1003.	2	NAD-SFC	NoSubs
9	8	5	217	21	-46.8	0.443	-9.000	-9.000	-999.	714.	166.1	0.1750	0.52	1.00	5.10	268.0	15.0	292.9	2.0	0	0.00	66.	1004.	2	NAD-SFC	NoSubs
9	8	5	217	22	-44.7	0.420	-9.000	-9.000	-999.	654.	148.5	0.2160	0.52	1.00	4.60	270.0	15.0	291.4	2.0	0	0.00	69.	1005.	2	NAD-SFC	NoSubs
9	8	5	217	23	-33.8	0.325	-9.000	-9.000	-999.	451.	91.2	0.2160	0.52	1.00	3.60	287.0	15.0	290.4	2.0	0	0.00	72.	1005.	3	NAD-SFC	NoSubs
9	8	5	217	24	-16.4	0.200	-9.000	-9.000	-999.	224.	43.6	0.2930	0.52	1.00	2.10	340.0	15.0	290.0	2.0	0	0.00	73.	1006.	3	NAD-SFC	NoSubs
9	8	6	218	1	-8.2	0.140	-9.000	-9.000	-999.	127.	29.8	0.2930	0.52	1.00	1.50	332.0	15.0	289.8	2.0	0	0.00	73.	1006.	3	NAD-SFC	NoSubs
9	8	6	218	2	-22.3	0.231	-9.000	-9.000	-999.	266.	49.5	0.2160	0.52	1.00	2.60	285.0	15.0	289.2	2.0	0	0.00	73.	1007.	3	NAD-SFC	NoSubs
9	8	6	218	3	-27.7	0.263	-9.000	-9.000	-999.	324.	59.3	0.1750	0.52	1.00	3.10	268.0	15.0	288.2	2.0	0	0.00	78.	1007.	3	NAD-SFC	NoSubs
9	8	6	218	4	-27.7	0.263	-9.000	-9.000	-999.	324.	59.1	0.1750	0.52	1.00	3.10	268.0	15.0	287.2	2.0	0	0.00	82.	1007.	3	NAD-SFC	NoSubs
9	8	6	218	5	-22.4	0.231	-9.000	-9.000	-999.	266.	49.2	0.2160	0.52	1.00	2.60	294.0	15.0	286.6	2.0	0	0.00	85.	1007.	3	NAD-SFC	NoSubs
9	8	6	218	6	-23.5	0.247	-9.000	-9.000	-999.	294.	57.6	0.2720	0.52	0.61	2.60	306.0	15.0	286.5	2.0	0	0.00	84.	1007.	2	NAD-SFC	NoSubs
9	8	6	218	7	21.7	0.241	0.453	0.007	154.	284.	-58.1	0.2720	0.52	0.32	2.10	323.0	15.0	287.8	2.0	0	0.00	77.	1008.	2	NAD-SFC	NoSubs
9	8	6	218	8	68.8	-9.000	-9.000	-9.000	324.	-999.	-99999.0	0.2235	0.52	0.23	0.00	0.0	15.0	289.1	2.0	0	0.00	73.	1008.	2	NAD-SFC	NoSubs
9	8	6	218	9	110.6	-9.000	-9.000	-9.000	500.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	290.4	2.0	0	0.00	69.	1007.	2	NAD-SFC	NoSubs
9	8	6	218	10	144.1	-9.000	-9.000	-9.000	661.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	292.2	2.0	0	0.00	60.	1007.	2	NAD-SFC	NoSubs
9	8	6	218	11	167.6	-9.000	-9.000	-9.000	759.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	293.8	2.0	0	0.00	53.	1007.	2	NAD-SFC	NoSubs
9	8	6	218	12	179.7	-9.000	-9.000	-9.000	853.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.2	2.0	0	0.00	46.	1006.	3	NAD-SFC	NoSubs
9	8	6	218	13	180.8	0.182	1.678	0.008	938.	186.	-3.0	0.2720	0.52	0.19	1.00	316.0	15.0	296.5	2.0	0	0.00	41.	1005.	3	NAD-SFC	NoSubs
9	8	6	218	14	170.9	0.237	1.698	0.008	1028.	276.	-6.9	0.2930	0.52	0.19	1.50	342.0	15.0	297.4	2.0	0	0.00	38.	1004.	3	NAD-SFC	NoSubs
9	8	6	218	15	149.5	0.384	1.666	0.008	1110.	571.	-33.9	0.2930	0.52	0.19	3.10	346.0	15.0	297.8	2.0	0	0.00	37.	1004.	3	NAD-SFC	NoSubs
9	8	6	218	16	117.9	0.514	1.567	0.008	1169.	885.	-103.4	0.2930	0.52	0.20	4.60	360.0	15.0	297.8	2.0	0	0.00	39.	1004.	3	NAD-SFC	NoSubs
9	8	6	218	17	77.5	-9.000	-9.000	-9.000	1206.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	297.1	2.0	0	0.00	45.	1004.	3	NAD-SFC	NoSubs
9	8	6	218	18	31.1	0.391	1.019	0.008	1218.	587.	-172.2	0.2940	0.52	0.30	3.60	1.0	15.0	296.0	2.0	0	0.00	56.	1004.	3	NAD-SFC	NoSubs
9	8	6	218	19	-28.8	0.409	-9.000	-9.000	-999.	628.	213.1	0.2930	0.52	0.56	4.10	354.0	15.0	294.2	2.0	0	0.00	61.	1004.	3	NAD-SFC	NoSubs
9	8	6	218	20	-41.9	0.406	-9.000	-9.000	-999.	621.	143.1	0.2930	0.52	1.00	4.10	348.0	15.0	292.8	2.0	0	0.00	68.	1005.	3	NAD-SFC	NoSubs
9	8	6	218	21	-36.8	0.355	-9.000	-9.000	-999.	508.	108.6	0.2930	0.52	1.00	3.60	336.0	15.0	291.4	2.0	0	0.00	74.	1005.	3	NAD-SFC	NoSubs
9	8	6	218	22	-31.5	0.303	-9.000	-9.000	-999.	402.	79.2	0.2930	0.52	1.00	3.10	336.0	15.0	290.5	2.0	0	0.00	79.	1005.	3	NAD-SFC	NoSubs
9	8	6	218	23	-25.6	0.252	-9.000	-9.000	-999.	304.	55.8	0.2930	0.52	1.00	2.60	334.0	15.0	289.8	2.0	0	0.00	83.	1006.	3	NAD-SFC	NoSubs
9	8	6	218	24	-22.2	0.231	-9.000	-9.000	-999.	266.	49.5	0.2160	0.52	1.00	2.60	298.0	15.0	289.1	2.0	0	0.00	85.	1005.	3	NAD-SFC	NoSubs
9	8	7	219	1	-22.2	0.231	-9.000	-9.000	-999.	266.	49.4	0.2160	0.52	1.00	2.60	291.0	15.0	288.6	2.0	0	0.00	87.	1005.	3	NAD-SFC	NoSubs
9	8	7	219	2	-22.3	0.231	-9.000	-9.000	-999.	266.	49.4	0.2160	0.52	1.00	2.60	292.0	15.0	288.1	2.0	0	0.00	89.	1005.	3	NAD-SFC	NoSubs
9	8	7	219	3	-15.9	0.195	-9.000	-9.000	-999.	208.	42.1	0.2720	0.52	1.00	2.10	301.0	15.0	287.8	2.0	0	0.00	90.	1005.	3	NAD-SFC	NoSubs
9	8	7	219	4	-8.0	0.137	-9.000	-9.000	-999.	122.	28.9	0.2720	0.52	1.00	1.50	311.0	15.0	287.4	2.0	0	0.00	91.	1006.	3	NAD-SFC	NoSubs
9	8	7	219	5	-1.6	0.083	-9.000	-9.000	-999.	58.	31.8	0.2720	0.52	1.00	0.50	318.0	15.0	287.1	2.0	0	0.00	92.	1006.	3	NAD-SFC	NoSubs
9	8	7	219	6	10.5	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.62	0.00	0.0	15.0	286.9	2.0	0	0.00	93.	1007.	3	NAD-SFC	NoSubs
9	8	7	219	7	22.6	0.144	0.505	0.006	205.	131.	-11.8	0.2930	0.52	0.32	1.00	347.0	15.0	288.2	2.0	0	0.00	84.	1007.	3	NAD-SFC	NoSubs
9	8	7	219	8	69.4	-9.000	-9.000	-9.000	367.	-999.	-99999.0	0.2235	0.52	0.23	0.00	0.0	15.0	289.9	2.0	0	0.00	76.	1007.	3	NAD-SFC	NoSubs
9	8	7	219	9	110.9	-9.000	-9.000	-9.000	528.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	291.4	2.0	0	0.00	69.	1007.	3	NAD-SFC	NoSubs
9	8	7	219	10	144.2	-9.000	-9.000	-9.000	692.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	293.1	2.0	0	0.00	62.	1007.	3	NAD-SFC	NoSubs
9	8	7	219	11	167.5	-9.000	-9.000	-9.000	874.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.6	2.0	0	0.00	55.	1006.	3	NAD-SFC	NoSubs
9	8	7	219	12	179.7	0.114	1.719	0.008	1015.	93.	-1.0	0.2160	0.52	0.19	0.50	290.0	15.0	296.2	2.0	0	0.00	49.	1005.	3	NAD-SFC	NoSubs
9	8	7	219	13	180.8	0.173	1.776	0.008	1112.	172.	-2.5	0.2160	0.52	0.19	1.00	296.0	15.0	297.5	2.0	0	0.00	42.	1004.	3	NAD-SFC	NoSubs
9	8	7	219	14	170.9	0.290	1.786	0.009	1196.	375.	-12.8	0.2720	0.52	0.19	2.10	317.0	15.0	298.5	2.0	0	0.00	38.	1004.	3	NAD-SFC	NoSubs
9	8	7	219	15	149.6	0.338	1.742	0.009	1265.	472.	-23.1	0.2930	0.52	0.19	2.60	344.0	15.0	299.0	2.0	0	0.00	36.	1003.	3	NAD-SFC	NoSubs

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 9  8  7 219 16   118.0   0.423   1.631   0.009 1317.   659.     -57.2  0.2930  0.52  0.20    3.60   346.0  15.0  299.1   2.0    0   0.00   37.  1003.     3 NAD-SFC NoSubs
 9  8  7 219 17    77.6  -9.000  -9.000  -9.000 1347.  -999.  -99999.0  0.2235  0.52  0.22    0.00     0.0  15.0  298.8   2.0    0   0.00   42.  1003.     3 NAD-SFC NoSubs
 9  8  7 219 18    30.1   0.297   1.045   0.009 1357.   389.     -78.0  0.2940  0.52  0.30    2.60    11.0  15.0  298.2   2.0    0   0.00   49.  1003.     2 NAD-SFC NoSubs
 9  8  7 219 19   -14.1   0.203  -9.000  -9.000 -999.   223.      53.1  0.2940  0.52  0.56    2.10     6.0  15.0  297.6   2.0    0   0.00   50.  1004.     2 NAD-SFC NoSubs
 9  8  7 219 20    -3.9   0.100  -9.000  -9.000 -999.    82.      23.3  0.2720  0.52  1.00    1.00   326.0  15.0  296.5   2.0    0   0.00   54.  1004.     2 NAD-SFC NoSubs
 9  8  7 219 21    -3.6   0.096  -9.000  -9.000 -999.    72.      22.4  0.2160  0.52  1.00    1.00   278.0  15.0  295.2   2.0    0   0.00   58.  1005.     2 NAD-SFC NoSubs
 9  8  7 219 22    -3.4   0.093  -9.000  -9.000 -999.    68.      21.7  0.1750  0.52  1.00    1.00   261.0  15.0  294.0   2.0    0   0.00   63.  1005.     2 NAD-SFC NoSubs
 9  8  7 219 23    -1.5   0.080  -9.000  -9.000 -999.    54.      31.1  0.1950  0.52  1.00    0.50   226.0  15.0  292.8   2.0    0   0.00   67.  1005.     2 NAD-SFC NoSubs
 9  8  7 219 24    -1.5   0.080  -9.000  -9.000 -999.    54.      31.1  0.1900  0.52  1.00    0.50   186.0  15.0  291.8   2.0    0   0.00   70.  1005.     2 NAD-SFC NoSubs
 9  8  8 220  1    -1.5   0.080  -9.000  -9.000 -999.    54.      31.2  0.1970  0.52  1.00    0.50   127.0  15.0  291.1   2.0    0   0.00   71.  1005.     2 NAD-SFC NoSubs
 9  8  8 220  2  -999.0  -9.000  -9.000  -9.000 -999.  -999.  -99999.0  0.2235  0.52  1.00    0.00     0.0  15.0  290.4   2.0    0   0.00   73.  1005.     2 NAD-SFC NoSubs
 9  8  8 220  3    -3.9   0.101  -9.000  -9.000 -999.    77.      23.3  0.2720  0.52  1.00    1.00   327.0  15.0  289.9   2.0    0   0.00   75.  1005.     2 NAD-SFC NoSubs
 9  8  8 220  4    -8.3   0.140  -9.000  -9.000 -999.   125.      29.4  0.2930  0.52  1.00    1.50   334.0  15.0  289.4   2.0    0   0.00   77.  1005.     2 NAD-SFC NoSubs
 9  8  8 220  5    -8.0   0.137  -9.000  -9.000 -999.   122.      28.6  0.2720  0.52  1.00    1.50   322.0  15.0  288.9   2.0    0   0.00   80.  1005.     2 NAD-SFC NoSubs
 9  8  8 220  6    -7.6   0.137  -9.000  -9.000 -999.   122.      30.2  0.2720  0.52  0.62    1.50   307.0  15.0  288.5   2.0    0   0.00   81.  1005.     2 NAD-SFC NoSubs
 9  8  8 220  7    21.2   0.245   0.394   0.006  103.   291.     -61.9  0.2930  0.52  0.32    2.10   336.0  15.0  289.9   2.0    0   0.00   74.  1006.     2 NAD-SFC NoSubs
 9  8  8 220  8    68.6  -9.000  -9.000  -9.000  240.  -999.  -99999.0  0.2235  0.52  0.23    0.00     0.0  15.0  291.8   2.0    0   0.00   66.  1005.     2 NAD-SFC NoSubs
 9  8  8 220  9   110.8  -9.000  -9.000  -9.000  394.  -999.  -99999.0  0.2235  0.52  0.20    0.00     0.0  15.0  293.8   2.0    0   0.00   58.  1005.     2 NAD-SFC NoSubs
 9  8  8 220 10   144.5  -9.000  -9.000  -9.000  632.  -999.  -99999.0  0.2235  0.52  0.19    0.00     0.0  15.0  295.5   2.0    0   0.00   51.  1004.     2 NAD-SFC NoSubs
 9  8  8 220 11   168.2  -9.000  -9.000  -9.000  825.  -999.  -99999.0  0.2235  0.52  0.19    0.00     0.0  15.0  297.1   2.0    0   0.00   47.  1004.     2 NAD-SFC NoSubs
 9  8  8 220 12   180.6  -9.000  -9.000  -9.000  983.  -999.  -99999.0  0.2235  0.52  0.19    0.00     0.0  15.0  298.8   2.0    0   0.00   43.  1003.     2 NAD-SFC NoSubs
 9  8  8 220 13   181.8  -9.000  -9.000  -9.000 1060.  -999.  -99999.0  0.2235  0.52  0.19    0.00     0.0  15.0  300.1   2.0    0   0.00   38.  1002.     2 NAD-SFC NoSubs
 9  8  8 220 14   171.8  -9.000  -9.000  -9.000 1129.  -999.  -99999.0  0.2235  0.52  0.19    0.00     0.0  15.0  301.1   2.0    0   0.00   36.  1001.     2 NAD-SFC NoSubs
 9  8  8 220 15   150.3   0.181   1.708   0.008 1186.   184.      -3.5  0.2940  0.52  0.19    1.00    11.0  15.0  301.8   2.0    0   0.00   35.  1001.     2 NAD-SFC NoSubs
 9  8  8 220 16   118.6   0.285   1.599   0.008 1230.   365.     -17.4  0.2940  0.52  0.20    2.10    12.0  15.0  302.5   2.0    0   0.00   34.  1000.     2 NAD-SFC NoSubs
 9  8  8 220 17    77.7   0.319   1.398   0.008 1257.   432.     -37.3  0.2940  0.52  0.22    2.60    11.0  15.0  302.1   2.0    0   0.00   39.  1000.     2 NAD-SFC NoSubs
 9  8  8 220 18    30.8   0.298   1.031   0.008 1266.   390.     -76.3  0.2940  0.52  0.31    2.60    18.0  15.0  301.5   2.0    0   0.00   45.  1000.     2 NAD-SFC NoSubs
 9  8  8 220 19   -18.6   0.254  -9.000  -9.000 -999.   309.      78.8  0.2940  0.52  0.57    2.60    18.0  15.0  300.4   2.0    0   0.00   47.  1000.     2 NAD-SFC NoSubs
 9  8  8 220 20    -8.2   0.140  -9.000  -9.000 -999.   133.      29.9  0.2940  0.52  1.00    1.50    10.0  15.0  299.1   2.0    0   0.00   51.  1001.     2 NAD-SFC NoSubs
 9  8  8 220 21  -999.0  -9.000  -9.000  -9.000 -999.  -999.  -99999.0  0.2235  0.52  1.00    0.00     0.0  15.0  297.6   2.0    0   0.00   56.  1001.     2 NAD-SFC NoSubs
 9  8  8 220 22    -3.3   0.093  -9.000  -9.000 -999.    68.      21.7  0.1750  0.52  1.00    1.00   251.0  15.0  296.2   2.0    0   0.00   62.  1001.     2 NAD-SFC NoSubs
 9  8  8 220 23   -20.3   0.218  -9.000  -9.000 -999.   245.      45.7  0.1750  0.52  1.00    2.60   268.0  15.0  295.0   2.0    0   0.00   66.  1001.     2 NAD-SFC NoSubs
 9  8  8 220 24    -7.2   0.129  -9.000  -9.000 -999.   114.      26.6  0.2160  0.52  1.00    1.50   278.0  15.0  294.1   2.0    0   0.00   69.  1001.     2 NAD-SFC NoSubs
 9  8  9 221  1    -1.5   0.081  -9.000  -9.000 -999.    55.      31.3  0.2160  0.52  1.00    0.50   277.0  15.0  293.5   2.0    0   0.00   72.  1002.     2 NAD-SFC NoSubs
 9  8  9 221  2  -999.0  -9.000  -9.000  -9.000 -999.  -999.  -99999.0  0.2235  0.52  1.00    0.00     0.0  15.0  293.0   2.0    0   0.00   75.  1002.     2 NAD-SFC NoSubs
 9  8  9 221  3  -999.0  -9.000  -9.000  -9.000 -999.  -999.  -99999.0  0.2235  0.52  1.00    0.00     0.0  15.0  292.4   2.0    0   0.00   77.  1002.     2 NAD-SFC NoSubs
 9  8  9 221  4    -1.5   0.081  -9.000  -9.000 -999.    55.      31.4  0.2160  0.52  1.00    0.50   281.0  15.0  291.9   2.0    0   0.00   79.  1002.     2 NAD-SFC NoSubs
 9  8  9 221  5    -3.4   0.094  -9.000  -9.000 -999.    69.      21.7  0.1750  0.52  1.00    1.00   258.0  15.0  291.5   2.0    0   0.00   80.  1002.     2 NAD-SFC NoSubs
 9  8  9 221  6    -6.8   0.129  -9.000  -9.000 -999.   111.      27.8  0.2160  0.52  0.63    1.50   274.0  15.0  291.2   2.0    0   0.00   80.  1003.     2 NAD-SFC NoSubs
 9  8  9 221  7    21.6   0.187   0.354   0.007   73.   194.     -27.0  0.2720  0.52  0.32    1.50   303.0  15.0  292.8   2.0    0   0.00   72.  1003.     2 NAD-SFC NoSubs
 9  8  9 221  8    69.1   0.161   0.710   0.007  185.   155.      -5.4  0.2720  0.52  0.23    1.00   304.0  15.0  294.8   2.0    0   0.00   63.  1003.     2 NAD-SFC NoSubs
 9  8  9 221  9   111.7   0.107   1.028   0.005  348.    84.      -1.0  0.2160  0.52  0.20    0.50   283.0  15.0  297.2   2.0    0   0.00   54.  1003.     2 NAD-SFC NoSubs
 9  8  9 221 10   145.6  -9.000  -9.000  -9.000  614.  -999.  -99999.0  0.2235  0.52  0.19    0.00     0.0  15.0  299.2   2.0    0   0.00   46.  1003.     2 NAD-SFC NoSubs
 9  8  9 221 11   169.6  -9.000  -9.000  -9.000  810.  -999.  -99999.0  0.2235  0.52  0.19    0.00     0.0  15.0  301.2   2.0    0   0.00   39.  1002.     2 NAD-SFC NoSubs
 9  8  9 221 12   182.0  -9.000  -9.000  -9.000  971.  -999.  -99999.0  0.2235  0.52  0.19    0.00     0.0  15.0  302.8   2.0    0   0.00   34.  1001.     2 NAD-SFC NoSubs
 9  8  9 221 13   183.3  -9.000  -9.000  -9.000 1065.  -999.  -99999.0  0.2235  0.52  0.19    0.00     0.0  15.0  304.0   2.0    0   0.00   31.  1000.     2 NAD-SFC NoSubs
 9  8  9 221 14   173.3   0.122   1.772   0.007 1147.   102.      -1.0  0.2940  0.52  0.19    0.50    11.0  15.0  304.9   2.0    0   0.00   30.  1000.     2 NAD-SFC NoSubs
 9  8  9 221 15   151.7   0.174   1.728   0.007 1214.   175.      -3.1  0.2470  0.52  0.19    1.00    35.0  15.0  305.4   2.0    0   0.00   30.   999.     2 NAD-SFC NoSubs
 9  8  9 221 16   119.6   0.319   1.618   0.007 1264.   432.     -24.2  0.2470  0.52  0.20    2.60    34.0  15.0  305.4   2.0    0   0.00   31.   999.     2 NAD-SFC NoSubs
 9  8  9 221 17    78.4   0.307   1.417   0.006 1295.   409.     -33.0  0.2470  0.52  0.23    2.60    30.0  15.0  304.8   2.0    0   0.00   40.   998.     2 NAD-SFC NoSubs
 9  8  9 221 18    31.5   0.298   1.049   0.006 1306.   391.     -74.9  0.2940  0.52  0.31    2.60    17.0  15.0  304.2   2.0    0   0.00   44.   998.     2 NAD-SFC NoSubs
 9  8  9 221 19   -13.9   0.203  -9.000  -9.000 -999.   224.      53.7  0.2940  0.52  0.58    2.10    13.0  15.0  303.0   2.0    0   0.00   46.   999.     2 NAD-SFC NoSubs
 9  8  9 221 20    -1.5   0.080  -9.000  -9.000 -999.    67.      31.1  0.2160  0.52  1.00    0.50   287.0  15.0  301.5   2.0    0   0.00   51.   999.     2 NAD-SFC NoSubs
 9  8  9 221 21   -31.7   0.308  -9.000  -9.000 -999.   411.      82.4  0.1750  0.52  1.00    3.60   259.0  15.0  299.9   2.0    0   0.00   56.   999.     2 NAD-SFC NoSubs
 9  8  9 221 22   -38.6   0.373  -9.000  -9.000 -999.   546.     119.3  0.2160  0.52  1.00    4.10   282.0  15.0  297.2   2.0    0   0.00   64.   999.     2 NAD-SFC NoSubs
 9  8  9 221 23   -33.9   0.325  -9.000  -9.000 -999.   447.      90.6  0.2160  0.52  1.00    3.60   294.0  15.0  296.0   2.0    0   0.00   66.   999.     2 NAD-SFC NoSubs
 9  8  9 221 24    -3.9   0.100  -9.000  -9.000 -999.   150.      23.3  0.2720  0.52  1.00    1.00   318.0  15.0  295.6   2.0    0   0.00   65.  1000.     2 NAD-SFC NoSubs
 9  8 10 222  1    -4.0   0.102  -9.000  -9.000 -999.    79.      23.7  0.2940  0.52  1.00    1.00    15.0  15.0  295.2   2.0    0   0.00   65.  1000.     2 NAD-SFC NoSubs
 9  8 10 222  2    -3.7   0.099  -9.000  -9.000 -999.    74.      22.9  0.2470  0.52  1.00    1.00    52.0  15.0  295.1   2.0    0   0.00   64.  1001.     2 NAD-SFC NoSubs
 9  8 10 222  3    -1.6   0.082  -9.000  -9.000 -999.    56.      31.6  0.2470  0.52  1.00    0.50    47.0  15.0  294.5   2.0    0   0.00   66.  1001.     2 NAD-SFC NoSubs
 9  8 10 222  4  -999.0  -9.000  -9.000  -9.000 -999.  -999.  -99999.0  0.2235  0.52  1.00    0.00     0.0  15.0  293.8   2.0    0   0.00   69.  1001.     2 NAD-SFC NoSubs
 9  8 10 222  5    -1.5   0.080  -9.000  -9.000 -999.    54.      31.1  0.1950  0.52  1.00    0.50   220.0  15.0  293.2   2.0    0   0.00   71.  1001.     2 NAD-SFC NoSubs
 9  8 10 222  6    -3.2   0.093  -9.000  -9.000 -999.    68.      22.0  0.1950  0.52  0.63    1.00   228.0  15.0  292.9   2.0    0   0.00   72.  1002.     2 NAD-SFC NoSubs
 9  8 10 222  7    21.6   0.128   0.370   0.011   84.   110.      -8.7  0.1750  0.52  0.33    1.00   262.0  15.0  294.4   2.0    0   0.00   65.  1002.     2 NAD-SFC NoSubs
 9  8 10 222  8    69.3   0.100   0.734   0.008  204.    76.      -1.3  0.2160  0.52  0.23    0.50   275.0  15.0  296.5   2.0    0   0.00   59.  1002.     2 NAD-SFC NoSubs
 9  8 10 222  9   111.9   0.102   1.030   0.006  349.    78.      -1.0  0.1750  0.52  0.20    0.50   257.0  15.0  298.8   2.0    0   0.00   52.  1002.     2 NAD-SFC NoSubs
 9  8 10 222 10   145.9  -9.000  -9.000  -9.000  539.  -999.  -99999.0  0.2235  0.52  0.19    0.00     0.0  15.0  300.8   2.0    0   0.00   46.  1002.     2 NAD-SFC NoSubs
 9  8 10 222 11   169.9  -9.000  -9.000  -9.000  745.  -999.  -99999.0  0.2235  0.52  0.19    0.00     0.0  15.0  302.8   2.0    0   0.00   38.  1001.     2 NAD-SFC NoSubs
 9  8 10 222 12   182.4  -9.000  -9.000  -9.000  946.  -999.  -99999.0  0.2235  0.52  0.19    0.00     0.0  15.0  304.2   2.0    0   0.00   32.  1001.     2 NAD-SFC NoSubs
 9  8 10 222 13   183.7  -9.000  -9.000  -9.000 1048.  -999.  -99999.0  0.2235  0.52  0.19    0.00     0.0  15.0  305.5   2.0    0   0.00   29.  1000.     2 NAD-SFC NoSubs
 9  8 10 222 14   173.7   0.120   1.763   0.007 1126.    99.      -1.0  0.2720  0.52  0.19    0.50   320.0  15.0  306.4   2.0    0   0.00   27.   999.     2 NAD-SFC NoSubs
 9  8 10 222 15   152.2   0.120   1.719   0.006 1191.    99.      -1.0  0.2930  0.52  0.19    0.50   348.0  15.0  307.1   2.0    0   0.00   26.   999.     2 NAD-SFC NoSubs
 9  8 10 222 16   120.0   0.176   1.610   0.006 1239.   177.      -4.0  0.2940  0.52  0.20    1.00    23.0  15.0  307.2   2.0    0   0.00   26.   998.     2 NAD-SFC NoSubs
 9  8 10 222 17    78.8   0.209   1.411   0.006 1268.   229.     -10.3  0.2470  0.52  0.23    1.50    32.0  15.0  306.8   2.0    0   0.00   33.   998.     2 NAD-SFC NoSubs
 9  8 10 222 18    31.8   0.287   1.045   0.005 1279.   369.     -66.2  0.2470  0.52  0.31    2.60    31.0  15.0  306.1   2.0    0   0.00   39.   999.     2 NAD-SFC NoSubs
 9  8 10 222 19   -13.9   0.203  -9.000  -9.000 -999.   222.      53.6  0.2940  0.52  0.58    2.10     4.0  15.0  304.8   2.0    0   0.00   43.   999.     2 NAD-SFC NoSubs
 9  8 10 222 20   -53.6   0.525  -9.000  -9.000 -999.   914.     241.0  0.2160  0.52  1.00    5.70   293.0  15.0  302.2   2.0    0   0.00   51.  1000.     2 NAD-SFC NoSubs
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 9  8 10 222 21   -38.6  0.373 -9.000 -9.000 -999.  565.    119.7  0.2160  0.52  1.00  4.10  278.0  15.0  298.2  2.0   0  0.00  66.  1001.   2 NAD-SFC NoSubs
 9  8 10 222 22   -33.9  0.325 -9.000 -9.000 -999.  447.     90.8  0.2160  0.52  1.00  3.60  291.0  15.0  296.8  2.0   0  0.00  67.  1001.   2 NAD-SFC NoSubs
 9  8 10 222 23   -36.2  0.347 -9.000 -9.000 -999.  490.    102.9  0.2720  0.52  1.00  3.60  301.0  15.0  296.0  2.0   0  0.00  68.  1002.   2 NAD-SFC NoSubs
 9  8 10 222 24   -25.6  0.252 -9.000 -9.000 -999.  308.     55.6  0.2930  0.52  1.00  2.60  338.0  15.0  295.5  2.0   0  0.00  67.  1002.   2 NAD-SFC NoSubs
 9  8 11 223  1   -35.4  0.337 -9.000 -9.000 -999.  470.     97.1  0.2470  0.52  1.00  3.60   34.0  15.0  295.0  2.0   0  0.00  69.  1003.   2 NAD-SFC NoSubs
 9  8 11 223  2   -37.3  0.355 -9.000 -9.000 -999.  507.    107.1  0.2940  0.52  1.00  3.60   28.0  15.0  294.4  2.0   0  0.00  71.  1003.   2 NAD-SFC NoSubs
 9  8 11 223  3   -30.4  0.288 -9.000 -9.000 -999.  374.     70.7  0.2470  0.52  1.00  3.10   32.0  15.0  293.9  2.0   0  0.00  73.  1003.   2 NAD-SFC NoSubs
 9  8 11 223  4   -15.2  0.190 -9.000 -9.000 -999.  203.     40.3  0.2470  0.52  1.00  2.10   31.0  15.0  293.4  2.0   0  0.00  74.  1004.   2 NAD-SFC NoSubs
 9  8 11 223  5    -3.8  0.099 -9.000 -9.000 -999.   78.     22.9  0.2470  0.52  1.00  1.00   43.0  15.0  293.0  2.0   0  0.00  75.  1004.   2 NAD-SFC NoSubs
 9  8 11 223  6    -1.4  0.079 -9.000 -9.000 -999.   54.     30.8  0.2470  0.52  0.64  0.50   47.0  15.0  292.8  2.0   0  0.00  76.  1004.   2 NAD-SFC NoSubs
 9  8 11 223  7    21.0  0.085  0.370  0.013   86.   59.     -2.6  0.2090  0.52  0.33  0.50   65.0  15.0  294.1  2.0   0  0.00  69.  1004.   2 NAD-SFC NoSubs
 9  8 11 223  8    68.7 -9.000 -9.000 -9.000  194. -999. -99999.0  0.2235  0.52  0.23  0.00    0.0  15.0  296.2  2.0   0  0.00  61.  1004.   2 NAD-SFC NoSubs
 9  8 11 223  9   111.5 -9.000 -9.000 -9.000  326. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  298.8  2.0   0  0.00  52.  1004.   2 NAD-SFC NoSubs
 9  8 11 223 10   145.4 -9.000 -9.000 -9.000  485. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  300.4  2.0   0  0.00  47.  1004.   2 NAD-SFC NoSubs
 9  8 11 223 11   169.3 -9.000 -9.000 -9.000  656. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  302.2  2.0   0  0.00  43.  1003.   2 NAD-SFC NoSubs
 9  8 11 223 12   182.0 -9.000 -9.000 -9.000  835. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  304.1  2.0   0  0.00  38.  1003.   2 NAD-SFC NoSubs
 9  8 11 223 13   183.3 -9.000 -9.000 -9.000  981. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  305.5  2.0   0  0.00  34.  1002.   2 NAD-SFC NoSubs
 9  8 11 223 14   173.3 -9.000 -9.000 -9.000 1069. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  306.5  2.0   0  0.00  31.  1001.   2 NAD-SFC NoSubs
 9  8 11 223 15   151.6  0.119  1.691  0.007 1141.   99.     -1.0  0.2930  0.52  0.19  0.50  349.0  15.0  307.1  2.0   0  0.00  29.  1001.   2 NAD-SFC NoSubs
 9  8 11 223 16   119.4  0.227  1.586  0.006 1194.  259.     -8.7  0.2940  0.52  0.20  1.50    6.0  15.0  307.2  2.0   0  0.00  29.  1001.   2 NAD-SFC NoSubs
 9  8 11 223 17    78.0  0.273  1.388  0.006 1225.  343.    -23.3  0.2940  0.52  0.23  2.10   18.0  15.0  306.5  2.0   0  0.00  38.  1001.   2 NAD-SFC NoSubs
 9  8 11 223 18    30.8  0.344  1.022  0.006 1237.  484.   -117.9  0.2940  0.52  0.31  3.10   19.0  15.0  305.8  2.0   0  0.00  45.  1001.   2 NAD-SFC NoSubs
 9  8 11 223 19   -23.2  0.305 -9.000 -9.000 -999.  406.    109.6  0.2930  0.52  0.59  3.10  356.0  15.0  304.6  2.0   0  0.00  47.  1001.   2 NAD-SFC NoSubs
 9  8 11 223 20   -47.8  0.468 -9.000 -9.000 -999.  768.    191.1  0.2160  0.52  1.00  5.10  299.0  15.0  302.2  2.0   0  0.00  54.  1002.   2 NAD-SFC NoSubs
 9  8 11 223 21   -43.5  0.420 -9.000 -9.000 -999.  655.    152.1  0.2160  0.52  1.00  4.60  281.0  15.0  298.2  2.0   0  0.00  64.  1002.   2 NAD-SFC NoSubs
 9  8 11 223 22   -38.8  0.373 -9.000 -9.000 -999.  548.    119.1  0.2160  0.52  1.00  4.10  278.0  15.0  296.8  2.0   0  0.00  66.  1002.   2 NAD-SFC NoSubs
 9  8 11 223 23   -34.0  0.325 -9.000 -9.000 -999.  447.     90.5  0.2160  0.52  1.00  3.60  276.0  15.0  295.8  2.0   0  0.00  68.  1002.   2 NAD-SFC NoSubs
 9  8 11 223 24   -15.9  0.195 -9.000 -9.000 -999.  218.     42.1  0.2720  0.52  1.00  2.10  313.0  15.0  295.2  2.0   0  0.00  68.  1003.   2 NAD-SFC NoSubs
 9  8 12 224  1    -8.2  0.140 -9.000 -9.000 -999.  126.     29.7  0.2940  0.52  1.00  1.50   23.0  15.0  295.0  2.0   0  0.00  68.  1003.   2 NAD-SFC NoSubs
 9  8 12 224  2    -3.8  0.099 -9.000 -9.000 -999.   75.     22.9  0.2470  0.52  1.00  1.00   38.0  15.0  294.6  2.0   0  0.00  69.  1003.   2 NAD-SFC NoSubs
 9  8 12 224  3  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  294.2  2.0   0  0.00  68.  1003.   2 NAD-SFC NoSubs
 9  8 12 224  4    -1.5  0.080 -9.000 -9.000 -999.   54.     31.1  0.1950  0.52  1.00  0.50  229.0  15.0  294.0  2.0   0  0.00  68.  1003.   2 NAD-SFC NoSubs
 9  8 12 224  5  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  293.5  2.0   0  0.00  70.  1003.   2 NAD-SFC NoSubs
 9  8 12 224  6  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.65  0.00    0.0  15.0  293.0  2.0   0  0.00  73.  1004.   2 NAD-SFC NoSubs
 9  8 12 224  7    20.6 -9.000 -9.000 -9.000   86. -999. -99999.0  0.2235  0.52  0.33  0.00    0.0  15.0  294.5  2.0   0  0.00  68.  1004.   2 NAD-SFC NoSubs
 9  8 12 224  8    68.4 -9.000 -9.000 -9.000  223. -999. -99999.0  0.2235  0.52  0.23  0.00    0.0  15.0  296.5  2.0   0  0.00  65.  1004.   2 NAD-SFC NoSubs
 9  8 12 224  9   110.9 -9.000 -9.000 -9.000  413. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  298.2  2.0   0  0.00  63.  1004.   2 NAD-SFC NoSubs
 9  8 12 224 10   144.9 -9.000 -9.000 -9.000  561. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  300.0  2.0   0  0.00  59.  1003.   2 NAD-SFC NoSubs
 9  8 12 224 11   168.9 -9.000 -9.000 -9.000  708. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  302.1  2.0   0  0.00  53.  1003.   2 NAD-SFC NoSubs
 9  8 12 224 12   181.4 -9.000 -9.000 -9.000  862. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  303.6  2.0   0  0.00  48.  1002.   2 NAD-SFC NoSubs
 9  8 12 224 13   182.6 -9.000 -9.000 -9.000  988. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  305.0  2.0   0  0.00  43.  1001.   2 NAD-SFC NoSubs
 9  8 12 224 14   172.5  0.184  1.728  0.009 1070.  189.     -3.2  0.2930  0.52  0.19  1.00  339.0  15.0  306.0  2.0   0  0.00  39.  1001.   2 NAD-SFC NoSubs
 9  8 12 224 15   150.8  0.291  1.687  0.009 1137.  377.    -14.6  0.2930  0.52  0.19  2.10  356.0  15.0  306.5  2.0   0  0.00  38.  1000.   2 NAD-SFC NoSubs
 9  8 12 224 16   118.4 -9.000 -9.000 -9.000 1186. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  306.5  2.0   0  0.00  38.  1000.   2 NAD-SFC NoSubs
 9  8 12 224 17    77.0  0.319  1.379  0.009 1216.  432.    -37.5  0.2940  0.52  0.23  2.60    8.0  15.0  305.9  2.0   0  0.00  49.  1000.   2 NAD-SFC NoSubs
 9  8 12 224 18    29.8  0.343  1.008  0.009 1226.  483.   -121.3  0.2940  0.52  0.32  3.10   12.0  15.0  305.2  2.0   0  0.00  53.  1000.   2 NAD-SFC NoSubs
 9  8 12 224 19   -24.2  0.305 -9.000 -9.000 -999.  406.    105.0  0.2940  0.52  0.60  3.10    6.0  15.0  304.1  2.0   0  0.00  54.  1000.   2 NAD-SFC NoSubs
 9  8 12 224 20   -16.2  0.200 -9.000 -9.000 -999.  220.     44.0  0.2930  0.52  1.00  2.10  339.0  15.0  302.8  2.0   0  0.00  57.  1000.   2 NAD-SFC NoSubs
 9  8 12 224 21   -21.9  0.231 -9.000 -9.000 -999.  266.     49.9  0.2160  0.52  1.00  2.60  295.0  15.0  301.8  2.0   0  0.00  60.  1000.   2 NAD-SFC NoSubs
 9  8 12 224 22   -33.4  0.325 -9.000 -9.000 -999.  446.     91.9  0.2160  0.52  1.00  3.60  272.0  15.0  300.2  2.0   0  0.00  64.  1000.   2 NAD-SFC NoSubs
 9  8 12 224 23   -28.0  0.278 -9.000 -9.000 -999.  353.     68.7  0.2160  0.52  1.00  3.10  271.0  15.0  299.1  2.0   0  0.00  68.  1000.   3 NAD-SFC NoSubs
 9  8 12 224 24   -21.8  0.231 -9.000 -9.000 -999.  267.     50.4  0.2160  0.52  1.00  2.60  282.0  15.0  298.4  2.0   0  0.00  70.  1000.   3 NAD-SFC NoSubs
 9  8 13 225  1   -30.7  0.303 -9.000 -9.000 -999.  401.     81.3  0.2930  0.52  1.00  3.10  332.0  15.0  297.8  2.0   0  0.00  73.  1001.   3 NAD-SFC NoSubs
 9  8 13 225  2   -41.2  0.406 -9.000 -9.000 -999.  622.    145.3  0.2940  0.52  1.00  4.10    5.0  15.0  296.5  2.0   0  0.00  81.  1001.   3 NAD-SFC NoSubs
 9  8 13 225  3  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  295.2  2.0   0  0.00  85.  1001.   3 NAD-SFC NoSubs
 9  8 13 225  4   -25.4  0.252 -9.000 -9.000 -999.  304.     56.4  0.2940  0.52  1.00  2.60    5.0  15.0  294.8  2.0   0  0.00  86.  1001.   3 NAD-SFC NoSubs
 9  8 13 225  5   -16.3  0.200 -9.000 -9.000 -999.  216.     43.9  0.2930  0.52  1.00  2.10  359.0  15.0  294.1  2.0   0  0.00  87.  1001.   3 NAD-SFC NoSubs
 9  8 13 225  6   -15.7  0.201 -9.000 -9.000 -999.  216.     46.0  0.2940  0.52  0.65  2.10    3.0  15.0  293.8  2.0   0  0.00  88.  1002.   3 NAD-SFC NoSubs
 9  8 13 225  7    21.4  0.291  0.417  0.005  121.  377.   -102.8  0.2930  0.52  0.33  2.60  346.0  15.0  294.5  2.0   0  0.00  81.  1002.   3 NAD-SFC NoSubs
 9  8 13 225  8    68.6  0.107  0.758  0.009  227.  122.     -1.6  0.2930  0.52  0.23  0.50  336.0  15.0  296.1  2.0   0  0.00  74.  1002.   3 NAD-SFC NoSubs
 9  8 13 225  9   110.9 -9.000 -9.000 -9.000  335. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  298.2  2.0   0  0.00  66.  1002.   3 NAD-SFC NoSubs
 9  8 13 225 10   144.5 -9.000 -9.000 -9.000  497. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  300.0  2.0   0  0.00  59.  1001.   2 NAD-SFC NoSubs
 9  8 13 225 11   168.3 -9.000 -9.000 -9.000  729. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.6  2.0   0  0.00  53.  1001.   2 NAD-SFC NoSubs
 9  8 13 225 12   180.8  0.114  1.723  0.007 1011.   93.     -1.0  0.2160  0.52  0.19  0.50  276.0  15.0  303.2  2.0   0  0.00  47.  1000.   2 NAD-SFC NoSubs
 9  8 13 225 13   181.8 -9.000 -9.000 -9.000 1136. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  304.2  2.0   0  0.00  43.   999.   2 NAD-SFC NoSubs
 9  8 13 225 14   171.6  0.120  1.815  0.007 1243.   99.     -1.0  0.2720  0.52  0.19  0.50  326.0  15.0  305.2  2.0   0  0.00  41.   999.   2 NAD-SFC NoSubs
 9  8 13 225 15   149.7  0.233  1.774  0.008 1329.  270.     -7.5  0.2940  0.52  0.19  1.50    2.0  15.0  305.6  2.0   0  0.00  40.   998.   2 NAD-SFC NoSubs
 9  8 13 225 16   117.3 -9.000 -9.000 -9.000 1382. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  305.8  2.0   0  0.00  39.   998.   2 NAD-SFC NoSubs
 9  8 13 225 17    75.8  0.319  1.442  0.008 1412.  432.    -38.1  0.2940  0.52  0.23  2.60    8.0  15.0  305.0  2.0   0  0.00  50.   998.   2 NAD-SFC NoSubs
 9  8 13 225 18    28.4 -9.000 -9.000 -9.000 1422. -999. -99999.0  0.2235  0.52  0.32  0.00    0.0  15.0  304.1  2.0   0  0.00  55.   998.   2 NAD-SFC NoSubs
 9  8 13 225 19   -33.9  0.408 -9.000 -9.000 -999.  625.    178.0  0.2930  0.52  0.61  4.10  348.0  15.0  302.8  2.0   0  0.00  59.   999.   2 NAD-SFC NoSubs
 9  8 13 225 20   -40.6  0.397 -9.000 -9.000 -999.  601.    137.4  0.2720  0.52  1.00  4.10  327.0  15.0  301.2  2.0   0  0.00  63.   999.   2 NAD-SFC NoSubs
 9  8 13 225 21   -34.7  0.347 -9.000 -9.000 -999.  492.    107.2  0.2720  0.52  1.00  3.60  323.0  15.0  300.1  2.0   0  0.00  68.   999.   3 NAD-SFC NoSubs
 9  8 13 225 22   -29.8  0.297 -9.000 -9.000 -999.  389.     78.2  0.2720  0.52  1.00  3.10  320.0  15.0  299.2  2.0   0  0.00  72.   999.   3 NAD-SFC NoSubs
 9  8 13 225 23   -24.2  0.246 -9.000 -9.000 -999.  295.     55.1  0.2720  0.52  1.00  2.60  319.0  15.0  298.8  2.0   0  0.00  74.   999.   3 NAD-SFC NoSubs
 9  8 13 225 24    -7.8  0.137 -9.000 -9.000 -999.  128.     29.4  0.2720  0.52  1.00  1.50  313.0  15.0  298.1  2.0   0  0.00  76.   999.   3 NAD-SFC NoSubs
 9  8 14 226  1   -25.2  0.252 -9.000 -9.000 -999.  303.     56.6  0.2930  0.52  1.00  2.60  331.0  15.0  297.5  2.0   0  0.00  78.   999.   3 NAD-SFC NoSubs
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 9  8 14 226  2  -41.2  0.406 -9.000 -9.000 -999.  621.    145.0  0.2930  0.52  1.00  4.10  355.0  15.0  296.4  2.0  0  0.00  84.  1000.  3 NAD-SFC NoSubs
 9  8 14 226  3  -34.9  0.355 -9.000 -9.000 -999.  510.    114.6  0.2940  0.52  1.00  3.60    6.0  15.0  295.0  2.0  0  0.00  88.  1000.  4 NAD-SFC NoSubs
 9  8 14 226  4  -35.0  0.355 -9.000 -9.000 -999.  507.    114.0  0.2930  0.52  1.00  3.60  358.0  15.0  294.1  2.0  0  0.00  87.  1001.  4 NAD-SFC NoSubs
 9  8 14 226  5  -30.0  0.304 -9.000 -9.000 -999.  403.     83.3  0.2930  0.52  1.00  3.10  346.0  15.0  293.5  2.0  0  0.00  86.  1001.  4 NAD-SFC NoSubs
 9  8 14 226  6  -23.2  0.253 -9.000 -9.000 -999.  306.     62.1  0.2930  0.52  0.66  2.60  346.0  15.0  293.2  2.0  0  0.00  86.  1002.  4 NAD-SFC NoSubs
 9  8 14 226  7   21.6  0.338  0.429  0.005  130.  471.   -159.4  0.2930  0.52  0.33  3.10  350.0  15.0  294.1  2.0  0  0.00  73.  1002.  4 NAD-SFC NoSubs
 9  8 14 226  8   67.8  0.213  0.779  0.008  249.  245.    -12.7  0.2930  0.52  0.23  1.50  352.0  15.0  295.6  2.0  0  0.00  65.  1002.  4 NAD-SFC NoSubs
 9  8 14 226  9  109.1  0.112  1.033  0.005  361.   96.     -1.2  0.2720  0.52  0.20  0.50  324.0  15.0  297.2  2.0  0  0.00  60.  1002.  4 NAD-SFC NoSubs
 9  8 14 226 10  143.6 -9.000 -9.000 -9.000  564. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  298.8  2.0  0  0.00  56.  1001.  3 NAD-SFC NoSubs
 9  8 14 226 11  167.1 -9.000 -9.000 -9.000  796. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  300.2  2.0  0  0.00  53.  1001.  3 NAD-SFC NoSubs
 9  8 14 226 12  179.3  0.114  1.718  0.006 1011.   93.     -1.0  0.2160  0.52  0.19  0.50  290.0  15.0  301.4  2.0  0  0.00  50.  1000.  3 NAD-SFC NoSubs
 9  8 14 226 13  180.2  0.182  1.813  0.007 1181.  186.     -3.0  0.2720  0.52  0.19  1.00  328.0  15.0  302.4  2.0  0  0.00  46.   999.  3 NAD-SFC NoSubs
 9  8 14 226 14  169.9  0.295  1.846  0.008 1321.  385.    -13.5  0.2930  0.52  0.19  2.10  348.0  15.0  303.1  2.0  0  0.00  42.   999.  3 NAD-SFC NoSubs
 9  8 14 226 15  148.1  0.430  1.793  0.008 1390.  677.    -47.9  0.2930  0.52  0.19  3.60  352.0  15.0  303.4  2.0  0  0.00  41.   999.  3 NAD-SFC NoSubs
 9  8 14 226 16  115.7  0.514  1.669  0.008 1435.  884.   -104.6  0.2930  0.52  0.20  4.60  357.0  15.0  303.0  2.0  0  0.00  42.   999.  3 NAD-SFC NoSubs
 9  8 14 226 17   74.4  0.409  1.450  0.008 1462.  638.    -82.2  0.2930  0.52  0.23  3.60  357.0  15.0  302.2  2.0  0  0.00  51.   999.  3 NAD-SFC NoSubs
 9  8 14 226 18   27.3  0.389  1.041  0.008 1471.  582.   -191.4  0.2930  0.52  0.32  3.60  355.0  15.0  301.0  2.0  0  0.00  56.   999.  3 NAD-SFC NoSubs
 9  8 14 226 19  -34.3  0.408 -9.000 -9.000 -999.  624.    175.7  0.2930  0.52  0.62  4.10  336.0  15.0  299.5  2.0  0  0.00  58.   999.  3 NAD-SFC NoSubs
 9  8 14 226 20  -40.9  0.406 -9.000 -9.000 -999.  621.    145.8  0.2930  0.52  1.00  4.10  332.0  15.0  298.0  2.0  0  0.00  62.   999.  3 NAD-SFC NoSubs
 9  8 14 226 21  -35.2  0.347 -9.000 -9.000 -999.  493.    106.0  0.2720  0.52  1.00  3.60  323.0  15.0  296.8  2.0  0  0.00  65.  1000.  3 NAD-SFC NoSubs
 9  8 14 226 22  -33.0  0.326 -9.000 -9.000 -999.  446.     93.1  0.2160  0.52  1.00  3.60  298.0  15.0  296.1  2.0  0  0.00  67.  1000.  3 NAD-SFC NoSubs
 9  8 14 226 23  -33.1  0.325 -9.000 -9.000 -999.  446.     92.8  0.2160  0.52  1.00  3.60  293.0  15.0  295.2  2.0  0  0.00  69.  1000.  3 NAD-SFC NoSubs
 9  8 14 226 24  -35.4  0.347 -9.000 -9.000 -999.  490.    105.1  0.2720  0.52  1.00  3.60  305.0  15.0  294.4  2.0  0  0.00  71.  1000.  3 NAD-SFC NoSubs
 9  8 15 227  1  -35.5  0.347 -9.000 -9.000 -999.  490.    104.8  0.2720  0.52  1.00  3.60  317.0  15.0  293.5  2.0  0  0.00  73.  1000.  3 NAD-SFC NoSubs
 9  8 15 227  2  -31.2  0.303 -9.000 -9.000 -999.  402.     79.8  0.2930  0.52  1.00  3.10  337.0  15.0  292.5  2.0  0  0.00  77.  1000.  3 NAD-SFC NoSubs
 9  8 15 227  3  -25.4  0.252 -9.000 -9.000 -999.  304.     56.0  0.2930  0.52  1.00  2.60  356.0  15.0  291.9  2.0  0  0.00  79.  1000.  3 NAD-SFC NoSubs
 9  8 15 227  4   -8.2  0.140 -9.000 -9.000 -999.  132.     29.9  0.2940  0.52  1.00  1.50   15.0  15.0  291.4  2.0  0  0.00  81.  1001.  3 NAD-SFC NoSubs
 9  8 15 227  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  291.0  2.0  0  0.00  81.  1001.  3 NAD-SFC NoSubs
 9  8 15 227  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.67  0.00    0.0  15.0  290.8  2.0  0  0.00  81.  1002.  3 NAD-SFC NoSubs
 9  8 15 227  7   19.5  0.139  0.444  0.009  160.  124.    -12.3  0.2720  0.52  0.34  1.00  327.0  15.0  291.8  2.0  0  0.00  73.  1002.  3 NAD-SFC NoSubs
 9  8 15 227  8   66.6 -9.000 -9.000 -9.000  279. -999. -99999.0  0.2235  0.52  0.23  0.00    0.0  15.0  293.2  2.0  0  0.00  66.  1002.  3 NAD-SFC NoSubs
 9  8 15 227  9  108.7 -9.000 -9.000 -9.000  382. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  294.8  2.0  0  0.00  60.  1002.  3 NAD-SFC NoSubs
 9  8 15 227 10  142.1 -9.000 -9.000 -9.000  558. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  296.2  2.0  0  0.00  54.  1002.  2 NAD-SFC NoSubs
 9  8 15 227 11  165.9  0.113  1.510  0.005  743.   91.     -1.0  0.2160  0.52  0.19  0.50  285.0  15.0  298.0  2.0  0  0.00  48.  1001.  2 NAD-SFC NoSubs
 9  8 15 227 12  178.1  0.120  1.669  0.005  933.  100.     -1.0  0.2720  0.52  0.19  0.50  303.0  15.0  299.4  2.0  0  0.00  44.  1000.  2 NAD-SFC NoSubs
 9  8 15 227 13  179.0  0.122  1.789  0.007 1142.  103.     -1.0  0.2930  0.52  0.19  0.50  343.0  15.0  300.5  2.0  0  0.00  42.  1000.  2 NAD-SFC NoSubs
 9  8 15 227 14  168.5  0.183  1.842  0.009 1323.  188.     -3.3  0.2940  0.52  0.19  1.00    7.0  15.0  301.2  2.0  0  0.00  40.   999.  2 NAD-SFC NoSubs
 9  8 15 227 15  146.5  0.291  1.785  0.009 1386.  376.    -14.9  0.2940  0.52  0.19  2.10   15.0  15.0  301.6  2.0  0  0.00  39.   999.  2 NAD-SFC NoSubs
 9  8 15 227 16  113.9  0.330  1.657  0.010 1425.  455.    -28.1  0.2940  0.52  0.20  2.60   12.0  15.0  301.8  2.0  0  0.00  39.   999.  2 NAD-SFC NoSubs
 9  8 15 227 17   72.4  0.318  1.433  0.010 1449.  430.    -39.4  0.2940  0.52  0.23  2.60    6.0  15.0  301.4  2.0  0  0.00  42.   999.  2 NAD-SFC NoSubs
 9  8 15 227 18   25.2  0.294  1.010  0.010 1457.  383.    -89.7  0.2940  0.52  0.32  2.60   12.0  15.0  301.0  2.0  0  0.00  47.   999.  2 NAD-SFC NoSubs
 9  8 15 227 19   10.6 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.63  0.00    0.0  15.0  300.0  2.0  0  0.00  48.   999.  2 NAD-SFC NoSubs
 9  8 15 227 20   -3.9  0.102 -9.000 -9.000 -999.   78.     23.7  0.2930  0.52  1.00  1.00  354.0  15.0  298.8  2.0  0  0.00  51.   999.  2 NAD-SFC NoSubs
 9  8 15 227 21   -1.4  0.078 -9.000 -9.000 -999.   53.     30.7  0.1750  0.52  1.00  0.50  246.0  15.0  297.2  2.0  0  0.00  57.  1000.  2 NAD-SFC NoSubs
 9  8 15 227 22   -6.6  0.122 -9.000 -9.000 -999.  103.     24.9  0.1750  0.52  1.00  1.50  244.0  15.0  296.0  2.0  0  0.00  62.  1000.  2 NAD-SFC NoSubs
 9  8 15 227 23   -3.3  0.093 -9.000 -9.000 -999.   68.     21.7  0.1750  0.52  1.00  1.00  242.0  15.0  295.2  2.0  0  0.00  63.  1000.  2 NAD-SFC NoSubs
 9  8 15 227 24   -3.6  0.096 -9.000 -9.000 -999.   72.     22.4  0.2130  0.52  1.00  1.00   98.0  15.0  294.2  2.0  0  0.00  67.  1000.  2 NAD-SFC NoSubs
 9  8 16 228  1   -7.1  0.128 -9.000 -9.000 -999.  110.     26.4  0.2130  0.52  1.00  1.50  106.0  15.0  293.2  2.0  0  0.00  71.  1000.  2 NAD-SFC NoSubs
 9  8 16 228  2   -3.9  0.101 -9.000 -9.000 -999.   77.     23.3  0.2720  0.52  1.00  1.00  329.0  15.0  292.6  2.0  0  0.00  73.  1000.  2 NAD-SFC NoSubs
 9  8 16 228  3  -15.9  0.195 -9.000 -9.000 -999.  207.     41.8  0.2720  0.52  1.00  2.10  312.0  15.0  292.0  2.0  0  0.00  73.  1000.  2 NAD-SFC NoSubs
 9  8 16 228  4  -24.8  0.246 -9.000 -9.000 -999.  293.     53.5  0.2720  0.52  1.00  2.60  302.0  15.0  291.2  2.0  0  0.00  74.  1001.  2 NAD-SFC NoSubs
 9  8 16 228  5  -29.5  0.278 -9.000 -9.000 -999.  352.     64.9  0.2160  0.52  1.00  3.10  299.0  15.0  290.6  2.0  0  0.00  76.  1001.  2 NAD-SFC NoSubs
 9  8 16 228  6  -22.0  0.231 -9.000 -9.000 -999.  267.     50.0  0.2160  0.52  0.67  2.60  296.0  15.0  290.0  2.0  0  0.00  76.  1002.  2 NAD-SFC NoSubs
 9  8 16 228  7   17.5  0.375  0.370  0.006  103.  552.   -270.0  0.2720  0.52  0.34  3.60  329.0  15.0  291.2  2.0  0  0.00  66.  1002.  2 NAD-SFC NoSubs
 9  8 16 228  8   65.2  0.264  0.730  0.007  213.  332.    -25.1  0.2720  0.52  0.23  2.10  328.0  15.0  293.0  2.0  0  0.00  55.  1002.  2 NAD-SFC NoSubs
 9  8 16 228  9  107.9  0.112  1.023  0.007  355.  111.     -1.2  0.2720  0.52  0.20  0.50  310.0  15.0  295.0  2.0  0  0.00  46.  1002.  2 NAD-SFC NoSubs
 9  8 16 228 10  141.9 -9.000 -9.000 -9.000  530. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  296.8  2.0  0  0.00  43.  1001.  2 NAD-SFC NoSubs
 9  8 16 228 11  165.5  0.113  1.487  0.008  710.   91.     -1.0  0.2160  0.52  0.19  0.50  292.0  15.0  298.2  2.0  0  0.00  40.  1000.  2 NAD-SFC NoSubs
 9  8 16 228 12  177.9  0.120  1.653  0.010  906.  100.     -1.0  0.2720  0.52  0.19  0.50  302.0  15.0  299.8  2.0  0  0.00  38.   999.  2 NAD-SFC NoSubs
 9  8 16 228 13  178.9 -9.000 -9.000 -9.000 1016. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.1  2.0  0  0.00  37.   999.  2 NAD-SFC NoSubs
 9  8 16 228 14  168.5  0.119  1.722  0.009 1080.   99.     -1.0  0.2720  0.52  0.19  0.50  326.0  15.0  302.1  2.0  0  0.00  35.   998.  2 NAD-SFC NoSubs
 9  8 16 228 15  146.4  0.180  1.670  0.009 1133.  184.     -3.6  0.2930  0.52  0.19  1.00  354.0  15.0  302.8  2.0  0  0.00  34.   998.  2 NAD-SFC NoSubs
 9  8 16 228 16  113.9  0.284  1.554  0.009 1173.  363.    -17.9  0.2940  0.52  0.20  2.10    5.0  15.0  302.9  2.0  0  0.00  34.   997.  2 NAD-SFC NoSubs
 9  8 16 228 17   72.2  0.271  1.344  0.009 1196.  339.    -24.6  0.2940  0.52  0.23  2.10   13.0  15.0  302.5  2.0  0  0.00  40.   997.  2 NAD-SFC NoSubs
 9  8 16 228 18   24.9  0.294  0.944  0.009 1204.  382.    -90.6  0.2940  0.52  0.33  2.60    7.0  15.0  302.0  2.0  0  0.00  44.   997.  2 NAD-SFC NoSubs
 9  8 16 228 19  -23.0  0.253 -9.000 -9.000 -999.  306.     62.5  0.2940  0.52  0.64  2.60   15.0  15.0  300.8  2.0  0  0.00  47.   998.  2 NAD-SFC NoSubs
 9  8 16 228 20   -8.1  0.140 -9.000 -9.000 -999.  132.     29.9  0.2930  0.52  1.00  1.50  352.0  15.0  299.2  2.0  0  0.00  50.   998.  2 NAD-SFC NoSubs
 9  8 16 228 21  -20.2  0.218 -9.000 -9.000 -999.  245.     45.9  0.1750  0.52  1.00  2.60  269.0  15.0  297.8  2.0  0  0.00  55.   998.  2 NAD-SFC NoSubs
 9  8 16 228 22  -38.8  0.373 -9.000 -9.000 -999.  546.    118.6  0.2160  0.52  1.00  4.10  282.0  15.0  295.5  2.0  0  0.00  63.   999.  2 NAD-SFC NoSubs
 9  8 16 228 23  -29.1  0.278 -9.000 -9.000 -999.  357.     65.7  0.2160  0.52  1.00  3.10  284.0  15.0  294.2  2.0  0  0.00  67.   999.  2 NAD-SFC NoSubs
 9  8 16 228 24  -20.3  0.218 -9.000 -9.000 -999.  246.     45.5  0.1750  0.52  1.00  2.60  267.0  15.0  293.6  2.0  0  0.00  67.   999.  2 NAD-SFC NoSubs
 9  8 17 229  1   -1.4  0.079 -9.000 -9.000 -999.   72.     30.9  0.1750  0.52  1.00  0.50  248.0  15.0  293.2  2.0  0  0.00  68.   999.  2 NAD-SFC NoSubs
 9  8 17 229  2   -1.4  0.079 -9.000 -9.000 -999.   53.     30.9  0.1750  0.52  1.00  0.50  243.0  15.0  292.8  2.0  0  0.00  69.   999.  2 NAD-SFC NoSubs
 9  8 17 229  3   -1.4  0.079 -9.000 -9.000 -999.   53.     30.9  0.1750  0.52  1.00  0.50  260.0  15.0  292.0  2.0  0  0.00  72.   999.  2 NAD-SFC NoSubs
 9  8 17 229  4   -3.6  0.097 -9.000 -9.000 -999.   72.     22.4  0.2160  0.52  1.00  1.00  286.0  15.0  291.2  2.0  0  0.00  76.   999.  2 NAD-SFC NoSubs
 9  8 17 229  5   -7.2  0.129 -9.000 -9.000 -999.  111.     26.5  0.2160  0.52  1.00  1.50  298.0  15.0  290.8  2.0  0  0.00  78.  1000.  2 NAD-SFC NoSubs
 9  8 17 229  6   -7.8  0.137 -9.000 -9.000 -999.  121.     29.2  0.2720  0.52  0.68  1.50  307.0  15.0  290.4  2.0  0  0.00  79.  1001.  2 NAD-SFC NoSubs
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 9  8 17 229  7   17.1  0.241  0.338  0.008   80.  284.    -73.2  0.2930  0.52  0.34   2.10  344.0  15.0  291.5  2.0   0  0.00   76.  1001.    2 NAD-SFC NoSubs
 9  8 17 229  8   64.8  0.160  0.706  0.009  194.  156.     -5.6  0.2720  0.52  0.23   1.00  329.0  15.0  293.2  2.0   0  0.00   68.  1001.    2 NAD-SFC NoSubs
 9  8 17 229  9  107.7 -9.000 -9.000 -9.000  315. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  295.8  2.0   0  0.00   57.  1001.    2 NAD-SFC NoSubs
 9  8 17 229 10  141.9 -9.000 -9.000 -9.000  499. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  297.8  2.0   0  0.00   50.  1001.    2 NAD-SFC NoSubs
 9  8 17 229 11  165.8 -9.000 -9.000 -9.000  715. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  299.8  2.0   0  0.00   44.  1000.    2 NAD-SFC NoSubs
 9  8 17 229 12  178.2 -9.000 -9.000 -9.000  842. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  301.5  2.0   0  0.00   38.   999.    2 NAD-SFC NoSubs
 9  8 17 229 13  179.3 -9.000 -9.000 -9.000  954. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  303.0  2.0   0  0.00   35.   998.    2 NAD-SFC NoSubs
 9  8 17 229 14  168.9  0.121  1.700  0.010 1036.  101.     -1.0  0.2930  0.52  0.19   0.50  339.0  15.0  304.0  2.0   0  0.00   33.   997.    2 NAD-SFC NoSubs
 9  8 17 229 15  146.7  0.180  1.654  0.010 1098.  184.     -3.6  0.2940  0.52  0.19   1.00    5.0  15.0  304.5  2.0   0  0.00   32.   997.    2 NAD-SFC NoSubs
 9  8 17 229 16  114.1 -9.000 -9.000 -9.000 1145. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  304.8  2.0   0  0.00   32.   996.    2 NAD-SFC NoSubs
 9  8 17 229 17   72.2 -9.000 -9.000 -9.000 1173. -999. -99999.0  0.2235  0.52  0.23   0.00    0.0  15.0  304.2  2.0   0  0.00   39.   996.    2 NAD-SFC NoSubs
 9  8 17 229 18   24.8  0.294  0.937  0.010 1180.  382.    -90.9  0.2940  0.52  0.33   2.60   12.0  15.0  303.5  2.0   0  0.00   43.   997.    2 NAD-SFC NoSubs
 9  8 17 229 19  -28.0  0.304 -9.000 -9.000 -999.  403.     89.5  0.2940  0.52  0.65   3.10    8.0  15.0  302.1  2.0   0  0.00   47.   997.    2 NAD-SFC NoSubs
 9  8 17 229 20  -16.2  0.200 -9.000 -9.000 -999.  220.     43.8  0.2930  0.52  1.00   2.10  341.0  15.0  300.8  2.0   0  0.00   50.   997.    2 NAD-SFC NoSubs
 9  8 17 229 21  -43.3  0.420 -9.000 -9.000 -999.  653.    152.2  0.2160  0.52  1.00   4.60  279.0  15.0  298.5  2.0   0  0.00   58.   997.    2 NAD-SFC NoSubs
 9  8 17 229 22  -38.8  0.373 -9.000 -9.000 -999.  547.    118.5  0.2160  0.52  1.00   4.10  292.0  15.0  295.4  2.0   0  0.00   73.   998.    2 NAD-SFC NoSubs
 9  8 17 229 23  -29.1  0.278 -9.000 -9.000 -999.  357.     65.8  0.2160  0.52  1.00   3.10  297.0  15.0  294.5  2.0   0  0.00   76.   998.    2 NAD-SFC NoSubs
 9  8 17 229 24  -14.2  0.183 -9.000 -9.000 -999.  192.     38.4  0.2160  0.52  1.00   2.10  287.0  15.0  294.2  2.0   0  0.00   74.   998.    2 NAD-SFC NoSubs
 9  8 18 230  1   -6.9  0.126 -9.000 -9.000 -999.  108.     25.7  0.1950  0.52  1.00   1.50  238.0  15.0  294.0  2.0   0  0.00   74.   998.    2 NAD-SFC NoSubs
 9  8 18 230  2   -6.9  0.126 -9.000 -9.000 -999.  107.     25.7  0.1950  0.52  1.00   1.50  235.0  15.0  293.8  2.0   0  0.00   75.   999.    2 NAD-SFC NoSubs
 9  8 18 230  3  -13.0  0.173 -9.000 -9.000 -999.  173.     35.5  0.1750  0.52  1.00   2.10  264.0  15.0  293.4  2.0   0  0.00   77.   999.    2 NAD-SFC NoSubs
 9  8 18 230  4   -6.6  0.122 -9.000 -9.000 -999.  103.     24.8  0.1750  0.52  1.00   1.50  268.0  15.0  292.9  2.0   0  0.00   79.   999.    2 NAD-SFC NoSubs
 9  8 18 230  5   -7.2  0.129 -9.000 -9.000 -999.  111.     26.5  0.2160  0.52  1.00   1.50  291.0  15.0  292.4  2.0   0  0.00   80.  1000.    2 NAD-SFC NoSubs
 9  8 18 230  6   -1.6  0.082 -9.000 -9.000 -999.   57.     31.5  0.2720  0.52  0.69   0.50  310.0  15.0  292.0  2.0   0  0.00   82.  1000.    2 NAD-SFC NoSubs
 9  8 18 230  7   16.9  0.186  0.367  0.011  103.  192.    -33.8  0.2930  0.52  0.34   1.50  342.0  15.0  292.8  2.0   0  0.00   77.  1000.    2 NAD-SFC NoSubs
 9  8 18 230  8   64.8  0.160  0.720  0.011  206.  154.     -5.6  0.2720  0.52  0.24   1.00  324.0  15.0  294.6  2.0   0  0.00   67.  1000.    2 NAD-SFC NoSubs
 9  8 18 230  9  107.8  0.106  0.983  0.009  315.   84.     -1.0  0.2160  0.52  0.20   0.50  274.0  15.0  297.0  2.0   0  0.00   57.  1000.    2 NAD-SFC NoSubs
 9  8 18 230 10  142.0  0.110  1.213  0.007  449.   88.     -1.0  0.2160  0.52  0.19   0.50  273.0  15.0  299.1  2.0   0  0.00   48.  1000.    2 NAD-SFC NoSubs
 9  8 18 230 11  166.0 -9.000 -9.000 -9.000  635. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  301.1  2.0   0  0.00   42.   999.    2 NAD-SFC NoSubs
 9  8 18 230 12  178.6 -9.000 -9.000 -9.000  787. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  303.1  2.0   0  0.00   35.   999.    2 NAD-SFC NoSubs
 9  8 18 230 13  179.6 -9.000 -9.000 -9.000  916. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  304.6  2.0   0  0.00   32.   998.    2 NAD-SFC NoSubs
 9  8 18 230 14  169.2 -9.000 -9.000 -9.000 1019. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  305.6  2.0   0  0.00   30.   997.    2 NAD-SFC NoSubs
 9  8 18 230 15  147.1  0.180  1.654  0.009 1096.  184.     -3.6  0.2940  0.52  0.19   1.00   21.0  15.0  306.2  2.0   0  0.00   30.   997.    2 NAD-SFC NoSubs
 9  8 18 230 16  114.3  0.284  1.547  0.009 1153.  363.    -17.8  0.2940  0.52  0.20   2.10   21.0  15.0  306.4  2.0   0  0.00   29.   996.    2 NAD-SFC NoSubs
 9  8 18 230 17   72.1  0.318  1.339  0.009 1185.  429.    -39.4  0.2940  0.52  0.23   2.60   24.0  15.0  305.5  2.0   0  0.00   40.   996.    2 NAD-SFC NoSubs
 9  8 18 230 18   24.4  0.372  0.937  0.009 1194.  544.   -187.1  0.2470  0.52  0.33   3.60   33.0  15.0  304.5  2.0   0  0.00   45.   996.    2 NAD-SFC NoSubs
 9  8 18 230 19  -28.2  0.304 -9.000 -9.000 -999.  405.     88.4  0.2930  0.52  0.66   3.10  358.0  15.0  303.4  2.0   0  0.00   46.   997.    2 NAD-SFC NoSubs
 9  8 18 230 20  -47.8  0.468 -9.000 -9.000 -999.  768.    190.3  0.2160  0.52  1.00   5.10  295.0  15.0  300.9  2.0   0  0.00   54.   997.    2 NAD-SFC NoSubs
 9  8 18 230 21  -43.5  0.420 -9.000 -9.000 -999.  655.    151.5  0.2160  0.52  1.00   4.60  280.0  15.0  297.2  2.0   0  0.00   70.   997.    2 NAD-SFC NoSubs
 9  8 18 230 22  -38.7  0.373 -9.000 -9.000 -999.  548.    118.8  0.2160  0.52  1.00   4.10  285.0  15.0  296.0  2.0   0  0.00   72.   998.    2 NAD-SFC NoSubs
 9  8 18 230 23  -34.0  0.325 -9.000 -9.000 -999.  447.     90.2  0.2160  0.52  1.00   3.60  293.0  15.0  294.9  2.0   0  0.00   74.   998.    2 NAD-SFC NoSubs
 9  8 18 230 24  -25.6  0.252 -9.000 -9.000 -999.  305.     55.4  0.2930  0.52  1.00   2.60  334.0  15.0  294.2  2.0   0  0.00   76.   998.    2 NAD-SFC NoSubs
 9  8 19 231  1  -25.6  0.252 -9.000 -9.000 -999.  303.     55.4  0.2930  0.52  1.00   2.60  360.0  15.0  293.8  2.0   0  0.00   76.   998.    2 NAD-SFC NoSubs
 9  8 19 231  2  -16.4  0.200 -9.000 -9.000 -999.  215.     43.2  0.2930  0.52  1.00   2.10  331.0  15.0  293.5  2.0   0  0.00   75.   998.    2 NAD-SFC NoSubs
 9  8 19 231  3  -15.8  0.195 -9.000 -9.000 -999.  207.     41.9  0.2720  0.52  1.00   2.10  305.0  15.0  293.2  2.0   0  0.00   73.   998.    2 NAD-SFC NoSubs
 9  8 19 231  4  -15.8  0.195 -9.000 -9.000 -999.  207.     41.9  0.2720  0.52  1.00   2.10  301.0  15.0  293.0  2.0   0  0.00   73.   998.    2 NAD-SFC NoSubs
 9  8 19 231  5   -7.9  0.137 -9.000 -9.000 -999.  122.     28.8  0.2720  0.52  1.00   1.50  310.0  15.0  292.8  2.0   0  0.00   72.   999.    2 NAD-SFC NoSubs
 9  8 19 231  6   -3.8  0.100 -9.000 -9.000 -999.   76.     23.3  0.2720  0.52  0.70   1.00  322.0  15.0  292.4  2.0   0  0.00   73.   999.    2 NAD-SFC NoSubs
 9  8 19 231  7   16.7  0.186  0.328  0.008   75.  192.    -34.2  0.2930  0.52  0.34   1.50  341.0  15.0  293.6  2.0   0  0.00   69.  1000.    2 NAD-SFC NoSubs
 9  8 19 231  8   64.5  0.163  0.724  0.008  209.  157.     -5.9  0.2930  0.52  0.24   1.00  345.0  15.0  295.2  2.0   0  0.00   61.  1000.    2 NAD-SFC NoSubs
 9  8 19 231  9  107.3 -9.000 -9.000 -9.000  394. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  297.0  2.0   0  0.00   55.   999.    2 NAD-SFC NoSubs
 9  8 19 231 10  141.4 -9.000 -9.000 -9.000  562. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  298.8  2.0   0  0.00   50.   999.    2 NAD-SFC NoSubs
 9  8 19 231 11  165.3 -9.000 -9.000 -9.000  698. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  300.8  2.0   0  0.00   44.   999.    2 NAD-SFC NoSubs
 9  8 19 231 12  177.9 -9.000 -9.000 -9.000  801. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  302.8  2.0   0  0.00   38.   998.    2 NAD-SFC NoSubs
 9  8 19 231 13  179.0 -9.000 -9.000 -9.000  894. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  304.4  2.0   0  0.00   34.   997.    2 NAD-SFC NoSubs
 9  8 19 231 14  168.6 -9.000 -9.000 -9.000  973. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  305.6  2.0   0  0.00   32.   996.    2 NAD-SFC NoSubs
 9  8 19 231 15  146.4  0.119  1.628  0.009 1048.   99.     -1.0  0.2940  0.52  0.19   0.50   22.0  15.0  306.2  2.0   0  0.00   31.   996.    2 NAD-SFC NoSubs
 9  8 19 231 16  113.6  0.226  1.522  0.009 1104.  257.     -9.0  0.2940  0.52  0.20   1.50   23.0  15.0  306.5  2.0   0  0.00   32.   995.    2 NAD-SFC NoSubs
 9  8 19 231 17   71.6  0.271  1.318  0.009 1135.  338.    -24.6  0.2940  0.52  0.23   2.10   18.0  15.0  306.0  2.0   0  0.00   40.   995.    2 NAD-SFC NoSubs
 9  8 19 231 18   24.1  0.340  0.919  0.009 1145.  475.   -144.5  0.2930  0.52  0.34   3.10  349.0  15.0  305.5  2.0   0  0.00   43.   996.    2 NAD-SFC NoSubs
 9  8 19 231 19  -47.6  0.499 -9.000 -9.000 -999.  846.    232.5  0.2720  0.52  0.67   5.10  305.0  15.0  302.2  2.0   0  0.00   53.   997.    2 NAD-SFC NoSubs
 9  8 19 231 20  -43.3  0.420 -9.000 -9.000 -999.  659.    152.0  0.2160  0.52  1.00   4.60  277.0  15.0  298.0  2.0   0  0.00   64.   997.    2 NAD-SFC NoSubs
 9  8 19 231 21  -43.7  0.420 -9.000 -9.000 -999.  653.    150.7  0.2160  0.52  1.00   4.60  283.0  15.0  295.8  2.0   0  0.00   66.   998.    2 NAD-SFC NoSubs
 9  8 19 231 22  -34.0  0.325 -9.000 -9.000 -999.  451.     90.1  0.2160  0.52  1.00   3.60  289.0  15.0  294.6  2.0   0  0.00   69.   998.    2 NAD-SFC NoSubs
 9  8 19 231 23  -31.1  0.296 -9.000 -9.000 -999.  388.     74.6  0.2720  0.52  1.00   3.10  316.0  15.0  293.8  2.0   0  0.00   71.   999.    2 NAD-SFC NoSubs
 9  8 19 231 24  -31.8  0.303 -9.000 -9.000 -999.  400.     77.8  0.2930  0.52  1.00   3.10  352.0  15.0  293.2  2.0   0  0.00   72.   999.    2 NAD-SFC NoSubs
 9  8 20 232  1  -37.3  0.354 -9.000 -9.000 -999.  506.    106.2  0.2930  0.52  1.00   3.60  359.0  15.0  292.6  2.0   0  0.00   73.   999.    2 NAD-SFC NoSubs
 9  8 20 232  2  -37.4  0.355 -9.000 -9.000 -999.  507.    106.2  0.2940  0.52  1.00   3.60    4.0  15.0  292.0  2.0   0  0.00   75.   999.    2 NAD-SFC NoSubs
 9  8 20 232  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  291.5  2.0   0  0.00   76.   999.    2 NAD-SFC NoSubs
 9  8 20 232  4  -32.1  0.303 -9.000 -9.000 -999.  401.     77.4  0.2940  0.52  1.00   3.10    7.0  15.0  291.1  2.0   0  0.00   76.  1000.    2 NAD-SFC NoSubs
 9  8 20 232  5  -23.7  0.239 -9.000 -9.000 -999.  282.     51.4  0.2470  0.52  1.00   2.60   31.0  15.0  290.8  2.0   0  0.00   77.  1000.    2 NAD-SFC NoSubs
 9  8 20 232  6  -23.5  0.239 -9.000 -9.000 -999.  281.     52.0  0.2470  0.52  0.70   2.60   38.0  15.0  290.6  2.0   0  0.00   77.  1000.    2 NAD-SFC NoSubs
 9  8 20 232  7   15.7  0.138  0.330  0.014   81.  128.    -15.0  0.2940  0.52  0.35   1.00   26.0  15.0  292.1  2.0   0  0.00   68.  1001.    2 NAD-SFC NoSubs
 9  8 20 232  8   63.6 -9.000 -9.000 -9.000  180. -999. -99999.0  0.2235  0.52  0.24   0.00    0.0  15.0  294.0  2.0   0  0.00   62.  1001.    2 NAD-SFC NoSubs
 9  8 20 232  9  106.6 -9.000 -9.000 -9.000  298. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  296.2  2.0   0  0.00   56.  1001.    2 NAD-SFC NoSubs
 9  8 20 232 10  140.8 -9.000 -9.000 -9.000  421. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  298.2  2.0   0  0.00   51.  1000.    2 NAD-SFC NoSubs
 9  8 20 232 11  164.6 -9.000 -9.000 -9.000  569. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  300.1  2.0   0  0.00   48.  1000.    2 NAD-SFC NoSubs
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 9  8 20 232 12  177.1 -9.000 -9.000 -9.000  696. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 302.1  2.0    0  0.00  43.   999.    2 NAD-SFC NoSubs
 9  8 20 232 13  178.2  0.120  1.591  0.011  806.  100.     -1.0 0.2720  0.52  0.19  0.50  319.0  15.0 303.8  2.0    0  0.00  38.   998.    2 NAD-SFC NoSubs
 9  8 20 232 14  167.7  0.121  1.616  0.010  898.  101.     -1.0 0.2930  0.52  0.19  0.50  336.0  15.0 305.0  2.0    0  0.00  35.   998.    2 NAD-SFC NoSubs
 9  8 20 232 15  145.5 -9.000 -9.000 -9.000  971. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 305.8  2.0    0  0.00  33.   997.    2 NAD-SFC NoSubs
 9  8 20 232 16  112.6  0.330  1.476  0.010 1017.  454.    -28.3 0.2940  0.52  0.20  2.60    8.0  15.0 306.0  2.0    0  0.00  34.   997.    2 NAD-SFC NoSubs
 9  8 20 232 17   70.3  0.317  1.272  0.010 1043.  428.    -40.2 0.2940  0.52  0.23  2.60   22.0  15.0 305.2  2.0    0  0.00  44.   997.    2 NAD-SFC NoSubs
 9  8 20 232 18   22.7  0.386  0.875  0.010 1050.  575.   -225.4 0.2930  0.52  0.34  3.60  357.0  15.0 304.5  2.0    0  0.00  48.   998.    2 NAD-SFC NoSubs
 9  8 20 232 19  -48.5  0.499 -9.000 -9.000 -999.  846.    228.0 0.2720  0.52  0.68  5.10  307.0  15.0 301.6  2.0    0  0.00  53.   998.    2 NAD-SFC NoSubs
 9  8 20 232 20  -54.4  0.525 -9.000 -9.000 -999.  912.    236.8 0.2160  0.52  1.00  5.70  279.0  15.0 297.2  2.0    0  0.00  60.   999.    2 NAD-SFC NoSubs
 9  8 20 232 21  -48.8  0.468 -9.000 -9.000 -999.  771.    186.5 0.2160  0.52  1.00  5.10  286.0  15.0 295.2  2.0    0  0.00  64.   999.    2 NAD-SFC NoSubs
 9  8 20 232 22  -39.1  0.372 -9.000 -9.000 -999.  553.    117.9 0.2160  0.52  1.00  4.10  295.0  15.0 294.0  2.0    0  0.00  66.  1000.    2 NAD-SFC NoSubs
 9  8 20 232 23  -36.5  0.347 -9.000 -9.000 -999.  491.    101.9 0.2720  0.52  1.00  3.60  315.0  15.0 293.2  2.0    0  0.00  67.  1000.    2 NAD-SFC NoSubs
 9  8 20 232 24  -31.9  0.303 -9.000 -9.000 -999.  401.     77.7 0.2930  0.52  1.00  3.10  331.0  15.0 292.6  2.0    0  0.00  67.  1000.    2 NAD-SFC NoSubs
 9  8 21 233  1  -32.1  0.303 -9.000 -9.000 -999.  401.     77.7 0.2940  0.52  1.00  3.10   15.0  15.0 292.2  2.0    0  0.00  67.  1001.    2 NAD-SFC NoSubs
 9  8 21 233  2  -32.1  0.303 -9.000 -9.000 -999.  401.     77.6 0.2940  0.52  1.00  3.10   29.0  15.0 291.9  2.0    0  0.00  68.  1001.    2 NAD-SFC NoSubs
 9  8 21 233  3   -7.6  0.133 -9.000 -9.000 -999.  143.     27.8 0.2470  0.52  1.00  1.50   40.0  15.0 291.8  2.0    0  0.00  67.  1001.    2 NAD-SFC NoSubs
 9  8 21 233  4   -1.5  0.081 -9.000 -9.000 -999.   56.     31.3 0.2090  0.52  1.00  0.50   61.0  15.0 291.8  2.0    0  0.00  66.  1001.    2 NAD-SFC NoSubs
 9  8 21 233  5   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4 0.2130  0.52  1.00  0.50  106.0  15.0 291.5  2.0    0  0.00  69.  1001.    2 NAD-SFC NoSubs
 9  8 21 233  6   -1.5  0.080 -9.000 -9.000 -999.   55.     31.2 0.2130  0.52  0.71  0.50   95.0  15.0 291.4  2.0    0  0.00  72.  1001.    2 NAD-SFC NoSubs
 9  8 21 233  7   15.0  0.082  0.316  0.013   75.   56.     -3.3 0.2130  0.52  0.35  0.50   91.0  15.0 291.6  2.0    0  0.00  73.  1001.    2 NAD-SFC NoSubs
 9  8 21 233  8   63.0 -9.000 -9.000 -9.000  181. -999. -99999.0 0.2235  0.52  0.24  0.00    0.0  15.0 293.6  2.0    0  0.00  60.  1001.    2 NAD-SFC NoSubs
 9  8 21 233  9  105.7 -9.000 -9.000 -9.000  316. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 295.2  2.0    0  0.00  56.  1000.    2 NAD-SFC NoSubs
 9  8 21 233 10  139.9 -9.000 -9.000 -9.000  459. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 297.2  2.0    0  0.00  51.  1000.    2 NAD-SFC NoSubs
 9  8 21 233 11  163.9 -9.000 -9.000 -9.000  601. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 299.5  2.0    0  0.00  45.  1000.    2 NAD-SFC NoSubs
 9  8 21 233 12  176.2 -9.000 -9.000 -9.000  728. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 301.1  2.0    0  0.00  43.   999.    2 NAD-SFC NoSubs
 9  8 21 233 13  177.1 -9.000 -9.000 -9.000  841. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 302.8  2.0    0  0.00  41.   998.    2 NAD-SFC NoSubs
 9  8 21 233 14  166.6 -9.000 -9.000 -9.000  935. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 304.1  2.0    0  0.00  39.   997.    2 NAD-SFC NoSubs
 9  8 21 233 15  144.5  0.119  1.590  0.015  991.   98.     -1.0 0.2940  0.52  0.19  0.50   23.0  15.0 305.1  2.0    0  0.00  37.   997.    2 NAD-SFC NoSubs
 9  8 21 233 16  111.6  0.174  1.472  0.015 1018.  174.     -4.2 0.2940  0.52  0.20  1.00   25.0  15.0 305.6  2.0    0  0.00  37.   997.    2 NAD-SFC NoSubs
 9  8 21 233 17   69.6  0.164  1.265  0.014 1034.  160.     -5.7 0.2930  0.52  0.24  1.00  348.0  15.0 305.6  2.0    0  0.00  40.   997.    2 NAD-SFC NoSubs
 9  8 21 233 18   22.0  0.316  0.863  0.014 1038.  426.   -127.4 0.2160  0.52  0.34  3.10  294.0  15.0 305.0  2.0    0  0.00  44.   998.    2 NAD-SFC NoSubs
 9  8 21 233 19  -41.5  0.420 -9.000 -9.000 -999.  654.    159.2 0.2160  0.52  0.69  4.60  270.0  15.0 300.9  2.0    0  0.00  57.   998.    2 NAD-SFC NoSubs
 9  8 21 233 20  -31.8  0.308 -9.000 -9.000 -999.  419.     82.0 0.1750  0.52  1.00  3.60  267.0  15.0 298.6  2.0    0  0.00  62.   998.    2 NAD-SFC NoSubs
 9  8 21 233 21  -24.5  0.246 -9.000 -9.000 -999.  295.     54.2 0.2720  0.52  1.00  2.60  315.0  15.0 298.1  2.0    0  0.00  61.   999.    2 NAD-SFC NoSubs
 9  8 21 233 22  -31.4  0.303 -9.000 -9.000 -999.  401.     79.0 0.2930  0.52  1.00  3.10  334.0  15.0 297.4  2.0    0  0.00  61.   999.    2 NAD-SFC NoSubs
 9  8 21 233 23  -31.5  0.303 -9.000 -9.000 -999.  401.     78.8 0.2930  0.52  1.00  3.10  347.0  15.0 296.6  2.0    0  0.00  63.  1000.    2 NAD-SFC NoSubs
 9  8 21 233 24  -31.6  0.303 -9.000 -9.000 -999.  401.     78.5 0.2930  0.52  1.00  3.10  351.0  15.0 295.8  2.0    0  0.00  65.  1000.    2 NAD-SFC NoSubs
 9  8 22 234  1  -31.7  0.303 -9.000 -9.000 -999.  400.     78.4 0.2930  0.52  1.00  3.10  346.0  15.0 295.1  2.0    0  0.00  66.  1000.    2 NAD-SFC NoSubs
 9  8 22 234  2  -16.4  0.200 -9.000 -9.000 -999.  220.     43.4 0.2940  0.52  1.00  2.10   13.0  15.0 294.8  2.0    0  0.00  65.  1000.    2 NAD-SFC NoSubs
 9  8 22 234  3   -7.6  0.133 -9.000 -9.000 -999.  118.     27.9 0.2470  0.52  1.00  1.50   34.0  15.0 294.6  2.0    0  0.00  65.  1000.    2 NAD-SFC NoSubs
 9  8 22 234  4   -7.6  0.133 -9.000 -9.000 -999.  117.     27.9 0.2470  0.52  1.00  1.50   42.0  15.0 294.5  2.0    0  0.00  65.  1000.    2 NAD-SFC NoSubs
 9  8 22 234  5   -7.6  0.133 -9.000 -9.000 -999.  117.     27.9 0.2470  0.52  1.00  1.50   37.0  15.0 294.2  2.0    0  0.00  66.  1000.    2 NAD-SFC NoSubs
 9  8 22 234  6   -8.2  0.140 -9.000 -9.000 -999.  126.     29.9 0.2940  0.52  0.72  1.50   26.0  15.0 294.2  2.0    0  0.00  67.  1001.    2 NAD-SFC NoSubs
 9  8 22 234  7   15.3  0.178  0.351  0.010  101.  180.    -32.7 0.2470  0.52  0.35  1.50   33.0  15.0 294.0  2.0    0  0.00  68.  1001.    2 NAD-SFC NoSubs
 9  8 22 234  8   62.9  0.162  0.713  0.010  206.  157.     -6.0 0.2930  0.52  0.24  1.00  348.0  15.0 294.9  2.0    0  0.00  64.  1001.    2 NAD-SFC NoSubs
 9  8 22 234  9  105.6  0.114  1.004  0.009  342.   92.     -1.2 0.2940  0.52  0.20  0.50   23.0  15.0 296.2  2.0    0  0.00  61.  1001.    2 NAD-SFC NoSubs
 9  8 22 234 10  139.9  0.109  1.249  0.009  497.   87.     -1.0 0.2090  0.52  0.19  0.50   85.0  15.0 298.4  2.0    0  0.00  54.  1000.    2 NAD-SFC NoSubs
 9  8 22 234 11  164.0  0.111  1.438  0.010  647.   88.     -1.0 0.1970  0.52  0.19  0.50  121.0  15.0 300.8  2.0    0  0.00  47.  1000.    2 NAD-SFC NoSubs
 9  8 22 234 12  176.4  0.112  1.562  0.011  770.   90.     -1.0 0.1970  0.52  0.19  0.50  131.0  15.0 302.5  2.0    0  0.00  43.   999.    2 NAD-SFC NoSubs
 9  8 22 234 13  177.2  0.114  1.633  0.011  877.   92.     -1.0 0.2130  0.52  0.19  0.50  108.0  15.0 303.9  2.0    0  0.00  38.   999.    2 NAD-SFC NoSubs
 9  8 22 234 14  166.3  0.220  1.652  0.011  966.  248.     -5.7 0.2130  0.52  0.19  1.50  112.0  15.0 304.8  2.0    0  0.00  36.   998.    2 NAD-SFC NoSubs
 9  8 22 234 15  143.5  0.266  1.601  0.011 1019.  330.    -11.7 0.1970  0.52  0.19  2.10  125.0  15.0 304.8  2.0    0  0.00  40.   998.    2 NAD-SFC NoSubs
 9  8 22 234 16  110.2  0.386  1.484  0.010 1056.  576.    -46.6 0.1970  0.52  0.20  3.60  145.0  15.0 304.4  2.0    0  0.00  46.   998.    2 NAD-SFC NoSubs
 9  8 22 234 17   67.7  0.367  1.269  0.010 1078.  534.    -65.0 0.1810  0.52  0.24  3.60  164.0  15.0 303.8  2.0    0  0.00  49.   999.    2 NAD-SFC NoSubs
 9  8 22 234 18   20.5  0.430  0.853  0.010 1080.  677.   -346.7 0.1810  0.52  0.35  4.60  157.0  15.0 301.2  2.0    0  0.00  56.  1000.    3 NAD-SFC NoSubs
 9  8 22 234 19  -40.2  0.410 -9.000 -9.000 -999.  632.    153.4 0.1970  0.52  0.71  4.60  141.0  15.0 299.2  2.0    0  0.00  62.  1000.    3 NAD-SFC NoSubs
 9  8 22 234 20  -27.4  0.272 -9.000 -9.000 -999.  353.     65.4 0.1970  0.52  1.00  3.10  143.0  15.0 298.5  2.0    0  0.00  65.  1000.    3 NAD-SFC NoSubs
 9  8 22 234 21  -26.8  0.266 -9.000 -9.000 -999.  329.     62.5 0.1810  0.52  1.00  3.10  161.0  15.0 298.2  2.0    0  0.00  67.  1000.    3 NAD-SFC NoSubs
 9  8 22 234 22  -26.8  0.266 -9.000 -9.000 -999.  329.     62.4 0.1810  0.52  1.00  3.10  176.0  15.0 297.9  2.0    0  0.00  67.  1000.    3 NAD-SFC NoSubs
 9  8 22 234 23  -27.2  0.269 -9.000 -9.000 -999.  335.     64.0 0.1900  0.52  1.00  3.10  186.0  15.0 297.8  2.0    0  0.00  67.  1000.    3 NAD-SFC NoSubs
 9  8 22 234 24  -20.9  0.225 -9.000 -9.000 -999.  256.     48.4 0.1950  0.52  1.00  2.60  234.0  15.0 297.8  2.0    0  0.00  66.  1000.    3 NAD-SFC NoSubs
 9  8 23 235  1  -28.1  0.278 -9.000 -9.000 -999.  352.     68.4 0.2160  0.52  1.00  3.10  279.0  15.0 297.8  2.0    0  0.00  66.  1000.    3 NAD-SFC NoSubs
 9  8 23 235  2  -37.7  0.373 -9.000 -9.000 -999.  546.    122.6 0.2160  0.52  1.00  4.10  289.0  15.0 297.4  2.0    0  0.00  69.  1000.    3 NAD-SFC NoSubs
 9  8 23 235  3  -42.6  0.420 -9.000 -9.000 -999.  653.    155.3 0.2160  0.52  1.00  4.60  284.0  15.0 296.5  2.0    0  0.00  72.  1001.    3 NAD-SFC NoSubs
 9  8 23 235  4  -53.6  0.525 -9.000 -9.000 -999.  913.    241.3 0.2160  0.52  1.00  5.70  281.0  15.0 294.9  2.0    0  0.51  77.  1002.    3 NAD-SFC NoSubs
 9  8 23 235  5  -36.8  0.373 -9.000 -9.000 -999.  566.    125.8 0.2160  0.52  1.00  4.10  289.0  15.0 293.8  2.0    0  1.02  84.  1002.    4 NAD-SFC NoSubs
 9  8 23 235  6   -7.7  0.137 -9.000 -9.000 -999.  199.     29.9 0.2720  0.52  0.73  1.50  322.0  15.0 293.2  2.0    0  1.52  90.  1003.    4 NAD-SFC NoSubs
 9  8 23 235  7   16.8  0.266  0.405  0.005  141.  330.   -100.7 0.2090  0.52  0.35  2.60   83.0  15.0 293.2  2.0    0  1.27  93.  1003.    4 NAD-SFC NoSubs
 9  8 23 235  8   62.8  0.335  0.802  0.005  294.  466.    -53.6 0.2130  0.52  0.24  3.10  102.0  15.0 293.6  2.0    0  0.51  93.  1003.    4 NAD-SFC NoSubs
 9  8 23 235  9  105.0  0.347  1.162  0.005  535.  491.    -35.6 0.2090  0.52  0.20  3.10   86.0  15.0 294.5  2.0    0  0.00  90.  1003.    3 NAD-SFC NoSubs
 9  8 23 235 10  138.6  0.215  1.423  0.005  745.  250.     -6.4 0.2130  0.52  0.19  1.50   92.0  15.0 295.6  2.0    0  0.00  86.  1003.    3 NAD-SFC NoSubs
 9  8 23 235 11  161.9  0.273  1.581  0.005  875.  342.    -11.2 0.2090  0.52  0.19  2.10   85.0  15.0 297.0  2.0    0  0.00  70.  1003.    3 NAD-SFC NoSubs
 9  8 23 235 12  173.9  0.275  1.708  0.005 1026.  346.    -10.7 0.2090  0.52  0.19  2.10   67.0  15.0 298.4  2.0    0  0.00  61.  1002.    3 NAD-SFC NoSubs
 9  8 23 235 13  174.4  0.229  1.824  0.005 1244.  263.     -6.1 0.2470  0.52  0.19  1.50   38.0  15.0 299.5  2.0    0  0.00  55.  1001.    3 NAD-SFC NoSubs
 9  8 23 235 14  163.5  0.236  1.853  0.005 1391.  274.     -7.1 0.2930  0.52  0.19  1.50  331.0  15.0 300.4  2.0    0  0.00  51.  1001.    3 NAD-SFC NoSubs
 9  8 23 235 15  141.1  0.331  1.801  0.005 1481.  457.    -22.9 0.2720  0.52  0.19  2.60  318.0  15.0 300.9  2.0    0  0.00  49.  1001.    3 NAD-SFC NoSubs
 9  8 23 235 16  107.8  0.167  1.669  0.005 1543.  185.     -3.8 0.2470  0.52  0.20  1.00   34.0  15.0 300.2  2.0    0  0.00  52.  1001.    3 NAD-SFC NoSubs
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 9  8 23 235 17   66.1  0.103  1.430  0.005 1582.   81.     -1.5  0.2470  0.52  0.24  0.50   48.0  15.0 300.5  2.0    0  0.00   50.  1001.    3 NAD-SFC NoSubs
 9  8 23 235 18   19.2  0.084  0.951  0.005 1593.   59.     -2.8  0.2090  0.52  0.35  0.50   62.0  15.0 300.5  2.0    0  0.00   54.  1001.    3 NAD-SFC NoSubs
 9  8 23 235 19    8.9 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.72  0.00    0.0  15.0 299.6  2.0    0  0.00   58.  1001.    3 NAD-SFC NoSubs
 9  8 23 235 20   -1.4  0.077 -9.000 -9.000 -999.   52.     30.4  0.1750  0.52  1.00  0.50  240.0  15.0 298.4  2.0    0  0.00   64.  1001.    3 NAD-SFC NoSubs
 9  8 23 235 21   -6.5  0.122 -9.000 -9.000 -999.  103.     25.3  0.1750  0.52  1.00  1.50  242.0  15.0 297.5  2.0    0  0.00   68.  1001.    3 NAD-SFC NoSubs
 9  8 23 235 22  -12.8  0.173 -9.000 -9.000 -999.  173.     36.2  0.1750  0.52  1.00  2.10  265.0  15.0 296.8  2.0    0  0.00   70.  1001.    3 NAD-SFC NoSubs
 9  8 23 235 23  -28.3  0.278 -9.000 -9.000 -999.  352.     67.9  0.2160  0.52  1.00  3.10  278.0  15.0 295.8  2.0    0  0.00   72.  1001.    3 NAD-SFC NoSubs
 9  8 23 235 24  -33.3  0.325 -9.000 -9.000 -999.  446.     92.5  0.2160  0.52  1.00  3.60  295.0  15.0 294.5  2.0    0  0.00   74.  1001.    3 NAD-SFC NoSubs
 9  8 24 236  1  -33.4  0.325 -9.000 -9.000 -999.  446.     92.2  0.2160  0.52  1.00  3.60  284.0  15.0 293.4  2.0    0  0.00   75.  1001.    3 NAD-SFC NoSubs
 9  8 24 236  2  -28.6  0.278 -9.000 -9.000 -999.  353.     67.2  0.2160  0.52  1.00  3.10  295.0  15.0 292.6  2.0    0  0.00   77.  1001.    3 NAD-SFC NoSubs
 9  8 24 236  3  -15.7  0.196 -9.000 -9.000 -999.  210.     42.5  0.2720  0.52  1.00  2.10  319.0  15.0 292.2  2.0    0  0.00   77.  1001.    3 NAD-SFC NoSubs
 9  8 24 236  4  -15.7  0.196 -9.000 -9.000 -999.  208.     42.5  0.2720  0.52  1.00  2.10  327.0  15.0 292.1  2.0    0  0.00   78.  1001.    3 NAD-SFC NoSubs
 9  8 24 236  5  -24.5  0.246 -9.000 -9.000 -999.  293.     54.3  0.2720  0.52  1.00  2.60  304.0  15.0 291.8  2.0    0  0.00   80.  1002.    3 NAD-SFC NoSubs
 9  8 24 236  6  -30.5  0.297 -9.000 -9.000 -999.  388.     76.5  0.2720  0.52  0.73  3.10  302.0  15.0 291.2  2.0    0  0.00   84.  1002.    3 NAD-SFC NoSubs
 9  8 24 236  7   14.9  0.327  0.334  0.006   89.  448.   -209.8  0.2720  0.52  0.35  3.10  327.0  15.0 291.8  2.0    0  0.00   85.  1002.    3 NAD-SFC NoSubs
 9  8 24 236  8   62.2  0.211  0.720  0.008  214.  240.    -13.5  0.2930  0.52  0.24  1.50  340.0  15.0 293.2  2.0    0  0.00   79.  1003.    3 NAD-SFC NoSubs
 9  8 24 236  9  105.0 -9.000 -9.000 -9.000  339. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0 295.6  2.0    0  0.00   70.  1002.    3 NAD-SFC NoSubs
 9  8 24 236 10  138.7 -9.000 -9.000 -9.000  544. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 297.6  2.0    0  0.00   63.  1002.    2 NAD-SFC NoSubs
 9  8 24 236 11  162.4 -9.000 -9.000 -9.000  740. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 299.4  2.0    0  0.00   55.  1001.    2 NAD-SFC NoSubs
 9  8 24 236 12  174.7 -9.000 -9.000 -9.000  884. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 301.1  2.0    0  0.00   49.  1000.    2 NAD-SFC NoSubs
 9  8 24 236 13  175.3  0.120  1.703  0.007 1007.  100.     -1.0  0.2720  0.52  0.19  0.50  319.0  15.0 302.4  2.0    0  0.00   45.  1000.    2 NAD-SFC NoSubs
 9  8 24 236 14  164.3  0.182  1.722  0.007 1109.  187.     -3.3  0.2930  0.52  0.19  1.00  337.0  15.0 303.2  2.0    0  0.00   43.   999.    2 NAD-SFC NoSubs
 9  8 24 236 15  141.6  0.231  1.678  0.007 1189.  267.     -7.8  0.2930  0.52  0.19  1.50  350.0  15.0 303.8  2.0    0  0.00   42.   998.    2 NAD-SFC NoSubs
 9  8 24 236 16  108.2  0.328  1.558  0.007 1247.  451.    -29.1  0.2930  0.52  0.20  2.60  349.0  15.0 303.8  2.0    0  0.00   42.   998.    2 NAD-SFC NoSubs
 9  8 24 236 17   65.7  0.315  1.331  0.007 1280.  424.    -42.3  0.2930  0.52  0.24  2.60  360.0  15.0 303.4  2.0    0  0.00   50.   998.    2 NAD-SFC NoSubs
 9  8 24 236 18   18.0  0.335  0.866  0.007 1287.  466.   -186.7  0.2940  0.52  0.35  3.10    5.0  15.0 302.6  2.0    0  0.00   55.   998.    2 NAD-SFC NoSubs
 9  8 24 236 19  -36.0  0.355 -9.000 -9.000 -999.  507.    110.7  0.2940  0.52  0.73  3.60    4.0  15.0 301.4  2.0    0  0.00   57.   999.    2 NAD-SFC NoSubs
 9  8 24 236 20  -25.3  0.252 -9.000 -9.000 -999.  309.     56.1  0.2930  0.52  1.00  2.60  336.0  15.0 300.5  2.0    0  0.00   58.   999.    2 NAD-SFC NoSubs
 9  8 24 236 21  -38.5  0.373 -9.000 -9.000 -999.  546.    120.0  0.2160  0.52  1.00  4.10  289.0  15.0 298.9  2.0    0  0.00   62.  1000.    2 NAD-SFC NoSubs
 9  8 24 236 22  -43.8  0.420 -9.000 -9.000 -999.  653.    150.6  0.2160  0.52  1.00  4.60  279.0  15.0 295.5  2.0    0  0.00   65.  1000.    2 NAD-SFC NoSubs
 9  8 24 236 23  -39.1  0.373 -9.000 -9.000 -999.  547.    118.0  0.2160  0.52  1.00  4.10  278.0  15.0 294.2  2.0    0  0.00   65.  1001.    2 NAD-SFC NoSubs
 9  8 24 236 24  -29.2  0.278 -9.000 -9.000 -999.  357.     65.6  0.2160  0.52  1.00  3.10  286.0  15.0 293.8  2.0    0  0.00   68.  1001.    2 NAD-SFC NoSubs
 9  8 25 237  1  -30.4  0.297 -9.000 -9.000 -999.  388.     76.7  0.2720  0.52  1.00  3.10  310.0  15.0 293.6  2.0    0  0.00   68.  1002.    3 NAD-SFC NoSubs
 9  8 25 237  2  -25.4  0.252 -9.000 -9.000 -999.  304.     56.2  0.2930  0.52  1.00  2.60  332.0  15.0 293.5  2.0    0  0.00   69.  1002.    3 NAD-SFC NoSubs
 9  8 25 237  3  -16.3  0.200 -9.000 -9.000 -999.  215.     43.9  0.2930  0.52  1.00  2.10  336.0  15.0 293.1  2.0    0  0.00   73.  1003.    3 NAD-SFC NoSubs
 9  8 25 237  4   -8.2  0.140 -9.000 -9.000 -999.  126.     29.9  0.2930  0.52  1.00  1.50  346.0  15.0 292.5  2.0    0  0.00   77.  1003.    3 NAD-SFC NoSubs
 9  8 25 237  5   -3.9  0.101 -9.000 -9.000 -999.   78.     23.7  0.2930  0.52  1.00  1.00  358.0  15.0 292.0  2.0    0  0.00   80.  1003.    3 NAD-SFC NoSubs
 9  8 25 237  6   -3.9  0.101 -9.000 -9.000 -999.   78.     23.7  0.2930  0.52  0.74  1.00  355.0  15.0 291.5  2.0    0  0.00   82.  1004.    3 NAD-SFC NoSubs
 9  8 25 237  7   14.4  0.238  0.375  0.009  130.  279.    -84.2  0.2930  0.52  0.36  2.10  350.0  15.0 291.9  2.0    0  0.00   78.  1004.    3 NAD-SFC NoSubs
 9  8 25 237  8   60.8  0.161  0.742  0.010  241.  157.     -6.2  0.2930  0.52  0.24  1.00  354.0  15.0 293.2  2.0    0  0.00   72.  1004.    2 NAD-SFC NoSubs
 9  8 25 237  9  104.0 -9.000 -9.000 -9.000  335. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0 295.6  2.0    0  0.00   62.  1004.    2 NAD-SFC NoSubs
 9  8 25 237 10  138.2 -9.000 -9.000 -9.000  477. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 297.5  2.0    0  0.00   57.  1004.    2 NAD-SFC NoSubs
 9  8 25 237 11  162.0 -9.000 -9.000 -9.000  652. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 299.5  2.0    0  0.00   50.  1003.    2 NAD-SFC NoSubs
 9  8 25 237 12  174.2 -9.000 -9.000 -9.000  798. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 301.1  2.0    0  0.00   46.  1002.    2 NAD-SFC NoSubs
 9  8 25 237 13  174.8 -9.000 -9.000 -9.000  923. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 302.5  2.0    0  0.00   43.  1001.    2 NAD-SFC NoSubs
 9  8 25 237 14  163.8  0.119  1.670  0.008 1016.   98.     -1.0  0.2720  0.52  0.19  0.50  327.0  15.0 303.5  2.0    0  0.00   41.  1001.    2 NAD-SFC NoSubs
 9  8 25 237 15  141.0  0.231  1.624  0.008 1085.  267.     -7.8  0.2930  0.52  0.19  1.50  355.0  15.0 304.1  2.0    0  0.00   40.  1000.    2 NAD-SFC NoSubs
 9  8 25 237 16  107.6  0.282  1.506  0.008 1133.  360.    -18.6  0.2940  0.52  0.21  2.10    3.0  15.0 304.2  2.0    0  0.00   40.  1000.    2 NAD-SFC NoSubs
 9  8 25 237 17   65.0 -9.000 -9.000 -9.000 1161. -999. -99999.0  0.2235  0.52  0.24  0.00    0.0  15.0 303.9  2.0    0  0.00   48.  1000.    2 NAD-SFC NoSubs
 9  8 25 237 18   17.3  0.335  0.827  0.007 1167.  465.   -193.7  0.2940  0.52  0.36  3.10    6.0  15.0 303.1  2.0    0  0.00   53.  1000.    2 NAD-SFC NoSubs
 9  8 25 237 19  -10.5 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.75  0.00    0.0  15.0 302.0  2.0    0  0.00   56.  1001.    2 NAD-SFC NoSubs
 9  8 25 237 20  -38.3  0.373 -9.000 -9.000 -999.  546.    120.7  0.2160  0.52  1.00  4.10  287.0  15.0 300.8  2.0    0  0.00   59.  1001.    2 NAD-SFC NoSubs
 9  8 25 237 21  -43.7  0.420 -9.000 -9.000 -999.  653.    151.3  0.2160  0.52  1.00  4.60  281.0  15.0 296.8  2.0    0  0.00   67.  1002.    2 NAD-SFC NoSubs
 9  8 25 237 22  -39.0  0.373 -9.000 -9.000 -999.  547.    118.3  0.2160  0.52  1.00  4.10  278.0  15.0 295.0  2.0    0  0.00   68.  1002.    2 NAD-SFC NoSubs
 9  8 25 237 23  -34.2  0.325 -9.000 -9.000 -999.  447.     90.0  0.2160  0.52  1.00  3.60  288.0  15.0 294.2  2.0    0  0.00   69.  1003.    2 NAD-SFC NoSubs
 9  8 25 237 24  -30.5  0.297 -9.000 -9.000 -999.  388.     76.6  0.2720  0.52  1.00  3.10  303.0  15.0 293.5  2.0    0  0.00   69.  1003.    3 NAD-SFC NoSubs
 9  8 26 238  1  -25.4  0.252 -9.000 -9.000 -999.  304.     56.1  0.2930  0.52  1.00  2.60  343.0  15.0 293.0  2.0    0  0.00   68.  1003.    3 NAD-SFC NoSubs
 9  8 26 238  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0 292.4  2.0    0  0.00   69.  1004.    3 NAD-SFC NoSubs
 9  8 26 238  3  -25.5  0.252 -9.000 -9.000 -999.  304.     56.1  0.2940  0.52  1.00  2.60    2.0  15.0 292.1  2.0    0  0.00   68.  1004.    3 NAD-SFC NoSubs
 9  8 26 238  4   -8.2  0.140 -9.000 -9.000 -999.  132.     29.9  0.2930  0.52  1.00  1.50  350.0  15.0 292.0  2.0    0  0.00   67.  1004.    3 NAD-SFC NoSubs
 9  8 26 238  5   -8.2  0.140 -9.000 -9.000 -999.  125.     29.9  0.2930  0.52  1.00  1.50  338.0  15.0 291.8  2.0    0  0.00   68.  1004.    3 NAD-SFC NoSubs
 9  8 26 238  6   -4.0  0.102 -9.000 -9.000 -999.   78.     23.6  0.2930  0.52  0.75  1.00  347.0  15.0 291.2  2.0    0  0.00   72.  1005.    2 NAD-SFC NoSubs
 9  8 26 238  7   12.5  0.181  0.301  0.011   78.  185.    -42.7  0.2930  0.52  0.36  1.50  351.0  15.0 291.9  2.0    0  0.00   72.  1005.    2 NAD-SFC NoSubs
 9  8 26 238  8   60.3  0.105  0.702  0.011  205.   84.     -1.7  0.2930  0.52  0.24  0.50  344.0  15.0 293.4  2.0    0  0.00   68.  1005.    2 NAD-SFC NoSubs
 9  8 26 238  9  103.5 -9.000 -9.000 -9.000  336. -999. -99999.0  0.2235  0.52  0.21  0.00    0.0  15.0 295.8  2.0    0  0.00   59.  1005.    2 NAD-SFC NoSubs
 9  8 26 238 10  137.7 -9.000 -9.000 -9.000  472. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 297.6  2.0    0  0.00   54.  1005.    2 NAD-SFC NoSubs
 9  8 26 238 11  161.6 -9.000 -9.000 -9.000  606. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 299.8  2.0    0  0.00   49.  1004.    2 NAD-SFC NoSubs
 9  8 26 238 12  173.8 -9.000 -9.000 -9.000  750. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 301.5  2.0    0  0.00   44.  1003.    2 NAD-SFC NoSubs
 9  8 26 238 13  174.4  0.120  1.628  0.008  886.   99.     -1.0  0.2720  0.52  0.19  0.50  318.0  15.0 302.9  2.0    0  0.00   40.  1003.    2 NAD-SFC NoSubs
 9  8 26 238 14  163.4  0.179  1.656  0.008  994.  182.     -3.2  0.2720  0.52  0.19  1.00  322.0  15.0 304.0  2.0    0  0.00   37.  1002.    2 NAD-SFC NoSubs
 9  8 26 238 15  140.6  0.231  1.615  0.008 1071.  266.     -7.8  0.2930  0.52  0.19  1.50  338.0  15.0 304.6  2.0    0  0.00   36.  1001.    2 NAD-SFC NoSubs
 9  8 26 238 16  106.9  0.328  1.498  0.008 1124.  450.    -29.4  0.2930  0.52  0.21  2.60  356.0  15.0 304.5  2.0    0  0.00   39.  1001.    2 NAD-SFC NoSubs
 9  8 26 238 17   63.9  0.314  1.273  0.008 1153.  423.    -43.3  0.2940  0.52  0.24  2.60   14.0  15.0 303.8  2.0    0  0.00   49.  1001.    2 NAD-SFC NoSubs
 9  8 26 238 18   16.0  0.381  0.803  0.008 1158.  565.   -310.4  0.2940  0.52  0.36  3.60    6.0  15.0 302.4  2.0    0  0.00   55.  1002.    2 NAD-SFC NoSubs
 9  8 26 238 19  -16.3  0.200 -9.000 -9.000 -999.  242.     43.9  0.2930  0.52  0.76  2.10  356.0  15.0 301.4  2.0    0  0.00   57.  1002.    2 NAD-SFC NoSubs
 9  8 26 238 20  -33.5  0.325 -9.000 -9.000 -999.  446.     92.0  0.2160  0.52  1.00  3.60  295.0  15.0 300.5  2.0    0  0.00   58.  1002.    2 NAD-SFC NoSubs
 9  8 26 238 21  -38.7  0.373 -9.000 -9.000 -999.  546.    119.4  0.2160  0.52  1.00  4.10  281.0  15.0 297.6  2.0    0  0.00   60.  1002.    2 NAD-SFC NoSubs
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 9  8 26 238 22   -34.0  0.325 -9.000 -9.000 -999.  447.     90.6  0.2160  0.52  1.00   3.60  294.0  15.0  296.1   2.0    0   0.00   58.  1002.     2 NAD-SFC NoSubs
 9  8 26 238 23   -29.1  0.278 -9.000 -9.000 -999.  353.     66.0  0.2160  0.52  1.00   3.10  290.0  15.0  295.2   2.0    0   0.00   57.  1002.     2 NAD-SFC NoSubs
 9  8 26 238 24   -24.7  0.246 -9.000 -9.000 -999.  293.     53.8  0.2720  0.52  1.00   2.60  304.0  15.0  294.8   2.0    0   0.00   56.  1002.     2 NAD-SFC NoSubs
 9  8 27 239  1   -16.5  0.200 -9.000 -9.000 -999.  215.     43.3  0.2930  0.52  1.00   2.10  345.0  15.0  294.2   2.0    0   0.00   55.  1003.     2 NAD-SFC NoSubs
 9  8 27 239  2    -8.2  0.140 -9.000 -9.000 -999.  126.     29.6  0.2930  0.52  1.00   1.50  351.0  15.0  293.9   2.0    0   0.00   55.  1003.     2 NAD-SFC NoSubs
 9  8 27 239  3    -3.9  0.101 -9.000 -9.000 -999.   77.     23.3  0.2720  0.52  1.00   1.00  322.0  15.0  293.2   2.0    0   0.00   57.  1003.     2 NAD-SFC NoSubs
 9  8 27 239  4    -3.6  0.097 -9.000 -9.000 -999.   72.     22.4  0.2160  0.52  1.00   1.00  294.0  15.0  292.8   2.0    0   0.00   60.  1003.     2 NAD-SFC NoSubs
 9  8 27 239  5    -3.9  0.101 -9.000 -9.000 -999.   77.     23.3  0.2720  0.52  1.00   1.00  301.0  15.0  292.1   2.0    0   0.00   64.  1003.     2 NAD-SFC NoSubs
 9  8 27 239  6    -1.6  0.083 -9.000 -9.000 -999.   58.     31.9  0.2720  0.52  0.76   0.50  309.0  15.0  291.6   2.0    0   0.00   69.  1004.     2 NAD-SFC NoSubs
 9  8 27 239  7    11.9  0.084  0.309  0.014   89.   58.     -4.4  0.2720  0.52  0.36   0.50  315.0  15.0  291.5   2.0    0   0.00   73.  1004.     2 NAD-SFC NoSubs
 9  8 27 239  8    59.6  0.105  0.680  0.012  188.   82.     -1.7  0.2930  0.52  0.24   0.50  340.0  15.0  292.9   2.0    0   0.00   72.  1004.     2 NAD-SFC NoSubs
 9  8 27 239  9   102.8 -9.000 -9.000 -9.000  303. -999. -99999.0  0.2235  0.52  0.21   0.00    0.0  15.0  294.9   2.0    0   0.00   65.  1004.     2 NAD-SFC NoSubs
 9  8 27 239 10   137.2 -9.000 -9.000 -9.000  424. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  297.4   2.0    0   0.00   57.  1003.     2 NAD-SFC NoSubs
 9  8 27 239 11   160.8 -9.000 -9.000 -9.000  572. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  299.2   2.0    0   0.00   52.  1003.     2 NAD-SFC NoSubs
 9  8 27 239 12   173.0 -9.000 -9.000 -9.000  718. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  300.9   2.0    0   0.00   49.  1002.     2 NAD-SFC NoSubs
 9  8 27 239 13   173.5 -9.000 -9.000 -9.000  870. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  302.2   2.0    0   0.00   45.  1002.     2 NAD-SFC NoSubs
 9  8 27 239 14   162.3 -9.000 -9.000 -9.000  985. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  303.2   2.0    0   0.00   43.  1001.     2 NAD-SFC NoSubs
 9  8 27 239 15   139.3  0.231  1.596  0.009 1043.  266.     -7.9  0.2940  0.52  0.20   1.50    6.0  15.0  303.6   2.0    0   0.00   43.  1001.     2 NAD-SFC NoSubs
 9  8 27 239 16   105.5  0.281  1.474  0.009 1085.  358.    -18.9  0.2940  0.52  0.21   2.10   20.0  15.0  303.5   2.0    0   0.00   45.  1001.     2 NAD-SFC NoSubs
 9  8 27 239 17    62.6  0.257  1.248  0.008 1109.  314.    -24.3  0.2470  0.52  0.24   2.10   32.0  15.0  303.0   2.0    0   0.00   53.  1001.     2 NAD-SFC NoSubs
 9  8 27 239 18    14.8  0.239  0.773  0.008 1113.  281.    -82.4  0.2940  0.52  0.37   2.10   29.0  15.0  302.0   2.0    0   0.00   56.  1001.     2 NAD-SFC NoSubs
 9  8 27 239 19    -3.7  0.098 -9.000 -9.000 -999.   90.     22.9  0.2470  0.52  1.00   1.00   32.0  15.0  300.8   2.0    0   0.00   60.  1001.     2 NAD-SFC NoSubs
 9  8 27 239 20  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  299.5   2.0    0   0.00   65.  1001.     2 NAD-SFC NoSubs
 9  8 27 239 21  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  298.4   2.0    0   0.00   71.  1001.     2 NAD-SFC NoSubs
 9  8 27 239 22  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  297.5   2.0    0   0.00   75.  1001.     2 NAD-SFC NoSubs
 9  8 27 239 23    -1.6  0.083 -9.000 -9.000 -999.   58.     31.8  0.2940  0.52  1.00   0.50   21.0  15.0  296.8   2.0    0   0.00   78.  1002.     2 NAD-SFC NoSubs
 9  8 27 239 24  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  296.1   2.0    0   0.00   80.  1002.     2 NAD-SFC NoSubs
 9  8 28 240  1    -1.6  0.084 -9.000 -9.000 -999.   58.     31.9  0.2930  0.52  1.00   0.50  356.0  15.0  295.8   2.0    0   0.00   82.  1002.     2 NAD-SFC NoSubs
 9  8 28 240  2  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  295.2   2.0    0   0.00   83.  1002.     2 NAD-SFC NoSubs
 9  8 28 240  3    -1.6  0.084 -9.000 -9.000 -999.   58.     31.9  0.2930  0.52  1.00   0.50  351.0  15.0  295.0   2.0    0   0.00   84.  1002.     2 NAD-SFC NoSubs
 9  8 28 240  4    -4.0  0.102 -9.000 -9.000 -999.   78.     23.6  0.2930  0.52  1.00   1.00  334.0  15.0  294.8   2.0    0   0.00   84.  1003.     2 NAD-SFC NoSubs
 9  8 28 240  5    -4.0  0.102 -9.000 -9.000 -999.   78.     23.6  0.2930  0.52  1.00   1.00  331.0  15.0  294.2   2.0    0   0.00   85.  1003.     2 NAD-SFC NoSubs
 9  8 28 240  6    -3.9  0.100 -9.000 -9.000 -999.   76.     23.3  0.2720  0.52  0.77   1.00  327.0  15.0  294.0   2.0    0   0.00   86.  1003.     2 NAD-SFC NoSubs
 9  8 28 240  7    12.1  0.084  0.279  0.011   64.   58.     -4.4  0.2720  0.52  0.36   0.50  325.0  15.0  293.8   2.0    0   0.00   85.  1003.     2 NAD-SFC NoSubs
 9  8 28 240  8    59.9  0.161  0.695  0.009  201.  155.     -6.2  0.2930  0.52  0.24   1.00  341.0  15.0  295.1   2.0    0   0.00   73.  1003.     2 NAD-SFC NoSubs
 9  8 28 240  9   103.1 -9.000 -9.000 -9.000  373. -999. -99999.0  0.2235  0.52  0.21   0.00    0.0  15.0  297.1   2.0    0   0.00   64.  1003.     2 NAD-SFC NoSubs
 9  8 28 240 10   137.5 -9.000 -9.000 -9.000  515. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  299.4   2.0    0   0.00   56.  1002.     2 NAD-SFC NoSubs
 9  8 28 240 11   161.2 -9.000 -9.000 -9.000  643. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  301.1   2.0    0   0.00   51.  1002.     2 NAD-SFC NoSubs
 9  8 28 240 12   173.3 -9.000 -9.000 -9.000  741. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  302.8   2.0    0   0.00   46.  1001.     2 NAD-SFC NoSubs
 9  8 28 240 13   173.9  0.122  1.590  0.009  826.  102.     -1.0  0.2930  0.52  0.19   0.50  338.0  15.0  304.2   2.0    0   0.00   42.  1000.     2 NAD-SFC NoSubs
 9  8 28 240 14   162.5  0.182  1.599  0.008  898.  187.     -3.3  0.2930  0.52  0.19   1.00  354.0  15.0  305.0   2.0    0   0.00   39.  1000.     2 NAD-SFC NoSubs
 9  8 28 240 15   139.3  0.289  1.551  0.008  956.  373.    -15.5  0.2940  0.52  0.20   2.10    4.0  15.0  305.2   2.0    0   0.00   39.   999.     2 NAD-SFC NoSubs
 9  8 28 240 16   105.5  0.328  1.439  0.008 1009.  450.    -29.7  0.2940  0.52  0.21   2.60   12.0  15.0  305.2   2.0    0   0.00   39.   999.     2 NAD-SFC NoSubs
 9  8 28 240 17    62.5  0.267  1.222  0.008 1042.  333.    -27.2  0.2940  0.52  0.24   2.10    9.0  15.0  304.8   2.0    0   0.00   46.   999.     2 NAD-SFC NoSubs
 9  8 28 240 18    14.7  0.239  0.755  0.008 1047.  280.    -82.8  0.2930  0.52  0.37   2.10  359.0  15.0  303.8   2.0    0   0.00   49.  1000.     2 NAD-SFC NoSubs
 9  8 28 240 19    -3.8  0.100 -9.000 -9.000 -999.   91.     23.3  0.2720  0.52  1.00   1.00  314.0  15.0  302.2   2.0    0   0.00   54.  1000.     2 NAD-SFC NoSubs
 9  8 28 240 20    -3.5  0.096 -9.000 -9.000 -999.   71.     22.4  0.2160  0.52  1.00   1.00  278.0  15.0  301.0   2.0    0   0.00   59.  1000.     2 NAD-SFC NoSubs
 9  8 28 240 21    -3.8  0.100 -9.000 -9.000 -999.   76.     23.3  0.2720  0.52  1.00   1.00  300.0  15.0  299.9   2.0    0   0.00   64.  1000.     2 NAD-SFC NoSubs
 9  8 28 240 22    -3.9  0.102 -9.000 -9.000 -999.   78.     23.7  0.2930  0.52  1.00   1.00  342.0  15.0  299.0   2.0    0   0.00   67.  1000.     2 NAD-SFC NoSubs
 9  8 28 240 23  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  298.2   2.0    0   0.00   69.  1001.     2 NAD-SFC NoSubs
 9  8 28 240 24    -4.0  0.102 -9.000 -9.000 -999.   78.     23.7  0.2940  0.52  1.00   1.00    6.0  15.0  297.5   2.0    0   0.00   71.  1001.     2 NAD-SFC NoSubs
 9  8 29 241  1    -1.6  0.083 -9.000 -9.000 -999.   58.     31.8  0.2930  0.52  1.00   0.50  343.0  15.0  296.8   2.0    0   0.00   73.  1000.     2 NAD-SFC NoSubs
 9  8 29 241  2    -3.9  0.100 -9.000 -9.000 -999.   76.     23.3  0.2720  0.52  1.00   1.00  323.0  15.0  296.2   2.0    0   0.00   74.  1000.     2 NAD-SFC NoSubs
 9  8 29 241  3    -3.6  0.096 -9.000 -9.000 -999.   72.     22.4  0.2160  0.52  1.00   1.00  293.0  15.0  295.5   2.0    0   0.00   77.  1000.     2 NAD-SFC NoSubs
 9  8 29 241  4    -3.6  0.096 -9.000 -9.000 -999.   72.     22.4  0.2160  0.52  1.00   1.00  294.0  15.0  294.8   2.0    0   0.00   78.  1000.     2 NAD-SFC NoSubs
 9  8 29 241  5    -3.6  0.096 -9.000 -9.000 -999.   72.     22.4  0.2160  0.52  1.00   1.00  277.0  15.0  294.2   2.0    0   0.00   81.  1000.     2 NAD-SFC NoSubs
 9  8 29 241  6    -1.5  0.081 -9.000 -9.000 -999.   55.     31.3  0.2160  0.52  1.00   0.50  290.0  15.0  293.5   2.0    0   0.00   83.  1001.     2 NAD-SFC NoSubs
 9  8 29 241  7    11.6 -9.000 -9.000 -9.000   56. -999. -99999.0  0.2235  0.52  0.37   0.00    0.0  15.0  293.9   2.0    0   0.00   81.  1001.     2 NAD-SFC NoSubs
 9  8 29 241  8    59.9 -9.000 -9.000 -9.000  163. -999. -99999.0  0.2235  0.52  0.24   0.00    0.0  15.0  296.8   2.0    0   0.00   66.  1001.     2 NAD-SFC NoSubs
 9  8 29 241  9   103.3 -9.000 -9.000 -9.000  322. -999. -99999.0  0.2235  0.52  0.21   0.00    0.0  15.0  299.0   2.0    0   0.00   59.  1000.     2 NAD-SFC NoSubs
 9  8 29 241 10   137.8 -9.000 -9.000 -9.000  468. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  301.1   2.0    0   0.00   50.  1000.     2 NAD-SFC NoSubs
 9  8 29 241 11   161.4 -9.000 -9.000 -9.000  589. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  302.8   2.0    0   0.00   45.   999.     2 NAD-SFC NoSubs
 9  8 29 241 12   173.6 -9.000 -9.000 -9.000  696. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  304.5   2.0    0   0.00   40.   998.     2 NAD-SFC NoSubs
 9  8 29 241 13   174.1 -9.000 -9.000 -9.000  786. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  305.9   2.0    0   0.00   36.   998.     2 NAD-SFC NoSubs
 9  8 29 241 14   162.9  0.119  1.580  0.008  862.   98.     -1.0  0.2720  0.52  0.19   0.50  317.0  15.0  307.0   2.0    0   0.00   32.   997.     2 NAD-SFC NoSubs
 9  8 29 241 15   140.1  0.179  1.538  0.007  923.  182.     -3.7  0.2940  0.52  0.20   1.00   11.0  15.0  307.9   2.0    0   0.00   30.   996.     2 NAD-SFC NoSubs
 9  8 29 241 16   106.3  0.224  1.424  0.007  966.  255.     -9.4  0.2940  0.52  0.21   1.50   16.0  15.0  308.1   2.0    0   0.00   30.   996.     2 NAD-SFC NoSubs
 9  8 29 241 17    63.0  0.211  1.211  0.007 1002.  233.    -13.3  0.2940  0.52  0.25   1.50   19.0  15.0  307.4   2.0    0   0.00   38.   995.     2 NAD-SFC NoSubs
 9  8 29 241 18    15.2  0.184  0.756  0.006 1008.  190.    -36.7  0.2940  0.52  0.38   1.50   23.0  15.0  306.5   2.0    0   0.00   43.   996.     2 NAD-SFC NoSubs
 9  8 29 241 19     6.9 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  304.6   2.0    0   0.00   50.   996.     2 NAD-SFC NoSubs
 9  8 29 241 20    -1.4  0.078 -9.000 -9.000 -999.   52.     30.5  0.1750  0.52  1.00   0.50  264.0  15.0  302.9   2.0    0   0.00   56.   996.     2 NAD-SFC NoSubs
 9  8 29 241 21   -21.9  0.231 -9.000 -9.000 -999.  266.     50.0  0.2160  0.52  1.00   2.60  278.0  15.0  302.0   2.0    0   0.00   58.   996.     2 NAD-SFC NoSubs
 9  8 29 241 22   -38.2  0.373 -9.000 -9.000 -999.  546.    120.4  0.2160  0.52  1.00   4.10  293.0  15.0  299.9   2.0    0   0.00   63.   997.     2 NAD-SFC NoSubs
 9  8 29 241 23   -33.6  0.325 -9.000 -9.000 -999.  447.     91.2  0.2160  0.52  1.00   3.60  292.0  15.0  298.0   2.0    0   0.00   68.   997.     2 NAD-SFC NoSubs
 9  8 29 241 24   -33.7  0.325 -9.000 -9.000 -999.  445.     90.9  0.2160  0.52  1.00   3.60  295.0  15.0  297.0   2.0    0   0.00   69.   997.     2 NAD-SFC NoSubs
 9  8 30 242  1   -33.8  0.325 -9.000 -9.000 -999.  445.     90.6  0.2160  0.52  1.00   3.60  289.0  15.0  296.2   2.0    0   0.00   71.   998.     2 NAD-SFC NoSubs
 9  8 30 242  2   -28.9  0.278 -9.000 -9.000 -999.  353.     66.1  0.2160  0.52  1.00   3.10  299.0  15.0  295.9   2.0    0   0.00   74.   998.     2 NAD-SFC NoSubs
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 9  8 30 242  3  -22.1  0.231 -9.000 -9.000 -999.  267.     49.4  0.2160  0.52  1.00  2.60  298.0  15.0  295.6  2.0  0  0.00  76.   998.   2 NAD-SFC NoSubs
 9  8 30 242  4   -7.1  0.129 -9.000 -9.000 -999.  116.     26.6  0.2160  0.52  1.00  1.50  286.0  15.0  295.1  2.0  0  0.00  79.   998.   2 NAD-SFC NoSubs
 9  8 30 242  5   -3.6  0.096 -9.000 -9.000 -999.   72.     22.4  0.2160  0.52  1.00  1.00  299.0  15.0  294.6  2.0  0  0.00  81.   998.   2 NAD-SFC NoSubs
 9  8 30 242  6   -1.6  0.083 -9.000 -9.000 -999.   57.     31.8  0.2720  0.52  1.00  0.50  318.0  15.0  294.1  2.0  0  0.00  84.   999.   2 NAD-SFC NoSubs
 9  8 30 242  7   11.3  0.134  0.317  0.015  100.  118.    -18.9  0.2930  0.52  0.37  1.00  340.0  15.0  294.5  2.0  0  0.00  82.   999.   2 NAD-SFC NoSubs
 9  8 30 242  8   59.2  0.105  0.689  0.014  197.   82.     -1.7  0.2930  0.52  0.24  0.50  337.0  15.0  296.2  2.0  0  0.00  73.   999.   2 NAD-SFC NoSubs
 9  8 30 242  9  102.6 -9.000 -9.000 -9.000  310. -999. -99999.0  0.2235  0.52  0.21  0.00    0.0  15.0  298.5  2.0  0  0.00  64.   999.   2 NAD-SFC NoSubs
 9  8 30 242 10  137.0 -9.000 -9.000 -9.000  421. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  300.5  2.0  0  0.00  55.   999.   2 NAD-SFC NoSubs
 9  8 30 242 11  160.6 -9.000 -9.000 -9.000  531. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  302.2  2.0  0  0.00  50.   998.   2 NAD-SFC NoSubs
 9  8 30 242 12  172.9 -9.000 -9.000 -9.000  630. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  304.1  2.0  0  0.00  44.   998.   2 NAD-SFC NoSubs
 9  8 30 242 13  173.3  0.122  1.556  0.008  774.  102.     -1.0  0.2930  0.52  0.19  0.50  342.0  15.0  305.6  2.0  0  0.00  39.   997.   2 NAD-SFC NoSubs
 9  8 30 242 14  162.0  0.182  1.605  0.009  909.  187.     -3.3  0.2940  0.52  0.19  1.00   12.0  15.0  306.6  2.0  0  0.00  36.   996.   2 NAD-SFC NoSubs
 9  8 30 242 15  138.8  0.231  1.573  0.009  997.  266.     -7.9  0.2940  0.52  0.20  1.50   17.0  15.0  307.2  2.0  0  0.00  35.   996.   2 NAD-SFC NoSubs
 9  8 30 242 16  104.8  0.281  1.455  0.009 1045.  358.    -18.9  0.2940  0.52  0.21  2.10   27.0  15.0  307.2  2.0  0  0.00  36.   996.   2 NAD-SFC NoSubs
 9  8 30 242 17   61.6  0.267  1.229  0.008 1071.  331.    -27.5  0.2940  0.52  0.25  2.10   24.0  15.0  306.8  2.0  0  0.00  45.   996.   2 NAD-SFC NoSubs
 9  8 30 242 18   14.0  0.332  0.751  0.008 1076.  458.   -232.1  0.2930  0.52  0.38  3.10  357.0  15.0  306.1  2.0  0  0.00  48.   996.   2 NAD-SFC NoSubs
 9  8 30 242 19  -30.6  0.303 -9.000 -9.000 -999.  401.     81.1  0.2930  0.52  1.00  3.10  332.0  15.0  304.8  2.0  0  0.00  51.   996.   2 NAD-SFC NoSubs
 9  8 30 242 20  -47.6  0.468 -9.000 -9.000 -999.  768.    191.1  0.2160  0.52  1.00  5.10  290.0  15.0  302.2  2.0  0  0.00  55.   997.   2 NAD-SFC NoSubs
 9  8 30 242 21  -41.0  0.398 -9.000 -9.000 -999.  606.    136.7  0.1750  0.52  1.00  4.60  268.0  15.0  298.8  2.0  0  0.00  62.   997.   2 NAD-SFC NoSubs
 9  8 30 242 22  -36.6  0.353 -9.000 -9.000 -999.  505.    107.1  0.1750  0.52  1.00  4.10  269.0  15.0  297.2  2.0  0  0.00  64.   998.   2 NAD-SFC NoSubs
 9  8 30 242 23  -32.0  0.308 -9.000 -9.000 -999.  412.     81.3  0.1750  0.52  1.00  3.60  267.0  15.0  296.2  2.0  0  0.00  67.   998.   2 NAD-SFC NoSubs
 9  8 30 242 24  -22.1  0.231 -9.000 -9.000 -999.  268.     49.4  0.2160  0.52  1.00  2.60  288.0  15.0  295.6  2.0  0  0.00  68.   998.   2 NAD-SFC NoSubs
 9  8 31 243  1  -24.6  0.246 -9.000 -9.000 -999.  293.     53.9  0.2720  0.52  1.00  2.60  318.0  15.0  295.2  2.0  0  0.00  68.   998.   2 NAD-SFC NoSubs
 9  8 31 243  2  -31.0  0.297 -9.000 -9.000 -999.  387.     75.0  0.2720  0.52  1.00  3.10  313.0  15.0  294.9  2.0  0  0.00  69.   999.   2 NAD-SFC NoSubs
 9  8 31 243  3  -31.0  0.297 -9.000 -9.000 -999.  387.     74.8  0.2720  0.52  1.00  3.10  314.0  15.0  294.4  2.0  0  0.00  72.   999.   2 NAD-SFC NoSubs
 9  8 31 243  4  -24.7  0.246 -9.000 -9.000 -999.  294.     53.8  0.2720  0.52  1.00  2.60  321.0  15.0  293.9  2.0  0  0.00  76.   999.   2 NAD-SFC NoSubs
 9  8 31 243  5  -15.8  0.195 -9.000 -9.000 -999.  208.     41.9  0.2720  0.52  1.00  2.10  328.0  15.0  293.4  2.0  0  0.00  79.   999.   2 NAD-SFC NoSubs
 9  8 31 243  6   -8.2  0.140 -9.000 -9.000 -999.  126.     29.6  0.2930  0.52  1.00  1.50  343.0  15.0  292.9  2.0  0  0.00  80.  1000.   2 NAD-SFC NoSubs
 9  8 31 243  7   10.3  0.234  0.310  0.012  103.  271.   -110.4  0.2930  0.52  0.37  2.10  352.0  15.0  293.2  2.0  0  0.00  78.  1000.   2 NAD-SFC NoSubs
 9  8 31 243  8   58.1  0.161  0.689  0.013  200.  156.     -6.4  0.2930  0.52  0.24  1.00  355.0  15.0  294.8  2.0  0  0.00  71.  1001.   2 NAD-SFC NoSubs
 9  8 31 243  9  101.5 -9.000 -9.000 -9.000  315. -999. -99999.0  0.2235  0.52  0.21  0.00    0.0  15.0  297.0  2.0  0  0.00  63.  1001.   2 NAD-SFC NoSubs
 9  8 31 243 10  135.8 -9.000 -9.000 -9.000  427. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  299.0  2.0  0  0.00  56.  1000.   2 NAD-SFC NoSubs
 9  8 31 243 11  159.5 -9.000 -9.000 -9.000  539. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  300.9  2.0  0  0.00  51.  1000.   2 NAD-SFC NoSubs
 9  8 31 243 12  171.5  0.120  1.453  0.008  639.   99.     -1.0  0.2720  0.52  0.19  0.50  302.0  15.0  302.6  2.0  0  0.00  45.   999.   2 NAD-SFC NoSubs
 9  8 31 243 13  171.9  0.120  1.564  0.010  794.   99.     -1.0  0.2720  0.52  0.19  0.50  328.0  15.0  304.1  2.0  0  0.00  40.   999.   2 NAD-SFC NoSubs
 9  8 31 243 14  160.4  0.235  1.613  0.010  932.  273.     -7.2  0.2930  0.52  0.19  1.50  350.0  15.0  305.2  2.0  0  0.00  37.   998.   2 NAD-SFC NoSubs
 9  8 31 243 15  137.3  0.289  1.570  0.010 1005.  373.    -15.6  0.2940  0.52  0.20  2.10    4.0  15.0  306.0  2.0  0  0.00  35.   998.   2 NAD-SFC NoSubs
 9  8 31 243 16  103.2  0.327  1.446  0.009 1043.  449.    -30.1  0.2940  0.52  0.21  2.60    6.0  15.0  306.1  2.0  0  0.00  36.   997.   2 NAD-SFC NoSubs
 9  8 31 243 17   59.8  0.266  1.213  0.009 1063.  332.    -28.1  0.2940  0.52  0.25  2.10    8.0  15.0  305.4  2.0  0  0.00  46.   997.   2 NAD-SFC NoSubs
 9  8 31 243 18   12.2  0.283  0.715  0.009 1067.  361.   -165.3  0.2940  0.52  0.39  2.60    7.0  15.0  304.8  2.0  0  0.00  50.   997.   2 NAD-SFC NoSubs
 9  8 31 243 19  -16.2  0.200 -9.000 -9.000 -999.  218.     44.1  0.2940  0.52  1.00  2.10    5.0  15.0  303.2  2.0  0  0.00  54.   998.   2 NAD-SFC NoSubs
 9  8 31 243 20   -3.8  0.100 -9.000 -9.000 -999.   81.     23.3  0.2720  0.52  1.00  1.00  301.0  15.0  302.0  2.0  0  0.00  58.   998.   2 NAD-SFC NoSubs
 9  8 31 243 21  -33.3  0.325 -9.000 -9.000 -999.  446.     92.1  0.2160  0.52  1.00  3.60  295.0  15.0  300.8  2.0  0  0.00  60.   998.   2 NAD-SFC NoSubs
 9  8 31 243 22  -38.5  0.373 -9.000 -9.000 -999.  546.    119.8  0.2160  0.52  1.00  4.10  296.0  15.0  298.4  2.0  0  0.00  62.   999.   2 NAD-SFC NoSubs
 9  8 31 243 23  -36.0  0.347 -9.000 -9.000 -999.  491.    103.3  0.2720  0.52  1.00  3.60  306.0  15.0  297.1  2.0  0  0.00  62.   999.   2 NAD-SFC NoSubs
 9  8 31 243 24  -41.4  0.397 -9.000 -9.000 -999.  600.    134.9  0.2720  0.52  1.00  4.10  320.0  15.0  296.0  2.0  0  0.00  66.  1000.   2 NAD-SFC NoSubs
 9  9  1 244  1  -42.5  0.406 -9.000 -9.000 -999.  620.    140.1  0.2930  0.52  1.00  4.10  340.0  15.0  294.4  2.0  0  0.00  79.  1000.   2 NAD-SFC NoSubs
 9  9  1 244  2  -31.9  0.303 -9.000 -9.000 -999.  407.     77.9  0.2930  0.52  1.00  3.10  344.0  15.0  293.4  2.0  0  0.00  86.  1000.   2 NAD-SFC NoSubs
 9  9  1 244  3  -24.8  0.246 -9.000 -9.000 -999.  294.     53.6  0.2720  0.52  1.00  2.60  328.0  15.0  292.8  2.0  0  0.00  88.  1001.   2 NAD-SFC NoSubs
 9  9  1 244  4  -15.9  0.195 -9.000 -9.000 -999.  208.     41.8  0.2720  0.52  1.00  2.10  308.0  15.0  292.2  2.0  0  0.00  88.  1001.   2 NAD-SFC NoSubs
 9  9  1 244  5  -15.9  0.195 -9.000 -9.000 -999.  207.     41.8  0.2720  0.52  1.00  2.10  314.0  15.0  291.8  2.0  0  0.00  88.  1001.   2 NAD-SFC NoSubs
 9  9  1 244  6   -3.6  0.097 -9.000 -9.000 -999.   77.     22.4  0.2160  0.52  1.00  1.00  298.0  15.0  291.5  2.0  0  0.00  88.  1002.   2 NAD-SFC NoSubs
 9  9  1 244  7    9.3  0.177  0.309  0.015  113.  179.    -53.4  0.2930  0.52  0.37  1.50  344.0  15.0  291.8  2.0  0  0.00  81.  1003.   2 NAD-SFC NoSubs
 9  9  1 244  8   57.1  0.104  0.685  0.015  201.   82.     -1.8  0.2930  0.52  0.24  0.50  336.0  15.0  293.2  2.0  0  0.00  74.  1003.   2 NAD-SFC NoSubs
 9  9  1 244  9  100.5 -9.000 -9.000 -9.000  267. -999. -99999.0  0.2235  0.52  0.21  0.00    0.0  15.0  295.8  2.0  0  0.00  65.  1002.   2 NAD-SFC NoSubs
 9  9  1 244 10  134.8 -9.000 -9.000 -9.000  336. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  298.0  2.0  0  0.00  56.  1002.   2 NAD-SFC NoSubs
 9  9  1 244 11  158.5 -9.000 -9.000 -9.000  435. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  300.0  2.0  0  0.00  51.  1002.   2 NAD-SFC NoSubs
 9  9  1 244 12  170.6 -9.000 -9.000 -9.000  640. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  302.0  2.0  0  0.00  46.  1001.   2 NAD-SFC NoSubs
 9  9  1 244 13  171.0 -9.000 -9.000 -9.000  762. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  303.8  2.0  0  0.00  42.  1000.   2 NAD-SFC NoSubs
 9  9  1 244 14  159.5  0.182  1.565  0.010  857.  186.     -3.4  0.2930  0.52  0.19  1.00  333.0  15.0  304.9  2.0  0  0.00  39.   999.   2 NAD-SFC NoSubs
 9  9  1 244 15  136.1  0.230  1.526  0.010  931.  265.     -8.0  0.2930  0.52  0.20  1.50  348.0  15.0  305.4  2.0  0  0.00  38.   998.   2 NAD-SFC NoSubs
 9  9  1 244 16  101.9  0.326  1.410  0.009  981.  447.    -30.4  0.2930  0.52  0.21  2.60  348.0  15.0  305.5  2.0  0  0.00  40.   998.   2 NAD-SFC NoSubs
 9  9  1 244 17   58.5  0.312  1.182  0.009 1005.  418.    -46.2  0.2930  0.52  0.25  2.60  358.0  15.0  304.9  2.0  0  0.00  50.   998.   2 NAD-SFC NoSubs
 9  9  1 244 18   10.9 -9.000 -9.000 -9.000 1009. -999. -99999.0  0.2235  0.52  0.39  0.00    0.0  15.0  304.1  2.0  0  0.00  54.   998.   2 NAD-SFC NoSubs
 9  9  1 244 19  -25.3  0.252 -9.000 -9.000 -999.  304.     56.4  0.2940  0.52  1.00  2.60    2.0  15.0  302.8  2.0  0  0.00  56.   999.   2 NAD-SFC NoSubs
 9  9  1 244 20   -3.8  0.100 -9.000 -9.000 -999.   97.     23.3  0.2720  0.52  1.00  1.00  324.0  15.0  301.8  2.0  0  0.00  59.   999.   2 NAD-SFC NoSubs
 9  9  1 244 21   -1.5  0.080 -9.000 -9.000 -999.   54.     31.1  0.2160  0.52  1.00  0.50  279.0  15.0  300.6  2.0  0  0.00  64.   999.   2 NAD-SFC NoSubs
 9  9  1 244 22   -1.6  0.082 -9.000 -9.000 -999.   57.     31.6  0.2720  0.52  1.00  0.50  303.0  15.0  299.8  2.0  0  0.00  67.   999.   2 NAD-SFC NoSubs
 9  9  1 244 23   -3.9  0.102 -9.000 -9.000 -999.   78.     23.7  0.2930  0.52  1.00  1.00  342.0  15.0  299.0  2.0  0  0.00  69.   999.   2 NAD-SFC NoSubs
 9  9  1 244 24  -16.3  0.200 -9.000 -9.000 -999.  215.     43.7  0.2930  0.52  1.00  2.10  336.0  15.0  298.4  2.0  0  0.00  71.   999.   2 NAD-SFC NoSubs
 9  9  2 245  1  -25.5  0.252 -9.000 -9.000 -999.  303.     55.8  0.2930  0.52  1.00  2.60  336.0  15.0  297.8  2.0  0  0.00  73.  1000.   2 NAD-SFC NoSubs
 9  9  2 245  2  -31.5  0.303 -9.000 -9.000 -999.  401.     79.0  0.2930  0.52  1.00  3.10  330.0  15.0  297.2  2.0  0  0.00  74.  1000.   2 NAD-SFC NoSubs
 9  9  2 245  3  -24.6  0.246 -9.000 -9.000 -999.  294.     54.0  0.2720  0.52  1.00  2.60  320.0  15.0  296.6  2.0  0  0.00  75.  1000.   2 NAD-SFC NoSubs
 9  9  2 245  4  -15.8  0.195 -9.000 -9.000 -999.  208.     42.2  0.2720  0.52  1.00  2.10  306.0  15.0  296.1  2.0  0  0.00  76.  1000.   2 NAD-SFC NoSubs
 9  9  2 245  5  -15.8  0.195 -9.000 -9.000 -999.  207.     42.1  0.2720  0.52  1.00  2.10  304.0  15.0  295.6  2.0  0  0.00  78.  1000.   2 NAD-SFC NoSubs
 9  9  2 245  6   -7.9  0.137 -9.000 -9.000 -999.  122.     28.9  0.2720  0.52  1.00  1.50  300.0  15.0  295.2  2.0  0  0.00  79.  1001.   2 NAD-SFC NoSubs
 9  9  2 245  7   10.1  0.175  0.264  0.010   65.  176.    -47.8  0.2720  0.52  0.38  1.50  315.0  15.0  295.5  2.0  0  0.00  78.  1001.   2 NAD-SFC NoSubs
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 9  9  2 245  8   58.0  0.206  0.642  0.009  163.  224.    -13.4  0.2720  0.52  0.25  1.50  320.0  15.0  297.2  2.0   0  0.00  68.  1001.   2 NAD-SFC NoSubs
 9  9  2 245  9  101.3  0.111  0.938  0.009  291.   93.     -1.2  0.2720  0.52  0.21  0.50  304.0  15.0  299.2  2.0   0  0.00  60.  1001.   2 NAD-SFC NoSubs
 9  9  2 245 10  136.0 -9.000 -9.000 -9.000  453. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  301.9  2.0   0  0.00  50.  1001.   2 NAD-SFC NoSubs
 9  9  2 245 11  159.7 -9.000 -9.000 -9.000  639. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  303.8  2.0   0  0.00  44.  1000.   2 NAD-SFC NoSubs
 9  9  2 245 12  171.6 -9.000 -9.000 -9.000  748. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  305.2  2.0   0  0.00  39.   999.   2 NAD-SFC NoSubs
 9  9  2 245 13  172.0 -9.000 -9.000 -9.000  839. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  306.8  2.0   0  0.00  36.   999.   2 NAD-SFC NoSubs
 9  9  2 245 14  160.3  0.121  1.603  0.007  916.  100.     -1.0  0.2940  0.52  0.19  0.50    4.0  15.0  307.8  2.0   0  0.00  33.   998.   2 NAD-SFC NoSubs
 9  9  2 245 15  136.9  0.289  1.556  0.006  980.  372.    -15.6  0.2940  0.52  0.20  2.10   14.0  15.0  308.2  2.0   0  0.00  33.   997.   2 NAD-SFC NoSubs
 9  9  2 245 16  102.1  0.373  1.442  0.005 1045.  547.    -45.2  0.2940  0.52  0.21  3.10   22.0  15.0  307.5  2.0   0  0.00  38.   997.   2 NAD-SFC NoSubs
 9  9  2 245 17   58.3  0.358  1.209  0.005 1078.  514.    -69.7  0.2940  0.52  0.25  3.10   13.0  15.0  306.6  2.0   0  0.00  49.   997.   2 NAD-SFC NoSubs
 9  9  2 245 18   10.7 -9.000 -9.000 -9.000 1082. -999. -99999.0  0.2235  0.52  0.40  0.00    0.0  15.0  305.8  2.0   0  0.00  51.   997.   2 NAD-SFC NoSubs
 9  9  2 245 19  -24.2  0.246 -9.000 -9.000  -999.  293.    54.9  0.2720  0.52  1.00  2.60  328.0  15.0  304.8  2.0   0  0.00  51.   998.   2 NAD-SFC NoSubs
 9  9  2 245 20  -28.2  0.278 -9.000 -9.000  -999.  352.    68.0  0.2160  0.52  1.00  3.10  276.0  15.0  303.6  2.0   0  0.00  54.   998.   2 NAD-SFC NoSubs
 9  9  2 245 21  -40.5  0.398 -9.000 -9.000  -999.  603.   138.4  0.1750  0.52  1.00  4.60  266.0  15.0  302.2  2.0   0  0.00  57.   998.   2 NAD-SFC NoSubs
 9  9  2 245 22  -33.4  0.325 -9.000 -9.000  -999.  449.    92.0  0.2160  0.52  1.00  3.60  289.0  15.0  300.5  2.0   0  0.00  61.   999.   2 NAD-SFC NoSubs
 9  9  2 245 23  -35.7  0.347 -9.000 -9.000  -999.  490.   104.2  0.2720  0.52  1.00  3.60  315.0  15.0  299.8  2.0   0  0.00  62.   999.   2 NAD-SFC NoSubs
 9  9  2 245 24  -33.5  0.325 -9.000 -9.000  -999.  446.    91.5  0.2160  0.52  1.00  3.60  297.0  15.0  298.9  2.0   0  0.00  63.   999.   2 NAD-SFC NoSubs
 9  9  3 246  1  -28.8  0.278 -9.000 -9.000  -999.  353.    66.7  0.2160  0.52  1.00  3.10  296.0  15.0  298.2  2.0   0  0.00  66.  1000.   2 NAD-SFC NoSubs
 9  9  3 246  2  -22.1  0.231 -9.000 -9.000  -999.  267.    49.5  0.2160  0.52  1.00  2.60  298.0  15.0  297.5  2.0   0  0.00  70.  1000.   2 NAD-SFC NoSubs
 9  9  3 246  3  -15.8  0.195 -9.000 -9.000  -999.  208.    42.2  0.2720  0.52  1.00  2.10  300.0  15.0  296.8  2.0   0  0.00  74.  1000.   2 NAD-SFC NoSubs
 9  9  3 246  4  -14.2  0.183 -9.000 -9.000  -999.  188.    38.5  0.2160  0.52  1.00  2.10  289.0  15.0  296.2  2.0   0  0.00  76.  1000.   2 NAD-SFC NoSubs
 9  9  3 246  5   -3.6  0.096 -9.000 -9.000  -999.   75.    22.4  0.2160  0.52  1.00  1.00  281.0  15.0  295.9  2.0   0  0.00  78.  1000.   2 NAD-SFC NoSubs
 9  9  3 246  6    3.0 -9.000 -9.000 -9.000  -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  295.4  2.0   0  0.00  80.  1001.   2 NAD-SFC NoSubs
 9  9  3 246  7    9.6  0.083  0.301  0.014   101.   57.    -5.3  0.2930  0.52  0.38  0.50  345.0  15.0  295.5  2.0   0  0.00  81.  1001.   2 NAD-SFC NoSubs
 9  9  3 246  8   57.4 -9.000 -9.000 -9.000  185. -999. -99999.0  0.2235  0.52  0.25  0.00    0.0  15.0  297.2  2.0   0  0.00  72.  1001.   2 NAD-SFC NoSubs
 9  9  3 246  9  100.9 -9.000 -9.000 -9.000  286. -999. -99999.0  0.2235  0.52  0.21  0.00    0.0  15.0  299.4  2.0   0  0.00  63.  1001.   2 NAD-SFC NoSubs
 9  9  3 246 10  135.2 -9.000 -9.000 -9.000  383. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  301.4  2.0   0  0.00  54.  1001.   2 NAD-SFC NoSubs
 9  9  3 246 11  158.8 -9.000 -9.000 -9.000  558. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  303.1  2.0   0  0.00  50.  1001.   2 NAD-SFC NoSubs
 9  9  3 246 12  170.7 -9.000 -9.000 -9.000  724. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  304.6  2.0   0  0.00  45.  1000.   2 NAD-SFC NoSubs
 9  9  3 246 13  170.9 -9.000 -9.000 -9.000  888. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  306.0  2.0   0  0.00  41.   999.   2 NAD-SFC NoSubs
 9  9  3 246 14  159.1  0.182  1.649  0.008 1005.  186.     -3.4  0.2930  0.52  0.19  1.00  355.0  15.0  306.9  2.0   0  0.00  39.   998.   2 NAD-SFC NoSubs
 9  9  3 246 15  135.5 -9.000 -9.000 -9.000 1077. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  307.4  2.0   0  0.00  38.   997.   2 NAD-SFC NoSubs
 9  9  3 246 16  101.0  0.373  1.473  0.008 1126.  546.    -45.6  0.2940  0.52  0.21  3.10    7.0  15.0  307.2  2.0   0  0.00  40.   997.   2 NAD-SFC NoSubs
 9  9  3 246 17   57.3  0.312  1.229  0.007 1153.  420.    -46.9  0.2940  0.52  0.25  2.60    6.0  15.0  306.8  2.0   0  0.00  50.   997.   2 NAD-SFC NoSubs
 9  9  3 246 18    9.9  0.328  0.685  0.007 1156.  450.   -316.8  0.2930  0.52  0.40  3.10  356.0  15.0  306.0  2.0   0  0.00  52.   997.   2 NAD-SFC NoSubs
 9  9  3 246 19  -35.1  0.347 -9.000 -9.000  -999.  490.    106.1  0.2720  0.52  1.00  3.60  325.0  15.0  304.8  2.0   0  0.00  55.   998.   2 NAD-SFC NoSubs
 9  9  3 246 20  -40.3  0.397 -9.000 -9.000  -999.  601.    138.4  0.2720  0.52  1.00  4.10  312.0  15.0  303.4  2.0   0  0.00  58.   998.   2 NAD-SFC NoSubs
 9  9  3 246 21  -40.6  0.397 -9.000 -9.000  -999.  601.    137.5  0.2720  0.52  1.00  4.10  322.0  15.0  301.4  2.0   0  0.00  67.   999.   2 NAD-SFC NoSubs
 9  9  3 246 22  -36.4  0.355 -9.000 -9.000  -999.  508.    109.1  0.2930  0.52  1.00  3.60  330.0  15.0  300.2  2.0   0  0.00  71.   999.   2 NAD-SFC NoSubs
 9  9  3 246 23  -36.6  0.355 -9.000 -9.000  -999.  507.    108.7  0.2930  0.52  1.00  3.60  338.0  15.0  299.1  2.0   0  0.00  73.  1000.   2 NAD-SFC NoSubs
 9  9  3 246 24  -35.8  0.355 -9.000 -9.000  -999.  507.    111.2  0.2930  0.52  1.00  3.60  353.0  15.0  297.9  2.0   0  0.00  74.  1000.   3 NAD-SFC NoSubs
 9  9  4 247  1  -30.7  0.304 -9.000 -9.000  -999.  403.     81.2  0.2940  0.52  1.00  3.10    3.0  15.0  297.0  2.0   0  0.00  74.  1000.   3 NAD-SFC NoSubs
 9  9  4 247  2  -25.3  0.252 -9.000 -9.000  -999.  305.     56.6  0.2940  0.52  1.00  2.60   12.0  15.0  296.4  2.0   0  0.00  74.  1001.   3 NAD-SFC NoSubs
 9  9  4 247  3  -16.2  0.200 -9.000 -9.000  -999.  216.     44.1  0.2940  0.52  1.00  2.10    2.0  15.0  295.8  2.0   0  0.00  74.  1001.   3 NAD-SFC NoSubs
 9  9  4 247  4   -8.1  0.140 -9.000 -9.000  -999.  126.     30.1  0.2930  0.52  1.00  1.50  341.0  15.0  295.2  2.0   0  0.00  74.  1001.   3 NAD-SFC NoSubs
 9  9  4 247  5   -3.9  0.101 -9.000 -9.000  -999.   77.     23.7  0.2930  0.52  1.00  1.00  344.0  15.0  294.6  2.0   0  0.00  75.  1001.   3 NAD-SFC NoSubs
 9  9  4 247  6   -3.9  0.101 -9.000 -9.000  -999.   77.     23.7  0.2930  0.52  1.00  1.00  347.0  15.0  294.0  2.0   0  0.00  77.  1001.   3 NAD-SFC NoSubs
 9  9  4 247  7    9.9  0.233  0.314  0.010   112.  270.   -114.8  0.2930  0.52  0.38  2.10  346.0  15.0  293.9  2.0   0  0.00  72.  1001.   3 NAD-SFC NoSubs
 9  9  4 247  8   57.0  0.160  0.709  0.010   223.  155.     -6.4  0.2930  0.52  0.25  1.00  349.0  15.0  295.0  2.0   0  0.00  67.  1001.   3 NAD-SFC NoSubs
 9  9  4 247  9   99.9 -9.000 -9.000 -9.000   339. -999. -99999.0  0.2235  0.52  0.21  0.00    0.0  15.0  297.0  2.0   0  0.00  60.  1001.   3 NAD-SFC NoSubs
 9  9  4 247 10  133.7  0.115  1.211  0.008   474.   94.     -1.0  0.2720  0.52  0.20  0.50  302.0  15.0  298.6  2.0   0  0.00  55.  1000.   3 NAD-SFC NoSubs
 9  9  4 247 11  156.8  0.118  1.391  0.007   612.   97.     -1.0  0.2720  0.52  0.19  0.50  300.0  15.0  300.2  2.0   0  0.00  51.  1000.   3 NAD-SFC NoSubs
 9  9  4 247 12  168.4  0.180  1.527  0.007   754.  183.     -3.1  0.2720  0.52  0.19  1.00  309.0  15.0  301.6  2.0   0  0.00  48.   999.   3 NAD-SFC NoSubs
 9  9  4 247 13  168.3  0.295  1.610  0.007   884.  384.    -13.5  0.2930  0.52  0.19  2.10  331.0  15.0  302.8  2.0   0  0.00  45.   998.   3 NAD-SFC NoSubs
 9  9  4 247 14  156.5  0.386  1.631  0.008   989.  575.    -32.7  0.2930  0.52  0.19  3.10  345.0  15.0  303.6  2.0   0  0.00  43.   998.   2 NAD-SFC NoSubs
 9  9  4 247 15  132.6  0.427  1.583  0.008  1065.  668.    -52.1  0.2930  0.52  0.20  3.60  355.0  15.0  303.8  2.0   0  0.00  43.   997.   2 NAD-SFC NoSubs
 9  9  4 247 16   98.0  0.463  1.454  0.008  1117.  757.    -90.3  0.2940  0.52  0.21  4.10    3.0  15.0  303.6  2.0   0  0.00  44.   997.   2 NAD-SFC NoSubs
 9  9  4 247 17   54.2  0.356  1.204  0.008  1144.  518.    -73.9  0.2940  0.52  0.26  3.10    2.0  15.0  303.0  2.0   0  0.00  55.   997.   2 NAD-SFC NoSubs
 9  9  4 247 18    6.8  0.373  0.602  0.008  1145.  547.   -682.7  0.2930  0.52  0.41  3.60  354.0  15.0  302.0  2.0   0  0.00  57.   998.   2 NAD-SFC NoSubs
 9  9  4 247 19  -36.3  0.355 -9.000 -9.000  -999.  507.    109.2  0.2930  0.52  1.00  3.60  334.0  15.0  300.4  2.0   0  0.00  60.   998.   2 NAD-SFC NoSubs
 9  9  4 247 20  -35.7  0.355 -9.000 -9.000  -999.  507.    111.5  0.2930  0.52  1.00  3.60  334.0  15.0  298.8  2.0   0  0.00  63.   999.   3 NAD-SFC NoSubs
 9  9  4 247 21  -35.8  0.355 -9.000 -9.000  -999.  507.    111.0  0.2930  0.52  1.00  3.60  331.0  15.0  297.5  2.0   0  0.00  64.   999.   3 NAD-SFC NoSubs
 9  9  4 247 22  -36.0  0.355 -9.000 -9.000  -999.  507.    110.5  0.2930  0.52  1.00  3.60  345.0  15.0  296.2  2.0   0  0.00  67.  1000.   3 NAD-SFC NoSubs
 9  9  4 247 23  -36.1  0.355 -9.000 -9.000  -999.  507.    110.0  0.2930  0.52  1.00  3.60  337.0  15.0  295.0  2.0   0  0.00  71.  1000.   3 NAD-SFC NoSubs
 9  9  4 247 24  -36.3  0.355 -9.000 -9.000  -999.  507.    109.6  0.2930  0.52  1.00  3.60  337.0  15.0  293.9  2.0   0  0.00  73.  1001.   3 NAD-SFC NoSubs
 9  9  5 248  1  -31.1  0.303 -9.000 -9.000  -999.  402.     79.9  0.2930  0.52  1.00  3.10  354.0  15.0  293.0  2.0   0  0.00  75.  1001.   3 NAD-SFC NoSubs
 9  9  5 248  2  -31.2  0.303 -9.000 -9.000  -999.  401.     79.7  0.2930  0.52  1.00  3.10  355.0  15.0  292.2  2.0   0  0.00  77.  1001.   3 NAD-SFC NoSubs
 9  9  5 248  3  -25.4  0.252 -9.000 -9.000  -999.  304.     55.9  0.2930  0.52  1.00  2.60  348.0  15.0  291.4  2.0   0  0.00  79.  1001.   3 NAD-SFC NoSubs
 9  9  5 248  4  -25.5  0.252 -9.000 -9.000  -999.  303.     55.9  0.2930  0.52  1.00  2.60  347.0  15.0  290.8  2.0   0  0.00  80.  1002.   3 NAD-SFC NoSubs
 9  9  5 248  5  -16.4  0.200 -9.000 -9.000  -999.  215.     43.6  0.2930  0.52  1.00  2.10  355.0  15.0  290.2  2.0   0  0.00  82.  1002.   3 NAD-SFC NoSubs
 9  9  5 248  6   -8.2  0.140 -9.000 -9.000  -999.  126.     29.8  0.2930  0.52  1.00  1.50  353.0  15.0  289.8  2.0   0  0.00  83.  1003.   3 NAD-SFC NoSubs
 9  9  5 248  7    6.7  0.229  0.271  0.010   106.  263.   -159.9  0.2940  0.52  0.38  2.10    2.0  15.0  289.9  2.0   0  0.00  79.  1003.   2 NAD-SFC NoSubs
 9  9  5 248  8   54.2  0.104  0.683  0.011   210.   91.     -1.8  0.2930  0.52  0.25  0.50  353.0  15.0  291.2  2.0   0  0.00  73.  1003.   2 NAD-SFC NoSubs
 9  9  5 248  9   97.5 -9.000 -9.000 -9.000   318. -999. -99999.0  0.2235  0.52  0.21  0.00    0.0  15.0  293.5  2.0   0  0.00  62.  1003.   2 NAD-SFC NoSubs
 9  9  5 248 10  131.5 -9.000 -9.000 -9.000   442. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  295.2  2.0   0  0.00  56.  1003.   2 NAD-SFC NoSubs
 9  9  5 248 11  154.9 -9.000 -9.000 -9.000   593. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  297.1  2.0   0  0.00  51.  1003.   2 NAD-SFC NoSubs
 9  9  5 248 12  166.6 -9.000 -9.000 -9.000   730. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  298.8  2.0   0  0.00  47.  1002.   2 NAD-SFC NoSubs
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 9  9  5 248 13  166.4 -9.000 -9.000 -9.000  853. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 300.1  2.0   0  0.00  44.  1001.   2 NAD-SFC NoSubs
 9  9  5 248 14  154.4  0.181  1.603  0.010  953.  185.     -3.4 0.2930  0.52  0.19  1.00 340.0  15.0 301.1  2.0   0  0.00  40.  1000.   2 NAD-SFC NoSubs
 9  9  5 248 15  130.7  0.229  1.548  0.010 1014.  263.     -8.2 0.2940  0.52  0.20  1.50   5.0  15.0 301.8  2.0   0  0.00  37.  1000.   2 NAD-SFC NoSubs
 9  9  5 248 16   96.0 -9.000 -9.000 -9.000 1053. -999. -99999.0 0.2235  0.52  0.21  0.00   0.0  15.0 301.8  2.0   0  0.00  37.  1000.   2 NAD-SFC NoSubs
 9  9  5 248 17   52.1  0.355  1.161  0.010 1072.  507.    -76.4 0.2940  0.52  0.26  3.10   8.0  15.0 300.9  2.0   0  0.00  49.   999.   2 NAD-SFC NoSubs
 9  9  5 248 18    4.5  0.371  0.513  0.010 1071.  543.  -1017.2 0.2940  0.52  0.42  3.60  11.0  15.0 299.2  2.0   0  0.00  56.  1000.   2 NAD-SFC NoSubs
 9  9  5 248 19  -13.2 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 298.0  2.0   0  0.00  60.  1000.   2 NAD-SFC NoSubs
 9  9  5 248 20  -30.8  0.297 -9.000 -9.000 -999.  388.     75.5 0.2720  0.52  1.00  3.10 327.0  15.0 297.0  2.0   0  0.00  61.  1000.   2 NAD-SFC NoSubs
 9  9  5 248 21  -36.2  0.347 -9.000 -9.000 -999.  490.    102.8 0.2720  0.52  1.00  3.60 310.0  15.0 295.8  2.0   0  0.00  63.  1000.   2 NAD-SFC NoSubs
 9  9  5 248 22  -34.1  0.325 -9.000 -9.000 -999.  446.     90.1 0.2160  0.52  1.00  3.60 286.0  15.0 294.5  2.0   0  0.00  69.  1001.   2 NAD-SFC NoSubs
 9  9  5 248 23  -29.2  0.278 -9.000 -9.000 -999.  353.     65.6 0.2160  0.52  1.00  3.10 284.0  15.0 293.6  2.0   0  0.00  75.  1001.   2 NAD-SFC NoSubs
 9  9  5 248 24  -22.3  0.231 -9.000 -9.000 -999.  266.     49.1 0.2160  0.52  1.00  2.60 294.0  15.0 293.4  2.0   0  0.00  77.  1001.   2 NAD-SFC NoSubs
 9  9  6 249  1  -15.9  0.195 -9.000 -9.000 -999.  208.     41.9 0.2720  0.52  1.00  2.10 311.0  15.0 293.2  2.0   0  0.00  77.  1001.   2 NAD-SFC NoSubs
 9  9  6 249  2  -24.8  0.246 -9.000 -9.000 -999.  293.     53.7 0.2720  0.52  1.00  2.60 318.0  15.0 293.1  2.0   0  0.00  77.  1001.   2 NAD-SFC NoSubs
 9  9  6 249  3  -24.8  0.246 -9.000 -9.000 -999.  293.     53.6 0.2720  0.52  1.00  2.60 320.0  15.0 292.8  2.0   0  0.00  78.  1002.   2 NAD-SFC NoSubs
 9  9  6 249  4  -16.5  0.200 -9.000 -9.000 -999.  215.     43.1 0.2930  0.52  1.00  2.10 332.0  15.0 292.4  2.0   0  0.00  81.  1002.   2 NAD-SFC NoSubs
 9  9  6 249  5   -8.3  0.140 -9.000 -9.000 -999.  126.     29.5 0.2930  0.52  1.00  1.50 345.0  15.0 292.1  2.0   0  0.00  85.  1002.   2 NAD-SFC NoSubs
 9  9  6 249  6   -1.7  0.084 -9.000 -9.000 -999.   59.     32.0 0.2930  0.52  1.00  0.50 330.0  15.0 291.9  2.0   0  0.00  87.  1003.   2 NAD-SFC NoSubs
 9  9  6 249  7    6.7 -9.000 -9.000 -9.000   80. -999. -99999.0 0.2235  0.52  0.39  0.00   0.0  15.0 291.8  2.0   0  0.00  89.  1004.   2 NAD-SFC NoSubs
 9  9  6 249  8   54.2  0.159  0.708  0.006  234.  152.     -6.6 0.2930  0.52  0.25  1.00 352.0  15.0 293.0  2.0   0  0.00  85.  1004.   2 NAD-SFC NoSubs
 9  9  6 249  9   97.2  0.112  1.025  0.006  396.   90.     -1.3 0.2930  0.52  0.21  0.50 339.0  15.0 294.2  2.0   0  0.00  78.  1004.   2 NAD-SFC NoSubs
 9  9  6 249 10  131.1 -9.000 -9.000 -9.000  610. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 295.6  2.0   0  0.00  72.  1004.   2 NAD-SFC NoSubs
 9  9  6 249 11  154.3 -9.000 -9.000 -9.000  772. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 297.1  2.0   0  0.00  65.  1004.   2 NAD-SFC NoSubs
 9  9  6 249 12  165.9 -9.000 -9.000 -9.000  910. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 298.6  2.0   0  0.00  56.  1003.   2 NAD-SFC NoSubs
 9  9  6 249 13  165.4  0.121  1.668  0.010 1005.  101.     -1.0 0.2930  0.52  0.19  0.50 338.0  15.0 299.6  2.0   0  0.00  51.  1002.   3 NAD-SFC NoSubs
 9  9  6 249 14  153.3 -9.000 -9.000 -9.000 1064. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 300.2  2.0   0  0.00  50.  1001.   3 NAD-SFC NoSubs
 9  9  6 249 15  129.5  0.287  1.591  0.009 1111.  369.    -16.3 0.2940  0.52  0.20  2.10   6.0  15.0 300.6  2.0   0  0.00  49.  1001.   3 NAD-SFC NoSubs
 9  9  6 249 16   95.0  0.416  1.450  0.009 1144.  645.    -67.7 0.2940  0.52  0.21  3.60  22.0  15.0 300.5  2.0   0  0.00  51.  1000.   3 NAD-SFC NoSubs
 9  9  6 249 17   51.6  0.355  1.188  0.009 1161.  510.    -77.1 0.2940  0.52  0.26  3.10  17.0  15.0 300.0  2.0   0  0.00  61.  1000.   3 NAD-SFC NoSubs
 9  9  6 249 18    4.7  0.372  0.536  0.009 1161.  543.   -969.2 0.2940  0.52  0.42  3.60  14.0  15.0 298.8  2.0   0  0.00  68.  1001.   3 NAD-SFC NoSubs
 9  9  6 249 19  -14.2 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 297.1  2.0   0  0.00  74.  1001.   4 NAD-SFC NoSubs
 9  9  6 249 20  -33.1  0.355 -9.000 -9.000 -999.  508.    120.9 0.2930  0.52  1.00  3.60 354.0  15.0 295.9  2.0   0  0.00  79.  1002.   5 NAD-SFC NoSubs
 9  9  6 249 21  -24.6  0.305 -9.000 -9.000 -999.  406.    102.9 0.2930  0.52  1.00  3.10 345.0  15.0 295.0  2.0   0  0.00  81.  1002.   7 NAD-SFC NoSubs
 9  9  6 249 22  -22.3  0.306 -9.000 -9.000 -999.  405.    114.5 0.2930  0.52  1.00  3.10 341.0  15.0 294.4  2.0   0  0.00  82.  1002.   8 NAD-SFC NoSubs
 9  9  6 249 23  -20.5  0.254 -9.000 -9.000 -999.  308.     71.0 0.2930  0.52  1.00  2.60 355.0  15.0 294.1  2.0   0  0.00  81.  1002.   7 NAD-SFC NoSubs
 9  9  6 249 24  -15.6  0.201 -9.000 -9.000 -999.  217.     46.2 0.2930  0.52  1.00  2.10 344.0  15.0 293.6  2.0   0  0.00  82.  1002.   5 NAD-SFC NoSubs
 9  9  7 250  1  -30.1  0.304 -9.000 -9.000 -999.  401.     83.1 0.2930  0.52  1.00  3.10 338.0  15.0 293.0  2.0   0  0.00  83.  1002.   4 NAD-SFC NoSubs
 9  9  7 250  2  -31.3  0.303 -9.000 -9.000 -999.  401.     79.6 0.2930  0.52  1.00  3.10 337.0  15.0 292.0  2.0   0  0.00  85.  1003.   3 NAD-SFC NoSubs
 9  9  7 250  3  -31.4  0.303 -9.000 -9.000 -999.  401.     79.4 0.2930  0.52  1.00  3.10 353.0  15.0 291.2  2.0   0  0.00  85.  1003.   3 NAD-SFC NoSubs
 9  9  7 250  4  -25.5  0.252 -9.000 -9.000 -999.  304.     55.8 0.2930  0.52  1.00  2.60 352.0  15.0 290.4  2.0   0  0.00  85.  1003.   3 NAD-SFC NoSubs
 9  9  7 250  5  -25.6  0.252 -9.000 -9.000 -999.  303.     55.8 0.2930  0.52  1.00  2.60 345.0  15.0 289.8  2.0   0  0.00  85.  1003.   3 NAD-SFC NoSubs
 9  9  7 250  6  -16.4  0.200 -9.000 -9.000 -999.  215.     43.5 0.2930  0.52  1.00  2.10 344.0  15.0 289.2  2.0   0  0.00  86.  1004.   3 NAD-SFC NoSubs
 9  9  7 250  7    7.0  0.276  0.265  0.005   94.  349.   -270.5 0.2930  0.52  0.39  2.60 343.0  15.0 289.6  2.0   0  0.00  83.  1004.   3 NAD-SFC NoSubs
 9  9  7 250  8   53.0  0.207  0.688  0.006  220.  228.    -15.0 0.2930  0.52  0.25  1.50 343.0  15.0 291.0  2.0   0  0.00  76.  1004.   2 NAD-SFC NoSubs
 9  9  7 250  9   96.2 -9.000 -9.000 -9.000  377. -999. -99999.0 0.2235  0.52  0.21  0.00   0.0  15.0 292.8  2.0   0  0.00  67.  1004.   2 NAD-SFC NoSubs
 9  9  7 250 10  130.1 -9.000 -9.000 -9.000  639. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 294.4  2.0   0  0.00  60.  1004.   2 NAD-SFC NoSubs
 9  9  7 250 11  153.3 -9.000 -9.000 -9.000  819. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 296.0  2.0   0  0.00  55.  1003.   2 NAD-SFC NoSubs
 9  9  7 250 12  164.6 -9.000 -9.000 -9.000  973. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 297.2  2.0   0  0.00  50.  1002.   2 NAD-SFC NoSubs
 9  9  7 250 13  164.1 -9.000 -9.000 -9.000 1040. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 298.2  2.0   0  0.00  47.  1001.   2 NAD-SFC NoSubs
 9  9  7 250 14  151.8  0.120  1.671  0.011 1099.   99.     -1.0 0.2930  0.52  0.19  0.50 345.0  15.0 299.0  2.0   0  0.00  45.  1000.   2 NAD-SFC NoSubs
 9  9  7 250 15  127.8  0.229  1.601  0.011 1146.  262.     -8.3 0.2930  0.52  0.20  1.50 355.0  15.0 299.5  2.0   0  0.00  45.   999.   2 NAD-SFC NoSubs
 9  9  7 250 16   93.0  0.324  1.454  0.011 1178.  442.    -32.5 0.2930  0.52  0.21  2.60 355.0  15.0 299.8  2.0   0  0.00  43.   999.   2 NAD-SFC NoSubs
 9  9  7 250 17   49.2 -9.000 -9.000 -9.000 1195. -999. -99999.0 0.2235  0.52  0.26  0.00   0.0  15.0 299.5  2.0   0  0.00  51.   999.   2 NAD-SFC NoSubs
 9  9  7 250 18    2.3 -9.000 -9.000 -9.000 1195. -999. -99999.0 0.2235  0.52  0.43  0.00   0.0  15.0 298.8  2.0   0  0.00  54.   999.   2 NAD-SFC NoSubs
 9  9  7 250 19  -36.7  0.354 -9.000 -9.000 -999.  507.    108.1 0.2930  0.52  1.00  3.60 358.0  15.0 297.8  2.0   0  0.00  56.   999.   2 NAD-SFC NoSubs
 9  9  7 250 20  -30.7  0.303 -9.000 -9.000 -999.  402.     81.0 0.2930  0.52  1.00  3.10 349.0  15.0 296.8  2.0   0  0.00  57.   999.   3 NAD-SFC NoSubs
 9  9  7 250 21  -24.3  0.246 -9.000 -9.000 -999.  295.     54.7 0.2720  0.52  1.00  2.60 326.0  15.0 295.6  2.0   0  0.00  59.   999.   3 NAD-SFC NoSubs
 9  9  7 250 22  -15.6  0.196 -9.000 -9.000 -999.  208.     42.7 0.2720  0.52  1.00  2.10 305.0  15.0 294.8  2.0   0  0.00  61.   999.   3 NAD-SFC NoSubs
 9  9  7 250 23  -14.1  0.183 -9.000 -9.000 -999.  188.     38.9 0.2160  0.52  1.00  2.10 288.0  15.0 293.9  2.0   0  0.00  63.   999.   3 NAD-SFC NoSubs
 9  9  7 250 24  -15.7  0.196 -9.000 -9.000 -999.  208.     42.5 0.2720  0.52  1.00  2.10 307.0  15.0 293.0  2.0   0  0.00  65.   999.   3 NAD-SFC NoSubs
 9  9  8 251  1  -24.5  0.246 -9.000 -9.000 -999.  293.     54.4 0.2720  0.52  1.00  2.60 329.0  15.0 292.2  2.0   0  0.00  68.   999.   3 NAD-SFC NoSubs
 9  9  8 251  2  -37.5  0.354 -9.000 -9.000 -999.  506.    105.8 0.2930  0.52  1.00  3.60 339.0  15.0 291.4  2.0   0  0.00  73.   999.   2 NAD-SFC NoSubs
 9  9  8 251  3  -32.1  0.303 -9.000 -9.000 -999.  402.     77.1 0.2930  0.52  1.00  3.10 346.0  15.0 290.5  2.0   0  0.00  78.   999.   2 NAD-SFC NoSubs
 9  9  8 251  4  -32.2  0.303 -9.000 -9.000 -999.  400.     76.9 0.2930  0.52  1.00  3.10 357.0  15.0 289.9  2.0   0  0.00  81.  1000.   2 NAD-SFC NoSubs
 9  9  8 251  5  -25.8  0.251 -9.000 -9.000 -999.  304.     54.9 0.2930  0.52  1.00  2.60 350.0  15.0 289.5  2.0   0  0.00  83.  1000.   2 NAD-SFC NoSubs
 9  9  8 251  6   -8.3  0.140 -9.000 -9.000 -999.  132.     29.4 0.2930  0.52  1.00  1.50 349.0  15.0 289.1  2.0   0  0.00  85.  1000.   2 NAD-SFC NoSubs
 9  9  8 251  7    5.0  0.170  0.203  0.008   59.  168.    -87.3 0.2930  0.52  0.39  1.50 346.0  15.0 289.4  2.0   0  0.00  82.  1001.   2 NAD-SFC NoSubs
 9  9  8 251  8   52.5  0.159  0.637  0.007  176.  152.     -6.8 0.2930  0.52  0.25  1.00 340.0  15.0 291.0  2.0   0  0.00  73.  1001.   2 NAD-SFC NoSubs
 9  9  8 251  9   95.7 -9.000 -9.000 -9.000  331. -999. -99999.0 0.2235  0.52  0.21  0.00   0.0  15.0 293.1  2.0   0  0.00  63.  1000.   2 NAD-SFC NoSubs
 9  9  8 251 10  129.7 -9.000 -9.000 -9.000  539. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 294.9  2.0   0  0.00  56.  1000.   2 NAD-SFC NoSubs
 9  9  8 251 11  153.0 -9.000 -9.000 -9.000  757. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 297.0  2.0   0  0.00  49.  1000.   2 NAD-SFC NoSubs
 9  9  8 251 12  164.5 -9.000 -9.000 -9.000  957. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 298.8  2.0   0  0.00  44.   999.   2 NAD-SFC NoSubs
 9  9  8 251 13  164.2 -9.000 -9.000 -9.000 1026. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 300.1  2.0   0  0.00  39.   998.   2 NAD-SFC NoSubs
 9  9  8 251 14  151.9  0.118  1.663  0.012 1077.   97.     -1.0 0.2720  0.52  0.19  0.50 315.0  15.0 301.1  2.0   0  0.00  37.   997.   2 NAD-SFC NoSubs
 9  9  8 251 15  127.9  0.115  1.590  0.012 1119.   93.     -1.0 0.2720  0.52  0.20  0.50 312.0  15.0 301.8  2.0   0  0.00  35.   996.   2 NAD-SFC NoSubs
 9  9  8 251 16   93.1  0.170  1.443  0.012 1148.  168.     -4.7 0.2930  0.52  0.21  1.00 339.0  15.0 302.1  2.0   0  0.00  35.   996.   2 NAD-SFC NoSubs
 9  9  8 251 17   49.1  0.262  1.171  0.012 1163.  321.    -32.5 0.2940  0.52  0.26  2.10   2.0  15.0 301.8  2.0   0  0.00  41.   996.   2 NAD-SFC NoSubs
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 9  9  8 251 18    2.1 -9.000 -9.000 -9.000 1162. -999. -99999.0  0.2235  0.52  0.44  0.00    0.0  15.0  300.8  2.0  0  0.00  46.   997.   2 NAD-SFC NoSubs
 9  9  8 251 19  -31.1  0.303 -9.000 -9.000 -999.  401.    79.6  0.2930  0.52  1.00  3.10  357.0  15.0  299.5  2.0  0  0.00  50.   997.   2 NAD-SFC NoSubs
 9  9  8 251 20  -38.5  0.373 -9.000 -9.000 -999.  546.   119.7  0.2160  0.52  1.00  4.10  290.0  15.0  298.2  2.0  0  0.00  55.   998.   2 NAD-SFC NoSubs
 9  9  8 251 21  -38.9  0.373 -9.000 -9.000 -999.  546.   118.3  0.2160  0.52  1.00  4.10  279.0  15.0  295.0  2.0  0  0.00  70.   999.   2 NAD-SFC NoSubs
 9  9  8 251 22  -29.2  0.278 -9.000 -9.000 -999.  357.    65.6  0.2160  0.52  1.00  3.10  295.0  15.0  293.4  2.0  0  0.00  76.  1000.   2 NAD-SFC NoSubs
 9  9  8 251 23  -29.3  0.278 -9.000 -9.000 -999.  352.    65.4  0.2160  0.52  1.00  3.10  292.0  15.0  292.8  2.0  0  0.00  76.  1001.   2 NAD-SFC NoSubs
 9  9  8 251 24  -30.6  0.297 -9.000 -9.000 -999.  388.    76.3  0.2720  0.52  1.00  3.10  305.0  15.0  292.1  2.0  0  0.00  77.  1001.   3 NAD-SFC NoSubs
 9  9  9 252  1  -16.3  0.200 -9.000 -9.000 -999.  219.    43.7  0.2930  0.52  1.00  2.10  339.0  15.0  291.8  2.0  0  0.00  77.  1001.   3 NAD-SFC NoSubs
 9  9  9 252  2  -25.5  0.252 -9.000 -9.000 -999.  304.    56.0  0.2940  0.52  1.00  2.60    9.0  15.0  291.2  2.0  0  0.00  78.  1002.   3 NAD-SFC NoSubs
 9  9  9 252  3  -25.9  0.252 -9.000 -9.000 -999.  303.    55.1  0.2940  0.52  1.00  2.60    8.0  15.0  290.8  2.0  0  0.00  80.  1002.   2 NAD-SFC NoSubs
 9  9  9 252  4  -16.6  0.200 -9.000 -9.000 -999.  215.    43.0  0.2940  0.52  1.00  2.10    7.0  15.0  290.2  2.0  0  0.00  80.  1002.   2 NAD-SFC NoSubs
 9  9  9 252  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  290.1  2.0  0  0.00  80.  1003.   2 NAD-SFC NoSubs
 9  9  9 252  6   -1.7  0.084 -9.000 -9.000 -999.   59.    32.1  0.2940  0.52  1.00  0.50    8.0  15.0  289.8  2.0  0  0.00  81.  1003.   2 NAD-SFC NoSubs
 9  9  9 252  7    4.7  0.076  0.175  0.012   41.   50.    -8.4  0.2940  0.52  0.40  0.50    5.0  15.0  290.1  2.0  0  0.00  79.  1004.   2 NAD-SFC NoSubs
 9  9  9 252  8   52.4  0.101  0.614  0.010  158.   77.    -1.8  0.2720  0.52  0.25  0.50  302.0  15.0  292.6  2.0  0  0.00  67.  1004.   2 NAD-SFC NoSubs
 9  9  9 252  9   95.6 -9.000 -9.000 -9.000  293. -999. -99999.0  0.2235  0.52  0.21  0.00    0.0  15.0  294.6  2.0  0  0.00  60.  1004.   2 NAD-SFC NoSubs
 9  9  9 252 10  129.6 -9.000 -9.000 -9.000  450. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  296.4  2.0  0  0.00  55.  1004.   2 NAD-SFC NoSubs
 9  9  9 252 11  152.9 -9.000 -9.000 -9.000  624. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  298.4  2.0  0  0.00  49.  1004.   2 NAD-SFC NoSubs
 9  9  9 252 12  164.6 -9.000 -9.000 -9.000  764. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  300.4  2.0  0  0.00  42.  1003.   2 NAD-SFC NoSubs
 9  9  9 252 13  164.3 -9.000 -9.000 -9.000  881. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.9  2.0  0  0.00  38.  1002.   2 NAD-SFC NoSubs
 9  9  9 252 14  152.0  0.118  1.607  0.009  976.   97.    -1.0  0.2720  0.52  0.19  0.50  315.0  15.0  303.0  2.0  0  0.00  34.  1001.   2 NAD-SFC NoSubs
 9  9  9 252 15  127.9  0.115  1.548  0.009 1037.   93.    -1.0  0.2720  0.52  0.20  0.50  324.0  15.0  303.6  2.0  0  0.00  33.  1001.   2 NAD-SFC NoSubs
 9  9  9 252 16   92.9  0.221  1.410  0.009 1078.  249.   -10.3  0.2930  0.52  0.21  1.50  345.0  15.0  303.9  2.0  0  0.00  33.  1001.   2 NAD-SFC NoSubs
 9  9  9 252 17   48.8  0.261  1.145  0.009 1098.  321.   -32.7  0.2930  0.52  0.27  2.10  351.0  15.0  303.4  2.0  0  0.00  40.  1001.   2 NAD-SFC NoSubs
 9  9  9 252 18    1.9  0.369  0.392  0.009 1097.  537.  -2293.5  0.2940  0.52  0.44  3.60   15.0  15.0  302.4  2.0  0  0.00  45.  1001.   2 NAD-SFC NoSubs
 9  9  9 252 19  -41.7  0.406 -9.000 -9.000 -999.  621.   143.5  0.2940  0.52  1.00  4.10   19.0  15.0  300.8  2.0  0  0.00  51.  1001.   2 NAD-SFC NoSubs
 9  9  9 252 20  -16.4  0.200 -9.000 -9.000 -999.  255.    43.8  0.2940  0.52  1.00  2.10    9.0  15.0  299.6  2.0  0  0.00  54.  1002.   2 NAD-SFC NoSubs
 9  9  9 252 21  -33.7  0.325 -9.000 -9.000 -999.  445.    91.3  0.2160  0.52  1.00  3.60  289.0  15.0  298.2  2.0  0  0.00  58.  1002.   2 NAD-SFC NoSubs
 9  9  9 252 22  -38.9  0.373 -9.000 -9.000 -999.  546.   118.8  0.2160  0.52  1.00  4.10  299.0  15.0  296.2  2.0  0  0.00  65.  1003.   2 NAD-SFC NoSubs
 9  9  9 252 23  -36.4  0.347 -9.000 -9.000 -999.  491.   102.5  0.2720  0.52  1.00  3.60  313.0  15.0  294.9  2.0  0  0.00  68.  1003.   2 NAD-SFC NoSubs
 9  9  9 252 24  -31.2  0.296 -9.000 -9.000 -999.  389.    74.7  0.2720  0.52  1.00  3.10  320.0  15.0  294.1  2.0  0  0.00  69.  1003.   2 NAD-SFC NoSubs
 9  9 10 253  1  -16.5  0.200 -9.000 -9.000 -999.  219.    43.2  0.2930  0.52  1.00  2.10  345.0  15.0  293.6  2.0  0  0.00  70.  1004.   2 NAD-SFC NoSubs
 9  9 10 253  2  -16.6  0.200 -9.000 -9.000 -999.  215.    43.3  0.2940  0.52  1.00  2.10   29.0  15.0  293.1  2.0  0  0.00  71.  1004.   2 NAD-SFC NoSubs
 9  9 10 253  3  -15.2  0.190 -9.000 -9.000 -999.  199.    40.3  0.2470  0.52  1.00  2.10   39.0  15.0  292.6  2.0  0  0.00  72.  1004.   2 NAD-SFC NoSubs
 9  9 10 253  4   -3.8  0.099 -9.000 -9.000 -999.   78.    22.9  0.2470  0.52  1.00  1.00   40.0  15.0  292.2  2.0  0  0.00  72.  1005.   2 NAD-SFC NoSubs
 9  9 10 253  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  291.8  2.0  0  0.00  74.  1005.   2 NAD-SFC NoSubs
 9  9 10 253  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  291.1  2.0  0  0.00  77.  1005.   2 NAD-SFC NoSubs
 9  9 10 253  7    4.4 -9.000 -9.000 -9.000   32. -999. -99999.0  0.2235  0.52  0.40  0.00    0.0  15.0  291.1  2.0  0  0.00  78.  1006.   2 NAD-SFC NoSubs
 9  9 10 253  8   52.3 -9.000 -9.000 -9.000  142. -999. -99999.0  0.2235  0.52  0.25  0.00    0.0  15.0  294.1  2.0  0  0.00  63.  1006.   2 NAD-SFC NoSubs
 9  9 10 253  9   95.6 -9.000 -9.000 -9.000  274. -999. -99999.0  0.2235  0.52  0.21  0.00    0.0  15.0  296.1  2.0  0  0.00  58.  1006.   2 NAD-SFC NoSubs
 9  9 10 253 10  129.7 -9.000 -9.000 -9.000  451. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  298.2  2.0  0  0.00  52.  1006.   2 NAD-SFC NoSubs
 9  9 10 253 11  152.9 -9.000 -9.000 -9.000  670. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  299.9  2.0  0  0.00  49.  1005.   2 NAD-SFC NoSubs
 9  9 10 253 12  164.5 -9.000 -9.000 -9.000  799. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.8  2.0  0  0.00  44.  1005.   2 NAD-SFC NoSubs
 9  9 10 253 13  164.1 -9.000 -9.000 -9.000  911. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  303.2  2.0  0  0.00  38.  1004.   2 NAD-SFC NoSubs
 9  9 10 253 14  151.8 -9.000 -9.000 -9.000 1001. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  304.4  2.0  0  0.00  35.  1003.   2 NAD-SFC NoSubs
 9  9 10 253 15  127.7  0.114  1.560  0.008 1065.   93.    -1.1  0.2720  0.52  0.20  0.50  326.0  15.0  305.1  2.0  0  0.00  33.  1003.   2 NAD-SFC NoSubs
 9  9 10 253 16   92.5 -9.000 -9.000 -9.000 1109. -999. -99999.0  0.2235  0.52  0.21  0.00    0.0  15.0  305.2  2.0  0  0.00  33.  1002.   2 NAD-SFC NoSubs
 9  9 10 253 17   48.3  0.261  1.152  0.008 1131.  321.   -33.0  0.2940  0.52  0.27  2.10   20.0  15.0  304.8  2.0  0  0.00  41.  1002.   2 NAD-SFC NoSubs
 9  9 10 253 18    1.6  0.318  0.367  0.008 1129.  430.  -1835.3  0.2940  0.52  0.45  3.10   16.0  15.0  303.6  2.0  0  0.00  47.  1002.   2 NAD-SFC NoSubs
 9  9 10 253 19  -23.4  0.240 -9.000 -9.000 -999.  284.    52.6  0.2470  0.52  1.00  2.60   33.0  15.0  302.0  2.0  0  0.00  52.  1003.   2 NAD-SFC NoSubs
 9  9 10 253 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  300.4  2.0  0  0.00  58.  1003.   2 NAD-SFC NoSubs
 9  9 10 253 21  -22.1  0.231 -9.000 -9.000 -999.  266.    49.7  0.2160  0.52  1.00  2.60  275.0  15.0  298.9  2.0  0  0.00  64.  1003.   2 NAD-SFC NoSubs
 9  9 10 253 22  -33.9  0.325 -9.000 -9.000 -999.  445.    90.9  0.2160  0.52  1.00  3.60  294.0  15.0  297.2  2.0  0  0.00  67.  1003.   2 NAD-SFC NoSubs
 9  9 10 253 23  -24.7  0.246 -9.000 -9.000 -999.  296.    54.0  0.2720  0.52  1.00  2.60  300.0  15.0  296.2  2.0  0  0.00  68.  1004.   2 NAD-SFC NoSubs
 9  9 10 253 24   -3.9  0.100 -9.000 -9.000 -999.   95.    23.3  0.2720  0.52  1.00  1.00  329.0  15.0  295.6  2.0  0  0.00  69.  1004.   2 NAD-SFC NoSubs
 9  9 11 254  1   -4.0  0.102 -9.000 -9.000 -999.   78.    23.7  0.2940  0.52  1.00  1.00   19.0  15.0  295.0  2.0  0  0.00  70.  1004.   2 NAD-SFC NoSubs
 9  9 11 254  2   -1.6  0.084 -9.000 -9.000 -999.   58.    31.9  0.2930  0.52  1.00  0.50  348.0  15.0  294.8  2.0  0  0.00  69.  1004.   2 NAD-SFC NoSubs
 9  9 11 254  3   -1.5  0.081 -9.000 -9.000 -999.   55.    31.3  0.2160  0.52  1.00  0.50  289.0  15.0  294.1  2.0  0  0.00  69.  1004.   2 NAD-SFC NoSubs
 9  9 11 254  4   -1.5  0.081 -9.000 -9.000 -999.   55.    31.3  0.2160  0.52  1.00  0.50  273.0  15.0  293.4  2.0  0  0.00  70.  1004.   2 NAD-SFC NoSubs
 9  9 11 254  5   -3.6  0.097 -9.000 -9.000 -999.   72.    22.4  0.2160  0.52  1.00  1.00  295.0  15.0  292.8  2.0  0  0.00  71.  1004.   2 NAD-SFC NoSubs
 9  9 11 254  6   -3.9  0.101 -9.000 -9.000 -999.   77.    23.3  0.2720  0.52  1.00  1.00  304.0  15.0  292.2  2.0  0  0.00  74.  1005.   2 NAD-SFC NoSubs
 9  9 11 254  7    4.2  0.070  0.154  0.014   31.   45.    -7.4  0.2160  0.52  0.40  0.50  289.0  15.0  292.2  2.0  0  0.00  76.  1005.   2 NAD-SFC NoSubs
 9  9 11 254  8   51.7  0.101  0.591  0.011  143.   77.    -1.8  0.2720  0.52  0.25  0.50  308.0  15.0  294.2  2.0  0  0.00  73.  1005.   2 NAD-SFC NoSubs
 9  9 11 254  9   95.1 -9.000 -9.000 -9.000  271. -999. -99999.0  0.2235  0.52  0.21  0.00    0.0  15.0  296.4  2.0  0  0.00  66.  1005.   2 NAD-SFC NoSubs
 9  9 11 254 10  129.3 -9.000 -9.000 -9.000  397. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  298.5  2.0  0  0.00  58.  1004.   2 NAD-SFC NoSubs
 9  9 11 254 11  152.4 -9.000 -9.000 -9.000  593. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  300.2  2.0  0  0.00  53.  1003.   2 NAD-SFC NoSubs
 9  9 11 254 12  163.9 -9.000 -9.000 -9.000  749. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  302.1  2.0  0  0.00  48.  1002.   2 NAD-SFC NoSubs
 9  9 11 254 13  163.5 -9.000 -9.000 -9.000  877. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  303.6  2.0  0  0.00  42.  1001.   2 NAD-SFC NoSubs
 9  9 11 254 14  151.1 -9.000 -9.000 -9.000  977. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  304.8  2.0  0  0.00  38.  1000.   2 NAD-SFC NoSubs
 9  9 11 254 15  126.9  0.177  1.539  0.010 1024.  179.    -3.9  0.2940  0.52  0.20  1.00   23.0  15.0  305.4  2.0  0  0.00  37.   999.   2 NAD-SFC NoSubs
 9  9 11 254 16   91.6  0.212  1.395  0.010 1057.  235.    -9.3  0.2470  0.52  0.21  1.50   33.0  15.0  305.5  2.0  0  0.00  37.   999.   2 NAD-SFC NoSubs
 9  9 11 254 17   47.3  0.197  1.125  0.009 1073.  211.   -14.5  0.2470  0.52  0.27  1.50   42.0  15.0  305.0  2.0  0  0.00  44.   998.   2 NAD-SFC NoSubs
 9  9 11 254 18    0.9  0.151  0.300  0.009 1072.  142.  -344.8  0.2470  0.52  0.46  1.50   49.0  15.0  304.2  2.0  0  0.00  47.   998.   2 NAD-SFC NoSubs
 9  9 11 254 19  -13.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  302.6  2.0  0  0.00  52.   999.   2 NAD-SFC NoSubs
 9  9 11 254 20  -27.0  0.263 -9.000 -9.000 -999.  325.    60.4  0.1750  0.52  1.00  3.10  266.0  15.0  301.2  2.0  0  0.00  57.   999.   2 NAD-SFC NoSubs
 9  9 11 254 21  -43.4  0.420 -9.000 -9.000 -999.  653.   152.1  0.2160  0.52  1.00  4.60  282.0  15.0  298.2  2.0  0  0.00  68.   999.   2 NAD-SFC NoSubs
 9  9 11 254 22  -33.8  0.325 -9.000 -9.000 -999.  451.    90.6  0.2160  0.52  1.00  3.60  278.0  15.0  296.2  2.0  0  0.00  72.   999.   2 NAD-SFC NoSubs
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 9  9 11 254 23  -29.0  0.278 -9.000 -9.000 -999.  353.     66.0  0.2160  0.52  1.00  3.10  291.0  15.0  295.4  2.0   0  0.00  72.  1000.   2 NAD-SFC NoSubs
 9  9 11 254 24  -15.8  0.195 -9.000 -9.000 -999.  210.     42.0  0.2720  0.52  1.00  2.10  315.0  15.0  294.8  2.0   0  0.00  71.  1000.   2 NAD-SFC NoSubs
 9  9 12 255  1   -8.2  0.140 -9.000 -9.000 -999.  126.     29.6  0.2930  0.52  1.00  1.50  330.0  15.0  294.1  2.0   0  0.00  73.  1000.   2 NAD-SFC NoSubs
 9  9 12 255  2   -4.0  0.102 -9.000 -9.000 -999.   78.     23.6  0.2930  0.52  1.00  1.00  355.0  15.0  293.4  2.0   0  0.00  75.  1000.   2 NAD-SFC NoSubs
 9  9 12 255  3   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.2160  0.52  1.00  0.50  293.0  15.0  292.9  2.0   0  0.00  76.  1000.   2 NAD-SFC NoSubs
 9  9 12 255  4   -3.4  0.093 -9.000 -9.000 -999.   69.     21.7  0.1750  0.52  1.00  1.00  256.0  15.0  292.6  2.0   0  0.00  76.  1000.   2 NAD-SFC NoSubs
 9  9 12 255  5   -6.6  0.122 -9.000 -9.000 -999.  103.     24.8  0.1750  0.52  1.00  1.50  268.0  15.0  292.2  2.0   0  0.00  75.  1000.   2 NAD-SFC NoSubs
 9  9 12 255  6   -7.2  0.129 -9.000 -9.000 -999.  111.     26.5  0.2160  0.52  1.00  1.50  276.0  15.0  292.0  2.0   0  0.00  76.  1000.   2 NAD-SFC NoSubs
 9  9 12 255  7    3.7  0.113  0.161  0.013   41.   91.    -35.2  0.2160  0.52  0.40  1.00  297.0  15.0  292.1  2.0   0  0.00  76.  1000.   2 NAD-SFC NoSubs
 9  9 12 255  8   51.1  0.155  0.608  0.012  157.  147.     -6.6  0.2720  0.52  0.25  1.00  319.0  15.0  294.1  2.0   0  0.00  70.  1000.   2 NAD-SFC NoSubs
 9  9 12 255  9   94.4 -9.000 -9.000 -9.000  283. -999. -99999.0  0.2235  0.52  0.21  0.00    0.0  15.0  296.1  2.0   0  0.00  66.   999.   2 NAD-SFC NoSubs
 9  9 12 255 10  128.3 -9.000 -9.000 -9.000  417. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  297.8  2.0   0  0.00  62.   999.   2 NAD-SFC NoSubs
 9  9 12 255 11  151.4 -9.000 -9.000 -9.000  546. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  299.6  2.0   0  0.00  55.   998.   2 NAD-SFC NoSubs
 9  9 12 255 12  162.8 -9.000 -9.000 -9.000  659. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.2  2.0   0  0.00  50.   997.   2 NAD-SFC NoSubs
 9  9 12 255 13  162.2 -9.000 -9.000 -9.000  779. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  302.6  2.0   0  0.00  45.   997.   2 NAD-SFC NoSubs
 9  9 12 255 14  149.7  0.117  1.545  0.011  876.  97.     -1.0  0.2720  0.52  0.19  0.50  318.0  15.0  303.8  2.0   0  0.00  41.   996.   2 NAD-SFC NoSubs
 9  9 12 255 15  125.4  0.116  1.497  0.011  951.  95.     -1.1  0.2930  0.52  0.20  0.50  353.0  15.0  304.6  2.0   0  0.00  38.   995.   2 NAD-SFC NoSubs
 9  9 12 255 16   90.9  0.220  1.365  0.011  993. 248.    -10.4  0.2930  0.52  0.22  1.50  339.0  15.0  305.0  2.0   0  0.00  35.   995.   3 NAD-SFC NoSubs
 9  9 12 255 17   46.9  0.347  1.101  0.010 1010. 490.    -78.8  0.2720  0.52  0.27  3.10  304.0  15.0  304.4  2.0   0  0.00  45.   995.   3 NAD-SFC NoSubs
 9  9 12 255 18   -0.5  0.489 -9.000 -9.000 -999. 821.   8888.0  0.2160  0.52  0.47  5.10  284.0  15.0  301.1  2.0   0  0.00  56.   996.   3 NAD-SFC NoSubs
 9  9 12 255 19  -40.1  0.398 -9.000 -9.000 -999. 610.    139.9  0.1750  0.52  1.00  4.60  263.0  15.0  297.5  2.0   0  0.00  64.   997.   3 NAD-SFC NoSubs
 9  9 12 255 20  -40.4  0.398 -9.000 -9.000 -999. 603.    138.8  0.1750  0.52  1.00  4.60  258.0  15.0  295.2  2.0   0  0.00  69.   997.   3 NAD-SFC NoSubs
 9  9 12 255 21  -40.7  0.398 -9.000 -9.000 -999. 603.    138.0  0.1750  0.52  1.00  4.60  259.0  15.0  293.6  2.0   0  0.00  72.   998.   3 NAD-SFC NoSubs
 9  9 12 255 22  -33.4  0.325 -9.000 -9.000 -999. 449.     91.9  0.2160  0.52  1.00  3.60  280.0  15.0  292.6  2.0   0  0.00  74.   998.   3 NAD-SFC NoSubs
 9  9 12 255 23   -7.8  0.137 -9.000 -9.000 -999. 158.     29.1  0.2720  0.52  1.00  1.50  309.0  15.0  292.2  2.0   0  0.00  74.   998.   3 NAD-SFC NoSubs
 9  9 12 255 24   -3.8  0.100 -9.000 -9.000 -999.  77.     23.3  0.2720  0.52  1.00  1.00  327.0  15.0  291.8  2.0   0  0.00  74.   999.   3 NAD-SFC NoSubs
 9  9 13 256  1   -7.9  0.137 -9.000 -9.000 -999. 121.     29.1  0.2720  0.52  1.00  1.50  300.0  15.0  291.2  2.0   0  0.00  75.   999.   3 NAD-SFC NoSubs
 9  9 13 256  2  -22.0  0.231 -9.000 -9.000 -999. 266.     49.6  0.2160  0.52  1.00  2.60  290.0  15.0  290.6  2.0   0  0.00  75.   999.   3 NAD-SFC NoSubs
 9  9 13 256  3  -28.8  0.278 -9.000 -9.000 -999. 352.     66.5  0.2160  0.52  1.00  3.10  286.0  15.0  289.9  2.0   0  0.00  77.  1000.   3 NAD-SFC NoSubs
 9  9 13 256  4  -28.9  0.278 -9.000 -9.000 -999. 352.     66.3  0.2160  0.52  1.00  3.10  287.0  15.0  289.1  2.0   0  0.00  78.  1000.   3 NAD-SFC NoSubs
 9  9 13 256  5  -24.6  0.246 -9.000 -9.000 -999. 293.     54.0  0.2720  0.52  1.00  2.60  300.0  15.0  288.6  2.0   0  0.00  77.  1000.   3 NAD-SFC NoSubs
 9  9 13 256  6   -7.1  0.129 -9.000 -9.000 -999. 119.     26.7  0.2160  0.52  1.00  1.50  297.0  15.0  288.2  2.0   0  0.00  76.  1000.   3 NAD-SFC NoSubs
 9  9 13 256  7    3.6  0.208  0.181  0.007   58. 228.   -222.2  0.2160  0.52  0.41  2.10  295.0  15.0  288.8  2.0   0  0.00  71.  1001.   3 NAD-SFC NoSubs
 9  9 13 256  8   50.3  0.203  0.641  0.007  186. 219.    -14.8  0.2720  0.52  0.26  1.50  301.0  15.0  290.2  2.0   0  0.00  62.  1001.   3 NAD-SFC NoSubs
 9  9 13 256  9   92.5 -9.000 -9.000 -9.000  329. -999. -99999.0  0.2235  0.52  0.21  0.00    0.0  15.0  292.4  2.0   0  0.00  53.  1001.   2 NAD-SFC NoSubs
 9  9 13 256 10  126.3 -9.000 -9.000 -9.000  544. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  294.1  2.0   0  0.00  47.  1001.   2 NAD-SFC NoSubs
 9  9 13 256 11  149.2 -9.000 -9.000 -9.000  706. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  295.8  2.0   0  0.00  42.  1001.   2 NAD-SFC NoSubs
 9  9 13 256 12  160.4 -9.000 -9.000 -9.000  795. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  297.4  2.0   0  0.00  37.  1000.   2 NAD-SFC NoSubs
 9  9 13 256 13  159.6  0.118  1.576  0.009  876.  98.     -1.0  0.2720  0.52  0.19  0.50  315.0  15.0  298.8  2.0   0  0.00  32.   999.   2 NAD-SFC NoSubs
 9  9 13 256 14  146.9  0.180  1.572  0.009  944. 184.     -3.6  0.2930  0.52  0.19  1.00  344.0  15.0  299.8  2.0   0  0.00  28.   999.   2 NAD-SFC NoSubs
 9  9 13 256 15  122.3  0.176  1.510  0.010 1004. 177.     -4.0  0.2930  0.52  0.20  1.00  350.0  15.0  300.2  2.0   0  0.00  25.   998.   2 NAD-SFC NoSubs
 9  9 13 256 16   86.9 -9.000 -9.000 -9.000 1049. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  300.6  2.0   0  0.00  24.   998.   2 NAD-SFC NoSubs
 9  9 13 256 17   42.5  0.203  1.085  0.010 1070. 220.    -17.5  0.2930  0.52  0.27  1.50  349.0  15.0  300.1  2.0   0  0.00  31.   997.   2 NAD-SFC NoSubs
 9  9 13 256 18   -8.9  0.357 -9.000 -9.000 -999. 513.    458.5  0.2720  0.52  0.48  3.60  313.0  15.0  299.0  2.0   0  0.00  37.   998.   2 NAD-SFC NoSubs
 9  9 13 256 19  -43.8  0.420 -9.000 -9.000 -999. 653.    150.6  0.2160  0.52  1.00  4.60  289.0  15.0  295.5  2.0   0  0.00  51.   999.   2 NAD-SFC NoSubs
 9  9 13 256 20  -39.3  0.372 -9.000 -9.000 -999. 547.    117.4  0.2160  0.52  1.00  4.10  284.0  15.0  292.8  2.0   0  0.00  64.  1000.   2 NAD-SFC NoSubs
 9  9 13 256 21  -34.4  0.325 -9.000 -9.000 -999. 447.     89.1  0.2160  0.52  1.00  3.60  276.0  15.0  291.4  2.0   0  0.00  70.  1000.   2 NAD-SFC NoSubs
 9  9 13 256 22  -29.5  0.278 -9.000 -9.000 -999. 353.     64.9  0.2160  0.52  1.00  3.10  288.0  15.0  290.5  2.0   0  0.00  73.  1001.   2 NAD-SFC NoSubs
 9  9 13 256 23  -31.6  0.296 -9.000 -9.000 -999. 387.     73.6  0.2720  0.52  1.00  3.10  314.0  15.0  290.0  2.0   0  0.00  75.  1001.   2 NAD-SFC NoSubs
 9  9 13 256 24  -24.6  0.246 -9.000 -9.000 -999. 294.     54.1  0.2720  0.52  1.00  2.60  327.0  15.0  289.5  2.0   0  0.00  78.  1002.   3 NAD-SFC NoSubs
 9  9 14 257  1   -8.2  0.140 -9.000 -9.000 -999. 131.     29.8  0.2940  0.52  1.00  1.50    6.0  15.0  289.1  2.0   0  0.00  81.  1002.   3 NAD-SFC NoSubs
 9  9 14 257  2   -3.7  0.099 -9.000 -9.000 -999.  75.     22.9  0.2470  0.52  1.00  1.00   40.0  15.0  288.8  2.0   0  0.00  83.  1003.   3 NAD-SFC NoSubs
 9  9 14 257  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  288.8  2.0   0  0.00  86.  1003.   3 NAD-SFC NoSubs
 9  9 14 257  4   -3.3  0.093 -9.000 -9.000 -999.  68.     21.7  0.1810  0.52  1.00  1.00  167.0  15.0  288.9  2.0   0  0.00  86.  1003.   4 NAD-SFC NoSubs
 9  9 14 257  5   -3.0  0.090 -9.000 -9.000 -999.  65.     21.7  0.1810  0.52  1.00  1.00  150.0  15.0  289.1  2.0   0  0.00  86.  1003.   6 NAD-SFC NoSubs
 9  9 14 257  6   -5.0  0.127 -9.000 -9.000 -999. 109.     36.7  0.1970  0.52  1.00  1.50  131.0  15.0  289.2  2.0   0  0.00  87.  1004.  10 NAD-SFC NoSubs
 9  9 14 257  7   -2.0  0.133 -9.000 -9.000 -999. 116.    107.7  0.1970  0.52  0.41  1.50  130.0  15.0  289.4  2.0   0  0.00  88.  1005.  10 NAD-SFC NoSubs
 9  9 14 257  8   10.2  0.214  0.288  0.005   83. 238.    -86.4  0.1970  0.52  0.26  2.10  135.0  15.0  289.5  2.0   0  0.00  89.  1005.  10 NAD-SFC NoSubs
 9  9 14 257  9   62.2  0.194  0.878  0.005  390. 205.    -10.5  0.1970  0.52  0.21  1.50  138.0  15.0  290.0  2.0   0  0.00  87.  1005.   8 NAD-SFC NoSubs
 9  9 14 257 10  101.3 -9.000 -9.000 -9.000  671. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  291.8  2.0   0  0.00  77.  1005.   7 NAD-SFC NoSubs
 9  9 14 257 11   99.3 -9.000 -9.000 -9.000  774. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  293.2  2.0   0  0.00  69.  1005.   8 NAD-SFC NoSubs
 9  9 14 257 12  106.4 -9.000 -9.000 -9.000  870. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  294.1  2.0   0  0.00  65.  1005.   8 NAD-SFC NoSubs
 9  9 14 257 13  126.9 -9.000 -9.000 -9.000  974. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  295.2  2.0   0  0.00  59.  1004.   7 NAD-SFC NoSubs
 9  9 14 257 14  142.9  0.110  1.615  0.008 1056.  88.     -1.0  0.2160  0.52  0.19  0.50  277.0  15.0  296.2  2.0   0  0.00  53.  1003.   4 NAD-SFC NoSubs
 9  9 14 257 15  119.0  0.113  1.549  0.008 1120.  92.     -1.1  0.2720  0.52  0.20  0.50  301.0  15.0  296.9  2.0   0  0.00  49.  1003.   4 NAD-SFC NoSubs
 9  9 14 257 16   84.6  0.215  1.401  0.008 1163. 239.    -10.5  0.2720  0.52  0.22  1.50  329.0  15.0  297.2  2.0   0  0.00  47.  1002.   4 NAD-SFC NoSubs
 9  9 14 257 17   41.6  0.203  1.113  0.008 1184. 219.    -17.8  0.2930  0.52  0.28  1.50  351.0  15.0  297.2  2.0   0  0.00  50.  1002.   4 NAD-SFC NoSubs
 9  9 14 257 18   -4.8  0.249 -9.000 -9.000 -999. 298.    286.7  0.2470  0.52  0.48  2.60   39.0  15.0  296.6  2.0   0  0.00  57.  1002.   4 NAD-SFC NoSubs
 9  9 14 257 19  -36.5  0.370 -9.000 -9.000 -999. 540.    123.9  0.2090  0.52  1.00  4.10   66.0  15.0  294.2  2.0   0  0.00  68.  1003.   4 NAD-SFC NoSubs
 9  9 14 257 20  -30.7  0.325 -9.000 -9.000 -999. 446.    100.0  0.2130  0.52  1.00  3.60   95.0  15.0  292.8  2.0   0  0.00  76.  1003.   5 NAD-SFC NoSubs
 9  9 14 257 21  -22.8  0.279 -9.000 -9.000 -999. 354.     85.1  0.2130  0.52  1.00  3.10  107.0  15.0  292.0  2.0   0  0.00  78.  1004.   7 NAD-SFC NoSubs
 9  9 14 257 22  -12.1  0.185 -9.000 -9.000 -999. 195.     47.0  0.2130  0.52  1.00  2.10  110.0  15.0  291.8  2.0   0  0.00  78.  1004.   8 NAD-SFC NoSubs
 9  9 14 257 23   -0.8  0.062 -9.000 -9.000 -999.  53.     25.5  0.2090  0.52  1.00  0.50   62.0  15.0  291.4  2.0   0  0.00  80.  1005.  10 NAD-SFC NoSubs
 9  9 14 257 24   -2.6  0.093 -9.000 -9.000 -999.  69.     27.7  0.2930  0.52  1.00  1.00  360.0  15.0  291.2  2.0   0  0.00  82.  1005.  10 NAD-SFC NoSubs
 9  9 15 258  1   -3.4  0.097 -9.000 -9.000 -999.  72.     24.3  0.2930  0.52  1.00  1.00  354.0  15.0  291.2  2.0   0  0.00  84.  1004.   7 NAD-SFC NoSubs
 9  9 15 258  2   -3.7  0.100 -9.000 -9.000 -999.  75.     23.8  0.2930  0.52  1.00  1.00  342.0  15.0  291.2  2.0   0  0.00  85.  1004.   5 NAD-SFC NoSubs
 9  9 15 258  3   -1.6  0.082 -9.000 -9.000 -999.  56.     31.4  0.2930  0.52  1.00  0.50  331.0  15.0  291.0  2.0   0  0.00  88.  1004.   4 NAD-SFC NoSubs
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 9  9 15 258  4   -1.5  0.081 -9.000 -9.000 -999.   56.     31.3  0.2720  0.52  1.00   0.50  306.0  15.0  290.8   2.0    0   0.25   90.  1004.     4 NAD-SFC NoSubs
 9  9 15 258  5   -1.4  0.079 -9.000 -9.000 -999.   53.     30.8  0.2160  0.52  1.00   0.50  297.0  15.0  290.6   2.0    0   0.25   91.  1004.     4 NAD-SFC NoSubs
 9  9 15 258  6   -3.9  0.100 -9.000 -9.000 -999.   76.     23.3  0.2720  0.52  1.00   1.00  311.0  15.0  290.5   2.0    0   0.25   91.  1005.     3 NAD-SFC NoSubs
 9  9 15 258  7    3.0  0.162  0.239  0.005  161.  157.   -126.2  0.2720  0.52  0.41   1.50  306.0  15.0  290.4   2.0    0   0.25   92.  1005.     3 NAD-SFC NoSubs
 9  9 15 258  8   49.1  0.202  0.822  0.005  405.  218.    -15.1  0.2720  0.52  0.26   1.50  311.0  15.0  290.5   2.0    0   0.00   91.  1005.     3 NAD-SFC NoSubs
 9  9 15 258  9   90.9  0.158  1.141  0.006  587.  151.     -3.9  0.2160  0.52  0.21   1.00  296.0  15.0  291.2   2.0    0   0.00   84.  1005.     2 NAD-SFC NoSubs
 9  9 15 258 10  124.6  0.165  1.403  0.009  796.  161.     -3.2  0.2160  0.52  0.20   1.00  288.0  15.0  292.9   2.0    0   0.00   74.  1005.     2 NAD-SFC NoSubs
 9  9 15 258 11  147.4  0.111  1.591  0.013  980.   89.     -1.0  0.2160  0.52  0.19   0.50  296.0  15.0  294.5   2.0    0   0.00   67.  1004.     2 NAD-SFC NoSubs
 9  9 15 258 12  158.4  0.179  1.659  0.013 1033.  181.     -3.2  0.2720  0.52  0.19   1.00  323.0  15.0  296.2   2.0    0   0.00   60.  1003.     2 NAD-SFC NoSubs
 9  9 15 258 13  157.5  0.178  1.683  0.013 1084.  181.     -3.2  0.2720  0.52  0.19   1.00  329.0  15.0  297.6   2.0    0   0.00   55.  1002.     2 NAD-SFC NoSubs
 9  9 15 258 14  144.5  0.232  1.658  0.013 1128.  268.     -7.7  0.2930  0.52  0.19   1.50  352.0  15.0  298.6   2.0    0   0.00   52.  1002.     2 NAD-SFC NoSubs
 9  9 15 258 15  119.8 -9.000 -9.000 -9.000 1164. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  299.2   2.0    0   0.00   51.  1001.     2 NAD-SFC NoSubs
 9  9 15 258 16   84.2  0.321  1.409  0.013 1189.  437.    -35.1  0.2940  0.52  0.22   2.60   10.0  15.0  299.4   2.0    0   0.00   52.  1001.     2 NAD-SFC NoSubs
 9  9 15 258 17   39.7  0.303  1.101  0.013 1200.  401.    -62.6  0.2940  0.52  0.28   2.60   22.0  15.0  299.2   2.0    0   0.00   59.  1001.     2 NAD-SFC NoSubs
 9  9 15 258 18  -11.2  0.295 -9.000 -9.000 -999.  384.    203.3  0.2470  0.52  0.49   3.10   42.0  15.0  298.6   2.0    0   0.00   62.  1001.     2 NAD-SFC NoSubs
 9  9 15 258 19  -14.0  0.181 -9.000 -9.000 -999.  192.     38.1  0.2090  0.52  1.00   2.10   61.0  15.0  297.4   2.0    0   0.00   66.  1002.     2 NAD-SFC NoSubs
 9  9 15 258 20   -1.4  0.079 -9.000 -9.000 -999.   60.     30.8  0.1810  0.52  1.00   0.50  159.0  15.0  296.2   2.0    0   0.00   71.  1002.     2 NAD-SFC NoSubs
 9  9 15 258 21   -3.5  0.095 -9.000 -9.000 -999.   70.     22.0  0.1950  0.52  1.00   1.00  218.0  15.0  295.2   2.0    0   0.00   76.  1002.     2 NAD-SFC NoSubs
 9  9 15 258 22   -1.4  0.079 -9.000 -9.000 -999.   54.     31.0  0.1900  0.52  1.00   0.50  200.0  15.0  294.6   2.0    0   0.00   78.  1003.     2 NAD-SFC NoSubs
 9  9 15 258 23   -1.5  0.081 -9.000 -9.000 -999.   55.     31.3  0.2130  0.52  1.00   0.50   95.0  15.0  293.8   2.0    0   0.00   82.  1003.     2 NAD-SFC NoSubs
 9  9 15 258 24   -1.5  0.081 -9.000 -9.000 -999.   55.     31.3  0.2130  0.52  1.00   0.50  100.0  15.0  292.8   2.0    0   0.00   86.  1003.     2 NAD-SFC NoSubs
 9  9 16 259  1   -1.5  0.080 -9.000 -9.000 -999.   54.     31.2  0.1970  0.52  1.00   0.50  132.0  15.0  292.1   2.0    0   0.00   89.  1003.     2 NAD-SFC NoSubs
 9  9 16 259  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  291.6   2.0    0   0.00   91.  1003.     2 NAD-SFC NoSubs
 9  9 16 259  3   -3.9  0.101 -9.000 -9.000 -999.   77.     23.3  0.2720  0.52  1.00   1.00  308.0  15.0  291.2   2.0    0   0.00   93.  1003.     2 NAD-SFC NoSubs
 9  9 16 259  4  -16.0  0.195 -9.000 -9.000 -999.  207.     41.7  0.2720  0.52  1.00   2.10  326.0  15.0  290.9   2.0    0   0.00   94.  1004.     2 NAD-SFC NoSubs
 9  9 16 259  5  -16.6  0.200 -9.000 -9.000 -999.  214.     43.0  0.2930  0.52  1.00   2.10  342.0  15.0  290.5   2.0    0   0.00   96.  1004.     2 NAD-SFC NoSubs
 9  9 16 259  6  -16.6  0.200 -9.000 -9.000 -999.  214.     42.9  0.2930  0.52  1.00   2.10  354.0  15.0  290.0   2.0    0   0.00   98.  1004.     2 NAD-SFC NoSubs
 9  9 16 259  7    0.9  0.158  0.072  0.007   15.  151.   -381.7  0.2930  0.52  0.42   1.50  348.0  15.0  289.9   2.0    0   0.00   99.  1005.     2 NAD-SFC NoSubs
 9  9 16 259  8   47.7 -9.000 -9.000 -9.000  164. -999. -99999.0  0.2235  0.52  0.26   0.00    0.0  15.0  291.1   2.0    0   0.00   92.  1005.     2 NAD-SFC NoSubs
 9  9 16 259  9   90.7 -9.000 -9.000 -9.000  317. -999. -99999.0  0.2235  0.52  0.21   0.00    0.0  15.0  292.8   2.0    0   0.00   83.  1005.     2 NAD-SFC NoSubs
 9  9 16 259 10  124.6 -9.000 -9.000 -9.000  569. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  295.0   2.0    0   0.00   71.  1004.     2 NAD-SFC NoSubs
 9  9 16 259 11  147.6 -9.000 -9.000 -9.000  704. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  297.0   2.0    0   0.00   63.  1004.     2 NAD-SFC NoSubs
 9  9 16 259 12  158.7 -9.000 -9.000 -9.000  768. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  298.9   2.0    0   0.00   55.  1003.     2 NAD-SFC NoSubs
 9  9 16 259 13  157.7  0.120  1.539  0.011  827.  100.    -1.0  0.2930  0.52  0.19   0.50  343.0  15.0  300.2   2.0    0   0.00   49.  1002.     2 NAD-SFC NoSubs
 9  9 16 259 14  144.7  0.180  1.526  0.011  878.  183.    -3.6  0.2940  0.52  0.19   1.00    5.0  15.0  301.2   2.0    0   0.00   46.  1002.     2 NAD-SFC NoSubs
 9  9 16 259 15  120.0 -9.000 -9.000 -9.000  918. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  302.0   2.0    0   0.00   44.  1001.     2 NAD-SFC NoSubs
 9  9 16 259 16   84.3  0.321  1.307  0.010  945.  437.    -35.1  0.2940  0.52  0.22   2.60   12.0  15.0  302.2   2.0    0   0.00   43.  1001.     2 NAD-SFC NoSubs
 9  9 16 259 17   39.6  0.303  1.020  0.010  957.  401.    -62.7  0.2940  0.52  0.28   2.60   19.0  15.0  301.8   2.0    0   0.00   52.  1001.     2 NAD-SFC NoSubs
 9  9 16 259 18   -9.6  0.245 -9.000 -9.000 -999.  293.    137.4  0.2470  0.52  0.50   2.60   34.0  15.0  300.9   2.0    0   0.00   54.  1001.     2 NAD-SFC NoSubs
 9  9 16 259 19   -7.5  0.133 -9.000 -9.000 -999.  123.     28.1  0.2470  0.52  1.00   1.50   54.0  15.0  299.5   2.0    0   0.00   58.  1001.     2 NAD-SFC NoSubs
 9  9 16 259 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  298.1   2.0    0   0.00   64.  1001.     2 NAD-SFC NoSubs
 9  9 16 259 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  296.8   2.0    0   0.00   70.  1001.     2 NAD-SFC NoSubs
 9  9 16 259 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  295.8   2.0    0   0.00   75.  1002.     2 NAD-SFC NoSubs
 9  9 16 259 23   -1.6  0.084 -9.000 -9.000 -999.   58.     31.9  0.2940  0.52  1.00   0.50   27.0  15.0  294.8   2.0    0   0.00   79.  1002.     2 NAD-SFC NoSubs
 9  9 16 259 24   -1.6  0.084 -9.000 -9.000 -999.   58.     31.9  0.2940  0.52  1.00   0.50   24.0  15.0  293.9   2.0    0   0.00   83.  1001.     2 NAD-SFC NoSubs
 9  9 17 260  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  293.2   2.0    0   0.00   85.  1001.     2 NAD-SFC NoSubs
 9  9 17 260  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  292.8   2.0    0   0.00   86.  1001.     2 NAD-SFC NoSubs
 9  9 17 260  3   -3.6  0.097 -9.000 -9.000 -999.   72.     22.4  0.2160  0.52  1.00   1.00  298.0  15.0  292.4   2.0    0   0.00   87.  1001.     2 NAD-SFC NoSubs
 9  9 17 260  4  -15.9  0.195 -9.000 -9.000 -999.  207.     41.8  0.2720  0.52  1.00   2.10  312.0  15.0  292.1   2.0    0   0.00   86.  1001.     2 NAD-SFC NoSubs
 9  9 17 260  5  -24.9  0.246 -9.000 -9.000 -999.  293.     53.5  0.2720  0.52  1.00   2.60  320.0  15.0  291.5   2.0    0   0.00   89.  1002.     2 NAD-SFC NoSubs
 9  9 17 260  6  -16.0  0.195 -9.000 -9.000 -999.  208.     41.7  0.2720  0.52  1.00   2.10  322.0  15.0  290.9   2.0    0   0.00   93.  1002.     2 NAD-SFC NoSubs
 9  9 17 260  7    0.6  0.153  0.059  0.011   12.  144.   -524.1  0.2720  0.52  0.42   1.50  315.0  15.0  290.8   2.0    0   0.00   95.  1002.     2 NAD-SFC NoSubs
 9  9 17 260  8   47.5  0.205  0.562  0.010  133.  223.    -16.2  0.2930  0.52  0.26   1.50  340.0  15.0  292.6   2.0    0   0.00   88.  1002.     2 NAD-SFC NoSubs
 9  9 17 260  9   90.7 -9.000 -9.000 -9.000  265. -999. -99999.0  0.2235  0.52  0.21   0.00    0.0  15.0  294.8   2.0    0   0.00   78.  1002.     2 NAD-SFC NoSubs
 9  9 17 260 10  124.9 -9.000 -9.000 -9.000  417. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  297.4   2.0    0   0.00   64.  1001.     2 NAD-SFC NoSubs
 9  9 17 260 11  147.7 -9.000 -9.000 -9.000  573. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  299.2   2.0    0   0.00   56.  1001.     2 NAD-SFC NoSubs
 9  9 17 260 12  158.8 -9.000 -9.000 -9.000  683. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  300.9   2.0    0   0.00   50.  1000.     2 NAD-SFC NoSubs
 9  9 17 260 13  157.8 -9.000 -9.000 -9.000  746. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  302.1   2.0    0   0.00   45.   999.     2 NAD-SFC NoSubs
 9  9 17 260 14  144.8  0.119  1.481  0.010  800.   98.     -1.0  0.2930  0.52  0.19   0.50  334.0  15.0  303.2   2.0    0   0.00   42.   998.     2 NAD-SFC NoSubs
 9  9 17 260 15  119.8  0.176  1.415  0.009  842.  177.     -4.0  0.2930  0.52  0.20   1.00  350.0  15.0  303.8   2.0    0   0.00   40.   997.     2 NAD-SFC NoSubs
 9  9 17 260 16   84.1 -9.000 -9.000 -9.000  870. -999. -99999.0  0.2235  0.52  0.22   0.00    0.0  15.0  304.0   2.0    0   0.00   40.   997.     2 NAD-SFC NoSubs
 9  9 17 260 17   39.4 -9.000 -9.000 -9.000  883. -999. -99999.0  0.2235  0.52  0.29   0.00    0.0  15.0  303.6   2.0    0   0.00   48.   996.     2 NAD-SFC NoSubs
 9  9 17 260 18   18.9 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.51   0.00    0.0  15.0  302.5   2.0    0   0.00   52.   997.     2 NAD-SFC NoSubs
 9  9 17 260 19   -1.6  0.082 -9.000 -9.000 -999.   57.     31.5  0.2720  0.52  1.00   0.50  326.0  15.0  301.0   2.0    0   0.00   57.   997.     2 NAD-SFC NoSubs
 9  9 17 260 20   -1.4  0.079 -9.000 -9.000 -999.   53.     30.9  0.1950  0.52  1.00   0.50  236.0  15.0  299.5   2.0    0   0.00   63.   997.     2 NAD-SFC NoSubs
 9  9 17 260 21   -1.4  0.078 -9.000 -9.000 -999.   53.     30.7  0.1750  0.52  1.00   0.50  258.0  15.0  298.4   2.0    0   0.00   67.   997.     2 NAD-SFC NoSubs
 9  9 17 260 22   -3.8  0.100 -9.000 -9.000 -999.   76.     23.3  0.2720  0.52  1.00   1.00  307.0  15.0  297.4   2.0    0   0.00   70.   998.     2 NAD-SFC NoSubs
 9  9 17 260 23   -7.9  0.137 -9.000 -9.000 -999.  121.     29.0  0.2720  0.52  1.00   1.50  317.0  15.0  296.5   2.0    0   0.00   74.   998.     2 NAD-SFC NoSubs
 9  9 17 260 24   -8.2  0.140 -9.000 -9.000 -999.  125.     29.7  0.2930  0.52  1.00   1.50  338.0  15.0  295.8   2.0    0   0.00   77.   998.     2 NAD-SFC NoSubs
 9  9 18 261  1   -4.0  0.102 -9.000 -9.000 -999.   78.     23.6  0.2930  0.52  1.00   1.00  339.0  15.0  295.2   2.0    0   0.00   79.   998.     2 NAD-SFC NoSubs
 9  9 18 261  2   -1.6  0.084 -9.000 -9.000 -999.   58.     31.9  0.2930  0.52  1.00   0.50  340.0  15.0  294.6   2.0    0   0.00   82.   998.     2 NAD-SFC NoSubs
 9  9 18 261  3   -1.5  0.081 -9.000 -9.000 -999.   55.     31.3  0.2160  0.52  1.00   0.50  299.0  15.0  294.1   2.0    0   0.00   84.   998.     2 NAD-SFC NoSubs
 9  9 18 261  4   -1.5  0.081 -9.000 -9.000 -999.   55.     31.3  0.2160  0.52  1.00   0.50  290.0  15.0  293.8   2.0    0   0.00   85.   998.     2 NAD-SFC NoSubs
 9  9 18 261  5   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.2160  0.52  1.00   0.50  287.0  15.0  293.2   2.0    0   0.00   86.   998.     2 NAD-SFC NoSubs
 9  9 18 261  6   -1.6  0.084 -9.000 -9.000 -999.   58.     31.9  0.2930  0.52  1.00   0.50  331.0  15.0  293.0   2.0    0   0.00   85.   998.     2 NAD-SFC NoSubs
 9  9 18 261  7    0.8  0.061  0.059  0.016   10.   36.    -26.4  0.2470  0.52  0.42   0.50   49.0  15.0  292.9   2.0    0   0.00   85.   999.     2 NAD-SFC NoSubs
 9  9 18 261  8   47.7  0.154  0.538  0.012  116.  145.     -6.8  0.2720  0.52  0.26   1.00  317.0  15.0  295.1   2.0    0   0.00   74.   999.     2 NAD-SFC NoSubs
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9	9	18	261	9	91.1	0.167	0.850	0.011	240.	163.	-4.5	0.2720	0.52	0.21	1.00	305.0	15.0	297.5	2.0	0	0.00	66.	999.	2	NAD-SFC	NoSubs
9	9	18	261	10	125.3	0.114	1.096	0.010	374.	93.	-1.1	0.2720	0.52	0.20	0.50	300.0	15.0	300.0	2.0	0	0.00	55.	999.	2	NAD-SFC	NoSubs
9	9	18	261	11	148.5	-9.000	-9.000	-9.000	526.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.5	2.0	0	0.00	44.	998.	2	NAD-SFC	NoSubs
9	9	18	261	12	159.8	-9.000	-9.000	-9.000	656.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	304.6	2.0	0	0.00	36.	998.	2	NAD-SFC	NoSubs
9	9	18	261	13	158.9	-9.000	-9.000	-9.000	763.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	306.0	2.0	0	0.00	33.	997.	2	NAD-SFC	NoSubs
9	9	18	261	14	145.9	0.119	1.516	0.008	849.	99.	-1.0	0.2940	0.52	0.19	0.50	16.0	15.0	307.0	2.0	0	0.00	32.	996.	2	NAD-SFC	NoSubs
9	9	18	261	15	120.9	-9.000	-9.000	-9.000	915.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	307.6	2.0	0	0.00	31.	995.	2	NAD-SFC	NoSubs
9	9	18	261	16	84.7	-9.000	-9.000	-9.000	957.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	307.2	2.0	0	0.00	36.	995.	2	NAD-SFC	NoSubs
9	9	18	261	17	39.6	0.349	1.028	0.007	975.	495.	-95.4	0.2940	0.52	0.29	3.10	8.0	15.0	306.2	2.0	0	0.00	45.	995.	2	NAD-SFC	NoSubs
9	9	18	261	18	-17.3	0.414	-9.000	-9.000	-999.	639.	363.7	0.2940	0.52	0.52	4.10	4.0	15.0	304.6	2.0	0	0.00	51.	996.	2	NAD-SFC	NoSubs
9	9	18	261	19	-45.5	0.448	-9.000	-9.000	-999.	719.	175.5	0.2720	0.52	1.00	4.60	316.0	15.0	302.8	2.0	0	0.00	56.	997.	2	NAD-SFC	NoSubs
9	9	18	261	20	-40.7	0.397	-9.000	-9.000	-999.	603.	137.0	0.2720	0.52	1.00	4.10	309.0	15.0	300.4	2.0	0	0.00	61.	997.	2	NAD-SFC	NoSubs
9	9	18	261	21	-40.9	0.397	-9.000	-9.000	-999.	601.	136.3	0.2720	0.52	1.00	4.10	306.0	15.0	298.9	2.0	0	0.00	63.	998.	2	NAD-SFC	NoSubs
9	9	18	261	22	-35.9	0.347	-9.000	-9.000	-999.	492.	103.6	0.2720	0.52	1.00	3.60	317.0	15.0	297.9	2.0	0	0.00	65.	999.	2	NAD-SFC	NoSubs
9	9	18	261	23	-36.0	0.347	-9.000	-9.000	-999.	490.	103.2	0.2720	0.52	1.00	3.60	328.0	15.0	296.9	2.0	0	0.00	68.	999.	2	NAD-SFC	NoSubs
9	9	18	261	24	-36.9	0.354	-9.000	-9.000	-999.	506.	107.6	0.2930	0.52	1.00	3.60	349.0	15.0	296.2	2.0	0	0.00	70.	999.	2	NAD-SFC	NoSubs
9	9	19	262	1	-37.0	0.354	-9.000	-9.000	-999.	506.	107.3	0.2930	0.52	1.00	3.60	352.0	15.0	295.6	2.0	0	0.00	71.	1000.	2	NAD-SFC	NoSubs
9	9	19	262	2	-31.7	0.303	-9.000	-9.000	-999.	402.	78.4	0.2930	0.52	1.00	3.10	351.0	15.0	295.2	2.0	0	0.00	72.	1000.	2	NAD-SFC	NoSubs
9	9	19	262	3	-25.6	0.252	-9.000	-9.000	-999.	304.	55.5	0.2930	0.52	1.00	2.60	360.0	15.0	295.2	2.0	0	0.00	71.	1000.	2	NAD-SFC	NoSubs
9	9	19	262	4	-8.2	0.140	-9.000	-9.000	-999.	132.	29.7	0.2940	0.52	1.00	1.50	4.0	15.0	295.2	2.0	0	0.00	71.	1000.	2	NAD-SFC	NoSubs
9	9	19	262	5	-1.6	0.084	-9.000	-9.000	-999.	59.	31.9	0.2940	0.52	1.00	0.50	5.0	15.0	294.9	2.0	0	0.00	73.	1000.	2	NAD-SFC	NoSubs
9	9	19	262	6	-1.5	0.080	-9.000	-9.000	-999.	55.	31.2	0.2090	0.52	1.00	0.50	62.0	15.0	294.6	2.0	0	0.00	76.	1001.	2	NAD-SFC	NoSubs
9	9	19	262	7	0.7	0.101	0.064	0.011	14.	77.	-138.3	0.2090	0.52	0.43	1.00	67.0	15.0	294.2	2.0	0	0.00	79.	1001.	2	NAD-SFC	NoSubs
9	9	19	262	8	46.9	0.098	0.598	0.010	163.	73.	-1.8	0.2470	0.52	0.26	0.50	32.0	15.0	294.8	2.0	0	0.00	79.	1002.	2	NAD-SFC	NoSubs
9	9	19	262	9	89.9	0.169	0.908	0.008	298.	167.	-4.8	0.2930	0.52	0.21	1.00	348.0	15.0	295.9	2.0	0	0.00	73.	1002.	2	NAD-SFC	NoSubs
9	9	19	262	10	123.5	-9.000	-9.000	-9.000	431.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	297.5	2.0	0	0.00	64.	1002.	2	NAD-SFC	NoSubs
9	9	19	262	11	146.6	-9.000	-9.000	-9.000	593.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.0	2.0	0	0.00	54.	1002.	2	NAD-SFC	NoSubs
9	9	19	262	12	157.7	-9.000	-9.000	-9.000	744.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.9	2.0	0	0.00	48.	1001.	2	NAD-SFC	NoSubs
9	9	19	262	13	156.5	-9.000	-9.000	-9.000	878.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.2	2.0	0	0.00	44.	1000.	2	NAD-SFC	NoSubs
9	9	19	262	14	143.3	-9.000	-9.000	-9.000	983.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	304.1	2.0	0	0.00	41.	999.	2	NAD-SFC	NoSubs
9	9	19	262	15	118.2	0.115	1.518	0.007	1055.	94.	-1.2	0.2930	0.52	0.20	0.50	335.0	15.0	304.8	2.0	0	0.00	40.	999.	2	NAD-SFC	NoSubs
9	9	19	262	16	82.1	0.218	1.364	0.007	1101.	244.	-11.2	0.2940	0.52	0.22	1.50	14.0	15.0	304.6	2.0	0	0.00	44.	998.	2	NAD-SFC	NoSubs
9	9	19	262	17	37.0	0.348	1.052	0.007	1120.	492.	-101.0	0.2940	0.52	0.29	3.10	19.0	15.0	303.8	2.0	0	0.00	54.	998.	2	NAD-SFC	NoSubs
9	9	19	262	18	-19.1	0.360	-9.000	-9.000	-999.	518.	216.5	0.2940	0.52	0.53	3.60	16.0	15.0	302.5	2.0	0	0.00	59.	999.	2	NAD-SFC	NoSubs
9	9	19	262	19	-25.0	0.252	-9.000	-9.000	-999.	310.	57.0	0.2930	0.52	1.00	2.60	355.0	15.0	301.6	2.0	0	0.00	61.	1000.	3	NAD-SFC	NoSubs
9	9	19	262	20	-42.1	0.420	-9.000	-9.000	-999.	654.	157.3	0.2160	0.52	1.00	4.60	277.0	15.0	300.2	2.0	0	0.00	64.	1000.	3	NAD-SFC	NoSubs
9	9	19	262	21	-47.4	0.468	-9.000	-9.000	-999.	767.	192.9	0.2160	0.52	1.00	5.10	270.0	15.0	297.1	2.0	0	0.00	72.	1001.	3	NAD-SFC	NoSubs
9	9	19	262	22	-47.7	0.468	-9.000	-9.000	-999.	768.	191.8	0.2160	0.52	1.00	5.10	275.0	15.0	295.5	2.0	0	0.00	75.	1002.	3	NAD-SFC	NoSubs
9	9	19	262	23	-42.9	0.420	-9.000	-9.000	-999.	656.	154.2	0.2160	0.52	1.00	4.60	281.0	15.0	294.6	2.0	0	0.00	78.	1002.	3	NAD-SFC	NoSubs
9	9	19	262	24	-28.5	0.278	-9.000	-9.000	-999.	367.	67.6	0.2160	0.52	1.00	3.10	293.0	15.0	294.2	2.0	0	0.00	80.	1002.	3	NAD-SFC	NoSubs
9	9	20	263	1	-24.4	0.246	-9.000	-9.000	-999.	294.	54.6	0.2720	0.52	1.00	2.60	310.0	15.0	294.2	2.0	0	0.00	80.	1002.	3	NAD-SFC	NoSubs
9	9	20	263	2	-15.7	0.196	-9.000	-9.000	-999.	208.	42.6	0.2720	0.52	1.00	2.10	327.0	15.0	294.0	2.0	0	0.00	80.	1002.	3	NAD-SFC	NoSubs
9	9	20	263	3	-3.9	0.101	-9.000	-9.000	-999.	81.	23.7	0.2930	0.52	1.00	1.00	340.0	15.0	293.8	2.0	0	0.00	82.	1003.	3	NAD-SFC	NoSubs
9	9	20	263	4	-1.6	0.083	-9.000	-9.000	-999.	57.	31.7	0.2930	0.52	1.00	0.50	350.0	15.0	293.2	2.0	0	0.00	84.	1003.	3	NAD-SFC	NoSubs
9	9	20	263	5	-1.6	0.083	-9.000	-9.000	-999.	57.	31.7	0.2940	0.52	1.00	0.50	9.0	15.0	292.8	2.0	0	0.00	86.	1003.	3	NAD-SFC	NoSubs
9	9	20	263	6	-1.6	0.083	-9.000	-9.000	-999.	57.	31.7	0.2940	0.52	1.00	0.50	11.0	15.0	292.4	2.0	0	0.00	88.	1003.	3	NAD-SFC	NoSubs
9	9	20	263	7	0.9	0.064	0.080	0.008	19.	39.	-25.2	0.2930	0.52	0.43	0.50	349.0	15.0	292.2	2.0	0	0.00	89.	1004.	3	NAD-SFC	NoSubs
9	9	20	263	8	47.0	0.156	0.681	0.008	241.	148.	-7.2	0.2930	0.52	0.26	1.00	337.0	15.0	293.8	2.0	0	0.00	78.	1004.	3	NAD-SFC	NoSubs
9	9	20	263	9	89.0	-9.000	-9.000	-9.000	368.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	295.5	2.0	0	0.00	71.	1004.	2	NAD-SFC	NoSubs
9	9	20	263	10	122.7	-9.000	-9.000	-9.000	515.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	297.1	2.0	0	0.00	66.	1003.	2	NAD-SFC	NoSubs
9	9	20	263	11	145.3	-9.000	-9.000	-9.000	652.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.8	2.0	0	0.00	61.	1003.	2	NAD-SFC	NoSubs
9	9	20	263	12	156.1	-9.000	-9.000	-9.000	794.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.2	2.0	0	0.00	57.	1002.	2	NAD-SFC	NoSubs
9	9	20	263	13	154.8	-9.000	-9.000	-9.000	916.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.5	2.0	0	0.00	53.	1001.	2	NAD-SFC	NoSubs
9	9	20	263	14	141.5	0.116	1.584	0.010	1003.	95.	-1.0	0.2720	0.52	0.19	0.50	329.0	15.0	302.6	2.0	0	0.00	49.	1000.	2	NAD-SFC	NoSubs
9	9	20	263	15	116.3	0.175	1.510	0.010	1056.	176.	-4.1	0.2930	0.52	0.20	1.00	350.0	15.0	303.2	2.0	0	0.00	46.	1000.	2	NAD-SFC	NoSubs
9	9	20	263	16	80.3	0.274	1.350	0.010	1092.	344.	-22.8	0.2940	0.52	0.22	2.10	3.0	15.0	303.5	2.0	0	0.00	45.	999.	2	NAD-SFC	NoSubs
9	9	20	263	17	35.5	0.255	1.033	0.010	1107.	309.	-41.6	0.2940	0.52	0.30	2.10	12.0	15.0	303.1	2.0	0	0.00	53.	999.	2	NAD-SFC	NoSubs
9	9	20	263	18	-18.2	0.307	-9.000	-9.000	-999.	409.	141.7	0.2940	0.52	0.54	3.10	25.0	15.0	302.1	2.0	0	0.00	57.	1000.	2	NAD-SFC	NoSubs
9	9	20	263	19	-25.4	0.252	-9.000	-9.000	-999.	305.	56.2	0.2940	0.52	1.00	2.60	14.0	15.0	300.8	2.0	0	0.00	62.	1000.	2	NAD-SFC	NoSubs
9	9	20	263	20	-28.7	0.278	-9.000	-9.000	-999.	352.	67.0	0.2160	0.52	1.00	3.10	291.0	15.0	299.6	2.0	0	0.00	64.	1001.	2	NAD-SFC	NoSubs
9	9	20	263	21	-43.8	0.420	-9.000	-9.000	-999.	653.	151.0	0.2160	0.52	1.00	4.60	277.0	15.0	296.2	2.0	0	0.00	72.	1001.	2	NAD-SFC	NoSubs
9	9	20	263	22	-34.1	0.325	-9.000	-9.000	-999.	451.	90.1	0.2160	0.52	1.00	3.60	277.0	15.0	294.8	2.0	0	0.00	73.	1002.	2	NAD-SFC	NoSubs
9	9	20	263	23	-29.3	0.278	-9.000	-9.000	-999.	353.	65.6	0.2160	0.52	1.00	3.10	287.0	15.0	293.8	2.0	0	0.00	76.	1002.	2	NAD-SFC	NoSubs
9	9	20	263	24	-24.8	0.246	-9.000	-9.000	-999.	293.	53.7	0.2720	0.52	1.00	2.60	310.0	15.0	293.1	2.0	0	0.00	78.	1002.	2	NAD-SFC	NoSubs
9	9	21	264	1	-15.9	0.195	-9.000	-9.000	-999.	208.	41.9	0.2720	0.52	1.00	2.10	316.0	15.0	292.6	2.0	0	0.00	79.	1002.	2	NAD-SFC	NoSubs
9	9	21	264	2	-8.0	0.137	-9.000	-9.000	-999.	122.	28.7	0.2720	0.52	1.00	1.50	309.0	15.0	292.2	2.0	0	0.00	79.	1003.	2	NAD-SFC	NoSubs
9	9	21	264	3	-7.2	0.129	-9.000	-9.000	-999.	111.	26.5	0.2160	0.52	1.00	1.50	277.0	15.0	292.2	2.0	0	0.00	78.	1003.	2	NAD-SFC	NoSubs
9	9	21	264	4	-3.4	0.093	-9.000	-9.000	-999.	69.	21.7	0.1750	0.52	1.00	1.00	258.0	15.0	292.0	2.0	0	0.00	78.	1003.	2	NAD-SFC	NoSubs
9	9	21	264	5	-1.4	0.079	-9.000	-9.000	-999.	53.	30.9	0.1750	0.52	1.00	0.50	259.0	15.0	291.8	2.0	0	0.00	80.	1004.	2	NAD-SFC	NoSubs
9	9	21	264	6	-1.5	0.081	-9.000	-9.000	-999.	55.	31.4	0.2160	0.52	1.00	0.50	282.0	15.0	291.5	2.0	0	0.00	83.	1004.	2	NAD-SFC	NoSubs
9	9	21	264	7	21.8	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.44	0.00	0.0	15.0	291.2	2.0	0	0.00	85.	1005.	2	NAD-SFC	NoSubs
9	9	21	264	8	45.1	0.101	0.638	0.009	206.	77.	-2.1	0.2930	0.52	0.26	0.50	333.0	15.0	293.2	2.0	0	0.00	82.	1005.	2	NAD-SFC	NoSubs
9	9	21	264	9	88.2	-9.000	-9.000	-9.000	325.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	295.2	2.0	0	0.00	77.	1005.	2	NAD-SFC	NoSubs
9	9	21	264	10	122.0	-9.000	-9.000	-9.000	459.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	297.2	2.0	0	0.00	70.	1005.	2	NAD-SFC	NoSubs
9	9	21	264	11	144.7	-9.000	-9.000	-9.000	603.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.1	2.0	0	0.00	64.	1004.	2	NAD-SFC	NoSubs
9	9	21	264	12	155.7	-9.000	-9.000	-9.000	753.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.2	2.0	0	0.00	53.	1003.	2	NAD-SFC	NoSubs
9	9	21	264	13	154.5	-9.000	-9.000	-9.000	894.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.8	2.0	0	0.00	46.	1002.	2	NAD-SFC	NoSubs

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 9  9 21 264 14   141.1  0.118  1.573  0.012  988.   98.     -1.0  0.2930  0.52  0.19  0.50  357.0  15.0  303.8  2.0   0  0.00  41.  1002.   2 NAD-SFC NoSubs
 9  9 21 264 15   115.9  0.175  1.494  0.012 1028.  176.     -4.1  0.2940  0.52  0.20  1.00   13.0  15.0  304.4  2.0   0  0.00  39.  1001.   2 NAD-SFC NoSubs
 9  9 21 264 16    79.6  0.274  1.329  0.012 1054.  344.    -23.0  0.2940  0.52  0.22  2.10   18.0  15.0  304.4  2.0   0  0.00  41.  1001.   2 NAD-SFC NoSubs
 9  9 21 264 17    34.6  0.300  1.010  0.012 1065.  394.    -69.7  0.2940  0.52  0.30  2.60   28.0  15.0  303.8  2.0   0  0.00  51.  1001.   2 NAD-SFC NoSubs
 9  9 21 264 18   -21.6  0.341 -9.000 -9.000 -999.  478.    163.6  0.2470  0.52  0.55  3.60   32.0  15.0  302.8  2.0   0  0.00  56.  1001.   2 NAD-SFC NoSubs
 9  9 21 264 19   -29.6  0.289 -9.000 -9.000 -999.  374.     72.6  0.2470  0.52  1.00  3.10   32.0  15.0  301.4  2.0   0  0.00  59.  1002.   2 NAD-SFC NoSubs
 9  9 21 264 20    -1.5  0.081 -9.000 -9.000 -999.  122.     31.4  0.2470  0.52  1.00  0.50   32.0  15.0  300.2  2.0   0  0.00  63.  1002.   2 NAD-SFC NoSubs
 9  9 21 264 21    -3.3  0.093 -9.000 -9.000 -999.   68.     21.6  0.1750  0.52  1.00  1.00  255.0  15.0  298.8  2.0   0  0.00  69.  1003.   2 NAD-SFC NoSubs
 9  9 21 264 22   -28.9  0.278 -9.000 -9.000 -999.  352.     66.6  0.2160  0.52  1.00  3.10  295.0  15.0  297.8  2.0   0  0.00  73.  1003.   2 NAD-SFC NoSubs
 9  9 21 264 23   -31.0  0.297 -9.000 -9.000 -999.  388.     75.4  0.2720  0.52  1.00  3.10  313.0  15.0  296.8  2.0   0  0.00  76.  1004.   2 NAD-SFC NoSubs
 9  9 21 264 24   -15.9  0.195 -9.000 -9.000 -999.  212.     42.2  0.2720  0.52  1.00  2.10  319.0  15.0  296.1  2.0   0  0.00  77.  1004.   2 NAD-SFC NoSubs
 9  9 22 265  1    -3.6  0.096 -9.000 -9.000 -999.   77.     22.4  0.2160  0.52  1.00  1.00  280.0  15.0  295.5  2.0   0  0.00  78.  1004.   2 NAD-SFC NoSubs
 9  9 22 265  2   -13.1  0.173 -9.000 -9.000 -999.  173.     35.6  0.1750  0.52  1.00  2.10  252.0  15.0  295.0  2.0   0  0.00  80.  1004.   2 NAD-SFC NoSubs
 9  9 22 265  3   -20.4  0.218 -9.000 -9.000 -999.  245.     45.6  0.1750  0.52  1.00  2.60  264.0  15.0  294.6  2.0   0  0.00  80.  1004.   2 NAD-SFC NoSubs
 9  9 22 265  4   -20.4  0.218 -9.000 -9.000 -999.  245.     45.6  0.1750  0.52  1.00  2.60  265.0  15.0  294.1  2.0   0  0.00  79.  1004.   2 NAD-SFC NoSubs
 9  9 22 265  5   -14.3  0.183 -9.000 -9.000 -999.  188.     38.3  0.2160  0.52  1.00  2.10  271.0  15.0  293.4  2.0   0  0.00  78.  1004.   2 NAD-SFC NoSubs
 9  9 22 265  6    -7.2  0.129 -9.000 -9.000 -999.  111.     26.6  0.2160  0.52  1.00  1.50  275.0  15.0  292.8  2.0   0  0.00  77.  1005.   2 NAD-SFC NoSubs
 9  9 22 265  7    -1.5  0.137 -9.000 -9.000 -999.  122.    154.0  0.2160  0.52  0.44  1.50  286.0  15.0  292.2  2.0   0  0.00  76.  1005.   2 NAD-SFC NoSubs
 9  9 22 265  8    44.9  0.191  0.547  0.009  130.  200.    -13.9  0.2160  0.52  0.27  1.50  291.0  15.0  294.4  2.0   0  0.00  61.  1005.   2 NAD-SFC NoSubs
 9  9 22 265  9    88.0  0.158  0.869  0.008  267.  150.     -4.0  0.2160  0.52  0.21  1.00  294.0  15.0  296.5  2.0   0  0.00  53.  1005.   2 NAD-SFC NoSubs
 9  9 22 265 10   122.0  0.114  1.136  0.008  431.   92.     -1.1  0.2720  0.52  0.20  0.50  302.0  15.0  298.9  2.0   0  0.00  44.  1004.   2 NAD-SFC NoSubs
 9  9 22 265 11   144.8 -9.000 -9.000 -9.000  594. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.2  2.0   0  0.00  36.  1004.   2 NAD-SFC NoSubs
 9  9 22 265 12   155.6 -9.000 -9.000 -9.000  722. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  302.8  2.0   0  0.00  32.  1003.   2 NAD-SFC NoSubs
 9  9 22 265 13   154.2  0.181  1.525  0.008  824.  185.     -3.4  0.2940  0.52  0.19  1.00   23.0  15.0  304.0  2.0   0  0.00  30.  1003.   2 NAD-SFC NoSubs
 9  9 22 265 14   140.6  0.231  1.528  0.007  908.  267.     -7.8  0.2940  0.52  0.19  1.50   22.0  15.0  304.8  2.0   0  0.00  30.  1002.   2 NAD-SFC NoSubs
 9  9 22 265 15   115.1  0.330  1.461  0.007  970.  455.    -27.9  0.2940  0.52  0.20  2.60   22.0  15.0  305.0  2.0   0  0.00  31.  1002.   2 NAD-SFC NoSubs
 9  9 22 265 16    77.8  0.319  1.301  0.007 1014.  433.    -37.3  0.2940  0.52  0.22  2.60   20.0  15.0  303.2  2.0   0  0.00  34.  1002.   2 NAD-SFC NoSubs
 9  9 22 265 17    32.7  0.299  0.981  0.006 1032.  392.    -72.8  0.2940  0.52  0.30  2.60   16.0  15.0  302.5  2.0   0  0.00  42.  1002.   2 NAD-SFC NoSubs
 9  9 22 265 18   -21.4  0.306 -9.000 -9.000 -999.  407.    119.9  0.2940  0.52  0.56  3.10   21.0  15.0  301.6  2.0   0  0.00  42.  1002.   2 NAD-SFC NoSubs
 9  9 22 265 19   -23.4  0.239 -9.000 -9.000 -999.  283.     52.4  0.2470  0.52  1.00  2.60   31.0  15.0  300.4  2.0   0  0.00  43.  1002.   2 NAD-SFC NoSubs
 9  9 22 265 20    -1.5  0.081 -9.000 -9.000 -999.   84.     31.4  0.2470  0.52  1.00  0.50   30.0  15.0  298.9  2.0   0  0.00  48.  1002.   2 NAD-SFC NoSubs
 9  9 22 265 21    -3.4  0.094 -9.000 -9.000 -999.   69.     21.9  0.1900  0.52  1.00  1.00  198.0  15.0  297.2  2.0   0  0.00  55.  1002.   2 NAD-SFC NoSubs
 9  9 22 265 22    -6.8  0.125 -9.000 -9.000 -999.  106.     25.6  0.1900  0.52  1.00  1.50  190.0  15.0  296.2  2.0   0  0.00  59.  1002.   2 NAD-SFC NoSubs
 9  9 22 265 23    -1.4  0.079 -9.000 -9.000 -999.   53.     30.9  0.1810  0.52  1.00  0.50  157.0  15.0  295.6  2.0   0  0.00  59.  1003.   2 NAD-SFC NoSubs
 9  9 22 265 24    -1.6  0.082 -9.000 -9.000 -999.   56.     31.6  0.2470  0.52  1.00  0.50   40.0  15.0  294.5  2.0   0  0.00  61.  1003.   2 NAD-SFC NoSubs
 9  9 23 266  1    -8.3  0.140 -9.000 -9.000 -999.  126.     29.6  0.2940  0.52  1.00  1.50    2.0  15.0  293.2  2.0   0  0.00  66.  1003.   2 NAD-SFC NoSubs
 9  9 23 266  2   -16.5  0.200 -9.000 -9.000 -999.  214.     43.2  0.2930  0.52  1.00  2.10  335.0  15.0  292.8  2.0   0  0.00  69.  1003.   2 NAD-SFC NoSubs
 9  9 23 266  3   -22.4  0.231 -9.000 -9.000 -999.  266.     49.1  0.2160  0.52  1.00  2.60  298.0  15.0  292.6  2.0   0  0.00  67.  1004.   2 NAD-SFC NoSubs
 9  9 23 266  4   -22.4  0.231 -9.000 -9.000 -999.  266.     49.0  0.2160  0.52  1.00  2.60  288.0  15.0  292.2  2.0   0  0.00  64.  1004.   2 NAD-SFC NoSubs
 9  9 23 266  5    -8.0  0.137 -9.000 -9.000 -999.  125.     28.7  0.2720  0.52  1.00  1.50  304.0  15.0  291.9  2.0   0  0.00  62.  1004.   2 NAD-SFC NoSubs
 9  9 23 266  6    -1.6  0.083 -9.000 -9.000 -999.   58.     31.9  0.2720  0.52  1.00  0.50  316.0  15.0  291.5  2.0   0  0.00  61.  1004.   2 NAD-SFC NoSubs
 9  9 23 266  7    -0.4  0.046 -9.000 -9.000 -999.   24.     25.2  0.2720  0.52  0.44  0.50  323.0  15.0  291.2  2.0   0  0.00  61.  1005.   2 NAD-SFC NoSubs
 9  9 23 266  8    43.7  0.191  0.506  0.009  106.  200.    -14.2  0.2160  0.52  0.27  1.50  286.0  15.0  293.0  2.0   0  0.00  49.  1005.   2 NAD-SFC NoSubs
 9  9 23 266  9    86.7  0.205  0.776  0.009  193.  223.     -8.9  0.2160  0.52  0.21  1.50  283.0  15.0  294.9  2.0   0  0.00  45.  1004.   2 NAD-SFC NoSubs
 9  9 23 266 10   120.6  0.108  1.059  0.008  352.   89.     -1.0  0.2160  0.52  0.20  0.50  274.0  15.0  297.5  2.0   0  0.00  39.  1004.   2 NAD-SFC NoSubs
 9  9 23 266 11   143.5 -9.000 -9.000 -9.000  519. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  299.9  2.0   0  0.00  34.  1004.   2 NAD-SFC NoSubs
 9  9 23 266 12   154.2 -9.000 -9.000 -9.000  664. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.8  2.0   0  0.00  29.  1003.   2 NAD-SFC NoSubs
 9  9 23 266 13   152.7  0.181  1.500  0.006  790.  185.     -3.5  0.2940  0.52  0.19  1.00   16.0  15.0  302.9  2.0   0  0.00  28.  1002.   2 NAD-SFC NoSubs
 9  9 23 266 14   139.0  0.289  1.511  0.006  889.  373.    -15.5  0.2940  0.52  0.20  2.10   22.0  15.0  303.5  2.0   0  0.00  29.  1002.   2 NAD-SFC NoSubs
 9  9 23 266 15   113.3  0.330  1.450  0.005  963.  454.    -28.2  0.2940  0.52  0.20  2.60   16.0  15.0  303.8  2.0   0  0.00  30.  1001.   2 NAD-SFC NoSubs
 9  9 23 266 16    76.6  0.307  1.298  0.005 1020.  408.    -33.6  0.2470  0.52  0.23  2.60   30.0  15.0  303.2  2.0   0  0.00  35.  1001.   2 NAD-SFC NoSubs
 9  9 23 266 17    31.6  0.287  0.974  0.005 1043.  369.    -66.6  0.2470  0.52  0.31  2.60   35.0  15.0  302.8  2.0   0  0.00  42.  1001.   2 NAD-SFC NoSubs
 9  9 23 266 18   -12.9  0.193 -9.000 -9.000 -999.  207.     49.6  0.2470  0.52  0.58  2.10   41.0  15.0  301.8  2.0   0  0.00  42.  1001.   2 NAD-SFC NoSubs
 9  9 23 266 19    -1.5  0.080 -9.000 -9.000 -999.   64.     31.0  0.2090  0.52  1.00  0.50   74.0  15.0  300.4  2.0   0  0.00  45.  1001.   2 NAD-SFC NoSubs
 9  9 23 266 20    -6.8  0.126 -9.000 -9.000 -999.  107.     25.9  0.1950  0.52  1.00  1.50  218.0  15.0  298.8  2.0   0  0.00  51.  1001.   2 NAD-SFC NoSubs
 9  9 23 266 21   -27.9  0.269 -9.000 -9.000 -999.  335.     62.2  0.1900  0.52  1.00  3.10  206.0  15.0  297.8  2.0   0  0.00  54.  1001.   2 NAD-SFC NoSubs
 9  9 23 266 22    -6.8  0.125 -9.000 -9.000 -999.  121.     25.6  0.1900  0.52  1.00  1.50  186.0  15.0  296.8  2.0   0  0.00  54.  1002.   2 NAD-SFC NoSubs
 9  9 23 266 23    -3.7  0.099 -9.000 -9.000 -999.   74.     22.9  0.2470  0.52  1.00  1.00   54.0  15.0  295.2  2.0   0  0.00  59.  1002.   2 NAD-SFC NoSubs
 9  9 23 266 24    -8.2  0.140 -9.000 -9.000 -999.  126.     29.7  0.2940  0.52  1.00  1.50   28.0  15.0  294.0  2.0   0  0.00  64.  1002.   2 NAD-SFC NoSubs
 9  9 24 267  1    -8.3  0.140 -9.000 -9.000 -999.  126.     29.6  0.2940  0.52  1.00  1.50   21.0  15.0  293.2  2.0   0  0.00  67.  1002.   2 NAD-SFC NoSubs
 9  9 24 267  2    -1.6  0.084 -9.000 -9.000 -999.   59.     32.0  0.2930  0.52  1.00  0.50  352.0  15.0  292.9  2.0   0  0.00  68.  1002.   2 NAD-SFC NoSubs
 9  9 24 267  3    -3.9  0.101 -9.000 -9.000 -999.   77.     23.3  0.2720  0.52  1.00  1.00  301.0  15.0  292.5  2.0   0  0.00  69.  1002.   2 NAD-SFC NoSubs
 9  9 24 267  4   -14.3  0.183 -9.000 -9.000 -999.  188.     38.2  0.2160  0.52  1.00  2.10  291.0  15.0  292.2  2.0   0  0.00  69.  1002.   2 NAD-SFC NoSubs
 9  9 24 267  5   -29.5  0.278 -9.000 -9.000 -999.  352.     65.2  0.2160  0.52  1.00  3.10  288.0  15.0  291.9  2.0   0  0.00  69.  1003.   2 NAD-SFC NoSubs
 9  9 24 267  6   -24.9  0.246 -9.000 -9.000 -999.  293.     53.5  0.2720  0.52  1.00  2.60  301.0  15.0  291.6  2.0   0  0.00  69.  1003.   2 NAD-SFC NoSubs
 9  9 24 267  7    -3.6  0.192 -9.000 -9.000 -999.  203.    176.1  0.2160  0.52  0.45  2.10  297.0  15.0  291.4  2.0   0  0.00  68.  1003.   2 NAD-SFC NoSubs
 9  9 24 267  8    43.1  0.200  0.481  0.009   92.  215.    -16.6  0.2720  0.52  0.27  1.50  320.0  15.0  293.2  2.0   0  0.00  59.  1004.   2 NAD-SFC NoSubs
 9  9 24 267  9    86.1  0.103  0.776  0.010  194.   84.     -1.1  0.2160  0.52  0.22  0.50  291.0  15.0  295.1  2.0   0  0.00  54.  1003.   2 NAD-SFC NoSubs
 9  9 24 267 10   119.9  0.108  1.049  0.008  345.   85.     -1.0  0.2160  0.52  0.20  0.50  282.0  15.0  297.4  2.0   0  0.00  47.  1003.   2 NAD-SFC NoSubs
 9  9 24 267 11   142.7 -9.000 -9.000 -9.000  517. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  299.9  2.0   0  0.00  39.  1003.   2 NAD-SFC NoSubs
 9  9 24 267 12   153.3 -9.000 -9.000 -9.000  671. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.5  2.0   0  0.00  35.  1002.   2 NAD-SFC NoSubs
 9  9 24 267 13   151.7 -9.000 -9.000 -9.000  786. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  302.8  2.0   0  0.00  33.  1001.   2 NAD-SFC NoSubs
 9  9 24 267 14   138.0 -9.000 -9.000 -9.000  878. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  303.8  2.0   0  0.00  31.  1000.   2 NAD-SFC NoSubs
 9  9 24 267 15   112.6  0.168  1.440  0.005  946.  165.     -3.7  0.2470  0.52  0.20  1.00   44.0  15.0  304.4  2.0   0  0.00  30.  1000.   2 NAD-SFC NoSubs
 9  9 24 267 16    75.9  0.262  1.286  0.005  998.  323.    -21.2  0.2470  0.52  0.23  2.10   36.0  15.0  304.2  2.0   0  0.00  32.   999.   2 NAD-SFC NoSubs
 9  9 24 267 17    30.9  0.243  0.961  0.005 1022.  287.    -41.2  0.2470  0.52  0.31  2.10   38.0  15.0  303.8  2.0   0  0.00  40.   999.   2 NAD-SFC NoSubs
 9  9 24 267 18    -6.5  0.134 -9.000 -9.000 -999.  123.     32.8  0.2470  0.52  0.59  1.50   41.0  15.0  302.6  2.0   0  0.00  44.   999.   2 NAD-SFC NoSubs
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 9  9 24 267 19   -1.4  0.079 -9.000 -9.000 -999.   54.     30.8  0.1900  0.52  1.00   0.50  206.0  15.0  300.9  2.0   0  0.00   50.   999.    2 NAD-SFC NoSubs
 9  9 24 267 20   -6.8  0.126 -9.000 -9.000 -999.  107.     25.9  0.1950  0.52  1.00   1.50  216.0  15.0  299.4  2.0   0  0.00   55.  1000.    2 NAD-SFC NoSubs
 9  9 24 267 21  -21.1  0.224 -9.000 -9.000 -999.  255.     47.8  0.1950  0.52  1.00   2.60  228.0  15.0  298.6  2.0   0  0.00   54.  1000.    2 NAD-SFC NoSubs
 9  9 24 267 22  -28.8  0.278 -9.000 -9.000 -999.  352.     66.5  0.2160  0.52  1.00   3.10  271.0  15.0  297.5  2.0   0  0.00   57.  1000.    2 NAD-SFC NoSubs
 9  9 24 267 23   -7.9  0.137 -9.000 -9.000 -999.  136.     28.9  0.2720  0.52  1.00   1.50  306.0  15.0  296.1  2.0   0  0.00   63.  1000.    2 NAD-SFC NoSubs
 9  9 24 267 24   -8.2  0.140 -9.000 -9.000 -999.  125.     29.7  0.2930  0.52  1.00   1.50  346.0  15.0  295.4  2.0   0  0.00   67.  1001.    2 NAD-SFC NoSubs
 9  9 25 268  1   -4.0  0.102 -9.000 -9.000 -999.   78.     23.6  0.2930  0.52  1.00   1.00  347.0  15.0  294.8  2.0   0  0.00   69.  1001.    2 NAD-SFC NoSubs
 9  9 25 268  2   -1.6  0.083 -9.000 -9.000 -999.   57.     31.8  0.2720  0.52  1.00   0.50  300.0  15.0  294.2  2.0   0  0.00   72.  1001.    2 NAD-SFC NoSubs
 9  9 25 268  3   -3.3  0.093 -9.000 -9.000 -999.   68.     21.7  0.1750  0.52  1.00   1.00  247.0  15.0  293.8  2.0   0  0.00   73.  1001.    2 NAD-SFC NoSubs
 9  9 25 268  4   -6.6  0.122 -9.000 -9.000 -999.  103.     24.8  0.1750  0.52  1.00   1.50  254.0  15.0  293.1  2.0   0  0.00   75.  1002.    2 NAD-SFC NoSubs
 9  9 25 268  5   -7.2  0.129 -9.000 -9.000 -999.  111.     26.5  0.2160  0.52  1.00   1.50  272.0  15.0  292.5  2.0   0  0.00   77.  1002.    2 NAD-SFC NoSubs
 9  9 25 268  6   -7.2  0.129 -9.000 -9.000 -999.  111.     26.5  0.2160  0.52  1.00   1.50  287.0  15.0  291.9  2.0   0  0.00   80.  1003.    2 NAD-SFC NoSubs
 9  9 25 268  7   -3.0  0.135 -9.000 -9.000 -999.  119.     74.3  0.2160  0.52  0.45   1.50  296.0  15.0  291.5  2.0   0  0.00   84.  1003.    2 NAD-SFC NoSubs
 9  9 25 268  8   42.4  0.152  0.514  0.012  114.  142.     -7.4  0.2720  0.52  0.27   1.00  329.0  15.0  293.0  2.0   0  0.00   81.  1003.    2 NAD-SFC NoSubs
 9  9 25 268  9   85.4 -9.000 -9.000 -9.000  234. -999. -99999.0  0.2235  0.52  0.22   0.00    0.0  15.0  295.2  2.0   0  0.00   74.  1003.    2 NAD-SFC NoSubs
 9  9 25 268 10  119.2 -9.000 -9.000 -9.000  364. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  297.8  2.0   0  0.00   64.  1003.    2 NAD-SFC NoSubs
 9  9 25 268 11  141.8 -9.000 -9.000 -9.000  509. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  299.9  2.0   0  0.00   53.  1003.    2 NAD-SFC NoSubs
 9  9 25 268 12  152.4 -9.000 -9.000 -9.000  636. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  301.5  2.0   0  0.00   48.  1002.    2 NAD-SFC NoSubs
 9  9 25 268 13  150.9 -9.000 -9.000 -9.000  725. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  303.0  2.0   0  0.00   44.  1001.    2 NAD-SFC NoSubs
 9  9 25 268 14  137.2  0.179  1.450  0.009  794.  181.     -3.7  0.2930  0.52  0.20   1.00  355.0  15.0  304.0  2.0   0  0.00   40.  1001.    2 NAD-SFC NoSubs
 9  9 25 268 15  111.5  0.225  1.383  0.008  846.  256.     -9.1  0.2940  0.52  0.20   1.50   11.0  15.0  304.6  2.0   0  0.00   38.  1000.    2 NAD-SFC NoSubs
 9  9 25 268 16   74.9  0.272  1.227  0.008  879.  341.    -24.0  0.2940  0.52  0.23   2.10   22.0  15.0  304.6  2.0   0  0.00   40.  1000.    2 NAD-SFC NoSubs
 9  9 25 268 17   30.0  0.242  0.908  0.008  891.  286.    -42.2  0.2470  0.52  0.31   2.10   31.0  15.0  304.2  2.0   0  0.00   47.  1000.    2 NAD-SFC NoSubs
 9  9 25 268 18   -7.2  0.141 -9.000 -9.000 -999.  131.     34.3  0.2940  0.52  0.60   1.50   28.0  15.0  303.1  2.0   0  0.00   50.  1000.    2 NAD-SFC NoSubs
 9  9 25 268 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  301.4  2.0   0  0.00   56.  1001.    2 NAD-SFC NoSubs
 9  9 25 268 20   -3.4  0.094 -9.000 -9.000 -999.   70.     22.0  0.1950  0.52  1.00   1.00  230.0  15.0  299.8  2.0   0  0.00   62.  1001.    2 NAD-SFC NoSubs
 9  9 25 268 21   -1.4  0.079 -9.000 -9.000 -999.   53.     30.9  0.1950  0.52  1.00   0.50  237.0  15.0  298.8  2.0   0  0.00   66.  1001.    2 NAD-SFC NoSubs
 9  9 25 268 22   -1.5  0.080 -9.000 -9.000 -999.   54.     31.1  0.2090  0.52  1.00   0.50   71.0  15.0  297.5  2.0   0  0.00   70.  1001.    2 NAD-SFC NoSubs
 9  9 25 268 23   -3.5  0.096 -9.000 -9.000 -999.   71.     22.3  0.2090  0.52  1.00   1.00   78.0  15.0  296.4  2.0   0  0.00   75.  1002.    2 NAD-SFC NoSubs
 9  9 25 268 24   -1.5  0.080 -9.000 -9.000 -999.   55.     31.2  0.2090  0.52  1.00   0.50   88.0  15.0  295.5  2.0   0  0.00   78.  1002.    2 NAD-SFC NoSubs
 9  9 26 269  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  294.8  2.0   0  0.00   78.  1002.    2 NAD-SFC NoSubs
 9  9 26 269  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  294.1  2.0   0  0.00   79.  1002.    2 NAD-SFC NoSubs
 9  9 26 269  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  293.8  2.0   0  0.00   79.  1003.    2 NAD-SFC NoSubs
 9  9 26 269  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  293.2  2.0   0  0.00   80.  1003.    2 NAD-SFC NoSubs
 9  9 26 269  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  292.9  2.0   0  0.00   81.  1003.    2 NAD-SFC NoSubs
 9  9 26 269  6   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.2160  0.52  1.00   0.50  284.0  15.0  292.6  2.0   0  0.00   82.  1004.    2 NAD-SFC NoSubs
 9  9 26 269  7   -0.4  0.047 -9.000 -9.000 -999.   24.     22.4  0.2160  0.52  0.46   0.50  283.0  15.0  292.6  2.0   0  0.00   81.  1004.    2 NAD-SFC NoSubs
 9  9 26 269  8   42.3  0.144  0.470  0.013   88.  132.     -6.4  0.2160  0.52  0.27   1.00  294.0  15.0  294.9  2.0   0  0.00   71.  1004.    2 NAD-SFC NoSubs
 9  9 26 269  9   85.5  0.157  0.799  0.011  214.  149.     -4.1  0.2160  0.52  0.22   1.00  273.0  15.0  297.2  2.0   0  0.00   63.  1004.    2 NAD-SFC NoSubs
 9  9 26 269 10  119.4  0.105  1.076  0.011  374.   83.     -1.0  0.1950  0.52  0.20   0.50  239.0  15.0  299.9  2.0   0  0.00   53.  1004.    2 NAD-SFC NoSubs
 9  9 26 269 11  142.1  0.108  1.252  0.011  496.   85.     -1.0  0.1950  0.52  0.19   0.50  223.0  15.0  302.2  2.0   0  0.00   42.  1004.    2 NAD-SFC NoSubs
 9  9 26 269 12  152.7 -9.000 -9.000 -9.000  600. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  303.9  2.0   0  0.00   36.  1003.    2 NAD-SFC NoSubs
 9  9 26 269 13  151.1 -9.000 -9.000 -9.000  692. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  305.2  2.0   0  0.00   33.  1002.    2 NAD-SFC NoSubs
 9  9 26 269 14  137.3  0.113  1.437  0.008  773.   91.     -1.0  0.2470  0.52  0.20   0.50   41.0  15.0  306.2  2.0   0  0.00   31.  1001.    2 NAD-SFC NoSubs
 9  9 26 269 15  111.6  0.168  1.375  0.007  832.  165.     -3.8  0.2470  0.52  0.20   1.00   45.0  15.0  306.8  2.0   0  0.00   31.  1001.    2 NAD-SFC NoSubs
 9  9 26 269 16   74.6  0.262  1.220  0.007  869.  322.    -21.5  0.2470  0.52  0.23   2.10   44.0  15.0  306.2  2.0   0  0.00   37.  1000.    2 NAD-SFC NoSubs
 9  9 26 269 17   29.4  0.330  0.900  0.007  882.  455.   -108.8  0.2470  0.52  0.32   3.10   40.0  15.0  305.5  2.0   0  0.00   45.  1000.    2 NAD-SFC NoSubs
 9  9 26 269 18  -27.9  0.339 -9.000 -9.000 -999.  474.    124.4  0.2470  0.52  0.61   3.60   37.0  15.0  304.2  2.0   0  0.00   48.  1000.    2 NAD-SFC NoSubs
 9  9 26 269 19   -7.5  0.133 -9.000 -9.000 -999.  164.     28.2  0.2470  0.52  1.00   1.50   33.0  15.0  302.8  2.0   0  0.00   51.  1001.    2 NAD-SFC NoSubs
 9  9 26 269 20  -12.9  0.173 -9.000 -9.000 -999.  173.     36.0  0.1750  0.52  1.00   2.10  257.0  15.0  301.0  2.0   0  0.00   58.  1001.    2 NAD-SFC NoSubs
 9  9 26 269 21  -31.7  0.308 -9.000 -9.000 -999.  411.     82.5  0.1750  0.52  1.00   3.60  269.0  15.0  300.2  2.0   0  0.00   59.  1001.    2 NAD-SFC NoSubs
 9  9 26 269 22  -33.6  0.325 -9.000 -9.000 -999.  445.     91.6  0.2160  0.52  1.00   3.60  292.0  15.0  299.1  2.0   0  0.00   60.  1001.    2 NAD-SFC NoSubs
 9  9 26 269 23   -8.2  0.140 -9.000 -9.000 -999.  159.     29.8  0.2930  0.52  1.00   1.50  334.0  15.0  297.9  2.0   0  0.00   62.  1002.    2 NAD-SFC NoSubs
 9  9 26 269 24   -3.7  0.099 -9.000 -9.000 -999.   75.     22.9  0.2470  0.52  1.00   1.00   48.0  15.0  296.8  2.0   0  0.00   64.  1001.    2 NAD-SFC NoSubs
 9  9 27 270  1   -1.5  0.080 -9.000 -9.000 -999.   55.     31.2  0.2130  0.52  1.00   0.50   95.0  15.0  295.6  2.0   0  0.00   67.  1001.    2 NAD-SFC NoSubs
 9  9 27 270  2   -1.5  0.080 -9.000 -9.000 -999.   55.     31.3  0.2130  0.52  1.00   0.50  102.0  15.0  294.9  2.0   0  0.00   68.  1001.    2 NAD-SFC NoSubs
 9  9 27 270  3   -1.5  0.080 -9.000 -9.000 -999.   55.     31.2  0.2090  0.52  1.00   0.50   77.0  15.0  294.2  2.0   0  0.00   70.  1001.    2 NAD-SFC NoSubs
 9  9 27 270  4   -1.5  0.080 -9.000 -9.000 -999.   55.     31.3  0.2090  0.52  1.00   0.50   83.0  15.0  293.6  2.0   0  0.00   71.  1001.    2 NAD-SFC NoSubs
 9  9 27 270  5   -1.5  0.081 -9.000 -9.000 -999.   55.     31.3  0.2130  0.52  1.00   0.50   90.0  15.0  293.0  2.0   0  0.00   71.  1001.    2 NAD-SFC NoSubs
 9  9 27 270  6   -1.5  0.081 -9.000 -9.000 -999.   55.     31.3  0.2130  0.52  1.00   0.50   98.0  15.0  292.6  2.0   0  0.00   71.  1001.    2 NAD-SFC NoSubs
 9  9 27 270  7   -0.5  0.048 -9.000 -9.000 -999.   26.     22.4  0.2130  0.52  0.46   0.50   92.0  15.0  292.4  2.0   0  0.00   70.  1001.    2 NAD-SFC NoSubs
 9  9 27 270  8   41.4 -9.000 -9.000 -9.000   89. -999. -99999.0  0.2235  0.52  0.27   0.00    0.0  15.0  294.2  2.0   0  0.00   65.  1001.    2 NAD-SFC NoSubs
 9  9 27 270  9   85.0 -9.000 -9.000 -9.000  220. -999. -99999.0  0.2235  0.52  0.22   0.00    0.0  15.0  297.9  2.0   0  0.00   53.  1001.    2 NAD-SFC NoSubs
 9  9 27 270 10  118.7 -9.000 -9.000 -9.000  360. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  300.1  2.0   0  0.00   48.  1001.    2 NAD-SFC NoSubs
 9  9 27 270 11  141.3 -9.000 -9.000 -9.000  491. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  302.2  2.0   0  0.00   42.  1000.    2 NAD-SFC NoSubs
 9  9 27 270 12  151.9 -9.000 -9.000 -9.000  605. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  304.0  2.0   0  0.00   36.   999.    2 NAD-SFC NoSubs
 9  9 27 270 13  150.1 -9.000 -9.000 -9.000  703. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  305.2  2.0   0  0.00   33.   998.    2 NAD-SFC NoSubs
 9  9 27 270 14  136.3 -9.000 -9.000 -9.000  785. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  306.2  2.0   0  0.00   31.   997.    2 NAD-SFC NoSubs
 9  9 27 270 15  110.5 -9.000 -9.000 -9.000  845. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  306.8  2.0   0  0.00   29.   996.    2 NAD-SFC NoSubs
 9  9 27 270 16   74.0  0.159  1.226  0.006  884.  152.     -4.8  0.2470  0.52  0.23   1.00   53.0  15.0  307.2  2.0   0  0.00   33.   995.    2 NAD-SFC NoSubs
 9  9 27 270 17   28.9  0.188  0.901  0.006  897.  196.    -20.5  0.2470  0.52  0.32   1.50   42.0  15.0  306.8  2.0   0  0.00   39.   995.    2 NAD-SFC NoSubs
 9  9 27 270 18   -3.4  0.098 -9.000 -9.000 -999.   77.     24.1  0.2940  0.52  0.62   1.00   11.0  15.0  305.2  2.0   0  0.00   45.   995.    2 NAD-SFC NoSubs
 9  9 27 270 19   -7.0  0.129 -9.000 -9.000 -999.  111.     27.0  0.2160  0.52  1.00   1.50  274.0  15.0  303.2  2.0   0  0.00   52.   996.    2 NAD-SFC NoSubs
 9  9 27 270 20  -42.7  0.420 -9.000 -9.000 -999.  653.    154.1  0.2160  0.52  1.00   4.60  283.0  15.0  302.0  2.0   0  0.00   56.   996.    2 NAD-SFC NoSubs
 9  9 27 270 21  -38.3  0.373 -9.000 -9.000 -999.  548.    120.0  0.2160  0.52  1.00   4.10  288.0  15.0  298.9  2.0   0  0.00   64.   997.    2 NAD-SFC NoSubs
 9  9 27 270 22  -33.6  0.325 -9.000 -9.000 -999.  447.     91.2  0.2160  0.52  1.00   3.60  291.0  15.0  297.9  2.0   0  0.00   63.   997.    2 NAD-SFC NoSubs
 9  9 27 270 23  -15.7  0.195 -9.000 -9.000 -999.  218.     42.2  0.2720  0.52  1.00   2.10  311.0  15.0  297.2  2.0   0  0.00   61.   997.    2 NAD-SFC NoSubs
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9	9	27	270	24	-30.0	0.289	-9.000	-9.000	-999.	372.	71.3	0.2470	0.52	1.00	3.10	38.0	15.0	296.5	2.0	0	0.00	64.	998.	2	NAD-SFC	NoSubs
9	9	28	271	1	-40.2	0.386	-9.000	-9.000	-999.	576.	127.6	0.2470	0.52	1.00	4.10	54.0	15.0	295.8	2.0	0	0.00	67.	998.	2	NAD-SFC	NoSubs
9	9	28	271	2	-30.1	0.288	-9.000	-9.000	-999.	377.	71.0	0.2470	0.52	1.00	3.10	48.0	15.0	295.1	2.0	0	0.00	69.	998.	2	NAD-SFC	NoSubs
9	9	28	271	3	-7.6	0.133	-9.000	-9.000	-999.	137.	27.9	0.2470	0.52	1.00	1.50	32.0	15.0	294.8	2.0	0	0.00	70.	998.	2	NAD-SFC	NoSubs
9	9	28	271	4	-3.7	0.099	-9.000	-9.000	-999.	75.	22.9	0.2470	0.52	1.00	1.00	41.0	15.0	294.0	2.0	0	0.00	72.	998.	2	NAD-SFC	NoSubs
9	9	28	271	5	-3.7	0.099	-9.000	-9.000	-999.	75.	22.9	0.2470	0.52	1.00	1.00	53.0	15.0	293.4	2.0	0	0.00	75.	998.	2	NAD-SFC	NoSubs
9	9	28	271	6	-1.6	0.082	-9.000	-9.000	-999.	56.	31.6	0.2470	0.52	1.00	0.50	47.0	15.0	293.0	2.0	0	0.00	76.	998.	2	NAD-SFC	NoSubs
9	9	28	271	7	-0.5	0.051	-9.000	-9.000	-999.	28.	23.1	0.2470	0.52	0.46	0.50	45.0	15.0	292.8	2.0	0	0.00	77.	998.	2	NAD-SFC	NoSubs
9	9	28	271	8	40.5	0.100	0.531	0.012	131.	76.	-2.2	0.2940	0.52	0.27	0.50	22.0	15.0	293.6	2.0	0	0.00	74.	998.	2	NAD-SFC	NoSubs
9	9	28	271	9	83.4	0.165	0.833	0.011	246.	161.	-4.8	0.2720	0.52	0.22	1.00	326.0	15.0	295.8	2.0	0	0.00	64.	997.	2	NAD-SFC	NoSubs
9	9	28	271	10	116.8	0.175	1.064	0.009	366.	176.	-4.1	0.2930	0.52	0.20	1.00	344.0	15.0	297.5	2.0	0	0.00	59.	997.	2	NAD-SFC	NoSubs
9	9	28	271	11	139.0	0.118	1.252	0.008	502.	98.	-1.1	0.2930	0.52	0.19	0.50	338.0	15.0	299.2	2.0	0	0.00	54.	997.	2	NAD-SFC	NoSubs
9	9	28	271	12	149.3	0.119	1.378	0.008	624.	99.	-1.0	0.2930	0.52	0.19	0.50	346.0	15.0	300.8	2.0	0	0.00	49.	996.	2	NAD-SFC	NoSubs
9	9	28	271	13	147.4	0.181	1.452	0.008	739.	184.	-3.5	0.2940	0.52	0.19	1.00	17.0	15.0	301.8	2.0	0	0.00	45.	996.	2	NAD-SFC	NoSubs
9	9	28	271	14	133.3	0.230	1.464	0.008	836.	265.	-8.1	0.2940	0.52	0.20	1.50	24.0	15.0	302.5	2.0	0	0.00	43.	995.	2	NAD-SFC	NoSubs
9	9	28	271	15	107.6	0.225	1.401	0.008	907.	256.	-9.4	0.2940	0.52	0.20	1.50	9.0	15.0	303.5	2.0	0	0.00	39.	995.	2	NAD-SFC	NoSubs
9	9	28	271	16	71.7	0.215	1.243	0.008	951.	239.	-12.2	0.2930	0.52	0.23	1.50	346.0	15.0	303.8	2.0	0	0.00	38.	995.	3	NAD-SFC	NoSubs
9	9	28	271	17	27.3	0.245	0.906	0.008	967.	292.	-48.1	0.2720	0.52	0.32	2.10	308.0	15.0	303.6	2.0	0	0.00	43.	995.	3	NAD-SFC	NoSubs
9	9	28	271	18	-36.5	0.421	-9.000	-9.000	-999.	657.	182.1	0.2160	0.52	0.64	4.60	299.0	15.0	301.6	2.0	0	0.00	49.	996.	3	NAD-SFC	NoSubs
9	9	28	271	19	-37.5	0.373	-9.000	-9.000	-999.	548.	122.8	0.2160	0.52	1.00	4.10	286.0	15.0	297.9	2.0	0	0.00	60.	996.	3	NAD-SFC	NoSubs
9	9	28	271	20	-35.1	0.347	-9.000	-9.000	-999.	491.	105.8	0.2720	0.52	1.00	3.60	309.0	15.0	296.2	2.0	0	0.00	65.	997.	3	NAD-SFC	NoSubs
9	9	28	271	21	-36.0	0.355	-9.000	-9.000	-999.	507.	110.0	0.2930	0.52	1.00	3.60	331.0	15.0	295.0	2.0	0	0.00	67.	997.	3	NAD-SFC	NoSubs
9	9	28	271	22	-36.2	0.355	-9.000	-9.000	-999.	507.	109.6	0.2930	0.52	1.00	3.60	338.0	15.0	293.9	2.0	0	0.00	70.	998.	3	NAD-SFC	NoSubs
9	9	28	271	23	-31.1	0.303	-9.000	-9.000	-999.	402.	79.9	0.2930	0.52	1.00	3.10	346.0	15.0	293.0	2.0	0	0.00	72.	999.	3	NAD-SFC	NoSubs
9	9	28	271	24	-25.4	0.252	-9.000	-9.000	-999.	305.	56.1	0.2940	0.52	1.00	2.60	3.0	15.0	292.4	2.0	0	0.00	73.	999.	3	NAD-SFC	NoSubs
9	9	29	272	1	-16.3	0.200	-9.000	-9.000	-999.	216.	43.8	0.2940	0.52	1.00	2.10	13.0	15.0	291.9	2.0	0	0.00	74.	999.	3	NAD-SFC	NoSubs
9	9	29	272	2	-8.2	0.140	-9.000	-9.000	-999.	126.	29.9	0.2940	0.52	1.00	1.50	8.0	15.0	291.4	2.0	0	0.00	74.	1000.	3	NAD-SFC	NoSubs
9	9	29	272	3	-4.0	0.102	-9.000	-9.000	-999.	79.	23.6	0.2930	0.52	1.00	1.00	347.0	15.0	290.9	2.0	0	0.00	75.	1000.	2	NAD-SFC	NoSubs
9	9	29	272	4	-1.6	0.083	-9.000	-9.000	-999.	58.	31.9	0.2720	0.52	1.00	0.50	319.0	15.0	290.2	2.0	0	0.00	76.	1001.	2	NAD-SFC	NoSubs
9	9	29	272	5	-3.6	0.097	-9.000	-9.000	-999.	72.	22.4	0.2160	0.52	1.00	1.00	287.0	15.0	289.8	2.0	0	0.00	77.	1001.	2	NAD-SFC	NoSubs
9	9	29	272	6	-14.4	0.183	-9.000	-9.000	-999.	188.	38.0	0.2160	0.52	1.00	2.10	286.0	15.0	289.0	2.0	0	0.00	79.	1002.	2	NAD-SFC	NoSubs
9	9	29	272	7	-7.3	0.189	-9.000	-9.000	-999.	198.	82.7	0.2160	0.52	0.47	2.10	289.0	15.0	288.5	2.0	0	0.00	80.	1002.	2	NAD-SFC	NoSubs
9	9	29	272	8	38.7	0.369	0.587	0.008	186.	537.	-115.8	0.2160	0.52	0.28	3.60	286.0	15.0	289.9	2.0	0	0.00	72.	1002.	2	NAD-SFC	NoSubs
9	9	29	272	9	81.3	0.214	0.890	0.008	309.	254.	-10.7	0.2720	0.52	0.22	1.50	310.0	15.0	291.6	2.0	0	0.00	69.	1002.	2	NAD-SFC	NoSubs
9	9	29	272	10	114.4	0.113	1.121	0.008	440.	98.	-1.1	0.2720	0.52	0.20	0.50	314.0	15.0	293.0	2.0	0	0.00	65.	1002.	2	NAD-SFC	NoSubs
9	9	29	272	11	136.3	0.110	1.307	0.008	586.	87.	-1.0	0.2160	0.52	0.19	0.50	296.0	15.0	294.4	2.0	0	0.00	60.	1002.	2	NAD-SFC	NoSubs
9	9	29	272	12	146.3	0.228	1.426	0.007	708.	262.	-7.3	0.2720	0.52	0.19	1.50	306.0	15.0	295.6	2.0	0	0.00	56.	1001.	2	NAD-SFC	NoSubs
9	9	29	272	13	144.3	0.228	1.483	0.007	809.	261.	-7.3	0.2720	0.52	0.19	1.50	324.0	15.0	296.5	2.0	0	0.00	53.	1001.	3	NAD-SFC	NoSubs
9	9	29	272	14	128.7	0.333	1.473	0.007	889.	462.	-25.7	0.2930	0.52	0.20	2.60	339.0	15.0	297.1	2.0	0	0.00	51.	1001.	4	NAD-SFC	NoSubs
9	9	29	272	15	103.2	0.419	1.399	0.008	947.	650.	-63.5	0.2930	0.52	0.21	3.60	346.0	15.0	297.2	2.0	0	0.00	51.	1001.	4	NAD-SFC	NoSubs
9	9	29	272	16	67.3	0.500	1.230	0.008	987.	848.	-165.7	0.2930	0.52	0.23	4.60	346.0	15.0	297.0	2.0	0	0.00	52.	1000.	4	NAD-SFC	NoSubs
9	9	29	272	17	22.8	-9.000	-9.000	-9.000	1000.	-999.	-99999.0	0.2235	0.52	0.33	0.00	0.0	15.0	296.2	2.0	0	0.00	61.	1001.	3	NAD-SFC	NoSubs
9	9	29	272	18	-43.2	0.459	-9.000	-9.000	-999.	746.	199.6	0.2940	0.52	0.65	4.60	2.0	15.0	294.2	2.0	0	0.00	67.	1002.	3	NAD-SFC	NoSubs
9	9	29	272	19	-41.8	0.406	-9.000	-9.000	-999.	623.	143.0	0.2930	0.52	1.00	4.10	336.0	15.0	292.6	2.0	0	0.00	72.	1003.	3	NAD-SFC	NoSubs
9	9	29	272	20	-41.1	0.397	-9.000	-9.000	-999.	601.	136.5	0.2720	0.52	1.00	4.10	319.0	15.0	291.6	2.0	0	0.00	74.	1003.	3	NAD-SFC	NoSubs
9	9	29	272	21	-46.5	0.448	-9.000	-9.000	-999.	718.	172.8	0.2720	0.52	1.00	4.60	315.0	15.0	290.6	2.0	0	0.00	74.	1004.	3	NAD-SFC	NoSubs
9	9	29	272	22	-41.5	0.397	-9.000	-9.000	-999.	603.	135.2	0.2720	0.52	1.00	4.10	302.0	15.0	289.0	2.0	0	0.00	73.	1005.	3	NAD-SFC	NoSubs
9	9	29	272	23	-36.4	0.347	-9.000	-9.000	-999.	492.	102.7	0.2720	0.52	1.00	3.60	301.0	15.0	287.9	2.0	0	0.00	74.	1006.	3	NAD-SFC	NoSubs
9	9	29	272	24	-31.2	0.297	-9.000	-9.000	-999.	389.	74.9	0.2720	0.52	1.00	3.10	312.0	15.0	287.1	2.0	0	0.00	76.	1006.	3	NAD-SFC	NoSubs
9	9	30	273	1	-24.9	0.246	-9.000	-9.000	-999.	294.	53.8	0.2720	0.52	1.00	2.60	312.0	15.0	286.6	2.0	0	0.00	77.	1007.	3	NAD-SFC	NoSubs
9	9	30	273	2	-16.0	0.195	-9.000	-9.000	-999.	208.	41.9	0.2720	0.52	1.00	2.10	305.0	15.0	286.1	2.0	0	0.00	78.	1007.	3	NAD-SFC	NoSubs
9	9	30	273	3	-14.4	0.183	-9.000	-9.000	-999.	188.	38.3	0.2160	0.52	1.00	2.10	293.0	15.0	285.8	2.0	0	0.00	79.	1007.	3	NAD-SFC	NoSubs
9	9	30	273	4	-7.2	0.129	-9.000	-9.000	-999.	111.	26.6	0.2160	0.52	1.00	1.50	285.0	15.0	285.2	2.0	0	0.00	81.	1007.	3	NAD-SFC	NoSubs
9	9	30	273	5	-7.1	0.129	-9.000	-9.000	-999.	111.	27.0	0.2160	0.52	1.00	1.50	279.0	15.0	285.0	2.0	0	0.00	83.	1008.	4	NAD-SFC	NoSubs
9	9	30	273	6	-6.9	0.129	-9.000	-9.000	-999.	111.	27.6	0.2160	0.52	1.00	1.50	273.0	15.0	284.8	2.0	0	0.00	84.	1008.	5	NAD-SFC	NoSubs
9	9	30	273	7	-1.5	0.082	-9.000	-9.000	-999.	57.	33.9	0.1750	0.52	0.47	1.00	266.0	15.0	284.5	2.0	0	0.00	85.	1009.	5	NAD-SFC	NoSubs
9	9	30	273	8	38.0	0.256	0.625	0.005	230.	311.	-39.7	0.2930	0.52	0.28	2.10	356.0	15.0	286.2	2.0	0	0.00	75.	1009.	5	NAD-SFC	NoSubs
9	9	30	273	9	79.7	-9.000	-9.000	-9.000	416.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	287.8	2.0	0	0.00	66.	1010.	4	NAD-SFC	NoSubs
9	9	30	273	10	112.8	-9.000	-9.000	-9.000	605.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	289.1	2.0	0	0.00	59.	1010.	3	NAD-SFC	NoSubs
9	9	30	273	11	134.4	-9.000	-9.000	-9.000	800.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	290.2	2.0	0	0.00	54.	1009.	3	NAD-SFC	NoSubs
9	9	30	273	12	144.0	-9.000	-9.000	-9.000	974.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	291.4	2.0	0	0.00	50.	1008.	2	NAD-SFC	NoSubs
9	9	30	273	13	141.8	0.116	1.614	0.006	1067.	95.	-1.0	0.2720	0.52	0.19	0.50	313.0	15.0	292.5	2.0	0	0.00	45.	1007.	2	NAD-SFC	NoSubs
9	9	30	273	14	127.4	0.225	1.594	0.006	1143.	255.	-8.0	0.2720	0.52	0.20	1.50	316.0	15.0	293.4	2.0	0	0.00	40.	1007.	2	NAD-SFC	NoSubs
9	9	30	273	15	101.2	0.326	1.502	0.006	1201.	447.	-30.7	0.2930	0.52	0.21	2.60	342.0	15.0	293.9	2.0	0	0.00	38.	1006.	2	NAD-SFC	NoSubs
9	9	30	273	16	64.2	0.359	1.303	0.005	1236.	517.	-64.8	0.2930	0.52	0.24	3.10	350.0	15.0	293.9	2.0	0	0.00	39.	1006.	2	NAD-SFC	NoSubs
9	9	30	273	17	19.4	0.243	0.876	0.005	1245.	295.	-66.5	0.2930	0.52	0.33	2.10	358.0	15.0	293.4	2.0	0	0.00	47.	1006.	2	NAD-SFC	NoSubs
9	9	30	273	18	8.8	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.67	0.00	0.0	15.0	292.8	2.0	0	0.00	48.	1006.	2	NAD-SFC	NoSubs
9	9	30	273	19	-1.7	0.084	-9.000	-9.000	-999.	58.	32.0	0.2940	0.52	1.00	0.50	8.0	15.0	291.9	2.0	0	0.00	51.	1006.	2	NAD-SFC	NoSubs
9	9	30	273	20	-1.5	0.081	-9.000	-9.000	-999.	55.	31.4	0.2090	0.52	1.00	0.50	87.0	15.0	290.8	2.0	0	0.00	56.	1006.	2	NAD-SFC	NoSubs
9	9	30	273	21	-1.5	0.080	-9.000	-9.000	-999.	55.	31.3	0.1970	0.52	1.00	0.50	133.0	15.0	289.5	2.0	0	0.00	62.	1007.	2	NAD-SFC	NoSubs
9	9	30	273	22	-3.5	0.096	-9.000	-9.000	-999.	71.	22.1	0.1970	0.52	1.00	1.00	140.0	15.0	288.4	2.0	0	0.00	67.	1007.	2	NAD-SFC	NoSubs
9	9	30	273	23	-6.8	0.124	-9.000	-9.000	-999.	104.	24.9	0.1810	0.52	1.00	1.50	159.0	15.0	287.5	2.0	0	0.00	71.	1007.	2	NAD-SFC	NoSubs
9	9	30	273	24	-1.5	0.080	-9.000	-9.000	-999.	55.	31.3	0.1900	0.52	1.00	0.50	183.0	15.0	286.9	2.0	0	0.00	72.	1006.	2	NAD-SFC	NoSubs
9	10	1	274	1	-3.4	0.094	-9.000	-9.000	-999.	69.	21.7	0.1750	0.72	1.00	1.00	261.0	15.0	286.4	2.0	0	0.00	72.	1006.	2	NAD-SFC	NoSubs
9	10	1	274	2	-7.3	0.129	-9.000	-9.000	-999.	111.	26.3	0.2160	0.72	1.00	1.50	275.0	15.0	286.0	2.0	0	0.00	71.	1007.	2	NAD-SFC	NoSubs
9	10	1	274	3	-22.7	0.230	-9.000	-9.000	-999.	265.	48.3	0.2160	0.72	1.00	2.60	276.0	15.0	285.2	2.0	0	0.00	70.	1007.	2	NAD-SFC	NoSubs
9	10	1	274	4	-30.3	0.278	-9.000	-9.000	-999.	351.	63.5	0.2160	0.72	1.00	3.10	288.0	15.0	284.5	2.0	0	0.00	70.	1007.	2	NAD-SFC	NoSubs

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 9 10   1 274   5   -22.7   0.230  -9.000  -9.000  -999.   266.      48.2  0.2160  0.72  1.00   2.60  286.0  15.0  283.9  2.0   0  0.00   67.  1007.    2 NAD-SFC NoSubs
 9 10   1 274   6   -22.8   0.230  -9.000  -9.000  -999.   265.      48.2  0.2160  0.72  1.00   2.60  276.0  15.0  283.5  2.0   0  0.00   64.  1008.    2 NAD-SFC NoSubs
 9 10   1 274   7    -9.5   0.188  -9.000  -9.000  -999.   196.      63.1  0.2160  0.72  0.48   2.10  270.0  15.0  283.2  2.0   0  0.00   61.  1009.    2 NAD-SFC NoSubs
 9 10   1 274   8    44.2   0.255   0.542   0.008   129.   309.     -33.7  0.2720  0.72  0.28   2.10  312.0  15.0  285.2  2.0   0  0.00   48.  1009.    2 NAD-SFC NoSubs
 9 10   1 274   9    96.1   0.105   0.898   0.009   270.   101.      -1.1  0.2160  0.72  0.22   0.50  294.0  15.0  287.1  2.0   0  0.00   44.  1008.    2 NAD-SFC NoSubs
 9 10   1 274  10   136.8  -9.000  -9.000  -9.000   426.  -999.  -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  289.8  2.0   0  0.00   39.  1008.    2 NAD-SFC NoSubs
 9 10   1 274  11   163.6  -9.000  -9.000  -9.000   603.  -999.  -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  291.8  2.0   0  0.00   35.  1007.    2 NAD-SFC NoSubs
 9 10   1 274  12   175.9  -9.000  -9.000  -9.000   745.  -999.  -99999.0  0.2235  0.72  0.19   0.00    0.0  15.0  293.6  2.0   0  0.00   33.  1006.    2 NAD-SFC NoSubs
 9 10   1 274  13   173.4   0.122   1.609   0.009   862.   102.      -1.0  0.2930  0.72  0.19   0.50  338.0  15.0  295.2  2.0   0  0.00   30.  1005.    2 NAD-SFC NoSubs
 9 10   1 274  14   155.9   0.120   1.608   0.009   956.   100.      -1.0  0.2930  0.72  0.20   0.50  348.0  15.0  296.5  2.0   0  0.00   29.  1004.    2 NAD-SFC NoSubs
 9 10   1 274  15   123.9  -9.000  -9.000  -9.000  1017.  -999.  -99999.0  0.2235  0.72  0.21   0.00    0.0  15.0  297.1  2.0   0  0.00   29.  1004.    2 NAD-SFC NoSubs
 9 10   1 274  16    78.5   0.319   1.322   0.009  1053.   433.     -37.1  0.2940  0.72  0.24   2.60    7.0  15.0  297.0  2.0   0  0.00   33.  1003.    2 NAD-SFC NoSubs
 9 10   1 274  17    23.2   0.339   0.883   0.009  1061.   474.    -150.4  0.2940  0.72  0.34   3.10   17.0  15.0  295.8  2.0   0  0.00   46.  1003.    2 NAD-SFC NoSubs
 9 10   1 274  18   -35.8   0.355  -9.000  -9.000  -999.   508.     111.7  0.2940  0.72  0.68   3.60   25.0  15.0  294.2  2.0   0  0.00   51.  1003.    2 NAD-SFC NoSubs
 9 10   1 274  19   -32.0   0.303  -9.000  -9.000  -999.   402.      78.0  0.2940  0.72  1.00   3.10   16.0  15.0  293.2  2.0   0  0.00   52.  1003.    2 NAD-SFC NoSubs
 9 10   1 274  20    -8.3   0.140  -9.000  -9.000  -999.   148.      29.6  0.2940  0.72  1.00   1.50   22.0  15.0  292.4  2.0   0  0.00   54.  1003.    2 NAD-SFC NoSubs
 9 10   1 274  21  -999.0  -9.000  -9.000  -9.000  -999.  -999.  -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  291.1  2.0   0  0.00   59.  1003.    2 NAD-SFC NoSubs
 9 10   1 274  22    -1.5   0.081  -9.000  -9.000  -999.    55.      31.5  0.2160  0.72  1.00   0.50  288.0  15.0  289.9  2.0   0  0.00   63.  1003.    2 NAD-SFC NoSubs
 9 10   1 274  23    -1.7   0.084  -9.000  -9.000  -999.    59.      32.1  0.2930  0.72  1.00   0.50  343.0  15.0  288.9  2.0   0  0.00   65.  1003.    2 NAD-SFC NoSubs
 9 10   1 274  24    -1.7   0.084  -9.000  -9.000  -999.    59.      32.1  0.2940  0.72  1.00   0.50    5.0  15.0  288.1  2.0   0  0.00   67.  1002.    2 NAD-SFC NoSubs
 9 10   2 275   1    -1.7   0.085  -9.000  -9.000  -999.    59.      32.1  0.2930  0.72  1.00   0.50  357.0  15.0  287.4  2.0   0  0.00   69.  1002.    2 NAD-SFC NoSubs
 9 10   2 275   2    -1.7   0.085  -9.000  -9.000  -999.    59.      32.2  0.2930  0.72  1.00   0.50  347.0  15.0  286.8  2.0   0  0.00   70.  1002.    2 NAD-SFC NoSubs
 9 10   2 275   3    -4.1   0.103  -9.000  -9.000  -999.    79.      23.6  0.2930  0.72  1.00   1.00  336.0  15.0  286.2  2.0   0  0.00   71.  1002.    2 NAD-SFC NoSubs
 9 10   2 275   4    -8.1   0.137  -9.000  -9.000  -999.   122.      28.4  0.2720  0.72  1.00   1.50  315.0  15.0  285.8  2.0   0  0.00   73.  1002.    2 NAD-SFC NoSubs
 9 10   2 275   5    -8.1   0.137  -9.000  -9.000  -999.   122.      28.4  0.2720  0.72  1.00   1.50  302.0  15.0  285.5  2.0   0  0.00   74.  1003.    2 NAD-SFC NoSubs
 9 10   2 275   6   -22.6   0.230  -9.000  -9.000  -999.   265.      48.3  0.2160  0.72  1.00   2.60  298.0  15.0  285.2  2.0   0  0.00   74.  1003.    2 NAD-SFC NoSubs
 9 10   2 275   7   -12.1   0.235  -9.000  -9.000  -999.   274.      96.4  0.2160  0.72  0.48   2.60  297.0  15.0  285.1  2.0   0  0.00   73.  1003.    2 NAD-SFC NoSubs
 9 10   2 275   8    43.8   0.255   0.471   0.010    85.   308.     -33.7  0.2720  0.72  0.28   2.10  319.0  15.0  287.1  2.0   0  0.00   62.  1003.    2 NAD-SFC NoSubs
 9 10   2 275   9    95.8   0.167   0.854   0.011   233.   167.      -4.4  0.2720  0.72  0.22   1.00  304.0  15.0  289.1  2.0   0  0.00   56.  1003.    2 NAD-SFC NoSubs
 9 10   2 275  10   136.4  -9.000  -9.000  -9.000   365.  -999.  -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  291.6  2.0   0  0.00   49.  1003.    2 NAD-SFC NoSubs
 9 10   2 275  11   163.6  -9.000  -9.000  -9.000   510.  -999.  -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  294.2  2.0   0  0.00   40.  1002.    2 NAD-SFC NoSubs
 9 10   2 275  12   175.8  -9.000  -9.000  -9.000   636.  -999.  -99999.0  0.2235  0.72  0.19   0.00    0.0  15.0  295.9  2.0   0  0.00   35.  1001.    2 NAD-SFC NoSubs
 9 10   2 275  13   173.1  -9.000  -9.000  -9.000   766.  -999.  -99999.0  0.2235  0.72  0.19   0.00    0.0  15.0  297.2  2.0   0  0.00   31.  1000.    2 NAD-SFC NoSubs
 9 10   2 275  14   155.5  -9.000  -9.000  -9.000   872.  -999.  -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  298.2  2.0   0  0.00   29.   999.    2 NAD-SFC NoSubs
 9 10   2 275  15   123.4   0.116   1.486   0.005   948.    95.      -1.1  0.2930  0.72  0.21   0.50  355.0  15.0  298.9  2.0   0  0.00   27.   998.    2 NAD-SFC NoSubs
 9 10   2 275  16    77.9  -9.000  -9.000  -9.000  1003.  -999.  -99999.0  0.2235  0.72  0.24   0.00    0.0  15.0  298.8  2.0   0  0.00   27.   997.    2 NAD-SFC NoSubs
 9 10   2 275  17    23.0   0.247   0.870   0.005  1020.   294.     -58.0  0.2940  0.72  0.34   2.10    6.0  15.0  298.2  2.0   0  0.00   35.   997.    2 NAD-SFC NoSubs
 9 10   2 275  18    -8.0   0.140  -9.000  -9.000  -999.   131.      30.3  0.2940  0.72  0.69   1.50   22.0  15.0  296.8  2.0   0  0.00   40.   997.    2 NAD-SFC NoSubs
 9 10   2 275  19    -1.6   0.083  -9.000  -9.000  -999.    58.      31.7  0.2720  0.72  1.00   0.50  315.0  15.0  295.0  2.0   0  0.00   46.   997.    2 NAD-SFC NoSubs
 9 10   2 275  20   -13.0   0.173  -9.000  -9.000  -999.   173.      35.5  0.1750  0.72  1.00   2.10  254.0  15.0  293.5  2.0   0  0.00   51.   997.    2 NAD-SFC NoSubs
 9 10   2 275  21   -37.2   0.353  -9.000  -9.000  -999.   503.     105.0  0.1750  0.72  1.00   4.10  256.0  15.0  291.8  2.0   0  0.00   55.   998.    2 NAD-SFC NoSubs
 9 10   2 275  22   -32.7   0.308  -9.000  -9.000  -999.   411.      79.5  0.1750  0.72  1.00   3.60  264.0  15.0  289.8  2.0   0  0.00   60.   998.    2 NAD-SFC NoSubs
 9 10   2 275  23   -28.1   0.263  -9.000  -9.000  -999.   325.      57.8  0.1750  0.72  1.00   3.10  262.0  15.0  288.8  2.0   0  0.00   61.   998.    2 NAD-SFC NoSubs
 9 10   2 275  24   -28.1   0.263  -9.000  -9.000  -999.   324.      57.7  0.1750  0.72  1.00   3.10  248.0  15.0  288.1  2.0   0  0.00   63.   998.    2 NAD-SFC NoSubs
 9 10   3 276   1   -13.1   0.173  -9.000  -9.000  -999.   176.      35.0  0.1750  0.72  1.00   2.10  246.0  15.0  287.6  2.0   0  0.00   65.   998.    2 NAD-SFC NoSubs
 9 10   3 276   2    -6.7   0.123  -9.000  -9.000  -999.   103.      24.6  0.1750  0.72  1.00   1.50  249.0  15.0  287.2  2.0   0  0.00   66.   998.    2 NAD-SFC NoSubs
 9 10   3 276   3   -13.1   0.173  -9.000  -9.000  -999.   173.      35.0  0.1750  0.72  1.00   2.10  252.0  15.0  286.8  2.0   0  0.00   68.   998.    2 NAD-SFC NoSubs
 9 10   3 276   4   -13.2   0.173  -9.000  -9.000  -999.   173.      34.9  0.1750  0.72  1.00   2.10  262.0  15.0  286.2  2.0   0  0.00   70.   998.    2 NAD-SFC NoSubs
 9 10   3 276   5    -6.7   0.123  -9.000  -9.000  -999.   103.      24.6  0.1750  0.72  1.00   1.50  269.0  15.0  285.8  2.0   0  0.00   73.   998.    2 NAD-SFC NoSubs
 9 10   3 276   6    -3.4   0.094  -9.000  -9.000  -999.    69.      21.7  0.1750  0.72  1.00   1.00  246.0  15.0  285.4  2.0   0  0.00   76.   998.    2 NAD-SFC NoSubs
 9 10   3 276   7    -0.8   0.061  -9.000  -9.000  -999.    36.      25.3  0.1950  0.72  0.49   0.50  219.0  15.0  285.1  2.0   0  0.00   79.   998.    2 NAD-SFC NoSubs
 9 10   3 276   8    42.8   0.138   0.575   0.011   158.   124.      -5.5  0.1750  0.72  0.28   1.00  268.0  15.0  286.8  2.0   0  0.00   74.   999.    2 NAD-SFC NoSubs
 9 10   3 276   9    94.7   0.100   0.950   0.009   323.    76.      -1.0  0.1750  0.72  0.22   0.50  260.0  15.0  288.8  2.0   0  0.00   66.   999.    2 NAD-SFC NoSubs
 9 10   3 276  10   135.0  -9.000  -9.000  -9.000   457.  -999.  -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  290.5  2.0   0  0.00   60.   998.    2 NAD-SFC NoSubs
 9 10   3 276  11   161.6  -9.000  -9.000  -9.000   572.  -999.  -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  291.9  2.0   0  0.00   54.   998.    2 NAD-SFC NoSubs
 9 10   3 276  12   173.6  -9.000  -9.000  -9.000   694.  -999.  -99999.0  0.2235  0.72  0.19   0.00    0.0  15.0  293.2  2.0   0  0.00   49.   997.    3 NAD-SFC NoSubs
 9 10   3 276  13   170.7   0.120   1.608   0.007   866.    99.      -1.0  0.2720  0.72  0.19   0.50  315.0  15.0  294.2  2.0   0  0.00   46.   996.    3 NAD-SFC NoSubs
 9 10   3 276  14   153.0   0.233   1.621   0.007   990.   271.      -7.4  0.2930  0.72  0.20   1.50  336.0  15.0  294.9  2.0   0  0.00   45.   995.    3 NAD-SFC NoSubs
 9 10   3 276  15   120.9   0.331   1.533   0.008  1060.   458.     -26.7  0.2930  0.72  0.21   2.60  354.0  15.0  295.2  2.0   0  0.00   45.   995.    3 NAD-SFC NoSubs
 9 10   3 276  16    75.7   0.457   1.329   0.008  1100.   740.    -111.6  0.2940  0.72  0.24   4.10    5.0  15.0  295.0  2.0   0  0.00   48.   995.    4 NAD-SFC NoSubs
 9 10   3 276  17    22.4   0.386   0.888   0.008  1111.   579.    -227.7  0.2940  0.72  0.35   3.60    3.0  15.0  294.0  2.0   0  0.00   61.   994.    4 NAD-SFC NoSubs
 9 10   3 276  18   -39.2   0.406  -9.000  -9.000  -999.   622.     151.9  0.2930  0.72  0.71   4.10  337.0  15.0  292.5  2.0   0  0.00   68.   995.    4 NAD-SFC NoSubs
 9 10   3 276  19   -38.3   0.407  -9.000  -9.000  -999.   622.     156.1  0.2930  0.72  1.00   4.10  335.0  15.0  291.5  2.0   0  0.00   70.   996.    5 NAD-SFC NoSubs
 9 10   3 276  20   -32.8   0.347  -9.000  -9.000  -999.   494.     113.6  0.2720  0.72  1.00   3.60  322.0  15.0  290.8  2.0   0  0.00   70.   996.    5 NAD-SFC NoSubs
 9 10   3 276  21   -30.9   0.326  -9.000  -9.000  -999.   447.      99.7  0.2160  0.72  1.00   3.60  299.0  15.0  289.8  2.0   0  0.00   72.   996.    5 NAD-SFC NoSubs
 9 10   3 276  22   -42.1   0.420  -9.000  -9.000  -999.   654.     156.6  0.2160  0.72  1.00   4.60  292.0  15.0  288.0  2.0   0  0.00   75.   997.    4 NAD-SFC NoSubs
 9 10   3 276  23   -34.9   0.422  -9.000  -9.000  -999.   658.     191.1  0.2160  0.72  1.00   4.60  294.0  15.0  286.2  2.0   0  0.00   76.   997.    7 NAD-SFC NoSubs
 9 10   3 276  24   -20.7   0.377  -9.000  -9.000  -999.   558.     230.6  0.2160  0.72  1.00   4.10  287.0  15.0  285.8  2.0   0  0.00   76.   998.   10 NAD-SFC NoSubs
 9 10   4 277   1   -15.5   0.282  -9.000  -9.000  -999.   365.     128.8  0.2160  0.72  1.00   3.10  288.0  15.0  285.6  2.0   0  0.00   76.   998.   10 NAD-SFC NoSubs
 9 10   4 277   2   -10.3   0.188  -9.000  -9.000  -999.   199.      56.9  0.2160  0.72  1.00   2.10  283.0  15.0  285.5  2.0   0  0.00   76.   998.   10 NAD-SFC NoSubs
 9 10   4 277   3    -5.3   0.131  -9.000  -9.000  -999.   114.      37.7  0.2160  0.72  1.00   1.50  270.0  15.0  285.4  2.0   0  0.00   77.   999.   10 NAD-SFC NoSubs
 9 10   4 277   4    -4.8   0.123  -9.000  -9.000  -999.   104.      34.9  0.1750  0.72  1.00   1.50  266.0  15.0  285.2  2.0   0  0.00   77.   999.   10 NAD-SFC NoSubs
 9 10   4 277   5   -10.3   0.188  -9.000  -9.000  -999.   195.      56.8  0.2160  0.72  1.00   2.10  278.0  15.0  285.1  2.0   0  0.00   77.   999.   10 NAD-SFC NoSubs
 9 10   4 277   6   -13.0   0.235  -9.000  -9.000  -999.   273.      89.0  0.2160  0.72  1.00   2.60  287.0  15.0  284.6  2.0   0  0.00   77.  1000.   10 NAD-SFC NoSubs
 9 10   4 277   7    -8.6   0.286  -9.000  -9.000  -999.   366.     240.8  0.2160  0.72  0.49   3.10  294.0  15.0  284.1  2.0   0  0.00   77.  1000.    8 NAD-SFC NoSubs
 9 10   4 277   8    42.7   0.390   0.829   0.005   476.   584.    -123.9  0.2720  0.72  0.28   3.60  309.0  15.0  284.2  2.0   0  0.00   71.  1000.    5 NAD-SFC NoSubs
 9 10   4 277   9    93.1   0.318   1.265   0.005   776.   434.     -31.0  0.2720  0.72  0.22   2.60  324.0  15.0  285.1  2.0   0  0.00   67.  1001.    4 NAD-SFC NoSubs
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9	10	4	277	10	131.9	0.226	1.557	0.005	1023.	261.	-7.8	0.2720	0.72	0.20	1.50	328.0	15.0	285.9	2.0	0	0.00	63.	1001.	4	NAD-SFC NoSubs
9	10	4	277	11	152.4	0.120	1.702	0.005	1156.	105.	-1.0	0.2930	0.72	0.20	0.50	348.0	15.0	287.1	2.0	0	0.00	55.	1000.	5	NAD-SFC NoSubs
9	10	4	277	12	168.7	0.183	1.825	0.005	1288.	188.	-3.2	0.2930	0.72	0.19	1.00	336.0	15.0	288.2	2.0	0	0.00	46.	1000.	4	NAD-SFC NoSubs
9	10	4	277	13	167.6	0.295	1.872	0.006	1398.	384.	-13.6	0.2930	0.72	0.19	2.10	344.0	15.0	289.1	2.0	0	0.00	41.	999.	3	NAD-SFC NoSubs
9	10	4	277	14	149.6	0.384	1.839	0.006	1483.	572.	-33.8	0.2930	0.72	0.20	3.10	349.0	15.0	289.6	2.0	0	0.00	37.	999.	3	NAD-SFC NoSubs
9	10	4	277	15	117.4	0.468	1.720	0.006	1546.	769.	-77.9	0.2930	0.72	0.21	4.10	355.0	15.0	289.8	2.0	0	0.00	37.	998.	3	NAD-SFC NoSubs
9	10	4	277	16	72.2	0.549	1.475	0.006	1584.	976.	-204.4	0.2940	0.72	0.24	5.10	2.0	15.0	289.5	2.0	0	0.00	40.	998.	3	NAD-SFC NoSubs
9	10	4	277	17	17.9	-9.000	-9.000	-9.000	1591.	-999.	-99999.0	0.2235	0.72	0.35	0.00	0.0	15.0	288.8	2.0	0	0.00	52.	998.	3	NAD-SFC NoSubs
9	10	4	277	18	-36.7	0.355	-9.000	-9.000	-999.	507.	108.5	0.2940	0.72	0.72	3.60	12.0	15.0	287.8	2.0	0	0.00	56.	999.	3	NAD-SFC NoSubs
9	10	4	277	19	-31.8	0.303	-9.000	-9.000	-999.	402.	78.3	0.2940	0.72	1.00	3.10	8.0	15.0	286.9	2.0	0	0.00	58.	1000.	3	NAD-SFC NoSubs
9	10	4	277	20	-23.6	0.239	-9.000	-9.000	-999.	283.	51.7	0.2470	0.72	1.00	2.60	31.0	15.0	286.2	2.0	0	0.00	59.	1001.	3	NAD-SFC NoSubs
9	10	4	277	21	-14.1	0.181	-9.000	-9.000	-999.	186.	37.8	0.2090	0.72	1.00	2.10	79.0	15.0	285.2	2.0	0	0.00	61.	1001.	3	NAD-SFC NoSubs
9	10	4	277	22	-13.8	0.178	-9.000	-9.000	-999.	181.	36.9	0.1970	0.72	1.00	2.10	132.0	15.0	284.5	2.0	0	0.00	62.	1002.	3	NAD-SFC NoSubs
9	10	4	277	23	-21.5	0.225	-9.000	-9.000	-999.	256.	47.3	0.1970	0.72	1.00	2.60	147.0	15.0	283.9	2.0	0	0.00	64.	1003.	3	NAD-SFC NoSubs
9	10	4	277	24	-3.5	0.095	-9.000	-9.000	-999.	83.	22.1	0.1970	0.72	1.00	1.00	127.0	15.0	283.2	2.0	0	0.00	67.	1003.	3	NAD-SFC NoSubs
9	10	5	278	1	-3.6	0.097	-9.000	-9.000	-999.	72.	22.4	0.2130	0.72	1.00	1.00	98.0	15.0	282.2	2.0	0	0.00	70.	1003.	3	NAD-SFC NoSubs
9	10	5	278	2	-7.2	0.128	-9.000	-9.000	-999.	110.	26.3	0.2130	0.72	1.00	1.50	115.0	15.0	281.5	2.0	0	0.00	73.	1003.	3	NAD-SFC NoSubs
9	10	5	278	3	-3.5	0.096	-9.000	-9.000	-999.	71.	22.1	0.1970	0.72	1.00	1.00	124.0	15.0	281.0	2.0	0	0.00	74.	1003.	3	NAD-SFC NoSubs
9	10	5	278	4	-1.5	0.081	-9.000	-9.000	-999.	56.	31.5	0.2130	0.72	1.00	0.50	118.0	15.0	280.5	2.0	0	0.00	75.	1004.	3	NAD-SFC NoSubs
9	10	5	278	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	280.1	2.0	0	0.00	77.	1004.	3	NAD-SFC NoSubs
9	10	5	278	6	-4.0	0.101	-9.000	-9.000	-999.	77.	23.3	0.2720	0.72	1.00	1.00	300.0	15.0	279.8	2.0	0	0.00	80.	1005.	3	NAD-SFC NoSubs
9	10	5	278	7	-11.6	0.200	-9.000	-9.000	-999.	214.	61.9	0.2720	0.72	0.50	2.10	302.0	15.0	279.4	2.0	0	0.00	83.	1006.	3	NAD-SFC NoSubs
9	10	5	278	8	41.1	0.253	0.533	0.005	132.	306.	-35.5	0.2720	0.72	0.29	2.10	324.0	15.0	281.6	2.0	0	0.00	72.	1007.	3	NAD-SFC NoSubs
9	10	5	278	9	92.3	0.109	0.959	0.005	344.	104.	-1.3	0.2720	0.72	0.22	0.50	324.0	15.0	283.6	2.0	0	0.00	63.	1007.	3	NAD-SFC NoSubs
9	10	5	278	10	132.0	-9.000	-9.000	-9.000	605.	-999.	-99999.0	0.2235	0.72	0.20	0.00	0.0	15.0	285.4	2.0	0	0.00	55.	1007.	3	NAD-SFC NoSubs
9	10	5	278	11	158.0	-9.000	-9.000	-9.000	953.	-999.	-99999.0	0.2235	0.72	0.20	0.00	0.0	15.0	286.9	2.0	0	0.00	49.	1006.	3	NAD-SFC NoSubs
9	10	5	278	12	169.5	-9.000	-9.000	-9.000	1342.	-999.	-99999.0	0.2235	0.72	0.19	0.00	0.0	15.0	288.1	2.0	0	0.00	46.	1006.	3	NAD-SFC NoSubs
9	10	5	278	13	166.3	0.113	1.881	0.006	1437.	91.	-1.0	0.2160	0.72	0.19	0.50	292.0	15.0	289.2	2.0	0	0.00	42.	1005.	3	NAD-SFC NoSubs
9	10	5	278	14	148.4	0.117	1.844	0.006	1517.	96.	-1.0	0.2720	0.72	0.20	0.50	300.0	15.0	290.0	2.0	0	0.00	39.	1004.	3	NAD-SFC NoSubs
9	10	5	278	15	116.3	0.175	1.722	0.006	1576.	175.	-4.1	0.2930	0.72	0.21	1.00	341.0	15.0	290.5	2.0	0	0.00	37.	1004.	3	NAD-SFC NoSubs
9	10	5	278	16	71.1	-9.000	-9.000	-9.000	1612.	-999.	-99999.0	0.2235	0.72	0.24	0.00	0.0	15.0	290.6	2.0	0	0.00	37.	1003.	3	NAD-SFC NoSubs
9	10	5	278	17	17.0	0.232	0.916	0.006	1619.	268.	-65.7	0.2470	0.72	0.36	2.10	34.0	15.0	290.1	2.0	0	0.00	45.	1003.	3	NAD-SFC NoSubs
9	10	5	278	18	-30.0	0.289	-9.000	-9.000	-999.	372.	71.8	0.2470	0.72	0.74	3.10	43.0	15.0	289.4	2.0	0	0.00	47.	1004.	3	NAD-SFC NoSubs
9	10	5	278	19	-30.2	0.288	-9.000	-9.000	-999.	372.	71.2	0.2470	0.72	1.00	3.10	58.0	15.0	288.2	2.0	0	0.00	50.	1004.	3	NAD-SFC NoSubs
9	10	5	278	20	-22.1	0.230	-9.000	-9.000	-999.	265.	49.0	0.2130	0.72	1.00	2.60	95.0	15.0	287.1	2.0	0	0.00	54.	1004.	3	NAD-SFC NoSubs
9	10	5	278	21	-21.5	0.225	-9.000	-9.000	-999.	256.	47.5	0.1970	0.72	1.00	2.60	120.0	15.0	285.9	2.0	0	0.00	58.	1005.	3	NAD-SFC NoSubs
9	10	5	278	22	-21.5	0.225	-9.000	-9.000	-999.	256.	47.4	0.1970	0.72	1.00	2.60	145.0	15.0	284.9	2.0	0	0.00	62.	1005.	3	NAD-SFC NoSubs
9	10	5	278	23	-21.6	0.225	-9.000	-9.000	-999.	256.	47.3	0.1970	0.72	1.00	2.60	143.0	15.0	284.1	2.0	0	0.00	66.	1006.	3	NAD-SFC NoSubs
9	10	5	278	24	-28.9	0.271	-9.000	-9.000	-999.	339.	61.8	0.1970	0.72	1.00	3.10	124.0	15.0	283.2	2.0	0	0.00	69.	1005.	3	NAD-SFC NoSubs
9	10	6	279	1	-29.0	0.271	-9.000	-9.000	-999.	339.	61.7	0.1970	0.72	1.00	3.10	120.0	15.0	282.8	2.0	0	0.00	70.	1006.	3	NAD-SFC NoSubs
9	10	6	279	2	-29.1	0.271	-9.000	-9.000	-999.	339.	61.6	0.1970	0.72	1.00	3.10	131.0	15.0	282.2	2.0	0	0.00	72.	1006.	3	NAD-SFC NoSubs
9	10	6	279	3	-21.6	0.225	-9.000	-9.000	-999.	257.	47.1	0.1970	0.72	1.00	2.60	145.0	15.0	282.0	2.0	0	0.00	71.	1006.	3	NAD-SFC NoSubs
9	10	6	279	4	-3.4	0.094	-9.000	-9.000	-999.	83.	21.8	0.1810	0.72	1.00	1.00	171.0	15.0	281.5	2.0	0	0.00	73.	1006.	3	NAD-SFC NoSubs
9	10	6	279	5	-1.6	0.082	-9.000	-9.000	-999.	57.	31.8	0.2160	0.72	1.00	0.50	270.0	15.0	280.9	2.0	0	0.00	76.	1006.	2	NAD-SFC NoSubs
9	10	6	279	6	-7.4	0.129	-9.000	-9.000	-999.	111.	26.1	0.2160	0.72	1.00	1.50	292.0	15.0	280.4	2.0	0	0.00	79.	1007.	2	NAD-SFC NoSubs
9	10	6	279	7	-2.6	0.088	-9.000	-9.000	-999.	63.	23.5	0.2160	0.72	0.50	1.00	281.0	15.0	280.1	2.0	0	0.00	82.	1007.	2	NAD-SFC NoSubs
9	10	6	279	8	39.0	0.198	0.455	0.005	87.	211.	-17.8	0.2720	0.72	0.29	1.50	305.0	15.0	282.4	2.0	0	0.00	75.	1007.	2	NAD-SFC NoSubs
9	10	6	279	9	90.6	0.158	0.911	0.005	300.	151.	-3.9	0.2160	0.72	0.22	1.00	291.0	15.0	284.6	2.0	0	0.00	68.	1007.	2	NAD-SFC NoSubs
9	10	6	279	10	130.9	0.166	1.281	0.005	577.	162.	-3.1	0.2160	0.72	0.20	1.00	284.0	15.0	287.2	2.0	0	0.00	56.	1007.	2	NAD-SFC NoSubs
9	10	6	279	11	157.3	0.112	1.570	0.005	884.	91.	-1.0	0.2160	0.72	0.20	0.50	286.0	15.0	289.2	2.0	0	0.00	45.	1006.	2	NAD-SFC NoSubs
9	10	6	279	12	169.0	-9.000	-9.000	-9.000	1090.	-999.	-99999.0	0.2235	0.72	0.19	0.00	0.0	15.0	290.8	2.0	0	0.00	38.	1005.	2	NAD-SFC NoSubs
9	10	6	279	13	165.9	-9.000	-9.000	-9.000	1237.	-999.	-99999.0	0.2235	0.72	0.19	0.00	0.0	15.0	292.1	2.0	0	0.00	34.	1004.	2	NAD-SFC NoSubs
9	10	6	279	14	147.8	0.180	1.772	0.005	1352.	184.	-3.6	0.2930	0.72	0.20	1.00	352.0	15.0	292.9	2.0	0	0.00	33.	1004.	2	NAD-SFC NoSubs
9	10	6	279	15	115.1	0.226	1.659	0.005	1420.	258.	-9.0	0.2940	0.72	0.21	1.50	12.0	15.0	293.2	2.0	0	0.00	34.	1003.	2	NAD-SFC NoSubs
9	10	6	279	16	69.4	0.362	1.414	0.005	1459.	523.	-61.2	0.2940	0.72	0.24	3.10	13.0	15.0	293.1	2.0	0	0.00	36.	1003.	2	NAD-SFC NoSubs
9	10	6	279	17	14.7	0.333	0.845	0.006	1466.	461.	-223.4	0.2940	0.72	0.36	3.10	18.0	15.0	292.2	2.0	0	0.00	48.	1002.	2	NAD-SFC NoSubs
9	10	6	279	18	-37.7	0.355	-9.000	-9.000	-999.	507.	105.9	0.2940	0.72	0.76	3.60	19.0	15.0	291.0	2.0	0	0.00	51.	1003.	2	NAD-SFC NoSubs
9	10	6	279	19	-37.8	0.355	-9.000	-9.000	-999.	507.	105.5	0.2940	0.72	1.00	3.60	25.0	15.0	290.1	2.0	0	0.00	53.	1003.	2	NAD-SFC NoSubs
9	10	6	279	20	-16.6	0.200	-9.000	-9.000	-999.	232.	42.9	0.2940	0.72	1.00	2.10	27.0	15.0	289.0	2.0	0	0.00	56.	1003.	2	NAD-SFC NoSubs
9	10	6	279	21	-1.5	0.081	-9.000	-9.000	-999.	70.	31.5	0.2090	0.72	1.00	0.50	73.0	15.0	287.8	2.0	0	0.00	60.	1003.	2	NAD-SFC NoSubs
9	10	6	279	22	-7.0	0.126	-9.000	-9.000	-999.	107.	25.4	0.1950	0.72	1.00	1.50	229.0	15.0	286.5	2.0	0	0.00	65.	1004.	2	NAD-SFC NoSubs
9	10	6	279	23	-6.7	0.123	-9.000	-9.000	-999.	103.	24.6	0.1750	0.72	1.00	1.50	256.0	15.0	285.5	2.0	0	0.00	67.	1004.	2	NAD-SFC NoSubs
9	10	6	279	24	-8.1	0.137	-9.000	-9.000	-999.	122.	28.4	0.2720	0.72	1.00	1.50	302.0	15.0	284.8	2.0	0	0.00	68.	1004.	2	NAD-SFC NoSubs
9	10	7	280	1	-1.7	0.085	-9.000	-9.000	-999.	60.	32.3	0.2930	0.72	1.00	0.50	339.0	15.0	284.0	2.0	0	0.00	70.	1004.	2	NAD-SFC NoSubs
9	10	7	280	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	283.4	2.0	0	0.00	71.	1004.	2	NAD-SFC NoSubs
9	10	7	280	3	-1.6	0.082	-9.000	-9.000	-999.	56.	31.7	0.2160	0.72	1.00	0.50	296.0	15.0	283.0	2.0	0	0.00	71.	1005.	2	NAD-SFC NoSubs
9	10	7	280	4	-3.5	0.094	-9.000	-9.000	-999.	70.	21.7	0.1750	0.72	1.00	1.00	267.0	15.0	282.9	2.0	0	0.00	69.	1005.	2	NAD-SFC NoSubs
9	10	7	280	5	-6.8	0.123	-9.000	-9.000	-999.	103.	24.5	0.1750	0.72	1.00	1.50	251.0	15.0	282.8	2.0	0	0.00	68.	1005.	2	NAD-SFC NoSubs
9	10	7	280	6	-20.8	0.218	-9.000	-9.000	-999.	244.	44.5	0.1750	0.72	1.00	2.60	248.0	15.0	282.2	2.0	0	0.00	66.	1006.	2	NAD-SFC NoSubs
9	10	7	280	7	-17.9	0.266	-9.000	-9.000	-999.	330.	94.5	0.1750	0.72	0.51	3.10	256.0	15.0	281.8	2.0	0	0.00	64.	1006.	2	NAD-SFC NoSubs
9	10	7	280	8	38.2	0.283	0.489	0.006	110.	360.	-53.0	0.2160	0.72	0.29	2.60	287.0	15.0	283.2	2.0	0	0.00	54.	1007.	2	NAD-SFC NoSubs
9	10	7	280	9	89.7	0.158	0.841	0.007	238.	160.	-3.9	0.2160	0.72	0.22	1.00	280.0	15.0	285.2	2.0	0	0.00	46.	1007.	2	NAD-SFC NoSubs
9	10	7	280	10	130.0	0.104	1.117	0.006	386.	81.	-1.0	0.1750	0.72	0.20	0.50	241.0	15.0	287.8	2.0	0	0.00	38.	1007.	2	NAD-SFC NoSubs
9	10	7	280	11	156.3	0.110	1.419	0.006	656.	87.	-1.0	0.1950	0.72	0.20	0.50	221.0	15.0	289.8	2.0	0	0.00	34.	1006.	2	NAD-SFC NoSubs
9	10	7	280	12	168.1	-9.000	-9.000	-9.000	804.	-999.	-99999.0	0.2235	0.72	0.19	0.00	0.0	15.0	291.4	2.0	0	0.00	32.	1006.	2	NAD-SFC NoSubs
9	10	7	280	13	164.9	-9.000	-9.000	-9.000	927.	-999.	-99999.0	0.2235	0.72	0.20	0.00	0.0	15.0	292.8	2.0	0	0.00	30.	1005.	2	NAD-SFC NoSubs
9	10	7	280	14	146.7	-9.000	-9.000	-9.000	1044.	-999.	-99999.0	0.2235	0.72	0.20	0.00	0.0	15.0	293.8	2.0	0	0.00	27.	1004.	2	NAD-SFC NoSubs

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 9 10   7 280 15   114.2 -9.000 -9.000 -9.000 1137. -999. -99999.0 0.2235  0.72  0.21  0.00    0.0  15.0 294.4  2.0    0  0.00   26. 1004.    2 NAD-SFC NoSubs
 9 10   7 280 16    68.6  0.103  1.316  0.005 1190.   80.     -1.4 0.2470  0.72  0.25  0.50   58.0  15.0 294.8  2.0    0  0.00   23. 1003.    2 NAD-SFC NoSubs
 9 10   7 280 17    14.1  0.177  0.780  0.005 1199.  178.    -34.8 0.2470  0.72  0.37  1.50   52.0  15.0 294.2  2.0    0  0.00   28. 1003.    2 NAD-SFC NoSubs
 9 10   7 280 18   -23.7  0.239 -9.000 -9.000 -999.  281.     51.7 0.2470  0.72  0.77  2.60   47.0  15.0 293.1  2.0    0  0.00   32. 1004.    2 NAD-SFC NoSubs
 9 10   7 280 19    -7.1  0.128 -9.000 -9.000 -999.  116.     26.2 0.2090  0.72  1.00  1.50   67.0  15.0 291.5  2.0    0  0.00   36. 1004.    2 NAD-SFC NoSubs
 9 10   7 280 20    -3.5  0.095 -9.000 -9.000 -999.   71.     22.1 0.1950  0.72  1.00  1.00  219.0  15.0 289.8  2.0    0  0.00   43. 1005.    2 NAD-SFC NoSubs
 9 10   7 280 21   -13.2  0.173 -9.000 -9.000 -999.  173.     35.1 0.1750  0.72  1.00  2.10  256.0  15.0 288.1  2.0    0  0.00   48. 1005.    2 NAD-SFC NoSubs
 9 10   7 280 22   -22.6  0.230 -9.000 -9.000 -999.  265.     48.5 0.2160  0.72  1.00  2.60  285.0  15.0 286.9  2.0    0  0.00   51. 1006.    2 NAD-SFC NoSubs
 9 10   7 280 23   -14.5  0.183 -9.000 -9.000 -999.  188.     37.7 0.2160  0.72  1.00  2.10  295.0  15.0 286.1  2.0    0  0.00   53. 1006.    2 NAD-SFC NoSubs
 9 10   7 280 24    -1.7  0.084 -9.000 -9.000 -999.   64.     32.1 0.2720  0.72  1.00  0.50  301.0  15.0 285.8  2.0    0  0.00   54. 1006.    2 NAD-SFC NoSubs
 9 10   8 281  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00    0.0  15.0 285.5  2.0    0  0.00   54. 1007.    2 NAD-SFC NoSubs
 9 10   8 281  2    -1.5  0.081 -9.000 -9.000 -999.   55.     31.4 0.1970  0.72  1.00  0.50  129.0  15.0 285.0  2.0    0  0.00   56. 1007.    2 NAD-SFC NoSubs
 9 10   8 281  3    -3.6  0.096 -9.000 -9.000 -999.   71.     22.1 0.1970  0.72  1.00  1.00  130.0  15.0 284.1  2.0    0  0.00   58. 1007.    2 NAD-SFC NoSubs
 9 10   8 281  4    -6.9  0.124 -9.000 -9.000 -999.  104.     24.7 0.1810  0.72  1.00  1.50  151.0  15.0 283.2  2.0    0  0.00   60. 1007.    2 NAD-SFC NoSubs
 9 10   8 281  5    -6.9  0.124 -9.000 -9.000 -999.  104.     24.7 0.1810  0.72  1.00  1.50  166.0  15.0 282.8  2.0    0  0.00   60. 1007.    2 NAD-SFC NoSubs
 9 10   8 281  6    -7.0  0.125 -9.000 -9.000 -999.  106.     25.1 0.1900  0.72  1.00  1.50  195.0  15.0 282.4  2.0    0  0.00   62. 1007.    2 NAD-SFC NoSubs
 9 10   8 281  7    -2.6  0.087 -9.000 -9.000 -999.   61.     22.6 0.1950  0.72  0.51  1.00  221.0  15.0 282.1  2.0    0  0.00   64. 1008.    2 NAD-SFC NoSubs
 9 10   8 281  8    37.4  0.090  0.488  0.010  112.   65.     -1.8 0.1950  0.72  0.29  0.50  229.0  15.0 283.6  2.0    0  0.00   62. 1008.    2 NAD-SFC NoSubs
 9 10   8 281  9    89.1 -9.000 -9.000 -9.000  269. -999. -99999.0 0.2235  0.72  0.22  0.00    0.0  15.0 286.6  2.0    0  0.00   56. 1009.    2 NAD-SFC NoSubs
 9 10   8 281 10   129.4 -9.000 -9.000 -9.000  400. -999. -99999.0 0.2235  0.72  0.20  0.00    0.0  15.0 289.2  2.0    0  0.00   46. 1009.    2 NAD-SFC NoSubs
 9 10   8 281 11   155.8 -9.000 -9.000 -9.000  570. -999. -99999.0 0.2235  0.72  0.20  0.00    0.0  15.0 291.4  2.0    0  0.00   39. 1008.    2 NAD-SFC NoSubs
 9 10   8 281 12   167.4 -9.000 -9.000 -9.000  706. -999. -99999.0 0.2235  0.72  0.19  0.00    0.0  15.0 292.9  2.0    0  0.00   36. 1007.    2 NAD-SFC NoSubs
 9 10   8 281 13   164.2 -9.000 -9.000 -9.000  813. -999. -99999.0 0.2235  0.72  0.20  0.00    0.0  15.0 294.2  2.0    0  0.00   33. 1007.    2 NAD-SFC NoSubs
 9 10   8 281 14   146.1 -9.000 -9.000 -9.000  899. -999. -99999.0 0.2235  0.72  0.20  0.00    0.0  15.0 295.4  2.0    0  0.00   30. 1006.    2 NAD-SFC NoSubs
 9 10   8 281 15   113.5 -9.000 -9.000 -9.000  960. -999. -99999.0 0.2235  0.72  0.21  0.00    0.0  15.0 296.0  2.0    0  0.00   29. 1005.    2 NAD-SFC NoSubs
 9 10   8 281 16    67.7  0.107  1.238  0.006 1005.   84.     -1.6 0.2940  0.72  0.25  0.50   15.0  15.0 296.1  2.0    0  0.00   29. 1005.    2 NAD-SFC NoSubs
 9 10   8 281 17    13.4  0.183  0.724  0.006 1014.  187.    -40.7 0.2940  0.72  0.37  1.50   28.0  15.0 295.6  2.0    0  0.00   34. 1005.    2 NAD-SFC NoSubs
 9 10   8 281 18   -23.7  0.239 -9.000 -9.000 -999.  281.     51.8 0.2470  0.72  1.00  2.60   34.0  15.0 294.2  2.0    0  0.00   40. 1005.    2 NAD-SFC NoSubs
 9 10   8 281 19   -23.8  0.239 -9.000 -9.000 -999.  281.     51.6 0.2470  0.72  1.00  2.60   50.0  15.0 292.8  2.0    0  0.00   45. 1005.    2 NAD-SFC NoSubs
 9 10   8 281 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00    0.0  15.0 291.1  2.0    0  0.00   50. 1006.    2 NAD-SFC NoSubs
 9 10   8 281 21   -34.9  0.325 -9.000 -9.000 -999.  445.     88.5 0.2160  0.72  1.00  3.60  275.0  15.0 289.4  2.0    0  0.00   58. 1006.    2 NAD-SFC NoSubs
 9 10   8 281 22   -35.1  0.325 -9.000 -9.000 -999.  445.     88.0 0.2160  0.72  1.00  3.60  284.0  15.0 287.9  2.0    0  0.00   68. 1007.    2 NAD-SFC NoSubs
 9 10   8 281 23   -22.6  0.230 -9.000 -9.000 -999.  270.     48.5 0.2160  0.72  1.00  2.60  297.0  15.0 287.2  2.0    0  0.00   73. 1007.    2 NAD-SFC NoSubs
 9 10   8 281 24    -8.1  0.137 -9.000 -9.000 -999.  125.     28.5 0.2720  0.72  1.00  1.50  301.0  15.0 286.8  2.0    0  0.00   75. 1007.    2 NAD-SFC NoSubs
 9 10   9 282  1    -3.7  0.097 -9.000 -9.000 -999.   73.     22.4 0.2160  0.72  1.00  1.00  296.0  15.0 286.2  2.0    0  0.00   76. 1007.    2 NAD-SFC NoSubs
 9 10   9 282  2    -1.7  0.084 -9.000 -9.000 -999.   58.     32.1 0.2720  0.72  1.00  0.50  313.0  15.0 285.8  2.0    0  0.00   76. 1007.    2 NAD-SFC NoSubs
 9 10   9 282  3    -1.7  0.084 -9.000 -9.000 -999.   58.     32.1 0.2720  0.72  1.00  0.50  314.0  15.0 285.4  2.0    0  0.00   76. 1007.    2 NAD-SFC NoSubs
 9 10   9 282  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00    0.0  15.0 284.8  2.0    0  0.00   78. 1007.    2 NAD-SFC NoSubs
 9 10   9 282  5    -1.5  0.081 -9.000 -9.000 -999.   55.     31.5 0.1950  0.72  1.00  0.50  227.0  15.0 284.2  2.0    0  0.00   80. 1007.    2 NAD-SFC NoSubs
 9 10   9 282  6    -3.6  0.096 -9.000 -9.000 -999.   71.     22.1 0.1950  0.72  1.00  1.00  226.0  15.0 283.6  2.0    0  0.00   83. 1008.    2 NAD-SFC NoSubs
 9 10   9 282  7    -5.4  0.122 -9.000 -9.000 -999.  103.     30.3 0.1750  0.72  0.52  1.50  243.0  15.0 283.2  2.0    0  0.00   84. 1008.    2 NAD-SFC NoSubs
 9 10   9 282  8    36.7  0.179  0.479  0.010  107.  182.    -14.1 0.1750  0.72  0.29  1.50  268.0  15.0 284.9  2.0    0  0.00   80. 1008.    2 NAD-SFC NoSubs
 9 10   9 282  9    88.2  0.099  0.848  0.009  249.   77.     -1.0 0.1750  0.72  0.22  0.50  263.0  15.0 287.1  2.0    0  0.00   74. 1008.    2 NAD-SFC NoSubs
 9 10   9 282 10   128.4 -9.000 -9.000 -9.000  392. -999. -99999.0 0.2235  0.72  0.20  0.00    0.0  15.0 289.5  2.0    0  0.00   65. 1007.    2 NAD-SFC NoSubs
 9 10   9 282 11   154.8 -9.000 -9.000 -9.000  556. -999. -99999.0 0.2235  0.72  0.20  0.00    0.0  15.0 291.8  2.0    0  0.00   55. 1007.    2 NAD-SFC NoSubs
 9 10   9 282 12   166.4 -9.000 -9.000 -9.000  694. -999. -99999.0 0.2235  0.72  0.19  0.00    0.0  15.0 293.4  2.0    0  0.00   50. 1006.    2 NAD-SFC NoSubs
 9 10   9 282 13   163.3 -9.000 -9.000 -9.000  811. -999. -99999.0 0.2235  0.72  0.20  0.00    0.0  15.0 295.0  2.0    0  0.00   43. 1005.    2 NAD-SFC NoSubs
 9 10   9 282 14   145.2 -9.000 -9.000 -9.000  903. -999. -99999.0 0.2235  0.72  0.20  0.00    0.0  15.0 296.2  2.0    0  0.00   38. 1004.    2 NAD-SFC NoSubs
 9 10   9 282 15   112.4  0.114  1.449  0.010  969.   93.     -1.2 0.2930  0.72  0.21  0.50  355.0  15.0 296.8  2.0    0  0.00   37. 1003.    2 NAD-SFC NoSubs
 9 10   9 282 16    66.6  0.212  1.229  0.010  996.  235.    -12.9 0.2940  0.72  0.25  1.50    5.0  15.0 296.8  2.0    0  0.00   37. 1002.    2 NAD-SFC NoSubs
 9 10   9 282 17    12.4  0.181  0.704  0.010 1001.  186.    -42.9 0.2940  0.72  0.38  1.50   14.0  15.0 296.4  2.0    0  0.00   43. 1002.    2 NAD-SFC NoSubs
 9 10   9 282 18   -16.5  0.200 -9.000 -9.000 -999.  215.     43.4 0.2940  0.72  1.00  2.10   27.0  15.0 295.0  2.0    0  0.00   48. 1002.    2 NAD-SFC NoSubs
 9 10   9 282 19    -1.6  0.082 -9.000 -9.000 -999.   67.     31.6 0.2470  0.72  1.00  0.50   31.0  15.0 293.5  2.0    0  0.00   54. 1002.    2 NAD-SFC NoSubs
 9 10   9 282 20   -29.4  0.278 -9.000 -9.000 -999.  352.     65.2 0.2160  0.72  1.00  3.10  273.0  15.0 291.9  2.0    0  0.00   60. 1002.    2 NAD-SFC NoSubs
 9 10   9 282 21   -39.8  0.372 -9.000 -9.000 -999.  545.    116.1 0.2160  0.72  1.00  4.10  291.0  15.0 289.6  2.0    0  0.00   69. 1003.    2 NAD-SFC NoSubs
 9 10   9 282 22   -29.8  0.278 -9.000 -9.000 -999.  356.     64.3 0.2160  0.72  1.00  3.10  296.0  15.0 288.2  2.0    0  0.00   75. 1003.    2 NAD-SFC NoSubs
 9 10   9 282 23   -31.9  0.296 -9.000 -9.000 -999.  387.     73.0 0.2720  0.72  1.00  3.10  326.0  15.0 287.4  2.0    0  0.00   77. 1003.    2 NAD-SFC NoSubs
 9 10   9 282 24   -32.7  0.303 -9.000 -9.000 -999.  400.     76.0 0.2930  0.72  1.00  3.10  354.0  15.0 286.6  2.0    0  0.00   79. 1003.    2 NAD-SFC NoSubs
 9 10  10 283  1   -32.8  0.303 -9.000 -9.000 -999.  401.     76.0 0.2940  0.72  1.00  3.10    9.0  15.0 286.0  2.0    0  0.00   81. 1003.    2 NAD-SFC NoSubs
 9 10  10 283  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00    0.0  15.0 285.5  2.0    0  0.00   82. 1003.    2 NAD-SFC NoSubs
 9 10  10 283  3    -8.4  0.140 -9.000 -9.000 -999.  125.     29.2 0.2930  0.72  1.00  1.50  344.0  15.0 285.1  2.0    0  0.00   82. 1004.    2 NAD-SFC NoSubs
 9 10  10 283  4    -4.0  0.101 -9.000 -9.000 -999.   78.     23.3 0.2720  0.72  1.00  1.00  301.0  15.0 284.8  2.0    0  0.00   81. 1004.    2 NAD-SFC NoSubs
 9 10  10 283  5    -7.3  0.129 -9.000 -9.000 -999.  111.     26.2 0.2160  0.72  1.00  1.50  279.0  15.0 284.4  2.0    0  0.00   82. 1004.    2 NAD-SFC NoSubs
 9 10  10 283  6    -7.3  0.129 -9.000 -9.000 -999.  111.     26.2 0.2160  0.72  1.00  1.50  292.0  15.0 284.1  2.0    0  0.00   84. 1004.    2 NAD-SFC NoSubs
 9 10  10 283  7    -2.8  0.089 -9.000 -9.000 -999.   64.     23.0 0.2160  0.72  0.53  1.00  283.0  15.0 283.8  2.0    0  0.00   87. 1004.    2 NAD-SFC NoSubs
 9 10  10 283  8    35.8  0.251  0.480  0.008  111.  301.    -39.4 0.2720  0.72  0.30  2.10  322.0  15.0 285.0  2.0    0  0.00   88. 1004.    2 NAD-SFC NoSubs
 9 10  10 283  9    87.0  0.109  0.857  0.008  259.  102.     -1.3 0.2720  0.72  0.23  0.50  306.0  15.0 286.8  2.0    0  0.00   82. 1003.    2 NAD-SFC NoSubs
 9 10  10 283 10   127.1 -9.000 -9.000 -9.000  415. -999. -99999.0 0.2235  0.72  0.20  0.00    0.0  15.0 289.1  2.0    0  0.00   70. 1003.    2 NAD-SFC NoSubs
 9 10  10 283 11   153.4 -9.000 -9.000 -9.000  578. -999. -99999.0 0.2235  0.72  0.20  0.00    0.0  15.0 291.0  2.0    0  0.00   61. 1002.    2 NAD-SFC NoSubs
 9 10  10 283 12   165.1 -9.000 -9.000 -9.000  726. -999. -99999.0 0.2235  0.72  0.20  0.00    0.0  15.0 293.0  2.0    0  0.00   51. 1000.    2 NAD-SFC NoSubs
 9 10  10 283 13   161.9 -9.000 -9.000 -9.000  858. -999. -99999.0 0.2235  0.72  0.20  0.00    0.0  15.0 294.8  2.0    0  0.00   44.  999.    2 NAD-SFC NoSubs
 9 10  10 283 14   143.7 -9.000 -9.000 -9.000  961. -999. -99999.0 0.2235  0.72  0.20  0.00    0.0  15.0 295.9  2.0    0  0.00   39.  998.    2 NAD-SFC NoSubs
 9 10  10 283 15   110.9  0.112  1.464  0.010 1008.   90.     -1.1 0.2720  0.72  0.21  0.50  318.0  15.0 296.5  2.0    0  0.00   37.  998.    2 NAD-SFC NoSubs
 9 10  10 283 16    65.1  0.212  1.236  0.009 1033.  234.    -13.0 0.2930  0.72  0.25  1.50  354.0  15.0 296.6  2.0    0  0.00   37.  997.    2 NAD-SFC NoSubs
 9 10  10 283 17    11.0  0.282  0.684  0.009 1036.  359.   -180.9 0.2940  0.72  0.38  2.60    8.0  15.0 296.1  2.0    0  0.00   43.  997.    2 NAD-SFC NoSubs
 9 10  10 283 18   -35.2  0.337 -9.000 -9.000 -999.  470.     97.0 0.2470  0.72  1.00  3.60   32.0  15.0 294.8  2.0    0  0.00   48.  997.    2 NAD-SFC NoSubs
 9 10  10 283 19   -16.4  0.200 -9.000 -9.000 -999.  227.     43.3 0.2940  0.72  1.00  2.10   25.0  15.0 293.4  2.0    0  0.00   53.  998.    2 NAD-SFC NoSubs
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 9 10 10 283 20  -34.3  0.325 -9.000 -9.000 -999.  445.    89.2  0.2160  0.72  1.00  3.60  280.0  15.0  291.6  2.0  0  0.00  59.   998.   2 NAD-SFC NoSubs
 9 10 10 283 21  -39.7  0.372 -9.000 -9.000 -999.  545.   115.7  0.2160  0.72  1.00  4.10  282.0  15.0  288.8  2.0  0  0.00  70.   999.   2 NAD-SFC NoSubs
 9 10 10 283 22  -34.8  0.325 -9.000 -9.000 -999.  446.    87.8  0.2160  0.72  1.00  3.60  295.0  15.0  287.5  2.0  0  0.00  73.   999.   2 NAD-SFC NoSubs
 9 10 10 283 23  -29.9  0.278 -9.000 -9.000 -999.  353.    64.0  0.2160  0.72  1.00  3.10  298.0  15.0  286.8  2.0  0  0.00  75.  1000.   2 NAD-SFC NoSubs
 9 10 10 283 24  -25.9  0.251 -9.000 -9.000 -999.  303.    54.6  0.2930  0.72  1.00  2.60  345.0  15.0  286.2  2.0  0  0.00  77.  1000.   2 NAD-SFC NoSubs
 9 10 11 284  1  -26.0  0.252 -9.000 -9.000 -999.  303.    54.6  0.2940  0.72  1.00  2.60   24.0  15.0  285.6  2.0  0  0.00  80.  1000.   2 NAD-SFC NoSubs
 9 10 11 284  2  -15.3  0.190 -9.000 -9.000 -999.  199.    39.7  0.2470  0.72  1.00  2.10   45.0  15.0  285.1  2.0  0  0.00  82.  1000.   2 NAD-SFC NoSubs
 9 10 11 284  3   -1.6  0.083 -9.000 -9.000 -999.   65.    31.9  0.2470  0.72  1.00  0.50   39.0  15.0  284.8  2.0  0  0.00  82.  1000.   2 NAD-SFC NoSubs
 9 10 11 284  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  284.5  2.0  0  0.00  81.  1000.   2 NAD-SFC NoSubs
 9 10 11 284  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  284.1  2.0  0  0.00  82.  1000.   2 NAD-SFC NoSubs
 9 10 11 284  6   -1.5  0.081 -9.000 -9.000 -999.   55.    31.5  0.1970  0.72  1.00  0.50  142.0  15.0  283.8  2.0  0  0.00  84.  1000.   2 NAD-SFC NoSubs
 9 10 11 284  7   -1.1  0.070 -9.000 -9.000 -999.   45.    28.1  0.2130  0.72  0.53  0.50   97.0  15.0  283.2  2.0  0  0.00  85.  1001.   2 NAD-SFC NoSubs
 9 10 11 284  8   34.8  0.091  0.484  0.010  116.   66.    -1.9  0.2090  0.72  0.30  0.50   70.0  15.0  284.8  2.0  0  0.00  78.  1001.   2 NAD-SFC NoSubs
 9 10 11 284  9   86.3 -9.000 -9.000 -9.000  242. -999. -99999.0  0.2235  0.72  0.23  0.00    0.0  15.0  287.6  2.0  0  0.00  66.  1001.   2 NAD-SFC NoSubs
 9 10 11 284 10  126.2 -9.000 -9.000 -9.000  401. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  289.8  2.0  0  0.00  57.  1001.   2 NAD-SFC NoSubs
 9 10 11 284 11  152.3 -9.000 -9.000 -9.000  609. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  291.2  2.0  0  0.00  53.  1000.   2 NAD-SFC NoSubs
 9 10 11 284 12  163.8 -9.000 -9.000 -9.000  765. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  292.9  2.0  0  0.00  48.   999.   2 NAD-SFC NoSubs
 9 10 11 284 13  160.3  0.118  1.587  0.009  889.   98.    -1.0  0.2720  0.72  0.20  0.50  329.0  15.0  294.1  2.0  0  0.00  45.   998.   2 NAD-SFC NoSubs
 9 10 11 284 14  142.0  0.118  1.576  0.009  982.   98.    -1.0  0.2930  0.72  0.20  0.50  337.0  15.0  295.1  2.0  0  0.00  42.   997.   2 NAD-SFC NoSubs
 9 10 11 284 15  109.1  0.174  1.466  0.009 1029.  174.    -4.3  0.2930  0.72  0.21  1.00  350.0  15.0  295.6  2.0  0  0.00  40.   997.   2 NAD-SFC NoSubs
 9 10 11 284 16   63.2  0.211  1.232  0.009 1055.  233.   -13.3  0.2930  0.72  0.25  1.50  359.0  15.0  295.6  2.0  0  0.00  41.   997.   2 NAD-SFC NoSubs
 9 10 11 284 17    9.3  0.233  0.652  0.009 1058.  269.  -120.5  0.2940  0.72  0.39  2.10   20.0  15.0  295.2  2.0  0  0.00  48.   996.   2 NAD-SFC NoSubs
 9 10 11 284 18  -23.2  0.240 -9.000 -9.000 -999.  281.    52.6  0.2470  0.72  1.00  2.60   35.0  15.0  294.1  2.0  0  0.00  52.   997.   3 NAD-SFC NoSubs
 9 10 11 284 19  -15.7  0.196 -9.000 -9.000 -999.  208.    42.5  0.2720  0.72  1.00  2.10  304.0  15.0  292.8  2.0  0  0.00  56.   998.   3 NAD-SFC NoSubs
 9 10 11 284 20  -36.6  0.353 -9.000 -9.000 -999.  503.   107.1  0.1750  0.72  1.00  4.10  266.0  15.0  289.8  2.0  0  0.00  66.   999.   3 NAD-SFC NoSubs
 9 10 11 284 21  -34.0  0.325 -9.000 -9.000 -999.  446.    90.3  0.2160  0.72  1.00  3.60  279.0  15.0  287.8  2.0  0  0.00  71.   999.   3 NAD-SFC NoSubs
 9 10 11 284 22  -22.2  0.231 -9.000 -9.000 -999.  270.    49.2  0.2160  0.72  1.00  2.60  299.0  15.0  287.0  2.0  0  0.00  73.  1000.   3 NAD-SFC NoSubs
 9 10 11 284 23  -24.7  0.246 -9.000 -9.000 -999.  293.    53.8  0.2720  0.72  1.00  2.60  318.0  15.0  286.5  2.0  0  0.00  75.  1000.   3 NAD-SFC NoSubs
 9 10 11 284 24  -31.9  0.303 -9.000 -9.000 -999.  400.    77.9  0.2930  0.72  1.00  3.10  346.0  15.0  286.0  2.0  0  0.00  77.  1000.   3 NAD-SFC NoSubs
 9 10 12 285  1  -37.4  0.355 -9.000 -9.000 -999.  507.   106.6  0.2940  0.72  1.00  3.60   10.0  15.0  285.6  2.0  0  0.00  79.  1001.   3 NAD-SFC NoSubs
 9 10 12 285  2  -35.6  0.337 -9.000 -9.000 -999.  471.    96.4  0.2470  0.72  1.00  3.60   32.0  15.0  285.4  2.0  0  0.00  79.  1001.   3 NAD-SFC NoSubs
 9 10 12 285  3  -32.0  0.303 -9.000 -9.000 -999.  402.    77.8  0.2940  0.72  1.00  3.10   26.0  15.0  285.1  2.0  0  0.00  80.  1001.   3 NAD-SFC NoSubs
 9 10 12 285  4  -25.3  0.252 -9.000 -9.000 -999.  305.    56.5  0.2940  0.72  1.00  2.60   26.0  15.0  285.1  2.0  0  0.00  78.  1001.   4 NAD-SFC NoSubs
 9 10 12 285  5  -29.4  0.289 -9.000 -9.000 -999.  372.    73.1  0.2470  0.72  1.00  3.10   38.0  15.0  284.9  2.0  0  0.00  80.  1001.   4 NAD-SFC NoSubs
 9 10 12 285  6  -23.3  0.240 -9.000 -9.000 -999.  282.    52.7  0.2470  0.72  1.00  2.60   45.0  15.0  284.8  2.0  0  0.00  80.  1001.   4 NAD-SFC NoSubs
 9 10 12 285  7  -12.3  0.193 -9.000 -9.000 -999.  205.    52.7  0.2470  0.72  0.54  2.10   50.0  15.0  284.8  2.0  0  0.00  80.  1002.   4 NAD-SFC NoSubs
 9 10 12 285  8   35.5  0.192  0.583  0.008  199.  202.   -17.8  0.2470  0.72  0.30  1.50   44.0  15.0  285.8  2.0  0  0.00  69.  1002.   3 NAD-SFC NoSubs
 9 10 12 285  9   86.1  0.162  0.948  0.007  353.  156.    -4.4  0.2470  0.72  0.23  1.00   43.0  15.0  287.2  2.0  0  0.00  59.  1001.   3 NAD-SFC NoSubs
 9 10 12 285 10  125.5  0.112  1.210  0.006  505.   90.    -1.0  0.2470  0.72  0.20  0.50   53.0  15.0  288.9  2.0  0  0.00  49.  1001.   3 NAD-SFC NoSubs
 9 10 12 285 11  150.7  0.111  1.395  0.005  644.   89.    -1.0  0.2090  0.72  0.20  0.50   88.0  15.0  290.1  2.0  0  0.00  46.  1001.   2 NAD-SFC NoSubs
 9 10 12 285 12  161.7  0.110  1.563  0.005  844.   88.    -1.0  0.1970  0.72  0.20  0.50  124.0  15.0  290.6  2.0  0  0.00  46.  1000.   2 NAD-SFC NoSubs
 9 10 12 285 13  158.0  0.110  1.644  0.006 1004.   88.    -1.0  0.1970  0.72  0.20  0.50  122.0  15.0  291.4  2.0  0  0.00  43.   999.   2 NAD-SFC NoSubs
 9 10 12 285 14  139.3  0.110  1.632  0.007 1113.   87.    -1.0  0.2130  0.72  0.20  0.50  117.0  15.0  291.9  2.0  0  0.00  39.   999.   2 NAD-SFC NoSubs
 9 10 12 285 15  106.3  0.104  1.526  0.007 1191.   81.    -1.0  0.1970  0.72  0.21  0.50  135.0  15.0  292.2  2.0  0  0.00  36.   998.   2 NAD-SFC NoSubs
 9 10 12 285 16   61.8  0.095  1.289  0.007 1234.   70.    -1.2  0.1810  0.72  0.26  0.50  153.0  15.0  292.9  2.0  0  0.00  38.   998.   3 NAD-SFC NoSubs
 9 10 12 285 17    8.7  0.076  0.672  0.007 1239.   51.    -4.5  0.2090  0.72  0.39  0.50   63.0  15.0  292.8  2.0  0  0.00  41.   998.   3 NAD-SFC NoSubs
 9 10 12 285 18   -1.4  0.078 -9.000 -9.000 -999.   52.    30.6  0.1750  0.72  1.00  0.50  256.0  15.0  292.1  2.0  0  0.00  46.   998.   3 NAD-SFC NoSubs
 9 10 12 285 19  -12.9  0.173 -9.000 -9.000 -999.  173.    35.9  0.1750  0.72  1.00  2.10  259.0  15.0  291.4  2.0  0  0.00  49.   998.   3 NAD-SFC NoSubs
 9 10 12 285 20  -26.3  0.264 -9.000 -9.000 -999.  325.    62.1  0.1750  0.72  1.00  3.10  267.0  15.0  290.2  2.0  0  0.00  55.   999.   4 NAD-SFC NoSubs
 9 10 12 285 21  -12.7  0.173 -9.000 -9.000 -999.  177.    36.4  0.1750  0.72  1.00  2.10  261.0  15.0  288.8  2.0  0  0.00  63.   999.   4 NAD-SFC NoSubs
 9 10 12 285 22   -1.4  0.079 -9.000 -9.000 -999.   58.    31.0  0.1900  0.72  1.00  0.50  208.0  15.0  287.6  2.0  0  0.00  69.   999.   3 NAD-SFC NoSubs
 9 10 12 285 23   -1.5  0.080 -9.000 -9.000 -999.   55.    31.2  0.2090  0.72  1.00  0.50   88.0  15.0  287.0  2.0  0  0.00  71.   999.   3 NAD-SFC NoSubs
 9 10 12 285 24   -7.1  0.128 -9.000 -9.000 -999.  110.    26.5  0.2130  0.72  1.00  1.50  103.0  15.0  286.8  2.0  0  0.00  71.   999.   3 NAD-SFC NoSubs
 9 10 13 286  1  -22.1  0.230 -9.000 -9.000 -999.  264.    48.9  0.2130  0.72  1.00  2.60  103.0  15.0  286.5  2.0  0  0.00  71.   999.   3 NAD-SFC NoSubs
 9 10 13 286  2  -29.0  0.277 -9.000 -9.000 -999.  350.    65.1  0.2130  0.72  1.00  3.10  112.0  15.0  286.2  2.0  0  0.00  73.   998.   3 NAD-SFC NoSubs
 9 10 13 286  3  -29.0  0.277 -9.000 -9.000 -999.  350.    65.1  0.2130  0.72  1.00  3.10  112.0  15.0  286.2  2.0  0  0.00  73.   998.   3 NAD-SFC NoSubs
 9 10 13 286  4  -20.9  0.225 -9.000 -9.000 -999.  258.    48.6  0.1970  0.72  1.00  2.60  120.0  15.0  286.4  2.0  0  0.00  71.   997.   4 NAD-SFC NoSubs
 9 10 13 286  5  -19.1  0.221 -9.000 -9.000 -999.  250.    50.3  0.1810  0.72  1.00  2.60  178.0  15.0  286.6  2.0  0  0.00  68.   997.   6 NAD-SFC NoSubs
 9 10 13 286  6  -19.2  0.221 -9.000 -9.000 -999.  250.    50.3  0.1810  0.72  1.00  2.60  177.0  15.0  286.2  2.0  0  0.25  72.   997.   6 NAD-SFC NoSubs
 9 10 13 286  7  -17.1  0.275 -9.000 -9.000 -999.  346.   108.1  0.1970  0.72  0.55  3.10  131.0  15.0  286.0  2.0  0  1.27  81.   998.   5 NAD-SFC NoSubs
 9 10 13 286  8   35.2  0.446  0.505  0.005  130.  714.  -223.7  0.1970  0.72  0.30  4.60  124.0  15.0  286.2  2.0  0  1.78  88.   998.   5 NAD-SFC NoSubs
 9 10 13 286  9   82.6  0.600  0.959  0.005  380. 1114.  -232.4  0.1970  0.72  0.23  6.20  126.0  15.0  287.1  2.0  0  1.02  88.   997.   5 NAD-SFC NoSubs
 9 10 13 286 10  119.4  0.695  1.300  0.005  655. 1387.  -249.7  0.1970  0.72  0.21  7.20  128.0  15.0  288.1  2.0  0  0.51  83.   997.   5 NAD-SFC NoSubs
 9 10 13 286 11  143.5  0.656  1.590  0.005  996. 1280.  -174.9  0.1970  0.72  0.20  6.70  126.0  15.0  289.2  2.0  0  0.00  77.   996.   5 NAD-SFC NoSubs
 9 10 13 286 12  153.7  0.615  1.753  0.005 1246. 1163.  -134.7  0.1970  0.72  0.20  6.20  135.0  15.0  289.9  2.0  0  0.25  75.   996.   5 NAD-SFC NoSubs
 9 10 13 286 13  140.9  0.656  1.766  0.006 1390. 1273.  -177.7  0.1970  0.72  0.20  6.70  128.0  15.0  290.1  2.0  0  0.51  77.   996.   6 NAD-SFC NoSubs
 9 10 13 286 14  111.7  0.650  1.662  0.006 1462. 1258.  -218.3  0.1970  0.72  0.20  6.70  122.0  15.0  290.0  2.0  0  1.27  81.   996.   7 NAD-SFC NoSubs
 9 10 13 286 15   95.4  0.658  1.598  0.006 1520. 1279.  -264.5  0.2130  0.72  0.21  6.70  118.0  15.0  289.8  2.0  0  1.27  82.   996.   6 NAD-SFC NoSubs
 9 10 13 286 16   58.4  0.559  1.367  0.007 1555. 1016.  -266.0  0.2130  0.72  0.26  5.70  116.0  15.0  289.8  2.0  0  1.02  83.   996.   5 NAD-SFC NoSubs
 9 10 13 286 17    9.0  0.431  0.734  0.007 1560.  696.  -793.5  0.1970  0.72  0.40  4.60  124.0  15.0  289.9  2.0  0  0.51  85.   996.   6 NAD-SFC NoSubs
 9 10 13 286 18  -38.8  0.411 -9.000 -9.000 -999.  633.   158.4  0.1970  0.72  1.00  4.60  126.0  15.0  290.0  2.0  0  0.25  85.   996.   5 NAD-SFC NoSubs
 9 10 13 286 19  -39.7  0.419 -9.000 -9.000 -999.  651.   165.1  0.2130  0.72  1.00  4.60  116.0  15.0  290.2  2.0  0  0.25  86.   997.   5 NAD-SFC NoSubs
 9 10 13 286 20  -38.9  0.411 -9.000 -9.000 -999.  632.   158.5  0.1970  0.72  1.00  4.60  125.0  15.0  290.2  2.0  0  0.51  87.   997.   5 NAD-SFC NoSubs
 9 10 13 286 21  -34.5  0.364 -9.000 -9.000 -999.  530.   124.8  0.1970  0.72  1.00  4.10  121.0  15.0  290.2  2.0  0  0.51  89.   998.   5 NAD-SFC NoSubs
 9 10 13 286 22  -26.1  0.319 -9.000 -9.000 -999.  434.   111.0  0.1970  0.72  1.00  3.60  124.0  15.0  290.4  2.0  0  1.02  90.   998.   7 NAD-SFC NoSubs
 9 10 13 286 23  -34.5  0.364 -9.000 -9.000 -999.  528.   124.9  0.1970  0.72  1.00  4.10  120.0  15.0  290.5  2.0  0  0.76  90.   999.   5 NAD-SFC NoSubs
 9 10 13 286 24  -36.2  0.364 -9.000 -9.000 -999.  527.   118.6  0.1970  0.72  1.00  4.10  124.0  15.0  290.8  2.0  0  0.25  88.   999.   4 NAD-SFC NoSubs
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 9 10 14 287   1  -31.6  0.318 -9.000 -9.000 -999.  431.     90.5  0.1970  0.72  1.00   3.60  125.0  15.0  290.9   2.0    0   0.00   86.   999.     4 NAD-SFC NoSubs
 9 10 14 287   2  -32.2  0.324 -9.000 -9.000 -999.  443.     94.4  0.2130  0.72  1.00   3.60  111.0  15.0  291.1   2.0    0   0.00   85.   999.     4 NAD-SFC NoSubs
 9 10 14 287   3  -32.2  0.324 -9.000 -9.000 -999.  444.     94.4  0.2130  0.72  1.00   3.60  112.0  15.0  291.2   2.0    0   0.00   84.   999.     4 NAD-SFC NoSubs
 9 10 14 287   4  -37.0  0.372 -9.000 -9.000 -999.  543.    123.7  0.2130  0.72  1.00   4.10  104.0  15.0  291.1   2.0    0   0.00   84.  1000.     4 NAD-SFC NoSubs
 9 10 14 287   5  -37.0  0.372 -9.000 -9.000 -999.  543.    123.6  0.2130  0.72  1.00   4.10  101.0  15.0  290.8   2.0    0   0.00   85.  1000.     4 NAD-SFC NoSubs
 9 10 14 287   6  -36.9  0.370 -9.000 -9.000 -999.  539.    122.3  0.2090  0.72  1.00   4.10   89.0  15.0  290.6   2.0    0   0.00   87.  1001.     4 NAD-SFC NoSubs
 9 10 14 287   7  -21.8  0.327 -9.000 -9.000 -999.  450.    143.3  0.2130  0.72  0.55   3.60   95.0  15.0  290.6   2.0    0   0.00   88.  1002.     4 NAD-SFC NoSubs
 9 10 14 287   8   35.9  0.281  0.567  0.005  182.  358.    -55.0  0.2130  0.72  0.30   2.60   90.0  15.0  291.2   2.0    0   0.00   86.  1003.     5 NAD-SFC NoSubs
 9 10 14 287   9   83.6  0.203  1.042  0.006  485.  221.     -8.9  0.2090  0.72  0.23   1.50   88.0  15.0  292.9   2.0    0   0.00   80.  1003.     5 NAD-SFC NoSubs
 9 10 14 287  10  120.9  0.107  1.292  0.005  639.   88.     -1.0  0.2090  0.72  0.21   0.50   64.0  15.0  294.9   2.0    0   0.00   69.  1004.     5 NAD-SFC NoSubs
 9 10 14 287  11  102.6  0.113  1.291  0.005  753.   91.     -1.3  0.2940  0.72  0.20   0.50   15.0  15.0  296.2   2.0    0   0.00   63.  1004.     8 NAD-SFC NoSubs
 9 10 14 287  12   40.3  0.154  0.964  0.005  794.  144.     -8.0  0.2940  0.72  0.20   1.00   22.0  15.0  296.8   2.0    0   0.00   60.  1003.    10 NAD-SFC NoSubs
 9 10 14 287  13   39.5  0.202  0.972  0.005  832.  217.    -18.6  0.2940  0.72  0.20   1.50   13.0  15.0  297.1   2.0    0   0.00   59.  1003.    10 NAD-SFC NoSubs
 9 10 14 287  14   34.8 -9.000 -9.000 -9.000  863. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  297.2   2.0    0   0.00   59.  1004.    10 NAD-SFC NoSubs
 9 10 14 287  15   87.7  0.276  1.320  0.005  939.  349.    -21.5  0.2940  0.72  0.22   2.10    6.0  15.0  297.2   2.0    0   0.00   59.  1003.     7 NAD-SFC NoSubs
 9 10 14 287  16   57.1  0.311  1.164  0.005  989.  417.    -47.3  0.2940  0.72  0.26   2.60   20.0  15.0  297.1   2.0    0   0.00   63.  1003.     6 NAD-SFC NoSubs
 9 10 14 287  17   10.4  0.270  0.662  0.005  999.  337.   -169.7  0.2470  0.72  0.41   2.60   32.0  15.0  296.8   2.0    0   0.00   68.  1003.     5 NAD-SFC NoSubs
 9 10 14 287  18  -28.4  0.304 -9.000 -9.000 -999.  403.     88.7  0.2940  0.72  1.00   3.10   29.0  15.0  295.9   2.0    0   0.00   70.  1004.     5 NAD-SFC NoSubs
 9 10 14 287  19  -14.4  0.191 -9.000 -9.000 -999.  207.     43.3  0.2470  0.72  1.00   2.10   32.0  15.0  295.1   2.0    0   0.00   72.  1005.     5 NAD-SFC NoSubs
 9 10 14 287  20   -3.7  0.099 -9.000 -9.000 -999.   79.     23.8  0.2930  0.72  1.00   1.00  354.0  15.0  294.2   2.0    0   0.00   73.  1005.     5 NAD-SFC NoSubs
 9 10 14 287  21  -13.6  0.184 -9.000 -9.000 -999.  189.     41.0  0.2160  0.72  1.00   2.10  284.0  15.0  293.8   2.0    0   0.00   75.  1006.     5 NAD-SFC NoSubs
 9 10 14 287  22  -30.9  0.326 -9.000 -9.000 -999.  447.    100.6  0.2160  0.72  1.00   3.60  279.0  15.0  292.4   2.0    0   0.00   82.  1006.     5 NAD-SFC NoSubs
 9 10 14 287  23  -31.1  0.326 -9.000 -9.000 -999.  447.    100.2  0.2160  0.72  1.00   3.60  291.0  15.0  291.1   2.0    0   0.00   90.  1007.     5 NAD-SFC NoSubs
 9 10 14 287  24  -31.2  0.326 -9.000 -9.000 -999.  447.     99.7  0.2160  0.72  1.00   3.60  294.0  15.0  289.9   2.0    0   0.00   97.  1007.     5 NAD-SFC NoSubs
 9 10 15 288   1  -25.1  0.279 -9.000 -9.000 -999.  355.     77.9  0.2160  0.72  1.00   3.10  286.0  15.0  289.1   2.0    0   0.00  100.  1007.     6 NAD-SFC NoSubs
 9 10 15 288   2  -21.4  0.231 -9.000 -9.000 -999.  268.     51.9  0.2160  0.72  1.00   2.60  292.0  15.0  288.8   2.0    0   0.00  100.  1007.     5 NAD-SFC NoSubs
 9 10 15 288   3  -14.0  0.183 -9.000 -9.000 -999.  189.     39.4  0.2160  0.72  1.00   2.10  281.0  15.0  288.8   2.0    0   0.00   99.  1007.     4 NAD-SFC NoSubs
 9 10 15 288   4   -6.6  0.122 -9.000 -9.000 -999.  104.     25.0  0.1750  0.72  1.00   1.50  264.0  15.0  288.8   2.0    0   0.00   98.  1007.     3 NAD-SFC NoSubs
 9 10 15 288   5   -3.5  0.095 -9.000 -9.000 -999.   70.     22.0  0.1950  0.72  1.00   1.00  211.0  15.0  288.5   2.0    0   0.00   98.  1008.     3 NAD-SFC NoSubs
 9 10 15 288   6   -6.9  0.126 -9.000 -9.000 -999.  107.     25.9  0.1970  0.72  1.00   1.50  147.0  15.0  288.2   2.0    0   0.00   99.  1008.     3 NAD-SFC NoSubs
 9 10 15 288   7   -2.7  0.087 -9.000 -9.000 -999.   62.     21.9  0.1810  0.72  0.56   1.00  155.0  15.0  288.1   2.0    0   0.00   99.  1008.     3 NAD-SFC NoSubs
 9 10 15 288   8   31.8  0.088  0.526  0.009  164.   63.     -2.0  0.1950  0.72  0.31   0.50  221.0  15.0  288.2   2.0    0   0.00   98.  1009.     2 NAD-SFC NoSubs
 9 10 15 288   9   82.5  0.150  0.876  0.007  294.  139.     -3.7  0.1750  0.72  0.23   1.00  248.0  15.0  289.2   2.0    0   0.00   93.  1009.     2 NAD-SFC NoSubs
 9 10 15 288  10  122.1  0.103  1.136  0.006  432.   80.     -1.0  0.1750  0.72  0.21   0.50  261.0  15.0  290.6   2.0    0   0.00   86.  1009.     2 NAD-SFC NoSubs
 9 10 15 288  11  148.4 -9.000 -9.000 -9.000  608. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  293.2   2.0    0   0.00   74.  1009.     2 NAD-SFC NoSubs
 9 10 15 288  12  159.7 -9.000 -9.000 -9.000  785. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  294.9   2.0    0   0.00   66.  1008.     2 NAD-SFC NoSubs
 9 10 15 288  13  156.1 -9.000 -9.000 -9.000  939. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  296.2   2.0    0   0.00   60.  1007.     2 NAD-SFC NoSubs
 9 10 15 288  14  137.5  0.176  1.581  0.007 1033.  177.     -3.5  0.2720  0.72  0.20   1.00  324.0  15.0  297.1   2.0    0   0.00   56.  1006.     2 NAD-SFC NoSubs
 9 10 15 288  15  104.5  0.224  1.471  0.007 1093.  254.     -9.6  0.2930  0.72  0.22   1.50  334.0  15.0  297.6   2.0    0   0.00   53.  1005.     2 NAD-SFC NoSubs
 9 10 15 288  16   58.4  0.265  1.223  0.007 1124.  328.    -28.7  0.2930  0.72  0.26   2.10  342.0  15.0  297.6   2.0    0   0.00   54.  1005.     2 NAD-SFC NoSubs
 9 10 15 288  17    5.4  0.227  0.554  0.007 1127.  259.   -192.8  0.2930  0.72  0.41   2.10  349.0  15.0  297.5   2.0    0   0.00   58.  1005.     2 NAD-SFC NoSubs
 9 10 15 288  18   -8.2  0.140 -9.000 -9.000 -999.  128.     29.8  0.2940  0.72  1.00   1.50    9.0  15.0  296.6   2.0    0   0.00   62.  1005.     2 NAD-SFC NoSubs
 9 10 15 288  19   -3.5  0.096 -9.000 -9.000 -999.   71.     22.3  0.2090  0.72  1.00   1.00   64.0  15.0  295.5   2.0    0   0.00   66.  1006.     2 NAD-SFC NoSubs
 9 10 15 288  20   -1.5  0.081 -9.000 -9.000 -999.   55.     31.3  0.2130  0.72  1.00   0.50  108.0  15.0  294.2   2.0    0   0.00   71.  1006.     2 NAD-SFC NoSubs
 9 10 15 288  21   -1.5  0.080 -9.000 -9.000 -999.   54.     31.2  0.1970  0.72  1.00   0.50  130.0  15.0  293.1   2.0    0   0.00   77.  1006.     2 NAD-SFC NoSubs
 9 10 15 288  22   -3.5  0.095 -9.000 -9.000 -999.   71.     22.1  0.1970  0.72  1.00   1.00  132.0  15.0  292.1   2.0    0   0.00   81.  1006.     2 NAD-SFC NoSubs
 9 10 15 288  23   -3.5  0.095 -9.000 -9.000 -999.   71.     22.1  0.1970  0.72  1.00   1.00  133.0  15.0  291.4   2.0    0   0.00   84.  1007.     2 NAD-SFC NoSubs
 9 10 15 288  24   -3.6  0.097 -9.000 -9.000 -999.   72.     22.4  0.2130  0.72  1.00   1.00  116.0  15.0  290.8   2.0    0   0.00   86.  1006.     2 NAD-SFC NoSubs
 9 10 16 289   1   -1.5  0.080 -9.000 -9.000 -999.   55.     31.3  0.1970  0.72  1.00   0.50  123.0  15.0  290.2   2.0    0   0.00   89.  1006.     2 NAD-SFC NoSubs
 9 10 16 289   2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  289.8   2.0    0   0.00   91.  1006.     2 NAD-SFC NoSubs
 9 10 16 289   3   -1.5  0.081 -9.000 -9.000 -999.   56.     31.5  0.2160  0.72  1.00   0.50  273.0  15.0  289.4   2.0    0   0.00   93.  1006.     2 NAD-SFC NoSubs
 9 10 16 289   4   -1.5  0.081 -9.000 -9.000 -999.   56.     31.5  0.2160  0.72  1.00   0.50  294.0  15.0  289.0   2.0    0   0.00   95.  1006.     2 NAD-SFC NoSubs
 9 10 16 289   5   -1.5  0.081 -9.000 -9.000 -999.   56.     31.5  0.2160  0.72  1.00   0.50  277.0  15.0  288.6   2.0    0   0.00   98.  1006.     2 NAD-SFC NoSubs
 9 10 16 289   6   -3.4  0.094 -9.000 -9.000 -999.   69.     21.7  0.1750  0.72  1.00   1.00  260.0  15.0  288.2   2.0    0   0.00  100.  1006.     2 NAD-SFC NoSubs
 9 10 16 289   7   -2.8  0.088 -9.000 -9.000 -999.   63.     21.6  0.1750  0.72  0.57   1.00  250.0  15.0  287.5   2.0    0   0.00  100.  1006.     2 NAD-SFC NoSubs
 9 10 16 289   8   30.6  0.133  0.436  0.008   97.  117.     -7.0  0.1750  0.72  0.31   1.00  264.0  15.0  287.5   2.0    0   0.00  100.  1006.     2 NAD-SFC NoSubs
 9 10 16 289   9   81.5  0.149  0.870  0.009  290.  139.     -3.7  0.1750  0.72  0.23   1.00  268.0  15.0  289.4   2.0    0   0.00   95.  1006.     2 NAD-SFC NoSubs
 9 10 16 289  10  121.7 -9.000 -9.000 -9.000  477. -999. -99999.0  0.2235  0.72  0.21   0.00    0.0  15.0  292.6   2.0    0   0.00   79.  1005.     2 NAD-SFC NoSubs
 9 10 16 289  11  147.9 -9.000 -9.000 -9.000  632. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  294.9   2.0    0   0.00   67.  1004.     2 NAD-SFC NoSubs
 9 10 16 289  12  159.3 -9.000 -9.000 -9.000  714. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  296.6   2.0    0   0.00   60.  1003.     2 NAD-SFC NoSubs
 9 10 16 289  13  155.7  0.118  1.501  0.011  776.   97.     -1.0  0.2720  0.72  0.20   0.50  326.0  15.0  298.1   2.0    0   0.00   54.  1002.     2 NAD-SFC NoSubs
 9 10 16 289  14  137.2  0.230  1.470  0.010  828.  265.     -8.0  0.2930  0.72  0.20   1.50  337.0  15.0  299.2   2.0    0   0.00   50.  1001.     2 NAD-SFC NoSubs
 9 10 16 289  15  104.2  0.281  1.361  0.010  865.  357.    -19.0  0.2930  0.72  0.22   2.10  351.0  15.0  299.8   2.0    0   0.00   48.  1001.     2 NAD-SFC NoSubs
 9 10 16 289  16   58.1 -9.000 -9.000 -9.000  884. -999. -99999.0  0.2235  0.72  0.26   0.00    0.0  15.0  299.8   2.0    0   0.00   52.  1001.     2 NAD-SFC NoSubs
 9 10 16 289  17    5.1  0.274  0.502  0.009  886.  344.   -360.3  0.2940  0.72  0.42   2.60   19.0  15.0  299.2   2.0    0   0.00   55.  1000.     2 NAD-SFC NoSubs
 9 10 16 289  18  -15.1  0.190 -9.000 -9.000 -999.  202.     40.7  0.2470  0.72  1.00   2.10   33.0  15.0  298.0   2.0    0   0.00   59.  1001.     2 NAD-SFC NoSubs
 9 10 16 289  19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  296.6   2.0    0   0.00   64.  1001.     2 NAD-SFC NoSubs
 9 10 16 289  20   -1.4  0.079 -9.000 -9.000 -999.   54.     31.0  0.1900  0.72  1.00   0.50  184.0  15.0  295.2   2.0    0   0.00   71.  1001.     2 NAD-SFC NoSubs
 9 10 16 289  21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  294.1   2.0    0   0.00   76.  1002.     2 NAD-SFC NoSubs
 9 10 16 289  22   -1.5  0.080 -9.000 -9.000 -999.   55.     31.3  0.2090  0.72  1.00   0.50   83.0  15.0  293.2   2.0    0   0.00   81.  1002.     2 NAD-SFC NoSubs
 9 10 16 289  23   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.2130  0.72  1.00   0.50   92.0  15.0  292.2   2.0    0   0.00   86.  1002.     2 NAD-SFC NoSubs
 9 10 16 289  24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  291.5   2.0    0   0.00   90.  1002.     2 NAD-SFC NoSubs
 9 10 17 290   1   -3.6  0.097 -9.000 -9.000 -999.   72.     22.4  0.2160  0.72  1.00   1.00  279.0  15.0  291.1   2.0    0   0.00   89.  1002.     2 NAD-SFC NoSubs
 9 10 17 290   2   -6.6  0.122 -9.000 -9.000 -999.  103.     24.8  0.1750  0.72  1.00   1.50  269.0  15.0  291.0   2.0    0   0.00   86.  1002.     2 NAD-SFC NoSubs
 9 10 17 290   3  -20.5  0.218 -9.000 -9.000 -999.  244.     45.3  0.1750  0.72  1.00   2.60  268.0  15.0  290.8   2.0    0   0.00   84.  1003.     2 NAD-SFC NoSubs
 9 10 17 290   4  -14.4  0.183 -9.000 -9.000 -999.  188.     38.1  0.2160  0.72  1.00   2.10  276.0  15.0  290.4   2.0    0   0.00   83.  1003.     2 NAD-SFC NoSubs
 9 10 17 290   5   -7.2  0.129 -9.000 -9.000 -999.  112.     26.4  0.2160  0.72  1.00   1.50  289.0  15.0  290.0   2.0    0   0.00   84.  1003.     2 NAD-SFC NoSubs
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 9 10 17 290   6   -3.6  0.097 -9.000 -9.000 -999.   72.     22.4  0.2160  0.72  1.00  1.00  298.0  15.0  289.6  2.0   0  0.00   85.  1003.   2 NAD-SFC NoSubs
 9 10 17 290   7   -1.2  0.074 -9.000 -9.000 -999.   48.     29.2  0.2160  0.72  0.57  0.50  280.0  15.0  289.2  2.0   0  0.00   87.  1003.   2 NAD-SFC NoSubs
 9 10 17 290   8   30.3  0.133  0.426  0.013   91.  117.     -7.0  0.1750  0.72  0.31  1.00  257.0  15.0  289.9  2.0   0  0.00   83.  1003.   2 NAD-SFC NoSubs
 9 10 17 290   9   81.4  0.156  0.786  0.011  213.  148.     -4.2  0.2160  0.72  0.23  1.00  284.0  15.0  292.4  2.0   0  0.00   70.  1003.   2 NAD-SFC NoSubs
 9 10 17 290  10  121.3 -9.000 -9.000 -9.000  381. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  294.6  2.0   0  0.00   61.  1003.   2 NAD-SFC NoSubs
 9 10 17 290  11  147.6 -9.000 -9.000 -9.000  505. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  296.9  2.0   0  0.00   53.  1003.   2 NAD-SFC NoSubs
 9 10 17 290  12  158.9 -9.000 -9.000 -9.000  610. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  298.4  2.0   0  0.00   48.  1002.   2 NAD-SFC NoSubs
 9 10 17 290  13  155.0  0.181  1.448  0.010  700.  185.     -3.4  0.2930  0.72  0.20  1.00  342.0  15.0  299.2  2.0   0  0.00   45.  1001.   2 NAD-SFC NoSubs
 9 10 17 290  14  136.2  0.288  1.433  0.009  772.  372.    -15.7  0.2930  0.72  0.20  2.10  352.0  15.0  299.8  2.0   0  0.00   45.  1000.   2 NAD-SFC NoSubs
 9 10 17 290  15  102.8  0.281  1.332  0.009  822.  357.    -19.2  0.2940  0.72  0.22  2.10    7.0  15.0  299.8  2.0   0  0.00   49.  1000.   2 NAD-SFC NoSubs
 9 10 17 290  16   56.6  0.160  1.104  0.009  847.  162.     -6.5  0.2930  0.72  0.27  1.00  357.0  15.0  299.5  2.0   0  0.00   45.  1000.   2 NAD-SFC NoSubs
 9 10 17 290  17    3.7 -9.000 -9.000 -9.000  848. -999. -99999.0  0.2235  0.72  0.42  0.00    0.0  15.0  298.8  2.0   0  0.00   49.  1000.   2 NAD-SFC NoSubs
 9 10 17 290  18   -1.4  0.079 -9.000 -9.000 -999.   53.     30.9  0.1900  0.72  1.00  0.50  187.0  15.0  297.5  2.0   0  0.00   55.  1000.   2 NAD-SFC NoSubs
 9 10 17 290  19   -3.4  0.094 -9.000 -9.000 -999.   69.     21.9  0.1900  0.72  1.00  1.00  202.0  15.0  296.4  2.0   0  0.00   60.  1000.   2 NAD-SFC NoSubs
 9 10 17 290  20   -1.4  0.079 -9.000 -9.000 -999.   54.     31.0  0.1900  0.72  1.00  0.50  200.0  15.0  295.6  2.0   0  0.00   63.  1000.   2 NAD-SFC NoSubs
 9 10 17 290  21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  294.8  2.0   0  0.00   67.  1001.   2 NAD-SFC NoSubs
 9 10 17 290  22   -1.6  0.082 -9.000 -9.000 -999.   56.     31.6  0.2470  0.72  1.00  0.50   39.0  15.0  294.1  2.0   0  0.00   70.  1001.   2 NAD-SFC NoSubs
 9 10 17 290  23   -4.0  0.102 -9.000 -9.000 -999.   78.     23.7  0.2940  0.72  1.00  1.00   17.0  15.0  293.6  2.0   0  0.00   73.  1001.   2 NAD-SFC NoSubs
 9 10 17 290  24   -8.2  0.140 -9.000 -9.000 -999.  125.     29.6  0.2930  0.72  1.00  1.50  348.0  15.0  293.2  2.0   0  0.00   74.  1001.   2 NAD-SFC NoSubs
 9 10 18 291   1  -25.7  0.252 -9.000 -9.000 -999.  303.     55.3  0.2930  0.72  1.00  2.60  338.0  15.0  292.9  2.0   0  0.00   77.  1001.   2 NAD-SFC NoSubs
 9 10 18 291   2  -25.7  0.252 -9.000 -9.000 -999.  303.     55.2  0.2930  0.72  1.00  2.60  353.0  15.0  292.2  2.0   0  0.00   84.  1001.   2 NAD-SFC NoSubs
 9 10 18 291   3   -8.3  0.140 -9.000 -9.000 -999.  132.     29.5  0.2930  0.72  1.00  1.50  354.0  15.0  291.8  2.0   0  0.00   90.  1001.   2 NAD-SFC NoSubs
 9 10 18 291   4   -1.6  0.083 -9.000 -9.000 -999.   58.     31.9  0.2720  0.72  1.00  0.50  321.0  15.0  291.2  2.0   0  0.00   93.  1002.   2 NAD-SFC NoSubs
 9 10 18 291   5   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.2160  0.72  1.00  0.50  278.0  15.0  291.0  2.0   0  0.00   96.  1002.   2 NAD-SFC NoSubs
 9 10 18 291   6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  290.8  2.0   0  0.00   99.  1002.   2 NAD-SFC NoSubs
 9 10 18 291   7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.58  0.00    0.0  15.0  290.5  2.0   0  0.00  100.  1002.   2 NAD-SFC NoSubs
 9 10 18 291   8   29.5 -9.000 -9.000 -9.000  137. -999. -99999.0  0.2235  0.72  0.31  0.00    0.0  15.0  290.5  2.0   0  0.00  100.  1002.   2 NAD-SFC NoSubs
 9 10 18 291   9   79.7  0.109  0.823  0.011  250.   87.     -1.5  0.2930  0.72  0.23  0.50  332.0  15.0  290.6  2.0   0  0.00  100.  1003.   2 NAD-SFC NoSubs
 9 10 18 291  10  118.6 -9.000 -9.000 -9.000  381. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  290.5  2.0   0  0.00  100.  1003.   2 NAD-SFC NoSubs
 9 10 18 291  11  144.1  0.119  1.274  0.011  513.   98.     -1.0  0.2930  0.72  0.20  0.50  353.0  15.0  291.5  2.0   0  0.00   97.  1003.   2 NAD-SFC NoSubs
 9 10 18 291  12  155.4  0.120  1.397  0.010  628.  100.     -1.0  0.2930  0.72  0.20  0.50  332.0  15.0  293.4  2.0   0  0.00   85.  1002.   2 NAD-SFC NoSubs
 9 10 18 291  13  151.8  0.181  1.449  0.009  717.  184.     -3.5  0.2930  0.72  0.20  1.00  338.0  15.0  295.2  2.0   0  0.00   73.  1001.   2 NAD-SFC NoSubs
 9 10 18 291  14  133.0  0.178  1.429  0.008  783.  180.     -3.8  0.2930  0.72  0.20  1.00  350.0  15.0  296.1  2.0   0  0.00   67.  1001.   2 NAD-SFC NoSubs
 9 10 18 291  15   99.8  0.280  1.323  0.008  830.  355.    -19.6  0.2930  0.72  0.22  2.10  354.0  15.0  296.4  2.0   0  0.00   67.  1001.   2 NAD-SFC NoSubs
 9 10 18 291  16   53.7  0.264  1.087  0.008  854.  325.    -30.4  0.2930  0.72  0.27  2.10  356.0  15.0  296.4  2.0   0  0.00   67.  1000.   2 NAD-SFC NoSubs
 9 10 18 291  17    1.3  0.218  0.317  0.008  854.  244.   -692.8  0.2930  0.72  0.43  2.10  358.0  15.0  296.2  2.0   0  0.00   71.  1000.   2 NAD-SFC NoSubs
 9 10 18 291  18  -31.7  0.303 -9.000 -9.000 -999.  401.     78.6  0.2940  0.72  1.00  3.10    7.0  15.0  295.2  2.0   0  0.00   76.  1001.   2 NAD-SFC NoSubs
 9 10 18 291  19  -31.8  0.303 -9.000 -9.000 -999.  401.     78.3  0.2940  0.72  1.00  3.10   25.0  15.0  294.2  2.0   0  0.00   80.  1001.   2 NAD-SFC NoSubs
 9 10 18 291  20   -8.1  0.140 -9.000 -9.000 -999.  148.     30.0  0.2930  0.72  1.00  1.50  341.0  15.0  293.5  2.0   0  0.00   84.  1002.   3 NAD-SFC NoSubs
 9 10 18 291  21  -21.2  0.231 -9.000 -9.000 -999.  267.     52.4  0.2160  0.72  1.00  2.60  285.0  15.0  292.8  2.0   0  0.00   84.  1002.   5 NAD-SFC NoSubs
 9 10 18 291  22  -26.7  0.327 -9.000 -9.000 -999.  449.    117.1  0.2160  0.72  1.00  3.60  286.0  15.0  291.8  2.0   0  0.00   80.  1002.   7 NAD-SFC NoSubs
 9 10 18 291  23  -33.0  0.347 -9.000 -9.000 -999.  491.    113.6  0.2720  0.72  1.00  3.60  316.0  15.0  290.8  2.0   0  0.00   77.  1003.   5 NAD-SFC NoSubs
 9 10 18 291  24  -33.9  0.355 -9.000 -9.000 -999.  508.    118.2  0.2930  0.72  1.00  3.60  330.0  15.0  289.5  2.0   0  0.00   75.  1003.   5 NAD-SFC NoSubs
 9 10 19 292   1  -35.7  0.355 -9.000 -9.000 -999.  507.    111.7  0.2930  0.72  1.00  3.60  340.0  15.0  288.4  2.0   0  0.00   73.  1003.   4 NAD-SFC NoSubs
 9 10 19 292   2  -25.2  0.252 -9.000 -9.000 -999.  309.     56.7  0.2930  0.72  1.00  2.60  354.0  15.0  287.8  2.0   0  0.00   72.  1004.   4 NAD-SFC NoSubs
 9 10 19 292   3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  287.1  2.0   0  0.00   72.  1004.   3 NAD-SFC NoSubs
 9 10 19 292   4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  286.5  2.0   0  0.00   73.  1005.   3 NAD-SFC NoSubs
 9 10 19 292   5   -1.7  0.085 -9.000 -9.000 -999.   59.     32.2  0.2930  0.72  1.00  0.50  334.0  15.0  286.0  2.0   0  0.00   74.  1005.   2 NAD-SFC NoSubs
 9 10 19 292   6   -1.7  0.084 -9.000 -9.000 -999.   58.     32.1  0.2720  0.72  1.00  0.50  318.0  15.0  285.8  2.0   0  0.00   75.  1005.   2 NAD-SFC NoSubs
 9 10 19 292   7   12.7 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.59  0.00    0.0  15.0  285.5  2.0   0  0.00   76.  1006.   2 NAD-SFC NoSubs
 9 10 19 292   8   27.0 -9.000 -9.000 -9.000  231. -999. -99999.0  0.2235  0.72  0.32  0.00    0.0  15.0  285.5  2.0   0  0.00   76.  1006.   2 NAD-SFC NoSubs
 9 10 19 292   9   77.2 -9.000 -9.000 -9.000  346. -999. -99999.0  0.2235  0.72  0.23  0.00    0.0  15.0  286.2  2.0   0  0.00   72.  1006.   2 NAD-SFC NoSubs
 9 10 19 292  10  116.5 -9.000 -9.000 -9.000  476. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  287.5  2.0   0  0.00   66.  1006.   2 NAD-SFC NoSubs
 9 10 19 292  11  142.1 -9.000 -9.000 -9.000  602. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  289.0  2.0   0  0.00   57.  1006.   2 NAD-SFC NoSubs
 9 10 19 292  12  153.1 -9.000 -9.000 -9.000  785. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  290.5  2.0   0  0.00   48.  1005.   2 NAD-SFC NoSubs
 9 10 19 292  13  149.1  0.111  1.595  0.009  975.   89.     -1.0  0.2160  0.72  0.20  0.50  271.0  15.0  291.8  2.0   0  0.00   40.  1004.   2 NAD-SFC NoSubs
 9 10 19 292  14  130.3  0.109  1.559  0.009 1043.   86.     -1.0  0.2160  0.72  0.20  0.50  283.0  15.0  292.8  2.0   0  0.00   34.  1003.   2 NAD-SFC NoSubs
 9 10 19 292  15   97.0  0.168  1.435  0.010 1091.  165.     -4.3  0.2720  0.72  0.22  1.00  308.0  15.0  293.2  2.0   0  0.00   31.  1002.   2 NAD-SFC NoSubs
 9 10 19 292  16   52.3  0.207  1.177  0.010 1115.  226.    -15.2  0.2930  0.72  0.27  1.50  348.0  15.0  293.2  2.0   0  0.00   31.  1002.   3 NAD-SFC NoSubs
 9 10 19 292  17    0.5  0.266  0.257  0.010 1114.  329.  -3083.4  0.2940  0.72  0.44  2.60    8.0  15.0  292.8  2.0   0  0.00   38.  1002.   3 NAD-SFC NoSubs
 9 10 19 292  18  -31.3  0.304 -9.000 -9.000 -999.  401.     79.8  0.2940  0.72  1.00  3.10   11.0  15.0  291.9  2.0   0  0.00   42.  1002.   3 NAD-SFC NoSubs
 9 10 19 292  19  -16.4  0.200 -9.000 -9.000 -999.  220.     43.7  0.2940  0.72  1.00  2.10    2.0  15.0  291.0  2.0   0  0.00   46.  1002.   3 NAD-SFC NoSubs
 9 10 19 292  20   -7.0  0.129 -9.000 -9.000 -999.  112.     27.2  0.2160  0.72  1.00  1.50  294.0  15.0  290.1  2.0   0  0.00   50.  1003.   4 NAD-SFC NoSubs
 9 10 19 292  21  -28.0  0.278 -9.000 -9.000 -999.  353.     69.0  0.2160  0.72  1.00  3.10  289.0  15.0  289.2  2.0   0  0.00   53.  1003.   4 NAD-SFC NoSubs
 9 10 19 292  22  -45.2  0.448 -9.000 -9.000 -999.  719.    177.9  0.2720  0.72  1.00  4.60  313.0  15.0  287.9  2.0   0  0.00   64.  1003.   4 NAD-SFC NoSubs
 9 10 19 292  23  -46.4  0.458 -9.000 -9.000 -999.  743.    185.0  0.2930  0.72  1.00  4.60  332.0  15.0  286.8  2.0   0  0.00   79.  1004.   4 NAD-SFC NoSubs
 9 10 19 292  24  -33.5  0.347 -9.000 -9.000 -999.  500.    111.9  0.2720  0.72  1.00  3.60  316.0  15.0  286.4  2.0   0  0.00   85.  1004.   5 NAD-SFC NoSubs
 9 10 20 293   1  -16.6  0.301 -9.000 -9.000 -999.  397.    146.9  0.2720  0.72  1.00  3.10  306.0  15.0  286.8  2.0   0  0.00   86.  1004.  10 NAD-SFC NoSubs
 9 10 20 293   2  -16.6  0.301 -9.000 -9.000 -999.  396.    147.0  0.2720  0.72  1.00  3.10  310.0  15.0  286.9  2.0   0  0.00   89.  1005.  10 NAD-SFC NoSubs
 9 10 20 293   3  -13.8  0.250 -9.000 -9.000 -999.  302.    101.9  0.2720  0.72  1.00  2.60  320.0  15.0  286.8  2.0   0  0.00   92.  1005.  10 NAD-SFC NoSubs
 9 10 20 293   4  -13.8  0.250 -9.000 -9.000 -999.  301.    101.9  0.2720  0.72  1.00  2.60  326.0  15.0  286.8  2.0   0  0.00   93.  1005.  10 NAD-SFC NoSubs
 9 10 20 293   5  -22.4  0.247 -9.000 -9.000 -999.  295.     60.5  0.2720  0.72  1.00  2.60  324.0  15.0  286.4  2.0   0  0.00   95.  1006.   6 NAD-SFC NoSubs
 9 10 20 293   6  -24.5  0.246 -9.000 -9.000 -999.  293.     54.8  0.2720  0.72  1.00  2.60  300.0  15.0  285.8  2.0   0  0.00   98.  1006.   4 NAD-SFC NoSubs
 9 10 20 293   7  -20.6  0.232 -9.000 -9.000 -999.  268.     54.4  0.2160  0.72  0.59  2.60  295.0  15.0  285.0  2.0   0  0.00  100.  1006.   3 NAD-SFC NoSubs
 9 10 20 293   8   27.3  0.245  0.586  0.005  264.  292.    -48.5  0.2720  0.72  0.32  2.10  310.0  15.0  284.8  2.0   0  0.00  100.  1007.   3 NAD-SFC NoSubs
 9 10 20 293   9   77.2  0.268  1.014  0.005  485.  333.    -22.4  0.2720  0.72  0.24  2.10  324.0  15.0  286.6  2.0   0  0.00   86.  1007.   3 NAD-SFC NoSubs
 9 10 20 293  10  116.1  0.222  1.280  0.005  649.  252.     -8.5  0.2720  0.72  0.21  1.50  317.0  15.0  287.9  2.0   0  0.00   75.  1007.   3 NAD-SFC NoSubs
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 9 10 20 293 11  140.9  0.176  1.466  0.005  804.  178.    -3.5  0.2720  0.72  0.20  1.00  324.0  15.0  289.2  2.0  0  0.00  67.  1006.  2 NAD-SFC NoSubs
 9 10 20 293 12  151.8  0.178  1.586  0.005  943.  180.    -3.3  0.2720  0.72  0.20  1.00  316.0  15.0  290.5  2.0  0  0.00  60.  1005.  2 NAD-SFC NoSubs
 9 10 20 293 13  147.8  0.177  1.644  0.006 1078.  179.    -3.4  0.2720  0.72  0.20  1.00  319.0  15.0  291.6  2.0  0  0.00  54.  1004.  2 NAD-SFC NoSubs
 9 10 20 293 14  128.8  0.229  1.622  0.007 1187.  262.    -8.3  0.2930  0.72  0.20  1.50  334.0  15.0  292.4  2.0  0  0.00  51.  1004.  2 NAD-SFC NoSubs
 9 10 20 293 15   95.5  0.221  1.498  0.007 1262.  250.   -10.2  0.2930  0.72  0.22  1.50  344.0  15.0  292.8  2.0  0  0.00  49.  1003.  2 NAD-SFC NoSubs
 9 10 20 293 16   49.5  0.262  1.216  0.008 1299.  321.   -32.4  0.2930  0.72  0.27  2.10  352.0  15.0  292.9  2.0  0  0.00  49.  1003.  2 NAD-SFC NoSubs
 9 10 20 293 17   -1.3  0.097 -9.000 -9.000 -999.  101.    64.7  0.2940  0.72  0.44  1.00   23.0  15.0  292.8  2.0  0  0.00  53.  1003.  2 NAD-SFC NoSubs
 9 10 20 293 18   -1.5  0.081 -9.000 -9.000 -999.   55.    31.4  0.2130  0.72  1.00  0.50  111.0  15.0  292.0  2.0  0  0.00  57.  1003.  2 NAD-SFC NoSubs
 9 10 20 293 19   -3.5  0.095 -9.000 -9.000 -999.   71.    22.1  0.1970  0.72  1.00  1.00  148.0  15.0  290.8  2.0  0  0.00  63.  1004.  2 NAD-SFC NoSubs
 9 10 20 293 20  -20.8  0.220 -9.000 -9.000 -999.  248.    45.7  0.1810  0.72  1.00  2.60  156.0  15.0  289.6  2.0  0  0.00  69.  1004.  2 NAD-SFC NoSubs
 9 10 20 293 21  -28.5  0.265 -9.000 -9.000 -999.  328.    58.7  0.1810  0.72  1.00  3.10  156.0  15.0  288.5  2.0  0  0.00  74.  1004.  2 NAD-SFC NoSubs
 9 10 20 293 22  -29.2  0.271 -9.000 -9.000 -999.  339.    61.2  0.1970  0.72  1.00  3.10  149.0  15.0  287.8  2.0  0  0.00  76.  1004.  2 NAD-SFC NoSubs
 9 10 20 293 23  -21.7  0.225 -9.000 -9.000 -999.  256.    46.9  0.1970  0.72  1.00  2.60  145.0  15.0  287.2  2.0  0  0.00  77.  1004.  2 NAD-SFC NoSubs
 9 10 20 293 24  -21.7  0.225 -9.000 -9.000 -999.  256.    46.9  0.1970  0.72  1.00  2.60  127.0  15.0  286.8  2.0  0  0.00  79.  1004.  2 NAD-SFC NoSubs
 9 10 21 294  1  -13.9  0.178 -9.000 -9.000 -999.  181.    36.5  0.1970  0.72  1.00  2.10  136.0  15.0  286.2  2.0  0  0.00  81.  1004.  2 NAD-SFC NoSubs
 9 10 21 294  2   -1.5  0.081 -9.000 -9.000 -999.   60.    31.4  0.1970  0.72  1.00  0.50  138.0  15.0  285.8  2.0  0  0.00  83.  1004.  2 NAD-SFC NoSubs
 9 10 21 294  3   -1.5  0.082 -9.000 -9.000 -999.   56.    31.6  0.2160  0.72  1.00  0.50  280.0  15.0  285.4  2.0  0  0.00  85.  1004.  2 NAD-SFC NoSubs
 9 10 21 294  4   -7.3  0.129 -9.000 -9.000 -999.  111.    26.2  0.2160  0.72  1.00  1.50  289.0  15.0  285.2  2.0  0  0.00  87.  1004.  2 NAD-SFC NoSubs
 9 10 21 294  5   -8.1  0.137 -9.000 -9.000 -999.  122.    28.4  0.2720  0.72  1.00  1.50  301.0  15.0  285.0  2.0  0  0.00  88.  1005.  2 NAD-SFC NoSubs
 9 10 21 294  6   -7.3  0.129 -9.000 -9.000 -999.  111.    26.2  0.2160  0.72  1.00  1.50  293.0  15.0  284.9  2.0  0  0.00  89.  1006.  2 NAD-SFC NoSubs
 9 10 21 294  7   -6.8  0.129 -9.000 -9.000 -999.  111.    28.1  0.2160  0.72  0.60  1.50  285.0  15.0  284.9  2.0  0  0.00  88.  1006.  2 NAD-SFC NoSubs
 9 10 21 294  8   24.8  0.130  0.398  0.007   90.  113.    -8.0  0.1750  0.72  0.32  1.00  261.0  15.0  284.9  2.0  0  0.00  87.  1006.  2 NAD-SFC NoSubs
 9 10 21 294  9   75.1  0.212  0.827  0.007  270.  234.   -11.4  0.2720  0.72  0.24  1.50  322.0  15.0  286.9  2.0  0  0.00  75.  1006.  2 NAD-SFC NoSubs
 9 10 21 294 10  114.5  0.113  1.133  0.008  457.   95.    -1.1  0.2720  0.72  0.21  0.50  321.0  15.0  288.8  2.0  0  0.00  64.  1006.  2 NAD-SFC NoSubs
 9 10 21 294 11  140.0  0.110  1.359  0.011  643.   88.    -1.0  0.2160  0.72  0.20  0.50  289.0  15.0  290.1  2.0  0  0.00  58.  1006.  2 NAD-SFC NoSubs
 9 10 21 294 12  150.8  0.112  1.459  0.011  739.   89.    -1.0  0.2160  0.72  0.20  0.50  286.0  15.0  291.2  2.0  0  0.00  53.  1005.  2 NAD-SFC NoSubs
 9 10 21 294 13  146.8  0.168  1.496  0.012  817.  166.    -2.9  0.2160  0.72  0.20  1.00  296.0  15.0  292.4  2.0  0  0.00  49.  1004.  2 NAD-SFC NoSubs
 9 10 21 294 14  127.8  0.225  1.464  0.012  880.  256.    -7.9  0.2720  0.72  0.20  1.50  305.0  15.0  293.1  2.0  0  0.00  47.  1003.  2 NAD-SFC NoSubs
 9 10 21 294 15   94.5  0.217  1.346  0.011  924.  243.    -9.7  0.2720  0.72  0.22  1.50  306.0  15.0  293.6  2.0  0  0.00  45.  1003.  2 NAD-SFC NoSubs
 9 10 21 294 16   48.5  0.257  1.086  0.011  945.  313.   -31.3  0.2720  0.72  0.28  2.10  327.0  15.0  293.8  2.0  0  0.00  45.  1003.  2 NAD-SFC NoSubs
 9 10 21 294 17   -2.5  0.148 -9.000 -9.000 -999.  142.   117.5  0.2930  0.72  0.45  1.50  356.0  15.0  293.5  2.0  0  0.00  50.  1002.  2 NAD-SFC NoSubs
 9 10 21 294 18   -1.6  0.082 -9.000 -9.000 -999.   58.    31.7  0.2470  0.72  1.00  0.50   46.0  15.0  292.6  2.0  0  0.00  54.  1003.  2 NAD-SFC NoSubs
 9 10 21 294 19   -1.4  0.079 -9.000 -9.000 -999.   54.    31.0  0.1810  0.72  1.00  0.50  165.0  15.0  291.2  2.0  0  0.00  60.  1003.  2 NAD-SFC NoSubs
 9 10 21 294 20   -3.4  0.094 -9.000 -9.000 -999.   69.    21.8  0.1810  0.72  1.00  1.00  162.0  15.0  290.1  2.0  0  0.00  66.  1003.  2 NAD-SFC NoSubs
 9 10 21 294 21  -13.3  0.174 -9.000 -9.000 -999.  175.    35.6  0.1810  0.72  1.00  2.10  152.0  15.0  289.2  2.0  0  0.00  70.  1003.  2 NAD-SFC NoSubs
 9 10 21 294 22  -20.8  0.220 -9.000 -9.000 -999.  247.    45.6  0.1810  0.72  1.00  2.60  150.0  15.0  288.5  2.0  0  0.00  73.  1003.  2 NAD-SFC NoSubs
 9 10 21 294 23  -13.9  0.178 -9.000 -9.000 -999.  181.    36.6  0.1970  0.72  1.00  2.10  138.0  15.0  287.9  2.0  0  0.00  75.  1003.  2 NAD-SFC NoSubs
 9 10 21 294 24   -7.0  0.126 -9.000 -9.000 -999.  108.    25.6  0.1970  0.72  1.00  1.50  123.0  15.0  287.2  2.0  0  0.00  77.  1003.  2 NAD-SFC NoSubs
 9 10 22 295  1   -3.6  0.097 -9.000 -9.000 -999.   72.    22.4  0.2130  0.72  1.00  1.00  113.0  15.0  286.8  2.0  0  0.00  79.  1003.  2 NAD-SFC NoSubs
 9 10 22 295  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  286.2  2.0  0  0.00  82.  1003.  2 NAD-SFC NoSubs
 9 10 22 295  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  285.8  2.0  0  0.00  84.  1004.  2 NAD-SFC NoSubs
 9 10 22 295  4   -1.5  0.081 -9.000 -9.000 -999.   55.    31.4  0.1950  0.72  1.00  0.50  231.0  15.0  285.2  2.0  0  0.00  85.  1004.  2 NAD-SFC NoSubs
 9 10 22 295  5   -1.5  0.080 -9.000 -9.000 -999.   54.    31.2  0.1750  0.72  1.00  0.50  254.0  15.0  285.1  2.0  0  0.00  86.  1004.  2 NAD-SFC NoSubs
 9 10 22 295  6   -3.4  0.094 -9.000 -9.000 -999.   69.    21.7  0.1750  0.72  1.00  1.00  257.0  15.0  284.9  2.0  0  0.00  88.  1005.  2 NAD-SFC NoSubs
 9 10 22 295  7   -3.1  0.091 -9.000 -9.000 -999.   66.    21.5  0.1750  0.72  0.61  1.00  256.0  15.0  284.8  2.0  0  0.00  91.  1005.  2 NAD-SFC NoSubs
 9 10 22 295  8   23.9  0.130  0.366  0.008   73.  112.    -8.2  0.1750  0.72  0.32  1.00  269.0  15.0  285.2  2.0  0  0.00  90.  1005.  2 NAD-SFC NoSubs
 9 10 22 295  9   74.2  0.101  0.797  0.009  244.   77.    -1.3  0.2160  0.72  0.24  0.50  291.0  15.0  287.5  2.0  0  0.00  84.  1005.  2 NAD-SFC NoSubs
 9 10 22 295 10  113.6 -9.000 -9.000 -9.000  444. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  289.6  2.0  0  0.00  75.  1005.  2 NAD-SFC NoSubs
 9 10 22 295 11  139.2 -9.000 -9.000 -9.000  585. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  291.2  2.0  0  0.00  66.  1005.  2 NAD-SFC NoSubs
 9 10 22 295 12  150.1  0.111  1.423  0.012  687.   89.    -1.0  0.2160  0.72  0.20  0.50  299.0  15.0  292.8  2.0  0  0.00  61.  1004.  2 NAD-SFC NoSubs
 9 10 22 295 13  146.1  0.117  1.452  0.012  750.   96.    -1.0  0.2720  0.72  0.20  0.50  321.0  15.0  294.0  2.0  0  0.00  57.  1003.  2 NAD-SFC NoSubs
 9 10 22 295 14  127.2  0.228  1.417  0.011  801.  262.    -8.4  0.2930  0.72  0.20  1.50  345.0  15.0  294.9  2.0  0  0.00  53.  1002.  2 NAD-SFC NoSubs
 9 10 22 295 15   93.9  0.278  1.300  0.011  836.  352.   -20.4  0.2930  0.72  0.22  2.10  355.0  15.0  295.4  2.0  0  0.00  51.  1002.  2 NAD-SFC NoSubs
 9 10 22 295 16   48.3  0.353  1.049  0.011  855.  503.   -81.3  0.2930  0.72  0.28  3.10  353.0  15.0  296.2  2.0  0  0.00  51.  1001.  2 NAD-SFC NoSubs
 9 10 22 295 17   -5.5  0.315 -9.000 -9.000 -999.  425.   506.0  0.2930  0.72  0.46  3.10  352.0  15.0  295.8  2.0  0  0.00  57.  1001.  2 NAD-SFC NoSubs
 9 10 22 295 18  -25.7  0.252 -9.000 -9.000 -999.  305.    55.5  0.2940  0.72  1.00  2.60    4.0  15.0  294.6  2.0  0  0.00  61.  1002.  2 NAD-SFC NoSubs
 9 10 22 295 19   -4.0  0.102 -9.000 -9.000 -999.   99.    23.6  0.2930  0.72  1.00  1.00  344.0  15.0  293.5  2.0  0  0.00  64.  1002.  2 NAD-SFC NoSubs
 9 10 22 295 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  292.2  2.0  0  0.00  70.  1002.  2 NAD-SFC NoSubs
 9 10 22 295 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  291.2  2.0  0  0.00  75.  1003.  2 NAD-SFC NoSubs
 9 10 22 295 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  290.2  2.0  0  0.00  80.  1003.  2 NAD-SFC NoSubs
 9 10 22 295 23   -1.5  0.081 -9.000 -9.000 -999.   55.    31.4  0.2090  0.72  1.00  0.50   87.0  15.0  289.6  2.0  0  0.00  84.  1003.  2 NAD-SFC NoSubs
 9 10 22 295 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  288.9  2.0  0  0.00  87.  1003.  2 NAD-SFC NoSubs
 9 10 23 296  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  288.5  2.0  0  0.00  89.  1003.  2 NAD-SFC NoSubs
 9 10 23 296  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  288.1  2.0  0  0.00  89.  1003.  2 NAD-SFC NoSubs
 9 10 23 296  3   -1.6  0.084 -9.000 -9.000 -999.   58.    32.0  0.2720  0.72  1.00  0.50  328.0  15.0  287.8  2.0  0  0.00  89.  1003.  2 NAD-SFC NoSubs
 9 10 23 296  4   -4.0  0.101 -9.000 -9.000 -999.   77.    23.3  0.2720  0.72  1.00  1.00  317.0  15.0  287.5  2.0  0  0.00  89.  1003.  2 NAD-SFC NoSubs
 9 10 23 296  5   -8.0  0.137 -9.000 -9.000 -999.  122.    28.5  0.2720  0.72  1.00  1.50  305.0  15.0  287.2  2.0  0  0.00  88.  1003.  2 NAD-SFC NoSubs
 9 10 23 296  6  -14.4  0.183 -9.000 -9.000 -999.  188.    37.8  0.2160  0.72  1.00  2.10  283.0  15.0  287.1  2.0  0  0.00  88.  1004.  2 NAD-SFC NoSubs
 9 10 23 296  7  -21.4  0.231 -9.000 -9.000 -999.  267.    51.8  0.2160  0.72  0.62  2.60  282.0  15.0  286.9  2.0  0  0.00  88.  1004.  2 NAD-SFC NoSubs
 9 10 23 296  8   23.5  0.231  0.355  0.009   68.  266.   -46.9  0.2160  0.72  0.33  2.10  283.0  15.0  287.5  2.0  0  0.00  85.  1005.  2 NAD-SFC NoSubs
 9 10 23 296  9   73.8  0.267  0.726  0.010  186.  331.   -23.1  0.2720  0.72  0.24  2.10  302.0  15.0  289.9  2.0  0  0.00  74.  1005.  2 NAD-SFC NoSubs
 9 10 23 296 10  113.2  0.163  1.062  0.010  379.  163.    -3.4  0.2160  0.72  0.21  1.00  286.0  15.0  291.8  2.0  0  0.00  65.  1005.  2 NAD-SFC NoSubs
 9 10 23 296 11  138.9  0.110  1.260  0.010  517.   88.    -1.0  0.2160  0.72  0.20  0.50  283.0  15.0  293.8  2.0  0  0.00  57.  1004.  2 NAD-SFC NoSubs
 9 10 23 296 12  149.9  0.111  1.382  0.009  632.   89.    -1.0  0.2160  0.72  0.20  0.50  276.0  15.0  295.2  2.0  0  0.00  52.  1004.  2 NAD-SFC NoSubs
 9 10 23 296 13  145.8  0.111  1.434  0.009  724.   89.    -1.0  0.2160  0.72  0.20  0.50  296.0  15.0  296.2  2.0  0  0.00  49.  1003.  2 NAD-SFC NoSubs
 9 10 23 296 14  126.9  0.174  1.413  0.008  796.  174.    -3.7  0.2720  0.72  0.21  1.00  310.0  15.0  297.1  2.0  0  0.00  46.  1003.  2 NAD-SFC NoSubs
 9 10 23 296 15   93.6  0.221  1.303  0.008  845.  249.   -10.3  0.2930  0.72  0.22  1.50  335.0  15.0  297.5  2.0  0  0.00  44.  1002.  2 NAD-SFC NoSubs
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 9 10 23 296 16   47.6  0.261  1.049  0.008  868.  320.    -33.3  0.2930  0.72  0.28  2.10  341.0  15.0  297.4  2.0  0  0.00  48.  1002.  2 NAD-SFC NoSubs
 9 10 23 296 17   10.9 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.46  0.00    0.0  15.0  296.6  2.0  0  0.00  52.  1002.  2 NAD-SFC NoSubs
 9 10 23 296 18  -25.7  0.252 -9.000 -9.000 -999.  303.     55.6  0.2940  0.72  1.00  2.60   21.0  15.0  295.4  2.0  0  0.00  56.  1002.  2 NAD-SFC NoSubs
 9 10 23 296 19   -3.8  0.099 -9.000 -9.000 -999.   96.     22.9  0.2470  0.72  1.00  1.00   38.0  15.0  294.2  2.0  0  0.00  61.  1002.  2 NAD-SFC NoSubs
 9 10 23 296 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  293.1  2.0  0  0.00  66.  1002.  2 NAD-SFC NoSubs
 9 10 23 296 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  292.2  2.0  0  0.00  71.  1002.  2 NAD-SFC NoSubs
 9 10 23 296 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  291.8  2.0  0  0.00  74.  1002.  2 NAD-SFC NoSubs
 9 10 23 296 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  291.4  2.0  0  0.00  77.  1002.  2 NAD-SFC NoSubs
 9 10 23 296 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  291.0  2.0  0  0.00  78.  1002.  2 NAD-SFC NoSubs
 9 10 24 297  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  290.8  2.0  0  0.00  79.  1002.  2 NAD-SFC NoSubs
 9 10 24 297  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  290.5  2.0  0  0.00  79.  1002.  2 NAD-SFC NoSubs
 9 10 24 297  3   -1.6  0.083 -9.000 -9.000 -999.   58.     31.9  0.2720  0.72  1.00  0.50  300.0  15.0  290.4  2.0  0  0.00  78.  1002.  2 NAD-SFC NoSubs
 9 10 24 297  4   -3.9  0.101 -9.000 -9.000 -999.   77.     23.3  0.2720  0.72  1.00  1.00  302.0  15.0  290.2  2.0  0  0.00  78.  1002.  2 NAD-SFC NoSubs
 9 10 24 297  5   -8.0  0.137 -9.000 -9.000 -999.  122.     28.6  0.2720  0.72  1.00  1.50  305.0  15.0  290.0  2.0  0  0.00  79.  1002.  2 NAD-SFC NoSubs
 9 10 24 297  6   -8.0  0.137 -9.000 -9.000 -999.  122.     28.6  0.2720  0.72  1.00  1.50  300.0  15.0  289.6  2.0  0  0.00  81.  1003.  2 NAD-SFC NoSubs
 9 10 24 297  7   -3.4  0.094 -9.000 -9.000 -999.   70.     22.4  0.2160  0.72  0.63  1.00  293.0  15.0  289.0  2.0  0  0.00  85.  1003.  2 NAD-SFC NoSubs
 9 10 24 297  8   23.0  0.135  0.399  0.009   98.  119.     -9.6  0.2160  0.72  0.33  1.00  292.0  15.0  289.2  2.0  0  0.00  85.  1003.  2 NAD-SFC NoSubs
 9 10 24 297  9   73.0  0.106  0.822  0.009  272.   83.     -1.5  0.2720  0.72  0.24  0.50  319.0  15.0  291.0  2.0  0  0.00  78.  1003.  2 NAD-SFC NoSubs
 9 10 24 297 10  112.4 -9.000 -9.000 -9.000  444. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  292.8  2.0  0  0.00  69.  1003.  2 NAD-SFC NoSubs
 9 10 24 297 11  137.9 -9.000 -9.000 -9.000  573. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  294.1  2.0  0  0.00  62.  1003.  2 NAD-SFC NoSubs
 9 10 24 297 12  148.8  0.111  1.413  0.011  679.   89.     -1.0  0.2160  0.72  0.20  0.50  290.0  15.0  295.4  2.0  0  0.00  57.  1002.  2 NAD-SFC NoSubs
 9 10 24 297 13  144.7  0.228  1.447  0.010  749.  261.     -7.3  0.2720  0.72  0.20  1.50  308.0  15.0  296.5  2.0  0  0.00  52.  1001.  2 NAD-SFC NoSubs
 9 10 24 297 14  125.6  0.281  1.415  0.009  805.  358.    -15.8  0.2720  0.72  0.21  2.10  321.0  15.0  297.1  2.0  0  0.00  51.  1001.  2 NAD-SFC NoSubs
 9 10 24 297 15   92.2  0.318  1.297  0.009  844.  431.    -31.2  0.2720  0.72  0.22  2.60  326.0  15.0  297.4  2.0  0  0.00  51.  1000.  2 NAD-SFC NoSubs
 9 10 24 297 16   46.2  0.306  1.038  0.009  863.  407.    -55.4  0.2930  0.72  0.28  2.60  342.0  15.0  297.2  2.0  0  0.00  57.  1000.  2 NAD-SFC NoSubs
 9 10 24 297 17   -6.7  0.260 -9.000 -9.000 -999.  319.    233.9  0.2930  0.72  0.47  2.60  347.0  15.0  296.8  2.0  0  0.00  61.  1000.  2 NAD-SFC NoSubs
 9 10 24 297 18   -8.2  0.140 -9.000 -9.000 -999.  134.     29.7  0.2930  0.72  1.00  1.50  354.0  15.0  295.9  2.0  0  0.00  65.  1000.  2 NAD-SFC NoSubs
 9 10 24 297 19   -1.4  0.078 -9.000 -9.000 -999.   53.     30.5  0.1750  0.72  1.00  0.50  243.0  15.0  294.9  2.0  0  0.00  69.  1000.  3 NAD-SFC NoSubs
 9 10 24 297 20   -1.4  0.078 -9.000 -9.000 -999.   52.     30.6  0.1750  0.72  1.00  0.50  244.0  15.0  293.9  2.0  0  0.00  74.  1001.  3 NAD-SFC NoSubs
 9 10 24 297 21   -3.3  0.093 -9.000 -9.000 -999.   68.     21.6  0.1750  0.72  1.00  1.00  265.0  15.0  293.0  2.0  0  0.00  79.  1001.  3 NAD-SFC NoSubs
 9 10 24 297 22   -3.5  0.096 -9.000 -9.000 -999.   71.     22.4  0.2160  0.72  1.00  1.00  271.0  15.0  292.2  2.0  0  0.00  82.  1001.  3 NAD-SFC NoSubs
 9 10 24 297 23   -3.5  0.096 -9.000 -9.000 -999.   71.     22.4  0.2160  0.72  1.00  1.00  295.0  15.0  291.6  2.0  0  0.00  83.  1001.  3 NAD-SFC NoSubs
 9 10 24 297 24   -3.5  0.096 -9.000 -9.000 -999.   71.     22.4  0.2160  0.72  1.00  1.00  294.0  15.0  291.0  2.0  0  0.00  83.  1001.  3 NAD-SFC NoSubs
 9 10 25 298  1   -3.6  0.097 -9.000 -9.000 -999.   72.     22.4  0.2160  0.72  1.00  1.00  288.0  15.0  290.6  2.0  0  0.00  82.  1001.  2 NAD-SFC NoSubs
 9 10 25 298  2   -6.6  0.123 -9.000 -9.000 -999.  103.     24.7  0.1750  0.72  1.00  1.50  267.0  15.0  290.1  2.0  0  0.00  81.  1001.  2 NAD-SFC NoSubs
 9 10 25 298  3  -20.5  0.218 -9.000 -9.000 -999.  244.     45.2  0.1750  0.72  1.00  2.60  263.0  15.0  289.5  2.0  0  0.00  79.  1002.  2 NAD-SFC NoSubs
 9 10 25 298  4  -34.8  0.325 -9.000 -9.000 -999.  445.     88.2  0.2160  0.72  1.00  3.60  272.0  15.0  288.8  2.0  0  0.00  78.  1002.  2 NAD-SFC NoSubs
 9 10 25 298  5  -34.9  0.325 -9.000 -9.000 -999.  445.     87.9  0.2160  0.72  1.00  3.60  285.0  15.0  287.8  2.0  0  0.00  76.  1002.  2 NAD-SFC NoSubs
 9 10 25 298  6  -35.0  0.325 -9.000 -9.000 -999.  445.     87.7  0.2160  0.72  1.00  3.60  284.0  15.0  287.1  2.0  0  0.00  74.  1003.  2 NAD-SFC NoSubs
 9 10 25 298  7  -27.6  0.278 -9.000 -9.000 -999.  354.     70.1  0.2160  0.72  0.64  3.10  273.0  15.0  286.6  2.0  0  0.00  73.  1004.  2 NAD-SFC NoSubs
 9 10 25 298  8   22.9  0.273  0.416  0.009  112.  342.    -79.6  0.2160  0.72  0.33  2.60  293.0  15.0  287.1  2.0  0  0.00  69.  1004.  3 NAD-SFC NoSubs
 9 10 25 298  9   71.2  0.266  0.807  0.009  264.  329.    -23.6  0.2720  0.72  0.24  2.10  305.0  15.0  288.9  2.0  0  0.00  61.  1005.  2 NAD-SFC NoSubs
 9 10 25 298 10  110.4  0.162  1.080  0.008  409.  162.     -3.5  0.2160  0.72  0.21  1.00  279.0  15.0  290.5  2.0  0  0.00  56.  1005.  2 NAD-SFC NoSubs
 9 10 25 298 11  136.0  0.215  1.282  0.009  556.  240.     -6.6  0.2160  0.72  0.20  1.50  271.0  15.0  292.5  2.0  0  0.00  50.  1005.  2 NAD-SFC NoSubs
 9 10 25 298 12  146.8  0.217  1.406  0.010  679.  243.     -6.3  0.2160  0.72  0.20  1.50  279.0  15.0  293.8  2.0  0  0.00  47.  1004.  2 NAD-SFC NoSubs
 9 10 25 298 13  142.7  0.271  1.456  0.010  775.  339.    -12.5  0.2160  0.72  0.20  2.10  298.0  15.0  294.9  2.0  0  0.00  45.  1003.  2 NAD-SFC NoSubs
 9 10 25 298 14  123.7  0.327  1.432  0.010  849.  448.    -25.2  0.2720  0.72  0.21  2.60  325.0  15.0  295.8  2.0  0  0.00  44.  1003.  2 NAD-SFC NoSubs
 9 10 25 298 15   90.4  0.323  1.315  0.010  900.  440.    -33.3  0.2930  0.72  0.23  2.60  335.0  15.0  296.2  2.0  0  0.00  44.  1003.  2 NAD-SFC NoSubs
 9 10 25 298 16   44.5  0.305  1.047  0.010  924.  405.    -57.2  0.2930  0.72  0.29  2.60  335.0  15.0  296.2  2.0  0  0.00  49.  1003.  2 NAD-SFC NoSubs
 9 10 25 298 17   -8.5  0.259 -9.000 -9.000 -999.  317.    182.8  0.2930  0.72  0.48  2.60  336.0  15.0  295.8  2.0  0  0.00  53.  1003.  2 NAD-SFC NoSubs
 9 10 25 298 18  -16.5  0.200 -9.000 -9.000 -999.  215.     43.3  0.2930  0.72  1.00  2.10  341.0  15.0  294.8  2.0  0  0.00  57.  1004.  2 NAD-SFC NoSubs
 9 10 25 298 19   -1.6  0.083 -9.000 -9.000 -999.   67.     31.8  0.2720  0.72  1.00  0.50  318.0  15.0  293.5  2.0  0  0.00  61.  1004.  2 NAD-SFC NoSubs
 9 10 25 298 20   -1.5  0.080 -9.000 -9.000 -999.   54.     31.1  0.1900  0.72  1.00  0.50  199.0  15.0  292.2  2.0  0  0.00  67.  1004.  2 NAD-SFC NoSubs
 9 10 25 298 21   -3.5  0.095 -9.000 -9.000 -999.   70.     22.0  0.1900  0.72  1.00  1.00  206.0  15.0  291.2  2.0  0  0.00  72.  1005.  2 NAD-SFC NoSubs
 9 10 25 298 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  290.4  2.0  0  0.00  76.  1005.  2 NAD-SFC NoSubs
 9 10 25 298 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  289.6  2.0  0  0.00  80.  1005.  2 NAD-SFC NoSubs
 9 10 25 298 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  289.0  2.0  0  0.00  82.  1005.  2 NAD-SFC NoSubs
 9 10 26 299  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  288.5  2.0  0  0.00  84.  1005.  2 NAD-SFC NoSubs
 9 10 26 299  2   -1.7  0.084 -9.000 -9.000 -999.   59.     32.1  0.2940  0.72  1.00  0.50   29.0  15.0  288.2  2.0  0  0.00  83.  1005.  2 NAD-SFC NoSubs
 9 10 26 299  3   -1.7  0.084 -9.000 -9.000 -999.   59.     32.1  0.2930  0.72  1.00  0.50  336.0  15.0  288.0  2.0  0  0.00  82.  1005.  2 NAD-SFC NoSubs
 9 10 26 299  4   -4.0  0.101 -9.000 -9.000 -999.   77.     23.3  0.2720  0.72  1.00  1.00  327.0  15.0  287.8  2.0  0  0.00  80.  1006.  2 NAD-SFC NoSubs
 9 10 26 299  5   -8.1  0.137 -9.000 -9.000 -999.  122.     28.5  0.2720  0.72  1.00  1.50  320.0  15.0  287.8  2.0  0  0.00  77.  1006.  2 NAD-SFC NoSubs
 9 10 26 299  6   -8.1  0.137 -9.000 -9.000 -999.  122.     28.5  0.2720  0.72  1.00  1.50  319.0  15.0  287.6  2.0  0  0.00  74.  1006.  2 NAD-SFC NoSubs
 9 10 26 299  7   -3.8  0.099 -9.000 -9.000 -999.   75.     23.3  0.2720  0.72  0.64  1.00  306.0  15.0  287.2  2.0  0  0.00  73.  1006.  2 NAD-SFC NoSubs
 9 10 26 299  8   20.4  0.133  0.333  0.011   65.  116.    -10.3  0.2160  0.72  0.34  1.00  290.0  15.0  287.4  2.0  0  0.00  71.  1006.  2 NAD-SFC NoSubs
 9 10 26 299  9   70.2  0.265  0.713  0.009  185.  328.    -23.9  0.2720  0.72  0.24  2.10  307.0  15.0  289.6  2.0  0  0.00  58.  1007.  2 NAD-SFC NoSubs
 9 10 26 299 10  109.5  0.210  1.038  0.009  366.  233.     -7.6  0.2160  0.72  0.21  1.50  296.0  15.0  291.4  2.0  0  0.00  53.  1006.  2 NAD-SFC NoSubs
 9 10 26 299 11  135.1  0.167  1.232  0.008  497.  164.     -3.1  0.2160  0.72  0.20  1.00  299.0  15.0  293.2  2.0  0  0.00  47.  1006.  2 NAD-SFC NoSubs
 9 10 26 299 12  146.1  0.177  1.351  0.007  606.  179.     -3.4  0.2720  0.72  0.20  1.00  309.0  15.0  295.0  2.0  0  0.00  41.  1005.  2 NAD-SFC NoSubs
 9 10 26 299 13  141.9  0.179  1.413  0.007  713.  182.     -3.6  0.2930  0.72  0.20  1.00  330.0  15.0  296.0  2.0  0  0.00  39.  1004.  2 NAD-SFC NoSubs
 9 10 26 299 14  122.9  0.176  1.406  0.007  810.  177.     -4.0  0.2930  0.72  0.21  1.00  345.0  15.0  296.8  2.0  0  0.00  37.  1003.  2 NAD-SFC NoSubs
 9 10 26 299 15   89.5  0.220  1.298  0.007  874.  247.    -10.6  0.2930  0.72  0.23  1.50  352.0  15.0  297.0  2.0  0  0.00  37.  1002.  2 NAD-SFC NoSubs
 9 10 26 299 16   43.4  0.203  1.031  0.007  902.  220.    -17.3  0.2930  0.72  0.29  1.50  359.0  15.0  296.6  2.0  0  0.00  42.  1002.  2 NAD-SFC NoSubs
 9 10 26 299 17   20.9 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.48  0.00    0.0  15.0  295.8  2.0  0  0.00  46.  1001.  2 NAD-SFC NoSubs
 9 10 26 299 18   -1.6  0.084 -9.000 -9.000 -999.   58.     31.9  0.2940  0.72  1.00  0.50   23.0  15.0  294.5  2.0  0  0.00  52.  1001.  2 NAD-SFC NoSubs
 9 10 26 299 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  293.4  2.0  0  0.00  57.  1001.  2 NAD-SFC NoSubs
 9 10 26 299 20   -1.6  0.083 -9.000 -9.000 -999.   58.     31.8  0.2720  0.72  1.00  0.50  310.0  15.0  292.4  2.0  0  0.00  62.  1001.  2 NAD-SFC NoSubs
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 9 10 26 299 21  -15.9  0.195 -9.000 -9.000 -999.  207.    41.8  0.2720  0.72  1.00   2.10  329.0  15.0  291.8   2.0    0   0.00   65.  1001.    2 NAD-SFC NoSubs
 9 10 26 299 22  -48.6  0.457 -9.000 -9.000 -999.  742.   175.5  0.2930  0.72  1.00   4.60  345.0  15.0  290.4   2.0    0   0.00   67.  1001.    2 NAD-SFC NoSubs
 9 10 26 299 23  -48.8  0.457 -9.000 -9.000 -999.  742.   174.7  0.2930  0.72  1.00   4.60  332.0  15.0  289.0   2.0    0   0.00   70.  1001.    2 NAD-SFC NoSubs
 9 10 26 299 24  -49.0  0.457 -9.000 -9.000 -999.  742.   174.0  0.2930  0.72  1.00   4.60  335.0  15.0  287.9   2.0    0   0.00   83.  1001.    2 NAD-SFC NoSubs
 9 10 27 300  1  -42.6  0.397 -9.000 -9.000 -999.  603.   130.9  0.2720  0.72  1.00   4.10  309.0  15.0  287.5   2.0    0   0.00   94.  1001.    2 NAD-SFC NoSubs
 9 10 27 300  2  -36.3  0.347 -9.000 -9.000 -999.  492.   102.5  0.2720  0.72  1.00   3.60  309.0  15.0  287.4   2.0    0   0.00   98.  1002.    3 NAD-SFC NoSubs
 9 10 27 300  3  -24.7  0.246 -9.000 -9.000 -999.  298.    53.8  0.2720  0.72  1.00   2.60  308.0  15.0  287.2   2.0    0   0.00  100.  1002.    3 NAD-SFC NoSubs
 9 10 27 300  4  -24.7  0.246 -9.000 -9.000 -999.  293.    53.8  0.2720  0.72  1.00   2.60  317.0  15.0  286.9   2.0    0   0.00   99.  1002.    3 NAD-SFC NoSubs
 9 10 27 300  5  -23.8  0.247 -9.000 -9.000 -999.  294.    56.5  0.2720  0.72  1.00   2.60  324.0  15.0  286.4   2.0    0   0.00   97.  1002.    5 NAD-SFC NoSubs
 9 10 27 300  6  -22.4  0.299 -9.000 -9.000 -999.  392.   106.3  0.2720  0.72  1.00   3.10  318.0  15.0  285.8   2.0    0   0.00   93.  1002.    8 NAD-SFC NoSubs
 9 10 27 300  7  -15.1  0.196 -9.000 -9.000 -999.  214.    44.7  0.2720  0.72  0.65   2.10  315.0  15.0  285.4   2.0    0   0.00   88.  1003.    4 NAD-SFC NoSubs
 9 10 27 300  8   20.4  0.529  0.415  0.006  125.  924.  -649.2  0.2930  0.72  0.34   5.10  332.0  15.0  285.5   2.0    0   0.00   76.  1003.    3 NAD-SFC NoSubs
 9 10 27 300  9   68.2  0.799  0.939  0.007  434. 1711.  -668.3  0.2930  0.72  0.24   7.70  338.0  15.0  286.6   2.0    0   0.00   60.  1003.    2 NAD-SFC NoSubs
 9 10 27 300 10  107.1  0.855  1.213  0.007  596. 1892.  -521.8  0.2930  0.72  0.21   8.20  334.0  15.0  287.8   2.0    0   0.00   52.  1003.    2 NAD-SFC NoSubs
 9 10 27 300 11  132.2  0.859  1.408  0.007  755. 1910.  -428.6  0.2930  0.72  0.20   8.20  334.0  15.0  288.8   2.0    0   0.00   44.  1003.    2 NAD-SFC NoSubs
 9 10 27 300 12  143.1  0.951  1.532  0.008  900. 2215.  -536.3  0.2720  0.72  0.20   9.30  327.0  15.0  289.2   2.0    0   0.00   41.  1002.    3 NAD-SFC NoSubs
 9 10 27 300 13  138.7  0.967  1.583  0.008 1023. 2280.  -582.7  0.2930  0.72  0.20   9.30  335.0  15.0  289.9   2.0    0   0.00   36.  1002.    3 NAD-SFC NoSubs
 9 10 27 300 14  119.0  1.063  1.550  0.008 1120. 2619.  -901.4  0.2930  0.72  0.21  10.30  335.0  15.0  290.2   2.0    0   0.00   34.  1001.    2 NAD-SFC NoSubs
 9 10 27 300 15   85.4  0.960  1.414  0.008 1184. 2282.  -923.6  0.2930  0.72  0.23   9.30  334.0  15.0  290.1   2.0    0   0.00   37.  1001.    2 NAD-SFC NoSubs
 9 10 27 300 16   39.2  0.729  1.100  0.008 1210. 1574.  -882.7  0.2720  0.72  0.29   7.20  325.0  15.0  289.1   2.0    0   0.00   44.  1001.    2 NAD-SFC NoSubs
 9 10 27 300 17  -35.6  0.671 -9.000 -9.000 -999. 1332.   757.8  0.2720  0.72  0.49   6.70  321.0  15.0  287.0   2.0    0   0.00   51.  1000.    2 NAD-SFC NoSubs
 9 10 27 300 18  -64.0  1.115 -9.000 -9.000 -999. 2821.  1931.2  0.2930  0.72  1.00  10.80  335.0  15.0  285.4   2.0    0   0.00   50.  1001.    2 NAD-SFC NoSubs
 9 10 27 300 19  -64.0  1.039 -9.000 -9.000 -999. 2561.  1565.1  0.2720  0.72  1.00  10.30  329.0  15.0  284.8   2.0    0   0.00   51.  1002.    2 NAD-SFC NoSubs
 9 10 27 300 20  -64.0  0.835 -9.000 -9.000 -999. 1902.   815.0  0.2930  0.72  1.00   8.20  339.0  15.0  284.0   2.0    0   0.00   54.  1003.    2 NAD-SFC NoSubs
 9 10 27 300 21  -64.0  0.725 -9.000 -9.000 -999. 1509.   533.4  0.2930  0.72  1.00   7.20  339.0  15.0  283.2   2.0    0   0.00   56.  1004.    2 NAD-SFC NoSubs
 9 10 27 300 22  -64.0  0.611 -9.000 -9.000 -999. 1165.   318.7  0.2930  0.72  1.00   6.20  339.0  15.0  282.8   2.0    0   0.00   58.  1004.    2 NAD-SFC NoSubs
 9 10 27 300 23  -62.7  0.571 -9.000 -9.000 -999. 1040.   266.1  0.2930  0.72  1.00   5.70  343.0  15.0  282.0   2.0    0   0.00   59.  1004.    2 NAD-SFC NoSubs
 9 10 27 300 24  -62.9  0.571 -9.000 -9.000 -999. 1037.   265.5  0.2930  0.72  1.00   5.70  330.0  15.0  281.4   2.0    0   0.00   60.  1004.    2 NAD-SFC NoSubs
 9 10 28 301  1  -56.1  0.509 -9.000 -9.000 -999.  876.   210.2  0.2930  0.72  1.00   5.10  335.0  15.0  280.9   2.0    0   0.00   61.  1005.    2 NAD-SFC NoSubs
 9 10 28 301  2  -55.0  0.498 -9.000 -9.000 -999.  843.   200.9  0.2720  0.72  1.00   5.10  329.0  15.0  280.4   2.0    0   0.00   63.  1005.    2 NAD-SFC NoSubs
 9 10 28 301  3  -55.1  0.498 -9.000 -9.000 -999.  843.   200.5  0.2720  0.72  1.00   5.10  329.0  15.0  279.9   2.0    0   0.00   65.  1005.    2 NAD-SFC NoSubs
 9 10 28 301  4  -55.2  0.498 -9.000 -9.000 -999.  843.   200.2  0.2720  0.72  1.00   5.10  320.0  15.0  279.5   2.0    0   0.00   67.  1005.    2 NAD-SFC NoSubs
 9 10 28 301  5  -55.3  0.498 -9.000 -9.000 -999.  843.   199.9  0.2720  0.72  1.00   5.10  320.0  15.0  279.1   2.0    0   0.00   68.  1005.    2 NAD-SFC NoSubs
 9 10 28 301  6  -49.8  0.447 -9.000 -9.000 -999.  720.   161.0  0.2720  0.72  1.00   4.60  325.0  15.0  278.8   2.0    0   0.00   69.  1006.    2 NAD-SFC NoSubs
 9 10 28 301  7  -47.5  0.447 -9.000 -9.000 -999.  718.   169.1  0.2720  0.72  0.66   4.60  316.0  15.0  278.5   2.0    0   0.00   69.  1006.    2 NAD-SFC NoSubs
 9 10 28 301  8   16.6  0.587  0.316  0.005   68. 1078. -1091.8  0.2930  0.72  0.34   5.70  335.0  15.0  279.9   2.0    0   0.00   61.  1006.    2 NAD-SFC NoSubs
 9 10 28 301  9   66.1  0.847  0.749  0.005  228. 1870.  -826.4  0.2930  0.72  0.25   8.20  333.0  15.0  282.8   2.0    0   0.00   46.  1006.    2 NAD-SFC NoSubs
 9 10 28 301 10  105.0  0.791  1.030  0.005  373. 1698.  -423.5  0.2720  0.72  0.21   7.70  327.0  15.0  284.5   2.0    0   0.00   37.  1006.    2 NAD-SFC NoSubs
 9 10 28 301 11  130.2  0.762  1.234  0.005  518. 1601.  -305.3  0.2930  0.72  0.20   7.20  337.0  15.0  285.8   2.0    0   0.00   32.  1006.    2 NAD-SFC NoSubs
 9 10 28 301 12  140.6  0.717  1.359  0.005  641. 1462.  -234.5  0.2930  0.72  0.20   6.70  338.0  15.0  286.5   2.0    0   0.00   31.  1005.    2 NAD-SFC NoSubs
 9 10 28 301 13  136.1  0.668  1.522  0.005  929. 1317.  -196.6  0.2930  0.72  0.20   6.20  331.0  15.0  287.1   2.0    0   0.00   30.  1005.    2 NAD-SFC NoSubs
 9 10 28 301 14  116.9  0.607  1.633  0.005 1337. 1141.  -171.0  0.2720  0.72  0.21   5.70  326.0  15.0  287.5   2.0    0   0.00   30.  1004.    2 NAD-SFC NoSubs
 9 10 28 301 15   83.4  0.543  1.623  0.005 1838.  965.  -171.5  0.2720  0.72  0.23   5.10  326.0  15.0  287.9   2.0    0   0.00   30.  1004.    2 NAD-SFC NoSubs
 9 10 28 301 16   37.6  0.388  1.253  0.005 1876.  601.  -138.6  0.2720  0.72  0.29   3.60  318.0  15.0  287.8   2.0    0   0.00   37.  1004.    2 NAD-SFC NoSubs
 9 10 28 301 17  -11.3  0.200 -9.000 -9.000 -999.  250.    63.2  0.2720  0.72  0.50   2.10  300.0  15.0  287.2   2.0    0   0.00   42.  1004.    2 NAD-SFC NoSubs
 9 10 28 301 18   -6.7  0.123 -9.000 -9.000 -999.  107.    24.6  0.1750  0.72  1.00   1.50  256.0  15.0  286.4   2.0    0   0.00   43.  1004.    2 NAD-SFC NoSubs
 9 10 28 301 19   -1.5  0.081 -9.000 -9.000 -999.   55.    31.4  0.1950  0.72  1.00   0.50  223.0  15.0  285.8   2.0    0   0.00   43.  1005.    2 NAD-SFC NoSubs
 9 10 28 301 20   -3.6  0.096 -9.000 -9.000 -999.   71.    22.1  0.1950  0.72  1.00   1.00  238.0  15.0  284.9   2.0    0   0.00   44.  1005.    2 NAD-SFC NoSubs
 9 10 28 301 21  -21.7  0.224 -9.000 -9.000 -999.  255.    46.4  0.1950  0.72  1.00   2.60  235.0  15.0  284.0   2.0    0   0.00   46.  1005.    2 NAD-SFC NoSubs
 9 10 28 301 22  -34.7  0.316 -9.000 -9.000 -999.  427.    81.8  0.1950  0.72  1.00   3.60  234.0  15.0  282.8   2.0    0   0.00   50.  1006.    2 NAD-SFC NoSubs
 9 10 28 301 23  -29.8  0.270 -9.000 -9.000 -999.  338.    59.5  0.1950  0.72  1.00   3.10  220.0  15.0  281.8   2.0    0   0.00   52.  1006.    2 NAD-SFC NoSubs
 9 10 28 301 24  -14.0  0.178 -9.000 -9.000 -999.  183.    36.0  0.1950  0.72  1.00   2.10  229.0  15.0  281.1   2.0    0   0.00   55.  1007.    2 NAD-SFC NoSubs
 9 10 29 302  1   -6.8  0.123 -9.000 -9.000 -999.  104.    24.4  0.1750  0.72  1.00   1.50  259.0  15.0  280.2   2.0    0   0.00   61.  1007.    2 NAD-SFC NoSubs
 9 10 29 302  2   -7.4  0.129 -9.000 -9.000 -999.  111.    26.0  0.2160  0.72  1.00   1.50  278.0  15.0  279.6   2.0    0   0.00   65.  1007.    2 NAD-SFC NoSubs
 9 10 29 302  3  -14.7  0.183 -9.000 -9.000 -999.  187.    37.2  0.2160  0.72  1.00   2.10  289.0  15.0  279.1   2.0    0   0.00   68.  1008.    2 NAD-SFC NoSubs
 9 10 29 302  4  -23.0  0.230 -9.000 -9.000 -999.  265.    47.7  0.2160  0.72  1.00   2.60  293.0  15.0  278.8   2.0    0   0.00   70.  1008.    2 NAD-SFC NoSubs
 9 10 29 302  5  -23.0  0.230 -9.000 -9.000 -999.  265.    47.7  0.2160  0.72  1.00   2.60  295.0  15.0  278.5   2.0    0   0.00   70.  1008.    2 NAD-SFC NoSubs
 9 10 29 302  6  -14.7  0.183 -9.000 -9.000 -999.  188.    37.1  0.2160  0.72  1.00   2.10  294.0  15.0  278.2   2.0    0   0.00   69.  1009.    2 NAD-SFC NoSubs
 9 10 29 302  7   -7.3  0.129 -9.000 -9.000 -999.  112.    26.4  0.2160  0.72  0.67   1.50  279.0  15.0  278.0   2.0    0   0.00   69.  1010.    2 NAD-SFC NoSubs
 9 10 29 302  8   15.3  0.124  0.303  0.011   65.  104.   -11.1  0.1750  0.72  0.35   1.00  268.0  15.0  278.2   2.0    0   0.00   67.  1010.    2 NAD-SFC NoSubs
 9 10 29 302  9   64.5  0.106  0.732  0.010  219.   83.    -1.7  0.2930  0.72  0.25   0.50  353.0  15.0  280.8   2.0    0   0.00   54.  1011.    2 NAD-SFC NoSubs
 9 10 29 302 10  103.4 -9.000 -9.000 -9.000  339. -999. -99999.0  0.2235  0.72  0.21   0.00    0.0  15.0  282.6   2.0    0   0.00   48.  1011.    2 NAD-SFC NoSubs
 9 10 29 302 11  128.5 -9.000 -9.000 -9.000  461. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  284.1   2.0    0   0.00   44.  1011.    2 NAD-SFC NoSubs
 9 10 29 302 12  139.1 -9.000 -9.000 -9.000  576. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  285.4   2.0    0   0.00   42.  1010.    2 NAD-SFC NoSubs
 9 10 29 302 13  134.8  0.115  1.361  0.007  674.   94.    -1.0  0.2720  0.72  0.20   0.50  306.0  15.0  286.8   2.0    0   0.00   37.  1009.    2 NAD-SFC NoSubs
 9 10 29 302 14  115.7  0.172  1.354  0.006  772.  171.    -3.9  0.2720  0.72  0.21   1.00  316.0  15.0  287.8   2.0    0   0.00   35.  1009.    2 NAD-SFC NoSubs
 9 10 29 302 15   82.3  0.218  1.241  0.006  836.  243.   -11.2  0.2930  0.72  0.23   1.50  333.0  15.0  288.2   2.0    0   0.00   34.  1008.    2 NAD-SFC NoSubs
 9 10 29 302 16   36.6  0.200  0.957  0.006  862.  214.   -19.6  0.2930  0.72  0.30   1.50  343.0  15.0  288.2   2.0    0   0.00   35.  1008.    2 NAD-SFC NoSubs
 9 10 29 302 17   -2.8  0.094 -9.000 -9.000 -999.   75.    26.7  0.2930  0.72  0.50   1.00  342.0  15.0  288.0   2.0    0   0.00   39.  1008.    2 NAD-SFC NoSubs
 9 10 29 302 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  287.0   2.0    0   0.00   44.  1008.    2 NAD-SFC NoSubs
 9 10 29 302 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  285.8   2.0    0   0.00   50.  1009.    2 NAD-SFC NoSubs
 9 10 29 302 20   -1.5  0.080 -9.000 -9.000 -999.   54.    31.3  0.1810  0.72  1.00   0.50  166.0  15.0  284.8   2.0    0   0.00   56.  1009.    2 NAD-SFC NoSubs
 9 10 29 302 21   -6.9  0.124 -9.000 -9.000 -999.  104.    24.8  0.1810  0.72  1.00   1.50  162.0  15.0  283.8   2.0    0   0.00   60.  1009.    2 NAD-SFC NoSubs
 9 10 29 302 22   -7.1  0.126 -9.000 -9.000 -999.  107.    25.4  0.1970  0.72  1.00   1.50  148.0  15.0  283.2   2.0    0   0.00   62.  1009.    2 NAD-SFC NoSubs
 9 10 29 302 23   -7.1  0.126 -9.000 -9.000 -999.  107.    25.4  0.1970  0.72  1.00   1.50  131.0  15.0  282.8   2.0    0   0.00   63.  1009.    2 NAD-SFC NoSubs
 9 10 29 302 24   -7.1  0.126 -9.000 -9.000 -999.  107.    25.4  0.1970  0.72  1.00   1.50  125.0  15.0  282.2   2.0    0   0.00   64.  1009.    2 NAD-SFC NoSubs
 9 10 30 303  1   -7.1  0.126 -9.000 -9.000 -999.  107.    25.4  0.1970  0.72  1.00   1.50  120.0  15.0  281.9   2.0    0   0.00   65.  1009.    2 NAD-SFC NoSubs
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 9 10 30 303  2   -3.7  0.097 -9.000 -9.000 -999.   73.     22.4  0.2130  0.72  1.00  1.00 115.0  15.0 281.5  2.0   0  0.00  66. 1009.   2 NAD-SFC NoSubs
 9 10 30 303  3   -1.6  0.082 -9.000 -9.000 -999.   56.     31.7  0.2090  0.72  1.00  0.50  83.0  15.0 281.1  2.0   0  0.00  67. 1009.   2 NAD-SFC NoSubs
 9 10 30 303  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 280.6  2.0   0  0.00  69. 1009.   2 NAD-SFC NoSubs
 9 10 30 303  5   -1.5  0.081 -9.000 -9.000 -999.   55.     31.5  0.1900  0.72  1.00  0.50 198.0  15.0 280.2  2.0   0  0.00  71. 1010.   2 NAD-SFC NoSubs
 9 10 30 303  6   -1.5  0.081 -9.000 -9.000 -999.   56.     31.6  0.1950  0.72  1.00  0.50 216.0  15.0 280.0  2.0   0  0.00  70. 1010.   2 NAD-SFC NoSubs
 9 10 30 303  7    6.5 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.68  0.00   0.0  15.0 280.0  2.0   0  0.00  69. 1010.   2 NAD-SFC NoSubs
 9 10 30 303  8   14.6  0.081  0.287  0.012   58.   55.     -3.3  0.2090  0.72  0.35  0.50  89.0  15.0 280.2  2.0   0  0.00  69. 1011.   2 NAD-SFC NoSubs
 9 10 30 303  9   63.9 -9.000 -9.000 -9.000  183. -999. -99999.0  0.2235  0.72  0.25  0.00   0.0  15.0 283.2  2.0   0  0.00  59. 1011.   2 NAD-SFC NoSubs
 9 10 30 303 10  103.0 -9.000 -9.000 -9.000  355. -999. -99999.0  0.2235  0.72  0.21  0.00   0.0  15.0 285.9  2.0   0  0.00  48. 1011.   2 NAD-SFC NoSubs
 9 10 30 303 11  128.3 -9.000 -9.000 -9.000  498. -999. -99999.0  0.2235  0.72  0.20  0.00   0.0  15.0 287.9  2.0   0  0.00  42. 1011.   2 NAD-SFC NoSubs
 9 10 30 303 12  139.1 -9.000 -9.000 -9.000  619. -999. -99999.0  0.2235  0.72  0.20  0.00   0.0  15.0 289.6  2.0   0  0.00  38. 1010.   2 NAD-SFC NoSubs
 9 10 30 303 13  134.8  0.117  1.390  0.009  718.   96.     -1.1  0.2930  0.72  0.20  0.50 333.0  15.0 290.8  2.0   0  0.00  37. 1009.   2 NAD-SFC NoSubs
 9 10 30 303 14  115.7  0.115  1.367  0.009  794.   93.     -1.2  0.2930  0.72  0.21  0.50 338.0  15.0 291.6  2.0   0  0.00  38. 1008.   2 NAD-SFC NoSubs
 9 10 30 303 15   82.4  0.167  1.246  0.009  844.  164.     -5.1  0.2930  0.72  0.23  1.00 353.0  15.0 292.1  2.0   0  0.00  38. 1008.   2 NAD-SFC NoSubs
 9 10 30 303 16   36.8  0.200  0.961  0.009  866.  214.    -19.5  0.2930  0.72  0.30  1.50 349.0  15.0 292.1  2.0   0  0.00  40. 1007.   2 NAD-SFC NoSubs
 9 10 30 303 17   -6.3  0.142 -9.000 -9.000 -999.  129.     40.9  0.2930  0.72  0.51  1.50 354.0  15.0 291.6  2.0   0  0.00  45. 1007.   2 NAD-SFC NoSubs
 9 10 30 303 18   -4.1  0.102 -9.000 -9.000 -999.   79.     23.6  0.2930  0.72  1.00  1.00 354.0  15.0 290.2  2.0   0  0.00  51. 1007.   2 NAD-SFC NoSubs
 9 10 30 303 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 289.0  2.0   0  0.00  57. 1008.   2 NAD-SFC NoSubs
 9 10 30 303 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 287.8  2.0   0  0.00  63. 1008.   2 NAD-SFC NoSubs
 9 10 30 303 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 286.8  2.0   0  0.00  68. 1008.   2 NAD-SFC NoSubs
 9 10 30 303 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 285.8  2.0   0  0.00  73. 1009.   2 NAD-SFC NoSubs
 9 10 30 303 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 285.1  2.0   0  0.00  75. 1009.   2 NAD-SFC NoSubs
 9 10 30 303 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 284.5  2.0   0  0.00  78. 1009.   2 NAD-SFC NoSubs
 9 10 31 304  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 283.9  2.0   0  0.00  81. 1009.   2 NAD-SFC NoSubs
 9 10 31 304  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 283.4  2.0   0  0.00  83. 1009.   2 NAD-SFC NoSubs
 9 10 31 304  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 283.0  2.0   0  0.00  85. 1008.   2 NAD-SFC NoSubs
 9 10 31 304  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 282.8  2.0   0  0.00  86. 1008.   2 NAD-SFC NoSubs
 9 10 31 304  5   -1.6  0.082 -9.000 -9.000 -999.   56.     31.7  0.2160  0.72  1.00  0.50 280.0  15.0 282.5  2.0   0  0.00  86. 1009.   2 NAD-SFC NoSubs
 9 10 31 304  6   -3.7  0.098 -9.000 -9.000 -999.   73.     22.5  0.2160  0.72  1.00  1.00 277.0  15.0 282.4  2.0   0  0.00  86. 1009.   2 NAD-SFC NoSubs
 9 10 31 304  7   -3.7  0.097 -9.000 -9.000 -999.   72.     22.4  0.2160  0.72  0.69  1.00 285.0  15.0 282.2  2.0   0  0.00  86. 1009.   2 NAD-SFC NoSubs
 9 10 31 304  8   14.0  0.128  0.262  0.012   46.  110.    -13.4  0.2160  0.72  0.35  1.00 281.0  15.0 282.6  2.0   0  0.00  86. 1009.   2 NAD-SFC NoSubs
 9 10 31 304  9   63.3  0.198  0.655  0.012  160.  211.    -11.0  0.2160  0.72  0.25  1.50 296.0  15.0 285.6  2.0   0  0.00  77. 1009.   2 NAD-SFC NoSubs
 9 10 31 304 10  102.2  0.169  0.986  0.012  337.  166.     -4.2  0.2720  0.72  0.22  1.00 304.0  15.0 287.5  2.0   0  0.00  71. 1009.   2 NAD-SFC NoSubs
 9 10 31 304 11  127.7  0.109  1.173  0.012  455.   87.     -1.0  0.2160  0.72  0.20  0.50 299.0  15.0 289.6  2.0   0  0.00  62. 1008.   2 NAD-SFC NoSubs
 9 10 31 304 12  138.4  0.116  1.277  0.011  540.   95.     -1.0  0.2720  0.72  0.20  0.50 301.0  15.0 291.1  2.0   0  0.00  56. 1007.   2 NAD-SFC NoSubs
 9 10 31 304 13  134.1  0.115  1.318  0.010  613.   94.     -1.0  0.2720  0.72  0.20  0.50 315.0  15.0 292.2  2.0   0  0.00  52. 1006.   2 NAD-SFC NoSubs
 9 10 31 304 14  115.1  0.175  1.291  0.010  671.  175.     -4.1  0.2930  0.72  0.21  1.00 334.0  15.0 293.1  2.0   0  0.00  50. 1006.   2 NAD-SFC NoSubs
 9 10 31 304 15   81.8  0.167  1.177  0.009  716.  164.     -5.1  0.2930  0.72  0.23  1.00 340.0  15.0 293.6  2.0   0  0.00  49. 1005.   2 NAD-SFC NoSubs
 9 10 31 304 16   36.2  0.200  0.906  0.009  734.  214.    -19.7  0.2930  0.72  0.30  1.50 351.0  15.0 293.6  2.0   0  0.00  50. 1005.   2 NAD-SFC NoSubs
 9 10 31 304 17   -2.8  0.094 -9.000 -9.000 -999.   75.     26.4  0.2930  0.72  0.52  1.00 359.0  15.0 293.1  2.0   0  0.00  54. 1004.   2 NAD-SFC NoSubs
 9 10 31 304 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 291.9  2.0   0  0.00  59. 1005.   2 NAD-SFC NoSubs
 9 10 31 304 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 290.4  2.0   0  0.00  66. 1005.   2 NAD-SFC NoSubs
 9 10 31 304 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 289.2  2.0   0  0.00  72. 1005.   2 NAD-SFC NoSubs
 9 10 31 304 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 288.1  2.0   0  0.00  77. 1005.   2 NAD-SFC NoSubs
 9 10 31 304 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 287.2  2.0   0  0.00  82. 1005.   2 NAD-SFC NoSubs
 9 10 31 304 23   -1.5  0.081 -9.000 -9.000 -999.   56.     31.6  0.2130  0.72  1.00  0.50  94.0  15.0 286.4  2.0   0  0.00  85. 1006.   2 NAD-SFC NoSubs
 9 10 31 304 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 285.8  2.0   0  0.00  88. 1005.   2 NAD-SFC NoSubs
 9 11  1 305  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 285.2  2.0   0  0.00  90. 1005.   2 NAD-SFC NoSubs
 9 11  1 305  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 284.8  2.0   0  0.00  92. 1005.   2 NAD-SFC NoSubs
 9 11  1 305  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 284.2  2.0   0  0.00  94. 1005.   2 NAD-SFC NoSubs
 9 11  1 305  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 283.8  2.0   0  0.00  94. 1005.   2 NAD-SFC NoSubs
 9 11  1 305  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 282.8  2.0   0  0.00  97. 1005.   2 NAD-SFC NoSubs
 9 11  1 305  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 282.1  2.0   0  0.00  98. 1006.   2 NAD-SFC NoSubs
 9 11  1 305  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.70  0.00   0.0  15.0 281.0  2.0   0  0.00 100. 1006.   2 NAD-SFC NoSubs
 9 11  1 305  8   12.7 -9.000 -9.000 -9.000   42. -999. -99999.0  0.2235  0.72  0.36  0.00   0.0  15.0 281.0  2.0   0  0.00 100. 1007.   2 NAD-SFC NoSubs
 9 11  1 305  9   61.4 -9.000 -9.000 -9.000  152. -999. -99999.0  0.2235  0.72  0.25  0.00   0.0  15.0 282.6  2.0   0  0.00  98. 1007.   2 NAD-SFC NoSubs
 9 11  1 305 10  100.6 -9.000 -9.000 -9.000  350. -999. -99999.0  0.2235  0.72  0.22  0.00   0.0  15.0 285.9  2.0   0  0.00  88. 1007.   2 NAD-SFC NoSubs
 9 11  1 305 11  126.2 -9.000 -9.000 -9.000  454. -999. -99999.0  0.2235  0.72  0.20  0.00   0.0  15.0 289.0  2.0   0  0.00  75. 1006.   2 NAD-SFC NoSubs
 9 11  1 305 12  137.2 -9.000 -9.000 -9.000  528. -999. -99999.0  0.2235  0.72  0.20  0.00   0.0  15.0 291.2  2.0   0  0.00  65. 1005.   2 NAD-SFC NoSubs
 9 11  1 305 13  133.4  0.117  1.301  0.014  592.   96.     -1.1  0.2930  0.72  0.20  0.50 342.0  15.0 293.4  2.0   0  0.00  53. 1004.   2 NAD-SFC NoSubs
 9 11  1 305 14  114.5  0.174  1.271  0.013  642.  175.     -4.1  0.2930  0.72  0.21  1.00 347.0  15.0 294.5  2.0   0  0.00  49. 1003.   2 NAD-SFC NoSubs
 9 11  1 305 15   81.2  0.274  1.153  0.013  677.  345.    -22.7  0.2940  0.72  0.23  2.10  11.0  15.0 294.9  2.0   0  0.00  49. 1003.   2 NAD-SFC NoSubs
 9 11  1 305 16   36.6  0.256  0.893  0.013  695.  310.    -40.8  0.2940  0.72  0.30  2.10   9.0  15.0 296.9  2.0   0  0.00  50. 1002.   2 NAD-SFC NoSubs
 9 11  1 305 17  -12.2  0.204 -9.000 -9.000 -999.  222.     62.2  0.2940  0.72  0.52  2.10  21.0  15.0 296.2  2.0   0  0.00  55. 1002.   2 NAD-SFC NoSubs
 9 11  1 305 18   -4.0  0.102 -9.000 -9.000 -999.   83.     23.7  0.2940  0.72  1.00  1.00  19.0  15.0 294.9  2.0   0  0.00  60. 1003.   2 NAD-SFC NoSubs
 9 11  1 305 19   -1.4  0.079 -9.000 -9.000 -999.   53.     30.9  0.1750  0.72  1.00  0.50 246.0  15.0 293.5  2.0   0  0.00  66. 1003.   2 NAD-SFC NoSubs
 9 11  1 305 20   -1.5  0.080 -9.000 -9.000 -999.   54.     31.2  0.1950  0.72  1.00  0.50 235.0  15.0 292.2  2.0   0  0.00  72. 1004.   2 NAD-SFC NoSubs
 9 11  1 305 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 291.2  2.0   0  0.00  76. 1004.   2 NAD-SFC NoSubs
 9 11  1 305 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 290.2  2.0   0  0.00  81. 1004.   2 NAD-SFC NoSubs
 9 11  1 305 23   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.2090  0.72  1.00  0.50  72.0  15.0 289.5  2.0   0  0.00  85. 1005.   2 NAD-SFC NoSubs
 9 11  1 305 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 288.8  2.0   0  0.00  87. 1005.   2 NAD-SFC NoSubs
 9 11  2 306  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 288.4  2.0   0  0.00  88. 1005.   2 NAD-SFC NoSubs
 9 11  2 306  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 287.9  2.0   0  0.00  89. 1005.   2 NAD-SFC NoSubs
 9 11  2 306  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 287.4  2.0   0  0.00  90. 1005.   2 NAD-SFC NoSubs
 9 11  2 306  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 286.9  2.0   0  0.00  91. 1006.   2 NAD-SFC NoSubs
 9 11  2 306  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 286.5  2.0   0  0.00  92. 1006.   2 NAD-SFC NoSubs
 9 11  2 306  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 286.2  2.0   0  0.00  93. 1007.   2 NAD-SFC NoSubs
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 9 11   2 306   7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  0.71  0.00    0.0  15.0 285.5  2.0    0  0.00   96. 1007.    2 NAD-SFC NoSubs
 9 11   2 306   8   12.5 -9.000 -9.000 -9.000   42. -999. -99999.0 0.2235  0.72  0.36  0.00    0.0  15.0 284.9  2.0    0  0.00   97. 1008.    2 NAD-SFC NoSubs
 9 11   2 306   9   61.2 -9.000 -9.000 -9.000  145. -999. -99999.0 0.2235  0.72  0.25  0.00    0.0  15.0 286.6  2.0    0  0.00   91. 1008.    2 NAD-SFC NoSubs
 9 11   2 306  10  100.7 -9.000 -9.000 -9.000  274. -999. -99999.0 0.2235  0.72  0.22  0.00    0.0  15.0 290.2  2.0    0  0.00   75. 1008.    2 NAD-SFC NoSubs
 9 11   2 306  11  126.3 -9.000 -9.000 -9.000  392. -999. -99999.0 0.2235  0.72  0.20  0.00    0.0  15.0 292.6  2.0    0  0.00   67. 1008.    2 NAD-SFC NoSubs
 9 11   2 306  12  137.3  0.116  1.227  0.012  484.   95.     -1.0 0.2720  0.72  0.20  0.50  323.0  15.0 294.6  2.0    0  0.00   58. 1007.    2 NAD-SFC NoSubs
 9 11   2 306  13  133.3  0.175  1.275  0.010  559.  176.     -3.6 0.2720  0.72  0.20  1.00  319.0  15.0 296.0  2.0    0  0.00   51. 1006.    2 NAD-SFC NoSubs
 9 11   2 306  14  114.3  0.174  1.251  0.009  616.  175.     -4.2 0.2930  0.72  0.21  1.00  332.0  15.0 296.8  2.0    0  0.00   48. 1006.    2 NAD-SFC NoSubs
 9 11   2 306  15   81.0  0.217  1.139  0.009  653.  243.    -11.3 0.2930  0.72  0.23  1.50  338.0  15.0 297.2  2.0    0  0.00   46. 1005.    2 NAD-SFC NoSubs
 9 11   2 306  16   35.6  0.199  0.875  0.009  674.  214.    -19.9 0.2930  0.72  0.31  1.50  360.0  15.0 297.2  2.0    0  0.00   50. 1005.    2 NAD-SFC NoSubs
 9 11   2 306  17   -1.0  0.068 -9.000 -9.000 -999.   60.     27.3 0.2940  0.72  0.53  0.50   12.0  15.0 296.5  2.0    0  0.00   53. 1005.    2 NAD-SFC NoSubs
 9 11   2 306  18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00    0.0  15.0 295.1  2.0    0  0.00   58. 1005.    2 NAD-SFC NoSubs
 9 11   2 306  19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00    0.0  15.0 293.8  2.0    0  0.00   65. 1005.    2 NAD-SFC NoSubs
 9 11   2 306  20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00    0.0  15.0 292.6  2.0    0  0.00   70. 1005.    2 NAD-SFC NoSubs
 9 11   2 306  21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00    0.0  15.0 291.4  2.0    0  0.00   75. 1006.    2 NAD-SFC NoSubs
 9 11   2 306  22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00    0.0  15.0 290.5  2.0    0  0.00   80. 1006.    2 NAD-SFC NoSubs
 9 11   2 306  23   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4 0.2090  0.72  1.00  0.50   75.0  15.0 289.8  2.0    0  0.00   83. 1006.    2 NAD-SFC NoSubs
 9 11   2 306  24   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4 0.2090  0.72  1.00  0.50   70.0  15.0 289.0  2.0    0  0.00   85. 1006.    2 NAD-SFC NoSubs
 9 11   3 307   1   -1.5  0.081 -9.000 -9.000 -999.   55.     31.5 0.2090  0.72  1.00  0.50   72.0  15.0 288.5  2.0    0  0.00   85. 1005.    2 NAD-SFC NoSubs
 9 11   3 307   2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00    0.0  15.0 288.1  2.0    0  0.00   85. 1005.    2 NAD-SFC NoSubs
 9 11   3 307   3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00    0.0  15.0 287.6  2.0    0  0.00   86. 1005.    2 NAD-SFC NoSubs
 9 11   3 307   4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00    0.0  15.0 287.1  2.0    0  0.00   86. 1005.    2 NAD-SFC NoSubs
 9 11   3 307   5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00    0.0  15.0 286.8  2.0    0  0.00   87. 1005.    2 NAD-SFC NoSubs
 9 11   3 307   6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00    0.0  15.0 286.4  2.0    0  0.00   87. 1005.    2 NAD-SFC NoSubs
 9 11   3 307   7   -1.5  0.081 -9.000 -9.000 -999.   56.     31.5 0.2160  0.72  0.72  0.50  298.0  15.0 286.1  2.0    0  0.00   89. 1005.    2 NAD-SFC NoSubs
 9 11   3 307   8   11.8  0.132  0.233  0.015   38.  115.    -17.5 0.2720  0.72  0.37  1.00  300.0  15.0 286.1  2.0    0  0.00   89. 1005.    2 NAD-SFC NoSubs
 9 11   3 307   9   60.8  0.207  0.613  0.012  136.  226.    -13.0 0.2720  0.72  0.25  1.50  310.0  15.0 289.1  2.0    0  0.00   78. 1005.    2 NAD-SFC NoSubs
 9 11   3 307  10   99.7  0.275  0.893  0.011  256.  346.    -18.7 0.2720  0.72  0.22  2.10  314.0  15.0 290.9  2.0    0  0.00   73. 1005.    2 NAD-SFC NoSubs
 9 11   3 307  11  125.3  0.224  1.112  0.011  393.  256.     -8.0 0.2720  0.72  0.21  1.50  321.0  15.0 293.1  2.0    0  0.00   64. 1004.    2 NAD-SFC NoSubs
 9 11   3 307  12  136.3  0.230  1.231  0.010  491.  265.     -8.0 0.2930  0.72  0.20  1.50  330.0  15.0 294.9  2.0    0  0.00   57. 1003.    2 NAD-SFC NoSubs
 9 11   3 307  13  132.3  0.229  1.283  0.009  570.  264.     -8.1 0.2930  0.72  0.20  1.50  343.0  15.0 296.5  2.0    0  0.00   51. 1002.    2 NAD-SFC NoSubs
 9 11   3 307  14  113.6  0.225  1.261  0.008  631.  257.     -9.0 0.2930  0.72  0.21  1.50  345.0  15.0 297.8  2.0    0  0.00   45. 1002.    2 NAD-SFC NoSubs
 9 11   3 307  15   80.3 -9.000 -9.000 -9.000  679. -999. -99999.0 0.2235  0.72  0.24  0.00    0.0  15.0 298.1  2.0    0  0.00   43. 1001.    2 NAD-SFC NoSubs
 9 11   3 307  16   34.8  0.255  0.882  0.007  704.  308.    -42.3 0.2940  0.72  0.31  2.10   22.0  15.0 297.8  2.0    0  0.00   49. 1001.    2 NAD-SFC NoSubs
 9 11   3 307  17  -16.6  0.255 -9.000 -9.000 -999.  309.     89.5 0.2940  0.72  0.54  2.60   29.0  15.0 297.0  2.0    0  0.00   53. 1001.    2 NAD-SFC NoSubs
 9 11   3 307  18   -8.2  0.140 -9.000 -9.000 -999.  133.     29.8 0.2940  0.72  1.00  1.50   24.0  15.0 295.8  2.0    0  0.00   58. 1001.    2 NAD-SFC NoSubs
 9 11   3 307  19   -1.6  0.083 -9.000 -9.000 -999.   58.     31.8 0.2720  0.72  1.00  0.50  304.0  15.0 294.2  2.0    0  0.00   64. 1001.    2 NAD-SFC NoSubs
 9 11   3 307  20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00    0.0  15.0 292.9  2.0    0  0.00   70. 1001.    2 NAD-SFC NoSubs
 9 11   3 307  21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00    0.0  15.0 292.0  2.0    0  0.00   75. 1002.    2 NAD-SFC NoSubs
 9 11   3 307  22   -1.7  0.084 -9.000 -9.000 -999.   58.     32.0 0.2930  0.72  1.00  0.50  336.0  15.0 291.2  2.0    0  0.00   77. 1002.    2 NAD-SFC NoSubs
 9 11   3 307  23   -4.0  0.102 -9.000 -9.000 -999.   78.     23.6 0.2930  0.72  1.00  1.00  347.0  15.0 290.5  2.0    0  0.00   80. 1002.    2 NAD-SFC NoSubs
 9 11   3 307  24   -4.0  0.102 -9.000 -9.000 -999.   79.     23.7 0.2940  0.72  1.00  1.00    4.0  15.0 289.9  2.0    0  0.00   82. 1002.    2 NAD-SFC NoSubs
 9 11   4 308   1   -4.0  0.102 -9.000 -9.000 -999.   79.     23.6 0.2930  0.72  1.00  1.00  359.0  15.0 289.4  2.0    0  0.00   83. 1002.    2 NAD-SFC NoSubs
 9 11   4 308   2   -4.1  0.102 -9.000 -9.000 -999.   79.     23.6 0.2930  0.72  1.00  1.00  343.0  15.0 289.0  2.0    0  0.00   83. 1002.    2 NAD-SFC NoSubs
 9 11   4 308   3   -8.0  0.137 -9.000 -9.000 -999.  122.     28.6 0.2720  0.72  1.00  1.50  318.0  15.0 288.9  2.0    0  0.00   82. 1002.    2 NAD-SFC NoSubs
 9 11   4 308   4   -8.3  0.140 -9.000 -9.000 -999.  125.     29.4 0.2930  0.72  1.00  1.50  332.0  15.0 289.0  2.0    0  0.00   80. 1001.    2 NAD-SFC NoSubs
 9 11   4 308   5  -16.6  0.200 -9.000 -9.000 -999.  214.     42.8 0.2930  0.72  1.00  2.10  330.0  15.0 288.9  2.0    0  0.00   79. 1001.    2 NAD-SFC NoSubs
 9 11   4 308   6  -25.0  0.246 -9.000 -9.000 -999.  293.     53.3 0.2720  0.72  1.00  2.60  322.0  15.0 289.0  2.0    0  0.00   78. 1002.    2 NAD-SFC NoSubs
 9 11   4 308   7  -25.8  0.251 -9.000 -9.000 -999.  303.     55.1 0.2930  0.72  0.73  2.60  345.0  15.0 289.0  2.0    0  0.00   75. 1003.    2 NAD-SFC NoSubs
 9 11   4 308   8   11.6  0.282  0.238  0.007   41.  360.   -172.5 0.2930  0.72  0.37  2.60  350.0  15.0 289.0  2.0    0  0.00   74. 1003.    2 NAD-SFC NoSubs
 9 11   4 308   9   59.7 -9.000 -9.000 -9.000  140. -999. -99999.0 0.2235  0.72  0.26  0.00    0.0  15.0 289.4  2.0    0  0.00   72. 1003.    2 NAD-SFC NoSubs
 9 11   4 308  10   98.5  0.325  0.909  0.006  273.  446.    -31.4 0.2940  0.72  0.22  2.60    6.0  15.0 290.8  2.0    0  0.00   66. 1004.    2 NAD-SFC NoSubs
 9 11   4 308  11  123.7  0.424  1.116  0.006  402.  663.    -55.2 0.2930  0.72  0.21  3.60  345.0  15.0 292.0  2.0    0  0.00   60. 1004.    2 NAD-SFC NoSubs
 9 11   4 308  12  133.7  0.510  1.287  0.006  571.  872.    -88.6 0.2720  0.72  0.20  4.60  326.0  15.0 291.6  2.0    0  0.00   67. 1004.    2 NAD-SFC NoSubs
 9 11   4 308  13  128.9  0.620  1.360  0.005  700. 1170.   -165.5 0.2930  0.72  0.20  5.70  342.0  15.0 290.9  2.0    0  0.00   74. 1004.    2 NAD-SFC NoSubs
 9 11   4 308  14  110.4  0.466  1.353  0.006  803.  787.    -82.2 0.2930  0.72  0.21  4.10  344.0  15.0 291.2  2.0    0  0.00   73. 1003.    3 NAD-SFC NoSubs
 9 11   4 308  15   77.9  0.268  1.238  0.006  871.  373.    -22.2 0.2720  0.72  0.24  2.10  300.0  15.0 292.8  2.0    0  0.00   65. 1003.    3 NAD-SFC NoSubs
 9 11   4 308  16   33.3  0.323  0.942  0.006  899.  440.    -90.3 0.2160  0.72  0.31  3.10  284.0  15.0 293.2  2.0    0  0.00   66. 1003.    3 NAD-SFC NoSubs
 9 11   4 308  17  -18.9  0.281 -9.000 -9.000 -999.  358.    105.0 0.2160  0.72  0.54  3.10  295.0  15.0 292.8  2.0    0  0.00   69. 1002.    3 NAD-SFC NoSubs
 9 11   4 308  18  -12.9  0.173 -9.000 -9.000 -999.  179.     36.0 0.1750  0.72  1.00  2.10  265.0  15.0 293.1  2.0    0  0.00   64. 1003.    3 NAD-SFC NoSubs
 9 11   4 308  19  -20.2  0.218 -9.000 -9.000 -999.  245.     46.1 0.1750  0.72  1.00  2.60  256.0  15.0 292.8  2.0    0  0.00   64. 1003.    3 NAD-SFC NoSubs
 9 11   4 308  20  -43.6  0.420 -9.000 -9.000 -999.  653.    152.2 0.2160  0.72  1.00  4.60  276.0  15.0 290.9  2.0    0  0.00   75. 1004.    3 NAD-SFC NoSubs
 9 11   4 308  21  -38.9  0.373 -9.000 -9.000 -999.  548.    119.3 0.2160  0.72  1.00  4.10  288.0  15.0 289.8  2.0    0  0.00   81. 1005.    3 NAD-SFC NoSubs
 9 11   4 308  22  -34.0  0.325 -9.000 -9.000 -999.  447.     90.9 0.2160  0.72  1.00  3.60  297.0  15.0 289.4  2.0    0  0.00   83. 1005.    3 NAD-SFC NoSubs
 9 11   4 308  23  -41.5  0.397 -9.000 -9.000 -999.  600.    135.3 0.2720  0.72  1.00  4.10  307.0  15.0 289.2  2.0    0  0.00   84. 1006.    3 NAD-SFC NoSubs
 9 11   4 308  24  -41.6  0.397 -9.000 -9.000 -999.  601.    135.0 0.2720  0.72  1.00  4.10  318.0  15.0 288.8  2.0    0  0.00   85. 1006.    3 NAD-SFC NoSubs
 9 11   5 309   1  -42.6  0.406 -9.000 -9.000 -999.  620.    140.9 0.2930  0.72  1.00  4.10  339.0  15.0 288.4  2.0    0  0.00   87. 1006.    3 NAD-SFC NoSubs
 9 11   5 309   2  -42.7  0.406 -9.000 -9.000 -999.  621.    141.0 0.2940  0.72  1.00  4.10   10.0  15.0 288.0  2.0    0  0.00   88. 1006.    3 NAD-SFC NoSubs
 9 11   5 309   3  -42.7  0.406 -9.000 -9.000 -999.  621.    140.7 0.2940  0.72  1.00  4.10   19.0  15.0 287.5  2.0    0  0.00   90. 1006.    3 NAD-SFC NoSubs
 9 11   5 309   4  -42.8  0.406 -9.000 -9.000 -999.  621.    140.6 0.2940  0.72  1.00  4.10   20.0  15.0 287.2  2.0    0  0.00   91. 1007.    3 NAD-SFC NoSubs
 9 11   5 309   5  -36.1  0.355 -9.000 -9.000 -999.  510.    111.4 0.2940  0.72  1.00  3.60   17.0  15.0 287.0  2.0    0  0.00   92. 1007.    4 NAD-SFC NoSubs
 9 11   5 309   6  -30.9  0.304 -9.000 -9.000 -999.  403.     81.5 0.2940  0.72  1.00  3.10   21.0  15.0 287.0  2.0    0  0.00   92. 1007.    4 NAD-SFC NoSubs
 9 11   5 309   7  -16.3  0.200 -9.000 -9.000 -999.  221.     44.4 0.2940  0.72  0.74  2.10   19.0  15.0 287.0  2.0    0  0.00   92. 1007.    4 NAD-SFC NoSubs
 9 11   5 309   8   13.0  0.182  0.281  0.009   61.  186.    -41.8 0.2940  0.72  0.37  1.50    7.0  15.0 286.9  2.0    0  0.00   92. 1007.    4 NAD-SFC NoSubs
 9 11   5 309   9   59.6  0.210  0.687  0.008  196.  231.    -13.9 0.2940  0.72  0.26  1.50    5.0  15.0 287.9  2.0    0  0.00   87. 1008.    4 NAD-SFC NoSubs
 9 11   5 309  10   97.3 -9.000 -9.000 -9.000  323. -999. -99999.0 0.2235  0.72  0.22  0.00    0.0  15.0 289.8  2.0    0  0.00   79. 1008.    4 NAD-SFC NoSubs
 9 11   5 309  11  121.8  0.176  1.168  0.005  471.  177.     -4.0 0.2940  0.72  0.21  1.00   12.0  15.0 291.2  2.0    0  0.00   72. 1008.    4 NAD-SFC NoSubs
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9	11	5	309	12	133.6	0.117	1.333	0.005	637.	97.	-1.1	0.2940	0.72	0.20	0.50	25.0	15.0	293.0	2.0	0	0.00	65.	1007.	3	NAD-SFC	NoSubs
9	11	5	309	13	128.4	0.117	1.420	0.005	801.	95.	-1.1	0.2940	0.72	0.20	0.50	19.0	15.0	294.2	2.0	0	0.00	59.	1006.	4	NAD-SFC	NoSubs
9	11	5	309	14	110.0	0.114	1.416	0.005	925.	93.	-1.2	0.2940	0.72	0.21	0.50	16.0	15.0	295.0	2.0	0	0.00	55.	1005.	4	NAD-SFC	NoSubs
9	11	5	309	15	77.8	0.166	1.299	0.005	1011.	162.	-5.3	0.2940	0.72	0.24	1.00	20.0	15.0	295.2	2.0	0	0.00	53.	1005.	4	NAD-SFC	NoSubs
9	11	5	309	16	34.1	0.199	1.001	0.005	1053.	212.	-20.6	0.2940	0.72	0.31	1.50	18.0	15.0	295.4	2.0	0	0.00	54.	1004.	4	NAD-SFC	NoSubs
9	11	5	309	17	-15.8	0.256	-9.000	-9.000	-999.	310.	94.4	0.2940	0.72	0.55	2.60	8.0	15.0	294.8	2.0	0	0.00	59.	1004.	4	NAD-SFC	NoSubs
9	11	5	309	18	-28.7	0.304	-9.000	-9.000	-999.	403.	88.0	0.2940	0.72	1.00	3.10	14.0	15.0	293.6	2.0	0	0.00	65.	1005.	5	NAD-SFC	NoSubs
9	11	5	309	19	-24.3	0.298	-9.000	-9.000	-999.	391.	97.8	0.2720	0.72	1.00	3.10	316.0	15.0	292.9	2.0	0	0.00	68.	1005.	7	NAD-SFC	NoSubs
9	11	5	309	20	-37.5	0.421	-9.000	-9.000	-999.	656.	178.8	0.2160	0.72	1.00	4.60	299.0	15.0	291.6	2.0	0	0.00	77.	1006.	6	NAD-SFC	NoSubs
9	11	5	309	21	-35.6	0.373	-9.000	-9.000	-999.	549.	131.0	0.2160	0.72	1.00	4.10	286.0	15.0	290.4	2.0	0	0.00	85.	1007.	5	NAD-SFC	NoSubs
9	11	5	309	22	-29.3	0.326	-9.000	-9.000	-999.	449.	106.6	0.2160	0.72	1.00	3.60	287.0	15.0	289.6	2.0	0	0.00	88.	1007.	6	NAD-SFC	NoSubs
9	11	5	309	23	-23.2	0.280	-9.000	-9.000	-999.	356.	84.9	0.2160	0.72	1.00	3.10	288.0	15.0	289.1	2.0	0	0.00	89.	1007.	7	NAD-SFC	NoSubs
9	11	5	309	24	-7.1	0.137	-9.000	-9.000	-999.	137.	32.7	0.2720	0.72	1.00	1.50	319.0	15.0	288.9	2.0	0	0.00	89.	1007.	7	NAD-SFC	NoSubs
9	11	6	310	1	-3.2	0.094	-9.000	-9.000	-999.	69.	23.2	0.2470	0.72	1.00	1.00	52.0	15.0	288.8	2.0	0	0.00	90.	1007.	7	NAD-SFC	NoSubs
9	11	6	310	2	-5.2	0.129	-9.000	-9.000	-999.	112.	37.5	0.2090	0.72	1.00	1.50	61.0	15.0	288.8	2.0	0	0.00	90.	1007.	10	NAD-SFC	NoSubs
9	11	6	310	3	-0.9	0.063	-9.000	-9.000	-999.	39.	26.0	0.2470	0.72	1.00	0.50	50.0	15.0	288.8	2.0	0	0.00	91.	1007.	10	NAD-SFC	NoSubs
9	11	6	310	4	-0.9	0.064	-9.000	-9.000	-999.	39.	26.2	0.2720	0.72	1.00	0.50	324.0	15.0	288.5	2.0	0	0.00	92.	1007.	10	NAD-SFC	NoSubs
9	11	6	310	5	-3.0	0.091	-9.000	-9.000	-999.	66.	22.6	0.2160	0.72	1.00	1.00	285.0	15.0	288.4	2.0	0	0.00	92.	1007.	7	NAD-SFC	NoSubs
9	11	6	310	6	-13.3	0.184	-9.000	-9.000	-999.	190.	42.1	0.2160	0.72	1.00	2.10	282.0	15.0	288.2	2.0	0	0.00	91.	1007.	6	NAD-SFC	NoSubs
9	11	6	310	7	-13.3	0.184	-9.000	-9.000	-999.	190.	42.1	0.2160	0.72	0.75	2.10	287.0	15.0	288.2	2.0	0	0.00	90.	1008.	6	NAD-SFC	NoSubs
9	11	6	310	8	11.8	0.220	0.463	0.005	303.	248.	-81.4	0.2160	0.72	0.38	2.10	292.0	15.0	288.0	2.0	0	0.00	88.	1008.	7	NAD-SFC	NoSubs
9	11	6	310	9	49.0	0.302	0.861	0.005	469.	399.	-50.7	0.2720	0.72	0.26	2.60	308.0	15.0	288.1	2.0	0	0.00	82.	1008.	7	NAD-SFC	NoSubs
9	11	6	310	10	93.2	0.221	1.168	0.005	615.	251.	-10.4	0.2930	0.72	0.22	1.50	334.0	15.0	288.6	2.0	0	0.00	79.	1008.	5	NAD-SFC	NoSubs
9	11	6	310	11	119.9	0.113	1.385	0.006	796.	98.	-1.1	0.2720	0.72	0.21	0.50	318.0	15.0	289.1	2.0	0	0.00	78.	1007.	4	NAD-SFC	NoSubs
9	11	6	310	12	131.5	0.109	1.525	0.006	969.	87.	-1.0	0.2160	0.72	0.20	0.50	283.0	15.0	290.4	2.0	0	0.00	73.	1006.	3	NAD-SFC	NoSubs
9	11	6	310	13	127.2	0.165	1.548	0.006	1046.	161.	-3.2	0.2160	0.72	0.20	1.00	277.0	15.0	291.2	2.0	0	0.00	69.	1005.	3	NAD-SFC	NoSubs
9	11	6	310	14	108.4	0.162	1.496	0.005	1108.	157.	-3.5	0.2160	0.72	0.21	1.00	277.0	15.0	292.0	2.0	0	0.00	66.	1004.	3	NAD-SFC	NoSubs
9	11	6	310	15	75.6	0.163	1.344	0.005	1149.	158.	-5.1	0.2720	0.72	0.24	1.00	315.0	15.0	292.5	2.0	0	0.00	64.	1003.	3	NAD-SFC	NoSubs
9	11	6	310	16	29.0	0.196	0.981	0.005	1162.	207.	-23.0	0.2940	0.72	0.32	1.50	14.0	15.0	291.2	2.0	0	0.00	62.	1003.	2	NAD-SFC	NoSubs
9	11	6	310	17	-20.0	0.254	-9.000	-9.000	-999.	307.	73.1	0.2940	0.72	0.56	2.60	19.0	15.0	290.6	2.0	0	0.00	66.	1003.	2	NAD-SFC	NoSubs
9	11	6	310	18	-25.9	0.252	-9.000	-9.000	-999.	303.	55.0	0.2940	0.72	1.00	2.60	26.0	15.0	289.8	2.0	0	0.00	71.	1003.	2	NAD-SFC	NoSubs
9	11	6	310	19	-23.9	0.239	-9.000	-9.000	-999.	281.	51.2	0.2470	0.72	1.00	2.60	35.0	15.0	288.8	2.0	0	0.00	76.	1004.	2	NAD-SFC	NoSubs
9	11	6	310	20	-8.3	0.140	-9.000	-9.000	-999.	130.	29.4	0.2940	0.72	1.00	1.50	27.0	15.0	287.9	2.0	0	0.00	81.	1004.	2	NAD-SFC	NoSubs
9	11	6	310	21	-4.1	0.103	-9.000	-9.000	-999.	79.	23.6	0.2930	0.72	1.00	1.00	360.0	15.0	287.1	2.0	0	0.00	85.	1004.	2	NAD-SFC	NoSubs
9	11	6	310	22	-8.4	0.140	-9.000	-9.000	-999.	125.	29.3	0.2930	0.72	1.00	1.50	335.0	15.0	286.4	2.0	0	0.00	89.	1004.	2	NAD-SFC	NoSubs
9	11	6	310	23	-16.7	0.200	-9.000	-9.000	-999.	214.	42.6	0.2930	0.72	1.00	2.10	331.0	15.0	285.8	2.0	0	0.00	92.	1004.	2	NAD-SFC	NoSubs
9	11	6	310	24	-25.8	0.252	-9.000	-9.000	-999.	303.	55.3	0.2930	0.72	1.00	2.60	343.0	15.0	285.2	2.0	0	0.00	96.	1004.	3	NAD-SFC	NoSubs
9	11	7	311	1	-32.1	0.303	-9.000	-9.000	-999.	400.	77.6	0.2930	0.72	1.00	3.10	340.0	15.0	284.8	2.0	0	0.00	99.	1004.	3	NAD-SFC	NoSubs
9	11	7	311	2	-24.9	0.246	-9.000	-9.000	-999.	294.	53.6	0.2720	0.72	1.00	2.60	327.0	15.0	284.4	2.0	0	0.00	100.	1005.	3	NAD-SFC	NoSubs
9	11	7	311	3	-16.0	0.195	-9.000	-9.000	-999.	208.	41.8	0.2720	0.72	1.00	2.10	320.0	15.0	284.8	2.0	0	0.00	98.	1005.	3	NAD-SFC	NoSubs
9	11	7	311	4	-16.0	0.195	-9.000	-9.000	-999.	207.	41.8	0.2720	0.72	1.00	2.10	310.0	15.0	284.9	2.0	0	0.00	97.	1005.	3	NAD-SFC	NoSubs
9	11	7	311	5	-14.3	0.183	-9.000	-9.000	-999.	188.	38.2	0.2160	0.72	1.00	2.10	299.0	15.0	285.1	2.0	0	0.00	97.	1005.	3	NAD-SFC	NoSubs
9	11	7	311	6	-16.0	0.195	-9.000	-9.000	-999.	207.	41.9	0.2720	0.72	1.00	2.10	301.0	15.0	285.2	2.0	0	0.00	96.	1005.	3	NAD-SFC	NoSubs
9	11	7	311	7	-14.3	0.183	-9.000	-9.000	-999.	188.	38.3	0.2160	0.72	0.77	2.10	289.0	15.0	285.2	2.0	0	0.00	95.	1005.	3	NAD-SFC	NoSubs
9	11	7	311	8	9.2	0.217	0.329	0.005	138.	243.	-99.2	0.2160	0.72	0.38	2.10	287.0	15.0	285.2	2.0	0	0.00	93.	1005.	3	NAD-SFC	NoSubs
9	11	7	311	9	56.3	0.260	0.791	0.006	315.	319.	-28.1	0.2720	0.72	0.26	2.10	305.0	15.0	285.2	2.0	0	0.00	92.	1005.	3	NAD-SFC	NoSubs
9	11	7	311	10	94.2	0.319	1.107	0.008	516.	432.	-30.8	0.2720	0.72	0.22	2.60	329.0	15.0	285.6	2.0	0	0.00	89.	1005.	3	NAD-SFC	NoSubs
9	11	7	311	11	118.8	0.280	1.316	0.010	688.	356.	-16.6	0.2720	0.72	0.21	2.10	316.0	15.0	285.9	2.0	0	0.00	87.	1005.	3	NAD-SFC	NoSubs
9	11	7	311	12	129.0	0.225	1.403	0.011	768.	257.	-7.9	0.2720	0.72	0.20	1.50	314.0	15.0	286.1	2.0	0	0.00	85.	1005.	3	NAD-SFC	NoSubs
9	11	7	311	13	124.6	0.165	1.428	0.011	838.	162.	-3.2	0.2160	0.72	0.20	1.00	290.0	15.0	286.4	2.0	0	0.00	83.	1004.	3	NAD-SFC	NoSubs
9	11	7	311	14	105.6	0.101	1.380	0.011	893.	78.	-1.0	0.1750	0.72	0.21	0.50	269.0	15.0	286.6	2.0	0	0.00	83.	1004.	3	NAD-SFC	NoSubs
9	11	7	311	15	71.5	0.099	1.229	0.011	929.	74.	-1.2	0.1950	0.72	0.24	0.50	210.0	15.0	286.8	2.0	0	0.00	83.	1003.	2	NAD-SFC	NoSubs
9	11	7	311	16	26.6	0.132	0.888	0.011	942.	115.	-7.8	0.1810	0.72	0.32	1.00	153.0	15.0	286.8	2.0	0	0.00	85.	1003.	2	NAD-SFC	NoSubs
9	11	7	311	17	-12.4	0.180	-9.000	-9.000	-999.	184.	42.4	0.1970	0.72	0.56	2.10	142.0	15.0	286.6	2.0	0	0.00	87.	1003.	2	NAD-SFC	NoSubs
9	11	7	311	18	-20.9	0.220	-9.000	-9.000	-999.	247.	45.4	0.1810	0.72	1.00	2.60	155.0	15.0	286.5	2.0	0	0.00	88.	1004.	2	NAD-SFC	NoSubs
9	11	7	311	19	-28.7	0.265	-9.000	-9.000	-999.	328.	58.3	0.1810	0.72	1.00	3.10	164.0	15.0	286.4	2.0	0	0.00	89.	1004.	2	NAD-SFC	NoSubs
9	11	7	311	20	-20.9	0.220	-9.000	-9.000	-999.	248.	45.4	0.1810	0.72	1.00	2.60	171.0	15.0	286.2	2.0	0	0.00	90.	1004.	2	NAD-SFC	NoSubs
9	11	7	311	21	-21.4	0.223	-9.000	-9.000	-999.	252.	46.2	0.1900	0.72	1.00	2.60	187.0	15.0	285.9	2.0	0	0.00	92.	1005.	2	NAD-SFC	NoSubs
9	11	7	311	22	-13.7	0.177	-9.000	-9.000	-999.	179.	35.9	0.1900	0.72	1.00	2.10	197.0	15.0	285.4	2.0	0	0.00	93.	1005.	2	NAD-SFC	NoSubs
9	11	7	311	23	-7.0	0.126	-9.000	-9.000	-999.	107.	25.4	0.1950	0.72	1.00	1.50	217.0	15.0	284.8	2.0	0	0.00	96.	1005.	2	NAD-SFC	NoSubs
9	11	7	311	24	-13.9	0.178	-9.000	-9.000	-999.	180.	36.2	0.1950	0.72	1.00	2.10	230.0	15.0	284.0	2.0	0	0.00	97.	1005.	2	NAD-SFC	NoSubs
9	11	8	312	1	-21.7	0.224	-9.000	-9.000	-999.	255.	46.4	0.1950	0.72	1.00	2.60	226.0	15.0	283.5	2.0	0	0.00	96.	1005.	2	NAD-SFC	NoSubs
9	11	8	312	2	-28.8	0.263	-9.000	-9.000	-999.	324.	56.6	0.1750	0.72	1.00	3.10	249.0	15.0	282.9	2.0	0	0.00	96.	1006.	2	NAD-SFC	NoSubs
9	11	8	312	3	-20.8	0.218	-9.000	-9.000	-999.	245.	44.5	0.1750	0.72	1.00	2.60	257.0	15.0	282.1	2.0	0	0.00	96.	1006.	2	NAD-SFC	NoSubs
9	11	8	312	4	-22.8	0.230	-9.000	-9.000	-999.	265.	48.0	0.2160	0.72	1.00	2.60	278.0	15.0	281.8	2.0	0	0.00	96.	1006.	2	NAD-SFC	NoSubs
9	11	8	312	5	-22.8	0.230	-9.000	-9.000	-999.	265.	48.0	0.2160	0.72	1.00	2.60	289.0	15.0	281.4	2.0	0	0.00	96.	1006.	2	NAD-SFC	NoSubs
9	11	8	312	6	-16.3	0.195	-9.000	-9.000	-999.	207.	40.9	0.2720	0.72	1.00	2.10	302.0	15.0	281.0	2.0	0	0.00	97.	1006.	2	NAD-SFC	NoSubs
9	11	8	312	7	-14.6	0.183	-9.000	-9.000	-999.	187.	37.3	0.2160	0.72	1.00	2.10	297.0	15.0	280.6	2.0	0	0.00	99.	1007.	2	NAD-SFC	NoSubs
9	11	8	312	8	5.5	0.223	0.186	0.007	41.	253.	-179.4	0.2720	0.72	0.39	2.10	313.0	15.0	280.5	2.0	0	0.00	99.	1007.	2	NAD-SFC	NoSubs
9	11	8	312	9	53.0	0.194	0.643	0.007	180.	205.	-12.4	0.2160	0.72	0.26	1.50	298.0	15.0	281.0	2.0	0	0.00	95.	1007.	2	NAD-SFC	NoSubs
9	11	8	312	10	91.3	0.109	0.981	0.008	371.	89.	-1.3	0.2720	0.72	0.22	0.50	314.0	15.0	281.9	2.0	0	0.00	89.	1007.	2	NAD-SFC	NoSubs
9	11	8	312	11	116.5	0.115	1.216	0.011	555.	93.	-1.2	0.2930	0.72	0.21	0.50	337.0	15.0	283.8	2.0	0	0.00	78.	1006.	2	NAD-SFC	NoSubs
9	11	8	312	12	127.1	0.174	1.341	0.012	681.	174.	-3.7	0.2720	0.72	0.20	1.00	328.0	15.0	285.4	2.0	0	0.00	69.	1005.	2	NAD-SFC	NoSubs
9	11	8	312	13	122.9	0.173	1.366	0.012	743.	173.	-3.8	0.2720	0.72	0.21	1.00	329.0	15.0	286.8	2.0	0	0.00	64.	1004.	2	NAD-SFC	NoSubs
9	11	8	312	14	104.0	0.220	1.319	0.013	791.	247.	-9.1	0.2720	0.72	0.21	1.50	327.0	15.0	287.8	2.0	0	0.00	60.	1004.	2	NAD-SFC	NoSubs
9	11	8	312	15	71.0	0.214	1.178	0.013	823.	238.	-12.4	0.2930	0.72	0.24	1.50	343.0	15.0	288.4	2.0	0	0.00	59.	1003.	2	NAD-SFC	NoSubs
9	11	8	312	16	26.2	0.193	0.849	0.013	835.	204.	-24.6	0.2930	0.72	0.32	1.50	338.0	15.0	288.5	2.0	0	0.00	60.	1003.	2	NAD-SFC	NoSubs

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 9 11  8 312 17   -7.4  0.140 -9.000 -9.000 -999.  127.     33.3  0.2930  0.72  0.57  1.50 348.0  15.0 288.1  2.0    0  0.00   64.  1002.     2 NAD-SFC NoSubs
 9 11  8 312 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 287.1  2.0    0  0.00   69.  1003.     2 NAD-SFC NoSubs
 9 11  8 312 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 286.0  2.0    0  0.00   74.  1003.     2 NAD-SFC NoSubs
 9 11  8 312 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 285.0  2.0    0  0.00   80.  1004.     2 NAD-SFC NoSubs
 9 11  8 312 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 284.2  2.0    0  0.00   84.  1004.     2 NAD-SFC NoSubs
 9 11  8 312 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 283.4  2.0    0  0.00   88.  1005.     2 NAD-SFC NoSubs
 9 11  8 312 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 282.8  2.0    0  0.00   91.  1005.     2 NAD-SFC NoSubs
 9 11  8 312 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 281.9  2.0    0  0.00   93.  1005.     2 NAD-SFC NoSubs
 9 11  9 313  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 280.8  2.0    0  0.00   94.  1006.     2 NAD-SFC NoSubs
 9 11  9 313  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 279.8  2.0    0  0.00   95.  1006.     2 NAD-SFC NoSubs
 9 11  9 313  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 279.1  2.0    0  0.00   95.  1006.     2 NAD-SFC NoSubs
 9 11  9 313  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 278.8  2.0    0  0.00   95.  1006.     2 NAD-SFC NoSubs
 9 11  9 313  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 278.4  2.0    0  0.00   94.  1007.     2 NAD-SFC NoSubs
 9 11  9 313  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 278.1  2.0    0  0.00   93.  1007.     2 NAD-SFC NoSubs
 9 11  9 313  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 278.0  2.0    0  0.00   92.  1008.     2 NAD-SFC NoSubs
 9 11  9 313  8    4.2 -9.000 -9.000 -9.000   17. -999. -99999.0  0.2235  0.72  0.39  0.00   0.0  15.0 278.5  2.0    0  0.00   87.  1008.     2 NAD-SFC NoSubs
 9 11  9 313  9   51.8  0.156  0.508  0.013   91.  147.     -6.5  0.2720  0.72  0.26  1.00 314.0  15.0 280.9  2.0    0  0.00   70.  1008.     2 NAD-SFC NoSubs
 9 11  9 313 10   90.4  0.216  0.820  0.011  219.  241.    -10.1  0.2720  0.72  0.22  1.50 302.0  15.0 283.1  2.0    0  0.00   56.  1008.     2 NAD-SFC NoSubs
 9 11  9 313 11  115.5  0.222  1.032  0.010  342.  251.     -8.5  0.2720  0.72  0.21  1.50 311.0  15.0 284.4  2.0    0  0.00   52.  1008.     2 NAD-SFC NoSubs
 9 11  9 313 12  126.1  0.224  1.168  0.010  455.  255.     -8.0  0.2720  0.72  0.20  1.50 318.0  15.0 285.9  2.0    0  0.00   48.  1007.     2 NAD-SFC NoSubs
 9 11  9 313 13  121.9  0.285  1.233  0.010  553.  366.    -17.1  0.2930  0.72  0.21  2.10 343.0  15.0 286.9  2.0    0  0.00   45.  1007.     2 NAD-SFC NoSubs
 9 11  9 313 14  102.9  0.280  1.213  0.010  624.  356.    -19.2  0.2930  0.72  0.22  2.10 352.0  15.0 287.5  2.0    0  0.00   45.  1007.     2 NAD-SFC NoSubs
 9 11  9 313 15   69.8 -9.000 -9.000 -9.000  668. -999. -99999.0  0.2235  0.72  0.24  0.00   0.0  15.0 287.8  2.0    0  0.00   46.  1007.     2 NAD-SFC NoSubs
 9 11  9 313 16   25.0  0.145  0.781  0.010  684.  133.    -11.0  0.2930  0.72  0.32  1.00 360.0  15.0 287.5  2.0    0  0.00   51.  1006.     2 NAD-SFC NoSubs
 9 11  9 313 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.58  0.00   0.0  15.0 287.1  2.0    0  0.00   54.  1007.     2 NAD-SFC NoSubs
 9 11  9 313 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 286.4  2.0    0  0.00   57.  1007.     2 NAD-SFC NoSubs
 9 11  9 313 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 285.8  2.0    0  0.00   61.  1007.     2 NAD-SFC NoSubs
 9 11  9 313 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 285.2  2.0    0  0.00   65.  1007.     2 NAD-SFC NoSubs
 9 11  9 313 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 284.8  2.0    0  0.00   68.  1007.     2 NAD-SFC NoSubs
 9 11  9 313 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 284.5  2.0    0  0.00   70.  1007.     2 NAD-SFC NoSubs
 9 11  9 313 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 284.4  2.0    0  0.00   70.  1008.     2 NAD-SFC NoSubs
 9 11  9 313 24   -1.7  0.085 -9.000 -9.000 -999.   59.     32.3  0.2940  0.72  1.00  0.50  20.0  15.0 284.2  2.0    0  0.00   70.  1007.     2 NAD-SFC NoSubs
 9 11 10 314  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 284.2  2.0    0  0.00   70.  1007.     2 NAD-SFC NoSubs
 9 11 10 314  2   -1.6  0.082 -9.000 -9.000 -999.   56.     31.7  0.2160  0.72  1.00  0.50 295.0  15.0 284.2  2.0    0  0.00   70.  1007.     2 NAD-SFC NoSubs
 9 11 10 314  3   -1.5  0.080 -9.000 -9.000 -999.   54.     31.2  0.1750  0.72  1.00  0.50 268.0  15.0 284.1  2.0    0  0.00   69.  1007.     2 NAD-SFC NoSubs
 9 11 10 314  4   -1.5  0.080 -9.000 -9.000 -999.   54.     31.2  0.1750  0.72  1.00  0.50 268.0  15.0 284.1  2.0    0  0.00   68.  1008.     2 NAD-SFC NoSubs
 9 11 10 314  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 284.0  2.0    0  0.00   67.  1008.     2 NAD-SFC NoSubs
 9 11 10 314  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 283.9  2.0    0  0.00   68.  1008.     2 NAD-SFC NoSubs
 9 11 10 314  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 283.8  2.0    0  0.00   68.  1008.     2 NAD-SFC NoSubs
 9 11 10 314  8    4.2 -9.000 -9.000 -9.000   34. -999. -99999.0  0.2235  0.72  0.39  0.00   0.0  15.0 283.5  2.0    0  0.00   69.  1009.     2 NAD-SFC NoSubs
 9 11 10 314  9   51.3 -9.000 -9.000 -9.000  158. -999. -99999.0  0.2235  0.72  0.27  0.00   0.0  15.0 283.9  2.0    0  0.00   69.  1009.     2 NAD-SFC NoSubs
 9 11 10 314 10   89.9 -9.000 -9.000 -9.000  274. -999. -99999.0  0.2235  0.72  0.22  0.00   0.0  15.0 285.8  2.0    0  0.00   55.  1009.     2 NAD-SFC NoSubs
 9 11 10 314 11  115.0  0.113  1.059  0.010  372.   91.     -1.1  0.2720  0.72  0.21  0.50 302.0  15.0 287.0  2.0    0  0.00   48.  1009.     2 NAD-SFC NoSubs
 9 11 10 314 12  125.6  0.114  1.186  0.009  478.   93.     -1.1  0.2720  0.72  0.20  0.50 316.0  15.0 288.0  2.0    0  0.00   45.  1008.     2 NAD-SFC NoSubs
 9 11 10 314 13  121.3  0.114  1.240  0.009  565.   92.     -1.1  0.2720  0.72  0.21  0.50 326.0  15.0 288.8  2.0    0  0.00   44.  1008.     2 NAD-SFC NoSubs
 9 11 10 314 14  102.3  0.113  1.215  0.008  630.   91.     -1.3  0.2930  0.72  0.22  0.50 352.0  15.0 289.2  2.0    0  0.00   43.  1007.     2 NAD-SFC NoSubs
 9 11 10 314 15   69.2  0.164  1.092  0.008  675.  159.     -5.7  0.2930  0.72  0.24  1.00 346.0  15.0 289.2  2.0    0  0.00   45.  1006.     2 NAD-SFC NoSubs
 9 11 10 314 16   24.6  0.093  0.780  0.008  692.   70.     -3.0  0.2930  0.72  0.33  0.50 340.0  15.0 289.0  2.0    0  0.00   48.  1006.     2 NAD-SFC NoSubs
 9 11 10 314 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.58  0.00   0.0  15.0 288.5  2.0    0  0.00   52.  1006.     2 NAD-SFC NoSubs
 9 11 10 314 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 287.8  2.0    0  0.00   56.  1006.     2 NAD-SFC NoSubs
 9 11 10 314 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 287.2  2.0    0  0.00   59.  1006.     2 NAD-SFC NoSubs
 9 11 10 314 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 286.8  2.0    0  0.00   63.  1006.     2 NAD-SFC NoSubs
 9 11 10 314 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 286.2  2.0    0  0.00   66.  1006.     2 NAD-SFC NoSubs
 9 11 10 314 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 286.0  2.0    0  0.00   68.  1006.     2 NAD-SFC NoSubs
 9 11 10 314 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 285.8  2.0    0  0.00   69.  1006.     2 NAD-SFC NoSubs
 9 11 10 314 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 285.8  2.0    0  0.00   68.  1006.     2 NAD-SFC NoSubs
 9 11 11 315  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 285.8  2.0    0  0.00   67.  1006.     2 NAD-SFC NoSubs
 9 11 11 315  2   -1.5  0.082 -9.000 -9.000 -999.   56.     31.6  0.2160  0.72  1.00  0.50 282.0  15.0 285.6  2.0    0  0.00   66.  1006.     2 NAD-SFC NoSubs
 9 11 11 315  3   -1.5  0.082 -9.000 -9.000 -999.   56.     31.6  0.2160  0.72  1.00  0.50 291.0  15.0 285.6  2.0    0  0.00   66.  1005.     2 NAD-SFC NoSubs
 9 11 11 315  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 285.4  2.0    0  0.00   67.  1005.     2 NAD-SFC NoSubs
 9 11 11 315  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 285.2  2.0    0  0.00   68.  1005.     2 NAD-SFC NoSubs
 9 11 11 315  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 285.1  2.0    0  0.00   69.  1005.     2 NAD-SFC NoSubs
 9 11 11 315  7   -1.5  0.082 -9.000 -9.000 -999.   56.     31.7  0.2160  0.72  1.00  0.50 287.0  15.0 285.0  2.0    0  0.00   70.  1005.     2 NAD-SFC NoSubs
 9 11 11 315  8    3.6  0.073  0.148  0.013   32.   47.     -9.6  0.2720  0.72  0.40  0.50 320.0  15.0 284.9  2.0    0  0.00   71.  1005.     2 NAD-SFC NoSubs
 9 11 11 315  9   50.4  0.103  0.625  0.012  173.   79.     -1.9  0.2940  0.72  0.27  0.50   1.0  15.0 285.0  2.0    0  0.00   72.  1005.     2 NAD-SFC NoSubs
 9 11 11 315 10   88.9  0.169  0.888  0.011  282.  166.     -4.8  0.2930  0.72  0.22  1.00 332.0  15.0 286.5  2.0    0  0.00   65.  1005.     2 NAD-SFC NoSubs
 9 11 11 315 11  114.0  0.171  1.061  0.010  375.  170.     -4.0  0.2720  0.72  0.21  1.00 323.0  15.0 287.5  2.0    0  0.00   63.  1005.     2 NAD-SFC NoSubs
 9 11 11 315 12  124.6  0.114  1.193  0.010  488.   93.     -1.1  0.2720  0.72  0.20  0.50 310.0  15.0 288.5  2.0    0  0.00   60.  1004.     2 NAD-SFC NoSubs
 9 11 11 315 13  120.4 -9.000 -9.000 -9.000  583. -999. -99999.0  0.2235  0.72  0.21  0.00   0.0  15.0 289.2  2.0    0  0.00   59.  1003.     2 NAD-SFC NoSubs
 9 11 11 315 14  101.5 -9.000 -9.000 -9.000  652. -999. -99999.0  0.2235  0.72  0.22  0.00   0.0  15.0 289.8  2.0    0  0.00   57.  1003.     2 NAD-SFC NoSubs
 9 11 11 315 15   68.5 -9.000 -9.000 -9.000  693. -999. -99999.0  0.2235  0.72  0.24  0.00   0.0  15.0 289.9  2.0    0  0.00   58.  1002.     2 NAD-SFC NoSubs
 9 11 11 315 16   24.5  0.083  0.787  0.009  710.   58.     -2.1  0.1750  0.72  0.33  0.50 256.0  15.0 291.2  2.0    0  0.00   60.  1001.     2 NAD-SFC NoSubs
 9 11 11 315 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.59  0.00   0.0  15.0 290.8  2.0    0  0.00   64.  1001.     2 NAD-SFC NoSubs
 9 11 11 315 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 290.0  2.0    0  0.00   68.  1001.     2 NAD-SFC NoSubs
 9 11 11 315 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 289.2  2.0    0  0.00   73.  1001.     2 NAD-SFC NoSubs
 9 11 11 315 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 288.9  2.0    0  0.00   76.  1002.     2 NAD-SFC NoSubs
 9 11 11 315 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 288.6  2.0    0  0.00   77.  1002.     2 NAD-SFC NoSubs
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 9 11 11 315 22   -4.0  0.102 -9.000 -9.000 -999.   78.    23.7  0.2930  0.72  1.00  1.00  331.0  15.0  288.4  2.0   0  0.00   78.  1002.    3 NAD-SFC NoSubs
 9 11 11 315 23  -37.1  0.354 -9.000 -9.000 -999.  506.   107.2  0.2930  0.72  1.00  3.60  336.0  15.0  287.8  2.0   0  0.00   83.  1002.    3 NAD-SFC NoSubs
 9 11 11 315 24  -37.2  0.354 -9.000 -9.000 -999.  506.   106.9  0.2930  0.72  1.00  3.60  336.0  15.0  286.9  2.0   0  0.00   92.  1002.    3 NAD-SFC NoSubs
 9 11 12 316  1  -31.8  0.303 -9.000 -9.000 -999.  402.    78.1  0.2930  0.72  1.00  3.10  337.0  15.0  286.6  2.0   0  0.00   95.  1002.    3 NAD-SFC NoSubs
 9 11 12 316  2  -30.7  0.303 -9.000 -9.000 -999.  401.    81.2  0.2930  0.72  1.00  3.10  330.0  15.0  286.4  2.0   0  0.00   96.  1002.    4 NAD-SFC NoSubs
 9 11 12 316  3  -23.8  0.247 -9.000 -9.000 -999.  295.    56.5  0.2720  0.72  1.00  2.60  317.0  15.0  286.2  2.0   0  0.00   96.  1002.    5 NAD-SFC NoSubs
 9 11 12 316  4  -18.6  0.249 -9.000 -9.000 -999.  297.    73.6  0.2720  0.72  1.00  2.60  314.0  15.0  286.0  2.0   0  0.00   97.  1002.    8 NAD-SFC NoSubs
 9 11 12 316  5  -13.8  0.250 -9.000 -9.000 -999.  301.   101.5  0.2720  0.72  1.00  2.60  302.0  15.0  285.8  2.0   0  0.25   99.  1002.   10 NAD-SFC NoSubs
 9 11 12 316  6  -13.0  0.235 -9.000 -9.000 -999.  273.    89.3  0.2160  0.72  1.00  2.60  297.0  15.0  285.8  2.0   0  0.25   99.  1002.   10 NAD-SFC NoSubs
 9 11 12 316  7  -15.6  0.282 -9.000 -9.000 -999.  360.   128.9  0.2160  0.72  1.00  3.10  296.0  15.0  285.8  2.0   0  0.25   99.  1002.   10 NAD-SFC NoSubs
 9 11 12 316  8    7.0  0.302  0.308  0.005  149.  399.  -354.3  0.2160  0.72  0.40  3.10  299.0  15.0  285.9  2.0   0  0.25   96.  1002.    5 NAD-SFC NoSubs
 9 11 12 316  9   51.3  0.394  0.782  0.005  333.  593.  -106.5  0.2720  0.72  0.27  3.60  309.0  15.0  286.0  2.0   0  0.00   92.  1003.    4 NAD-SFC NoSubs
 9 11 12 316 10   88.3  0.452  1.060  0.005  483.  730.   -93.8  0.2720  0.72  0.23  4.10  324.0  15.0  286.1  2.0   0  0.00   87.  1003.    4 NAD-SFC NoSubs
 9 11 12 316 11  113.3  0.414  1.249  0.005  615.  642.   -56.2  0.2720  0.72  0.21  3.60  324.0  15.0  286.4  2.0   0  0.00   83.  1003.    3 NAD-SFC NoSubs
 9 11 12 316 12  123.6  0.372  1.390  0.005  777.  547.   -37.3  0.2720  0.72  0.21  3.10  316.0  15.0  286.8  2.0   0  0.00   80.  1002.    3 NAD-SFC NoSubs
 9 11 12 316 13  119.5  0.326  1.457  0.006  925.  447.   -25.8  0.2720  0.72  0.21  2.60  328.0  15.0  287.6  2.0   0  0.00   76.  1001.    3 NAD-SFC NoSubs
 9 11 12 316 14  100.9  0.326  1.420  0.006 1015.  447.   -30.7  0.2930  0.72  0.22  2.60  335.0  15.0  288.5  2.0   0  0.00   70.  1001.    3 NAD-SFC NoSubs
 9 11 12 316 15   68.4  0.316  1.267  0.007 1062.  426.   -41.1  0.2930  0.72  0.25  2.60  341.0  15.0  288.9  2.0   0  0.00   67.  1000.    3 NAD-SFC NoSubs
 9 11 12 316 16   22.9  0.292  0.885  0.007 1077.  379.   -97.0  0.2930  0.72  0.33  2.60  342.0  15.0  289.0  2.0   0  0.00   65.  1000.    2 NAD-SFC NoSubs
 9 11 12 316 17  -26.8  0.298 -9.000 -9.000 -999.  390.    87.6  0.2720  0.72  0.59  3.10  321.0  15.0  288.5  2.0   0  0.00   67.  1000.    2 NAD-SFC NoSubs
 9 11 12 316 18  -42.7  0.397 -9.000 -9.000 -999.  600.   130.6  0.2720  0.72  1.00  4.10  318.0  15.0  286.9  2.0   0  0.00   70.  1000.    2 NAD-SFC NoSubs
 9 11 12 316 19  -43.0  0.397 -9.000 -9.000 -999.  600.   129.8  0.2720  0.72  1.00  4.10  328.0  15.0  285.2  2.0   0  0.00   73.  1001.    2 NAD-SFC NoSubs
 9 11 12 316 20  -37.5  0.354 -9.000 -9.000 -999.  508.   105.9  0.2930  0.72  1.00  3.60  330.0  15.0  284.4  2.0   0  0.00   74.  1001.    3 NAD-SFC NoSubs
 9 11 12 316 21  -31.4  0.296 -9.000 -9.000 -999.  389.    74.0  0.2720  0.72  1.00  3.10  327.0  15.0  283.9  2.0   0  0.00   76.  1001.    3 NAD-SFC NoSubs
 9 11 12 316 22  -15.9  0.195 -9.000 -9.000 -999.  212.    41.7  0.2720  0.72  1.00  2.10  321.0  15.0  283.2  2.0   0  0.00   78.  1001.    3 NAD-SFC NoSubs
 9 11 12 316 23  -14.3  0.183 -9.000 -9.000 -999.  188.    38.1  0.2160  0.72  1.00  2.10  298.0  15.0  282.8  2.0   0  0.00   79.  1001.    3 NAD-SFC NoSubs
 9 11 12 316 24  -14.3  0.183 -9.000 -9.000 -999.  188.    38.0  0.2160  0.72  1.00  2.10  288.0  15.0  282.4  2.0   0  0.00   80.  1001.    3 NAD-SFC NoSubs
 9 11 13 317  1  -22.4  0.230 -9.000 -9.000 -999.  265.    48.8  0.2160  0.72  1.00  2.60  297.0  15.0  282.0  2.0   0  0.00   81.  1001.    3 NAD-SFC NoSubs
 9 11 13 317  2  -25.0  0.246 -9.000 -9.000 -999.  293.    53.2  0.2720  0.72  1.00  2.60  312.0  15.0  281.5  2.0   0  0.00   83.  1002.    3 NAD-SFC NoSubs
 9 11 13 317  3  -16.0  0.195 -9.000 -9.000 -999.  208.    41.5  0.2720  0.72  1.00  2.10  315.0  15.0  280.9  2.0   0  0.00   86.  1002.    3 NAD-SFC NoSubs
 9 11 13 317  4  -16.0  0.195 -9.000 -9.000 -999.  207.    41.4  0.2720  0.72  1.00  2.10  311.0  15.0  280.4  2.0   0  0.00   90.  1002.    3 NAD-SFC NoSubs
 9 11 13 317  5  -16.1  0.195 -9.000 -9.000 -999.  207.    41.4  0.2720  0.72  1.00  2.10  308.0  15.0  279.9  2.0   0  0.00   92.  1003.    3 NAD-SFC NoSubs
 9 11 13 317  6  -14.5  0.183 -9.000 -9.000 -999.  188.    37.8  0.2160  0.72  1.00  2.10  294.0  15.0  279.5  2.0   0  0.00   92.  1004.    3 NAD-SFC NoSubs
 9 11 13 317  7  -14.5  0.183 -9.000 -9.000 -999.  187.    37.8  0.2160  0.72  1.00  2.10  293.0  15.0  279.2  2.0   0  0.00   90.  1004.    3 NAD-SFC NoSubs
 9 11 13 317  8    2.2  0.205  0.128  0.006   33.  223.  -344.7  0.2160  0.72  0.41  2.10  294.0  15.0  279.0  2.0   0  0.00   87.  1005.    3 NAD-SFC NoSubs
 9 11 13 317  9   48.6  0.399  0.673  0.005  224.  605.  -117.4  0.2930  0.72  0.27  3.60  343.0  15.0  281.0  2.0   0  0.00   67.  1005.    3 NAD-SFC NoSubs
 9 11 13 317 10   86.6  0.322  0.968  0.005  376.  441.   -34.5  0.2930  0.72  0.23  2.60  339.0  15.0  282.4  2.0   0  0.00   58.  1006.    3 NAD-SFC NoSubs
 9 11 13 317 11  110.7  0.221  1.193  0.005  550.  255.    -8.7  0.2720  0.72  0.21  1.50  323.0  15.0  283.4  2.0   0  0.00   54.  1005.    2 NAD-SFC NoSubs
 9 11 13 317 12  121.3  0.223  1.364  0.005  751.  253.    -8.2  0.2720  0.72  0.21  1.50  300.0  15.0  284.4  2.0   0  0.00   50.  1005.    2 NAD-SFC NoSubs
 9 11 13 317 13  117.1  0.222  1.475  0.007  982.  252.    -8.4  0.2720  0.72  0.21  1.50  303.0  15.0  285.2  2.0   0  0.00   44.  1004.    2 NAD-SFC NoSubs
 9 11 13 317 14   98.3  0.275  1.418  0.007 1039.  345.   -18.9  0.2720  0.72  0.22  2.10  301.0  15.0  286.0  2.0   0  0.00   39.  1004.    2 NAD-SFC NoSubs
 9 11 13 317 15   65.5  0.309  1.253  0.007 1075.  413.   -40.5  0.2720  0.72  0.25  2.60  315.0  15.0  286.2  2.0   0  0.00   36.  1003.    2 NAD-SFC NoSubs
 9 11 13 317 16   21.3  0.291  0.865  0.007 1086.  377.  -103.3  0.2930  0.72  0.33  2.60  334.0  15.0  286.2  2.0   0  0.00   36.  1003.    2 NAD-SFC NoSubs
 9 11 13 317 17  -15.6  0.201 -9.000 -9.000 -999.  219.    46.4  0.2930  0.72  0.60  2.10  350.0  15.0  285.6  2.0   0  0.00   42.  1003.    2 NAD-SFC NoSubs
 9 11 13 317 18   -8.4  0.140 -9.000 -9.000 -999.  127.    29.2  0.2940  0.72  1.00  1.50    7.0  15.0  284.8  2.0   0  0.00   45.  1004.    2 NAD-SFC NoSubs
 9 11 13 317 19   -1.5  0.082 -9.000 -9.000 -999.   57.    31.6  0.2090  0.72  1.00  0.50   63.0  15.0  283.8  2.0   0  0.00   50.  1004.    2 NAD-SFC NoSubs
 9 11 13 317 20   -1.5  0.081 -9.000 -9.000 -999.   55.    31.5  0.1970  0.72  1.00  0.50  147.0  15.0  282.5  2.0   0  0.00   57.  1005.    2 NAD-SFC NoSubs
 9 11 13 317 21   -7.1  0.126 -9.000 -9.000 -999.  107.    25.3  0.1970  0.72  1.00  1.50  149.0  15.0  281.4  2.0   0  0.00   63.  1005.    2 NAD-SFC NoSubs
 9 11 13 317 22   -7.1  0.126 -9.000 -9.000 -999.  107.    25.3  0.1970  0.72  1.00  1.50  142.0  15.0  280.6  2.0   0  0.00   66.  1006.    2 NAD-SFC NoSubs
 9 11 13 317 23   -7.1  0.126 -9.000 -9.000 -999.  108.    25.3  0.1970  0.72  1.00  1.50  134.0  15.0  280.0  2.0   0  0.00   68.  1006.    2 NAD-SFC NoSubs
 9 11 13 317 24  -14.1  0.178 -9.000 -9.000 -999.  180.    36.0  0.1970  0.72  1.00  2.10  128.0  15.0  279.5  2.0   0  0.00   70.  1006.    2 NAD-SFC NoSubs
 9 11 14 318  1  -22.0  0.225 -9.000 -9.000 -999.  255.    46.1  0.1970  0.72  1.00  2.60  135.0  15.0  279.1  2.0   0  0.00   71.  1007.    2 NAD-SFC NoSubs
 9 11 14 318  2  -14.1  0.178 -9.000 -9.000 -999.  181.    35.9  0.1970  0.72  1.00  2.10  132.0  15.0  278.8  2.0   0  0.00   71.  1007.    2 NAD-SFC NoSubs
 9 11 14 318  3  -14.1  0.178 -9.000 -9.000 -999.  180.    35.9  0.1970  0.72  1.00  2.10  127.0  15.0  278.4  2.0   0  0.00   72.  1007.    2 NAD-SFC NoSubs
 9 11 14 318  4   -7.1  0.126 -9.000 -9.000 -999.  108.    25.5  0.1970  0.72  1.00  1.50  143.0  15.0  278.1  2.0   0  0.00   73.  1008.    3 NAD-SFC NoSubs
 9 11 14 318  5   -7.1  0.126 -9.000 -9.000 -999.  107.    25.5  0.1970  0.72  1.00  1.50  140.0  15.0  277.8  2.0   0  0.00   74.  1008.    3 NAD-SFC NoSubs
 9 11 14 318  6   -3.6  0.096 -9.000 -9.000 -999.   71.    22.1  0.1970  0.72  1.00  1.00  138.0  15.0  277.5  2.0   0  0.00   76.  1009.    3 NAD-SFC NoSubs
 9 11 14 318  7   -1.5  0.081 -9.000 -9.000 -999.   55.    31.5  0.1970  0.72  1.00  0.50  142.0  15.0  277.2  2.0   0  0.00   79.  1009.    3 NAD-SFC NoSubs
 9 11 14 318  8   -0.1  0.043 -9.000 -9.000 -999.   22.    51.7  0.1970  0.72  0.41  0.50  135.0  15.0  277.1  2.0   0  0.00   80.  1010.    2 NAD-SFC NoSubs
 9 11 14 318  9   45.9 -9.000 -9.000 -9.000  125. -999. -99999.0  0.2235  0.72  0.27  0.00    0.0  15.0  279.5  2.0   0  0.00   72.  1010.    2 NAD-SFC NoSubs
 9 11 14 318 10   84.3 -9.000 -9.000 -9.000  319. -999. -99999.0  0.2235  0.72  0.23  0.00    0.0  15.0  281.6  2.0   0  0.00   65.  1010.    2 NAD-SFC NoSubs
 9 11 14 318 11  109.6 -9.000 -9.000 -9.000  635. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  283.5  2.0   0  0.00   57.  1010.    2 NAD-SFC NoSubs
 9 11 14 318 12  120.3 -9.000 -9.000 -9.000  785. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  284.9  2.0   0  0.00   52.  1009.    2 NAD-SFC NoSubs
 9 11 14 318 13  116.3 -9.000 -9.000 -9.000  898. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  286.0  2.0   0  0.00   48.  1009.    2 NAD-SFC NoSubs
 9 11 14 318 14   97.5  0.110  1.384  0.009  978.  88.    -1.2  0.2720  0.72  0.22  0.50  300.0  15.0  286.8  2.0   0  0.00   46.  1008.    2 NAD-SFC NoSubs
 9 11 14 318 15   64.8  0.160  1.219  0.009 1006.  153.   -5.7  0.2720  0.72  0.25  1.00  318.0  15.0  287.1  2.0   0  0.00   45.  1008.    2 NAD-SFC NoSubs
 9 11 14 318 16   20.7  0.189  0.837  0.009 1015.  197.   -29.3  0.2930  0.72  0.34  1.50  353.0  15.0  287.0  2.0   0  0.00   46.  1007.    2 NAD-SFC NoSubs
 9 11 14 318 17  -15.8  0.201 -9.000 -9.000 -999.  216.    46.3  0.2940  0.72  0.61  2.10   12.0  15.0  286.4  2.0   0  0.00   52.  1007.    2 NAD-SFC NoSubs
 9 11 14 318 18  -24.1  0.239 -9.000 -9.000 -999.  280.    50.9  0.2470  0.72  1.00  2.60   31.0  15.0  285.2  2.0   0  0.00   57.  1008.    2 NAD-SFC NoSubs
 9 11 14 318 19   -7.3  0.128 -9.000 -9.000 -999.  116.    25.9  0.2090  0.72  1.00  1.50   64.0  15.0  284.2  2.0   0  0.00   62.  1009.    2 NAD-SFC NoSubs
 9 11 14 318 20   -3.7  0.097 -9.000 -9.000 -999.   73.    22.4  0.2130  0.72  1.00  1.00  103.0  15.0  283.2  2.0   0  0.00   67.  1010.    2 NAD-SFC NoSubs
 9 11 14 318 21   -3.6  0.097 -9.000 -9.000 -999.   72.    22.4  0.2130  0.72  1.00  1.00  108.0  15.0  282.2  2.0   0  0.00   72.  1010.    3 NAD-SFC NoSubs
 9 11 14 318 22   -3.6  0.097 -9.000 -9.000 -999.   72.    22.4  0.2130  0.72  1.00  1.00  111.0  15.0  281.4  2.0   0  0.00   76.  1011.    3 NAD-SFC NoSubs
 9 11 14 318 23   -1.6  0.082 -9.000 -9.000 -999.   56.    31.8  0.2130  0.72  1.00  0.50  111.0  15.0  280.8  2.0   0  0.00   80.  1012.    2 NAD-SFC NoSubs
 9 11 14 318 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  279.9  2.0   0  0.00   84.  1012.    2 NAD-SFC NoSubs
 9 11 15 319  1   -1.5  0.080 -9.000 -9.000 -999.   55.    31.4  0.1750  0.72  1.00  0.50  264.0  15.0  279.6  2.0   0  0.00   86.  1012.    2 NAD-SFC NoSubs
 9 11 15 319  2   -6.8  0.123 -9.000 -9.000 -999.  103.    24.4  0.1750  0.72  1.00  1.50  258.0  15.0  279.5  2.0   0  0.00   86.  1012.    2 NAD-SFC NoSubs
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 9 11 15 319  3  -14.8  0.183 -9.000 -9.000 -999.  187.    37.2  0.2160  0.72  1.00  2.10  282.0  15.0  279.4  2.0   0  0.00   85.  1013.    2 NAD-SFC NoSubs
 9 11 15 319  4  -23.0  0.230 -9.000 -9.000 -999.  265.    47.8  0.2160  0.72  1.00  2.60  281.0  15.0  279.2  2.0   0  0.00   82.  1013.    2 NAD-SFC NoSubs
 9 11 15 319  5  -23.1  0.230 -9.000 -9.000 -999.  265.    47.7  0.2160  0.72  1.00  2.60  273.0  15.0  278.8  2.0   0  0.00   78.  1013.    2 NAD-SFC NoSubs
 9 11 15 319  6  -29.5  0.263 -9.000 -9.000 -999.  323.    55.6  0.1750  0.72  1.00  3.10  267.0  15.0  278.5  2.0   0  0.00   73.  1014.    2 NAD-SFC NoSubs
 9 11 15 319  7  -31.2  0.278 -9.000 -9.000 -999.  351.    62.0  0.2160  0.72  1.00  3.10  285.0  15.0  278.2  2.0   0  0.00   68.  1014.    2 NAD-SFC NoSubs
 9 11 15 319  8   -1.9  0.245 -9.000 -9.000 -999.  291.   678.2  0.2160  0.72  0.42  2.60  292.0  15.0  278.1  2.0   0  0.00   65.  1014.    2 NAD-SFC NoSubs
 9 11 15 319  9   44.9  0.300  0.555  0.007  138.  395.   -54.6  0.2720  0.72  0.28  2.60  306.0  15.0  279.9  2.0   0  0.00   51.  1015.    2 NAD-SFC NoSubs
 9 11 15 319 10   83.2  0.214  0.870  0.007  286.  241.   -10.7  0.2720  0.72  0.23  1.50  314.0  15.0  281.6  2.0   0  0.00   47.  1015.    2 NAD-SFC NoSubs
 9 11 15 319 11  108.5  0.106  1.099  0.007  443.   90.    -1.0  0.2160  0.72  0.21  0.50  298.0  15.0  283.5  2.0   0  0.00   44.  1015.    2 NAD-SFC NoSubs
 9 11 15 319 12  119.3  0.172  1.253  0.008  596.  172.    -3.9  0.2720  0.72  0.21  1.00  326.0  15.0  285.0  2.0   0  0.00   40.  1014.    2 NAD-SFC NoSubs
 9 11 15 319 13  115.3  0.226  1.307  0.009  700.  257.    -9.0  0.2930  0.72  0.21  1.50  347.0  15.0  286.1  2.0   0  0.00   39.  1013.    2 NAD-SFC NoSubs
 9 11 15 319 14   96.7  0.278  1.270  0.009  766.  353.   -20.2  0.2930  0.72  0.22  2.10  354.0  15.0  286.9  2.0   0  0.00   39.  1013.    2 NAD-SFC NoSubs
 9 11 15 319 15   64.0 -9.000 -9.000 -9.000  807. -999. -99999.0  0.2235  0.72  0.25  0.00    0.0  15.0  287.2  2.0   0  0.00   40.  1012.    2 NAD-SFC NoSubs
 9 11 15 319 16   20.0  0.290  0.768  0.009  818.  375.  -110.0  0.2940  0.72  0.34  2.60    6.0  15.0  287.0  2.0   0  0.00   45.  1012.    2 NAD-SFC NoSubs
 9 11 15 319 17  -15.9  0.201 -9.000 -9.000 -999.  219.    45.9  0.2940  0.72  0.61  2.10   28.0  15.0  286.2  2.0   0  0.00   49.  1012.    2 NAD-SFC NoSubs
 9 11 15 319 18   -8.5  0.140 -9.000 -9.000 -999.  127.    29.2  0.2940  0.72  1.00  1.50   29.0  15.0  285.2  2.0   0  0.00   52.  1012.    2 NAD-SFC NoSubs
 9 11 15 319 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  284.2  2.0   0  0.00   57.  1012.    2 NAD-SFC NoSubs
 9 11 15 319 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  283.0  2.0   0  0.00   63.  1013.    2 NAD-SFC NoSubs
 9 11 15 319 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  282.1  2.0   0  0.00   68.  1013.    2 NAD-SFC NoSubs
 9 11 15 319 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  281.2  2.0   0  0.00   72.  1013.    2 NAD-SFC NoSubs
 9 11 15 319 23   -1.7  0.085 -9.000 -9.000 -999.   60.    32.4  0.2940  0.72  1.00  0.50   26.0  15.0  280.8  2.0   0  0.00   74.  1013.    2 NAD-SFC NoSubs
 9 11 15 319 24   -1.7  0.085 -9.000 -9.000 -999.   60.    32.4  0.2930  0.72  1.00  0.50  353.0  15.0  280.2  2.0   0  0.00   76.  1013.    2 NAD-SFC NoSubs
 9 11 16 320  1   -4.1  0.102 -9.000 -9.000 -999.   78.    23.3  0.2720  0.72  1.00  1.00  323.0  15.0  279.8  2.0   0  0.00   78.  1013.    2 NAD-SFC NoSubs
 9 11 16 320  2   -8.2  0.137 -9.000 -9.000 -999.  122.    28.1  0.2720  0.72  1.00  1.50  318.0  15.0  279.2  2.0   0  0.00   79.  1013.    2 NAD-SFC NoSubs
 9 11 16 320  3   -8.2  0.137 -9.000 -9.000 -999.  122.    28.1  0.2720  0.72  1.00  1.50  317.0  15.0  279.0  2.0   0  0.00   80.  1013.    2 NAD-SFC NoSubs
 9 11 16 320  4  -16.4  0.195 -9.000 -9.000 -999.  207.    40.7  0.2720  0.72  1.00  2.10  319.0  15.0  278.8  2.0   0  0.00   80.  1013.    2 NAD-SFC NoSubs
 9 11 16 320  5   -8.3  0.137 -9.000 -9.000 -999.  122.    28.1  0.2720  0.72  1.00  1.50  317.0  15.0  278.4  2.0   0  0.00   81.  1013.    2 NAD-SFC NoSubs
 9 11 16 320  6   -3.8  0.098 -9.000 -9.000 -999.   74.    22.5  0.2160  0.72  1.00  1.00  296.0  15.0  278.0  2.0   0  0.00   82.  1014.    2 NAD-SFC NoSubs
 9 11 16 320  7   -1.5  0.081 -9.000 -9.000 -999.   55.    31.5  0.1750  0.72  1.00  0.50  269.0  15.0  277.6  2.0   0  0.00   83.  1014.    2 NAD-SFC NoSubs
 9 11 16 320  8   -0.3  0.043 -9.000 -9.000 -999.   22.    25.5  0.2160  0.72  0.42  0.50  276.0  15.0  277.5  2.0   0  0.00   83.  1014.    2 NAD-SFC NoSubs
 9 11 16 320  9   43.8  0.099  0.486  0.013   95.   75.    -2.0  0.2720  0.72  0.28  0.50  310.0  15.0  279.9  2.0   0  0.00   68.  1014.    2 NAD-SFC NoSubs
 9 11 16 320 10   82.2  0.108  0.795  0.011  221.   85.    -1.4  0.2720  0.72  0.23  0.50  314.0  15.0  282.0  2.0   0  0.00   60.  1013.    2 NAD-SFC NoSubs
 9 11 16 320 11  107.6  0.112  1.009  0.010  345.   90.    -1.2  0.2720  0.72  0.21  0.50  326.0  15.0  284.2  2.0   0  0.00   54.  1013.    2 NAD-SFC NoSubs
 9 11 16 320 12  118.5  0.115  1.144  0.009  456.   94.    -1.2  0.2930  0.72  0.21  0.50  336.0  15.0  286.0  2.0   0  0.00   50.  1012.    2 NAD-SFC NoSubs
 9 11 16 320 13  114.8  0.174  1.206  0.009  551.  175.    -4.2  0.2930  0.72  0.21  1.00  344.0  15.0  287.8  2.0   0  0.00   43.  1011.    2 NAD-SFC NoSubs
 9 11 16 320 14   96.3  0.221  1.183  0.008  620.  250.   -10.1  0.2930  0.72  0.22  1.50  349.0  15.0  288.9  2.0   0  0.00   37.  1010.    2 NAD-SFC NoSubs
 9 11 16 320 15   63.7  0.211  1.054  0.008  662.  233.   -13.3  0.2930  0.72  0.25  1.50  356.0  15.0  289.2  2.0   0  0.00   36.  1010.    2 NAD-SFC NoSubs
 9 11 16 320 16   20.1  0.244  0.724  0.008  678.  289.   -65.0  0.2940  0.72  0.34  2.10    6.0  15.0  289.8  2.0   0  0.00   37.  1009.    2 NAD-SFC NoSubs
 9 11 16 320 17  -15.8  0.201 -9.000 -9.000 -999.  217.    46.1  0.2940  0.72  0.62  2.10   28.0  15.0  289.0  2.0   0  0.00   40.  1009.    2 NAD-SFC NoSubs
 9 11 16 320 18   -8.4  0.140 -9.000 -9.000 -999.  126.    29.4  0.2940  0.72  1.00  1.50   22.0  15.0  287.8  2.0   0  0.00   45.  1009.    2 NAD-SFC NoSubs
 9 11 16 320 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  286.4  2.0   0  0.00   50.  1009.    2 NAD-SFC NoSubs
 9 11 16 320 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  285.0  2.0   0  0.00   56.  1009.    2 NAD-SFC NoSubs
 9 11 16 320 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  283.9  2.0   0  0.00   62.  1009.    2 NAD-SFC NoSubs
 9 11 16 320 22   -1.6  0.083 -9.000 -9.000 -999.   58.    32.0  0.2470  0.72  1.00  0.50   52.0  15.0  283.1  2.0   0  0.00   65.  1009.    2 NAD-SFC NoSubs
 9 11 16 320 23   -1.6  0.083 -9.000 -9.000 -999.   58.    32.0  0.2470  0.72  1.00  0.50   51.0  15.0  282.6  2.0   0  0.00   66.  1009.    2 NAD-SFC NoSubs
 9 11 16 320 24   -1.7  0.085 -9.000 -9.000 -999.   60.    32.4  0.2940  0.72  1.00  0.50   12.0  15.0  282.1  2.0   0  0.00   67.  1008.    2 NAD-SFC NoSubs
 9 11 17 321  1   -1.7  0.085 -9.000 -9.000 -999.   60.    32.4  0.2930  0.72  1.00  0.50  352.0  15.0  281.8  2.0   0  0.00   68.  1008.    2 NAD-SFC NoSubs
 9 11 17 321  2   -4.2  0.103 -9.000 -9.000 -999.   79.    23.6  0.2930  0.72  1.00  1.00  335.0  15.0  281.2  2.0   0  0.00   68.  1008.    2 NAD-SFC NoSubs
 9 11 17 321  3   -4.2  0.103 -9.000 -9.000 -999.   79.    23.6  0.2930  0.72  1.00  1.00  353.0  15.0  281.0  2.0   0  0.00   68.  1008.    2 NAD-SFC NoSubs
 9 11 17 321  4   -4.2  0.103 -9.000 -9.000 -999.   80.    23.7  0.2940  0.72  1.00  1.00   15.0  15.0  280.6  2.0   0  0.00   68.  1008.    2 NAD-SFC NoSubs
 9 11 17 321  5   -1.7  0.085 -9.000 -9.000 -999.   60.    32.4  0.2940  0.72  1.00  0.50   19.0  15.0  280.2  2.0   0  0.00   70.  1008.    2 NAD-SFC NoSubs
 9 11 17 321  6   -1.6  0.084 -9.000 -9.000 -999.   58.    32.1  0.2470  0.72  1.00  0.50   43.0  15.0  279.8  2.0   0  0.00   71.  1008.    2 NAD-SFC NoSubs
 9 11 17 321  7   -1.6  0.084 -9.000 -9.000 -999.   58.    32.1  0.2470  0.72  1.00  0.50   56.0  15.0  279.2  2.0   0  0.00   72.  1008.    2 NAD-SFC NoSubs
 9 11 17 321  8   -0.3  0.044 -9.000 -9.000 -999.   22.    23.4  0.2090  0.72  0.43  0.50   76.0  15.0  279.1  2.0   0  0.00   73.  1008.    2 NAD-SFC NoSubs
 9 11 17 321  9   42.9 -9.000 -9.000 -9.000   85. -999. -99999.0  0.2235  0.72  0.28  0.00    0.0  15.0  281.0  2.0   0  0.00   68.  1008.    2 NAD-SFC NoSubs
 9 11 17 321 10   81.6 -9.000 -9.000 -9.000  185. -999. -99999.0  0.2235  0.72  0.23  0.00    0.0  15.0  284.5  2.0   0  0.00   50.  1007.    2 NAD-SFC NoSubs
 9 11 17 321 11  107.1  0.112  0.977  0.009  313.   90.    -1.2  0.2720  0.72  0.21  0.50  321.0  15.0  286.5  2.0   0  0.00   46.  1007.    2 NAD-SFC NoSubs
 9 11 17 321 12  118.1  0.172  1.124  0.008  432.  172.    -3.9  0.2720  0.72  0.21  1.00  326.0  15.0  288.2  2.0   0  0.00   43.  1006.    2 NAD-SFC NoSubs
 9 11 17 321 13  114.4  0.174  1.203  0.008  545.  175.    -4.2  0.2930  0.72  0.21  1.00  333.0  15.0  289.8  2.0   0  0.00   40.  1005.    2 NAD-SFC NoSubs
 9 11 17 321 14   96.0  0.168  1.188  0.008  625.  165.    -4.4  0.2720  0.72  0.22  1.00  326.0  15.0  290.8  2.0   0  0.00   36.  1004.    2 NAD-SFC NoSubs
 9 11 17 321 15   63.6  0.211  1.063  0.008  675.  233.   -13.3  0.2930  0.72  0.25  1.50  352.0  15.0  291.2  2.0   0  0.00   33.  1003.    2 NAD-SFC NoSubs
 9 11 17 321 16   19.9  0.189  0.727  0.008  691.  197.   -30.2  0.2940  0.72  0.34  1.50   10.0  15.0  291.0  2.0   0  0.00   37.  1003.    2 NAD-SFC NoSubs
 9 11 17 321 17   -3.7  0.100 -9.000 -9.000 -999.   79.    23.8  0.2940  0.72  0.62  1.00   18.0  15.0  290.0  2.0   0  0.00   42.  1003.    2 NAD-SFC NoSubs
 9 11 17 321 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  288.5  2.0   0  0.00   48.  1003.    2 NAD-SFC NoSubs
 9 11 17 321 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  287.0  2.0   0  0.00   55.  1003.    2 NAD-SFC NoSubs
 9 11 17 321 20   -1.5  0.080 -9.000 -9.000 -999.   54.    31.1  0.1750  0.72  1.00  0.50  247.0  15.0  285.8  2.0   0  0.00   60.  1004.    2 NAD-SFC NoSubs
 9 11 17 321 21   -7.3  0.129 -9.000 -9.000 -999.  111.    26.2  0.2160  0.72  1.00  1.50  273.0  15.0  285.0  2.0   0  0.00   63.  1004.    2 NAD-SFC NoSubs
 9 11 17 321 22   -7.3  0.129 -9.000 -9.000 -999.  111.    26.2  0.2160  0.72  1.00  1.50  270.0  15.0  284.4  2.0   0  0.00   66.  1005.    2 NAD-SFC NoSubs
 9 11 17 321 23   -7.3  0.129 -9.000 -9.000 -999.  111.    26.2  0.2160  0.72  1.00  1.50  279.0  15.0  283.8  2.0   0  0.00   72.  1005.    2 NAD-SFC NoSubs
 9 11 17 321 24   -8.1  0.137 -9.000 -9.000 -999.  122.    28.3  0.2720  0.72  1.00  1.50  303.0  15.0  283.0  2.0   0  0.00   77.  1005.    2 NAD-SFC NoSubs
 9 11 18 322  1  -25.3  0.246 -9.000 -9.000 -999.  292.    52.5  0.2720  0.72  1.00  2.60  321.0  15.0  282.2  2.0   0  0.00   83.  1006.    2 NAD-SFC NoSubs
 9 11 18 322  2  -26.3  0.251 -9.000 -9.000 -999.  302.    54.1  0.2930  0.72  1.00  2.60  335.0  15.0  281.5  2.0   0  0.00   88.  1006.    2 NAD-SFC NoSubs
 9 11 18 322  3  -16.3  0.195 -9.000 -9.000 -999.  208.    40.9  0.2720  0.72  1.00  2.10  316.0  15.0  281.2  2.0   0  0.00   92.  1006.    2 NAD-SFC NoSubs
 9 11 18 322  4   -4.0  0.102 -9.000 -9.000 -999.   82.    23.3  0.2720  0.72  1.00  1.00  308.0  15.0  281.0  2.0   0  0.00   95.  1006.    2 NAD-SFC NoSubs
 9 11 18 322  5   -1.7  0.085 -9.000 -9.000 -999.   59.    32.3  0.2720  0.72  1.00  0.50  326.0  15.0  280.6  2.0   0  0.00   99.  1007.    2 NAD-SFC NoSubs
 9 11 18 322  6   -1.7  0.085 -9.000 -9.000 -999.   60.    32.4  0.2940  0.72  1.00  0.50    6.0  15.0  280.5  2.0   0  0.00  100.  1007.    2 NAD-SFC NoSubs
 9 11 18 322  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  280.5  2.0   0  0.00  100.  1008.    2 NAD-SFC NoSubs
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 9 11 18 322  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 0.43 0.00   0.0 15.0 280.8 2.0 0 0.00 100. 1008.  3 NAD-SFC NoSubs
 9 11 18 322  9   43.1  0.144  0.565  0.011  150.  131.    -6.3 0.2130 0.72 0.28 1.00  94.0 15.0 280.8 2.0 0 0.00 100. 1009.  3 NAD-SFC NoSubs
 9 11 18 322 10   80.8  0.256  0.836  0.009  260.  310.   -18.6 0.2130 0.72 0.23 2.10 103.0 15.0 281.0 2.0 0 0.00 100. 1009.  3 NAD-SFC NoSubs
 9 11 18 322 11  104.9  0.209  1.004  0.008  348.  229.    -7.8 0.2130 0.72 0.21 1.50 115.0 15.0 281.2 2.0 0 0.25 100. 1009.  4 NAD-SFC NoSubs
 9 11 18 322 12  115.2  0.157  1.133  0.007  455.  150.    -3.0 0.1810 0.72 0.21 1.00 150.0 15.0 281.8 2.0 0 0.00  98. 1009.  4 NAD-SFC NoSubs
 9 11 18 322 13  111.3  0.104  1.207  0.006  567.   81.    -1.0 0.1900 0.72 0.21 0.50 198.0 15.0 282.2 2.0 0 0.00  96. 1008.  4 NAD-SFC NoSubs
 9 11 18 322 14   93.4  0.100  1.189  0.006  647.   76.    -1.0 0.1750 0.72 0.22 0.50 258.0 15.0 282.9 2.0 0 0.00  93. 1008.  4 NAD-SFC NoSubs
 9 11 18 322 15   61.7  0.151  1.067  0.006  708.  141.    -5.0 0.2160 0.72 0.25 1.00 272.0 15.0 283.2 2.0 0 0.00  92. 1007.  3 NAD-SFC NoSubs
 9 11 18 322 16   18.6 -9.000 -9.000 -9.000  726. -999. -99999.0 0.2235 0.72 0.34 0.00   0.0 15.0 283.2 2.0 0 0.00  92. 1007.  3 NAD-SFC NoSubs
 9 11 18 322 17   -3.3  0.094 -9.000 -9.000 -999.   69.    22.3 0.2130 0.72 0.63 1.00 107.0 15.0 283.2 2.0 0 0.00  93. 1007.  3 NAD-SFC NoSubs
 9 11 18 322 18   -7.0  0.126 -9.000 -9.000 -999.  107.    25.7 0.1970 0.72 1.00 1.50 135.0 15.0 283.0 2.0 0 0.00  94. 1008.  3 NAD-SFC NoSubs
 9 11 18 322 19  -14.0  0.178 -9.000 -9.000 -999.  181.    36.2 0.1970 0.72 1.00 2.10 146.0 15.0 282.9 2.0 0 0.00  94. 1008.  2 NAD-SFC NoSubs
 9 11 18 322 20  -21.2  0.220 -9.000 -9.000 -999.  247.    45.1 0.1810 0.72 1.00 2.60 162.0 15.0 282.8 2.0 0 0.00  95. 1009.  2 NAD-SFC NoSubs
 9 11 18 322 21  -29.2  0.265 -9.000 -9.000 -999.  328.    57.4 0.1810 0.72 1.00 3.10 173.0 15.0 282.2 2.0 0 0.00  97. 1009.  2 NAD-SFC NoSubs
 9 11 18 322 22  -29.0  0.269 -9.000 -9.000 -999.  334.    60.2 0.1900 0.72 1.00 3.10 198.0 15.0 281.2 2.0 0 0.00 100. 1010.  3 NAD-SFC NoSubs
 9 11 18 322 23  -21.9  0.224 -9.000 -9.000 -999.  255.    46.1 0.1950 0.72 1.00 2.60 213.0 15.0 280.2 2.0 0 0.00 100. 1010.  2 NAD-SFC NoSubs
 9 11 18 322 24  -22.0  0.224 -9.000 -9.000 -999.  254.    46.0 0.1950 0.72 1.00 2.60 215.0 15.0 279.8 2.0 0 0.00 100. 1010.  2 NAD-SFC NoSubs
 9 11 19 323  1  -14.1  0.178 -9.000 -9.000 -999.  180.    35.8 0.1950 0.72 1.00 2.10 217.0 15.0 279.4 2.0 0 0.00 100. 1010.  2 NAD-SFC NoSubs
 9 11 19 323  2   -7.1  0.126 -9.000 -9.000 -999.  108.    25.2 0.1950 0.72 1.00 1.50 237.0 15.0 279.2 2.0 0 0.00 100. 1010.  2 NAD-SFC NoSubs
 9 11 19 323  3   -6.8  0.123 -9.000 -9.000 -999.  103.    24.4 0.1750 0.72 1.00 1.50 246.0 15.0 279.1 2.0 0 0.00  99. 1010.  2 NAD-SFC NoSubs
 9 11 19 323  4   -6.8  0.123 -9.000 -9.000 -999.  103.    24.3 0.1750 0.72 1.00 1.50 245.0 15.0 279.0 2.0 0 0.00  97. 1010.  2 NAD-SFC NoSubs
 9 11 19 323  5   -7.4  0.129 -9.000 -9.000 -999.  111.    26.0 0.2160 0.72 1.00 1.50 272.0 15.0 278.8 2.0 0 0.00  95. 1010.  2 NAD-SFC NoSubs
 9 11 19 323  6  -14.7  0.183 -9.000 -9.000 -999.  187.    37.2 0.2160 0.72 1.00 2.10 288.0 15.0 278.4 2.0 0 0.00  94. 1010.  2 NAD-SFC NoSubs
 9 11 19 323  7   -7.5  0.129 -9.000 -9.000 -999.  112.    25.9 0.2160 0.72 1.00 1.50 297.0 15.0 277.8 2.0 0 0.00  96. 1010.  2 NAD-SFC NoSubs
 9 11 19 323  8   -3.4  0.134 -9.000 -9.000 -999.  118.    64.2 0.2160 0.72 0.44 1.50 299.0 15.0 277.6 2.0 0 0.00  97. 1010.  2 NAD-SFC NoSubs
 9 11 19 323  9   40.3  0.143  0.541  0.009  142.  130.    -6.6 0.2160 0.72 0.28 1.00 294.0 15.0 278.1 2.0 0 0.00  94. 1010.  2 NAD-SFC NoSubs
 9 11 19 323 10   78.3  0.102  0.843  0.009  275.   78.    -1.2 0.2160 0.72 0.23 0.50 276.0 15.0 278.8 2.0 0 0.00  89. 1010.  2 NAD-SFC NoSubs
 9 11 19 323 11  103.7 -9.000 -9.000 -9.000  441. -999. -99999.0 0.2235 0.72 0.21 0.00   0.0 15.0 280.9 2.0 0 0.00  77. 1010.  2 NAD-SFC NoSubs
 9 11 19 323 12  114.8  0.113  1.212  0.013  559.   91.    -1.1 0.2720 0.72 0.21 0.50 323.0 15.0 283.2 2.0 0 0.00  63. 1009.  2 NAD-SFC NoSubs
 9 11 19 323 13  111.1  0.171  1.264  0.014  654.  169.    -4.0 0.2720 0.72 0.21 1.00 323.0 15.0 284.8 2.0 0 0.00  57. 1008.  2 NAD-SFC NoSubs
 9 11 19 323 14   92.8  0.167  1.215  0.014  695.  163.    -4.5 0.2720 0.72 0.22 1.00 327.0 15.0 285.9 2.0 0 0.00  54. 1007.  2 NAD-SFC NoSubs
 9 11 19 323 15   60.6 -9.000 -9.000 -9.000  720. -999. -99999.0 0.2235 0.72 0.25 0.00   0.0 15.0 286.6 2.0 0 0.00  52. 1006.  2 NAD-SFC NoSubs
 9 11 19 323 16   17.1  0.179  0.703  0.014  727.  182.   -30.1 0.2470 0.72 0.35 1.50  32.0 15.0 286.5 2.0 0 0.00  54. 1006.  2 NAD-SFC NoSubs
 9 11 19 323 17  -14.8  0.190 -9.000 -9.000 -999.  199.    41.9 0.2470 0.72 0.63 2.10  46.0 15.0 285.8 2.0 0 0.00  60. 1006.  2 NAD-SFC NoSubs
 9 11 19 323 18   -7.8  0.133 -9.000 -9.000 -999.  118.    27.4 0.2470 0.72 1.00 1.50  42.0 15.0 284.6 2.0 0 0.00  66. 1006.  2 NAD-SFC NoSubs
 9 11 19 323 19   -1.7  0.085 -9.000 -9.000 -999.   60.    32.3 0.2930 0.72 1.00 0.50 355.0 15.0 283.4 2.0 0 0.00  73. 1006.  2 NAD-SFC NoSubs
 9 11 19 323 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 282.5 2.0 0 0.00  78. 1006.  2 NAD-SFC NoSubs
 9 11 19 323 21   -7.8  0.133 -9.000 -9.000 -999.  117.    27.3 0.2470 0.72 1.00 1.50  36.0 15.0 281.8 2.0 0 0.00  83. 1006.  2 NAD-SFC NoSubs
 9 11 19 323 22   -7.3  0.128 -9.000 -9.000 -999.  110.    25.8 0.2090 0.72 1.00 1.50  64.0 15.0 281.1 2.0 0 0.00  86. 1006.  2 NAD-SFC NoSubs
 9 11 19 323 23   -7.3  0.128 -9.000 -9.000 -999.  110.    25.8 0.2090 0.72 1.00 1.50  72.0 15.0 280.8 2.0 0 0.00  87. 1006.  2 NAD-SFC NoSubs
 9 11 19 323 24   -1.6  0.082 -9.000 -9.000 -999.   57.    31.8 0.2090 0.72 1.00 0.50  78.0 15.0 280.4 2.0 0 0.00  87. 1006.  2 NAD-SFC NoSubs
 9 11 20 324  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 280.0 2.0 0 0.00  88. 1006.  2 NAD-SFC NoSubs
 9 11 20 324  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 279.8 2.0 0 0.00  87. 1006.  2 NAD-SFC NoSubs
 9 11 20 324  3   -1.6  0.082 -9.000 -9.000 -999.   56.    31.8 0.2090 0.72 1.00 0.50  62.0 15.0 279.6 2.0 0 0.00  87. 1006.  2 NAD-SFC NoSubs
 9 11 20 324  4   -1.6  0.082 -9.000 -9.000 -999.   56.    31.8 0.2090 0.72 1.00 0.50  82.0 15.0 279.2 2.0 0 0.00  87. 1006.  2 NAD-SFC NoSubs
 9 11 20 324  5   -1.6  0.084 -9.000 -9.000 -999.   58.    32.2 0.2470 0.72 1.00 0.50  59.0 15.0 278.8 2.0 0 0.00  89. 1006.  2 NAD-SFC NoSubs
 9 11 20 324  6   -1.6  0.084 -9.000 -9.000 -999.   58.    32.2 0.2470 0.72 1.00 0.50  36.0 15.0 278.8 2.0 0 0.00  85. 1006.  2 NAD-SFC NoSubs
 9 11 20 324  7   -1.7  0.086 -9.000 -9.000 -999.   60.    32.5 0.2940 0.72 1.00 0.50  29.0 15.0 279.1 2.0 0 0.00  80. 1007.  2 NAD-SFC NoSubs
 9 11 20 324  8   -0.5  0.052 -9.000 -9.000 -999.   28.    23.7 0.2940 0.72 0.44 0.50  28.0 15.0 279.6 2.0 0 0.00  75. 1007.  2 NAD-SFC NoSubs
 9 11 20 324  9   39.5  0.147  0.430  0.010   72.  136.    -7.3 0.2470 0.72 0.29 1.00  30.0 15.0 280.2 2.0 0 0.00  71. 1007.  2 NAD-SFC NoSubs
 9 11 20 324 10   77.8  0.208  0.750  0.009  195.  228.   -10.4 0.2470 0.72 0.23 1.50  45.0 15.0 281.9 2.0 0 0.00  68. 1007.  2 NAD-SFC NoSubs
 9 11 20 324 11  103.5  0.281  0.976  0.007  323.  357.   -19.2 0.2940 0.72 0.21 2.10  22.0 15.0 284.8 2.0 0 0.00  56. 1007.  2 NAD-SFC NoSubs
 9 11 20 324 12  114.7  0.330  1.126  0.006  447.  455.   -28.1 0.2940 0.72 0.21 2.60  12.0 15.0 286.8 2.0 0 0.00  48. 1006.  2 NAD-SFC NoSubs
 9 11 20 324 13  111.3  0.283  1.212  0.006  574.  362.   -18.2 0.2940 0.72 0.21 2.10  15.0 15.0 288.8 2.0 0 0.00  42. 1006.  2 NAD-SFC NoSubs
 9 11 20 324 14   93.1  0.278  1.199  0.006  664.  352.   -20.7 0.2940 0.72 0.22 2.10   6.0 15.0 289.8 2.0 0 0.00  38. 1005.  2 NAD-SFC NoSubs
 9 11 20 324 15   60.9  0.267  1.073  0.006  729.  330.   -27.9 0.2940 0.72 0.25 2.10  24.0 15.0 290.0 2.0 0 0.00  38. 1005.  2 NAD-SFC NoSubs
 9 11 20 324 16   17.5  0.232  0.714  0.006  745.  269.   -64.2 0.2470 0.72 0.35 2.10  35.0 15.0 289.8 2.0 0 0.00  43. 1005.  2 NAD-SFC NoSubs
 9 11 20 324 17  -23.0  0.240 -9.000 -9.000 -999.  282.    53.8 0.2470 0.72 0.64 2.60  43.0 15.0 288.8 2.0 0 0.00  45. 1005.  2 NAD-SFC NoSubs
 9 11 20 324 18  -15.4  0.190 -9.000 -9.000 -999.  199.    39.9 0.2470 0.72 1.00 2.10  47.0 15.0 287.4 2.0 0 0.00  49. 1005.  2 NAD-SFC NoSubs
 9 11 20 324 19   -1.6  0.082 -9.000 -9.000 -999.   64.    31.6 0.2470 0.72 1.00 0.50  55.0 15.0 286.2 2.0 0 0.00  54. 1005.  3 NAD-SFC NoSubs
 9 11 20 324 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 285.6 2.0 0 0.00  58. 1006.  3 NAD-SFC NoSubs
 9 11 20 324 21   -3.7  0.099 -9.000 -9.000 -999.   74.    23.4 0.2720 0.72 1.00 1.00 309.0 15.0 285.4 2.0 0 0.00  62. 1006.  5 NAD-SFC NoSubs
 9 11 20 324 22   -7.9  0.140 -9.000 -9.000 -999.  125.    30.9 0.2930 0.72 1.00 1.50 342.0 15.0 284.9 2.0 0 0.00  71. 1006.  5 NAD-SFC NoSubs
 9 11 20 324 23  -14.3  0.256 -9.000 -9.000 -999.  311.   105.6 0.2940 0.72 1.00 2.60  14.0 15.0 284.2 2.0 0 0.25  82. 1007. 10 NAD-SFC NoSubs
 9 11 20 324 24   -3.2  0.096 -9.000 -9.000 -999.   97.    24.7 0.2930 0.72 1.00 1.00 347.0 15.0 284.1 2.0 0 0.25  87. 1006.  8 NAD-SFC NoSubs
 9 11 21 325  1   -2.3  0.087 -9.000 -9.000 -999.   61.    24.8 0.2160 0.72 1.00 1.00 298.0 15.0 284.1 2.0 0 0.25  91. 1006. 10 NAD-SFC NoSubs
 9 11 21 325  2   -2.3  0.087 -9.000 -9.000 -999.   61.    24.8 0.2160 0.72 1.00 1.00 293.0 15.0 284.1 2.0 0 0.25  93. 1006. 10 NAD-SFC NoSubs
 9 11 21 325  3  -11.1  0.200 -9.000 -9.000 -999.  215.    64.5 0.2720 0.72 1.00 2.10 310.0 15.0 284.2 2.0 0 0.00  94. 1006. 10 NAD-SFC NoSubs
 9 11 21 325  4  -16.8  0.301 -9.000 -9.000 -999.  396.   145.5 0.2720 0.72 1.00 3.10 326.0 15.0 284.0 2.0 0 0.25  95. 1006. 10 NAD-SFC NoSubs
 9 11 21 325  5  -25.9  0.464 -9.000 -9.000 -999.  757.   345.1 0.2930 0.72 1.00 4.60 348.0 15.0 283.4 2.0 0 0.51  98. 1006. 10 NAD-SFC NoSubs
 9 11 21 325  6  -26.0  0.464 -9.000 -9.000 -999.  758.   344.7 0.2930 0.72 1.00 4.60 347.0 15.0 283.1 2.0 0 0.51  98. 1007. 10 NAD-SFC NoSubs
 9 11 21 325  7  -26.0  0.464 -9.000 -9.000 -999.  758.   344.6 0.2930 0.72 1.00 4.60 354.0 15.0 283.0 2.0 0 0.51  95. 1008. 10 NAD-SFC NoSubs
 9 11 21 325  8  -15.7  0.469 -9.000 -9.000 -999.  770.   590.0 0.2930 0.72 0.45 4.60 339.0 15.0 282.8 2.0 0 0.51  93. 1008. 10 NAD-SFC NoSubs
 9 11 21 325  9    5.9  0.472  0.308  0.005  176.  778. -1591.9 0.2930 0.72 0.29 4.60 344.0 15.0 282.4 2.0 0 0.25  91. 1009. 10 NAD-SFC NoSubs
 9 11 21 325 10   15.5  0.429  0.475  0.005  249.  676.   -458.1 0.2930 0.72 0.23 4.10 338.0 15.0 282.5 2.0 0 0.00  85. 1009. 10 NAD-SFC NoSubs
 9 11 21 325 11   99.4  0.366  1.074  0.005  449.  533.    -44.2 0.2720 0.72 0.21 3.10 328.0 15.0 283.0 2.0 0 0.00  81. 1009.  5 NAD-SFC NoSubs
 9 11 21 325 12  113.9  0.324  1.224  0.005  579.  444.    -26.8 0.2720 0.72 0.21 2.60 316.0 15.0 284.4 2.0 0 0.00  72. 1008.  3 NAD-SFC NoSubs
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 9 11 21 325 13  109.5  0.368  1.282  0.005  692.  537.    -41.0  0.2720  0.72  0.21  3.10  314.0  15.0  285.5  2.0  0  0.00  65.  1007.  2 NAD-SFC NoSubs
 9 11 21 325 14   91.2  0.363  1.265  0.005  798.  525.    -47.1  0.2720  0.72  0.22  3.10  329.0  15.0  286.2  2.0  0  0.00  59.  1006.  2 NAD-SFC NoSubs
 9 11 21 325 15   59.1  0.357  1.123  0.005  859.  513.    -69.3  0.2930  0.72  0.26  3.10  345.0  15.0  286.8  2.0  0  0.00  54.  1006.  2 NAD-SFC NoSubs
 9 11 21 325 16   15.3  0.169  0.719  0.005  870.  199.    -28.4  0.1970  0.72  0.35  1.50  122.0  15.0  283.9  2.0  0  0.00  72.  1006.  2 NAD-SFC NoSubs
 9 11 21 325 17  -31.6  0.311 -9.000 -9.000 -999.  416.     85.3  0.1810  0.72  0.64  3.60  152.0  15.0  283.2  2.0  0  0.00  79.  1006.  2 NAD-SFC NoSubs
 9 11 21 325 18  -34.2  0.310 -9.000 -9.000 -999.  415.     78.6  0.1810  0.72  1.00  3.60  172.0  15.0  282.0  2.0  0  0.00  88.  1007.  2 NAD-SFC NoSubs
 9 11 21 325 19  -34.3  0.310 -9.000 -9.000 -999.  415.     78.3  0.1810  0.72  1.00  3.60  168.0  15.0  281.2  2.0  0  0.00  93.  1007.  2 NAD-SFC NoSubs
 9 11 21 325 20  -34.4  0.310 -9.000 -9.000 -999.  415.     78.2  0.1810  0.72  1.00  3.60  171.0  15.0  280.6  2.0  0  0.00  96.  1008.  2 NAD-SFC NoSubs
 9 11 21 325 21  -34.5  0.310 -9.000 -9.000 -999.  415.     78.0  0.1810  0.72  1.00  3.60  159.0  15.0  280.0  2.0  0  0.00  98.  1008.  2 NAD-SFC NoSubs
 9 11 21 325 22  -34.5  0.310 -9.000 -9.000 -999.  415.     77.8  0.1810  0.72  1.00  3.60  152.0  15.0  279.5  2.0  0  0.00  98.  1008.  2 NAD-SFC NoSubs
 9 11 21 325 23  -30.2  0.271 -9.000 -9.000 -999.  339.     59.3  0.1970  0.72  1.00  3.10  137.0  15.0  279.4  2.0  0  0.00  96.  1009.  2 NAD-SFC NoSubs
 9 11 21 325 24  -30.2  0.271 -9.000 -9.000 -999.  338.     59.3  0.1970  0.72  1.00  3.10  137.0  15.0  279.2  2.0  0  0.00  95.  1009.  2 NAD-SFC NoSubs
 9 11 22 326  1  -30.2  0.271 -9.000 -9.000 -999.  338.     59.2  0.1970  0.72  1.00  3.10  138.0  15.0  278.9  2.0  0  0.00  96.  1008.  2 NAD-SFC NoSubs
 9 11 22 326  2  -30.2  0.271 -9.000 -9.000 -999.  338.     59.1  0.1970  0.72  1.00  3.10  145.0  15.0  278.6  2.0  0  0.00  96.  1008.  2 NAD-SFC NoSubs
 9 11 22 326  3  -22.1  0.224 -9.000 -9.000 -999.  256.     46.0  0.1970  0.72  1.00  2.60  134.0  15.0  278.0  2.0  0  0.00  98.  1008.  2 NAD-SFC NoSubs
 9 11 22 326  4   -7.4  0.129 -9.000 -9.000 -999.  115.     25.8  0.2130  0.72  1.00  1.50  118.0  15.0  277.2  2.0  0  0.00 100.  1008.  2 NAD-SFC NoSubs
 9 11 22 326  5   -3.8  0.098 -9.000 -9.000 -999.   74.     22.4  0.2130  0.72  1.00  1.00  111.0  15.0  276.5  2.0  0  0.00 100.  1008.  2 NAD-SFC NoSubs
 9 11 22 326  6   -1.6  0.082 -9.000 -9.000 -999.   56.     31.8  0.1970  0.72  1.00  0.50  120.0  15.0  276.2  2.0  0  0.00 100.  1008.  2 NAD-SFC NoSubs
 9 11 22 326  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  275.9  2.0  0  0.00 100.  1009.  2 NAD-SFC NoSubs
 9 11 22 326  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.45  0.00    0.0  15.0  275.8  2.0  0  0.00 100.  1009.  2 NAD-SFC NoSubs
 9 11 22 326  9   36.9 -9.000 -9.000 -9.000   77. -999. -99999.0  0.2235  0.72  0.29  0.00    0.0  15.0  276.2  2.0  0  0.00 100.  1009.  2 NAD-SFC NoSubs
 9 11 22 326 10   75.2 -9.000 -9.000 -9.000  249. -999. -99999.0  0.2235  0.72  0.23  0.00    0.0  15.0  278.6  2.0  0  0.00  91.  1009.  2 NAD-SFC NoSubs
 9 11 22 326 11  100.9 -9.000 -9.000 -9.000  415. -999. -99999.0  0.2235  0.72  0.22  0.00    0.0  15.0  282.0  2.0  0  0.00  72.  1009.  2 NAD-SFC NoSubs
 9 11 22 326 12  112.1 -9.000 -9.000 -9.000  522. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  283.9  2.0  0  0.00  63.  1008.  2 NAD-SFC NoSubs
 9 11 22 326 13  108.6  0.112  1.225  0.014  609.   90.     -1.2  0.2720  0.72  0.21  0.50  312.0  15.0  285.2  2.0  0  0.00  57.  1007.  2 NAD-SFC NoSubs
 9 11 22 326 14   90.3  0.169  1.187  0.014  666.  167.     -4.8  0.2930  0.72  0.22  1.00  330.0  15.0  285.8  2.0  0  0.00  54.  1007.  2 NAD-SFC NoSubs
 9 11 22 326 15   59.5  0.210  1.045  0.014  689.  230.    -13.9  0.2930  0.72  0.26  1.50  351.0  15.0  286.1  2.0  0  0.00  53.  1007.  3 NAD-SFC NoSubs
 9 11 22 326 16   16.8  0.241  0.688  0.014  695.  284.    -74.6  0.2940  0.72  0.35  2.10   21.0  15.0  285.8  2.0  0  0.00  58.  1007.  3 NAD-SFC NoSubs
 9 11 22 326 17  -23.0  0.240 -9.000 -9.000 -999.  282.     53.9  0.2470  0.72  0.65  2.60   44.0  15.0  284.9  2.0  0  0.00  62.  1007.  3 NAD-SFC NoSubs
 9 11 22 326 18  -14.2  0.181 -9.000 -9.000 -999.  186.     37.7  0.2090  0.72  1.00  2.10   73.0  15.0  284.1  2.0  0  0.00  66.  1007.  3 NAD-SFC NoSubs
 9 11 22 326 19   -7.2  0.128 -9.000 -9.000 -999.  111.     26.4  0.2130  0.72  1.00  1.50  118.0  15.0  283.4  2.0  0  0.00  70.  1008.  3 NAD-SFC NoSubs
 9 11 22 326 20   -6.8  0.123 -9.000 -9.000 -999.  104.     25.0  0.1810  0.72  1.00  1.50  155.0  15.0  282.8  2.0  0  0.00  74.  1008.  3 NAD-SFC NoSubs
 9 11 22 326 21   -6.8  0.123 -9.000 -9.000 -999.  104.     25.0  0.1810  0.72  1.00  1.50  160.0  15.0  282.2  2.0  0  0.00  76.  1009.  3 NAD-SFC NoSubs
 9 11 22 326 22   -6.8  0.123 -9.000 -9.000 -999.  104.     25.0  0.1810  0.72  1.00  1.50  165.0  15.0  281.9  2.0  0  0.00  78.  1009.  3 NAD-SFC NoSubs
 9 11 22 326 23  -13.9  0.178 -9.000 -9.000 -999.  181.     36.7  0.1970  0.72  1.00  2.10  143.0  15.0  281.4  2.0  0  0.00  80.  1009.  3 NAD-SFC NoSubs
 9 11 22 326 24  -22.0  0.225 -9.000 -9.000 -999.  255.     46.3  0.1970  0.72  1.00  2.60  144.0  15.0  281.0  2.0  0  0.00  82.  1009.  2 NAD-SFC NoSubs
 9 11 23 327  1  -30.1  0.271 -9.000 -9.000 -999.  339.     59.6  0.1970  0.72  1.00  3.10  140.0  15.0  280.6  2.0  0  0.00  83.  1009.  2 NAD-SFC NoSubs
 9 11 23 327  2  -22.0  0.225 -9.000 -9.000 -999.  256.     46.3  0.1970  0.72  1.00  2.60  141.0  15.0  280.2  2.0  0  0.00  84.  1009.  2 NAD-SFC NoSubs
 9 11 23 327  3  -21.3  0.220 -9.000 -9.000 -999.  247.     44.8  0.1810  0.72  1.00  2.60  155.0  15.0  280.0  2.0  0  0.00  84.  1009.  2 NAD-SFC NoSubs
 9 11 23 327  4  -13.6  0.174 -9.000 -9.000 -999.  175.     34.9  0.1810  0.72  1.00  2.10  161.0  15.0  279.8  2.0  0  0.00  85.  1009.  2 NAD-SFC NoSubs
 9 11 23 327  5   -7.0  0.125 -9.000 -9.000 -999.  107.     25.0  0.1900  0.72  1.00  1.50  180.0  15.0  279.6  2.0  0  0.00  88.  1009.  2 NAD-SFC NoSubs
 9 11 23 327  6   -3.6  0.096 -9.000 -9.000 -999.   72.     22.1  0.1950  0.72  1.00  1.00  232.0  15.0  279.4  2.0  0  0.00  92.  1010.  2 NAD-SFC NoSubs
 9 11 23 327  7  -14.7  0.183 -9.000 -9.000 -999.  187.     37.2  0.2160  0.72  1.00  2.10  271.0  15.0  279.2  2.0  0  0.00  96.  1010.  2 NAD-SFC NoSubs
 9 11 23 327  8   -4.6  0.132 -9.000 -9.000 -999.  116.     45.9  0.2160  0.72  0.46  1.50  285.0  15.0  279.0  2.0  0  0.00  96.  1010.  2 NAD-SFC NoSubs
 9 11 23 327  9   36.6  0.196  0.444  0.006   86.  209.    -18.7  0.2720  0.72  0.29  1.50  311.0  15.0  281.1  2.0  0  0.00  82.  1011.  2 NAD-SFC NoSubs
 9 11 23 327 10   75.0  0.212  0.890  0.009  339.  234.    -11.4  0.2720  0.72  0.24  1.50  314.0  15.0  283.0  2.0  0  0.00  73.  1011.  2 NAD-SFC NoSubs
 9 11 23 327 11  100.5  0.219  1.133  0.012  523.  246.     -9.4  0.2720  0.72  0.22  1.50  306.0  15.0  284.8  2.0  0  0.00  65.  1011.  2 NAD-SFC NoSubs
 9 11 23 327 12  111.7  0.221  1.270  0.014  661.  250.     -8.7  0.2720  0.72  0.21  1.50  313.0  15.0  286.0  2.0  0  0.00  59.  1010.  2 NAD-SFC NoSubs
 9 11 23 327 13  108.1  0.221  1.283  0.014  704.  249.     -9.0  0.2720  0.72  0.21  1.50  314.0  15.0  286.8  2.0  0  0.00  55.  1010.  2 NAD-SFC NoSubs
 9 11 23 327 14   90.1  0.216  1.227  0.014  739.  241.    -10.1  0.2720  0.72  0.22  1.50  322.0  15.0  287.6  2.0  0  0.00  52.  1010.  2 NAD-SFC NoSubs
 9 11 23 327 15   58.1  0.206  1.071  0.014  761.  224.    -13.5  0.2720  0.72  0.26  1.50  322.0  15.0  288.0  2.0  0  0.00  49.  1010.  2 NAD-SFC NoSubs
 9 11 23 327 16   15.3  0.181  0.689  0.014  766.  185.    -34.9  0.2720  0.72  0.35  1.50  323.0  15.0  288.0  2.0  0  0.00  51.  1009.  2 NAD-SFC NoSubs
 9 11 23 327 17   -1.6  0.081 -9.000 -9.000 -999.   61.     31.3  0.2720  0.72  0.65  0.50  318.0  15.0  287.4  2.0  0  0.00  53.  1010.  2 NAD-SFC NoSubs
 9 11 23 327 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  286.2  2.0  0  0.00  58.  1010.  2 NAD-SFC NoSubs
 9 11 23 327 19   -3.6  0.095 -9.000 -9.000 -999.   71.     22.0  0.1900  0.72  1.00  1.00  195.0  15.0  285.0  2.0  0  0.00  64.  1011.  2 NAD-SFC NoSubs
 9 11 23 327 20   -7.0  0.125 -9.000 -9.000 -999.  106.     25.2  0.1900  0.72  1.00  1.50  197.0  15.0  284.1  2.0  0  0.00  67.  1011.  2 NAD-SFC NoSubs
 9 11 23 327 21   -7.0  0.125 -9.000 -9.000 -999.  106.     25.1  0.1900  0.72  1.00  1.50  203.0  15.0  283.6  2.0  0  0.00  67.  1012.  2 NAD-SFC NoSubs
 9 11 23 327 22   -3.6  0.096 -9.000 -9.000 -999.   71.     22.0  0.1900  0.72  1.00  1.00  199.0  15.0  283.1  2.0  0  0.00  68.  1012.  2 NAD-SFC NoSubs
 9 11 23 327 23   -1.5  0.081 -9.000 -9.000 -999.   55.     31.5  0.1900  0.72  1.00  0.50  196.0  15.0  282.4  2.0  0  0.00  71.  1013.  2 NAD-SFC NoSubs
 9 11 23 327 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  281.9  2.0  0  0.00  73.  1013.  2 NAD-SFC NoSubs
 9 11 24 328  1   -1.6  0.082 -9.000 -9.000 -999.   57.     31.8  0.2160  0.72  1.00  0.50  279.0  15.0  281.4  2.0  0  0.00  74.  1013.  2 NAD-SFC NoSubs
 9 11 24 328  2   -3.8  0.098 -9.000 -9.000 -999.   73.     22.5  0.2160  0.72  1.00  1.00  294.0  15.0  281.0  2.0  0  0.00  74.  1013.  2 NAD-SFC NoSubs
 9 11 24 328  3   -7.4  0.129 -9.000 -9.000 -999.  111.     26.1  0.2160  0.72  1.00  1.50  286.0  15.0  280.6  2.0  0  0.00  73.  1013.  2 NAD-SFC NoSubs
 9 11 24 328  4  -14.7  0.183 -9.000 -9.000 -999.  187.     37.3  0.2160  0.72  1.00  2.10  297.0  15.0  280.4  2.0  0  0.00  72.  1013.  2 NAD-SFC NoSubs
 9 11 24 328  5  -16.4  0.195 -9.000 -9.000 -999.  207.     40.8  0.2720  0.72  1.00  2.10  301.0  15.0  280.1  2.0  0  0.00  70.  1013.  2 NAD-SFC NoSubs
 9 11 24 328  6   -7.4  0.129 -9.000 -9.000 -999.  112.     26.0  0.2160  0.72  1.00  1.50  288.0  15.0  279.8  2.0  0  0.00  68.  1013.  2 NAD-SFC NoSubs
 9 11 24 328  7   -3.8  0.098 -9.000 -9.000 -999.   74.     22.5  0.2160  0.72  1.00  1.00  276.0  15.0  279.6  2.0  0  0.00  67.  1013.  2 NAD-SFC NoSubs
 9 11 24 328  8   -2.0  0.086 -9.000 -9.000 -999.   60.     27.8  0.2160  0.72  0.46  1.00  277.0  15.0  279.5  2.0  0  0.00  64.  1013.  2 NAD-SFC NoSubs
 9 11 24 328  9   35.7  0.196  0.428  0.009   80.  208.    -19.1  0.2720  0.72  0.29  1.50  300.0  15.0  281.2  2.0  0  0.00  55.  1013.  2 NAD-SFC NoSubs
 9 11 24 328 10   74.1  0.211  0.747  0.009  203.  233.    -11.5  0.2720  0.72  0.24  1.50  311.0  15.0  283.8  2.0  0  0.00  47.  1013.  2 NAD-SFC NoSubs
 9 11 24 328 11   99.8  0.168  1.012  0.009  375.  166.     -4.3  0.2720  0.72  0.22  1.00  311.0  15.0  285.8  2.0  0  0.00  43.  1012.  2 NAD-SFC NoSubs
 9 11 24 328 12  111.2  0.171  1.147  0.009  490.  169.     -4.0  0.2720  0.72  0.21  1.00  314.0  15.0  287.4  2.0  0  0.00  38.  1012.  2 NAD-SFC NoSubs
 9 11 24 328 13  107.9  0.170  1.201  0.009  580.  168.     -4.1  0.2720  0.72  0.21  1.00  319.0  15.0  288.5  2.0  0  0.00  36.  1011.  2 NAD-SFC NoSubs
 9 11 24 328 14   89.9  0.166  1.171  0.009  646.  162.     -4.6  0.2720  0.72  0.22  1.00  316.0  15.0  289.2  2.0  0  0.00  36.  1011.  2 NAD-SFC NoSubs
 9 11 24 328 15   58.0  0.158  1.034  0.009  686.  150.     -6.1  0.2720  0.72  0.26  1.00  327.0  15.0  289.5  2.0  0  0.00  37.  1010.  2 NAD-SFC NoSubs
 9 11 24 328 16   15.3  0.138  0.666  0.008  697.  123.    -15.4  0.2940  0.72  0.36  1.00    8.0  15.0  289.4  2.0  0  0.00  40.  1010.  2 NAD-SFC NoSubs
 9 11 24 328 17   -1.5  0.080 -9.000 -9.000 -999.   55.     31.1  0.2470  0.72  0.65  0.50   52.0  15.0  288.5  2.0  0  0.00  45.  1010.  2 NAD-SFC NoSubs
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 9 11 24 328 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 287.2 2.0 0 0.00 51. 1010. 2 NAD-SFC NoSubs
 9 11 24 328 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 286.2 2.0 0 0.00 57. 1011. 2 NAD-SFC NoSubs
 9 11 24 328 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 285.4 2.0 0 0.00 62. 1011. 2 NAD-SFC NoSubs
 9 11 24 328 21   -1.7  0.085 -9.000 -9.000 -999.   59.    32.3 0.2940 0.72 1.00 0.50  26.0 15.0 284.8 2.0 0 0.00 65. 1011. 2 NAD-SFC NoSubs
 9 11 24 328 22   -3.9  0.100 -9.000 -9.000 -999.   76.    22.9 0.2470 0.72 1.00 1.00  35.0 15.0 283.9 2.0 0 0.00 69. 1011. 2 NAD-SFC NoSubs
 9 11 24 328 23   -7.8  0.133 -9.000 -9.000 -999.  117.    27.4 0.2470 0.72 1.00 1.50  35.0 15.0 283.1 2.0 0 0.00 73. 1011. 2 NAD-SFC NoSubs
 9 11 24 328 24   -3.9  0.100 -9.000 -9.000 -999.   76.    23.0 0.2470 0.72 1.00 1.00  31.0 15.0 282.5 2.0 0 0.00 76. 1011. 2 NAD-SFC NoSubs
 9 11 25 329  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 281.9 2.0 0 0.00 77. 1011. 2 NAD-SFC NoSubs
 9 11 25 329  2   -1.7  0.085 -9.000 -9.000 -999.   60.    32.4 0.2930 0.72 1.00 0.50 339.0 15.0 281.4 2.0 0 0.00 78. 1011. 2 NAD-SFC NoSubs
 9 11 25 329  3   -1.7  0.085 -9.000 -9.000 -999.   59.    32.3 0.2720 0.72 1.00 0.50 320.0 15.0 280.9 2.0 0 0.00 79. 1011. 2 NAD-SFC NoSubs
 9 11 25 329  4   -4.1  0.102 -9.000 -9.000 -999.   78.    23.3 0.2720 0.72 1.00 1.00 301.0 15.0 280.5 2.0 0 0.00 79. 1011. 2 NAD-SFC NoSubs
 9 11 25 329  5   -3.8  0.098 -9.000 -9.000 -999.   73.    22.5 0.2160 0.72 1.00 1.00 286.0 15.0 280.2 2.0 0 0.00 78. 1011. 2 NAD-SFC NoSubs
 9 11 25 329  6   -3.5  0.095 -9.000 -9.000 -999.   70.    21.8 0.1750 0.72 1.00 1.00 265.0 15.0 280.0 2.0 0 0.00 76. 1011. 2 NAD-SFC NoSubs
 9 11 25 329  7   -6.8  0.123 -9.000 -9.000 -999.  103.    24.4 0.1750 0.72 1.00 1.50 251.0 15.0 279.9 2.0 0 0.00 74. 1011. 2 NAD-SFC NoSubs
 9 11 25 329  8   -4.5  0.124 -9.000 -9.000 -999.  105.    39.0 0.1750 0.72 0.47 1.50 249.0 15.0 279.9 2.0 0 0.00 71. 1011. 2 NAD-SFC NoSubs
 9 11 25 329  9   34.8  0.178  0.431  0.011   83.  181.   -14.7 0.1750 0.72 0.30 1.50 267.0 15.0 281.8 2.0 0 0.00 62. 1011. 2 NAD-SFC NoSubs
 9 11 25 329 10   73.3  0.254  0.730  0.010  191.  307.   -20.1 0.2160 0.72 0.24 2.10 290.0 15.0 284.2 2.0 0 0.00 53. 1011. 2 NAD-SFC NoSubs
 9 11 25 329 11   99.0  0.168  0.976  0.010  338.  168.    -4.3 0.2720 0.72 0.22 1.00 321.0 15.0 286.1 2.0 0 0.00 50. 1010. 2 NAD-SFC NoSubs
 9 11 25 329 12  110.4  0.174  1.109  0.010  445.  174.    -4.3 0.2930 0.72 0.21 1.00 342.0 15.0 287.8 2.0 0 0.00 46. 1009. 2 NAD-SFC NoSubs
 9 11 25 329 13  107.3  0.224  1.159  0.009  522.  255.    -9.4 0.2930 0.72 0.21 1.50 354.0 15.0 289.2 2.0 0 0.00 43. 1009. 2 NAD-SFC NoSubs
 9 11 25 329 14   89.5  0.277  1.130  0.008  579.  349.   -21.2 0.2930 0.72 0.22 2.10 349.0 15.0 290.2 2.0 0 0.00 41. 1008. 2 NAD-SFC NoSubs
 9 11 25 329 15   57.7  0.312  0.995  0.008  613.  417.   -47.1 0.2940 0.72 0.26 2.60   3.0 15.0 290.5 2.0 0 0.00 41. 1008. 2 NAD-SFC NoSubs
 9 11 25 329 16   15.0  0.333  0.638  0.008  621.  461.  -220.5 0.2940 0.72 0.36 3.10  15.0 15.0 290.0 2.0 0 0.00 47. 1008. 2 NAD-SFC NoSubs
 9 11 25 329 17  -36.0  0.355 -9.000 -9.000 -999.  508.   111.8 0.2940 0.72 0.66 3.60  18.0 15.0 289.0 2.0 0 0.00 49. 1008. 2 NAD-SFC NoSubs
 9 11 25 329 18  -32.8  0.303 -9.000 -9.000 -999.  402.    76.5 0.2940 0.72 1.00 3.10  24.0 15.0 287.8 2.0 0 0.00 53. 1008. 2 NAD-SFC NoSubs
 9 11 25 329 19   -7.7  0.133 -9.000 -9.000 -999.  143.    27.5 0.2470 0.72 1.00 1.50  30.0 15.0 286.5 2.0 0 0.00 58. 1008. 2 NAD-SFC NoSubs
 9 11 25 329 20   -1.6  0.083 -9.000 -9.000 -999.   59.    31.9 0.2470 0.72 1.00 0.50  37.0 15.0 285.4 2.0 0 0.00 64. 1008. 2 NAD-SFC NoSubs
 9 11 25 329 21   -1.6  0.083 -9.000 -9.000 -999.   58.    31.9 0.2470 0.72 1.00 0.50  35.0 15.0 284.5 2.0 0 0.00 69. 1008. 2 NAD-SFC NoSubs
 9 11 25 329 22   -1.6  0.083 -9.000 -9.000 -999.   58.    32.0 0.2470 0.72 1.00 0.50  44.0 15.0 283.8 2.0 0 0.00 72. 1009. 2 NAD-SFC NoSubs
 9 11 25 329 23   -1.7  0.085 -9.000 -9.000 -999.   60.    32.3 0.2940 0.72 1.00 0.50  27.0 15.0 283.1 2.0 0 0.00 73. 1009. 2 NAD-SFC NoSubs
 9 11 25 329 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 282.6 2.0 0 0.00 74. 1009. 2 NAD-SFC NoSubs
 9 11 26 330  1   -1.7  0.085 -9.000 -9.000 -999.   60.    32.3 0.2930 0.72 1.00 0.50 336.0 15.0 282.1 2.0 0 0.00 73. 1009. 2 NAD-SFC NoSubs
 9 11 26 330  2   -1.7  0.085 -9.000 -9.000 -999.   60.    32.4 0.2930 0.72 1.00 0.50 333.0 15.0 281.8 2.0 0 0.00 73. 1009. 2 NAD-SFC NoSubs
 9 11 26 330  3   -4.2  0.103 -9.000 -9.000 -999.   79.    23.6 0.2930 0.72 1.00 1.00 334.0 15.0 281.4 2.0 0 0.00 73. 1008. 2 NAD-SFC NoSubs
 9 11 26 330  4   -4.2  0.103 -9.000 -9.000 -999.   79.    23.6 0.2930 0.72 1.00 1.00 352.0 15.0 281.1 2.0 0 0.00 74. 1008. 2 NAD-SFC NoSubs
 9 11 26 330  5   -4.2  0.103 -9.000 -9.000 -999.   79.    23.6 0.2930 0.72 1.00 1.00 347.0 15.0 280.8 2.0 0 0.00 74. 1008. 2 NAD-SFC NoSubs
 9 11 26 330  6   -4.2  0.103 -9.000 -9.000 -999.   79.    23.6 0.2930 0.72 1.00 1.00 346.0 15.0 280.4 2.0 0 0.00 74. 1009. 2 NAD-SFC NoSubs
 9 11 26 330  7   -1.7  0.085 -9.000 -9.000 -999.   60.    32.4 0.2930 0.72 1.00 0.50 333.0 15.0 280.2 2.0 0 0.00 73. 1009. 2 NAD-SFC NoSubs
 9 11 26 330  8   -0.8  0.061 -9.000 -9.000 -999.   37.    25.5 0.2720 0.72 0.47 0.50 328.0 15.0 280.1 2.0 0 0.00 72. 1009. 2 NAD-SFC NoSubs
 9 11 26 330  9   33.8  0.148  0.415  0.012   76.  136.    -8.6 0.2720 0.72 0.30 1.00 323.0 15.0 281.8 2.0 0 0.00 64. 1009. 2 NAD-SFC NoSubs
 9 11 26 330 10   72.3  0.266  0.715  0.010  182.  330.   -23.5 0.2720 0.72 0.24 2.10 315.0 15.0 284.2 2.0 0 0.00 55. 1009. 2 NAD-SFC NoSubs
 9 11 26 330 11   98.1  0.218  0.948  0.010  312.  245.    -9.5 0.2720 0.72 0.22 1.50 321.0 15.0 286.2 2.0 0 0.00 52. 1009. 2 NAD-SFC NoSubs
 9 11 26 330 12  109.7  0.173  1.088  0.009  423.  174.    -4.3 0.2930 0.72 0.21 1.00 331.0 15.0 288.1 2.0 0 0.00 48. 1008. 2 NAD-SFC NoSubs
 9 11 26 330 13  106.6  0.173  1.150  0.009  513.  172.    -4.3 0.2930 0.72 0.21 1.00 338.0 15.0 289.5 2.0 0 0.00 46. 1007. 2 NAD-SFC NoSubs
 9 11 26 330 14   89.0  0.169  1.128  0.008  578.  166.    -4.8 0.2930 0.72 0.23 1.00 342.0 15.0 290.8 2.0 0 0.00 43. 1006. 2 NAD-SFC NoSubs
 9 11 26 330 15   57.4  0.209  0.995  0.008  617.  229.   -14.3 0.2930 0.72 0.26 1.50 335.0 15.0 291.2 2.0 0 0.00 41. 1006. 2 NAD-SFC NoSubs
 9 11 26 330 16   15.3  0.181  0.645  0.008  627.  185.   -34.9 0.2720 0.72 0.36 1.50 325.0 15.0 292.0 2.0 0 0.00 40. 1006. 2 NAD-SFC NoSubs
 9 11 26 330 17   -8.1  0.140 -9.000 -9.000 -999.  126.    30.4 0.2930 0.72 0.66 1.50 334.0 15.0 291.0 2.0 0 0.00 44. 1005. 2 NAD-SFC NoSubs
 9 11 26 330 18   -1.7  0.084 -9.000 -9.000 -999.   59.    32.1 0.2930 0.72 1.00 0.50 337.0 15.0 289.6 2.0 0 0.00 50. 1006. 2 NAD-SFC NoSubs
 9 11 26 330 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 288.1 2.0 0 0.00 56. 1005. 2 NAD-SFC NoSubs
 9 11 26 330 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 286.8 2.0 0 0.00 62. 1005. 2 NAD-SFC NoSubs
 9 11 26 330 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 285.6 2.0 0 0.00 67. 1006. 2 NAD-SFC NoSubs
 9 11 26 330 22   -1.7  0.085 -9.000 -9.000 -999.   59.    32.3 0.2940 0.72 1.00 0.50  26.0 15.0 284.8 2.0 0 0.00 71. 1006. 2 NAD-SFC NoSubs
 9 11 26 330 23   -1.7  0.085 -9.000 -9.000 -999.   59.    32.3 0.2940 0.72 1.00 0.50  16.0 15.0 284.0 2.0 0 0.00 73. 1006. 2 NAD-SFC NoSubs
 9 11 26 330 24   -1.7  0.085 -9.000 -9.000 -999.   59.    32.3 0.2930 0.72 1.00 0.50 354.0 15.0 283.8 2.0 0 0.00 73. 1006. 2 NAD-SFC NoSubs
 9 11 27 331  1   -1.7  0.085 -9.000 -9.000 -999.   59.    32.3 0.2930 0.72 1.00 0.50 349.0 15.0 283.5 2.0 0 0.00 73. 1006. 2 NAD-SFC NoSubs
 9 11 27 331  2   -1.7  0.084 -9.000 -9.000 -999.   59.    32.2 0.2720 0.72 1.00 0.50 319.0 15.0 283.5 2.0 0 0.00 73. 1006. 2 NAD-SFC NoSubs
 9 11 27 331  3   -3.7  0.097 -9.000 -9.000 -999.   73.    22.5 0.2160 0.72 1.00 1.00 294.0 15.0 283.4 2.0 0 0.00 73. 1006. 2 NAD-SFC NoSubs
 9 11 27 331  4   -7.3  0.129 -9.000 -9.000 -999.  111.    26.2 0.2160 0.72 1.00 1.50 281.0 15.0 283.2 2.0 0 0.00 72. 1006. 2 NAD-SFC NoSubs
 9 11 27 331  5   -7.3  0.129 -9.000 -9.000 -999.  111.    26.2 0.2160 0.72 1.00 1.50 279.0 15.0 283.2 2.0 0 0.00 70. 1006. 2 NAD-SFC NoSubs
 9 11 27 331  6   -3.7  0.097 -9.000 -9.000 -999.   73.    22.5 0.2160 0.72 1.00 1.00 292.0 15.0 283.4 2.0 0 0.00 68. 1006. 2 NAD-SFC NoSubs
 9 11 27 331  7   -4.0  0.101 -9.000 -9.000 -999.   78.    23.3 0.2720 0.72 1.00 1.00 323.0 15.0 283.4 2.0 0 0.00 67. 1006. 2 NAD-SFC NoSubs
 9 11 27 331  8   -0.8  0.062 -9.000 -9.000 -999.   38.    25.8 0.2930 0.72 0.48 0.50 332.0 15.0 283.2 2.0 0 0.00 66. 1006. 2 NAD-SFC NoSubs
 9 11 27 331  9   33.2 -9.000 -9.000 -9.000   90. -999. -99999.0 0.2235 0.72 0.30 0.00   0.0 15.0 283.4 2.0 0 0.00 66. 1006. 2 NAD-SFC NoSubs
 9 11 27 331 10   71.4  0.108  0.747  0.010  210.   85.    -1.6 0.2930 0.72 0.24 0.50 342.0 15.0 284.2 2.0 0 0.00 60. 1007. 2 NAD-SFC NoSubs
 9 11 27 331 11   97.1  0.170  0.972  0.009  340.  169.    -4.6 0.2930 0.72 0.22 1.00 335.0 15.0 285.6 2.0 0 0.00 52. 1006. 2 NAD-SFC NoSubs
 9 11 27 331 12  108.4  0.170  1.106  0.009  448.  169.    -4.1 0.2720 0.72 0.21 1.00 317.0 15.0 286.2 2.0 0 0.00 49. 1006. 2 NAD-SFC NoSubs
 9 11 27 331 13  105.8  0.220  1.166  0.008  538.  248.    -9.1 0.2720 0.72 0.21 1.50 308.0 15.0 286.8 2.0 0 0.00 47. 1006. 3 NAD-SFC NoSubs
 9 11 27 331 14   88.3  0.216  1.141  0.007  603.  241.   -10.2 0.2720 0.72 0.23 1.50 321.0 15.0 287.5 2.0 0 0.00 44. 1005. 3 NAD-SFC NoSubs
 9 11 27 331 15   57.4  0.160  1.010  0.007  643.  155.    -6.4 0.2930 0.72 0.26 1.00 338.0 15.0 288.2 2.0 0 0.00 44. 1005. 4 NAD-SFC NoSubs
 9 11 27 331 16   16.7  0.089  0.673  0.007  654.   65.    -3.8 0.2930 0.72 0.36 0.50 354.0 15.0 288.2 2.0 0 0.00 47. 1004. 6 NAD-SFC NoSubs
 9 11 27 331 17   -0.9  0.064 -9.000 -9.000 -999.   39.    26.1 0.2930 0.72 0.66 0.50 358.0 15.0 287.8 2.0 0 0.00 52. 1004. 10 NAD-SFC NoSubs
 9 11 27 331 18   -0.9  0.065 -9.000 -9.000 -999.   40.    26.4 0.2930 0.72 1.00 0.50 342.0 15.0 286.9 2.0 0 0.51 59. 1004. 10 NAD-SFC NoSubs
 9 11 27 331 19   -0.8  0.062 -9.000 -9.000 -999.   37.    25.7 0.2160 0.72 1.00 0.50 275.0 15.0 285.9 2.0 0 1.52 73. 1005. 10 NAD-SFC NoSubs
 9 11 27 331 20  -13.9  0.250 -9.000 -9.000 -999.  301.   101.3 0.2720 0.72 1.00 2.60 300.0 15.0 285.2 2.0 0 1.78 86. 1005. 10 NAD-SFC NoSubs
 9 11 27 331 21  -27.4  0.327 -9.000 -9.000 -999.  448.   114.1 0.2160 0.72 1.00 3.60 292.0 15.0 284.8 2.0 0 0.76 91. 1005.  7 NAD-SFC NoSubs
 9 11 27 331 22  -29.8  0.326 -9.000 -9.000 -999.  447.   104.5 0.2160 0.72 1.00 3.60 285.0 15.0 284.1 2.0 0 0.51 92. 1005.  6 NAD-SFC NoSubs
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 9 11 27 331 23  -21.0  0.377 -9.000 -9.000 -999.  556.    229.1  0.2160  0.72  1.00  4.10  278.0  15.0  283.9  2.0  0  0.51  90.  1004.   10 NAD-SFC NoSubs
 9 11 27 331 24  -23.7  0.426 -9.000 -9.000 -999.  666.    291.0  0.2160  0.72  1.00  4.60  285.0  15.0  283.6  2.0  0  0.51  87.  1003.   10 NAD-SFC NoSubs
 9 11 28 332  1  -26.4  0.474 -9.000 -9.000 -999.  782.    360.3  0.2160  0.72  1.00  5.10  294.0  15.0  283.2  2.0  0  0.51  85.  1003.   10 NAD-SFC NoSubs
 9 11 28 332  2  -23.7  0.426 -9.000 -9.000 -999.  668.    290.5  0.2160  0.72  1.00  4.60  295.0  15.0  283.2  2.0  0  0.51  84.  1003.   10 NAD-SFC NoSubs
 9 11 28 332  3  -32.0  0.423 -9.000 -9.000 -999.  660.    210.8  0.2160  0.72  1.00  4.60  289.0  15.0  283.2  2.0  0  0.00  82.  1003.    8 NAD-SFC NoSubs
 9 11 28 332  4  -41.0  0.421 -9.000 -9.000 -999.  654.    161.8  0.2160  0.72  1.00  4.60  297.0  15.0  282.8  2.0  0  0.00  81.  1002.    5 NAD-SFC NoSubs
 9 11 28 332  5  -33.9  0.347 -9.000 -9.000 -999.  495.    110.3  0.2720  0.72  1.00  3.60  304.0  15.0  282.4  2.0  0  0.00  79.  1002.    5 NAD-SFC NoSubs
 9 11 28 332  6  -28.6  0.278 -9.000 -9.000 -999.  355.     67.3  0.2160  0.72  1.00  3.10  292.0  15.0  282.4  2.0  0  0.00  77.  1003.    4 NAD-SFC NoSubs
 9 11 28 332  7  -20.2  0.218 -9.000 -9.000 -999.  246.     46.2  0.1750  0.72  1.00  2.60  267.0  15.0  282.2  2.0  0  0.00  75.  1003.    4 NAD-SFC NoSubs
 9 11 28 332  8   -9.1  0.224 -9.000 -9.000 -999.  254.    109.8  0.1750  0.72  0.48  2.60  250.0  15.0  281.9  2.0  0  0.00  74.  1003.    4 NAD-SFC NoSubs
 9 11 28 332  9   34.4  0.238  0.622  0.005  249.  278.    -35.0  0.2160  0.72  0.30  2.10  279.0  15.0  282.6  2.0  0  0.00  69.  1003.    4 NAD-SFC NoSubs
 9 11 28 332 10   71.4  0.408  0.988  0.005  483.  626.    -85.2  0.2930  0.72  0.24  3.60  331.0  15.0  283.5  2.0  0  0.00  62.  1002.    4 NAD-SFC NoSubs
 9 11 28 332 11   96.4  0.509  1.210  0.005  657.  871.   -122.1  0.2930  0.72  0.22  4.60  344.0  15.0  285.1  2.0  0  0.00  56.  1002.    4 NAD-SFC NoSubs
 9 11 28 332 12  108.3  0.466  1.427  0.005  959.  765.    -83.3  0.2930  0.72  0.21  4.10  341.0  15.0  286.2  2.0  0  0.00  52.  1001.    3 NAD-SFC NoSubs
 9 11 28 332 13  105.3  0.374  1.475  0.005 1089.  554.    -44.2  0.2930  0.72  0.21  3.10  339.0  15.0  287.2  2.0  0  0.00  50.  1001.    3 NAD-SFC NoSubs
 9 11 28 332 14   87.7  0.276  1.426  0.005 1183.  354.    -21.4  0.2930  0.72  0.23  2.10  347.0  15.0  287.8  2.0  0  0.00  48.  1001.    3 NAD-SFC NoSubs
 9 11 28 332 15   56.6  0.201  1.252  0.005 1240.  219.    -12.8  0.2470  0.72  0.26  1.50   30.0  15.0  288.2  2.0  0  0.00  48.  1001.    3 NAD-SFC NoSubs
 9 11 28 332 16   14.9  0.171  0.805  0.005 1254.  170.    -30.0  0.2090  0.72  0.36  1.50   89.0  15.0  288.1  2.0  0  0.00  51.  1001.    3 NAD-SFC NoSubs
 9 11 28 332 17  -27.0  0.272 -9.000 -9.000  -999.  340.     66.4  0.1970  0.72  0.67  3.10  130.0  15.0  287.4  2.0  0  0.00  55.  1001.    3 NAD-SFC NoSubs
 9 11 28 332 18  -32.6  0.311 -9.000 -9.000 -999.  416.     82.0  0.1810  0.72  1.00  3.60  165.0  15.0  286.4  2.0  0  0.00  62.  1001.    3 NAD-SFC NoSubs
 9 11 28 332 19  -32.8  0.311 -9.000 -9.000 -999.  416.     81.7  0.1810  0.72  1.00  3.60  164.0  15.0  285.2  2.0  0  0.00  67.  1002.    3 NAD-SFC NoSubs
 9 11 28 332 20  -39.5  0.363 -9.000 -9.000 -999.  526.    108.5  0.1970  0.72  1.00  4.10  136.0  15.0  284.2  2.0  0  0.00  71.  1002.    2 NAD-SFC NoSubs
 9 11 28 332 21  -29.6  0.271 -9.000 -9.000 -999.  343.     60.2  0.1970  0.72  1.00  3.10  139.0  15.0  283.4  2.0  0  0.00  73.  1003.    2 NAD-SFC NoSubs
 9 11 28 332 22  -14.0  0.178 -9.000 -9.000 -999.  184.     36.2  0.1970  0.72  1.00  2.10  139.0  15.0  282.8  2.0  0  0.00  76.  1003.    2 NAD-SFC NoSubs
 9 11 28 332 23  -13.5  0.174 -9.000 -9.000 -999.  175.     35.1  0.1810  0.72  1.00  2.10  158.0  15.0  282.2  2.0  0  0.00  78.  1004.    2 NAD-SFC NoSubs
 9 11 28 332 24  -13.8  0.176 -9.000 -9.000 -999.  178.     35.7  0.1900  0.72  1.00  2.10  196.0  15.0  281.9  2.0  0  0.00  79.  1004.    2 NAD-SFC NoSubs
 9 11 29 333  1  -21.8  0.224 -9.000 -9.000 -999.  254.     46.2  0.1950  0.72  1.00  2.60  220.0  15.0  281.8  2.0  0  0.00  79.  1005.    2 NAD-SFC NoSubs
 9 11 29 333  2  -21.8  0.224 -9.000 -9.000 -999.  254.     46.2  0.1950  0.72  1.00  2.60  232.0  15.0  281.8  2.0  0  0.00  77.  1005.    2 NAD-SFC NoSubs
 9 11 29 333  3  -29.7  0.270 -9.000 -9.000 -999.  337.     59.5  0.1950  0.72  1.00  3.10  226.0  15.0  281.8  2.0  0  0.00  75.  1005.    2 NAD-SFC NoSubs
 9 11 29 333  4  -29.8  0.270 -9.000 -9.000 -999.  337.     59.5  0.1950  0.72  1.00  3.10  226.0  15.0  281.6  2.0  0  0.00  72.  1006.    2 NAD-SFC NoSubs
 9 11 29 333  5  -34.9  0.316 -9.000 -9.000 -999.  427.     81.4  0.1950  0.72  1.00  3.60  228.0  15.0  281.4  2.0  0  0.00  70.  1006.    2 NAD-SFC NoSubs
 9 11 29 333  6  -39.0  0.353 -9.000 -9.000 -999.  502.    101.0  0.1750  0.72  1.00  4.10  245.0  15.0  281.1  2.0  0  0.00  68.  1007.    2 NAD-SFC NoSubs
 9 11 29 333  7  -39.0  0.353 -9.000 -9.000 -999.  502.    100.9  0.1750  0.72  1.00  4.10  260.0  15.0  280.9  2.0  0  0.00  66.  1007.    2 NAD-SFC NoSubs
 9 11 29 333  8  -19.1  0.329 -9.000 -9.000 -999.  454.    167.8  0.2160  0.72  0.49  3.60  274.0  15.0  280.6  2.0  0  0.00  65.  1008.    2 NAD-SFC NoSubs
 9 11 29 333  9   31.1  0.278  0.430  0.009   92.  354.    -62.3  0.2160  0.72  0.30  2.60  293.0  15.0  282.0  2.0  0  0.00  60.  1008.    2 NAD-SFC NoSubs
 9 11 29 333 10   69.4  0.296  0.778  0.008  244.  386.    -33.5  0.2160  0.72  0.24  2.60  293.0  15.0  283.8  2.0  0  0.00  54.  1008.    2 NAD-SFC NoSubs
 9 11 29 333 11   95.2  0.250  0.961  0.009  335.  300.    -14.7  0.1750  0.72  0.22  2.10  268.0  15.0  285.2  2.0  0  0.00  50.  1008.    2 NAD-SFC NoSubs
 9 11 29 333 12  107.0  0.307  1.081  0.008  425.  408.    -24.2  0.2160  0.72  0.21  2.60  274.0  15.0  287.1  2.0  0  0.00  44.  1008.    2 NAD-SFC NoSubs
 9 11 29 333 13  104.0  0.349  1.143  0.007  516.  495.    -36.8  0.2160  0.72  0.21  3.10  282.0  15.0  288.1  2.0  0  0.00  43.  1007.    2 NAD-SFC NoSubs
 9 11 29 333 14   86.5  0.362  1.118  0.006  581.  522.    -49.1  0.2720  0.72  0.23  3.10  307.0  15.0  288.8  2.0  0  0.00  43.  1007.    2 NAD-SFC NoSubs
 9 11 29 333 15   55.1  0.356  0.983  0.005  618.  509.    -73.4  0.2930  0.72  0.26  3.10  335.0  15.0  289.0  2.0  0  0.00  44.  1007.    2 NAD-SFC NoSubs
 9 11 29 333 16   13.0  0.284  0.610  0.005  626.  365.   -157.4  0.2930  0.72  0.36  2.60  353.0  15.0  288.6  2.0  0  0.00  51.  1007.    2 NAD-SFC NoSubs
 9 11 29 333 17  -16.4  0.200 -9.000 -9.000 -999.  218.     44.0  0.2940  0.72  0.67  2.10   13.0  15.0  287.8  2.0  0  0.00  54.  1007.    2 NAD-SFC NoSubs
 9 11 29 333 18   -1.6  0.083 -9.000 -9.000 -999.   68.     31.9  0.2470  0.72  1.00  0.50   36.0  15.0  286.8  2.0  0  0.00  58.  1007.    2 NAD-SFC NoSubs
 9 11 29 333 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  285.4  2.0  0  0.00  65.  1008.    2 NAD-SFC NoSubs
 9 11 29 333 20   -1.5  0.080 -9.000 -9.000 -999.   54.     31.3  0.1810  0.72  1.00  0.50  177.0  15.0  284.4  2.0  0  0.00  71.  1008.    2 NAD-SFC NoSubs
 9 11 29 333 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  283.5  2.0  0  0.00  75.  1009.    2 NAD-SFC NoSubs
 9 11 29 333 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  282.8  2.0  0  0.00  78.  1010.    2 NAD-SFC NoSubs
 9 11 29 333 23   -1.6  0.082 -9.000 -9.000 -999.   56.     31.7  0.2130  0.72  1.00  0.50   98.0  15.0  282.1  2.0  0  0.00  81.  1010.    2 NAD-SFC NoSubs
 9 11 29 333 24   -1.5  0.081 -9.000 -9.000 -999.   56.     31.6  0.1970  0.72  1.00  0.50  133.0  15.0  281.6  2.0  0  0.00  82.  1011.    2 NAD-SFC NoSubs
 9 11 30 334  1   -1.5  0.081 -9.000 -9.000 -999.   55.     31.5  0.1900  0.72  1.00  0.50  193.0  15.0  281.2  2.0  0  0.00  80.  1011.    2 NAD-SFC NoSubs
 9 11 30 334  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  281.1  2.0  0  0.00  78.  1011.    2 NAD-SFC NoSubs
 9 11 30 334  3   -1.7  0.085 -9.000 -9.000 -999.   60.     32.4  0.2940  0.72  1.00  0.50   12.0  15.0  280.6  2.0  0  0.00  79.  1011.    2 NAD-SFC NoSubs
 9 11 30 334  4   -8.5  0.140 -9.000 -9.000 -999.  126.     29.0  0.2940  0.72  1.00  1.50   10.0  15.0  280.0  2.0  0  0.00  82.  1011.    2 NAD-SFC NoSubs
 9 11 30 334  5   -8.5  0.140 -9.000 -9.000 -999.  126.     29.0  0.2940  0.72  1.00  1.50   18.0  15.0  279.5  2.0  0  0.00  85.  1011.    2 NAD-SFC NoSubs
 9 11 30 334  6   -8.5  0.140 -9.000 -9.000 -999.  126.     28.9  0.2940  0.72  1.00  1.50   17.0  15.0  279.2  2.0  0  0.00  86.  1012.    2 NAD-SFC NoSubs
 9 11 30 334  7   -4.1  0.102 -9.000 -9.000 -999.   78.     23.3  0.2720  0.72  1.00  1.00  311.0  15.0  278.8  2.0  0  0.00  86.  1012.    2 NAD-SFC NoSubs
 9 11 30 334  8  -11.3  0.187 -9.000 -9.000 -999.  194.     52.2  0.2160  0.72  0.49  2.10  284.0  15.0  278.5  2.0  0  0.00  84.  1012.    2 NAD-SFC NoSubs
 9 11 30 334  9   29.9  0.235  0.386  0.007   69.  273.    -39.2  0.2160  0.72  0.31  2.10  286.0  15.0  280.5  2.0  0  0.00  69.  1012.    2 NAD-SFC NoSubs
 9 11 30 334 10   68.3  0.199  0.695  0.007  178.  214.    -10.4  0.2160  0.72  0.24  1.50  298.0  15.0  282.5  2.0  0  0.00  58.  1012.    2 NAD-SFC NoSubs
 9 11 30 334 11   94.2  0.167  0.968  0.007  347.  164.     -4.5  0.2720  0.72  0.22  1.00  306.0  15.0  284.5  2.0  0  0.00  51.  1011.    2 NAD-SFC NoSubs
 9 11 30 334 12  106.0  0.111  1.139  0.007  503.   90.     -1.2  0.2720  0.72  0.21  0.50  305.0  15.0  286.2  2.0  0  0.00  47.  1010.    2 NAD-SFC NoSubs
 9 11 30 334 13  103.3 -9.000 -9.000 -9.000  625. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  287.8  2.0  0  0.00  41.  1009.    2 NAD-SFC NoSubs
 9 11 30 334 14   85.8 -9.000 -9.000 -9.000  698. -999. -99999.0  0.2235  0.72  0.23  0.00    0.0  15.0  288.5  2.0  0  0.00  39.  1009.    2 NAD-SFC NoSubs
 9 11 30 334 15   54.6 -9.000 -9.000 -9.000  738. -999. -99999.0  0.2235  0.72  0.26  0.00    0.0  15.0  288.9  2.0  0  0.00  39.  1008.    2 NAD-SFC NoSubs
 9 11 30 334 16   12.7 -9.000 -9.000 -9.000  746. -999. -99999.0  0.2235  0.72  0.36  0.00    0.0  15.0  288.8  2.0  0  0.00  42.  1008.    2 NAD-SFC NoSubs
 9 11 30 334 17   -1.5  0.080 -9.000 -9.000 -999.   54.     31.1  0.2130  0.72  0.67  0.50   94.0  15.0  287.8  2.0  0  0.00  47.  1008.    2 NAD-SFC NoSubs
 9 11 30 334 18   -1.5  0.081 -9.000 -9.000 -999.   56.     31.6  0.2130  0.72  1.00  0.50  106.0  15.0  286.5  2.0  0  0.00  53.  1008.    2 NAD-SFC NoSubs
 9 11 30 334 19   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.1970  0.72  1.00  0.50  126.0  15.0  285.1  2.0  0  0.00  59.  1007.    2 NAD-SFC NoSubs
 9 11 30 334 20   -1.5  0.082 -9.000 -9.000 -999.   56.     31.7  0.2130  0.72  1.00  0.50  115.0  15.0  284.0  2.0  0  0.00  64.  1007.    2 NAD-SFC NoSubs
 9 11 30 334 21   -1.5  0.082 -9.000 -9.000 -999.   56.     31.7  0.2090  0.72  1.00  0.50   71.0  15.0  283.0  2.0  0  0.00  68.  1007.    2 NAD-SFC NoSubs
 9 11 30 334 22   -1.5  0.082 -9.000 -9.000 -999.   56.     31.7  0.2090  0.72  1.00  0.50   74.0  15.0  282.1  2.0  0  0.00  73.  1007.    2 NAD-SFC NoSubs
 9 11 30 334 23   -1.6  0.082 -9.000 -9.000 -999.   56.     31.7  0.2090  0.72  1.00  0.50   80.0  15.0  281.4  2.0  0  0.00  75.  1007.    2 NAD-SFC NoSubs
 9 11 30 334 24   -1.6  0.082 -9.000 -9.000 -999.   56.     31.7  0.2090  0.72  1.00  0.50   84.0  15.0  280.8  2.0  0  0.00  77.  1006.    2 NAD-SFC NoSubs
 9 12  1 335  1   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0400  0.72  1.00  0.50   75.0  15.0  280.2  2.0  0  0.00  79.  1006.    2 NAD-SFC NoSubs
 9 12  1 335  2   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0400  0.72  1.00  0.50   81.0  15.0  279.9  2.0  0  0.00  80.  1005.    2 NAD-SFC NoSubs
 9 12  1 335  3   -1.0  0.068 -9.000 -9.000 -999.   42.     27.0  0.0310  0.72  1.00  0.50   92.0  15.0  279.8  2.0  0  0.00  80.  1005.    2 NAD-SFC NoSubs
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 9 12  1 335  4   -1.0  0.068 -9.000 -9.000 -999.   42.     27.0  0.0310  0.72  1.00  0.50   94.0  15.0 279.5  2.0   0  0.00  80. 1005.   2 NAD-SFC NoSubs
 9 12  1 335  5   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0400  0.72  1.00  0.50   71.0  15.0 279.2  2.0   0  0.00  80. 1005.   2 NAD-SFC NoSubs
 9 12  1 335  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 278.9  2.0   0  0.00  80. 1005.   2 NAD-SFC NoSubs
 9 12  1 335  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 278.6  2.0   0  0.00  81. 1005.   2 NAD-SFC NoSubs
 9 12  1 335  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.49  0.00    0.0  15.0 278.2  2.0   0  0.00  81. 1005.   2 NAD-SFC NoSubs
 9 12  1 335  9   29.6  0.073  0.378  0.014   65.   48.     -1.2  0.0800  0.72  0.30  0.50  318.0  15.0 279.2  2.0   0  0.00  77. 1006.   2 NAD-SFC NoSubs
 9 12  1 335 10   68.6  0.126  0.680  0.011  164.  107.     -2.6  0.0800  0.72  0.23  1.00  324.0  15.0 282.6  2.0   0  0.00  62. 1006.   2 NAD-SFC NoSubs
 9 12  1 335 11   94.9  0.086  0.929  0.009  303.   60.     -1.0  0.0800  0.72  0.21  0.50  325.0  15.0 284.2  2.0   0  0.00  59. 1006.   2 NAD-SFC NoSubs
 9 12  1 335 12  106.9  0.087  1.082  0.009  425.   62.     -1.0  0.0800  0.72  0.20  0.50  302.0  15.0 285.9  2.0   0  0.00  55. 1005.   2 NAD-SFC NoSubs
 9 12  1 335 13  104.1  0.087  1.147  0.008  519.   61.     -1.0  0.0800  0.72  0.21  0.50  303.0  15.0 287.2  2.0   0  0.00  51. 1004.   2 NAD-SFC NoSubs
 9 12  1 335 14   86.6  0.130  1.122  0.007  585.  112.     -2.2  0.0800  0.72  0.22  1.00  305.0  15.0 288.0  2.0   0  0.00  46. 1004.   2 NAD-SFC NoSubs
 9 12  1 335 15   55.0  0.161  0.986  0.007  624.  155.     -6.8  0.0800  0.72  0.25  1.50  316.0  15.0 288.2  2.0   0  0.00  46. 1003.   2 NAD-SFC NoSubs
 9 12  1 335 16   12.9  0.141  0.612  0.007  633.  127.    -19.4  0.0800  0.72  0.36  1.50  310.0  15.0 288.5  2.0   0  0.00  48. 1003.   2 NAD-SFC NoSubs
 9 12  1 335 17   -2.7  0.083 -9.000 -9.000 -999.   58.     19.3  0.0800  0.72  0.67  1.00  312.0  15.0 287.6  2.0   0  0.00  51. 1003.   2 NAD-SFC NoSubs
 9 12  1 335 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 286.4  2.0   0  0.00  56. 1003.   2 NAD-SFC NoSubs
 9 12  1 335 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 285.2  2.0   0  0.00  62. 1003.   2 NAD-SFC NoSubs
 9 12  1 335 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 284.2  2.0   0  0.00  67. 1004.   2 NAD-SFC NoSubs
 9 12  1 335 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 283.2  2.0   0  0.00  72. 1004.   2 NAD-SFC NoSubs
 9 12  1 335 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 282.4  2.0   0  0.00  76. 1004.   2 NAD-SFC NoSubs
 9 12  1 335 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 281.8  2.0   0  0.00  78. 1005.   2 NAD-SFC NoSubs
 9 12  1 335 24   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0420  0.72  1.00  0.50  284.0  15.0 281.4  2.0   0  0.00  80. 1005.   2 NAD-SFC NoSubs
 9 12  2 336  1   -1.1  0.069 -9.000 -9.000 -999.   44.     27.7  0.0420  0.72  1.00  0.50  276.0  15.0 281.0  2.0   0  0.00  81. 1005.   2 NAD-SFC NoSubs
 9 12  2 336  2   -2.5  0.079 -9.000 -9.000 -999.   54.     18.1  0.0420  0.72  1.00  1.00  292.0  15.0 280.8  2.0   0  0.00  82. 1005.   2 NAD-SFC NoSubs
 9 12  2 336  3   -4.4  0.095 -9.000 -9.000 -999.   70.     17.3  0.0420  0.72  1.00  1.50  291.0  15.0 280.6  2.0   0  0.00  81. 1006.   2 NAD-SFC NoSubs
 9 12  2 336  4  -10.1  0.145 -9.000 -9.000 -999.  132.     26.8  0.0800  0.72  1.00  2.10  304.0  15.0 280.4  2.0   0  0.00  80. 1006.   2 NAD-SFC NoSubs
 9 12  2 336  5  -15.8  0.182 -9.000 -9.000 -999.  186.     34.3  0.0800  0.72  1.00  2.60  301.0  15.0 280.2  2.0   0  0.00  79. 1006.   2 NAD-SFC NoSubs
 9 12  2 336  6   -8.4  0.128 -9.000 -9.000 -999.  110.     22.4  0.0420  0.72  1.00  2.10  297.0  15.0 280.1  2.0   0  0.00  78. 1007.   2 NAD-SFC NoSubs
 9 12  2 336  7   -5.3  0.105 -9.000 -9.000 -999.   82.     19.8  0.0800  0.72  1.00  1.50  305.0  15.0 279.9  2.0   0  0.00  78. 1007.   2 NAD-SFC NoSubs
 9 12  2 336  8   -3.3  0.091 -9.000 -9.000 -999.   66.     20.8  0.0420  0.72  0.50  1.50  291.0  15.0 279.6  2.0   0  0.00  76. 1007.   2 NAD-SFC NoSubs
 9 12  2 336  9   28.8  0.135  0.420  0.007   92.  120.     -7.8  0.0420  0.72  0.30  1.50  288.0  15.0 279.8  2.0   0  0.00  73. 1008.   2 NAD-SFC NoSubs
 9 12  2 336 10   67.5  0.169  0.752  0.006  226.  167.     -6.5  0.0950  0.72  0.23  1.50  331.0  15.0 281.1  2.0   0  0.00  61. 1008.   2 NAD-SFC NoSubs
 9 12  2 336 11   93.7  0.088  1.012  0.007  398.   65.     -1.0  0.0950  0.72  0.21  0.50  335.0  15.0 282.2  2.0   0  0.00  56. 1008.   2 NAD-SFC NoSubs
 9 12  2 336 12  105.7 -9.000 -9.000 -9.000  571. -999. -99999.0  0.0471  0.72  0.20  0.00    0.0  15.0 283.8  2.0   0  0.00  49. 1007.   2 NAD-SFC NoSubs
 9 12  2 336 13  102.8 -9.000 -9.000 -9.000  683. -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0 284.6  2.0   0  0.00  47. 1006.   2 NAD-SFC NoSubs
 9 12  2 336 14   85.3 -9.000 -9.000 -9.000  740. -999. -99999.0  0.0471  0.72  0.22  0.00    0.0  15.0 285.2  2.0   0  0.00  45. 1006.   2 NAD-SFC NoSubs
 9 12  2 336 15   53.9 -9.000 -9.000 -9.000  774. -999. -99999.0  0.0471  0.72  0.25  0.00    0.0  15.0 285.8  2.0   0  0.00  43. 1005.   2 NAD-SFC NoSubs
 9 12  2 336 16   11.8 -9.000 -9.000 -9.000  781. -999. -99999.0  0.0471  0.72  0.36  0.00    0.0  15.0 285.8  2.0   0  0.00  45. 1005.   2 NAD-SFC NoSubs
 9 12  2 336 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.67  0.00    0.0  15.0 285.0  2.0   0  0.00  49. 1005.   2 NAD-SFC NoSubs
 9 12  2 336 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 283.8  2.0   0  0.00  55. 1005.   2 NAD-SFC NoSubs
 9 12  2 336 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 282.5  2.0   0  0.00  62. 1005.   2 NAD-SFC NoSubs
 9 12  2 336 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 281.4  2.0   0  0.00  67. 1005.   2 NAD-SFC NoSubs
 9 12  2 336 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 280.5  2.0   0  0.00  72. 1005.   2 NAD-SFC NoSubs
 9 12  2 336 22   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0400  0.72  1.00  0.50   82.0  15.0 279.6  2.0   0  0.00  77. 1005.   2 NAD-SFC NoSubs
 9 12  2 336 23   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0400  0.72  1.00  0.50   83.0  15.0 278.8  2.0   0  0.00  82. 1005.   2 NAD-SFC NoSubs
 9 12  2 336 24   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0400  0.72  1.00  0.50   76.0  15.0 278.2  2.0   0  0.00  85. 1005.   2 NAD-SFC NoSubs
 9 12  3 337  1   -1.0  0.068 -9.000 -9.000 -999.   42.     27.0  0.0310  0.72  1.00  0.50   93.0  15.0 277.8  2.0   0  0.00  88. 1005.   2 NAD-SFC NoSubs
 9 12  3 337  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 277.2  2.0   0  0.00  89. 1006.   2 NAD-SFC NoSubs
 9 12  3 337  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 276.8  2.0   0  0.00  90. 1006.   2 NAD-SFC NoSubs
 9 12  3 337  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 276.5  2.0   0  0.00  91. 1006.   2 NAD-SFC NoSubs
 9 12  3 337  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 276.2  2.0   0  0.00  91. 1006.   2 NAD-SFC NoSubs
 9 12  3 337  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 276.0  2.0   0  0.00  90. 1007.   2 NAD-SFC NoSubs
 9 12  3 337  7   -1.1  0.070 -9.000 -9.000 -999.   44.     27.9  0.0420  0.72  1.00  0.50  280.0  15.0 275.8  2.0   0  0.00  88. 1008.   2 NAD-SFC NoSubs
 9 12  3 337  8   -0.7  0.057 -9.000 -9.000 -999.   33.     23.6  0.0420  0.72  0.50  0.50  284.0  15.0 275.9  2.0   0  0.00  84. 1008.   2 NAD-SFC NoSubs
 9 12  3 337  9   27.7  0.101  0.371  0.012   66.   78.     -3.4  0.0420  0.72  0.30  1.00  298.0  15.0 277.8  2.0   0  0.00  72. 1009.   2 NAD-SFC NoSubs
 9 12  3 337 10   66.5  0.147  0.703  0.011  188.  135.     -4.3  0.0420  0.72  0.24  1.50  298.0  15.0 280.2  2.0   0  0.00  62. 1009.   2 NAD-SFC NoSubs
 9 12  3 337 11   92.9  0.131  0.961  0.012  343.  113.     -2.2  0.0800  0.72  0.21  1.00  309.0  15.0 282.1  2.0   0  0.00  58. 1009.   2 NAD-SFC NoSubs
 9 12  3 337 12  105.0  0.132  1.090  0.012  443.  116.     -2.0  0.0800  0.72  0.20  1.00  307.0  15.0 283.9  2.0   0  0.00  52. 1008.   2 NAD-SFC NoSubs
 9 12  3 337 13  102.3  0.132  1.134  0.011  512.  115.     -2.0  0.0800  0.72  0.21  1.00  316.0  15.0 285.0  2.0   0  0.00  48. 1008.   2 NAD-SFC NoSubs
 9 12  3 337 14   84.9  0.174  1.100  0.010  563.  174.     -5.6  0.0950  0.72  0.22  1.50  337.0  15.0 285.8  2.0   0  0.00  46. 1008.   2 NAD-SFC NoSubs
 9 12  3 337 15   53.6  0.210  0.960  0.010  593.  232.    -15.6  0.0950  0.72  0.25  2.10  351.0  15.0 286.0  2.0   0  0.00  47. 1008.   2 NAD-SFC NoSubs
 9 12  3 337 16   11.6  0.224  0.579  0.010  599.  254.    -86.7  0.0950  0.72  0.36  2.60  356.0  15.0 285.8  2.0   0  0.00  52. 1008.   2 NAD-SFC NoSubs
 9 12  3 337 17    3.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.67  0.00    0.0  15.0 284.9  2.0   0  0.00  55. 1008.   2 NAD-SFC NoSubs
 9 12  3 337 18   -5.5  0.108 -9.000 -9.000 -999.   86.     20.8  0.0950  0.72  1.00  1.50  353.0  15.0 283.8  2.0   0  0.00  60. 1009.   2 NAD-SFC NoSubs
 9 12  3 337 19   -0.9  0.065 -9.000 -9.000 -999.   40.     25.8  0.0200  0.72  1.00  0.50  240.0  15.0 282.6  2.0   0  0.00  65. 1009.   2 NAD-SFC NoSubs
 9 12  3 337 20   -1.0  0.065 -9.000 -9.000 -999.   40.     25.9  0.0200  0.72  1.00  0.50  244.0  15.0 281.5  2.0   0  0.00  71. 1010.   2 NAD-SFC NoSubs
 9 12  3 337 21   -1.1  0.069 -9.000 -9.000 -999.   44.     27.7  0.0420  0.72  1.00  0.50  278.0  15.0 280.6  2.0   0  0.00  75. 1010.   2 NAD-SFC NoSubs
 9 12  3 337 22   -1.2  0.074 -9.000 -9.000 -999.   48.     29.4  0.0800  0.72  1.00  0.50  323.0  15.0 279.8  2.0   0  0.00  79. 1011.   2 NAD-SFC NoSubs
 9 12  3 337 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 279.2  2.0   0  0.00  82. 1011.   2 NAD-SFC NoSubs
 9 12  3 337 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 278.6  2.0   0  0.00  84. 1011.   2 NAD-SFC NoSubs
 9 12  4 338  1   -1.0  0.065 -9.000 -9.000 -999.   40.     26.0  0.0200  0.72  1.00  0.50  249.0  15.0 278.0  2.0   0  0.00  87. 1012.   2 NAD-SFC NoSubs
 9 12  4 338  2   -2.2  0.074 -9.000 -9.000 -999.   48.     16.7  0.0200  0.72  1.00  1.00  259.0  15.0 277.8  2.0   0  0.00  86. 1012.   2 NAD-SFC NoSubs
 9 12  4 338  3   -2.5  0.080 -9.000 -9.000 -999.   54.     18.1  0.0420  0.72  1.00  1.00  288.0  15.0 277.5  2.0   0  0.00  83. 1013.   2 NAD-SFC NoSubs
 9 12  4 338  4   -2.9  0.086 -9.000 -9.000 -999.   60.     19.6  0.0800  0.72  1.00  1.00  326.0  15.0 277.2  2.0   0  0.00  81. 1013.   2 NAD-SFC NoSubs
 9 12  4 338  5   -3.0  0.087 -9.000 -9.000 -999.   62.     20.0  0.0950  0.72  1.00  1.00  349.0  15.0 276.9  2.0   0  0.00  81. 1013.   2 NAD-SFC NoSubs
 9 12  4 338  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 276.4  2.0   0  0.00  81. 1013.   2 NAD-SFC NoSubs
 9 12  4 338  7   -1.3  0.076 -9.000 -9.000 -999.   50.     30.0  0.0960  0.72  1.00  0.50   10.0  15.0 276.0  2.0   0  0.00  81. 1013.   2 NAD-SFC NoSubs
 9 12  4 338  8   -0.9  0.063 -9.000 -9.000 -999.   38.     25.8  0.0960  0.72  0.51  0.50   17.0  15.0 275.8  2.0   0  0.00  81. 1014.   2 NAD-SFC NoSubs
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9	12	4	338	9	26.7	0.070	0.375	0.011	71.	44.	-1.1	0.0650	0.72	0.31	0.50	34.0	15.0	276.2	2.0	0	0.00	79.	1014.	2	NAD-SFC	NoSubs
9	12	4	338	10	65.5	0.129	0.681	0.008	174.	111.	-3.0	0.0950	0.72	0.24	1.00	351.0	15.0	279.1	2.0	0	0.00	59.	1013.	2	NAD-SFC	NoSubs
9	12	4	338	11	91.8	0.134	0.948	0.009	335.	118.	-2.4	0.0950	0.72	0.21	1.00	350.0	15.0	280.5	2.0	0	0.00	55.	1013.	2	NAD-SFC	NoSubs
9	12	4	338	12	104.0	0.136	1.114	0.011	480.	121.	-2.2	0.0950	0.72	0.20	1.00	353.0	15.0	282.0	2.0	0	0.00	51.	1012.	2	NAD-SFC	NoSubs
9	12	4	338	13	101.3	0.136	1.185	0.011	592.	120.	-2.2	0.0950	0.72	0.21	1.00	342.0	15.0	283.0	2.0	0	0.00	49.	1011.	2	NAD-SFC	NoSubs
9	12	4	338	14	84.0	0.174	1.157	0.011	665.	174.	-5.6	0.0950	0.72	0.22	1.50	342.0	15.0	283.6	2.0	0	0.00	48.	1011.	2	NAD-SFC	NoSubs
9	12	4	338	15	52.7	0.165	1.002	0.011	689.	161.	-7.7	0.0950	0.72	0.26	1.50	337.0	15.0	283.6	2.0	0	0.00	51.	1010.	2	NAD-SFC	NoSubs
9	12	4	338	16	10.8	0.106	0.593	0.011	693.	84.	-10.0	0.0950	0.72	0.36	1.00	347.0	15.0	283.2	2.0	0	0.00	54.	1009.	2	NAD-SFC	NoSubs
9	12	4	338	17	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	0.67	0.00	0.0	15.0	282.5	2.0	0	0.00	58.	1009.	2	NAD-SFC	NoSubs
9	12	4	338	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	281.8	2.0	0	0.00	62.	1009.	2	NAD-SFC	NoSubs
9	12	4	338	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	281.1	2.0	0	0.00	66.	1009.	2	NAD-SFC	NoSubs
9	12	4	338	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	280.8	2.0	0	0.00	69.	1009.	2	NAD-SFC	NoSubs
9	12	4	338	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	280.4	2.0	0	0.00	71.	1009.	2	NAD-SFC	NoSubs
9	12	4	338	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	280.1	2.0	0	0.00	73.	1009.	2	NAD-SFC	NoSubs
9	12	4	338	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	280.0	2.0	0	0.00	74.	1009.	2	NAD-SFC	NoSubs
9	12	4	338	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	279.8	2.0	0	0.00	75.	1008.	2	NAD-SFC	NoSubs
9	12	5	339	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	279.6	2.0	0	0.00	76.	1008.	2	NAD-SFC	NoSubs
9	12	5	339	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	279.6	2.0	0	0.00	76.	1007.	2	NAD-SFC	NoSubs
9	12	5	339	3	-1.0	0.068	-9.000	-9.000	-999.	42.	27.0	0.0310	0.72	1.00	0.50	104.0	15.0	279.6	2.0	0	0.00	75.	1007.	2	NAD-SFC	NoSubs
9	12	5	339	4	-2.3	0.076	-9.000	-9.000	-999.	50.	17.3	0.0280	0.72	1.00	1.00	121.0	15.0	279.5	2.0	0	0.00	74.	1006.	2	NAD-SFC	NoSubs
9	12	5	339	5	-2.3	0.076	-9.000	-9.000	-999.	50.	17.3	0.0280	0.72	1.00	1.00	128.0	15.0	279.2	2.0	0	0.00	74.	1005.	2	NAD-SFC	NoSubs
9	12	5	339	6	-1.0	0.067	-9.000	-9.000	-999.	42.	26.7	0.0280	0.72	1.00	0.50	123.0	15.0	279.1	2.0	0	0.00	74.	1005.	2	NAD-SFC	NoSubs
9	12	5	339	7	-1.0	0.067	-9.000	-9.000	-999.	42.	26.7	0.0280	0.72	1.00	0.50	142.0	15.0	279.0	2.0	0	0.00	75.	1005.	2	NAD-SFC	NoSubs
9	12	5	339	8	-0.7	0.056	-9.000	-9.000	-999.	32.	23.0	0.0280	0.72	0.51	0.50	145.0	15.0	278.5	2.0	0	0.00	77.	1004.	2	NAD-SFC	NoSubs
9	12	5	339	9	26.3	0.060	0.385	0.007	78.	35.	-1.0	0.0280	0.72	0.31	0.50	122.0	15.0	279.4	2.0	0	0.00	75.	1004.	2	NAD-SFC	NoSubs
9	12	5	339	10	65.3	-9.000	-9.000	-9.000	251.	-999.	-99999.0	0.0471	0.72	0.24	0.00	0.0	15.0	282.2	2.0	0	0.00	61.	1004.	2	NAD-SFC	NoSubs
9	12	5	339	11	91.8	-9.000	-9.000	-9.000	438.	-999.	-99999.0	0.0471	0.72	0.21	0.00	0.0	15.0	283.8	2.0	0	0.00	55.	1003.	2	NAD-SFC	NoSubs
9	12	5	339	12	104.0	-9.000	-9.000	-9.000	600.	-999.	-99999.0	0.0471	0.72	0.20	0.00	0.0	15.0	284.8	2.0	0	0.00	51.	1002.	2	NAD-SFC	NoSubs
9	12	5	339	13	101.4	0.077	1.259	0.008	703.	51.	-1.0	0.0420	0.72	0.21	0.50	288.0	15.0	285.6	2.0	0	0.00	49.	1001.	2	NAD-SFC	NoSubs
9	12	5	339	14	84.2	0.129	1.217	0.008	764.	111.	-2.3	0.0800	0.72	0.22	1.00	310.0	15.0	286.1	2.0	0	0.00	46.	1000.	2	NAD-SFC	NoSubs
9	12	5	339	15	53.0	0.204	1.060	0.008	801.	221.	-14.3	0.0800	0.72	0.26	2.10	324.0	15.0	286.2	2.0	0	0.00	46.	999.	2	NAD-SFC	NoSubs
9	12	5	339	16	11.3	0.217	0.635	0.008	808.	242.	-80.5	0.0800	0.72	0.36	2.60	326.0	15.0	285.9	2.0	0	0.00	52.	999.	2	NAD-SFC	NoSubs
9	12	5	339	17	-23.3	0.229	-9.000	-9.000	-999.	262.	45.7	0.0950	0.72	0.67	3.10	338.0	15.0	284.9	2.0	0	0.00	56.	998.	2	NAD-SFC	NoSubs
9	12	5	339	18	-23.8	0.228	-9.000	-9.000	-999.	262.	44.6	0.0950	0.72	1.00	3.10	347.0	15.0	283.8	2.0	0	0.00	60.	999.	2	NAD-SFC	NoSubs
9	12	5	339	19	-10.5	0.150	-9.000	-9.000	-999.	141.	28.8	0.0950	0.72	1.00	2.10	345.0	15.0	282.8	2.0	0	0.00	64.	999.	3	NAD-SFC	NoSubs
9	12	5	339	20	-2.4	0.078	-9.000	-9.000	-999.	54.	17.9	0.0420	0.72	1.00	1.00	291.0	15.0	281.8	2.0	0	0.00	68.	999.	3	NAD-SFC	NoSubs
9	12	5	339	21	-4.3	0.095	-9.000	-9.000	-999.	70.	17.4	0.0420	0.72	1.00	1.50	285.0	15.0	280.9	2.0	0	0.00	71.	1000.	3	NAD-SFC	NoSubs
9	12	5	339	22	-9.9	0.145	-9.000	-9.000	-999.	132.	27.2	0.0800	0.72	1.00	2.10	306.0	15.0	280.2	2.0	0	0.00	75.	1000.	3	NAD-SFC	NoSubs
9	12	5	339	23	-10.0	0.145	-9.000	-9.000	-999.	132.	27.1	0.0800	0.72	1.00	2.10	316.0	15.0	279.5	2.0	0	0.00	79.	1000.	3	NAD-SFC	NoSubs
9	12	5	339	24	-10.0	0.145	-9.000	-9.000	-999.	132.	27.1	0.0800	0.72	1.00	2.10	310.0	15.0	278.8	2.0	0	0.00	83.	1000.	3	NAD-SFC	NoSubs
9	12	6	340	1	-5.2	0.105	-9.000	-9.000	-999.	82.	20.0	0.0800	0.72	1.00	1.50	310.0	15.0	278.1	2.0	0	0.00	85.	1001.	3	NAD-SFC	NoSubs
9	12	6	340	2	-5.2	0.105	-9.000	-9.000	-999.	82.	19.9	0.0800	0.72	1.00	1.50	304.0	15.0	277.4	2.0	0	0.00	86.	1001.	3	NAD-SFC	NoSubs
9	12	6	340	3	-4.4	0.095	-9.000	-9.000	-999.	70.	17.4	0.0420	0.72	1.00	1.50	298.0	15.0	276.8	2.0	0	0.00	86.	1001.	3	NAD-SFC	NoSubs
9	12	6	340	4	-4.4	0.095	-9.000	-9.000	-999.	70.	17.4	0.0420	0.72	1.00	1.50	298.0	15.0	276.2	2.0	0	0.00	85.	1001.	3	NAD-SFC	NoSubs
9	12	6	340	5	-5.2	0.105	-9.000	-9.000	-999.	82.	19.9	0.0800	0.72	1.00	1.50	314.0	15.0	275.9	2.0	0	0.00	84.	1001.	3	NAD-SFC	NoSubs
9	12	6	340	6	-5.3	0.105	-9.000	-9.000	-999.	82.	19.8	0.0800	0.72	1.00	1.50	308.0	15.0	275.4	2.0	0	0.00	82.	1002.	2	NAD-SFC	NoSubs
9	12	6	340	7	-5.3	0.105	-9.000	-9.000	-999.	82.	19.8	0.0800	0.72	1.00	1.50	314.0	15.0	275.0	2.0	0	0.00	80.	1002.	2	NAD-SFC	NoSubs
9	12	6	340	8	-2.1	0.076	-9.000	-9.000	-999.	51.	18.8	0.0800	0.72	0.52	1.00	306.0	15.0	274.8	2.0	0	0.00	79.	1003.	2	NAD-SFC	NoSubs
9	12	6	340	9	25.1	0.154	0.430	0.009	114.	145.	-13.0	0.0950	0.72	0.31	1.50	334.0	15.0	275.9	2.0	0	0.00	64.	1003.	2	NAD-SFC	NoSubs
9	12	6	340	10	63.7	0.081	0.722	0.007	211.	57.	-1.0	0.0800	0.72	0.24	0.50	316.0	15.0	277.4	2.0	0	0.00	57.	1003.	2	NAD-SFC	NoSubs
9	12	6	340	11	90.2	-9.000	-9.000	-9.000	345.	-999.	-99999.0	0.0471	0.72	0.21	0.00	0.0	15.0	279.2	2.0	0	0.00	51.	1003.	2	NAD-SFC	NoSubs
9	12	6	340	12	102.5	-9.000	-9.000	-9.000	491.	-999.	-99999.0	0.0471	0.72	0.21	0.00	0.0	15.0	280.8	2.0	0	0.00	47.	1002.	2	NAD-SFC	NoSubs
9	12	6	340	13	100.0	0.076	1.200	0.005	618.	51.	-1.0	0.0420	0.72	0.21	0.50	291.0	15.0	281.8	2.0	0	0.00	48.	1002.	2	NAD-SFC	NoSubs
9	12	6	340	14	82.9	0.129	1.206	0.006	756.	111.	-2.3	0.0800	0.72	0.22	1.00	313.0	15.0	282.2	2.0	0	0.00	47.	1002.	2	NAD-SFC	NoSubs
9	12	6	340	15	51.8	0.165	1.073	0.007	852.	161.	-7.7	0.0950	0.72	0.26	1.50	338.0	15.0	282.2	2.0	0	0.00	46.	1001.	2	NAD-SFC	NoSubs
9	12	6	340	16	11.9	0.144	0.662	0.007	872.	132.	-22.6	0.0950	0.72	0.36	1.50	348.0	15.0	282.0	2.0	0	0.00	56.	1001.	3	NAD-SFC	NoSubs
9	12	6	340	17	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	0.67	0.00	0.0	15.0	281.5	2.0	0	0.00	57.	1001.	3	NAD-SFC	NoSubs
9	12	6	340	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	281.0	2.0	0	0.00	61.	1001.	3	NAD-SFC	NoSubs
9	12	6	340	19	-0.9	0.064	-9.000	-9.000	-999.	39.	25.7	0.0240	0.72	1.00	0.50	172.0	15.0	280.6	2.0	0	0.00	64.	1001.	4	NAD-SFC	NoSubs
9	12	6	340	20	-1.8	0.068	-9.000	-9.000	-999.	43.	16.0	0.0240	0.72	1.00	1.00	174.0	15.0	280.4	2.0	0	0.00	67.	1001.	7	NAD-SFC	NoSubs
9	12	6	340	21	-2.6	0.083	-9.000	-9.000	-999.	58.	19.6	0.0240	0.72	1.00	1.50	159.0	15.0	280.2	2.0	0	0.00	69.	1001.	10	NAD-SFC	NoSubs
9	12	6	340	22	-8.6	0.154	-9.000	-9.000	-999.	145.	38.0	0.0280	0.72	1.00	2.60	143.0	15.0	280.2	2.0	0	0.00	72.	1001.	10	NAD-SFC	NoSubs
9	12	6	340	23	-12.2	0.217	-9.000	-9.000	-999.	242.	74.4	0.0280	0.72	1.00	3.60	142.0	15.0	279.9	2.0	0	0.00	79.	1001.	10	NAD-SFC	NoSubs
9	12	6	340	24	-10.4	0.185	-9.000	-9.000	-999.	192.	54.4	0.0280	0.72	1.00	3.10	136.0	15.0	279.6	2.0	0	0.51	86.	1001.	10	NAD-SFC	NoSubs
9	12	7	341	1	-10.4	0.185	-9.000	-9.000	-999.	191.	54.4	0.0280	0.72	1.00	3.10	126.0	15.0	279.5	2.0	0	1.52	91.	1000.	10	NAD-SFC	NoSubs
9	12	7	341	2	-12.2	0.217	-9.000	-9.000	-999.	242.	74.4	0.0280	0.72	1.00	3.60	120.0	15.0	279.6	2.0	0	1.52	93.	999.	10	NAD-SFC	NoSubs
9	12	7	341	3	-13.9	0.248	-9.000	-9.000	-999.	296.	97.5	0.0280	0.72	1.00	4.10	120.0	15.0	279.8	2.0	0	1.52	94.	999.	10	NAD-SFC	NoSubs
9	12	7	341	4	-14.2	0.252	-9.000	-9.000	-999.	304.	101.0	0.0310	0.72	1.00	4.10	116.0	15.0	280.0	2.0	0	1.78	95.	998.	10	NAD-SFC	NoSubs
9	12	7	341	5	-13.9	0.248	-9.000	-9.000	-999.	297.	97.7	0.0280	0.72	1.00	4.10	124.0	15.0	280.1	2.0	0	1.78	96.	997.	10	NAD-SFC	NoSubs
9	12	7	341	6	-12.1	0.217	-9.000	-9.000	-999.	242.	74.5	0.0280	0.72	1.00	3.60	130.0	15.0	280.2	2.0	0	2.29	96.	996.	10	NAD-SFC	NoSubs
9	12	7	341	7	-5.5	0.122	-9.000	-9.000	-999.	106.	29.7	0.0280	0.72	1.00	2.10	135.0	15.0	280.2	2.0	0	2.54	97.	996.	10	NAD-SFC	NoSubs
9	12	7	341	8	-1.7	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	0.52	0.00	0.0	15.0	280.2	2.0	0	2.79	99.	996.	10	NAD-SFC	NoSubs
9	12	7	341	9	2.1	0.173	0.136	0.005	42.	173.	-221.8	0.0950	0.72	0.31	2.10	334.0	15.0	280.0	2.0	0	2.54	100.	995.	10	NAD-SFC	NoSubs
9	12	7	341	10	11.8	0.253	0.337	0.005	115.	305.	-121.8	0.0800	0.72	0.24	3.10	327.0	15.0	280.2	2.0	0	1.78	100.	995.	10	NAD-SFC	NoSubs
9	12	7	341	11	61.2	0.432	0.792	0.005	288.	681.	-116.8	0.0950	0.72	0.21	5.10	334.0	15.0	281.0	2.0	0	1.02	92.	995.	8	NAD-SFC	NoSubs
9	12	7	341	12	83.8	0.482	1.021	0.005	451.	803.	-118.8	0.0950	0.72	0.21	5.70	336.0	15.0	281.6	2.0	0	0.51	83.	995.	7	NAD-SFC	NoSubs
9	12	7	341	13	81.8	0.438	1.112	0.005	596.	698.	-91.1	0.0950	0.72	0.21	5.10	339.0	15.0	281.8	2.0	0	0.25	80.	995.	7	NAD-SFC	NoSubs

9	12	7	341	14	81.1	0.365	1.176	0.005	711.	532.	-53.0	0.0950	0.72	0.22	4.10	344.0	15.0	281.9	2.0	0	0.00	76.	994.	5	NAD-SFC	NoSubs
9	12	7	341	15	53.2	0.356	1.053	0.005	777.	510.	-75.1	0.0950	0.72	0.26	4.10	344.0	15.0	282.1	2.0	0	0.00	73.	994.	4	NAD-SFC	NoSubs
9	12	7	341	16	13.6	0.262	0.673	0.005	793.	327.	-117.4	0.0950	0.72	0.36	3.10	342.0	15.0	282.0	2.0	0	0.00	76.	994.	5	NAD-SFC	NoSubs
9	12	7	341	17	-19.3	0.222	-9.000	-9.000	-999.	251.	50.0	0.0800	0.72	0.67	3.10	323.0	15.0	281.2	2.0	0	0.00	81.	994.	6	NAD-SFC	NoSubs
9	12	7	341	18	-22.4	0.229	-9.000	-9.000	-999.	263.	47.7	0.0420	0.72	1.00	3.60	291.0	15.0	280.8	2.0	0	0.00	83.	995.	5	NAD-SFC	NoSubs
9	12	7	341	19	-29.0	0.296	-9.000	-9.000	-999.	387.	79.6	0.0420	0.72	1.00	4.60	298.0	15.0	280.2	2.0	0	0.00	82.	996.	5	NAD-SFC	NoSubs
9	12	7	341	20	-38.8	0.458	-9.000	-9.000	-999.	744.	220.0	0.0800	0.72	1.00	6.20	316.0	15.0	279.6	2.0	0	0.00	79.	997.	7	NAD-SFC	NoSubs
9	12	7	341	21	-42.2	0.457	-9.000	-9.000	-999.	742.	201.4	0.0800	0.72	1.00	6.20	326.0	15.0	279.0	2.0	0	0.00	78.	998.	6	NAD-SFC	NoSubs
9	12	7	341	22	-43.4	0.418	-9.000	-9.000	-999.	649.	149.7	0.0800	0.72	1.00	5.70	329.0	15.0	278.6	2.0	0	0.00	79.	999.	4	NAD-SFC	NoSubs
9	12	7	341	23	-40.2	0.385	-9.000	-9.000	-999.	575.	127.0	0.0950	0.72	1.00	5.10	335.0	15.0	277.8	2.0	0	0.00	80.	1000.	4	NAD-SFC	NoSubs
9	12	7	341	24	-32.2	0.296	-9.000	-9.000	-999.	391.	72.0	0.0800	0.72	1.00	4.10	317.0	15.0	276.8	2.0	0	0.00	84.	1001.	3	NAD-SFC	NoSubs
9	12	8	342	1	-28.2	0.258	-9.000	-9.000	-999.	316.	54.5	0.0800	0.72	1.00	3.60	306.0	15.0	275.8	2.0	0	0.00	85.	1002.	3	NAD-SFC	NoSubs
9	12	8	342	2	-15.7	0.182	-9.000	-9.000	-999.	189.	34.5	0.0800	0.72	1.00	2.60	308.0	15.0	275.2	2.0	0	0.00	85.	1003.	3	NAD-SFC	NoSubs
9	12	8	342	3	-10.1	0.145	-9.000	-9.000	-999.	132.	26.9	0.0800	0.72	1.00	2.10	310.0	15.0	274.8	2.0	0	0.00	85.	1004.	3	NAD-SFC	NoSubs
9	12	8	342	4	-5.2	0.105	-9.000	-9.000	-999.	82.	19.9	0.0800	0.72	1.00	1.50	309.0	15.0	274.2	2.0	0	0.00	84.	1005.	3	NAD-SFC	NoSubs
9	12	8	342	5	-5.3	0.105	-9.000	-9.000	-999.	82.	19.9	0.0800	0.72	1.00	1.50	311.0	15.0	273.9	2.0	0	0.00	84.	1006.	3	NAD-SFC	NoSubs
9	12	8	342	6	-4.5	0.095	-9.000	-9.000	-999.	70.	17.3	0.0420	0.72	1.00	1.50	293.0	15.0	273.4	2.0	0	0.00	84.	1007.	3	NAD-SFC	NoSubs
9	12	8	342	7	-4.5	0.095	-9.000	-9.000	-999.	70.	17.3	0.0420	0.72	1.00	1.50	285.0	15.0	273.0	2.0	0	0.00	83.	1008.	3	NAD-SFC	NoSubs
9	12	8	342	8	-1.9	0.072	-9.000	-9.000	-999.	46.	17.1	0.0420	0.72	0.53	1.00	281.0	15.0	272.6	2.0	0	0.00	83.	1009.	2	NAD-SFC	NoSubs
9	12	8	342	9	23.4	0.111	0.483	0.005	174.	89.	-5.3	0.0800	0.72	0.31	1.00	322.0	15.0	273.8	2.0	0	0.00	74.	1010.	2	NAD-SFC	NoSubs
9	12	8	342	10	62.0	-9.000	-9.000	-9.000	308.	-999.	-99999.0	0.0471	0.72	0.24	0.00	0.0	15.0	275.2	2.0	0	0.00	65.	1010.	2	NAD-SFC	NoSubs
9	12	8	342	11	88.6	-9.000	-9.000	-9.000	459.	-999.	-99999.0	0.0471	0.72	0.21	0.00	0.0	15.0	276.5	2.0	0	0.00	58.	1010.	2	NAD-SFC	NoSubs
9	12	8	342	12	100.9	-9.000	-9.000	-9.000	655.	-999.	-99999.0	0.0471	0.72	0.21	0.00	0.0	15.0	277.5	2.0	0	0.00	53.	1010.	2	NAD-SFC	NoSubs
9	12	8	342	13	98.6	0.086	1.331	0.005	862.	61.	-1.0	0.0800	0.72	0.21	0.50	306.0	15.0	278.5	2.0	0	0.00	48.	1009.	2	NAD-SFC	NoSubs
9	12	8	342	14	81.6	0.129	1.312	0.005	996.	111.	-2.3	0.0800	0.72	0.22	1.00	315.0	15.0	279.1	2.0	0	0.00	44.	1008.	2	NAD-SFC	NoSubs
9	12	8	342	15	50.9	0.160	1.144	0.005	1058.	153.	-7.2	0.0800	0.72	0.26	1.50	306.0	15.0	279.4	2.0	0	0.00	42.	1008.	2	NAD-SFC	NoSubs
9	12	8	342	16	9.5	0.180	0.657	0.005	1069.	183.	-54.7	0.0800	0.72	0.36	2.10	327.0	15.0	279.2	2.0	0	0.00	43.	1008.	2	NAD-SFC	NoSubs
9	12	8	342	17	-16.5	0.189	-9.000	-9.000	-999.	197.	36.8	0.0950	0.72	0.67	2.60	346.0	15.0	278.6	2.0	0	0.00	47.	1008.	2	NAD-SFC	NoSubs
9	12	8	342	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	277.8	2.0	0	0.00	51.	1009.	2	NAD-SFC	NoSubs
9	12	8	342	19	-9.6	0.139	-9.000	-9.000	-999.	124.	25.0	0.0650	0.72	1.00	2.10	35.0	15.0	276.8	2.0	0	0.00	55.	1009.	2	NAD-SFC	NoSubs
9	12	8	342	20	-4.5	0.095	-9.000	-9.000	-999.	70.	17.1	0.0400	0.72	1.00	1.50	72.0	15.0	275.8	2.0	0	0.00	60.	1010.	2	NAD-SFC	NoSubs
9	12	8	342	21	-2.4	0.077	-9.000	-9.000	-999.	52.	17.5	0.0310	0.72	1.00	1.00	112.0	15.0	274.8	2.0	0	0.00	65.	1010.	2	NAD-SFC	NoSubs
9	12	8	342	22	-2.3	0.077	-9.000	-9.000	-999.	51.	17.3	0.0280	0.72	1.00	1.00	130.0	15.0	274.0	2.0	0	0.00	70.	1011.	2	NAD-SFC	NoSubs
9	12	8	342	23	-2.4	0.078	-9.000	-9.000	-999.	52.	17.5	0.0310	0.72	1.00	1.00	118.0	15.0	273.4	2.0	0	0.00	74.	1011.	2	NAD-SFC	NoSubs
9	12	8	342	24	-2.4	0.077	-9.000	-9.000	-999.	51.	17.4	0.0280	0.72	1.00	1.00	123.0	15.0	272.8	2.0	0	0.00	78.	1011.	2	NAD-SFC	NoSubs
9	12	9	343	1	-4.2	0.090	-9.000	-9.000	-999.	65.	16.0	0.0280	0.72	1.00	1.50	133.0	15.0	272.2	2.0	0	0.00	81.	1011.	2	NAD-SFC	NoSubs
9	12	9	343	2	-2.4	0.077	-9.000	-9.000	-999.	51.	17.4	0.0280	0.72	1.00	1.00	122.0	15.0	271.9	2.0	0	0.00	83.	1011.	2	NAD-SFC	NoSubs
9	12	9	343	3	-2.4	0.078	-9.000	-9.000	-999.	52.	17.6	0.0310	0.72	1.00	1.00	102.0	15.0	271.4	2.0	0	0.00	85.	1011.	2	NAD-SFC	NoSubs
9	12	9	343	4	-1.1	0.070	-9.000	-9.000	-999.	45.	27.9	0.0400	0.72	1.00	0.50	71.0	15.0	271.0	2.0	0	0.00	87.	1011.	2	NAD-SFC	NoSubs
9	12	9	343	5	-1.1	0.070	-9.000	-9.000	-999.	45.	27.9	0.0400	0.72	1.00	0.50	74.0	15.0	270.5	2.0	0	0.00	89.	1011.	2	NAD-SFC	NoSubs
9	12	9	343	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	270.1	2.0	0	0.00	90.	1011.	2	NAD-SFC	NoSubs
9	12	9	343	7	-1.1	0.069	-9.000	-9.000	-999.	43.	27.3	0.0310	0.72	1.00	0.50	106.0	15.0	269.8	2.0	0	0.00	91.	1012.	2	NAD-SFC	NoSubs
9	12	9	343	8	10.7	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	0.53	0.00	0.0	15.0	269.5	2.0	0	0.00	91.	1012.	2	NAD-SFC	NoSubs
9	12	9	343	9	22.5	-9.000	-9.000	-9.000	79.	-999.	-99999.0	0.0471	0.72	0.32	0.00	0.0	15.0	271.2	2.0	0	0.00	81.	1012.	2	NAD-SFC	NoSubs
9	12	9	343	10	61.3	-9.000	-9.000	-9.000	235.	-999.	-99999.0	0.0471	0.72	0.24	0.00	0.0	15.0	274.1	2.0	0	0.00	66.	1012.	2	NAD-SFC	NoSubs
9	12	9	343	11	87.9	-9.000	-9.000	-9.000	450.	-999.	-99999.0	0.0471	0.72	0.21	0.00	0.0	15.0	275.9	2.0	0	0.00	57.	1012.	2	NAD-SFC	NoSubs
9	12	9	343	12	100.4	0.086	1.175	0.009	583.	61.	-1.0	0.0800	0.72	0.21	0.50	319.0	15.0	277.4	2.0	0	0.00	48.	1011.	2	NAD-SFC	NoSubs
9	12	9	343	13	98.2	0.136	1.226	0.010	676.	120.	-2.3	0.0950	0.72	0.21	1.00	331.0	15.0	278.4	2.0	0	0.00	45.	1010.	2	NAD-SFC	NoSubs
9	12	9	343	14	81.4	0.173	1.177	0.010	721.	173.	-5.7	0.0950	0.72	0.22	1.50	345.0	15.0	279.2	2.0	0	0.00	42.	1009.	2	NAD-SFC	NoSubs
9	12	9	343	15	50.7	0.165	1.018	0.009	748.	160.	-7.9	0.0950	0.72	0.26	1.50	355.0	15.0	279.5	2.0	0	0.00	41.	1009.	2	NAD-SFC	NoSubs
9	12	9	343	16	9.4	0.142	0.583	0.009	753.	128.	-27.2	0.0960	0.72	0.36	1.50	3.0	15.0	279.2	2.0	0	0.00	44.	1008.	2	NAD-SFC	NoSubs
9	12	9	343	17	4.1	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	0.67	0.00	0.0	15.0	278.6	2.0	0	0.00	48.	1008.	2	NAD-SFC	NoSubs
9	12	9	343	18	-1.3	0.075	-9.000	-9.000	-999.	50.	29.9	0.0950	0.72	1.00	0.50	344.0	15.0	278.0	2.0	0	0.00	51.	1008.	2	NAD-SFC	NoSubs
9	12	9	343	19	-1.2	0.074	-9.000	-9.000	-999.	49.	29.5	0.0800	0.72	1.00	0.50	324.0	15.0	277.2	2.0	0	0.00	55.	1008.	2	NAD-SFC	NoSubs
9	12	9	343	20	-1.2	0.074	-9.000	-9.000	-999.	49.	29.5	0.0800	0.72	1.00	0.50	324.0	15.0	276.8	2.0	0	0.00	58.	1009.	2	NAD-SFC	NoSubs
9	12	9	343	21	-1.3	0.074	-9.000	-9.000	-999.	49.	29.5	0.0800	0.72	1.00	0.50	321.0	15.0	276.5	2.0	0	0.00	60.	1009.	2	NAD-SFC	NoSubs
9	12	9	343	22	-1.3	0.076	-9.000	-9.000	-999.	50.	29.9	0.0950	0.72	1.00	0.50	335.0	15.0	276.4	2.0	0	0.00	61.	1009.	2	NAD-SFC	NoSubs
9	12	9	343	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	276.4	2.0	0	0.00	61.	1010.	2	NAD-SFC	NoSubs
9	12	9	343	24	-1.3	0.076	-9.000	-9.000	-999.	50.	30.0	0.0960	0.72	1.00	0.50	17.0	15.0	276.4	2.0	0	0.00	62.	1010.	2	NAD-SFC	NoSubs
9	12	10	344	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	276.2	2.0	0	0.00	63.	1010.	2	NAD-SFC	NoSubs
9	12	10	344	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	276.2	2.0	0	0.00	64.	1009.	2	NAD-SFC	NoSubs
9	12	10	344	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	276.2	2.0	0	0.00	65.	1009.	2	NAD-SFC	NoSubs
9	12	10	344	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	276.2	2.0	0	0.00	65.	1009.	2	NAD-SFC	NoSubs
9	12	10	344	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	276.2	2.0	0	0.00	66.	1010.	2	NAD-SFC	NoSubs
9	12	10	344	6	-1.3	0.076	-9.000	-9.000	-999.	50.	30.0	0.0950	0.72	1.00	0.50	333.0	15.0	276.2	2.0	0	0.00	66.	1010.	2	NAD-SFC	NoSubs
9	12	10	344	7	-5.6	0.109	-9.000	-9.000	-999.	86.	20.6	0.0950	0.72	1.00	1.50	342.0	15.0	276.1	2.0	0	0.00	66.	1010.	2	NAD-SFC	NoSubs
9	12	10	344	8	-4.8	0.107	-9.000	-9.000	-999.	84.	23.0	0.0950	0.72	0.54	1.50	343.0	15.0	275.8	2.0	0	0.00	65.	1010.	2	NAD-SFC	NoSubs
9	12	10	344	9	22.3	0.196	0.401	0.010	104.	208.	-30.4	0.0950	0.72	0.32	2.10	342.0	15.0	276.8	2.0	0	0.00	53.	1010.	2	NAD-SFC	NoSubs
9	12	10	344	10	61.1	0.163	0.717	0.010	218.	158.	-6.3	0.0800	0.72	0.24	1.50	326.0	15.0	278.0	2.0	0	0.00	50.	1010.	2	NAD-SFC	NoSubs
9	12	10	344	11	87.9	0.087	0.941	0.009	342.	64.	-1.0	0.0950	0.72	0.22	0.50	343.0	15.0	279.9	2.0	0	0.00	45.	1010.	2	NAD-SFC	NoSubs
9	12	10	344	12	101.5	0.089	1.080	0.008	446.	64.	-1.0	0.0950	0.72	0.21	0.50	336.0	15.0	281.9	2.0	0	0.00	41.	1009.	3	NAD-SFC	NoSubs
9	12	10	344	13	99.5	0.086	1.137	0.008	531.	61.	-1.0	0.0800	0.72	0.21	0.50	316.0	15.0	283.2	2.0	0	0.00	39.	1008.	3	NAD-SFC	NoSubs
9	12	10	344	14	83.0	0.129	1.110	0.008	592.	111.	-2.3	0.0800	0.72	0.22	1.00	310.0	15.0	283.6	2.0	0	0.00	40.	1007.	3	NAD-SFC	NoSubs
9	12	10	344	15	52.6	0.204	0.972	0.008	628.	221.	-14.4	0.0800	0.72	0.26	2.10	325.0	15.0	283.4	2.0	0	0.00	44.	1007.	3	NAD-SFC	NoSubs
9	12	10	344	16	11.7	0.188	0.592	0.008	635.	195.	-50.4	0.0950	0.72	0.36	2.10	331.0	15.0	282.8	2.0	0	0.00	48.	1006.	3	NAD-SFC	NoSubs
9	12	10	344	17	-5.3	0.108	-9.000	-9.000	-999.	87.	21.2	0.0950	0.72	0.67	1.50	338.0	15.0	282.2	2.0	0	0.00	51.	1006.	3	NAD-SFC	NoSubs
9	12	10	344	18	-5.3	0.108	-9.000	-9.000	-999.	85.	21.1	0.0950	0.72	1.00	1.50	351.0	15.0	281.8	2.0	0	0.00	53.	1006.	4	NAD-SFC	NoSubs

9	12	10	344	19	-1.1	0.072	-9.000	-9.000	-999.	46.	28.6	0.0950	0.72	1.00	0.50	348.0	15.0	281.4	2.0	0	0.00	55.	1006.	5	NAD-SFC	NoSubs
9	12	10	344	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	281.1	2.0	0	0.00	60.	1006.	7	NAD-SFC	NoSubs
9	12	10	344	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	281.0	2.0	0	0.00	63.	1006.	6	NAD-SFC	NoSubs
9	12	10	344	22	-1.0	0.068	-9.000	-9.000	-999.	43.	27.5	0.0800	0.72	1.00	0.50	306.0	15.0	281.8	2.0	0	0.00	61.	1006.	6	NAD-SFC	NoSubs
9	12	10	344	23	-2.4	0.080	-9.000	-9.000	-999.	54.	19.4	0.0950	0.72	1.00	1.00	344.0	15.0	282.2	2.0	0	0.00	60.	1007.	7	NAD-SFC	NoSubs
9	12	10	344	24	-13.1	0.232	-9.000	-9.000	-999.	269.	86.1	0.0950	0.72	1.00	3.10	344.0	15.0	281.2	2.0	0	0.25	70.	1006.	10	NAD-SFC	NoSubs
9	12	11	345	1	-13.1	0.232	-9.000	-9.000	-999.	269.	85.9	0.0950	0.72	1.00	3.10	351.0	15.0	280.5	2.0	0	0.76	82.	1007.	10	NAD-SFC	NoSubs
9	12	11	345	2	-13.2	0.233	-9.000	-9.000	-999.	270.	86.2	0.0960	0.72	1.00	3.10	8.0	15.0	280.2	2.0	0	1.02	87.	1006.	10	NAD-SFC	NoSubs
9	12	11	345	3	-15.4	0.272	-9.000	-9.000	-999.	341.	117.7	0.0960	0.72	1.00	3.60	10.0	15.0	280.2	2.0	0	0.76	88.	1006.	10	NAD-SFC	NoSubs
9	12	11	345	4	-15.4	0.272	-9.000	-9.000	-999.	341.	117.6	0.0960	0.72	1.00	3.60	12.0	15.0	280.1	2.0	0	0.76	90.	1006.	10	NAD-SFC	NoSubs
9	12	11	345	5	-13.2	0.233	-9.000	-9.000	-999.	270.	86.1	0.0960	0.72	1.00	3.10	5.0	15.0	280.0	2.0	0	1.02	91.	1006.	10	NAD-SFC	NoSubs
9	12	11	345	6	-10.9	0.193	-9.000	-9.000	-999.	204.	59.3	0.0950	0.72	1.00	2.60	340.0	15.0	279.9	2.0	0	1.02	92.	1006.	10	NAD-SFC	NoSubs
9	12	11	345	7	-3.9	0.107	-9.000	-9.000	-999.	87.	28.2	0.0950	0.72	1.00	1.50	343.0	15.0	280.2	2.0	0	0.51	91.	1006.	10	NAD-SFC	NoSubs
9	12	11	345	8	-0.5	0.049	-9.000	-9.000	-999.	27.	20.9	0.0400	0.72	0.54	0.50	62.0	15.0	280.8	2.0	0	0.51	89.	1007.	10	NAD-SFC	NoSubs
9	12	11	345	9	1.5	0.042	0.106	0.009	28.	21.	-4.4	0.0220	0.72	0.32	0.50	219.0	15.0	280.9	2.0	0	0.51	90.	1007.	10	NAD-SFC	NoSubs
9	12	11	345	10	11.3	0.051	0.294	0.008	81.	28.	-1.1	0.0200	0.72	0.24	0.50	241.0	15.0	281.1	2.0	0	0.51	90.	1007.	10	NAD-SFC	NoSubs
9	12	11	345	11	18.0	-9.000	-9.000	-9.000	129.	-999.	-99999.0	0.0471	0.72	0.22	0.00	0.0	15.0	281.5	2.0	0	0.25	89.	1007.	10	NAD-SFC	NoSubs
9	12	11	345	12	21.3	-9.000	-9.000	-9.000	170.	-999.	-99999.0	0.0471	0.72	0.21	0.00	0.0	15.0	282.0	2.0	0	0.51	88.	1006.	10	NAD-SFC	NoSubs
9	12	11	345	13	20.8	0.073	0.490	0.005	202.	47.	-1.7	0.0960	0.72	0.21	0.50	28.0	15.0	282.2	2.0	0	1.27	90.	1005.	10	NAD-SFC	NoSubs
9	12	11	345	14	16.6	0.149	0.478	0.005	235.	137.	-17.7	0.0960	0.72	0.22	1.50	21.0	15.0	282.4	2.0	0	1.52	91.	1005.	10	NAD-SFC	NoSubs
9	12	11	345	15	9.0	0.185	0.398	0.005	251.	191.	-63.2	0.0960	0.72	0.26	2.10	6.0	15.0	282.4	2.0	0	1.52	92.	1005.	10	NAD-SFC	NoSubs
9	12	11	345	16	-0.3	0.061	-9.000	-9.000	-999.	52.	69.3	0.0310	0.72	0.36	1.00	102.0	15.0	285.4	2.0	0	1.27	81.	1004.	10	NAD-SFC	NoSubs
9	12	11	345	17	-2.7	0.085	-9.000	-9.000	-999.	60.	20.7	0.0280	0.72	0.67	1.50	127.0	15.0	285.0	2.0	0	1.02	82.	1004.	10	NAD-SFC	NoSubs
9	12	11	345	18	-5.5	0.122	-9.000	-9.000	-999.	103.	30.0	0.0280	0.72	1.00	2.10	144.0	15.0	284.9	2.0	0	1.02	83.	1004.	10	NAD-SFC	NoSubs
9	12	11	345	19	-10.3	0.185	-9.000	-9.000	-999.	192.	55.5	0.0280	0.72	1.00	3.10	123.0	15.0	284.9	2.0	0	0.51	82.	1004.	10	NAD-SFC	NoSubs
9	12	11	345	20	-13.8	0.248	-9.000	-9.000	-999.	297.	99.4	0.0280	0.72	1.00	4.10	124.0	15.0	285.0	2.0	0	0.51	79.	1004.	10	NAD-SFC	NoSubs
9	12	11	345	21	-12.0	0.217	-9.000	-9.000	-999.	242.	75.9	0.0280	0.72	1.00	3.60	135.0	15.0	285.0	2.0	0	0.51	77.	1004.	10	NAD-SFC	NoSubs
9	12	11	345	22	-13.8	0.248	-9.000	-9.000	-999.	297.	99.4	0.0280	0.72	1.00	4.10	131.0	15.0	285.0	2.0	0	0.51	77.	1005.	10	NAD-SFC	NoSubs
9	12	11	345	23	-20.6	0.246	-9.000	-9.000	-999.	293.	64.7	0.0280	0.72	1.00	4.10	125.0	15.0	285.0	2.0	0	0.51	77.	1005.	7	NAD-SFC	NoSubs
9	12	11	345	24	-19.5	0.214	-9.000	-9.000	-999.	238.	45.2	0.0280	0.72	1.00	3.60	124.0	15.0	285.1	2.0	0	0.51	78.	1004.	6	NAD-SFC	NoSubs
9	12	12	346	1	-15.8	0.186	-9.000	-9.000	-999.	192.	36.3	0.0310	0.72	1.00	3.10	118.0	15.0	285.4	2.0	0	0.51	77.	1004.	6	NAD-SFC	NoSubs
9	12	12	346	2	-15.4	0.183	-9.000	-9.000	-999.	187.	35.4	0.0280	0.72	1.00	3.10	127.0	15.0	285.8	2.0	0	0.76	77.	1004.	6	NAD-SFC	NoSubs
9	12	12	346	3	-20.7	0.214	-9.000	-9.000	-999.	237.	42.3	0.0280	0.72	1.00	3.60	133.0	15.0	285.8	2.0	0	0.76	79.	1004.	5	NAD-SFC	NoSubs
9	12	12	346	4	-24.9	0.245	-9.000	-9.000	-999.	291.	52.8	0.0280	0.72	1.00	4.10	122.0	15.0	285.9	2.0	0	0.76	81.	1004.	4	NAD-SFC	NoSubs
9	12	12	346	5	-24.9	0.245	-9.000	-9.000	-999.	291.	52.8	0.0280	0.72	1.00	4.10	125.0	15.0	285.8	2.0	0	0.51	84.	1004.	4	NAD-SFC	NoSubs
9	12	12	346	6	-24.9	0.245	-9.000	-9.000	-999.	291.	52.8	0.0280	0.72	1.00	4.10	124.0	15.0	285.8	2.0	0	0.25	85.	1004.	4	NAD-SFC	NoSubs
9	12	12	346	7	-24.9	0.245	-9.000	-9.000	-999.	291.	52.8	0.0280	0.72	1.00	4.10	123.0	15.0	285.8	2.0	0	0.00	85.	1004.	4	NAD-SFC	NoSubs
9	12	12	346	8	-18.9	0.247	-9.000	-9.000	-999.	294.	70.8	0.0280	0.72	0.55	4.10	133.0	15.0	285.9	2.0	0	0.00	82.	1004.	3	NAD-SFC	NoSubs
9	12	12	346	9	24.4	0.251	0.391	0.005	87.	301.	-57.9	0.0280	0.72	0.32	3.60	145.0	15.0	286.2	2.0	0	0.00	79.	1004.	3	NAD-SFC	NoSubs
9	12	12	346	10	63.0	0.265	0.849	0.005	348.	327.	-26.3	0.0280	0.72	0.24	3.60	139.0	15.0	287.2	2.0	0	0.00	75.	1004.	3	NAD-SFC	NoSubs
9	12	12	346	11	89.9	0.271	1.158	0.005	618.	339.	-19.9	0.0280	0.72	0.22	3.60	141.0	15.0	288.8	2.0	0	0.00	69.	1003.	3	NAD-SFC	NoSubs
9	12	12	346	12	102.3	0.274	1.329	0.005	821.	344.	-17.9	0.0280	0.72	0.21	3.60	129.0	15.0	290.2	2.0	0	0.00	63.	1002.	4	NAD-SFC	NoSubs
9	12	12	346	13	100.7	0.303	1.404	0.005	982.	400.	-24.6	0.0280	0.72	0.21	4.10	138.0	15.0	291.4	2.0	0	0.00	58.	1000.	4	NAD-SFC	NoSubs
9	12	12	346	14	84.7	0.270	1.385	0.005	1119.	338.	-20.7	0.0280	0.72	0.22	3.60	135.0	15.0	291.6	2.0	0	0.00	60.	999.	4	NAD-SFC	NoSubs
9	12	12	346	15	54.2	0.233	1.222	0.005	1199.	270.	-20.7	0.0280	0.72	0.26	3.10	135.0	15.0	291.4	2.0	0	0.76	59.	998.	5	NAD-SFC	NoSubs
9	12	12	346	16	15.5	0.240	0.810	0.005	1220.	283.	-79.6	0.0240	0.72	0.36	3.60	175.0	15.0	291.4	2.0	0	1.52	59.	998.	4	NAD-SFC	NoSubs
9	12	12	346	17	-26.6	0.270	-9.000	-9.000	-999.	336.	65.7	0.0240	0.72	0.67	4.60	176.0	15.0	290.9	2.0	0	0.51	63.	998.	3	NAD-SFC	NoSubs
9	12	12	346	18	-30.7	0.296	-9.000	-9.000	-999.	386.	75.0	0.0220	0.72	1.00	5.10	181.0	15.0	289.2	2.0	0	0.00	71.	998.	3	NAD-SFC	NoSubs
9	12	12	346	19	-28.1	0.269	-9.000	-9.000	-999.	336.	61.9	0.0240	0.72	1.00	4.60	168.0	15.0	288.0	2.0	0	0.00	77.	999.	3	NAD-SFC	NoSubs
9	12	12	346	20	-27.1	0.269	-9.000	-9.000	-999.	336.	64.2	0.0240	0.72	1.00	4.60	159.0	15.0	287.2	2.0	0	0.00	81.	999.	4	NAD-SFC	NoSubs
9	12	12	346	21	-29.0	0.276	-9.000	-9.000	-999.	348.	64.8	0.0280	0.72	1.00	4.60	136.0	15.0	286.5	2.0	0	0.00	85.	1000.	3	NAD-SFC	NoSubs
9	12	12	346	22	-29.1	0.276	-9.000	-9.000	-999.	348.	64.6	0.0280	0.72	1.00	4.60	125.0	15.0	285.6	2.0	0	0.00	86.	1000.	3	NAD-SFC	NoSubs
9	12	12	346	23	-29.6	0.281	-9.000	-9.000	-999.	357.	66.6	0.0310	0.72	1.00	4.60	118.0	15.0	284.9	2.0	0	0.00	86.	1001.	3	NAD-SFC	NoSubs
9	12	12	346	24	-28.6	0.281	-9.000	-9.000	-999.	357.	69.1	0.0310	0.72	1.00	4.60	117.0	15.0	284.5	2.0	0	0.00	85.	1001.	4	NAD-SFC	NoSubs
9	12	13	347	1	-25.0	0.245	-9.000	-9.000	-999.	291.	52.5	0.0280	0.72	1.00	4.10	129.0	15.0	284.2	2.0	0	0.00	83.	1001.	4	NAD-SFC	NoSubs
9	12	13	347	2	-28.2	0.276	-9.000	-9.000	-999.	348.	66.8	0.0280	0.72	1.00	4.60	139.0	15.0	284.2	2.0	0	0.00	82.	1001.	4	NAD-SFC	NoSubs
9	12	13	347	3	-23.8	0.245	-9.000	-9.000	-999.	292.	55.3	0.0280	0.72	1.00	4.10	146.0	15.0	284.2	2.0	0	0.00	79.	1002.	5	NAD-SFC	NoSubs
9	12	13	347	4	-23.2	0.239	-9.000	-9.000	-999.	281.	52.6	0.0240	0.72	1.00	4.10	167.0	15.0	284.4	2.0	0	0.00	78.	1002.	5	NAD-SFC	NoSubs
9	12	13	347	5	-21.5	0.236	-9.000	-9.000	-999.	275.	54.8	0.0220	0.72	1.00	4.10	190.0	15.0	284.2	2.0	0	0.00	79.	1002.	6	NAD-SFC	NoSubs
9	12	13	347	6	-20.0	0.206	-9.000	-9.000	-999.	224.	38.8	0.0220	0.72	1.00	3.60	219.0	15.0	283.6	2.0	0	0.00	83.	1003.	5	NAD-SFC	NoSubs
9	12	13	347	7	-15.0	0.175	-9.000	-9.000	-999.	176.	32.0	0.0220	0.72	1.00	3.10	226.0	15.0	282.8	2.0	0	0.00	88.	1003.	5	NAD-SFC	NoSubs
9	12	13	347	8	-5.7	0.116	-9.000	-9.000	-999.	96.	24.7	0.0220	0.72	0.55	2.10	220.0	15.0	282.8	2.0	0	0.00	88.	1004.	5	NAD-SFC	NoSubs
9	12	13	347	9	24.3	0.125	0.456	0.005	140.	106.	-7.3	0.0280	0.72	0.32	1.50	127.0	15.0	283.2	2.0	0	0.00	85.	1005.	5	NAD-SFC	NoSubs
9	12	13	347	10	60.8	0.083	0.916	0.005	452.	58.	-1.0	0.0960	0.72	0.24	0.50	16.0	15.0	285.2	2.0	0	0.00	74.	1005.	5	NAD-SFC	NoSubs
9	12	13	347	11	86.1	0.125	1.273	0.005	859.	106.	-2.0	0.0650	0.72	0.22	1.00	39.0	15.0	286.2	2.0	0	0.00	69.	1005.	5	NAD-SFC	NoSubs
9	12	13	347	12	101.0	-9.000	-9.000	-9.000	1067.	-999.	-99999.0	0.0471	0.72	0.21	0.00	0.0	15.0	287.2	2.0	0	0.00	65.	1005.	4	NAD-SFC	NoSubs
9	12	13	347	13	99.4	-9.000	-9.000	-9.000	1191.	-999.	-99999.0	0.0471	0.72	0.21	0.00	0.0	15.0	288.1	2.0	0	0.00	60.	1004.	4	NAD-SFC	NoSubs
9	12	13	347	14	83.5	-9.000	-9.000	-9.000	1286.	-999.	-99999.0	0.0471	0.72	0.22	0.00	0.0	15.0	288.6	2.0	0	0.00	57.	1004.	4	NAD-SFC	NoSubs
9	12	13	347	15	45.5	0.080	1.192	0.005	1335.	55.	-1.0	0.0950	0.72	0.26	0.50	332.0	15.0	288.8	2.0	0	0.00	56.	1004.	7	NAD-SFC	NoSubs
9	12	13	347	16	0.3	0.084	0.232	0.005	1335.	58.	-157.6	0.0960	0.72	0.36	1.00	19.0	15.0	288.8	2.0	0	0.00	58.	1004.	10	NAD-SFC	NoSubs
9	12	13	347	17	-3.4	0.099	-9.000	-9.000	-999.	75.	26.0	0.0650	0.72	0.67	1.50	42.0	15.0	288.2	2.0	0	0.00	61.	1004.	10	NAD-SFC	NoSubs
9	12	13	347	18	-2.0	0.074	-9.000	-9.000	-999.	48.	18.1	0.0650	0.72	1.00	1.00	43.0	15.0	287.6	2.0	0	0.00	65.	1004.	8	NAD-SFC	NoSubs
9	12	13	347	19	-1.7	0.067	-9.000	-9.000	-999.	42.	15.8	0.0220	0.72	1.00	1.00	187.0	15.0	286.8	2.0	0	0.00	71.	1005.	7	NAD-SFC	NoSubs
9	12	13	347	20	-6.5	0.115	-9.000	-9.000	-999.	94.	21.3	0.0220	0.72	1.00	2.10	210.0	15.0	285.9	2.0	0	0.00	77.	1005.	6	NAD-SFC	NoSubs
9	12	13	347	21	-6.5	0.115	-9.000	-9.000	-999.	94.	21.2	0.0220	0.72	1.00	2.10	229.0	15.0	285.4	2.0	0	0.00	80.	1006.	6	NAD-SFC	NoSubs
9	12	13	347	22	-6.3	0.114	-9.000	-9.000	-999.	92.	20.8	0.0200	0.72	1.00	2.10	255.0	15.0	284.8	2.0	0	0.00	84.	1007.	6	NAD-SFC	NoSubs
9	12	13	347	23	-7.7	0.129	-9.000	-9.000	-999.	111.	24.9	0.0420	0.72	1.00	2.10	272.0	15.0	283.8	2.0	0	0.00	90.	1007.	6	NAD-SFC	NoSubs

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 9 12 13 347 24   -3.5  0.084 -9.000 -9.000 -999.   59.     15.5  0.0200  0.72  1.00  1.50  265.0  15.0  282.8  2.0   0  0.00   95.  1008.    5 NAD-SFC NoSubs
 9 12 14 348  1   -3.6  0.085 -9.000 -9.000 -999.   60.     15.7  0.0220  0.72  1.00  1.50  209.0  15.0  282.0  2.0   0  0.00   97.  1008.    5 NAD-SFC NoSubs
 9 12 14 348  2   -6.7  0.115 -9.000 -9.000 -999.   94.     20.4  0.0220  0.72  1.00  2.10  219.0  15.0  281.6  2.0   0  0.00   99.  1009.    5 NAD-SFC NoSubs
 9 12 14 348  3  -10.3  0.142 -9.000 -9.000 -999.  129.     25.3  0.0200  0.72  1.00  2.60  248.0  15.0  281.2  2.0   0  0.00  100.  1009.    5 NAD-SFC NoSubs
 9 12 14 348  4  -16.7  0.196 -9.000 -9.000 -999.  209.     40.8  0.0420  0.72  1.00  3.10  277.0  15.0  281.0  2.0   0  0.00  100.  1010.    7 NAD-SFC NoSubs
 9 12 14 348  5  -12.7  0.224 -9.000 -9.000 -999.  255.     80.2  0.0800  0.72  1.00  3.10  304.0  15.0  281.1  2.0   0  0.00   99.  1010.   10 NAD-SFC NoSubs
 9 12 14 348  6  -12.7  0.224 -9.000 -9.000 -999.  255.     80.1  0.0800  0.72  1.00  3.10  318.0  15.0  280.9  2.0   0  0.00   98.  1011.   10 NAD-SFC NoSubs
 9 12 14 348  7  -13.2  0.232 -9.000 -9.000 -999.  269.     85.9  0.0950  0.72  1.00  3.10  335.0  15.0  280.6  2.0   0  0.00   98.  1011.   10 NAD-SFC NoSubs
 9 12 14 348  8   -9.8  0.194 -9.000 -9.000 -999.  205.     67.4  0.0950  0.72  0.56  2.60  332.0  15.0  280.5  2.0   0  0.00   97.  1012.   10 NAD-SFC NoSubs
 9 12 14 348  9    1.0  0.165  0.094  0.007  29.   160.   -397.0  0.0800  0.72  0.32  2.10  328.0  15.0  280.5  2.0   0  0.00   96.  1012.   10 NAD-SFC NoSubs
 9 12 14 348 10   50.2  0.125  0.610  0.007 163.   106.     -3.5  0.0950  0.72  0.25  1.00  344.0  15.0  280.8  2.0   0  0.00   94.  1013.    7 NAD-SFC NoSubs
 9 12 14 348 11   86.8 -9.000 -9.000 -9.000 291.  -999. -99999.0  0.0471  0.72  0.22  0.00    0.0  15.0  281.6  2.0   0  0.00   89.  1013.    4 NAD-SFC NoSubs
 9 12 14 348 12   99.6 -9.000 -9.000 -9.000 431.  -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0  283.1  2.0   0  0.00   81.  1012.    4 NAD-SFC NoSubs
 9 12 14 348 13   98.6 -9.000 -9.000 -9.000 664.  -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0  284.1  2.0   0  0.00   77.  1011.    3 NAD-SFC NoSubs
 9 12 14 348 14   82.6 -9.000 -9.000 -9.000 799.  -999. -99999.0  0.0471  0.72  0.22  0.00    0.0  15.0  285.0  2.0   0  0.00   72.  1011.    3 NAD-SFC NoSubs
 9 12 14 348 15   52.9 -9.000 -9.000 -9.000 876.  -999. -99999.0  0.0471  0.72  0.26  0.00    0.0  15.0  285.6  2.0   0  0.00   69.  1010.    3 NAD-SFC NoSubs
 9 12 14 348 16   10.9  0.067  0.646  0.005 891.   42.     -2.5  0.0960  0.72  0.36  0.50   25.0  15.0  285.8  2.0   0  0.00   69.  1010.    2 NAD-SFC NoSubs
 9 12 14 348 17   -1.1  0.071 -9.000 -9.000 -999.   45.     28.2  0.0650  0.72  0.67  0.50   51.0  15.0  285.1  2.0   0  0.00   72.  1010.    2 NAD-SFC NoSubs
 9 12 14 348 18   -1.0  0.067 -9.000 -9.000 -999.   41.     26.6  0.0280  0.72  1.00  0.50  145.0  15.0  284.2  2.0   0  0.00   77.  1010.    2 NAD-SFC NoSubs
 9 12 14 348 19   -1.0  0.066 -9.000 -9.000 -999.   40.     26.2  0.0240  0.72  1.00  0.50  169.0  15.0  283.2  2.0   0  0.00   83.  1011.    2 NAD-SFC NoSubs
 9 12 14 348 20   -1.0  0.066 -9.000 -9.000 -999.   41.     26.3  0.0240  0.72  1.00  0.50  169.0  15.0  282.4  2.0   0  0.00   89.  1011.    2 NAD-SFC NoSubs
 9 12 14 348 21   -1.0  0.066 -9.000 -9.000 -999.   41.     26.3  0.0240  0.72  1.00  0.50  159.0  15.0  281.2  2.0   0  0.00   95.  1011.    2 NAD-SFC NoSubs
 9 12 14 348 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  279.6  2.0   0  0.00  100.  1012.    2 NAD-SFC NoSubs
 9 12 14 348 23   -1.0  0.068 -9.000 -9.000 -999.   42.     27.0  0.0310  0.72  1.00  0.50  113.0  15.0  278.4  2.0   0  0.00  100.  1012.    2 NAD-SFC NoSubs
 9 12 14 348 24   -1.0  0.068 -9.000 -9.000 -999.   42.     27.0  0.0310  0.72  1.00  0.50   90.0  15.0  278.0  2.0   0  0.00  100.  1012.    2 NAD-SFC NoSubs
 9 12 15 349  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  277.8  2.0   0  0.00  100.  1012.    2 NAD-SFC NoSubs
 9 12 15 349  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  278.2  2.0   0  0.00  100.  1012.    2 NAD-SFC NoSubs
 9 12 15 349  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  278.4  2.0   0  0.00  100.  1012.    2 NAD-SFC NoSubs
 9 12 15 349  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  278.5  2.0   0  0.00  100.  1012.    2 NAD-SFC NoSubs
 9 12 15 349  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  278.5  2.0   0  0.00  100.  1012.    2 NAD-SFC NoSubs
 9 12 15 349  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  278.5  2.0   0  0.00  100.  1013.    2 NAD-SFC NoSubs
 9 12 15 349  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  278.6  2.0   0  0.00  100.  1013.    2 NAD-SFC NoSubs
 9 12 15 349  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.56  0.00    0.0  15.0  278.8  2.0   0  0.00  100.  1014.    2 NAD-SFC NoSubs
 9 12 15 349  9   19.6 -9.000 -9.000 -9.000  58.  -999. -99999.0  0.0471  0.72  0.33  0.00    0.0  15.0  279.2  2.0   0  0.00   99.  1014.    2 NAD-SFC NoSubs
 9 12 15 349 10   58.7  0.083  0.621  0.009 147.   57.     -1.0  0.0950  0.72  0.25  0.50  347.0  15.0  280.9  2.0   0  0.00   85.  1014.    2 NAD-SFC NoSubs
 9 12 15 349 11   85.9  0.134  0.891  0.008 298.  117.     -2.5  0.0950  0.72  0.22  1.00  337.0  15.0  282.1  2.0   0  0.00   76.  1014.    2 NAD-SFC NoSubs
 9 12 15 349 12   99.0  0.131  1.057  0.008 431.  114.     -2.1  0.0800  0.72  0.21  1.00  328.0  15.0  283.0  2.0   0  0.00   72.  1014.    2 NAD-SFC NoSubs
 9 12 15 349 13   97.5  0.135  1.135  0.008 542.  119.     -2.3  0.0950  0.72  0.21  1.00  341.0  15.0  283.8  2.0   0  0.00   69.  1013.    2 NAD-SFC NoSubs
 9 12 15 349 14   81.3  0.173  1.117  0.009 619.  173.     -5.8  0.0950  0.72  0.22  1.50  346.0  15.0  284.1  2.0   0  0.00   67.  1013.    2 NAD-SFC NoSubs
 9 12 15 349 15   51.3  0.121  0.980  0.009 663.  102.     -3.2  0.0800  0.72  0.26  1.00  326.0  15.0  284.2  2.0   0  0.00   68.  1013.    2 NAD-SFC NoSubs
 9 12 15 349 16   10.6  0.065  0.582  0.009 670.   40.     -2.3  0.0800  0.72  0.36  0.50  318.0  15.0  284.0  2.0   0  0.00   69.  1012.    2 NAD-SFC NoSubs
 9 12 15 349 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.66  0.00    0.0  15.0  283.8  2.0   0  0.00   71.  1012.    2 NAD-SFC NoSubs
 9 12 15 349 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  283.5  2.0   0  0.00   73.  1012.    2 NAD-SFC NoSubs
 9 12 15 349 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  283.2  2.0   0  0.00   75.  1013.    2 NAD-SFC NoSubs
 9 12 15 349 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  283.0  2.0   0  0.00   77.  1013.    2 NAD-SFC NoSubs
 9 12 15 349 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.9  2.0   0  0.00   78.  1013.    2 NAD-SFC NoSubs
 9 12 15 349 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.8  2.0   0  0.00   78.  1014.    2 NAD-SFC NoSubs
 9 12 15 349 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.8  2.0   0  0.00   79.  1014.    2 NAD-SFC NoSubs
 9 12 15 349 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.8  2.0   0  0.00   79.  1014.    3 NAD-SFC NoSubs
 9 12 16 350  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.8  2.0   0  0.00   79.  1014.    3 NAD-SFC NoSubs
 9 12 16 350  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.6  2.0   0  0.00   80.  1014.    3 NAD-SFC NoSubs
 9 12 16 350  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.5  2.0   0  0.00   80.  1014.    3 NAD-SFC NoSubs
 9 12 16 350  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.2  2.0   0  0.00   80.  1013.    3 NAD-SFC NoSubs
 9 12 16 350  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.2  2.0   0  0.00   80.  1013.    3 NAD-SFC NoSubs
 9 12 16 350  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  281.8  2.0   0  0.00   82.  1014.    3 NAD-SFC NoSubs
 9 12 16 350  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  281.2  2.0   0  0.00   83.  1014.    3 NAD-SFC NoSubs
 9 12 16 350  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.57  0.00    0.0  15.0  280.9  2.0   0  0.00   84.  1014.    3 NAD-SFC NoSubs
 9 12 16 350  9   22.2 -9.000 -9.000 -9.000  82.  -999. -99999.0  0.0471  0.72  0.33  0.00    0.0  15.0  282.0  2.0   0  0.00   77.  1014.    4 NAD-SFC NoSubs
 9 12 16 350 10   60.4 -9.000 -9.000 -9.000 182.  -999. -99999.0  0.0471  0.72  0.25  0.00    0.0  15.0  284.5  2.0   0  0.00   59.  1014.    4 NAD-SFC NoSubs
 9 12 16 350 11   87.1 -9.000 -9.000 -9.000 297.  -999. -99999.0  0.0471  0.72  0.22  0.00    0.0  15.0  286.1  2.0   0  0.00   52.  1014.    4 NAD-SFC NoSubs
 9 12 16 350 12  100.2  0.131  1.035  0.008 400.  114.     -2.1  0.0800  0.72  0.21  1.00  305.0  15.0  287.6  2.0   0  0.00   45.  1013.    4 NAD-SFC NoSubs
 9 12 16 350 13   98.9  0.153  1.124  0.007 519.  144.     -3.3  0.0420  0.72  0.21  1.50  296.0  15.0  288.5  2.0   0  0.00   42.  1013.    4 NAD-SFC NoSubs
 9 12 16 350 14   83.4  0.168  1.116  0.007 602.  165.     -5.1  0.0800  0.72  0.22  1.50  306.0  15.0  289.0  2.0   0  0.00   42.  1012.    4 NAD-SFC NoSubs
 9 12 16 350 15   54.4  0.161  0.993  0.007 650.  155.     -6.9  0.0800  0.72  0.26  1.50  323.0  15.0  289.2  2.0   0  0.00   42.  1012.    4 NAD-SFC NoSubs
 9 12 16 350 16   14.3  0.184  0.641  0.007 664.  190.    -39.4  0.0800  0.72  0.36  2.10  323.0  15.0  290.5  2.0   0  0.00   50.  1011.    3 NAD-SFC NoSubs
 9 12 16 350 17  -15.6  0.190 -9.000 -9.000 -999.  199.     39.5  0.0950  0.72  0.66  2.60  332.0  15.0  289.8  2.0   0  0.00   53.  1011.    4 NAD-SFC NoSubs
 9 12 16 350 18   -5.0  0.104 -9.000 -9.000 -999.   84.     20.4  0.0800  0.72  1.00  1.50  329.0  15.0  288.8  2.0   0  0.00   57.  1011.    4 NAD-SFC NoSubs
 9 12 16 350 19   -2.7  0.084 -9.000 -9.000 -999.   58.     19.4  0.0800  0.72  1.00  1.00  323.0  15.0  287.8  2.0   0  0.00   62.  1012.    3 NAD-SFC NoSubs
 9 12 16 350 20   -1.0  0.067 -9.000 -9.000 -999.   42.     26.8  0.0420  0.72  1.00  0.50  296.0  15.0  286.8  2.0   0  0.00   66.  1012.    4 NAD-SFC NoSubs
 9 12 16 350 21   -1.0  0.068 -9.000 -9.000 -999.   43.     27.2  0.0420  0.72  1.00  0.50  292.0  15.0  285.9  2.0   0  0.00   71.  1012.    3 NAD-SFC NoSubs
 9 12 16 350 22   -1.0  0.068 -9.000 -9.000 -999.   43.     27.3  0.0420  0.72  1.00  0.50  298.0  15.0  285.2  2.0   0  0.00   74.  1013.    3 NAD-SFC NoSubs
 9 12 16 350 23   -1.2  0.073 -9.000 -9.000 -999.   47.     28.9  0.0800  0.72  1.00  0.50  301.0  15.0  284.6  2.0   0  0.00   77.  1013.    3 NAD-SFC NoSubs
 9 12 16 350 24   -2.8  0.084 -9.000 -9.000 -999.   59.     19.4  0.0800  0.72  1.00  1.00  305.0  15.0  284.0  2.0   0  0.00   79.  1013.    3 NAD-SFC NoSubs
 9 12 17 351  1   -2.8  0.084 -9.000 -9.000 -999.   59.     19.4  0.0800  0.72  1.00  1.00  300.0  15.0  283.6  2.0   0  0.00   82.  1013.    3 NAD-SFC NoSubs
 9 12 17 351  2   -5.2  0.105 -9.000 -9.000 -999.   81.     20.1  0.0800  0.72  1.00  1.50  305.0  15.0  283.2  2.0   0  0.00   84.  1013.    3 NAD-SFC NoSubs
 9 12 17 351  3   -2.4  0.078 -9.000 -9.000 -999.   53.     17.9  0.0420  0.72  1.00  1.00  283.0  15.0  282.9  2.0   0  0.00   87.  1012.    3 NAD-SFC NoSubs
 9 12 17 351  4   -2.1  0.073 -9.000 -9.000 -999.   47.     16.5  0.0200  0.72  1.00  1.00  266.0  15.0  282.5  2.0   0  0.00   90.  1012.    3 NAD-SFC NoSubs
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 9 12 17 351  5   -2.1  0.073 -9.000 -9.000 -999.   47.     16.5  0.0200  0.72  1.00  1.00  258.0  15.0  282.2  2.0   0  0.00   92.  1012.    3 NAD-SFC NoSubs
 9 12 17 351  6   -3.7  0.086 -9.000 -9.000 -999.   60.     15.2  0.0200  0.72  1.00  1.50  256.0  15.0  281.9  2.0   0  0.00   94.  1012.    3 NAD-SFC NoSubs
 9 12 17 351  7   -3.7  0.086 -9.000 -9.000 -999.   60.     15.2  0.0200  0.72  1.00  1.50  257.0  15.0  281.5  2.0   0  0.00   94.  1012.    3 NAD-SFC NoSubs
 9 12 17 351  8   -3.2  0.083 -9.000 -9.000 -999.   57.     15.9  0.0200  0.72  0.57  1.50  259.0  15.0  281.2  2.0   0  0.00   93.  1012.    3 NAD-SFC NoSubs
 9 12 17 351  9   20.7  0.132  0.388  0.009  102.  114.     -9.9  0.0420  0.72  0.33  1.50  287.0  15.0  282.1  2.0   0  0.00   86.  1013.    3 NAD-SFC NoSubs
 9 12 17 351 10   58.3  0.205  0.732  0.009  243.  224.    -13.4  0.0800  0.72  0.25  2.10  324.0  15.0  283.8  2.0   0  0.00   72.  1013.    2 NAD-SFC NoSubs
 9 12 17 351 11   85.8  0.169  0.950  0.008  361.  167.     -5.0  0.0800  0.72  0.22  1.50  320.0  15.0  285.1  2.0   0  0.00   62.  1012.    2 NAD-SFC NoSubs
 9 12 17 351 12   99.2  0.216  1.092  0.008  475.  241.     -9.2  0.0800  0.72  0.21  2.10  306.0  15.0  285.9  2.0   0  0.00   57.  1012.    2 NAD-SFC NoSubs
 9 12 17 351 13   97.8  0.252  1.156  0.008  569.  303.    -14.7  0.0800  0.72  0.21  2.60  313.0  15.0  286.4  2.0   0  0.00   54.  1011.    2 NAD-SFC NoSubs
 9 12 17 351 14   81.9  0.248  1.131  0.008  638.  296.    -16.8  0.0800  0.72  0.22  2.60  308.0  15.0  286.8  2.0   0  0.00   52.  1011.    2 NAD-SFC NoSubs
 9 12 17 351 15   52.1  0.204  0.994  0.008  679.  221.    -14.6  0.0800  0.72  0.26  2.10  323.0  15.0  287.0  2.0   0  0.00   51.  1010.    2 NAD-SFC NoSubs
 9 12 17 351 16   11.7  0.140  0.606  0.008  688.  126.    -21.1  0.0800  0.72  0.36  1.50  309.0  15.0  286.9  2.0   0  0.00   54.  1010.    2 NAD-SFC NoSubs
 9 12 17 351 17   -1.0  0.067 -9.000 -9.000 -999.   44.     27.0  0.0420  0.72  0.66  0.50  284.0  15.0  286.2  2.0   0  0.00   56.  1010.    2 NAD-SFC NoSubs
 9 12 17 351 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  285.2  2.0   0  0.00   60.  1011.    2 NAD-SFC NoSubs
 9 12 17 351 19   -1.0  0.066 -9.000 -9.000 -999.   40.     26.2  0.0240  0.72  1.00  0.50  173.0  15.0  284.2  2.0   0  0.00   66.  1011.    2 NAD-SFC NoSubs
 9 12 17 351 20   -2.2  0.075 -9.000 -9.000 -999.   49.     16.9  0.0240  0.72  1.00  1.00  168.0  15.0  283.1  2.0   0  0.00   71.  1011.    2 NAD-SFC NoSubs
 9 12 17 351 21   -2.2  0.075 -9.000 -9.000 -999.   49.     16.9  0.0240  0.72  1.00  1.00  159.0  15.0  282.2  2.0   0  0.00   74.  1012.    2 NAD-SFC NoSubs
 9 12 17 351 22   -1.0  0.066 -9.000 -9.000 -999.   41.     26.3  0.0240  0.72  1.00  0.50  160.0  15.0  281.6  2.0   0  0.00   77.  1012.    2 NAD-SFC NoSubs
 9 12 17 351 23   -1.0  0.065 -9.000 -9.000 -999.   40.     26.1  0.0220  0.72  1.00  0.50  209.0  15.0  281.2  2.0   0  0.00   77.  1012.    2 NAD-SFC NoSubs
 9 12 17 351 24   -2.2  0.074 -9.000 -9.000 -999.   48.     16.6  0.0200  0.72  1.00  1.00  267.0  15.0  280.9  2.0   0  0.00   76.  1012.    2 NAD-SFC NoSubs
 9 12 18 352  1   -4.5  0.095 -9.000 -9.000 -999.   70.     17.3  0.0420  0.72  1.00  1.50  280.0  15.0  280.6  2.0   0  0.00   76.  1012.    2 NAD-SFC NoSubs
 9 12 18 352  2   -4.5  0.095 -9.000 -9.000 -999.   70.     17.3  0.0420  0.72  1.00  1.50  290.0  15.0  280.2  2.0   0  0.00   77.  1012.    2 NAD-SFC NoSubs
 9 12 18 352  3   -2.5  0.079 -9.000 -9.000 -999.   54.     18.1  0.0420  0.72  1.00  1.00  276.0  15.0  279.8  2.0   0  0.00   78.  1012.    2 NAD-SFC NoSubs
 9 12 18 352  4   -2.2  0.074 -9.000 -9.000 -999.   48.     16.6  0.0200  0.72  1.00  1.00  257.0  15.0  279.5  2.0   0  0.00   78.  1012.    2 NAD-SFC NoSubs
 9 12 18 352  5   -2.2  0.074 -9.000 -9.000 -999.   48.     16.6  0.0200  0.72  1.00  1.00  250.0  15.0  279.2  2.0   0  0.00   77.  1012.    2 NAD-SFC NoSubs
 9 12 18 352  6   -2.2  0.074 -9.000 -9.000 -999.   49.     16.8  0.0220  0.72  1.00  1.00  227.0  15.0  279.0  2.0   0  0.00   77.  1012.    2 NAD-SFC NoSubs
 9 12 18 352  7   -2.2  0.074 -9.000 -9.000 -999.   49.     16.8  0.0220  0.72  1.00  1.00  215.0  15.0  278.8  2.0   0  0.00   77.  1013.    2 NAD-SFC NoSubs
 9 12 18 352  8   -1.9  0.070 -9.000 -9.000 -999.   44.     16.1  0.0220  0.72  0.57  1.00  191.0  15.0  278.6  2.0   0  0.00   77.  1013.    2 NAD-SFC NoSubs
 9 12 18 352  9   18.2  0.055  0.328  0.011   70.   31.     -1.0  0.0220  0.72  0.33  0.50  206.0  15.0  279.8  2.0   0  0.00   73.  1013.    2 NAD-SFC NoSubs
 9 12 18 352 10   57.6  0.062  0.671  0.010  190.   37.     -1.0  0.0200  0.72  0.25  0.50  244.0  15.0  282.1  2.0   0  0.00   63.  1013.    2 NAD-SFC NoSubs
 9 12 18 352 11   85.2  0.066  0.909  0.010  319.   41.     -1.0  0.0200  0.72  0.22  0.50  269.0  15.0  283.8  2.0   0  0.00   58.  1012.    2 NAD-SFC NoSubs
 9 12 18 352 12   98.7  0.076  1.055  0.010  429.   50.     -1.0  0.0420  0.72  0.21  0.50  291.0  15.0  285.0  2.0   0  0.00   54.  1011.    2 NAD-SFC NoSubs
 9 12 18 352 13   97.6  0.086  1.124  0.011  524.   60.     -1.0  0.0800  0.72  0.21  0.50  305.0  15.0  285.9  2.0   0  0.00   52.  1010.    2 NAD-SFC NoSubs
 9 12 18 352 14   81.9  0.129  1.104  0.011  592.  111.     -2.3  0.0800  0.72  0.22  1.00  324.0  15.0  286.8  2.0   0  0.00   51.  1010.    2 NAD-SFC NoSubs
 9 12 18 352 15   52.3  0.126  0.972  0.011  632.  107.     -3.4  0.0950  0.72  0.26  1.00  340.0  15.0  287.0  2.0   0  0.00   50.  1009.    2 NAD-SFC NoSubs
 9 12 18 352 16   11.9  0.107  0.596  0.011  641.   85.     -9.4  0.0960  0.72  0.36  1.00   21.0  15.0  287.0  2.0   0  0.00   53.  1009.    2 NAD-SFC NoSubs
 9 12 18 352 17   -2.3  0.077 -9.000 -9.000 -999.   51.     17.7  0.0400  0.72  0.66  1.00   69.0  15.0  286.2  2.0   0  0.00   57.  1009.    2 NAD-SFC NoSubs
 9 12 18 352 18   -1.0  0.066 -9.000 -9.000 -999.   41.     26.5  0.0280  0.72  1.00  0.50  123.0  15.0  285.2  2.0   0  0.00   63.  1009.    2 NAD-SFC NoSubs
 9 12 18 352 19   -1.0  0.066 -9.000 -9.000 -999.   40.     26.2  0.0240  0.72  1.00  0.50  159.0  15.0  284.4  2.0   0  0.00   67.  1009.    2 NAD-SFC NoSubs
 9 12 18 352 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  283.8  2.0   0  0.00   71.  1009.    2 NAD-SFC NoSubs
 9 12 18 352 21   -1.1  0.069 -9.000 -9.000 -999.   43.     27.5  0.0400  0.72  1.00  0.50   86.0  15.0  283.1  2.0   0  0.00   75.  1009.    2 NAD-SFC NoSubs
 9 12 18 352 22   -1.0  0.067 -9.000 -9.000 -999.   42.     26.9  0.0310  0.72  1.00  0.50   98.0  15.0  282.6  2.0   0  0.00   77.  1009.    2 NAD-SFC NoSubs
 9 12 18 352 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.2  2.0   0  0.00   79.  1009.    2 NAD-SFC NoSubs
 9 12 18 352 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.2  2.0   0  0.00   79.  1009.    2 NAD-SFC NoSubs
 9 12 19 353  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.1  2.0   0  0.00   79.  1009.    2 NAD-SFC NoSubs
 9 12 19 353  2   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0420  0.72  1.00  0.50  280.0  15.0  282.0  2.0   0  0.00   80.  1009.    2 NAD-SFC NoSubs
 9 12 19 353  3   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0420  0.72  1.00  0.50  270.0  15.0  281.8  2.0   0  0.00   81.  1009.    2 NAD-SFC NoSubs
 9 12 19 353  4   -2.2  0.074 -9.000 -9.000 -999.   48.     16.6  0.0200  0.72  1.00  1.00  257.0  15.0  281.8  2.0   0  0.00   83.  1008.    2 NAD-SFC NoSubs
 9 12 19 353  5   -3.8  0.086 -9.000 -9.000 -999.   61.     15.2  0.0200  0.72  1.00  1.50  260.0  15.0  281.8  2.0   0  0.00   84.  1008.    2 NAD-SFC NoSubs
 9 12 19 353  6   -7.0  0.113 -9.000 -9.000 -999.   92.     18.8  0.0200  0.72  1.00  2.10  261.0  15.0  282.0  2.0   0  0.00   84.  1009.    2 NAD-SFC NoSubs
 9 12 19 353  7   -7.0  0.113 -9.000 -9.000 -999.   92.     18.8  0.0200  0.72  1.00  2.10  260.0  15.0  282.2  2.0   0  0.00   82.  1009.    2 NAD-SFC NoSubs
 9 12 19 353  8   -3.4  0.084 -9.000 -9.000 -999.   58.     15.7  0.0200  0.72  0.58  1.50  255.0  15.0  282.2  2.0   0  0.00   80.  1009.    2 NAD-SFC NoSubs
 9 12 19 353  9   18.3  0.116  0.333  0.012   73.   95.     -7.8  0.0200  0.72  0.33  1.50  258.0  15.0  282.4  2.0   0  0.00   78.  1009.    2 NAD-SFC NoSubs
 9 12 19 353 10   57.4  0.184  0.658  0.011  178.  190.     -9.8  0.0420  0.72  0.25  2.10  281.0  15.0  283.2  2.0   0  0.00   72.  1010.    2 NAD-SFC NoSubs
 9 12 19 353 11   85.3  0.191  0.913  0.012  321.  201.     -7.4  0.0420  0.72  0.22  2.10  298.0  15.0  285.4  2.0   0  0.00   61.  1010.    2 NAD-SFC NoSubs
 9 12 19 353 12   98.9  0.216  1.055  0.012  428.  241.     -9.2  0.0800  0.72  0.21  2.10  310.0  15.0  286.2  2.0   0  0.00   58.  1009.    2 NAD-SFC NoSubs
 9 12 19 353 13   97.7  0.216  1.105  0.012  497.  241.     -9.3  0.0800  0.72  0.21  2.10  322.0  15.0  286.4  2.0   0  0.00   58.  1009.    2 NAD-SFC NoSubs
 9 12 19 353 14   81.8  0.219  1.076  0.011  548.  246.    -11.5  0.0950  0.72  0.22  2.10  337.0  15.0  286.2  2.0   0  0.00   60.  1009.    2 NAD-SFC NoSubs
 9 12 19 353 15   52.2  0.210  0.943  0.011  579.  231.    -16.0  0.0960  0.72  0.26  2.10    1.0  15.0  286.1  2.0   0  0.00   64.  1008.    2 NAD-SFC NoSubs
 9 12 19 353 16   11.7  0.144  0.576  0.011  585.  133.    -23.1  0.0960  0.72  0.36  1.50    9.0  15.0  285.8  2.0   0  0.00   65.  1008.    2 NAD-SFC NoSubs
 9 12 19 353 17   -1.2  0.073 -9.000 -9.000 -999.   49.     29.1  0.0960  0.72  0.65  0.50   21.0  15.0  285.5  2.0   0  0.00   66.  1008.    2 NAD-SFC NoSubs
 9 12 19 353 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  285.2  2.0   0  0.00   68.  1008.    2 NAD-SFC NoSubs
 9 12 19 353 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  284.8  2.0   0  0.00   71.  1008.    2 NAD-SFC NoSubs
 9 12 19 353 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  284.4  2.0   0  0.00   74.  1008.    2 NAD-SFC NoSubs
 9 12 19 353 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  284.1  2.0   0  0.00   77.  1008.    2 NAD-SFC NoSubs
 9 12 19 353 22   -1.3  0.075 -9.000 -9.000 -999.   49.     29.7  0.0950  0.72  1.00  0.50  350.0  15.0  283.8  2.0   0  0.00   78.  1008.    2 NAD-SFC NoSubs
 9 12 19 353 23   -2.9  0.087 -9.000 -9.000 -999.   61.     20.0  0.0960  0.72  1.00  1.00    2.0  15.0  283.5  2.0   0  0.00   79.  1008.    2 NAD-SFC NoSubs
 9 12 19 353 24   -5.5  0.108 -9.000 -9.000 -999.   86.     20.7  0.0950  0.72  1.00  1.50  360.0  15.0  283.2  2.0   0  0.00   81.  1008.    2 NAD-SFC NoSubs
 9 12 20 354  1   -5.5  0.108 -9.000 -9.000 -999.   86.     20.7  0.0950  0.72  1.00  1.50  354.0  15.0  283.2  2.0   0  0.00   81.  1008.    2 NAD-SFC NoSubs
 9 12 20 354  2   -5.5  0.108 -9.000 -9.000 -999.   86.     20.7  0.0950  0.72  1.00  1.50  342.0  15.0  283.2  2.0   0  0.00   82.  1007.    2 NAD-SFC NoSubs
 9 12 20 354  3   -5.5  0.108 -9.000 -9.000 -999.   86.     20.7  0.0950  0.72  1.00  1.50  331.0  15.0  283.0  2.0   0  0.00   83.  1007.    2 NAD-SFC NoSubs
 9 12 20 354  4   -2.8  0.085 -9.000 -9.000 -999.   59.     19.5  0.0800  0.72  1.00  1.00  326.0  15.0  282.9  2.0   0  0.00   83.  1007.    2 NAD-SFC NoSubs
 9 12 20 354  5   -1.2  0.074 -9.000 -9.000 -999.   48.     29.3  0.0800  0.72  1.00  0.50  317.0  15.0  282.8  2.0   0  0.00   84.  1007.    2 NAD-SFC NoSubs
 9 12 20 354  6   -1.2  0.074 -9.000 -9.000 -999.   48.     29.3  0.0800  0.72  1.00  0.50  311.0  15.0  282.8  2.0   0  0.00   84.  1007.    2 NAD-SFC NoSubs
 9 12 20 354  7   -1.3  0.075 -9.000 -9.000 -999.   49.     29.7  0.0950  0.72  1.00  0.50  346.0  15.0  282.6  2.0   0  0.00   84.  1008.    2 NAD-SFC NoSubs
 9 12 20 354  8    8.3 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.58  0.00    0.0  15.0  282.5  2.0   0  0.00   84.  1008.    2 NAD-SFC NoSubs
 9 12 20 354  9   17.9 -9.000 -9.000 -9.000   87. -999. -99999.0  0.0471  0.72  0.33  0.00    0.0  15.0  282.5  2.0   0  0.00   84.  1008.    2 NAD-SFC NoSubs
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 9 12 20 354 10   57.0  0.083  0.648  0.011  171.   57.     -1.0  0.0960  0.72  0.25  0.50    8.0  15.0 283.2  2.0    0  0.00   80. 1009.    2 NAD-SFC NoSubs
 9 12 20 354 11   84.9  0.133  0.862  0.009  272.  117.     -2.5  0.0950  0.72  0.22  1.00  346.0  15.0 284.9  2.0    0  0.00   68. 1009.    2 NAD-SFC NoSubs
 9 12 20 354 12   98.6  0.177  1.000  0.007  364.  178.     -5.0  0.0950  0.72  0.21  1.50  343.0  15.0 285.8  2.0    0  0.00   63. 1008.    2 NAD-SFC NoSubs
 9 12 20 354 13   97.6  0.223  1.081  0.006  465.  252.    -10.2  0.0950  0.72  0.21  2.10  339.0  15.0 286.2  2.0    0  0.00   62. 1007.    2 NAD-SFC NoSubs
 9 12 20 354 14   82.0  0.219  1.075  0.007  545.  246.    -11.5  0.0950  0.72  0.22  2.10  342.0  15.0 286.5  2.0    0  0.00   62. 1007.    2 NAD-SFC NoSubs
 9 12 20 354 15   52.5  0.247  0.952  0.007  590.  294.    -25.7  0.0950  0.72  0.26  2.60  338.0  15.0 286.5  2.0    0  0.00   66. 1007.    2 NAD-SFC NoSubs
 9 12 20 354 16   12.2  0.188  0.589  0.007  600.  197.    -48.9  0.0950  0.72  0.36  2.10  350.0  15.0 286.4  2.0    0  0.00   66. 1006.    2 NAD-SFC NoSubs
 9 12 20 354 17   -1.2  0.073 -9.000 -9.000 -999.   58.     29.0  0.0960  0.72  0.65  0.50    2.0  15.0 286.0  2.0    0  0.00   67. 1006.    2 NAD-SFC NoSubs
 9 12 20 354 18   -1.0  0.066 -9.000 -9.000 -999.   40.     26.2  0.0240  0.72  1.00  0.50  162.0  15.0 285.2  2.0    0  0.00   70. 1007.    2 NAD-SFC NoSubs
 9 12 20 354 19   -1.0  0.066 -9.000 -9.000 -999.   40.     26.2  0.0240  0.72  1.00  0.50  171.0  15.0 284.2  2.0    0  0.00   75. 1007.    2 NAD-SFC NoSubs
 9 12 20 354 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 283.8  2.0    0  0.00   78. 1007.    2 NAD-SFC NoSubs
 9 12 20 354 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 283.1  2.0    0  0.00   80. 1007.    2 NAD-SFC NoSubs
 9 12 20 354 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 282.5  2.0    0  0.00   83. 1008.    2 NAD-SFC NoSubs
 9 12 20 354 23   -1.1  0.069 -9.000 -9.000 -999.   43.     27.5  0.0400  0.72  1.00  0.50   75.0  15.0 282.1  2.0    0  0.00   85. 1008.    2 NAD-SFC NoSubs
 9 12 20 354 24   -1.1  0.069 -9.000 -9.000 -999.   43.     27.5  0.0400  0.72  1.00  0.50   70.0  15.0 281.8  2.0    0  0.00   85. 1008.    2 NAD-SFC NoSubs
 9 12 21 355  1   -1.1  0.069 -9.000 -9.000 -999.   43.     27.5  0.0400  0.72  1.00  0.50   82.0  15.0 281.5  2.0    0  0.00   85. 1008.    2 NAD-SFC NoSubs
 9 12 21 355  2   -1.0  0.067 -9.000 -9.000 -999.   42.     26.9  0.0310  0.72  1.00  0.50   98.0  15.0 281.4  2.0    0  0.00   84. 1008.    2 NAD-SFC NoSubs
 9 12 21 355  3   -1.0  0.068 -9.000 -9.000 -999.   43.     27.3  0.0400  0.72  1.00  0.50   88.0  15.0 281.2  2.0    0  0.00   84. 1008.    3 NAD-SFC NoSubs
 9 12 21 355  4   -1.0  0.067 -9.000 -9.000 -999.   41.     26.6  0.0310  0.72  1.00  0.50  106.0  15.0 281.4  2.0    0  0.00   83. 1007.    3 NAD-SFC NoSubs
 9 12 21 355  5   -1.0  0.066 -9.000 -9.000 -999.   41.     26.4  0.0280  0.72  1.00  0.50  132.0  15.0 281.5  2.0    0  0.00   81. 1007.    3 NAD-SFC NoSubs
 9 12 21 355  6   -1.0  0.066 -9.000 -9.000 -999.   41.     26.4  0.0280  0.72  1.00  0.50  144.0  15.0 281.8  2.0    0  0.00   80. 1007.    3 NAD-SFC NoSubs
 9 12 21 355  7   -2.3  0.076 -9.000 -9.000 -999.   50.     17.3  0.0310  0.72  1.00  1.00  118.0  15.0 281.8  2.0    0  0.00   79. 1007.    3 NAD-SFC NoSubs
 9 12 21 355  8   -0.8  0.061 -9.000 -9.000 -999.   36.     24.8  0.0280  0.72  0.59  0.50  130.0  15.0 281.9  2.0    0  0.00   78. 1007.    3 NAD-SFC NoSubs
 9 12 21 355  9   19.0  0.059  0.311  0.013   57.   34.     -1.0  0.0310  0.72  0.33  0.50  100.0  15.0 282.2  2.0    0  0.00   77. 1007.    3 NAD-SFC NoSubs
 9 12 21 355 10   57.9  0.071  0.632  0.010  156.   45.     -1.0  0.0400  0.72  0.25  0.50   74.0  15.0 283.0  2.0    0  0.00   76. 1006.    3 NAD-SFC NoSubs
 9 12 21 355 11   85.6 -9.000 -9.000 -9.000  280. -999. -99999.0  0.0471  0.72  0.22  0.00    0.0  15.0 284.9  2.0    0  0.00   69. 1006.    3 NAD-SFC NoSubs
 9 12 21 355 12   99.6 -9.000 -9.000 -9.000  387. -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0 286.8  2.0    0  0.00   59. 1005.    3 NAD-SFC NoSubs
 9 12 21 355 13   98.3  0.075  1.112  0.006  501.   50.     -1.0  0.0400  0.72  0.21  0.50   63.0  15.0 287.8  2.0    0  0.00   54. 1005.    4 NAD-SFC NoSubs
 9 12 21 355 14   81.3  0.074  1.096  0.005  580.   48.     -1.0  0.0400  0.72  0.22  0.50   65.0  15.0 288.2  2.0    0  0.00   53. 1004.    5 NAD-SFC NoSubs
 9 12 21 355 15   46.0 -9.000 -9.000 -9.000  620. -999. -99999.0  0.0471  0.72  0.26  0.00    0.0  15.0 288.2  2.0    0  0.00   56. 1004.    7 NAD-SFC NoSubs
 9 12 21 355 16   16.0 -9.000 -9.000 -9.000  634. -999. -99999.0  0.0471  0.72  0.36  0.00    0.0  15.0 288.6  2.0    0  0.00   76. 1004.    4 NAD-SFC NoSubs
 9 12 21 355 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.65  0.00    0.0  15.0 288.1  2.0    0  0.00   79. 1003.    5 NAD-SFC NoSubs
 9 12 21 355 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 287.6  2.0    0  0.00   81. 1003.    5 NAD-SFC NoSubs
 9 12 21 355 19   -0.8  0.061 -9.000 -9.000 -999.   36.     24.6  0.0200  0.72  1.00  0.50  254.0  15.0 287.2  2.0    0  0.25   83. 1003.    5 NAD-SFC NoSubs
 9 12 21 355 20   -4.1  0.093 -9.000 -9.000 -999.   68.     17.9  0.0420  0.72  1.00  1.50  270.0  15.0 286.5  2.0    0  0.51   87. 1004.    5 NAD-SFC NoSubs
 9 12 21 355 21  -11.9  0.162 -9.000 -9.000 -999.  157.     32.1  0.0420  0.72  1.00  2.60  281.0  15.0 285.8  2.0    0  0.51   91. 1004.    6 NAD-SFC NoSubs
 9 12 21 355 22  -22.1  0.264 -9.000 -9.000 -999.  325.     74.3  0.0420  0.72  1.00  4.10  286.0  15.0 284.8  2.0    0  0.76   94. 1004.    7 NAD-SFC NoSubs
 9 12 21 355 23  -16.7  0.300 -9.000 -9.000 -999.  394.    144.7  0.0420  0.72  1.00  4.60  287.0  15.0 284.2  2.0    0  0.51   93. 1004.   10 NAD-SFC NoSubs
 9 12 21 355 24  -16.7  0.300 -9.000 -9.000 -999.  394.    144.6  0.0420  0.72  1.00  4.60  294.0  15.0 284.0  2.0    0  0.00   90. 1005.   10 NAD-SFC NoSubs
 9 12 22 356  1  -16.7  0.300 -9.000 -9.000 -999.  394.    144.5  0.0420  0.72  1.00  4.60  299.0  15.0 283.9  2.0    0  0.00   88. 1005.   10 NAD-SFC NoSubs
 9 12 22 356  2  -18.9  0.338 -9.000 -9.000 -999.  472.    184.2  0.0800  0.72  1.00  4.60  303.0  15.0 283.8  2.0    0  0.00   86. 1006.   10 NAD-SFC NoSubs
 9 12 22 356  3  -25.2  0.332 -9.000 -9.000 -999.  458.    129.7  0.0420  0.72  1.00  5.10  298.0  15.0 283.2  2.0    0  0.00   85. 1006.    8 NAD-SFC NoSubs
 9 12 22 356  4  -34.6  0.334 -9.000 -9.000 -999.  464.     96.9  0.0800  0.72  1.00  4.60  312.0  15.0 281.8  2.0    0  0.00   88. 1006.    4 NAD-SFC NoSubs
 9 12 22 356  5  -36.8  0.372 -9.000 -9.000 -999.  545.    126.2  0.0800  0.72  1.00  5.10  310.0  15.0 281.0  2.0    0  0.00   88. 1007.    5 NAD-SFC NoSubs
 9 12 22 356  6  -45.1  0.456 -9.000 -9.000 -999.  740.    189.5  0.0800  0.72  1.00  6.20  312.0  15.0 280.9  2.0    0  0.00   85. 1007.    5 NAD-SFC NoSubs
 9 12 22 356  7  -55.4  0.533 -9.000 -9.000 -999.  933.    245.2  0.0800  0.72  1.00  7.20  325.0  15.0 280.4  2.0    0  0.00   84. 1007.    4 NAD-SFC NoSubs
 9 12 22 356  8  -42.1  0.457 -9.000 -9.000 -999.  747.    204.2  0.0800  0.72  0.59  6.20  320.0  15.0 279.6  2.0    0  0.00   85. 1008.    3 NAD-SFC NoSubs
 9 12 22 356  9   18.3  0.692  0.460  0.005  191. 1382. -1631.2  0.0950  0.72  0.34  8.70  332.0  15.0 280.2  2.0    0  0.00   75. 1008.    3 NAD-SFC NoSubs
 9 12 22 356 10   57.2  0.679  1.011  0.005  650. 1343.  -491.0  0.0800  0.72  0.25  8.70  326.0  15.0 281.1  2.0    0  0.00   67. 1008.    3 NAD-SFC NoSubs
 9 12 22 356 11   84.7  0.706  1.214  0.005  759. 1422.  -373.6  0.0950  0.72  0.22  8.70  335.0  15.0 281.8  2.0    0  0.00   61. 1008.    3 NAD-SFC NoSubs
 9 12 22 356 12   98.4  0.650  1.332  0.005  864. 1264.  -250.9  0.0800  0.72  0.21  8.20  326.0  15.0 282.0  2.0    0  0.00   58. 1007.    3 NAD-SFC NoSubs
 9 12 22 356 13   97.0  0.708  1.372  0.005  956. 1428.  -329.0  0.0950  0.72  0.21  8.70  332.0  15.0 282.5  2.0    0  0.00   52. 1007.    4 NAD-SFC NoSubs
 9 12 22 356 14   82.1  0.706  1.323  0.005 1015. 1423.  -384.3  0.0950  0.72  0.22  8.70  334.0  15.0 282.8  2.0    0  0.00   49. 1006.    4 NAD-SFC NoSubs
 9 12 22 356 15   53.3  0.678  1.159  0.005 1048. 1342.  -524.6  0.0800  0.72  0.26  8.70  320.0  15.0 282.8  2.0    0  0.00   47. 1006.    3 NAD-SFC NoSubs
 9 12 22 356 16   13.4  0.399  0.734  0.006 1056.  692.  -424.8  0.0800  0.72  0.35  5.10  324.0  15.0 282.2  2.0    0  0.00   57. 1006.    3 NAD-SFC NoSubs
 9 12 22 356 17  -33.7  0.334 -9.000 -9.000 -999.  471.    99.5  0.0800  0.72  0.64  4.60  315.0  15.0 280.8  2.0    0  0.00   64. 1005.    3 NAD-SFC NoSubs
 9 12 22 356 18  -32.8  0.296 -9.000 -9.000 -999.  387.    70.8  0.0800  0.72  1.00  4.10  315.0  15.0 279.6  2.0    0  0.00   67. 1006.    2 NAD-SFC NoSubs
 9 12 22 356 19  -22.8  0.220 -9.000 -9.000 -999.  250.    42.0  0.0800  0.72  1.00  3.10  306.0  15.0 278.9  2.0    0  0.00   70. 1006.    2 NAD-SFC NoSubs
 9 12 22 356 20   -5.3  0.105 -9.000 -9.000 -999.   90.    19.8  0.0800  0.72  1.00  1.50  326.0  15.0 278.5  2.0    0  0.00   70. 1006.    2 NAD-SFC NoSubs
 9 12 22 356 21   -1.0  0.067 -9.000 -9.000 -999.   42.    26.8  0.0280  0.72  1.00  0.50  148.0  15.0 278.1  2.0    0  0.00   71. 1007.    2 NAD-SFC NoSubs
 9 12 22 356 22   -2.4  0.077 -9.000 -9.000 -999.   51.    17.5  0.0310  0.72  1.00  1.00  117.0  15.0 278.2  2.0    0  0.00   68. 1007.    2 NAD-SFC NoSubs
 9 12 22 356 23  -11.8  0.150 -9.000 -9.000 -999.  139.    25.6  0.0280  0.72  1.00  2.60  127.0  15.0 278.0  2.0    0  0.00   67. 1007.    2 NAD-SFC NoSubs
 9 12 22 356 24  -11.8  0.150 -9.000 -9.000 -999.  139.    25.6  0.0280  0.72  1.00  2.60  128.0  15.0 278.0  2.0    0  0.00   66. 1008.    2 NAD-SFC NoSubs
 9 12 23 357  1   -4.2  0.091 -9.000 -9.000 -999.   67.    16.4  0.0310  0.72  1.00  1.50   99.0  15.0 278.0  2.0    0  0.00   63. 1009.    2 NAD-SFC NoSubs
 9 12 23 357  2   -1.0  0.068 -9.000 -9.000 -999.   42.    27.0  0.0310  0.72  1.00  0.50   90.0  15.0 277.6  2.0    0  0.00   63. 1009.    2 NAD-SFC NoSubs
 9 12 23 357  3   -1.2  0.074 -9.000 -9.000 -999.   49.    29.5  0.0800  0.72  1.00  0.50  309.0  15.0 277.0  2.0    0  0.00   64. 1010.    2 NAD-SFC NoSubs
 9 12 23 357  4   -1.3  0.074 -9.000 -9.000 -999.   49.    29.5  0.0800  0.72  1.00  0.50  320.0  15.0 276.6  2.0    0  0.00   64. 1010.    2 NAD-SFC NoSubs
 9 12 23 357  5   -1.3  0.074 -9.000 -9.000 -999.   49.    29.5  0.0800  0.72  1.00  0.50  307.0  15.0 276.2  2.0    0  0.00   65. 1011.    2 NAD-SFC NoSubs
 9 12 23 357  6   -1.1  0.070 -9.000 -9.000 -999.   44.    27.8  0.0420  0.72  1.00  0.50  271.0  15.0 275.9  2.0    0  0.00   66. 1011.    2 NAD-SFC NoSubs
 9 12 23 357  7   -1.0  0.066 -9.000 -9.000 -999.   40.    26.1  0.0200  0.72  1.00  0.50  249.0  15.0 275.5  2.0    0  0.00   66. 1012.    2 NAD-SFC NoSubs
 9 12 23 357  8   -3.6  0.085 -9.000 -9.000 -999.   60.    15.7  0.0220  0.72  0.59  1.50  237.0  15.0 275.1  2.0    0  0.00   68. 1012.    2 NAD-SFC NoSubs
 9 12 23 357  9   15.7  0.085  0.329  0.007   81.   60.    -3.6  0.0200  0.72  0.34  1.00  255.0  15.0 276.0  2.0    0  0.00   65. 1012.    2 NAD-SFC NoSubs
 9 12 23 357 10   55.2  0.080  0.759  0.008  286.   54.    -1.0  0.0800  0.72  0.25  0.50  320.0  15.0 278.1  2.0    0  0.00   55. 1012.    2 NAD-SFC NoSubs
 9 12 23 357 11   83.1 -9.000 -9.000 -9.000  433. -999. -99999.0  0.0471  0.72  0.22  0.00    0.0  15.0 279.1  2.0    0  0.00   52. 1011.    2 NAD-SFC NoSubs
 9 12 23 357 12   97.1 -9.000 -9.000 -9.000  530. -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0 280.2  2.0    0  0.00   50. 1011.    2 NAD-SFC NoSubs
 9 12 23 357 13   96.5  0.068  1.180  0.008  613.   43.    -1.0  0.0220  0.72  0.21  0.50  239.0  15.0 281.2  2.0    0  0.00   47. 1010.    2 NAD-SFC NoSubs
 9 12 23 357 14   81.3  0.084  1.151  0.007  675.   58.    -1.0  0.0800  0.72  0.22  0.50  316.0  15.0 282.2  2.0    0  0.00   45. 1010.    2 NAD-SFC NoSubs
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 9 12 23 357 15    52.2  0.165  1.012  0.007  713.  161.     -7.7  0.0950  0.72  0.26  1.50  350.0  15.0  282.6  2.0  0  0.00  45.  1009.  2 NAD-SFC NoSubs
 9 12 23 357 16    12.1  0.145  0.624  0.007  721.  132.    -22.4  0.0950  0.72  0.35  1.50  358.0  15.0  282.5  2.0  0  0.00  49.  1010.  2 NAD-SFC NoSubs
 9 12 23 357 17    -1.2  0.073 -9.000 -9.000 -999.   49.     29.1  0.0960  0.72  0.64  0.50    8.0  15.0  281.8  2.0  0  0.00  52.  1010.  2 NAD-SFC NoSubs
 9 12 23 357 18  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  280.8  2.0  0  0.00  57.  1010.  2 NAD-SFC NoSubs
 9 12 23 357 19    -1.0  0.068 -9.000 -9.000 -999.   42.     27.0  0.0310  0.72  1.00  0.50  116.0  15.0  279.8  2.0  0  0.00  63.  1011.  2 NAD-SFC NoSubs
 9 12 23 357 20    -2.3  0.076 -9.000 -9.000 -999.   51.     17.3  0.0280  0.72  1.00  1.00  129.0  15.0  278.8  2.0  0  0.00  69.  1011.  2 NAD-SFC NoSubs
 9 12 23 357 21    -2.3  0.076 -9.000 -9.000 -999.   51.     17.3  0.0280  0.72  1.00  1.00  126.0  15.0  277.9  2.0  0  0.00  72.  1011.  2 NAD-SFC NoSubs
 9 12 23 357 22    -1.0  0.068 -9.000 -9.000 -999.   42.     27.0  0.0310  0.72  1.00  0.50  107.0  15.0  277.2  2.0  0  0.00  75.  1012.  2 NAD-SFC NoSubs
 9 12 23 357 23    -1.1  0.069 -9.000 -9.000 -999.   44.     27.7  0.0400  0.72  1.00  0.50   88.0  15.0  276.8  2.0  0  0.00  78.  1012.  2 NAD-SFC NoSubs
 9 12 23 357 24    -1.1  0.070 -9.000 -9.000 -999.   44.     27.7  0.0400  0.72  1.00  0.50   89.0  15.0  276.0  2.0  0  0.00  82.  1012.  2 NAD-SFC NoSubs
 9 12 24 358  1  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  275.5  2.0  0  0.00  84.  1012.  2 NAD-SFC NoSubs
 9 12 24 358  2  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  275.1  2.0  0  0.00  86.  1012.  2 NAD-SFC NoSubs
 9 12 24 358  3    -1.1  0.070 -9.000 -9.000 -999.   44.     27.9  0.0420  0.72  1.00  0.50  280.0  15.0  275.0  2.0  0  0.00  85.  1012.  2 NAD-SFC NoSubs
 9 12 24 358  4    -2.5  0.080 -9.000 -9.000 -999.   54.     18.1  0.0420  0.72  1.00  1.00  294.0  15.0  274.9  2.0  0  0.00  84.  1012.  2 NAD-SFC NoSubs
 9 12 24 358  5    -2.5  0.080 -9.000 -9.000 -999.   54.     18.1  0.0420  0.72  1.00  1.00  295.0  15.0  274.8  2.0  0  0.00  84.  1012.  2 NAD-SFC NoSubs
 9 12 24 358  6    -4.5  0.095 -9.000 -9.000 -999.   71.     17.3  0.0420  0.72  1.00  1.50  292.0  15.0  274.5  2.0  0  0.00  84.  1012.  2 NAD-SFC NoSubs
 9 12 24 358  7    -4.5  0.095 -9.000 -9.000 -999.   71.     17.3  0.0420  0.72  1.00  1.50  277.0  15.0  274.4  2.0  0  0.00  83.  1012.  2 NAD-SFC NoSubs
 9 12 24 358  8    -4.2  0.094 -9.000 -9.000 -999.   69.     17.8  0.0420  0.72  0.60  1.50  292.0  15.0  274.2  2.0  0  0.00  82.  1012.  2 NAD-SFC NoSubs
 9 12 24 358  9    15.4  0.143  0.285  0.012   54.  129.    -17.1  0.0800  0.72  0.34  1.50  308.0  15.0  275.8  2.0  0  0.00  73.  1013.  2 NAD-SFC NoSubs
 9 12 24 358 10    55.0  0.161  0.609  0.012  148.  155.     -6.8  0.0800  0.72  0.25  1.50  324.0  15.0  278.0  2.0  0  0.00  64.  1013.  2 NAD-SFC NoSubs
 9 12 24 358 11    83.1  0.129  0.861  0.012  277.  111.     -2.3  0.0800  0.72  0.22  1.00  328.0  15.0  279.9  2.0  0  0.00  57.  1012.  2 NAD-SFC NoSubs
 9 12 24 358 12    97.4  0.135  1.020  0.013  393.  119.     -2.3  0.0950  0.72  0.21  1.00  333.0  15.0  281.8  2.0  0  0.00  52.  1012.  2 NAD-SFC NoSubs
 9 12 24 358 13    97.0  0.171  1.078  0.013  467.  170.     -4.6  0.0800  0.72  0.21  1.50  327.0  15.0  283.1  2.0  0  0.00  46.  1011.  2 NAD-SFC NoSubs
 9 12 24 358 14    81.9  0.173  1.058  0.013  521.  173.     -5.7  0.0950  0.72  0.22  1.50  337.0  15.0  283.8  2.0  0  0.00  44.  1010.  2 NAD-SFC NoSubs
 9 12 24 358 15    52.8  0.210  0.933  0.013  553.  231.    -15.8  0.0950  0.72  0.26  2.10  355.0  15.0  284.0  2.0  0  0.00  45.  1010.  2 NAD-SFC NoSubs
 9 12 24 358 16    12.7  0.189  0.583  0.013  560.  197.    -47.6  0.0960  0.72  0.35  2.10    4.0  15.0  283.6  2.0  0  0.00  50.  1010.  2 NAD-SFC NoSubs
 9 12 24 358 17     3.6 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.64  0.00    0.0  15.0  282.8  2.0  0  0.00  53.  1010.  2 NAD-SFC NoSubs
 9 12 24 358 18    -5.5  0.108 -9.000 -9.000 -999.   86.     20.7  0.0950  0.72  1.00  1.50  356.0  15.0  281.8  2.0  0  0.00  58.  1010.  2 NAD-SFC NoSubs
 9 12 24 358 19    -1.3  0.075 -9.000 -9.000 -999.   49.     29.8  0.0950  0.72  1.00  0.50  345.0  15.0  280.6  2.0  0  0.00  64.  1010.  2 NAD-SFC NoSubs
 9 12 24 358 20    -1.3  0.075 -9.000 -9.000 -999.   50.     29.8  0.0950  0.72  1.00  0.50  337.0  15.0  279.5  2.0  0  0.00  69.  1010.  2 NAD-SFC NoSubs
 9 12 24 358 21  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  278.6  2.0  0  0.00  73.  1010.  2 NAD-SFC NoSubs
 9 12 24 358 22    -1.3  0.076 -9.000 -9.000 -999.   50.     29.9  0.0960  0.72  1.00  0.50    5.0  15.0  277.9  2.0  0  0.00  77.  1010.  2 NAD-SFC NoSubs
 9 12 24 358 23    -3.0  0.087 -9.000 -9.000 -999.   62.     20.0  0.0950  0.72  1.00  1.00  351.0  15.0  277.4  2.0  0  0.00  79.  1010.  2 NAD-SFC NoSubs
 9 12 24 358 24    -3.0  0.087 -9.000 -9.000 -999.   62.     20.0  0.0950  0.72  1.00  1.00  343.0  15.0  276.8  2.0  0  0.00  81.  1010.  2 NAD-SFC NoSubs
 9 12 25 359  1    -2.9  0.086 -9.000 -9.000 -999.   60.     19.6  0.0800  0.72  1.00  1.00  320.0  15.0  276.4  2.0  0  0.00  83.  1010.  2 NAD-SFC NoSubs
 9 12 25 359  2    -5.3  0.105 -9.000 -9.000 -999.   82.     19.8  0.0800  0.72  1.00  1.50  307.0  15.0  276.0  2.0  0  0.00  84.  1010.  2 NAD-SFC NoSubs
 9 12 25 359  3    -5.3  0.105 -9.000 -9.000 -999.   82.     19.8  0.0800  0.72  1.00  1.50  310.0  15.0  275.8  2.0  0  0.00  85.  1010.  2 NAD-SFC NoSubs
 9 12 25 359  4    -5.3  0.105 -9.000 -9.000 -999.   82.     19.8  0.0800  0.72  1.00  1.50  310.0  15.0  275.4  2.0  0  0.00  85.  1010.  2 NAD-SFC NoSubs
 9 12 25 359  5    -5.3  0.105 -9.000 -9.000 -999.   82.     19.8  0.0800  0.72  1.00  1.50  309.0  15.0  275.1  2.0  0  0.00  84.  1010.  2 NAD-SFC NoSubs
 9 12 25 359  6    -5.4  0.105 -9.000 -9.000 -999.   82.     19.8  0.0800  0.72  1.00  1.50  301.0  15.0  274.9  2.0  0  0.00  83.  1011.  2 NAD-SFC NoSubs
 9 12 25 359  7    -4.5  0.095 -9.000 -9.000 -999.   71.     17.3  0.0420  0.72  1.00  1.50  289.0  15.0  274.8  2.0  0  0.00  82.  1011.  2 NAD-SFC NoSubs
 9 12 25 359  8    -4.2  0.094 -9.000 -9.000 -999.   69.     17.7  0.0420  0.72  0.60  1.50  277.0  15.0  274.6  2.0  0  0.00  80.  1011.  2 NAD-SFC NoSubs
 9 12 25 359  9    15.2  0.185  0.280  0.011   52.  191.    -37.5  0.0800  0.72  0.34  2.10  305.0  15.0  276.1  2.0  0  0.00  68.  1011.  2 NAD-SFC NoSubs
 9 12 25 359 10    54.8  0.144  0.593  0.011  137.  132.     -4.9  0.0420  0.72  0.25  1.50  299.0  15.0  278.2  2.0  0  0.00  55.  1011.  2 NAD-SFC NoSubs
 9 12 25 359 11    83.0  0.150  0.842  0.010  259.  140.     -3.7  0.0420  0.72  0.22  1.50  296.0  15.0  279.9  2.0  0  0.00  49.  1011.  2 NAD-SFC NoSubs
 9 12 25 359 12    97.4  0.131  1.000  0.010  370.  114.     -2.1  0.0800  0.72  0.21  1.00  304.0  15.0  281.8  2.0  0  0.00  44.  1010.  2 NAD-SFC NoSubs
 9 12 25 359 13    97.1  0.131  1.077  0.010  463.  114.     -2.1  0.0800  0.72  0.21  1.00  310.0  15.0  283.2  2.0  0  0.00  40.  1009.  2 NAD-SFC NoSubs
 9 12 25 359 14    82.2  0.129  1.067  0.010  532.  111.     -2.3  0.0800  0.72  0.22  1.00  319.0  15.0  283.9  2.0  0  0.00  38.  1008.  2 NAD-SFC NoSubs
 9 12 25 359 15    53.2  0.165  0.946  0.010  572.  161.     -7.6  0.0950  0.72  0.25  1.50  340.0  15.0  284.2  2.0  0  0.00  38.  1007.  2 NAD-SFC NoSubs
 9 12 25 359 16    13.2  0.145  0.598  0.010  581.  133.    -20.9  0.0950  0.72  0.35  1.50  353.0  15.0  283.9  2.0  0  0.00  42.  1007.  2 NAD-SFC NoSubs
 9 12 25 359 17    -5.3  0.108 -9.000 -9.000 -999.   85.     21.3  0.0960  0.72  0.63  1.50   12.0  15.0  283.0  2.0  0  0.00  46.  1006.  2 NAD-SFC NoSubs
 9 12 25 359 18    -1.3  0.075 -9.000 -9.000 -999.   49.     29.7  0.0950  0.72  1.00  0.50  345.0  15.0  281.8  2.0  0  0.00  52.  1007.  2 NAD-SFC NoSubs
 9 12 25 359 19  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  280.6  2.0  0  0.00  57.  1007.  2 NAD-SFC NoSubs
 9 12 25 359 20  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  279.5  2.0  0  0.00  63.  1007.  2 NAD-SFC NoSubs
 9 12 25 359 21  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  278.6  2.0  0  0.00  68.  1008.  2 NAD-SFC NoSubs
 9 12 25 359 22  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  277.8  2.0  0  0.00  72.  1008.  2 NAD-SFC NoSubs
 9 12 25 359 23  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  277.1  2.0  0  0.00  74.  1009.  2 NAD-SFC NoSubs
 9 12 25 359 24  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  276.6  2.0  0  0.00  77.  1009.  2 NAD-SFC NoSubs
 9 12 26 360  1  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  276.1  2.0  0  0.00  78.  1009.  2 NAD-SFC NoSubs
 9 12 26 360  2  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  275.8  2.0  0  0.00  79.  1009.  2 NAD-SFC NoSubs
 9 12 26 360  3    -1.1  0.070 -9.000 -9.000 -999.   44.     27.9  0.0420  0.72  1.00  0.50  297.0  15.0  275.8  2.0  0  0.00  78.  1009.  2 NAD-SFC NoSubs
 9 12 26 360  4    -3.0  0.088 -9.000 -9.000 -999.   62.     20.1  0.0960  0.72  1.00  1.00    8.0  15.0  275.8  2.0  0  0.00  77.  1009.  2 NAD-SFC NoSubs
 9 12 26 360  5    -2.9  0.086 -9.000 -9.000 -999.   60.     19.6  0.0800  0.72  1.00  1.00  309.0  15.0  275.8  2.0  0  0.00  77.  1009.  2 NAD-SFC NoSubs
 9 12 26 360  6    -3.0  0.088 -9.000 -9.000 -999.   62.     20.0  0.0950  0.72  1.00  1.00  352.0  15.0  275.9  2.0  0  0.00  75.  1010.  2 NAD-SFC NoSubs
 9 12 26 360  7    -1.3  0.076 -9.000 -9.000 -999.   50.     30.0  0.0950  0.72  1.00  0.50  347.0  15.0  276.0  2.0  0  0.00  74.  1010.  2 NAD-SFC NoSubs
 9 12 26 360  8    -1.2  0.072 -9.000 -9.000 -999.   46.     28.7  0.0960  0.72  0.60  0.50    3.0  15.0  276.0  2.0  0  0.00  74.  1011.  2 NAD-SFC NoSubs
 9 12 26 360  9    14.9  0.069  0.273  0.013   49.   44.     -2.0  0.0950  0.72  0.34  0.50  348.0  15.0  276.2  2.0  0  0.00  73.  1011.  2 NAD-SFC NoSubs
 9 12 26 360 10    54.5 -9.000 -9.000 -9.000  135. -999. -99999.0  0.0471  0.72  0.25  0.00    0.0  15.0  277.2  2.0  0  0.00  68.  1011.  2 NAD-SFC NoSubs
 9 12 26 360 11    82.9  0.133  0.847  0.008  265.  116.     -2.6  0.0950  0.72  0.22  1.00  347.0  15.0  279.2  2.0  0  0.00  57.  1011.  2 NAD-SFC NoSubs
 9 12 26 360 12    97.1  0.131  1.026  0.008  401.  114.     -2.1  0.0800  0.72  0.21  1.00  328.0  15.0  279.9  2.0  0  0.00  56.  1011.  2 NAD-SFC NoSubs
 9 12 26 360 13    96.7  0.171  1.111  0.008  511.  170.     -4.7  0.0800  0.72  0.21  1.50  319.0  15.0  280.1  2.0  0  0.00  58.  1011.  2 NAD-SFC NoSubs
 9 12 26 360 14    82.7  0.168  1.106  0.008  590.  165.     -5.1  0.0800  0.72  0.22  1.50  327.0  15.0  280.4  2.0  0  0.00  58.  1011.  3 NAD-SFC NoSubs
 9 12 26 360 15    54.1  0.166  0.985  0.008  636.  162.     -7.6  0.0950  0.72  0.25  1.50  343.0  15.0  280.4  2.0  0  0.00  61.  1010.  3 NAD-SFC NoSubs
 9 12 26 360 16    13.2  0.141  0.620  0.008  649.  127.    -19.1  0.0800  0.72  0.35  1.50  308.0  15.0  282.2  2.0  0  0.00  53.  1010.  2 NAD-SFC NoSubs
 9 12 26 360 17    -5.0  0.104 -9.000 -9.000 -999.   81.     20.4  0.0800  0.72  0.63  1.50  318.0  15.0  281.8  2.0  0  0.00  55.  1010.  2 NAD-SFC NoSubs
 9 12 26 360 18    -3.0  0.087 -9.000 -9.000 -999.   62.     20.0  0.0950  0.72  1.00  1.00  352.0  15.0  281.6  2.0  0  0.00  57.  1010.  2 NAD-SFC NoSubs
 9 12 26 360 19    -1.2  0.072 -9.000 -9.000 -999.   47.     28.8  0.0650  0.72  1.00  0.50   32.0  15.0  281.5  2.0  0  0.00  57.  1011.  2 NAD-SFC NoSubs
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 9 12 26 360 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 281.4  2.0   0  0.00  56. 1011.   2 NAD-SFC NoSubs
 9 12 26 360 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 281.1  2.0   0  0.00  59. 1011.   2 NAD-SFC NoSubs
 9 12 26 360 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 280.5  2.0   0  0.00  63. 1012.   2 NAD-SFC NoSubs
 9 12 26 360 23   -1.3  0.075 -9.000 -9.000 -999.   49.     29.8  0.0960  0.72  1.00  0.50  23.0  15.0 280.6  2.0   0  0.00  64. 1012.   2 NAD-SFC NoSubs
 9 12 26 360 24  -10.6  0.150 -9.000 -9.000 -999.  139.     28.6  0.0950  0.72  1.00  2.10 349.0  15.0 280.1  2.0   0  0.00  66. 1012.   3 NAD-SFC NoSubs
 9 12 27 361  1  -24.1  0.229 -9.000 -9.000 -999.  263.     45.1  0.0960  0.72  1.00  3.10  20.0  15.0 279.8  2.0   0  0.00  67. 1013.   3 NAD-SFC NoSubs
 9 12 27 361  2  -31.0  0.284 -9.000 -9.000 -999.  364.     67.0  0.0650  0.72  1.00  4.10  42.0  15.0 279.4  2.0   0  0.00  66. 1013.   3 NAD-SFC NoSubs
 9 12 27 361  3  -21.3  0.211 -9.000 -9.000 -999.  235.     40.1  0.0650  0.72  1.00  3.10  44.0  15.0 278.9  2.0   0  0.00  68. 1013.   3 NAD-SFC NoSubs
 9 12 27 361  4   -5.5  0.108 -9.000 -9.000 -999.   91.     20.8  0.0950  0.72  1.00  1.50 345.0  15.0 278.8  2.0   0  0.00  71. 1013.   3 NAD-SFC NoSubs
 9 12 27 361  5  -12.8  0.161 -9.000 -9.000 -999.  155.     29.5  0.0420  0.72  1.00  2.60 291.0  15.0 278.4  2.0   0  0.00  75. 1013.   4 NAD-SFC NoSubs
 9 12 27 361  6  -18.1  0.195 -9.000 -9.000 -999.  207.     37.3  0.0420  0.72  1.00  3.10 285.0  15.0 277.8  2.0   0  0.00  78. 1014.   5 NAD-SFC NoSubs
 9 12 27 361  7   -8.1  0.128 -9.000 -9.000 -999.  111.     23.7  0.0420  0.72  1.00  2.10 286.0  15.0 277.4  2.0   0  0.00  78. 1015.   5 NAD-SFC NoSubs
 9 12 27 361  8   -1.0  0.068 -9.000 -9.000 -999.   43.     27.3  0.0950  0.72  0.60  0.50 331.0  15.0 277.1  2.0   0  0.00  80. 1015.   5 NAD-SFC NoSubs
 9 12 27 361  9   17.7  0.066  0.317  0.010   65.   41.     -1.5  0.0650  0.72  0.34  0.50  44.0  15.0 278.2  2.0   0  0.00  77. 1015.   4 NAD-SFC NoSubs
 9 12 27 361 10   56.5 -9.000 -9.000 -9.000  173. -999. -99999.0  0.0471  0.72  0.25  0.00   0.0  15.0 281.1  2.0   0  0.00  65. 1015.   4 NAD-SFC NoSubs
 9 12 27 361 11   84.2 -9.000 -9.000 -9.000  311. -999. -99999.0  0.0471  0.72  0.22  0.00   0.0  15.0 283.0  2.0   0  0.00  60. 1015.   4 NAD-SFC NoSubs
 9 12 27 361 12   99.0 -9.000 -9.000 -9.000  486. -999. -99999.0  0.0471  0.72  0.21  0.00   0.0  15.0 284.6  2.0   0  0.00  54. 1014.   3 NAD-SFC NoSubs
 9 12 27 361 13   98.9  0.089  1.237  0.005  692.   64.     -1.0  0.0950  0.72  0.21  0.50 333.0  15.0 285.5  2.0   0  0.00  53. 1013.   3 NAD-SFC NoSubs
 9 12 27 361 14   84.2  0.174  1.258  0.005  855.  174.     -5.6  0.0950  0.72  0.22  1.50 332.0  15.0 285.9  2.0   0  0.00  52. 1013.   3 NAD-SFC NoSubs
 9 12 27 361 15   55.7  0.211  1.135  0.005  947.  233.    -15.2  0.0950  0.72  0.25  2.10 342.0  15.0 285.9  2.0   0  0.00  56. 1012.   3 NAD-SFC NoSubs
 9 12 27 361 16   14.4  0.226  0.729  0.005  968.  258.    -72.5  0.0950  0.72  0.35  2.60 350.0  15.0 285.4  2.0   0  0.00  60. 1012.   2 NAD-SFC NoSubs
 9 12 27 361 17  -22.2  0.230 -9.000 -9.000 -999.  264.     49.3  0.0960  0.72  0.62  3.10   6.0  15.0 284.6  2.0   0  0.00  64. 1011.   3 NAD-SFC NoSubs
 9 12 27 361 18  -10.6  0.150 -9.000 -9.000 -999.  142.     28.9  0.0960  0.72  1.00  2.10  11.0  15.0 283.8  2.0   0  0.00  68. 1011.   3 NAD-SFC NoSubs
 9 12 27 361 19   -1.2  0.074 -9.000 -9.000 -999.   51.     29.4  0.0950  0.72  1.00  0.50 341.0  15.0 283.0  2.0   0  0.00  72. 1012.   3 NAD-SFC NoSubs
 9 12 27 361 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 282.2  2.0   0  0.00  77. 1012.   3 NAD-SFC NoSubs
 9 12 27 361 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 281.6  2.0   0  0.00  80. 1013.   2 NAD-SFC NoSubs
 9 12 27 361 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 281.2  2.0   0  0.00  83. 1013.   2 NAD-SFC NoSubs
 9 12 27 361 23   -1.3  0.075 -9.000 -9.000 -999.   49.     29.8  0.0960  0.72  1.00  0.50   7.0  15.0 280.8  2.0   0  0.00  85. 1014.   2 NAD-SFC NoSubs
 9 12 27 361 24   -3.0  0.087 -9.000 -9.000 -999.   62.     20.0  0.0950  0.72  1.00  1.00 340.0  15.0 280.6  2.0   0  0.00  86. 1013.   2 NAD-SFC NoSubs
 9 12 28 362  1   -5.3  0.105 -9.000 -9.000 -999.   82.     19.9  0.0800  0.72  1.00  1.50 322.0  15.0 280.5  2.0   0  0.00  85. 1013.   2 NAD-SFC NoSubs
 9 12 28 362  2   -5.3  0.105 -9.000 -9.000 -999.   82.     19.9  0.0800  0.72  1.00  1.50 315.0  15.0 280.6  2.0   0  0.00  83. 1013.   2 NAD-SFC NoSubs
 9 12 28 362  3   -8.4  0.128 -9.000 -9.000 -999.  110.     22.4  0.0420  0.72  1.00  2.10 298.0  15.0 280.5  2.0   0  0.00  81. 1013.   2 NAD-SFC NoSubs
 9 12 28 362  4  -10.2  0.145 -9.000 -9.000 -999.  132.     26.8  0.0800  0.72  1.00  2.10 308.0  15.0 280.4  2.0   0  0.00  78. 1013.   2 NAD-SFC NoSubs
 9 12 28 362  5  -15.9  0.182 -9.000 -9.000 -999.  186.     34.3  0.0800  0.72  1.00  2.60 314.0  15.0 280.2  2.0   0  0.00  74. 1013.   2 NAD-SFC NoSubs
 9 12 28 362  6  -15.9  0.182 -9.000 -9.000 -999.  186.     34.3  0.0800  0.72  1.00  2.60 316.0  15.0 280.2  2.0   0  0.00  69. 1013.   2 NAD-SFC NoSubs
 9 12 28 362  7   -5.3  0.105 -9.000 -9.000 -999.   84.     19.9  0.0800  0.72  1.00  1.50 323.0  15.0 280.1  2.0   0  0.00  66. 1013.   2 NAD-SFC NoSubs
 9 12 28 362  8   -4.9  0.104 -9.000 -9.000 -999.   81.     20.6  0.0800  0.72  0.61  1.50 326.0  15.0 280.0  2.0   0  0.00  63. 1012.   2 NAD-SFC NoSubs
 9 12 28 362  9   15.1  0.106  0.311  0.009   72.   83.     -7.2  0.0800  0.72  0.34  1.00 323.0  15.0 280.0  2.0   0  0.00  61. 1012.   2 NAD-SFC NoSubs
 9 12 28 362 10   54.8  0.204  0.641  0.005  173.  222.    -14.1  0.0800  0.72  0.25  2.10 324.0  15.0 281.0  2.0   0  0.00  52. 1012.   2 NAD-SFC NoSubs
 9 12 28 362 11   83.3  0.248  0.907  0.005  323.  297.    -16.6  0.0800  0.72  0.22  2.60 322.0  15.0 281.9  2.0   0  0.00  50. 1011.   2 NAD-SFC NoSubs
 9 12 28 362 12   97.9  0.252  1.109  0.005  502.  303.    -14.7  0.0800  0.72  0.21  2.60 326.0  15.0 283.1  2.0   0  0.00  49. 1010.   2 NAD-SFC NoSubs
 9 12 28 362 13   97.9  0.260  1.215  0.005  661.  317.    -16.1  0.0950  0.72  0.21  2.60 336.0  15.0 284.1  2.0   0  0.00  48. 1010.   2 NAD-SFC NoSubs
 9 12 28 362 14   83.3  0.219  1.209  0.005  764.  247.    -11.4  0.0950  0.72  0.22  2.10 352.0  15.0 284.9  2.0   0  0.00  47. 1009.   2 NAD-SFC NoSubs
 9 12 28 362 15   54.7  0.248  1.078  0.005  825.  296.    -25.0  0.0950  0.72  0.25  2.60 346.0  15.0 285.2  2.0   0  0.00  47. 1009.   2 NAD-SFC NoSubs
 9 12 28 362 16   14.8  0.227  0.701  0.005  839.  260.    -71.3  0.0960  0.72  0.35  2.60  10.0  15.0 284.9  2.0   0  0.00  54. 1009.   2 NAD-SFC NoSubs
 9 12 28 362 17  -16.0  0.190 -9.000 -9.000 -999.  199.     38.7  0.0960  0.72  0.62  2.60  25.0  15.0 284.2  2.0   0  0.00  57. 1008.   2 NAD-SFC NoSubs
 9 12 28 362 18  -16.7  0.189 -9.000 -9.000 -999.  198.     36.5  0.0960  0.72  1.00  2.60  21.0  15.0 283.8  2.0   0  0.00  60. 1009.   2 NAD-SFC NoSubs
 9 12 28 362 19  -10.7  0.150 -9.000 -9.000 -999.  140.     28.5  0.0960  0.72  1.00  2.10  24.0  15.0 283.4  2.0   0  0.00  61. 1009.   2 NAD-SFC NoSubs
 9 12 28 362 20   -5.5  0.109 -9.000 -9.000 -999.   86.     20.8  0.0960  0.72  1.00  1.50  18.0  15.0 283.1  2.0   0  0.00  62. 1009.   2 NAD-SFC NoSubs
 9 12 28 362 21   -5.5  0.109 -9.000 -9.000 -999.   86.     20.8  0.0960  0.72  1.00  1.50   6.0  15.0 282.8  2.0   0  0.00  62. 1009.   2 NAD-SFC NoSubs
 9 12 28 362 22   -5.5  0.108 -9.000 -9.000 -999.   86.     20.7  0.0950  0.72  1.00  1.50 356.0  15.0 282.4  2.0   0  0.00  62. 1009.   2 NAD-SFC NoSubs
 9 12 28 362 23   -5.3  0.105 -9.000 -9.000 -999.   82.     19.9  0.0800  0.72  1.00  1.50 324.0  15.0 282.1  2.0   0  0.00  62. 1009.   2 NAD-SFC NoSubs
 9 12 28 362 24  -10.1  0.145 -9.000 -9.000 -999.  132.     26.8  0.0800  0.72  1.00  2.10 308.0  15.0 281.5  2.0   0  0.00  63. 1009.   2 NAD-SFC NoSubs
 9 12 29 363  1  -15.8  0.182 -9.000 -9.000 -999.  186.     34.3  0.0800  0.72  1.00  2.60 301.0  15.0 280.8  2.0   0  0.00  64. 1009.   2 NAD-SFC NoSubs
 9 12 29 363  2  -25.4  0.228 -9.000 -9.000 -999.  262.     42.2  0.0420  0.72  1.00  3.60 292.0  15.0 279.8  2.0   0  0.00  66. 1009.   2 NAD-SFC NoSubs
 9 12 29 363  3  -25.5  0.228 -9.000 -9.000 -999.  262.     42.0  0.0420  0.72  1.00  3.60 291.0  15.0 278.8  2.0   0  0.00  67. 1009.   2 NAD-SFC NoSubs
 9 12 29 363  4  -13.1  0.161 -9.000 -9.000 -999.  156.     28.4  0.0420  0.72  1.00  2.60 291.0  15.0 278.2  2.0   0  0.00  67. 1009.   2 NAD-SFC NoSubs
 9 12 29 363  5   -8.5  0.128 -9.000 -9.000 -999.  110.     22.3  0.0420  0.72  1.00  2.10 288.0  15.0 277.8  2.0   0  0.00  66. 1010.   2 NAD-SFC NoSubs
 9 12 29 363  6   -2.2  0.074 -9.000 -9.000 -999.   49.     16.7  0.0200  0.72  1.00  1.00 261.0  15.0 277.5  2.0   0  0.00  66. 1011.   2 NAD-SFC NoSubs
 9 12 29 363  7   -2.2  0.074 -9.000 -9.000 -999.   48.     16.7  0.0200  0.72  1.00  1.00 247.0  15.0 277.2  2.0   0  0.00  65. 1011.   2 NAD-SFC NoSubs
 9 12 29 363  8   -0.9  0.063 -9.000 -9.000 -999.   38.     25.2  0.0220  0.72  0.61  0.50 230.0  15.0 277.0  2.0   0  0.00  66. 1012.   2 NAD-SFC NoSubs
 9 12 29 363  9   16.2 -9.000 -9.000 -9.000   77. -999. -99999.0  0.0471  0.72  0.34  0.00   0.0  15.0 277.9  2.0   0  0.00  63. 1012.   3 NAD-SFC NoSubs
 9 12 29 363 10   55.8 -9.000 -9.000 -9.000  182. -999. -99999.0  0.0471  0.72  0.25  0.00   0.0  15.0 279.8  2.0   0  0.00  56. 1013.   3 NAD-SFC NoSubs
 9 12 29 363 11   83.2 -9.000 -9.000 -9.000  288. -999. -99999.0  0.0471  0.72  0.22  0.00   0.0  15.0 281.4  2.0   0  0.00  51. 1013.   2 NAD-SFC NoSubs
 9 12 29 363 12   98.0 -9.000 -9.000 -9.000  380. -999. -99999.0  0.0471  0.72  0.21  0.00   0.0  15.0 282.6  2.0   0  0.00  47. 1012.   2 NAD-SFC NoSubs
 9 12 29 363 13   98.0 -9.000 -9.000 -9.000  521. -999. -99999.0  0.0471  0.72  0.21  0.00   0.0  15.0 283.5  2.0   0  0.00  46. 1011.   2 NAD-SFC NoSubs
 9 12 29 363 14   83.5 -9.000 -9.000 -9.000  623. -999. -99999.0  0.0471  0.72  0.22  0.00   0.0  15.0 284.2  2.0   0  0.00  45. 1011.   2 NAD-SFC NoSubs
 9 12 29 363 15   55.0 -9.000 -9.000 -9.000  691. -999. -99999.0  0.0471  0.72  0.25  0.00   0.0  15.0 284.6  2.0   0  0.00  44. 1010.   2 NAD-SFC NoSubs
 9 12 29 363 16   15.2 -9.000 -9.000 -9.000  711. -999. -99999.0  0.0471  0.72  0.34  0.00   0.0  15.0 284.6  2.0   0  0.00  46. 1010.   2 NAD-SFC NoSubs
 9 12 29 363 17   -1.0  0.066 -9.000 -9.000 -999.   40.     26.4  0.0400  0.72  0.61  0.50  78.0  15.0 284.0  2.0   0  0.00  50. 1010.   2 NAD-SFC NoSubs
 9 12 29 363 18   -1.0  0.067 -9.000 -9.000 -999.   42.     26.8  0.0310  0.72  1.00  0.50  91.0  15.0 283.2  2.0   0  0.00  54. 1010.   2 NAD-SFC NoSubs
 9 12 29 363 19   -2.3  0.077 -9.000 -9.000 -999.   51.     17.4  0.0310  0.72  1.00  1.00 116.0  15.0 282.5  2.0   0  0.00  59. 1010.   2 NAD-SFC NoSubs
 9 12 29 363 20   -4.1  0.090 -9.000 -9.000 -999.   65.     16.1  0.0280  0.72  1.00  1.50 136.0  15.0 281.9  2.0   0  0.00  61. 1011.   2 NAD-SFC NoSubs
 9 12 29 363 21   -7.3  0.117 -9.000 -9.000 -999.   96.     19.6  0.0240  0.72  1.00  2.10 158.0  15.0 281.6  2.0   0  0.00  63. 1011.   2 NAD-SFC NoSubs
 9 12 29 363 22  -11.3  0.146 -9.000 -9.000 -999.  134.     24.8  0.0240  0.72  1.00  2.60 151.0  15.0 281.5  2.0   0  0.00  63. 1011.   2 NAD-SFC NoSubs
 9 12 29 363 23  -17.0  0.181 -9.000 -9.000 -999.  185.     31.7  0.0280  0.72  1.00  3.10 136.0  15.0 281.4  2.0   0  0.00  63. 1011.   2 NAD-SFC NoSubs
 9 12 29 363 24  -17.0  0.181 -9.000 -9.000 -999.  185.     31.7  0.0280  0.72  1.00  3.10 136.0  15.0 281.4  2.0   0  0.00  62. 1011.   2 NAD-SFC NoSubs
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 9 12 30 364  1  -16.8  0.182 -9.000 -9.000 -999.  186.     32.2  0.0280  0.72  1.00  3.10  137.0  15.0  281.5  2.0   0  0.00   62.  1011.   3 NAD-SFC NoSubs
 9 12 30 364  2  -16.5  0.182 -9.000 -9.000 -999.  186.     32.9  0.0280  0.72  1.00  3.10  130.0  15.0  281.5  2.0   0  0.00   61.  1011.   4 NAD-SFC NoSubs
 9 12 30 364  3  -16.5  0.182 -9.000 -9.000 -999.  186.     32.9  0.0280  0.72  1.00  3.10  127.0  15.0  281.6  2.0   0  0.00   60.  1010.   4 NAD-SFC NoSubs
 9 12 30 364  4   -7.5  0.120 -9.000 -9.000 -999.  100.     20.6  0.0280  0.72  1.00  2.10  144.0  15.0  281.8  2.0   0  0.00   58.  1010.   3 NAD-SFC NoSubs
 9 12 30 364  5   -2.2  0.075 -9.000 -9.000 -999.   50.     17.1  0.0280  0.72  1.00  1.00  142.0  15.0  281.8  2.0   0  0.00   58.  1011.   3 NAD-SFC NoSubs
 9 12 30 364  6   -1.0  0.066 -9.000 -9.000 -999.   40.     26.4  0.0400  0.72  1.00  0.50   67.0  15.0  281.6  2.0   0  0.00   60.  1011.   5 NAD-SFC NoSubs
 9 12 30 364  7   -0.6  0.055 -9.000 -9.000 -999.   31.     23.0  0.0650  0.72  1.00  0.50   56.0  15.0  281.4  2.0   0  0.00   63.  1012.  10 NAD-SFC NoSubs
 9 12 30 364  8   -0.6  0.053 -9.000 -9.000 -999.   30.     22.6  0.0650  0.72  0.61  0.50   49.0  15.0  281.2  2.0   0  0.00   65.  1012.  10 NAD-SFC NoSubs
 9 12 30 364  9    4.6 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.34  0.00    0.0  15.0  281.2  2.0   0  0.00   67.  1012.  10 NAD-SFC NoSubs
 9 12 30 364 10    9.8  0.050  0.264  0.007   68.   27.     -1.2  0.0200  0.72  0.25  0.50  254.0  15.0  281.4  2.0   0  0.00   70.  1012.  10 NAD-SFC NoSubs
 9 12 30 364 11   17.3  0.089  0.376  0.006  111.   63.     -3.6  0.0240  0.72  0.22  1.00  154.0  15.0  283.1  2.0   0  0.00   60.  1012.  10 NAD-SFC NoSubs
 9 12 30 364 12   21.1  0.124  0.466  0.005  173.  104.     -8.1  0.0280  0.72  0.21  1.50  146.0  15.0  283.8  2.0   0  0.00   58.  1012.  10 NAD-SFC NoSubs
 9 12 30 364 13   21.1  0.058  0.512  0.005  229.   35.     -1.0  0.0280  0.72  0.21  0.50  148.0  15.0  284.0  2.0   0  0.00   59.  1012.  10 NAD-SFC NoSubs
 9 12 30 364 14   17.5  0.055  0.514  0.005  279.   31.     -1.0  0.0220  0.72  0.22  0.50  205.0  15.0  284.1  2.0   0  0.00   62.  1012.  10 NAD-SFC NoSubs
 9 12 30 364 15   10.3  0.083  0.444  0.005  305.   58.     -5.0  0.0220  0.72  0.25  1.00  231.0  15.0  284.0  2.0   0  0.00   65.  1011.  10 NAD-SFC NoSubs
 9 12 30 364 16   18.1  0.087  0.559  0.005  346.   61.     -3.2  0.0200  0.72  0.34  1.00  252.0  15.0  283.8  2.0   0  0.00   66.  1011.   6 NAD-SFC NoSubs
 9 12 30 364 17   -1.8  0.068 -9.000 -9.000 -999.   43.     15.9  0.0200  0.72  0.61  1.00  241.0  15.0  283.2  2.0   0  0.00   69.  1011.   4 NAD-SFC NoSubs
 9 12 30 364 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.6  2.0   0  0.00   74.  1012.   4 NAD-SFC NoSubs
 9 12 30 364 19   -1.1  0.068 -9.000 -9.000 -999.   43.     27.3  0.0400  0.72  1.00  0.50   88.0  15.0  281.8  2.0   0  0.00   79.  1013.   3 NAD-SFC NoSubs
 9 12 30 364 20   -1.0  0.067 -9.000 -9.000 -999.   42.     26.9  0.0310  0.72  1.00  0.50  110.0  15.0  280.9  2.0   0  0.00   84.  1013.   2 NAD-SFC NoSubs
 9 12 30 364 21   -2.4  0.077 -9.000 -9.000 -999.   51.     17.4  0.0310  0.72  1.00  1.00  117.0  15.0  280.2  2.0   0  0.00   88.  1014.   2 NAD-SFC NoSubs
 9 12 30 364 22   -7.6  0.120 -9.000 -9.000 -999.   99.     20.3  0.0280  0.72  1.00  2.10  131.0  15.0  279.8  2.0   0  0.00   92.  1015.   2 NAD-SFC NoSubs
 9 12 30 364 23  -17.1  0.181 -9.000 -9.000 -999.  185.     31.5  0.0280  0.72  1.00  3.10  128.0  15.0  279.5  2.0   0  0.00   94.  1015.   2 NAD-SFC NoSubs
 9 12 30 364 24  -17.1  0.181 -9.000 -9.000 -999.  185.     31.5  0.0280  0.72  1.00  3.10  128.0  15.0  279.6  2.0   0  0.00   95.  1015.   2 NAD-SFC NoSubs
 9 12 31 365  1   -4.2  0.091 -9.000 -9.000 -999.   70.     16.4  0.0310  0.72  1.00  1.50  117.0  15.0  279.1  2.0   0  0.00   98.  1015.   2 NAD-SFC NoSubs
 9 12 31 365  2   -1.0  0.068 -9.000 -9.000 -999.   42.     27.0  0.0310  0.72  1.00  0.50   92.0  15.0  277.5  2.0   0  0.00  100.  1015.   2 NAD-SFC NoSubs
 9 12 31 365  3   -1.3  0.074 -9.000 -9.000 -999.   49.     29.5  0.0800  0.72  1.00  0.50  315.0  15.0  276.4  2.0   0  0.00  100.  1015.   2 NAD-SFC NoSubs
 9 12 31 365  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  276.2  2.0   0  0.00  100.  1016.   2 NAD-SFC NoSubs
 9 12 31 365  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  276.0  2.0   0  0.00  100.  1016.   2 NAD-SFC NoSubs
 9 12 31 365  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  276.4  2.0   0  0.00  100.  1016.   2 NAD-SFC NoSubs
 9 12 31 365  7   -1.3  0.076 -9.000 -9.000 -999.   50.     29.9  0.0950  0.72  1.00  0.50  343.0  15.0  277.1  2.0   0  0.00  100.  1017.   2 NAD-SFC NoSubs
 9 12 31 365  8   -2.8  0.084 -9.000 -9.000 -999.   59.     19.7  0.0950  0.72  0.61  1.00  334.0  15.0  277.2  2.0   0  0.00  100.  1017.   2 NAD-SFC NoSubs
 9 12 31 365  9   14.2  0.106  0.263  0.011   46.   83.     -7.6  0.0800  0.72  0.34  1.00  323.0  15.0  277.2  2.0   0  0.00  100.  1018.   2 NAD-SFC NoSubs
 9 12 31 365 10   54.2  0.122  0.517  0.009   93.  102.     -3.1  0.0800  0.72  0.25  1.00  329.0  15.0  277.8  2.0   0  0.00  100.  1018.   2 NAD-SFC NoSubs
 9 12 31 365 11   82.9  0.173  0.828  0.008  248.  173.     -5.7  0.0950  0.72  0.22  1.50  333.0  15.0  278.2  2.0   0  0.00  100.  1018.   2 NAD-SFC NoSubs
 9 12 31 365 12   97.6  0.176  1.029  0.009  405.  178.     -5.1  0.0950  0.72  0.21  1.50  340.0  15.0  278.8  2.0   0  0.00  100.  1017.   2 NAD-SFC NoSubs
 9 12 31 365 13   97.9  0.177  1.114  0.009  512.  179.     -5.1  0.0960  0.72  0.21  1.50    3.0  15.0  279.8  2.0   0  0.00   96.  1016.   2 NAD-SFC NoSubs
 9 12 31 365 14   84.7  0.174  1.113  0.009  590.  174.     -5.6  0.0960  0.72  0.22  1.50    1.0  15.0  281.2  2.0   0  0.00   88.  1016.   3 NAD-SFC NoSubs
 9 12 31 365 15   56.6 -9.000 -9.000 -9.000  637. -999. -99999.0  0.0471  0.72  0.25  0.00    0.0  15.0  281.8  2.0   0  0.00   85.  1016.   3 NAD-SFC NoSubs
 9 12 31 365 16   18.0  0.266  0.688  0.009  656.  330.    -94.9  0.0960  0.72  0.34  3.10   14.0  15.0  285.1  2.0   0  0.00   80.  1015.   3 NAD-SFC NoSubs
 9 12 31 365 17  -15.6  0.191 -9.000 -9.000 -999.  202.     40.2  0.0960  0.72  0.60  2.60   10.0  15.0  284.2  2.0   0  0.00   86.  1015.   3 NAD-SFC NoSubs
 9 12 31 365 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  283.5  2.0   0  0.00   89.  1015.   3 NAD-SFC NoSubs
 9 12 31 365 19   -2.9  0.086 -9.000 -9.000 -999.   61.     19.9  0.0950  0.72  1.00  1.00  353.0  15.0  283.1  2.0   0  0.00   90.  1016.   3 NAD-SFC NoSubs
 9 12 31 365 20   -1.3  0.074 -9.000 -9.000 -999.   48.     29.4  0.0950  0.72  1.00  0.50  347.0  15.0  282.8  2.0   0  0.00   92.  1016.   3 NAD-SFC NoSubs
 9 12 31 365 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.5  2.0   0  0.00   94.  1016.   4 NAD-SFC NoSubs
 9 12 31 365 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.4  2.0   0  0.00   94.  1017.   4 NAD-SFC NoSubs
 9 12 31 365 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.5  2.0   0  0.00   94.  1017.   4 NAD-SFC NoSubs
 9 12 31 365 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.4  2.0   0  0.00   94.  1017.   3 NAD-SFC NoSubs
10  1  1   1  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.2  2.0   0  0.00   94.  1016.   3 NAD-SFC NoSubs
10  1  1   1  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.2  2.0   0  0.00   94.  1016.   3 NAD-SFC NoSubs
10  1  1   1  3   -1.1  0.068 -9.000 -9.000 -999.   43.     27.2  0.0400  0.72  1.00  0.50   64.0  15.0  282.2  2.0   0  0.00   94.  1016.   3 NAD-SFC NoSubs
10  1  1   1  4   -2.4  0.078 -9.000 -9.000 -999.   52.     17.8  0.0400  0.72  1.00  1.00   63.0  15.0  282.2  2.0   0  0.00   93.  1016.   3 NAD-SFC NoSubs
10  1  1   1  5   -1.2  0.071 -9.000 -9.000 -999.   46.     28.5  0.0650  0.72  1.00  0.50   43.0  15.0  282.2  2.0   0  0.00   92.  1016.   3 NAD-SFC NoSubs
10  1  1   1  6   -1.3  0.074 -9.000 -9.000 -999.   48.     29.5  0.0950  0.72  1.00  0.50  342.0  15.0  282.2  2.0   0  0.00   92.  1015.   3 NAD-SFC NoSubs
10  1  1   1  7   -1.2  0.073 -9.000 -9.000 -999.   47.     29.0  0.0800  0.72  1.00  0.50  315.0  15.0  282.2  2.0   0  0.00   91.  1015.   3 NAD-SFC NoSubs
10  1  1   1  8   -1.1  0.071 -9.000 -9.000 -999.   45.     28.3  0.0950  0.72  0.61  0.50  333.0  15.0  282.2  2.0   0  0.00   91.  1015.   3 NAD-SFC NoSubs
10  1  1   1  9   16.7  0.111  0.331  0.012   78.   89.     -7.4  0.0950  0.72  0.34  1.00  357.0  15.0  282.6  2.0   0  0.00   89.  1015.   3 NAD-SFC NoSubs
10  1  1   1 10   56.9 -9.000 -9.000 -9.000  185. -999. -99999.0  0.0471  0.72  0.25  0.00    0.0  15.0  283.9  2.0   0  0.00   78.  1015.   4 NAD-SFC NoSubs
10  1  1   1 11   85.0  0.133  0.879  0.010  289.  117.     -2.5  0.0950  0.72  0.22  1.00  354.0  15.0  284.8  2.0   0  0.00   72.  1015.   4 NAD-SFC NoSubs
10  1  1   1 12   99.6  0.131  1.014  0.009  379.  114.     -2.1  0.0800  0.72  0.21  1.00  326.0  15.0  285.8  2.0   0  0.00   69.  1014.   4 NAD-SFC NoSubs
10  1  1   1 13  100.1  0.131  1.099  0.008  480.  114.     -2.1  0.0800  0.72  0.21  1.00  313.0  15.0  286.5  2.0   0  0.00   66.  1014.   4 NAD-SFC NoSubs
10  1  1   1 14   86.3  0.115  1.099  0.008  556.   94.     -1.6  0.0420  0.72  0.22  1.00  299.0  15.0  286.9  2.0   0  0.00   64.  1013.   4 NAD-SFC NoSubs
10  1  1   1 15   58.8  0.110  0.994  0.007  603.   88.     -2.1  0.0420  0.72  0.25  1.00  292.0  15.0  287.0  2.0   0  0.00   66.  1013.   4 NAD-SFC NoSubs
10  1  1   1 16   20.2  0.070  0.703  0.007  618.   44.     -1.5  0.0800  0.72  0.34  0.50  314.0  15.0  286.8  2.0   0  0.00   68.  1012.   4 NAD-SFC NoSubs
10  1  1   1 17   -1.0  0.068 -9.000 -9.000 -999.   42.     27.3  0.0960  0.72  0.60  0.50   21.0  15.0  286.4  2.0   0  0.00   70.  1012.   4 NAD-SFC NoSubs
10  1  1   1 18   -1.1  0.070 -9.000 -9.000 -999.   44.     28.0  0.0650  0.72  1.00  0.50   57.0  15.0  285.8  2.0   0  0.00   73.  1012.   4 NAD-SFC NoSubs
10  1  1   1 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  285.1  2.0   0  0.00   77.  1012.   4 NAD-SFC NoSubs
10  1  1   1 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  284.2  2.0   0  0.00   81.  1012.   4 NAD-SFC NoSubs
10  1  1   1 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  283.6  2.0   0  0.00   85.  1012.   4 NAD-SFC NoSubs
10  1  1   1 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  283.0  2.0   0  0.00   88.  1012.   4 NAD-SFC NoSubs
10  1  1   1 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.5  2.0   0  0.00   90.  1012.   4 NAD-SFC NoSubs
10  1  1   1 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.0  2.0   0  0.00   93.  1012.   4 NAD-SFC NoSubs
10  1  2   2  1   -1.0  0.067 -9.000 -9.000 -999.   42.     26.9  0.0400  0.72  1.00  0.50   76.0  15.0  281.8  2.0   0  0.00   95.  1012.   4 NAD-SFC NoSubs
10  1  2   2  2   -1.0  0.067 -9.000 -9.000 -999.   42.     26.9  0.0400  0.72  1.00  0.50   62.0  15.0  281.2  2.0   0  0.00   96.  1012.   4 NAD-SFC NoSubs
10  1  2   2  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  281.1  2.0   0  0.00   97.  1012.   4 NAD-SFC NoSubs
10  1  2   2  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  280.8  2.0   0  0.00   99.  1012.   3 NAD-SFC NoSubs
10  1  2   2  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  280.4  2.0   0  0.00  100.  1013.   3 NAD-SFC NoSubs
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10  1  2   2  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  279.2  2.0   0  0.00  100.  1013.   3 NAD-SFC NoSubs
10  1  2   2  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  278.2  2.0   0  0.00  100.  1013.   3 NAD-SFC NoSubs
10  1  2   2  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.61  0.00    0.0  15.0  278.2  2.0   0  0.00  100.  1014.   3 NAD-SFC NoSubs
10  1  2   2  9   16.1  0.070  0.291  0.011   55.  44.      -1.9  0.0950  0.72  0.34  0.50  350.0  15.0  279.6  2.0   0  0.00  100.  1014.   3 NAD-SFC NoSubs
10  1  2   2 10   54.7  0.082  0.635  0.008  169.  56.      -1.0  0.0950  0.72  0.25  0.50  331.0  15.0  280.6  2.0   0  0.00  100.  1014.   2 NAD-SFC NoSubs
10  1  2   2 11   83.7  0.087  0.906  0.008  322.  61.      -1.0  0.0950  0.72  0.22  0.50  335.0  15.0  281.2  2.0   0  0.00  100.  1014.   2 NAD-SFC NoSubs
10  1  2   2 12   98.8  0.089  1.079  0.008  460.  64.      -1.0  0.0950  0.72  0.21  0.50  331.0  15.0  282.0  2.0   0  0.00  100.  1013.   2 NAD-SFC NoSubs
10  1  2   2 13   99.3  0.076  1.166  0.009  576.  50.      -1.0  0.0420  0.72  0.21  0.50  299.0  15.0  282.8  2.0   0  0.00   97.  1012.   2 NAD-SFC NoSubs
10  1  2   2 14   85.2  0.115  1.159  0.009  660.  94.      -1.6  0.0420  0.72  0.22  1.00  297.0  15.0  283.2  2.0   0  0.00   97.  1011.   2 NAD-SFC NoSubs
10  1  2   2 15   57.0  0.161  1.032  0.009  696. 156.      -6.7  0.0800  0.72  0.25  1.50  310.0  15.0  283.4  2.0   0  0.00   98.  1011.   2 NAD-SFC NoSubs
10  1  2   2 16   17.2  0.149  0.697  0.009  707. 138.     -17.2  0.0950  0.72  0.34  1.50  354.0  15.0  283.2  2.0   0  0.00  100.  1010.   2 NAD-SFC NoSubs
10  1  2   2 17   -5.1  0.107 -9.000 -9.000 -999.  85.      21.9  0.0960  0.72  0.59  1.50   28.0  15.0  283.0  2.0   0  0.00  100.  1010.   2 NAD-SFC NoSubs
10  1  2   2 18   -5.0  0.102 -9.000 -9.000 -999.  78.      19.0  0.0650  0.72  1.00  1.50   51.0  15.0  282.9  2.0   0  0.00  100.  1010.   2 NAD-SFC NoSubs
10  1  2   2 19   -2.7  0.083 -9.000 -9.000 -999.  57.      19.0  0.0650  0.72  1.00  1.00   42.0  15.0  282.8  2.0   0  0.00  100.  1010.   2 NAD-SFC NoSubs
10  1  2   2 20   -3.0  0.087 -9.000 -9.000 -999.  61.      20.0  0.0950  0.72  1.00  1.00  355.0  15.0  282.8  2.0   0  0.00  100.  1010.   2 NAD-SFC NoSubs
10  1  2   2 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.6  2.0   0  0.00  100.  1010.   2 NAD-SFC NoSubs
10  1  2   2 22   -3.0  0.087 -9.000 -9.000 -999.  61.      20.0  0.0950  0.72  1.00  1.00  355.0  15.0  282.0  2.0   0  0.00  100.  1011.   2 NAD-SFC NoSubs
10  1  2   2 23   -1.3  0.075 -9.000 -9.000 -999.  49.      29.7  0.0950  0.72  1.00  0.50  337.0  15.0  281.6  2.0   0  0.00  100.  1011.   2 NAD-SFC NoSubs
10  1  2   2 24   -1.1  0.069 -9.000 -9.000 -999.  44.      27.6  0.0420  0.72  1.00  0.50  298.0  15.0  281.4  2.0   0  0.00  100.  1011.   2 NAD-SFC NoSubs
10  1  3   3  1   -1.2  0.074 -9.000 -9.000 -999.  48.      29.3  0.0800  0.72  1.00  0.50  310.0  15.0  281.2  2.0   0  0.00  100.  1011.   2 NAD-SFC NoSubs
10  1  3   3  2   -1.3  0.075 -9.000 -9.000 -999.  49.      29.8  0.0950  0.72  1.00  0.50  336.0  15.0  281.1  2.0   0  0.00  100.  1011.   2 NAD-SFC NoSubs
10  1  3   3  3   -3.0  0.087 -9.000 -9.000 -999.  62.      20.0  0.0950  0.72  1.00  1.00  354.0  15.0  281.0  2.0   0  0.00  100.  1011.   2 NAD-SFC NoSubs
10  1  3   3  4   -2.8  0.085 -9.000 -9.000 -999.  60.      19.5  0.0800  0.72  1.00  1.00  320.0  15.0  281.0  2.0   0  0.00  100.  1011.   2 NAD-SFC NoSubs
10  1  3   3  5   -2.8  0.085 -9.000 -9.000 -999.  60.      19.5  0.0800  0.72  1.00  1.00  317.0  15.0  281.0  2.0   0  0.00  100.  1011.   2 NAD-SFC NoSubs
10  1  3   3  6   -3.0  0.087 -9.000 -9.000 -999.  62.      20.0  0.0950  0.72  1.00  1.00  349.0  15.0  281.0  2.0   0  0.00  100.  1011.   2 NAD-SFC NoSubs
10  1  3   3  7   -1.2  0.074 -9.000 -9.000 -999.  48.      29.3  0.0800  0.72  1.00  0.50  316.0  15.0  280.9  2.0   0  0.00  100.  1011.   2 NAD-SFC NoSubs
10  1  3   3  8   -2.7  0.084 -9.000 -9.000 -999.  59.      19.7  0.0950  0.72  0.61  1.00  339.0  15.0  280.8  2.0   0  0.00  100.  1011.   2 NAD-SFC NoSubs
10  1  3   3  9   14.7  0.128  0.439  0.019  208. 110.     -12.8  0.0420  0.72  0.34  1.50  298.0  15.0  280.8  2.0   0  0.00  100.  1011.   2 NAD-SFC NoSubs
10  1  3   3 10   54.9  0.161  0.704  0.018  229. 155.      -6.8  0.0800  0.72  0.25  1.50  304.0  15.0  280.9  2.0   0  0.00  100.  1011.   2 NAD-SFC NoSubs
10  1  3   3 11   83.9  0.133  0.844  0.016  259. 117.      -2.5  0.0950  0.72  0.22  1.00  352.0  15.0  281.2  2.0   0  0.00  100.  1011.   2 NAD-SFC NoSubs
10  1  3   3 12   99.1  0.089  0.927  0.013  289.  64.      -1.0  0.0950  0.72  0.21  0.50  338.0  15.0  281.9  2.0   0  0.00   96.  1010.   2 NAD-SFC NoSubs
10  1  3   3 13   99.9  0.089  0.959  0.011  318.  64.      -1.0  0.0950  0.72  0.21  0.50  331.0  15.0  283.5  2.0   0  0.00   87.  1010.   2 NAD-SFC NoSubs
10  1  3   3 14   86.3 -9.000 -9.000 -9.000  341. -999. -99999.0  0.0471  0.72  0.22  0.00    0.0  15.0  285.8  2.0   0  0.00   73.  1009.   2 NAD-SFC NoSubs
10  1  3   3 15   58.2 -9.000 -9.000 -9.000  356. -999. -99999.0  0.0471  0.72  0.25  0.00    0.0  15.0  286.0  2.0   0  0.00   73.  1009.   2 NAD-SFC NoSubs
10  1  3   3 16   18.5  0.129  0.570  0.008  360.  112.     -10.5  0.0400  0.72  0.33  1.50   80.0  15.0  285.8  2.0   0  0.00   76.  1009.   2 NAD-SFC NoSubs
10  1  3   3 17  -17.1  0.194 -9.000 -9.000 -999.  205.     38.4  0.0400  0.72  0.59  3.10   69.0  15.0  285.2  2.0   0  0.00   79.  1008.   2 NAD-SFC NoSubs
10  1  3   3 18  -17.3  0.185 -9.000 -9.000 -999.  190.     32.7  0.0310  0.72  1.00  3.10  101.0  15.0  285.0  2.0   0  0.00   81.  1009.   2 NAD-SFC NoSubs
10  1  3   3 19   -2.3  0.076 -9.000 -9.000 -999.   58.     17.4  0.0310  0.72  1.00  1.00  107.0  15.0  285.2  2.0   0  0.00   78.  1008.   2 NAD-SFC NoSubs
10  1  3   3 20  -10.1  0.145 -9.000 -9.000 -999.  132.     27.0  0.0800  0.72  1.00  2.10  308.0  15.0  285.1  2.0   0  0.00   77.  1008.   2 NAD-SFC NoSubs
10  1  3   3 21  -28.3  0.258 -9.000 -9.000 -999.  315.     54.9  0.0800  0.72  1.00  3.60  317.0  15.0  284.5  2.0   0  0.00   81.  1009.   2 NAD-SFC NoSubs
10  1  3   3 22  -29.4  0.268 -9.000 -9.000 -999.  332.     58.8  0.0950  0.72  1.00  3.60  339.0  15.0  284.1  2.0   0  0.00   85.  1010.   2 NAD-SFC NoSubs
10  1  3   3 23  -33.7  0.307 -9.000 -9.000 -999.  409.     77.6  0.0960  0.72  1.00  4.10   21.0  15.0  284.0  2.0   0  0.00   88.  1010.   2 NAD-SFC NoSubs
10  1  3   3 24  -29.4  0.268 -9.000 -9.000 -999.  334.     59.1  0.0960  0.72  1.00  3.60    7.0  15.0  284.1  2.0   0  0.00   89.  1011.   2 NAD-SFC NoSubs
10  1  4   4  1  -16.5  0.189 -9.000 -9.000 -999.  200.     37.0  0.0950  0.72  1.00  2.60  346.0  15.0  284.2  2.0   0  0.00   87.  1011.   3 NAD-SFC NoSubs
10  1  4   4  2   -5.4  0.108 -9.000 -9.000 -999.   88.     21.0  0.0960  0.72  1.00  1.50   16.0  15.0  284.4  2.0   0  0.00   85.  1011.   3 NAD-SFC NoSubs
10  1  4   4  3   -3.7  0.086 -9.000 -9.000 -999.   61.     15.6  0.0220  0.72  1.00  1.50  238.0  15.0  284.5  2.0   0  0.00   83.  1011.   4 NAD-SFC NoSubs
10  1  4   4  4  -10.5  0.142 -9.000 -9.000 -999.  129.     24.8  0.0200  0.72  1.00  2.60  259.0  15.0  284.6  2.0   0  0.00   80.  1011.   4 NAD-SFC NoSubs
10  1  4   4  5  -12.7  0.161 -9.000 -9.000 -999.  155.     29.9  0.0420  0.72  1.00  2.60  291.0  15.0  284.6  2.0   0  0.00   78.  1011.   4 NAD-SFC NoSubs
10  1  4   4  6  -16.2  0.189 -9.000 -9.000 -999.  198.     37.8  0.0950  0.72  1.00  2.60  332.0  15.0  284.4  2.0   0  0.00   77.  1011.   4 NAD-SFC NoSubs
10  1  4   4  7  -16.2  0.189 -9.000 -9.000 -999.  198.     37.8  0.0950  0.72  1.00  2.60  346.0  15.0  284.1  2.0   0  0.00   77.  1011.   4 NAD-SFC NoSubs
10  1  4   4  8   -9.5  0.145 -9.000 -9.000 -999.  133.     29.2  0.0800  0.72  0.62  2.10  328.0  15.0  283.9  2.0   0  0.00   76.  1011.   3 NAD-SFC NoSubs
10  1  4   4  9   17.0  0.144  0.379  0.010  115.  131.    -15.9  0.0800  0.72  0.34  1.50  306.0  15.0  283.9  2.0   0  0.00   74.  1011.   3 NAD-SFC NoSubs
10  1  4   4 10   57.4  0.241  0.694  0.007  210.  284.    -22.0  0.0800  0.72  0.25  2.60  317.0  15.0  286.0  2.0   0  0.00   58.  1011.   3 NAD-SFC NoSubs
10  1  4   4 11   86.7  0.169  0.893  0.007  296.  168.     -5.0  0.0800  0.72  0.22  1.50  317.0  15.0  287.8  2.0   0  0.00   53.  1010.   3 NAD-SFC NoSubs
10  1  4   4 12  102.2  0.172  1.020  0.005  374.  171.     -4.5  0.0800  0.72  0.21  1.50  323.0  15.0  289.2  2.0   0  0.00   50.  1010.   3 NAD-SFC NoSubs
10  1  4   4 13  103.2  0.178  1.170  0.005  558.  180.     -4.9  0.0950  0.72  0.21  1.50  335.0  15.0  290.4  2.0   0  0.00   48.  1009.   3 NAD-SFC NoSubs
10  1  4   4 14   89.4  0.130  1.202  0.005  699.  113.     -2.2  0.0800  0.72  0.22  1.00  322.0  15.0  291.0  2.0   0  0.00   47.  1009.   3 NAD-SFC NoSubs
10  1  4   4 15   61.7  0.163  1.100  0.005  776.  158.     -6.3  0.0800  0.72  0.25  1.50  321.0  15.0  291.2  2.0   0  0.00   46.  1009.   3 NAD-SFC NoSubs
10  1  4   4 16   22.4  0.152  0.793  0.005  802.  142.    -14.1  0.0950  0.72  0.33  1.50  330.0  15.0  291.2  2.0   0  0.00   49.  1009.   3 NAD-SFC NoSubs
10  1  4   4 17   -2.4  0.080 -9.000 -9.000 -999.   56.     19.4  0.0950  0.72  0.58  1.00  353.0  15.0  290.5  2.0   0  0.00   53.  1009.   3 NAD-SFC NoSubs
10  1  4   4 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  289.4  2.0   0  0.00   58.  1009.   3 NAD-SFC NoSubs
10  1  4   4 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  288.2  2.0   0  0.00   64.  1009.   3 NAD-SFC NoSubs
10  1  4   4 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  287.1  2.0   0  0.00   69.  1009.   3 NAD-SFC NoSubs
10  1  4   4 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  286.2  2.0   0  0.00   74.  1009.   3 NAD-SFC NoSubs
10  1  4   4 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  285.4  2.0   0  0.00   77.  1010.   3 NAD-SFC NoSubs
10  1  4   4 23   -1.2  0.073 -9.000 -9.000 -999.   47.     28.9  0.0800  0.72  1.00  0.50  302.0  15.0  284.8  2.0   0  0.00   80.  1010.   3 NAD-SFC NoSubs
10  1  4   4 24   -2.4  0.078 -9.000 -9.000 -999.   52.     17.9  0.0420  0.72  1.00  1.00  298.0  15.0  284.2  2.0   0  0.00   81.  1010.   3 NAD-SFC NoSubs
10  1  5   5  1   -4.4  0.095 -9.000 -9.000 -999.   70.     17.5  0.0420  0.72  1.00  1.50  295.0  15.0  284.0  2.0   0  0.00   82.  1010.   3 NAD-SFC NoSubs
10  1  5   5  2   -4.4  0.095 -9.000 -9.000 -999.   70.     17.5  0.0420  0.72  1.00  1.50  294.0  15.0  283.6  2.0   0  0.00   82.  1010.   3 NAD-SFC NoSubs
10  1  5   5  3   -8.3  0.128 -9.000 -9.000 -999.  110.     22.9  0.0420  0.72  1.00  2.10  287.0  15.0  283.2  2.0   0  0.00   82.  1010.   3 NAD-SFC NoSubs
10  1  5   5  4   -8.3  0.128 -9.000 -9.000 -999.  110.     22.8  0.0420  0.72  1.00  2.10  290.0  15.0  282.9  2.0   0  0.00   82.  1010.   3 NAD-SFC NoSubs
10  1  5   5  5  -12.9  0.161 -9.000 -9.000 -999.  155.     29.1  0.0420  0.72  1.00  2.60  292.0  15.0  282.6  2.0   0  0.00   81.  1011.   3 NAD-SFC NoSubs
10  1  5   5  6  -12.9  0.161 -9.000 -9.000 -999.  155.     29.1  0.0420  0.72  1.00  2.60  285.0  15.0  282.2  2.0   0  0.00   80.  1011.   3 NAD-SFC NoSubs
10  1  5   5  7  -12.9  0.161 -9.000 -9.000 -999.  155.     29.1  0.0420  0.72  1.00  2.60  282.0  15.0  281.9  2.0   0  0.00   78.  1011.   3 NAD-SFC NoSubs
10  1  5   5  8  -12.3  0.162 -9.000 -9.000 -999.  156.     31.0  0.0420  0.72  0.62  2.60  285.0  15.0  281.6  2.0   0  0.00   76.  1011.   3 NAD-SFC NoSubs
10  1  5   5  9   16.6  0.199  0.331  0.009   79.  213.    -42.6  0.0420  0.72  0.34  2.60  299.0  15.0  282.2  2.0   0  0.00   70.  1012.   3 NAD-SFC NoSubs
10  1  5   5 10   57.0  0.205  0.651  0.009  174.  223.    -13.7  0.0800  0.72  0.25  2.10  308.0  15.0  283.8  2.0   0  0.00   59.  1012.   3 NAD-SFC NoSubs
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10  1  5   5 11   86.3  0.169  0.879  0.008  284.  167.    -5.0  0.0800  0.72  0.22  1.50  308.0  15.0  285.1  2.0  0  0.00  55.  1012.  3 NAD-SFC NoSubs
10  1  5   5 12  101.8  0.172  1.027  0.007  384.  171.    -4.5  0.0800  0.72  0.21  1.50  309.0  15.0  286.5  2.0  0  0.00  50.  1011.  3 NAD-SFC NoSubs
10  1  5   5 13  102.6  0.195  1.138  0.006  517.  206.    -6.5  0.0420  0.72  0.21  2.10  298.0  15.0  287.0  2.0  0  0.00  48.  1010.  3 NAD-SFC NoSubs
10  1  5   5 14   88.7  0.250  1.147  0.006  612.  299.   -15.8  0.0800  0.72  0.22  2.60  300.0  15.0  286.9  2.0  0  0.00  50.  1010.  3 NAD-SFC NoSubs
10  1  5   5 15   61.0  0.206  1.044  0.006  672.  226.   -13.0  0.0800  0.72  0.25  2.10  315.0  15.0  287.0  2.0  0  0.00  50.  1009.  3 NAD-SFC NoSubs
10  1  5   5 16   20.1  0.098  0.728  0.006  690.   80.    -4.2  0.0420  0.72  0.33  1.00  298.0  15.0  286.8  2.0  0  0.00  47.  1009.  2 NAD-SFC NoSubs
10  1  5   5 17    9.6 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.58  0.00    0.0  15.0  286.0  2.0  0  0.00  50.  1009.  2 NAD-SFC NoSubs
10  1  5   5 18   -1.0  0.065 -9.000 -9.000 -999.  40.    26.0  0.0220  0.72  1.00  0.50  186.0  15.0  285.1  2.0  0  0.00  55.  1009.  2 NAD-SFC NoSubs
10  1  5   5 19   -1.0  0.065 -9.000 -9.000 -999.  40.    26.0  0.0220  0.72  1.00  0.50  207.0  15.0  284.1  2.0  0  0.00  60.  1010.  2 NAD-SFC NoSubs
10  1  5   5 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  283.2  2.0  0  0.00  64.  1010.  2 NAD-SFC NoSubs
10  1  5   5 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.5  2.0  0  0.00  68.  1010.  2 NAD-SFC NoSubs
10  1  5   5 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  281.8  2.0  0  0.00  71.  1010.  2 NAD-SFC NoSubs
10  1  5   5 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  281.2  2.0  0  0.00  74.  1010.  2 NAD-SFC NoSubs
10  1  5   5 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  280.8  2.0  0  0.00  76.  1010.  2 NAD-SFC NoSubs
10  1  6   6  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  280.2  2.0  0  0.00  77.  1010.  2 NAD-SFC NoSubs
10  1  6   6  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  279.9  2.0  0  0.00  78.  1010.  2 NAD-SFC NoSubs
10  1  6   6  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  279.8  2.0  0  0.00  78.  1010.  2 NAD-SFC NoSubs
10  1  6   6  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  279.4  2.0  0  0.00  78.  1010.  2 NAD-SFC NoSubs
10  1  6   6  5   -1.0  0.065 -9.000 -9.000 -999.  40.    26.0  0.0200  0.72  1.00  0.50  262.0  15.0  279.2  2.0  0  0.00  78.  1011.  2 NAD-SFC NoSubs
10  1  6   6  6   -1.0  0.065 -9.000 -9.000 -999.  40.    26.0  0.0200  0.72  1.00  0.50  256.0  15.0  279.2  2.0  0  0.00  78.  1011.  2 NAD-SFC NoSubs
10  1  6   6  7   -2.2  0.074 -9.000 -9.000 -999.  48.    16.6  0.0200  0.72  1.00  1.00  258.0  15.0  279.1  2.0  0  0.00  78.  1011.  2 NAD-SFC NoSubs
10  1  6   6  8   -2.0  0.071 -9.000 -9.000 -999.  46.    16.2  0.0200  0.72  0.62  1.00  252.0  15.0  279.1  2.0  0  0.00  79.  1012.  2 NAD-SFC NoSubs
10  1  6   6  9   14.6  0.085  0.275  0.014   51.   59.    -3.8  0.0200  0.72  0.34  1.00  248.0  15.0  279.8  2.0  0  0.00  78.  1012.  2 NAD-SFC NoSubs
10  1  6   6 10   55.5  0.144  0.612  0.011  149.  132.    -4.9  0.0420  0.72  0.25  1.50  278.0  15.0  281.8  2.0  0  0.00  71.  1012.  2 NAD-SFC NoSubs
10  1  6   6 11   85.2  0.169  0.874  0.011  283.  166.    -5.1  0.0800  0.72  0.22  1.50  305.0  15.0  283.2  2.0  0  0.00  66.  1012.  2 NAD-SFC NoSubs
10  1  6   6 12  100.8  0.132  1.040  0.011  403.  115.    -2.0  0.0800  0.72  0.21  1.00  326.0  15.0  284.2  2.0  0  0.00  64.  1011.  2 NAD-SFC NoSubs
10  1  6   6 13  101.8  0.132  1.112  0.010  486.  115.    -2.0  0.0800  0.72  0.21  1.00  321.0  15.0  285.1  2.0  0  0.00  61.  1010.  2 NAD-SFC NoSubs
10  1  6   6 14   88.0  0.130  1.103  0.010  549.  112.    -2.2  0.0800  0.72  0.22  1.00  315.0  15.0  285.6  2.0  0  0.00  59.  1010.  2 NAD-SFC NoSubs
10  1  6   6 15   60.1  0.124  0.994  0.010  588.  104.    -2.8  0.0800  0.72  0.25  1.00  312.0  15.0  285.8  2.0  0  0.00  62.  1009.  2 NAD-SFC NoSubs
10  1  6   6 16   20.4  0.062  0.699  0.010  600.   38.    -1.1  0.0420  0.72  0.33  0.50  292.0  15.0  285.5  2.0  0  0.00  64.  1009.  2 NAD-SFC NoSubs
10  1  6   6 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.57  0.00    0.0  15.0  285.0  2.0  0  0.00  67.  1008.  2 NAD-SFC NoSubs
10  1  6   6 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  284.1  2.0  0  0.00  71.  1009.  2 NAD-SFC NoSubs
10  1  6   6 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  283.2  2.0  0  0.00  75.  1009.  2 NAD-SFC NoSubs
10  1  6   6 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.5  2.0  0  0.00  79.  1009.  2 NAD-SFC NoSubs
10  1  6   6 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  281.9  2.0  0  0.00  82.  1009.  2 NAD-SFC NoSubs
10  1  6   6 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  281.8  2.0  0  0.00  84.  1010.  2 NAD-SFC NoSubs
10  1  6   6 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  281.5  2.0  0  0.00  85.  1010.  2 NAD-SFC NoSubs
10  1  6   6 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  281.1  2.0  0  0.00  87.  1010.  2 NAD-SFC NoSubs
10  1  7   7  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  280.6  2.0  0  0.00  89.  1010.  2 NAD-SFC NoSubs
10  1  7   7  2   -1.0  0.066 -9.000 -9.000 -999.  41.    26.3  0.0240  0.72  1.00  0.50  163.0  15.0  280.2  2.0  0  0.00  90.  1010.  2 NAD-SFC NoSubs
10  1  7   7  3   -1.0  0.066 -9.000 -9.000 -999.  41.    26.3  0.0240  0.72  1.00  0.50  170.0  15.0  280.1  2.0  0  0.00  91.  1010.  2 NAD-SFC NoSubs
10  1  7   7  4   -1.0  0.066 -9.000 -9.000 -999.  41.    26.4  0.0240  0.72  1.00  0.50  165.0  15.0  279.8  2.0  0  0.00  92.  1010.  2 NAD-SFC NoSubs
10  1  7   7  5   -1.0  0.066 -9.000 -9.000 -999.  41.    26.4  0.0240  0.72  1.00  0.50  153.0  15.0  279.6  2.0  0  0.00  94.  1010.  2 NAD-SFC NoSubs
10  1  7   7  6   -1.0  0.067 -9.000 -9.000 -999.  42.    26.7  0.0280  0.72  1.00  0.50  146.0  15.0  279.4  2.0  0  0.00  95.  1010.  2 NAD-SFC NoSubs
10  1  7   7  7   -1.0  0.067 -9.000 -9.000 -999.  42.    26.7  0.0280  0.72  1.00  0.50  139.0  15.0  279.2  2.0  0  0.00  97.  1010.  2 NAD-SFC NoSubs
10  1  7   7  8   -0.9  0.064 -9.000 -9.000 -999.  39.    25.8  0.0280  0.72  0.62  0.50  134.0  15.0  279.0  2.0  0  0.00  98.  1010.  2 NAD-SFC NoSubs
10  1  7   7  9   14.9 -9.000 -9.000 -9.000   52. -999. -99999.0  0.0471  0.72  0.34  0.00    0.0  15.0  280.6  2.0  0  0.00  91.  1010.  2 NAD-SFC NoSubs
10  1  7   7 10   56.2  0.071  0.632  0.011  161.  45.    -1.0  0.0420  0.72  0.25  0.50  284.0  15.0  283.8  2.0  0  0.00  78.  1010.  2 NAD-SFC NoSubs
10  1  7   7 11   86.1  0.075  0.906  0.011  311.  49.    -1.0  0.0420  0.72  0.22  0.50  293.0  15.0  285.6  2.0  0  0.00  71.  1009.  2 NAD-SFC NoSubs
10  1  7   7 12  102.0  0.132  1.066  0.011  428.  115.    -2.0  0.0800  0.72  0.21  1.00  302.0  15.0  287.2  2.0  0  0.00  63.  1009.  2 NAD-SFC NoSubs
10  1  7   7 13  103.2  0.132  1.133  0.011  507.  115.    -2.0  0.0800  0.72  0.21  1.00  311.0  15.0  288.2  2.0  0  0.00  60.  1008.  2 NAD-SFC NoSubs
10  1  7   7 14   89.6  0.130  1.121  0.010  566.  113.    -2.2  0.0800  0.72  0.22  1.00  316.0  15.0  288.8  2.0  0  0.00  59.  1008.  2 NAD-SFC NoSubs
10  1  7   7 15   61.8  0.163  1.013  0.010  604.  158.    -6.3  0.0800  0.72  0.24  1.50  327.0  15.0  289.0  2.0  0  0.00  59.  1007.  2 NAD-SFC NoSubs
10  1  7   7 16   22.2  0.152  0.725  0.009  617.  142.   -14.2  0.0950  0.72  0.33  1.50  355.0  15.0  289.0  2.0  0  0.00  62.  1007.  2 NAD-SFC NoSubs
10  1  7   7 17   -1.0  0.067 -9.000 -9.000 -999.  45.    27.2  0.0960  0.72  0.56  0.50   14.0  15.0  288.2  2.0  0  0.00  66.  1007.  2 NAD-SFC NoSubs
10  1  7   7 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  287.2  2.0  0  0.00  71.  1008.  2 NAD-SFC NoSubs
10  1  7   7 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  286.1  2.0  0  0.00  77.  1009.  2 NAD-SFC NoSubs
10  1  7   7 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  285.1  2.0  0  0.00  82.  1009.  2 NAD-SFC NoSubs
10  1  7   7 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  284.2  2.0  0  0.00  86.  1009.  2 NAD-SFC NoSubs
10  1  7   7 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  283.6  2.0  0  0.00  90.  1010.  3 NAD-SFC NoSubs
10  1  7   7 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  283.1  2.0  0  0.00  92.  1010.  3 NAD-SFC NoSubs
10  1  7   7 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.6  2.0  0  0.00  94.  1010.  3 NAD-SFC NoSubs
10  1  8   8  1   -0.9  0.064 -9.000 -9.000 -999.  39.    25.6  0.0200  0.72  1.00  0.50  259.0  15.0  282.5  2.0  0  0.00  93.  1010.  3 NAD-SFC NoSubs
10  1  8   8  2   -2.1  0.073 -9.000 -9.000 -999.  47.    16.5  0.0200  0.72  1.00  1.00  261.0  15.0  282.6  2.0  0  0.00  91.  1011.  3 NAD-SFC NoSubs
10  1  8   8  3   -2.1  0.073 -9.000 -9.000 -999.  47.    16.5  0.0200  0.72  1.00  1.00  258.0  15.0  282.8  2.0  0  0.00  89.  1011.  3 NAD-SFC NoSubs
10  1  8   8  4   -2.1  0.073 -9.000 -9.000 -999.  47.    16.5  0.0200  0.72  1.00  1.00  255.0  15.0  282.8  2.0  0  0.00  87.  1011.  3 NAD-SFC NoSubs
10  1  8   8  5   -0.9  0.065 -9.000 -9.000 -999.  39.    25.8  0.0220  0.72  1.00  0.50  217.0  15.0  282.5  2.0  0  0.00  87.  1010.  3 NAD-SFC NoSubs
10  1  8   8  6   -0.9  0.065 -9.000 -9.000 -999.  39.    25.8  0.0220  0.72  1.00  0.50  205.0  15.0  282.4  2.0  0  0.00  87.  1011.  3 NAD-SFC NoSubs
10  1  8   8  7   -0.9  0.065 -9.000 -9.000 -999.  39.    25.8  0.0220  0.72  1.00  0.50  235.0  15.0  282.4  2.0  0  0.00  87.  1011.  3 NAD-SFC NoSubs
10  1  8   8  8   -0.9  0.065 -9.000 -9.000 -999.  40.    26.3  0.0420  0.72  0.61  0.50  281.0  15.0  282.4  2.0  0  0.00  86.  1011.  3 NAD-SFC NoSubs
10  1  8   8  9   17.1  0.071  0.319  0.011   68.  45.    -1.9  0.0950  0.72  0.34  0.50  350.0  15.0  282.6  2.0  0  0.00  85.  1012.  3 NAD-SFC NoSubs
10  1  8   8 10   57.6  0.077  0.650  0.008  172.  51.    -1.0  0.0650  0.72  0.25  0.50   40.0  15.0  283.6  2.0  0  0.00  81.  1012.  3 NAD-SFC NoSubs
10  1  8   8 11   86.3  0.134  0.919  0.008  325.  117.    -2.5  0.0950  0.72  0.22  1.00  339.0  15.0  285.0  2.0  0  0.00  71.  1012.  2 NAD-SFC NoSubs
10  1  8   8 12  102.1  0.224  1.092  0.008  461.  254.    -9.9  0.0950  0.72  0.21  2.10  337.0  15.0  285.9  2.0  0  0.00  67.  1012.  2 NAD-SFC NoSubs
10  1  8   8 13  103.3  0.224  1.174  0.008  566.  254.    -9.8  0.0950  0.72  0.21  2.10  349.0  15.0  286.8  2.0  0  0.00  66.  1012.  2 NAD-SFC NoSubs
10  1  8   8 14   89.8  0.221  1.170  0.008  643.  249.   -10.8  0.0950  0.72  0.21  2.10  344.0  15.0  287.2  2.0  0  0.00  64.  1012.  2 NAD-SFC NoSubs
10  1  8   8 15   62.0  0.213  1.059  0.008  691.  236.   -14.1  0.0950  0.72  0.24  2.10  342.0  15.0  287.2  2.0  0  0.00  67.  1011.  2 NAD-SFC NoSubs
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10  1  8   8 16   22.3  0.196  0.759  0.008  706.  208.    -30.4  0.0950  0.72  0.32  2.10  359.0  15.0  287.0  2.0  0  0.00  69.  1011.  2 NAD-SFC NoSubs
10  1  8   8 17   -9.5  0.152 -9.000 -9.000 -999.  142.     33.1  0.0960  0.72  0.56  2.10    8.0  15.0  286.5  2.0  0  0.00  71.  1011.  2 NAD-SFC NoSubs
10  1  8   8 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  285.9  2.0  0  0.00  74.  1011.  2 NAD-SFC NoSubs
10  1  8   8 19   -1.3  0.075 -9.000 -9.000 -999.   49.     29.6  0.0960  0.72  1.00  0.50    3.0  15.0  285.4  2.0  0  0.00  76.  1012.  2 NAD-SFC NoSubs
10  1  8   8 20   -1.0  0.068 -9.000 -9.000 -999.   42.     27.1  0.0400  0.72  1.00  0.50   72.0  15.0  285.1  2.0  0  0.00  78.  1012.  3 NAD-SFC NoSubs
10  1  8   8 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  285.0  2.0  0  0.00  79.  1012.  3 NAD-SFC NoSubs
10  1  8   8 22   -1.0  0.068 -9.000 -9.000 -999.   43.     27.3  0.0420  0.72  1.00  0.50  288.0  15.0  284.6  2.0  0  0.00  81.  1012.  3 NAD-SFC NoSubs
10  1  8   8 23   -1.2  0.073 -9.000 -9.000 -999.   47.     28.9  0.0800  0.72  1.00  0.50  310.0  15.0  284.1  2.0  0  0.00  83.  1013.  3 NAD-SFC NoSubs
10  1  8   8 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  283.6  2.0  0  0.00  85.  1013.  3 NAD-SFC NoSubs
10  1  9   9  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  283.1  2.0  0  0.00  87.  1013.  3 NAD-SFC NoSubs
10  1  9   9  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.8  2.0  0  0.00  89.  1013.  3 NAD-SFC NoSubs
10  1  9   9  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.2  2.0  0  0.00  91.  1013.  3 NAD-SFC NoSubs
10  1  9   9  4   -1.2  0.074 -9.000 -9.000 -999.   48.     29.5  0.0950  0.72  1.00  0.50  334.0  15.0  282.1  2.0  0  0.00  92.  1013.  3 NAD-SFC NoSubs
10  1  9   9  5   -2.8  0.084 -9.000 -9.000 -999.   59.     19.4  0.0800  0.72  1.00  1.00  306.0  15.0  282.0  2.0  0  0.00  92.  1013.  3 NAD-SFC NoSubs
10  1  9   9  6   -2.4  0.078 -9.000 -9.000 -999.   53.     17.9  0.0420  0.72  1.00  1.00  299.0  15.0  281.9  2.0  0  0.00  92.  1013.  3 NAD-SFC NoSubs
10  1  9   9  7   -1.2  0.073 -9.000 -9.000 -999.   47.     29.0  0.0800  0.72  1.00  0.50  313.0  15.0  281.8  2.0  0  0.00  92.  1013.  3 NAD-SFC NoSubs
10  1  9   9  8   -1.1  0.069 -9.000 -9.000 -999.   44.     27.9  0.0800  0.72  0.61  0.50  304.0  15.0  281.8  2.0  0  0.00  91.  1014.  3 NAD-SFC NoSubs
10  1  9   9  9   15.5 -9.000 -9.000 -9.000   58. -999. -99999.0  0.0471  0.72  0.34  0.00    0.0  15.0  282.2  2.0  0  0.00  88.  1014.  2 NAD-SFC NoSubs
10  1  9   9 10   56.6 -9.000 -9.000 -9.000  157. -999. -99999.0  0.0471  0.72  0.25  0.00    0.0  15.0  283.0  2.0  0  0.00  83.  1014.  2 NAD-SFC NoSubs
10  1  9   9 11   86.6  0.169  0.865  0.008  270.  166.     -5.0  0.0800  0.72  0.22  1.50  311.0  15.0  284.5  2.0  0  0.00  72.  1015.  2 NAD-SFC NoSubs
10  1  9   9 12  102.4  0.172  1.018  0.007  373.  171.     -4.5  0.0800  0.72  0.21  1.50  327.0  15.0  284.9  2.0  0  0.00  71.  1014.  2 NAD-SFC NoSubs
10  1  9   9 13  104.3  0.178  1.131  0.007  502.  180.     -4.9  0.0960  0.72  0.21  1.50    4.0  15.0  285.0  2.0  0  0.00  73.  1014.  3 NAD-SFC NoSubs
10  1  9   9 14   90.8  0.175  1.147  0.007  601.  176.     -5.4  0.0960  0.72  0.21  1.50    5.0  15.0  285.0  2.0  0  0.00  76.  1014.  3 NAD-SFC NoSubs
10  1  9   9 15   63.5  0.072  1.051  0.007  661.   53.     -1.0  0.0420  0.72  0.24  0.50  270.0  15.0  284.8  2.0  0  0.00  81.  1013.  4 NAD-SFC NoSubs
10  1  9   9 16   25.0  0.057  0.778  0.007  681.   33.     -1.0  0.0220  0.72  0.32  0.50  233.0  15.0  284.6  2.0  0  0.00  83.  1013.  4 NAD-SFC NoSubs
10  1  9   9 17   -0.6  0.053 -9.000 -9.000 -999.   29.     21.9  0.0200  0.72  0.55  0.50  241.0  15.0  284.4  2.0  0  0.00  86.  1013.  5 NAD-SFC NoSubs
10  1  9   9 18   -1.0  0.065 -9.000 -9.000 -999.   40.     26.3  0.0400  0.72  1.00  0.50   64.0  15.0  284.4  2.0  0  0.00  87.  1013.  5 NAD-SFC NoSubs
10  1  9   9 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  284.2  2.0  0  0.00  88.  1013.  6 NAD-SFC NoSubs
10  1  9   9 20   -1.0  0.067 -9.000 -9.000 -999.   41.     26.9  0.0650  0.72  1.00  0.50   51.0  15.0  284.1  2.0  0  0.00  88.  1013.  6 NAD-SFC NoSubs
10  1  9   9 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  283.8  2.0  0  0.00  90.  1013.  5 NAD-SFC NoSubs
10  1  9   9 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  283.5  2.0  0  0.00  91.  1012.  5 NAD-SFC NoSubs
10  1  9   9 23   -2.7  0.084 -9.000 -9.000 -999.   58.     19.7  0.0960  0.72  1.00  1.00   14.0  15.0  283.2  2.0  0  0.00  92.  1012.  5 NAD-SFC NoSubs
10  1  9   9 24  -23.5  0.229 -9.000 -9.000 -999.  264.     46.4  0.0960  0.72  1.00  3.10   25.0  15.0  283.0  2.0  0  0.00  94.  1012.  4 NAD-SFC NoSubs
10  1 10  10  1  -23.9  0.229 -9.000 -9.000 -999.  263.     45.4  0.0960  0.72  1.00  3.10   21.0  15.0  282.8  2.0  0  0.00  96.  1012.  3 NAD-SFC NoSubs
10  1 10  10  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.1  2.0  0  0.00 100.  1012.  3 NAD-SFC NoSubs
10  1 10  10  3  -10.6  0.150 -9.000 -9.000 -999.  139.     28.7  0.0950  0.72  1.00  2.10  340.0  15.0  281.1  2.0  0  0.00 100.  1012.  3 NAD-SFC NoSubs
10  1 10  10  4  -10.0  0.145 -9.000 -9.000 -999.  132.     27.2  0.0800  0.72  1.00  2.10  325.0  15.0  281.2  2.0  0  0.00 100.  1012.  3 NAD-SFC NoSubs
10  1 10  10  5   -5.2  0.105 -9.000 -9.000 -999.   82.     20.0  0.0800  0.72  1.00  1.50  308.0  15.0  281.5  2.0  0  0.00 100.  1012.  3 NAD-SFC NoSubs
10  1 10  10  6   -2.8  0.084 -9.000 -9.000 -999.   59.     19.4  0.0800  0.72  1.00  1.00  315.0  15.0  281.4  2.0  0  0.00 100.  1013.  3 NAD-SFC NoSubs
10  1 10  10  7   -1.2  0.073 -9.000 -9.000 -999.   47.     29.0  0.0800  0.72  1.00  0.50  314.0  15.0  281.4  2.0  0  0.00 100.  1013.  3 NAD-SFC NoSubs
10  1 10  10  8   -1.0  0.065 -9.000 -9.000 -999.   40.     26.3  0.0420  0.72  0.61  0.50  294.0  15.0  281.6  2.0  0  0.00 100.  1013.  3 NAD-SFC NoSubs
10  1 10  10  9   17.3  0.097  0.336  0.018   79.   72.     -4.7  0.0420  0.72  0.34  1.00  286.0  15.0  281.9  2.0  0  0.00 100.  1013.  3 NAD-SFC NoSubs
10  1 10  10 10   58.0  0.123  0.615  0.015  145.  104.     -2.9  0.0800  0.72  0.25  1.00  302.0  15.0  282.4  2.0  0  0.00 100.  1013.  3 NAD-SFC NoSubs
10  1 10  10 11   87.6  0.130  0.795  0.011  207.  112.     -2.2  0.0800  0.72  0.22  1.00  311.0  15.0  282.9  2.0  0  0.00  99.  1013.  3 NAD-SFC NoSubs
10  1 10  10 12  103.4  0.136  0.953  0.009  302.  121.     -2.2  0.0950  0.72  0.21  1.00  343.0  15.0  283.8  2.0  0  0.00  96.  1012.  3 NAD-SFC NoSubs
10  1 10  10 13  105.1  0.127  1.030  0.008  375.  109.     -1.8  0.0650  0.72  0.20  1.00   35.0  15.0  285.6  2.0  0  0.00  87.  1012.  3 NAD-SFC NoSubs
10  1 10  10 14   92.2  0.088  1.064  0.007  471.   63.     -1.0  0.0960  0.72  0.21  0.50   26.0  15.0  287.5  2.0  0  0.00  78.  1011.  3 NAD-SFC NoSubs
10  1 10  10 15   65.1  0.129  0.990  0.007  537.  112.     -3.0  0.0960  0.72  0.24  1.00   16.0  15.0  288.6  2.0  0  0.00  73.  1011.  3 NAD-SFC NoSubs
10  1 10  10 16   25.4  0.198  0.736  0.007  566.  211.    -27.5  0.0950  0.72  0.32  2.10  338.0  15.0  291.6  2.0  0  0.00  52.  1010.  2 NAD-SFC NoSubs
10  1 10  10 17   -9.1  0.152 -9.000 -9.000 -999.  143.     34.6  0.0950  0.72  0.55  2.10  348.0  15.0  290.9  2.0  0  0.00  55.  1010.  2 NAD-SFC NoSubs
10  1 10  10 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  289.8  2.0  0  0.00  59.  1010.  2 NAD-SFC NoSubs
10  1 10  10 19   -0.9  0.065 -9.000 -9.000 -999.   40.     25.9  0.0220  0.72  1.00  0.50  183.0  15.0  288.5  2.0  0  0.00  65.  1011.  2 NAD-SFC NoSubs
10  1 10  10 20   -1.0  0.065 -9.000 -9.000 -999.   40.     25.9  0.0220  0.72  1.00  0.50  189.0  15.0  287.2  2.0  0  0.00  71.  1011.  2 NAD-SFC NoSubs
10  1 10  10 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  286.5  2.0  0  0.00  76.  1011.  2 NAD-SFC NoSubs
10  1 10  10 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  285.8  2.0  0  0.00  80.  1012.  2 NAD-SFC NoSubs
10  1 10  10 23   -1.2  0.073 -9.000 -9.000 -999.   48.     29.2  0.0800  0.72  1.00  0.50  328.0  15.0  285.0  2.0  0  0.00  82.  1012.  2 NAD-SFC NoSubs
10  1 10  10 24   -2.8  0.085 -9.000 -9.000 -999.   59.     19.5  0.0800  0.72  1.00  1.00  321.0  15.0  284.5  2.0  0  0.00  84.  1012.  2 NAD-SFC NoSubs
10  1 11  11  1   -5.2  0.105 -9.000 -9.000 -999.   82.     19.9  0.0800  0.72  1.00  1.50  310.0  15.0  284.2  2.0  0  0.00  84.  1012.  2 NAD-SFC NoSubs
10  1 11  11  2   -5.3  0.105 -9.000 -9.000 -999.   82.     19.9  0.0800  0.72  1.00  1.50  304.0  15.0  283.9  2.0  0  0.00  83.  1012.  2 NAD-SFC NoSubs
10  1 11  11  3   -8.4  0.128 -9.000 -9.000 -999.  110.     22.6  0.0420  0.72  1.00  2.10  293.0  15.0  283.5  2.0  0  0.00  81.  1012.  2 NAD-SFC NoSubs
10  1 11  11  4   -8.4  0.128 -9.000 -9.000 -999.  110.     22.5  0.0420  0.72  1.00  2.10  284.0  15.0  283.1  2.0  0  0.00  79.  1012.  2 NAD-SFC NoSubs
10  1 11  11  5   -8.4  0.128 -9.000 -9.000 -999.  110.     22.5  0.0420  0.72  1.00  2.10  273.0  15.0  282.8  2.0  0  0.00  75.  1012.  2 NAD-SFC NoSubs
10  1 11  11  6   -3.8  0.086 -9.000 -9.000 -999.   61.     15.2  0.0200  0.72  1.00  1.50  264.0  15.0  282.5  2.0  0  0.00  72.  1013.  2 NAD-SFC NoSubs
10  1 11  11  7   -2.2  0.073 -9.000 -9.000 -999.   48.     16.6  0.0200  0.72  1.00  1.00  252.0  15.0  282.2  2.0  0  0.00  71.  1012.  2 NAD-SFC NoSubs
10  1 11  11  8   -0.9  0.062 -9.000 -9.000 -999.   37.     25.1  0.0220  0.72  0.61  0.50  221.0  15.0  281.8  2.0  0  0.00  72.  1012.  2 NAD-SFC NoSubs
10  1 11  11  9   16.0 -9.000 -9.000 -9.000   68. -999. -99999.0  0.0471  0.72  0.34  0.00    0.0  15.0  282.5  2.0  0  0.00  71.  1012.  2 NAD-SFC NoSubs
10  1 11  11 10   57.7  0.080  0.621  0.011  149.   54.     -1.0  0.0800  0.72  0.25  0.50  305.0  15.0  285.1  2.0  0  0.00  53.  1012.  2 NAD-SFC NoSubs
10  1 11  11 11   88.0  0.085  0.842  0.009  244.   59.     -1.0  0.0800  0.72  0.22  0.50  317.0  15.0  286.5  2.0  0  0.00  52.  1011.  2 NAD-SFC NoSubs
10  1 11  11 12  104.3  0.137  1.016  0.008  362.  121.     -2.2  0.0950  0.72  0.21  1.00  340.0  15.0  288.0  2.0  0  0.00  49.  1010.  2 NAD-SFC NoSubs
10  1 11  11 13  105.9  0.178  1.129  0.007  490.  181.     -4.8  0.0950  0.72  0.20  1.50  355.0  15.0  288.9  2.0  0  0.00  47.  1009.  2 NAD-SFC NoSubs
10  1 11  11 14   92.6  0.222  1.148  0.007  589.  251.    -10.6  0.0960  0.72  0.21  2.10   14.0  15.0  289.2  2.0  0  0.00  47.  1009.  2 NAD-SFC NoSubs
10  1 11  11 15   65.0  0.252  1.055  0.007  650.  303.    -22.0  0.0960  0.72  0.24  2.60   17.0  15.0  289.2  2.0  0  0.00  52.  1008.  2 NAD-SFC NoSubs
10  1 11  11 16   25.2  0.219  0.777  0.007  670.  246.    -37.5  0.0650  0.72  0.32  2.60   41.0  15.0  288.6  2.0  0  0.00  56.  1008.  2 NAD-SFC NoSubs
10  1 11  11 17  -12.6  0.177 -9.000 -9.000 -999.  179.     39.6  0.0650  0.72  0.54  2.60   53.0  15.0  288.1  2.0  0  0.00  58.  1008.  2 NAD-SFC NoSubs
10  1 11  11 18   -9.4  0.139 -9.000 -9.000 -999.  124.     25.6  0.0650  0.72  1.00  2.10   56.0  15.0  287.8  2.0  0  0.00  59.  1008.  2 NAD-SFC NoSubs
10  1 11  11 19   -1.1  0.068 -9.000 -9.000 -999.   44.     27.3  0.0400  0.72  1.00  0.50   79.0  15.0  287.2  2.0  0  0.00  62.  1008.  2 NAD-SFC NoSubs
10  1 11  11 20   -0.9  0.065 -9.000 -9.000 -999.   40.     25.9  0.0220  0.72  1.00  0.50  204.0  15.0  287.1  2.0  0  0.00  64.  1008.  2 NAD-SFC NoSubs
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10	1	11	11	21	-2.2	0.074	-9.000	-9.000	-999.	48.	16.7	0.0220	0.72	1.00	1.00	186.0	15.0	287.2	2.0	0	0.00	63.	1008.	2	NAD-SFC	NoSubs
10	1	11	11	22	-2.2	0.074	-9.000	-9.000	-999.	48.	16.7	0.0220	0.72	1.00	1.00	196.0	15.0	287.2	2.0	0	0.00	62.	1008.	2	NAD-SFC	NoSubs
10	1	11	11	23	-1.0	0.065	-9.000	-9.000	-999.	40.	26.1	0.0240	0.72	1.00	0.50	151.0	15.0	287.5	2.0	0	0.00	59.	1008.	2	NAD-SFC	NoSubs
10	1	11	11	24	-0.9	0.065	-9.000	-9.000	-999.	40.	25.9	0.0220	0.72	1.00	0.50	219.0	15.0	288.0	2.0	0	0.00	54.	1008.	2	NAD-SFC	NoSubs
10	1	12	12	1	-1.3	0.074	-9.000	-9.000	-999.	49.	29.5	0.0960	0.72	1.00	0.50	8.0	15.0	287.9	2.0	0	0.00	54.	1008.	2	NAD-SFC	NoSubs
10	1	12	12	2	-2.9	0.086	-9.000	-9.000	-999.	61.	19.9	0.0960	0.72	1.00	1.00	29.0	15.0	287.6	2.0	0	0.00	55.	1008.	2	NAD-SFC	NoSubs
10	1	12	12	3	-2.9	0.086	-9.000	-9.000	-999.	61.	19.9	0.0960	0.72	1.00	1.00	24.0	15.0	287.2	2.0	0	0.00	57.	1008.	2	NAD-SFC	NoSubs
10	1	12	12	4	-2.9	0.086	-9.000	-9.000	-999.	61.	19.9	0.0960	0.72	1.00	1.00	6.0	15.0	287.1	2.0	0	0.00	57.	1008.	2	NAD-SFC	NoSubs
10	1	12	12	5	-2.9	0.086	-9.000	-9.000	-999.	61.	19.9	0.0960	0.72	1.00	1.00	27.0	15.0	287.0	2.0	0	0.00	58.	1008.	2	NAD-SFC	NoSubs
10	1	12	12	6	-5.5	0.108	-9.000	-9.000	-999.	86.	20.9	0.0960	0.72	1.00	1.50	18.0	15.0	286.6	2.0	0	0.00	60.	1008.	2	NAD-SFC	NoSubs
10	1	12	12	7	-10.7	0.150	-9.000	-9.000	-999.	140.	28.6	0.0960	0.72	1.00	2.10	18.0	15.0	286.2	2.0	0	0.00	63.	1008.	2	NAD-SFC	NoSubs
10	1	12	12	8	4.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	0.61	0.00	0.0	15.0	286.1	2.0	0	0.00	65.	1008.	2	NAD-SFC	NoSubs
10	1	12	12	9	18.7	-9.000	-9.000	-9.000	70.	-999.	-99999.0	0.0471	0.72	0.34	0.00	0.0	15.0	286.0	2.0	0	0.00	67.	1008.	3	NAD-SFC	NoSubs
10	1	12	12	10	59.8	0.286	0.724	0.005	228.	367.	-35.3	0.0960	0.72	0.25	3.10	1.0	15.0	286.8	2.0	0	0.00	66.	1009.	3	NAD-SFC	NoSubs
10	1	12	12	11	89.7	0.367	1.035	0.005	445.	533.	-49.4	0.0950	0.72	0.22	4.10	358.0	15.0	287.5	2.0	0	0.00	62.	1009.	3	NAD-SFC	NoSubs
10	1	12	12	12	105.6	0.371	1.250	0.005	667.	543.	-43.6	0.0960	0.72	0.20	4.10	9.0	15.0	287.5	2.0	0	0.00	63.	1009.	3	NAD-SFC	NoSubs
10	1	12	12	13	107.0	0.336	1.337	0.005	803.	467.	-31.7	0.0960	0.72	0.20	3.60	18.0	15.0	287.6	2.0	0	0.00	65.	1008.	3	NAD-SFC	NoSubs
10	1	12	12	14	93.7	0.259	1.331	0.005	906.	319.	-16.7	0.0960	0.72	0.21	2.60	28.0	15.0	287.5	2.0	0	0.00	67.	1008.	3	NAD-SFC	NoSubs
10	1	12	12	15	66.5	0.158	1.216	0.005	972.	156.	-5.3	0.0650	0.72	0.24	1.50	31.0	15.0	287.5	2.0	0	0.00	68.	1007.	3	NAD-SFC	NoSubs
10	1	12	12	16	27.2	0.117	0.914	0.005	1006.	97.	-5.3	0.0960	0.72	0.31	1.00	29.0	15.0	287.5	2.0	0	0.00	67.	1006.	3	NAD-SFC	NoSubs
10	1	12	12	17	13.1	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	0.54	0.00	0.0	15.0	287.2	2.0	0	0.00	68.	1006.	3	NAD-SFC	NoSubs
10	1	12	12	18	-0.9	0.064	-9.000	-9.000	-999.	39.	25.7	0.0220	0.72	1.00	0.50	229.0	15.0	287.1	2.0	0	0.00	70.	1006.	3	NAD-SFC	NoSubs
10	1	12	12	19	-3.7	0.085	-9.000	-9.000	-999.	60.	15.3	0.0200	0.72	1.00	1.50	242.0	15.0	286.8	2.0	0	0.00	72.	1006.	3	NAD-SFC	NoSubs
10	1	12	12	20	-3.7	0.085	-9.000	-9.000	-999.	60.	15.3	0.0200	0.72	1.00	1.50	255.0	15.0	286.5	2.0	0	0.00	73.	1006.	3	NAD-SFC	NoSubs
10	1	12	12	21	-2.1	0.072	-9.000	-9.000	-999.	47.	16.4	0.0200	0.72	1.00	1.00	266.0	15.0	286.4	2.0	0	0.00	73.	1006.	3	NAD-SFC	NoSubs
10	1	12	12	22	-1.1	0.071	-9.000	-9.000	-999.	46.	28.5	0.0800	0.72	1.00	0.50	307.0	15.0	286.2	2.0	0	0.00	74.	1006.	4	NAD-SFC	NoSubs
10	1	12	12	23	-1.2	0.073	-9.000	-9.000	-999.	47.	29.0	0.0960	0.72	1.00	0.50	5.0	15.0	286.2	2.0	0	0.00	74.	1007.	4	NAD-SFC	NoSubs
10	1	12	12	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	286.4	2.0	0	0.00	73.	1006.	7	NAD-SFC	NoSubs
10	1	13	13	1	-3.9	0.107	-9.000	-9.000	-999.	84.	28.6	0.0960	0.72	1.00	1.50	19.0	15.0	286.4	2.0	0	0.76	74.	1006.	10	NAD-SFC	NoSubs
10	1	13	13	2	-11.9	0.215	-9.000	-9.000	-999.	240.	75.2	0.0650	0.72	1.00	3.10	48.0	15.0	286.1	2.0	0	1.27	78.	1006.	10	NAD-SFC	NoSubs
10	1	13	13	3	-10.9	0.197	-9.000	-9.000	-999.	210.	62.8	0.0400	0.72	1.00	3.10	63.0	15.0	285.8	2.0	0	1.27	83.	1006.	10	NAD-SFC	NoSubs
10	1	13	13	4	-3.4	0.099	-9.000	-9.000	-999.	79.	25.5	0.0650	0.72	1.00	1.50	49.0	15.0	285.9	2.0	0	1.02	84.	1006.	10	NAD-SFC	NoSubs
10	1	13	13	5	-1.1	0.071	-9.000	-9.000	-999.	45.	28.4	0.0950	0.72	1.00	0.50	344.0	15.0	286.2	2.0	0	1.02	84.	1006.	5	NAD-SFC	NoSubs
10	1	13	13	6	-1.2	0.073	-9.000	-9.000	-999.	47.	28.9	0.0950	0.72	1.00	0.50	330.0	15.0	286.2	2.0	0	0.51	85.	1007.	4	NAD-SFC	NoSubs
10	1	13	13	7	-1.1	0.071	-9.000	-9.000	-999.	46.	28.5	0.0800	0.72	1.00	0.50	317.0	15.0	285.8	2.0	0	0.00	89.	1008.	4	NAD-SFC	NoSubs
10	1	13	13	8	-3.9	0.093	-9.000	-9.000	-999.	68.	18.3	0.0420	0.72	0.61	1.50	293.0	15.0	285.0	2.0	0	0.00	93.	1009.	4	NAD-SFC	NoSubs
10	1	13	13	9	20.1	0.399	0.370	0.005	91.	606.	-285.0	0.0420	0.72	0.34	5.70	291.0	15.0	286.0	2.0	0	0.00	85.	1010.	4	NAD-SFC	NoSubs
10	1	13	13	10	60.8	0.533	0.856	0.005	372.	933.	-224.6	0.0800	0.72	0.25	6.70	313.0	15.0	287.9	2.0	0	0.00	69.	1011.	4	NAD-SFC	NoSubs
10	1	13	13	11	87.9	0.468	1.121	0.005	578.	774.	-105.3	0.0800	0.72	0.22	5.70	322.0	15.0	288.8	2.0	0	0.00	60.	1011.	5	NAD-SFC	NoSubs
10	1	13	13	12	103.1	0.472	1.287	0.005	746.	778.	-91.9	0.0800	0.72	0.20	5.70	321.0	15.0	289.2	2.0	0	0.00	57.	1011.	5	NAD-SFC	NoSubs
10	1	13	13	13	104.5	0.487	1.367	0.005	881.	815.	-99.6	0.0950	0.72	0.20	5.70	330.0	15.0	289.5	2.0	0	0.00	56.	1011.	5	NAD-SFC	NoSubs
10	1	13	13	14	92.2	0.521	1.360	0.005	985.	901.	-138.1	0.0950	0.72	0.21	6.20	337.0	15.0	289.5	2.0	0	0.00	57.	1011.	5	NAD-SFC	NoSubs
10	1	13	13	15	66.5	0.514	1.246	0.005	1049.	886.	-184.5	0.0950	0.72	0.24	6.20	341.0	15.0	289.2	2.0	0	0.00	58.	1011.	5	NAD-SFC	NoSubs
10	1	13	13	16	28.4	0.345	0.946	0.005	1074.	511.	-130.5	0.0950	0.72	0.31	4.10	336.0	15.0	288.8	2.0	0	0.00	68.	1011.	3	NAD-SFC	NoSubs
10	1	13	13	17	-24.3	0.349	-9.000	-9.000	-999.	495.	157.9	0.0950	0.72	0.53	4.60	337.0	15.0	287.2	2.0	0	0.00	74.	1011.	3	NAD-SFC	NoSubs
10	1	13	13	18	-33.4	0.307	-9.000	-9.000	-999.	409.	77.9	0.0950	0.72	1.00	4.10	334.0	15.0	286.1	2.0	0	0.00	77.	1011.	2	NAD-SFC	NoSubs
10	1	13	13	19	-28.3	0.258	-9.000	-9.000	-999.	316.	55.0	0.0800	0.72	1.00	3.60	320.0	15.0	285.2	2.0	0	0.00	79.	1012.	2	NAD-SFC	NoSubs
10	1	13	13	20	-22.5	0.221	-9.000	-9.000	-999.	249.	43.1	0.0800	0.72	1.00	3.10	316.0	15.0	284.6	2.0	0	0.00	82.	1013.	3	NAD-SFC	NoSubs
10	1	13	13	21	-10.0	0.145	-9.000	-9.000	-999.	134.	27.4	0.0800	0.72	1.00	2.10	328.0	15.0	284.1	2.0	0	0.00	83.	1013.	3	NAD-SFC	NoSubs
10	1	13	13	22	-1.2	0.074	-9.000	-9.000	-999.	50.	29.4	0.0950	0.72	1.00	0.50	341.0	15.0	283.6	2.0	0	0.00	85.	1014.	3	NAD-SFC	NoSubs
10	1	13	13	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	283.2	2.0	0	0.00	86.	1014.	3	NAD-SFC	NoSubs
10	1	13	13	24	-1.0	0.065	-9.000	-9.000	-999.	40.	26.0	0.0240	0.72	1.00	0.50	168.0	15.0	282.6	2.0	0	0.00	88.	1014.	3	NAD-SFC	NoSubs
10	1	14	14	1	-0.9	0.065	-9.000	-9.000	-999.	39.	25.8	0.0220	0.72	1.00	0.50	184.0	15.0	282.0	2.0	0	0.00	91.	1014.	3	NAD-SFC	NoSubs
10	1	14	14	2	-0.9	0.065	-9.000	-9.000	-999.	40.	25.8	0.0220	0.72	1.00	0.50	193.0	15.0	281.6	2.0	0	0.00	93.	1014.	3	NAD-SFC	NoSubs
10	1	14	14	3	-0.9	0.065	-9.000	-9.000	-999.	40.	25.9	0.0220	0.72	1.00	0.50	228.0	15.0	281.1	2.0	0	0.00	94.	1014.	3	NAD-SFC	NoSubs
10	1	14	14	4	-1.0	0.065	-9.000	-9.000	-999.	40.	25.9	0.0200	0.72	1.00	0.50	250.0	15.0	280.8	2.0	0	0.00	96.	1014.	2	NAD-SFC	NoSubs
10	1	14	14	5	-3.8	0.086	-9.000	-9.000	-999.	61.	15.2	0.0200	0.72	1.00	1.50	262.0	15.0	280.5	2.0	0	0.00	97.	1014.	2	NAD-SFC	NoSubs
10	1	14	14	6	-7.0	0.113	-9.000	-9.000	-999.	92.	18.8	0.0200	0.72	1.00	2.10	266.0	15.0	280.2	2.0	0	0.00	98.	1014.	2	NAD-SFC	NoSubs
10	1	14	14	7	-4.5	0.095	-9.000	-9.000	-999.	70.	17.3	0.0420	0.72	1.00	1.50	272.0	15.0	279.0	2.0	0	0.00	100.	1014.	2	NAD-SFC	NoSubs
10	1	14	14	8	-2.3	0.076	-9.000	-9.000	-999.	51.	17.7	0.0420	0.72	0.61	1.00	294.0	15.0	278.4	2.0	0	0.00	100.	1014.	2	NAD-SFC	NoSubs
10	1	14	14	9	16.3	0.143	0.324	0.005	75.	130.	-16.4	0.0800	0.72	0.34	1.50	320.0	15.0	279.2	2.0	0	0.00	100.	1014.	2	NAD-SFC	NoSubs
10	1	14	14	10	57.9	0.167	0.837	0.005	367.	163.	-7.2	0.0950	0.72	0.25	1.50	330.0	15.0	280.0	2.0	0	0.00	98.	1014.	2	NAD-SFC	NoSubs
10	1	14	14	11	88.2	0.134	1.104	0.007	552.	118.	-2.5	0.0950	0.72	0.21	1.00	348.0	15.0	280.8	2.0	0	0.00	93.	1014.	2	NAD-SFC	NoSubs
10	1	14	14	12	104.8	0.083	1.260	0.008	691.	58.	-1.0	0.0650	0.72	0.20	0.50	37.0	15.0	282.2	2.0	0	0.00	83.	1013.	2	NAD-SFC	NoSubs
10	1	14	14	13	106.7	-9.000	-9.000	-9.000	777.	-999.	-99999.0	0.0471	0.72	0.20	0.00	0.0	15.0	284.1	2.0	0	0.00	71.	1012.	2	NAD-SFC	NoSubs
10	1	14	14	14	93.8	0.088	1.300	0.008	846.	63.	-1.0	0.0960	0.72	0.21	0.50	1.0	15.0	285.2	2.0	0	0.00	64.	1012.	2	NAD-SFC	NoSubs
10	1	14	14	15	66.6	0.130	1.180	0.008	892.	112.	-3.0	0.0960	0.72	0.24	1.00	17.0	15.0	285.9	2.0	0	0.00	61.	1012.	2	NAD-SFC	NoSubs
10	1	14	14	16	26.9	0.109	0.879	0.008	910.	86.	-4.3	0.0650	0.72	0.31	1.00	36.0	15.0	285.8	2.0	0	0.00	63.	1011.	2	NAD-SFC	NoSubs
10	1	14	14	17	-3.5	0.091	-9.000	-9.000	-999.	66.	19.5	0.0400	0.72	0.52	1.50	62.0	15.0	285.1	2.0	0	0.00	67.	1011.	2	NAD-SFC	NoSubs
10	1	14	14	18	-4.4	0.094	-9.000	-9.000	-999.	69.	17.2	0.0400	0.72	1.00	1.50	76.0	15.0	284.2	2.0	0	0.00	71.	1011.	2	NAD-SFC	NoSubs
10	1	14	14	19	-2.3	0.077	-9.000	-9.000	-999.	51.	17.4	0.0310	0.72	1.00	1.00	115.0	15.0	283.5	2.0	0	0.00	76.	1011.	2	NAD-SFC	NoSubs
10	1	14	14	20	-1.0	0.067	-9.000	-9.000	-999.	42.	26.8	0.0310	0.72	1.00	0.50	113.0	15.0	283.0	2.0	0	0.00	79.	1012.	2	NAD-SFC	NoSubs
10	1	14	14	21	-1.1	0.069	-9.000	-9.000	-999.	43.	27.5	0.0400	0.72	1.00	0.50	86.0	15.0	282.6	2.0	0	0.00	82.	1012.	2	NAD-SFC	NoSubs
10	1	14	14	22	-1.1	0.069	-9.000	-9.000	-999.	43.	27.5	0.0400	0.72	1.00	0.50	67.0	15.0	282.2	2.0	0	0.00	85.	1012.	2	NAD-SFC	NoSubs
10	1	14	14	23	-1.2	0.072	-9.000	-9.000	-999.	47.	28.7	0.0650	0.72	1.00	0.50	47.0	15.0	281.9	2.0	0	0.00	87.	1012.	2	NAD-SFC	NoSubs
10	1	14	14	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	281.5	2.0	0	0.00	89.	1012.	2	NAD-SFC	NoSubs
10	1	15	15	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	281.2	2.0	0	0.00	90.	1012.	2	NAD-SFC	NoSubs

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10  1 15  15  2   -1.3  0.075 -9.000 -9.000 -999.   49.     29.8  0.0950  0.72  1.00   0.50  352.0  15.0  281.2   2.0    0   0.00   90.  1012.     2 NAD-SFC NoSubs
10  1 15  15  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  281.1   2.0    0   0.00   90.  1012.     2 NAD-SFC NoSubs
10  1 15  15  4   -3.0  0.087 -9.000 -9.000 -999.   62.     20.0  0.0950  0.72  1.00   1.00  350.0  15.0  281.0   2.0    0   0.00   90.  1011.     2 NAD-SFC NoSubs
10  1 15  15  5   -2.9  0.085 -9.000 -9.000 -999.   60.     19.5  0.0800  0.72  1.00   1.00  325.0  15.0  280.9   2.0    0   0.00   89.  1011.     2 NAD-SFC NoSubs
10  1 15  15  6   -3.0  0.087 -9.000 -9.000 -999.   62.     20.0  0.0950  0.72  1.00   1.00  330.0  15.0  280.9   2.0    0   0.00   88.  1011.     2 NAD-SFC NoSubs
10  1 15  15  7   -1.2  0.074 -9.000 -9.000 -999.   48.     29.3  0.0800  0.72  1.00   0.50  309.0  15.0  280.9   2.0    0   0.00   88.  1011.     2 NAD-SFC NoSubs
10  1 15  15  8   -2.2  0.076 -9.000 -9.000 -999.   50.     17.6  0.0420  0.72  0.60   1.00  292.0  15.0  280.8   2.0    0   0.00   88.  1012.     2 NAD-SFC NoSubs
10  1 15  15  9   16.9  0.144  0.317  0.010   68.  131.    -15.9  0.0800  0.72  0.34   1.50  307.0  15.0  281.0   2.0    0   0.00   87.  1012.     2 NAD-SFC NoSubs
10  1 15  15 10   58.9  0.206  0.674  0.010  188.  224.    -13.3  0.0800  0.72  0.25   2.10  317.0  15.0  282.5   2.0    0   0.00   77.  1012.     2 NAD-SFC NoSubs
10  1 15  15 11   89.4  0.175  0.943  0.011  339.  176.     -5.4  0.0950  0.72  0.21   1.50  332.0  15.0  283.5   2.0    0   0.00   73.  1012.     2 NAD-SFC NoSubs
10  1 15  15 12  106.0  0.178  1.101  0.011  454.  181.     -4.8  0.0950  0.72  0.20   1.50  350.0  15.0  284.6   2.0    0   0.00   68.  1011.     2 NAD-SFC NoSubs
10  1 15  15 13  107.8  0.179  1.174  0.011  542.  182.     -4.8  0.0960  0.72  0.20   1.50    4.0  15.0  285.4   2.0    0   0.00   65.  1011.     2 NAD-SFC NoSubs
10  1 15  15 14   94.8 -9.000 -9.000 -9.000  609. -999. -99999.0  0.0471  0.72  0.21   0.00    0.0  15.0  285.8   2.0    0   0.00   64.  1010.     2 NAD-SFC NoSubs
10  1 15  15 15   67.4  0.170  1.069  0.011  653.  168.     -6.5  0.0960  0.72  0.24   1.50   13.0  15.0  285.8   2.0    0   0.00   67.  1010.     2 NAD-SFC NoSubs
10  1 15  15 16   27.9  0.156  0.803  0.011  668.  147.    -12.2  0.0960  0.72  0.31   1.50   16.0  15.0  286.0   2.0    0   0.00   56.  1010.     2 NAD-SFC NoSubs
10  1 15  15 17   -1.9  0.073 -9.000 -9.000 -999.   50.     18.1  0.0650  0.72  0.52   1.00   43.0  15.0  285.8   2.0    0   0.00   58.  1009.     2 NAD-SFC NoSubs
10  1 15  15 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  285.2   2.0    0   0.00   61.  1009.     2 NAD-SFC NoSubs
10  1 15  15 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  284.8   2.0    0   0.00   65.  1009.     2 NAD-SFC NoSubs
10  1 15  15 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  284.6   2.0    0   0.00   67.  1009.     2 NAD-SFC NoSubs
10  1 15  15 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  284.5   2.0    0   0.00   68.  1008.     2 NAD-SFC NoSubs
10  1 15  15 22   -1.3  0.075 -9.000 -9.000 -999.   49.     29.6  0.0950  0.72  1.00   0.50  343.0  15.0  284.4   2.0    0   0.00   68.  1008.     2 NAD-SFC NoSubs
10  1 15  15 23   -2.9  0.087 -9.000 -9.000 -999.   61.     20.0  0.0960  0.72  1.00   1.00    9.0  15.0  284.2   2.0    0   0.00   70.  1008.     2 NAD-SFC NoSubs
10  1 15  15 24  -10.7  0.150 -9.000 -9.000 -999.  140.     28.5  0.0960  0.72  1.00   2.10   10.0  15.0  284.1   2.0    0   0.00   70.  1007.     2 NAD-SFC NoSubs
10  1 16  16  1  -10.7  0.150 -9.000 -9.000 -999.  140.     28.5  0.0960  0.72  1.00   2.10    6.0  15.0  284.0   2.0    0   0.00   70.  1007.     2 NAD-SFC NoSubs
10  1 16  16  2   -5.5  0.108 -9.000 -9.000 -999.   86.     20.8  0.0950  0.72  1.00   1.50  349.0  15.0  283.9   2.0    0   0.00   71.  1007.     2 NAD-SFC NoSubs
10  1 16  16  3   -5.5  0.108 -9.000 -9.000 -999.   86.     20.8  0.0950  0.72  1.00   1.50  337.0  15.0  283.9   2.0    0   0.00   71.  1006.     2 NAD-SFC NoSubs
10  1 16  16  4   -5.2  0.105 -9.000 -9.000 -999.   82.     19.9  0.0800  0.72  1.00   1.50  329.0  15.0  283.9   2.0    0   0.00   71.  1006.     2 NAD-SFC NoSubs
10  1 16  16  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  283.9   2.0    0   0.00   70.  1006.     2 NAD-SFC NoSubs
10  1 16  16  6  -16.7  0.189 -9.000 -9.000 -999.  198.     36.6  0.0960  0.72  1.00   2.60   12.0  15.0  284.0   2.0    0   0.00   69.  1006.     2 NAD-SFC NoSubs
10  1 16  16  7  -10.7  0.150 -9.000 -9.000 -999.  140.     28.5  0.0960  0.72  1.00   2.10   22.0  15.0  284.1   2.0    0   0.00   68.  1006.     2 NAD-SFC NoSubs
10  1 16  16  8   -2.6  0.083 -9.000 -9.000 -999.   59.     19.6  0.0960  0.72  0.60   1.00    8.0  15.0  284.1   2.0    0   0.00   68.  1006.     2 NAD-SFC NoSubs
10  1 16  16  9   18.0  0.071  0.311  0.011   60.   46.     -1.8  0.0950  0.72  0.33   0.50  352.0  15.0  284.1   2.0    0   0.00   68.  1006.     2 NAD-SFC NoSubs
10  1 16  16 10   60.0  0.167  0.660  0.008  172.  164.     -7.0  0.0950  0.72  0.25   1.50  337.0  15.0  285.2   2.0    0   0.00   63.  1006.     2 NAD-SFC NoSubs
10  1 16  16 11   91.1  0.175  0.929  0.006  315.  176.     -5.3  0.0950  0.72  0.21   1.50  341.0  15.0  287.8   2.0    0   0.00   49.  1006.     2 NAD-SFC NoSubs
10  1 16  16 12  107.9  0.179  1.115  0.005  461.  181.     -4.7  0.0950  0.72  0.20   1.50  352.0  15.0  288.9   2.0    0   0.00   47.  1005.     2 NAD-SFC NoSubs
10  1 16  16 13  109.9 -9.000 -9.000 -9.000  603. -999. -99999.0  0.0471  0.72  0.20   0.00    0.0  15.0  289.8   2.0    0   0.00   43.  1004.     2 NAD-SFC NoSubs
10  1 16  16 14   98.0 -9.000 -9.000 -9.000  720. -999. -99999.0  0.0471  0.72  0.21   0.00    0.0  15.0  290.5   2.0    0   0.00   40.  1003.     3 NAD-SFC NoSubs
10  1 16  16 15   71.1  0.217  1.169  0.005  804.  242.    -12.8  0.0960  0.72  0.23   2.10   11.0  15.0  290.9   2.0    0   0.00   39.  1002.     3 NAD-SFC NoSubs
10  1 16  16 16   31.8  0.202  0.907  0.005  838.  218.    -23.2  0.0960  0.72  0.30   2.10   15.0  15.0  290.8   2.0    0   0.00   43.  1002.     3 NAD-SFC NoSubs
10  1 16  16 17   -8.0  0.154 -9.000 -9.000 -999.  146.     41.0  0.0960  0.72  0.51   2.10    6.0  15.0  290.2   2.0    0   0.00   45.  1001.     3 NAD-SFC NoSubs
10  1 16  16 18   -5.3  0.108 -9.000 -9.000 -999.   86.     21.1  0.0960  0.72  1.00   1.50   21.0  15.0  289.4   2.0    0   0.00   49.  1002.     3 NAD-SFC NoSubs
10  1 16  16 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  288.4   2.0    0   0.00   54.  1002.     3 NAD-SFC NoSubs
10  1 16  16 20   -2.4  0.078 -9.000 -9.000 -999.   52.     17.9  0.0420  0.72  1.00   1.00  270.0  15.0  287.2   2.0    0   0.00   60.  1003.     3 NAD-SFC NoSubs
10  1 16  16 21   -2.4  0.078 -9.000 -9.000 -999.   52.     17.9  0.0420  0.72  1.00   1.00  286.0  15.0  286.2   2.0    0   0.00   64.  1003.     3 NAD-SFC NoSubs
10  1 16  16 22   -5.1  0.105 -9.000 -9.000 -999.   81.     20.1  0.0800  0.72  1.00   1.50  316.0  15.0  285.6   2.0    0   0.00   68.  1004.     3 NAD-SFC NoSubs
10  1 16  16 23  -15.5  0.182 -9.000 -9.000 -999.  187.     35.2  0.0800  0.72  1.00   2.60  319.0  15.0  284.9   2.0    0   0.00   73.  1004.     3 NAD-SFC NoSubs
10  1 16  16 24  -16.4  0.189 -9.000 -9.000 -999.  197.     37.0  0.0950  0.72  1.00   2.60  332.0  15.0  284.2   2.0    0   0.00   78.  1004.     3 NAD-SFC NoSubs
10  1 17  17  1  -16.4  0.189 -9.000 -9.000 -999.  197.     37.0  0.0950  0.72  1.00   2.60  357.0  15.0  283.8   2.0    0   0.00   83.  1004.     3 NAD-SFC NoSubs
10  1 17  17  2  -16.4  0.190 -9.000 -9.000 -999.  198.     37.1  0.0960  0.72  1.00   2.60   28.0  15.0  283.2   2.0    0   0.00   87.  1004.     3 NAD-SFC NoSubs
10  1 17  17  3   -9.3  0.139 -9.000 -9.000 -999.  125.     25.7  0.0650  0.72  1.00   2.10   49.0  15.0  282.9   2.0    0   0.00   89.  1004.     3 NAD-SFC NoSubs
10  1 17  17  4   -1.0  0.067 -9.000 -9.000 -999.   43.     26.6  0.0310  0.72  1.00   0.50   94.0  15.0  282.8   2.0    0   0.00   90.  1004.     3 NAD-SFC NoSubs
10  1 17  17  5   -4.0  0.089 -9.000 -9.000 -999.   64.     16.2  0.0280  0.72  1.00   1.50  143.0  15.0  282.2   2.0    0   0.00   92.  1004.     3 NAD-SFC NoSubs
10  1 17  17  6   -7.2  0.117 -9.000 -9.000 -999.   96.     19.9  0.0240  0.72  1.00   2.10  157.0  15.0  282.1   2.0    0   0.00   90.  1004.     3 NAD-SFC NoSubs
10  1 17  17  7   -7.1  0.117 -9.000 -9.000 -999.   96.     19.9  0.0240  0.72  1.00   2.10  160.0  15.0  282.2   2.0    0   0.00   86.  1004.     3 NAD-SFC NoSubs
10  1 17  17  8   -6.9  0.120 -9.000 -9.000 -999.  100.     22.3  0.0280  0.72  0.60   2.10  141.0  15.0  282.2   2.0    0   0.00   83.  1004.     3 NAD-SFC NoSubs
10  1 17  17  9   19.7  0.123  0.362  0.007   86.  104.     -8.5  0.0280  0.72  0.33   1.50  124.0  15.0  282.8   2.0    0   0.00   79.  1004.     3 NAD-SFC NoSubs
10  1 17  17 10   61.6  0.065  0.729  0.005  225.   40.     -1.0  0.0240  0.72  0.24   0.50  162.0  15.0  284.8   2.0    0   0.00   71.  1004.     3 NAD-SFC NoSubs
10  1 17  17 11   92.2 -9.000 -9.000 -9.000  394. -999. -99999.0  0.0471  0.72  0.21   0.00    0.0  15.0  285.9   2.0    0   0.00   69.  1003.     3 NAD-SFC NoSubs
10  1 17  17 12  108.8  0.077  1.220  0.005  597.   51.     -1.0  0.0420  0.72  0.20   0.50  285.0  15.0  286.9   2.0    0   0.00   66.  1003.     3 NAD-SFC NoSubs
10  1 17  17 13  110.8  0.077  1.337  0.005  772.   52.     -1.0  0.0420  0.72  0.20   0.50  276.0  15.0  287.6   2.0    0   0.00   63.  1002.     3 NAD-SFC NoSubs
10  1 17  17 14   97.5  0.086  1.352  0.005  907.   60.     -1.0  0.0800  0.72  0.21   0.50  308.0  15.0  288.0   2.0    0   0.00   62.  1002.     4 NAD-SFC NoSubs
10  1 17  17 15   69.5 -9.000 -9.000 -9.000  995. -999. -99999.0  0.0471  0.72  0.23   0.00    0.0  15.0  287.9   2.0    0   0.00   66.  1002.     5 NAD-SFC NoSubs
10  1 17  17 16   27.8  0.062  0.929  0.005 1030.   37.     -1.0  0.0310  0.72  0.30   0.50  112.0  15.0  286.9   2.0    0   0.25   76.  1002.     7 NAD-SFC NoSubs
10  1 17  17 17   -4.9  0.126 -9.000 -9.000 -999.  107.     36.0  0.0310  0.72  0.50   2.10   98.0  15.0  285.9   2.0    0   0.51   85.  1002.     6 NAD-SFC NoSubs
10  1 17  17 18  -15.8  0.186 -9.000 -9.000 -999.  192.     36.3  0.0310  0.72  1.00   3.10  119.0  15.0  285.2   2.0    0   0.76   91.  1003.     6 NAD-SFC NoSubs
10  1 17  17 19  -20.7  0.214 -9.000 -9.000 -999.  237.     42.1  0.0280  0.72  1.00   3.60  139.0  15.0  284.8   2.0    0   0.76   93.  1003.     5 NAD-SFC NoSubs
10  1 17  17 20  -23.8  0.245 -9.000 -9.000 -999.  291.     55.4  0.0280  0.72  1.00   4.10  147.0  15.0  284.4   2.0    0   0.51   94.  1003.     5 NAD-SFC NoSubs
10  1 17  17 21  -23.8  0.245 -9.000 -9.000 -999.  291.     55.3  0.0280  0.72  1.00   4.10  138.0  15.0  284.2   2.0    0   0.51   93.  1003.     5 NAD-SFC NoSubs
10  1 17  17 22  -19.5  0.214 -9.000 -9.000 -999.  238.     45.1  0.0280  0.72  1.00   3.60  138.0  15.0  284.4   2.0    0   0.51   92.  1003.     6 NAD-SFC NoSubs
10  1 17  17 23  -15.9  0.182 -9.000 -9.000 -999.  187.     34.0  0.0280  0.72  1.00   3.10  141.0  15.0  284.5   2.0    0   0.51   93.  1002.     5 NAD-SFC NoSubs
10  1 17  17 24  -15.9  0.182 -9.000 -9.000 -999.  187.     34.0  0.0280  0.72  1.00   3.10  139.0  15.0  284.6   2.0    0   0.51   93.  1002.     5 NAD-SFC NoSubs
10  1 18  18  1  -16.2  0.182 -9.000 -9.000 -999.  186.     33.1  0.0280  0.72  1.00   3.10  130.0  15.0  284.8   2.0    0   0.51   94.  1001.     4 NAD-SFC NoSubs
10  1 18  18  2  -15.9  0.182 -9.000 -9.000 -999.  187.     34.0  0.0280  0.72  1.00   3.10  129.0  15.0  284.8   2.0    0   0.76   94.  1001.     5 NAD-SFC NoSubs
10  1 18  18  3  -22.1  0.217 -9.000 -9.000 -999.  243.     41.4  0.0310  0.72  1.00   3.60  119.0  15.0  284.9   2.0    0   1.02   95.  1000.     4 NAD-SFC NoSubs
10  1 18  18  4  -21.7  0.213 -9.000 -9.000 -999.  237.     40.0  0.0280  0.72  1.00   3.60  123.0  15.0  284.9   2.0    0   1.27   95.   999.     4 NAD-SFC NoSubs
10  1 18  18  5  -25.3  0.249 -9.000 -9.000 -999.  298.     54.5  0.0310  0.72  1.00   4.10  115.0  15.0  285.0   2.0    0   1.02   94.   998.     4 NAD-SFC NoSubs
10  1 18  18  6  -23.6  0.245 -9.000 -9.000 -999.  291.     55.5  0.0280  0.72  1.00   4.10  122.0  15.0  285.1   2.0    0   1.02   94.   997.     5 NAD-SFC NoSubs
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10  1 18  18  7  -27.1  0.281 -9.000 -9.000 -999.  358.    73.0  0.0310  0.72  1.00   4.60  119.0  15.0  285.1   2.0    0   1.02   93.  996.    5 NAD-SFC NoSubs
10  1 18  18  8  -22.6  0.282 -9.000 -9.000 -999.  360.    88.4  0.0310  0.72  0.60   4.60  118.0  15.0  285.2   2.0    0   0.51   91.  995.    5 NAD-SFC NoSubs
10  1 18  18  9   21.9  0.339  0.479  0.005  177.  474.  -158.0  0.0280  0.72  0.33   5.10  123.0  15.0  285.9   2.0    0   0.00   86.  995.    4 NAD-SFC NoSubs
10  1 18  18 10   62.9  0.354  0.849  0.005  344.  505.   -62.5  0.0280  0.72  0.24   5.10  132.0  15.0  286.8   2.0    0   0.00   80.  994.    4 NAD-SFC NoSubs
10  1 18  18 11   92.9  0.361  1.122  0.005  538.  520.   -44.8  0.0280  0.72  0.21   5.10  127.0  15.0  287.8   2.0    0   0.00   74.  993.    4 NAD-SFC NoSubs
10  1 18  18 12  109.3  0.364  1.311  0.006  730.  527.   -39.0  0.0280  0.72  0.20   5.10  127.0  15.0  288.8   2.0    0   0.00   70.  991.    4 NAD-SFC NoSubs
10  1 18  18 13  108.1  0.400  1.400  0.007  898.  606.   -52.1  0.0280  0.72  0.20   5.70  131.0  15.0  289.0   2.0    0   0.00   70.  991.    5 NAD-SFC NoSubs
10  1 18  18 14   98.6  0.362  1.404  0.007  993.  524.   -42.5  0.0280  0.72  0.21   5.10  135.0  15.0  288.8   2.0    0   0.00   74.  991.    4 NAD-SFC NoSubs
10  1 18  18 15   72.2  0.327  1.280  0.006 1027.  449.   -42.6  0.0280  0.72  0.23   4.60  141.0  15.0  288.5   2.0    0   0.51   75.  991.    4 NAD-SFC NoSubs
10  1 18  18 16   33.7  0.304  0.998  0.006 1043.  402.   -73.5  0.0220  0.72  0.30   4.60  195.0  15.0  288.4   2.0    0   1.27   76.  991.    4 NAD-SFC NoSubs
10  1 18  18 17  -20.2  0.367 -9.000 -9.000 -999.  534.   217.4  0.0220  0.72  0.50   6.20  229.0  15.0  287.1   2.0    0   0.51   86.  992.    3 NAD-SFC NoSubs
10  1 18  18 18  -27.7  0.266 -9.000 -9.000 -999.  334.    59.9  0.0220  0.72  1.00   4.60  219.0  15.0  286.5   2.0    0   0.00   85.  994.    3 NAD-SFC NoSubs
10  1 18  18 19  -21.5  0.208 -9.000 -9.000 -999.  229.    37.1  0.0240  0.72  1.00   3.60  175.0  15.0  286.5   2.0    0   0.00   81.  995.    3 NAD-SFC NoSubs
10  1 18  18 20  -24.9  0.239 -9.000 -9.000 -999.  280.    48.3  0.0240  0.72  1.00   4.10  160.0  15.0  286.1   2.0    0   0.00   80.  995.    3 NAD-SFC NoSubs
10  1 18  18 21  -25.6  0.245 -9.000 -9.000 -999.  290.    50.7  0.0280  0.72  1.00   4.10  149.0  15.0  285.6   2.0    0   0.00   79.  996.    3 NAD-SFC NoSubs
10  1 18  18 22  -25.1  0.239 -9.000 -9.000 -999.  280.    48.2  0.0240  0.72  1.00   4.10  151.0  15.0  285.2   2.0    0   0.00   78.  997.    3 NAD-SFC NoSubs
10  1 18  18 23  -28.3  0.269 -9.000 -9.000 -999.  335.    61.2  0.0240  0.72  1.00   4.60  153.0  15.0  284.8   2.0    0   0.00   78.  997.    3 NAD-SFC NoSubs
10  1 18  18 24  -32.4  0.307 -9.000 -9.000 -999.  409.    79.6  0.0280  0.72  1.00   5.10  146.0  15.0  284.2   2.0    0   0.00   78.  997.    3 NAD-SFC NoSubs
10  1 19  19  1  -31.6  0.300 -9.000 -9.000 -999.  394.    75.7  0.0240  0.72  1.00   5.10  157.0  15.0  283.9   2.0    0   0.00   77.  997.    3 NAD-SFC NoSubs
10  1 19  19  2  -28.4  0.269 -9.000 -9.000 -999.  336.    60.9  0.0240  0.72  1.00   4.60  157.0  15.0  283.5   2.0    0   0.00   77.  996.    3 NAD-SFC NoSubs
10  1 19  19  3  -29.2  0.276 -9.000 -9.000 -999.  348.    64.0  0.0280  0.72  1.00   4.60  145.0  15.0  283.2   2.0    0   0.00   76.  996.    3 NAD-SFC NoSubs
10  1 19  19  4  -33.0  0.313 -9.000 -9.000 -999.  419.    82.2  0.0310  0.72  1.00   5.10  116.0  15.0  283.5   2.0    0   0.00   72.  996.    3 NAD-SFC NoSubs
10  1 19  19  5  -32.4  0.307 -9.000 -9.000 -999.  409.    79.5  0.0280  0.72  1.00   5.10  123.0  15.0  283.6   2.0    0   0.00   67.  995.    3 NAD-SFC NoSubs
10  1 19  19  6  -29.1  0.276 -9.000 -9.000 -999.  348.    64.1  0.0280  0.72  1.00   4.60  128.0  15.0  283.8   2.0    0   0.00   63.  994.    3 NAD-SFC NoSubs
10  1 19  19  7  -29.0  0.276 -9.000 -9.000 -999.  348.    64.2  0.0280  0.72  1.00   4.60  132.0  15.0  284.1   2.0    0   0.00   62.  994.    3 NAD-SFC NoSubs
10  1 19  19  8  -26.3  0.309 -9.000 -9.000 -999.  411.    99.2  0.0280  0.72  0.59   5.10  122.0  15.0  283.9   2.0    0   0.25   71.  994.    4 NAD-SFC NoSubs
10  1 19  19  9   22.2  0.413  0.375  0.005   84.  636.  -279.8  0.0310  0.72  0.33   6.20  107.0  15.0  284.1   2.0    0   0.76   79.  993.    5 NAD-SFC NoSubs
10  1 19  19 10   63.0  0.419  0.769  0.005  255.  652.  -103.5  0.0280  0.72  0.24   6.20  121.0  15.0  284.9   2.0    0   1.02   81.  992.    4 NAD-SFC NoSubs
10  1 19  19 11   93.0  0.486  1.083  0.005  483.  812.  -109.1  0.0280  0.72  0.21   7.20  124.0  15.0  285.8   2.0    0   0.51   78.  992.    4 NAD-SFC NoSubs
10  1 19  19 12  109.6  0.406  1.360  0.005  812.  626.   -53.9  0.0310  0.72  0.20   5.70  119.0  15.0  287.1   2.0    0   0.25   74.  990.    4 NAD-SFC NoSubs
10  1 19  19 13  111.9  0.306  1.494  0.005 1053.  412.   -22.5  0.0280  0.72  0.20   4.10  140.0  15.0  288.4   2.0    0   0.76   69.  989.    4 NAD-SFC NoSubs
10  1 19  19 14  100.2  0.267  1.499  0.005 1188.  333.   -16.8  0.0240  0.72  0.21   3.60  170.0  15.0  288.9   2.0    0   0.76   68.  989.    3 NAD-SFC NoSubs
10  1 19  19 15   73.2  0.258  1.383  0.005 1276.  315.   -20.8  0.0220  0.72  0.23   3.60  211.0  15.0  288.5   2.0    0   1.02   69.  989.    4 NAD-SFC NoSubs
10  1 19  19 16   33.6  0.304  1.077  0.005 1312.  402.   -73.7  0.0220  0.72  0.30   4.60  233.0  15.0  287.4   2.0    0   0.51   77.  989.    3 NAD-SFC NoSubs
10  1 19  19 17  -14.1  0.269 -9.000 -9.000 -999.  336.   122.6  0.0220  0.72  0.49   4.60  234.0  15.0  286.5   2.0    0   0.00   80.  990.    3 NAD-SFC NoSubs
10  1 19  19 18  -24.5  0.235 -9.000 -9.000 -999.  274.    47.0  0.0220  0.72  1.00   4.10  218.0  15.0  286.2   2.0    0   0.00   79.  991.    3 NAD-SFC NoSubs
10  1 19  19 19  -15.4  0.175 -9.000 -9.000 -999.  176.    30.6  0.0220  0.72  1.00   3.10  210.0  15.0  286.0   2.0    0   0.00   78.  992.    3 NAD-SFC NoSubs
10  1 19  19 20  -15.4  0.175 -9.000 -9.000 -999.  175.    30.5  0.0220  0.72  1.00   3.10  204.0  15.0  285.5   2.0    0   0.00   79.  993.    3 NAD-SFC NoSubs
10  1 19  19 21  -15.5  0.175 -9.000 -9.000 -999.  175.    30.5  0.0220  0.72  1.00   3.10  207.0  15.0  284.8   2.0    0   0.00   82.  994.    3 NAD-SFC NoSubs
10  1 19  19 22  -10.7  0.144 -9.000 -9.000 -999.  132.    24.8  0.0220  0.72  1.00   2.60  221.0  15.0  284.2   2.0    0   0.00   84.  994.    3 NAD-SFC NoSubs
10  1 19  19 23   -3.7  0.087 -9.000 -9.000 -999.   62.    15.8  0.0240  0.72  1.00   1.50  168.0  15.0  283.8   2.0    0   0.00   85.  994.    4 NAD-SFC NoSubs
10  1 19  19 24  -22.1  0.217 -9.000 -9.000 -999.  243.    41.1  0.0310  0.72  1.00   3.60  106.0  15.0  283.2   2.0    0   0.00   86.  994.    4 NAD-SFC NoSubs
10  1 20  20  1  -28.6  0.281 -9.000 -9.000 -999.  357.    68.7  0.0310  0.72  1.00   4.60   99.0  15.0  282.8   2.0    0   0.51   87.  994.    4 NAD-SFC NoSubs
10  1 20  20  2  -31.8  0.313 -9.000 -9.000 -999.  420.    85.2  0.0310  0.72  1.00   5.10  113.0  15.0  282.9   2.0    0   0.51   84.  993.    4 NAD-SFC NoSubs
10  1 20  20  3  -29.6  0.281 -9.000 -9.000 -999.  357.    66.2  0.0310  0.72  1.00   4.60  107.0  15.0  283.2   2.0    0   0.00   82.  993.    3 NAD-SFC NoSubs
10  1 20  20  4  -32.3  0.307 -9.000 -9.000 -999.  409.    79.5  0.0280  0.72  1.00   5.10  124.0  15.0  283.6   2.0    0   0.00   78.  992.    3 NAD-SFC NoSubs
10  1 20  20  5  -31.6  0.313 -9.000 -9.000 -999.  420.    85.5  0.0310  0.72  1.00   5.10  117.0  15.0  283.8   2.0    0   0.00   75.  991.    4 NAD-SFC NoSubs
10  1 20  20  6  -34.9  0.345 -9.000 -9.000 -999.  487.   104.1  0.0280  0.72  1.00   5.70  123.0  15.0  283.6   2.0    0   0.25   73.  991.    4 NAD-SFC NoSubs
10  1 20  20  7  -43.1  0.448 -9.000 -9.000 -999.  720.   184.6  0.0310  0.72  1.00   7.20  115.0  15.0  283.5   2.0    0   0.76   76.  990.    5 NAD-SFC NoSubs
10  1 20  20  8  -43.3  0.515 -9.000 -9.000 -999.  886.   278.3  0.0310  0.72  0.59   8.20  118.0  15.0  283.8   2.0    0   0.51   77.  989.    4 NAD-SFC NoSubs
10  1 20  20  9   22.5  0.561  0.385  0.005   89. 1007.  -690.7  0.0280  0.72  0.33   8.70  120.0  15.0  284.4   2.0    0   0.25   73.  988.    4 NAD-SFC NoSubs
10  1 20  20 10   63.7  0.510  0.821  0.005  306.  877.  -183.1  0.0280  0.72  0.24   7.70  135.0  15.0  285.2   2.0    0   0.00   72.  987.    4 NAD-SFC NoSubs
10  1 20  20 11   93.9  0.427  1.145  0.005  563.  675.   -72.7  0.0280  0.72  0.21   6.20  128.0  15.0  286.2   2.0    0   0.00   71.  986.    4 NAD-SFC NoSubs
10  1 20  20 12  110.4  0.430  1.378  0.005  834.  677.   -63.2  0.0280  0.72  0.20   6.20  136.0  15.0  287.1   2.0    0   0.00   70.  985.    4 NAD-SFC NoSubs
10  1 20  20 13  113.4  0.431  1.524  0.005 1097.  678.   -61.8  0.0280  0.72  0.20   6.20  143.0  15.0  287.8   2.0    0   0.00   71.  984.    3 NAD-SFC NoSubs
10  1 20  20 14  100.9  0.389  1.573  0.005 1355.  585.   -51.3  0.0240  0.72  0.21   5.70  150.0  15.0  288.1   2.0    0   0.00   72.  983.    3 NAD-SFC NoSubs
10  1 20  20 15   74.0  0.379  1.546  0.005 1753.  560.   -64.5  0.0220  0.72  0.23   5.70  182.0  15.0  288.1   2.0    0   0.00   75.  983.    3 NAD-SFC NoSubs
10  1 20  20 16   35.1  0.333  1.216  0.005 1796.  463.   -92.4  0.0220  0.72  0.30   5.10  193.0  15.0  286.5   2.0    0   1.02   78.  983.    4 NAD-SFC NoSubs
10  1 20  20 17  -11.6  0.270 -9.000 -9.000 -999.  339.   149.8  0.0220  0.72  0.49   4.60  211.0  15.0  286.0   2.0    0   1.27   82.  983.    4 NAD-SFC NoSubs
10  1 20  20 18  -23.5  0.236 -9.000 -9.000 -999.  275.    48.8  0.0220  0.72  1.00   4.10  219.0  15.0  285.6   2.0    0   1.02   85.  984.    4 NAD-SFC NoSubs
10  1 20  20 19  -27.6  0.265 -9.000 -9.000 -999.  328.    59.6  0.0220  0.72  1.00   4.60  207.0  15.0  285.2   2.0    0   0.25   88.  985.    3 NAD-SFC NoSubs
10  1 20  20 20  -27.6  0.265 -9.000 -9.000 -999.  328.    59.6  0.0220  0.72  1.00   4.60  215.0  15.0  284.9   2.0    0   0.00   90.  985.    3 NAD-SFC NoSubs
10  1 20  20 21  -24.5  0.235 -9.000 -9.000 -999.  274.    46.8  0.0220  0.72  1.00   4.10  199.0  15.0  284.8   2.0    0   0.00   89.  986.    3 NAD-SFC NoSubs
10  1 20  20 22  -10.9  0.146 -9.000 -9.000 -999.  137.    25.4  0.0240  0.72  1.00   2.60  174.0  15.0  284.8   2.0    0   0.00   87.  986.    3 NAD-SFC NoSubs
10  1 20  20 23  -16.7  0.185 -9.000 -9.000 -999.  191.    33.2  0.0310  0.72  1.00   3.10   99.0  15.0  284.8   2.0    0   0.00   85.  986.    3 NAD-SFC NoSubs
10  1 20  20 24  -23.6  0.227 -9.000 -9.000 -999.  259.    43.3  0.0400  0.72  1.00   3.60   88.0  15.0  284.2   2.0    0   0.00   85.  986.    3 NAD-SFC NoSubs
10  1 21  21  1  -22.8  0.227 -9.000 -9.000 -999.  259.    45.0  0.0400  0.72  1.00   3.60   79.0  15.0  283.8   2.0    0   0.25   86.  985.    4 NAD-SFC NoSubs
10  1 21  21  2  -22.8  0.227 -9.000 -9.000 -999.  259.    45.0  0.0400  0.72  1.00   3.60   70.0  15.0  283.6   2.0    0   0.51   84.  984.    4 NAD-SFC NoSubs
10  1 21  21  3  -28.5  0.285 -9.000 -9.000 -999.  364.    70.7  0.0650  0.72  1.00   4.10   59.0  15.0  283.8   2.0    0   0.51   80.  982.    4 NAD-SFC NoSubs
10  1 21  21  4  -17.5  0.193 -9.000 -9.000 -999.  208.    36.2  0.0400  0.72  1.00   3.10   60.0  15.0  283.8   2.0    0   0.25   78.  981.    4 NAD-SFC NoSubs
10  1 21  21  5   -2.5  0.081 -9.000 -9.000 -999.   65.    18.8  0.0650  0.72  1.00   1.00   57.0  15.0  283.8   2.0    0   0.00   78.  980.    4 NAD-SFC NoSubs
10  1 21  21  6   -3.6  0.087 -9.000 -9.000 -999.   62.    15.8  0.0240  0.72  1.00   1.50  171.0  15.0  283.5   2.0    0   0.00   81.  979.    4 NAD-SFC NoSubs
10  1 21  21  7   -6.1  0.116 -9.000 -9.000 -999.   94.    22.1  0.0220  0.72  1.00   2.10  189.0  15.0  283.1   2.0    0   0.51   89.  978.    7 NAD-SFC NoSubs
10  1 21  21  8   -0.8  0.060 -9.000 -9.000 -999.   36.    24.9  0.0800  0.72  0.59   0.50  327.0  15.0  283.0   2.0    0   1.27   93.  977.    7 NAD-SFC NoSubs
10  1 21  21  9   23.0  0.074  0.378  0.005   81.   48.    -1.5  0.0960  0.72  0.33   0.50   15.0  15.0  283.2   2.0    0   1.02   93.  975.    5 NAD-SFC NoSubs
10  1 21  21 10   62.7  0.065  0.859  0.005  351.   40.    -1.0  0.0240  0.72  0.24   0.50  160.0  15.0  284.1   2.0    0   0.25   91.  974.    5 NAD-SFC NoSubs
10  1 21  21 11   91.8  0.068  1.278  0.005  790.   42.    -1.0  0.0220  0.72  0.21   0.50  192.0  15.0  285.1   2.0    0   0.00   87.  973.    5 NAD-SFC NoSubs
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10  1 21  21 12  101.5  0.108  1.413  0.005  964.   85.     -1.1  0.0240  0.72  0.20  1.00  155.0  15.0  286.4  2.0  0  0.00   81.  972.    6 NAD-SFC NoSubs
10  1 21  21 13   92.9  0.072  1.444  0.005 1124.   46.     -1.0  0.0310  0.72  0.20  0.50   99.0  15.0  287.1  2.0  0  0.51   78.  971.    7 NAD-SFC NoSubs
10  1 21  21 14   68.9  0.068  1.347  0.005 1230.   43.     -1.0  0.0280  0.72  0.21  0.50  146.0  15.0  287.4  2.0  0  1.52   76.  971.    8 NAD-SFC NoSubs
10  1 21  21 15   15.4  0.294  0.822  0.005 1250.  382.   -142.8  0.0420  0.72  0.23  4.10  290.0  15.0  286.6  2.0  0  1.78   80.  972.   10 NAD-SFC NoSubs
10  1 21  21 16   30.2  0.336  1.039  0.005 1287.  468.   -108.9  0.0800  0.72  0.29  4.10  308.0  15.0  284.4  2.0  0  1.02   89.  972.    7 NAD-SFC NoSubs
10  1 21  21 17   -2.5  0.092 -9.000 -9.000 -999.  164.     27.1  0.0420  0.72  0.48  1.50  278.0  15.0  283.6  2.0  0  1.02   89.  972.   10 NAD-SFC NoSubs
10  1 21  21 18   -7.1  0.122 -9.000 -9.000 -999.  102.     22.2  0.0310  0.72  1.00  2.10  114.0  15.0  283.2  2.0  0  1.52   91.  974.    5 NAD-SFC NoSubs
10  1 21  21 19   -6.9  0.120 -9.000 -9.000 -999.   99.     21.6  0.0280  0.72  1.00  2.10  136.0  15.0  283.4  2.0  0  0.00   89.  975.    5 NAD-SFC NoSubs
10  1 21  21 20   -3.4  0.086 -9.000 -9.000 -999.   60.     16.2  0.0240  0.72  1.00  1.50  169.0  15.0  283.5  2.0  0  0.00   87.  977.    6 NAD-SFC NoSubs
10  1 21  21 21   -2.5  0.082 -9.000 -9.000 -999.   57.     19.3  0.0220  0.72  1.00  1.50  206.0  15.0  283.2  2.0  0  0.51   87.  978.   10 NAD-SFC NoSubs
10  1 21  21 22   -6.1  0.116 -9.000 -9.000 -999.   94.     22.1  0.0220  0.72  1.00  2.10  217.0  15.0  282.9  2.0  0  0.76   88.  979.    7 NAD-SFC NoSubs
10  1 21  21 23   -6.7  0.115 -9.000 -9.000 -999.   94.     19.9  0.0220  0.72  1.00  2.10  208.0  15.0  282.9  2.0  0  0.25   87.  980.    4 NAD-SFC NoSubs
10  1 21  21 24  -10.4  0.144 -9.000 -9.000 -999.  132.     25.3  0.0220  0.72  1.00  2.60  229.0  15.0  282.9  2.0  0  0.00   84.  981.    4 NAD-SFC NoSubs
10  1 22  22  1  -10.2  0.142 -9.000 -9.000 -999.  129.     24.7  0.0200  0.72  1.00  2.60  252.0  15.0  282.8  2.0  0  0.00   82.  983.    4 NAD-SFC NoSubs
10  1 22  22  2   -4.2  0.094 -9.000 -9.000 -999.   70.     17.6  0.0420  0.72  1.00  1.50  271.0  15.0  282.5  2.0  0  0.00   81.  984.    4 NAD-SFC NoSubs
10  1 22  22  3   -2.6  0.083 -9.000 -9.000 -999.   58.     19.3  0.0800  0.72  1.00  1.00  300.0  15.0  282.4  2.0  0  0.00   81.  985.    4 NAD-SFC NoSubs
10  1 22  22  4   -2.3  0.077 -9.000 -9.000 -999.   51.     17.7  0.0400  0.72  1.00  1.00   84.0  15.0  282.2  2.0  0  0.00   82.  986.    4 NAD-SFC NoSubs
10  1 22  22  5   -7.4  0.122 -9.000 -9.000 -999.  102.     21.6  0.0310  0.72  1.00  2.10  115.0  15.0  282.2  2.0  0  0.00   84.  987.    4 NAD-SFC NoSubs
10  1 22  22  6  -11.4  0.153 -9.000 -9.000 -999.  143.     27.5  0.0310  0.72  1.00  2.60  112.0  15.0  282.1  2.0  0  0.00   85.  987.    4 NAD-SFC NoSubs
10  1 22  22  7  -22.0  0.217 -9.000 -9.000 -999.  243.     40.9  0.0310  0.72  1.00  3.60  107.0  15.0  281.9  2.0  0  1.02   86.  988.    4 NAD-SFC NoSubs
10  1 22  22  8  -17.9  0.215 -9.000 -9.000 -999.  239.     48.7  0.0280  0.72  0.58  3.60  122.0  15.0  281.8  2.0  0  1.78   86.  989.    4 NAD-SFC NoSubs
10  1 22  22  9   23.3  0.224  0.478  0.005  165.  255.    -42.7  0.0310  0.72  0.33  3.10  118.0  15.0  282.0  2.0  0  1.02   83.  990.    5 NAD-SFC NoSubs
10  1 22  22 10   64.5  0.206  0.932  0.005  443.  224.    -11.9  0.0280  0.72  0.24  2.60  124.0  15.0  283.0  2.0  0  1.27   77.  990.    4 NAD-SFC NoSubs
10  1 22  22 11   94.9  0.212  1.236  0.005  705.  235.     -8.9  0.0280  0.72  0.21  2.60  128.0  15.0  284.2  2.0  0  0.25   67.  991.    4 NAD-SFC NoSubs
10  1 22  22 12  112.3  0.111  1.496  0.005 1054.   94.     -1.1  0.0280  0.72  0.20  1.00  123.0  15.0  284.8  2.0  0  0.25   62.  990.    3 NAD-SFC NoSubs
10  1 22  22 13  114.6  0.071  1.575  0.005 1206.   45.     -1.0  0.0240  0.72  0.20  0.50  157.0  15.0  285.2  2.0  0  0.00   59.  990.    3 NAD-SFC NoSubs
10  1 22  22 14  102.2 -9.000 -9.000 -9.000 1327. -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0  285.8  2.0  0  0.00   57.  990.    3 NAD-SFC NoSubs
10  1 22  22 15   75.3  0.074  1.449  0.005 1426.   48.     -1.0  0.0420  0.72  0.23  0.50  275.0  15.0  285.8  2.0  0  0.00   59.  990.    4 NAD-SFC NoSubs
10  1 22  22 16   34.7  0.240  1.130  0.005 1468.  283.    -35.3  0.0420  0.72  0.29  3.10  274.0  15.0  284.9  2.0  0  1.02   67.  990.    6 NAD-SFC NoSubs
10  1 22  22 17   -2.0  0.083 -9.000 -9.000 -999.   85.     25.9  0.0220  0.72  0.48  1.50  199.0  15.0  283.2  2.0  0  2.03   81.  991.    5 NAD-SFC NoSubs
10  1 22  22 18   -7.2  0.120 -9.000 -9.000 -999.   99.     21.1  0.0280  0.72  1.00  2.10  146.0  15.0  283.1  2.0  0  0.25   82.  992.    4 NAD-SFC NoSubs
10  1 22  22 19  -10.8  0.146 -9.000 -9.000 -999.  135.     25.8  0.0240  0.72  1.00  2.60  165.0  15.0  282.9  2.0  0  0.76   81.  993.    4 NAD-SFC NoSubs
10  1 22  22 20  -10.6  0.144 -9.000 -9.000 -999.  132.     25.2  0.0220  0.72  1.00  2.60  187.0  15.0  282.4  2.0  0  0.25   80.  993.    4 NAD-SFC NoSubs
10  1 22  22 21  -15.3  0.175 -9.000 -9.000 -999.  175.     31.0  0.0220  0.72  1.00  3.10  230.0  15.0  281.4  2.0  0  0.00   84.  994.    4 NAD-SFC NoSubs
10  1 22  22 22  -19.8  0.202 -9.000 -9.000 -999.  218.     37.2  0.0200  0.72  1.00  3.60  255.0  15.0  280.4  2.0  0  0.00   88.  995.    5 NAD-SFC NoSubs
10  1 22  22 23  -27.0  0.262 -9.000 -9.000 -999.  321.     58.9  0.0200  0.72  1.00  4.60  261.0  15.0  279.6  2.0  0  0.00   91.  996.    4 NAD-SFC NoSubs
10  1 22  22 24  -34.1  0.329 -9.000 -9.000 -999.  454.     93.3  0.0420  0.72  1.00  5.10  283.0  15.0  279.1  2.0  0  0.00   92.  997.    4 NAD-SFC NoSubs
10  1 23  23  1  -34.2  0.329 -9.000 -9.000 -999.  454.     93.2  0.0420  0.72  1.00  5.10  290.0  15.0  278.8  2.0  0  0.00   94.  998.    4 NAD-SFC NoSubs
10  1 23  23  2  -29.3  0.296 -9.000 -9.000 -999.  387.     79.0  0.0420  0.72  1.00  4.60  297.0  15.0  278.2  2.0  0  0.00   96. 1000.    5 NAD-SFC NoSubs
10  1 23  23  3  -25.5  0.298 -9.000 -9.000 -999.  390.     92.3  0.0800  0.72  1.00  4.10  310.0  15.0  277.8  2.0  0  0.00  100. 1001.    7 NAD-SFC NoSubs
10  1 23  23  4  -25.0  0.269 -9.000 -9.000 -999.  335.     69.2  0.0950  0.72  1.00  3.60  330.0  15.0  277.5  2.0  0  0.00  100. 1002.    6 NAD-SFC NoSubs
10  1 23  23  5  -14.6  0.183 -9.000 -9.000 -999.  191.     37.9  0.0800  0.72  1.00  2.60  319.0  15.0  277.9  2.0  0  0.00   99. 1003.    6 NAD-SFC NoSubs
10  1 23  23  6  -11.6  0.163 -9.000 -9.000 -999.  157.     33.1  0.0420  0.72  1.00  2.60  291.0  15.0  278.0  2.0  0  0.00   98. 1004.    7 NAD-SFC NoSubs
10  1 23  23  7  -12.1  0.162 -9.000 -9.000 -999.  156.     31.5  0.0420  0.72  1.00  2.60  289.0  15.0  277.8  2.0  0  0.00   99. 1005.    6 NAD-SFC NoSubs
10  1 23  23  8   -3.5  0.092 -9.000 -9.000 -999.   68.     19.6  0.0420  0.72  0.58  1.50  277.0  15.0  277.4  2.0  0  0.00  100. 1006.    6 NAD-SFC NoSubs
10  1 23  23  9   22.3  0.111  0.409  0.006  110.   89.     -5.5  0.0800  0.72  0.32  1.00  325.0  15.0  278.5  2.0  0  0.00   94. 1007.    6 NAD-SFC NoSubs
10  1 23  23 10   63.3  0.081  0.784  0.005  273.   55.     -1.0  0.0800  0.72  0.24  0.50  329.0  15.0  280.4  2.0  0  0.00   76. 1008.    5 NAD-SFC NoSubs
10  1 23  23 11   95.1 -9.000 -9.000 -9.000  441. -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0  281.8  2.0  0  0.00   67. 1008.    4 NAD-SFC NoSubs
10  1 23  23 12  111.8 -9.000 -9.000 -9.000  640. -999. -99999.0  0.0471  0.72  0.20  0.00    0.0  15.0  282.6  2.0  0  0.00   63. 1007.    4 NAD-SFC NoSubs
10  1 23  23 13  115.0  0.088  1.368  0.005  799.   62.     -1.0  0.0800  0.72  0.20  0.50  300.0  15.0  283.2  2.0  0  0.00   60. 1007.    3 NAD-SFC NoSubs
10  1 23  23 14  102.7  0.077  1.380  0.005  920.   51.     -1.0  0.0420  0.72  0.21  0.50  299.0  15.0  283.8  2.0  0  0.00   57. 1007.    3 NAD-SFC NoSubs
10  1 23  23 15   76.0  0.166  1.289  0.005 1012.  163.     -5.4  0.0800  0.72  0.23  1.50  300.0  15.0  284.0  2.0  0  0.00   56. 1007.    3 NAD-SFC NoSubs
10  1 23  23 16   35.2  0.197  1.013  0.005 1061.  210.    -19.6  0.0800  0.72  0.29  2.10  313.0  15.0  283.9  2.0  0  0.00   56. 1007.    2 NAD-SFC NoSubs
10  1 23  23 17   -7.0  0.149 -9.000 -9.000 -999.  139.     43.0  0.0800  0.72  0.47  2.10  322.0  15.0  283.5  2.0  0  0.00   60. 1007.    2 NAD-SFC NoSubs
10  1 23  23 18  -16.7  0.189 -9.000 -9.000 -999.  197.     36.3  0.0950  0.72  1.00  2.60  345.0  15.0  282.6  2.0  0  0.00   63. 1008.    2 NAD-SFC NoSubs
10  1 23  23 19  -10.7  0.150 -9.000 -9.000 -999.  140.     28.4  0.0960  0.72  1.00  2.10   14.0  15.0  281.8  2.0  0  0.00   67. 1009.    2 NAD-SFC NoSubs
10  1 23  23 20   -2.7  0.083 -9.000 -9.000 -999.   59.     19.0  0.0650  0.72  1.00  1.00   41.0  15.0  280.8  2.0  0  0.00   71. 1010.    2 NAD-SFC NoSubs
10  1 23  23 21   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0400  0.72  1.00  0.50   77.0  15.0  279.8  2.0  0  0.00   75. 1010.    2 NAD-SFC NoSubs
10  1 23  23 22   -1.0  0.068 -9.000 -9.000 -999.   42.     27.0  0.0310  0.72  1.00  0.50   97.0  15.0  278.9  2.0  0  0.00   79. 1011.    2 NAD-SFC NoSubs
10  1 23  23 23   -1.0  0.068 -9.000 -9.000 -999.   42.     27.0  0.0310  0.72  1.00  0.50   97.0  15.0  278.1  2.0  0  0.00   83. 1011.    2 NAD-SFC NoSubs
10  1 23  23 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  277.4  2.0  0  0.00   87. 1012.    2 NAD-SFC NoSubs
10  1 24  24  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  276.8  2.0  0  0.00   90. 1012.    2 NAD-SFC NoSubs
10  1 24  24  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  276.2  2.0  0  0.00   92. 1012.    2 NAD-SFC NoSubs
10  1 24  24  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  275.8  2.0  0  0.00   94. 1012.    2 NAD-SFC NoSubs
10  1 24  24  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  275.4  2.0  0  0.00   95. 1013.    2 NAD-SFC NoSubs
10  1 24  24  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  275.0  2.0  0  0.00   96. 1013.    2 NAD-SFC NoSubs
10  1 24  24  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  274.8  2.0  0  0.00   97. 1013.    2 NAD-SFC NoSubs
10  1 24  24  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  274.4  2.0  0  0.00   97. 1013.    2 NAD-SFC NoSubs
10  1 24  24  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.58  0.00    0.0  15.0  274.0  2.0  0  0.00   98. 1013.    2 NAD-SFC NoSubs
10  1 24  24  9   20.7 -9.000 -9.000 -9.000   64. -999. -99999.0  0.0471  0.72  0.32  0.00    0.0  15.0  276.1  2.0  0  0.00   89. 1013.    2 NAD-SFC NoSubs
10  1 24  24 10   64.0 -9.000 -9.000 -9.000  209. -999. -99999.0  0.0471  0.72  0.24  0.00    0.0  15.0  279.2  2.0  0  0.00   73. 1013.    2 NAD-SFC NoSubs
10  1 24  24 11   95.5 -9.000 -9.000 -9.000  436. -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0  281.4  2.0  0  0.00   60. 1013.    2 NAD-SFC NoSubs
10  1 24  24 12  112.9  0.088  1.272  0.007  658.   62.     -1.0  0.0800  0.72  0.20  0.50  328.0  15.0  282.8  2.0  0  0.00   51. 1012.    2 NAD-SFC NoSubs
10  1 24  24 13  115.5  0.091  1.351  0.007  770.   66.     -1.0  0.0950  0.72  0.20  0.50  339.0  15.0  283.9  2.0  0  0.00   46. 1011.    2 NAD-SFC NoSubs
10  1 24  24 14  103.1  0.136  1.349  0.008  858.  121.     -2.2  0.0950  0.72  0.21  1.00  337.0  15.0  284.5  2.0  0  0.00   43. 1010.    2 NAD-SFC NoSubs
10  1 24  24 15   76.2  0.172  1.247  0.008  918.  171.     -6.0  0.0950  0.72  0.23  1.50  343.0  15.0  284.8  2.0  0  0.00   42. 1010.    2 NAD-SFC NoSubs
10  1 24  24 16   36.4  0.159  0.984  0.008  944.  153.    -10.0  0.0950  0.72  0.29  1.50  348.0  15.0  284.4  2.0  0  0.00   47. 1010.    2 NAD-SFC NoSubs
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10  1 24  24 17   -3.5  0.108 -9.000 -9.000 -999.   86.     32.4  0.0960  0.72  0.46  1.50   8.0  15.0 283.9  2.0   0  0.00  50. 1010.   2 NAD-SFC NoSubs
10  1 24  24 18   -3.0  0.087 -9.000 -9.000 -999.   61.     20.0  0.0960  0.72  1.00  1.00  12.0  15.0 283.5  2.0   0  0.00  53. 1010.   2 NAD-SFC NoSubs
10  1 24  24 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 283.1  2.0   0  0.00  56. 1010.   3 NAD-SFC NoSubs
10  1 24  24 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 282.6  2.0   0  0.00  60. 1011.   3 NAD-SFC NoSubs
10  1 24  24 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 282.2  2.0   0  0.00  63. 1011.   3 NAD-SFC NoSubs
10  1 24  24 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 282.0  2.0   0  0.00  65. 1011.   3 NAD-SFC NoSubs
10  1 24  24 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 281.8  2.0   0  0.00  68. 1011.   3 NAD-SFC NoSubs
10  1 24  24 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 281.5  2.0   0  0.00  69. 1011.   4 NAD-SFC NoSubs
10  1 25  25  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 281.2  2.0   0  0.00  70. 1010.   4 NAD-SFC NoSubs
10  1 25  25  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 280.9  2.0   0  0.00  72. 1010.   4 NAD-SFC NoSubs
10  1 25  25  3   -1.0  0.067 -9.000 -9.000 -999.   42.     26.9  0.0400  0.72  1.00  0.50  64.0  15.0 280.5  2.0   0  0.00  73. 1009.   4 NAD-SFC NoSubs
10  1 25  25  4   -1.1  0.070 -9.000 -9.000 -999.   45.     28.2  0.0650  0.72  1.00  0.50  55.0  15.0 280.0  2.0   0  0.00  75. 1009.   4 NAD-SFC NoSubs
10  1 25  25  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 279.8  2.0   0  0.00  76. 1008.   4 NAD-SFC NoSubs
10  1 25  25  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 279.4  2.0   0  0.00  77. 1008.   4 NAD-SFC NoSubs
10  1 25  25  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 279.2  2.0   0  0.00  78. 1008.   4 NAD-SFC NoSubs
10  1 25  25  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.57  0.00   0.0  15.0 279.4  2.0   0  0.00  77. 1008.   4 NAD-SFC NoSubs
10  1 25  25  9   24.4 -9.000 -9.000 -9.000   84. -999. -99999.0  0.0471  0.72  0.32  0.00   0.0  15.0 279.6  2.0   0  0.00  77. 1008.   4 NAD-SFC NoSubs
10  1 25  25 10   64.6 -9.000 -9.000 -9.000  242. -999. -99999.0  0.0471  0.72  0.24  0.00   0.0  15.0 279.8  2.0   0  0.76  79. 1008.   5 NAD-SFC NoSubs
10  1 25  25 11   79.1  0.148  0.922  0.007  356.  137.     -3.7  0.0400  0.72  0.21  1.50  61.0  15.0 280.2  2.0   0  1.27  77. 1008.   7 NAD-SFC NoSubs
10  1 25  25 12   92.7  0.207  1.060  0.007  462.  226.     -8.6  0.0650  0.72  0.20  2.10  48.0  15.0 281.4  2.0   0  0.00  75. 1007.   7 NAD-SFC NoSubs
10  1 25  25 13   94.7  0.126  1.133  0.006  551.  110.     -1.9  0.0650  0.72  0.20  1.00  33.0  15.0 282.2  2.0   0  0.00  74. 1006.   7 NAD-SFC NoSubs
10  1 25  25 14   22.1  0.071  0.706  0.006  570.   46.     -1.4  0.0800  0.72  0.20  0.50 302.0  15.0 282.2  2.0   0  0.00  76. 1006.  10 NAD-SFC NoSubs
10  1 25  25 15   15.3  0.143  0.629  0.006  582.  130.    -17.0  0.0800  0.72  0.23  1.50 312.0  15.0 281.9  2.0   0  0.51  83. 1006.  10 NAD-SFC NoSubs
10  1 25  25 16    5.5  0.086  0.449  0.006  588.   61.    -10.4  0.0400  0.72  0.28  1.00  60.0  15.0 282.8  2.0   0  1.02  90. 1005.  10 NAD-SFC NoSubs
10  1 25  25 17   -5.4  0.145 -9.000 -9.000 -999.  132.     50.5  0.0650  0.72  0.46  2.10  56.0  15.0 282.5  2.0   0  1.27  93. 1005.  10 NAD-SFC NoSubs
10  1 25  25 18   -9.2  0.164 -9.000 -9.000 -999.  159.     42.9  0.0400  0.72  1.00  2.60  71.0  15.0 282.5  2.0   0  1.02  94. 1005.  10 NAD-SFC NoSubs
10  1 25  25 19   -9.2  0.164 -9.000 -9.000 -999.  159.     42.9  0.0400  0.72  1.00  2.60  81.0  15.0 282.8  2.0   0  0.51  94. 1005.  10 NAD-SFC NoSubs
10  1 25  25 20   -1.4  0.064 -9.000 -9.000 -999.   46.     16.9  0.0400  0.72  1.00  1.00  80.0  15.0 283.1  2.0   0  0.51  93. 1006.  10 NAD-SFC NoSubs
10  1 25  25 21   -0.5  0.050 -9.000 -9.000 -999.   27.     21.1  0.0280  0.72  1.00  0.50 148.0  15.0 283.4  2.0   0  0.51  94. 1006.  10 NAD-SFC NoSubs
10  1 25  25 22   -0.5  0.049 -9.000 -9.000 -999.   26.     20.6  0.0220  0.72  1.00  0.50 180.0  15.0 283.5  2.0   0  1.02  95. 1006.  10 NAD-SFC NoSubs
10  1 25  25 23   -0.5  0.050 -9.000 -9.000 -999.   27.     21.1  0.0280  0.72  1.00  0.50 137.0  15.0 283.8  2.0   0  0.76  95. 1006.  10 NAD-SFC NoSubs
10  1 25  25 24   -1.3  0.062 -9.000 -9.000 -999.   37.     15.9  0.0280  0.72  1.00  1.00 120.0  15.0 283.8  2.0   0  0.51  95. 1006.  10 NAD-SFC NoSubs
10  1 26  26  1   -1.3  0.062 -9.000 -9.000 -999.   37.     15.9  0.0280  0.72  1.00  1.00 122.0  15.0 284.0  2.0   0  0.00  93. 1005.  10 NAD-SFC NoSubs
10  1 26  26  2   -1.3  0.062 -9.000 -9.000 -999.   37.     16.2  0.0310  0.72  1.00  1.00 115.0  15.0 284.2  2.0   0  0.00  92. 1005.  10 NAD-SFC NoSubs
10  1 26  26  3   -3.0  0.091 -9.000 -9.000 -999.   66.     22.3  0.0400  0.72  1.00  1.50  88.0  15.0 284.5  2.0   0  0.00  90. 1005.  10 NAD-SFC NoSubs
10  1 26  26  4   -3.0  0.091 -9.000 -9.000 -999.   66.     22.3  0.0400  0.72  1.00  1.50  78.0  15.0 284.6  2.0   0  0.00  90. 1005.  10 NAD-SFC NoSubs
10  1 26  26  5   -1.7  0.068 -9.000 -9.000 -999.   42.     16.3  0.0310  0.72  1.00  1.00  94.0  15.0 284.6  2.0   0  0.00  90. 1004.   8 NAD-SFC NoSubs
10  1 26  26  6   -2.0  0.072 -9.000 -9.000 -999.   46.     16.7  0.0310  0.72  1.00  1.00 106.0  15.0 284.8  2.0   0  0.00  89. 1004.   6 NAD-SFC NoSubs
10  1 26  26  7   -0.8  0.061 -9.000 -9.000 -999.   36.     24.5  0.0240  0.72  1.00  0.50 153.0  15.0 284.8  2.0   0  0.00  89. 1004.   6 NAD-SFC NoSubs
10  1 26  26  8   11.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.57  0.00   0.0  15.0 284.8  2.0   0  0.00  90. 1004.   7 NAD-SFC NoSubs
10  1 26  26  9   22.7  0.068  0.541  0.005  249.   43.     -1.3  0.0650  0.72  0.32  0.50  33.0  15.0 284.9  2.0   0  0.00  89. 1004.   7 NAD-SFC NoSubs
10  1 26  26 10   13.6  0.055  0.524  0.006  378.   31.     -1.1  0.0280  0.72  0.24  0.50 144.0  15.0 286.0  2.0   0  0.00  83. 1003.  10 NAD-SFC NoSubs
10  1 26  26 11   81.0  0.135  1.050  0.005  512.  120.     -2.7  0.0220  0.72  0.21  1.50 202.0  15.0 285.8  2.0   0  1.27  89. 1003.   7 NAD-SFC NoSubs
10  1 26  26 12   25.7 -9.000 -9.000 -9.000  545. -999. -99999.0  0.0471  0.72  0.20  0.00   0.0  15.0 285.6  2.0   0  1.78  92. 1002.  10 NAD-SFC NoSubs
10  1 26  26 13   26.3  0.150  0.752  0.005  578.  139.    -11.4  0.0800  0.72  0.20  1.50 316.0  15.0 285.8  2.0   0  1.27  93. 1002.  10 NAD-SFC NoSubs
10  1 26  26 14   23.2  0.226  0.733  0.005  605.  258.    -44.3  0.0800  0.72  0.20  2.60 322.0  15.0 285.8  2.0   0  1.02  95. 1001.  10 NAD-SFC NoSubs
10  1 26  26 15   16.4  0.292  0.659  0.005  623.  379.   -135.7  0.0800  0.72  0.22  3.60 326.0  15.0 285.4  2.0   0  1.02  98. 1001.  10 NAD-SFC NoSubs
10  1 26  26 16    6.4  0.255  0.483  0.005  630.  310.   -232.4  0.0950  0.72  0.28  3.10 340.0  15.0 285.2  2.0   0  1.52  97. 1001.  10 NAD-SFC NoSubs
10  1 26  26 17   -8.0  0.235 -9.000 -9.000 -999.  274.    146.2  0.0960  0.72  0.45  3.10  15.0  15.0 285.2  2.0   0  1.78  96. 1001.  10 NAD-SFC NoSubs
10  1 26  26 18  -11.9  0.215 -9.000 -9.000 -999.  240.     75.0  0.0650  0.72  1.00  3.10  31.0  15.0 285.2  2.0   0  1.52  95. 1002.  10 NAD-SFC NoSubs
10  1 26  26 19  -13.9  0.252 -9.000 -9.000 -999.  303.    102.4  0.0650  0.72  1.00  3.60  54.0  15.0 285.2  2.0   0  0.76  94. 1002.  10 NAD-SFC NoSubs
10  1 26  26 20  -16.0  0.288 -9.000 -9.000 -999.  371.    134.2  0.0650  0.72  1.00  4.10  58.0  15.0 285.1  2.0   0  0.51  92. 1003.  10 NAD-SFC NoSubs
10  1 26  26 21  -12.7  0.230 -9.000 -9.000 -999.  266.     85.7  0.0400  0.72  1.00  3.60  86.0  15.0 285.2  2.0   0  0.00  87. 1003.  10 NAD-SFC NoSubs
10  1 26  26 22   -2.7  0.085 -9.000 -9.000 -999.   80.     20.5  0.0280  0.72  1.00  1.50 136.0  15.0 285.4  2.0   0  0.00  82. 1003.  10 NAD-SFC NoSubs
10  1 26  26 23   -3.9  0.107 -9.000 -9.000 -999.   84.     28.5  0.0950  0.72  1.00  1.50 354.0  15.0 285.1  2.0   0  0.00  83. 1003.  10 NAD-SFC NoSubs
10  1 26  26 24   -6.7  0.115 -9.000 -9.000 -999.   94.     20.5  0.0220  0.72  1.00  2.10 218.0  15.0 285.1  2.0   0  0.00  80. 1003.   5 NAD-SFC NoSubs
10  1 27  27  1   -2.7  0.083 -9.000 -9.000 -999.   57.     19.3  0.0800  0.72  1.00  1.00 311.0  15.0 284.8  2.0   0  0.00  80. 1004.   4 NAD-SFC NoSubs
10  1 27  27  2   -9.1  0.139 -9.000 -9.000 -999.  124.     26.3  0.0650  0.72  1.00  2.10  52.0  15.0 283.8  2.0   0  0.00  88. 1004.   4 NAD-SFC NoSubs
10  1 27  27  3  -25.6  0.248 -9.000 -9.000 -999.  297.     53.6  0.0650  0.72  1.00  3.60  41.0  15.0 282.8  2.0   0  0.00  99. 1005.   4 NAD-SFC NoSubs
10  1 27  27  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 282.8  2.0   0  0.00 100. 1005.   5 NAD-SFC NoSubs
10  1 27  27  5  -28.3  0.308 -9.000 -9.000 -999.  410.     92.5  0.0950  0.72  1.00  4.10 338.0  15.0 282.5  2.0   0  0.00 100. 1005.   6 NAD-SFC NoSubs
10  1 27  27  6  -23.9  0.259 -9.000 -9.000 -999.  318.     65.5  0.0800  0.72  1.00  3.60 311.0  15.0 281.8  2.0   0  0.00  97. 1006.   6 NAD-SFC NoSubs
10  1 27  27  7  -24.0  0.259 -9.000 -9.000 -999.  317.     65.4  0.0800  0.72  1.00  3.60 307.0  15.0 281.4  2.0   0  0.00  91. 1007.   6 NAD-SFC NoSubs
10  1 27  27  8  -19.2  0.261 -9.000 -9.000 -999.  320.     82.8  0.0800  0.72  0.56  3.60 320.0  15.0 281.4  2.0   0  0.00  85. 1007.   5 NAD-SFC NoSubs
10  1 27  27  9   26.3  0.381  0.560  0.005  239.  565.   -189.2  0.0950  0.72  0.32  4.60 331.0  15.0 282.2  2.0   0  0.00  75. 1007.   5 NAD-SFC NoSubs
10  1 27  27 10   66.7  0.360  0.863  0.006  347.  519.    -63.0  0.0950  0.72  0.24  4.10 332.0  15.0 282.6  2.0   0  0.00  69. 1008.   5 NAD-SFC NoSubs
10  1 27  27 11   99.0  0.252  1.103  0.006  487.  310.    -14.5  0.0800  0.72  0.21  2.60 323.0  15.0 283.8  2.0   0  0.00  61. 1007.   4 NAD-SFC NoSubs
10  1 27  27 12  116.0  0.175  1.263  0.005  625.  177.     -4.1  0.0800  0.72  0.20  1.50 310.0  15.0 284.9  2.0   0  0.00  56. 1007.   4 NAD-SFC NoSubs
10  1 27  27 13  118.6  0.120  1.348  0.005  741.  100.     -1.3  0.0420  0.72  0.20  1.00 296.0  15.0 285.8  2.0   0  0.00  53. 1006.   4 NAD-SFC NoSubs
10  1 27  27 14  107.6  0.119  1.357  0.005  834.   98.     -1.4  0.0420  0.72  0.20  1.00 297.0  15.0 286.6  2.0   0  0.00  50. 1006.   3 NAD-SFC NoSubs
10  1 27  27 15   80.1  0.128  1.260  0.005  896.  110.     -2.4  0.0800  0.72  0.22  1.00 314.0  15.0 286.9  2.0   0  0.00  48. 1006.   2 NAD-SFC NoSubs
10  1 27  27 16   40.3  0.156  1.014  0.005  927.  148.     -8.5  0.0800  0.72  0.28  1.50 316.0  15.0 286.9  2.0   0  0.00  48. 1005.   2 NAD-SFC NoSubs
10  1 27  27 17   -2.8  0.106 -9.000 -9.000 -999.   83.     38.2  0.0800  0.72  0.45  1.50 328.0  15.0 286.4  2.0   0  0.00  53. 1006.   2 NAD-SFC NoSubs
10  1 27  27 18   -2.9  0.086 -9.000 -9.000 -999.   60.     19.8  0.0950  0.72  1.00  1.00 341.0  15.0 285.4  2.0   0  0.00  60. 1006.   3 NAD-SFC NoSubs
10  1 27  27 19   -0.9  0.065 -9.000 -9.000 -999.   40.     26.0  0.0240  0.72  1.00  0.50 156.0  15.0 284.1  2.0   0  0.00  68. 1007.   3 NAD-SFC NoSubs
10  1 27  27 20   -7.2  0.117 -9.000 -9.000 -999.   96.     19.9  0.0240  0.72  1.00  2.10 156.0  15.0 282.8  2.0   0  0.00  77. 1007.   3 NAD-SFC NoSubs
10  1 27  27 21  -11.1  0.146 -9.000 -9.000 -999.  134.     25.2  0.0240  0.72  1.00  2.60 158.0  15.0 281.9  2.0   0  0.00  83. 1007.   3 NAD-SFC NoSubs
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10  1 27  27 22   -7.2  0.117 -9.000 -9.000 -999.   96.     19.8  0.0240  0.72  1.00   2.10  151.0  15.0  281.2   2.0    0   0.00   86.  1008.     3 NAD-SFC NoSubs
10  1 27  27 23   -3.9  0.088 -9.000 -9.000 -999.   62.     15.7  0.0240  0.72  1.00   1.50  156.0  15.0  280.8   2.0    0   0.00   87.  1008.     3 NAD-SFC NoSubs
10  1 27  27 24   -2.1  0.074 -9.000 -9.000 -999.   48.     16.7  0.0220  0.72  1.00   1.00  186.0  15.0  280.2   2.0    0   0.00   87.  1008.     3 NAD-SFC NoSubs
10  1 28  28  1   -2.1  0.073 -9.000 -9.000 -999.   47.     16.5  0.0200  0.72  1.00   1.00  247.0  15.0  279.9   2.0    0   0.00   87.  1008.     3 NAD-SFC NoSubs
10  1 28  28  2   -8.3  0.128 -9.000 -9.000 -999.  110.     22.7  0.0420  0.72  1.00   2.10  270.0  15.0  279.5   2.0    0   0.00   87.  1008.     3 NAD-SFC NoSubs
10  1 28  28  3  -10.7  0.142 -9.000 -9.000 -999.  128.     24.0  0.0200  0.72  1.00   2.60  267.0  15.0  279.1   2.0    0   0.00   87.  1008.     3 NAD-SFC NoSubs
10  1 28  28  4  -13.0  0.161 -9.000 -9.000 -999.  155.     28.9  0.0420  0.72  1.00   2.60  284.0  15.0  278.8   2.0    0   0.00   86.  1008.     3 NAD-SFC NoSubs
10  1 28  28  5  -13.0  0.161 -9.000 -9.000 -999.  155.     28.9  0.0420  0.72  1.00   2.60  272.0  15.0  278.4   2.0    0   0.00   86.  1008.     3 NAD-SFC NoSubs
10  1 28  28  6  -10.7  0.142 -9.000 -9.000 -999.  128.     23.9  0.0200  0.72  1.00   2.60  257.0  15.0  278.0   2.0    0   0.00   85.  1008.     3 NAD-SFC NoSubs
10  1 28  28  7  -10.7  0.142 -9.000 -9.000 -999.  128.     23.9  0.0200  0.72  1.00   2.60  256.0  15.0  277.8   2.0    0   0.00   83.  1009.     3 NAD-SFC NoSubs
10  1 28  28  8  -13.8  0.173 -9.000 -9.000 -999.  173.     34.0  0.0200  0.72  0.56   3.10  259.0  15.0  277.8   2.0    0   0.00   81.  1009.     3 NAD-SFC NoSubs
10  1 28  28  9   25.5  0.204  0.402  0.007   92.   221.    -30.1  0.0420  0.72  0.31   2.60  289.0  15.0  279.6   2.0    0   0.00   70.  1010.     3 NAD-SFC NoSubs
10  1 28  28 10   67.6  0.187  0.762  0.007  236.   194.     -8.7  0.0420  0.72  0.23   2.10  284.0  15.0  281.2   2.0    0   0.00   64.  1010.     2 NAD-SFC NoSubs
10  1 28  28 11   99.5  0.194  1.015  0.006  378.   205.     -6.6  0.0420  0.72  0.21   2.10  274.0  15.0  283.0   2.0    0   0.00   57.  1010.     2 NAD-SFC NoSubs
10  1 28  28 12  117.1  0.197  1.221  0.007  560.   210.     -5.9  0.0420  0.72  0.20   2.10  286.0  15.0  284.2   2.0    0   0.00   54.  1009.     2 NAD-SFC NoSubs
10  1 28  28 13  120.0  0.198  1.322  0.008  693.   211.     -5.8  0.0420  0.72  0.20   2.10  298.0  15.0  285.4   2.0    0   0.00   51.  1008.     2 NAD-SFC NoSubs
10  1 28  28 14  107.8  0.218  1.324  0.008  775.   244.     -8.6  0.0800  0.72  0.20   2.10  315.0  15.0  286.2   2.0    0   0.00   49.  1008.     2 NAD-SFC NoSubs
10  1 28  28 15   81.1  0.212  1.234  0.008  832.   235.    -10.6  0.0800  0.72  0.22   2.10  321.0  15.0  286.5   2.0    0   0.00   49.  1007.     2 NAD-SFC NoSubs
10  1 28  28 16   41.3  0.242  0.996  0.008  859.   286.    -31.0  0.0950  0.72  0.28   2.60  332.0  15.0  286.4   2.0    0   0.00   52.  1007.     2 NAD-SFC NoSubs
10  1 28  28 17   -5.4  0.196 -9.000 -9.000 -999.  210.    126.5  0.0950  0.72  0.44   2.60  341.0  15.0  285.8   2.0    0   0.00   58.  1007.     2 NAD-SFC NoSubs
10  1 28  28 18  -10.6  0.150 -9.000 -9.000 -999.  140.     28.5  0.0950  0.72  1.00   2.10  338.0  15.0  284.8   2.0    0   0.00   63.  1008.     2 NAD-SFC NoSubs
10  1 28  28 19   -2.9  0.087 -9.000 -9.000 -999.   62.     19.9  0.0950  0.72  1.00   1.00  338.0  15.0  283.8   2.0    0   0.00   68.  1008.     2 NAD-SFC NoSubs
10  1 28  28 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  282.8   2.0    0   0.00   73.  1008.     2 NAD-SFC NoSubs
10  1 28  28 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  281.9   2.0    0   0.00   78.  1009.     2 NAD-SFC NoSubs
10  1 28  28 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  281.5   2.0    0   0.00   80.  1009.     2 NAD-SFC NoSubs
10  1 28  28 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  281.2   2.0    0   0.00   81.  1009.     2 NAD-SFC NoSubs
10  1 28  28 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  281.1   2.0    0   0.00   82.  1009.     3 NAD-SFC NoSubs
10  1 29  29  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  280.9   2.0    0   0.00   83.  1009.     3 NAD-SFC NoSubs
10  1 29  29  2   -1.1  0.069 -9.000 -9.000 -999.   43.     27.4  0.0420  0.72  1.00   0.50  282.0  15.0  280.8   2.0    0   0.00   82.  1009.     3 NAD-SFC NoSubs
10  1 29  29  3   -2.4  0.078 -9.000 -9.000 -999.   53.     18.0  0.0420  0.72  1.00   1.00  285.0  15.0  280.8   2.0    0   0.00   81.  1009.     3 NAD-SFC NoSubs
10  1 29  29  4   -4.4  0.095 -9.000 -9.000 -999.   70.     17.4  0.0420  0.72  1.00   1.50  291.0  15.0  280.6   2.0    0   0.00   78.  1009.     3 NAD-SFC NoSubs
10  1 29  29  5   -2.5  0.079 -9.000 -9.000 -999.   54.     18.1  0.0420  0.72  1.00   1.00  298.0  15.0  280.4   2.0    0   0.00   77.  1009.     2 NAD-SFC NoSubs
10  1 29  29  6   -2.5  0.079 -9.000 -9.000 -999.   54.     18.1  0.0420  0.72  1.00   1.00  294.0  15.0  280.2   2.0    0   0.00   76.  1009.     2 NAD-SFC NoSubs
10  1 29  29  7   -2.5  0.079 -9.000 -9.000 -999.   54.     18.1  0.0420  0.72  1.00   1.00  293.0  15.0  280.1   2.0    0   0.00   76.  1009.     2 NAD-SFC NoSubs
10  1 29  29  8   11.9 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.55   0.00    0.0  15.0  279.9   2.0    0   0.00   76.  1010.     2 NAD-SFC NoSubs
10  1 29  29  9   26.3 -9.000 -9.000 -9.000  146. -999. -99999.0  0.0471  0.72  0.31   0.00    0.0  15.0  280.1   2.0    0   0.00   78.  1010.     3 NAD-SFC NoSubs
10  1 29  29 10   69.5 -9.000 -9.000 -9.000  296. -999. -99999.0  0.0471  0.72  0.23   0.00    0.0  15.0  280.9   2.0    0   0.00   72.  1010.     3 NAD-SFC NoSubs
10  1 29  29 11  101.1  0.089  1.073  0.008  441.   64.     -1.0  0.0950  0.72  0.21   0.50  343.0  15.0  282.0   2.0    0   0.00   64.  1010.     3 NAD-SFC NoSubs
10  1 29  29 12  118.5  0.139  1.221  0.007  554.  124.     -2.0  0.0960  0.72  0.20   1.00   20.0  15.0  282.9   2.0    0   0.00   63.  1010.     3 NAD-SFC NoSubs
10  1 29  29 13  120.0  0.074  1.293  0.007  649.   49.     -1.0  0.0310  0.72  0.20   0.50   93.0  15.0  282.9   2.0    0   0.00   66.  1010.     4 NAD-SFC NoSubs
10  1 29  29 14  108.1  0.154  1.302  0.007  736.  144.     -3.0  0.0400  0.72  0.20   1.50   81.0  15.0  282.6   2.0    0   0.25   75.  1009.     4 NAD-SFC NoSubs
10  1 29  29 15   82.1  0.179  1.221  0.007  797.  181.     -6.2  0.0280  0.72  0.22   2.10  135.0  15.0  282.8   2.0    0   0.00   78.  1008.     4 NAD-SFC NoSubs
10  1 29  29 16   43.4  0.195  1.000  0.007  828.  206.    -15.3  0.0240  0.72  0.27   2.60  174.0  15.0  282.6   2.0    0   0.00   83.  1008.     4 NAD-SFC NoSubs
10  1 29  29 17   -1.8  0.156 -9.000 -9.000 -999.  148.    189.7  0.0240  0.72  0.44   2.60  170.0  15.0  282.1   2.0    0   0.00   88.  1007.     4 NAD-SFC NoSubs
10  1 29  29 18  -10.7  0.147 -9.000 -9.000 -999.  135.     26.5  0.0240  0.72  1.00   2.60  167.0  15.0  281.9   2.0    0   0.00   91.  1008.     5 NAD-SFC NoSubs
10  1 29  29 19   -6.9  0.117 -9.000 -9.000 -999.   96.     20.8  0.0240  0.72  1.00   2.10  173.0  15.0  281.8   2.0    0   0.00   93.  1008.     5 NAD-SFC NoSubs
10  1 29  29 20   -3.6  0.086 -9.000 -9.000 -999.   61.     16.0  0.0240  0.72  1.00   1.50  177.0  15.0  281.8   2.0    0   0.00   93.  1008.     5 NAD-SFC NoSubs
10  1 29  29 21   -0.9  0.063 -9.000 -9.000 -999.   38.     25.2  0.0240  0.72  1.00   0.50  169.0  15.0  281.6   2.0    0   0.00   93.  1008.     5 NAD-SFC NoSubs
10  1 29  29 22   -1.1  0.069 -9.000 -9.000 -999.   43.     27.6  0.0650  0.72  1.00   0.50   32.0  15.0  281.5   2.0    0   0.00   94.  1008.     5 NAD-SFC NoSubs
10  1 29  29 23   -5.0  0.107 -9.000 -9.000 -999.   84.     22.1  0.0960  0.72  1.00   1.50   24.0  15.0  281.6   2.0    0   0.00   94.  1009.     6 NAD-SFC NoSubs
10  1 29  29 24  -15.4  0.191 -9.000 -9.000 -999.  200.     40.4  0.0960  0.72  1.00   2.60   18.0  15.0  281.6   2.0    0   0.00   95.  1008.     6 NAD-SFC NoSubs
10  1 30  30  1  -15.4  0.191 -9.000 -9.000 -999.  200.     40.4  0.0960  0.72  1.00   2.60   25.0  15.0  281.5   2.0    0   0.00   96.  1008.     6 NAD-SFC NoSubs
10  1 30  30  2   -9.5  0.152 -9.000 -9.000 -999.  142.     33.0  0.0960  0.72  1.00   2.10   12.0  15.0  281.2   2.0    0   0.00   97.  1008.     7 NAD-SFC NoSubs
10  1 30  30  3   -4.3  0.103 -9.000 -9.000 -999.   80.     22.8  0.0800  0.72  1.00   1.50  317.0  15.0  281.0   2.0    0   0.00  100.  1008.     8 NAD-SFC NoSubs
10  1 30  30  4   -3.1  0.091 -9.000 -9.000 -999.   66.     22.4  0.0420  0.72  1.00   1.50  283.0  15.0  280.0   2.0    0   0.00  100.  1008.    10 NAD-SFC NoSubs
10  1 30  30  5   -1.2  0.059 -9.000 -9.000 -999.   35.     15.1  0.0200  0.72  1.00   1.00  260.0  15.0  278.2   2.0    0   0.00  100.  1007.    10 NAD-SFC NoSubs
10  1 30  30  6   -1.3  0.059 -9.000 -9.000 -999.   35.     15.1  0.0200  0.72  1.00   1.00  258.0  15.0  278.2   2.0    0   0.00  100.  1008.    10 NAD-SFC NoSubs
10  1 30  30  7   -3.1  0.091 -9.000 -9.000 -999.   66.     22.4  0.0420  0.72  1.00   1.50  272.0  15.0  279.1   2.0    0   0.00  100.  1008.    10 NAD-SFC NoSubs
10  1 30  30  8   -6.1  0.131 -9.000 -9.000 -999.  114.     33.5  0.0420  0.72  0.55   2.10  295.0  15.0  279.2   2.0    0   0.00  100.  1008.     8 NAD-SFC NoSubs
10  1 30  30  9   19.1  0.145  0.341  0.007   74.   133.    -14.5  0.0800  0.72  0.31   1.50  307.0  15.0  279.1   2.0    0   0.00  100.  1008.     8 NAD-SFC NoSubs
10  1 30  30 10   57.9  0.123  0.684  0.006  199.   104.     -2.9  0.0800  0.72  0.23   1.00  322.0  15.0  279.4   2.0    0   0.00  100.  1008.     7 NAD-SFC NoSubs
10  1 30  30 11   92.4  0.088  0.973  0.005  359.   63.     -1.0  0.0950  0.72  0.21   0.50  352.0  15.0  280.1   2.0    0   0.00  100.  1008.     6 NAD-SFC NoSubs
10  1 30  30 12  114.7  0.091  1.218  0.005  567.   66.     -1.0  0.0960  0.72  0.20   0.50   19.0  15.0  281.1   2.0    0   0.00   97.  1007.     5 NAD-SFC NoSubs
10  1 30  30 13  121.0  0.085  1.368  0.005  760.   59.     -1.0  0.0650  0.72  0.20   0.50   44.0  15.0  282.2   2.0    0   0.00   92.  1006.     4 NAD-SFC NoSubs
10  1 30  30 14  109.4  0.077  1.407  0.005  914.   51.     -1.0  0.0400  0.72  0.20   0.50   70.0  15.0  283.8   2.0    0   0.00   85.  1006.     4 NAD-SFC NoSubs
10  1 30  30 15   83.8  0.081  1.331  0.005 1010.   55.     -1.0  0.0650  0.72  0.22   0.50   58.0  15.0  285.1   2.0    0   0.00   78.  1005.     4 NAD-SFC NoSubs
10  1 30  30 16   44.9  0.207  1.097  0.005 1054.  226.    -17.8  0.0950  0.72  0.27   2.10  343.0  15.0  286.5   2.0    0   0.00   70.  1005.     3 NAD-SFC NoSubs
10  1 30  30 17   -1.6  0.161 -9.000 -9.000 -999.  155.    232.3  0.0960  0.72  0.43   2.10   12.0  15.0  286.0   2.0    0   0.00   74.  1005.     3 NAD-SFC NoSubs
10  1 30  30 18   -4.8  0.101 -9.000 -9.000 -999.   78.     19.2  0.0650  0.72  1.00   1.50   41.0  15.0  285.0   2.0    0   0.00   79.  1005.     3 NAD-SFC NoSubs
10  1 30  30 19   -1.0  0.068 -9.000 -9.000 -999.   43.     27.2  0.0400  0.72  1.00   0.50   84.0  15.0  284.0   2.0    0   0.00   84.  1006.     3 NAD-SFC NoSubs
10  1 30  30 20   -1.0  0.066 -9.000 -9.000 -999.   41.     26.3  0.0280  0.72  1.00   0.50  143.0  15.0  283.0   2.0    0   0.00   90.  1006.     3 NAD-SFC NoSubs
10  1 30  30 21   -0.9  0.064 -9.000 -9.000 -999.   39.     25.7  0.0240  0.72  1.00   0.50  158.0  15.0  282.1   2.0    0   0.00   95.  1006.     4 NAD-SFC NoSubs
10  1 30  30 22   -0.9  0.064 -9.000 -9.000 -999.   39.     25.7  0.0240  0.72  1.00   0.50  161.0  15.0  281.4   2.0    0   0.00   98.  1007.     4 NAD-SFC NoSubs
10  1 30  30 23   -0.9  0.065 -9.000 -9.000 -999.   40.     25.9  0.0220  0.72  1.00   0.50  181.0  15.0  280.8   2.0    0   0.00   99.  1007.     3 NAD-SFC NoSubs
10  1 30  30 24   -0.9  0.065 -9.000 -9.000 -999.   40.     25.9  0.0220  0.72  1.00   0.50  228.0  15.0  279.2   2.0    0   0.00  100.  1007.     3 NAD-SFC NoSubs
10  1 31  31  1   -1.3  0.075 -9.000 -9.000 -999.   49.     29.6  0.0960  0.72  1.00   0.50   24.0  15.0  278.0   2.0    0   0.00  100.  1007.     3 NAD-SFC NoSubs
10  1 31  31  2   -1.1  0.069 -9.000 -9.000 -999.   43.     27.4  0.0400  0.72  1.00   0.50   88.0  15.0  277.9   2.0    0   0.00  100.  1007.     3 NAD-SFC NoSubs
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10	1	31	31	3	-1.0	0.067	-9.000	-9.000	-999.	42.	26.8	0.0310	0.72	1.00	0.50	102.0	15.0	277.8	2.0	0	0.00	100.	1007.	3	NAD-SFC	NoSubs
10	1	31	31	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	277.8	2.0	0	0.00	100.	1007.	2	NAD-SFC	NoSubs
10	1	31	31	5	-1.0	0.065	-9.000	-9.000	-999.	40.	26.0	0.0200	0.72	1.00	0.50	263.0	15.0	278.0	2.0	0	0.00	100.	1007.	2	NAD-SFC	NoSubs
10	1	31	31	6	-2.2	0.074	-9.000	-9.000	-999.	48.	16.7	0.0200	0.72	1.00	1.00	257.0	15.0	278.2	2.0	0	0.00	100.	1007.	2	NAD-SFC	NoSubs
10	1	31	31	7	-2.5	0.079	-9.000	-9.000	-999.	54.	18.1	0.0420	0.72	1.00	1.00	285.0	15.0	278.2	2.0	0	0.00	100.	1008.	2	NAD-SFC	NoSubs
10	1	31	31	8	-3.8	0.092	-9.000	-9.000	-999.	67.	18.7	0.0420	0.72	0.54	1.50	292.0	15.0	277.8	2.0	0	0.00	100.	1008.	2	NAD-SFC	NoSubs
10	1	31	31	9	26.0	0.134	0.389	0.010	81.	118.	-8.4	0.0420	0.72	0.31	1.50	296.0	15.0	277.5	2.0	0	0.00	100.	1008.	2	NAD-SFC	NoSubs
10	1	31	31	10	69.7	0.209	0.687	0.007	167.	229.	-11.7	0.0800	0.72	0.23	2.10	304.0	15.0	277.8	2.0	0	0.00	100.	1008.	2	NAD-SFC	NoSubs
10	1	31	31	11	101.5	0.172	0.954	0.006	308.	171.	-4.5	0.0800	0.72	0.21	1.50	318.0	15.0	278.0	2.0	0	0.00	100.	1008.	2	NAD-SFC	NoSubs
10	1	31	31	12	119.1	0.139	1.171	0.006	484.	124.	-2.0	0.0950	0.72	0.20	1.00	336.0	15.0	278.4	2.0	0	0.00	98.	1007.	2	NAD-SFC	NoSubs
10	1	31	31	13	122.1	0.139	1.298	0.005	644.	125.	-2.0	0.0960	0.72	0.20	1.00	27.0	15.0	280.1	2.0	0	0.00	85.	1007.	2	NAD-SFC	NoSubs
10	1	31	31	14	110.3	0.138	1.326	0.005	760.	123.	-2.1	0.0960	0.72	0.20	1.00	24.0	15.0	282.2	2.0	0	0.00	71.	1006.	2	NAD-SFC	NoSubs
10	1	31	31	15	83.9	0.174	1.251	0.005	838.	174.	-5.6	0.0960	0.72	0.22	1.50	9.0	15.0	283.8	2.0	0	0.00	62.	1005.	2	NAD-SFC	NoSubs
10	1	31	31	16	44.0	0.163	1.024	0.005	875.	158.	-8.8	0.0960	0.72	0.27	1.50	16.0	15.0	283.9	2.0	0	0.00	60.	1005.	2	NAD-SFC	NoSubs
10	1	31	31	17	-1.8	0.103	-9.000	-9.000	-999.	81.	54.5	0.0650	0.72	0.43	1.50	48.0	15.0	283.2	2.0	0	0.00	65.	1005.	2	NAD-SFC	NoSubs
10	1	31	31	18	-4.4	0.094	-9.000	-9.000	-999.	70.	17.2	0.0400	0.72	1.00	1.50	79.0	15.0	282.4	2.0	0	0.00	70.	1005.	2	NAD-SFC	NoSubs
10	1	31	31	19	-1.0	0.067	-9.000	-9.000	-999.	42.	26.9	0.0310	0.72	1.00	0.50	116.0	15.0	281.4	2.0	0	0.00	76.	1005.	2	NAD-SFC	NoSubs
10	1	31	31	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	280.6	2.0	0	0.00	80.	1006.	2	NAD-SFC	NoSubs
10	1	31	31	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	279.9	2.0	0	0.00	84.	1006.	2	NAD-SFC	NoSubs
10	1	31	31	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	279.4	2.0	0	0.00	86.	1006.	2	NAD-SFC	NoSubs
10	1	31	31	23	-2.5	0.079	-9.000	-9.000	-999.	53.	18.0	0.0400	0.72	1.00	1.00	66.0	15.0	278.9	2.0	0	0.00	89.	1006.	2	NAD-SFC	NoSubs
10	1	31	31	24	-2.5	0.079	-9.000	-9.000	-999.	53.	18.0	0.0400	0.72	1.00	1.00	73.0	15.0	278.8	2.0	0	0.00	91.	1006.	2	NAD-SFC	NoSubs
10	2	1	32	1	-1.1	0.069	-9.000	-9.000	-999.	44.	27.6	0.0400	0.72	1.00	0.50	83.0	15.0	278.8	2.0	0	0.00	91.	1006.	2	NAD-SFC	NoSubs
10	2	1	32	2	-1.1	0.069	-9.000	-9.000	-999.	44.	27.6	0.0400	0.72	1.00	0.50	88.0	15.0	278.8	2.0	0	0.00	91.	1006.	2	NAD-SFC	NoSubs
10	2	1	32	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	278.8	2.0	0	0.00	91.	1005.	2	NAD-SFC	NoSubs
10	2	1	32	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	278.8	2.0	0	0.00	91.	1005.	2	NAD-SFC	NoSubs
10	2	1	32	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	278.5	2.0	0	0.00	92.	1005.	2	NAD-SFC	NoSubs
10	2	1	32	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	278.5	2.0	0	0.00	93.	1005.	2	NAD-SFC	NoSubs
10	2	1	32	7	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	278.8	2.0	0	0.00	91.	1005.	2	NAD-SFC	NoSubs
10	2	1	32	8	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	0.54	0.00	0.0	15.0	279.0	2.0	0	0.00	89.	1006.	2	NAD-SFC	NoSubs
10	2	1	32	9	27.2	0.075	0.394	0.011	80.	49.	-1.4	0.0950	0.72	0.31	0.50	350.0	15.0	280.1	2.0	0	0.00	80.	1006.	2	NAD-SFC	NoSubs
10	2	1	32	10	71.5	0.131	0.764	0.010	223.	114.	-2.8	0.0960	0.72	0.23	1.00	4.0	15.0	282.4	2.0	0	0.00	66.	1005.	2	NAD-SFC	NoSubs
10	2	1	32	11	103.6	0.136	1.033	0.009	381.	121.	-2.2	0.0950	0.72	0.21	1.00	336.0	15.0	283.8	2.0	0	0.00	61.	1005.	2	NAD-SFC	NoSubs
10	2	1	32	12	121.3	0.221	1.177	0.008	482.	249.	-7.9	0.0800	0.72	0.20	2.10	326.0	15.0	284.2	2.0	0	0.00	60.	1005.	2	NAD-SFC	NoSubs
10	2	1	32	13	124.1	0.302	1.252	0.007	566.	398.	-19.9	0.0950	0.72	0.20	3.10	334.0	15.0	284.4	2.0	0	0.00	62.	1004.	2	NAD-SFC	NoSubs
10	2	1	32	14	111.9	0.255	1.254	0.006	632.	310.	-13.2	0.0800	0.72	0.20	2.60	309.0	15.0	284.2	2.0	0	0.00	63.	1004.	2	NAD-SFC	NoSubs
10	2	1	32	15	86.1	0.102	1.185	0.006	692.	100.	-1.1	0.0200	0.72	0.22	1.00	256.0	15.0	284.0	2.0	0	0.00	66.	1004.	3	NAD-SFC	NoSubs
10	2	1	32	16	46.4	0.102	0.983	0.006	733.	79.	-2.1	0.0310	0.72	0.27	1.00	96.0	15.0	283.8	2.0	0	0.00	71.	1004.	3	NAD-SFC	NoSubs
10	2	1	32	17	1.0	0.076	0.269	0.006	733.	50.	-41.2	0.0400	0.72	0.42	1.00	88.0	15.0	283.6	2.0	0	0.00	72.	1004.	4	NAD-SFC	NoSubs
10	2	1	32	18	-2.1	0.072	-9.000	-9.000	-999.	47.	16.5	0.0220	0.72	1.00	1.00	182.0	15.0	283.5	2.0	0	0.00	74.	1004.	4	NAD-SFC	NoSubs
10	2	1	32	19	-10.9	0.146	-9.000	-9.000	-999.	135.	25.8	0.0240	0.72	1.00	2.60	166.0	15.0	283.2	2.0	0	0.00	76.	1004.	4	NAD-SFC	NoSubs
10	2	1	32	20	-10.9	0.146	-9.000	-9.000	-999.	135.	25.8	0.0240	0.72	1.00	2.60	179.0	15.0	282.8	2.0	0	0.00	80.	1004.	4	NAD-SFC	NoSubs
10	2	1	32	21	-10.7	0.144	-9.000	-9.000	-999.	132.	25.3	0.0220	0.72	1.00	2.60	195.0	15.0	282.5	2.0	0	0.00	84.	1004.	4	NAD-SFC	NoSubs
10	2	1	32	22	-3.8	0.087	-9.000	-9.000	-999.	62.	15.5	0.0220	0.72	1.00	1.50	192.0	15.0	282.2	2.0	0	0.00	84.	1004.	3	NAD-SFC	NoSubs
10	2	1	32	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	282.2	2.0	0	0.00	85.	1004.	3	NAD-SFC	NoSubs
10	2	1	32	24	-4.9	0.101	-9.000	-9.000	-999.	77.	19.1	0.0650	0.72	1.00	1.50	42.0	15.0	282.0	2.0	0	0.00	86.	1004.	3	NAD-SFC	NoSubs
10	2	2	33	1	-14.6	0.175	-9.000	-9.000	-999.	175.	32.9	0.0650	0.72	1.00	2.60	32.0	15.0	281.8	2.0	0	0.00	87.	1004.	3	NAD-SFC	NoSubs
10	2	2	33	2	-9.2	0.139	-9.000	-9.000	-999.	125.	26.2	0.0650	0.72	1.00	2.10	35.0	15.0	281.8	2.0	0	0.00	87.	1003.	4	NAD-SFC	NoSubs
10	2	2	33	3	-2.8	0.085	-9.000	-9.000	-999.	60.	19.8	0.0960	0.72	1.00	1.00	23.0	15.0	281.5	2.0	0	0.00	87.	1003.	4	NAD-SFC	NoSubs
10	2	2	33	4	-1.2	0.073	-9.000	-9.000	-999.	47.	29.1	0.0960	0.72	1.00	0.50	5.0	15.0	281.5	2.0	0	0.00	87.	1003.	4	NAD-SFC	NoSubs
10	2	2	33	5	-1.1	0.072	-9.000	-9.000	-999.	46.	28.6	0.0950	0.72	1.00	0.50	349.0	15.0	281.4	2.0	0	0.00	88.	1003.	5	NAD-SFC	NoSubs
10	2	2	33	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	281.2	2.0	0	0.00	89.	1003.	4	NAD-SFC	NoSubs
10	2	2	33	7	-2.8	0.085	-9.000	-9.000	-999.	60.	19.8	0.0950	0.72	1.00	1.00	356.0	15.0	281.2	2.0	0	0.25	90.	1003.	4	NAD-SFC	NoSubs
10	2	2	33	8	-2.0	0.076	-9.000	-9.000	-999.	50.	19.4	0.0950	0.72	0.53	1.00	346.0	15.0	281.2	2.0	0	0.25	90.	1003.	4	NAD-SFC	NoSubs
10	2	2	33	9	30.7	0.157	0.454	0.007	109.	149.	-11.2	0.0950	0.72	0.30	1.50	345.0	15.0	281.5	2.0	0	0.51	89.	1003.	4	NAD-SFC	NoSubs
10	2	2	33	10	73.4	0.246	0.800	0.006	249.	293.	-18.1	0.0800	0.72	0.23	2.60	326.0	15.0	281.9	2.0	0	0.51	86.	1003.	4	NAD-SFC	NoSubs
10	2	2	33	11	104.4	0.261	1.064	0.005	413.	320.	-15.3	0.0950	0.72	0.20	2.60	331.0	15.0	282.2	2.0	0	0.51	86.	1003.	4	NAD-SFC	NoSubs
10	2	2	33	12	121.6	0.302	1.268	0.005	600.	397.	-20.2	0.0950	0.72	0.20	3.10	336.0	15.0	282.5	2.0	0	0.25	86.	1003.	4	NAD-SFC	NoSubs
10	2	2	33	13	124.4	0.339	1.385	0.005	765.	473.	-28.0	0.0950	0.72	0.19	3.60	343.0	15.0	282.9	2.0	0	0.25	86.	1002.	4	NAD-SFC	NoSubs
10	2	2	33	14	109.4	0.336	1.397	0.005	892.	467.	-30.9	0.0950	0.72	0.20	3.60	346.0	15.0	283.1	2.0	0	0.25	86.	1002.	5	NAD-SFC	NoSubs
10	2	2	33	15	84.4	0.293	1.328	0.005	991.	382.	-26.7	0.0950	0.72	0.22	3.10	352.0	15.0	283.0	2.0	0	0.51	88.	1002.	5	NAD-SFC	NoSubs
10	2	2	33	16	40.1	0.242	1.069	0.005	1089.	287.	-31.5	0.0950	0.72	0.27	2.60	350.0	15.0	282.8	2.0	0	1.02	93.	1002.	7	NAD-SFC	NoSubs
10	2	2	33	17	2.9	0.131	0.444	0.005	1093.	120.	-70.1	0.0950	0.72	0.41	1.50	348.0	15.0	282.2	2.0	0	1.52	96.	1002.	7	NAD-SFC	NoSubs
10	2	2	33	18	-5.0	0.107	-9.000	-9.000	-999.	84.	22.1	0.0950	0.72	1.00	1.50	354.0	15.0	282.1	2.0	0	1.52	98.	1002.	6	NAD-SFC	NoSubs
10	2	2	33	19	-1.1	0.071	-9.000	-9.000	-999.	46.	28.6	0.0950	0.72	1.00	0.50	338.0	15.0	282.0	2.0	0	1.27	99.	1002.	5	NAD-SFC	NoSubs
10	2	2	33	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	282.0	2.0	0	0.76	99.	1002.	5	NAD-SFC	NoSubs
10	2	2	33	21	-0.8	0.062	-9.000	-9.000	-999.	37.	24.8	0.0200	0.72	1.00	0.50	253.0	15.0	281.9	2.0	0	0.25	100.	1002.	5	NAD-SFC	NoSubs
10	2	2	33	22	-0.9	0.064	-9.000	-9.000	-999.	39.	25.9	0.0420	0.72	1.00	0.50	290.0	15.0	281.9	2.0	0	0.00	100.	1002.	6	NAD-SFC	NoSubs
10	2	2	33	23	-1.1	0.070	-9.000	-9.000	-999.	45.	28.1	0.0800	0.72	1.00	0.50	319.0	15.0	281.9	2.0	0	0.00	100.	1002.	5	NAD-SFC	NoSubs
10	2	2	33	24	-2.3	0.077	-9.000	-9.000	-999.	52.	17.8	0.0420	0.72	1.00	1.00	293.0	15.0	281.9	2.0	0	0.00	100.	1002.	4	NAD-SFC	NoSubs
10	2	3	34	1	-2.3	0.077	-9.000	-9.000	-999.	52.	17.8	0.0420	0.72	1.00	1.00	291.0	15.0	281.9	2.0	0	0.00	100.	1001.	4	NAD-SFC	NoSubs
10	2	3	34	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	282.0	2.0	0	0.00	100.	1001.	4	NAD-SFC	NoSubs
10	2	3	34	3	-1.0	0.067	-9.000	-9.000	-999.	42.	26.9	0.0400	0.72	1.00	0.50	66.0	15.0	282.0	2.0	0	0.00	100.	1000.	4	NAD-SFC	NoSubs
10	2	3	34	4	-1.0	0.067	-9.000	-9.000	-999.	42.	26.9	0.0400	0.72	1.00	0.50	68.0	15.0	282.0	2.0	0	0.00	100.	1000.	4	NAD-SFC	NoSubs
10	2	3	34	5	-2.3	0.077	-9.000	-9.000	-999.	51.	17.7	0.0400	0.72	1.00	1.00	66.0	15.0	281.8	2.0	0	0.00	100.	1000.	4	NAD-SFC	NoSubs
10	2	3	34	6	-4.2	0.094	-9.000	-9.000	-999.	69.	17.4	0.0400	0.72	1.00	1.50	76.0	15.0	281.4	2.0	0	0.00	100.	1001.	4	NAD-SFC	NoSubs
10	2	3	34	7	-4.2	0.094	-9.000	-9.000	-999.	69.	17.4	0.0400	0.72	1.00	1.50	80.0	15.0	281.0	2.0	0	0.00	100.	1001.	4	NAD-SFC	NoSubs

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10  2  3  34  8   -3.3  0.091 -9.000 -9.000 -999.   65.     20.4  0.0400  0.72  0.53  1.50   72.0  15.0 280.9  2.0   0  0.00  100.  1001.    4 NAD-SFC NoSubs
10  2  3  34  9   31.5  0.102  0.615  0.009  264.   78.     -3.0  0.0400  0.72  0.30  1.00   74.0  15.0 280.9  2.0   0  0.00  100.  1002.    4 NAD-SFC NoSubs
10  2  3  34 10   74.3  0.070  0.915  0.009  369.   44.     -1.0  0.0310  0.72  0.23  0.50   93.0  15.0 281.2  2.0   0  0.00   99.  1002.    4 NAD-SFC NoSubs
10  2  3  34 11  105.3 -9.000 -9.000 -9.000  478. -999. -99999.0  0.0471  0.72  0.20  0.00    0.0  15.0 281.6  2.0   0  0.00   96.  1003.    4 NAD-SFC NoSubs
10  2  3  34 12  122.6  0.106  1.257  0.008  579.   83.     -1.0  0.0200  0.72  0.20  1.00  260.0  15.0 282.1  2.0   0  0.00   96.  1002.    4 NAD-SFC NoSubs
10  2  3  34 13  125.4  0.121  1.329  0.007  669.  101.     -1.2  0.0420  0.72  0.19  1.00  278.0  15.0 282.8  2.0   0  0.00   91.  1001.    4 NAD-SFC NoSubs
10  2  3  34 14  114.7  0.134  1.338  0.006  747.  118.     -1.9  0.0800  0.72  0.20  1.00  308.0  15.0 283.0  2.0   0  0.00   88.  1001.    3 NAD-SFC NoSubs
10  2  3  34 15   88.2  0.134  1.257  0.006  803.  118.     -2.4  0.0950  0.72  0.22  1.00  332.0  15.0 283.2  2.0   0  0.00   87.  1000.    3 NAD-SFC NoSubs
10  2  3  34 16   48.6 -9.000 -9.000 -9.000  831. -999. -99999.0  0.0471  0.72  0.26  0.00    0.0  15.0 283.2  2.0   0  0.00   87.  1000.    3 NAD-SFC NoSubs
10  2  3  34 17    1.2  0.117  0.301  0.005  832.   96.   -123.7  0.0650  0.72  0.41  1.50   37.0  15.0 283.0  2.0   0  0.00   90.  1000.    3 NAD-SFC NoSubs
10  2  3  34 18   -4.3  0.094 -9.000 -9.000 -999.   69.     17.3  0.0400  0.72  1.00  1.50   85.0  15.0 282.4  2.0   0  0.00   93.  1000.    3 NAD-SFC NoSubs
10  2  3  34 19   -4.0  0.091 -9.000 -9.000 -999.   66.     16.5  0.0310  0.72  1.00  1.50  106.0  15.0 281.9  2.0   0  0.00   96.  1000.    3 NAD-SFC NoSubs
10  2  3  34 20   -3.9  0.089 -9.000 -9.000 -999.   64.     16.3  0.0280  0.72  1.00  1.50  142.0  15.0 281.6  2.0   0  0.00   98.  1001.    4 NAD-SFC NoSubs
10  2  3  34 21   -2.2  0.074 -9.000 -9.000 -999.   48.     16.8  0.0240  0.72  1.00  1.00  153.0  15.0 281.2  2.0   0  0.00   99.  1001.    3 NAD-SFC NoSubs
10  2  3  34 22   -2.2  0.075 -9.000 -9.000 -999.   50.     17.1  0.0280  0.72  1.00  1.00  138.0  15.0 281.1  2.0   0  0.00  100.  1001.    3 NAD-SFC NoSubs
10  2  3  34 23   -2.2  0.075 -9.000 -9.000 -999.   50.     17.1  0.0280  0.72  1.00  1.00  133.0  15.0 279.6  2.0   0  0.00  100.  1001.    3 NAD-SFC NoSubs
10  2  3  34 24   -4.0  0.090 -9.000 -9.000 -999.   64.     16.1  0.0280  0.72  1.00  1.50  125.0  15.0 279.1  2.0   0  0.00  100.  1001.    3 NAD-SFC NoSubs
10  2  4  35  1   -4.1  0.091 -9.000 -9.000 -999.   66.     16.4  0.0310  0.72  1.00  1.50  117.0  15.0 279.1  2.0   0  0.00  100.  1001.    3 NAD-SFC NoSubs
10  2  4  35  2   -2.3  0.076 -9.000 -9.000 -999.   51.     17.3  0.0310  0.72  1.00  1.00  117.0  15.0 279.2  2.0   0  0.00  100.  1001.    3 NAD-SFC NoSubs
10  2  4  35  3   -1.0  0.066 -9.000 -9.000 -999.   41.     26.5  0.0280  0.72  1.00  0.50  136.0  15.0 279.5  2.0   0  0.00  100.  1001.    3 NAD-SFC NoSubs
10  2  4  35  4   -0.9  0.065 -9.000 -9.000 -999.   40.     25.9  0.0220  0.72  1.00  0.50  185.0  15.0 279.4  2.0   0  0.00  100.  1002.    3 NAD-SFC NoSubs
10  2  4  35  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 279.2  2.0   0  0.00  100.  1002.    3 NAD-SFC NoSubs
10  2  4  35  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 279.2  2.0   0  0.00  100.  1002.    3 NAD-SFC NoSubs
10  2  4  35  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 279.1  2.0   0  0.00  100.  1002.    3 NAD-SFC NoSubs
10  2  4  35  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.52  0.00    0.0  15.0 279.2  2.0   0  0.00  100.  1003.    3 NAD-SFC NoSubs
10  2  4  35  9   31.3 -9.000 -9.000 -9.000  127. -999. -99999.0  0.0471  0.72  0.30  0.00    0.0  15.0 279.4  2.0   0  0.00  100.  1003.    3 NAD-SFC NoSubs
10  2  4  35 10   75.1 -9.000 -9.000 -9.000  203. -999. -99999.0  0.0471  0.72  0.23  0.00    0.0  15.0 279.9  2.0   0  0.00  100.  1003.    3 NAD-SFC NoSubs
10  2  4  35 11  107.0 -9.000 -9.000 -9.000  346. -999. -99999.0  0.0471  0.72  0.20  0.00    0.0  15.0 281.0  2.0   0  0.00   96.  1003.    3 NAD-SFC NoSubs
10  2  4  35 12  124.9 -9.000 -9.000 -9.000  470. -999. -99999.0  0.0471  0.72  0.20  0.00    0.0  15.0 282.8  2.0   0  0.00   87.  1002.    3 NAD-SFC NoSubs
10  2  4  35 13  128.1 -9.000 -9.000 -9.000  575. -999. -99999.0  0.0471  0.72  0.19  0.00    0.0  15.0 284.2  2.0   0  0.00   77.  1001.    3 NAD-SFC NoSubs
10  2  4  35 14  116.3  0.139  1.287  0.006  655.  124.     -2.1  0.0960  0.72  0.20  1.00    7.0  15.0 285.0  2.0   0  0.00   72.  1001.    3 NAD-SFC NoSubs
10  2  4  35 15   89.9  0.176  1.223  0.006  727.  176.     -5.4  0.0960  0.72  0.22  1.50   25.0  15.0 285.4  2.0   0  0.00   71.  1000.    3 NAD-SFC NoSubs
10  2  4  35 16   50.6  0.154  1.028  0.006  766.  145.     -6.4  0.0650  0.72  0.26  1.50   42.0  15.0 286.6  2.0   0  0.00   71.  1000.    3 NAD-SFC NoSubs
10  2  4  35 17    2.9  0.089  0.397  0.006  768.   64.    -21.5  0.0650  0.72  0.40  1.00   36.0  15.0 286.2  2.0   0  0.00   71.   999.    3 NAD-SFC NoSubs
10  2  4  35 18   -1.2  0.074 -9.000 -9.000 -999.   48.     29.3  0.0960  0.72  1.00  0.50    2.0  15.0 285.9  2.0   0  0.00   73.  1000.    3 NAD-SFC NoSubs
10  2  4  35 19   -2.7  0.084 -9.000 -9.000 -999.   58.     19.4  0.0800  0.72  1.00  1.00  325.0  15.0 285.5  2.0   0  0.00   76.  1001.    3 NAD-SFC NoSubs
10  2  4  35 20   -1.2  0.074 -9.000 -9.000 -999.   48.     29.3  0.0950  0.72  1.00  0.50  344.0  15.0 285.4  2.0   0  0.00   76.  1001.    3 NAD-SFC NoSubs
10  2  4  35 21   -1.2  0.073 -9.000 -9.000 -999.   47.     29.0  0.0950  0.72  1.00  0.50  346.0  15.0 285.4  2.0   0  0.00   74.  1002.    4 NAD-SFC NoSubs
10  2  4  35 22   -1.2  0.073 -9.000 -9.000 -999.   47.     29.0  0.0960  0.72  1.00  0.50   24.0  15.0 285.2  2.0   0  0.00   73.  1003.    4 NAD-SFC NoSubs
10  2  4  35 23   -2.3  0.077 -9.000 -9.000 -999.   51.     17.7  0.0400  0.72  1.00  1.00   72.0  15.0 285.0  2.0   0  0.00   75.  1003.    4 NAD-SFC NoSubs
10  2  4  35 24   -7.8  0.127 -9.000 -9.000 -999.  109.     23.7  0.0400  0.72  1.00  2.10   78.0  15.0 284.8  2.0   0  0.00   75.  1003.    5 NAD-SFC NoSubs
10  2  5  36  1  -10.6  0.154 -9.000 -9.000 -999.  145.     31.0  0.0310  0.72  1.00  2.60   96.0  15.0 284.5  2.0   0  0.00   74.  1003.    7 NAD-SFC NoSubs
10  2  5  36  2   -6.6  0.120 -9.000 -9.000 -999.  100.     23.5  0.0280  0.72  1.00  2.10  129.0  15.0 284.2  2.0   0  0.25   75.  1003.    7 NAD-SFC NoSubs
10  2  5  36  3   -3.5  0.086 -9.000 -9.000 -999.   60.     16.2  0.0240  0.72  1.00  1.50  162.0  15.0 284.1  2.0   0  0.25   78.  1003.    6 NAD-SFC NoSubs
10  2  5  36  4   -1.7  0.067 -9.000 -9.000 -999.   42.     15.8  0.0220  0.72  1.00  1.00  182.0  15.0 283.9  2.0   0  0.25   83.  1003.    7 NAD-SFC NoSubs
10  2  5  36  5   -0.8  0.062 -9.000 -9.000 -999.   37.     24.9  0.0280  0.72  1.00  0.50  129.0  15.0 283.8  2.0   0  0.25   87.  1003.    6 NAD-SFC NoSubs
10  2  5  36  6   -3.8  0.089 -9.000 -9.000 -999.   64.     16.8  0.0310  0.72  1.00  1.50   96.0  15.0 284.0  2.0   0  0.00   89.  1003.    5 NAD-SFC NoSubs
10  2  5  36  7   -2.1  0.073 -9.000 -9.000 -999.   48.     17.0  0.0310  0.72  1.00  1.00  109.0  15.0 284.2  2.0   0  0.00   89.  1003.    5 NAD-SFC NoSubs
10  2  5  36  8   -0.6  0.053 -9.000 -9.000 -999.   30.     22.6  0.0650  0.72  0.51  0.50   38.0  15.0 284.4  2.0   0  0.25   90.  1003.    5 NAD-SFC NoSubs
10  2  5  36  9   33.9  0.112  0.548  0.006  173.   90.     -3.7  0.0650  0.72  0.30  1.00   50.0  15.0 284.5  2.0   0  0.25   91.  1003.    5 NAD-SFC NoSubs
10  2  5  36 10   75.4  0.160  0.897  0.005  342.  154.     -4.9  0.0650  0.72  0.23  1.50   55.0  15.0 285.5  2.0   0  0.25   87.  1003.    5 NAD-SFC NoSubs
10  2  5  36 11   89.3  0.163  1.084  0.005  511.  159.     -4.4  0.0650  0.72  0.20  1.50   32.0  15.0 287.2  2.0   0  0.51   79.  1003.    7 NAD-SFC NoSubs
10  2  5  36 12  103.7  0.128  1.253  0.005  679.  109.     -1.8  0.0650  0.72  0.19  1.00   32.0  15.0 288.9  2.0   0  0.51   71.  1003.    7 NAD-SFC NoSubs
10  2  5  36 13  106.2 -9.000 -9.000 -9.000  844. -999. -99999.0  0.0471  0.72  0.19  0.00    0.0  15.0 289.9  2.0   0  0.51   67.  1002.    7 NAD-SFC NoSubs
10  2  5  36 14   96.9  0.067  1.379  0.006  969.   42.     -1.0  0.0200  0.72  0.20  0.50  256.0  15.0 290.1  2.0   0  0.51   67.  1002.    7 NAD-SFC NoSubs
10  2  5  36 15   63.1  0.064  1.212  0.006 1008.   39.     -1.0  0.0220  0.72  0.21  0.50  234.0  15.0 290.0  2.0   0  0.25   69.  1002.    8 NAD-SFC NoSubs
10  2  5  36 16   44.7  0.063  1.090  0.006 1034.   38.     -1.0  0.0240  0.72  0.26  0.50  175.0  15.0 289.8  2.0   0  0.25   73.  1002.    7 NAD-SFC NoSubs
10  2  5  36 17    6.9  0.052  0.586  0.006 1037.   29.     -1.8  0.0310  0.72  0.40  0.50  113.0  15.0 289.2  2.0   0  0.25   76.  1002.    7 NAD-SFC NoSubs
10  2  5  36 18   -1.8  0.069 -9.000 -9.000 -999.   44.     16.5  0.0310  0.72  1.00  1.00  117.0  15.0 288.8  2.0   0  0.51   80.  1002.    7 NAD-SFC NoSubs
10  2  5  36 19   -3.5  0.087 -9.000 -9.000 -999.   62.     16.8  0.0280  0.72  1.00  1.50  125.0  15.0 288.2  2.0   0  0.25   83.  1002.    6 NAD-SFC NoSubs
10  2  5  36 20   -7.2  0.122 -9.000 -9.000 -999.  102.     22.4  0.0310  0.72  1.00  2.10  112.0  15.0 287.9  2.0   0  0.00   84.  1002.    5 NAD-SFC NoSubs
10  2  5  36 21  -16.6  0.185 -9.000 -9.000 -999.  191.     34.1  0.0310  0.72  1.00  3.10   99.0  15.0 287.8  2.0   0  0.00   83.  1002.    4 NAD-SFC NoSubs
10  2  5  36 22  -21.9  0.217 -9.000 -9.000 -999.  243.     41.8  0.0310  0.72  1.00  3.60  112.0  15.0 287.8  2.0   0  0.00   81.  1002.    4 NAD-SFC NoSubs
10  2  5  36 23  -21.9  0.217 -9.000 -9.000 -999.  243.     41.8  0.0310  0.72  1.00  3.60  114.0  15.0 287.4  2.0   0  0.00   78.  1002.    4 NAD-SFC NoSubs
10  2  5  36 24  -21.9  0.217 -9.000 -9.000 -999.  243.     41.7  0.0310  0.72  1.00  3.60  117.0  15.0 287.2  2.0   0  0.00   75.  1002.    4 NAD-SFC NoSubs
10  2  6  37  1  -21.9  0.217 -9.000 -9.000 -999.  243.     41.7  0.0310  0.72  1.00  3.60  118.0  15.0 287.2  2.0   0  0.25   72.  1002.    4 NAD-SFC NoSubs
10  2  6  37  2  -21.6  0.214 -9.000 -9.000 -999.  237.     40.3  0.0280  0.72  1.00  3.60  123.0  15.0 287.2  2.0   0  0.51   70.  1002.    4 NAD-SFC NoSubs
10  2  6  37  3  -21.9  0.217 -9.000 -9.000 -999.  243.     41.7  0.0310  0.72  1.00  3.60  110.0  15.0 287.2  2.0   0  0.76   69.  1002.    4 NAD-SFC NoSubs
10  2  6  37  4  -25.2  0.249 -9.000 -9.000 -999.  298.     54.9  0.0310  0.72  1.00  4.10  106.0  15.0 287.2  2.0   0  0.51   70.  1002.    4 NAD-SFC NoSubs
10  2  6  37  5  -25.2  0.249 -9.000 -9.000 -999.  298.     54.9  0.0310  0.72  1.00  4.10   98.0  15.0 287.1  2.0   0  0.25   71.  1002.    4 NAD-SFC NoSubs
10  2  6  37  6  -28.4  0.281 -9.000 -9.000 -999.  357.     69.8  0.0310  0.72  1.00  4.60   97.0  15.0 286.9  2.0   0  0.00   72.  1002.    4 NAD-SFC NoSubs
10  2  6  37  7  -25.2  0.249 -9.000 -9.000 -999.  299.     54.8  0.0310  0.72  1.00  4.10   94.0  15.0 286.8  2.0   0  0.00   72.  1002.    4 NAD-SFC NoSubs
10  2  6  37  8  -14.3  0.264 -9.000 -9.000 -999.  325.    114.5  0.0400  0.72  0.51  4.10   89.0  15.0 286.8  2.0   0  0.00   73.  1002.    4 NAD-SFC NoSubs
10  2  6  37  9   35.6  0.260  0.592  0.005  207.  318.    -44.0  0.0310  0.72  0.29  3.60   94.0  15.0 286.8  2.0   0  0.00   73.  1002.    4 NAD-SFC NoSubs
10  2  6  37 10   79.1  0.140  1.032  0.005  496.  134.     -3.1  0.0280  0.72  0.23  1.50  148.0  15.0 288.4  2.0   0  0.00   67.  1002.    4 NAD-SFC NoSubs
10  2  6  37 11  111.0  0.207  1.329  0.005  757.  226.     -7.2  0.0220  0.72  0.20  2.60  228.0  15.0 290.5  2.0   0  0.00   55.  1002.    4 NAD-SFC NoSubs
10  2  6  37 12  124.3  0.358  1.528  0.005 1025.  515.    -33.1  0.0420  0.72  0.19  4.60  286.0  15.0 290.2  2.0   0  0.76   57.  1001.    5 NAD-SFC NoSubs
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10	2	6	37	13	118.6	0.618	1.583	0.005	1195.	1165.	-177.4	0.0800	0.72	0.19	7.70	304.0	15.0	287.5	2.0	0	2.03	81.	1001.	6	NAD-SFC NoSubs
10	2	6	37	14	118.0	0.397	1.643	0.005	1345.	650.	-47.5	0.0800	0.72	0.20	4.60	309.0	15.0	286.2	2.0	0	4.83	90.	1001.	4	NAD-SFC NoSubs
10	2	6	37	15	92.2	0.142	1.563	0.005	1480.	236.	-2.8	0.0280	0.72	0.21	1.50	135.0	15.0	286.4	2.0	0	1.27	86.	1000.	4	NAD-SFC NoSubs
10	2	6	37	16	53.3	0.172	1.323	0.005	1552.	172.	-8.5	0.0280	0.72	0.26	2.10	122.0	15.0	286.5	2.0	0	0.51	86.	1000.	4	NAD-SFC NoSubs
10	2	6	37	17	7.1	0.182	0.678	0.005	1560.	186.	-75.1	0.0310	0.72	0.40	2.60	112.0	15.0	286.1	2.0	0	1.02	86.	1000.	5	NAD-SFC NoSubs
10	2	6	37	18	-0.9	0.062	-9.000	-9.000	-999.	51.	24.9	0.0220	0.72	1.00	0.50	212.0	15.0	285.8	2.0	0	1.27	85.	1001.	5	NAD-SFC NoSubs
10	2	6	37	19	-25.5	0.263	-9.000	-9.000	-999.	323.	63.7	0.0420	0.72	1.00	4.10	288.0	15.0	284.9	2.0	0	0.76	86.	1002.	5	NAD-SFC NoSubs
10	2	6	37	20	-28.8	0.296	-9.000	-9.000	-999.	387.	80.7	0.0420	0.72	1.00	4.60	291.0	15.0	284.0	2.0	0	0.00	90.	1003.	5	NAD-SFC NoSubs
10	2	6	37	21	-30.4	0.296	-9.000	-9.000	-999.	386.	76.4	0.0420	0.72	1.00	4.60	289.0	15.0	283.2	2.0	0	0.51	88.	1003.	4	NAD-SFC NoSubs
10	2	6	37	22	-32.3	0.330	-9.000	-9.000	-999.	455.	99.6	0.0420	0.72	1.00	5.10	292.0	15.0	282.6	2.0	0	0.00	87.	1004.	5	NAD-SFC NoSubs
10	2	6	37	23	-32.4	0.330	-9.000	-9.000	-999.	455.	99.4	0.0420	0.72	1.00	5.10	297.0	15.0	282.1	2.0	0	0.00	87.	1005.	5	NAD-SFC NoSubs
10	2	6	37	24	-11.1	0.199	-9.000	-9.000	-999.	223.	63.1	0.0420	0.72	1.00	3.10	287.0	15.0	282.0	2.0	0	0.00	88.	1005.	10	NAD-SFC NoSubs
10	2	7	38	1	-7.9	0.146	-9.000	-9.000	-999.	134.	35.1	0.0200	0.72	1.00	2.60	268.0	15.0	281.9	2.0	0	0.51	87.	1005.	10	NAD-SFC NoSubs
10	2	7	38	2	-11.1	0.199	-9.000	-9.000	-999.	213.	63.0	0.0420	0.72	1.00	3.10	275.0	15.0	281.9	2.0	0	1.02	85.	1005.	10	NAD-SFC NoSubs
10	2	7	38	3	-25.8	0.263	-9.000	-9.000	-999.	323.	63.0	0.0420	0.72	1.00	4.10	294.0	15.0	281.8	2.0	0	0.25	82.	1005.	5	NAD-SFC NoSubs
10	2	7	38	4	-25.9	0.263	-9.000	-9.000	-999.	323.	62.9	0.0420	0.72	1.00	4.10	298.0	15.0	281.4	2.0	0	0.00	84.	1006.	5	NAD-SFC NoSubs
10	2	7	38	5	-25.5	0.259	-9.000	-9.000	-999.	316.	61.0	0.0800	0.72	1.00	3.60	301.0	15.0	280.9	2.0	0	0.00	85.	1006.	5	NAD-SFC NoSubs
10	2	7	38	6	-21.6	0.221	-9.000	-9.000	-999.	250.	44.9	0.0800	0.72	1.00	3.10	300.0	15.0	280.6	2.0	0	0.00	87.	1006.	5	NAD-SFC NoSubs
10	2	7	38	7	-16.7	0.196	-9.000	-9.000	-999.	209.	40.7	0.0420	0.72	1.00	3.10	292.0	15.0	280.4	2.0	0	0.00	88.	1007.	7	NAD-SFC NoSubs
10	2	7	38	8	-12.2	0.302	-9.000	-9.000	-999.	399.	204.0	0.0800	0.72	0.50	4.10	304.0	15.0	280.6	2.0	0	0.00	87.	1007.	8	NAD-SFC NoSubs
10	2	7	38	9	24.2	0.368	0.492	0.005	176.	537.	-185.5	0.0800	0.72	0.29	4.60	324.0	15.0	281.2	2.0	0	0.00	85.	1008.	8	NAD-SFC NoSubs
10	2	7	38	10	72.2	0.326	0.944	0.005	419.	447.	-42.9	0.0950	0.72	0.22	3.60	333.0	15.0	281.8	2.0	0	0.00	85.	1008.	6	NAD-SFC NoSubs
10	2	7	38	11	100.3	0.288	1.181	0.005	591.	372.	-21.5	0.0800	0.72	0.20	3.10	328.0	15.0	282.0	2.0	0	0.00	84.	1008.	6	NAD-SFC NoSubs
10	2	7	38	12	103.7	0.289	1.294	0.005	751.	373.	-20.9	0.0800	0.72	0.19	3.10	321.0	15.0	282.0	2.0	0	0.00	84.	1007.	7	NAD-SFC NoSubs
10	2	7	38	13	118.3	0.292	1.446	0.005	919.	378.	-18.8	0.0800	0.72	0.19	3.10	312.0	15.0	282.0	2.0	0	0.00	84.	1006.	6	NAD-SFC NoSubs
10	2	7	38	14	114.7	0.255	1.503	0.005	1064.	310.	-13.0	0.0800	0.72	0.20	2.60	310.0	15.0	282.1	2.0	0	0.00	82.	1006.	5	NAD-SFC NoSubs
10	2	7	38	15	89.9	0.258	1.430	0.005	1168.	314.	-17.1	0.0950	0.72	0.21	2.60	331.0	15.0	282.2	2.0	0	0.00	81.	1006.	5	NAD-SFC NoSubs
10	2	7	38	16	53.4	0.247	1.222	0.005	1226.	295.	-25.3	0.0950	0.72	0.26	2.60	351.0	15.0	282.2	2.0	0	0.00	82.	1006.	4	NAD-SFC NoSubs
10	2	7	38	17	6.2	0.181	0.598	0.005	1233.	187.	-85.7	0.0960	0.72	0.39	2.10	14.0	15.0	282.1	2.0	0	0.00	85.	1005.	4	NAD-SFC NoSubs
10	2	7	38	18	-4.8	0.101	-9.000	-9.000	-999.	79.	19.3	0.0650	0.72	1.00	1.50	33.0	15.0	281.8	2.0	0	0.00	87.	1006.	4	NAD-SFC NoSubs
10	2	7	38	19	-1.1	0.071	-9.000	-9.000	-999.	46.	28.5	0.0650	0.72	1.00	0.50	58.0	15.0	281.2	2.0	0	0.00	89.	1006.	3	NAD-SFC NoSubs
10	2	7	38	20	-1.0	0.065	-9.000	-9.000	-999.	40.	26.1	0.0240	0.72	1.00	0.50	155.0	15.0	280.8	2.0	0	0.00	92.	1007.	3	NAD-SFC NoSubs
10	2	7	38	21	-3.7	0.086	-9.000	-9.000	-999.	61.	15.6	0.0220	0.72	1.00	1.50	180.0	15.0	280.2	2.0	0	0.00	96.	1007.	4	NAD-SFC NoSubs
10	2	7	38	22	-6.9	0.115	-9.000	-9.000	-999.	94.	19.8	0.0220	0.72	1.00	2.10	195.0	15.0	279.8	2.0	0	0.00	98.	1007.	4	NAD-SFC NoSubs
10	2	7	38	23	-3.4	0.085	-9.000	-9.000	-999.	59.	15.9	0.0220	0.72	1.00	1.50	203.0	15.0	279.5	2.0	0	0.00	100.	1008.	6	NAD-SFC NoSubs
10	2	7	38	24	-0.5	0.049	-9.000	-9.000	-999.	26.	20.7	0.0220	0.72	1.00	0.50	214.0	15.0	278.8	2.0	0	0.00	100.	1008.	10	NAD-SFC NoSubs
10	2	8	39	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	278.5	2.0	0	0.00	100.	1008.	10	NAD-SFC NoSubs
10	2	8	39	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	278.8	2.0	0	0.00	100.	1008.	10	NAD-SFC NoSubs
10	2	8	39	3	-0.7	0.056	-9.000	-9.000	-999.	32.	23.5	0.0800	0.72	1.00	0.50	305.0	15.0	279.1	2.0	0	0.00	100.	1008.	10	NAD-SFC NoSubs
10	2	8	39	4	-0.7	0.056	-9.000	-9.000	-999.	32.	23.5	0.0800	0.72	1.00	0.50	301.0	15.0	279.4	2.0	0	0.00	98.	1009.	10	NAD-SFC NoSubs
10	2	8	39	5	-0.7	0.056	-9.000	-9.000	-999.	32.	23.5	0.0800	0.72	1.00	0.50	300.0	15.0	279.5	2.0	0	0.00	98.	1009.	10	NAD-SFC NoSubs
10	2	8	39	6	-3.7	0.103	-9.000	-9.000	-999.	80.	26.7	0.0800	0.72	1.00	1.50	322.0	15.0	279.2	2.0	0	0.00	100.	1010.	10	NAD-SFC NoSubs
10	2	8	39	7	-19.1	0.222	-9.000	-9.000	-999.	251.	51.6	0.0800	0.72	1.00	3.10	321.0	15.0	279.1	2.0	0	0.00	100.	1010.	7	NAD-SFC NoSubs
10	2	8	39	8	-12.0	0.273	-9.000	-9.000	-999.	342.	153.0	0.0950	0.72	0.50	3.60	335.0	15.0	279.0	2.0	0	0.00	100.	1010.	6	NAD-SFC NoSubs
10	2	8	39	9	35.6	0.312	0.539	0.005	159.	418.	-76.9	0.0950	0.72	0.29	3.60	331.0	15.0	278.9	2.0	0	0.00	100.	1010.	5	NAD-SFC NoSubs
10	2	8	39	10	79.1	0.327	0.925	0.005	360.	450.	-40.0	0.0950	0.72	0.22	3.60	334.0	15.0	279.1	2.0	0	0.00	98.	1010.	4	NAD-SFC NoSubs
10	2	8	39	11	110.4	0.254	1.202	0.005	567.	310.	-13.4	0.0800	0.72	0.20	2.60	316.0	15.0	279.5	2.0	0	0.00	95.	1010.	4	NAD-SFC NoSubs
10	2	8	39	12	129.1	0.177	1.378	0.005	731.	180.	-3.8	0.0800	0.72	0.19	1.50	313.0	15.0	280.5	2.0	0	0.00	88.	1009.	3	NAD-SFC NoSubs
10	2	8	39	13	132.5	-9.000	-9.000	-9.000	861.	-999.	-99999.0	0.0471	0.72	0.19	0.00	0.0	15.0	282.6	2.0	0	0.00	74.	1008.	3	NAD-SFC NoSubs
10	2	8	39	14	120.8	-9.000	-9.000	-9.000	964.	-999.	-99999.0	0.0471	0.72	0.20	0.00	0.0	15.0	283.8	2.0	0	0.00	66.	1008.	3	NAD-SFC NoSubs
10	2	8	39	15	94.5	-9.000	-9.000	-9.000	1074.	-999.	-99999.0	0.0471	0.72	0.21	0.00	0.0	15.0	284.5	2.0	0	0.00	62.	1007.	3	NAD-SFC NoSubs
10	2	8	39	16	54.8	-9.000	-9.000	-9.000	1135.	-999.	-99999.0	0.0471	0.72	0.25	0.00	0.0	15.0	284.8	2.0	0	0.00	60.	1006.	3	NAD-SFC NoSubs
10	2	8	39	17	6.3	0.058	0.586	0.008	1141.	34.	-2.8	0.0650	0.72	0.39	0.50	38.0	15.0	284.4	2.0	0	0.00	63.	1006.	3	NAD-SFC NoSubs
10	2	8	39	18	-1.0	0.067	-9.000	-9.000	-999.	42.	26.8	0.0310	0.72	1.00	0.50	99.0	15.0	283.5	2.0	0	0.00	68.	1006.	2	NAD-SFC NoSubs
10	2	8	39	19	-4.0	0.090	-9.000	-9.000	-999.	65.	16.1	0.0280	0.72	1.00	1.50	145.0	15.0	282.4	2.0	0	0.00	75.	1006.	2	NAD-SFC NoSubs
10	2	8	39	20	-23.0	0.213	-9.000	-9.000	-999.	236.	37.6	0.0280	0.72	1.00	3.60	147.0	15.0	281.2	2.0	0	0.00	83.	1006.	2	NAD-SFC NoSubs
10	2	8	39	21	-22.2	0.208	-9.000	-9.000	-999.	227.	36.1	0.0240	0.72	1.00	3.60	163.0	15.0	280.6	2.0	0	0.00	89.	1006.	2	NAD-SFC NoSubs
10	2	8	39	22	-16.9	0.181	-9.000	-9.000	-999.	185.	31.6	0.0280	0.72	1.00	3.10	149.0	15.0	280.4	2.0	0	0.00	90.	1006.	2	NAD-SFC NoSubs
10	2	8	39	23	-16.9	0.181	-9.000	-9.000	-999.	185.	31.6	0.0280	0.72	1.00	3.10	136.0	15.0	280.2	2.0	0	0.00	90.	1006.	2	NAD-SFC NoSubs
10	2	8	39	24	-7.6	0.120	-9.000	-9.000	-999.	100.	20.3	0.0280	0.72	1.00	2.10	142.0	15.0	280.2	2.0	0	0.00	88.	1006.	2	NAD-SFC NoSubs
10	2	9	40	1	-2.3	0.076	-9.000	-9.000	-999.	51.	17.2	0.0280	0.72	1.00	1.00	129.0	15.0	280.1	2.0	0	0.00	88.	1006.	2	NAD-SFC NoSubs
10	2	9	40	2	-1.1	0.069	-9.000	-9.000	-999.	44.	27.6	0.0400	0.72	1.00	0.50	84.0	15.0	280.0	2.0	0	0.00	89.	1006.	2	NAD-SFC NoSubs
10	2	9	40	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	279.8	2.0	0	0.00	90.	1006.	2	NAD-SFC NoSubs
10	2	9	40	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	279.8	2.0	0	0.00	89.	1006.	2	NAD-SFC NoSubs
10	2	9	40	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	279.8	2.0	0	0.00	88.	1006.	2	NAD-SFC NoSubs
10	2	9	40	6	-1.0	0.067	-9.000	-9.000	-999.	41.	26.7	0.0310	0.72	1.00	0.50	98.0	15.0	279.9	2.0	0	0.00	87.	1006.	3	NAD-SFC NoSubs
10	2	9	40	7	-3.9	0.089	-9.000	-9.000	-999.	64.	16.2	0.0280	0.72	1.00	1.50	126.0	15.0	280.0	2.0	0	0.00	86.	1006.	4	NAD-SFC NoSubs
10	2	9	40	8	-6.9	0.155	-9.000	-9.000	-999.	146.	48.2	0.0280	0.72	0.49	2.60	137.0	15.0	280.2	2.0	0	0.00	85.	1006.	5	NAD-SFC NoSubs
10	2	9	40	9	31.5	0.191	0.466	0.005	115.	200.	-19.7	0.0240	0.72	0.29	2.60	160.0	15.0	281.1	2.0	0	0.00	83.	1005.	7	NAD-SFC NoSubs
10	2	9	40	10	54.9	0.169	0.750	0.005	276.	166.	-7.8	0.0240	0.72	0.22	2.10	171.0	15.0	282.5	2.0	0	0.00	75.	1005.	8	NAD-SFC NoSubs
10	2	9	40	11	76.2	0.102	0.984	0.005	447.	79.	-1.3	0.0220	0.72	0.20	1.00	181.0	15.0	283.9	2.0	0	0.00	63.	1004.	8	NAD-SFC NoSubs
10	2	9	40	12	29.2	0.158	0.740	0.005	497.	151.	-12.2	0.0220	0.72	0.19	2.10	224.0	15.0	284.2	2.0	0	0.00	61.	1004.	10	NAD-SFC NoSubs
10	2	9	40	13	89.7	0.233	1.161	0.005	624.	270.	-12.6	0.0220	0.72	0.19	3.10	209.0	15.0	283.5	2.0	0	0.25	68.	1003.	8	NAD-SFC NoSubs
10	2	9	40	14	81.7	0.205	1.180	0.005	720.	222.	-9.4	0.0240	0.72	0.20	2.60	156.0	15.0	283.0	2.0	0	0.51	74.	1003.	8	NAD-SFC NoSubs
10	2	9	40	15	19.9	0.222	0.744	0.005	741.	251.	-49.2	0.0310	0.72	0.21	3.10	117.0	15.0	282.6	2.0	0	0.51	79.	1003.	10	NAD-SFC NoSubs
10	2	9	40	16	46.5	0.260	1.009	0.005	790.	318.	-33.7	0.0280	0.72	0.25	3.60	128.0	15.0	282.8	2.0	0	0.51	84.	1002.	7	NAD-SFC NoSubs
10	2	9	40	17	-3.4	0.193	-9.000	-9.000	-999.	205.	191.7	0.0310	0.72	0.38	3.10	112.0	15.0	282.2	2.0	0	0.51	90.	1002.	10	NAD-SFC NoSubs

10	2	9	40	18	-9.2	0.164	-9.000	-9.000	-999.	159.	42.8	0.0400	0.72	1.00	2.60	87.0	15.0	282.0	2.0	0	0.76	92.	1003.	10	NAD-SFC	NoSubs
10	2	9	40	19	-0.9	0.065	-9.000	-9.000	-999.	46.	26.2	0.0650	0.72	1.00	0.50	47.0	15.0	281.8	2.0	0	0.51	94.	1003.	7	NAD-SFC	NoSubs
10	2	9	40	20	-4.7	0.104	-9.000	-9.000	-999.	80.	21.1	0.0800	0.72	1.00	1.50	309.0	15.0	281.8	2.0	0	0.25	94.	1003.	6	NAD-SFC	NoSubs
10	2	9	40	21	-4.7	0.104	-9.000	-9.000	-999.	80.	21.1	0.0800	0.72	1.00	1.50	316.0	15.0	281.8	2.0	0	0.00	94.	1004.	6	NAD-SFC	NoSubs
10	2	9	40	22	-3.8	0.092	-9.000	-9.000	-999.	67.	18.6	0.0420	0.72	1.00	1.50	285.0	15.0	281.4	2.0	0	0.00	95.	1004.	7	NAD-SFC	NoSubs
10	2	9	40	23	-3.7	0.103	-9.000	-9.000	-999.	80.	26.8	0.0800	0.72	1.00	1.50	325.0	15.0	281.2	2.0	0	0.00	95.	1005.	10	NAD-SFC	NoSubs
10	2	9	40	24	-14.8	0.191	-9.000	-9.000	-999.	200.	42.2	0.0950	0.72	1.00	2.60	331.0	15.0	281.1	2.0	0	0.00	96.	1005.	7	NAD-SFC	NoSubs
10	2	10	41	1	-22.7	0.230	-9.000	-9.000	-999.	264.	47.9	0.0960	0.72	1.00	3.10	5.0	15.0	280.5	2.0	0	0.00	100.	1005.	5	NAD-SFC	NoSubs
10	2	10	41	2	-10.4	0.151	-9.000	-9.000	-999.	142.	29.3	0.0960	0.72	1.00	2.10	29.0	15.0	279.9	2.0	0	0.00	100.	1006.	4	NAD-SFC	NoSubs
10	2	10	41	3	-10.4	0.150	-9.000	-9.000	-999.	140.	29.2	0.0950	0.72	1.00	2.10	350.0	15.0	279.9	2.0	0	0.00	100.	1006.	4	NAD-SFC	NoSubs
10	2	10	41	4	-16.2	0.189	-9.000	-9.000	-999.	198.	37.5	0.0950	0.72	1.00	2.60	331.0	15.0	279.9	2.0	0	0.00	100.	1007.	4	NAD-SFC	NoSubs
10	2	10	41	5	-9.9	0.145	-9.000	-9.000	-999.	133.	27.7	0.0800	0.72	1.00	2.10	316.0	15.0	279.6	2.0	0	0.00	100.	1007.	4	NAD-SFC	NoSubs
10	2	10	41	6	-2.7	0.084	-9.000	-9.000	-999.	59.	19.3	0.0800	0.72	1.00	1.00	305.0	15.0	279.2	2.0	0	0.00	97.	1008.	4	NAD-SFC	NoSubs
10	2	10	41	7	-3.7	0.086	-9.000	-9.000	-999.	60.	15.2	0.0200	0.72	1.00	1.50	241.0	15.0	279.0	2.0	0	0.00	96.	1009.	3	NAD-SFC	NoSubs
10	2	10	41	8	-2.5	0.081	-9.000	-9.000	-999.	55.	19.2	0.0200	0.72	0.48	1.50	249.0	15.0	279.2	2.0	0	0.00	88.	1010.	3	NAD-SFC	NoSubs
10	2	10	41	9	37.6	0.105	0.654	0.007	268.	82.	-2.8	0.0420	0.72	0.28	1.00	297.0	15.0	280.8	2.0	0	0.00	68.	1010.	3	NAD-SFC	NoSubs
10	2	10	41	10	82.1	0.074	0.957	0.006	385.	49.	-1.0	0.0420	0.72	0.22	0.50	290.0	15.0	281.9	2.0	0	0.00	62.	1011.	3	NAD-SFC	NoSubs
10	2	10	41	11	113.6	0.078	1.174	0.005	513.	52.	-1.0	0.0420	0.72	0.20	0.50	271.0	15.0	283.2	2.0	0	0.00	53.	1010.	2	NAD-SFC	NoSubs
10	2	10	41	12	131.8	0.079	1.322	0.005	631.	54.	-1.0	0.0420	0.72	0.19	0.50	282.0	15.0	284.5	2.0	0	0.00	47.	1009.	2	NAD-SFC	NoSubs
10	2	10	41	13	135.1	0.122	1.437	0.005	791.	102.	-1.2	0.0420	0.72	0.19	1.00	294.0	15.0	285.6	2.0	0	0.00	43.	1009.	2	NAD-SFC	NoSubs
10	2	10	41	14	123.3	0.120	1.471	0.005	929.	100.	-1.3	0.0420	0.72	0.20	1.00	289.0	15.0	286.4	2.0	0	0.00	39.	1008.	2	NAD-SFC	NoSubs
10	2	10	41	15	96.6	0.171	1.397	0.005	1015.	170.	-4.6	0.0800	0.72	0.21	1.50	313.0	15.0	286.8	2.0	0	0.00	38.	1008.	2	NAD-SFC	NoSubs
10	2	10	41	16	56.4	0.205	1.185	0.005	1060.	223.	-13.7	0.0800	0.72	0.25	2.10	325.0	15.0	286.8	2.0	0	0.00	39.	1007.	2	NAD-SFC	NoSubs
10	2	10	41	17	7.1	0.139	0.596	0.005	1064.	125.	-33.6	0.0950	0.72	0.38	1.50	338.0	15.0	286.4	2.0	0	0.00	45.	1007.	2	NAD-SFC	NoSubs
10	2	10	41	18	-2.9	0.087	-9.000	-9.000	-999.	62.	19.9	0.0950	0.72	1.00	1.00	354.0	15.0	285.5	2.0	0	0.00	49.	1007.	2	NAD-SFC	NoSubs
10	2	10	41	19	-1.3	0.075	-9.000	-9.000	-999.	49.	29.6	0.0950	0.72	1.00	0.50	360.0	15.0	284.4	2.0	0	0.00	54.	1007.	2	NAD-SFC	NoSubs
10	2	10	41	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	283.2	2.0	0	0.00	60.	1008.	2	NAD-SFC	NoSubs
10	2	10	41	21	-1.0	0.066	-9.000	-9.000	-999.	41.	26.3	0.0240	0.72	1.00	0.50	155.0	15.0	282.2	2.0	0	0.00	66.	1008.	2	NAD-SFC	NoSubs
10	2	10	41	22	-1.0	0.067	-9.000	-9.000	-999.	41.	26.7	0.0280	0.72	1.00	0.50	134.0	15.0	281.5	2.0	0	0.00	70.	1008.	2	NAD-SFC	NoSubs
10	2	10	41	23	-2.3	0.077	-9.000	-9.000	-999.	51.	17.4	0.0310	0.72	1.00	1.00	107.0	15.0	281.2	2.0	0	0.00	71.	1009.	2	NAD-SFC	NoSubs
10	2	10	41	24	-2.3	0.076	-9.000	-9.000	-999.	50.	17.2	0.0280	0.72	1.00	1.00	121.0	15.0	281.0	2.0	0	0.00	71.	1009.	2	NAD-SFC	NoSubs
10	2	11	42	1	-2.3	0.076	-9.000	-9.000	-999.	50.	17.2	0.0280	0.72	1.00	1.00	136.0	15.0	280.9	2.0	0	0.00	71.	1008.	2	NAD-SFC	NoSubs
10	2	11	42	2	-2.2	0.075	-9.000	-9.000	-999.	49.	16.9	0.0240	0.72	1.00	1.00	163.0	15.0	280.9	2.0	0	0.00	71.	1008.	2	NAD-SFC	NoSubs
10	2	11	42	3	-1.0	0.066	-9.000	-9.000	-999.	40.	26.1	0.0220	0.72	1.00	0.50	184.0	15.0	280.8	2.0	0	0.00	71.	1008.	2	NAD-SFC	NoSubs
10	2	11	42	4	-1.0	0.066	-9.000	-9.000	-999.	40.	26.1	0.0220	0.72	1.00	0.50	222.0	15.0	280.6	2.0	0	0.00	71.	1008.	2	NAD-SFC	NoSubs
10	2	11	42	5	-1.0	0.065	-9.000	-9.000	-999.	40.	25.9	0.0200	0.72	1.00	0.50	247.0	15.0	280.4	2.0	0	0.00	72.	1008.	2	NAD-SFC	NoSubs
10	2	11	42	6	-1.0	0.065	-9.000	-9.000	-999.	40.	25.9	0.0200	0.72	1.00	0.50	246.0	15.0	280.0	2.0	0	0.00	73.	1009.	2	NAD-SFC	NoSubs
10	2	11	42	7	-1.0	0.065	-9.000	-9.000	-999.	40.	25.9	0.0200	0.72	1.00	0.50	253.0	15.0	279.6	2.0	0	0.00	75.	1010.	2	NAD-SFC	NoSubs
10	2	11	42	8	-0.5	0.049	-9.000	-9.000	-999.	26.	20.7	0.0220	0.72	0.48	0.50	228.0	15.0	279.4	2.0	0	0.00	76.	1010.	2	NAD-SFC	NoSubs
10	2	11	42	9	37.2	0.067	0.568	0.005	177.	42.	-1.0	0.0420	0.72	0.28	0.50	283.0	15.0	280.6	2.0	0	0.00	72.	1011.	2	NAD-SFC	NoSubs
10	2	11	42	10	82.3	-9.000	-9.000	-9.000	354.	-999.	-99999.0	0.0471	0.72	0.22	0.00	0.0	15.0	282.0	2.0	0	0.00	67.	1011.	2	NAD-SFC	NoSubs
10	2	11	42	11	114.9	-9.000	-9.000	-9.000	586.	-999.	-99999.0	0.0471	0.72	0.20	0.00	0.0	15.0	283.5	2.0	0	0.00	59.	1011.	2	NAD-SFC	NoSubs
10	2	11	42	12	133.0	0.079	1.401	0.008	745.	54.	-1.0	0.0420	0.72	0.19	0.50	271.0	15.0	284.4	2.0	0	0.00	55.	1010.	2	NAD-SFC	NoSubs
10	2	11	42	13	136.2	0.108	1.481	0.009	860.	85.	-1.0	0.0200	0.72	0.19	1.00	268.0	15.0	285.0	2.0	0	0.00	52.	1010.	2	NAD-SFC	NoSubs
10	2	11	42	14	124.2	0.121	1.486	0.009	953.	100.	-1.3	0.0420	0.72	0.20	1.00	282.0	15.0	285.4	2.0	0	0.00	50.	1010.	2	NAD-SFC	NoSubs
10	2	11	42	15	97.6	0.131	1.395	0.009	1002.	114.	-2.1	0.0800	0.72	0.21	1.00	315.0	15.0	285.5	2.0	0	0.00	49.	1009.	2	NAD-SFC	NoSubs
10	2	11	42	16	57.3	0.080	1.178	0.009	1026.	55.	-1.0	0.0800	0.72	0.25	0.50	315.0	15.0	285.5	2.0	0	0.00	52.	1009.	2	NAD-SFC	NoSubs
10	2	11	42	17	7.8	-9.000	-9.000	-9.000	1029.	-999.	-99999.0	0.0471	0.72	0.37	0.00	0.0	15.0	285.2	2.0	0	0.00	54.	1009.	2	NAD-SFC	NoSubs
10	2	11	42	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	284.8	2.0	0	0.00	58.	1010.	2	NAD-SFC	NoSubs
10	2	11	42	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	284.2	2.0	0	0.00	62.	1010.	2	NAD-SFC	NoSubs
10	2	11	42	20	-1.0	0.066	-9.000	-9.000	-999.	40.	26.2	0.0240	0.72	1.00	0.50	173.0	15.0	283.6	2.0	0	0.00	66.	1011.	2	NAD-SFC	NoSubs
10	2	11	42	21	-2.2	0.075	-9.000	-9.000	-999.	49.	16.9	0.0240	0.72	1.00	1.00	171.0	15.0	283.1	2.0	0	0.00	68.	1011.	2	NAD-SFC	NoSubs
10	2	11	42	22	-1.0	0.067	-9.000	-9.000	-999.	41.	26.6	0.0280	0.72	1.00	0.50	146.0	15.0	282.4	2.0	0	0.00	71.	1012.	2	NAD-SFC	NoSubs
10	2	11	42	23	-1.1	0.069	-9.000	-9.000	-999.	43.	27.5	0.0400	0.72	1.00	0.50	86.0	15.0	281.6	2.0	0	0.00	75.	1012.	2	NAD-SFC	NoSubs
10	2	11	42	24	-2.5	0.079	-9.000	-9.000	-999.	53.	17.9	0.0400	0.72	1.00	1.00	84.0	15.0	280.8	2.0	0	0.00	79.	1012.	2	NAD-SFC	NoSubs
10	2	12	43	1	-1.1	0.069	-9.000	-9.000	-999.	44.	27.6	0.0400	0.72	1.00	0.50	89.0	15.0	280.1	2.0	0	0.00	82.	1012.	2	NAD-SFC	NoSubs
10	2	12	43	2	-1.0	0.068	-9.000	-9.000	-999.	42.	27.0	0.0310	0.72	1.00	0.50	109.0	15.0	279.6	2.0	0	0.00	84.	1012.	2	NAD-SFC	NoSubs
10	2	12	43	3	-1.0	0.067	-9.000	-9.000	-999.	42.	26.7	0.0280	0.72	1.00	0.50	134.0	15.0	279.1	2.0	0	0.00	86.	1012.	2	NAD-SFC	NoSubs
10	2	12	43	4	-2.3	0.076	-9.000	-9.000	-999.	50.	17.2	0.0280	0.72	1.00	1.00	141.0	15.0	278.8	2.0	0	0.00	86.	1012.	3	NAD-SFC	NoSubs
10	2	12	43	5	-2.3	0.076	-9.000	-9.000	-999.	50.	17.2	0.0280	0.72	1.00	1.00	129.0	15.0	278.4	2.0	0	0.00	87.	1012.	3	NAD-SFC	NoSubs
10	2	12	43	6	-2.3	0.076	-9.000	-9.000	-999.	50.	17.2	0.0280	0.72	1.00	1.00	122.0	15.0	278.1	2.0	0	0.00	87.	1012.	3	NAD-SFC	NoSubs
10	2	12	43	7	-2.3	0.076	-9.000	-9.000	-999.	50.	17.2	0.0280	0.72	1.00	1.00	123.0	15.0	277.8	2.0	0	0.00	88.	1012.	3	NAD-SFC	NoSubs
10	2	12	43	8	-1.2	0.060	-9.000	-9.000	-999.	35.	16.1	0.0280	0.72	0.47	1.00	122.0	15.0	278.2	2.0	0	0.00	86.	1012.	3	NAD-SFC	NoSubs
10	2	12	43	9	39.9	-9.000	-9.000	-9.000	92.	-999.	-99999.0	0.0471	0.72	0.28	0.00	0.0	15.0	281.6	2.0	0	0.00	68.	1012.	3	NAD-SFC	NoSubs
10	2	12	43	10	84.9	-9.000	-9.000	-9.000	304.	-999.	-99999.0	0.0471	0.72	0.22	0.00	0.0	15.0	283.9	2.0	0	0.00	59.	1012.	3	NAD-SFC	NoSubs
10	2	12	43	11	117.4	-9.000	-9.000	-9.000	480.	-999.	-99999.0	0.0471	0.72	0.20	0.00	0.0	15.0	285.9	2.0	0	0.00	50.	1012.	3	NAD-SFC	NoSubs
10	2	12	43	12	135.5	-9.000	-9.000	-9.000	613.	-999.	-99999.0	0.0471	0.72	0.19	0.00	0.0	15.0	287.2	2.0	0	0.00	46.	1011.	3	NAD-SFC	NoSubs
10	2	12	43	13	138.8	0.090	1.418	0.006	742.	65.	-1.0	0.0800	0.72	0.19	0.50	308.0	15.0	288.2	2.0	0	0.00	44.	1011.	3	NAD-SFC	NoSubs
10	2	12	43	14	127.1	0.135	1.443	0.006	852.	120.	-1.8	0.0800	0.72	0.19	1.00	321.0	15.0	289.0	2.0	0	0.00	43.	1010.	3	NAD-SFC	NoSubs
10	2	12	43	15	100.8	0.172	1.375	0.006	929.	171.	-4.5	0.0800	0.72	0.21	1.50	328.0	15.0	289.4	2.0	0	0.00	44.	1010.	3	NAD-SFC	NoSubs
10	2	12	43	16	60.8	0.213	1.179	0.006	972.	235.	-14.3	0.0950	0.72	0.25	2.10	354.0	15.0	289.2	2.0	0	0.00	45.	1010.	3	NAD-SFC	NoSubs
10	2	12	43	17	11.6	0.188	0.681	0.006	980.	195.	-51.2	0.0960	0.72	0.37	2.10	8.0	15.0	289.0	2.0	0	0.00	51.	1010.	3	NAD-SFC	NoSubs
10	2	12	43	18	-4.8	0.101	-9.000	-9.000	-999.	80.	19.2	0.0650	0.72	0.76	1.50	32.0	15.0	287.9	2.0	0	0.00	55.	1010.	3	NAD-SFC	NoSubs
10	2	12	43	19	-2.4	0.078	-9.000	-9.000	-999.	52.	17.8	0.0400	0.72	1.00	1.00	65.0	15.0	286.8	2.0	0	0.00	60.	1010.	3	NAD-SFC	NoSubs
10	2	12	43	20	-1.0	0.066	-9.000	-9.000	-999.	41.	26.5	0.0310	0.72	1.00	0.50	90.0	15.0	285.5	2.0	0	0.00	66.	1010.	3	NAD-SFC	NoSubs
10	2	12	43	21	-1.0	0.067	-9.000	-9.000	-999.	42.	26.8	0.0310	0.72	1.00	0.50	102.0	15.0	284.2	2.0	0	0.00	72.	1011.	2	NAD-SFC	NoSubs
10	2	12	43	22	-1.0	0.067	-9.000	-9.000	-999.	42.	26.8	0.0310	0.72	1.00	0.50	105.0	15.0	283.2	2.0	0	0.00	77.	1011.	2	NAD-SFC	NoSubs

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10  2 12  43 23   -1.0  0.067 -9.000 -9.000 -999.   42.     26.9  0.0310  0.72  1.00  0.50   98.0  15.0 282.2  2.0   0  0.00   82.  1012.    2 NAD-SFC NoSubs
10  2 12  43 24   -2.3  0.077 -9.000 -9.000 -999.   51.     17.4  0.0310  0.72  1.00  1.00  115.0  15.0 281.6  2.0   0  0.00   85.  1011.    2 NAD-SFC NoSubs
10  2 13  44  1   -2.3  0.076 -9.000 -9.000 -999.   50.     17.2  0.0280  0.72  1.00  1.00  124.0  15.0 281.0  2.0   0  0.00   86.  1011.    2 NAD-SFC NoSubs
10  2 13  44  2   -2.2  0.075 -9.000 -9.000 -999.   50.     17.1  0.0280  0.72  1.00  1.00  135.0  15.0 280.6  2.0   0  0.00   87.  1011.    3 NAD-SFC NoSubs
10  2 13  44  3   -1.0  0.066 -9.000 -9.000 -999.   41.     26.4  0.0280  0.72  1.00  0.50  129.0  15.0 280.2  2.0   0  0.00   88.  1011.    3 NAD-SFC NoSubs
10  2 13  44  4   -1.0  0.068 -9.000 -9.000 -999.   42.     27.0  0.0310  0.72  1.00  0.50  117.0  15.0 279.8  2.0   0  0.00   89.  1011.    2 NAD-SFC NoSubs
10  2 13  44  5   -1.0  0.067 -9.000 -9.000 -999.   42.     26.7  0.0280  0.72  1.00  0.50  124.0  15.0 279.2  2.0   0  0.00   91.  1011.    2 NAD-SFC NoSubs
10  2 13  44  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 278.9  2.0   0  0.00   92.  1011.    2 NAD-SFC NoSubs
10  2 13  44  7   -1.2  0.074 -9.000 -9.000 -999.   48.     29.4  0.0800  0.72  1.00  0.50  317.0  15.0 278.5  2.0   0  0.00   96.  1012.    2 NAD-SFC NoSubs
10  2 13  44  8   -7.5  0.155 -9.000 -9.000 -999.  146.     44.7  0.0950  0.72  0.47  2.10  330.0  15.0 279.1  2.0   0  0.00   98.  1012.    2 NAD-SFC NoSubs
10  2 13  44  9   39.4  0.241  0.459  0.005   88.  285.    -32.2  0.0950  0.72  0.28  2.60  339.0  15.0 279.9  2.0   0  0.00  100.  1012.    2 NAD-SFC NoSubs
10  2 13  44 10   84.4  0.256  0.895  0.005  307.  311.    -18.0  0.0950  0.72  0.22  2.60  341.0  15.0 280.4  2.0   0  0.00  100.  1012.    2 NAD-SFC NoSubs
10  2 13  44 11  116.7  0.180  1.244  0.008  596.  185.     -4.5  0.0950  0.72  0.20  1.50  334.0  15.0 280.4  2.0   0  0.00  100.  1012.    2 NAD-SFC NoSubs
10  2 13  44 12  134.7  0.177  1.407  0.010  746.  179.     -3.7  0.0800  0.72  0.19  1.50  321.0  15.0 280.6  2.0   0  0.00  100.  1011.    2 NAD-SFC NoSubs
10  2 13  44 13  137.8  0.178  1.481  0.011  850.  180.     -3.7  0.0800  0.72  0.19  1.50  319.0  15.0 281.2  2.0   0  0.00   98.  1010.    2 NAD-SFC NoSubs
10  2 13  44 14  126.2  0.182  1.486  0.011  937.  186.     -4.3  0.0950  0.72  0.19  1.50  337.0  15.0 283.1  2.0   0  0.00   89.  1009.    2 NAD-SFC NoSubs
10  2 13  44 15   99.9 -9.000 -9.000 -9.000  989. -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0 285.1  2.0   0  0.00   78.  1009.    2 NAD-SFC NoSubs
10  2 13  44 16   59.7  0.168  1.188  0.012 1010.  165.     -7.1  0.0960  0.72  0.25  1.50   19.0  15.0 285.8  2.0   0  0.00   74.  1008.    2 NAD-SFC NoSubs
10  2 13  44 17    9.9  0.174  0.654  0.012 1013.  174.    -47.5  0.0650  0.72  0.36  2.10   40.0  15.0 285.4  2.0   0  0.00   78.  1008.    2 NAD-SFC NoSubs
10  2 13  44 18   -4.4  0.094 -9.000 -9.000 -999.   72.     17.2  0.0400  0.72  0.75  1.50   65.0  15.0 284.4  2.0   0  0.00   83.  1009.    2 NAD-SFC NoSubs
10  2 13  44 19   -1.0  0.067 -9.000 -9.000 -999.   42.     26.8  0.0310  0.72  1.00  0.50   94.0  15.0 283.4  2.0   0  0.00   88.  1009.    2 NAD-SFC NoSubs
10  2 13  44 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 282.5  2.0   0  0.00   93.  1009.    2 NAD-SFC NoSubs
10  2 13  44 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 281.8  2.0   0  0.00   98.  1009.    2 NAD-SFC NoSubs
10  2 13  44 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 280.8  2.0   0  0.00  100.  1010.    2 NAD-SFC NoSubs
10  2 13  44 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 278.2  2.0   0  0.00  100.  1010.    2 NAD-SFC NoSubs
10  2 13  44 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 277.2  2.0   0  0.00  100.  1010.    2 NAD-SFC NoSubs
10  2 14  45  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 276.6  2.0   0  0.00  100.  1010.    2 NAD-SFC NoSubs
10  2 14  45  2   -1.1  0.069 -9.000 -9.000 -999.   44.     27.7  0.0400  0.72  1.00  0.50   82.0  15.0 276.8  2.0   0  0.00  100.  1010.    2 NAD-SFC NoSubs
10  2 14  45  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 276.6  2.0   0  0.00  100.  1010.    2 NAD-SFC NoSubs
10  2 14  45  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 276.5  2.0   0  0.00  100.  1010.    2 NAD-SFC NoSubs
10  2 14  45  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 276.4  2.0   0  0.00  100.  1010.    2 NAD-SFC NoSubs
10  2 14  45  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 276.5  2.0   0  0.00  100.  1011.    2 NAD-SFC NoSubs
10  2 14  45  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 276.8  2.0   0  0.00  100.  1011.    2 NAD-SFC NoSubs
10  2 14  45  8   -0.6  0.053 -9.000 -9.000 -999.   29.     22.6  0.0950  0.72  0.46  0.50  334.0  15.0 277.5  2.0   0  0.00  100.  1011.    2 NAD-SFC NoSubs
10  2 14  45  9   40.5  0.079  0.412  0.019   62.   53.     -1.1  0.0950  0.72  0.28  0.50  333.0  15.0 279.6  2.0   0  0.00   93.  1011.    2 NAD-SFC NoSubs
10  2 14  45 10   86.1 -9.000 -9.000 -9.000  140. -999. -99999.0  0.0471  0.72  0.22  0.00    0.0  15.0 283.0  2.0   0  0.00   78.  1011.    2 NAD-SFC NoSubs
10  2 14  45 11  119.1  0.088  0.979  0.012  284.   63.     -1.0  0.0800  0.72  0.20  0.50  318.0  15.0 285.8  2.0   0  0.00   65.  1010.    2 NAD-SFC NoSubs
10  2 14  45 12  137.6  0.178  1.165  0.012  414.  180.     -3.7  0.0800  0.72  0.19  1.50  324.0  15.0 287.5  2.0   0  0.00   57.  1009.    2 NAD-SFC NoSubs
10  2 14  45 13  140.9  0.178  1.277  0.012  532.  180.     -3.6  0.0800  0.72  0.19  1.50  322.0  15.0 288.8  2.0   0  0.00   53.  1009.    2 NAD-SFC NoSubs
10  2 14  45 14  129.2  0.222  1.307  0.011  622.  251.     -7.6  0.0800  0.72  0.19  2.10  317.0  15.0 289.6  2.0   0  0.00   50.  1008.    2 NAD-SFC NoSubs
10  2 14  45 15  102.6  0.224  1.247  0.011  679.  254.     -9.8  0.0950  0.72  0.21  2.10  335.0  15.0 290.0  2.0   0  0.00   48.  1008.    2 NAD-SFC NoSubs
10  2 14  45 16   62.6  0.250  1.074  0.010  710.  301.    -22.5  0.0950  0.72  0.24  2.60  333.0  15.0 291.2  2.0   0  0.00   45.  1007.    2 NAD-SFC NoSubs
10  2 14  45 17   12.5  0.225  0.629  0.010  714.  256.    -81.5  0.0950  0.72  0.36  2.60  333.0  15.0 290.5  2.0   0  0.00   48.  1008.    2 NAD-SFC NoSubs
10  2 14  45 18  -22.4  0.220 -9.000 -9.000 -999.  248.     42.9  0.0800  0.72  0.74  3.10  326.0  15.0 289.6  2.0   0  0.00   50.  1008.    2 NAD-SFC NoSubs
10  2 14  45 19  -22.5  0.220 -9.000 -9.000 -999.  248.     42.8  0.0800  0.72  1.00  3.10  329.0  15.0 288.5  2.0   0  0.00   53.  1008.    2 NAD-SFC NoSubs
10  2 14  45 20  -15.6  0.182 -9.000 -9.000 -999.  187.     34.8  0.0800  0.72  1.00  2.60  317.0  15.0 287.8  2.0   0  0.00   54.  1008.    2 NAD-SFC NoSubs
10  2 14  45 21  -10.0  0.145 -9.000 -9.000 -999.  132.     27.1  0.0800  0.72  1.00  2.10  321.0  15.0 287.1  2.0   0  0.00   55.  1009.    2 NAD-SFC NoSubs
10  2 14  45 22  -10.0  0.145 -9.000 -9.000 -999.  132.     27.1  0.0800  0.72  1.00  2.10  328.0  15.0 286.6  2.0   0  0.00   55.  1009.    2 NAD-SFC NoSubs
10  2 14  45 23  -10.1  0.145 -9.000 -9.000 -999.  132.     27.1  0.0800  0.72  1.00  2.10  328.0  15.0 286.2  2.0   0  0.00   56.  1009.    2 NAD-SFC NoSubs
10  2 14  45 24   -5.2  0.105 -9.000 -9.000 -999.   82.     20.0  0.0800  0.72  1.00  1.50  323.0  15.0 285.9  2.0   0  0.00   58.  1009.    2 NAD-SFC NoSubs
10  2 15  46  1   -2.8  0.085 -9.000 -9.000 -999.   59.     19.5  0.0800  0.72  1.00  1.00  303.0  15.0 285.6  2.0   0  0.00   59.  1009.    2 NAD-SFC NoSubs
10  2 15  46  2   -2.1  0.073 -9.000 -9.000 -999.   48.     16.6  0.0200  0.72  1.00  1.00  262.0  15.0 285.2  2.0   0  0.00   60.  1009.    2 NAD-SFC NoSubs
10  2 15  46  3   -0.9  0.065 -9.000 -9.000 -999.   39.     25.8  0.0200  0.72  1.00  0.50  262.0  15.0 284.9  2.0   0  0.00   62.  1009.    2 NAD-SFC NoSubs
10  2 15  46  4   -1.1  0.069 -9.000 -9.000 -999.   43.     27.5  0.0420  0.72  1.00  0.50  290.0  15.0 284.2  2.0   0  0.00   64.  1009.    2 NAD-SFC NoSubs
10  2 15  46  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 283.8  2.0   0  0.00   67.  1009.    2 NAD-SFC NoSubs
10  2 15  46  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 283.0  2.0   0  0.00   71.  1009.    2 NAD-SFC NoSubs
10  2 15  46  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 282.4  2.0   0  0.00   74.  1009.    2 NAD-SFC NoSubs
10  2 15  46  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.45  0.00    0.0  15.0 282.4  2.0   0  0.00   75.  1009.    2 NAD-SFC NoSubs
10  2 15  46  9   42.8  0.068  0.572  0.009  157.   43.     -1.0  0.0420  0.72  0.27  0.50  286.0  15.0 285.2  2.0   0  0.00   63.  1009.    2 NAD-SFC NoSubs
10  2 15  46 10   88.4  0.075  0.913  0.009  310.   49.     -1.0  0.0420  0.72  0.22  0.50  288.0  15.0 287.1  2.0   0  0.00   57.  1008.    2 NAD-SFC NoSubs
10  2 15  46 11  121.3  0.120  1.158  0.010  461.  100.     -1.3  0.0420  0.72  0.20  1.00  296.0  15.0 288.8  2.0   0  0.00   51.  1008.    2 NAD-SFC NoSubs
10  2 15  46 12  139.6  0.178  1.326  0.010  601.  180.     -3.6  0.0800  0.72  0.19  1.50  315.0  15.0 290.0  2.0   0  0.00   48.  1007.    2 NAD-SFC NoSubs
10  2 15  46 13  143.1  0.178  1.406  0.010  698.  181.     -3.6  0.0800  0.72  0.19  1.50  308.0  15.0 291.2  2.0   0  0.00   43.  1006.    2 NAD-SFC NoSubs
10  2 15  46 14  131.3  0.177  1.408  0.009  762.  179.     -3.8  0.0800  0.72  0.19  1.50  322.0  15.0 291.9  2.0   0  0.00   42.  1005.    2 NAD-SFC NoSubs
10  2 15  46 15  104.6  0.173  1.332  0.009  810.  172.     -4.4  0.0800  0.72  0.21  1.50  328.0  15.0 292.2  2.0   0  0.00   42.  1005.    2 NAD-SFC NoSubs
10  2 15  46 16   64.2  0.169  1.145  0.008  838.  166.     -6.7  0.0950  0.72  0.24  1.50  336.0  15.0 292.2  2.0   0  0.00   43.  1004.    2 NAD-SFC NoSubs
10  2 15  46 17   14.1  0.109  0.692  0.008  843.   87.     -8.2  0.0950  0.72  0.36  1.00  334.0  15.0 292.0  2.0   0  0.00   48.  1004.    2 NAD-SFC NoSubs
10  2 15  46 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.73  0.00    0.0  15.0 291.0  2.0   0  0.00   53.  1004.    2 NAD-SFC NoSubs
10  2 15  46 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 289.6  2.0   0  0.00   59.  1005.    2 NAD-SFC NoSubs
10  2 15  46 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 288.4  2.0   0  0.00   65.  1005.    2 NAD-SFC NoSubs
10  2 15  46 21   -1.0  0.066 -9.000 -9.000 -999.   41.     26.5  0.0280  0.72  1.00  0.50  121.0  15.0 287.2  2.0   0  0.00   70.  1005.    2 NAD-SFC NoSubs
10  2 15  46 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 286.4  2.0   0  0.00   75.  1006.    2 NAD-SFC NoSubs
10  2 15  46 23   -1.2  0.073 -9.000 -9.000 -999.   48.     29.1  0.0800  0.72  1.00  0.50  320.0  15.0 285.8  2.0   0  0.00   77.  1006.    2 NAD-SFC NoSubs
10  2 15  46 24   -1.2  0.073 -9.000 -9.000 -999.   48.     29.2  0.0800  0.72  1.00  0.50  304.0  15.0 285.4  2.0   0  0.00   77.  1007.    2 NAD-SFC NoSubs
10  2 16  47  1   -0.9  0.065 -9.000 -9.000 -999.   39.     25.8  0.0200  0.72  1.00  0.50  265.0  15.0 285.2  2.0   0  0.00   76.  1007.    2 NAD-SFC NoSubs
10  2 16  47  2   -3.8  0.086 -9.000 -9.000 -999.   61.     15.2  0.0200  0.72  1.00  1.50  261.0  15.0 284.9  2.0   0  0.00   77.  1007.    2 NAD-SFC NoSubs
10  2 16  47  3   -6.9  0.113 -9.000 -9.000 -999.   92.     18.9  0.0200  0.72  1.00  2.10  262.0  15.0 284.5  2.0   0  0.00   78.  1007.    2 NAD-SFC NoSubs
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10  2 16  47  4  -13.0  0.161 -9.000 -9.000 -999.  155.     28.8  0.0420  0.72  1.00   2.60  274.0  15.0  284.1  2.0   0  0.00  79.  1007.   2 NAD-SFC NoSubs
10  2 16  47  5  -13.0  0.161 -9.000 -9.000 -999.  155.     28.8  0.0420  0.72  1.00   2.60  271.0  15.0  283.8  2.0   0  0.00  80.  1007.   2 NAD-SFC NoSubs
10  2 16  47  6   -6.9  0.113 -9.000 -9.000 -999.   92.     18.9  0.0200  0.72  1.00   2.10  269.0  15.0  283.6  2.0   0  0.00  80.  1008.   2 NAD-SFC NoSubs
10  2 16  47  7   -3.8  0.086 -9.000 -9.000 -999.   61.     15.2  0.0200  0.72  1.00   1.50  265.0  15.0  283.5  2.0   0  0.00  79.  1008.   2 NAD-SFC NoSubs
10  2 16  47  8   -2.0  0.082 -9.000 -9.000 -999.   56.     24.7  0.0200  0.72  0.45   1.50  240.0  15.0  283.8  2.0   0  0.00  77.  1008.   2 NAD-SFC NoSubs
10  2 16  47  9   43.9  0.126  0.548  0.009  135.  107.     -4.1  0.0200  0.72  0.27   1.50  268.0  15.0  284.8  2.0   0  0.00  71.  1008.   2 NAD-SFC NoSubs
10  2 16  47 10   89.4  0.170  0.880  0.007  274.  168.     -4.9  0.0800  0.72  0.21   1.50  304.0  15.0  286.2  2.0   0  0.00  63.  1008.   2 NAD-SFC NoSubs
10  2 16  47 11  122.2  0.135  1.133  0.005  428.  119.     -1.8  0.0800  0.72  0.20   1.00  305.0  15.0  287.8  2.0   0  0.00  57.  1008.   2 NAD-SFC NoSubs
10  2 16  47 12  140.7  0.137  1.334  0.005  606.  122.     -1.6  0.0800  0.72  0.19   1.00  302.0  15.0  289.4  2.0   0  0.00  50.  1006.   2 NAD-SFC NoSubs
10  2 16  47 13  144.0  0.138  1.460  0.006  776.  123.     -1.6  0.0800  0.72  0.19   1.00  313.0  15.0  290.4  2.0   0  0.00  48.  1005.   2 NAD-SFC NoSubs
10  2 16  47 14  132.2  0.183  1.500  0.006  917.  187.     -4.1  0.0950  0.72  0.19   1.50  335.0  15.0  291.0  2.0   0  0.00  47.  1005.   2 NAD-SFC NoSubs
10  2 16  47 15  105.5  0.224  1.435  0.007 1003.  255.     -9.6  0.0950  0.72  0.21   2.10  346.0  15.0  291.2  2.0   0  0.00  47.  1004.   2 NAD-SFC NoSubs
10  2 16  47 16   64.9  0.252  1.237  0.007 1044.  303.    -21.9  0.0960  0.72  0.24   2.60   10.0  15.0  290.9  2.0   0  0.00  53.  1003.   2 NAD-SFC NoSubs
10  2 16  47 17   14.5  0.227  0.752  0.007 1052.  259.    -72.2  0.0960  0.72  0.35   2.60   22.0  15.0  290.2  2.0   0  0.00  57.  1003.   2 NAD-SFC NoSubs
10  2 16  47 18   -5.4  0.108 -9.000 -9.000 -999.   94.     21.0  0.0960  0.72  0.72   1.50   19.0  15.0  289.2  2.0   0  0.00  61.  1004.   2 NAD-SFC NoSubs
10  2 16  47 19   -0.9  0.064 -9.000 -9.000 -999.   40.     25.7  0.0200  0.72  1.00   0.50  262.0  15.0  288.2  2.0   0  0.00  66.  1004.   2 NAD-SFC NoSubs
10  2 16  47 20   -0.9  0.065 -9.000 -9.000 -999.   40.     25.9  0.0220  0.72  1.00   0.50  234.0  15.0  287.2  2.0   0  0.00  71.  1004.   2 NAD-SFC NoSubs
10  2 16  47 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  286.5  2.0   0  0.00  75.  1005.   2 NAD-SFC NoSubs
10  2 16  47 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  286.2  2.0   0  0.00  77.  1005.   2 NAD-SFC NoSubs
10  2 16  47 23   -1.3  0.075 -9.000 -9.000 -999.   49.     29.6  0.0950  0.72  1.00   0.50  341.0  15.0  286.1  2.0   0  0.00  77.  1006.   2 NAD-SFC NoSubs
10  2 16  47 24   -2.9  0.086 -9.000 -9.000 -999.   61.     19.9  0.0950  0.72  1.00   1.00  344.0  15.0  286.1  2.0   0  0.00  77.  1006.   2 NAD-SFC NoSubs
10  2 17  48  1   -1.1  0.069 -9.000 -9.000 -999.   43.     27.5  0.0420  0.72  1.00   0.50  296.0  15.0  286.0  2.0   0  0.00  77.  1006.   2 NAD-SFC NoSubs
10  2 17  48  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  285.6  2.0   0  0.00  79.  1006.   2 NAD-SFC NoSubs
10  2 17  48  3   -1.1  0.069 -9.000 -9.000 -999.   43.     27.5  0.0420  0.72  1.00   0.50  281.0  15.0  285.0  2.0   0  0.00  81.  1006.   2 NAD-SFC NoSubs
10  2 17  48  4   -4.4  0.095 -9.000 -9.000 -999.   70.     17.4  0.0420  0.72  1.00   1.50  294.0  15.0  284.5  2.0   0  0.00  80.  1006.   2 NAD-SFC NoSubs
10  2 17  48  5  -18.7  0.195 -9.000 -9.000 -999.  206.     35.4  0.0420  0.72  1.00   3.10  291.0  15.0  284.1  2.0   0  0.00  79.  1006.   2 NAD-SFC NoSubs
10  2 17  48  6   -8.3  0.128 -9.000 -9.000 -999.  111.     22.6  0.0420  0.72  1.00   2.10  287.0  15.0  283.9  2.0   0  0.00  78.  1006.   2 NAD-SFC NoSubs
10  2 17  48  7   -4.4  0.095 -9.000 -9.000 -999.   70.     17.4  0.0420  0.72  1.00   1.50  285.0  15.0  283.8  2.0   0  0.00  77.  1006.   2 NAD-SFC NoSubs
10  2 17  48  8   -2.3  0.094 -9.000 -9.000 -999.   69.     32.4  0.0420  0.72  0.44   1.50  281.0  15.0  283.9  2.0   0  0.00  76.  1006.   2 NAD-SFC NoSubs
10  2 17  48  9   45.4  0.158  0.565  0.009  142.  151.     -7.8  0.0800  0.72  0.27   1.50  308.0  15.0  285.8  2.0   0  0.00  66.  1006.   2 NAD-SFC NoSubs
10  2 17  48 10   91.1  0.116  0.927  0.008  314.   95.     -1.5  0.0420  0.72  0.21   1.00  291.0  15.0  287.5  2.0   0  0.00  60.  1006.   2 NAD-SFC NoSubs
10  2 17  48 11  124.1  0.121  1.173  0.007  466.  101.     -1.3  0.0420  0.72  0.20   1.00  285.0  15.0  289.6  2.0   0  0.00  51.  1005.   2 NAD-SFC NoSubs
10  2 17  48 12  142.5  0.137  1.326  0.007  587.  122.     -1.6  0.0800  0.72  0.19   1.00  304.0  15.0  291.0  2.0   0  0.00  47.  1004.   2 NAD-SFC NoSubs
10  2 17  48 13  146.0  0.138  1.423  0.006  706.  123.     -1.6  0.0800  0.72  0.19   1.00  318.0  15.0  292.2  2.0   0  0.00  44.  1003.   2 NAD-SFC NoSubs
10  2 17  48 14  134.2  0.183  1.461  0.006  831.  188.     -4.1  0.0950  0.72  0.19   1.50  334.0  15.0  293.1  2.0   0  0.00  41.  1002.   2 NAD-SFC NoSubs
10  2 17  48 15  107.6  0.225  1.403  0.006  918.  256.     -9.5  0.0950  0.72  0.20   2.10  354.0  15.0  293.6  2.0   0  0.00  40.  1002.   2 NAD-SFC NoSubs
10  2 17  48 16   67.1  0.252  1.220  0.006  968.  304.    -21.4  0.0960  0.72  0.24   2.60    2.0  15.0  293.5  2.0   0  0.00  41.  1002.   2 NAD-SFC NoSubs
10  2 17  48 17   16.5  0.192  0.769  0.006  980.  204.    -38.4  0.0960  0.72  0.35   2.10    9.0  15.0  293.0  2.0   0  0.00  47.  1001.   2 NAD-SFC NoSubs
10  2 17  48 18   -5.4  0.108 -9.000 -9.000 -999.   88.     21.1  0.0960  0.72  0.71   1.50   29.0  15.0  291.8  2.0   0  0.00  52.  1002.   2 NAD-SFC NoSubs
10  2 17  48 19   -1.0  0.068 -9.000 -9.000 -999.   43.     27.2  0.0400  0.72  1.00   0.50   84.0  15.0  290.5  2.0   0  0.00  58.  1002.   2 NAD-SFC NoSubs
10  2 17  48 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  289.2  2.0   0  0.00  64.  1002.   2 NAD-SFC NoSubs
10  2 17  48 21   -0.9  0.065 -9.000 -9.000 -999.   40.     25.9  0.0220  0.72  1.00   0.50  200.0  15.0  288.1  2.0   0  0.00  69.  1002.   2 NAD-SFC NoSubs
10  2 17  48 22   -2.1  0.074 -9.000 -9.000 -999.   48.     16.7  0.0220  0.72  1.00   1.00  202.0  15.0  287.2  2.0   0  0.00  72.  1002.   2 NAD-SFC NoSubs
10  2 17  48 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  286.4  2.0   0  0.00  74.  1002.   2 NAD-SFC NoSubs
10  2 17  48 24   -1.2  0.072 -9.000 -9.000 -999.   46.     28.6  0.0650  0.72  1.00   0.50   46.0  15.0  285.6  2.0   0  0.00  77.  1002.   2 NAD-SFC NoSubs
10  2 18  49  1   -2.4  0.078 -9.000 -9.000 -999.   53.     17.9  0.0400  0.72  1.00   1.00   63.0  15.0  284.9  2.0   0  0.00  80.  1002.   2 NAD-SFC NoSubs
10  2 18  49  2   -2.4  0.078 -9.000 -9.000 -999.   53.     17.9  0.0400  0.72  1.00   1.00   63.0  15.0  284.4  2.0   0  0.00  82.  1002.   2 NAD-SFC NoSubs
10  2 18  49  3   -1.1  0.069 -9.000 -9.000 -999.   43.     27.4  0.0400  0.72  1.00   0.50   63.0  15.0  284.0  2.0   0  0.00  83.  1002.   2 NAD-SFC NoSubs
10  2 18  49  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  283.5  2.0   0  0.00  85.  1002.   2 NAD-SFC NoSubs
10  2 18  49  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  283.0  2.0   0  0.00  87.  1002.   2 NAD-SFC NoSubs
10  2 18  49  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  282.6  2.0   0  0.00  88.  1002.   2 NAD-SFC NoSubs
10  2 18  49  7   -1.2  0.074 -9.000 -9.000 -999.   48.     29.3  0.0800  0.72  1.00   0.50  300.0  15.0  282.2  2.0   0  0.00  88.  1003.   2 NAD-SFC NoSubs
10  2 18  49  8   -1.1  0.069 -9.000 -9.000 -999.   43.     26.1  0.0800  0.72  0.44   1.00  304.0  15.0  282.8  2.0   0  0.00  85.  1003.   2 NAD-SFC NoSubs
10  2 18  49  9   46.7  0.159  0.493  0.008   92.  152.     -7.6  0.0800  0.72  0.27   1.50  308.0  15.0  285.9  2.0   0  0.00  71.  1003.   2 NAD-SFC NoSubs
10  2 18  49 10   92.4  0.131  0.889  0.007  272.  113.     -2.2  0.0800  0.72  0.21   1.00  308.0  15.0  287.8  2.0   0  0.00  66.  1003.   2 NAD-SFC NoSubs
10  2 18  49 11  125.4  0.079  1.177  0.007  465.   54.     -1.0  0.0420  0.72  0.20   0.50  299.0  15.0  289.8  2.0   0  0.00  59.  1002.   2 NAD-SFC NoSubs
10  2 18  49 12  143.8  0.080  1.355  0.006  618.   55.     -1.0  0.0420  0.72  0.19   0.50  297.0  15.0  290.9  2.0   0  0.00  55.  1001.   2 NAD-SFC NoSubs
10  2 18  49 13  147.0  0.160  1.456  0.005  750.  154.     -2.5  0.0420  0.72  0.19   1.50  296.0  15.0  291.8  2.0   0  0.00  53.  1001.   2 NAD-SFC NoSubs
10  2 18  49 14  135.1  0.200  1.479  0.005  856.  215.     -5.3  0.0420  0.72  0.19   2.10  297.0  15.0  292.1  2.0   0  0.00  51.  1000.   2 NAD-SFC NoSubs
10  2 18  49 15  108.3  0.218  1.414  0.005  932.  245.     -8.6  0.0800  0.72  0.20   2.10  321.0  15.0  292.2  2.0   0  0.00  51.  1000.   2 NAD-SFC NoSubs
10  2 18  49 16   67.8  0.208  1.230  0.005  979.  229.    -11.9  0.0800  0.72  0.24   2.10  316.0  15.0  292.1  2.0   0  0.00  56.  1000.   2 NAD-SFC NoSubs
10  2 18  49 17   17.0  0.149  0.781  0.005  998.  138.    -17.2  0.0950  0.72  0.35   1.50  339.0  15.0  291.6  2.0   0  0.00  58.  1000.   2 NAD-SFC NoSubs
10  2 18  49 18   -2.8  0.085 -9.000 -9.000 -999.   61.     19.8  0.0950  0.72  0.70   1.00  353.0  15.0  290.8  2.0   0  0.00  61.  1000.   2 NAD-SFC NoSubs
10  2 18  49 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  290.0  2.0   0  0.00  66.  1000.   2 NAD-SFC NoSubs
10  2 18  49 20   -2.1  0.073 -9.000 -9.000 -999.   47.     16.6  0.0220  0.72  1.00   1.00  234.0  15.0  289.1  2.0   0  0.00  71.  1000.   3 NAD-SFC NoSubs
10  2 18  49 21  -15.1  0.172 -9.000 -9.000 -999.  171.     30.0  0.0200  0.72  1.00   3.10  258.0  15.0  288.4  2.0   0  0.00  73.  1000.   3 NAD-SFC NoSubs
10  2 18  49 22  -27.5  0.262 -9.000 -9.000 -999.  322.     58.6  0.0420  0.72  1.00   4.10  273.0  15.0  287.0  2.0   0  0.00  81.  1000.   3 NAD-SFC NoSubs
10  2 18  49 23  -31.1  0.296 -9.000 -9.000 -999.  386.     74.3  0.0420  0.72  1.00   4.60  282.0  15.0  286.1  2.0   0  0.00  86.  1001.   3 NAD-SFC NoSubs
10  2 18  49 24  -27.6  0.262 -9.000 -9.000 -999.  323.     58.3  0.0420  0.72  1.00   4.10  295.0  15.0  285.6  2.0   0  0.00  88.  1001.   3 NAD-SFC NoSubs
10  2 19  50  1  -27.7  0.262 -9.000 -9.000 -999.  322.     58.2  0.0420  0.72  1.00   4.10  289.0  15.0  285.2  2.0   0  0.00  88.  1001.   3 NAD-SFC NoSubs
10  2 19  50  2  -23.3  0.229 -9.000 -9.000 -999.  263.     46.0  0.0420  0.72  1.00   3.60  289.0  15.0  285.1  2.0   0  0.00  87.  1001.   4 NAD-SFC NoSubs
10  2 19  50  3  -22.2  0.229 -9.000 -9.000 -999.  263.     48.5  0.0420  0.72  1.00   3.60  278.0  15.0  284.9  2.0   0  0.00  87.  1002.   5 NAD-SFC NoSubs
10  2 19  50  4  -11.0  0.199 -9.000 -9.000 -999.  213.     63.7  0.0420  0.72  1.00   3.10  276.0  15.0  284.8  2.0   0  0.00  87.  1002.  10 NAD-SFC NoSubs
10  2 19  50  5   -9.1  0.165 -9.000 -9.000 -999.  161.     44.0  0.0420  0.72  1.00   2.60  279.0  15.0  284.8  2.0   0  0.00  86.  1002.  10 NAD-SFC NoSubs
10  2 19  50  6   -6.1  0.131 -9.000 -9.000 -999.  114.     33.3  0.0420  0.72  1.00   2.10  278.0  15.0  285.0  2.0   0  0.00  86.  1003.  10 NAD-SFC NoSubs
10  2 19  50  7   -3.0  0.091 -9.000 -9.000 -999.   67.     22.6  0.0420  0.72  1.00   1.50  280.0  15.0  285.1  2.0   0  0.00  85.  1003.  10 NAD-SFC NoSubs
10  2 19  50  8   -0.3  0.037 -9.000 -9.000 -999.   18.     16.8  0.0200  0.72  0.43   0.50  247.0  15.0  285.1  2.0   0  0.00  85.  1003.  10 NAD-SFC NoSubs
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10  2 19  50  9    8.7  0.110  0.278  0.005   88.   87.    -13.7  0.0200  0.72  0.26  1.50  264.0  15.0  285.4  2.0   0  0.00   82.  1003.   10 NAD-SFC NoSubs
10  2 19  50 10   91.2  0.152  0.976  0.005  365.  142.     -3.4  0.0420  0.72  0.21  1.50  271.0  15.0  286.1  2.0   0  0.00   76.  1003.    5 NAD-SFC NoSubs
10  2 19  50 11  125.3 -9.000 -9.000 -9.000  659. -999. -99999.0  0.0471  0.72  0.19  0.00    0.0  15.0  286.8  2.0   0  0.00   72.  1002.    4 NAD-SFC NoSubs
10  2 19  50 12  143.0 -9.000 -9.000 -9.000  814. -999. -99999.0  0.0471  0.72  0.19  0.00    0.0  15.0  287.8  2.0   0  0.00   69.  1001.    4 NAD-SFC NoSubs
10  2 19  50 13  147.5 -9.000 -9.000 -9.000  948. -999. -99999.0  0.0471  0.72  0.19  0.00    0.0  15.0  288.1  2.0   0  0.00   66.  1001.    3 NAD-SFC NoSubs
10  2 19  50 14  135.7  0.086  1.599  0.006 1077.   61.    -1.0  0.0650  0.72  0.19  0.50   52.0  15.0  288.8  2.0   0  0.00   64.  1000.    3 NAD-SFC NoSubs
10  2 19  50 15  109.2  0.128  1.532  0.006 1175.  110.    -1.7  0.0650  0.72  0.20  1.00   47.0  15.0  289.1  2.0   0  0.00   62.   999.    3 NAD-SFC NoSubs
10  2 19  50 16   64.2  0.214  1.304  0.007 1230.  238.   -13.7  0.0960  0.72  0.24  2.10   27.0  15.0  289.8  2.0   0  0.00   59.   998.    6 NAD-SFC NoSubs
10  2 19  50 17   19.9  0.182  0.886  0.007 1245.  187.   -27.0  0.0650  0.72  0.34  2.10   34.0  15.0  289.2  2.0   0  0.00   66.   998.    6 NAD-SFC NoSubs
10  2 19  50 18   -2.3  0.079 -9.000 -9.000 -999.   60.    19.3  0.0950  0.72  0.68  1.00  347.0  15.0  288.1  2.0   0  0.00   73.   999.    7 NAD-SFC NoSubs
10  2 19  50 19   -3.7  0.092 -9.000 -9.000 -999.   67.    18.8  0.0420  0.72  1.00  1.50  272.0  15.0  287.1  2.0   0  0.25   81.   999.    7 NAD-SFC NoSubs
10  2 19  50 20   -9.1  0.165 -9.000 -9.000 -999.  161.    44.2  0.0420  0.72  1.00  2.60  280.0  15.0  286.2  2.0   0  1.52   90.   999.   10 NAD-SFC NoSubs
10  2 19  50 21  -16.7  0.223 -9.000 -9.000 -999.  252.    59.1  0.0800  0.72  1.00  3.10  318.0  15.0  285.8  2.0   0  1.78   94.  1000.    8 NAD-SFC NoSubs
10  2 19  50 22  -29.7  0.308 -9.000 -9.000 -999.  409.    87.4  0.0950  0.72  1.00  4.10  339.0  15.0  285.4  2.0   0  1.78   96.  1000.    5 NAD-SFC NoSubs
10  2 19  50 23  -29.7  0.308 -9.000 -9.000 -999.  409.    87.3  0.0950  0.72  1.00  4.10  337.0  15.0  285.1  2.0   0  1.78   95.  1000.    5 NAD-SFC NoSubs
10  2 19  50 24  -20.8  0.230 -9.000 -9.000 -999.  267.    51.9  0.0950  0.72  1.00  3.10  338.0  15.0  284.9  2.0   0  1.78   95.  1000.    6 NAD-SFC NoSubs
10  2 20  51  1   -9.2  0.146 -9.000 -9.000 -999.  136.    29.9  0.0800  0.72  1.00  2.10  328.0  15.0  284.8  2.0   0  1.27   96.  1000.    6 NAD-SFC NoSubs
10  2 20  51  2   -4.7  0.107 -9.000 -9.000 -999.   84.    23.0  0.0950  0.72  1.00  1.50  343.0  15.0  284.6  2.0   0  0.51   97.  1000.    7 NAD-SFC NoSubs
10  2 20  51  3   -4.7  0.107 -9.000 -9.000 -999.   84.    23.0  0.0960  0.72  1.00  1.50    4.0  15.0  284.5  2.0   0  0.25   97.  1000.    7 NAD-SFC NoSubs
10  2 20  51  4   -2.2  0.078 -9.000 -9.000 -999.   52.    19.4  0.0960  0.72  1.00  1.00   11.0  15.0  284.2  2.0   0  0.25   97.   999.    8 NAD-SFC NoSubs
10  2 20  51  5   -2.2  0.078 -9.000 -9.000 -999.   52.    19.4  0.0960  0.72  1.00  1.00    8.0  15.0  284.2  2.0   0  0.51   97.  1000.    8 NAD-SFC NoSubs
10  2 20  51  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  284.2  2.0   0  0.51   96.  1000.    8 NAD-SFC NoSubs
10  2 20  51  7   -1.1  0.069 -9.000 -9.000 -999.   44.    27.9  0.0960  0.72  1.00  0.50   22.0  15.0  284.2  2.0   0  0.25   96.  1001.    6 NAD-SFC NoSubs
10  2 20  51  8    2.0 -9.000 -9.000 -9.000   93. -999. -99999.0  0.0471  0.72  0.42  0.00    0.0  15.0  284.2  2.0   0  0.00   95.  1002.    7 NAD-SFC NoSubs
10  2 20  51  9   47.3 -9.000 -9.000 -9.000  320. -999. -99999.0  0.0471  0.72  0.26  0.00    0.0  15.0  284.5  2.0   0  0.00   92.  1002.    6 NAD-SFC NoSubs
10  2 20  51 10   92.2  0.088  1.140  0.005  574.   63.    -1.0  0.0960  0.72  0.21  0.50   17.0  15.0  285.2  2.0   0  0.00   84.  1003.    5 NAD-SFC NoSubs
10  2 20  51 11  122.8 -9.000 -9.000 -9.000  791. -999. -99999.0  0.0471  0.72  0.19  0.00    0.0  15.0  286.8  2.0   0  0.00   73.  1002.    5 NAD-SFC NoSubs
10  2 20  51 12  139.6 -9.000 -9.000 -9.000  977. -999. -99999.0  0.0471  0.72  0.19  0.00    0.0  15.0  287.2  2.0   0  0.00   69.  1002.    5 NAD-SFC NoSubs
10  2 20  51 13  120.2 -9.000 -9.000 -9.000 1153. -999. -99999.0  0.0471  0.72  0.19  0.00    0.0  15.0  288.1  2.0   0  0.00   64.  1001.    7 NAD-SFC NoSubs
10  2 20  51 14   31.6 -9.000 -9.000 -9.000 1195. -999. -99999.0  0.0471  0.72  0.19  0.00    0.0  15.0  288.8  2.0   0  0.00   60.  1001.   10 NAD-SFC NoSubs
10  2 20  51 15   90.1 -9.000 -9.000 -9.000 1308. -999. -99999.0  0.0471  0.72  0.20  0.00    0.0  15.0  289.2  2.0   0  0.00   57.  1001.    7 NAD-SFC NoSubs
10  2 20  51 16   68.8  0.072  1.382  0.005 1369.   47.    -1.0  0.0400  0.72  0.24  0.50   86.0  15.0  289.4  2.0   0  0.00   55.  1000.    5 NAD-SFC NoSubs
10  2 20  51 17   20.8  0.057  0.931  0.005 1383.   32.    -1.0  0.0240  0.72  0.34  0.50  178.0  15.0  289.2  2.0   0  0.00   56.  1000.    6 NAD-SFC NoSubs
10  2 20  51 18   -1.7  0.069 -9.000 -9.000 -999.   43.    16.9  0.0420  0.72  0.67  1.00  277.0  15.0  288.8  2.0   0  0.00   61.  1001.    8 NAD-SFC NoSubs
10  2 20  51 19   -7.3  0.149 -9.000 -9.000 -999.  138.    40.2  0.0800  0.72  1.00  2.10  315.0  15.0  287.9  2.0   0  0.51   67.  1002.   10 NAD-SFC NoSubs
10  2 20  51 20  -14.4  0.262 -9.000 -9.000 -999.  322.   111.8  0.0800  0.72  1.00  3.60  321.0  15.0  286.9  2.0   0  0.76   76.  1002.   10 NAD-SFC NoSubs
10  2 20  51 21  -16.6  0.300 -9.000 -9.000 -999.  395.   146.1  0.0800  0.72  1.00  4.10  325.0  15.0  285.9  2.0   0  1.02   86.  1003.   10 NAD-SFC NoSubs
10  2 20  51 22  -16.6  0.300 -9.000 -9.000 -999.  395.   145.7  0.0800  0.72  1.00  4.10  306.0  15.0  285.1  2.0   0  0.51   90.  1004.   10 NAD-SFC NoSubs
10  2 20  51 23  -14.8  0.266 -9.000 -9.000 -999.  330.   114.0  0.0420  0.72  1.00  4.10  286.0  15.0  284.5  2.0   0  0.00   87.  1005.   10 NAD-SFC NoSubs
10  2 20  51 24  -28.9  0.296 -9.000 -9.000 -999.  387.    80.6  0.0420  0.72  1.00  4.60  290.0  15.0  283.4  2.0   0  0.00   85.  1005.    5 NAD-SFC NoSubs
10  2 21  52  1  -27.1  0.262 -9.000 -9.000 -999.  323.    59.8  0.0420  0.72  1.00  4.10  280.0  15.0  282.2  2.0   0  0.00   86.  1006.    4 NAD-SFC NoSubs
10  2 21  52  2  -23.7  0.229 -9.000 -9.000 -999.  263.    45.4  0.0420  0.72  1.00  3.60  284.0  15.0  281.6  2.0   0  0.00   87.  1006.    4 NAD-SFC NoSubs
10  2 21  52  3  -23.7  0.229 -9.000 -9.000 -999.  263.    45.3  0.0420  0.72  1.00  3.60  278.0  15.0  281.2  2.0   0  0.00   87.  1006.    4 NAD-SFC NoSubs
10  2 21  52  4  -23.7  0.229 -9.000 -9.000 -999.  263.    45.3  0.0420  0.72  1.00  3.60  278.0  15.0  281.2  2.0   0  0.00   87.  1007.    4 NAD-SFC NoSubs
10  2 21  52  5  -18.3  0.195 -9.000 -9.000 -999.  207.    36.5  0.0420  0.72  1.00  3.10  284.0  15.0  281.2  2.0   0  0.00   87.  1007.    4 NAD-SFC NoSubs
10  2 21  52  6   -8.1  0.128 -9.000 -9.000 -999.  111.    23.2  0.0420  0.72  1.00  2.10  288.0  15.0  281.4  2.0   0  0.00   86.  1007.    4 NAD-SFC NoSubs
10  2 21  52  7   -4.3  0.094 -9.000 -9.000 -999.   69.    17.6  0.0420  0.72  1.00  1.50  294.0  15.0  281.6  2.0   0  0.00   85.  1007.    4 NAD-SFC NoSubs
10  2 21  52  8    0.9  0.076  0.085  0.005   25.   50.    -45.1  0.0420  0.72  0.42  1.00  296.0  15.0  281.8  2.0   0  0.00   85.  1008.    4 NAD-SFC NoSubs
10  2 21  52  9   51.6  0.160  0.721  0.005  261.  153.     -7.1  0.0800  0.72  0.26  1.50  324.0  15.0  282.9  2.0   0  0.00   78.  1008.    4 NAD-SFC NoSubs
10  2 21  52 10   95.7  0.131  1.226  0.005  693.  114.     -2.1  0.0800  0.72  0.21  1.00  306.0  15.0  283.6  2.0   0  0.00   73.  1008.    4 NAD-SFC NoSubs
10  2 21  52 11  123.3  0.135  1.505  0.005  994.  119.     -1.8  0.0800  0.72  0.19  1.00  302.0  15.0  284.1  2.0   0  0.00   71.  1008.    5 NAD-SFC NoSubs
10  2 21  52 12  140.1  0.090  1.631  0.006 1115.   65.    -1.0  0.0800  0.72  0.19  0.50  314.0  15.0  284.5  2.0   0  0.00   70.  1008.    5 NAD-SFC NoSubs
10  2 21  52 13  134.2 -9.000 -9.000 -9.000 1219. -999. -99999.0  0.0471  0.72  0.19  0.00    0.0  15.0  284.8  2.0   0  0.25   69.  1007.    6 NAD-SFC NoSubs
10  2 21  52 14  110.8 -9.000 -9.000 -9.000 1300. -999. -99999.0  0.0471  0.72  0.19  0.00    0.0  15.0  284.9  2.0   0  0.00   68.  1007.    7 NAD-SFC NoSubs
10  2 21  52 15   74.5  0.073  1.408  0.007 1347.   47.    -1.0  0.0400  0.72  0.20  0.50   88.0  15.0  285.2  2.0   0  0.00   67.  1006.    8 NAD-SFC NoSubs
10  2 21  52 16   14.0  0.122  0.808  0.007 1352.  102.    -11.5  0.0310  0.72  0.23  1.50   98.0  15.0  285.2  2.0   0  0.00   67.  1005.   10 NAD-SFC NoSubs
10  2 21  52 17    1.2  0.104  0.359  0.007 1353.   81.    -83.4  0.0310  0.72  0.33  1.50  108.0  15.0  285.2  2.0   0  0.00   70.  1005.   10 NAD-SFC NoSubs
10  2 21  52 18   -3.5  0.087 -9.000 -9.000 -999.   61.    17.0  0.0280  0.72  0.67  1.50  131.0  15.0  284.6  2.0   0  0.00   75.  1005.    6 NAD-SFC NoSubs
10  2 21  52 19   -3.6  0.086 -9.000 -9.000 -999.   61.    16.0  0.0240  0.72  1.00  1.50  152.0  15.0  284.1  2.0   0  0.25   81.  1006.    5 NAD-SFC NoSubs
10  2 21  52 20   -6.6  0.117 -9.000 -9.000 -999.   96.    21.6  0.0240  0.72  1.00  2.10  154.0  15.0  283.8  2.0   0  0.25   85.  1006.    6 NAD-SFC NoSubs
10  2 21  52 21  -11.1  0.151 -9.000 -9.000 -999.  140.    27.7  0.0280  0.72  1.00  2.60  139.0  15.0  283.4  2.0   0  0.25   87.  1006.    5 NAD-SFC NoSubs
10  2 21  52 22  -10.7  0.147 -9.000 -9.000 -999.  135.    26.6  0.0240  0.72  1.00  2.60  153.0  15.0  283.2  2.0   0  0.00   89.  1006.    5 NAD-SFC NoSubs
10  2 21  52 23   -6.9  0.117 -9.000 -9.000 -999.   96.    20.9  0.0240  0.72  1.00  2.10  172.0  15.0  283.2  2.0   0  0.00   90.  1007.    5 NAD-SFC NoSubs
10  2 21  52 24   -3.3  0.084 -9.000 -9.000 -999.   58.    15.7  0.0200  0.72  1.00  1.50  256.0  15.0  282.9  2.0   0  0.00   92.  1006.    6 NAD-SFC NoSubs
10  2 22  53  1  -18.8  0.222 -9.000 -9.000 -999.  251.    52.2  0.0800  0.72  1.00  3.10  306.0  15.0  282.0  2.0   0  0.00   96.  1007.    7 NAD-SFC NoSubs
10  2 22  53  2  -14.8  0.262 -9.000 -9.000 -999.  322.   109.5  0.0800  0.72  1.00  3.60  320.0  15.0  281.2  2.0   0  0.00  100.  1007.   10 NAD-SFC NoSubs
10  2 22  53  3  -12.7  0.224 -9.000 -9.000 -999.  256.    80.2  0.0800  0.72  1.00  3.10  320.0  15.0  281.2  2.0   0  0.00   99.  1008.   10 NAD-SFC NoSubs
10  2 22  53  4  -16.9  0.300 -9.000 -9.000 -999.  395.   143.6  0.0800  0.72  1.00  4.10  316.0  15.0  281.2  2.0   0  0.00   99.  1008.   10 NAD-SFC NoSubs
10  2 22  53  5  -16.9  0.300 -9.000 -9.000 -999.  395.   143.5  0.0800  0.72  1.00  4.10  324.0  15.0  281.1  2.0   0  0.00   99.  1008.   10 NAD-SFC NoSubs
10  2 22  53  6  -24.9  0.269 -9.000 -9.000 -999.  335.    70.1  0.0950  0.72  1.00  3.60  330.0  15.0  280.8  2.0   0  0.00   99.  1009.    6 NAD-SFC NoSubs
10  2 22  53  7  -26.6  0.268 -9.000 -9.000 -999.  334.    65.3  0.0950  0.72  1.00  3.60  335.0  15.0  280.2  2.0   0  0.00  100.  1010.    5 NAD-SFC NoSubs
10  2 22  53  8    1.6  0.365  0.118  0.005   37.  529. -2745.2  0.0950  0.72  0.41  4.60  350.0  15.0  279.9  2.0   0  0.00   93.  1011.    4 NAD-SFC NoSubs
10  2 22  53  9   52.2  0.355  0.753  0.005  294.  508.    -77.4  0.0950  0.72  0.26  4.10  354.0  15.0  282.0  2.0   0  0.00   63.  1011.    3 NAD-SFC NoSubs
10  2 22  53 10   97.4  0.333  1.107  0.005  503.  461.    -34.0  0.0950  0.72  0.21  3.60  337.0  15.0  283.1  2.0   0  0.00   51.  1011.    3 NAD-SFC NoSubs
10  2 22  53 11  129.1  0.303  1.356  0.005  698.  401.    -19.4  0.0950  0.72  0.19  3.10  334.0  15.0  284.1  2.0   0  0.00   44.  1011.    2 NAD-SFC NoSubs
10  2 22  53 12  147.2  0.225  1.534  0.005  886.  258.     -6.9  0.0800  0.72  0.19  2.10  306.0  15.0  284.9  2.0   0  0.00   41.  1010.    2 NAD-SFC NoSubs
10  2 22  53 13  150.2  0.123  1.653  0.005 1084.  109.     -1.1  0.0420  0.72  0.19  1.00  299.0  15.0  285.6  2.0   0  0.00   39.  1010.    2 NAD-SFC NoSubs
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10  2 22  53 14  138.2  0.090  1.697  0.005 1275.   65.     -1.0  0.0800  0.72  0.19  0.50  304.0  15.0  286.2  2.0    0  0.00   38.  1010.    2 NAD-SFC NoSubs
10  2 22  53 15  111.4  0.174  1.619  0.005 1375.  174.     -4.2  0.0800  0.72  0.20  1.50  314.0  15.0  286.6  2.0    0  0.00   37.  1010.    2 NAD-SFC NoSubs
10  2 22  53 16   70.7  0.165  1.406  0.005 1417.  161.     -5.7  0.0800  0.72  0.23  1.50  322.0  15.0  286.8  2.0    0  0.00   37.  1010.    2 NAD-SFC NoSubs
10  2 22  53 17   19.6  0.194  0.919  0.005 1428.  205.    -33.7  0.0950  0.72  0.33  2.10  333.0  15.0  286.5  2.0    0  0.00   41.  1010.    2 NAD-SFC NoSubs
10  2 22  53 18   -5.3  0.108 -9.000 -9.000 -999.   88.     21.2  0.0950  0.72  0.66  1.50  341.0  15.0  285.8  2.0    0  0.00   43.  1010.    2 NAD-SFC NoSubs
10  2 22  53 19   -2.9  0.087 -9.000 -9.000 -999.   61.     19.9  0.0950  0.72  1.00  1.00  348.0  15.0  284.8  2.0    0  0.00   47.  1011.    2 NAD-SFC NoSubs
10  2 22  53 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  283.8  2.0    0  0.00   52.  1011.    2 NAD-SFC NoSubs
10  2 22  53 21   -1.0  0.065 -9.000 -9.000 -999.   40.     26.1  0.0220  0.72  1.00  0.50  196.0  15.0  282.6  2.0    0  0.00   58.  1012.    2 NAD-SFC NoSubs
10  2 22  53 22   -2.2  0.075 -9.000 -9.000 -999.   49.     16.9  0.0240  0.72  1.00  1.00  169.0  15.0  281.6  2.0    0  0.00   65.  1012.    2 NAD-SFC NoSubs
10  2 22  53 23   -4.0  0.088 -9.000 -9.000 -999.   63.     15.7  0.0240  0.72  1.00  1.50  175.0  15.0  280.9  2.0    0  0.00   68.  1013.    2 NAD-SFC NoSubs
10  2 22  53 24   -3.9  0.087 -9.000 -9.000 -999.   62.     15.4  0.0220  0.72  1.00  1.50  187.0  15.0  280.6  2.0    0  0.00   69.  1013.    2 NAD-SFC NoSubs
10  2 23  54  1   -2.2  0.074 -9.000 -9.000 -999.   48.     16.6  0.0200  0.72  1.00  1.00  256.0  15.0  280.2  2.0    0  0.00   69.  1013.    2 NAD-SFC NoSubs
10  2 23  54  2   -4.5  0.095 -9.000 -9.000 -999.   70.     17.3  0.0420  0.72  1.00  1.50  298.0  15.0  280.0  2.0    0  0.00   69.  1014.    2 NAD-SFC NoSubs
10  2 23  54  3  -13.2  0.161 -9.000 -9.000 -999.  155.     28.5  0.0420  0.72  1.00  2.60  290.0  15.0  279.2  2.0    0  0.00   67.  1014.    2 NAD-SFC NoSubs
10  2 23  54  4  -13.2  0.161 -9.000 -9.000 -999.  155.     28.5  0.0420  0.72  1.00  2.60  289.0  15.0  278.8  2.0    0  0.00   65.  1014.    2 NAD-SFC NoSubs
10  2 23  54  5  -13.2  0.161 -9.000 -9.000 -999.  155.     28.4  0.0420  0.72  1.00  2.60  291.0  15.0  278.2  2.0    0  0.00   63.  1014.    2 NAD-SFC NoSubs
10  2 23  54  6  -13.2  0.161 -9.000 -9.000 -999.  155.     28.4  0.0420  0.72  1.00  2.60  293.0  15.0  278.1  2.0    0  0.00   59.  1015.    2 NAD-SFC NoSubs
10  2 23  54  7   -8.5  0.128 -9.000 -9.000 -999.  110.     22.3  0.0420  0.72  1.00  2.10  295.0  15.0  278.2  2.0    0  0.00   55.  1015.    2 NAD-SFC NoSubs
10  2 23  54  8   -0.1  0.035 -9.000 -9.000 -999.   25.     38.1  0.0800  0.72  0.41  0.50  301.0  15.0  278.9  2.0    0  0.00   51.  1015.    2 NAD-SFC NoSubs
10  2 23  54  9   52.0  0.082  0.582  0.006  137.   56.     -1.0  0.0950  0.72  0.26  0.50  352.0  15.0  280.8  2.0    0  0.00   42.  1015.    2 NAD-SFC NoSubs
10  2 23  54 10   97.8  0.089  0.961  0.005  329.   64.     -1.0  0.0960  0.72  0.21  0.50   21.0  15.0  282.9  2.0    0  0.00   39.  1015.    2 NAD-SFC NoSubs
10  2 23  54 11  130.5  0.092  1.299  0.007  608.   67.     -1.0  0.0950  0.72  0.19  0.50  339.0  15.0  284.2  2.0    0  0.00   37.  1014.    2 NAD-SFC NoSubs
10  2 23  54 12  148.6  0.185  1.463  0.008  764.  191.     -3.8  0.0950  0.72  0.19  1.50  336.0  15.0  285.5  2.0    0  0.00   35.  1014.    2 NAD-SFC NoSubs
10  2 23  54 13  151.6  0.232  1.543  0.008  877.  269.     -7.5  0.0950  0.72  0.19  2.10  346.0  15.0  285.9  2.0    0  0.00   36.  1013.    2 NAD-SFC NoSubs
10  2 23  54 14  139.5  0.230  1.552  0.009  970.  265.     -7.9  0.0950  0.72  0.19  2.10  345.0  15.0  286.2  2.0    0  0.00   36.  1013.    2 NAD-SFC NoSubs
10  2 23  54 15  112.5 -9.000 -9.000 -9.000 1027. -999. -99999.0  0.0471  0.72  0.20  0.00    0.0  15.0  286.2  2.0    0  0.00   37.  1012.    2 NAD-SFC NoSubs
10  2 23  54 16   71.7  0.171  1.282  0.009 1061.  169.     -6.3  0.0960  0.72  0.23  1.50   17.0  15.0  286.2  2.0    0  0.00   41.  1012.    2 NAD-SFC NoSubs
10  2 23  54 17   20.5  0.151  0.847  0.009 1071.  141.    -15.1  0.0950  0.72  0.33  1.50  356.0  15.0  285.9  2.0    0  0.00   45.  1011.    2 NAD-SFC NoSubs
10  2 23  54 18   -2.8  0.085 -9.000 -9.000 -999.   60.     19.7  0.0950  0.72  0.65  1.00  356.0  15.0  285.4  2.0    0  0.00   48.  1012.    2 NAD-SFC NoSubs
10  2 23  54 19   -2.4  0.078 -9.000 -9.000 -999.   52.     17.9  0.0420  0.72  1.00  1.00  295.0  15.0  284.9  2.0    0  0.00   51.  1012.    3 NAD-SFC NoSubs
10  2 23  54 20   -1.0  0.068 -9.000 -9.000 -999.   43.     27.3  0.0420  0.72  1.00  0.50  282.0  15.0  284.5  2.0    0  0.00   54.  1012.    3 NAD-SFC NoSubs
10  2 23  54 21   -2.8  0.085 -9.000 -9.000 -999.   59.     19.7  0.0950  0.72  1.00  1.00  332.0  15.0  284.2  2.0    0  0.00   56.  1012.    4 NAD-SFC NoSubs
10  2 23  54 22   -5.3  0.108 -9.000 -9.000 -999.   85.     21.2  0.0950  0.72  1.00  1.50  330.0  15.0  284.0  2.0    0  0.00   57.  1012.    4 NAD-SFC NoSubs
10  2 23  54 23   -5.2  0.107 -9.000 -9.000 -999.   84.     21.6  0.0950  0.72  1.00  1.50  348.0  15.0  283.9  2.0    0  0.00   58.  1012.    5 NAD-SFC NoSubs
10  2 23  54 24   -5.2  0.108 -9.000 -9.000 -999.   85.     21.6  0.0960  0.72  1.00  1.50    3.0  15.0  283.8  2.0    0  0.00   59.  1012.    5 NAD-SFC NoSubs
10  2 24  55  1   -2.9  0.086 -9.000 -9.000 -999.   61.     19.9  0.0950  0.72  1.00  1.00  343.0  15.0  283.6  2.0    0  0.00   60.  1012.    3 NAD-SFC NoSubs
10  2 24  55  2   -1.2  0.073 -9.000 -9.000 -999.   47.     29.0  0.0800  0.72  1.00  0.50  322.0  15.0  283.4  2.0    0  0.00   60.  1011.    3 NAD-SFC NoSubs
10  2 24  55  3   -5.1  0.104 -9.000 -9.000 -999.   81.     20.3  0.0800  0.72  1.00  1.50  312.0  15.0  283.2  2.0    0  0.00   61.  1011.    4 NAD-SFC NoSubs
10  2 24  55  4  -11.0  0.163 -9.000 -9.000 -999.  158.     35.6  0.0420  0.72  1.00  2.60  291.0  15.0  283.1  2.0    0  0.00   63.  1011.    8 NAD-SFC NoSubs
10  2 24  55  5   -9.3  0.165 -9.000 -9.000 -999.  161.     43.6  0.0420  0.72  1.00  2.60  294.0  15.0  282.5  2.0    0  0.00   70.  1011.   10 NAD-SFC NoSubs
10  2 24  55  6   -7.5  0.149 -9.000 -9.000 -999.  138.     39.7  0.0800  0.72  1.00  2.10  317.0  15.0  281.8  2.0    0  0.51   78.  1011.   10 NAD-SFC NoSubs
10  2 24  55  7   -7.9  0.154 -9.000 -9.000 -999.  146.     42.0  0.0960  0.72  1.00  2.10    6.0  15.0  281.4  2.0    0  1.02   84.  1011.   10 NAD-SFC NoSubs
10  2 24  55  8   -2.4  0.102 -9.000 -9.000 -999.   79.     40.7  0.0650  0.72  0.40  1.50   49.0  15.0  281.2  2.0    0  1.02   87.  1011.   10 NAD-SFC NoSubs
10  2 24  55  9    9.4  0.118  0.260  0.005   67.   97.    -15.7  0.0310  0.72  0.25  1.50   91.0  15.0  281.2  2.0    0  0.76   86.  1011.   10 NAD-SFC NoSubs
10  2 24  55 10   20.9  0.092  0.429  0.005  137.   67.     -3.4  0.0280  0.72  0.21  1.00  132.0  15.0  281.6  2.0    0  0.25   84.  1011.   10 NAD-SFC NoSubs
10  2 24  55 11   29.1  0.093  0.552  0.005  209.   68.     -2.5  0.0240  0.72  0.19  1.00  150.0  15.0  282.1  2.0    0  0.00   83.  1011.   10 NAD-SFC NoSubs
10  2 24  55 12   33.6  0.097  0.653  0.005  297.   72.     -2.4  0.0280  0.72  0.19  1.00  129.0  15.0  282.5  2.0    0  0.00   83.  1010.   10 NAD-SFC NoSubs
10  2 24  55 13   34.4  0.063  0.705  0.005  367.   38.     -1.0  0.0310  0.72  0.19  0.50   91.0  15.0  282.9  2.0    0  0.00   84.  1010.   10 NAD-SFC NoSubs
10  2 24  55 14   31.7  0.062  0.758  0.005  493.   37.     -1.0  0.0310  0.72  0.19  0.50  105.0  15.0  284.6  2.0    0  0.00   80.  1009.   10 NAD-SFC NoSubs
10  2 24  55 15   25.2  0.063  0.752  0.005  606.   38.     -1.0  0.0400  0.72  0.20  0.50   85.0  15.0  285.8  2.0    0  0.00   77.  1009.   10 NAD-SFC NoSubs
10  2 24  55 16   61.3  0.105  1.103  0.007  787.   82.     -1.7  0.0310  0.72  0.23  1.00  103.0  15.0  286.5  2.0    0  0.00   73.  1008.    7 NAD-SFC NoSubs
10  2 24  55 17   23.5  0.194  0.820  0.007  841.  205.    -27.8  0.0310  0.72  0.32  2.60  112.0  15.0  286.2  2.0    0  0.00   77.  1008.    6 NAD-SFC NoSubs
10  2 24  55 18  -14.8  0.183 -9.000 -9.000 -999.  188.     37.4  0.0280  0.72  0.64  3.10  144.0  15.0  285.2  2.0    0  0.00   84.  1009.    6 NAD-SFC NoSubs
10  2 24  55 19  -14.4  0.179 -9.000 -9.000 -999.  181.     35.6  0.0240  0.72  1.00  3.10  164.0  15.0  284.4  2.0    0  0.00   90.  1009.    7 NAD-SFC NoSubs
10  2 24  55 20   -8.3  0.150 -9.000 -9.000 -999.  140.     36.9  0.0240  0.72  1.00  2.60  164.0  15.0  284.2  2.0    0  0.00   93.  1010.   10 NAD-SFC NoSubs
10  2 24  55 21   -2.6  0.083 -9.000 -9.000 -999.   59.     19.7  0.0240  0.72  1.00  1.50  161.0  15.0  284.0  2.0    0  0.00   95.  1010.   10 NAD-SFC NoSubs
10  2 24  55 22   -0.7  0.057 -9.000 -9.000 -999.   33.     23.5  0.0310  0.72  1.00  0.50  115.0  15.0  283.8  2.0    0  0.00   97.  1011.    8 NAD-SFC NoSubs
10  2 24  55 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  283.4  2.0    0  0.00  100.  1011.    7 NAD-SFC NoSubs
10  2 24  55 24   -2.3  0.078 -9.000 -9.000 -999.   53.     18.9  0.0800  0.72  1.00  1.00  317.0  15.0  283.2  2.0    0  0.00  100.  1011.    7 NAD-SFC NoSubs
10  2 25  56  1   -9.0  0.146 -9.000 -9.000 -999.  134.     31.3  0.0800  0.72  1.00  2.10  324.0  15.0  283.5  2.0    0  0.00   99.  1011.    7 NAD-SFC NoSubs
10  2 25  56  2  -18.8  0.222 -9.000 -9.000 -999.  251.     52.5  0.0800  0.72  1.00  3.10  325.0  15.0  283.5  2.0    0  0.00   99.  1012.    7 NAD-SFC NoSubs
10  2 25  56  3  -21.6  0.221 -9.000 -9.000 -999.  250.     45.2  0.0800  0.72  1.00  3.10  308.0  15.0  283.4  2.0    0  0.00   98.  1012.    5 NAD-SFC NoSubs
10  2 25  56  4  -21.6  0.221 -9.000 -9.000 -999.  250.     45.1  0.0800  0.72  1.00  3.10  307.0  15.0  283.2  2.0    0  0.25   97.  1012.    5 NAD-SFC NoSubs
10  2 25  56  5  -15.4  0.183 -9.000 -9.000 -999.  188.     35.8  0.0800  0.72  1.00  2.60  325.0  15.0  283.2  2.0    0  0.25   97.  1012.    4 NAD-SFC NoSubs
10  2 25  56  6  -23.8  0.229 -9.000 -9.000 -999.  262.     45.3  0.0950  0.72  1.00  3.10  333.0  15.0  283.2  2.0    0  0.00   97.  1012.    3 NAD-SFC NoSubs
10  2 25  56  7  -28.8  0.268 -9.000 -9.000 -999.  333.     60.2  0.0950  0.72  1.00  3.60  342.0  15.0  283.1  2.0    0  0.00   97.  1012.    3 NAD-SFC NoSubs
10  2 25  56  8    4.1  0.290  0.238  0.005  119.  375.   -542.4  0.0950  0.72  0.40  3.60  343.0  15.0  283.0  2.0    0  0.00   96.  1013.    3 NAD-SFC NoSubs
10  2 25  56  9   56.4  0.284  0.767  0.005  288.  364.    -36.8  0.0950  0.72  0.25  3.10  342.0  15.0  282.9  2.0    0  0.00   94.  1013.    3 NAD-SFC NoSubs
10  2 25  56 10  100.7  0.260  1.084  0.005  457.  319.    -15.8  0.0950  0.72  0.21  2.60  336.0  15.0  283.5  2.0    0  0.00   89.  1013.    2 NAD-SFC NoSubs
10  2 25  56 11  133.2  0.183  1.339  0.005  652.  189.     -4.1  0.0950  0.72  0.19  1.50  343.0  15.0  284.4  2.0    0  0.00   82.  1013.    2 NAD-SFC NoSubs
10  2 25  56 12  151.3 -9.000 -9.000 -9.000  963. -999. -99999.0  0.0471  0.72  0.19  0.00    0.0  15.0  285.8  2.0    0  0.00   73.  1012.    2 NAD-SFC NoSubs
10  2 25  56 13  154.5 -9.000 -9.000 -9.000 1049. -999. -99999.0  0.0471  0.72  0.19  0.00    0.0  15.0  287.2  2.0    0  0.00   64.  1011.    2 NAD-SFC NoSubs
10  2 25  56 14  142.5 -9.000 -9.000 -9.000 1118. -999. -99999.0  0.0471  0.72  0.19  0.00    0.0  15.0  288.2  2.0    0  0.00   57.  1010.    2 NAD-SFC NoSubs
10  2 25  56 15  115.6  0.138  1.555  0.007 1172.  123.     -2.1  0.0950  0.72  0.20  1.00  345.0  15.0  288.8  2.0    0  0.00   54.  1009.    2 NAD-SFC NoSubs
10  2 25  56 16   74.8 -9.000 -9.000 -9.000 1204. -999. -99999.0  0.0471  0.72  0.23  0.00    0.0  15.0  288.8  2.0    0  0.00   54.  1009.    2 NAD-SFC NoSubs
10  2 25  56 17   23.2  0.197  0.922  0.007 1214.  210.    -29.6  0.0960  0.72  0.32  2.10   18.0  15.0  288.2  2.0    0  0.00   61.  1008.    2 NAD-SFC NoSubs
10  2 25  56 18  -20.4  0.212 -9.000 -9.000 -999.  234.     42.1  0.0650  0.72  0.63  3.10   41.0  15.0  286.8  2.0    0  0.00   68.  1009.    2 NAD-SFC NoSubs
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10  2 25  56 19  -27.0  0.248 -9.000 -9.000 -999.  296.     50.7  0.0650  0.72  1.00   3.60   48.0  15.0  285.6  2.0   0  0.00  73.  1009.    2 NAD-SFC NoSubs
10  2 25  56 20  -12.8  0.159 -9.000 -9.000 -999.  156.     28.5  0.0400  0.72  1.00   2.60   77.0  15.0  285.0  2.0   0  0.00  75.  1009.    2 NAD-SFC NoSubs
10  2 25  56 21   -4.1  0.091 -9.000 -9.000 -999.   67.     16.4  0.0310  0.72  1.00   1.50   90.0  15.0  284.5  2.0   0  0.00  78.  1010.    2 NAD-SFC NoSubs
10  2 25  56 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  284.1  2.0   0  0.00  80.  1010.    2 NAD-SFC NoSubs
10  2 25  56 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  283.8  2.0   0  0.00  83.  1010.    2 NAD-SFC NoSubs
10  2 25  56 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  283.8  2.0   0  0.00  85.  1010.    2 NAD-SFC NoSubs
10  2 26  57  1   -1.1  0.069 -9.000 -9.000 -999.   43.     27.4  0.0400  0.72  1.00   0.50   81.0  15.0  283.8  2.0   0  0.00  87.  1010.    2 NAD-SFC NoSubs
10  2 26  57  2   -1.1  0.069 -9.000 -9.000 -999.   43.     27.4  0.0400  0.72  1.00   0.50   88.0  15.0  283.5  2.0   0  0.00  88.  1009.    2 NAD-SFC NoSubs
10  2 26  57  3   -1.0  0.067 -9.000 -9.000 -999.   42.     26.8  0.0310  0.72  1.00   0.50  100.0  15.0  283.2  2.0   0  0.00  88.  1009.    2 NAD-SFC NoSubs
10  2 26  57  4   -1.0  0.067 -9.000 -9.000 -999.   41.     26.6  0.0280  0.72  1.00   0.50  122.0  15.0  283.2  2.0   0  0.00  88.  1008.    2 NAD-SFC NoSubs
10  2 26  57  5   -2.3  0.076 -9.000 -9.000 -999.   50.     17.2  0.0280  0.72  1.00   1.00  145.0  15.0  283.2  2.0   0  0.00  86.  1007.    2 NAD-SFC NoSubs
10  2 26  57  6   -3.9  0.088 -9.000 -9.000 -999.   63.     15.7  0.0240  0.72  1.00   1.50  160.0  15.0  283.8  2.0   0  0.00  80.  1007.    2 NAD-SFC NoSubs
10  2 26  57  7  -11.0  0.144 -9.000 -9.000 -999.  131.     24.4  0.0220  0.72  1.00   2.60  183.0  15.0  284.6  2.0   0  0.00  69.  1007.    2 NAD-SFC NoSubs
10  2 26  57  8    4.1  0.227  0.145  0.007   27.  260.   -257.3  0.0220  0.72  0.39   3.60  182.0  15.0  285.5  2.0   0  0.00  58.  1007.    2 NAD-SFC NoSubs
10  2 26  57  9   57.4  0.286  0.655  0.006  175.  367.    -36.7  0.0240  0.72  0.25   4.10  159.0  15.0  286.2  2.0   0  0.00  51.  1006.    2 NAD-SFC NoSubs
10  2 26  57 10  103.2  0.297  0.997  0.006  345.  388.    -22.7  0.0240  0.72  0.21   4.10  151.0  15.0  287.8  2.0   0  0.00  47.  1006.    2 NAD-SFC NoSubs
10  2 26  57 11  136.0  0.302  1.262  0.006  530.  399.    -18.2  0.0240  0.72  0.19   4.10  150.0  15.0  289.8  2.0   0  0.00  44.  1006.    2 NAD-SFC NoSubs
10  2 26  57 12  154.3  0.246  1.442  0.006  697.  294.     -8.7  0.0240  0.72  0.19   3.10  150.0  15.0  291.2  2.0   0  0.00  43.  1005.    2 NAD-SFC NoSubs
10  2 26  57 13  157.8  0.283  1.544  0.006  837.  361.    -12.8  0.0280  0.72  0.19   3.60  128.0  15.0  292.2  2.0   0  0.00  43.  1005.    3 NAD-SFC NoSubs
10  2 26  57 14  145.6  0.370  1.566  0.006  947.  540.    -31.2  0.0280  0.72  0.19   5.10  121.0  15.0  292.2  2.0   0  0.00  46.  1005.    3 NAD-SFC NoSubs
10  2 26  57 15  118.2  0.468  1.503  0.006 1030.  767.    -77.5  0.0310  0.72  0.20   6.70  116.0  15.0  290.8  2.0   0  0.00  54.  1004.    3 NAD-SFC NoSubs
10  2 26  57 16   77.3  0.453  1.327  0.006 1083.  731.   -107.2  0.0280  0.72  0.23   6.70  122.0  15.0  289.6  2.0   0  0.00  56.  1003.    3 NAD-SFC NoSubs
10  2 26  57 17   26.0  0.445  0.929  0.006 1099.  713.   -302.8  0.0310  0.72  0.32   6.70  117.0  15.0  288.9  2.0   0  0.00  56.  1002.    3 NAD-SFC NoSubs
10  2 26  57 18  -38.2  0.409 -9.000 -9.000 -999.  630.    160.4  0.0280  0.72  0.62   6.70  144.0  15.0  288.2  2.0   0  0.00  56.  1002.    3 NAD-SFC NoSubs
10  2 26  57 19  -42.7  0.408 -9.000 -9.000 -999.  626.    142.5  0.0280  0.72  1.00   6.70  143.0  15.0  288.0  2.0   0  0.25  56.  1002.    3 NAD-SFC NoSubs
10  2 26  57 20  -36.1  0.345 -9.000 -9.000 -999.  489.    101.7  0.0280  0.72  1.00   5.70  144.0  15.0  287.9  2.0   0  0.76  57.  1001.    3 NAD-SFC NoSubs
10  2 26  57 21  -34.8  0.345 -9.000 -9.000 -999.  487.    105.7  0.0280  0.72  1.00   5.70  145.0  15.0  287.8  2.0   0  1.02  57.  1001.    4 NAD-SFC NoSubs
10  2 26  57 22  -31.0  0.308 -9.000 -9.000 -999.  410.     83.8  0.0280  0.72  1.00   5.10  141.0  15.0  287.5  2.0   0  1.02  58.  1001.    4 NAD-SFC NoSubs
10  2 26  57 23  -31.0  0.308 -9.000 -9.000 -999.  410.     83.7  0.0280  0.72  1.00   5.10  145.0  15.0  287.1  2.0   0  1.02  60.  1000.    4 NAD-SFC NoSubs
10  2 26  57 24  -31.0  0.308 -9.000 -9.000 -999.  410.     83.6  0.0280  0.72  1.00   5.10  144.0  15.0  286.8  2.0   0  1.02  63.   999.    4 NAD-SFC NoSubs
10  2 27  58  1  -31.0  0.308 -9.000 -9.000 -999.  410.     83.5  0.0280  0.72  1.00   5.10  138.0  15.0  286.6  2.0   0  0.51  67.   998.    4 NAD-SFC NoSubs
10  2 27  58  2  -31.0  0.308 -9.000 -9.000 -999.  410.     83.5  0.0280  0.72  1.00   5.10  137.0  15.0  286.6  2.0   0  0.51  70.   998.    4 NAD-SFC NoSubs
10  2 27  58  3  -31.0  0.308 -9.000 -9.000 -999.  410.     83.5  0.0280  0.72  1.00   5.10  143.0  15.0  286.6  2.0   0  0.76  73.   997.    4 NAD-SFC NoSubs
10  2 27  58  4  -30.9  0.308 -9.000 -9.000 -999.  410.     83.6  0.0280  0.72  1.00   5.10  142.0  15.0  286.8  2.0   0  1.02  74.   996.    4 NAD-SFC NoSubs
10  2 27  58  5  -27.1  0.269 -9.000 -9.000 -999.  336.     64.1  0.0240  0.72  1.00   4.60  155.0  15.0  286.8  2.0   0  1.52  74.   995.    4 NAD-SFC NoSubs
10  2 27  58  6  -24.0  0.239 -9.000 -9.000 -999.  280.     50.4  0.0240  0.72  1.00   4.10  154.0  15.0  286.8  2.0   0  1.78  75.   995.    4 NAD-SFC NoSubs
10  2 27  58  7  -20.9  0.208 -9.000 -9.000 -999.  228.     38.2  0.0240  0.72  1.00   3.60  173.0  15.0  286.5  2.0   0  0.76  78.   995.    4 NAD-SFC NoSubs
10  2 27  58  8    8.6  0.232  0.230  0.005   50.  268.   -129.2  0.0220  0.72  0.38   3.60  193.0  15.0  286.2  2.0   0  0.51  82.   995.    4 NAD-SFC NoSubs
10  2 27  58  9   55.9  0.167  0.796  0.005  320.  165.     -7.4  0.0220  0.72  0.25   2.10  185.0  15.0  286.2  2.0   0  1.52  84.   995.    6 NAD-SFC NoSubs
10  2 27  58 10   95.4  0.105  1.162  0.005  584.   82.     -1.1  0.0220  0.72  0.21   1.00  219.0  15.0  286.4  2.0   0  2.29  85.   995.    6 NAD-SFC NoSubs
10  2 27  58 11  135.7  0.331  1.511  0.005  902.  457.    -23.7  0.0800  0.72  0.19   3.60  311.0  15.0  286.9  2.0   0  1.52  76.   994.    4 NAD-SFC NoSubs
10  2 27  58 12  148.2  0.270  1.707  0.005 1192.  339.    -11.8  0.0950  0.72  0.19   2.60  339.0  15.0  287.5  2.0   0  0.76  66.   994.    5 NAD-SFC NoSubs
10  2 27  58 13   36.7  0.160  1.092  0.005 1256.  160.     -9.9  0.0960  0.72  0.19   1.50   18.0  15.0  288.0  2.0   0  0.51  61.   993.   10 NAD-SFC NoSubs
10  2 27  58 14   33.6  0.148  1.076  0.005 1311.  137.     -8.6  0.0650  0.72  0.19   1.50   55.0  15.0  288.2  2.0   0  0.76  60.   993.   10 NAD-SFC NoSubs
10  2 27  58 15   26.8  0.134  1.008  0.005 1351.  117.     -7.9  0.0400  0.72  0.20   1.50   75.0  15.0  288.2  2.0   0  1.02  61.   993.   10 NAD-SFC NoSubs
10  2 27  58 16   16.5  0.092  0.862  0.005 1372.   67.     -4.2  0.0310  0.72  0.23   1.00  115.0  15.0  288.0  2.0   0  1.02  64.   993.   10 NAD-SFC NoSubs
10  2 27  58 17    3.4  0.103  0.510  0.005 1376.   80.    -28.6  0.0200  0.72  0.32   1.50  256.0  15.0  287.5  2.0   0  0.76  70.   993.   10 NAD-SFC NoSubs
10  2 27  58 18  -13.2  0.185 -9.000 -9.000 -999.  191.     42.2  0.0800  0.72  0.61   2.60  301.0  15.0  286.6  2.0   0  1.02  78.   994.    6 NAD-SFC NoSubs
10  2 27  58 19   -3.9  0.093 -9.000 -9.000 -999.   72.     18.2  0.0420  0.72  1.00   1.50  288.0  15.0  286.1  2.0   0  1.02  81.   995.    6 NAD-SFC NoSubs
10  2 27  58 20  -11.8  0.215 -9.000 -9.000 -999.  240.     75.1  0.0650  0.72  1.00   3.10   39.0  15.0  285.4  2.0   0  1.52  87.   997.   10 NAD-SFC NoSubs
10  2 27  58 21  -24.7  0.329 -9.000 -9.000 -999.  452.    128.0  0.0400  0.72  1.00   5.10   66.0  15.0  284.2  2.0   0  4.06  92.   998.    8 NAD-SFC NoSubs
10  2 27  58 22   -2.9  0.086 -9.000 -9.000 -999.  160.     19.9  0.0960  0.72  1.00   1.00   25.0  15.0  284.2  2.0   0  0.51  90.   999.    3 NAD-SFC NoSubs
10  2 27  58 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  283.8  2.0   0  0.00  92.  1000.    3 NAD-SFC NoSubs
10  2 27  58 24  -15.2  0.172 -9.000 -9.000 -999.  171.     29.7  0.0200  0.72  1.00   3.10  247.0  15.0  283.2  2.0   0  0.00  95.  1000.    3 NAD-SFC NoSubs
10  2 28  59  1  -15.3  0.172 -9.000 -9.000 -999.  171.     29.7  0.0200  0.72  1.00   3.10  259.0  15.0  282.8  2.0   0  0.00  98.  1001.    3 NAD-SFC NoSubs
10  2 28  59  2   -6.7  0.113 -9.000 -9.000 -999.   92.     19.4  0.0200  0.72  1.00   2.10  259.0  15.0  282.5  2.0   0  0.00  98.  1001.    4 NAD-SFC NoSubs
10  2 28  59  3   -2.0  0.072 -9.000 -9.000 -999.   46.     16.4  0.0200  0.72  1.00   1.00  256.0  15.0  281.2  2.0   0  0.00  98.  1002.    4 NAD-SFC NoSubs
10  2 28  59  4   -2.4  0.079 -9.000 -9.000 -999.   53.     18.0  0.0420  0.72  1.00   1.00  277.0  15.0  280.6  2.0   0  0.00  98.  1002.    3 NAD-SFC NoSubs
10  2 28  59  5   -1.1  0.069 -9.000 -9.000 -999.   43.     27.4  0.0420  0.72  1.00   0.50  290.0  15.0  280.2  2.0   0  0.00  97.  1002.    3 NAD-SFC NoSubs
10  2 28  59  6   -0.9  0.064 -9.000 -9.000 -999.   39.     25.7  0.0200  0.72  1.00   0.50  249.0  15.0  279.9  2.0   0  0.00  98.  1003.    3 NAD-SFC NoSubs
10  2 28  59  7   -0.9  0.064 -9.000 -9.000 -999.   39.     25.7  0.0200  0.72  1.00   0.50  246.0  15.0  279.6  2.0   0  0.00  99.  1004.    3 NAD-SFC NoSubs
10  2 28  59  8    5.4  0.062  0.182  0.010   39.   37.     -3.8  0.0950  0.72  0.38   0.50  330.0  15.0  280.6  2.0   0  0.00  93.  1004.    2 NAD-SFC NoSubs
10  2 28  59  9   59.2 -9.000 -9.000 -9.000  182. -999. -99999.0  0.0471  0.72  0.25   0.00    0.0  15.0  282.2  2.0   0  0.00  83.  1004.    2 NAD-SFC NoSubs
10  2 28  59 10  105.1 -9.000 -9.000 -9.000  377. -999. -99999.0  0.0471  0.72  0.20   0.00    0.0  15.0  284.5  2.0   0  0.00  71.  1004.    2 NAD-SFC NoSubs
10  2 28  59 11  137.7 -9.000 -9.000 -9.000  625. -999. -99999.0  0.0471  0.72  0.19   0.00    0.0  15.0  286.2  2.0   0  0.00  62.  1004.    2 NAD-SFC NoSubs
10  2 28  59 12  155.8  0.081  1.524  0.005  814.   56.     -1.0  0.0420  0.72  0.19   0.50  289.0  15.0  287.8  2.0   0  0.00  55.  1004.    2 NAD-SFC NoSubs
10  2 28  59 13  158.8  0.081  1.625  0.006  969.   56.     -1.0  0.0420  0.72  0.19   0.50  290.0  15.0  288.9  2.0   0  0.00  50.  1003.    2 NAD-SFC NoSubs
10  2 28  59 14  146.7  0.081  1.640  0.006 1078.   55.     -1.0  0.0420  0.72  0.19   0.50  295.0  15.0  289.8  2.0   0  0.00  46.  1003.    2 NAD-SFC NoSubs
10  2 28  59 15  119.7  0.088  1.571  0.006 1159.   63.     -1.0  0.0800  0.72  0.20   0.50  322.0  15.0  290.1  2.0   0  0.00  44.  1002.    2 NAD-SFC NoSubs
10  2 28  59 16   78.7  0.172  1.386  0.006 1209.  172.     -5.8  0.0950  0.72  0.23   1.50  349.0  15.0  290.1  2.0   0  0.00  44.  1002.    2 NAD-SFC NoSubs
10  2 28  59 17   26.8 -9.000 -9.000 -9.000 1225. -999. -99999.0  0.0471  0.72  0.31   0.00    0.0  15.0  289.6  2.0   0  0.00  49.  1002.    2 NAD-SFC NoSubs
10  2 28  59 18   -5.0  0.107 -9.000 -9.000 -999.   84.     22.0  0.0960  0.72  0.60   1.50   23.0  15.0  288.8  2.0   0  0.00  54.  1003.    2 NAD-SFC NoSubs
10  2 28  59 19   -2.6  0.082 -9.000 -9.000 -999.   57.     18.9  0.0650  0.72  1.00   1.00   47.0  15.0  287.9  2.0   0  0.00  59.  1003.    2 NAD-SFC NoSubs
10  2 28  59 20   -2.4  0.078 -9.000 -9.000 -999.   52.     17.9  0.0400  0.72  1.00   1.00   80.0  15.0  287.0  2.0   0  0.00  64.  1004.    2 NAD-SFC NoSubs
10  2 28  59 21   -1.1  0.068 -9.000 -9.000 -999.   43.     27.4  0.0400  0.72  1.00   0.50   89.0  15.0  286.2  2.0   0  0.00  68.  1004.    2 NAD-SFC NoSubs
10  2 28  59 22   -1.0  0.067 -9.000 -9.000 -999.   42.     26.7  0.0310  0.72  1.00   0.50   95.0  15.0  285.8  2.0   0  0.00  71.  1004.    2 NAD-SFC NoSubs
10  2 28  59 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  285.2  2.0   0  0.00  75.  1005.    2 NAD-SFC NoSubs
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10  2 28  59 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 284.6  2.0    0  0.00   78. 1005.    2 NAD-SFC NoSubs
10  3  1  60  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0 284.2  2.0    0  0.00   80. 1005.    2 NAD-SFC NoSubs
10  3  1  60  2   -1.2  0.073 -9.000 -9.000 -999.  48.     29.1  0.0780  0.32  1.00  0.50  279.0  15.0 284.1  2.0    0  0.00   80. 1006.    2 NAD-SFC NoSubs
10  3  1  60  3   -2.8  0.085 -9.000 -9.000 -999.  59.     19.4  0.0780  0.32  1.00  1.00  298.0  15.0 284.1  2.0    0  0.00   79. 1006.    2 NAD-SFC NoSubs
10  3  1  60  4   -6.6  0.121 -9.000 -9.000 -999. 100.     24.0  0.1620  0.32  1.00  1.50  317.0  15.0 284.0  2.0    0  0.00   78. 1006.    2 NAD-SFC NoSubs
10  3  1  60  5   -6.6  0.121 -9.000 -9.000 -999. 100.     24.0  0.1620  0.32  1.00  1.50  314.0  15.0 283.8  2.0    0  0.00   79. 1007.    2 NAD-SFC NoSubs
10  3  1  60  6   -6.6  0.121 -9.000 -9.000 -999. 100.     24.0  0.1620  0.32  1.00  1.50  308.0  15.0 283.6  2.0    0  0.00   79. 1007.    2 NAD-SFC NoSubs
10  3  1  60  7  -12.9  0.169 -9.000 -9.000 -999. 167.     33.8  0.1620  0.32  1.00  2.10  315.0  15.0 283.4  2.0    0  0.00   79. 1007.    2 NAD-SFC NoSubs
10  3  1  60  8    5.4  0.199  0.184  0.005  41.  213.   -132.0  0.1620  0.32  0.34  2.10  312.0  15.0 283.4  2.0    0  0.00   77. 1007.    2 NAD-SFC NoSubs
10  3  1  60  9   38.0  0.266  0.531  0.005 142.  330.    -44.6  0.1620  0.32  0.20  2.60  318.0  15.0 284.5  2.0    0  0.00   67. 1008.    2 NAD-SFC NoSubs
10  3  1  60 10   65.6  0.278  0.815  0.005 296.  351.    -29.4  0.1620  0.32  0.16  2.60  314.0  15.0 285.2  2.0    0  0.00   60. 1008.    2 NAD-SFC NoSubs
10  3  1  60 11   85.2  0.250  1.036  0.005 468.  301.    -16.6  0.1880  0.32  0.15  2.10  334.0  15.0 286.2  2.0    0  0.00   56. 1007.    2 NAD-SFC NoSubs
10  3  1  60 12   96.1  0.195  1.190  0.005 630.  208.     -7.0  0.1620  0.32  0.15  1.50  327.0  15.0 287.2  2.0    0  0.00   54. 1007.    2 NAD-SFC NoSubs
10  3  1  60 13   97.8  0.202  1.270  0.006 752.  218.     -7.5  0.1880  0.32  0.15  1.50  335.0  15.0 288.1  2.0    0  0.00   52. 1006.    2 NAD-SFC NoSubs
10  3  1  60 14   90.4  0.200  1.288  0.006 848.  215.     -7.9  0.1880  0.32  0.15  1.50  355.0  15.0 288.8  2.0    0  0.00   49. 1005.    2 NAD-SFC NoSubs
10  3  1  60 15   73.9  0.248  1.237  0.006 918.  296.    -18.4  0.1900  0.32  0.16  2.10   14.0  15.0 288.8  2.0    0  0.00   50. 1005.    2 NAD-SFC NoSubs
10  3  1  60 16   49.0  0.221  1.096  0.006 962.  249.    -19.6  0.1280  0.32  0.18  2.10   35.0  15.0 288.8  2.0    0  0.00   56. 1004.    2 NAD-SFC NoSubs
10  3  1  60 17   17.5  0.242  0.782  0.006 976.  285.    -72.3  0.1280  0.32  0.27  2.60   31.0  15.0 288.2  2.0    0  0.00   60. 1004.    2 NAD-SFC NoSubs
10  3  1  60 18   -5.3  0.114 -9.000 -9.000 -999. 103.     24.5  0.1280  0.32  0.56  1.50   35.0  15.0 287.8  2.0    0  0.00   63. 1004.    3 NAD-SFC NoSubs
10  3  1  60 19   -3.3  0.092 -9.000 -9.000 -999.  67.     21.4  0.1620  0.32  1.00  1.00  329.0  15.0 287.1  2.0    0  0.00   67. 1005.    3 NAD-SFC NoSubs
10  3  1  60 20   -2.7  0.084 -9.000 -9.000 -999.  58.     19.3  0.0780  0.32  1.00  1.00  299.0  15.0 286.6  2.0    0  0.00   70. 1005.    3 NAD-SFC NoSubs
10  3  1  60 21   -6.4  0.120 -9.000 -9.000 -999. 100.     24.3  0.1620  0.32  1.00  1.50  309.0  15.0 286.4  2.0    0  0.00   70. 1006.    3 NAD-SFC NoSubs
10  3  1  60 22   -6.4  0.120 -9.000 -9.000 -999. 100.     24.3  0.1620  0.32  1.00  1.50  329.0  15.0 286.2  2.0    0  0.00   69. 1006.    3 NAD-SFC NoSubs
10  3  1  60 23  -13.5  0.176 -9.000 -9.000 -999. 178.     36.4  0.1880  0.32  1.00  2.10  353.0  15.0 286.1  2.0    0  0.00   69. 1007.    3 NAD-SFC NoSubs
10  3  1  60 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0 285.8  2.0    0  0.00   69. 1007.    3 NAD-SFC NoSubs
10  3  2  61  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0 285.5  2.0    0  0.00   69. 1007.    3 NAD-SFC NoSubs
10  3  2  61  2  -28.5  0.268 -9.000 -9.000 -999. 333.     60.7  0.1880  0.32  1.00  3.10  359.0  15.0 284.8  2.0    0  0.00   70. 1007.    3 NAD-SFC NoSubs
10  3  2  61  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0 284.1  2.0    0  0.00   72. 1007.    3 NAD-SFC NoSubs
10  3  2  61  4  -13.4  0.177 -9.000 -9.000 -999. 179.     37.2  0.1900  0.32  1.00  2.10   10.0  15.0 283.6  2.0    0  0.00   74. 1007.    4 NAD-SFC NoSubs
10  3  2  61  5  -13.4  0.177 -9.000 -9.000 -999. 179.     37.1  0.1900  0.32  1.00  2.10   20.0  15.0 283.2  2.0    0  0.00   76. 1007.    4 NAD-SFC NoSubs
10  3  2  61  6  -20.9  0.223 -9.000 -9.000 -999. 253.     47.6  0.1900  0.32  1.00  2.60   25.0  15.0 283.1  2.0    0  0.00   78. 1007.    4 NAD-SFC NoSubs
10  3  2  61  7  -11.2  0.161 -9.000 -9.000 -999. 156.     33.3  0.1280  0.32  1.00  2.10   36.0  15.0 283.0  2.0    0  0.00   80. 1007.    5 NAD-SFC NoSubs
10  3  2  61  8    8.1  0.176  0.226  0.005  51.  178.    -60.5  0.0760  0.32  0.33  2.10   75.0  15.0 283.1  2.0    0  0.00   81. 1007.    5 NAD-SFC NoSubs
10  3  2  61  9   38.8  0.069  0.595  0.005 195.  51.     -1.0  0.0460  0.32  0.20  0.50  123.0  15.0 285.2  2.0    0  0.00   72. 1007.    5 NAD-SFC NoSubs
10  3  2  61 10   64.7 -9.000 -9.000 -9.000 352. -999. -99999.0  0.0879  0.32  0.16  0.00    0.0  15.0 287.0  2.0    0  0.00   65. 1006.    5 NAD-SFC NoSubs
10  3  2  61 11   85.8 -9.000 -9.000 -9.000 534. -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0 288.8  2.0    0  0.00   57. 1006.    4 NAD-SFC NoSubs
10  3  2  61 12   93.2 -9.000 -9.000 -9.000 719. -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0 289.8  2.0    0  0.00   51. 1005.    5 NAD-SFC NoSubs
10  3  2  61 13   98.0 -9.000 -9.000 -9.000 939. -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0 290.8  2.0    0  0.00   48. 1004.    4 NAD-SFC NoSubs
10  3  2  61 14   87.9  0.098  1.380  0.005 1071.  73.     -1.0  0.1620  0.32  0.15  0.50  306.0  15.0 291.2  2.0    0  0.00   47. 1004.    5 NAD-SFC NoSubs
10  3  2  61 15   72.5  0.209  1.330  0.005 1164. 229.    -11.3  0.0780  0.32  0.16  2.10  296.0  15.0 291.2  2.0    0  0.00   48. 1004.    5 NAD-SFC NoSubs
10  3  2  61 16   46.5  0.236  1.165  0.005 1219. 276.    -25.4  0.0780  0.32  0.18  2.60  288.0  15.0 291.0  2.0    0  0.00   52. 1004.    6 NAD-SFC NoSubs
10  3  2  61 17   14.1  0.289  0.786  0.005 1233. 373.   -153.3  0.0780  0.32  0.27  3.60  290.0  15.0 290.2  2.0    0  0.00   61. 1004.    8 NAD-SFC NoSubs
10  3  2  61 18  -14.6  0.300 -9.000 -9.000 -999. 393.    165.4  0.0780  0.32  0.55  4.10  296.0  15.0 289.2  2.0    0  0.00   66. 1004.   10 NAD-SFC NoSubs
10  3  2  61 19  -23.2  0.258 -9.000 -9.000 -999. 316.     66.5  0.0780  0.32  1.00  3.60  293.0  15.0 288.5  2.0    0  0.00   68. 1005.    6 NAD-SFC NoSubs
10  3  2  61 20  -28.4  0.281 -9.000 -9.000 -999. 357.     69.9  0.0310  0.32  1.00  4.60  268.0  15.0 287.5  2.0    0  0.00   72. 1005.    4 NAD-SFC NoSubs
10  3  2  61 21  -28.7  0.281 -9.000 -9.000 -999. 357.     69.4  0.0310  0.32  1.00  4.60  265.0  15.0 285.5  2.0    0  0.00   84. 1006.    4 NAD-SFC NoSubs
10  3  2  61 22  -26.4  0.257 -9.000 -9.000 -999. 314.     58.0  0.0780  0.32  1.00  3.60  274.0  15.0 284.2  2.0    0  0.00   89. 1006.    4 NAD-SFC NoSubs
10  3  2  61 23  -15.1  0.182 -9.000 -9.000 -999. 188.     35.6  0.0780  0.32  1.00  2.60  280.0  15.0 283.9  2.0    0  0.00   90. 1007.    4 NAD-SFC NoSubs
10  3  2  61 24   -2.7  0.083 -9.000 -9.000 -999.  63.     19.2  0.0780  0.32  1.00  1.00  289.0  15.0 283.5  2.0    0  0.00   91. 1007.    4 NAD-SFC NoSubs
10  3  3  62  1   -1.2  0.072 -9.000 -9.000 -999.  47.     28.8  0.0760  0.32  1.00  0.50   79.0  15.0 283.2  2.0    0  0.00   92. 1007.    3 NAD-SFC NoSubs
10  3  3  62  2   -1.1  0.071 -9.000 -9.000 -999.  46.     28.5  0.0760  0.32  1.00  0.50   78.0  15.0 283.0  2.0    0  0.00   92. 1007.    4 NAD-SFC NoSubs
10  3  3  62  3   -1.0  0.065 -9.000 -9.000 -999.  40.     26.2  0.0310  0.32  1.00  0.50  249.0  15.0 282.6  2.0    0  0.00   92. 1007.    4 NAD-SFC NoSubs
10  3  3  62  4   -1.0  0.066 -9.000 -9.000 -999.  41.     26.5  0.0340  0.32  1.00  0.50  233.0  15.0 282.1  2.0    0  0.00   93. 1007.    4 NAD-SFC NoSubs
10  3  3  62  5   -4.1  0.091 -9.000 -9.000 -999.  66.     16.9  0.0340  0.32  1.00  1.50  225.0  15.0 281.6  2.0    0  0.00   94. 1007.    4 NAD-SFC NoSubs
10  3  3  62  6   -7.7  0.124 -9.000 -9.000 -999. 104.     22.0  0.0340  0.32  1.00  2.10  224.0  15.0 281.2  2.0    0  0.00   94. 1007.    4 NAD-SFC NoSubs
10  3  3  62  7   -7.7  0.124 -9.000 -9.000 -999. 104.     22.0  0.0340  0.32  1.00  2.10  229.0  15.0 280.8  2.0    0  0.00   92. 1008.    4 NAD-SFC NoSubs
10  3  3  62  8    8.3  0.118  0.277  0.005  92.  98.     -17.9  0.0340  0.32  0.33  1.50  228.0  15.0 281.2  2.0    0  0.00   86. 1008.    4 NAD-SFC NoSubs
10  3  3  62  9   40.2  0.065  0.704  0.005 312.  41.     -1.0  0.0340  0.32  0.20  0.50  223.0  15.0 283.2  2.0    0  0.00   73. 1008.    3 NAD-SFC NoSubs
10  3  3  62 10   67.7 -9.000 -9.000 -9.000 443. -999. -99999.0  0.0879  0.32  0.16  0.00    0.0  15.0 285.2  2.0    0  0.00   65. 1008.    3 NAD-SFC NoSubs
10  3  3  62 11   86.2  0.077  1.112  0.005 573.  52.     -1.0  0.0510  0.32  0.15  0.50  107.0  15.0 286.8  2.0    0  0.00   57. 1007.    4 NAD-SFC NoSubs
10  3  3  62 12   87.9 -9.000 -9.000 -9.000 686. -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0 287.8  2.0    0  0.00   51. 1006.    6 NAD-SFC NoSubs
10  3  3  62 13   80.1  0.072  1.207  0.005 788.  46.     -1.0  0.0340  0.32  0.15  0.50  226.0  15.0 288.2  2.0    0  0.00   50. 1005.    7 NAD-SFC NoSubs
10  3  3  62 14   61.7  0.141  1.139  0.005 859. 127.     -4.1  0.0340  0.32  0.15  1.50  236.0  15.0 288.4  2.0    0  0.00   52. 1005.    8 NAD-SFC NoSubs
10  3  3  62 15   17.3  0.163  0.752  0.005 878. 157.    -22.2  0.0340  0.32  0.16  2.10  233.0  15.0 288.5  2.0    0  0.00   54. 1004.   10 NAD-SFC NoSubs
10  3  3  62 16   49.3  0.272  1.085  0.005 928. 340.    -36.6  0.0780  0.32  0.18  3.10  273.0  15.0 287.6  2.0    0  0.00   63. 1004.    5 NAD-SFC NoSubs
10  3  3  62 17   19.8  0.145  0.806  0.005 945. 143.    -13.9  0.0780  0.32  0.27  1.50  272.0  15.0 286.5  2.0    0  0.51   77. 1004.    4 NAD-SFC NoSubs
10  3  3  62 18   -1.7  0.069 -9.000 -9.000 -999.  46.     16.7  0.0380  0.32  0.55  1.00  169.0  15.0 286.2  2.0    0  0.51   79. 1004.    5 NAD-SFC NoSubs
10  3  3  62 19  -11.6  0.153 -9.000 -9.000 -999. 144.     27.7  0.0310  0.32  1.00  2.60  263.0  15.0 286.1  2.0    0  0.51   78. 1004.    4 NAD-SFC NoSubs
10  3  3  62 20  -28.6  0.281 -9.000 -9.000 -999. 357.     69.4  0.0310  0.32  1.00  4.60  266.0  15.0 285.4  2.0    0  0.00   82. 1005.    4 NAD-SFC NoSubs
10  3  3  62 21  -34.0  0.333 -9.000 -9.000 -999. 460.     96.9  0.0780  0.32  1.00  4.60  282.0  15.0 284.4  2.0    0  0.00   83. 1005.    4 NAD-SFC NoSubs
10  3  3  62 22  -30.3  0.295 -9.000 -9.000 -999. 385.     75.9  0.0780  0.32  1.00  4.10  278.0  15.0 283.4  2.0    0  0.00   84. 1006.    4 NAD-SFC NoSubs
10  3  3  62 23  -26.5  0.257 -9.000 -9.000 -999. 314.     57.6  0.0780  0.32  1.00  3.60  291.0  15.0 282.6  2.0    0  0.00   84. 1006.    4 NAD-SFC NoSubs
10  3  3  62 24  -26.6  0.257 -9.000 -9.000 -999. 313.     57.5  0.0780  0.32  1.00  3.60  285.0  15.0 281.9  2.0    0  0.00   85. 1006.    4 NAD-SFC NoSubs
10  3  4  63  1  -26.7  0.257 -9.000 -9.000 -999. 313.     57.3  0.0780  0.32  1.00  3.60  280.0  15.0 281.1  2.0    0  0.00   86. 1006.    4 NAD-SFC NoSubs
10  3  4  63  2  -25.4  0.258 -9.000 -9.000 -999. 314.     60.3  0.0780  0.32  1.00  3.60  285.0  15.0 280.8  2.0    0  0.00   86. 1006.    5 NAD-SFC NoSubs
10  3  4  63  3  -23.9  0.258 -9.000 -9.000 -999. 315.     64.6  0.0780  0.32  1.00  3.60  293.0  15.0 280.8  2.0    0  0.00   86. 1006.    6 NAD-SFC NoSubs
10  3  4  63  4  -23.9  0.258 -9.000 -9.000 -999. 315.     64.6  0.0780  0.32  1.00  3.60  286.0  15.0 280.8  2.0    0  0.00   85. 1006.    6 NAD-SFC NoSubs
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10	3	4	63	5	-18.8	0.221	-9.000	-9.000	-999.	250.	51.4	0.0780	0.32	1.00	3.10	298.0	15.0	280.8	2.0	0	0.00	85.	1007.	7	NAD-SFC NoSubs
10	3	4	63	6	-9.2	0.145	-9.000	-9.000	-999.	134.	29.5	0.0780	0.32	1.00	2.10	296.0	15.0	280.8	2.0	0	0.00	85.	1007.	6	NAD-SFC NoSubs
10	3	4	63	7	-8.9	0.145	-9.000	-9.000	-999.	133.	30.9	0.0780	0.32	0.73	2.10	287.0	15.0	280.5	2.0	0	0.00	85.	1008.	7	NAD-SFC NoSubs
10	3	4	63	8	9.2	0.321	0.271	0.005	78.	437.	-324.5	0.0780	0.32	0.32	4.10	299.0	15.0	281.4	2.0	0	0.00	75.	1008.	6	NAD-SFC NoSubs
10	3	4	63	9	40.1	0.307	0.693	0.005	299.	409.	-65.1	0.1620	0.32	0.20	3.10	307.0	15.0	282.5	2.0	0	0.00	69.	1008.	5	NAD-SFC NoSubs
10	3	4	63	10	14.9	0.292	0.525	0.005	348.	379.	-149.7	0.1620	0.32	0.16	3.10	314.0	15.0	283.8	2.0	0	0.00	61.	1008.	10	NAD-SFC NoSubs
10	3	4	63	11	19.9	0.255	0.610	0.005	410.	310.	-75.0	0.1620	0.32	0.15	2.60	310.0	15.0	284.4	2.0	0	0.00	57.	1008.	10	NAD-SFC NoSubs
10	3	4	63	12	94.0	0.245	1.209	0.005	676.	292.	-14.1	0.1620	0.32	0.15	2.10	316.0	15.0	285.4	2.0	0	0.00	52.	1007.	5	NAD-SFC NoSubs
10	3	4	63	13	98.7	0.296	1.348	0.005	893.	386.	-23.6	0.1880	0.32	0.15	2.60	333.0	15.0	286.2	2.0	0	0.00	47.	1007.	4	NAD-SFC NoSubs
10	3	4	63	14	91.3	0.336	1.415	0.005	1115.	467.	-37.2	0.1880	0.32	0.15	3.10	338.0	15.0	286.8	2.0	0	0.00	45.	1007.	4	NAD-SFC NoSubs
10	3	4	63	15	75.3	0.331	1.399	0.005	1306.	457.	-43.2	0.1880	0.32	0.16	3.10	353.0	15.0	287.1	2.0	0	0.00	44.	1007.	4	NAD-SFC NoSubs
10	3	4	63	16	51.1	0.363	1.251	0.005	1377.	526.	-84.3	0.1880	0.32	0.18	3.60	359.0	15.0	287.1	2.0	0	0.00	44.	1007.	4	NAD-SFC NoSubs
10	3	4	63	17	20.5	0.264	0.927	0.005	1397.	331.	-80.7	0.1900	0.32	0.26	2.60	14.0	15.0	286.9	2.0	0	0.00	51.	1007.	4	NAD-SFC NoSubs
10	3	4	63	18	-12.1	0.179	-9.000	-9.000	-999.	184.	42.2	0.1900	0.32	0.54	2.10	14.0	15.0	286.2	2.0	0	0.00	54.	1008.	3	NAD-SFC NoSubs
10	3	4	63	19	-13.6	0.177	-9.000	-9.000	-999.	178.	36.5	0.1900	0.32	1.00	2.10	23.0	15.0	285.2	2.0	0	0.00	58.	1008.	3	NAD-SFC NoSubs
10	3	4	63	20	-6.0	0.114	-9.000	-9.000	-999.	94.	22.6	0.1280	0.32	1.00	1.50	58.0	15.0	284.2	2.0	0	0.00	63.	1008.	3	NAD-SFC NoSubs
10	3	4	63	21	-15.3	0.180	-9.000	-9.000	-999.	184.	34.5	0.0760	0.32	1.00	2.60	89.0	15.0	283.2	2.0	0	0.00	67.	1008.	3	NAD-SFC NoSubs
10	3	4	63	22	-25.4	0.237	-9.000	-9.000	-999.	277.	46.9	0.0510	0.32	1.00	3.60	110.0	15.0	282.0	2.0	0	0.00	72.	1008.	3	NAD-SFC NoSubs
10	3	4	63	23	-25.0	0.232	-9.000	-9.000	-999.	269.	45.0	0.0460	0.32	1.00	3.60	129.0	15.0	281.1	2.0	0	0.00	75.	1008.	3	NAD-SFC NoSubs
10	3	4	63	24	-25.1	0.232	-9.000	-9.000	-999.	269.	44.9	0.0460	0.32	1.00	3.60	137.0	15.0	280.6	2.0	0	0.00	76.	1008.	3	NAD-SFC NoSubs
10	3	5	64	1	-19.1	0.198	-9.000	-9.000	-999.	212.	36.5	0.0460	0.32	1.00	3.10	140.0	15.0	280.2	2.0	0	0.00	77.	1008.	3	NAD-SFC NoSubs
10	3	5	64	2	-8.5	0.130	-9.000	-9.000	-999.	114.	23.2	0.0460	0.32	1.00	2.10	140.0	15.0	279.8	2.0	0	0.00	79.	1008.	3	NAD-SFC NoSubs
10	3	5	64	3	-4.5	0.096	-9.000	-9.000	-999.	72.	17.7	0.0460	0.32	1.00	1.50	136.0	15.0	279.2	2.0	0	0.00	81.	1008.	3	NAD-SFC NoSubs
10	3	5	64	4	-4.6	0.098	-9.000	-9.000	-999.	73.	18.1	0.0510	0.32	1.00	1.50	117.0	15.0	278.8	2.0	0	0.00	83.	1008.	3	NAD-SFC NoSubs
10	3	5	64	5	-2.5	0.080	-9.000	-9.000	-999.	55.	18.4	0.0510	0.32	1.00	1.00	110.0	15.0	278.2	2.0	0	0.00	84.	1008.	3	NAD-SFC NoSubs
10	3	5	64	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	277.8	2.0	0	0.00	87.	1008.	3	NAD-SFC NoSubs
10	3	5	64	7	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	0.71	0.00	0.0	15.0	277.2	2.0	0	0.00	90.	1008.	3	NAD-SFC NoSubs
10	3	5	64	8	9.0	-9.000	-9.000	-9.000	46.	-999.	-99999.0	0.0879	0.32	0.32	0.00	0.0	15.0	279.0	2.0	0	0.00	83.	1008.	3	NAD-SFC NoSubs
10	3	5	64	9	41.1	-9.000	-9.000	-9.000	142.	-999.	-99999.0	0.0879	0.32	0.20	0.00	0.0	15.0	281.8	2.0	0	0.00	71.	1008.	2	NAD-SFC NoSubs
10	3	5	64	10	68.8	-9.000	-9.000	-9.000	327.	-999.	-99999.0	0.0879	0.32	0.16	0.00	0.0	15.0	283.8	2.0	0	0.00	62.	1007.	2	NAD-SFC NoSubs
10	3	5	64	11	88.4	-9.000	-9.000	-9.000	576.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	285.2	2.0	0	0.00	54.	1007.	2	NAD-SFC NoSubs
10	3	5	64	12	99.1	-9.000	-9.000	-9.000	762.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	286.6	2.0	0	0.00	47.	1005.	2	NAD-SFC NoSubs
10	3	5	64	13	100.8	-9.000	-9.000	-9.000	900.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	287.8	2.0	0	0.00	42.	1004.	2	NAD-SFC NoSubs
10	3	5	64	14	93.3	0.098	1.372	0.008	992.	74.	-1.0	0.1620	0.32	0.15	0.50	324.0	15.0	288.4	2.0	0	0.00	40.	1003.	2	NAD-SFC NoSubs
10	3	5	64	15	76.7	0.151	1.304	0.008	1035.	140.	-4.0	0.1880	0.32	0.16	1.00	330.0	15.0	288.6	2.0	0	0.00	39.	1003.	2	NAD-SFC NoSubs
10	3	5	64	16	51.7	0.239	1.154	0.009	1062.	280.	-23.6	0.1880	0.32	0.18	2.10	351.0	15.0	288.4	2.0	0	0.00	44.	1002.	2	NAD-SFC NoSubs
10	3	5	64	17	20.7	0.306	0.854	0.009	1072.	406.	-123.2	0.1880	0.32	0.26	3.10	359.0	15.0	287.6	2.0	0	0.00	51.	1002.	3	NAD-SFC NoSubs
10	3	5	64	18	-21.6	0.271	-9.000	-9.000	-999.	339.	82.1	0.1900	0.32	0.53	3.10	13.0	15.0	286.6	2.0	0	0.00	57.	1002.	3	NAD-SFC NoSubs
10	3	5	64	19	-21.1	0.223	-9.000	-9.000	-999.	253.	46.9	0.1900	0.32	1.00	2.60	9.0	15.0	285.9	2.0	0	0.00	60.	1002.	3	NAD-SFC NoSubs
10	3	5	64	20	-6.8	0.125	-9.000	-9.000	-999.	110.	25.4	0.1880	0.32	1.00	1.50	344.0	15.0	285.5	2.0	0	0.00	62.	1003.	3	NAD-SFC NoSubs
10	3	5	64	21	-9.8	0.144	-9.000	-9.000	-999.	131.	27.2	0.0780	0.32	1.00	2.10	296.0	15.0	285.2	2.0	0	0.00	63.	1003.	3	NAD-SFC NoSubs
10	3	5	64	22	-22.1	0.219	-9.000	-9.000	-999.	247.	42.8	0.0780	0.32	1.00	3.10	298.0	15.0	284.8	2.0	0	0.00	65.	1003.	3	NAD-SFC NoSubs
10	3	5	64	23	-27.4	0.258	-9.000	-9.000	-999.	315.	56.2	0.1620	0.32	1.00	3.10	304.0	15.0	284.2	2.0	0	0.00	68.	1003.	3	NAD-SFC NoSubs
10	3	5	64	24	-19.9	0.214	-9.000	-9.000	-999.	238.	44.1	0.1620	0.32	1.00	2.60	307.0	15.0	283.8	2.0	0	0.00	70.	1003.	3	NAD-SFC NoSubs
10	3	6	65	1	-12.7	0.170	-9.000	-9.000	-999.	168.	34.3	0.1620	0.32	1.00	2.10	316.0	15.0	283.6	2.0	0	0.00	71.	1003.	3	NAD-SFC NoSubs
10	3	6	65	2	-6.8	0.125	-9.000	-9.000	-999.	106.	25.3	0.1880	0.32	1.00	1.50	330.0	15.0	283.4	2.0	0	0.00	72.	1003.	3	NAD-SFC NoSubs
10	3	6	65	3	-1.5	0.081	-9.000	-9.000	-999.	55.	31.4	0.1880	0.32	1.00	0.50	330.0	15.0	283.2	2.0	0	0.00	73.	1003.	2	NAD-SFC NoSubs
10	3	6	65	4	-1.0	0.067	-9.000	-9.000	-999.	42.	26.8	0.0310	0.32	1.00	0.50	267.0	15.0	283.0	2.0	0	0.00	75.	1002.	2	NAD-SFC NoSubs
10	3	6	65	5	-1.0	0.067	-9.000	-9.000	-999.	42.	26.9	0.0310	0.32	1.00	0.50	260.0	15.0	282.8	2.0	0	0.00	76.	1002.	2	NAD-SFC NoSubs
10	3	6	65	6	-2.8	0.085	-9.000	-9.000	-999.	59.	19.4	0.0780	0.32	1.00	1.00	291.0	15.0	282.8	2.0	0	0.00	77.	1002.	2	NAD-SFC NoSubs
10	3	6	65	7	-6.5	0.121	-9.000	-9.000	-999.	100.	24.0	0.1620	0.32	0.70	1.50	320.0	15.0	282.5	2.0	0	0.00	78.	1002.	2	NAD-SFC NoSubs
10	3	6	65	8	9.2	0.161	0.258	0.006	67.	155.	-40.5	0.1880	0.32	0.31	1.50	345.0	15.0	282.6	2.0	0	0.00	79.	1002.	2	NAD-SFC NoSubs
10	3	6	65	9	42.9	0.185	0.595	0.005	176.	191.	-13.2	0.1880	0.32	0.20	1.50	348.0	15.0	283.8	2.0	0	0.00	69.	1002.	3	NAD-SFC NoSubs
10	3	6	65	10	70.2	0.194	0.857	0.005	320.	206.	-9.3	0.1880	0.32	0.16	1.50	341.0	15.0	284.9	2.0	0	0.00	63.	1001.	3	NAD-SFC NoSubs
10	3	6	65	11	89.6	0.200	1.075	0.005	496.	215.	-8.0	0.1880	0.32	0.15	1.50	348.0	15.0	286.5	2.0	0	0.00	53.	1001.	3	NAD-SFC NoSubs
10	3	6	65	12	100.3	0.297	1.238	0.005	674.	388.	-23.2	0.1880	0.32	0.15	2.60	360.0	15.0	288.0	2.0	0	0.00	45.	999.	3	NAD-SFC NoSubs
10	3	6	65	13	101.9	0.381	1.335	0.005	833.	565.	-48.4	0.1900	0.32	0.15	3.60	12.0	15.0	289.1	2.0	0	0.00	42.	999.	3	NAD-SFC NoSubs
10	3	6	65	14	94.3	0.461	1.364	0.005	958.	752.	-92.7	0.1880	0.32	0.15	4.60	357.0	15.0	289.5	2.0	0	0.00	43.	998.	3	NAD-SFC NoSubs
10	3	6	65	15	77.7	0.499	1.323	0.005	1061.	845.	-142.1	0.1880	0.32	0.16	5.10	341.0	15.0	288.9	2.0	0	0.00	50.	997.	3	NAD-SFC NoSubs
10	3	6	65	16	42.8	0.445	1.098	0.005	1102.	714.	-182.7	0.1880	0.32	0.18	4.60	339.0	15.0	284.8	2.0	0	1.02	86.	999.	7	NAD-SFC NoSubs
10	3	6	65	17	18.1	0.389	0.829	0.005	1123.	585.	-290.9	0.1880	0.32	0.26	4.10	351.0	15.0	284.2	2.0	0	1.27	92.	999.	7	NAD-SFC NoSubs
10	3	6	65	18	-19.9	0.318	-9.000	-9.000	-999.	433.	143.6	0.1900	0.32	0.52	3.60	9.0	15.0	284.1	2.0	0	1.52	95.	999.	6	NAD-SFC NoSubs
10	3	6	65	19	-36.8	0.360	-9.000	-9.000	-999.	519.	113.6	0.1900	0.32	1.00	4.10	26.0	15.0	283.9	2.0	0	1.02	96.	1000.	4	NAD-SFC NoSubs
10	3	6	65	20	-20.8	0.223	-9.000	-9.000	-999.	265.	47.7	0.1900	0.32	1.00	2.60	25.0	15.0	283.8	2.0	0	0.25	96.	1000.	4	NAD-SFC NoSubs
10	3	6	65	21	-3.3	0.094	-9.000	-9.000	-999.	84.	21.9	0.1880	0.32	1.00	1.00	337.0	15.0	283.8	2.0	0	0.00	96.	1000.	4	NAD-SFC NoSubs
10	3	6	65	22	-6.3	0.120	-9.000	-9.000	-999.	100.	24.6	0.1620	0.32	1.00	1.50	300.0	15.0	283.5	2.0	0	0.00	97.	1001.	4	NAD-SFC NoSubs
10	3	6	65	23	-12.2	0.170	-9.000	-9.000	-999.	169.	36.1	0.1620	0.32	1.00	2.10	302.0	15.0	283.2	2.0	0	0.00	99.	1001.	5	NAD-SFC NoSubs
10	3	6	65	24	-5.9	0.120	-9.000	-9.000	-999.	100.	25.8	0.1620	0.32	1.00	1.50	310.0	15.0	282.9	2.0	0	0.00	100.	1001.	6	NAD-SFC NoSubs
10	3	7	66	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	282.8	2.0	0	0.00	100.	1001.	7	NAD-SFC NoSubs
10	3	7	66	2	-0.9	0.063	-9.000	-9.000	-999.	38.	25.3	0.0330	0.32	1.00	0.50	182.0	15.0	282.6	2.0	0	0.00	100.	1001.	6	NAD-SFC NoSubs
10	3	7	66	3	-0.9	0.064	-9.000	-9.000	-999.	39.	25.8	0.0310	0.32	1.00	0.50	241.0	15.0	282.5	2.0	0	0.00	100.	1001.	5	NAD-SFC NoSubs
10	3	7	66	4	-2.5	0.082	-9.000	-9.000	-999.	56.	19.1	0.0780	0.32	1.00	1.00	286.0	15.0	282.6	2.0	0	0.00	100.	1001.	5	NAD-SFC NoSubs
10	3	7	66	5	-11.4	0.171	-9.000	-9.000	-999.	170.	39.3	0.1620	0.32	1.00	2.10	327.0	15.0	282.6	2.0	0	0.25	100.	1002.	7	NAD-SFC NoSubs
10	3	7	66	6	-15.2	0.272	-9.000	-9.000	-999.	341.	118.5	0.1880	0.32	1.00	3.10	351.0	15.0	282.6	2.0	0	0.51	100.	1002.	10	NAD-SFC NoSubs
10	3	7	66	7	-1.7	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	0.68	0.00	0.0	15.0	282.6	2.0	0	1.27	100.	1003.	10	NAD-SFC NoSubs
10	3	7	66	8	11.9	0.257	0.350	0.005	129.	312.	-127.4	0.1900	0.32	0.31	2.60	11.0	15.0	282.9	2.0	0	0.51	96.	1003.	5	NAD-SFC NoSubs
10	3	7	66	9	43.7	0.236	0.677	0.005	254.	275.	-26.9	0.1900	0.32	0.19	2.10	16.0	15.0	283.8	2.0	0	0.00	89.	1003.	4	NAD-SFC NoSubs

10	3	7	66	10	70.4	0.150	0.884	0.005	351.	142.	-4.3	0.1900	0.32	0.16	1.00	8.0	15.0	284.9	2.0	0	0.00	81.	1003.	4	NAD-SFC NoSubs
10	3	7	66	11	90.4	-9.000	-9.000	-9.000	527.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	286.8	2.0	0	0.00	69.	1002.	3	NAD-SFC NoSubs
10	3	7	66	12	96.6	0.085	1.247	0.005	718.	60.	-1.0	0.0780	0.32	0.15	0.50	273.0	15.0	288.0	2.0	0	0.00	61.	1002.	5	NAD-SFC NoSubs
10	3	7	66	13	101.3	0.131	1.368	0.005	903.	114.	-2.0	0.0780	0.32	0.14	1.00	279.0	15.0	289.1	2.0	0	0.00	53.	1001.	4	NAD-SFC NoSubs
10	3	7	66	14	95.1	0.150	1.407	0.005	1045.	139.	-3.2	0.1620	0.32	0.15	1.00	302.0	15.0	290.0	2.0	0	0.00	46.	1000.	3	NAD-SFC NoSubs
10	3	7	66	15	78.7	0.191	1.363	0.005	1148.	201.	-7.9	0.1620	0.32	0.15	1.50	328.0	15.0	290.6	2.0	0	0.00	41.	1000.	3	NAD-SFC NoSubs
10	3	7	66	16	54.0	-9.000	-9.000	-9.000	1214.	-999.	-99999.0	0.0879	0.32	0.18	0.00	0.0	15.0	290.8	2.0	0	0.00	40.	999.	3	NAD-SFC NoSubs
10	3	7	66	17	22.4	0.246	0.920	0.005	1239.	292.	-58.8	0.1280	0.32	0.26	2.60	32.0	15.0	290.2	2.0	0	0.00	47.	999.	3	NAD-SFC NoSubs
10	3	7	66	18	-16.1	0.221	-9.000	-9.000	-999.	249.	59.5	0.0760	0.32	0.52	3.10	62.0	15.0	289.2	2.0	0	0.00	52.	1000.	3	NAD-SFC NoSubs
10	3	7	66	19	-19.3	0.202	-9.000	-9.000	-999.	218.	38.1	0.0510	0.32	1.00	3.10	101.0	15.0	287.8	2.0	0	0.00	57.	1001.	3	NAD-SFC NoSubs
10	3	7	66	20	-18.8	0.198	-9.000	-9.000	-999.	212.	37.0	0.0460	0.32	1.00	3.10	129.0	15.0	286.5	2.0	0	0.00	63.	1002.	3	NAD-SFC NoSubs
10	3	7	66	21	-18.5	0.198	-9.000	-9.000	-999.	212.	37.7	0.0460	0.32	1.00	3.10	138.0	15.0	285.6	2.0	0	0.00	66.	1002.	4	NAD-SFC NoSubs
10	3	7	66	22	-4.3	0.095	-9.000	-9.000	-999.	76.	18.0	0.0460	0.32	1.00	1.50	120.0	15.0	284.8	2.0	0	0.00	69.	1003.	4	NAD-SFC NoSubs
10	3	7	66	23	-3.2	0.091	-9.000	-9.000	-999.	66.	21.4	0.1620	0.32	1.00	1.00	315.0	15.0	283.8	2.0	0	0.00	74.	1004.	4	NAD-SFC NoSubs
10	3	7	66	24	-25.3	0.259	-9.000	-9.000	-999.	316.	61.4	0.1620	0.32	1.00	3.10	310.0	15.0	283.0	2.0	0	0.00	80.	1004.	5	NAD-SFC NoSubs
10	3	8	67	1	-33.2	0.392	-9.000	-9.000	-999.	589.	162.9	0.1620	0.32	1.00	4.60	312.0	15.0	282.4	2.0	0	0.00	87.	1005.	7	NAD-SFC NoSubs
10	3	8	67	2	-17.2	0.306	-9.000	-9.000	-999.	411.	149.9	0.1620	0.32	1.00	3.60	308.0	15.0	281.9	2.0	0	0.00	91.	1006.	10	NAD-SFC NoSubs
10	3	8	67	3	-8.5	0.146	-9.000	-9.000	-999.	155.	32.9	0.0780	0.32	1.00	2.10	298.0	15.0	281.9	2.0	0	0.25	92.	1007.	8	NAD-SFC NoSubs
10	3	8	67	4	-3.7	0.103	-9.000	-9.000	-999.	80.	26.7	0.0780	0.32	1.00	1.50	276.0	15.0	282.2	2.0	0	0.25	91.	1007.	10	NAD-SFC NoSubs
10	3	8	67	5	-2.1	0.081	-9.000	-9.000	-999.	56.	22.8	0.1620	0.32	1.00	1.00	302.0	15.0	282.2	2.0	0	0.51	92.	1008.	10	NAD-SFC NoSubs
10	3	8	67	6	-4.7	0.121	-9.000	-9.000	-999.	101.	33.7	0.1620	0.32	1.00	1.50	314.0	15.0	282.2	2.0	0	0.25	94.	1008.	10	NAD-SFC NoSubs
10	3	8	67	7	-9.5	0.174	-9.000	-9.000	-999.	174.	50.1	0.1620	0.32	0.67	2.10	318.0	15.0	282.2	2.0	0	0.25	94.	1009.	10	NAD-SFC NoSubs
10	3	8	67	8	0.5	0.187	0.068	0.005	22.	195.	-1165.8	0.1620	0.32	0.30	2.10	310.0	15.0	282.4	2.0	0	0.25	93.	1009.	10	NAD-SFC NoSubs
10	3	8	67	9	8.8	0.245	0.264	0.005	75.	291.	-149.9	0.1620	0.32	0.19	2.60	300.0	15.0	282.8	2.0	0	0.25	90.	1010.	10	NAD-SFC NoSubs
10	3	8	67	10	15.8	0.376	0.490	0.006	268.	552.	-301.3	0.1620	0.32	0.16	4.10	324.0	15.0	283.9	2.0	0	0.00	78.	1010.	10	NAD-SFC NoSubs
10	3	8	67	11	60.8	0.367	0.934	0.006	483.	534.	-73.2	0.1880	0.32	0.15	3.60	331.0	15.0	285.0	2.0	0	0.00	70.	1010.	8	NAD-SFC NoSubs
10	3	8	67	12	23.5	0.350	0.699	0.006	521.	497.	-163.5	0.1880	0.32	0.15	3.60	330.0	15.0	285.8	2.0	0	0.00	65.	1009.	10	NAD-SFC NoSubs
10	3	8	67	13	24.0	0.308	0.719	0.006	558.	411.	-109.3	0.1880	0.32	0.14	3.10	333.0	15.0	286.4	2.0	0	0.00	61.	1009.	10	NAD-SFC NoSubs
10	3	8	67	14	22.1	0.338	0.712	0.006	589.	472.	-157.7	0.1620	0.32	0.15	3.60	325.0	15.0	286.5	2.0	0	0.00	59.	1009.	10	NAD-SFC NoSubs
10	3	8	67	15	17.9	0.377	0.673	0.006	613.	555.	-269.7	0.1620	0.32	0.15	4.10	321.0	15.0	286.4	2.0	0	0.00	61.	1009.	10	NAD-SFC NoSubs
10	3	8	67	16	36.5	0.399	0.875	0.006	660.	605.	-156.7	0.1880	0.32	0.18	4.10	332.0	15.0	286.1	2.0	0	0.00	63.	1008.	8	NAD-SFC NoSubs
10	3	8	67	17	3.5	0.280	0.401	0.006	663.	364.	-564.0	0.1620	0.32	0.25	3.10	329.0	15.0	285.8	2.0	0	0.00	69.	1008.	10	NAD-SFC NoSubs
10	3	8	67	18	-17.2	0.365	-9.000	-9.000	-999.	530.	255.8	0.1880	0.32	0.51	4.10	334.0	15.0	284.8	2.0	0	0.25	77.	1009.	10	NAD-SFC NoSubs
10	3	8	67	19	-30.5	0.361	-9.000	-9.000	-999.	521.	138.9	0.1880	0.32	1.00	4.10	344.0	15.0	284.0	2.0	0	0.25	80.	1009.	7	NAD-SFC NoSubs
10	3	8	67	20	-23.8	0.259	-9.000	-9.000	-999.	323.	65.9	0.1620	0.32	1.00	3.10	300.0	15.0	283.8	2.0	0	0.00	74.	1009.	6	NAD-SFC NoSubs
10	3	8	67	21	-29.0	0.295	-9.000	-9.000	-999.	385.	80.0	0.0780	0.32	1.00	4.10	281.0	15.0	283.4	2.0	0	0.00	69.	1010.	5	NAD-SFC NoSubs
10	3	8	67	22	-35.8	0.332	-9.000	-9.000	-999.	460.	92.4	0.0780	0.32	1.00	4.60	276.0	15.0	282.0	2.0	0	0.00	74.	1010.	3	NAD-SFC NoSubs
10	3	8	67	23	-36.0	0.332	-9.000	-9.000	-999.	460.	91.8	0.0780	0.32	1.00	4.60	277.0	15.0	280.4	2.0	0	0.00	79.	1010.	3	NAD-SFC NoSubs
10	3	8	67	24	-34.8	0.332	-9.000	-9.000	-999.	460.	95.2	0.0780	0.32	1.00	4.60	284.0	15.0	279.6	2.0	0	0.00	81.	1010.	4	NAD-SFC NoSubs
10	3	9	68	1	-33.1	0.333	-9.000	-9.000	-999.	461.	100.2	0.0780	0.32	1.00	4.60	289.0	15.0	279.4	2.0	0	0.00	81.	1010.	5	NAD-SFC NoSubs
10	3	9	68	2	-31.1	0.333	-9.000	-9.000	-999.	462.	107.3	0.0780	0.32	1.00	4.60	293.0	15.0	279.6	2.0	0	0.00	79.	1010.	6	NAD-SFC NoSubs
10	3	9	68	3	-28.7	0.334	-9.000	-9.000	-999.	463.	116.9	0.0780	0.32	1.00	4.60	288.0	15.0	279.6	2.0	0	0.00	78.	1010.	7	NAD-SFC NoSubs
10	3	9	68	4	-37.5	0.436	-9.000	-9.000	-999.	692.	199.8	0.1620	0.32	1.00	5.10	302.0	15.0	279.5	2.0	0	0.00	77.	1010.	7	NAD-SFC NoSubs
10	3	9	68	5	-43.4	0.435	-9.000	-9.000	-999.	689.	170.8	0.1620	0.32	1.00	5.10	310.0	15.0	278.6	2.0	0	0.00	80.	1010.	5	NAD-SFC NoSubs
10	3	9	68	6	-36.5	0.346	-9.000	-9.000	-999.	495.	102.6	0.1620	0.32	1.00	4.10	312.0	15.0	277.8	2.0	0	0.00	83.	1011.	4	NAD-SFC NoSubs
10	3	9	68	7	-27.6	0.258	-9.000	-9.000	-999.	319.	56.3	0.1620	0.32	0.65	3.10	315.0	15.0	277.2	2.0	0	0.00	83.	1011.	3	NAD-SFC NoSubs
10	3	9	68	8	12.3	0.617	0.350	0.005	125.	1162.	-1724.6	0.1880	0.32	0.30	6.70	340.0	15.0	279.0	2.0	0	0.00	68.	1012.	3	NAD-SFC NoSubs
10	3	9	68	9	45.1	0.583	0.782	0.005	382.	1071.	-396.6	0.1880	0.32	0.19	6.20	342.0	15.0	280.2	2.0	0	0.00	59.	1012.	3	NAD-SFC NoSubs
10	3	9	68	10	71.6	0.591	1.160	0.005	787.	1090.	-259.7	0.1880	0.32	0.16	6.20	336.0	15.0	281.2	2.0	0	0.00	51.	1011.	4	NAD-SFC NoSubs
10	3	9	68	11	90.4	0.596	1.382	0.005	1054.	1103.	-210.7	0.1880	0.32	0.15	6.20	335.0	15.0	282.4	2.0	0	0.00	46.	1011.	4	NAD-SFC NoSubs
10	3	9	68	12	101.9	0.621	1.483	0.005	1155.	1174.	-212.0	0.1620	0.32	0.14	6.70	326.0	15.0	283.4	2.0	0	0.00	42.	1010.	3	NAD-SFC NoSubs
10	3	9	68	13	103.3	0.684	1.530	0.005	1248.	1356.	-279.2	0.1880	0.32	0.14	7.20	332.0	15.0	284.2	2.0	0	0.00	40.	1009.	3	NAD-SFC NoSubs
10	3	9	68	14	95.6	0.683	1.522	0.005	1329.	1354.	-299.5	0.1880	0.32	0.15	7.20	334.0	15.0	284.8	2.0	0	0.00	38.	1009.	3	NAD-SFC NoSubs
10	3	9	68	15	79.1	0.679	1.454	0.005	1399.	1343.	-356.0	0.1880	0.32	0.15	7.20	330.0	15.0	285.2	2.0	0	0.00	36.	1009.	3	NAD-SFC NoSubs
10	3	9	68	16	54.3	0.717	1.297	0.005	1446.	1456.	-611.4	0.1880	0.32	0.18	7.70	334.0	15.0	285.2	2.0	0	0.00	36.	1008.	3	NAD-SFC NoSubs
10	3	9	68	17	21.8	0.435	0.961	0.005	1463.	777.	-338.5	0.1880	0.32	0.25	4.60	335.0	15.0	284.4	2.0	0	0.00	47.	1008.	2	NAD-SFC NoSubs
10	3	9	68	18	-31.8	0.408	-9.000	-9.000	-999.	628.	191.6	0.1880	0.32	0.50	4.60	345.0	15.0	282.9	2.0	0	0.00	53.	1008.	2	NAD-SFC NoSubs
10	3	9	68	19	-38.2	0.346	-9.000	-9.000	-999.	491.	97.4	0.1620	0.32	1.00	4.10	326.0	15.0	281.6	2.0	0	0.00	56.	1009.	2	NAD-SFC NoSubs
10	3	9	68	20	-38.3	0.346	-9.000	-9.000	-999.	488.	97.2	0.1620	0.32	1.00	4.10	326.0	15.0	280.9	2.0	0	0.00	57.	1009.	2	NAD-SFC NoSubs
10	3	9	68	21	-33.5	0.302	-9.000	-9.000	-999.	399.	73.9	0.1620	0.32	1.00	3.60	318.0	15.0	280.5	2.0	0	0.00	58.	1010.	2	NAD-SFC NoSubs
10	3	9	68	22	-28.7	0.258	-9.000	-9.000	-999.	315.	53.9	0.1620	0.32	1.00	3.10	307.0	15.0	280.2	2.0	0	0.00	59.	1010.	2	NAD-SFC NoSubs
10	3	9	68	23	-15.7	0.181	-9.000	-9.000	-999.	187.	34.0	0.0780	0.32	1.00	2.60	297.0	15.0	279.8	2.0	0	0.00	61.	1010.	2	NAD-SFC NoSubs
10	3	9	68	24	-15.8	0.181	-9.000	-9.000	-999.	185.	34.0	0.0780	0.32	1.00	2.60	298.0	15.0	279.1	2.0	0	0.00	65.	1010.	2	NAD-SFC NoSubs
10	3	10	69	1	-15.8	0.181	-9.000	-9.000	-999.	185.	33.9	0.0780	0.32	1.00	2.60	289.0	15.0	278.5	2.0	0	0.00	69.	1010.	2	NAD-SFC NoSubs
10	3	10	69	2	-15.6	0.181	-9.000	-9.000	-999.	185.	34.4	0.0780	0.32	1.00	2.60	290.0	15.0	278.0	2.0	0	0.00	73.	1009.	3	NAD-SFC NoSubs
10	3	10	69	3	-10.0	0.144	-9.000	-9.000	-999.	131.	26.8	0.0780	0.32	1.00	2.10	289.0	15.0	277.5	2.0	0	0.00	77.	1009.	3	NAD-SFC NoSubs
10	3	10	69	4	-5.2	0.105	-9.000	-9.000	-999.	81.	19.8	0.0780	0.32	1.00	1.50	290.0	15.0	277.2	2.0	0	0.00	81.	1009.	3	NAD-SFC NoSubs
10	3	10	69	5	-3.4	0.093	-9.000	-9.000	-999.	68.	21.5	0.1620	0.32	1.00	1.00	307.0	15.0	276.8	2.0	0	0.00	85.	1009.	3	NAD-SFC NoSubs
10	3	10	69	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	276.4	2.0	0	0.00	88.	1009.	4	NAD-SFC NoSubs
10	3	10	69	7	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	0.64	0.00	0.0	15.0	276.0	2.0	0	0.00	91.	1010.	4	NAD-SFC NoSubs
10	3	10	69	8	13.1	-9.000	-9.000	-9.000	67.	-999.	-99999.0	0.0879	0.32	0.29	0.00	0.0	15.0	277.8	2.0	0	0.00	84.	1010.	6	NAD-SFC NoSubs
10	3	10	69	9	42.2	0.088	0.646	0.005	230.	63.	-1.5	0.1620	0.32	0.19	0.50	325.0	15.0	280.0	2.0	0	0.00	72.	1010.	6	NAD-SFC NoSubs
10	3	10	69	10	70.3	0.194	0.956	0.005	447.	205.	-9.4	0.1880	0.32	0.16	1.50	330.0	15.0	281.8	2.0	0	0.00	64.	1009.	5	NAD-SFC NoSubs
10	3	10	69	11	21.0	0.297	0.667	0.005	509.	388.	-111.9	0.1620	0.32	0.15	3.10	322.0	15.0	283.2	2.0	0	0.00	59.	1009.	10	NAD-SFC NoSubs
10	3	10	69	12	82.6	0.374	1.164	0.005	688.	550.	-57.1	0.1880	0.32	0.14	3.60	335.0	15.0	284.4	2.0	0	0.00	54.	1008.	7	NAD-SFC NoSubs
10	3	10	69	13	102.9	0.490	1.335	0.005	831.	823.	-102.8	0.1620	0.32	0.14	5.10	329.0	15.0	285.2	2.0	0	0.00	49.	1007.	4	NAD-SFC NoSubs
10	3	10	69	14	95.4	0.597	1.358	0.006	944.	1105.	-200.2	0.1880	0.32	0.15	6.20	336.0	15.0	285.9	2.0	0	0.00	47.	1007.	4	NAD-SFC NoSubs

10	3	10	69	15	79.1	0.636	1.307	0.007	1014.	1215.	-291.8	0.1880	0.32	0.15	6.70	340.0	15.0	286.1	2.0	0	0.00	47.	1007.	4	NAD-SFC	NoSubs
10	3	10	69	16	55.0	0.610	1.174	0.006	1056.	1145.	-369.8	0.1620	0.32	0.18	6.70	328.0	15.0	286.0	2.0	0	0.00	46.	1006.	3	NAD-SFC	NoSubs
10	3	10	69	17	23.4	0.339	0.887	0.006	1072.	553.	-149.6	0.1620	0.32	0.25	3.60	328.0	15.0	285.5	2.0	0	0.00	54.	1006.	3	NAD-SFC	NoSubs
10	3	10	69	18	-22.0	0.317	-9.000	-9.000	-999.	429.	129.6	0.1880	0.32	0.50	3.60	334.0	15.0	284.4	2.0	0	0.00	58.	1007.	3	NAD-SFC	NoSubs
10	3	10	69	19	-27.6	0.258	-9.000	-9.000	-999.	316.	56.1	0.1620	0.32	1.00	3.10	326.0	15.0	283.6	2.0	0	0.00	59.	1008.	3	NAD-SFC	NoSubs
10	3	10	69	20	-12.8	0.170	-9.000	-9.000	-999.	171.	34.3	0.1620	0.32	1.00	2.10	329.0	15.0	282.8	2.0	0	0.00	61.	1008.	3	NAD-SFC	NoSubs
10	3	10	69	21	-1.5	0.080	-9.000	-9.000	-999.	58.	31.2	0.1880	0.32	1.00	0.50	336.0	15.0	282.1	2.0	0	0.00	63.	1009.	3	NAD-SFC	NoSubs
10	3	10	69	22	-1.4	0.079	-9.000	-9.000	-999.	53.	30.8	0.1620	0.32	1.00	0.50	327.0	15.0	281.4	2.0	0	0.00	65.	1009.	3	NAD-SFC	NoSubs
10	3	10	69	23	-2.8	0.084	-9.000	-9.000	-999.	59.	19.4	0.0780	0.32	1.00	1.00	288.0	15.0	280.8	2.0	0	0.00	67.	1009.	3	NAD-SFC	NoSubs
10	3	10	69	24	-5.2	0.104	-9.000	-9.000	-999.	81.	19.9	0.0780	0.32	1.00	1.50	279.0	15.0	279.9	2.0	0	0.00	69.	1009.	3	NAD-SFC	NoSubs
10	3	11	70	1	-5.3	0.105	-9.000	-9.000	-999.	81.	19.7	0.0780	0.32	1.00	1.50	282.0	15.0	279.2	2.0	0	0.00	70.	1010.	2	NAD-SFC	NoSubs
10	3	11	70	2	-2.4	0.077	-9.000	-9.000	-999.	51.	17.5	0.0310	0.32	1.00	1.00	261.0	15.0	278.6	2.0	0	0.00	72.	1010.	2	NAD-SFC	NoSubs
10	3	11	70	3	-4.3	0.092	-9.000	-9.000	-999.	67.	16.6	0.0340	0.32	1.00	1.50	220.0	15.0	278.0	2.0	0	0.00	75.	1010.	2	NAD-SFC	NoSubs
10	3	11	70	4	-4.2	0.091	-9.000	-9.000	-999.	66.	16.3	0.0310	0.32	1.00	1.50	244.0	15.0	277.5	2.0	0	0.00	76.	1011.	2	NAD-SFC	NoSubs
10	3	11	70	5	-15.8	0.181	-9.000	-9.000	-999.	185.	33.8	0.0780	0.32	1.00	2.60	275.0	15.0	277.2	2.0	0	0.00	76.	1011.	2	NAD-SFC	NoSubs
10	3	11	70	6	-15.8	0.181	-9.000	-9.000	-999.	185.	33.8	0.0780	0.32	1.00	2.60	292.0	15.0	276.9	2.0	0	0.00	76.	1011.	2	NAD-SFC	NoSubs
10	3	11	70	7	-5.1	0.104	-9.000	-9.000	-999.	83.	19.9	0.0780	0.32	0.63	1.50	287.0	15.0	276.6	2.0	0	0.00	77.	1012.	2	NAD-SFC	NoSubs
10	3	11	70	8	13.0	0.161	0.287	0.007	65.	155.	-28.8	0.1620	0.32	0.29	1.50	302.0	15.0	278.2	2.0	0	0.00	67.	1012.	2	NAD-SFC	NoSubs
10	3	11	70	9	46.3	0.066	0.675	0.007	239.	46.	-1.0	0.0340	0.32	0.19	0.50	238.0	15.0	280.0	2.0	0	0.00	59.	1012.	2	NAD-SFC	NoSubs
10	3	11	70	10	73.7	0.107	0.895	0.006	351.	85.	-1.5	0.0310	0.32	0.16	1.00	254.0	15.0	281.8	2.0	0	0.00	51.	1012.	2	NAD-SFC	NoSubs
10	3	11	70	11	93.0	0.130	1.084	0.006	495.	112.	-2.1	0.0780	0.32	0.15	1.00	278.0	15.0	283.5	2.0	0	0.00	45.	1012.	2	NAD-SFC	NoSubs
10	3	11	70	12	103.6	0.151	1.223	0.007	637.	141.	-3.0	0.1620	0.32	0.14	1.00	303.0	15.0	285.2	2.0	0	0.00	39.	1011.	2	NAD-SFC	NoSubs
10	3	11	70	13	105.0	0.152	1.292	0.007	740.	142.	-3.0	0.1620	0.32	0.14	1.00	307.0	15.0	286.5	2.0	0	0.00	36.	1011.	2	NAD-SFC	NoSubs
10	3	11	70	14	97.3	0.196	1.305	0.007	823.	208.	-6.9	0.1620	0.32	0.15	1.50	327.0	15.0	287.5	2.0	0	0.00	35.	1010.	2	NAD-SFC	NoSubs
10	3	11	70	15	80.6	0.197	1.257	0.007	886.	211.	-8.6	0.1880	0.32	0.15	1.50	345.0	15.0	288.1	2.0	0	0.00	34.	1009.	2	NAD-SFC	NoSubs
10	3	11	70	16	55.5	0.189	1.126	0.007	926.	198.	-11.0	0.1880	0.32	0.18	1.50	354.0	15.0	288.2	2.0	0	0.00	36.	1009.	2	NAD-SFC	NoSubs
10	3	11	70	17	23.6	0.174	0.852	0.008	943.	174.	-20.1	0.1880	0.32	0.25	1.50	349.0	15.0	288.1	2.0	0	0.00	41.	1009.	2	NAD-SFC	NoSubs
10	3	11	70	18	-5.6	0.125	-9.000	-9.000	-999.	106.	31.4	0.1880	0.32	0.49	1.50	356.0	15.0	287.4	2.0	0	0.00	44.	1009.	2	NAD-SFC	NoSubs
10	3	11	70	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	286.2	2.0	0	0.00	49.	1009.	2	NAD-SFC	NoSubs
10	3	11	70	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	284.9	2.0	0	0.00	55.	1010.	2	NAD-SFC	NoSubs
10	3	11	70	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	283.6	2.0	0	0.00	61.	1010.	2	NAD-SFC	NoSubs
10	3	11	70	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	282.6	2.0	0	0.00	66.	1010.	2	NAD-SFC	NoSubs
10	3	11	70	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	282.0	2.0	0	0.00	69.	1011.	2	NAD-SFC	NoSubs
10	3	11	70	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	281.4	2.0	0	0.00	72.	1010.	2	NAD-SFC	NoSubs
10	3	12	71	1	-1.2	0.073	-9.000	-9.000	-999.	48.	29.2	0.0760	0.32	1.00	0.50	80.0	15.0	281.0	2.0	0	0.00	74.	1010.	2	NAD-SFC	NoSubs
10	3	12	71	2	-1.2	0.073	-9.000	-9.000	-999.	48.	29.2	0.0760	0.32	1.00	0.50	77.0	15.0	280.8	2.0	0	0.00	75.	1010.	2	NAD-SFC	NoSubs
10	3	12	71	3	-1.1	0.071	-9.000	-9.000	-999.	45.	28.2	0.0510	0.32	1.00	0.50	100.0	15.0	280.5	2.0	0	0.00	76.	1009.	2	NAD-SFC	NoSubs
10	3	12	71	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	280.4	2.0	0	0.00	77.	1009.	2	NAD-SFC	NoSubs
10	3	12	71	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	280.2	2.0	0	0.00	77.	1009.	2	NAD-SFC	NoSubs
10	3	12	71	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	280.2	2.0	0	0.00	77.	1009.	2	NAD-SFC	NoSubs
10	3	12	71	7	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	0.61	0.00	0.0	15.0	280.2	2.0	0	0.00	77.	1009.	2	NAD-SFC	NoSubs
10	3	12	71	8	14.1	-9.000	-9.000	-9.000	52.	-999.	-99999.0	0.0879	0.32	0.28	0.00	0.0	15.0	280.4	2.0	0	0.00	77.	1009.	2	NAD-SFC	NoSubs
10	3	12	71	9	47.5	-9.000	-9.000	-9.000	156.	-999.	-99999.0	0.0879	0.32	0.19	0.00	0.0	15.0	282.8	2.0	0	0.00	64.	1010.	2	NAD-SFC	NoSubs
10	3	12	71	10	75.0	-9.000	-9.000	-9.000	336.	-999.	-99999.0	0.0879	0.32	0.16	0.00	0.0	15.0	285.2	2.0	0	0.00	52.	1010.	2	NAD-SFC	NoSubs
10	3	12	71	11	94.4	-9.000	-9.000	-9.000	512.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	287.1	2.0	0	0.00	44.	1009.	2	NAD-SFC	NoSubs
10	3	12	71	12	104.8	0.197	1.242	0.008	658.	210.	-6.6	0.1620	0.32	0.14	1.50	304.0	15.0	288.0	2.0	0	0.00	40.	1008.	2	NAD-SFC	NoSubs
10	3	12	71	13	106.0	0.410	1.289	0.007	727.	630.	-58.4	0.1620	0.32	0.14	4.10	320.0	15.0	287.8	2.0	0	0.00	42.	1008.	2	NAD-SFC	NoSubs
10	3	12	71	14	97.9	0.379	1.287	0.007	784.	561.	-50.0	0.1880	0.32	0.15	3.60	339.0	15.0	286.2	2.0	0	0.00	55.	1008.	3	NAD-SFC	NoSubs
10	3	12	71	15	80.3	-9.000	-9.000	-9.000	827.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	285.2	2.0	0	0.25	65.	1008.	4	NAD-SFC	NoSubs
10	3	12	71	16	55.8	0.366	1.099	0.007	856.	532.	-79.0	0.1900	0.32	0.17	3.60	23.0	15.0	284.4	2.0	0	0.51	74.	1007.	4	NAD-SFC	NoSubs
10	3	12	71	17	24.7	0.285	0.842	0.007	869.	369.	-84.6	0.1280	0.32	0.25	3.10	32.0	15.0	283.9	2.0	0	0.51	79.	1007.	4	NAD-SFC	NoSubs
10	3	12	71	18	-12.1	0.206	-9.000	-9.000	-999.	227.	65.1	0.1280	0.32	0.48	2.60	35.0	15.0	283.8	2.0	0	0.00	81.	1007.	4	NAD-SFC	NoSubs
10	3	12	71	19	-6.6	0.125	-9.000	-9.000	-999.	108.	26.4	0.1900	0.32	1.00	1.50	14.0	15.0	283.5	2.0	0	0.00	83.	1007.	5	NAD-SFC	NoSubs
10	3	12	71	20	-2.2	0.084	-9.000	-9.000	-999.	58.	23.8	0.1880	0.32	1.00	1.00	351.0	15.0	283.2	2.0	0	0.51	87.	1008.	10	NAD-SFC	NoSubs
10	3	12	71	21	-2.2	0.084	-9.000	-9.000	-999.	58.	23.8	0.1880	0.32	1.00	1.00	347.0	15.0	282.9	2.0	0	0.76	91.	1008.	10	NAD-SFC	NoSubs
10	3	12	71	22	-1.0	0.068	-9.000	-9.000	-999.	43.	27.5	0.1620	0.32	1.00	0.50	307.0	15.0	282.9	2.0	0	0.51	93.	1009.	8	NAD-SFC	NoSubs
10	3	12	71	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	283.0	2.0	0	0.00	93.	1009.	5	NAD-SFC	NoSubs
10	3	12	71	24	-1.1	0.070	-9.000	-9.000	-999.	44.	28.0	0.0760	0.32	1.00	0.50	60.0	15.0	283.0	2.0	0	0.00	95.	1009.	5	NAD-SFC	NoSubs
10	3	13	72	1	-1.4	0.077	-9.000	-9.000	-999.	51.	30.3	0.1900	0.32	1.00	0.50	6.0	15.0	282.8	2.0	0	0.25	99.	1009.	5	NAD-SFC	NoSubs
10	3	13	72	2	-1.1	0.070	-9.000	-9.000	-999.	44.	28.0	0.0780	0.32	1.00	0.50	289.0	15.0	282.9	2.0	0	0.00	99.	1009.	5	NAD-SFC	NoSubs
10	3	13	72	3	-9.7	0.144	-9.000	-9.000	-999.	131.	27.7	0.0780	0.32	1.00	2.10	277.0	15.0	282.9	2.0	0	0.00	97.	1009.	4	NAD-SFC	NoSubs
10	3	13	72	4	-26.6	0.257	-9.000	-9.000	-999.	313.	57.6	0.0780	0.32	1.00	3.60	288.0	15.0	282.4	2.0	0	0.00	96.	1009.	4	NAD-SFC	NoSubs
10	3	13	72	5	-30.6	0.295	-9.000	-9.000	-999.	384.	75.4	0.0780	0.32	1.00	4.10	299.0	15.0	281.6	2.0	0	0.00	97.	1009.	4	NAD-SFC	NoSubs
10	3	13	72	6	-37.3	0.437	-9.000	-9.000	-999.	692.	201.1	0.1620	0.32	1.00	5.10	322.0	15.0	281.2	2.0	0	0.00	97.	1010.	7	NAD-SFC	NoSubs
10	3	13	72	7	-29.2	0.540	-9.000	-9.000	-999.	952.	486.0	0.1620	0.32	0.60	6.20	327.0	15.0	281.2	2.0	0	0.00	99.	1010.	10	NAD-SFC	NoSubs
10	3	13	72	8	1.5	0.613	0.109	0.005	31.	1149.	-8888.0	0.1880	0.32	0.28	6.70	333.0	15.0	281.4	2.0	0	0.00	94.	1010.	10	NAD-SFC	NoSubs
10	3	13	72	9	40.1	0.606	0.681	0.005	283.	1132.	-499.4	0.1620	0.32	0.18	6.70	328.0	15.0	282.2	2.0	0	0.00	81.	1010.	7	NAD-SFC	NoSubs
10	3	13	72	10	75.3	0.592	1.001	0.005	479.	1094.	-247.9	0.1880	0.32	0.16	6.20	334.0	15.0	284.2	2.0	0	0.00	66.	1010.	4	NAD-SFC	NoSubs
10	3	13	72	11	95.0	0.578	1.191	0.005	640.	1057.	-183.4	0.1620	0.32	0.15	6.20	327.0	15.0	285.2	2.0	0	0.00	57.	1010.	3	NAD-SFC	NoSubs
10	3	13	72	12	104.0	0.580	1.345	0.005	844.	1061.	-169.3	0.1620	0.32	0.14	6.20	328.0	15.0	286.0	2.0	0	0.00	51.	1009.	4	NAD-SFC	NoSubs
10	3	13	72	13	105.2	0.540	1.424	0.006	988.	955.	-134.4	0.1620	0.32	0.14	5.70	329.0	15.0	286.6	2.0	0	0.00	48.	1008.	4	NAD-SFC	NoSubs
10	3	13	72	14	97.5	0.538	1.413	0.005	1040.	947.	-143.3	0.1620	0.32	0.15	5.70	327.0	15.0	287.0	2.0	0	0.00	46.	1007.	4	NAD-SFC	NoSubs
10	3	13	72	15	81.2	0.551	1.347	0.005	1081.	980.	-184.4	0.1880	0.32	0.15	5.70	333.0	15.0	287.2	2.0	0	0.00	46.	1006.	4	NAD-SFC	NoSubs
10	3	13	72	16	56.8	0.527	1.206	0.005	1109.	919.	-231.0	0.1620	0.32	0.17	5.70	328.0	15.0	287.2	2.0	0	0.00	45.	1006.	4	NAD-SFC	NoSubs
10	3	13	72	17	25.3	0.299	0.925	0.005	1121.	444.	-95.0	0.1620	0.32	0.24	3.10	318.0	15.0	287.0	2.0	0	0.00	52.	1006.	3	NAD-SFC	NoSubs
10	3	13	72	18	-18.2	0.306	-9.000	-9.000	-999.	406.	140.8	0.1620	0.32	0.48	3.60	322.0	15.0	286.2	2.0	0	0.00	55.	1006.	3	NAD-SFC	NoSubs
10	3	13	72	19	-27.4	0.258	-9.000	-9.000	-999.	316.	56.5	0.1620	0.32	1.00	3.10	312.0	15.0	285.4	2.0	0	0.00	55.	1007.	3	NAD-SFC	NoSubs

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10  3 13  72 20  -19.9  0.214 -9.000 -9.000 -999.  238.    44.2  0.1620  0.32  1.00  2.60  312.0  15.0  284.8  2.0   0  0.00   55.  1008.    3 NAD-SFC NoSubs
10  3 13  72 21   -3.3  0.092 -9.000 -9.000 -999.   78.    21.4  0.1620  0.32  1.00  1.00  305.0  15.0  284.0  2.0   0  0.00   57.  1008.    3 NAD-SFC NoSubs
10  3 13  72 22   -2.5  0.079 -9.000 -9.000 -999.   53.    18.1  0.0460  0.32  1.00  1.00  145.0  15.0  283.1  2.0   0  0.00   60.  1009.    3 NAD-SFC NoSubs
10  3 13  72 23  -12.7  0.158 -9.000 -9.000 -999.  151.    27.9  0.0380  0.32  1.00  2.60  153.0  15.0  282.0  2.0   0  0.00   66.  1009.    2 NAD-SFC NoSubs
10  3 13  72 24  -12.7  0.158 -9.000 -9.000 -999.  151.    27.9  0.0380  0.32  1.00  2.60  169.0  15.0  281.2  2.0   0  0.00   69.  1009.    2 NAD-SFC NoSubs
10  3 14  73  1  -12.4  0.155 -9.000 -9.000 -999.  146.    27.0  0.0340  0.32  1.00  2.60  210.0  15.0  280.8  2.0   0  0.00   68.  1009.    2 NAD-SFC NoSubs
10  3 14  73  2  -17.4  0.184 -9.000 -9.000 -999.  190.    32.4  0.0310  0.32  1.00  3.10  262.0  15.0  280.1  2.0   0  0.00   66.  1009.    2 NAD-SFC NoSubs
10  3 14  73  3  -22.7  0.219 -9.000 -9.000 -999.  246.    41.7  0.0780  0.32  1.00  3.10  274.0  15.0  279.1  2.0   0  0.00   67.  1009.    2 NAD-SFC NoSubs
10  3 14  73  4  -22.7  0.219 -9.000 -9.000 -999.  246.    41.6  0.0780  0.32  1.00  3.10  285.0  15.0  278.4  2.0   0  0.00   68.  1009.    2 NAD-SFC NoSubs
10  3 14  73  5  -28.8  0.257 -9.000 -9.000 -999.  312.    52.9  0.0780  0.32  1.00  3.60  271.0  15.0  277.8  2.0   0  0.00   67.  1010.    2 NAD-SFC NoSubs
10  3 14  73  6  -28.9  0.257 -9.000 -9.000 -999.  312.    52.8  0.0780  0.32  1.00  3.60  275.0  15.0  277.2  2.0   0  0.00   66.  1010.    2 NAD-SFC NoSubs
10  3 14  73  7  -21.8  0.220 -9.000 -9.000 -999.  248.    43.9  0.0780  0.32  0.59  3.10  276.0  15.0  277.1  2.0   0  0.00   65.  1011.    2 NAD-SFC NoSubs
10  3 14  73  8   15.7  0.293  0.313  0.009   70.  380.  -143.9  0.1620  0.32  0.27  3.10  321.0  15.0  279.2  2.0   0  0.00   53.  1012.    2 NAD-SFC NoSubs
10  3 14  73  9   49.1  0.181  0.629  0.009  182.  192.   -11.0  0.1620  0.32  0.18  1.50  324.0  15.0  281.2  2.0   0  0.00   48.  1012.    2 NAD-SFC NoSubs
10  3 14  73 10   76.4  0.146  0.867  0.009  308.  134.    -3.7  0.1620  0.32  0.16  1.00  302.0  15.0  283.0  2.0   0  0.00   44.  1012.    2 NAD-SFC NoSubs
10  3 14  73 11   95.6  0.195  1.037  0.009  421.  207.    -7.0  0.1620  0.32  0.15  1.50  301.0  15.0  284.8  2.0   0  0.00   41.  1012.    2 NAD-SFC NoSubs
10  3 14  73 12  106.0  0.172  1.156  0.008  526.  171.    -4.3  0.0780  0.32  0.14  1.50  298.0  15.0  286.0  2.0   0  0.00   39.  1011.    2 NAD-SFC NoSubs
10  3 14  73 13  107.3  0.249  1.223  0.008  614.  298.   -12.9  0.1620  0.32  0.14  2.10  313.0  15.0  287.1  2.0   0  0.00   38.  1010.    2 NAD-SFC NoSubs
10  3 14  73 14   99.5  0.247  1.239  0.008  688.  294.   -13.6  0.1620  0.32  0.15  2.10  322.0  15.0  288.0  2.0   0  0.00   38.  1009.    2 NAD-SFC NoSubs
10  3 14  73 15   82.7  0.291  1.197  0.007  746.  378.   -26.9  0.1880  0.32  0.15  2.60  332.0  15.0  288.8  2.0   0  0.00   37.  1009.    2 NAD-SFC NoSubs
10  3 14  73 16   57.5  0.283  1.078  0.007  784.  362.   -35.5  0.1880  0.32  0.17  2.60  340.0  15.0  289.0  2.0   0  0.00   36.  1008.    2 NAD-SFC NoSubs
10  3 14  73 17   25.5  0.226  0.827  0.007  799.  258.   -40.6  0.1880  0.32  0.24  2.10  336.0  15.0  288.9  2.0   0  0.00   41.  1009.    2 NAD-SFC NoSubs
10  3 14  73 18   -5.2  0.125 -9.000 -9.000 -999.  111.    34.0  0.1880  0.32  0.47  1.50  331.0  15.0  288.4  2.0   0  0.00   42.  1009.    2 NAD-SFC NoSubs
10  3 14  73 19   -3.4  0.093 -9.000 -9.000 -999.   68.    21.5  0.1620  0.32  1.00  1.00  321.0  15.0  287.2  2.0   0  0.00   45.  1010.    2 NAD-SFC NoSubs
10  3 14  73 20   -1.0  0.067 -9.000 -9.000 -999.   42.    26.7  0.0310  0.32  1.00  0.50  260.0  15.0  285.9  2.0   0  0.00   50.  1010.    2 NAD-SFC NoSubs
10  3 14  73 21   -2.4  0.077 -9.000 -9.000 -999.   51.    17.6  0.0340  0.32  1.00  1.00  218.0  15.0  284.5  2.0   0  0.00   56.  1011.    2 NAD-SFC NoSubs
10  3 14  73 22   -2.4  0.077 -9.000 -9.000 -999.   52.    17.6  0.0340  0.32  1.00  1.00  220.0  15.0  283.5  2.0   0  0.00   59.  1012.    2 NAD-SFC NoSubs
10  3 14  73 23   -1.0  0.067 -9.000 -9.000 -999.   42.    26.8  0.0310  0.32  1.00  0.50  257.0  15.0  282.9  2.0   0  0.00   59.  1012.    2 NAD-SFC NoSubs
10  3 14  73 24   -3.4  0.093 -9.000 -9.000 -999.   68.    21.5  0.1620  0.32  1.00  1.00  300.0  15.0  282.2  2.0   0  0.00   61.  1012.    2 NAD-SFC NoSubs
10  3 15  74  1   -5.2  0.105 -9.000 -9.000 -999.   81.    19.8  0.0780  0.32  1.00  1.50  292.0  15.0  281.5  2.0   0  0.00   63.  1012.    2 NAD-SFC NoSubs
10  3 15  74  2  -10.1  0.144 -9.000 -9.000 -999.  131.    26.6  0.0780  0.32  1.00  2.10  285.0  15.0  280.9  2.0   0  0.00   65.  1012.    2 NAD-SFC NoSubs
10  3 15  74  3  -12.1  0.152 -9.000 -9.000 -999.  143.    26.4  0.0310  0.32  1.00  2.60  268.0  15.0  280.2  2.0   0  0.00   65.  1012.    2 NAD-SFC NoSubs
10  3 15  74  4  -15.8  0.181 -9.000 -9.000 -999.  185.    34.0  0.0780  0.32  1.00  2.60  278.0  15.0  279.9  2.0   0  0.00   65.  1012.    2 NAD-SFC NoSubs
10  3 15  74  5  -15.8  0.181 -9.000 -9.000 -999.  185.    34.0  0.0780  0.32  1.00  2.60  274.0  15.0  279.4  2.0   0  0.00   65.  1012.    2 NAD-SFC NoSubs
10  3 15  74  6  -17.5  0.184 -9.000 -9.000 -999.  190.    32.3  0.0310  0.32  1.00  3.10  266.0  15.0  279.1  2.0   0  0.00   64.  1013.    2 NAD-SFC NoSubs
10  3 15  74  7  -21.5  0.220 -9.000 -9.000 -999.  248.    44.6  0.0780  0.32  0.57  3.10  273.0  15.0  278.8  2.0   0  0.00   64.  1013.    2 NAD-SFC NoSubs
10  3 15  74  8   16.7  0.293  0.322  0.009   72.  381.  -136.5  0.1620  0.32  0.27  3.10  306.0  15.0  280.6  2.0   0  0.00   56.  1014.    2 NAD-SFC NoSubs
10  3 15  74  9   50.1  0.231  0.625  0.010  176.  268.   -22.3  0.1620  0.32  0.18  2.10  313.0  15.0  282.5  2.0   0  0.00   51.  1014.    2 NAD-SFC NoSubs
10  3 15  74 10   77.5  0.146  0.850  0.010  286.  137.    -3.7  0.1620  0.32  0.15  1.00  304.0  15.0  285.1  2.0   0  0.00   44.  1014.    2 NAD-SFC NoSubs
10  3 15  74 11   96.8  0.099  1.011  0.009  386.   75.    -1.0  0.1620  0.32  0.15  0.50  322.0  15.0  287.1  2.0   0  0.00   39.  1013.    2 NAD-SFC NoSubs
10  3 15  74 12  107.2  0.204  1.140  0.009  499.  221.    -7.1  0.1880  0.32  0.14  1.50  336.0  15.0  288.8  2.0   0  0.00   37.  1012.    2 NAD-SFC NoSubs
10  3 15  74 13  108.6  0.204  1.213  0.009  593.  221.    -7.1  0.1880  0.32  0.14  1.50  346.0  15.0  290.4  2.0   0  0.00   35.  1012.    2 NAD-SFC NoSubs
10  3 15  74 14  100.9  0.255  1.232  0.009  669.  309.   -14.8  0.1900  0.32  0.15  2.10    2.0  15.0  291.8  2.0   0  0.00   33.  1011.    2 NAD-SFC NoSubs
10  3 15  74 15   84.1  0.292  1.189  0.009  722.  379.   -26.8  0.1900  0.32  0.15  2.60    6.0  15.0  292.4  2.0   0  0.00   33.  1011.    2 NAD-SFC NoSubs
10  3 15  74 16   58.9  0.326  1.073  0.009  756.  446.   -52.9  0.1900  0.32  0.17  3.10   10.0  15.0  292.5  2.0   0  0.00   34.  1011.    2 NAD-SFC NoSubs
10  3 15  74 17   26.6  0.310  0.829  0.009  770.  415.  -100.9  0.1900  0.32  0.24  3.10   25.0  15.0  291.9  2.0   0  0.00   42.  1011.    2 NAD-SFC NoSubs
10  3 15  74 18  -13.7  0.248 -9.000 -9.000 -999.  298.   100.6  0.1280  0.32  0.47  3.10   31.0  15.0  291.0  2.0   0  0.00   45.  1011.    2 NAD-SFC NoSubs
10  3 15  74 19  -11.8  0.160 -9.000 -9.000 -999.  157.    31.6  0.1280  0.32  1.00  2.10   44.0  15.0  289.8  2.0   0  0.00   48.  1012.    2 NAD-SFC NoSubs
10  3 15  74 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  288.4  2.0   0  0.00   53.  1012.    2 NAD-SFC NoSubs
10  3 15  74 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  287.0  2.0   0  0.00   59.  1012.    2 NAD-SFC NoSubs
10  3 15  74 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  285.9  2.0   0  0.00   65.  1012.    2 NAD-SFC NoSubs
10  3 15  74 23   -1.2  0.073 -9.000 -9.000 -999.   47.    29.0  0.0760  0.32  1.00  0.50   64.0  15.0  285.1  2.0   0  0.00   68.  1013.    2 NAD-SFC NoSubs
10  3 15  74 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  284.2  2.0   0  0.00   72.  1012.    2 NAD-SFC NoSubs
10  3 16  75  1   -1.2  0.073 -9.000 -9.000 -999.   47.    29.1  0.0760  0.32  1.00  0.50   61.0  15.0  283.6  2.0   0  0.00   74.  1012.    2 NAD-SFC NoSubs
10  3 16  75  2   -1.4  0.077 -9.000 -9.000 -999.   51.    30.5  0.1280  0.32  1.00  0.50   42.0  15.0  283.4  2.0   0  0.00   75.  1012.    2 NAD-SFC NoSubs
10  3 16  75  3   -1.5  0.081 -9.000 -9.000 -999.   55.    31.4  0.1900  0.32  1.00  0.50   21.0  15.0  283.2  2.0   0  0.00   74.  1012.    2 NAD-SFC NoSubs
10  3 16  75  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  283.2  2.0   0  0.00   74.  1012.    2 NAD-SFC NoSubs
10  3 16  75  5   -3.6  0.095 -9.000 -9.000 -999.   71.    22.0  0.1880  0.32  1.00  1.00  348.0  15.0  283.0  2.0   0  0.00   74.  1012.    2 NAD-SFC NoSubs
10  3 16  75  6   -3.6  0.095 -9.000 -9.000 -999.   71.    22.0  0.1880  0.32  1.00  1.00  351.0  15.0  282.8  2.0   0  0.00   74.  1013.    2 NAD-SFC NoSubs
10  3 16  75  7   -6.5  0.124 -9.000 -9.000 -999.  105.    26.8  0.1880  0.32  0.56  1.50  347.0  15.0  282.6  2.0   0  0.00   75.  1013.    2 NAD-SFC NoSubs
10  3 16  75  8   17.9  0.220  0.287  0.007   48.  247.   -53.5  0.1880  0.32  0.27  2.10  360.0  15.0  283.2  2.0   0  0.00   74.  1014.    2 NAD-SFC NoSubs
10  3 16  75  9   51.6  0.281  0.561  0.005  124.  357.   -38.7  0.1880  0.32  0.18  2.60  351.0  15.0  286.4  2.0   0  0.00   58.  1014.    2 NAD-SFC NoSubs
10  3 16  75 10   78.8  0.332  0.815  0.005  248.  459.   -41.9  0.1880  0.32  0.15  3.10  342.0  15.0  288.0  2.0   0  0.00   56.  1014.    2 NAD-SFC NoSubs
10  3 16  75 11   98.1  0.338  0.999  0.005  367.  471.   -35.4  0.1880  0.32  0.15  3.10  353.0  15.0  290.0  2.0   0  0.00   50.  1013.    2 NAD-SFC NoSubs
10  3 16  75 12  108.6  0.340  1.179  0.005  546.  477.   -32.8  0.1880  0.32  0.14  3.10  350.0  15.0  291.9  2.0   0  0.00   44.  1012.    2 NAD-SFC NoSubs
10  3 16  75 13  109.9  0.382  1.288  0.005  702.  567.   -45.8  0.1880  0.32  0.14  3.60  346.0  15.0  293.1  2.0   0  0.00   39.  1012.    2 NAD-SFC NoSubs
10  3 16  75 14  102.0  0.380  1.330  0.005  833.  562.   -48.5  0.1880  0.32  0.15  3.60  347.0  15.0  293.8  2.0   0  0.00   39.  1011.    2 NAD-SFC NoSubs
10  3 16  75 15   85.0  0.376  1.297  0.005  926.  553.   -56.3  0.1900  0.32  0.15  3.60    4.0  15.0  293.8  2.0   0  0.00   39.  1011.    2 NAD-SFC NoSubs
10  3 16  75 16   59.9 -9.000 -9.000 -9.000  997. -999. -99999.0  0.0879  0.32  0.17  0.00    0.0  15.0  294.2  2.0   0  0.00   48.  1010.    2 NAD-SFC NoSubs
10  3 16  75 17   27.6  0.353  0.925  0.005 1035.  503.   -143.7  0.1900  0.32  0.24  3.60    8.0  15.0  293.5  2.0   0  0.00   52.  1010.    2 NAD-SFC NoSubs
10  3 16  75 18  -15.9  0.320 -9.000 -9.000 -999.  434.    185.4  0.1900  0.32  0.46  3.60   11.0  15.0  292.8  2.0   0  0.00   53.  1011.    2 NAD-SFC NoSubs
10  3 16  75 19  -21.3  0.223 -9.000 -9.000 -999.  257.    46.7  0.1900  0.32  1.00  2.60    6.0  15.0  292.0  2.0   0  0.00   54.  1011.    2 NAD-SFC NoSubs
10  3 16  75 20   -6.9  0.125 -9.000 -9.000 -999.  110.    25.3  0.1880  0.32  1.00  1.50  336.0  15.0  291.4  2.0   0  0.00   55.  1010.    2 NAD-SFC NoSubs
10  3 16  75 21   -5.1  0.104 -9.000 -9.000 -999.   81.    19.9  0.0780  0.32  1.00  1.50  288.0  15.0  290.8  2.0   0  0.00   58.  1011.    2 NAD-SFC NoSubs
10  3 16  75 22   -6.5  0.120 -9.000 -9.000 -999.  100.    24.2  0.1620  0.32  1.00  1.50  301.0  15.0  290.1  2.0   0  0.00   61.  1011.    2 NAD-SFC NoSubs
10  3 16  75 23   -6.9  0.125 -9.000 -9.000 -999.  106.    25.3  0.1880  0.32  1.00  1.50  336.0  15.0  289.5  2.0   0  0.00   63.  1010.    2 NAD-SFC NoSubs
10  3 16  75 24   -3.5  0.095 -9.000 -9.000 -999.   70.    22.0  0.1900  0.32  1.00  1.00    6.0  15.0  288.9  2.0   0  0.00   66.  1010.    2 NAD-SFC NoSubs
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10  3 17  76  1   -3.5  0.095 -9.000 -9.000 -999.   70.     21.9  0.1880  0.32  1.00  1.00  357.0  15.0  288.5  2.0   0  0.00  67.  1010.   2 NAD-SFC NoSubs
10  3 17  76  2   -6.5  0.120 -9.000 -9.000 -999.  100.     24.1  0.1620  0.32  1.00  1.50  320.0  15.0  288.1  2.0   0  0.00  68.  1009.   2 NAD-SFC NoSubs
10  3 17  76  3  -12.9  0.170 -9.000 -9.000 -999.  168.     34.1  0.1620  0.32  1.00  2.10  307.0  15.0  287.8  2.0   0  0.00  69.  1009.   2 NAD-SFC NoSubs
10  3 17  76  4  -20.1  0.214 -9.000 -9.000 -999.  237.     43.7  0.1620  0.32  1.00  2.60  314.0  15.0  287.2  2.0   0  0.00  70.  1009.   2 NAD-SFC NoSubs
10  3 17  76  5  -20.1  0.214 -9.000 -9.000 -999.  237.     43.7  0.1620  0.32  1.00  2.60  312.0  15.0  286.9  2.0   0  0.00  71.  1009.   2 NAD-SFC NoSubs
10  3 17  76  6  -10.0  0.144 -9.000 -9.000 -999.  132.     26.9  0.0780  0.32  1.00  2.10  297.0  15.0  286.5  2.0   0  0.00  72.  1009.   2 NAD-SFC NoSubs
10  3 17  76  7   -4.6  0.103 -9.000 -9.000 -999.   79.     21.2  0.0780  0.32  0.55  1.50  296.0  15.0  286.1  2.0   0  0.00  72.  1009.   2 NAD-SFC NoSubs
10  3 17  76  8   19.2  0.166  0.360  0.009   87.  162.    -21.4  0.1620  0.32  0.26  1.50  309.0  15.0  286.4  2.0   0  0.00  72.  1009.   2 NAD-SFC NoSubs
10  3 17  76  9   52.7  0.232  0.628  0.007  169.  269.    -21.4  0.1620  0.32  0.18  2.10  319.0  15.0  287.9  2.0   0  0.00  64.  1009.   2 NAD-SFC NoSubs
10  3 17  76 10   80.0  0.147  0.847  0.007  274.  138.     -3.6  0.1620  0.32  0.15  1.00  314.0  15.0  289.8  2.0   0  0.00  58.  1009.   2 NAD-SFC NoSubs
10  3 17  76 11   99.3  0.151  1.018  0.006  382.  140.     -3.1  0.1620  0.32  0.15  1.00  314.0  15.0  291.9  2.0   0  0.00  48.  1008.   2 NAD-SFC NoSubs
10  3 17  76 12  109.7  0.198  1.188  0.006  549.  212.     -6.4  0.1620  0.32  0.14  1.50  306.0  15.0  293.4  2.0   0  0.00  42.  1007.   2 NAD-SFC NoSubs
10  3 17  76 13  110.9  0.250  1.280  0.005  679.  299.    -12.6  0.1620  0.32  0.14  2.10  318.0  15.0  294.5  2.0   0  0.00  40.  1006.   2 NAD-SFC NoSubs
10  3 17  76 14  103.1  0.255  1.304  0.005  771.  310.    -14.5  0.1880  0.32  0.15  2.10  335.0  15.0  295.5  2.0   0  0.00  37.  1005.   2 NAD-SFC NoSubs
10  3 17  76 15   86.2  0.293  1.264  0.005  840.  380.    -26.0  0.1880  0.32  0.15  2.60  341.0  15.0  295.9  2.0   0  0.00  37.  1004.   2 NAD-SFC NoSubs
10  3 17  76 16   60.8  0.367  1.146  0.005  884.  534.    -72.8  0.1880  0.32  0.17  3.60  352.0  15.0  295.8  2.0   0  0.00  39.  1003.   2 NAD-SFC NoSubs
10  3 17  76 17   28.5  0.311  0.896  0.005  903.  419.    -94.7  0.1900  0.32  0.24  3.10    1.0  15.0  295.0  2.0   0  0.00  50.  1003.   2 NAD-SFC NoSubs
10  3 17  76 18   10.8 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  0.45  0.00    0.0  15.0  294.1  2.0   0  0.00  53.  1003.   2 NAD-SFC NoSubs
10  3 17  76 19   -6.8  0.125 -9.000 -9.000 -999.  105.     25.4  0.1880  0.32  1.00  1.50  348.0  15.0  293.2  2.0   0  0.00  55.  1003.   2 NAD-SFC NoSubs
10  3 17  76 20   -5.1  0.104 -9.000 -9.000 -999.   81.     20.0  0.0780  0.32  1.00  1.50  290.0  15.0  292.1  2.0   0  0.00  59.  1003.   2 NAD-SFC NoSubs
10  3 17  76 21   -9.8  0.144 -9.000 -9.000 -999.  131.     27.2  0.0780  0.32  1.00  2.10  277.0  15.0  291.1  2.0   0  0.00  62.  1003.   2 NAD-SFC NoSubs
10  3 17  76 22  -22.2  0.219 -9.000 -9.000 -999.  247.     42.6  0.0780  0.32  1.00  3.10  291.0  15.0  290.2  2.0   0  0.00  65.  1003.   2 NAD-SFC NoSubs
10  3 17  76 23  -22.2  0.219 -9.000 -9.000 -999.  246.     42.5  0.0780  0.32  1.00  3.10  298.0  15.0  289.2  2.0   0  0.00  68.  1003.   2 NAD-SFC NoSubs
10  3 17  76 24  -19.9  0.214 -9.000 -9.000 -999.  237.     43.9  0.1620  0.32  1.00  2.60  308.0  15.0  288.4  2.0   0  0.00  71.  1003.   2 NAD-SFC NoSubs
10  3 18  77  1  -12.8  0.170 -9.000 -9.000 -999.  168.     34.1  0.1620  0.32  1.00  2.10  317.0  15.0  287.8  2.0   0  0.00  72.  1003.   2 NAD-SFC NoSubs
10  3 18  77  2   -6.9  0.125 -9.000 -9.000 -999.  106.     25.2  0.1880  0.32  1.00  1.50  332.0  15.0  287.2  2.0   0  0.00  73.  1003.   2 NAD-SFC NoSubs
10  3 18  77  3   -3.3  0.093 -9.000 -9.000 -999.   68.     21.5  0.1620  0.32  1.00  1.00  315.0  15.0  286.8  2.0   0  0.00  75.  1003.   2 NAD-SFC NoSubs
10  3 18  77  4   -2.8  0.084 -9.000 -9.000 -999.   59.     19.4  0.0780  0.32  1.00  1.00  281.0  15.0  286.2  2.0   0  0.00  77.  1003.   2 NAD-SFC NoSubs
10  3 18  77  5   -2.8  0.084 -9.000 -9.000 -999.   59.     19.4  0.0780  0.32  1.00  1.00  278.0  15.0  285.8  2.0   0  0.00  79.  1004.   2 NAD-SFC NoSubs
10  3 18  77  6   -2.8  0.084 -9.000 -9.000 -999.   59.     19.4  0.0780  0.32  1.00  1.00  284.0  15.0  285.6  2.0   0  0.00  80.  1004.   2 NAD-SFC NoSubs
10  3 18  77  7   -1.0  0.066 -9.000 -9.000 -999.   41.     26.9  0.0780  0.32  0.54  0.50  283.0  15.0  285.5  2.0   0  0.00  79.  1004.   2 NAD-SFC NoSubs
10  3 18  77  8   20.1  0.129  0.367  0.010   87.  111.     -9.6  0.1880  0.32  0.26  1.00  334.0  15.0  286.4  2.0   0  0.00  73.  1004.   2 NAD-SFC NoSubs
10  3 18  77  9   53.7  0.189  0.654  0.008  186.  197.    -11.2  0.1880  0.32  0.18  1.50  353.0  15.0  288.4  2.0   0  0.00  61.  1004.   2 NAD-SFC NoSubs
10  3 18  77 10   80.9  0.152  0.878  0.007  299.  142.     -3.9  0.1880  0.32  0.15  1.00  339.0  15.0  290.2  2.0   0  0.00  53.  1004.   2 NAD-SFC NoSubs
10  3 18  77 11  100.0  0.151  1.048  0.007  412.  141.     -3.1  0.1620  0.32  0.15  1.00  323.0  15.0  291.8  2.0   0  0.00  48.  1003.   2 NAD-SFC NoSubs
10  3 18  77 12  110.3  0.153  1.212  0.007  577.  143.     -2.9  0.1620  0.32  0.14  1.00  320.0  15.0  293.0  2.0   0  0.00  45.  1002.   2 NAD-SFC NoSubs
10  3 18  77 13  111.5  0.199  1.294  0.007  695.  213.     -6.3  0.1620  0.32  0.14  1.50  323.0  15.0  294.1  2.0   0  0.00  41.  1002.   2 NAD-SFC NoSubs
10  3 18  77 14  103.6  0.297  1.311  0.007  777.  389.    -22.7  0.1880  0.32  0.15  2.60  331.0  15.0  294.9  2.0   0  0.00  39.  1001.   2 NAD-SFC NoSubs
10  3 18  77 15   86.6  0.335  1.267  0.007  839.  464.    -38.6  0.1880  0.32  0.15  3.10  335.0  15.0  295.2  2.0   0  0.00  39.  1001.   2 NAD-SFC NoSubs
10  3 18  77 16   61.3  0.368  1.148  0.006  881.  534.    -72.2  0.1880  0.32  0.17  3.60  344.0  15.0  295.2  2.0   0  0.00  40.  1000.   2 NAD-SFC NoSubs
10  3 18  77 17   29.1  0.269  0.902  0.006  899.  341.    -59.9  0.1880  0.32  0.23  2.60  330.0  15.0  295.1  2.0   0  0.00  47.  1000.   2 NAD-SFC NoSubs
10  3 18  77 18   -7.0  0.176 -9.000 -9.000 -999.  181.     69.4  0.1620  0.32  0.45  2.10  307.0  15.0  294.6  2.0   0  0.00  47.  1001.   2 NAD-SFC NoSubs
10  3 18  77 19  -19.7  0.214 -9.000 -9.000 -999.  238.     44.3  0.1620  0.32  1.00  2.60  303.0  15.0  293.5  2.0   0  0.00  48.  1001.   2 NAD-SFC NoSubs
10  3 18  77 20  -15.3  0.181 -9.000 -9.000 -999.  186.     34.9  0.0780  0.32  1.00  2.60  287.0  15.0  292.5  2.0   0  0.00  49.  1002.   2 NAD-SFC NoSubs
10  3 18  77 21  -15.3  0.181 -9.000 -9.000 -999.  185.     34.8  0.0780  0.32  1.00  2.60  279.0  15.0  291.5  2.0   0  0.00  50.  1002.   2 NAD-SFC NoSubs
10  3 18  77 22   -4.0  0.091 -9.000 -9.000 -999.   69.     16.5  0.0310  0.32  1.00  1.50  262.0  15.0  290.2  2.0   0  0.00  53.  1003.   2 NAD-SFC NoSubs
10  3 18  77 23   -4.1  0.092 -9.000 -9.000 -999.   67.     16.7  0.0340  0.32  1.00  1.50  234.0  15.0  289.2  2.0   0  0.00  56.  1003.   2 NAD-SFC NoSubs
10  3 18  77 24   -7.8  0.123 -9.000 -9.000 -999.  103.     21.4  0.0330  0.32  1.00  2.10  188.0  15.0  287.8  2.0   0  0.00  62.  1003.   2 NAD-SFC NoSubs
10  3 19  78  1   -4.2  0.092 -9.000 -9.000 -999.   67.     16.7  0.0340  0.32  1.00  1.50  215.0  15.0  286.8  2.0   0  0.00  68.  1004.   2 NAD-SFC NoSubs
10  3 19  78  2   -4.1  0.091 -9.000 -9.000 -999.   66.     16.4  0.0310  0.32  1.00  1.50  262.0  15.0  285.8  2.0   0  0.00  74.  1004.   2 NAD-SFC NoSubs
10  3 19  78  3   -9.9  0.144 -9.000 -9.000 -999.  131.     26.8  0.0780  0.32  1.00  2.10  277.0  15.0  285.2  2.0   0  0.00  75.  1004.   2 NAD-SFC NoSubs
10  3 19  78  4  -15.5  0.181 -9.000 -9.000 -999.  185.     34.3  0.0780  0.32  1.00  2.60  273.0  15.0  284.5  2.0   0  0.00  73.  1005.   2 NAD-SFC NoSubs
10  3 19  78  5  -22.4  0.219 -9.000 -9.000 -999.  246.     42.1  0.0780  0.32  1.00  3.10  270.0  15.0  283.8  2.0   0  0.00  69.  1005.   2 NAD-SFC NoSubs
10  3 19  78  6  -23.6  0.217 -9.000 -9.000 -999.  242.     38.7  0.0310  0.32  1.00  3.60  258.0  15.0  283.1  2.0   0  0.00  66.  1006.   2 NAD-SFC NoSubs
10  3 19  78  7  -18.8  0.221 -9.000 -9.000 -999.  249.     51.6  0.0780  0.32  0.52  3.10  272.0  15.0  283.0  2.0   0  0.00  62.  1007.   2 NAD-SFC NoSubs
10  3 19  78  8   20.8  0.297  0.353  0.007   76.  387.   -112.5  0.1620  0.32  0.26  3.10  315.0  15.0  284.9  2.0   0  0.00  49.  1007.   2 NAD-SFC NoSubs
10  3 19  78  9   54.3  0.160  0.638  0.011  172.  166.     -6.8  0.0780  0.32  0.18  1.50  287.0  15.0  286.8  2.0   0  0.00  43.  1008.   2 NAD-SFC NoSubs
10  3 19  78 10   81.6  0.071  0.857  0.009  277.   51.     -1.0  0.0310  0.32  0.15  0.50  262.0  15.0  289.2  2.0   0  0.00  37.  1008.   2 NAD-SFC NoSubs
10  3 19  78 11  100.7  0.112  1.016  0.007  374.   90.     -1.2  0.0310  0.32  0.15  1.00  252.0  15.0  291.1  2.0   0  0.00  34.  1008.   2 NAD-SFC NoSubs
10  3 19  78 12  110.9  0.113  1.151  0.006  494.   91.     -1.2  0.0310  0.32  0.14  1.00  249.0  15.0  292.6  2.0   0  0.00  32.  1007.   2 NAD-SFC NoSubs
10  3 19  78 13  112.1  0.087  1.232  0.005  598.   62.     -1.0  0.0780  0.32  0.14  0.50  274.0  15.0  293.8  2.0   0  0.00  30.  1006.   2 NAD-SFC NoSubs
10  3 19  78 14  104.2  0.086  1.266  0.005  699.   61.     -1.0  0.0780  0.32  0.14  0.50  290.0  15.0  294.8  2.0   0  0.00  29.  1006.   2 NAD-SFC NoSubs
10  3 19  78 15   87.3  0.097  1.250  0.005  804.   73.     -1.0  0.1620  0.32  0.15  0.50  318.0  15.0  295.4  2.0   0  0.00  28.  1006.   2 NAD-SFC NoSubs
10  3 19  78 16   62.0  0.147  1.146  0.005  871.  135.     -4.6  0.1880  0.32  0.17  1.00  333.0  15.0  295.8  2.0   0  0.00  27.  1005.   2 NAD-SFC NoSubs
10  3 19  78 17   29.7  0.179  0.907  0.005  901.  181.    -17.2  0.1900  0.32  0.23  1.50    2.0  15.0  295.5  2.0   0  0.00  31.  1005.   2 NAD-SFC NoSubs
10  3 19  78 18   -1.8  0.083 -9.000 -9.000 -999.   62.     28.7  0.1900  0.32  0.44  1.00   11.0  15.0  294.5  2.0   0  0.00  35.  1006.   2 NAD-SFC NoSubs
10  3 19  78 19   -1.3  0.076 -9.000 -9.000 -999.   50.     30.1  0.1280  0.32  1.00  0.50   34.0  15.0  292.9  2.0   0  0.00  41.  1006.   2 NAD-SFC NoSubs
10  3 19  78 20   -1.0  0.068 -9.000 -9.000 -999.   42.     27.1  0.0380  0.32  1.00  0.50  173.0  15.0  291.2  2.0   0  0.00  48.  1006.   2 NAD-SFC NoSubs
10  3 19  78 21   -2.4  0.078 -9.000 -9.000 -999.   52.     17.7  0.0380  0.32  1.00  1.00  158.0  15.0  289.8  2.0   0  0.00  54.  1007.   2 NAD-SFC NoSubs
10  3 19  78 22   -4.5  0.096 -9.000 -9.000 -999.   71.     17.7  0.0460  0.32  1.00  1.50  141.0  15.0  288.8  2.0   0  0.00  57.  1007.   2 NAD-SFC NoSubs
10  3 19  78 23   -8.5  0.130 -9.000 -9.000 -999.  113.     23.3  0.0460  0.32  1.00  2.10  121.0  15.0  287.9  2.0   0  0.00  59.  1008.   2 NAD-SFC NoSubs
10  3 19  78 24  -13.7  0.167 -9.000 -9.000 -999.  163.     30.5  0.0510  0.32  1.00  2.60  118.0  15.0  287.2  2.0   0  0.00  60.  1008.   2 NAD-SFC NoSubs
10  3 20  79  1  -25.2  0.232 -9.000 -9.000 -999.  269.     44.7  0.0460  0.32  1.00  3.60  134.0  15.0  286.8  2.0   0  0.00  59.  1008.   2 NAD-SFC NoSubs
10  3 20  79  2  -19.1  0.198 -9.000 -9.000 -999.  212.     36.4  0.0460  0.32  1.00  3.10  148.0  15.0  286.8  2.0   0  0.00  54.  1008.   2 NAD-SFC NoSubs
10  3 20  79  3   -4.2  0.092 -9.000 -9.000 -999.   73.     16.6  0.0330  0.32  1.00  1.50  182.0  15.0  286.5  2.0   0  0.00  52.  1008.   2 NAD-SFC NoSubs
10  3 20  79  4   -1.0  0.067 -9.000 -9.000 -999.   42.     26.7  0.0310  0.32  1.00  0.50  241.0  15.0  285.8  2.0   0  0.00  53.  1009.   2 NAD-SFC NoSubs
10  3 20  79  5   -3.4  0.093 -9.000 -9.000 -999.   68.     21.5  0.1620  0.32  1.00  1.00  313.0  15.0  284.9  2.0   0  0.00  58.  1009.   2 NAD-SFC NoSubs
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10  3 20  79  6   -7.0  0.125 -9.000 -9.000 -999.  106.     25.1  0.1880  0.32  1.00  1.50  337.0  15.0  284.1  2.0  0  0.00  64.  1010.  2 NAD-SFC NoSubs
10  3 20  79  7   -6.0  0.124 -9.000 -9.000 -999.  105.     28.9  0.1880  0.32  0.51  1.50  345.0  15.0  283.8  2.0  0  0.00  67.  1011.  2 NAD-SFC NoSubs
10  3 20  79  8   21.7  0.173  0.328  0.006   58.   172.    -21.4  0.1880  0.32  0.25  1.50  332.0  15.0  284.8  2.0  0  0.00  63.  1011.  2 NAD-SFC NoSubs
10  3 20  79  9   55.2  0.184  0.611  0.006  149.   189.    -10.1  0.1620  0.32  0.18  1.50  326.0  15.0  286.9  2.0  0  0.00  53.  1012.  2 NAD-SFC NoSubs
10  3 20  79 10   82.3  0.147  0.877  0.005  296.   136.     -3.5  0.1620  0.32  0.15  1.00  324.0  15.0  288.8  2.0  0  0.00  48.  1012.  2 NAD-SFC NoSubs
10  3 20  79 11  101.4  0.151  1.109  0.005  486.   141.     -3.1  0.1620  0.32  0.15  1.00  308.0  15.0  290.8  2.0  0  0.00  40.  1012.  2 NAD-SFC NoSubs
10  3 20  79 12  111.6  0.153  1.281  0.006  680.   143.     -2.9  0.1620  0.32  0.14  1.00  316.0  15.0  292.2  2.0  0  0.00  32.  1011.  2 NAD-SFC NoSubs
10  3 20  79 13  112.6  0.158  1.354  0.006  794.   151.     -3.2  0.1880  0.32  0.14  1.00  337.0  15.0  293.2  2.0  0  0.00  31.  1010.  2 NAD-SFC NoSubs
10  3 20  79 14  104.6  0.156  1.370  0.005  887.   148.     -3.3  0.1880  0.32  0.14  1.00  354.0  15.0  294.0  2.0  0  0.00  30.  1010.  2 NAD-SFC NoSubs
10  3 20  79 15   87.6 -9.000 -9.000 -9.000  958.  -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0  294.4  2.0  0  0.00  31.  1010.  2 NAD-SFC NoSubs
10  3 20  79 16   62.2  0.243  1.202  0.005 1006.   288.    -20.8  0.1900  0.32  0.17  2.10    6.0  15.0  294.2  2.0  0  0.00  34.  1009.  2 NAD-SFC NoSubs
10  3 20  79 17   29.8  0.229  0.948  0.005 1027.   263.    -36.2  0.1900  0.32  0.23  2.10    8.0  15.0  293.8  2.0  0  0.00  40.  1009.  2 NAD-SFC NoSubs
10  3 20  79 18   -4.1  0.128 -9.000 -9.000 -999.   115.     46.4  0.1900  0.32  0.44  1.50    9.0  15.0  292.9  2.0  0  0.00  43.  1010.  2 NAD-SFC NoSubs
10  3 20  79 19   -1.4  0.078 -9.000 -9.000 -999.    53.     30.7  0.1620  0.32  1.00  0.50  306.0  15.0  291.6  2.0  0  0.00  48.  1010.  2 NAD-SFC NoSubs
10  3 20  79 20   -1.2  0.073 -9.000 -9.000 -999.    47.     28.9  0.0780  0.32  1.00  0.50  279.0  15.0  290.2  2.0  0  0.00  54.  1010.  2 NAD-SFC NoSubs
10  3 20  79 21   -1.4  0.079 -9.000 -9.000 -999.    53.     30.8  0.1620  0.32  1.00  0.50  301.0  15.0  289.2  2.0  0  0.00  58.  1010.  2 NAD-SFC NoSubs
10  3 20  79 22   -3.4  0.093 -9.000 -9.000 -999.    68.     21.4  0.1620  0.32  1.00  1.00  308.0  15.0  288.2  2.0  0  0.00  61.  1011.  2 NAD-SFC NoSubs
10  3 20  79 23   -6.5  0.120 -9.000 -9.000 -999.   100.     24.1  0.1620  0.32  1.00  1.50  316.0  15.0  287.4  2.0  0  0.00  62.  1011.  2 NAD-SFC NoSubs
10  3 20  79 24   -6.9  0.125 -9.000 -9.000 -999.   106.     25.2  0.1880  0.32  1.00  1.50  333.0  15.0  286.6  2.0  0  0.00  63.  1011.  2 NAD-SFC NoSubs
10  3 21  80  1   -3.5  0.095 -9.000 -9.000 -999.    71.     22.0  0.1900  0.32  1.00  1.00    3.0  15.0  285.9  2.0  0  0.00  63.  1011.  2 NAD-SFC NoSubs
10  3 21  80  2   -3.5  0.095 -9.000 -9.000 -999.    71.     22.0  0.1900  0.32  1.00  1.00    8.0  15.0  285.2  2.0  0  0.00  64.  1010.  2 NAD-SFC NoSubs
10  3 21  80  3   -1.5  0.081 -9.000 -9.000 -999.    55.     31.4  0.1900  0.32  1.00  0.50    7.0  15.0  284.8  2.0  0  0.00  66.  1010.  2 NAD-SFC NoSubs
10  3 21  80  4   -1.4  0.079 -9.000 -9.000 -999.    53.     31.0  0.1620  0.32  1.00  0.50  329.0  15.0  284.1  2.0  0  0.00  67.  1010.  2 NAD-SFC NoSubs
10  3 21  80  5   -1.4  0.079 -9.000 -9.000 -999.    54.     31.0  0.1620  0.32  1.00  0.50  307.0  15.0  283.6  2.0  0  0.00  68.  1010.  2 NAD-SFC NoSubs
10  3 21  80  6   -1.4  0.079 -9.000 -9.000 -999.    54.     31.1  0.1620  0.32  1.00  0.50  316.0  15.0  283.2  2.0  0  0.00  69.  1010.  2 NAD-SFC NoSubs
10  3 21  80  7   -1.1  0.069 -9.000 -9.000 -999.    43.     27.7  0.1620  0.32  0.50  0.50  329.0  15.0  282.9  2.0  0  0.00  70.  1010.  2 NAD-SFC NoSubs
10  3 21  80  8   22.5  0.127  0.351  0.011   69.   108.     -8.2  0.1620  0.32  0.25  1.00  326.0  15.0  284.1  2.0  0  0.00  64.  1010.  2 NAD-SFC NoSubs
10  3 21  80  9   56.0  0.184  0.630  0.009  161.   189.    -10.0  0.1620  0.32  0.17  1.50  320.0  15.0  286.2  2.0  0  0.00  57.  1010.  2 NAD-SFC NoSubs
10  3 21  80 10   83.0  0.147  0.858  0.008  274.   136.     -3.5  0.1620  0.32  0.15  1.00  314.0  15.0  288.2  2.0  0  0.00  52.  1010.  2 NAD-SFC NoSubs
10  3 21  80 11  102.0  0.151  1.030  0.006  386.   141.     -3.0  0.1620  0.32  0.15  1.00  316.0  15.0  290.2  2.0  0  0.00  48.  1010.  2 NAD-SFC NoSubs
10  3 21  80 12  112.3  0.153  1.189  0.006  540.   144.     -2.9  0.1620  0.32  0.14  1.00  316.0  15.0  292.1  2.0  0  0.00  40.  1009.  2 NAD-SFC NoSubs
10  3 21  80 13  113.3  0.199  1.278  0.006  663.   213.     -6.3  0.1620  0.32  0.14  1.50  324.0  15.0  293.1  2.0  0  0.00  38.  1008.  2 NAD-SFC NoSubs
10  3 21  80 14  105.2  0.248  1.306  0.006  762.   297.    -13.1  0.1620  0.32  0.14  2.10  329.0  15.0  293.8  2.0  0  0.00  36.  1008.  2 NAD-SFC NoSubs
10  3 21  80 15   88.1  0.251  1.270  0.007  836.   302.    -16.2  0.1880  0.32  0.15  2.10  336.0  15.0  293.9  2.0  0  0.00  36.  1007.  2 NAD-SFC NoSubs
10  3 21  80 16   62.7  0.285  1.156  0.006  885.   365.    -33.2  0.1880  0.32  0.17  2.60  336.0  15.0  293.9  2.0  0  0.00  46.  1007.  2 NAD-SFC NoSubs
10  3 21  80 17   30.3  0.270  0.915  0.006  907.   337.    -58.2  0.1880  0.32  0.23  2.60  348.0  15.0  293.4  2.0  0  0.00  51.  1007.  2 NAD-SFC NoSubs
10  3 21  80 18   -7.5  0.230 -9.000 -9.000 -999.   265.    144.3  0.1900  0.32  0.43  2.60    2.0  15.0  292.6  2.0  0  0.00  54.  1007.  2 NAD-SFC NoSubs
10  3 21  80 19   -6.8  0.125 -9.000 -9.000 -999.   111.     25.3  0.1880  0.32  1.00  1.50  336.0  15.0  291.8  2.0  0  0.00  56.  1007.  2 NAD-SFC NoSubs
10  3 21  80 20   -2.7  0.084 -9.000 -9.000 -999.    59.     19.4  0.0780  0.32  1.00  1.00  289.0  15.0  290.9  2.0  0  0.00  59.  1007.  2 NAD-SFC NoSubs
10  3 21  80 21   -5.1  0.104 -9.000 -9.000 -999.    81.     19.9  0.0780  0.32  1.00  1.50  275.0  15.0  290.2  2.0  0  0.00  61.  1007.  2 NAD-SFC NoSubs
10  3 21  80 22  -22.3  0.219 -9.000 -9.000 -999.   247.     42.6  0.0780  0.32  1.00  3.10  292.0  15.0  289.6  2.0  0  0.00  62.  1008.  2 NAD-SFC NoSubs
10  3 21  80 23  -32.6  0.302 -9.000 -9.000 -999.   399.     76.2  0.1620  0.32  1.00  3.60  301.0  15.0  288.6  2.0  0  0.00  64.  1008.  2 NAD-SFC NoSubs
10  3 21  80 24  -32.7  0.302 -9.000 -9.000 -999.   399.     75.9  0.1620  0.32  1.00  3.60  312.0  15.0  287.6  2.0  0  0.00  68.  1008.  2 NAD-SFC NoSubs
10  3 22  81  1  -32.7  0.302 -9.000 -9.000 -999.   399.     75.7  0.1620  0.32  1.00  3.60  312.0  15.0  287.0  2.0  0  0.00  71.  1007.  2 NAD-SFC NoSubs
10  3 22  81  2  -32.8  0.302 -9.000 -9.000 -999.   399.     75.6  0.1620  0.32  1.00  3.60  325.0  15.0  286.4  2.0  0  0.00  74.  1007.  2 NAD-SFC NoSubs
10  3 22  81  3  -28.1  0.258 -9.000 -9.000 -999.   315.     55.0  0.1620  0.32  1.00  3.10  323.0  15.0  285.8  2.0  0  0.00  78.  1007.  2 NAD-SFC NoSubs
10  3 22  81  4  -28.1  0.258 -9.000 -9.000 -999.   315.     54.9  0.1620  0.32  1.00  3.10  315.0  15.0  285.2  2.0  0  0.00  83.  1007.  2 NAD-SFC NoSubs
10  3 22  81  5  -20.1  0.214 -9.000 -9.000 -999.   238.     43.6  0.1620  0.32  1.00  2.60  309.0  15.0  285.0  2.0  0  0.00  87.  1007.  2 NAD-SFC NoSubs
10  3 22  81  6  -12.9  0.170 -9.000 -9.000 -999.   168.     33.9  0.1620  0.32  1.00  2.10  303.0  15.0  284.8  2.0  0  0.00  90.  1007.  2 NAD-SFC NoSubs
10  3 22  81  7   -8.3  0.146 -9.000 -9.000 -999.   134.     33.9  0.0780  0.32  0.49  2.10  296.0  15.0  284.5  2.0  0  0.00  92.  1007.  2 NAD-SFC NoSubs
10  3 22  81  8   23.5  0.307  0.442  0.006  131.   409.   -111.0  0.1880  0.32  0.25  3.10  336.0  15.0  284.9  2.0  0  0.00  90.  1007.  2 NAD-SFC NoSubs
10  3 22  81  9   56.8  0.241  0.724  0.008  240.   286.    -22.1  0.1880  0.32  0.17  2.10  355.0  15.0  286.1  2.0  0  0.00  82.  1007.  2 NAD-SFC NoSubs
10  3 22  81 10   83.8  0.097  0.912  0.007  326.    91.     -1.0  0.1620  0.32  0.15  0.50  316.0  15.0  287.8  2.0  0  0.00  71.  1007.  2 NAD-SFC NoSubs
10  3 22  81 11  102.6  0.086  1.067  0.005  425.    61.     -1.0  0.0780  0.32  0.14  0.50  281.0  15.0  289.2  2.0  0  0.00  64.  1006.  2 NAD-SFC NoSubs
10  3 22  81 12  112.6  0.087  1.211  0.005  566.    62.     -1.0  0.0780  0.32  0.14  0.50  296.0  15.0  290.5  2.0  0  0.00  58.  1005.  2 NAD-SFC NoSubs
10  3 22  81 13  113.6  0.199  1.299  0.005  691.   213.     -6.2  0.1620  0.32  0.14  1.50  313.0  15.0  291.6  2.0  0  0.00  53.  1004.  2 NAD-SFC NoSubs
10  3 22  81 14  105.5  0.248  1.346  0.005  828.   297.    -13.0  0.1620  0.32  0.14  2.10  316.0  15.0  292.2  2.0  0  0.00  51.  1003.  2 NAD-SFC NoSubs
10  3 22  81 15   88.4  0.325  1.317  0.005  926.   445.    -34.8  0.1620  0.32  0.15  3.10  322.0  15.0  292.5  2.0  0  0.00  50.  1003.  2 NAD-SFC NoSubs
10  3 22  81 16   62.9  0.277  1.202  0.006  987.   351.    -30.2  0.1620  0.32  0.17  2.60  320.0  15.0  292.4  2.0  0  0.00  53.  1002.  2 NAD-SFC NoSubs
10  3 22  81 17   30.6  0.151  0.953  0.006 1012.   151.    -10.1  0.0780  0.32  0.23  1.50  298.0  15.0  292.2  2.0  0  0.00  57.  1002.  2 NAD-SFC NoSubs
10  3 22  81 18   -2.8  0.105 -9.000 -9.000 -999.    82.     37.9  0.0780  0.32  0.43  1.50  284.0  15.0  291.8  2.0  0  0.00  59.  1002.  2 NAD-SFC NoSubs
10  3 22  81 19   -9.8  0.144 -9.000 -9.000 -999.   131.     27.1  0.0780  0.32  1.00  2.10  288.0  15.0  290.8  2.0  0  0.00  62.  1002.  2 NAD-SFC NoSubs
10  3 22  81 20  -15.2  0.182 -9.000 -9.000 -999.   186.     35.2  0.0780  0.32  1.00  2.60  297.0  15.0  289.8  2.0  0  0.00  65.  1002.  3 NAD-SFC NoSubs
10  3 22  81 21  -12.6  0.170 -9.000 -9.000 -999.   168.     34.7  0.1620  0.32  1.00  2.10  313.0  15.0  288.5  2.0  0  0.00  68.  1003.  3 NAD-SFC NoSubs
10  3 22  81 22   -6.4  0.120 -9.000 -9.000 -999.   101.     24.3  0.1620  0.32  1.00  1.50  320.0  15.0  287.6  2.0  0  0.00  69.  1003.  3 NAD-SFC NoSubs
10  3 22  81 23   -3.3  0.092 -9.000 -9.000 -999.    67.     21.4  0.1620  0.32  1.00  1.00  319.0  15.0  286.8  2.0  0  0.00  69.  1003.  3 NAD-SFC NoSubs
10  3 22  81 24   -1.2  0.073 -9.000 -9.000 -999.    47.     29.1  0.0780  0.32  1.00  0.50  283.0  15.0  285.9  2.0  0  0.00  71.  1003.  2 NAD-SFC NoSubs
10  3 23  82  1   -2.3  0.077 -9.000 -9.000 -999.    51.     17.6  0.0340  0.32  1.00  1.00  231.0  15.0  285.2  2.0  0  0.00  71.  1003.  2 NAD-SFC NoSubs
10  3 23  82  2   -7.9  0.123 -9.000 -9.000 -999.   104.     21.4  0.0340  0.32  1.00  2.10  235.0  15.0  284.8  2.0  0  0.00  70.  1003.  2 NAD-SFC NoSubs
10  3 23  82  3  -17.6  0.188 -9.000 -9.000 -999.   195.     33.5  0.0340  0.32  1.00  3.10  226.0  15.0  284.2  2.0  0  0.00  69.  1003.  2 NAD-SFC NoSubs
10  3 23  82  4  -24.0  0.220 -9.000 -9.000 -999.   248.     39.7  0.0340  0.32  1.00  3.60  238.0  15.0  283.5  2.0  0  0.00  68.  1003.  2 NAD-SFC NoSubs
10  3 23  82  5  -27.2  0.249 -9.000 -9.000 -999.   298.     50.5  0.0310  0.32  1.00  4.10  256.0  15.0  282.8  2.0  0  0.00  69.  1004.  2 NAD-SFC NoSubs
10  3 23  82  6  -23.6  0.217 -9.000 -9.000 -999.   242.     38.6  0.0310  0.32  1.00  3.60  246.0  15.0  282.0  2.0  0  0.00  70.  1005.  2 NAD-SFC NoSubs
10  3 23  82  7  -13.2  0.187 -9.000 -9.000 -999.   195.     44.8  0.0310  0.32  0.48  3.10  260.0  15.0  282.0  2.0  0  0.00  68.  1006.  2 NAD-SFC NoSubs
10  3 23  82  8   24.3  0.260  0.398  0.010   92.   319.    -65.3  0.0780  0.32  0.24  3.10  282.0  15.0  284.2  2.0  0  0.00  56.  1006.  2 NAD-SFC NoSubs
10  3 23  82  9   57.7  0.240  0.752  0.010  264.   283.    -21.5  0.0780  0.32  0.17  2.60  274.0  15.0  286.1  2.0  0  0.00  50.  1006.  2 NAD-SFC NoSubs
10  3 23  82 10   84.7  0.213  0.955  0.009  369.   236.    -10.3  0.0310  0.32  0.15  2.60  263.0  15.0  288.5  2.0  0  0.00  41.  1006.  2 NAD-SFC NoSubs
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10  3 23  82 11  103.6  0.252  1.107  0.009  470.  304.    -13.9  0.0780  0.32  0.14  2.60  275.0  15.0  290.2  2.0  0  0.00  38.  1006.  2 NAD-SFC NoSubs
10  3 23  82 12  113.6  0.218  1.212  0.009  562.  245.     -8.2  0.0780  0.32  0.14  2.10  280.0  15.0  291.9  2.0  0  0.00  34.  1005.  2 NAD-SFC NoSubs
10  3 23  82 13  114.6  0.218  1.270  0.008  642.  245.     -8.2  0.0780  0.32  0.14  2.10  288.0  15.0  293.2  2.0  0  0.00  32.  1005.  2 NAD-SFC NoSubs
10  3 23  82 14  106.6  0.198  1.288  0.008  719.  211.     -6.5  0.1620  0.32  0.14  1.50  308.0  15.0  294.4  2.0  0  0.00  29.  1005.  2 NAD-SFC NoSubs
10  3 23  82 15   89.5  0.194  1.250  0.008  781.  205.     -7.3  0.1620  0.32  0.15  1.50  322.0  15.0  295.0  2.0  0  0.00  28.  1004.  2 NAD-SFC NoSubs
10  3 23  82 16   64.1  0.244  1.138  0.008  822.  289.    -20.2  0.1880  0.32  0.17  2.10  337.0  15.0  295.2  2.0  0  0.00  28.  1004.  2 NAD-SFC NoSubs
10  3 23  82 17   31.7  0.230  0.907  0.008  841.  265.    -34.4  0.1900  0.32  0.23  2.10    7.0  15.0  294.8  2.0  0  0.00  35.  1004.  2 NAD-SFC NoSubs
10  3 23  82 18   -5.9  0.253 -9.000 -9.000 -999.  305.   246.2  0.1280  0.32  0.42  3.10   35.0  15.0  293.9  2.0  0  0.00  40.  1005.  2 NAD-SFC NoSubs
10  3 23  82 19  -25.9  0.244 -9.000 -9.000 -999.  290.    50.4  0.1280  0.32  1.00  3.10   36.0  15.0  292.5  2.0  0  0.00  44.  1005.  2 NAD-SFC NoSubs
10  3 23  82 20   -5.1  0.104 -9.000 -9.000 -999.   96.    19.8  0.0760  0.32  1.00  1.50   62.0  15.0  291.2  2.0  0  0.00  48.  1005.  2 NAD-SFC NoSubs
10  3 23  82 21   -1.0  0.067 -9.000 -9.000 -999.   42.    26.8  0.0340  0.32  1.00  0.50  223.0  15.0  289.5  2.0  0  0.00  55.  1006.  2 NAD-SFC NoSubs
10  3 23  82 22   -2.3  0.077 -9.000 -9.000 -999.   51.    17.5  0.0340  0.32  1.00  1.00  238.0  15.0  288.2  2.0  0  0.00  61.  1006.  2 NAD-SFC NoSubs
10  3 23  82 23   -1.4  0.079 -9.000 -9.000 -999.   53.    30.9  0.1620  0.32  1.00  0.50  313.0  15.0  287.2  2.0  0  0.00  65.  1007.  2 NAD-SFC NoSubs
10  3 23  82 24   -3.5  0.095 -9.000 -9.000 -999.   70.    22.0  0.1880  0.32  1.00  1.00  335.0  15.0  286.4  2.0  0  0.00  69.  1007.  2 NAD-SFC NoSubs
10  3 24  83  1   -1.5  0.080 -9.000 -9.000 -999.   55.    31.3  0.1880  0.32  1.00  0.50  347.0  15.0  285.9  2.0  0  0.00  70.  1007.  2 NAD-SFC NoSubs
10  3 24  83  2 -999.0 -9.000 -9.000 -9.000 -999.  -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  285.4  2.0  0  0.00  71.  1007.  2 NAD-SFC NoSubs
10  3 24  83  3   -2.3  0.077 -9.000 -9.000 -999.   51.    17.6  0.0340  0.32  1.00  1.00  226.0  15.0  285.0  2.0  0  0.00  71.  1008.  2 NAD-SFC NoSubs
10  3 24  83  4   -4.1  0.091 -9.000 -9.000 -999.   66.    16.4  0.0310  0.32  1.00  1.50  265.0  15.0  284.6  2.0  0  0.00  70.  1008.  2 NAD-SFC NoSubs
10  3 24  83  5  -10.0  0.144 -9.000 -9.000 -999.  131.    26.8  0.0780  0.32  1.00  2.10  272.0  15.0  284.2  2.0  0  0.00  69.  1008.  2 NAD-SFC NoSubs
10  3 24  83  6   -7.7  0.122 -9.000 -9.000 -999.  102.    20.9  0.0310  0.32  1.00  2.10  268.0  15.0  283.9  2.0  0  0.00  67.  1009.  2 NAD-SFC NoSubs
10  3 24  83  7   -3.0  0.087 -9.000 -9.000 -999.   62.    19.4  0.0310  0.32  0.47  1.50  257.0  15.0  283.8  2.0  0  0.00  66.  1009.  2 NAD-SFC NoSubs
10  3 24  83  8   25.2  0.148  0.405  0.010   95.  137.    -11.7  0.0780  0.32  0.24  1.50  279.0  15.0  284.4  2.0  0  0.00  61.  1009.  2 NAD-SFC NoSubs
10  3 24  83  9   58.5  0.092  0.671  0.009  185.   68.     -1.2  0.1620  0.32  0.17  0.50  314.0  15.0  286.0  2.0  0  0.00  52.  1009.  2 NAD-SFC NoSubs
10  3 24  83 10   85.5  0.084  0.879  0.006  285.   58.     -1.0  0.0780  0.32  0.15  0.50  276.0  15.0  288.2  2.0  0  0.00  45.  1008.  2 NAD-SFC NoSubs
10  3 24  83 11  104.3  0.073  1.031  0.005  378.   47.     -1.0  0.0310  0.32  0.14  0.50  255.0  15.0  290.4  2.0  0  0.00  37.  1008.  2 NAD-SFC NoSubs
10  3 24  83 12  114.3 -9.000 -9.000 -9.000  590.  -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  291.8  2.0  0  0.00  32.  1007.  2 NAD-SFC NoSubs
10  3 24  83 13  115.1  0.101  1.341  0.006  753.   77.     -1.0  0.1620  0.32  0.14  0.50  303.0  15.0  292.8  2.0  0  0.00  29.  1006.  2 NAD-SFC NoSubs
10  3 24  83 14  107.0  0.198  1.375  0.006  872.  211.     -6.5  0.1620  0.32  0.14  1.50  317.0  15.0  293.5  2.0  0  0.00  29.  1006.  2 NAD-SFC NoSubs
10  3 24  83 15   89.8  0.200  1.340  0.006  962.  215.     -8.0  0.1880  0.32  0.15  1.50  345.0  15.0  293.9  2.0  0  0.00  29.  1005.  2 NAD-SFC NoSubs
10  3 24  83 16   64.3 -9.000 -9.000 -9.000 1004.  -999. -99999.0  0.0879  0.32  0.17  0.00    0.0  15.0  293.8  2.0  0  0.00  33.  1005.  2 NAD-SFC NoSubs
10  3 24  83 17   31.9 -9.000 -9.000 -9.000 1021.  -999. -99999.0  0.0879  0.32  0.22  0.00    0.0  15.0  293.2  2.0  0  0.00  38.  1005.  2 NAD-SFC NoSubs
10  3 24  83 18   -4.1  0.185 -9.000 -9.000 -999.  191.    139.8  0.1880  0.32  0.42  2.10  332.0  15.0  292.6  2.0  0  0.00  40.  1005.  2 NAD-SFC NoSubs
10  3 24  83 19  -31.3  0.295 -9.000 -9.000 -999.  384.     73.3  0.0780  0.32  1.00  4.10  295.0  15.0  291.9  2.0  0  0.00  43.  1006.  2 NAD-SFC NoSubs
10  3 24  83 20  -39.7  0.370 -9.000 -9.000 -999.  540.    114.4  0.0780  0.32  1.00  5.10  294.0  15.0  289.2  2.0  0  0.00  54.  1007.  2 NAD-SFC NoSubs
10  3 24  83 21  -36.0  0.332 -9.000 -9.000 -999.  461.     91.5  0.0780  0.32  1.00  4.60  286.0  15.0  286.9  2.0  0  0.00  65.  1008.  2 NAD-SFC NoSubs
10  3 24  83 22  -32.1  0.295 -9.000 -9.000 -999.  385.     71.6  0.0780  0.32  1.00  4.10  294.0  15.0  285.5  2.0  0  0.00  73.  1009.  2 NAD-SFC NoSubs
10  3 24  83 23  -28.1  0.257 -9.000 -9.000 -999.  313.     54.3  0.0780  0.32  1.00  3.60  292.0  15.0  284.8  2.0  0  0.00  78.  1009.  2 NAD-SFC NoSubs
10  3 24  83 24  -10.0  0.144 -9.000 -9.000 -999.  138.     26.8  0.0780  0.32  1.00  2.10  288.0  15.0  284.4  2.0  0  0.00  79.  1010.  2 NAD-SFC NoSubs
10  3 25  84  1   -2.3  0.076 -9.000 -9.000 -999.   52.     17.5  0.0340  0.32  1.00  1.00  236.0  15.0  283.9  2.0  0  0.00  81.  1010.  3 NAD-SFC NoSubs
10  3 25  84  2   -7.8  0.123 -9.000 -9.000 -999.  104.     21.7  0.0340  0.32  1.00  2.10  219.0  15.0  283.5  2.0  0  0.00  83.  1010.  3 NAD-SFC NoSubs
10  3 25  84  3  -12.2  0.155 -9.000 -9.000 -999.  147.     27.6  0.0340  0.32  1.00  2.60  222.0  15.0  283.0  2.0  0  0.00  85.  1010.  3 NAD-SFC NoSubs
10  3 25  84  4  -12.2  0.155 -9.000 -9.000 -999.  147.     27.6  0.0340  0.32  1.00  2.60  222.0  15.0  282.8  2.0  0  0.00  87.  1010.  3 NAD-SFC NoSubs
10  3 25  84  5   -7.7  0.122 -9.000 -9.000 -999.  102.     21.1  0.0310  0.32  1.00  2.10  249.0  15.0  282.6  2.0  0  0.00  88.  1010.  3 NAD-SFC NoSubs
10  3 25  84  6   -4.1  0.091 -9.000 -9.000 -999.   66.     16.5  0.0310  0.32  1.00  1.50  266.0  15.0  282.2  2.0  0  0.00  90.  1010.  3 NAD-SFC NoSubs
10  3 25  84  7   -2.0  0.080 -9.000 -9.000 -999.   55.     23.9  0.1620  0.32  0.46  1.00  309.0  15.0  282.2  2.0  0  0.00  91.  1010.  4 NAD-SFC NoSubs
10  3 25  84  8   27.1  0.083  0.497  0.005  164.   58.     -1.9  0.1620  0.32  0.24  0.50  328.0  15.0  283.4  2.0  0  0.00  86.  1011.  4 NAD-SFC NoSubs
10  3 25  84  9   59.7 -9.000 -9.000 -9.000  470.  -999. -99999.0  0.0879  0.32  0.17  0.00    0.0  15.0  284.5  2.0  0  0.00  80.  1011.  3 NAD-SFC NoSubs
10  3 25  84 10   86.0 -9.000 -9.000 -9.000  667.  -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0  285.4  2.0  0  0.00  75.  1010.  3 NAD-SFC NoSubs
10  3 25  84 11  104.4 -9.000 -9.000 -9.000  872.  -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  286.2  2.0  0  0.00  69.  1010.  3 NAD-SFC NoSubs
10  3 25  84 12  114.1  0.153  1.469  0.008 1001.   144.     -2.8  0.1620  0.32  0.14  1.00  302.0  15.0  287.4  2.0  0  0.00  64.  1009.  3 NAD-SFC NoSubs
10  3 25  84 13  114.9  0.199  1.500  0.009 1059.   214.     -6.2  0.1620  0.32  0.14  1.50  325.0  15.0  288.6  2.0  0  0.00  57.  1009.  3 NAD-SFC NoSubs
10  3 25  84 14  105.4  0.248  1.481  0.009 1111.   297.    -13.1  0.1620  0.32  0.14  2.10  326.0  15.0  289.5  2.0  0  0.00  51.  1008.  4 NAD-SFC NoSubs
10  3 25  84 15   88.8  0.335  1.417  0.009 1152.   466.    -38.1  0.1880  0.32  0.15  3.10  344.0  15.0  290.2  2.0  0  0.00  47.  1007.  4 NAD-SFC NoSubs
10  3 25  84 16   64.6  0.410  1.285  0.009 1182.   630.    -96.0  0.1880  0.32  0.17  4.10  355.0  15.0  290.5  2.0  0  0.00  45.  1007.  3 NAD-SFC NoSubs
10  3 25  84 17   32.5  0.355  1.028  0.009 1196.   510.   -123.4  0.1880  0.32  0.22  3.60  353.0  15.0  290.4  2.0  0  0.00  50.  1006.  3 NAD-SFC NoSubs
10  3 25  84 18   -4.9  0.327 -9.000 -9.000 -999.   449.    641.2  0.1880  0.32  0.41  3.60  347.0  15.0  289.6  2.0  0  0.00  56.  1006.  3 NAD-SFC NoSubs
10  3 25  84 19  -37.8  0.359 -9.000 -9.000 -999.   517.    110.3  0.1880  0.32  1.00  4.10  345.0  15.0  288.0  2.0  0  0.00  64.  1007.  3 NAD-SFC NoSubs
10  3 25  84 20  -37.9  0.359 -9.000 -9.000 -999.   517.    109.8  0.1880  0.32  1.00  4.10  342.0  15.0  286.6  2.0  0  0.00  71.  1007.  3 NAD-SFC NoSubs
10  3 25  84 21  -36.7  0.360 -9.000 -9.000 -999.   517.    113.7  0.1880  0.32  1.00  4.10  339.0  15.0  285.6  2.0  0  0.00  74.  1008.  4 NAD-SFC NoSubs
10  3 25  84 22  -32.1  0.314 -9.000 -9.000 -999.   423.     86.6  0.1880  0.32  1.00  3.60  342.0  15.0  285.2  2.0  0  0.00  75.  1008.  4 NAD-SFC NoSubs
10  3 25  84 23  -36.9  0.360 -9.000 -9.000 -999.   517.    113.3  0.1880  0.32  1.00  4.10  344.0  15.0  284.5  2.0  0  0.00  77.  1009.  4 NAD-SFC NoSubs
10  3 25  84 24  -35.7  0.346 -9.000 -9.000 -999.   490.    104.9  0.1620  0.32  1.00  4.10  327.0  15.0  283.8  2.0  0  0.00  79.  1009.  4 NAD-SFC NoSubs
10  3 26  85  1  -35.8  0.346 -9.000 -9.000 -999.   489.    104.7  0.1620  0.32  1.00  4.10  318.0  15.0  283.1  2.0  0  0.00  82.  1009.  4 NAD-SFC NoSubs
10  3 26  85  2  -35.9  0.346 -9.000 -9.000 -999.   489.    104.5  0.1620  0.32  1.00  4.10  323.0  15.0  282.6  2.0  0  0.00  85.  1010.  4 NAD-SFC NoSubs
10  3 26  85  3  -35.9  0.346 -9.000 -9.000 -999.   489.    104.2  0.1620  0.32  1.00  4.10  320.0  15.0  282.0  2.0  0  0.00  89.  1010.  4 NAD-SFC NoSubs
10  3 26  85  4  -32.6  0.302 -9.000 -9.000 -999.   400.     76.3  0.1620  0.32  1.00  3.60  316.0  15.0  281.5  2.0  0  0.00  92.  1010.  3 NAD-SFC NoSubs
10  3 26  85  5  -27.9  0.258 -9.000 -9.000 -999.   316.     55.6  0.1620  0.32  1.00  3.10  318.0  15.0  281.1  2.0  0  0.00  94.  1010.  3 NAD-SFC NoSubs
10  3 26  85  6   -6.5  0.120 -9.000 -9.000 -999.   114.     24.1  0.1620  0.32  1.00  1.50  307.0  15.0  280.8  2.0  0  0.00  95.  1011.  3 NAD-SFC NoSubs
10  3 26  85  7   -0.6  0.053 -9.000 -9.000 -999.    33.     22.7  0.0780  0.32  0.45  0.50  274.0  15.0  280.8  2.0  0  0.00  95.  1011.  3 NAD-SFC NoSubs
10  3 26  85  8   27.6  0.310  0.484  0.005  148.   414.    -97.5  0.1880  0.32  0.23  3.10  349.0  15.0  282.8  2.0  0  0.00  80.  1012.  3 NAD-SFC NoSubs
10  3 26  85  9   60.5  0.284  0.807  0.005  313.   364.    -34.3  0.1880  0.32  0.17  2.60  354.0  15.0  284.2  2.0  0  0.00  71.  1012.  3 NAD-SFC NoSubs
10  3 26  85 10   86.7  0.199  1.063  0.005  500.   216.     -8.2  0.1880  0.32  0.15  1.50  348.0  15.0  285.8  2.0  0  0.00  62.  1011.  2 NAD-SFC NoSubs
10  3 26  85 11  105.2  0.156  1.261  0.005  687.   149.     -3.3  0.1880  0.32  0.14  1.00  338.0  15.0  287.2  2.0  0  0.00  54.  1011.  2 NAD-SFC NoSubs
10  3 26  85 12  115.0  0.153  1.397  0.005  855.   144.     -2.8  0.1620  0.32  0.14  1.00  316.0  15.0  288.4  2.0  0  0.00  50.  1010.  2 NAD-SFC NoSubs
10  3 26  85 13  115.7  0.205  1.470  0.005  989.   223.     -6.7  0.1880  0.32  0.14  1.50  334.0  15.0  289.4  2.0  0  0.00  46.  1010.  2 NAD-SFC NoSubs
10  3 26  85 14  107.5  0.256  1.474  0.005 1075.   311.    -14.1  0.1880  0.32  0.14  2.10  339.0  15.0  290.4  2.0  0  0.00  43.  1010.  3 NAD-SFC NoSubs
10  3 26  85 15   90.5  0.336  1.421  0.006 1142.   466.    -37.6  0.1880  0.32  0.15  3.10  345.0  15.0  291.0  2.0  0  0.00  40.  1009.  3 NAD-SFC NoSubs
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10  3 26  85 16   64.8  0.453  1.288  0.006 1187.  730.   -128.7  0.1880  0.32  0.17   4.60  342.0  15.0  291.0   2.0    0   0.00   39.  1009.    2 NAD-SFC NoSubs
10  3 26  85 17   32.4  0.355  1.028  0.006 1209.  514.   -124.2  0.1880  0.32  0.22   3.60  342.0  15.0  290.8   2.0    0   0.00   48.  1009.    2 NAD-SFC NoSubs
10  3 26  85 18   -5.4  0.278 -9.000 -9.000 -999.  355.    358.3  0.1880  0.32  0.41   3.10  332.0  15.0  289.8   2.0    0   0.00   53.  1010.    2 NAD-SFC NoSubs
10  3 26  85 19  -31.8  0.302 -9.000 -9.000 -999.  399.     78.3  0.1620  0.32  1.00   3.60  318.0  15.0  288.6   2.0    0   0.00   57.  1010.    3 NAD-SFC NoSubs
10  3 26  85 20  -31.9  0.302 -9.000 -9.000 -999.  399.     78.0  0.1620  0.32  1.00   3.60  311.0  15.0  287.5   2.0    0   0.00   61.  1010.    3 NAD-SFC NoSubs
10  3 26  85 21  -19.9  0.214 -9.000 -9.000 -999.  241.     44.4  0.1620  0.32  1.00   2.60  309.0  15.0  286.6   2.0    0   0.00   63.  1010.    3 NAD-SFC NoSubs
10  3 26  85 22   -6.5  0.120 -9.000 -9.000 -999.  104.     24.3  0.1620  0.32  1.00   1.50  302.0  15.0  285.8   2.0    0   0.00   66.  1011.    3 NAD-SFC NoSubs
10  3 26  85 23   -1.2  0.072 -9.000 -9.000 -999.   47.     28.8  0.0780  0.32  1.00   0.50  287.0  15.0  285.0   2.0    0   0.00   69.  1011.    3 NAD-SFC NoSubs
10  3 26  85 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00   0.00    0.0  15.0  284.0   2.0    0   0.00   73.  1011.    3 NAD-SFC NoSubs
10  3 27  86  1   -1.0  0.068 -9.000 -9.000 -999.   42.     27.1  0.0380  0.32  1.00   0.50  158.0  15.0  283.2   2.0    0   0.00   76.  1011.    3 NAD-SFC NoSubs
10  3 27  86  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00   0.00    0.0  15.0  282.6   2.0    0   0.00   79.  1011.    3 NAD-SFC NoSubs
10  3 27  86  3   -1.0  0.067 -9.000 -9.000 -999.   42.     26.8  0.0330  0.32  1.00   0.50  184.0  15.0  282.1   2.0    0   0.00   80.  1011.    3 NAD-SFC NoSubs
10  3 27  86  4   -1.0  0.068 -9.000 -9.000 -999.   42.     27.0  0.0330  0.32  1.00   0.50  198.0  15.0  281.8   2.0    0   0.00   81.  1010.    2 NAD-SFC NoSubs
10  3 27  86  5   -1.0  0.068 -9.000 -9.000 -999.   43.     27.1  0.0340  0.32  1.00   0.50  221.0  15.0  281.4   2.0    0   0.00   81.  1011.    2 NAD-SFC NoSubs
10  3 27  86  6   -1.0  0.068 -9.000 -9.000 -999.   43.     27.1  0.0340  0.32  1.00   0.50  220.0  15.0  281.2   2.0    0   0.00   81.  1011.    2 NAD-SFC NoSubs
10  3 27  86  7   -1.3  0.061 -9.000 -9.000 -999.   36.     16.3  0.0310  0.32  0.44   1.00  242.0  15.0  281.2   2.0    0   0.00   81.  1012.    2 NAD-SFC NoSubs
10  3 27  86  8   27.8  0.150  0.409  0.006   88.  139.    -10.9  0.0780  0.32  0.23   1.50  284.0  15.0  283.8   2.0    0   0.00   70.  1012.    2 NAD-SFC NoSubs
10  3 27  86  9   61.1  0.105  0.764  0.006  264.   82.     -1.7  0.0310  0.32  0.17   1.00  254.0  15.0  286.0   2.0    0   0.00   61.  1012.    2 NAD-SFC NoSubs
10  3 27  86 10   87.8  0.110  1.032  0.007  452.   87.     -1.4  0.0310  0.32  0.15   1.00  243.0  15.0  288.0   2.0    0   0.00   52.  1011.    2 NAD-SFC NoSubs
10  3 27  86 11  106.5 -9.000 -9.000 -9.000  614. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  290.1   2.0    0   0.00   43.  1011.    2 NAD-SFC NoSubs
10  3 27  86 12  116.3 -9.000 -9.000 -9.000  723. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  291.9   2.0    0   0.00   38.  1010.    2 NAD-SFC NoSubs
10  3 27  86 13  117.3  0.104  1.380  0.008  808.   81.     -1.0  0.1880  0.32  0.14   0.50  332.0  15.0  293.8   2.0    0   0.00   32.  1009.    2 NAD-SFC NoSubs
10  3 27  86 14  109.1  0.157  1.387  0.008  880.  150.     -3.2  0.1880  0.32  0.14   1.00  340.0  15.0  295.2   2.0    0   0.00   27.  1009.    2 NAD-SFC NoSubs
10  3 27  86 15   92.1  0.201  1.338  0.008  937.  216.     -7.9  0.1900  0.32  0.15   1.50   21.0  15.0  296.2   2.0    0   0.00   25.  1008.    2 NAD-SFC NoSubs
10  3 27  86 16   66.6  0.304  1.217  0.008  975.  402.    -38.0  0.1280  0.32  0.17   3.10   31.0  15.0  296.2   2.0    0   0.00   26.  1008.    2 NAD-SFC NoSubs
10  3 27  86 17   33.9  0.368  0.977  0.008  990.  536.   -132.3  0.1280  0.32  0.22   4.10   34.0  15.0  295.0   2.0    0   0.00   41.  1008.    2 NAD-SFC NoSubs
10  3 27  86 18   -4.1  0.386 -9.000 -9.000 -999.  574.   1254.1  0.1280  0.32  0.41   4.60   33.0  15.0  292.8   2.0    0   0.00   52.  1009.    2 NAD-SFC NoSubs
10  3 27  86 19  -35.0  0.328 -9.000 -9.000 -999.  452.     90.4  0.1280  0.32  1.00   4.10   48.0  15.0  291.2   2.0    0   0.00   58.  1010.    2 NAD-SFC NoSubs
10  3 27  86 20  -27.4  0.256 -9.000 -9.000 -999.  313.     55.0  0.0760  0.32  1.00   3.60   85.0  15.0  290.8   2.0    0   0.00   56.  1010.    2 NAD-SFC NoSubs
10  3 27  86 21  -13.2  0.164 -9.000 -9.000 -999.  163.     29.9  0.0460  0.32  1.00   2.60  130.0  15.0  290.1   2.0    0   0.00   54.  1011.    2 NAD-SFC NoSubs
10  3 27  86 22  -12.1  0.154 -9.000 -9.000 -999.  145.     27.3  0.0330  0.32  1.00   2.60  195.0  15.0  289.1   2.0    0   0.00   51.  1011.    2 NAD-SFC NoSubs
10  3 27  86 23   -7.9  0.123 -9.000 -9.000 -999.  104.     21.6  0.0340  0.32  1.00   2.10  213.0  15.0  288.2   2.0    0   0.00   48.  1012.    2 NAD-SFC NoSubs
10  3 27  86 24   -1.0  0.067 -9.000 -9.000 -999.   42.     26.7  0.0310  0.32  1.00   0.50  244.0  15.0  287.2   2.0    0   0.00   49.  1012.    2 NAD-SFC NoSubs
10  3 28  87  1   -1.2  0.073 -9.000 -9.000 -999.   47.     29.0  0.0760  0.32  1.00   0.50   60.0  15.0  286.1   2.0    0   0.00   54.  1011.    2 NAD-SFC NoSubs
10  3 28  87  2   -2.8  0.084 -9.000 -9.000 -999.   59.     19.4  0.0760  0.32  1.00   1.00   81.0  15.0  285.2   2.0    0   0.00   58.  1011.    2 NAD-SFC NoSubs
10  3 28  87  3   -1.1  0.070 -9.000 -9.000 -999.   45.     28.0  0.0510  0.32  1.00   0.50   95.0  15.0  284.5   2.0    0   0.00   61.  1011.    2 NAD-SFC NoSubs
10  3 28  87  4   -1.1  0.070 -9.000 -9.000 -999.   45.     28.0  0.0510  0.32  1.00   0.50   91.0  15.0  284.2   2.0    0   0.00   61.  1011.    2 NAD-SFC NoSubs
10  3 28  87  5   -1.4  0.077 -9.000 -9.000 -999.   51.     30.4  0.1280  0.32  1.00   0.50   50.0  15.0  283.9   2.0    0   0.00   61.  1012.    2 NAD-SFC NoSubs
10  3 28  87  6   -1.4  0.077 -9.000 -9.000 -999.   51.     30.4  0.1280  0.32  1.00   0.50   52.0  15.0  283.8   2.0    0   0.00   61.  1012.    2 NAD-SFC NoSubs
10  3 28  87  7   13.8 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  0.44   0.00    0.0  15.0  283.6   2.0    0   0.00   61.  1012.    2 NAD-SFC NoSubs
10  3 28  87  8   28.9 -9.000 -9.000 -9.000   88. -999. -99999.0  0.0879  0.32  0.23   0.00    0.0  15.0  285.2   2.0    0   0.00   57.  1012.    2 NAD-SFC NoSubs
10  3 28  87  9   62.4  0.093  0.741  0.005  236.   68.     -1.2  0.1620  0.32  0.17   0.50  321.0  15.0  288.5   2.0    0   0.00   41.  1012.    2 NAD-SFC NoSubs
10  3 28  87 10   89.1  0.101  1.017  0.005  426.   77.     -1.0  0.1880  0.32  0.15   0.50  334.0  15.0  290.8   2.0    0   0.00   36.  1012.    2 NAD-SFC NoSubs
10  3 28  87 11  107.7  0.103  1.227  0.005  618.   79.     -1.0  0.1880  0.32  0.14   0.50  336.0  15.0  292.5   2.0    0   0.00   32.  1011.    2 NAD-SFC NoSubs
10  3 28  87 12  117.5  0.104  1.405  0.005  852.   81.     -1.0  0.1880  0.32  0.14   0.50  333.0  15.0  294.0   2.0    0   0.00   29.  1010.    2 NAD-SFC NoSubs
10  3 28  87 13  118.2  0.101  1.495  0.005 1018.   77.     -1.0  0.1620  0.32  0.14   0.50  324.0  15.0  295.1   2.0    0   0.00   27.  1009.    2 NAD-SFC NoSubs
10  3 28  87 14  109.9  0.153  1.502  0.005 1111.  143.     -2.9  0.1620  0.32  0.14   1.00  322.0  15.0  296.0   2.0    0   0.00   25.  1009.    2 NAD-SFC NoSubs
10  3 28  87 15   92.7  0.154  1.450  0.005 1184.  145.     -3.5  0.1880  0.32  0.15   1.00  332.0  15.0  296.4   2.0    0   0.00   24.  1008.    2 NAD-SFC NoSubs
10  3 28  87 16   67.2  0.245  1.320  0.005 1234.  290.    -19.6  0.1880  0.32  0.16   2.10  353.0  15.0  296.4   2.0    0   0.00   25.  1008.    2 NAD-SFC NoSubs
10  3 28  87 17   34.6  0.273  1.066  0.005 1257.  341.    -52.6  0.1880  0.32  0.22   2.60  358.0  15.0  295.8   2.0    0   0.00   34.  1007.    2 NAD-SFC NoSubs
10  3 28  87 18   -0.7  0.334 -9.000 -9.000 -999.  462.   4920.0  0.1900  0.32  0.40   3.60    9.0  15.0  294.6   2.0    0   0.00   40.  1007.    2 NAD-SFC NoSubs
10  3 28  87 19  -33.3  0.315 -9.000 -9.000 -999.  424.     83.9  0.1900  0.32  1.00   3.60   25.0  15.0  293.2   2.0    0   0.00   44.  1007.    2 NAD-SFC NoSubs
10  3 28  87 20   -6.8  0.125 -9.000 -9.000 -999.  144.     25.4  0.1880  0.32  1.00   1.50  347.0  15.0  292.0   2.0    0   0.00   48.  1007.    2 NAD-SFC NoSubs
10  3 28  87 21  -22.2  0.219 -9.000 -9.000 -999.  247.     42.6  0.0780  0.32  1.00   3.10  283.0  15.0  290.6   2.0    0   0.00   52.  1008.    2 NAD-SFC NoSubs
10  3 28  87 22  -31.7  0.295 -9.000 -9.000 -999.  384.     72.5  0.0780  0.32  1.00   4.10  279.0  15.0  288.8   2.0    0   0.00   58.  1008.    2 NAD-SFC NoSubs
10  3 28  87 23  -27.8  0.257 -9.000 -9.000 -999.  313.     54.9  0.0780  0.32  1.00   3.60  276.0  15.0  287.6   2.0    0   0.00   62.  1008.    2 NAD-SFC NoSubs
10  3 28  87 24  -27.9  0.257 -9.000 -9.000 -999.  313.     54.8  0.0780  0.32  1.00   3.60  292.0  15.0  286.8   2.0    0   0.00   65.  1008.    2 NAD-SFC NoSubs
10  3 29  88  1  -20.1  0.214 -9.000 -9.000 -999.  238.     43.7  0.1620  0.32  1.00   2.60  309.0  15.0  286.1   2.0    0   0.00   68.  1007.    2 NAD-SFC NoSubs
10  3 29  88  2   -3.4  0.093 -9.000 -9.000 -999.   78.     21.5  0.1620  0.32  1.00   1.00  314.0  15.0  285.6   2.0    0   0.00   72.  1007.    2 NAD-SFC NoSubs
10  3 29  88  3   -1.0  0.067 -9.000 -9.000 -999.   42.     26.8  0.0310  0.32  1.00   0.50  266.0  15.0  285.2   2.0    0   0.00   74.  1007.    2 NAD-SFC NoSubs
10  3 29  88  4   -1.2  0.073 -9.000 -9.000 -999.   47.     29.1  0.0780  0.32  1.00   0.50  297.0  15.0  284.9   2.0    0   0.00   77.  1006.    2 NAD-SFC NoSubs
10  3 29  88  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00   0.00    0.0  15.0  284.2   2.0    0   0.00   80.  1006.    2 NAD-SFC NoSubs
10  3 29  88  6   -1.1  0.070 -9.000 -9.000 -999.   44.     27.8  0.0460  0.32  1.00   0.50  128.0  15.0  283.8   2.0    0   0.00   83.  1006.    2 NAD-SFC NoSubs
10  3 29  88  7   -0.4  0.046 -9.000 -9.000 -999.   24.     20.2  0.0510  0.32  0.43   0.50  116.0  15.0  283.4   2.0    0   0.00   84.  1006.    2 NAD-SFC NoSubs
10  3 29  88  8   29.7  0.068  0.482  0.010  135.   42.     -1.0  0.0510  0.32  0.23   0.50  117.0  15.0  284.8   2.0    0   0.00   78.  1005.    2 NAD-SFC NoSubs
10  3 29  88  9   63.0 -9.000 -9.000 -9.000  249. -999. -99999.0  0.0879  0.32  0.17   0.00    0.0  15.0  287.0   2.0    0   0.00   69.  1005.    2 NAD-SFC NoSubs
10  3 29  88 10   89.5 -9.000 -9.000 -9.000  351. -999. -99999.0  0.0879  0.32  0.15   0.00    0.0  15.0  289.0   2.0    0   0.00   61.  1004.    2 NAD-SFC NoSubs
10  3 29  88 11  108.0 -9.000 -9.000 -9.000  467. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  290.6   2.0    0   0.00   55.  1004.    2 NAD-SFC NoSubs
10  3 29  88 12  117.7 -9.000 -9.000 -9.000  582. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  292.1   2.0    0   0.00   46.  1003.    2 NAD-SFC NoSubs
10  3 29  88 13  118.3  0.088  1.315  0.006  688.   62.     -1.0  0.0780  0.32  0.14   0.50  279.0  15.0  293.2   2.0    0   0.00   40.  1002.    2 NAD-SFC NoSubs
10  3 29  88 14  110.0  0.087  1.351  0.005  801.   62.     -1.0  0.0780  0.32  0.14   0.50  276.0  15.0  294.1   2.0    0   0.00   37.  1001.    2 NAD-SFC NoSubs
10  3 29  88 15   93.0  0.098  1.321  0.006  886.   74.     -1.0  0.1620  0.32  0.15   0.50  307.0  15.0  294.8   2.0    0   0.00   36.  1000.    3 NAD-SFC NoSubs
10  3 29  88 16   67.7  0.144  1.214  0.006  943.  131.     -3.9  0.1620  0.32  0.16   1.00  328.0  15.0  295.0   2.0    0   0.00   36.   999.    3 NAD-SFC NoSubs
10  3 29  88 17   35.6  0.182  0.990  0.006  971.  186.    -15.1  0.1900  0.32  0.22   1.50   12.0  15.0  294.9   2.0    0   0.00   37.   999.    3 NAD-SFC NoSubs
10  3 29  88 18    1.1  0.196  0.315  0.006  970.  209.   -590.2  0.1900  0.32  0.40   2.10   17.0  15.0  294.2   2.0    0   0.00   43.   999.    3 NAD-SFC NoSubs
10  3 29  88 19  -13.0  0.177 -9.000 -9.000 -999.  178.     37.7  0.1880  0.32  1.00   2.10  337.0  15.0  292.9   2.0    0   0.00   49.   999.    4 NAD-SFC NoSubs
10  3 29  88 20  -36.9  0.370 -9.000 -9.000 -999.  541.    123.0  0.0780  0.32  1.00   5.10  289.0  15.0  291.1   2.0    0   0.00   60.  1000.    4 NAD-SFC NoSubs
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10  3 29  88 21  -38.6  0.370 -9.000 -9.000 -999.  540.   117.0  0.0780  0.32  1.00  5.10  276.0  15.0  288.0  2.0   0  0.00  84.  1000.   3 NAD-SFC NoSubs
10  3 29  88 22  -29.7  0.295 -9.000 -9.000 -999.  388.    77.0  0.0780  0.32  1.00  4.10  275.0  15.0  287.2  2.0   0  0.00  86.  1000.   4 NAD-SFC NoSubs
10  3 29  88 23  -25.2  0.249 -9.000 -9.000 -999.  299.    54.8  0.0310  0.32  1.00  4.10  265.0  15.0  286.8  2.0   0  0.00  86.  1000.   4 NAD-SFC NoSubs
10  3 29  88 24  -16.6  0.185 -9.000 -9.000 -999.  192.    34.1  0.0310  0.32  1.00  3.10  261.0  15.0  286.5  2.0   0  0.00  86.  1000.   4 NAD-SFC NoSubs
10  3 30  89  1   -7.4  0.122 -9.000 -9.000 -999.  103.    21.7  0.0310  0.32  1.00  2.10  265.0  15.0  286.2  2.0   0  0.00  86.  1000.   4 NAD-SFC NoSubs
10  3 30  89  2   -1.9  0.070 -9.000 -9.000 -999.   45.    16.7  0.0340  0.32  1.00  1.00  239.0  15.0  286.2  2.0   0  0.00  86.  1000.   7 NAD-SFC NoSubs
10  3 30  89  3   -1.4  0.063 -9.000 -9.000 -999.   38.    16.4  0.0340  0.32  1.00  1.00  210.0  15.0  286.2  2.0   0  0.00  85.  1000.  10 NAD-SFC NoSubs
10  3 30  89  4   -2.9  0.090 -9.000 -9.000 -999.   65.    22.1  0.0380  0.32  1.00  1.50  171.0  15.0  286.4  2.0   0  0.00  85.  1000.  10 NAD-SFC NoSubs
10  3 30  89  5   -3.1  0.093 -9.000 -9.000 -999.   68.    23.2  0.0460  0.32  1.00  1.50  136.0  15.0  286.4  2.0   0  0.00  86.  1000.  10 NAD-SFC NoSubs
10  3 30  89  6   -6.2  0.134 -9.000 -9.000 -999.  117.    34.2  0.0460  0.32  1.00  2.10  135.0  15.0  286.4  2.0   0  0.00  87.  1000.  10 NAD-SFC NoSubs
10  3 30  89  7   -1.4  0.175 -9.000 -9.000 -999.  176.   340.3  0.0460  0.32  0.42  2.60  121.0  15.0  286.5  2.0   0  0.00  87.  1001.   5 NAD-SFC NoSubs
10  3 30  89  8   31.8  0.181  0.571  0.005  209.  185.   -16.7  0.0510  0.32  0.22  2.10  109.0  15.0  286.6  2.0   0  0.00  87.  1001.   4 NAD-SFC NoSubs
10  3 30  89  9   64.0  0.312  0.949  0.005  477.  418.   -42.4  0.0780  0.32  0.17  3.60  287.0  15.0  288.5  2.0   0  0.00  73.  1002.   4 NAD-SFC NoSubs
10  3 30  89 10   86.8  0.424  1.155  0.005  635.  662.   -78.3  0.0780  0.32  0.15  5.10  290.0  15.0  289.8  2.0   0  0.00  62.  1002.   5 NAD-SFC NoSubs
10  3 30  89 11  107.2  0.428  1.394  0.005  904.  673.   -65.6  0.0780  0.32  0.14  5.10  291.0  15.0  289.8  2.0   0  0.00  58.  1003.   4 NAD-SFC NoSubs
10  3 30  89 12  116.3  0.543  1.522  0.005 1087.  960.  -123.3  0.0780  0.32  0.14  6.70  292.0  15.0  290.2  2.0   0  0.00  44.  1003.   4 NAD-SFC NoSubs
10  3 30  89 13  118.3  0.544  1.595  0.005 1227.  962.  -121.4  0.0780  0.32  0.14  6.70  294.0  15.0  290.4  2.0   0  0.00  40.  1002.   3 NAD-SFC NoSubs
10  3 30  89 14  108.3  0.506  1.595  0.005 1341.  867.  -107.1  0.0780  0.32  0.14  6.20  279.0  15.0  290.2  2.0   0  0.00  42.  1002.   4 NAD-SFC NoSubs
10  3 30  89 15   91.4  0.538  1.528  0.006 1396.  946.  -152.4  0.0780  0.32  0.15  6.70  283.0  15.0  289.9  2.0   0  0.00  45.  1002.   4 NAD-SFC NoSubs
10  3 30  89 16   66.4  0.383  1.386  0.006 1434.  589.   -75.5  0.0780  0.32  0.16  4.60  275.0  15.0  289.2  2.0   0  0.00  55.  1002.   4 NAD-SFC NoSubs
10  3 30  89 17   34.8  0.350  1.123  0.006 1453.  498.  -110.1  0.0310  0.32  0.22  5.10  268.0  15.0  288.2  2.0   0  0.00  61.  1002.   4 NAD-SFC NoSubs
10  3 30  89 18    1.0  0.389  0.340  0.006 1451.  581. -5455.6  0.0780  0.32  0.39  5.10  274.0  15.0  286.9  2.0   0  0.00  66.  1002.   4 NAD-SFC NoSubs
10  3 30  89 19  -37.6  0.370 -9.000 -9.000 -999.  541.   120.8  0.0780  0.32  1.00  5.10  270.0  15.0  286.0  2.0   0  0.00  70.  1003.   4 NAD-SFC NoSubs
10  3 30  89 20  -35.1  0.332 -9.000 -9.000 -999.  461.    93.5  0.0780  0.32  1.00  4.60  277.0  15.0  285.2  2.0   0  0.00  74.  1003.   3 NAD-SFC NoSubs
10  3 30  89 21  -31.2  0.295 -9.000 -9.000 -999.  385.    73.4  0.0780  0.32  1.00  4.10  285.0  15.0  284.8  2.0   0  0.00  77.  1003.   3 NAD-SFC NoSubs
10  3 30  89 22  -27.2  0.257 -9.000 -9.000 -999.  314.    55.8  0.0780  0.32  1.00  3.60  294.0  15.0  284.5  2.0   0  0.00  78.  1003.   3 NAD-SFC NoSubs
10  3 30  89 23  -19.8  0.214 -9.000 -9.000 -999.  238.    44.1  0.1620  0.32  1.00  2.60  307.0  15.0  284.2  2.0   0  0.00  78.  1003.   3 NAD-SFC NoSubs
10  3 30  89 24  -20.7  0.222 -9.000 -9.000 -999.  252.    47.5  0.1880  0.32  1.00  2.60  341.0  15.0  284.1  2.0   0  0.00  79.  1003.   4 NAD-SFC NoSubs
10  3 31  90  1  -26.1  0.269 -9.000 -9.000 -999.  334.    66.4  0.1880  0.32  1.00  3.10  346.0  15.0  283.9  2.0   0  0.00  79.  1003.   5 NAD-SFC NoSubs
10  3 31  90  2  -18.8  0.224 -9.000 -9.000 -999.  255.    53.4  0.1880  0.32  1.00  2.60  353.0  15.0  283.8  2.0   0  0.00  81.  1003.   7 NAD-SFC NoSubs
10  3 31  90  3  -11.6  0.179 -9.000 -9.000 -999.  182.    44.2  0.1880  0.32  1.00  2.10  354.0  15.0  283.4  2.0   0  0.00  83.  1003.   8 NAD-SFC NoSubs
10  3 31  90  4   -2.7  0.087 -9.000 -9.000 -999.   66.    22.1  0.1880  0.32  1.00  1.00  342.0  15.0  283.1  2.0   0  0.25  85.  1004.   8 NAD-SFC NoSubs
10  3 31  90  5   -1.1  0.069 -9.000 -9.000 -999.   44.    27.9  0.1880  0.32  1.00  0.50  337.0  15.0  282.9  2.0   0  0.25  85.  1004.   8 NAD-SFC NoSubs
10  3 31  90  6   -0.8  0.061 -9.000 -9.000 -999.   36.    24.9  0.0380  0.32  1.00  0.50  156.0  15.0  282.8  2.0   0  0.00  85.  1004.   7 NAD-SFC NoSubs
10  3 31  90  7   -0.0  0.031 -9.000 -9.000 -999.   13.    55.9  0.0330  0.32  0.41  0.50  203.0  15.0  282.9  2.0   0  0.00  79.  1004.   7 NAD-SFC NoSubs
10  3 31  90  8   30.0  0.130  0.660  0.005  342.  112.    -6.5  0.0310  0.32  0.22  1.50  258.0  15.0  283.9  2.0   0  0.00  69.  1004.   6 NAD-SFC NoSubs
10  3 31  90  9   14.2  0.122  0.552  0.005  425.  102.   -11.4  0.0310  0.32  0.17  1.50  253.0  15.0  285.1  2.0   0  0.00  58.  1004.  10 NAD-SFC NoSubs
10  3 31  90 10   81.6  0.109  1.183  0.005  726.   86.    -1.4  0.0310  0.32  0.15  1.00  245.0  15.0  286.1  2.0   0  0.00  52.  1003.   6 NAD-SFC NoSubs
10  3 31  90 11  107.4  0.186  1.438  0.005  993.  193.    -5.4  0.0310  0.32  0.14  2.10  241.0  15.0  287.0  2.0   0  0.00  47.  1003.   4 NAD-SFC NoSubs
10  3 31  90 12  112.5  0.280  1.522  0.005 1122.  355.   -17.4  0.0310  0.32  0.14  3.60  241.0  15.0  287.0  2.0   0  0.25  49.  1002.   5 NAD-SFC NoSubs
10  3 31  90 13  112.7  0.222  1.574  0.005 1237.  252.    -8.6  0.0340  0.32  0.14  2.60  218.0  15.0  286.9  2.0   0  0.25  51.  1001.   5 NAD-SFC NoSubs
10  3 31  90 14  108.3  0.150  1.596  0.005 1340.  141.    -2.8  0.0340  0.32  0.14  1.50  222.0  15.0  287.2  2.0   0  0.00  48.  1000.   4 NAD-SFC NoSubs
10  3 31  90 15   91.4  0.147  1.539  0.005 1424.  135.    -3.1  0.0340  0.32  0.15  1.50  215.0  15.0  287.2  2.0   0  0.25  47.  1000.   4 NAD-SFC NoSubs
10  3 31  90 16   66.3  0.142  1.400  0.005 1478.  129.    -3.9  0.0340  0.32  0.16  1.50  215.0  15.0  285.4  2.0   0  0.00  60.  1000.   4 NAD-SFC NoSubs
10  3 31  90 17   34.9  0.099  1.138  0.005 1507.   75.    -2.5  0.0310  0.32  0.21  1.00  254.0  15.0  285.6  2.0   0  0.00  57.  1000.   4 NAD-SFC NoSubs
10  3 31  90 18    1.8  0.142  0.422  0.005 1508.  128.  -143.3  0.1620  0.32  0.39  1.50  327.0  15.0  285.4  2.0   0  0.00  62.  1000.   5 NAD-SFC NoSubs
10  3 31  90 19  -24.4  0.269 -9.000 -9.000 -999.  335.    71.2  0.1880  0.32  1.00  3.10  351.0  15.0  284.5  2.0   0  0.51  71.  1001.   6 NAD-SFC NoSubs
10  3 31  90 20  -20.5  0.271 -9.000 -9.000 -999.  339.    86.8  0.1900  0.32  1.00  3.10   23.0  15.0  283.5  2.0   0  0.51  78.  1002.   8 NAD-SFC NoSubs
10  3 31  90 21  -16.3  0.204 -9.000 -9.000 -999.  223.    46.5  0.1280  0.32  1.00  2.60   41.0  15.0  283.0  2.0   0  0.51  80.  1003.   7 NAD-SFC NoSubs
10  3 31  90 22  -11.2  0.161 -9.000 -9.000 -999.  155.    33.3  0.1280  0.32  1.00  2.10   36.0  15.0  282.8  2.0   0  0.25  81.  1003.   5 NAD-SFC NoSubs
10  3 31  90 23   -1.2  0.074 -9.000 -9.000 -999.   52.    29.3  0.1280  0.32  1.00  0.50   36.0  15.0  282.5  2.0   0  0.25  81.  1004.   5 NAD-SFC NoSubs
10  3 31  90 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  282.1  2.0   0  0.25  82.  1004.   6 NAD-SFC NoSubs
10  4  1  91  1   -2.2  0.075 -9.000 -9.000 -999.   49.    17.2  0.0310  0.32  1.00  1.00  269.0  15.0  281.6  2.0   0  0.00  84.  1005.   4 NAD-SFC NoSubs
10  4  1  91  2  -17.1  0.185 -9.000 -9.000 -999.  190.    32.9  0.0310  0.32  1.00  3.10  269.0  15.0  280.8  2.0   0  0.00  87.  1005.   3 NAD-SFC NoSubs
10  4  1  91  3  -27.8  0.257 -9.000 -9.000 -999.  313.    54.8  0.0780  0.32  1.00  3.60  294.0  15.0  279.8  2.0   0  0.00  90.  1005.   3 NAD-SFC NoSubs
10  4  1  91  4  -27.0  0.258 -9.000 -9.000 -999.  315.    57.4  0.1620  0.32  1.00  3.10  301.0  15.0  279.2  2.0   0  0.00  93.  1006.   4 NAD-SFC NoSubs
10  4  1  91  5  -22.3  0.260 -9.000 -9.000 -999.  318.    70.6  0.1620  0.32  1.00  3.10  309.0  15.0  278.8  2.0   0  0.00  97.  1006.   7 NAD-SFC NoSubs
10  4  1  91  6  -22.3  0.260 -9.000 -9.000 -999.  318.    70.6  0.1620  0.32  1.00  3.10  322.0  15.0  278.8  2.0   0  0.00  97.  1007.   7 NAD-SFC NoSubs
10  4  1  91  7    0.1  0.329  0.026  0.005    6.  453. -8888.0  0.1880  0.32  0.40  3.60  333.0  15.0  279.6  2.0   0  0.00  91.  1008.   7 NAD-SFC NoSubs
10  4  1  91  8   30.4  0.354  0.498  0.005  145.  505.  -130.9  0.1880  0.32  0.22  3.60  352.0  15.0  281.2  2.0   0  0.00  71.  1009.   6 NAD-SFC NoSubs
10  4  1  91  9   64.7  0.286  0.860  0.005  353.  369.   -32.5  0.1880  0.32  0.16  2.60  346.0  15.0  282.6  2.0   0  0.00  61.  1010.   4 NAD-SFC NoSubs
10  4  1  91 10   90.1  0.153  1.128  0.005  574.  156.    -3.6  0.1880  0.32  0.15  1.00  332.0  15.0  284.0  2.0   0  0.00  56.  1010.   4 NAD-SFC NoSubs
10  4  1  91 11  107.7  0.100  1.309  0.005  751.   77.    -1.0  0.1620  0.32  0.14  0.50  305.0  15.0  285.2  2.0   0  0.00  52.  1010.   4 NAD-SFC NoSubs
10  4  1  91 12  116.8  0.133  1.427  0.005  896.  117.    -1.8  0.0780  0.32  0.14  1.00  287.0  15.0  286.4  2.0   0  0.00  47.  1009.   4 NAD-SFC NoSubs
10  4  1  91 13  118.8  0.134  1.508  0.005 1039.  117.    -1.8  0.0780  0.32  0.14  1.00  298.0  15.0  287.2  2.0   0  0.00  43.  1008.   3 NAD-SFC NoSubs
10  4  1  91 14  110.4  0.199  1.534  0.005 1175.  212.    -6.4  0.1620  0.32  0.14  1.50  311.0  15.0  288.1  2.0   0  0.00  39.  1007.   3 NAD-SFC NoSubs
10  4  1  91 15   93.2  0.286  1.491  0.005 1279.  367.   -22.5  0.1620  0.32  0.15  2.60  328.0  15.0  288.6  2.0   0  0.00  36.  1007.   3 NAD-SFC NoSubs
10  4  1  91 16   67.9  0.370  1.366  0.005 1348.  539.   -66.8  0.1880  0.32  0.16  3.60  344.0  15.0  288.8  2.0   0  0.00  34.  1006.   3 NAD-SFC NoSubs
10  4  1  91 17   35.0  0.398  1.103  0.005 1377.  603.  -162.1  0.1880  0.32  0.21  4.10  348.0  15.0  288.4  2.0   0  0.00  36.  1006.   2 NAD-SFC NoSubs
10  4  1  91 18    0.0  0.284  0.097  0.005 1375.  371. -8888.0  0.1900  0.32  0.38  3.10   12.0  15.0  287.8  2.0   0  0.00  44.  1007.   2 NAD-SFC NoSubs
10  4  1  91 19   -1.7 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  286.9  2.0   0  0.00  45.  1007.   2 NAD-SFC NoSubs
10  4  1  91 20   -3.4  0.093 -9.000 -9.000 -999.   68.    21.5  0.1620  0.32  1.00  1.00  320.0  15.0  285.9  2.0   0  0.00  47.  1007.   2 NAD-SFC NoSubs
10  4  1  91 21   -6.6  0.121 -9.000 -9.000 -999.  100.    24.0  0.1620  0.32  1.00  1.50  302.0  15.0  284.8  2.0   0  0.00  52.  1008.   2 NAD-SFC NoSubs
10  4  1  91 22  -12.9  0.169 -9.000 -9.000 -999.  167.    33.8  0.1620  0.32  1.00  2.10  315.0  15.0  283.6  2.0   0  0.00  56.  1008.   2 NAD-SFC NoSubs
10  4  1  91 23   -6.6  0.121 -9.000 -9.000 -999.  101.    23.9  0.1620  0.32  1.00  1.50  318.0  15.0  282.5  2.0   0  0.00  60.  1008.   2 NAD-SFC NoSubs
10  4  1  91 24  -13.0  0.169 -9.000 -9.000 -999.  167.    33.7  0.1620  0.32  1.00  2.10  315.0  15.0  281.6  2.0   0  0.00  64.  1008.   2 NAD-SFC NoSubs
10  4  2  92  1  -32.6  0.302 -9.000 -9.000 -999.  399.    76.0  0.1620  0.32  1.00  3.60  324.0  15.0  280.8  2.0   0  0.00  69.  1008.   3 NAD-SFC NoSubs
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10  4  2  92  2  -29.0  0.268 -9.000 -9.000 -999.  333.    59.7  0.1880  0.32  1.00  3.10  335.0  15.0  280.2  2.0  0  0.00  74.  1008.   3 NAD-SFC NoSubs
10  4  2  92  3  -12.9  0.170 -9.000 -9.000 -999.  172.    34.1  0.1620  0.32  1.00  2.10  329.0  15.0  279.9  2.0  0  0.00  78.  1008.   3 NAD-SFC NoSubs
10  4  2  92  4   -6.5  0.120 -9.000 -9.000 -999.  101.    24.1  0.1620  0.32  1.00  1.50  317.0  15.0  279.6  2.0  0  0.00  81.  1008.   3 NAD-SFC NoSubs
10  4  2  92  5   -3.4  0.093 -9.000 -9.000 -999.   68.    21.5  0.1620  0.32  1.00  1.00  304.0  15.0  279.4  2.0  0  0.00  83.  1008.   3 NAD-SFC NoSubs
10  4  2  92  6   -1.2  0.073 -9.000 -9.000 -999.   47.    29.1  0.0780  0.32  1.00  0.50  282.0  15.0  279.2  2.0  0  0.00  85.  1008.   3 NAD-SFC NoSubs
10  4  2  92  7   16.1 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  0.40  0.00    0.0  15.0  278.9  2.0  0  0.00  86.  1009.   3 NAD-SFC NoSubs
10  4  2  92  8   33.4 -9.000 -9.000 -9.000  215. -999. -99999.0  0.0879  0.32  0.22  0.00    0.0  15.0  280.4  2.0  0  0.00  80.  1009.   3 NAD-SFC NoSubs
10  4  2  92  9   66.0 -9.000 -9.000 -9.000  317. -999. -99999.0  0.0879  0.32  0.16  0.00    0.0  15.0  282.2  2.0  0  0.00  69.  1009.   3 NAD-SFC NoSubs
10  4  2  92 10   91.9 -9.000 -9.000 -9.000  449. -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0  283.9  2.0  0  0.00  60.  1008.   3 NAD-SFC NoSubs
10  4  2  92 11  109.9 -9.000 -9.000 -9.000  618. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  285.4  2.0  0  0.00  54.  1008.   2 NAD-SFC NoSubs
10  4  2  92 12  119.2 -9.000 -9.000 -9.000  806. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  286.8  2.0  0  0.00  49.  1007.   2 NAD-SFC NoSubs
10  4  2  92 13  119.6  0.200  1.478  0.005  971.  215.    -6.0  0.1620  0.32  0.14  1.50  319.0  15.0  287.8  2.0  0  0.00  45.  1007.   2 NAD-SFC NoSubs
10  4  2  92 14  111.0  0.290  1.505  0.006 1103.  375.   -19.8  0.1620  0.32  0.14  2.60  327.0  15.0  288.2  2.0  0  0.00  43.  1006.   2 NAD-SFC NoSubs
10  4  2  92 15   93.6  0.337  1.463  0.007 1202.  468.   -36.5  0.1880  0.32  0.15  3.10  340.0  15.0  288.2  2.0  0  0.00  43.  1006.   3 NAD-SFC NoSubs
10  4  2  92 16   68.3  0.287  1.341  0.008 1269.  371.   -31.1  0.1880  0.32  0.16  2.60  349.0  15.0  288.2  2.0  0  0.00  44.  1006.   3 NAD-SFC NoSubs
10  4  2  92 17   36.2  0.182  1.096  0.009 1304.  191.   -14.9  0.1880  0.32  0.21  1.50  350.0  15.0  288.2  2.0  0  0.00  47.  1005.   3 NAD-SFC NoSubs
10  4  2  92 18    1.5  0.061  0.382  0.009 1305.   52.   -13.6  0.1880  0.32  0.38  0.50  345.0  15.0  288.0  2.0  0  0.00  49.  1005.   3 NAD-SFC NoSubs
10  4  2  92 19   -2.2  0.074 -9.000 -9.000 -999.   49.    17.1  0.0310  0.32  1.00  1.00  264.0  15.0  287.4  2.0  0  0.00  52.  1006.   4 NAD-SFC NoSubs
10  4  2  92 20  -15.1  0.182 -9.000 -9.000 -999.  186.    35.8  0.0780  0.32  1.00  2.60  276.0  15.0  286.6  2.0  0  0.00  58.  1006.   4 NAD-SFC NoSubs
10  4  2  92 21  -30.1  0.295 -9.000 -9.000 -999.  385.    76.4  0.0780  0.32  1.00  4.10  279.0  15.0  285.2  2.0  0  0.00  68.  1006.   4 NAD-SFC NoSubs
10  4  2  92 22  -28.8  0.295 -9.000 -9.000 -999.  385.    80.2  0.0780  0.32  1.00  4.10  289.0  15.0  283.9  2.0  0  0.00  79.  1007.   5 NAD-SFC NoSubs
10  4  2  92 23  -23.6  0.258 -9.000 -9.000 -999.  315.    65.3  0.0780  0.32  1.00  3.60  288.0  15.0  283.8  2.0  0  0.00  83.  1007.   6 NAD-SFC NoSubs
10  4  2  92 24  -18.6  0.221 -9.000 -9.000 -999.  250.    52.0  0.0780  0.32  1.00  3.10  276.0  15.0  283.8  2.0  0  0.00  84.  1006.   7 NAD-SFC NoSubs
10  4  3  93  1  -10.4  0.186 -9.000 -9.000 -999.  192.    55.4  0.0780  0.32  1.00  2.60  290.0  15.0  283.8  2.0  0  0.00  85.  1006.  10 NAD-SFC NoSubs
10  4  3  93  2   -2.1  0.081 -9.000 -9.000 -999.   62.    22.8  0.1620  0.32  1.00  1.00  312.0  15.0  283.8  2.0  0  0.00  85.  1006.  10 NAD-SFC NoSubs
10  4  3  93  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  283.4  2.0  0  0.00  87.  1006.   8 NAD-SFC NoSubs
10  4  3  93  4   -2.0  0.072 -9.000 -9.000 -999.   47.    16.9  0.0330  0.32  1.00  1.00  186.0  15.0  282.8  2.0  0  0.00  89.  1005.   6 NAD-SFC NoSubs
10  4  3  93  5   -2.1  0.074 -9.000 -9.000 -999.   49.    17.2  0.0340  0.32  1.00  1.00  218.0  15.0  282.0  2.0  0  0.00  93.  1005.   5 NAD-SFC NoSubs
10  4  3  93  6   -2.1  0.074 -9.000 -9.000 -999.   48.    17.0  0.0310  0.32  1.00  1.00  265.0  15.0  281.4  2.0  0  0.00  97.  1005.   5 NAD-SFC NoSubs
10  4  3  93  7    1.2  0.121  0.092  0.005   22.   101.  -128.7  0.0780  0.32  0.39  1.50  290.0  15.0  281.0  2.0  0  0.00  98.  1005.   5 NAD-SFC NoSubs
10  4  3  93  8   33.9  0.224  0.605  0.005  233.  255.   -29.7  0.1620  0.32  0.21  2.10  324.0  15.0  282.2  2.0  0  0.00  89.  1005.   5 NAD-SFC NoSubs
10  4  3  93  9   64.5  0.192  0.912  0.005  421.  203.    -9.9  0.1880  0.32  0.16  1.50  333.0  15.0  283.6  2.0  0  0.00  81.  1005.   5 NAD-SFC NoSubs
10  4  3  93 10   91.7  0.149  1.168  0.005  624.  139.    -3.3  0.1620  0.32  0.15  1.00  323.0  15.0  284.8  2.0  0  0.00  73.  1005.   4 NAD-SFC NoSubs
10  4  3  93 11  110.6  0.100  1.349  0.005  795.   77.    -1.0  0.1620  0.32  0.14  0.50  308.0  15.0  285.8  2.0  0  0.00  67.  1004.   3 NAD-SFC NoSubs
10  4  3  93 12  119.6  0.159  1.466  0.005  945.  153.    -3.0  0.1880  0.32  0.14  1.00  334.0  15.0  286.2  2.0  0  0.00  65.  1004.   3 NAD-SFC NoSubs
10  4  3  93 13  119.9  0.206  1.524  0.005 1058.  225.    -6.5  0.1880  0.32  0.14  1.50  342.0  15.0  286.9  2.0  0  0.00  62.  1003.   3 NAD-SFC NoSubs
10  4  3  93 14  111.4  0.205  1.529  0.005 1149.  223.    -6.9  0.1880  0.32  0.14  1.50  347.0  15.0  287.6  2.0  0  0.00  58.  1003.   3 NAD-SFC NoSubs
10  4  3  93 15   94.1  0.295  1.475  0.005 1222.  384.   -24.3  0.1880  0.32  0.15  2.60  355.0  15.0  288.0  2.0  0  0.00  55.  1002.   3 NAD-SFC NoSubs
10  4  3  93 16   68.8  0.330  1.347  0.005 1271.  454.   -46.5  0.1900  0.32  0.16  3.10    3.0  15.0  288.2  2.0  0  0.00  53.  1002.   3 NAD-SFC NoSubs
10  4  3  93 17   36.8  0.316  1.101  0.006 1298.  426.   -76.6  0.1900  0.32  0.21  3.10    3.0  15.0  288.2  2.0  0  0.00  52.  1001.   4 NAD-SFC NoSubs
10  4  3  93 18    2.8  0.244  0.467  0.006 1299.  292.  -465.8  0.1900  0.32  0.38  2.60    6.0  15.0  288.0  2.0  0  0.00  58.  1002.   4 NAD-SFC NoSubs
10  4  3  93 19  -13.3  0.177 -9.000 -9.000 -999.  180.    37.4  0.1900  0.32  1.00  2.10   29.0  15.0  287.0  2.0  0  0.00  61.  1002.   4 NAD-SFC NoSubs
10  4  3  93 20   -1.3  0.075 -9.000 -9.000 -999.   56.    29.7  0.1280  0.32  1.00  0.50   57.0  15.0  286.0  2.0  0  0.00  65.  1002.   4 NAD-SFC NoSubs
10  4  3  93 21   -4.0  0.091 -9.000 -9.000 -999.   66.    16.9  0.0340  0.32  1.00  1.50  231.0  15.0  285.4  2.0  0  0.00  69.  1003.   4 NAD-SFC NoSubs
10  4  3  93 22  -11.6  0.153 -9.000 -9.000 -999.  143.    27.6  0.0310  0.32  1.00  2.60  258.0  15.0  284.8  2.0  0  0.00  69.  1003.   4 NAD-SFC NoSubs
10  4  3  93 23  -30.2  0.295 -9.000 -9.000 -999.  385.    75.9  0.0780  0.32  1.00  4.10  288.0  15.0  283.4  2.0  0  0.00  70.  1003.   4 NAD-SFC NoSubs
10  4  3  93 24  -40.3  0.391 -9.000 -9.000 -999.  586.   132.4  0.1620  0.32  1.00  4.60  303.0  15.0  281.9  2.0  0  0.00  73.  1004.   4 NAD-SFC NoSubs
10  4  4  94  1  -35.9  0.346 -9.000 -9.000 -999.  491.   103.7  0.1620  0.32  1.00  4.10  313.0  15.0  280.8  2.0  0  0.00  76.  1004.   4 NAD-SFC NoSubs
10  4  4  94  2  -27.8  0.268 -9.000 -9.000 -999.  336.    62.0  0.1880  0.32  1.00  3.10  332.0  15.0  280.0  2.0  0  0.00  79.  1004.   4 NAD-SFC NoSubs
10  4  4  94  3   -6.7  0.124 -9.000 -9.000 -999.  121.    25.6  0.1880  0.32  1.00  1.50  352.0  15.0  279.8  2.0  0  0.00  80.  1004.   4 NAD-SFC NoSubs
10  4  4  94  4   -1.3  0.076 -9.000 -9.000 -999.   51.    29.9  0.1280  0.32  1.00  0.50   40.0  15.0  279.5  2.0  0  0.00  80.  1004.   4 NAD-SFC NoSubs
10  4  4  94  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  279.2  2.0  0  0.00  82.  1004.   4 NAD-SFC NoSubs
10  4  4  94  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  279.2  2.0  0  0.00  84.  1004.   3 NAD-SFC NoSubs
10  4  4  94  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  0.38  0.00    0.0  15.0  279.2  2.0  0  0.00  84.  1004.   2 NAD-SFC NoSubs
10  4  4  94  8   34.4 -9.000 -9.000 -9.000  174. -999. -99999.0  0.0879  0.32  0.21  0.00    0.0  15.0  280.4  2.0  0  0.00  76.  1004.   2 NAD-SFC NoSubs
10  4  4  94  9   67.1 -9.000 -9.000 -9.000  326. -999. -99999.0  0.0879  0.32  0.16  0.00    0.0  15.0  281.9  2.0  0  0.00  68.  1004.   2 NAD-SFC NoSubs
10  4  4  94 10   93.1 -9.000 -9.000 -9.000  503. -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0  283.4  2.0  0  0.00  62.  1004.   2 NAD-SFC NoSubs
10  4  4  94 11  111.1 -9.000 -9.000 -9.000  679. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  285.0  2.0  0  0.00  52.  1004.   2 NAD-SFC NoSubs
10  4  4  94 12  120.3 -9.000 -9.000 -9.000  813. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  286.5  2.0  0  0.00  43.  1003.   3 NAD-SFC NoSubs
10  4  4  94 13  120.6 -9.000 -9.000 -9.000  929. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  287.8  2.0  0  0.00  39.  1002.   3 NAD-SFC NoSubs
10  4  4  94 14  112.1  0.080  1.494  0.005 1065.   55.    -1.0  0.0510  0.32  0.14  0.50  102.0  15.0  288.8  2.0  0  0.00  38.  1001.   3 NAD-SFC NoSubs
10  4  4  94 15   94.9  0.119  1.468  0.006 1190.   98.    -1.6  0.0460  0.32  0.15  1.00  148.0  15.0  289.5  2.0  0  0.00  39.  1000.   3 NAD-SFC NoSubs
10  4  4  94 16   68.9  0.145  1.348  0.007 1271.  132.    -3.9  0.1620  0.32  0.16  1.00  306.0  15.0  289.4  2.0  0  0.00  45.  1000.   4 NAD-SFC NoSubs
10  4  4  94 17   36.4  0.331  1.100  0.007 1306.  456.   -88.5  0.1280  0.32  0.21  3.60   34.0  15.0  287.8  2.0  0  0.25  61.  1000.   5 NAD-SFC NoSubs
10  4  4  94 18    3.5  0.351  0.502  0.007 1304.  500. -1120.3  0.0760  0.32  0.37  4.60   66.0  15.0  286.1  2.0  0  0.51  74.  1000.   5 NAD-SFC NoSubs
10  4  4  94 19  -24.5  0.295 -9.000 -9.000 -999.  386.    93.0  0.0760  0.32  1.00  4.10   86.0  15.0  285.4  2.0  0  0.51  79.  1000.   7 NAD-SFC NoSubs
10  4  4  94 20  -26.3  0.272 -9.000 -9.000 -999.  341.    68.4  0.0510  0.32  1.00  4.10  115.0  15.0  285.1  2.0  0  0.25  81.  1000.   5 NAD-SFC NoSubs
10  4  4  94 21  -25.8  0.267 -9.000 -9.000 -999.  331.    65.9  0.0460  0.32  1.00  4.10  131.0  15.0  285.2  2.0  0  0.00  80.  1000.   5 NAD-SFC NoSubs
10  4  4  94 22  -26.2  0.258 -9.000 -9.000 -999.  314.    58.4  0.0380  0.32  1.00  4.10  154.0  15.0  285.2  2.0  0  0.00  79.  1000.   4 NAD-SFC NoSubs
10  4  4  94 23  -29.5  0.291 -9.000 -9.000 -999.  376.    74.3  0.0380  0.32  1.00  4.60  150.0  15.0  285.1  2.0  0  0.00  80.  1000.   4 NAD-SFC NoSubs
10  4  4  94 24  -31.8  0.301 -9.000 -9.000 -999.  396.    76.3  0.0460  0.32  1.00  4.60  144.0  15.0  284.6  2.0  0  0.00  81.  1000.   3 NAD-SFC NoSubs
10  4  5  95  1  -28.2  0.267 -9.000 -9.000 -999.  331.    59.9  0.0460  0.32  1.00  4.10  145.0  15.0  284.2  2.0  0  0.00  81.  1000.   3 NAD-SFC NoSubs
10  4  5  95  2  -28.2  0.267 -9.000 -9.000 -999.  330.    59.9  0.0460  0.32  1.00  4.10  131.0  15.0  284.0  2.0  0  0.00  81.  1000.   3 NAD-SFC NoSubs
10  4  5  95  3  -23.7  0.233 -9.000 -9.000 -999.  270.    47.3  0.0460  0.32  1.00  3.60  132.0  15.0  283.9  2.0  0  0.00  81.  1000.   4 NAD-SFC NoSubs
10  4  5  95  4   -8.5  0.133 -9.000 -9.000 -999.  121.    24.6  0.0510  0.32  1.00  2.10  114.0  15.0  283.8  2.0  0  0.00  81.  1000.   4 NAD-SFC NoSubs
10  4  5  95  5   -6.3  0.124 -9.000 -9.000 -999.  105.    27.2  0.1880  0.32  1.00  1.50  351.0  15.0  283.5  2.0  0  0.51  83.  1000.   6 NAD-SFC NoSubs
10  4  5  95  6  -34.1  0.333 -9.000 -9.000 -999.  460.    96.3  0.0780  0.32  1.00  4.60  289.0  15.0  282.8  2.0  0  0.76  93.  1002.   4 NAD-SFC NoSubs
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10	4	5	95	7	2.3	0.452	0.121	0.005	27.	729.	-3560.8	0.1620	0.32	0.37	5.10	305.0	15.0	283.1	2.0	0	0.00	89.	1003.	4	NAD-SFC NoSubs
10	4	5	95	8	36.6	0.562	0.558	0.005	170.	1011.	-434.9	0.1620	0.32	0.21	6.20	320.0	15.0	284.9	2.0	0	0.00	72.	1004.	4	NAD-SFC NoSubs
10	4	5	95	9	15.3	0.460	0.452	0.005	216.	758.	-570.1	0.1620	0.32	0.16	5.10	318.0	15.0	285.8	2.0	0	0.00	65.	1004.	10	NAD-SFC NoSubs
10	4	5	95	10	21.8	0.435	0.563	0.005	293.	689.	-337.4	0.1880	0.32	0.15	4.60	344.0	15.0	286.2	2.0	0	0.00	61.	1005.	10	NAD-SFC NoSubs
10	4	5	95	11	26.3	0.394	0.645	0.005	365.	595.	-208.3	0.1880	0.32	0.14	4.10	355.0	15.0	286.6	2.0	0	0.00	58.	1005.	10	NAD-SFC NoSubs
10	4	5	95	12	115.4	0.342	1.236	0.005	587.	483.	-31.2	0.1880	0.32	0.14	3.10	352.0	15.0	287.5	2.0	0	0.00	52.	1005.	5	NAD-SFC NoSubs
10	4	5	95	13	119.5	0.343	1.464	0.005	942.	483.	-30.4	0.1880	0.32	0.14	3.10	343.0	15.0	288.2	2.0	0	0.00	47.	1005.	4	NAD-SFC NoSubs
10	4	5	95	14	111.1	0.383	1.521	0.005	1137.	568.	-45.2	0.1880	0.32	0.14	3.60	345.0	15.0	288.9	2.0	0	0.00	43.	1005.	4	NAD-SFC NoSubs
10	4	5	95	15	94.2	0.419	1.494	0.005	1270.	651.	-70.2	0.1880	0.32	0.15	4.10	336.0	15.0	289.2	2.0	0	0.00	41.	1005.	4	NAD-SFC NoSubs
10	4	5	95	16	69.9	0.454	1.384	0.005	1359.	734.	-120.2	0.1880	0.32	0.16	4.60	350.0	15.0	289.5	2.0	0	0.00	40.	1005.	3	NAD-SFC NoSubs
10	4	5	95	17	37.8	0.442	1.139	0.005	1401.	706.	-205.0	0.1880	0.32	0.21	4.60	352.0	15.0	289.4	2.0	0	0.00	41.	1005.	3	NAD-SFC NoSubs
10	4	5	95	18	2.9	0.333	0.485	0.005	1402.	469.	-1131.0	0.1880	0.32	0.37	3.60	339.0	15.0	288.8	2.0	0	0.00	49.	1006.	3	NAD-SFC NoSubs
10	4	5	95	19	-37.9	0.359	-9.000	-9.000	-999.	517.	110.0	0.1880	0.32	1.00	4.10	342.0	15.0	287.2	2.0	0	0.00	55.	1007.	3	NAD-SFC NoSubs
10	4	5	95	20	-38.1	0.359	-9.000	-9.000	-999.	517.	109.4	0.1880	0.32	1.00	4.10	354.0	15.0	285.8	2.0	0	0.00	61.	1008.	3	NAD-SFC NoSubs
10	4	5	95	21	-38.3	0.360	-9.000	-9.000	-999.	519.	109.6	0.1900	0.32	1.00	4.10	14.0	15.0	284.8	2.0	0	0.00	62.	1008.	3	NAD-SFC NoSubs
10	4	5	95	22	-33.6	0.315	-9.000	-9.000	-999.	425.	83.4	0.1900	0.32	1.00	3.60	29.0	15.0	284.1	2.0	0	0.00	61.	1009.	3	NAD-SFC NoSubs
10	4	5	95	23	-11.7	0.160	-9.000	-9.000	-999.	172.	31.7	0.1280	0.32	1.00	2.10	31.0	15.0	283.4	2.0	0	0.00	61.	1010.	3	NAD-SFC NoSubs
10	4	5	95	24	-1.5	0.080	-9.000	-9.000	-999.	58.	31.2	0.1880	0.32	1.00	0.50	334.0	15.0	282.8	2.0	0	0.00	62.	1010.	3	NAD-SFC NoSubs
10	4	6	96	1	-5.1	0.104	-9.000	-9.000	-999.	81.	19.9	0.0780	0.32	1.00	1.50	276.0	15.0	282.2	2.0	0	0.00	63.	1010.	3	NAD-SFC NoSubs
10	4	6	96	2	-15.5	0.181	-9.000	-9.000	-999.	185.	34.7	0.0780	0.32	1.00	2.60	282.0	15.0	281.6	2.0	0	0.00	67.	1011.	3	NAD-SFC NoSubs
10	4	6	96	3	-15.5	0.181	-9.000	-9.000	-999.	185.	34.6	0.0780	0.32	1.00	2.60	281.0	15.0	281.0	2.0	0	0.00	70.	1011.	3	NAD-SFC NoSubs
10	4	6	96	4	-10.0	0.144	-9.000	-9.000	-999.	131.	27.0	0.0780	0.32	1.00	2.10	274.0	15.0	280.5	2.0	0	0.00	73.	1011.	3	NAD-SFC NoSubs
10	4	6	96	5	-10.0	0.144	-9.000	-9.000	-999.	131.	27.0	0.0780	0.32	1.00	2.10	271.0	15.0	280.0	2.0	0	0.00	75.	1011.	3	NAD-SFC NoSubs
10	4	6	96	6	-12.0	0.153	-9.000	-9.000	-999.	143.	26.7	0.0310	0.32	1.00	2.60	267.0	15.0	279.6	2.0	0	0.00	77.	1012.	3	NAD-SFC NoSubs
10	4	6	96	7	1.9	0.203	0.102	0.005	21.	219.	-405.5	0.0780	0.32	0.37	2.60	295.0	15.0	279.8	2.0	0	0.00	75.	1013.	3	NAD-SFC NoSubs
10	4	6	96	8	36.2	0.273	0.576	0.005	190.	343.	-50.9	0.1880	0.32	0.21	2.60	331.0	15.0	281.9	2.0	0	0.00	60.	1013.	2	NAD-SFC NoSubs
10	4	6	96	9	68.9	0.188	0.860	0.005	334.	198.	-8.7	0.1620	0.32	0.16	1.50	328.0	15.0	283.5	2.0	0	0.00	53.	1014.	2	NAD-SFC NoSubs
10	4	6	96	10	94.8	0.150	1.102	0.005	510.	139.	-3.2	0.1620	0.32	0.15	1.00	311.0	15.0	285.1	2.0	0	0.00	46.	1014.	2	NAD-SFC NoSubs
10	4	6	96	11	112.7	0.153	1.293	0.005	694.	144.	-2.9	0.1620	0.32	0.14	1.00	315.0	15.0	286.8	2.0	0	0.00	41.	1013.	2	NAD-SFC NoSubs
10	4	6	96	12	121.8	0.155	1.424	0.005	856.	146.	-2.7	0.1620	0.32	0.14	1.00	314.0	15.0	288.2	2.0	0	0.00	36.	1012.	2	NAD-SFC NoSubs
10	4	6	96	13	122.0	0.200	1.503	0.005	1005.	215.	-5.9	0.1620	0.32	0.14	1.50	318.0	15.0	289.2	2.0	0	0.00	34.	1011.	2	NAD-SFC NoSubs
10	4	6	96	14	113.3	0.258	1.546	0.005	1177.	314.	-13.6	0.1880	0.32	0.14	2.10	334.0	15.0	290.0	2.0	0	0.00	33.	1011.	2	NAD-SFC NoSubs
10	4	6	96	15	95.8	0.337	1.514	0.007	1305.	470.	-36.0	0.1880	0.32	0.15	3.10	344.0	15.0	290.4	2.0	0	0.00	33.	1010.	2	NAD-SFC NoSubs
10	4	6	96	16	70.3	0.370	1.384	0.007	1360.	541.	-65.1	0.1880	0.32	0.16	3.60	342.0	15.0	290.6	2.0	0	0.00	35.	1010.	2	NAD-SFC NoSubs
10	4	6	96	17	37.8	0.316	1.131	0.007	1377.	427.	-74.8	0.1880	0.32	0.21	3.10	339.0	15.0	290.5	2.0	0	0.00	36.	1010.	2	NAD-SFC NoSubs
10	4	6	96	18	2.6	0.144	0.464	0.007	1378.	157.	-103.1	0.1620	0.32	0.37	1.50	329.0	15.0	290.2	2.0	0	0.00	42.	1010.	2	NAD-SFC NoSubs
10	4	6	96	19	-3.3	0.093	-9.000	-9.000	-999.	69.	21.4	0.1620	0.32	1.00	1.00	304.0	15.0	289.2	2.0	0	0.00	45.	1010.	2	NAD-SFC NoSubs
10	4	6	96	20	-1.0	0.067	-9.000	-9.000	-999.	41.	26.7	0.0310	0.32	1.00	0.50	258.0	15.0	288.2	2.0	0	0.00	50.	1011.	2	NAD-SFC NoSubs
10	4	6	96	21	-2.8	0.084	-9.000	-9.000	-999.	59.	19.4	0.0780	0.32	1.00	1.00	270.0	15.0	287.1	2.0	0	0.00	54.	1011.	2	NAD-SFC NoSubs
10	4	6	96	22	-5.2	0.105	-9.000	-9.000	-999.	81.	19.9	0.0780	0.32	1.00	1.50	282.0	15.0	286.1	2.0	0	0.00	58.	1011.	2	NAD-SFC NoSubs
10	4	6	96	23	-6.6	0.121	-9.000	-9.000	-999.	100.	24.0	0.1620	0.32	1.00	1.50	303.0	15.0	285.2	2.0	0	0.00	63.	1011.	2	NAD-SFC NoSubs
10	4	6	96	24	-6.6	0.121	-9.000	-9.000	-999.	100.	24.0	0.1620	0.32	1.00	1.50	326.0	15.0	284.2	2.0	0	0.00	68.	1011.	2	NAD-SFC NoSubs
10	4	7	97	1	-1.5	0.081	-9.000	-9.000	-999.	55.	31.4	0.1880	0.32	1.00	0.50	343.0	15.0	283.5	2.0	0	0.00	73.	1011.	2	NAD-SFC NoSubs
10	4	7	97	2	-1.0	0.067	-9.000	-9.000	-999.	42.	26.9	0.0310	0.32	1.00	0.50	243.0	15.0	282.8	2.0	0	0.00	76.	1011.	2	NAD-SFC NoSubs
10	4	7	97	3	-4.2	0.091	-9.000	-9.000	-999.	66.	16.4	0.0310	0.32	1.00	1.50	253.0	15.0	282.4	2.0	0	0.00	78.	1011.	2	NAD-SFC NoSubs
10	4	7	97	4	-12.1	0.152	-9.000	-9.000	-999.	143.	26.5	0.0310	0.32	1.00	2.60	264.0	15.0	282.2	2.0	0	0.00	78.	1011.	2	NAD-SFC NoSubs
10	4	7	97	5	-17.4	0.184	-9.000	-9.000	-999.	190.	32.5	0.0310	0.32	1.00	3.10	267.0	15.0	281.9	2.0	0	0.00	78.	1011.	2	NAD-SFC NoSubs
10	4	7	97	6	-22.7	0.219	-9.000	-9.000	-999.	246.	41.9	0.0780	0.32	1.00	3.10	270.0	15.0	281.5	2.0	0	0.00	77.	1012.	2	NAD-SFC NoSubs
10	4	7	97	7	1.8	0.202	0.107	0.008	24.	219.	-415.1	0.0780	0.32	0.36	2.60	280.0	15.0	281.8	2.0	0	0.00	75.	1012.	2	NAD-SFC NoSubs
10	4	7	97	8	37.3	0.306	0.528	0.007	142.	406.	-69.3	0.1620	0.32	0.21	3.10	314.0	15.0	283.9	2.0	0	0.00	61.	1012.	2	NAD-SFC NoSubs
10	4	7	97	9	70.0	0.208	0.803	0.008	266.	232.	-11.6	0.0780	0.32	0.16	2.10	288.0	15.0	286.0	2.0	0	0.00	52.	1012.	2	NAD-SFC NoSubs
10	4	7	97	10	95.9	0.170	1.012	0.007	389.	169.	-4.6	0.0780	0.32	0.15	1.50	288.0	15.0	287.9	2.0	0	0.00	45.	1011.	2	NAD-SFC NoSubs
10	4	7	97	11	113.9	0.101	1.187	0.007	529.	78.	-1.0	0.1620	0.32	0.14	0.50	319.0	15.0	289.9	2.0	0	0.00	39.	1011.	2	NAD-SFC NoSubs
10	4	7	97	12	123.0	0.105	1.304	0.007	649.	82.	-1.0	0.1880	0.32	0.14	0.50	337.0	15.0	291.6	2.0	0	0.00	36.	1010.	2	NAD-SFC NoSubs
10	4	7	97	13	123.3	0.160	1.374	0.008	758.	153.	-3.0	0.1880	0.32	0.14	1.00	346.0	15.0	292.9	2.0	0	0.00	34.	1009.	2	NAD-SFC NoSubs
10	4	7	97	14	114.7	0.205	1.393	0.008	848.	223.	-6.8	0.1880	0.32	0.14	1.50	347.0	15.0	293.9	2.0	0	0.00	32.	1008.	2	NAD-SFC NoSubs
10	4	7	97	15	97.3	0.202	1.354	0.008	918.	217.	-7.6	0.1880	0.32	0.15	1.50	351.0	15.0	294.6	2.0	0	0.00	31.	1007.	2	NAD-SFC NoSubs
10	4	7	97	16	71.6	-9.000	-9.000	-9.000	966.	-999.	-99999.0	0.0879	0.32	0.16	0.00	0.0	15.0	294.8	2.0	0	0.00	31.	1007.	2	NAD-SFC NoSubs
10	4	7	97	17	39.2	0.317	1.026	0.008	988.	428.	-73.0	0.1900	0.32	0.21	3.10	9.0	15.0	294.4	2.0	0	0.00	36.	1006.	2	NAD-SFC NoSubs
10	4	7	97	18	3.8	0.334	0.470	0.008	988.	464.	-893.2	0.1900	0.32	0.36	3.60	23.0	15.0	293.5	2.0	0	0.00	42.	1007.	2	NAD-SFC NoSubs
10	4	7	97	19	-34.8	0.328	-9.000	-9.000	-999.	450.	90.7	0.1280	0.32	1.00	4.10	30.0	15.0	292.2	2.0	0	0.00	44.	1006.	2	NAD-SFC NoSubs
10	4	7	97	20	-26.0	0.244	-9.000	-9.000	-999.	293.	50.2	0.1280	0.32	1.00	3.10	44.0	15.0	291.1	2.0	0	0.00	47.	1006.	2	NAD-SFC NoSubs
10	4	7	97	21	-3.1	0.090	-9.000	-9.000	-999.	90.	20.7	0.1280	0.32	1.00	1.00	38.0	15.0	289.9	2.0	0	0.00	51.	1006.	2	NAD-SFC NoSubs
10	4	7	97	22	-1.0	0.067	-9.000	-9.000	-999.	42.	26.7	0.0310	0.32	1.00	0.50	243.0	15.0	288.4	2.0	0	0.00	57.	1007.	2	NAD-SFC NoSubs
10	4	7	97	23	-5.2	0.104	-9.000	-9.000	-999.	81.	19.9	0.0780	0.32	1.00	1.50	282.0	15.0	287.1	2.0	0	0.00	63.	1007.	2	NAD-SFC NoSubs
10	4	7	97	24	-6.5	0.120	-9.000	-9.000	-999.	100.	24.0	0.1620	0.32	1.00	1.50	315.0	15.0	286.1	2.0	0	0.00	66.	1006.	2	NAD-SFC NoSubs
10	4	8	98	1	-3.4	0.093	-9.000	-9.000	-999.	68.	21.5	0.1620	0.32	1.00	1.00	329.0	15.0	285.2	2.0	0	0.00	67.	1006.	2	NAD-SFC NoSubs
10	4	8	98	2	-3.4	0.093	-9.000	-9.000	-999.	68.	21.5	0.1620	0.32	1.00	1.00	309.0	15.0	284.8	2.0	0	0.00	69.	1006.	2	NAD-SFC NoSubs
10	4	8	98	3	-5.2	0.105	-9.000	-9.000	-999.	81.	19.8	0.0780	0.32	1.00	1.50	278.0	15.0	284.2	2.0	0	0.00	69.	1005.	2	NAD-SFC NoSubs
10	4	8	98	4	-15.6	0.181	-9.000	-9.000	-999.	185.	34.3	0.0780	0.32	1.00	2.60	276.0	15.0	283.9	2.0	0	0.00	72.	1005.	2	NAD-SFC NoSubs
10	4	8	98	5	-22.4	0.219	-9.000	-9.000	-999.	246.	42.0	0.0780	0.32	1.00	3.10	289.0	15.0	283.2	2.0	0	0.00	75.	1005.	2	NAD-SFC NoSubs
10	4	8	98	6	-15.6	0.181	-9.000	-9.000	-999.	185.	34.2	0.0780	0.32	1.00	2.60	288.0	15.0	282.8	2.0	0	0.00	75.	1006.	2	NAD-SFC NoSubs
10	4	8	98	7	2.7	0.194	0.126	0.008	26.	205.	-240.3	0.1620	0.32	0.36	2.10	300.0	15.0	283.0	2.0	0	0.00	73.	1006.	2	NAD-SFC NoSubs
10	4	8	98	8	38.3	0.233	0.505	0.007	121.	270.	-29.6	0.1880	0.32	0.20	2.10	337.0	15.0	285.1	2.0	0	0.00	62.	1006.	2	NAD-SFC NoSubs
10	4	8	98	9	70.9	0.098	0.745	0.008	209.	88.	-1.2	0.1880	0.32	0.16	0.50	344.0	15.0	287.1	2.0	0	0.00	57.	1005.	2	NAD-SFC NoSubs
10	4	8	98	10	96.8	-9.000	-9.000	-9.000	331.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	289.2	2.0	0	0.00	49.	1005.	2	NAD-SFC NoSubs
10	4	8	98	11	114.7	0.087	1.164	0.006	492.	62.	-1.0	0.0780	0.32	0.14	0.50	290.0	15.0	291.1	2.0	0	0.00	45.	1004.	2	NAD-SFC NoSubs

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10  4  8  98 12  123.8  0.155  1.324  0.006  671.  147.    -2.7  0.1620  0.32  0.14  1.00  303.0  15.0  292.5  2.0  0  0.00  42.  1003.  2 NAD-SFC NoSubs
10  4  8  98 13  124.0  0.201  1.398  0.006  787.  216.    -5.8  0.1620  0.32  0.14  1.50  312.0  15.0  293.8  2.0  0  0.00  39.  1002.  2 NAD-SFC NoSubs
10  4  8  98 14  115.4  0.251  1.418  0.006  883.  301.   -12.2  0.1620  0.32  0.14  2.10  322.0  15.0  294.8  2.0  0  0.00  36.  1001.  2 NAD-SFC NoSubs
10  4  8  98 15   97.9  0.287  1.379  0.005  956.  369.   -21.6  0.1620  0.32  0.15  2.60  327.0  15.0  295.2  2.0  0  0.00  35.  1000.  2 NAD-SFC NoSubs
10  4  8  98 16   72.2  0.330  1.269  0.005 1011.  455.   -44.4  0.1880  0.32  0.16  3.10  337.0  15.0  295.2  2.0  0  0.00  35.  1000.  2 NAD-SFC NoSubs
10  4  8  98 17   39.8  0.317  1.051  0.005 1040.  428.   -71.2  0.1880  0.32  0.21  3.10  354.0  15.0  294.9  2.0  0  0.00  43.  1000.  2 NAD-SFC NoSubs
10  4  8  98 18    4.4  0.334  0.503  0.005 1042.  464.  -765.0  0.1880  0.32  0.36  3.60  347.0  15.0  294.2  2.0  0  0.00  48.  1000.  2 NAD-SFC NoSubs
10  4  8  98 19  -37.9  0.359 -9.000 -9.000 -999.  517.   109.2  0.1880  0.32  1.00  4.10  342.0  15.0  292.8  2.0  0  0.00  52.  1000.  2 NAD-SFC NoSubs
10  4  8  98 20  -38.1  0.359 -9.000 -9.000 -999.  517.   108.4  0.1880  0.32  1.00  4.10  330.0  15.0  290.8  2.0  0  0.00  60.  1000.  2 NAD-SFC NoSubs
10  4  8  98 21  -36.9  0.346 -9.000 -9.000 -999.  489.   100.2  0.1620  0.32  1.00  4.10  328.0  15.0  289.1  2.0  0  0.00  67.  1000.  2 NAD-SFC NoSubs
10  4  8  98 22  -31.6  0.302 -9.000 -9.000 -999.  400.    78.1  0.1620  0.32  1.00  3.60  329.0  15.0  288.1  2.0  0  0.00  72.  1001.  3 NAD-SFC NoSubs
10  4  8  98 23  -27.0  0.258 -9.000 -9.000 -999.  316.    56.9  0.1620  0.32  1.00  3.10  327.0  15.0  287.5  2.0  0  0.00  75.  1001.  3 NAD-SFC NoSubs
10  4  8  98 24  -31.7  0.302 -9.000 -9.000 -999.  399.    77.7  0.1620  0.32  1.00  3.60  318.0  15.0  286.8  2.0  0  0.00  79.  1001.  3 NAD-SFC NoSubs
10  4  9  99  1  -19.7  0.214 -9.000 -9.000 -999.  241.    44.3  0.1620  0.32  1.00  2.60  318.0  15.0  286.0  2.0  0  0.00  82.  1001.  3 NAD-SFC NoSubs
10  4  9  99  2  -12.7  0.170 -9.000 -9.000 -999.  168.    34.5  0.1620  0.32  1.00  2.10  323.0  15.0  285.4  2.0  0  0.00  83.  1001.  3 NAD-SFC NoSubs
10  4  9  99  3   -3.3  0.092 -9.000 -9.000 -999.   69.    21.4  0.1620  0.32  1.00  1.00  324.0  15.0  284.8  2.0  0  0.00  83.  1001.  3 NAD-SFC NoSubs
10  4  9  99  4   -3.3  0.092 -9.000 -9.000 -999.   67.    21.4  0.1620  0.32  1.00  1.00  311.0  15.0  284.2  2.0  0  0.00  83.  1001.  3 NAD-SFC NoSubs
10  4  9  99  5   -2.7  0.084 -9.000 -9.000 -999.   58.    19.3  0.0780  0.32  1.00  1.00  288.0  15.0  283.8  2.0  0  0.00  83.  1001.  3 NAD-SFC NoSubs
10  4  9  99  6   -2.7  0.084 -9.000 -9.000 -999.   58.    19.4  0.0780  0.32  1.00  1.00  293.0  15.0  283.2  2.0  0  0.00  83.  1001.  3 NAD-SFC NoSubs
10  4  9  99  7    4.5  0.149  0.188  0.008   52.  138.   -64.9  0.1620  0.32  0.35  1.50  312.0  15.0  283.5  2.0  0  0.00  79.  1002.  3 NAD-SFC NoSubs
10  4  9  99  8   39.7  0.183  0.643  0.008  239.  189.   -13.9  0.1880  0.32  0.20  1.50  345.0  15.0  284.9  2.0  0  0.00  68.  1002.  3 NAD-SFC NoSubs
10  4  9  99  9   71.9  0.095  0.872  0.006  329.   73.    -1.1  0.1620  0.32  0.16  0.50  312.0  15.0  286.5  2.0  0  0.00  61.  1002.  3 NAD-SFC NoSubs
10  4  9  99 10   97.4  0.086  1.070  0.006  450.   60.    -1.0  0.0780  0.32  0.15  0.50  297.0  15.0  288.1  2.0  0  0.00  56.  1001.  3 NAD-SFC NoSubs
10  4  9  99 11  115.0  0.101  1.247  0.005  602.   77.    -1.0  0.1620  0.32  0.14  0.50  303.0  15.0  289.5  2.0  0  0.00  52.  1000.  3 NAD-SFC NoSubs
10  4  9  99 12  123.9  0.102  1.372  0.005  743.   78.    -1.0  0.1620  0.32  0.14  0.50  302.0  15.0  291.0  2.0  0  0.00  49.   999.  3 NAD-SFC NoSubs
10  4  9  99 13  124.1  0.155  1.446  0.006  869.  147.    -2.7  0.1620  0.32  0.14  1.00  308.0  15.0  292.4  2.0  0  0.00  45.   998.  3 NAD-SFC NoSubs
10  4  9  99 14  115.4  0.199  1.465  0.007  971.  214.    -6.1  0.1620  0.32  0.14  1.50  310.0  15.0  293.2  2.0  0  0.00  42.   998.  3 NAD-SFC NoSubs
10  4  9  99 15   98.1  0.196  1.423  0.007 1045.  208.    -6.8  0.1620  0.32  0.15  1.50  324.0  15.0  293.9  2.0  0  0.00  41.   997.  3 NAD-SFC NoSubs
10  4  9  99 16   72.8  0.240  1.309  0.007 1097.  282.   -16.8  0.1620  0.32  0.16  2.10  326.0  15.0  294.2  2.0  0  0.00  40.   997.  3 NAD-SFC NoSubs
10  4  9  99 17   40.7  0.234  1.088  0.008 1124.  272.   -28.1  0.1880  0.32  0.20  2.10  338.0  15.0  294.1  2.0  0  0.00  40.   997.  3 NAD-SFC NoSubs
10  4  9  99 18    5.7  0.206  0.564  0.008 1127.  224.  -137.1  0.1880  0.32  0.36  2.10  347.0  15.0  293.8  2.0  0  0.00  46.   997.  3 NAD-SFC NoSubs
10  4  9  99 19  -26.4  0.257 -9.000 -9.000 -999.  313.    57.5  0.0780  0.32  1.00  3.60  275.0  15.0  292.5  2.0  0  0.00  51.   998.  3 NAD-SFC NoSubs
10  4  9  99 20  -43.3  0.415 -9.000 -9.000 -999.  642.   147.4  0.0310  0.32  1.00  6.70  261.0  15.0  288.0  2.0  0  0.00  67.   999.  3 NAD-SFC NoSubs
10  4  9  99 21  -32.8  0.313 -9.000 -9.000 -999.  426.    83.0  0.0310  0.32  1.00  5.10  265.0  15.0  286.1  2.0  0  0.00  70.  1000.  3 NAD-SFC NoSubs
10  4  9  99 22  -29.6  0.281 -9.000 -9.000 -999.  358.    66.6  0.0310  0.32  1.00  4.60  256.0  15.0  285.0  2.0  0  0.00  73.  1001.  3 NAD-SFC NoSubs
10  4  9  99 23  -17.0  0.185 -9.000 -9.000 -999.  195.    33.2  0.0310  0.32  1.00  3.10  266.0  15.0  284.2  2.0  0  0.00  75.  1001.  3 NAD-SFC NoSubs
10  4  9  99 24   -6.4  0.120 -9.000 -9.000 -999.  101.    24.2  0.1620  0.32  1.00  1.50  310.0  15.0  283.8  2.0  0  0.00  76.  1002.  3 NAD-SFC NoSubs
10  4 10 100  1   -6.7  0.125 -9.000 -9.000 -999.  106.    25.8  0.1900  0.32  1.00  1.50   20.0  15.0  283.4  2.0  0  0.00  77.  1002.  4 NAD-SFC NoSubs
10  4 10 100  2  -17.9  0.202 -9.000 -9.000 -999.  219.    41.5  0.1280  0.32  1.00  2.60   44.0  15.0  283.0  2.0  0  0.00  79.  1002.  4 NAD-SFC NoSubs
10  4 10 100  3  -11.4  0.161 -9.000 -9.000 -999.  155.    32.3  0.1280  0.32  1.00  2.10   48.0  15.0  282.5  2.0  0  0.00  81.  1002.  4 NAD-SFC NoSubs
10  4 10 100  4   -5.8  0.114 -9.000 -9.000 -999.   93.    22.9  0.1280  0.32  1.00  1.50   48.0  15.0  282.0  2.0  0  0.00  82.  1002.  4 NAD-SFC NoSubs
10  4 10 100  5   -2.6  0.083 -9.000 -9.000 -999.   57.    19.2  0.0760  0.32  1.00  1.00   64.0  15.0  281.6  2.0  0  0.00  83.  1003.  4 NAD-SFC NoSubs
10  4 10 100  6   -1.3  0.077 -9.000 -9.000 -999.   51.    30.3  0.1280  0.32  1.00  0.50   58.0  15.0  281.4  2.0  0  0.00  83.  1003.  3 NAD-SFC NoSubs
10  4 10 100  7    5.1  0.096  0.236  0.009   92.   71.   -15.4  0.0780  0.32  0.34  1.00  274.0  15.0  282.0  2.0  0  0.00  77.  1004.  3 NAD-SFC NoSubs
10  4 10 100  8   40.4  0.076  0.622  0.008  213.   50.    -1.0  0.0780  0.32  0.20  0.50  276.0  15.0  284.0  2.0  0  0.00  66.  1005.  3 NAD-SFC NoSubs
10  4 10 100  9   72.2 -9.000 -9.000 -9.000  320. -999. -99999.0  0.0879  0.32  0.16  0.00    0.0  15.0  285.9  2.0  0  0.00  57.  1005.  2 NAD-SFC NoSubs
10  4 10 100 10   97.9 -9.000 -9.000 -9.000  442. -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0  287.6  2.0  0  0.00  51.  1005.  2 NAD-SFC NoSubs
10  4 10 100 11  115.5 -9.000 -9.000 -9.000  582. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  288.9  2.0  0  0.00  47.  1005.  2 NAD-SFC NoSubs
10  4 10 100 12  124.3 -9.000 -9.000 -9.000  703. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  290.2  2.0  0  0.00  42.  1004.  3 NAD-SFC NoSubs
10  4 10 100 13  124.3  0.088  1.408  0.007  805.   63.    -1.0  0.0780  0.32  0.14  0.50  291.0  15.0  291.2  2.0  0  0.00  38.  1004.  3 NAD-SFC NoSubs
10  4 10 100 14  115.6  0.101  1.422  0.007  891.   77.    -1.0  0.1620  0.32  0.14  0.50  303.0  15.0  292.0  2.0  0  0.00  35.  1003.  3 NAD-SFC NoSubs
10  4 10 100 15   98.3  0.151  1.380  0.007  957.  140.    -3.1  0.1620  0.32  0.15  1.00  308.0  15.0  292.6  2.0  0  0.00  34.  1003.  3 NAD-SFC NoSubs
10  4 10 100 16   73.3  0.190  1.272  0.007 1004.  198.    -8.3  0.1620  0.32  0.16  1.50  308.0  15.0  294.2  2.0  0  0.00  30.  1002.  3 NAD-SFC NoSubs
10  4 10 100 17   41.2  0.234  1.058  0.007 1028.  272.   -27.8  0.0780  0.32  0.20  2.60  288.0  15.0  294.2  2.0  0  0.00  33.  1002.  3 NAD-SFC NoSubs
10  4 10 100 18    5.9  0.318  0.554  0.007 1029.  431.  -488.6  0.0780  0.32  0.35  4.10  271.0  15.0  292.9  2.0  0  0.00  44.  1002.  3 NAD-SFC NoSubs
10  4 10 100 19  -38.5  0.370 -9.000 -9.000 -999.  540.   117.8  0.0780  0.32  1.00  5.10  272.0  15.0  289.8  2.0  0  0.00  57.  1003.  3 NAD-SFC NoSubs
10  4 10 100 20  -30.9  0.295 -9.000 -9.000 -999.  387.    74.2  0.0780  0.32  1.00  4.10  274.0  15.0  287.6  2.0  0  0.00  65.  1004.  3 NAD-SFC NoSubs
10  4 10 100 21  -22.9  0.217 -9.000 -9.000 -999.  245.    39.9  0.0310  0.32  1.00  3.60  269.0  15.0  286.2  2.0  0  0.00  69.  1004.  3 NAD-SFC NoSubs
10  4 10 100 22  -22.1  0.219 -9.000 -9.000 -999.  247.    42.8  0.0780  0.32  1.00  3.10  293.0  15.0  285.4  2.0  0  0.00  71.  1004.  3 NAD-SFC NoSubs
10  4 10 100 23  -19.9  0.214 -9.000 -9.000 -999.  238.    44.2  0.1620  0.32  1.00  2.60  322.0  15.0  285.0  2.0  0  0.00  72.  1005.  3 NAD-SFC NoSubs
10  4 10 100 24  -28.5  0.269 -9.000 -9.000 -999.  334.    61.0  0.1900  0.32  1.00  3.10    6.0  15.0  284.5  2.0  0  0.00  74.  1004.  3 NAD-SFC NoSubs
10  4 11 101  1  -33.4  0.315 -9.000 -9.000 -999.  423.    83.4  0.1900  0.32  1.00  3.60   26.0  15.0  284.2  2.0  0  0.00  75.  1004.  3 NAD-SFC NoSubs
10  4 11 101  2  -30.4  0.286 -9.000 -9.000 -999.  367.    68.8  0.1280  0.32  1.00  3.60   40.0  15.0  283.8  2.0  0  0.00  77.  1004.  3 NAD-SFC NoSubs
10  4 11 101  3  -26.0  0.244 -9.000 -9.000 -999.  290.    50.2  0.1280  0.32  1.00  3.10   50.0  15.0  283.6  2.0  0  0.00  79.  1004.  3 NAD-SFC NoSubs
10  4 11 101  4  -26.5  0.244 -9.000 -9.000 -999.  289.    49.0  0.1280  0.32  1.00  3.10   56.0  15.0  283.2  2.0  0  0.00  80.  1004.  2 NAD-SFC NoSubs
10  4 11 101  5  -15.4  0.180 -9.000 -9.000 -999.  185.    34.0  0.0760  0.32  1.00  2.60   64.0  15.0  283.2  2.0  0  0.00  82.  1004.  2 NAD-SFC NoSubs
10  4 11 101  6  -15.4  0.180 -9.000 -9.000 -999.  184.    34.0  0.0760  0.32  1.00  2.60   60.0  15.0  283.2  2.0  0  0.00  82.  1005.  2 NAD-SFC NoSubs
10  4 11 101  7    5.0  0.130  0.189  0.008   48.  113.   -39.2  0.0760  0.32  0.34  1.50   65.0  15.0  283.4  2.0  0  0.00  80.  1005.  2 NAD-SFC NoSubs
10  4 11 101  8   40.7  0.118  0.587  0.007  178.   97.    -3.6  0.0760  0.32  0.20  1.00   80.0  15.0  285.0  2.0  0  0.00  65.  1005.  2 NAD-SFC NoSubs
10  4 11 101  9   73.1  0.072  0.868  0.005  320.   47.    -1.0  0.0380  0.32  0.16  0.50  154.0  15.0  287.2  2.0  0  0.00  49.  1005.  2 NAD-SFC NoSubs
10  4 11 101 10   98.8  0.191  1.090  0.005  470.  200.    -6.3  0.0380  0.32  0.15  2.10  167.0  15.0  289.2  2.0  0  0.00  35.  1005.  2 NAD-SFC NoSubs
10  4 11 101 11  116.4  0.289  1.263  0.005  620.  374.   -18.6  0.0380  0.32  0.14  3.60  164.0  15.0  290.8  2.0  0  0.00  30.  1004.  2 NAD-SFC NoSubs
10  4 11 101 12  125.3  0.353  1.421  0.005  820.  503.   -31.4  0.0380  0.32  0.14  4.60  156.0  15.0  292.2  2.0  0  0.00  28.  1003.  2 NAD-SFC NoSubs
10  4 11 101 13  125.3  0.453  1.525  0.005 1012.  731.   -66.2  0.0380  0.32  0.14  6.20  179.0  15.0  293.5  2.0  0  0.00  30.  1002.  3 NAD-SFC NoSubs
10  4 11 101 14  116.5  0.595  1.574  0.006 1196. 1100.  -161.2  0.0330  0.32  0.14  8.70  194.0  15.0  293.8  2.0  0  0.00  36.  1001.  3 NAD-SFC NoSubs
10  4 11 101 15   98.9  0.629  1.544  0.007 1331. 1196.  -224.5  0.0330  0.32  0.15  9.30  204.0  15.0  293.5  2.0  0  0.00  41.  1001.  3 NAD-SFC NoSubs
10  4 11 101 16   73.4  0.625  1.412  0.007 1368. 1185.  -296.1  0.0330  0.32  0.16  9.30  202.0  15.0  293.0  2.0  0  0.00  46.  1000.  3 NAD-SFC NoSubs
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10  4 11 101 17   41.2  0.424  1.169  0.007 1384.  702.   -164.4  0.0330  0.32  0.20   6.20  203.0  15.0  292.1   2.0    0   0.00   57.  1000.    4 NAD-SFC NoSubs
10  4 11 101 18    6.6  0.339  0.634  0.007 1384.  481.   -529.6  0.0330  0.32  0.35   5.10  191.0  15.0  290.4   2.0    0   0.00   66.  1001.    4 NAD-SFC NoSubs
10  4 11 101 19  -33.8  0.324 -9.000 -9.000 -999.  442.     89.7  0.0380  0.32  1.00   5.10  178.0  15.0  288.4   2.0    0   0.00   72.  1001.    3 NAD-SFC NoSubs
10  4 11 101 20  -31.5  0.301 -9.000 -9.000 -999.  396.     77.1  0.0460  0.32  1.00   4.60  146.0  15.0  287.5   2.0    0   0.00   74.  1002.    3 NAD-SFC NoSubs
10  4 11 101 21  -35.1  0.335 -9.000 -9.000 -999.  465.     95.4  0.0460  0.32  1.00   5.10  126.0  15.0  286.9   2.0    0   0.00   75.  1002.    3 NAD-SFC NoSubs
10  4 11 101 22  -32.2  0.306 -9.000 -9.000 -999.  407.     79.7  0.0510  0.32  1.00   4.60  119.0  15.0  286.2   2.0    0   0.00   76.  1002.    3 NAD-SFC NoSubs
10  4 11 101 23  -31.7  0.301 -9.000 -9.000 -999.  396.     76.7  0.0460  0.32  1.00   4.60  125.0  15.0  285.9   2.0    0   0.00   77.  1003.    3 NAD-SFC NoSubs
10  4 11 101 24  -28.1  0.267 -9.000 -9.000 -999.  331.     60.2  0.0460  0.32  1.00   4.10  127.0  15.0  285.6   2.0    0   0.00   78.  1002.    3 NAD-SFC NoSubs
10  4 12 102  1  -28.2  0.267 -9.000 -9.000 -999.  330.     60.1  0.0460  0.32  1.00   4.10  136.0  15.0  285.2   2.0    0   0.00   79.  1002.    3 NAD-SFC NoSubs
10  4 12 102  2  -28.2  0.267 -9.000 -9.000 -999.  330.     60.1  0.0460  0.32  1.00   4.10  128.0  15.0  284.9   2.0    0   0.00   80.  1002.    3 NAD-SFC NoSubs
10  4 12 102  3  -18.9  0.198 -9.000 -9.000 -999.  213.     36.8  0.0460  0.32  1.00   3.10  120.0  15.0  284.8   2.0    0   0.00   79.  1002.    3 NAD-SFC NoSubs
10  4 12 102  4  -13.1  0.164 -9.000 -9.000 -999.  159.     30.0  0.0460  0.32  1.00   2.60  149.0  15.0  284.8   2.0    0   0.00   77.  1002.    3 NAD-SFC NoSubs
10  4 12 102  5  -22.9  0.225 -9.000 -9.000 -999.  256.     44.3  0.0380  0.32  1.00   3.60  171.0  15.0  284.5   2.0    0   0.00   75.  1002.    4 NAD-SFC NoSubs
10  4 12 102  6  -29.7  0.291 -9.000 -9.000 -999.  376.     74.0  0.0380  0.32  1.00   4.60  173.0  15.0  284.1   2.0    0   0.00   75.  1003.    4 NAD-SFC NoSubs
10  4 12 102  7    7.5  0.308  0.248  0.005   72.  410.   -346.0  0.0330  0.32  0.33   4.60  185.0  15.0  283.9   2.0    0   0.25   77.  1003.    4 NAD-SFC NoSubs
10  4 12 102  8   38.8  0.294  0.805  0.005  481.  382.    -58.5  0.0330  0.32  0.20   4.10  181.0  15.0  285.0   2.0    0   0.76   74.  1003.    6 NAD-SFC NoSubs
10  4 12 102  9   16.8  0.316  0.635  0.005  546.  425.   -168.0  0.0340  0.32  0.16   4.60  222.0  15.0  286.9   2.0    0   1.02   65.  1004.   10 NAD-SFC NoSubs
10  4 12 102 10   80.0  0.430  1.212  0.005  798.  676.    -88.8  0.0310  0.32  0.15   6.20  241.0  15.0  288.1   2.0    0   1.27   57.  1003.    7 NAD-SFC NoSubs
10  4 12 102 11  115.1  0.412  1.488  0.005 1026.  636.    -54.5  0.0340  0.32  0.14   5.70  239.0  15.0  289.2   2.0    0   0.51   49.  1003.    4 NAD-SFC NoSubs
10  4 12 102 12  123.6  0.377  1.589  0.005 1162.  557.    -38.9  0.0340  0.32  0.14   5.10  236.0  15.0  290.2   2.0    0   0.00   43.  1002.    4 NAD-SFC NoSubs
10  4 12 102 13  125.2  0.342  1.650  0.005 1284.  482.    -28.6  0.0310  0.32  0.14   4.60  246.0  15.0  290.8   2.0    0   0.00   41.  1002.    3 NAD-SFC NoSubs
10  4 12 102 14  116.3  0.341  1.656  0.005 1399.  477.    -30.4  0.0310  0.32  0.14   4.60  255.0  15.0  290.9   2.0    0   0.00   40.  1002.    3 NAD-SFC NoSubs
10  4 12 102 15   98.8  0.337  1.606  0.005 1499.  470.    -34.7  0.0310  0.32  0.15   4.60  256.0  15.0  291.1   2.0    0   0.00   39.  1001.    3 NAD-SFC NoSubs
10  4 12 102 16   73.4  0.428  1.476  0.005 1568.  672.    -95.6  0.0310  0.32  0.16   6.20  267.0  15.0  290.8   2.0    0   0.25   41.  1001.    3 NAD-SFC NoSubs
10  4 12 102 17   41.1  0.410  1.226  0.005 1602.  630.   -149.6  0.0780  0.32  0.20   5.10  276.0  15.0  289.8   2.0    0   0.25   50.  1002.    3 NAD-SFC NoSubs
10  4 12 102 18    6.7  0.282  0.671  0.005 1606.  371.   -300.3  0.0780  0.32  0.35   3.60  286.0  15.0  289.0   2.0    0   0.25   58.  1002.    4 NAD-SFC NoSubs
10  4 12 102 19  -37.4  0.370 -9.000 -9.000 -999.  541.    121.4  0.0780  0.32  1.00   5.10  285.0  15.0  287.5   2.0    0   0.00   64.  1003.    4 NAD-SFC NoSubs
10  4 12 102 20  -37.7  0.370 -9.000 -9.000 -999.  541.    120.6  0.0780  0.32  1.00   5.10  272.0  15.0  285.5   2.0    0   0.00   74.  1004.    4 NAD-SFC NoSubs
10  4 12 102 21  -32.4  0.333 -9.000 -9.000 -999.  462.    102.0  0.0780  0.32  1.00   4.60  272.0  15.0  284.2   2.0    0   0.00   80.  1004.    5 NAD-SFC NoSubs
10  4 12 102 22  -32.5  0.333 -9.000 -9.000 -999.  461.    101.8  0.0780  0.32  1.00   4.60  270.0  15.0  283.6   2.0    0   0.00   83.  1005.    5 NAD-SFC NoSubs
10  4 12 102 23  -32.2  0.313 -9.000 -9.000 -999.  420.     85.3  0.0310  0.32  1.00   5.10  268.0  15.0  283.1   2.0    0   0.00   86.  1005.    4 NAD-SFC NoSubs
10  4 12 102 24  -38.1  0.370 -9.000 -9.000 -999.  540.    119.3  0.0780  0.32  1.00   5.10  283.0  15.0  282.8   2.0    0   0.00   88.  1005.    4 NAD-SFC NoSubs
10  4 13 103  1  -32.6  0.333 -9.000 -9.000 -999.  462.    101.3  0.0780  0.32  1.00   4.60  293.0  15.0  282.2   2.0    0   0.00   91.  1005.    5 NAD-SFC NoSubs
10  4 13 103  2  -29.0  0.295 -9.000 -9.000 -999.  386.     79.6  0.0780  0.32  1.00   4.10  292.0  15.0  282.1   2.0    0   0.00   92.  1005.    5 NAD-SFC NoSubs
10  4 13 103  3  -29.8  0.303 -9.000 -9.000 -999.  400.     83.6  0.1620  0.32  1.00   3.60  302.0  15.0  281.8   2.0    0   0.00   93.  1006.    5 NAD-SFC NoSubs
10  4 13 103  4  -31.3  0.302 -9.000 -9.000 -999.  399.     79.2  0.1620  0.32  1.00   3.60  301.0  15.0  281.2   2.0    0   0.00   93.  1006.    4 NAD-SFC NoSubs
10  4 13 103  5  -21.9  0.220 -9.000 -9.000 -999.  250.     43.4  0.0780  0.32  1.00   3.10  294.0  15.0  280.9   2.0    0   0.00   94.  1006.    4 NAD-SFC NoSubs
10  4 13 103  6  -15.5  0.181 -9.000 -9.000 -999.  186.     34.6  0.0780  0.32  1.00   2.60  297.0  15.0  280.5   2.0    0   0.00   96.  1007.    3 NAD-SFC NoSubs
10  4 13 103  7    7.3  0.243  0.236  0.005   65.  287.   -177.2  0.1620  0.32  0.33   2.60  316.0  15.0  281.5   2.0    0   0.00   91.  1007.    3 NAD-SFC NoSubs
10  4 13 103  8   42.5  0.185  0.659  0.005  241.  191.    -13.3  0.1880  0.32  0.20   1.50  359.0  15.0  282.8   2.0    0   0.00   86.  1008.    3 NAD-SFC NoSubs
10  4 13 103  9   74.4 -9.000 -9.000 -9.000  379. -999. -99999.0  0.0879  0.32  0.16   0.00    0.0  15.0  284.4   2.0    0   0.00   75.  1008.    3 NAD-SFC NoSubs
10  4 13 103 10   99.6 -9.000 -9.000 -9.000  586. -999. -99999.0  0.0879  0.32  0.15   0.00    0.0  15.0  286.2   2.0    0   0.00   62.  1008.    3 NAD-SFC NoSubs
10  4 13 103 11  116.9 -9.000 -9.000 -9.000  782. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  287.8   2.0    0   0.00   53.  1007.    3 NAD-SFC NoSubs
10  4 13 103 12  125.6  0.088  1.496  0.005  958.   63.     -1.0  0.0780  0.32  0.14   0.50  279.0  15.0  289.0   2.0    0   0.00   47.  1006.    3 NAD-SFC NoSubs
10  4 13 103 13  125.5  0.102  1.550  0.005 1065.   78.     -1.0  0.1620  0.32  0.14   0.50  301.0  15.0  290.0   2.0    0   0.00   42.  1005.    3 NAD-SFC NoSubs
10  4 13 103 14  116.7  0.154  1.553  0.005 1151.  145.     -2.8  0.1620  0.32  0.14   1.00  325.0  15.0  290.8   2.0    0   0.00   39.  1005.    3 NAD-SFC NoSubs
10  4 13 103 15   99.3  0.202  1.501  0.005 1221.  218.     -7.5  0.1880  0.32  0.15   1.50  345.0  15.0  291.2   2.0    0   0.00   37.  1004.    3 NAD-SFC NoSubs
10  4 13 103 16   73.6  0.289  1.376  0.005 1270.  372.    -29.3  0.1880  0.32  0.16   2.60  353.0  15.0  291.6   2.0    0   0.00   36.  1004.    2 NAD-SFC NoSubs
10  4 13 103 17   41.3  0.317  1.144  0.005 1296.  429.    -69.3  0.1880  0.32  0.20   3.10  352.0  15.0  291.5   2.0    0   0.00   36.  1003.    2 NAD-SFC NoSubs
10  4 13 103 18    5.8 -9.000 -9.000 -9.000 1298. -999. -99999.0  0.0879  0.32  0.34   0.00    0.0  15.0  291.0   2.0    0   0.00   44.  1004.    2 NAD-SFC NoSubs
10  4 13 103 19  -28.7  0.269 -9.000 -9.000 -999.  334.     60.5  0.1900  0.32  1.00   3.10   14.0  15.0  290.0   2.0    0   0.00   47.  1004.    2 NAD-SFC NoSubs
10  4 13 103 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00   0.00    0.0  15.0  288.9   2.0    0   0.00   51.  1004.    2 NAD-SFC NoSubs
10  4 13 103 21   -7.6  0.122 -9.000 -9.000 -999.  102.     21.0  0.0310  0.32  1.00   2.10  241.0  15.0  287.4   2.0    0   0.00   57.  1004.    2 NAD-SFC NoSubs
10  4 13 103 22  -26.3  0.249 -9.000 -9.000 -999.  298.     52.5  0.0310  0.32  1.00   4.10  255.0  15.0  285.5   2.0    0   0.00   74.  1004.    3 NAD-SFC NoSubs
10  4 13 103 23  -26.4  0.249 -9.000 -9.000 -999.  298.     52.3  0.0310  0.32  1.00   4.10  267.0  15.0  284.5   2.0    0   0.00   84.  1004.    3 NAD-SFC NoSubs
10  4 13 103 24  -31.4  0.295 -9.000 -9.000 -999.  384.     73.2  0.0780  0.32  1.00   4.10  287.0  15.0  284.0   2.0    0   0.00   87.  1005.    3 NAD-SFC NoSubs
10  4 14 104  1  -31.1  0.303 -9.000 -9.000 -999.  399.     79.9  0.1620  0.32  1.00   3.60  314.0  15.0  283.5   2.0    0   0.00   90.  1005.    4 NAD-SFC NoSubs
10  4 14 104  2  -27.6  0.268 -9.000 -9.000 -999.  334.     62.8  0.1880  0.32  1.00   3.10  345.0  15.0  283.2   2.0    0   0.00   92.  1005.    4 NAD-SFC NoSubs
10  4 14 104  3  -20.3  0.223 -9.000 -9.000 -999.  253.     48.8  0.1880  0.32  1.00   2.60  358.0  15.0  282.8   2.0    0   0.00   94.  1006.    5 NAD-SFC NoSubs
10  4 14 104  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00   0.00    0.0  15.0  282.2   2.0    0   0.00   96.  1006.    7 NAD-SFC NoSubs
10  4 14 104  5   -0.8  0.060 -9.000 -9.000 -999.   36.     25.1  0.1620  0.32  1.00   0.50  325.0  15.0  281.8   2.0    0   0.00   96.  1007.   10 NAD-SFC NoSubs
10  4 14 104  6   -0.8  0.060 -9.000 -9.000 -999.   36.     25.1  0.1620  0.32  1.00   0.50  303.0  15.0  282.0   2.0    0   0.00   94.  1008.   10 NAD-SFC NoSubs
10  4 14 104  7   -0.2  0.042 -9.000 -9.000 -999.   21.     37.7  0.1880  0.32  0.32   0.50  352.0  15.0  282.2   2.0    0   0.00   92.  1008.   10 NAD-SFC NoSubs
10  4 14 104  8    8.5  0.118  0.257  0.005   71.   98.    -17.5  0.1880  0.32  0.19   1.00  333.0  15.0  282.8   2.0    0   0.00   88.  1009.   10 NAD-SFC NoSubs
10  4 14 104  9   16.6  0.164  0.429  0.005  172.  159.    -23.9  0.1620  0.32  0.16   1.50  322.0  15.0  283.2   2.0    0   0.00   82.  1009.   10 NAD-SFC NoSubs
10  4 14 104 10   95.5 -9.000 -9.000 -9.000  442. -999. -99999.0  0.0879  0.32  0.15   0.00    0.0  15.0  284.2   2.0    0   0.00   77.  1009.    5 NAD-SFC NoSubs
10  4 14 104 11  115.6 -9.000 -9.000 -9.000  608. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  286.0   2.0    0   0.00   70.  1009.    4 NAD-SFC NoSubs
10  4 14 104 12  125.8 -9.000 -9.000 -9.000  745. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  287.8   2.0    0   0.00   63.  1008.    3 NAD-SFC NoSubs
10  4 14 104 13  125.8 -9.000 -9.000 -9.000  859. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  288.9   2.0    0   0.00   58.  1007.    3 NAD-SFC NoSubs
10  4 14 104 14  117.0 -9.000 -9.000 -9.000  954. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  290.0   2.0    0   0.00   54.  1006.    3 NAD-SFC NoSubs
10  4 14 104 15   99.6  0.099  1.430  0.005 1055.   75.     -1.0  0.1620  0.32  0.15   0.50  315.0  15.0  290.8   2.0    0   0.00   50.  1006.    3 NAD-SFC NoSubs
10  4 14 104 16   74.3  0.196  1.329  0.006 1132.  208.     -9.0  0.1880  0.32  0.16   1.50  331.0  15.0  291.2   2.0    0   0.00   48.  1005.    3 NAD-SFC NoSubs
10  4 14 104 17   42.3  0.235  1.115  0.006 1173.  273.    -27.4  0.1880  0.32  0.20   2.10  338.0  15.0  291.2   2.0    0   0.00   48.  1005.    3 NAD-SFC NoSubs
10  4 14 104 18    7.2  0.209  0.619  0.006 1179.  229.   -113.2  0.1900  0.32  0.34   2.10    1.0  15.0  291.1   2.0    0   0.00   53.  1006.    3 NAD-SFC NoSubs
10  4 14 104 19  -13.2  0.177 -9.000 -9.000 -999.  179.     37.7  0.1900  0.32  1.00   2.10    8.0  15.0  290.2   2.0    0   0.00   56.  1006.    4 NAD-SFC NoSubs
10  4 14 104 20   -5.9  0.120 -9.000 -9.000 -999.  100.     26.1  0.1620  0.32  1.00   1.50  317.0  15.0  289.2   2.0    0   0.00   60.  1007.    6 NAD-SFC NoSubs
10  4 14 104 21  -25.1  0.335 -9.000 -9.000 -999.  465.    134.0  0.0780  0.32  1.00   4.60  290.0  15.0  287.1   2.0    0   0.00   70.  1007.    8 NAD-SFC NoSubs
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10	4	14	104	22	-16.6	0.299	-9.000	-9.000	-999.	393.	144.3	0.0780	0.32	1.00	4.10	296.0	15.0	285.4	2.0	0	0.00	78.	1008.	10	NAD-SFC NoSubs
10	4	14	104	23	-14.6	0.262	-9.000	-9.000	-999.	323.	111.0	0.1620	0.32	1.00	3.10	314.0	15.0	284.8	2.0	0	0.00	79.	1008.	10	NAD-SFC NoSubs
10	4	14	104	24	-12.6	0.227	-9.000	-9.000	-999.	259.	82.7	0.1880	0.32	1.00	2.60	334.0	15.0	284.6	2.0	0	0.00	78.	1008.	10	NAD-SFC NoSubs
10	4	15	105	1	-11.6	0.179	-9.000	-9.000	-999.	182.	44.2	0.1880	0.32	1.00	2.10	351.0	15.0	284.2	2.0	0	0.00	78.	1008.	8	NAD-SFC NoSubs
10	4	15	105	2	-6.4	0.124	-9.000	-9.000	-999.	106.	27.3	0.1900	0.32	1.00	1.50	28.0	15.0	283.8	2.0	0	0.00	80.	1009.	6	NAD-SFC NoSubs
10	4	15	105	3	-2.6	0.083	-9.000	-9.000	-999.	57.	19.2	0.0760	0.32	1.00	1.00	60.0	15.0	283.2	2.0	0	0.00	81.	1009.	4	NAD-SFC NoSubs
10	4	15	105	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	282.8	2.0	0	0.00	83.	1009.	4	NAD-SFC NoSubs
10	4	15	105	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	282.4	2.0	0	0.00	84.	1009.	3	NAD-SFC NoSubs
10	4	15	105	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	282.1	2.0	0	0.00	85.	1009.	3	NAD-SFC NoSubs
10	4	15	105	7	8.8	0.069	0.370	0.007	206.	44.	-3.4	0.1280	0.32	0.32	0.50	43.0	15.0	282.2	2.0	0	0.00	83.	1009.	3	NAD-SFC NoSubs
10	4	15	105	8	44.1	-9.000	-9.000	-9.000	311.	-999.	-99999.0	0.0879	0.32	0.19	0.00	0.0	15.0	283.2	2.0	0	0.00	74.	1010.	3	NAD-SFC NoSubs
10	4	15	105	9	75.8	-9.000	-9.000	-9.000	437.	-999.	-99999.0	0.0879	0.32	0.16	0.00	0.0	15.0	284.8	2.0	0	0.00	66.	1009.	3	NAD-SFC NoSubs
10	4	15	105	10	100.8	-9.000	-9.000	-9.000	564.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	286.2	2.0	0	0.00	61.	1009.	2	NAD-SFC NoSubs
10	4	15	105	11	118.1	0.104	1.309	0.007	684.	81.	-1.0	0.1880	0.32	0.14	0.50	330.0	15.0	288.0	2.0	0	0.00	56.	1008.	2	NAD-SFC NoSubs
10	4	15	105	12	126.8	0.105	1.407	0.008	791.	82.	-1.0	0.1880	0.32	0.14	0.50	330.0	15.0	289.5	2.0	0	0.00	51.	1008.	2	NAD-SFC NoSubs
10	4	15	105	13	126.7	0.156	1.462	0.008	886.	147.	-2.7	0.1620	0.32	0.14	1.00	328.0	15.0	290.8	2.0	0	0.00	47.	1007.	2	NAD-SFC NoSubs
10	4	15	105	14	117.8	0.206	1.469	0.009	967.	224.	-6.6	0.1880	0.32	0.14	1.50	331.0	15.0	291.6	2.0	0	0.00	44.	1006.	2	NAD-SFC NoSubs
10	4	15	105	15	100.2	0.255	1.417	0.010	1019.	308.	-14.8	0.1880	0.32	0.15	2.10	336.0	15.0	292.0	2.0	0	0.00	43.	1006.	2	NAD-SFC NoSubs
10	4	15	105	16	74.8	0.290	1.301	0.010	1057.	374.	-29.1	0.1900	0.32	0.16	2.60	2.0	15.0	292.9	2.0	0	0.00	40.	1005.	2	NAD-SFC NoSubs
10	4	15	105	17	42.4	0.277	1.083	0.010	1076.	350.	-45.1	0.1900	0.32	0.20	2.60	17.0	15.0	292.2	2.0	0	0.00	51.	1005.	2	NAD-SFC NoSubs
10	4	15	105	18	6.7	0.271	0.587	0.011	1078.	338.	-264.3	0.1280	0.32	0.34	3.10	34.0	15.0	291.4	2.0	0	0.00	56.	1006.	2	NAD-SFC NoSubs
10	4	15	105	19	-5.9	0.114	-9.000	-9.000	-999.	114.	22.8	0.1280	0.32	1.00	1.50	43.0	15.0	290.8	2.0	0	0.00	58.	1006.	3	NAD-SFC NoSubs
10	4	15	105	20	-7.5	0.122	-9.000	-9.000	-999.	102.	21.4	0.0310	0.32	1.00	2.10	264.0	15.0	290.1	2.0	0	0.00	60.	1006.	3	NAD-SFC NoSubs
10	4	15	105	21	-31.0	0.295	-9.000	-9.000	-999.	384.	74.3	0.0780	0.32	1.00	4.10	275.0	15.0	288.2	2.0	0	0.00	66.	1007.	3	NAD-SFC NoSubs
10	4	15	105	22	-31.1	0.295	-9.000	-9.000	-999.	384.	74.0	0.0780	0.32	1.00	4.10	271.0	15.0	286.9	2.0	0	0.00	66.	1008.	3	NAD-SFC NoSubs
10	4	15	105	23	-22.1	0.219	-9.000	-9.000	-999.	249.	42.9	0.0780	0.32	1.00	3.10	275.0	15.0	286.2	2.0	0	0.00	67.	1008.	3	NAD-SFC NoSubs
10	4	15	105	24	-15.4	0.181	-9.000	-9.000	-999.	186.	35.0	0.0780	0.32	1.00	2.60	274.0	15.0	285.8	2.0	0	0.00	67.	1008.	3	NAD-SFC NoSubs
10	4	16	106	1	-5.1	0.104	-9.000	-9.000	-999.	83.	20.0	0.0780	0.32	1.00	1.50	288.0	15.0	285.8	2.0	0	0.00	65.	1008.	3	NAD-SFC NoSubs
10	4	16	106	2	-1.2	0.072	-9.000	-9.000	-999.	47.	28.8	0.0780	0.32	1.00	0.50	287.0	15.0	285.6	2.0	0	0.00	64.	1009.	3	NAD-SFC NoSubs
10	4	16	106	3	-1.0	0.067	-9.000	-9.000	-999.	41.	26.7	0.0330	0.32	1.00	0.50	193.0	15.0	285.5	2.0	0	0.00	64.	1009.	3	NAD-SFC NoSubs
10	4	16	106	4	-1.0	0.067	-9.000	-9.000	-999.	41.	26.7	0.0330	0.32	1.00	0.50	192.0	15.0	285.2	2.0	0	0.00	64.	1009.	3	NAD-SFC NoSubs
10	4	16	106	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	285.0	2.0	0	0.00	64.	1009.	3	NAD-SFC NoSubs
10	4	16	106	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	0.72	0.00	0.0	15.0	284.8	2.0	0	0.00	65.	1010.	3	NAD-SFC NoSubs
10	4	16	106	7	10.0	0.117	0.311	0.006	108.	96.	-14.4	0.1620	0.32	0.31	1.00	323.0	15.0	285.4	2.0	0	0.00	62.	1010.	3	NAD-SFC NoSubs
10	4	16	106	8	45.4	-9.000	-9.000	-9.000	261.	-999.	-99999.0	0.0879	0.32	0.19	0.00	0.0	15.0	286.9	2.0	0	0.00	57.	1011.	3	NAD-SFC NoSubs
10	4	16	106	9	76.7	-9.000	-9.000	-9.000	423.	-999.	-99999.0	0.0879	0.32	0.16	0.00	0.0	15.0	288.2	2.0	0	0.00	54.	1011.	2	NAD-SFC NoSubs
10	4	16	106	10	102.0	-9.000	-9.000	-9.000	611.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	289.8	2.0	0	0.00	49.	1010.	2	NAD-SFC NoSubs
10	4	16	106	11	119.3	-9.000	-9.000	-9.000	764.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	291.2	2.0	0	0.00	44.	1010.	2	NAD-SFC NoSubs
10	4	16	106	12	127.8	-9.000	-9.000	-9.000	898.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	292.6	2.0	0	0.00	39.	1009.	3	NAD-SFC NoSubs
10	4	16	106	13	127.7	0.102	1.533	0.006	1017.	79.	-1.0	0.1620	0.32	0.14	0.50	328.0	15.0	293.8	2.0	0	0.00	35.	1008.	3	NAD-SFC NoSubs
10	4	16	106	14	118.9	0.206	1.546	0.006	1119.	224.	-6.6	0.1880	0.32	0.14	1.50	355.0	15.0	294.5	2.0	0	0.00	33.	1008.	3	NAD-SFC NoSubs
10	4	16	106	15	101.3	0.297	1.501	0.007	1200.	388.	-23.1	0.1880	0.32	0.15	2.60	355.0	15.0	295.0	2.0	0	0.00	32.	1007.	2	NAD-SFC NoSubs
10	4	16	106	16	75.7	0.331	1.383	0.007	1256.	457.	-43.0	0.1880	0.32	0.16	3.10	355.0	15.0	295.2	2.0	0	0.00	32.	1007.	2	NAD-SFC NoSubs
10	4	16	106	17	43.4	0.318	1.158	0.007	1286.	431.	-66.7	0.1880	0.32	0.20	3.10	356.0	15.0	294.8	2.0	0	0.00	37.	1006.	2	NAD-SFC NoSubs
10	4	16	106	18	7.8	0.252	0.654	0.007	1291.	305.	-184.1	0.1900	0.32	0.33	2.60	1.0	15.0	294.2	2.0	0	0.00	42.	1006.	2	NAD-SFC NoSubs
10	4	16	106	19	-21.1	0.222	-9.000	-9.000	-999.	252.	46.7	0.1880	0.32	1.00	2.60	338.0	15.0	293.2	2.0	0	0.00	44.	1007.	2	NAD-SFC NoSubs
10	4	16	106	20	-26.8	0.258	-9.000	-9.000	-999.	315.	57.9	0.1620	0.32	1.00	3.10	329.0	15.0	292.2	2.0	0	0.00	47.	1007.	3	NAD-SFC NoSubs
10	4	16	106	21	-31.5	0.302	-9.000	-9.000	-999.	399.	78.9	0.1620	0.32	1.00	3.60	306.0	15.0	290.8	2.0	0	0.00	55.	1007.	3	NAD-SFC NoSubs
10	4	16	106	22	-27.1	0.258	-9.000	-9.000	-999.	316.	57.2	0.1620	0.32	1.00	3.10	305.0	15.0	288.9	2.0	0	0.00	67.	1007.	3	NAD-SFC NoSubs
10	4	16	106	23	-15.1	0.182	-9.000	-9.000	-999.	188.	35.9	0.0780	0.32	1.00	2.60	298.0	15.0	288.1	2.0	0	0.00	73.	1008.	4	NAD-SFC NoSubs
10	4	16	106	24	-26.2	0.259	-9.000	-9.000	-999.	316.	59.2	0.1620	0.32	1.00	3.10	317.0	15.0	287.4	2.0	0	0.00	78.	1007.	4	NAD-SFC NoSubs
10	4	17	107	1	-19.5	0.214	-9.000	-9.000	-999.	239.	45.3	0.1620	0.32	1.00	2.60	329.0	15.0	286.8	2.0	0	0.00	83.	1007.	4	NAD-SFC NoSubs
10	4	17	107	2	-2.6	0.083	-9.000	-9.000	-999.	72.	19.2	0.0780	0.32	1.00	1.00	299.0	15.0	286.0	2.0	0	0.00	88.	1007.	4	NAD-SFC NoSubs
10	4	17	107	3	-2.2	0.075	-9.000	-9.000	-999.	49.	17.2	0.0330	0.32	1.00	1.00	206.0	15.0	285.5	2.0	0	0.00	90.	1007.	4	NAD-SFC NoSubs
10	4	17	107	4	-1.0	0.066	-9.000	-9.000	-999.	40.	26.3	0.0330	0.32	1.00	0.50	187.0	15.0	285.1	2.0	0	0.00	92.	1007.	4	NAD-SFC NoSubs
10	4	17	107	5	-1.5	0.080	-9.000	-9.000	-999.	54.	31.1	0.1900	0.32	1.00	0.50	20.0	15.0	284.6	2.0	0	0.00	94.	1007.	3	NAD-SFC NoSubs
10	4	17	107	6	4.5	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	0.71	0.00	0.0	15.0	284.2	2.0	0	0.00	96.	1007.	3	NAD-SFC NoSubs
10	4	17	107	7	10.5	-9.000	-9.000	-9.000	209.	-999.	-99999.0	0.0879	0.32	0.31	0.00	0.0	15.0	284.5	2.0	0	0.00	95.	1008.	3	NAD-SFC NoSubs
10	4	17	107	8	45.8	-9.000	-9.000	-9.000	333.	-999.	-99999.0	0.0879	0.32	0.19	0.00	0.0	15.0	285.2	2.0	0	0.00	91.	1007.	3	NAD-SFC NoSubs
10	4	17	107	9	76.9	-9.000	-9.000	-9.000	448.	-999.	-99999.0	0.0879	0.32	0.16	0.00	0.0	15.0	285.5	2.0	0	0.00	89.	1007.	2	NAD-SFC NoSubs
10	4	17	107	10	101.9	-9.000	-9.000	-9.000	550.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	286.2	2.0	0	0.00	85.	1006.	2	NAD-SFC NoSubs
10	4	17	107	11	119.4	-9.000	-9.000	-9.000	652.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	289.2	2.0	0	0.00	70.	1006.	2	NAD-SFC NoSubs
10	4	17	107	12	128.2	-9.000	-9.000	-9.000	770.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	291.8	2.0	0	0.00	58.	1004.	2	NAD-SFC NoSubs
10	4	17	107	13	128.2	0.106	1.463	0.007	874.	83.	-1.0	0.1900	0.32	0.14	0.50	10.0	15.0	293.6	2.0	0	0.00	51.	1003.	2	NAD-SFC NoSubs
10	4	17	107	14	119.5	0.160	1.475	0.007	961.	153.	-3.0	0.1900	0.32	0.14	1.00	15.0	15.0	295.1	2.0	0	0.00	46.	1002.	2	NAD-SFC NoSubs
10	4	17	107	15	102.0	-9.000	-9.000	-9.000	1031.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	296.0	2.0	0	0.00	43.	1001.	2	NAD-SFC NoSubs
10	4	17	107	16	76.5	-9.000	-9.000	-9.000	1080.	-999.	-99999.0	0.0879	0.32	0.16	0.00	0.0	15.0	296.4	2.0	0	0.00	41.	1000.	2	NAD-SFC NoSubs
10	4	17	107	17	44.2	0.278	1.111	0.008	1107.	352.	-43.4	0.1900	0.32	0.20	2.60	12.0	15.0	296.2	2.0	0	0.00	45.	1000.	2	NAD-SFC NoSubs
10	4	17	107	18	8.6	0.211	0.644	0.008	1110.	234.	-97.0	0.1900	0.32	0.33	2.10	23.0	15.0	295.8	2.0	0	0.00	49.	1001.	2	NAD-SFC NoSubs
10	4	17	107	19	-6.8	0.125	-9.000	-9.000	-999.	109.	25.5	0.1900	0.32	1.00	1.50	17.0	15.0	294.6	2.0	0	0.00	52.	1001.	2	NAD-SFC NoSubs
10	4	17	107	20	-1.3	0.076	-9.000	-9.000	-999.	51.	30.1	0.1280	0.32	1.00	0.50	40.0	15.0	293.2	2.0	0	0.00	56.	1001.	2	NAD-SFC NoSubs
10	4	17	107	21	-1.0	0.068	-9.000	-9.000	-999.	42.	27.0	0.0380	0.32	1.00	0.50	179.0	15.0	291.8	2.0	0	0.00	63.	1001.	2	NAD-SFC NoSubs
10	4	17	107	22	-1.0	0.067	-9.000	-9.000	-999.	42.	26.8	0.0340	0.32	1.00	0.50	215.0	15.0	290.1	2.0	0	0.00	70.	1001.	2	NAD-SFC NoSubs
10	4	17	107	23	-1.2	0.073	-9.000	-9.000	-999.	47.	29.0	0.0780	0.32	1.00	0.50	292.0	15.0	289.0	2.0	0	0.00	75.	1001.	2	NAD-SFC NoSubs
10	4	17	107	24	-1.5	0.080	-9.000	-9.000	-999.	54.	31.2	0.1880	0.32	1.00	0.50	345.0	15.0	288.1	2.0	0	0.00	78.	1001.	2	NAD-SFC NoSubs
10	4	18	108	1	-6.9	0.125	-9.000	-9.000	-999.	106.	25.2	0.1880	0.32	1.00	1.50	349.0	15.0	287.6	2.0	0	0.00	78.	1001.	2	NAD-SFC NoSubs
10	4	18	108	2	-33.7	0.314	-9.000	-9.000	-999.	421.	81.6	0.1880	0.32	1.00	3.60	349.0	15.0	287.0	2.0	0	0.00	79.	1001.	2	NAD-SFC NoSubs

10	4	18	108	3	-28.9	0.268	-9.000	-9.000	-999.	334.	59.4	0.1880	0.32	1.00	3.10	348.0	15.0	286.1	2.0	0	0.00	86.	1001.	2	NAD-SFC	NoSubs
10	4	18	108	4	-21.2	0.222	-9.000	-9.000	-999.	252.	46.0	0.1880	0.32	1.00	2.60	347.0	15.0	285.5	2.0	0	0.00	89.	1001.	2	NAD-SFC	NoSubs
10	4	18	108	5	-13.6	0.176	-9.000	-9.000	-999.	178.	35.8	0.1880	0.32	1.00	2.10	354.0	15.0	285.2	2.0	0	0.00	91.	1002.	2	NAD-SFC	NoSubs
10	4	18	108	6	-3.5	0.095	-9.000	-9.000	-999.	73.	21.9	0.1880	0.32	0.69	1.00	348.0	15.0	284.9	2.0	0	0.00	93.	1002.	2	NAD-SFC	NoSubs
10	4	18	108	7	10.4	0.074	0.278	0.012	73.	48.	-3.5	0.1620	0.32	0.31	0.50	325.0	15.0	284.9	2.0	0	0.00	93.	1003.	2	NAD-SFC	NoSubs
10	4	18	108	8	46.0	0.142	0.599	0.010	167.	128.	-5.5	0.1880	0.32	0.19	1.00	352.0	15.0	286.0	2.0	0	0.00	87.	1003.	2	NAD-SFC	NoSubs
10	4	18	108	9	77.9	-9.000	-9.000	-9.000	266.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	287.6	2.0	0	0.00	79.	1002.	2	NAD-SFC	NoSubs
10	4	18	108	10	103.1	-9.000	-9.000	-9.000	365.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	289.5	2.0	0	0.00	68.	1002.	2	NAD-SFC	NoSubs
10	4	18	108	11	120.3	-9.000	-9.000	-9.000	510.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	290.9	2.0	0	0.00	63.	1001.	2	NAD-SFC	NoSubs
10	4	18	108	12	128.9	-9.000	-9.000	-9.000	648.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	292.8	2.0	0	0.00	55.	1000.	2	NAD-SFC	NoSubs
10	4	18	108	13	128.8	-9.000	-9.000	-9.000	827.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	294.4	2.0	0	0.00	47.	999.	2	NAD-SFC	NoSubs
10	4	18	108	14	119.9	-9.000	-9.000	-9.000	967.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	295.2	2.0	0	0.00	43.	999.	2	NAD-SFC	NoSubs
10	4	18	108	15	102.3	0.075	1.430	0.009	1020.	50.	-1.0	0.0380	0.32	0.15	0.50	174.0	15.0	295.6	2.0	0	0.00	42.	999.	2	NAD-SFC	NoSubs
10	4	18	108	16	76.9	0.186	1.315	0.009	1055.	193.	-7.5	0.0380	0.32	0.16	2.10	165.0	15.0	295.4	2.0	0	0.00	46.	999.	3	NAD-SFC	NoSubs
10	4	18	108	17	44.8	0.271	1.105	0.010	1073.	339.	-39.8	0.0380	0.32	0.20	3.60	151.0	15.0	294.2	2.0	0	0.00	57.	999.	3	NAD-SFC	NoSubs
10	4	18	108	18	9.1	0.420	0.650	0.010	1074.	653.	-726.6	0.0380	0.32	0.33	6.20	155.0	15.0	292.0	2.0	0	0.00	71.	1000.	3	NAD-SFC	NoSubs
10	4	18	108	19	-31.1	0.301	-9.000	-9.000	-999.	405.	78.1	0.0460	0.32	1.00	4.60	149.0	15.0	291.0	2.0	0	0.00	78.	1001.	3	NAD-SFC	NoSubs
10	4	18	108	20	-24.1	0.233	-9.000	-9.000	-999.	271.	46.6	0.0460	0.32	1.00	3.60	139.0	15.0	290.5	2.0	0	0.00	81.	1001.	3	NAD-SFC	NoSubs
10	4	18	108	21	-24.1	0.233	-9.000	-9.000	-999.	269.	46.5	0.0460	0.32	1.00	3.60	139.0	15.0	290.0	2.0	0	0.00	84.	1001.	3	NAD-SFC	NoSubs
10	4	18	108	22	-23.3	0.225	-9.000	-9.000	-999.	256.	43.4	0.0380	0.32	1.00	3.60	159.0	15.0	289.8	2.0	0	0.00	85.	1001.	3	NAD-SFC	NoSubs
10	4	18	108	23	-11.8	0.154	-9.000	-9.000	-999.	147.	27.7	0.0330	0.32	1.00	2.60	183.0	15.0	289.8	2.0	0	0.00	85.	1001.	3	NAD-SFC	NoSubs
10	4	18	108	24	-2.2	0.076	-9.000	-9.000	-999.	52.	17.3	0.0330	0.32	1.00	1.00	180.0	15.0	289.8	2.0	0	0.00	83.	1000.	3	NAD-SFC	NoSubs
10	4	19	109	1	-11.5	0.160	-9.000	-9.000	-999.	154.	32.1	0.1280	0.32	1.00	2.10	35.0	15.0	289.6	2.0	0	0.00	84.	1001.	3	NAD-SFC	NoSubs
10	4	19	109	2	-27.0	0.269	-9.000	-9.000	-999.	335.	64.5	0.1900	0.32	1.00	3.10	29.0	15.0	289.2	2.0	0	0.00	85.	1001.	4	NAD-SFC	NoSubs
10	4	19	109	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	288.8	2.0	0	0.00	85.	1001.	4	NAD-SFC	NoSubs
10	4	19	109	4	-27.0	0.268	-9.000	-9.000	-999.	334.	63.9	0.1880	0.32	1.00	3.10	350.0	15.0	287.9	2.0	0	0.00	84.	1001.	4	NAD-SFC	NoSubs
10	4	19	109	5	-20.6	0.223	-9.000	-9.000	-999.	253.	47.8	0.1880	0.32	1.00	2.60	350.0	15.0	287.2	2.0	0	0.00	83.	1002.	4	NAD-SFC	NoSubs
10	4	19	109	6	-13.1	0.177	-9.000	-9.000	-999.	179.	37.6	0.1880	0.32	0.68	2.10	355.0	15.0	286.6	2.0	0	0.00	83.	1002.	4	NAD-SFC	NoSubs
10	4	19	109	7	13.0	0.209	0.327	0.005	96.	229.	-62.7	0.1620	0.32	0.30	2.10	316.0	15.0	287.2	2.0	0	0.00	75.	1003.	4	NAD-SFC	NoSubs
10	4	19	109	8	47.7	0.090	0.741	0.005	305.	74.	-1.4	0.1620	0.32	0.19	0.50	305.0	15.0	288.8	2.0	0	0.00	69.	1003.	4	NAD-SFC	NoSubs
10	4	19	109	9	79.4	-9.000	-9.000	-9.000	500.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	290.9	2.0	0	0.00	64.	1003.	3	NAD-SFC	NoSubs
10	4	19	109	10	104.3	-9.000	-9.000	-9.000	654.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	292.6	2.0	0	0.00	59.	1002.	3	NAD-SFC	NoSubs
10	4	19	109	11	121.4	-9.000	-9.000	-9.000	760.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	294.1	2.0	0	0.00	53.	1002.	3	NAD-SFC	NoSubs
10	4	19	109	12	129.8	-9.000	-9.000	-9.000	859.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	295.5	2.0	0	0.00	47.	1001.	3	NAD-SFC	NoSubs
10	4	19	109	13	129.7	-9.000	-9.000	-9.000	948.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	296.6	2.0	0	0.00	43.	1000.	3	NAD-SFC	NoSubs
10	4	19	109	14	120.8	-9.000	-9.000	-9.000	1073.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	297.4	2.0	0	0.00	40.	1000.	3	NAD-SFC	NoSubs
10	4	19	109	15	103.3	-9.000	-9.000	-9.000	1188.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	297.8	2.0	0	0.00	40.	999.	3	NAD-SFC	NoSubs
10	4	19	109	16	77.9	0.108	1.404	0.005	1266.	86.	-1.5	0.0310	0.32	0.16	1.00	268.0	15.0	297.6	2.0	0	0.00	42.	999.	3	NAD-SFC	NoSubs
10	4	19	109	17	46.1	0.158	1.192	0.005	1310.	150.	-7.6	0.0780	0.32	0.19	1.50	270.0	15.0	297.5	2.0	0	0.00	45.	999.	3	NAD-SFC	NoSubs
10	4	19	109	18	10.4	0.338	0.725	0.005	1313.	472.	-332.8	0.0310	0.32	0.32	5.10	256.0	15.0	295.5	2.0	0	0.00	52.	1000.	3	NAD-SFC	NoSubs
10	4	19	109	19	-38.1	0.370	-9.000	-9.000	-999.	540.	118.8	0.0780	0.32	1.00	5.10	273.0	15.0	292.1	2.0	0	0.00	56.	1001.	3	NAD-SFC	NoSubs
10	4	19	109	20	-29.2	0.281	-9.000	-9.000	-999.	362.	67.8	0.0310	0.32	1.00	4.60	268.0	15.0	290.0	2.0	0	0.00	59.	1002.	3	NAD-SFC	NoSubs
10	4	19	109	21	-30.7	0.295	-9.000	-9.000	-999.	384.	74.5	0.0780	0.32	1.00	4.10	285.0	15.0	288.9	2.0	0	0.00	62.	1002.	3	NAD-SFC	NoSubs
10	4	19	109	22	-15.2	0.182	-9.000	-9.000	-999.	192.	35.1	0.0780	0.32	1.00	2.60	294.0	15.0	288.2	2.0	0	0.00	66.	1003.	3	NAD-SFC	NoSubs
10	4	19	109	23	-6.8	0.125	-9.000	-9.000	-999.	107.	25.6	0.1900	0.32	1.00	1.50	10.0	15.0	288.2	2.0	0	0.00	67.	1004.	3	NAD-SFC	NoSubs
10	4	19	109	24	-6.8	0.125	-9.000	-9.000	-999.	106.	25.6	0.1900	0.32	1.00	1.50	19.0	15.0	288.0	2.0	0	0.00	70.	1004.	3	NAD-SFC	NoSubs
10	4	20	110	1	-6.4	0.120	-9.000	-9.000	-999.	100.	24.3	0.1620	0.32	1.00	1.50	319.0	15.0	287.6	2.0	0	0.00	72.	1004.	3	NAD-SFC	NoSubs
10	4	20	110	2	-11.7	0.153	-9.000	-9.000	-999.	143.	27.2	0.0310	0.32	1.00	2.60	268.0	15.0	287.2	2.0	0	0.00	75.	1004.	3	NAD-SFC	NoSubs
10	4	20	110	3	-16.7	0.185	-9.000	-9.000	-999.	191.	34.1	0.0310	0.32	1.00	3.10	259.0	15.0	286.8	2.0	0	0.00	78.	1005.	4	NAD-SFC	NoSubs
10	4	20	110	4	-21.0	0.217	-9.000	-9.000	-999.	243.	43.8	0.0310	0.32	1.00	3.60	263.0	15.0	286.2	2.0	0	0.00	81.	1005.	5	NAD-SFC	NoSubs
10	4	20	110	5	-8.7	0.157	-9.000	-9.000	-999.	150.	39.8	0.0310	0.32	1.00	2.60	265.0	15.0	286.1	2.0	0	0.00	84.	1005.	10	NAD-SFC	NoSubs
10	4	20	110	6	-5.6	0.125	-9.000	-9.000	-999.	106.	31.1	0.0310	0.32	0.66	2.10	264.0	15.0	286.1	2.0	0	0.00	85.	1005.	10	NAD-SFC	NoSubs
10	4	20	110	7	1.2	0.106	0.205	0.005	260.	82.	-89.3	0.0340	0.32	0.30	1.50	229.0	15.0	286.2	2.0	0	0.00	84.	1006.	10	NAD-SFC	NoSubs
10	4	20	110	8	10.1	0.122	0.484	0.005	399.	103.	-16.2	0.0380	0.32	0.19	1.50	168.0	15.0	286.6	2.0	0	0.00	78.	1006.	10	NAD-SFC	NoSubs
10	4	20	110	9	76.2	0.192	1.008	0.005	482.	202.	-8.3	0.0460	0.32	0.15	2.10	143.0	15.0	287.5	2.0	0	0.00	71.	1005.	5	NAD-SFC	NoSubs
10	4	20	110	10	24.7	0.175	0.704	0.005	507.	176.	-19.4	0.0460	0.32	0.14	2.10	134.0	15.0	289.2	2.0	0	0.00	62.	1005.	10	NAD-SFC	NoSubs
10	4	20	110	11	97.1	0.229	1.171	0.005	593.	264.	-11.1	0.0460	0.32	0.14	2.60	127.0	15.0	290.0	2.0	0	0.00	57.	1004.	7	NAD-SFC	NoSubs
10	4	20	110	12	115.5	0.118	1.373	0.005	803.	103.	-1.3	0.0380	0.32	0.14	1.00	165.0	15.0	290.8	2.0	0	0.00	54.	1003.	6	NAD-SFC	NoSubs
10	4	20	110	13	127.0	0.076	1.538	0.006	1026.	50.	-1.0	0.0340	0.32	0.14	0.50	216.0	15.0	291.4	2.0	0	0.25	48.	1002.	4	NAD-SFC	NoSubs
10	4	20	110	14	119.9	0.188	1.546	0.006	1101.	196.	-5.0	0.0310	0.32	0.14	2.10	246.0	15.0	292.0	2.0	0	0.00	42.	1001.	3	NAD-SFC	NoSubs
10	4	20	110	15	102.3	0.470	1.493	0.006	1161.	773.	-90.4	0.0780	0.32	0.15	5.70	273.0	15.0	292.2	2.0	0	0.00	36.	1000.	3	NAD-SFC	NoSubs
10	4	20	110	16	76.9	0.607	1.373	0.006	1203.	1133.	-259.3	0.0780	0.32	0.16	7.70	273.0	15.0	291.6	2.0	0	0.00	33.	1000.	3	NAD-SFC	NoSubs
10	4	20	110	17	44.7	0.526	1.153	0.006	1225.	924.	-290.7	0.0780	0.32	0.19	6.70	272.0	15.0	289.9	2.0	0	0.00	42.	1000.	3	NAD-SFC	NoSubs
10	4	20	110	18	9.1	0.375	0.679	0.006	1226.	571.	-516.5	0.0310	0.32	0.32	5.70	259.0	15.0	287.8	2.0	0	0.00	54.	1001.	3	NAD-SFC	NoSubs
10	4	20	110	19	-33.0	0.313	-9.000	-9.000	-999.	422.	82.8	0.0310	0.32	1.00	5.10	263.0	15.0	285.5	2.0	0	0.00	62.	1002.	3	NAD-SFC	NoSubs
10	4	20	110	20	-29.8	0.281	-9.000	-9.000	-999.	357.	66.4	0.0310	0.32	1.00	4.60	256.0	15.0	284.1	2.0	0	0.00	68.	1002.	3	NAD-SFC	NoSubs
10	4	20	110	21	-26.5	0.249	-9.000	-9.000	-999.	298.	52.0	0.0310	0.32	1.00	4.10	252.0	15.0	283.1	2.0	0	0.00	74.	1003.	3	NAD-SFC	NoSubs
10	4	20	110	22	-26.6	0.249	-9.000	-9.000	-999.	298.	51.9	0.0310	0.32	1.00	4.10	258.0	15.0	282.4	2.0	0	0.00	77.	1003.	3	NAD-SFC	NoSubs
10	4	20	110	23	-23.2	0.217	-9.000	-9.000	-999.	243.	39.4	0.0310	0.32	1.00	3.60	261.0	15.0	282.2	2.0	0	0.00	77.	1003.	3	NAD-SFC	NoSubs
10	4	20	110	24	-23.1	0.217	-9.000	-9.000	-999.	242.	39.4	0.0310	0.32	1.00	3.60	265.0	15.0	282.4	2.0	0	0.00	75.	1002.	3	NAD-SFC	NoSubs
10	4	21	111	1	-22.3	0.217	-9.000	-9.000	-999.	243.	41.0	0.0310	0.32	1.00	3.60	260.0	15.0	282.4	2.0	0	0.00	75.	1002.	4	NAD-SFC	NoSubs
10	4	21	111	2	-25.6	0.249	-9.000	-9.000	-999.	298.	53.8	0.0310	0.32	1.00	4.10	265.0	15.0	281.8	2.0	0	0.00	75.	1002.	4	NAD-SFC	NoSubs
10	4	21	111	3	-28.9	0.295	-9.000	-9.000	-999.	385.	79.4	0.0780	0.32	1.00	4.10	273.0	15.0	281.4	2.0	0	0.51	76.	1001.	5	NAD-SFC	NoSubs
10	4	21	111	4	-27.6	0.281	-9.000	-9.000	-999.	358.	72.0	0.0310	0.32	1.00	4.60	266.0	15.0	281.2	2.0	0	0.76	76.	1001.	5	NAD-SFC	NoSubs
10	4	21	111	5	-27.6	0.281	-9.000	-9.000	-999.	358.	72.0	0.0310	0.32	1.00	4.60	268.0	15.0	281.1	2.0	0	0.76	76.	1001.	5	NAD-SFC	NoSubs
10	4	21	111	6	-23.7	0.250	-9.000	-9.000	-999.	300.	58.6	0.0310	0.32	0.65	4.10	266.0	15.0	280.9	2.0	0	0.76	77.	1001.	5	NAD-SFC	NoSubs
10	4	21	111	7	13.7	0.289	0.411	0.005	181.	372.	-157.2	0.0780	0.32	0.29	3.60	277.0	15.0	281.5	2.0	0	0.76	75.	1002.	5	NAD-SFC	NoSubs

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10  4 21 111  8   39.7  0.452  0.741  0.005  367.  730.   -208.5  0.0780  0.32  0.19   5.70  299.0  15.0  283.4  2.0   0  0.51   65.  1002.    7 NAD-SFC NoSubs
10  4 21 111  9   17.9  0.461  0.602  0.005  436.  752.   -490.0  0.1620  0.32  0.15   5.10  307.0  15.0  284.6  2.0   0  0.76   56.  1001.   10 NAD-SFC NoSubs
10  4 21 111 10   83.6  0.404  1.174  0.005  692.  619.    -70.5  0.1620  0.32  0.14   4.10  314.0  15.0  285.2  2.0   0  0.76   53.  1001.    7 NAD-SFC NoSubs
10  4 21 111 11  115.1  0.373  1.444  0.005  933.  547.    -40.0  0.1620  0.32  0.14   3.60  300.0  15.0  286.1  2.0   0  0.76   51.  1000.    5 NAD-SFC NoSubs
10  4 21 111 12  127.1  0.363  1.614  0.005 1180.  525.    -33.5  0.0780  0.32  0.14   4.10  296.0  15.0  287.0  2.0   0  0.51   47.   999.    4 NAD-SFC NoSubs
10  4 21 111 13  126.7  0.433  1.699  0.005 1379.  682.    -56.9  0.0780  0.32  0.14   5.10  293.0  15.0  287.8  2.0   0  0.51   46.   998.    4 NAD-SFC NoSubs
10  4 21 111 14  117.9  0.473  1.712  0.005 1516.  780.    -79.8  0.0780  0.32  0.14   5.70  288.0  15.0  288.2  2.0   0  0.25   45.   997.    4 NAD-SFC NoSubs
10  4 21 111 15  100.6  0.470  1.662  0.005 1623.  772.    -91.3  0.0780  0.32  0.15   5.70  293.0  15.0  288.2  2.0   0  0.25   47.   996.    4 NAD-SFC NoSubs
10  4 21 111 16   75.8  0.463  1.536  0.005 1699.  758.   -116.5  0.0780  0.32  0.16   5.70  299.0  15.0  288.1  2.0   0  0.25   49.   995.    4 NAD-SFC NoSubs
10  4 21 111 17   43.6  0.305  1.288  0.005 1741.  424.    -57.7  0.0780  0.32  0.19   3.60  294.0  15.0  287.9  2.0   0  0.00   55.   995.    5 NAD-SFC NoSubs
10  4 21 111 18   10.5  0.250  0.802  0.005 1749.  303.   -133.3  0.0780  0.32  0.32   3.10  284.0  15.0  287.4  2.0   0  0.00   59.   995.    5 NAD-SFC NoSubs
10  4 21 111 19  -30.0  0.313 -9.000 -9.000 -999.  421.     90.9  0.0310  0.32  0.73   5.10  263.0  15.0  286.2  2.0   0  0.00   63.   996.    5 NAD-SFC NoSubs
10  4 21 111 20  -53.8  0.530 -9.000 -9.000 -999.  927.    246.2  0.0780  0.32  1.00   7.20  278.0  15.0  284.2  2.0   0  0.00   69.   996.    4 NAD-SFC NoSubs
10  4 21 111 21  -44.0  0.454 -9.000 -9.000 -999.  740.    189.2  0.0780  0.32  1.00   6.20  279.0  15.0  283.2  2.0   0  0.00   72.   997.    5 NAD-SFC NoSubs
10  4 21 111 22  -37.9  0.417 -9.000 -9.000 -999.  647.    169.6  0.0780  0.32  1.00   5.70  280.0  15.0  282.8  2.0   0  0.00   74.   997.    6 NAD-SFC NoSubs
10  4 21 111 23  -23.4  0.421 -9.000 -9.000 -999.  656.    283.9  0.0780  0.32  1.00   5.70  279.0  15.0  282.5  2.0   0  0.00   75.   998.   10 NAD-SFC NoSubs
10  4 21 111 24  -20.8  0.375 -9.000 -9.000 -999.  553.    225.0  0.0780  0.32  1.00   5.10  277.0  15.0  282.4  2.0   0  0.00   76.   997.   10 NAD-SFC NoSubs
10  4 22 112  1  -14.5  0.261 -9.000 -9.000 -999.  328.    108.8  0.0780  0.32  1.00   3.60  270.0  15.0  282.2  2.0   0  0.00   77.   997.   10 NAD-SFC NoSubs
10  4 22 112  2   -2.8  0.087 -9.000 -9.000 -999.  101.     20.8  0.0310  0.32  1.00   1.50  250.0  15.0  282.2  2.0   0  0.00   78.   997.   10 NAD-SFC NoSubs
10  4 22 112  3   -1.4  0.063 -9.000 -9.000 -999.   39.     16.4  0.0340  0.32  1.00   1.00  226.0  15.0  282.4  2.0   0  0.00   79.   998.   10 NAD-SFC NoSubs
10  4 22 112  4   -0.6  0.051 -9.000 -9.000 -999.   28.     21.5  0.0340  0.32  1.00   0.50  237.0  15.0  282.6  2.0   0  0.00   78.   997.   10 NAD-SFC NoSubs
10  4 22 112  5   -1.4  0.063 -9.000 -9.000 -999.   38.     16.4  0.0340  0.32  1.00   1.00  230.0  15.0  282.6  2.0   0  0.00   77.   997.   10 NAD-SFC NoSubs
10  4 22 112  6   -1.3  0.063 -9.000 -9.000 -999.   38.     16.4  0.0340  0.32  0.64   1.00  217.0  15.0  282.6  2.0   0  0.00   78.   998.   10 NAD-SFC NoSubs
10  4 22 112  7    1.0  0.121  0.114  0.005   50.  100.   -149.8  0.0780  0.32  0.29   1.50  275.0  15.0  282.8  2.0   0  0.00   74.   998.   10 NAD-SFC NoSubs
10  4 22 112  8   10.1  0.064  0.370  0.005  179.   39.     -2.3  0.0780  0.32  0.18   0.50  271.0  15.0  283.8  2.0   0  0.00   67.   999.   10 NAD-SFC NoSubs
10  4 22 112  9   18.1 -9.000 -9.000 -9.000  292. -999. -99999.0  0.0879  0.32  0.15   0.00    0.0  15.0  285.1  2.0   0  0.00   63.   998.   10 NAD-SFC NoSubs
10  4 22 112 10   24.4 -9.000 -9.000 -9.000  398. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  286.0  2.0   0  0.00   60.   998.   10 NAD-SFC NoSubs
10  4 22 112 11   80.9 -9.000 -9.000 -9.000  721. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  287.0  2.0   0  0.00   56.   998.    8 NAD-SFC NoSubs
10  4 22 112 12  123.4 -9.000 -9.000 -9.000  904. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  288.5  2.0   0  0.00   50.   997.    5 NAD-SFC NoSubs
10  4 22 112 13  127.4 -9.000 -9.000 -9.000 1029. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  289.8  2.0   0  0.00   46.   997.    4 NAD-SFC NoSubs
10  4 22 112 14  118.7 -9.000 -9.000 -9.000 1115. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  290.5  2.0   0  0.00   43.   996.    4 NAD-SFC NoSubs
10  4 22 112 15  102.9  0.095  1.508  0.005 1185.   70.     -1.0  0.1280  0.32  0.14   0.50   40.0  15.0  291.2  2.0   0  0.00   41.   996.    3 NAD-SFC NoSubs
10  4 22 112 16   77.6  0.099  1.392  0.005 1235.   75.     -1.1  0.1900  0.32  0.16   0.50   21.0  15.0  291.6  2.0   0  0.00   40.   996.    3 NAD-SFC NoSubs
10  4 22 112 17   45.9  0.142  1.177  0.005 1264.  128.     -5.5  0.1900  0.32  0.19   1.00   19.0  15.0  291.8  2.0   0  0.00   40.   996.    3 NAD-SFC NoSubs
10  4 22 112 18   10.7  0.071  0.726  0.005 1269.   47.     -2.9  0.1280  0.32  0.32   0.50   33.0  15.0  291.6  2.0   0  0.00   42.   997.    3 NAD-SFC NoSubs
10  4 22 112 19   -1.4  0.079 -9.000 -9.000 -999.   53.     30.9  0.1900  0.32  0.72   0.50    9.0  15.0  290.8  2.0   0  0.00   47.   997.    3 NAD-SFC NoSubs
10  4 22 112 20   -1.3  0.076 -9.000 -9.000 -999.   50.     30.0  0.1280  0.32  1.00   0.50   44.0  15.0  289.4  2.0   0  0.00   52.   998.    3 NAD-SFC NoSubs
10  4 22 112 21   -1.0  0.066 -9.000 -9.000 -999.   41.     26.6  0.0330  0.32  1.00   0.50  196.0  15.0  288.0  2.0   0  0.00   58.   998.    3 NAD-SFC NoSubs
10  4 22 112 22   -7.7  0.124 -9.000 -9.000 -999.  104.     21.8  0.0340  0.32  1.00   2.10  218.0  15.0  286.6  2.0   0  0.00   65.   999.    3 NAD-SFC NoSubs
10  4 22 112 23   -2.3  0.076 -9.000 -9.000 -999.   51.     17.4  0.0330  0.32  1.00   1.00  194.0  15.0  285.8  2.0   0  0.00   70.  1000.    3 NAD-SFC NoSubs
10  4 22 112 24   -4.2  0.093 -9.000 -9.000 -999.   68.     17.1  0.0380  0.32  1.00   1.50  157.0  15.0  285.1  2.0   0  0.00   74.  1000.    3 NAD-SFC NoSubs
10  4 23 113  1   -8.4  0.130 -9.000 -9.000 -999.  113.     23.5  0.0460  0.32  1.00   2.10  146.0  15.0  284.2  2.0   0  0.00   78.  1000.    3 NAD-SFC NoSubs
10  4 23 113  2  -12.4  0.158 -9.000 -9.000 -999.  151.     28.4  0.0380  0.32  1.00   2.60  150.0  15.0  283.5  2.0   0  0.00   80.  1001.    3 NAD-SFC NoSubs
10  4 23 113  3   -8.0  0.126 -9.000 -9.000 -999.  107.     22.3  0.0380  0.32  1.00   2.10  150.0  15.0  283.0  2.0   0  0.00   80.  1001.    3 NAD-SFC NoSubs
10  4 23 113  4   -4.4  0.096 -9.000 -9.000 -999.   71.     17.8  0.0460  0.32  1.00   1.50  147.0  15.0  282.5  2.0   0  0.00   80.  1002.    3 NAD-SFC NoSubs
10  4 23 113  5   -2.4  0.078 -9.000 -9.000 -999.   52.     17.7  0.0380  0.32  1.00   1.00  160.0  15.0  282.1  2.0   0  0.00   80.  1002.    3 NAD-SFC NoSubs
10  4 23 113  6   -1.0  0.066 -9.000 -9.000 -999.   40.     26.3  0.0330  0.32  0.63   0.50  201.0  15.0  281.8  2.0   0  0.00   82.  1003.    3 NAD-SFC NoSubs
10  4 23 113  7   14.5  0.077  0.291  0.011   60.   51.     -2.8  0.1620  0.32  0.29   0.50  310.0  15.0  283.2  2.0   0  0.00   78.  1004.    3 NAD-SFC NoSubs
10  4 23 113  8   50.0 -9.000 -9.000 -9.000  165. -999. -99999.0  0.0879  0.32  0.18   0.00    0.0  15.0  286.0  2.0   0  0.00   68.  1004.    3 NAD-SFC NoSubs
10  4 23 113  9   81.3 -9.000 -9.000 -9.000  291. -999. -99999.0  0.0879  0.32  0.15   0.00    0.0  15.0  288.2  2.0   0  0.00   59.  1005.    3 NAD-SFC NoSubs
10  4 23 113 10  105.8 -9.000 -9.000 -9.000  422. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  289.9  2.0   0  0.00   53.  1004.    2 NAD-SFC NoSubs
10  4 23 113 11  122.6 -9.000 -9.000 -9.000  611. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  291.2  2.0   0  0.00   49.  1004.    3 NAD-SFC NoSubs
10  4 23 113 12  130.8 -9.000 -9.000 -9.000  854. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  292.8  2.0   0  0.00   44.  1003.    3 NAD-SFC NoSubs
10  4 23 113 13  130.6  0.089  1.591  0.005 1106.   64.     -1.0  0.0780  0.32  0.14   0.50  292.0  15.0  294.0  2.0   0  0.00   39.  1003.    3 NAD-SFC NoSubs
10  4 23 113 14  121.7  0.105  1.654  0.008 1330.   82.     -1.0  0.1880  0.32  0.14   0.50  337.0  15.0  295.0  2.0   0  0.00   37.  1002.    3 NAD-SFC NoSubs
10  4 23 113 15  104.3  0.204  1.589  0.008 1378.  221.     -7.3  0.1900  0.32  0.14   1.50   11.0  15.0  295.8  2.0   0  0.00   36.  1002.    3 NAD-SFC NoSubs
10  4 23 113 16   79.1  0.291  1.460  0.008 1409.  377.    -27.9  0.1900  0.32  0.16   2.60    9.0  15.0  296.0  2.0   0  0.00   36.  1002.    3 NAD-SFC NoSubs
10  4 23 113 17   47.3  0.280  1.236  0.007 1426.  355.    -41.3  0.1900  0.32  0.19   2.60   21.0  15.0  295.9  2.0   0  0.00   39.  1002.    3 NAD-SFC NoSubs
10  4 23 113 18   12.1  0.165  0.785  0.007 1431.  168.    -33.2  0.1900  0.32  0.31   1.50   29.0  15.0  295.6  2.0   0  0.00   46.  1002.    3 NAD-SFC NoSubs
10  4 23 113 19   -1.4  0.079 -9.000 -9.000 -999.   57.     31.0  0.1900  0.32  0.71   0.50   26.0  15.0  294.6  2.0   0  0.00   48.  1003.    2 NAD-SFC NoSubs
10  4 23 113 20   -1.0  0.067 -9.000 -9.000 -999.   41.     26.7  0.0340  0.32  1.00   0.50  235.0  15.0  293.1  2.0   0  0.00   54.  1004.    2 NAD-SFC NoSubs
10  4 23 113 21   -1.0  0.067 -9.000 -9.000 -999.   42.     26.8  0.0340  0.32  1.00   0.50  217.0  15.0  291.4  2.0   0  0.00   60.  1004.    2 NAD-SFC NoSubs
10  4 23 113 22   -2.3  0.076 -9.000 -9.000 -999.   51.     17.4  0.0330  0.32  1.00   1.00  200.0  15.0  290.1  2.0   0  0.00   65.  1005.    2 NAD-SFC NoSubs
10  4 23 113 23   -4.3  0.093 -9.000 -9.000 -999.   68.     17.1  0.0380  0.32  1.00   1.50  162.0  15.0  288.9  2.0   0  0.00   67.  1006.    2 NAD-SFC NoSubs
10  4 23 113 24   -4.5  0.096 -9.000 -9.000 -999.   71.     17.7  0.0460  0.32  1.00   1.50  130.0  15.0  288.0  2.0   0  0.00   69.  1006.    2 NAD-SFC NoSubs
10  4 24 114  1   -2.5  0.079 -9.000 -9.000 -999.   54.     18.2  0.0460  0.32  1.00   1.00  134.0  15.0  287.2  2.0   0  0.00   71.  1006.    2 NAD-SFC NoSubs
10  4 24 114  2   -2.8  0.084 -9.000 -9.000 -999.   59.     19.4  0.0780  0.32  1.00   1.00  292.0  15.0  286.8  2.0   0  0.00   73.  1006.    2 NAD-SFC NoSubs
10  4 24 114  3  -12.9  0.170 -9.000 -9.000 -999.  168.     34.0  0.1620  0.32  1.00   2.10  301.0  15.0  286.1  2.0   0  0.00   74.  1007.    2 NAD-SFC NoSubs
10  4 24 114  4  -15.6  0.181 -9.000 -9.000 -999.  185.     34.4  0.0780  0.32  1.00   2.60  296.0  15.0  285.2  2.0   0  0.00   77.  1007.    2 NAD-SFC NoSubs
10  4 24 114  5  -20.1  0.214 -9.000 -9.000 -999.  237.     43.5  0.1620  0.32  1.00   2.60  307.0  15.0  284.5  2.0   0  0.00   79.  1007.    2 NAD-SFC NoSubs
10  4 24 114  6  -12.6  0.170 -9.000 -9.000 -999.  169.     35.1  0.1620  0.32  0.62   2.10  311.0  15.0  284.1  2.0   0  0.00   79.  1008.    2 NAD-SFC NoSubs
10  4 24 114  7   14.6  0.251  0.302  0.007   68.  301.    -97.1  0.1620  0.32  0.28   2.60  326.0  15.0  285.5  2.0   0  0.00   70.  1009.    2 NAD-SFC NoSubs
10  4 24 114  8   50.3  0.188  0.609  0.008  162.  196.    -11.8  0.1880  0.32  0.18   1.50  341.0  15.0  287.6  2.0   0  0.00   60.  1009.    2 NAD-SFC NoSubs
10  4 24 114  9   81.8 -9.000 -9.000 -9.000  279. -999. -99999.0  0.0879  0.32  0.15   0.00    0.0  15.0  289.8  2.0   0  0.00   52.  1009.    2 NAD-SFC NoSubs
10  4 24 114 10  106.7 -9.000 -9.000 -9.000  403. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  291.5  2.0   0  0.00   47.  1008.    2 NAD-SFC NoSubs
10  4 24 114 11  123.6 -9.000 -9.000 -9.000  569. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  293.2  2.0   0  0.00   42.  1008.    2 NAD-SFC NoSubs
10  4 24 114 12  131.9  0.103  1.391  0.006  733.   79.     -1.0  0.1620  0.32  0.14   0.50  303.0  15.0  294.8  2.0   0  0.00   37.  1007.    2 NAD-SFC NoSubs
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10  4 24 114 13   131.6  0.156  1.491  0.007  904.  148.     -2.6  0.1620  0.32  0.14  1.00  309.0  15.0  296.0  2.0  0  0.00  34.  1006.  2 NAD-SFC NoSubs
10  4 24 114 14   122.7  0.259  1.511  0.007 1010.  317.    -12.8  0.1880  0.32  0.14  2.10  332.0  15.0  296.9  2.0  0  0.00  31.  1006.  2 NAD-SFC NoSubs
10  4 24 114 15   105.1  0.340  1.464  0.007 1072.  475.    -33.4  0.1880  0.32  0.14  3.10  348.0  15.0  297.5  2.0  0  0.00  29.  1005.  2 NAD-SFC NoSubs
10  4 24 114 16    79.6  0.415  1.352  0.007 1115.  642.    -80.6  0.1880  0.32  0.16  4.10  360.0  15.0  297.5  2.0  0  0.00  30.  1005.  2 NAD-SFC NoSubs
10  4 24 114 17    47.3 -9.000 -9.000 -9.000 1139. -999. -99999.0  0.0879  0.32  0.19  0.00    0.0  15.0  296.8  2.0  0  0.00  41.  1006.  2 NAD-SFC NoSubs
10  4 24 114 18    11.7  0.298  0.719  0.007 1143.  391.    -204.1  0.1880  0.32  0.31  3.10  352.0  15.0  295.9  2.0  0  0.00  46.  1006.  2 NAD-SFC NoSubs
10  4 24 114 19   -37.7  0.359 -9.000 -9.000 -999.  517.    110.4  0.1880  0.32  0.70  4.10  331.0  15.0  294.6  2.0  0  0.00  49.  1006.  2 NAD-SFC NoSubs
10  4 24 114 20   -36.7  0.346 -9.000 -9.000 -999.  489.    101.4  0.1620  0.32  1.00  4.10  319.0  15.0  292.6  2.0  0  0.00  55.  1006.  2 NAD-SFC NoSubs
10  4 24 114 21   -32.2  0.302 -9.000 -9.000 -999.  400.     77.0  0.1620  0.32  1.00  3.60  308.0  15.0  291.5  2.0  0  0.00  58.  1006.  2 NAD-SFC NoSubs
10  4 24 114 22   -27.6  0.258 -9.000 -9.000 -999.  316.     56.0  0.1620  0.32  1.00  3.10  310.0  15.0  290.6  2.0  0  0.00  60.  1007.  2 NAD-SFC NoSubs
10  4 24 114 23   -20.0  0.214 -9.000 -9.000 -999.  238.     44.0  0.1620  0.32  1.00  2.60  315.0  15.0  289.6  2.0  0  0.00  63.  1007.  2 NAD-SFC NoSubs
10  4 24 114 24   -20.0  0.214 -9.000 -9.000 -999.  237.     43.9  0.1620  0.32  1.00  2.60  310.0  15.0  288.5  2.0  0  0.00  65.  1007.  2 NAD-SFC NoSubs
10  4 25 115  1    -6.5  0.120 -9.000 -9.000 -999.  104.     24.1  0.1620  0.32  1.00  1.50  322.0  15.0  287.5  2.0  0  0.00  68.  1007.  2 NAD-SFC NoSubs
10  4 25 115  2  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  287.1  2.0  0  0.00  69.  1008.  2 NAD-SFC NoSubs
10  4 25 115  3    -1.5  0.080 -9.000 -9.000 -999.   55.     31.3  0.1900  0.32  1.00  0.50    8.0  15.0  286.8  2.0  0  0.00  69.  1008.  2 NAD-SFC NoSubs
10  4 25 115  4    -1.4  0.079 -9.000 -9.000 -999.   53.     30.9  0.1620  0.32  1.00  0.50  306.0  15.0  286.2  2.0  0  0.00  70.  1008.  2 NAD-SFC NoSubs
10  4 25 115  5    -2.8  0.084 -9.000 -9.000 -999.   59.     19.4  0.0780  0.32  1.00  1.00  282.0  15.0  285.6  2.0  0  0.00  72.  1009.  2 NAD-SFC NoSubs
10  4 25 115  6    -5.0  0.104 -9.000 -9.000 -999.   80.     20.3  0.0780  0.32  0.60  1.50  274.0  15.0  285.0  2.0  0  0.00  72.  1009.  2 NAD-SFC NoSubs
10  4 25 115  7    15.3  0.106  0.329  0.009   84.   83.     -7.0  0.0780  0.32  0.28  1.00  288.0  15.0  285.9  2.0  0  0.00  67.  1009.  2 NAD-SFC NoSubs
10  4 25 115  8    51.0 -9.000 -9.000 -9.000  256. -999. -99999.0  0.0879  0.32  0.18  0.00    0.0  15.0  288.0  2.0  0  0.00  59.  1009.  2 NAD-SFC NoSubs
10  4 25 115  9    82.4 -9.000 -9.000 -9.000  332. -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0  289.9  2.0  0  0.00  51.  1009.  2 NAD-SFC NoSubs
10  4 25 115 10   107.2 -9.000 -9.000 -9.000  430. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  291.8  2.0  0  0.00  47.  1008.  2 NAD-SFC NoSubs
10  4 25 115 11   124.2 -9.000 -9.000 -9.000  570. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  293.8  2.0  0  0.00  40.  1007.  2 NAD-SFC NoSubs
10  4 25 115 12   132.5  0.089  1.368  0.007  694.   64.     -1.0  0.0780  0.32  0.14  0.50  280.0  15.0  295.6  2.0  0  0.00  36.  1006.  2 NAD-SFC NoSubs
10  4 25 115 13   132.3  0.103  1.440  0.008  809.   79.     -1.0  0.1620  0.32  0.14  0.50  323.0  15.0  297.2  2.0  0  0.00  32.  1005.  2 NAD-SFC NoSubs
10  4 25 115 14   123.4  0.207  1.460  0.008  904.  226.     -6.4  0.1880  0.32  0.14  1.50  345.0  15.0  298.2  2.0  0  0.00  30.  1004.  2 NAD-SFC NoSubs
10  4 25 115 15   105.8  0.298  1.424  0.008  977.  390.    -22.3  0.1880  0.32  0.14  2.60  351.0  15.0  298.8  2.0  0  0.00  30.  1003.  2 NAD-SFC NoSubs
10  4 25 115 16    80.4  0.374  1.319  0.008 1020.  548.    -58.0  0.1880  0.32  0.15  3.60  352.0  15.0  299.2  2.0  0  0.00  33.  1002.  2 NAD-SFC NoSubs
10  4 25 115 17    48.3  0.279  1.122  0.008 1044.  359.    -40.3  0.1880  0.32  0.19  2.60  359.0  15.0  298.8  2.0  0  0.00  42.  1002.  2 NAD-SFC NoSubs
10  4 25 115 18    12.7  0.299  0.719  0.008 1049.  393.   -188.9  0.1880  0.32  0.31  3.10  354.0  15.0  298.0  2.0  0  0.00  46.  1002.  2 NAD-SFC NoSubs
10  4 25 115 19   -20.8  0.222 -9.000 -9.000 -999.  254.     47.2  0.1880  0.32  0.69  2.60  344.0  15.0  296.9  2.0  0  0.00  47.  1003.  2 NAD-SFC NoSubs
10  4 25 115 20    -6.4  0.120 -9.000 -9.000 -999.  105.     24.4  0.1620  0.32  1.00  1.50  300.0  15.0  295.6  2.0  0  0.00  49.  1003.  2 NAD-SFC NoSubs
10  4 25 115 21    -9.8  0.144 -9.000 -9.000 -999.  131.     27.3  0.0780  0.32  1.00  2.10  271.0  15.0  294.2  2.0  0  0.00  52.  1003.  2 NAD-SFC NoSubs
10  4 25 115 22   -17.0  0.185 -9.000 -9.000 -999.  191.     33.2  0.0310  0.32  1.00  3.10  256.0  15.0  292.8  2.0  0  0.00  55.  1004.  2 NAD-SFC NoSubs
10  4 25 115 23   -11.8  0.153 -9.000 -9.000 -999.  143.     27.0  0.0310  0.32  1.00  2.60  267.0  15.0  291.2  2.0  0  0.00  58.  1004.  2 NAD-SFC NoSubs
10  4 25 115 24    -2.7  0.084 -9.000 -9.000 -999.   60.     19.4  0.0780  0.32  1.00  1.00  284.0  15.0  290.0  2.0  0  0.00  62.  1003.  2 NAD-SFC NoSubs
10  4 26 116  1    -1.0  0.067 -9.000 -9.000 -999.   41.     26.6  0.0310  0.32  1.00  0.50  249.0  15.0  289.2  2.0  0  0.00  64.  1004.  2 NAD-SFC NoSubs
10  4 26 116  2    -2.7  0.084 -9.000 -9.000 -999.   59.     19.4  0.0780  0.32  1.00  1.00  293.0  15.0  288.9  2.0  0  0.00  65.  1004.  2 NAD-SFC NoSubs
10  4 26 116  3    -5.1  0.104 -9.000 -9.000 -999.   81.     19.9  0.0780  0.32  1.00  1.50  298.0  15.0  288.2  2.0  0  0.00  67.  1004.  2 NAD-SFC NoSubs
10  4 26 116  4   -12.8  0.170 -9.000 -9.000 -999.  168.     34.1  0.1620  0.32  1.00  2.10  302.0  15.0  287.6  2.0  0  0.00  70.  1004.  2 NAD-SFC NoSubs
10  4 26 116  5   -12.8  0.170 -9.000 -9.000 -999.  168.     34.1  0.1620  0.32  1.00  2.10  300.0  15.0  287.0  2.0  0  0.00  71.  1004.  2 NAD-SFC NoSubs
10  4 26 116  6    -4.9  0.104 -9.000 -9.000 -999.   81.     20.5  0.0780  0.32  0.59  1.50  272.0  15.0  286.5  2.0  0  0.00  70.  1005.  2 NAD-SFC NoSubs
10  4 26 116  7    16.3  0.212  0.340  0.010   87.  234.    -52.4  0.1620  0.32  0.28  2.10  305.0  15.0  287.8  2.0  0  0.00  63.  1005.  2 NAD-SFC NoSubs
10  4 26 116  8    51.9  0.139  0.619  0.012  164.  126.     -4.7  0.1620  0.32  0.18  1.00  300.0  15.0  289.6  2.0  0  0.00  53.  1005.  2 NAD-SFC NoSubs
10  4 26 116  9    83.4  0.071  0.845  0.009  259.   47.     -1.0  0.0310  0.32  0.15  0.50  262.0  15.0  292.0  2.0  0  0.00  45.  1004.  2 NAD-SFC NoSubs
10  4 26 116 10   108.2  0.073  1.030  0.007  361.   47.     -1.0  0.0310  0.32  0.14  0.50  256.0  15.0  294.0  2.0  0  0.00  40.  1003.  2 NAD-SFC NoSubs
10  4 26 116 11   125.2  0.088  1.201  0.005  495.   63.     -1.0  0.0780  0.32  0.14  0.50  295.0  15.0  296.1  2.0  0  0.00  34.  1003.  2 NAD-SFC NoSubs
10  4 26 116 12   133.5 -9.000 -9.000 -9.000  623. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  297.8  2.0  0  0.00  29.  1002.  2 NAD-SFC NoSubs
10  4 26 116 13   133.3 -9.000 -9.000 -9.000  801. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  299.2  2.0  0  0.00  26.  1001.  2 NAD-SFC NoSubs
10  4 26 116 14   124.4 -9.000 -9.000 -9.000  961. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  300.2  2.0  0  0.00  24.  1000.  2 NAD-SFC NoSubs
10  4 26 116 15   106.8  0.103  1.498  0.005 1124.   80.     -1.0  0.1900  0.32  0.14  0.50   20.0  15.0  300.8  2.0  0  0.00  24.   999.  2 NAD-SFC NoSubs
10  4 26 116 16    81.3  0.198  1.413  0.006 1236.  212.     -8.5  0.1900  0.32  0.15  1.50   24.0  15.0  300.9  2.0  0  0.00  24.   998.  2 NAD-SFC NoSubs
10  4 26 116 17    49.2  0.221  1.214  0.007 1296.  249.    -19.5  0.1280  0.32  0.19  2.10   35.0  15.0  300.2  2.0  0  0.00  33.   998.  2 NAD-SFC NoSubs
10  4 26 116 18    13.4  0.277  0.791  0.007 1308.  351.   -141.3  0.1280  0.32  0.31  3.10   35.0  15.0  299.2  2.0  0  0.00  38.   998.  2 NAD-SFC NoSubs
10  4 26 116 19    -6.3  0.120 -9.000 -9.000 -999.  121.     24.6  0.1620  0.32  0.69  1.50  306.0  15.0  298.1  2.0  0  0.00  41.   999.  2 NAD-SFC NoSubs
10  4 26 116 20   -32.7  0.313 -9.000 -9.000 -999.  420.     83.4  0.0310  0.32  1.00  5.10  266.0  15.0  295.0  2.0  0  0.00  51.   999.  2 NAD-SFC NoSubs
10  4 26 116 21   -29.6  0.281 -9.000 -9.000 -999.  357.     66.5  0.0310  0.32  1.00  4.60  268.0  15.0  292.1  2.0  0  0.00  58.  1000.  2 NAD-SFC NoSubs
10  4 26 116 22   -26.4  0.249 -9.000 -9.000 -999.  298.     52.0  0.0310  0.32  1.00  4.10  257.0  15.0  290.8  2.0  0  0.00  60.  1000.  2 NAD-SFC NoSubs
10  4 26 116 23   -17.0  0.185 -9.000 -9.000 -999.  192.     33.1  0.0310  0.32  1.00  3.10  267.0  15.0  290.0  2.0  0  0.00  60.  1001.  2 NAD-SFC NoSubs
10  4 26 116 24    -5.1  0.104 -9.000 -9.000 -999.   83.     19.9  0.0780  0.32  1.00  1.50  298.0  15.0  289.8  2.0  0  0.00  58.  1001.  2 NAD-SFC NoSubs
10  4 27 117  1    -1.3  0.077 -9.000 -9.000 -999.   51.     30.2  0.1280  0.32  1.00  0.50   49.0  15.0  289.6  2.0  0  0.00  57.  1001.  2 NAD-SFC NoSubs
10  4 27 117  2    -1.0  0.067 -9.000 -9.000 -999.   42.     26.8  0.0340  0.32  1.00  0.50  210.0  15.0  289.5  2.0  0  0.00  56.  1001.  2 NAD-SFC NoSubs
10  4 27 117  3    -1.0  0.067 -9.000 -9.000 -999.   42.     26.8  0.0330  0.32  1.00  0.50  199.0  15.0  289.2  2.0  0  0.00  56.  1001.  2 NAD-SFC NoSubs
10  4 27 117  4    -2.3  0.076 -9.000 -9.000 -999.   51.     17.4  0.0330  0.32  1.00  1.00  190.0  15.0  288.9  2.0  0  0.00  56.  1001.  2 NAD-SFC NoSubs
10  4 27 117  5    -2.3  0.077 -9.000 -9.000 -999.   51.     17.4  0.0330  0.32  1.00  1.00  207.0  15.0  288.6  2.0  0  0.00  56.  1001.  2 NAD-SFC NoSubs
10  4 27 117  6    -2.1  0.075 -9.000 -9.000 -999.   49.     17.3  0.0380  0.32  0.58  1.00  161.0  15.0  288.4  2.0  0  0.00  56.  1001.  2 NAD-SFC NoSubs
10  4 27 117  7    17.0  0.098  0.355  0.006   94.   74.     -5.0  0.0460  0.32  0.27  1.00  149.0  15.0  288.2  2.0  0  0.00  57.  1002.  2 NAD-SFC NoSubs
10  4 27 117  8    52.4 -9.000 -9.000 -9.000  282. -999. -99999.0  0.0879  0.32  0.18  0.00    0.0  15.0  288.9  2.0  0  0.00  52.  1002.  2 NAD-SFC NoSubs
10  4 27 117  9    83.6 -9.000 -9.000 -9.000  420. -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0  290.8  2.0  0  0.00  42.  1002.  2 NAD-SFC NoSubs
10  4 27 117 10   108.3 -9.000 -9.000 -9.000  562. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  292.6  2.0  0  0.00  33.  1002.  2 NAD-SFC NoSubs
10  4 27 117 11   125.2  0.088  1.343  0.006  693.   63.     -1.0  0.0760  0.32  0.14  0.50   72.0  15.0  294.4  2.0  0  0.00  29.  1002.  2 NAD-SFC NoSubs
10  4 27 117 12   133.1 -9.000 -9.000 -9.000  812. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  295.9  2.0  0  0.00  28.  1001.  3 NAD-SFC NoSubs
10  4 27 117 13   132.7  0.136  1.504  0.006  915.  120.     -1.7  0.0780  0.32  0.14  1.00  289.0  15.0  296.8  2.0  0  0.00  32.  1000.  3 NAD-SFC NoSubs
10  4 27 117 14   121.9  0.327  1.507  0.006 1002.  448.    -25.5  0.0780  0.32  0.14  3.60  286.0  15.0  296.9  2.0  0  0.00  40.  1000.  4 NAD-SFC NoSubs
10  4 27 117 15    85.4  0.283  1.363  0.006 1058.  363.    -23.8  0.0780  0.32  0.14  3.10  290.0  15.0  295.9  2.0  0  0.00  58.  1000.  7 NAD-SFC NoSubs
10  4 27 117 16    19.6  0.329  0.837  0.006 1069.  452.   -161.4  0.0780  0.32  0.15  4.10  278.0  15.0  295.0  2.0  0  0.00  63.  1000. 10 NAD-SFC NoSubs
10  4 27 117 17    40.3  0.304  1.072  0.006 1093.  402.    -62.0  0.0780  0.32  0.19  3.60  278.0  15.0  294.2  2.0  0  0.00  69.  1001.  7 NAD-SFC NoSubs
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10	4	27	117	18	13.8	0.361	0.752	0.006	1098.	520.	-303.2	0.0780	0.32	0.30	4.60	274.0	15.0	292.4	2.0	0	0.00	75.	1001.	5	NAD-SFC	NoSubs
10	4	27	117	19	-29.0	0.295	-9.000	-9.000	-999.	387.	79.3	0.0780	0.32	0.68	4.10	276.0	15.0	290.6	2.0	0	0.00	81.	1002.	4	NAD-SFC	NoSubs
10	4	27	117	20	-30.7	0.295	-9.000	-9.000	-999.	384.	74.7	0.0780	0.32	1.00	4.10	279.0	15.0	289.5	2.0	0	0.00	84.	1002.	3	NAD-SFC	NoSubs
10	4	27	117	21	-34.8	0.332	-9.000	-9.000	-999.	460.	94.6	0.0780	0.32	1.00	4.60	276.0	15.0	288.4	2.0	0	0.00	84.	1003.	3	NAD-SFC	NoSubs
10	4	27	117	22	-30.9	0.295	-9.000	-9.000	-999.	385.	74.1	0.0780	0.32	1.00	4.10	287.0	15.0	287.5	2.0	0	0.00	83.	1004.	3	NAD-SFC	NoSubs
10	4	27	117	23	-27.1	0.257	-9.000	-9.000	-999.	314.	56.3	0.0780	0.32	1.00	3.60	288.0	15.0	286.8	2.0	0	0.00	83.	1004.	3	NAD-SFC	NoSubs
10	4	27	117	24	-27.1	0.257	-9.000	-9.000	-999.	313.	56.1	0.0780	0.32	1.00	3.60	289.0	15.0	286.1	2.0	0	0.00	84.	1004.	3	NAD-SFC	NoSubs
10	4	28	118	1	-22.1	0.219	-9.000	-9.000	-999.	247.	42.8	0.0780	0.32	1.00	3.10	292.0	15.0	285.5	2.0	0	0.00	84.	1004.	3	NAD-SFC	NoSubs
10	4	28	118	2	-21.2	0.220	-9.000	-9.000	-999.	248.	45.0	0.0780	0.32	1.00	3.10	291.0	15.0	285.1	2.0	0	0.00	83.	1004.	5	NAD-SFC	NoSubs
10	4	28	118	3	-12.4	0.223	-9.000	-9.000	-999.	253.	80.4	0.0780	0.32	1.00	3.10	280.0	15.0	284.8	2.0	0	0.00	82.	1004.	10	NAD-SFC	NoSubs
10	4	28	118	4	-10.3	0.186	-9.000	-9.000	-999.	192.	55.6	0.0780	0.32	1.00	2.60	284.0	15.0	284.6	2.0	0	0.00	82.	1004.	10	NAD-SFC	NoSubs
10	4	28	118	5	-10.3	0.186	-9.000	-9.000	-999.	192.	55.6	0.0780	0.32	1.00	2.60	285.0	15.0	284.5	2.0	0	0.00	82.	1004.	10	NAD-SFC	NoSubs
10	4	28	118	6	-11.6	0.224	-9.000	-9.000	-999.	254.	86.3	0.0780	0.32	0.57	3.10	292.0	15.0	284.1	2.0	0	0.00	82.	1005.	10	NAD-SFC	NoSubs
10	4	28	118	7	2.2	0.314	0.145	0.005	49.	423.	-1268.8	0.0780	0.32	0.27	4.10	287.0	15.0	284.1	2.0	0	0.00	79.	1005.	10	NAD-SFC	NoSubs
10	4	28	118	8	11.1	0.330	0.391	0.005	193.	455.	-290.7	0.1620	0.32	0.18	3.60	302.0	15.0	284.6	2.0	0	0.00	73.	1006.	10	NAD-SFC	NoSubs
10	4	28	118	9	18.9	0.257	0.595	0.005	398.	315.	-80.5	0.0780	0.32	0.15	3.10	298.0	15.0	285.2	2.0	0	0.00	67.	1006.	10	NAD-SFC	NoSubs
10	4	28	118	10	25.2	0.148	0.732	0.005	559.	143.	-11.7	0.0780	0.32	0.14	1.50	294.0	15.0	286.4	2.0	0	0.00	60.	1006.	10	NAD-SFC	NoSubs
10	4	28	118	11	29.5	0.073	0.823	0.005	678.	50.	-1.2	0.0780	0.32	0.14	0.50	278.0	15.0	287.4	2.0	0	0.00	55.	1005.	10	NAD-SFC	NoSubs
10	4	28	118	12	105.6	0.132	1.362	0.005	859.	115.	-1.9	0.0780	0.32	0.14	1.00	293.0	15.0	288.4	2.0	0	0.00	53.	1005.	7	NAD-SFC	NoSubs
10	4	28	118	13	129.5	0.221	1.606	0.005	1146.	250.	-7.5	0.0780	0.32	0.14	2.10	287.0	15.0	289.5	2.0	0	0.00	48.	1004.	4	NAD-SFC	NoSubs
10	4	28	118	14	122.5	0.256	1.670	0.008	1363.	310.	-12.2	0.0780	0.32	0.14	2.60	297.0	15.0	290.8	2.0	0	0.00	40.	1003.	3	NAD-SFC	NoSubs
10	4	28	118	15	105.0	0.450	1.604	0.009	1407.	725.	-77.7	0.1620	0.32	0.14	4.60	305.0	15.0	291.2	2.0	0	0.00	36.	1002.	3	NAD-SFC	NoSubs
10	4	28	118	16	79.8	0.534	1.475	0.009	1439.	934.	-170.0	0.1620	0.32	0.15	5.70	304.0	15.0	291.4	2.0	0	0.00	36.	1002.	3	NAD-SFC	NoSubs
10	4	28	118	17	48.2	0.377	1.253	0.009	1458.	577.	-99.3	0.0780	0.32	0.19	4.60	289.0	15.0	290.9	2.0	0	0.00	44.	1001.	3	NAD-SFC	NoSubs
10	4	28	118	18	12.8	0.340	0.806	0.009	1461.	476.	-273.9	0.0310	0.32	0.30	5.10	266.0	15.0	289.2	2.0	0	0.00	54.	1002.	3	NAD-SFC	NoSubs
10	4	28	118	19	-42.9	0.416	-9.000	-9.000	-999.	643.	149.7	0.0780	0.32	0.67	5.70	275.0	15.0	286.6	2.0	0	0.00	62.	1003.	3	NAD-SFC	NoSubs
10	4	28	118	20	-43.9	0.415	-9.000	-9.000	-999.	643.	146.0	0.0780	0.32	1.00	5.70	277.0	15.0	285.1	2.0	0	0.00	67.	1003.	3	NAD-SFC	NoSubs
10	4	28	118	21	-39.3	0.370	-9.000	-9.000	-999.	542.	115.3	0.0780	0.32	1.00	5.10	290.0	15.0	284.0	2.0	0	0.00	72.	1004.	3	NAD-SFC	NoSubs
10	4	28	118	22	-35.5	0.332	-9.000	-9.000	-999.	461.	92.7	0.0780	0.32	1.00	4.60	295.0	15.0	283.1	2.0	0	0.00	76.	1005.	3	NAD-SFC	NoSubs
10	4	28	118	23	-31.5	0.295	-9.000	-9.000	-999.	385.	72.7	0.0780	0.32	1.00	4.10	291.0	15.0	282.2	2.0	0	0.00	78.	1005.	3	NAD-SFC	NoSubs
10	4	28	118	24	-31.6	0.295	-9.000	-9.000	-999.	384.	72.7	0.0780	0.32	1.00	4.10	293.0	15.0	282.0	2.0	0	0.00	77.	1005.	3	NAD-SFC	NoSubs
10	4	29	119	1	-37.2	0.346	-9.000	-9.000	-999.	489.	100.1	0.1620	0.32	1.00	4.10	300.0	15.0	281.5	2.0	0	0.00	78.	1006.	3	NAD-SFC	NoSubs
10	4	29	119	2	-26.7	0.257	-9.000	-9.000	-999.	317.	57.3	0.0780	0.32	1.00	3.60	297.0	15.0	281.0	2.0	0	0.00	79.	1006.	4	NAD-SFC	NoSubs
10	4	29	119	3	-31.4	0.302	-9.000	-9.000	-999.	399.	79.0	0.1620	0.32	1.00	3.60	300.0	15.0	280.5	2.0	0	0.00	81.	1006.	4	NAD-SFC	NoSubs
10	4	29	119	4	-34.3	0.347	-9.000	-9.000	-999.	490.	109.2	0.1620	0.32	1.00	4.10	310.0	15.0	280.5	2.0	0	0.00	80.	1007.	5	NAD-SFC	NoSubs
10	4	29	119	5	-34.3	0.347	-9.000	-9.000	-999.	490.	109.1	0.1620	0.32	1.00	4.10	309.0	15.0	280.2	2.0	0	0.00	82.	1007.	5	NAD-SFC	NoSubs
10	4	29	119	6	-30.7	0.348	-9.000	-9.000	-999.	492.	123.1	0.1620	0.32	0.57	4.10	321.0	15.0	280.1	2.0	0	0.00	83.	1008.	4	NAD-SFC	NoSubs
10	4	29	119	7	18.6	0.513	0.365	0.005	94.	881.	-651.4	0.1620	0.32	0.27	5.70	329.0	15.0	281.8	2.0	0	0.00	74.	1008.	4	NAD-SFC	NoSubs
10	4	29	119	8	51.5	0.490	0.798	0.005	356.	825.	-206.1	0.1880	0.32	0.18	5.10	337.0	15.0	283.0	2.0	0	0.00	64.	1009.	5	NAD-SFC	NoSubs
10	4	29	119	9	75.5	0.456	1.074	0.005	590.	741.	-113.0	0.1880	0.32	0.15	4.60	335.0	15.0	284.2	2.0	0	0.00	55.	1008.	6	NAD-SFC	NoSubs
10	4	29	119	10	106.5	0.450	1.367	0.005	863.	726.	-77.1	0.1620	0.32	0.14	4.60	329.0	15.0	285.4	2.0	0	0.00	47.	1008.	4	NAD-SFC	NoSubs
10	4	29	119	11	124.3	0.495	1.584	0.005	1150.	835.	-87.7	0.1620	0.32	0.14	5.10	326.0	15.0	286.8	2.0	0	0.00	40.	1007.	3	NAD-SFC	NoSubs
10	4	29	119	12	132.1	0.605	1.718	0.005	1380.	1127.	-150.3	0.1880	0.32	0.14	6.20	334.0	15.0	287.8	2.0	0	0.00	36.	1006.	3	NAD-SFC	NoSubs
10	4	29	119	13	131.5	0.690	1.768	0.005	1509.	1372.	-224.0	0.1880	0.32	0.14	7.20	330.0	15.0	288.6	2.0	0	0.00	33.	1006.	3	NAD-SFC	NoSubs
10	4	29	119	14	122.5	0.709	1.768	0.005	1621.	1430.	-260.3	0.1620	0.32	0.14	7.70	329.0	15.0	289.2	2.0	0	0.00	31.	1005.	3	NAD-SFC	NoSubs
10	4	29	119	15	104.9	0.728	1.710	0.005	1711.	1489.	-329.4	0.1880	0.32	0.14	7.70	330.0	15.0	289.4	2.0	0	0.00	31.	1004.	2	NAD-SFC	NoSubs
10	4	29	119	16	79.5	0.723	1.579	0.005	1775.	1476.	-425.5	0.1880	0.32	0.15	7.70	333.0	15.0	289.4	2.0	0	0.00	31.	1004.	2	NAD-SFC	NoSubs
10	4	29	119	17	47.6	0.584	1.340	0.005	1810.	1094.	-374.2	0.1880	0.32	0.19	6.20	342.0	15.0	289.0	2.0	0	0.00	37.	1004.	2	NAD-SFC	NoSubs
10	4	29	119	18	12.0	0.385	0.849	0.005	1816.	615.	-424.0	0.1880	0.32	0.30	4.10	345.0	15.0	287.9	2.0	0	0.00	47.	1004.	2	NAD-SFC	NoSubs
10	4	29	119	19	-38.0	0.359	-9.000	-9.000	-999.	518.	109.2	0.1880	0.32	0.66	4.10	334.0	15.0	286.2	2.0	0	0.00	53.	1004.	2	NAD-SFC	NoSubs
10	4	29	119	20	-39.1	0.359	-9.000	-9.000	-999.	516.	106.2	0.1880	0.32	1.00	4.10	331.0	15.0	285.0	2.0	0	0.00	57.	1005.	2	NAD-SFC	NoSubs
10	4	29	119	21	-37.7	0.346	-9.000	-9.000	-999.	489.	98.4	0.1620	0.32	1.00	4.10	317.0	15.0	284.2	2.0	0	0.00	60.	1005.	2	NAD-SFC	NoSubs
10	4	29	119	22	-32.2	0.302	-9.000	-9.000	-999.	400.	76.8	0.1620	0.32	1.00	3.60	307.0	15.0	283.5	2.0	0	0.00	63.	1006.	3	NAD-SFC	NoSubs
10	4	29	119	23	-15.4	0.181	-9.000	-9.000	-999.	194.	34.8	0.0780	0.32	1.00	2.60	297.0	15.0	283.1	2.0	0	0.00	65.	1006.	3	NAD-SFC	NoSubs
10	4	29	119	24	-22.2	0.219	-9.000	-9.000	-999.	247.	42.6	0.0780	0.32	1.00	3.10	290.0	15.0	282.6	2.0	0	0.00	68.	1006.	3	NAD-SFC	NoSubs
10	4	30	120	1	-27.6	0.257	-9.000	-9.000	-999.	313.	55.3	0.0780	0.32	1.00	3.60	286.0	15.0	281.9	2.0	0	0.00	73.	1006.	3	NAD-SFC	NoSubs
10	4	30	120	2	-28.3	0.257	-9.000	-9.000	-999.	312.	53.6	0.0780	0.32	1.00	3.60	299.0	15.0	281.2	2.0	0	0.00	77.	1006.	2	NAD-SFC	NoSubs
10	4	30	120	3	-22.6	0.219	-9.000	-9.000	-999.	247.	41.8	0.0780	0.32	1.00	3.10	297.0	15.0	280.8	2.0	0	0.00	79.	1006.	2	NAD-SFC	NoSubs
10	4	30	120	4	-5.2	0.105	-9.000	-9.000	-999.	89.	19.7	0.0780	0.32	1.00	1.50	288.0	15.0	280.4	2.0	0	0.00	79.	1006.	2	NAD-SFC	NoSubs
10	4	30	120	5	-5.2	0.105	-9.000	-9.000	-999.	81.	19.7	0.0780	0.32	1.00	1.50	299.0	15.0	280.2	2.0	0	0.00	78.	1006.	2	NAD-SFC	NoSubs
10	4	30	120	6	-1.1	0.069	-9.000	-9.000	-999.	43.	27.7	0.0780	0.32	0.56	0.50	282.0	15.0	279.9	2.0	0	0.00	78.	1007.	2	NAD-SFC	NoSubs
10	4	30	120	7	17.9	0.170	0.346	0.007	83.	168.	-24.7	0.1880	0.32	0.27	1.50	347.0	15.0	281.8	2.0	0	0.00	67.	1008.	2	NAD-SFC	NoSubs
10	4	30	120	8	53.3	0.189	0.702	0.006	233.	197.	-11.3	0.1880	0.32	0.18	1.50	353.0	15.0	284.0	2.0	0	0.00	54.	1008.	2	NAD-SFC	NoSubs
10	4	30	120	9	84.3	0.152	0.977	0.006	398.	143.	-3.8	0.1880	0.32	0.15	1.00	348.0	15.0	285.9	2.0	0	0.00	45.	1007.	2	NAD-SFC	NoSubs
10	4	30	120	10	108.6	0.157	1.180	0.005	543.	149.	-3.2	0.1880	0.32	0.14	1.00	344.0	15.0	287.6	2.0	0	0.00	38.	1007.	2	NAD-SFC	NoSubs
10	4	30	120	11	125.2	0.160	1.332	0.005	678.	154.	-2.9	0.1880	0.32	0.14	1.00	337.0	15.0	289.0	2.0	0	0.00	34.	1006.	2	NAD-SFC	NoSubs
10	4	30	120	12	133.1	0.209	1.451	0.005	824.	229.	-6.1	0.1880	0.32	0.14	1.50	338.0	15.0	290.2	2.0	0	0.00	31.	1005.	2	NAD-SFC	NoSubs
10	4	30	120	13	132.6	0.262	1.518	0.005	948.	321.	-12.1	0.1880	0.32	0.14	2.10	339.0	15.0	291.2	2.0	0	0.00	29.	1005.	2	NAD-SFC	NoSubs
10	4	30	120	14	123.5	0.344	1.545	0.005	1070.	484.	-29.5	0.1880	0.32	0.14	3.10	337.0	15.0	292.0	2.0	0	0.00	28.	1004.	2	NAD-SFC	NoSubs
10	4	30	120	15	105.9	0.381	1.512	0.005	1170.	565.	-46.9	0.1880	0.32	0.14	3.60	343.0	15.0	292.4	2.0	0	0.00	29.	1003.	2	NAD-SFC	NoSubs
10	4	30	120	16	80.5	0.457	1.407	0.005	1239.	742.	-106.3	0.1880	0.32	0.15	4.60	348.0	15.0	292.6	2.0	0	0.00	30.	1003.	2	NAD-SFC	NoSubs
10	4	30	120	17	48.7	0.447	1.203	0.005	1279.	717.	-163.7	0.1880	0.32	0.19	4.60	348.0	15.0	292.4	2.0	0	0.00	35.	1003.	2	NAD-SFC	NoSubs
10	4	30	120	18	13.1	0.300	0.779	0.005	1286.	410.	-182.9	0.1880	0.32	0.30	3.10	342.0	15.0	291.4	2.0	0	0.00	47.	1003.	2	NAD-SFC	NoSubs
10	4	30	120	19	-32.5	0.314	-9.000	-9.000	-999.	422.	85.0	0.1880	0.32	0.65	3.60	332.0	15.0	289.9	2.0	0	0.00	52.	1003.	2	NAD-SFC	NoSubs
10	4	30	120	20	-37.2	0.346	-9.000	-9.000	-999.	489.	99.9	0.1620	0.32	1.00	4.10	322.0	15.0	288.5	2.0	0	0.00	55.	1004.	2	NAD-SFC	NoSubs
10	4	30	120	21	-32.6	0.302	-9.000	-9.000	-999.	400.	75.9	0.1620	0.32	1.00	3.60	325.0	15.0	287.4	2.0	0	0.00	57.	1004.	2	NAD-SFC	NoSubs
10	4	30	120	22	-27.9	0.258	-9.000	-9.000	-999.	315.	55.2	0.1620	0.32	1.00	3.10	325.0	15.0	286.8	2.0	0	0.00	58.	1004.	2	NAD-SFC	NoSubs

10	4	30	120	23	-12.8	0.170	-9.000	-9.000	-999.	171.	34.0	0.1620	0.32	1.00	2.10	303.0	15.0	286.0	2.0	0	0.00	59.	1004.	2	NAD-SFC NoSubs
10	4	30	120	24	-2.8	0.084	-9.000	-9.000	-999.	62.	19.4	0.0780	0.32	1.00	1.00	289.0	15.0	285.2	2.0	0	0.00	61.	1004.	2	NAD-SFC NoSubs
10	5	1	121	1	-1.5	0.080	-9.000	-9.000	-999.	54.	31.2	0.1750	0.52	1.00	0.50	250.0	15.0	284.8	2.0	0	0.00	63.	1004.	2	NAD-SFC NoSubs
10	5	1	121	2	-1.5	0.080	-9.000	-9.000	-999.	54.	31.2	0.1750	0.52	1.00	0.50	242.0	15.0	284.2	2.0	0	0.00	65.	1005.	2	NAD-SFC NoSubs
10	5	1	121	3	-1.5	0.080	-9.000	-9.000	-999.	54.	31.2	0.1750	0.52	1.00	0.50	254.0	15.0	283.9	2.0	0	0.00	67.	1005.	2	NAD-SFC NoSubs
10	5	1	121	4	-3.5	0.094	-9.000	-9.000	-999.	70.	21.7	0.1750	0.52	1.00	1.00	265.0	15.0	283.4	2.0	0	0.00	69.	1005.	2	NAD-SFC NoSubs
10	5	1	121	5	-6.8	0.123	-9.000	-9.000	-999.	103.	24.5	0.1750	0.52	1.00	1.50	261.0	15.0	282.8	2.0	0	0.00	71.	1005.	2	NAD-SFC NoSubs
10	5	1	121	6	-6.2	0.122	-9.000	-9.000	-999.	102.	26.3	0.1750	0.52	0.59	1.50	255.0	15.0	282.2	2.0	0	0.00	73.	1006.	2	NAD-SFC NoSubs
10	5	1	121	7	23.3	0.188	0.459	0.009	149.	196.	-25.6	0.2720	0.52	0.31	1.50	316.0	15.0	283.8	2.0	0	0.00	67.	1006.	2	NAD-SFC NoSubs
10	5	1	121	8	70.4	0.108	0.824	0.008	284.	87.	-1.6	0.2930	0.52	0.23	0.50	341.0	15.0	285.8	2.0	0	0.00	56.	1006.	2	NAD-SFC NoSubs
10	5	1	121	9	111.7	-9.000	-9.000	-9.000	395.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	287.5	2.0	0	0.00	49.	1005.	2	NAD-SFC NoSubs
10	5	1	121	10	144.1	-9.000	-9.000	-9.000	587.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	289.2	2.0	0	0.00	43.	1005.	2	NAD-SFC NoSubs
10	5	1	121	11	166.2	-9.000	-9.000	-9.000	765.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	291.0	2.0	0	0.00	36.	1004.	2	NAD-SFC NoSubs
10	5	1	121	12	176.9	0.114	1.660	0.007	926.	92.	-1.0	0.2160	0.52	0.19	0.50	288.0	15.0	292.6	2.0	0	0.00	31.	1003.	2	NAD-SFC NoSubs
10	5	1	121	13	176.3	0.234	1.728	0.007	1048.	271.	-6.5	0.2720	0.52	0.19	1.50	323.0	15.0	293.9	2.0	0	0.00	27.	1002.	2	NAD-SFC NoSubs
10	5	1	121	14	164.3	0.341	1.739	0.006	1144.	479.	-21.6	0.2930	0.52	0.19	2.60	352.0	15.0	294.8	2.0	0	0.00	26.	1001.	2	NAD-SFC NoSubs
10	5	1	121	15	140.9	0.474	1.689	0.006	1221.	784.	-67.5	0.2940	0.52	0.19	4.10	2.0	15.0	295.1	2.0	0	0.00	27.	1000.	2	NAD-SFC NoSubs
10	5	1	121	16	107.1	0.512	1.565	0.006	1276.	878.	-111.5	0.2930	0.52	0.20	4.60	360.0	15.0	295.1	2.0	0	0.00	30.	999.	2	NAD-SFC NoSubs
10	5	1	121	17	64.8	0.406	1.334	0.006	1306.	630.	-92.0	0.2930	0.52	0.24	3.60	346.0	15.0	294.8	2.0	0	0.00	37.	999.	2	NAD-SFC NoSubs
10	5	1	121	18	17.4	0.335	0.862	0.006	1313.	468.	-191.8	0.2930	0.52	0.34	3.10	331.0	15.0	294.1	2.0	0	0.00	46.	1000.	2	NAD-SFC NoSubs
10	5	1	121	19	-35.2	0.347	-9.000	-9.000	-999.	490.	105.7	0.2720	0.52	0.69	3.60	321.0	15.0	293.2	2.0	0	0.00	48.	1000.	2	NAD-SFC NoSubs
10	5	1	121	20	-36.6	0.347	-9.000	-9.000	-999.	490.	101.4	0.2720	0.52	1.00	3.60	310.0	15.0	291.9	2.0	0	0.00	52.	1000.	2	NAD-SFC NoSubs
10	5	1	121	21	-36.7	0.347	-9.000	-9.000	-999.	490.	101.1	0.2720	0.52	1.00	3.60	308.0	15.0	291.1	2.0	0	0.00	54.	1000.	2	NAD-SFC NoSubs
10	5	1	121	22	-35.9	0.347	-9.000	-9.000	-999.	490.	103.6	0.2720	0.52	1.00	3.60	300.0	15.0	290.4	2.0	0	0.00	57.	1000.	3	NAD-SFC NoSubs
10	5	1	121	23	-33.8	0.325	-9.000	-9.000	-999.	446.	90.9	0.2160	0.52	1.00	3.60	297.0	15.0	289.4	2.0	0	0.00	60.	1001.	3	NAD-SFC NoSubs
10	5	1	121	24	-36.2	0.347	-9.000	-9.000	-999.	490.	102.8	0.2720	0.52	1.00	3.60	300.0	15.0	288.2	2.0	0	0.00	66.	1001.	3	NAD-SFC NoSubs
10	5	2	122	1	-36.3	0.347	-9.000	-9.000	-999.	490.	102.6	0.2720	0.52	1.00	3.60	302.0	15.0	287.6	2.0	0	0.00	70.	1001.	3	NAD-SFC NoSubs
10	5	2	122	2	-36.4	0.347	-9.000	-9.000	-999.	490.	102.4	0.2720	0.52	1.00	3.60	305.0	15.0	287.0	2.0	0	0.00	75.	1001.	3	NAD-SFC NoSubs
10	5	2	122	3	-29.2	0.278	-9.000	-9.000	-999.	354.	65.7	0.2160	0.52	1.00	3.10	298.0	15.0	286.4	2.0	0	0.00	78.	1001.	3	NAD-SFC NoSubs
10	5	2	122	4	-22.5	0.230	-9.000	-9.000	-999.	266.	48.4	0.2160	0.52	1.00	2.60	278.0	15.0	285.9	2.0	0	0.00	79.	1001.	2	NAD-SFC NoSubs
10	5	2	122	5	-20.6	0.218	-9.000	-9.000	-999.	244.	44.8	0.1750	0.52	1.00	2.60	264.0	15.0	285.5	2.0	0	0.00	79.	1002.	2	NAD-SFC NoSubs
10	5	2	122	6	-6.1	0.122	-9.000	-9.000	-999.	106.	26.8	0.1750	0.52	0.58	1.50	246.0	15.0	285.1	2.0	0	0.00	79.	1003.	2	NAD-SFC NoSubs
10	5	2	122	7	24.5	0.247	0.442	0.008	125.	295.	-55.2	0.2930	0.52	0.31	2.10	353.0	15.0	286.2	2.0	0	0.00	72.	1003.	2	NAD-SFC NoSubs
10	5	2	122	8	71.7	0.108	0.843	0.008	299.	100.	-1.6	0.2940	0.52	0.23	0.50	16.0	15.0	288.2	2.0	0	0.00	59.	1004.	2	NAD-SFC NoSubs
10	5	2	122	9	113.0	-9.000	-9.000	-9.000	446.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	290.1	2.0	0	0.00	51.	1004.	2	NAD-SFC NoSubs
10	5	2	122	10	145.5	-9.000	-9.000	-9.000	583.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	292.1	2.0	0	0.00	42.	1004.	2	NAD-SFC NoSubs
10	5	2	122	11	167.7	-9.000	-9.000	-9.000	735.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.0	2.0	0	0.00	34.	1004.	2	NAD-SFC NoSubs
10	5	2	122	12	178.2	0.120	1.647	0.006	899.	100.	-1.0	0.2720	0.52	0.19	0.50	316.0	15.0	295.2	2.0	0	0.00	29.	1003.	2	NAD-SFC NoSubs
10	5	2	122	13	177.7	0.184	1.728	0.006	1041.	190.	-3.1	0.2930	0.52	0.19	1.00	346.0	15.0	296.6	2.0	0	0.00	26.	1003.	2	NAD-SFC NoSubs
10	5	2	122	14	165.8	0.236	1.752	0.006	1162.	275.	-7.1	0.2940	0.52	0.19	1.50	2.0	15.0	297.5	2.0	0	0.00	24.	1002.	2	NAD-SFC NoSubs
10	5	2	122	15	142.5	-9.000	-9.000	-9.000	1256.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.1	2.0	0	0.00	24.	1002.	2	NAD-SFC NoSubs
10	5	2	122	16	108.8	-9.000	-9.000	-9.000	1322.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	298.2	2.0	0	0.00	24.	1002.	2	NAD-SFC NoSubs
10	5	2	122	17	66.5	0.315	1.363	0.006	1360.	425.	-42.1	0.2940	0.52	0.23	2.60	15.0	15.0	298.0	2.0	0	0.00	27.	1002.	2	NAD-SFC NoSubs
10	5	2	122	18	19.2	0.289	0.903	0.006	1369.	374.	-112.8	0.2940	0.52	0.34	2.60	21.0	15.0	297.4	2.0	0	0.00	34.	1002.	2	NAD-SFC NoSubs
10	5	2	122	19	-14.8	0.190	-9.000	-9.000	-999.	204.	41.7	0.2470	0.52	0.68	2.10	34.0	15.0	296.4	2.0	0	0.00	37.	1003.	2	NAD-SFC NoSubs
10	5	2	122	20	-3.7	0.099	-9.000	-9.000	-999.	78.	22.9	0.2470	0.52	1.00	1.00	38.0	15.0	295.0	2.0	0	0.00	41.	1003.	2	NAD-SFC NoSubs
10	5	2	122	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	293.4	2.0	0	0.00	46.	1004.	2	NAD-SFC NoSubs
10	5	2	122	22	-1.5	0.080	-9.000	-9.000	-999.	54.	31.2	0.1970	0.52	1.00	0.50	146.0	15.0	291.8	2.0	0	0.00	53.	1004.	2	NAD-SFC NoSubs
10	5	2	122	23	-6.7	0.123	-9.000	-9.000	-999.	104.	25.0	0.1810	0.52	1.00	1.50	164.0	15.0	290.5	2.0	0	0.00	58.	1005.	2	NAD-SFC NoSubs
10	5	2	122	24	-3.5	0.095	-9.000	-9.000	-999.	71.	22.1	0.1970	0.52	1.00	1.00	148.0	15.0	289.5	2.0	0	0.00	60.	1005.	2	NAD-SFC NoSubs
10	5	3	123	1	-7.0	0.126	-9.000	-9.000	-999.	107.	25.6	0.1970	0.52	1.00	1.50	141.0	15.0	288.8	2.0	0	0.00	61.	1005.	2	NAD-SFC NoSubs
10	5	3	123	2	-7.0	0.126	-9.000	-9.000	-999.	107.	25.6	0.1970	0.52	1.00	1.50	142.0	15.0	288.1	2.0	0	0.00	60.	1005.	2	NAD-SFC NoSubs
10	5	3	123	3	-3.5	0.095	-9.000	-9.000	-999.	70.	22.0	0.1900	0.52	1.00	1.00	181.0	15.0	287.6	2.0	0	0.00	59.	1006.	2	NAD-SFC NoSubs
10	5	3	123	4	-13.2	0.173	-9.000	-9.000	-999.	173.	35.0	0.1750	0.52	1.00	2.10	261.0	15.0	287.1	2.0	0	0.00	59.	1006.	2	NAD-SFC NoSubs
10	5	3	123	5	-35.2	0.325	-9.000	-9.000	-999.	445.	87.5	0.2160	0.52	1.00	3.60	288.0	15.0	286.5	2.0	0	0.00	59.	1007.	2	NAD-SFC NoSubs
10	5	3	123	6	-26.1	0.298	-9.000	-9.000	-999.	391.	91.0	0.2720	0.52	0.57	3.10	301.0	15.0	285.9	2.0	0	0.00	60.	1008.	2	NAD-SFC NoSubs
10	5	3	123	7	25.6	0.244	0.378	0.007	76.	290.	-51.1	0.2720	0.52	0.31	2.10	317.0	15.0	287.5	2.0	0	0.00	54.	1008.	2	NAD-SFC NoSubs
10	5	3	123	8	72.7	0.162	0.737	0.008	198.	159.	-5.2	0.2720	0.52	0.22	1.00	320.0	15.0	289.5	2.0	0	0.00	48.	1009.	2	NAD-SFC NoSubs
10	5	3	123	9	114.2	-9.000	-9.000	-9.000	370.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	292.2	2.0	0	0.00	40.	1009.	2	NAD-SFC NoSubs
10	5	3	123	10	146.9	-9.000	-9.000	-9.000	557.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.8	2.0	0	0.00	32.	1009.	2	NAD-SFC NoSubs
10	5	3	123	11	169.1	-9.000	-9.000	-9.000	721.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.6	2.0	0	0.00	27.	1009.	2	NAD-SFC NoSubs
10	5	3	123	12	179.8	-9.000	-9.000	-9.000	866.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.2	2.0	0	0.00	24.	1009.	2	NAD-SFC NoSubs
10	5	3	123	13	179.3	-9.000	-9.000	-9.000	994.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.6	2.0	0	0.00	21.	1008.	2	NAD-SFC NoSubs
10	5	3	123	14	167.5	0.121	1.730	0.005	1113.	101.	-1.0	0.2940	0.52	0.19	0.50	7.0	15.0	300.5	2.0	0	0.00	20.	1007.	2	NAD-SFC NoSubs
10	5	3	123	15	144.2	0.180	1.692	0.005	1207.	183.	-3.6	0.2940	0.52	0.19	1.00	14.0	15.0	301.1	2.0	0	0.00	20.	1006.	2	NAD-SFC NoSubs
10	5	3	123	16	110.6	0.329	1.577	0.005	1273.	452.	-28.8	0.2940	0.52	0.20	2.60	16.0	15.0	301.2	2.0	0	0.00	21.	1006.	2	NAD-SFC NoSubs
10	5	3	123	17	68.0	0.316	1.354	0.005	1310.	426.	-41.5	0.2940	0.52	0.23	2.60	18.0	15.0	300.2	2.0	0	0.00	31.	1005.	2	NAD-SFC NoSubs
10	5	3	123	18	20.6	0.337	0.911	0.005	1319.	470.	-167.1	0.2940	0.52	0.34	3.10	21.0	15.0	299.4	2.0	0	0.00	37.	1006.	2	NAD-SFC NoSubs
10	5	3	123	19	-24.8	0.252	-9.000	-9.000	-999.	307.	58.1	0.2930	0.52	0.67	2.60	346.0	15.0	298.4	2.0	0	0.00	39.	1006.	2	NAD-SFC NoSubs
10	5	3	123	20	-34.0	0.325	-9.000	-9.000	-999.	445.	90.9	0.2160	0.52	1.00	3.60	276.0	15.0	297.2	2.0	0	0.00	41.	1006.	2	NAD-SFC NoSubs
10	5	3	123	21	-46.9	0.443	-9.000	-9.000	-999.	707.	166.2	0.1750	0.52	1.00	5.10	268.0	15.0	293.2	2.0	0	0.00	51.	1007.	2	NAD-SFC NoSubs
10	5	3	123	22	-44.8	0.420	-9.000	-9.000	-999.	654.	148.3	0.2160	0.52	1.00	4.60	271.0	15.0	291.1	2.0	0	0.00	59.	1007.	2	NAD-SFC NoSubs
10	5	3	123	23	-37.8	0.353	-9.000	-9.000	-999.	506.	104.4	0.1750	0.52	1.00	4.10	266.0	15.0	290.2	2.0	0	0.00	66.	1007.	2	NAD-SFC NoSubs
10	5	3	123	24	-39.9	0.372	-9.000	-9.000	-999.	545.	116.2	0.2160	0.52	1.00	4.10	276.0	15.0	289.9	2.0	0	0.00	70.	1007.	2	NAD-SFC NoSubs
10	5	4	124	1	-37.2	0.347	-9.000	-9.000	-999.	490.	100.4	0.2720	0.52	1.00	3.60	307.0	15.0	289.2	2.0	0	0.00	73.	1007.	2	NAD-SFC NoSubs
10	5	4	124	2	-32.6	0.303	-9.000	-9.000	-999.	401.	76.6	0.2930	0.52	1.00	3.10	340.0	15.0	288.6	2.0	0	0.00	79.	1007.	2	NAD-SFC NoSubs
10	5	4	124	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	288.2	2.0	0	0.00	81.	1007.	2	NAD-SFC NoSubs

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10  5  4 124  4   -1.6  0.083 -9.000 -9.000 -999.    57.     31.8  0.2470  0.52  1.00  0.50   54.0  15.0 287.9  2.0    0  0.00   83.  1007.     2 NAD-SFC NoSubs
10  5  4 124  5   -1.7  0.085 -9.000 -9.000 -999.    59.     32.1  0.2940  0.52  1.00  0.50   22.0  15.0 287.8  2.0    0  0.00   84.  1007.     2 NAD-SFC NoSubs
10  5  4 124  6   13.1 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.57  0.00    0.0  15.0 287.5  2.0    0  0.00   85.  1008.     2 NAD-SFC NoSubs
10  5  4 124  7   27.8  0.194  0.553  0.010  219.   206.    -23.8  0.2930  0.52  0.30  1.50  346.0  15.0 288.8  2.0    0  0.00   81.  1008.     3 NAD-SFC NoSubs
10  5  4 124  8   74.4  0.108  0.860  0.008  307.    88.     -1.5  0.2930  0.52  0.22  0.50  349.0  15.0 290.5  2.0    0  0.00   73.  1008.     3 NAD-SFC NoSubs
10  5  4 124  9  115.1 -9.000 -9.000 -9.000  419. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0 292.1  2.0    0  0.00   66.  1007.     3 NAD-SFC NoSubs
10  5  4 124 10  147.1 -9.000 -9.000 -9.000  576. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 293.8  2.0    0  0.00   59.  1007.     3 NAD-SFC NoSubs
10  5  4 124 11  169.0  0.119  1.511  0.006  733.   99.     -1.0  0.2720  0.52  0.19  0.50  304.0  15.0 295.4  2.0    0  0.00   52.  1006.     3 NAD-SFC NoSubs
10  5  4 124 12  179.3  0.172  1.645  0.005  891.  172.     -2.6  0.2160  0.52  0.19  1.00  296.0  15.0 296.6  2.0    0  0.00   48.  1005.     3 NAD-SFC NoSubs
10  5  4 124 13  178.7  0.234  1.728  0.006 1034.  272.     -6.4  0.2720  0.52  0.19  1.50  318.0  15.0 297.8  2.0    0  0.00   44.  1003.     3 NAD-SFC NoSubs
10  5  4 124 14  167.0  0.342  1.756  0.006 1162.  480.    -21.4  0.2930  0.52  0.19  2.60  335.0  15.0 298.6  2.0    0  0.00   41.  1003.     3 NAD-SFC NoSubs
10  5  4 124 15  143.6  0.429  1.717  0.006 1262.  674.    -49.1  0.2930  0.52  0.19  3.60  341.0  15.0 298.9  2.0    0  0.00   39.  1002.     2 NAD-SFC NoSubs
10  5  4 124 16  109.9  0.513  1.600  0.006 1332.  880.   -109.3  0.2930  0.52  0.20  4.60  352.0  15.0 298.8  2.0    0  0.00   38.  1001.     2 NAD-SFC NoSubs
10  5  4 124 17   67.6  0.407  1.373  0.006 1367.  633.    -89.2  0.2940  0.52  0.23  3.60    1.0  15.0 298.1  2.0    0  0.00   43.  1001.     2 NAD-SFC NoSubs
10  5  4 124 18   20.1  0.384  0.919  0.006 1375.  572.   -251.1  0.2930  0.52  0.34  3.60  348.0  15.0 296.9  2.0    0  0.00   50.  1001.     2 NAD-SFC NoSubs
10  5  4 124 19  -40.1  0.406 -9.000 -9.000 -999.  621.    149.4  0.2930  0.52  0.66  4.10  338.0  15.0 294.8  2.0    0  0.00   54.  1002.     2 NAD-SFC NoSubs
10  5  4 124 20  -42.8  0.406 -9.000 -9.000 -999.  620.    139.3  0.2930  0.52  1.00  4.10  330.0  15.0 292.8  2.0    0  0.00   57.  1002.     2 NAD-SFC NoSubs
10  5  4 124 21  -36.8  0.347 -9.000 -9.000 -999.  492.    101.3  0.2720  0.52  1.00  3.60  327.0  15.0 291.5  2.0    0  0.00   58.  1002.     2 NAD-SFC NoSubs
10  5  4 124 22  -31.5  0.296 -9.000 -9.000 -999.  389.     73.8  0.2720  0.52  1.00  3.10  321.0  15.0 290.8  2.0    0  0.00   58.  1002.     2 NAD-SFC NoSubs
10  5  4 124 23  -24.9  0.246 -9.000 -9.000 -999.  294.     53.4  0.2720  0.52  1.00  2.60  308.0  15.0 290.1  2.0    0  0.00   58.  1003.     2 NAD-SFC NoSubs
10  5  4 124 24  -25.0  0.246 -9.000 -9.000 -999.  293.     53.3  0.2720  0.52  1.00  2.60  308.0  15.0 289.2  2.0    0  0.00   59.  1003.     2 NAD-SFC NoSubs
10  5  5 125  1   -8.0  0.137 -9.000 -9.000 -999.  127.     28.6  0.2720  0.52  1.00  1.50  317.0  15.0 288.5  2.0    0  0.00   60.  1003.     2 NAD-SFC NoSubs
10  5  5 125  2   -4.0  0.101 -9.000 -9.000 -999.   77.     23.3  0.2720  0.52  1.00  1.00  322.0  15.0 287.9  2.0    0  0.00   60.  1003.     2 NAD-SFC NoSubs
10  5  5 125  3   -4.0  0.101 -9.000 -9.000 -999.   77.     23.3  0.2720  0.52  1.00  1.00  325.0  15.0 287.2  2.0    0  0.00   60.  1004.     2 NAD-SFC NoSubs
10  5  5 125  4   -4.1  0.103 -9.000 -9.000 -999.   79.     23.6  0.2930  0.52  1.00  1.00  331.0  15.0 286.8  2.0    0  0.00   61.  1004.     2 NAD-SFC NoSubs
10  5  5 125  5   -4.1  0.103 -9.000 -9.000 -999.   79.     23.6  0.2930  0.52  1.00  1.00  338.0  15.0 286.1  2.0    0  0.00   62.  1004.     2 NAD-SFC NoSubs
10  5  5 125  6   -1.3  0.076 -9.000 -9.000 -999.   50.     29.6  0.2930  0.52  0.56  0.50  344.0  15.0 285.8  2.0    0  0.00   64.  1005.     2 NAD-SFC NoSubs
10  5  5 125  7   26.9  0.249  0.538  0.007  207.   298.    -51.5  0.2930  0.52  0.30  2.10  353.0  15.0 287.0  2.0    0  0.00   59.  1005.     2 NAD-SFC NoSubs
10  5  5 125  8   73.7  0.271  0.867  0.006  317.   339.    -24.3  0.2930  0.52  0.22  2.10  344.0  15.0 288.4  2.0    0  0.00   53.  1005.     2 NAD-SFC NoSubs
10  5  5 125  9  114.6  0.226  1.143  0.006  467.   258.     -9.0  0.2930  0.52  0.20  1.50  333.0  15.0 289.8  2.0    0  0.00   49.  1005.     2 NAD-SFC NoSubs
10  5  5 125 10  146.7  0.286  1.383  0.005  647.   366.    -14.2  0.2720  0.52  0.19  2.10  329.0  15.0 291.2  2.0    0  0.00   44.  1005.     2 NAD-SFC NoSubs
10  5  5 125 11  168.5  0.342  1.572  0.006  827.   480.    -21.3  0.2930  0.52  0.19  2.60  333.0  15.0 292.5  2.0    0  0.00   40.  1005.     2 NAD-SFC NoSubs
10  5  5 125 12  178.9  0.390  1.699  0.007  984.   585.    -29.7  0.2930  0.52  0.19  3.10  330.0  15.0 293.6  2.0    0  0.00   37.  1004.     2 NAD-SFC NoSubs
10  5  5 125 13  177.9  0.482  1.766  0.009 1111.   803.    -56.4  0.2930  0.52  0.19  4.10  343.0  15.0 294.5  2.0    0  0.00   35.  1004.     3 NAD-SFC NoSubs
10  5  5 125 14  166.0  0.525  1.780  0.010 1218.   913.    -78.1  0.2930  0.52  0.19  4.60  341.0  15.0 295.0  2.0    0  0.00   35.  1003.     3 NAD-SFC NoSubs
10  5  5 125 15  142.7  0.623  1.731  0.010 1302.  1178.   -151.5  0.2930  0.52  0.19  5.70  345.0  15.0 295.1  2.0    0  0.00   36.  1003.     3 NAD-SFC NoSubs
10  5  5 125 16  108.9  0.663  1.601  0.010 1351.  1292.   -238.9  0.2930  0.52  0.20  6.20  344.0  15.0 294.9  2.0    0  0.00   35.  1003.     2 NAD-SFC NoSubs
10  5  5 125 17   66.7  0.547  1.366  0.010 1369.   986.   -219.6  0.2930  0.52  0.23  5.10  340.0  15.0 294.2  2.0    0  0.00   41.  1003.     2 NAD-SFC NoSubs
10  5  5 125 18   19.3  0.377  0.905  0.010 1373.   582.   -247.9  0.2720  0.52  0.33  3.60  327.0  15.0 293.0  2.0    0  0.00   50.  1003.     2 NAD-SFC NoSubs
10  5  5 125 19  -39.6  0.397 -9.000 -9.000 -999.   601.    142.0  0.2720  0.52  0.65  4.10  323.0  15.0 291.2  2.0    0  0.00   54.  1004.     2 NAD-SFC NoSubs
10  5  5 125 20  -42.4  0.397 -9.000 -9.000 -999.   600.    131.9  0.2720  0.52  1.00  4.10  317.0  15.0 289.8  2.0    0  0.00   56.  1004.     2 NAD-SFC NoSubs
10  5  5 125 21  -37.2  0.347 -9.000 -9.000 -999.   491.    100.3  0.2720  0.52  1.00  3.60  319.0  15.0 288.8  2.0    0  0.00   56.  1004.     2 NAD-SFC NoSubs
10  5  5 125 22  -31.8  0.296 -9.000 -9.000 -999.   389.     73.2  0.2720  0.52  1.00  3.10  312.0  15.0 288.2  2.0    0  0.00   55.  1004.     2 NAD-SFC NoSubs
10  5  5 125 23  -25.1  0.246 -9.000 -9.000 -999.   294.     53.1  0.2720  0.52  1.00  2.60  314.0  15.0 287.4  2.0    0  0.00   56.  1004.     2 NAD-SFC NoSubs
10  5  5 125 24  -25.1  0.246 -9.000 -9.000 -999.   293.     53.0  0.2720  0.52  1.00  2.60  308.0  15.0 286.6  2.0    0  0.00   57.  1004.     2 NAD-SFC NoSubs
10  5  6 126  1  -25.1  0.246 -9.000 -9.000 -999.   292.     52.9  0.2720  0.52  1.00  2.60  305.0  15.0 285.8  2.0    0  0.00   58.  1004.     2 NAD-SFC NoSubs
10  5  6 126  2  -16.1  0.195 -9.000 -9.000 -999.   208.     41.2  0.2720  0.52  1.00  2.10  302.0  15.0 285.1  2.0    0  0.00   59.  1004.     2 NAD-SFC NoSubs
10  5  6 126  3   -7.3  0.129 -9.000 -9.000 -999.   112.     26.2  0.2160  0.52  1.00  1.50  297.0  15.0 284.5  2.0    0  0.00   61.  1004.     2 NAD-SFC NoSubs
10  5  6 126  4   -7.3  0.129 -9.000 -9.000 -999.   111.     26.2  0.2160  0.52  1.00  1.50  283.0  15.0 283.9  2.0    0  0.00   61.  1005.     2 NAD-SFC NoSubs
10  5  6 126  5   -7.3  0.129 -9.000 -9.000 -999.   111.     26.2  0.2160  0.52  1.00  1.50  280.0  15.0 283.4  2.0    0  0.00   62.  1005.     2 NAD-SFC NoSubs
10  5  6 126  6   -6.4  0.129 -9.000 -9.000 -999.   111.     30.0  0.2160  0.52  0.55  1.50  278.0  15.0 283.1  2.0    0  0.00   62.  1005.     2 NAD-SFC NoSubs
10  5  6 126  7   27.0  0.249  0.519  0.007  185.   299.    -51.3  0.2930  0.52  0.30  2.10  332.0  15.0 284.6  2.0    0  0.00   54.  1006.     2 NAD-SFC NoSubs
10  5  6 126  8   73.9  0.215  0.837  0.008  285.   240.    -12.1  0.2930  0.52  0.22  1.50  335.0  15.0 286.4  2.0    0  0.00   45.  1006.     2 NAD-SFC NoSubs
10  5  6 126  9  114.7  0.113  1.068  0.006  381.    96.     -1.1  0.2720  0.52  0.20  0.50  317.0  15.0 288.0  2.0    0  0.00   39.  1006.     2 NAD-SFC NoSubs
10  5  6 126 10  146.7 -9.000 -9.000 -9.000  582. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 289.6  2.0    0  0.00   35.  1005.     2 NAD-SFC NoSubs
10  5  6 126 11  168.5  0.113  1.546  0.005  786.   91.     -1.0  0.2160  0.52  0.19  0.50  292.0  15.0 291.2  2.0    0  0.00   30.  1005.     2 NAD-SFC NoSubs
10  5  6 126 12  178.9  0.172  1.693  0.007  973.  172.     -2.6  0.2160  0.52  0.19  1.00  299.0  15.0 292.6  2.0    0  0.00   27.  1004.     2 NAD-SFC NoSubs
10  5  6 126 13  178.2  0.181  1.761  0.007 1098.  185.     -3.0  0.2720  0.52  0.19  1.00  314.0  15.0 293.8  2.0    0  0.00   25.  1003.     2 NAD-SFC NoSubs
10  5  6 126 14  166.3  0.236  1.774  0.008 1203.  275.     -7.1  0.2930  0.52  0.19  1.50  330.0  15.0 294.8  2.0    0  0.00   22.  1003.     2 NAD-SFC NoSubs
10  5  6 126 15  143.1  0.337  1.727  0.008 1288.  469.    -23.9  0.2930  0.52  0.19  2.60  338.0  15.0 295.4  2.0    0  0.00   22.  1002.     2 NAD-SFC NoSubs
10  5  6 126 16  109.6  0.420  1.603  0.008 1345.  654.    -60.6  0.2930  0.52  0.20  3.60  353.0  15.0 295.6  2.0    0  0.00   22.  1002.     2 NAD-SFC NoSubs
10  5  6 126 17   67.5  0.407  1.373  0.009 1370.  624.    -89.4  0.2940  0.52  0.23  3.60    2.0  15.0 295.2  2.0    0  0.00   26.  1002.     2 NAD-SFC NoSubs
10  5  6 126 18   20.2  0.290  0.920  0.009 1376.  384.   -107.9  0.2940  0.52  0.33  2.60    1.0  15.0 294.2  2.0    0  0.00   37.  1002.     2 NAD-SFC NoSubs
10  5  6 126 19  -34.6  0.355 -9.000 -9.000 -999.   507.    115.6  0.2930  0.52  0.65  3.60  344.0  15.0 293.5  2.0    0  0.00   38.  1002.     2 NAD-SFC NoSubs
10  5  6 126 20  -37.5  0.354 -9.000 -9.000 -999.   506.    106.0  0.2930  0.52  1.00  3.60  333.0  15.0 292.0  2.0    0  0.00   40.  1002.     2 NAD-SFC NoSubs
10  5  6 126 21  -31.5  0.296 -9.000 -9.000 -999.   389.     73.8  0.2720  0.52  1.00  3.10  318.0  15.0 290.8  2.0    0  0.00   43.  1003.     2 NAD-SFC NoSubs
10  5  6 126 22  -16.0  0.195 -9.000 -9.000 -999.   212.     41.6  0.2720  0.52  1.00  2.10  321.0  15.0 289.5  2.0    0  0.00   47.  1003.     2 NAD-SFC NoSubs
10  5  6 126 23  -16.1  0.195 -9.000 -9.000 -999.   207.     41.5  0.2720  0.52  1.00  2.10  311.0  15.0 288.2  2.0    0  0.00   50.  1004.     2 NAD-SFC NoSubs
10  5  6 126 24  -16.1  0.195 -9.000 -9.000 -999.   207.     41.4  0.2720  0.52  1.00  2.10  328.0  15.0 287.1  2.0    0  0.00   53.  1004.     2 NAD-SFC NoSubs
10  5  7 127  1  -16.7  0.200 -9.000 -9.000 -999.   214.     42.6  0.2930  0.52  1.00  2.10  334.0  15.0 286.2  2.0    0  0.00   56.  1004.     2 NAD-SFC NoSubs
10  5  7 127  2   -8.1  0.137 -9.000 -9.000 -999.   122.     28.4  0.2720  0.52  1.00  1.50  308.0  15.0 285.4  2.0    0  0.00   59.  1004.     2 NAD-SFC NoSubs
10  5  7 127  3   -3.7  0.097 -9.000 -9.000 -999.    73.     22.4  0.2160  0.52  1.00  1.00  282.0  15.0 284.8  2.0    0  0.00   61.  1005.     2 NAD-SFC NoSubs
10  5  7 127  4   -3.7  0.097 -9.000 -9.000 -999.    73.     22.4  0.2160  0.52  1.00  1.00  271.0  15.0 284.1  2.0    0  0.00   61.  1005.     2 NAD-SFC NoSubs
10  5  7 127  5   -1.5  0.080 -9.000 -9.000 -999.    54.     31.2  0.1750  0.52  1.00  0.50  263.0  15.0 283.6  2.0    0  0.00   62.  1005.     2 NAD-SFC NoSubs
10  5  7 127  6   -2.8  0.087 -9.000 -9.000 -999.    62.     21.6  0.1750  0.52  0.55  1.00  257.0  15.0 283.2  2.0    0  0.00   61.  1006.     2 NAD-SFC NoSubs
10  5  7 127  7   27.7  0.191  0.463  0.010  128.   201.    -22.6  0.2720  0.52  0.30  1.50  325.0  15.0 284.8  2.0    0  0.00   52.  1006.     2 NAD-SFC NoSubs
10  5  7 127  8   74.5  0.107  0.807  0.009  253.    86.     -1.5  0.2720  0.52  0.22  0.50  322.0  15.0 286.4  2.0    0  0.00   45.  1006.     2 NAD-SFC NoSubs
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10  5  7 127  9  115.3 -9.000 -9.000 -9.000  355. -999. -99999.0 0.2235 0.52 0.20 0.00   0.0 15.0 288.5 2.0 0 0.00 38. 1006.  2 NAD-SFC NoSubs
10  5  7 127 10  147.4 -9.000 -9.000 -9.000  517. -999. -99999.0 0.2235 0.52 0.19 0.00   0.0 15.0 290.2 2.0 0 0.00 34. 1005.  2 NAD-SFC NoSubs
10  5  7 127 11  169.2 -9.000 -9.000 -9.000  687. -999. -99999.0 0.2235 0.52 0.19 0.00   0.0 15.0 291.9 2.0 0 0.00 30. 1005.  2 NAD-SFC NoSubs
10  5  7 127 12  179.5  0.120  1.618  0.006  846.  100.     -1.0 0.2720 0.52 0.19 0.50 306.0 15.0 293.4 2.0 0 0.00 28. 1004.  2 NAD-SFC NoSubs
10  5  7 127 13  178.9  0.181  1.698  0.006  981.  185.     -3.0 0.2720 0.52 0.19 1.00 327.0 15.0 294.6 2.0 0 0.00 26. 1003.  2 NAD-SFC NoSubs
10  5  7 127 14  167.0  0.236  1.725  0.007 1102.  275.     -7.0 0.2930 0.52 0.19 1.50 344.0 15.0 295.5 2.0 0 0.00 25. 1003.  2 NAD-SFC NoSubs
10  5  7 127 15  143.7  0.337  1.688  0.008 1197.  470.    -23.8 0.2930 0.52 0.19 2.60 359.0 15.0 296.0 2.0 0 0.00 26. 1002.  2 NAD-SFC NoSubs
10  5  7 127 16  110.1  0.375  1.572  0.008 1263.  551.    -42.9 0.2940 0.52 0.20 3.10   6.0 15.0 295.8 2.0 0 0.00 28. 1002.  2 NAD-SFC NoSubs
10  5  7 127 17   68.0  0.269  1.352  0.008 1301.  342.    -25.7 0.2940 0.52 0.23 2.10  18.0 15.0 295.0 2.0 0 0.00 40. 1002.  2 NAD-SFC NoSubs
10  5  7 127 18   20.9  0.190  0.916  0.008 1312.  201.    -29.0 0.2940 0.52 0.33 1.50  19.0 15.0 294.6 2.0 0 0.00 42. 1002.  2 NAD-SFC NoSubs
10  5  7 127 19   -1.5  0.081 -9.000 -9.000 -999.   63.     31.0 0.2930 0.52 0.64 0.50 336.0 15.0 293.8 2.0 0 0.00 44. 1003.  2 NAD-SFC NoSubs
10  5  7 127 20   -1.5  0.080 -9.000 -9.000 -999.   54.     31.2 0.1950 0.52 1.00 0.50 229.0 15.0 292.5 2.0 0 0.00 48. 1003.  2 NAD-SFC NoSubs
10  5  7 127 21   -3.5  0.095 -9.000 -9.000 -999.   70.     22.1 0.1950 0.52 1.00 1.00 231.0 15.0 291.2 2.0 0 0.00 52. 1003.  2 NAD-SFC NoSubs
10  5  7 127 22   -6.9  0.126 -9.000 -9.000 -999.  107.     25.6 0.1950 0.52 1.00 1.50 238.0 15.0 290.2 2.0 0 0.00 53. 1004.  2 NAD-SFC NoSubs
10  5  7 127 23  -14.4  0.183 -9.000 -9.000 -999.  188.     38.0 0.2160 0.52 1.00 2.10 276.0 15.0 289.5 2.0 0 0.00 54. 1004.  2 NAD-SFC NoSubs
10  5  7 127 24  -38.0  0.354 -9.000 -9.000 -999.  506.    104.7 0.2930 0.52 1.00 3.60 333.0 15.0 288.5 2.0 0 0.00 58. 1004.  2 NAD-SFC NoSubs
10  5  8 128  1  -38.2  0.354 -9.000 -9.000 -999.  506.    104.3 0.2930 0.52 1.00 3.60 353.0 15.0 287.5 2.0 0 0.00 66. 1004.  2 NAD-SFC NoSubs
10  5  8 128  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.52 1.00 0.00   0.0 15.0 286.8 2.0 0 0.00 73. 1005.  2 NAD-SFC NoSubs
10  5  8 128  3  -26.1  0.251 -9.000 -9.000 -999.  302.     54.5 0.2930 0.52 1.00 2.60 357.0 15.0 286.0 2.0 0 0.00 75. 1005.  2 NAD-SFC NoSubs
10  5  8 128  4  -16.8  0.200 -9.000 -9.000 -999.  215.     42.5 0.2930 0.52 1.00 2.10 339.0 15.0 285.2 2.0 0 0.00 77. 1005.  2 NAD-SFC NoSubs
10  5  8 128  5   -8.4  0.140 -9.000 -9.000 -999.  126.     29.2 0.2930 0.52 1.00 1.50 337.0 15.0 284.6 2.0 0 0.00 79. 1005.  2 NAD-SFC NoSubs
10  5  8 128  6   10.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.52 0.54 0.00   0.0 15.0 284.1 2.0 0 0.00 80. 1006.  2 NAD-SFC NoSubs
10  5  8 128  7   28.5  0.195  0.556  0.009  217.  207.    -23.4 0.2930 0.52 0.30 1.50 359.0 15.0 285.2 2.0 0 0.00 71. 1007.  2 NAD-SFC NoSubs
10  5  8 128  8   75.2 -9.000 -9.000 -9.000  330. -999. -99999.0 0.2235 0.52 0.22 0.00   0.0 15.0 286.9 2.0 0 0.00 63. 1007.  2 NAD-SFC NoSubs
10  5  8 128  9  115.9 -9.000 -9.000 -9.000  459. -999. -99999.0 0.2235 0.52 0.20 0.00   0.0 15.0 288.6 2.0 0 0.00 57. 1007.  2 NAD-SFC NoSubs
10  5  8 128 10  147.9 -9.000 -9.000 -9.000  590. -999. -99999.0 0.2235 0.52 0.19 0.00   0.0 15.0 290.4 2.0 0 0.00 50. 1006.  2 NAD-SFC NoSubs
10  5  8 128 11  169.6 -9.000 -9.000 -9.000  721. -999. -99999.0 0.2235 0.52 0.19 0.00   0.0 15.0 292.2 2.0 0 0.00 42. 1006.  2 NAD-SFC NoSubs
10  5  8 128 12  180.0 -9.000 -9.000 -9.000  850. -999. -99999.0 0.2235 0.52 0.19 0.00   0.0 15.0 293.8 2.0 0 0.00 39. 1005.  2 NAD-SFC NoSubs
10  5  8 128 13  179.2  0.120  1.688  0.006  962.  100.     -1.0 0.2720 0.52 0.19 0.50 314.0 15.0 295.1 2.0 0 0.00 35. 1004.  3 NAD-SFC NoSubs
10  5  8 128 14  167.4  0.236  1.714  0.007 1079.  275.     -7.0 0.2930 0.52 0.19 1.50 339.0 15.0 296.0 2.0 0 0.00 33. 1004.  3 NAD-SFC NoSubs
10  5  8 128 15  144.4  0.337  1.678  0.007 1172.  470.    -23.7 0.2930 0.52 0.19 2.60 346.0 15.0 296.6 2.0 0 0.00 32. 1003.  3 NAD-SFC NoSubs
10  5  8 128 16  111.3 -9.000 -9.000 -9.000 1239. -999. -99999.0 0.2235 0.52 0.20 0.00   0.0 15.0 296.8 2.0 0 0.00 33. 1003.  3 NAD-SFC NoSubs
10  5  8 128 17   69.7  0.454  1.356  0.007 1278.  735.    -120.2 0.2940 0.52 0.23 4.10   8.0 15.0 296.2 2.0 0 0.00 38. 1002.  3 NAD-SFC NoSubs
10  5  8 128 18   23.0 -9.000 -9.000 -9.000 1287. -999. -99999.0 0.2235 0.52 0.33 0.00   0.0 15.0 295.4 2.0 0 0.00 49. 1003.  3 NAD-SFC NoSubs
10  5  8 128 19  -32.5  0.355 -9.000 -9.000 -999.  509.    123.6 0.2930 0.52 0.63 3.60 346.0 15.0 294.2 2.0 0 0.00 52. 1003.  3 NAD-SFC NoSubs
10  5  8 128 20  -40.9  0.397 -9.000 -9.000 -999.  600.    137.0 0.2720 0.52 1.00 4.10 329.0 15.0 292.8 2.0 0 0.00 56. 1003.  3 NAD-SFC NoSubs
10  5  8 128 21  -41.1  0.397 -9.000 -9.000 -999.  601.    136.3 0.2720 0.52 1.00 4.10 305.0 15.0 291.2 2.0 0 0.00 63. 1003.  3 NAD-SFC NoSubs
10  5  8 128 22  -43.8  0.420 -9.000 -9.000 -999.  653.    151.3 0.2160 0.52 1.00 4.60 282.0 15.0 289.2 2.0 0 0.00 71. 1004.  3 NAD-SFC NoSubs
10  5  8 128 23  -39.1  0.373 -9.000 -9.000 -999.  547.    118.4 0.2160 0.52 1.00 4.10 291.0 15.0 287.8 2.0 0 0.00 76. 1004.  3 NAD-SFC NoSubs
10  5  8 128 24  -36.5  0.347 -9.000 -9.000 -999.  491.    102.2 0.2720 0.52 1.00 3.60 302.0 15.0 286.6 2.0 0 0.00 80. 1005.  3 NAD-SFC NoSubs
10  5  9 129  1  -36.7  0.347 -9.000 -9.000 -999.  490.    101.9 0.2720 0.52 1.00 3.60 302.0 15.0 285.8 2.0 0 0.00 83. 1005.  3 NAD-SFC NoSubs
10  5  9 129  2  -24.5  0.246 -9.000 -9.000 -999.  299.     54.8 0.2720 0.52 1.00 2.60 325.0 15.0 285.1 2.0 0 0.00 84. 1006.  4 NAD-SFC NoSubs
10  5  9 129  3  -15.4  0.196 -9.000 -9.000 -999.  209.     44.0 0.2720 0.52 1.00 2.10 303.0 15.0 284.8 2.0 0 0.00 83. 1007.  5 NAD-SFC NoSubs
10  5  9 129  4   -9.8  0.178 -9.000 -9.000 -999.  180.     51.5 0.1750 0.52 1.00 2.10 265.0 15.0 284.4 2.0 0 0.00 83. 1007. 10 NAD-SFC NoSubs
10  5  9 129  5  -14.9  0.267 -9.000 -9.000 -999.  332.    115.0 0.1750 0.52 1.00 3.10 259.0 15.0 284.1 2.0 0 0.00 84. 1007. 10 NAD-SFC NoSubs
10  5  9 129  6  -13.1  0.283 -9.000 -9.000 -999.  362.    156.0 0.2160 0.52 0.53 3.10 273.0 15.0 284.1 2.0 0 0.00 84. 1008. 10 NAD-SFC NoSubs
10  5  9 129  7    4.4  0.254  0.217  0.005   83.  308.   -334.4 0.2160 0.52 0.30 2.60 276.0 15.0 284.4 2.0 0 0.00 82. 1008. 10 NAD-SFC NoSubs
10  5  9 129  8   62.2  0.293  0.982  0.007  548.  381.    -36.4 0.2160 0.52 0.22 2.60 276.0 15.0 284.6 2.0 0 0.00 78. 1008.  7 NAD-SFC NoSubs
10  5  9 129  9  114.7  0.266  1.312  0.008  708.  329.    -14.7 0.2160 0.52 0.20 2.10 295.0 15.0 285.0 2.0 0 0.00 73. 1008.  4 NAD-SFC NoSubs
10  5  9 129 10  145.3  0.168  1.486  0.008  814.  170.     -2.9 0.2160 0.52 0.19 1.00 276.0 15.0 285.5 2.0 0 0.00 69. 1008.  4 NAD-SFC NoSubs
10  5  9 129 11  166.0  0.108  1.619  0.008  920.   86.     -1.0 0.1750 0.52 0.19 0.50 261.0 15.0 286.2 2.0 0 0.00 66. 1008.  4 NAD-SFC NoSubs
10  5  9 129 12   42.5  0.144  1.039  0.008  947.  132.     -6.4 0.2160 0.52 0.19 1.00 286.0 15.0 287.8 2.0 0 0.00 58. 1007. 10 NAD-SFC NoSubs
10  5  9 129 13  118.4  0.212  1.494  0.007 1014.  234.     -7.2 0.2160 0.52 0.19 1.50 293.0 15.0 288.5 2.0 0 0.00 55. 1007.  8 NAD-SFC NoSubs
10  5  9 129 14  158.1  0.318  1.689  0.007 1096.  431.    -18.3 0.2160 0.52 0.19 2.60 296.0 15.0 289.8 2.0 0 0.00 50. 1006.  5 NAD-SFC NoSubs
10  5  9 129 15  136.4  0.485  1.640  0.007 1161.  811.    -75.1 0.2160 0.52 0.19 4.60 292.0 15.0 290.2 2.0 0 0.00 49. 1006.  5 NAD-SFC NoSubs
10  5  9 129 16  105.3  0.574  1.524  0.007 1208. 1041.   -160.7 0.2160 0.52 0.20 5.70 280.0 15.0 290.1 2.0 0 0.00 52. 1006.  5 NAD-SFC NoSubs
10  5  9 129 17   56.3  0.507  1.246  0.007 1233.  872.   -207.6 0.2160 0.52 0.23 5.10 288.0 15.0 289.9 2.0 0 0.00 56. 1006.  7 NAD-SFC NoSubs
10  5  9 129 18    3.1  0.314  0.473  0.007 1232.  456.   -901.1 0.2720 0.52 0.33 3.10 304.0 15.0 289.2 2.0 0 0.00 66. 1007. 10 NAD-SFC NoSubs
10  5  9 129 19  -22.0  0.280 -9.000 -9.000 -999.  357.     89.7 0.2160 0.52 0.63 3.10 298.0 15.0 287.8 2.0 0 0.25 76. 1008.  6 NAD-SFC NoSubs
10  5  9 129 20  -25.3  0.279 -9.000 -9.000 -999.  354.     77.3 0.2160 0.52 1.00 3.10 297.0 15.0 287.0 2.0 0 0.25 81. 1008.  6 NAD-SFC NoSubs
10  5  9 129 21  -22.5  0.299 -9.000 -9.000 -999.  392.    106.6 0.2720 0.52 1.00 3.10 303.0 15.0 286.4 2.0 0 0.00 82. 1009.  8 NAD-SFC NoSubs
10  5  9 129 22  -16.7  0.301 -9.000 -9.000 -999.  396.    146.5 0.2720 0.52 1.00 3.10 300.0 15.0 286.0 2.0 0 0.00 82. 1009. 10 NAD-SFC NoSubs
10  5  9 129 23  -23.5  0.280 -9.000 -9.000 -999.  355.     83.8 0.2160 0.52 1.00 3.10 299.0 15.0 285.6 2.0 0 0.00 83. 1009.  7 NAD-SFC NoSubs
10  5  9 129 24  -27.2  0.279 -9.000 -9.000 -999.  353.     71.6 0.2160 0.52 1.00 3.10 293.0 15.0 284.8 2.0 0 0.00 86. 1008.  5 NAD-SFC NoSubs
10  5 10 130  1  -27.3  0.279 -9.000 -9.000 -999.  353.     71.4 0.2160 0.52 1.00 3.10 281.0 15.0 284.1 2.0 0 0.00 89. 1009.  5 NAD-SFC NoSubs
10  5 10 130  2  -25.6  0.279 -9.000 -9.000 -999.  354.     76.2 0.2160 0.52 1.00 3.10 285.0 15.0 283.4 2.0 0 0.00 91. 1009.  6 NAD-SFC NoSubs
10  5 10 130  3  -25.0  0.328 -9.000 -9.000 -999.  450.    126.5 0.2160 0.52 1.00 3.60 276.0 15.0 283.0 2.0 0 0.00 90. 1009.  8 NAD-SFC NoSubs
10  5 10 130  4  -18.5  0.330 -9.000 -9.000 -999.  454.    174.0 0.2160 0.52 1.00 3.60 288.0 15.0 282.8 2.0 0 0.00 88. 1009. 10 NAD-SFC NoSubs
10  5 10 130  5  -15.8  0.282 -9.000 -9.000 -999.  361.    127.5 0.2160 0.52 1.00 3.10 286.0 15.0 282.9 2.0 0 0.00 85. 1009. 10 NAD-SFC NoSubs
10  5 10 130  6  -13.1  0.283 -9.000 -9.000 -999.  362.    156.2 0.2160 0.52 0.53 3.10 276.0 15.0 282.9 2.0 0 0.00 83. 1010. 10 NAD-SFC NoSubs
10  5 10 130  7    4.3  0.299  0.191  0.005   58.  392.   -562.1 0.2160 0.52 0.29 3.10 280.0 15.0 282.9 2.0 0 0.00 82. 1010. 10 NAD-SFC NoSubs
10  5 10 130  8   16.0  0.267  0.393  0.005  136.  332.   -107.6 0.2160 0.52 0.22 2.60 282.0 15.0 283.8 2.0 0 0.00 76. 1010. 10 NAD-SFC NoSubs
10  5 10 130  9   78.1 -9.000 -9.000 -9.000  397. -999. -99999.0 0.2235 0.52 0.20 0.00   0.0 15.0 285.6 2.0 0 0.00 68. 1010.  8 NAD-SFC NoSubs
10  5 10 130 10   34.8 -9.000 -9.000 -9.000  469. -999. -99999.0 0.2235 0.52 0.19 0.00   0.0 15.0 287.8 2.0 0 0.00 61. 1010. 10 NAD-SFC NoSubs
10  5 10 130 11  135.7  0.109  1.373  0.005  688.   86.     -1.0 0.2090 0.52 0.19 0.50  85.0 15.0 288.6 2.0 0 0.00 57. 1010.  7 NAD-SFC NoSubs
10  5 10 130 12  170.9 -9.000 -9.000 -9.000  990. -999. -99999.0 0.2235 0.52 0.19 0.00   0.0 15.0 290.1 2.0 0 0.00 50. 1009.  5 NAD-SFC NoSubs
10  5 10 130 13  176.0 -9.000 -9.000 -9.000 1189. -999. -99999.0 0.2235 0.52 0.19 0.00   0.0 15.0 291.0 2.0 0 0.00 45. 1008.  4 NAD-SFC NoSubs
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10  5 10 130 14  166.8 -9.000 -9.000 -9.000 1343. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 292.1  2.0   0  0.00  40. 1007.   3 NAD-SFC NoSubs
10  5 10 130 15  143.8  0.316  1.770  0.010 1386.  425.    -19.6 0.2160  0.52  0.19  2.60 292.0  15.0 292.8  2.0   0  0.00  38. 1006.   3 NAD-SFC NoSubs
10  5 10 130 16  109.5  0.618  1.628  0.010 1416. 1167.   -193.7 0.2160  0.52  0.20  6.20 287.0  15.0 291.9  2.0   0  0.00  46. 1006.   4 NAD-SFC NoSubs
10  5 10 130 17   56.9  0.507  1.313  0.010 1430.  880.   -205.9 0.2160  0.52  0.23  5.10 297.0  15.0 290.5  2.0   0  0.00  58. 1006.   7 NAD-SFC NoSubs
10  5 10 130 18   23.2  0.404  0.975  0.010 1436.  626.   -255.7 0.2160  0.52  0.32  4.10 285.0  15.0 289.6  2.0   0  0.00  63. 1006.   5 NAD-SFC NoSubs
10  5 10 130 19  -41.6  0.500 -9.000 -9.000 -999.  847.    269.8 0.1750  0.52  0.62  5.70 266.0  15.0 287.8  2.0   0  0.00  68. 1007.   5 NAD-SFC NoSubs
10  5 10 130 20  -47.8  0.468 -9.000 -9.000 -999.  769.    192.5 0.2160  0.52  1.00  5.10 282.0  15.0 285.6  2.0   0  0.00  78. 1007.   4 NAD-SFC NoSubs
10  5 10 130 21  -43.0  0.420 -9.000 -9.000 -999.  656.    154.8 0.2160  0.52  1.00  4.60 283.0  15.0 284.8  2.0   0  0.00  83. 1007.   4 NAD-SFC NoSubs
10  5 10 130 22  -38.3  0.373 -9.000 -9.000 -999.  548.    121.6 0.2160  0.52  1.00  4.10 278.0  15.0 284.2  2.0   0  0.00  85. 1008.   4 NAD-SFC NoSubs
10  5 10 130 23  -41.2  0.421 -9.000 -9.000 -999.  654.    162.3 0.2160  0.52  1.00  4.60 293.0  15.0 283.4  2.0   0  0.00  86. 1008.   5 NAD-SFC NoSubs
10  5 10 130 24  -43.4  0.420 -9.000 -9.000 -999.  653.    153.6 0.2160  0.52  1.00  4.60 295.0  15.0 282.8  2.0   0  0.00  85. 1008.   4 NAD-SFC NoSubs
10  5 11 131  1  -38.6  0.373 -9.000 -9.000 -999.  548.    120.6 0.2160  0.52  1.00  4.10 297.0  15.0 282.1  2.0   0  0.00  83. 1008.   4 NAD-SFC NoSubs
10  5 11 131  2  -33.8  0.325 -9.000 -9.000 -999.  447.     91.8 0.2160  0.52  1.00  3.60 297.0  15.0 281.5  2.0   0  0.00  83. 1009.   4 NAD-SFC NoSubs
10  5 11 131  3  -33.8  0.325 -9.000 -9.000 -999.  445.     91.6 0.2160  0.52  1.00  3.60 296.0  15.0 281.0  2.0   0  0.00  83. 1009.   4 NAD-SFC NoSubs
10  5 11 131  4  -30.9  0.297 -9.000 -9.000 -999.  388.     76.0 0.2720  0.52  1.00  3.10 315.0  15.0 280.5  2.0   0  0.00  84. 1009.   4 NAD-SFC NoSubs
10  5 11 131  5  -29.5  0.297 -9.000 -9.000 -999.  388.     80.0 0.2720  0.52  1.00  3.10 312.0  15.0 280.1  2.0   0  0.00  86. 1010.   5 NAD-SFC NoSubs
10  5 11 131  6  -14.5  0.250 -9.000 -9.000 -999.  301.     97.0 0.2720  0.52  0.52  2.60 308.0  15.0 280.2  2.0   0  0.00  85. 1011.   5 NAD-SFC NoSubs
10  5 11 131  7   31.5  0.430  0.530  0.005  170.  678.   -228.3 0.2720  0.52  0.29  4.10 327.0  15.0 282.2  2.0   0  0.00  75. 1011.   4 NAD-SFC NoSubs
10  5 11 131  8   76.9  0.403  0.999  0.005  468.  615.    -76.8 0.2720  0.52  0.22  3.60 329.0  15.0 283.8  2.0   0  0.00  67. 1011.   3 NAD-SFC NoSubs
10  5 11 131  9  115.6  0.422  1.300  0.005  686.  657.    -58.5 0.2930  0.52  0.20  3.60 334.0  15.0 285.1  2.0   0  0.00  58. 1011.   4 NAD-SFC NoSubs
10  5 11 131 10  146.3  0.467  1.546  0.005  913.  765.    -62.7 0.2720  0.52  0.19  4.10 326.0  15.0 286.6  2.0   0  0.00  51. 1011.   4 NAD-SFC NoSubs
10  5 11 131 11  169.4  0.572  1.762  0.005 1166. 1037.    -99.5 0.2930  0.52  0.19  5.10 335.0  15.0 287.9  2.0   0  0.00  46. 1010.   3 NAD-SFC NoSubs
10  5 11 131 12  179.4  0.677  1.897  0.005 1372. 1333.   -155.3 0.2930  0.52  0.19  6.20 333.0  15.0 289.2  2.0   0  0.00  41. 1009.   3 NAD-SFC NoSubs
10  5 11 131 13  178.6  0.723  1.945  0.005 1484. 1474.   -190.5 0.2930  0.52  0.19  6.70 343.0  15.0 290.2  2.0   0  0.00  40. 1008.   3 NAD-SFC NoSubs
10  5 11 131 14  166.8  0.709  1.942  0.005 1581. 1434.   -191.9 0.2720  0.52  0.19  6.70 327.0  15.0 290.9  2.0   0  0.00  39. 1007.   3 NAD-SFC NoSubs
10  5 11 131 15  143.8  0.717  1.880  0.005 1662. 1457.   -230.1 0.2930  0.52  0.19  6.70 345.0  15.0 291.5  2.0   0  0.00  38. 1006.   3 NAD-SFC NoSubs
10  5 11 131 16  110.9  0.663  1.745  0.005 1720. 1302.   -235.6 0.2930  0.52  0.20  6.20 342.0  15.0 291.9  2.0   0  0.00  37. 1006.   3 NAD-SFC NoSubs
10  5 11 131 17   69.8  0.548  1.505  0.006 1756.  989.   -211.6 0.2930  0.52  0.23  5.10 336.0  15.0 291.9  2.0   0  0.00  41. 1006.   3 NAD-SFC NoSubs
10  5 11 131 18   23.3  0.339  1.046  0.006 1766.  517.   -150.0 0.2930  0.52  0.32  3.10 342.0  15.0 291.2  2.0   0  0.00  50. 1006.   3 NAD-SFC NoSubs
10  5 11 131 19  -22.7  0.253 -9.000 -9.000 -999.  311.     63.8 0.2930  0.52  0.61  2.60 345.0  15.0 290.8  2.0   0  0.00  50. 1006.   3 NAD-SFC NoSubs
10  5 11 131 20   -4.0  0.102 -9.000 -9.000 -999.  100.     23.7 0.2930  0.52  1.00  1.00 334.0  15.0 289.8  2.0   0  0.00  52. 1006.   3 NAD-SFC NoSubs
10  5 11 131 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 289.2  2.0   0  0.00  53. 1006.   3 NAD-SFC NoSubs
10  5 11 131 22   -1.6  0.083 -9.000 -9.000 -999.   58.     31.8 0.2930  0.52  1.00  0.50 334.0  15.0 288.5  2.0   0  0.00  54. 1006.   3 NAD-SFC NoSubs
10  5 11 131 23  -13.1  0.173 -9.000 -9.000 -999.  173.     35.5 0.1750  0.52  1.00  2.10 262.0  15.0 286.9  2.0   0  0.00  59. 1006.   3 NAD-SFC NoSubs
10  5 11 131 24  -27.9  0.263 -9.000 -9.000 -999.  324.     58.7 0.1750  0.52  1.00  3.10 268.0  15.0 285.8  2.0   0  0.00  62. 1006.   3 NAD-SFC NoSubs
10  5 12 132  1  -29.5  0.278 -9.000 -9.000 -999.  352.     65.3 0.2160  0.52  1.00  3.10 276.0  15.0 285.0  2.0   0  0.00  65. 1006.   3 NAD-SFC NoSubs
10  5 12 132  2  -22.4  0.230 -9.000 -9.000 -999.  266.     49.0 0.2160  0.52  1.00  2.60 289.0  15.0 284.4  2.0   0  0.00  68. 1006.   3 NAD-SFC NoSubs
10  5 12 132  3   -8.0  0.137 -9.000 -9.000 -999.  125.     28.7 0.2720  0.52  1.00  1.50 302.0  15.0 284.0  2.0   0  0.00  69. 1006.   3 NAD-SFC NoSubs
10  5 12 132  4   -3.9  0.101 -9.000 -9.000 -999.   77.     23.3 0.2720  0.52  1.00  1.00 302.0  15.0 283.5  2.0   0  0.00  73. 1006.   3 NAD-SFC NoSubs
10  5 12 132  5   -1.5  0.081 -9.000 -9.000 -999.   55.     31.5 0.2160  0.52  1.00  0.50 279.0  15.0 282.9  2.0   0  0.00  76. 1007.   3 NAD-SFC NoSubs
10  5 12 132  6   -0.9  0.066 -9.000 -9.000 -999.   40.     26.7 0.1950  0.52  0.52  0.50 226.0  15.0 282.8  2.0   0  0.00  77. 1007.   3 NAD-SFC NoSubs
10  5 12 132  7   30.8  0.096  0.464  0.008  117.   72.     -2.6 0.2930  0.52  0.29  0.50 339.0  15.0 284.8  2.0   0  0.00  71. 1008.   2 NAD-SFC NoSubs
10  5 12 132  8   77.4  0.109  0.858  0.007  293.   86.     -1.5 0.2940  0.52  0.22  0.50   8.0  15.0 287.0  2.0   0  0.00  63. 1007.   2 NAD-SFC NoSubs
10  5 12 132  9  117.7 -9.000 -9.000 -9.000  443. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 288.8  2.0   0  0.00  56. 1007.   2 NAD-SFC NoSubs
10  5 12 132 10  149.5 -9.000 -9.000 -9.000  610. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 290.5  2.0   0  0.00  49. 1007.   2 NAD-SFC NoSubs
10  5 12 132 11  171.1 -9.000 -9.000 -9.000  859. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 292.1  2.0   0  0.00  44. 1006.   2 NAD-SFC NoSubs
10  5 12 132 12  181.3  0.114  1.743  0.006 1049.   93.     -1.0 0.2160  0.52  0.19  0.50 292.0  15.0 293.5  2.0   0  0.00  40. 1005.   2 NAD-SFC NoSubs
10  5 12 132 13  180.4  0.182  1.807  0.007 1174.  186.     -3.0 0.2720  0.52  0.19  1.00 325.0  15.0 294.8  2.0   0  0.00  36. 1004.   3 NAD-SFC NoSubs
10  5 12 132 14  168.6  0.295  1.820  0.007 1280.  384.    -13.6 0.2930  0.52  0.19  2.10 336.0  15.0 295.6  2.0   0  0.00  34. 1003.   3 NAD-SFC NoSubs
10  5 12 132 15  145.7  0.383  1.768  0.007 1359.  569.    -34.6 0.2930  0.52  0.19  3.10 354.0  15.0 296.0  2.0   0  0.00  33. 1003.   3 NAD-SFC NoSubs
10  5 12 132 16  112.3 -9.000 -9.000 -9.000 1407. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 295.9  2.0   0  0.00  35. 1002.   2 NAD-SFC NoSubs
10  5 12 132 17   70.7  0.408  1.415  0.007 1436.  626.    -86.1 0.2940  0.52  0.23  3.60  13.0  15.0 295.6  2.0   0  0.00  38. 1002.   2 NAD-SFC NoSubs
10  5 12 132 18   23.8  0.293  0.987  0.006 1444.  389.    -94.4 0.2940  0.52  0.32  2.60   7.0  15.0 295.0  2.0   0  0.00  46. 1002.   2 NAD-SFC NoSubs
10  5 12 132 19   -7.6  0.140 -9.000 -9.000 -999.  145.     32.2 0.2930  0.52  0.61  1.50 355.0  15.0 294.2  2.0   0  0.00  48. 1002.   2 NAD-SFC NoSubs
10  5 12 132 20   -3.9  0.101 -9.000 -9.000 -999.   77.     23.3 0.2720  0.52  1.00  1.00 302.0  15.0 293.2  2.0   0  0.00  51. 1002.   2 NAD-SFC NoSubs
10  5 12 132 21   -6.6  0.122 -9.000 -9.000 -999.  103.     24.8 0.1750  0.52  1.00  1.50 249.0  15.0 292.1  2.0   0  0.00  55. 1002.   2 NAD-SFC NoSubs
10  5 12 132 22  -13.1  0.173 -9.000 -9.000 -999.  173.     35.3 0.1750  0.52  1.00  2.10 252.0  15.0 291.0  2.0   0  0.00  58. 1002.   2 NAD-SFC NoSubs
10  5 12 132 23   -1.5  0.080 -9.000 -9.000 -999.   59.     31.2 0.1950  0.52  1.00  0.50 214.0  15.0 290.0  2.0   0  0.00  61. 1003.   2 NAD-SFC NoSubs
10  5 12 132 24   -1.5  0.080 -9.000 -9.000 -999.   55.     31.2 0.2130  0.52  1.00  0.50 107.0  15.0 288.9  2.0   0  0.00  64. 1003.   3 NAD-SFC NoSubs
10  5 13 133  1   -1.5  0.080 -9.000 -9.000 -999.   55.     31.3 0.2160  0.52  1.00  0.50 298.0  15.0 288.0  2.0   0  0.00  67. 1003.   3 NAD-SFC NoSubs
10  5 13 133  2   -7.2  0.129 -9.000 -9.000 -999.  111.     26.6 0.2160  0.52  1.00  1.50 293.0  15.0 287.4  2.0   0  0.00  68. 1003.   3 NAD-SFC NoSubs
10  5 13 133  3  -24.8  0.246 -9.000 -9.000 -999.  293.     53.8 0.2720  0.52  1.00  2.60 300.0  15.0 286.5  2.0   0  0.00  71. 1003.   3 NAD-SFC NoSubs
10  5 13 133  4  -14.3  0.183 -9.000 -9.000 -999.  189.     38.3 0.2160  0.52  1.00  2.10 286.0  15.0 285.8  2.0   0  0.00  75. 1003.   3 NAD-SFC NoSubs
10  5 13 133  5  -14.3  0.183 -9.000 -9.000 -999.  188.     38.2 0.2160  0.52  1.00  2.10 278.0  15.0 285.1  2.0   0  0.00  78. 1003.   3 NAD-SFC NoSubs
10  5 13 133  6  -11.2  0.187 -9.000 -9.000 -999.  194.     52.4 0.2160  0.52  0.51  2.10 287.0  15.0 284.8  2.0   0  0.00  79. 1004.   3 NAD-SFC NoSubs
10  5 13 133  7   31.7  0.298  0.485  0.006  129.  390.    -74.8 0.2930  0.52  0.29  2.60 334.0  15.0 286.2  2.0   0  0.00  69. 1004.   2 NAD-SFC NoSubs
10  5 13 133  8   78.1  0.107  0.813  0.008  246.  127.     -1.4 0.2720  0.52  0.22  0.50 319.0  15.0 288.2  2.0   0  0.00  61. 1004.   2 NAD-SFC NoSubs
10  5 13 133  9  118.6 -9.000 -9.000 -9.000  372. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 290.6  2.0   0  0.00  52. 1003.   2 NAD-SFC NoSubs
10  5 13 133 10  150.5 -9.000 -9.000 -9.000  551. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 292.8  2.0   0  0.00  45. 1003.   2 NAD-SFC NoSubs
10  5 13 133 11  172.2 -9.000 -9.000 -9.000  751. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 294.6  2.0   0  0.00  37. 1002.   2 NAD-SFC NoSubs
10  5 13 133 12  182.5 -9.000 -9.000 -9.000  976. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 296.1  2.0   0  0.00  32. 1001.   2 NAD-SFC NoSubs
10  5 13 133 13  181.9 -9.000 -9.000 -9.000 1224. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 297.4  2.0   0  0.00  30. 1000.   2 NAD-SFC NoSubs
10  5 13 133 14  170.2 -9.000 -9.000 -9.000 1385. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 298.4  2.0   0  0.00  28.  999.   2 NAD-SFC NoSubs
10  5 13 133 15  147.2  0.119  1.825  0.005 1474.   99.     -1.0 0.2930  0.52  0.19  0.50 335.0  15.0 299.1  2.0   0  0.00  26.  999.   2 NAD-SFC NoSubs
10  5 13 133 16  114.0  0.226  1.701  0.005 1539.  257.     -9.0 0.2940  0.52  0.20  1.50   2.0  15.0 299.2  2.0   0  0.00  26.  998.   2 NAD-SFC NoSubs
10  5 13 133 17   72.5  0.363  1.475  0.005 1577.  526.    -58.9 0.2940  0.52  0.23  3.10  12.0  15.0 298.9  2.0   0  0.00  32.  998.   2 NAD-SFC NoSubs
10  5 13 133 18   25.3  0.388  1.041  0.005 1587.  579.   -205.0 0.2940  0.52  0.32  3.60  12.0  15.0 297.6  2.0   0  0.00  44.  999.   2 NAD-SFC NoSubs
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10  5 13 133 19  -30.8  0.356 -9.000 -9.000 -999.  510.    130.2  0.2930  0.52  0.60   3.60  358.0  15.0  296.5   2.0    0   0.00   46.   999.     2 NAD-SFC NoSubs
10  5 13 133 20  -24.6  0.246 -9.000 -9.000 -999.  300.     53.9  0.2720  0.52  1.00   2.60  321.0  15.0  295.6   2.0    0   0.00   47.  1000.     2 NAD-SFC NoSubs
10  5 13 133 21  -46.7  0.443 -9.000 -9.000 -999.  707.    165.9  0.1750  0.52  1.00   5.10  269.0  15.0  292.6   2.0    0   0.00   57.  1000.     2 NAD-SFC NoSubs
10  5 13 133 22  -34.6  0.325 -9.000 -9.000 -999.  455.     88.7  0.2160  0.52  1.00   3.60  272.0  15.0  290.2   2.0    0   0.00   67.  1001.     2 NAD-SFC NoSubs
10  5 13 133 23   -6.6  0.123 -9.000 -9.000 -999.  153.     24.7  0.1750  0.52  1.00   1.50  267.0  15.0  290.1   2.0    0   0.00   66.  1002.     2 NAD-SFC NoSubs
10  5 13 133 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  290.0   2.0    0   0.00   64.  1002.     2 NAD-SFC NoSubs
10  5 14 134  1   -1.5  0.080 -9.000 -9.000 -999.   55.     31.3  0.1970  0.52  1.00   0.50  148.0  15.0  289.4   2.0    0   0.00   67.  1002.     2 NAD-SFC NoSubs
10  5 14 134  2   -7.0  0.126 -9.000 -9.000 -999.  107.     25.5  0.1950  0.52  1.00   1.50  225.0  15.0  288.8   2.0    0   0.00   69.  1003.     2 NAD-SFC NoSubs
10  5 14 134  3  -28.2  0.263 -9.000 -9.000 -999.  324.     57.7  0.1750  0.52  1.00   3.10  254.0  15.0  288.2   2.0    0   0.00   68.  1003.     2 NAD-SFC NoSubs
10  5 14 134  4  -33.2  0.308 -9.000 -9.000 -999.  410.     78.7  0.1750  0.52  1.00   3.60  268.0  15.0  287.2   2.0    0   0.00   69.  1003.     2 NAD-SFC NoSubs
10  5 14 134  5  -30.0  0.278 -9.000 -9.000 -999.  352.     63.9  0.2160  0.52  1.00   3.10  281.0  15.0  286.4   2.0    0   0.00   70.  1003.     2 NAD-SFC NoSubs
10  5 14 134  6  -15.0  0.234 -9.000 -9.000 -999.  272.     76.7  0.2160  0.52  0.51   2.60  280.0  15.0  285.9   2.0    0   0.00   71.  1004.     2 NAD-SFC NoSubs
10  5 14 134  7   32.5  0.293  0.450  0.005  100.  382.    -69.7  0.2720  0.52  0.29   2.60  312.0  15.0  287.6   2.0    0   0.00   63.  1005.     2 NAD-SFC NoSubs
10  5 14 134  8   79.0  0.203  0.777  0.009  213.  223.     -9.5  0.2160  0.52  0.22   1.50  294.0  15.0  289.6   2.0    0   0.00   57.  1005.     2 NAD-SFC NoSubs
10  5 14 134  9  119.5  0.164  1.041  0.006  339.  160.     -3.3  0.2160  0.52  0.20   1.00  274.0  15.0  292.2   2.0    0   0.00   48.  1005.     2 NAD-SFC NoSubs
10  5 14 134 10  151.5  0.112  1.307  0.005  528.   90.     -1.0  0.2160  0.52  0.19   0.50  283.0  15.0  294.6   2.0    0   0.00   39.  1004.     2 NAD-SFC NoSubs
10  5 14 134 11  173.3 -9.000 -9.000 -9.000  764. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  296.6   2.0    0   0.00   32.  1004.     2 NAD-SFC NoSubs
10  5 14 134 12  183.6 -9.000 -9.000 -9.000 1000. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  298.1   2.0    0   0.00   28.  1003.     2 NAD-SFC NoSubs
10  5 14 134 13  182.9 -9.000 -9.000 -9.000 1190. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  299.2   2.0    0   0.00   26.  1002.     2 NAD-SFC NoSubs
10  5 14 134 14  171.2  0.183  1.860  0.005 1345.  188.     -3.2  0.2930  0.52  0.19   1.00  340.0  15.0  300.0   2.0    0   0.00   24.  1001.     2 NAD-SFC NoSubs
10  5 14 134 15  148.1 -9.000 -9.000 -9.000 1479. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  300.5   2.0    0   0.00   24.  1001.     2 NAD-SFC NoSubs
10  5 14 134 16  115.0  0.377  1.718  0.005 1575.  555.    -41.4  0.2940  0.52  0.20   3.10   11.0  15.0  300.6   2.0    0   0.00   24.  1000.     2 NAD-SFC NoSubs
10  5 14 134 17   73.4  0.364  1.496  0.005 1630.  526.    -58.4  0.2940  0.52  0.23   3.10   14.0  15.0  299.9   2.0    0   0.00   32.  1000.     2 NAD-SFC NoSubs
10  5 14 134 18   26.4  0.342  1.069  0.005 1647.  479.   -134.3  0.2940  0.52  0.32   3.10   13.0  15.0  299.0   2.0    0   0.00   39.  1000.     2 NAD-SFC NoSubs
10  5 14 134 19  -25.6  0.305 -9.000 -9.000 -999.  405.     98.9  0.2940  0.52  0.60   3.10    8.0  15.0  298.1   2.0    0   0.00   40.  1001.     2 NAD-SFC NoSubs
10  5 14 134 20   -3.9  0.100 -9.000 -9.000 -999.  132.     23.3  0.2720  0.52  1.00   1.00  325.0  15.0  296.8   2.0    0   0.00   42.  1001.     2 NAD-SFC NoSubs
10  5 14 134 21  -46.6  0.443 -9.000 -9.000 -999.  707.    166.5  0.1750  0.52  1.00   5.10  260.0  15.0  293.6   2.0    0   0.00   54.  1002.     2 NAD-SFC NoSubs
10  5 14 134 22  -34.5  0.325 -9.000 -9.000 -999.  455.     89.0  0.2160  0.52  1.00   3.60  275.0  15.0  291.0   2.0    0   0.00   68.  1002.     2 NAD-SFC NoSubs
10  5 14 134 23  -29.6  0.278 -9.000 -9.000 -999.  353.     64.9  0.2160  0.52  1.00   3.10  273.0  15.0  290.5   2.0    0   0.00   68.  1003.     2 NAD-SFC NoSubs
10  5 14 134 24  -28.1  0.263 -9.000 -9.000 -999.  324.     58.1  0.1750  0.52  1.00   3.10  264.0  15.0  290.2   2.0    0   0.00   67.  1003.     2 NAD-SFC NoSubs
10  5 15 135  1   -3.6  0.097 -9.000 -9.000 -999.  102.     22.4  0.2160  0.52  1.00   1.00  270.0  15.0  289.8   2.0    0   0.00   67.  1003.     2 NAD-SFC NoSubs
10  5 15 135  2   -1.5  0.081 -9.000 -9.000 -999.   56.     31.5  0.2160  0.52  1.00   0.50  291.0  15.0  289.4   2.0    0   0.00   68.  1003.     2 NAD-SFC NoSubs
10  5 15 135  3   -7.3  0.129 -9.000 -9.000 -999.  111.     26.4  0.2160  0.52  1.00   1.50  285.0  15.0  288.5   2.0    0   0.00   73.  1003.     2 NAD-SFC NoSubs
10  5 15 135  4  -14.4  0.183 -9.000 -9.000 -999.  188.     37.9  0.2160  0.52  1.00   2.10  281.0  15.0  287.6   2.0    0   0.00   78.  1004.     2 NAD-SFC NoSubs
10  5 15 135  5  -22.6  0.230 -9.000 -9.000 -999.  265.     48.5  0.2160  0.52  1.00   2.60  290.0  15.0  287.0   2.0    0   0.00   83.  1004.     2 NAD-SFC NoSubs
10  5 15 135  6  -14.4  0.234 -9.000 -9.000 -999.  272.     80.1  0.2160  0.52  0.50   2.60  292.0  15.0  286.5   2.0    0   0.00   85.  1005.     2 NAD-SFC NoSubs
10  5 15 135  7   33.1  0.249  0.506  0.011  140.  298.    -41.9  0.2720  0.52  0.29   2.10  321.0  15.0  287.8   2.0    0   0.00   80.  1005.     2 NAD-SFC NoSubs
10  5 15 135  8   79.4  0.156  0.798  0.013  230.  151.     -4.3  0.2160  0.52  0.22   1.00  295.0  15.0  289.8   2.0    0   0.00   71.  1005.     2 NAD-SFC NoSubs
10  5 15 135  9  120.1  0.103  1.033  0.010  329.   80.     -1.0  0.1750  0.52  0.20   0.50  261.0  15.0  292.8   2.0    0   0.00   55.  1004.     2 NAD-SFC NoSubs
10  5 15 135 10  151.9 -9.000 -9.000 -9.000  445. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  294.9   2.0    0   0.00   44.  1004.     2 NAD-SFC NoSubs
10  5 15 135 11  173.8 -9.000 -9.000 -9.000  581. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  297.2   2.0    0   0.00   35.  1003.     2 NAD-SFC NoSubs
10  5 15 135 12  184.2 -9.000 -9.000 -9.000  727. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  299.0   2.0    0   0.00   30.  1002.     2 NAD-SFC NoSubs
10  5 15 135 13  183.8 -9.000 -9.000 -9.000  891. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  300.5   2.0    0   0.00   27.  1001.     2 NAD-SFC NoSubs
10  5 15 135 14  172.2  0.122  1.704  0.005 1026.  102.     -1.0  0.2930  0.52  0.19   0.50  332.0  15.0  301.6   2.0    0   0.00   25.  1000.     2 NAD-SFC NoSubs
10  5 15 135 15  149.3  0.180  1.680  0.005 1135.  184.     -3.5  0.2930  0.52  0.19   1.00  352.0  15.0  302.2   2.0    0   0.00   24.  1000.     2 NAD-SFC NoSubs
10  5 15 135 16  116.5  0.284  1.583  0.005 1215.  364.    -17.5  0.2930  0.52  0.20   2.10  353.0  15.0  302.9   2.0    0   0.00   25.   999.     2 NAD-SFC NoSubs
10  5 15 135 17   74.8  0.364  1.382  0.005 1260.  527.    -57.5  0.2940  0.52  0.23   3.10    8.0  15.0  302.0   2.0    0   0.00   35.   999.     2 NAD-SFC NoSubs
10  5 15 135 18   27.6  0.389  0.995  0.005 1272.  582.   -190.2  0.2940  0.52  0.31   3.60   19.0  15.0  300.4   2.0    0   0.00   46.   999.     2 NAD-SFC NoSubs
10  5 15 135 19  -24.7  0.305 -9.000 -9.000 -999.  408.    102.4  0.2930  0.52  0.59   3.10  335.0  15.0  299.5   2.0    0   0.00   47.  1000.     2 NAD-SFC NoSubs
10  5 15 135 20  -46.2  0.443 -9.000 -9.000 -999.  707.    167.9  0.1750  0.52  1.00   5.10  267.0  15.0  296.0   2.0    0   0.00   58.  1001.     2 NAD-SFC NoSubs
10  5 15 135 21  -44.2  0.420 -9.000 -9.000 -999.  654.    149.5  0.2160  0.52  1.00   4.60  273.0  15.0  293.4   2.0    0   0.00   63.  1001.     2 NAD-SFC NoSubs
10  5 15 135 22  -37.3  0.353 -9.000 -9.000 -999.  506.    105.1  0.1750  0.52  1.00   4.10  269.0  15.0  292.0   2.0    0   0.00   65.  1001.     2 NAD-SFC NoSubs
10  5 15 135 23  -27.9  0.263 -9.000 -9.000 -999.  328.     58.3  0.1750  0.52  1.00   3.10  266.0  15.0  291.1   2.0    0   0.00   68.  1001.     2 NAD-SFC NoSubs
10  5 15 135 24   -1.4  0.079 -9.000 -9.000 -999.  102.     31.0  0.1750  0.52  1.00   0.50  252.0  15.0  290.6   2.0    0   0.00   68.  1001.     2 NAD-SFC NoSubs
10  5 16 136  1   -7.1  0.128 -9.000 -9.000 -999.  110.     26.2  0.2090  0.52  1.00   1.50   89.0  15.0  290.4   2.0    0   0.00   69.  1002.     2 NAD-SFC NoSubs
10  5 16 136  2   -1.7  0.084 -9.000 -9.000 -999.   59.     32.1  0.2940  0.52  1.00   0.50   24.0  15.0  289.8   2.0    0   0.00   71.  1002.     2 NAD-SFC NoSubs
10  5 16 136  3   -1.4  0.079 -9.000 -9.000 -999.   54.     31.0  0.1750  0.52  1.00   0.50  266.0  15.0  289.2   2.0    0   0.00   74.  1002.     2 NAD-SFC NoSubs
10  5 16 136  4   -6.7  0.123 -9.000 -9.000 -999.  103.     24.7  0.1750  0.52  1.00   1.50  267.0  15.0  288.8   2.0    0   0.00   76.  1002.     2 NAD-SFC NoSubs
10  5 16 136  5  -14.4  0.183 -9.000 -9.000 -999.  188.     37.9  0.2160  0.52  1.00   2.10  281.0  15.0  288.2   2.0    0   0.00   77.  1002.     2 NAD-SFC NoSubs
10  5 16 136  6  -10.8  0.187 -9.000 -9.000 -999.  195.     54.3  0.2160  0.52  0.50   2.10  298.0  15.0  288.0   2.0    0   0.00   79.  1002.     2 NAD-SFC NoSubs
10  5 16 136  7   34.1  0.250  0.509  0.009  138.  299.    -40.9  0.2720  0.52  0.29   2.10  326.0  15.0  289.8   2.0    0   0.00   74.  1003.     2 NAD-SFC NoSubs
10  5 16 136  8   80.3  0.164  0.864  0.009  286.  162.     -4.9  0.2720  0.52  0.22   1.00  327.0  15.0  291.4   2.0    0   0.00   69.  1002.     2 NAD-SFC NoSubs
10  5 16 136  9  120.5 -9.000 -9.000 -9.000  442. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  293.1   2.0    0   0.00   63.  1002.     2 NAD-SFC NoSubs
10  5 16 136 10  152.4 -9.000 -9.000 -9.000  575. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  295.2   2.0    0   0.00   55.  1001.     2 NAD-SFC NoSubs
10  5 16 136 11  174.1 -9.000 -9.000 -9.000  708. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  297.2   2.0    0   0.00   47.  1000.     2 NAD-SFC NoSubs
10  5 16 136 12  184.5 -9.000 -9.000 -9.000  841. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  298.9   2.0    0   0.00   40.  1000.     2 NAD-SFC NoSubs
10  5 16 136 13  183.9  0.121  1.702  0.007  956.  101.     -1.0  0.2720  0.52  0.19   0.50  319.0  15.0  300.2   2.0    0   0.00   36.   999.     2 NAD-SFC NoSubs
10  5 16 136 14  172.3  0.181  1.720  0.007 1053.  184.     -3.0  0.2720  0.52  0.19   1.00  326.0  15.0  301.2   2.0    0   0.00   33.   998.     2 NAD-SFC NoSubs
10  5 16 136 15  149.5  0.291  1.681  0.006 1131.  377.    -14.7  0.2930  0.52  0.19   2.10  337.0  15.0  301.9   2.0    0   0.00   32.   997.     2 NAD-SFC NoSubs
10  5 16 136 16  116.4  0.377  1.571  0.006 1187.  555.    -40.8  0.2930  0.52  0.20   3.10  348.0  15.0  301.9   2.0    0   0.00   33.   997.     2 NAD-SFC NoSubs
10  5 16 136 17   74.7  0.364  1.367  0.006 1218.  527.    -57.4  0.2930  0.52  0.23   3.10  332.0  15.0  300.8   2.0    0   0.00   46.   998.     2 NAD-SFC NoSubs
10  5 16 136 18   28.1  0.496  0.989  0.006 1223.  838.   -386.6  0.2160  0.52  0.31   5.10  287.0  15.0  297.6   2.0    0   0.00   55.   999.     3 NAD-SFC NoSubs
10  5 16 136 19  -37.4  0.470 -9.000 -9.000 -999.  775.    247.8  0.2160  0.52  0.58   5.10  277.0  15.0  294.2   2.0    0   0.00   57.  1000.     3 NAD-SFC NoSubs
10  5 16 136 20  -45.5  0.443 -9.000 -9.000 -999.  709.    170.3  0.1750  0.52  1.00   5.10  269.0  15.0  292.4   2.0    0   0.00   60.  1000.     3 NAD-SFC NoSubs
10  5 16 136 21  -41.1  0.398 -9.000 -9.000 -999.  604.    136.7  0.1750  0.52  1.00   4.60  256.0  15.0  291.1   2.0    0   0.00   61.  1001.     3 NAD-SFC NoSubs
10  5 16 136 22  -33.7  0.325 -9.000 -9.000 -999.  449.     91.1  0.2160  0.52  1.00   3.60  275.0  15.0  290.2   2.0    0   0.00   62.  1001.     3 NAD-SFC NoSubs
10  5 16 136 23   -7.9  0.137 -9.000 -9.000 -999.  158.     29.0  0.2720  0.52  1.00   1.50  305.0  15.0  289.9   2.0    0   0.00   62.  1002.     3 NAD-SFC NoSubs
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10  5 16 136 24   -1.7  0.084 -9.000 -9.000 -999.   61.     32.1  0.2940  0.52  1.00  0.50   11.0  15.0 289.6  2.0    0  0.00   62.  1002.     2 NAD-SFC NoSubs
10  5 17 137  1   -1.6  0.084 -9.000 -9.000 -999.   58.     32.0  0.2720  0.52  1.00  0.50  325.0  15.0 289.1  2.0    0  0.00   62.  1003.     2 NAD-SFC NoSubs
10  5 17 137  2   -7.3  0.129 -9.000 -9.000 -999.  111.     26.4  0.2160  0.52  1.00  1.50  289.0  15.0 288.5  2.0    0  0.00   63.  1003.     2 NAD-SFC NoSubs
10  5 17 137  3  -16.0  0.195 -9.000 -9.000 -999.  207.     41.5  0.2720  0.52  1.00  2.10  300.0  15.0 287.9  2.0    0  0.00   65.  1003.     2 NAD-SFC NoSubs
10  5 17 137  4  -16.1  0.195 -9.000 -9.000 -999.  207.     41.4  0.2720  0.52  1.00  2.10  301.0  15.0 287.5  2.0    0  0.00   66.  1003.     2 NAD-SFC NoSubs
10  5 17 137  5  -14.4  0.183 -9.000 -9.000 -999.  188.     37.8  0.2160  0.52  1.00  2.10  296.0  15.0 287.2  2.0    0  0.00   67.  1003.     2 NAD-SFC NoSubs
10  5 17 137  6   -5.9  0.139 -9.000 -9.000 -999.  125.     40.7  0.2720  0.52  0.50  1.50  315.0  15.0 287.1  2.0    0  0.00   67.  1004.     2 NAD-SFC NoSubs
10  5 17 137  7   34.0  0.280  0.598  0.005  226.  356.    -57.8  0.2160  0.52  0.28  2.60  291.0  15.0 287.5  2.0    0  0.00   65.  1004.     2 NAD-SFC NoSubs
10  5 17 137  8   79.9  0.256  0.913  0.006  341.  312.    -18.9  0.2160  0.52  0.22  2.10  299.0  15.0 288.2  2.0    0  0.00   60.  1004.     2 NAD-SFC NoSubs
10  5 17 137  9  119.8  0.223  1.197  0.005  513.  253.     -8.3  0.2720  0.52  0.20  1.50  307.0  15.0 289.4  2.0    0  0.00   51.  1004.     2 NAD-SFC NoSubs
10  5 17 137 10  151.2 -9.000 -9.000 -9.000  708. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 290.8  2.0    0  0.00   44.  1004.     2 NAD-SFC NoSubs
10  5 17 137 11  172.5  0.113  1.640  0.006  916.   91.     -1.0  0.2090  0.52  0.19  0.50   71.0  15.0 292.0  2.0    0  0.00   39.  1003.     2 NAD-SFC NoSubs
10  5 17 137 12  182.3 -9.000 -9.000 -9.000 1051. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 293.0  2.0    0  0.00   37.  1003.     3 NAD-SFC NoSubs
10  5 17 137 13  181.6 -9.000 -9.000 -9.000 1155. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 294.2  2.0    0  0.00   34.  1002.     3 NAD-SFC NoSubs
10  5 17 137 14  170.0  0.119  1.808  0.006 1244.   99.     -1.0  0.2720  0.52  0.19  0.50  309.0  15.0 295.1  2.0    0  0.00   32.  1002.     3 NAD-SFC NoSubs
10  5 17 137 15  147.0  0.402  1.755  0.006 1315.  613.    -39.6  0.2160  0.52  0.19  3.60  293.0  15.0 295.1  2.0    0  0.00   34.  1002.     3 NAD-SFC NoSubs
10  5 17 137 16  114.0  0.619  1.634  0.006 1369. 1170.   -186.2  0.2160  0.52  0.20  6.20  295.0  15.0 294.0  2.0    0  0.00   44.  1002.     3 NAD-SFC NoSubs
10  5 17 137 17   72.4  0.609  1.414  0.006 1400. 1142.   -279.7  0.2160  0.52  0.23  6.20  288.0  15.0 292.0  2.0    0  0.00   59.  1003.     4 NAD-SFC NoSubs
10  5 17 137 18   26.9  0.382  1.019  0.006 1409.  618.   -185.0  0.2720  0.52  0.31  3.60  314.0  15.0 290.4  2.0    0  0.00   72.  1003.     5 NAD-SFC NoSubs
10  5 17 137 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.58  0.00    0.0  15.0 290.2  2.0    0  0.00   74.  1004.     5 NAD-SFC NoSubs
10  5 17 137 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0 290.0  2.0    0  0.00   75.  1004.     5 NAD-SFC NoSubs
10  5 17 137 21   -7.0  0.141 -9.000 -9.000 -999.  127.     35.9  0.2940  0.52  1.00  1.50    5.0  15.0 289.4  2.0    0  0.00   77.  1005.     8 NAD-SFC NoSubs
10  5 17 137 22   -3.2  0.096 -9.000 -9.000 -999.   71.     24.8  0.2940  0.52  1.00  1.00   14.0  15.0 288.8  2.0    0  0.00   78.  1005.     8 NAD-SFC NoSubs
10  5 17 137 23   -3.2  0.096 -9.000 -9.000 -999.   71.     24.8  0.2930  0.52  1.00  1.00  337.0  15.0 288.4  2.0    0  0.00   78.  1005.     8 NAD-SFC NoSubs
10  5 17 137 24   -0.9  0.065 -9.000 -9.000 -999.   39.     26.3  0.2930  0.52  1.00  0.50  351.0  15.0 288.0  2.0    0  0.00   78.  1005.    10 NAD-SFC NoSubs
10  5 18 138  1   -0.9  0.063 -9.000 -9.000 -999.   38.     26.0  0.2470  0.52  1.00  0.50   56.0  15.0 287.8  2.0    0  0.00   78.  1005.    10 NAD-SFC NoSubs
10  5 18 138  2   -3.0  0.091 -9.000 -9.000 -999.   65.     22.4  0.2090  0.52  1.00  1.00   73.0  15.0 287.6  2.0    0  0.00   80.  1005.     7 NAD-SFC NoSubs
10  5 18 138  3   -3.4  0.095 -9.000 -9.000 -999.   71.     23.0  0.2470  0.52  1.00  1.00   54.0  15.0 287.2  2.0    0  0.00   84.  1005.     6 NAD-SFC NoSubs
10  5 18 138  4   -3.4  0.097 -9.000 -9.000 -999.   73.     24.2  0.2930  0.52  1.00  1.00  342.0  15.0 287.0  2.0    0  0.00   87.  1005.     7 NAD-SFC NoSubs
10  5 18 138  5   -5.3  0.131 -9.000 -9.000 -999.  113.     37.8  0.2160  0.52  1.00  1.50  297.0  15.0 286.4  2.0    0  0.00   89.  1006.    10 NAD-SFC NoSubs
10  5 18 138  6   -4.5  0.132 -9.000 -9.000 -999.  116.     46.1  0.2160  0.52  0.49  1.50  286.0  15.0 286.2  2.0    0  0.00   90.  1006.    10 NAD-SFC NoSubs
10  5 18 138  7    6.0  0.256  0.381  0.005  331.  312.   -253.8  0.2160  0.52  0.28  2.60  283.0  15.0 286.1  2.0    0  0.00   86.  1007.    10 NAD-SFC NoSubs
10  5 18 138  8   73.6 -9.000 -9.000 -9.000  558. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0 287.2  2.0    0  0.00   79.  1007.     6 NAD-SFC NoSubs
10  5 18 138  9  119.1 -9.000 -9.000 -9.000  744. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0 289.2  2.0    0  0.00   68.  1007.     4 NAD-SFC NoSubs
10  5 18 138 10  144.7 -9.000 -9.000 -9.000  906. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 290.6  2.0    0  0.00   60.  1007.     5 NAD-SFC NoSubs
10  5 18 138 11  170.3 -9.000 -9.000 -9.000 1077. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 292.1  2.0    0  0.00   53.  1006.     4 NAD-SFC NoSubs
10  5 18 138 12  182.7 -9.000 -9.000 -9.000 1241. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 293.5  2.0    0  0.00   46.  1005.     3 NAD-SFC NoSubs
10  5 18 138 13  182.0 -9.000 -9.000 -9.000 1396. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 294.8  2.0    0  0.00   41.  1005.     3 NAD-SFC NoSubs
10  5 18 138 14  170.4  0.119  1.942  0.007 1542.   99.     -1.0  0.2720  0.52  0.19  0.50  312.0  15.0 295.5  2.0    0  0.00   37.  1004.     3 NAD-SFC NoSubs
10  5 18 138 15  147.7  0.232  1.897  0.009 1658.  269.     -7.6  0.2930  0.52  0.19  1.50  335.0  15.0 296.1  2.0    0  0.00   35.  1004.     3 NAD-SFC NoSubs
10  5 18 138 16  115.3  0.330  1.777  0.010 1745.  455.    -27.8  0.2930  0.52  0.20  2.60  355.0  15.0 296.4  2.0    0  0.00   35.  1003.     3 NAD-SFC NoSubs
10  5 18 138 17   74.6 -9.000 -9.000 -9.000 1774. -999. -99999.0  0.2235  0.52  0.23  0.00    0.0  15.0 296.4  2.0    0  0.00   35.  1003.     3 NAD-SFC NoSubs
10  5 18 138 18   28.4  0.296  1.123  0.010 1780.  387.    -81.7  0.2940  0.52  0.31  2.60    7.0  15.0 295.8  2.0    0  0.00   46.  1003.     3 NAD-SFC NoSubs
10  5 18 138 19  -23.1  0.306 -9.000 -9.000 -999.  406.    110.8  0.2940  0.52  0.57  3.10   11.0  15.0 295.2  2.0    0  0.00   47.  1004.     3 NAD-SFC NoSubs
10  5 18 138 20  -31.1  0.303 -9.000 -9.000 -999.  401.     80.3  0.2930  0.52  1.00  3.10  353.0  15.0 294.2  2.0    0  0.00   50.  1004.     3 NAD-SFC NoSubs
10  5 18 138 21  -25.5  0.252 -9.000 -9.000 -999.  304.     56.1  0.2930  0.52  1.00  2.60  341.0  15.0 293.1  2.0    0  0.00   54.  1005.     3 NAD-SFC NoSubs
10  5 18 138 22  -24.6  0.246 -9.000 -9.000 -999.  293.     54.3  0.2720  0.52  1.00  2.60  306.0  15.0 291.8  2.0    0  0.00   60.  1005.     3 NAD-SFC NoSubs
10  5 18 138 23  -22.2  0.231 -9.000 -9.000 -999.  266.     49.6  0.2160  0.52  1.00  2.60  286.0  15.0 290.4  2.0    0  0.00   66.  1005.     3 NAD-SFC NoSubs
10  5 18 138 24  -24.7  0.246 -9.000 -9.000 -999.  293.     54.1  0.2720  0.52  1.00  2.60  304.0  15.0 289.6  2.0    0  0.00   69.  1005.     3 NAD-SFC NoSubs
10  5 19 139  1  -36.3  0.347 -9.000 -9.000 -999.  490.    103.0  0.2720  0.52  1.00  3.60  319.0  15.0 288.8  2.0    0  0.00   74.  1005.     3 NAD-SFC NoSubs
10  5 19 139  2  -36.4  0.347 -9.000 -9.000 -999.  490.    102.6  0.2720  0.52  1.00  3.60  329.0  15.0 287.8  2.0    0  0.00   79.  1005.     3 NAD-SFC NoSubs
10  5 19 139  3  -25.7  0.252 -9.000 -9.000 -999.  308.     55.5  0.2930  0.52  1.00  2.60  344.0  15.0 287.2  2.0    0  0.00   83.  1006.     3 NAD-SFC NoSubs
10  5 19 139  4   -4.0  0.102 -9.000 -9.000 -999.   99.     23.6  0.2930  0.52  1.00  1.00  351.0  15.0 286.8  2.0    0  0.00   85.  1006.     3 NAD-SFC NoSubs
10  5 19 139  5   -1.5  0.081 -9.000 -9.000 -999.   55.     31.3  0.2130  0.52  1.00  0.50   99.0  15.0 286.2  2.0    0  0.00   86.  1006.     3 NAD-SFC NoSubs
10  5 19 139  6   17.2 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.49  0.00    0.0  15.0 286.1  2.0    0  0.00   87.  1007.     3 NAD-SFC NoSubs
10  5 19 139  7   36.0  0.098  0.616  0.008  233.   74.     -2.4  0.2940  0.52  0.28  0.50   23.0  15.0 287.4  2.0    0  0.00   79.  1007.     3 NAD-SFC NoSubs
10  5 19 139  8   80.9 -9.000 -9.000 -9.000  324. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0 289.1  2.0    0  0.00   70.  1007.     2 NAD-SFC NoSubs
10  5 19 139  9  120.9 -9.000 -9.000 -9.000  473. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0 290.9  2.0    0  0.00   61.  1007.     2 NAD-SFC NoSubs
10  5 19 139 10  152.4 -9.000 -9.000 -9.000  693. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 292.8  2.0    0  0.00   54.  1007.     2 NAD-SFC NoSubs
10  5 19 139 11  173.8 -9.000 -9.000 -9.000  940. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 294.4  2.0    0  0.00   48.  1006.     2 NAD-SFC NoSubs
10  5 19 139 12  183.9 -9.000 -9.000 -9.000 1078. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 295.8  2.0    0  0.00   43.  1005.     2 NAD-SFC NoSubs
10  5 19 139 13  183.4  0.115  1.826  0.008 1191.   93.     -1.0  0.2160  0.52  0.19  0.50  298.0  15.0 297.0  2.0    0  0.00   40.  1004.     2 NAD-SFC NoSubs
10  5 19 139 14  171.8  0.183  1.835  0.009 1289.  189.     -3.2  0.2930  0.52  0.19  1.00  341.0  15.0 298.1  2.0    0  0.00   36.  1003.     2 NAD-SFC NoSubs
10  5 19 139 15  149.0 -9.000 -9.000 -9.000 1359. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 298.8  2.0    0  0.00   34.  1003.     2 NAD-SFC NoSubs
10  5 19 139 16  116.3  0.330  1.657  0.009 1399.  456.    -27.7  0.2940  0.52  0.20  2.60   14.0  15.0 299.0  2.0    0  0.00   34.  1002.     2 NAD-SFC NoSubs
10  5 19 139 17   75.9  0.410  1.446  0.009 1424.  630.    -81.2  0.2940  0.52  0.23  3.60    8.0  15.0 298.8  2.0    0  0.00   36.  1002.     3 NAD-SFC NoSubs
10  5 19 139 18   29.9  0.297  1.062  0.009 1433.  397.    -78.4  0.2940  0.52  0.31  2.60   12.0  15.0 298.2  2.0    0  0.00   46.  1003.     3 NAD-SFC NoSubs
10  5 19 139 19  -21.7  0.306 -9.000 -9.000 -999.  406.    118.0  0.2940  0.52  0.57  3.10    5.0  15.0 297.6  2.0    0  0.00   47.  1003.     3 NAD-SFC NoSubs
10  5 19 139 20  -36.0  0.355 -9.000 -9.000 -999.  507.    110.7  0.2930  0.52  1.00  3.60  340.0  15.0 296.6  2.0    0  0.00   50.  1003.     3 NAD-SFC NoSubs
10  5 19 139 21  -41.6  0.406 -9.000 -9.000 -999.  621.    144.1  0.2930  0.52  1.00  4.10  332.0  15.0 294.8  2.0    0  0.00   57.  1004.     3 NAD-SFC NoSubs
10  5 19 139 22  -41.9  0.406 -9.000 -9.000 -999.  621.    143.1  0.2930  0.52  1.00  4.10  345.0  15.0 292.8  2.0    0  0.00   66.  1004.     3 NAD-SFC NoSubs
10  5 19 139 23  -41.2  0.397 -9.000 -9.000 -999.  601.    136.4  0.2720  0.52  1.00  4.10  328.0  15.0 291.4  2.0    0  0.00   74.  1005.     3 NAD-SFC NoSubs
10  5 19 139 24  -42.3  0.406 -9.000 -9.000 -999.  620.    141.7  0.2930  0.52  1.00  4.10  335.0  15.0 290.0  2.0    0  0.00   81.  1005.     3 NAD-SFC NoSubs
10  5 20 140  1  -36.3  0.347 -9.000 -9.000 -999.  492.    103.1  0.2720  0.52  1.00  3.60  324.0  15.0 289.0  2.0    0  0.00   86.  1005.     3 NAD-SFC NoSubs
10  5 20 140  2  -36.4  0.347 -9.000 -9.000 -999.  490.    102.8  0.2720  0.52  1.00  3.60  325.0  15.0 288.2  2.0    0  0.00   89.  1006.     3 NAD-SFC NoSubs
10  5 20 140  3  -30.1  0.297 -9.000 -9.000 -999.  389.     78.0  0.2720  0.52  1.00  3.10  309.0  15.0 287.6  2.0    0  0.00   92.  1006.     4 NAD-SFC NoSubs
10  5 20 140  4  -24.4  0.246 -9.000 -9.000 -999.  295.     55.0  0.2720  0.52  1.00  2.60  307.0  15.0 287.1  2.0    0  0.00   93.  1006.     4 NAD-SFC NoSubs
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10  5 20 140  5  -15.3  0.196 -9.000 -9.000 -999.  209.    44.2  0.2720  0.52  1.00  2.10  314.0  15.0  287.2  2.0   0  0.00   92.  1006.   5 NAD-SFC NoSubs
10  5 20 140  6   -5.2  0.204 -9.000 -9.000 -999.  221.   146.8  0.2720  0.52  0.49  2.10  302.0  15.0  287.2  2.0   0  0.00   91.  1007.   6 NAD-SFC NoSubs
10  5 20 140  7   31.3  0.486  0.606  0.006  256.  813.  -329.2  0.2930  0.52  0.28  4.60  337.0  15.0  287.9  2.0   0  0.00   80.  1007.   7 NAD-SFC NoSubs
10  5 20 140  8   66.9  0.361  0.919  0.008  416.  532.   -63.0  0.2930  0.52  0.22  3.10  340.0  15.0  288.4  2.0   0  0.00   78.  1007.   7 NAD-SFC NoSubs
10  5 20 140  9  115.9  0.284  1.192  0.008  524.  367.   -17.7  0.2930  0.52  0.20  2.10  339.0  15.0  288.8  2.0   0  0.00   77.  1006.   5 NAD-SFC NoSubs
10  5 20 140 10  145.0  0.228  1.368  0.007  635.  262.    -7.3  0.2720  0.52  0.19  1.50  311.0  15.0  289.8  2.0   0  0.00   72.  1006.   5 NAD-SFC NoSubs
10  5 20 140 11  170.5  0.233  1.530  0.006  754.  269.    -6.6  0.2720  0.52  0.19  1.50  304.0  15.0  291.2  2.0   0  0.00   67.  1005.   4 NAD-SFC NoSubs
10  5 20 140 12  182.8  0.182  1.641  0.005  866.  187.    -2.9  0.2720  0.52  0.19  1.00  301.0  15.0  292.5  2.0   0  0.00   63.  1004.   3 NAD-SFC NoSubs
10  5 20 140 13  182.4  0.182  1.701  0.005  967.  186.    -2.9  0.2720  0.52  0.19  1.00  309.0  15.0  294.4  2.0   0  0.00   54.  1003.   3 NAD-SFC NoSubs
10  5 20 140 14  171.1  0.337  1.754  0.005 1130.  470.   -20.0  0.2720  0.52  0.19  2.60  317.0  15.0  295.8  2.0   0  0.00   44.  1002.   3 NAD-SFC NoSubs
10  5 20 140 15  148.5  0.476  1.734  0.005 1256.  788.   -64.8  0.2930  0.52  0.19  4.10  340.0  15.0  296.5  2.0   0  0.00   37.  1002.   3 NAD-SFC NoSubs
10  5 20 140 16  115.6  0.617  1.633  0.005 1345. 1162.  -181.3  0.2930  0.52  0.20  5.70  339.0  15.0  296.5  2.0   0  0.00   33.  1001.   2 NAD-SFC NoSubs
10  5 20 140 17   74.4  0.549  1.425  0.006 1391.  984.  -199.0  0.2930  0.52  0.23  5.10  340.0  15.0  295.8  2.0   0  0.00   38.  1001.   2 NAD-SFC NoSubs
10  5 20 140 18   27.7  0.389  1.028  0.006 1403.  605.  -189.6  0.2930  0.52  0.31  3.60  345.0  15.0  294.2  2.0   0  0.00   49.  1002.   2 NAD-SFC NoSubs
10  5 20 140 19  -32.2  0.408 -9.000 -9.000 -999.  626.   188.4  0.2930  0.52  0.56  4.10  334.0  15.0  292.5  2.0   0  0.00   53.  1002.   2 NAD-SFC NoSubs
10  5 20 140 20  -42.2  0.397 -9.000 -9.000 -999.  600.   132.5  0.2720  0.52  1.00  4.10  326.0  15.0  290.9  2.0   0  0.00   55.  1002.   2 NAD-SFC NoSubs
10  5 20 140 21  -43.3  0.406 -9.000 -9.000 -999.  620.   137.8  0.2930  0.52  1.00  4.10  339.0  15.0  289.8  2.0   0  0.00   57.  1003.   2 NAD-SFC NoSubs
10  5 20 140 22  -37.1  0.347 -9.000 -9.000 -999.  492.   100.3  0.2720  0.52  1.00  3.60  329.0  15.0  288.9  2.0   0  0.00   57.  1003.   2 NAD-SFC NoSubs
10  5 20 140 23  -34.9  0.325 -9.000 -9.000 -999.  445.    88.0  0.2160  0.52  1.00  3.60  298.0  15.0  287.9  2.0   0  0.00   60.  1003.   2 NAD-SFC NoSubs
10  5 20 140 24  -32.0  0.296 -9.000 -9.000 -999.  388.    72.8  0.2720  0.52  1.00  3.10  306.0  15.0  286.9  2.0   0  0.00   63.  1003.   2 NAD-SFC NoSubs
10  5 21 141  1  -16.1  0.195 -9.000 -9.000 -999.  212.    41.3  0.2720  0.52  1.00  2.10  320.0  15.0  286.2  2.0   0  0.00   65.  1003.   2 NAD-SFC NoSubs
10  5 21 141  2   -8.1  0.137 -9.000 -9.000 -999.  122.    28.4  0.2720  0.52  1.00  1.50  322.0  15.0  285.6  2.0   0  0.00   66.  1003.   2 NAD-SFC NoSubs
10  5 21 141  3   -1.7  0.084 -9.000 -9.000 -999.   59.    32.1  0.2720  0.52  1.00  0.50  326.0  15.0  285.0  2.0   0  0.00   68.  1004.   2 NAD-SFC NoSubs
10  5 21 141  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  284.5  2.0   0  0.00   70.  1004.   2 NAD-SFC NoSubs
10  5 21 141  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  284.1  2.0   0  0.00   72.  1004.   3 NAD-SFC NoSubs
10  5 21 141  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.48  0.00    0.0  15.0  283.8  2.0   0  0.00   74.  1004.   3 NAD-SFC NoSubs
10  5 21 141  7   35.2  0.254  0.622  0.007  245.  308.   -42.0  0.2930  0.52  0.28  2.10  350.0  15.0  285.2  2.0   0  0.00   68.  1004.   2 NAD-SFC NoSubs
10  5 21 141  8   80.9  0.274  0.973  0.007  408.  344.   -22.7  0.2930  0.52  0.22  2.10  344.0  15.0  286.5  2.0   0  0.00   63.  1004.   2 NAD-SFC NoSubs
10  5 21 141  9  120.6  0.227  1.243  0.008  570.  260.    -8.7  0.2930  0.52  0.20  1.50  333.0  15.0  287.9  2.0   0  0.00   58.  1004.   2 NAD-SFC NoSubs
10  5 21 141 10  151.9  0.339  1.443  0.007  708.  473.   -22.9  0.2930  0.52  0.19  2.60  333.0  15.0  289.5  2.0   0  0.00   51.  1004.   2 NAD-SFC NoSubs
10  5 21 141 11  173.0  0.428  1.582  0.006  820.  672.   -40.6  0.2720  0.52  0.19  3.60  328.0  15.0  290.9  2.0   0  0.00   47.  1003.   3 NAD-SFC NoSubs
10  5 21 141 12  183.0  0.575  1.678  0.008  925. 1045.   -92.8  0.2930  0.52  0.19  5.10  344.0  15.0  292.2  2.0   0  0.00   44.  1003.   3 NAD-SFC NoSubs
10  5 21 141 13  182.2  0.724  1.745  0.011 1045. 1476.  -186.4  0.2930  0.52  0.19  6.70  342.0  15.0  293.0  2.0   0  0.00   42.  1003.   3 NAD-SFC NoSubs
10  5 21 141 14  170.5  0.769  1.770  0.010 1166. 1617.  -239.0  0.2930  0.52  0.19  7.20  337.0  15.0  293.2  2.0   0  0.00   42.  1003.   3 NAD-SFC NoSubs
10  5 21 141 15  147.7  0.813  1.733  0.010 1262. 1757.  -326.0  0.2930  0.52  0.19  7.70  345.0  15.0  293.2  2.0   0  0.00   42.  1003.   3 NAD-SFC NoSubs
10  5 21 141 16  115.2  0.808  1.624  0.010 1331. 1742.  -409.0  0.2930  0.52  0.20  7.70  353.0  15.0  293.0  2.0   0  0.00   42.  1003.   3 NAD-SFC NoSubs
10  5 21 141 17   74.5  0.702  1.412  0.012 1354. 1431.  -416.0  0.2930  0.52  0.22  6.70  353.0  15.0  292.4  2.0   0  0.00   46.  1003.   3 NAD-SFC NoSubs
10  5 21 141 18   28.4  0.437  1.026  0.012 1359.  774.  -261.7  0.2930  0.52  0.31  4.10  346.0  15.0  291.2  2.0   0  0.00   58.  1003.   3 NAD-SFC NoSubs
10  5 21 141 19  -34.7  0.461 -9.000 -9.000 -999.  751.   252.4  0.2930  0.52  0.56  4.60  349.0  15.0  289.4  2.0   0  0.00   66.  1004.   3 NAD-SFC NoSubs
10  5 21 141 20  -48.0  0.457 -9.000 -9.000 -999.  743.   178.6  0.2930  0.52  1.00  4.60  347.0  15.0  287.8  2.0   0  0.00   71.  1004.   3 NAD-SFC NoSubs
10  5 21 141 21  -41.2  0.406 -9.000 -9.000 -999.  623.   145.5  0.2930  0.52  1.00  4.10  351.0  15.0  286.6  2.0   0  0.00   73.  1004.   4 NAD-SFC NoSubs
10  5 21 141 22  -38.5  0.398 -9.000 -9.000 -999.  602.   146.3  0.2720  0.52  1.00  4.10  328.0  15.0  285.6  2.0   0  0.00   74.  1005.   5 NAD-SFC NoSubs
10  5 21 141 23  -36.3  0.398 -9.000 -9.000 -999.  603.   156.3  0.2720  0.52  1.00  4.10  318.0  15.0  285.2  2.0   0  0.00   74.  1006.   6 NAD-SFC NoSubs
10  5 21 141 24  -38.7  0.398 -9.000 -9.000 -999.  602.   145.7  0.2720  0.52  1.00  4.10  323.0  15.0  284.6  2.0   0  0.00   75.  1006.   5 NAD-SFC NoSubs
10  5 22 142  1  -36.5  0.398 -9.000 -9.000 -999.  603.   155.1  0.2720  0.52  1.00  4.10  313.0  15.0  283.2  2.0   0  0.00   78.  1006.   6 NAD-SFC NoSubs
10  5 22 142  2  -29.5  0.348 -9.000 -9.000 -999.  495.   128.6  0.2720  0.52  1.00  3.60  312.0  15.0  282.4  2.0   0  0.00   79.  1006.   7 NAD-SFC NoSubs
10  5 22 142  3  -29.6  0.348 -9.000 -9.000 -999.  493.   128.2  0.2720  0.52  1.00  3.60  312.0  15.0  281.6  2.0   0  0.00   79.  1006.   7 NAD-SFC NoSubs
10  5 22 142  4  -26.7  0.349 -9.000 -9.000 -999.  495.   142.6  0.2720  0.52  1.00  3.60  310.0  15.0  281.0  2.0   0  0.00   80.  1006.   8 NAD-SFC NoSubs
10  5 22 142  5  -25.4  0.298 -9.000 -9.000 -999.  392.    93.5  0.2720  0.52  1.00  3.10  318.0  15.0  280.6  2.0   0  0.00   81.  1007.   7 NAD-SFC NoSubs
10  5 22 142  6  -10.1  0.356 -9.000 -9.000 -999.  511.   402.8  0.2720  0.52  0.48  3.60  327.0  15.0  280.9  2.0   0  0.00   79.  1007.   6 NAD-SFC NoSubs
10  5 22 142  7   36.1  0.488  0.607  0.005  223.  818.  -289.2  0.2930  0.52  0.28  4.60  341.0  15.0  282.5  2.0   0  0.00   68.  1008.   5 NAD-SFC NoSubs
10  5 22 142  8   80.9  0.366  0.997  0.005  440.  542.   -54.4  0.2930  0.52  0.22  3.10  344.0  15.0  283.8  2.0   0  0.00   62.  1008.   4 NAD-SFC NoSubs
10  5 22 142  9  119.3  0.280  1.274  0.005  623.  360.   -16.5  0.2720  0.52  0.20  2.10  326.0  15.0  285.1  2.0   0  0.00   55.  1007.   4 NAD-SFC NoSubs
10  5 22 142 10  151.4  0.287  1.558  0.005  898.  368.   -14.0  0.2720  0.52  0.19  2.10  318.0  15.0  286.4  2.0   0  0.00   47.  1007.   3 NAD-SFC NoSubs
10  5 22 142 11  172.4  0.337  1.819  0.005 1254.  470.   -20.0  0.2720  0.52  0.19  2.60  316.0  15.0  287.8  2.0   0  0.00   39.  1006.   3 NAD-SFC NoSubs
10  5 22 142 12  182.2  0.437  1.930  0.006 1419.  693.   -41.1  0.2930  0.52  0.19  3.60  335.0  15.0  288.8  2.0   0  0.00   35.  1006.   3 NAD-SFC NoSubs
10  5 22 142 13  181.4  0.483  1.972  0.007 1518.  804.   -55.6  0.2930  0.52  0.19  4.10  338.0  15.0  289.5  2.0   0  0.00   33.  1005.   3 NAD-SFC NoSubs
10  5 22 142 14  169.7  0.572  1.965  0.008 1605. 1037.   -98.8  0.2930  0.52  0.19  5.10  342.0  15.0  290.0  2.0   0  0.00   34.  1004.   3 NAD-SFC NoSubs
10  5 22 142 15  147.1  0.568  1.901  0.009 1676. 1026.  -111.3  0.2930  0.52  0.19  5.10  348.0  15.0  290.2  2.0   0  0.00   35.  1004.   3 NAD-SFC NoSubs
10  5 22 142 16  114.7  0.617  1.768  0.009 1730. 1160.  -183.0  0.2930  0.52  0.20  5.70  336.0  15.0  290.2  2.0   0  0.00   37.  1004.   3 NAD-SFC NoSubs
10  5 22 142 17   74.1  0.549  1.540  0.009 1763.  983.  -200.0  0.2930  0.52  0.22  5.10  354.0  15.0  289.8  2.0   0  0.00   40.  1003.   3 NAD-SFC NoSubs
10  5 22 142 18   28.4  0.342  1.119  0.009 1770.  522.  -126.3  0.2930  0.52  0.30  3.10  346.0  15.0  289.2  2.0   0  0.00   51.  1003.   3 NAD-SFC NoSubs
10  5 22 142 19  -26.6  0.357 -9.000 -9.000 -999.  512.   153.1  0.2930  0.52  0.55  3.60  336.0  15.0  288.2  2.0   0  0.00   57.  1003.   3 NAD-SFC NoSubs
10  5 22 142 20  -41.1  0.406 -9.000 -9.000 -999.  621.   145.7  0.2930  0.52  1.00  4.10  335.0  15.0  286.9  2.0   0  0.00   66.  1004.   4 NAD-SFC NoSubs
10  5 22 142 21  -35.3  0.347 -9.000 -9.000 -999.  493.   106.0  0.2720  0.52  1.00  3.60  321.0  15.0  286.0  2.0   0  0.00   71.  1004.   4 NAD-SFC NoSubs
10  5 22 142 22  -35.4  0.347 -9.000 -9.000 -999.  491.   105.7  0.2720  0.52  1.00  3.60  304.0  15.0  285.0  2.0   0  0.00   74.  1004.   4 NAD-SFC NoSubs
10  5 22 142 23  -33.3  0.325 -9.000 -9.000 -999.  446.    92.6  0.2160  0.52  1.00  3.60  290.0  15.0  283.9  2.0   0  0.00   77.  1004.   4 NAD-SFC NoSubs
10  5 22 142 24  -33.5  0.325 -9.000 -9.000 -999.  446.    92.2  0.2160  0.52  1.00  3.60  284.0  15.0  282.8  2.0   0  0.00   79.  1004.   4 NAD-SFC NoSubs
10  5 23 143  1  -38.5  0.373 -9.000 -9.000 -999.  546.   120.5  0.2160  0.52  1.00  4.10  285.0  15.0  281.8  2.0   0  0.00   79.  1004.   4 NAD-SFC NoSubs
10  5 23 143  2  -36.7  0.373 -9.000 -9.000 -999.  547.   126.6  0.2160  0.52  1.00  4.10  281.0  15.0  281.1  2.0   0  0.00   80.  1004.   5 NAD-SFC NoSubs
10  5 23 143  3  -34.5  0.373 -9.000 -9.000 -999.  548.   135.3  0.2160  0.52  1.00  4.10  282.0  15.0  280.8  2.0   0  0.00   81.  1004.   6 NAD-SFC NoSubs
10  5 23 143  4  -28.7  0.375 -9.000 -9.000 -999.  551.   164.3  0.2160  0.52  1.00  4.10  274.0  15.0  280.6  2.0   0  0.00   83.  1004.   8 NAD-SFC NoSubs
10  5 23 143  5  -21.2  0.377 -9.000 -9.000 -999.  556.   226.7  0.2160  0.52  1.00  4.10  271.0  15.0  281.0  2.0   0  0.51   84.  1004.  10 NAD-SFC NoSubs
10  5 23 143  6   -5.3  0.227 -9.000 -9.000 -999.  275.   195.5  0.1750  0.52  0.48  2.60  269.0  15.0  281.6  2.0   0  0.51   82.  1004.   7 NAD-SFC NoSubs
10  5 23 143  7   36.6  0.527  0.639  0.005  255.  918.  -357.7  0.2720  0.52  0.28  5.10  325.0  15.0  283.4  2.0   0  0.00   64.  1004.   5 NAD-SFC NoSubs
10  5 23 143  8   81.4  0.608  1.100  0.005  586. 1137.  -247.6  0.2930  0.52  0.22  5.70  330.0  15.0  284.8  2.0   0  0.00   51.  1004.   4 NAD-SFC NoSubs
10  5 23 143  9  121.0  0.552  1.424  0.005  856.  990.  -124.6  0.2720  0.52  0.20  5.10  318.0  15.0  285.8  2.0   0  0.00   42.  1004.   3 NAD-SFC NoSubs
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10	5	23	143	10	151.8	0.514	1.648	0.005	1057.	886.	-79.9	0.2720	0.52	0.19	4.60	324.0	15.0	287.0	2.0	0	0.00	36.	1004.	3	NAD-SFC	NoSubs
10	5	23	143	11	172.7	0.518	1.804	0.005	1218.	894.	-71.9	0.2720	0.52	0.19	4.60	325.0	15.0	288.1	2.0	0	0.00	32.	1003.	3	NAD-SFC	NoSubs
10	5	23	143	12	182.5	0.575	1.914	0.005	1375.	1044.	-92.9	0.2930	0.52	0.19	5.10	332.0	15.0	289.2	2.0	0	0.00	29.	1002.	3	NAD-SFC	NoSubs
10	5	23	143	13	182.0	0.630	1.984	0.005	1537.	1199.	-122.9	0.2930	0.52	0.19	5.70	333.0	15.0	290.2	2.0	0	0.00	28.	1002.	2	NAD-SFC	NoSubs
10	5	23	143	14	170.4	0.722	1.998	0.005	1675.	1469.	-197.4	0.2930	0.52	0.19	6.70	345.0	15.0	291.0	2.0	0	0.00	27.	1002.	2	NAD-SFC	NoSubs
10	5	23	143	15	147.6	0.766	1.945	0.005	1785.	1604.	-271.5	0.2930	0.52	0.19	7.20	336.0	15.0	291.5	2.0	0	0.00	27.	1002.	2	NAD-SFC	NoSubs
10	5	23	143	16	115.1	0.760	1.816	0.005	1864.	1589.	-340.2	0.2930	0.52	0.20	7.20	330.0	15.0	291.8	2.0	0	0.00	28.	1002.	2	NAD-SFC	NoSubs
10	5	23	143	17	74.3	0.549	1.584	0.005	1913.	1028.	-199.3	0.2930	0.52	0.22	5.10	332.0	15.0	291.6	2.0	0	0.00	33.	1002.	2	NAD-SFC	NoSubs
10	5	23	143	18	28.1	0.336	1.149	0.005	1928.	521.	-120.9	0.2720	0.52	0.30	3.10	329.0	15.0	290.9	2.0	0	0.00	43.	1003.	2	NAD-SFC	NoSubs
10	5	23	143	19	-30.5	0.400	-9.000	-9.000	-999.	606.	187.4	0.2720	0.52	0.55	4.10	322.0	15.0	289.9	2.0	0	0.00	44.	1003.	2	NAD-SFC	NoSubs
10	5	23	143	20	-42.6	0.397	-9.000	-9.000	-999.	600.	131.4	0.2720	0.52	1.00	4.10	324.0	15.0	288.5	2.0	0	0.00	46.	1004.	2	NAD-SFC	NoSubs
10	5	23	143	21	-35.1	0.325	-9.000	-9.000	-999.	448.	87.7	0.2160	0.52	1.00	3.60	294.0	15.0	287.2	2.0	0	0.00	50.	1005.	2	NAD-SFC	NoSubs
10	5	23	143	22	-35.4	0.325	-9.000	-9.000	-999.	445.	87.1	0.2160	0.52	1.00	3.60	279.0	15.0	285.2	2.0	0	0.00	58.	1006.	2	NAD-SFC	NoSubs
10	5	23	143	23	-30.3	0.278	-9.000	-9.000	-999.	352.	63.4	0.2160	0.52	1.00	3.10	291.0	15.0	284.4	2.0	0	0.00	63.	1006.	2	NAD-SFC	NoSubs
10	5	23	143	24	-31.6	0.296	-9.000	-9.000	-999.	387.	73.9	0.2720	0.52	1.00	3.10	304.0	15.0	283.8	2.0	0	0.00	66.	1006.	3	NAD-SFC	NoSubs
10	5	24	144	1	-29.7	0.278	-9.000	-9.000	-999.	352.	64.9	0.2160	0.52	1.00	3.10	286.0	15.0	283.1	2.0	0	0.00	69.	1007.	3	NAD-SFC	NoSubs
10	5	24	144	2	-22.5	0.230	-9.000	-9.000	-999.	266.	48.8	0.2160	0.52	1.00	2.60	282.0	15.0	282.5	2.0	0	0.00	72.	1007.	3	NAD-SFC	NoSubs
10	5	24	144	3	-6.7	0.123	-9.000	-9.000	-999.	109.	24.7	0.1750	0.52	1.00	1.50	261.0	15.0	281.9	2.0	0	0.00	75.	1008.	3	NAD-SFC	NoSubs
10	5	24	144	4	-3.4	0.094	-9.000	-9.000	-999.	69.	21.7	0.1750	0.52	1.00	1.00	264.0	15.0	281.6	2.0	0	0.00	77.	1008.	3	NAD-SFC	NoSubs
10	5	24	144	5	-3.7	0.097	-9.000	-9.000	-999.	72.	22.4	0.2160	0.52	1.00	1.00	291.0	15.0	281.2	2.0	0	0.00	78.	1008.	3	NAD-SFC	NoSubs
10	5	24	144	6	-0.7	0.056	-9.000	-9.000	-999.	32.	24.0	0.2160	0.52	0.47	0.50	297.0	15.0	281.0	2.0	0	0.00	80.	1009.	3	NAD-SFC	NoSubs
10	5	24	144	7	36.9	0.092	0.553	0.005	164.	67.	-1.9	0.2160	0.52	0.28	0.50	295.0	15.0	282.9	2.0	0	0.00	71.	1009.	3	NAD-SFC	NoSubs
10	5	24	144	8	82.0	-9.000	-9.000	-9.000	414.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	284.2	2.0	0	0.00	65.	1009.	3	NAD-SFC	NoSubs
10	5	24	144	9	120.8	-9.000	-9.000	-9.000	594.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	285.2	2.0	0	0.00	61.	1009.	2	NAD-SFC	NoSubs
10	5	24	144	10	151.9	-9.000	-9.000	-9.000	771.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	286.8	2.0	0	0.00	57.	1009.	2	NAD-SFC	NoSubs
10	5	24	144	11	173.2	-9.000	-9.000	-9.000	938.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	288.8	2.0	0	0.00	49.	1008.	2	NAD-SFC	NoSubs
10	5	24	144	12	183.2	-9.000	-9.000	-9.000	1093.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	290.2	2.0	0	0.00	43.	1007.	2	NAD-SFC	NoSubs
10	5	24	144	13	182.4	-9.000	-9.000	-9.000	1231.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	291.8	2.0	0	0.00	37.	1006.	3	NAD-SFC	NoSubs
10	5	24	144	14	171.3	-9.000	-9.000	-9.000	1351.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	292.9	2.0	0	0.00	32.	1005.	2	NAD-SFC	NoSubs
10	5	24	144	15	148.6	0.177	1.823	0.005	1462.	179.	-3.4	0.2720	0.52	0.19	1.00	324.0	15.0	293.6	2.0	0	0.00	30.	1004.	2	NAD-SFC	NoSubs
10	5	24	144	16	116.5	0.284	1.712	0.005	1543.	363.	-17.6	0.2930	0.52	0.20	2.10	352.0	15.0	293.9	2.0	0	0.00	30.	1003.	3	NAD-SFC	NoSubs
10	5	24	144	17	76.3	0.364	1.503	0.006	1593.	528.	-56.7	0.2930	0.52	0.22	3.10	359.0	15.0	293.9	2.0	0	0.00	31.	1003.	3	NAD-SFC	NoSubs
10	5	24	144	18	30.5	0.297	1.111	0.006	1610.	392.	-77.1	0.2940	0.52	0.30	2.60	9.0	15.0	293.2	2.0	0	0.00	41.	1003.	3	NAD-SFC	NoSubs
10	5	24	144	19	-20.5	0.306	-9.000	-9.000	-999.	407.	125.5	0.2940	0.52	0.54	3.10	14.0	15.0	292.6	2.0	0	0.00	43.	1003.	3	NAD-SFC	NoSubs
10	5	24	144	20	-14.2	0.183	-9.000	-9.000	-999.	197.	38.8	0.2160	0.52	1.00	2.10	298.0	15.0	291.6	2.0	0	0.00	45.	1004.	3	NAD-SFC	NoSubs
10	5	24	144	21	-46.4	0.443	-9.000	-9.000	-999.	708.	167.9	0.1750	0.52	1.00	5.10	260.0	15.0	288.4	2.0	0	0.00	66.	1004.	3	NAD-SFC	NoSubs
10	5	24	144	22	-49.2	0.467	-9.000	-9.000	-999.	767.	185.8	0.2160	0.52	1.00	5.10	272.0	15.0	286.6	2.0	0	0.00	82.	1004.	3	NAD-SFC	NoSubs
10	5	24	144	23	-44.3	0.420	-9.000	-9.000	-999.	655.	149.4	0.2160	0.52	1.00	4.60	273.0	15.0	285.8	2.0	0	0.00	86.	1004.	3	NAD-SFC	NoSubs
10	5	24	144	24	-27.9	0.263	-9.000	-9.000	-999.	342.	58.6	0.1750	0.52	1.00	3.10	266.0	15.0	285.0	2.0	0	0.00	89.	1004.	3	NAD-SFC	NoSubs
10	5	25	145	1	-13.1	0.173	-9.000	-9.000	-999.	177.	35.4	0.1750	0.52	1.00	2.10	263.0	15.0	284.5	2.0	0	0.00	91.	1005.	3	NAD-SFC	NoSubs
10	5	25	145	2	-3.5	0.095	-9.000	-9.000	-999.	73.	22.0	0.1950	0.52	1.00	1.00	233.0	15.0	284.0	2.0	0	0.00	92.	1005.	3	NAD-SFC	NoSubs
10	5	25	145	3	-3.5	0.095	-9.000	-9.000	-999.	70.	22.0	0.1900	0.52	1.00	1.00	183.0	15.0	283.8	2.0	0	0.00	92.	1005.	3	NAD-SFC	NoSubs
10	5	25	145	4	-1.5	0.080	-9.000	-9.000	-999.	54.	31.2	0.1950	0.52	1.00	0.50	214.0	15.0	283.8	2.0	0	0.00	91.	1005.	3	NAD-SFC	NoSubs
10	5	25	145	5	-1.5	0.081	-9.000	-9.000	-999.	55.	31.4	0.2130	0.52	1.00	0.50	97.0	15.0	283.6	2.0	0	0.00	92.	1005.	3	NAD-SFC	NoSubs
10	5	25	145	6	-0.6	0.054	-9.000	-9.000	-999.	30.	23.4	0.2130	0.52	0.47	0.50	100.0	15.0	283.9	2.0	0	0.00	91.	1006.	3	NAD-SFC	NoSubs
10	5	25	145	7	37.5	-9.000	-9.000	-9.000	218.	-999.	-99999.0	0.2235	0.52	0.28	0.00	0.0	15.0	284.2	2.0	0	0.00	91.	1006.	3	NAD-SFC	NoSubs
10	5	25	145	8	82.5	0.099	1.029	0.007	474.	75.	-1.1	0.1810	0.52	0.22	0.50	174.0	15.0	285.0	2.0	0	0.00	85.	1006.	3	NAD-SFC	NoSubs
10	5	25	145	9	121.6	-9.000	-9.000	-9.000	649.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	286.8	2.0	0	0.00	77.	1006.	3	NAD-SFC	NoSubs
10	5	25	145	10	152.6	-9.000	-9.000	-9.000	771.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	288.8	2.0	0	0.00	67.	1006.	3	NAD-SFC	NoSubs
10	5	25	145	11	173.8	-9.000	-9.000	-9.000	890.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	290.6	2.0	0	0.00	58.	1005.	3	NAD-SFC	NoSubs
10	5	25	145	12	184.0	-9.000	-9.000	-9.000	1008.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	292.2	2.0	0	0.00	50.	1004.	2	NAD-SFC	NoSubs
10	5	25	145	13	183.4	0.121	1.797	0.006	1135.	101.	-1.0	0.2720	0.52	0.19	0.50	326.0	15.0	293.4	2.0	0	0.00	45.	1003.	2	NAD-SFC	NoSubs
10	5	25	145	14	171.8	0.237	1.812	0.007	1241.	277.	-6.9	0.2930	0.52	0.19	1.50	337.0	15.0	294.1	2.0	0	0.00	42.	1002.	3	NAD-SFC	NoSubs
10	5	25	145	15	149.2	0.338	1.768	0.007	1326.	472.	-23.2	0.2930	0.52	0.19	2.60	351.0	15.0	294.4	2.0	0	0.00	42.	1002.	3	NAD-SFC	NoSubs
10	5	25	145	16	117.3	0.377	1.655	0.007	1384.	555.	-40.8	0.2930	0.52	0.20	3.10	336.0	15.0	295.2	2.0	0	0.00	43.	1002.	3	NAD-SFC	NoSubs
10	5	25	145	17	77.0	0.403	1.450	0.007	1418.	615.	-76.2	0.2720	0.52	0.22	3.60	309.0	15.0	294.8	2.0	0	0.00	49.	1002.	3	NAD-SFC	NoSubs
10	5	25	145	18	31.0	0.409	1.073	0.007	1427.	627.	-196.9	0.2160	0.52	0.30	4.10	293.0	15.0	293.2	2.0	0	0.00	57.	1003.	3	NAD-SFC	NoSubs
10	5	25	145	19	-28.2	0.424	-9.000	-9.000	-999.	662.	241.7	0.2160	0.52	0.54	4.60	280.0	15.0	291.2	2.0	0	0.00	62.	1003.	3	NAD-SFC	NoSubs
10	5	25	145	20	-43.7	0.420	-9.000	-9.000	-999.	653.	151.7	0.2160	0.52	1.00	4.60	284.0	15.0	289.9	2.0	0	0.00	65.	1004.	3	NAD-SFC	NoSubs
10	5	25	145	21	-33.9	0.325	-9.000	-9.000	-999.	451.	90.9	0.2160	0.52	1.00	3.60	288.0	15.0	289.4	2.0	0	0.00	69.	1004.	3	NAD-SFC	NoSubs
10	5	25	145	22	-29.1	0.278	-9.000	-9.000	-999.	353.	66.3	0.2160	0.52	1.00	3.10	293.0	15.0	289.0	2.0	0	0.00	72.	1005.	3	NAD-SFC	NoSubs
10	5	25	145	23	-31.1	0.297	-9.000	-9.000	-999.	387.	75.2	0.2720	0.52	1.00	3.10	302.0	15.0	288.4	2.0	0	0.00	75.	1005.	3	NAD-SFC	NoSubs
10	5	25	145	24	-30.1	0.297	-9.000	-9.000	-999.	388.	78.0	0.2720	0.52	1.00	3.10	305.0	15.0	287.4	2.0	0	0.00	78.	1005.	4	NAD-SFC	NoSubs
10	5	26	146	1	-21.9	0.231	-9.000	-9.000	-999.	268.	50.3	0.2160	0.52	1.00	2.60	289.0	15.0	286.6	2.0	0	0.00	81.	1005.	4	NAD-SFC	NoSubs
10	5	26	146	2	-12.6	0.174	-9.000	-9.000	-999.	175.	37.3	0.1750	0.52	1.00	2.10	269.0	15.0	286.1	2.0	0	0.00	83.	1005.	5	NAD-SFC	NoSubs
10	5	26	146	3	-10.1	0.183	-9.000	-9.000	-999.	187.	54.0	0.1950	0.52	1.00	2.10	228.0	15.0	285.9	2.0	0	0.00	84.	1005.	10	NAD-SFC	NoSubs
10	5	26	146	4	-10.0	0.181	-9.000	-9.000	-999.	185.	53.3	0.1900	0.52	1.00	2.10	196.0	15.0	286.1	2.0	0	0.00	84.	1004.	10	NAD-SFC	NoSubs
10	5	26	146	5	-4.9	0.125	-9.000	-9.000	-999.	106.	35.4	0.1810	0.52	1.00	1.50	179.0	15.0	286.2	2.0	0	0.00	84.	1004.	10	NAD-SFC	NoSubs
10	5	26	146	6	-1.7	0.082	-9.000	-9.000	-999.	57.	29.0	0.1810	0.52	0.47	1.00	158.0	15.0	286.2	2.0	0	0.00	85.	1005.	10	NAD-SFC	NoSubs
10	5	26	146	7	32.7	0.140	0.568	0.005	201.	126.	-7.6	0.2160	0.52	0.28	1.00	280.0	15.0	286.9	2.0	0	0.00	79.	1005.	7	NAD-SFC	NoSubs
10	5	26	146	8	80.6	-9.000	-9.000	-9.000	429.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	288.0	2.0	0	0.00	73.	1005.	5	NAD-SFC	NoSubs
10	5	26	146	9	121.0	-9.000	-9.000	-9.000	848.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	288.8	2.0	0	0.00	68.	1005.	4	NAD-SFC	NoSubs
10	5	26	146	10	151.2	-9.000	-9.000	-9.000	1080.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	290.2	2.0	0	0.00	60.	1005.	4	NAD-SFC	NoSubs
10	5	26	146	11	171.9	-9.000	-9.000	-9.000	1223.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	291.8	2.0	0	0.00	51.	1004.	4	NAD-SFC	NoSubs
10	5	26	146	12	184.2	-9.000	-9.000	-9.000	1358.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	293.0	2.0	0	0.00	43.	1003.	3	NAD-SFC	NoSubs
10	5	26	146	13	183.6	-9.000	-9.000	-9.000	1466.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.1	2.0	0	0.00	38.	1002.	3	NAD-SFC	NoSubs
10	5	26	146	14	172.3	-9.000	-9.000	-9.000	1562.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.1	2.0	0	0.00	33.	1002.	3	NAD-SFC	NoSubs

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10  5 26 146 15  149.9  0.117  1.901  0.006 1640.   96.     -1.0  0.2720  0.52  0.19  0.50  317.0  15.0  295.8  2.0   0  0.00   30.  1001.    2 NAD-SFC NoSubs
10  5 26 146 16  117.7 -9.000 -9.000 -9.000 1699. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  296.2  2.0   0  0.00   27.  1001.    2 NAD-SFC NoSubs
10  5 26 146 17   77.2  0.255  1.554  0.006 1737.  310.    -19.3  0.2160  0.52  0.22  2.10  284.0  15.0  296.4  2.0   0  0.00   25.  1001.    2 NAD-SFC NoSubs
10  5 26 146 18   30.8  0.349  1.147  0.006 1748.  495.   -123.0  0.1750  0.52  0.30  3.60  257.0  15.0  294.9  2.0   0  0.00   39.  1001.    2 NAD-SFC NoSubs
10  5 26 146 19  -32.8  0.472 -9.000 -9.000 -999.  777.    286.1  0.2160  0.52  0.53  5.10  272.0  15.0  291.8  2.0   0  0.00   49.  1002.    2 NAD-SFC NoSubs
10  5 26 146 20  -42.5  0.398 -9.000 -9.000 -999.  606.    132.3  0.1750  0.52  1.00  4.60  260.0  15.0  289.4  2.0   0  0.00   55.  1003.    2 NAD-SFC NoSubs
10  5 26 146 21  -33.1  0.308 -9.000 -9.000 -999.  415.     79.0  0.1750  0.52  1.00  3.60  258.0  15.0  288.0  2.0   0  0.00   61.  1003.    2 NAD-SFC NoSubs
10  5 26 146 22  -13.2  0.173 -9.000 -9.000 -999.  185.     35.0  0.1750  0.52  1.00  2.10  269.0  15.0  287.4  2.0   0  0.00   63.  1004.    2 NAD-SFC NoSubs
10  5 26 146 23   -1.7  0.085 -9.000 -9.000 -999.   64.     32.2  0.2940  0.52  1.00  0.50   17.0  15.0  286.9  2.0   0  0.00   66.  1005.    2 NAD-SFC NoSubs
10  5 26 146 24  -15.4  0.190 -9.000 -9.000 -999.  198.     39.8  0.2470  0.52  1.00  2.10   58.0  15.0  286.4  2.0   0  0.00   69.  1005.    2 NAD-SFC NoSubs
10  5 27 147  1  -30.5  0.288 -9.000 -9.000 -999.  372.     70.5  0.2470  0.52  1.00  3.10   48.0  15.0  285.8  2.0   0  0.00   71.  1005.    3 NAD-SFC NoSubs
10  5 27 147  2  -16.6  0.200 -9.000 -9.000 -999.  218.     43.2  0.2940  0.52  1.00  2.10   23.0  15.0  285.2  2.0   0  0.00   75.  1005.    3 NAD-SFC NoSubs
10  5 27 147  3   -8.0  0.137 -9.000 -9.000 -999.  123.     28.7  0.2720  0.52  1.00  1.50  314.0  15.0  284.8  2.0   0  0.00   80.  1005.    3 NAD-SFC NoSubs
10  5 27 147  4   -6.5  0.122 -9.000 -9.000 -999.  103.     25.2  0.1750  0.52  1.00  1.50  261.0  15.0  284.2  2.0   0  0.00   84.  1005.    4 NAD-SFC NoSubs
10  5 27 147  5  -27.8  0.271 -9.000 -9.000 -999.  338.     64.0  0.1950  0.52  1.00  3.10  228.0  15.0  283.5  2.0   0  0.00   87.  1005.    4 NAD-SFC NoSubs
10  5 27 147  6   -7.0  0.327 -9.000 -9.000 -999.  450.    446.3  0.1950  0.52  0.47  3.60  233.0  15.0  283.6  2.0   0  0.00   87.  1005.    5 NAD-SFC NoSubs
10  5 27 147  7   38.0  0.270  0.718  0.006  348.  339.    -46.7  0.1750  0.52  0.28  2.60  242.0  15.0  284.8  2.0   0  0.00   79.  1006.    5 NAD-SFC NoSubs
10  5 27 147  8   82.8  0.099  1.040  0.005  487.  107.     -1.0  0.1810  0.52  0.22  0.50  165.0  15.0  286.6  2.0   0  0.00   70.  1005.    4 NAD-SFC NoSubs
10  5 27 147  9  121.0  0.158  1.276  0.005  617.  151.     -2.9  0.1810  0.52  0.20  1.00  152.0  15.0  287.9  2.0   0  0.00   64.  1005.    4 NAD-SFC NoSubs
10  5 27 147 10  151.1  0.166  1.495  0.005  794.  162.     -2.7  0.1970  0.52  0.19  1.00  147.0  15.0  289.2  2.0   0  0.00   57.  1005.    4 NAD-SFC NoSubs
10  5 27 147 11  171.8  0.109  1.674  0.005  979.   87.     -1.0  0.1810  0.52  0.19  0.50  163.0  15.0  290.9  2.0   0  0.00   49.  1004.    4 NAD-SFC NoSubs
10  5 27 147 12  184.1 -9.000 -9.000 -9.000 1220. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  292.2  2.0   0  0.00   43.  1003.    3 NAD-SFC NoSubs
10  5 27 147 13  183.6 -9.000 -9.000 -9.000 1395. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  293.5  2.0   0  0.00   38.  1003.    3 NAD-SFC NoSubs
10  5 27 147 14  172.3 -9.000 -9.000 -9.000 1511. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  294.5  2.0   0  0.00   35.  1002.    3 NAD-SFC NoSubs
10  5 27 147 15  150.0  0.169  1.888  0.005 1606.  167.     -2.9  0.2160  0.52  0.19  1.00  274.0  15.0  295.1  2.0   0  0.00   33.  1002.    3 NAD-SFC NoSubs
10  5 27 147 16  118.1  0.353  1.768  0.005 1676.  503.    -33.3  0.2160  0.52  0.20  3.10  276.0  15.0  295.4  2.0   0  0.00   33.  1002.    3 NAD-SFC NoSubs
10  5 27 147 17   77.8  0.514  1.551  0.005 1718.  884.   -156.0  0.2160  0.52  0.22  5.10  278.0  15.0  294.8  2.0   0  0.00   39.  1002.    3 NAD-SFC NoSubs
10  5 27 147 18   31.9  0.433  1.155  0.005 1731.  690.   -227.9  0.1750  0.52  0.30  4.60  267.0  15.0  293.1  2.0   0  0.00   54.  1003.    3 NAD-SFC NoSubs
10  5 27 147 19  -29.9  0.473 -9.000 -9.000 -999.  779.    315.7  0.2160  0.52  0.53  5.10  285.0  15.0  290.8  2.0   0  0.00   63.  1004.    3 NAD-SFC NoSubs
10  5 27 147 20  -43.9  0.420 -9.000 -9.000 -999.  656.    151.0  0.2160  0.52  1.00  4.60  281.0  15.0  288.8  2.0   0  0.00   70.  1004.    3 NAD-SFC NoSubs
10  5 27 147 21  -39.2  0.373 -9.000 -9.000 -999.  548.    118.3  0.2160  0.52  1.00  4.10  295.0  15.0  287.4  2.0   0  0.00   76.  1005.    3 NAD-SFC NoSubs
10  5 27 147 22  -29.4  0.278 -9.000 -9.000 -999.  357.     65.7  0.2160  0.52  1.00  3.10  296.0  15.0  286.4  2.0   0  0.00   81.  1006.    3 NAD-SFC NoSubs
10  5 27 147 23  -22.0  0.231 -9.000 -9.000 -999.  267.     50.2  0.2160  0.52  1.00  2.60  296.0  15.0  285.9  2.0   0  0.00   82.  1006.    4 NAD-SFC NoSubs
10  5 27 147 24  -21.5  0.231 -9.000 -9.000 -999.  267.     51.6  0.2160  0.52  1.00  2.60  290.0  15.0  285.4  2.0   0  0.00   83.  1006.    5 NAD-SFC NoSubs
10  5 28 148  1  -13.0  0.235 -9.000 -9.000 -999.  273.     89.1  0.2160  0.52  1.00  2.60  280.0  15.0  285.0  2.0   0  0.00   84.  1006.   10 NAD-SFC NoSubs
10  5 28 148  2  -13.1  0.235 -9.000 -9.000 -999.  273.     88.9  0.2160  0.52  1.00  2.60  284.0  15.0  284.4  2.0   0  0.00   86.  1007.   10 NAD-SFC NoSubs
10  5 28 148  3  -15.7  0.282 -9.000 -9.000 -999.  360.    128.1  0.2160  0.52  1.00  3.10  288.0  15.0  284.0  2.0   0  0.00   86.  1007.   10 NAD-SFC NoSubs
10  5 28 148  4  -18.4  0.330 -9.000 -9.000 -999.  454.    174.6  0.2160  0.52  1.00  3.60  298.0  15.0  283.8  2.0   0  0.00   85.  1007.   10 NAD-SFC NoSubs
10  5 28 148  5  -22.5  0.402 -9.000 -9.000 -999.  612.    259.7  0.2720  0.52  1.00  4.10  304.0  15.0  283.2  2.0   0  0.00   85.  1007.   10 NAD-SFC NoSubs
10  5 28 148  6  -13.9  0.381 -9.000 -9.000 -999.  565.    356.6  0.2160  0.52  0.46  4.10  298.0  15.0  283.2  2.0   0  0.00   83.  1008.   10 NAD-SFC NoSubs
10  5 28 148  7    6.4  0.366  0.254  0.005   92.  532.   -691.3  0.2720  0.52  0.28  3.60  324.0  15.0  283.9  2.0   0  0.00   80.  1009.   10 NAD-SFC NoSubs
10  5 28 148  8   17.8  0.376  0.492  0.005  241.  552.   -267.8  0.2720  0.52  0.22  3.60  326.0  15.0  284.4  2.0   0  0.00   79.  1009.   10 NAD-SFC NoSubs
10  5 28 148  9   27.8  0.342  0.641  0.005  340.  480.   -129.4  0.2930  0.52  0.20  3.10  344.0  15.0  285.2  2.0   0  0.00   77.  1009.   10 NAD-SFC NoSubs
10  5 28 148 10   35.8  0.255  0.758  0.005  437.  312.    -41.6  0.2930  0.52  0.19  2.10  346.0  15.0  286.6  2.0   0  0.00   71.  1009.   10 NAD-SFC NoSubs
10  5 28 148 11   41.2  0.202  0.846  0.005  528.  219.    -18.0  0.2930  0.52  0.19  1.50  352.0  15.0  287.8  2.0   0  0.00   63.  1009.   10 NAD-SFC NoSubs
10  5 28 148 12  174.8  0.237  1.587  0.005  824.  278.     -6.9  0.2940  0.52  0.19  1.50   14.0  15.0  289.5  2.0   0  0.00   53.  1008.    5 NAD-SFC NoSubs
10  5 28 148 13  180.4  0.344  1.752  0.005 1073.  485.    -20.3  0.2930  0.52  0.19  2.60  351.0  15.0  291.0  2.0   0  0.00   45.  1007.    4 NAD-SFC NoSubs
10  5 28 148 14  171.8  0.481  1.831  0.005 1286.  800.    -58.1  0.2930  0.52  0.19  4.10  343.0  15.0  292.0  2.0   0  0.00   41.  1007.    3 NAD-SFC NoSubs
10  5 28 148 15  149.5  0.522  1.797  0.006 1396.  903.    -85.2  0.2930  0.52  0.19  4.60  338.0  15.0  292.6  2.0   0  0.00   40.  1006.    3 NAD-SFC NoSubs
10  5 28 148 16  117.5  0.561  1.683  0.006 1458. 1008.   -134.9  0.2930  0.52  0.20  5.10  338.0  15.0  292.8  2.0   0  0.00   39.  1006.    3 NAD-SFC NoSubs
10  5 28 148 17   77.5  0.503  1.479  0.006 1498.  861.   -147.6  0.2930  0.52  0.22  4.60  338.0  15.0  292.9  2.0   0  0.00   39.  1006.    3 NAD-SFC NoSubs
10  5 28 148 18   32.1  0.293  1.106  0.006 1513.  422.    -70.4  0.2720  0.52  0.30  2.60  321.0  15.0  292.5  2.0   0  0.00   48.  1006.    3 NAD-SFC NoSubs
10  5 28 148 19  -18.1  0.300 -9.000 -9.000 -999.  395.    134.1  0.2720  0.52  0.53  3.10  312.0  15.0  291.9  2.0   0  0.00   48.  1006.    3 NAD-SFC NoSubs
10  5 28 148 20  -31.6  0.296 -9.000 -9.000 -999.  387.     73.9  0.2720  0.52  1.00  3.10  314.0  15.0  291.0  2.0   0  0.00   49.  1006.    2 NAD-SFC NoSubs
10  5 28 148 21  -16.0  0.195 -9.000 -9.000 -999.  212.     41.6  0.2720  0.52  1.00  2.10  309.0  15.0  289.9  2.0   0  0.00   50.  1006.    2 NAD-SFC NoSubs
10  5 28 148 22   -7.3  0.129 -9.000 -9.000 -999.  112.     26.4  0.2160  0.52  1.00  1.50  283.0  15.0  288.9  2.0   0  0.00   52.  1006.    2 NAD-SFC NoSubs
10  5 28 148 23  -13.8  0.178 -9.000 -9.000 -999.  180.     36.5  0.1950  0.52  1.00  2.10  232.0  15.0  287.8  2.0   0  0.00   55.  1006.    2 NAD-SFC NoSubs
10  5 28 148 24  -21.4  0.223 -9.000 -9.000 -999.  252.     46.2  0.1900  0.52  1.00  2.60  206.0  15.0  286.5  2.0   0  0.00   58.  1005.    2 NAD-SFC NoSubs
10  5 29 149  1  -21.4  0.223 -9.000 -9.000 -999.  252.     46.2  0.1900  0.52  1.00  2.60  196.0  15.0  285.8  2.0   0  0.00   59.  1005.    2 NAD-SFC NoSubs
10  5 29 149  2   -6.9  0.125 -9.000 -9.000 -999.  110.     25.2  0.1900  0.52  1.00  1.50  200.0  15.0  284.9  2.0   0  0.00   62.  1005.    2 NAD-SFC NoSubs
10  5 29 149  3   -3.6  0.096 -9.000 -9.000 -999.   71.     22.1  0.1950  0.52  1.00  1.00  220.0  15.0  284.1  2.0   0  0.00   66.  1005.    2 NAD-SFC NoSubs
10  5 29 149  4   -7.0  0.126 -9.000 -9.000 -999.  107.     25.3  0.1950  0.52  1.00  1.50  236.0  15.0  283.4  2.0   0  0.00   69.  1006.    2 NAD-SFC NoSubs
10  5 29 149  5  -20.8  0.218 -9.000 -9.000 -999.  244.     44.6  0.1750  0.52  1.00  2.60  264.0  15.0  282.9  2.0   0  0.00   71.  1006.    2 NAD-SFC NoSubs
10  5 29 149  6   -7.2  0.179 -9.000 -9.000 -999.  182.     72.1  0.1750  0.52  0.46  2.10  260.0  15.0  282.9  2.0   0  0.00   72.  1006.    2 NAD-SFC NoSubs
10  5 29 149  7   37.7  0.197  0.485  0.011  109.  210.    -18.3  0.2720  0.52  0.28  1.50  305.0  15.0  285.4  2.0   0  0.00   60.  1007.    2 NAD-SFC NoSubs
10  5 29 149  8   83.3  0.103  0.858  0.010  272.   83.     -1.2  0.2160  0.52  0.22  0.50  280.0  15.0  287.8  2.0   0  0.00   52.  1007.    2 NAD-SFC NoSubs
10  5 29 149  9  122.9  0.165  1.109  0.009  399.  160.     -3.3  0.2160  0.52  0.20  1.00  274.0  15.0  289.9  2.0   0  0.00   44.  1007.    2 NAD-SFC NoSubs
10  5 29 149 10  154.1  0.162  1.323  0.009  540.  157.     -2.5  0.1750  0.52  0.19  1.00  267.0  15.0  291.9  2.0   0  0.00   39.  1006.    2 NAD-SFC NoSubs
10  5 29 149 11  175.5  0.172  1.482  0.008  666.  171.     -2.6  0.2160  0.52  0.19  1.00  294.0  15.0  293.8  2.0   0  0.00   36.  1006.    2 NAD-SFC NoSubs
10  5 29 149 12  185.7  0.182  1.602  0.007  794.  187.     -2.9  0.2720  0.52  0.19  1.00  306.0  15.0  295.4  2.0   0  0.00   32.  1005.    2 NAD-SFC NoSubs
10  5 29 149 13  185.3  0.235  1.672  0.006  904.  274.     -6.3  0.2720  0.52  0.19  1.50  319.0  15.0  296.6  2.0   0  0.00   29.  1004.    2 NAD-SFC NoSubs
10  5 29 149 14  174.1  0.296  1.699  0.006 1009.  386.    -13.3  0.2930  0.52  0.19  2.10  334.0  15.0  297.5  2.0   0  0.00   28.  1003.    2 NAD-SFC NoSubs
10  5 29 149 15  151.6  0.339  1.679  0.006 1118.  473.    -22.9  0.2930  0.52  0.19  2.60  344.0  15.0  298.0  2.0   0  0.00   28.  1002.    2 NAD-SFC NoSubs
10  5 29 149 16  119.4  0.423  1.586  0.005 1195.  660.    -56.7  0.2930  0.52  0.20  3.60  352.0  15.0  298.2  2.0   0  0.00   29.  1002.    2 NAD-SFC NoSubs
10  5 29 149 17   79.1  0.411  1.401  0.005 1244.  633.    -78.4  0.2930  0.52  0.22  3.60  353.0  15.0  298.0  2.0   0  0.00   31.  1001.    2 NAD-SFC NoSubs
10  5 29 149 18   33.2  0.253  1.054  0.005 1261.  324.    -43.8  0.2930  0.52  0.29  2.10  351.0  15.0  297.5  2.0   0  0.00   40.  1002.    2 NAD-SFC NoSubs
10  5 29 149 19   -6.2  0.142 -9.000 -9.000 -999.  137.     41.4  0.2930  0.52  0.52  1.50  338.0  15.0  296.9  2.0   0  0.00   40.  1002.    2 NAD-SFC NoSubs
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10  5 29 149 20   -3.9  0.100 -9.000 -9.000 -999.   77.     23.3  0.2720  0.52  1.00  1.00 306.0  15.0 295.5  2.0   0  0.00  43.  1002.   2 NAD-SFC NoSubs
10  5 29 149 21   -1.4  0.079 -9.000 -9.000 -999.   53.     30.8  0.1750  0.52  1.00  0.50 266.0  15.0 294.0  2.0   0  0.00  48.  1002.   2 NAD-SFC NoSubs
10  5 29 149 22   -3.5  0.095 -9.000 -9.000 -999.   70.     22.0  0.1950  0.52  1.00  1.00 239.0  15.0 292.5  2.0   0  0.00  53.  1002.   2 NAD-SFC NoSubs
10  5 29 149 23   -6.6  0.122 -9.000 -9.000 -999.  103.     24.8  0.1750  0.52  1.00  1.50 245.0  15.0 291.2  2.0   0  0.00  55.  1002.   2 NAD-SFC NoSubs
10  5 29 149 24   -7.2  0.129 -9.000 -9.000 -999.  111.     26.5  0.2160  0.52  1.00  1.50 277.0  15.0 290.5  2.0   0  0.00  55.  1002.   2 NAD-SFC NoSubs
10  5 30 150  1   -3.9  0.101 -9.000 -9.000 -999.   77.     23.3  0.2720  0.52  1.00  1.00 316.0  15.0 289.6  2.0   0  0.00  57.  1002.   2 NAD-SFC NoSubs
10  5 30 150  2   -1.4  0.079 -9.000 -9.000 -999.   54.     31.0  0.1750  0.52  1.00  0.50 268.0  15.0 288.6  2.0   0  0.00  60.  1002.   2 NAD-SFC NoSubs
10  5 30 150  3   -6.7  0.123 -9.000 -9.000 -999.  103.     24.7  0.1750  0.52  1.00  1.50 240.0  15.0 287.8  2.0   0  0.00  63.  1002.   2 NAD-SFC NoSubs
10  5 30 150  4  -13.2  0.173 -9.000 -9.000 -999.  173.     35.0  0.1750  0.52  1.00  2.10 249.0  15.0 287.1  2.0   0  0.00  66.  1002.   2 NAD-SFC NoSubs
10  5 30 150  5  -28.4  0.263 -9.000 -9.000 -999.  324.     57.3  0.1750  0.52  1.00  3.10 261.0  15.0 286.5  2.0   0  0.00  68.  1003.   2 NAD-SFC NoSubs
10  5 30 150  6   -8.0  0.225 -9.000 -9.000 -999.  256.    126.8  0.1750  0.52  0.46  2.60 263.0  15.0 286.1  2.0   0  0.00  69.  1003.   2 NAD-SFC NoSubs
10  5 30 150  7   38.5  0.252  0.499  0.009  115.  304.    -37.3  0.2720  0.52  0.27  2.10 305.0  15.0 288.1  2.0   0  0.00  61.  1003.   2 NAD-SFC NoSubs
10  5 30 150  8   84.1  0.204  0.813  0.010  228.  222.     -9.1  0.2160  0.52  0.22  1.50 281.0  15.0 290.2  2.0   0  0.00  53.  1003.   2 NAD-SFC NoSubs
10  5 30 150  9  123.9  0.165  1.066  0.008  349.  161.     -3.2  0.2160  0.52  0.20  1.00 272.0  15.0 293.0  2.0   0  0.00  44.  1003.   2 NAD-SFC NoSubs
10  5 30 150 10  155.5  0.112  1.303  0.007  510.   90.     -1.0  0.2160  0.52  0.19  0.50 281.0  15.0 295.5  2.0   0  0.00  37.  1002.   2 NAD-SFC NoSubs
10  5 30 150 11  177.1 -9.000 -9.000 -9.000  671. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 297.5  2.0   0  0.00  32.  1002.   2 NAD-SFC NoSubs
10  5 30 150 12  187.5  0.123  1.638  0.008  839.  104.     -1.0  0.2930  0.52  0.19  0.50 346.0  15.0 299.4  2.0   0  0.00  28.  1001.   2 NAD-SFC NoSubs
10  5 30 150 13  187.2  0.186  1.723  0.007  977.  192.     -3.0  0.2930  0.52  0.19  1.00 356.0  15.0 300.6  2.0   0  0.00  26.  1000.   2 NAD-SFC NoSubs
10  5 30 150 14  176.0  0.296  1.739  0.006 1067.  387.    -13.2  0.2940  0.52  0.19  2.10   5.0  15.0 301.4  2.0   0  0.00  26.   999.   2 NAD-SFC NoSubs
10  5 30 150 15  153.5  0.385  1.698  0.006 1139.  574.    -33.2  0.2940  0.52  0.19  3.10   6.0  15.0 301.8  2.0   0  0.00  26.   999.   2 NAD-SFC NoSubs
10  5 30 150 16  121.6  0.424  1.597  0.005 1195.  662.    -55.8  0.2940  0.52  0.20  3.60   7.0  15.0 302.4  2.0   0  0.00  27.   998.   2 NAD-SFC NoSubs
10  5 30 150 17   81.1  0.366  1.408  0.005 1228.  535.    -54.0  0.2940  0.52  0.22  3.10   6.0  15.0 301.8  2.0   0  0.00  36.   998.   2 NAD-SFC NoSubs
10  5 30 150 18   35.1  0.347  1.069  0.005 1240.  490.   -105.7  0.2940  0.52  0.29  3.10   6.0  15.0 300.9  2.0   0  0.00  43.   999.   2 NAD-SFC NoSubs
10  5 30 150 19  -15.5  0.308 -9.000 -9.000 -999.  411.    167.7  0.2930  0.52  0.52  3.10 355.0  15.0 300.1  2.0   0  0.00  44.   999.   2 NAD-SFC NoSubs
10  5 30 150 20  -31.3  0.303 -9.000 -9.000 -999.  401.     79.4  0.2930  0.52  1.00  3.10 332.0  15.0 298.8  2.0   0  0.00  46.   999.   2 NAD-SFC NoSubs
10  5 30 150 21  -41.2  0.397 -9.000 -9.000 -999.  600.    135.5  0.2720  0.52  1.00  4.10 312.0  15.0 297.2  2.0   0  0.00  49.  1000.   2 NAD-SFC NoSubs
10  5 30 150 22  -41.5  0.397 -9.000 -9.000 -999.  600.    134.6  0.2720  0.52  1.00  4.10 300.0  15.0 295.4  2.0   0  0.00  51.  1000.   2 NAD-SFC NoSubs
10  5 30 150 23  -36.4  0.347 -9.000 -9.000 -999.  492.    102.2  0.2720  0.52  1.00  3.60 308.0  15.0 294.1  2.0   0  0.00  52.  1000.   2 NAD-SFC NoSubs
10  5 30 150 24  -42.8  0.406 -9.000 -9.000 -999.  620.    139.1  0.2930  0.52  1.00  4.10 333.0  15.0 292.4  2.0   0  0.00  60.  1000.   2 NAD-SFC NoSubs
10  5 31 151  1  -32.1  0.303 -9.000 -9.000 -999.  407.     77.3  0.2930  0.52  1.00  3.10 353.0  15.0 291.2  2.0   0  0.00  67.  1000.   2 NAD-SFC NoSubs
10  5 31 151  2  -25.8  0.252 -9.000 -9.000 -999.  304.     55.1  0.2940  0.52  1.00  2.60  22.0  15.0 290.8  2.0   0  0.00  69.  1001.   2 NAD-SFC NoSubs
10  5 31 151  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00   0.0  15.0 290.2  2.0   0  0.00  72.  1001.   2 NAD-SFC NoSubs
10  5 31 151  4   -1.7  0.084 -9.000 -9.000 -999.   59.     32.1  0.2930  0.52  1.00  0.50 331.0  15.0 289.8  2.0   0  0.00  74.  1001.   2 NAD-SFC NoSubs
10  5 31 151  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00   0.0  15.0 289.2  2.0   0  0.00  76.  1001.   2 NAD-SFC NoSubs
10  5 31 151  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.46  0.00   0.0  15.0 289.0  2.0   0  0.00  78.  1002.   2 NAD-SFC NoSubs
10  5 31 151  7   39.3 -9.000 -9.000 -9.000  175. -999. -99999.0  0.2235  0.52  0.27  0.00   0.0  15.0 290.2  2.0   0  0.00  72.  1002.   2 NAD-SFC NoSubs
10  5 31 151  8   84.8 -9.000 -9.000 -9.000  275. -999. -99999.0  0.2235  0.52  0.22  0.00   0.0  15.0 292.1  2.0   0  0.00  64.  1002.   2 NAD-SFC NoSubs
10  5 31 151  9  124.4 -9.000 -9.000 -9.000  367. -999. -99999.0  0.2235  0.52  0.20  0.00   0.0  15.0 293.9  2.0   0  0.00  57.  1002.   2 NAD-SFC NoSubs
10  5 31 151 10  155.6 -9.000 -9.000 -9.000  514. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 295.5  2.0   0  0.00  50.  1002.   2 NAD-SFC NoSubs
10  5 31 151 11  176.9 -9.000 -9.000 -9.000  660. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 296.8  2.0   0  0.00  46.  1001.   2 NAD-SFC NoSubs
10  5 31 151 12  187.0  0.121  1.660  0.007  875.  101.     -1.0  0.2720  0.52  0.19  0.50 309.0  15.0 297.9  2.0   0  0.00  43.  1001.   2 NAD-SFC NoSubs
10  5 31 151 13  186.5  0.239  1.746  0.008 1020.  281.     -6.6  0.2930  0.52  0.19  1.50 341.0  15.0 298.8  2.0   0  0.00  40.  1001.   2 NAD-SFC NoSubs
10  5 31 151 14  175.2  0.344  1.761  0.007 1114.  484.    -20.7  0.2940  0.52  0.19  2.60   5.0  15.0 299.2  2.0   0  0.00  39.  1000.   2 NAD-SFC NoSubs
10  5 31 151 15  152.5 -9.000 -9.000 -9.000 1188. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 298.9  2.0   0  0.00  42.  1000.   2 NAD-SFC NoSubs
10  5 31 151 16  120.0  0.424  1.610  0.007 1243.  662.    -56.5  0.2940  0.52  0.20  3.60  13.0  15.0 298.2  2.0   0  0.00  51.  1000.   2 NAD-SFC NoSubs
10  5 31 151 17   79.8  0.320  1.418  0.007 1277.  441.    -36.6  0.2940  0.52  0.22  2.60   2.0  15.0 298.0  2.0   0  0.00  57.  1001.   2 NAD-SFC NoSubs
10  5 31 151 18   35.2  0.300  1.084  0.007 1291.  395.    -68.5  0.2930  0.52  0.29  2.60 344.0  15.0 297.5  2.0   0  0.00  60.  1001.   3 NAD-SFC NoSubs
10  5 31 151 19  -17.2  0.360 -9.000 -9.000 -999.  519.    243.0  0.2930  0.52  0.51  3.60 334.0  15.0 296.5  2.0   0  0.00  64.  1001.   3 NAD-SFC NoSubs
10  5 31 151 20  -36.2  0.355 -9.000 -9.000 -999.  507.    110.0  0.2930  0.52  1.00  3.60 334.0  15.0 294.9  2.0   0  0.00  71.  1001.   3 NAD-SFC NoSubs
10  5 31 151 21  -36.3  0.355 -9.000 -9.000 -999.  507.    109.6  0.2930  0.52  1.00  3.60 331.0  15.0 293.9  2.0   0  0.00  76.  1002.   3 NAD-SFC NoSubs
10  5 31 151 22  -30.0  0.304 -9.000 -9.000 -999.  403.     83.1  0.2930  0.52  1.00  3.10 335.0  15.0 293.1  2.0   0  0.00  79.  1002.   4 NAD-SFC NoSubs
10  5 31 151 23  -25.0  0.252 -9.000 -9.000 -999.  305.     57.3  0.2930  0.52  1.00  2.60 337.0  15.0 292.6  2.0   0  0.00  80.  1002.   4 NAD-SFC NoSubs
10  5 31 151 24  -25.0  0.252 -9.000 -9.000 -999.  304.     57.2  0.2930  0.52  1.00  2.60 337.0  15.0 292.2  2.0   0  0.00  81.  1002.   4 NAD-SFC NoSubs
10  6  1 152  1  -30.2  0.303 -9.000 -9.000 -999.  401.     82.7  0.2930  0.52  1.00  3.10 344.0  15.0 291.6  2.0   0  0.00  84.  1003.   4 NAD-SFC NoSubs
10  6  1 152  2  -28.9  0.304 -9.000 -9.000 -999.  402.     86.9  0.2930  0.52  1.00  3.10 345.0  15.0 290.6  2.0   0  0.00  86.  1003.   5 NAD-SFC NoSubs
10  6  1 152  3  -26.6  0.298 -9.000 -9.000 -999.  390.     88.7  0.2720  0.52  1.00  3.10 328.0  15.0 289.8  2.0   0  0.00  87.  1003.   6 NAD-SFC NoSubs
10  6  1 152  4  -20.5  0.248 -9.000 -9.000 -999.  297.     66.7  0.2720  0.52  1.00  2.60 327.0  15.0 289.2  2.0   0  0.00  87.  1004.   7 NAD-SFC NoSubs
10  6  1 152  5  -20.9  0.253 -9.000 -9.000 -999.  306.     69.6  0.2930  0.52  1.00  2.60 335.0  15.0 288.8  2.0   0  0.00  87.  1004.   7 NAD-SFC NoSubs
10  6  1 152  6   -0.4  0.217 -9.000 -9.000 -999.  244.   2067.6  0.2930  0.52  0.46  2.10 343.0  15.0 288.8  2.0   0  0.00  85.  1005.   6 NAD-SFC NoSubs
10  6  1 152  7   40.1  0.257  0.687  0.006  290.  313.    -38.1  0.2930  0.52  0.27  2.10 352.0  15.0 289.2  2.0   0  0.00  77.  1005.   5 NAD-SFC NoSubs
10  6  1 152  8   84.4  0.218  1.021  0.007  453.  245.    -11.0  0.2930  0.52  0.22  1.50 343.0  15.0 289.8  2.0   0  0.00  73.  1005.   4 NAD-SFC NoSubs
10  6  1 152  9  123.9 -9.000 -9.000 -9.000  604. -999. -99999.0  0.2235  0.52  0.20  0.00   0.0  15.0 291.2  2.0   0  0.00  67.  1005.   3 NAD-SFC NoSubs
10  6  1 152 10  154.9 -9.000 -9.000 -9.000  751. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 293.0  2.0   0  0.00  62.  1004.   3 NAD-SFC NoSubs
10  6  1 152 11  176.0 -9.000 -9.000 -9.000  889. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 294.5  2.0   0  0.00  57.  1003.   3 NAD-SFC NoSubs
10  6  1 152 12  186.1 -9.000 -9.000 -9.000 1020. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 295.9  2.0   0  0.00  51.  1002.   3 NAD-SFC NoSubs
10  6  1 152 13  185.7  0.121  1.811  0.007 1145.  101.     -1.0  0.2720  0.52  0.19  0.50 326.0  15.0 297.1  2.0   0  0.00  47.  1002.   3 NAD-SFC NoSubs
10  6  1 152 14  174.8  0.296  1.829  0.008 1251.  386.    -13.2  0.2930  0.52  0.19  2.10 340.0  15.0 298.1  2.0   0  0.00  44.  1001.   3 NAD-SFC NoSubs
10  6  1 152 15  152.7  0.431  1.788  0.008 1338.  679.    -46.8  0.2930  0.52  0.19  3.60 355.0  15.0 298.6  2.0   0  0.00  43.  1000.   3 NAD-SFC NoSubs
10  6  1 152 16  120.9  0.515  1.673  0.008 1384.  887.   -100.9  0.2930  0.52  0.20  4.60 351.0  15.0 298.8  2.0   0  0.00  43.  1000.   3 NAD-SFC NoSubs
10  6  1 152 17   81.1  0.505  1.475  0.008 1413.  861.   -141.3  0.2930  0.52  0.22  4.60 348.0  15.0 298.5  2.0   0  0.00  45.  1000.   3 NAD-SFC NoSubs
10  6  1 152 18   35.7  0.393  1.125  0.008 1425.  602.   -152.0  0.2930  0.52  0.29  3.60 351.0  15.0 297.8  2.0   0  0.00  55.  1000.   3 NAD-SFC NoSubs
10  6  1 152 19  -19.1  0.413 -9.000 -9.000 -999.  636.    328.9  0.2930  0.52  0.51  4.10 338.0  15.0 296.1  2.0   0  0.00  61.  1001.   3 NAD-SFC NoSubs
10  6  1 152 20  -41.5  0.406 -9.000 -9.000 -999.  621.    143.9  0.2930  0.52  1.00  4.10 337.0  15.0 294.2  2.0   0  0.00  67.  1001.   3 NAD-SFC NoSubs
10  6  1 152 21  -41.7  0.406 -9.000 -9.000 -999.  621.    143.3  0.2930  0.52  1.00  4.10 340.0  15.0 293.2  2.0   0  0.00  70.  1001.   3 NAD-SFC NoSubs
10  6  1 152 22  -35.7  0.347 -9.000 -9.000 -999.  493.    104.4  0.2720  0.52  1.00  3.60 326.0  15.0 292.5  2.0   0  0.00  72.  1001.   3 NAD-SFC NoSubs
10  6  1 152 23  -31.3  0.303 -9.000 -9.000 -999.  402.     79.6  0.2930  0.52  1.00  3.10 334.0  15.0 292.0  2.0   0  0.00  73.  1002.   3 NAD-SFC NoSubs
10  6  1 152 24  -35.9  0.347 -9.000 -9.000 -999.  490.    103.9  0.2720  0.52  1.00  3.60 324.0  15.0 291.2  2.0   0  0.00  76.  1002.   3 NAD-SFC NoSubs
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10  6  2 153  1  -24.6  0.246 -9.000 -9.000 -999.  298.     54.2  0.2720  0.52  1.00  2.60  321.0  15.0  290.5  2.0  0  0.00  78.  1002.  3 NAD-SFC NoSubs
10  6  2 153  2   -7.9  0.137 -9.000 -9.000 -999.  128.     29.0  0.2720  0.52  1.00  1.50  328.0  15.0  290.1  2.0  0  0.00  78.  1002.  3 NAD-SFC NoSubs
10  6  2 153  3   -4.0  0.102 -9.000 -9.000 -999.   78.     23.7  0.2930  0.52  1.00  1.00  360.0  15.0  289.6  2.0  0  0.00  80.  1002.  3 NAD-SFC NoSubs
10  6  2 153  4   -1.5  0.082 -9.000 -9.000 -999.   56.     31.5  0.2470  0.52  1.00  0.50   52.0  15.0  289.2  2.0  0  0.00  81.  1002.  3 NAD-SFC NoSubs
10  6  2 153  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  288.8  2.0  0  0.00  83.  1003.  3 NAD-SFC NoSubs
10  6  2 153  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.46  0.00    0.0  15.0  288.6  2.0  0  0.00  84.  1003.  3 NAD-SFC NoSubs
10  6  2 153  7   40.6  0.154  0.686  0.006  284.  145.     -8.0  0.2940  0.52  0.27  1.00   13.0  15.0  289.8  2.0  0  0.00  77.  1003.  3 NAD-SFC NoSubs
10  6  2 153  8   85.5 -9.000 -9.000 -9.000  453. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  291.1  2.0  0  0.00  70.  1003.  3 NAD-SFC NoSubs
10  6  2 153  9  124.5 -9.000 -9.000 -9.000  645. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  292.6  2.0  0  0.00  64.  1003.  3 NAD-SFC NoSubs
10  6  2 153 10  155.4 -9.000 -9.000 -9.000  776. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  294.4  2.0  0  0.00  58.  1003.  2 NAD-SFC NoSubs
10  6  2 153 11  176.8 -9.000 -9.000 -9.000  899. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  295.9  2.0  0  0.00  53.  1002.  2 NAD-SFC NoSubs
10  6  2 153 12  187.0  0.123  1.739  0.010 1006.  104.     -1.0  0.2930  0.52  0.19  0.50  330.0  15.0  297.2  2.0  0  0.00  50.  1001.  2 NAD-SFC NoSubs
10  6  2 153 13  186.6  0.185  1.785  0.011 1091.  192.     -3.0  0.2930  0.52  0.19  1.00  338.0  15.0  298.2  2.0  0  0.00  47.  1001.  2 NAD-SFC NoSubs
10  6  2 153 14  175.6  0.296  1.789  0.011 1165.  387.    -13.2  0.2940  0.52  0.19  2.10    1.0  15.0  299.2  2.0  0  0.00  45.  1000.  2 NAD-SFC NoSubs
10  6  2 153 15  153.3 -9.000 -9.000 -9.000 1226. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  299.8  2.0  0  0.00  44.  1000.  2 NAD-SFC NoSubs
10  6  2 153 16  121.6  0.470  1.630  0.012 1272.  772.    -75.9  0.2940  0.52  0.20  4.10   12.0  15.0  299.8  2.0  0  0.00  45.  1000.  3 NAD-SFC NoSubs
10  6  2 153 17   81.9  0.412  1.440  0.012 1302.  638.    -76.3  0.2940  0.52  0.22  3.60    7.0  15.0  299.4  2.0  0  0.00  51.  1000.  3 NAD-SFC NoSubs
10  6  2 153 18   36.7  0.347  1.105  0.012 1314.  494.   -102.0  0.2940  0.52  0.29  3.10   14.0  15.0  299.0  2.0  0  0.00  59.  1000.  3 NAD-SFC NoSubs
10  6  2 153 19    0.3 -9.000 -9.000 -9.000  999. -999. -99999.0  0.2235  0.52  0.51  0.00    0.0  15.0  298.1  2.0  0  0.00  61.  1001.  3 NAD-SFC NoSubs
10  6  2 153 20  -36.0  0.355 -9.000 -9.000 -999.  508.    110.9  0.2940  0.52  1.00  3.60    4.0  15.0  296.8  2.0  0  0.00  65.  1001.  3 NAD-SFC NoSubs
10  6  2 153 21  -29.8  0.304 -9.000 -9.000 -999.  403.     83.9  0.2930  0.52  1.00  3.10  355.0  15.0  295.5  2.0  0  0.00  70.  1001.  4 NAD-SFC NoSubs
10  6  2 153 22  -24.9  0.252 -9.000 -9.000 -999.  305.     57.8  0.2940  0.52  1.00  2.60    1.0  15.0  294.6  2.0  0  0.00  72.  1002.  4 NAD-SFC NoSubs
10  6  2 153 23   -8.0  0.140 -9.000 -9.000 -999.  132.     30.6  0.2940  0.52  1.00  1.50    5.0  15.0  293.9  2.0  0  0.00  74.  1002.  4 NAD-SFC NoSubs
10  6  2 153 24   -3.8  0.101 -9.000 -9.000 -999.   77.     23.7  0.2930  0.52  1.00  1.00  354.0  15.0  293.2  2.0  0  0.00  75.  1002.  4 NAD-SFC NoSubs
10  6  3 154  1   -8.1  0.140 -9.000 -9.000 -999.  125.     30.0  0.2930  0.52  1.00  1.50  338.0  15.0  292.8  2.0  0  0.00  77.  1002.  3 NAD-SFC NoSubs
10  6  3 154  2   -8.1  0.140 -9.000 -9.000 -999.  125.     29.9  0.2930  0.52  1.00  1.50  347.0  15.0  292.2  2.0  0  0.00  80.  1002.  3 NAD-SFC NoSubs
10  6  3 154  3  -16.4  0.200 -9.000 -9.000 -999.  215.     43.8  0.2940  0.52  1.00  2.10   13.0  15.0  291.8  2.0  0  0.00  82.  1002.  3 NAD-SFC NoSubs
10  6  3 154  4   -8.2  0.140 -9.000 -9.000 -999.  126.     29.9  0.2940  0.52  1.00  1.50   22.0  15.0  291.4  2.0  0  0.00  84.  1002.  3 NAD-SFC NoSubs
10  6  3 154  5   -7.5  0.133 -9.000 -9.000 -999.  117.     28.1  0.2470  0.52  1.00  1.50   35.0  15.0  291.1  2.0  0  0.00  85.  1002.  3 NAD-SFC NoSubs
10  6  3 154  6   -2.4  0.141 -9.000 -9.000 -999.  127.    104.6  0.2470  0.52  0.45  1.50   44.0  15.0  290.8  2.0  0  0.00  87.  1003.  3 NAD-SFC NoSubs
10  6  3 154  7   41.1  0.304  0.690  0.006  285.  402.    -61.0  0.2940  0.52  0.27  2.60   13.0  15.0  291.1  2.0  0  0.00  83.  1003.  3 NAD-SFC NoSubs
10  6  3 154  8   86.0 -9.000 -9.000 -9.000  456. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  292.4  2.0  0  0.00  75.  1003.  3 NAD-SFC NoSubs
10  6  3 154  9  124.9 -9.000 -9.000 -9.000  633. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  293.8  2.0  0  0.00  69.  1003.  3 NAD-SFC NoSubs
10  6  3 154 10  155.8 -9.000 -9.000 -9.000  772. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  295.2  2.0  0  0.00  63.  1002.  3 NAD-SFC NoSubs
10  6  3 154 11  177.0 -9.000 -9.000 -9.000  901. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  296.8  2.0  0  0.00  58.  1002.  3 NAD-SFC NoSubs
10  6  3 154 12  187.2 -9.000 -9.000 -9.000 1008. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  298.1  2.0  0  0.00  54.  1001.  3 NAD-SFC NoSubs
10  6  3 154 13  186.9  0.121  1.785  0.010 1088.  101.     -1.0  0.2720  0.52  0.19  0.50  328.0  15.0  299.2  2.0  0  0.00  51.  1000.  3 NAD-SFC NoSubs
10  6  3 154 14  176.0  0.238  1.788  0.010 1159.  278.     -6.8  0.2930  0.52  0.19  1.50  355.0  15.0  300.2  2.0  0  0.00  48.   999.  3 NAD-SFC NoSubs
10  6  3 154 15  154.1  0.340  1.738  0.010 1217.  475.    -22.7  0.2940  0.52  0.19  2.60    5.0  15.0  300.8  2.0  0  0.00  47.   999.  3 NAD-SFC NoSubs
10  6  3 154 16  122.4 -9.000 -9.000 -9.000 1261. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  300.8  2.0  0  0.00  48.   998.  3 NAD-SFC NoSubs
10  6  3 154 17   82.7  0.459  1.441  0.010 1289.  746.   -103.9  0.2940  0.52  0.22  4.10    6.0  15.0  300.6  2.0  0  0.00  51.   998.  3 NAD-SFC NoSubs
10  6  3 154 18   37.7  0.348  1.112  0.010 1301.  501.    -99.6  0.2940  0.52  0.29  3.10   11.0  15.0  300.4  2.0  0  0.00  60.   999.  3 NAD-SFC NoSubs
10  6  3 154 19   -0.9 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.50  0.00    0.0  15.0  299.4  2.0  0  0.00  64.   999.  3 NAD-SFC NoSubs
10  6  3 154 20  -39.5  0.406 -9.000 -9.000 -999.  622.    151.4  0.2930  0.52  1.00  4.10  349.0  15.0  297.8  2.0  0  0.00  70.  1000.  4 NAD-SFC NoSubs
10  6  3 154 21  -34.7  0.355 -9.000 -9.000 -999.  509.    114.9  0.2930  0.52  1.00  3.60  346.0  15.0  296.1  2.0  0  0.00  77.  1000.  4 NAD-SFC NoSubs
10  6  3 154 22  -29.8  0.304 -9.000 -9.000 -999.  403.     83.7  0.2930  0.52  1.00  3.10  345.0  15.0  295.0  2.0  0  0.00  79.  1001.  4 NAD-SFC NoSubs
10  6  3 154 23  -24.0  0.247 -9.000 -9.000 -999.  295.     55.8  0.2720  0.52  1.00  2.60  328.0  15.0  294.2  2.0  0  0.00  80.  1001.  4 NAD-SFC NoSubs
10  6  3 154 24  -15.4  0.196 -9.000 -9.000 -999.  209.     43.5  0.2720  0.52  1.00  2.10  327.0  15.0  293.8  2.0  0  0.00  80.  1001.  4 NAD-SFC NoSubs
10  6  4 155  1   -7.7  0.137 -9.000 -9.000 -999.  122.     29.7  0.2720  0.52  1.00  1.50  329.0  15.0  293.2  2.0  0  0.00  82.  1001.  4 NAD-SFC NoSubs
10  6  4 155  2   -3.8  0.101 -9.000 -9.000 -999.   77.     23.7  0.2930  0.52  1.00  1.00  339.0  15.0  292.8  2.0  0  0.00  84.  1002.  4 NAD-SFC NoSubs
10  6  4 155  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  292.2  2.0  0  0.00  85.  1002.  3 NAD-SFC NoSubs
10  6  4 155  4   -1.5  0.081 -9.000 -9.000 -999.   56.     31.4  0.2470  0.52  1.00  0.50   47.0  15.0  291.6  2.0  0  0.00  87.  1002.  3 NAD-SFC NoSubs
10  6  4 155  5   -1.5  0.080 -9.000 -9.000 -999.   54.     31.1  0.2090  0.52  1.00  0.50   60.0  15.0  291.2  2.0  0  0.00  88.  1002.  3 NAD-SFC NoSubs
10  6  4 155  6   -0.3  0.045 -9.000 -9.000 -999.   23.     24.6  0.2470  0.52  0.45  0.50   49.0  15.0  291.0  2.0  0  0.00  89.  1003.  3 NAD-SFC NoSubs
10  6  4 155  7   41.5  0.154  0.689  0.007  282.  145.     -7.9  0.2940  0.52  0.27  1.00   16.0  15.0  292.0  2.0  0  0.00  79.  1003.  3 NAD-SFC NoSubs
10  6  4 155  8   86.4 -9.000 -9.000 -9.000  428. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  293.5  2.0  0  0.00  71.  1003.  3 NAD-SFC NoSubs
10  6  4 155  9  125.5 -9.000 -9.000 -9.000  580. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  295.1  2.0  0  0.00  65.  1003.  3 NAD-SFC NoSubs
10  6  4 155 10  156.4 -9.000 -9.000 -9.000  726. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  296.8  2.0  0  0.00  59.  1002.  3 NAD-SFC NoSubs
10  6  4 155 11  177.8 -9.000 -9.000 -9.000  862. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  298.5  2.0  0  0.00  54.  1002.  3 NAD-SFC NoSubs
10  6  4 155 12  188.2 -9.000 -9.000 -9.000  985. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  299.8  2.0  0  0.00  50.  1001.  2 NAD-SFC NoSubs
10  6  4 155 13  188.1  0.123  1.784  0.008 1078.  104.     -1.0  0.2930  0.52  0.19  0.50  330.0  15.0  301.0  2.0  0  0.00  48.  1000.  2 NAD-SFC NoSubs
10  6  4 155 14  177.2  0.238  1.792  0.008 1159.  278.     -6.8  0.2930  0.52  0.19  1.50  355.0  15.0  302.0  2.0  0  0.00  45.   999.  2 NAD-SFC NoSubs
10  6  4 155 15  155.1  0.340  1.746  0.008 1225.  476.    -22.5  0.2940  0.52  0.19  2.60    2.0  15.0  302.6  2.0  0  0.00  45.   999.  2 NAD-SFC NoSubs
10  6  4 155 16  123.7  0.470  1.641  0.008 1275.  773.    -74.7  0.2930  0.52  0.20  4.10  359.0  15.0  302.9  2.0  0  0.00  46.   999.  3 NAD-SFC NoSubs
10  6  4 155 17   84.0  0.413  1.455  0.008 1308.  640.    -74.7  0.2940  0.52  0.22  3.60    2.0  15.0  302.6  2.0  0  0.00  52.   999.  3 NAD-SFC NoSubs
10  6  4 155 18   38.8  0.395  1.129  0.008 1321.  596.   -141.5  0.2930  0.52  0.29  3.60  353.0  15.0  302.0  2.0  0  0.00  60.   999.  3 NAD-SFC NoSubs
10  6  4 155 19  -15.0  0.469 -9.000 -9.000 -999.  770.    612.4  0.2930  0.52  0.50  4.60  337.0  15.0  299.8  2.0  0  0.00  68.  1000.  3 NAD-SFC NoSubs
10  6  4 155 20  -41.1  0.406 -9.000 -9.000 -999.  624.    145.6  0.2930  0.52  1.00  4.10  350.0  15.0  297.6  2.0  0  0.00  76.  1001.  3 NAD-SFC NoSubs
10  6  4 155 21  -36.0  0.355 -9.000 -9.000 -999.  509.    110.6  0.2930  0.52  1.00  3.60  349.0  15.0  296.4  2.0  0  0.00  79.  1001.  3 NAD-SFC NoSubs
10  6  4 155 22  -30.9  0.303 -9.000 -9.000 -999.  402.     80.7  0.2930  0.52  1.00  3.10  345.0  15.0  295.8  2.0  0  0.00  80.  1002.  3 NAD-SFC NoSubs
10  6  4 155 23  -15.7  0.196 -9.000 -9.000 -999.  214.     42.7  0.2720  0.52  1.00  2.10  312.0  15.0  295.2  2.0  0  0.00  80.  1002.  3 NAD-SFC NoSubs
10  6  4 155 24  -14.1  0.183 -9.000 -9.000 -999.  188.     39.0  0.2160  0.52  1.00  2.10  295.0  15.0  294.8  2.0  0  0.00  81.  1002.  3 NAD-SFC NoSubs
10  6  5 156  1   -7.1  0.129 -9.000 -9.000 -999.  111.     26.9  0.2160  0.52  1.00  1.50  279.0  15.0  294.2  2.0  0  0.00  82.  1002.  3 NAD-SFC NoSubs
10  6  5 156  2   -7.1  0.129 -9.000 -9.000 -999.  111.     26.9  0.2160  0.52  1.00  1.50  279.0  15.0  293.8  2.0  0  0.00  83.  1002.  3 NAD-SFC NoSubs
10  6  5 156  3   -1.5  0.080 -9.000 -9.000 -999.   54.     31.1  0.2160  0.52  1.00  0.50  288.0  15.0  293.4  2.0  0  0.00  84.  1002.  3 NAD-SFC NoSubs
10  6  5 156  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  293.1  2.0  0  0.00  85.  1002.  3 NAD-SFC NoSubs
10  6  5 156  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  292.8  2.0  0  0.00  87.  1003.  3 NAD-SFC NoSubs
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10  6  5 156  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  0.45  0.00   0.0  15.0 292.6  2.0   0  0.00  89. 1003.   3 NAD-SFC NoSubs
10  6  5 156  7   42.3  0.100  0.698  0.006  287.   76.     -2.1 0.2940  0.52  0.27  0.50  15.0  15.0 294.1  2.0   0  0.00  79. 1003.   3 NAD-SFC NoSubs
10  6  5 156  8   87.2 -9.000 -9.000 -9.000  469. -999. -99999.0 0.2235  0.52  0.21  0.00   0.0  15.0 295.5  2.0   0  0.00  72. 1003.   3 NAD-SFC NoSubs
10  6  5 156  9  126.0 -9.000 -9.000 -9.000  664. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 297.0  2.0   0  0.00  66. 1003.   2 NAD-SFC NoSubs
10  6  5 156 10  157.3 -9.000 -9.000 -9.000  776. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 298.8  2.0   0  0.00  59. 1002.   2 NAD-SFC NoSubs
10  6  5 156 11  178.8 -9.000 -9.000 -9.000  887. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 300.2  2.0   0  0.00  53. 1002.   2 NAD-SFC NoSubs
10  6  5 156 12  189.2 -9.000 -9.000 -9.000  985. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 301.6  2.0   0  0.00  50. 1001.   2 NAD-SFC NoSubs
10  6  5 156 13  189.0  0.121  1.771  0.012 1050.  101.     -1.0 0.2720  0.52  0.19  0.50 325.0  15.0 302.8  2.0   0  0.00  47. 1000.   2 NAD-SFC NoSubs
10  6  5 156 14  178.2  0.238  1.768  0.012 1108.  279.     -6.7 0.2930  0.52  0.19  1.50 345.0  15.0 303.6  2.0   0  0.00  46. 1000.   2 NAD-SFC NoSubs
10  6  5 156 15  156.2  0.340  1.717  0.012 1156.  475.    -22.4 0.2930  0.52  0.19  2.60 354.0  15.0 304.2  2.0   0  0.00  45.  999.   2 NAD-SFC NoSubs
10  6  5 156 16  124.3  0.425  1.608  0.011 1193.  664.    -54.9 0.2940  0.52  0.20  3.60   5.0  15.0 304.2  2.0   0  0.00  46.  999.   2 NAD-SFC NoSubs
10  6  5 156 17   84.4 -9.000 -9.000 -9.000 1217. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 304.1  2.0   0  0.00  54.  999.   2 NAD-SFC NoSubs
10  6  5 156 18   39.0  0.302  1.103  0.011 1228.  399.    -63.2 0.2930  0.52  0.29  2.60 355.0  15.0 303.9  2.0   0  0.00  56.  999.   2 NAD-SFC NoSubs
10  6  5 156 19   -6.1  0.314 -9.000 -9.000 -999.  422.    450.3 0.2930  0.52  0.50  3.10 339.0  15.0 303.1  2.0   0  0.00  58. 1000.   3 NAD-SFC NoSubs
10  6  5 156 20  -34.6  0.347 -9.000 -9.000 -999.  491.    107.8 0.2720  0.52  1.00  3.60 329.0  15.0 301.8  2.0   0  0.00  61. 1000.   3 NAD-SFC NoSubs
10  6  5 156 21  -39.8  0.397 -9.000 -9.000 -999.  601.    140.7 0.2720  0.52  1.00  4.10 329.0  15.0 300.4  2.0   0  0.00  66. 1000.   3 NAD-SFC NoSubs
10  6  5 156 22  -34.9  0.347 -9.000 -9.000 -999.  492.    106.9 0.2720  0.52  1.00  3.60 329.0  15.0 299.2  2.0   0  0.00  69. 1001.   3 NAD-SFC NoSubs
10  6  5 156 23  -30.6  0.303 -9.000 -9.000 -999.  402.     81.5 0.2930  0.52  1.00  3.10 333.0  15.0 298.5  2.0   0  0.00  70. 1001.   3 NAD-SFC NoSubs
10  6  5 156 24  -30.7  0.303 -9.000 -9.000 -999.  401.     81.3 0.2930  0.52  1.00  3.10 340.0  15.0 297.8  2.0   0  0.00  72. 1001.   3 NAD-SFC NoSubs
10  6  6 157  1  -30.8  0.303 -9.000 -9.000 -999.  401.     81.0 0.2930  0.52  1.00  3.10 355.0  15.0 296.8  2.0   0  0.00  75. 1002.   3 NAD-SFC NoSubs
10  6  6 157  2  -25.3  0.252 -9.000 -9.000 -999.  305.     56.5 0.2940  0.52  1.00  2.60   9.0  15.0 295.9  2.0   0  0.00  77. 1002.   3 NAD-SFC NoSubs
10  6  6 157  3  -16.3  0.200 -9.000 -9.000 -999.  216.     44.1 0.2940  0.52  1.00  2.10   9.0  15.0 295.1  2.0   0  0.00  79. 1002.   3 NAD-SFC NoSubs
10  6  6 157  4   -8.1  0.140 -9.000 -9.000 -999.  126.     30.1 0.2940  0.52  1.00  1.50  10.0  15.0 294.4  2.0   0  0.00  81. 1003.   3 NAD-SFC NoSubs
10  6  6 157  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 293.8  2.0   0  0.00  82. 1003.   3 NAD-SFC NoSubs
10  6  6 157  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  0.45  0.00   0.0  15.0 293.4  2.0   0  0.00  83. 1003.   3 NAD-SFC NoSubs
10  6  6 157  7   42.4  0.203  0.660  0.008  242.  219.    -17.6 0.2930  0.52  0.27  1.50 356.0  15.0 294.2  2.0   0  0.00  74. 1003.   3 NAD-SFC NoSubs
10  6  6 157  8   86.7 -9.000 -9.000 -9.000  343. -999. -99999.0 0.2235  0.52  0.21  0.00   0.0  15.0 295.8  2.0   0  0.00  68. 1003.   2 NAD-SFC NoSubs
10  6  6 157  9  126.2 -9.000 -9.000 -9.000  498. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 297.5  2.0   0  0.00  61. 1003.   2 NAD-SFC NoSubs
10  6  6 157 10  157.5 -9.000 -9.000 -9.000  671. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 299.1  2.0   0  0.00  56. 1002.   2 NAD-SFC NoSubs
10  6  6 157 11  179.2 -9.000 -9.000 -9.000  830. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 300.9  2.0   0  0.00  51. 1002.   2 NAD-SFC NoSubs
10  6  6 157 12  189.7  0.115  1.727  0.009  971.   94.     -1.0 0.2160  0.52  0.19  0.50 298.0  15.0 302.4  2.0   0  0.00  46. 1001.   2 NAD-SFC NoSubs
10  6  6 157 13  189.5  0.183  1.785  0.010 1072.  188.     -2.9 0.2720  0.52  0.19  1.00 321.0  15.0 303.4  2.0   0  0.00  44. 1000.   2 NAD-SFC NoSubs
10  6  6 157 14  178.7  0.238  1.797  0.011 1159.  279.     -6.7 0.2930  0.52  0.19  1.50 336.0  15.0 304.2  2.0   0  0.00  43.  999.   2 NAD-SFC NoSubs
10  6  6 157 15  156.7  0.293  1.754  0.011 1230.  380.    -14.2 0.2930  0.52  0.19  2.10 356.0  15.0 304.8  2.0   0  0.00  42.  999.   2 NAD-SFC NoSubs
10  6  6 157 16  124.9  0.379  1.650  0.012 1283.  560.    -38.9 0.2940  0.52  0.20  3.10   8.0  15.0 304.9  2.0   0  0.00  43.  999.   2 NAD-SFC NoSubs
10  6  6 157 17   85.8  0.368  1.469  0.012 1318.  536.    -51.7 0.2940  0.52  0.22  3.10  10.0  15.0 304.8  2.0   0  0.00  48.  999.   3 NAD-SFC NoSubs
10  6  6 157 18   40.8  0.304  1.151  0.012 1334.  404.    -61.2 0.2940  0.52  0.29  2.60   6.0  15.0 304.4  2.0   0  0.00  56.  999.   3 NAD-SFC NoSubs
10  6  6 157 19   -5.9  0.368 -9.000 -9.000 -999.  536.    758.1 0.2930  0.52  0.49  3.60 353.0  15.0 303.4  2.0   0  0.00  59.  999.   3 NAD-SFC NoSubs
10  6  6 157 20  -40.5  0.406 -9.000 -9.000 -999.  621.    147.4 0.2930  0.52  1.00  4.10 338.0  15.0 301.2  2.0   0  0.00  69.  999.   3 NAD-SFC NoSubs
10  6  6 157 21  -46.0  0.458 -9.000 -9.000 -999.  743.    185.9 0.2930  0.52  1.00  4.60 335.0  15.0 299.1  2.0   0  0.00  77. 1000.   3 NAD-SFC NoSubs
10  6  6 157 22  -39.5  0.406 -9.000 -9.000 -999.  624.    151.4 0.2930  0.52  1.00  4.10 344.0  15.0 297.8  2.0   0  0.00  82. 1000.   4 NAD-SFC NoSubs
10  6  6 157 23  -39.7  0.406 -9.000 -9.000 -999.  622.    150.8 0.2930  0.52  1.00  4.10 340.0  15.0 296.6  2.0   0  0.00  84. 1000.   4 NAD-SFC NoSubs
10  6  6 157 24  -39.0  0.398 -9.000 -9.000 -999.  602.    143.8 0.2720  0.52  1.00  4.10 329.0  15.0 295.5  2.0   0  0.00  86. 1000.   4 NAD-SFC NoSubs
10  6  7 158  1  -32.5  0.348 -9.000 -9.000 -999.  494.    115.2 0.2720  0.52  1.00  3.60 329.0  15.0 294.6  2.0   0  0.00  86. 1001.   5 NAD-SFC NoSubs
10  6  7 158  2  -28.5  0.304 -9.000 -9.000 -999.  403.     87.8 0.2930  0.52  1.00  3.10 338.0  15.0 293.8  2.0   0  0.00  86. 1001.   5 NAD-SFC NoSubs
10  6  7 158  3  -26.8  0.304 -9.000 -9.000 -999.  403.     93.8 0.2930  0.52  1.00  3.10 339.0  15.0 293.2  2.0   0  0.00  86. 1001.   6 NAD-SFC NoSubs
10  6  7 158  4  -20.6  0.254 -9.000 -9.000 -999.  307.     70.6 0.2930  0.52  1.00  2.60 343.0  15.0 292.8  2.0   0  0.00  86. 1001.   7 NAD-SFC NoSubs
10  6  7 158  5  -13.9  0.203 -9.000 -9.000 -999.  220.     53.3 0.2930  0.52  1.00  2.10 345.0  15.0 292.4  2.0   0  0.00  86. 1001.   8 NAD-SFC NoSubs
10  6  7 158  6    1.6  0.268  0.171  0.009  111.  333.  -1067.5 0.2930  0.52  0.45  2.60 354.0  15.0 292.4  2.0   0  0.00  83. 1002.   7 NAD-SFC NoSubs
10  6  7 158  7   41.9  0.304  0.689  0.009  279.  402.    -59.9 0.2930  0.52  0.27  2.60 339.0  15.0 293.0  2.0   0  0.00  74. 1002.   5 NAD-SFC NoSubs
10  6  7 158  8   86.3  0.215  1.004  0.009  420.  243.    -10.3 0.2720  0.52  0.21  1.50 328.0  15.0 294.0  2.0   0  0.00  70. 1002.   4 NAD-SFC NoSubs
10  6  7 158  9  124.3  0.224  1.223  0.008  527.  254.     -8.1 0.2720  0.52  0.20  1.50 323.0  15.0 295.1  2.0   0  0.00  66. 1002.   4 NAD-SFC NoSubs
10  6  7 158 10  156.3  0.292  1.407  0.007  637.  380.    -14.3 0.2930  0.52  0.19  2.10 334.0  15.0 296.0  2.0   0  0.00  63. 1001.   3 NAD-SFC NoSubs
10  6  7 158 11  177.4  0.338  1.565  0.006  773.  472.    -19.5 0.2720  0.52  0.19  2.60 327.0  15.0 296.9  2.0   0  0.00  61. 1001.   3 NAD-SFC NoSubs
10  6  7 158 12  187.2  0.392  1.677  0.007  900.  588.    -28.7 0.2930  0.52  0.19  3.10 345.0  15.0 297.4  2.0   0  0.00  60. 1001.   3 NAD-SFC NoSubs
10  6  7 158 13  186.6  0.484  1.749  0.008 1024.  807.    -54.2 0.2930  0.52  0.19  4.10 336.0  15.0 297.2  2.0   0  0.00  60. 1000.   3 NAD-SFC NoSubs
10  6  7 158 14  175.7  0.390  1.780  0.009 1148.  591.    -30.0 0.2930  0.52  0.19  3.10 346.0  15.0 297.4  2.0   0  0.00  59. 1000.   2 NAD-SFC NoSubs
10  6  7 158 15  153.8  0.339  1.751  0.010 1248.  476.    -22.6 0.2930  0.52  0.19  2.60 353.0  15.0 298.2  2.0   0  0.00  54. 1000.   2 NAD-SFC NoSubs
10  6  7 158 16  122.2  0.378  1.654  0.010 1322.  558.    -39.5 0.2930  0.52  0.20  3.10 353.0  15.0 298.8  2.0   0  0.00  52. 1000.   2 NAD-SFC NoSubs
10  6  7 158 17   83.2  0.367  1.467  0.011 1355.  533.    -52.9 0.2930  0.52  0.22  3.10 342.0  15.0 298.8  2.0   0  0.00  61. 1000.   3 NAD-SFC NoSubs
10  6  7 158 18   38.0  0.395  1.133  0.011 1364.  594.   -144.1 0.2930  0.52  0.29  3.60 349.0  15.0 297.8  2.0   0  0.00  66. 1000.   3 NAD-SFC NoSubs
10  6  7 158 19   -7.6  0.313 -9.000 -9.000 -999.  424.    359.9 0.2930  0.52  0.49  3.10 343.0  15.0 296.8  2.0   0  0.00  68. 1000.   4 NAD-SFC NoSubs
10  6  7 158 20  -23.9  0.247 -9.000 -9.000 -999.  296.     56.0 0.2720  0.52  1.00  2.60 316.0  15.0 296.2  2.0   0  0.00  68. 1000.   4 NAD-SFC NoSubs
10  6  7 158 21  -13.8  0.184 -9.000 -9.000 -999.  190.     39.9 0.2160  0.52  1.00  2.10 282.0  15.0 295.6  2.0   0  0.00  68. 1001.   4 NAD-SFC NoSubs
10  6  7 158 22  -19.7  0.219 -9.000 -9.000 -999.  245.     47.3 0.1750  0.52  1.00  2.60 248.0  15.0 294.9  2.0   0  0.00  70. 1001.   4 NAD-SFC NoSubs
10  6  7 158 23  -27.0  0.263 -9.000 -9.000 -999.  325.     60.5 0.1750  0.52  1.00  3.10 261.0  15.0 293.8  2.0   0  0.00  73. 1001.   3 NAD-SFC NoSubs
10  6  7 158 24  -28.6  0.278 -9.000 -9.000 -999.  352.     67.2 0.2160  0.52  1.00  3.10 295.0  15.0 292.8  2.0   0  0.00  74. 1000.   3 NAD-SFC NoSubs
10  6  8 159  1  -35.8  0.347 -9.000 -9.000 -999.  490.    104.1 0.2720  0.52  1.00  3.60 320.0  15.0 291.8  2.0   0  0.00  77. 1001.   3 NAD-SFC NoSubs
10  6  8 159  2  -36.7  0.354 -9.000 -9.000 -999.  506.    108.4 0.2930  0.52  1.00  3.60 345.0  15.0 290.8  2.0   0  0.00  80. 1001.   3 NAD-SFC NoSubs
10  6  8 159  3  -31.5  0.303 -9.000 -9.000 -999.  402.     79.1 0.2930  0.52  1.00  3.10 353.0  15.0 290.2  2.0   0  0.00  83. 1002.   3 NAD-SFC NoSubs
10  6  8 159  4  -31.5  0.303 -9.000 -9.000 -999.  401.     79.0 0.2930  0.52  1.00  3.10 346.0  15.0 289.8  2.0   0  0.00  84. 1002.   3 NAD-SFC NoSubs
10  6  8 159  5  -25.6  0.252 -9.000 -9.000 -999.  304.     55.7 0.2930  0.52  1.00  2.60 338.0  15.0 289.2  2.0   0  0.00  84. 1002.   3 NAD-SFC NoSubs
10  6  8 159  6   -4.2  0.263 -9.000 -9.000 -999.  323.    386.5 0.2930  0.52  0.45  2.60 336.0  15.0 289.2  2.0   0  0.00  82. 1003.   3 NAD-SFC NoSubs
10  6  8 159  7   40.3  0.257  0.629  0.005  221.  313.    -37.9 0.2930  0.52  0.27  2.10 337.0  15.0 290.2  2.0   0  0.00  73. 1003.   2 NAD-SFC NoSubs
10  6  8 159  8   85.5  0.109  0.933  0.005  340.  105.     -1.3 0.2720  0.52  0.21  0.50 329.0  15.0 292.1  2.0   0  0.00  65. 1003.   2 NAD-SFC NoSubs
10  6  8 159  9  124.9 -9.000 -9.000 -9.000  509. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 293.9  2.0   0  0.00  59. 1003.   2 NAD-SFC NoSubs
10  6  8 159 10  156.2 -9.000 -9.000 -9.000  982. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 295.6  2.0   0  0.00  54. 1003.   2 NAD-SFC NoSubs
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10  6  8 159 11  177.7 -9.000 -9.000 -9.000 1036. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 297.2  2.0   0  0.00  48. 1002.   2 NAD-SFC NoSubs
10  6  8 159 12  188.0 -9.000 -9.000 -9.000 1092. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 298.5  2.0   0  0.00  45. 1001.   2 NAD-SFC NoSubs
10  6  8 159 13  188.0 -9.000 -9.000 -9.000 1145. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 299.8  2.0   0  0.00  43. 1001.   2 NAD-SFC NoSubs
10  6  8 159 14  177.2  0.184  1.809  0.017 1193.  190.     -3.2 0.2940  0.52  0.19  1.00   8.0  15.0 300.6  2.0   0  0.00  41. 1000.   2 NAD-SFC NoSubs
10  6  8 159 15  155.3  0.340  1.751  0.017 1234.  476.    -22.5 0.2940  0.52  0.19  2.60  13.0  15.0 301.1  2.0   0  0.00  41.  999.   3 NAD-SFC NoSubs
10  6  8 159 16  123.6  0.425  1.636  0.018 1265.  664.    -55.2 0.2940  0.52  0.20  3.60   9.0  15.0 301.2  2.0   0  0.00  42.  999.   2 NAD-SFC NoSubs
10  6  8 159 17   84.5  0.459  1.449  0.017 1285.  747.   -102.2 0.2940  0.52  0.22  4.10  14.0  15.0 300.9  2.0   0  0.00  45.  999.   3 NAD-SFC NoSubs
10  6  8 159 18   39.4  0.349  1.126  0.017 1293.  503.    -96.0 0.2940  0.52  0.28  3.10  14.0  15.0 300.2  2.0   0  0.00  55. 1000.   3 NAD-SFC NoSubs
10  6  8 159 19   -7.4  0.313 -9.000 -9.000 -999.  422.    369.9 0.2940  0.52  0.49  3.10  13.0  15.0 299.6  2.0   0  0.00  57. 1000.   3 NAD-SFC NoSubs
10  6  8 159 20  -25.2  0.252 -9.000 -9.000 -999.  305.     56.7 0.2930  0.52  1.00  2.60 338.0  15.0 298.8  2.0   0  0.00  58. 1001.   3 NAD-SFC NoSubs
10  6  8 159 21  -35.1  0.347 -9.000 -9.000 -999.  491.    106.3 0.2720  0.52  1.00  3.60 319.0  15.0 297.6  2.0   0  0.00  62. 1002.   3 NAD-SFC NoSubs
10  6  8 159 22  -41.4  0.406 -9.000 -9.000 -999.  621.    144.5 0.2930  0.52  1.00  4.10 330.0  15.0 295.5  2.0   0  0.00  70. 1003.   3 NAD-SFC NoSubs
10  6  8 159 23  -35.6  0.347 -9.000 -9.000 -999.  493.    104.9 0.2720  0.52  1.00  3.60 329.0  15.0 293.8  2.0   0  0.00  74. 1003.   3 NAD-SFC NoSubs
10  6  8 159 24  -30.6  0.297 -9.000 -9.000 -999.  389.     76.4 0.2720  0.52  1.00  3.10 327.0  15.0 292.5  2.0   0  0.00  74. 1003.   3 NAD-SFC NoSubs
10  6  9 160  1  -31.4  0.303 -9.000 -9.000 -999.  401.     79.6 0.2930  0.52  1.00  3.10 330.0  15.0 291.8  2.0   0  0.00  73. 1004.   3 NAD-SFC NoSubs
10  6  9 160  2  -16.4  0.200 -9.000 -9.000 -999.  220.     43.7 0.2930  0.52  1.00  2.10 340.0  15.0 291.2  2.0   0  0.00  73. 1004.   3 NAD-SFC NoSubs
10  6  9 160  3  -16.4  0.200 -9.000 -9.000 -999.  215.     43.7 0.2930  0.52  1.00  2.10 346.0  15.0 291.0  2.0   0  0.00  73. 1004.   3 NAD-SFC NoSubs
10  6  9 160  4  -16.4  0.200 -9.000 -9.000 -999.  215.     43.6 0.2930  0.52  1.00  2.10 337.0  15.0 290.8  2.0   0  0.00  72. 1004.   3 NAD-SFC NoSubs
10  6  9 160  5  -16.4  0.200 -9.000 -9.000 -999.  215.     43.6 0.2930  0.52  1.00  2.10 340.0  15.0 290.2  2.0   0  0.00  73. 1004.   3 NAD-SFC NoSubs
10  6  9 160  6   -3.1  0.211 -9.000 -9.000 -999.  232.    269.0 0.2930  0.52  0.45  2.10 337.0  15.0 290.0  2.0   0  0.00  73. 1004.   3 NAD-SFC NoSubs
10  6  9 160  7   41.2  0.349  0.768  0.008  394.  496.    -92.7 0.2930  0.52  0.27  3.10 355.0  15.0 289.8  2.0   0  0.00  65. 1005.   3 NAD-SFC NoSubs
10  6  9 160  8   85.1  0.218  1.048  0.008  485.  255.    -11.0 0.2930  0.52  0.21  1.50 341.0  15.0 290.4  2.0   0  0.00  60. 1005.   2 NAD-SFC NoSubs
10  6  9 160  9  124.1  0.173  1.272  0.008  595.  174.     -3.8 0.2720  0.52  0.20  1.00 316.0  15.0 291.2  2.0   0  0.00  57. 1005.   2 NAD-SFC NoSubs
10  6  9 160 10  155.2  0.178  1.458  0.008  716.  180.     -3.3 0.2720  0.52  0.19  1.00 314.0  15.0 292.8  2.0   0  0.00  52. 1005.   2 NAD-SFC NoSubs
10  6  9 160 11  176.6  0.181  1.606  0.008  842.  185.     -3.0 0.2720  0.52  0.19  1.00 329.0  15.0 294.0  2.0   0  0.00  49. 1004.   2 NAD-SFC NoSubs
10  6  9 160 12  186.8  0.239  1.709  0.009  958.  281.     -6.6 0.2930  0.52  0.19  1.50 341.0  15.0 295.2  2.0   0  0.00  46. 1003.   2 NAD-SFC NoSubs
10  6  9 160 13  186.6  0.346  1.767  0.010 1060.  488.    -19.8 0.2930  0.52  0.19  2.60 355.0  15.0 296.0  2.0   0  0.00  44. 1003.   2 NAD-SFC NoSubs
10  6  9 160 14  175.6  0.436  1.779  0.010 1149.  691.    -42.2 0.2930  0.52  0.19  3.60 354.0  15.0 296.4  2.0   0  0.00  44. 1002.   2 NAD-SFC NoSubs
10  6  9 160 15  153.5  0.477  1.736  0.011 1220.  790.    -63.2 0.2930  0.52  0.19  4.10 360.0  15.0 296.5  2.0   0  0.00  46. 1002.   3 NAD-SFC NoSubs
10  6  9 160 16  122.3  0.470  1.634  0.011 1275.  773.    -75.7 0.2940  0.52  0.20  4.10   1.0  15.0 296.9  2.0   0  0.00  57. 1001.   3 NAD-SFC NoSubs
10  6  9 160 17   82.6  0.367  1.446  0.011 1310.  540.    -53.2 0.2930  0.52  0.22  3.10 349.0  15.0 296.8  2.0   0  0.00  65. 1001.   4 NAD-SFC NoSubs
10  6  9 160 18   38.0  0.395  1.120  0.012 1323.  594.   -144.4 0.2930  0.52  0.28  3.60 353.0  15.0 295.8  2.0   0  0.00  70. 1002.   5 NAD-SFC NoSubs
10  6  9 160 19  -11.5  0.417 -9.000 -9.000 -999.  647.    563.5 0.2930  0.52  0.49  4.10 339.0  15.0 294.2  2.0   0  0.00  77. 1002.  10 NAD-SFC NoSubs
10  6  9 160 20  -19.3  0.359 -9.000 -9.000 -999.  519.    214.6 0.2930  0.52  1.00  3.60 344.0  15.0 293.4  2.0   0  0.00  79. 1002.  10 NAD-SFC NoSubs
10  6  9 160 21  -19.4  0.359 -9.000 -9.000 -999.  517.    214.1 0.2930  0.52  1.00  3.60 346.0  15.0 292.8  2.0   0  0.00  80. 1003.  10 NAD-SFC NoSubs
10  6  9 160 22  -22.3  0.411 -9.000 -9.000 -999.  633.    279.7 0.2930  0.52  1.00  4.10 348.0  15.0 291.8  2.0   0  0.00  80. 1003.  10 NAD-SFC NoSubs
10  6  9 160 23  -34.0  0.461 -9.000 -9.000 -999.  750.    257.1 0.2930  0.52  1.00  4.60 344.0  15.0 290.8  2.0   0  0.00  80. 1003.   8 NAD-SFC NoSubs
10  6  9 160 24  -39.8  0.397 -9.000 -9.000 -999.  605.    140.9 0.2720  0.52  1.00  4.10 327.0  15.0 289.8  2.0   0  0.00  81. 1003.   4 NAD-SFC NoSubs
10  6 10 161  1  -36.2  0.347 -9.000 -9.000 -999.  492.    103.1 0.2720  0.52  1.00  3.60 316.0  15.0 289.0  2.0   0  0.00  83. 1004.   3 NAD-SFC NoSubs
10  6 10 161  2  -31.0  0.297 -9.000 -9.000 -999.  389.     75.3 0.2720  0.52  1.00  3.10 320.0  15.0 288.5  2.0   0  0.00  85. 1004.   3 NAD-SFC NoSubs
10  6 10 161  3  -36.3  0.347 -9.000 -9.000 -999.  490.    102.8 0.2720  0.52  1.00  3.60 320.0  15.0 288.1  2.0   0  0.00  86. 1004.   3 NAD-SFC NoSubs
10  6 10 161  4  -35.1  0.347 -9.000 -9.000 -999.  491.    106.8 0.2720  0.52  1.00  3.60 327.0  15.0 288.0  2.0   0  0.00  83. 1005.   4 NAD-SFC NoSubs
10  6 10 161  5  -24.8  0.298 -9.000 -9.000 -999.  392.     96.0 0.2720  0.52  1.00  3.10 320.0  15.0 287.8  2.0   0  0.00  84. 1005.   7 NAD-SFC NoSubs
10  6 10 161  6   -7.5  0.254 -9.000 -9.000 -999.  307.    195.9 0.2720  0.52  0.45  2.60 321.0  15.0 287.5  2.0   0  0.00  84. 1005.  10 NAD-SFC NoSubs
10  6 10 161  7    7.6  0.319  0.376  0.005  252.  433.   -386.6 0.2720  0.52  0.27  3.10 320.0  15.0 287.4  2.0   0  0.00  83. 1006.  10 NAD-SFC NoSubs
10  6 10 161  8   18.8  0.383  0.564  0.005  342.  569.   -268.4 0.2930  0.52  0.21  3.60 335.0  15.0 287.4  2.0   0  0.00  80. 1006.  10 NAD-SFC NoSubs
10  6 10 161  9   28.7  0.296  0.701  0.005  431.  391.    -81.1 0.2930  0.52  0.20  2.60 338.0  15.0 288.1  2.0   0  0.00  74. 1006.  10 NAD-SFC NoSubs
10  6 10 161 10  138.4  0.289  1.388  0.005  693.  372.    -15.6 0.2930  0.52  0.19  2.10 341.0  15.0 290.0  2.0   0  0.00  65. 1005.   6 NAD-SFC NoSubs
10  6 10 161 11  117.5  0.284  1.437  0.008  905.  364.    -17.5 0.2930  0.52  0.19  2.10 348.0  15.0 291.8  2.0   0  0.00  59. 1005.   8 NAD-SFC NoSubs
10  6 10 161 12  149.1  0.476  1.623  0.011 1029.  788.    -64.8 0.2930  0.52  0.19  4.10 340.0  15.0 293.0  2.0   0  0.00  54. 1004.   7 NAD-SFC NoSubs
10  6 10 161 13  176.9  0.574  1.768  0.012 1119. 1041.    -95.4 0.2930  0.52  0.19  5.10 342.0  15.0 293.9  2.0   0  0.00  50. 1003.   5 NAD-SFC NoSubs
10  6 10 161 14  172.5  0.563  1.794  0.014 1200. 1015.    -92.6 0.2720  0.52  0.19  5.10 327.0  15.0 294.6  2.0   0  0.00  46. 1003.   4 NAD-SFC NoSubs
10  6 10 161 15  153.1  0.625  1.757  0.015 1267. 1184.   -142.5 0.2930  0.52  0.19  5.70 331.0  15.0 294.9  2.0   0  0.00  44. 1002.   3 NAD-SFC NoSubs
10  6 10 161 16  121.8  0.608  1.649  0.015 1318. 1138.   -164.7 0.2720  0.52  0.20  5.70 329.0  15.0 294.9  2.0   0  0.00  42. 1002.   3 NAD-SFC NoSubs
10  6 10 161 17   82.6  0.609  1.459  0.015 1345. 1140.   -243.8 0.2930  0.52  0.22  5.70 331.0  15.0 294.9  2.0   0  0.00  41. 1002.   3 NAD-SFC NoSubs
10  6 10 161 18   36.6  0.341  1.114  0.015 1352.  555.    -97.0 0.2720  0.52  0.28  3.10 329.0  15.0 294.2  2.0   0  0.00  50. 1002.   2 NAD-SFC NoSubs
10  6 10 161 19  -14.6  0.353 -9.000 -9.000 -999.  505.    269.7 0.2720  0.52  0.48  3.60 316.0  15.0 293.1  2.0   0  0.00  53. 1002.   2 NAD-SFC NoSubs
10  6 10 161 20  -36.7  0.347 -9.000 -9.000 -999.  490.    101.3 0.2720  0.52  1.00  3.60 325.0  15.0 291.6  2.0   0  0.00  56. 1002.   2 NAD-SFC NoSubs
10  6 10 161 21  -36.9  0.347 -9.000 -9.000 -999.  490.    100.8 0.2720  0.52  1.00  3.60 307.0  15.0 290.2  2.0   0  0.00  58. 1002.   2 NAD-SFC NoSubs
10  6 10 161 22  -31.6  0.296 -9.000 -9.000 -999.  389.     73.5 0.2720  0.52  1.00  3.10 300.0  15.0 289.5  2.0   0  0.00  58. 1001.   2 NAD-SFC NoSubs
10  6 10 161 23  -14.4  0.183 -9.000 -9.000 -999.  194.     38.0 0.2160  0.52  1.00  2.10 292.0  15.0 288.9  2.0   0  0.00  58. 1001.   2 NAD-SFC NoSubs
10  6 10 161 24   -1.5  0.081 -9.000 -9.000 -999.   62.     31.5 0.2160  0.52  1.00  0.50 280.0  15.0 288.4  2.0   0  0.00  59. 1001.   2 NAD-SFC NoSubs
10  6 11 162  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 288.1  2.0   0  0.00  59. 1001.   2 NAD-SFC NoSubs
10  6 11 162  2   -1.4  0.079 -9.000 -9.000 -999.   54.     31.1 0.1750  0.52  1.00  0.50 252.0  15.0 287.5  2.0   0  0.00  61. 1001.   2 NAD-SFC NoSubs
10  6 11 162  3   -6.7  0.123 -9.000 -9.000 -999.  103.     24.6 0.1750  0.52  1.00  1.50 251.0  15.0 286.9  2.0   0  0.00  63. 1001.   2 NAD-SFC NoSubs
10  6 11 162  4  -13.2  0.173 -9.000 -9.000 -999.  173.     35.0 0.1750  0.52  1.00  2.10 246.0  15.0 286.5  2.0   0  0.00  63. 1001.   2 NAD-SFC NoSubs
10  6 11 162  5  -20.6  0.218 -9.000 -9.000 -999.  244.     44.8 0.1750  0.52  1.00  2.60 247.0  15.0 286.0  2.0   0  0.00  64. 1001.   2 NAD-SFC NoSubs
10  6 11 162  6   -5.1  0.181 -9.000 -9.000 -999.  185.    104.1 0.1750  0.52  0.45  2.10 241.0  15.0 285.8  2.0   0  0.00  66. 1002.   2 NAD-SFC NoSubs
10  6 11 162  7   39.8  0.298  0.587  0.007  182.  390.    -59.4 0.2720  0.52  0.27  2.60 326.0  15.0 288.1  2.0   0  0.00  58. 1002.   2 NAD-SFC NoSubs
10  6 11 162  8   84.9  0.275  1.000  0.007  421.  347.    -21.9 0.2930  0.52  0.21  2.10 341.0  15.0 289.8  2.0   0  0.00  51. 1002.   2 NAD-SFC NoSubs
10  6 11 162  9  124.2  0.332  1.244  0.006  555.  459.    -26.3 0.2930  0.52  0.20  2.60 336.0  15.0 291.8  2.0   0  0.00  44. 1002.   2 NAD-SFC NoSubs
10  6 11 162 10  155.5  0.385  1.446  0.005  696.  574.    -32.9 0.2930  0.52  0.19  3.10 338.0  15.0 293.4  2.0   0  0.00  38. 1002.   2 NAD-SFC NoSubs
10  6 11 162 11  176.9  0.390  1.619  0.005  858.  584.    -29.9 0.2930  0.52  0.19  3.10 336.0  15.0 294.8  2.0   0  0.00  35. 1001.   2 NAD-SFC NoSubs
10  6 11 162 12  186.9  0.438  1.745  0.005 1016.  696.    -40.2 0.2930  0.52  0.19  3.60 343.0  15.0 295.9  2.0   0  0.00  33. 1000.   3 NAD-SFC NoSubs
10  6 11 162 13  186.8  0.438  1.843  0.006 1197.  696.    -40.2 0.2930  0.52  0.19  3.60 349.0  15.0 296.9  2.0   0  0.00  32. 1000.   3 NAD-SFC NoSubs
10  6 11 162 14  176.4  0.482  1.879  0.006 1344.  802.    -56.6 0.2930  0.52  0.19  4.10 352.0  15.0 297.8  2.0   0  0.00  32. 1000.   2 NAD-SFC NoSubs
10  6 11 162 15  154.6  0.477  1.833  0.006 1421.  792.    -62.7 0.2930  0.52  0.19  4.10 348.0  15.0 298.4  2.0   0  0.00  31.  999.   2 NAD-SFC NoSubs
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10	6	11	162	16	123.3	0.470	1.722	0.006	1480.	773.	-74.9	0.2930	0.52	0.20	4.10	340.0	15.0	298.9	2.0	0	0.00	30.	999.	2	NAD-SFC	NoSubs
10	6	11	162	17	83.8	0.367	1.528	0.006	1518.	541.	-52.5	0.2930	0.52	0.22	3.10	342.0	15.0	299.0	2.0	0	0.00	33.	999.	2	NAD-SFC	NoSubs
10	6	11	162	18	38.6	0.257	1.184	0.006	1534.	319.	-39.0	0.2930	0.52	0.28	2.10	342.0	15.0	298.6	2.0	0	0.00	40.	999.	2	NAD-SFC	NoSubs
10	6	11	162	19	-4.3	0.143	-9.000	-9.000	-999.	137.	59.6	0.2720	0.52	0.48	1.50	321.0	15.0	298.2	2.0	0	0.00	40.	999.	2	NAD-SFC	NoSubs
10	6	11	162	20	-1.4	0.079	-9.000	-9.000	-999.	55.	31.0	0.1950	0.52	1.00	0.50	229.0	15.0	297.0	2.0	0	0.00	41.	999.	2	NAD-SFC	NoSubs
10	6	11	162	21	-6.8	0.126	-9.000	-9.000	-999.	107.	25.8	0.1950	0.52	1.00	1.50	228.0	15.0	296.0	2.0	0	0.00	41.	999.	2	NAD-SFC	NoSubs
10	6	11	162	22	-41.6	0.398	-9.000	-9.000	-999.	602.	134.8	0.1750	0.52	1.00	4.60	250.0	15.0	294.8	2.0	0	0.00	41.	999.	2	NAD-SFC	NoSubs
10	6	11	162	23	-37.2	0.353	-9.000	-9.000	-999.	505.	105.1	0.1750	0.52	1.00	4.10	265.0	15.0	292.1	2.0	0	0.00	49.	999.	2	NAD-SFC	NoSubs
10	6	11	162	24	-8.0	0.137	-9.000	-9.000	-999.	176.	28.7	0.2720	0.52	1.00	1.50	300.0	15.0	291.1	2.0	0	0.00	52.	999.	2	NAD-SFC	NoSubs
10	6	12	163	1	-3.8	0.099	-9.000	-9.000	-999.	77.	22.9	0.2470	0.52	1.00	1.00	32.0	15.0	289.9	2.0	0	0.00	60.	999.	2	NAD-SFC	NoSubs
10	6	12	163	2	-8.0	0.137	-9.000	-9.000	-999.	122.	28.6	0.2720	0.52	1.00	1.50	328.0	15.0	289.1	2.0	0	0.00	66.	1000.	2	NAD-SFC	NoSubs
10	6	12	163	3	-24.9	0.246	-9.000	-9.000	-999.	293.	53.2	0.2720	0.52	1.00	2.60	318.0	15.0	288.4	2.0	0	0.00	72.	1001.	2	NAD-SFC	NoSubs
10	6	12	163	4	-25.0	0.246	-9.000	-9.000	-999.	293.	53.2	0.2720	0.52	1.00	2.60	306.0	15.0	288.1	2.0	0	0.00	72.	1001.	2	NAD-SFC	NoSubs
10	6	12	163	5	-14.4	0.183	-9.000	-9.000	-999.	189.	37.9	0.2160	0.52	1.00	2.10	292.0	15.0	287.8	2.0	0	0.00	69.	1001.	2	NAD-SFC	NoSubs
10	6	12	163	6	-4.9	0.191	-9.000	-9.000	-999.	200.	127.1	0.2160	0.52	0.45	2.10	284.0	15.0	287.6	2.0	0	0.00	67.	1002.	2	NAD-SFC	NoSubs
10	6	12	163	7	40.3	0.298	0.470	0.006	92.	391.	-58.8	0.2720	0.52	0.27	2.60	318.0	15.0	290.1	2.0	0	0.00	54.	1002.	2	NAD-SFC	NoSubs
10	6	12	163	8	85.6	0.111	0.843	0.008	250.	128.	-1.4	0.2930	0.52	0.21	0.50	330.0	15.0	292.4	2.0	0	0.00	46.	1002.	2	NAD-SFC	NoSubs
10	6	12	163	9	125.1	0.104	1.124	0.006	406.	80.	-1.0	0.1750	0.52	0.20	0.50	240.0	15.0	294.4	2.0	0	0.00	40.	1002.	2	NAD-SFC	NoSubs
10	6	12	163	10	156.4	0.110	1.375	0.005	595.	87.	-1.0	0.1950	0.52	0.19	0.50	224.0	15.0	296.1	2.0	0	0.00	36.	1002.	2	NAD-SFC	NoSubs
10	6	12	163	11	178.0	-9.000	-9.000	-9.000	795.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.6	2.0	0	0.00	32.	1002.	2	NAD-SFC	NoSubs
10	6	12	163	12	188.4	-9.000	-9.000	-9.000	992.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.8	2.0	0	0.00	30.	1001.	2	NAD-SFC	NoSubs
10	6	12	163	13	188.4	-9.000	-9.000	-9.000	1256.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.8	2.0	0	0.00	28.	1000.	2	NAD-SFC	NoSubs
10	6	12	163	14	177.8	-9.000	-9.000	-9.000	1508.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.6	2.0	0	0.00	26.	1000.	2	NAD-SFC	NoSubs
10	6	12	163	15	156.0	0.115	1.958	0.005	1721.	94.	-1.0	0.2470	0.52	0.19	0.50	41.0	15.0	301.1	2.0	0	0.00	25.	1000.	2	NAD-SFC	NoSubs
10	6	12	163	16	124.6	0.112	1.865	0.005	1859.	90.	-1.0	0.2470	0.52	0.20	0.50	52.0	15.0	301.4	2.0	0	0.00	25.	999.	2	NAD-SFC	NoSubs
10	6	12	163	17	85.2	0.211	1.666	0.005	1940.	232.	-9.8	0.2470	0.52	0.22	1.50	59.0	15.0	301.4	2.0	0	0.00	25.	1000.	2	NAD-SFC	NoSubs
10	6	12	163	18	40.0	0.188	1.303	0.005	1976.	195.	-14.7	0.2090	0.52	0.28	1.50	74.0	15.0	301.0	2.0	0	0.00	32.	1000.	2	NAD-SFC	NoSubs
10	6	12	163	19	-0.4	0.047	-9.000	-9.000	-999.	55.	22.2	0.2090	0.52	0.48	0.50	74.0	15.0	300.2	2.0	0	0.00	34.	1001.	2	NAD-SFC	NoSubs
10	6	12	163	20	-6.5	0.122	-9.000	-9.000	-999.	103.	25.0	0.1750	0.52	1.00	1.50	240.0	15.0	298.8	2.0	0	0.00	40.	1001.	2	NAD-SFC	NoSubs
10	6	12	163	21	-43.9	0.420	-9.000	-9.000	-999.	653.	150.7	0.2160	0.52	1.00	4.60	271.0	15.0	295.8	2.0	0	0.00	47.	1002.	2	NAD-SFC	NoSubs
10	6	12	163	22	-34.3	0.325	-9.000	-9.000	-999.	451.	89.7	0.2160	0.52	1.00	3.60	276.0	15.0	293.2	2.0	0	0.00	52.	1003.	2	NAD-SFC	NoSubs
10	6	12	163	23	-6.6	0.122	-9.000	-9.000	-999.	152.	24.8	0.1750	0.52	1.00	1.50	267.0	15.0	292.8	2.0	0	0.00	50.	1004.	2	NAD-SFC	NoSubs
10	6	12	163	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	292.5	2.0	0	0.00	48.	1004.	2	NAD-SFC	NoSubs
10	6	13	164	1	-1.6	0.082	-9.000	-9.000	-999.	57.	31.7	0.2470	0.52	1.00	0.50	49.0	15.0	292.2	2.0	0	0.00	45.	1004.	2	NAD-SFC	NoSubs
10	6	13	164	2	-1.6	0.082	-9.000	-9.000	-999.	57.	31.7	0.2470	0.52	1.00	0.50	53.0	15.0	291.8	2.0	0	0.00	46.	1005.	2	NAD-SFC	NoSubs
10	6	13	164	3	-1.7	0.084	-9.000	-9.000	-999.	59.	32.0	0.2940	0.52	1.00	0.50	28.0	15.0	290.9	2.0	0	0.00	50.	1005.	2	NAD-SFC	NoSubs
10	6	13	164	4	-1.5	0.081	-9.000	-9.000	-999.	55.	31.5	0.2160	0.52	1.00	0.50	292.0	15.0	290.2	2.0	0	0.00	52.	1005.	2	NAD-SFC	NoSubs
10	6	13	164	5	-3.5	0.095	-9.000	-9.000	-999.	71.	22.1	0.1950	0.52	1.00	1.00	230.0	15.0	289.6	2.0	0	0.00	54.	1005.	2	NAD-SFC	NoSubs
10	6	13	164	6	-3.1	0.131	-9.000	-9.000	-999.	114.	66.2	0.1950	0.52	0.45	1.50	232.0	15.0	289.4	2.0	0	0.00	57.	1006.	2	NAD-SFC	NoSubs
10	6	13	164	7	40.6	0.189	0.526	0.008	128.	197.	-15.0	0.2160	0.52	0.27	1.50	285.0	15.0	291.1	2.0	0	0.00	59.	1007.	2	NAD-SFC	NoSubs
10	6	13	164	8	85.8	0.101	0.864	0.007	270.	80.	-1.1	0.1950	0.52	0.21	0.50	230.0	15.0	293.0	2.0	0	0.00	56.	1007.	2	NAD-SFC	NoSubs
10	6	13	164	9	125.5	0.106	1.138	0.005	422.	83.	-1.0	0.1950	0.52	0.20	0.50	222.0	15.0	295.5	2.0	0	0.00	46.	1007.	2	NAD-SFC	NoSubs
10	6	13	164	10	156.9	-9.000	-9.000	-9.000	626.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.4	2.0	0	0.00	40.	1006.	2	NAD-SFC	NoSubs
10	6	13	164	11	178.6	-9.000	-9.000	-9.000	873.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.1	2.0	0	0.00	35.	1006.	2	NAD-SFC	NoSubs
10	6	13	164	12	189.2	-9.000	-9.000	-9.000	1076.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.6	2.0	0	0.00	32.	1005.	2	NAD-SFC	NoSubs
10	6	13	164	13	189.3	-9.000	-9.000	-9.000	1238.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.8	2.0	0	0.00	30.	1004.	2	NAD-SFC	NoSubs
10	6	13	164	14	178.9	-9.000	-9.000	-9.000	1388.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.8	2.0	0	0.00	28.	1003.	2	NAD-SFC	NoSubs
10	6	13	164	15	157.2	0.116	1.888	0.005	1534.	94.	-1.0	0.2470	0.52	0.19	0.50	30.0	15.0	303.2	2.0	0	0.00	26.	1003.	2	NAD-SFC	NoSubs
10	6	13	164	16	125.8	0.228	1.794	0.005	1642.	262.	-8.4	0.2940	0.52	0.20	1.50	24.0	15.0	303.4	2.0	0	0.00	26.	1002.	2	NAD-SFC	NoSubs
10	6	13	164	17	86.2	0.322	1.603	0.005	1710.	438.	-34.5	0.2940	0.52	0.22	2.60	15.0	15.0	303.1	2.0	0	0.00	29.	1002.	2	NAD-SFC	NoSubs
10	6	13	164	18	40.9	0.258	1.258	0.005	1739.	316.	-37.4	0.2940	0.52	0.28	2.10	25.0	15.0	302.4	2.0	0	0.00	39.	1002.	2	NAD-SFC	NoSubs
10	6	13	164	19	-3.8	0.210	-9.000	-9.000	-999.	231.	217.3	0.2940	0.52	0.48	2.10	16.0	15.0	301.6	2.0	0	0.00	40.	1002.	2	NAD-SFC	NoSubs
10	6	13	164	20	-1.6	0.083	-9.000	-9.000	-999.	71.	31.7	0.2930	0.52	1.00	0.50	336.0	15.0	300.1	2.0	0	0.00	45.	1002.	2	NAD-SFC	NoSubs
10	6	13	164	21	-3.3	0.093	-9.000	-9.000	-999.	68.	21.6	0.1750	0.52	1.00	1.00	248.0	15.0	298.4	2.0	0	0.00	51.	1002.	2	NAD-SFC	NoSubs
10	6	13	164	22	-27.5	0.263	-9.000	-9.000	-999.	324.	59.4	0.1750	0.52	1.00	3.10	267.0	15.0	296.5	2.0	0	0.00	56.	1003.	2	NAD-SFC	NoSubs
10	6	13	164	23	-7.2	0.129	-9.000	-9.000	-999.	123.	26.7	0.2160	0.52	1.00	1.50	287.0	15.0	295.2	2.0	0	0.00	59.	1003.	2	NAD-SFC	NoSubs
10	6	13	164	24	-1.6	0.083	-9.000	-9.000	-999.	58.	31.8	0.2720	0.52	1.00	0.50	318.0	15.0	294.2	2.0	0	0.00	61.	1003.	2	NAD-SFC	NoSubs
10	6	14	165	1	-1.6	0.084	-9.000	-9.000	-999.	58.	31.9	0.2930	0.52	1.00	0.50	359.0	15.0	293.6	2.0	0	0.00	62.	1003.	2	NAD-SFC	NoSubs
10	6	14	165	2	-1.6	0.082	-9.000	-9.000	-999.	56.	31.6	0.2470	0.52	1.00	0.50	30.0	15.0	293.0	2.0	0	0.00	63.	1003.	2	NAD-SFC	NoSubs
10	6	14	165	3	-1.7	0.084	-9.000	-9.000	-999.	58.	32.0	0.2940	0.52	1.00	0.50	19.0	15.0	292.2	2.0	0	0.00	66.	1003.	2	NAD-SFC	NoSubs
10	6	14	165	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	291.6	2.0	0	0.00	69.	1003.	2	NAD-SFC	NoSubs
10	6	14	165	5	-1.4	0.079	-9.000	-9.000	-999.	53.	31.0	0.1750	0.52	1.00	0.50	247.0	15.0	290.8	2.0	0	0.00	72.	1003.	2	NAD-SFC	NoSubs
10	6	14	165	6	-2.7	0.128	-9.000	-9.000	-999.	110.	68.5	0.1750	0.52	0.45	1.50	251.0	15.0	290.8	2.0	0	0.00	72.	1003.	2	NAD-SFC	NoSubs
10	6	14	165	7	41.1	0.144	0.521	0.011	123.	131.	-6.5	0.2160	0.52	0.27	1.00	279.0	15.0	292.9	2.0	0	0.00	66.	1004.	2	NAD-SFC	NoSubs
10	6	14	165	8	86.3	0.099	0.842	0.008	247.	75.	-1.0	0.1750	0.52	0.21	0.50	247.0	15.0	294.8	2.0	0	0.00	62.	1003.	2	NAD-SFC	NoSubs
10	6	14	165	9	126.1	-9.000	-9.000	-9.000	385.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	297.4	2.0	0	0.00	52.	1003.	2	NAD-SFC	NoSubs
10	6	14	165	10	157.7	-9.000	-9.000	-9.000	588.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.4	2.0	0	0.00	45.	1002.	2	NAD-SFC	NoSubs
10	6	14	165	11	179.6	-9.000	-9.000	-9.000	813.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.2	2.0	0	0.00	39.	1002.	2	NAD-SFC	NoSubs
10	6	14	165	12	190.3	-9.000	-9.000	-9.000	1017.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.8	2.0	0	0.00	35.	1001.	2	NAD-SFC	NoSubs
10	6	14	165	13	190.6	0.115	1.840	0.005	1169.	94.	-1.0	0.2160	0.52	0.19	0.50	289.0	15.0	304.0	2.0	0	0.00	32.	1000.	2	NAD-SFC	NoSubs
10	6	14	165	14	180.1	0.120	1.870	0.005	1297.	100.	-1.0	0.2720	0.52	0.19	0.50	306.0	15.0	304.9	2.0	0	0.00	29.	999.	2	NAD-SFC	NoSubs
10	6	14	165	15	158.5	0.182	1.838	0.005	1397.	186.	-3.4	0.2930	0.52	0.19	1.00	340.0	15.0	305.4	2.0	0	0.00	28.	998.	2	NAD-SFC	NoSubs
10	6	14	165	16	127.4	-9.000	-9.000	-9.000	1472.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	306.0	2.0	0	0.00	28.	998.	2	NAD-SFC	NoSubs
10	6	14	165	17	87.6	0.322	1.552	0.005	1519.	439.	-34.0	0.2940	0.52	0.22	2.60	8.0	15.0	305.2	2.0	0	0.00	37.	997.	2	NAD-SFC	NoSubs
10	6	14	165	18	42.2	0.350	1.222	0.006	1539.	497.	-90.6	0.2940	0.52	0.28	3.10	14.0	15.0	304.4	2.0	0	0.00	47.	998.	2	NAD-SFC	NoSubs
10	6	14	165	19	-4.2	0.370	-9.000	-9.000	-999.	541.	1086.3	0.2930	0.52	0.47	3.60	346.0	15.0	303.2	2.0	0	0.00	50.	998.	2	NAD-SFC	NoSubs
10	6	14	165	20	-47.7	0.468	-9.000	-9.000	-999.	767.	190.7	0.2160	0.52	1.00	5.10	289.0	15.0	301.6	2.0	0	0.00	54.	998.	2	NAD-SFC	NoSubs

10	6	14	165	21	-51.6	0.497	-9.000	-9.000	-999.	841.	212.3	0.1750	0.52	1.00	5.70	266.0	15.0	296.9	2.0	0	0.00	66.	999.	2	NAD-SFC	NoSubs
10	6	14	165	22	-46.3	0.443	-9.000	-9.000	-999.	710.	167.2	0.1750	0.52	1.00	5.10	267.0	15.0	294.9	2.0	0	0.00	69.	999.	2	NAD-SFC	NoSubs
10	6	14	165	23	-37.0	0.353	-9.000	-9.000	-999.	509.	105.7	0.1750	0.52	1.00	4.10	268.0	15.0	293.8	2.0	0	0.00	71.	999.	2	NAD-SFC	NoSubs
10	6	14	165	24	-27.7	0.263	-9.000	-9.000	-999.	329.	58.7	0.1750	0.52	1.00	3.10	269.0	15.0	293.0	2.0	0	0.00	73.	999.	2	NAD-SFC	NoSubs
10	6	15	166	1	-7.2	0.129	-9.000	-9.000	-999.	124.	26.5	0.2160	0.52	1.00	1.50	282.0	15.0	292.6	2.0	0	0.00	74.	999.	2	NAD-SFC	NoSubs
10	6	15	166	2	-1.5	0.080	-9.000	-9.000	-999.	55.	31.1	0.2160	0.52	1.00	0.50	291.0	15.0	292.2	2.0	0	0.00	74.	999.	3	NAD-SFC	NoSubs
10	6	15	166	3	-7.1	0.129	-9.000	-9.000	-999.	111.	26.8	0.2160	0.52	1.00	1.50	290.0	15.0	292.0	2.0	0	0.00	75.	999.	3	NAD-SFC	NoSubs
10	6	15	166	4	-7.2	0.129	-9.000	-9.000	-999.	111.	26.5	0.2160	0.52	1.00	1.50	294.0	15.0	291.8	2.0	0	0.00	75.	999.	2	NAD-SFC	NoSubs
10	6	15	166	5	-3.9	0.101	-9.000	-9.000	-999.	77.	23.3	0.2720	0.52	1.00	1.00	305.0	15.0	291.4	2.0	0	0.00	76.	999.	2	NAD-SFC	NoSubs
10	6	15	166	6	-0.4	0.049	-9.000	-9.000	-999.	26.	24.2	0.2930	0.52	0.45	0.50	342.0	15.0	291.2	2.0	0	0.00	78.	999.	2	NAD-SFC	NoSubs
10	6	15	166	7	41.1	0.202	0.575	0.009	164.	218.	-17.9	0.2930	0.52	0.27	1.50	347.0	15.0	293.2	2.0	0	0.00	70.	999.	2	NAD-SFC	NoSubs
10	6	15	166	8	86.3	0.111	0.963	0.010	368.	92.	-1.4	0.2930	0.52	0.21	0.50	332.0	15.0	294.8	2.0	0	0.00	66.	999.	2	NAD-SFC	NoSubs
10	6	15	166	9	125.7	-9.000	-9.000	-9.000	496.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.4	2.0	0	0.00	62.	998.	2	NAD-SFC	NoSubs
10	6	15	166	10	157.2	-9.000	-9.000	-9.000	613.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.4	2.0	0	0.00	56.	998.	2	NAD-SFC	NoSubs
10	6	15	166	11	179.1	-9.000	-9.000	-9.000	729.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.2	2.0	0	0.00	50.	997.	2	NAD-SFC	NoSubs
10	6	15	166	12	189.9	0.121	1.648	0.009	838.	101.	-1.0	0.2720	0.52	0.19	0.50	323.0	15.0	301.9	2.0	0	0.00	44.	996.	2	NAD-SFC	NoSubs
10	6	15	166	13	190.2	0.236	1.709	0.008	934.	275.	-6.1	0.2720	0.52	0.19	1.50	327.0	15.0	303.1	2.0	0	0.00	40.	996.	2	NAD-SFC	NoSubs
10	6	15	166	14	179.8	0.297	1.729	0.008	1023.	388.	-12.9	0.2930	0.52	0.19	2.10	337.0	15.0	304.0	2.0	0	0.00	37.	995.	2	NAD-SFC	NoSubs
10	6	15	166	15	158.3	0.340	1.697	0.007	1098.	477.	-22.1	0.2930	0.52	0.19	2.60	355.0	15.0	304.6	2.0	0	0.00	35.	995.	3	NAD-SFC	NoSubs
10	6	15	166	16	127.0	0.380	1.604	0.007	1155.	561.	-38.2	0.2930	0.52	0.20	3.10	334.0	15.0	304.9	2.0	0	0.00	33.	995.	2	NAD-SFC	NoSubs
10	6	15	166	17	87.0	0.371	1.428	0.007	1189.	541.	-51.9	0.1750	0.52	0.22	3.60	269.0	15.0	303.8	2.0	0	0.00	43.	996.	2	NAD-SFC	NoSubs
10	6	15	166	18	40.9	0.479	1.113	0.007	1200.	796.	-239.3	0.1750	0.52	0.28	5.10	246.0	15.0	301.2	2.0	0	0.00	53.	997.	2	NAD-SFC	NoSubs
10	6	15	166	19	-7.3	0.459	-9.000	-9.000	-999.	747.	1184.4	0.1750	0.52	0.47	5.10	255.0	15.0	297.9	2.0	0	0.00	60.	997.	3	NAD-SFC	NoSubs
10	6	15	166	20	-55.2	0.543	-9.000	-9.000	-999.	960.	258.4	0.1750	0.52	1.00	6.20	257.0	15.0	295.2	2.0	0	0.00	66.	998.	3	NAD-SFC	NoSubs
10	6	15	166	21	-45.3	0.443	-9.000	-9.000	-999.	717.	171.1	0.1750	0.52	1.00	5.10	260.0	15.0	293.8	2.0	0	0.00	68.	998.	3	NAD-SFC	NoSubs
10	6	15	166	22	-36.3	0.353	-9.000	-9.000	-999.	510.	108.1	0.1750	0.52	1.00	4.10	265.0	15.0	292.4	2.0	0	0.00	70.	999.	3	NAD-SFC	NoSubs
10	6	15	166	23	-27.2	0.263	-9.000	-9.000	-999.	329.	60.0	0.1750	0.52	1.00	3.10	261.0	15.0	291.4	2.0	0	0.00	70.	1000.	3	NAD-SFC	NoSubs
10	6	15	166	24	-20.2	0.218	-9.000	-9.000	-999.	246.	46.0	0.1750	0.52	1.00	2.60	263.0	15.0	290.8	2.0	0	0.00	70.	1000.	3	NAD-SFC	NoSubs
10	6	16	167	1	-13.0	0.173	-9.000	-9.000	-999.	173.	35.8	0.1750	0.52	1.00	2.10	260.0	15.0	290.2	2.0	0	0.00	69.	1001.	3	NAD-SFC	NoSubs
10	6	16	167	2	-20.2	0.218	-9.000	-9.000	-999.	245.	45.9	0.1750	0.52	1.00	2.60	257.0	15.0	290.0	2.0	0	0.00	69.	1001.	3	NAD-SFC	NoSubs
10	6	16	167	3	-20.3	0.218	-9.000	-9.000	-999.	245.	45.8	0.1750	0.52	1.00	2.60	260.0	15.0	289.4	2.0	0	0.00	70.	1001.	3	NAD-SFC	NoSubs
10	6	16	167	4	-20.3	0.218	-9.000	-9.000	-999.	245.	45.8	0.1750	0.52	1.00	2.60	260.0	15.0	288.8	2.0	0	0.00	71.	1001.	3	NAD-SFC	NoSubs
10	6	16	167	5	-20.3	0.218	-9.000	-9.000	-999.	245.	45.7	0.1750	0.52	1.00	2.60	269.0	15.0	288.2	2.0	0	0.00	70.	1002.	3	NAD-SFC	NoSubs
10	6	16	167	6	-2.2	0.136	-9.000	-9.000	-999.	122.	99.9	0.2160	0.52	0.45	1.50	281.0	15.0	288.6	2.0	0	0.00	69.	1002.	3	NAD-SFC	NoSubs
10	6	16	167	7	41.2	0.199	0.670	0.006	261.	213.	-17.1	0.2720	0.52	0.27	1.50	329.0	15.0	290.2	2.0	0	0.00	58.	1003.	3	NAD-SFC	NoSubs
10	6	16	167	8	85.7	0.165	1.044	0.006	475.	161.	-4.7	0.2720	0.52	0.21	1.00	317.0	15.0	291.2	2.0	0	0.00	54.	1003.	3	NAD-SFC	NoSubs
10	6	16	167	9	124.6	0.173	1.288	0.006	615.	173.	-3.7	0.2720	0.52	0.20	1.00	305.0	15.0	292.6	2.0	0	0.00	51.	1003.	3	NAD-SFC	NoSubs
10	6	16	167	10	155.5	0.170	1.493	0.005	767.	168.	-2.8	0.2160	0.52	0.19	1.00	299.0	15.0	294.0	2.0	0	0.00	47.	1003.	3	NAD-SFC	NoSubs
10	6	16	167	11	176.9	0.234	1.654	0.005	915.	271.	-6.5	0.2720	0.52	0.19	1.50	306.0	15.0	295.2	2.0	0	0.00	44.	1002.	3	NAD-SFC	NoSubs
10	6	16	167	12	187.3	0.235	1.775	0.005	1068.	274.	-6.2	0.2720	0.52	0.19	1.50	324.0	15.0	296.5	2.0	0	0.00	41.	1002.	3	NAD-SFC	NoSubs
10	6	16	167	13	187.5	0.298	1.852	0.005	1213.	391.	-12.6	0.2930	0.52	0.19	2.10	330.0	15.0	297.6	2.0	0	0.00	38.	1002.	3	NAD-SFC	NoSubs
10	6	16	167	14	177.0	0.344	1.877	0.006	1336.	484.	-20.5	0.2930	0.52	0.19	2.60	339.0	15.0	298.2	2.0	0	0.00	36.	1001.	3	NAD-SFC	NoSubs
10	6	16	167	15	155.6	0.432	1.839	0.007	1431.	681.	-46.2	0.2930	0.52	0.19	3.60	340.0	15.0	298.8	2.0	0	0.00	34.	1001.	2	NAD-SFC	NoSubs
10	6	16	167	16	124.2	0.470	1.734	0.008	1502.	772.	-74.6	0.2930	0.52	0.20	4.10	353.0	15.0	298.8	2.0	0	0.00	34.	1001.	2	NAD-SFC	NoSubs
10	6	16	167	17	84.9	0.459	1.543	0.009	1548.	747.	-101.7	0.2930	0.52	0.22	4.10	352.0	15.0	298.6	2.0	0	0.00	35.	1001.	2	NAD-SFC	NoSubs
10	6	16	167	18	39.6	0.303	1.202	0.009	1567.	419.	-62.5	0.2930	0.52	0.28	2.60	345.0	15.0	297.8	2.0	0	0.00	44.	1001.	2	NAD-SFC	NoSubs
10	6	16	167	19	-7.9	0.312	-9.000	-9.000	-999.	419.	345.7	0.2930	0.52	0.47	3.10	344.0	15.0	297.1	2.0	0	0.00	45.	1001.	2	NAD-SFC	NoSubs
10	6	16	167	20	-37.0	0.354	-9.000	-9.000	-999.	506.	107.5	0.2930	0.52	1.00	3.60	341.0	15.0	295.9	2.0	0	0.00	46.	1001.	2	NAD-SFC	NoSubs
10	6	16	167	21	-41.6	0.397	-9.000	-9.000	-999.	600.	134.3	0.2720	0.52	1.00	4.10	317.0	15.0	294.6	2.0	0	0.00	47.	1001.	2	NAD-SFC	NoSubs
10	6	16	167	22	-29.2	0.278	-9.000	-9.000	-999.	361.	65.6	0.2160	0.52	1.00	3.10	297.0	15.0	293.4	2.0	0	0.00	49.	1000.	2	NAD-SFC	NoSubs
10	6	16	167	23	-1.5	0.081	-9.000	-9.000	-999.	116.	31.4	0.2160	0.52	1.00	0.50	277.0	15.0	292.2	2.0	0	0.00	52.	1000.	2	NAD-SFC	NoSubs
10	6	16	167	24	-1.5	0.080	-9.000	-9.000	-999.	55.	31.2	0.1970	0.52	1.00	0.50	120.0	15.0	291.0	2.0	0	0.00	56.	1000.	2	NAD-SFC	NoSubs
10	6	17	168	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	290.0	2.0	0	0.00	60.	1001.	2	NAD-SFC	NoSubs
10	6	17	168	2	-1.5	0.081	-9.000	-9.000	-999.	56.	31.5	0.2160	0.52	1.00	0.50	289.0	15.0	289.1	2.0	0	0.00	64.	1001.	2	NAD-SFC	NoSubs
10	6	17	168	3	-14.4	0.183	-9.000	-9.000	-999.	188.	37.9	0.2160	0.52	1.00	2.10	287.0	15.0	288.6	2.0	0	0.00	62.	1002.	2	NAD-SFC	NoSubs
10	6	17	168	4	-29.8	0.278	-9.000	-9.000	-999.	352.	64.3	0.2160	0.52	1.00	3.10	288.0	15.0	287.9	2.0	0	0.00	60.	1002.	2	NAD-SFC	NoSubs
10	6	17	168	5	-29.9	0.278	-9.000	-9.000	-999.	351.	64.1	0.2160	0.52	1.00	3.10	299.0	15.0	287.2	2.0	0	0.00	61.	1002.	2	NAD-SFC	NoSubs
10	6	17	168	6	-5.6	0.203	-9.000	-9.000	-999.	222.	135.4	0.2720	0.52	0.45	2.10	302.0	15.0	287.0	2.0	0	0.00	62.	1003.	2	NAD-SFC	NoSubs
10	6	17	168	7	39.8	0.343	0.509	0.005	118.	482.	-90.6	0.2720	0.52	0.27	3.10	327.0	15.0	289.2	2.0	0	0.00	50.	1003.	2	NAD-SFC	NoSubs
10	6	17	168	8	85.0	0.168	0.869	0.007	276.	191.	-5.0	0.2930	0.52	0.22	1.00	333.0	15.0	291.2	2.0	0	0.00	43.	1003.	2	NAD-SFC	NoSubs
10	6	17	168	9	124.3	-9.000	-9.000	-9.000	453.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	292.8	2.0	0	0.00	39.	1003.	2	NAD-SFC	NoSubs
10	6	17	168	10	155.7	-9.000	-9.000	-9.000	658.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.5	2.0	0	0.00	35.	1002.	2	NAD-SFC	NoSubs
10	6	17	168	11	177.3	-9.000	-9.000	-9.000	864.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.0	2.0	0	0.00	32.	1002.	2	NAD-SFC	NoSubs
10	6	17	168	12	188.1	-9.000	-9.000	-9.000	1023.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.8	2.0	0	0.00	30.	1001.	2	NAD-SFC	NoSubs
10	6	17	168	13	188.4	-9.000	-9.000	-9.000	1137.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.1	2.0	0	0.00	27.	1000.	2	NAD-SFC	NoSubs
10	6	17	168	14	178.0	0.122	1.834	0.010	1236.	103.	-1.0	0.2930	0.52	0.19	0.50	337.0	15.0	300.0	2.0	0	0.00	25.	999.	2	NAD-SFC	NoSubs
10	6	17	168	15	156.5	0.234	1.794	0.010	1317.	272.	-7.3	0.2940	0.52	0.19	1.50	3.0	15.0	300.6	2.0	0	0.00	25.	999.	2	NAD-SFC	NoSubs
10	6	17	168	16	125.3	0.333	1.685	0.010	1363.	460.	-26.2	0.2940	0.52	0.20	2.60	8.0	15.0	300.8	2.0	0	0.00	26.	999.	2	NAD-SFC	NoSubs
10	6	17	168	17	85.9	0.368	1.495	0.010	1387.	536.	-51.6	0.2940	0.52	0.22	3.10	8.0	15.0	300.4	2.0	0	0.00	29.	998.	2	NAD-SFC	NoSubs
10	6	17	168	18	40.6	0.304	1.167	0.010	1397.	404.	-61.4	0.2940	0.52	0.28	2.60	22.0	15.0	299.4	2.0	0	0.00	40.	999.	2	NAD-SFC	NoSubs
10	6	17	168	19	-6.3	0.314	-9.000	-9.000	-999.	423.	440.0	0.2940	0.52	0.47	3.10	12.0	15.0	298.8	2.0	0	0.00	41.	999.	2	NAD-SFC	NoSubs
10	6	17	168	20	-25.5	0.252	-9.000	-9.000	-999.	305.	55.8	0.2930	0.52	1.00	2.60	342.0	15.0	297.4	2.0	0	0.00	43.	999.	2	NAD-SFC	NoSubs
10	6	17	168	21	-36.1	0.347	-9.000	-9.000	-999.	490.	102.9	0.2720	0.52	1.00	3.60	305.0	15.0	296.1	2.0	0	0.00	46.	1000.	2	NAD-SFC	NoSubs
10	6	17	168	22	-44.2	0.420	-9.000	-9.000	-999.	653.	149.4	0.2160	0.52	1.00	4.60	285.0	15.0	293.1	2.0	0	0.00	59.	1000.	2	NAD-SFC	NoSubs
10	6	17	168	23	-39.5	0.372	-9.000	-9.000	-999.	547.	116.6	0.2160	0.52	1.00	4.10	273.0	15.0	290.9	2.0	0	0.00	72.	1000.	2	NAD-SFC	NoSubs
10	6	17	168	24	-34.6	0.325	-9.000	-9.000	-999.	446.	88.7	0.2160	0.52	1.00	3.60	279.0	15.0	290.1	2.0	0	0.00	75.	1000.	2	NAD-SFC	NoSubs
10	6	18	169	1	-31.6	0.296	-9.000	-9.000	-999.	388.	73.5	0.2720	0.52	1.00	3.10	300.0	15.0	289.5	2.0	0	0.00	76.	1001.	2	NAD-SFC	NoSubs

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10  6 18 169  2  -24.9  0.246 -9.000 -9.000 -999.  294.     53.3  0.2720  0.52  1.00  2.60  322.0  15.0  289.2  2.0  0  0.00  76.  1001.  2 NAD-SFC NoSubs
10  6 18 169  3   -8.3  0.140 -9.000 -9.000 -999.  131.     29.4  0.2930  0.52  1.00  1.50  344.0  15.0  288.8  2.0  0  0.00  78.  1002.  2 NAD-SFC NoSubs
10  6 18 169  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  288.2  2.0  0  0.00  80.  1002.  2 NAD-SFC NoSubs
10  6 18 169  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  287.9  2.0  0  0.00  81.  1002.  2 NAD-SFC NoSubs
10  6 18 169  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.45  0.00    0.0  15.0  287.8  2.0  0  0.00  83.  1003.  2 NAD-SFC NoSubs
10  6 18 169  7   39.8  0.093  0.584  0.008  179.   68.     -1.8  0.2160  0.52  0.27  0.50  296.0  15.0  289.6  2.0  0  0.00  71.  1004.  2 NAD-SFC NoSubs
10  6 18 169  8   84.9 -9.000 -9.000 -9.000  324. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  291.2  2.0  0  0.00  64.  1004.  2 NAD-SFC NoSubs
10  6 18 169  9  124.2 -9.000 -9.000 -9.000  483. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  292.8  2.0  0  0.00  58.  1004.  2 NAD-SFC NoSubs
10  6 18 169 10  155.6 -9.000 -9.000 -9.000  643. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  294.4  2.0  0  0.00  53.  1004.  2 NAD-SFC NoSubs
10  6 18 169 11  177.3 -9.000 -9.000 -9.000  806. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  296.0  2.0  0  0.00  47.  1003.  2 NAD-SFC NoSubs
10  6 18 169 12  187.9 -9.000 -9.000 -9.000  950. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  297.2  2.0  0  0.00  43.  1002.  2 NAD-SFC NoSubs
10  6 18 169 13  187.9  0.123  1.775  0.008 1065.  104.     -1.0  0.2930  0.52  0.19  0.50  343.0  15.0  298.5  2.0  0  0.00  39.  1002.  3 NAD-SFC NoSubs
10  6 18 169 14  177.7  0.238  1.794  0.008 1162.  278.     -6.8  0.2930  0.52  0.19  1.50  352.0  15.0  299.4  2.0  0  0.00  37.  1001.  3 NAD-SFC NoSubs
10  6 18 169 15  156.4  0.340  1.757  0.008 1240.  476.    -22.4  0.2940  0.52  0.19  2.60    2.0  15.0  299.9  2.0  0  0.00  36.  1001.  3 NAD-SFC NoSubs
10  6 18 169 16  125.5  0.425  1.659  0.008 1300.  664.    -54.4  0.2930  0.52  0.20  3.60  360.0  15.0  300.0  2.0  0  0.00  37.  1000.  3 NAD-SFC NoSubs
10  6 18 169 17   86.5 -9.000 -9.000 -9.000 1338. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  299.8  2.0  0  0.00  40.  1001.  3 NAD-SFC NoSubs
10  6 18 169 18   41.8 -9.000 -9.000 -9.000 1353. -999. -99999.0  0.2235  0.52  0.28  0.00    0.0  15.0  299.1  2.0  0  0.00  51.  1001.  3 NAD-SFC NoSubs
10  6 18 169 19   -3.3  0.318 -9.000 -9.000 -999.  430.    865.0  0.2930  0.52  0.47  3.10  341.0  15.0  298.2  2.0  0  0.00  54.  1002.  3 NAD-SFC NoSubs
10  6 18 169 20  -38.0  0.373 -9.000 -9.000 -999.  546.    122.0  0.2160  0.52  1.00  4.10  290.0  15.0  296.0  2.0  0  0.00  63.  1003.  3 NAD-SFC NoSubs
10  6 18 169 21  -41.6  0.420 -9.000 -9.000 -999.  654.    159.7  0.2160  0.52  1.00  4.60  278.0  15.0  293.5  2.0  0  0.00  71.  1003.  4 NAD-SFC NoSubs
10  6 18 169 22  -38.6  0.373 -9.000 -9.000 -999.  548.    120.1  0.2160  0.52  1.00  4.10  280.0  15.0  291.6  2.0  0  0.00  75.  1004.  3 NAD-SFC NoSubs
10  6 18 169 23  -33.9  0.325 -9.000 -9.000 -999.  447.     91.1  0.2160  0.52  1.00  3.60  287.0  15.0  290.2  2.0  0  0.00  77.  1005.  3 NAD-SFC NoSubs
10  6 18 169 24  -29.8  0.297 -9.000 -9.000 -999.  389.     78.6  0.2720  0.52  1.00  3.10  300.0  15.0  289.5  2.0  0  0.00  78.  1005.  4 NAD-SFC NoSubs
10  6 19 170  1  -24.3  0.246 -9.000 -9.000 -999.  295.     55.2  0.2720  0.52  1.00  2.60  312.0  15.0  288.8  2.0  0  0.00  79.  1006.  4 NAD-SFC NoSubs
10  6 19 170  2  -23.7  0.247 -9.000 -9.000 -999.  294.     56.8  0.2720  0.52  1.00  2.60  315.0  15.0  288.2  2.0  0  0.00  80.  1006.  5 NAD-SFC NoSubs
10  6 19 170  3  -23.8  0.247 -9.000 -9.000 -999.  294.     56.7  0.2720  0.52  1.00  2.60  308.0  15.0  287.8  2.0  0  0.00  81.  1007.  5 NAD-SFC NoSubs
10  6 19 170  4  -15.3  0.196 -9.000 -9.000 -999.  209.     44.2  0.2720  0.52  1.00  2.10  308.0  15.0  287.2  2.0  0  0.00  82.  1007.  5 NAD-SFC NoSubs
10  6 19 170  5   -7.6  0.137 -9.000 -9.000 -999.  122.     30.1  0.2720  0.52  1.00  1.50  324.0  15.0  286.8  2.0  0  0.00  82.  1007.  5 NAD-SFC NoSubs
10  6 19 170  6   -2.8  0.211 -9.000 -9.000 -999.  233.    303.2  0.2930  0.52  0.45  2.10  346.0  15.0  286.8  2.0  0  0.00  80.  1008.  4 NAD-SFC NoSubs
10  6 19 170  7   40.6  0.153  0.773  0.008  409.  145.     -8.0  0.2930  0.52  0.27  1.00  353.0  15.0  287.2  2.0  0  0.00  73.  1008.  4 NAD-SFC NoSubs
10  6 19 170  8   84.7 -9.000 -9.000 -9.000  502. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  288.5  2.0  0  0.00  69.  1008.  3 NAD-SFC NoSubs
10  6 19 170  9  123.6 -9.000 -9.000 -9.000  614. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  289.9  2.0  0  0.00  64.  1007.  3 NAD-SFC NoSubs
10  6 19 170 10  154.6 -9.000 -9.000 -9.000  729. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  291.5  2.0  0  0.00  60.  1007.  3 NAD-SFC NoSubs
10  6 19 170 11  176.3 -9.000 -9.000 -9.000  841. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  293.2  2.0  0  0.00  56.  1007.  2 NAD-SFC NoSubs
10  6 19 170 12  187.0 -9.000 -9.000 -9.000  947. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  294.8  2.0  0  0.00  52.  1006.  2 NAD-SFC NoSubs
10  6 19 170 13  187.3  0.123  1.763  0.009 1051.  103.     -1.0  0.2930  0.52  0.19  0.50  346.0  15.0  296.0  2.0  0  0.00  47.  1005.  2 NAD-SFC NoSubs
10  6 19 170 14  177.0  0.238  1.779  0.010 1143.  278.     -6.8  0.2940  0.52  0.19  1.50    2.0  15.0  297.1  2.0  0  0.00  43.  1005.  2 NAD-SFC NoSubs
10  6 19 170 15  155.6 -9.000 -9.000 -9.000 1218. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  297.8  2.0  0  0.00  41.  1004.  3 NAD-SFC NoSubs
10  6 19 170 16  124.8 -9.000 -9.000 -9.000 1275. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  298.0  2.0  0  0.00  41.  1004.  3 NAD-SFC NoSubs
10  6 19 170 17   85.8 -9.000 -9.000 -9.000 1311. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  297.8  2.0  0  0.00  43.  1005.  3 NAD-SFC NoSubs
10  6 19 170 18   41.2  0.350  1.151  0.011 1328.  496.    -92.9  0.2940  0.52  0.28  3.10    1.0  15.0  297.2  2.0  0  0.00  53.  1005.  3 NAD-SFC NoSubs
10  6 19 170 19   -6.7  0.421 -9.000 -9.000 -999.  656.    998.6  0.2930  0.52  0.46  4.10  354.0  15.0  295.8  2.0  0  0.00  58.  1005.  3 NAD-SFC NoSubs
10  6 19 170 20  -41.8  0.406 -9.000 -9.000 -999.  621.    143.6  0.2930  0.52  1.00  4.10  338.0  15.0  293.8  2.0  0  0.00  66.  1005.  3 NAD-SFC NoSubs
10  6 19 170 21  -42.0  0.406 -9.000 -9.000 -999.  621.    142.8  0.2930  0.52  1.00  4.10  336.0  15.0  292.1  2.0  0  0.00  72.  1006.  3 NAD-SFC NoSubs
10  6 19 170 22  -36.8  0.355 -9.000 -9.000 -999.  508.    108.6  0.2930  0.52  1.00  3.60  336.0  15.0  291.2  2.0  0  0.00  76.  1006.  3 NAD-SFC NoSubs
10  6 19 170 23  -36.9  0.354 -9.000 -9.000 -999.  507.    108.3  0.2930  0.52  1.00  3.60  334.0  15.0  290.5  2.0  0  0.00  78.  1006.  3 NAD-SFC NoSubs
10  6 19 170 24  -36.2  0.347 -9.000 -9.000 -999.  490.    103.3  0.2720  0.52  1.00  3.60  318.0  15.0  289.4  2.0  0  0.00  80.  1006.  3 NAD-SFC NoSubs
10  6 20 171  1  -31.1  0.297 -9.000 -9.000 -999.  389.     75.2  0.2720  0.52  1.00  3.10  321.0  15.0  288.2  2.0  0  0.00  79.  1006.  3 NAD-SFC NoSubs
10  6 20 171  2  -25.3  0.252 -9.000 -9.000 -999.  304.     56.7  0.2930  0.52  1.00  2.60  332.0  15.0  287.5  2.0  0  0.00  79.  1007.  4 NAD-SFC NoSubs
10  6 20 171  3  -16.3  0.200 -9.000 -9.000 -999.  216.     44.3  0.2930  0.52  1.00  2.10  331.0  15.0  287.0  2.0  0  0.00  79.  1007.  4 NAD-SFC NoSubs
10  6 20 171  4   -8.1  0.140 -9.000 -9.000 -999.  126.     30.2  0.2930  0.52  1.00  1.50  331.0  15.0  286.6  2.0  0  0.00  79.  1007.  4 NAD-SFC NoSubs
10  6 20 171  5   -3.9  0.101 -9.000 -9.000 -999.   77.     23.3  0.2720  0.52  1.00  1.00  328.0  15.0  286.1  2.0  0  0.00  80.  1007.  3 NAD-SFC NoSubs
10  6 20 171  6   -1.7  0.096 -9.000 -9.000 -999.   71.     45.5  0.2940  0.52  0.45  1.00    1.0  15.0  286.1  2.0  0  0.00  78.  1008.  3 NAD-SFC NoSubs
10  6 20 171  7   40.0  0.202  0.664  0.007  262.  217.    -18.4  0.2930  0.52  0.27  1.50  347.0  15.0  287.2  2.0  0  0.00  70.  1008.  3 NAD-SFC NoSubs
10  6 20 171  8   83.9 -9.000 -9.000 -9.000  411. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  288.6  2.0  0  0.00  65.  1008.  2 NAD-SFC NoSubs
10  6 20 171  9  123.3 -9.000 -9.000 -9.000  547. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  290.2  2.0  0  0.00  60.  1007.  2 NAD-SFC NoSubs
10  6 20 171 10  154.6 -9.000 -9.000 -9.000  688. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  292.0  2.0  0  0.00  53.  1006.  2 NAD-SFC NoSubs
10  6 20 171 11  176.4 -9.000 -9.000 -9.000  844. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  293.5  2.0  0  0.00  49.  1006.  2 NAD-SFC NoSubs
10  6 20 171 12  187.1 -9.000 -9.000 -9.000  982. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  295.0  2.0  0  0.00  45.  1005.  2 NAD-SFC NoSubs
10  6 20 171 13  187.4  0.121  1.781  0.009 1082.  101.     -1.0  0.2720  0.52  0.19  0.50  306.0  15.0  296.2  2.0  0  0.00  42.  1004.  2 NAD-SFC NoSubs
10  6 20 171 14  177.1  0.234  1.794  0.010 1169.  271.     -6.5  0.2720  0.52  0.19  1.50  327.0  15.0  297.2  2.0  0  0.00  40.  1003.  2 NAD-SFC NoSubs
10  6 20 171 15  155.8  0.292  1.753  0.010 1240.  379.    -14.3  0.2930  0.52  0.19  2.10  354.0  15.0  298.0  2.0  0  0.00  39.  1003.  2 NAD-SFC NoSubs
10  6 20 171 16  124.7  0.379  1.652  0.011 1294.  559.    -38.9  0.2930  0.52  0.20  3.10  356.0  15.0  298.2  2.0  0  0.00  40.  1002.  2 NAD-SFC NoSubs
10  6 20 171 17   85.5 -9.000 -9.000 -9.000 1330. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  298.1  2.0  0  0.00  42.  1002.  2 NAD-SFC NoSubs
10  6 20 171 18   40.5 -9.000 -9.000 -9.000 1343. -999. -99999.0  0.2235  0.52  0.28  0.00    0.0  15.0  297.6  2.0  0  0.00  51.  1002.  2 NAD-SFC NoSubs
10  6 20 171 19   -6.5  0.314 -9.000 -9.000 -999.  422.    427.9  0.2930  0.52  0.46  3.10  356.0  15.0  297.0  2.0  0  0.00  53.  1002.  2 NAD-SFC NoSubs
10  6 20 171 20  -30.9  0.303 -9.000 -9.000 -999.  401.     80.8  0.2930  0.52  1.00  3.10  346.0  15.0  295.9  2.0  0  0.00  55.  1003.  3 NAD-SFC NoSubs
10  6 20 171 21  -15.7  0.196 -9.000 -9.000 -999.  213.     42.7  0.2720  0.52  1.00  2.10  328.0  15.0  294.8  2.0  0  0.00  58.  1003.  3 NAD-SFC NoSubs
10  6 20 171 22   -7.9  0.137 -9.000 -9.000 -999.  122.     29.2  0.2720  0.52  1.00  1.50  301.0  15.0  293.8  2.0  0  0.00  61.  1003.  3 NAD-SFC NoSubs
10  6 20 171 23  -12.9  0.173 -9.000 -9.000 -999.  173.     35.9  0.1750  0.52  1.00  2.10  256.0  15.0  292.2  2.0  0  0.00  66.  1003.  3 NAD-SFC NoSubs
10  6 20 171 24  -13.0  0.173 -9.000 -9.000 -999.  173.     35.8  0.1750  0.52  1.00  2.10  256.0  15.0  291.0  2.0  0  0.00  71.  1002.  3 NAD-SFC NoSubs
10  6 21 172  1  -14.2  0.183 -9.000 -9.000 -999.  188.     38.6  0.2160  0.52  1.00  2.10  277.0  15.0  290.2  2.0  0  0.00  72.  1002.  3 NAD-SFC NoSubs
10  6 21 172  2  -24.7  0.246 -9.000 -9.000 -999.  293.     54.1  0.2720  0.52  1.00  2.60  300.0  15.0  289.6  2.0  0  0.00  73.  1003.  3 NAD-SFC NoSubs
10  6 21 172  3  -24.7  0.246 -9.000 -9.000 -999.  293.     54.0  0.2720  0.52  1.00  2.60  317.0  15.0  288.9  2.0  0  0.00  75.  1003.  3 NAD-SFC NoSubs
10  6 21 172  4  -15.8  0.195 -9.000 -9.000 -999.  208.     42.1  0.2720  0.52  1.00  2.10  324.0  15.0  288.2  2.0  0  0.00  77.  1003.  3 NAD-SFC NoSubs
10  6 21 172  5   -3.9  0.100 -9.000 -9.000 -999.   80.     23.3  0.2720  0.52  1.00  1.00  322.0  15.0  287.8  2.0  0  0.00  79.  1003.  3 NAD-SFC NoSubs
10  6 21 172  6   18.3 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.45  0.00    0.0  15.0  287.8  2.0  0  0.00  80.  1004.  3 NAD-SFC NoSubs
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10  6 21 172  7   40.5 -9.000 -9.000 -9.000  194. -999. -99999.0 0.2235  0.52  0.27  0.00   0.0  15.0 289.6  2.0   0  0.00  69. 1004.   3 NAD-SFC NoSubs
10  6 21 172  8   85.3 -9.000 -9.000 -9.000  346. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 291.5  2.0   0  0.00  62. 1004.   3 NAD-SFC NoSubs
10  6 21 172  9  124.0 -9.000 -9.000 -9.000  543. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 293.2  2.0   0  0.00  55. 1003.   2 NAD-SFC NoSubs
10  6 21 172 10  155.5 -9.000 -9.000 -9.000  774. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 294.9  2.0   0  0.00  49. 1003.   2 NAD-SFC NoSubs
10  6 21 172 11  177.3 -9.000 -9.000 -9.000 1006. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 296.2  2.0   0  0.00  45. 1003.   2 NAD-SFC NoSubs
10  6 21 172 12  188.1 -9.000 -9.000 -9.000 1159. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 297.6  2.0   0  0.00  41. 1002.   2 NAD-SFC NoSubs
10  6 21 172 13  188.4 -9.000 -9.000 -9.000 1296. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 298.8  2.0   0  0.00  37. 1001.   2 NAD-SFC NoSubs
10  6 21 172 14  178.2 -9.000 -9.000 -9.000 1373. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 299.6  2.0   0  0.00  35. 1001.   2 NAD-SFC NoSubs
10  6 21 172 15  156.8  0.182  1.840  0.010 1419.  186.     -3.4 0.2940  0.52  0.19  1.00  11.0  15.0 300.2  2.0   0  0.00  34. 1000.   2 NAD-SFC NoSubs
10  6 21 172 16  125.9  0.286  1.724  0.010 1454.  368.    -16.6 0.2940  0.52  0.20  2.10  22.0  15.0 300.6  2.0   0  0.00  33. 1000.   2 NAD-SFC NoSubs
10  6 21 172 17   86.7  0.368  1.531  0.010 1477.  536.    -51.3 0.2940  0.52  0.22  3.10  21.0  15.0 300.5  2.0   0  0.00  34. 1000.   2 NAD-SFC NoSubs
10  6 21 172 18   41.6  0.304  1.201  0.010 1487.  405.    -60.3 0.2940  0.52  0.28  2.60  28.0  15.0 299.8  2.0   0  0.00  45. 1000.   2 NAD-SFC NoSubs
10  6 21 172 19   -3.8  0.263 -9.000 -9.000 -999.  325.    431.4 0.2940  0.52  0.46  2.60  18.0  15.0 299.2  2.0   0  0.00  46. 1001.   2 NAD-SFC NoSubs
10  6 21 172 20  -21.8  0.231 -9.000 -9.000 -999.  267.     50.3 0.2160  0.52  1.00  2.60 290.0  15.0 298.1  2.0   0  0.00  49. 1001.   3 NAD-SFC NoSubs
10  6 21 172 21  -55.7  0.543 -9.000 -9.000 -999.  961.    257.0 0.1750  0.52  1.00  6.20 267.0  15.0 293.8  2.0   0  0.00  66. 1002.   3 NAD-SFC NoSubs
10  6 21 172 22  -48.3  0.468 -9.000 -9.000 -999.  773.    189.2 0.2160  0.52  1.00  5.10 271.0  15.0 291.6  2.0   0  0.00  72. 1002.   3 NAD-SFC NoSubs
10  6 21 172 23  -36.6  0.353 -9.000 -9.000 -999.  513.    107.4 0.1750  0.52  1.00  4.10 258.0  15.0 290.6  2.0   0  0.00  75. 1003.   3 NAD-SFC NoSubs
10  6 21 172 24  -27.4  0.263 -9.000 -9.000 -999.  329.     59.6 0.1750  0.52  1.00  3.10 268.0  15.0 289.8  2.0   0  0.00  78. 1003.   3 NAD-SFC NoSubs
10  6 22 173  1   -7.9  0.137 -9.000 -9.000 -999.  132.     29.0 0.2720  0.52  1.00  1.50 317.0  15.0 289.4  2.0   0  0.00  79. 1004.   3 NAD-SFC NoSubs
10  6 22 173  2   -3.5  0.096 -9.000 -9.000 -999.   72.     22.3 0.2130  0.52  1.00  1.00 112.0  15.0 289.1  2.0   0  0.00  80. 1004.   3 NAD-SFC NoSubs
10  6 22 173  3   -1.4  0.079 -9.000 -9.000 -999.   53.     30.8 0.1810  0.52  1.00  0.50 165.0  15.0 289.2  2.0   0  0.00  78. 1004.   3 NAD-SFC NoSubs
10  6 22 173  4   -1.4  0.079 -9.000 -9.000 -999.   54.     31.0 0.1950  0.52  1.00  0.50 211.0  15.0 288.8  2.0   0  0.00  80. 1005.   3 NAD-SFC NoSubs
10  6 22 173  5   -1.5  0.080 -9.000 -9.000 -999.   55.     31.3 0.1950  0.52  1.00  0.50 238.0  15.0 288.0  2.0   0  0.00  83. 1005.   2 NAD-SFC NoSubs
10  6 22 173  6   -0.5  0.050 -9.000 -9.000 -999.   27.     22.6 0.2160  0.52  0.45  0.50 284.0  15.0 287.9  2.0   0  0.00  84. 1005.   2 NAD-SFC NoSubs
10  6 22 173  7   39.4  0.098  0.595  0.008  192.   73.     -2.1 0.2720  0.52  0.27  0.50 323.0  15.0 290.1  2.0   0  0.00  73. 1006.   2 NAD-SFC NoSubs
10  6 22 173  8   84.5 -9.000 -9.000 -9.000  364. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 291.8  2.0   0  0.00  67. 1006.   2 NAD-SFC NoSubs
10  6 22 173  9  124.1 -9.000 -9.000 -9.000  519. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 293.6  2.0   0  0.00  61. 1005.   2 NAD-SFC NoSubs
10  6 22 173 10  155.6 -9.000 -9.000 -9.000  664. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 295.5  2.0   0  0.00  54. 1005.   2 NAD-SFC NoSubs
10  6 22 173 11  177.6 -9.000 -9.000 -9.000  781. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 297.2  2.0   0  0.00  48. 1005.   2 NAD-SFC NoSubs
10  6 22 173 12  188.6 -9.000 -9.000 -9.000  891. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 299.0  2.0   0  0.00  42. 1004.   2 NAD-SFC NoSubs
10  6 22 173 13  189.1 -9.000 -9.000 -9.000 1000. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 300.2  2.0   0  0.00  39. 1003.   2 NAD-SFC NoSubs
10  6 22 173 14  179.0 -9.000 -9.000 -9.000 1142. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 301.2  2.0   0  0.00  37. 1002.   2 NAD-SFC NoSubs
10  6 22 173 15  157.8  0.120  1.768  0.010 1254.  100.     -1.0 0.2940  0.52  0.19  0.50  25.0  15.0 302.0  2.0   0  0.00  35. 1001.   2 NAD-SFC NoSubs
10  6 22 173 16  126.9  0.170  1.680  0.011 1336.  169.     -3.5 0.2470  0.52  0.20  1.00  34.0  15.0 302.4  2.0   0  0.00  34. 1001.   2 NAD-SFC NoSubs
10  6 22 173 17   87.8  0.211  1.496  0.010 1364.  233.     -9.6 0.2470  0.52  0.22  1.50  30.0  15.0 302.5  2.0   0  0.00  35. 1001.   2 NAD-SFC NoSubs
10  6 22 173 18   42.8  0.196  1.182  0.010 1375.  208.    -15.6 0.2470  0.52  0.28  1.50  37.0  15.0 302.1  2.0   0  0.00  41. 1001.   2 NAD-SFC NoSubs
10  6 22 173 19   -1.3  0.215 -9.000 -9.000 -999.  239.    659.6 0.2940  0.52  0.46  2.10  23.0  15.0 301.4  2.0   0  0.00  44. 1001.   2 NAD-SFC NoSubs
10  6 22 173 20  -32.7  0.326 -9.000 -9.000 -999.  446.     94.3 0.2160  0.52  1.00  3.60 297.0  15.0 299.9  2.0   0  0.00  48. 1001.   3 NAD-SFC NoSubs
10  6 22 173 21  -44.0  0.420 -9.000 -9.000 -999.  653.    150.5 0.2160  0.52  1.00  4.60 279.0  15.0 295.2  2.0   0  0.00  66. 1002.   2 NAD-SFC NoSubs
10  6 22 173 22  -39.3  0.372 -9.000 -9.000 -999.  547.    117.6 0.2160  0.52  1.00  4.10 282.0  15.0 293.2  2.0   0  0.00  71. 1002.   2 NAD-SFC NoSubs
10  6 22 173 23  -34.4  0.325 -9.000 -9.000 -999.  447.     89.3 0.2160  0.52  1.00  3.60 294.0  15.0 292.2  2.0   0  0.00  72. 1002.   2 NAD-SFC NoSubs
10  6 22 173 24  -22.3  0.230 -9.000 -9.000 -999.  270.     49.0 0.2160  0.52  1.00  2.60 288.0  15.0 291.6  2.0   0  0.00  72. 1002.   2 NAD-SFC NoSubs
10  6 23 174  1   -1.7  0.084 -9.000 -9.000 -999.   81.     32.0 0.2930  0.52  1.00  0.50 345.0  15.0 291.4  2.0   0  0.00  73. 1002.   2 NAD-SFC NoSubs
10  6 23 174  2   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4 0.2090  0.52  1.00  0.50  62.0  15.0 291.1  2.0   0  0.00  73. 1002.   2 NAD-SFC NoSubs
10  6 23 174  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 290.9  2.0   0  0.00  73. 1002.   2 NAD-SFC NoSubs
10  6 23 174  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 290.8  2.0   0  0.00  74. 1002.   2 NAD-SFC NoSubs
10  6 23 174  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 290.4  2.0   0  0.00  75. 1002.   2 NAD-SFC NoSubs
10  6 23 174  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  0.46  0.00   0.0  15.0 290.2  2.0   0  0.00  77. 1003.   2 NAD-SFC NoSubs
10  6 23 174  7   39.6 -9.000 -9.000 -9.000  147. -999. -99999.0 0.2235  0.52  0.27  0.00   0.0  15.0 291.6  2.0   0  0.00  71. 1003.   2 NAD-SFC NoSubs
10  6 23 174  8   85.1 -9.000 -9.000 -9.000  303. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 294.0  2.0   0  0.00  63. 1003.   2 NAD-SFC NoSubs
10  6 23 174  9  124.7 -9.000 -9.000 -9.000  460. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 295.9  2.0   0  0.00  59. 1003.   2 NAD-SFC NoSubs
10  6 23 174 10  156.4 -9.000 -9.000 -9.000  607. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 297.8  2.0   0  0.00  54. 1003.   2 NAD-SFC NoSubs
10  6 23 174 11  178.5 -9.000 -9.000 -9.000  753. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 299.5  2.0   0  0.00  49. 1002.   2 NAD-SFC NoSubs
10  6 23 174 12  189.6 -9.000 -9.000 -9.000  888. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 301.1  2.0   0  0.00  45. 1001.   2 NAD-SFC NoSubs
10  6 23 174 13  190.1 -9.000 -9.000 -9.000  992. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 302.4  2.0   0  0.00  40. 1001.   2 NAD-SFC NoSubs
10  6 23 174 14  180.0  0.122  1.745  0.010 1055.  103.     -1.0 0.2930  0.52  0.19  0.50 350.0  15.0 303.2  2.0   0  0.00  37. 1000.   2 NAD-SFC NoSubs
10  6 23 174 15  158.8 -9.000 -9.000 -9.000 1108. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 303.9  2.0   0  0.00  36. 1000.   2 NAD-SFC NoSubs
10  6 23 174 16  127.8  0.287  1.602  0.009 1148.  368.    -16.4 0.2940  0.52  0.20  2.10  13.0  15.0 304.1  2.0   0  0.00  35. 1000.   2 NAD-SFC NoSubs
10  6 23 174 17   88.7  0.323  1.429  0.009 1174.  440.    -33.8 0.2940  0.52  0.22  2.60  12.0  15.0 303.9  2.0   0  0.00  37. 1000.   2 NAD-SFC NoSubs
10  6 23 174 18   43.7  0.259  1.132  0.009 1186.  318.    -35.5 0.2940  0.52  0.28  2.10  21.0  15.0 303.4  2.0   0  0.00  46. 1000.   2 NAD-SFC NoSubs
10  6 23 174 19   -0.1  0.219 -9.000 -9.000 -999.  247.   8888.0 0.2940  0.52  0.46  2.10   4.0  15.0 302.8  2.0   0  0.00  47. 1000.   2 NAD-SFC NoSubs
10  6 23 174 20  -37.2  0.373 -9.000 -9.000 -999.  546.    124.2 0.2160  0.52  1.00  4.10 273.0  15.0 301.2  2.0   0  0.00  50. 1001.   3 NAD-SFC NoSubs
10  6 23 174 21  -50.5  0.498 -9.000 -9.000 -999.  842.    217.9 0.1750  0.52  1.00  5.70 258.0  15.0 296.6  2.0   0  0.00  66. 1001.   3 NAD-SFC NoSubs
10  6 23 174 22  -45.2  0.443 -9.000 -9.000 -999.  711.    171.9 0.1750  0.52  1.00  5.10 261.0  15.0 295.0  2.0   0  0.00  68. 1002.   3 NAD-SFC NoSubs
10  6 23 174 23  -33.3  0.325 -9.000 -9.000 -999.  455.     92.4 0.2160  0.52  1.00  3.60 281.0  15.0 294.2  2.0   0  0.00  71. 1002.   3 NAD-SFC NoSubs
10  6 23 174 24  -30.4  0.297 -9.000 -9.000 -999.  388.     76.7 0.2720  0.52  1.00  3.10 318.0  15.0 293.9  2.0   0  0.00  72. 1003.   3 NAD-SFC NoSubs
10  6 24 175  1  -36.4  0.355 -9.000 -9.000 -999.  507.    109.5 0.2930  0.52  1.00  3.60 354.0  15.0 293.6  2.0   0  0.00  72. 1003.   3 NAD-SFC NoSubs
10  6 24 175  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 293.0  2.0   0  0.00  74. 1004.   3 NAD-SFC NoSubs
10  6 24 175  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 292.2  2.0   0  0.00  75. 1004.   3 NAD-SFC NoSubs
10  6 24 175  4   -4.0  0.102 -9.000 -9.000 -999.   78.     23.7 0.2930  0.52  1.00  1.00 351.0  15.0 291.6  2.0   0  0.00  76. 1004.   3 NAD-SFC NoSubs
10  6 24 175  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 291.0  2.0   0  0.00  78. 1004.   3 NAD-SFC NoSubs
10  6 24 175  6   -1.6  0.096 -9.000 -9.000 -999.   72.     50.1 0.2940  0.52  0.46  1.00   7.0  15.0 290.8  2.0   0  0.00  78. 1005.   3 NAD-SFC NoSubs
10  6 24 175  7   40.6  0.202  0.654  0.009  247.  218.    -18.2 0.2940  0.52  0.27  1.50   5.0  15.0 291.8  2.0   0  0.00  68. 1005.   3 NAD-SFC NoSubs
10  6 24 175  8   85.3 -9.000 -9.000 -9.000  368. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 293.2  2.0   0  0.00  63. 1005.   3 NAD-SFC NoSubs
10  6 24 175  9  124.5 -9.000 -9.000 -9.000  498. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 294.9  2.0   0  0.00  58. 1005.   3 NAD-SFC NoSubs
10  6 24 175 10  155.9 -9.000 -9.000 -9.000  626. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 296.8  2.0   0  0.00  53. 1004.   3 NAD-SFC NoSubs
10  6 24 175 11  177.8 -9.000 -9.000 -9.000  763. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 298.4  2.0   0  0.00  49. 1004.   3 NAD-SFC NoSubs
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10	6	24	175	12	188.9	-9.000	-9.000	-9.000	891.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.8	2.0	0	0.00	46.	1003.	2	NAD-SFC	NoSubs
10	6	24	175	13	189.4	0.123	1.750	0.006	1012.	104.	-1.0	0.2930	0.52	0.19	0.50	337.0	15.0	300.9	2.0	0	0.00	44.	1002.	2	NAD-SFC	NoSubs
10	6	24	175	14	179.3	0.184	1.783	0.007	1131.	190.	-3.1	0.2930	0.52	0.19	1.00	354.0	15.0	301.8	2.0	0	0.00	42.	1002.	2	NAD-SFC	NoSubs
10	6	24	175	15	158.1	-9.000	-9.000	-9.000	1228.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.4	2.0	0	0.00	40.	1001.	2	NAD-SFC	NoSubs
10	6	24	175	16	127.3	0.379	1.667	0.007	1301.	561.	-38.3	0.2930	0.52	0.20	3.10	356.0	15.0	302.9	2.0	0	0.00	35.	1001.	2	NAD-SFC	NoSubs
10	6	24	175	17	88.1	-9.000	-9.000	-9.000	1346.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	302.5	2.0	0	0.00	39.	1000.	2	NAD-SFC	NoSubs
10	6	24	175	18	43.0	-9.000	-9.000	-9.000	1363.	-999.	-99999.0	0.2235	0.52	0.28	0.00	0.0	15.0	301.8	2.0	0	0.00	50.	1001.	2	NAD-SFC	NoSubs
10	6	24	175	19	-2.7	0.372	-9.000	-9.000	-999.	545.	1733.9	0.2930	0.52	0.46	3.60	356.0	15.0	300.6	2.0	0	0.00	53.	1001.	2	NAD-SFC	NoSubs
10	6	24	175	20	-29.8	0.297	-9.000	-9.000	-999.	391.	78.3	0.2720	0.52	1.00	3.10	329.0	15.0	299.8	2.0	0	0.00	54.	1001.	3	NAD-SFC	NoSubs
10	6	24	175	21	-47.4	0.468	-9.000	-9.000	-999.	768.	193.0	0.2160	0.52	1.00	5.10	271.0	15.0	297.2	2.0	0	0.00	62.	1001.	3	NAD-SFC	NoSubs
10	6	24	175	22	-45.3	0.443	-9.000	-9.000	-999.	709.	171.4	0.1750	0.52	1.00	5.10	258.0	15.0	294.2	2.0	0	0.00	72.	1001.	3	NAD-SFC	NoSubs
10	6	24	175	23	-40.9	0.398	-9.000	-9.000	-999.	604.	137.8	0.1750	0.52	1.00	4.60	266.0	15.0	293.2	2.0	0	0.00	75.	1002.	3	NAD-SFC	NoSubs
10	6	24	175	24	-33.5	0.325	-9.000	-9.000	-999.	449.	91.9	0.2160	0.52	1.00	3.60	293.0	15.0	292.6	2.0	0	0.00	78.	1002.	3	NAD-SFC	NoSubs
10	6	25	176	1	-24.5	0.246	-9.000	-9.000	-999.	296.	54.4	0.2720	0.52	1.00	2.60	313.0	15.0	292.0	2.0	0	0.00	80.	1002.	3	NAD-SFC	NoSubs
10	6	25	176	2	-24.5	0.246	-9.000	-9.000	-999.	293.	54.3	0.2720	0.52	1.00	2.60	328.0	15.0	291.8	2.0	0	0.00	80.	1002.	3	NAD-SFC	NoSubs
10	6	25	176	3	-16.1	0.200	-9.000	-9.000	-999.	216.	44.7	0.2930	0.52	1.00	2.10	337.0	15.0	291.5	2.0	0	0.00	80.	1003.	4	NAD-SFC	NoSubs
10	6	25	176	4	-7.7	0.137	-9.000	-9.000	-999.	122.	29.6	0.2720	0.52	1.00	1.50	329.0	15.0	291.2	2.0	0	0.00	81.	1003.	4	NAD-SFC	NoSubs
10	6	25	176	5	-3.9	0.100	-9.000	-9.000	-999.	76.	23.3	0.2720	0.52	1.00	1.00	327.0	15.0	290.8	2.0	0	0.00	82.	1003.	3	NAD-SFC	NoSubs
10	6	25	176	6	-2.9	0.147	-9.000	-9.000	-999.	136.	98.9	0.2930	0.52	0.46	1.50	336.0	15.0	290.8	2.0	0	0.00	82.	1004.	3	NAD-SFC	NoSubs
10	6	25	176	7	40.4	0.202	0.684	0.007	283.	218.	-18.2	0.2930	0.52	0.28	1.50	339.0	15.0	291.6	2.0	0	0.00	74.	1004.	3	NAD-SFC	NoSubs
10	6	25	176	8	85.0	-9.000	-9.000	-9.000	450.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	292.8	2.0	0	0.00	70.	1003.	3	NAD-SFC	NoSubs
10	6	25	176	9	124.1	-9.000	-9.000	-9.000	577.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	294.1	2.0	0	0.00	65.	1003.	3	NAD-SFC	NoSubs
10	6	25	176	10	155.4	-9.000	-9.000	-9.000	714.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.8	2.0	0	0.00	61.	1003.	3	NAD-SFC	NoSubs
10	6	25	176	11	177.3	-9.000	-9.000	-9.000	858.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.5	2.0	0	0.00	55.	1002.	3	NAD-SFC	NoSubs
10	6	25	176	12	188.3	-9.000	-9.000	-9.000	988.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.0	2.0	0	0.00	51.	1001.	3	NAD-SFC	NoSubs
10	6	25	176	13	188.8	-9.000	-9.000	-9.000	1099.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.2	2.0	0	0.00	46.	1000.	3	NAD-SFC	NoSubs
10	6	25	176	14	178.9	0.122	1.815	0.008	1194.	103.	-1.0	0.2930	0.52	0.19	0.50	349.0	15.0	301.2	2.0	0	0.00	42.	1000.	3	NAD-SFC	NoSubs
10	6	25	176	15	158.0	0.182	1.780	0.008	1273.	186.	-3.4	0.2930	0.52	0.19	1.00	346.0	15.0	302.0	2.0	0	0.00	39.	999.	3	NAD-SFC	NoSubs
10	6	25	176	16	127.4	-9.000	-9.000	-9.000	1332.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	302.2	2.0	0	0.00	39.	999.	3	NAD-SFC	NoSubs
10	6	25	176	17	88.7	0.369	1.505	0.008	1370.	538.	-50.4	0.2940	0.52	0.22	3.10	8.0	15.0	302.2	2.0	0	0.00	40.	999.	3	NAD-SFC	NoSubs
10	6	25	176	18	44.2	0.305	1.198	0.008	1387.	407.	-57.5	0.2940	0.52	0.28	2.60	12.0	15.0	301.8	2.0	0	0.00	50.	999.	3	NAD-SFC	NoSubs
10	6	25	176	19	0.9	0.311	0.330	0.008	1386.	416.	-2911.6	0.2720	0.52	0.46	3.10	316.0	15.0	301.1	2.0	0	0.00	52.	999.	3	NAD-SFC	NoSubs
10	6	25	176	20	-44.7	0.443	-9.000	-9.000	-999.	708.	173.6	0.1750	0.52	1.00	5.10	269.0	15.0	297.9	2.0	0	0.00	63.	1000.	3	NAD-SFC	NoSubs
10	6	25	176	21	-53.6	0.525	-9.000	-9.000	-999.	913.	241.2	0.2160	0.52	1.00	5.70	275.0	15.0	294.8	2.0	0	0.00	71.	1000.	3	NAD-SFC	NoSubs
10	6	25	176	22	-43.0	0.420	-9.000	-9.000	-999.	663.	153.6	0.2160	0.52	1.00	4.60	272.0	15.0	293.4	2.0	0	0.00	74.	1000.	3	NAD-SFC	NoSubs
10	6	25	176	23	-38.3	0.373	-9.000	-9.000	-999.	548.	120.5	0.2160	0.52	1.00	4.10	271.0	15.0	292.6	2.0	0	0.00	76.	1000.	3	NAD-SFC	NoSubs
10	6	25	176	24	-33.5	0.325	-9.000	-9.000	-999.	447.	91.8	0.2160	0.52	1.00	3.60	282.0	15.0	292.1	2.0	0	0.00	78.	1000.	3	NAD-SFC	NoSubs
10	6	26	177	1	-28.7	0.278	-9.000	-9.000	-999.	353.	67.0	0.2160	0.52	1.00	3.10	282.0	15.0	291.8	2.0	0	0.00	79.	1000.	3	NAD-SFC	NoSubs
10	6	26	177	2	-24.5	0.246	-9.000	-9.000	-999.	294.	54.3	0.2720	0.52	1.00	2.60	305.0	15.0	291.4	2.0	0	0.00	80.	1001.	3	NAD-SFC	NoSubs
10	6	26	177	3	-15.7	0.196	-9.000	-9.000	-999.	208.	42.4	0.2720	0.52	1.00	2.10	313.0	15.0	291.1	2.0	0	0.00	81.	1001.	3	NAD-SFC	NoSubs
10	6	26	177	4	-15.8	0.196	-9.000	-9.000	-999.	207.	42.3	0.2720	0.52	1.00	2.10	315.0	15.0	290.8	2.0	0	0.00	81.	1001.	3	NAD-SFC	NoSubs
10	6	26	177	5	-14.2	0.183	-9.000	-9.000	-999.	188.	38.7	0.2160	0.52	1.00	2.10	299.0	15.0	290.5	2.0	0	0.00	82.	1002.	3	NAD-SFC	NoSubs
10	6	26	177	6	-3.0	0.144	-9.000	-9.000	-999.	131.	88.5	0.2720	0.52	0.46	1.50	303.0	15.0	290.6	2.0	0	0.00	82.	1002.	3	NAD-SFC	NoSubs
10	6	26	177	7	40.3	0.098	0.594	0.006	186.	74.	-2.1	0.2720	0.52	0.28	0.50	306.0	15.0	292.1	2.0	0	0.00	74.	1002.	3	NAD-SFC	NoSubs
10	6	26	177	8	85.1	-9.000	-9.000	-9.000	358.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	293.8	2.0	0	0.00	68.	1002.	3	NAD-SFC	NoSubs
10	6	26	177	9	124.4	-9.000	-9.000	-9.000	569.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	295.4	2.0	0	0.00	63.	1002.	3	NAD-SFC	NoSubs
10	6	26	177	10	155.8	-9.000	-9.000	-9.000	754.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.1	2.0	0	0.00	58.	1001.	3	NAD-SFC	NoSubs
10	6	26	177	11	178.1	-9.000	-9.000	-9.000	914.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.0	2.0	0	0.00	52.	1000.	2	NAD-SFC	NoSubs
10	6	26	177	12	189.2	-9.000	-9.000	-9.000	1021.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.4	2.0	0	0.00	48.	999.	2	NAD-SFC	NoSubs
10	6	26	177	13	189.8	-9.000	-9.000	-9.000	1095.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.8	2.0	0	0.00	44.	999.	2	NAD-SFC	NoSubs
10	6	26	177	14	180.0	0.120	1.803	0.010	1162.	100.	-1.0	0.2720	0.52	0.19	0.50	316.0	15.0	302.9	2.0	0	0.00	40.	998.	2	NAD-SFC	NoSubs
10	6	26	177	15	158.9	-9.000	-9.000	-9.000	1218.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.8	2.0	0	0.00	38.	997.	2	NAD-SFC	NoSubs
10	6	26	177	16	128.1	0.229	1.655	0.010	1261.	263.	-8.3	0.2940	0.52	0.20	1.50	10.0	15.0	304.0	2.0	0	0.00	38.	997.	2	NAD-SFC	NoSubs
10	6	26	177	17	89.1	0.277	1.478	0.010	1290.	350.	-21.2	0.2940	0.52	0.22	2.10	18.0	15.0	304.0	2.0	0	0.00	39.	997.	2	NAD-SFC	NoSubs
10	6	26	177	18	44.2	0.259	1.174	0.010	1303.	317.	-35.2	0.2940	0.52	0.27	2.10	24.0	15.0	303.6	2.0	0	0.00	48.	997.	2	NAD-SFC	NoSubs
10	6	26	177	19	0.4	0.215	0.239	0.010	1302.	240.	-2382.6	0.2940	0.52	0.46	2.10	18.0	15.0	302.9	2.0	0	0.00	51.	997.	2	NAD-SFC	NoSubs
10	6	26	177	20	-16.1	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	301.6	2.0	0	0.00	54.	998.	2	NAD-SFC	NoSubs
10	6	26	177	21	-32.5	0.326	-9.000	-9.000	-999.	446.	94.4	0.2160	0.52	1.00	3.60	283.0	15.0	300.2	2.0	0	0.00	59.	998.	3	NAD-SFC	NoSubs
10	6	26	177	22	-38.6	0.373	-9.000	-9.000	-999.	546.	119.3	0.2160	0.52	1.00	4.10	280.0	15.0	297.2	2.0	0	0.00	70.	998.	2	NAD-SFC	NoSubs
10	6	26	177	23	-28.9	0.278	-9.000	-9.000	-999.	357.	66.2	0.2160	0.52	1.00	3.10	289.0	15.0	296.1	2.0	0	0.00	72.	998.	2	NAD-SFC	NoSubs
10	6	26	177	24	-15.8	0.195	-9.000	-9.000	-999.	210.	42.1	0.2720	0.52	1.00	2.10	313.0	15.0	295.4	2.0	0	0.00	73.	998.	2	NAD-SFC	NoSubs
10	6	27	178	1	-4.0	0.102	-9.000	-9.000	-999.	82.	23.6	0.2930	0.52	1.00	1.00	331.0	15.0	294.9	2.0	0	0.00	75.	998.	2	NAD-SFC	NoSubs
10	6	27	178	2	-1.6	0.084	-9.000	-9.000	-999.	58.	31.9	0.2940	0.52	1.00	0.50	5.0	15.0	294.2	2.0	0	0.00	77.	998.	2	NAD-SFC	NoSubs
10	6	27	178	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	293.9	2.0	0	0.00	79.	998.	2	NAD-SFC	NoSubs
10	6	27	178	4	-3.4	0.095	-9.000	-9.000	-999.	70.	21.9	0.1900	0.52	1.00	1.00	208.0	15.0	293.5	2.0	0	0.00	80.	998.	2	NAD-SFC	NoSubs
10	6	27	178	5	-6.9	0.126	-9.000	-9.000	-999.	107.	25.7	0.1950	0.52	1.00	1.50	226.0	15.0	293.2	2.0	0	0.00	80.	998.	2	NAD-SFC	NoSubs
10	6	27	178	6	-3.4	0.131	-9.000	-9.000	-999.	114.	59.3	0.1950	0.52	0.46	1.50	236.0	15.0	293.4	2.0	0	0.00	80.	998.	2	NAD-SFC	NoSubs
10	6	27	178	7	40.2	0.189	0.533	0.007	134.	197.	-15.0	0.2160	0.52	0.28	1.50	280.0	15.0	295.8	2.0	0	0.00	72.	998.	2	NAD-SFC	NoSubs
10	6	27	178	8	85.7	0.151	0.865	0.007	268.	140.	-3.5	0.1750	0.52	0.22	1.00	262.0	15.0	297.8	2.0	0	0.00	67.	998.	2	NAD-SFC	NoSubs
10	6	27	178	9	125.6	0.104	1.184	0.008	470.	81.	-1.0	0.1750	0.52	0.20	0.50	264.0	15.0	299.6	2.0	0	0.00	62.	997.	2	NAD-SFC	NoSubs
10	6	27	178	10	157.5	-9.000	-9.000	-9.000	695.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.4	2.0	0	0.00	55.	997.	2	NAD-SFC	NoSubs
10	6	27	178	11	179.9	-9.000	-9.000	-9.000	802.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.1	2.0	0	0.00	47.	996.	2	NAD-SFC	NoSubs
10	6	27	178	12	191.2	-9.000	-9.000	-9.000	903.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	304.8	2.0	0	0.00	41.	995.	2	NAD-SFC	NoSubs
10	6	27	178	13	192.1	0.115	1.748	0.011	989.	94.	-1.0	0.2160	0.52	0.19	0.50	298.0	15.0	306.1	2.0	0	0.00	36.	995.	2	NAD-SFC	NoSubs
10	6	27	178	14	182.3	0.123	1.754	0.010	1052.	103.	-1.0	0.2940	0.52	0.19	0.50	8.0	15.0	307.1	2.0	0	0.00	34.	994.	2	NAD-SFC	NoSubs
10	6	27	178	15	161.2	0.175	1.712	0.009	1104.	176.	-3.0	0.2470	0.52	0.19	1.00	32.0	15.0	307.8	2.0	0	0.00	33.	994.	2	NAD-SFC	NoSubs
10	6	27	178	16	130.4	0.287	1.615	0.008	1145.	370.	-16.1	0.2940	0.52	0.20	2.10	27.0	15.0	307.9	2.0	0	0.00	34.	993.	2	NAD-SFC	NoSubs

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10  6 27 178 17   91.0  0.370  1.443  0.008 1171.  540.    -49.2  0.2940  0.52  0.22  3.10   27.0  15.0 307.2  2.0   0  0.00  44.  993.   2 NAD-SFC NoSubs
10  6 27 178 18   45.8  0.383  1.152  0.008 1183.  569.   -108.8  0.2470  0.52  0.27  3.60   45.0  15.0 306.4  2.0   0  0.00  52.  993.   2 NAD-SFC NoSubs
10  6 27 178 19    1.9  0.269  0.397  0.008 1183.  342.   -917.3  0.2940  0.52  0.46  2.60    6.0  15.0 305.6  2.0   0  0.00  52.  993.   2 NAD-SFC NoSubs
10  6 27 178 20  -47.2  0.468 -9.000 -9.000 -999.  768.    192.4  0.2160  0.52  1.00  5.10  292.0  15.0 304.1  2.0   0  0.00  55.  994.   2 NAD-SFC NoSubs
10  6 27 178 21  -42.9  0.420 -9.000 -9.000 -999.  656.    153.3  0.2160  0.52  1.00  4.60  283.0  15.0 300.5  2.0   0  0.00  65.  994.   2 NAD-SFC NoSubs
10  6 27 178 22  -38.2  0.373 -9.000 -9.000 -999.  548.    120.0  0.2160  0.52  1.00  4.10  278.0  15.0 299.0  2.0   0  0.00  63.  994.   2 NAD-SFC NoSubs
10  6 27 178 23  -33.5  0.325 -9.000 -9.000 -999.  447.     91.2  0.2160  0.52  1.00  3.60  283.0  15.0 298.0  2.0   0  0.00  62.  994.   2 NAD-SFC NoSubs
10  6 27 178 24  -30.6  0.297 -9.000 -9.000 -999.  388.     75.6  0.2720  0.52  1.00  3.10  315.0  15.0 297.4  2.0   0  0.00  61.  994.   2 NAD-SFC NoSubs
10  6 28 179  1   -7.5  0.133 -9.000 -9.000 -999.  140.     28.0  0.2470  0.52  1.00  1.50   37.0  15.0 296.8  2.0   0  0.00  63.  994.   2 NAD-SFC NoSubs
10  6 28 179  2   -7.0  0.128 -9.000 -9.000 -999.  110.     26.4  0.2090  0.52  1.00  1.50   67.0  15.0 296.5  2.0   0  0.00  64.  995.   2 NAD-SFC NoSubs
10  6 28 179  3   -3.7  0.099 -9.000 -9.000 -999.   74.     22.9  0.2470  0.52  1.00  1.00   36.0  15.0 295.8  2.0   0  0.00  66.  995.   2 NAD-SFC NoSubs
10  6 28 179  4   -1.6  0.084 -9.000 -9.000 -999.   58.     31.9  0.2940  0.52  1.00  0.50   15.0  15.0 295.2  2.0   0  0.00  67.  995.   2 NAD-SFC NoSubs
10  6 28 179  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0 294.5  2.0   0  0.00  69.  995.   2 NAD-SFC NoSubs
10  6 28 179  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.46  0.00    0.0  15.0 294.2  2.0   0  0.00  70.  996.   2 NAD-SFC NoSubs
10  6 28 179  7   40.3 -9.000 -9.000 -9.000  139. -999. -99999.0  0.2235  0.52  0.28  0.00    0.0  15.0 296.6  2.0   0  0.00  58.  996.   2 NAD-SFC NoSubs
10  6 28 179  8   85.9 -9.000 -9.000 -9.000  261. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0 298.5  2.0   0  0.00  54.  996.   2 NAD-SFC NoSubs
10  6 28 179  9  126.0 -9.000 -9.000 -9.000  403. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0 300.8  2.0   0  0.00  49.  995.   2 NAD-SFC NoSubs
10  6 28 179 10  157.9 -9.000 -9.000 -9.000  585. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 302.5  2.0   0  0.00  46.  995.   2 NAD-SFC NoSubs
10  6 28 179 11  180.4 -9.000 -9.000 -9.000  717. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 304.2  2.0   0  0.00  42.  995.   2 NAD-SFC NoSubs
10  6 28 179 12  192.0 -9.000 -9.000 -9.000  819. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 306.1  2.0   0  0.00  38.  994.   2 NAD-SFC NoSubs
10  6 28 179 13  192.9 -9.000 -9.000 -9.000  911. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 307.6  2.0   0  0.00  33.  993.   2 NAD-SFC NoSubs
10  6 28 179 14  183.3  0.123  1.725  0.009  992.  103.    -1.0  0.2940  0.52  0.19  0.50   17.0  15.0 308.8  2.0   0  0.00  30.  992.   2 NAD-SFC NoSubs
10  6 28 179 15  162.3  0.176  1.695  0.009 1063.  177.    -3.0  0.2470  0.52  0.19  1.00   35.0  15.0 309.4  2.0   0  0.00  29.  992.   2 NAD-SFC NoSubs
10  6 28 179 16  131.5  0.277  1.606  0.008 1116.  350.   -14.3  0.2470  0.52  0.20  2.10   32.0  15.0 309.5  2.0   0  0.00  30.  992.   2 NAD-SFC NoSubs
10  6 28 179 17   92.2  0.278  1.442  0.008 1151.  352.   -20.6  0.2940  0.52  0.22  2.10   26.0  15.0 309.1  2.0   0  0.00  37.  992.   2 NAD-SFC NoSubs
10  6 28 179 18   47.4  0.347  1.161  0.008 1168.  490.   -77.9  0.2720  0.52  0.27  3.10  322.0  15.0 308.9  2.0   0  0.00  41.  992.   2 NAD-SFC NoSubs
10  6 28 179 19    1.4  0.538  0.361  0.008 1160.  948. -8888.0  0.2160  0.52  0.46  5.70  295.0  15.0 304.8  2.0   0  0.00  55.  993.   2 NAD-SFC NoSubs
10  6 28 179 20  -42.7  0.420 -9.000 -9.000 -999.  666.    153.5  0.2160  0.52  1.00  4.60  284.0  15.0 301.0  2.0   0  0.00  61.  993.   2 NAD-SFC NoSubs
10  6 28 179 21  -38.2  0.373 -9.000 -9.000 -999.  548.    119.9  0.2160  0.52  1.00  4.10  276.0  15.0 298.8  2.0   0  0.00  62.  994.   2 NAD-SFC NoSubs
10  6 28 179 22  -30.6  0.297 -9.000 -9.000 -999.  391.     75.7  0.2720  0.52  1.00  3.10  304.0  15.0 297.6  2.0   0  0.00  62.  994.   2 NAD-SFC NoSubs
10  6 28 179 23  -16.3  0.200 -9.000 -9.000 -999.  219.     43.6  0.2940  0.52  1.00  2.10    2.0  15.0 297.2  2.0   0  0.00  61.  995.   2 NAD-SFC NoSubs
10  6 28 179 24  -29.8  0.289 -9.000 -9.000 -999.  372.     71.4  0.2470  0.52  1.00  3.10   48.0  15.0 296.8  2.0   0  0.00  62.  995.   2 NAD-SFC NoSubs
10  6 29 180  1  -29.9  0.288 -9.000 -9.000 -999.  372.     71.2  0.2470  0.52  1.00  3.10   36.0  15.0 296.1  2.0   0  0.00  64.  996.   2 NAD-SFC NoSubs
10  6 29 180  2  -16.4  0.200 -9.000 -9.000 -999.  218.     43.4  0.2940  0.52  1.00  2.10    9.0  15.0 295.2  2.0   0  0.00  65.  996.   2 NAD-SFC NoSubs
10  6 29 180  3  -16.4  0.200 -9.000 -9.000 -999.  214.     43.3  0.2930  0.52  1.00  2.10  352.0  15.0 294.5  2.0   0  0.00  66.  996.   2 NAD-SFC NoSubs
10  6 29 180  4  -16.4  0.200 -9.000 -9.000 -999.  214.     43.2  0.2930  0.52  1.00  2.10  342.0  15.0 293.8  2.0   0  0.00  69.  997.   2 NAD-SFC NoSubs
10  6 29 180  5   -8.2  0.140 -9.000 -9.000 -999.  126.     29.6  0.2930  0.52  1.00  1.50  339.0  15.0 293.2  2.0   0  0.00  70.  997.   2 NAD-SFC NoSubs
10  6 29 180  6   -1.9  0.094 -9.000 -9.000 -999.   70.     38.9  0.2930  0.52  0.46  1.00  336.0  15.0 293.2  2.0   0  0.00  71.  997.   2 NAD-SFC NoSubs
10  6 29 180  7   39.5  0.143  0.539  0.011  141.  130.     -6.6  0.2160  0.52  0.28  1.00  289.0  15.0 295.2  2.0   0  0.00  63.  997.   2 NAD-SFC NoSubs
10  6 29 180  8   85.1 -9.000 -9.000 -9.000  245. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0 297.1  2.0   0  0.00  57.  997.   2 NAD-SFC NoSubs
10  6 29 180  9  124.9 -9.000 -9.000 -9.000  381. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0 298.8  2.0   0  0.00  52.  997.   2 NAD-SFC NoSubs
10  6 29 180 10  156.9 -9.000 -9.000 -9.000  573. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 300.6  2.0   0  0.00  49.  997.   2 NAD-SFC NoSubs
10  6 29 180 11  179.3 -9.000 -9.000 -9.000  726. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 302.2  2.0   0  0.00  45.  997.   2 NAD-SFC NoSubs
10  6 29 180 12  190.7 -9.000 -9.000 -9.000  851. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 303.9  2.0   0  0.00  43.  996.   2 NAD-SFC NoSubs
10  6 29 180 13  191.5 -9.000 -9.000 -9.000  960. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 305.2  2.0   0  0.00  40.  996.   2 NAD-SFC NoSubs
10  6 29 180 14  181.8  0.185  1.755  0.009 1057.  191.    -3.1  0.2940  0.52  0.19  1.00    6.0  15.0 306.2  2.0   0  0.00  37.  995.   2 NAD-SFC NoSubs
10  6 29 180 15  160.9  0.294  1.726  0.010 1136.  382.   -14.0  0.2940  0.52  0.19  2.10   14.0  15.0 307.0  2.0   0  0.00  36.  995.   2 NAD-SFC NoSubs
10  6 29 180 16  130.1 -9.000 -9.000 -9.000 1195. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0 307.2  2.0   0  0.00  38.  995.   2 NAD-SFC NoSubs
10  6 29 180 17   90.9  0.324  1.467  0.010 1234.  442.   -33.0  0.2940  0.52  0.22  2.60   13.0  15.0 306.9  2.0   0  0.00  44.  995.   2 NAD-SFC NoSubs
10  6 29 180 18   47.2  0.307  1.186  0.010 1254.  408.   -54.3  0.2930  0.52  0.27  2.60  347.0  15.0 306.8  2.0   0  0.00  50.  995.   3 NAD-SFC NoSubs
10  6 29 180 19    3.2  0.437  0.486  0.010 1251.  692. -2273.1  0.2160  0.52  0.46  4.60  295.0  15.0 305.2  2.0   0  0.00  53.  996.   3 NAD-SFC NoSubs
10  6 29 180 20  -46.7  0.468 -9.000 -9.000 -999.  768.    195.0  0.2160  0.52  1.00  5.10  272.0  15.0 300.2  2.0   0  0.00  63.  997.   3 NAD-SFC NoSubs
10  6 29 180 21  -50.1  0.498 -9.000 -9.000 -999.  842.    218.8  0.1750  0.52  1.00  5.70  269.0  15.0 297.8  2.0   0  0.00  66.  997.   3 NAD-SFC NoSubs
10  6 29 180 22  -42.5  0.420 -9.000 -9.000 -999.  659.    155.1  0.2160  0.52  1.00  4.60  272.0  15.0 296.2  2.0   0  0.00  69.  997.   3 NAD-SFC NoSubs
10  6 29 180 23  -33.0  0.325 -9.000 -9.000 -999.  452.     92.9  0.2160  0.52  1.00  3.60  284.0  15.0 295.5  2.0   0  0.00  71.  998.   3 NAD-SFC NoSubs
10  6 29 180 24  -14.0  0.183 -9.000 -9.000 -999.  202.     39.0  0.2160  0.52  1.00  2.10  297.0  15.0 295.2  2.0   0  0.00  71.  998.   3 NAD-SFC NoSubs
10  6 30 181  1   -3.9  0.101 -9.000 -9.000 -999.   81.     23.7  0.2940  0.52  1.00  1.00    8.0  15.0 295.0  2.0   0  0.00  72.  999.   3 NAD-SFC NoSubs
10  6 30 181  2   -1.5  0.081 -9.000 -9.000 -999.   55.     31.3  0.2470  0.52  1.00  0.50   33.0  15.0 294.8  2.0   0  0.00  73.  999.   3 NAD-SFC NoSubs
10  6 30 181  3   -1.6  0.082 -9.000 -9.000 -999.   56.     31.5  0.2720  0.52  1.00  0.50  310.0  15.0 294.2  2.0   0  0.00  73.  999.   3 NAD-SFC NoSubs
10  6 30 181  4   -1.5  0.080 -9.000 -9.000 -999.   54.     31.1  0.2160  0.52  1.00  0.50  276.0  15.0 293.9  2.0   0  0.00  73.  999.   3 NAD-SFC NoSubs
10  6 30 181  5   -1.5  0.080 -9.000 -9.000 -999.   54.     31.1  0.2160  0.52  1.00  0.50  298.0  15.0 293.4  2.0   0  0.00  73.  999.   3 NAD-SFC NoSubs
10  6 30 181  6   -0.4  0.048 -9.000 -9.000 -999.   25.     23.6  0.2720  0.52  0.47  0.50  327.0  15.0 293.2  2.0   0  0.00  73. 1000.   3 NAD-SFC NoSubs
10  6 30 181  7   40.2  0.202  0.617  0.009  208.  218.    -18.2  0.2930  0.52  0.28  1.50  354.0  15.0 294.8  2.0   0  0.00  64. 1000.   3 NAD-SFC NoSubs
10  6 30 181  8   85.1  0.109  0.930  0.008  336.   90.     -1.3  0.2720  0.52  0.22  0.50  329.0  15.0 296.1  2.0   0  0.00  58. 1000.   3 NAD-SFC NoSubs
10  6 30 181  9  124.6 -9.000 -9.000 -9.000  486. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0 297.6  2.0   0  0.00  54. 1000.   3 NAD-SFC NoSubs
10  6 30 181 10  156.1 -9.000 -9.000 -9.000  638. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 299.2  2.0   0  0.00  50.  999.   3 NAD-SFC NoSubs
10  6 30 181 11  178.4 -9.000 -9.000 -9.000  786. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 300.8  2.0   0  0.00  47.  999.   2 NAD-SFC NoSubs
10  6 30 181 12  189.8  0.121  1.699  0.006  921.  101.    -1.0  0.2720  0.52  0.19  0.50  306.0  15.0 302.2  2.0   0  0.00  43.  998.   2 NAD-SFC NoSubs
10  6 30 181 13  190.4  0.186  1.780  0.006 1056.  192.    -3.0  0.2930  0.52  0.19  1.00  344.0  15.0 303.2  2.0   0  0.00  39.  998.   2 NAD-SFC NoSubs
10  6 30 181 14  180.6  0.238  1.817  0.006 1182.  280.    -6.7  0.2930  0.52  0.19  1.50  349.0  15.0 304.1  2.0   0  0.00  35.  997.   2 NAD-SFC NoSubs
10  6 30 181 15  159.6  0.387  1.791  0.006 1283.  577.   -32.2  0.2940  0.52  0.19  3.10    5.0  15.0 304.5  2.0   0  0.00  33.  997.   2 NAD-SFC NoSubs
10  6 30 181 16  128.6  0.471  1.699  0.006 1356.  776.   -72.4  0.2940  0.52  0.20  4.10    2.0  15.0 304.4  2.0   0  0.00  34.  996.   2 NAD-SFC NoSubs
10  6 30 181 17   89.1 -9.000 -9.000 -9.000 1400. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0 303.5  2.0   0  0.00  43.  997.   2 NAD-SFC NoSubs
10  6 30 181 18   43.9  0.398  1.205  0.007 1419.  602.   -127.3  0.2940  0.52  0.27  3.60    2.0  15.0 302.5  2.0   0  0.00  51.  997.   2 NAD-SFC NoSubs
10  6 30 181 19   -0.9  0.427 -9.000 -9.000 -999.  669.   7656.7  0.2930  0.52  0.46  4.10  348.0  15.0 301.1  2.0   0  0.00  54.  998.   2 NAD-SFC NoSubs
10  6 30 181 20  -40.7  0.406 -9.000 -9.000 -999.  622.    146.5  0.2930  0.52  1.00  4.10  331.0  15.0 299.4  2.0   0  0.00  58.  998.   3 NAD-SFC NoSubs
10  6 30 181 21  -34.9  0.347 -9.000 -9.000 -999.  493.    106.5  0.2720  0.52  1.00  3.60  319.0  15.0 298.0  2.0   0  0.00  61.  998.   3 NAD-SFC NoSubs
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10  6 30 181 22  -32.9  0.326 -9.000 -9.000 -999.  446.    93.3 0.2160  0.52  1.00  3.60 292.0  15.0 296.8  2.0    0  0.00  64.   999.    3 NAD-SFC NoSubs
10  6 30 181 23  -33.1  0.325 -9.000 -9.000 -999.  446.    92.8 0.2160  0.52  1.00  3.60 287.0  15.0 295.2  2.0    0  0.00  67.   999.    3 NAD-SFC NoSubs
10  6 30 181 24  -30.3  0.297 -9.000 -9.000 -999.  388.    76.8 0.2720  0.52  1.00  3.10 307.0  15.0 294.1  2.0    0  0.00  69.   999.    3 NAD-SFC NoSubs
10  7  1 182  1  -31.1  0.303 -9.000 -9.000 -999.  401.    80.0 0.2930  0.52  1.00  3.10 338.0  15.0 293.2  2.0    0  0.00  70.   999.    3 NAD-SFC NoSubs
10  7  1 182  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 292.4  2.0    0  0.00  73.  1000.    3 NAD-SFC NoSubs
10  7  1 182  3  -16.3  0.200 -9.000 -9.000 -999.  215.    43.8 0.2940  0.52  1.00  2.10  14.0  15.0 291.8  2.0    0  0.00  74.  1000.    3 NAD-SFC NoSubs
10  7  1 182  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 291.1  2.0    0  0.00  76.   999.    3 NAD-SFC NoSubs
10  7  1 182  5   -4.0  0.102 -9.000 -9.000 -999.   78.    23.7 0.2940  0.52  1.00  1.00  11.0  15.0 290.4  2.0    0  0.00  77.  1000.    3 NAD-SFC NoSubs
10  7  1 182  6   -1.9  0.095 -9.000 -9.000 -999.   70.    39.3 0.2940  0.52  0.47  1.00  10.0  15.0 290.2  2.0    0  0.00  78.  1000.    3 NAD-SFC NoSubs
10  7  1 182  7   37.7  0.201  0.617  0.010  222.  216.   -19.1 0.2940  0.52  0.28  1.50   2.0  15.0 291.2  2.0    0  0.00  70.  1000.    2 NAD-SFC NoSubs
10  7  1 182  8   83.1  0.167  0.902  0.009  315.  165.    -5.0 0.2930  0.52  0.22  1.00 334.0  15.0 293.0  2.0    0  0.00  62.  1000.    2 NAD-SFC NoSubs
10  7  1 182  9  123.0 -9.000 -9.000 -9.000  434. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 294.8  2.0    0  0.00  57.  1000.    2 NAD-SFC NoSubs
10  7  1 182 10  154.8 -9.000 -9.000 -9.000  593. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 296.4  2.0    0  0.00  52.  1000.    2 NAD-SFC NoSubs
10  7  1 182 11  177.2 -9.000 -9.000 -9.000  752. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 298.0  2.0    0  0.00  48.  1000.    2 NAD-SFC NoSubs
10  7  1 182 12  188.5 -9.000 -9.000 -9.000  904. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 299.6  2.0    0  0.00  43.   999.    2 NAD-SFC NoSubs
10  7  1 182 13  189.2  0.123  1.762  0.008 1031.  104.    -1.0 0.2930  0.52  0.19  0.50 332.0  15.0 300.8  2.0    0  0.00  40.   998.    2 NAD-SFC NoSubs
10  7  1 182 14  179.4  0.185  1.788  0.009 1135.  190.    -3.1 0.2930  0.52  0.19  1.00 350.0  15.0 301.8  2.0    0  0.00  37.   997.    2 NAD-SFC NoSubs
10  7  1 182 15  158.4  0.293  1.757  0.010 1219.  381.   -14.1 0.2940  0.52  0.19  2.10   1.0  15.0 302.2  2.0    0  0.00  35.   997.    2 NAD-SFC NoSubs
10  7  1 182 16  127.6  0.333  1.663  0.010 1283.  462.   -25.8 0.2940  0.52  0.20  2.60   1.0  15.0 302.5  2.0    0  0.00  34.   997.    2 NAD-SFC NoSubs
10  7  1 182 17   88.5 -9.000 -9.000 -9.000 1325. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 302.1  2.0    0  0.00  38.   996.    2 NAD-SFC NoSubs
10  7  1 182 18   43.3 -9.000 -9.000 -9.000 1341. -999. -99999.0 0.2235  0.52  0.27  0.00   0.0  15.0 301.2  2.0    0  0.00  49.   997.    2 NAD-SFC NoSubs
10  7  1 182 19   -2.4  0.373 -9.000 -9.000 -999.  546.  1927.0 0.2930  0.52  0.46  3.60 358.0  15.0 299.9  2.0    0  0.00  53.   997.    2 NAD-SFC NoSubs
10  7  1 182 20  -35.6  0.355 -9.000 -9.000 -999.  507.   111.4 0.2930  0.52  1.00  3.60 345.0  15.0 298.5  2.0    0  0.00  57.   997.    3 NAD-SFC NoSubs
10  7  1 182 21  -35.0  0.347 -9.000 -9.000 -999.  491.   106.2 0.2720  0.52  1.00  3.60 310.0  15.0 297.2  2.0    0  0.00  61.   997.    3 NAD-SFC NoSubs
10  7  1 182 22  -37.8  0.373 -9.000 -9.000 -999.  546.   121.7 0.2160  0.52  1.00  4.10 285.0  15.0 295.4  2.0    0  0.00  69.   997.    3 NAD-SFC NoSubs
10  7  1 182 23  -35.4  0.347 -9.000 -9.000 -999.  491.   105.0 0.2720  0.52  1.00  3.60 303.0  15.0 294.0  2.0    0  0.00  73.   998.    3 NAD-SFC NoSubs
10  7  1 182 24  -30.4  0.297 -9.000 -9.000 -999.  389.    76.5 0.2720  0.52  1.00  3.10 324.0  15.0 292.9  2.0    0  0.00  76.   998.    3 NAD-SFC NoSubs
10  7  2 183  1  -31.2  0.303 -9.000 -9.000 -999.  401.    79.6 0.2930  0.52  1.00  3.10 330.0  15.0 292.0  2.0    0  0.00  78.   998.    3 NAD-SFC NoSubs
10  7  2 183  2  -25.4  0.252 -9.000 -9.000 -999.  304.    55.9 0.2930  0.52  1.00  2.60 341.0  15.0 291.2  2.0    0  0.00  78.   998.    3 NAD-SFC NoSubs
10  7  2 183  3  -16.3  0.200 -9.000 -9.000 -999.  215.    43.6 0.2930  0.52  1.00  2.10 355.0  15.0 290.8  2.0    0  0.00  79.   998.    3 NAD-SFC NoSubs
10  7  2 183  4   -8.2  0.140 -9.000 -9.000 -999.  126.    29.9 0.2940  0.52  1.00  1.50  11.0  15.0 290.1  2.0    0  0.00  81.   998.    3 NAD-SFC NoSubs
10  7  2 183  5   -4.0  0.102 -9.000 -9.000 -999.   78.    23.7 0.2940  0.52  1.00  1.00  10.0  15.0 289.5  2.0    0  0.00  82.   998.    3 NAD-SFC NoSubs
10  7  2 183  6   -2.0  0.094 -9.000 -9.000 -999.   69.    37.2 0.2930  0.52  0.47  1.00 352.0  15.0 289.4  2.0    0  0.00  81.   999.    3 NAD-SFC NoSubs
10  7  2 183  7   38.3  0.201  0.649  0.009  254.  216.   -18.8 0.2930  0.52  0.28  1.50 351.0  15.0 290.5  2.0    0  0.00  73.   999.    3 NAD-SFC NoSubs
10  7  2 183  8   83.3 -9.000 -9.000 -9.000  382. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 292.0  2.0    0  0.00  67.   999.    3 NAD-SFC NoSubs
10  7  2 183  9  122.4 -9.000 -9.000 -9.000  508. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 293.8  2.0    0  0.00  61.   998.    2 NAD-SFC NoSubs
10  7  2 183 10  154.3 -9.000 -9.000 -9.000  633. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 295.5  2.0    0  0.00  55.   998.    2 NAD-SFC NoSubs
10  7  2 183 11  176.7 -9.000 -9.000 -9.000  778. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 297.2  2.0    0  0.00  49.   997.    2 NAD-SFC NoSubs
10  7  2 183 12  188.0  0.121  1.690  0.009  914.  101.    -1.0 0.2720  0.52  0.19  0.50 303.0  15.0 298.5  2.0    0  0.00  46.   997.    2 NAD-SFC NoSubs
10  7  2 183 13  188.7  0.183  1.757  0.010 1023.  188.    -2.9 0.2720  0.52  0.19  1.00 324.0  15.0 299.8  2.0    0  0.00  43.   996.    2 NAD-SFC NoSubs
10  7  2 183 14  178.9  0.238  1.773  0.010 1108.  279.    -6.7 0.2930  0.52  0.19  1.50 342.0  15.0 300.6  2.0    0  0.00  40.   995.    2 NAD-SFC NoSubs
10  7  2 183 15  157.9  0.386  1.736  0.010 1178.  576.   -32.4 0.2930  0.52  0.19  3.10 352.0  15.0 301.1  2.0    0  0.00  40.   995.    3 NAD-SFC NoSubs
10  7  2 183 16  127.4  0.426  1.640  0.011 1231.  666.   -53.7 0.2940  0.52  0.20  3.60   3.0  15.0 301.2  2.0    0  0.00  43.   995.    3 NAD-SFC NoSubs
10  7  2 183 17   88.5  0.460  1.466  0.011 1265.  749.   -97.8 0.2930  0.52  0.22  4.10 358.0  15.0 300.8  2.0    0  0.00  47.   995.    3 NAD-SFC NoSubs
10  7  2 183 18   44.0  0.305  1.167  0.011 1282.  423.   -57.3 0.2930  0.52  0.27  2.60 359.0  15.0 300.4  2.0    0  0.00  58.   995.    3 NAD-SFC NoSubs
10  7  2 183 19    0.5  0.367  0.268  0.011 1281.  532. -8266.3 0.2930  0.52  0.46  3.60 355.0  15.0 299.6  2.0    0  0.00  60.   995.    3 NAD-SFC NoSubs
10  7  2 183 20  -34.8  0.347 -9.000 -9.000 -999.  491.   106.6 0.2720  0.52  1.00  3.60 327.0  15.0 298.5  2.0    0  0.00  63.   995.    3 NAD-SFC NoSubs
10  7  2 183 21  -35.7  0.355 -9.000 -9.000 -999.  507.   110.9 0.2930  0.52  1.00  3.60 333.0  15.0 297.1  2.0    0  0.00  67.   995.    3 NAD-SFC NoSubs
10  7  2 183 22  -35.0  0.347 -9.000 -9.000 -999.  491.   105.8 0.2720  0.52  1.00  3.60 319.0  15.0 296.1  2.0    0  0.00  69.   995.    3 NAD-SFC NoSubs
10  7  2 183 23  -35.2  0.347 -9.000 -9.000 -999.  490.   105.4 0.2720  0.52  1.00  3.60 306.0  15.0 295.2  2.0    0  0.00  71.   995.    3 NAD-SFC NoSubs
10  7  2 183 24  -34.0  0.347 -9.000 -9.000 -999.  491.   109.1 0.2720  0.52  1.00  3.60 312.0  15.0 294.0  2.0    0  0.00  75.   995.    4 NAD-SFC NoSubs
10  7  3 184  1  -23.9  0.247 -9.000 -9.000 -999.  299.    55.6 0.2720  0.52  1.00  2.60 319.0  15.0 293.1  2.0    0  0.00  76.   996.    4 NAD-SFC NoSubs
10  7  3 184  2   -7.7  0.137 -9.000 -9.000 -999.  128.    29.7 0.2720  0.52  1.00  1.50 324.0  15.0 292.4  2.0    0  0.00  75.   996.    4 NAD-SFC NoSubs
10  7  3 184  3   -3.8  0.101 -9.000 -9.000 -999.   77.    23.7 0.2930  0.52  1.00  1.00 336.0  15.0 292.0  2.0    0  0.00  74.   996.    4 NAD-SFC NoSubs
10  7  3 184  4   -1.6  0.083 -9.000 -9.000 -999.   58.    31.7 0.2930  0.52  1.00  0.50 337.0  15.0 291.6  2.0    0  0.00  74.   996.    3 NAD-SFC NoSubs
10  7  3 184  5   -3.8  0.100 -9.000 -9.000 -999.   76.    23.3 0.2720  0.52  1.00  1.00 311.0  15.0 291.1  2.0    0  0.00  75.   996.    3 NAD-SFC NoSubs
10  7  3 184  6   -1.7  0.086 -9.000 -9.000 -999.   61.    33.6 0.2160  0.52  0.47  1.00 298.0  15.0 291.0  2.0    0  0.00  76.   997.    3 NAD-SFC NoSubs
10  7  3 184  7   38.7  0.150  0.647  0.007  249.  140.    -7.8 0.2720  0.52  0.28  1.00 326.0  15.0 292.6  2.0    0  0.00  67.   998.    3 NAD-SFC NoSubs
10  7  3 184  8   83.7 -9.000 -9.000 -9.000  373. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 294.2  2.0    0  0.00  61.   998.    3 NAD-SFC NoSubs
10  7  3 184  9  123.2 -9.000 -9.000 -9.000  540. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 295.6  2.0    0  0.00  55.   997.    3 NAD-SFC NoSubs
10  7  3 184 10  154.8 -9.000 -9.000 -9.000  709. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 297.2  2.0    0  0.00  49.   997.    2 NAD-SFC NoSubs
10  7  3 184 11  177.2 -9.000 -9.000 -9.000  882. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 298.8  2.0    0  0.00  44.   997.    2 NAD-SFC NoSubs
10  7  3 184 12  188.5 -9.000 -9.000 -9.000 1077. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 300.0  2.0    0  0.00  40.   996.    2 NAD-SFC NoSubs
10  7  3 184 13  189.3  0.115  1.898  0.012 1286.   94.    -1.0 0.2160  0.52  0.19  0.50 299.0  15.0 301.1  2.0    0  0.00  37.   996.    2 NAD-SFC NoSubs
10  7  3 184 14  179.6  0.182  1.905  0.013 1369.  186.    -3.0 0.2720  0.52  0.19  1.00 326.0  15.0 302.1  2.0    0  0.00  34.   995.    2 NAD-SFC NoSubs
10  7  3 184 15  158.7  0.234  1.845  0.012 1406.  272.    -7.2 0.2930  0.52  0.19  1.50 347.0  15.0 302.8  2.0    0  0.00  31.   995.    2 NAD-SFC NoSubs
10  7  3 184 16  127.9 -9.000 -9.000 -9.000 1435. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 302.9  2.0    0  0.00  30.   995.    2 NAD-SFC NoSubs
10  7  3 184 17   88.7  0.369  1.537  0.012 1454.  538.   -50.2 0.2940  0.52  0.22  3.10  12.0  15.0 302.5  2.0    0  0.00  34.   995.    2 NAD-SFC NoSubs
10  7  3 184 18   43.6  0.305  1.215  0.012 1463.  407.   -57.9 0.2940  0.52  0.27  2.60  17.0  15.0 301.8  2.0    0  0.00  42.   995.    2 NAD-SFC NoSubs
10  7  3 184 19   -0.8  0.322 -9.000 -9.000 -999.  439.  3681.9 0.2940  0.52  0.46  3.10   7.0  15.0 301.0  2.0    0  0.00  42.   996.    2 NAD-SFC NoSubs
10  7  3 184 20   -8.1  0.140 -9.000 -9.000 -999.  157.    29.9 0.2930  0.52  1.00  1.50 349.0  15.0 299.8  2.0    0  0.00  44.   996.    2 NAD-SFC NoSubs
10  7  3 184 21   -6.5  0.122 -9.000 -9.000 -999.  103.    25.0 0.1750  0.52  1.00  1.50 256.0  15.0 298.4  2.0    0  0.00  47.   997.    2 NAD-SFC NoSubs
10  7  3 184 22  -36.7  0.353 -9.000 -9.000 -999.  503.   106.6 0.1750  0.52  1.00  4.10 265.0  15.0 296.0  2.0    0  0.00  56.   997.    2 NAD-SFC NoSubs
10  7  3 184 23  -32.2  0.308 -9.000 -9.000 -999.  412.    80.8 0.1750  0.52  1.00  3.60 265.0  15.0 294.4  2.0    0  0.00  62.   997.    2 NAD-SFC NoSubs
10  7  3 184 24  -13.0  0.173 -9.000 -9.000 -999.  184.    35.5 0.1750  0.52  1.00  2.10 251.0  15.0 293.8  2.0    0  0.00  64.   997.    2 NAD-SFC NoSubs
10  7  4 185  1   -3.3  0.093 -9.000 -9.000 -999.   72.    21.7 0.1750  0.52  1.00  1.00 245.0  15.0 293.1  2.0    0  0.00  65.   998.    2 NAD-SFC NoSubs
10  7  4 185  2   -3.3  0.093 -9.000 -9.000 -999.   69.    21.7 0.1750  0.52  1.00  1.00 269.0  15.0 292.6  2.0    0  0.00  66.   998.    2 NAD-SFC NoSubs
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10  7  4 185  3  -14.3  0.183 -9.000 -9.000 -999.  188.     38.2  0.2160  0.52  1.00  2.10  290.0  15.0  292.1  2.0   0  0.00  67.   998.   2 NAD-SFC NoSubs
10  7  4 185  4  -24.8  0.246 -9.000 -9.000 -999.  293.     53.5  0.2720  0.52  1.00  2.60  301.0  15.0  291.4  2.0   0  0.00  69.   999.   2 NAD-SFC NoSubs
10  7  4 185  5  -15.9  0.195 -9.000 -9.000 -999.  208.     41.7  0.2720  0.52  1.00  2.10  306.0  15.0  290.8  2.0   0  0.00  71.   999.   2 NAD-SFC NoSubs
10  7  4 185  6   -5.0  0.141 -9.000 -9.000 -999.  128.     50.0  0.2720  0.52  0.47  1.50  305.0  15.0  290.5  2.0   0  0.00  72.  1000.   2 NAD-SFC NoSubs
10  7  4 185  7   37.1  0.256  0.538  0.008  150.  310.    -40.2  0.2930  0.52  0.28  2.10  331.0  15.0  292.2  2.0   0  0.00  62.  1000.   2 NAD-SFC NoSubs
10  7  4 185  8   82.7  0.108  0.868  0.008  282.  104.     -1.4  0.2720  0.52  0.22  0.50  319.0  15.0  294.1  2.0   0  0.00  53.  1000.   2 NAD-SFC NoSubs
10  7  4 185  9  122.8 -9.000 -9.000 -9.000  411. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  295.9  2.0   0  0.00  47.  1000.   2 NAD-SFC NoSubs
10  7  4 185 10  154.8 -9.000 -9.000 -9.000  574. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  297.8  2.0   0  0.00  43.  1000.   2 NAD-SFC NoSubs
10  7  4 185 11  177.4 -9.000 -9.000 -9.000  770. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  299.4  2.0   0  0.00  38.   999.   2 NAD-SFC NoSubs
10  7  4 185 12  188.9 -9.000 -9.000 -9.000  983. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.0  2.0   0  0.00  35.   999.   2 NAD-SFC NoSubs
10  7  4 185 13  190.0 -9.000 -9.000 -9.000 1107. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  302.6  2.0   0  0.00  31.   998.   2 NAD-SFC NoSubs
10  7  4 185 14  180.4  0.122  1.831  0.011 1213.  103.     -1.0  0.2930  0.52  0.19  0.50  349.0  15.0  303.8  2.0   0  0.00  29.   998.   2 NAD-SFC NoSubs
10  7  4 185 15  159.4  0.182  1.798  0.012 1300.  186.     -3.4  0.2940  0.52  0.19  1.00   13.0  15.0  304.2  2.0   0  0.00  28.   997.   2 NAD-SFC NoSubs
10  7  4 185 16  128.9  0.229  1.698  0.012 1353.  263.     -8.3  0.2940  0.52  0.20  1.50   25.0  15.0  304.9  2.0   0  0.00  29.   997.   2 NAD-SFC NoSubs
10  7  4 185 17   89.7  0.277  1.513  0.011 1374.  350.    -21.1  0.2940  0.52  0.22  2.10   18.0  15.0  304.5  2.0   0  0.00  32.   997.   2 NAD-SFC NoSubs
10  7  4 185 18   44.5  0.260  1.201  0.011 1384.  318.    -34.9  0.2940  0.52  0.27  2.10   14.0  15.0  303.8  2.0   0  0.00  42.   997.   2 NAD-SFC NoSubs
10  7  4 185 19    0.5 -9.000 -9.000 -9.000 1383. -999. -99999.0  0.2235  0.52  0.46  0.00    0.0  15.0  302.9  2.0   0  0.00  44.   997.   2 NAD-SFC NoSubs
10  7  4 185 20  -30.3  0.297 -9.000 -9.000 -999.  388.     76.7  0.2720  0.52  1.00  3.10  317.0  15.0  301.6  2.0   0  0.00  47.   998.   2 NAD-SFC NoSubs
10  7  4 185 21  -48.4  0.468 -9.000 -9.000 -999.  767.    188.0  0.2160  0.52  1.00  5.10  285.0  15.0  297.4  2.0   0  0.00  62.   998.   2 NAD-SFC NoSubs
10  7  4 185 22  -38.9  0.373 -9.000 -9.000 -999.  552.    118.3  0.2160  0.52  1.00  4.10  284.0  15.0  294.9  2.0   0  0.00  70.   999.   2 NAD-SFC NoSubs
10  7  4 185 23  -34.1  0.325 -9.000 -9.000 -999.  447.     90.0  0.2160  0.52  1.00  3.60  277.0  15.0  294.1  2.0   0  0.00  70.   999.   2 NAD-SFC NoSubs
10  7  4 185 24  -24.7  0.246 -9.000 -9.000 -999.  296.     53.7  0.2720  0.52  1.00  2.60  311.0  15.0  293.8  2.0   0  0.00  68.   999.   2 NAD-SFC NoSubs
10  7  5 186  1  -16.5  0.200 -9.000 -9.000 -999.  215.     43.3  0.2940  0.52  1.00  2.10   16.0  15.0  293.2  2.0   0  0.00  69.  1000.   2 NAD-SFC NoSubs
10  7  5 186  2  -15.2  0.190 -9.000 -9.000 -999.  199.     40.3  0.2470  0.52  1.00  2.10   53.0  15.0  292.8  2.0   0  0.00  70.  1000.   2 NAD-SFC NoSubs
10  7  5 186  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  292.5  2.0   0  0.00  70.  1000.   2 NAD-SFC NoSubs
10  7  5 186  4   -1.5  0.080 -9.000 -9.000 -999.   54.     31.1  0.1900  0.52  1.00  0.50  202.0  15.0  292.0  2.0   0  0.00  72.  1000.   2 NAD-SFC NoSubs
10  7  5 186  5   -1.5  0.080 -9.000 -9.000 -999.   54.     31.1  0.1900  0.52  1.00  0.50  207.0  15.0  291.5  2.0   0  0.00  74.  1000.   2 NAD-SFC NoSubs
10  7  5 186  6   -0.6  0.055 -9.000 -9.000 -999.   31.     23.5  0.1950  0.52  0.48  0.50  226.0  15.0  291.2  2.0   0  0.00  76.  1001.   2 NAD-SFC NoSubs
10  7  5 186  7   37.3  0.092  0.511  0.009  128.   67.     -1.9  0.2160  0.52  0.28  0.50  283.0  15.0  293.8  2.0   0  0.00  64.  1001.   2 NAD-SFC NoSubs
10  7  5 186  8   83.0 -9.000 -9.000 -9.000  270. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  295.8  2.0   0  0.00  57.  1000.   2 NAD-SFC NoSubs
10  7  5 186  9  123.2  0.108  1.149  0.007  440.   86.     -1.0  0.2160  0.52  0.20  0.50  283.0  15.0  297.6  2.0   0  0.00  51.  1000.   2 NAD-SFC NoSubs
10  7  5 186 10  155.4 -9.000 -9.000 -9.000  627. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  299.5  2.0   0  0.00  45.   999.   2 NAD-SFC NoSubs
10  7  5 186 11  178.3 -9.000 -9.000 -9.000  793. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.6  2.0   0  0.00  36.   999.   2 NAD-SFC NoSubs
10  7  5 186 12  189.9 -9.000 -9.000 -9.000  940. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  303.2  2.0   0  0.00  31.   998.   2 NAD-SFC NoSubs
10  7  5 186 13  190.9 -9.000 -9.000 -9.000 1027. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  304.6  2.0   0  0.00  28.   997.   2 NAD-SFC NoSubs
10  7  5 186 14  181.4 -9.000 -9.000 -9.000 1091. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  305.6  2.0   0  0.00  27.   997.   2 NAD-SFC NoSubs
10  7  5 186 15  160.6  0.119  1.729  0.009 1146.   98.     -1.0  0.2720  0.52  0.19  0.50  325.0  15.0  306.4  2.0   0  0.00  26.   996.   2 NAD-SFC NoSubs
10  7  5 186 16  129.9  0.177  1.631  0.008 1187.  179.     -3.8  0.2930  0.52  0.20  1.00  345.0  15.0  306.8  2.0   0  0.00  25.   996.   2 NAD-SFC NoSubs
10  7  5 186 17   90.9  0.277  1.459  0.008 1215.  350.    -20.8  0.2930  0.52  0.22  2.10  344.0  15.0  306.6  2.0   0  0.00  29.   996.   2 NAD-SFC NoSubs
10  7  5 186 18   45.4  0.346  1.161  0.008 1227.  488.    -80.9  0.2720  0.52  0.27  3.10  307.0  15.0  305.4  2.0   0  0.00  40.   997.   2 NAD-SFC NoSubs
10  7  5 186 19   -1.1  0.441 -9.000 -9.000 -999.  702.   7011.5  0.2160  0.52  0.46  4.60  281.0  15.0  301.2  2.0   0  0.00  53.   997.   2 NAD-SFC NoSubs
10  7  5 186 20  -43.5  0.420 -9.000 -9.000 -999.  654.    151.6  0.2160  0.52  1.00  4.60  283.0  15.0  297.4  2.0   0  0.00  62.   998.   2 NAD-SFC NoSubs
10  7  5 186 21  -43.8  0.420 -9.000 -9.000 -999.  653.    150.4  0.2160  0.52  1.00  4.60  281.0  15.0  295.1  2.0   0  0.00  66.   998.   2 NAD-SFC NoSubs
10  7  5 186 22  -39.1  0.372 -9.000 -9.000 -999.  547.    117.7  0.2160  0.52  1.00  4.10  276.0  15.0  293.5  2.0   0  0.00  71.   999.   2 NAD-SFC NoSubs
10  7  5 186 23  -31.2  0.296 -9.000 -9.000 -999.  391.     74.3  0.2720  0.52  1.00  3.10  316.0  15.0  292.6  2.0   0  0.00  74.   999.   2 NAD-SFC NoSubs
10  7  5 186 24  -37.4  0.354 -9.000 -9.000 -999.  506.    105.9  0.2930  0.52  1.00  3.60  354.0  15.0  291.9  2.0   0  0.00  75.   999.   2 NAD-SFC NoSubs
10  7  6 187  1  -36.6  0.355 -9.000 -9.000 -999.  507.    108.5  0.2930  0.52  1.00  3.60  339.0  15.0  291.1  2.0   0  0.00  78.   999.   3 NAD-SFC NoSubs
10  7  6 187  2  -36.7  0.354 -9.000 -9.000 -999.  507.    108.3  0.2930  0.52  1.00  3.60  349.0  15.0  290.5  2.0   0  0.00  79.  1000.   3 NAD-SFC NoSubs
10  7  6 187  3  -36.8  0.354 -9.000 -9.000 -999.  507.    108.1  0.2930  0.52  1.00  3.60  354.0  15.0  289.9  2.0   0  0.00  80.  1000.   3 NAD-SFC NoSubs
10  7  6 187  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  289.5  2.0   0  0.00  81.  1000.   3 NAD-SFC NoSubs
10  7  6 187  5  -31.5  0.303 -9.000 -9.000 -999.  401.     79.0  0.2940  0.52  1.00  3.10    9.0  15.0  289.1  2.0   0  0.00  82.  1000.   3 NAD-SFC NoSubs
10  7  6 187  6   -7.7  0.207 -9.000 -9.000 -999.  230.    102.9  0.2940  0.52  0.48  2.10    2.0  15.0  289.4  2.0   0  0.00  80.  1000.   3 NAD-SFC NoSubs
10  7  6 187  7   37.1  0.099  0.545  0.013  155.   82.     -2.3  0.2940  0.52  0.28  0.50   13.0  15.0  290.8  2.0   0  0.00  72.  1001.   3 NAD-SFC NoSubs
10  7  6 187  8   82.5 -9.000 -9.000 -9.000  266. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  292.9  2.0   0  0.00  66.  1000.   3 NAD-SFC NoSubs
10  7  6 187  9  121.9 -9.000 -9.000 -9.000  385. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  294.9  2.0   0  0.00  59.  1000.   2 NAD-SFC NoSubs
10  7  6 187 10  154.2 -9.000 -9.000 -9.000  505. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  297.1  2.0   0  0.00  53.   999.   2 NAD-SFC NoSubs
10  7  6 187 11  177.0 -9.000 -9.000 -9.000  616. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  299.2  2.0   0  0.00  47.   999.   2 NAD-SFC NoSubs
10  7  6 187 12  188.8 -9.000 -9.000 -9.000  750. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.1  2.0   0  0.00  42.   998.   2 NAD-SFC NoSubs
10  7  6 187 13  189.9  0.121  1.675  0.009  882.  101.     -1.0  0.2720  0.52  0.19  0.50  308.0  15.0  302.8  2.0   0  0.00  37.   997.   2 NAD-SFC NoSubs
10  7  6 187 14  180.4  0.120  1.711  0.009  988.  100.     -1.0  0.2720  0.52  0.19  0.50  311.0  15.0  303.9  2.0   0  0.00  33.   996.   2 NAD-SFC NoSubs
10  7  6 187 15  159.6  0.182  1.681  0.008 1058.  186.     -3.3  0.2930  0.52  0.19  1.00  338.0  15.0  304.8  2.0   0  0.00  31.   996.   2 NAD-SFC NoSubs
10  7  6 187 16  129.0  0.287  1.592  0.008 1112.  369.    -16.2  0.2930  0.52  0.20  2.10  354.0  15.0  305.0  2.0   0  0.00  31.   995.   2 NAD-SFC NoSubs
10  7  6 187 17   89.8  0.323  1.425  0.008 1146.  440.    -33.3  0.2930  0.52  0.22  2.60  348.0  15.0  304.6  2.0   0  0.00  39.   995.   2 NAD-SFC NoSubs
10  7  6 187 18   44.2  0.391  1.130  0.008 1160.  586.   -119.9  0.2720  0.52  0.27  3.60  322.0  15.0  303.2  2.0   0  0.00  47.   996.   2 NAD-SFC NoSubs
10  7  6 187 19   -4.3  0.518 -9.000 -9.000 -999.  895.   2858.4  0.2720  0.52  0.46  5.10  305.0  15.0  299.8  2.0   0  0.00  53.   997.   2 NAD-SFC NoSubs
10  7  6 187 20  -48.5  0.468 -9.000 -9.000 -999.  770.    187.2  0.2160  0.52  1.00  5.10  280.0  15.0  296.2  2.0   0  0.00  58.   997.   2 NAD-SFC NoSubs
10  7  6 187 21  -49.0  0.467 -9.000 -9.000 -999.  767.    185.7  0.2160  0.52  1.00  5.10  282.0  15.0  293.9  2.0   0  0.00  64.   998.   2 NAD-SFC NoSubs
10  7  6 187 22  -39.2  0.372 -9.000 -9.000 -999.  552.    117.3  0.2160  0.52  1.00  4.10  285.0  15.0  292.6  2.0   0  0.00  67.   998.   2 NAD-SFC NoSubs
10  7  6 187 23  -22.2  0.230 -9.000 -9.000 -999.  280.     49.0  0.2160  0.52  1.00  2.60  298.0  15.0  291.8  2.0   0  0.00  68.   998.   2 NAD-SFC NoSubs
10  7  6 187 24  -25.7  0.252 -9.000 -9.000 -999.  303.     55.1  0.2930  0.52  1.00  2.60  345.0  15.0  291.4  2.0   0  0.00  68.   999.   2 NAD-SFC NoSubs
10  7  7 188  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  290.8  2.0   0  0.00  69.   999.   2 NAD-SFC NoSubs
10  7  7 188  2  -25.5  0.252 -9.000 -9.000 -999.  304.     55.9  0.2940  0.52  1.00  2.60    5.0  15.0  290.2  2.0   0  0.00  70.   999.   3 NAD-SFC NoSubs
10  7  7 188  3  -16.5  0.200 -9.000 -9.000 -999.  215.     42.9  0.2930  0.52  1.00  2.10  359.0  15.0  290.0  2.0   0  0.00  70.   999.   2 NAD-SFC NoSubs
10  7  7 188  4   -8.2  0.140 -9.000 -9.000 -999.  126.     29.8  0.2930  0.52  1.00  1.50  347.0  15.0  289.8  2.0   0  0.00  70.   999.   3 NAD-SFC NoSubs
10  7  7 188  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  289.4  2.0   0  0.00  71.   999.   3 NAD-SFC NoSubs
10  7  7 188  6   -2.4  0.093 -9.000 -9.000 -999.   68.     29.9  0.2940  0.52  0.48  1.00   22.0  15.0  289.4  2.0   0  0.00  72.  1000.   2 NAD-SFC NoSubs
10  7  7 188  7   35.9 -9.000 -9.000 -9.000  133. -999. -99999.0  0.2235  0.52  0.28  0.00    0.0  15.0  291.4  2.0   0  0.00  64.  1000.   2 NAD-SFC NoSubs
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10  7  7 188  8   81.6 -9.000 -9.000 -9.000  280. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 293.2  2.0   0  0.00  57. 1000.   2 NAD-SFC NoSubs
10  7  7 188  9  121.7 -9.000 -9.000 -9.000  434. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 295.0  2.0   0  0.00  53.  999.   2 NAD-SFC NoSubs
10  7  7 188 10  154.0 -9.000 -9.000 -9.000  580. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 297.0  2.0   0  0.00  49.  999.   2 NAD-SFC NoSubs
10  7  7 188 11  177.0 -9.000 -9.000 -9.000  725. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 299.4  2.0   0  0.00  43.  998.   2 NAD-SFC NoSubs
10  7  7 188 12  188.9 -9.000 -9.000 -9.000  864. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 301.5  2.0   0  0.00  37.  997.   2 NAD-SFC NoSubs
10  7  7 188 13  190.0 -9.000 -9.000 -9.000  981. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 303.1  2.0   0  0.00  34.  996.   2 NAD-SFC NoSubs
10  7  7 188 14  180.5  0.122  1.744  0.011 1046.  103.     -1.0 0.2930  0.52  0.19  0.50 347.0  15.0 304.2  2.0   0  0.00  32.  996.   2 NAD-SFC NoSubs
10  7  7 188 15  159.8  0.235  1.704  0.011 1101.  273.     -7.2 0.2940  0.52  0.19  1.50  10.0  15.0 305.0  2.0   0  0.00  31.  995.   2 NAD-SFC NoSubs
10  7  7 188 16  129.0  0.334  1.607  0.011 1143.  463.    -25.6 0.2940  0.52  0.20  2.60  19.0  15.0 305.2  2.0   0  0.00  32.  995.   2 NAD-SFC NoSubs
10  7  7 188 17   89.7  0.369  1.435  0.010 1170.  538.    -49.8 0.2940  0.52  0.22  3.10  20.0  15.0 304.6  2.0   0  0.00  39.  995.   2 NAD-SFC NoSubs
10  7  7 188 18   44.5 -9.000 -9.000 -9.000 1183. -999. -99999.0 0.2235  0.52  0.27  0.00   0.0  15.0 303.9  2.0   0  0.00  46.  995.   2 NAD-SFC NoSubs
10  7  7 188 19   -1.3  0.520 -9.000 -9.000 -999.  900.   8888.0 0.2720  0.52  0.46  5.10 314.0  15.0 301.5  2.0   0  0.00  53.  996.   2 NAD-SFC NoSubs
10  7  7 188 20  -59.4  0.573 -9.000 -9.000 -999. 1040.    281.8 0.2160  0.52  1.00  6.20 276.0  15.0 296.8  2.0   0  0.00  63.  997.   2 NAD-SFC NoSubs
10  7  7 188 21  -54.8  0.525 -9.000 -9.000 -999.  916.    234.5 0.2160  0.52  1.00  5.70 279.0  15.0 294.4  2.0   0  0.00  63.  997.   2 NAD-SFC NoSubs
10  7  7 188 22  -49.1  0.467 -9.000 -9.000 -999.  771.    185.0 0.2160  0.52  1.00  5.10 279.0  15.0 292.9  2.0   0  0.00  65.  998.   2 NAD-SFC NoSubs
10  7  7 188 23  -29.3  0.278 -9.000 -9.000 -999.  383.     65.2 0.2160  0.52  1.00  3.10 278.0  15.0 292.0  2.0   0  0.00  67.  998.   2 NAD-SFC NoSubs
10  7  7 188 24   -8.2  0.140 -9.000 -9.000 -999.  144.     29.5 0.2930  0.52  1.00  1.50 336.0  15.0 291.8  2.0   0  0.00  65.  999.   2 NAD-SFC NoSubs
10  7  8 189  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 291.2  2.0   0  0.00  65.  999.   2 NAD-SFC NoSubs
10  7  8 189  2   -1.7  0.084 -9.000 -9.000 -999.   59.     32.0 0.2930  0.52  1.00  0.50 352.0  15.0 290.9  2.0   0  0.00  65.  999.   2 NAD-SFC NoSubs
10  7  8 189  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 290.6  2.0   0  0.00  65.  999.   2 NAD-SFC NoSubs
10  7  8 189  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 290.5  2.0   0  0.00  64.  999.   2 NAD-SFC NoSubs
10  7  8 189  5   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4 0.2090  0.52  1.00  0.50  78.0  15.0 290.0  2.0   0  0.00  68. 1000.   2 NAD-SFC NoSubs
10  7  8 189  6   17.1 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  0.48  0.00   0.0  15.0 289.8  2.0   0  0.00  71. 1000.   2 NAD-SFC NoSubs
10  7  8 189  7   35.8 -9.000 -9.000 -9.000  170. -999. -99999.0 0.2235  0.52  0.28  0.00   0.0  15.0 292.1  2.0   0  0.00  61. 1000.   2 NAD-SFC NoSubs
10  7  8 189  8   81.5 -9.000 -9.000 -9.000  320. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 294.0  2.0   0  0.00  58. 1000.   2 NAD-SFC NoSubs
10  7  8 189  9  121.7 -9.000 -9.000 -9.000  478. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 295.5  2.0   0  0.00  56. 1000.   2 NAD-SFC NoSubs
10  7  8 189 10  154.0 -9.000 -9.000 -9.000  631. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 297.4  2.0   0  0.00  52. 1000.   2 NAD-SFC NoSubs
10  7  8 189 11  176.9 -9.000 -9.000 -9.000  748. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 299.8  2.0   0  0.00  46.  999.   2 NAD-SFC NoSubs
10  7  8 189 12  188.8 -9.000 -9.000 -9.000  851. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 301.8  2.0   0  0.00  39.  998.   2 NAD-SFC NoSubs
10  7  8 189 13  190.1  0.123  1.715  0.012  945.  104.     -1.0 0.2930  0.52  0.19  0.50 332.0  15.0 303.4  2.0   0  0.00  35.  997.   2 NAD-SFC NoSubs
10  7  8 189 14  180.6  0.185  1.726  0.012 1013.  191.     -3.1 0.2930  0.52  0.19  1.00 347.0  15.0 304.5  2.0   0  0.00  33.  996.   2 NAD-SFC NoSubs
10  7  8 189 15  159.8 -9.000 -9.000 -9.000 1065. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 305.2  2.0   0  0.00  32.  996.   2 NAD-SFC NoSubs
10  7  8 189 16  129.0  0.380  1.588  0.011 1104.  562.    -37.8 0.2940  0.52  0.20  3.10  13.0  15.0 305.2  2.0   0  0.00  34.  996.   2 NAD-SFC NoSubs
10  7  8 189 17   89.6  0.369  1.417  0.011 1130.  539.    -49.9 0.2940  0.52  0.22  3.10  23.0  15.0 304.6  2.0   0  0.00  43.  996.   2 NAD-SFC NoSubs
10  7  8 189 18   44.6  0.306  1.127  0.011 1142.  408.    -56.9 0.2940  0.52  0.27  2.60   6.0  15.0 304.2  2.0   0  0.00  48.  996.   2 NAD-SFC NoSubs
10  7  8 189 19    0.5  0.387  0.257  0.011 1141.  578.  -8888.0 0.2160  0.52  0.46  4.10 299.0  15.0 303.5  2.0   0  0.00  48.  997.   2 NAD-SFC NoSubs
10  7  8 189 20  -56.0  0.543 -9.000 -9.000 -999.  960.    254.1 0.1750  0.52  1.00  6.20 267.0  15.0 298.1  2.0   0  0.00  62.  997.   2 NAD-SFC NoSubs
10  7  8 189 21  -54.7  0.525 -9.000 -9.000 -999.  914.    235.2 0.2160  0.52  1.00  5.70 271.0  15.0 295.2  2.0   0  0.00  63.  998.   2 NAD-SFC NoSubs
10  7  8 189 22  -39.0  0.372 -9.000 -9.000 -999.  565.    117.9 0.2160  0.52  1.00  4.10 278.0  15.0 294.0  2.0   0  0.00  66.  998.   2 NAD-SFC NoSubs
10  7  8 189 23  -29.2  0.278 -9.000 -9.000 -999.  358.     65.5 0.2160  0.52  1.00  3.10 288.0  15.0 293.1  2.0   0  0.00  68.  999.   2 NAD-SFC NoSubs
10  7  8 189 24  -24.7  0.246 -9.000 -9.000 -999.  293.     53.6 0.2720  0.52  1.00  2.60 313.0  15.0 292.4  2.0   0  0.00  68.  999.   2 NAD-SFC NoSubs
10  7  9 190  1  -16.3  0.200 -9.000 -9.000 -999.  215.     43.8 0.2930  0.52  1.00  2.10 333.0  15.0 291.9  2.0   0  0.00  69.  999.   3 NAD-SFC NoSubs
10  7  9 190  2   -3.9  0.102 -9.000 -9.000 -999.   82.     23.7 0.2930  0.52  1.00  1.00 342.0  15.0 291.6  2.0   0  0.00  69. 1000.   3 NAD-SFC NoSubs
10  7  9 190  3   -1.5  0.081 -9.000 -9.000 -999.   56.     31.4 0.2470  0.52  1.00  0.50  32.0  15.0 291.4  2.0   0  0.00  69. 1000.   3 NAD-SFC NoSubs
10  7  9 190  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 291.2  2.0   0  0.00  70. 1000.   2 NAD-SFC NoSubs
10  7  9 190  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 290.8  2.0   0  0.00  72. 1000.   2 NAD-SFC NoSubs
10  7  9 190  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  0.49  0.00   0.0  15.0 290.8  2.0   0  0.00  74. 1001.   2 NAD-SFC NoSubs
10  7  9 190  7   35.6  0.098  0.526  0.010  145.   74.     -2.4 0.2940  0.52  0.28  0.50  11.0  15.0 292.8  2.0   0  0.00  66. 1001.   2 NAD-SFC NoSubs
10  7  9 190  8   81.5 -9.000 -9.000 -9.000  289. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 294.8  2.0   0  0.00  63. 1000.   2 NAD-SFC NoSubs
10  7  9 190  9  121.8 -9.000 -9.000 -9.000  440. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 296.5  2.0   0  0.00  59. 1000.   2 NAD-SFC NoSubs
10  7  9 190 10  154.1 -9.000 -9.000 -9.000  585. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 298.2  2.0   0  0.00  56. 1000.   2 NAD-SFC NoSubs
10  7  9 190 11  177.2 -9.000 -9.000 -9.000  722. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 300.8  2.0   0  0.00  49.  999.   2 NAD-SFC NoSubs
10  7  9 190 12  189.2 -9.000 -9.000 -9.000  847. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 302.6  2.0   0  0.00  44.  998.   2 NAD-SFC NoSubs
10  7  9 190 13  190.4  0.121  1.723  0.013  958.  101.     -1.0 0.2720  0.52  0.19  0.50 308.0  15.0 304.2  2.0   0  0.00  39.  997.   2 NAD-SFC NoSubs
10  7  9 190 14  180.9  0.185  1.734  0.013 1026.  191.     -3.1 0.2930  0.52  0.19  1.00 332.0  15.0 305.2  2.0   0  0.00  36.  997.   2 NAD-SFC NoSubs
10  7  9 190 15  160.2  0.293  1.694  0.013 1080.  381.    -14.0 0.2930  0.52  0.19  2.10 348.0  15.0 306.0  2.0   0  0.00  34.  996.   2 NAD-SFC NoSubs
10  7  9 190 16  129.6 -9.000 -9.000 -9.000 1121. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 306.4  2.0   0  0.00  32.  996.   2 NAD-SFC NoSubs
10  7  9 190 17   90.1  0.369  1.427  0.013 1147.  539.    -49.7 0.2940  0.52  0.22  3.10  24.0  15.0 305.6  2.0   0  0.00  42.  996.   2 NAD-SFC NoSubs
10  7  9 190 18   44.9  0.352  1.136  0.013 1160.  501.    -86.1 0.2940  0.52  0.27  3.10  16.0  15.0 305.0  2.0   0  0.00  49.  996.   2 NAD-SFC NoSubs
10  7  9 190 19    0.8  0.316  0.294  0.013 1158.  428.  -3609.0 0.2930  0.52  0.46  3.10 346.0  15.0 304.2  2.0   0  0.00  49.  997.   2 NAD-SFC NoSubs
10  7  9 190 20  -53.7  0.525 -9.000 -9.000 -999.  913.    240.2 0.2160  0.52  1.00  5.70 285.0  15.0 301.2  2.0   0  0.00  57.  998.   2 NAD-SFC NoSubs
10  7  9 190 21  -54.5  0.525 -9.000 -9.000 -999.  913.    236.4 0.2160  0.52  1.00  5.70 271.0  15.0 296.8  2.0   0  0.00  67.  998.   2 NAD-SFC NoSubs
10  7  9 190 22  -48.8  0.468 -9.000 -9.000 -999.  771.    186.5 0.2160  0.52  1.00  5.10 274.0  15.0 295.2  2.0   0  0.00  68.  998.   2 NAD-SFC NoSubs
10  7  9 190 23  -34.1  0.325 -9.000 -9.000 -999.  461.     90.0 0.2160  0.52  1.00  3.60 280.0  15.0 294.2  2.0   0  0.00  70.  999.   2 NAD-SFC NoSubs
10  7  9 190 24  -24.7  0.246 -9.000 -9.000 -999.  297.     53.7 0.2720  0.52  1.00  2.60 314.0  15.0 293.6  2.0   0  0.00  70.  999.   2 NAD-SFC NoSubs
10  7 10 191  1  -16.4  0.200 -9.000 -9.000 -999.  215.     43.2 0.2930  0.52  1.00  2.10 345.0  15.0 293.2  2.0   0  0.00  70.  999.   2 NAD-SFC NoSubs
10  7 10 191  2   -8.2  0.140 -9.000 -9.000 -999.  126.     29.6 0.2930  0.52  1.00  1.50 341.0  15.0 292.8  2.0   0  0.00  70.  999.   2 NAD-SFC NoSubs
10  7 10 191  3   -3.9  0.101 -9.000 -9.000 -999.   77.     23.3 0.2720  0.52  1.00  1.00 312.0  15.0 292.5  2.0   0  0.00  69. 1000.   2 NAD-SFC NoSubs
10  7 10 191  4   -3.6  0.097 -9.000 -9.000 -999.   72.     22.4 0.2160  0.52  1.00  1.00 294.0  15.0 292.2  2.0   0  0.00  69. 1000.   2 NAD-SFC NoSubs
10  7 10 191  5   -1.6  0.083 -9.000 -9.000 -999.   58.     31.9 0.2720  0.52  1.00  0.50 301.0  15.0 292.0  2.0   0  0.00  69. 1000.   2 NAD-SFC NoSubs
10  7 10 191  6   -0.8  0.061 -9.000 -9.000 -999.   36.     25.3 0.2720  0.52  0.49  0.50 309.0  15.0 292.0  2.0   0  0.00  69. 1001.   2 NAD-SFC NoSubs
10  7 10 191  7   35.6  0.149  0.517  0.010  138.  138.     -8.3 0.2720  0.52  0.29  1.00 325.0  15.0 293.9  2.0   0  0.00  62. 1002.   2 NAD-SFC NoSubs
10  7 10 191  8   81.5 -9.000 -9.000 -9.000  269. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 295.8  2.0   0  0.00  61. 1002.   2 NAD-SFC NoSubs
10  7 10 191  9  121.8 -9.000 -9.000 -9.000  427. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 297.2  2.0   0  0.00  58. 1001.   2 NAD-SFC NoSubs
10  7 10 191 10  154.3 -9.000 -9.000 -9.000  587. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 299.1  2.0   0  0.00  54. 1001.   2 NAD-SFC NoSubs
10  7 10 191 11  177.1 -9.000 -9.000 -9.000  742. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 300.8  2.0   0  0.00  51. 1000.   2 NAD-SFC NoSubs
10  7 10 191 12  188.8 -9.000 -9.000 -9.000  889. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 302.2  2.0   0  0.00  48. 1000.   2 NAD-SFC NoSubs
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10  7 10 191 13  190.0 -9.000 -9.000 -9.000  999. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 303.8  2.0   0  0.00  44.  999.   2 NAD-SFC NoSubs
10  7 10 191 14  180.7  0.120  1.754  0.012 1065.  100.     -1.0 0.2720  0.52  0.19  0.50  315.0  15.0 305.0  2.0   0  0.00  40.  998.   2 NAD-SFC NoSubs
10  7 10 191 15  160.0  0.182  1.713  0.012 1120.  186.     -3.3 0.2930  0.52  0.19  1.00  346.0  15.0 305.8  2.0   0  0.00  38.  998.   2 NAD-SFC NoSubs
10  7 10 191 16  129.4 -9.000 -9.000 -9.000 1163. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 306.2  2.0   0  0.00  37.  997.   2 NAD-SFC NoSubs
10  7 10 191 17   90.3  0.323  1.445  0.012 1191.  441.    -33.3 0.2940  0.52  0.22  2.60   12.0  15.0 306.1  2.0   0  0.00  40.  997.   2 NAD-SFC NoSubs
10  7 10 191 18   45.3  0.260  1.152  0.012 1204.  319.    -34.5 0.2930  0.52  0.28  2.10  349.0  15.0 305.9  2.0   0  0.00  47.  998.   2 NAD-SFC NoSubs
10  7 10 191 19    0.1  0.481  0.165  0.012 1199.  801.  -8888.0 0.2160  0.52  0.46  5.10  292.0  15.0 303.2  2.0   0  0.00  53.  999.   2 NAD-SFC NoSubs
10  7 10 191 20  -48.3  0.468 -9.000 -9.000 -999.  768.    188.5 0.2160  0.52  1.00  5.10  274.0  15.0 298.2  2.0   0  0.00  59.  999.   2 NAD-SFC NoSubs
10  7 10 191 21  -43.8  0.420 -9.000 -9.000 -999.  655.    150.7 0.2160  0.52  1.00  4.60  284.0  15.0 295.8  2.0   0  0.00  60. 1000.   2 NAD-SFC NoSubs
10  7 10 191 22  -34.1  0.325 -9.000 -9.000 -999.  451.     90.1 0.2160  0.52  1.00  3.60  279.0  15.0 294.5  2.0   0  0.00  62. 1000.   2 NAD-SFC NoSubs
10  7 10 191 23  -24.7  0.246 -9.000 -9.000 -999.  296.     53.7 0.2720  0.52  1.00  2.60  301.0  15.0 293.8  2.0   0  0.00  63. 1000.   2 NAD-SFC NoSubs
10  7 10 191 24  -16.3  0.200 -9.000 -9.000 -999.  215.     43.9 0.2930  0.52  1.00  2.10  344.0  15.0 293.2  2.0   0  0.00  62. 1000.   3 NAD-SFC NoSubs
10  7 11 192  1  -36.5  0.355 -9.000 -9.000 -999.  507.    109.3 0.2940  0.52  1.00  3.60    6.0  15.0 292.6  2.0   0  0.00  65. 1000.   3 NAD-SFC NoSubs
10  7 11 192  2  -31.3  0.303 -9.000 -9.000 -999.  402.     79.5 0.2930  0.52  1.00  3.10  352.0  15.0 291.4  2.0   0  0.00  71. 1001.   3 NAD-SFC NoSubs
10  7 11 192  3  -24.6  0.246 -9.000 -9.000 -999.  294.     54.2 0.2720  0.52  1.00  2.60  321.0  15.0 290.8  2.0   0  0.00  72. 1001.   3 NAD-SFC NoSubs
10  7 11 192  4  -31.5  0.296 -9.000 -9.000 -999.  387.     73.8 0.2720  0.52  1.00  3.10  314.0  15.0 290.4  2.0   0  0.00  72. 1001.   2 NAD-SFC NoSubs
10  7 11 192  5  -24.6  0.246 -9.000 -9.000 -999.  294.     54.2 0.2720  0.52  1.00  2.60  301.0  15.0 290.2  2.0   0  0.00  71. 1001.   3 NAD-SFC NoSubs
10  7 11 192  6   -9.0  0.201 -9.000 -9.000 -999.  217.     80.8 0.2720  0.52  0.49  2.10  307.0  15.0 290.5  2.0   0  0.00  69. 1002.   3 NAD-SFC NoSubs
10  7 11 192  7   34.7  0.196  0.502  0.012  130.  208.    -19.3 0.2720  0.52  0.29  1.50  315.0  15.0 292.2  2.0   0  0.00  61. 1002.   2 NAD-SFC NoSubs
10  7 11 192  8   80.6 -9.000 -9.000 -9.000  234. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0 294.1  2.0   0  0.00  57. 1002.   2 NAD-SFC NoSubs
10  7 11 192  9  121.0 -9.000 -9.000 -9.000  371. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 295.9  2.0   0  0.00  54. 1002.   2 NAD-SFC NoSubs
10  7 11 192 10  153.5 -9.000 -9.000 -9.000  500. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 297.8  2.0   0  0.00  50. 1001.   2 NAD-SFC NoSubs
10  7 11 192 11  176.5 -9.000 -9.000 -9.000  619. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 299.8  2.0   0  0.00  46. 1000.   2 NAD-SFC NoSubs
10  7 11 192 12  188.2 -9.000 -9.000 -9.000  754. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 301.2  2.0   0  0.00  44.  999.   2 NAD-SFC NoSubs
10  7 11 192 13  189.4  0.115  1.675  0.010  884.   94.     -1.0 0.2160  0.52  0.19  0.50  298.0  15.0 302.8  2.0   0  0.00  42.  998.   2 NAD-SFC NoSubs
10  7 11 192 14  180.1  0.120  1.709  0.010  989.  100.     -1.0 0.2720  0.52  0.19  0.50  314.0  15.0 304.0  2.0   0  0.00  40.  998.   2 NAD-SFC NoSubs
10  7 11 192 15  159.4  0.182  1.681  0.011 1061.  186.     -3.4 0.2930  0.52  0.19  1.00  344.0  15.0 304.8  2.0   0  0.00  38.  997.   2 NAD-SFC NoSubs
10  7 11 192 16  128.7 -9.000 -9.000 -9.000 1115. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 305.1  2.0   0  0.00  38.  997.   2 NAD-SFC NoSubs
10  7 11 192 17   89.6  0.323  1.426  0.011 1151.  441.    -33.5 0.2940  0.52  0.22  2.60    9.0  15.0 305.0  2.0   0  0.00  42.  997.   2 NAD-SFC NoSubs
10  7 11 192 18   44.6  0.255  1.135  0.011 1168.  311.    -33.2 0.2720  0.52  0.28  2.10  329.0  15.0 304.9  2.0   0  0.00  47.  998.   2 NAD-SFC NoSubs
10  7 11 192 19   -3.8  0.487 -9.000 -9.000 -999.  815.   2717.9 0.2160  0.52  0.46  5.10  284.0  15.0 301.2  2.0   0  0.00  54.  999.   2 NAD-SFC NoSubs
10  7 11 192 20  -41.3  0.398 -9.000 -9.000 -999.  609.    136.0 0.1750  0.52  1.00  4.60  268.0  15.0 297.2  2.0   0  0.00  54.  999.   2 NAD-SFC NoSubs
10  7 11 192 21  -38.9  0.373 -9.000 -9.000 -999.  546.    118.5 0.2160  0.52  1.00  4.10  280.0  15.0 295.4  2.0   0  0.00  56. 1000.   2 NAD-SFC NoSubs
10  7 11 192 22  -34.1  0.325 -9.000 -9.000 -999.  447.     90.0 0.2160  0.52  1.00  3.60  282.0  15.0 294.2  2.0   0  0.00  57. 1000.   2 NAD-SFC NoSubs
10  7 11 192 23  -24.7  0.246 -9.000 -9.000 -999.  296.     53.7 0.2720  0.52  1.00  2.60  303.0  15.0 293.8  2.0   0  0.00  56. 1000.   2 NAD-SFC NoSubs
10  7 11 192 24  -25.7  0.252 -9.000 -9.000 -999.  303.     55.3 0.2930  0.52  1.00  2.60  336.0  15.0 293.2  2.0   0  0.00  55. 1000.   2 NAD-SFC NoSubs
10  7 12 193  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00    0.0  15.0 292.6  2.0   0  0.00  57. 1001.   3 NAD-SFC NoSubs
10  7 12 193  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00    0.0  15.0 291.9  2.0   0  0.00  60. 1001.   3 NAD-SFC NoSubs
10  7 12 193  3  -16.4  0.200 -9.000 -9.000 -999.  215.     43.8 0.2940  0.52  1.00  2.10    3.0  15.0 291.5  2.0   0  0.00  60. 1001.   3 NAD-SFC NoSubs
10  7 12 193  4  -16.5  0.200 -9.000 -9.000 -999.  214.     43.0 0.2930  0.52  1.00  2.10  354.0  15.0 291.2  2.0   0  0.00  59. 1002.   2 NAD-SFC NoSubs
10  7 12 193  5   -8.3  0.140 -9.000 -9.000 -999.  126.     29.5 0.2930  0.52  1.00  1.50  337.0  15.0 291.2  2.0   0  0.00  59. 1002.   2 NAD-SFC NoSubs
10  7 12 193  6   -5.9  0.143 -9.000 -9.000 -999.  130.     44.0 0.2930  0.52  0.50  1.50  330.0  15.0 291.4  2.0   0  0.00  58. 1002.   2 NAD-SFC NoSubs
10  7 12 193  7   34.6  0.250  0.504  0.008  132.  300.    -40.4 0.2720  0.52  0.29  2.10  300.0  15.0 293.1  2.0   0  0.00  51. 1003.   2 NAD-SFC NoSubs
10  7 12 193  8   80.6 -9.000 -9.000 -9.000  242. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0 294.9  2.0   0  0.00  48. 1002.   2 NAD-SFC NoSubs
10  7 12 193  9  121.1 -9.000 -9.000 -9.000  401. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 296.8  2.0   0  0.00  44. 1002.   2 NAD-SFC NoSubs
10  7 12 193 10  153.6 -9.000 -9.000 -9.000  574. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 298.6  2.0   0  0.00  42. 1002.   2 NAD-SFC NoSubs
10  7 12 193 11  176.5 -9.000 -9.000 -9.000  722. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 300.2  2.0   0  0.00  40. 1001.   2 NAD-SFC NoSubs
10  7 12 193 12  188.3 -9.000 -9.000 -9.000  851. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 301.8  2.0   0  0.00  39. 1000.   2 NAD-SFC NoSubs
10  7 12 193 13  189.5 -9.000 -9.000 -9.000  964. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 303.0  2.0   0  0.00  37.  999.   2 NAD-SFC NoSubs
10  7 12 193 14  180.1  0.122  1.738  0.011 1040.  103.     -1.0 0.2930  0.52  0.19  0.50  337.0  15.0 304.1  2.0   0  0.00  36.  999.   2 NAD-SFC NoSubs
10  7 12 193 15  159.4  0.182  1.702  0.012 1102.  186.     -3.4 0.2930  0.52  0.19  1.00  351.0  15.0 304.9  2.0   0  0.00  34.  998.   2 NAD-SFC NoSubs
10  7 12 193 16  128.8  0.229  1.607  0.012 1150.  263.     -8.3 0.2930  0.52  0.20  1.50  346.0  15.0 305.4  2.0   0  0.00  34.  998.   2 NAD-SFC NoSubs
10  7 12 193 17   90.2  0.318  1.441  0.012 1181.  430.    -31.6 0.2720  0.52  0.22  2.60  319.0  15.0 305.2  2.0   0  0.00  37.  998.   3 NAD-SFC NoSubs
10  7 12 193 18   43.6  0.415  1.134  0.012 1192.  641.   -145.6 0.2160  0.52  0.28  4.10  293.0  15.0 303.4  2.0   0  0.00  46.  999.   2 NAD-SFC NoSubs
10  7 12 193 19   -7.8  0.484 -9.000 -9.000 -999.  807.   1292.4 0.2160  0.52  0.46  5.10  280.0  15.0 298.8  2.0   0  0.00  52. 1000.   2 NAD-SFC NoSubs
10  7 12 193 20  -43.8  0.420 -9.000 -9.000 -999.  657.    150.7 0.2160  0.52  1.00  4.60  284.0  15.0 295.8  2.0   0  0.00  55. 1000.   2 NAD-SFC NoSubs
10  7 12 193 21  -44.1  0.420 -9.000 -9.000 -999.  653.    149.8 0.2160  0.52  1.00  4.60  278.0  15.0 294.0  2.0   0  0.00  58. 1001.   2 NAD-SFC NoSubs
10  7 12 193 22  -39.3  0.372 -9.000 -9.000 -999.  547.    117.5 0.2160  0.52  1.00  4.10  293.0  15.0 292.9  2.0   0  0.00  59. 1001.   2 NAD-SFC NoSubs
10  7 12 193 23  -24.5  0.246 -9.000 -9.000 -999.  303.     54.4 0.2720  0.52  1.00  2.60  322.0  15.0 292.2  2.0   0  0.00  60. 1002.   3 NAD-SFC NoSubs
10  7 12 193 24  -25.5  0.252 -9.000 -9.000 -999.  304.     56.1 0.2940  0.52  1.00  2.60   15.0  15.0 291.8  2.0   0  0.00  61. 1002.   3 NAD-SFC NoSubs
10  7 13 194  1  -25.5  0.252 -9.000 -9.000 -999.  304.     56.0 0.2940  0.52  1.00  2.60   19.0  15.0 291.2  2.0   0  0.00  64. 1002.   3 NAD-SFC NoSubs
10  7 13 194  2  -16.4  0.200 -9.000 -9.000 -999.  216.     43.7 0.2940  0.52  1.00  2.10   19.0  15.0 290.8  2.0   0  0.00  66. 1002.   3 NAD-SFC NoSubs
10  7 13 194  3   -8.3  0.140 -9.000 -9.000 -999.  126.     29.5 0.2940  0.52  1.00  1.50    8.0  15.0 290.2  2.0   0  0.00  67. 1002.   2 NAD-SFC NoSubs
10  7 13 194  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00    0.0  15.0 289.9  2.0   0  0.00  68. 1002.   2 NAD-SFC NoSubs
10  7 13 194  5   -1.7  0.084 -9.000 -9.000 -999.   59.     32.1 0.2930  0.52  1.00  0.50  339.0  15.0 289.5  2.0   0  0.00  69. 1002.   2 NAD-SFC NoSubs
10  7 13 194  6   -5.3  0.130 -9.000 -9.000 -999.  113.     37.5 0.2160  0.52  0.50  1.50  288.0  15.0 289.8  2.0   0  0.00  67. 1002.   2 NAD-SFC NoSubs
10  7 13 194  7   33.6  0.186  0.520  0.010  149.  192.    -17.0 0.2160  0.52  0.29  1.50  280.0  15.0 291.2  2.0   0  0.00  59. 1003.   2 NAD-SFC NoSubs
10  7 13 194  8   79.7 -9.000 -9.000 -9.000  257. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0 293.2  2.0   0  0.00  51. 1002.   2 NAD-SFC NoSubs
10  7 13 194  9  120.2 -9.000 -9.000 -9.000  386. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 295.1  2.0   0  0.00  46. 1002.   2 NAD-SFC NoSubs
10  7 13 194 10  152.8 -9.000 -9.000 -9.000  576. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 297.0  2.0   0  0.00  44. 1002.   2 NAD-SFC NoSubs
10  7 13 194 11  175.8 -9.000 -9.000 -9.000  709. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 298.9  2.0   0  0.00  41. 1001.   2 NAD-SFC NoSubs
10  7 13 194 12  187.7 -9.000 -9.000 -9.000  803. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 300.6  2.0   0  0.00  38. 1000.   2 NAD-SFC NoSubs
10  7 13 194 13  188.9 -9.000 -9.000 -9.000  887. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 302.1  2.0   0  0.00  36. 1000.   2 NAD-SFC NoSubs
10  7 13 194 14  179.5  0.122  1.691  0.012  961.  103.     -1.0 0.2930  0.52  0.19  0.50  332.0  15.0 303.2  2.0   0  0.00  34.  999.   2 NAD-SFC NoSubs
10  7 13 194 15  158.7  0.182  1.655  0.012 1018.  186.     -3.4 0.2930  0.52  0.19  1.00  357.0  15.0 303.9  2.0   0  0.00  33.  998.   2 NAD-SFC NoSubs
10  7 13 194 16  128.0  0.229  1.562  0.011 1061.  263.     -8.3 0.2940  0.52  0.20  1.50    7.0  15.0 304.2  2.0   0  0.00  33.  998.   2 NAD-SFC NoSubs
10  7 13 194 17   88.9  0.277  1.395  0.011 1089.  349.    -21.2 0.2940  0.52  0.22  2.10   24.0  15.0 304.2  2.0   0  0.00  34.  998.   2 NAD-SFC NoSubs
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10	7	13	194	18	43.7	0.259	1.106	0.011	1103.	317.	-35.4	0.2940	0.52	0.28	2.10	17.0	15.0	304.0	2.0	0	0.00	42.	998.	2	NAD-SFC	NoSubs
10	7	13	194	19	-0.5	0.270	-9.000	-9.000	-999.	337.	3459.5	0.2930	0.52	0.46	2.60	342.0	15.0	303.4	2.0	0	0.00	44.	999.	2	NAD-SFC	NoSubs
10	7	13	194	20	-48.0	0.468	-9.000	-9.000	-999.	768.	189.7	0.2160	0.52	1.00	5.10	290.0	15.0	300.0	2.0	0	0.00	55.	999.	2	NAD-SFC	NoSubs
10	7	13	194	21	-48.8	0.468	-9.000	-9.000	-999.	767.	186.9	0.2160	0.52	1.00	5.10	278.0	15.0	295.8	2.0	0	0.00	67.	1000.	2	NAD-SFC	NoSubs
10	7	13	194	22	-44.0	0.420	-9.000	-9.000	-999.	655.	149.9	0.2160	0.52	1.00	4.60	279.0	15.0	294.2	2.0	0	0.00	68.	1000.	2	NAD-SFC	NoSubs
10	7	13	194	23	-39.2	0.372	-9.000	-9.000	-999.	547.	117.6	0.2160	0.52	1.00	4.10	277.0	15.0	293.2	2.0	0	0.00	69.	1001.	2	NAD-SFC	NoSubs
10	7	13	194	24	-28.6	0.278	-9.000	-9.000	-999.	357.	67.2	0.2160	0.52	1.00	3.10	288.0	15.0	292.6	2.0	0	0.00	69.	1001.	3	NAD-SFC	NoSubs
10	7	14	195	1	-15.7	0.196	-9.000	-9.000	-999.	210.	42.5	0.2720	0.52	1.00	2.10	328.0	15.0	292.2	2.0	0	0.00	68.	1001.	3	NAD-SFC	NoSubs
10	7	14	195	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	292.0	2.0	0	0.00	67.	1001.	3	NAD-SFC	NoSubs
10	7	14	195	3	-8.2	0.140	-9.000	-9.000	-999.	125.	29.9	0.2930	0.52	1.00	1.50	354.0	15.0	291.6	2.0	0	0.00	67.	1002.	3	NAD-SFC	NoSubs
10	7	14	195	4	-7.9	0.137	-9.000	-9.000	-999.	121.	29.1	0.2720	0.52	1.00	1.50	321.0	15.0	291.4	2.0	0	0.00	66.	1002.	3	NAD-SFC	NoSubs
10	7	14	195	5	-7.9	0.137	-9.000	-9.000	-999.	121.	29.1	0.2720	0.52	1.00	1.50	308.0	15.0	291.2	2.0	0	0.00	66.	1002.	3	NAD-SFC	NoSubs
10	7	14	195	6	-5.9	0.139	-9.000	-9.000	-999.	125.	41.1	0.2720	0.52	0.50	1.50	313.0	15.0	291.4	2.0	0	0.00	67.	1003.	2	NAD-SFC	NoSubs
10	7	14	195	7	33.7	0.150	0.534	0.009	161.	140.	-9.0	0.2930	0.52	0.29	1.00	332.0	15.0	292.8	2.0	0	0.00	64.	1003.	2	NAD-SFC	NoSubs
10	7	14	195	8	79.7	-9.000	-9.000	-9.000	308.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	294.4	2.0	0	0.00	59.	1003.	2	NAD-SFC	NoSubs
10	7	14	195	9	120.3	-9.000	-9.000	-9.000	462.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.0	2.0	0	0.00	55.	1003.	2	NAD-SFC	NoSubs
10	7	14	195	10	152.9	-9.000	-9.000	-9.000	606.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.0	2.0	0	0.00	52.	1003.	2	NAD-SFC	NoSubs
10	7	14	195	11	176.0	-9.000	-9.000	-9.000	737.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.9	2.0	0	0.00	48.	1003.	2	NAD-SFC	NoSubs
10	7	14	195	12	188.0	-9.000	-9.000	-9.000	855.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.5	2.0	0	0.00	45.	1002.	2	NAD-SFC	NoSubs
10	7	14	195	13	189.2	-9.000	-9.000	-9.000	960.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.9	2.0	0	0.00	43.	1001.	2	NAD-SFC	NoSubs
10	7	14	195	14	179.8	0.122	1.726	0.013	1022.	103.	-1.0	0.2930	0.52	0.19	0.50	340.0	15.0	304.1	2.0	0	0.00	41.	1000.	2	NAD-SFC	NoSubs
10	7	14	195	15	159.2	-9.000	-9.000	-9.000	1070.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	305.0	2.0	0	0.00	40.	1000.	2	NAD-SFC	NoSubs
10	7	14	195	16	128.7	0.333	1.587	0.012	1108.	462.	-25.7	0.2940	0.52	0.20	2.60	6.0	15.0	305.8	2.0	0	0.00	40.	999.	2	NAD-SFC	NoSubs
10	7	14	195	17	89.4	0.323	1.416	0.012	1132.	441.	-33.5	0.2940	0.52	0.22	2.60	18.0	15.0	305.5	2.0	0	0.00	45.	999.	2	NAD-SFC	NoSubs
10	7	14	195	18	44.2	0.259	1.123	0.012	1144.	319.	-35.2	0.2940	0.52	0.28	2.10	7.0	15.0	305.2	2.0	0	0.00	51.	999.	2	NAD-SFC	NoSubs
10	7	14	195	19	0.1	0.214	0.160	0.012	1143.	238.	-6937.2	0.2940	0.52	0.47	2.10	5.0	15.0	304.5	2.0	0	0.00	53.	1000.	2	NAD-SFC	NoSubs
10	7	14	195	20	-30.2	0.297	-9.000	-9.000	-999.	388.	77.3	0.2720	0.52	1.00	3.10	301.0	15.0	303.5	2.0	0	0.00	55.	1000.	2	NAD-SFC	NoSubs
10	7	14	195	21	-48.1	0.468	-9.000	-9.000	-999.	767.	189.4	0.2160	0.52	1.00	5.10	285.0	15.0	299.6	2.0	0	0.00	62.	1000.	2	NAD-SFC	NoSubs
10	7	14	195	22	-43.7	0.420	-9.000	-9.000	-999.	655.	151.4	0.2160	0.52	1.00	4.60	276.0	15.0	296.9	2.0	0	0.00	62.	1001.	2	NAD-SFC	NoSubs
10	7	14	195	23	-33.9	0.325	-9.000	-9.000	-999.	451.	90.6	0.2160	0.52	1.00	3.60	286.0	15.0	296.0	2.0	0	0.00	63.	1001.	2	NAD-SFC	NoSubs
10	7	14	195	24	-31.0	0.297	-9.000	-9.000	-999.	388.	75.1	0.2720	0.52	1.00	3.10	310.0	15.0	295.6	2.0	0	0.00	64.	1001.	2	NAD-SFC	NoSubs
10	7	15	196	1	-31.7	0.303	-9.000	-9.000	-999.	400.	78.4	0.2930	0.52	1.00	3.10	330.0	15.0	295.2	2.0	0	0.00	65.	1001.	2	NAD-SFC	NoSubs
10	7	15	196	2	-31.7	0.303	-9.000	-9.000	-999.	400.	78.4	0.2930	0.52	1.00	3.10	344.0	15.0	295.1	2.0	0	0.00	68.	1002.	2	NAD-SFC	NoSubs
10	7	15	196	3	-25.6	0.252	-9.000	-9.000	-999.	304.	55.5	0.2930	0.52	1.00	2.60	348.0	15.0	294.8	2.0	0	0.00	72.	1002.	2	NAD-SFC	NoSubs
10	7	15	196	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	294.2	2.0	0	0.00	75.	1002.	2	NAD-SFC	NoSubs
10	7	15	196	5	-8.2	0.140	-9.000	-9.000	-999.	126.	29.7	0.2940	0.52	1.00	1.50	4.0	15.0	293.8	2.0	0	0.00	78.	1002.	2	NAD-SFC	NoSubs
10	7	15	196	6	-6.1	0.143	-9.000	-9.000	-999.	129.	42.8	0.2930	0.52	0.51	1.50	348.0	15.0	293.6	2.0	0	0.00	77.	1003.	2	NAD-SFC	NoSubs
10	7	15	196	7	33.9	0.198	0.563	0.012	188.	212.	-20.6	0.2930	0.52	0.29	1.50	354.0	15.0	294.4	2.0	0	0.00	66.	1003.	2	NAD-SFC	NoSubs
10	7	15	196	8	80.0	-9.000	-9.000	-9.000	272.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	296.2	2.0	0	0.00	60.	1003.	2	NAD-SFC	NoSubs
10	7	15	196	9	120.9	-9.000	-9.000	-9.000	359.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	298.4	2.0	0	0.00	53.	1002.	2	NAD-SFC	NoSubs
10	7	15	196	10	153.6	-9.000	-9.000	-9.000	509.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.2	2.0	0	0.00	50.	1002.	2	NAD-SFC	NoSubs
10	7	15	196	11	176.9	-9.000	-9.000	-9.000	673.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.2	2.0	0	0.00	46.	1001.	2	NAD-SFC	NoSubs
10	7	15	196	12	189.2	-9.000	-9.000	-9.000	866.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	304.2	2.0	0	0.00	42.	1000.	2	NAD-SFC	NoSubs
10	7	15	196	13	190.5	-9.000	-9.000	-9.000	994.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	305.8	2.0	0	0.00	40.	999.	2	NAD-SFC	NoSubs
10	7	15	196	14	181.3	0.123	1.748	0.014	1050.	103.	-1.0	0.2930	0.52	0.19	0.50	343.0	15.0	307.0	2.0	0	0.00	38.	998.	2	NAD-SFC	NoSubs
10	7	15	196	15	160.6	0.235	1.704	0.014	1098.	273.	-7.2	0.2940	0.52	0.19	1.50	8.0	15.0	307.8	2.0	0	0.00	38.	998.	2	NAD-SFC	NoSubs
10	7	15	196	16	129.8	0.334	1.605	0.014	1135.	463.	-25.5	0.2940	0.52	0.20	2.60	18.0	15.0	307.9	2.0	0	0.00	39.	997.	2	NAD-SFC	NoSubs
10	7	15	196	17	90.4	0.323	1.433	0.014	1159.	441.	-33.2	0.2940	0.52	0.22	2.60	28.0	15.0	307.5	2.0	0	0.00	46.	997.	2	NAD-SFC	NoSubs
10	7	15	196	18	45.0	0.260	1.140	0.014	1170.	320.	-34.6	0.2940	0.52	0.28	2.10	21.0	15.0	307.1	2.0	0	0.00	51.	997.	2	NAD-SFC	NoSubs
10	7	15	196	19	1.0	0.158	0.317	0.014	1169.	155.	-362.7	0.2930	0.52	0.47	1.50	342.0	15.0	306.4	2.0	0	0.00	53.	998.	2	NAD-SFC	NoSubs
10	7	15	196	20	-47.3	0.468	-9.000	-9.000	-999.	768.	192.8	0.2160	0.52	1.00	5.10	294.0	15.0	304.8	2.0	0	0.00	57.	999.	2	NAD-SFC	NoSubs
10	7	15	196	21	-51.1	0.498	-9.000	-9.000	-999.	841.	214.6	0.1750	0.52	1.00	5.70	269.0	15.0	299.9	2.0	0	0.00	64.	999.	2	NAD-SFC	NoSubs
10	7	15	196	22	-43.4	0.420	-9.000	-9.000	-999.	658.	152.1	0.2160	0.52	1.00	4.60	273.0	15.0	298.2	2.0	0	0.00	64.	1000.	2	NAD-SFC	NoSubs
10	7	15	196	23	-28.8	0.278	-9.000	-9.000	-999.	367.	66.5	0.2160	0.52	1.00	3.10	272.0	15.0	297.6	2.0	0	0.00	63.	1000.	2	NAD-SFC	NoSubs
10	7	15	196	24	-15.6	0.196	-9.000	-9.000	-999.	211.	42.9	0.2720	0.52	1.00	2.10	306.0	15.0	297.5	2.0	0	0.00	61.	1001.	3	NAD-SFC	NoSubs
10	7	16	197	1	-25.2	0.252	-9.000	-9.000	-999.	303.	56.6	0.2930	0.52	1.00	2.60	336.0	15.0	297.1	2.0	0	0.00	60.	1001.	3	NAD-SFC	NoSubs
10	7	16	197	2	-16.2	0.200	-9.000	-9.000	-999.	216.	44.2	0.2930	0.52	1.00	2.10	350.0	15.0	296.8	2.0	0	0.00	61.	1001.	3	NAD-SFC	NoSubs
10	7	16	197	3	-30.9	0.297	-9.000	-9.000	-999.	388.	75.4	0.2720	0.52	1.00	3.10	310.0	15.0	296.5	2.0	0	0.00	61.	1001.	2	NAD-SFC	NoSubs
10	7	16	197	4	-15.8	0.195	-9.000	-9.000	-999.	212.	42.2	0.2720	0.52	1.00	2.10	306.0	15.0	296.2	2.0	0	0.00	60.	1001.	2	NAD-SFC	NoSubs
10	7	16	197	5	-8.2	0.140	-9.000	-9.000	-999.	126.	29.8	0.2930	0.52	1.00	1.50	334.0	15.0	296.2	2.0	0	0.00	60.	1002.	2	NAD-SFC	NoSubs
10	7	16	197	6	-5.8	0.140	-9.000	-9.000	-999.	125.	42.3	0.2720	0.52	0.51	1.50	310.0	15.0	296.2	2.0	0	0.00	60.	1002.	2	NAD-SFC	NoSubs
10	7	16	197	7	34.2	0.186	0.538	0.011	163.	192.	-16.8	0.2160	0.52	0.29	1.50	295.0	15.0	296.4	2.0	0	0.00	60.	1002.	2	NAD-SFC	NoSubs
10	7	16	197	8	80.1	0.256	0.877	0.011	301.	311.	-18.8	0.2160	0.52	0.22	2.10	280.0	15.0	297.2	2.0	0	0.00	53.	1002.	2	NAD-SFC	NoSubs
10	7	16	197	9	120.7	0.103	1.139	0.010	437.	101.	-1.0	0.1750	0.52	0.20	0.50	244.0	15.0	298.5	2.0	0	0.00	47.	1001.	2	NAD-SFC	NoSubs
10	7	16	197	10	153.4	0.110	1.338	0.010	558.	87.	-1.0	0.1970	0.52	0.19	0.50	147.0	15.0	300.2	2.0	0	0.00	45.	1001.	2	NAD-SFC	NoSubs
10	7	16	197	11	176.6	-9.000	-9.000	-9.000	674.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.0	2.0	0	0.00	43.	1001.	2	NAD-SFC	NoSubs
10	7	16	197	12	188.6	-9.000	-9.000	-9.000	788.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.5	2.0	0	0.00	42.	1001.	2	NAD-SFC	NoSubs
10	7	16	197	13	189.8	0.123	1.677	0.010	889.	104.	-1.0	0.2940	0.52	0.19	0.50	19.0	15.0	304.8	2.0	0	0.00	41.	1001.	2	NAD-SFC	NoSubs
10	7	16	197	14	180.4	0.178	1.701	0.010	975.	180.	-2.8	0.2470	0.52	0.19	1.00	34.0	15.0	305.8	2.0	0	0.00	40.	1000.	2	NAD-SFC	NoSubs
10	7	16	197	15	159.6	0.226	1.669	0.009	1041.	258.	-6.4	0.2470	0.52	0.19	1.50	34.0	15.0	306.2	2.0	0	0.00	40.	1000.	2	NAD-SFC	NoSubs
10	7	16	197	16	128.8	0.276	1.579	0.009	1092.	348.	-14.6	0.2470	0.52	0.20	2.10	42.0	15.0	306.5	2.0	0	0.00	40.	1000.	2	NAD-SFC	NoSubs
10	7	16	197	17	89.6	0.267	1.414	0.008	1126.	331.	-18.9	0.2470	0.52	0.22	2.10	53.0	15.0	306.5	2.0	0	0.00	42.	999.	2	NAD-SFC	NoSubs
10	7	16	197	18	44.3	0.294	1.123	0.008	1141.	382.	-51.2	0.2470	0.52	0.28	2.60	51.0	15.0	306.2	2.0	0	0.00	50.	1000.	2	NAD-SFC	NoSubs
10	7	16	197	19	0.2	0.205	0.196	0.008	1140.	227.	-3314.8	0.2470	0.52	0.47	2.10	38.0	15.0	305.5	2.0	0	0.00	52.	1000.	2	NAD-SFC	NoSubs
10	7	16	197	20	-15.6	0.196	-9.000	-9.000	-999.	208.	42.8	0.2720	0.52	1.00	2.10	306.0	15.0	304.4	2.0	0	0.00	54.	1001.	2	NAD-SFC	NoSubs
10	7	16	197	21	-47.9	0.468	-9.000	-9.000	-999.	768.	190.6	0.2160	0.52	1.00	5.10	276.0	15.0	301.4	2.0	0	0.00	60.	1001.	2	NAD-SFC	NoSubs
10	7	16	197	22	-41.2	0.398	-9.000	-9.000	-999.	606.	136.5	0.1750	0.52	1.00	4.60	269.0	15.0	298.2	2.0	0	0.00	63.	1002.	2	NAD-SFC	NoSubs

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10  7 16 197 23  -33.8  0.325 -9.000 -9.000 -999.  449.     90.9  0.2160  0.52  1.00  3.60  285.0  15.0  297.2  2.0   0  0.00  65.  1002.   2 NAD-SFC NoSubs
10  7 16 197 24  -29.0  0.278 -9.000 -9.000 -999.  353.     66.3  0.2160  0.52  1.00  3.10  287.0  15.0  296.8  2.0   0  0.00  66.  1002.   2 NAD-SFC NoSubs
10  7 17 198  1  -22.2  0.231 -9.000 -9.000 -999.  267.     49.4  0.2160  0.52  1.00  2.60  296.0  15.0  296.5  2.0   0  0.00  65.  1002.   2 NAD-SFC NoSubs
10  7 17 198  2  -29.0  0.278 -9.000 -9.000 -999.  352.     66.2  0.2160  0.52  1.00  3.10  298.0  15.0  296.2  2.0   0  0.00  67.  1002.   2 NAD-SFC NoSubs
10  7 17 198  3  -36.3  0.347 -9.000 -9.000 -999.  490.    102.8  0.2720  0.52  1.00  3.60  300.0  15.0  295.6  2.0   0  0.00  73.  1002.   2 NAD-SFC NoSubs
10  7 17 198  4  -31.1  0.297 -9.000 -9.000 -999.  389.     75.0  0.2720  0.52  1.00  3.10  309.0  15.0  295.0  2.0   0  0.00  79.  1002.   2 NAD-SFC NoSubs
10  7 17 198  5  -24.7  0.246 -9.000 -9.000 -999.  294.     53.8  0.2720  0.52  1.00  2.60  321.0  15.0  294.5  2.0   0  0.00  82.  1002.   2 NAD-SFC NoSubs
10  7 17 198  6  -11.7  0.204 -9.000 -9.000 -999.  222.     65.0  0.2930  0.52  0.51  2.10  333.0  15.0  294.4  2.0   0  0.00  82.  1003.   2 NAD-SFC NoSubs
10  7 17 198  7   33.3  0.198  0.530  0.012  159.  211.    -20.8  0.2930  0.52  0.29  1.50  355.0  15.0  295.2  2.0   0  0.00  73.  1003.   2 NAD-SFC NoSubs
10  7 17 198  8   79.7 -9.000 -9.000 -9.000  262. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  297.1  2.0   0  0.00  67.  1003.   2 NAD-SFC NoSubs
10  7 17 198  9  120.7 -9.000 -9.000 -9.000  367. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  299.2  2.0   0  0.00  61.  1003.   2 NAD-SFC NoSubs
10  7 17 198 10  153.6 -9.000 -9.000 -9.000  498. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.1  2.0   0  0.00  57.  1002.   2 NAD-SFC NoSubs
10  7 17 198 11  176.7 -9.000 -9.000 -9.000  624. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  302.8  2.0   0  0.00  53.  1002.   2 NAD-SFC NoSubs
10  7 17 198 12  188.9 -9.000 -9.000 -9.000  772. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  304.4  2.0   0  0.00  49.  1001.   2 NAD-SFC NoSubs
10  7 17 198 13  190.4 -9.000 -9.000 -9.000  910. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  306.0  2.0   0  0.00  44.  1000.   2 NAD-SFC NoSubs
10  7 17 198 14  181.2 -9.000 -9.000 -9.000 1007. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  307.2  2.0   0  0.00  40.   999.   2 NAD-SFC NoSubs
10  7 17 198 15  160.3  0.121  1.687  0.010 1067.  100.     -1.0  0.2940  0.52  0.19  0.50    6.0  15.0  307.8  2.0   0  0.00  38.   998.   2 NAD-SFC NoSubs
10  7 17 198 16  129.7  0.178  1.594  0.010 1114.  180.     -3.8  0.2940  0.52  0.20  1.00   17.0  15.0  308.2  2.0   0  0.00  37.   998.   2 NAD-SFC NoSubs
10  7 17 198 17   90.3  0.277  1.426  0.010 1145.  350.    -21.0  0.2940  0.52  0.22  2.10   26.0  15.0  308.0  2.0   0  0.00  41.   998.   2 NAD-SFC NoSubs
10  7 17 198 18   44.9  0.204  1.135  0.010 1159.  223.    -16.8  0.2940  0.52  0.28  1.50   16.0  15.0  307.8  2.0   0  0.00  47.   998.   2 NAD-SFC NoSubs
10  7 17 198 19    0.8  0.216  0.295  0.010 1158.  241.  -1141.4  0.2930  0.52  0.47  2.10  345.0  15.0  306.9  2.0   0  0.00  50.   999.   2 NAD-SFC NoSubs
10  7 17 198 20  -47.3  0.468 -9.000 -9.000 -999.  768.    192.7  0.2160  0.52  1.00  5.10  292.0  15.0  304.6  2.0   0  0.00  54.   999.   2 NAD-SFC NoSubs
10  7 17 198 21  -43.2  0.420 -9.000 -9.000 -999.  656.    153.0  0.2160  0.52  1.00  4.60  282.0  15.0  300.0  2.0   0  0.00  59.  1000.   2 NAD-SFC NoSubs
10  7 17 198 22  -38.6  0.373 -9.000 -9.000 -999.  548.    119.6  0.2160  0.52  1.00  4.10  270.0  15.0  298.0  2.0   0  0.00  59.  1000.   2 NAD-SFC NoSubs
10  7 17 198 23  -33.8  0.325 -9.000 -9.000 -999.  447.     90.9  0.2160  0.52  1.00  3.60  278.0  15.0  297.0  2.0   0  0.00  61.  1000.   2 NAD-SFC NoSubs
10  7 17 198 24  -28.9  0.278 -9.000 -9.000 -999.  353.     66.3  0.2160  0.52  1.00  3.10  283.0  15.0  296.4  2.0   0  0.00  61.  1000.   2 NAD-SFC NoSubs
10  7 18 199  1  -24.6  0.246 -9.000 -9.000 -999.  293.     54.0  0.2720  0.52  1.00  2.60  303.0  15.0  295.9  2.0   0  0.00  61.  1000.   2 NAD-SFC NoSubs
10  7 18 199  2   -8.2  0.140 -9.000 -9.000 -999.  131.     29.7  0.2930  0.52  1.00  1.50  332.0  15.0  295.5  2.0   0  0.00  61.  1000.   2 NAD-SFC NoSubs
10  7 18 199  3   -4.0  0.102 -9.000 -9.000 -999.   78.     23.6  0.2930  0.52  1.00  1.00  352.0  15.0  295.1  2.0   0  0.00  62.  1000.   2 NAD-SFC NoSubs
10  7 18 199  4   -3.9  0.100 -9.000 -9.000 -999.   76.     23.3  0.2720  0.52  1.00  1.00  311.0  15.0  294.8  2.0   0  0.00  62.  1000.   2 NAD-SFC NoSubs
10  7 18 199  5   -7.2  0.129 -9.000 -9.000 -999.  111.     26.6  0.2160  0.52  1.00  1.50  294.0  15.0  294.5  2.0   0  0.00  62.  1000.   2 NAD-SFC NoSubs
10  7 18 199  6   -5.4  0.130 -9.000 -9.000 -999.  113.     36.1  0.2160  0.52  0.52  1.50  287.0  15.0  294.2  2.0   0  0.00  63.  1001.   2 NAD-SFC NoSubs
10  7 18 199  7   33.0  0.195  0.493  0.011  129.  206.    -19.9  0.2720  0.52  0.29  1.50  306.0  15.0  295.6  2.0   0  0.00  62.  1001.   2 NAD-SFC NoSubs
10  7 18 199  8   79.4 -9.000 -9.000 -9.000  239. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  297.4  2.0   0  0.00  58.  1001.   2 NAD-SFC NoSubs
10  7 18 199  9  120.6 -9.000 -9.000 -9.000  361. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  299.8  2.0   0  0.00  49.  1000.   2 NAD-SFC NoSubs
10  7 18 199 10  153.6 -9.000 -9.000 -9.000  506. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.6  2.0   0  0.00  44.  1000.   2 NAD-SFC NoSubs
10  7 18 199 11  176.9 -9.000 -9.000 -9.000  643. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  303.4  2.0   0  0.00  41.  1000.   2 NAD-SFC NoSubs
10  7 18 199 12  189.1 -9.000 -9.000 -9.000  815. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  305.0  2.0   0  0.00  39.   999.   2 NAD-SFC NoSubs
10  7 18 199 13  190.5 -9.000 -9.000 -9.000  965. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  306.5  2.0   0  0.00  36.   998.   2 NAD-SFC NoSubs
10  7 18 199 14  181.2 -9.000 -9.000 -9.000 1026. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  307.5  2.0   0  0.00  33.   997.   2 NAD-SFC NoSubs
10  7 18 199 15  160.4 -9.000 -9.000 -9.000 1074. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  308.1  2.0   0  0.00  32.   997.   2 NAD-SFC NoSubs
10  7 18 199 16  129.5  0.229  1.593  0.012 1111.  263.     -8.3  0.2940  0.52  0.20  1.50   23.0  15.0  308.2  2.0   0  0.00  33.   996.   2 NAD-SFC NoSubs
10  7 18 199 17   90.1  0.169  1.423  0.012 1136.  168.     -4.8  0.2940  0.52  0.22  1.00   12.0  15.0  308.1  2.0   0  0.00  38.   996.   2 NAD-SFC NoSubs
10  7 18 199 18   44.4  0.345  1.127  0.012 1147.  487.    -82.4  0.2720  0.52  0.28  3.10  304.0  15.0  307.4  2.0   0  0.00  42.   997.   2 NAD-SFC NoSubs
10  7 18 199 19   -5.5  0.486 -9.000 -9.000 -999.  812.   1848.6  0.2160  0.52  0.47  5.10  284.0  15.0  303.4  2.0   0  0.00  53.   997.   2 NAD-SFC NoSubs
10  7 18 199 20  -48.0  0.468 -9.000 -9.000 -999.  768.    189.7  0.2160  0.52  1.00  5.10  274.0  15.0  300.0  2.0   0  0.00  57.   998.   2 NAD-SFC NoSubs
10  7 18 199 21  -43.4  0.420 -9.000 -9.000 -999.  655.    152.1  0.2160  0.52  1.00  4.60  271.0  15.0  298.2  2.0   0  0.00  60.   998.   2 NAD-SFC NoSubs
10  7 18 199 22  -33.7  0.325 -9.000 -9.000 -999.  451.     90.9  0.2160  0.52  1.00  3.60  275.0  15.0  297.2  2.0   0  0.00  62.   998.   2 NAD-SFC NoSubs
10  7 18 199 23  -22.1  0.231 -9.000 -9.000 -999.  271.     49.5  0.2160  0.52  1.00  2.60  287.0  15.0  296.8  2.0   0  0.00  63.   998.   2 NAD-SFC NoSubs
10  7 18 199 24  -15.8  0.195 -9.000 -9.000 -999.  208.     42.2  0.2720  0.52  1.00  2.10  307.0  15.0  296.2  2.0   0  0.00  64.   998.   2 NAD-SFC NoSubs
10  7 19 200  1   -7.9  0.137 -9.000 -9.000 -999.  122.     28.9  0.2720  0.52  1.00  1.50  324.0  15.0  296.0  2.0   0  0.00  64.   998.   2 NAD-SFC NoSubs
10  7 19 200  2   -8.2  0.140 -9.000 -9.000 -999.  125.     29.7  0.2930  0.52  1.00  1.50  335.0  15.0  295.9  2.0   0  0.00  65.   999.   2 NAD-SFC NoSubs
10  7 19 200  3   -7.9  0.137 -9.000 -9.000 -999.  121.     28.9  0.2720  0.52  1.00  1.50  308.0  15.0  295.9  2.0   0  0.00  65.   999.   2 NAD-SFC NoSubs
10  7 19 200  4   -7.9  0.137 -9.000 -9.000 -999.  121.     28.9  0.2720  0.52  1.00  1.50  307.0  15.0  295.8  2.0   0  0.00  66.   999.   2 NAD-SFC NoSubs
10  7 19 200  5  -30.9  0.297 -9.000 -9.000 -999.  388.     75.1  0.2720  0.52  1.00  3.10  315.0  15.0  295.5  2.0   0  0.00  69.   999.   2 NAD-SFC NoSubs
10  7 19 200  6  -18.1  0.300 -9.000 -9.000 -999.  395.    133.4  0.2720  0.52  0.52  3.10  303.0  15.0  295.0  2.0   0  0.00  74.   999.   2 NAD-SFC NoSubs
10  7 19 200  7   32.6  0.249  0.537  0.010  169.  299.    -42.1  0.2720  0.52  0.29  2.10  322.0  15.0  295.6  2.0   0  0.00  74.   999.   2 NAD-SFC NoSubs
10  7 19 200  8   78.8 -9.000 -9.000 -9.000  344. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  296.8  2.0   0  0.00  68.   999.   2 NAD-SFC NoSubs
10  7 19 200  9  119.7 -9.000 -9.000 -9.000  471. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  298.4  2.0   0  0.00  64.   999.   2 NAD-SFC NoSubs
10  7 19 200 10  152.5 -9.000 -9.000 -9.000  581. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  299.9  2.0   0  0.00  60.   999.   2 NAD-SFC NoSubs
10  7 19 200 11  175.7 -9.000 -9.000 -9.000  692. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.5  2.0   0  0.00  56.   998.   2 NAD-SFC NoSubs
10  7 19 200 12  187.8 -9.000 -9.000 -9.000  803. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  303.0  2.0   0  0.00  51.   998.   2 NAD-SFC NoSubs
10  7 19 200 13  189.2  0.110  1.686  0.013  903.   88.     -1.0  0.1750  0.52  0.19  0.50  256.0  15.0  304.4  2.0   0  0.00  47.   997.   2 NAD-SFC NoSubs
10  7 19 200 14  179.8  0.114  1.707  0.012  984.   93.     -1.0  0.2160  0.52  0.19  0.50  290.0  15.0  305.4  2.0   0  0.00  44.   996.   2 NAD-SFC NoSubs
10  7 19 200 15  159.0  0.182  1.667  0.012 1035.  186.     -3.4  0.2930  0.52  0.19  1.00  335.0  15.0  306.0  2.0   0  0.00  42.   995.   2 NAD-SFC NoSubs
10  7 19 200 16  128.7  0.287  1.574  0.012 1076.  369.    -16.3  0.2940  0.52  0.20  2.10   11.0  15.0  307.2  2.0   0  0.00  37.   995.   2 NAD-SFC NoSubs
10  7 19 200 17   89.2  0.277  1.404  0.011 1102.  350.    -21.1  0.2940  0.52  0.22  2.10   18.0  15.0  306.9  2.0   0  0.00  42.   995.   2 NAD-SFC NoSubs
10  7 19 200 18   44.9  0.260  1.121  0.011 1115.  318.    -34.7  0.2940  0.52  0.28  2.10   11.0  15.0  306.8  2.0   0  0.00  48.   995.   3 NAD-SFC NoSubs
10  7 19 200 19    1.2  0.341  0.336  0.011 1114.  478.  -2914.4  0.2160  0.52  0.48  3.60  298.0  15.0  305.9  2.0   0  0.00  49.   996.   3 NAD-SFC NoSubs
10  7 19 200 20  -44.1  0.443 -9.000 -9.000 -999.  708.    175.5  0.1750  0.52  1.00  5.10  267.0  15.0  301.0  2.0   0  0.00  62.   997.   3 NAD-SFC NoSubs
10  7 19 200 21  -47.1  0.468 -9.000 -9.000 -999.  767.    193.3  0.2160  0.52  1.00  5.10  270.0  15.0  297.8  2.0   0  0.00  64.   997.   3 NAD-SFC NoSubs
10  7 19 200 22  -40.2  0.398 -9.000 -9.000 -999.  607.    139.3  0.1750  0.52  1.00  4.60  256.0  15.0  296.4  2.0   0  0.00  67.   997.   3 NAD-SFC NoSubs
10  7 19 200 23  -37.9  0.373 -9.000 -9.000 -999.  547.    121.7  0.2160  0.52  1.00  4.10  274.0  15.0  295.2  2.0   0  0.00  69.   998.   3 NAD-SFC NoSubs
10  7 19 200 24  -33.1  0.325 -9.000 -9.000 -999.  447.     92.6  0.2160  0.52  1.00  3.60  294.0  15.0  294.6  2.0   0  0.00  70.   998.   3 NAD-SFC NoSubs
10  7 20 201  1  -24.3  0.246 -9.000 -9.000 -999.  296.     54.6  0.2720  0.52  1.00  2.60  311.0  15.0  294.5  2.0   0  0.00  69.   998.   3 NAD-SFC NoSubs
10  7 20 201  2  -15.6  0.196 -9.000 -9.000 -999.  208.     42.7  0.2720  0.52  1.00  2.10  328.0  15.0  294.5  2.0   0  0.00  69.   998.   3 NAD-SFC NoSubs
10  7 20 201  3   -8.1  0.140 -9.000 -9.000 -999.  126.     30.0  0.2930  0.52  1.00  1.50  330.0  15.0  294.2  2.0   0  0.00  70.   998.   3 NAD-SFC NoSubs
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10  7 20 201   4   -7.8  0.137 -9.000 -9.000 -999.  121.     29.2  0.2720  0.52  1.00  1.50  322.0  15.0  293.8  2.0   0  0.00  72.   998.    3 NAD-SFC NoSubs
10  7 20 201   5   -8.1  0.140 -9.000 -9.000 -999.  125.     30.0  0.2930  0.52  1.00  1.50  335.0  15.0  293.2  2.0   0  0.00  73.   998.    3 NAD-SFC NoSubs
10  7 20 201   6   -6.2  0.142 -9.000 -9.000 -999.  129.     41.1  0.2930  0.52  0.53  1.50  330.0  15.0  293.0  2.0   0  0.00  74.   999.    3 NAD-SFC NoSubs
10  7 20 201   7   31.6  0.197  0.549  0.010  186.  210.    -21.6  0.2930  0.52  0.30  1.50  343.0  15.0  294.0  2.0   0  0.00  66.   999.    2 NAD-SFC NoSubs
10  7 20 201   8   78.0 -9.000 -9.000 -9.000  316. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  295.8  2.0   0  0.00  60.   999.    2 NAD-SFC NoSubs
10  7 20 201   9  118.9 -9.000 -9.000 -9.000  451. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  297.2  2.0   0  0.00  56.   999.    2 NAD-SFC NoSubs
10  7 20 201  10  152.0 -9.000 -9.000 -9.000  585. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  299.2  2.0   0  0.00  53.   999.    2 NAD-SFC NoSubs
10  7 20 201  11  175.3 -9.000 -9.000 -9.000  726. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.0  2.0   0  0.00  50.   998.    2 NAD-SFC NoSubs
10  7 20 201  12  187.5 -9.000 -9.000 -9.000  869. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  302.8  2.0   0  0.00  45.   997.    2 NAD-SFC NoSubs
10  7 20 201  13  188.9  0.121  1.736  0.012  986.  101.     -1.0  0.2720  0.52  0.19  0.50  308.0  15.0  304.2  2.0   0  0.00  40.   996.    2 NAD-SFC NoSubs
10  7 20 201  14  179.5  0.122  1.747  0.013 1057.  103.     -1.0  0.2930  0.52  0.19  0.50  331.0  15.0  305.2  2.0   0  0.00  36.   996.    2 NAD-SFC NoSubs
10  7 20 201  15  158.8  0.182  1.708  0.013 1116.  186.     -3.4  0.2930  0.52  0.19  1.00  336.0  15.0  306.0  2.0   0  0.00  33.   995.    2 NAD-SFC NoSubs
10  7 20 201  16  128.0  0.229  1.611  0.013 1161.  262.     -8.3  0.2930  0.52  0.20  1.50  342.0  15.0  306.4  2.0   0  0.00  31.   995.    2 NAD-SFC NoSubs
10  7 20 201  17   88.4  0.272  1.436  0.013 1190.  340.    -20.2  0.2720  0.52  0.22  2.10  327.0  15.0  306.0  2.0   0  0.00  36.   995.    2 NAD-SFC NoSubs
10  7 20 201  18   42.3  0.436  1.127  0.013 1202.  691.   -173.8  0.2720  0.52  0.28  4.10  304.0  15.0  304.8  2.0   0  0.00  44.   995.    2 NAD-SFC NoSubs
10  7 20 201  19  -12.1  0.481 -9.000 -9.000 -999.  800.    820.2  0.2160  0.52  0.48  5.10  283.0  15.0  300.2  2.0   0  0.00  54.   996.    2 NAD-SFC NoSubs
10  7 20 201  20  -48.5  0.468 -9.000 -9.000 -999.  768.    187.5  0.2160  0.52  1.00  5.10  274.0  15.0  296.8  2.0   0  0.00  60.   997.    2 NAD-SFC NoSubs
10  7 20 201  21  -48.8  0.467 -9.000 -9.000 -999.  767.    186.2  0.2160  0.52  1.00  5.10  285.0  15.0  294.8  2.0   0  0.00  62.   997.    2 NAD-SFC NoSubs
10  7 20 201  22  -39.1  0.372 -9.000 -9.000 -999.  552.    117.6  0.2160  0.52  1.00  4.10  281.0  15.0  293.2  2.0   0  0.00  65.   997.    2 NAD-SFC NoSubs
10  7 20 201  23  -29.2  0.278 -9.000 -9.000 -999.  357.     65.4  0.2160  0.52  1.00  3.10  295.0  15.0  292.6  2.0   0  0.00  66.   997.    2 NAD-SFC NoSubs
10  7 20 201  24  -24.7  0.246 -9.000 -9.000 -999.  293.     53.6  0.2720  0.52  1.00  2.60  314.0  15.0  292.0  2.0   0  0.00  67.   997.    2 NAD-SFC NoSubs
10  7 21 202   1  -24.8  0.246 -9.000 -9.000 -999.  293.     53.5  0.2720  0.52  1.00  2.60  318.0  15.0  291.2  2.0   0  0.00  69.   998.    2 NAD-SFC NoSubs
10  7 21 202   2  -32.1  0.303 -9.000 -9.000 -999.  400.     77.1  0.2930  0.52  1.00  3.10  337.0  15.0  290.8  2.0   0  0.00  72.   998.    2 NAD-SFC NoSubs
10  7 21 202   3  -32.1  0.303 -9.000 -9.000 -999.  400.     77.0  0.2930  0.52  1.00  3.10  353.0  15.0  290.2  2.0   0  0.00  75.   998.    2 NAD-SFC NoSubs
10  7 21 202   4  -32.2  0.303 -9.000 -9.000 -999.  400.     76.9  0.2930  0.52  1.00  3.10  342.0  15.0  289.8  2.0   0  0.00  76.   998.    2 NAD-SFC NoSubs
10  7 21 202   5  -32.2  0.303 -9.000 -9.000 -999.  400.     76.8  0.2930  0.52  1.00  3.10  335.0  15.0  289.5  2.0   0  0.00  77.   998.    2 NAD-SFC NoSubs
10  7 21 202   6  -17.2  0.249 -9.000 -9.000 -999.  299.     79.8  0.2720  0.52  0.53  2.60  324.0  15.0  289.8  2.0   0  0.00  76.   999.    2 NAD-SFC NoSubs
10  7 21 202   7   30.4  0.292  0.458  0.010  112.  379.    -73.1  0.2720  0.52  0.30  2.60  313.0  15.0  291.8  2.0   0  0.00  67.   999.    2 NAD-SFC NoSubs
10  7 21 202   8   76.9  0.163  0.760  0.010  203.  168.     -5.0  0.2720  0.52  0.22  1.00  313.0  15.0  293.8  2.0   0  0.00  61.   999.    2 NAD-SFC NoSubs
10  7 21 202   9  118.0 -9.000 -9.000 -9.000  378. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  295.8  2.0   0  0.00  56.   999.    2 NAD-SFC NoSubs
10  7 21 202  10  151.1 -9.000 -9.000 -9.000  522. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  297.8  2.0   0  0.00  51.   999.    2 NAD-SFC NoSubs
10  7 21 202  11  174.5 -9.000 -9.000 -9.000  650. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  299.8  2.0   0  0.00  45.   999.    2 NAD-SFC NoSubs
10  7 21 202  12  186.7 -9.000 -9.000 -9.000  767. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.4  2.0   0  0.00  40.   998.    2 NAD-SFC NoSubs
10  7 21 202  13  188.0  0.121  1.662  0.011  870.  101.     -1.0  0.2720  0.52  0.19  0.50  318.0  15.0  302.8  2.0   0  0.00  36.   997.    2 NAD-SFC NoSubs
10  7 21 202  14  178.5  0.122  1.687  0.011  958.  103.     -1.0  0.2930  0.52  0.19  0.50  345.0  15.0  303.8  2.0   0  0.00  33.   997.    2 NAD-SFC NoSubs
10  7 21 202  15  157.7  0.182  1.656  0.011 1024.  186.     -3.4  0.2930  0.52  0.19  1.00  345.0  15.0  304.4  2.0   0  0.00  33.   996.    2 NAD-SFC NoSubs
10  7 21 202  16  126.8  0.228  1.563  0.010 1072.  262.     -8.3  0.2930  0.52  0.20  1.50  355.0  15.0  304.8  2.0   0  0.00  32.   996.    2 NAD-SFC NoSubs
10  7 21 202  17   87.3  0.276  1.394  0.010 1104.  348.    -21.4  0.2930  0.52  0.22  2.10  346.0  15.0  304.6  2.0   0  0.00  34.   996.    2 NAD-SFC NoSubs
10  7 21 202  18   42.8  0.259  1.104  0.010 1118.  316.    -35.9  0.2930  0.52  0.28  2.10  341.0  15.0  304.2  2.0   0  0.00  42.   996.    3 NAD-SFC NoSubs
10  7 21 202  19   -2.9  0.341 -9.000 -9.000 -999.  479.   1225.0  0.2160  0.52  0.48  3.60  298.0  15.0  302.9  2.0   0  0.00  46.   997.    3 NAD-SFC NoSubs
10  7 21 202  20  -45.6  0.443 -9.000 -9.000 -999.  707.    169.4  0.1750  0.52  1.00  5.10  269.0  15.0  298.6  2.0   0  0.00  62.   997.    2 NAD-SFC NoSubs
10  7 21 202  21  -46.1  0.443 -9.000 -9.000 -999.  708.    167.7  0.1750  0.52  1.00  5.10  266.0  15.0  295.8  2.0   0  0.00  70.   998.    2 NAD-SFC NoSubs
10  7 21 202  22  -38.9  0.373 -9.000 -9.000 -999.  549.    118.2  0.2160  0.52  1.00  4.10  275.0  15.0  294.6  2.0   0  0.00  73.   998.    2 NAD-SFC NoSubs
10  7 21 202  23  -34.1  0.325 -9.000 -9.000 -999.  447.     89.8  0.2160  0.52  1.00  3.60  278.0  15.0  293.8  2.0   0  0.00  75.   998.    2 NAD-SFC NoSubs
10  7 21 202  24  -22.2  0.231 -9.000 -9.000 -999.  270.     49.1  0.2160  0.52  1.00  2.60  297.0  15.0  293.1  2.0   0  0.00  77.   998.    2 NAD-SFC NoSubs
10  7 22 203   1  -15.8  0.195 -9.000 -9.000 -999.  208.     41.9  0.2720  0.52  1.00  2.10  319.0  15.0  292.5  2.0   0  0.00  78.   998.    2 NAD-SFC NoSubs
10  7 22 203   2  -24.8  0.246 -9.000 -9.000 -999.  293.     53.5  0.2720  0.52  1.00  2.60  319.0  15.0  291.8  2.0   0  0.00  81.   999.    2 NAD-SFC NoSubs
10  7 22 203   3  -31.4  0.296 -9.000 -9.000 -999.  387.     74.0  0.2720  0.52  1.00  3.10  316.0  15.0  291.2  2.0   0  0.00  83.   999.    2 NAD-SFC NoSubs
10  7 22 203   4  -31.4  0.296 -9.000 -9.000 -999.  387.     73.8  0.2720  0.52  1.00  3.10  307.0  15.0  290.8  2.0   0  0.00  84.   999.    2 NAD-SFC NoSubs
10  7 22 203   5  -31.4  0.296 -9.000 -9.000 -999.  387.     73.8  0.2720  0.52  1.00  3.10  310.0  15.0  290.5  2.0   0  0.00  85.   999.    2 NAD-SFC NoSubs
10  7 22 203   6  -17.5  0.249 -9.000 -9.000 -999.  299.     78.9  0.2720  0.52  0.53  2.60  309.0  15.0  290.8  2.0   0  0.00  84.  1000.    2 NAD-SFC NoSubs
10  7 22 203   7   30.3  0.292  0.477  0.009  128.  379.    -73.5  0.2720  0.52  0.30  2.60  316.0  15.0  292.6  2.0   0  0.00  74.  1000.    2 NAD-SFC NoSubs
10  7 22 203   8   76.7  0.163  0.806  0.009  244.  168.     -5.0  0.2720  0.52  0.22  1.00  320.0  15.0  294.2  2.0   0  0.00  69.  1000.    2 NAD-SFC NoSubs
10  7 22 203   9  117.8 -9.000 -9.000 -9.000  410. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  295.9  2.0   0  0.00  66.  1000.    2 NAD-SFC NoSubs
10  7 22 203  10  151.0 -9.000 -9.000 -9.000  554. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  298.1  2.0   0  0.00  59.  1000.    2 NAD-SFC NoSubs
10  7 22 203  11  174.4 -9.000 -9.000 -9.000  687. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  300.2  2.0   0  0.00  50.   999.    2 NAD-SFC NoSubs
10  7 22 203  12  186.8 -9.000 -9.000 -9.000  811. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  302.0  2.0   0  0.00  42.   998.    2 NAD-SFC NoSubs
10  7 22 203  13  188.2  0.115  1.693  0.011  920.   94.     -1.0  0.2160  0.52  0.19  0.50  270.0  15.0  303.5  2.0   0  0.00  37.   998.    2 NAD-SFC NoSubs
10  7 22 203  14  178.8  0.114  1.714  0.011 1003.   93.     -1.0  0.2160  0.52  0.19  0.50  295.0  15.0  304.6  2.0   0  0.00  33.   997.    2 NAD-SFC NoSubs
10  7 22 203  15  157.9  0.118  1.675  0.011 1060.   98.     -1.0  0.2720  0.52  0.19  0.50  302.0  15.0  305.2  2.0   0  0.00  32.   997.    2 NAD-SFC NoSubs
10  7 22 203  16  127.1  0.174  1.579  0.010 1104.  174.     -3.7  0.2720  0.52  0.20  1.00  309.0  15.0  305.8  2.0   0  0.00  31.   997.    2 NAD-SFC NoSubs
10  7 22 203  17   87.6  0.276  1.407  0.010 1133.  348.    -21.4  0.2930  0.52  0.22  2.10  332.0  15.0  305.6  2.0   0  0.00  34.   997.    2 NAD-SFC NoSubs
10  7 22 203  18   41.8  0.304  1.104  0.010 1145.  402.    -59.7  0.2930  0.52  0.28  2.60  333.0  15.0  305.1  2.0   0  0.00  42.   997.    2 NAD-SFC NoSubs
10  7 22 203  19  -10.7  0.461 -9.000 -9.000 -999.  752.    814.2  0.2720  0.52  0.49  4.60  307.0  15.0  302.4  2.0   0  0.00  49.   998.    2 NAD-SFC NoSubs
10  7 22 203  20  -43.4  0.420 -9.000 -9.000 -999.  655.    151.9  0.2160  0.52  1.00  4.60  290.0  15.0  297.9  2.0   0  0.00  60.   999.    2 NAD-SFC NoSubs
10  7 22 203  21  -43.8  0.420 -9.000 -9.000 -999.  653.    150.5  0.2160  0.52  1.00  4.60  279.0  15.0  295.2  2.0   0  0.00  65.   999.    2 NAD-SFC NoSubs
10  7 22 203  22  -39.1  0.372 -9.000 -9.000 -999.  547.    117.8  0.2160  0.52  1.00  4.10  295.0  15.0  293.8  2.0   0  0.00  69.   999.    2 NAD-SFC NoSubs
10  7 22 203  23  -34.3  0.325 -9.000 -9.000 -999.  447.     89.6  0.2160  0.52  1.00  3.60  292.0  15.0  292.9  2.0   0  0.00  71.  1000.    2 NAD-SFC NoSubs
10  7 22 203  24  -31.3  0.296 -9.000 -9.000 -999.  388.     74.2  0.2720  0.52  1.00  3.10  315.0  15.0  292.1  2.0   0  0.00  73.  1000.    2 NAD-SFC NoSubs
10  7 23 204   1  -32.1  0.303 -9.000 -9.000 -999.  400.     77.4  0.2930  0.52  1.00  3.10  339.0  15.0  291.6  2.0   0  0.00  74.  1000.    2 NAD-SFC NoSubs
10  7 23 204   2  -37.6  0.355 -9.000 -9.000 -999.  507.    105.9  0.2940  0.52  1.00  3.60    9.0  15.0  291.1  2.0   0  0.00  75.  1001.    2 NAD-SFC NoSubs
10  7 23 204   3  -32.2  0.303 -9.000 -9.000 -999.  402.     77.3  0.2940  0.52  1.00  3.10   18.0  15.0  290.8  2.0   0  0.00  76.  1001.    2 NAD-SFC NoSubs
10  7 23 204   4  -16.6  0.200 -9.000 -9.000 -999.  220.     43.0  0.2940  0.52  1.00  2.10   17.0  15.0  290.5  2.0   0  0.00  76.  1001.    2 NAD-SFC NoSubs
10  7 23 204   5   -4.0  0.102 -9.000 -9.000 -999.   83.     23.7  0.2940  0.52  1.00  1.00   24.0  15.0  290.2  2.0   0  0.00  76.  1001.    2 NAD-SFC NoSubs
10  7 23 204   6   -1.1  0.070 -9.000 -9.000 -999.   45.     28.1  0.2470  0.52  0.54  0.50   38.0  15.0  290.2  2.0   0  0.00  76.  1001.    2 NAD-SFC NoSubs
10  7 23 204   7   29.8  0.148  0.450  0.012  109.  137.     -9.8  0.2930  0.52  0.30  1.00  335.0  15.0  292.4  2.0   0  0.00  64.  1001.    2 NAD-SFC NoSubs
10  7 23 204   8   76.3 -9.000 -9.000 -9.000  212. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  294.2  2.0   0  0.00  59.  1001.    2 NAD-SFC NoSubs
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10  7 23 204  9  117.7 -9.000 -9.000 -9.000  341. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 296.5  2.0    0  0.00   52. 1001.    2 NAD-SFC NoSubs
10  7 23 204 10  150.7 -9.000 -9.000 -9.000  498. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 298.2  2.0    0  0.00   49. 1001.    2 NAD-SFC NoSubs
10  7 23 204 11  174.3 -9.000 -9.000 -9.000  658. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 300.4  2.0    0  0.00   45. 1000.    2 NAD-SFC NoSubs
10  7 23 204 12  186.8 -9.000 -9.000 -9.000  772. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 302.5  2.0    0  0.00   40.  999.    2 NAD-SFC NoSubs
10  7 23 204 13  188.3  0.121  1.663  0.013  872.  101.     -1.0 0.2720  0.52  0.19  0.50  325.0  15.0 304.2  2.0    0  0.00   35.  999.    2 NAD-SFC NoSubs
10  7 23 204 14  179.0  0.185  1.688  0.013  958.  190.     -3.1 0.2930  0.52  0.19  1.00  345.0  15.0 305.4  2.0    0  0.00   33.  998.    2 NAD-SFC NoSubs
10  7 23 204 15  158.3  0.234  1.651  0.012 1014.  272.     -7.2 0.2930  0.52  0.19  1.50  354.0  15.0 306.2  2.0    0  0.00   32.  998.    2 NAD-SFC NoSubs
10  7 23 204 16  127.3 -9.000 -9.000 -9.000 1054. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 306.5  2.0    0  0.00   32.  998.    2 NAD-SFC NoSubs
10  7 23 204 17   87.5  0.276  1.384  0.012 1080.  349.    -21.5 0.2940  0.52  0.22  2.10   11.0  15.0 306.1  2.0    0  0.00   40.  998.    2 NAD-SFC NoSubs
10  7 23 204 18   41.8  0.350  1.086  0.012 1092.  496.    -91.2 0.2930  0.52  0.28  3.10  355.0  15.0 305.8  2.0    0  0.00   45.  998.    2 NAD-SFC NoSubs
10  7 23 204 19  -12.4  0.513 -9.000 -9.000 -999.  881.    969.3 0.2720  0.52  0.49  5.10  309.0  15.0 302.9  2.0    0  0.00   52.  999.    2 NAD-SFC NoSubs
10  7 23 204 20  -54.3  0.525 -9.000 -9.000 -999.  913.    237.7 0.2160  0.52  1.00  5.70  289.0  15.0 298.2  2.0    0  0.00   61.  999.    2 NAD-SFC NoSubs
10  7 23 204 21  -43.8  0.420 -9.000 -9.000 -999.  663.    150.8 0.2160  0.52  1.00  4.60  289.0  15.0 295.9  2.0    0  0.00   64. 1000.    2 NAD-SFC NoSubs
10  7 23 204 22  -39.0  0.373 -9.000 -9.000 -999.  548.    118.2 0.2160  0.52  1.00  4.10  299.0  15.0 294.6  2.0    0  0.00   66. 1000.    2 NAD-SFC NoSubs
10  7 23 204 23  -36.4  0.347 -9.000 -9.000 -999.  491.    102.1 0.2720  0.52  1.00  3.60  323.0  15.0 293.8  2.0    0  0.00   67. 1000.    2 NAD-SFC NoSubs
10  7 23 204 24  -37.3  0.354 -9.000 -9.000 -999.  506.    106.3 0.2930  0.52  1.00  3.60  340.0  15.0 292.9  2.0    0  0.00   69. 1000.    2 NAD-SFC NoSubs
10  7 24 205  1  -37.4  0.354 -9.000 -9.000 -999.  506.    106.1 0.2930  0.52  1.00  3.60  355.0  15.0 292.2  2.0    0  0.00   70. 1000.    2 NAD-SFC NoSubs
10  7 24 205  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00    0.0  15.0 291.8  2.0    0  0.00   71. 1001.    2 NAD-SFC NoSubs
10  7 24 205  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00    0.0  15.0 291.8  2.0    0  0.00   69. 1001.    2 NAD-SFC NoSubs
10  7 24 205  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00    0.0  15.0 291.6  2.0    0  0.00   68. 1001.    2 NAD-SFC NoSubs
10  7 24 205  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00    0.0  15.0 291.4  2.0    0  0.00   69. 1001.    2 NAD-SFC NoSubs
10  7 24 205  6   -1.2  0.072 -9.000 -9.000 -999.   47.     28.5 0.2930  0.52  0.54  0.50  355.0  15.0 291.2  2.0    0  0.00   72. 1002.    2 NAD-SFC NoSubs
10  7 24 205  7   29.4 -9.000 -9.000 -9.000  129. -999. -99999.0 0.2235  0.52  0.30  0.00    0.0  15.0 292.6  2.0    0  0.00   67. 1002.    2 NAD-SFC NoSubs
10  7 24 205  8   75.9 -9.000 -9.000 -9.000  267. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0 294.2  2.0    0  0.00   61. 1002.    2 NAD-SFC NoSubs
10  7 24 205  9  117.4 -9.000 -9.000 -9.000  390. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 296.6  2.0    0  0.00   52. 1001.    2 NAD-SFC NoSubs
10  7 24 205 10  150.5 -9.000 -9.000 -9.000  516. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 298.4  2.0    0  0.00   50. 1001.    2 NAD-SFC NoSubs
10  7 24 205 11  174.1 -9.000 -9.000 -9.000  634. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 300.5  2.0    0  0.00   46. 1000.    2 NAD-SFC NoSubs
10  7 24 205 12  186.6 -9.000 -9.000 -9.000  741. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 302.6  2.0    0  0.00   42.  999.    2 NAD-SFC NoSubs
10  7 24 205 13  188.1  0.121  1.640  0.012  836.  101.     -1.0 0.2720  0.52  0.19  0.50  321.0  15.0 304.2  2.0    0  0.00   38.  998.    2 NAD-SFC NoSubs
10  7 24 205 14  178.7  0.184  1.663  0.012  917.  190.     -3.1 0.2930  0.52  0.19  1.00  336.0  15.0 305.2  2.0    0  0.00   36.  998.    2 NAD-SFC NoSubs
10  7 24 205 15  157.9  0.293  1.632  0.012  982.  380.    -14.2 0.2930  0.52  0.19  2.10  356.0  15.0 305.9  2.0    0  0.00   35.  998.    2 NAD-SFC NoSubs
10  7 24 205 16  126.8  0.333  1.540  0.012 1026.  461.    -25.9 0.2940  0.52  0.20  2.60    8.0  15.0 306.2  2.0    0  0.00   31.  998.    2 NAD-SFC NoSubs
10  7 24 205 17   87.1  0.276  1.371  0.012 1054.  350.    -21.5 0.2940  0.52  0.22  2.10   10.0  15.0 306.0  2.0    0  0.00   39.  998.    2 NAD-SFC NoSubs
10  7 24 205 18   41.2  0.370  1.073  0.012 1067.  540.   -109.4 0.2160  0.52  0.28  3.60  296.0  15.0 305.4  2.0    0  0.00   44.  998.    2 NAD-SFC NoSubs
10  7 24 205 19  -16.0  0.479 -9.000 -9.000 -999.  795.    610.0 0.2160  0.52  0.49  5.10  283.0  15.0 300.4  2.0    0  0.00   56.  999.    2 NAD-SFC NoSubs
10  7 24 205 20  -48.5  0.468 -9.000 -9.000 -999.  768.    187.6 0.2160  0.52  1.00  5.10  278.0  15.0 296.9  2.0    0  0.00   56.  999.    2 NAD-SFC NoSubs
10  7 24 205 21  -43.9  0.420 -9.000 -9.000 -999.  655.    150.2 0.2160  0.52  1.00  4.60  285.0  15.0 294.8  2.0    0  0.00   57. 1000.    2 NAD-SFC NoSubs
10  7 24 205 22  -29.2  0.278 -9.000 -9.000 -999.  366.     65.6 0.2160  0.52  1.00  3.10  294.0  15.0 293.6  2.0    0  0.00   58. 1000.    2 NAD-SFC NoSubs
10  7 24 205 23  -24.7  0.246 -9.000 -9.000 -999.  293.     53.7 0.2720  0.52  1.00  2.60  320.0  15.0 293.0  2.0    0  0.00   58. 1000.    2 NAD-SFC NoSubs
10  7 24 205 24  -32.0  0.303 -9.000 -9.000 -999.  400.     77.6 0.2930  0.52  1.00  3.10  349.0  15.0 292.2  2.0    0  0.00   60. 1001.    2 NAD-SFC NoSubs
10  7 25 206  1  -25.7  0.252 -9.000 -9.000 -999.  304.     55.2 0.2930  0.52  1.00  2.60  349.0  15.0 291.6  2.0    0  0.00   61. 1001.    2 NAD-SFC NoSubs
10  7 25 206  2   -8.3  0.140 -9.000 -9.000 -999.  132.     29.5 0.2930  0.52  1.00  1.50  338.0  15.0 291.2  2.0    0  0.00   61. 1001.    2 NAD-SFC NoSubs
10  7 25 206  3   -4.0  0.102 -9.000 -9.000 -999.   79.     23.6 0.2930  0.52  1.00  1.00  339.0  15.0 290.9  2.0    0  0.00   60. 1001.    2 NAD-SFC NoSubs
10  7 25 206  4   -4.0  0.102 -9.000 -9.000 -999.   78.     23.6 0.2930  0.52  1.00  1.00  333.0  15.0 290.8  2.0    0  0.00   59. 1001.    2 NAD-SFC NoSubs
10  7 25 206  5   -3.9  0.101 -9.000 -9.000 -999.   77.     23.3 0.2720  0.52  1.00  1.00  325.0  15.0 290.5  2.0    0  0.00   60. 1001.    2 NAD-SFC NoSubs
10  7 25 206  6   -1.2  0.072 -9.000 -9.000 -999.   47.     28.7 0.2720  0.52  0.55  0.50  324.0  15.0 290.4  2.0    0  0.00   62. 1001.    2 NAD-SFC NoSubs
10  7 25 206  7   28.6  0.145  0.462  0.010  123.  133.     -9.6 0.2720  0.52  0.30  1.00  329.0  15.0 291.8  2.0    0  0.00   58. 1001.    2 NAD-SFC NoSubs
10  7 25 206  8   75.0 -9.000 -9.000 -9.000  262. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0 292.8  2.0    0  0.00   56. 1001.    2 NAD-SFC NoSubs
10  7 25 206  9  116.3 -9.000 -9.000 -9.000  402. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 294.8  2.0    0  0.00   50. 1000.    2 NAD-SFC NoSubs
10  7 25 206 10  149.6 -9.000 -9.000 -9.000  547. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 296.9  2.0    0  0.00   45. 1000.    2 NAD-SFC NoSubs
10  7 25 206 11  173.1 -9.000 -9.000 -9.000  674. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 298.9  2.0    0  0.00   42.  999.    2 NAD-SFC NoSubs
10  7 25 206 12  185.5 -9.000 -9.000 -9.000  767. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 300.8  2.0    0  0.00   39.  998.    2 NAD-SFC NoSubs
10  7 25 206 13  187.0  0.123  1.648  0.016  852.  104.     -1.0 0.2930  0.52  0.19  0.50  346.0  15.0 302.5  2.0    0  0.00   37.  997.    2 NAD-SFC NoSubs
10  7 25 206 14  177.7  0.184  1.665  0.016  926.  190.     -3.1 0.2930  0.52  0.19  1.00  346.0  15.0 303.8  2.0    0  0.00   35.  997.    2 NAD-SFC NoSubs
10  7 25 206 15  156.9  0.293  1.630  0.016  982.  380.    -14.2 0.2930  0.52  0.19  2.10  353.0  15.0 304.6  2.0    0  0.00   34.  996.    2 NAD-SFC NoSubs
10  7 25 206 16  125.9  0.333  1.531  0.016 1014.  460.    -26.0 0.2930  0.52  0.20  2.60  343.0  15.0 305.0  2.0    0  0.00   33.  996.    2 NAD-SFC NoSubs
10  7 25 206 17   85.7  0.362  1.356  0.016 1034.  522.    -49.0 0.2720  0.52  0.22  3.10  302.0  15.0 304.0  2.0    0  0.00   44.  996.    2 NAD-SFC NoSubs
10  7 25 206 18   38.4  0.501  1.039  0.016 1039.  850.   -290.3 0.2160  0.52  0.28  5.10  279.0  15.0 300.8  2.0    0  0.00   52.  997.    2 NAD-SFC NoSubs
10  7 25 206 19  -20.8  0.476 -9.000 -9.000 -999.  790.    462.3 0.2160  0.52  0.50  5.10  283.0  15.0 296.8  2.0    0  0.00   54.  998.    2 NAD-SFC NoSubs
10  7 25 206 20  -43.9  0.420 -9.000 -9.000 -999.  656.    150.1 0.2160  0.52  1.00  4.60  276.0  15.0 294.5  2.0    0  0.00   57.  998.    2 NAD-SFC NoSubs
10  7 25 206 21  -39.2  0.372 -9.000 -9.000 -999.  547.    117.4 0.2160  0.52  1.00  4.10  292.0  15.0 292.8  2.0    0  0.00   60.  999.    2 NAD-SFC NoSubs
10  7 25 206 22  -22.3  0.230 -9.000 -9.000 -999.  279.     49.0 0.2160  0.52  1.00  2.60  298.0  15.0 291.8  2.0    0  0.00   62.  999.    2 NAD-SFC NoSubs
10  7 25 206 23  -24.8  0.246 -9.000 -9.000 -999.  293.     53.5 0.2720  0.52  1.00  2.60  321.0  15.0 291.2  2.0    0  0.00   62.  999.    2 NAD-SFC NoSubs
10  7 25 206 24  -32.1  0.303 -9.000 -9.000 -999.  400.     77.1 0.2930  0.52  1.00  3.10  355.0  15.0 290.5  2.0    0  0.00   63.  999.    2 NAD-SFC NoSubs
10  7 26 207  1  -32.2  0.303 -9.000 -9.000 -999.  400.     76.9 0.2930  0.52  1.00  3.10  360.0  15.0 289.8  2.0    0  0.00   67.  999.    2 NAD-SFC NoSubs
10  7 26 207  2  -32.3  0.303 -9.000 -9.000 -999.  400.     76.6 0.2930  0.52  1.00  3.10  355.0  15.0 288.9  2.0    0  0.00   69.  999.    2 NAD-SFC NoSubs
10  7 26 207  3  -32.4  0.303 -9.000 -9.000 -999.  400.     76.4 0.2930  0.52  1.00  3.10  333.0  15.0 288.2  2.0    0  0.00   71. 1000.    2 NAD-SFC NoSubs
10  7 26 207  4  -31.8  0.296 -9.000 -9.000 -999.  387.     73.0 0.2720  0.52  1.00  3.10  306.0  15.0 287.8  2.0    0  0.00   71. 1000.    2 NAD-SFC NoSubs
10  7 26 207  5  -31.8  0.296 -9.000 -9.000 -999.  387.     73.0 0.2720  0.52  1.00  3.10  308.0  15.0 287.4  2.0    0  0.00   71. 1000.    2 NAD-SFC NoSubs
10  7 26 207  6  -19.6  0.248 -9.000 -9.000 -999.  298.     69.5 0.2720  0.52  0.55  2.60  316.0  15.0 287.5  2.0    0  0.00   69. 1001.    2 NAD-SFC NoSubs
10  7 26 207  7   27.4  0.290  0.442  0.010  112.  375.    -79.6 0.2720  0.52  0.30  2.60  307.0  15.0 289.2  2.0    0  0.00   60. 1001.    2 NAD-SFC NoSubs
10  7 26 207  8   74.1  0.107  0.737  0.011  192.  121.     -1.5 0.2720  0.52  0.22  0.50  319.0  15.0 291.2  2.0    0  0.00   55. 1001.    2 NAD-SFC NoSubs
10  7 26 207  9  115.6 -9.000 -9.000 -9.000  338. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 293.4  2.0    0  0.00   49. 1000.    2 NAD-SFC NoSubs
10  7 26 207 10  148.7 -9.000 -9.000 -9.000  480. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 295.2  2.0    0  0.00   45. 1000.    2 NAD-SFC NoSubs
10  7 26 207 11  172.3 -9.000 -9.000 -9.000  612. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 297.6  2.0    0  0.00   41.  999.    2 NAD-SFC NoSubs
10  7 26 207 12  184.8 -9.000 -9.000 -9.000  733. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 299.6  2.0    0  0.00   37.  998.    2 NAD-SFC NoSubs
10  7 26 207 13  186.2 -9.000 -9.000 -9.000  840. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 301.2  2.0    0  0.00   34.  997.    2 NAD-SFC NoSubs
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10  7 26 207 14  176.7  0.114  1.666  0.014  930.   93.     -1.0  0.2160  0.52  0.19   0.50  298.0  15.0  302.4   2.0    0   0.00   32.   996.    2 NAD-SFC NoSubs
10  7 26 207 15  155.9  0.181  1.633  0.014  993.  185.     -3.4  0.2930  0.52  0.19   1.00  333.0  15.0  303.2   2.0    0   0.00   31.   995.    2 NAD-SFC NoSubs
10  7 26 207 16  124.8  0.286  1.534  0.014 1028.  367.    -16.6  0.2930  0.52  0.20   2.10  339.0  15.0  303.6   2.0    0   0.00   31.   995.    2 NAD-SFC NoSubs
10  7 26 207 17   85.0  0.275  1.361  0.014 1052.  347.    -21.8  0.2930  0.52  0.22   2.10  354.0  15.0  303.4   2.0    0   0.00   36.   994.    2 NAD-SFC NoSubs
10  7 26 207 18   38.9  0.343  1.052  0.014 1061.  481.    -91.6  0.2720  0.52  0.29   3.10  324.0  15.0  302.8   2.0    0   0.00   43.   995.    2 NAD-SFC NoSubs
10  7 26 207 19  -19.9  0.477 -9.000 -9.000 -999.  790.    482.8  0.2160  0.52  0.50   5.10  293.0  15.0  298.8   2.0    0   0.00   56.   996.    2 NAD-SFC NoSubs
10  7 26 207 20  -54.8  0.525 -9.000 -9.000 -999.  912.    234.6  0.2160  0.52  1.00   5.70  278.0  15.0  294.5   2.0    0   0.00   63.   997.    2 NAD-SFC NoSubs
10  7 26 207 21  -44.1  0.420 -9.000 -9.000 -999.  662.    149.0  0.2160  0.52  1.00   4.60  279.0  15.0  292.5   2.0    0   0.00   65.   997.    2 NAD-SFC NoSubs
10  7 26 207 22  -39.4  0.372 -9.000 -9.000 -999.  548.    116.8  0.2160  0.52  1.00   4.10  290.0  15.0  291.2   2.0    0   0.00   67.   998.    2 NAD-SFC NoSubs
10  7 26 207 23  -29.5  0.278 -9.000 -9.000 -999.  357.     64.8  0.2160  0.52  1.00   3.10  299.0  15.0  290.4   2.0    0   0.00   68.   998.    2 NAD-SFC NoSubs
10  7 26 207 24  -31.5  0.296 -9.000 -9.000 -999.  387.     73.6  0.2720  0.52  1.00   3.10  327.0  15.0  289.8   2.0    0   0.00   69.   999.    2 NAD-SFC NoSubs
10  7 27 208  1  -37.8  0.354 -9.000 -9.000 -999.  506.    104.8  0.2930  0.52  1.00   3.60  350.0  15.0  289.0   2.0    0   0.00   71.   999.    2 NAD-SFC NoSubs
10  7 27 208  2  -32.4  0.303 -9.000 -9.000 -999.  402.     76.5  0.2930  0.52  1.00   3.10  350.0  15.0  288.5   2.0    0   0.00   72.   999.    2 NAD-SFC NoSubs
10  7 27 208  3  -32.4  0.303 -9.000 -9.000 -999.  400.     76.4  0.2930  0.52  1.00   3.10  346.0  15.0  288.2   2.0    0   0.00   73.  1000.    2 NAD-SFC NoSubs
10  7 27 208  4  -32.5  0.303 -9.000 -9.000 -999.  400.     76.4  0.2930  0.52  1.00   3.10  347.0  15.0  287.9   2.0    0   0.00   73.  1000.    2 NAD-SFC NoSubs
10  7 27 208  5  -25.9  0.251 -9.000 -9.000 -999.  304.     54.7  0.2930  0.52  1.00   2.60  350.0  15.0  287.8   2.0    0   0.00   73.  1000.    2 NAD-SFC NoSubs
10  7 27 208  6    0.6 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.56   0.00    0.0  15.0  287.8   2.0    0   0.00   74.  1001.    2 NAD-SFC NoSubs
10  7 27 208  7   27.1  0.194  0.430  0.010  104.  205.    -24.1  0.2930  0.52  0.30   1.50  345.0  15.0  289.8   2.0    0   0.00   65.  1001.    2 NAD-SFC NoSubs
10  7 27 208  8   73.9 -9.000 -9.000 -9.000  233. -999. -99999.0  0.2235  0.52  0.22   0.00    0.0  15.0  291.8   2.0    0   0.00   59.  1001.    2 NAD-SFC NoSubs
10  7 27 208  9  115.3 -9.000 -9.000 -9.000  375. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  293.6   2.0    0   0.00   54.  1001.    2 NAD-SFC NoSubs
10  7 27 208 10  148.5 -9.000 -9.000 -9.000  524. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  295.5   2.0    0   0.00   51.  1000.    2 NAD-SFC NoSubs
10  7 27 208 11  172.2 -9.000 -9.000 -9.000  660. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  297.9   2.0    0   0.00   45.   999.    2 NAD-SFC NoSubs
10  7 27 208 12  184.8 -9.000 -9.000 -9.000  755. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  300.2   2.0    0   0.00   37.   999.    2 NAD-SFC NoSubs
10  7 27 208 13  186.2  0.121  1.638  0.014  841.  101.     -1.0  0.2720  0.52  0.19   0.50  315.0  15.0  301.8   2.0    0   0.00   33.   998.    2 NAD-SFC NoSubs
10  7 27 208 14  176.8  0.234  1.657  0.014  916.  272.     -6.4  0.2720  0.52  0.19   1.50  324.0  15.0  303.0   2.0    0   0.00   30.   997.    2 NAD-SFC NoSubs
10  7 27 208 15  156.0  0.293  1.623  0.013  976.  380.    -14.3  0.2930  0.52  0.19   2.10  330.0  15.0  303.9   2.0    0   0.00   28.   997.    2 NAD-SFC NoSubs
10  7 27 208 16  124.8  0.373  1.526  0.013 1014.  546.    -36.9  0.2720  0.52  0.20   3.10  321.0  15.0  304.2   2.0    0   0.00   28.   997.    2 NAD-SFC NoSubs
10  7 27 208 17   84.3  0.386  1.348  0.013 1037.  576.    -60.8  0.2160  0.52  0.22   3.60  299.0  15.0  302.8   2.0    0   0.00   41.   998.    2 NAD-SFC NoSubs
10  7 27 208 18   37.1  0.456  1.028  0.013 1043.  738.   -227.2  0.2160  0.52  0.29   4.60  293.0  15.0  299.8   2.0    0   0.00   50.   999.    2 NAD-SFC NoSubs
10  7 27 208 19  -20.7  0.427 -9.000 -9.000 -999.  670.    335.2  0.2160  0.52  0.50   4.60  289.0  15.0  296.6   2.0    0   0.00   55.   999.    2 NAD-SFC NoSubs
10  7 27 208 20  -44.1  0.420 -9.000 -9.000 -999.  653.    149.8  0.2160  0.52  1.00   4.60  284.0  15.0  293.9   2.0    0   0.00   61.  1000.    2 NAD-SFC NoSubs
10  7 27 208 21  -44.4  0.420 -9.000 -9.000 -999.  653.    148.7  0.2160  0.52  1.00   4.60  276.0  15.0  291.9   2.0    0   0.00   65.  1001.    2 NAD-SFC NoSubs
10  7 27 208 22  -34.5  0.325 -9.000 -9.000 -999.  451.     88.9  0.2160  0.52  1.00   3.60  288.0  15.0  290.8   2.0    0   0.00   68.  1001.    2 NAD-SFC NoSubs
10  7 27 208 23  -25.8  0.251 -9.000 -9.000 -999.  305.     55.0  0.2930  0.52  1.00   2.60  334.0  15.0  290.1   2.0    0   0.00   68.  1001.    2 NAD-SFC NoSubs
10  7 27 208 24  -37.8  0.354 -9.000 -9.000 -999.  506.    105.0  0.2930  0.52  1.00   3.60  357.0  15.0  289.5   2.0    0   0.00   71.  1002.    2 NAD-SFC NoSubs
10  7 28 209  1  -37.9  0.354 -9.000 -9.000 -999.  506.    104.7  0.2930  0.52  1.00   3.60  356.0  15.0  288.6   2.0    0   0.00   75.  1002.    2 NAD-SFC NoSubs
10  7 28 209  2  -38.0  0.354 -9.000 -9.000 -999.  506.    104.4  0.2930  0.52  1.00   3.60  350.0  15.0  287.9   2.0    0   0.00   77.  1002.    2 NAD-SFC NoSubs
10  7 28 209  3  -25.9  0.251 -9.000 -9.000 -999.  308.     54.7  0.2930  0.52  1.00   2.60  350.0  15.0  287.6   2.0    0   0.00   77.  1002.    2 NAD-SFC NoSubs
10  7 28 209  4  -25.9  0.251 -9.000 -9.000 -999.  303.     54.7  0.2930  0.52  1.00   2.60  347.0  15.0  287.4   2.0    0   0.00   76.  1002.    2 NAD-SFC NoSubs
10  7 28 209  5  -16.6  0.200 -9.000 -9.000 -999.  215.     42.7  0.2930  0.52  1.00   2.10  360.0  15.0  287.2   2.0    0   0.00   75.  1002.    2 NAD-SFC NoSubs
10  7 28 209  6   -3.4  0.097 -9.000 -9.000 -999.   78.     24.3  0.2940  0.52  0.56   1.00   11.0  15.0  287.2   2.0    0   0.00   76.  1003.    2 NAD-SFC NoSubs
10  7 28 209  7   26.5  0.146  0.439  0.012  114.  134.    -10.6  0.2930  0.52  0.31   1.00  340.0  15.0  289.1   2.0    0   0.00   67.  1003.    2 NAD-SFC NoSubs
10  7 28 209  8   73.3 -9.000 -9.000 -9.000  231. -999. -99999.0  0.2235  0.52  0.22   0.00    0.0  15.0  291.1   2.0    0   0.00   60.  1003.    2 NAD-SFC NoSubs
10  7 28 209  9  114.8 -9.000 -9.000 -9.000  363. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  293.2   2.0    0   0.00   53.  1003.    2 NAD-SFC NoSubs
10  7 28 209 10  148.1 -9.000 -9.000 -9.000  493. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  295.1   2.0    0   0.00   49.  1003.    2 NAD-SFC NoSubs
10  7 28 209 11  171.7 -9.000 -9.000 -9.000  614. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  297.4   2.0    0   0.00   43.  1002.    2 NAD-SFC NoSubs
10  7 28 209 12  184.2 -9.000 -9.000 -9.000  724. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  299.5   2.0    0   0.00   37.  1002.    2 NAD-SFC NoSubs
10  7 28 209 13  185.6  0.121  1.623  0.012  823.  101.     -1.0  0.2720  0.52  0.19   0.50  322.0  15.0  301.1   2.0    0   0.00   33.  1001.    2 NAD-SFC NoSubs
10  7 28 209 14  176.1  0.181  1.647  0.012  907.  185.     -3.0  0.2720  0.52  0.19   1.00  327.0  15.0  302.1   2.0    0   0.00   31.  1000.    2 NAD-SFC NoSubs
10  7 28 209 15  155.1  0.292  1.617  0.012  974.  379.    -14.4  0.2930  0.52  0.19   2.10  341.0  15.0  302.8   2.0    0   0.00   30.  1000.    2 NAD-SFC NoSubs
10  7 28 209 16  123.9  0.332  1.523  0.012 1019.  459.    -26.4  0.2930  0.52  0.20   2.60  349.0  15.0  303.1   2.0    0   0.00   31.  1000.    2 NAD-SFC NoSubs
10  7 28 209 17   83.8 -9.000 -9.000 -9.000 1048. -999. -99999.0  0.2235  0.52  0.22   0.00    0.0  15.0  302.6   2.0    0   0.00   39.  1000.    2 NAD-SFC NoSubs
10  7 28 209 18   37.6  0.348  1.038  0.012 1059.  492.    -99.8  0.2940  0.52  0.29   3.10    9.0  15.0  301.9   2.0    0   0.00   45.  1000.    2 NAD-SFC NoSubs
10  7 28 209 19  -15.0  0.353 -9.000 -9.000 -999.  504.    262.7  0.2720  0.52  0.51   3.60  326.0  15.0  300.9   2.0    0   0.00   46.  1000.    2 NAD-SFC NoSubs
10  7 28 209 20  -48.7  0.468 -9.000 -9.000 -999.  767.    187.4  0.2160  0.52  1.00   5.10  285.0  15.0  296.5   2.0    0   0.00   58.  1001.    2 NAD-SFC NoSubs
10  7 28 209 21  -46.6  0.443 -9.000 -9.000 -999.  708.    166.2  0.1750  0.52  1.00   5.10  267.0  15.0  293.2   2.0    0   0.00   65.  1001.    2 NAD-SFC NoSubs
10  7 28 209 22  -44.5  0.420 -9.000 -9.000 -999.  654.    148.7  0.2160  0.52  1.00   4.60  280.0  15.0  291.9   2.0    0   0.00   69.  1002.    2 NAD-SFC NoSubs
10  7 28 209 23  -39.6  0.372 -9.000 -9.000 -999.  547.    116.6  0.2160  0.52  1.00   4.10  292.0  15.0  290.8   2.0    0   0.00   72.  1002.    2 NAD-SFC NoSubs
10  7 28 209 24  -36.9  0.347 -9.000 -9.000 -999.  490.    100.7  0.2720  0.52  1.00   3.60  300.0  15.0  290.0   2.0    0   0.00   74.  1002.    2 NAD-SFC NoSubs
10  7 29 210  1  -25.0  0.246 -9.000 -9.000 -999.  298.     53.3  0.2720  0.52  1.00   2.60  324.0  15.0  289.4   2.0    0   0.00   76.  1003.    2 NAD-SFC NoSubs
10  7 29 210  2  -25.9  0.251 -9.000 -9.000 -999.  303.     54.9  0.2930  0.52  1.00   2.60  332.0  15.0  289.1   2.0    0   0.00   75.  1003.    2 NAD-SFC NoSubs
10  7 29 210  3  -16.6  0.200 -9.000 -9.000 -999.  215.     42.8  0.2930  0.52  1.00   2.10  341.0  15.0  289.0   2.0    0   0.00   73.  1003.    2 NAD-SFC NoSubs
10  7 29 210  4   -8.3  0.140 -9.000 -9.000 -999.  126.     29.4  0.2930  0.52  1.00   1.50  346.0  15.0  288.9   2.0    0   0.00   73.  1004.    2 NAD-SFC NoSubs
10  7 29 210  5   -1.7  0.084 -9.000 -9.000 -999.   59.     32.1  0.2940  0.52  1.00   0.50   17.0  15.0  288.8   2.0    0   0.00   75.  1004.    2 NAD-SFC NoSubs
10  7 29 210  6   12.3 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.57   0.00    0.0  15.0  288.5   2.0    0   0.00   78.  1004.    2 NAD-SFC NoSubs
10  7 29 210  7   26.2  0.094  0.519  0.011  191.   69.     -2.8  0.2940  0.52  0.31   0.50   26.0  15.0  290.0   2.0    0   0.00   71.  1004.    2 NAD-SFC NoSubs
10  7 29 210  8   73.1 -9.000 -9.000 -9.000  300. -999. -99999.0  0.2235  0.52  0.23   0.00    0.0  15.0  292.0   2.0    0   0.00   63.  1004.    2 NAD-SFC NoSubs
10  7 29 210  9  114.6 -9.000 -9.000 -9.000  417. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  293.8   2.0    0   0.00   57.  1003.    2 NAD-SFC NoSubs
10  7 29 210 10  148.0 -9.000 -9.000 -9.000  536. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  295.8   2.0    0   0.00   52.  1003.    2 NAD-SFC NoSubs
10  7 29 210 11  171.7 -9.000 -9.000 -9.000  650. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  298.1   2.0    0   0.00   46.  1002.    2 NAD-SFC NoSubs
10  7 29 210 12  184.2 -9.000 -9.000 -9.000  766. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  300.0   2.0    0   0.00   42.  1001.    2 NAD-SFC NoSubs
10  7 29 210 13  185.5  0.121  1.653  0.013  869.  101.     -1.0  0.2720  0.52  0.19   0.50  329.0  15.0  301.4   2.0    0   0.00   38.  1000.    2 NAD-SFC NoSubs
10  7 29 210 14  176.0  0.184  1.677  0.014  957.  190.     -3.2  0.2930  0.52  0.19   1.00  342.0  15.0  302.6   2.0    0   0.00   36.  1000.    2 NAD-SFC NoSubs
10  7 29 210 15  155.0  0.234  1.638  0.014 1012.  271.     -7.3  0.2930  0.52  0.19   1.50  348.0  15.0  303.2   2.0    0   0.00   35.   999.    2 NAD-SFC NoSubs
10  7 29 210 16  123.8  0.332  1.539  0.014 1051.  459.    -26.3  0.2930  0.52  0.20   2.60  360.0  15.0  303.8   2.0    0   0.00   32.   999.    2 NAD-SFC NoSubs
10  7 29 210 17   83.7  0.321  1.361  0.014 1075.  437.    -35.3  0.2940  0.52  0.22   2.60   12.0  15.0  303.2   2.0    0   0.00   40.   999.    2 NAD-SFC NoSubs
10  7 29 210 18   37.5  0.348  1.045  0.014 1085.  492.   -100.1  0.2940  0.52  0.29   3.10   12.0  15.0  302.6   2.0    0   0.00   46.   999.    2 NAD-SFC NoSubs
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10  7 29 210 19  -13.5  0.309 -9.000 -9.000 -999.  413.    194.9 0.2930  0.52  0.51  3.10  341.0  15.0  301.8  2.0   0  0.00  47.   999.   2 NAD-SFC NoSubs
10  7 29 210 20  -48.3  0.468 -9.000 -9.000 -999.  767.    188.7 0.2160  0.52  1.00  5.10  279.0  15.0  298.5  2.0   0  0.00  57.  1000.   2 NAD-SFC NoSubs
10  7 29 210 21  -46.4  0.443 -9.000 -9.000 -999.  708.    167.1 0.1750  0.52  1.00  5.10  268.0  15.0  294.8  2.0   0  0.00  69.  1000.   2 NAD-SFC NoSubs
10  7 29 210 22  -39.2  0.372 -9.000 -9.000 -999.  549.    117.7 0.2160  0.52  1.00  4.10  270.0  15.0  293.4  2.0   0  0.00  72.  1001.   2 NAD-SFC NoSubs
10  7 29 210 23  -29.3  0.278 -9.000 -9.000 -999.  357.     65.3 0.2160  0.52  1.00  3.10  285.0  15.0  292.5  2.0   0  0.00  74.  1001.   2 NAD-SFC NoSubs
10  7 29 210 24  -24.8  0.246 -9.000 -9.000 -999.  293.     53.6 0.2720  0.52  1.00  2.60  300.0  15.0  292.0  2.0   0  0.00  75.  1001.   2 NAD-SFC NoSubs
10  7 30 211  1  -24.8  0.246 -9.000 -9.000 -999.  293.     53.6 0.2720  0.52  1.00  2.60  312.0  15.0  291.9  2.0   0  0.00  75.  1001.   2 NAD-SFC NoSubs
10  7 30 211  2  -15.9  0.195 -9.000 -9.000 -999.  208.     41.8 0.2720  0.52  1.00  2.10  318.0  15.0  291.6  2.0   0  0.00  76.  1001.   2 NAD-SFC NoSubs
10  7 30 211  3  -15.9  0.195 -9.000 -9.000 -999.  207.     41.7 0.2720  0.52  1.00  2.10  328.0  15.0  291.2  2.0   0  0.00  78.  1002.   2 NAD-SFC NoSubs
10  7 30 211  4   -8.3  0.140 -9.000 -9.000 -999.  126.     29.5 0.2930  0.52  1.00  1.50  336.0  15.0  290.8  2.0   0  0.00  81.  1002.   2 NAD-SFC NoSubs
10  7 30 211  5   -4.0  0.102 -9.000 -9.000 -999.   79.     23.6 0.2930  0.52  1.00  1.00  352.0  15.0  290.2  2.0   0  0.00  85.  1002.   2 NAD-SFC NoSubs
10  7 30 211  6   -3.4  0.097 -9.000 -9.000 -999.   73.     24.2 0.2930  0.52  0.57  1.00  354.0  15.0  290.0  2.0   0  0.00  88.  1002.   2 NAD-SFC NoSubs
10  7 30 211  7   26.1  0.193  0.504  0.010  175.  204.    -24.8 0.2940  0.52  0.31  1.50    8.0  15.0  291.2  2.0   0  0.00  82.  1003.   2 NAD-SFC NoSubs
10  7 30 211  8   73.1 -9.000 -9.000 -9.000  310. -999. -99999.0 0.2235  0.52  0.23  0.00    0.0  15.0  293.2  2.0   0  0.00  74.  1002.   2 NAD-SFC NoSubs
10  7 30 211  9  114.7 -9.000 -9.000 -9.000  436. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0  295.0  2.0   0  0.00  67.  1002.   2 NAD-SFC NoSubs
10  7 30 211 10  148.2 -9.000 -9.000 -9.000  559. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  297.1  2.0   0  0.00  60.  1002.   2 NAD-SFC NoSubs
10  7 30 211 11  171.9 -9.000 -9.000 -9.000  677. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  299.1  2.0   0  0.00  53.  1001.   2 NAD-SFC NoSubs
10  7 30 211 12  184.2 -9.000 -9.000 -9.000  793. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  300.8  2.0   0  0.00  48.  1000.   2 NAD-SFC NoSubs
10  7 30 211 13  185.6 -9.000 -9.000 -9.000  896. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  302.2  2.0   0  0.00  44.   999.   2 NAD-SFC NoSubs
10  7 30 211 14  176.1  0.120  1.691  0.014  980.  100.     -1.0 0.2720  0.52  0.19  0.50  325.0  15.0  303.4  2.0   0  0.00  40.   999.   2 NAD-SFC NoSubs
10  7 30 211 15  155.2  0.234  1.646  0.014 1024.  271.     -7.3 0.2930  0.52  0.19  1.50  341.0  15.0  304.2  2.0   0  0.00  38.   998.   2 NAD-SFC NoSubs
10  7 30 211 16  123.9  0.286  1.543  0.014 1058.  367.    -16.8 0.2940  0.52  0.20  2.10    2.0  15.0  304.5  2.0   0  0.00  37.   998.   2 NAD-SFC NoSubs
10  7 30 211 17   83.7  0.321  1.364  0.014 1080.  437.    -35.2 0.2940  0.52  0.22  2.60    9.0  15.0  304.1  2.0   0  0.00  44.   998.   2 NAD-SFC NoSubs
10  7 30 211 18   38.6  0.303  1.057  0.014 1089.  400.    -63.8 0.2940  0.52  0.29  2.60   24.0  15.0  303.6  2.0   0  0.00  50.   998.   3 NAD-SFC NoSubs
10  7 30 211 19  -10.9  0.310 -9.000 -9.000 -999.  415.    244.1 0.2930  0.52  0.52  3.10  334.0  15.0  302.8  2.0   0  0.00  52.   998.   3 NAD-SFC NoSubs
10  7 30 211 20  -47.0  0.468 -9.000 -9.000 -999.  768.    194.0 0.2160  0.52  1.00  5.10  280.0  15.0  298.8  2.0   0  0.00  63.   999.   3 NAD-SFC NoSubs
10  7 30 211 21  -47.5  0.468 -9.000 -9.000 -999.  768.    191.7 0.2160  0.52  1.00  5.10  271.0  15.0  295.4  2.0   0  0.00  69.   999.   3 NAD-SFC NoSubs
10  7 30 211 22  -36.1  0.353 -9.000 -9.000 -999.  513.    108.8 0.1750  0.52  1.00  4.10  266.0  15.0  294.2  2.0   0  0.00  72.  1000.   3 NAD-SFC NoSubs
10  7 30 211 23  -33.4  0.325 -9.000 -9.000 -999.  446.     92.1 0.2160  0.52  1.00  3.60  277.0  15.0  293.2  2.0   0  0.00  74.  1000.   3 NAD-SFC NoSubs
10  7 30 211 24  -30.5  0.297 -9.000 -9.000 -999.  388.     76.4 0.2720  0.52  1.00  3.10  304.0  15.0  292.8  2.0   0  0.00  76.  1000.   3 NAD-SFC NoSubs
10  7 31 212  1  -24.5  0.246 -9.000 -9.000 -999.  294.     54.4 0.2720  0.52  1.00  2.60  319.0  15.0  292.2  2.0   0  0.00  76.  1000.   3 NAD-SFC NoSubs
10  7 31 212  2  -16.3  0.200 -9.000 -9.000 -999.  215.     43.8 0.2930  0.52  1.00  2.10  333.0  15.0  292.1  2.0   0  0.00  77.  1000.   3 NAD-SFC NoSubs
10  7 31 212  3  -15.9  0.195 -9.000 -9.000 -999.  207.     41.8 0.2720  0.52  1.00  2.10  318.0  15.0  291.8  2.0   0  0.00  78.  1000.   2 NAD-SFC NoSubs
10  7 31 212  4   -8.2  0.140 -9.000 -9.000 -999.  126.     29.5 0.2930  0.52  1.00  1.50  332.0  15.0  291.5  2.0   0  0.00  80.  1000.   2 NAD-SFC NoSubs
10  7 31 212  5   -8.3  0.140 -9.000 -9.000 -999.  125.     29.5 0.2930  0.52  1.00  1.50  330.0  15.0  291.1  2.0   0  0.00  82.  1000.   2 NAD-SFC NoSubs
10  7 31 212  6   -3.4  0.097 -9.000 -9.000 -999.   73.     24.1 0.2930  0.52  0.58  1.00  352.0  15.0  290.9  2.0   0  0.00  84.  1001.   2 NAD-SFC NoSubs
10  7 31 212  7   25.9  0.193  0.483  0.010  155.  204.    -24.8 0.2930  0.52  0.31  1.50  355.0  15.0  292.2  2.0   0  0.00  77.  1001.   2 NAD-SFC NoSubs
10  7 31 212  8   72.9 -9.000 -9.000 -9.000  303. -999. -99999.0 0.2235  0.52  0.23  0.00    0.0  15.0  294.0  2.0   0  0.00  72.  1001.   2 NAD-SFC NoSubs
10  7 31 212  9  114.6 -9.000 -9.000 -9.000  438. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0  295.8  2.0   0  0.00  67.  1001.   2 NAD-SFC NoSubs
10  7 31 212 10  148.1 -9.000 -9.000 -9.000  569. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  297.6  2.0   0  0.00  62.  1001.   2 NAD-SFC NoSubs
10  7 31 212 11  171.6 -9.000 -9.000 -9.000  695. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  299.2  2.0   0  0.00  57.  1000.   2 NAD-SFC NoSubs
10  7 31 212 12  184.0 -9.000 -9.000 -9.000  821. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  300.9  2.0   0  0.00  53.   999.   2 NAD-SFC NoSubs
10  7 31 212 13  185.5  0.123  1.692  0.013  931.  103.     -1.0 0.2930  0.52  0.19  0.50  332.0  15.0  302.4  2.0   0  0.00  47.   998.   2 NAD-SFC NoSubs
10  7 31 212 14  175.9  0.184  1.706  0.013 1006.  190.     -3.2 0.2930  0.52  0.19  1.00  354.0  15.0  303.5  2.0   0  0.00  43.   998.   2 NAD-SFC NoSubs
10  7 31 212 15  154.8 -9.000 -9.000 -9.000 1057. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  304.2  2.0   0  0.00  41.   997.   2 NAD-SFC NoSubs
10  7 31 212 16  123.5  0.286  1.561  0.013 1095.  367.    -16.8 0.2940  0.52  0.20  2.10   14.0  15.0  304.5  2.0   0  0.00  40.   996.   2 NAD-SFC NoSubs
10  7 31 212 17   84.0  0.321  1.383  0.013 1120.  437.    -35.1 0.2940  0.52  0.22  2.60   25.0  15.0  304.2  2.0   0  0.00  44.   996.   3 NAD-SFC NoSubs
10  7 31 212 18   38.4  0.257  1.068  0.013 1130.  314.    -39.2 0.2940  0.52  0.29  2.10   15.0  15.0  304.2  2.0   0  0.00  48.   997.   3 NAD-SFC NoSubs
10  7 31 212 19  -12.5  0.332 -9.000 -9.000 -999.  460.    260.6 0.2160  0.52  0.52  3.60  296.0  15.0  302.9  2.0   0  0.00  50.   998.   3 NAD-SFC NoSubs
10  7 31 212 20  -44.6  0.443 -9.000 -9.000 -999.  708.    173.6 0.1750  0.52  1.00  5.10  266.0  15.0  297.9  2.0   0  0.00  63.   998.   3 NAD-SFC NoSubs
10  7 31 212 21  -40.5  0.398 -9.000 -9.000 -999.  605.    138.8 0.1750  0.52  1.00  4.60  268.0  15.0  295.2  2.0   0  0.00  68.   999.   3 NAD-SFC NoSubs
10  7 31 212 22  -36.0  0.353 -9.000 -9.000 -999.  505.    108.8 0.1750  0.52  1.00  4.10  267.0  15.0  294.2  2.0   0  0.00  70.   999.   3 NAD-SFC NoSubs
10  7 31 212 23  -28.5  0.278 -9.000 -9.000 -999.  355.     67.4 0.2160  0.52  1.00  3.10  277.0  15.0  293.4  2.0   0  0.00  72.  1000.   3 NAD-SFC NoSubs
10  7 31 212 24  -22.0  0.231 -9.000 -9.000 -999.  267.     49.8 0.2160  0.52  1.00  2.60  298.0  15.0  292.8  2.0   0  0.00  73.  1000.   3 NAD-SFC NoSubs
10  8  1 213  1  -15.7  0.196 -9.000 -9.000 -999.  208.     42.5 0.2720  0.52  1.00  2.10  309.0  15.0  292.4  2.0   0  0.00  74.  1000.   3 NAD-SFC NoSubs
10  8  1 213  2   -8.1  0.140 -9.000 -9.000 -999.  126.     29.9 0.2930  0.52  1.00  1.50  330.0  15.0  292.1  2.0   0  0.00  74.  1000.   3 NAD-SFC NoSubs
10  8  1 213  3   -7.9  0.137 -9.000 -9.000 -999.  121.     29.1 0.2720  0.52  1.00  1.50  319.0  15.0  291.8  2.0   0  0.00  75.  1000.   3 NAD-SFC NoSubs
10  8  1 213  4  -15.7  0.196 -9.000 -9.000 -999.  208.     42.4 0.2720  0.52  1.00  2.10  310.0  15.0  291.6  2.0   0  0.00  76.  1000.   3 NAD-SFC NoSubs
10  8  1 213  5  -15.7  0.196 -9.000 -9.000 -999.  207.     42.4 0.2720  0.52  1.00  2.10  307.0  15.0  291.4  2.0   0  0.00  76.  1000.   3 NAD-SFC NoSubs
10  8  1 213  6  -14.1  0.197 -9.000 -9.000 -999.  211.     48.8 0.2720  0.52  0.58  2.10  311.0  15.0  291.2  2.0   0  0.00  77.  1001.   3 NAD-SFC NoSubs
10  8  1 213  7   25.3  0.189  0.452  0.009  130.  198.    -24.0 0.2720  0.52  0.31  1.50  319.0  15.0  291.8  2.0   0  0.00  76.  1001.   2 NAD-SFC NoSubs
10  8  1 213  8   72.3  0.108  0.831  0.008  283.   87.     -1.6 0.2930  0.52  0.23  0.50  337.0  15.0  293.4  2.0   0  0.00  71.  1001.   2 NAD-SFC NoSubs
10  8  1 213  9  114.0 -9.000 -9.000 -9.000  442. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0  295.2  2.0   0  0.00  66.  1001.   2 NAD-SFC NoSubs
10  8  1 213 10  147.6 -9.000 -9.000 -9.000  580. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  297.1  2.0   0  0.00  62.  1001.   2 NAD-SFC NoSubs
10  8  1 213 11  171.1 -9.000 -9.000 -9.000  724. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  298.8  2.0   0  0.00  57.  1000.   2 NAD-SFC NoSubs
10  8  1 213 12  183.4  0.121  1.647  0.010  870.  101.     -1.0 0.2720  0.52  0.19  0.50  315.0  15.0  300.2  2.0   0  0.00  53.   999.   2 NAD-SFC NoSubs
10  8  1 213 13  184.8 -9.000 -9.000 -9.000  987. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  301.8  2.0   0  0.00  48.   999.   2 NAD-SFC NoSubs
10  8  1 213 14  175.2  0.122  1.731  0.012 1056.  102.     -1.0 0.2930  0.52  0.19  0.50  336.0  15.0  302.8  2.0   0  0.00  44.   998.   2 NAD-SFC NoSubs
10  8  1 213 15  154.0  0.181  1.688  0.012 1114.  185.     -3.4 0.2940  0.52  0.19  1.00   10.0  15.0  303.2  2.0   0  0.00  42.   997.   2 NAD-SFC NoSubs
10  8  1 213 16  122.4  0.286  1.584  0.012 1156.  366.    -16.9 0.2940  0.52  0.20  2.10   18.0  15.0  303.2  2.0   0  0.00  42.   997.   2 NAD-SFC NoSubs
10  8  1 213 17   82.1  0.309  1.398  0.012 1184.  411.    -31.8 0.2470  0.52  0.22  2.60   38.0  15.0  303.0  2.0   0  0.00  51.   997.   2 NAD-SFC NoSubs
10  8  1 213 18   36.8  0.334  1.072  0.012 1194.  463.    -90.3 0.2470  0.52  0.29  3.10   44.0  15.0  302.1  2.0   0  0.00  54.   998.   3 NAD-SFC NoSubs
10  8  1 213 19   -8.9  0.196 -9.000 -9.000 -999.  220.     75.0 0.2470  0.52  0.53  2.10   36.0  15.0  301.2  2.0   0  0.00  56.   998.   3 NAD-SFC NoSubs
10  8  1 213 20  -32.6  0.326 -9.000 -9.000 -999.  446.     94.3 0.2160  0.52  1.00  3.60  289.0  15.0  299.9  2.0   0  0.00  60.   999.   3 NAD-SFC NoSubs
10  8  1 213 21  -47.5  0.468 -9.000 -9.000 -999.  768.    192.2 0.2160  0.52  1.00  5.10  276.0  15.0  296.0  2.0   0  0.00  70.   999.   3 NAD-SFC NoSubs
10  8  1 213 22  -42.9  0.420 -9.000 -9.000 -999.  656.    154.0 0.2160  0.52  1.00  4.60  277.0  15.0  294.1  2.0   0  0.00  71.  1000.   3 NAD-SFC NoSubs
10  8  1 213 23  -33.4  0.325 -9.000 -9.000 -999.  451.     92.1 0.2160  0.52  1.00  3.60  278.0  15.0  293.1  2.0   0  0.00  74.  1001.   3 NAD-SFC NoSubs
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10  8  1 213 24  -28.6  0.278 -9.000 -9.000 -999.  353.     67.1  0.2160  0.52  1.00  3.10  289.0  15.0  292.2  2.0   0  0.00  77.  1001.   3 NAD-SFC NoSubs
10  8  2 214  1   -7.9  0.137 -9.000 -9.000 -999.  136.     29.1  0.2720  0.52  1.00  1.50  322.0  15.0  291.8  2.0   0  0.00  77.  1001.   3 NAD-SFC NoSubs
10  8  2 214  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  291.4  2.0   0  0.00  77.  1002.   3 NAD-SFC NoSubs
10  8  2 214  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  291.2  2.0   0  0.00  78.  1002.   3 NAD-SFC NoSubs
10  8  2 214  4   -1.6  0.083 -9.000 -9.000 -999.   58.     31.7  0.2930  0.52  1.00  0.50  344.0  15.0  291.1  2.0   0  0.00  77.  1002.   3 NAD-SFC NoSubs
10  8  2 214  5   -1.4  0.079 -9.000 -9.000 -999.   53.     31.0  0.1750  0.52  1.00  0.50  265.0  15.0  291.0  2.0   0  0.00  76.  1002.   2 NAD-SFC NoSubs
10  8  2 214  6   11.7 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.59  0.00    0.0  15.0  290.9  2.0   0  0.00  76.  1002.   2 NAD-SFC NoSubs
10  8  2 214  7   24.7  0.092  0.467  0.011  147.   67.     -2.8  0.2720  0.52  0.31  0.50  317.0  15.0  291.6  2.0   0  0.00  73.  1003.   2 NAD-SFC NoSubs
10  8  2 214  8   71.8 -9.000 -9.000 -9.000  253. -999. -99999.0  0.2235  0.52  0.23  0.00    0.0  15.0  293.1  2.0   0  0.00  67.  1003.   2 NAD-SFC NoSubs
10  8  2 214  9  113.5 -9.000 -9.000 -9.000  391. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  294.6  2.0   0  0.00  64.  1003.   2 NAD-SFC NoSubs
10  8  2 214 10  146.8 -9.000 -9.000 -9.000  541. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  295.9  2.0   0  0.00  61.  1002.   2 NAD-SFC NoSubs
10  8  2 214 11  170.3 -9.000 -9.000 -9.000  677. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  297.4  2.0   0  0.00  58.  1002.   2 NAD-SFC NoSubs
10  8  2 214 12  182.6 -9.000 -9.000 -9.000  808. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  298.9  2.0   0  0.00  55.  1001.   2 NAD-SFC NoSubs
10  8  2 214 13  183.8 -9.000 -9.000 -9.000  921. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  300.2  2.0   0  0.00  51.  1001.   2 NAD-SFC NoSubs
10  8  2 214 14  174.1 -9.000 -9.000 -9.000 1018. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.2  2.0   0  0.00  48.  1000.   2 NAD-SFC NoSubs
10  8  2 214 15  152.8 -9.000 -9.000 -9.000 1095. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.8  2.0   0  0.00  47.  1000.   2 NAD-SFC NoSubs
10  8  2 214 16  121.3  0.111  1.576  0.013 1153.   89.     -1.0  0.2470  0.52  0.20  0.50   44.0  15.0  302.0  2.0   0  0.00  47.  1000.   2 NAD-SFC NoSubs
10  8  2 214 17   81.1  0.102  1.393  0.013 1189.   78.     -1.2  0.2090  0.52  0.22  0.50   69.0  15.0  301.9  2.0   0  0.00  52.  1000.   2 NAD-SFC NoSubs
10  8  2 214 18   34.6  0.094  1.053  0.013 1203.   69.     -2.2  0.2470  0.52  0.30  0.50   56.0  15.0  301.2  2.0   0  0.00  56.  1000.   2 NAD-SFC NoSubs
10  8  2 214 19   16.6 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.53  0.00    0.0  15.0  300.1  2.0   0  0.00  61.  1000.   2 NAD-SFC NoSubs
10  8  2 214 20   -1.4  0.078 -9.000 -9.000 -999.   53.     30.7  0.1950  0.52  1.00  0.50  227.0  15.0  298.9  2.0   0  0.00  66.  1001.   3 NAD-SFC NoSubs
10  8  2 214 21   -3.2  0.092 -9.000 -9.000 -999.   67.     21.6  0.1750  0.52  1.00  1.00  240.0  15.0  297.9  2.0   0  0.00  71.  1001.   3 NAD-SFC NoSubs
10  8  2 214 22  -28.2  0.278 -9.000 -9.000 -999.  352.     68.2  0.2160  0.52  1.00  3.10  275.0  15.0  296.8  2.0   0  0.00  72.  1001.   3 NAD-SFC NoSubs
10  8  2 214 23  -29.1  0.278 -9.000 -9.000 -999.  352.     66.0  0.2160  0.52  1.00  3.10  271.0  15.0  295.2  2.0   0  0.00  74.  1001.   2 NAD-SFC NoSubs
10  8  2 214 24  -14.2  0.183 -9.000 -9.000 -999.  192.     38.4  0.2160  0.52  1.00  2.10  273.0  15.0  294.4  2.0   0  0.00  73.  1001.   2 NAD-SFC NoSubs
10  8  3 215  1   -3.5  0.096 -9.000 -9.000 -999.   74.     22.4  0.2160  0.52  1.00  1.00  280.0  15.0  294.0  2.0   0  0.00  73.  1002.   3 NAD-SFC NoSubs
10  8  3 215  2   -7.1  0.129 -9.000 -9.000 -999.  111.     26.9  0.2160  0.52  1.00  1.50  297.0  15.0  293.6  2.0   0  0.00  74.  1002.   3 NAD-SFC NoSubs
10  8  3 215  3   -8.0  0.137 -9.000 -9.000 -999.  122.     28.8  0.2720  0.52  1.00  1.50  300.0  15.0  293.1  2.0   0  0.00  77.  1002.   2 NAD-SFC NoSubs
10  8  3 215  4  -15.9  0.195 -9.000 -9.000 -999.  207.     41.9  0.2720  0.52  1.00  2.10  300.0  15.0  292.5  2.0   0  0.00  81.  1003.   2 NAD-SFC NoSubs
10  8  3 215  5  -22.4  0.230 -9.000 -9.000 -999.  266.     49.0  0.2160  0.52  1.00  2.60  299.0  15.0  291.9  2.0   0  0.00  85.  1003.   2 NAD-SFC NoSubs
10  8  3 215  6  -21.8  0.247 -9.000 -9.000 -999.  295.     62.0  0.2720  0.52  0.59  2.60  301.0  15.0  291.4  2.0   0  0.00  89.  1003.   2 NAD-SFC NoSubs
10  8  3 215  7   24.6  0.192  0.440  0.008  124.  203.    -25.8  0.2930  0.52  0.31  1.50  349.0  15.0  292.8  2.0   0  0.00  83.  1004.   2 NAD-SFC NoSubs
10  8  3 215  8   71.8 -9.000 -9.000 -9.000  227. -999. -99999.0  0.2235  0.52  0.23  0.00    0.0  15.0  294.5  2.0   0  0.00  76.  1004.   2 NAD-SFC NoSubs
10  8  3 215  9  113.8 -9.000 -9.000 -9.000  355. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  296.8  2.0   0  0.00  68.  1003.   2 NAD-SFC NoSubs
10  8  3 215 10  147.6 -9.000 -9.000 -9.000  555. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  298.8  2.0   0  0.00  61.  1003.   2 NAD-SFC NoSubs
10  8  3 215 11  171.3  0.114  1.556  0.009  788.   92.     -1.0  0.2160  0.52  0.19  0.50  286.0  15.0  300.5  2.0   0  0.00  55.  1002.   2 NAD-SFC NoSubs
10  8  3 215 12  183.7  0.115  1.717  0.013  986.   93.     -1.0  0.2160  0.52  0.19  0.50  294.0  15.0  302.1  2.0   0  0.00  50.  1001.   2 NAD-SFC NoSubs
10  8  3 215 13  185.1 -9.000 -9.000 -9.000 1051. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  303.5  2.0   0  0.00  45.  1000.   2 NAD-SFC NoSubs
10  8  3 215 14  175.4  0.122  1.759  0.013 1109.  102.     -1.0  0.2930  0.52  0.19  0.50  339.0  15.0  304.4  2.0   0  0.00  41.  1000.   2 NAD-SFC NoSubs
10  8  3 215 15  154.1  0.234  1.710  0.013 1158.  271.     -7.4  0.2930  0.52  0.19  1.50  360.0  15.0  305.0  2.0   0  0.00  39.   999.   2 NAD-SFC NoSubs
10  8  3 215 16  122.5  0.228  1.601  0.013 1194.  261.     -8.6  0.2940  0.52  0.20  1.50    3.0  15.0  305.1  2.0   0  0.00  35.   999.   2 NAD-SFC NoSubs
10  8  3 215 17   82.0  0.275  1.409  0.013 1218.  345.    -22.5  0.2940  0.52  0.22  2.10   12.0  15.0  304.8  2.0   0  0.00  40.   999.   2 NAD-SFC NoSubs
10  8  3 215 18   35.6  0.255  1.070  0.013 1228.  309.    -41.5  0.2940  0.52  0.30  2.10   15.0  15.0  304.4  2.0   0  0.00  45.   999.   2 NAD-SFC NoSubs
10  8  3 215 19  -14.1  0.256 -9.000 -9.000 -999.  311.    106.5  0.2940  0.52  0.54  2.60   14.0  15.0  303.1  2.0   0  0.00  49.   999.   2 NAD-SFC NoSubs
10  8  3 215 20  -24.4  0.246 -9.000 -9.000 -999.  293.     54.6  0.2720  0.52  1.00  2.60  311.0  15.0  301.8  2.0   0  0.00  52.  1000.   2 NAD-SFC NoSubs
10  8  3 215 21  -48.3  0.468 -9.000 -9.000 -999.  767.    188.6  0.2160  0.52  1.00  5.10  277.0  15.0  298.4  2.0   0  0.00  63.  1000.   2 NAD-SFC NoSubs
10  8  3 215 22  -41.6  0.398 -9.000 -9.000 -999.  606.    135.3  0.1750  0.52  1.00  4.60  267.0  15.0  295.6  2.0   0  0.00  70.  1001.   2 NAD-SFC NoSubs
10  8  3 215 23  -34.1  0.325 -9.000 -9.000 -999.  449.     90.1  0.2160  0.52  1.00  3.60  277.0  15.0  294.5  2.0   0  0.00  72.  1001.   2 NAD-SFC NoSubs
10  8  3 215 24  -14.2  0.183 -9.000 -9.000 -999.  202.     38.4  0.2160  0.52  1.00  2.10  290.0  15.0  294.1  2.0   0  0.00  73.  1001.   2 NAD-SFC NoSubs
10  8  4 216  1   -3.6  0.097 -9.000 -9.000 -999.   76.     22.4  0.2160  0.52  1.00  1.00  276.0  15.0  293.8  2.0   0  0.00  74.  1001.   2 NAD-SFC NoSubs
10  8  4 216  2   -3.3  0.093 -9.000 -9.000 -999.   68.     21.6  0.1750  0.52  1.00  1.00  259.0  15.0  293.6  2.0   0  0.00  75.  1001.   3 NAD-SFC NoSubs
10  8  4 216  3   -3.4  0.093 -9.000 -9.000 -999.   68.     21.7  0.1750  0.52  1.00  1.00  257.0  15.0  293.2  2.0   0  0.00  76.  1001.   2 NAD-SFC NoSubs
10  8  4 216  4   -1.4  0.079 -9.000 -9.000 -999.   53.     30.9  0.1750  0.52  1.00  0.50  268.0  15.0  292.9  2.0   0  0.00  79.  1001.   2 NAD-SFC NoSubs
10  8  4 216  5   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.2160  0.52  1.00  0.50  289.0  15.0  292.4  2.0   0  0.00  82.  1002.   2 NAD-SFC NoSubs
10  8  4 216  6   -1.4  0.078 -9.000 -9.000 -999.   52.     30.1  0.2720  0.52  0.60  0.50  322.0  15.0  291.9  2.0   0  0.00  84.  1002.   2 NAD-SFC NoSubs
10  8  4 216  7   24.3 -9.000 -9.000 -9.000  127. -999. -99999.0  0.2235  0.52  0.32  0.00    0.0  15.0  293.4  2.0   0  0.00  80.  1002.   2 NAD-SFC NoSubs
10  8  4 216  8   71.6 -9.000 -9.000 -9.000  273. -999. -99999.0  0.2235  0.52  0.23  0.00    0.0  15.0  295.2  2.0   0  0.00  73.  1002.   2 NAD-SFC NoSubs
10  8  4 216  9  113.6 -9.000 -9.000 -9.000  397. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  297.1  2.0   0  0.00  65.  1002.   2 NAD-SFC NoSubs
10  8  4 216 10  147.3 -9.000 -9.000 -9.000  546. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  298.9  2.0   0  0.00  60.  1002.   2 NAD-SFC NoSubs
10  8  4 216 11  171.0 -9.000 -9.000 -9.000  689. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  300.6  2.0   0  0.00  54.  1001.   2 NAD-SFC NoSubs
10  8  4 216 12  183.5 -9.000 -9.000 -9.000  848. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  302.2  2.0   0  0.00  49.  1000.   2 NAD-SFC NoSubs
10  8  4 216 13  184.8 -9.000 -9.000 -9.000  981. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  303.6  2.0   0  0.00  43.   999.   2 NAD-SFC NoSubs
10  8  4 216 14  175.1  0.122  1.741  0.011 1074.  102.     -1.0  0.2930  0.52  0.19  0.50  347.0  15.0  304.6  2.0   0  0.00  39.   998.   2 NAD-SFC NoSubs
10  8  4 216 15  153.8 -9.000 -9.000 -9.000 1149. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  305.2  2.0   0  0.00  36.   998.   2 NAD-SFC NoSubs
10  8  4 216 16  122.2  0.285  1.605  0.012 1205.  366.    -16.9  0.2940  0.52  0.20  2.10    8.0  15.0  305.4  2.0   0  0.00  36.   997.   2 NAD-SFC NoSubs
10  8  4 216 17   81.6  0.275  1.416  0.012 1240.  345.    -22.5  0.2940  0.52  0.22  2.10   18.0  15.0  305.0  2.0   0  0.00  43.   997.   2 NAD-SFC NoSubs
10  8  4 216 18   35.0  0.300  1.073  0.012 1253.  395.    -68.7  0.2940  0.52  0.30  2.60   22.0  15.0  304.5  2.0   0  0.00  48.   997.   2 NAD-SFC NoSubs
10  8  4 216 19  -15.3  0.308 -9.000 -9.000 -999.  410.    170.1  0.2930  0.52  0.54  3.10  332.0  15.0  303.5  2.0   0  0.00  50.   998.   3 NAD-SFC NoSubs
10  8  4 216 20  -54.0  0.525 -9.000 -9.000 -999.  913.    238.5  0.2160  0.52  1.00  5.70  282.0  15.0  299.2  2.0   0  0.00  61.   998.   2 NAD-SFC NoSubs
10  8  4 216 21  -54.7  0.525 -9.000 -9.000 -999.  913.    235.6  0.2160  0.52  1.00  5.70  275.0  15.0  295.8  2.0   0  0.00  68.   999.   2 NAD-SFC NoSubs
10  8  4 216 22  -44.0  0.420 -9.000 -9.000 -999.  662.    149.9  0.2160  0.52  1.00  4.60  275.0  15.0  294.2  2.0   0  0.00  71.   999.   2 NAD-SFC NoSubs
10  8  4 216 23  -38.2  0.373 -9.000 -9.000 -999.  548.    120.8  0.2160  0.52  1.00  4.10  283.0  15.0  293.2  2.0   0  0.00  73.   999.   3 NAD-SFC NoSubs
10  8  4 216 24  -28.6  0.278 -9.000 -9.000 -999.  357.     67.1  0.2160  0.52  1.00  3.10  299.0  15.0  292.4  2.0   0  0.00  75.   999.   3 NAD-SFC NoSubs
10  8  5 217  1  -15.7  0.196 -9.000 -9.000 -999.  210.     42.4  0.2720  0.52  1.00  2.10  310.0  15.0  291.9  2.0   0  0.00  76.  1000.   3 NAD-SFC NoSubs
10  8  5 217  2  -15.7  0.196 -9.000 -9.000 -999.  208.     42.4  0.2720  0.52  1.00  2.10  322.0  15.0  291.5  2.0   0  0.00  76.  1000.   3 NAD-SFC NoSubs
10  8  5 217  3  -24.5  0.246 -9.000 -9.000 -999.  293.     54.3  0.2720  0.52  1.00  2.60  314.0  15.0  291.2  2.0   0  0.00  75.  1000.   3 NAD-SFC NoSubs
10  8  5 217  4  -15.7  0.196 -9.000 -9.000 -999.  208.     42.4  0.2720  0.52  1.00  2.10  315.0  15.0  291.0  2.0   0  0.00  75.  1000.   3 NAD-SFC NoSubs
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10  8  5 217  5  -15.7  0.196 -9.000 -9.000 -999.  207.     42.3  0.2720  0.52  1.00  2.10  321.0  15.0  290.8  2.0  0  0.00  76.  1000.  3 NAD-SFC NoSubs
10  8  5 217  6   -7.5  0.140 -9.000 -9.000 -999.  126.     32.7  0.2930  0.52  0.60  1.50  335.0  15.0  290.5  2.0  0  0.00  78.  1000.  3 NAD-SFC NoSubs
10  8  5 217  7   24.4  0.192  0.515  0.010  198.  202.    -25.8  0.2930  0.52  0.32  1.50  346.0  15.0  291.4  2.0  0  0.00  74.  1000.  3 NAD-SFC NoSubs
10  8  5 217  8   70.4 -9.000 -9.000 -9.000  301. -999. -99999.0  0.2235  0.52  0.23  0.00    0.0  15.0  293.1  2.0  0  0.00  69.  1000.  2 NAD-SFC NoSubs
10  8  5 217  9  112.3 -9.000 -9.000 -9.000  419. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  294.8  2.0  0  0.00  64.   999.  2 NAD-SFC NoSubs
10  8  5 217 10  146.1 -9.000 -9.000 -9.000  552. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  296.8  2.0  0  0.00  59.   999.  2 NAD-SFC NoSubs
10  8  5 217 11  169.7  0.119  1.478  0.010  678.   99.     -1.0  0.2720  0.52  0.19  0.50  321.0  15.0  298.4  2.0  0  0.00  55.   998.  2 NAD-SFC NoSubs
10  8  5 217 12  182.2  0.121  1.600  0.011  801.  101.     -1.0  0.2720  0.52  0.19  0.50  318.0  15.0  300.1  2.0  0  0.00  51.   997.  2 NAD-SFC NoSubs
10  8  5 217 13  183.5  0.121  1.673  0.011  908.  101.     -1.0  0.2720  0.52  0.19  0.50  323.0  15.0  301.6  2.0  0  0.00  47.   997.  2 NAD-SFC NoSubs
10  8  5 217 14  173.8  0.184  1.693  0.012  994.  189.     -3.2  0.2930  0.52  0.19  1.00  332.0  15.0  302.8  2.0  0  0.00  43.   996.  2 NAD-SFC NoSubs
10  8  5 217 15  152.5  0.233  1.653  0.012 1053.  271.     -7.4  0.2930  0.52  0.19  1.50  342.0  15.0  303.5  2.0  0  0.00  40.   995.  2 NAD-SFC NoSubs
10  8  5 217 16  120.8  0.331  1.551  0.012 1097.  458.    -26.7  0.2930  0.52  0.20  2.60  350.0  15.0  303.8  2.0  0  0.00  41.   995.  2 NAD-SFC NoSubs
10  8  5 217 17   80.9  0.320  1.369  0.012 1125.  435.    -36.0  0.2940  0.52  0.22  2.60    6.0  15.0  303.4  2.0  0  0.00  47.   995.  3 NAD-SFC NoSubs
10  8  5 217 18   34.9  0.300  1.037  0.012 1136.  395.    -68.9  0.2940  0.52  0.30  2.60    1.0  15.0  303.1  2.0  0  0.00  53.   995.  3 NAD-SFC NoSubs
10  8  5 217 19  -26.1  0.453 -9.000 -9.000 -999.  732.    317.2  0.2720  0.52  0.55  4.60  301.0  15.0  301.2  2.0  0  0.00  56.   996.  3 NAD-SFC NoSubs
10  8  5 217 20  -53.1  0.525 -9.000 -9.000 -999.  913.    242.6  0.2160  0.52  1.00  5.70  270.0  15.0  296.4  2.0  0  0.00  62.   997.  3 NAD-SFC NoSubs
10  8  5 217 21  -45.2  0.443 -9.000 -9.000 -999.  714.    171.3  0.1750  0.52  1.00  5.10  268.0  15.0  294.1  2.0  0  0.00  65.   997.  3 NAD-SFC NoSubs
10  8  5 217 22  -38.1  0.373 -9.000 -9.000 -999.  550.    120.7  0.2160  0.52  1.00  4.10  270.0  15.0  293.0  2.0  0  0.00  68.   997.  3 NAD-SFC NoSubs
10  8  5 217 23  -33.4  0.325 -9.000 -9.000 -999.  447.     91.8  0.2160  0.52  1.00  3.60  287.0  15.0  292.1  2.0  0  0.00  70.   998.  3 NAD-SFC NoSubs
10  8  5 217 24  -24.5  0.246 -9.000 -9.000 -999.  296.     54.3  0.2720  0.52  1.00  2.60  300.0  15.0  291.6  2.0  0  0.00  72.   998.  3 NAD-SFC NoSubs
10  8  6 218  1  -15.7  0.196 -9.000 -9.000 -999.  208.     42.4  0.2720  0.52  1.00  2.10  312.0  15.0  291.5  2.0  0  0.00  71.   998.  3 NAD-SFC NoSubs
10  8  6 218  2   -8.1  0.140 -9.000 -9.000 -999.  126.     29.9  0.2930  0.52  1.00  1.50  335.0  15.0  291.4  2.0  0  0.00  71.   998.  3 NAD-SFC NoSubs
10  8  6 218  3   -1.6  0.083 -9.000 -9.000 -999.   58.     31.7  0.2930  0.52  1.00  0.50  338.0  15.0  291.2  2.0  0  0.00  72.   998.  3 NAD-SFC NoSubs
10  8  6 218  4   -1.6  0.083 -9.000 -9.000 -999.   58.     31.8  0.2940  0.52  1.00  0.50   18.0  15.0  290.9  2.0  0  0.00  74.   998.  3 NAD-SFC NoSubs
10  8  6 218  5   -1.5  0.082 -9.000 -9.000 -999.   56.     31.5  0.2470  0.52  1.00  0.50   34.0  15.0  290.5  2.0  0  0.00  77.   998.  3 NAD-SFC NoSubs
10  8  6 218  6   -1.4  0.078 -9.000 -9.000 -999.   52.     30.3  0.2940  0.52  0.61  0.50   16.0  15.0  290.2  2.0  0  0.00  80.   999.  3 NAD-SFC NoSubs
10  8  6 218  7   24.0  0.145  0.517  0.009  205.  133.    -11.3  0.2940  0.52  0.32  1.00   13.0  15.0  291.5  2.0  0  0.00  77.   999.  3 NAD-SFC NoSubs
10  8  6 218  8   70.0 -9.000 -9.000 -9.000  311. -999. -99999.0  0.2235  0.52  0.23  0.00    0.0  15.0  293.2  2.0  0  0.00  70.   999.  2 NAD-SFC NoSubs
10  8  6 218  9  112.1 -9.000 -9.000 -9.000  440. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  295.0  2.0  0  0.00  65.   999.  2 NAD-SFC NoSubs
10  8  6 218 10  145.8 -9.000 -9.000 -9.000  584. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  297.0  2.0  0  0.00  59.   998.  2 NAD-SFC NoSubs
10  8  6 218 11  169.6 -9.000 -9.000 -9.000  721. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  299.0  2.0  0  0.00  52.   998.  2 NAD-SFC NoSubs
10  8  6 218 12  182.1 -9.000 -9.000 -9.000  851. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  300.8  2.0  0  0.00  46.   997.  2 NAD-SFC NoSubs
10  8  6 218 13  183.5  0.121  1.706  0.011  965.  101.     -1.0  0.2720  0.52  0.19  0.50  306.0  15.0  302.2  2.0  0  0.00  40.   997.  2 NAD-SFC NoSubs
10  8  6 218 14  173.6  0.120  1.717  0.011 1038.  100.     -1.0  0.2720  0.52  0.19  0.50  312.0  15.0  303.1  2.0  0  0.00  37.   996.  2 NAD-SFC NoSubs
10  8  6 218 15  152.2  0.178  1.674  0.011 1097.  180.     -3.3  0.2720  0.52  0.19  1.00  326.0  15.0  303.8  2.0  0  0.00  36.   996.  2 NAD-SFC NoSubs
10  8  6 218 16  120.9  0.227  1.571  0.011 1142.  260.     -8.6  0.2930  0.52  0.20  1.50  340.0  15.0  304.1  2.0  0  0.00  36.   996.  3 NAD-SFC NoSubs
10  8  6 218 17   80.7  0.274  1.385  0.011 1170.  344.    -22.7  0.2930  0.52  0.22  2.10  355.0  15.0  304.0  2.0  0  0.00  40.   996.  3 NAD-SFC NoSubs
10  8  6 218 18   34.3  0.386  1.044  0.011 1180.  575.   -149.1  0.2720  0.52  0.30  3.60  311.0  15.0  303.2  2.0  0  0.00  48.   996.  3 NAD-SFC NoSubs
10  8  6 218 19  -30.3  0.472 -9.000 -9.000 -999.  779.    309.2  0.2160  0.52  0.56  5.10  284.0  15.0  298.9  2.0  0  0.00  62.   997.  3 NAD-SFC NoSubs
10  8  6 218 20  -45.0  0.443 -9.000 -9.000 -999.  709.    172.2  0.1750  0.52  1.00  5.10  268.0  15.0  295.5  2.0  0  0.00  66.   998.  3 NAD-SFC NoSubs
10  8  6 218 21  -45.3  0.443 -9.000 -9.000 -999.  708.    171.0  0.1750  0.52  1.00  5.10  266.0  15.0  293.5  2.0  0  0.00  69.   998.  3 NAD-SFC NoSubs
10  8  6 218 22  -38.3  0.373 -9.000 -9.000 -999.  550.    120.4  0.2160  0.52  1.00  4.10  276.0  15.0  292.2  2.0  0  0.00  70.   998.  3 NAD-SFC NoSubs
10  8  6 218 23  -15.7  0.196 -9.000 -9.000 -999.  234.     42.4  0.2720  0.52  1.00  2.10  304.0  15.0  291.5  2.0  0  0.00  71.   999.  3 NAD-SFC NoSubs
10  8  6 218 24   -8.1  0.140 -9.000 -9.000 -999.  127.     29.9  0.2930  0.52  1.00  1.50  358.0  15.0  291.0  2.0  0  0.00  71.   999.  3 NAD-SFC NoSubs
10  8  7 219  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  290.2  2.0  0  0.00  73.   999.  3 NAD-SFC NoSubs
10  8  7 219  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  289.8  2.0  0  0.00  76.   999.  3 NAD-SFC NoSubs
10  8  7 219  3  -25.6  0.252 -9.000 -9.000 -999.  303.     55.8  0.2940  0.52  1.00  2.60   11.0  15.0  289.1  2.0  0  0.00  78.  1000.  3 NAD-SFC NoSubs
10  8  7 219  4  -25.6  0.252 -9.000 -9.000 -999.  303.     55.7  0.2940  0.52  1.00  2.60   11.0  15.0  288.6  2.0  0  0.00  80.  1000.  3 NAD-SFC NoSubs
10  8  7 219  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  288.2  2.0  0  0.00  81.  1000.  3 NAD-SFC NoSubs
10  8  7 219  6  -15.4  0.201 -9.000 -9.000 -999.  216.     47.0  0.2930  0.52  0.62  2.10  351.0  15.0  288.2  2.0  0  0.00  80.  1000.  3 NAD-SFC NoSubs
10  8  7 219  7   23.0  0.242  0.427  0.010  120.  286.    -55.1  0.2720  0.52  0.32  2.10  307.0  15.0  289.9  2.0  0  0.00  71.  1000.  3 NAD-SFC NoSubs
10  8  7 219  8   69.1  0.106  0.750  0.011  217.   97.     -1.5  0.2720  0.52  0.23  0.50  320.0  15.0  291.8  2.0  0  0.00  64.  1000.  2 NAD-SFC NoSubs
10  8  7 219  9  111.3 -9.000 -9.000 -9.000  362. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  294.0  2.0  0  0.00  58.   999.  2 NAD-SFC NoSubs
10  8  7 219 10  145.1 -9.000 -9.000 -9.000  495. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  296.0  2.0  0  0.00  53.   999.  2 NAD-SFC NoSubs
10  8  7 219 11  169.0 -9.000 -9.000 -9.000  618. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  298.2  2.0  0  0.00  47.   998.  2 NAD-SFC NoSubs
10  8  7 219 12  181.4 -9.000 -9.000 -9.000  742. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  299.9  2.0  0  0.00  41.   997.  2 NAD-SFC NoSubs
10  8  7 219 13  182.6  0.121  1.637  0.009  856.  101.     -1.0  0.2720  0.52  0.19  0.50  306.0  15.0  301.2  2.0  0  0.00  37.   997.  2 NAD-SFC NoSubs
10  8  7 219 14  172.7  0.120  1.666  0.010  952.   99.     -1.0  0.2720  0.52  0.19  0.50  307.0  15.0  302.2  2.0  0  0.00  35.   996.  2 NAD-SFC NoSubs
10  8  7 219 15  151.2  0.229  1.633  0.010 1024.  264.     -7.1  0.2720  0.52  0.19  1.50  324.0  15.0  302.8  2.0  0  0.00  33.   996.  2 NAD-SFC NoSubs
10  8  7 219 16  119.8  0.326  1.536  0.010 1077.  446.    -25.6  0.2720  0.52  0.20  2.60  306.0  15.0  303.0  2.0  0  0.00  33.   996.  3 NAD-SFC NoSubs
10  8  7 219 17   79.1  0.342  1.350  0.010 1108.  480.    -45.0  0.2160  0.52  0.22  3.10  288.0  15.0  302.0  2.0  0  0.00  43.   996.  3 NAD-SFC NoSubs
10  8  7 219 18   31.9  0.453  1.000  0.010 1115.  732.   -259.7  0.2160  0.52  0.30  4.60  291.0  15.0  299.6  2.0  0  0.00  53.   997.  3 NAD-SFC NoSubs
10  8  7 219 19  -35.4  0.471 -9.000 -9.000 -999.  775.    261.9  0.2160  0.52  0.56  5.10  286.0  15.0  296.2  2.0  0  0.00  61.   998.  2 NAD-SFC NoSubs
10  8  7 219 20  -49.1  0.467 -9.000 -9.000 -999.  767.    185.5  0.2160  0.52  1.00  5.10  286.0  15.0  293.6  2.0  0  0.00  69.   999.  2 NAD-SFC NoSubs
10  8  7 219 21  -39.3  0.372 -9.000 -9.000 -999.  552.    117.1  0.2160  0.52  1.00  4.10  288.0  15.0  292.0  2.0  0  0.00  73.   999.  2 NAD-SFC NoSubs
10  8  7 219 22  -33.6  0.325 -9.000 -9.000 -999.  447.     91.4  0.2160  0.52  1.00  3.60  291.0  15.0  291.0  2.0  0  0.00  75.  1000.  3 NAD-SFC NoSubs
10  8  7 219 23  -24.5  0.246 -9.000 -9.000 -999.  296.     54.2  0.2720  0.52  1.00  2.60  306.0  15.0  290.5  2.0  0  0.00  76.  1000.  3 NAD-SFC NoSubs
10  8  7 219 24  -16.3  0.200 -9.000 -9.000 -999.  215.     43.6  0.2930  0.52  1.00  2.10  356.0  15.0  290.1  2.0  0  0.00  76.  1000.  3 NAD-SFC NoSubs
10  8  8 220  1  -16.4  0.200 -9.000 -9.000 -999.  215.     43.6  0.2940  0.52  1.00  2.10   17.0  15.0  289.8  2.0  0  0.00  78.  1001.  3 NAD-SFC NoSubs
10  8  8 220  2  -15.1  0.190 -9.000 -9.000 -999.  199.     40.6  0.2470  0.52  1.00  2.10   40.0  15.0  289.4  2.0  0  0.00  80.  1001.  3 NAD-SFC NoSubs
10  8  8 220  3   -7.5  0.133 -9.000 -9.000 -999.  117.     28.0  0.2470  0.52  1.00  1.50   57.0  15.0  289.1  2.0  0  0.00  82.  1000.  3 NAD-SFC NoSubs
10  8  8 220  4   -7.0  0.128 -9.000 -9.000 -999.  110.     26.4  0.2090  0.52  1.00  1.50   74.0  15.0  288.9  2.0  0  0.00  83.  1000.  3 NAD-SFC NoSubs
10  8  8 220  5   -1.5  0.082 -9.000 -9.000 -999.   56.     31.5  0.2470  0.52  1.00  0.50   42.0  15.0  288.8  2.0  0  0.00  84.  1001.  3 NAD-SFC NoSubs
10  8  8 220  6   -1.4  0.078 -9.000 -9.000 -999.   52.     30.3  0.2470  0.52  0.62  0.50   47.0  15.0  288.5  2.0  0  0.00  86.  1001.  3 NAD-SFC NoSubs
10  8  8 220  7   21.3  0.178  0.428  0.008  131.  180.    -23.5  0.2160  0.52  0.32  1.50  276.0  15.0  290.1  2.0  0  0.00  78.  1002.  2 NAD-SFC NoSubs
10  8  8 220  8   68.6 -9.000 -9.000 -9.000  299. -999. -99999.0  0.2235  0.52  0.23  0.00    0.0  15.0  291.8  2.0  0  0.00  70.  1002.  2 NAD-SFC NoSubs
10  8  8 220  9  110.8 -9.000 -9.000 -9.000  457. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  293.6  2.0  0  0.00  64.  1002.  2 NAD-SFC NoSubs
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10  8  8 220 10   144.6 -9.000 -9.000 -9.000  590. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 295.8  2.0    0  0.00   55. 1002.     2 NAD-SFC NoSubs
10  8  8 220 11   168.4 -9.000 -9.000 -9.000  706. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 297.6  2.0    0  0.00   46. 1001.     2 NAD-SFC NoSubs
10  8  8 220 12   180.8 -9.000 -9.000 -9.000  804. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 299.2  2.0    0  0.00   39. 1000.     2 NAD-SFC NoSubs
10  8  8 220 13   181.9  0.115  1.657  0.010  892.   93.     -1.0 0.2160  0.52  0.19  0.50  288.0  15.0 300.5  2.0    0  0.00   36.  999.     2 NAD-SFC NoSubs
10  8  8 220 14   171.9  0.120  1.671  0.009  968.   99.     -1.0 0.2720  0.52  0.19  0.50  315.0  15.0 301.4  2.0    0  0.00   34.  999.     2 NAD-SFC NoSubs
10  8  8 220 15   150.5  0.229  1.636  0.009 1037.  263.     -7.1 0.2720  0.52  0.19  1.50  321.0  15.0 301.9  2.0    0  0.00   34.  998.     3 NAD-SFC NoSubs
10  8  8 220 16   118.6  0.331  1.535  0.009 1087.  457.    -27.2 0.2930  0.52  0.20  2.60  332.0  15.0 301.6  2.0    0  0.00   44.  998.     3 NAD-SFC NoSubs
10  8  8 220 17    78.1  0.314  1.349  0.009 1119.  422.    -35.2 0.2720  0.52  0.22  2.60  321.0  15.0 301.4  2.0    0  0.00   50.  998.     3 NAD-SFC NoSubs
10  8  8 220 18    31.5  0.409  0.999  0.009 1129.  627.   -193.6 0.2160  0.52  0.31  4.10  298.0  15.0 300.2  2.0    0  0.00   58.  999.     3 NAD-SFC NoSubs
10  8  8 220 19   -34.1  0.471 -9.000 -9.000 -999.  776.    273.4 0.2160  0.52  0.57  5.10  288.0  15.0 296.8  2.0    0  0.00   68. 1000.     3 NAD-SFC NoSubs
10  8  8 220 20   -42.9  0.420 -9.000 -9.000 -999.  656.    154.1 0.2160  0.52  1.00  4.60  280.0  15.0 294.4  2.0    0  0.00   73. 1000.     3 NAD-SFC NoSubs
10  8  8 220 21   -45.6  0.443 -9.000 -9.000 -999.  707.    170.4 0.1750  0.52  1.00  5.10  267.0  15.0 292.5  2.0    0  0.00   78. 1001.     3 NAD-SFC NoSubs
10  8  8 220 22   -43.4  0.420 -9.000 -9.000 -999.  654.    152.4 0.2160  0.52  1.00  4.60  271.0  15.0 291.2  2.0    0  0.00   81. 1001.     3 NAD-SFC NoSubs
10  8  8 220 23   -32.0  0.308 -9.000 -9.000 -999.  419.     81.8 0.1750  0.52  1.00  3.60  268.0  15.0 290.2  2.0    0  0.00   82. 1002.     3 NAD-SFC NoSubs
10  8  8 220 24   -22.1  0.231 -9.000 -9.000 -999.  269.     49.5 0.2160  0.52  1.00  2.60  278.0  15.0 289.8  2.0    0  0.00   84. 1002.     3 NAD-SFC NoSubs
10  8  9 221  1   -14.2  0.183 -9.000 -9.000 -999.  189.     38.6 0.2160  0.52  1.00  2.10  297.0  15.0 289.4  2.0    0  0.00   84. 1002.     3 NAD-SFC NoSubs
10  8  9 221  2    -8.2  0.140 -9.000 -9.000 -999.  126.     29.8 0.2930  0.52  1.00  1.50  342.0  15.0 289.0  2.0    0  0.00   84. 1002.     3 NAD-SFC NoSubs
10  8  9 221  3   -16.4  0.200 -9.000 -9.000 -999.  214.     43.5 0.2930  0.52  1.00  2.10  345.0  15.0 288.8  2.0    0  0.00   85. 1002.     3 NAD-SFC NoSubs
10  8  9 221  4   -15.8  0.195 -9.000 -9.000 -999.  207.     42.1 0.2720  0.52  1.00  2.10  321.0  15.0 288.4  2.0    0  0.00   86. 1002.     3 NAD-SFC NoSubs
10  8  9 221  5   -15.8  0.195 -9.000 -9.000 -999.  207.     42.1 0.2720  0.52  1.00  2.10  308.0  15.0 288.2  2.0    0  0.00   86. 1002.     3 NAD-SFC NoSubs
10  8  9 221  6    -7.5  0.137 -9.000 -9.000 -999.  122.     30.6 0.2720  0.52  0.63  1.50  324.0  15.0 288.0  2.0    0  0.00   87. 1002.     3 NAD-SFC NoSubs
10  8  9 221  7    22.0  0.241  0.414  0.008  115.  285.    -57.3 0.2720  0.52  0.32  2.10  313.0  15.0 289.8  2.0    0  0.00   80. 1003.     3 NAD-SFC NoSubs
10  8  9 221  8    68.0  0.105  0.796  0.008  265.   96.     -1.5 0.2720  0.52  0.23  0.50  324.0  15.0 291.2  2.0    0  0.00   74. 1003.     2 NAD-SFC NoSubs
10  8  9 221  9   110.2 -9.000 -9.000 -9.000  431. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 293.0  2.0    0  0.00   70. 1002.     2 NAD-SFC NoSubs
10  8  9 221 10   144.0 -9.000 -9.000 -9.000  582. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 295.1  2.0    0  0.00   62. 1002.     2 NAD-SFC NoSubs
10  8  9 221 11   167.9 -9.000 -9.000 -9.000  714. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 297.2  2.0    0  0.00   53. 1001.     2 NAD-SFC NoSubs
10  8  9 221 12   180.4 -9.000 -9.000 -9.000  827. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 299.2  2.0    0  0.00   45. 1000.     2 NAD-SFC NoSubs
10  8  9 221 13   181.7  0.120  1.677  0.012  928.  100.     -1.0 0.2720  0.52  0.19  0.50  323.0  15.0 300.8  2.0    0  0.00   38. 1000.     2 NAD-SFC NoSubs
10  8  9 221 14   171.7  0.120  1.690  0.011 1003.   99.     -1.0 0.2720  0.52  0.19  0.50  311.0  15.0 301.9  2.0    0  0.00   34.  999.     2 NAD-SFC NoSubs
10  8  9 221 15   150.2  0.180  1.644  0.011 1054.  184.     -3.5 0.2930  0.52  0.19  1.00  335.0  15.0 302.5  2.0    0  0.00   32.  998.     2 NAD-SFC NoSubs
10  8  9 221 16   118.2  0.227  1.536  0.010 1092.  259.     -8.8 0.2930  0.52  0.20  1.50  354.0  15.0 302.8  2.0    0  0.00   32.  998.     2 NAD-SFC NoSubs
10  8  9 221 17    77.2 -9.000 -9.000 -9.000 1116. -999. -99999.0 0.2235  0.52  0.23  0.00    0.0  15.0 302.4  2.0    0  0.00   38.  998.     2 NAD-SFC NoSubs
10  8  9 221 18    30.2  0.344  0.984  0.010 1124.  484.    -119.7 0.2940  0.52  0.31  3.10    7.0  15.0 301.6  2.0    0  0.00   47.  998.     2 NAD-SFC NoSubs
10  8  9 221 19   -25.2  0.358 -9.000 -9.000 -999.  513.    161.7 0.2940  0.52  0.58  3.60    3.0  15.0 300.5  2.0    0  0.00   51.  998.     3 NAD-SFC NoSubs
10  8  9 221 20   -47.2  0.468 -9.000 -9.000 -999.  768.    193.2 0.2160  0.52  1.00  5.10  277.0  15.0 297.6  2.0    0  0.00   61.  999.     3 NAD-SFC NoSubs
10  8  9 221 21   -45.3  0.443 -9.000 -9.000 -999.  709.    171.1 0.1750  0.52  1.00  5.10  269.0  15.0 293.8  2.0    0  0.00   72.  999.     3 NAD-SFC NoSubs
10  8  9 221 22   -43.2  0.420 -9.000 -9.000 -999.  654.    153.0 0.2160  0.52  1.00  4.60  272.0  15.0 292.4  2.0    0  0.00   74. 1000.     3 NAD-SFC NoSubs
10  8  9 221 23   -33.6  0.325 -9.000 -9.000 -999.  451.     91.5 0.2160  0.52  1.00  3.60  274.0  15.0 291.4  2.0    0  0.00   77. 1000.     3 NAD-SFC NoSubs
10  8  9 221 24   -22.1  0.231 -9.000 -9.000 -999.  271.     49.6 0.2160  0.52  1.00  2.60  288.0  15.0 290.8  2.0    0  0.00   78. 1000.     3 NAD-SFC NoSubs
10  8 10 222  1    -7.9  0.137 -9.000 -9.000 -999.  125.     29.0 0.2720  0.52  1.00  1.50  305.0  15.0 290.4  2.0    0  0.00   79. 1000.     3 NAD-SFC NoSubs
10  8 10 222  2    -4.0  0.102 -9.000 -9.000 -999.   78.     23.7 0.2930  0.52  1.00  1.00  332.0  15.0 290.0  2.0    0  0.00   80. 1001.     3 NAD-SFC NoSubs
10  8 10 222  3    -1.6  0.083 -9.000 -9.000 -999.   58.     31.8 0.2930  0.52  1.00  0.50  347.0  15.0 289.8  2.0    0  0.00   80. 1001.     3 NAD-SFC NoSubs
10  8 10 222  4    -1.5  0.082 -9.000 -9.000 -999.   56.     31.5 0.2470  0.52  1.00  0.50   33.0  15.0 289.2  2.0    0  0.00   81. 1001.     3 NAD-SFC NoSubs
10  8 10 222  5    -1.5  0.082 -9.000 -9.000 -999.   56.     31.5 0.2470  0.52  1.00  0.50   50.0  15.0 289.0  2.0    0  0.00   82. 1001.     3 NAD-SFC NoSubs
10  8 10 222  6    -1.4  0.078 -9.000 -9.000 -999.   53.     30.5 0.2470  0.52  0.63  0.50   38.0  15.0 288.8  2.0    0  0.00   83. 1001.     3 NAD-SFC NoSubs
10  8 10 222  7    21.6  0.141  0.415  0.009  118.  127.    -11.6 0.2720  0.52  0.33  1.00  322.0  15.0 290.2  2.0    0  0.00   72. 1002.     3 NAD-SFC NoSubs
10  8 10 222  8    67.8 -9.000 -9.000 -9.000  237. -999. -99999.0 0.2235  0.52  0.23  0.00    0.0  15.0 292.1  2.0    0  0.00   67. 1002.     2 NAD-SFC NoSubs
10  8 10 222  9   110.1 -9.000 -9.000 -9.000  391. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 293.9  2.0    0  0.00   63. 1001.     2 NAD-SFC NoSubs
10  8 10 222 10   144.0 -9.000 -9.000 -9.000  573. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 296.0  2.0    0  0.00   60. 1001.     2 NAD-SFC NoSubs
10  8 10 222 11   167.8 -9.000 -9.000 -9.000  728. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 298.1  2.0    0  0.00   52. 1000.     2 NAD-SFC NoSubs
10  8 10 222 12   180.3 -9.000 -9.000 -9.000  861. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 299.8  2.0    0  0.00   43. 1000.     2 NAD-SFC NoSubs
10  8 10 222 13   181.5 -9.000 -9.000 -9.000  976. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 301.2  2.0    0  0.00   37.  999.     2 NAD-SFC NoSubs
10  8 10 222 14   171.4  0.120  1.713  0.010 1046.   99.     -1.0 0.2720  0.52  0.19  0.50  310.0  15.0 302.1  2.0    0  0.00   34.  999.     2 NAD-SFC NoSubs
10  8 10 222 15   149.8  0.180  1.668  0.009 1104.  184.     -3.5 0.2930  0.52  0.19  1.00  338.0  15.0 302.8  2.0    0  0.00   32.  998.     2 NAD-SFC NoSubs
10  8 10 222 16   117.8  0.226  1.559  0.009 1147.  259.     -8.8 0.2930  0.52  0.20  1.50  353.0  15.0 303.1  2.0    0  0.00   33.  998.     2 NAD-SFC NoSubs
10  8 10 222 17    77.5  0.273  1.367  0.009 1174.  343.    -23.4 0.2940  0.52  0.23  2.10    2.0  15.0 302.8  2.0    0  0.00   40.  998.     3 NAD-SFC NoSubs
10  8 10 222 18    30.9  0.338  1.009  0.009 1183.  472.   -111.3 0.2720  0.52  0.31  3.10  321.0  15.0 302.1  2.0    0  0.00   46.  999.     3 NAD-SFC NoSubs
10  8 10 222 19   -35.6  0.471 -9.000 -9.000 -999.  775.    261.1 0.2160  0.52  0.58  5.10  294.0  15.0 298.4  2.0    0  0.00   57. 1000.     3 NAD-SFC NoSubs
10  8 10 222 20   -53.6  0.525 -9.000 -9.000 -999.  913.    241.2 0.2160  0.52  1.00  5.70  273.0  15.0 294.8  2.0    0  0.00   66. 1000.     3 NAD-SFC NoSubs
10  8 10 222 21   -45.5  0.443 -9.000 -9.000 -999.  714.    170.5 0.1750  0.52  1.00  5.10  268.0  15.0 292.8  2.0    0  0.00   71. 1001.     3 NAD-SFC NoSubs
10  8 10 222 22   -38.5  0.373 -9.000 -9.000 -999.  550.    120.1 0.2160  0.52  1.00  4.10  271.0  15.0 291.5  2.0    0  0.00   74. 1001.     3 NAD-SFC NoSubs
10  8 10 222 23   -22.1  0.231 -9.000 -9.000 -999.  280.     49.6 0.2160  0.52  1.00  2.60  291.0  15.0 290.6  2.0    0  0.00   77. 1002.     3 NAD-SFC NoSubs
10  8 10 222 24   -15.8  0.195 -9.000 -9.000 -999.  208.     42.3 0.2720  0.52  1.00  2.10  328.0  15.0 290.0  2.0    0  0.00   78. 1002.     3 NAD-SFC NoSubs
10  8 11 223  1   -25.6  0.252 -9.000 -9.000 -999.  303.     55.7 0.2930  0.52  1.00  2.60  334.0  15.0 289.2  2.0    0  0.00   79. 1002.     3 NAD-SFC NoSubs
10  8 11 223  2   -24.7  0.246 -9.000 -9.000 -999.  293.     54.0 0.2720  0.52  1.00  2.60  318.0  15.0 288.5  2.0    0  0.00   81. 1002.     3 NAD-SFC NoSubs
10  8 11 223  3   -31.0  0.297 -9.000 -9.000 -999.  387.     75.1 0.2720  0.52  1.00  3.10  312.0  15.0 287.9  2.0    0  0.00   82. 1002.     3 NAD-SFC NoSubs
10  8 11 223  4   -24.7  0.246 -9.000 -9.000 -999.  294.     53.9 0.2720  0.52  1.00  2.60  311.0  15.0 287.6  2.0    0  0.00   81. 1002.     3 NAD-SFC NoSubs
10  8 11 223  5   -24.7  0.246 -9.000 -9.000 -999.  293.     53.8 0.2720  0.52  1.00  2.60  313.0  15.0 287.2  2.0    0  0.00   81. 1002.     3 NAD-SFC NoSubs
10  8 11 223  6   -15.3  0.196 -9.000 -9.000 -999.  209.     44.2 0.2720  0.52  0.64  2.10  317.0  15.0 287.2  2.0    0  0.00   81. 1003.     3 NAD-SFC NoSubs
10  8 11 223  7    20.7  0.186  0.415  0.009  123.  193.    -27.9 0.2720  0.52  0.33  1.50  325.0  15.0 288.6  2.0    0  0.00   74. 1003.     3 NAD-SFC NoSubs
10  8 11 223  8    67.6 -9.000 -9.000 -9.000  259. -999. -99999.0 0.2235  0.52  0.23  0.00    0.0  15.0 290.2  2.0    0  0.00   69. 1003.     3 NAD-SFC NoSubs
10  8 11 223  9   109.5 -9.000 -9.000 -9.000  412. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 292.0  2.0    0  0.00   65. 1003.     3 NAD-SFC NoSubs
10  8 11 223 10   143.0 -9.000 -9.000 -9.000  560. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 293.9  2.0    0  0.00   61. 1003.     3 NAD-SFC NoSubs
10  8 11 223 11   166.5 -9.000 -9.000 -9.000  690. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 295.8  2.0    0  0.00   56. 1002.     3 NAD-SFC NoSubs
10  8 11 223 12   178.9 -9.000 -9.000 -9.000  794. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 297.4  2.0    0  0.00   52. 1001.     2 NAD-SFC NoSubs
10  8 11 223 13   180.1  0.120  1.648  0.010  888.  100.     -1.0 0.2720  0.52  0.19  0.50  317.0  15.0 298.9  2.0    0  0.00   47. 1000.     2 NAD-SFC NoSubs
10  8 11 223 14   169.9  0.183  1.664  0.009  968.  188.     -3.2 0.2930  0.52  0.19  1.00  344.0  15.0 299.9  2.0    0  0.00   44. 1000.     2 NAD-SFC NoSubs
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10	8	11	223	15	148.3	0.232	1.626	0.009	1035.	269.	-7.6	0.2930	0.52	0.19	1.50	359.0	15.0	300.6	2.0	0	0.00	42.	999.	2	NAD-SFC	NoSubs
10	8	11	223	16	116.0	0.284	1.522	0.009	1084.	364.	-17.6	0.2940	0.52	0.20	2.10	6.0	15.0	300.8	2.0	0	0.00	41.	999.	2	NAD-SFC	NoSubs
10	8	11	223	17	75.0	0.319	1.328	0.009	1114.	431.	-38.4	0.2940	0.52	0.23	2.60	8.0	15.0	300.6	2.0	0	0.00	44.	999.	2	NAD-SFC	NoSubs
10	8	11	223	18	28.0	0.342	0.959	0.009	1123.	480.	-127.8	0.2940	0.52	0.31	3.10	19.0	15.0	300.0	2.0	0	0.00	53.	999.	2	NAD-SFC	NoSubs
10	8	11	223	19	-29.3	0.357	-9.000	-9.000	-999.	511.	137.9	0.2940	0.52	0.59	3.60	6.0	15.0	298.9	2.0	0	0.00	56.	999.	2	NAD-SFC	NoSubs
10	8	11	223	20	-35.1	0.347	-9.000	-9.000	-999.	491.	106.3	0.2720	0.52	1.00	3.60	319.0	15.0	297.5	2.0	0	0.00	58.	1000.	3	NAD-SFC	NoSubs
10	8	11	223	21	-47.8	0.468	-9.000	-9.000	-999.	767.	190.9	0.2160	0.52	1.00	5.10	281.0	15.0	294.2	2.0	0	0.00	67.	1000.	3	NAD-SFC	NoSubs
10	8	11	223	22	-38.3	0.373	-9.000	-9.000	-999.	553.	120.4	0.2160	0.52	1.00	4.10	278.0	15.0	292.2	2.0	0	0.00	73.	1000.	3	NAD-SFC	NoSubs
10	8	11	223	23	-33.6	0.325	-9.000	-9.000	-999.	447.	91.6	0.2160	0.52	1.00	3.60	286.0	15.0	291.5	2.0	0	0.00	76.	1000.	3	NAD-SFC	NoSubs
10	8	11	223	24	-30.6	0.297	-9.000	-9.000	-999.	388.	76.0	0.2720	0.52	1.00	3.10	313.0	15.0	291.1	2.0	0	0.00	77.	1000.	3	NAD-SFC	NoSubs
10	8	12	224	1	-31.4	0.303	-9.000	-9.000	-999.	401.	79.3	0.2930	0.52	1.00	3.10	333.0	15.0	290.8	2.0	0	0.00	80.	1001.	3	NAD-SFC	NoSubs
10	8	12	224	2	-25.5	0.252	-9.000	-9.000	-999.	304.	55.8	0.2930	0.52	1.00	2.60	338.0	15.0	290.1	2.0	0	0.00	84.	1001.	3	NAD-SFC	NoSubs
10	8	12	224	3	-25.5	0.252	-9.000	-9.000	-999.	303.	55.7	0.2930	0.52	1.00	2.60	337.0	15.0	289.5	2.0	0	0.00	87.	1001.	3	NAD-SFC	NoSubs
10	8	12	224	4	-16.4	0.200	-9.000	-9.000	-999.	215.	43.5	0.2930	0.52	1.00	2.10	339.0	15.0	288.9	2.0	0	0.00	89.	1001.	3	NAD-SFC	NoSubs
10	8	12	224	5	-7.9	0.137	-9.000	-9.000	-999.	122.	28.9	0.2720	0.52	1.00	1.50	327.0	15.0	288.4	2.0	0	0.00	91.	1002.	3	NAD-SFC	NoSubs
10	8	12	224	6	-3.7	0.099	-9.000	-9.000	-999.	74.	23.4	0.2720	0.52	0.65	1.00	326.0	15.0	287.9	2.0	0	0.00	93.	1002.	3	NAD-SFC	NoSubs
10	8	12	224	7	18.9	0.243	0.454	0.008	177.	287.	-67.6	0.2930	0.52	0.33	2.10	349.0	15.0	288.8	2.0	0	0.00	86.	1002.	2	NAD-SFC	NoSubs
10	8	12	224	8	66.3	-9.000	-9.000	-9.000	312.	-999.	-99999.0	0.2235	0.52	0.23	0.00	0.0	15.0	290.2	2.0	0	0.00	80.	1002.	2	NAD-SFC	NoSubs
10	8	12	224	9	108.6	-9.000	-9.000	-9.000	460.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	291.9	2.0	0	0.00	73.	1002.	2	NAD-SFC	NoSubs
10	8	12	224	10	142.4	-9.000	-9.000	-9.000	622.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	293.8	2.0	0	0.00	66.	1001.	2	NAD-SFC	NoSubs
10	8	12	224	11	166.2	-9.000	-9.000	-9.000	759.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.8	2.0	0	0.00	59.	1001.	2	NAD-SFC	NoSubs
10	8	12	224	12	178.5	-9.000	-9.000	-9.000	882.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.4	2.0	0	0.00	52.	999.	2	NAD-SFC	NoSubs
10	8	12	224	13	179.6	-9.000	-9.000	-9.000	984.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.8	2.0	0	0.00	47.	999.	2	NAD-SFC	NoSubs
10	8	12	224	14	169.4	0.121	1.707	0.012	1047.	101.	-1.0	0.2930	0.52	0.19	0.50	339.0	15.0	299.8	2.0	0	0.00	44.	998.	2	NAD-SFC	NoSubs
10	8	12	224	15	147.7	0.180	1.658	0.012	1099.	184.	-3.5	0.2930	0.52	0.19	1.00	356.0	15.0	300.5	2.0	0	0.00	42.	997.	2	NAD-SFC	NoSubs
10	8	12	224	16	115.4	0.226	1.545	0.012	1137.	258.	-8.9	0.2940	0.52	0.20	1.50	6.0	15.0	300.8	2.0	0	0.00	41.	997.	2	NAD-SFC	NoSubs
10	8	12	224	17	74.3	0.318	1.343	0.012	1161.	431.	-38.6	0.2940	0.52	0.23	2.60	18.0	15.0	300.8	2.0	0	0.00	43.	997.	2	NAD-SFC	NoSubs
10	8	12	224	18	27.2	0.284	0.964	0.012	1168.	364.	-74.9	0.2470	0.52	0.32	2.60	32.0	15.0	300.1	2.0	0	0.00	51.	997.	2	NAD-SFC	NoSubs
10	8	12	224	19	-23.2	0.290	-9.000	-9.000	-999.	375.	93.9	0.2470	0.52	0.60	3.10	36.0	15.0	299.0	2.0	0	0.00	54.	997.	3	NAD-SFC	NoSubs
10	8	12	224	20	-16.1	0.200	-9.000	-9.000	-999.	219.	44.3	0.2940	0.52	1.00	2.10	19.0	15.0	297.8	2.0	0	0.00	58.	997.	3	NAD-SFC	NoSubs
10	8	12	224	21	-33.0	0.326	-9.000	-9.000	-999.	446.	93.0	0.2160	0.52	1.00	3.60	285.0	15.0	296.0	2.0	0	0.00	65.	998.	3	NAD-SFC	NoSubs
10	8	12	224	22	-43.1	0.420	-9.000	-9.000	-999.	653.	153.2	0.2160	0.52	1.00	4.60	282.0	15.0	292.8	2.0	0	0.00	76.	998.	3	NAD-SFC	NoSubs
10	8	12	224	23	-33.5	0.325	-9.000	-9.000	-999.	451.	91.6	0.2160	0.52	1.00	3.60	281.0	15.0	291.5	2.0	0	0.00	78.	998.	3	NAD-SFC	NoSubs
10	8	12	224	24	-22.3	0.230	-9.000	-9.000	-999.	270.	48.9	0.2160	0.52	1.00	2.60	282.0	15.0	291.0	2.0	0	0.00	79.	998.	2	NAD-SFC	NoSubs
10	8	13	225	1	-22.3	0.230	-9.000	-9.000	-999.	266.	48.9	0.2160	0.52	1.00	2.60	292.0	15.0	290.8	2.0	0	0.00	80.	998.	2	NAD-SFC	NoSubs
10	8	13	225	2	-31.4	0.296	-9.000	-9.000	-999.	387.	73.7	0.2720	0.52	1.00	3.10	305.0	15.0	290.2	2.0	0	0.00	81.	998.	2	NAD-SFC	NoSubs
10	8	13	225	3	-24.8	0.246	-9.000	-9.000	-999.	294.	53.4	0.2720	0.52	1.00	2.60	313.0	15.0	290.0	2.0	0	0.00	83.	999.	2	NAD-SFC	NoSubs
10	8	13	225	4	-24.9	0.246	-9.000	-9.000	-999.	293.	53.3	0.2720	0.52	1.00	2.60	325.0	15.0	289.6	2.0	0	0.00	86.	999.	2	NAD-SFC	NoSubs
10	8	13	225	5	-15.9	0.195	-9.000	-9.000	-999.	208.	41.6	0.2720	0.52	1.00	2.10	319.0	15.0	289.2	2.0	0	0.00	89.	999.	2	NAD-SFC	NoSubs
10	8	13	225	6	-7.6	0.137	-9.000	-9.000	-999.	122.	30.0	0.2720	0.52	0.65	1.50	323.0	15.0	288.8	2.0	0	0.00	92.	1000.	3	NAD-SFC	NoSubs
10	8	13	225	7	18.6	0.187	0.405	0.009	126.	195.	-31.5	0.2930	0.52	0.33	1.50	356.0	15.0	289.8	2.0	0	0.00	87.	1000.	2	NAD-SFC	NoSubs
10	8	13	225	8	66.2	0.107	0.794	0.009	269.	86.	-1.6	0.2930	0.52	0.23	0.50	356.0	15.0	291.6	2.0	0	0.00	78.	1000.	2	NAD-SFC	NoSubs
10	8	13	225	9	108.6	-9.000	-9.000	-9.000	411.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	293.2	2.0	0	0.00	71.	1000.	2	NAD-SFC	NoSubs
10	8	13	225	10	142.5	-9.000	-9.000	-9.000	558.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.2	2.0	0	0.00	65.	999.	2	NAD-SFC	NoSubs
10	8	13	225	11	166.3	-9.000	-9.000	-9.000	699.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.1	2.0	0	0.00	59.	999.	2	NAD-SFC	NoSubs
10	8	13	225	12	178.8	-9.000	-9.000	-9.000	842.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.9	2.0	0	0.00	52.	998.	2	NAD-SFC	NoSubs
10	8	13	225	13	179.9	-9.000	-9.000	-9.000	965.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.5	2.0	0	0.00	47.	997.	2	NAD-SFC	NoSubs
10	8	13	225	14	169.8	-9.000	-9.000	-9.000	1027.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.8	2.0	0	0.00	42.	996.	2	NAD-SFC	NoSubs
10	8	13	225	15	148.1	0.181	1.648	0.013	1075.	184.	-3.5	0.2930	0.52	0.19	1.00	352.0	15.0	302.5	2.0	0	0.00	39.	996.	2	NAD-SFC	NoSubs
10	8	13	225	16	116.1	-9.000	-9.000	-9.000	1112.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	303.4	2.0	0	0.00	40.	995.	2	NAD-SFC	NoSubs
10	8	13	225	17	74.8	0.272	1.336	0.013	1134.	341.	-24.0	0.2940	0.52	0.23	2.10	8.0	15.0	303.1	2.0	0	0.00	45.	995.	2	NAD-SFC	NoSubs
10	8	13	225	18	28.9	0.343	0.975	0.013	1141.	482.	-124.0	0.2940	0.52	0.32	3.10	24.0	15.0	302.6	2.0	0	0.00	51.	996.	3	NAD-SFC	NoSubs
10	8	13	225	19	-27.8	0.349	-9.000	-9.000	-999.	494.	135.5	0.2720	0.52	0.61	3.60	308.0	15.0	301.5	2.0	0	0.00	54.	996.	3	NAD-SFC	NoSubs
10	8	13	225	20	-54.9	0.543	-9.000	-9.000	-999.	961.	259.8	0.1750	0.52	1.00	6.20	267.0	15.0	296.8	2.0	0	0.00	68.	997.	3	NAD-SFC	NoSubs
10	8	13	225	21	-53.6	0.525	-9.000	-9.000	-999.	914.	240.3	0.2160	0.52	1.00	5.70	273.0	15.0	293.8	2.0	0	0.00	71.	998.	3	NAD-SFC	NoSubs
10	8	13	225	22	-43.1	0.420	-9.000	-9.000	-999.	663.	153.2	0.2160	0.52	1.00	4.60	270.0	15.0	292.6	2.0	0	0.00	74.	998.	3	NAD-SFC	NoSubs
10	8	13	225	23	-38.4	0.373	-9.000	-9.000	-999.	548.	120.1	0.2160	0.52	1.00	4.10	279.0	15.0	291.6	2.0	0	0.00	76.	999.	3	NAD-SFC	NoSubs
10	8	13	225	24	-27.7	0.278	-9.000	-9.000	-999.	358.	69.4	0.2160	0.52	1.00	3.10	293.0	15.0	290.8	2.0	0	0.00	78.	999.	4	NAD-SFC	NoSubs
10	8	14	226	1	-15.5	0.196	-9.000	-9.000	-999.	211.	43.2	0.2720	0.52	1.00	2.10	321.0	15.0	290.2	2.0	0	0.00	78.	999.	4	NAD-SFC	NoSubs
10	8	14	226	2	-16.1	0.200	-9.000	-9.000	-999.	215.	44.5	0.2930	0.52	1.00	2.10	335.0	15.0	290.0	2.0	0	0.00	78.	1000.	4	NAD-SFC	NoSubs
10	8	14	226	3	-15.8	0.195	-9.000	-9.000	-999.	207.	42.3	0.2720	0.52	1.00	2.10	326.0	15.0	289.8	2.0	0	0.00	77.	1000.	3	NAD-SFC	NoSubs
10	8	14	226	4	-15.8	0.195	-9.000	-9.000	-999.	207.	42.2	0.2720	0.52	1.00	2.10	328.0	15.0	289.5	2.0	0	0.00	77.	1000.	3	NAD-SFC	NoSubs
10	8	14	226	5	-15.8	0.195	-9.000	-9.000	-999.	207.	42.2	0.2720	0.52	1.00	2.10	326.0	15.0	289.2	2.0	0	0.00	78.	1000.	3	NAD-SFC	NoSubs
10	8	14	226	6	-15.9	0.200	-9.000	-9.000	-999.	215.	45.1	0.2930	0.52	0.66	2.10	336.0	15.0	289.0	2.0	0	0.00	79.	1001.	3	NAD-SFC	NoSubs
10	8	14	226	7	18.2	0.242	0.424	0.008	149.	286.	-69.6	0.2930	0.52	0.33	2.10	350.0	15.0	289.9	2.0	0	0.00	75.	1001.	2	NAD-SFC	NoSubs
10	8	14	226	8	65.7	0.107	0.836	0.008	317.	97.	-1.6	0.2930	0.52	0.23	0.50	352.0	15.0	291.4	2.0	0	0.00	71.	1001.	2	NAD-SFC	NoSubs
10	8	14	226	9	108.1	-9.000	-9.000	-9.000	469.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	293.0	2.0	0	0.00	67.	1001.	2	NAD-SFC	NoSubs
10	8	14	226	10	142.1	-9.000	-9.000	-9.000	608.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.0	2.0	0	0.00	63.	1000.	2	NAD-SFC	NoSubs
10	8	14	226	11	165.8	-9.000	-9.000	-9.000	726.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.9	2.0	0	0.00	58.	1000.	2	NAD-SFC	NoSubs
10	8	14	226	12	178.2	-9.000	-9.000	-9.000	829.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.5	2.0	0	0.00	54.	999.	2	NAD-SFC	NoSubs
10	8	14	226	13	179.2	-9.000	-9.000	-9.000	922.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.9	2.0	0	0.00	51.	998.	2	NAD-SFC	NoSubs
10	8	14	226	14	169.1	0.121	1.676	0.014	993.	101.	-1.0	0.2930	0.52	0.19	0.50	348.0	15.0	301.2	2.0	0	0.00	47.	998.	2	NAD-SFC	NoSubs
10	8	14	226	15	147.3	0.180	1.625	0.014	1038.	184.	-3.5	0.2930	0.52	0.19	1.00	352.0	15.0	302.0	2.0	0	0.00	45.	997.	2	NAD-SFC	NoSubs
10	8	14	226	16	115.0	-9.000	-9.000	-9.000	1071.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	302.4	2.0	0	0.00	44.	997.	2	NAD-SFC	NoSubs
10	8	14	226	17	73.6	0.318	1.312	0.015	1092.	430.	-38.9	0.2940	0.52	0.23	2.60	17.0	15.0	302.2	2.0	0	0.00	47.	997.	2	NAD-SFC	NoSubs
10	8	14	226	18	26.4	0.284	0.934	0.015	1098.	363.	-76.9	0.2470	0.52	0.32	2.60	35.0	15.0	301.8	2.0	0	0.00	54.	998.	2	NAD-SFC	NoSubs
10	8	14	226	19	-22.1	0.253	-9.000	-9.000	-999.	306.	65.6	0.2940	0.52	0.62	2.60	16.0	15.0	300.8	2.0	0	0.00	57.	998.	2	NAD-SFC	NoSubs

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10  8 14 226 20  -43.4  0.420 -9.000 -9.000 -999.  653.    152.2  0.2160  0.52  1.00   4.60  292.0  15.0  298.5   2.0    0   0.00   61.   999.     2 NAD-SFC NoSubs
10  8 14 226 21  -49.0  0.467 -9.000 -9.000 -999.  766.    185.7  0.2160  0.52  1.00   5.10  283.0  15.0  294.0   2.0    0   0.00   65.  1000.     2 NAD-SFC NoSubs
10  8 14 226 22  -44.3  0.420 -9.000 -9.000 -999.  655.    148.9  0.2160  0.52  1.00   4.60  278.0  15.0  292.2   2.0    0   0.00   67.  1000.     2 NAD-SFC NoSubs
10  8 14 226 23  -39.5  0.372 -9.000 -9.000 -999.  547.    116.8  0.2160  0.52  1.00   4.10  293.0  15.0  291.2   2.0    0   0.00   71.  1001.     2 NAD-SFC NoSubs
10  8 14 226 24  -31.5  0.296 -9.000 -9.000 -999.  391.     73.8  0.2720  0.52  1.00   3.10  315.0  15.0  290.8   2.0    0   0.00   73.  1001.     2 NAD-SFC NoSubs
10  8 15 227  1  -25.8  0.251 -9.000 -9.000 -999.  304.     55.0  0.2930  0.52  1.00   2.60  337.0  15.0  290.6   2.0    0   0.00   73.  1001.     2 NAD-SFC NoSubs
10  8 15 227  2  -16.6  0.200 -9.000 -9.000 -999.  215.     43.0  0.2930  0.52  1.00   2.10  357.0  15.0  290.5   2.0    0   0.00   75.  1002.     2 NAD-SFC NoSubs
10  8 15 227  3   -8.3  0.140 -9.000 -9.000 -999.  126.     29.5  0.2940  0.52  1.00   1.50    6.0  15.0  290.0   2.0    0   0.00   79.  1002.     2 NAD-SFC NoSubs
10  8 15 227  4   -4.1  0.102 -9.000 -9.000 -999.   79.     23.7  0.2940  0.52  1.00   1.00   25.0  15.0  289.4   2.0    0   0.00   83.  1002.     2 NAD-SFC NoSubs
10  8 15 227  5   -1.7  0.084 -9.000 -9.000 -999.   59.     32.1  0.2940  0.52  1.00   0.50   22.0  15.0  288.8   2.0    0   0.00   87.  1003.     2 NAD-SFC NoSubs
10  8 15 227  6    7.8 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.67   0.00    0.0  15.0  288.2   2.0    0   0.00   89.  1003.     2 NAD-SFC NoSubs
10  8 15 227  7   17.3  0.140  0.473  0.012  218.  125.    -14.1  0.2940  0.52  0.34   1.00    7.0  15.0  288.8   2.0    0   0.00   81.  1003.     2 NAD-SFC NoSubs
10  8 15 227  8   65.0 -9.000 -9.000 -9.000  276. -999. -99999.0  0.2235  0.52  0.23   0.00    0.0  15.0  290.5   2.0    0   0.00   73.  1003.     2 NAD-SFC NoSubs
10  8 15 227  9  107.5 -9.000 -9.000 -9.000  353. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  292.6   2.0    0   0.00   64.  1003.     2 NAD-SFC NoSubs
10  8 15 227 10  141.5 -9.000 -9.000 -9.000  476. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  294.6   2.0    0   0.00   58.  1002.     2 NAD-SFC NoSubs
10  8 15 227 11  165.4 -9.000 -9.000 -9.000  617. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  296.8   2.0    0   0.00   51.  1001.     2 NAD-SFC NoSubs
10  8 15 227 12  177.8  0.122  1.558  0.013  759.  102.    -1.0  0.2930  0.52  0.19   0.50  333.0  15.0  298.5   2.0    0   0.00   47.  1000.     2 NAD-SFC NoSubs
10  8 15 227 13  178.8  0.184  1.645  0.015  888.  190.    -3.1  0.2930  0.52  0.19   1.00  343.0  15.0  299.9   2.0    0   0.00   45.   999.     2 NAD-SFC NoSubs
10  8 15 227 14  168.4  0.236  1.667  0.017  982.  276.    -7.0  0.2930  0.52  0.19   1.50  347.0  15.0  300.9   2.0    0   0.00   43.   999.     2 NAD-SFC NoSubs
10  8 15 227 15  146.5  0.291  1.613  0.016 1021.  376.   -14.9  0.2930  0.52  0.19   2.10  355.0  15.0  301.6   2.0    0   0.00   42.   998.     2 NAD-SFC NoSubs
10  8 15 227 16  114.0  0.330  1.498  0.016 1050.  454.   -28.0  0.2930  0.52  0.20   2.60  352.0  15.0  301.9   2.0    0   0.00   42.   998.     2 NAD-SFC NoSubs
10  8 15 227 17   72.6  0.317  1.296  0.016 1068.  429.   -39.2  0.2930  0.52  0.23   2.60  346.0  15.0  301.8   2.0    0   0.00   47.   998.     2 NAD-SFC NoSubs
10  8 15 227 18   25.3  0.294  0.914  0.016 1073.  383.   -89.2  0.2930  0.52  0.32   2.60  352.0  15.0  301.2   2.0    0   0.00   51.   998.     2 NAD-SFC NoSubs
10  8 15 227 19  -22.7  0.253 -9.000 -9.000 -999.  306.    63.4  0.2930  0.52  0.63   2.60  355.0  15.0  300.0   2.0    0   0.00   54.   998.     2 NAD-SFC NoSubs
10  8 15 227 20  -25.4  0.252 -9.000 -9.000 -999.  303.    55.9  0.2930  0.52  1.00   2.60  344.0  15.0  298.8   2.0    0   0.00   58.   999.     2 NAD-SFC NoSubs
10  8 15 227 21  -15.7  0.195 -9.000 -9.000 -999.  208.    42.3  0.2720  0.52  1.00   2.10  326.0  15.0  297.6   2.0    0   0.00   61.   999.     2 NAD-SFC NoSubs
10  8 15 227 22  -25.5  0.252 -9.000 -9.000 -999.  303.    55.7  0.2930  0.52  1.00   2.60  334.0  15.0  296.4   2.0    0   0.00   66.   999.     2 NAD-SFC NoSubs
10  8 15 227 23  -31.7  0.303 -9.000 -9.000 -999.  400.    78.3  0.2930  0.52  1.00   3.10  342.0  15.0  295.0   2.0    0   0.00   71.   999.     2 NAD-SFC NoSubs
10  8 15 227 24  -31.8  0.303 -9.000 -9.000 -999.  400.    77.9  0.2930  0.52  1.00   3.10  348.0  15.0  293.5   2.0    0   0.00   77.   999.     2 NAD-SFC NoSubs
10  8 16 228  1  -31.9  0.303 -9.000 -9.000 -999.  400.    77.6  0.2930  0.52  1.00   3.10  356.0  15.0  292.4   2.0    0   0.00   81.   999.     2 NAD-SFC NoSubs
10  8 16 228  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  291.4   2.0    0   0.00   84.   999.     2 NAD-SFC NoSubs
10  8 16 228  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  290.6   2.0    0   0.00   86.  1000.     2 NAD-SFC NoSubs
10  8 16 228  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  290.0   2.0    0   0.00   87.  1000.     2 NAD-SFC NoSubs
10  8 16 228  5   -4.0  0.102 -9.000 -9.000 -999.   79.     23.6  0.2930  0.52  1.00   1.00  339.0  15.0  289.4   2.0    0   0.00   89.  1000.     2 NAD-SFC NoSubs
10  8 16 228  6   -1.5  0.080 -9.000 -9.000 -999.   54.     31.1  0.2160  0.52  0.67   0.50  296.0  15.0  289.0   2.0    0   0.00   90.  1000.     2 NAD-SFC NoSubs
10  8 16 228  7   17.1  0.139  0.369  0.013  104.  125.    -14.2  0.2930  0.52  0.34   1.00  349.0  15.0  289.8   2.0    0   0.00   80.  1000.     2 NAD-SFC NoSubs
10  8 16 228  8   64.8 -9.000 -9.000 -9.000  176. -999. -99999.0  0.2235  0.52  0.23   0.00    0.0  15.0  291.8   2.0    0   0.00   72.  1000.     2 NAD-SFC NoSubs
10  8 16 228  9  107.7 -9.000 -9.000 -9.000  287. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  294.5   2.0    0   0.00   61.  1000.     2 NAD-SFC NoSubs
10  8 16 228 10  141.8 -9.000 -9.000 -9.000  418. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  296.5   2.0    0   0.00   55.   999.     2 NAD-SFC NoSubs
10  8 16 228 11  165.7 -9.000 -9.000 -9.000  614. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  298.6   2.0    0   0.00   50.   999.     2 NAD-SFC NoSubs
10  8 16 228 12  178.3 -9.000 -9.000 -9.000  740. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  300.8   2.0    0   0.00   45.   998.     2 NAD-SFC NoSubs
10  8 16 228 13  179.6 -9.000 -9.000 -9.000  840. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  302.6   2.0    0   0.00   39.   997.     2 NAD-SFC NoSubs
10  8 16 228 14  169.4  0.119  1.639  0.016  925.   99.    -1.0  0.2720  0.52  0.19   0.50  316.0  15.0  304.0   2.0    0   0.00   35.   996.     2 NAD-SFC NoSubs
10  8 16 228 15  147.5  0.180  1.597  0.016  983.  184.    -3.5  0.2930  0.52  0.19   1.00  344.0  15.0  304.8   2.0    0   0.00   33.   996.     2 NAD-SFC NoSubs
10  8 16 228 16  115.0  0.226  1.485  0.016 1012.  258.    -8.9  0.2930  0.52  0.20   1.50  355.0  15.0  305.1   2.0    0   0.00   33.   996.     2 NAD-SFC NoSubs
10  8 16 228 17   73.3  0.215  1.285  0.016 1029.  239.   -12.0  0.2930  0.52  0.23   1.50  353.0  15.0  304.6   2.0    0   0.00   40.   995.     2 NAD-SFC NoSubs
10  8 16 228 18   25.9  0.249  0.910  0.016 1035.  297.   -52.7  0.2930  0.52  0.33   2.10  357.0  15.0  304.0   2.0    0   0.00   44.   996.     2 NAD-SFC NoSubs
10  8 16 228 19   -7.6  0.140 -9.000 -9.000 -999.  132.    32.1  0.2940  0.52  0.64   1.50   15.0  15.0  302.4   2.0    0   0.00   49.   996.     2 NAD-SFC NoSubs
10  8 16 228 20   -1.6  0.082 -9.000 -9.000 -999.   57.    31.6  0.2720  0.52  1.00   0.50  322.0  15.0  300.8   2.0    0   0.00   55.   997.     2 NAD-SFC NoSubs
10  8 16 228 21  -33.5  0.325 -9.000 -9.000 -999.  445.    91.6  0.2160  0.52  1.00   3.60  279.0  15.0  299.1   2.0    0   0.00   60.   997.     2 NAD-SFC NoSubs
10  8 16 228 22  -38.8  0.373 -9.000 -9.000 -999.  545.   118.7  0.2160  0.52  1.00   4.10  292.0  15.0  295.9   2.0    0   0.00   70.   998.     2 NAD-SFC NoSubs
10  8 16 228 23  -34.0  0.325 -9.000 -9.000 -999.  447.    90.1  0.2160  0.52  1.00   3.60  294.0  15.0  294.6   2.0    0   0.00   71.   998.     2 NAD-SFC NoSubs
10  8 16 228 24  -22.2  0.231 -9.000 -9.000 -999.  270.    49.2  0.2160  0.52  1.00   2.60  297.0  15.0  294.2   2.0    0   0.00   69.   999.     2 NAD-SFC NoSubs
10  8 17 229  1  -15.8  0.195 -9.000 -9.000 -999.  208.    42.0  0.2720  0.52  1.00   2.10  308.0  15.0  293.9   2.0    0   0.00   69.   999.     2 NAD-SFC NoSubs
10  8 17 229  2  -24.7  0.246 -9.000 -9.000 -999.  293.    53.7  0.2720  0.52  1.00   2.60  313.0  15.0  293.5   2.0    0   0.00   71.   999.     2 NAD-SFC NoSubs
10  8 17 229  3  -24.8  0.246 -9.000 -9.000 -999.  293.    53.6  0.2720  0.52  1.00   2.60  320.0  15.0  292.8   2.0    0   0.00   76.  1000.     2 NAD-SFC NoSubs
10  8 17 229  4  -15.9  0.195 -9.000 -9.000 -999.  208.    41.8  0.2720  0.52  1.00   2.10  316.0  15.0  292.1   2.0    0   0.00   81.  1000.     2 NAD-SFC NoSubs
10  8 17 229  5  -15.9  0.195 -9.000 -9.000 -999.  207.    41.8  0.2720  0.52  1.00   2.10  328.0  15.0  291.5   2.0    0   0.00   85.  1000.     2 NAD-SFC NoSubs
10  8 17 229  6   -7.8  0.137 -9.000 -9.000 -999.  122.    29.2  0.2720  0.52  0.68   1.50  327.0  15.0  290.9   2.0    0   0.00   88.  1001.     2 NAD-SFC NoSubs
10  8 17 229  7   17.2  0.241  0.385  0.012  118.  284.    -72.9  0.2930  0.52  0.34   2.10  354.0  15.0  291.8   2.0    0   0.00   82.  1001.     2 NAD-SFC NoSubs
10  8 17 229  8   64.9  0.106  0.708  0.014  195.   97.    -1.7  0.2930  0.52  0.23   0.50  339.0  15.0  293.5   2.0    0   0.00   74.  1001.     2 NAD-SFC NoSubs
10  8 17 229  9  107.8 -9.000 -9.000 -9.000  299. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  296.0   2.0    0   0.00   65.  1001.     2 NAD-SFC NoSubs
10  8 17 229 10  142.0 -9.000 -9.000 -9.000  406. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  298.1   2.0    0   0.00   58.  1000.     2 NAD-SFC NoSubs
10  8 17 229 11  165.9 -9.000 -9.000 -9.000  544. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  300.0   2.0    0   0.00   53.  1000.     2 NAD-SFC NoSubs
10  8 17 229 12  178.4 -9.000 -9.000 -9.000  663. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  301.9   2.0    0   0.00   47.   999.     2 NAD-SFC NoSubs
10  8 17 229 13  179.6  0.120  1.568  0.013  766.  100.    -1.0  0.2720  0.52  0.19   0.50  324.0  15.0  303.5   2.0    0   0.00   42.   998.     2 NAD-SFC NoSubs
10  8 17 229 14  169.2  0.183  1.594  0.013  852.  188.    -3.2  0.2930  0.52  0.19   1.00  339.0  15.0  304.6   2.0    0   0.00   39.   997.     2 NAD-SFC NoSubs
10  8 17 229 15  147.1  0.291  1.560  0.013  919.  376.   -14.8  0.2930  0.52  0.19   2.10  355.0  15.0  305.2   2.0    0   0.00   38.   997.     2 NAD-SFC NoSubs
10  8 17 229 16  114.5  0.330  1.460  0.012  969.  455.   -27.9  0.2940  0.52  0.20   2.60    2.0  15.0  305.4   2.0    0   0.00   38.   997.     2 NAD-SFC NoSubs
10  8 17 229 17   72.6 -9.000 -9.000 -9.000  992. -999. -99999.0  0.2235  0.52  0.23   0.00    0.0  15.0  304.9   2.0    0   0.00   46.   997.     2 NAD-SFC NoSubs
10  8 17 229 18   25.2  0.294  0.892  0.012  999.  383.   -89.6  0.2940  0.52  0.33   2.60   12.0  15.0  304.4   2.0    0   0.00   49.   997.     2 NAD-SFC NoSubs
10  8 17 229 19  -23.0  0.253 -9.000 -9.000 -999.  306.    62.3  0.2930  0.52  0.65   2.60  338.0  15.0  303.4   2.0    0   0.00   50.   998.     2 NAD-SFC NoSubs
10  8 17 229 20  -47.8  0.468 -9.000 -9.000 -999.  768.   190.5  0.2160  0.52  1.00   5.10  281.0  15.0  301.2   2.0    0   0.00   55.   998.     2 NAD-SFC NoSubs
10  8 17 229 21  -45.9  0.443 -9.000 -9.000 -999.  709.   168.5  0.1750  0.52  1.00   5.10  269.0  15.0  297.1   2.0    0   0.00   62.   999.     2 NAD-SFC NoSubs
10  8 17 229 22  -38.8  0.373 -9.000 -9.000 -999.  549.   118.6  0.2160  0.52  1.00   4.10  282.0  15.0  295.5   2.0    0   0.00   62.   999.     2 NAD-SFC NoSubs
10  8 17 229 23  -34.1  0.325 -9.000 -9.000 -999.  447.    90.1  0.2160  0.52  1.00   3.60  297.0  15.0  294.6   2.0    0   0.00   63.  1000.     2 NAD-SFC NoSubs
10  8 17 229 24  -31.1  0.296 -9.000 -9.000 -999.  388.    74.8  0.2720  0.52  1.00   3.10  327.0  15.0  294.2   2.0    0   0.00   64.  1000.     2 NAD-SFC NoSubs
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10	8	18	230	1	-31.8	0.303	-9.000	-9.000	-999.	400.	78.0	0.2930	0.52	1.00	3.10	348.0	15.0	293.9	2.0	0	0.00	67.	1001.	2	NAD-SFC NoSubs
10	8	18	230	2	-25.7	0.252	-9.000	-9.000	-999.	304.	55.4	0.2930	0.52	1.00	2.60	355.0	15.0	293.5	2.0	0	0.00	71.	1001.	2	NAD-SFC NoSubs
10	8	18	230	3	-16.5	0.200	-9.000	-9.000	-999.	215.	43.2	0.2940	0.52	1.00	2.10	4.0	15.0	292.9	2.0	0	0.00	74.	1001.	2	NAD-SFC NoSubs
10	8	18	230	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	292.2	2.0	0	0.00	75.	1001.	2	NAD-SFC NoSubs
10	8	18	230	5	-4.0	0.102	-9.000	-9.000	-999.	78.	23.6	0.2930	0.52	1.00	1.00	351.0	15.0	291.8	2.0	0	0.00	76.	1002.	2	NAD-SFC NoSubs
10	8	18	230	6	-1.6	0.083	-9.000	-9.000	-999.	57.	31.7	0.2930	0.52	0.69	0.50	340.0	15.0	291.2	2.0	0	0.00	76.	1002.	2	NAD-SFC NoSubs
10	8	18	230	7	16.6	0.186	0.394	0.013	131.	192.	-34.3	0.2930	0.52	0.34	1.50	352.0	15.0	291.8	2.0	0	0.00	67.	1002.	2	NAD-SFC NoSubs
10	8	18	230	8	64.4	0.106	0.740	0.012	225.	85.	-1.7	0.2930	0.52	0.24	0.50	344.0	15.0	293.5	2.0	0	0.00	61.	1002.	2	NAD-SFC NoSubs
10	8	18	230	9	107.4	-9.000	-9.000	-9.000	317.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.0	2.0	0	0.00	53.	1001.	2	NAD-SFC NoSubs
10	8	18	230	10	141.5	-9.000	-9.000	-9.000	425.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.9	2.0	0	0.00	48.	1001.	2	NAD-SFC NoSubs
10	8	18	230	11	165.3	-9.000	-9.000	-9.000	577.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.8	2.0	0	0.00	46.	1001.	2	NAD-SFC NoSubs
10	8	18	230	12	177.8	0.120	1.522	0.009	708.	100.	-1.0	0.2720	0.52	0.19	0.50	311.0	15.0	301.5	2.0	0	0.00	43.	1000.	2	NAD-SFC NoSubs
10	8	18	230	13	178.8	0.122	1.602	0.010	820.	103.	-1.0	0.2930	0.52	0.19	0.50	342.0	15.0	302.9	2.0	0	0.00	41.	999.	2	NAD-SFC NoSubs
10	8	18	230	14	168.3	0.183	1.627	0.010	914.	188.	-3.2	0.2930	0.52	0.19	1.00	350.0	15.0	303.9	2.0	0	0.00	40.	999.	2	NAD-SFC NoSubs
10	8	18	230	15	146.2	0.232	1.594	0.010	987.	269.	-7.6	0.2940	0.52	0.19	1.50	1.0	15.0	304.6	2.0	0	0.00	39.	998.	2	NAD-SFC NoSubs
10	8	18	230	16	113.7	0.284	1.492	0.010	1040.	363.	-17.9	0.2940	0.52	0.20	2.10	1.0	15.0	305.4	2.0	0	0.00	37.	998.	2	NAD-SFC NoSubs
10	8	18	230	17	71.8	0.271	1.293	0.010	1070.	338.	-24.6	0.2940	0.52	0.23	2.10	14.0	15.0	305.0	2.0	0	0.00	45.	997.	2	NAD-SFC NoSubs
10	8	18	230	18	24.5	0.294	0.906	0.010	1079.	382.	-91.9	0.2940	0.52	0.33	2.60	13.0	15.0	304.6	2.0	0	0.00	48.	998.	2	NAD-SFC NoSubs
10	8	18	230	19	-28.3	0.304	-9.000	-9.000	-999.	402.	88.4	0.2930	0.52	0.66	3.10	338.0	15.0	303.4	2.0	0	0.00	50.	998.	2	NAD-SFC NoSubs
10	8	18	230	20	-48.0	0.468	-9.000	-9.000	-999.	767.	189.7	0.2160	0.52	1.00	5.10	285.0	15.0	300.0	2.0	0	0.00	57.	998.	2	NAD-SFC NoSubs
10	8	18	230	21	-48.6	0.468	-9.000	-9.000	-999.	767.	187.2	0.2160	0.52	1.00	5.10	270.0	15.0	296.2	2.0	0	0.00	62.	999.	2	NAD-SFC NoSubs
10	8	18	230	22	-43.9	0.420	-9.000	-9.000	-999.	655.	150.2	0.2160	0.52	1.00	4.60	275.0	15.0	294.6	2.0	0	0.00	66.	999.	2	NAD-SFC NoSubs
10	8	18	230	23	-39.1	0.372	-9.000	-9.000	-999.	547.	117.7	0.2160	0.52	1.00	4.10	283.0	15.0	293.5	2.0	0	0.00	69.	999.	2	NAD-SFC NoSubs
10	8	18	230	24	-31.3	0.296	-9.000	-9.000	-999.	391.	74.3	0.2720	0.52	1.00	3.10	304.0	15.0	292.5	2.0	0	0.00	72.	1000.	2	NAD-SFC NoSubs
10	8	19	231	1	-15.7	0.196	-9.000	-9.000	-999.	213.	42.4	0.2720	0.52	1.00	2.10	320.0	15.0	292.0	2.0	0	0.00	73.	1000.	3	NAD-SFC NoSubs
10	8	19	231	2	-16.3	0.200	-9.000	-9.000	-999.	215.	43.7	0.2930	0.52	1.00	2.10	331.0	15.0	291.8	2.0	0	0.00	73.	1000.	3	NAD-SFC NoSubs
10	8	19	231	3	-8.0	0.137	-9.000	-9.000	-999.	122.	28.7	0.2720	0.52	1.00	1.50	315.0	15.0	291.4	2.0	0	0.00	73.	1000.	2	NAD-SFC NoSubs
10	8	19	231	4	-8.0	0.137	-9.000	-9.000	-999.	122.	28.7	0.2720	0.52	1.00	1.50	311.0	15.0	291.2	2.0	0	0.00	74.	1000.	2	NAD-SFC NoSubs
10	8	19	231	5	-8.0	0.137	-9.000	-9.000	-999.	122.	28.7	0.2720	0.52	1.00	1.50	310.0	15.0	290.9	2.0	0	0.00	75.	1000.	2	NAD-SFC NoSubs
10	8	19	231	6	-4.0	0.102	-9.000	-9.000	-999.	78.	23.7	0.2930	0.52	0.70	1.00	342.0	15.0	290.5	2.0	0	0.00	77.	1000.	2	NAD-SFC NoSubs
10	8	19	231	7	16.1	0.185	0.362	0.012	106.	191.	-35.2	0.2930	0.52	0.34	1.50	351.0	15.0	291.5	2.0	0	0.00	76.	1001.	2	NAD-SFC NoSubs
10	8	19	231	8	63.8	-9.000	-9.000	-9.000	249.	-999.	-99999.0	0.2235	0.52	0.24	0.00	0.0	15.0	293.0	2.0	0	0.00	73.	1000.	2	NAD-SFC NoSubs
10	8	19	231	9	106.6	-9.000	-9.000	-9.000	368.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	295.1	2.0	0	0.00	66.	1000.	2	NAD-SFC NoSubs
10	8	19	231	10	140.7	-9.000	-9.000	-9.000	491.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.0	2.0	0	0.00	61.	999.	2	NAD-SFC NoSubs
10	8	19	231	11	164.6	-9.000	-9.000	-9.000	607.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.0	2.0	0	0.00	56.	999.	2	NAD-SFC NoSubs
10	8	19	231	12	177.0	-9.000	-9.000	-9.000	722.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.8	2.0	0	0.00	51.	998.	2	NAD-SFC NoSubs
10	8	19	231	13	177.9	-9.000	-9.000	-9.000	829.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.2	2.0	0	0.00	47.	997.	2	NAD-SFC NoSubs
10	8	19	231	14	167.4	-9.000	-9.000	-9.000	918.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.4	2.0	0	0.00	42.	996.	2	NAD-SFC NoSubs
10	8	19	231	15	145.3	0.119	1.592	0.012	987.	98.	-1.0	0.2930	0.52	0.19	0.50	352.0	15.0	304.2	2.0	0	0.00	38.	995.	2	NAD-SFC NoSubs
10	8	19	231	16	112.6	0.226	1.483	0.012	1030.	257.	-9.0	0.2940	0.52	0.20	1.50	13.0	15.0	304.6	2.0	0	0.00	36.	995.	2	NAD-SFC NoSubs
10	8	19	231	17	70.7	0.271	1.281	0.011	1055.	338.	-24.8	0.2940	0.52	0.23	2.10	28.0	15.0	304.4	2.0	0	0.00	42.	994.	2	NAD-SFC NoSubs
10	8	19	231	18	23.2	0.293	0.886	0.011	1062.	380.	-95.7	0.2940	0.52	0.34	2.60	19.0	15.0	303.9	2.0	0	0.00	46.	995.	2	NAD-SFC NoSubs
10	8	19	231	19	-33.0	0.347	-9.000	-9.000	-999.	491.	112.7	0.2720	0.52	0.67	3.60	315.0	15.0	302.4	2.0	0	0.00	50.	995.	2	NAD-SFC NoSubs
10	8	19	231	20	-48.3	0.468	-9.000	-9.000	-999.	767.	187.8	0.2160	0.52	1.00	5.10	277.0	15.0	297.2	2.0	0	0.00	63.	996.	2	NAD-SFC NoSubs
10	8	19	231	21	-48.8	0.467	-9.000	-9.000	-999.	767.	186.1	0.2160	0.52	1.00	5.10	273.0	15.0	294.5	2.0	0	0.00	65.	996.	2	NAD-SFC NoSubs
10	8	19	231	22	-37.0	0.353	-9.000	-9.000	-999.	513.	105.6	0.1750	0.52	1.00	4.10	269.0	15.0	293.2	2.0	0	0.00	68.	997.	2	NAD-SFC NoSubs
10	8	19	231	23	-32.4	0.308	-9.000	-9.000	-999.	412.	80.1	0.1750	0.52	1.00	3.60	266.0	15.0	292.1	2.0	0	0.00	72.	997.	2	NAD-SFC NoSubs
10	8	19	231	24	-22.2	0.230	-9.000	-9.000	-999.	268.	48.9	0.2160	0.52	1.00	2.60	272.0	15.0	291.2	2.0	0	0.00	74.	997.	2	NAD-SFC NoSubs
10	8	20	232	1	-4.0	0.102	-9.000	-9.000	-999.	91.	23.6	0.2930	0.52	1.00	1.00	339.0	15.0	290.9	2.0	0	0.00	74.	997.	2	NAD-SFC NoSubs
10	8	20	232	2	-7.6	0.133	-9.000	-9.000	-999.	117.	27.7	0.2470	0.52	1.00	1.50	34.0	15.0	290.2	2.0	0	0.00	77.	997.	2	NAD-SFC NoSubs
10	8	20	232	3	-4.0	0.102	-9.000	-9.000	-999.	79.	23.7	0.2940	0.52	1.00	1.00	6.0	15.0	289.8	2.0	0	0.00	79.	997.	2	NAD-SFC NoSubs
10	8	20	232	4	-1.6	0.084	-9.000	-9.000	-999.	58.	32.0	0.2720	0.52	1.00	0.50	327.0	15.0	289.2	2.0	0	0.00	79.	997.	2	NAD-SFC NoSubs
10	8	20	232	5	-3.9	0.101	-9.000	-9.000	-999.	77.	23.3	0.2720	0.52	1.00	1.00	311.0	15.0	289.0	2.0	0	0.00	80.	997.	2	NAD-SFC NoSubs
10	8	20	232	6	-3.9	0.100	-9.000	-9.000	-999.	76.	23.3	0.2720	0.52	0.70	1.00	318.0	15.0	288.8	2.0	0	0.00	80.	997.	2	NAD-SFC NoSubs
10	8	20	232	7	15.1	0.224	0.346	0.011	97.	254.	-65.9	0.2160	0.52	0.35	2.10	296.0	15.0	290.0	2.0	0	0.00	73.	997.	2	NAD-SFC NoSubs
10	8	20	232	8	62.9	0.159	0.681	0.013	178.	154.	-5.7	0.2720	0.52	0.24	1.00	317.0	15.0	291.9	2.0	0	0.00	66.	997.	2	NAD-SFC NoSubs
10	8	20	232	9	105.9	-9.000	-9.000	-9.000	293.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	294.4	2.0	0	0.00	55.	997.	2	NAD-SFC NoSubs
10	8	20	232	10	140.0	-9.000	-9.000	-9.000	415.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.4	2.0	0	0.00	50.	997.	2	NAD-SFC NoSubs
10	8	20	232	11	163.9	-9.000	-9.000	-9.000	564.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.5	2.0	0	0.00	46.	996.	2	NAD-SFC NoSubs
10	8	20	232	12	176.4	-9.000	-9.000	-9.000	692.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.5	2.0	0	0.00	41.	995.	2	NAD-SFC NoSubs
10	8	20	232	13	177.4	-9.000	-9.000	-9.000	802.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.2	2.0	0	0.00	36.	994.	2	NAD-SFC NoSubs
10	8	20	232	14	166.9	0.119	1.614	0.014	894.	99.	-1.0	0.2720	0.52	0.19	0.50	326.0	15.0	303.5	2.0	0	0.00	33.	994.	2	NAD-SFC NoSubs
10	8	20	232	15	144.6	0.180	1.580	0.015	967.	183.	-3.6	0.2930	0.52	0.19	1.00	347.0	15.0	304.2	2.0	0	0.00	32.	993.	2	NAD-SFC NoSubs
10	8	20	232	16	111.9	0.225	1.467	0.014	1001.	257.	-9.0	0.2930	0.52	0.20	1.50	348.0	15.0	304.8	2.0	0	0.00	31.	993.	2	NAD-SFC NoSubs
10	8	20	232	17	69.8	0.214	1.262	0.014	1020.	237.	-12.4	0.2930	0.52	0.23	1.50	352.0	15.0	304.4	2.0	0	0.00	39.	993.	2	NAD-SFC NoSubs
10	8	20	232	18	22.2	0.379	0.863	0.014	1025.	560.	-217.0	0.2720	0.52	0.34	3.60	317.0	15.0	303.6	2.0	0	0.00	43.	993.	2	NAD-SFC NoSubs
10	8	20	232	19	-45.9	0.468	-9.000	-9.000	-999.	768.	198.0	0.2160	0.52	0.68	5.10	287.0	15.0	299.0	2.0	0	0.00	58.	994.	2	NAD-SFC NoSubs
10	8	20	232	20	-54.5	0.525	-9.000	-9.000	-999.	912.	235.4	0.2160	0.52	1.00	5.70	279.0	15.0	295.5	2.0	0	0.00	64.	995.	2	NAD-SFC NoSubs
10	8	20	232	21	-43.9	0.420	-9.000	-9.000	-999.	662.	149.7	0.2160	0.52	1.00	4.60	286.0	15.0	293.8	2.0	0	0.00	67.	995.	2	NAD-SFC NoSubs
10	8	20	232	22	-34.1	0.325	-9.000	-9.000	-999.	451.	89.5	0.2160	0.52	1.00	3.60	295.0	15.0	292.6	2.0	0	0.00	70.	996.	2	NAD-SFC NoSubs
10	8	20	232	23	-31.2	0.296	-9.000	-9.000	-999.	388.	74.2	0.2720	0.52	1.00	3.10	315.0	15.0	291.9	2.0	0	0.00	71.	996.	2	NAD-SFC NoSubs
10	8	20	232	24	-32.0	0.303	-9.000	-9.000	-999.	400.	77.3	0.2930	0.52	1.00	3.10	331.0	15.0	291.2	2.0	0	0.00	73.	997.	2	NAD-SFC NoSubs
10	8	21	233	1	-37.5	0.354	-9.000	-9.000	-999.	506.	105.5	0.2930	0.52	1.00	3.60	355.0	15.0	290.6	2.0	0	0.00	75.	997.	2	NAD-SFC NoSubs
10	8	21	233	2	-37.6	0.354	-9.000	-9.000	-999.	506.	105.2	0.2930	0.52	1.00	3.60	349.0	15.0	290.0	2.0	0	0.00	77.	997.	2	NAD-SFC NoSubs
10	8	21	233	3	-32.2	0.303	-9.000	-9.000	-999.	402.	76.8	0.2930	0.52	1.00	3.10	340.0	15.0	289.6	2.0	0	0.00	77.	998.	2	NAD-SFC NoSubs
10	8	21	233	4	-32.2	0.303	-9.000	-9.000	-999.	400.	76.7	0.2930	0.52	1.00	3.10	331.0	15.0	289.2	2.0	0	0.00	76.	998.	2	NAD-SFC NoSubs
10	8	21	233	5	-25.8	0.251	-9.000	-9.000	-999.	304.	54.9	0.2930	0.52	1.00	2.60	336.0	15.0	289.2	2.0	0	0.00	76.	998.	2	NAD-SFC NoSubs

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10  8 21 233  6  -25.6  0.252 -9.000 -9.000 -999.  303.     55.3  0.2930  0.52  0.71   2.60  345.0  15.0  289.0  2.0   0  0.00  76.   999.   2 NAD-SFC NoSubs
10  8 21 233  7   14.7  0.281  0.333  0.011   89.  357.   -133.8  0.2720  0.52  0.35   2.60  321.0  15.0  290.4  2.0   0  0.00  68.   999.   2 NAD-SFC NoSubs
10  8 21 233  8   62.5  0.159  0.688  0.011  185.  161.     -5.8  0.2720  0.52  0.24   1.00  319.0  15.0  292.1  2.0   0  0.00  63.   999.   2 NAD-SFC NoSubs
10  8 21 233  9  105.3 -9.000 -9.000 -9.000  338. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  294.1  2.0   0  0.00  57.   999.   2 NAD-SFC NoSubs
10  8 21 233 10  139.5 -9.000 -9.000 -9.000  470. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  296.0  2.0   0  0.00  52.   999.   2 NAD-SFC NoSubs
10  8 21 233 11  163.3 -9.000 -9.000 -9.000  586. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  298.1  2.0   0  0.00  47.   998.   2 NAD-SFC NoSubs
10  8 21 233 12  175.7 -9.000 -9.000 -9.000  693. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  300.1  2.0   0  0.00  41.   998.   2 NAD-SFC NoSubs
10  8 21 233 13  176.6  0.120  1.578  0.012  793.  100.     -1.0  0.2720  0.52  0.19   0.50  324.0  15.0  301.6  2.0   0  0.00  37.   997.   2 NAD-SFC NoSubs
10  8 21 233 14  165.9  0.183  1.598  0.013  877.  187.     -3.3  0.2930  0.52  0.19   1.00  339.0  15.0  302.8  2.0   0  0.00  35.   997.   2 NAD-SFC NoSubs
10  8 21 233 15  143.7  0.290  1.562  0.013  944.  375.    -15.1  0.2930  0.52  0.19   2.10  353.0  15.0  303.6  2.0   0  0.00  32.   996.   2 NAD-SFC NoSubs
10  8 21 233 16  110.7  0.329  1.454  0.013  988.  452.    -28.5  0.2930  0.52  0.20   2.60  355.0  15.0  303.9  2.0   0  0.00  32.   996.   2 NAD-SFC NoSubs
10  8 21 233 17   68.4  0.269  1.248  0.013 1009.  337.    -25.4  0.2930  0.52  0.24   2.10  348.0  15.0  303.4  2.0   0  0.00  40.   996.   2 NAD-SFC NoSubs
10  8 21 233 18   20.8  0.378  0.841  0.012 1015.  557.   -230.3  0.2720  0.52  0.34   3.60  324.0  15.0  302.8  2.0   0  0.00  44.   997.   2 NAD-SFC NoSubs
10  8 21 233 19  -46.5  0.468 -9.000 -9.000 -999.  768.    195.9  0.2160  0.52  0.69   5.10  290.0  15.0  299.4  2.0   0  0.00  52.   998.   2 NAD-SFC NoSubs
10  8 21 233 20  -46.1  0.443 -9.000 -9.000 -999.  708.    167.7  0.1750  0.52  1.00   5.10  267.0  15.0  295.8  2.0   0  0.00  62.   998.   2 NAD-SFC NoSubs
10  8 21 233 21  -44.0  0.420 -9.000 -9.000 -999.  654.    149.8  0.2160  0.52  1.00   4.60  275.0  15.0  293.9  2.0   0  0.00  66.   999.   2 NAD-SFC NoSubs
10  8 21 233 22  -39.2  0.372 -9.000 -9.000 -999.  547.    117.4  0.2160  0.52  1.00   4.10  274.0  15.0  292.8  2.0   0  0.00  70.   999.   2 NAD-SFC NoSubs
10  8 21 233 23  -34.3  0.325 -9.000 -9.000 -999.  447.     89.3  0.2160  0.52  1.00   3.60  277.0  15.0  292.1  2.0   0  0.00  72.  1000.   2 NAD-SFC NoSubs
10  8 21 233 24  -31.3  0.296 -9.000 -9.000 -999.  388.     74.2  0.2720  0.52  1.00   3.10  301.0  15.0  291.9  2.0   0  0.00  72.  1000.   2 NAD-SFC NoSubs
10  8 22 234  1  -24.5  0.246 -9.000 -9.000 -999.  294.     54.3  0.2720  0.52  1.00   2.60  326.0  15.0  291.8  2.0   0  0.00  73.  1000.   3 NAD-SFC NoSubs
10  8 22 234  2  -25.7  0.252 -9.000 -9.000 -999.  303.     55.2  0.2930  0.52  1.00   2.60  353.0  15.0  291.6  2.0   0  0.00  76.  1000.   2 NAD-SFC NoSubs
10  8 22 234  3   -8.3  0.140 -9.000 -9.000 -999.  132.     29.5  0.2940  0.52  1.00   1.50    4.0  15.0  291.2  2.0   0  0.00  80.  1001.   2 NAD-SFC NoSubs
10  8 22 234  4   -4.0  0.102 -9.000 -9.000 -999.   79.     23.6  0.2930  0.52  1.00   1.00  352.0  15.0  290.6  2.0   0  0.00  82.  1001.   2 NAD-SFC NoSubs
10  8 22 234  5   -4.0  0.102 -9.000 -9.000 -999.   78.     23.6  0.2930  0.52  1.00   1.00  337.0  15.0  290.0  2.0   0  0.00  84.  1001.   2 NAD-SFC NoSubs
10  8 22 234  6   -1.6  0.084 -9.000 -9.000 -999.   58.     31.9  0.2930  0.52  0.72   0.50  336.0  15.0  289.6  2.0   0  0.00  86.  1002.   2 NAD-SFC NoSubs
10  8 22 234  7   14.1  0.183  0.383  0.011  142.  188.    -39.0  0.2930  0.52  0.35   1.50  343.0  15.0  290.2  2.0   0  0.00  78.  1002.   2 NAD-SFC NoSubs
10  8 22 234  8   61.9  0.104  0.759  0.010  252.   82.     -1.6  0.2720  0.52  0.24   0.50  328.0  15.0  291.9  2.0   0  0.00  70.  1002.   2 NAD-SFC NoSubs
10  8 22 234  9  104.7 -9.000 -9.000 -9.000  347. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  293.6  2.0   0  0.00  63.  1002.   2 NAD-SFC NoSubs
10  8 22 234 10  138.8 -9.000 -9.000 -9.000  494. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  295.5  2.0   0  0.00  57.  1002.   2 NAD-SFC NoSubs
10  8 22 234 11  162.5  0.119  1.440  0.010  657.   98.     -1.0  0.2720  0.52  0.19   0.50  311.0  15.0  297.2  2.0   0  0.00  53.  1002.   2 NAD-SFC NoSubs
10  8 22 234 12  174.6  0.120  1.563  0.010  782.  100.     -1.0  0.2720  0.52  0.19   0.50  321.0  15.0  298.8  2.0   0  0.00  49.  1001.   2 NAD-SFC NoSubs
10  8 22 234 13  175.4  0.181  1.635  0.011  891.  185.     -3.0  0.2720  0.52  0.19   1.00  328.0  15.0  300.2  2.0   0  0.00  45.  1001.   2 NAD-SFC NoSubs
10  8 22 234 14  164.6  0.294  1.653  0.012  980.  383.    -13.8  0.2930  0.52  0.19   2.10  342.0  15.0  301.2  2.0   0  0.00  42.  1000.   2 NAD-SFC NoSubs
10  8 22 234 15  142.0  0.337  1.601  0.012 1033.  469.    -24.0  0.2930  0.52  0.19   2.60  345.0  15.0  301.8  2.0   0  0.00  41.  1000.   2 NAD-SFC NoSubs
10  8 22 234 16  108.8  0.420  1.483  0.012 1072.  654.    -60.8  0.2930  0.52  0.20   3.60  345.0  15.0  301.8  2.0   0  0.00  41.  1000.   2 NAD-SFC NoSubs
10  8 22 234 17   66.5  0.315  1.268  0.012 1094.  432.    -41.9  0.2930  0.52  0.24   2.60  354.0  15.0  301.4  2.0   0  0.00  48.  1000.   2 NAD-SFC NoSubs
10  8 22 234 18   18.9  0.336  0.836  0.011 1100.  467.   -178.3  0.2930  0.52  0.35   3.10  337.0  15.0  300.8  2.0   0  0.00  51.  1000.   2 NAD-SFC NoSubs
10  8 22 234 19  -30.5  0.303 -9.000 -9.000 -999.  402.     81.6  0.2930  0.52  0.71   3.10  341.0  15.0  299.6  2.0   0  0.00  54.  1000.   2 NAD-SFC NoSubs
10  8 22 234 20  -31.4  0.303 -9.000 -9.000 -999.  401.     79.2  0.2930  0.52  1.00   3.10  333.0  15.0  298.2  2.0   0  0.00  58.  1001.   2 NAD-SFC NoSubs
10  8 22 234 21  -15.8  0.195 -9.000 -9.000 -999.  213.     42.2  0.2720  0.52  1.00   2.10  321.0  15.0  297.0  2.0   0  0.00  62.  1001.   2 NAD-SFC NoSubs
10  8 22 234 22   -1.6  0.083 -9.000 -9.000 -999.   67.     31.7  0.2720  0.52  1.00   0.50  326.0  15.0  295.9  2.0   0  0.00  65.  1001.   2 NAD-SFC NoSubs
10  8 22 234 23   -1.6  0.083 -9.000 -9.000 -999.   57.     31.8  0.2720  0.52  1.00   0.50  326.0  15.0  294.9  2.0   0  0.00  69.  1001.   2 NAD-SFC NoSubs
10  8 22 234 24   -1.5  0.081 -9.000 -9.000 -999.   55.     31.3  0.2160  0.52  1.00   0.50  294.0  15.0  293.8  2.0   0  0.00  73.  1001.   2 NAD-SFC NoSubs
10  8 23 235  1   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.2160  0.52  1.00   0.50  299.0  15.0  293.0  2.0   0  0.00  76.  1001.   2 NAD-SFC NoSubs
10  8 23 235  2   -1.6  0.083 -9.000 -9.000 -999.   58.     31.8  0.2720  0.52  1.00   0.50  319.0  15.0  292.2  2.0   0  0.00  78.  1001.   2 NAD-SFC NoSubs
10  8 23 235  3   -1.6  0.083 -9.000 -9.000 -999.   58.     31.9  0.2720  0.52  1.00   0.50  314.0  15.0  291.8  2.0   0  0.00  80.  1001.   2 NAD-SFC NoSubs
10  8 23 235  4   -8.0  0.137 -9.000 -9.000 -999.  122.     28.7  0.2720  0.52  1.00   1.50  301.0  15.0  291.1  2.0   0  0.00  80.  1001.   2 NAD-SFC NoSubs
10  8 23 235  5  -22.4  0.230 -9.000 -9.000 -999.  266.     48.9  0.2160  0.52  1.00   2.60  299.0  15.0  290.6  2.0   0  0.00  78.  1001.   2 NAD-SFC NoSubs
10  8 23 235  6  -24.8  0.246 -9.000 -9.000 -999.  293.     53.6  0.2720  0.52  0.73   2.60  312.0  15.0  290.1  2.0   0  0.00  77.  1002.   2 NAD-SFC NoSubs
10  8 23 235  7   13.9  0.284  0.292  0.006   64.  364.   -148.4  0.2930  0.52  0.35   2.60  343.0  15.0  291.1  2.0   0  0.00  72.  1002.   2 NAD-SFC NoSubs
10  8 23 235  8   61.7  0.162  0.684  0.007  185.  165.     -6.1  0.2930  0.52  0.24   1.00  332.0  15.0  292.9  2.0   0  0.00  63.  1002.   2 NAD-SFC NoSubs
10  8 23 235  9  104.8 -9.000 -9.000 -9.000  341. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  295.2  2.0   0  0.00  56.  1002.   2 NAD-SFC NoSubs
10  8 23 235 10  139.2 -9.000 -9.000 -9.000  581. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  297.8  2.0   0  0.00  47.  1002.   2 NAD-SFC NoSubs
10  8 23 235 11  163.0 -9.000 -9.000 -9.000  752. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  299.8  2.0   0  0.00  41.  1001.   2 NAD-SFC NoSubs
10  8 23 235 12  175.4 -9.000 -9.000 -9.000  877. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  301.6  2.0   0  0.00  36.  1000.   2 NAD-SFC NoSubs
10  8 23 235 13  176.3 -9.000 -9.000 -9.000  980. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  303.2  2.0   0  0.00  32.   999.   2 NAD-SFC NoSubs
10  8 23 235 14  165.6 -9.000 -9.000 -9.000 1028. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  304.5  2.0   0  0.00  30.   998.   2 NAD-SFC NoSubs
10  8 23 235 15  143.1  0.180  1.624  0.013 1067.  183.     -3.6  0.2930  0.52  0.19   1.00  358.0  15.0  305.1  2.0   0  0.00  30.   997.   2 NAD-SFC NoSubs
10  8 23 235 16  110.0  0.329  1.502  0.012 1096.  453.    -28.7  0.2940  0.52  0.20   2.60   14.0  15.0  305.6  2.0   0  0.00  32.   997.   2 NAD-SFC NoSubs
10  8 23 235 17   67.3  0.316  1.282  0.012 1113.  426.    -41.5  0.2940  0.52  0.24   2.60    8.0  15.0  304.8  2.0   0  0.00  43.   996.   2 NAD-SFC NoSubs
10  8 23 235 18   19.4  0.384  0.848  0.012 1116.  571.   -258.8  0.2940  0.52  0.35   3.60   22.0  15.0  303.6  2.0   0  0.00  49.   997.   2 NAD-SFC NoSubs
10  8 23 235 19  -35.5  0.355 -9.000 -9.000 -999.  509.    112.0  0.2940  0.52  0.72   3.60   25.0  15.0  302.4  2.0   0  0.00  51.   997.   2 NAD-SFC NoSubs
10  8 23 235 20  -16.2  0.200 -9.000 -9.000 -999.  232.     44.0  0.2940  0.52  1.00   2.10   10.0  15.0  301.2  2.0   0  0.00  53.   997.   2 NAD-SFC NoSubs
10  8 23 235 21   -3.9  0.101 -9.000 -9.000 -999.   84.     23.7  0.2930  0.52  1.00   1.00  332.0  15.0  299.9  2.0   0  0.00  57.   998.   2 NAD-SFC NoSubs
10  8 23 235 22   -7.1  0.129 -9.000 -9.000 -999.  111.     26.8  0.2160  0.52  1.00   1.50  295.0  15.0  298.5  2.0   0  0.00  63.   998.   2 NAD-SFC NoSubs
10  8 23 235 23   -7.1  0.129 -9.000 -9.000 -999.  111.     26.7  0.2160  0.52  1.00   1.50  298.0  15.0  297.5  2.0   0  0.00  66.   998.   2 NAD-SFC NoSubs
10  8 23 235 24   -4.0  0.102 -9.000 -9.000 -999.   78.     23.7  0.2930  0.52  1.00   1.00  335.0  15.0  296.8  2.0   0  0.00  67.   998.   2 NAD-SFC NoSubs
10  8 24 236  1   -7.9  0.137 -9.000 -9.000 -999.  121.     28.9  0.2720  0.52  1.00   1.50  324.0  15.0  295.9  2.0   0  0.00  70.   998.   2 NAD-SFC NoSubs
10  8 24 236  2  -15.8  0.195 -9.000 -9.000 -999.  207.     42.1  0.2720  0.52  1.00   2.10  315.0  15.0  295.2  2.0   0  0.00  72.   998.   2 NAD-SFC NoSubs
10  8 24 236  3  -14.2  0.183 -9.000 -9.000 -999.  188.     38.4  0.2160  0.52  1.00   2.10  299.0  15.0  294.8  2.0   0  0.00  72.   998.   2 NAD-SFC NoSubs
10  8 24 236  4  -22.2  0.231 -9.000 -9.000 -999.  266.     49.2  0.2160  0.52  1.00   2.60  287.0  15.0  294.4  2.0   0  0.00  70.   999.   2 NAD-SFC NoSubs
10  8 24 236  5  -22.2  0.231 -9.000 -9.000 -999.  266.     49.2  0.2160  0.52  1.00   2.60  294.0  15.0  294.2  2.0   0  0.00  68.   999.   2 NAD-SFC NoSubs
10  8 24 236  6  -15.8  0.195 -9.000 -9.000 -999.  208.     42.1  0.2720  0.52  0.73   2.10  302.0  15.0  293.9  2.0   0  0.00  66.   999.   2 NAD-SFC NoSubs
10  8 24 236  7   14.4  0.235  0.267  0.010   47.  273.    -79.7  0.2720  0.52  0.35   2.10  307.0  15.0  294.5  2.0   0  0.00  63.   999.   2 NAD-SFC NoSubs
10  8 24 236  8   62.9  0.263  0.611  0.009  129.  324.    -25.8  0.2720  0.52  0.24   2.10  310.0  15.0  297.5  2.0   0  0.00  49.   999.   2 NAD-SFC NoSubs
10  8 24 236  9  106.1  0.210  0.911  0.010  254.  232.     -7.8  0.2160  0.52  0.20   1.50  299.0  15.0  299.6  2.0   0  0.00  45.   999.   2 NAD-SFC NoSubs
10  8 24 236 10  140.8  0.116  1.159  0.008  393.   99.     -1.0  0.2720  0.52  0.19   0.50  301.0  15.0  302.4  2.0   0  0.00  39.   998.   2 NAD-SFC NoSubs
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10  8 24 236 11  165.0  0.119  1.383  0.008  571.   98.     -1.0  0.2720  0.52  0.19  0.50  324.0  15.0  304.8  2.0  0  0.00  34.  998.  2 NAD-SFC NoSubs
10  8 24 236 12  177.6  0.122  1.530  0.006  719.  103.     -1.0  0.2930  0.52  0.19  0.50  331.0  15.0  306.8  2.0  0  0.00  29.  997.  2 NAD-SFC NoSubs
10  8 24 236 13  178.5  0.185  1.618  0.005  845.  190.     -3.1  0.2940  0.52  0.19  1.00    9.0  15.0  308.1  2.0  0  0.00  28.  996.  2 NAD-SFC NoSubs
10  8 24 236 14  167.5  0.237  1.646  0.005  948.  276.     -7.0  0.2940  0.52  0.19  1.50   17.0  15.0  308.9  2.0  0  0.00  28.  996.  2 NAD-SFC NoSubs
10  8 24 236 15  144.7  0.338  1.638  0.005 1079.  471.    -23.6  0.2940  0.52  0.19  2.60   20.0  15.0  309.2  2.0  0  0.00  29.  995.  2 NAD-SFC NoSubs
10  8 24 236 16  110.9  0.376  1.544  0.005 1179.  552.    -42.4  0.2940  0.52  0.20  3.10   19.0  15.0  308.6  2.0  0  0.00  36.  995.  2 NAD-SFC NoSubs
10  8 24 236 17   67.9  0.408  1.332  0.005 1235.  624.    -88.4  0.2940  0.52  0.24  3.60   20.0  15.0  307.4  2.0  0  0.00  45.  994.  2 NAD-SFC NoSubs
10  8 24 236 18   19.9  0.432  0.887  0.005 1246.  681.   -360.0  0.2940  0.52  0.35  4.10   25.0  15.0  306.2  2.0  0  0.00  48.  995.  2 NAD-SFC NoSubs
10  8 24 236 19  -30.2  0.304 -9.000 -9.000 -999.  413.    82.4  0.2940  0.52  0.73  3.10   14.0  15.0  305.8  2.0  0  0.00  46.  995.  2 NAD-SFC NoSubs
10  8 24 236 20  -21.7  0.231 -9.000 -9.000 -999.  269.    50.2  0.2160  0.52  1.00  2.60  296.0  15.0  304.6  2.0  0  0.00  48.  995.  2 NAD-SFC NoSubs
10  8 24 236 21  -42.6  0.420 -9.000 -9.000 -999.  654.   154.6  0.2160  0.52  1.00  4.60  289.0  15.0  303.0  2.0  0  0.00  54.  996.  2 NAD-SFC NoSubs
10  8 24 236 22  -38.0  0.373 -9.000 -9.000 -999.  548.   120.9  0.2160  0.52  1.00  4.10  299.0  15.0  301.1  2.0  0  0.00  59.  996.  2 NAD-SFC NoSubs
10  8 24 236 23  -35.5  0.347 -9.000 -9.000 -999.  491.   104.4  0.2720  0.52  1.00  3.60  308.0  15.0  300.1  2.0  0  0.00  60.  997.  2 NAD-SFC NoSubs
10  8 24 236 24  -35.6  0.347 -9.000 -9.000 -999.  490.   104.1  0.2720  0.52  1.00  3.60  326.0  15.0  299.4  2.0  0  0.00  60.  997.  2 NAD-SFC NoSubs
10  8 25 237  1  -36.5  0.355 -9.000 -9.000 -999.  506.   108.5  0.2930  0.52  1.00  3.60  340.0  15.0  298.8  2.0  0  0.00  59.  997.  2 NAD-SFC NoSubs
10  8 25 237  2  -25.4  0.252 -9.000 -9.000 -999.  309.    55.9  0.2930  0.52  1.00  2.60  352.0  15.0  298.2  2.0  0  0.00  59.  998.  2 NAD-SFC NoSubs
10  8 25 237  3  -25.5  0.252 -9.000 -9.000 -999.  304.    55.9  0.2940  0.52  1.00  2.60   16.0  15.0  297.8  2.0  0  0.00  60.  998.  2 NAD-SFC NoSubs
10  8 25 237  4   -7.5  0.133 -9.000 -9.000 -999.  125.    28.0  0.2470  0.52  1.00  1.50   36.0  15.0  297.2  2.0  0  0.00  60.  998.  2 NAD-SFC NoSubs
10  8 25 237  5   -1.5  0.080 -9.000 -9.000 -999.   55.    31.2  0.2090  0.52  1.00  0.50   68.0  15.0  296.9  2.0  0  0.00  62.  998.  2 NAD-SFC NoSubs
10  8 25 237  6   -1.5  0.080 -9.000 -9.000 -999.   54.    31.2  0.2130  0.52  0.74  0.50  105.0  15.0  296.4  2.0  0  0.00  65.  998.  2 NAD-SFC NoSubs
10  8 25 237  7   14.7  0.082  0.289  0.014   58.   56.    -3.3  0.2130  0.52  0.36  0.50   90.0  15.0  296.8  2.0  0  0.00  67.  998.  2 NAD-SFC NoSubs
10  8 25 237  8   63.4 -9.000 -9.000 -9.000  156. -999. -99999.0  0.2235  0.52  0.24  0.00    0.0  15.0  299.9  2.0  0  0.00  53.  998.  2 NAD-SFC NoSubs
10  8 25 237  9  106.7 -9.000 -9.000 -9.000  295. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  302.1  2.0  0  0.00  48.  998.  2 NAD-SFC NoSubs
10  8 25 237 10  141.4  0.110  1.230  0.007  469.   88.     -1.0  0.2160  0.52  0.19  0.50  283.0  15.0  304.5  2.0  0  0.00  40.  998.  2 NAD-SFC NoSubs
10  8 25 237 11  165.6 -9.000 -9.000 -9.000  656. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  306.8  2.0  0  0.00  33.  997.  2 NAD-SFC NoSubs
10  8 25 237 12  178.2 -9.000 -9.000 -9.000  802. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  308.6  2.0  0  0.00  30.  997.  2 NAD-SFC NoSubs
10  8 25 237 13  179.1  0.122  1.671  0.007  927.  103.     -1.0  0.2930  0.52  0.19  0.50  352.0  15.0  310.0  2.0  0  0.00  28.  996.  2 NAD-SFC NoSubs
10  8 25 237 14  168.2  0.183  1.696  0.007 1032.  188.     -3.2  0.2940  0.52  0.19  1.00    7.0  15.0  311.0  2.0  0  0.00  27.  996.  2 NAD-SFC NoSubs
10  8 25 237 15  145.4  0.338  1.659  0.006 1116.  471.    -23.5  0.2940  0.52  0.19  2.60   15.0  15.0  311.4  2.0  0  0.00  28.  995.  2 NAD-SFC NoSubs
10  8 25 237 16  111.3  0.376  1.543  0.006 1173.  552.    -42.3  0.2940  0.52  0.21  3.10   13.0  15.0  310.5  2.0  0  0.00  38.  995.  2 NAD-SFC NoSubs
10  8 25 237 17   68.2 -9.000 -9.000 -9.000 1205. -999. -99999.0  0.2235  0.52  0.24  0.00    0.0  15.0  309.5  2.0  0  0.00  45.  996.  2 NAD-SFC NoSubs
10  8 25 237 18   20.4  0.424  0.886  0.006 1213.  664.   -333.7  0.2720  0.52  0.36  4.10  326.0  15.0  308.6  2.0  0  0.00  45.  996.  2 NAD-SFC NoSubs
10  8 25 237 19  -47.0  0.468 -9.000 -9.000 -999.  767.    193.7  0.2160  0.52  0.75  5.10  289.0  15.0  304.9  2.0  0  0.00  49.  997.  2 NAD-SFC NoSubs
10  8 25 237 20  -42.9  0.420 -9.000 -9.000 -999.  656.    153.7  0.2160  0.52  1.00  4.60  277.0  15.0  301.2  2.0  0  0.00  55.  997.  2 NAD-SFC NoSubs
10  8 25 237 21  -33.4  0.325 -9.000 -9.000 -999.  451.     91.8  0.2160  0.52  1.00  3.60  291.0  15.0  300.0  2.0  0  0.00  57.  998.  2 NAD-SFC NoSubs
10  8 25 237 22  -30.5  0.297 -9.000 -9.000 -999.  388.     76.2  0.2720  0.52  1.00  3.10  328.0  15.0  299.4  2.0  0  0.00  56.  998.  2 NAD-SFC NoSubs
10  8 25 237 23  -36.5  0.355 -9.000 -9.000 -999.  506.    108.6  0.2930  0.52  1.00  3.60  348.0  15.0  298.9  2.0  0  0.00  57.  999.  2 NAD-SFC NoSubs
10  8 25 237 24  -36.6  0.355 -9.000 -9.000 -999.  507.    108.6  0.2940  0.52  1.00  3.60   13.0  15.0  298.4  2.0  0  0.00  59.  999.  2 NAD-SFC NoSubs
10  8 26 238  1  -42.1  0.406 -9.000 -9.000 -999.  621.    142.1  0.2940  0.52  1.00  4.10   13.0  15.0  297.8  2.0  0  0.00  61. 1000.  2 NAD-SFC NoSubs
10  8 26 238  2  -36.9  0.355 -9.000 -9.000 -999.  509.    108.1  0.2940  0.52  1.00  3.60   12.0  15.0  297.0  2.0  0  0.00  63. 1000.  2 NAD-SFC NoSubs
10  8 26 238  3  -36.9  0.355 -9.000 -9.000 -999.  507.    108.0  0.2940  0.52  1.00  3.60   12.0  15.0  296.8  2.0  0  0.00  62. 1000.  2 NAD-SFC NoSubs
10  8 26 238  4  -36.9  0.354 -9.000 -9.000 -999.  506.    107.7  0.2930  0.52  1.00  3.60  360.0  15.0  296.5  2.0  0  0.00  61. 1000.  2 NAD-SFC NoSubs
10  8 26 238  5  -31.6  0.303 -9.000 -9.000 -999.  402.     78.7  0.2930  0.52  1.00  3.10  348.0  15.0  296.2  2.0  0  0.00  60. 1000.  2 NAD-SFC NoSubs
10  8 26 238  6  -30.8  0.297 -9.000 -9.000 -999.  388.     75.4  0.2720  0.52  0.75  3.10  327.0  15.0  296.1  2.0  0  0.00  59. 1000.  2 NAD-SFC NoSubs
10  8 26 238  7   14.0  0.280  0.347  0.012  106.  355.   -139.6  0.2720  0.52  0.36  2.60  321.0  15.0  296.2  2.0  0  0.00  60. 1000.  2 NAD-SFC NoSubs
10  8 26 238  8   61.8  0.308  0.738  0.011  232.  410.    -42.2  0.2720  0.52  0.24  2.60  324.0  15.0  297.4  2.0  0  0.00  56. 1001.  2 NAD-SFC NoSubs
10  8 26 238  9  104.7  0.277  0.975  0.012  316.  349.    -18.0  0.2720  0.52  0.21  2.10  316.0  15.0  298.8  2.0  0  0.00  49. 1001.  2 NAD-SFC NoSubs
10  8 26 238 10  139.0  0.116  1.166  0.011  406.  118.     -1.0  0.2720  0.52  0.19  0.50  318.0  15.0  300.6  2.0  0  0.00  46. 1000.  2 NAD-SFC NoSubs
10  8 26 238 11  163.1  0.119  1.333  0.009  519.   98.     -1.0  0.2720  0.52  0.19  0.50  326.0  15.0  302.9  2.0  0  0.00  41. 1000.  2 NAD-SFC NoSubs
10  8 26 238 12  175.4 -9.000 -9.000 -9.000  618. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  304.6  2.0  0  0.00  39.  999.  2 NAD-SFC NoSubs
10  8 26 238 13  176.1  0.122  1.538  0.005  736.  102.     -1.0  0.2930  0.52  0.19  0.50  358.0  15.0  306.1  2.0  0  0.00  38.  998.  2 NAD-SFC NoSubs
10  8 26 238 14  165.1  0.183  1.581  0.005  852.  187.     -3.3  0.2930  0.52  0.19  1.00  352.0  15.0  307.2  2.0  0  0.00  36.  997.  2 NAD-SFC NoSubs
10  8 26 238 15  142.3  0.290  1.555  0.005  940.  374.    -15.2  0.2930  0.52  0.19  2.10  348.0  15.0  307.8  2.0  0  0.00  35.  996.  2 NAD-SFC NoSubs
10  8 26 238 16  108.7  0.375  1.501  0.006 1108.  550.    -43.0  0.2930  0.52  0.21  3.10  356.0  15.0  307.8  2.0  0  0.00  37.  996.  2 NAD-SFC NoSubs
10  8 26 238 17   65.9  0.315  1.324  0.008 1252.  427.    -42.2  0.2940  0.52  0.24  2.60    4.0  15.0  307.2  2.0  0  0.00  48.  996.  2 NAD-SFC NoSubs
10  8 26 238 18   19.4  0.377  0.889  0.008 1285.  555.   -244.7  0.2720  0.52  0.36  3.60  316.0  15.0  306.4  2.0  0  0.00  50.  996.  3 NAD-SFC NoSubs
10  8 26 238 19  -46.3  0.468 -9.000 -9.000 -999.  768.    196.7  0.2160  0.52  0.76  5.10  276.0  15.0  302.5  2.0  0  0.00  54.  997.  3 NAD-SFC NoSubs
10  8 26 238 20  -59.0  0.573 -9.000 -9.000 -999. 1040.    283.7  0.2160  0.52  1.00  6.20  275.0  15.0  298.8  2.0  0  0.00  57.  997.  2 NAD-SFC NoSubs
10  8 26 238 21  -48.4  0.468 -9.000 -9.000 -999.  778.    187.8  0.2160  0.52  1.00  5.10  271.0  15.0  297.1  2.0  0  0.00  62.  997.  2 NAD-SFC NoSubs
10  8 26 238 22  -33.8  0.325 -9.000 -9.000 -999.  462.     90.6  0.2160  0.52  1.00  3.60  274.0  15.0  296.0  2.0  0  0.00  64.  997.  2 NAD-SFC NoSubs
10  8 26 238 23  -14.0  0.183 -9.000 -9.000 -999.  204.     39.1  0.2160  0.52  1.00  2.10  290.0  15.0  295.5  2.0  0  0.00  65.  998.  3 NAD-SFC NoSubs
10  8 26 238 24   -8.1  0.140 -9.000 -9.000 -999.  126.     30.1  0.2930  0.52  1.00  1.50  334.0  15.0  295.0  2.0  0  0.00  67.  998.  3 NAD-SFC NoSubs
10  8 27 239  1   -8.1  0.140 -9.000 -9.000 -999.  125.     30.0  0.2930  0.52  1.00  1.50  335.0  15.0  294.4  2.0  0  0.00  70.  998.  3 NAD-SFC NoSubs
10  8 27 239  2   -7.8  0.137 -9.000 -9.000 -999.  121.     29.2  0.2720  0.52  1.00  1.50  301.0  15.0  294.0  2.0  0  0.00  72.  998.  3 NAD-SFC NoSubs
10  8 27 239  3  -14.0  0.183 -9.000 -9.000 -999.  188.     38.9  0.2160  0.52  1.00  2.10  282.0  15.0  293.8  2.0  0  0.00  72.  998.  3 NAD-SFC NoSubs
10  8 27 239  4  -22.2  0.231 -9.000 -9.000 -999.  266.     49.1  0.2160  0.52  1.00  2.60  284.0  15.0  293.4  2.0  0  0.00  72.  998.  2 NAD-SFC NoSubs
10  8 27 239  5  -22.2  0.231 -9.000 -9.000 -999.  266.     49.1  0.2160  0.52  1.00  2.60  291.0  15.0  293.2  2.0  0  0.00  73.  998.  2 NAD-SFC NoSubs
10  8 27 239  6   -7.2  0.129 -9.000 -9.000 -999.  116.     26.6  0.2160  0.52  0.76  1.50  299.0  15.0  292.9  2.0  0  0.00  74.  998.  2 NAD-SFC NoSubs
10  8 27 239  7   12.6  0.179  0.309  0.011   83.  181.    -40.3  0.2720  0.52  0.36  1.50  315.0  15.0  293.8  2.0  0  0.00  72.  998.  2 NAD-SFC NoSubs
10  8 27 239  8   60.4  0.104  0.741  0.011  240.   82.     -1.6  0.2720  0.52  0.24  0.50  310.0  15.0  295.2  2.0  0  0.00  66.  998.  2 NAD-SFC NoSubs
10  8 27 239  9  103.6 -9.000 -9.000 -9.000  391. -999. -99999.0  0.2235  0.52  0.21  0.00    0.0  15.0  297.1  2.0  0  0.00  61.  998.  2 NAD-SFC NoSubs
10  8 27 239 10  137.7 -9.000 -9.000 -9.000  501. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  298.8  2.0  0  0.00  56.  998.  2 NAD-SFC NoSubs
10  8 27 239 11  161.5 -9.000 -9.000 -9.000  607. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  300.8  2.0  0  0.00  50.  997.  2 NAD-SFC NoSubs
10  8 27 239 12  173.7 -9.000 -9.000 -9.000  717. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  302.4  2.0  0  0.00  44.  996.  2 NAD-SFC NoSubs
10  8 27 239 13  174.2  0.120  1.593  0.010  825.  100.     -1.0  0.2720  0.52  0.19  0.50  323.0  15.0  303.8  2.0  0  0.00  39.  995.  2 NAD-SFC NoSubs
10  8 27 239 14  163.2  0.182  1.615  0.010  916.  187.     -3.3  0.2930  0.52  0.19  1.00  335.0  15.0  304.9  2.0  0  0.00  35.  994.  2 NAD-SFC NoSubs
10  8 27 239 15  140.3  0.227  1.573  0.010  985.  260.     -7.4  0.2720  0.52  0.20  1.50  326.0  15.0  305.5  2.0  0  0.00  33.  994.  2 NAD-SFC NoSubs
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10	8	27	239	16	107.0	0.368	1.460	0.010	1031.	536.	-41.3	0.2720	0.52	0.21	3.10	300.0	15.0	305.4	2.0	0	0.00	35.	993.	3	NAD-SFC	NoSubs
10	8	27	239	17	64.0	0.423	1.240	0.010	1055.	659.	-104.4	0.2160	0.52	0.24	4.10	272.0	15.0	304.0	2.0	0	0.00	51.	993.	3	NAD-SFC	NoSubs
10	8	27	239	18	15.6	0.468	0.775	0.010	1055.	767.	-580.8	0.1750	0.52	0.37	5.10	269.0	15.0	300.9	2.0	0	0.00	62.	994.	3	NAD-SFC	NoSubs
10	8	27	239	19	-44.5	0.443	-9.000	-9.000	-999.	709.	173.5	0.1750	0.52	1.00	5.10	262.0	15.0	297.8	2.0	0	0.00	69.	995.	3	NAD-SFC	NoSubs
10	8	27	239	20	-50.3	0.498	-9.000	-9.000	-999.	842.	217.1	0.1750	0.52	1.00	5.70	254.0	15.0	295.6	2.0	0	0.00	73.	995.	3	NAD-SFC	NoSubs
10	8	27	239	21	-50.6	0.498	-9.000	-9.000	-999.	842.	216.1	0.1750	0.52	1.00	5.70	264.0	15.0	294.2	2.0	0	0.00	75.	995.	3	NAD-SFC	NoSubs
10	8	27	239	22	-36.1	0.353	-9.000	-9.000	-999.	520.	108.4	0.1750	0.52	1.00	4.10	259.0	15.0	293.2	2.0	0	0.00	78.	996.	3	NAD-SFC	NoSubs
10	8	27	239	23	-12.3	0.174	-9.000	-9.000	-999.	205.	37.8	0.1750	0.52	1.00	2.10	251.0	15.0	292.8	2.0	0	0.00	78.	996.	5	NAD-SFC	NoSubs
10	8	27	239	24	-1.0	0.069	-9.000	-9.000	-999.	58.	27.7	0.1950	0.52	1.00	0.50	234.0	15.0	292.5	2.0	0	0.00	78.	997.	8	NAD-SFC	NoSubs
10	8	28	240	1	-2.3	0.086	-9.000	-9.000	-999.	61.	25.1	0.2160	0.52	1.00	1.00	276.0	15.0	292.2	2.0	0	0.00	77.	997.	10	NAD-SFC	NoSubs
10	8	28	240	2	-15.2	0.282	-9.000	-9.000	-999.	360.	131.9	0.2160	0.52	1.00	3.10	282.0	15.0	292.1	2.0	0	0.00	75.	997.	10	NAD-SFC	NoSubs
10	8	28	240	3	-15.2	0.282	-9.000	-9.000	-999.	360.	131.8	0.2160	0.52	1.00	3.10	281.0	15.0	291.9	2.0	0	0.00	75.	998.	10	NAD-SFC	NoSubs
10	8	28	240	4	-15.2	0.282	-9.000	-9.000	-999.	360.	131.7	0.2160	0.52	1.00	3.10	284.0	15.0	291.8	2.0	0	0.00	74.	998.	10	NAD-SFC	NoSubs
10	8	28	240	5	-12.7	0.235	-9.000	-9.000	-999.	274.	91.2	0.2160	0.52	1.00	2.60	291.0	15.0	291.6	2.0	0	0.00	73.	998.	10	NAD-SFC	NoSubs
10	8	28	240	6	-10.1	0.188	-9.000	-9.000	-999.	196.	58.2	0.2160	0.52	0.77	2.10	287.0	15.0	291.6	2.0	0	0.00	73.	999.	10	NAD-SFC	NoSubs
10	8	28	240	7	1.3	0.157	0.167	0.005	124.	149.	-256.3	0.2720	0.52	0.36	1.50	305.0	15.0	291.6	2.0	0	0.00	73.	999.	10	NAD-SFC	NoSubs
10	8	28	240	8	13.2	0.182	0.466	0.006	272.	187.	-40.8	0.2930	0.52	0.24	1.50	331.0	15.0	291.8	2.0	0	0.00	72.	1000.	10	NAD-SFC	NoSubs
10	8	28	240	9	97.9	0.222	1.112	0.007	501.	251.	-10.0	0.2930	0.52	0.21	1.50	348.0	15.0	291.6	2.0	0	0.00	66.	1000.	5	NAD-SFC	NoSubs
10	8	28	240	10	135.3	-9.000	-9.000	-9.000	651.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	293.0	2.0	0	0.00	61.	1000.	3	NAD-SFC	NoSubs
10	8	28	240	11	158.4	-9.000	-9.000	-9.000	779.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.4	2.0	0	0.00	56.	999.	3	NAD-SFC	NoSubs
10	8	28	240	12	170.1	-9.000	-9.000	-9.000	896.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.8	2.0	0	0.00	50.	998.	3	NAD-SFC	NoSubs
10	8	28	240	13	170.4	-9.000	-9.000	-9.000	1014.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.0	2.0	0	0.00	45.	997.	3	NAD-SFC	NoSubs
10	8	28	240	14	159.1	0.182	1.719	0.009	1136.	186.	-3.4	0.2930	0.52	0.19	1.00	354.0	15.0	297.8	2.0	0	0.00	40.	996.	3	NAD-SFC	NoSubs
10	8	28	240	15	136.2	0.288	1.676	0.010	1231.	372.	-15.7	0.2930	0.52	0.20	2.10	354.0	15.0	298.2	2.0	0	0.00	39.	996.	3	NAD-SFC	NoSubs
10	8	28	240	16	102.5	0.327	1.551	0.011	1296.	448.	-30.3	0.2940	0.52	0.21	2.60	12.0	15.0	297.8	2.0	0	0.00	42.	996.	3	NAD-SFC	NoSubs
10	8	28	240	17	60.1	0.313	1.311	0.011	1333.	420.	-45.2	0.2940	0.52	0.24	2.60	9.0	15.0	297.6	2.0	0	0.00	46.	996.	3	NAD-SFC	NoSubs
10	8	28	240	18	13.0	0.331	0.788	0.011	1339.	457.	-248.1	0.2940	0.52	0.37	3.10	9.0	15.0	297.0	2.0	0	0.00	54.	996.	3	NAD-SFC	NoSubs
10	8	28	240	19	-35.9	0.355	-9.000	-9.000	-999.	507.	110.3	0.2930	0.52	1.00	3.60	354.0	15.0	295.8	2.0	0	0.00	58.	997.	3	NAD-SFC	NoSubs
10	8	28	240	20	-40.5	0.397	-9.000	-9.000	-999.	601.	137.5	0.2720	0.52	1.00	4.10	328.0	15.0	293.8	2.0	0	0.00	64.	997.	3	NAD-SFC	NoSubs
10	8	28	240	21	-35.6	0.347	-9.000	-9.000	-999.	492.	104.2	0.2720	0.52	1.00	3.60	310.0	15.0	291.9	2.0	0	0.00	73.	998.	3	NAD-SFC	NoSubs
10	8	28	240	22	-34.5	0.347	-9.000	-9.000	-999.	491.	107.9	0.2720	0.52	1.00	3.60	302.0	15.0	290.8	2.0	0	0.00	79.	999.	4	NAD-SFC	NoSubs
10	8	28	240	23	-32.5	0.326	-9.000	-9.000	-999.	446.	94.7	0.2160	0.52	1.00	3.60	293.0	15.0	290.0	2.0	0	0.00	82.	999.	4	NAD-SFC	NoSubs
10	8	28	240	24	-32.6	0.326	-9.000	-9.000	-999.	446.	94.4	0.2160	0.52	1.00	3.60	286.0	15.0	289.2	2.0	0	0.00	84.	999.	4	NAD-SFC	NoSubs
10	8	29	241	1	-26.6	0.279	-9.000	-9.000	-999.	354.	72.6	0.2160	0.52	1.00	3.10	293.0	15.0	288.5	2.0	0	0.00	86.	1000.	5	NAD-SFC	NoSubs
10	8	29	241	2	-15.4	0.282	-9.000	-9.000	-999.	360.	129.9	0.2160	0.52	1.00	3.10	283.0	15.0	288.0	2.0	0	0.00	87.	1000.	10	NAD-SFC	NoSubs
10	8	29	241	3	-15.4	0.282	-9.000	-9.000	-999.	360.	129.8	0.2160	0.52	1.00	3.10	273.0	15.0	287.8	2.0	0	0.00	87.	1000.	10	NAD-SFC	NoSubs
10	8	29	241	4	-15.4	0.282	-9.000	-9.000	-999.	360.	129.8	0.2160	0.52	1.00	3.10	274.0	15.0	287.8	2.0	0	0.00	85.	1000.	10	NAD-SFC	NoSubs
10	8	29	241	5	-12.2	0.223	-9.000	-9.000	-999.	253.	80.8	0.1750	0.52	1.00	2.60	267.0	15.0	288.0	2.0	0	0.00	83.	1000.	10	NAD-SFC	NoSubs
10	8	29	241	6	-10.3	0.188	-9.000	-9.000	-999.	195.	57.5	0.2160	0.52	1.00	2.10	270.0	15.0	288.1	2.0	0	0.00	82.	1001.	10	NAD-SFC	NoSubs
10	8	29	241	7	0.3	0.199	0.051	0.005	17.	213.	-2592.1	0.2160	0.52	0.37	2.10	280.0	15.0	288.2	2.0	0	0.00	82.	1001.	10	NAD-SFC	NoSubs
10	8	29	241	8	12.2	0.278	0.403	0.005	191.	352.	-157.1	0.2720	0.52	0.24	2.60	304.0	15.0	288.5	2.0	0	0.00	79.	1002.	10	NAD-SFC	NoSubs
10	8	29	241	9	96.8	0.110	1.092	0.005	481.	115.	-1.2	0.2720	0.52	0.21	0.50	318.0	15.0	289.6	2.0	0	0.00	73.	1002.	5	NAD-SFC	NoSubs
10	8	29	241	10	128.2	-9.000	-9.000	-9.000	648.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	290.2	2.0	0	0.00	70.	1002.	5	NAD-SFC	NoSubs
10	8	29	241	11	154.7	-9.000	-9.000	-9.000	873.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	290.8	2.0	0	0.00	68.	1002.	4	NAD-SFC	NoSubs
10	8	29	241	12	166.1	-9.000	-9.000	-9.000	1044.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	292.0	2.0	0	0.00	63.	1001.	4	NAD-SFC	NoSubs
10	8	29	241	13	166.3	-9.000	-9.000	-9.000	1171.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	293.6	2.0	0	0.00	56.	1000.	4	NAD-SFC	NoSubs
10	8	29	241	14	155.2	0.120	1.772	0.007	1279.	100.	-1.0	0.2930	0.52	0.19	0.50	337.0	15.0	294.8	2.0	0	0.00	50.	999.	4	NAD-SFC	NoSubs
10	8	29	241	15	132.8	0.230	1.716	0.007	1357.	264.	-8.1	0.2930	0.52	0.20	1.50	351.0	15.0	295.5	2.0	0	0.00	47.	999.	4	NAD-SFC	NoSubs
10	8	29	241	16	100.0	0.372	1.578	0.007	1400.	545.	-45.9	0.2930	0.52	0.21	3.10	346.0	15.0	295.8	2.0	0	0.00	46.	998.	4	NAD-SFC	NoSubs
10	8	29	241	17	58.4	-9.000	-9.000	-9.000	1424.	-999.	-99999.0	0.2235	0.52	0.25	0.00	0.0	15.0	295.5	2.0	0	0.00	51.	998.	4	NAD-SFC	NoSubs
10	8	29	241	18	11.2	0.329	0.765	0.007	1427.	454.	-284.9	0.2940	0.52	0.38	3.10	23.0	15.0	294.8	2.0	0	0.00	60.	998.	3	NAD-SFC	NoSubs
10	8	29	241	19	-34.5	0.338	-9.000	-9.000	-999.	471.	99.2	0.2470	0.52	1.00	3.60	30.0	15.0	293.5	2.0	0	0.00	66.	999.	3	NAD-SFC	NoSubs
10	8	29	241	20	-21.7	0.229	-9.000	-9.000	-999.	269.	49.2	0.2090	0.52	1.00	2.60	64.0	15.0	292.8	2.0	0	0.00	68.	999.	3	NAD-SFC	NoSubs
10	8	29	241	21	-14.0	0.182	-9.000	-9.000	-999.	188.	38.6	0.2130	0.52	1.00	2.10	108.0	15.0	291.8	2.0	0	0.00	71.	999.	3	NAD-SFC	NoSubs
10	8	29	241	22	-21.2	0.225	-9.000	-9.000	-999.	256.	48.0	0.1970	0.52	1.00	2.60	143.0	15.0	291.0	2.0	0	0.00	73.	1000.	3	NAD-SFC	NoSubs
10	8	29	241	23	-28.1	0.271	-9.000	-9.000	-999.	339.	63.5	0.1970	0.52	1.00	3.10	142.0	15.0	290.4	2.0	0	0.00	75.	1000.	3	NAD-SFC	NoSubs
10	8	29	241	24	-21.2	0.225	-9.000	-9.000	-999.	257.	47.9	0.1970	0.52	1.00	2.60	145.0	15.0	289.8	2.0	0	0.00	77.	1000.	3	NAD-SFC	NoSubs
10	8	30	242	1	-13.2	0.175	-9.000	-9.000	-999.	176.	36.1	0.1810	0.52	1.00	2.10	159.0	15.0	289.0	2.0	0	0.00	79.	1000.	3	NAD-SFC	NoSubs
10	8	30	242	2	-3.4	0.094	-9.000	-9.000	-999.	71.	21.8	0.1810	0.52	1.00	1.00	169.0	15.0	288.5	2.0	0	0.00	81.	1000.	3	NAD-SFC	NoSubs
10	8	30	242	3	-1.4	0.079	-9.000	-9.000	-999.	54.	31.0	0.1900	0.52	1.00	0.50	188.0	15.0	287.9	2.0	0	0.00	82.	1000.	3	NAD-SFC	NoSubs
10	8	30	242	4	-3.3	0.093	-9.000	-9.000	-999.	68.	21.7	0.1750	0.52	1.00	1.00	266.0	15.0	287.4	2.0	0	0.00	83.	1001.	3	NAD-SFC	NoSubs
10	8	30	242	5	-3.6	0.096	-9.000	-9.000	-999.	72.	22.4	0.2160	0.52	1.00	1.00	299.0	15.0	286.8	2.0	0	0.00	84.	1001.	3	NAD-SFC	NoSubs
10	8	30	242	6	-3.6	0.097	-9.000	-9.000	-999.	72.	22.4	0.2160	0.52	1.00	1.00	288.0	15.0	286.2	2.0	0	0.00	85.	1002.	3	NAD-SFC	NoSubs
10	8	30	242	7	10.5	0.131	0.262	0.006	61.	113.	-19.0	0.2720	0.52	0.37	1.00	320.0	15.0	287.2	2.0	0	0.00	79.	1003.	3	NAD-SFC	NoSubs
10	8	30	242	8	57.9	0.103	0.681	0.005	195.	79.	-1.7	0.2720	0.52	0.24	0.50	317.0	15.0	289.2	2.0	0	0.00	71.	1003.	3	NAD-SFC	NoSubs
10	8	30	242	9	100.6	-9.000	-9.000	-9.000	420.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	291.2	2.0	0	0.00	64.	1003.	3	NAD-SFC	NoSubs
10	8	30	242	10	134.2	-9.000	-9.000	-9.000	719.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	292.9	2.0	0	0.00	57.	1003.	3	NAD-SFC	NoSubs
10	8	30	242	11	157.4	-9.000	-9.000	-9.000	990.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.5	2.0	0	0.00	50.	1003.	2	NAD-SFC	NoSubs
10	8	30	242	12	169.1	0.119	1.757	0.007	1147.	99.	-1.0	0.2720	0.52	0.19	0.50	303.0	15.0	295.8	2.0	0	0.00	45.	1002.	2	NAD-SFC	NoSubs
10	8	30	242	13	169.2	0.180	1.826	0.008	1287.	183.	-3.1	0.2720	0.52	0.19	1.00	322.0	15.0	297.0	2.0	0	0.00	40.	1001.	3	NAD-SFC	NoSubs
10	8	30	242	14	157.7	0.293	1.822	0.008	1373.	380.	-14.2	0.2930	0.52	0.19	2.10	332.0	15.0	297.9	2.0	0	0.00	37.	1001.	3	NAD-SFC	NoSubs
10	8	30	242	15	134.3	0.381	1.748	0.008	1421.	564.	-36.6	0.2930	0.52	0.20	3.10	337.0	15.0	298.2	2.0	0	0.00	35.	1000.	2	NAD-SFC	NoSubs
10	8	30	242	16	100.3	0.464	1.599	0.008	1456.	757.	-88.6	0.2930	0.52	0.21	4.10	347.0	15.0	298.2	2.0	0	0.00	35.	1000.	2	NAD-SFC	NoSubs
10	8	30	242	17	57.2	0.311	1.332	0.008	1475.	434.	-47.0	0.2930	0.52	0.25	2.60	354.0	15.0	297.8	2.0	0	0.00	46.	1000.	2	NAD-SFC	NoSubs
10	8	30	242	18	9.5	0.376	0.733	0.008	1476.	552.	-497.1	0.2930	0.52	0.38	3.60	357.0	15.0	296.8	2.0	0	0.00	49.	1000.	2	NAD-SFC	NoSubs
10	8	30	242	19	-37.0	0.354	-9.000	-9.000	-999.	507.	107.5	0.2930	0.52	1.00	3.60	342.0	15.0	295.9	2.0	0	0.00	50.	1001.	2	NAD-SFC	NoSubs
10	8	30	242	20	-37.1	0.354	-9.000	-9.000	-999.	506.	107.0	0.2930	0.52	1.00	3.60	330.0	15.0	294.8	2.0	0	0.00	53.	1001.	2	NAD-SFC	NoSubs

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10  8 30 242 21  -31.2  0.296 -9.000 -9.000 -999.  389.     74.6  0.2720  0.52  1.00  3.10  328.0  15.0  293.8  2.0  0  0.00  56.  1001.  2 NAD-SFC NoSubs
10  8 30 242 22  -24.5  0.246 -9.000 -9.000 -999.  294.     54.4  0.2720  0.52  1.00  2.60  319.0  15.0  292.8  2.0  0  0.00  60.  1002.  3 NAD-SFC NoSubs
10  8 30 242 23  -15.7  0.196 -9.000 -9.000 -999.  208.     42.4  0.2720  0.52  1.00  2.10  307.0  15.0  291.6  2.0  0  0.00  64.  1002.  3 NAD-SFC NoSubs
10  8 30 242 24  -24.6  0.246 -9.000 -9.000 -999.  293.     54.2  0.2720  0.52  1.00  2.60  328.0  15.0  290.8  2.0  0  0.00  70.  1003.  3 NAD-SFC NoSubs
10  8 31 243  1   -8.2  0.140 -9.000 -9.000 -999.  131.     29.8  0.2930  0.52  1.00  1.50  338.0  15.0  290.1  2.0  0  0.00  76.  1003.  3 NAD-SFC NoSubs
10  8 31 243  2   -1.6  0.083 -9.000 -9.000 -999.   59.     31.8  0.2940  0.52  1.00  0.50   23.0  15.0  289.5  2.0  0  0.00  80.  1003.  3 NAD-SFC NoSubs
10  8 31 243  3   -1.5  0.082 -9.000 -9.000 -999.   56.     31.5  0.2470  0.52  1.00  0.50   54.0  15.0  289.2  2.0  0  0.00  83.  1004.  3 NAD-SFC NoSubs
10  8 31 243  4   -1.6  0.082 -9.000 -9.000 -999.   56.     31.5  0.2470  0.52  1.00  0.50   41.0  15.0  288.8  2.0  0  0.00  86.  1004.  3 NAD-SFC NoSubs
10  8 31 243  5   -1.6  0.084 -9.000 -9.000 -999.   58.     31.9  0.2930  0.52  1.00  0.50  358.0  15.0  288.2  2.0  0  0.00  90.  1004.  3 NAD-SFC NoSubs
10  8 31 243  6   -1.5  0.081 -9.000 -9.000 -999.   55.     31.3  0.2160  0.52  1.00  0.50  283.0  15.0  287.8  2.0  0  0.00  93.  1004.  3 NAD-SFC NoSubs
10  8 31 243  7   10.3  0.082  0.290  0.005   85.   57.     -4.8  0.2720  0.52  0.37  0.50  322.0  15.0  288.2  2.0  0  0.00  91.  1005.  3 NAD-SFC NoSubs
10  8 31 243  8   57.4 -9.000 -9.000 -9.000  352. -999. -99999.0  0.2235  0.52  0.24  0.00    0.0  15.0  289.4  2.0  0  0.00  87.  1005.  3 NAD-SFC NoSubs
10  8 31 243  9   99.2 -9.000 -9.000 -9.000  528. -999. -99999.0  0.2235  0.52  0.21  0.00    0.0  15.0  290.2  2.0  0  0.00  82.  1005.  2 NAD-SFC NoSubs
10  8 31 243 10  133.3 -9.000 -9.000 -9.000  697. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  292.1  2.0  0  0.00  73.  1004.  2 NAD-SFC NoSubs
10  8 31 243 11  156.8 -9.000 -9.000 -9.000  849. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  294.2  2.0  0  0.00  63.  1004.  2 NAD-SFC NoSubs
10  8 31 243 12  168.7 -9.000 -9.000 -9.000  985. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  296.1  2.0  0  0.00  55.  1002.  2 NAD-SFC NoSubs
10  8 31 243 13  168.9  0.119  1.720  0.010 1078.   99.     -1.0  0.2720  0.52  0.19  0.50  328.0  15.0  297.6  2.0  0  0.00  49.  1002.  2 NAD-SFC NoSubs
10  8 31 243 14  157.3  0.234  1.721  0.011 1158.  272.     -7.3  0.2930  0.52  0.19  1.50  340.0  15.0  298.8  2.0  0  0.00  45.  1001.  2 NAD-SFC NoSubs
10  8 31 243 15  134.0  0.288  1.662  0.012 1223.  371.    -15.9  0.2930  0.52  0.20  2.10  354.0  15.0  299.4  2.0  0  0.00  43.  1000.  2 NAD-SFC NoSubs
10  8 31 243 16  100.0  0.326  1.525  0.012 1268.  446.    -30.8  0.2930  0.52  0.21  2.60  346.0  15.0  299.6  2.0  0  0.00  42.  1000.  2 NAD-SFC NoSubs
10  8 31 243 17   56.7  0.265  1.271  0.013 1292.  329.    -29.3  0.2940  0.52  0.25  2.10    8.0  15.0  299.2  2.0  0  0.00  49.  1000.  2 NAD-SFC NoSubs
10  8 31 243 18    9.3  0.233  0.697  0.013 1295.  270.   -120.6  0.2940  0.52  0.39  2.10   17.0  15.0  298.8  2.0  0  0.00  51.  1000.  2 NAD-SFC NoSubs
10  8 31 243 19   -7.5  0.133 -9.000 -9.000 -999.  121.     28.0  0.2470  0.52  1.00  1.50   35.0  15.0  297.6  2.0  0  0.00  54.  1001.  2 NAD-SFC NoSubs
10  8 31 243 20   -1.5  0.080 -9.000 -9.000 -999.   55.     31.2  0.2090  0.52  1.00  0.50   71.0  15.0  296.2  2.0  0  0.00  59.  1001.  2 NAD-SFC NoSubs
10  8 31 243 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  294.8  2.0  0  0.00  65.  1001.  2 NAD-SFC NoSubs
10  8 31 243 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  293.2  2.0  0  0.00  72.  1001.  2 NAD-SFC NoSubs
10  8 31 243 23   -1.5  0.081 -9.000 -9.000 -999.   55.     31.3  0.2090  0.52  1.00  0.50   86.0  15.0  292.1  2.0  0  0.00  77.  1001.  2 NAD-SFC NoSubs
10  8 31 243 24   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.2130  0.52  1.00  0.50   90.0  15.0  291.2  2.0  0  0.00  81.  1001.  2 NAD-SFC NoSubs
10  9  1 244  1   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.2130  0.52  1.00  0.50  110.0  15.0  290.4  2.0  0  0.00  84.  1001.  2 NAD-SFC NoSubs
10  9  1 244  2   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.2130  0.52  1.00  0.50  114.0  15.0  289.8  2.0  0  0.00  86.  1001.  2 NAD-SFC NoSubs
10  9  1 244  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  289.2  2.0  0  0.00  86.  1001.  2 NAD-SFC NoSubs
10  9  1 244  4   -3.6  0.097 -9.000 -9.000 -999.   72.     22.4  0.2160  0.52  1.00  1.00  278.0  15.0  289.0  2.0  0  0.00  85.  1001.  2 NAD-SFC NoSubs
10  9  1 244  5   -7.2  0.129 -9.000 -9.000 -999.  111.     26.4  0.2160  0.52  1.00  1.50  294.0  15.0  288.6  2.0  0  0.00  84.  1001.  2 NAD-SFC NoSubs
10  9  1 244  6   -7.2  0.129 -9.000 -9.000 -999.  111.     26.4  0.2160  0.52  1.00  1.50  278.0  15.0  288.2  2.0  0  0.00  85.  1001.  2 NAD-SFC NoSubs
10  9  1 244  7    8.6  0.122  0.212  0.009   39.  102.    -18.9  0.2160  0.52  0.37  1.00  284.0  15.0  289.0  2.0  0  0.00  82.  1002.  2 NAD-SFC NoSubs
10  9  1 244  8   56.6  0.097  0.615  0.008  147.   73.     -1.5  0.2160  0.52  0.24  0.50  286.0  15.0  291.8  2.0  0  0.00  69.  1002.  2 NAD-SFC NoSubs
10  9  1 244  9   99.9 -9.000 -9.000 -9.000  318. -999. -99999.0  0.2235  0.52  0.21  0.00    0.0  15.0  294.1  2.0  0  0.00  61.  1001.  2 NAD-SFC NoSubs
10  9  1 244 10  134.1 -9.000 -9.000 -9.000  527. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  296.2  2.0  0  0.00  53.  1001.  2 NAD-SFC NoSubs
10  9  1 244 11  157.7 -9.000 -9.000 -9.000  690. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  298.1  2.0  0  0.00  48.  1000.  2 NAD-SFC NoSubs
10  9  1 244 12  169.7 -9.000 -9.000 -9.000  776. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  300.1  2.0  0  0.00  42.  999.  2 NAD-SFC NoSubs
10  9  1 244 13  170.0 -9.000 -9.000 -9.000  855. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.8  2.0  0  0.00  35.  998.  2 NAD-SFC NoSubs
10  9  1 244 14  158.5  0.120  1.601  0.010  922.  100.     -1.0  0.2930  0.52  0.19  0.50  353.0  15.0  303.0  2.0  0  0.00  32.  998.  2 NAD-SFC NoSubs
10  9  1 244 15  135.2  0.179  1.548  0.010  976.  181.     -3.7  0.2940  0.52  0.20  1.00    8.0  15.0  303.6  2.0  0  0.00  32.  997.  2 NAD-SFC NoSubs
10  9  1 244 16  101.0  0.280  1.424  0.010 1017.  356.    -19.4  0.2940  0.52  0.21  2.10    8.0  15.0  303.8  2.0  0  0.00  33.  997.  2 NAD-SFC NoSubs
10  9  1 244 17   57.5  0.265  1.188  0.009 1039.  328.    -28.9  0.2940  0.52  0.25  2.10   18.0  15.0  303.0  2.0  0  0.00  43.  997.  2 NAD-SFC NoSubs
10  9  1 244 18    9.9  0.328  0.661  0.009 1041.  451.   -318.4  0.2940  0.52  0.39  3.10   21.0  15.0  302.1  2.0  0  0.00  46.  997.  2 NAD-SFC NoSubs
10  9  1 244 19  -14.9  0.190 -9.000 -9.000 -999.  211.     40.9  0.2470  0.52  1.00  2.10   32.0  15.0  300.6  2.0  0  0.00  50.  997.  2 NAD-SFC NoSubs
10  9  1 244 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  299.0  2.0  0  0.00  55.  997.  2 NAD-SFC NoSubs
10  9  1 244 21   -1.4  0.079 -9.000 -9.000 -999.   54.     31.0  0.1950  0.52  1.00  0.50  239.0  15.0  297.2  2.0  0  0.00  63.  997.  2 NAD-SFC NoSubs
10  9  1 244 22   -3.5  0.096 -9.000 -9.000 -999.   72.     22.4  0.2160  0.52  1.00  1.00  283.0  15.0  295.9  2.0  0  0.00  67.  997.  2 NAD-SFC NoSubs
10  9  1 244 23   -7.9  0.137 -9.000 -9.000 -999.  121.     28.9  0.2720  0.52  1.00  1.50  312.0  15.0  294.9  2.0  0  0.00  70.  997.  2 NAD-SFC NoSubs
10  9  1 244 24   -8.2  0.140 -9.000 -9.000 -999.  125.     29.6  0.2930  0.52  1.00  1.50  336.0  15.0  294.1  2.0  0  0.00  71.  997.  2 NAD-SFC NoSubs
10  9  2 245  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  293.4  2.0  0  0.00  73.  998.  2 NAD-SFC NoSubs
10  9  2 245  2   -1.6  0.082 -9.000 -9.000 -999.   56.     31.6  0.2470  0.52  1.00  0.50   30.0  15.0  292.8  2.0  0  0.00  75.  998.  2 NAD-SFC NoSubs
10  9  2 245  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  292.2  2.0  0  0.00  77.  998.  2 NAD-SFC NoSubs
10  9  2 245  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  291.5  2.0  0  0.00  79.  998.  2 NAD-SFC NoSubs
10  9  2 245  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  291.0  2.0  0  0.00  80.  999.  2 NAD-SFC NoSubs
10  9  2 245  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  290.6  2.0  0  0.00  80.  999.  2 NAD-SFC NoSubs
10  9  2 245  7    8.6  0.081  0.201  0.014   34.   55.     -5.4  0.2720  0.52  0.38  0.50  305.0  15.0  290.9  2.0  0  0.00  78.  999.  2 NAD-SFC NoSubs
10  9  2 245  8   56.9  0.206  0.600  0.010  135.  224.    -13.6  0.2720  0.52  0.25  1.50  300.0  15.0  294.2  2.0  0  0.00  62.  999.  2 NAD-SFC NoSubs
10  9  2 245  9  100.2  0.219  0.919  0.010  276.  246.     -9.3  0.2720  0.52  0.21  1.50  304.0  15.0  296.5  2.0  0  0.00  57.  999.  2 NAD-SFC NoSubs
10  9  2 245 10  134.8  0.110  1.185  0.010  440.   94.     -1.0  0.2160  0.52  0.20  0.50  297.0  15.0  299.1  2.0  0  0.00  49.  999.  2 NAD-SFC NoSubs
10  9  2 245 11  158.7  0.118  1.391  0.010  606.   98.     -1.0  0.2720  0.52  0.19  0.50  304.0  15.0  301.8  2.0  0  0.00  38.  999.  2 NAD-SFC NoSubs
10  9  2 245 12  170.7  0.119  1.511  0.009  721.   99.     -1.0  0.2720  0.52  0.19  0.50  326.0  15.0  303.4  2.0  0  0.00  33.  998.  2 NAD-SFC NoSubs
10  9  2 245 13  170.8 -9.000 -9.000 -9.000  809. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  304.8  2.0  0  0.00  31.  997.  2 NAD-SFC NoSubs
10  9  2 245 14  159.2  0.235  1.581  0.008  883.  273.     -7.2  0.2940  0.52  0.19  1.50   24.0  15.0  305.8  2.0  0  0.00  30.  997.  2 NAD-SFC NoSubs
10  9  2 245 15  135.6  0.335  1.531  0.007  942.  466.    -24.7  0.2940  0.52  0.20  2.60   24.0  15.0  306.1  2.0  0  0.00  31.  997.  2 NAD-SFC NoSubs
10  9  2 245 16  101.4  0.359  1.413  0.006  989.  516.    -40.5  0.2470  0.52  0.21  3.10   32.0  15.0  306.2  2.0  0  0.00  35.  996.  2 NAD-SFC NoSubs
10  9  2 245 17   57.7  0.344  1.184  0.006 1022.  484.    -62.6  0.2470  0.52  0.25  3.10   33.0  15.0  305.4  2.0  0  0.00  45.  996.  2 NAD-SFC NoSubs
10  9  2 245 18   10.2  0.315  0.665  0.006 1026.  425.   -273.7  0.2470  0.52  0.40  3.10   31.0  15.0  304.8  2.0  0  0.00  46.  997.  2 NAD-SFC NoSubs
10  9  2 245 19  -16.2  0.200 -9.000 -9.000 -999.  222.     44.2  0.2940  0.52  1.00  2.10   18.0  15.0  303.5  2.0  0  0.00  46.  997.  2 NAD-SFC NoSubs
10  9  2 245 20  -21.9  0.231 -9.000 -9.000 -999.  266.     50.0  0.2160  0.52  1.00  2.60  276.0  15.0  302.2  2.0  0  0.00  50.  997.  2 NAD-SFC NoSubs
10  9  2 245 21  -48.1  0.468 -9.000 -9.000 -999.  767.    189.0  0.2160  0.52  1.00  5.10  276.0  15.0  299.0  2.0  0  0.00  61.  998.  2 NAD-SFC NoSubs
10  9  2 245 22  -38.6  0.373 -9.000 -9.000 -999.  553.    119.1  0.2160  0.52  1.00  4.10  279.0  15.0  296.9  2.0  0  0.00  66.  998.  2 NAD-SFC NoSubs
10  9  2 245 23  -30.9  0.297 -9.000 -9.000 -999.  391.     75.3  0.2720  0.52  1.00  3.10  305.0  15.0  296.1  2.0  0  0.00  66.  999.  2 NAD-SFC NoSubs
10  9  2 245 24  -15.8  0.195 -9.000 -9.000 -999.  212.     42.1  0.2720  0.52  1.00  2.10  327.0  15.0  295.8  2.0  0  0.00  65.  999.  2 NAD-SFC NoSubs
10  9  3 246  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  295.2  2.0  0  0.00  66. 1000.  2 NAD-SFC NoSubs
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10  9  3 246  2   -1.6  0.084 -9.000 -9.000 -999.    58.     31.9  0.2940  0.52  1.00  0.50  18.0  15.0 294.9  2.0   0  0.00   66.  1000.    2 NAD-SFC NoSubs
10  9  3 246  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00   0.0  15.0 294.6  2.0   0  0.00   66.  1000.    2 NAD-SFC NoSubs
10  9  3 246  4   -1.5  0.080 -9.000 -9.000 -999.    54.     31.1  0.1950  0.52  1.00  0.50 239.0  15.0 294.2  2.0   0  0.00   67.  1001.    2 NAD-SFC NoSubs
10  9  3 246  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00   0.0  15.0 293.6  2.0   0  0.00   70.  1001.    2 NAD-SFC NoSubs
10  9  3 246  6   -1.5  0.080 -9.000 -9.000 -999.    55.     31.3  0.2090  0.52  1.00  0.50  83.0  15.0 293.0  2.0   0  0.00   74.  1002.    2 NAD-SFC NoSubs
10  9  3 246  7    8.7 -9.000 -9.000 -9.000   51. -999. -99999.0  0.2235  0.52  0.38  0.00   0.0  15.0 293.1  2.0   0  0.00   76.  1002.    2 NAD-SFC NoSubs
10  9  3 246  8   56.8 -9.000 -9.000 -9.000  181. -999. -99999.0  0.2235  0.52  0.25  0.00   0.0  15.0 295.8  2.0   0  0.00   65.  1002.    2 NAD-SFC NoSubs
10  9  3 246  9  100.3 -9.000 -9.000 -9.000  341. -999. -99999.0  0.2235  0.52  0.21  0.00   0.0  15.0 298.0  2.0   0  0.00   58.  1001.    2 NAD-SFC NoSubs
10  9  3 246 10  134.6 -9.000 -9.000 -9.000  495. -999. -99999.0  0.2235  0.52  0.20  0.00   0.0  15.0 299.9  2.0   0  0.00   52.  1001.    2 NAD-SFC NoSubs
10  9  3 246 11  158.0 -9.000 -9.000 -9.000  634. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 301.5  2.0   0  0.00   48.  1001.    2 NAD-SFC NoSubs
10  9  3 246 12  169.9 -9.000 -9.000 -9.000  749. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 303.2  2.0   0  0.00   43.  1000.    2 NAD-SFC NoSubs
10  9  3 246 13  170.1 -9.000 -9.000 -9.000  848. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 304.8  2.0   0  0.00   38.   999.    2 NAD-SFC NoSubs
10  9  3 246 14  158.5  0.120  1.606  0.011  931.  100.     -1.0  0.2930  0.52  0.19  0.50 335.0  15.0 305.9  2.0   0  0.00   35.   998.    2 NAD-SFC NoSubs
10  9  3 246 15  135.0  0.230  1.554  0.010  992.  265.     -8.0  0.2930  0.52  0.20  1.50 346.0  15.0 306.5  2.0   0  0.00   34.   998.    2 NAD-SFC NoSubs
10  9  3 246 16  100.5 -9.000 -9.000 -9.000 1029. -999. -99999.0  0.2235  0.52  0.21  0.00   0.0  15.0 306.4  2.0   0  0.00   36.   998.    2 NAD-SFC NoSubs
10  9  3 246 17   56.7  0.265  1.187  0.010 1049.  328.    -29.2  0.2940  0.52  0.25  2.10   6.0  15.0 305.8  2.0   0  0.00   46.   997.    2 NAD-SFC NoSubs
10  9  3 246 18    9.3  0.280  0.651  0.010 1051.  355.   -208.8  0.2940  0.52  0.40  2.60  16.0  15.0 305.0  2.0   0  0.00   49.   998.    2 NAD-SFC NoSubs
10  9  3 246 19   -8.1  0.140 -9.000 -9.000 -999.  139.     30.2  0.2940  0.52  1.00  1.50  15.0  15.0 303.6  2.0   0  0.00   52.   998.    2 NAD-SFC NoSubs
10  9  3 246 20  -14.0  0.183 -9.000 -9.000 -999.  188.     39.0  0.2160  0.52  1.00  2.10 282.0  15.0 302.4  2.0   0  0.00   56.   998.    2 NAD-SFC NoSubs
10  9  3 246 21  -48.2  0.468 -9.000 -9.000 -999.  768.    189.2  0.2160  0.52  1.00  5.10 282.0  15.0 299.2  2.0   0  0.00   65.   999.    2 NAD-SFC NoSubs
10  9  3 246 22  -43.6  0.420 -9.000 -9.000 -999.  655.    151.3  0.2160  0.52  1.00  4.60 280.0  15.0 296.8  2.0   0  0.00   69.   999.    2 NAD-SFC NoSubs
10  9  3 246 23  -33.9  0.325 -9.000 -9.000 -999.  451.     90.5  0.2160  0.52  1.00  3.60 278.0  15.0 295.8  2.0   0  0.00   70.  1000.    2 NAD-SFC NoSubs
10  9  3 246 24  -31.0  0.297 -9.000 -9.000 -999.  388.     75.0  0.2720  0.52  1.00  3.10 323.0  15.0 295.1  2.0   0  0.00   71.  1000.    2 NAD-SFC NoSubs
10  9  4 247  1  -31.7  0.303 -9.000 -9.000 -999.  400.     78.3  0.2930  0.52  1.00  3.10 333.0  15.0 294.8  2.0   0  0.00   72.  1000.    2 NAD-SFC NoSubs
10  9  4 247  2  -16.4  0.200 -9.000 -9.000 -999.  220.     43.3  0.2930  0.52  1.00  2.10 332.0  15.0 294.5  2.0   0  0.00   72.  1001.    2 NAD-SFC NoSubs
10  9  4 247  3   -8.2  0.140 -9.000 -9.000 -999.  126.     29.7  0.2930  0.52  1.00  1.50 332.0  15.0 294.2  2.0   0  0.00   74.  1001.    2 NAD-SFC NoSubs
10  9  4 247  4   -1.6  0.084 -9.000 -9.000 -999.   59.     31.9  0.2930  0.52  1.00  0.50 341.0  15.0 293.9  2.0   0  0.00   76.  1001.    2 NAD-SFC NoSubs
10  9  4 247  5   -1.6  0.084 -9.000 -9.000 -999.   58.     31.9  0.2930  0.52  1.00  0.50 354.0  15.0 293.5  2.0   0  0.00   79.  1001.    2 NAD-SFC NoSubs
10  9  4 247  6   -1.6  0.084 -9.000 -9.000 -999.   58.     31.9  0.2930  0.52  1.00  0.50 337.0  15.0 293.0  2.0   0  0.00   82.  1001.    2 NAD-SFC NoSubs
10  9  4 247  7    8.2  0.130  0.268  0.011   83.  112.    -23.7  0.2930  0.52  0.38  1.00 346.0  15.0 293.2  2.0   0  0.00   82.  1001.    2 NAD-SFC NoSubs
10  9  4 247  8   55.9  0.104  0.722  0.011  240.   81.     -1.8  0.2930  0.52  0.25  0.50 349.0  15.0 294.5  2.0   0  0.00   74.  1001.    2 NAD-SFC NoSubs
10  9  4 247  9   99.2 -9.000 -9.000 -9.000  329. -999. -99999.0  0.2235  0.52  0.21  0.00   0.0  15.0 296.8  2.0   0  0.00   65.  1001.    2 NAD-SFC NoSubs
10  9  4 247 10  133.4 -9.000 -9.000 -9.000  446. -999. -99999.0  0.2235  0.52  0.20  0.00   0.0  15.0 298.4  2.0   0  0.00   60.  1000.    2 NAD-SFC NoSubs
10  9  4 247 11  156.8 -9.000 -9.000 -9.000  597. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 300.2  2.0   0  0.00   55.  1000.    2 NAD-SFC NoSubs
10  9  4 247 12  168.8 -9.000 -9.000 -9.000  732. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 302.1  2.0   0  0.00   49.   999.    2 NAD-SFC NoSubs
10  9  4 247 13  168.6  0.119  1.591  0.010  851.   99.     -1.0  0.2720  0.52  0.19  0.50 321.0  15.0 303.2  2.0   0  0.00   46.   998.    2 NAD-SFC NoSubs
10  9  4 247 14  156.8  0.181  1.611  0.010  949.  185.     -3.4  0.2930  0.52  0.19  1.00 335.0  15.0 304.2  2.0   0  0.00   44.   997.    2 NAD-SFC NoSubs
10  9  4 247 15  133.2  0.230  1.557  0.010 1010.  264.     -8.1  0.2930  0.52  0.20  1.50 355.0  15.0 304.9  2.0   0  0.00   42.   997.    2 NAD-SFC NoSubs
10  9  4 247 16   98.8 -9.000 -9.000 -9.000 1048. -999. -99999.0  0.2235  0.52  0.21  0.00   0.0  15.0 305.1  2.0   0  0.00   42.   996.    2 NAD-SFC NoSubs
10  9  4 247 17   55.1  0.264  1.183  0.010 1068.  326.    -29.8  0.2940  0.52  0.26  2.10  22.0  15.0 304.8  2.0   0  0.00   50.   996.    2 NAD-SFC NoSubs
10  9  4 247 18    7.8  0.267  0.618  0.010 1070.  331.   -215.5  0.2470  0.52  0.41  2.60  34.0  15.0 304.1  2.0   0  0.00   53.   996.    2 NAD-SFC NoSubs
10  9  4 247 19   -8.1  0.140 -9.000 -9.000 -999.  135.     30.1  0.2940  0.52  1.00  1.50  24.0  15.0 302.8  2.0   0  0.00   56.   996.    2 NAD-SFC NoSubs
10  9  4 247 20   -6.9  0.129 -9.000 -9.000 -999.  111.     27.2  0.2160  0.52  1.00  1.50 274.0  15.0 301.8  2.0   0  0.00   60.   996.    3 NAD-SFC NoSubs
10  9  4 247 21  -48.1  0.468 -9.000 -9.000 -999.  767.    189.0  0.2160  0.52  1.00  5.10 271.0  15.0 299.0  2.0   0  0.00   67.   997.    2 NAD-SFC NoSubs
10  9  4 247 22  -43.6  0.420 -9.000 -9.000 -999.  655.    151.0  0.2160  0.52  1.00  4.60 275.0  15.0 296.2  2.0   0  0.00   71.   997.    2 NAD-SFC NoSubs
10  9  4 247 23  -32.1  0.308 -9.000 -9.000 -999.  419.     81.0  0.1750  0.52  1.00  3.60 267.0  15.0 295.2  2.0   0  0.00   74.   997.    2 NAD-SFC NoSubs
10  9  4 247 24  -21.9  0.231 -9.000 -9.000 -999.  269.     50.0  0.2160  0.52  1.00  2.60 277.0  15.0 294.9  2.0   0  0.00   75.   997.    3 NAD-SFC NoSubs
10  9  5 248  1  -14.0  0.183 -9.000 -9.000 -999.  189.     39.0  0.2160  0.52  1.00  2.10 284.0  15.0 294.8  2.0   0  0.00   75.   996.    3 NAD-SFC NoSubs
10  9  5 248  2   -7.0  0.129 -9.000 -9.000 -999.  111.     26.9  0.2160  0.52  1.00  1.50 295.0  15.0 294.4  2.0   0  0.00   76.   996.    3 NAD-SFC NoSubs
10  9  5 248  3   -3.5  0.096 -9.000 -9.000 -999.   71.     22.4  0.2160  0.52  1.00  1.00 278.0  15.0 294.0  2.0   0  0.00   77.   996.    3 NAD-SFC NoSubs
10  9  5 248  4   -1.4  0.079 -9.000 -9.000 -999.   53.     30.9  0.1750  0.52  1.00  0.50 267.0  15.0 293.6  2.0   0  0.00   79.   996.    2 NAD-SFC NoSubs
10  9  5 248  5   -3.6  0.097 -9.000 -9.000 -999.   72.     22.4  0.2160  0.52  1.00  1.00 285.0  15.0 293.1  2.0   0  0.00   80.   996.    2 NAD-SFC NoSubs
10  9  5 248  6   -3.9  0.101 -9.000 -9.000 -999.   77.     23.3  0.2720  0.52  1.00  1.00 303.0  15.0 292.8  2.0   0  0.00   82.   996.    2 NAD-SFC NoSubs
10  9  5 248  7    7.7  0.175  0.246  0.009   69.  175.    -61.8  0.2930  0.52  0.38  1.50 332.0  15.0 293.1  2.0   0  0.00   81.   996.    2 NAD-SFC NoSubs
10  9  5 248  8   55.4  0.160  0.709  0.009  228.  153.     -6.5  0.2930  0.52  0.25  1.00 343.0  15.0 294.8  2.0   0  0.00   74.   996.    2 NAD-SFC NoSubs
10  9  5 248  9   98.7 -9.000 -9.000 -9.000  365. -999. -99999.0  0.2235  0.52  0.21  0.00   0.0  15.0 296.8  2.0   0  0.00   67.   996.    2 NAD-SFC NoSubs
10  9  5 248 10  132.8 -9.000 -9.000 -9.000  516. -999. -99999.0  0.2235  0.52  0.20  0.00   0.0  15.0 298.4  2.0   0  0.00   63.   995.    2 NAD-SFC NoSubs
10  9  5 248 11  156.1 -9.000 -9.000 -9.000  656. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 300.0  2.0   0  0.00   59.   995.    2 NAD-SFC NoSubs
10  9  5 248 12  167.8 -9.000 -9.000 -9.000  807. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 301.4  2.0   0  0.00   55.   994.    2 NAD-SFC NoSubs
10  9  5 248 13  167.7 -9.000 -9.000 -9.000  935. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 302.8  2.0   0  0.00   50.   993.    2 NAD-SFC NoSubs
10  9  5 248 14  155.6  0.181  1.644  0.011 1013.  185.     -3.4  0.2930  0.52  0.19  1.00 340.0  15.0 303.5  2.0   0  0.00   46.   992.    2 NAD-SFC NoSubs
10  9  5 248 15  131.8  0.288  1.581  0.011 1062.  370.    -16.0  0.2930  0.52  0.20  2.10 355.0  15.0 303.9  2.0   0  0.00   45.   992.    2 NAD-SFC NoSubs
10  9  5 248 16   97.2  0.372  1.444  0.011 1097.  544.    -46.7  0.2940  0.52  0.21  3.10   1.0  15.0 304.0  2.0   0  0.00   45.   991.    2 NAD-SFC NoSubs
10  9  5 248 17   53.4  0.310  1.190  0.011 1115.  416.    -49.3  0.2940  0.52  0.26  2.60   8.0  15.0 303.6  2.0   0  0.00   55.   991.    2 NAD-SFC NoSubs
10  9  5 248 18    6.1  0.373  0.578  0.011 1115.  546.   -751.0  0.2940  0.52  0.42  3.60  11.0  15.0 302.8  2.0   0  0.00   59.   992.    2 NAD-SFC NoSubs
10  9  5 248 19  -40.2  0.406 -9.000 -9.000 -999.  621.    147.3  0.2930  0.52  1.00  4.10 348.0  15.0 300.9  2.0   0  0.00   64.   992.    3 NAD-SFC NoSubs
10  9  5 248 20  -35.3  0.355 -9.000 -9.000 -999.  509.    111.8  0.2930  0.52  1.00  3.60 337.0  15.0 299.5  2.0   0  0.00   66.   992.    3 NAD-SFC NoSubs
10  9  5 248 21  -34.7  0.347 -9.000 -9.000 -999.  491.    106.7  0.2720  0.52  1.00  3.60 320.0  15.0 298.6  2.0   0  0.00   66.   993.    3 NAD-SFC NoSubs
10  9  5 248 22  -29.7  0.297 -9.000 -9.000 -999.  389.     77.9  0.2720  0.52  1.00  3.10 306.0  15.0 298.0  2.0   0  0.00   65.   993.    3 NAD-SFC NoSubs
10  9  5 248 23  -24.1  0.246 -9.000 -9.000 -999.  294.     54.9  0.2720  0.52  1.00  2.60 304.0  15.0 297.1  2.0   0  0.00   67.   993.    3 NAD-SFC NoSubs
10  9  5 248 24  -15.5  0.196 -9.000 -9.000 -999.  208.     42.8  0.2720  0.52  1.00  2.10 304.0  15.0 296.2  2.0   0  0.00   69.   993.    3 NAD-SFC NoSubs
10  9  6 249  1  -24.2  0.246 -9.000 -9.000 -999.  293.     54.7  0.2720  0.52  1.00  2.60 301.0  15.0 295.6  2.0   0  0.00   71.   993.    3 NAD-SFC NoSubs
10  9  6 249  2  -24.5  0.246 -9.000 -9.000 -999.  293.     53.8  0.2720  0.52  1.00  2.60 308.0  15.0 294.8  2.0   0  0.00   73.   993.    2 NAD-SFC NoSubs
10  9  6 249  3  -15.7  0.195 -9.000 -9.000 -999.  208.     42.0  0.2720  0.52  1.00  2.10 310.0  15.0 294.1  2.0   0  0.00   75.   993.    2 NAD-SFC NoSubs
10  9  6 249  4  -31.0  0.296 -9.000 -9.000 -999.  387.     74.6  0.2720  0.52  1.00  3.10 312.0  15.0 293.4  2.0   0  0.00   75.   993.    2 NAD-SFC NoSubs
10  9  6 249  5  -36.3  0.347 -9.000 -9.000 -999.  490.    101.6  0.2720  0.52  1.00  3.60 315.0  15.0 292.5  2.0   0  0.00   74.   993.    2 NAD-SFC NoSubs
10  9  6 249  6  -30.4  0.297 -9.000 -9.000 -999.  389.     76.1  0.2720  0.52  1.00  3.10 320.0  15.0 291.8  2.0   0  0.00   74.   994.    3 NAD-SFC NoSubs
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10  9  6 249  7    8.3  0.278  0.244  0.006   62.  352.   -231.1  0.2930  0.52  0.39   2.60  343.0  15.0  292.2  2.0   0  0.00   69.  995.   3 NAD-SFC NoSubs
10  9  6 249  8   54.5  0.208  0.652  0.007  181.  230.    -14.7  0.2930  0.52  0.25   1.50  332.0  15.0  293.8  2.0   0  0.00   58.  995.   2 NAD-SFC NoSubs
10  9  6 249  9   97.7  0.105  0.962  0.006  323.   87.     -1.1  0.2160  0.52  0.21   0.50  299.0  15.0  295.6  2.0   0  0.00   53.  995.   2 NAD-SFC NoSubs
10  9  6 249 10  132.1 -9.000 -9.000 -9.000  536. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  298.2  2.0   0  0.00   47.  994.   2 NAD-SFC NoSubs
10  9  6 249 11  155.5 -9.000 -9.000 -9.000  744. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  300.0  2.0   0  0.00   43.  994.   2 NAD-SFC NoSubs
10  9  6 249 12  167.2 -9.000 -9.000 -9.000  900. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  301.8  2.0   0  0.00   39.  993.   2 NAD-SFC NoSubs
10  9  6 249 13  167.2 -9.000 -9.000 -9.000 1004. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  303.2  2.0   0  0.00   36.  992.   2 NAD-SFC NoSubs
10  9  6 249 14  155.3  0.118  1.670  0.010 1063.   97.     -1.0  0.2720  0.52  0.19   0.50  301.0  15.0  304.4  2.0   0  0.00   34.  992.   2 NAD-SFC NoSubs
10  9  6 249 15  131.4  0.175  1.604  0.010 1110.  176.     -3.6  0.2720  0.52  0.20   1.00  316.0  15.0  305.0  2.0   0  0.00   33.  991.   2 NAD-SFC NoSubs
10  9  6 249 16   96.7  0.325  1.462  0.010 1144.  445.    -31.4  0.2930  0.52  0.21   2.60  342.0  15.0  305.1  2.0   0  0.00   34.  991.   2 NAD-SFC NoSubs
10  9  6 249 17   52.6  0.355  1.199  0.009 1160.  507.    -75.2  0.2930  0.52  0.26   3.10  357.0  15.0  304.1  2.0   0  0.00   45.  991.   2 NAD-SFC NoSubs
10  9  6 249 18    5.1 -9.000 -9.000 -9.000 1159. -999. -99999.0  0.2235  0.52  0.42   0.00    0.0  15.0  302.6  2.0   0  0.00   50.  992.   2 NAD-SFC NoSubs
10  9  6 249 19  -35.1  0.355 -9.000 -9.000 -999.  507.    112.6  0.2930  0.52  1.00   3.60  343.0  15.0  301.6  2.0   0  0.00   51.  993.   3 NAD-SFC NoSubs
10  9  6 249 20  -41.9  0.420 -9.000 -9.000 -999.  653.    157.0  0.2160  0.52  1.00   4.60  294.0  15.0  299.6  2.0   0  0.00   57.  993.   3 NAD-SFC NoSubs
10  9  6 249 21  -33.6  0.325 -9.000 -9.000 -999.  451.     90.8  0.2160  0.52  1.00   3.60  285.0  15.0  296.8  2.0   0  0.00   65.  994.   2 NAD-SFC NoSubs
10  9  6 249 22  -28.8  0.278 -9.000 -9.000 -999.  353.     66.1  0.2160  0.52  1.00   3.10  291.0  15.0  295.8  2.0   0  0.00   65.  994.   2 NAD-SFC NoSubs
10  9  6 249 23  -36.1  0.347 -9.000 -9.000 -999.  490.    102.5  0.2720  0.52  1.00   3.60  315.0  15.0  294.9  2.0   0  0.00   65.  995.   2 NAD-SFC NoSubs
10  9  6 249 24  -31.6  0.303 -9.000 -9.000 -999.  401.     78.1  0.2930  0.52  1.00   3.10  334.0  15.0  294.2  2.0   0  0.00   66.  995.   2 NAD-SFC NoSubs
10  9  7 250  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  293.6  2.0   0  0.00   68.  995.   2 NAD-SFC NoSubs
10  9  7 250  2  -37.2  0.355 -9.000 -9.000 -999.  507.    106.6  0.2940  0.52  1.00   3.60   17.0  15.0  293.0  2.0   0  0.00   69.  995.   2 NAD-SFC NoSubs
10  9  7 250  3  -31.8  0.303 -9.000 -9.000 -999.  402.     77.8  0.2940  0.52  1.00   3.10   23.0  15.0  292.6  2.0   0  0.00   70.  996.   2 NAD-SFC NoSubs
10  9  7 250  4  -25.6  0.252 -9.000 -9.000 -999.  304.     55.3  0.2940  0.52  1.00   2.60   12.0  15.0  292.2  2.0   0  0.00   70.  996.   2 NAD-SFC NoSubs
10  9  7 250  5  -16.5  0.200 -9.000 -9.000 -999.  215.     43.2  0.2940  0.52  1.00   2.10   15.0  15.0  292.0  2.0   0  0.00   70.  996.   2 NAD-SFC NoSubs
10  9  7 250  6   -5.1 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  291.8  2.0   0  0.00   71.  997.   2 NAD-SFC NoSubs
10  9  7 250  7    6.3  0.126  0.197  0.010   43.  108.    -28.8  0.2940  0.52  0.39   1.00    3.0  15.0  291.9  2.0   0  0.00   71.  998.   2 NAD-SFC NoSubs
10  9  7 250  8   54.1  0.208  0.631  0.008  165.  227.    -14.8  0.2930  0.52  0.25   1.50  333.0  15.0  294.4  2.0   0  0.00   58.  998.   2 NAD-SFC NoSubs
10  9  7 250  9   97.4  0.168  0.950  0.007  313.  165.     -4.3  0.2720  0.52  0.21   1.00  325.0  15.0  296.2  2.0   0  0.00   51.  998.   2 NAD-SFC NoSubs
10  9  7 250 10  131.3  0.115  1.218  0.007  490.   94.     -1.0  0.2720  0.52  0.20   0.50  319.0  15.0  297.8  2.0   0  0.00   48.  998.   2 NAD-SFC NoSubs
10  9  7 250 11  154.5 -9.000 -9.000 -9.000  675. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  299.2  2.0   0  0.00   44.  998.   2 NAD-SFC NoSubs
10  9  7 250 12  166.1  0.119  1.557  0.008  809.   99.     -1.0  0.2720  0.52  0.19   0.50  329.0  15.0  300.6  2.0   0  0.00   42.  997.   2 NAD-SFC NoSubs
10  9  7 250 13  165.7  0.119  1.627  0.009  924.   99.     -1.0  0.2720  0.52  0.19   0.50  328.0  15.0  301.8  2.0   0  0.00   40.  996.   2 NAD-SFC NoSubs
10  9  7 250 14  153.6  0.181  1.636  0.009 1013.  185.     -3.4  0.2930  0.52  0.19   1.00  355.0  15.0  302.8  2.0   0  0.00   37.  995.   2 NAD-SFC NoSubs
10  9  7 250 15  129.6  0.229  1.578  0.009 1077.  263.     -8.2  0.2930  0.52  0.20   1.50  355.0  15.0  303.2  2.0   0  0.00   37.  994.   2 NAD-SFC NoSubs
10  9  7 250 16   94.7 -9.000 -9.000 -9.000 1121. -999. -99999.0  0.2235  0.52  0.21   0.00    0.0  15.0  303.2  2.0   0  0.00   38.  994.   2 NAD-SFC NoSubs
10  9  7 250 17   51.9  0.263  1.187  0.009 1144.  324.    -31.1  0.2940  0.52  0.26   2.10    6.0  15.0  303.0  2.0   0  0.00   46.  994.   3 NAD-SFC NoSubs
10  9  7 250 18    5.5  0.270  0.561  0.009 1145.  336.   -318.2  0.2720  0.52  0.43   2.60  311.0  15.0  302.5  2.0   0  0.00   48.  995.   3 NAD-SFC NoSubs
10  9  7 250 19  -44.5  0.443 -9.000 -9.000 -999.  708.    174.0  0.1750  0.52  1.00   5.10  268.0  15.0  298.5  2.0   0  0.00   60.  996.   3 NAD-SFC NoSubs
10  9  7 250 20  -45.0  0.443 -9.000 -9.000 -999.  708.    171.9  0.1750  0.52  1.00   5.10  259.0  15.0  295.1  2.0   0  0.00   67.  996.   3 NAD-SFC NoSubs
10  9  7 250 21  -45.2  0.443 -9.000 -9.000 -999.  708.    171.0  0.1750  0.52  1.00   5.10  256.0  15.0  293.5  2.0   0  0.00   69.  997.   3 NAD-SFC NoSubs
10  9  7 250 22  -43.1  0.420 -9.000 -9.000 -999.  654.    152.9  0.2160  0.52  1.00   4.60  275.0  15.0  292.2  2.0   0  0.00   72.  998.   3 NAD-SFC NoSubs
10  9  7 250 23  -28.6  0.278 -9.000 -9.000 -999.  366.     67.0  0.2160  0.52  1.00   3.10  278.0  15.0  291.8  2.0   0  0.00   74.  999.   3 NAD-SFC NoSubs
10  9  7 250 24   -7.8  0.137 -9.000 -9.000 -999.  138.     29.1  0.2720  0.52  1.00   1.50  307.0  15.0  291.5  2.0   0  0.00   75.  999.   3 NAD-SFC NoSubs
10  9  8 251  1   -7.9  0.137 -9.000 -9.000 -999.  121.     29.1  0.2720  0.52  1.00   1.50  319.0  15.0  291.2  2.0   0  0.00   76. 1000.   3 NAD-SFC NoSubs
10  9  8 251  2  -14.1  0.183 -9.000 -9.000 -999.  188.     38.7  0.2160  0.52  1.00   2.10  299.0  15.0  290.8  2.0   0  0.00   78. 1000.   3 NAD-SFC NoSubs
10  9  8 251  3  -28.8  0.278 -9.000 -9.000 -999.  352.     66.5  0.2160  0.52  1.00   3.10  286.0  15.0  289.9  2.0   0  0.00   82. 1000.   3 NAD-SFC NoSubs
10  9  8 251  4  -22.1  0.231 -9.000 -9.000 -999.  267.     49.4  0.2160  0.52  1.00   2.60  287.0  15.0  289.0  2.0   0  0.00   85. 1001.   3 NAD-SFC NoSubs
10  9  8 251  5  -21.8  0.231 -9.000 -9.000 -999.  266.     50.5  0.2160  0.52  1.00   2.60  290.0  15.0  288.4  2.0   0  0.00   86. 1001.   4 NAD-SFC NoSubs
10  9  8 251  6  -21.8  0.231 -9.000 -9.000 -999.  266.     50.4  0.2160  0.52  1.00   2.60  289.0  15.0  288.1  2.0   0  0.00   86. 1002.   4 NAD-SFC NoSubs
10  9  8 251  7    7.3  0.258  0.292  0.006  121.  315.   -210.7  0.2160  0.52  0.39   2.60  286.0  15.0  288.5  2.0   0  0.00   84. 1002.   4 NAD-SFC NoSubs
10  9  8 251  8   53.1  0.290  0.860  0.008  429.  374.    -40.9  0.2160  0.52  0.25   2.60  290.0  15.0  289.2  2.0   0  0.00   80. 1003.   4 NAD-SFC NoSubs
10  9  8 251  9   94.5  0.207  1.126  0.008  541.  229.     -8.4  0.2160  0.52  0.21   1.50  297.0  15.0  289.5  2.0   0  0.00   76. 1003.   4 NAD-SFC NoSubs
10  9  8 251 10  127.0 -9.000 -9.000 -9.000  663. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  290.2  2.0   0  0.00   73. 1003.   4 NAD-SFC NoSubs
10  9  8 251 11  149.4 -9.000 -9.000 -9.000  769. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  292.0  2.0   0  0.00   66. 1002.   4 NAD-SFC NoSubs
10  9  8 251 12  160.4 -9.000 -9.000 -9.000  870. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  293.4  2.0   0  0.00   61. 1001.   4 NAD-SFC NoSubs
10  9  8 251 13  159.9 -9.000 -9.000 -9.000  960. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  294.6  2.0   0  0.00   56. 1000.   4 NAD-SFC NoSubs
10  9  8 251 14  147.9 -9.000 -9.000 -9.000 1036. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  295.8  2.0   0  0.00   51.  999.   4 NAD-SFC NoSubs
10  9  8 251 15  124.6  0.177  1.564  0.007 1095.  178.     -3.9  0.2940  0.52  0.20   1.00    2.0  15.0  296.5  2.0   0  0.00   47.  998.   4 NAD-SFC NoSubs
10  9  8 251 16   90.8  0.318  1.425  0.007 1136.  430.    -31.5  0.2720  0.52  0.21   2.60  329.0  15.0  296.8  2.0   0  0.00   45.  998.   4 NAD-SFC NoSubs
10  9  8 251 17   48.1  0.302  1.160  0.007 1156.  399.    -51.1  0.2720  0.52  0.26   2.60  302.0  15.0  296.2  2.0   0  0.00   54.  998.   4 NAD-SFC NoSubs
10  9  8 251 18    3.3  0.390  0.475  0.007 1154.  584.  -1599.0  0.2160  0.52  0.44   4.10  283.0  15.0  294.4  2.0   0  0.00   61.  999.   5 NAD-SFC NoSubs
10  9  8 251 19  -22.9  0.426 -9.000 -9.000 -999.  666.    300.4  0.2160  0.52  1.00   4.60  287.0  15.0  292.4  2.0   0  0.00   72. 1000.  10 NAD-SFC NoSubs
10  9  8 251 20  -19.0  0.351 -9.000 -9.000 -999.  504.    203.7  0.2720  0.52  1.00   3.60  300.0  15.0  291.0  2.0   0  0.00   79. 1001.  10 NAD-SFC NoSubs
10  9  8 251 21  -17.9  0.330 -9.000 -9.000 -999.  455.    178.7  0.2160  0.52  1.00   3.60  299.0  15.0  290.1  2.0   0  0.00   81. 1001.  10 NAD-SFC NoSubs
10  9  8 251 22  -23.0  0.280 -9.000 -9.000 -999.  356.     84.9  0.2160  0.52  1.00   3.10  295.0  15.0  289.2  2.0   0  0.00   83. 1002.   7 NAD-SFC NoSubs
10  9  8 251 23  -20.9  0.280 -9.000 -9.000 -999.  356.     94.4  0.2160  0.52  1.00   3.10  292.0  15.0  288.2  2.0   0  0.00   85. 1002.   8 NAD-SFC NoSubs
10  9  8 251 24  -15.5  0.282 -9.000 -9.000 -999.  360.    129.8  0.2160  0.52  1.00   3.10  285.0  15.0  287.8  2.0   0  0.00   85. 1002.  10 NAD-SFC NoSubs
10  9  9 252  1  -15.5  0.282 -9.000 -9.000 -999.  360.    129.8  0.2160  0.52  1.00   3.10  289.0  15.0  287.8  2.0   0  0.00   84. 1002.  10 NAD-SFC NoSubs
10  9  9 252  2  -15.5  0.282 -9.000 -9.000 -999.  360.    129.8  0.2160  0.52  1.00   3.10  289.0  15.0  287.8  2.0   0  0.00   82. 1002.  10 NAD-SFC NoSubs
10  9  9 252  3  -15.5  0.282 -9.000 -9.000 -999.  360.    129.8  0.2160  0.52  1.00   3.10  288.0  15.0  287.8  2.0   0  0.00   82. 1002.  10 NAD-SFC NoSubs
10  9  9 252  4  -15.5  0.282 -9.000 -9.000 -999.  360.    129.7  0.2160  0.52  1.00   3.10  287.0  15.0  287.5  2.0   0  0.00   82. 1002.  10 NAD-SFC NoSubs
10  9  9 252  5  -16.5  0.301 -9.000 -9.000 -999.  396.    147.2  0.2720  0.52  1.00   3.10  304.0  15.0  287.2  2.0   0  0.00   83. 1002.  10 NAD-SFC NoSubs
10  9  9 252  6  -12.9  0.235 -9.000 -9.000 -999.  275.     89.8  0.2160  0.52  1.00   2.60  298.0  15.0  287.1  2.0   0  0.00   83. 1003.  10 NAD-SFC NoSubs
10  9  9 252  7   -2.6  0.194 -9.000 -9.000 -999.  205.    255.0  0.2160  0.52  0.40   2.10  295.0  15.0  287.1  2.0   0  0.00   82. 1004.  10 NAD-SFC NoSubs
10  9  9 252  8   10.4  0.176  0.411  0.005  238.  177.    -46.7  0.2720  0.52  0.25   1.50  302.0  15.0  287.5  2.0   0  0.00   79. 1004.  10 NAD-SFC NoSubs
10  9  9 252  9   21.2  0.190  0.572  0.005  315.  198.    -28.8  0.2930  0.52  0.21   1.50  338.0  15.0  287.8  2.0   0  0.00   77. 1004.  10 NAD-SFC NoSubs
10  9  9 252 10  122.1  0.173  1.260  0.005  587.  173.     -3.8  0.2720  0.52  0.20   1.00  324.0  15.0  288.8  2.0   0  0.00   75. 1005.   5 NAD-SFC NoSubs
10  9  9 252 11  150.4  0.178  1.513  0.005  825.  180.     -3.3  0.2720  0.52  0.19   1.00  304.0  15.0  291.0  2.0   0  0.00   64. 1004.   3 NAD-SFC NoSubs
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10	9	9	252	12	161.5	0.170	1.693	0.007	1077.	169.	-2.7	0.2160	0.52	0.19	1.00	297.0	15.0	292.6	2.0	0	0.00	57.	1003.	3	NAD-SFC	NoSubs
10	9	9	252	13	161.0	0.120	1.822	0.012	1344.	101.	-1.0	0.2930	0.52	0.19	0.50	335.0	15.0	294.0	2.0	0	0.00	52.	1002.	3	NAD-SFC	NoSubs
10	9	9	252	14	146.8	0.119	1.782	0.012	1379.	99.	-1.0	0.2940	0.52	0.19	0.50	15.0	15.0	295.0	2.0	0	0.00	49.	1002.	4	NAD-SFC	NoSubs
10	9	9	252	15	119.6	0.176	1.676	0.011	1407.	177.	-4.0	0.2940	0.52	0.20	1.00	14.0	15.0	295.6	2.0	0	0.00	48.	1001.	5	NAD-SFC	NoSubs
10	9	9	252	16	86.9	0.219	1.514	0.011	1427.	246.	-10.8	0.2940	0.52	0.21	1.50	25.0	15.0	295.8	2.0	0	0.00	49.	1001.	5	NAD-SFC	NoSubs
10	9	9	252	17	46.7	0.261	1.234	0.011	1438.	319.	-33.8	0.2940	0.52	0.27	2.10	21.0	15.0	295.6	2.0	0	0.00	51.	1001.	4	NAD-SFC	NoSubs
10	9	9	252	18	0.4	0.149	0.248	0.011	1437.	144.	-774.5	0.2470	0.52	0.44	1.50	35.0	15.0	295.2	2.0	0	0.00	56.	1001.	3	NAD-SFC	NoSubs
10	9	9	252	19	-1.6	0.083	-9.000	-9.000	-999.	59.	31.6	0.2940	0.52	1.00	0.50	19.0	15.0	294.2	2.0	0	0.00	61.	1001.	3	NAD-SFC	NoSubs
10	9	9	252	20	-1.4	0.078	-9.000	-9.000	-999.	53.	30.7	0.1810	0.52	1.00	0.50	169.0	15.0	292.8	2.0	0	0.00	68.	1001.	3	NAD-SFC	NoSubs
10	9	9	252	21	-6.6	0.123	-9.000	-9.000	-999.	104.	25.3	0.1810	0.52	1.00	1.50	159.0	15.0	291.4	2.0	0	0.00	74.	1001.	3	NAD-SFC	NoSubs
10	9	9	252	22	-21.2	0.225	-9.000	-9.000	-999.	256.	47.9	0.1970	0.52	1.00	2.60	149.0	15.0	290.2	2.0	0	0.00	78.	1001.	3	NAD-SFC	NoSubs
10	9	9	252	23	-20.5	0.220	-9.000	-9.000	-999.	248.	46.4	0.1810	0.52	1.00	2.60	163.0	15.0	289.5	2.0	0	0.00	81.	1001.	3	NAD-SFC	NoSubs
10	9	9	252	24	-13.6	0.179	-9.000	-9.000	-999.	181.	37.2	0.1970	0.52	1.00	2.10	140.0	15.0	288.9	2.0	0	0.00	82.	1001.	3	NAD-SFC	NoSubs
10	9	10	253	1	-13.7	0.179	-9.000	-9.000	-999.	181.	37.2	0.1970	0.52	1.00	2.10	145.0	15.0	288.4	2.0	0	0.00	83.	1002.	3	NAD-SFC	NoSubs
10	9	10	253	2	-6.9	0.126	-9.000	-9.000	-999.	108.	25.9	0.1970	0.52	1.00	1.50	139.0	15.0	287.9	2.0	0	0.00	85.	1002.	3	NAD-SFC	NoSubs
10	9	10	253	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	287.4	2.0	0	0.00	87.	1002.	3	NAD-SFC	NoSubs
10	9	10	253	4	-3.9	0.100	-9.000	-9.000	-999.	76.	23.3	0.2720	0.52	1.00	1.00	320.0	15.0	287.1	2.0	0	0.00	89.	1002.	3	NAD-SFC	NoSubs
10	9	10	253	5	-3.9	0.100	-9.000	-9.000	-999.	76.	23.3	0.2720	0.52	1.00	1.00	300.0	15.0	286.8	2.0	0	0.00	90.	1003.	3	NAD-SFC	NoSubs
10	9	10	253	6	-7.2	0.129	-9.000	-9.000	-999.	111.	26.6	0.2160	0.52	1.00	1.50	285.0	15.0	286.4	2.0	0	0.00	90.	1003.	3	NAD-SFC	NoSubs
10	9	10	253	7	3.3	0.207	0.141	0.005	30.	227.	-243.2	0.2160	0.52	0.40	2.10	286.0	15.0	286.8	2.0	0	0.00	85.	1004.	2	NAD-SFC	NoSubs
10	9	10	253	8	50.6	0.258	0.653	0.005	196.	314.	-30.3	0.2720	0.52	0.25	2.10	325.0	15.0	288.6	2.0	0	0.00	66.	1004.	2	NAD-SFC	NoSubs
10	9	10	253	9	93.8	0.167	1.036	0.005	425.	167.	-4.4	0.2720	0.52	0.21	1.00	303.0	15.0	290.5	2.0	0	0.00	55.	1004.	2	NAD-SFC	NoSubs
10	9	10	253	10	127.6	0.109	1.336	0.009	671.	87.	-1.0	0.2160	0.52	0.20	0.50	277.0	15.0	292.2	2.0	0	0.00	49.	1004.	2	NAD-SFC	NoSubs
10	9	10	253	11	150.6	-9.000	-9.000	-9.000	807.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	293.9	2.0	0	0.00	45.	1003.	2	NAD-SFC	NoSubs
10	9	10	253	12	161.9	0.119	1.616	0.011	933.	98.	-1.0	0.2720	0.52	0.19	0.50	308.0	15.0	295.5	2.0	0	0.00	41.	1002.	2	NAD-SFC	NoSubs
10	9	10	253	13	161.3	0.121	1.657	0.011	1009.	100.	-1.0	0.2930	0.52	0.19	0.50	331.0	15.0	296.9	2.0	0	0.00	38.	1001.	2	NAD-SFC	NoSubs
10	9	10	253	14	148.8	0.181	1.639	0.010	1058.	184.	-3.5	0.2930	0.52	0.19	1.00	356.0	15.0	298.0	2.0	0	0.00	36.	1001.	2	NAD-SFC	NoSubs
10	9	10	253	15	124.6	0.228	1.564	0.010	1097.	261.	-8.5	0.2940	0.52	0.20	1.50	6.0	15.0	298.8	2.0	0	0.00	35.	1000.	2	NAD-SFC	NoSubs
10	9	10	253	16	89.4	0.323	1.412	0.010	1124.	440.	-33.6	0.2940	0.52	0.21	2.60	18.0	15.0	298.8	2.0	0	0.00	36.	1000.	2	NAD-SFC	NoSubs
10	9	10	253	17	45.2	0.306	1.130	0.009	1137.	406.	-56.4	0.2940	0.52	0.27	2.60	20.0	15.0	298.2	2.0	0	0.00	46.	999.	2	NAD-SFC	NoSubs
10	9	10	253	18	-2.9	0.319	-9.000	-9.000	-999.	432.	981.2	0.2940	0.52	0.45	3.10	26.0	15.0	297.4	2.0	0	0.00	48.	1000.	2	NAD-SFC	NoSubs
10	9	10	253	19	-23.5	0.239	-9.000	-9.000	-999.	284.	52.0	0.2470	0.52	1.00	2.60	33.0	15.0	296.2	2.0	0	0.00	51.	1000.	2	NAD-SFC	NoSubs
10	9	10	253	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	294.9	2.0	0	0.00	56.	1001.	2	NAD-SFC	NoSubs
10	9	10	253	21	-3.5	0.095	-9.000	-9.000	-999.	70.	22.0	0.1950	0.52	1.00	1.00	235.0	15.0	293.4	2.0	0	0.00	62.	1001.	2	NAD-SFC	NoSubs
10	9	10	253	22	-29.4	0.278	-9.000	-9.000	-999.	352.	65.3	0.2160	0.52	1.00	3.10	274.0	15.0	292.2	2.0	0	0.00	65.	1001.	2	NAD-SFC	NoSubs
10	9	10	253	23	-29.5	0.278	-9.000	-9.000	-999.	352.	65.0	0.2160	0.52	1.00	3.10	280.0	15.0	291.2	2.0	0	0.00	68.	1002.	2	NAD-SFC	NoSubs
10	9	10	253	24	-14.3	0.183	-9.000	-9.000	-999.	192.	38.1	0.2160	0.52	1.00	2.10	299.0	15.0	290.4	2.0	0	0.00	71.	1001.	2	NAD-SFC	NoSubs
10	9	11	254	1	-1.6	0.083	-9.000	-9.000	-999.	64.	31.9	0.2720	0.52	1.00	0.50	309.0	15.0	289.8	2.0	0	0.00	73.	1001.	2	NAD-SFC	NoSubs
10	9	11	254	2	-1.5	0.081	-9.000	-9.000	-999.	56.	31.5	0.2160	0.52	1.00	0.50	288.0	15.0	289.2	2.0	0	0.00	75.	1002.	2	NAD-SFC	NoSubs
10	9	11	254	3	-1.6	0.084	-9.000	-9.000	-999.	58.	32.0	0.2720	0.52	1.00	0.50	309.0	15.0	288.6	2.0	0	0.00	78.	1002.	2	NAD-SFC	NoSubs
10	9	11	254	4	-3.9	0.101	-9.000	-9.000	-999.	77.	23.3	0.2720	0.52	1.00	1.00	313.0	15.0	288.1	2.0	0	0.00	80.	1002.	2	NAD-SFC	NoSubs
10	9	11	254	5	-16.0	0.195	-9.000	-9.000	-999.	207.	41.4	0.2720	0.52	1.00	2.10	315.0	15.0	287.6	2.0	0	0.00	81.	1002.	2	NAD-SFC	NoSubs
10	9	11	254	6	-16.1	0.195	-9.000	-9.000	-999.	207.	41.4	0.2720	0.52	1.00	2.10	314.0	15.0	287.2	2.0	0	0.00	82.	1003.	2	NAD-SFC	NoSubs
10	9	11	254	7	2.9	0.218	0.122	0.009	22.	244.	-320.9	0.2720	0.52	0.40	2.10	309.0	15.0	287.2	2.0	0	0.00	81.	1003.	2	NAD-SFC	NoSubs
10	9	11	254	8	50.3	0.203	0.562	0.009	126.	219.	-14.8	0.2720	0.52	0.25	1.50	328.0	15.0	289.4	2.0	0	0.00	72.	1003.	2	NAD-SFC	NoSubs
10	9	11	254	9	93.5	0.110	0.888	0.008	268.	91.	-1.3	0.2720	0.52	0.21	0.50	313.0	15.0	291.8	2.0	0	0.00	63.	1003.	2	NAD-SFC	NoSubs
10	9	11	254	10	127.7	-9.000	-9.000	-9.000	437.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	294.5	2.0	0	0.00	50.	1003.	2	NAD-SFC	NoSubs
10	9	11	254	11	150.9	-9.000	-9.000	-9.000	597.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.6	2.0	0	0.00	44.	1003.	2	NAD-SFC	NoSubs
10	9	11	254	12	162.3	-9.000	-9.000	-9.000	728.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.5	2.0	0	0.00	38.	1002.	2	NAD-SFC	NoSubs
10	9	11	254	13	161.9	-9.000	-9.000	-9.000	835.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.1	2.0	0	0.00	34.	1001.	2	NAD-SFC	NoSubs
10	9	11	254	14	149.3	0.117	1.569	0.009	924.	96.	-1.0	0.2720	0.52	0.19	0.50	316.0	15.0	301.1	2.0	0	0.00	32.	1000.	2	NAD-SFC	NoSubs
10	9	11	254	15	125.0	0.116	1.512	0.008	989.	95.	-1.1	0.2930	0.52	0.20	0.50	353.0	15.0	301.8	2.0	0	0.00	31.	1000.	2	NAD-SFC	NoSubs
10	9	11	254	16	89.8	0.220	1.373	0.008	1028.	248.	-10.6	0.2940	0.52	0.21	1.50	3.0	15.0	302.0	2.0	0	0.00	31.	999.	2	NAD-SFC	NoSubs
10	9	11	254	17	45.4	0.306	1.101	0.008	1047.	406.	-56.2	0.2940	0.52	0.27	2.60	22.0	15.0	301.4	2.0	0	0.00	39.	999.	2	NAD-SFC	NoSubs
10	9	11	254	18	-0.5	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.46	0.00	0.0	15.0	300.5	2.0	0	0.00	42.	1000.	2	NAD-SFC	NoSubs
10	9	11	254	19	-46.4	0.448	-9.000	-9.000	-999.	719.	172.7	0.2720	0.52	1.00	4.60	313.0	15.0	298.1	2.0	0	0.00	50.	1001.	2	NAD-SFC	NoSubs
10	9	11	254	20	-39.2	0.372	-9.000	-9.000	-999.	550.	117.8	0.2160	0.52	1.00	4.10	286.0	15.0	293.8	2.0	0	0.00	67.	1001.	2	NAD-SFC	NoSubs
10	9	11	254	21	-39.5	0.372	-9.000	-9.000	-999.	546.	117.0	0.2160	0.52	1.00	4.10	282.0	15.0	291.8	2.0	0	0.00	72.	1002.	2	NAD-SFC	NoSubs
10	9	11	254	22	-39.6	0.372	-9.000	-9.000	-999.	545.	116.5	0.2160	0.52	1.00	4.10	278.0	15.0	290.6	2.0	0	0.00	74.	1003.	2	NAD-SFC	NoSubs
10	9	11	254	23	-29.7	0.278	-9.000	-9.000	-999.	357.	64.7	0.2160	0.52	1.00	3.10	291.0	15.0	289.8	2.0	0	0.00	76.	1003.	2	NAD-SFC	NoSubs
10	9	11	254	24	-16.6	0.200	-9.000	-9.000	-999.	217.	42.9	0.2930	0.52	1.00	2.10	345.0	15.0	289.2	2.0	0	0.00	76.	1004.	2	NAD-SFC	NoSubs
10	9	12	255	1	-32.5	0.303	-9.000	-9.000	-999.	401.	76.7	0.2940	0.52	1.00	3.10	20.0	15.0	288.6	2.0	0	0.00	78.	1004.	2	NAD-SFC	NoSubs
10	9	12	255	2	-32.6	0.303	-9.000	-9.000	-999.	401.	76.5	0.2940	0.52	1.00	3.10	15.0	15.0	287.9	2.0	0	0.00	81.	1004.	2	NAD-SFC	NoSubs
10	9	12	255	3	-16.7	0.200	-9.000	-9.000	-999.	220.	42.8	0.2940	0.52	1.00	2.10	13.0	15.0	287.5	2.0	0	0.00	82.	1004.	2	NAD-SFC	NoSubs
10	9	12	255	4	-8.3	0.140	-9.000	-9.000	-999.	126.	29.3	0.2930	0.52	1.00	1.50	356.0	15.0	287.2	2.0	0	0.00	81.	1004.	2	NAD-SFC	NoSubs
10	9	12	255	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	287.0	2.0	0	0.00	81.	1004.	2	NAD-SFC	NoSubs
10	9	12	255	6	-1.7	0.085	-9.000	-9.000	-999.	59.	32.2	0.2940	0.52	1.00	0.50	16.0	15.0	286.8	2.0	0	0.00	82.	1004.	2	NAD-SFC	NoSubs
10	9	12	255	7	2.3	0.070	0.126	0.014	30.	45.	-13.4	0.2930	0.52	0.40	0.50	357.0	15.0	287.1	2.0	0	0.00	80.	1005.	2	NAD-SFC	NoSubs
10	9	12	255	8	49.6	-9.000	-9.000	-9.000	152.	-999.	-99999.0	0.2235	0.52	0.25	0.00	0.0	15.0	289.2	2.0	0	0.00	69.	1005.	2	NAD-SFC	NoSubs
10	9	12	255	9	92.9	-9.000	-9.000	-9.000	274.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	291.6	2.0	0	0.00	62.	1005.	2	NAD-SFC	NoSubs
10	9	12	255	10	126.8	-9.000	-9.000	-9.000	405.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	293.6	2.0	0	0.00	55.	1004.	2	NAD-SFC	NoSubs
10	9	12	255	11	149.8	-9.000	-9.000	-9.000	536.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.5	2.0	0	0.00	51.	1004.	2	NAD-SFC	NoSubs
10	9	12	255	12	161.2	0.118	1.430	0.009	650.	98.	-1.0	0.2720	0.52	0.19	0.50	326.0	15.0	297.5	2.0	0	0.00	45.	1003.	2	NAD-SFC	NoSubs
10	9	12	255	13	160.6	0.120	1.510	0.010	767.	100.	-1.0	0.2930	0.52	0.19	0.50	333.0	15.0	299.1	2.0	0	0.00	38.	1002.	2	NAD-SFC	NoSubs
10	9	12	255	14	148.0	0.232	1.527	0.011	861.	269.	-7.6	0.2930	0.52	0.19	1.50	338.0	15.0	300.2	2.0	0	0.00	35.	1002.	2	NAD-SFC	NoSubs
10	9	12	255	15	123.5	0.285	1.477	0.010	933.	366.	-16.8	0.2930	0.52	0.20	2.10	353.0	15.0	300.8	2.0	0	0.00	34.	1001.	2	NAD-SFC	NoSubs
10	9	12	255	16	88.7	0.322	1.345	0.010	980.	439.	-33.7	0.2930	0.52	0.22	2.60	349.0	15.0	301.9	2.0	0	0.00	33.	1001.	2	NAD-SFC	NoSubs

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10  9 12 255 17   44.3  0.259  1.074  0.010  997.  318.    -35.1 0.2930  0.52  0.27  2.10  354.0  15.0  301.4  2.0   0  0.00   42.  1000.   2 NAD-SFC NoSubs
10  9 12 255 18   -5.1  0.361 -9.000 -9.000 -999.  521.    820.6 0.2720  0.52  0.47  3.60  324.0  15.0  300.6  2.0   0  0.00   43.  1001.   2 NAD-SFC NoSubs
10  9 12 255 19  -43.7  0.420 -9.000 -9.000 -999.  653.    151.4 0.2160  0.52  1.00  4.60  293.0  15.0  297.0  2.0   0  0.00   55.  1001.   2 NAD-SFC NoSubs
10  9 12 255 20  -44.2  0.420 -9.000 -9.000 -999.  653.    149.6 0.2160  0.52  1.00  4.60  278.0  15.0  293.5  2.0   0  0.00   68.  1002.   2 NAD-SFC NoSubs
10  9 12 255 21  -44.5  0.420 -9.000 -9.000 -999.  653.    148.7 0.2160  0.52  1.00  4.60  279.0  15.0  291.9  2.0   0  0.00   74.  1002.   2 NAD-SFC NoSubs
10  9 12 255 22  -39.6  0.372 -9.000 -9.000 -999.  547.    116.5 0.2160  0.52  1.00  4.10  290.0  15.0  290.6  2.0   0  0.00   77.  1003.   2 NAD-SFC NoSubs
10  9 12 255 23  -29.7  0.278 -9.000 -9.000 -999.  357.     64.7 0.2160  0.52  1.00  3.10  289.0  15.0  289.6  2.0   0  0.00   79.  1003.   2 NAD-SFC NoSubs
10  9 12 255 24  -25.0  0.246 -9.000 -9.000 -999.  293.     53.3 0.2720  0.52  1.00  2.60  327.0  15.0  289.0  2.0   0  0.00   78.  1003.   2 NAD-SFC NoSubs
10  9 13 256  1  -31.7  0.303 -9.000 -9.000 -999.  400.     78.6 0.2930  0.52  1.00  3.10  360.0  15.0  288.4  2.0   0  0.00   79.  1004.   3 NAD-SFC NoSubs
10  9 13 256  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00    0.0  15.0  287.8  2.0   0  0.00   80.  1004.   3 NAD-SFC NoSubs
10  9 13 256  3  -25.7  0.252 -9.000 -9.000 -999.  303.     55.5 0.2930  0.52  1.00  2.60  346.0  15.0  287.2  2.0   0  0.00   81.  1004.   3 NAD-SFC NoSubs
10  9 13 256  4  -16.7  0.200 -9.000 -9.000 -999.  215.     42.7 0.2930  0.52  1.00  2.10  347.0  15.0  286.9  2.0   0  0.00   79.  1004.   2 NAD-SFC NoSubs
10  9 13 256  5   -8.4  0.140 -9.000 -9.000 -999.  126.     29.3 0.2930  0.52  1.00  1.50  340.0  15.0  286.8  2.0   0  0.00   78.  1004.   2 NAD-SFC NoSubs
10  9 13 256  6   -4.1  0.103 -9.000 -9.000 -999.   79.     23.6 0.2930  0.52  1.00  1.00  347.0  15.0  286.5  2.0   0  0.00   77.  1004.   2 NAD-SFC NoSubs
10  9 13 256  7    1.7  0.068  0.114  0.014   30.   43.    -16.3 0.2930  0.52  0.41  0.50  335.0  15.0  286.9  2.0   0  0.00   74.  1005.   2 NAD-SFC NoSubs
10  9 13 256  8   48.9  0.100  0.597  0.012  156.   76.     -1.9 0.2720  0.52  0.26  0.50  301.0  15.0  288.9  2.0   0  0.00   63.  1005.   2 NAD-SFC NoSubs
10  9 13 256  9   92.1 -9.000 -9.000 -9.000  271. -999. -99999.0 0.2235  0.52  0.21  0.00    0.0  15.0  291.0  2.0   0  0.00   56.  1005.   2 NAD-SFC NoSubs
10  9 13 256 10  125.9 -9.000 -9.000 -9.000  397. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0  292.9  2.0   0  0.00   52.  1004.   2 NAD-SFC NoSubs
10  9 13 256 11  148.8 -9.000 -9.000 -9.000  534. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  294.8  2.0   0  0.00   49.  1004.   2 NAD-SFC NoSubs
10  9 13 256 12  160.1 -9.000 -9.000 -9.000  651. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  296.8  2.0   0  0.00   44.  1003.   2 NAD-SFC NoSubs
10  9 13 256 13  159.4 -9.000 -9.000 -9.000  763. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  298.2  2.0   0  0.00   41.  1002.   2 NAD-SFC NoSubs
10  9 13 256 14  146.7 -9.000 -9.000 -9.000  855. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  299.4  2.0   0  0.00   38.  1001.   2 NAD-SFC NoSubs
10  9 13 256 15  122.2  0.176  1.468  0.010  924.  177.     -4.0 0.2930  0.52  0.20  1.00  340.0  15.0  300.1  2.0   0  0.00   37.  1000.   2 NAD-SFC NoSubs
10  9 13 256 16   86.8  0.219  1.332  0.010  971.  246.    -10.8 0.2940  0.52  0.22  1.50    1.0  15.0  300.4  2.0   0  0.00   36.   999.   2 NAD-SFC NoSubs
10  9 13 256 17   42.4  0.258  1.056  0.010  989.  315.    -36.3 0.2940  0.52  0.27  2.10    9.0  15.0  299.9  2.0   0  0.00   44.   999.   2 NAD-SFC NoSubs
10  9 13 256 18   -7.8  0.313 -9.000 -9.000 -999.  420.    351.4 0.2940  0.52  0.48  3.10   23.0  15.0  299.0  2.0   0  0.00   48.   999.   2 NAD-SFC NoSubs
10  9 13 256 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00    0.0  15.0  297.8  2.0   0  0.00   53.  1000.   2 NAD-SFC NoSubs
10  9 13 256 20  -43.9  0.420 -9.000 -9.000 -999.  653.    150.5 0.2160  0.52  1.00  4.60  284.0  15.0  295.2  2.0   0  0.00   59.  1001.   2 NAD-SFC NoSubs
10  9 13 256 21  -46.9  0.443 -9.000 -9.000 -999.  707.    165.3 0.1750  0.52  1.00  5.10  266.0  15.0  291.6  2.0   0  0.00   69.  1001.   2 NAD-SFC NoSubs
10  9 13 256 22  -37.6  0.353 -9.000 -9.000 -999.  509.    104.4 0.1750  0.52  1.00  4.10  268.0  15.0  290.2  2.0   0  0.00   72.  1002.   2 NAD-SFC NoSubs
10  9 13 256 23  -34.7  0.325 -9.000 -9.000 -999.  446.     88.5 0.2160  0.52  1.00  3.60  294.0  15.0  289.4  2.0   0  0.00   75.  1002.   2 NAD-SFC NoSubs
10  9 13 256 24  -25.0  0.246 -9.000 -9.000 -999.  296.     53.2 0.2720  0.52  1.00  2.60  307.0  15.0  288.8  2.0   0  0.00   76.  1002.   2 NAD-SFC NoSubs
10  9 14 257  1  -16.0  0.195 -9.000 -9.000 -999.  208.     41.5 0.2720  0.52  1.00  2.10  326.0  15.0  288.2  2.0   0  0.00   76.  1003.   2 NAD-SFC NoSubs
10  9 14 257  2   -8.3  0.140 -9.000 -9.000 -999.  126.     29.3 0.2930  0.52  1.00  1.50  330.0  15.0  287.8  2.0   0  0.00   76.  1003.   2 NAD-SFC NoSubs
10  9 14 257  3   -4.0  0.101 -9.000 -9.000 -999.   77.     23.3 0.2720  0.52  1.00  1.00  320.0  15.0  287.5  2.0   0  0.00   76.  1003.   2 NAD-SFC NoSubs
10  9 14 257  4   -1.6  0.084 -9.000 -9.000 -999.   58.     32.0 0.2720  0.52  1.00  0.50  327.0  15.0  287.2  2.0   0  0.00   76.  1003.   2 NAD-SFC NoSubs
10  9 14 257  5   -1.7  0.085 -9.000 -9.000 -999.   59.     32.2 0.2940  0.52  1.00  0.50   10.0  15.0  286.8  2.0   0  0.00   78.  1003.   2 NAD-SFC NoSubs
10  9 14 257  6   -1.6  0.083 -9.000 -9.000 -999.   57.     31.9 0.2470  0.52  1.00  0.50   51.0  15.0  286.4  2.0   0  0.00   81.  1003.   2 NAD-SFC NoSubs
10  9 14 257  7    1.1 -9.000 -9.000 -9.000   19. -999. -99999.0 0.2235  0.52  0.41  0.00    0.0  15.0  286.4  2.0   0  0.00   83.  1003.   2 NAD-SFC NoSubs
10  9 14 257  8   48.2 -9.000 -9.000 -9.000  175. -999. -99999.0 0.2235  0.52  0.26  0.00    0.0  15.0  288.6  2.0   0  0.00   73.  1004.   2 NAD-SFC NoSubs
10  9 14 257  9   91.4 -9.000 -9.000 -9.000  313. -999. -99999.0 0.2235  0.52  0.21  0.00    0.0  15.0  290.8  2.0   0  0.00   67.  1003.   2 NAD-SFC NoSubs
10  9 14 257 10  125.2 -9.000 -9.000 -9.000  450. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0  292.6  2.0   0  0.00   62.  1003.   2 NAD-SFC NoSubs
10  9 14 257 11  148.0 -9.000 -9.000 -9.000  587. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  294.4  2.0   0  0.00   58.  1003.   2 NAD-SFC NoSubs
10  9 14 257 12  159.2 -9.000 -9.000 -9.000  706. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  296.2  2.0   0  0.00   52.  1002.   2 NAD-SFC NoSubs
10  9 14 257 13  158.3  0.120  1.529  0.012  807.  100.     -1.0 0.2930  0.52  0.19  0.50  332.0  15.0  297.6  2.0   0  0.00   48.  1001.   2 NAD-SFC NoSubs
10  9 14 257 14  145.5  0.180  1.536  0.013  890.  183.     -3.6 0.2930  0.52  0.19  1.00  347.0  15.0  298.6  2.0   0  0.00   45.  1001.   2 NAD-SFC NoSubs
10  9 14 257 15  120.8  0.227  1.478  0.013  954.  260.     -8.7 0.2940  0.52  0.20  1.50    1.0  15.0  299.2  2.0   0  0.00   43.  1000.   2 NAD-SFC NoSubs
10  9 14 257 16   85.3  0.276  1.332  0.013  988.  347.    -21.9 0.2940  0.52  0.22  2.10    9.0  15.0  299.5  2.0   0  0.00   42.  1000.   2 NAD-SFC NoSubs
10  9 14 257 17   40.9  0.258  1.047  0.013 1000.  314.    -37.3 0.2940  0.52  0.28  2.10   21.0  15.0  299.2  2.0   0  0.00   48.   999.   2 NAD-SFC NoSubs
10  9 14 257 18   -6.7  0.207 -9.000 -9.000 -999.  227.    118.7 0.2940  0.52  0.48  2.10   19.0  15.0  298.5  2.0   0  0.00   51.  1000.   2 NAD-SFC NoSubs
10  9 14 257 19  -16.4  0.200 -9.000 -9.000 -999.  215.     43.6 0.2940  0.52  1.00  2.10   26.0  15.0  297.1  2.0   0  0.00   56.  1000.   2 NAD-SFC NoSubs
10  9 14 257 20   -1.5  0.082 -9.000 -9.000 -999.   66.     31.5 0.2470  0.52  1.00  0.50   55.0  15.0  295.6  2.0   0  0.00   61.  1000.   2 NAD-SFC NoSubs
10  9 14 257 21   -1.5  0.080 -9.000 -9.000 -999.   54.     31.1 0.1950  0.52  1.00  0.50  237.0  15.0  294.1  2.0   0  0.00   68.  1001.   2 NAD-SFC NoSubs
10  9 14 257 22  -29.3  0.278 -9.000 -9.000 -999.  352.     65.4 0.2160  0.52  1.00  3.10  270.0  15.0  292.8  2.0   0  0.00   72.  1001.   2 NAD-SFC NoSubs
10  9 14 257 23  -29.4  0.278 -9.000 -9.000 -999.  352.     65.1 0.2160  0.52  1.00  3.10  282.0  15.0  291.5  2.0   0  0.00   74.  1001.   2 NAD-SFC NoSubs
10  9 14 257 24  -22.4  0.230 -9.000 -9.000 -999.  266.     48.9 0.2160  0.52  1.00  2.60  280.0  15.0  290.8  2.0   0  0.00   76.  1001.   2 NAD-SFC NoSubs
10  9 15 258  1  -14.3  0.183 -9.000 -9.000 -999.  188.     38.1 0.2160  0.52  1.00  2.10  274.0  15.0  290.2  2.0   0  0.00   78.  1001.   2 NAD-SFC NoSubs
10  9 15 258  2  -13.1  0.173 -9.000 -9.000 -999.  173.     35.2 0.1750  0.52  1.00  2.10  262.0  15.0  289.8  2.0   0  0.00   80.  1002.   2 NAD-SFC NoSubs
10  9 15 258  3   -7.2  0.129 -9.000 -9.000 -999.  111.     26.4 0.2160  0.52  1.00  1.50  271.0  15.0  289.2  2.0   0  0.00   83.  1002.   2 NAD-SFC NoSubs
10  9 15 258  4   -7.2  0.129 -9.000 -9.000 -999.  111.     26.4 0.2160  0.52  1.00  1.50  296.0  15.0  288.8  2.0   0  0.00   85.  1002.   2 NAD-SFC NoSubs
10  9 15 258  5  -16.0  0.195 -9.000 -9.000 -999.  207.     41.5 0.2720  0.52  1.00  2.10  307.0  15.0  288.4  2.0   0  0.00   89.  1003.   2 NAD-SFC NoSubs
10  9 15 258  6   -8.0  0.137 -9.000 -9.000 -999.  122.     28.5 0.2720  0.52  1.00  1.50  311.0  15.0  288.0  2.0   0  0.00   93.  1004.   2 NAD-SFC NoSubs
10  9 15 258  7    0.9  0.103  0.074  0.010   16.   79.   -105.3 0.2160  0.52  0.41  1.00  276.0  15.0  287.9  2.0   0  0.00   95.  1004.   2 NAD-SFC NoSubs
10  9 15 258  8   48.0  0.205  0.595  0.008  157.  223.    -16.1 0.2930  0.52  0.26  1.50  331.0  15.0  290.0  2.0   0  0.00   88.  1005.   2 NAD-SFC NoSubs
10  9 15 258  9   91.0 -9.000 -9.000 -9.000  296. -999. -99999.0 0.2235  0.52  0.21  0.00    0.0  15.0  291.8  2.0   0  0.00   79.  1005.   2 NAD-SFC NoSubs
10  9 15 258 10  124.8 -9.000 -9.000 -9.000  452. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0  293.5  2.0   0  0.00   72.  1004.   2 NAD-SFC NoSubs
10  9 15 258 11  147.6 -9.000 -9.000 -9.000  660. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  295.2  2.0   0  0.00   64.  1004.   2 NAD-SFC NoSubs
10  9 15 258 12  158.7 -9.000 -9.000 -9.000  838. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  296.9  2.0   0  0.00   57.  1003.   2 NAD-SFC NoSubs
10  9 15 258 13  157.7 -9.000 -9.000 -9.000  977. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  298.2  2.0   0  0.00   50.  1002.   2 NAD-SFC NoSubs
10  9 15 258 14  144.7  0.119  1.611  0.011 1033.   98.     -1.0 0.2930  0.52  0.19  0.50  332.0  15.0  299.1  2.0   0  0.00   46.  1002.   2 NAD-SFC NoSubs
10  9 15 258 15  119.9  0.227  1.535  0.011 1078.  259.     -8.7 0.2930  0.52  0.20  1.50  348.0  15.0  299.6  2.0   0  0.00   44.  1001.   2 NAD-SFC NoSubs
10  9 15 258 16   84.3  0.275  1.377  0.011 1107.  346.    -22.0 0.2930  0.52  0.22  2.10  360.0  15.0  299.8  2.0   0  0.00   43.  1001.   2 NAD-SFC NoSubs
10  9 15 258 17   39.8  0.257  1.077  0.011 1121.  314.    -38.2 0.2940  0.52  0.28  2.10   12.0  15.0  299.5  2.0   0  0.00   50.  1001.   2 NAD-SFC NoSubs
10  9 15 258 18   -9.8  0.258 -9.000 -9.000 -999.  315.    156.7 0.2940  0.52  0.49  2.60   12.0  15.0  298.8  2.0   0  0.00   52.  1001.   2 NAD-SFC NoSubs
10  9 15 258 19  -25.6  0.252 -9.000 -9.000 -999.  304.     55.9 0.2940  0.52  1.00  2.60   21.0  15.0  297.5  2.0   0  0.00   55.  1001.   2 NAD-SFC NoSubs
10  9 15 258 20  -16.4  0.200 -9.000 -9.000 -999.  216.     43.5 0.2940  0.52  1.00  2.10   19.0  15.0  296.2  2.0   0  0.00   59.  1001.   2 NAD-SFC NoSubs
10  9 15 258 21   -1.6  0.083 -9.000 -9.000 -999.   67.     31.6 0.2930  0.52  1.00  0.50  358.0  15.0  295.1  2.0   0  0.00   64.  1002.   3 NAD-SFC NoSubs
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10	9	15	258	22	-3.6	0.097	-9.000	-9.000	-999.	72.	22.4	0.2160	0.52	1.00	1.00	280.0	15.0	293.8	2.0	0	0.00	69.	1002.	2	NAD-SFC	NoSubs
10	9	15	258	23	-3.9	0.101	-9.000	-9.000	-999.	77.	23.3	0.2720	0.52	1.00	1.00	305.0	15.0	292.8	2.0	0	0.00	73.	1002.	2	NAD-SFC	NoSubs
10	9	15	258	24	-8.2	0.140	-9.000	-9.000	-999.	125.	29.9	0.2930	0.52	1.00	1.50	330.0	15.0	292.0	2.0	0	0.00	76.	1002.	3	NAD-SFC	NoSubs
10	9	16	259	1	-37.6	0.354	-9.000	-9.000	-999.	506.	105.7	0.2930	0.52	1.00	3.60	352.0	15.0	291.2	2.0	0	0.00	79.	1003.	2	NAD-SFC	NoSubs
10	9	16	259	2	-32.3	0.303	-9.000	-9.000	-999.	402.	77.3	0.2940	0.52	1.00	3.10	8.0	15.0	290.6	2.0	0	0.00	84.	1003.	2	NAD-SFC	NoSubs
10	9	16	259	3	-25.9	0.252	-9.000	-9.000	-999.	304.	55.0	0.2940	0.52	1.00	2.60	8.0	15.0	289.9	2.0	0	0.00	87.	1003.	2	NAD-SFC	NoSubs
10	9	16	259	4	-8.3	0.140	-9.000	-9.000	-999.	132.	29.4	0.2940	0.52	1.00	1.50	6.0	15.0	289.2	2.0	0	0.00	89.	1003.	2	NAD-SFC	NoSubs
10	9	16	259	5	-1.7	0.084	-9.000	-9.000	-999.	60.	32.1	0.2930	0.52	1.00	0.50	352.0	15.0	288.6	2.0	0	0.00	92.	1004.	2	NAD-SFC	NoSubs
10	9	16	259	6	-0.6	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	288.2	2.0	0	0.00	94.	1004.	2	NAD-SFC	NoSubs
10	9	16	259	7	0.4	-9.000	-9.000	-9.000	14.	-999.	-99999.0	0.2235	0.52	0.42	0.00	0.0	15.0	288.0	2.0	0	0.00	95.	1004.	2	NAD-SFC	NoSubs
10	9	16	259	8	47.2	0.102	0.646	0.008	204.	78.	-2.0	0.2940	0.52	0.26	0.50	10.0	15.0	289.5	2.0	0	0.00	85.	1004.	2	NAD-SFC	NoSubs
10	9	16	259	9	90.3	-9.000	-9.000	-9.000	330.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	291.5	2.0	0	0.00	75.	1004.	2	NAD-SFC	NoSubs
10	9	16	259	10	124.0	-9.000	-9.000	-9.000	486.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	293.2	2.0	0	0.00	69.	1004.	2	NAD-SFC	NoSubs
10	9	16	259	11	146.8	-9.000	-9.000	-9.000	653.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.1	2.0	0	0.00	61.	1003.	2	NAD-SFC	NoSubs
10	9	16	259	12	157.8	-9.000	-9.000	-9.000	814.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.6	2.0	0	0.00	56.	1002.	2	NAD-SFC	NoSubs
10	9	16	259	13	156.8	0.120	1.608	0.013	948.	100.	-1.0	0.2930	0.52	0.19	0.50	333.0	15.0	298.0	2.0	0	0.00	51.	1001.	2	NAD-SFC	NoSubs
10	9	16	259	14	143.8	0.180	1.594	0.013	1006.	183.	-3.6	0.2930	0.52	0.19	1.00	355.0	15.0	299.1	2.0	0	0.00	48.	1000.	2	NAD-SFC	NoSubs
10	9	16	259	15	118.9	0.227	1.514	0.013	1041.	259.	-8.7	0.2940	0.52	0.20	1.50	1.0	15.0	299.8	2.0	0	0.00	46.	999.	2	NAD-SFC	NoSubs
10	9	16	259	16	83.3	0.275	1.354	0.013	1064.	346.	-22.2	0.2940	0.52	0.22	2.10	12.0	15.0	300.0	2.0	0	0.00	45.	999.	2	NAD-SFC	NoSubs
10	9	16	259	17	38.7	0.257	1.053	0.013	1074.	313.	-38.9	0.2940	0.52	0.28	2.10	29.0	15.0	299.8	2.0	0	0.00	51.	998.	2	NAD-SFC	NoSubs
10	9	16	259	18	-8.5	0.196	-9.000	-9.000	-999.	209.	78.7	0.2470	0.52	0.50	2.10	54.0	15.0	299.0	2.0	0	0.00	54.	999.	2	NAD-SFC	NoSubs
10	9	16	259	19	-7.0	0.128	-9.000	-9.000	-999.	111.	26.5	0.2090	0.52	1.00	1.50	64.0	15.0	297.6	2.0	0	0.00	59.	999.	2	NAD-SFC	NoSubs
10	9	16	259	20	-1.5	0.080	-9.000	-9.000	-999.	55.	31.2	0.2090	0.52	1.00	0.50	80.0	15.0	296.1	2.0	0	0.00	65.	999.	2	NAD-SFC	NoSubs
10	9	16	259	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	294.8	2.0	0	0.00	71.	999.	2	NAD-SFC	NoSubs
10	9	16	259	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	293.5	2.0	0	0.00	77.	999.	2	NAD-SFC	NoSubs
10	9	16	259	23	-1.5	0.081	-9.000	-9.000	-999.	55.	31.4	0.2160	0.52	1.00	0.50	277.0	15.0	292.5	2.0	0	0.00	80.	999.	2	NAD-SFC	NoSubs
10	9	16	259	24	-1.6	0.083	-9.000	-9.000	-999.	58.	31.9	0.2720	0.52	1.00	0.50	304.0	15.0	291.8	2.0	0	0.00	82.	999.	2	NAD-SFC	NoSubs
10	9	17	260	1	-1.6	0.083	-9.000	-9.000	-999.	58.	31.9	0.2720	0.52	1.00	0.50	319.0	15.0	291.1	2.0	0	0.00	84.	999.	2	NAD-SFC	NoSubs
10	9	17	260	2	-8.3	0.140	-9.000	-9.000	-999.	125.	29.5	0.2930	0.52	1.00	1.50	343.0	15.0	290.8	2.0	0	0.00	86.	1000.	2	NAD-SFC	NoSubs
10	9	17	260	3	-16.5	0.200	-9.000	-9.000	-999.	214.	43.0	0.2930	0.52	1.00	2.10	348.0	15.0	290.4	2.0	0	0.00	89.	1000.	2	NAD-SFC	NoSubs
10	9	17	260	4	-8.3	0.140	-9.000	-9.000	-999.	126.	29.4	0.2930	0.52	1.00	1.50	352.0	15.0	289.9	2.0	0	0.00	93.	1000.	2	NAD-SFC	NoSubs
10	9	17	260	5	-4.0	0.102	-9.000	-9.000	-999.	79.	23.6	0.2930	0.52	1.00	1.00	330.0	15.0	289.2	2.0	0	0.00	98.	1000.	2	NAD-SFC	NoSubs
10	9	17	260	6	-3.9	0.101	-9.000	-9.000	-999.	77.	23.3	0.2720	0.52	1.00	1.00	312.0	15.0	288.8	2.0	0	0.00	100.	1001.	2	NAD-SFC	NoSubs
10	9	17	260	7	0.1	0.101	0.021	0.009	5.	77.	-1286.8	0.2720	0.52	0.42	1.00	325.0	15.0	288.8	2.0	0	0.00	100.	1001.	2	NAD-SFC	NoSubs
10	9	17	260	8	46.5	0.205	0.612	0.007	176.	222.	-16.4	0.2930	0.52	0.26	1.50	350.0	15.0	289.1	2.0	0	0.00	100.	1002.	2	NAD-SFC	NoSubs
10	9	17	260	9	89.0	0.111	0.913	0.006	305.	92.	-1.4	0.2940	0.52	0.21	0.50	2.0	15.0	289.2	2.0	0	0.00	100.	1002.	2	NAD-SFC	NoSubs
10	9	17	260	10	122.4	-9.000	-9.000	-9.000	473.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	290.0	2.0	0	0.00	97.	1002.	2	NAD-SFC	NoSubs
10	9	17	260	11	145.3	-9.000	-9.000	-9.000	693.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	292.8	2.0	0	0.00	84.	1002.	2	NAD-SFC	NoSubs
10	9	17	260	12	156.6	-9.000	-9.000	-9.000	824.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.6	2.0	0	0.00	72.	1001.	2	NAD-SFC	NoSubs
10	9	17	260	13	155.7	-9.000	-9.000	-9.000	938.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.5	2.0	0	0.00	62.	1000.	2	NAD-SFC	NoSubs
10	9	17	260	14	142.8	0.119	1.589	0.012	1004.	98.	-1.0	0.2930	0.52	0.19	0.50	354.0	15.0	298.9	2.0	0	0.00	56.	1000.	2	NAD-SFC	NoSubs
10	9	17	260	15	117.9	0.175	1.511	0.012	1044.	176.	-4.1	0.2930	0.52	0.20	1.00	360.0	15.0	299.8	2.0	0	0.00	52.	999.	2	NAD-SFC	NoSubs
10	9	17	260	16	82.4	-9.000	-9.000	-9.000	1072.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	300.8	2.0	0	0.00	46.	999.	2	NAD-SFC	NoSubs
10	9	17	260	17	39.0	0.257	1.059	0.011	1084.	313.	-38.8	0.2940	0.52	0.29	2.10	25.0	15.0	300.5	2.0	0	0.00	52.	999.	3	NAD-SFC	NoSubs
10	9	17	260	18	-12.3	0.310	-9.000	-9.000	-999.	414.	215.5	0.2940	0.52	0.51	3.10	25.0	15.0	299.8	2.0	0	0.00	55.	999.	3	NAD-SFC	NoSubs
10	9	17	260	19	-30.6	0.304	-9.000	-9.000	-999.	402.	81.6	0.2940	0.52	1.00	3.10	26.0	15.0	298.4	2.0	0	0.00	59.	999.	3	NAD-SFC	NoSubs
10	9	17	260	20	-3.9	0.101	-9.000	-9.000	-999.	130.	23.7	0.2940	0.52	1.00	1.00	16.0	15.0	297.2	2.0	0	0.00	63.	1000.	3	NAD-SFC	NoSubs
10	9	17	260	21	-3.2	0.091	-9.000	-9.000	-999.	67.	21.6	0.1750	0.52	1.00	1.00	258.0	15.0	296.1	2.0	0	0.00	68.	1000.	4	NAD-SFC	NoSubs
10	9	17	260	22	-27.4	0.279	-9.000	-9.000	-999.	353.	70.5	0.2160	0.52	1.00	3.10	277.0	15.0	295.0	2.0	0	0.00	74.	1001.	4	NAD-SFC	NoSubs
10	9	17	260	23	-40.7	0.397	-9.000	-9.000	-999.	601.	137.6	0.2720	0.52	1.00	4.10	307.0	15.0	293.9	2.0	0	0.00	81.	1001.	3	NAD-SFC	NoSubs
10	9	17	260	24	-41.7	0.406	-9.000	-9.000	-999.	621.	143.0	0.2930	0.52	1.00	4.10	338.0	15.0	292.6	2.0	0	0.00	92.	1001.	3	NAD-SFC	NoSubs
10	9	18	261	1	-31.3	0.303	-9.000	-9.000	-999.	407.	79.6	0.2930	0.52	1.00	3.10	349.0	15.0	291.8	2.0	0	0.00	98.	1002.	3	NAD-SFC	NoSubs
10	9	18	261	2	-25.5	0.252	-9.000	-9.000	-999.	304.	55.9	0.2930	0.52	1.00	2.60	350.0	15.0	291.2	2.0	0	0.00	100.	1002.	3	NAD-SFC	NoSubs
10	9	18	261	3	-16.4	0.200	-9.000	-9.000	-999.	215.	43.6	0.2930	0.52	1.00	2.10	349.0	15.0	290.6	2.0	0	0.00	100.	1002.	3	NAD-SFC	NoSubs
10	9	18	261	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	290.1	2.0	0	0.00	100.	1002.	4	NAD-SFC	NoSubs
10	9	18	261	5	-16.1	0.200	-9.000	-9.000	-999.	215.	44.6	0.2940	0.52	1.00	2.10	7.0	15.0	290.0	2.0	0	0.00	100.	1002.	4	NAD-SFC	NoSubs
10	9	18	261	6	-8.0	0.140	-9.000	-9.000	-999.	126.	30.4	0.2940	0.52	1.00	1.50	21.0	15.0	290.2	2.0	0	0.00	100.	1003.	4	NAD-SFC	NoSubs
10	9	18	261	7	3.6	0.121	0.178	0.008	56.	101.	-43.6	0.2940	0.52	0.42	1.00	19.0	15.0	290.5	2.0	0	0.25	99.	1004.	5	NAD-SFC	NoSubs
10	9	18	261	8	47.6	0.102	0.659	0.007	215.	78.	-2.0	0.2940	0.52	0.26	0.50	17.0	15.0	290.8	2.0	0	0.25	98.	1004.	4	NAD-SFC	NoSubs
10	9	18	261	9	88.9	0.220	0.973	0.006	372.	247.	-10.7	0.2940	0.52	0.21	1.50	15.0	15.0	291.0	2.0	0	0.00	95.	1004.	4	NAD-SFC	NoSubs
10	9	18	261	10	122.4	0.227	1.230	0.006	545.	260.	-8.6	0.2930	0.52	0.20	1.50	350.0	15.0	291.2	2.0	0	0.00	92.	1004.	3	NAD-SFC	NoSubs
10	9	18	261	11	144.5	0.119	1.420	0.008	711.	104.	-1.0	0.2930	0.52	0.19	0.50	332.0	15.0	292.2	2.0	0	0.00	86.	1004.	3	NAD-SFC	NoSubs
10	9	18	261	12	155.5	-9.000	-9.000	-9.000	876.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.8	2.0	0	0.00	76.	1003.	3	NAD-SFC	NoSubs
10	9	18	261	13	154.5	0.118	1.623	0.012	991.	97.	-1.0	0.2720	0.52	0.19	0.50	319.0	15.0	296.5	2.0	0	0.00	68.	1002.	3	NAD-SFC	NoSubs
10	9	18	261	14	141.3	0.118	1.602	0.012	1041.	98.	-1.0	0.2930	0.52	0.19	0.50	346.0	15.0	297.8	2.0	0	0.00	63.	1001.	2	NAD-SFC	NoSubs
10	9	18	261	15	116.4	0.175	1.522	0.012	1081.	176.	-4.1	0.2940	0.52	0.20	1.00	10.0	15.0	298.6	2.0	0	0.00	59.	1000.	2	NAD-SFC	NoSubs
10	9	18	261	16	80.5	0.217	1.357	0.012	1108.	243.	-11.4	0.2940	0.52	0.22	1.50	8.0	15.0	298.9	2.0	0	0.00	58.	1000.	2	NAD-SFC	NoSubs
10	9	18	261	17	35.9	0.246	1.041	0.012	1120.	292.	-36.8	0.2470	0.52	0.29	2.10	38.0	15.0	298.9	2.0	0	0.00	63.	999.	2	NAD-SFC	NoSubs
10	9	18	261	18	-14.4	0.293	-9.000	-9.000	-999.	381.	156.3	0.2470	0.52	0.52	3.10	54.0	15.0	298.1	2.0	0	0.00	67.	1000.	3	NAD-SFC	NoSubs
10	9	18	261	19	-23.2	0.240	-9.000	-9.000	-999.	283.	52.8	0.2470	0.52	1.00	2.60	56.0	15.0	296.9	2.0	0	0.00	72.	1000.	3	NAD-SFC	NoSubs
10	9	18	261	20	-1.6	0.083	-9.000	-9.000	-999.	84.	31.6	0.2930	0.52	1.00	0.50	349.0	15.0	295.9	2.0	0	0.00	76.	1000.	3	NAD-SFC	NoSubs
10	9	18	261	21	-36.1	0.353	-9.000	-9.000	-999.	504.	108.8	0.1750	0.52	1.00	4.10	266.0	15.0	294.2	2.0	0	0.00	79.	1001.	3	NAD-SFC	NoSubs
10	9	18	261	22	-38.4	0.373	-9.000	-9.000	-999.	546.	120.2	0.2160	0.52	1.00	4.10	277.0	15.0	291.9	2.0	0	0.00	80.	1001.	3	NAD-SFC	NoSubs
10	9	18	261	23	-33.7	0.325	-9.000	-9.000	-999.	447.	91.3	0.2160	0.52	1.00	3.60	278.0	15.0	290.8	2.0	0	0.00	81.	1001.	3	NAD-SFC	NoSubs
10	9	18	261	24	-22.1	0.231	-9.000	-9.000	-999.	270.	49.5	0.2160	0.52	1.00	2.60	299.0	15.0	290.0	2.0	0	0.00	83.	1001.	3	NAD-SFC	NoSubs
10	9	19	262	1	-24.6	0.246	-9.000	-9.000	-999.	293.	54.1	0.2720	0.52	1.00	2.60	322.0	15.0	289.8	2.0	0	0.00	84.	1001.	3	NAD-SFC	NoSubs
10	9	19	262	2	-24.6	0.246	-9.000	-9.000	-999.	293.	54.1	0.2720	0.52	1.00	2.60	311.0	15.0	289.4	2.0	0	0.00	84.	1002.	3	NAD-SFC	NoSubs

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10  9 19 262  3  -24.6  0.246 -9.000 -9.000 -999.  293.     54.1  0.2720  0.52  1.00  2.60  310.0  15.0  289.2  2.0   0  0.00   84.  1002.    3 NAD-SFC NoSubs
10  9 19 262  4  -15.8  0.195 -9.000 -9.000 -999.  208.     42.2  0.2720  0.52  1.00  2.10  314.0  15.0  288.9  2.0   0  0.00   85.  1002.    3 NAD-SFC NoSubs
10  9 19 262  5  -15.8  0.195 -9.000 -9.000 -999.  207.     42.2  0.2720  0.52  1.00  2.10  325.0  15.0  288.6  2.0   0  0.00   86.  1002.    3 NAD-SFC NoSubs
10  9 19 262  6  -15.8  0.195 -9.000 -9.000 -999.  207.     42.1  0.2720  0.52  1.00  2.10  322.0  15.0  288.2  2.0   0  0.00   88.  1003.    3 NAD-SFC NoSubs
10  9 19 262  7    0.3  0.152  0.051  0.009   13.  142.   -896.3  0.2720  0.52  0.43  1.50  307.0  15.0  288.2  2.0   0  0.00   88.  1003.    3 NAD-SFC NoSubs
10  9 19 262  8   46.2  0.201  0.658  0.009  220.  216.    -15.7  0.2720  0.52  0.26  1.50  322.0  15.0  288.9  2.0   0  0.00   86.  1003.    3 NAD-SFC NoSubs
10  9 19 262  9   87.8  0.166  0.953  0.008  352.  162.     -4.6  0.2720  0.52  0.21  1.00  328.0  15.0  289.4  2.0   0  0.00   83.  1003.    2 NAD-SFC NoSubs
10  9 19 262 10  121.1 -9.000 -9.000 -9.000  494. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  290.2  2.0   0  0.00   80.  1003.    2 NAD-SFC NoSubs
10  9 19 262 11  143.6  0.110  1.361  0.010  628.   87.     -1.0  0.2090  0.52  0.19  0.50   78.0  15.0  292.0  2.0   0  0.00   76.  1002.    2 NAD-SFC NoSubs
10  9 19 262 12  154.7 -9.000 -9.000 -9.000  761. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  294.9  2.0   0  0.00   66.  1001.    2 NAD-SFC NoSubs
10  9 19 262 13  153.6 -9.000 -9.000 -9.000  876. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  296.8  2.0   0  0.00   57.  1000.    2 NAD-SFC NoSubs
10  9 19 262 14  140.5 -9.000 -9.000 -9.000  970. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  298.1  2.0   0  0.00   50.   999.    2 NAD-SFC NoSubs
10  9 19 262 15  115.4  0.113  1.483  0.014 1006.   91.     -1.1  0.2720  0.52  0.20  0.50  325.0  15.0  298.9  2.0   0  0.00   46.   998.    2 NAD-SFC NoSubs
10  9 19 262 16   79.5  0.167  1.319  0.014 1030.  163.     -5.2  0.2930  0.52  0.22  1.00  354.0  15.0  299.2  2.0   0  0.00   44.   998.    2 NAD-SFC NoSubs
10  9 19 262 17   34.9  0.199  1.006  0.014 1040.  213.    -20.2  0.2940  0.52  0.29  1.50    9.0  15.0  299.2  2.0   0  0.00   50.   997.    2 NAD-SFC NoSubs
10  9 19 262 18  -16.6  0.308 -9.000 -9.000 -999.  410.    156.5  0.2940  0.52  0.53  3.10   16.0  15.0  298.4  2.0   0  0.00   55.   997.    3 NAD-SFC NoSubs
10  9 19 262 19  -35.9  0.355 -9.000 -9.000 -999.  507.    111.0  0.2940  0.52  1.00  3.60   25.0  15.0  297.0  2.0   0  0.00   62.   998.    3 NAD-SFC NoSubs
10  9 19 262 20  -25.2  0.252 -9.000 -9.000 -999.  309.     56.5  0.2940  0.52  1.00  2.60    7.0  15.0  295.9  2.0   0  0.00   67.   998.    3 NAD-SFC NoSubs
10  9 19 262 21  -15.9  0.200 -9.000 -9.000 -999.  216.     45.0  0.2930  0.52  1.00  2.10  330.0  15.0  294.9  2.0   0  0.00   71.   998.    4 NAD-SFC NoSubs
10  9 19 262 22  -40.1  0.406 -9.000 -9.000 -999.  621.    149.0  0.2930  0.52  1.00  4.10  335.0  15.0  293.2  2.0   0  0.00   80.   999.    4 NAD-SFC NoSubs
10  9 19 262 23  -35.2  0.355 -9.000 -9.000 -999.  509.    113.0  0.2930  0.52  1.00  3.60  341.0  15.0  291.5  2.0   0  0.00   91.   999.    4 NAD-SFC NoSubs
10  9 19 262 24  -28.8  0.304 -9.000 -9.000 -999.  403.     86.9  0.2930  0.52  1.00  3.10  333.0  15.0  290.8  2.0   0  0.00   95.   999.    5 NAD-SFC NoSubs
10  9 20 263  1  -23.9  0.252 -9.000 -9.000 -999.  305.     59.9  0.2930  0.52  1.00  2.60  330.0  15.0  290.2  2.0   0  0.00   96.   999.    5 NAD-SFC NoSubs
10  9 20 263  2  -15.1  0.196 -9.000 -9.000 -999.  210.     44.5  0.2720  0.52  1.00  2.10  307.0  15.0  290.0  2.0   0  0.00   97.   999.    5 NAD-SFC NoSubs
10  9 20 263  3   -6.8  0.129 -9.000 -9.000 -999.  112.     27.9  0.2160  0.52  1.00  1.50  290.0  15.0  289.6  2.0   0  0.00   98.   999.    5 NAD-SFC NoSubs
10  9 20 263  4   -3.3  0.094 -9.000 -9.000 -999.   69.     22.4  0.2160  0.52  1.00  1.00  280.0  15.0  289.2  2.0   0  0.00   99.   999.    5 NAD-SFC NoSubs
10  9 20 263  5   -7.0  0.129 -9.000 -9.000 -999.  111.     27.2  0.2160  0.52  1.00  1.50  279.0  15.0  288.9  2.0   0  0.00  100.   999.    4 NAD-SFC NoSubs
10  9 20 263  6  -21.8  0.231 -9.000 -9.000 -999.  266.     50.5  0.2160  0.52  1.00  2.60  281.0  15.0  288.6  2.0   0  0.00  100.  1000.    4 NAD-SFC NoSubs
10  9 20 263  7    1.2  0.248  0.104  0.006   33.  297.  -1130.0  0.2160  0.52  0.43  2.60  279.0  15.0  288.8  2.0   0  0.00   99.  1000.    4 NAD-SFC NoSubs
10  9 20 263  8   45.6  0.286  0.719  0.006  290.  368.    -45.9  0.2160  0.52  0.26  2.60  277.0  15.0  289.2  2.0   0  0.00   95.  1000.    3 NAD-SFC NoSubs
10  9 20 263  9   87.9  0.302  1.061  0.007  485.  398.    -27.9  0.2160  0.52  0.21  2.60  295.0  15.0  290.0  2.0   0  0.00   91.  1000.    3 NAD-SFC NoSubs
10  9 20 263 10  120.8  0.310  1.300  0.008  649.  415.    -22.0  0.2160  0.52  0.20  2.60  299.0  15.0  290.8  2.0   0  0.00   87.  1000.    3 NAD-SFC NoSubs
10  9 20 263 11  142.9  0.217  1.456  0.008  771.  246.     -6.3  0.2160  0.52  0.19  1.50  286.0  15.0  291.8  2.0   0  0.00   81.  1000.    3 NAD-SFC NoSubs
10  9 20 263 12  153.0  0.218  1.558  0.008  882.  245.     -6.1  0.2160  0.52  0.19  1.50  294.0  15.0  292.2  2.0   0  0.00   77.   999.    2 NAD-SFC NoSubs
10  9 20 263 13  151.8  0.118  1.611  0.009  981.  101.     -1.0  0.2720  0.52  0.19  0.50  310.0  15.0  294.2  2.0   0  0.00   68.   998.    2 NAD-SFC NoSubs
10  9 20 263 14  138.6  0.116  1.599  0.009 1051.   95.     -1.0  0.2720  0.52  0.19  0.50  309.0  15.0  295.9  2.0   0  0.00   61.   997.    2 NAD-SFC NoSubs
10  9 20 263 15  113.4  0.174  1.521  0.009 1104.  175.     -4.2  0.2930  0.52  0.20  1.00  330.0  15.0  296.8  2.0   0  0.00   57.   996.    2 NAD-SFC NoSubs
10  9 20 263 16   77.4  0.216  1.354  0.009 1139.  241.    -11.6  0.2930  0.52  0.22  1.50  353.0  15.0  297.1  2.0   0  0.00   56.   996.    2 NAD-SFC NoSubs
10  9 20 263 17   32.8  0.150  1.022  0.009 1154.  141.     -9.1  0.2940  0.52  0.30  1.00   22.0  15.0  297.2  2.0   0  0.00   60.   995.    2 NAD-SFC NoSubs
10  9 20 263 18   -2.7  0.091 -9.000 -9.000 -999.   66.     24.2  0.2470  0.52  0.54  1.00   55.0  15.0  296.8  2.0   0  0.00   62.   995.    2 NAD-SFC NoSubs
10  9 20 263 19   -1.5  0.080 -9.000 -9.000 -999.   54.     31.2  0.2090  0.52  1.00  0.50   84.0  15.0  295.6  2.0   0  0.00   67.   995.    2 NAD-SFC NoSubs
10  9 20 263 20   -1.4  0.080 -9.000 -9.000 -999.   54.     31.1  0.1970  0.52  1.00  0.50  121.0  15.0  294.2  2.0   0  0.00   73.   995.    2 NAD-SFC NoSubs
10  9 20 263 21   -3.4  0.094 -9.000 -9.000 -999.   69.     21.8  0.1810  0.52  1.00  1.00  157.0  15.0  292.9  2.0   0  0.00   80.   995.    2 NAD-SFC NoSubs
10  9 20 263 22   -6.7  0.123 -9.000 -9.000 -999.  104.     25.1  0.1810  0.52  1.00  1.50  167.0  15.0  291.8  2.0   0  0.00   84.   995.    2 NAD-SFC NoSubs
10  9 20 263 23   -3.4  0.094 -9.000 -9.000 -999.   69.     21.8  0.1810  0.52  1.00  1.00  157.0  15.0  291.1  2.0   0  0.00   86.   995.    2 NAD-SFC NoSubs
10  9 20 263 24   -3.5  0.095 -9.000 -9.000 -999.   71.     22.1  0.1970  0.52  1.00  1.00  130.0  15.0  290.5  2.0   0  0.00   87.   995.    2 NAD-SFC NoSubs
10  9 21 264  1   -3.5  0.095 -9.000 -9.000 -999.   71.     22.1  0.1970  0.52  1.00  1.00  126.0  15.0  289.8  2.0   0  0.00   89.   995.    2 NAD-SFC NoSubs
10  9 21 264  2   -1.5  0.080 -9.000 -9.000 -999.   55.     31.3  0.1970  0.52  1.00  0.50  129.0  15.0  289.2  2.0   0  0.00   91.   995.    2 NAD-SFC NoSubs
10  9 21 264  3   -1.6  0.084 -9.000 -9.000 -999.   58.     32.0  0.2720  0.52  1.00  0.50  317.0  15.0  288.6  2.0   0  0.00   93.   996.    2 NAD-SFC NoSubs
10  9 21 264  4   -8.0  0.137 -9.000 -9.000 -999.  122.     28.6  0.2720  0.52  1.00  1.50  318.0  15.0  288.2  2.0   0  0.00   93.   996.    2 NAD-SFC NoSubs
10  9 21 264  5  -15.9  0.195 -9.000 -9.000 -999.  207.     41.4  0.2720  0.52  1.00  2.10  329.0  15.0  287.6  2.0   0  0.00   95.   996.    2 NAD-SFC NoSubs
10  9 21 264  6  -25.9  0.251 -9.000 -9.000 -999.  302.     54.6  0.2930  0.52  1.00  2.60  352.0  15.0  286.6  2.0   0  0.00   98.   997.    2 NAD-SFC NoSubs
10  9 21 264  7   -4.3  0.263 -9.000 -9.000 -999.  323.    372.0  0.2940  0.52  0.44  2.60    7.0  15.0  286.2  2.0   0  0.00   99.   997.    2 NAD-SFC NoSubs
10  9 21 264  8   43.5 -9.000 -9.000 -9.000  162. -999. -99999.0  0.2235  0.52  0.26  0.00    0.0  15.0  287.5  2.0   0  0.00   93.   998.    2 NAD-SFC NoSubs
10  9 21 264  9   86.4  0.103  0.947  0.005  350.   79.     -1.1  0.2090  0.52  0.21  0.50   68.0  15.0  289.2  2.0   0  0.00   85.   998.    2 NAD-SFC NoSubs
10  9 21 264 10  120.1 -9.000 -9.000 -9.000  580. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  291.8  2.0   0  0.00   72.   998.    2 NAD-SFC NoSubs
10  9 21 264 11  142.6 -9.000 -9.000 -9.000  781. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  293.8  2.0   0  0.00   62.   997.    2 NAD-SFC NoSubs
10  9 21 264 12  153.2 -9.000 -9.000 -9.000  951. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  295.2  2.0   0  0.00   55.   996.    2 NAD-SFC NoSubs
10  9 21 264 13  151.8  0.118  1.627  0.014 1010.   97.     -1.0  0.2720  0.52  0.19  0.50  319.0  15.0  296.6  2.0   0  0.00   50.   996.    2 NAD-SFC NoSubs
10  9 21 264 14  138.2  0.176  1.598  0.014 1048.  177.     -3.5  0.2720  0.52  0.19  1.00  327.0  15.0  297.4  2.0   0  0.00   47.   995.    2 NAD-SFC NoSubs
10  9 21 264 15  112.9  0.225  1.508  0.014 1079.  257.     -9.0  0.2930  0.52  0.20  1.50  353.0  15.0  298.0  2.0   0  0.00   44.   994.    2 NAD-SFC NoSubs
10  9 21 264 16   77.4 -9.000 -9.000 -9.000 1099. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  298.0  2.0   0  0.00   45.   994.    3 NAD-SFC NoSubs
10  9 21 264 17   32.9  0.299  1.009  0.014 1107.  393.    -72.1  0.2940  0.52  0.30  2.60    8.0  15.0  297.5  2.0   0  0.00   54.   994.    3 NAD-SFC NoSubs
10  9 21 264 18  -23.8  0.358 -9.000 -9.000 -999.  514.    171.1  0.2940  0.52  0.55  3.60   22.0  15.0  296.2  2.0   0  0.00   61.   995.    3 NAD-SFC NoSubs
10  9 21 264 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  295.1  2.0   0  0.00   64.   995.    3 NAD-SFC NoSubs
10  9 21 264 20  -27.3  0.279 -9.000 -9.000 -999.  353.     70.3  0.2160  0.52  1.00  3.10  292.0  15.0  294.2  2.0   0  0.00   66.   996.    4 NAD-SFC NoSubs
10  9 21 264 21  -47.9  0.468 -9.000 -9.000 -999.  768.    189.9  0.2160  0.52  1.00  5.10  275.0  15.0  292.6  2.0   0  0.00   73.   996.    3 NAD-SFC NoSubs
10  9 21 264 22  -46.4  0.468 -9.000 -9.000 -999.  768.    196.2  0.2160  0.52  1.00  5.10  295.0  15.0  290.9  2.0   0  0.00   77.   997.    4 NAD-SFC NoSubs
10  9 21 264 23  -37.2  0.373 -9.000 -9.000 -999.  553.    124.0  0.2160  0.52  1.00  4.10  293.0  15.0  289.8  2.0   0  0.00   81.   998.    4 NAD-SFC NoSubs
10  9 21 264 24  -27.9  0.278 -9.000 -9.000 -999.  358.     68.9  0.2160  0.52  1.00  3.10  289.0  15.0  288.6  2.0   0  0.00   85.   998.    4 NAD-SFC NoSubs
10  9 22 265  1  -23.6  0.247 -9.000 -9.000 -999.  295.     56.8  0.2720  0.52  1.00  2.60  300.0  15.0  288.0  2.0   0  0.00   87.   999.    5 NAD-SFC NoSubs
10  9 22 265  2  -13.7  0.250 -9.000 -9.000 -999.  301.    102.2  0.2720  0.52  1.00  2.60  302.0  15.0  287.6  2.0   0  0.00   87.   999.   10 NAD-SFC NoSubs
10  9 22 265  3  -10.3  0.188 -9.000 -9.000 -999.  196.     57.4  0.2160  0.52  1.00  2.10  294.0  15.0  287.8  2.0   0  0.00   85.   999.   10 NAD-SFC NoSubs
10  9 22 265  4  -10.2  0.188 -9.000 -9.000 -999.  195.     57.4  0.2160  0.52  1.00  2.10  285.0  15.0  287.9  2.0   0  0.00   84.   999.   10 NAD-SFC NoSubs
10  9 22 265  5  -10.2  0.188 -9.000 -9.000 -999.  195.     57.4  0.2160  0.52  1.00  2.10  281.0  15.0  287.9  2.0   0  0.00   84.   999.   10 NAD-SFC NoSubs
10  9 22 265  6  -10.9  0.200 -9.000 -9.000 -999.  215.     65.4  0.2720  0.52  1.00  2.10  305.0  15.0  287.9  2.0   0  0.00   83.  1000.   10 NAD-SFC NoSubs
10  9 22 265  7   -5.4  0.204 -9.000 -9.000 -999.  220.    139.3  0.2720  0.52  0.44  2.10  306.0  15.0  287.8  2.0   0  0.00   83.  1000.   10 NAD-SFC NoSubs
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10  9 22 265  8   30.6  0.297  0.716  0.006  427.  389.    -76.6  0.2930  0.52  0.27   2.60  331.0  15.0  287.8  2.0   0  0.00  80.  1000.   8 NAD-SFC NoSubs
10  9 22 265  9   83.1  0.218  1.098  0.006  568.  247.    -11.1  0.2930  0.52  0.21   1.50  344.0  15.0  288.1  2.0   0  0.00  77.  1000.   5 NAD-SFC NoSubs
10  9 22 265 10  117.6  0.113  1.327  0.006  709.   97.     -1.1  0.2720  0.52  0.20   0.50  302.0  15.0  288.8  2.0   0  0.00  73.  1000.   4 NAD-SFC NoSubs
10  9 22 265 11  139.2 -9.000 -9.000 -9.000  830. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  290.2  2.0   0  0.00  67.  1000.   4 NAD-SFC NoSubs
10  9 22 265 12  149.3 -9.000 -9.000 -9.000  944. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  291.8  2.0   0  0.00  61.   999.   4 NAD-SFC NoSubs
10  9 22 265 13  147.8 -9.000 -9.000 -9.000 1049. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  293.1  2.0   0  0.00  55.   999.   4 NAD-SFC NoSubs
10  9 22 265 14  134.5 -9.000 -9.000 -9.000 1138. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  293.9  2.0   0  0.00  51.   998.   4 NAD-SFC NoSubs
10  9 22 265 15  109.8  0.283  1.550  0.008 1207.  361.    -18.3  0.2940  0.52  0.20   2.10   12.0  15.0  294.4  2.0   0  0.00  50.   997.   4 NAD-SFC NoSubs
10  9 22 265 16   75.1  0.364  1.382  0.008 1252.  528.    -57.2  0.2940  0.52  0.22   3.10   10.0  15.0  295.2  2.0   0  0.00  51.   997.   3 NAD-SFC NoSubs
10  9 22 265 17   30.8  0.252  1.032  0.008 1269.  311.    -46.3  0.2940  0.52  0.30   2.10    6.0  15.0  295.1  2.0   0  0.00  59.   997.   3 NAD-SFC NoSubs
10  9 22 265 18  -18.5  0.255 -9.000 -9.000 -999.  308.     79.3  0.2940  0.52  0.56   2.60   21.0  15.0  294.5  2.0   0  0.00  62.   997.   3 NAD-SFC NoSubs
10  9 22 265 19  -28.5  0.289 -9.000 -9.000 -999.  373.     75.3  0.2470  0.52  1.00   3.10   41.0  15.0  293.1  2.0   0  0.00  68.   998.   4 NAD-SFC NoSubs
10  9 22 265 20  -13.7  0.182 -9.000 -9.000 -999.  192.     39.1  0.2090  0.52  1.00   2.10   60.0  15.0  291.8  2.0   0  0.00  74.   999.   4 NAD-SFC NoSubs
10  9 22 265 21   -3.4  0.095 -9.000 -9.000 -999.   73.     22.2  0.2090  0.52  1.00   1.00   78.0  15.0  291.0  2.0   0  0.00  78.  1000.   4 NAD-SFC NoSubs
10  9 22 265 22   -1.4  0.079 -9.000 -9.000 -999.   53.     30.8  0.1810  0.52  1.00   0.50  150.0  15.0  290.4  2.0   0  0.00  81.  1000.   3 NAD-SFC NoSubs
10  9 22 265 23   -1.4  0.079 -9.000 -9.000 -999.   54.     31.0  0.1950  0.52  1.00   0.50  237.0  15.0  289.8  2.0   0  0.00  84.  1000.   3 NAD-SFC NoSubs
10  9 22 265 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  289.1  2.0   0  0.00  87.  1000.   3 NAD-SFC NoSubs
10  9 23 266  1   -1.4  0.080 -9.000 -9.000 -999.   54.     31.0  0.1970  0.52  1.00   0.50  122.0  15.0  288.5  2.0   0  0.00  90.  1001.   3 NAD-SFC NoSubs
10  9 23 266  2   -1.5  0.080 -9.000 -9.000 -999.   55.     31.2  0.2130  0.52  1.00   0.50  115.0  15.0  288.1  2.0   0  0.00  92.  1001.   3 NAD-SFC NoSubs
10  9 23 266  3   -1.5  0.080 -9.000 -9.000 -999.   55.     31.3  0.2130  0.52  1.00   0.50   98.0  15.0  287.8  2.0   0  0.00  94.  1001.   3 NAD-SFC NoSubs
10  9 23 266  4   -1.5  0.080 -9.000 -9.000 -999.   55.     31.3  0.2130  0.52  1.00   0.50   98.0  15.0  287.2  2.0   0  0.00  96.  1001.   3 NAD-SFC NoSubs
10  9 23 266  5   -1.5  0.080 -9.000 -9.000 -999.   55.     31.3  0.2130  0.52  1.00   0.50  114.0  15.0  286.9  2.0   0  0.00  97.  1001.   3 NAD-SFC NoSubs
10  9 23 266  6   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.1970  0.52  1.00   0.50  136.0  15.0  286.6  2.0   0  0.00  98.  1002.   2 NAD-SFC NoSubs
10  9 23 266  7   -0.4  0.046 -9.000 -9.000 -999.   23.     21.9  0.1900  0.52  0.44   0.50  193.0  15.0  286.2  2.0   0  0.00  99.  1002.   2 NAD-SFC NoSubs
10  9 23 266  8   42.4 -9.000 -9.000 -9.000  184. -999. -99999.0  0.2235  0.52  0.27   0.00    0.0  15.0  288.2  2.0   0  0.00  87.  1003.   2 NAD-SFC NoSubs
10  9 23 266  9   85.3 -9.000 -9.000 -9.000  672. -999. -99999.0  0.2235  0.52  0.21   0.00    0.0  15.0  290.5  2.0   0  0.00  75.  1002.   2 NAD-SFC NoSubs
10  9 23 266 10  118.8 -9.000 -9.000 -9.000  763. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  292.2  2.0   0  0.00  69.  1002.   2 NAD-SFC NoSubs
10  9 23 266 11  141.2 -9.000 -9.000 -9.000  860. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  294.2  2.0   0  0.00  60.  1002.   2 NAD-SFC NoSubs
10  9 23 266 12  151.7  0.119  1.594  0.016  955.   99.     -1.0  0.2930  0.52  0.19   0.50  336.0  15.0  295.8  2.0   0  0.00  54.  1001.   2 NAD-SFC NoSubs
10  9 23 266 13  150.1  0.180  1.615  0.016 1002.  184.     -3.5  0.2930  0.52  0.19   1.00  346.0  15.0  297.0  2.0   0  0.00  51.  1000.   2 NAD-SFC NoSubs
10  9 23 266 14  136.4 -9.000 -9.000 -9.000 1035. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  297.9  2.0   0  0.00  50.  1000.   2 NAD-SFC NoSubs
10  9 23 266 15  110.8  0.283  1.488  0.015 1061.  361.    -18.2  0.2940  0.52  0.20   2.10    6.0  15.0  298.4  2.0   0  0.00  49.  1000.   2 NAD-SFC NoSubs
10  9 23 266 16   74.5  0.318  1.311  0.015 1078.  431.    -38.6  0.2940  0.52  0.23   2.60   10.0  15.0  298.6  2.0   0  0.00  49.   999.   2 NAD-SFC NoSubs
10  9 23 266 17   29.7  0.251  0.966  0.015 1085.  304.    -47.7  0.2940  0.52  0.31   2.10   15.0  15.0  298.4  2.0   0  0.00  54.   999.   2 NAD-SFC NoSubs
10  9 23 266 18  -14.4  0.202 -9.000 -9.000 -999.  219.     51.3  0.2940  0.52  0.58   2.10   21.0  15.0  297.6  2.0   0  0.00  56.  1000.   2 NAD-SFC NoSubs
10  9 23 266 19   -1.5  0.082 -9.000 -9.000 -999.   67.     31.5  0.2470  0.52  1.00   0.50   34.0  15.0  296.2  2.0   0  0.00  61.  1000.   2 NAD-SFC NoSubs
10  9 23 266 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  294.9  2.0   0  0.00  67.  1001.   2 NAD-SFC NoSubs
10  9 23 266 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  293.8  2.0   0  0.00  73.  1001.   2 NAD-SFC NoSubs
10  9 23 266 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  292.6  2.0   0  0.00  78.  1001.   2 NAD-SFC NoSubs
10  9 23 266 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  291.8  2.0   0  0.00  82.  1002.   2 NAD-SFC NoSubs
10  9 23 266 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  290.9  2.0   0  0.00  85.  1002.   2 NAD-SFC NoSubs
10  9 24 267  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  290.2  2.0   0  0.00  87.  1002.   2 NAD-SFC NoSubs
10  9 24 267  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  289.8  2.0   0  0.00  89.  1002.   2 NAD-SFC NoSubs
10  9 24 267  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  289.2  2.0   0  0.00  91.  1002.   2 NAD-SFC NoSubs
10  9 24 267  4   -1.7  0.084 -9.000 -9.000 -999.   59.     32.1  0.2930  0.52  1.00   0.50  341.0  15.0  288.9  2.0   0  0.00  91.  1002.   2 NAD-SFC NoSubs
10  9 24 267  5   -4.1  0.102 -9.000 -9.000 -999.   79.     23.6  0.2930  0.52  1.00   1.00  338.0  15.0  288.6  2.0   0  0.00  91.  1003.   2 NAD-SFC NoSubs
10  9 24 267  6   -1.7  0.084 -9.000 -9.000 -999.   59.     32.1  0.2930  0.52  1.00   0.50  331.0  15.0  288.2  2.0   0  0.00  91.  1003.   2 NAD-SFC NoSubs
10  9 24 267  7   -0.5  0.049 -9.000 -9.000 -999.   26.     23.4  0.2720  0.52  0.45   0.50  307.0  15.0  288.1  2.0   0  0.00  92.  1004.   2 NAD-SFC NoSubs
10  9 24 267  8   42.1  0.154  0.509  0.009  112.  145.     -7.8  0.2930  0.52  0.27   1.00  330.0  15.0  289.9  2.0   0  0.00  83.  1004.   2 NAD-SFC NoSubs
10  9 24 267  9   85.1 -9.000 -9.000 -9.000  271. -999. -99999.0  0.2235  0.52  0.22   0.00    0.0  15.0  292.1  2.0   0  0.00  74.  1005.   2 NAD-SFC NoSubs
10  9 24 267 10  118.8 -9.000 -9.000 -9.000  427. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  294.8  2.0   0  0.00  62.  1004.   2 NAD-SFC NoSubs
10  9 24 267 11  141.4 -9.000 -9.000 -9.000  576. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  297.0  2.0   0  0.00  52.  1004.   2 NAD-SFC NoSubs
10  9 24 267 12  152.0 -9.000 -9.000 -9.000  680. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  298.8  2.0   0  0.00  45.  1003.   2 NAD-SFC NoSubs
10  9 24 267 13  150.6 -9.000 -9.000 -9.000  738. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  300.4  2.0   0  0.00  40.  1002.   2 NAD-SFC NoSubs
10  9 24 267 14  137.0  0.118  1.444  0.012  786.   97.     -1.1  0.2940  0.52  0.20   0.50    7.0  15.0  301.6  2.0   0  0.00  37.  1002.   2 NAD-SFC NoSubs
10  9 24 267 15  111.4  0.225  1.369  0.011  823.  256.     -9.1  0.2940  0.52  0.20   1.50   14.0  15.0  302.2  2.0   0  0.00  36.  1001.   2 NAD-SFC NoSubs
10  9 24 267 16   74.9  0.318  1.211  0.010  847.  431.    -38.5  0.2940  0.52  0.23   2.60   16.0  15.0  302.2  2.0   0  0.00  38.  1001.   2 NAD-SFC NoSubs
10  9 24 267 17   29.9  0.297  0.895  0.010  856.  389.    -78.4  0.2940  0.52  0.31   2.60   18.0  15.0  301.6  2.0   0  0.00  48.  1001.   2 NAD-SFC NoSubs
10  9 24 267 18  -24.2  0.305 -9.000 -9.000 -999.  405.    105.0  0.2940  0.52  0.59   3.10   21.0  15.0  300.5  2.0   0  0.00  51.  1001.   2 NAD-SFC NoSubs
10  9 24 267 19   -8.2  0.140 -9.000 -9.000 -999.  149.     29.9  0.2940  0.52  1.00   1.50    6.0  15.0  299.0  2.0   0  0.00  55.  1002.   2 NAD-SFC NoSubs
10  9 24 267 20   -1.5  0.080 -9.000 -9.000 -999.   57.     31.2  0.2160  0.52  1.00   0.50  296.0  15.0  297.6  2.0   0  0.00  60.  1002.   2 NAD-SFC NoSubs
10  9 24 267 21   -3.6  0.096 -9.000 -9.000 -999.   72.     22.4  0.2160  0.52  1.00   1.00  278.0  15.0  296.2  2.0   0  0.00  66.  1002.   2 NAD-SFC NoSubs
10  9 24 267 22   -3.9  0.100 -9.000 -9.000 -999.   76.     23.3  0.2720  0.52  1.00   1.00  301.0  15.0  295.1  2.0   0  0.00  70.  1003.   2 NAD-SFC NoSubs
10  9 24 267 23   -4.0  0.102 -9.000 -9.000 -999.   78.     23.6  0.2930  0.52  1.00   1.00  346.0  15.0  294.1  2.0   0  0.00  74.  1003.   2 NAD-SFC NoSubs
10  9 24 267 24   -1.7  0.084 -9.000 -9.000 -999.   58.     31.9  0.2940  0.52  1.00   0.50    6.0  15.0  293.2  2.0   0  0.00  76.  1003.   2 NAD-SFC NoSubs
10  9 25 268  1   -1.7  0.084 -9.000 -9.000 -999.   58.     32.0  0.2930  0.52  1.00   0.50  337.0  15.0  292.8  2.0   0  0.00  78.  1003.   2 NAD-SFC NoSubs
10  9 25 268  2   -1.6  0.083 -9.000 -9.000 -999.   58.     31.8  0.2720  0.52  1.00   0.50  300.0  15.0  292.2  2.0   0  0.00  79.  1003.   2 NAD-SFC NoSubs
10  9 25 268  3   -7.2  0.129 -9.000 -9.000 -999.  111.     26.5  0.2160  0.52  1.00   1.50  287.0  15.0  291.9  2.0   0  0.00  78.  1003.   2 NAD-SFC NoSubs
10  9 25 268  4  -22.4  0.230 -9.000 -9.000 -999.  266.     49.0  0.2160  0.52  1.00   2.60  294.0  15.0  291.6  2.0   0  0.00  75.  1003.   2 NAD-SFC NoSubs
10  9 25 268  5  -24.9  0.246 -9.000 -9.000 -999.  293.     53.5  0.2720  0.52  1.00   2.60  302.0  15.0  291.2  2.0   0  0.00  73.  1003.   2 NAD-SFC NoSubs
10  9 25 268  6  -14.4  0.183 -9.000 -9.000 -999.  189.     38.1  0.2160  0.52  1.00   2.10  297.0  15.0  290.9  2.0   0  0.00  71.  1004.   2 NAD-SFC NoSubs
10  9 25 268  7   -3.1  0.135 -9.000 -9.000 -999.  119.     69.9  0.2160  0.52  0.45   1.50  286.0  15.0  290.8  2.0   0  0.00  69.  1004.   2 NAD-SFC NoSubs
10  9 25 268  8   42.2  0.254  0.508  0.011  111.  307.    -34.7  0.2720  0.52  0.27   2.10  319.0  15.0  292.5  2.0   0  0.00  58.  1004.   2 NAD-SFC NoSubs
10  9 25 268  9   85.2  0.205  0.773  0.012  194.  223.     -9.0  0.2160  0.52  0.22   1.50  299.0  15.0  294.4  2.0   0  0.00  51.  1004.   2 NAD-SFC NoSubs
10  9 25 268 10  118.8  0.108  1.018  0.011  318.   89.     -1.0  0.2160  0.52  0.20   0.50  294.0  15.0  296.8  2.0   0  0.00  45.  1003.   2 NAD-SFC NoSubs
10  9 25 268 11  141.5  0.116  1.201  0.010  438.   95.     -1.0  0.2720  0.52  0.19   0.50  304.0  15.0  299.2  2.0   0  0.00  38.  1003.   2 NAD-SFC NoSubs
10  9 25 268 12  152.2  0.118  1.332  0.009  556.   97.     -1.0  0.2720  0.52  0.19   0.50  316.0  15.0  301.0  2.0   0  0.00  34.  1002.   2 NAD-SFC NoSubs
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10  9 25 268 13  150.6  0.180  1.401  0.008  652.  184.     -3.5  0.2930  0.52  0.19  1.00  348.0  15.0  302.4  2.0  0  0.00  33.  1001.  2 NAD-SFC NoSubs
10  9 25 268 14  136.7  0.230  1.422  0.007  750.  266.     -8.0  0.2940  0.52  0.20  1.50   15.0  15.0  303.2  2.0  0  0.00  32.  1000.  2 NAD-SFC NoSubs
10  9 25 268 15  111.1  0.329  1.368  0.007  823.  453.    -28.6  0.2940  0.52  0.20  2.60   11.0  15.0  303.8  2.0  0  0.00  33.   999.  2 NAD-SFC NoSubs
10  9 25 268 16   74.3  0.318  1.218  0.006  866.  431.    -38.7  0.2940  0.52  0.23  2.60   12.0  15.0  303.4  2.0  0  0.00  38.   999.  2 NAD-SFC NoSubs
10  9 25 268 17   29.3  0.251  0.898  0.006  882.  304.    -48.1  0.2940  0.52  0.31  2.10   11.0  15.0  302.9  2.0  0  0.00  44.   999.  2 NAD-SFC NoSubs
10  9 25 268 18   12.7 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.60  0.00    0.0  15.0  301.8  2.0  0  0.00  47.   999.  2 NAD-SFC NoSubs
10  9 25 268 19   -3.8  0.100 -9.000 -9.000 -999.   76.     23.3  0.2720  0.52  1.00  1.00  328.0  15.0  300.2  2.0  0  0.00  52.   999.  2 NAD-SFC NoSubs
10  9 25 268 20   -1.5  0.080 -9.000 -9.000 -999.   54.     31.2  0.2160  0.52  1.00  0.50  270.0  15.0  298.8  2.0  0  0.00  58.   999.  2 NAD-SFC NoSubs
10  9 25 268 21   -3.5  0.096 -9.000 -9.000 -999.   72.     22.4  0.2160  0.52  1.00  1.00  287.0  15.0  297.4  2.0  0  0.00  62.  1000.  2 NAD-SFC NoSubs
10  9 25 268 22   -7.9  0.137 -9.000 -9.000 -999.  121.     29.0  0.2720  0.52  1.00  1.50  311.0  15.0  296.5  2.0  0  0.00  64.  1000.  2 NAD-SFC NoSubs
10  9 25 268 23   -7.9  0.137 -9.000 -9.000 -999.  121.     28.9  0.2720  0.52  1.00  1.50  318.0  15.0  295.8  2.0  0  0.00  65.  1000.  2 NAD-SFC NoSubs
10  9 25 268 24  -15.8  0.195 -9.000 -9.000 -999.  207.     42.1  0.2720  0.52  1.00  2.10  318.0  15.0  295.0  2.0  0  0.00  67.  1000.  2 NAD-SFC NoSubs
10  9 26 269  1   -7.9  0.137 -9.000 -9.000 -999.  122.     28.8  0.2720  0.52  1.00  1.50  307.0  15.0  294.2  2.0  0  0.00  69.  1000.  2 NAD-SFC NoSubs
10  9 26 269  2   -7.2  0.129 -9.000 -9.000 -999.  111.     26.6  0.2160  0.52  1.00  1.50  292.0  15.0  293.4  2.0  0  0.00  69.  1001.  2 NAD-SFC NoSubs
10  9 26 269  3   -3.6  0.097 -9.000 -9.000 -999.   72.     22.4  0.2160  0.52  1.00  1.00  275.0  15.0  292.8  2.0  0  0.00  69.  1001.  2 NAD-SFC NoSubs
10  9 26 269  4   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.2160  0.52  1.00  0.50  281.0  15.0  292.2  2.0  0  0.00  70.  1001.  2 NAD-SFC NoSubs
10  9 26 269  5   -1.6  0.083 -9.000 -9.000 -999.   58.     31.9  0.2720  0.52  1.00  0.50  308.0  15.0  291.8  2.0  0  0.00  71.  1001.  2 NAD-SFC NoSubs
10  9 26 269  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  291.2  2.0  0  0.00  72.  1002.  2 NAD-SFC NoSubs
10  9 26 269  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.46  0.00    0.0  15.0  290.9  2.0  0  0.00  71.  1002.  2 NAD-SFC NoSubs
10  9 26 269  8   41.5  0.154  0.538  0.015  134.  145.     -7.9  0.2930  0.52  0.27  1.00  334.0  15.0  292.4  2.0  0  0.00  63.  1002.  2 NAD-SFC NoSubs
10  9 26 269  9   84.4 -9.000 -9.000 -9.000  220. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  294.2  2.0  0  0.00  57.  1002.  2 NAD-SFC NoSubs
10  9 26 269 10  118.0 -9.000 -9.000 -9.000  321. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  296.6  2.0  0  0.00  50.  1001.  2 NAD-SFC NoSubs
10  9 26 269 11  140.6 -9.000 -9.000 -9.000  430. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  298.9  2.0  0  0.00  43.  1000.  2 NAD-SFC NoSubs
10  9 26 269 12  151.0 -9.000 -9.000 -9.000  570. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  300.5  2.0  0  0.00  40.   999.  2 NAD-SFC NoSubs
10  9 26 269 13  149.4  0.119  1.416  0.011  677.   99.     -1.0  0.2930  0.52  0.19  0.50  333.0  15.0  301.9  2.0  0  0.00  38.   998.  2 NAD-SFC NoSubs
10  9 26 269 14  135.5  0.178  1.418  0.010  749.  181.     -3.7  0.2930  0.52  0.20  1.00  341.0  15.0  302.8  2.0  0  0.00  36.   997.  2 NAD-SFC NoSubs
10  9 26 269 15  109.8  0.225  1.353  0.010  804.  256.     -9.2  0.2940  0.52  0.20  1.50    5.0  15.0  303.4  2.0  0  0.00  36.   997.  2 NAD-SFC NoSubs
10  9 26 269 16   73.1  0.272  1.199  0.010  837.  340.    -24.4  0.2940  0.52  0.23  2.10    4.0  15.0  303.4  2.0  0  0.00  38.   996.  2 NAD-SFC NoSubs
10  9 26 269 17   28.1 -9.000 -9.000 -9.000  849. -999. -99999.0  0.2235  0.52  0.32  0.00    0.0  15.0  303.0  2.0  0  0.00  45.   996.  2 NAD-SFC NoSubs
10  9 26 269 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.61  0.00    0.0  15.0  301.8  2.0  0  0.00  49.   996.  2 NAD-SFC NoSubs
10  9 26 269 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  300.2  2.0  0  0.00  54.   997.  2 NAD-SFC NoSubs
10  9 26 269 20   -1.4  0.078 -9.000 -9.000 -999.   52.     30.7  0.1750  0.52  1.00  0.50  247.0  15.0  298.8  2.0  0  0.00  60.   997.  2 NAD-SFC NoSubs
10  9 26 269 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  297.4  2.0  0  0.00  65.   997.  2 NAD-SFC NoSubs
10  9 26 269 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  296.2  2.0  0  0.00  70.   997.  2 NAD-SFC NoSubs
10  9 26 269 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  295.4  2.0  0  0.00  74.   997.  2 NAD-SFC NoSubs
10  9 26 269 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  294.5  2.0  0  0.00  77.   997.  2 NAD-SFC NoSubs
10  9 27 270  1   -1.5  0.081 -9.000 -9.000 -999.   55.     31.3  0.2160  0.52  1.00  0.50  275.0  15.0  293.9  2.0  0  0.00  77.   997.  2 NAD-SFC NoSubs
10  9 27 270  2   -7.1  0.129 -9.000 -9.000 -999.  111.     26.6  0.2160  0.52  1.00  1.50  282.0  15.0  293.6  2.0  0  0.00  74.   998.  2 NAD-SFC NoSubs
10  9 27 270  3  -14.2  0.183 -9.000 -9.000 -999.  188.     38.3  0.2160  0.52  1.00  2.10  277.0  15.0  293.4  2.0  0  0.00  69.   998.  2 NAD-SFC NoSubs
10  9 27 270  4  -14.2  0.183 -9.000 -9.000 -999.  188.     38.3  0.2160  0.52  1.00  2.10  293.0  15.0  293.1  2.0  0  0.00  65.   998.  2 NAD-SFC NoSubs
10  9 27 270  5  -14.2  0.183 -9.000 -9.000 -999.  188.     38.3  0.2160  0.52  1.00  2.10  290.0  15.0  292.8  2.0  0  0.00  62.   998.  2 NAD-SFC NoSubs
10  9 27 270  6   -7.2  0.129 -9.000 -9.000 -999.  111.     26.5  0.2160  0.52  1.00  1.50  278.0  15.0  292.6  2.0  0  0.00  61.   999.  2 NAD-SFC NoSubs
10  9 27 270  7   -3.6  0.134 -9.000 -9.000 -999.  118.     59.6  0.2160  0.52  0.46  1.50  272.0  15.0  292.4  2.0  0  0.00  60.   999.  2 NAD-SFC NoSubs
10  9 27 270  8   41.3  0.254  0.503  0.014  110.  306.    -35.2  0.2720  0.52  0.27  2.10  305.0  15.0  294.0  2.0  0  0.00  53.  1000.  2 NAD-SFC NoSubs
10  9 27 270  9   84.2  0.204  0.786  0.014  205.  222.     -9.0  0.2160  0.52  0.22  1.50  287.0  15.0  295.8  2.0  0  0.00  48.   999.  2 NAD-SFC NoSubs
10  9 27 270 10  117.8  0.108  1.033  0.013  333.   89.     -1.0  0.2160  0.52  0.20  0.50  292.0  15.0  298.1  2.0  0  0.00  43.   999.  2 NAD-SFC NoSubs
10  9 27 270 11  140.5 -9.000 -9.000 -9.000  444. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  300.5  2.0  0  0.00  41.   999.  2 NAD-SFC NoSubs
10  9 27 270 12  151.1 -9.000 -9.000 -9.000  542. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  302.6  2.0  0  0.00  38.   998.  2 NAD-SFC NoSubs
10  9 27 270 13  149.7  0.119  1.380  0.011  625.   99.     -1.0  0.2930  0.52  0.19  0.50  344.0  15.0  304.4  2.0  0  0.00  35.   997.  2 NAD-SFC NoSubs
10  9 27 270 14  135.9 -9.000 -9.000 -9.000  697. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  305.5  2.0  0  0.00  33.   996.  2 NAD-SFC NoSubs
10  9 27 270 15  110.0  0.225  1.325  0.010  751.  256.     -9.2  0.2940  0.52  0.20  1.50    8.0  15.0  305.9  2.0  0  0.00  34.   996.  2 NAD-SFC NoSubs
10  9 27 270 16   73.4  0.272  1.176  0.010  786.  340.    -24.3  0.2940  0.52  0.23  2.10   23.0  15.0  306.2  2.0  0  0.00  38.   995.  2 NAD-SFC NoSubs
10  9 27 270 17   28.2  0.296  0.859  0.010  798.  387.    -81.6  0.2940  0.52  0.32  2.60   22.0  15.0  305.5  2.0  0  0.00  45.   995.  2 NAD-SFC NoSubs
10  9 27 270 18  -21.6  0.253 -9.000 -9.000 -999.  307.     67.0  0.2940  0.52  0.62  2.60   11.0  15.0  304.5  2.0  0  0.00  48.   996.  2 NAD-SFC NoSubs
10  9 27 270 19   -8.1  0.140 -9.000 -9.000 -999.  132.     30.1  0.2930  0.52  1.00  1.50  354.0  15.0  303.2  2.0  0  0.00  51.   996.  2 NAD-SFC NoSubs
10  9 27 270 20   -1.5  0.080 -9.000 -9.000 -999.   55.     31.0  0.2160  0.52  1.00  0.50  293.0  15.0  302.0  2.0  0  0.00  56.   996.  2 NAD-SFC NoSubs
10  9 27 270 21   -3.3  0.093 -9.000 -9.000 -999.   68.     21.6  0.1750  0.52  1.00  1.00  248.0  15.0  300.8  2.0  0  0.00  61.   997.  2 NAD-SFC NoSubs
10  9 27 270 22   -3.5  0.096 -9.000 -9.000 -999.   71.     22.4  0.2160  0.52  1.00  1.00  281.0  15.0  299.8  2.0  0  0.00  64.   997.  2 NAD-SFC NoSubs
10  9 27 270 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  298.9  2.0  0  0.00  67.   997.  2 NAD-SFC NoSubs
10  9 27 270 24   -1.5  0.080 -9.000 -9.000 -999.   54.     31.2  0.2130  0.52  1.00  0.50   98.0  15.0  298.0  2.0  0  0.00  70.   997.  2 NAD-SFC NoSubs
10  9 28 271  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  297.2  2.0  0  0.00  71.   997.  2 NAD-SFC NoSubs
10  9 28 271  2   -1.6  0.083 -9.000 -9.000 -999.   57.     31.7  0.2720  0.52  1.00  0.50  318.0  15.0  296.8  2.0  0  0.00  73.   997.  2 NAD-SFC NoSubs
10  9 28 271  3   -3.5  0.096 -9.000 -9.000 -999.   72.     22.4  0.2160  0.52  1.00  1.00  292.0  15.0  296.2  2.0  0  0.00  74.   997.  2 NAD-SFC NoSubs
10  9 28 271  4   -7.1  0.129 -9.000 -9.000 -999.  111.     26.7  0.2160  0.52  1.00  1.50  291.0  15.0  296.0  2.0  0  0.00  74.   997.  2 NAD-SFC NoSubs
10  9 28 271  5  -14.2  0.183 -9.000 -9.000 -999.  188.     38.5  0.2160  0.52  1.00  2.10  283.0  15.0  295.8  2.0  0  0.00  73.   998.  2 NAD-SFC NoSubs
10  9 28 271  6  -14.2  0.183 -9.000 -9.000 -999.  188.     38.5  0.2160  0.52  1.00  2.10  287.0  15.0  295.5  2.0  0  0.00  72.   998.  2 NAD-SFC NoSubs
10  9 28 271  7   -5.9  0.239 -9.000 -9.000 -999.  280.    205.4  0.2160  0.52  0.46  2.60  295.0  15.0  295.4  2.0  0  0.00  70.   999.  2 NAD-SFC NoSubs
10  9 28 271  8   41.7  0.254  0.475  0.011   91.  307.    -34.9  0.2720  0.52  0.27  2.10  312.0  15.0  297.0  2.0  0  0.00  63.   999.  2 NAD-SFC NoSubs
10  9 28 271  9   84.7  0.157  0.764  0.013  188.  153.     -4.1  0.2160  0.52  0.22  1.00  286.0  15.0  298.9  2.0  0  0.00  55.   999.  2 NAD-SFC NoSubs
10  9 28 271 10  118.4 -9.000 -9.000 -9.000  315. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  301.2  2.0  0  0.00  50.   999.  2 NAD-SFC NoSubs
10  9 28 271 11  141.1 -9.000 -9.000 -9.000  440. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  303.6  2.0  0  0.00  44.   998.  2 NAD-SFC NoSubs
10  9 28 271 12  151.8 -9.000 -9.000 -9.000  564. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  305.5  2.0  0  0.00  39.   997.  2 NAD-SFC NoSubs
10  9 28 271 13  150.1 -9.000 -9.000 -9.000  667. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  306.9  2.0  0  0.00  35.   996.  2 NAD-SFC NoSubs
10  9 28 271 14  136.1  0.110  1.429  0.007  763.   87.     -1.0  0.2160  0.52  0.20  0.50  294.0  15.0  307.8  2.0  0  0.00  34.   996.  2 NAD-SFC NoSubs
10  9 28 271 15  110.1  0.107  1.371  0.006  832.   84.     -1.0  0.2160  0.52  0.20  0.50  299.0  15.0  308.0  2.0  0  0.00  34.   995.  2 NAD-SFC NoSubs
10  9 28 271 16   73.2  0.162  1.218  0.006  875.  157.     -5.2  0.2720  0.52  0.23  1.00  326.0  15.0  307.9  2.0  0  0.00  38.   994.  2 NAD-SFC NoSubs
10  9 28 271 17   28.0  0.195  0.889  0.006  890.  206.    -23.4  0.2930  0.52  0.32  1.50  358.0  15.0  307.2  2.0  0  0.00  42.   994.  2 NAD-SFC NoSubs
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10  9 28 271 18  -15.1  0.202 -9.000 -9.000 -999.  217.    48.3  0.2940  0.52  0.64  2.10   9.0  15.0 305.9  2.0   0  0.00  48.  995.   2 NAD-SFC NoSubs
10  9 28 271 19   -1.6  0.083 -9.000 -9.000 -999.   67.    31.6  0.2930  0.52  1.00  0.50 346.0  15.0 304.4  2.0   0  0.00  53.  995.   2 NAD-SFC NoSubs
10  9 28 271 20   -6.4  0.122 -9.000 -9.000 -999.  103.    25.2  0.1750  0.52  1.00  1.50 249.0  15.0 303.0  2.0   0  0.00  58.  995.   2 NAD-SFC NoSubs
10  9 28 271 21  -37.9  0.373 -9.000 -9.000 -999.  546.   121.4  0.2160  0.52  1.00  4.10 271.0  15.0 302.2  2.0   0  0.00  58.  995.   2 NAD-SFC NoSubs
10  9 28 271 22  -38.0  0.373 -9.000 -9.000 -999.  546.   120.9  0.2160  0.52  1.00  4.10 298.0  15.0 301.0  2.0   0  0.00  59.  996.   2 NAD-SFC NoSubs
10  9 28 271 23  -40.7  0.397 -9.000 -9.000 -999.  600.   136.7  0.2720  0.52  1.00  4.10 326.0  15.0 299.8  2.0   0  0.00  61.  996.   2 NAD-SFC NoSubs
10  9 28 271 24  -47.1  0.458 -9.000 -9.000 -999.  742.   180.6  0.2930  0.52  1.00  4.60 353.0  15.0 298.5  2.0   0  0.00  65.  997.   2 NAD-SFC NoSubs
10  9 29 272  1  -42.0  0.406 -9.000 -9.000 -999.  623.   141.6  0.2930  0.52  1.00  4.10 353.0  15.0 297.4  2.0   0  0.00  68.  997.   2 NAD-SFC NoSubs
10  9 29 272  2  -36.7  0.354 -9.000 -9.000 -999.  508.   108.0  0.2930  0.52  1.00  3.60 348.0  15.0 297.2  2.0   0  0.00  66.  997.   2 NAD-SFC NoSubs
10  9 29 272  3  -15.7  0.195 -9.000 -9.000 -999.  226.    42.2  0.2720  0.52  1.00  2.10 327.0  15.0 297.2  2.0   0  0.00  63.  997.   2 NAD-SFC NoSubs
10  9 29 272  4   -3.5  0.096 -9.000 -9.000 -999.   79.    22.4  0.2160  0.52  1.00  1.00 289.0  15.0 297.1  2.0   0  0.00  63.  997.   2 NAD-SFC NoSubs
10  9 29 272  5   -1.4  0.079 -9.000 -9.000 -999.   54.    31.0  0.1950  0.52  1.00  0.50 217.0  15.0 296.8  2.0   0  0.00  64.  998.   2 NAD-SFC NoSubs
10  9 29 272  6   -1.4  0.079 -9.000 -9.000 -999.   54.    31.0  0.1900  0.52  1.00  0.50 186.0  15.0 296.2  2.0   0  0.00  67.  998.   2 NAD-SFC NoSubs
10  9 29 272  7   -0.4  0.048 -9.000 -9.000 -999.   25.    22.1  0.1950  0.52  0.47  0.50 219.0  15.0 296.0  2.0   0  0.00  68.  998.   2 NAD-SFC NoSubs
10  9 29 272  8   41.0  0.090  0.498  0.009  107.   64.    -1.6  0.1750  0.52  0.28  0.50 256.0  15.0 297.0  2.0   0  0.00  65.  998.   2 NAD-SFC NoSubs
10  9 29 272  9   83.8  0.103  0.849  0.007  259.   79.    -1.2  0.2160  0.52  0.22  0.50 270.0  15.0 298.8  2.0   0  0.00  57.  998.   2 NAD-SFC NoSubs
10  9 29 272 10  117.4  0.105  1.141  0.006  450.   82.    -1.0  0.1950  0.52  0.20  0.50 234.0  15.0 300.8  2.0   0  0.00  51.  998.   2 NAD-SFC NoSubs
10  9 29 272 11  139.8  0.108  1.361  0.007  642.   85.    -1.0  0.1950  0.52  0.19  0.50 226.0  15.0 302.6  2.0   0  0.00  44.  997.   2 NAD-SFC NoSubs
10  9 29 272 12  150.1 -9.000 -9.000 -9.000  787. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 304.1  2.0   0  0.00  40.  996.   2 NAD-SFC NoSubs
10  9 29 272 13  148.2 -9.000 -9.000 -9.000  907. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 305.2  2.0   0  0.00  36.  995.   2 NAD-SFC NoSubs
10  9 29 272 14  134.1  0.172  1.559  0.006 1003.  171.    -3.3  0.2470  0.52  0.20  1.00  39.0  15.0 306.0  2.0   0  0.00  35.  994.   2 NAD-SFC NoSubs
10  9 29 272 15  107.9  0.282  1.482  0.006 1071.  360.   -18.5  0.2940  0.52  0.21  2.10  26.0  15.0 306.2  2.0   0  0.00  36.  994.   2 NAD-SFC NoSubs
10  9 29 272 16   70.6  0.363  1.304  0.006 1113.  524.   -59.9  0.2940  0.52  0.23  3.10  26.0  15.0 305.5  2.0   0  0.00  46.  993.   2 NAD-SFC NoSubs
10  9 29 272 17   25.0  0.388  0.926  0.006 1125.  579.  -206.0  0.2940  0.52  0.33  3.60  28.0  15.0 304.0  2.0   0  0.00  56.  993.   2 NAD-SFC NoSubs
10  9 29 272 18  -31.1  0.338 -9.000 -9.000 -999.  474.   110.2  0.2470  0.52  0.65  3.60  32.0  15.0 302.5  2.0   0  0.00  59.  993.   2 NAD-SFC NoSubs
10  9 29 272 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00   0.0  15.0 301.8  2.0   0  0.00  59.  994.   2 NAD-SFC NoSubs
10  9 29 272 20  -20.0  0.218 -9.000 -9.000 -999.  245.    46.2  0.1750  0.52  1.00  2.60 249.0  15.0 300.9  2.0   0  0.00  63.  994.   2 NAD-SFC NoSubs
10  9 29 272 21  -36.0  0.353 -9.000 -9.000 -999.  504.   108.4  0.1750  0.52  1.00  4.10 265.0  15.0 300.8  2.0   0  0.00  62.  995.   2 NAD-SFC NoSubs
10  9 29 272 22  -33.3  0.325 -9.000 -9.000 -999.  446.    91.9  0.2160  0.52  1.00  3.60 282.0  15.0 300.2  2.0   0  0.00  60.  995.   2 NAD-SFC NoSubs
10  9 29 272 23  -25.3  0.252 -9.000 -9.000 -999.  306.    56.0  0.2930  0.52  1.00  2.60 341.0  15.0 299.6  2.0   0  0.00  60.  995.   2 NAD-SFC NoSubs
10  9 29 272 24  -29.7  0.289 -9.000 -9.000 -999.  372.    71.9  0.2470  0.52  1.00  3.10  52.0  15.0 298.8  2.0   0  0.00  63.  996.   2 NAD-SFC NoSubs
10  9 30 273  1  -38.1  0.369 -9.000 -9.000 -999.  539.   117.6  0.2090  0.52  1.00  4.10  72.0  15.0 298.1  2.0   0  0.00  66.  996.   2 NAD-SFC NoSubs
10  9 30 273  2  -28.5  0.276 -9.000 -9.000 -999.  352.    65.4  0.2090  0.52  1.00  3.10  75.0  15.0 297.8  2.0   0  0.00  66.  996.   2 NAD-SFC NoSubs
10  9 30 273  3   -3.7  0.098 -9.000 -9.000 -999.  111.    22.9  0.2470  0.52  1.00  1.00  53.0  15.0 297.4  2.0   0  0.00  67.  996.   2 NAD-SFC NoSubs
10  9 30 273  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00   0.0  15.0 297.0  2.0   0  0.00  68.  996.   2 NAD-SFC NoSubs
10  9 30 273  5   -1.4  0.079 -9.000 -9.000 -999.   54.    31.0  0.1950  0.52  1.00  0.50 229.0  15.0 296.6  2.0   0  0.00  71.  997.   2 NAD-SFC NoSubs
10  9 30 273  6   -1.5  0.082 -9.000 -9.000 -999.   56.    31.5  0.2470  0.52  1.00  0.50  53.0  15.0 296.2  2.0   0  0.00  71.  997.   2 NAD-SFC NoSubs
10  9 30 273  7   19.2 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.47  0.00   0.0  15.0 295.9  2.0   0  0.00  72.  997.   2 NAD-SFC NoSubs
10  9 30 273  8   40.0  0.093  0.570  0.009  165.   68.    -1.8  0.2160  0.52  0.28  0.50 286.0  15.0 296.1  2.0   0  0.00  71.  998.   2 NAD-SFC NoSubs
10  9 30 273  9   82.8  0.204  0.869  0.007  282.  221.    -9.1  0.2160  0.52  0.22  1.50 295.0  15.0 298.0  2.0   0  0.00  61.  998.   2 NAD-SFC NoSubs
10  9 30 273 10  116.1  0.212  1.101  0.006  409.  234.    -7.3  0.2160  0.52  0.20  1.50 286.0  15.0 299.8  2.0   0  0.00  55.  998.   2 NAD-SFC NoSubs
10  9 30 273 11  138.6  0.167  1.354  0.007  637.  165.    -3.0  0.2160  0.52  0.20  1.00 271.0  15.0 302.0  2.0   0  0.00  47.  997.   2 NAD-SFC NoSubs
10  9 30 273 12  149.0 -9.000 -9.000 -9.000  784. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 303.8  2.0   0  0.00  41.  997.   2 NAD-SFC NoSubs
10  9 30 273 13  147.2 -9.000 -9.000 -9.000  905. -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 305.2  2.0   0  0.00  37.  996.   2 NAD-SFC NoSubs
10  9 30 273 14  133.1  0.117  1.551  0.006  998.   96.    -1.1  0.2940  0.52  0.20  0.50  26.0  15.0 306.2  2.0   0  0.00  33.  996.   2 NAD-SFC NoSubs
10  9 30 273 15  107.0  0.216  1.473  0.005 1062.  241.    -8.4  0.2470  0.52  0.21  1.50  32.0  15.0 306.6  2.0   0  0.00  33.  995.   2 NAD-SFC NoSubs
10  9 30 273 16   69.7  0.305  1.292  0.005 1100.  404.   -36.1  0.2470  0.52  0.24  2.60  30.0  15.0 306.1  2.0   0  0.00  40.  995.   2 NAD-SFC NoSubs
10  9 30 273 17   24.3  0.387  0.913  0.005 1111.  578.  -211.7  0.2940  0.52  0.33  3.60  18.0  15.0 304.9  2.0   0  0.00  49.  995.   2 NAD-SFC NoSubs
10  9 30 273 18  -38.3  0.407 -9.000 -9.000 -999.  623.   156.5  0.2940  0.52  0.67  4.10  14.0  15.0 303.2  2.0   0  0.00  54.  996.   2 NAD-SFC NoSubs
10  9 30 273 19  -35.3  0.347 -9.000 -9.000 -999.  493.   105.2  0.2720  0.52  1.00  3.60 328.0  15.0 302.2  2.0   0  0.00  55.  996.   2 NAD-SFC NoSubs
10  9 30 273 20  -43.0  0.420 -9.000 -9.000 -999.  653.   153.4  0.2160  0.52  1.00  4.60 297.0  15.0 300.8  2.0   0  0.00  58.  997.   2 NAD-SFC NoSubs
10  9 30 273 21  -38.4  0.373 -9.000 -9.000 -999.  548.   119.9  0.2160  0.52  1.00  4.10 293.0  15.0 298.8  2.0   0  0.00  65.  997.   2 NAD-SFC NoSubs
10  9 30 273 22  -33.6  0.325 -9.000 -9.000 -999.  447.    91.1  0.2160  0.52  1.00  3.60 290.0  15.0 297.8  2.0   0  0.00  69.  998.   2 NAD-SFC NoSubs
10  9 30 273 23  -36.0  0.347 -9.000 -9.000 -999.  490.   103.3  0.2720  0.52  1.00  3.60 319.0  15.0 297.1  2.0   0  0.00  69.  999.   2 NAD-SFC NoSubs
10  9 30 273 24  -31.5  0.303 -9.000 -9.000 -999.  402.    79.0  0.2940  0.52  1.00  3.10   3.0  15.0 296.6  2.0   0  0.00  70.  999.   2 NAD-SFC NoSubs
10 10  1 274  1   -8.2  0.140 -9.000 -9.000 -999.  148.    29.8  0.2930  0.72  1.00  1.50 341.0  15.0 296.6  2.0   0  0.00  69. 1000.   2 NAD-SFC NoSubs
10 10  1 274  2   -3.4  0.095 -9.000 -9.000 -999.   71.    22.0  0.1950  0.72  1.00  1.00 235.0  15.0 296.6  2.0   0  0.00  68. 1000.   2 NAD-SFC NoSubs
10 10  1 274  3   -6.8  0.126 -9.000 -9.000 -999.  107.    25.8  0.1950  0.72  1.00  1.50 236.0  15.0 296.6  2.0   0  0.00  67. 1001.   2 NAD-SFC NoSubs
10 10  1 274  4  -13.6  0.178 -9.000 -9.000 -999.  180.    37.1  0.1950  0.72  1.00  2.10 238.0  15.0 296.8  2.0   0  0.00  66. 1002.   2 NAD-SFC NoSubs
10 10  1 274  5   -6.8  0.126 -9.000 -9.000 -999.  107.    25.8  0.1950  0.72  1.00  1.50 236.0  15.0 296.8  2.0   0  0.00  66. 1002.   2 NAD-SFC NoSubs
10 10  1 274  6   -1.4  0.079 -9.000 -9.000 -999.   54.    31.0  0.1950  0.72  1.00  0.50 216.0  15.0 296.2  2.0   0  0.00  68. 1003.   2 NAD-SFC NoSubs
10 10  1 274  7   -0.6  0.055 -9.000 -9.000 -999.   31.    24.0  0.2940  0.72  0.48  0.50  10.0  15.0 295.8  2.0   0  0.00  71. 1004.   2 NAD-SFC NoSubs
10 10  1 274  8   48.1  0.205  0.739  0.007  300.  223.   -16.1  0.2940  0.72  0.28  1.50  22.0  15.0 296.2  2.0   0  0.00  71. 1004.   2 NAD-SFC NoSubs
10 10  1 274  9  100.1  0.165  1.089  0.008  462.  161.    -4.0  0.2470  0.72  0.22  1.00  44.0  15.0 297.5  2.0   0  0.00  64. 1004.   2 NAD-SFC NoSubs
10 10  1 274 10  140.5  0.108  1.338  0.008  611.   86.    -1.0  0.1950  0.72  0.20  0.50 223.0  15.0 298.5  2.0   0  0.00  59. 1003.   2 NAD-SFC NoSubs
10 10  1 274 11  167.0  0.111  1.518  0.008  750.   88.    -1.0  0.1950  0.72  0.20  0.50 215.0  15.0 299.2  2.0   0  0.00  56. 1003.   2 NAD-SFC NoSubs
10 10  1 274 12  179.1 -9.000 -9.000 -9.000  875. -999. -99999.0  0.2235  0.72  0.19  0.00   0.0  15.0 300.2  2.0   0  0.00  53. 1002.   2 NAD-SFC NoSubs
10 10  1 274 13  176.7 -9.000 -9.000 -9.000  985. -999. -99999.0  0.2235  0.72  0.19  0.00   0.0  15.0 301.8  2.0   0  0.00  49. 1001.   2 NAD-SFC NoSubs
10 10  1 274 14  159.3 -9.000 -9.000 -9.000 1077. -999. -99999.0  0.2235  0.72  0.20  0.00   0.0  15.0 302.8  2.0   0  0.00  46. 1001.   2 NAD-SFC NoSubs
10 10  1 274 15  127.3  0.114  1.597  0.006 1145.   93.    -1.1  0.2720  0.72  0.21  0.50 302.0  15.0 303.2  2.0   0  0.00  45. 1001.   2 NAD-SFC NoSubs
10 10  1 274 16   81.9 -9.000 -9.000 -9.000 1187. -999. -99999.0  0.2235  0.72  0.24  0.00   0.0  15.0 303.2  2.0   0  0.00  48. 1000.   2 NAD-SFC NoSubs
10 10  1 274 17   26.9  0.295  0.967  0.006 1199.  385.   -85.2  0.2940  0.72  0.34  2.60  17.0  15.0 302.8  2.0   0  0.00  52. 1000.   2 NAD-SFC NoSubs
10 10  1 274 18  -32.9  0.338 -9.000 -9.000 -999.  471.   104.7  0.2470  0.72  0.68  3.60  45.0  15.0 301.4  2.0   0  0.00  58. 1001.   2 NAD-SFC NoSubs
10 10  1 274 19   -6.9  0.128 -9.000 -9.000 -999.  161.    26.9  0.2090  0.72  1.00  1.50  66.0  15.0 300.8  2.0   0  0.00  60. 1001.   3 NAD-SFC NoSubs
10 10  1 274 20   -1.4  0.078 -9.000 -9.000 -999.   56.    30.6  0.1900  0.72  1.00  0.50 182.0  15.0 300.0  2.0   0  0.00  63. 1001.   3 NAD-SFC NoSubs
10 10  1 274 21   -6.4  0.122 -9.000 -9.000 -999.  103.    25.3  0.1750  0.72  1.00  1.50 243.0  15.0 299.2  2.0   0  0.00  67. 1001.   3 NAD-SFC NoSubs
10 10  1 274 22  -28.1  0.278 -9.000 -9.000 -999.  352.    68.7  0.2160  0.72  1.00  3.10 288.0  15.0 298.8  2.0   0  0.00  69. 1002.   3 NAD-SFC NoSubs
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10 10   1 274 23   -36.0   0.347 -9.000 -9.000 -999.   490.     103.5  0.2720  0.72  1.00   3.60  313.0  15.0  297.8   2.0    0   0.00   72.  1002.     2 NAD-SFC NoSubs
10 10   1 274 24   -36.0   0.355 -9.000 -9.000 -999.   507.     110.8  0.2930  0.72  1.00   3.60  335.0  15.0  296.9   2.0    0   0.00   75.  1002.     3 NAD-SFC NoSubs
10 10   2 275  1   -30.8   0.303 -9.000 -9.000 -999.   402.      80.8  0.2930  0.72  1.00   3.10  337.0  15.0  296.2   2.0    0   0.00   76.  1002.     3 NAD-SFC NoSubs
10 10   2 275  2   -30.2   0.297 -9.000 -9.000 -999.   388.      77.3  0.2720  0.72  1.00   3.10  317.0  15.0  295.9   2.0    0   0.00   75.  1002.     3 NAD-SFC NoSubs
10 10   2 275  3   -28.4   0.278 -9.000 -9.000 -999.   352.      67.9  0.2160  0.72  1.00   3.10  296.0  15.0  295.6   2.0    0   0.00   75.  1002.     3 NAD-SFC NoSubs
10 10   2 275  4   -22.0   0.231 -9.000 -9.000 -999.   267.      50.1  0.2160  0.72  1.00   2.60  295.0  15.0  295.2   2.0    0   0.00   75.  1003.     3 NAD-SFC NoSubs
10 10   2 275  5   -14.1   0.183 -9.000 -9.000 -999.   189.      39.0  0.2160  0.72  1.00   2.10  292.0  15.0  294.9   2.0    0   0.00   77.  1003.     3 NAD-SFC NoSubs
10 10   2 275  6    -7.1   0.129 -9.000 -9.000 -999.   111.      26.9  0.2160  0.72  1.00   1.50  298.0  15.0  294.5   2.0    0   0.00   80.  1003.     3 NAD-SFC NoSubs
10 10   2 275  7    -2.0   0.092 -9.000 -9.000 -999.    67.      35.0  0.2720  0.72  0.48   1.00  307.0  15.0  294.1   2.0    0   0.00   82.  1003.     3 NAD-SFC NoSubs
10 10   2 275  8    48.0   0.205  0.615  0.007  173.   223.     -16.1  0.2930  0.72  0.28   1.50  339.0  15.0  295.0   2.0    0   0.00   79.  1003.     3 NAD-SFC NoSubs
10 10   2 275  9    99.7  -9.000 -9.000 -9.000  342.  -999. -99999.0  0.2235  0.72  0.22   0.00    0.0  15.0  296.8   2.0    0   0.00   72.  1003.     3 NAD-SFC NoSubs
10 10   2 275 10   140.1  -9.000 -9.000 -9.000  545.  -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  298.8   2.0    0   0.00   62.  1002.     3 NAD-SFC NoSubs
10 10   2 275 11   166.6  -9.000 -9.000 -9.000  747.  -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  300.4   2.0    0   0.00   56.  1002.     2 NAD-SFC NoSubs
10 10   2 275 12   179.0  -9.000 -9.000 -9.000  934.  -999. -99999.0  0.2235  0.72  0.19   0.00    0.0  15.0  302.0   2.0    0   0.00   50.  1001.     2 NAD-SFC NoSubs
10 10   2 275 13   176.4  -9.000 -9.000 -9.000 1052.  -999. -99999.0  0.2235  0.72  0.19   0.00    0.0  15.0  303.2   2.0    0   0.00   45.  1000.     2 NAD-SFC NoSubs
10 10   2 275 14   158.9   0.118  1.718  0.005 1139.    98.     -1.0  0.2720  0.72  0.20   0.50  317.0  15.0  304.2   2.0    0   0.00   42.   999.     2 NAD-SFC NoSubs
10 10   2 275 15   126.9   0.114  1.624  0.005 1204.    93.     -1.1  0.2720  0.72  0.21   0.50  315.0  15.0  304.9   2.0    0   0.00   39.   999.     2 NAD-SFC NoSubs
10 10   2 275 16    80.9   0.217  1.412  0.005 1242.   243.    -11.3  0.2940  0.72  0.24   1.50   12.0  15.0  303.9   2.0    0   0.00   41.   999.     2 NAD-SFC NoSubs
10 10   2 275 17    25.8   0.294  0.968  0.005 1252.   383.    -88.2  0.2940  0.72  0.34   2.60   16.0  15.0  303.2   2.0    0   0.00   49.   999.     2 NAD-SFC NoSubs
10 10   2 275 18   -29.0   0.304 -9.000 -9.000 -999.   402.     86.2  0.2930  0.72  0.69   3.10  342.0  15.0  302.2   2.0    0   0.00   53.  1000.     3 NAD-SFC NoSubs
10 10   2 275 19   -46.9   0.468 -9.000 -9.000 -999.   768.    194.9  0.2160  0.72  1.00   5.10  295.0  15.0  300.1   2.0    0   0.00   59.  1001.     3 NAD-SFC NoSubs
10 10   2 275 20   -37.8   0.373 -9.000 -9.000 -999.   553.    122.3  0.2160  0.72  1.00   4.10  294.0  15.0  296.8   2.0    0   0.00   69.  1001.     3 NAD-SFC NoSubs
10 10   2 275 21   -33.2   0.325 -9.000 -9.000 -999.   447.     92.8  0.2160  0.72  1.00   3.60  286.0  15.0  295.2   2.0    0   0.00   71.  1002.     3 NAD-SFC NoSubs
10 10   2 275 22   -30.3   0.297 -9.000 -9.000 -999.   388.     76.9  0.2720  0.72  1.00   3.10  314.0  15.0  294.5   2.0    0   0.00   72.  1002.     3 NAD-SFC NoSubs
10 10   2 275 23   -31.1   0.303 -9.000 -9.000 -999.   401.     80.2  0.2930  0.72  1.00   3.10  332.0  15.0  294.0   2.0    0   0.00   72.  1003.     3 NAD-SFC NoSubs
10 10   2 275 24   -31.2   0.303 -9.000 -9.000 -999.   401.     80.1  0.2930  0.72  1.00   3.10  348.0  15.0  293.5   2.0    0   0.00   72.  1003.     3 NAD-SFC NoSubs
10 10   3 276  1   -31.2   0.304 -9.000 -9.000 -999.   401.     80.1  0.2940  0.72  1.00   3.10    6.0  15.0  293.0   2.0    0   0.00   74.  1003.     3 NAD-SFC NoSubs
10 10   3 276  2   -31.3   0.304 -9.000 -9.000 -999.   401.     79.9  0.2940  0.72  1.00   3.10   19.0  15.0  292.5   2.0    0   0.00   75.  1003.     3 NAD-SFC NoSubs
10 10   3 276  3   -36.6   0.355 -9.000 -9.000 -999.   507.    109.1  0.2940  0.72  1.00   3.60   22.0  15.0  292.0   2.0    0   0.00   77.  1003.     3 NAD-SFC NoSubs
10 10   3 276  4   -36.7   0.355 -9.000 -9.000 -999.   507.    108.9  0.2940  0.72  1.00   3.60   22.0  15.0  291.4   2.0    0   0.00   79.  1003.     3 NAD-SFC NoSubs
10 10   3 276  5  -999.0  -9.000 -9.000 -9.000 -999.  -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  290.9   2.0    0   0.00   81.  1004.     3 NAD-SFC NoSubs
10 10   3 276  6   -36.8   0.354 -9.000 -9.000 -999.   507.    108.3  0.2930  0.72  1.00   3.60  346.0  15.0  290.4   2.0    0   0.00   83.  1004.     3 NAD-SFC NoSubs
10 10   3 276  7   -12.9   0.309 -9.000 -9.000 -999.   414.    204.7  0.2930  0.72  0.49   3.10  349.0  15.0  290.2   2.0    0   0.00   83.  1004.     3 NAD-SFC NoSubs
10 10   3 276  8    45.9   0.306  0.571  0.006  145.   406.    -55.9  0.2930  0.72  0.28   2.60  338.0  15.0  292.0   2.0    0   0.00   74.  1005.     3 NAD-SFC NoSubs
10 10   3 276  9    97.4   0.279  0.910  0.006  278.   354.    -20.0  0.2930  0.72  0.22   2.10  350.0  15.0  293.8   2.0    0   0.00   67.  1005.     3 NAD-SFC NoSubs
10 10   3 276 10   137.6   0.231  1.178  0.005  425.   266.     -8.0  0.2940  0.72  0.20   1.50    5.0  15.0  295.8   2.0    0   0.00   60.  1004.     3 NAD-SFC NoSubs
10 10   3 276 11   164.2   0.121  1.420  0.005  625.   107.     -1.0  0.2940  0.72  0.20   0.50    2.0  15.0  297.5   2.0    0   0.00   55.  1004.     3 NAD-SFC NoSubs
10 10   3 276 12   176.0  -9.000 -9.000 -9.000  851.  -999. -99999.0  0.2235  0.72  0.19   0.00    0.0  15.0  298.8   2.0    0   0.00   51.  1002.     2 NAD-SFC NoSubs
10 10   3 276 13   173.5   0.120  1.709  0.005 1029.    99.     -1.0  0.2720  0.72  0.19   0.50  305.0  15.0  300.0   2.0    0   0.00   47.  1001.     3 NAD-SFC NoSubs
10 10   3 276 14   155.8   0.118  1.712  0.005 1152.    97.     -1.0  0.2720  0.72  0.20   0.50  306.0  15.0  300.8   2.0    0   0.00   45.  1001.     3 NAD-SFC NoSubs
10 10   3 276 15   123.9   0.228  1.627  0.005 1242.   261.     -8.5  0.2930  0.72  0.21   1.50  334.0  15.0  301.2   2.0    0   0.00   44.  1000.     3 NAD-SFC NoSubs
10 10   3 276 16    78.9   0.319  1.420  0.005 1296.   433.    -36.8  0.2930  0.72  0.24   2.60  345.0  15.0  301.2   2.0    0   0.00   46.   999.     3 NAD-SFC NoSubs
10 10   3 276 17    24.5   0.340  0.966  0.005 1310.   476.   -143.2  0.2940  0.72  0.35   3.10    3.0  15.0  300.8   2.0    0   0.00   54.   999.     3 NAD-SFC NoSubs
10 10   3 276 18   -39.0   0.398 -9.000 -9.000 -999.   601.    143.6  0.2720  0.72  0.71   4.10  327.0  15.0  299.2   2.0    0   0.00   59.  1000.     3 NAD-SFC NoSubs
10 10   3 276 19   -42.6   0.420 -9.000 -9.000 -999.   653.    155.3  0.2160  0.72  1.00   4.60  295.0  15.0  296.5   2.0    0   0.00   67.  1001.     3 NAD-SFC NoSubs
10 10   3 276 20   -38.2   0.373 -9.000 -9.000 -999.   548.    121.1  0.2160  0.72  1.00   4.10  282.0  15.0  293.9   2.0    0   0.00   73.  1002.     3 NAD-SFC NoSubs
10 10   3 276 21   -38.4   0.373 -9.000 -9.000 -999.   546.    120.5  0.2160  0.72  1.00   4.10  289.0  15.0  292.6   2.0    0   0.00   75.  1003.     3 NAD-SFC NoSubs
10 10   3 276 22   -29.6   0.297 -9.000 -9.000 -999.   391.     79.2  0.2720  0.72  1.00   3.10  302.0  15.0  291.8   2.0    0   0.00   78.  1003.     4 NAD-SFC NoSubs
10 10   3 276 23   -24.2   0.247 -9.000 -9.000 -999.   295.     55.4  0.2720  0.72  1.00   2.60  304.0  15.0  291.2   2.0    0   0.00   79.  1004.     4 NAD-SFC NoSubs
10 10   3 276 24   -15.5   0.196 -9.000 -9.000 -999.   209.     43.3  0.2720  0.72  1.00   2.10  307.0  15.0  290.6   2.0    0   0.00   81.  1003.     4 NAD-SFC NoSubs
10 10   4 277  1   -26.6   0.279 -9.000 -9.000 -999.   353.     72.9  0.2160  0.72  1.00   3.10  298.0  15.0  289.8   2.0    0   0.00   84.  1003.     5 NAD-SFC NoSubs
10 10   4 277  2   -35.7   0.373 -9.000 -9.000 -999.   547.    130.3  0.2160  0.72  1.00   4.10  293.0  15.0  289.0   2.0    0   0.00   88.  1003.     5 NAD-SFC NoSubs
10 10   4 277  3   -29.3   0.326 -9.000 -9.000 -999.   449.    106.2  0.2160  0.72  1.00   3.60  290.0  15.0  288.5   2.0    0   0.00   90.  1003.     6 NAD-SFC NoSubs
10 10   4 277  4   -24.4   0.328 -9.000 -9.000 -999.   450.    128.9  0.2160  0.72  1.00   3.60  286.0  15.0  288.2   2.0    0   0.00   90.  1003.     8 NAD-SFC NoSubs
10 10   4 277  5   -18.1   0.330 -9.000 -9.000 -999.   454.    177.5  0.2160  0.72  1.00   3.60  288.0  15.0  288.2   2.0    0   0.00   89.  1003.    10 NAD-SFC NoSubs
10 10   4 277  6   -15.5   0.282 -9.000 -9.000 -999.   361.    130.1  0.2160  0.72  1.00   3.10  277.0  15.0  288.4   2.0    0   0.00   87.  1004.    10 NAD-SFC NoSubs
10 10   4 277  7    -8.4   0.224 -9.000 -9.000 -999.   256.    120.4  0.1750  0.72  0.49   2.60  264.0  15.0  288.5   2.0    0   0.00   87.  1005.    10 NAD-SFC NoSubs
10 10   4 277  8     8.0   0.254  0.288  0.006  106.   306.   -181.6  0.1950  0.72  0.28   2.60  239.0  15.0  288.8   2.0    0   0.00   86.  1005.    10 NAD-SFC NoSubs
10 10   4 277  9    21.2   0.219  0.447  0.007  151.   247.    -44.6  0.1750  0.72  0.22   2.10  244.0  15.0  289.6   2.0    0   0.00   84.  1005.    10 NAD-SFC NoSubs
10 10   4 277 10   109.0   0.294  0.981  0.006  311.   383.    -21.0  0.1750  0.72  0.20   2.60  268.0  15.0  290.2   2.0    0   0.00   77.  1005.     7 NAD-SFC NoSubs
10 10   4 277 11   144.3   0.208  1.276  0.006  516.   230.     -5.6  0.1750  0.72  0.20   1.50  268.0  15.0  290.8   2.0    0   0.00   73.  1005.     6 NAD-SFC NoSubs
10 10   4 277 12   138.5   0.110  1.391  0.006  697.    92.     -1.0  0.2160  0.72  0.19   0.50  286.0  15.0  291.2   2.0    0   0.00   70.  1005.     7 NAD-SFC NoSubs
10 10   4 277 13   151.4  -9.000 -9.000 -9.000  835.  -999. -99999.0  0.2235  0.72  0.19   0.00    0.0  15.0  291.6   2.0    0   0.00   68.  1004.     6 NAD-SFC NoSubs
10 10   4 277 14   144.5  -9.000 -9.000 -9.000  949.  -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  292.6   2.0    0   0.00   63.  1003.     5 NAD-SFC NoSubs
10 10   4 277 15   114.4  -9.000 -9.000 -9.000 1044.  -999. -99999.0  0.2235  0.72  0.21   0.00    0.0  15.0  293.2   2.0    0   0.00   58.  1002.     5 NAD-SFC NoSubs
10 10   4 277 16    72.1   0.164  1.305  0.005 1102.   160.     -5.5  0.2930  0.72  0.24   1.00  352.0  15.0  293.6   2.0    0   0.00   55.  1002.     5 NAD-SFC NoSubs
10 10   4 277 17    21.2   0.141  0.873  0.005 1119.   127.    -11.7  0.2720  0.72  0.35   1.00  312.0  15.0  293.4   2.0    0   0.00   58.  1001.     5 NAD-SFC NoSubs
10 10   4 277 18   -23.1   0.265 -9.000 -9.000 -999.   327.     71.6  0.1750  0.72  0.72   3.10  262.0  15.0  292.1   2.0    0   0.00   63.  1002.     6 NAD-SFC NoSubs
10 10   4 277 19   -42.3   0.444 -9.000 -9.000 -999.   710.    184.7  0.1750  0.72  1.00   5.10  258.0  15.0  289.8   2.0    0   0.00   74.  1003.     5 NAD-SFC NoSubs
10 10   4 277 20   -42.1   0.469 -9.000 -9.000 -999.   770.    219.0  0.2160  0.72  1.00   5.10  271.0  15.0  288.2   2.0    0   0.00   80.  1003.     6 NAD-SFC NoSubs
10 10   4 277 21   -33.1   0.400 -9.000 -9.000 -999.   610.    172.4  0.1750  0.72  1.00   4.60  269.0  15.0  287.5   2.0    0   0.00   83.  1003.     7 NAD-SFC NoSubs
10 10   4 277 22   -18.1   0.330 -9.000 -9.000 -999.   457.    176.8  0.2160  0.72  1.00   3.60  272.0  15.0  287.1   2.0    0   0.00   85.  1004.    10 NAD-SFC NoSubs
10 10   4 277 23   -14.7   0.267 -9.000 -9.000 -999.   334.    116.2  0.1750  0.72  1.00   3.10  257.0  15.0  287.0   2.0    0   0.00   85.  1004.    10 NAD-SFC NoSubs
10 10   4 277 24   -10.1   0.183 -9.000 -9.000 -999.   190.     54.2  0.1950  0.72  1.00   2.10  237.0  15.0  287.0   2.0    0   0.00   84.  1004.    10 NAD-SFC NoSubs
10 10   5 278  1    -4.9   0.125 -9.000 -9.000 -999.   106.     35.4  0.1810  0.72  1.00   1.50  178.0  15.0  286.9   2.0    0   0.00   85.  1004.    10 NAD-SFC NoSubs
10 10   5 278  2   -11.3   0.177 -9.000 -9.000 -999.   179.     43.9  0.1810  0.72  1.00   2.10  155.0  15.0  286.8   2.0    0   0.00   87.  1004.     8 NAD-SFC NoSubs
10 10   5 278  3   -12.6   0.229 -9.000 -9.000 -999.   264.     85.4  0.1970  0.72  1.00   2.60  124.0  15.0  286.8   2.0    0   0.00   88.  1004.    10 NAD-SFC NoSubs
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10 10   5 278   4  -15.5  0.281 -9.000 -9.000 -999.  358.    128.3  0.2130  0.72  1.00   3.10  118.0  15.0  286.5   2.0    0   0.00   90.  1004.    10 NAD-SFC NoSubs
10 10   5 278   5  -26.6  0.319 -9.000 -9.000 -999.  433.    109.3  0.1970  0.72  1.00   3.60  121.0  15.0  286.1   2.0    0   0.00   93.  1004.     7 NAD-SFC NoSubs
10 10   5 278   6  -17.8  0.322 -9.000 -9.000 -999.  438.    167.7  0.1970  0.72  1.00   3.60  120.0  15.0  285.9   2.0    0   0.00   93.  1004.    10 NAD-SFC NoSubs
10 10   5 278   7  -13.1  0.324 -9.000 -9.000 -999.  442.    233.1  0.1970  0.72  0.50   3.60  132.0  15.0  286.0   2.0    0   0.00   91.  1004.    10 NAD-SFC NoSubs
10 10   5 278   8   36.3  0.361  0.597  0.005  210.  519.   -115.5  0.1970  0.72  0.29   3.60  144.0  15.0  286.6   2.0    0   0.00   86.  1004.     7 NAD-SFC NoSubs
10 10   5 278   9   90.5  0.333  1.107  0.005  538.  462.    -36.6  0.1810  0.72  0.22   3.10  154.0  15.0  287.9   2.0    0   0.00   80.  1005.     5 NAD-SFC NoSubs
10 10   5 278  10  127.9  0.301  1.522  0.005  988.  396.    -19.0  0.1810  0.72  0.20   2.60  173.0  15.0  289.2   2.0    0   0.00   77.  1004.     5 NAD-SFC NoSubs
10 10   5 278  11  157.3  0.264  1.786  0.009 1300.  326.    -10.5  0.1810  0.72  0.20   2.10  178.0  15.0  290.4   2.0    0   0.00   72.  1004.     4 NAD-SFC NoSubs
10 10   5 278  12  168.4  0.269  1.867  0.009 1385.  334.    -10.3  0.1900  0.72  0.19   2.10  181.0  15.0  290.9   2.0    0   0.00   69.  1003.     4 NAD-SFC NoSubs
10 10   5 278  13  165.1  0.214  1.877  0.008 1436.  239.     -5.3  0.1900  0.72  0.19   1.50  202.0  15.0  291.2   2.0    0   0.00   67.  1003.     4 NAD-SFC NoSubs
10 10   5 278  14  121.0  0.161  1.707  0.008 1473.  156.     -3.1  0.1950  0.72  0.20   1.00  220.0  15.0  292.5   2.0    0   0.00   60.  1002.     7 NAD-SFC NoSubs
10 10   5 278  15   27.8  0.229  1.048  0.008 1482.  263.    -38.6  0.1950  0.72  0.21   2.10  221.0  15.0  293.0   2.0    0   0.00   57.  1002.    10 NAD-SFC NoSubs
10 10   5 278  16   16.3  0.305  0.879  0.008 1487.  404.   -155.0  0.1950  0.72  0.24   3.10  221.0  15.0  293.0   2.0    0   0.00   58.  1002.    10 NAD-SFC NoSubs
10 10   5 278  17   14.3  0.303  0.843  0.008 1490.  400.   -173.3  0.1950  0.72  0.36   3.10  214.0  15.0  292.4   2.0    0   0.25   65.  1002.     8 NAD-SFC NoSubs
10 10   5 278  18  -30.0  0.317 -9.000 -9.000 -999.  429.     95.5  0.1950  0.72  0.74   3.60  223.0  15.0  291.0   2.0    0   0.51   72.  1003.     5 NAD-SFC NoSubs
10 10   5 278  19  -31.8  0.317 -9.000 -9.000 -999.  428.     89.7  0.1950  0.72  1.00   3.60  228.0  15.0  289.8   2.0    0   0.25   78.  1003.     4 NAD-SFC NoSubs
10 10   5 278  20  -20.0  0.219 -9.000 -9.000 -999.  250.     46.8  0.1750  0.72  1.00   2.60  245.0  15.0  289.0   2.0    0   0.00   81.  1004.     4 NAD-SFC NoSubs
10 10   5 278  21  -12.8  0.173 -9.000 -9.000 -999.  174.     36.4  0.1750  0.72  1.00   2.10  240.0  15.0  288.8   2.0    0   0.00   82.  1004.     4 NAD-SFC NoSubs
10 10   5 278  22   -3.4  0.094 -9.000 -9.000 -999.   71.     22.0  0.1950  0.72  1.00   1.00  235.0  15.0  288.2   2.0    0   0.00   83.  1005.     4 NAD-SFC NoSubs
10 10   5 278  23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  288.0   2.0    0   0.00   84.  1005.     4 NAD-SFC NoSubs
10 10   5 278  24   -1.6  0.082 -9.000 -9.000 -999.   57.     31.5  0.2940  0.72  1.00   0.50   24.0  15.0  287.5   2.0    0   0.00   86.  1005.     4 NAD-SFC NoSubs
10 10   6 279   1   -3.9  0.101 -9.000 -9.000 -999.   77.     23.7  0.2930  0.72  1.00   1.00  340.0  15.0  287.1   2.0    0   0.00   89.  1005.     4 NAD-SFC NoSubs
10 10   6 279   2   -8.1  0.140 -9.000 -9.000 -999.  125.     30.2  0.2930  0.72  1.00   1.50  331.0  15.0  286.8   2.0    0   0.00   90.  1005.     4 NAD-SFC NoSubs
10 10   6 279   3  -16.3  0.200 -9.000 -9.000 -999.  215.     44.2  0.2930  0.72  1.00   2.10  335.0  15.0  286.2   2.0    0   0.00   90.  1006.     4 NAD-SFC NoSubs
10 10   6 279   4  -25.3  0.252 -9.000 -9.000 -999.  303.     56.5  0.2930  0.72  1.00   2.60  331.0  15.0  286.1   2.0    0   0.00   89.  1006.     4 NAD-SFC NoSubs
10 10   6 279   5  -30.9  0.303 -9.000 -9.000 -999.  401.     81.1  0.2930  0.72  1.00   3.10  340.0  15.0  286.1   2.0    0   0.00   88.  1006.     4 NAD-SFC NoSubs
10 10   6 279   6  -24.5  0.252 -9.000 -9.000 -999.  305.     59.0  0.2930  0.72  1.00   2.60  332.0  15.0  286.1   2.0    0   0.00   87.  1007.     5 NAD-SFC NoSubs
10 10   6 279   7  -10.9  0.252 -9.000 -9.000 -999.  303.    131.1  0.2720  0.72  0.50   2.60  311.0  15.0  286.0   2.0    0   0.00   87.  1007.     5 NAD-SFC NoSubs
10 10   6 279   8   41.4  0.253  0.551  0.005  145.  306.    -35.3  0.2720  0.72  0.29   2.10  305.0  15.0  286.1   2.0    0   0.25   87.  1008.     5 NAD-SFC NoSubs
10 10   6 279   9   89.2  0.272  0.935  0.005  330.  340.    -20.3  0.2720  0.72  0.22   2.10  311.0  15.0  286.8   2.0    0   0.25   85.  1008.     5 NAD-SFC NoSubs
10 10   6 279  10  130.4  0.225  1.319  0.005  634.  257.     -7.9  0.2720  0.72  0.20   1.50  304.0  15.0  287.9   2.0    0   0.00   81.  1008.     4 NAD-SFC NoSubs
10 10   6 279  11  156.1  0.107  1.637  0.005 1012.   93.     -1.0  0.1750  0.72  0.20   0.50  266.0  15.0  289.9   2.0    0   0.00   69.  1008.     4 NAD-SFC NoSubs
10 10   6 279  12  167.4  0.164  1.818  0.005 1291.  159.     -2.3  0.1750  0.72  0.19   1.00  263.0  15.0  291.2   2.0    0   0.00   61.  1007.     4 NAD-SFC NoSubs
10 10   6 279  13  163.9  0.275  1.882  0.005 1461.  346.    -11.4  0.2160  0.72  0.19   2.10  274.0  15.0  291.4   2.0    0   0.00   61.  1006.     4 NAD-SFC NoSubs
10 10   6 279  14  146.4  0.177  1.863  0.005 1588.  183.     -3.4  0.2720  0.72  0.20   1.00  302.0  15.0  292.2   2.0    0   0.00   58.  1006.     4 NAD-SFC NoSubs
10 10   6 279  15  114.9  0.175  1.752  0.005 1682.  175.     -4.1  0.2930  0.72  0.21   1.00  352.0  15.0  292.9   2.0    0   0.00   55.  1005.     4 NAD-SFC NoSubs
10 10   6 279  16   69.1  0.213  1.495  0.005 1735.  236.    -12.6  0.2930  0.72  0.24   1.50  353.0  15.0  293.0   2.0    0   0.00   55.  1005.     5 NAD-SFC NoSubs
10 10   6 279  17   13.1  0.212  0.860  0.005 1740.  235.    -65.3  0.1750  0.72  0.36   2.10  248.0  15.0  291.5   2.0    0   0.76   69.  1005.     8 NAD-SFC NoSubs
10 10   6 279  18  -22.5  0.272 -9.000 -9.000 -999.  341.     80.6  0.1950  0.72  0.76   3.10  229.0  15.0  289.2   2.0    0   2.79   87.  1006.     7 NAD-SFC NoSubs
10 10   6 279  19  -11.7  0.175 -9.000 -9.000 -999.  180.     40.9  0.1750  0.72  1.00   2.10  245.0  15.0  288.4   2.0    0   3.81   94.  1007.     7 NAD-SFC NoSubs
10 10   6 279  20   -9.7  0.178 -9.000 -9.000 -999.  180.     51.8  0.1750  0.72  1.00   2.10  247.0  15.0  288.2   2.0    0   3.30   96.  1007.    10 NAD-SFC NoSubs
10 10   6 279  21   -5.6  0.122 -9.000 -9.000 -999.  103.     29.5  0.1750  0.72  1.00   1.50  263.0  15.0  288.2   2.0    0   2.03   96.  1008.     8 NAD-SFC NoSubs
10 10   6 279  22   -6.7  0.129 -9.000 -9.000 -999.  111.     28.7  0.2160  0.72  1.00   1.50  279.0  15.0  288.2   2.0    0   0.51   94.  1008.     6 NAD-SFC NoSubs
10 10   6 279  23   -1.4  0.078 -9.000 -9.000 -999.   52.     30.2  0.2720  0.72  1.00   0.50  316.0  15.0  288.4   2.0    0   0.00   90.  1008.     6 NAD-SFC NoSubs
10 10   6 279  24   -1.3  0.074 -9.000 -9.000 -999.   49.     29.3  0.2470  0.72  1.00   0.50   42.0  15.0  288.2   2.0    0   0.00   89.  1008.     7 NAD-SFC NoSubs
10 10   7 280   1   -1.1  0.071 -9.000 -9.000 -999.   46.     28.4  0.2470  0.72  1.00   0.50   59.0  15.0  287.6   2.0    0   0.00   91.  1009.     8 NAD-SFC NoSubs
10 10   7 280   2   -1.2  0.073 -9.000 -9.000 -999.   47.     28.9  0.2090  0.72  1.00   0.50   74.0  15.0  286.9   2.0    0   0.00   93.  1009.     7 NAD-SFC NoSubs
10 10   7 280   3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  286.2   2.0    0   0.00   94.  1009.     6 NAD-SFC NoSubs
10 10   7 280   4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  285.8   2.0    0   0.00   95.  1010.     6 NAD-SFC NoSubs
10 10   7 280   5   -1.5  0.080 -9.000 -9.000 -999.   54.     30.9  0.2720  0.72  1.00   0.50  301.0  15.0  285.5   2.0    0   0.00   95.  1010.     5 NAD-SFC NoSubs
10 10   7 280   6   -3.2  0.091 -9.000 -9.000 -999.   66.     21.6  0.1750  0.72  1.00   1.00  258.0  15.0  285.2   2.0    0   0.00   94.  1010.     5 NAD-SFC NoSubs
10 10   7 280   7   -8.5  0.178 -9.000 -9.000 -999.  181.     60.3  0.1750  0.72  0.51   2.10  256.0  15.0  284.9   2.0    0   0.00   92.  1011.     5 NAD-SFC NoSubs
10 10   7 280   8   40.6  0.144  0.676  0.005  274.  131.     -6.6  0.2160  0.72  0.29   1.00  277.0  15.0  286.1   2.0    0   0.00   84.  1011.     5 NAD-SFC NoSubs
10 10   7 280   9   91.0 -9.000 -9.000 -9.000  502. -999. -99999.0  0.2235  0.72  0.22   0.00    0.0  15.0  287.8   2.0    0   0.00   78.  1011.     4 NAD-SFC NoSubs
10 10   7 280  10  131.0 -9.000 -9.000 -9.000  710. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  289.2   2.0    0   0.00   72.  1011.     3 NAD-SFC NoSubs
10 10   7 280  11  157.0 -9.000 -9.000 -9.000  904. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  290.6   2.0    0   0.00   66.  1011.     3 NAD-SFC NoSubs
10 10   7 280  12  168.4 -9.000 -9.000 -9.000 1044. -999. -99999.0  0.2235  0.72  0.19   0.00    0.0  15.0  291.8   2.0    0   0.00   60.  1010.     3 NAD-SFC NoSubs
10 10   7 280  13  165.2 -9.000 -9.000 -9.000 1150. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  292.9   2.0    0   0.00   56.  1009.     3 NAD-SFC NoSubs
10 10   7 280  14  146.7 -9.000 -9.000 -9.000 1235. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  293.8   2.0    0   0.00   52.  1009.     2 NAD-SFC NoSubs
10 10   7 280  15  114.9  0.174  1.606  0.005 1299.  175.     -4.2  0.2930  0.72  0.21   1.00  337.0  15.0  294.2   2.0    0   0.00   50.  1008.     3 NAD-SFC NoSubs
10 10   7 280  16   68.1 -9.000 -9.000 -9.000 1334. -999. -99999.0  0.2235  0.72  0.25   0.00    0.0  15.0  293.5   2.0    0   0.00   49.  1008.     2 NAD-SFC NoSubs
10 10   7 280  17   13.7  0.284  0.799  0.005 1340.  364.   -151.0  0.2940  0.72  0.37   2.60   22.0  15.0  293.1   2.0    0   0.00   57.  1008.     2 NAD-SFC NoSubs
10 10   7 280  18  -37.8  0.355 -9.000 -9.000 -999.  507.    106.3  0.2940  0.72  0.77   3.60   17.0  15.0  292.2   2.0    0   0.00   61.  1009.     2 NAD-SFC NoSubs
10 10   7 280  19  -26.0  0.252 -9.000 -9.000 -999.  309.     55.2  0.2940  0.72  1.00   2.60   27.0  15.0  291.2   2.0    0   0.00   65.  1009.     2 NAD-SFC NoSubs
10 10   7 280  20   -7.7  0.133 -9.000 -9.000 -999.  125.     27.7  0.2470  0.72  1.00   1.50   39.0  15.0  290.2   2.0    0   0.00   69.  1009.     2 NAD-SFC NoSubs
10 10   7 280  21   -1.5  0.081 -9.000 -9.000 -999.   56.     31.4  0.2090  0.72  1.00   0.50   76.0  15.0  289.2   2.0    0   0.00   74.  1010.     2 NAD-SFC NoSubs
10 10   7 280  22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  288.1   2.0    0   0.00   79.  1010.     2 NAD-SFC NoSubs
10 10   7 280  23   -1.7  0.084 -9.000 -9.000 -999.   58.     32.0  0.2720  0.72  1.00   0.50  315.0  15.0  287.2   2.0    0   0.00   83.  1011.     2 NAD-SFC NoSubs
10 10   7 280  24   -1.7  0.085 -9.000 -9.000 -999.   59.     32.2  0.2930  0.72  1.00   0.50  341.0  15.0  286.6   2.0    0   0.00   86.  1010.     2 NAD-SFC NoSubs
10 10   8 281   1   -1.7  0.085 -9.000 -9.000 -999.   59.     32.2  0.2940  0.72  1.00   0.50   25.0  15.0  286.1   2.0    0   0.00   89.  1010.     2 NAD-SFC NoSubs
10 10   8 281   2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  285.8   2.0    0   0.00   90.  1010.     2 NAD-SFC NoSubs
10 10   8 281   3   -1.6  0.082 -9.000 -9.000 -999.   56.     31.6  0.2160  0.72  1.00   0.50  270.0  15.0  285.5   2.0    0   0.00   92.  1010.     2 NAD-SFC NoSubs
10 10   8 281   4   -7.3  0.129 -9.000 -9.000 -999.  111.     26.2  0.2160  0.72  1.00   1.50  281.0  15.0  285.2   2.0    0   0.00   92.  1010.     2 NAD-SFC NoSubs
10 10   8 281   5   -7.3  0.129 -9.000 -9.000 -999.  111.     26.2  0.2160  0.72  1.00   1.50  276.0  15.0  285.1   2.0    0   0.00   92.  1010.     2 NAD-SFC NoSubs
10 10   8 281   6   -7.4  0.129 -9.000 -9.000 -999.  111.     26.2  0.2160  0.72  1.00   1.50  285.0  15.0  284.8   2.0    0   0.00   93.  1011.     2 NAD-SFC NoSubs
10 10   8 281   7   -5.8  0.129 -9.000 -9.000 -999.  112.     33.6  0.2160  0.72  0.51   1.50  291.0  15.0  284.6   2.0    0   0.00   93.  1011.     2 NAD-SFC NoSubs
10 10   8 281   8   38.0  0.197  0.534  0.005  144.  210.    -18.2  0.2720  0.72  0.29   1.50  319.0  15.0  286.2   2.0    0   0.00   84.  1011.     2 NAD-SFC NoSubs
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10 10   8 281   9   89.6 -9.000 -9.000 -9.000  335. -999. -99999.0 0.2235  0.72  0.22  0.00   0.0  15.0 288.2  2.0   0  0.00  73.  1012.    2 NAD-SFC NoSubs
10 10   8 281  10  129.6 -9.000 -9.000 -9.000  623. -999. -99999.0 0.2235  0.72  0.20  0.00   0.0  15.0 289.9  2.0   0  0.00  66.  1011.    2 NAD-SFC NoSubs
10 10   8 281  11  155.9 -9.000 -9.000 -9.000  800. -999. -99999.0 0.2235  0.72  0.20  0.00   0.0  15.0 291.6  2.0   0  0.00  59.  1011.    2 NAD-SFC NoSubs
10 10   8 281  12  167.5 -9.000 -9.000 -9.000  946. -999. -99999.0 0.2235  0.72  0.19  0.00   0.0  15.0 293.0  2.0   0  0.00  55.  1010.    2 NAD-SFC NoSubs
10 10   8 281  13  164.2 -9.000 -9.000 -9.000 1037. -999. -99999.0 0.2235  0.72  0.20  0.00   0.0  15.0 294.2  2.0   0  0.00  51.  1009.    2 NAD-SFC NoSubs
10 10   8 281  14  146.0  0.119  1.648  0.010 1104.   98.     -1.0 0.2930  0.72  0.20  0.50 339.0  15.0 295.1  2.0   0  0.00  49.  1008.    2 NAD-SFC NoSubs
10 10   8 281  15  113.4  0.174  1.537  0.010 1154.  174.     -4.2 0.2930  0.72  0.21  1.00 353.0  15.0 295.8  2.0   0  0.00  47.  1008.    2 NAD-SFC NoSubs
10 10   8 281  16   67.7  0.213  1.305  0.010 1182.  235.    -12.8 0.2940  0.72  0.25  1.50   5.0  15.0 295.9  2.0   0  0.00  46.  1008.    2 NAD-SFC NoSubs
10 10   8 281  17   13.4  0.238  0.764  0.010 1188.  278.    -89.5 0.2940  0.72  0.37  2.10   8.0  15.0 295.8  2.0   0  0.00  51.  1007.    2 NAD-SFC NoSubs
10 10   8 281  18  -16.6  0.200 -9.000 -9.000 -999.  215.     43.4 0.2940  0.72  1.00  2.10  24.0  15.0 294.8  2.0   0  0.00  55.  1008.    2 NAD-SFC NoSubs
10 10   8 281  19   -7.7  0.133 -9.000 -9.000 -999.  118.     27.8 0.2470  0.72  1.00  1.50  40.0  15.0 293.5  2.0   0  0.00  60.  1009.    2 NAD-SFC NoSubs
10 10   8 281  20   -1.5  0.081 -9.000 -9.000 -999.   55.     31.3 0.2090  0.72  1.00  0.50  67.0  15.0 292.2  2.0   0  0.00  65.  1009.    2 NAD-SFC NoSubs
10 10   8 281  21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 290.8  2.0   0  0.00  72.  1009.    2 NAD-SFC NoSubs
10 10   8 281  22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 289.8  2.0   0  0.00  77.  1010.    2 NAD-SFC NoSubs
10 10   8 281  23   -1.6  0.084 -9.000 -9.000 -999.   58.     32.0 0.2720  0.72  1.00  0.50 317.0  15.0 288.8  2.0   0  0.00  81.  1010.    2 NAD-SFC NoSubs
10 10   8 281  24   -1.6  0.084 -9.000 -9.000 -999.   58.     32.0 0.2720  0.72  1.00  0.50 311.0  15.0 288.2  2.0   0  0.00  82.  1011.    2 NAD-SFC NoSubs
10 10   9 282   1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 287.8  2.0   0  0.00  84.  1011.    2 NAD-SFC NoSubs
10 10   9 282   2   -1.7  0.084 -9.000 -9.000 -999.   58.     32.0 0.2720  0.72  1.00  0.50 313.0  15.0 287.2  2.0   0  0.00  85.  1011.    2 NAD-SFC NoSubs
10 10   9 282   3   -4.0  0.101 -9.000 -9.000 -999.   77.     23.3 0.2720  0.72  1.00  1.00 314.0  15.0 286.9  2.0   0  0.00  86.  1011.    2 NAD-SFC NoSubs
10 10   9 282   4   -4.0  0.101 -9.000 -9.000 -999.   77.     23.3 0.2720  0.72  1.00  1.00 322.0  15.0 286.6  2.0   0  0.00  87.  1011.    2 NAD-SFC NoSubs
10 10   9 282   5   -4.0  0.101 -9.000 -9.000 -999.   77.     23.3 0.2720  0.72  1.00  1.00 317.0  15.0 286.2  2.0   0  0.00  89.  1011.    2 NAD-SFC NoSubs
10 10   9 282   6   -1.7  0.084 -9.000 -9.000 -999.   58.     32.1 0.2720  0.72  1.00  0.50 326.0  15.0 285.9  2.0   0  0.00  92.  1012.    2 NAD-SFC NoSubs
10 10   9 282   7   17.8 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  0.52  0.00   0.0  15.0 285.5  2.0   0  0.00  95.  1012.    2 NAD-SFC NoSubs
10 10   9 282   8   37.3 -9.000 -9.000 -9.000  188. -999. -99999.0 0.2235  0.72  0.29  0.00   0.0  15.0 287.0  2.0   0  0.00  90.  1012.    2 NAD-SFC NoSubs
10 10   9 282   9   88.8 -9.000 -9.000 -9.000  350. -999. -99999.0 0.2235  0.72  0.22  0.00   0.0  15.0 289.0  2.0   0  0.00  80.  1012.    2 NAD-SFC NoSubs
10 10   9 282  10  128.8 -9.000 -9.000 -9.000  530. -999. -99999.0 0.2235  0.72  0.20  0.00   0.0  15.0 290.9  2.0   0  0.00  70.  1011.    2 NAD-SFC NoSubs
10 10   9 282  11  155.1 -9.000 -9.000 -9.000  681. -999. -99999.0 0.2235  0.72  0.20  0.00   0.0  15.0 292.5  2.0   0  0.00  64.  1010.    2 NAD-SFC NoSubs
10 10   9 282  12  166.8 -9.000 -9.000 -9.000  774. -999. -99999.0 0.2235  0.72  0.19  0.00   0.0  15.0 294.2  2.0   0  0.00  56.  1009.    2 NAD-SFC NoSubs
10 10   9 282  13  163.6  0.119  1.573  0.011  857.   98.     -1.0 0.2720  0.72  0.20  0.50 318.0  15.0 295.8  2.0   0  0.00  49.  1008.    2 NAD-SFC NoSubs
10 10   9 282  14  145.4  0.232  1.552  0.010  924.  268.     -7.7 0.2930  0.72  0.20  1.50 342.0  15.0 296.8  2.0   0  0.00  46.  1007.    2 NAD-SFC NoSubs
10 10   9 282  15  112.6  0.283  1.450  0.010  972.  361.    -18.1 0.2930  0.72  0.21  2.10 355.0  15.0 297.1  2.0   0  0.00  44.  1007.    2 NAD-SFC NoSubs
10 10   9 282  16   66.8  0.315  1.229  0.010  999.  425.    -42.1 0.2940  0.72  0.25  2.60   5.0  15.0 297.1  2.0   0  0.00  44.  1006.    2 NAD-SFC NoSubs
10 10   9 282  17   12.6 -9.000 -9.000 -9.000 1003. -999. -99999.0 0.2235  0.72  0.38  0.00   0.0  15.0 296.8  2.0   0  0.00  50.  1006.    2 NAD-SFC NoSubs
10 10   9 282  18  -16.5  0.200 -9.000 -9.000 -999.  215.     43.5 0.2940  0.72  1.00  2.10  17.0  15.0 295.8  2.0   0  0.00  53.  1007.    2 NAD-SFC NoSubs
10 10   9 282  19   -3.8  0.099 -9.000 -9.000 -999.   80.     22.9 0.2470  0.72  1.00  1.00  51.0  15.0 294.4  2.0   0  0.00  58.  1007.    2 NAD-SFC NoSubs
10 10   9 282  20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 293.0  2.0   0  0.00  64.  1007.    2 NAD-SFC NoSubs
10 10   9 282  21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 291.8  2.0   0  0.00  70.  1007.    2 NAD-SFC NoSubs
10 10   9 282  22   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4 0.2090  0.72  1.00  0.50  86.0  15.0 290.8  2.0   0  0.00  75.  1007.    2 NAD-SFC NoSubs
10 10   9 282  23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 289.8  2.0   0  0.00  79.  1007.    2 NAD-SFC NoSubs
10 10   9 282  24   -1.5  0.081 -9.000 -9.000 -999.   56.     31.5 0.2160  0.72  1.00  0.50 274.0  15.0 289.2  2.0   0  0.00  81.  1007.    2 NAD-SFC NoSubs
10 10  10 283   1   -3.4  0.094 -9.000 -9.000 -999.   69.     21.7 0.1750  0.72  1.00  1.00 259.0  15.0 288.9  2.0   0  0.00  80.  1008.    2 NAD-SFC NoSubs
10 10  10 283   2   -3.4  0.094 -9.000 -9.000 -999.   69.     21.7 0.1750  0.72  1.00  1.00 249.0  15.0 288.8  2.0   0  0.00  78.  1008.    2 NAD-SFC NoSubs
10 10  10 283   3   -3.5  0.095 -9.000 -9.000 -999.   71.     22.1 0.1950  0.72  1.00  1.00 234.0  15.0 288.6  2.0   0  0.00  79.  1008.    2 NAD-SFC NoSubs
10 10  10 283   4   -3.5  0.095 -9.000 -9.000 -999.   71.     22.1 0.1950  0.72  1.00  1.00 231.0  15.0 288.4  2.0   0  0.00  80.  1008.    2 NAD-SFC NoSubs
10 10  10 283   5   -7.0  0.126 -9.000 -9.000 -999.  107.     25.5 0.1950  0.72  1.00  1.50 229.0  15.0 288.4  2.0   0  0.00  80.  1008.    2 NAD-SFC NoSubs
10 10  10 283   6   -7.0  0.126 -9.000 -9.000 -999.  107.     25.5 0.1950  0.72  1.00  1.50 232.0  15.0 288.8  2.0   0  0.00  78.  1008.    2 NAD-SFC NoSubs
10 10  10 283   7   -5.6  0.126 -9.000 -9.000 -999.  107.     31.9 0.1950  0.72  0.53  1.50 233.0  15.0 289.0  2.0   0  0.00  76.  1008.    2 NAD-SFC NoSubs
10 10  10 283   8   37.0  0.179  0.470  0.009  100.  182.    -14.0 0.1750  0.72  0.30  1.50 242.0  15.0 289.2  2.0   0  0.00  74.  1008.    2 NAD-SFC NoSubs
10 10  10 283   9   88.0  0.197  0.865  0.009  264.  209.     -7.7 0.1750  0.72  0.23  1.50 256.0  15.0 289.9  2.0   0  0.00  71.  1007.    2 NAD-SFC NoSubs
10 10  10 283  10  128.0  0.225  1.165  0.010  444.  256.     -8.0 0.2720  0.72  0.20  1.50 312.0  15.0 291.8  2.0   0  0.00  62.  1007.    2 NAD-SFC NoSubs
10 10  10 283  11  154.3  0.112  1.369  0.010  598.   97.     -1.0 0.2160  0.72  0.20  0.50 285.0  15.0 293.4  2.0   0  0.00  55.  1007.    2 NAD-SFC NoSubs
10 10  10 283  12  166.0  0.113  1.489  0.010  714.   91.     -1.0 0.2160  0.72  0.20  0.50 277.0  15.0 295.2  2.0   0  0.00  48.  1005.    2 NAD-SFC NoSubs
10 10  10 283  13  162.6 -9.000 -9.000 -9.000  801. -999. -99999.0 0.2235  0.72  0.20  0.00   0.0  15.0 296.4  2.0   0  0.00  44.  1004.    2 NAD-SFC NoSubs
10 10  10 283  14  144.4 -9.000 -9.000 -9.000  871. -999. -99999.0 0.2235  0.72  0.20  0.00   0.0  15.0 297.5  2.0   0  0.00  42.  1003.    2 NAD-SFC NoSubs
10 10  10 283  15  111.9 -9.000 -9.000 -9.000  923. -999. -99999.0 0.2235  0.72  0.21  0.00   0.0  15.0 298.4  2.0   0  0.00  40.  1002.    2 NAD-SFC NoSubs
10 10  10 283  16   66.1  0.099  1.207  0.009  951.   75.     -1.3 0.2130  0.72  0.25  0.50 104.0  15.0 298.8  2.0   0  0.00  39.  1002.    2 NAD-SFC NoSubs
10 10  10 283  17   12.1  0.166  0.687  0.009  956.  163.    -33.9 0.1970  0.72  0.38  1.50 138.0  15.0 298.4  2.0   0  0.00  45.  1001.    2 NAD-SFC NoSubs
10 10  10 283  18  -27.6  0.266 -9.000 -9.000 -999.  328.     60.6 0.1810  0.72  1.00  3.10 162.0  15.0 297.0  2.0   0  0.00  50.  1002.    2 NAD-SFC NoSubs
10 10  10 283  19  -32.5  0.311 -9.000 -9.000 -999.  416.     82.4 0.1810  0.72  1.00  3.60 175.0  15.0 295.2  2.0   0  0.00  57.  1002.    2 NAD-SFC NoSubs
10 10  10 283  20  -37.4  0.356 -9.000 -9.000 -999.  509.    107.6 0.1810  0.72  1.00  4.10 170.0  15.0 294.0  2.0   0  0.00  61.  1001.    2 NAD-SFC NoSubs
10 10  10 283  21  -32.7  0.311 -9.000 -9.000 -999.  417.     81.9 0.1810  0.72  1.00  3.60 172.0  15.0 293.5  2.0   0  0.00  62.  1001.    2 NAD-SFC NoSubs
10 10  10 283  22  -20.7  0.220 -9.000 -9.000 -999.  251.     46.0 0.1810  0.72  1.00  2.60 165.0  15.0 292.8  2.0   0  0.00  63.  1001.    2 NAD-SFC NoSubs
10 10  10 283  23   -3.5  0.095 -9.000 -9.000 -999.   82.     22.1 0.1970  0.72  1.00  1.00 148.0  15.0 292.0  2.0   0  0.00  66.  1001.    2 NAD-SFC NoSubs
10 10  10 283  24   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4 0.2090  0.72  1.00  0.50  85.0  15.0 291.1  2.0   0  0.00  69.  1001.    2 NAD-SFC NoSubs
10 10  11 284   1   -1.6  0.082 -9.000 -9.000 -999.   57.     31.7 0.2470  0.72  1.00  0.50  54.0  15.0 290.2  2.0   0  0.00  72.  1001.    2 NAD-SFC NoSubs
10 10  11 284   2   -1.6  0.082 -9.000 -9.000 -999.   57.     31.8 0.2470  0.72  1.00  0.50  45.0  15.0 289.8  2.0   0  0.00  74.  1001.    2 NAD-SFC NoSubs
10 10  11 284   3   -1.7  0.084 -9.000 -9.000 -999.   59.     32.1 0.2940  0.72  1.00  0.50  19.0  15.0 289.5  2.0   0  0.00  75.  1001.    2 NAD-SFC NoSubs
10 10  11 284   4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00   0.0  15.0 289.1  2.0   0  0.00  76.  1001.    2 NAD-SFC NoSubs
10 10  11 284   5   -1.5  0.081 -9.000 -9.000 -999.   56.     31.5 0.2160  0.72  1.00  0.50 284.0  15.0 288.8  2.0   0  0.00  77.  1001.    2 NAD-SFC NoSubs
10 10  11 284   6   -3.6  0.097 -9.000 -9.000 -999.   72.     22.4 0.2160  0.72  1.00  1.00 282.0  15.0 288.8  2.0   0  0.00  76.  1002.    2 NAD-SFC NoSubs
10 10  11 284   7   -2.5  0.085 -9.000 -9.000 -999.   60.     21.9 0.1750  0.72  0.53  1.00 247.0  15.0 288.8  2.0   0  0.00  77.  1002.    2 NAD-SFC NoSubs
10 10  11 284   8   36.0  0.139  0.431  0.010   79.  124.     -6.6 0.1950  0.72  0.30  1.00 220.0  15.0 289.0  2.0   0  0.00  78.  1002.    2 NAD-SFC NoSubs
10 10  11 284   9   87.2  0.154  0.799  0.009  209.  145.     -3.8 0.1950  0.72  0.23  1.00 219.0  15.0 290.4  2.0   0  0.00  76.  1002.    2 NAD-SFC NoSubs
10 10  11 284  10  127.3  0.104  1.153  0.011  430.   81.     -1.0 0.1750  0.72  0.20  0.50 241.0  15.0 292.8  2.0   0  0.00  71.  1002.    2 NAD-SFC NoSubs
10 10  11 284  11  153.6 -9.000 -9.000 -9.000  575. -999. -99999.0 0.2235  0.72  0.20  0.00   0.0  15.0 294.6  2.0   0  0.00  65.  1001.    2 NAD-SFC NoSubs
10 10  11 284  12  165.5 -9.000 -9.000 -9.000  689. -999. -99999.0 0.2235  0.72  0.20  0.00   0.0  15.0 296.8  2.0   0  0.00  54.  1001.    2 NAD-SFC NoSubs
10 10  11 284  13  162.1 -9.000 -9.000 -9.000  769. -999. -99999.0 0.2235  0.72  0.20  0.00   0.0  15.0 297.9  2.0   0  0.00  49.  1000.    2 NAD-SFC NoSubs
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10 10 11 284 14  143.4  0.180  1.495  0.007  832.  183.    -3.6  0.2930  0.72  0.20  1.00  347.0  15.0  298.2  2.0  0  0.00  48.  1000.  2 NAD-SFC NoSubs
10 10 11 284 15  110.5  0.225  1.395  0.007  877.  256.    -9.2  0.2940  0.72  0.21  1.50   10.0  15.0  298.4  2.0  0  0.00  52.  1000.  2 NAD-SFC NoSubs
10 10 11 284 16   64.3  0.314  1.176  0.006  902.  423.   -43.1  0.2940  0.72  0.25  2.60   19.0  15.0  298.0  2.0  0  0.00  57.  1000.  2 NAD-SFC NoSubs
10 10 11 284 17   10.2  0.281  0.637  0.006  905.  358.  -194.1  0.2940  0.72  0.39  2.60   20.0  15.0  297.1  2.0  0  0.00  64.  1000.  2 NAD-SFC NoSubs
10 10 11 284 18   -8.2  0.140 -9.000 -9.000 -999.  139.    29.8  0.2930  0.72  1.00  1.50  355.0  15.0  296.2  2.0  0  0.00  68.  1000.  2 NAD-SFC NoSubs
10 10 11 284 19   -1.4  0.079 -9.000 -9.000 -999.   54.    30.8  0.1750  0.72  1.00  0.50  254.0  15.0  295.2  2.0  0  0.00  71.  1001.  2 NAD-SFC NoSubs
10 10 11 284 20   -1.5  0.080 -9.000 -9.000 -999.   54.    31.1  0.1950  0.72  1.00  0.50  226.0  15.0  294.5  2.0  0  0.00  75.  1001.  2 NAD-SFC NoSubs
10 10 11 284 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  293.8  2.0  0  0.00  78.  1001.  2 NAD-SFC NoSubs
10 10 11 284 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  293.2  2.0  0  0.00  80.  1002.  2 NAD-SFC NoSubs
10 10 11 284 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  292.8  2.0  0  0.00  83.  1002.  2 NAD-SFC NoSubs
10 10 11 284 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  292.1  2.0  0  0.00  86.  1002.  2 NAD-SFC NoSubs
10 10 12 285  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  291.8  2.0  0  0.00  87.  1002.  2 NAD-SFC NoSubs
10 10 12 285  2   -3.9  0.101 -9.000 -9.000 -999.   77.    23.3  0.2720  0.72  1.00  1.00  312.0  15.0  291.5  2.0  0  0.00  87.  1002.  2 NAD-SFC NoSubs
10 10 12 285  3   -8.0  0.137 -9.000 -9.000 -999.  122.    28.7  0.2720  0.72  1.00  1.50  306.0  15.0  291.2  2.0  0  0.00  87.  1003.  2 NAD-SFC NoSubs
10 10 12 285  4  -24.9  0.246 -9.000 -9.000 -999.  293.    53.5  0.2720  0.72  1.00  2.60  306.0  15.0  291.0  2.0  0  0.00  85.  1003.  2 NAD-SFC NoSubs
10 10 12 285  5  -29.6  0.278 -9.000 -9.000 -999.  352.    64.9  0.2160  0.72  1.00  3.10  298.0  15.0  290.8  2.0  0  0.00  83.  1004.  2 NAD-SFC NoSubs
10 10 12 285  6  -24.9  0.246 -9.000 -9.000 -999.  293.    53.4  0.2720  0.72  1.00  2.60  305.0  15.0  290.5  2.0  0  0.00  80.  1004.  2 NAD-SFC NoSubs
10 10 12 285  7  -12.1  0.186 -9.000 -9.000 -999.  193.    47.5  0.2160  0.72  0.54  2.10  290.0  15.0  290.2  2.0  0  0.00  78.  1005.  2 NAD-SFC NoSubs
10 10 12 285  8   35.7  0.187  0.462  0.012   98.  194.   -16.3  0.2160  0.72  0.30  1.50  284.0  15.0  291.2  2.0  0  0.00  72.  1005.  2 NAD-SFC NoSubs
10 10 12 285  9   87.3  0.205  0.785  0.011  198.  223.    -8.9  0.2160  0.72  0.23  1.50  293.0  15.0  293.8  2.0  0  0.00  60.  1005.  2 NAD-SFC NoSubs
10 10 12 285 10  127.7  0.165  1.065  0.009  339.  162.    -3.2  0.2160  0.72  0.20  1.00  273.0  15.0  296.1  2.0  0  0.00  54.  1005.  2 NAD-SFC NoSubs
10 10 12 285 11  154.3 -9.000 -9.000 -9.000  483. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  298.4  2.0  0  0.00  48.  1005.  2 NAD-SFC NoSubs
10 10 12 285 12  166.3 -9.000 -9.000 -9.000  618. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  300.6  2.0  0  0.00  40.  1004.  2 NAD-SFC NoSubs
10 10 12 285 13  163.0 -9.000 -9.000 -9.000  748. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  301.9  2.0  0  0.00  37.  1004.  2 NAD-SFC NoSubs
10 10 12 285 14  144.6  0.180  1.512  0.006  856.  183.    -3.6  0.2940  0.72  0.20  1.00   17.0  15.0  302.8  2.0  0  0.00  35.  1003.  2 NAD-SFC NoSubs
10 10 12 285 15  111.7  0.225  1.427  0.005  931.  256.    -9.1  0.2940  0.72  0.21  1.50   25.0  15.0  303.1  2.0  0  0.00  36.  1003.  2 NAD-SFC NoSubs
10 10 12 285 16   65.8  0.315  1.214  0.005  973.  424.   -42.4  0.2940  0.72  0.26  2.60   23.0  15.0  303.2  2.0  0  0.00  41.  1002.  2 NAD-SFC NoSubs
10 10 12 285 17   11.5  0.362  0.681  0.005  979.  523.  -369.7  0.2470  0.72  0.39  3.60   33.0  15.0  302.0  2.0  0  0.00  49.  1003.  2 NAD-SFC NoSubs
10 10 12 285 18  -41.8  0.406 -9.000 -9.000 -999.  621.   143.5  0.2940  0.72  1.00  4.10   26.0  15.0  300.6  2.0  0  0.00  52.  1003.  2 NAD-SFC NoSubs
10 10 12 285 19  -34.9  0.338 -9.000 -9.000 -999.  474.    98.7  0.2470  0.72  1.00  3.60   39.0  15.0  299.8  2.0  0  0.00  52.  1004.  2 NAD-SFC NoSubs
10 10 12 285 20  -15.1  0.190 -9.000 -9.000 -999.  214.    40.8  0.2470  0.72  1.00  2.10   47.0  15.0  298.8  2.0  0  0.00  54.  1004.  2 NAD-SFC NoSubs
10 10 12 285 21   -3.5  0.095 -9.000 -9.000 -999.   76.    22.1  0.1970  0.72  1.00  1.00  121.0  15.0  297.6  2.0  0  0.00  56.  1005.  2 NAD-SFC NoSubs
10 10 12 285 22   -6.7  0.123 -9.000 -9.000 -999.  104.    25.2  0.1810  0.72  1.00  1.50  178.0  15.0  296.8  2.0  0  0.00  58.  1005.  2 NAD-SFC NoSubs
10 10 12 285 23   -3.4  0.094 -9.000 -9.000 -999.   70.    21.9  0.1900  0.72  1.00  1.00  188.0  15.0  295.9  2.0  0  0.00  61.  1006.  2 NAD-SFC NoSubs
10 10 12 285 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  294.8  2.0  0  0.00  66.  1006.  2 NAD-SFC NoSubs
10 10 13 286  1   -4.0  0.102 -9.000 -9.000 -999.   78.    23.6  0.2930  0.72  1.00  1.00  343.0  15.0  293.5  2.0  0  0.00  72.  1006.  2 NAD-SFC NoSubs
10 10 13 286  2   -4.0  0.102 -9.000 -9.000 -999.   78.    23.6  0.2930  0.72  1.00  1.00  352.0  15.0  292.8  2.0  0  0.00  75.  1006.  2 NAD-SFC NoSubs
10 10 13 286  3   -1.6  0.083 -9.000 -9.000 -999.   58.    31.8  0.2720  0.72  1.00  0.50  322.0  15.0  292.4  2.0  0  0.00  77.  1007.  2 NAD-SFC NoSubs
10 10 13 286  4   -3.6  0.097 -9.000 -9.000 -999.   72.    22.4  0.2160  0.72  1.00  1.00  290.0  15.0  291.9  2.0  0  0.00  78.  1007.  2 NAD-SFC NoSubs
10 10 13 286  5   -7.2  0.129 -9.000 -9.000 -999.  111.    26.5  0.2160  0.72  1.00  1.50  288.0  15.0  291.5  2.0  0  0.00  77.  1007.  2 NAD-SFC NoSubs
10 10 13 286  6   -7.3  0.129 -9.000 -9.000 -999.  111.    26.5  0.2160  0.72  1.00  1.50  277.0  15.0  291.0  2.0  0  0.00  75.  1008.  2 NAD-SFC NoSubs
10 10 13 286  7   -6.1  0.129 -9.000 -9.000 -999.  111.    31.6  0.2160  0.72  0.55  1.50  281.0  15.0  290.5  2.0  0  0.00  74.  1008.  2 NAD-SFC NoSubs
10 10 13 286  8   34.8  0.148  0.430  0.010   82.  137.    -8.4  0.2720  0.72  0.30  1.00  304.0  15.0  291.2  2.0  0  0.00  68.  1008.  2 NAD-SFC NoSubs
10 10 13 286  9   86.6  0.157  0.826  0.008  234.  150.    -4.0  0.2160  0.72  0.23  1.00  296.0  15.0  294.5  2.0  0  0.00  52.  1008.  2 NAD-SFC NoSubs
10 10 13 286 10  126.8  0.174  1.122  0.006  401.  174.    -3.7  0.2720  0.72  0.21  1.00  308.0  15.0  296.6  2.0  0  0.00  48.  1007.  2 NAD-SFC NoSubs
10 10 13 286 11  153.2  0.118  1.352  0.005  579.   97.    -1.0  0.2720  0.72  0.20  0.50  316.0  15.0  298.8  2.0  0  0.00  42.  1007.  2 NAD-SFC NoSubs
10 10 13 286 12  165.1  0.121  1.516  0.005  759.  101.    -1.0  0.2930  0.72  0.20  0.50  345.0  15.0  300.8  2.0  0  0.00  35.  1006.  2 NAD-SFC NoSubs
10 10 13 286 13  161.7  0.182  1.611  0.005  928.  186.    -3.3  0.2930  0.72  0.20  1.00  358.0  15.0  301.9  2.0  0  0.00  32.  1005.  2 NAD-SFC NoSubs
10 10 13 286 14  143.2 -9.000 -9.000 -9.000 1100. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  302.6  2.0  0  0.00  31.  1005.  2 NAD-SFC NoSubs
10 10 13 286 15  110.0  0.329  1.558  0.005 1231.  452.   -28.9  0.2940  0.72  0.21  2.60    8.0  15.0  302.8  2.0  0  0.00  32.  1004.  2 NAD-SFC NoSubs
10 10 13 286 16   63.7  0.314  1.321  0.005 1298.  423.   -43.6  0.2940  0.72  0.26  2.60    6.0  15.0  302.1  2.0  0  0.00  41.  1004.  2 NAD-SFC NoSubs
10 10 13 286 17    9.7  0.376  0.708  0.005 1305.  554.  -489.1  0.2940  0.72  0.40  3.60   24.0  15.0  301.1  2.0  0  0.00  47.  1004.  2 NAD-SFC NoSubs
10 10 13 286 18  -42.0  0.406 -9.000 -9.000 -999.  621.   143.0  0.2940  0.72  1.00  4.10   26.0  15.0  299.8  2.0  0  0.00  50.  1004.  2 NAD-SFC NoSubs
10 10 13 286 19  -31.5  0.303 -9.000 -9.000 -999.  408.    79.5  0.2940  0.72  1.00  3.10   26.0  15.0  298.8  2.0  0  0.00  52.  1005.  2 NAD-SFC NoSubs
10 10 13 286 20  -14.0  0.181 -9.000 -9.000 -999.  194.    38.2  0.2090  0.72  1.00  2.10   65.0  15.0  297.6  2.0  0  0.00  54.  1005.  2 NAD-SFC NoSubs
10 10 13 286 21  -13.7  0.179 -9.000 -9.000 -999.  181.    37.2  0.1970  0.72  1.00  2.10  121.0  15.0  296.5  2.0  0  0.00  52.  1006.  2 NAD-SFC NoSubs
10 10 13 286 22  -13.2  0.175 -9.000 -9.000 -999.  175.    36.0  0.1810  0.72  1.00  2.10  164.0  15.0  295.6  2.0  0  0.00  50.  1006.  2 NAD-SFC NoSubs
10 10 13 286 23   -6.7  0.123 -9.000 -9.000 -999.  104.    25.2  0.1810  0.72  1.00  1.50  170.0  15.0  294.9  2.0  0  0.00  50.  1007.  2 NAD-SFC NoSubs
10 10 13 286 24   -3.4  0.094 -9.000 -9.000 -999.   69.    21.8  0.1810  0.72  1.00  1.00  164.0  15.0  294.2  2.0  0  0.00  50.  1007.  2 NAD-SFC NoSubs
10 10 14 287  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  293.2  2.0  0  0.00  51.  1007.  2 NAD-SFC NoSubs
10 10 14 287  2   -1.6  0.083 -9.000 -9.000 -999.   58.    31.9  0.2720  0.72  1.00  0.50  311.0  15.0  292.0  2.0  0  0.00  55.  1007.  2 NAD-SFC NoSubs
10 10 14 287  3   -8.0  0.137 -9.000 -9.000 -999.  122.    28.7  0.2720  0.72  1.00  1.50  322.0  15.0  290.8  2.0  0  0.00  63.  1007.  2 NAD-SFC NoSubs
10 10 14 287  4  -16.1  0.195 -9.000 -9.000 -999.  207.    41.6  0.2720  0.72  1.00  2.10  324.0  15.0  289.8  2.0  0  0.00  71.  1008.  2 NAD-SFC NoSubs
10 10 14 287  5   -3.7  0.097 -9.000 -9.000 -999.   77.    22.4  0.2160  0.72  1.00  1.00  291.0  15.0  289.2  2.0  0  0.00  75.  1008.  2 NAD-SFC NoSubs
10 10 14 287  6   -3.4  0.094 -9.000 -9.000 -999.   69.    21.7  0.1750  0.72  1.00  1.00  249.0  15.0  288.9  2.0  0  0.00  74.  1008.  2 NAD-SFC NoSubs
10 10 14 287  7   -2.7  0.087 -9.000 -9.000 -999.   61.    21.7  0.1750  0.72  0.55  1.00  255.0  15.0  288.6  2.0  0  0.00  72.  1008.  2 NAD-SFC NoSubs
10 10 14 287  8   33.2  0.091  0.394  0.014   66.   66.    -2.0  0.2160  0.72  0.30  0.50  290.0  15.0  289.5  2.0  0  0.00  68.  1008.  2 NAD-SFC NoSubs
10 10 14 287  9   85.0  0.099  0.775  0.009  197.   74.    -1.0  0.1750  0.72  0.23  0.50  268.0  15.0  293.2  2.0  0  0.00  55.  1008.  2 NAD-SFC NoSubs
10 10 14 287 10  125.2  0.108  1.064  0.007  346.   86.    -1.0  0.2160  0.72  0.21  0.50  284.0  15.0  295.5  2.0  0  0.00  48.  1008.  2 NAD-SFC NoSubs
10 10 14 287 11  151.7  0.112  1.298  0.005  519.   89.    -1.0  0.2160  0.72  0.20  0.50  295.0  15.0  297.9  2.0  0  0.00  39.  1007.  2 NAD-SFC NoSubs
10 10 14 287 12  163.3 -9.000 -9.000 -9.000  695. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  299.8  2.0  0  0.00  33.  1006.  2 NAD-SFC NoSubs
10 10 14 287 13  160.1 -9.000 -9.000 -9.000  930. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  301.4  2.0  0  0.00  28.  1005.  2 NAD-SFC NoSubs
10 10 14 287 14  141.6  0.118  1.626  0.005 1089.   98.    -1.0  0.2930  0.72  0.20  0.50  355.0  15.0  302.2  2.0  0  0.00  26.  1004.  2 NAD-SFC NoSubs
10 10 14 287 15  108.7  0.173  1.535  0.005 1194.  173.    -4.3  0.2940  0.72  0.22  1.00    6.0  15.0  302.8  2.0  0  0.00  27.  1004.  2 NAD-SFC NoSubs
10 10 14 287 16   62.4  0.203  1.297  0.005 1250.  220.   -12.0  0.2470  0.72  0.26  1.50   30.0  15.0  302.4  2.0  0  0.00  34.  1003.  2 NAD-SFC NoSubs
10 10 14 287 17    8.8  0.314  0.676  0.005 1255.  422.  -313.7  0.2470  0.72  0.41  3.10   32.0  15.0  301.6  2.0  0  0.00  39.  1003.  2 NAD-SFC NoSubs
10 10 14 287 18  -31.3  0.304 -9.000 -9.000 -999.  401.    79.9  0.2940  0.72  1.00  3.10   29.0  15.0  300.1  2.0  0  0.00  43.  1003.  2 NAD-SFC NoSubs
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10 10 14 287 19   -4.0  0.102 -9.000 -9.000 -999.  130.     23.7  0.2940  0.72  1.00  1.00  12.0  15.0 298.8  2.0    0  0.00   47.  1003.    2 NAD-SFC NoSubs
10 10 14 287 20   -6.6  0.122 -9.000 -9.000 -999.  103.     25.0  0.1750  0.72  1.00  1.50 244.0  15.0 297.2  2.0    0  0.00   53.  1004.    2 NAD-SFC NoSubs
10 10 14 287 21  -20.3  0.218 -9.000 -9.000 -999.  245.     45.8  0.1750  0.72  1.00  2.60 254.0  15.0 296.1  2.0    0  0.00   56.  1004.    2 NAD-SFC NoSubs
10 10 14 287 22  -13.1  0.173 -9.000 -9.000 -999.  173.     35.6  0.1750  0.72  1.00  2.10 259.0  15.0 295.2  2.0    0  0.00   57.  1005.    2 NAD-SFC NoSubs
10 10 14 287 23   -6.6  0.122 -9.000 -9.000 -999.  103.     24.9  0.1750  0.72  1.00  1.50 261.0  15.0 294.5  2.0    0  0.00   56.  1005.    2 NAD-SFC NoSubs
10 10 14 287 24   -3.6  0.097 -9.000 -9.000 -999.   72.     22.4  0.2160  0.72  1.00  1.00 274.0  15.0 293.9  2.0    0  0.00   56.  1005.    2 NAD-SFC NoSubs
10 10 15 288  1   -1.7  0.084 -9.000 -9.000 -999.   58.     31.9  0.2930  0.72  1.00  0.50 346.0  15.0 293.4  2.0    0  0.00   55.  1005.    2 NAD-SFC NoSubs
10 10 15 288  2   -1.7  0.084 -9.000 -9.000 -999.   58.     31.9  0.2940  0.72  1.00  0.50  12.0  15.0 293.1  2.0    0  0.00   55.  1005.    2 NAD-SFC NoSubs
10 10 15 288  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 292.2  2.0    0  0.00   57.  1005.    2 NAD-SFC NoSubs
10 10 15 288  4   -1.5  0.080 -9.000 -9.000 -999.   54.     31.1  0.1900  0.72  1.00  0.50 184.0  15.0 291.5  2.0    0  0.00   60.  1005.    2 NAD-SFC NoSubs
10 10 15 288  5   -1.5  0.080 -9.000 -9.000 -999.   54.     31.2  0.1900  0.72  1.00  0.50 191.0  15.0 290.8  2.0    0  0.00   62.  1004.    2 NAD-SFC NoSubs
10 10 15 288  6   -1.4  0.079 -9.000 -9.000 -999.   54.     31.1  0.1810  0.72  1.00  0.50 177.0  15.0 290.4  2.0    0  0.00   64.  1005.    2 NAD-SFC NoSubs
10 10 15 288  7   -1.1  0.070 -9.000 -9.000 -999.   45.     28.3  0.1810  0.72  0.56  0.50 155.0  15.0 290.0  2.0    0  0.00   65.  1005.    2 NAD-SFC NoSubs
10 10 15 288  8   32.5 -9.000 -9.000 -9.000   87. -999. -99999.0  0.2235  0.72  0.31  0.00   0.0  15.0 290.5  2.0    0  0.00   66.  1005.    2 NAD-SFC NoSubs
10 10 15 288  9   84.3  0.099  0.776  0.009  198.   74.     -1.0  0.1750  0.72  0.23  0.50 258.0  15.0 294.0  2.0    0  0.00   52.  1005.    2 NAD-SFC NoSubs
10 10 15 288 10  124.3 -9.000 -9.000 -9.000  349. -999. -99999.0  0.2235  0.72  0.21  0.00   0.0  15.0 296.2  2.0    0  0.00   48.  1005.    2 NAD-SFC NoSubs
10 10 15 288 11  150.7 -9.000 -9.000 -9.000  552. -999. -99999.0  0.2235  0.72  0.20  0.00   0.0  15.0 298.4  2.0    0  0.00   42.  1004.    2 NAD-SFC NoSubs
10 10 15 288 12  162.5 -9.000 -9.000 -9.000  722. -999. -99999.0  0.2235  0.72  0.20  0.00   0.0  15.0 300.4  2.0    0  0.00   35.  1003.    2 NAD-SFC NoSubs
10 10 15 288 13  159.0 -9.000 -9.000 -9.000  844. -999. -99999.0  0.2235  0.72  0.20  0.00   0.0  15.0 301.8  2.0    0  0.00   32.  1003.    2 NAD-SFC NoSubs
10 10 15 288 14  140.5 -9.000 -9.000 -9.000  939. -999. -99999.0  0.2235  0.72  0.20  0.00   0.0  15.0 302.6  2.0    0  0.00   31.  1002.    2 NAD-SFC NoSubs
10 10 15 288 15  107.5  0.173  1.454  0.005 1022.  173.     -4.3  0.2940  0.72  0.22  1.00  14.0  15.0 303.1  2.0    0  0.00   31.  1002.    2 NAD-SFC NoSubs
10 10 15 288 16   61.2  0.211  1.225  0.005 1074.  232.    -13.6  0.2940  0.72  0.26  1.50  22.0  15.0 302.8  2.0    0  0.00   37.  1001.    2 NAD-SFC NoSubs
10 10 15 288 17    7.8  0.326  0.617  0.005 1078.  446.   -396.4  0.2940  0.72  0.41  3.10  19.0  15.0 301.9  2.0    0  0.00   43.  1001.    2 NAD-SFC NoSubs
10 10 15 288 18  -36.5  0.355 -9.000 -9.000 -999.  507.    109.4  0.2940  0.72  1.00  3.60  19.0  15.0 300.4  2.0    0  0.00   48.  1002.    2 NAD-SFC NoSubs
10 10 15 288 19   -8.2  0.140 -9.000 -9.000 -999.  178.     29.9  0.2940  0.72  1.00  1.50   4.0  15.0 299.1  2.0    0  0.00   52.  1002.    2 NAD-SFC NoSubs
10 10 15 288 20  -13.0  0.173 -9.000 -9.000 -999.  173.     35.8  0.1750  0.72  1.00  2.10 268.0  15.0 297.8  2.0    0  0.00   58.  1002.    2 NAD-SFC NoSubs
10 10 15 288 21  -38.9  0.373 -9.000 -9.000 -999.  546.    119.0  0.2160  0.72  1.00  4.10 280.0  15.0 296.5  2.0    0  0.00   60.  1003.    2 NAD-SFC NoSubs
10 10 15 288 22  -34.1  0.325 -9.000 -9.000 -999.  447.     90.3  0.2160  0.72  1.00  3.60 292.0  15.0 295.1  2.0    0  0.00   64.  1003.    2 NAD-SFC NoSubs
10 10 15 288 23  -36.5  0.347 -9.000 -9.000 -999.  490.    102.3  0.2720  0.72  1.00  3.60 303.0  15.0 294.2  2.0    0  0.00   64.  1004.    2 NAD-SFC NoSubs
10 10 15 288 24  -31.3  0.296 -9.000 -9.000 -999.  389.     74.6  0.2720  0.72  1.00  3.10 316.0  15.0 293.5  2.0    0  0.00   65.  1004.    2 NAD-SFC NoSubs
10 10 16 289  1  -15.2  0.190 -9.000 -9.000 -999.  204.     40.3  0.2470  0.72  1.00  2.10  33.0  15.0 292.9  2.0    0  0.00   66.  1004.    2 NAD-SFC NoSubs
10 10 16 289  2   -3.8  0.099 -9.000 -9.000 -999.   79.     22.9  0.2470  0.72  1.00  1.00  53.0  15.0 292.6  2.0    0  0.00   67.  1004.    2 NAD-SFC NoSubs
10 10 16 289  3   -1.4  0.079 -9.000 -9.000 -999.   53.     30.9  0.1750  0.72  1.00  0.50 253.0  15.0 292.4  2.0    0  0.00   66.  1004.    2 NAD-SFC NoSubs
10 10 16 289  4   -3.5  0.095 -9.000 -9.000 -999.   70.     22.0  0.1950  0.72  1.00  1.00 224.0  15.0 291.8  2.0    0  0.00   69.  1004.    2 NAD-SFC NoSubs
10 10 16 289  5   -3.5  0.095 -9.000 -9.000 -999.   70.     22.1  0.1950  0.72  1.00  1.00 217.0  15.0 291.1  2.0    0  0.00   72.  1004.    2 NAD-SFC NoSubs
10 10 16 289  6   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.2160  0.72  1.00  0.50 270.0  15.0 290.6  2.0    0  0.00   75.  1004.    2 NAD-SFC NoSubs
10 10 16 289  7   15.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.57  0.00   0.0  15.0 290.2  2.0    0  0.00   78.  1005.    2 NAD-SFC NoSubs
10 10 16 289  8   31.4 -9.000 -9.000 -9.000  146. -999. -99999.0  0.2235  0.72  0.31  0.00   0.0  15.0 290.2  2.0    0  0.00   80.  1005.    2 NAD-SFC NoSubs
10 10 16 289  9   82.6 -9.000 -9.000 -9.000  276. -999. -99999.0  0.2235  0.72  0.23  0.00   0.0  15.0 292.5  2.0    0  0.00   75.  1005.    2 NAD-SFC NoSubs
10 10 16 289 10  122.4 -9.000 -9.000 -9.000  412. -999. -99999.0  0.2235  0.72  0.21  0.00   0.0  15.0 294.5  2.0    0  0.00   69.  1005.    2 NAD-SFC NoSubs
10 10 16 289 11  148.7 -9.000 -9.000 -9.000  591. -999. -99999.0  0.2235  0.72  0.20  0.00   0.0  15.0 296.6  2.0    0  0.00   59.  1005.    2 NAD-SFC NoSubs
10 10 16 289 12  159.8 -9.000 -9.000 -9.000  742. -999. -99999.0  0.2235  0.72  0.20  0.00   0.0  15.0 297.8  2.0    0  0.00   55.  1004.    2 NAD-SFC NoSubs
10 10 16 289 13  156.0  0.118  1.559  0.007  869.   97.     -1.0  0.2720  0.72  0.20  0.50 316.0  15.0 298.8  2.0    0  0.00   52.  1003.    2 NAD-SFC NoSubs
10 10 16 289 14  137.3  0.179  1.548  0.007  968.  181.     -3.7  0.2930  0.72  0.20  1.00 337.0  15.0 299.4  2.0    0  0.00   51.  1003.    2 NAD-SFC NoSubs
10 10 16 289 15  104.1 -9.000 -9.000 -9.000 1030. -999. -99999.0  0.2235  0.72  0.22  0.00   0.0  15.0 299.6  2.0    0  0.00   52.  1002.    2 NAD-SFC NoSubs
10 10 16 289 16   57.8  0.312  1.197  0.006 1061.  418.    -46.8  0.2940  0.72  0.26  2.60   6.0  15.0 299.2  2.0    0  0.00   60.  1002.    2 NAD-SFC NoSubs
10 10 16 289 17    4.6  0.322  0.515  0.006 1062.  438.   -651.6  0.2940  0.72  0.42  3.10  19.0  15.0 298.2  2.0    0  0.00   65.  1002.    2 NAD-SFC NoSubs
10 10 16 289 18   -8.2  0.140 -9.000 -9.000 -999.  157.     29.8  0.2940  0.72  1.00  1.50  13.0  15.0 297.2  2.0    0  0.00   68.  1003.    2 NAD-SFC NoSubs
10 10 16 289 19   -3.6  0.096 -9.000 -9.000 -999.   73.     22.4  0.2160  0.72  1.00  1.00 290.0  15.0 296.4  2.0    0  0.00   71.  1003.    2 NAD-SFC NoSubs
10 10 16 289 20  -34.0  0.325 -9.000 -9.000 -999.  445.     90.6  0.2160  0.72  1.00  3.60 284.0  15.0 296.0  2.0    0  0.00   71.  1004.    2 NAD-SFC NoSubs
10 10 16 289 21  -39.2  0.373 -9.000 -9.000 -999.  545.    118.0  0.2160  0.72  1.00  4.10 278.0  15.0 294.2  2.0    0  0.00   75.  1004.    2 NAD-SFC NoSubs
10 10 16 289 22  -34.4  0.325 -9.000 -9.000 -999.  447.     89.5  0.2160  0.72  1.00  3.60 283.0  15.0 292.8  2.0    0  0.00   78.  1005.    2 NAD-SFC NoSubs
10 10 16 289 23  -28.8  0.278 -9.000 -9.000 -999.  353.     67.1  0.2160  0.72  1.00  3.10 292.0  15.0 292.1  2.0    0  0.00   79.  1006.    3 NAD-SFC NoSubs
10 10 16 289 24  -15.8  0.196 -9.000 -9.000 -999.  210.     42.4  0.2720  0.72  1.00  2.10 315.0  15.0 291.5  2.0    0  0.00   80.  1006.    3 NAD-SFC NoSubs
10 10 17 290  1   -7.1  0.129 -9.000 -9.000 -999.  112.     26.8  0.2160  0.72  1.00  1.50 299.0  15.0 291.2  2.0    0  0.00   80.  1006.    3 NAD-SFC NoSubs
10 10 17 290  2  -13.0  0.173 -9.000 -9.000 -999.  173.     35.8  0.1750  0.72  1.00  2.10 269.0  15.0 291.0  2.0    0  0.00   80.  1006.    3 NAD-SFC NoSubs
10 10 17 290  3  -13.0  0.173 -9.000 -9.000 -999.  173.     35.8  0.1750  0.72  1.00  2.10 268.0  15.0 290.9  2.0    0  0.00   79.  1006.    3 NAD-SFC NoSubs
10 10 17 290  4  -14.0  0.183 -9.000 -9.000 -999.  188.     39.5  0.2160  0.72  1.00  2.10 276.0  15.0 290.8  2.0    0  0.00   79.  1006.    4 NAD-SFC NoSubs
10 10 17 290  5   -7.0  0.129 -9.000 -9.000 -999.  111.     27.3  0.2160  0.72  1.00  1.50 289.0  15.0 290.8  2.0    0  0.00   79.  1006.    4 NAD-SFC NoSubs
10 10 17 290  6   -3.5  0.095 -9.000 -9.000 -999.   71.     22.4  0.2160  0.72  1.00  1.00 298.0  15.0 290.8  2.0    0  0.00   79.  1007.    4 NAD-SFC NoSubs
10 10 17 290  7   -1.1  0.070 -9.000 -9.000 -999.   44.     28.0  0.2160  0.72  0.57  0.50 280.0  15.0 290.6  2.0    0  0.00   79.  1007.    4 NAD-SFC NoSubs
10 10 17 290  8   32.9  0.087  0.522  0.005  155.   61.     -1.8  0.1750  0.72  0.31  0.50 267.0  15.0 290.8  2.0    0  0.00   79.  1007.    5 NAD-SFC NoSubs
10 10 17 290  9   80.0  0.213  0.938  0.005  370.  236.    -10.9  0.2720  0.72  0.23  1.50 314.0  15.0 291.5  2.0    0  0.00   73.  1007.    5 NAD-SFC NoSubs
10 10 17 290 10  116.8  0.113  1.241  0.006  588.   96.     -1.1  0.2720  0.72  0.21  0.50 321.0  15.0 292.8  2.0    0  0.00   66.  1007.    5 NAD-SFC NoSubs
10 10 17 290 11  145.2 -9.000 -9.000 -9.000  764. -999. -99999.0  0.2235  0.72  0.20  0.00   0.0  15.0 293.9  2.0    0  0.00   61.  1007.    4 NAD-SFC NoSubs
10 10 17 290 12  155.9 -9.000 -9.000 -9.000  911. -999. -99999.0  0.2235  0.72  0.20  0.00   0.0  15.0 294.9  2.0    0  0.00   59.  1005.    4 NAD-SFC NoSubs
10 10 17 290 13  152.0  0.117  1.632  0.007 1026.   97.     -1.0  0.2720  0.72  0.20  0.50 312.0  15.0 295.8  2.0    0  0.00   56.  1005.    4 NAD-SFC NoSubs
10 10 17 290 14  135.1  0.178  1.612  0.008 1112.  181.     -3.7  0.2930  0.72  0.20  1.00 332.0  15.0 296.6  2.0    0  0.00   54.  1004.    3 NAD-SFC NoSubs
10 10 17 290 15  102.3  0.280  1.496  0.008 1174.  356.    -19.3  0.2930  0.72  0.22  2.10 337.0  15.0 297.0  2.0    0  0.00   52.  1003.    3 NAD-SFC NoSubs
10 10 17 290 16   55.9  0.356  1.233  0.008 1202.  510.    -72.3  0.2930  0.72  0.27  3.10 347.0  15.0 295.5  2.0    0  0.00   51.  1004.    3 NAD-SFC NoSubs
10 10 17 290 17    3.7  0.321  0.502  0.008 1203.  437.   -789.3  0.2940  0.72  0.42  3.10  14.0  15.0 295.1  2.0    0  0.00   59.  1004.    3 NAD-SFC NoSubs
10 10 17 290 18  -25.5  0.252 -9.000 -9.000 -999.  306.     56.3  0.2940  0.72  1.00  2.60  27.0  15.0 294.2  2.0    0  0.00   62.  1004.    3 NAD-SFC NoSubs
10 10 17 290 19   -1.5  0.080 -9.000 -9.000 -999.   93.     31.1  0.2160  0.72  1.00  0.50 282.0  15.0 293.5  2.0    0  0.00   65.  1005.    3 NAD-SFC NoSubs
10 10 17 290 20  -35.2  0.353 -9.000 -9.000 -999.  504.    112.5  0.1750  0.72  1.00  4.10 240.0  15.0 292.5  2.0    0  0.00   67.  1005.    4 NAD-SFC NoSubs
10 10 17 290 21  -36.7  0.353 -9.000 -9.000 -999.  503.    107.4  0.1750  0.72  1.00  4.10 248.0  15.0 290.5  2.0    0  0.00   72.  1005.    3 NAD-SFC NoSubs
10 10 17 290 22  -36.8  0.353 -9.000 -9.000 -999.  503.    107.2  0.1750  0.72  1.00  4.10 259.0  15.0 290.0  2.0    0  0.00   73.  1006.    3 NAD-SFC NoSubs
10 10 17 290 23  -37.5  0.373 -9.000 -9.000 -999.  546.    124.0  0.2160  0.72  1.00  4.10 287.0  15.0 289.6  2.0    0  0.00   74.  1006.    4 NAD-SFC NoSubs
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10 10 17 290 24  -29.3  0.326 -9.000 -9.000 -999.  449.    106.4  0.2160  0.72  1.00   3.60  298.0  15.0  289.1  2.0   0  0.00   76.  1006.    6 NAD-SFC NoSubs
10 10 18 291  1  -17.4  0.233 -9.000 -9.000 -999.  274.     65.3  0.2160  0.72  1.00   2.60  298.0  15.0  288.5  2.0   0  0.00   78.  1007.    8 NAD-SFC NoSubs
10 10 18 291  2   -5.9  0.139 -9.000 -9.000 -999.  129.     41.5  0.2720  0.72  1.00   1.50  303.0  15.0  288.0  2.0   0  0.00   79.  1007.   10 NAD-SFC NoSubs
10 10 18 291  3   -2.6  0.092 -9.000 -9.000 -999.   67.     26.8  0.2720  0.72  1.00   1.00  304.0  15.0  287.5  2.0   0  0.00   80.  1007.   10 NAD-SFC NoSubs
10 10 18 291  4   -7.4  0.137 -9.000 -9.000 -999.  122.     31.2  0.2720  0.72  1.00   1.50  311.0  15.0  287.2  2.0   0  0.00   81.  1007.    6 NAD-SFC NoSubs
10 10 18 291  5   -7.6  0.137 -9.000 -9.000 -999.  122.     30.1  0.2720  0.72  1.00   1.50  318.0  15.0  286.9  2.0   0  0.00   82.  1007.    5 NAD-SFC NoSubs
10 10 18 291  6   -7.6  0.137 -9.000 -9.000 -999.  122.     30.1  0.2720  0.72  1.00   1.50  323.0  15.0  286.5  2.0   0  0.00   84.  1008.    5 NAD-SFC NoSubs
10 10 18 291  7   -6.7  0.138 -9.000 -9.000 -999.  123.     34.8  0.2720  0.72  0.58   1.50  322.0  15.0  286.1  2.0   0  0.00   86.  1008.    5 NAD-SFC NoSubs
10 10 18 291  8   30.6  0.252  0.583  0.006  232.  303.    -46.8  0.2930  0.72  0.31   2.10  335.0  15.0  286.2  2.0   0  0.00   85.  1008.    5 NAD-SFC NoSubs
10 10 18 291  9   77.6  0.166  0.919  0.006  360.  165.     -5.3  0.2930  0.72  0.23   1.00  342.0  15.0  287.5  2.0   0  0.00   80.  1008.    5 NAD-SFC NoSubs
10 10 18 291 10  114.4 -9.000 -9.000 -9.000  555. -999. -99999.0  0.2235  0.72  0.21   0.00    0.0  15.0  289.0  2.0   0  0.00   73.  1007.    5 NAD-SFC NoSubs
10 10 18 291 11  138.4  0.110  1.404  0.006  719.   87.     -1.0  0.2160  0.72  0.20   0.50  283.0  15.0  290.5  2.0   0  0.00   68.  1007.    5 NAD-SFC NoSubs
10 10 18 291 12  153.4  0.112  1.534  0.005  845.   90.     -1.0  0.2160  0.72  0.20   0.50  282.0  15.0  291.8  2.0   0  0.00   64.  1006.    4 NAD-SFC NoSubs
10 10 18 291 13  149.6  0.169  1.584  0.005  953.  167.     -2.9  0.2160  0.72  0.20   1.00  298.0  15.0  292.9  2.0   0  0.00   60.  1005.    4 NAD-SFC NoSubs
10 10 18 291 14  132.6  0.226  1.582  0.005 1070.  257.     -7.8  0.2720  0.72  0.20   1.50  310.0  15.0  293.8  2.0   0  0.00   57.  1004.    3 NAD-SFC NoSubs
10 10 18 291 15   99.6  0.219  1.475  0.005 1155.  246.     -9.4  0.2720  0.72  0.22   1.50  324.0  15.0  294.1  2.0   0  0.00   55.  1004.    3 NAD-SFC NoSubs
10 10 18 291 16   54.0  0.259  1.219  0.005 1200.  317.    -28.9  0.2720  0.72  0.27   2.10  326.0  15.0  294.2  2.0   0  0.00   55.  1003.    3 NAD-SFC NoSubs
10 10 18 291 17    2.2  0.220  0.417  0.005 1201.  248.   -439.9  0.2930  0.72  0.43   2.10  338.0  15.0  294.0  2.0   0  0.00   60.  1003.    3 NAD-SFC NoSubs
10 10 18 291 18   -3.0 -9.000 -9.000 -9.000  -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  293.2  2.0   0  0.00   63.  1004.    3 NAD-SFC NoSubs
10 10 18 291 19   -8.2  0.140 -9.000 -9.000 -999.  126.     30.0  0.2940  0.72  1.00   1.50   15.0  15.0  292.4  2.0   0  0.00   67.  1004.    3 NAD-SFC NoSubs
10 10 18 291 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  291.2  2.0   0  0.00   73.  1005.    3 NAD-SFC NoSubs
10 10 18 291 21   -3.3  0.093 -9.000 -9.000 -999.   68.     21.6  0.1750  0.72  1.00   1.00  255.0  15.0  290.2  2.0   0  0.00   78.  1005.    3 NAD-SFC NoSubs
10 10 18 291 22   -6.6  0.122 -9.000 -9.000 -999.  103.     25.0  0.1750  0.72  1.00   1.50  256.0  15.0  289.5  2.0   0  0.00   80.  1005.    3 NAD-SFC NoSubs
10 10 18 291 23   -3.3  0.093 -9.000 -9.000 -999.   68.     21.7  0.1750  0.72  1.00   1.00  246.0  15.0  288.8  2.0   0  0.00   82.  1005.    3 NAD-SFC NoSubs
10 10 18 291 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  288.2  2.0   0  0.00   84.  1005.    3 NAD-SFC NoSubs
10 10 19 292  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  287.5  2.0   0  0.00   87.  1005.    3 NAD-SFC NoSubs
10 10 19 292  2   -1.4  0.079 -9.000 -9.000 -999.   53.     30.8  0.1750  0.72  1.00   0.50  244.0  15.0  287.0  2.0   0  0.00   90.  1005.    3 NAD-SFC NoSubs
10 10 19 292  3   -1.4  0.079 -9.000 -9.000 -999.   53.     30.8  0.1750  0.72  1.00   0.50  268.0  15.0  286.8  2.0   0  0.00   90.  1005.    3 NAD-SFC NoSubs
10 10 19 292  4   -3.6  0.096 -9.000 -9.000 -999.   72.     22.4  0.2160  0.72  1.00   1.00  278.0  15.0  286.5  2.0   0  0.00   90.  1005.    3 NAD-SFC NoSubs
10 10 19 292  5   -3.6  0.097 -9.000 -9.000 -999.   72.     22.4  0.2160  0.72  1.00   1.00  294.0  15.0  286.2  2.0   0  0.00   89.  1006.    3 NAD-SFC NoSubs
10 10 19 292  6   -3.6  0.097 -9.000 -9.000 -999.   72.     22.4  0.2160  0.72  1.00   1.00  298.0  15.0  286.0  2.0   0  0.00   89.  1006.    3 NAD-SFC NoSubs
10 10 19 292  7   -1.3  0.076 -9.000 -9.000 -999.   51.     29.8  0.2720  0.72  0.59   0.50  304.0  15.0  285.9  2.0   0  0.00   89.  1006.    3 NAD-SFC NoSubs
10 10 19 292  8   28.9  0.145  0.435  0.007  102.  133.     -9.6  0.2720  0.72  0.32   1.00  306.0  15.0  286.8  2.0   0  0.00   83.  1006.    3 NAD-SFC NoSubs
10 10 19 292  9   78.9  0.107  0.840  0.006  269.   85.     -1.4  0.2720  0.72  0.23   0.50  304.0  15.0  288.6  2.0   0  0.00   73.  1006.    3 NAD-SFC NoSubs
10 10 19 292 10  118.1  0.103  1.170  0.007  487.   79.     -1.0  0.1750  0.72  0.21   0.50  256.0  15.0  290.4  2.0   0  0.00   65.  1006.    3 NAD-SFC NoSubs
10 10 19 292 11  143.6  0.161  1.400  0.007  686.  155.     -2.6  0.1750  0.72  0.20   1.00  262.0  15.0  292.0  2.0   0  0.00   60.  1005.    3 NAD-SFC NoSubs
10 10 19 292 12  154.5  0.170  1.506  0.006  793.  168.     -2.8  0.2160  0.72  0.20   1.00  284.0  15.0  293.4  2.0   0  0.00   56.  1004.    3 NAD-SFC NoSubs
10 10 19 292 13  150.7  0.178  1.551  0.005  886.  180.     -3.3  0.2720  0.72  0.20   1.00  301.0  15.0  294.8  2.0   0  0.00   52.  1003.    3 NAD-SFC NoSubs
10 10 19 292 14  132.1  0.229  1.525  0.005  961.  264.     -8.2  0.2930  0.72  0.20   1.50  333.0  15.0  295.6  2.0   0  0.00   50.  1002.    3 NAD-SFC NoSubs
10 10 19 292 15   99.2  0.280  1.424  0.005 1041.  355.    -19.7  0.2930  0.72  0.22   2.10  338.0  15.0  296.1  2.0   0  0.00   49.  1001.    3 NAD-SFC NoSubs
10 10 19 292 16   53.6  0.264  1.177  0.005 1086.  325.    -30.5  0.2930  0.72  0.27   2.10  348.0  15.0  296.2  2.0   0  0.00   50.  1000.    3 NAD-SFC NoSubs
10 10 19 292 17    1.9  0.219  0.387  0.005 1087.  247.   -496.5  0.2940  0.72  0.44   2.10   18.0  15.0  295.9  2.0   0  0.00   55.  1000.    3 NAD-SFC NoSubs
10 10 19 292 18   -3.5  0.095 -9.000 -9.000  -999.   82.     22.3  0.2090  0.72  1.00   1.00   61.0  15.0  295.0  2.0   0  0.00   58.  1000.    3 NAD-SFC NoSubs
10 10 19 292 19   -3.4  0.094 -9.000 -9.000  -999.   69.     21.8  0.1810  0.72  1.00   1.00  152.0  15.0  294.1  2.0   0  0.00   63.  1001.    2 NAD-SFC NoSubs
10 10 19 292 20   -6.8  0.125 -9.000 -9.000  -999.  106.     25.5  0.1900  0.72  1.00   1.50  204.0  15.0  293.2  2.0   0  0.25   67.  1001.    2 NAD-SFC NoSubs
10 10 19 292 21  -13.7  0.178 -9.000 -9.000  -999.  180.     36.8  0.1950  0.72  1.00   2.10  219.0  15.0  292.8  2.0   0  0.00   70.  1002.    2 NAD-SFC NoSubs
10 10 19 292 22  -27.9  0.263 -9.000 -9.000  -999.  324.     58.4  0.1750  0.72  1.00   3.10  253.0  15.0  291.6  2.0   0  0.00   74.  1002.    2 NAD-SFC NoSubs
10 10 19 292 23  -22.1  0.231 -9.000 -9.000  -999.  266.     49.6  0.2160  0.72  1.00   2.60  272.0  15.0  290.8  2.0   0  0.00   78.  1003.    3 NAD-SFC NoSubs
10 10 19 292 24   -6.6  0.122 -9.000 -9.000  -999.  109.     25.0  0.1750  0.72  1.00   1.50  266.0  15.0  290.4  2.0   0  0.00   78.  1003.    3 NAD-SFC NoSubs
10 10 20 293  1   -3.3  0.093 -9.000 -9.000  -999.   68.     21.6  0.1750  0.72  1.00   1.00  266.0  15.0  290.2  2.0   0  0.00   78.  1003.    3 NAD-SFC NoSubs
10 10 20 293  2   -1.4  0.079 -9.000 -9.000  -999.   54.     31.0  0.1950  0.72  1.00   0.50  230.0  15.0  290.1  2.0   0  0.00   78.  1004.    3 NAD-SFC NoSubs
10 10 20 293  3   -3.3  0.093 -9.000 -9.000  -999.   68.     21.6  0.1750  0.72  1.00   1.00  250.0  15.0  289.8  2.0   0  0.00   80.  1004.    3 NAD-SFC NoSubs
10 10 20 293  4   -6.6  0.122 -9.000 -9.000  -999.  103.     25.0  0.1750  0.72  1.00   1.50  246.0  15.0  289.2  2.0   0  0.00   83.  1004.    3 NAD-SFC NoSubs
10 10 20 293  5   -7.2  0.129 -9.000 -9.000  -999.  111.     26.7  0.2160  0.72  1.00   1.50  274.0  15.0  288.9  2.0   0  0.00   84.  1004.    3 NAD-SFC NoSubs
10 10 20 293  6   -7.2  0.129 -9.000 -9.000  -999.  111.     26.7  0.2160  0.72  1.00   1.50  280.0  15.0  288.6  2.0   0  0.00   83.  1005.    3 NAD-SFC NoSubs
10 10 20 293  7   10.6 -9.000 -9.000 -9.000  -999. -999. -99999.0  0.2235  0.72  0.59   0.00    0.0  15.0  288.4  2.0   0  0.00   82.  1005.    3 NAD-SFC NoSubs
10 10 20 293  8   28.3 -9.000 -9.000 -9.000   153. -999. -99999.0  0.2235  0.72  0.32   0.00    0.0  15.0  288.2  2.0   0  0.00   83.  1005.    3 NAD-SFC NoSubs
10 10 20 293  9   78.3 -9.000 -9.000 -9.000   287. -999. -99999.0  0.2235  0.72  0.24   0.00    0.0  15.0  290.1  2.0   0  0.00   70.  1005.    3 NAD-SFC NoSubs
10 10 20 293 10  117.5  0.206  1.172  0.005  492.  225.     -6.7  0.1900  0.72  0.21   1.50  187.0  15.0  292.1  2.0   0  0.00   63.  1005.    3 NAD-SFC NoSubs
10 10 20 293 11  143.1  0.264  1.420  0.006  717.  326.    -11.5  0.1900  0.72  0.20   2.10  184.0  15.0  293.9  2.0   0  0.00   54.  1004.    3 NAD-SFC NoSubs
10 10 20 293 12  154.0  0.211  1.547  0.006  861.  233.     -5.4  0.1810  0.72  0.20   1.50  176.0  15.0  295.2  2.0   0  0.00   48.  1004.    3 NAD-SFC NoSubs
10 10 20 293 13  150.3  0.163  1.604  0.005  983.  158.     -2.6  0.1810  0.72  0.20   1.00  179.0  15.0  296.6  2.0   0  0.00   44.  1003.    3 NAD-SFC NoSubs
10 10 20 293 14  131.7 -9.000 -9.000 -9.000 1076. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  297.8  2.0   0  0.00   41.  1002.    3 NAD-SFC NoSubs
10 10 20 293 15   98.8 -9.000 -9.000 -9.000 1140. -999. -99999.0  0.2235  0.72  0.22   0.00    0.0  15.0  298.2  2.0   0  0.00   40.  1002.    3 NAD-SFC NoSubs
10 10 20 293 16   53.1 -9.000 -9.000 -9.000 1172. -999. -99999.0  0.2235  0.72  0.27   0.00    0.0  15.0  298.0  2.0   0  0.00   44.  1002.    3 NAD-SFC NoSubs
10 10 20 293 17    1.2 -9.000 -9.000 -9.000 1170. -999. -99999.0  0.2235  0.72  0.44   0.00    0.0  15.0  296.8  2.0   0  0.00   55.  1002.    3 NAD-SFC NoSubs
10 10 20 293 18  -46.8  0.458 -9.000 -9.000  -999.  744.    183.6  0.2940  0.72  1.00   4.60   21.0  15.0  294.9  2.0   0  0.00   64.  1002.    3 NAD-SFC NoSubs
10 10 20 293 19  -36.4  0.355 -9.000 -9.000  -999.  515.    109.8  0.2940  0.72  1.00   3.60   28.0  15.0  293.8  2.0   0  0.00   68.  1003.    3 NAD-SFC NoSubs
10 10 20 293 20   -7.1  0.129 -9.000 -9.000  -999.  178.     26.9  0.2160  0.72  1.00   1.50  276.0  15.0  293.2  2.0   0  0.00   69.  1003.    3 NAD-SFC NoSubs
10 10 20 293 21  -41.2  0.398 -9.000 -9.000  -999.  602.    137.0  0.1750  0.72  1.00   4.60  266.0  15.0  291.8  2.0   0  0.00   76.  1004.    3 NAD-SFC NoSubs
10 10 20 293 22  -33.8  0.325 -9.000 -9.000  -999.  449.     91.3  0.2160  0.72  1.00   3.60  299.0  15.0  290.8  2.0   0  0.00   79.  1004.    3 NAD-SFC NoSubs
10 10 20 293 23  -30.9  0.297 -9.000 -9.000  -999.  388.     75.7  0.2720  0.72  1.00   3.10  315.0  15.0  290.2  2.0   0  0.00   81.  1005.    3 NAD-SFC NoSubs
10 10 20 293 24  -30.9  0.297 -9.000 -9.000  -999.  388.     75.5  0.2720  0.72  1.00   3.10  327.0  15.0  289.5  2.0   0  0.00   83.  1005.    3 NAD-SFC NoSubs
10 10 21 294  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  288.9  2.0   0  0.00   86.  1005.    3 NAD-SFC NoSubs
10 10 21 294  2  -25.7  0.252 -9.000 -9.000  -999.  303.     55.7  0.2940  0.72  1.00   2.60    8.0  15.0  288.4  2.0   0  0.00   88.  1006.    3 NAD-SFC NoSubs
10 10 21 294  3  -16.5  0.200 -9.000 -9.000  -999.  215.     43.4  0.2930  0.72  1.00   2.10  360.0  15.0  287.8  2.0   0  0.00   91.  1006.    3 NAD-SFC NoSubs
10 10 21 294  4   -8.3  0.140 -9.000 -9.000  -999.  126.     29.7  0.2930  0.72  1.00   1.50  339.0  15.0  287.2  2.0   0  0.00   93.  1006.    3 NAD-SFC NoSubs
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10 10 21 294  5   -8.3  0.140 -9.000 -9.000 -999.  125.    29.7  0.2930  0.72  1.00  1.50  331.0  15.0  286.8  2.0   0  0.00   96.  1006.    3 NAD-SFC NoSubs
10 10 21 294  6   -7.8  0.137 -9.000 -9.000 -999.  121.    29.4  0.2720  0.72  1.00  1.50  313.0  15.0  286.2  2.0   0  0.00   97.  1007.    4 NAD-SFC NoSubs
10 10 21 294  7   -7.2  0.137 -9.000 -9.000 -999.  122.    32.2  0.2720  0.72  0.60  1.50  305.0  15.0  285.9  2.0   0  0.00   98.  1007.    4 NAD-SFC NoSubs
10 10 21 294  8   27.8  0.363  0.471  0.006  135.  525.  -154.8  0.2160  0.72  0.32  3.60  281.0  15.0  286.5  2.0   0  0.00   92.  1008.    4 NAD-SFC NoSubs
10 10 21 294  9   76.5  0.298  0.787  0.006  229.  393.   -31.1  0.2160  0.72  0.24  2.60  292.0  15.0  288.2  2.0   0  0.00   82.  1008.    4 NAD-SFC NoSubs
10 10 21 294 10  114.8  0.172  1.040  0.006  353.  180.    -4.0  0.2720  0.72  0.21  1.00  301.0  15.0  290.2  2.0   0  0.00   74.  1008.    4 NAD-SFC NoSubs
10 10 21 294 11  139.6  0.116  1.267  0.006  524.   96.    -1.0  0.2720  0.72  0.20  0.50  329.0  15.0  291.8  2.0   0  0.00   68.  1008.    4 NAD-SFC NoSubs
10 10 21 294 12  150.1  0.117  1.425  0.006  693.   96.    -1.0  0.2720  0.72  0.20  0.50  306.0  15.0  292.8  2.0   0  0.00   64.  1007.    4 NAD-SFC NoSubs
10 10 21 294 13  147.6  0.177  1.519  0.006  853.  179.    -3.4  0.2720  0.72  0.20  1.00  306.0  15.0  293.5  2.0   0  0.00   61.  1006.    3 NAD-SFC NoSubs
10 10 21 294 14  127.7  0.225  1.512  0.006  972.  256.    -8.0  0.2720  0.72  0.20  1.50  325.0  15.0  294.1  2.0   0  0.00   59.  1005.    4 NAD-SFC NoSubs
10 10 21 294 15   95.2  0.278  1.401  0.005 1035.  352.   -20.3  0.2930  0.72  0.22  2.10  336.0  15.0  294.2  2.0   0  0.00   57.  1005.    4 NAD-SFC NoSubs
10 10 21 294 16   47.6  0.307  1.123  0.005 1067.  408.   -54.3  0.2930  0.72  0.28  2.60  337.0  15.0  294.4  2.0   0  0.00   57.  1004.    6 NAD-SFC NoSubs
10 10 21 294 17   -6.1  0.360 -9.000 -9.000 -999.  518.   683.0  0.2720  0.72  0.45  3.60  326.0  15.0  294.1  2.0   0  0.00   63.  1004.   10 NAD-SFC NoSubs
10 10 21 294 18  -24.5  0.454 -9.000 -9.000 -999.  734.   341.6  0.2720  0.72  1.00  4.60  306.0  15.0  292.6  2.0   0  0.00   70.  1005.   10 NAD-SFC NoSubs
10 10 21 294 19  -25.8  0.474 -9.000 -9.000 -999.  783.   370.8  0.2160  0.72  1.00  5.10  295.0  15.0  291.1  2.0   0  0.00   76.  1006.   10 NAD-SFC NoSubs
10 10 21 294 20  -42.0  0.469 -9.000 -9.000 -999.  771.   220.2  0.2160  0.72  1.00  5.10  282.0  15.0  289.8  2.0   0  0.00   80.  1006.    6 NAD-SFC NoSubs
10 10 21 294 21  -40.3  0.421 -9.000 -9.000 -999.  657.   165.5  0.2160  0.72  1.00  4.60  272.0  15.0  288.9  2.0   0  0.00   83.  1006.    5 NAD-SFC NoSubs
10 10 21 294 22  -34.0  0.354 -9.000 -9.000 -999.  508.   116.7  0.1750  0.72  1.00  4.10  260.0  15.0  288.4  2.0   0  0.00   84.  1007.    5 NAD-SFC NoSubs
10 10 21 294 23  -29.7  0.309 -9.000 -9.000 -999.  413.    89.0  0.1750  0.72  1.00  3.60  268.0  15.0  288.2  2.0   0  0.00   85.  1007.    5 NAD-SFC NoSubs
10 10 21 294 24  -26.8  0.279 -9.000 -9.000 -999.  354.    72.4  0.2160  0.72  1.00  3.10  283.0  15.0  287.9  2.0   0  0.00   85.  1007.    5 NAD-SFC NoSubs
10 10 22 295  1  -19.4  0.232 -9.000 -9.000 -999.  270.    58.3  0.2160  0.72  1.00  2.60  273.0  15.0  287.4  2.0   0  0.00   87.  1007.    7 NAD-SFC NoSubs
10 10 22 295  2  -14.8  0.267 -9.000 -9.000 -999.  332.   116.2  0.1750  0.72  1.00  3.10  262.0  15.0  287.0  2.0   0  0.00   88.  1007.   10 NAD-SFC NoSubs
10 10 22 295  3  -15.6  0.282 -9.000 -9.000 -999.  360.   129.5  0.2160  0.72  1.00  3.10  272.0  15.0  287.1  2.0   0  0.00   87.  1007.   10 NAD-SFC NoSubs
10 10 22 295  4  -13.0  0.235 -9.000 -9.000 -999.  274.    89.8  0.2160  0.72  1.00  2.60  271.0  15.0  287.1  2.0   0  0.25   88.  1007.   10 NAD-SFC NoSubs
10 10 22 295  5  -10.4  0.188 -9.000 -9.000 -999.  196.    57.3  0.2160  0.72  1.00  2.10  274.0  15.0  287.1  2.0   0  0.25   89.  1007.   10 NAD-SFC NoSubs
10 10 22 295  6   -9.7  0.178 -9.000 -9.000 -999.  180.    51.7  0.1750  0.72  1.00  2.10  257.0  15.0  287.1  2.0   0  0.25   89.  1007.   10 NAD-SFC NoSubs
10 10 22 295  7   -4.9  0.127 -9.000 -9.000 -999.  110.    38.1  0.1950  0.72  0.61  1.50  236.0  15.0  287.2  2.0   0  0.00   88.  1008.   10 NAD-SFC NoSubs
10 10 22 295  8    3.2  0.151  0.221  0.005  119.  140.   -94.7  0.1900  0.72  0.32  1.50  199.0  15.0  287.4  2.0   0  0.00   86.  1008.   10 NAD-SFC NoSubs
10 10 22 295  9   69.4  0.195  0.909  0.005  389.  207.    -9.7  0.1950  0.72  0.24  1.50  221.0  15.0  287.8  2.0   0  0.00   81.  1008.    6 NAD-SFC NoSubs
10 10 22 295 10  113.0  0.159  1.210  0.005  564.  152.    -3.2  0.1900  0.72  0.21  1.00  182.0  15.0  288.2  2.0   0  0.00   79.  1008.    4 NAD-SFC NoSubs
10 10 22 295 11  138.9  0.106  1.412  0.005  728.   83.    -1.0  0.1810  0.72  0.20  0.50  160.0  15.0  288.9  2.0   0  0.00   77.  1007.    3 NAD-SFC NoSubs
10 10 22 295 12  149.6 -9.000 -9.000 -9.000  878. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  290.2  2.0   0  0.00   71.  1006.    3 NAD-SFC NoSubs
10 10 22 295 13  145.6 -9.000 -9.000 -9.000 1012. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  291.5  2.0   0  0.00   64.  1005.    3 NAD-SFC NoSubs
10 10 22 295 14  126.8 -9.000 -9.000 -9.000 1133. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  292.5  2.0   0  0.00   58.  1005.    3 NAD-SFC NoSubs
10 10 22 295 15   93.8  0.112  1.470  0.008 1215.   90.    -1.3  0.2940  0.72  0.22  0.50   15.0  15.0  292.9  2.0   0  0.00   55.  1004.    3 NAD-SFC NoSubs
10 10 22 295 16   48.3  0.205  1.192  0.008 1255.  224.   -16.1  0.2940  0.72  0.28  1.50   13.0  15.0  293.2  2.0   0  0.00   58.  1003.    3 NAD-SFC NoSubs
10 10 22 295 17   -3.2  0.211 -9.000 -9.000 -999.  232.   263.1  0.2940  0.72  0.46  2.10   22.0  15.0  292.8  2.0   0  0.00   63.  1003.    3 NAD-SFC NoSubs
10 10 22 295 18   -8.0  0.140 -9.000 -9.000 -999.  127.    30.5  0.2940  0.72  1.00  1.50   14.0  15.0  291.8  2.0   0  0.00   68.  1003.    4 NAD-SFC NoSubs
10 10 22 295 19  -13.6  0.184 -9.000 -9.000 -999.  189.    40.8  0.2160  0.72  1.00  2.10  294.0  15.0  291.1  2.0   0  0.00   71.  1004.    5 NAD-SFC NoSubs
10 10 22 295 20  -40.1  0.421 -9.000 -9.000 -999.  655.   166.3  0.2160  0.72  1.00  4.60  284.0  15.0  290.1  2.0   0  0.00   76.  1004.    5 NAD-SFC NoSubs
10 10 22 295 21  -35.8  0.373 -9.000 -9.000 -999.  549.   130.2  0.2160  0.72  1.00  4.10  291.0  15.0  288.6  2.0   0  0.00   84.  1005.    5 NAD-SFC NoSubs
10 10 22 295 22  -31.3  0.326 -9.000 -9.000 -999.  448.    99.1  0.2160  0.72  1.00  3.60  295.0  15.0  288.2  2.0   0  0.00   85.  1005.    5 NAD-SFC NoSubs
10 10 22 295 23  -23.2  0.280 -9.000 -9.000 -999.  356.    84.5  0.2160  0.72  1.00  3.10  277.0  15.0  287.9  2.0   0  0.00   85.  1006.    7 NAD-SFC NoSubs
10 10 22 295 24  -12.9  0.235 -9.000 -9.000 -999.  274.    89.9  0.2160  0.72  1.00  2.60  277.0  15.0  287.5  2.0   0  0.00   86.  1006.   10 NAD-SFC NoSubs
10 10 23 296  1   -5.3  0.131 -9.000 -9.000 -999.  118.    37.8  0.2160  0.72  1.00  1.50  274.0  15.0  287.4  2.0   0  0.00   86.  1006.   10 NAD-SFC NoSubs
10 10 23 296  2   -0.8  0.060 -9.000 -9.000 -999.   38.    25.2  0.1750  0.72  1.00  0.50  255.0  15.0  287.4  2.0   0  0.00   87.  1006.   10 NAD-SFC NoSubs
10 10 23 296  3   -0.8  0.061 -9.000 -9.000 -999.   36.    25.4  0.1900  0.72  1.00  0.50  188.0  15.0  287.2  2.0   0  0.00   88.  1007.   10 NAD-SFC NoSubs
10 10 23 296  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  286.9  2.0   0  0.00   89.  1007.    8 NAD-SFC NoSubs
10 10 23 296  5   -1.2  0.073 -9.000 -9.000 -999.   48.    29.0  0.2160  0.72  1.00  0.50  285.0  15.0  286.2  2.0   0  0.00   92.  1007.    7 NAD-SFC NoSubs
10 10 23 296  6   -6.3  0.122 -9.000 -9.000 -999.  102.    25.8  0.1750  0.72  1.00  1.50  263.0  15.0  285.8  2.0   0  0.00   93.  1008.    5 NAD-SFC NoSubs
10 10 23 296  7  -20.7  0.232 -9.000 -9.000 -999.  268.    54.1  0.2160  0.72  0.62  2.60  272.0  15.0  285.2  2.0   0  0.00   94.  1008.    4 NAD-SFC NoSubs
10 10 23 296  8   25.4  0.318  0.533  0.005  214.  430.  -113.6  0.2160  0.72  0.33  3.10  273.0  15.0  285.2  2.0   0  0.00   90.  1009.    4 NAD-SFC NoSubs
10 10 23 296  9   73.8  0.254  0.965  0.005  438.  309.   -20.0  0.2160  0.72  0.24  2.10  272.0  15.0  286.2  2.0   0  0.00   81.  1009.    3 NAD-SFC NoSubs
10 10 23 296 10  112.4  0.105  1.293  0.005  693.  101.    -1.0  0.1950  0.72  0.21  0.50  226.0  15.0  287.2  2.0   0  0.00   77.  1009.    3 NAD-SFC NoSubs
10 10 23 296 11  137.0  0.106  1.481  0.005  854.   82.    -1.0  0.1810  0.72  0.20  0.50  173.0  15.0  288.4  2.0   0  0.00   74.  1009.    2 NAD-SFC NoSubs
10 10 23 296 12  147.6  0.108  1.602  0.005 1003.   85.    -1.0  0.1900  0.72  0.20  0.50  186.0  15.0  289.2  2.0   0  0.00   71.  1008.    2 NAD-SFC NoSubs
10 10 23 296 13  143.3 -9.000 -9.000 -9.000 1138. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  289.9  2.0   0  0.00   66.  1007.    2 NAD-SFC NoSubs
10 10 23 296 14  124.2 -9.000 -9.000 -9.000 1244. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  290.5  2.0   0  0.00   63.  1007.    2 NAD-SFC NoSubs
10 10 23 296 15   90.7  0.111  1.492  0.006 1316.   89.    -1.4  0.2940  0.72  0.22  0.50   15.0  15.0  290.8  2.0   0  0.00   60.  1006.    2 NAD-SFC NoSubs
10 10 23 296 16   44.8  0.155  1.189  0.006 1347.  147.    -7.5  0.2940  0.72  0.28  1.00   21.0  15.0  290.9  2.0   0  0.00   63.  1006.    2 NAD-SFC NoSubs
10 10 23 296 17   -2.0  0.094 -9.000 -9.000 -999.   70.    36.6  0.2940  0.72  0.46  1.00   28.0  15.0  290.5  2.0   0  0.00   66.  1006.    2 NAD-SFC NoSubs
10 10 23 296 18   -3.8  0.099 -9.000 -9.000 -999.   75.    22.9  0.2470  0.72  1.00  1.00   51.0  15.0  289.8  2.0   0  0.00   70.  1006.    2 NAD-SFC NoSubs
10 10 23 296 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  289.0  2.0   0  0.00   75.  1007.    2 NAD-SFC NoSubs
10 10 23 296 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  288.2  2.0   0  0.00   79.  1007.    2 NAD-SFC NoSubs
10 10 23 296 21   -1.4  0.079 -9.000 -9.000 -999.   54.    31.1  0.1750  0.72  1.00  0.50  260.0  15.0  287.9  2.0   0  0.00   81.  1008.    2 NAD-SFC NoSubs
10 10 23 296 22   -1.5  0.079 -9.000 -9.000 -999.   54.    31.1  0.1750  0.72  1.00  0.50  266.0  15.0  287.5  2.0   0  0.00   82.  1008.    2 NAD-SFC NoSubs
10 10 23 296 23   -1.6  0.084 -9.000 -9.000 -999.   58.    32.0  0.2720  0.72  1.00  0.50  304.0  15.0  287.2  2.0   0  0.00   82.  1008.    2 NAD-SFC NoSubs
10 10 23 296 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  286.8  2.0   0  0.00   83.  1008.    2 NAD-SFC NoSubs
10 10 24 297  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  286.2  2.0   0  0.00   85.  1007.    2 NAD-SFC NoSubs
10 10 24 297  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  285.9  2.0   0  0.00   87.  1007.    2 NAD-SFC NoSubs
10 10 24 297  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  285.5  2.0   0  0.00   89.  1007.    2 NAD-SFC NoSubs
10 10 24 297  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  285.2  2.0   0  0.00   90.  1007.    2 NAD-SFC NoSubs
10 10 24 297  5   -1.5  0.081 -9.000 -9.000 -999.   55.    31.3  0.2130  0.72  1.00  0.50   95.0  15.0  285.1  2.0   0  0.00   90.  1006.    3 NAD-SFC NoSubs
10 10 24 297  6   -1.5  0.081 -9.000 -9.000 -999.   55.    31.3  0.2130  0.72  1.00  0.50  100.0  15.0  285.1  2.0   0  0.00   90.  1007.    3 NAD-SFC NoSubs
10 10 24 297  7   -6.4  0.128 -9.000 -9.000 -999.  110.    29.3  0.2130  0.72  0.63  1.50  113.0  15.0  285.1  2.0   0  0.00   90.  1007.    5 NAD-SFC NoSubs
10 10 24 297  8    2.2  0.201  0.105  0.007   19.  216.  -332.6  0.1970  0.72  0.33  2.10  122.0  15.0  285.4  2.0   0  0.00   87.  1007.   10 NAD-SFC NoSubs
10 10 24 297  9   14.9  0.304  0.346  0.010   99.  402.  -169.7  0.1970  0.72  0.24  3.10  139.0  15.0  286.5  2.0   0  0.00   81.  1007.   10 NAD-SFC NoSubs
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10 10 24 297 10   25.1 0.348 0.498 0.010  176.  492.  -150.9 0.1810 0.72 0.21  3.60 151.0 15.0 288.2 2.0  0 0.00  72. 1007.  10 NAD-SFC NoSubs
10 10 24 297 11  123.5 0.473 1.134 0.009  424.  780.   -76.9 0.1970 0.72 0.20  4.60 140.0 15.0 289.8 2.0  0 0.00  66. 1006.   6 NAD-SFC NoSubs
10 10 24 297 12  141.3 0.519 1.342 0.007  614.  897.   -88.7 0.1970 0.72 0.20  5.10 140.0 15.0 290.9 2.0  0 0.00  64. 1005.   5 NAD-SFC NoSubs
10 10 24 297 13  137.3 0.476 1.392 0.009  704.  791.   -70.4 0.1970 0.72 0.20  4.60 138.0 15.0 291.6 2.0  0 0.00  66. 1004.   5 NAD-SFC NoSubs
10 10 24 297 14  100.9 0.425 1.282 0.009  748.  668.   -68.2 0.1970 0.72 0.21  4.10 141.0 15.0 291.6 2.0  0 0.00  70. 1003.   7 NAD-SFC NoSubs
10 10 24 297 15   20.7 0.351 0.760 0.009  757.  504.  -187.5 0.1970 0.72 0.22  3.60 146.0 15.0 291.8 2.0  0 0.00  73. 1002.  10 NAD-SFC NoSubs
10 10 24 297 16    9.4 0.294 0.585 0.009  762.  384.  -241.4 0.1810 0.72 0.28  3.10 152.0 15.0 292.2 2.0  0 0.00  73. 1001.  10 NAD-SFC NoSubs
10 10 24 297 17   -3.5 0.131 -9.000 -9.000 -999.  137.    57.0 0.1970 0.72 0.47  1.50 147.0 15.0 292.5 2.0  0 0.00  73. 1001.  10 NAD-SFC NoSubs
10 10 24 297 18   -1.1 0.070 -9.000 -9.000 -999.   46.    27.9 0.2160 0.72 1.00  0.50 294.0 15.0 292.8 2.0  0 0.00  76. 1001.   8 NAD-SFC NoSubs
10 10 24 297 19  -13.5 0.192 -9.000 -9.000 -999.  202.    46.9 0.2470 0.72 1.00  2.10  43.0 15.0 292.1 2.0  0 0.00  81. 1001.   7 NAD-SFC NoSubs
10 10 24 297 20  -22.5 0.306 -9.000 -9.000 -999.  406.   113.6 0.2940 0.72 1.00  3.10  24.0 15.0 291.6 2.0  0 0.00  85. 1001.   8 NAD-SFC NoSubs
10 10 24 297 21  -16.7 0.308 -9.000 -9.000 -999.  410.   156.3 0.2940 0.72 1.00  3.10   5.0 15.0 291.2 2.0  0 0.00  89. 1002.  10 NAD-SFC NoSubs
10 10 24 297 22  -19.5 0.359 -9.000 -9.000 -999.  517.   212.7 0.2930 0.72 1.00  3.60 341.0 15.0 290.9 2.0  0 0.00  91. 1002.  10 NAD-SFC NoSubs
10 10 24 297 23  -34.1 0.461 -9.000 -9.000 -999.  750.   256.7 0.2930 0.72 1.00  4.60 335.0 15.0 290.2 2.0  0 0.00  95. 1003.   8 NAD-SFC NoSubs
10 10 24 297 24  -42.8 0.448 -9.000 -9.000 -999.  721.   188.3 0.2720 0.72 1.00  4.60 314.0 15.0 289.2 2.0  0 0.00  99. 1003.   5 NAD-SFC NoSubs
10 10 25 298  1  -50.2 0.499 -9.000 -9.000 -999.  844.   221.1 0.2720 0.72 1.00  5.10 318.0 15.0 288.6 2.0  0 0.00 100. 1003.   4 NAD-SFC NoSubs
10 10 25 298  2  -52.3 0.498 -9.000 -9.000 -999.  844.   211.9 0.2720 0.72 1.00  5.10 317.0 15.0 287.8 2.0  0 0.00 100. 1004.   3 NAD-SFC NoSubs
10 10 25 298  3  -52.4 0.498 -9.000 -9.000 -999.  844.   211.3 0.2720 0.72 1.00  5.10 313.0 15.0 286.9 2.0  0 0.00  98. 1004.   3 NAD-SFC NoSubs
10 10 25 298  4  -47.2 0.448 -9.000 -9.000 -999.  721.   170.0 0.2720 0.72 1.00  4.60 322.0 15.0 286.2 2.0  0 0.00  97. 1004.   3 NAD-SFC NoSubs
10 10 25 298  5  -47.3 0.447 -9.000 -9.000 -999.  718.   169.7 0.2720 0.72 1.00  4.60 315.0 15.0 285.8 2.0  0 0.00  97. 1004.   3 NAD-SFC NoSubs
10 10 25 298  6  -52.7 0.498 -9.000 -9.000 -999.  843.   210.4 0.2720 0.72 1.00  5.10 314.0 15.0 285.8 2.0  0 0.00  95. 1005.   3 NAD-SFC NoSubs
10 10 25 298  7  -54.0 0.561 -9.000 -9.000 -999. 1006.   292.6 0.2720 0.72 0.64  5.70 313.0 15.0 285.8 2.0  0 0.00  94. 1006.   3 NAD-SFC NoSubs
10 10 25 298  8   22.5 0.521 0.453 0.008  148.  904.  -562.5 0.2720 0.72 0.33  5.10 313.0 15.0 285.8 2.0  0 0.00  93. 1006.   3 NAD-SFC NoSubs
10 10 25 298  9   71.5 0.539 0.948 0.008  428.  949.  -196.7 0.2720 0.72 0.24  5.10 315.0 15.0 286.2 2.0  0 0.00  90. 1007.   3 NAD-SFC NoSubs
10 10 25 298 10  110.1 0.605 1.222 0.008  596. 1127.  -180.6 0.2720 0.72 0.21  5.70 319.0 15.0 287.2 2.0  0 0.00  81. 1007.   3 NAD-SFC NoSubs
10 10 25 298 11  134.9 0.510 1.396 0.008  726.  883.   -88.2 0.2720 0.72 0.20  4.60 311.0 15.0 287.8 2.0  0 0.00  78. 1007.   3 NAD-SFC NoSubs
10 10 25 298 12  145.4 0.467 1.497 0.008  829.  768.   -62.8 0.2720 0.72 0.20  4.10 309.0 15.0 288.6 2.0  0 0.00  71. 1006.   3 NAD-SFC NoSubs
10 10 25 298 13  141.3 0.466 1.536 0.008  920.  763.   -64.2 0.2720 0.72 0.20  4.10 328.0 15.0 290.0 2.0  0 0.00  62. 1005.   3 NAD-SFC NoSubs
10 10 25 298 14  121.3 0.515 1.495 0.008  990.  887.  -101.1 0.2930 0.72 0.21  4.60 345.0 15.0 290.6 2.0  0 0.00  57. 1005.   4 NAD-SFC NoSubs
10 10 25 298 15   89.1 0.554 1.371 0.008 1036.  988.  -170.6 0.2930 0.72 0.23  5.10 345.0 15.0 290.8 2.0  0 0.00  56. 1004.   3 NAD-SFC NoSubs
10 10 25 298 16   43.6 0.491 1.088 0.008 1058.  831.  -243.7 0.2930 0.72 0.29  4.60 345.0 15.0 290.5 2.0  0 0.00  56. 1004.   3 NAD-SFC NoSubs
10 10 25 298 17   -8.6 0.253 -9.000 -9.000 -999.  364.   168.6 0.2720 0.72 0.48  2.60 326.0 15.0 290.2 2.0  0 0.00  61. 1004.   3 NAD-SFC NoSubs
10 10 25 298 18  -24.7 0.246 -9.000 -9.000 -999.  294.    54.1 0.2720 0.72 1.00  2.60 311.0 15.0 289.5 2.0  0 0.00  62. 1004.   3 NAD-SFC NoSubs
10 10 25 298 19  -29.1 0.278 -9.000 -9.000 -999.  352.    66.2 0.2160 0.72 1.00  3.10 298.0 15.0 288.8 2.0  0 0.00  63. 1004.   3 NAD-SFC NoSubs
10 10 25 298 20  -36.3 0.347 -9.000 -9.000 -999.  490.   102.7 0.2720 0.72 1.00  3.60 309.0 15.0 287.9 2.0  0 0.00  66. 1004.   3 NAD-SFC NoSubs
10 10 25 298 21  -36.5 0.347 -9.000 -9.000 -999.  490.   102.3 0.2720 0.72 1.00  3.60 316.0 15.0 286.9 2.0  0 0.00  69. 1004.   3 NAD-SFC NoSubs
10 10 25 298 22  -25.7 0.252 -9.000 -9.000 -999.  307.    55.4 0.2930 0.72 1.00  2.60 335.0 15.0 286.1 2.0  0 0.00  73. 1004.   3 NAD-SFC NoSubs
10 10 25 298 23   -4.0 0.102 -9.000 -9.000 -999.   99.    23.6 0.2930 0.72 1.00  1.00 338.0 15.0 285.2 2.0  0 0.00  76. 1004.   3 NAD-SFC NoSubs
10 10 25 298 24   -1.7 0.084 -9.000 -9.000 -999.   58.    32.0 0.2930 0.72 1.00  0.50 337.0 15.0 284.5 2.0  0 0.00  80. 1004.   3 NAD-SFC NoSubs
10 10 26 299  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00  0.00   0.0 15.0 283.8 2.0  0 0.00  83. 1004.   3 NAD-SFC NoSubs
10 10 26 299  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00  0.00   0.0 15.0 283.2 2.0  0 0.00  85. 1004.   3 NAD-SFC NoSubs
10 10 26 299  3   -1.4 0.079 -9.000 -9.000 -999.   53.    31.0 0.1750 0.72 1.00  0.50 256.0 15.0 282.9 2.0  0 0.00  85. 1003.   3 NAD-SFC NoSubs
10 10 26 299  4   -1.5 0.081 -9.000 -9.000 -999.   55.    31.5 0.2160 0.72 1.00  0.50 287.0 15.0 282.5 2.0  0 0.00  86. 1003.   3 NAD-SFC NoSubs
10 10 26 299  5   -1.6 0.083 -9.000 -9.000 -999.   58.    31.9 0.2720 0.72 1.00  0.50 310.0 15.0 282.2 2.0  0 0.00  87. 1003.   3 NAD-SFC NoSubs
10 10 26 299  6   -1.6 0.084 -9.000 -9.000 -999.   58.    32.0 0.2720 0.72 1.00  0.50 319.0 15.0 281.9 2.0  0 0.00  89. 1004.   3 NAD-SFC NoSubs
10 10 26 299  7   -1.5 0.081 -9.000 -9.000 -999.   55.    31.2 0.2720 0.72 0.64  0.50 316.0 15.0 281.5 2.0  0 0.00  90. 1005.   3 NAD-SFC NoSubs
10 10 26 299  8   20.6 0.091 0.365 0.006   84.   66.    -3.3 0.2930 0.72 0.34  0.50 330.0 15.0 282.0 2.0  0 0.00  89. 1005.   3 NAD-SFC NoSubs
10 10 26 299  9   69.8 0.107 0.832 0.005  295.   84.    -1.6 0.2930 0.72 0.24  0.50 347.0 15.0 284.0 2.0  0 0.00  80. 1005.   3 NAD-SFC NoSubs
10 10 26 299 10  108.4 0.112 1.152 0.005  505.   90.    -1.2 0.2720 0.72 0.21  0.50 316.0 15.0 285.6 2.0  0 0.00  72. 1005.   3 NAD-SFC NoSubs
10 10 26 299 11  132.9 0.175 1.377 0.006  705.  176.    -3.6 0.2720 0.72 0.20  1.00 309.0 15.0 287.0 2.0  0 0.00  64. 1005.   2 NAD-SFC NoSubs
10 10 26 299 12  143.6 0.285 1.497 0.006  838.  365.   -14.4 0.2720 0.72 0.20  2.10 319.0 15.0 288.2 2.0  0 0.00  57. 1004.   2 NAD-SFC NoSubs
10 10 26 299 13  139.3 0.382 1.545 0.007  950.  566.   -35.8 0.2930 0.72 0.20  3.10 330.0 15.0 289.2 2.0  0 0.00  52. 1004.   2 NAD-SFC NoSubs
10 10 26 299 14  120.1 0.469 1.512 0.007 1031.  770.   -76.7 0.2930 0.72 0.21  4.10 335.0 15.0 289.8 2.0  0 0.00  50. 1003.   2 NAD-SFC NoSubs
10 10 26 299 15   86.6 0.506 1.379 0.007 1085.  864.  -134.0 0.2930 0.72 0.23  4.60 342.0 15.0 290.0 2.0  0 0.00  51. 1003.   2 NAD-SFC NoSubs
10 10 26 299 16   40.8 0.490 1.081 0.007 1109.  824.  -258.1 0.2930 0.72 0.29  4.60 339.0 15.0 290.0 2.0  0 0.00  55. 1002.   2 NAD-SFC NoSubs
10 10 26 299 17  -11.9 0.303 -9.000 -9.000 -999.  430.   208.6 0.2720 0.72 0.48  3.10 322.0 15.0 289.5 2.0  0 0.00  61. 1002.   3 NAD-SFC NoSubs
10 10 26 299 18  -24.7 0.246 -9.000 -9.000 -999.  295.    54.0 0.2720 0.72 1.00  2.60 313.0 15.0 288.8 2.0  0 0.00  63. 1003.   3 NAD-SFC NoSubs
10 10 26 299 19   -7.2 0.129 -9.000 -9.000 -999.  119.    26.7 0.2160 0.72 1.00  1.50 297.0 15.0 287.8 2.0  0 0.00  66. 1003.   3 NAD-SFC NoSubs
10 10 26 299 20   -1.6 0.083 -9.000 -9.000 -999.   58.    31.8 0.2720 0.72 1.00  0.50 310.0 15.0 286.9 2.0  0 0.00  67. 1004.   3 NAD-SFC NoSubs
10 10 26 299 21   -1.6 0.084 -9.000 -9.000 -999.   58.    31.9 0.2940 0.72 1.00  0.50   9.0 15.0 286.2 2.0  0 0.00  68. 1004.   3 NAD-SFC NoSubs
10 10 26 299 22   -1.5 0.081 -9.000 -9.000 -999.   55.    31.4 0.1970 0.72 1.00  0.50 145.0 15.0 285.1 2.0  0 0.00  73. 1004.   2 NAD-SFC NoSubs
10 10 26 299 23   -6.8 0.124 -9.000 -9.000 -999.  104.    24.8 0.1810 0.72 1.00  1.50 162.0 15.0 284.1 2.0  0 0.00  77. 1004.   2 NAD-SFC NoSubs
10 10 26 299 24   -7.0 0.125 -9.000 -9.000 -999.  106.    25.1 0.1900 0.72 1.00  1.50 205.0 15.0 283.5 2.0  0 0.00  78. 1004.   2 NAD-SFC NoSubs
10 10 27 300  1   -7.0 0.126 -9.000 -9.000 -999.  107.    25.3 0.1950 0.72 1.00  1.50 239.0 15.0 283.2 2.0  0 0.00  75. 1004.   2 NAD-SFC NoSubs
10 10 27 300  2   -3.6 0.096 -9.000 -9.000 -999.   71.    22.0 0.1900 0.72 1.00  1.00 209.0 15.0 282.8 2.0  0 0.00  74. 1005.   2 NAD-SFC NoSubs
10 10 27 300  3   -7.0 0.125 -9.000 -9.000 -999.  106.    25.1 0.1900 0.72 1.00  1.50 198.0 15.0 282.0 2.0  0 0.00  76. 1005.   2 NAD-SFC NoSubs
10 10 27 300  4  -20.9 0.218 -9.000 -9.000 -999.  244.    44.4 0.1750 0.72 1.00  2.60 247.0 15.0 281.4 2.0  0 0.00  77. 1006.   2 NAD-SFC NoSubs
10 10 27 300  5  -30.7 0.278 -9.000 -9.000 -999.  351.    62.5 0.2160 0.72 1.00  3.10 274.0 15.0 280.6 2.0  0 0.00  77. 1006.   2 NAD-SFC NoSubs
10 10 27 300  6  -20.9 0.218 -9.000 -9.000 -999.  245.    44.3 0.1750 0.72 1.00  2.60 268.0 15.0 280.1 2.0  0 0.00  77. 1007.   2 NAD-SFC NoSubs
10 10 27 300  7  -20.4 0.218 -9.000 -9.000 -999.  245.    45.8 0.1750 0.72 0.65  2.60 265.0 15.0 279.8 2.0  0 0.00  76. 1007.   2 NAD-SFC NoSubs
10 10 27 300  8   17.7 0.217 0.334 0.010   76.  242.   -51.4 0.1750 0.72 0.34  2.10 262.0 15.0 280.4 2.0  0 0.00  72. 1007.   2 NAD-SFC NoSubs
10 10 27 300  9   67.2 0.146 0.720 0.010  199.  136.    -4.2 0.1750 0.72 0.24  1.00 268.0 15.0 282.5 2.0  0 0.00  63. 1007.   2 NAD-SFC NoSubs
10 10 27 300 10  106.3 0.101 1.011 0.010  350.   78.    -1.0 0.1750 0.72 0.21  0.50 264.0 15.0 284.8 2.0  0 0.00  56. 1007.   2 NAD-SFC NoSubs
10 10 27 300 11  131.8 0.109 1.204 0.009  476.   87.    -1.0 0.2160 0.72 0.20  0.50 274.0 15.0 287.4 2.0  0 0.00  46. 1007.   2 NAD-SFC NoSubs
10 10 27 300 12  142.7 -9.000 -9.000 -9.000  584. -999. -99999.0 0.2235 0.72 0.20  0.00   0.0 15.0 289.5 2.0  0 0.00  40. 1006.   2 NAD-SFC NoSubs
10 10 27 300 13  138.8 -9.000 -9.000 -9.000  677. -999. -99999.0 0.2235 0.72 0.20  0.00   0.0 15.0 291.4 2.0  0 0.00  35. 1005.   2 NAD-SFC NoSubs
10 10 27 300 14  120.0 0.115 1.365 0.007  761.   94.    -1.1 0.2930 0.72 0.21  0.50 335.0 15.0 293.0 2.0  0 0.00  32. 1005.   2 NAD-SFC NoSubs
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10 10 27 300 15   86.9  0.168  1.256  0.007  817.  166.    -4.9  0.2930  0.72  0.23  1.00  344.0  15.0  294.2  2.0  0  0.00  29.  1005.  2 NAD-SFC NoSubs
10 10 27 300 16   41.6  0.195  0.994  0.007  844.  207.   -16.0  0.2470  0.72  0.29  1.50   35.0  15.0  295.4  2.0  0  0.00  30.  1004.  2 NAD-SFC NoSubs
10 10 27 300 17  -15.7  0.343 -9.000 -9.000 -999.  483.   230.8  0.2470  0.72  0.49  3.60   31.0  15.0  293.4  2.0  0  0.00  40.  1005.  2 NAD-SFC NoSubs
10 10 27 300 18  -46.4  0.435 -9.000 -9.000 -999.  689.   159.3  0.2470  0.72  1.00  4.60   45.0  15.0  290.8  2.0  0  0.00  50.  1005.  2 NAD-SFC NoSubs
10 10 27 300 19  -39.6  0.369 -9.000 -9.000 -999.  541.   114.0  0.2090  0.72  1.00  4.10   69.0  15.0  289.4  2.0  0  0.00  51.  1006.  2 NAD-SFC NoSubs
10 10 27 300 20  -29.8  0.277 -9.000 -9.000 -999.  354.    63.9  0.2130  0.72  1.00  3.10   99.0  15.0  288.6  2.0  0  0.00  48.  1006.  2 NAD-SFC NoSubs
10 10 27 300 21   -7.2  0.128 -9.000 -9.000 -999.  128.    26.2  0.2130  0.72  1.00  1.50  119.0  15.0  287.8  2.0  0  0.00  48.  1006.  2 NAD-SFC NoSubs
10 10 27 300 22   -1.5  0.081 -9.000 -9.000 -999.   56.    31.5  0.2130  0.72  1.00  0.50  119.0  15.0  287.2  2.0  0  0.00  47.  1007.  2 NAD-SFC NoSubs
10 10 27 300 23   -1.5  0.081 -9.000 -9.000 -999.   55.    31.5  0.2090  0.72  1.00  0.50   73.0  15.0  287.1  2.0  0  0.00  45.  1007.  2 NAD-SFC NoSubs
10 10 27 300 24   -1.7  0.085 -9.000 -9.000 -999.   59.    32.2  0.2940  0.72  1.00  0.50   20.0  15.0  286.9  2.0  0  0.00  44.  1007.  2 NAD-SFC NoSubs
10 10 28 301  1   -1.7  0.085 -9.000 -9.000 -999.   59.    32.2  0.2940  0.72  1.00  0.50   15.0  15.0  286.6  2.0  0  0.00  45.  1007.  2 NAD-SFC NoSubs
10 10 28 301  2   -4.1  0.103 -9.000 -9.000 -999.   79.    23.7  0.2940  0.72  1.00  1.00    9.0  15.0  286.0  2.0  0  0.00  47.  1007.  2 NAD-SFC NoSubs
10 10 28 301  3   -8.4  0.140 -9.000 -9.000 -999.  126.    29.3  0.2940  0.72  1.00  1.50   19.0  15.0  285.4  2.0  0  0.00  51.  1007.  2 NAD-SFC NoSubs
10 10 28 301  4   -8.4  0.140 -9.000 -9.000 -999.  126.    29.2  0.2940  0.72  1.00  1.50   10.0  15.0  284.8  2.0  0  0.00  55.  1007.  2 NAD-SFC NoSubs
10 10 28 301  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  284.5  2.0  0  0.00  57.  1007.  2 NAD-SFC NoSubs
10 10 28 301  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  284.4  2.0  0  0.00  57.  1007.  2 NAD-SFC NoSubs
10 10 28 301  7   -8.2  0.140 -9.000 -9.000 -999.  126.    29.9  0.2940  0.72  0.66  1.50    6.0  15.0  284.5  2.0  0  0.00  57.  1007.  2 NAD-SFC NoSubs
10 10 28 301  8   17.6  0.187  0.294  0.008   52.  193.   -33.1  0.2940  0.72  0.34  1.50   15.0  15.0  284.8  2.0  0  0.00  56.  1007.  2 NAD-SFC NoSubs
10 10 28 301  9   66.7  0.269  0.689  0.006  177.  334.   -26.2  0.2940  0.72  0.25  2.10    3.0  15.0  285.2  2.0  0  0.00  57.  1008.  2 NAD-SFC NoSubs
10 10 28 301 10  106.3  0.224  0.979  0.006  317.  255.    -9.5  0.2940  0.72  0.21  1.50    7.0  15.0  289.2  2.0  0  0.00  41.  1008.  2 NAD-SFC NoSubs
10 10 28 301 11  132.3  0.178  1.226  0.005  501.  180.    -3.8  0.2930  0.72  0.20  1.00  337.0  15.0  292.4  2.0  0  0.00  32.  1007.  2 NAD-SFC NoSubs
10 10 28 301 12  143.3  0.228  1.422  0.005  720.  261.    -7.4  0.2720  0.72  0.20  1.50  328.0  15.0  294.2  2.0  0  0.00  30.  1006.  2 NAD-SFC NoSubs
10 10 28 301 13  139.1  0.231  1.508  0.005  887.  266.    -7.9  0.2930  0.72  0.20  1.50  331.0  15.0  295.2  2.0  0  0.00  29.  1006.  2 NAD-SFC NoSubs
10 10 28 301 14  120.0  0.280  1.500  0.005 1010.  356.   -16.4  0.2720  0.72  0.21  2.10  326.0  15.0  295.9  2.0  0  0.00  29.  1005.  2 NAD-SFC NoSubs
10 10 28 301 15   86.3  0.368  1.380  0.005 1091.  535.   -51.5  0.2930  0.72  0.23  3.10  336.0  15.0  295.8  2.0  0  0.00  32.  1004.  2 NAD-SFC NoSubs
10 10 28 301 16   40.1  0.349  1.080  0.006 1124.  495.   -94.7  0.2930  0.72  0.29  3.10  348.0  15.0  294.8  2.0  0  0.00  42.  1004.  2 NAD-SFC NoSubs
10 10 28 301 17    1.3 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.50  0.00    0.0  15.0  293.4  2.0  0  0.00  49.  1004.  2 NAD-SFC NoSubs
10 10 28 301 18  -37.6  0.355 -9.000 -9.000 -999.  507.   106.2  0.2940  0.72  1.00  3.60    6.0  15.0  292.0  2.0  0  0.00  53.  1004.  2 NAD-SFC NoSubs
10 10 28 301 19  -37.8  0.355 -9.000 -9.000 -999.  507.   105.9  0.2940  0.72  1.00  3.60    3.0  15.0  291.1  2.0  0  0.00  54.  1005.  2 NAD-SFC NoSubs
10 10 28 301 20  -43.4  0.406 -9.000 -9.000 -999.  620.   138.1  0.2930  0.72  1.00  4.10  338.0  15.0  290.2  2.0  0  0.00  55.  1006.  2 NAD-SFC NoSubs
10 10 28 301 21  -53.4  0.498 -9.000 -9.000 -999.  843.   207.4  0.2720  0.72  1.00  5.10  325.0  15.0  289.2  2.0  0  0.00  57.  1006.  2 NAD-SFC NoSubs
10 10 28 301 22  -48.3  0.447 -9.000 -9.000 -999.  721.   166.5  0.2720  0.72  1.00  4.60  324.0  15.0  287.9  2.0  0  0.00  61.  1007.  2 NAD-SFC NoSubs
10 10 28 301 23  -43.9  0.406 -9.000 -9.000 -999.  622.   136.5  0.2930  0.72  1.00  4.10  330.0  15.0  287.0  2.0  0  0.00  63.  1007.  2 NAD-SFC NoSubs
10 10 28 301 24  -44.0  0.406 -9.000 -9.000 -999.  620.   136.2  0.2930  0.72  1.00  4.10  349.0  15.0  286.4  2.0  0  0.00  65.  1007.  2 NAD-SFC NoSubs
10 10 29 302  1  -44.1  0.406 -9.000 -9.000 -999.  621.   136.1  0.2940  0.72  1.00  4.10    9.0  15.0  285.8  2.0  0  0.00  66.  1007.  2 NAD-SFC NoSubs
10 10 29 302  2  -44.2  0.406 -9.000 -9.000 -999.  621.   136.0  0.2940  0.72  1.00  4.10   18.0  15.0  285.4  2.0  0  0.00  68.  1007.  2 NAD-SFC NoSubs
10 10 29 302  3  -33.0  0.303 -9.000 -9.000 -999.  407.    75.7  0.2940  0.72  1.00  3.10   19.0  15.0  285.1  2.0  0  0.00  68.  1007.  2 NAD-SFC NoSubs
10 10 29 302  4   -8.4  0.140 -9.000 -9.000 -999.  149.    29.2  0.2940  0.72  1.00  1.50   13.0  15.0  284.6  2.0  0  0.00  70.  1007.  2 NAD-SFC NoSubs
10 10 29 302  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  284.1  2.0  0  0.00  72.  1007.  2 NAD-SFC NoSubs
10 10 29 302  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  283.5  2.0  0  0.00  74.  1007.  2 NAD-SFC NoSubs
10 10 29 302  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.67  0.00    0.0  15.0  283.0  2.0  0  0.00  76.  1007.  2 NAD-SFC NoSubs
10 10 29 302  8   16.2 -9.000 -9.000 -9.000   62. -999. -99999.0  0.2235  0.72  0.35  0.00    0.0  15.0  283.2  2.0  0  0.00  76.  1007.  2 NAD-SFC NoSubs
10 10 29 302  9   65.8 -9.000 -9.000 -9.000  205. -999. -99999.0  0.2235  0.72  0.25  0.00    0.0  15.0  286.2  2.0  0  0.00  63.  1007.  2 NAD-SFC NoSubs
10 10 29 302 10  104.9 -9.000 -9.000 -9.000  347. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  288.5  2.0  0  0.00  55.  1007.  2 NAD-SFC NoSubs
10 10 29 302 11  130.5 -9.000 -9.000 -9.000  500. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  290.8  2.0  0  0.00  47.  1006.  2 NAD-SFC NoSubs
10 10 29 302 12  141.3 -9.000 -9.000 -9.000  639. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  292.5  2.0  0  0.00  39.  1005.  2 NAD-SFC NoSubs
10 10 29 302 13  137.2 -9.000 -9.000 -9.000  822. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  293.8  2.0  0  0.00  36.  1004.  2 NAD-SFC NoSubs
10 10 29 302 14  118.2 -9.000 -9.000 -9.000  963. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  294.6  2.0  0  0.00  34.  1003.  2 NAD-SFC NoSubs
10 10 29 302 15   84.9  0.110  1.355  0.005 1049.   88.    -1.4  0.2940  0.72  0.23  0.50   23.0  15.0  295.2  2.0  0  0.00  34.  1003.  2 NAD-SFC NoSubs
10 10 29 302 16   39.2  0.153  1.060  0.005 1086.  144.    -8.2  0.2940  0.72  0.30  1.00   13.0  15.0  295.2  2.0  0  0.00  35.  1002.  2 NAD-SFC NoSubs
10 10 29 302 17   -5.5  0.144 -9.000 -9.000 -999.  131.    48.1  0.2930  0.72  0.50  1.50  352.0  15.0  294.6  2.0  0  0.00  39.  1002.  3 NAD-SFC NoSubs
10 10 29 302 18   -8.1  0.140 -9.000 -9.000 -999.  125.    30.0  0.2930  0.72  1.00  1.50  339.0  15.0  293.2  2.0  0  0.00  45.  1002.  3 NAD-SFC NoSubs
10 10 29 302 19   -7.9  0.137 -9.000 -9.000 -999.  121.    29.1  0.2720  0.72  1.00  1.50  323.0  15.0  291.8  2.0  0  0.00  52.  1002.  3 NAD-SFC NoSubs
10 10 29 302 20  -24.6  0.246 -9.000 -9.000 -999.  293.    54.3  0.2720  0.72  1.00  2.60  316.0  15.0  291.2  2.0  0  0.00  56.  1002.  3 NAD-SFC NoSubs
10 10 29 302 21  -25.5  0.252 -9.000 -9.000 -999.  303.    55.9  0.2930  0.72  1.00  2.60  342.0  15.0  290.8  2.0  0  0.00  60.  1002.  3 NAD-SFC NoSubs
10 10 29 302 22   -4.0  0.102 -9.000 -9.000 -999.   98.    23.7  0.2940  0.72  1.00  1.00   18.0  15.0  290.4  2.0  0  0.00  63.  1003.  3 NAD-SFC NoSubs
10 10 29 302 23   -1.5  0.080 -9.000 -9.000 -999.   54.    31.1  0.2090  0.72  1.00  0.50   71.0  15.0  290.2  2.0  0  0.00  64.  1003.  3 NAD-SFC NoSubs
10 10 29 302 24   -1.4  0.077 -9.000 -9.000 -999.   51.    30.3  0.1750  0.72  1.00  0.50  245.0  15.0  290.2  2.0  0  0.00  62.  1003.  4 NAD-SFC NoSubs
10 10 30 303  1   -3.5  0.095 -9.000 -9.000 -999.   71.    22.4  0.2160  0.72  1.00  1.00  290.0  15.0  289.8  2.0  0  0.00  64.  1003.  4 NAD-SFC NoSubs
10 10 30 303  2   -7.3  0.137 -9.000 -9.000 -999.  122.    31.3  0.2720  0.72  1.00  1.50  325.0  15.0  289.1  2.0  0  0.00  69.  1003.  6 NAD-SFC NoSubs
10 10 30 303  3  -16.9  0.308 -9.000 -9.000 -999.  410.   154.3  0.2940  0.72  1.00  3.10   13.0  15.0  287.8  2.0  0  0.51  82.  1003.  10 NAD-SFC NoSubs
10 10 30 303  4   -6.4  0.134 -9.000 -9.000 -999.  145.    33.3  0.2470  0.72  1.00  1.50   46.0  15.0  287.1  2.0  0  1.27  91.  1003.  8 NAD-SFC NoSubs
10 10 30 303  5   -5.2  0.130 -9.000 -9.000 -999.  113.    37.6  0.2130  0.72  1.00  1.50  118.0  15.0  286.9  2.0  0  0.76  93.  1003.  10 NAD-SFC NoSubs
10 10 30 303  6  -12.7  0.184 -9.000 -9.000 -999.  190.    43.8  0.2130  0.72  1.00  2.10  116.0  15.0  287.0  2.0  0  0.25  92.  1004.  7 NAD-SFC NoSubs
10 10 30 303  7   -6.3  0.126 -9.000 -9.000 -999.  108.    28.4  0.1970  0.72  0.68  1.50  127.0  15.0  286.9  2.0  0  0.00  91.  1005.  6 NAD-SFC NoSubs
10 10 30 303  8   19.3  0.132  0.495  0.005  225.  115.   -10.6  0.2130  0.72  0.35  1.00   99.0  15.0  286.9  2.0  0  0.00  90.  1006.  5 NAD-SFC NoSubs
10 10 30 303  9   65.1  0.099  0.945  0.005  465.   75.    -1.4  0.2160  0.72  0.25  0.50  297.0  15.0  288.4  2.0  0  0.00  76.  1006.  5 NAD-SFC NoSubs
10 10 30 303 10  104.2  0.220  1.230  0.005  641.  247.    -9.1  0.2720  0.72  0.21  1.50  324.0  15.0  289.5  2.0  0  0.00  67.  1006.  4 NAD-SFC NoSubs
10 10 30 303 11  117.4  0.226  1.434  0.005  903.  258.    -8.8  0.2930  0.72  0.20  1.50  330.0  15.0  290.4  2.0  0  0.00  61.  1006.  6 NAD-SFC NoSubs
10 10 30 303 12   94.5  0.221  1.386  0.006 1012.  249.   -10.2  0.2930  0.72  0.20  1.50  336.0  15.0  291.1  2.0  0  0.00  56.  1006.  8 NAD-SFC NoSubs
10 10 30 303 13  122.6  0.227  1.550  0.005 1092.  260.    -8.6  0.2930  0.72  0.20  1.50  353.0  15.0  291.5  2.0  0  0.00  53.  1006.  6 NAD-SFC NoSubs
10 10 30 303 14  112.4  0.112  1.537  0.005 1160.   98.    -1.1  0.2720  0.72  0.21  0.50  328.0  15.0  291.9  2.0  0  0.00  50.  1006.  5 NAD-SFC NoSubs
10 10 30 303 15   81.2  0.110  1.398  0.005 1207.   87.    -1.5  0.2940  0.72  0.23  0.50   23.0  15.0  292.0  2.0  0  0.00  49.  1005.  5 NAD-SFC NoSubs
10 10 30 303 16   38.7  0.096  1.099  0.005 1229.   71.    -2.0  0.2470  0.72  0.30  0.50   49.0  15.0  292.1  2.0  0  0.00  49.  1005.  5 NAD-SFC NoSubs
10 10 30 303 17   -2.1  0.085 -9.000 -9.000 -999.   60.    26.5  0.2090  0.72  0.51  1.00   64.0  15.0  291.8  2.0  0  0.00  53.  1005.  4 NAD-SFC NoSubs
10 10 30 303 18   -6.9  0.128 -9.000 -9.000 -999.  109.    27.0  0.2090  0.72  1.00  1.50   64.0  15.0  291.1  2.0  0  0.00  57.  1006.  4 NAD-SFC NoSubs
10 10 30 303 19   -6.9  0.128 -9.000 -9.000 -999.  109.    26.9  0.2090  0.72  1.00  1.50   83.0  15.0  290.2  2.0  0  0.00  61.  1007.  4 NAD-SFC NoSubs
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10 10 30 303 20   -3.3  0.094 -9.000 -9.000 -999.   69.     22.3  0.2130  0.72  1.00  1.00 108.0  15.0 289.9  2.0    0  0.00   64.  1007.    5 NAD-SFC NoSubs
10 10 30 303 21   -3.2  0.092 -9.000 -9.000 -999.   67.     22.0  0.1950  0.72  1.00  1.00 219.0  15.0 289.6  2.0    0  0.00   66.  1008.    5 NAD-SFC NoSubs
10 10 30 303 22  -22.0  0.231 -9.000 -9.000 -999.  266.     50.5  0.2160  0.72  1.00  2.60 280.0  15.0 288.5  2.0    0  0.00   74.  1009.    4 NAD-SFC NoSubs
10 10 30 303 23  -14.1  0.183 -9.000 -9.000 -999.  189.     39.3  0.2160  0.72  1.00  2.10 299.0  15.0 287.2  2.0    0  0.00   81.  1009.    4 NAD-SFC NoSubs
10 10 30 303 24   -7.7  0.137 -9.000 -9.000 -999.  122.     30.1  0.2720  0.72  1.00  1.50 307.0  15.0 286.5  2.0    0  0.00   85.  1010.    5 NAD-SFC NoSubs
10 10 31 304  1   -6.9  0.129 -9.000 -9.000 -999.  111.     27.7  0.2160  0.72  1.00  1.50 290.0  15.0 285.8  2.0    0  0.00   89.  1010.    5 NAD-SFC NoSubs
10 10 31 304  2   -3.2  0.091 -9.000 -9.000 -999.   66.     21.6  0.1750  0.72  1.00  1.00 260.0  15.0 285.0  2.0    0  0.00   92.  1010.    5 NAD-SFC NoSubs
10 10 31 304  3   -3.3  0.093 -9.000 -9.000 -999.   68.     22.0  0.1950  0.72  1.00  1.00 236.0  15.0 284.5  2.0    0  0.00   94.  1010.    5 NAD-SFC NoSubs
10 10 31 304  4   -3.4  0.094 -9.000 -9.000 -999.   69.     22.0  0.1950  0.72  1.00  1.00 227.0  15.0 284.1  2.0    0  0.00   95.  1011.    4 NAD-SFC NoSubs
10 10 31 304  5   -6.8  0.125 -9.000 -9.000 -999.  107.     26.0  0.1950  0.72  1.00  1.50 210.0  15.0 283.8  2.0    0  0.00   95.  1011.    4 NAD-SFC NoSubs
10 10 31 304  6   -6.8  0.125 -9.000 -9.000 -999.  106.     25.8  0.1900  0.72  1.00  1.50 197.0  15.0 283.8  2.0    0  0.00   94.  1012.    4 NAD-SFC NoSubs
10 10 31 304  7   -3.5  0.095 -9.000 -9.000 -999.   70.     22.0  0.1900  0.72  0.69  1.00 195.0  15.0 283.6  2.0    0  0.00   94.  1012.    2 NAD-SFC NoSubs
10 10 31 304  8   14.3  0.079  0.361  0.007  118.   54.     -3.2  0.1900  0.72  0.35  0.50 191.0  15.0 283.8  2.0    0  0.00   94.  1012.    2 NAD-SFC NoSubs
10 10 31 304  9   63.1 -9.000 -9.000 -9.000  275. -999. -99999.0  0.2235  0.72  0.25  0.00   0.0  15.0 285.0  2.0    0  0.00   87.  1013.    2 NAD-SFC NoSubs
10 10 31 304 10  101.8 -9.000 -9.000 -9.000  447. -999. -99999.0  0.2235  0.72  0.22  0.00   0.0  15.0 286.2  2.0    0  0.00   81.  1013.    2 NAD-SFC NoSubs
10 10 31 304 11  127.1 -9.000 -9.000 -9.000  614. -999. -99999.0  0.2235  0.72  0.20  0.00   0.0  15.0 287.8  2.0    0  0.00   75.  1013.    2 NAD-SFC NoSubs
10 10 31 304 12  137.7 -9.000 -9.000 -9.000  785. -999. -99999.0  0.2235  0.72  0.20  0.00   0.0  15.0 289.2  2.0    0  0.00   68.  1012.    2 NAD-SFC NoSubs
10 10 31 304 13  133.5 -9.000 -9.000 -9.000  931. -999. -99999.0  0.2235  0.72  0.20  0.00   0.0  15.0 290.4  2.0    0  0.00   62.  1011.    2 NAD-SFC NoSubs
10 10 31 304 14  114.4 -9.000 -9.000 -9.000 1034. -999. -99999.0  0.2235  0.72  0.21  0.00   0.0  15.0 291.2  2.0    0  0.00   57.  1011.    2 NAD-SFC NoSubs
10 10 31 304 15   81.0  0.110  1.352  0.007 1100.   87.     -1.5  0.2930  0.72  0.23  0.50 350.0  15.0 291.8  2.0    0  0.00   54.  1010.    2 NAD-SFC NoSubs
10 10 31 304 16   35.5  0.151  1.035  0.007 1126.  141.     -8.8  0.2940  0.72  0.30  1.00  11.0  15.0 291.8  2.0    0  0.00   54.  1010.    2 NAD-SFC NoSubs
10 10 31 304 17   -1.0  0.066 -9.000 -9.000 -999.   44.     26.9  0.2470  0.72  0.52  0.50  49.0  15.0 291.5  2.0    0  0.00   58.  1010.    2 NAD-SFC NoSubs
10 10 31 304 18   -3.6  0.096 -9.000 -9.000 -999.   72.     22.3  0.2090  0.72  1.00  1.00  73.0  15.0 290.5  2.0    0  0.00   63.  1010.    2 NAD-SFC NoSubs
10 10 31 304 19   -7.2  0.128 -9.000 -9.000 -999.  110.     26.1  0.2090  0.72  1.00  1.50  89.0  15.0 289.2  2.0    0  0.00   69.  1011.    2 NAD-SFC NoSubs
10 10 31 304 20   -7.3  0.128 -9.000 -9.000 -999.  110.     26.2  0.2130  0.72  1.00  1.50 114.0  15.0 288.2  2.0    0  0.00   74.  1011.    2 NAD-SFC NoSubs
10 10 31 304 21   -7.3  0.128 -9.000 -9.000 -999.  110.     26.2  0.2130  0.72  1.00  1.50 116.0  15.0 287.2  2.0    0  0.00   77.  1011.    2 NAD-SFC NoSubs
10 10 31 304 22  -14.5  0.182 -9.000 -9.000 -999.  186.     37.6  0.2130  0.72  1.00  2.10 118.0  15.0 286.5  2.0    0  0.00   81.  1012.    2 NAD-SFC NoSubs
10 10 31 304 23  -14.0  0.178 -9.000 -9.000 -999.  181.     36.4  0.1970  0.72  1.00  2.10 124.0  15.0 285.8  2.0    0  0.00   83.  1012.    2 NAD-SFC NoSubs
10 10 31 304 24   -7.3  0.128 -9.000 -9.000 -999.  111.     26.1  0.2130  0.72  1.00  1.50 117.0  15.0 285.1  2.0    0  0.00   86.  1012.    2 NAD-SFC NoSubs
10 11  1 305  1   -3.7  0.097 -9.000 -9.000 -999.   73.     22.4  0.2130  0.72  1.00  1.00 116.0  15.0 284.5  2.0    0  0.00   89.  1012.    2 NAD-SFC NoSubs
10 11  1 305  2   -1.6  0.082 -9.000 -9.000 -999.   56.     31.7  0.2130  0.72  1.00  0.50 110.0  15.0 284.0  2.0    0  0.00   92.  1012.    2 NAD-SFC NoSubs
10 11  1 305  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 283.6  2.0    0  0.00   94.  1012.    2 NAD-SFC NoSubs
10 11  1 305  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 283.2  2.0    0  0.00   95.  1013.    2 NAD-SFC NoSubs
10 11  1 305  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 282.9  2.0    0  0.00   97.  1013.    2 NAD-SFC NoSubs
10 11  1 305  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 282.1  2.0    0  0.00   99.  1013.    2 NAD-SFC NoSubs
10 11  1 305  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.70  0.00   0.0  15.0 280.9  2.0    0  0.00  100.  1014.    2 NAD-SFC NoSubs
10 11  1 305  8   12.6 -9.000 -9.000 -9.000   50. -999. -99999.0  0.2235  0.72  0.36  0.00   0.0  15.0 280.8  2.0    0  0.00  100.  1014.    2 NAD-SFC NoSubs
10 11  1 305  9   61.3 -9.000 -9.000 -9.000  197. -999. -99999.0  0.2235  0.72  0.25  0.00   0.0  15.0 282.0  2.0    0  0.00  100.  1014.    2 NAD-SFC NoSubs
10 11  1 305 10  100.1 -9.000 -9.000 -9.000  440. -999. -99999.0  0.2235  0.72  0.22  0.00   0.0  15.0 284.0  2.0    0  0.00   97.  1015.    2 NAD-SFC NoSubs
10 11  1 305 11  125.4  0.114  1.296  0.013  629.   92.     -1.1  0.2720  0.72  0.20  0.50 328.0  15.0 286.2  2.0    0  0.00   86.  1014.    2 NAD-SFC NoSubs
10 11  1 305 12  136.3  0.178  1.386  0.014  706.  181.     -3.7  0.2930  0.72  0.20  1.00 330.0  15.0 288.8  2.0    0  0.00   73.  1013.    2 NAD-SFC NoSubs
10 11  1 305 13  132.2  0.229  1.405  0.013  759.  263.     -8.2  0.2930  0.72  0.20  1.50 342.0  15.0 290.2  2.0    0  0.00   65.  1013.    2 NAD-SFC NoSubs
10 11  1 305 14  113.2  0.225  1.359  0.013  802.  256.     -9.1  0.2930  0.72  0.21  1.50 337.0  15.0 291.2  2.0    0  0.00   61.  1012.    2 NAD-SFC NoSubs
10 11  1 305 15   79.9  0.217  1.225  0.013  830.  242.    -11.5  0.2930  0.72  0.23  1.50 341.0  15.0 291.8  2.0    0  0.00   58.  1012.    2 NAD-SFC NoSubs
10 11  1 305 16   35.4  0.250  0.939  0.013  845.  301.    -40.0  0.2720  0.72  0.30  2.10 329.0  15.0 294.2  2.0    0  0.00   49.  1011.    2 NAD-SFC NoSubs
10 11  1 305 17   -6.5  0.142 -9.000 -9.000 -999.  134.     39.4  0.2930  0.72  0.52  1.50 351.0  15.0 293.9  2.0    0  0.00   54.  1011.    2 NAD-SFC NoSubs
10 11  1 305 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 292.9  2.0    0  0.00   58.  1012.    2 NAD-SFC NoSubs
10 11  1 305 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 291.6  2.0    0  0.00   64.  1012.    2 NAD-SFC NoSubs
10 11  1 305 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 290.5  2.0    0  0.00   70.  1012.    2 NAD-SFC NoSubs
10 11  1 305 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 289.5  2.0    0  0.00   75.  1012.    2 NAD-SFC NoSubs
10 11  1 305 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 288.8  2.0    0  0.00   79.  1012.    2 NAD-SFC NoSubs
10 11  1 305 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 288.1  2.0    0  0.00   82.  1012.    2 NAD-SFC NoSubs
10 11  1 305 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 287.5  2.0    0  0.00   85.  1012.    2 NAD-SFC NoSubs
10 11  2 306  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 286.9  2.0    0  0.00   87.  1012.    2 NAD-SFC NoSubs
10 11  2 306  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 286.5  2.0    0  0.00   87.  1012.    2 NAD-SFC NoSubs
10 11  2 306  3   -1.7  0.084 -9.000 -9.000 -999.   58.     32.1  0.2720  0.72  1.00  0.50 311.0  15.0 286.2  2.0    0  0.00   87.  1012.    2 NAD-SFC NoSubs
10 11  2 306  4   -1.6  0.082 -9.000 -9.000 -999.   56.     31.6  0.2160  0.72  1.00  0.50 296.0  15.0 286.1  2.0    0  0.00   87.  1012.    2 NAD-SFC NoSubs
10 11  2 306  5   -1.6  0.082 -9.000 -9.000 -999.   56.     31.6  0.2160  0.72  1.00  0.50 277.0  15.0 285.8  2.0    0  0.00   87.  1012.    2 NAD-SFC NoSubs
10 11  2 306  6   -3.5  0.094 -9.000 -9.000 -999.   69.     21.7  0.1750  0.72  1.00  1.00 261.0  15.0 285.5  2.0    0  0.00   88.  1012.    2 NAD-SFC NoSubs
10 11  2 306  7   -3.4  0.094 -9.000 -9.000 -999.   69.     21.7  0.1750  0.72  0.71  1.00 256.0  15.0 285.2  2.0    0  0.00   89.  1012.    2 NAD-SFC NoSubs
10 11  2 306  8   12.7  0.121  0.274  0.013   59.  101.    -12.7  0.1750  0.72  0.36  1.00 251.0  15.0 285.6  2.0    0  0.00   88.  1012.    2 NAD-SFC NoSubs
10 11  2 306  9   61.6  0.151  0.679  0.013  183.  141.     -5.1  0.2160  0.72  0.25  1.00 286.0  15.0 288.0  2.0    0  0.00   78.  1012.    2 NAD-SFC NoSubs
10 11  2 306 10  100.5  0.160  0.973  0.014  331.  154.     -3.7  0.2160  0.72  0.22  1.00 298.0  15.0 289.8  2.0    0  0.00   70.  1011.    2 NAD-SFC NoSubs
10 11  2 306 11  126.0  0.108  1.153  0.015  439.   86.     -1.0  0.2160  0.72  0.20  0.50 296.0  15.0 291.8  2.0    0  0.00   62.  1011.    2 NAD-SFC NoSubs
10 11  2 306 12  136.9  0.115  1.256  0.014  521.   94.     -1.0  0.2720  0.72  0.20  0.50 323.0  15.0 293.8  2.0    0  0.00   52.  1009.    2 NAD-SFC NoSubs
10 11  2 306 13  132.9  0.178  1.296  0.013  590.  180.     -3.8  0.2930  0.72  0.20  1.00 339.0  15.0 295.0  2.0    0  0.00   48.  1009.    2 NAD-SFC NoSubs
10 11  2 306 14  113.8  0.225  1.267  0.012  644.  257.     -9.0  0.2930  0.72  0.21  1.50 352.0  15.0 295.8  2.0    0  0.00   46.  1008.    2 NAD-SFC NoSubs
10 11  2 306 15   80.5 -9.000 -9.000 -9.000  679. -999. -99999.0  0.2235  0.72  0.23  0.00   0.0  15.0 296.1  2.0    0  0.00   46.  1007.    2 NAD-SFC NoSubs
10 11  2 306 16   35.1  0.255  0.879  0.011  694.  308.    -42.2  0.2940  0.72  0.31  2.10  10.0  15.0 296.0  2.0    0  0.00   50.  1007.    2 NAD-SFC NoSubs
10 11  2 306 17  -13.1  0.204 -9.000 -9.000 -999.  222.     58.0  0.2940  0.72  0.53  2.10  22.0  15.0 295.4  2.0    0  0.00   54.  1007.    2 NAD-SFC NoSubs
10 11  2 306 18  -25.9  0.252 -9.000 -9.000 -999.  303.     55.5  0.2940  0.72  1.00  2.60  22.0  15.0 294.2  2.0    0  0.00   57.  1008.    2 NAD-SFC NoSubs
10 11  2 306 19   -7.7  0.133 -9.000 -9.000 -999.  125.     27.8  0.2470  0.72  1.00  1.50  31.0  15.0 293.2  2.0    0  0.00   61.  1008.    2 NAD-SFC NoSubs
10 11  2 306 20   -1.7  0.084 -9.000 -9.000 -999.   59.     32.0  0.2940  0.72  1.00  0.50  19.0  15.0 292.2  2.0    0  0.00   65.  1008.    2 NAD-SFC NoSubs
10 11  2 306 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 291.2  2.0    0  0.00   70.  1008.    2 NAD-SFC NoSubs
10 11  2 306 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 290.4  2.0    0  0.00   74.  1008.    2 NAD-SFC NoSubs
10 11  2 306 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 289.8  2.0    0  0.00   77.  1008.    2 NAD-SFC NoSubs
10 11  2 306 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 289.2  2.0    0  0.00   79.  1008.    2 NAD-SFC NoSubs
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10 11   3 307   1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00    0.0  15.0 288.9  2.0    0  0.00   79. 1008.     2 NAD-SFC NoSubs
10 11   3 307   2   -1.6  0.084 -9.000 -9.000 -999.   58.     32.0 0.2720  0.72  1.00  0.50  328.0  15.0 288.6  2.0    0  0.00   79. 1008.     2 NAD-SFC NoSubs
10 11   3 307   3   -4.1  0.102 -9.000 -9.000 -999.   79.     23.6 0.2930  0.72  1.00  1.00  338.0  15.0 288.2  2.0    0  0.00   79. 1008.     2 NAD-SFC NoSubs
10 11   3 307   4   -8.4  0.140 -9.000 -9.000 -999.  125.     29.3 0.2930  0.72  1.00  1.50  346.0  15.0 287.8  2.0    0  0.00   81. 1008.     2 NAD-SFC NoSubs
10 11   3 307   5   -8.4  0.140 -9.000 -9.000 -999.  126.     29.3 0.2940  0.72  1.00  1.50    2.0  15.0 287.4  2.0    0  0.00   83. 1008.     2 NAD-SFC NoSubs
10 11   3 307   6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00    0.0  15.0 287.1  2.0    0  0.00   84. 1008.     2 NAD-SFC NoSubs
10 11   3 307   7   -1.7  0.084 -9.000 -9.000 -999.   59.     32.1 0.2930  0.72  0.72  0.50  348.0  15.0 286.9  2.0    0  0.00   84. 1008.     2 NAD-SFC NoSubs
10 11   3 307   8   12.0  0.085  0.245  0.019   44.   60.     -4.6 0.2930  0.72  0.37  0.50  350.0  15.0 286.9  2.0    0  0.00   83. 1008.     2 NAD-SFC NoSubs
10 11   3 307   9   61.1  0.262  0.610  0.010  133.  322.    -26.5 0.2720  0.72  0.25  2.10  310.0  15.0 290.1  2.0    0  0.00   64. 1008.     2 NAD-SFC NoSubs
10 11   3 307  10  100.2  0.275  0.869  0.010  235.  346.    -18.7 0.2720  0.72  0.22  2.10  304.0  15.0 292.2  2.0    0  0.00   57. 1007.     2 NAD-SFC NoSubs
10 11   3 307  11  125.8  0.281  1.054  0.010  334.  358.    -15.9 0.2720  0.72  0.21  2.10  321.0  15.0 294.2  2.0    0  0.00   52. 1007.     2 NAD-SFC NoSubs
10 11   3 307  12  136.6  0.288  1.187  0.009  439.  371.    -15.7 0.2930  0.72  0.20  2.10  330.0  15.0 295.8  2.0    0  0.00   49. 1006.     2 NAD-SFC NoSubs
10 11   3 307  13  132.6  0.287  1.272  0.008  557.  370.    -16.1 0.2930  0.72  0.20  2.10  343.0  15.0 297.1  2.0    0  0.00   47. 1006.     2 NAD-SFC NoSubs
10 11   3 307  14  113.8  0.329  1.267  0.008  641.  454.    -28.1 0.2930  0.72  0.21  2.60  355.0  15.0 298.1  2.0    0  0.00   45. 1005.     2 NAD-SFC NoSubs
10 11   3 307  15   80.6  0.320  1.165  0.008  704.  434.    -36.3 0.2930  0.72  0.24  2.60  351.0  15.0 298.6  2.0    0  0.00   44. 1004.     2 NAD-SFC NoSubs
10 11   3 307  16   35.2  0.300  0.895  0.008  730.  395.    -68.9 0.2940  0.72  0.31  2.60    2.0  15.0 298.4  2.0    0  0.00   50. 1004.     2 NAD-SFC NoSubs
10 11   3 307  17  -16.4  0.255 -9.000 -9.000 -999.  310.     90.6 0.2940  0.72  0.54  2.60    9.0  15.0 297.6  2.0    0  0.00   53. 1004.     2 NAD-SFC NoSubs
10 11   3 307  18  -16.5  0.200 -9.000 -9.000 -999.  216.     43.5 0.2940  0.72  1.00  2.10   14.0  15.0 296.2  2.0    0  0.00   57. 1004.     2 NAD-SFC NoSubs
10 11   3 307  19   -4.0  0.102 -9.000 -9.000 -999.   83.     23.7 0.2940  0.72  1.00  1.00   24.0  15.0 295.1  2.0    0  0.00   61. 1004.     2 NAD-SFC NoSubs
10 11   3 307  20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00    0.0  15.0 293.8  2.0    0  0.00   67. 1004.     2 NAD-SFC NoSubs
10 11   3 307  21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00    0.0  15.0 292.8  2.0    0  0.00   72. 1004.     2 NAD-SFC NoSubs
10 11   3 307  22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00    0.0  15.0 291.9  2.0    0  0.00   75. 1005.     2 NAD-SFC NoSubs
10 11   3 307  23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00    0.0  15.0 291.2  2.0    0  0.00   77. 1005.     2 NAD-SFC NoSubs
10 11   3 307  24   -1.7  0.084 -9.000 -9.000 -999.   59.     32.0 0.2930  0.72  1.00  0.50  354.0  15.0 290.8  2.0    0  0.00   78. 1005.     2 NAD-SFC NoSubs
10 11   4 308   1   -1.7  0.084 -9.000 -9.000 -999.   59.     32.0 0.2930  0.72  1.00  0.50  339.0  15.0 290.4  2.0    0  0.00   79. 1004.     2 NAD-SFC NoSubs
10 11   4 308   2   -4.0  0.102 -9.000 -9.000 -999.   78.     23.6 0.2930  0.72  1.00  1.00  333.0  15.0 290.0  2.0    0  0.00   80. 1004.     2 NAD-SFC NoSubs
10 11   4 308   3   -3.9  0.101 -9.000 -9.000 -999.   77.     23.3 0.2720  0.72  1.00  1.00  318.0  15.0 289.6  2.0    0  0.00   81. 1004.     2 NAD-SFC NoSubs
10 11   4 308   4   -3.9  0.101 -9.000 -9.000 -999.   77.     23.3 0.2720  0.72  1.00  1.00  302.0  15.0 289.2  2.0    0  0.00   81. 1004.     2 NAD-SFC NoSubs
10 11   4 308   5   -3.9  0.101 -9.000 -9.000 -999.   77.     23.3 0.2720  0.72  1.00  1.00  300.0  15.0 289.1  2.0    0  0.00   79. 1004.     2 NAD-SFC NoSubs
10 11   4 308   6   -1.6  0.084 -9.000 -9.000 -999.   58.     32.0 0.2720  0.72  1.00  0.50  302.0  15.0 288.8  2.0    0  0.00   78. 1004.     2 NAD-SFC NoSubs
10 11   4 308   7   -1.5  0.081 -9.000 -9.000 -999.   55.     31.5 0.2160  0.72  0.73  0.50  295.0  15.0 288.5  2.0    0  0.00   77. 1004.     2 NAD-SFC NoSubs
10 11   4 308   8   11.5  0.076  0.242  0.018   44.   50.     -3.4 0.1750  0.72  0.37  0.50  260.0  15.0 288.5  2.0    0  0.00   75. 1004.     2 NAD-SFC NoSubs
10 11   4 308   9   60.3  0.207  0.598  0.010  127.  225.    -13.1 0.2720  0.72  0.26  1.50  312.0  15.0 291.0  2.0    0  0.00   58. 1004.     2 NAD-SFC NoSubs
10 11   4 308  10   99.2  0.208  0.864  0.010  233.  228.     -8.1 0.2160  0.72  0.22  1.50  296.0  15.0 292.8  2.0    0  0.00   52. 1004.     2 NAD-SFC NoSubs
10 11   4 308  11  124.8  0.224  1.075  0.008  356.  255.     -8.1 0.2720  0.72  0.21  1.50  305.0  15.0 294.8  2.0    0  0.00   49. 1003.     2 NAD-SFC NoSubs
10 11   4 308  12  135.8  0.175  1.235  0.007  497.  177.     -3.6 0.2720  0.72  0.20  1.00  306.0  15.0 296.5  2.0    0  0.00   45. 1003.     2 NAD-SFC NoSubs
10 11   4 308  13  131.7  0.115  1.317  0.007  620.   94.     -1.0 0.2720  0.72  0.20  0.50  322.0  15.0 297.8  2.0    0  0.00   44. 1002.     2 NAD-SFC NoSubs
10 11   4 308  14  113.0  0.114  1.316  0.007  722.   93.     -1.2 0.2930  0.72  0.21  0.50  334.0  15.0 298.9  2.0    0  0.00   41. 1002.     2 NAD-SFC NoSubs
10 11   4 308  15   79.9  0.167  1.210  0.007  792.  163.     -5.2 0.2930  0.72  0.24  1.00  350.0  15.0 299.5  2.0    0  0.00   40. 1001.     2 NAD-SFC NoSubs
10 11   4 308  16   34.7  0.199  0.927  0.007  820.  213.    -20.3 0.2940  0.72  0.31  1.50   14.0  15.0 299.5  2.0    0  0.00   43. 1001.     2 NAD-SFC NoSubs
10 11   4 308  17   -6.6  0.142 -9.000 -9.000 -999.  129.     38.4 0.2940  0.72  0.54  1.50   25.0  15.0 298.6  2.0    0  0.00   48. 1001.     2 NAD-SFC NoSubs
10 11   4 308  18   -8.2  0.140 -9.000 -9.000 -999.  126.     29.8 0.2940  0.72  1.00  1.50   25.0  15.0 297.2  2.0    0  0.00   54. 1001.     2 NAD-SFC NoSubs
10 11   4 308  19   -1.6  0.084 -9.000 -9.000 -999.   59.     31.9 0.2930  0.72  1.00  0.50  346.0  15.0 295.8  2.0    0  0.00   60. 1001.     2 NAD-SFC NoSubs
10 11   4 308  20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00    0.0  15.0 294.4  2.0    0  0.00   66. 1002.     2 NAD-SFC NoSubs
10 11   4 308  21   -3.6  0.097 -9.000 -9.000 -999.   72.     22.4 0.2160  0.72  1.00  1.00  278.0  15.0 293.6  2.0    0  0.00   70. 1002.     2 NAD-SFC NoSubs
10 11   4 308  22  -14.3  0.183 -9.000 -9.000 -999.  188.     38.3 0.2160  0.72  1.00  2.10  287.0  15.0 293.1  2.0    0  0.00   70. 1002.     2 NAD-SFC NoSubs
10 11   4 308  23  -31.3  0.296 -9.000 -9.000 -999.  387.     74.3 0.2720  0.72  1.00  3.10  307.0  15.0 292.6  2.0    0  0.00   69. 1002.     2 NAD-SFC NoSubs
10 11   4 308  24  -31.4  0.296 -9.000 -9.000 -999.  387.     74.2 0.2720  0.72  1.00  3.10  328.0  15.0 292.0  2.0    0  0.00   70. 1002.     2 NAD-SFC NoSubs
10 11   5 309   1  -25.8  0.251 -9.000 -9.000 -999.  303.     55.1 0.2930  0.72  1.00  2.60  349.0  15.0 291.2  2.0    0  0.00   71. 1003.     2 NAD-SFC NoSubs
10 11   5 309   2  -25.8  0.251 -9.000 -9.000 -999.  303.     55.1 0.2930  0.72  1.00  2.60  350.0  15.0 290.8  2.0    0  0.00   72. 1003.     2 NAD-SFC NoSubs
10 11   5 309   3  -25.9  0.251 -9.000 -9.000 -999.  303.     55.0 0.2930  0.72  1.00  2.60  349.0  15.0 290.2  2.0    0  0.00   73. 1003.     2 NAD-SFC NoSubs
10 11   5 309   4  -16.6  0.200 -9.000 -9.000 -999.  215.     42.9 0.2930  0.72  1.00  2.10  340.0  15.0 289.9  2.0    0  0.00   73. 1002.     2 NAD-SFC NoSubs
10 11   5 309   5   -8.0  0.137 -9.000 -9.000 -999.  122.     28.6 0.2720  0.72  1.00  1.50  327.0  15.0 289.4  2.0    0  0.00   74. 1003.     2 NAD-SFC NoSubs
10 11   5 309   6  -16.0  0.195 -9.000 -9.000 -999.  207.     41.5 0.2720  0.72  1.00  2.10  311.0  15.0 288.8  2.0    0  0.00   76. 1003.     2 NAD-SFC NoSubs
10 11   5 309   7  -16.0  0.195 -9.000 -9.000 -999.  207.     41.6 0.2720  0.72  0.74  2.10  309.0  15.0 288.2  2.0    0  0.00   78. 1003.     2 NAD-SFC NoSubs
10 11   5 309   8   10.4  0.176  0.240  0.009   47.  177.    -46.9 0.2720  0.72  0.37  1.50  317.0  15.0 288.2  2.0    0  0.00   79. 1004.     2 NAD-SFC NoSubs
10 11   5 309   9   58.9  0.261  0.627  0.008  150.  321.    -27.1 0.2720  0.72  0.26  2.10  325.0  15.0 290.4  2.0    0  0.00   73. 1004.     2 NAD-SFC NoSubs
10 11   5 309  10   97.7  0.218  0.922  0.008  288.  245.     -9.5 0.2720  0.72  0.22  1.50  310.0  15.0 292.0  2.0    0  0.00   69. 1004.     2 NAD-SFC NoSubs
10 11   5 309  11  123.4  0.173  1.143  0.007  433.  173.     -3.8 0.2720  0.72  0.21  1.00  312.0  15.0 294.2  2.0    0  0.00   60. 1004.     2 NAD-SFC NoSubs
10 11   5 309  12  134.4  0.115  1.305  0.007  592.   95.     -1.0 0.2720  0.72  0.20  0.50  305.0  15.0 296.1  2.0    0  0.00   52. 1003.     2 NAD-SFC NoSubs
10 11   5 309  13  130.6  0.115  1.377  0.006  716.   93.     -1.0 0.2720  0.72  0.20  0.50  309.0  15.0 297.8  2.0    0  0.00   45. 1002.     2 NAD-SFC NoSubs
10 11   5 309  14  111.7  0.171  1.361  0.006  808.  170.     -4.0 0.2720  0.72  0.21  1.00  326.0  15.0 298.6  2.0    0  0.00   41. 1002.     2 NAD-SFC NoSubs
10 11   5 309  15   78.6  0.217  1.241  0.006  868.  242.    -11.5 0.2930  0.72  0.24  1.50  350.0  15.0 299.1  2.0    0  0.00   40. 1001.     2 NAD-SFC NoSubs
10 11   5 309  16   33.4 -9.000 -9.000 -9.000  891. -999. -99999.0 0.2235  0.72  0.31  0.00    0.0  15.0 299.0  2.0    0  0.00   44. 1001.     2 NAD-SFC NoSubs
10 11   5 309  17  -13.6  0.203 -9.000 -9.000 -999.  220.     55.3 0.2940  0.72  0.55  2.10    8.0  15.0 298.2  2.0    0  0.00   47. 1001.     2 NAD-SFC NoSubs
10 11   5 309  18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00    0.0  15.0 297.1  2.0    0  0.00   51. 1001.     2 NAD-SFC NoSubs
10 11   5 309  19  -31.0  0.297 -9.000 -9.000 -999.  388.     75.2 0.2720  0.72  1.00  3.10  316.0  15.0 295.8  2.0    0  0.00   55. 1002.     2 NAD-SFC NoSubs
10 11   5 309  20  -47.1  0.448 -9.000 -9.000 -999.  718.    169.9 0.2720  0.72  1.00  4.60  319.0  15.0 293.4  2.0    0  0.00   65. 1002.     2 NAD-SFC NoSubs
10 11   5 309  21  -42.1  0.397 -9.000 -9.000 -999.  602.    132.6 0.2720  0.72  1.00  4.10  306.0  15.0 291.1  2.0    0  0.00   75. 1002.     2 NAD-SFC NoSubs
10 11   5 309  22  -37.0  0.347 -9.000 -9.000 -999.  492.    100.8 0.2720  0.72  1.00  3.60  317.0  15.0 290.1  2.0    0  0.00   79. 1003.     2 NAD-SFC NoSubs
10 11   5 309  23  -37.1  0.347 -9.000 -9.000 -999.  490.    100.5 0.2720  0.72  1.00  3.60  328.0  15.0 289.4  2.0    0  0.00   81. 1003.     2 NAD-SFC NoSubs
10 11   5 309  24  -43.5  0.406 -9.000 -9.000 -999.  620.    137.3 0.2930  0.72  1.00  4.10  359.0  15.0 288.8  2.0    0  0.00   83. 1003.     2 NAD-SFC NoSubs
10 11   6 310   1  -43.6  0.406 -9.000 -9.000 -999.  621.    137.3 0.2940  0.72  1.00  4.10    2.0  15.0 288.1  2.0    0  0.00   85. 1003.     2 NAD-SFC NoSubs
10 11   6 310   2  -43.7  0.406 -9.000 -9.000 -999.  621.    137.0 0.2940  0.72  1.00  4.10    1.0  15.0 287.6  2.0    0  0.00   86. 1003.     2 NAD-SFC NoSubs
10 11   6 310   3  -43.7  0.406 -9.000 -9.000 -999.  620.    136.5 0.2930  0.72  1.00  4.10  360.0  15.0 287.1  2.0    0  0.00   88. 1003.     2 NAD-SFC NoSubs
10 11   6 310   4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  1.00  0.00    0.0  15.0 286.8  2.0    0  0.00   89. 1004.     2 NAD-SFC NoSubs
10 11   6 310   5  -43.9  0.406 -9.000 -9.000 -999.  621.    136.5 0.2940  0.72  1.00  4.10   15.0  15.0 286.4  2.0    0  0.00   90. 1004.     2 NAD-SFC NoSubs
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10 11   6 310   6   -43.9  0.406 -9.000 -9.000 -999.   621.    136.3  0.2940  0.72  1.00   4.10   12.0  15.0 286.1   2.0    0   0.00   91.  1004.     2 NAD-SFC NoSubs
10 11   6 310   7   -44.0  0.406 -9.000 -9.000 -999.   621.    136.4  0.2940  0.72  0.75   4.10    7.0  15.0 285.9   2.0    0   0.00   92.  1005.     2 NAD-SFC NoSubs
10 11   6 310   8     8.9 -9.000 -9.000 -9.000   64.  -999. -99999.0  0.2235  0.72  0.38   0.00    0.0  15.0 286.4   2.0    0   0.00   90.  1005.     2 NAD-SFC NoSubs
10 11   6 310   9    57.0  0.357  0.669  0.008  188.   511.    -71.4  0.2930  0.72  0.26   3.10  348.0  15.0 288.0   2.0    0   0.00   81.  1006.     2 NAD-SFC NoSubs
10 11   6 310  10    95.7  0.279  0.936  0.010  308.   356.    -20.3  0.2940  0.72  0.22   2.10    4.0  15.0 289.6   2.0    0   0.00   75.  1006.     2 NAD-SFC NoSubs
10 11   6 310  11   121.1  0.285  1.121  0.009  418.   365.    -17.2  0.2930  0.72  0.21   2.10  348.0  15.0 291.4   2.0    0   0.00   66.  1006.     2 NAD-SFC NoSubs
10 11   6 310  12   131.8  0.334  1.244  0.008  524.   463.    -25.3  0.2930  0.72  0.20   2.60  353.0  15.0 292.8   2.0    0   0.00   61.  1005.     2 NAD-SFC NoSubs
10 11   6 310  13   127.7  0.333  1.295  0.007  610.   461.    -25.9  0.2930  0.72  0.20   2.60  347.0  15.0 293.9   2.0    0   0.00   56.  1005.     2 NAD-SFC NoSubs
10 11   6 310  14   108.7  0.328  1.276  0.006  685.   451.    -29.1  0.2930  0.72  0.21   2.60  337.0  15.0 294.8   2.0    0   0.00   51.  1004.     2 NAD-SFC NoSubs
10 11   6 310  15    76.7  0.410  1.171  0.006  749.   630.    -80.5  0.2930  0.72  0.24   3.60  345.0  15.0 295.1   2.0    0   0.00   49.  1004.     3 NAD-SFC NoSubs
10 11   6 310  16    32.4  0.391  0.889  0.005  776.   588.   -165.8  0.2930  0.72  0.32   3.60  334.0  15.0 295.8   2.0    0   0.00   54.  1003.     3 NAD-SFC NoSubs
10 11   6 310  17   -28.2  0.400 -9.000 -9.000 -999.   608.    203.3  0.2720  0.72  0.56   4.10  329.0  15.0 294.6   2.0    0   0.00   59.  1004.     3 NAD-SFC NoSubs
10 11   6 310  18   -40.9  0.397 -9.000 -9.000 -999.   601.    137.3  0.2720  0.72  1.00   4.10  306.0  15.0 293.4   2.0    0   0.00   64.  1005.     3 NAD-SFC NoSubs
10 11   6 310  19   -42.0  0.420 -9.000 -9.000 -999.   654.    158.4  0.2160  0.72  1.00   4.60  285.0  15.0 291.2   2.0    0   0.00   75.  1006.     4 NAD-SFC NoSubs
10 11   6 310  20   -31.1  0.308 -9.000 -9.000 -999.   419.     84.9  0.1750  0.72  1.00   3.60  267.0  15.0 289.6   2.0    0   0.00   85.  1007.     4 NAD-SFC NoSubs
10 11   6 310  21   -32.9  0.326 -9.000 -9.000 -999.   446.     94.2  0.2160  0.72  1.00   3.60  290.0  15.0 288.5   2.0    0   0.00   88.  1007.     4 NAD-SFC NoSubs
10 11   6 310  22   -28.7  0.297 -9.000 -9.000 -999.   389.     82.3  0.2720  0.72  1.00   3.10  305.0  15.0 287.8   2.0    0   0.00   89.  1008.     5 NAD-SFC NoSubs
10 11   6 310  23   -13.8  0.250 -9.000 -9.000 -999.   302.    102.0  0.2720  0.72  1.00   2.60  311.0  15.0 287.2   2.0    0   0.00   90.  1009.    10 NAD-SFC NoSubs
10 11   6 310  24    -5.9  0.139 -9.000 -9.000 -999.   131.     41.4  0.2720  0.72  1.00   1.50  323.0  15.0 286.8   2.0    0   0.00   91.  1009.    10 NAD-SFC NoSubs
10 11   7 311   1    -2.7  0.093 -9.000 -9.000 -999.    69.     27.5  0.2930  0.72  1.00   1.00  360.0  15.0 286.5   2.0    0   0.00   91.  1009.    10 NAD-SFC NoSubs
10 11   7 311   2    -0.9  0.065 -9.000 -9.000 -999.    40.     26.4  0.2930  0.72  1.00   0.50  357.0  15.0 286.5   2.0    0   0.00   90.  1009.    10 NAD-SFC NoSubs
10 11   7 311   3  -999.0 -9.000 -9.000 -9.000 -999.  -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0 286.4   2.0    0   0.00   89.  1009.    10 NAD-SFC NoSubs
10 11   7 311   4    -2.7  0.088 -9.000 -9.000 -999.    63.     22.4  0.1970  0.72  1.00   1.00  120.0  15.0 286.4   2.0    0   0.00   88.  1009.     8 NAD-SFC NoSubs
10 11   7 311   5    -3.1  0.091 -9.000 -9.000 -999.    66.     22.0  0.1970  0.72  1.00   1.00  129.0  15.0 286.4   2.0    0   0.00   87.  1009.     6 NAD-SFC NoSubs
10 11   7 311   6    -5.7  0.123 -9.000 -9.000 -999.   104.     29.7  0.1810  0.72  1.00   1.50  151.0  15.0 286.4   2.0    0   0.00   87.  1009.     8 NAD-SFC NoSubs
10 11   7 311   7    -4.9  0.125 -9.000 -9.000 -999.   106.     35.4  0.1810  0.72  0.77   1.50  159.0  15.0 286.5   2.0    0   0.00   86.  1009.    10 NAD-SFC NoSubs
10 11   7 311   8    -1.1  0.132 -9.000 -9.000 -999.   115.    184.7  0.1810  0.72  0.38   1.50  167.0  15.0 286.6   2.0    0   0.00   87.  1009.    10 NAD-SFC NoSubs
10 11   7 311   9    47.6  0.235  0.707  0.005  267.   274.    -24.6  0.1810  0.72  0.26   2.10  175.0  15.0 286.8   2.0    0   0.00   88.  1009.     7 NAD-SFC NoSubs
10 11   7 311  10    91.9  0.199  1.081  0.005  495.   213.     -7.7  0.1810  0.72  0.22   1.50  169.0  15.0 287.8   2.0    0   0.00   82.  1009.     5 NAD-SFC NoSubs
10 11   7 311  11   119.6  0.104  1.324  0.006  699.    84.     -1.0  0.1810  0.72  0.21   0.50  176.0  15.0 288.8   2.0    0   0.00   77.  1009.     3 NAD-SFC NoSubs
10 11   7 311  12   130.1 -9.000 -9.000 -9.000  827.  -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0 289.8   2.0    0   0.00   73.  1008.     3 NAD-SFC NoSubs
10 11   7 311  13   125.1  0.224  1.481  0.007  934.   255.     -8.1  0.2720  0.72  0.20   1.50  300.0  15.0 290.2   2.0    0   0.00   69.  1007.     2 NAD-SFC NoSubs
10 11   7 311  14   106.0  0.277  1.438  0.008 1009.   349.    -17.9  0.2720  0.72  0.21   2.10  309.0  15.0 290.6   2.0    0   0.00   66.  1007.     2 NAD-SFC NoSubs
10 11   7 311  15    73.8  0.318  1.294  0.008 1053.   430.    -38.9  0.2930  0.72  0.24   2.60  340.0  15.0 290.5   2.0    0   0.00   68.  1006.     3 NAD-SFC NoSubs
10 11   7 311  16    29.2 -9.000 -9.000 -9.000 1070.  -999. -99999.0  0.2235  0.72  0.32   0.00    0.0  15.0 290.2   2.0    0   0.00   69.  1006.     3 NAD-SFC NoSubs
10 11   7 311  17   -18.3  0.255 -9.000 -9.000 -999.   308.     80.9  0.2940  0.72  0.56   2.60   12.0  15.0 289.9   2.0    0   0.00   69.  1006.     4 NAD-SFC NoSubs
10 11   7 311  18   -20.9  0.253 -9.000 -9.000 -999.   306.     69.8  0.2930  0.72  1.00   2.60  335.0  15.0 289.4   2.0    0   0.00   71.  1006.     7 NAD-SFC NoSubs
10 11   7 311  19   -16.5  0.301 -9.000 -9.000 -999.   396.    147.9  0.2720  0.72  1.00   3.10  324.0  15.0 288.5   2.0    0   0.00   77.  1007.    10 NAD-SFC NoSubs
10 11   7 311  20    -2.7  0.093 -9.000 -9.000 -999.   128.     27.5  0.2930  0.72  1.00   1.00  351.0  15.0 287.8   2.0    0   0.51   85.  1007.    10 NAD-SFC NoSubs
10 11   7 311  21    -0.8  0.061 -9.000 -9.000 -999.    39.     25.5  0.1970  0.72  1.00   0.50  137.0  15.0 287.4   2.0    0   0.25   88.  1007.    10 NAD-SFC NoSubs
10 11   7 311  22    -0.8  0.061 -9.000 -9.000 -999.    36.     25.4  0.1900  0.72  1.00   0.50  207.0  15.0 287.2   2.0    0   0.51   90.  1007.    10 NAD-SFC NoSubs
10 11   7 311  23    -5.8  0.126 -9.000 -9.000 -999.   107.     30.5  0.1950  0.72  1.00   1.50  237.0  15.0 287.2   2.0    0   0.25   91.  1007.     8 NAD-SFC NoSubs
10 11   7 311  24   -21.1  0.280 -9.000 -9.000 -999.   356.     93.9  0.2160  0.72  1.00   3.10  270.0  15.0 286.8   2.0    0   0.00   93.  1007.     8 NAD-SFC NoSubs
10 11   8 312   1   -38.3  0.421 -9.000 -9.000 -999.   656.    175.1  0.2160  0.72  1.00   4.60  286.0  15.0 285.8   2.0    0   0.00   93.  1008.     6 NAD-SFC NoSubs
10 11   8 312   2   -43.1  0.420 -9.000 -9.000 -999.   654.    154.8  0.2160  0.72  1.00   4.60  299.0  15.0 284.8   2.0    0   0.00   92.  1008.     4 NAD-SFC NoSubs
10 11   8 312   3   -38.3  0.373 -9.000 -9.000 -999.   548.    121.5  0.2160  0.72  1.00   4.10  297.0  15.0 284.0   2.0    0   0.00   92.  1008.     4 NAD-SFC NoSubs
10 11   8 312   4   -40.9  0.397 -9.000 -9.000 -999.   601.    138.0  0.2720  0.72  1.00   4.10  308.0  15.0 283.9   2.0    0   0.00   93.  1009.     4 NAD-SFC NoSubs
10 11   8 312   5   -46.1  0.448 -9.000 -9.000 -999.   719.    175.4  0.2720  0.72  1.00   4.60  309.0  15.0 284.1   2.0    0   0.00   92.  1009.     4 NAD-SFC NoSubs
10 11   8 312   6   -47.8  0.447 -9.000 -9.000 -999.   718.    168.8  0.2720  0.72  1.00   4.60  312.0  15.0 284.2   2.0    0   0.00   92.  1010.     3 NAD-SFC NoSubs
10 11   8 312   7   -44.9  0.420 -9.000 -9.000 -999.   654.    148.5  0.2160  0.72  1.00   4.60  297.0  15.0 284.1   2.0    0   0.00   92.  1010.     3 NAD-SFC NoSubs
10 11   8 312   8     8.0  0.416  0.310  0.005  133.   644.   -809.7  0.2720  0.72  0.39   4.10  303.0  15.0 284.1   2.0    0   0.00   90.  1010.     3 NAD-SFC NoSubs
10 11   8 312   9    54.9  0.590  0.866  0.005  426.  1087.   -336.6  0.2720  0.72  0.26   5.70  318.0  15.0 284.4   2.0    0   0.00   84.  1010.     3 NAD-SFC NoSubs
10 11   8 312  10    93.1  0.659  1.101  0.005  517.  1281.   -276.6  0.2930  0.72  0.22   6.20  334.0  15.0 285.6   2.0    0   0.00   71.  1010.     3 NAD-SFC NoSubs
10 11   8 312  11   116.8  0.664  1.257  0.005  612.  1299.   -225.9  0.2930  0.72  0.21   6.20  337.0  15.0 286.2   2.0    0   0.00   64.  1010.     4 NAD-SFC NoSubs
10 11   8 312  12   123.1  0.666  1.356  0.005  729.  1303.   -215.5  0.2930  0.72  0.20   6.20  338.0  15.0 286.8   2.0    0   0.00   59.  1009.     5 NAD-SFC NoSubs
10 11   8 312  13   119.0  0.665  1.411  0.005  851.  1301.   -222.0  0.2930  0.72  0.21   6.20  339.0  15.0 287.2   2.0    0   0.00   55.  1009.     5 NAD-SFC NoSubs
10 11   8 312  14   104.1  0.661  1.397  0.005  944.  1291.   -250.1  0.2930  0.72  0.21   6.20  337.0  15.0 287.5   2.0    0   0.00   51.  1009.     4 NAD-SFC NoSubs
10 11   8 312  15    71.9  0.654  1.269  0.005 1023.  1269.   -348.9  0.2930  0.72  0.24   6.20  343.0  15.0 287.8   2.0    0   0.00   50.  1008.     4 NAD-SFC NoSubs
10 11   8 312  16    27.5  0.475  0.931  0.005 1057.   819.   -351.8  0.2720  0.72  0.32   4.60  328.0  15.0 287.5   2.0    0   0.00   55.  1008.     3 NAD-SFC NoSubs
10 11   8 312  17   -28.5  0.349 -9.000 -9.000 -999.   509.    133.7  0.2720  0.72  0.57   3.60  318.0  15.0 286.5   2.0    0   0.00   61.  1008.     3 NAD-SFC NoSubs
10 11   8 312  18   -36.8  0.347 -9.000 -9.000 -999.   490.    101.8  0.2720  0.72  1.00   3.60  312.0  15.0 285.4   2.0    0   0.00   65.  1008.     3 NAD-SFC NoSubs
10 11   8 312  19   -31.6  0.296 -9.000 -9.000 -999.   389.     74.2  0.2720  0.72  1.00   3.10  302.0  15.0 284.6   2.0    0   0.00   67.  1008.     3 NAD-SFC NoSubs
10 11   8 312  20   -25.0  0.246 -9.000 -9.000 -999.   294.     53.5  0.2720  0.72  1.00   2.60  302.0  15.0 283.9   2.0    0   0.00   68.  1009.     3 NAD-SFC NoSubs
10 11   8 312  21   -16.1  0.195 -9.000 -9.000 -999.   208.     41.7  0.2720  0.72  1.00   2.10  305.0  15.0 283.2   2.0    0   0.00   70.  1009.     3 NAD-SFC NoSubs
10 11   8 312  22    -7.3  0.129 -9.000 -9.000 -999.   112.     26.4  0.2160  0.72  1.00   1.50  285.0  15.0 282.8   2.0    0   0.00   71.  1009.     3 NAD-SFC NoSubs
10 11   8 312  23    -7.3  0.129 -9.000 -9.000 -999.   111.     26.4  0.2160  0.72  1.00   1.50  273.0  15.0 282.1   2.0    0   0.00   72.  1009.     3 NAD-SFC NoSubs
10 11   8 312  24    -6.7  0.123 -9.000 -9.000 -999.   103.     24.7  0.1750  0.72  1.00   1.50  259.0  15.0 281.5   2.0    0   0.00   74.  1009.     3 NAD-SFC NoSubs
10 11   9 313   1    -6.7  0.123 -9.000 -9.000 -999.   103.     24.7  0.1750  0.72  1.00   1.50  260.0  15.0 281.1   2.0    0   0.00   74.  1009.     3 NAD-SFC NoSubs
10 11   9 313   2    -7.3  0.129 -9.000 -9.000 -999.   111.     26.4  0.2160  0.72  1.00   1.50  272.0  15.0 280.8   2.0    0   0.00   75.  1009.     3 NAD-SFC NoSubs
10 11   9 313   3   -14.7  0.183 -9.000 -9.000 -999.   187.     37.3  0.2160  0.72  1.00   2.10  274.0  15.0 280.2   2.0    0   0.00   77.  1009.     2 NAD-SFC NoSubs
10 11   9 313   4   -14.7  0.183 -9.000 -9.000 -999.   187.     37.3  0.2160  0.72  1.00   2.10  275.0  15.0 279.8   2.0    0   0.00   79.  1009.     2 NAD-SFC NoSubs
10 11   9 313   5   -14.7  0.183 -9.000 -9.000 -999.   187.     37.2  0.2160  0.72  1.00   2.10  271.0  15.0 279.1   2.0    0   0.00   80.  1009.     2 NAD-SFC NoSubs
10 11   9 313   6   -14.7  0.183 -9.000 -9.000 -999.   187.     37.2  0.2160  0.72  1.00   2.10  285.0  15.0 278.6   2.0    0   0.00   81.  1009.     2 NAD-SFC NoSubs
10 11   9 313   7   -21.1  0.218 -9.000 -9.000 -999.   244.     44.1  0.1750  0.72  1.00   2.60  266.0  15.0 278.1   2.0    0   0.00   80.  1010.     2 NAD-SFC NoSubs
10 11   9 313   8     4.2  0.254  0.165  0.006   39.   307.   -351.7  0.2160  0.72  0.39   2.60  281.0  15.0 278.1   2.0    0   0.00   77.  1010.     2 NAD-SFC NoSubs
10 11   9 313   9    51.6  0.304  0.700  0.006  239.   401.    -48.8  0.2720  0.72  0.26   2.60  324.0  15.0 280.1   2.0    0   0.00   61.  1010.     2 NAD-SFC NoSubs
10 11   9 313  10    90.1  0.166  0.985  0.006  383.   175.     -4.6  0.2720  0.72  0.22   1.00  312.0  15.0 281.6   2.0    0   0.00   53.  1010.     2 NAD-SFC NoSubs
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10 11  9 313 11   115.1  0.163  1.215  0.006   562.   158.     -3.4  0.2160  0.72  0.21  1.00  291.0  15.0  282.8  2.0   0  0.00   49.  1010.   2 NAD-SFC NoSubs
10 11  9 313 12   125.6  0.165  1.351  0.006   707.   161.     -3.2  0.2160  0.72  0.20  1.00  298.0  15.0  284.0  2.0   0  0.00   44.  1009.   2 NAD-SFC NoSubs
10 11  9 313 13   121.4  0.173  1.402  0.006   816.   172.     -3.8  0.2720  0.72  0.21  1.00  303.0  15.0  285.1  2.0   0  0.00   40.  1008.   2 NAD-SFC NoSubs
10 11  9 313 14   102.4  0.219  1.367  0.006   898.   247.     -9.3  0.2720  0.72  0.22  1.50  312.0  15.0  285.8  2.0   0  0.00   37.  1008.   2 NAD-SFC NoSubs
10 11  9 313 15    69.3  0.210  1.224  0.007   950.   230.    -11.9  0.2720  0.72  0.24  1.50  322.0  15.0  286.2  2.0   0  0.00   36.  1007.   2 NAD-SFC NoSubs
10 11  9 313 16    24.6  0.192  0.873  0.007   968.   202.    -25.8  0.2930  0.72  0.32  1.50  340.0  15.0  286.2  2.0   0  0.00   37.  1007.   2 NAD-SFC NoSubs
10 11  9 313 17  -999.0 -9.000 -9.000 -9.000  -999.  -999. -99999.0  0.2235  0.72  0.58  0.00    0.0  15.0  285.8  2.0   0  0.00   42.  1007.   2 NAD-SFC NoSubs
10 11  9 313 18  -999.0 -9.000 -9.000 -9.000  -999.  -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  284.8  2.0   0  0.00   46.  1007.   2 NAD-SFC NoSubs
10 11  9 313 19  -999.0 -9.000 -9.000 -9.000  -999.  -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  283.8  2.0   0  0.00   53.  1007.   2 NAD-SFC NoSubs
10 11  9 313 20    -3.5  0.095 -9.000 -9.000  -999.    70.     21.9  0.1810  0.72  1.00  1.00  150.0  15.0  282.8  2.0   0  0.00   58.  1007.   2 NAD-SFC NoSubs
10 11  9 313 21   -14.1  0.178 -9.000 -9.000  -999.   180.     36.2  0.1970  0.72  1.00  2.10  148.0  15.0  281.9  2.0   0  0.00   62.  1008.   2 NAD-SFC NoSubs
10 11  9 313 22   -21.2  0.220 -9.000 -9.000  -999.   247.     45.0  0.1810  0.72  1.00  2.60  160.0  15.0  281.4  2.0   0  0.00   63.  1008.   2 NAD-SFC NoSubs
10 11  9 313 23   -14.1  0.178 -9.000 -9.000  -999.   181.     36.1  0.1970  0.72  1.00  2.10  147.0  15.0  280.9  2.0   0  0.00   64.  1008.   2 NAD-SFC NoSubs
10 11  9 313 24    -7.1  0.126 -9.000 -9.000  -999.   108.     25.3  0.1970  0.72  1.00  1.50  130.0  15.0  280.4  2.0   0  0.00   65.  1007.   2 NAD-SFC NoSubs
10 11 10 314  1    -7.1  0.126 -9.000 -9.000  -999.   108.     25.3  0.1970  0.72  1.00  1.50  122.0  15.0  279.9  2.0   0  0.00   67.  1007.   2 NAD-SFC NoSubs
10 11 10 314  2    -3.7  0.098 -9.000 -9.000  -999.    73.     22.4  0.2130  0.72  1.00  1.00  115.0  15.0  279.4  2.0   0  0.00   69.  1007.   2 NAD-SFC NoSubs
10 11 10 314  3    -1.6  0.082 -9.000 -9.000  -999.    57.     31.8  0.2090  0.72  1.00  0.50   78.0  15.0  278.8  2.0   0  0.00   71.  1007.   2 NAD-SFC NoSubs
10 11 10 314  4  -999.0 -9.000 -9.000 -9.000  -999.  -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  278.8  2.0   0  0.00   72.  1007.   2 NAD-SFC NoSubs
10 11 10 314  5    -1.5  0.082 -9.000 -9.000  -999.    56.     31.7  0.1970  0.72  1.00  0.50  124.0  15.0  279.1  2.0   0  0.00   70.  1007.   2 NAD-SFC NoSubs
10 11 10 314  6    -3.6  0.097 -9.000 -9.000  -999.    72.     22.2  0.1970  0.72  1.00  1.00  126.0  15.0  278.9  2.0   0  0.00   70.  1007.   2 NAD-SFC NoSubs
10 11 10 314  7    -3.6  0.096 -9.000 -9.000  -999.    71.     22.1  0.1970  0.72  1.00  1.00  123.0  15.0  278.5  2.0   0  0.00   71.  1008.   3 NAD-SFC NoSubs
10 11 10 314  8     5.0  0.156  0.140  0.008    20.   147.    -67.9  0.1970  0.72  0.39  1.50  136.0  15.0  278.5  2.0   0  0.00   70.  1008.   3 NAD-SFC NoSubs
10 11 10 314  9    52.0  0.187  0.583  0.008   137.   194.    -11.3  0.1810  0.72  0.27  1.50  163.0  15.0  281.2  2.0   0  0.00   54.  1008.   3 NAD-SFC NoSubs
10 11 10 314 10    89.9 -9.000 -9.000 -9.000   310.  -999. -99999.0  0.2235  0.72  0.22  0.00    0.0  15.0  283.6  2.0   0  0.00   45.  1008.   4 NAD-SFC NoSubs
10 11 10 314 11   114.4 -9.000 -9.000 -9.000   469.  -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  285.5  2.0   0  0.00   38.  1008.   4 NAD-SFC NoSubs
10 11 10 314 12   113.8  0.113  1.234  0.007   594.    91.     -1.1  0.2720  0.72  0.20  0.50  306.0  15.0  286.8  2.0   0  0.00   36.  1008.   6 NAD-SFC NoSubs
10 11 10 314 13   117.1  0.280  1.314  0.007   697.   355.    -16.8  0.2720  0.72  0.21  2.10  326.0  15.0  287.6  2.0   0  0.00   36.  1007.   5 NAD-SFC NoSubs
10 11 10 314 14   102.2  0.372  1.299  0.006   771.   545.    -45.4  0.2930  0.72  0.22  3.10  332.0  15.0  288.2  2.0   0  0.00   40.  1007.   4 NAD-SFC NoSubs
10 11 10 314 15    70.1  0.454  1.169  0.006   818.   734.   -119.9  0.2930  0.72  0.24  4.10  336.0  15.0  288.2  2.0   0  0.00   48.  1007.   4 NAD-SFC NoSubs
10 11 10 314 16    26.8  0.388  0.854  0.006   835.   584.   -195.8  0.2930  0.72  0.33  3.60  340.0  15.0  288.0  2.0   0  0.00   62.  1007.   4 NAD-SFC NoSubs
10 11 10 314 17   -32.7  0.408 -9.000 -9.000  -999.   625.    186.5  0.2930  0.72  0.58  4.10  345.0  15.0  286.8  2.0   0  0.00   75.  1007.   4 NAD-SFC NoSubs
10 11 10 314 18   -43.2  0.406 -9.000 -9.000  -999.   620.    139.0  0.2930  0.72  1.00  4.10  331.0  15.0  284.8  2.0   0  0.00   88.  1008.   3 NAD-SFC NoSubs
10 11 10 314 19   -37.8  0.354 -9.000 -9.000  -999.   508.    105.7  0.2930  0.72  1.00  3.60  334.0  15.0  283.8  2.0   0  0.00   93.  1008.   3 NAD-SFC NoSubs
10 11 10 314 20   -25.5  0.252 -9.000 -9.000  -999.   309.     56.2  0.2930  0.72  1.00  2.60  338.0  15.0  283.2  2.0   0  0.00   94.  1009.   4 NAD-SFC NoSubs
10 11 10 314 21    -8.2  0.140 -9.000 -9.000  -999.   132.     30.0  0.2930  0.72  1.00  1.50  336.0  15.0  282.9  2.0   0  0.00   96.  1010.   4 NAD-SFC NoSubs
10 11 10 314 22    -3.6  0.097 -9.000 -9.000  -999.    73.     22.4  0.2160  0.72  1.00  1.00  286.0  15.0  282.6  2.0   0  0.00   98.  1010.   3 NAD-SFC NoSubs
10 11 10 314 23    -7.3  0.129 -9.000 -9.000  -999.   111.     26.4  0.2160  0.72  1.00  1.50  284.0  15.0  282.1  2.0   0  0.00  100.  1011.   3 NAD-SFC NoSubs
10 11 10 314 24    -3.6  0.096 -9.000 -9.000  -999.    71.     22.4  0.2160  0.72  1.00  1.00  298.0  15.0  281.5  2.0   0  0.00  100.  1011.   4 NAD-SFC NoSubs
10 11 11 315  1    -4.0  0.101 -9.000 -9.000  -999.    77.     23.3  0.2720  0.72  1.00  1.00  311.0  15.0  281.2  2.0   0  0.00  100.  1011.   3 NAD-SFC NoSubs
10 11 11 315  2    -8.1  0.137 -9.000 -9.000  -999.   122.     28.6  0.2720  0.72  1.00  1.50  302.0  15.0  281.4  2.0   0  0.00  100.  1011.   3 NAD-SFC NoSubs
10 11 11 315  3   -14.5  0.183 -9.000 -9.000  -999.   188.     38.0  0.2160  0.72  1.00  2.10  291.0  15.0  281.6  2.0   0  0.00  100.  1011.   3 NAD-SFC NoSubs
10 11 11 315  4   -30.8  0.278 -9.000 -9.000  -999.   351.     62.7  0.2160  0.72  1.00  3.10  291.0  15.0  281.4  2.0   0  0.00  100.  1012.   2 NAD-SFC NoSubs
10 11 11 315  5   -36.1  0.325 -9.000 -9.000  -999.   444.     85.7  0.2160  0.72  1.00  3.60  278.0  15.0  280.9  2.0   0  0.00   99.  1012.   2 NAD-SFC NoSubs
10 11 11 315  6   -30.9  0.278 -9.000 -9.000  -999.   352.     62.5  0.2160  0.72  1.00  3.10  271.0  15.0  280.5  2.0   0  0.00   95.  1013.   2 NAD-SFC NoSubs
10 11 11 315  7   -14.1  0.178 -9.000 -9.000  -999.   184.     35.9  0.1950  0.72  1.00  2.10  237.0  15.0  280.2  2.0   0  0.00   92.  1014.   2 NAD-SFC NoSubs
10 11 11 315  8     2.6  0.197  0.202  0.008   115.   209.   -266.9  0.1750  0.72  0.40  2.10  240.0  15.0  280.2  2.0   0  0.00   85.  1015.   2 NAD-SFC NoSubs
10 11 11 315  9    49.6  0.288  0.706  0.005   257.   371.    -43.5  0.2160  0.72  0.27  2.60  271.0  15.0  281.4  2.0   0  0.00   72.  1016.   2 NAD-SFC NoSubs
10 11 11 315 10    88.1  0.344  0.938  0.005   339.   485.    -42.0  0.2160  0.72  0.22  3.10  272.0  15.0  283.2  2.0   0  0.00   60.  1016.   2 NAD-SFC NoSubs
10 11 11 315 11   113.2  0.394  1.152  0.006   490.   593.    -49.0  0.2160  0.72  0.21  3.60  283.0  15.0  284.8  2.0   0  0.00   52.  1016.   2 NAD-SFC NoSubs
10 11 11 315 12   123.9  0.397  1.336  0.007   698.   600.    -45.6  0.2160  0.72  0.20  3.60  290.0  15.0  286.0  2.0   0  0.00   49.  1016.   2 NAD-SFC NoSubs
10 11 11 315 13   119.7  0.461  1.421  0.010   870.   750.    -73.9  0.2720  0.72  0.21  4.10  306.0  15.0  287.1  2.0   0  0.00   46.  1016.   2 NAD-SFC NoSubs
10 11 11 315 14   100.8  0.456  1.396  0.010   978.   738.    -85.0  0.2720  0.72  0.22  4.10  317.0  15.0  287.8  2.0   0  0.00   45.  1016.   2 NAD-SFC NoSubs
10 11 11 315 15    67.9  0.407  1.233  0.009  1002.   625.    -89.8  0.2930  0.72  0.24  3.60  334.0  15.0  288.0  2.0   0  0.00   46.  1016.   2 NAD-SFC NoSubs
10 11 11 315 16    23.6  0.292  0.871  0.009  1011.   388.    -95.8  0.2930  0.72  0.33  2.60  336.0  15.0  288.8  2.0   0  0.00   46.  1016.   2 NAD-SFC NoSubs
10 11 11 315 17   -15.5  0.201 -9.000 -9.000  -999.   221.     47.6  0.2930  0.72  0.59  2.10  348.0  15.0  288.2  2.0   0  0.00   49.  1017.   2 NAD-SFC NoSubs
10 11 11 315 18  -999.0 -9.000 -9.000 -9.000  -999.  -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  287.1  2.0   0  0.00   53.  1017.   2 NAD-SFC NoSubs
10 11 11 315 19  -999.0 -9.000 -9.000 -9.000  -999.  -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  285.9  2.0   0  0.00   58.  1018.   2 NAD-SFC NoSubs
10 11 11 315 20  -999.0 -9.000 -9.000 -9.000  -999.  -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  284.8  2.0   0  0.00   64.  1018.   2 NAD-SFC NoSubs
10 11 11 315 21    -3.5  0.094 -9.000 -9.000  -999.    69.     21.7  0.1750  0.72  1.00  1.00  268.0  15.0  283.8  2.0   0  0.00   68.  1018.   2 NAD-SFC NoSubs
10 11 11 315 22    -3.5  0.094 -9.000 -9.000  -999.    70.     21.7  0.1750  0.72  1.00  1.00  251.0  15.0  283.0  2.0   0  0.00   71.  1019.   2 NAD-SFC NoSubs
10 11 11 315 23    -3.6  0.096 -9.000 -9.000  -999.    71.     22.1  0.1950  0.72  1.00  1.00  236.0  15.0  282.4  2.0   0  0.00   71.  1019.   2 NAD-SFC NoSubs
10 11 11 315 24    -3.6  0.096 -9.000 -9.000  -999.    71.     22.1  0.1950  0.72  1.00  1.00  236.0  15.0  281.8  2.0   0  0.00   71.  1019.   2 NAD-SFC NoSubs
10 11 12 316  1    -3.5  0.095 -9.000 -9.000  -999.    70.     21.8  0.1750  0.72  1.00  1.00  247.0  15.0  281.2  2.0   0  0.00   70.  1019.   2 NAD-SFC NoSubs
10 11 12 316  2    -7.5  0.129 -9.000 -9.000  -999.   111.     26.1  0.2160  0.72  1.00  1.50  270.0  15.0  280.8  2.0   0  0.00   68.  1019.   2 NAD-SFC NoSubs
10 11 12 316  3    -7.5  0.129 -9.000 -9.000  -999.   111.     26.1  0.2160  0.72  1.00  1.50  277.0  15.0  280.6  2.0   0  0.00   65.  1019.   2 NAD-SFC NoSubs
10 11 12 316  4    -7.5  0.129 -9.000 -9.000  -999.   111.     26.1  0.2160  0.72  1.00  1.50  284.0  15.0  280.4  2.0   0  0.00   62.  1020.   2 NAD-SFC NoSubs
10 11 12 316  5    -7.5  0.129 -9.000 -9.000  -999.   111.     26.0  0.2160  0.72  1.00  1.50  272.0  15.0  280.0  2.0   0  0.00   62.  1020.   2 NAD-SFC NoSubs
10 11 12 316  6    -6.9  0.123 -9.000 -9.000  -999.   103.     24.4  0.1750  0.72  1.00  1.50  257.0  15.0  279.5  2.0   0  0.00   63.  1020.   2 NAD-SFC NoSubs
10 11 12 316  7    -3.6  0.095 -9.000 -9.000  -999.    70.     21.8  0.1750  0.72  1.00  1.00  266.0  15.0  279.1  2.0   0  0.00   64.  1020.   2 NAD-SFC NoSubs
10 11 12 316  8     1.4  0.101  0.087  0.012    17.    77.    -66.4  0.1750  0.72  0.40  1.00  259.0  15.0  278.9  2.0   0  0.00   65.  1021.   2 NAD-SFC NoSubs
10 11 12 316  9    48.3  0.146  0.580  0.011   147.   134.     -5.9  0.2160  0.72  0.27  1.00  299.0  15.0  280.6  2.0   0  0.00   58.  1021.   2 NAD-SFC NoSubs
10 11 12 316 10    86.7 -9.000 -9.000 -9.000   274.  -999. -99999.0  0.2235  0.72  0.23  0.00    0.0  15.0  282.2  2.0   0  0.00   54.  1021.   2 NAD-SFC NoSubs
10 11 12 316 11   112.0 -9.000 -9.000 -9.000   386.  -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  284.2  2.0   0  0.00   48.  1020.   2 NAD-SFC NoSubs
10 11 12 316 12   122.6  0.108  1.202  0.009   515.    85.     -1.0  0.2160  0.72  0.21  0.50  276.0  15.0  285.5  2.0   0  0.00   44.  1019.   2 NAD-SFC NoSubs
10 11 12 316 13   118.5  0.107  1.262  0.009   617.    85.     -1.0  0.2160  0.72  0.21  0.50  278.0  15.0  286.5  2.0   0  0.00   42.  1018.   2 NAD-SFC NoSubs
10 11 12 316 14    99.7  0.105  1.238  0.009   691.    82.     -1.1  0.2160  0.72  0.22  0.50  295.0  15.0  287.4  2.0   0  0.00   40.  1017.   2 NAD-SFC NoSubs
10 11 12 316 15    66.8  0.105  1.107  0.009   736.    81.     -1.6  0.2720  0.72  0.25  0.50  311.0  15.0  287.8  2.0   0  0.00   39.  1016.   2 NAD-SFC NoSubs
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10 11 12 316 16   22.6  0.144  0.777  0.009  751.  131.    -11.9  0.2930  0.72  0.33  1.00  352.0  15.0  287.9  2.0  0  0.00  39.  1015.  2 NAD-SFC NoSubs
10 11 12 316 17   -3.4  0.095 -9.000 -9.000 -999.   71.     23.0  0.2470  0.72  0.59  1.00   41.0  15.0  287.2  2.0  0  0.00  44.  1015.  2 NAD-SFC NoSubs
10 11 12 316 18   -3.7  0.097 -9.000 -9.000 -999.   72.     22.3  0.2090  0.72  1.00  1.00   78.0  15.0  286.1  2.0  0  0.00  50.  1015.  2 NAD-SFC NoSubs
10 11 12 316 19   -1.6  0.082 -9.000 -9.000 -999.   56.     31.6  0.2130  0.72  1.00  0.50  118.0  15.0  284.9  2.0  0  0.00  56.  1015.  2 NAD-SFC NoSubs
10 11 12 316 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  283.8  2.0  0  0.00  62.  1015.  2 NAD-SFC NoSubs
10 11 12 316 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  282.9  2.0  0  0.00  67.  1015.  2 NAD-SFC NoSubs
10 11 12 316 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  282.0  2.0  0  0.00  71.  1016.  2 NAD-SFC NoSubs
10 11 12 316 23   -1.6  0.082 -9.000 -9.000 -999.   56.     31.7  0.2090  0.72  1.00  0.50   78.0  15.0  281.2  2.0  0  0.00  75.  1016.  2 NAD-SFC NoSubs
10 11 12 316 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  280.8  2.0  0  0.00  78.  1015.  2 NAD-SFC NoSubs
10 11 13 317  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  280.2  2.0  0  0.00  80.  1015.  2 NAD-SFC NoSubs
10 11 13 317  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  279.8  2.0  0  0.00  81.  1015.  2 NAD-SFC NoSubs
10 11 13 317  3   -1.6  0.082 -9.000 -9.000 -999.   57.     31.9  0.2160  0.72  1.00  0.50  285.0  15.0  279.5  2.0  0  0.00  80.  1015.  2 NAD-SFC NoSubs
10 11 13 317  4   -3.8  0.098 -9.000 -9.000 -999.   73.     22.5  0.2160  0.72  1.00  1.00  291.0  15.0  279.4  2.0  0  0.00  79.  1015.  2 NAD-SFC NoSubs
10 11 13 317  5   -3.8  0.098 -9.000 -9.000 -999.   74.     22.5  0.2160  0.72  1.00  1.00  288.0  15.0  279.2  2.0  0  0.00  79.  1014.  2 NAD-SFC NoSubs
10 11 13 317  6   -7.5  0.129 -9.000 -9.000 -999.  111.     26.0  0.2160  0.72  1.00  1.50  294.0  15.0  279.0  2.0  0  0.00  80.  1015.  2 NAD-SFC NoSubs
10 11 13 317  7   -7.5  0.129 -9.000 -9.000 -999.  111.     26.0  0.2160  0.72  1.00  1.50  293.0  15.0  278.9  2.0  0  0.00  82.  1015.  2 NAD-SFC NoSubs
10 11 13 317  8    0.5  0.145  0.047  0.011    7.  132.   -567.8  0.2160  0.72  0.41  1.50  294.0  15.0  279.0  2.0  0  0.00  82.  1015.  2 NAD-SFC NoSubs
10 11 13 317  9   47.4  0.256  0.496  0.011   93.  311.    -32.1  0.2720  0.72  0.27  2.10  313.0  15.0  281.5  2.0  0  0.00  69.  1015.  2 NAD-SFC NoSubs
10 11 13 317 10   85.8  0.215  0.839  0.011  249.  240.    -10.4  0.2720  0.72  0.23  1.50  309.0  15.0  283.4  2.0  0  0.00  62.  1014.  2 NAD-SFC NoSubs
10 11 13 317 11  111.1  0.171  1.078  0.011  408.  170.     -4.0  0.2720  0.72  0.21  1.00  303.0  15.0  285.2  2.0  0  0.00  55.  1014.  2 NAD-SFC NoSubs
10 11 13 317 12  122.0  0.223  1.189  0.011  498.  253.     -8.2  0.2720  0.72  0.21  1.50  310.0  15.0  287.2  2.0  0  0.00  46.  1013.  2 NAD-SFC NoSubs
10 11 13 317 13  118.0  0.222  1.232  0.010  573.  252.     -8.4  0.2720  0.72  0.21  1.50  323.0  15.0  288.2  2.0  0  0.00  44.  1012.  2 NAD-SFC NoSubs
10 11 13 317 14   99.2  0.218  1.201  0.009  629.  245.     -9.5  0.2720  0.72  0.22  1.50  321.0  15.0  289.1  2.0  0  0.00  42.  1011.  2 NAD-SFC NoSubs
10 11 13 317 15   66.5  0.212  1.070  0.009  666.  234.    -12.9  0.2930  0.72  0.25  1.50  335.0  15.0  289.5  2.0  0  0.00  42.  1011.  2 NAD-SFC NoSubs
10 11 13 317 16   22.3  0.190  0.749  0.009  679.  199.    -27.9  0.2930  0.72  0.33  1.50  344.0  15.0  289.5  2.0  0  0.00  46.  1011.  2 NAD-SFC NoSubs
10 11 13 317 17   -3.7  0.099 -9.000 -9.000 -999.   78.     23.9  0.2930  0.72  0.60  1.00  350.0  15.0  288.8  2.0  0  0.00  50.  1011.  2 NAD-SFC NoSubs
10 11 13 317 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  287.6  2.0  0  0.00  55.  1011.  2 NAD-SFC NoSubs
10 11 13 317 19   -1.5  0.080 -9.000 -9.000 -999.   54.     31.2  0.1810  0.72  1.00  0.50  153.0  15.0  286.2  2.0  0  0.00  62.  1011.  2 NAD-SFC NoSubs
10 11 13 317 20   -3.5  0.095 -9.000 -9.000 -999.   70.     21.8  0.1810  0.72  1.00  1.00  167.0  15.0  285.1  2.0  0  0.00  67.  1011.  2 NAD-SFC NoSubs
10 11 13 317 21   -3.5  0.095 -9.000 -9.000 -999.   70.     21.8  0.1810  0.72  1.00  1.00  169.0  15.0  284.2  2.0  0  0.00  70.  1011.  2 NAD-SFC NoSubs
10 11 13 317 22   -1.5  0.081 -9.000 -9.000 -999.   55.     31.5  0.1970  0.72  1.00  0.50  132.0  15.0  283.5  2.0  0  0.00  72.  1012.  2 NAD-SFC NoSubs
10 11 13 317 23   -1.6  0.082 -9.000 -9.000 -999.   56.     31.7  0.2130  0.72  1.00  0.50  114.0  15.0  282.9  2.0  0  0.00  75.  1012.  2 NAD-SFC NoSubs
10 11 13 317 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  282.2  2.0  0  0.00  76.  1011.  2 NAD-SFC NoSubs
10 11 14 318  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  281.9  2.0  0  0.00  77.  1011.  2 NAD-SFC NoSubs
10 11 14 318  2   -1.5  0.080 -9.000 -9.000 -999.   54.     31.3  0.1750  0.72  1.00  0.50  262.0  15.0  281.5  2.0  0  0.00  77.  1011.  2 NAD-SFC NoSubs
10 11 14 318  3   -3.5  0.095 -9.000 -9.000 -999.   70.     21.8  0.1750  0.72  1.00  1.00  247.0  15.0  281.2  2.0  0  0.00  76.  1011.  2 NAD-SFC NoSubs
10 11 14 318  4   -6.8  0.123 -9.000 -9.000 -999.  103.     24.4  0.1750  0.72  1.00  1.50  263.0  15.0  281.2  2.0  0  0.00  76.  1010.  2 NAD-SFC NoSubs
10 11 14 318  5  -13.4  0.173 -9.000 -9.000 -999.  172.     34.6  0.1750  0.72  1.00  2.10  260.0  15.0  281.1  2.0  0  0.00  76.  1010.  2 NAD-SFC NoSubs
10 11 14 318  6  -13.4  0.173 -9.000 -9.000 -999.  172.     34.6  0.1750  0.72  1.00  2.10  268.0  15.0  281.0  2.0  0  0.00  75.  1011.  2 NAD-SFC NoSubs
10 11 14 318  7  -13.4  0.173 -9.000 -9.000 -999.  172.     34.6  0.1750  0.72  1.00  2.10  262.0  15.0  280.9  2.0  0  0.00  74.  1011.  2 NAD-SFC NoSubs
10 11 14 318  8   -0.2  0.191 -9.000 -9.000 -999.  200.   3806.8  0.1750  0.72  0.41  2.10  255.0  15.0  280.9  2.0  0  0.00  73.  1011.  2 NAD-SFC NoSubs
10 11 14 318  9   46.5  0.191  0.497  0.010   95.  201.    -13.6  0.2160  0.72  0.27  1.50  277.0  15.0  282.8  2.0  0  0.00  63.  1011.  2 NAD-SFC NoSubs
10 11 14 318 10   85.0  0.204  0.799  0.010  216.  222.     -9.0  0.2160  0.72  0.23  1.50  282.0  15.0  284.8  2.0  0  0.00  57.  1010.  2 NAD-SFC NoSubs
10 11 14 318 11  110.4  0.162  1.044  0.009  372.  157.     -3.5  0.2160  0.72  0.21  1.00  272.0  15.0  286.6  2.0  0  0.00  52.  1010.  2 NAD-SFC NoSubs
10 11 14 318 12  121.3  0.164  1.186  0.009  495.  160.     -3.3  0.2160  0.72  0.21  1.00  279.0  15.0  288.5  2.0  0  0.00  45.  1009.  2 NAD-SFC NoSubs
10 11 14 318 13  117.3  0.172  1.245  0.009  591.  171.     -3.9  0.2720  0.72  0.21  1.00  304.0  15.0  289.5  2.0  0  0.00  44.  1008.  2 NAD-SFC NoSubs
10 11 14 318 14   98.6  0.218  1.220  0.009  662.  245.     -9.5  0.2720  0.72  0.22  1.50  320.0  15.0  290.1  2.0  0  0.00  44.  1007.  2 NAD-SFC NoSubs
10 11 14 318 15   65.9  0.209  1.090  0.009  706.  229.    -12.4  0.2720  0.72  0.25  1.50  318.0  15.0  290.4  2.0  0  0.00  44.  1007.  2 NAD-SFC NoSubs
10 11 14 318 16   21.8  0.190  0.759  0.009  720.  199.    -28.2  0.2930  0.72  0.34  1.50  333.0  15.0  290.4  2.0  0  0.00  48.  1006.  2 NAD-SFC NoSubs
10 11 14 318 17   -1.5  0.079 -9.000 -9.000 -999.   62.     30.6  0.2930  0.72  0.61  0.50  352.0  15.0  289.8  2.0  0  0.00  52.  1006.  2 NAD-SFC NoSubs
10 11 14 318 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  288.5  2.0  0  0.00  57.  1006.  2 NAD-SFC NoSubs
10 11 14 318 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  287.2  2.0  0  0.00  64.  1006.  2 NAD-SFC NoSubs
10 11 14 318 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  286.2  2.0  0  0.00  69.  1006.  2 NAD-SFC NoSubs
10 11 14 318 21   -1.5  0.082 -9.000 -9.000 -999.   56.     31.6  0.2130  0.72  1.00  0.50  108.0  15.0  285.2  2.0  0  0.00  73.  1007.  2 NAD-SFC NoSubs
10 11 14 318 22   -1.5  0.081 -9.000 -9.000 -999.   55.     31.5  0.1970  0.72  1.00  0.50  121.0  15.0  284.6  2.0  0  0.00  76.  1007.  2 NAD-SFC NoSubs
10 11 14 318 23   -3.6  0.096 -9.000 -9.000 -999.   71.     22.1  0.1970  0.72  1.00  1.00  131.0  15.0  284.1  2.0  0  0.00  77.  1007.  2 NAD-SFC NoSubs
10 11 14 318 24   -3.7  0.097 -9.000 -9.000 -999.   73.     22.4  0.2130  0.72  1.00  1.00  118.0  15.0  283.6  2.0  0  0.00  78.  1007.  2 NAD-SFC NoSubs
10 11 15 319  1   -3.6  0.096 -9.000 -9.000 -999.   71.     22.1  0.1970  0.72  1.00  1.00  124.0  15.0  283.2  2.0  0  0.00  79.  1007.  2 NAD-SFC NoSubs
10 11 15 319  2   -3.6  0.096 -9.000 -9.000 -999.   72.     22.1  0.1970  0.72  1.00  1.00  128.0  15.0  282.9  2.0  0  0.00  79.  1006.  2 NAD-SFC NoSubs
10 11 15 319  3   -1.5  0.080 -9.000 -9.000 -999.   55.     31.3  0.1810  0.72  1.00  0.50  152.0  15.0  282.8  2.0  0  0.00  79.  1006.  2 NAD-SFC NoSubs
10 11 15 319  4   -1.5  0.081 -9.000 -9.000 -999.   55.     31.5  0.1900  0.72  1.00  0.50  201.0  15.0  282.4  2.0  0  0.00  80.  1006.  2 NAD-SFC NoSubs
10 11 15 319  5   -3.6  0.096 -9.000 -9.000 -999.   71.     22.1  0.1950  0.72  1.00  1.00  233.0  15.0  282.2  2.0  0  0.00  83.  1006.  2 NAD-SFC NoSubs
10 11 15 319  6   -3.6  0.096 -9.000 -9.000 -999.   71.     22.1  0.1950  0.72  1.00  1.00  227.0  15.0  281.9  2.0  0  0.00  88.  1006.  2 NAD-SFC NoSubs
10 11 15 319  7   -3.6  0.096 -9.000 -9.000 -999.   71.     22.1  0.1950  0.72  1.00  1.00  235.0  15.0  281.8  2.0  0  0.00  91.  1006.  2 NAD-SFC NoSubs
10 11 15 319  8   -0.6  0.136 -9.000 -9.000 -999.  120.    394.1  0.1950  0.72  0.42  1.50  212.0  15.0  281.8  2.0  0  0.00  93.  1007.  2 NAD-SFC NoSubs
10 11 15 319  9   45.6  0.093  0.506  0.011  102.   68.     -1.6  0.1950  0.72  0.28  0.50  216.0  15.0  283.8  2.0  0  0.00  85.  1007.  2 NAD-SFC NoSubs
10 11 15 319 10   84.2  0.100  0.847  0.010  259.   76.     -1.1  0.1900  0.72  0.23  0.50  194.0  15.0  285.9  2.0  0  0.00  77.  1007.  2 NAD-SFC NoSubs
10 11 15 319 11  109.7 -9.000 -9.000 -9.000  404. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  288.0  2.0  0  0.00  68.  1007.  2 NAD-SFC NoSubs
10 11 15 319 12  120.7 -9.000 -9.000 -9.000  515. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  289.8  2.0  0  0.00  60.  1006.  2 NAD-SFC NoSubs
10 11 15 319 13  116.7 -9.000 -9.000 -9.000  604. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  290.8  2.0  0  0.00  56.  1006.  2 NAD-SFC NoSubs
10 11 15 319 14   98.2  0.171  1.224  0.010  669.  169.     -4.5  0.2930  0.72  0.22  1.00  334.0  15.0  291.6  2.0  0  0.00  54.  1005.  2 NAD-SFC NoSubs
10 11 15 319 15   65.6  0.212  1.089  0.010  707.  234.    -13.0  0.2930  0.72  0.25  1.50  349.0  15.0  292.0  2.0  0  0.00  53.  1004.  2 NAD-SFC NoSubs
10 11 15 319 16   21.6  0.245  0.757  0.010  718.  291.    -61.0  0.2930  0.72  0.34  2.10  356.0  15.0  291.9  2.0  0  0.00  57.  1004.  2 NAD-SFC NoSubs
10 11 15 319 17  -15.6  0.201 -9.000 -9.000 -999.  217.     46.7  0.2940  0.72  0.61  2.10    8.0  15.0  291.1  2.0  0  0.00  60.  1004.  2 NAD-SFC NoSubs
10 11 15 319 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  289.9  2.0  0  0.00  65.  1004.  2 NAD-SFC NoSubs
10 11 15 319 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  288.6  2.0  0  0.00  71.  1005.  2 NAD-SFC NoSubs
10 11 15 319 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  287.5  2.0  0  0.00  77.  1005.  2 NAD-SFC NoSubs
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10 11 15 319 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 286.5 2.0 0 0.00 82. 1005. 2 NAD-SFC NoSubs
10 11 15 319 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 285.6 2.0 0 0.00 86. 1005. 2 NAD-SFC NoSubs
10 11 15 319 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 284.9 2.0 0 0.00 89. 1005. 2 NAD-SFC NoSubs
10 11 15 319 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 284.2 2.0 0 0.00 91. 1005. 2 NAD-SFC NoSubs
10 11 16 320  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 283.8 2.0 0 0.00 93. 1005. 2 NAD-SFC NoSubs
10 11 16 320  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 283.2 2.0 0 0.00 95. 1004. 2 NAD-SFC NoSubs
10 11 16 320  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 282.9 2.0 0 0.00 96. 1004. 2 NAD-SFC NoSubs
10 11 16 320  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 282.4 2.0 0 0.00 98. 1004. 2 NAD-SFC NoSubs
10 11 16 320  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 281.2 2.0 0 0.00 100. 1004. 2 NAD-SFC NoSubs
10 11 16 320  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 280.1 2.0 0 0.00 100. 1004. 2 NAD-SFC NoSubs
10 11 16 320  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 279.2 2.0 0 0.00 100. 1005. 2 NAD-SFC NoSubs
10 11 16 320  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 0.42 0.00   0.0 15.0 278.8 2.0 0 0.00 100. 1005. 2 NAD-SFC NoSubs
10 11 16 320  9   43.7 -9.000 -9.000 -9.000   90. -999. -99999.0 0.2235 0.72 0.28 0.00   0.0 15.0 279.4 2.0 0 0.00 100. 1005. 2 NAD-SFC NoSubs
10 11 16 320 10   82.1 -9.000 -9.000 -9.000  223. -999. -99999.0 0.2235 0.72 0.23 0.00   0.0 15.0 281.8 2.0 0 0.00 98. 1005. 2 NAD-SFC NoSubs
10 11 16 320 11  108.3 -9.000 -9.000 -9.000  347. -999. -99999.0 0.2235 0.72 0.21 0.00   0.0 15.0 287.1 2.0 0 0.00 73. 1005. 2 NAD-SFC NoSubs
10 11 16 320 12  119.5 -9.000 -9.000 -9.000  442. -999. -99999.0 0.2235 0.72 0.21 0.00   0.0 15.0 289.2 2.0 0 0.00 65. 1004. 2 NAD-SFC NoSubs
10 11 16 320 13  115.9 -9.000 -9.000 -9.000  517. -999. -99999.0 0.2235 0.72 0.21 0.00   0.0 15.0 291.1 2.0 0 0.00 57. 1004. 2 NAD-SFC NoSubs
10 11 16 320 14   97.4  0.110  1.159  0.009  572.  88.     -1.2 0.2720 0.72 0.22 0.50 309.0 15.0 291.9 2.0 0 0.00 53. 1003. 2 NAD-SFC NoSubs
10 11 16 320 15   64.8  0.208  1.032  0.009  606. 228.    -12.5 0.2720 0.72 0.25 1.50 316.0 15.0 292.2 2.0 0 0.00 53. 1003. 2 NAD-SFC NoSubs
10 11 16 320 16   21.3  0.241  0.717  0.008  618. 284.    -58.7 0.2720 0.72 0.34 2.10 316.0 15.0 293.0 2.0 0 0.00 52. 1003. 2 NAD-SFC NoSubs
10 11 16 320 17  -15.6  0.201 -9.000 -9.000 -999. 216.     46.5 0.2930 0.72 0.62 2.10 348.0 15.0 292.2 2.0 0 0.00 56. 1003. 2 NAD-SFC NoSubs
10 11 16 320 18   -4.0  0.102 -9.000 -9.000 -999.  83.     23.6 0.2930 0.72 1.00 1.00 352.0 15.0 291.2 2.0 0 0.00 60. 1003. 2 NAD-SFC NoSubs
10 11 16 320 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 290.0 2.0 0 0.00 65. 1003. 2 NAD-SFC NoSubs
10 11 16 320 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 288.8 2.0 0 0.00 71. 1004. 2 NAD-SFC NoSubs
10 11 16 320 21   -1.4  0.079 -9.000 -9.000 -999.  54.     31.1 0.1750 0.72 1.00 0.50 245.0 15.0 287.6 2.0 0 0.00 76. 1004. 2 NAD-SFC NoSubs
10 11 16 320 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 286.8 2.0 0 0.00 80. 1004. 2 NAD-SFC NoSubs
10 11 16 320 23   -1.6  0.084 -9.000 -9.000 -999.  58.     32.1 0.2720 0.72 1.00 0.50 301.0 15.0 286.1 2.0 0 0.00 82. 1004. 2 NAD-SFC NoSubs
10 11 16 320 24   -1.7  0.084 -9.000 -9.000 -999.  58.     32.1 0.2720 0.72 1.00 0.50 312.0 15.0 285.5 2.0 0 0.00 84. 1004. 2 NAD-SFC NoSubs
10 11 17 321  1   -1.5  0.082 -9.000 -9.000 -999.  56.     31.6 0.2160 0.72 1.00 0.50 272.0 15.0 285.1 2.0 0 0.00 86. 1004. 2 NAD-SFC NoSubs
10 11 17 321  2   -3.4  0.094 -9.000 -9.000 -999.  69.     21.7 0.1750 0.72 1.00 1.00 255.0 15.0 284.8 2.0 0 0.00 87. 1005. 2 NAD-SFC NoSubs
10 11 17 321  3   -6.7  0.123 -9.000 -9.000 -999. 103.     24.5 0.1750 0.72 1.00 1.50 263.0 15.0 284.5 2.0 0 0.00 87. 1005. 2 NAD-SFC NoSubs
10 11 17 321  4  -14.5  0.183 -9.000 -9.000 -999. 187.     37.6 0.2160 0.72 1.00 2.10 275.0 15.0 284.2 2.0 0 0.00 88. 1005. 2 NAD-SFC NoSubs
10 11 17 321  5  -14.6  0.183 -9.000 -9.000 -999. 187.     37.6 0.2160 0.72 1.00 2.10 279.0 15.0 283.9 2.0 0 0.00 87. 1006. 2 NAD-SFC NoSubs
10 11 17 321  6  -14.6  0.183 -9.000 -9.000 -999. 187.     37.5 0.2160 0.72 1.00 2.10 283.0 15.0 283.5 2.0 0 0.00 85. 1007. 2 NAD-SFC NoSubs
10 11 17 321  7  -14.6  0.183 -9.000 -9.000 -999. 187.     37.5 0.2160 0.72 1.00 2.10 286.0 15.0 283.1 2.0 0 0.00 82. 1007. 2 NAD-SFC NoSubs
10 11 17 321  8   -1.8  0.137 -9.000 -9.000 -999. 121.    129.8 0.2160 0.72 0.43 1.50 296.0 15.0 282.9 2.0 0 0.00 78. 1008. 2 NAD-SFC NoSubs
10 11 17 321  9   43.7  0.255  0.535  0.010  126. 308.    -33.9 0.2720 0.72 0.28 2.10 315.0 15.0 284.8 2.0 0 0.00 62. 1008. 2 NAD-SFC NoSubs
10 11 17 321 10   82.1  0.214  0.829  0.010  249. 238.    -10.7 0.2720 0.72 0.23 1.50 306.0 15.0 286.2 2.0 0 0.00 55. 1009. 2 NAD-SFC NoSubs
10 11 17 321 11  107.6  0.170  1.040  0.010  377. 169.     -4.1 0.2720 0.72 0.21 1.00 321.0 15.0 288.2 2.0 0 0.00 51. 1009. 2 NAD-SFC NoSubs
10 11 17 321 12  118.7  0.113  1.184  0.010  503.  92.     -1.1 0.2720 0.72 0.21 0.50 326.0 15.0 290.0 2.0 0 0.00 48. 1008. 2 NAD-SFC NoSubs
10 11 17 321 13  115.1  0.115  1.245  0.009  604.  93.     -1.2 0.2930 0.72 0.21 0.50 333.0 15.0 291.6 2.0 0 0.00 43. 1008. 2 NAD-SFC NoSubs
10 11 17 321 14   96.7  0.170  1.219  0.008  674. 169.     -4.6 0.2930 0.72 0.22 1.00 356.0 15.0 292.5 2.0 0 0.00 39. 1007. 2 NAD-SFC NoSubs
10 11 17 321 15   64.2  0.212  1.083  0.008  711. 234.    -13.3 0.2940 0.72 0.25 1.50  12.0 15.0 292.8 2.0 0 0.00 40. 1007. 2 NAD-SFC NoSubs
10 11 17 321 16   20.4  0.244  0.744  0.008  722. 290.    -64.0 0.2940 0.72 0.34 2.10  20.0 15.0 292.5 2.0 0 0.00 45. 1006. 2 NAD-SFC NoSubs
10 11 17 321 17  -15.8  0.201 -9.000 -9.000 -999. 217.     46.2 0.2940 0.72 0.62 2.10  28.0 15.0 291.6 2.0 0 0.00 49. 1006. 2 NAD-SFC NoSubs
10 11 17 321 18   -8.3  0.140 -9.000 -9.000 -999. 126.     29.5 0.2940 0.72 1.00 1.50  24.0 15.0 290.4 2.0 0 0.00 53. 1007. 2 NAD-SFC NoSubs
10 11 17 321 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 289.0 2.0 0 0.00 60. 1007. 2 NAD-SFC NoSubs
10 11 17 321 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 287.6 2.0 0 0.00 67. 1007. 2 NAD-SFC NoSubs
10 11 17 321 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 286.6 2.0 0 0.00 71. 1007. 2 NAD-SFC NoSubs
10 11 17 321 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 285.8 2.0 0 0.00 74. 1007. 2 NAD-SFC NoSubs
10 11 17 321 23   -1.7  0.085 -9.000 -9.000 -999.  59.     32.2 0.2930 0.72 1.00 0.50 349.0 15.0 285.0 2.0 0 0.00 76. 1008. 2 NAD-SFC NoSubs
10 11 17 321 24   -4.1  0.103 -9.000 -9.000 -999.  79.     23.6 0.2930 0.72 1.00 1.00 343.0 15.0 284.4 2.0 0 0.00 76. 1008. 2 NAD-SFC NoSubs
10 11 18 322  1   -4.1  0.103 -9.000 -9.000 -999.  79.     23.6 0.2930 0.72 1.00 1.00 331.0 15.0 284.1 2.0 0 0.00 75. 1008. 2 NAD-SFC NoSubs
10 11 18 322  2   -4.0  0.101 -9.000 -9.000 -999.  78.     23.3 0.2720 0.72 1.00 1.00 305.0 15.0 283.8 2.0 0 0.00 75. 1008. 2 NAD-SFC NoSubs
10 11 18 322  3   -3.7  0.098 -9.000 -9.000 -999.  73.     22.5 0.2160 0.72 1.00 1.00 286.0 15.0 283.2 2.0 0 0.00 76. 1008. 2 NAD-SFC NoSubs
10 11 18 322  4   -1.6  0.082 -9.000 -9.000 -999.  56.     31.7 0.2160 0.72 1.00 0.50 278.0 15.0 282.8 2.0 0 0.00 76. 1008. 2 NAD-SFC NoSubs
10 11 18 322  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 282.2 2.0 0 0.00 77. 1008. 2 NAD-SFC NoSubs
10 11 18 322  6   -1.5  0.080 -9.000 -9.000 -999.  55.     31.4 0.1810 0.72 1.00 0.50 156.0 15.0 281.8 2.0 0 0.00 77. 1008. 2 NAD-SFC NoSubs
10 11 18 322  7   -1.5  0.080 -9.000 -9.000 -999.  55.     31.4 0.1810 0.72 1.00 0.50 160.0 15.0 281.6 2.0 0 0.00 76. 1008. 2 NAD-SFC NoSubs
10 11 18 322  8   -0.3  0.044 -9.000 -9.000 -999.  23.     23.0 0.2130 0.72 0.43 0.50  92.0 15.0 281.6 2.0 0 0.00 74. 1008. 2 NAD-SFC NoSubs
10 11 18 322  9   42.2 -9.000 -9.000 -9.000   85. -999. -99999.0 0.2235 0.72 0.28 0.00   0.0 15.0 283.2 2.0 0 0.00 71. 1008. 2 NAD-SFC NoSubs
10 11 18 322 10   81.1 -9.000 -9.000 -9.000  201. -999. -99999.0 0.2235 0.72 0.23 0.00   0.0 15.0 286.8 2.0 0 0.00 58. 1008. 2 NAD-SFC NoSubs
10 11 18 322 11  106.8 -9.000 -9.000 -9.000  342. -999. -99999.0 0.2235 0.72 0.21 0.00   0.0 15.0 289.2 2.0 0 0.00 50. 1007. 2 NAD-SFC NoSubs
10 11 18 322 12  118.0 -9.000 -9.000 -9.000  467. -999. -99999.0 0.2235 0.72 0.21 0.00   0.0 15.0 290.9 2.0 0 0.00 45. 1006. 2 NAD-SFC NoSubs
10 11 18 322 13  114.4 -9.000 -9.000 -9.000  574. -999. -99999.0 0.2235 0.72 0.21 0.00   0.0 15.0 292.4 2.0 0 0.00 41. 1006. 2 NAD-SFC NoSubs
10 11 18 322 14   96.1  0.110  1.203  0.007  650.  88.     -1.2 0.2720 0.72 0.22 0.50 308.0 15.0 293.2 2.0 0 0.00 38. 1005. 2 NAD-SFC NoSubs
10 11 18 322 15   63.7  0.106  1.079  0.007  708.  83.     -1.7 0.2930 0.72 0.25 0.50 332.0 15.0 293.5 2.0 0 0.00 37. 1004. 2 NAD-SFC NoSubs
10 11 18 322 16   20.0  0.142  0.740  0.007  725. 128.    -12.7 0.2930 0.72 0.34 1.00 347.0 15.0 293.2 2.0 0 0.00 40. 1004. 2 NAD-SFC NoSubs
10 11 18 322 17   -3.7  0.100 -9.000 -9.000 -999.  76.     23.8 0.2940 0.72 0.63 1.00   7.0 15.0 292.4 2.0 0 0.00 45. 1004. 2 NAD-SFC NoSubs
10 11 18 322 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 290.8 2.0 0 0.00 52. 1004. 2 NAD-SFC NoSubs
10 11 18 322 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 289.2 2.0 0 0.00 59. 1004. 2 NAD-SFC NoSubs
10 11 18 322 20   -3.6  0.097 -9.000 -9.000 -999.  73.     22.4 0.2160 0.72 1.00 1.00 272.0 15.0 288.1 2.0 0 0.00 64. 1004. 2 NAD-SFC NoSubs
10 11 18 322 21  -24.8  0.246 -9.000 -9.000 -999. 293.     53.8 0.2720 0.72 1.00 2.60 303.0 15.0 287.2 2.0 0 0.00 65. 1004. 3 NAD-SFC NoSubs
10 11 18 322 22  -36.5  0.347 -9.000 -9.000 -999. 490.    102.1 0.2720 0.72 1.00 3.60 308.0 15.0 286.4 2.0 0 0.00 67. 1004. 3 NAD-SFC NoSubs
10 11 18 322 23  -31.3  0.296 -9.000 -9.000 -999. 389.     74.5 0.2720 0.72 1.00 3.10 323.0 15.0 285.6 2.0 0 0.00 71. 1004. 3 NAD-SFC NoSubs
10 11 18 322 24  -32.1  0.303 -9.000 -9.000 -999. 400.     77.6 0.2930 0.72 1.00 3.10 335.0 15.0 284.9 2.0 0 0.00 76. 1004. 3 NAD-SFC NoSubs
10 11 19 323  1  -37.6  0.354 -9.000 -9.000 -999. 506.    105.8 0.2930 0.72 1.00 3.60 337.0 15.0 284.1 2.0 0 0.00 82. 1004. 3 NAD-SFC NoSubs
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10 11 19 323  2  -32.3  0.303 -9.000 -9.000 -999.  402.     77.2  0.2930  0.72  1.00  3.10  337.0  15.0  283.5  2.0  0  0.00  89.  1004.   3 NAD-SFC NoSubs
10 11 19 323  3  -25.9  0.251 -9.000 -9.000 -999.  304.     55.0  0.2930  0.72  1.00  2.60  346.0  15.0  283.2  2.0  0  0.00  91.  1004.   3 NAD-SFC NoSubs
10 11 19 323  4  -16.6  0.200 -9.000 -9.000 -999.  215.     43.0  0.2940  0.72  1.00  2.10    5.0  15.0  283.1  2.0  0  0.00  93.  1003.   3 NAD-SFC NoSubs
10 11 19 323  5   -8.3  0.140 -9.000 -9.000 -999.  126.     29.5  0.2940  0.72  1.00  1.50   12.0  15.0  283.0  2.0  0  0.00  93.  1003.   3 NAD-SFC NoSubs
10 11 19 323  6   -8.3  0.140 -9.000 -9.000 -999.  126.     29.5  0.2940  0.72  1.00  1.50   28.0  15.0  282.9  2.0  0  0.00  95.  1003.   3 NAD-SFC NoSubs
10 11 19 323  7   -8.3  0.140 -9.000 -9.000 -999.  126.     29.5  0.2940  0.72  1.00  1.50   27.0  15.0  282.8  2.0  0  0.00  95.  1004.   3 NAD-SFC NoSubs
10 11 19 323  8   -2.0  0.149 -9.000 -9.000 -999.  138.    148.1  0.2940  0.72  0.44  1.50   29.0  15.0  282.6  2.0  0  0.00  96.  1004.   3 NAD-SFC NoSubs
10 11 19 323  9   42.5  0.258  0.555  0.007  144.  315.    -36.4  0.2940  0.72  0.28  2.10   24.0  15.0  282.8  2.0  0  0.00  93.  1004.   3 NAD-SFC NoSubs
10 11 19 323 10   80.4 -9.000 -9.000 -9.000  272. -999. -99999.0  0.2235  0.72  0.23  0.00    0.0  15.0  284.2  2.0  0  0.00  80.  1004.   3 NAD-SFC NoSubs
10 11 19 323 11  105.5  0.224  1.060  0.006  404.  254.     -9.5  0.2940  0.72  0.21  1.50   15.0  15.0  285.6  2.0  0  0.00  72.  1004.   3 NAD-SFC NoSubs
10 11 19 323 12  116.4  0.226  1.202  0.005  534.  258.     -8.9  0.2940  0.72  0.21  1.50   23.0  15.0  286.9  2.0  0  0.00  64.  1003.   3 NAD-SFC NoSubs
10 11 19 323 13  111.8  0.217  1.256  0.005  634.  242.     -8.1  0.2470  0.72  0.21  1.50   33.0  15.0  287.6  2.0  0  0.00  60.  1003.   4 NAD-SFC NoSubs
10 11 19 323 14   91.4  0.267  1.239  0.005  744.  331.    -18.6  0.2470  0.72  0.22  2.10   47.0  15.0  288.0  2.0  0  0.00  58.  1002.   5 NAD-SFC NoSubs
10 11 19 323 15   61.1  0.345  1.119  0.005  818.  486.    -60.0  0.2470  0.72  0.25  3.10   55.0  15.0  288.0  2.0  0  0.00  61.  1002.   5 NAD-SFC NoSubs
10 11 19 323 16   19.9  0.324  0.776  0.005  840.  442.   -152.3  0.2470  0.72  0.35  3.10   52.0  15.0  287.2  2.0  0  0.00  67.  1001.   6 NAD-SFC NoSubs
10 11 19 323 17  -19.3  0.292 -9.000 -9.000 -999.  378.    114.3  0.2470  0.72  0.63  3.10   46.0  15.0  286.5  2.0  0  0.00  71.  1001.   8 NAD-SFC NoSubs
10 11 19 323 18  -10.7  0.195 -9.000 -9.000 -999.  210.     61.5  0.2470  0.72  1.00  2.10   52.0  15.0  286.2  2.0  0  0.00  71.  1002.  10 NAD-SFC NoSubs
10 11 19 323 19   -2.7  0.094 -9.000 -9.000 -999.   74.     27.5  0.2940  0.72  1.00  1.00   25.0  15.0  286.0  2.0  0  0.00  71.  1002.  10 NAD-SFC NoSubs
10 11 19 323 20   -1.3  0.076 -9.000 -9.000 -999.   50.     29.7  0.2930  0.72  1.00  0.50  354.0  15.0  285.8  2.0  0  0.00  72.  1002.   7 NAD-SFC NoSubs
10 11 19 323 21   -1.5  0.081 -9.000 -9.000 -999.   55.     31.1  0.2930  0.72  1.00  0.50  346.0  15.0  285.6  2.0  0  0.00  73.  1002.   5 NAD-SFC NoSubs
10 11 19 323 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  285.4  2.0  0  0.00  75.  1002.   4 NAD-SFC NoSubs
10 11 19 323 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  285.1  2.0  0  0.00  77.  1002.   4 NAD-SFC NoSubs
10 11 19 323 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  284.9  2.0  0  0.00  78.  1002.   4 NAD-SFC NoSubs
10 11 20 324  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  284.8  2.0  0  0.00  78.  1002.   5 NAD-SFC NoSubs
10 11 20 324  2   -1.4  0.078 -9.000 -9.000 -999.   52.     30.3  0.2720  0.72  1.00  0.50  309.0  15.0  284.8  2.0  0  0.00  78.  1002.   6 NAD-SFC NoSubs
10 11 20 324  3   -2.7  0.094 -9.000 -9.000 -999.   69.     27.4  0.2940  0.72  1.00  1.00    2.0  15.0  284.0  2.0  0  1.02  86.  1002.  10 NAD-SFC NoSubs
10 11 20 324  4  -12.7  0.183 -9.000 -9.000 -999.  188.     43.2  0.2090  0.72  1.00  2.10   82.0  15.0  283.5  2.0  0  1.78  92.  1002.   7 NAD-SFC NoSubs
10 11 20 324  5  -15.6  0.280 -9.000 -9.000 -999.  355.    125.6  0.2090  0.72  1.00  3.10   89.0  15.0  283.4  2.0  0  2.29  94.  1002.  10 NAD-SFC NoSubs
10 11 20 324  6  -15.6  0.281 -9.000 -9.000 -999.  358.    126.7  0.2130  0.72  1.00  3.10   96.0  15.0  283.2  2.0  0  2.29  95.  1002.  10 NAD-SFC NoSubs
10 11 20 324  7  -15.7  0.281 -9.000 -9.000 -999.  358.    126.7  0.2130  0.72  1.00  3.10  119.0  15.0  283.2  2.0  0  1.78  95.  1003.  10 NAD-SFC NoSubs
10 11 20 324  8   -0.6  0.290 -9.000 -9.000 -999.  374.   3683.1  0.1970  0.72  0.44  3.10  138.0  15.0  283.2  2.0  0  0.51  94.  1003.   5 NAD-SFC NoSubs
10 11 20 324  9   42.2  0.321  0.676  0.005  261.  436.    -70.0  0.1970  0.72  0.29  3.10  130.0  15.0  283.6  2.0  0  0.00  93.  1003.   4 NAD-SFC NoSubs
10 11 20 324 10   79.3  0.293  0.994  0.005  444.  382.    -28.5  0.1970  0.72  0.23  2.60  135.0  15.0  284.4  2.0  0  0.00  89.  1003.   4 NAD-SFC NoSubs
10 11 20 324 11  104.1  0.104  1.232  0.005  643.  123.     -1.0  0.1970  0.72  0.21  0.50  132.0  15.0  286.5  2.0  0  0.00  76.  1003.   4 NAD-SFC NoSubs
10 11 20 324 12   94.2 -9.000 -9.000 -9.000  776. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  287.9  2.0  0  0.00  64.  1002.   7 NAD-SFC NoSubs
10 11 20 324 13   25.3  0.084  0.830  0.005  809.   59.     -2.1  0.1810  0.72  0.21  0.50  165.0  15.0  288.5  2.0  0  0.00  59.  1001.  10 NAD-SFC NoSubs
10 11 20 324 14   20.6  0.130  0.784  0.005  834.  112.     -9.4  0.1900  0.72  0.22  1.00  206.0  15.0  288.6  2.0  0  0.00  59.  1001.  10 NAD-SFC NoSubs
10 11 20 324 15   12.4  0.216  0.665  0.005  847.  241.    -72.8  0.1950  0.72  0.25  2.10  234.0  15.0  288.2  2.0  0  0.25  61.  1001.  10 NAD-SFC NoSubs
10 11 20 324 16    1.5  0.198  0.327  0.005  849.  212.   -475.5  0.1950  0.72  0.35  2.10  225.0  15.0  287.9  2.0  0  0.51  68.  1000.  10 NAD-SFC NoSubs
10 11 20 324 17  -11.0  0.181 -9.000 -9.000 -999.  186.     48.2  0.1950  0.72  0.64  2.10  223.0  15.0  287.6  2.0  0  0.51  68.  1000.   8 NAD-SFC NoSubs
10 11 20 324 18  -29.7  0.309 -9.000 -9.000 -999.  412.     88.6  0.1750  0.72  1.00  3.60  247.0  15.0  287.0  2.0  0  0.25  69.  1001.   5 NAD-SFC NoSubs
10 11 20 324 19  -32.4  0.308 -9.000 -9.000 -999.  410.     80.5  0.1750  0.72  1.00  3.60  245.0  15.0  285.8  2.0  0  0.00  74.  1001.   3 NAD-SFC NoSubs
10 11 20 324 20  -28.6  0.271 -9.000 -9.000 -999.  338.     61.9  0.1950  0.72  1.00  3.10  212.0  15.0  285.1  2.0  0  0.00  77.  1001.   3 NAD-SFC NoSubs
10 11 20 324 21  -32.9  0.311 -9.000 -9.000 -999.  416.     81.5  0.1810  0.72  1.00  3.60  169.0  15.0  284.5  2.0  0  0.00  79.  1001.   3 NAD-SFC NoSubs
10 11 20 324 22  -37.7  0.356 -9.000 -9.000 -999.  509.    106.7  0.1810  0.72  1.00  4.10  152.0  15.0  284.0  2.0  0  0.00  81.  1001.   3 NAD-SFC NoSubs
10 11 20 324 23  -42.5  0.401 -9.000 -9.000 -999.  609.    135.5  0.1810  0.72  1.00  4.60  154.0  15.0  283.9  2.0  0  0.00  81.  1001.   3 NAD-SFC NoSubs
10 11 20 324 24  -41.8  0.410 -9.000 -9.000 -999.  630.    147.1  0.1970  0.72  1.00  4.60  147.0  15.0  284.0  2.0  0  0.00  80.  1000.   4 NAD-SFC NoSubs
10 11 21 325  1  -37.1  0.364 -9.000 -9.000 -999.  528.    115.8  0.1970  0.72  1.00  4.10  148.0  15.0  284.0  2.0  0  0.00  78.  1000.   4 NAD-SFC NoSubs
10 11 21 325  2  -37.1  0.364 -9.000 -9.000 -999.  527.    115.8  0.1970  0.72  1.00  4.10  143.0  15.0  284.1  2.0  0  0.00  78.  1000.   4 NAD-SFC NoSubs
10 11 21 325  3  -32.4  0.318 -9.000 -9.000 -999.  431.     88.3  0.1970  0.72  1.00  3.60  130.0  15.0  284.1  2.0  0  0.25  78.  1000.   4 NAD-SFC NoSubs
10 11 21 325  4   -6.7  0.123 -9.000 -9.000 -999.  146.     25.0  0.1810  0.72  1.00  1.50  176.0  15.0  284.2  2.0  0  0.25  79.  1000.   3 NAD-SFC NoSubs
10 11 21 325  5  -37.4  0.353 -9.000 -9.000 -999.  503.    104.9  0.1750  0.72  1.00  4.10  248.0  15.0  283.9  2.0  0  0.00  86.  1001.   3 NAD-SFC NoSubs
10 11 21 325  6  -37.4  0.353 -9.000 -9.000 -999.  503.    104.9  0.1750  0.72  1.00  4.10  257.0  15.0  283.9  2.0  0  0.00  87.  1002.   3 NAD-SFC NoSubs
10 11 21 325  7  -33.3  0.325 -9.000 -9.000 -999.  446.     92.5  0.2160  0.72  1.00  3.60  284.0  15.0  283.8  2.0  0  0.25  85.  1003.   4 NAD-SFC NoSubs
10 11 21 325  8   -2.1  0.313 -9.000 -9.000 -999.  420.   1315.9  0.2720  0.72  0.45  3.10  309.0  15.0  283.4  2.0  0  0.51  85.  1004.   5 NAD-SFC NoSubs
10 11 21 325  9   38.8  0.348  0.592  0.005  192.  493.    -97.5  0.2930  0.72  0.29  3.10  344.0  15.0  283.6  2.0  0  0.51  83.  1005.   6 NAD-SFC NoSubs
10 11 21 325 10   64.4  0.360  0.931  0.005  449.  518.    -64.9  0.2930  0.72  0.23  3.10  348.0  15.0  283.8  2.0  0  0.51  77.  1006.   7 NAD-SFC NoSubs
10 11 21 325 11   93.8  0.324  1.239  0.005  728.  443.    -32.5  0.2930  0.72  0.21  2.60  348.0  15.0  284.2  2.0  0  0.00  72.  1007.   6 NAD-SFC NoSubs
10 11 21 325 12   25.1  0.334  0.818  0.005  782.  464.   -133.7  0.2720  0.72  0.21  3.10  326.0  15.0  285.4  2.0  0  0.00  62.  1007.  10 NAD-SFC NoSubs
10 11 21 325 13   24.3  0.293  0.825  0.005  830.  382.    -92.9  0.2930  0.72  0.21  2.60  334.0  15.0  286.0  2.0  0  0.00  56.  1007.  10 NAD-SFC NoSubs
10 11 21 325 14   62.6  0.263  1.179  0.005  942.  323.    -26.0  0.2720  0.72  0.22  2.10  319.0  15.0  286.4  2.0  0  0.00  53.  1007.   8 NAD-SFC NoSubs
10 11 21 325 15   41.6  0.254  1.053  0.005 1008.  306.    -35.2  0.2720  0.72  0.26  2.10  325.0  15.0  286.5  2.0  0  0.00  52.  1007.   8 NAD-SFC NoSubs
10 11 21 325 16   16.6  0.232  0.781  0.005 1030.  268.    -67.2  0.2470  0.72  0.35  2.10   42.0  15.0  285.5  2.0  0  0.00  57.  1008.   7 NAD-SFC NoSubs
10 11 21 325 17   -2.8  0.089 -9.000 -9.000 -999.   82.     22.7  0.2090  0.72  0.64  1.00   62.0  15.0  285.1  2.0  0  0.00  58.  1008.   7 NAD-SFC NoSubs
10 11 21 325 18   -2.9  0.089 -9.000 -9.000 -999.   64.     21.9  0.1900  0.72  1.00  1.00  192.0  15.0  284.6  2.0  0  0.00  61.  1009.   7 NAD-SFC NoSubs
10 11 21 325 19  -24.1  0.317 -9.000 -9.000 -999.  428.    118.6  0.1900  0.72  1.00  3.60  198.0  15.0  283.8  2.0  0  0.00  69.  1009.   8 NAD-SFC NoSubs
10 11 21 325 20  -30.7  0.362 -9.000 -9.000 -999.  522.    139.0  0.1900  0.72  1.00  4.10  201.0  15.0  282.9  2.0  0  0.00  76.  1010.   7 NAD-SFC NoSubs
10 11 21 325 21  -26.5  0.269 -9.000 -9.000 -999.  340.     66.4  0.1900  0.72  1.00  3.10  209.0  15.0  282.5  2.0  0  0.00  79.  1010.   5 NAD-SFC NoSubs
10 11 21 325 22  -19.9  0.219 -9.000 -9.000 -999.  246.     47.5  0.1750  0.72  1.00  2.60  242.0  15.0  281.8  2.0  0  0.00  81.  1011.   5 NAD-SFC NoSubs
10 11 21 325 23  -20.4  0.218 -9.000 -9.000 -999.  245.     46.0  0.1750  0.72  1.00  2.60  257.0  15.0  281.0  2.0  0  0.00  83.  1011.   4 NAD-SFC NoSubs
10 11 21 325 24  -14.3  0.183 -9.000 -9.000 -999.  188.     38.7  0.2160  0.72  1.00  2.10  277.0  15.0  280.4  2.0  0  0.00  85.  1011.   4 NAD-SFC NoSubs
10 11 22 326  1   -7.0  0.129 -9.000 -9.000 -999.  111.     27.4  0.2160  0.72  1.00  1.50  288.0  15.0  280.0  2.0  0  0.00  87.  1012.   5 NAD-SFC NoSubs
10 11 22 326  2   -3.4  0.095 -9.000 -9.000 -999.   70.     22.4  0.2160  0.72  1.00  1.00  295.0  15.0  279.8  2.0  0  0.00  89.  1012.   5 NAD-SFC NoSubs
10 11 22 326  3   -6.8  0.129 -9.000 -9.000 -999.  111.     28.3  0.2160  0.72  1.00  1.50  274.0  15.0  279.4  2.0  0  0.00  90.  1012.   6 NAD-SFC NoSubs
10 11 22 326  4  -12.4  0.174 -9.000 -9.000 -999.  174.     38.2  0.1750  0.72  1.00  2.10  268.0  15.0  278.9  2.0  0  0.00  93.  1012.   6 NAD-SFC NoSubs
10 11 22 326  5  -21.9  0.231 -9.000 -9.000 -999.  267.     50.9  0.2160  0.72  1.00  2.60  271.0  15.0  278.5  2.0  0  0.00  94.  1012.   5 NAD-SFC NoSubs
10 11 22 326  6  -14.0  0.183 -9.000 -9.000 -999.  189.     39.7  0.2160  0.72  1.00  2.10  270.0  15.0  278.1  2.0  0  0.00  96.  1013.   5 NAD-SFC NoSubs
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10 11 22 326  7   -6.7  0.122 -9.000 -9.000 -999.  104.     24.9  0.1750  0.72  1.00  1.50  262.0  15.0  277.8  2.0   0  0.00   98.  1014.    4 NAD-SFC NoSubs
10 11 22 326  8   -0.4  0.045 -9.000 -9.000 -999.   27.     21.9  0.1900  0.72  0.45  0.50  204.0  15.0  277.2  2.0   0  0.00   99.  1014.    4 NAD-SFC NoSubs
10 11 22 326  9   39.1  0.093  0.554  0.005  157.   68.     -1.8  0.2130  0.72  0.29  0.50  114.0  15.0  277.2  2.0   0  0.00   99.  1015.    4 NAD-SFC NoSubs
10 11 22 326 10   76.3  0.152  0.914  0.005  362.  142.     -4.1  0.1970  0.72  0.23  1.00  123.0  15.0  279.6  2.0   0  0.00   88.  1015.    4 NAD-SFC NoSubs
10 11 22 326 11  101.1  0.157  1.175  0.005  581.  149.     -3.5  0.1970  0.72  0.22  1.00  138.0  15.0  282.1  2.0   0  0.00   74.  1015.    4 NAD-SFC NoSubs
10 11 22 326 12  111.9  0.103  1.362  0.005  818.   80.     -1.0  0.1810  0.72  0.21  0.50  151.0  15.0  283.5  2.0   0  0.00   66.  1014.    4 NAD-SFC NoSubs
10 11 22 326 13  108.4 -9.000 -9.000 -9.000 1017. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  284.5  2.0   0  0.00   60.  1013.    4 NAD-SFC NoSubs
10 11 22 326 14   88.3 -9.000 -9.000 -9.000 1143. -999. -99999.0  0.2235  0.72  0.22  0.00    0.0  15.0  285.1  2.0   0  0.00   57.  1012.    5 NAD-SFC NoSubs
10 11 22 326 15   58.4 -9.000 -9.000 -9.000 1218. -999. -99999.0  0.2235  0.72  0.26  0.00    0.0  15.0  285.4  2.0   0  0.00   55.  1012.    5 NAD-SFC NoSubs
10 11 22 326 16   17.9 -9.000 -9.000 -9.000 1241. -999. -99999.0  0.2235  0.72  0.35  0.00    0.0  15.0  285.4  2.0   0  0.00   55.  1011.    4 NAD-SFC NoSubs
10 11 22 326 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.65  0.00    0.0  15.0  284.9  2.0   0  0.00   59.  1010.    4 NAD-SFC NoSubs
10 11 22 326 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  283.8  2.0   0  0.00   65.  1011.    5 NAD-SFC NoSubs
10 11 22 326 19   -3.2  0.092 -9.000 -9.000 -999.   67.     21.7  0.1810  0.72  1.00  1.00  158.0  15.0  282.6  2.0   0  0.00   71.  1011.    5 NAD-SFC NoSubs
10 11 22 326 20  -18.8  0.222 -9.000 -9.000 -999.  251.     52.2  0.1810  0.72  1.00  2.60  165.0  15.0  281.6  2.0   0  0.00   76.  1011.    7 NAD-SFC NoSubs
10 11 22 326 21  -20.6  0.268 -9.000 -9.000 -999.  332.     83.9  0.1810  0.72  1.00  3.10  160.0  15.0  280.9  2.0   0  0.00   78.  1011.    8 NAD-SFC NoSubs
10 11 22 326 22  -12.7  0.224 -9.000 -9.000 -999.  256.     79.9  0.1810  0.72  1.00  2.60  155.0  15.0  280.2  2.0   0  0.00   81.  1011.   10 NAD-SFC NoSubs
10 11 22 326 23  -10.0  0.179 -9.000 -9.000 -999.  182.     51.6  0.1810  0.72  1.00  2.10  173.0  15.0  279.9  2.0   0  0.00   85.  1011.   10 NAD-SFC NoSubs
10 11 22 326 24   -5.0  0.124 -9.000 -9.000 -999.  106.     34.9  0.1810  0.72  1.00  1.50  174.0  15.0  279.8  2.0   0  0.00   89.  1011.   10 NAD-SFC NoSubs
10 11 23 327  1  -10.0  0.179 -9.000 -9.000 -999.  182.     51.6  0.1810  0.72  1.00  2.10  160.0  15.0  279.8  2.0   0  0.00   91.  1011.   10 NAD-SFC NoSubs
10 11 23 327  2  -10.0  0.179 -9.000 -9.000 -999.  182.     51.6  0.1810  0.72  1.00  2.10  151.0  15.0  279.8  2.0   0  0.00   92.  1011.   10 NAD-SFC NoSubs
10 11 23 327  3  -13.0  0.229 -9.000 -9.000 -999.  263.     83.2  0.1970  0.72  1.00  2.60  145.0  15.0  279.8  2.0   0  0.25   93.  1011.   10 NAD-SFC NoSubs
10 11 23 327  4  -15.6  0.275 -9.000 -9.000 -999.  347.    120.2  0.1970  0.72  1.00  3.10  141.0  15.0  279.9  2.0   0  0.51   95.  1010.   10 NAD-SFC NoSubs
10 11 23 327  5  -21.1  0.274 -9.000 -9.000 -999.  343.     87.2  0.1970  0.72  1.00  3.10  140.0  15.0  279.8  2.0   0  0.51  100.  1010.    8 NAD-SFC NoSubs
10 11 23 327  6  -15.6  0.275 -9.000 -9.000 -999.  347.    120.2  0.1970  0.72  1.00  3.10  142.0  15.0  279.9  2.0   0  0.25  100.  1010.   10 NAD-SFC NoSubs
10 11 23 327  7  -18.3  0.322 -9.000 -9.000 -999.  438.    164.2  0.1970  0.72  1.00  3.60  141.0  15.0  280.1  2.0   0  0.00   99.  1010.   10 NAD-SFC NoSubs
10 11 23 327  8   -5.1  0.330 -9.000 -9.000 -999.  456.    635.4  0.1970  0.72  0.46  3.60  145.0  15.0  280.4  2.0   0  0.00   94.  1009.    8 NAD-SFC NoSubs
10 11 23 327  9    5.2  0.429  0.205  0.005   59.  674. -1356.4  0.1970  0.72  0.29  4.60  141.0  15.0  281.4  2.0   0  0.00   86.  1008.   10 NAD-SFC NoSubs
10 11 23 327 10   15.0  0.435  0.399  0.005  151.  689.  -493.6  0.1970  0.72  0.24  4.60  144.0  15.0  282.8  2.0   0  0.00   77.  1008.   10 NAD-SFC NoSubs
10 11 23 327 11   21.5  0.439  0.529  0.005  246.  698.  -352.3  0.1970  0.72  0.22  4.60  136.0  15.0  283.8  2.0   0  0.00   73.  1007.   10 NAD-SFC NoSubs
10 11 23 327 12   24.5  0.306  0.599  0.005  313.  418.  -104.3  0.1810  0.72  0.21  3.10  163.0  15.0  284.9  2.0   0  0.25   70.  1005.   10 NAD-SFC NoSubs
10 11 23 327 13   23.7  0.132  0.623  0.005  366.  146.    -8.7  0.1900  0.72  0.21  1.00  194.0  15.0  285.2  2.0   0  0.51   74.  1005.   10 NAD-SFC NoSubs
10 11 23 327 14   19.0  0.131  0.599  0.005  406.  114.   -10.6  0.2090  0.72  0.22  1.00   62.0  15.0  284.8  2.0   0  1.02   83.  1004.   10 NAD-SFC NoSubs
10 11 23 327 15   10.8  0.167  0.506  0.005  429.  163.   -38.4  0.2090  0.72  0.26  1.50   62.0  15.0  284.2  2.0   0  1.02   89.  1004.   10 NAD-SFC NoSubs
10 11 23 327 16   17.6  0.130  0.611  0.005  464.  113.   -11.2  0.2090  0.72  0.35  1.00   73.0  15.0  284.0  2.0   0  0.51   91.  1003.    5 NAD-SFC NoSubs
10 11 23 327 17   -1.2  0.074 -9.000 -9.000 -999.   49.     29.3  0.1810  0.72  0.65  0.50  178.0  15.0  284.2  2.0   0  0.51   90.  1003.    5 NAD-SFC NoSubs
10 11 23 327 18  -19.7  0.219 -9.000 -9.000 -999.  246.     47.7  0.1750  0.72  1.00  2.60  259.0  15.0  284.2  2.0   0  0.25   88.  1004.    5 NAD-SFC NoSubs
10 11 23 327 19  -51.4  0.561 -9.000 -9.000 -999. 1009.    308.1  0.2720  0.72  1.00  5.70  305.0  15.0  283.1  2.0   0  0.00   92.  1005.    6 NAD-SFC NoSubs
10 11 23 327 20  -42.5  0.501 -9.000 -9.000 -999.  855.    265.1  0.2720  0.72  1.00  5.10  327.0  15.0  281.9  2.0   0  0.00   99.  1006.    7 NAD-SFC NoSubs
10 11 23 327 21  -39.1  0.459 -9.000 -9.000 -999.  750.    222.9  0.2930  0.72  1.00  4.60  343.0  15.0  281.4  2.0   0  0.00  100.  1007.    7 NAD-SFC NoSubs
10 11 23 327 22  -40.1  0.406 -9.000 -9.000 -999.  624.    150.3  0.2930  0.72  1.00  4.10  339.0  15.0  281.1  2.0   0  0.00   97.  1007.    5 NAD-SFC NoSubs
10 11 23 327 23  -41.4  0.397 -9.000 -9.000 -999.  601.    136.0  0.2720  0.72  1.00  4.10  326.0  15.0  280.1  2.0   0  0.00   95.  1008.    4 NAD-SFC NoSubs
10 11 23 327 24  -43.1  0.397 -9.000 -9.000 -999.  600.    130.4  0.2720  0.72  1.00  4.10  312.0  15.0  279.1  2.0   0  0.00   92.  1008.    3 NAD-SFC NoSubs
10 11 24 328  1  -37.7  0.347 -9.000 -9.000 -999.  491.     99.1  0.2720  0.72  1.00  3.60  309.0  15.0  278.2  2.0   0  0.00   89.  1008.    3 NAD-SFC NoSubs
10 11 24 328  2  -32.3  0.296 -9.000 -9.000 -999.  388.     72.3  0.2720  0.72  1.00  3.10  314.0  15.0  277.6  2.0   0  0.00   87.  1008.    3 NAD-SFC NoSubs
10 11 24 328  3  -32.4  0.296 -9.000 -9.000 -999.  387.     72.1  0.2720  0.72  1.00  3.10  316.0  15.0  277.1  2.0   0  0.00   86.  1009.    3 NAD-SFC NoSubs
10 11 24 328  4  -25.3  0.246 -9.000 -9.000 -999.  293.     52.7  0.2720  0.72  1.00  2.60  327.0  15.0  276.6  2.0   0  0.00   86.  1009.    3 NAD-SFC NoSubs
10 11 24 328  5  -26.3  0.251 -9.000 -9.000 -999.  302.     54.2  0.2930  0.72  1.00  2.60  331.0  15.0  276.0  2.0   0  0.00   86.  1009.    3 NAD-SFC NoSubs
10 11 24 328  6  -25.4  0.246 -9.000 -9.000 -999.  292.     52.6  0.2720  0.72  1.00  2.60  318.0  15.0  275.5  2.0   0  0.00   87.  1010.    3 NAD-SFC NoSubs
10 11 24 328  7  -16.3  0.195 -9.000 -9.000 -999.  207.     41.0  0.2720  0.72  1.00  2.10  306.0  15.0  275.0  2.0   0  0.00   87.  1010.    3 NAD-SFC NoSubs
10 11 24 328  8   -7.3  0.189 -9.000 -9.000 -999.  198.     83.4  0.2160  0.72  0.46  2.10  297.0  15.0  274.6  2.0   0  0.00   87.  1011.    3 NAD-SFC NoSubs
10 11 24 328  9   36.3  0.393  0.594  0.005  208.  592.   -151.3  0.2930  0.72  0.29  3.60  340.0  15.0  275.9  2.0   0  0.00   68.  1011.    3 NAD-SFC NoSubs
10 11 24 328 10   74.1  0.318  0.934  0.005  396.  433.    -39.0  0.2930  0.72  0.24  2.60  341.0  15.0  277.2  2.0   0  0.00   56.  1011.    3 NAD-SFC NoSubs
10 11 24 328 11   98.3  0.325  1.182  0.005  607.  445.    -31.5  0.2930  0.72  0.22  2.60  331.0  15.0  278.2  2.0   0  0.00   50.  1011.    2 NAD-SFC NoSubs
10 11 24 328 12  109.4  0.374  1.334  0.005  783.  550.    -43.2  0.2930  0.72  0.21  3.10  334.0  15.0  279.0  2.0   0  0.00   46.  1010.    2 NAD-SFC NoSubs
10 11 24 328 13  105.8  0.412  1.395  0.005  924.  635.    -59.6  0.2720  0.72  0.21  3.60  329.0  15.0  279.8  2.0   0  0.00   41.  1009.    2 NAD-SFC NoSubs
10 11 24 328 14   87.7  0.407  1.354  0.005 1020.  623.    -69.0  0.2720  0.72  0.22  3.60  326.0  15.0  280.4  2.0   0  0.00   37.  1009.    2 NAD-SFC NoSubs
10 11 24 328 15   55.7  0.402  1.185  0.006 1073.  612.   -104.9  0.2930  0.72  0.26  3.60  337.0  15.0  280.6  2.0   0  0.00   36.  1008.    2 NAD-SFC NoSubs
10 11 24 328 16   13.0  0.331  0.733  0.006 1085.  460.   -249.5  0.2930  0.72  0.36  3.10  348.0  15.0  280.4  2.0   0  0.00   39.  1008.    2 NAD-SFC NoSubs
10 11 24 328 17    2.3 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.65  0.00    0.0  15.0  279.8  2.0   0  0.00   44.  1008.    2 NAD-SFC NoSubs
10 11 24 328 18   -8.5  0.140 -9.000 -9.000 -999.  125.     28.9  0.2930  0.72  1.00  1.50  347.0  15.0  279.0  2.0   0  0.00   47.  1009.    2 NAD-SFC NoSubs
10 11 24 328 19   -4.2  0.103 -9.000 -9.000 -999.   80.     23.6  0.2930  0.72  1.00  1.00  337.0  15.0  278.2  2.0   0  0.00   51.  1010.    2 NAD-SFC NoSubs
10 11 24 328 20   -1.7  0.085 -9.000 -9.000 -999.   59.     32.4  0.2720  0.72  1.00  0.50  319.0  15.0  277.2  2.0   0  0.00   55.  1011.    2 NAD-SFC NoSubs
10 11 24 328 21   -1.7  0.085 -9.000 -9.000 -999.   60.     32.4  0.2720  0.72  1.00  0.50  306.0  15.0  276.2  2.0   0  0.00   60.  1011.    2 NAD-SFC NoSubs
10 11 24 328 22   -1.7  0.085 -9.000 -9.000 -999.   60.     32.5  0.2720  0.72  1.00  0.50  325.0  15.0  275.4  2.0   0  0.00   65.  1012.    2 NAD-SFC NoSubs
10 11 24 328 23   -1.6  0.083 -9.000 -9.000 -999.   57.     32.1  0.2160  0.72  1.00  0.50  295.0  15.0  274.6  2.0   0  0.00   68.  1013.    2 NAD-SFC NoSubs
10 11 24 328 24   -7.5  0.129 -9.000 -9.000 -999.  111.     25.8  0.2160  0.72  1.00  1.50  271.0  15.0  274.1  2.0   0  0.00   70.  1013.    2 NAD-SFC NoSubs
10 11 25 329  1  -23.3  0.230 -9.000 -9.000 -999.  265.     47.2  0.2160  0.72  1.00  2.60  285.0  15.0  273.6  2.0   0  0.00   70.  1013.    2 NAD-SFC NoSubs
10 11 25 329  2  -23.3  0.230 -9.000 -9.000 -999.  265.     47.2  0.2160  0.72  1.00  2.60  279.0  15.0  273.2  2.0   0  0.00   69.  1014.    2 NAD-SFC NoSubs
10 11 25 329  3  -14.9  0.182 -9.000 -9.000 -999.  187.     36.7  0.2160  0.72  1.00  2.10  280.0  15.0  272.9  2.0   0  0.00   68.  1014.    2 NAD-SFC NoSubs
10 11 25 329  4  -23.3  0.230 -9.000 -9.000 -999.  265.     47.1  0.2160  0.72  1.00  2.60  271.0  15.0  272.5  2.0   0  0.00   66.  1014.    2 NAD-SFC NoSubs
10 11 25 329  5  -30.2  0.263 -9.000 -9.000 -999.  323.     54.3  0.1750  0.72  1.00  3.10  256.0  15.0  272.1  2.0   0  0.00   64.  1015.    2 NAD-SFC NoSubs
10 11 25 329  6  -35.4  0.308 -9.000 -9.000 -999.  409.     74.3  0.1750  0.72  1.00  3.60  265.0  15.0  271.6  2.0   0  0.00   62.  1015.    2 NAD-SFC NoSubs
10 11 25 329  7  -37.5  0.325 -9.000 -9.000 -999.  444.     82.6  0.2160  0.72  1.00  3.60  271.0  15.0  271.1  2.0   0  0.00   61.  1016.    2 NAD-SFC NoSubs
10 11 25 329  8  -14.4  0.283 -9.000 -9.000 -999.  362.    141.8  0.2160  0.72  0.47  3.10  279.0  15.0  271.1  2.0   0  0.00   59.  1017.    2 NAD-SFC NoSubs
10 11 25 329  9   33.6  0.385  0.486  0.008  123.  574.   -154.3  0.2720  0.72  0.30  3.60  307.0  15.0  272.9  2.0   0  0.00   48.  1017.    2 NAD-SFC NoSubs
10 11 25 329 10   71.7  0.311  0.795  0.008  254.  420.    -38.2  0.2720  0.72  0.24  2.60  310.0  15.0  274.2  2.0   0  0.00   44.  1018.    2 NAD-SFC NoSubs
10 11 25 329 11   97.1  0.218  0.998  0.008  371.  248.     -9.7  0.2720  0.72  0.22  1.50  311.0  15.0  276.2  2.0   0  0.00   39.  1018.    2 NAD-SFC NoSubs
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10 11 25 329 12  108.3  0.221  1.141  0.008  498.  249.     -9.0  0.2720  0.72  0.21  1.50  322.0  15.0  277.4  2.0  0  0.00  37.  1017.  2 NAD-SFC NoSubs
10 11 25 329 13  104.8  0.223  1.203  0.008  602.  253.     -9.6  0.2930  0.72  0.21  1.50  334.0  15.0  278.5  2.0  0  0.00  37.  1016.  2 NAD-SFC NoSubs
10 11 25 329 14   86.8  0.215  1.173  0.008  675.  239.    -10.4  0.2720  0.72  0.22  1.50  329.0  15.0  279.2  2.0  0  0.00  37.  1016.  2 NAD-SFC NoSubs
10 11 25 329 15   55.0  0.264  1.028  0.008  716.  325.    -30.2  0.2930  0.72  0.26  2.10  353.0  15.0  279.8  2.0  0  0.00  37.  1016.  2 NAD-SFC NoSubs
10 11 25 329 16   12.5  0.236  0.630  0.008  726.  276.    -95.9  0.2940  0.72  0.36  2.10   15.0  15.0  279.8  2.0  0  0.00  40.  1015.  2 NAD-SFC NoSubs
10 11 25 329 17   -8.3  0.140 -9.000 -9.000 -999.  129.     29.7  0.2940  0.72  0.66  1.50    8.0  15.0  279.1  2.0  0  0.00  45.  1015.  2 NAD-SFC NoSubs
10 11 25 329 18   -1.7  0.085 -9.000 -9.000 -999.   60.     32.4  0.2720  0.72  1.00  0.50  324.0  15.0  278.1  2.0  0  0.00  49.  1016.  2 NAD-SFC NoSubs
10 11 25 329 19   -1.7  0.085 -9.000 -9.000 -999.   59.     32.4  0.2720  0.72  1.00  0.50  320.0  15.0  277.1  2.0  0  0.00  54.  1016.  2 NAD-SFC NoSubs
10 11 25 329 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  276.2  2.0  0  0.00  59.  1016.  2 NAD-SFC NoSubs
10 11 25 329 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  275.4  2.0  0  0.00  63.  1016.  2 NAD-SFC NoSubs
10 11 25 329 22   -1.8  0.086 -9.000 -9.000 -999.   61.     32.6  0.2940  0.72  1.00  0.50   24.0  15.0  274.6  2.0  0  0.00  67.  1016.  2 NAD-SFC NoSubs
10 11 25 329 23   -1.8  0.086 -9.000 -9.000 -999.   61.     32.7  0.2930  0.72  1.00  0.50  347.0  15.0  274.0  2.0  0  0.00  70.  1017.  2 NAD-SFC NoSubs
10 11 25 329 24   -1.8  0.086 -9.000 -9.000 -999.   61.     32.7  0.2930  0.72  1.00  0.50  351.0  15.0  273.5  2.0  0  0.00  72.  1016.  2 NAD-SFC NoSubs
10 11 26 330  1   -4.3  0.104 -9.000 -9.000 -999.   80.     23.7  0.2930  0.72  1.00  1.00  346.0  15.0  273.1  2.0  0  0.00  74.  1016.  2 NAD-SFC NoSubs
10 11 26 330  2   -8.7  0.140 -9.000 -9.000 -999.  126.     28.6  0.2930  0.72  1.00  1.50  353.0  15.0  272.8  2.0  0  0.00  76.  1016.  2 NAD-SFC NoSubs
10 11 26 330  3   -4.3  0.104 -9.000 -9.000 -999.   81.     23.7  0.2930  0.72  1.00  1.00  334.0  15.0  272.2  2.0  0  0.00  78.  1016.  2 NAD-SFC NoSubs
10 11 26 330  4   -4.2  0.103 -9.000 -9.000 -999.   79.     23.4  0.2720  0.72  1.00  1.00  312.0  15.0  271.9  2.0  0  0.00  79.  1016.  2 NAD-SFC NoSubs
10 11 26 330  5   -4.2  0.103 -9.000 -9.000 -999.   79.     23.4  0.2720  0.72  1.00  1.00  307.0  15.0  271.6  2.0  0  0.00  79.  1016.  2 NAD-SFC NoSubs
10 11 26 330  6   -4.2  0.103 -9.000 -9.000 -999.   79.     23.4  0.2720  0.72  1.00  1.00  316.0  15.0  271.4  2.0  0  0.00  79.  1016.  2 NAD-SFC NoSubs
10 11 26 330  7   -1.8  0.086 -9.000 -9.000 -999.   60.     32.7  0.2720  0.72  1.00  0.50  313.0  15.0  271.0  2.0  0  0.00  79.  1016.  2 NAD-SFC NoSubs
10 11 26 330  8   15.4 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.47  0.00    0.0  15.0  270.8  2.0  0  0.00  78.  1016.  2 NAD-SFC NoSubs
10 11 26 330  9   32.7 -9.000 -9.000 -9.000  102. -999. -99999.0  0.2235  0.72  0.30  0.00    0.0  15.0  273.0  2.0  0  0.00  65.  1016.  2 NAD-SFC NoSubs
10 11 26 330 10   70.8  0.161  0.740  0.014  207.  156.     -5.4  0.2720  0.72  0.24  1.00  305.0  15.0  275.6  2.0  0  0.00  52.  1016.  2 NAD-SFC NoSubs
10 11 26 330 11   96.4  0.110  0.945  0.014  317.   88.     -1.2  0.2720  0.72  0.22  0.50  321.0  15.0  277.8  2.0  0  0.00  47.  1016.  2 NAD-SFC NoSubs
10 11 26 330 12  107.7  0.114  1.064  0.013  405.   92.     -1.2  0.2930  0.72  0.21  0.50  331.0  15.0  279.5  2.0  0  0.00  45.  1014.  2 NAD-SFC NoSubs
10 11 26 330 13  104.5 -9.000 -9.000 -9.000  467. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  281.2  2.0  0  0.00  40.  1013.  2 NAD-SFC NoSubs
10 11 26 330 14   86.7  0.111  1.072  0.012  513.   88.     -1.4  0.2930  0.72  0.23  0.50  342.0  15.0  282.6  2.0  0  0.00  34.  1012.  2 NAD-SFC NoSubs
10 11 26 330 15   55.1  0.159  0.938  0.011  540.  153.     -6.6  0.2930  0.72  0.26  1.00  345.0  15.0  283.1  2.0  0  0.00  32.  1012.  2 NAD-SFC NoSubs
10 11 26 330 16   12.9  0.136  0.581  0.011  547.  120.    -17.4  0.2940  0.72  0.36  1.00    5.0  15.0  284.1  2.0  0  0.00  32.  1011.  2 NAD-SFC NoSubs
10 11 26 330 17   -1.6  0.083 -9.000 -9.000 -999.   58.     31.8  0.2940  0.72  0.66  0.50   14.0  15.0  283.2  2.0  0  0.00  37.  1011.  2 NAD-SFC NoSubs
10 11 26 330 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  281.8  2.0  0  0.00  42.  1011.  2 NAD-SFC NoSubs
10 11 26 330 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  280.5  2.0  0  0.00  47.  1010.  2 NAD-SFC NoSubs
10 11 26 330 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  279.5  2.0  0  0.00  52.  1010.  2 NAD-SFC NoSubs
10 11 26 330 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  278.5  2.0  0  0.00  56.  1011.  2 NAD-SFC NoSubs
10 11 26 330 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  277.8  2.0  0  0.00  59.  1011.  2 NAD-SFC NoSubs
10 11 26 330 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  277.2  2.0  0  0.00  61.  1011.  2 NAD-SFC NoSubs
10 11 26 330 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  276.6  2.0  0  0.00  64.  1010.  2 NAD-SFC NoSubs
10 11 27 331  1   -1.6  0.083 -9.000 -9.000 -999.   57.     32.0  0.2130  0.72  1.00  0.50   99.0  15.0  275.9  2.0  0  0.00  67.  1010.  2 NAD-SFC NoSubs
10 11 27 331  2   -1.6  0.083 -9.000 -9.000 -999.   57.     32.0  0.2130  0.72  1.00  0.50  119.0  15.0  275.5  2.0  0  0.00  69.  1010.  2 NAD-SFC NoSubs
10 11 27 331  3   -1.6  0.082 -9.000 -9.000 -999.   56.     31.8  0.1970  0.72  1.00  0.50  134.0  15.0  275.2  2.0  0  0.00  70.  1009.  2 NAD-SFC NoSubs
10 11 27 331  4   -3.7  0.097 -9.000 -9.000 -999.   72.     22.2  0.1970  0.72  1.00  1.00  131.0  15.0  275.0  2.0  0  0.00  69.  1008.  2 NAD-SFC NoSubs
10 11 27 331  5   -3.7  0.097 -9.000 -9.000 -999.   72.     22.2  0.1970  0.72  1.00  1.00  129.0  15.0  275.0  2.0  0  0.00  68.  1008.  2 NAD-SFC NoSubs
10 11 27 331  6   -3.7  0.097 -9.000 -9.000 -999.   72.     22.2  0.1970  0.72  1.00  1.00  132.0  15.0  275.2  2.0  0  0.00  66.  1007.  2 NAD-SFC NoSubs
10 11 27 331  7   -7.2  0.126 -9.000 -9.000 -999.  108.     25.1  0.1970  0.72  1.00  1.50  123.0  15.0  275.5  2.0  0  0.00  64.  1007.  2 NAD-SFC NoSubs
10 11 27 331  8   -5.1  0.127 -9.000 -9.000 -999.  109.     36.7  0.1970  0.72  0.48  1.50  122.0  15.0  276.0  2.0  0  0.00  62.  1007.  2 NAD-SFC NoSubs
10 11 27 331  9   33.5  0.140  0.409  0.010   73.  126.     -7.4  0.2130  0.72  0.30  1.00  116.0  15.0  276.5  2.0  0  0.00  60.  1007.  3 NAD-SFC NoSubs
10 11 27 331 10   71.2  0.104  0.713  0.009  182.   80.     -1.4  0.2470  0.72  0.24  0.50   52.0  15.0  277.2  2.0  0  0.00  62.  1007.  3 NAD-SFC NoSubs
10 11 27 331 11   87.8  0.111  0.917  0.009  316.   89.     -1.4  0.2940  0.72  0.22  0.50   25.0  15.0  278.4  2.0  0  0.00  61.  1007.  6 NAD-SFC NoSubs
10 11 27 331 12   22.5  0.092  0.600  0.009  345.   67.     -3.1  0.2930  0.72  0.21  0.50  347.0  15.0  279.0  2.0  0  0.25  60.  1006. 10 NAD-SFC NoSubs
10 11 27 331 13   21.6  0.084  0.606  0.009  369.   59.     -2.5  0.1970  0.72  0.21  0.50  138.0  15.0  278.8  2.0  0  0.51  66.  1006. 10 NAD-SFC NoSubs
10 11 27 331 14   17.1  0.217  0.571  0.009  389.  243.    -53.7  0.1810  0.72  0.23  2.10  151.0  15.0  279.0  2.0  0  0.00  70.  1005. 10 NAD-SFC NoSubs
10 11 27 331 15    9.2  0.256  0.469  0.009  400.  310.   -162.1  0.1970  0.72  0.26  2.60  148.0  15.0  279.2  2.0  0  0.00  72.  1004. 10 NAD-SFC NoSubs
10 11 27 331 16   -1.8  0.190 -9.000 -9.000 -999.  201.    339.5  0.1970  0.72  0.36  2.10  124.0  15.0  279.2  2.0  0  0.00  75.  1004. 10 NAD-SFC NoSubs
10 11 27 331 17   -5.2  0.130 -9.000 -9.000 -999.  113.     37.5  0.2130  0.72  0.66  1.50   98.0  15.0  279.2  2.0  0  0.00  77.  1003. 10 NAD-SFC NoSubs
10 11 27 331 18   -5.3  0.129 -9.000 -9.000 -999.  111.     36.8  0.2090  0.72  1.00  1.50   82.0  15.0  279.2  2.0  0  0.25  77.  1004. 10 NAD-SFC NoSubs
10 11 27 331 19   -6.2  0.126 -9.000 -9.000 -999.  107.     28.5  0.1970  0.72  1.00  1.50  125.0  15.0  279.1  2.0  0  0.25  80.  1004.  7 NAD-SFC NoSubs
10 11 27 331 20  -13.7  0.179 -9.000 -9.000 -999.  181.     37.3  0.1970  0.72  1.00  2.10  130.0  15.0  279.1  2.0  0  0.00  85.  1004.  4 NAD-SFC NoSubs
10 11 27 331 21   -6.6  0.123 -9.000 -9.000 -999.  105.     25.3  0.1810  0.72  1.00  1.50  162.0  15.0  279.5  2.0  0  0.00  89.  1004.  4 NAD-SFC NoSubs
10 11 27 331 22   -3.3  0.093 -9.000 -9.000 -999.   68.     22.0  0.1950  0.72  1.00  1.00  215.0  15.0  279.6  2.0  0  0.00  92.  1005.  5 NAD-SFC NoSubs
10 11 27 331 23   -6.5  0.125 -9.000 -9.000 -999.  106.     27.3  0.1950  0.72  1.00  1.50  238.0  15.0  279.2  2.0  0  0.00  95.  1005.  6 NAD-SFC NoSubs
10 11 27 331 24  -32.4  0.326 -9.000 -9.000 -999.  446.     95.7  0.2160  0.72  1.00  3.60  285.0  15.0  278.6  2.0  0  0.00  96.  1005.  5 NAD-SFC NoSubs
10 11 28 332  1  -46.9  0.448 -9.000 -9.000 -999.  718.    171.3  0.2720  0.72  1.00  4.60  304.0  15.0  277.8  2.0  0  0.00  96.  1006.  4 NAD-SFC NoSubs
10 11 28 332  2  -48.2  0.457 -9.000 -9.000 -999.  742.    178.3  0.2930  0.72  1.00  4.60  335.0  15.0  276.8  2.0  0  0.00 100.  1006.  4 NAD-SFC NoSubs
10 11 28 332  3  -45.9  0.458 -9.000 -9.000 -999.  744.    187.8  0.2930  0.72  1.00  4.60  339.0  15.0  276.8  2.0  0  0.00 100.  1007.  5 NAD-SFC NoSubs
10 11 28 332  4  -31.2  0.297 -9.000 -9.000 -999.  408.     75.0  0.2720  0.72  1.00  3.10  327.0  15.0  277.0  2.0  0  0.00 100.  1008.  4 NAD-SFC NoSubs
10 11 28 332  5  -14.0  0.183 -9.000 -9.000 -999.  197.     39.6  0.2160  0.72  1.00  2.10  294.0  15.0  277.2  2.0  0  0.00 100.  1008.  5 NAD-SFC NoSubs
10 11 28 332  6  -32.6  0.326 -9.000 -9.000 -999.  446.     95.2  0.2160  0.72  1.00  3.60  292.0  15.0  277.2  2.0  0  0.00 100.  1009.  5 NAD-SFC NoSubs
10 11 28 332  7  -35.6  0.325 -9.000 -9.000 -999.  445.     86.9  0.2160  0.72  1.00  3.60  297.0  15.0  277.4  2.0  0  0.00 100.  1010.  3 NAD-SFC NoSubs
10 11 28 332  8  -12.8  0.251 -9.000 -9.000 -999.  304.    111.3  0.2720  0.72  0.48  2.60  300.0  15.0  277.6  2.0  0  0.00 100.  1010.  3 NAD-SFC NoSubs
10 11 28 332  9   32.7  0.339  0.553  0.005  186.  473.   -107.2  0.2720  0.72  0.30  3.10  319.0  15.0  277.6  2.0  0  0.00  98.  1011.  3 NAD-SFC NoSubs
10 11 28 332 10   70.3  0.311  0.819  0.005  282.  417.    -38.6  0.2720  0.72  0.24  2.60  311.0  15.0  277.5  2.0  0  0.00  99.  1011.  3 NAD-SFC NoSubs
10 11 28 332 11   95.4  0.319  0.991  0.005  368.  432.    -30.6  0.2720  0.72  0.22  2.60  314.0  15.0  277.2  2.0  0  0.00  99.  1012.  3 NAD-SFC NoSubs
10 11 28 332 12  106.6  0.277  1.270  0.005  693.  350.    -17.9  0.2720  0.72  0.21  2.10  311.0  15.0  277.6  2.0  0  0.00  95.  1011.  3 NAD-SFC NoSubs
10 11 28 332 13  103.4  0.223  1.308  0.005  780.  254.     -9.7  0.2930  0.72  0.21  1.50  349.0  15.0  278.9  2.0  0  0.00  81.  1011.  3 NAD-SFC NoSubs
10 11 28 332 14   86.1  0.219  1.264  0.005  847.  245.    -11.0  0.2940  0.72  0.23  1.50    7.0  15.0  280.8  2.0  0  0.00  66.  1011.  3 NAD-SFC NoSubs
10 11 28 332 15   55.4  0.264  1.109  0.005  888.  326.    -30.0  0.2940  0.72  0.26  2.10   10.0  15.0  282.0  2.0  0  0.00  57.  1010.  4 NAD-SFC NoSubs
10 11 28 332 16   14.6  0.132  0.714  0.005  898.  127.    -14.2  0.2470  0.72  0.36  1.00   39.0  15.0  282.2  2.0  0  0.00  58.  1010.  4 NAD-SFC NoSubs
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10 11 28 332 17   -3.3  0.093 -9.000 -9.000 -999.   69.     22.0  0.1970  0.72  0.67  1.00  140.0  15.0  281.8  2.0   0  0.00   61.  1010.   4 NAD-SFC NoSubs
10 11 28 332 18   -3.4  0.093 -9.000 -9.000 -999.   68.     21.8  0.1810  0.72  1.00  1.00  155.0  15.0  280.8  2.0   0  0.00   66.  1011.   4 NAD-SFC NoSubs
10 11 28 332 19   -6.7  0.123 -9.000 -9.000 -999.  104.     25.3  0.1810  0.72  1.00  1.50  154.0  15.0  279.5  2.0   0  0.00   72.  1012.   4 NAD-SFC NoSubs
10 11 28 332 20  -21.9  0.225 -9.000 -9.000 -999.  256.     46.8  0.1970  0.72  1.00  2.60  146.0  15.0  278.5  2.0   0  0.00   78.  1012.   3 NAD-SFC NoSubs
10 11 28 332 21  -13.6  0.174 -9.000 -9.000 -999.  175.     35.3  0.1810  0.72  1.00  2.10  159.0  15.0  277.8  2.0   0  0.00   82.  1013.   3 NAD-SFC NoSubs
10 11 28 332 22   -6.9  0.124 -9.000 -9.000 -999.  105.     24.8  0.1810  0.72  1.00  1.50  169.0  15.0  277.1  2.0   0  0.00   84.  1013.   3 NAD-SFC NoSubs
10 11 28 332 23   -3.6  0.095 -9.000 -9.000 -999.   71.     22.0  0.1900  0.72  1.00  1.00  188.0  15.0  276.6  2.0   0  0.00   83.  1014.   3 NAD-SFC NoSubs
10 11 28 332 24   -3.6  0.096 -9.000 -9.000 -999.   71.     22.1  0.1950  0.72  1.00  1.00  216.0  15.0  276.2  2.0   0  0.00   83.  1014.   3 NAD-SFC NoSubs
10 11 29 333  1   -6.9  0.123 -9.000 -9.000 -999.  103.     24.2  0.1750  0.72  1.00  1.50  250.0  15.0  275.8  2.0   0  0.00   83.  1014.   2 NAD-SFC NoSubs
10 11 29 333  2   -7.5  0.129 -9.000 -9.000 -999.  111.     25.8  0.2160  0.72  1.00  1.50  272.0  15.0  275.2  2.0   0  0.00   83.  1015.   2 NAD-SFC NoSubs
10 11 29 333  3  -14.9  0.182 -9.000 -9.000 -999.  187.     36.8  0.2160  0.72  1.00  2.10  276.0  15.0  274.5  2.0   0  0.00   85.  1015.   2 NAD-SFC NoSubs
10 11 29 333  4  -23.3  0.230 -9.000 -9.000 -999.  265.     47.2  0.2160  0.72  1.00  2.60  286.0  15.0  274.0  2.0   0  0.00   85.  1015.   2 NAD-SFC NoSubs
10 11 29 333  5  -23.3  0.230 -9.000 -9.000 -999.  265.     47.2  0.2160  0.72  1.00  2.60  288.0  15.0  273.6  2.0   0  0.00   84.  1016.   2 NAD-SFC NoSubs
10 11 29 333  6  -23.4  0.230 -9.000 -9.000 -999.  265.     47.2  0.2160  0.72  1.00  2.60  295.0  15.0  273.2  2.0   0  0.00   82.  1017.   2 NAD-SFC NoSubs
10 11 29 333  7  -23.4  0.230 -9.000 -9.000 -999.  265.     47.1  0.2160  0.72  1.00  2.60  280.0  15.0  272.9  2.0   0  0.00   80.  1017.   2 NAD-SFC NoSubs
10 11 29 333  8   -5.6  0.130 -9.000 -9.000 -999.  117.     35.3  0.2160  0.72  0.49  1.50  284.0  15.0  272.8  2.0   0  0.00   79.  1018.   2 NAD-SFC NoSubs
10 11 29 333  9   30.0  0.146  0.442  0.009  104.  134.     -9.4  0.2720  0.72  0.30  1.00  323.0  15.0  274.5  2.0   0  0.00   68.  1018.   2 NAD-SFC NoSubs
10 11 29 333 10   68.1 -9.000 -9.000 -9.000  253. -999. -99999.0  0.2235  0.72  0.24  0.00    0.0  15.0  276.1  2.0   0  0.00   61.  1019.   2 NAD-SFC NoSubs
10 11 29 333 11   93.8 -9.000 -9.000 -9.000  372. -999. -99999.0  0.2235  0.72  0.22  0.00    0.0  15.0  277.8  2.0   0  0.00   54.  1019.   2 NAD-SFC NoSubs
10 11 29 333 12  105.3  0.101  1.132  0.007  501.   77.     -1.0  0.1750  0.72  0.21  0.50  254.0  15.0  279.0  2.0   0  0.00   50.  1018.   2 NAD-SFC NoSubs
10 11 29 333 13  102.2  0.105  1.194  0.007  606.   82.     -1.0  0.2160  0.72  0.21  0.50  282.0  15.0  280.2  2.0   0  0.00   46.  1018.   2 NAD-SFC NoSubs
10 11 29 333 14   84.6  0.165  1.166  0.006  681.  160.     -4.8  0.2720  0.72  0.23  1.00  307.0  15.0  281.2  2.0   0  0.00   42.  1018.   2 NAD-SFC NoSubs
10 11 29 333 15   53.2  0.207  1.021  0.006  725.  226.    -15.1  0.2930  0.72  0.26  1.50  335.0  15.0  281.8  2.0   0  0.00   40.  1017.   2 NAD-SFC NoSubs
10 11 29 333 16   11.2  0.235  0.610  0.006  733.  273.   -104.4  0.2930  0.72  0.36  2.10  353.0  15.0  281.6  2.0   0  0.00   44.  1017.   2 NAD-SFC NoSubs
10 11 29 333 17  -16.8  0.200 -9.000 -9.000 -999.  215.     43.3  0.2940  0.72  0.67  2.10   13.0  15.0  280.9  2.0   0  0.00   47.  1017.   2 NAD-SFC NoSubs
10 11 29 333 18   -4.2  0.103 -9.000 -9.000 -999.   84.     23.7  0.2940  0.72  1.00  1.00   26.0  15.0  279.9  2.0   0  0.00   52.  1018.   2 NAD-SFC NoSubs
10 11 29 333 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  278.8  2.0   0  0.00   58.  1018.   2 NAD-SFC NoSubs
10 11 29 333 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  277.8  2.0   0  0.00   64.  1018.   2 NAD-SFC NoSubs
10 11 29 333 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  276.8  2.0   0  0.00   68.  1019.   2 NAD-SFC NoSubs
10 11 29 333 22   -1.7  0.084 -9.000 -9.000 -999.   59.     32.3  0.2470  0.72  1.00  0.50   38.0  15.0  276.1  2.0   0  0.00   72.  1019.   2 NAD-SFC NoSubs
10 11 29 333 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  275.6  2.0   0  0.00   74.  1020.   2 NAD-SFC NoSubs
10 11 29 333 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  275.1  2.0   0  0.00   76.  1020.   2 NAD-SFC NoSubs
10 11 30 334  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  274.8  2.0   0  0.00   78.  1020.   2 NAD-SFC NoSubs
10 11 30 334  2   -1.8  0.086 -9.000 -9.000 -999.   61.     32.6  0.2930  0.72  1.00  0.50  352.0  15.0  274.4  2.0   0  0.00   79.  1020.   2 NAD-SFC NoSubs
10 11 30 334  3   -1.8  0.086 -9.000 -9.000 -999.   61.     32.7  0.2930  0.72  1.00  0.50  342.0  15.0  274.0  2.0   0  0.00   80.  1020.   2 NAD-SFC NoSubs
10 11 30 334  4   -4.3  0.104 -9.000 -9.000 -999.   80.     23.6  0.2930  0.72  1.00  1.00  330.0  15.0  273.8  2.0   0  0.00   80.  1020.   2 NAD-SFC NoSubs
10 11 30 334  5   -4.2  0.102 -9.000 -9.000 -999.   79.     23.4  0.2720  0.72  1.00  1.00  328.0  15.0  273.4  2.0   0  0.00   81.  1020.   2 NAD-SFC NoSubs
10 11 30 334  6   -4.2  0.102 -9.000 -9.000 -999.   79.     23.4  0.2720  0.72  1.00  1.00  317.0  15.0  273.1  2.0   0  0.00   82.  1020.   2 NAD-SFC NoSubs
10 11 30 334  7   -4.2  0.102 -9.000 -9.000 -999.   79.     23.4  0.2720  0.72  1.00  1.00  311.0  15.0  272.9  2.0   0  0.00   82.  1021.   2 NAD-SFC NoSubs
10 11 30 334  8   -2.9  0.093 -9.000 -9.000 -999.   68.     25.3  0.2720  0.72  0.49  1.00  304.0  15.0  272.9  2.0   0  0.00   81.  1021.   2 NAD-SFC NoSubs
10 11 30 334  9   29.0  0.145  0.382  0.010   69.  133.     -9.6  0.2720  0.72  0.31  1.00  306.0  15.0  273.8  2.0   0  0.00   75.  1021.   2 NAD-SFC NoSubs
10 11 30 334 10   67.3  0.209  0.709  0.010  193.  229.    -12.3  0.2720  0.72  0.24  1.50  308.0  15.0  276.4  2.0   0  0.00   62.  1021.   2 NAD-SFC NoSubs
10 11 30 334 11   93.0  0.217  0.955  0.010  341.  242.    -10.0  0.2720  0.72  0.22  1.50  316.0  15.0  277.9  2.0   0  0.00   58.  1021.   2 NAD-SFC NoSubs
10 11 30 334 12  104.6  0.223  1.090  0.010  451.  253.     -9.7  0.2930  0.72  0.21  1.50  335.0  15.0  279.4  2.0   0  0.00   53.  1020.   2 NAD-SFC NoSubs
10 11 30 334 13  101.5  0.219  1.141  0.010  533.  246.     -9.4  0.2720  0.72  0.21  1.50  328.0  15.0  280.2  2.0   0  0.00   51.  1019.   2 NAD-SFC NoSubs
10 11 30 334 14   83.9  0.274  1.110  0.010  592.  345.    -22.4  0.2930  0.72  0.23  2.10  332.0  15.0  280.8  2.0   0  0.00   51.  1019.   2 NAD-SFC NoSubs
10 11 30 334 15   52.6  0.258  0.968  0.010  626.  315.    -29.8  0.2720  0.72  0.26  2.10  328.0  15.0  280.6  2.0   0  0.00   52.  1018.   2 NAD-SFC NoSubs
10 11 30 334 16   10.7  0.176  0.571  0.010  632.  180.    -46.4  0.2720  0.72  0.36  1.50  326.0  15.0  280.2  2.0   0  0.00   56.  1018.   2 NAD-SFC NoSubs
10 11 30 334 17   -4.1  0.102 -9.000 -9.000 -999.   80.     23.6  0.2930  0.72  0.67  1.00  344.0  15.0  279.8  2.0   0  0.00   58.  1017.   2 NAD-SFC NoSubs
10 11 30 334 18   -1.7  0.085 -9.000 -9.000 -999.   59.     32.3  0.2720  0.72  1.00  0.50  326.0  15.0  279.2  2.0   0  0.00   60.  1017.   2 NAD-SFC NoSubs
10 11 30 334 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  278.8  2.0   0  0.00   63.  1017.   2 NAD-SFC NoSubs
10 11 30 334 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  278.2  2.0   0  0.00   66.  1017.   2 NAD-SFC NoSubs
10 11 30 334 21   -1.8  0.086 -9.000 -9.000 -999.   60.     32.5  0.2940  0.72  1.00  0.50   11.0  15.0  277.8  2.0   0  0.00   68.  1016.   2 NAD-SFC NoSubs
10 11 30 334 22   -1.8  0.086 -9.000 -9.000 -999.   60.     32.5  0.2940  0.72  1.00  0.50   14.0  15.0  277.4  2.0   0  0.00   70.  1016.   2 NAD-SFC NoSubs
10 11 30 334 23   -1.8  0.086 -9.000 -9.000 -999.   60.     32.5  0.2940  0.72  1.00  0.50   10.0  15.0  276.9  2.0   0  0.00   71.  1016.   2 NAD-SFC NoSubs
10 11 30 334 24   -1.8  0.086 -9.000 -9.000 -999.   60.     32.6  0.2940  0.72  1.00  0.50    4.0  15.0  276.4  2.0   0  0.00   73.  1016.   2 NAD-SFC NoSubs
10 12  1 335  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  275.9  2.0   0  0.00   75.  1016.   2 NAD-SFC NoSubs
10 12  1 335  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  275.4  2.0   0  0.00   77.  1015.   2 NAD-SFC NoSubs
10 12  1 335  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  274.9  2.0   0  0.00   79.  1015.   2 NAD-SFC NoSubs
10 12  1 335  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  274.4  2.0   0  0.00   81.  1015.   2 NAD-SFC NoSubs
10 12  1 335  5   -1.1  0.068 -9.000 -9.000 -999.   43.     27.2  0.0310  0.72  1.00  0.50   91.0  15.0  274.0  2.0   0  0.00   82.  1015.   2 NAD-SFC NoSubs
10 12  1 335  6   -1.1  0.070 -9.000 -9.000 -999.   44.     27.8  0.0400  0.72  1.00  0.50   89.0  15.0  273.8  2.0   0  0.00   83.  1014.   2 NAD-SFC NoSubs
10 12  1 335  7   -1.1  0.068 -9.000 -9.000 -999.   43.     27.2  0.0310  0.72  1.00  0.50   95.0  15.0  273.4  2.0   0  0.00   84.  1014.   2 NAD-SFC NoSubs
10 12  1 335  8   -0.6  0.054 -9.000 -9.000 -999.   30.     22.5  0.0310  0.72  0.49  0.50   90.0  15.0  273.2  2.0   0  0.00   83.  1014.   2 NAD-SFC NoSubs
10 12  1 335  9   29.1 -9.000 -9.000 -9.000   71. -999. -99999.0  0.0471  0.72  0.30  0.00    0.0  15.0  275.1  2.0   0  0.00   78.  1014.   2 NAD-SFC NoSubs
10 12  1 335 10   68.0 -9.000 -9.000 -9.000  174. -999. -99999.0  0.0471  0.72  0.23  0.00    0.0  15.0  278.9  2.0   0  0.00   55.  1014.   2 NAD-SFC NoSubs
10 12  1 335 11   94.3 -9.000 -9.000 -9.000  270. -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0  281.2  2.0   0  0.00   45.  1013.   2 NAD-SFC NoSubs
10 12  1 335 12  106.2 -9.000 -9.000 -9.000  349. -999. -99999.0  0.0471  0.72  0.20  0.00    0.0  15.0  282.9  2.0   0  0.00   41.  1012.   2 NAD-SFC NoSubs
10 12  1 335 13  103.3 -9.000 -9.000 -9.000  424. -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0  284.2  2.0   0  0.00   39.  1011.   2 NAD-SFC NoSubs
10 12  1 335 14   85.8 -9.000 -9.000 -9.000  494. -999. -99999.0  0.0471  0.72  0.22  0.00    0.0  15.0  285.2  2.0   0  0.00   36.  1010.   2 NAD-SFC NoSubs
10 12  1 335 15   54.3 -9.000 -9.000 -9.000  533. -999. -99999.0  0.0471  0.72  0.25  0.00    0.0  15.0  285.8  2.0   0  0.00   35.  1009.   2 NAD-SFC NoSubs
10 12  1 335 16   12.5 -9.000 -9.000 -9.000  544. -999. -99999.0  0.0471  0.72  0.36  0.00    0.0  15.0  287.2  2.0   0  0.00   37.  1008.   2 NAD-SFC NoSubs
10 12  1 335 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.67  0.00    0.0  15.0  286.5  2.0   0  0.00   42.  1007.   2 NAD-SFC NoSubs
10 12  1 335 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  285.2  2.0   0  0.00   47.  1007.   2 NAD-SFC NoSubs
10 12  1 335 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  284.1  2.0   0  0.00   53.  1007.   2 NAD-SFC NoSubs
10 12  1 335 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  283.1  2.0   0  0.00   58.  1007.   2 NAD-SFC NoSubs
10 12  1 335 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.2  2.0   0  0.00   62.  1008.   2 NAD-SFC NoSubs
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10 12   1 335 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471  0.72 1.00  0.00   0.0  15.0 281.6  2.0   0  0.00  65. 1008.   2 NAD-SFC NoSubs
10 12   1 335 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471  0.72 1.00  0.00   0.0  15.0 281.1  2.0   0  0.00  67. 1008.   2 NAD-SFC NoSubs
10 12   1 335 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471  0.72 1.00  0.00   0.0  15.0 280.8  2.0   0  0.00  68. 1008.   2 NAD-SFC NoSubs
10 12   2 336  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471  0.72 1.00  0.00   0.0  15.0 280.2  2.0   0  0.00  69. 1008.   2 NAD-SFC NoSubs
10 12   2 336  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471  0.72 1.00  0.00   0.0  15.0 279.9  2.0   0  0.00  70. 1008.   2 NAD-SFC NoSubs
10 12   2 336  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471  0.72 1.00  0.00   0.0  15.0 279.6  2.0   0  0.00  70. 1008.   2 NAD-SFC NoSubs
10 12   2 336  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471  0.72 1.00  0.00   0.0  15.0 279.4  2.0   0  0.00  70. 1008.   2 NAD-SFC NoSubs
10 12   2 336  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471  0.72 1.00  0.00   0.0  15.0 279.5  2.0   0  0.00  69. 1007.   2 NAD-SFC NoSubs
10 12   2 336  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471  0.72 1.00  0.00   0.0  15.0 279.6  2.0   0  0.00  68. 1007.   2 NAD-SFC NoSubs
10 12   2 336  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471  0.72 1.00  0.00   0.0  15.0 279.8  2.0   0  0.00  68. 1007.   2 NAD-SFC NoSubs
10 12   2 336  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471  0.72 0.50  0.00   0.0  15.0 279.8  2.0   0  0.00  68. 1007.   2 NAD-SFC NoSubs
10 12   2 336  9   28.9 -9.000 -9.000 -9.000   75. -999. -99999.0 0.0471  0.72 0.30  0.00   0.0  15.0 280.1  2.0   0  0.00  68. 1007.   2 NAD-SFC NoSubs
10 12   2 336 10   67.6  0.085  0.719  0.013  197.   59.     -1.0 0.0960  0.72 0.23  0.50   1.0  15.0 281.6  2.0   0  0.00  59. 1007.   2 NAD-SFC NoSubs
10 12   2 336 11   93.9  0.088  0.946  0.013  324.   63.     -1.0 0.0950  0.72 0.21  0.50 345.0  15.0 283.1  2.0   0  0.00  50. 1007.   2 NAD-SFC NoSubs
10 12   2 336 12  105.7  0.090  1.073  0.012  419.   65.     -1.0 0.0950  0.72 0.20  0.50 344.0  15.0 284.0  2.0   0  0.00  50. 1006.   2 NAD-SFC NoSubs
10 12   2 336 13  102.9  0.087  1.118  0.012  488.   61.     -1.0 0.0800  0.72 0.21  0.50 328.0  15.0 284.9  2.0   0  0.00  49. 1006.   2 NAD-SFC NoSubs
10 12   2 336 14   85.4  0.134  1.086  0.012  539.  117.     -2.5 0.0950  0.72 0.22  1.00 344.0  15.0 285.5  2.0   0  0.00  49. 1005.   2 NAD-SFC NoSubs
10 12   2 336 15   53.9  0.166  0.949  0.011  568.  162.     -7.6 0.0960  0.72 0.25  1.50   4.0  15.0 285.6  2.0   0  0.00  52. 1005.   2 NAD-SFC NoSubs
10 12   2 336 16   11.7  0.144  0.573  0.011  574.  132.    -23.0 0.0960  0.72 0.36  1.50  12.0  15.0 285.2  2.0   0  0.00  55. 1005.   2 NAD-SFC NoSubs
10 12   2 336 17   -2.8  0.086 -9.000 -9.000 -999.   61.     19.8 0.0960  0.72 0.67  1.00  19.0  15.0 284.6  2.0   0  0.00  57. 1004.   2 NAD-SFC NoSubs
10 12   2 336 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471  0.72 1.00  0.00   0.0  15.0 284.1  2.0   0  0.00  61. 1005.   2 NAD-SFC NoSubs
10 12   2 336 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471  0.72 1.00  0.00   0.0  15.0 283.6  2.0   0  0.00  64. 1005.   2 NAD-SFC NoSubs
10 12   2 336 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471  0.72 1.00  0.00   0.0  15.0 283.2  2.0   0  0.00  66. 1005.   2 NAD-SFC NoSubs
10 12   2 336 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471  0.72 1.00  0.00   0.0  15.0 282.9  2.0   0  0.00  68. 1005.   2 NAD-SFC NoSubs
10 12   2 336 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471  0.72 1.00  0.00   0.0  15.0 282.8  2.0   0  0.00  69. 1005.   2 NAD-SFC NoSubs
10 12   2 336 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471  0.72 1.00  0.00   0.0  15.0 282.6  2.0   0  0.00  70. 1005.   2 NAD-SFC NoSubs
10 12   2 336 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471  0.72 1.00  0.00   0.0  15.0 282.5  2.0   0  0.00  71. 1005.   2 NAD-SFC NoSubs
10 12   3 337  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471  0.72 1.00  0.00   0.0  15.0 282.4  2.0   0  0.00  72. 1005.   2 NAD-SFC NoSubs
10 12   3 337  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471  0.72 1.00  0.00   0.0  15.0 282.2  2.0   0  0.00  72. 1004.   2 NAD-SFC NoSubs
10 12   3 337  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471  0.72 1.00  0.00   0.0  15.0 282.2  2.0   0  0.00  73. 1004.   2 NAD-SFC NoSubs
10 12   3 337  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471  0.72 1.00  0.00   0.0  15.0 282.2  2.0   0  0.00  73. 1004.   2 NAD-SFC NoSubs
10 12   3 337  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471  0.72 1.00  0.00   0.0  15.0 282.2  2.0   0  0.00  73. 1004.   2 NAD-SFC NoSubs
10 12   3 337  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471  0.72 1.00  0.00   0.0  15.0 282.2  2.0   0  0.00  73. 1005.   2 NAD-SFC NoSubs
10 12   3 337  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471  0.72 1.00  0.00   0.0  15.0 282.2  2.0   0  0.00  73. 1005.   2 NAD-SFC NoSubs
10 12   3 337  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471  0.72 0.50  0.00   0.0  15.0 282.2  2.0   0  0.00  73. 1005.   2 NAD-SFC NoSubs
10 12   3 337  9   28.5 -9.000 -9.000 -9.000   74. -999. -99999.0 0.0471  0.72 0.30  0.00   0.0  15.0 282.4  2.0   0  0.00  73. 1005.   2 NAD-SFC NoSubs
10 12   3 337 10   67.1 -9.000 -9.000 -9.000  171. -999. -99999.0 0.0471  0.72 0.24  0.00   0.0  15.0 283.4  2.0   0  0.00  72. 1005.   2 NAD-SFC NoSubs
10 12   3 337 11   93.5 -9.000 -9.000 -9.000  275. -999. -99999.0 0.0471  0.72 0.21  0.00   0.0  15.0 285.0  2.0   0  0.00  64. 1005.   2 NAD-SFC NoSubs
10 12   3 337 12  105.7 -9.000 -9.000 -9.000  367. -999. -99999.0 0.0471  0.72 0.20  0.00   0.0  15.0 286.4  2.0   0  0.00  50. 1004.   2 NAD-SFC NoSubs
10 12   3 337 13  102.9  0.087  1.141  0.006  517.   61.     -1.0 0.0800  0.72 0.21  0.50 326.0  15.0 287.0  2.0   0  0.00  49. 1004.   2 NAD-SFC NoSubs
10 12   3 337 14   85.3  0.134  1.151  0.007  639.  117.     -2.5 0.0950  0.72 0.22  1.00 347.0  15.0 287.2  2.0   0  0.00  49. 1003.   2 NAD-SFC NoSubs
10 12   3 337 15   54.0  0.126  1.014  0.007  692.  108.     -3.4 0.0960  0.72 0.25  1.00  21.0  15.0 287.2  2.0   0  0.00  53. 1003.   2 NAD-SFC NoSubs
10 12   3 337 16   11.9  0.135  0.616  0.007  701.  119.    -18.5 0.0650  0.72 0.36  1.50  36.0  15.0 286.9  2.0   0  0.00  55. 1003.   2 NAD-SFC NoSubs
10 12   3 337 17   -4.8  0.101 -9.000 -9.000 -999.   77.     19.3 0.0650  0.72 0.67  1.50  39.0  15.0 286.5  2.0   0  0.00  57. 1002.   2 NAD-SFC NoSubs
10 12   3 337 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471  0.72 1.00  0.00   0.0  15.0 286.1  2.0   0  0.00  59. 1003.   2 NAD-SFC NoSubs
10 12   3 337 19   -1.1  0.069 -9.000 -9.000 -999.   43.     27.5 0.0420  0.72 1.00  0.50 290.0  15.0 285.8  2.0   0  0.00  62. 1003.   2 NAD-SFC NoSubs
10 12   3 337 20   -1.3  0.075 -9.000 -9.000 -999.   49.     29.6 0.0950  0.72 1.00  0.50 334.0  15.0 285.5  2.0   0  0.00  63. 1003.   2 NAD-SFC NoSubs
10 12   3 337 21   -2.9  0.087 -9.000 -9.000 -999.   61.     19.9 0.0950  0.72 1.00  1.00 338.0  15.0 285.4  2.0   0  0.00  63. 1004.   2 NAD-SFC NoSubs
10 12   3 337 22   -5.5  0.108 -9.000 -9.000 -999.   85.     20.8 0.0950  0.72 1.00  1.50 353.0  15.0 285.4  2.0   0  0.00  63. 1004.   2 NAD-SFC NoSubs
10 12   3 337 23  -10.6  0.150 -9.000 -9.000 -999.  139.     28.5 0.0950  0.72 1.00  2.10 352.0  15.0 285.2  2.0   0  0.00  62. 1005.   2 NAD-SFC NoSubs
10 12   3 337 24  -10.6  0.150 -9.000 -9.000 -999.  139.     28.5 0.0950  0.72 1.00  2.10 345.0  15.0 285.2  2.0   0  0.00  62. 1005.   2 NAD-SFC NoSubs
10 12   4 338  1  -16.5  0.189 -9.000 -9.000 -999.  197.     36.5 0.0950  0.72 1.00  2.60 349.0  15.0 285.2  2.0   0  0.00  62. 1005.   2 NAD-SFC NoSubs
10 12   4 338  2  -10.6  0.150 -9.000 -9.000 -999.  140.     28.5 0.0950  0.72 1.00  2.10 359.0  15.0 285.2  2.0   0  0.00  63. 1005.   2 NAD-SFC NoSubs
10 12   4 338  3  -10.6  0.150 -9.000 -9.000 -999.  140.     28.6 0.0960  0.72 1.00  2.10   8.0  15.0 285.2  2.0   0  0.00  64. 1005.   2 NAD-SFC NoSubs
10 12   4 338  4  -10.7  0.150 -9.000 -9.000 -999.  140.     28.6 0.0960  0.72 1.00  2.10  26.0  15.0 285.2  2.0   0  0.00  65. 1006.   2 NAD-SFC NoSubs
10 12   4 338  5  -10.7  0.150 -9.000 -9.000 -999.  140.     28.6 0.0960  0.72 1.00  2.10  29.0  15.0 285.1  2.0   0  0.00  66. 1006.   2 NAD-SFC NoSubs
10 12   4 338  6   -5.5  0.108 -9.000 -9.000 -999.   86.     20.8 0.0960  0.72 1.00  1.50  28.0  15.0 285.1  2.0   0  0.00  68. 1006.   2 NAD-SFC NoSubs
10 12   4 338  7   -2.7  0.083 -9.000 -9.000 -999.   57.     19.0 0.0650  0.72 1.00  1.00  50.0  15.0 285.2  2.0   0  0.00  68. 1007.   2 NAD-SFC NoSubs
10 12   4 338  8   -5.9  0.124 -9.000 -9.000 -999.  105.     29.2 0.0310  0.72 0.51  2.10 117.0  15.0 285.8  2.0   0  0.00  66. 1007.   3 NAD-SFC NoSubs
10 12   4 338  9   30.1  0.313  0.407  0.005   80.  420.    -91.4 0.0280  0.72 0.31  4.60 144.0  15.0 286.4  2.0   0  0.00  65. 1007.   3 NAD-SFC NoSubs
10 12   4 338 10   68.7  0.451  0.706  0.005  184.  726.   -119.6 0.0280  0.72 0.24  6.70 141.0  15.0 287.9  2.0   0  0.00  63. 1007.   3 NAD-SFC NoSubs
10 12   4 338 11   94.9  0.397  0.949  0.005  324.  602.    -59.1 0.0280  0.72 0.21  5.70 140.0  15.0 289.2  2.0   0  0.00  61. 1007.   3 NAD-SFC NoSubs
10 12   4 338 12  107.0  0.399  1.134  0.005  490.  605.    -53.3 0.0280  0.72 0.20  5.70 143.0  15.0 290.2  2.0   0  0.00  59. 1007.   3 NAD-SFC NoSubs
10 12   4 338 13  104.5  0.428  1.241  0.005  656.  673.    -67.5 0.0280  0.72 0.21  6.20 132.0  15.0 291.2  2.0   0  0.00  53. 1006.   3 NAD-SFC NoSubs
10 12   4 338 14   87.2  0.330  1.304  0.005  913.  461.    -36.9 0.0280  0.72 0.22  4.60 132.0  15.0 291.2  2.0   0  0.00  55. 1006.   3 NAD-SFC NoSubs
10 12   4 338 15   56.3  0.237  1.168  0.005 1013.  281.    -21.1 0.0310  0.72 0.26  3.10 117.0  15.0 291.6  2.0   0  0.00  56. 1005.   3 NAD-SFC NoSubs
10 12   4 338 16   14.9  0.122  0.754  0.005 1031.  110.    -10.9 0.0310  0.72 0.36  1.50  97.0  15.0 291.6  2.0   0  0.00  56. 1005.   3 NAD-SFC NoSubs
10 12   4 338 17   -4.1  0.093 -9.000 -9.000 -999.   68.     17.6 0.0400  0.72 0.67  1.50  84.0  15.0 291.2  2.0   0  0.00  55. 1005.   3 NAD-SFC NoSubs
10 12   4 338 18   -4.0  0.090 -9.000 -9.000 -999.   65.     16.5 0.0310  0.72 1.00  1.50  97.0  15.0 290.8  2.0   0  0.00  57. 1005.   3 NAD-SFC NoSubs
10 12   4 338 19  -16.5  0.182 -9.000 -9.000 -999.  186.     32.7 0.0280  0.72 1.00  3.10 132.0  15.0 289.9  2.0   0  0.00  60. 1006.   3 NAD-SFC NoSubs
10 12   4 338 20  -25.6  0.245 -9.000 -9.000 -999.  291.     51.3 0.0280  0.72 1.00  4.10 140.0  15.0 288.9  2.0   0  0.00  62. 1006.   3 NAD-SFC NoSubs
10 12   4 338 21  -25.7  0.245 -9.000 -9.000 -999.  291.     51.3 0.0280  0.72 1.00  4.10 138.0  15.0 288.5  2.0   0  0.00  62. 1007.   3 NAD-SFC NoSubs
10 12   4 338 22  -22.4  0.213 -9.000 -9.000 -999.  237.     38.9 0.0280  0.72 1.00  3.60 139.0  15.0 288.4  2.0   0  0.00  61. 1007.   3 NAD-SFC NoSubs
10 12   4 338 23  -11.5  0.150 -9.000 -9.000 -999.  141.     26.5 0.0280  0.72 1.00  2.60 137.0  15.0 288.2  2.0   0  0.00  60. 1008.   3 NAD-SFC NoSubs
10 12   4 338 24   -3.9  0.089 -9.000 -9.000 -999.   65.     16.2 0.0280  0.72 1.00  1.50 138.0  15.0 287.8  2.0   0  0.00  61. 1008.   3 NAD-SFC NoSubs
10 12   5 339  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471  0.72 1.00  0.00   0.0  15.0 287.4  2.0   0  0.00  64. 1008.   3 NAD-SFC NoSubs
10 12   5 339  2   -5.4  0.108 -9.000 -9.000 -999.   85.     21.0 0.0950  0.72 1.00  1.50 333.0  15.0 286.8  2.0   0  0.00  70. 1008.   3 NAD-SFC NoSubs
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10 12  5 339  3  -23.6  0.229 -9.000 -9.000 -999.  262.    45.5  0.0950  0.72  1.00  3.10  344.0  15.0  285.8  2.0  0  0.00   78.  1008.   3 NAD-SFC NoSubs
10 12  5 339  4  -28.5  0.268 -9.000 -9.000 -999.  334.    61.0  0.0960  0.72  1.00  3.60    1.0  15.0  285.1  2.0  0  0.00   85.  1008.   3 NAD-SFC NoSubs
10 12  5 339  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  284.6  2.0  0  0.00   90.  1008.   3 NAD-SFC NoSubs
10 12  5 339  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  284.2  2.0  0  0.00   92.  1008.   3 NAD-SFC NoSubs
10 12  5 339  7   -1.2  0.074 -9.000 -9.000 -999.   48.    29.4  0.0950  0.72  1.00  0.50  332.0  15.0  284.0  2.0  0  0.00   93.  1009.   3 NAD-SFC NoSubs
10 12  5 339  8   -0.6  0.052 -9.000 -9.000 -999.   29.    21.6  0.0220  0.72  0.51  0.50  195.0  15.0  284.0  2.0  0  0.00   92.  1009.   3 NAD-SFC NoSubs
10 12  5 339  9   28.9  0.093  0.390  0.008   74.   68.    -2.5  0.0240  0.72  0.31  1.00  162.0  15.0  284.6  2.0  0  0.00   87.  1009.   3 NAD-SFC NoSubs
10 12  5 339 10   67.4  0.135  0.740  0.005  216.  119.    -3.3  0.0240  0.72  0.24  1.50  157.0  15.0  286.2  2.0  0  0.00   76.  1008.   3 NAD-SFC NoSubs
10 12  5 339 11   94.1  0.207  1.043  0.005  433.  226.    -8.5  0.0240  0.72  0.21  2.60  153.0  15.0  288.9  2.0  0  0.00   63.  1008.   3 NAD-SFC NoSubs
10 12  5 339 12  106.6  0.209  1.265  0.005  683.  229.    -7.7  0.0240  0.72  0.20  2.60  152.0  15.0  290.9  2.0  0  0.00   58.  1007.   3 NAD-SFC NoSubs
10 12  5 339 13  104.3  0.244  1.422  0.005  991.  290.   -12.5  0.0280  0.72  0.21  3.10  148.0  15.0  292.2  2.0  0  0.00   58.  1006.   3 NAD-SFC NoSubs
10 12  5 339 14   87.3  0.330  1.428  0.005 1196.  455.   -36.8  0.0280  0.72  0.22  4.60  140.0  15.0  292.8  2.0  0  0.00   60.  1005.   3 NAD-SFC NoSubs
10 12  5 339 15   56.2  0.447  1.270  0.005 1308.  718.  -142.8  0.0280  0.72  0.26  6.70  144.0  15.0  292.0  2.0  0  0.00   62.  1005.   3 NAD-SFC NoSubs
10 12  5 339 16   14.5  0.496  0.814  0.005 1332.  837.  -753.3  0.0280  0.72  0.36  7.70  136.0  15.0  290.9  2.0  0  0.00   63.  1004.   3 NAD-SFC NoSubs
10 12  5 339 17  -47.1  0.473 -9.000 -9.000 -999.  781.   200.9  0.0280  0.72  0.67  7.70  138.0  15.0  290.2  2.0  0  0.00   66.  1004.   3 NAD-SFC NoSubs
10 12  5 339 18  -41.1  0.409 -9.000 -9.000 -999.  631.   149.0  0.0280  0.72  1.00  6.70  137.0  15.0  289.6  2.0  0  0.51   68.  1005.   4 NAD-SFC NoSubs
10 12  5 339 19  -37.0  0.368 -9.000 -9.000 -999.  537.   120.5  0.0240  0.72  1.00  6.20  155.0  15.0  289.4  2.0  0  0.76   69.  1006.   4 NAD-SFC NoSubs
10 12  5 339 20  -32.3  0.337 -9.000 -9.000 -999.  471.   106.5  0.0240  0.72  1.00  5.70  151.0  15.0  289.2  2.0  0  1.02   70.  1006.   5 NAD-SFC NoSubs
10 12  5 339 21  -30.3  0.300 -9.000 -9.000 -999.  395.    80.2  0.0240  0.72  1.00  5.10  155.0  15.0  289.1  2.0  0  0.51   71.  1007.   4 NAD-SFC NoSubs
10 12  5 339 22  -27.9  0.276 -9.000 -9.000 -999.  349.    67.9  0.0280  0.72  1.00  4.60  146.0  15.0  288.8  2.0  0  0.00   72.  1008.   4 NAD-SFC NoSubs
10 12  5 339 23  -28.0  0.276 -9.000 -9.000 -999.  349.    67.8  0.0280  0.72  1.00  4.60  146.0  15.0  288.5  2.0  0  0.00   74.  1008.   4 NAD-SFC NoSubs
10 12  5 339 24  -25.7  0.245 -9.000 -9.000 -999.  291.    51.2  0.0280  0.72  1.00  4.10  140.0  15.0  288.4  2.0  0  0.00   75.  1009.   3 NAD-SFC NoSubs
10 12  6 340  1  -16.6  0.182 -9.000 -9.000 -999.  187.    32.6  0.0280  0.72  1.00  3.10  120.0  15.0  288.0  2.0  0  0.00   77.  1009.   3 NAD-SFC NoSubs
10 12  6 340  2   -0.9  0.065 -9.000 -9.000 -999.   52.    25.8  0.0240  0.72  1.00  0.50  164.0  15.0  287.8  2.0  0  0.00   78.  1010.   3 NAD-SFC NoSubs
10 12  6 340  3   -5.4  0.108 -9.000 -9.000 -999.   85.    21.0  0.0950  0.72  1.00  1.50  338.0  15.0  286.9  2.0  0  0.00   82.  1011.   3 NAD-SFC NoSubs
10 12  6 340  4  -16.2  0.189 -9.000 -9.000 -999.  198.    38.0  0.0950  0.72  1.00  2.60  338.0  15.0  286.2  2.0  0  0.00   86.  1012.   4 NAD-SFC NoSubs
10 12  6 340  5  -27.5  0.268 -9.000 -9.000 -999.  333.    63.2  0.0950  0.72  1.00  3.60  344.0  15.0  285.6  2.0  0  0.00   91.  1013.   4 NAD-SFC NoSubs
10 12  6 340  6  -27.6  0.268 -9.000 -9.000 -999.  333.    63.1  0.0950  0.72  1.00  3.60  358.0  15.0  284.9  2.0  0  0.00   95.  1014.   4 NAD-SFC NoSubs
10 12  6 340  7  -26.4  0.269 -9.000 -9.000 -999.  335.    66.7  0.0960  0.72  1.00  3.60   24.0  15.0  284.4  2.0  0  0.00   98.  1014.   5 NAD-SFC NoSubs
10 12  6 340  8  -10.9  0.216 -9.000 -9.000 -999.  242.    84.0  0.0650  0.72  0.52  3.10   36.0  15.0  284.2  2.0  0  0.00  100.  1015.   6 NAD-SFC NoSubs
10 12  6 340  9   29.1  0.118  0.487  0.005  144.  102.    -5.1  0.0960  0.72  0.31  1.00    4.0  15.0  285.0  2.0  0  0.00   94.  1016.   5 NAD-SFC NoSubs
10 12  6 340 10   66.7  0.147  0.871  0.005  359.  135.    -4.3  0.0420  0.72  0.24  1.50  296.0  15.0  286.2  2.0  0  0.00   83.  1016.   3 NAD-SFC NoSubs
10 12  6 340 11   92.8  0.085  1.110  0.005  533.   60.    -1.0  0.0800  0.72  0.21  0.50  302.0  15.0  286.9  2.0  0  0.00   79.  1015.   3 NAD-SFC NoSubs
10 12  6 340 12  104.1 -9.000 -9.000 -9.000  696. -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0  287.4  2.0  0  0.00   77.  1015.   2 NAD-SFC NoSubs
10 12  6 340 13  101.6 -9.000 -9.000 -9.000  899. -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0  287.9  2.0  0  0.00   74.  1014.   2 NAD-SFC NoSubs
10 12  6 340 14   84.5 -9.000 -9.000 -9.000 1037. -999. -99999.0  0.0471  0.72  0.22  0.00    0.0  15.0  288.6  2.0  0  0.00   71.  1013.   2 NAD-SFC NoSubs
10 12  6 340 15   53.6  0.062  1.182  0.005 1114.   37.    -1.0  0.0200  0.72  0.26  0.50  258.0  15.0  289.1  2.0  0  0.00   68.  1013.   2 NAD-SFC NoSubs
10 12  6 340 16   12.2  0.140  0.725  0.005 1132.  126.   -20.4  0.0800  0.72  0.36  1.50  308.0  15.0  289.4  2.0  0  0.00   61.  1012.   2 NAD-SFC NoSubs
10 12  6 340 17   -5.4  0.108 -9.000 -9.000 -999.   85.    21.2  0.0960  0.72  0.67  1.50   18.0  15.0  288.8  2.0  0  0.00   65.  1012.   2 NAD-SFC NoSubs
10 12  6 340 18   -4.9  0.101 -9.000 -9.000 -999.   77.    19.1  0.0650  0.72  1.00  1.50   31.0  15.0  287.9  2.0  0  0.00   71.  1013.   2 NAD-SFC NoSubs
10 12  6 340 19   -2.7  0.083 -9.000 -9.000 -999.   57.    19.0  0.0650  0.72  1.00  1.00   42.0  15.0  286.9  2.0  0  0.00   77.  1013.   2 NAD-SFC NoSubs
10 12  6 340 20   -1.1  0.069 -9.000 -9.000 -999.   43.    27.4  0.0400  0.72  1.00  0.50   74.0  15.0  285.8  2.0  0  0.00   83.  1013.   2 NAD-SFC NoSubs
10 12  6 340 21   -1.0  0.067 -9.000 -9.000 -999.   42.    26.8  0.0310  0.72  1.00  0.50  109.0  15.0  284.8  2.0  0  0.00   89.  1014.   2 NAD-SFC NoSubs
10 12  6 340 22   -1.0  0.066 -9.000 -9.000 -999.   40.    26.2  0.0240  0.72  1.00  0.50  153.0  15.0  284.0  2.0  0  0.00   94.  1014.   2 NAD-SFC NoSubs
10 12  6 340 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  283.2  2.0  0  0.00   97.  1014.   2 NAD-SFC NoSubs
10 12  6 340 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  281.8  2.0  0  0.00  100.  1014.   2 NAD-SFC NoSubs
10 12  7 341  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  280.6  2.0  0  0.00  100.  1014.   2 NAD-SFC NoSubs
10 12  7 341  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  280.8  2.0  0  0.00  100.  1014.   2 NAD-SFC NoSubs
10 12  7 341  3   -1.3  0.075 -9.000 -9.000 -999.   49.    29.8  0.0950  0.72  1.00  0.50  340.0  15.0  280.8  2.0  0  0.00  100.  1014.   2 NAD-SFC NoSubs
10 12  7 341  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  280.8  2.0  0  0.00  100.  1013.   2 NAD-SFC NoSubs
10 12  7 341  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  280.8  2.0  0  0.00  100.  1013.   2 NAD-SFC NoSubs
10 12  7 341  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  280.8  2.0  0  0.00  100.  1013.   2 NAD-SFC NoSubs
10 12  7 341  7   -1.0  0.065 -9.000 -9.000 -999.   40.    25.9  0.0200  0.72  1.00  0.50  265.0  15.0  280.5  2.0  0  0.00  100.  1013.   2 NAD-SFC NoSubs
10 12  7 341  8   -0.8  0.059 -9.000 -9.000 -999.   35.    24.3  0.0420  0.72  0.52  0.50  270.0  15.0  280.2  2.0  0  0.00  100.  1014.   2 NAD-SFC NoSubs
10 12  7 341  9   25.0 -9.000 -9.000 -9.000  101. -999. -99999.0  0.0471  0.72  0.31  0.00    0.0  15.0  280.5  2.0  0  0.00   99.  1014.   2 NAD-SFC NoSubs
10 12  7 341 10   63.7 -9.000 -9.000 -9.000  173. -999. -99999.0  0.0471  0.72  0.24  0.00    0.0  15.0  281.8  2.0  0  0.00   89.  1014.   2 NAD-SFC NoSubs
10 12  7 341 11   90.4 -9.000 -9.000 -9.000  292. -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0  283.8  2.0  0  0.00   74.  1014.   2 NAD-SFC NoSubs
10 12  7 341 12  103.1  0.089  1.062  0.011  420.   64.    -1.0  0.0950  0.72  0.21  0.50  336.0  15.0  286.0  2.0  0  0.00   58.  1013.   2 NAD-SFC NoSubs
10 12  7 341 13  101.0  0.132  1.139  0.011  529.  115.    -2.0  0.0800  0.72  0.21  1.00  329.0  15.0  287.4  2.0  0  0.00   50.  1012.   2 NAD-SFC NoSubs
10 12  7 341 14   84.0  0.174  1.121  0.011  605.  174.    -5.6  0.0950  0.72  0.22  1.50  334.0  15.0  288.0  2.0  0  0.00   47.  1011.   2 NAD-SFC NoSubs
10 12  7 341 15   53.1  0.210  0.984  0.011  648.  231.   -15.8  0.0950  0.72  0.26  2.10  344.0  15.0  288.1  2.0  0  0.00   47.  1011.   2 NAD-SFC NoSubs
10 12  7 341 16   11.5  0.188  0.595  0.011  657.  195.   -51.6  0.0960  0.72  0.36  2.10    2.0  15.0  287.8  2.0  0  0.00   51.  1010.   2 NAD-SFC NoSubs
10 12  7 341 17   -5.4  0.108 -9.000 -9.000 -999.   87.    21.1  0.0960  0.72  0.67  1.50   23.0  15.0  287.0  2.0  0  0.00   54.  1010.   2 NAD-SFC NoSubs
10 12  7 341 18   -1.3  0.075 -9.000 -9.000 -999.   49.    29.6  0.0960  0.72  1.00  0.50   21.0  15.0  286.0  2.0  0  0.00   58.  1010.   2 NAD-SFC NoSubs
10 12  7 341 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  285.0  2.0  0  0.00   63.  1010.   2 NAD-SFC NoSubs
10 12  7 341 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  284.2  2.0  0  0.00   67.  1010.   2 NAD-SFC NoSubs
10 12  7 341 21   -1.2  0.072 -9.000 -9.000 -999.   46.    28.7  0.0650  0.72  1.00  0.50   36.0  15.0  283.5  2.0  0  0.00   70.  1011.   2 NAD-SFC NoSubs
10 12  7 341 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  283.0  2.0  0  0.00   73.  1011.   2 NAD-SFC NoSubs
10 12  7 341 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.5  2.0  0  0.00   76.  1011.   2 NAD-SFC NoSubs
10 12  7 341 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.1  2.0  0  0.00   78.  1011.   2 NAD-SFC NoSubs
10 12  8 342  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  281.9  2.0  0  0.00   79.  1011.   2 NAD-SFC NoSubs
10 12  8 342  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  281.8  2.0  0  0.00   80.  1011.   2 NAD-SFC NoSubs
10 12  8 342  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  281.8  2.0  0  0.00   80.  1011.   2 NAD-SFC NoSubs
10 12  8 342  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  281.8  2.0  0  0.00   80.  1011.   2 NAD-SFC NoSubs
10 12  8 342  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  281.6  2.0  0  0.00   81.  1011.   2 NAD-SFC NoSubs
10 12  8 342  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  281.5  2.0  0  0.00   81.  1011.   2 NAD-SFC NoSubs
10 12  8 342  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  281.4  2.0  0  0.00   82.  1011.   2 NAD-SFC NoSubs
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10 12  8 342  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 0.53 0.00   0.0 15.0 281.2 2.0 0 0.00 83. 1012. 2 NAD-SFC NoSubs
10 12  8 342  9   24.4 -9.000 -9.000 -9.000   75. -999. -99999.0 0.0471 0.72 0.31 0.00   0.0 15.0 281.4 2.0 0 0.00 83. 1012. 2 NAD-SFC NoSubs
10 12  8 342 10   63.1 -9.000 -9.000 -9.000  185. -999. -99999.0 0.0471 0.72 0.24 0.00   0.0 15.0 282.2 2.0 0 0.00 80. 1012. 2 NAD-SFC NoSubs
10 12  8 342 11   89.9 -9.000 -9.000 -9.000  300. -999. -99999.0 0.0471 0.72 0.21 0.00   0.0 15.0 284.1 2.0 0 0.00 69. 1012. 2 NAD-SFC NoSubs
10 12  8 342 12  102.4  0.070  1.041  0.008  397.  44.     -1.0 0.0240 0.72 0.21 0.50 176.0 15.0 285.4 2.0 0 0.00 60. 1011. 2 NAD-SFC NoSubs
10 12  8 342 13  100.2  0.105  1.103  0.007  482.  82.     -1.1 0.0220 0.72 0.21 1.00 196.0 15.0 286.1 2.0 0 0.00 58. 1010. 2 NAD-SFC NoSubs
10 12  8 342 14   83.2  0.067  1.079  0.007  543.  41.     -1.0 0.0220 0.72 0.22 0.50 205.0 15.0 286.5 2.0 0 0.00 56. 1010. 2 NAD-SFC NoSubs
10 12  8 342 15   52.4  0.069  0.945  0.007  579.  44.     -1.0 0.0400 0.72 0.26 0.50  76.0 15.0 286.6 2.0 0 0.00 59. 1009. 2 NAD-SFC NoSubs
10 12  8 342 16   11.1  0.092  0.565  0.007  586.  67.     -6.3 0.0400 0.72 0.36 1.00  67.0 15.0 286.4 2.0 0 0.00 61. 1009. 2 NAD-SFC NoSubs
10 12  8 342 17   -2.3  0.077 -9.000 -9.000 -999.  52.     17.7 0.0400 0.72 0.67 1.00  76.0 15.0 285.9 2.0 0 0.00 64. 1008. 2 NAD-SFC NoSubs
10 12  8 342 18   -1.0  0.066 -9.000 -9.000 -999.  41.     26.5 0.0280 0.72 1.00 0.50 126.0 15.0 285.5 2.0 0 0.00 67. 1009. 2 NAD-SFC NoSubs
10 12  8 342 19   -1.0  0.066 -9.000 -9.000 -999.  40.     26.2 0.0240 0.72 1.00 0.50 165.0 15.0 285.2 2.0 0 0.00 69. 1009. 2 NAD-SFC NoSubs
10 12  8 342 20   -0.9  0.064 -9.000 -9.000 -999.  39.     25.6 0.0240 0.72 1.00 0.50 152.0 15.0 284.9 2.0 0 0.00 71. 1009. 4 NAD-SFC NoSubs
10 12  8 342 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 284.8 2.0 0 0.00 72. 1010. 4 NAD-SFC NoSubs
10 12  8 342 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 284.5 2.0 0 0.00 74. 1010. 4 NAD-SFC NoSubs
10 12  8 342 23   -1.0  0.065 -9.000 -9.000 -999.  40.     26.3 0.0400 0.72 1.00 0.50  68.0 15.0 284.2 2.0 0 0.00 75. 1010. 5 NAD-SFC NoSubs
10 12  8 342 24   -1.0  0.065 -9.000 -9.000 -999.  40.     26.3 0.0400 0.72 1.00 0.50  73.0 15.0 284.1 2.0 0 0.00 76. 1010. 5 NAD-SFC NoSubs
10 12  9 343  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 283.9 2.0 0 0.00 77. 1010. 5 NAD-SFC NoSubs
10 12  9 343  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 283.8 2.0 0 0.00 78. 1010. 5 NAD-SFC NoSubs
10 12  9 343  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 283.8 2.0 0 0.00 78. 1010. 5 NAD-SFC NoSubs
10 12  9 343  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 283.6 2.0 0 0.00 78. 1010. 4 NAD-SFC NoSubs
10 12  9 343  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 283.6 2.0 0 0.00 78. 1010. 4 NAD-SFC NoSubs
10 12  9 343  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 283.6 2.0 0 0.00 79. 1010. 4 NAD-SFC NoSubs
10 12  9 343  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 283.6 2.0 0 0.00 80. 1010. 3 NAD-SFC NoSubs
10 12  9 343  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 0.53 0.00   0.0 15.0 283.6 2.0 0 0.00 81. 1010. 3 NAD-SFC NoSubs
10 12  9 343  9   25.7 -9.000 -9.000 -9.000   77. -999. -99999.0 0.0471 0.72 0.32 0.00   0.0 15.0 283.8 2.0 0 0.00 81. 1011. 3 NAD-SFC NoSubs
10 12  9 343 10   64.1 -9.000 -9.000 -9.000  217. -999. -99999.0 0.0471 0.72 0.24 0.00   0.0 15.0 284.4 2.0 0 0.00 78. 1011. 3 NAD-SFC NoSubs
10 12  9 343 11   90.7 -9.000 -9.000 -9.000  354. -999. -99999.0 0.0471 0.72 0.21 0.00   0.0 15.0 286.0 2.0 0 0.00 67. 1011. 3 NAD-SFC NoSubs
10 12  9 343 12  103.2 -9.000 -9.000 -9.000  484. -999. -99999.0 0.0471 0.72 0.21 0.00   0.0 15.0 287.1 2.0 0 0.00 60. 1011. 3 NAD-SFC NoSubs
10 12  9 343 13  101.1 -9.000 -9.000 -9.000  593. -999. -99999.0 0.0471 0.72 0.21 0.00   0.0 15.0 287.9 2.0 0 0.00 56. 1011. 3 NAD-SFC NoSubs
10 12  9 343 14   84.3 -9.000 -9.000 -9.000  675. -999. -99999.0 0.0471 0.72 0.22 0.00   0.0 15.0 288.5 2.0 0 0.00 54. 1010. 4 NAD-SFC NoSubs
10 12  9 343 15   54.7 -9.000 -9.000 -9.000  737. -999. -99999.0 0.0471 0.72 0.26 0.00   0.0 15.0 289.2 2.0 0 0.00 51. 1010. 4 NAD-SFC NoSubs
10 12  9 343 16   13.5  0.054  0.656  0.005  751.  30.     -1.0 0.0240 0.72 0.36 0.50 173.0 15.0 289.2 2.0 0 0.00 52. 1009. 3 NAD-SFC NoSubs
10 12  9 343 17   -0.9  0.063 -9.000 -9.000 -999.  38.     25.4 0.0240 0.72 0.67 0.50 162.0 15.0 288.6 2.0 0 0.00 56. 1009. 3 NAD-SFC NoSubs
10 12  9 343 18   -2.1  0.074 -9.000 -9.000 -999.  48.     16.9 0.0280 0.72 1.00 1.00 144.0 15.0 287.8 2.0 0 0.00 60. 1009. 4 NAD-SFC NoSubs
10 12  9 343 19   -3.9  0.089 -9.000 -9.000 -999.  63.     16.3 0.0280 0.72 1.00 1.50 134.0 15.0 286.8 2.0 0 0.00 64. 1010. 4 NAD-SFC NoSubs
10 12  9 343 20  -11.3  0.150 -9.000 -9.000 -999. 140.     27.0 0.0280 0.72 1.00 2.60 134.0 15.0 286.2 2.0 0 0.00 65. 1010. 4 NAD-SFC NoSubs
10 12  9 343 21  -22.7  0.213 -9.000 -9.000 -999. 236.     38.5 0.0280 0.72 1.00 3.60 131.0 15.0 285.8 2.0 0 0.00 66. 1010. 3 NAD-SFC NoSubs
10 12  9 343 22  -26.0  0.245 -9.000 -9.000 -999. 290.     50.6 0.0280 0.72 1.00 4.10 135.0 15.0 285.2 2.0 0 0.00 67. 1010. 3 NAD-SFC NoSubs
10 12  9 343 23  -26.1  0.245 -9.000 -9.000 -999. 290.     50.6 0.0280 0.72 1.00 4.10 137.0 15.0 284.9 2.0 0 0.00 69. 1010. 3 NAD-SFC NoSubs
10 12  9 343 24  -22.7  0.213 -9.000 -9.000 -999. 237.     38.4 0.0280 0.72 1.00 3.60 137.0 15.0 284.8 2.0 0 0.00 70. 1010. 3 NAD-SFC NoSubs
10 12 10 344  1  -16.7  0.182 -9.000 -9.000 -999. 186.     32.4 0.0280 0.72 1.00 3.10 144.0 15.0 284.6 2.0 0 0.00 71. 1010. 3 NAD-SFC NoSubs
10 12 10 344  2   -4.0  0.089 -9.000 -9.000 -999.  68.     16.2 0.0280 0.72 1.00 1.50 145.0 15.0 284.2 2.0 0 0.00 75. 1010. 3 NAD-SFC NoSubs
10 12 10 344  3   -1.0  0.066 -9.000 -9.000 -999.  41.     26.6 0.0310 0.72 1.00 0.50 118.0 15.0 283.8 2.0 0 0.00 81. 1010. 3 NAD-SFC NoSubs
10 12 10 344  4   -1.2  0.072 -9.000 -9.000 -999.  46.     28.6 0.0800 0.72 1.00 0.50 307.0 15.0 283.0 2.0 0 0.00 89. 1010. 4 NAD-SFC NoSubs
10 12 10 344  5   -2.7  0.083 -9.000 -9.000 -999.  58.     19.3 0.0800 0.72 1.00 1.00 305.0 15.0 282.4 2.0 0 0.00 96. 1010. 4 NAD-SFC NoSubs
10 12 10 344  6   -2.2  0.076 -9.000 -9.000 -999.  50.     17.6 0.0420 0.72 1.00 1.00 293.0 15.0 282.2 2.0 0 0.00 100. 1011. 5 NAD-SFC NoSubs
10 12 10 344  7   -1.0  0.066 -9.000 -9.000 -999.  41.     26.5 0.0420 0.72 1.00 0.50 272.0 15.0 282.8 2.0 0 0.00 100. 1011. 5 NAD-SFC NoSubs
10 12 10 344  8   -0.5  0.050 -9.000 -9.000 -999.  27.     20.9 0.0220 0.72 0.54 0.50 193.0 15.0 283.2 2.0 0 0.00 100. 1012. 6 NAD-SFC NoSubs
10 12 10 344  9   25.1  0.058  0.362  0.011   68.  34.     -1.0 0.0240 0.72 0.32 0.50 152.0 15.0 283.5 2.0 0 0.00 100. 1012. 6 NAD-SFC NoSubs
10 12 10 344 10   62.2  0.104  0.680  0.008  183.  80.     -1.6 0.0280 0.72 0.24 1.00 136.0 15.0 283.9 2.0 0 0.00 100. 1012. 5 NAD-SFC NoSubs
10 12 10 344 11   87.1  0.108  0.926  0.007  330.  85.     -1.3 0.0280 0.72 0.22 1.00 143.0 15.0 284.5 2.0 0 0.00 100. 1012. 5 NAD-SFC NoSubs
10 12 10 344 12   98.8  0.110  1.074  0.006  453.  87.     -1.2 0.0280 0.72 0.21 1.00 146.0 15.0 285.1 2.0 0 0.00 99. 1012. 5 NAD-SFC NoSubs
10 12 10 344 13   99.6  0.068  1.152  0.006  555.  43.     -1.0 0.0220 0.72 0.21 0.50 206.0 15.0 285.9 2.0 0 0.00 94. 1012. 4 NAD-SFC NoSubs
10 12 10 344 14   83.6  0.103  1.134  0.005  629.  80.     -1.2 0.0220 0.72 0.22 1.00 230.0 15.0 287.0 2.0 0 0.00 88. 1011. 4 NAD-SFC NoSubs
10 12 10 344 15   54.1  0.128  1.009  0.005  685. 110.     -3.5 0.0200 0.72 0.26 1.50 245.0 15.0 287.8 2.0 0 0.00 84. 1011. 4 NAD-SFC NoSubs
10 12 10 344 16   14.3  0.114  0.655  0.006  706.  93.     -9.3 0.0200 0.72 0.36 1.50 241.0 15.0 288.0 2.0 0 0.00 84. 1010. 4 NAD-SFC NoSubs
10 12 10 344 17   -0.9  0.063 -9.000 -9.000 -999.  38.     25.3 0.0220 0.72 0.67 0.50 238.0 15.0 287.5 2.0 0 0.00 86. 1010. 3 NAD-SFC NoSubs
10 12 10 344 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 286.9 2.0 0 0.00 90. 1010. 3 NAD-SFC NoSubs
10 12 10 344 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 286.1 2.0 0 0.00 94. 1011. 3 NAD-SFC NoSubs
10 12 10 344 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 285.5 2.0 0 0.00 97. 1011. 3 NAD-SFC NoSubs
10 12 10 344 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 285.0 2.0 0 0.00 100. 1011. 3 NAD-SFC NoSubs
10 12 10 344 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 283.9 2.0 0 0.00 100. 1011. 3 NAD-SFC NoSubs
10 12 10 344 23   -1.0  0.067 -9.000 -9.000 -999.  41.     26.6 0.0310 0.72 1.00 0.50  94.0 15.0 282.4 2.0 0 0.00 100. 1011. 3 NAD-SFC NoSubs
10 12 10 344 24   -1.0  0.066 -9.000 -9.000 -999.  41.     26.4 0.0280 0.72 1.00 0.50 144.0 15.0 282.4 2.0 0 0.00 100. 1011. 3 NAD-SFC NoSubs
10 12 11 345  1   -1.0  0.065 -9.000 -9.000 -999.  40.     26.0 0.0240 0.72 1.00 0.50 151.0 15.0 282.2 2.0 0 0.00 100. 1011. 3 NAD-SFC NoSubs
10 12 11 345  2   -1.0  0.065 -9.000 -9.000 -999.  40.     26.0 0.0240 0.72 1.00 0.50 158.0 15.0 282.5 2.0 0 0.00 100. 1011. 3 NAD-SFC NoSubs
10 12 11 345  3   -1.0  0.065 -9.000 -9.000 -999.  40.     26.0 0.0240 0.72 1.00 0.50 170.0 15.0 282.9 2.0 0 0.00 100. 1011. 3 NAD-SFC NoSubs
10 12 11 345  4   -1.0  0.065 -9.000 -9.000 -999.  40.     26.0 0.0240 0.72 1.00 0.50 172.0 15.0 283.1 2.0 0 0.00 100. 1011. 3 NAD-SFC NoSubs
10 12 11 345  5   -0.9  0.065 -9.000 -9.000 -999.  39.     25.8 0.0220 0.72 1.00 0.50 185.0 15.0 283.2 2.0 0 0.00 100. 1012. 3 NAD-SFC NoSubs
10 12 11 345  6   -0.9  0.065 -9.000 -9.000 -999.  39.     25.8 0.0220 0.72 1.00 0.50 180.0 15.0 283.5 2.0 0 0.00 100. 1012. 3 NAD-SFC NoSubs
10 12 11 345  7   -0.9  0.065 -9.000 -9.000 -999.  39.     25.8 0.0220 0.72 1.00 0.50 183.0 15.0 283.6 2.0 0 0.00 100. 1012. 3 NAD-SFC NoSubs
10 12 11 345  8   -1.6  0.066 -9.000 -9.000 -999.  41.     15.8 0.0240 0.72 0.54 1.00 172.0 15.0 283.8 2.0 0 0.00 100. 1012. 3 NAD-SFC NoSubs
10 12 11 345  9   24.5  0.092  0.440  0.011  125.  67.     -2.8 0.0240 0.72 0.32 1.00 179.0 15.0 284.0 2.0 0 0.00 100. 1013. 3 NAD-SFC NoSubs
10 12 11 345 10   62.9  0.132  0.696  0.009  194. 115.     -3.3 0.0220 0.72 0.24 1.50 181.0 15.0 284.5 2.0 0 0.00 99. 1013. 3 NAD-SFC NoSubs
10 12 11 345 11   89.4  0.104  0.936  0.010  331.  80.     -1.1 0.0220 0.72 0.22 1.00 180.0 15.0 285.2 2.0 0 0.00 96. 1013. 3 NAD-SFC NoSubs
10 12 11 345 12  102.0 -9.000 -9.000 -9.000  451. -999. -99999.0 0.0471 0.72 0.21 0.00   0.0 15.0 286.1 2.0 0 0.00 92. 1012. 3 NAD-SFC NoSubs
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10 12 11 345 13  100.5 -9.000 -9.000 -9.000  549. -999. -99999.0  0.0471  0.72  0.21  0.00   0.0  15.0  288.2  2.0  0  0.00   81.  1011.  3 NAD-SFC NoSubs
10 12 11 345 14   84.3  0.133  1.131  0.011  619.  117.     -2.5  0.0950  0.72  0.22  1.00 351.0  15.0  289.2  2.0  0  0.00   76.  1011.  3 NAD-SFC NoSubs
10 12 11 345 15   54.2 -9.000 -9.000 -9.000  660. -999. -99999.0  0.0471  0.72  0.26  0.00   0.0  15.0  289.6  2.0  0  0.00   74.  1010.  3 NAD-SFC NoSubs
10 12 11 345 16   12.0  0.145  0.606  0.011  667.  132.    -22.7  0.0960  0.72  0.36  1.50   2.0  15.0  289.9  2.0  0  0.00   82.  1010.  2 NAD-SFC NoSubs
10 12 11 345 17  -16.3  0.190 -9.000 -9.000 -999.  198.     37.8  0.0960  0.72  0.67  2.60  17.0  15.0  288.8  2.0  0  0.00   88.  1010.  2 NAD-SFC NoSubs
10 12 11 345 18  -14.7  0.175 -9.000 -9.000 -999.  175.     32.7  0.0650  0.72  1.00  2.60  34.0  15.0  287.5  2.0  0  0.00   95.  1010.  2 NAD-SFC NoSubs
10 12 11 345 19   -9.4  0.139 -9.000 -9.000 -999.  124.     25.5  0.0650  0.72  1.00  2.10  33.0  15.0  286.6  2.0  0  0.00   99.  1010.  2 NAD-SFC NoSubs
10 12 11 345 20   -2.7  0.083 -9.000 -9.000 -999.   58.     19.0  0.0650  0.72  1.00  1.00  34.0  15.0  286.1  2.0  0  0.00  100.  1010.  2 NAD-SFC NoSubs
10 12 11 345 21   -2.7  0.083 -9.000 -9.000 -999.   57.     19.0  0.0650  0.72  1.00  1.00  45.0  15.0  285.1  2.0  0  0.00  100.  1010.  2 NAD-SFC NoSubs
10 12 11 345 22   -1.2  0.072 -9.000 -9.000 -999.   46.     28.6  0.0650  0.72  1.00  0.50  51.0  15.0  285.0  2.0  0  0.00  100.  1010.  2 NAD-SFC NoSubs
10 12 11 345 23   -1.3  0.075 -9.000 -9.000 -999.   49.     29.6  0.0960  0.72  1.00  0.50   5.0  15.0  285.1  2.0  0  0.00  100.  1011.  2 NAD-SFC NoSubs
10 12 11 345 24   -2.9  0.087 -9.000 -9.000 -999.   61.     19.9  0.0950  0.72  1.00  1.00 344.0  15.0  285.0  2.0  0  0.00  100.  1011.  2 NAD-SFC NoSubs
10 12 12 346  1   -5.2  0.105 -9.000 -9.000 -999.   82.     19.9  0.0800  0.72  1.00  1.50 328.0  15.0  284.6  2.0  0  0.00  100.  1011.  2 NAD-SFC NoSubs
10 12 12 346  2   -5.3  0.105 -9.000 -9.000 -999.   82.     19.9  0.0800  0.72  1.00  1.50 317.0  15.0  284.1  2.0  0  0.00  100.  1012.  2 NAD-SFC NoSubs
10 12 12 346  3   -5.3  0.105 -9.000 -9.000 -999.   82.     19.9  0.0800  0.72  1.00  1.50 313.0  15.0  283.8  2.0  0  0.00  100.  1012.  2 NAD-SFC NoSubs
10 12 12 346  4   -5.3  0.105 -9.000 -9.000 -999.   82.     19.9  0.0800  0.72  1.00  1.50 302.0  15.0  283.5  2.0  0  0.00  100.  1013.  2 NAD-SFC NoSubs
10 12 12 346  5   -2.8  0.085 -9.000 -9.000 -999.   59.     19.5  0.0800  0.72  1.00  1.00 315.0  15.0  283.4  2.0  0  0.00  100.  1013.  2 NAD-SFC NoSubs
10 12 12 346  6   -1.2  0.074 -9.000 -9.000 -999.   48.     29.2  0.0800  0.72  1.00  0.50 304.0  15.0  283.2  2.0  0  0.00  100.  1013.  2 NAD-SFC NoSubs
10 12 12 346  7   -1.0  0.065 -9.000 -9.000 -999.   40.     25.8  0.0200  0.72  1.00  0.50 263.0  15.0  283.1  2.0  0  0.00  100.  1014.  2 NAD-SFC NoSubs
10 12 12 346  8   -0.7  0.058 -9.000 -9.000 -999.   33.     23.6  0.0220  0.72  0.55  0.50 233.0  15.0  283.1  2.0  0  0.00  100.  1013.  2 NAD-SFC NoSubs
10 12 12 346  9   22.1  0.089  0.419  0.020  120.   64.     -2.9  0.0220  0.72  0.32  1.00 235.0  15.0  283.2  2.0  0  0.00  100.  1013.  2 NAD-SFC NoSubs
10 12 12 346 10   60.8  0.063  0.665  0.018  175.   38.     -1.0  0.0200  0.72  0.24  0.50 249.0  15.0  283.5  2.0  0  0.00  100.  1013.  2 NAD-SFC NoSubs
10 12 12 346 11   87.7 -9.000 -9.000 -9.000  238. -999. -99999.0  0.0471  0.72  0.22  0.00   0.0  15.0  284.0  2.0  0  0.00  100.  1013.  2 NAD-SFC NoSubs
10 12 12 346 12  100.5  0.089  0.942  0.015  301.   64.     -1.0  0.0950  0.72  0.21  0.50 359.0  15.0  285.0  2.0  0  0.00   97.  1012.  2 NAD-SFC NoSubs
10 12 12 346 13   98.8  0.136  0.988  0.014  352.  120.     -2.3  0.0960  0.72  0.21  1.00   8.0  15.0  286.2  2.0  0  0.00   91.  1011.  2 NAD-SFC NoSubs
10 12 12 346 14   82.7  0.174  0.964  0.013  391.  174.     -5.7  0.0960  0.72  0.22  1.50  15.0  15.0  288.1  2.0  0  0.00   83.  1010.  2 NAD-SFC NoSubs
10 12 12 346 15   52.7  0.166  0.858  0.012  432.  162.     -7.7  0.0960  0.72  0.26  1.50  15.0  15.0  289.1  2.0  0  0.00   78.  1009.  2 NAD-SFC NoSubs
10 12 12 346 16   11.7  0.188  0.524  0.012  440.  195.    -50.7  0.0960  0.72  0.36  2.10  15.0  15.0  289.0  2.0  0  0.00   80.  1008.  2 NAD-SFC NoSubs
10 12 12 346 17  -10.4  0.151 -9.000 -9.000 -999.  140.     29.4  0.0960  0.72  0.67  2.10   6.0  15.0  288.2  2.0  0  0.00   83.  1008.  2 NAD-SFC NoSubs
10 12 12 346 18   -5.5  0.108 -9.000 -9.000 -999.   86.     20.9  0.0960  0.72  1.00  1.50  11.0  15.0  287.2  2.0  0  0.00   88.  1008.  2 NAD-SFC NoSubs
10 12 12 346 19   -1.3  0.075 -9.000 -9.000 -999.   49.     29.6  0.0960  0.72  1.00  0.50   8.0  15.0  286.4  2.0  0  0.00   92.  1008.  2 NAD-SFC NoSubs
10 12 12 346 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0  285.8  2.0  0  0.00   96.  1008.  2 NAD-SFC NoSubs
10 12 12 346 21   -1.3  0.075 -9.000 -9.000 -999.   49.     29.6  0.0960  0.72  1.00  0.50   6.0  15.0  285.2  2.0  0  0.00   99.  1008.  2 NAD-SFC NoSubs
10 12 12 346 22   -2.9  0.087 -9.000 -9.000 -999.   61.     20.0  0.0960  0.72  1.00  1.00  15.0  15.0  283.9  2.0  0  0.00  100.  1008.  2 NAD-SFC NoSubs
10 12 12 346 23   -1.3  0.075 -9.000 -9.000 -999.   49.     29.7  0.0960  0.72  1.00  0.50  28.0  15.0  282.5  2.0  0  0.00  100.  1008.  2 NAD-SFC NoSubs
10 12 12 346 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0  282.2  2.0  0  0.00  100.  1008.  2 NAD-SFC NoSubs
10 12 13 347  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0  282.4  2.0  0  0.00  100.  1008.  2 NAD-SFC NoSubs
10 12 13 347  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0  282.2  2.0  0  0.00  100.  1008.  2 NAD-SFC NoSubs
10 12 13 347  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0  282.1  2.0  0  0.00  100.  1007.  2 NAD-SFC NoSubs
10 12 13 347  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0  282.0  2.0  0  0.00  100.  1007.  2 NAD-SFC NoSubs
10 12 13 347  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0  281.9  2.0  0  0.00  100.  1007.  2 NAD-SFC NoSubs
10 12 13 347  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0  281.6  2.0  0  0.00  100.  1007.  2 NAD-SFC NoSubs
10 12 13 347  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0  281.4  2.0  0  0.00  100.  1007.  2 NAD-SFC NoSubs
10 12 13 347  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.55  0.00   0.0  15.0  281.1  2.0  0  0.00  100.  1007.  2 NAD-SFC NoSubs
10 12 13 347  9   21.2 -9.000 -9.000 -9.000   67. -999. -99999.0  0.0471  0.72  0.32  0.00   0.0  15.0  281.6  2.0  0  0.00   98.  1007.  2 NAD-SFC NoSubs
10 12 13 347 10   60.3 -9.000 -9.000 -9.000  135. -999. -99999.0  0.0471  0.72  0.24  0.00   0.0  15.0  283.8  2.0  0  0.00   84.  1007.  2 NAD-SFC NoSubs
10 12 13 347 11   87.6 -9.000 -9.000 -9.000  201. -999. -99999.0  0.0471  0.72  0.22  0.00   0.0  15.0  285.8  2.0  0  0.00   72.  1007.  2 NAD-SFC NoSubs
10 12 13 347 12  100.7  0.086  0.927  0.015  284.   61.     -1.0  0.0800  0.72  0.21  0.50 319.0  15.0  287.2  2.0  0  0.00   63.  1007.  2 NAD-SFC NoSubs
10 12 13 347 13   99.1  0.131  0.988  0.014  349.  114.     -2.1  0.0800  0.72  0.21  1.00 320.0  15.0  288.2  2.0  0  0.00   57.  1006.  2 NAD-SFC NoSubs
10 12 13 347 14   82.8  0.129  0.971  0.014  397.  111.     -2.3  0.0800  0.72  0.22  1.00 325.0  15.0  288.8  2.0  0  0.00   54.  1005.  2 NAD-SFC NoSubs
10 12 13 347 15   52.5  0.079  0.862  0.014  436.   54.     -1.0  0.0800  0.72  0.26  0.50 312.0  15.0  288.8  2.0  0  0.00   56.  1004.  2 NAD-SFC NoSubs
10 12 13 347 16   11.6 -9.000 -9.000 -9.000  444. -999. -99999.0  0.0471  0.72  0.36  0.00   0.0  15.0  288.4  2.0  0  0.00   58.  1004.  2 NAD-SFC NoSubs
10 12 13 347 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.67  0.00   0.0  15.0  287.8  2.0  0  0.00   62.  1003.  2 NAD-SFC NoSubs
10 12 13 347 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0  286.9  2.0  0  0.00   67.  1003.  2 NAD-SFC NoSubs
10 12 13 347 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0  286.2  2.0  0  0.00   70.  1003.  2 NAD-SFC NoSubs
10 12 13 347 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0  285.8  2.0  0  0.00   73.  1004.  2 NAD-SFC NoSubs
10 12 13 347 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0  285.2  2.0  0  0.00   76.  1004.  2 NAD-SFC NoSubs
10 12 13 347 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0  284.6  2.0  0  0.00   78.  1004.  2 NAD-SFC NoSubs
10 12 13 347 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0  284.0  2.0  0  0.00   80.  1005.  2 NAD-SFC NoSubs
10 12 13 347 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0  283.2  2.0  0  0.00   83.  1005.  2 NAD-SFC NoSubs
10 12 14 348  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0  282.8  2.0  0  0.00   85.  1005.  2 NAD-SFC NoSubs
10 12 14 348  2   -1.0  0.067 -9.000 -9.000 -999.   42.     26.9  0.0310  0.72  1.00  0.50 109.0  15.0  282.2  2.0  0  0.00   86.  1005.  2 NAD-SFC NoSubs
10 12 14 348  3   -1.0  0.067 -9.000 -9.000 -999.   42.     26.9  0.0310  0.72  1.00  0.50  98.0  15.0  281.9  2.0  0  0.00   89.  1005.  2 NAD-SFC NoSubs
10 12 14 348  4   -1.1  0.069 -9.000 -9.000 -999.   43.     27.5  0.0400  0.72  1.00  0.50  87.0  15.0  281.2  2.0  0  0.00   93.  1005.  2 NAD-SFC NoSubs
10 12 14 348  5   -1.0  0.068 -9.000 -9.000 -999.   42.     26.9  0.0310  0.72  1.00  0.50  94.0  15.0  280.2  2.0  0  0.00   98.  1004.  2 NAD-SFC NoSubs
10 12 14 348  6   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0400  0.72  1.00  0.50  68.0  15.0  279.4  2.0  0  0.00  100.  1005.  2 NAD-SFC NoSubs
10 12 14 348  7   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0400  0.72  1.00  0.50  75.0  15.0  278.9  2.0  0  0.00  100.  1005.  2 NAD-SFC NoSubs
10 12 14 348  8   -0.8  0.061 -9.000 -9.000 -999.   37.     25.0  0.0400  0.72  0.56  0.50  72.0  15.0  278.5  2.0  0  0.00  100.  1005.  3 NAD-SFC NoSubs
10 12 14 348  9   21.7 -9.000 -9.000 -9.000   64. -999. -99999.0  0.0471  0.72  0.32  0.00   0.0  15.0  278.9  2.0  0  0.00  100.  1005.  3 NAD-SFC NoSubs
10 12 14 348 10   60.6 -9.000 -9.000 -9.000  192. -999. -99999.0  0.0471  0.72  0.25  0.00   0.0  15.0  281.8  2.0  0  0.00   88.  1004.  3 NAD-SFC NoSubs
10 12 14 348 11   88.1 -9.000 -9.000 -9.000  336. -999. -99999.0  0.0471  0.72  0.22  0.00   0.0  15.0  285.5  2.0  0  0.00   66.  1004.  3 NAD-SFC NoSubs
10 12 14 348 12  100.5 -9.000 -9.000 -9.000  455. -999. -99999.0  0.0471  0.72  0.21  0.00   0.0  15.0  286.8  2.0  0  0.00   62.  1004.  4 NAD-SFC NoSubs
10 12 14 348 13   96.3 -9.000 -9.000 -9.000  552. -999. -99999.0  0.0471  0.72  0.21  0.00   0.0  15.0  287.8  2.0  0  0.00   57.  1003.  5 NAD-SFC NoSubs
10 12 14 348 14   76.7 -9.000 -9.000 -9.000  618. -999. -99999.0  0.0471  0.72  0.22  0.00   0.0  15.0  288.4  2.0  0  0.00   55.  1002.  6 NAD-SFC NoSubs
10 12 14 348 15   50.5 -9.000 -9.000 -9.000  658. -999. -99999.0  0.0471  0.72  0.26  0.00   0.0  15.0  288.6  2.0  0  0.00   55.  1002.  6 NAD-SFC NoSubs
10 12 14 348 16   14.9 -9.000 -9.000 -9.000  666. -999. -99999.0  0.0471  0.72  0.36  0.00   0.0  15.0  288.2  2.0  0  0.00   58.  1001.  6 NAD-SFC NoSubs
10 12 14 348 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.67  0.00   0.0  15.0  287.8  2.0  0  0.00   61.  1001.  7 NAD-SFC NoSubs
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10 12 14 348 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 287.1 2.0 0 0.00 65. 1001.  6 NAD-SFC NoSubs
10 12 14 348 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 286.8 2.0 0 0.00 67. 1001.  6 NAD-SFC NoSubs
10 12 14 348 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 286.8 2.0 0 0.00 69. 1002.  5 NAD-SFC NoSubs
10 12 14 348 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 286.5 2.0 0 0.00 73. 1002.  5 NAD-SFC NoSubs
10 12 14 348 22   -1.1  0.069 -9.000 -9.000 -999.   44.     27.8 0.0960 0.72 1.00 0.50  19.0 15.0 286.0 2.0 0 0.00 79. 1002.  6 NAD-SFC NoSubs
10 12 14 348 23   -0.9  0.065 -9.000 -9.000 -999.   40.     26.3 0.0400 0.72 1.00 0.50  63.0 15.0 285.8 2.0 0 0.00 83. 1003.  5 NAD-SFC NoSubs
10 12 14 348 24   -0.9  0.064 -9.000 -9.000 -999.   39.     25.7 0.0310 0.72 1.00 0.50 110.0 15.0 285.4 2.0 0 0.00 85. 1002.  5 NAD-SFC NoSubs
10 12 15 349  1   -0.9  0.063 -9.000 -9.000 -999.   38.     25.5 0.0280 0.72 1.00 0.50 145.0 15.0 284.9 2.0 0 0.00 88. 1002.  5 NAD-SFC NoSubs
10 12 15 349  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 284.4 2.0 0 0.00 92. 1002.  5 NAD-SFC NoSubs
10 12 15 349  3   -2.1  0.074 -9.000 -9.000 -999.   48.     17.4 0.0420 0.72 1.00 1.00 289.0 15.0 284.0 2.0 0 0.00 95. 1002.  6 NAD-SFC NoSubs
10 12 15 349  4  -15.2  0.183 -9.000 -9.000 -999.  187.     35.8 0.0800 0.72 1.00 2.60 310.0 15.0 283.4 2.0 0 0.00 97. 1002.  4 NAD-SFC NoSubs
10 12 15 349  5  -32.7  0.307 -9.000 -9.000 -999.  408.     79.1 0.0950 0.72 1.00 4.10 330.0 15.0 282.9 2.0 0 0.00 98. 1002.  3 NAD-SFC NoSubs
10 12 15 349  6  -27.5  0.268 -9.000 -9.000 -999.  334.     62.6 0.0950 0.72 1.00 3.60 335.0 15.0 282.8 2.0 0 0.00 99. 1003.  4 NAD-SFC NoSubs
10 12 15 349  7  -25.3  0.259 -9.000 -9.000 -999.  316.     61.4 0.0800 0.72 1.00 3.60 316.0 15.0 282.8 2.0 0 0.00 100. 1003.  5 NAD-SFC NoSubs
10 12 15 349  8  -18.9  0.261 -9.000 -9.000 -999.  320.     83.8 0.0800 0.72 0.56 3.60 315.0 15.0 282.8 2.0 0 0.00 100. 1004.  5 NAD-SFC NoSubs
10 12 15 349  9   22.9  0.296  0.412 0.005  110.  387.   -101.9 0.0800 0.72 0.33 3.60 313.0 15.0 282.6 2.0 0 0.00 100. 1004.  4 NAD-SFC NoSubs
10 12 15 349 10   59.3  0.277  0.864 0.005  389.  350.    -32.1 0.0800 0.72 0.25 3.10 307.0 15.0 282.8 2.0 0 0.00 100. 1004.  5 NAD-SFC NoSubs
10 12 15 349 11   84.5  0.249  1.136 0.005  622.  298.    -16.3 0.0800 0.72 0.22 2.60 307.0 15.0 282.9 2.0 0 0.00 97. 1004.  5 NAD-SFC NoSubs
10 12 15 349 12   99.3  0.252  1.276 0.005  750.  304.    -14.5 0.0800 0.72 0.21 2.60 308.0 15.0 283.1 2.0 0 0.00 96. 1004.  4 NAD-SFC NoSubs
10 12 15 349 13   97.7  0.252  1.322 0.005  847.  303.    -14.6 0.0800 0.72 0.21 2.60 311.0 15.0 283.4 2.0 0 0.00 94. 1003.  4 NAD-SFC NoSubs
10 12 15 349 14   82.2  0.248  1.283 0.005  921.  297.    -16.6 0.0800 0.72 0.22 2.60 306.0 15.0 283.8 2.0 0 0.00 91. 1003.  3 NAD-SFC NoSubs
10 12 15 349 15   52.5  0.240  1.123 0.005  965.  281.    -23.4 0.0800 0.72 0.26 2.60 306.0 15.0 283.9 2.0 0 0.00 89. 1003.  3 NAD-SFC NoSubs
10 12 15 349 16   12.3  0.218  0.694 0.005  976.  244.    -75.2 0.0800 0.72 0.36 2.60 308.0 15.0 283.9 2.0 0 0.00 90. 1002.  3 NAD-SFC NoSubs
10 12 15 349 17   -9.7  0.145 -9.000 -9.000 -999.  134.     28.1 0.0800 0.72 0.66 2.10 310.0 15.0 283.8 2.0 0 0.00 90. 1002.  3 NAD-SFC NoSubs
10 12 15 349 18   -2.7  0.084 -9.000 -9.000 -999.   59.     19.4 0.0800 0.72 1.00 1.00 316.0 15.0 283.8 2.0 0 0.00 91. 1003.  3 NAD-SFC NoSubs
10 12 15 349 19   -1.0  0.068 -9.000 -9.000 -999.   43.     27.3 0.0420 0.72 1.00 0.50 293.0 15.0 283.6 2.0 0 0.00 91. 1003.  3 NAD-SFC NoSubs
10 12 15 349 20   -1.0  0.067 -9.000 -9.000 -999.   42.     26.9 0.0420 0.72 1.00 0.50 288.0 15.0 283.5 2.0 0 0.00 92. 1003.  4 NAD-SFC NoSubs
10 12 15 349 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 283.2 2.0 0 0.00 94. 1003.  4 NAD-SFC NoSubs
10 12 15 349 22   -1.1  0.071 -9.000 -9.000 -999.   46.     28.6 0.0950 0.72 1.00 0.50 344.0 15.0 282.8 2.0 0 0.00 96. 1003.  5 NAD-SFC NoSubs
10 12 15 349 23   -4.5  0.107 -9.000 -9.000 -999.   83.     24.0 0.0950 0.72 1.00 1.50 340.0 15.0 282.6 2.0 0 0.00 97. 1004.  8 NAD-SFC NoSubs
10 12 15 349 24  -10.4  0.187 -9.000 -9.000 -999.  193.     55.7 0.0800 0.72 1.00 2.60 329.0 15.0 282.4 2.0 0 0.00 99. 1003. 10 NAD-SFC NoSubs
10 12 16 350  1  -17.0  0.223 -9.000 -9.000 -999.  252.     58.3 0.0800 0.72 1.00 3.10 319.0 15.0 282.2 2.0 0 0.00 99. 1004.  8 NAD-SFC NoSubs
10 12 16 350  2  -27.3  0.297 -9.000 -9.000 -999.  389.     86.1 0.0800 0.72 1.00 4.10 318.0 15.0 282.2 2.0 0 0.00 94. 1004.  6 NAD-SFC NoSubs
10 12 16 350  3  -36.6  0.372 -9.000 -9.000 -999.  545.    126.6 0.0800 0.72 1.00 5.10 329.0 15.0 281.8 2.0 0 0.00 92. 1004.  5 NAD-SFC NoSubs
10 12 16 350  4  -38.0  0.386 -9.000 -9.000 -999.  575.    135.5 0.0950 0.72 1.00 5.10 333.0 15.0 281.1 2.0 0 0.00 91. 1005.  5 NAD-SFC NoSubs
10 12 16 350  5  -22.0  0.390 -9.000 -9.000 -999.  585.    242.3 0.0950 0.72 1.00 5.10 345.0 15.0 280.5 2.0 0 0.00 89. 1005. 10 NAD-SFC NoSubs
10 12 16 350  6  -19.8  0.351 -9.000 -9.000 -999.  499.    195.1 0.0950 0.72 1.00 4.60 344.0 15.0 280.2 2.0 0 0.00 86. 1005. 10 NAD-SFC NoSubs
10 12 16 350  7  -17.6  0.311 -9.000 -9.000 -999.  417.    153.4 0.0950 0.72 1.00 4.10 339.0 15.0 280.0 2.0 0 0.00 84. 1006. 10 NAD-SFC NoSubs
10 12 16 350  8  -13.4  0.263 -9.000 -9.000 -999.  324.    121.4 0.0800 0.72 0.57 3.60 328.0 15.0 279.8 2.0 0 0.00 82. 1006. 10 NAD-SFC NoSubs
10 12 16 350  9   21.2  0.231  0.527 0.006  247.  268.    -52.4 0.0950 0.72 0.33 2.60 333.0 15.0 279.6 2.0 0 0.00 81. 1006.  6 NAD-SFC NoSubs
10 12 16 350 10   59.3  0.162  0.825 0.006  340.  158.     -6.5 0.0800 0.72 0.25 1.50 314.0 15.0 280.2 2.0 0 0.00 77. 1006.  3 NAD-SFC NoSubs
10 12 16 350 11   86.3  0.102  1.051 0.006  482.   79.     -1.1 0.0200 0.72 0.22 1.00 267.0 15.0 281.1 2.0 0 0.00 73. 1005.  3 NAD-SFC NoSubs
10 12 16 350 12   98.4  0.104  1.204 0.006  636.   80.     -1.0 0.0200 0.72 0.21 1.00 265.0 15.0 281.6 2.0 0 0.00 72. 1005.  2 NAD-SFC NoSubs
10 12 16 350 13   97.1 -9.000 -9.000 -9.000  727. -999. -99999.0 0.0471 0.72 0.21 0.00   0.0 15.0 283.0 2.0 0 0.00 69. 1004.  2 NAD-SFC NoSubs
10 12 16 350 14   81.2 -9.000 -9.000 -9.000  791. -999. -99999.0 0.0471 0.72 0.22 0.00   0.0 15.0 284.1 2.0 0 0.00 65. 1003.  2 NAD-SFC NoSubs
10 12 16 350 15   51.5  0.126  1.061 0.005  829.  107.     -3.4 0.0950 0.72 0.26 1.00 353.0 15.0 284.8 2.0 0 0.00 62. 1002.  2 NAD-SFC NoSubs
10 12 16 350 16   11.0 -9.000 -9.000 -9.000  837. -999. -99999.0 0.0471 0.72 0.36 0.00   0.0 15.0 285.1 2.0 0 0.00 56. 1002.  2 NAD-SFC NoSubs
10 12 16 350 17    0.2 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 0.66 0.00   0.0 15.0 284.4 2.0 0 0.00 59. 1002.  2 NAD-SFC NoSubs
10 12 16 350 18  -10.6  0.150 -9.000 -9.000 -999.  140.     28.5 0.0960 0.72 1.00 2.10   9.0 15.0 283.2 2.0 0 0.00 63. 1002.  2 NAD-SFC NoSubs
10 12 16 350 19   -2.9  0.087 -9.000 -9.000 -999.   62.     20.0 0.0960 0.72 1.00 1.00  13.0 15.0 282.2 2.0 0 0.00 68. 1002.  2 NAD-SFC NoSubs
10 12 16 350 20   -1.2  0.074 -9.000 -9.000 -999.   48.     29.3 0.0800 0.72 1.00 0.50 316.0 15.0 281.4 2.0 0 0.00 74. 1002.  2 NAD-SFC NoSubs
10 12 16 350 21   -2.8  0.085 -9.000 -9.000 -999.   60.     19.5 0.0800 0.72 1.00 1.00 302.0 15.0 280.8 2.0 0 0.00 78. 1002.  2 NAD-SFC NoSubs
10 12 16 350 22   -2.8  0.085 -9.000 -9.000 -999.   60.     19.5 0.0800 0.72 1.00 1.00 328.0 15.0 280.5 2.0 0 0.00 79. 1002.  2 NAD-SFC NoSubs
10 12 16 350 23   -2.9  0.087 -9.000 -9.000 -999.   62.     20.0 0.0950 0.72 1.00 1.00 341.0 15.0 280.6 2.0 0 0.00 79. 1002.  2 NAD-SFC NoSubs
10 12 16 350 24   -2.9  0.086 -9.000 -9.000 -999.   61.     19.9 0.0950 0.72 1.00 1.00 345.0 15.0 280.8 2.0 0 0.00 78. 1002.  3 NAD-SFC NoSubs
10 12 17 351  1   -5.2  0.105 -9.000 -9.000 -999.   82.     20.0 0.0800 0.72 1.00 1.50 320.0 15.0 280.9 2.0 0 0.00 77. 1002.  3 NAD-SFC NoSubs
10 12 17 351  2   -5.2  0.105 -9.000 -9.000 -999.   82.     20.0 0.0800 0.72 1.00 1.50 315.0 15.0 281.0 2.0 0 0.00 77. 1002.  3 NAD-SFC NoSubs
10 12 17 351  3   -2.7  0.083 -9.000 -9.000 -999.   58.     19.3 0.0800 0.72 1.00 1.00 323.0 15.0 281.0 2.0 0 0.00 77. 1002.  4 NAD-SFC NoSubs
10 12 17 351  4   -2.2  0.076 -9.000 -9.000 -999.   50.     17.6 0.0420 0.72 1.00 1.00 286.0 15.0 281.2 2.0 0 0.00 78. 1001.  5 NAD-SFC NoSubs
10 12 17 351  5   -3.0  0.091 -9.000 -9.000 -999.   66.     22.5 0.0420 0.72 1.00 1.50 278.0 15.0 281.2 2.0 0 0.00 78. 1001. 10 NAD-SFC NoSubs
10 12 17 351  6   -2.5  0.081 -9.000 -9.000 -999.   55.     18.8 0.0200 0.72 1.00 1.50 256.0 15.0 281.9 2.0 0 0.00 74. 1001. 10 NAD-SFC NoSubs
10 12 17 351  7   -5.0  0.116 -9.000 -9.000 -999.   95.     27.4 0.0200 0.72 1.00 2.10 267.0 15.0 282.1 2.0 0 0.00 75. 1001. 10 NAD-SFC NoSubs
10 12 17 351  8   -2.4  0.081 -9.000 -9.000 -999.   55.     19.9 0.0200 0.72 0.57 1.50 269.0 15.0 282.8 2.0 0 0.00 73. 1001. 10 NAD-SFC NoSubs
10 12 17 351  9    1.2  0.069  0.085 0.008   19.   44.    -25.8 0.0200 0.72 0.33 1.00 257.0 15.0 283.2 2.0 0 0.00 72. 1001. 10 NAD-SFC NoSubs
10 12 17 351 10   11.0  0.051  0.271 0.007   64.   28.     -1.1 0.0200 0.72 0.25 0.50 264.0 15.0 283.8 2.0 0 0.00 71. 1001. 10 NAD-SFC NoSubs
10 12 17 351 11   17.9  0.071  0.382 0.005  110.   46.     -1.8 0.0950 0.72 0.22 0.50 360.0 15.0 284.2 2.0 0 0.00 70. 1001. 10 NAD-SFC NoSubs
10 12 17 351 12   21.2  0.114  0.465 0.005  169.   92.     -6.2 0.0950 0.72 0.21 1.00 346.0 15.0 284.2 2.0 0 0.00 72. 1000. 10 NAD-SFC NoSubs
10 12 17 351 13   20.8  0.195  0.501 0.005  214.  207.    -31.8 0.0950 0.72 0.21 2.10 343.0 15.0 284.1 2.0 0 0.00 76. 1000. 10 NAD-SFC NoSubs
10 12 17 351 14   16.8  0.228  0.493 0.005  255.  262.    -63.2 0.0950 0.72 0.22 2.60 338.0 15.0 284.0 2.0 0 0.00 79. 1000. 10 NAD-SFC NoSubs
10 12 17 351 15    9.2  0.258  0.415 0.005  274.  315.   -166.3 0.0950 0.72 0.26 3.10 343.0 15.0 283.6 2.0 0 0.00 84.  999. 10 NAD-SFC NoSubs
10 12 17 351 16   -1.7  0.242 -9.000 -9.000 -999.  286.    739.0 0.0950 0.72 0.36 3.10 339.0 15.0 283.4 2.0 0 0.00 86.  999. 10 NAD-SFC NoSubs
10 12 17 351 17  -12.6  0.233 -9.000 -9.000 -999.  269.     89.1 0.0950 0.72 0.66 3.10 344.0 15.0 283.2 2.0 0 0.00 86.  999. 10 NAD-SFC NoSubs
10 12 17 351 18   -7.3  0.149 -9.000 -9.000 -999.  140.     39.8 0.0800 0.72 1.00 2.10 324.0 15.0 283.2 2.0 0 0.00 88.  999. 10 NAD-SFC NoSubs
10 12 17 351 19   -2.1  0.076 -9.000 -9.000 -999.   52.     18.8 0.0800 0.72 1.00 1.00 313.0 15.0 283.1 2.0 0 0.00 90.  999.  8 NAD-SFC NoSubs
10 12 17 351 20   -0.8  0.060 -9.000 -9.000 -999.   35.     24.4 0.0310 0.72 1.00 0.50 118.0 15.0 283.2 2.0 0 0.25 90.  999.  7 NAD-SFC NoSubs
10 12 17 351 21  -11.0  0.154 -9.000 -9.000 -999.  145.     29.5 0.0310 0.72 1.00 2.60 119.0 15.0 284.0 2.0 0 0.51 90.  999.  6 NAD-SFC NoSubs
10 12 17 351 22  -23.7  0.245 -9.000 -9.000 -999.  291.     55.4 0.0280 0.72 1.00 4.10 130.0 15.0 284.6 2.0 0 0.76 91.  999.  5 NAD-SFC NoSubs
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10	12	17	351	23	-26.7	0.277	-9.000	-9.000	-999.	349.	70.5	0.0280	0.72	1.00	4.60	129.0	15.0	284.9	2.0	0	1.02	94.	999.	5	NAD-SFC	NoSubs
10	12	17	351	24	-29.7	0.308	-9.000	-9.000	-999.	410.	87.6	0.0280	0.72	1.00	5.10	137.0	15.0	285.2	2.0	0	1.02	95.	999.	5	NAD-SFC	NoSubs
10	12	18	352	1	-27.9	0.308	-9.000	-9.000	-999.	411.	93.7	0.0280	0.72	1.00	5.10	130.0	15.0	285.4	2.0	0	1.27	96.	999.	6	NAD-SFC	NoSubs
10	12	18	352	2	-27.8	0.308	-9.000	-9.000	-999.	411.	93.8	0.0280	0.72	1.00	5.10	130.0	15.0	285.5	2.0	0	1.52	97.	999.	6	NAD-SFC	NoSubs
10	12	18	352	3	-29.7	0.308	-9.000	-9.000	-999.	410.	87.7	0.0280	0.72	1.00	5.10	126.0	15.0	285.6	2.0	0	1.52	97.	1000.	5	NAD-SFC	NoSubs
10	12	18	352	4	-26.1	0.314	-9.000	-9.000	-999.	422.	105.8	0.0310	0.72	1.00	5.10	117.0	15.0	285.8	2.0	0	1.78	97.	1000.	7	NAD-SFC	NoSubs
10	12	18	352	5	-17.2	0.311	-9.000	-9.000	-999.	417.	157.1	0.0280	0.72	1.00	5.10	120.0	15.0	285.8	2.0	0	2.03	98.	1000.	10	NAD-SFC	NoSubs
10	12	18	352	6	-17.4	0.317	-9.000	-9.000	-999.	428.	162.5	0.0310	0.72	1.00	5.10	117.0	15.0	285.8	2.0	0	2.29	98.	1000.	10	NAD-SFC	NoSubs
10	12	18	352	7	-17.2	0.311	-9.000	-9.000	-999.	417.	157.2	0.0280	0.72	1.00	5.10	125.0	15.0	285.9	2.0	0	2.03	97.	1001.	10	NAD-SFC	NoSubs
10	12	18	352	8	-15.4	0.312	-9.000	-9.000	-999.	419.	176.7	0.0280	0.72	0.57	5.10	121.0	15.0	285.9	2.0	0	2.29	97.	1001.	10	NAD-SFC	NoSubs
10	12	18	352	9	1.7	0.370	0.110	0.005	28.	540.	-2678.5	0.0310	0.72	0.33	5.70	116.0	15.0	285.9	2.0	0	2.29	96.	1001.	10	NAD-SFC	NoSubs
10	12	18	352	10	11.4	0.334	0.302	0.005	86.	463.	-289.3	0.0280	0.72	0.25	5.10	124.0	15.0	285.9	2.0	0	2.29	96.	1001.	10	NAD-SFC	NoSubs
10	12	18	352	11	18.3	0.343	0.428	0.005	152.	482.	-196.0	0.0310	0.72	0.22	5.10	119.0	15.0	286.1	2.0	0	2.29	97.	1001.	10	NAD-SFC	NoSubs
10	12	18	352	12	21.7	0.309	0.501	0.005	207.	413.	-121.5	0.0280	0.72	0.21	4.60	131.0	15.0	286.2	2.0	0	2.03	97.	1001.	10	NAD-SFC	NoSubs
10	12	18	352	13	21.4	0.309	0.538	0.005	259.	412.	-122.9	0.0280	0.72	0.21	4.60	135.0	15.0	286.4	2.0	0	2.03	97.	1000.	10	NAD-SFC	NoSubs
10	12	18	352	14	17.4	0.307	0.524	0.005	294.	408.	-147.7	0.0280	0.72	0.22	4.60	134.0	15.0	286.5	2.0	0	1.78	98.	1000.	10	NAD-SFC	NoSubs
10	12	18	352	15	10.0	0.272	0.445	0.005	313.	340.	-178.9	0.0280	0.72	0.26	4.10	130.0	15.0	286.5	2.0	0	2.29	99.	999.	10	NAD-SFC	NoSubs
10	12	18	352	16	-0.3	0.261	-9.000	-9.000	-999.	320.	5876.9	0.0280	0.72	0.36	4.10	141.0	15.0	286.5	2.0	0	2.54	99.	999.	10	NAD-SFC	NoSubs
10	12	18	352	17	-13.2	0.248	-9.000	-9.000	-999.	297.	103.2	0.0280	0.72	0.66	4.10	129.0	15.0	286.6	2.0	0	2.79	100.	998.	10	NAD-SFC	NoSubs
10	12	18	352	18	-15.3	0.280	-9.000	-9.000	-999.	355.	127.1	0.0280	0.72	1.00	4.60	133.0	15.0	286.8	2.0	0	3.05	100.	998.	10	NAD-SFC	NoSubs
10	12	18	352	19	-15.3	0.280	-9.000	-9.000	-999.	355.	127.1	0.0280	0.72	1.00	4.60	129.0	15.0	286.8	2.0	0	3.30	100.	998.	10	NAD-SFC	NoSubs
10	12	18	352	20	-15.3	0.280	-9.000	-9.000	-999.	355.	127.2	0.0280	0.72	1.00	4.60	134.0	15.0	286.9	2.0	0	3.56	100.	999.	10	NAD-SFC	NoSubs
10	12	18	352	21	-15.3	0.280	-9.000	-9.000	-999.	355.	127.3	0.0280	0.72	1.00	4.60	136.0	15.0	287.1	2.0	0	3.30	100.	999.	10	NAD-SFC	NoSubs
10	12	18	352	22	-18.4	0.247	-9.000	-9.000	-999.	294.	72.8	0.0280	0.72	1.00	4.10	138.0	15.0	287.2	2.0	0	2.79	100.	999.	8	NAD-SFC	NoSubs
10	12	18	352	23	-22.9	0.277	-9.000	-9.000	-999.	351.	83.0	0.0280	0.72	1.00	4.60	144.0	15.0	287.2	2.0	0	2.29	100.	999.	7	NAD-SFC	NoSubs
10	12	18	352	24	-20.3	0.246	-9.000	-9.000	-999.	293.	65.3	0.0280	0.72	1.00	4.10	137.0	15.0	287.4	2.0	0	2.03	100.	998.	7	NAD-SFC	NoSubs
10	12	19	353	1	-20.3	0.246	-9.000	-9.000	-999.	293.	65.4	0.0280	0.72	1.00	4.10	126.0	15.0	287.6	2.0	0	1.78	99.	998.	7	NAD-SFC	NoSubs
10	12	19	353	2	-22.8	0.277	-9.000	-9.000	-999.	351.	83.1	0.0280	0.72	1.00	4.60	130.0	15.0	287.8	2.0	0	1.52	99.	997.	7	NAD-SFC	NoSubs
10	12	19	353	3	-22.8	0.277	-9.000	-9.000	-999.	351.	83.2	0.0280	0.72	1.00	4.60	120.0	15.0	287.9	2.0	0	1.27	98.	997.	7	NAD-SFC	NoSubs
10	12	19	353	4	-23.2	0.282	-9.000	-9.000	-999.	360.	86.1	0.0310	0.72	1.00	4.60	117.0	15.0	288.0	2.0	0	1.02	98.	996.	7	NAD-SFC	NoSubs
10	12	19	353	5	-20.2	0.246	-9.000	-9.000	-999.	293.	65.5	0.0280	0.72	1.00	4.10	120.0	15.0	288.0	2.0	0	1.02	98.	996.	7	NAD-SFC	NoSubs
10	12	19	353	6	-18.3	0.247	-9.000	-9.000	-999.	294.	73.0	0.0280	0.72	1.00	4.10	131.0	15.0	288.0	2.0	0	1.02	98.	996.	8	NAD-SFC	NoSubs
10	12	19	353	7	-11.8	0.217	-9.000	-9.000	-999.	243.	76.7	0.0280	0.72	1.00	3.60	130.0	15.0	288.0	2.0	0	1.52	98.	995.	10	NAD-SFC	NoSubs
10	12	19	353	8	-13.4	0.216	-9.000	-9.000	-999.	241.	66.7	0.0280	0.72	0.58	3.60	135.0	15.0	288.0	2.0	0	1.52	98.	995.	7	NAD-SFC	NoSubs
10	12	19	353	9	22.7	0.250	0.389	0.005	92.	300.	-61.2	0.0280	0.72	0.33	3.60	128.0	15.0	288.1	2.0	0	1.02	97.	995.	5	NAD-SFC	NoSubs
10	12	19	353	10	59.0	0.264	0.795	0.005	302.	325.	-27.5	0.0280	0.72	0.25	3.60	131.0	15.0	288.2	2.0	0	0.51	95.	995.	5	NAD-SFC	NoSubs
10	12	19	353	11	84.6	0.274	1.082	0.005	531.	345.	-21.7	0.0310	0.72	0.22	3.60	118.0	15.0	288.5	2.0	0	0.25	93.	995.	5	NAD-SFC	NoSubs
10	12	19	353	12	97.2	0.277	1.253	0.005	718.	350.	-19.4	0.0310	0.72	0.21	3.60	110.0	15.0	288.9	2.0	0	0.25	91.	994.	5	NAD-SFC	NoSubs
10	12	19	353	13	96.1	0.185	1.317	0.005	843.	194.	-5.8	0.0310	0.72	0.21	2.10	112.0	15.0	289.2	2.0	0	0.00	89.	994.	5	NAD-SFC	NoSubs
10	12	19	353	14	81.5	0.066	1.291	0.005	936.	54.	-1.0	0.0200	0.72	0.22	0.50	267.0	15.0	289.6	2.0	0	0.00	87.	995.	5	NAD-SFC	NoSubs
10	12	19	353	15	51.2	0.309	1.127	0.005	993.	413.	-51.3	0.0800	0.72	0.26	3.60	301.0	15.0	289.5	2.0	0	0.00	87.	995.	6	NAD-SFC	NoSubs
10	12	19	353	16	16.0	0.326	0.770	0.005	1009.	447.	-192.0	0.0420	0.72	0.36	4.60	289.0	15.0	288.5	2.0	0	0.00	87.	996.	5	NAD-SFC	NoSubs
10	12	19	353	17	-23.4	0.263	-9.000	-9.000	-999.	326.	69.2	0.0420	0.72	0.65	4.10	291.0	15.0	287.8	2.0	0	0.00	86.	996.	5	NAD-SFC	NoSubs
10	12	19	353	18	-17.9	0.195	-9.000	-9.000	-999.	209.	36.9	0.0420	0.72	1.00	3.10	299.0	15.0	287.6	2.0	0	0.00	84.	997.	4	NAD-SFC	NoSubs
10	12	19	353	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	287.2	2.0	0	0.00	83.	998.	4	NAD-SFC	NoSubs
10	12	19	353	20	-12.3	0.160	-9.000	-9.000	-999.	154.	29.6	0.0400	0.72	1.00	2.60	75.0	15.0	286.8	2.0	0	0.00	84.	998.	4	NAD-SFC	NoSubs
10	12	19	353	21	-20.9	0.217	-9.000	-9.000	-999.	243.	43.8	0.0310	0.72	1.00	3.60	97.0	15.0	286.1	2.0	0	0.51	87.	999.	5	NAD-SFC	NoSubs
10	12	19	353	22	-19.7	0.218	-9.000	-9.000	-999.	244.	46.8	0.0310	0.72	1.00	3.60	100.0	15.0	285.6	2.0	0	0.76	90.	999.	6	NAD-SFC	NoSubs
10	12	19	353	23	-22.6	0.250	-9.000	-9.000	-999.	300.	61.5	0.0310	0.72	1.00	4.10	102.0	15.0	285.1	2.0	0	0.51	91.	999.	6	NAD-SFC	NoSubs
10	12	19	353	24	-24.1	0.249	-9.000	-9.000	-999.	299.	57.3	0.0310	0.72	1.00	4.10	110.0	15.0	284.8	2.0	0	0.51	89.	998.	5	NAD-SFC	NoSubs
10	12	20	354	1	-26.7	0.277	-9.000	-9.000	-999.	349.	70.4	0.0280	0.72	1.00	4.60	134.0	15.0	284.5	2.0	0	0.25	88.	998.	5	NAD-SFC	NoSubs
10	12	20	354	2	-29.8	0.308	-9.000	-9.000	-999.	410.	87.2	0.0280	0.72	1.00	5.10	142.0	15.0	284.2	2.0	0	0.25	87.	998.	5	NAD-SFC	NoSubs
10	12	20	354	3	-29.8	0.308	-9.000	-9.000	-999.	410.	87.2	0.0280	0.72	1.00	5.10	141.0	15.0	284.0	2.0	0	0.00	87.	998.	5	NAD-SFC	NoSubs
10	12	20	354	4	-26.8	0.277	-9.000	-9.000	-999.	349.	70.3	0.0280	0.72	1.00	4.60	136.0	15.0	283.9	2.0	0	0.00	87.	998.	5	NAD-SFC	NoSubs
10	12	20	354	5	-28.0	0.308	-9.000	-9.000	-999.	411.	93.2	0.0280	0.72	1.00	5.10	137.0	15.0	283.8	2.0	0	0.00	88.	998.	6	NAD-SFC	NoSubs
10	12	20	354	6	-20.9	0.278	-9.000	-9.000	-999.	352.	91.3	0.0280	0.72	1.00	4.60	141.0	15.0	283.8	2.0	0	0.25	89.	998.	8	NAD-SFC	NoSubs
10	12	20	354	7	-13.7	0.248	-9.000	-9.000	-999.	297.	99.0	0.0280	0.72	1.00	4.10	136.0	15.0	283.8	2.0	0	0.25	90.	998.	10	NAD-SFC	NoSubs
10	12	20	354	8	-16.3	0.247	-9.000	-9.000	-999.	295.	82.5	0.0280	0.72	0.58	4.10	141.0	15.0	283.6	2.0	0	0.51	91.	998.	7	NAD-SFC	NoSubs
10	12	20	354	9	18.4	0.277	0.455	0.005	182.	351.	-103.3	0.0280	0.72	0.33	4.10	136.0	15.0	283.6	2.0	0	0.25	91.	998.	7	NAD-SFC	NoSubs
10	12	20	354	10	54.5	0.292	0.803	0.005	338.	379.	-40.7	0.0280	0.72	0.25	4.10	138.0	15.0	283.9	2.0	0	0.25	90.	998.	6	NAD-SFC	NoSubs
10	12	20	354	11	78.4	0.269	1.037	0.005	507.	335.	-22.0	0.0280	0.72	0.22	3.60	136.0	15.0	284.2	2.0	0	0.25	87.	998.	6	NAD-SFC	NoSubs
10	12	20	354	12	90.3	0.242	1.189	0.005	663.	285.	-13.9	0.0280	0.72	0.21	3.10	143.0	15.0	284.6	2.0	0	0.25	85.	997.	6	NAD-SFC	NoSubs
10	12	20	354	13	89.3	0.211	1.263	0.005	803.	233.	-9.4	0.0280	0.72	0.21	2.60	139.0	15.0	284.8	2.0	0	0.51	84.	997.	6	NAD-SFC	NoSubs
10	12	20	354	14	67.8	0.207	1.195	0.005	895.	225.	-11.5	0.0280	0.72	0.22	2.60	132.0	15.0	284.8	2.0	0	0.51	85.	997.	7	NAD-SFC	NoSubs
10	12	20	354	15	36.8	0.167	0.992	0.005	941.	164.	-11.3	0.0280	0.72	0.26	2.10	138.0	15.0	284.8	2.0	0	0.51	88.	996.	8	NAD-SFC	NoSubs
10	12	20	354	16	-0.4	0.090	-9.000	-9.000	-999.	66.	174.2	0.0240	0.72	0.36	1.50	150.0	15.0	284.5	2.0	0	0.51	92.	996.	10	NAD-SFC	NoSubs
10	12	20	354	17	-3.0	0.084	-9.000	-9.000	-999.	58.	17.7	0.0240	0.72	0.65	1.50	152.0	15.0	284.2	2.0	0	0.51	94.	996.	8	NAD-SFC	NoSubs
10	12	20	354	18	-3.3	0.085	-9.000	-9.000	-999.	59.	16.6	0.0240	0.72	1.00	1.50	152.0	15.0	284.0	2.0	0	0.25	95.	997.	7	NAD-SFC	NoSubs
10	12	20	354	19	-6.6	0.117	-9.000	-9.000	-999.	96.	21.6	0.0240	0.72	1.00	2.10	161.0	15.0	284.0	2.0	0	0.25	96.	997.	6	NAD-SFC	NoSubs
10	12	20	354	20	-10.7	0.151	-9.000	-9.000	-999.	141.	28.8	0.0280	0.72	1.00	2.60	149.0	15.0	283.9	2.0	0	0.00	96.	998.	6	NAD-SFC	NoSubs
10	12	20	354	21	-15.8	0.182	-9.000	-9.000	-999.	187.	34.0	0.0280	0.72	1.00	3.10	148.0	15.0	283.9	2.0	0	0.00	96.	998.	5	NAD-SFC	NoSubs
10	12	20	354	22	-10.6	0.147	-9.000	-9.000	-999.	135.	26.6	0.0240	0.72	1.00	2.60	150.0	15.0	284.0	2.0	0	0.00	96.	999.	5	NAD-SFC	NoSubs
10	12	20	354	23	-10.6	0.147	-9.000	-9.000	-999.	135.	26.6	0.0240	0.72	1.00	2.60	155.0	15.0	284.0	2.0	0	0.00	97.	999.	5	NAD-SFC	NoSubs
10	12	20	354	24	-6.3	0.117	-9.000	-9.000	-999.	96.	22.7	0.0240	0.72	1.00	2.10	150.0	15.0	283.9	2.0	0	0.25	98.	999.	7	NAD-SFC	NoSubs
10	12	21	355	1	-0.7	0.056	-9.000	-9.000	-999.	33.	23.0	0.0240	0.72	1.00	0.50	172.0	15.0	283.8	2.0	0	0.00	99.	1000.	8	NAD-SFC	NoSubs
10	12	21	355	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	283.5	2.0	0	0.00	100.	1000.	7	NAD-SFC	NoSubs
10	12	21	355	3	-1.0	0.067	-9.000	-9.000	-999.	42.	27.1	0.0950	0.72	1.00	0.50	338.0	15.0	283.2	2.0	0	0.00	100.	1001.	7	NAD-SFC	NoSubs

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10 12 21 355  4   -1.1  0.070 -9.000 -9.000 -999.   44.     28.0  0.0960  0.72  1.00  0.50   6.0  15.0 282.8  2.0   0  0.00  100. 1001.   6 NAD-SFC NoSubs
10 12 21 355  5   -2.7  0.084 -9.000 -9.000 -999.   58.     19.7  0.0960  0.72  1.00  1.00  22.0  15.0 281.9  2.0   0  0.00  100. 1001.   5 NAD-SFC NoSubs
10 12 21 355  6   -4.8  0.101 -9.000 -9.000 -999.   77.     19.3  0.0650  0.72  1.00  1.50  44.0  15.0 281.0  2.0   0  0.00  100. 1002.   4 NAD-SFC NoSubs
10 12 21 355  7   -1.1  0.070 -9.000 -9.000 -999.   45.     28.2  0.0650  0.72  1.00  0.50  58.0  15.0 280.4  2.0   0  0.00  100. 1002.   4 NAD-SFC NoSubs
10 12 21 355  8   -0.8  0.061 -9.000 -9.000 -999.   36.     24.6  0.0310  0.72  0.59  0.50 110.0  15.0 280.5  2.0   0  0.00  100. 1002.   4 NAD-SFC NoSubs
10 12 21 355  9   19.9  0.092  0.420  0.005  133.   67.     -3.5  0.0280  0.72  0.33  1.00 140.0  15.0 281.1  2.0   0  0.00  100. 1003.   4 NAD-SFC NoSubs
10 12 21 355 10   57.8  0.136  0.816  0.005  336.  120.     -3.9  0.0280  0.72  0.25  1.50 124.0  15.0 282.8  2.0   0  0.00   94. 1003.   3 NAD-SFC NoSubs
10 12 21 355 11   85.9  0.141  1.086  0.005  533.  128.     -2.9  0.0280  0.72  0.22  1.50 131.0  15.0 286.0  2.0   0  0.00   72. 1002.   3 NAD-SFC NoSubs
10 12 21 355 12   99.4  0.182  1.256  0.005  711.  187.     -5.4  0.0280  0.72  0.21  2.10 140.0  15.0 288.2  2.0   0  0.00   54. 1001.   4 NAD-SFC NoSubs
10 12 21 355 13   98.7  0.178  1.342  0.005  874.  180.     -5.1  0.0240  0.72  0.21  2.10 153.0  15.0 289.1  2.0   0  0.00   47. 1001.   4 NAD-SFC NoSubs
10 12 21 355 14   83.8  0.141  1.326  0.005  993.  127.     -3.0  0.0280  0.72  0.22  1.50 135.0  15.0 289.6  2.0   0  0.00   46. 1000.   4 NAD-SFC NoSubs
10 12 21 355 15   54.9  0.143  1.180  0.005 1068.  130.     -4.8  0.0400  0.72  0.26  1.50  71.0  15.0 289.6  2.0   0  0.00   49. 1000.   3 NAD-SFC NoSubs
10 12 21 355 16   14.5  0.196  0.760  0.005 1083.  208.    -46.3  0.0400  0.72  0.36  2.60  62.0  15.0 287.8  2.0   0  0.00   53. 1000.   3 NAD-SFC NoSubs
10 12 21 355 17   -7.8  0.127 -9.000 -9.000 -999.  110.     23.6  0.0400  0.72  0.65  2.10  79.0  15.0 287.4  2.0   0  0.00   53. 1000.   3 NAD-SFC NoSubs
10 12 21 355 18  -16.4  0.182 -9.000 -9.000 -999.  186.     32.5  0.0280  0.72  1.00  3.10 134.0  15.0 287.1  2.0   0  0.00   55. 1000.   3 NAD-SFC NoSubs
10 12 21 355 19  -28.0  0.276 -9.000 -9.000 -999.  349.     67.3  0.0280  0.72  1.00  4.60 144.0  15.0 286.2  2.0   0  0.00   65. 1000.   4 NAD-SFC NoSubs
10 12 21 355 20  -29.0  0.276 -9.000 -9.000 -999.  348.     64.6  0.0280  0.72  1.00  4.60 130.0  15.0 285.8  2.0   0  0.00   71. 1000.   3 NAD-SFC NoSubs
10 12 21 355 21  -29.0  0.276 -9.000 -9.000 -999.  348.     64.6  0.0280  0.72  1.00  4.60 141.0  15.0 285.8  2.0   0  0.00   74. 1000.   3 NAD-SFC NoSubs
10 12 21 355 22  -32.3  0.307 -9.000 -9.000 -999.  409.     80.1  0.0280  0.72  1.00  5.10 136.0  15.0 285.8  2.0   0  0.00   75.  999.   3 NAD-SFC NoSubs
10 12 21 355 23  -32.3  0.307 -9.000 -9.000 -999.  409.     80.2  0.0280  0.72  1.00  5.10 127.0  15.0 286.0  2.0   0  0.00   77.  999.   3 NAD-SFC NoSubs
10 12 21 355 24  -36.2  0.345 -9.000 -9.000 -999.  486.    101.1  0.0280  0.72  1.00  5.70 134.0  15.0 286.2  2.0   0  0.00   77.  998.   3 NAD-SFC NoSubs
10 12 22 356  1  -38.7  0.383 -9.000 -9.000 -999.  569.    129.5  0.0310  0.72  1.00  6.20 109.0  15.0 286.2  2.0   0  0.00   78.  998.   4 NAD-SFC NoSubs
10 12 22 356  2  -42.0  0.416 -9.000 -9.000 -999.  643.    152.2  0.0310  0.72  1.00  6.70 113.0  15.0 286.2  2.0   0  0.00   81.  998.   4 NAD-SFC NoSubs
10 12 22 356  3  -41.9  0.416 -9.000 -9.000 -999.  643.    152.4  0.0310  0.72  1.00  6.70 108.0  15.0 286.4  2.0   0  0.00   82.  997.   4 NAD-SFC NoSubs
10 12 22 356  4  -41.9  0.416 -9.000 -9.000 -999.  643.    152.4  0.0310  0.72  1.00  6.70 112.0  15.0 286.5  2.0   0  0.00   82.  997.   4 NAD-SFC NoSubs
10 12 22 356  5  -41.2  0.409 -9.000 -9.000 -999.  627.    147.4  0.0280  0.72  1.00  6.70 120.0  15.0 286.6  2.0   0  0.00   81.  997.   4 NAD-SFC NoSubs
10 12 22 356  6  -38.0  0.377 -9.000 -9.000 -999.  556.    125.4  0.0280  0.72  1.00  6.20 122.0  15.0 286.6  2.0   0  0.00   82.  997.   4 NAD-SFC NoSubs
10 12 22 356  7  -29.5  0.308 -9.000 -9.000 -999.  413.     87.9  0.0280  0.72  1.00  5.10 135.0  15.0 286.4  2.0   0  0.00   83.  997.   5 NAD-SFC NoSubs
10 12 22 356  8  -21.6  0.278 -9.000 -9.000 -999.  352.     88.2  0.0280  0.72  0.59  4.60 140.0  15.0 286.1  2.0   0  0.25   85.  997.   5 NAD-SFC NoSubs
10 12 22 356  9   21.0  0.273  0.380  0.005   93.  342.    -85.8  0.0240  0.72  0.34  4.10 152.0  15.0 285.9  2.0   0  0.76   89.  997.   5 NAD-SFC NoSubs
10 12 22 356 10   57.4  0.293  0.769  0.005  282.  380.    -38.9  0.0280  0.72  0.25  4.10 146.0  15.0 285.8  2.0   0  1.02   91.  997.   5 NAD-SFC NoSubs
10 12 22 356 11   83.3  0.293  1.124  0.005  608.  380.    -26.8  0.0240  0.72  0.22  4.10 155.0  15.0 285.9  2.0   0  1.27   92.  998.   5 NAD-SFC NoSubs
10 12 22 356 12   81.1  0.240  1.264  0.005  886.  283.    -15.1  0.0280  0.72  0.21  3.10 146.0  15.0 286.0  2.0   0  1.52   93.  998.   7 NAD-SFC NoSubs
10 12 22 356 13   66.6  0.171  1.244  0.005 1031.  172.     -6.7  0.0240  0.72  0.21  2.10 152.0  15.0 286.0  2.0   0  2.29   93.  998.   8 NAD-SFC NoSubs
10 12 22 356 14   82.8  0.205  1.395  0.005 1168.  223.     -9.2  0.0240  0.72  0.22  2.60 174.0  15.0 285.9  2.0   0  1.78   95.  998.   4 NAD-SFC NoSubs
10 12 22 356 15   54.5  0.166  1.241  0.005 1251.  163.     -7.5  0.0220  0.72  0.26  2.10 190.0  15.0 286.2  2.0   0  0.25   92.  999.   4 NAD-SFC NoSubs
10 12 22 356 16   15.8  0.115  0.827  0.005 1273.   94.     -8.6  0.0200  0.72  0.35  1.50 254.0  15.0 286.2  2.0   0  0.00   91.  999.   6 NAD-SFC NoSubs
10 12 22 356 17   -7.3  0.129 -9.000 -9.000 -999.  111.     26.3  0.0420  0.72  0.64  2.10 295.0  15.0 285.9  2.0   0  0.00   91.  999.   6 NAD-SFC NoSubs
10 12 22 356 18  -11.9  0.162 -9.000 -9.000 -999.  157.     32.0  0.0420  0.72  1.00  2.60 295.0  15.0 285.2  2.0   0  0.00   92. 1001.   6 NAD-SFC NoSubs
10 12 22 356 19  -10.9  0.163 -9.000 -9.000 -999.  158.     35.7  0.0420  0.72  1.00  2.60 276.0  15.0 284.6  2.0   0  0.00   95. 1002.   8 NAD-SFC NoSubs
10 12 22 356 20  -17.2  0.196 -9.000 -9.000 -999.  208.     39.2  0.0420  0.72  1.00  3.10 276.0  15.0 284.1  2.0   0  0.25   96. 1003.   6 NAD-SFC NoSubs
10 12 22 356 21  -22.3  0.229 -9.000 -9.000 -999.  263.     48.3  0.0420  0.72  1.00  3.60 288.0  15.0 284.0  2.0   0  0.51   96. 1004.   5 NAD-SFC NoSubs
10 12 22 356 22  -21.0  0.230 -9.000 -9.000 -999.  264.     51.7  0.0420  0.72  1.00  3.60 297.0  15.0 284.0  2.0   0  0.25   96. 1005.   6 NAD-SFC NoSubs
10 12 22 356 23  -14.8  0.266 -9.000 -9.000 -999.  329.    113.8  0.0420  0.72  1.00  4.10 297.0  15.0 284.0  2.0   0  0.00   92. 1006.  10 NAD-SFC NoSubs
10 12 22 356 24  -22.2  0.264 -9.000 -9.000 -999.  325.     74.0  0.0420  0.72  1.00  4.10 288.0  15.0 283.8  2.0   0  0.00   89. 1006.   7 NAD-SFC NoSubs
10 12 23 357  1  -24.1  0.263 -9.000 -9.000 -999.  324.     67.8  0.0420  0.72  1.00  4.10 299.0  15.0 283.5  2.0   0  0.00   88. 1007.   6 NAD-SFC NoSubs
10 12 23 357  2  -29.1  0.297 -9.000 -9.000 -999.  388.     80.8  0.0800  0.72  1.00  4.10 300.0  15.0 283.1  2.0   0  0.00   88. 1008.   5 NAD-SFC NoSubs
10 12 23 357  3  -29.1  0.297 -9.000 -9.000 -999.  388.     80.6  0.0800  0.72  1.00  4.10 309.0  15.0 282.8  2.0   0  0.00   90. 1008.   5 NAD-SFC NoSubs
10 12 23 357  4  -25.5  0.259 -9.000 -9.000 -999.  317.     61.2  0.0800  0.72  1.00  3.60 320.0  15.0 281.9  2.0   0  0.00   94. 1009.   5 NAD-SFC NoSubs
10 12 23 357  5  -21.6  0.221 -9.000 -9.000 -999.  250.     45.0  0.0800  0.72  1.00  3.10 327.0  15.0 281.1  2.0   0  0.00   98. 1009.   5 NAD-SFC NoSubs
10 12 23 357  6  -23.5  0.229 -9.000 -9.000 -999.  263.     46.0  0.0950  0.72  1.00  3.10 341.0  15.0 280.6  2.0   0  0.00  100. 1010.   4 NAD-SFC NoSubs
10 12 23 357  7  -10.4  0.150 -9.000 -9.000 -999.  142.     29.2  0.0950  0.72  1.00  2.10 339.0  15.0 280.1  2.0   0  0.00  100. 1011.   4 NAD-SFC NoSubs
10 12 23 357  8   -4.6  0.103 -9.000 -9.000 -999.   80.     21.5  0.0800  0.72  0.59  1.50 317.0  15.0 279.6  2.0   0  0.00  100. 1012.   4 NAD-SFC NoSubs
10 12 23 357  9   18.9  0.145  0.478  0.007  208.  133.    -14.6  0.0800  0.72  0.34  1.50 305.0  15.0 279.4  2.0   0  0.00  100. 1012.   4 NAD-SFC NoSubs
10 12 23 357 10   56.6  0.161  0.780  0.007  303.  155.     -6.7  0.0800  0.72  0.25  1.50 300.0  15.0 279.2  2.0   0  0.00  100. 1013.   3 NAD-SFC NoSubs
10 12 23 357 11   84.2  0.129  0.986  0.006  411.  111.     -2.3  0.0800  0.72  0.22  1.00 302.0  15.0 279.5  2.0   0  0.00  100. 1013.   3 NAD-SFC NoSubs
10 12 23 357 12   97.9  0.086  1.133  0.006  537.   61.     -1.0  0.0800  0.72  0.21  0.50 305.0  15.0 279.8  2.0   0  0.00  100. 1012.   3 NAD-SFC NoSubs
10 12 23 357 13   97.2  0.086  1.198  0.006  638.   60.     -1.0  0.0800  0.72  0.21  0.50 319.0  15.0 280.2  2.0   0  0.00   97. 1012.   3 NAD-SFC NoSubs
10 12 23 357 14   82.1  0.087  1.177  0.006  717.   61.     -1.0  0.0960  0.72  0.22  0.50   6.0  15.0 280.8  2.0   0  0.00   94. 1011.   3 NAD-SFC NoSubs
10 12 23 357 15   53.2  0.155  1.041  0.006  765.  146.     -6.3  0.0650  0.72  0.26  1.50  30.0  15.0 281.1  2.0   0  0.00   92. 1011.   3 NAD-SFC NoSubs
10 12 23 357 16   11.8  0.176  0.635  0.006  776.  177.    -41.2  0.0650  0.72  0.35  2.10  38.0  15.0 281.0  2.0   0  0.00   93. 1010.   2 NAD-SFC NoSubs
10 12 23 357 17  -14.4  0.175 -9.000 -9.000 -999.  176.     33.5  0.0650  0.72  0.64  2.60  48.0  15.0 280.6  2.0   0  0.00   97. 1010.   2 NAD-SFC NoSubs
10 12 23 357 18  -14.9  0.175 -9.000 -9.000 -999.  175.     32.3  0.0650  0.72  1.00  2.60  54.0  15.0 280.1  2.0   0  0.00   99. 1010.   2 NAD-SFC NoSubs
10 12 23 357 19   -5.0  0.102 -9.000 -9.000 -999.   79.     18.9  0.0650  0.72  1.00  1.50  36.0  15.0 279.9  2.0   0  0.00   98. 1011.   2 NAD-SFC NoSubs
10 12 23 357 20   -1.3  0.075 -9.000 -9.000 -999.   50.     29.8  0.0960  0.72  1.00  0.50   9.0  15.0 279.8  2.0   0  0.00   99. 1011.   2 NAD-SFC NoSubs
10 12 23 357 21   -1.3  0.075 -9.000 -9.000 -999.   50.     29.8  0.0950  0.72  1.00  0.50 346.0  15.0 279.5  2.0   0  0.00   99. 1011.   2 NAD-SFC NoSubs
10 12 23 357 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 279.2  2.0   0  0.00  100. 1011.   2 NAD-SFC NoSubs
10 12 23 357 23   -3.0  0.087 -9.000 -9.000 -999.   62.     20.0  0.0960  0.72  1.00  1.00   8.0  15.0 279.2  2.0   0  0.00  100. 1012.   2 NAD-SFC NoSubs
10 12 23 357 24   -1.3  0.075 -9.000 -9.000 -999.   50.     29.8  0.0950  0.72  1.00  0.50 349.0  15.0 279.1  2.0   0  0.00  100. 1012.   2 NAD-SFC NoSubs
10 12 24 358  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 279.1  2.0   0  0.00  100. 1012.   2 NAD-SFC NoSubs
10 12 24 358  2   -1.3  0.075 -9.000 -9.000 -999.   50.     29.9  0.0960  0.72  1.00  0.50  21.0  15.0 279.0  2.0   0  0.00  100. 1012.   2 NAD-SFC NoSubs
10 12 24 358  3   -1.2  0.072 -9.000 -9.000 -999.   47.     28.9  0.0650  0.72  1.00  0.50  30.0  15.0 278.9  2.0   0  0.00  100. 1012.   2 NAD-SFC NoSubs
10 12 24 358  4   -1.2  0.072 -9.000 -9.000 -999.   47.     28.9  0.0650  0.72  1.00  0.50  34.0  15.0 278.9  2.0   0  0.00  100. 1012.   2 NAD-SFC NoSubs
10 12 24 358  5   -1.3  0.075 -9.000 -9.000 -999.   50.     29.9  0.0960  0.72  1.00  0.50  25.0  15.0 278.9  2.0   0  0.00  100. 1012.   2 NAD-SFC NoSubs
10 12 24 358  6   -1.3  0.075 -9.000 -9.000 -999.   50.     29.9  0.0960  0.72  1.00  0.50  12.0  15.0 278.9  2.0   0  0.00  100. 1012.   2 NAD-SFC NoSubs
10 12 24 358  7   -1.2  0.074 -9.000 -9.000 -999.   48.     29.4  0.0800  0.72  1.00  0.50 327.0  15.0 278.8  2.0   0  0.00  100. 1012.   2 NAD-SFC NoSubs
10 12 24 358  8    7.3 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.60  0.00   0.0  15.0 278.8  2.0   0  0.00  100. 1012.   2 NAD-SFC NoSubs
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10 12 24 358  9   15.8 -9.000 -9.000 -9.000  211. -999. -99999.0  0.0471  0.72  0.34  0.00   0.0  15.0 278.6  2.0   0  0.00  100. 1012.   2 NAD-SFC NoSubs
10 12 24 358 10   55.1 -9.000 -9.000 -9.000  233. -999. -99999.0  0.0471  0.72  0.25  0.00   0.0  15.0 278.6  2.0   0  0.00  100. 1012.   2 NAD-SFC NoSubs
10 12 24 358 11   83.0  0.087  0.845  0.014  262.   62.     -1.0  0.0960  0.72  0.22  0.50   8.0  15.0 279.1  2.0   0  0.00  100. 1011.   2 NAD-SFC NoSubs
10 12 24 358 12   97.1  0.089  0.925  0.012  294.   63.     -1.0  0.0950  0.72  0.21  0.50 343.0  15.0 280.5  2.0   0  0.00   92. 1010.   2 NAD-SFC NoSubs
10 12 24 358 13   96.9  0.135  0.953  0.010  322.  119.     -2.3  0.0950  0.72  0.21  1.00 347.0  15.0 282.8  2.0   0  0.00   81. 1010.   2 NAD-SFC NoSubs
10 12 24 358 14   82.1  0.173  0.923  0.008  345.  173.     -5.7  0.0950  0.72  0.22  1.50 357.0  15.0 284.5  2.0   0  0.00   73. 1009.   2 NAD-SFC NoSubs
10 12 24 358 15   53.1 -9.000 -9.000 -9.000  359. -999. -99999.0  0.0471  0.72  0.26  0.00   0.0  15.0 285.2  2.0   0  0.00   69. 1008.   2 NAD-SFC NoSubs
10 12 24 358 16   13.1  0.226  0.509  0.007  362.  257.    -79.0  0.0960  0.72  0.35  2.60  14.0  15.0 284.9  2.0   0  0.00   72. 1008.   2 NAD-SFC NoSubs
10 12 24 358 17    3.9 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.64  0.00   0.0  15.0 284.0  2.0   0  0.00   76. 1008.   2 NAD-SFC NoSubs
10 12 24 358 18   -5.2  0.105 -9.000 -9.000 -999.   82.     19.9  0.0800  0.72  1.00  1.50 326.0  15.0 283.0  2.0   0  0.00   80. 1008.   2 NAD-SFC NoSubs
10 12 24 358 19   -5.3  0.105 -9.000 -9.000 -999.   82.     19.9  0.0800  0.72  1.00  1.50 315.0  15.0 282.1  2.0   0  0.00   84. 1008.   2 NAD-SFC NoSubs
10 12 24 358 20   -5.3  0.105 -9.000 -9.000 -999.   82.     19.9  0.0800  0.72  1.00  1.50 307.0  15.0 281.4  2.0   0  0.00   88. 1009.   2 NAD-SFC NoSubs
10 12 24 358 21   -5.5  0.108 -9.000 -9.000 -999.   86.     20.7  0.0950  0.72  1.00  1.50 340.0  15.0 280.9  2.0   0  0.00   91. 1009.   2 NAD-SFC NoSubs
10 12 24 358 22   -5.5  0.108 -9.000 -9.000 -999.   86.     20.7  0.0950  0.72  1.00  1.50 355.0  15.0 280.4  2.0   0  0.00   94. 1008.   2 NAD-SFC NoSubs
10 12 24 358 23  -10.8  0.150 -9.000 -9.000 -999.  140.     28.3  0.0960  0.72  1.00  2.10  11.0  15.0 279.8  2.0   0  0.00   98. 1008.   2 NAD-SFC NoSubs
10 12 24 358 24   -9.5  0.139 -9.000 -9.000 -999.  124.     25.2  0.0650  0.72  1.00  2.10  33.0  15.0 279.0  2.0   0  0.00   99. 1008.   2 NAD-SFC NoSubs
10 12 25 359  1   -5.6  0.109 -9.000 -9.000 -999.   86.     20.7  0.0960  0.72  1.00  1.50  20.0  15.0 277.2  2.0   0  0.00  100. 1007.   2 NAD-SFC NoSubs
10 12 25 359  2   -5.6  0.109 -9.000 -9.000 -999.   86.     20.7  0.0960  0.72  1.00  1.50  17.0  15.0 276.8  2.0   0  0.00  100. 1007.   2 NAD-SFC NoSubs
10 12 25 359  3   -5.6  0.109 -9.000 -9.000 -999.   86.     20.7  0.0960  0.72  1.00  1.50  20.0  15.0 277.0  2.0   0  0.00  100. 1007.   2 NAD-SFC NoSubs
10 12 25 359  4   -5.6  0.109 -9.000 -9.000 -999.   86.     20.7  0.0960  0.72  1.00  1.50  20.0  15.0 278.6  2.0   0  0.00   90. 1006.   2 NAD-SFC NoSubs
10 12 25 359  5   -1.1  0.069 -9.000 -9.000 -999.   44.     27.5  0.0400  0.72  1.00  0.50  69.0  15.0 280.8  2.0   0  0.00   76. 1005.   2 NAD-SFC NoSubs
10 12 25 359  6   -1.0  0.065 -9.000 -9.000 -999.   40.     26.1  0.0220  0.72  1.00  0.50 181.0  15.0 282.0  2.0   0  0.00   69. 1005.   2 NAD-SFC NoSubs
10 12 25 359  7   -7.1  0.115 -9.000 -9.000 -999.   94.     19.2  0.0220  0.72  1.00  2.10 189.0  15.0 282.6  2.0   0  0.00   66. 1005.   2 NAD-SFC NoSubs
10 12 25 359  8  -15.2  0.178 -9.000 -9.000 -999.  180.     33.1  0.0240  0.72  0.60  3.10 177.0  15.0 283.2  2.0   0  0.00   64. 1005.   2 NAD-SFC NoSubs
10 12 25 359  9   16.6  0.270  0.267  0.006   41.  337.   -106.6  0.0240  0.72  0.34  4.10 165.0  15.0 284.1  2.0   0  0.00   62. 1005.   2 NAD-SFC NoSubs
10 12 25 359 10   57.5  0.352  0.520  0.005   88.  502.    -68.1  0.0280  0.72  0.25  5.10 149.0  15.0 285.4  2.0   0  0.00   62. 1005.   3 NAD-SFC NoSubs
10 12 25 359 11   85.5  0.329  0.818  0.005  229.  454.    -37.4  0.0280  0.72  0.22  4.60 136.0  15.0 286.8  2.0   0  0.00   61. 1004.   3 NAD-SFC NoSubs
10 12 25 359 12   99.7  0.296  0.981  0.005  339.  387.    -23.3  0.0240  0.72  0.21  4.10 154.0  15.0 287.8  2.0   0  0.00   60. 1004.   3 NAD-SFC NoSubs
10 12 25 359 13   99.3  0.325  1.086  0.005  461.  444.    -30.9  0.0240  0.72  0.21  4.60 150.0  15.0 288.1  2.0   0  0.00   61. 1003.   3 NAD-SFC NoSubs
10 12 25 359 14   84.2  0.322  1.113  0.005  587.  438.    -35.4  0.0240  0.72  0.22  4.60 159.0  15.0 287.9  2.0   0  0.00   63. 1003.   3 NAD-SFC NoSubs
10 12 25 359 15   55.6  0.282  1.005  0.005  654.  360.    -36.2  0.0220  0.72  0.25  4.10 190.0  15.0 287.0  2.0   0  0.25   69. 1004.   4 NAD-SFC NoSubs
10 12 25 359 16   15.0  0.269  0.656  0.005  671.  335.   -116.1  0.0240  0.72  0.35  4.10 173.0  15.0 285.8  2.0   0  1.78   81. 1004.   7 NAD-SFC NoSubs
10 12 25 359 17  -18.5  0.350 -9.000 -9.000 -999.  497.    207.2  0.0280  0.72  0.63  5.70 142.0  15.0 285.2  2.0   0  3.05   85. 1004.  10 NAD-SFC NoSubs
10 12 25 359 18  -21.2  0.382 -9.000 -9.000 -999.  566.    235.5  0.0280  0.72  1.00  6.20 135.0  15.0 285.0  2.0   0  2.79   86. 1004.  10 NAD-SFC NoSubs
10 12 25 359 19  -33.6  0.346 -9.000 -9.000 -999.  489.    110.2  0.0280  0.72  1.00  5.70 144.0  15.0 284.8  2.0   0  2.54   88. 1004.   5 NAD-SFC NoSubs
10 12 25 359 20  -20.3  0.208 -9.000 -9.000 -999.  240.     40.0  0.0240  0.72  1.00  3.60 151.0  15.0 284.6  2.0   0  3.56   91. 1005.   5 NAD-SFC NoSubs
10 12 25 359 21  -19.0  0.209 -9.000 -9.000 -999.  229.     42.9  0.0240  0.72  1.00  3.60 157.0  15.0 284.4  2.0   0  3.81   95. 1005.   6 NAD-SFC NoSubs
10 12 25 359 22   -9.9  0.148 -9.000 -9.000 -999.  137.     29.1  0.0240  0.72  1.00  2.60 157.0  15.0 284.5  2.0   0  2.29   96. 1006.   7 NAD-SFC NoSubs
10 12 25 359 23   -0.9  0.063 -9.000 -9.000 -999.   42.     25.4  0.0220  0.72  1.00  0.50 207.0  15.0 284.8  2.0   0  1.52   95. 1007.   4 NAD-SFC NoSubs
10 12 25 359 24   -4.3  0.094 -9.000 -9.000 -999.   70.     17.5  0.0420  0.72  1.00  1.50 290.0  15.0 284.9  2.0   0  0.25   92. 1008.   3 NAD-SFC NoSubs
10 12 26 360  1  -24.4  0.229 -9.000 -9.000 -999.  262.     44.1  0.0420  0.72  1.00  3.60 276.0  15.0 284.2  2.0   0  0.00   91. 1009.   3 NAD-SFC NoSubs
10 12 26 360  2  -31.8  0.296 -9.000 -9.000 -999.  386.     73.4  0.0420  0.72  1.00  4.60 279.0  15.0 282.8  2.0   0  0.00   92. 1010.   3 NAD-SFC NoSubs
10 12 26 360  3  -28.3  0.262 -9.000 -9.000 -999.  323.     57.5  0.0420  0.72  1.00  4.10 287.0  15.0 281.9  2.0   0  0.00   93. 1011.   3 NAD-SFC NoSubs
10 12 26 360  4  -28.3  0.262 -9.000 -9.000 -999.  322.     57.3  0.0420  0.72  1.00  4.10 298.0  15.0 281.1  2.0   0  0.00   94. 1011.   3 NAD-SFC NoSubs
10 12 26 360  5  -24.8  0.229 -9.000 -9.000 -999.  263.     43.4  0.0420  0.72  1.00  3.60 289.0  15.0 280.4  2.0   0  0.00   95. 1012.   3 NAD-SFC NoSubs
10 12 26 360  6  -28.9  0.258 -9.000 -9.000 -999.  315.     53.9  0.0800  0.72  1.00  3.60 302.0  15.0 279.6  2.0   0  0.00   97. 1013.   2 NAD-SFC NoSubs
10 12 26 360  7  -16.0  0.182 -9.000 -9.000 -999.  188.     34.2  0.0800  0.72  1.00  2.60 317.0  15.0 278.8  2.0   0  0.00   98. 1014.   2 NAD-SFC NoSubs
10 12 26 360  8  -16.0  0.190 -9.000 -9.000 -999.  198.     38.8  0.0950  0.72  0.60  2.60 353.0  15.0 278.6  2.0   0  0.00   99. 1015.   2 NAD-SFC NoSubs
10 12 26 360  9   15.4  0.191  0.317  0.005   75.  200.    -40.8  0.0950  0.72  0.34  2.10 348.0  15.0 279.4  2.0   0  0.00   99. 1015.   2 NAD-SFC NoSubs
10 12 26 360 10   54.8  0.082  0.742  0.005  270.   64.     -1.0  0.0960  0.72  0.25  0.50  14.0  15.0 279.2  2.0   0  0.00  100. 1016.   2 NAD-SFC NoSubs
10 12 26 360 11   82.9 -9.000 -9.000 -9.000  444. -999. -99999.0  0.0471  0.72  0.22  0.00   0.0  15.0 279.8  2.0   0  0.00   98. 1016.   2 NAD-SFC NoSubs
10 12 26 360 12   97.2 -9.000 -9.000 -9.000  594. -999. -99999.0  0.0471  0.72  0.21  0.00   0.0  15.0 280.6  2.0   0  0.00   93. 1016.   2 NAD-SFC NoSubs
10 12 26 360 13   97.0  0.082  1.332  0.005  883.   57.     -1.0  0.0650  0.72  0.21  0.50  39.0  15.0 282.0  2.0   0  0.00   85. 1016.   2 NAD-SFC NoSubs
10 12 26 360 14   82.3  0.087  1.343  0.005 1068.   61.     -1.0  0.0960  0.72  0.22  0.50  27.0  15.0 283.2  2.0   0  0.00   77. 1016.   2 NAD-SFC NoSubs
10 12 26 360 15   53.4  0.082  1.191  0.005 1146.   56.     -1.0  0.0960  0.72  0.25  0.50  13.0  15.0 283.5  2.0   0  0.00   74. 1015.   2 NAD-SFC NoSubs
10 12 26 360 16   14.0  0.115  0.767  0.005 1170.   94.    -10.0  0.0220  0.72  0.35  1.50 238.0  15.0 285.4  2.0   0  0.00   58. 1015.   2 NAD-SFC NoSubs
10 12 26 360 17   -3.6  0.085 -9.000 -9.000 -999.   59.     15.4  0.0200  0.72  0.63  1.50 248.0  15.0 284.8  2.0   0  0.00   60. 1015.   2 NAD-SFC NoSubs
10 12 26 360 18   -3.8  0.086 -9.000 -9.000 -999.   61.     15.2  0.0200  0.72  1.00  1.50 262.0  15.0 284.1  2.0   0  0.00   62. 1015.   2 NAD-SFC NoSubs
10 12 26 360 19   -2.2  0.073 -9.000 -9.000 -999.   48.     16.6  0.0200  0.72  1.00  1.00 262.0  15.0 283.4  2.0   0  0.00   64. 1015.   2 NAD-SFC NoSubs
10 12 26 360 20   -1.0  0.065 -9.000 -9.000 -999.   40.     26.1  0.0220  0.72  1.00  0.50 212.0  15.0 282.8  2.0   0  0.00   68. 1015.   2 NAD-SFC NoSubs
10 12 26 360 21   -2.3  0.076 -9.000 -9.000 -999.   50.     17.2  0.0280  0.72  1.00  1.00 145.0  15.0 282.0  2.0   0  0.00   71. 1015.   2 NAD-SFC NoSubs
10 12 26 360 22   -7.5  0.120 -9.000 -9.000 -999.   99.     20.6  0.0280  0.72  1.00  2.10 145.0  15.0 281.6  2.0   0  0.00   72. 1015.   3 NAD-SFC NoSubs
10 12 26 360 23  -11.7  0.150 -9.000 -9.000 -999.  139.     26.2  0.0280  0.72  1.00  2.60 143.0  15.0 281.4  2.0   0  0.00   72. 1016.   3 NAD-SFC NoSubs
10 12 26 360 24  -16.9  0.182 -9.000 -9.000 -999.  186.     32.1  0.0280  0.72  1.00  3.10 129.0  15.0 281.2  2.0   0  0.00   72. 1016.   3 NAD-SFC NoSubs
10 12 27 361  1  -16.8  0.182 -9.000 -9.000 -999.  186.     32.1  0.0280  0.72  1.00  3.10 130.0  15.0 281.1  2.0   0  0.00   71. 1015.   3 NAD-SFC NoSubs
10 12 27 361  2  -16.9  0.182 -9.000 -9.000 -999.  186.     32.1  0.0280  0.72  1.00  3.10 142.0  15.0 281.0  2.0   0  0.00   70. 1015.   3 NAD-SFC NoSubs
10 12 27 361  3   -7.2  0.117 -9.000 -9.000 -999.   97.     19.8  0.0240  0.72  1.00  2.10 164.0  15.0 280.8  2.0   0  0.00   69. 1015.   3 NAD-SFC NoSubs
10 12 27 361  4   -2.2  0.074 -9.000 -9.000 -999.   49.     16.8  0.0240  0.72  1.00  1.00 165.0  15.0 280.2  2.0   0  0.00   70. 1015.   3 NAD-SFC NoSubs
10 12 27 361  5   -1.0  0.067 -9.000 -9.000 -999.   41.     26.7  0.0310  0.72  1.00  0.50 111.0  15.0 279.8  2.0   0  0.00   73. 1015.   3 NAD-SFC NoSubs
10 12 27 361  6   -2.3  0.075 -9.000 -9.000 -999.   50.     17.2  0.0280  0.72  1.00  1.00 125.0  15.0 279.1  2.0   0  0.00   76. 1015.   3 NAD-SFC NoSubs
10 12 27 361  7   -1.0  0.067 -9.000 -9.000 -999.   42.     26.7  0.0310  0.72  1.00  0.50 116.0  15.0 278.6  2.0   0  0.00   78. 1016.   3 NAD-SFC NoSubs
10 12 27 361  8   -0.9  0.064 -9.000 -9.000 -999.   39.     25.6  0.0280  0.72  0.60  0.50 121.0  15.0 278.0  2.0   0  0.00   80. 1016.   2 NAD-SFC NoSubs
10 12 27 361  9   15.1 -9.000 -9.000 -9.000   65. -999. -99999.0  0.0471  0.72  0.34  0.00   0.0  15.0 279.1  2.0   0  0.00   74. 1016.   2 NAD-SFC NoSubs
10 12 27 361 10   55.1 -9.000 -9.000 -9.000  242. -999. -99999.0  0.0471  0.72  0.25  0.00   0.0  15.0 281.8  2.0   0  0.00   58. 1016.   2 NAD-SFC NoSubs
10 12 27 361 11   83.6 -9.000 -9.000 -9.000  478. -999. -99999.0  0.0471  0.72  0.22  0.00   0.0  15.0 283.4  2.0   0  0.00   50. 1015.   2 NAD-SFC NoSubs
10 12 27 361 12   98.1  0.076  1.206  0.006  647.   50.     -1.0  0.0420  0.72  0.21  0.50 288.0  15.0 284.4  2.0   0  0.00   49. 1014.   2 NAD-SFC NoSubs
10 12 27 361 13   97.9  0.076  1.264  0.006  746.   50.     -1.0  0.0420  0.72  0.21  0.50 293.0  15.0 285.1  2.0   0  0.00   50. 1013.   2 NAD-SFC NoSubs
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10 12 27 361 14   83.1  0.129  1.235  0.006  819.  111.     -2.3  0.0800  0.72  0.22  1.00  302.0  15.0  285.6  2.0   0  0.00   51.  1013.    2 NAD-SFC NoSubs
10 12 27 361 15   54.4  0.122  1.092  0.006  864.  103.     -3.0  0.0800  0.72  0.25  1.00  322.0  15.0  285.9  2.0   0  0.00   52.  1012.    2 NAD-SFC NoSubs
10 12 27 361 16   14.5  0.146  0.706  0.006  875.  135.    -19.6  0.0950  0.72  0.35  1.50  340.0  15.0  285.8  2.0   0  0.00   56.  1012.    2 NAD-SFC NoSubs
10 12 27 361 17   -2.7  0.084 -9.000 -9.000 -999.   59.     19.7  0.0960  0.72  0.62  1.00    6.0  15.0  285.0  2.0   0  0.00   61.  1011.    2 NAD-SFC NoSubs
10 12 27 361 18   -1.2  0.072 -9.000 -9.000 -999.   46.     28.7  0.0650  0.72  1.00  0.50   51.0  15.0  283.9  2.0   0  0.00   66.  1011.    2 NAD-SFC NoSubs
10 12 27 361 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.8  2.0   0  0.00   72.  1012.    2 NAD-SFC NoSubs
10 12 27 361 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  281.9  2.0   0  0.00   78.  1012.    2 NAD-SFC NoSubs
10 12 27 361 21   -1.1  0.068 -9.000 -9.000 -999.   43.     27.3  0.0400  0.72  1.00  0.50   88.0  15.0  281.2  2.0   0  0.00   82.  1012.    3 NAD-SFC NoSubs
10 12 27 361 22   -1.0  0.067 -9.000 -9.000 -999.   42.     26.9  0.0310  0.72  1.00  0.50   90.0  15.0  280.8  2.0   0  0.00   85.  1012.    2 NAD-SFC NoSubs
10 12 27 361 23   -1.0  0.068 -9.000 -9.000 -999.   42.     26.9  0.0310  0.72  1.00  0.50  107.0  15.0  280.2  2.0   0  0.00   87.  1013.    2 NAD-SFC NoSubs
10 12 27 361 24   -1.0  0.067 -9.000 -9.000 -999.   42.     26.7  0.0280  0.72  1.00  0.50  120.0  15.0  280.1  2.0   0  0.00   88.  1012.    2 NAD-SFC NoSubs
10 12 28 362  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  280.0  2.0   0  0.00   89.  1012.    2 NAD-SFC NoSubs
10 12 28 362  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  279.8  2.0   0  0.00   89.  1012.    3 NAD-SFC NoSubs
10 12 28 362  3   -1.0  0.065 -9.000 -9.000 -999.   40.     25.9  0.0220  0.72  1.00  0.50  238.0  15.0  279.4  2.0   0  0.00   91.  1012.    3 NAD-SFC NoSubs
10 12 28 362  4   -1.0  0.065 -9.000 -9.000 -999.   40.     25.9  0.0220  0.72  1.00  0.50  238.0  15.0  279.0  2.0   0  0.00   94.  1012.    3 NAD-SFC NoSubs
10 12 28 362  5   -2.1  0.073 -9.000 -9.000 -999.   47.     16.5  0.0200  0.72  1.00  1.00  244.0  15.0  278.6  2.0   0  0.00   96.  1011.    3 NAD-SFC NoSubs
10 12 28 362  6   -2.2  0.074 -9.000 -9.000 -999.   48.     16.7  0.0220  0.72  1.00  1.00  216.0  15.0  278.2  2.0   0  0.00   98.  1011.    3 NAD-SFC NoSubs
10 12 28 362  7   -2.2  0.074 -9.000 -9.000 -999.   48.     16.7  0.0220  0.72  1.00  1.00  213.0  15.0  277.8  2.0   0  0.00   99.  1011.    3 NAD-SFC NoSubs
10 12 28 362  8   -0.9  0.062 -9.000 -9.000 -999.   37.     24.9  0.0220  0.72  0.61  0.50  206.0  15.0  276.4  2.0   0  0.00  100.  1011.    3 NAD-SFC NoSubs
10 12 28 362  9   16.2 -9.000 -9.000 -9.000   75. -999. -99999.0  0.0471  0.72  0.34  0.00    0.0  15.0  276.5  2.0   0  0.00  100.  1011.    3 NAD-SFC NoSubs
10 12 28 362 10   55.6 -9.000 -9.000 -9.000  205. -999. -99999.0  0.0471  0.72  0.25  0.00    0.0  15.0  278.1  2.0   0  0.00   97.  1011.    3 NAD-SFC NoSubs
10 12 28 362 11   84.0  0.066  0.953  0.009  372.   40.     -1.0  0.0200  0.72  0.22  0.50  252.0  15.0  280.2  2.0   0  0.00   84.  1010.    3 NAD-SFC NoSubs
10 12 28 362 12   98.4  0.104  1.113  0.010  504.   80.     -1.0  0.0200  0.72  0.21  1.00  256.0  15.0  281.4  2.0   0  0.00   78.  1009.    3 NAD-SFC NoSubs
10 12 28 362 13   98.3  0.067  1.185  0.010  608.   42.     -1.0  0.0200  0.72  0.21  0.50  266.0  15.0  282.1  2.0   0  0.00   73.  1008.    3 NAD-SFC NoSubs
10 12 28 362 14   83.8  0.075  1.163  0.010  674.   49.     -1.0  0.0420  0.72  0.22  0.50  282.0  15.0  282.6  2.0   0  0.00   70.  1007.    3 NAD-SFC NoSubs
10 12 28 362 15   55.3 -9.000 -9.000 -9.000  703. -999. -99999.0  0.0471  0.72  0.25  0.00    0.0  15.0  282.8  2.0   0  0.00   70.  1006.    3 NAD-SFC NoSubs
10 12 28 362 16   17.0 -9.000 -9.000 -9.000  711. -999. -99999.0  0.0471  0.72  0.35  0.00    0.0  15.0  282.6  2.0   0  0.00   72.  1005.    4 NAD-SFC NoSubs
10 12 28 362 17   -0.8  0.059 -9.000 -9.000 -999.   35.     24.1  0.0240  0.72  0.62  0.50  175.0  15.0  282.1  2.0   0  0.00   76.  1004.    5 NAD-SFC NoSubs
10 12 28 362 18   -1.3  0.061 -9.000 -9.000 -999.   36.     15.5  0.0240  0.72  1.00  1.00  171.0  15.0  281.5  2.0   0  0.25   81.  1004.   10 NAD-SFC NoSubs
10 12 28 362 19   -5.3  0.119 -9.000 -9.000 -999.   99.     28.6  0.0240  0.72  1.00  2.10  154.0  15.0  281.0  2.0   0  0.51   88.  1003.   10 NAD-SFC NoSubs
10 12 28 362 20   -8.6  0.154 -9.000 -9.000 -999.  145.     38.0  0.0280  0.72  1.00  2.60  128.0  15.0  280.6  2.0   0  1.27   92.  1003.   10 NAD-SFC NoSubs
10 12 28 362 21  -10.4  0.185 -9.000 -9.000 -999.  191.     54.6  0.0280  0.72  1.00  3.10  126.0  15.0  280.6  2.0   0  1.78   94.  1002.   10 NAD-SFC NoSubs
10 12 28 362 22  -12.2  0.217 -9.000 -9.000 -999.  242.     74.7  0.0280  0.72  1.00  3.60  136.0  15.0  280.8  2.0   0  1.78   95.  1002.   10 NAD-SFC NoSubs
10 12 28 362 23  -13.9  0.248 -9.000 -9.000 -999.  297.     98.1  0.0280  0.72  1.00  4.10  144.0  15.0  281.2  2.0   0  1.78   96.  1001.   10 NAD-SFC NoSubs
10 12 28 362 24  -15.6  0.280 -9.000 -9.000 -999.  355.    124.8  0.0280  0.72  1.00  4.60  138.0  15.0  281.6  2.0   0  1.52   97.   999.   10 NAD-SFC NoSubs
10 12 29 363  1  -17.3  0.311 -9.000 -9.000 -999.  417.    154.9  0.0280  0.72  1.00  5.10  141.0  15.0  281.9  2.0   0  1.52   97.   998.   10 NAD-SFC NoSubs
10 12 29 363  2  -17.3  0.311 -9.000 -9.000 -999.  417.    155.2  0.0280  0.72  1.00  5.10  142.0  15.0  282.4  2.0   0  1.52   97.   997.   10 NAD-SFC NoSubs
10 12 29 363  3  -15.5  0.280 -9.000 -9.000 -999.  355.    125.3  0.0280  0.72  1.00  4.60  141.0  15.0  282.8  2.0   0  1.52   98.   996.   10 NAD-SFC NoSubs
10 12 29 363  4  -20.5  0.246 -9.000 -9.000 -999.  293.     64.3  0.0280  0.72  1.00  4.10  131.0  15.0  283.2  2.0   0  1.27   97.   995.    7 NAD-SFC NoSubs
10 12 29 363  5  -22.0  0.217 -9.000 -9.000 -999.  243.     41.2  0.0310  0.72  1.00  3.60  118.0  15.0  283.9  2.0   0  0.51   95.   994.    4 NAD-SFC NoSubs
10 12 29 363  6  -11.2  0.150 -9.000 -9.000 -999.  141.     26.9  0.0280  0.72  1.00  2.60  131.0  15.0  284.4  2.0   0  0.25   93.   995.    4 NAD-SFC NoSubs
10 12 29 363  7  -10.5  0.144 -9.000 -9.000 -999.  132.     25.4  0.0220  0.72  1.00  2.60  237.0  15.0  284.4  2.0   0  0.00   93.   995.    4 NAD-SFC NoSubs
10 12 29 363  8  -29.2  0.331 -9.000 -9.000 -999.  456.    109.8  0.0420  0.72  0.61  5.10  270.0  15.0  283.6  2.0   0  0.00   98.   996.    4 NAD-SFC NoSubs
10 12 29 363  9   18.6  0.360  0.329  0.005   68.  518.   -222.4  0.0420  0.72  0.34  5.10  291.0  15.0  284.6  2.0   0  0.00   95.   997.    4 NAD-SFC NoSubs
10 12 29 363 10   56.3  0.382  0.705  0.005  221.  566.    -87.9  0.0800  0.72  0.25  4.60  302.0  15.0  285.8  2.0   0  0.00   86.   997.    5 NAD-SFC NoSubs
10 12 29 363 11   70.1  0.245  0.877  0.005  342.  303.    -18.7  0.0800  0.72  0.22  2.60  313.0  15.0  286.1  2.0   0  0.25   82.   997.    7 NAD-SFC NoSubs
10 12 29 363 12   21.8  0.616  0.611  0.005  372. 1159.   -952.2  0.0950  0.72  0.21  7.70  330.0  15.0  286.8  2.0   0  0.25   71.   997.   10 NAD-SFC NoSubs
10 12 29 363 13   67.4  0.681  0.971  0.005  483. 1346.   -416.0  0.0800  0.72  0.21  8.70  316.0  15.0  286.5  2.0   0  0.00   63.   997.    8 NAD-SFC NoSubs
10 12 29 363 14   69.8  0.608  1.045  0.005  583. 1146.   -286.4  0.0800  0.72  0.22  7.70  327.0  15.0  286.0  2.0   0  0.00   61.   998.    7 NAD-SFC NoSubs
10 12 29 363 15   52.6  0.662  0.984  0.005  646. 1290.   -491.1  0.0950  0.72  0.25  8.20  334.0  15.0  284.8  2.0   0  0.00   64.   999.    6 NAD-SFC NoSubs
10 12 29 363 16   17.7  0.460  0.693  0.005  669.  790.   -488.8  0.0950  0.72  0.34  5.70  336.0  15.0  283.8  2.0   0  0.00   70.   999.    4 NAD-SFC NoSubs
10 12 29 363 17  -39.3  0.434 -9.000 -9.000 -999.  688.    185.3  0.0950  0.72  0.61  5.70  338.0  15.0  282.4  2.0   0  0.00   74.   999.    4 NAD-SFC NoSubs
10 12 29 363 18  -39.7  0.386 -9.000 -9.000 -999.  576.    128.8  0.0950  0.72  1.00  5.10  331.0  15.0  281.4  2.0   0  0.00   76.  1000.    4 NAD-SFC NoSubs
10 12 29 363 19  -38.5  0.372 -9.000 -9.000 -999.  545.    119.5  0.0800  0.72  1.00  5.10  326.0  15.0  280.4  2.0   0  0.00   78.  1001.    4 NAD-SFC NoSubs
10 12 29 363 20  -36.0  0.334 -9.000 -9.000 -999.  464.     92.5  0.0800  0.72  1.00  4.60  316.0  15.0  279.6  2.0   0  0.00   80.  1002.    3 NAD-SFC NoSubs
10 12 29 363 21  -36.0  0.334 -9.000 -9.000 -999.  463.     92.3  0.0800  0.72  1.00  4.60  308.0  15.0  279.0  2.0   0  0.00   81.  1002.    3 NAD-SFC NoSubs
10 12 29 363 22  -36.1  0.334 -9.000 -9.000 -999.  463.     92.1  0.0800  0.72  1.00  4.60  321.0  15.0  278.6  2.0   0  0.00   81.  1003.    3 NAD-SFC NoSubs
10 12 29 363 23  -36.2  0.334 -9.000 -9.000 -999.  463.     91.9  0.0800  0.72  1.00  4.60  316.0  15.0  277.9  2.0   0  0.00   82.  1003.    3 NAD-SFC NoSubs
10 12 29 363 24  -40.4  0.372 -9.000 -9.000 -999.  544.    113.6  0.0800  0.72  1.00  5.10  316.0  15.0  277.2  2.0   0  0.00   83.  1003.    3 NAD-SFC NoSubs
10 12 30 364  1  -36.4  0.334 -9.000 -9.000 -999.  464.     91.5  0.0800  0.72  1.00  4.60  327.0  15.0  276.8  2.0   0  0.00   84.  1004.    3 NAD-SFC NoSubs
10 12 30 364  2  -38.8  0.346 -9.000 -9.000 -999.  488.     95.4  0.0950  0.72  1.00  4.60  330.0  15.0  276.1  2.0   0  0.00   84.  1004.    2 NAD-SFC NoSubs
10 12 30 364  3  -33.2  0.296 -9.000 -9.000 -999.  388.     69.8  0.0800  0.72  1.00  4.10  327.0  15.0  275.8  2.0   0  0.00   84.  1004.    2 NAD-SFC NoSubs
10 12 30 364  4  -24.3  0.228 -9.000 -9.000 -999.  263.     43.9  0.0950  0.72  1.00  3.10  334.0  15.0  275.2  2.0   0  0.00   83.  1005.    2 NAD-SFC NoSubs
10 12 30 364  5  -16.8  0.189 -9.000 -9.000 -999.  197.     35.8  0.0950  0.72  1.00  2.60  332.0  15.0  275.0  2.0   0  0.00   83.  1005.    2 NAD-SFC NoSubs
10 12 30 364  6   -2.9  0.086 -9.000 -9.000 -999.   66.     19.6  0.0800  0.72  1.00  1.00  327.0  15.0  274.8  2.0   0  0.00   82.  1006.    2 NAD-SFC NoSubs
10 12 30 364  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  274.4  2.0   0  0.00   82.  1006.    2 NAD-SFC NoSubs
10 12 30 364  8   -0.9  0.065 -9.000 -9.000 -999.   40.     26.1  0.0310  0.72  0.61  0.50   99.0  15.0  274.2  2.0   0  0.00   80.  1007.    2 NAD-SFC NoSubs
10 12 30 364  9   14.2  0.226  0.315  0.005   79.  258.    -73.2  0.0950  0.72  0.34  2.60  359.0  15.0  275.9  2.0   0  0.00   68.  1007.    2 NAD-SFC NoSubs
10 12 30 364 10   54.2  0.357  0.755  0.005  285.  511.    -75.2  0.0960  0.72  0.25  4.10    4.0  15.0  277.8  2.0   0  0.00   54.  1007.    2 NAD-SFC NoSubs
10 12 30 364 11   83.9  0.329  1.017  0.005  450.  454.    -38.2  0.0950  0.72  0.22  3.60  354.0  15.0  279.2  2.0   0  0.00   46.  1007.    3 NAD-SFC NoSubs
10 12 30 364 12   98.5  0.369  1.177  0.005  594.  537.    -45.7  0.0950  0.72  0.21  4.10  336.0  15.0  280.2  2.0   0  0.00   41.  1007.    3 NAD-SFC NoSubs
10 12 30 364 13   98.7  0.405  1.264  0.005  735.  619.    -60.5  0.0950  0.72  0.21  4.60  338.0  15.0  281.0  2.0   0  0.00   38.  1006.    3 NAD-SFC NoSubs
10 12 30 364 14   84.3  0.402  1.262  0.005  855.  611.    -69.0  0.0950  0.72  0.22  4.60  335.0  15.0  281.4  2.0   0  0.00   38.  1006.    3 NAD-SFC NoSubs
10 12 30 364 15   56.1  0.357  1.132  0.005  927.  513.    -72.6  0.0950  0.72  0.25  4.10  331.0  15.0  281.6  2.0   0  0.00   39.  1005.    3 NAD-SFC NoSubs
10 12 30 364 16   16.6  0.228  0.760  0.005  947.  272.    -64.1  0.0950  0.72  0.34  2.60  332.0  15.0  281.2  2.0   0  0.00   47.  1005.    3 NAD-SFC NoSubs
10 12 30 364 17  -10.0  0.151 -9.000 -9.000 -999.  143.     30.7  0.0950  0.72  0.61  2.10  331.0  15.0  280.8  2.0   0  0.00   50.  1005.    3 NAD-SFC NoSubs
10 12 30 364 18  -10.0  0.145 -9.000 -9.000 -999.  132.     27.2  0.0800  0.72  1.00  2.10  328.0  15.0  280.0  2.0   0  0.00   53.  1005.    3 NAD-SFC NoSubs
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10 12 30 364 19   -5.2  0.105 -9.000 -9.000 -999.   82.     20.0  0.0800  0.72  1.00  1.50  318.0  15.0  279.2  2.0   0  0.00   56.  1006.   3 NAD-SFC NoSubs
10 12 30 364 20   -2.4  0.079 -9.000 -9.000 -999.   53.     18.0  0.0420  0.72  1.00  1.00  290.0  15.0  278.4  2.0   0  0.00   60.  1006.   3 NAD-SFC NoSubs
10 12 30 364 21   -4.4  0.095 -9.000 -9.000 -999.   70.     17.4  0.0420  0.72  1.00  1.50  277.0  15.0  277.5  2.0   0  0.00   64.  1006.   3 NAD-SFC NoSubs
10 12 30 364 22   -2.5  0.079 -9.000 -9.000 -999.   53.     18.0  0.0420  0.72  1.00  1.00  271.0  15.0  276.6  2.0   0  0.00   68.  1007.   3 NAD-SFC NoSubs
10 12 30 364 23   -1.0  0.065 -9.000 -9.000 -999.   40.     26.0  0.0220  0.72  1.00  0.50  188.0  15.0  275.8  2.0   0  0.00   72.  1007.   3 NAD-SFC NoSubs
10 12 30 364 24   -4.1  0.091 -9.000 -9.000 -999.   66.     16.4  0.0310  0.72  1.00  1.50  118.0  15.0  274.9  2.0   0  0.00   75.  1007.   3 NAD-SFC NoSubs
10 12 31 365  1   -7.7  0.122 -9.000 -9.000 -999.  102.     20.8  0.0310  0.72  1.00  2.10  117.0  15.0  274.2  2.0   0  0.00   77.  1007.   3 NAD-SFC NoSubs
10 12 31 365  2   -7.6  0.120 -9.000 -9.000 -999.   99.     20.3  0.0280  0.72  1.00  2.10  132.0  15.0  273.8  2.0   0  0.00   79.  1007.   3 NAD-SFC NoSubs
10 12 31 365  3   -7.6  0.120 -9.000 -9.000 -999.   99.     20.3  0.0280  0.72  1.00  2.10  135.0  15.0  273.2  2.0   0  0.00   80.  1007.   3 NAD-SFC NoSubs
10 12 31 365  4   -4.1  0.090 -9.000 -9.000 -999.   65.     16.1  0.0280  0.72  1.00  1.50  131.0  15.0  273.0  2.0   0  0.00   82.  1008.   3 NAD-SFC NoSubs
10 12 31 365  5   -4.1  0.090 -9.000 -9.000 -999.   65.     16.1  0.0280  0.72  1.00  1.50  138.0  15.0  272.6  2.0   0  0.00   84.  1008.   3 NAD-SFC NoSubs
10 12 31 365  6   -4.1  0.090 -9.000 -9.000 -999.   65.     16.1  0.0280  0.72  1.00  1.50  144.0  15.0  272.2  2.0   0  0.00   86.  1009.   3 NAD-SFC NoSubs
10 12 31 365  7   -2.3  0.076 -9.000 -9.000 -999.   50.     17.3  0.0280  0.72  1.00  1.00  143.0  15.0  272.1  2.0   0  0.00   89.  1010.   3 NAD-SFC NoSubs
10 12 31 365  8   -0.9  0.064 -9.000 -9.000 -999.   39.     25.7  0.0280  0.72  0.61  0.50  134.0  15.0  271.9  2.0   0  0.00   91.  1011.   3 NAD-SFC NoSubs
10 12 31 365  9   13.9  0.054  0.281  0.008   57.   30.     -1.0  0.0240  0.72  0.34  0.50  153.0  15.0  273.5  2.0   0  0.00   86.  1011.   2 NAD-SFC NoSubs
10 12 31 365 10   53.9 -9.000 -9.000 -9.000  187. -999. -99999.0  0.0471  0.72  0.25  0.00    0.0  15.0  275.8  2.0   0  0.00   78.  1012.   2 NAD-SFC NoSubs
10 12 31 365 11   82.8 -9.000 -9.000 -9.000  378. -999. -99999.0  0.0471  0.72  0.22  0.00    0.0  15.0  277.4  2.0   0  0.00   68.  1012.   2 NAD-SFC NoSubs
10 12 31 365 12   97.6 -9.000 -9.000 -9.000  590. -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0  278.2  2.0   0  0.00   60.  1011.   2 NAD-SFC NoSubs
10 12 31 365 13   97.8  0.067  1.260  0.005  738.   42.     -1.0  0.0200  0.72  0.21  0.50  263.0  15.0  278.8  2.0   0  0.00   54.  1011.   2 NAD-SFC NoSubs
10 12 31 365 14   83.3  0.074  1.247  0.005  840.   49.     -1.0  0.0420  0.72  0.22  0.50  281.0  15.0  279.1  2.0   0  0.00   51.  1010.   2 NAD-SFC NoSubs
10 12 31 365 15   54.9  0.080  1.111  0.005  901.   54.     -1.0  0.0800  0.72  0.25  0.50  305.0  15.0  279.4  2.0   0  0.00   49.  1010.   2 NAD-SFC NoSubs
10 12 31 365 16   15.1  0.110  0.728  0.005  916.   87.     -7.9  0.0950  0.72  0.34  1.00  344.0  15.0  279.1  2.0   0  0.00   41.  1010.   2 NAD-SFC NoSubs
10 12 31 365 17   -4.7  0.100 -9.000 -9.000 -999.   76.     19.5  0.0650  0.72  0.60  1.50   30.0  15.0  278.4  2.0   0  0.00   46.  1009.   2 NAD-SFC NoSubs
10 12 31 365 18   -9.6  0.139 -9.000 -9.000 -999.  124.     25.1  0.0650  0.72  1.00  2.10   37.0  15.0  277.5  2.0   0  0.00   50.  1010.   2 NAD-SFC NoSubs
10 12 31 365 19   -4.5  0.095 -9.000 -9.000 -999.   70.     17.1  0.0400  0.72  1.00  1.50   63.0  15.0  276.5  2.0   0  0.00   54.  1010.   2 NAD-SFC NoSubs
10 12 31 365 20   -1.0  0.068 -9.000 -9.000 -999.   43.     27.1  0.0310  0.72  1.00  0.50   97.0  15.0  275.8  2.0   0  0.00   60.  1010.   2 NAD-SFC NoSubs
10 12 31 365 21   -1.0  0.068 -9.000 -9.000 -999.   43.     27.1  0.0310  0.72  1.00  0.50  119.0  15.0  275.5  2.0   0  0.00   64.  1011.   2 NAD-SFC NoSubs
10 12 31 365 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  275.5  2.0   0  0.00   65.  1011.   2 NAD-SFC NoSubs
10 12 31 365 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  275.4  2.0   0  0.00   66.  1012.   2 NAD-SFC NoSubs
10 12 31 365 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  275.2  2.0   0  0.00   68.  1012.   2 NAD-SFC NoSubs
11  1  1   1  1   -1.2  0.073 -9.000 -9.000 -999.   47.     29.0  0.0650  0.72  1.00  0.50   51.0  15.0  275.0  2.0   0  0.00   69.  1012.   2 NAD-SFC NoSubs
11  1  1   1  2   -1.3  0.076 -9.000 -9.000 -999.   50.     30.0  0.0960  0.72  1.00  0.50   18.0  15.0  274.8  2.0   0  0.00   68.  1012.   2 NAD-SFC NoSubs
11  1  1   1  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  274.6  2.0   0  0.00   69.  1012.   2 NAD-SFC NoSubs
11  1  1   1  4   -2.8  0.084 -9.000 -9.000 -999.   58.     19.1  0.0650  0.72  1.00  1.00   33.0  15.0  274.6  2.0   0  0.00   69.  1013.   2 NAD-SFC NoSubs
11  1  1   1  5   -1.2  0.073 -9.000 -9.000 -999.   47.     29.0  0.0650  0.72  1.00  0.50   43.0  15.0  274.9  2.0   0  0.00   67.  1013.   2 NAD-SFC NoSubs
11  1  1   1  6   -1.0  0.068 -9.000 -9.000 -999.   43.     27.1  0.0310  0.72  1.00  0.50   92.0  15.0  275.4  2.0   0  0.00   63.  1013.   2 NAD-SFC NoSubs
11  1  1   1  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  276.0  2.0   0  0.00   56.  1013.   3 NAD-SFC NoSubs
11  1  1   1  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.61  0.00    0.0  15.0  276.8  2.0   0  0.00   49.  1013.   3 NAD-SFC NoSubs
11  1  1   1  9   15.8 -9.000 -9.000 -9.000   57. -999. -99999.0  0.0471  0.72  0.34  0.00    0.0  15.0  277.2  2.0   0  0.00   47.  1014.   3 NAD-SFC NoSubs
11  1  1   1 10   55.8  0.173  0.650  0.008  178.  172.     -8.3  0.0280  0.72  0.25  2.10  121.0  15.0  279.9  2.0   0  0.00   34.  1014.   3 NAD-SFC NoSubs
11  1  1   1 11   84.6  0.107  0.906  0.008  318.   85.     -1.3  0.0280  0.72  0.22  1.00  134.0  15.0  281.8  2.0   0  0.00   28.  1014.   3 NAD-SFC NoSubs
11  1  1   1 12   99.6 -9.000 -9.000 -9.000  440. -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0  283.1  2.0   0  0.00   26.  1013.   3 NAD-SFC NoSubs
11  1  1   1 13   99.4  0.089  1.147  0.006  548.   64.     -1.0  0.0950  0.72  0.21  0.50  353.0  15.0  283.8  2.0   0  0.00   27.  1013.   4 NAD-SFC NoSubs
11  1  1   1 14   83.2  0.256  1.129  0.006  624.  311.    -18.2  0.0950  0.72  0.22  2.60  339.0  15.0  283.4  2.0   0  0.00   33.  1012.   5 NAD-SFC NoSubs
11  1  1   1 15   53.5  0.283  0.997  0.006  668.  362.    -38.4  0.0950  0.72  0.25  3.10  352.0  15.0  282.2  2.0   0  0.00   43.  1012.   6 NAD-SFC NoSubs
11  1  1   1 16   18.7  0.266  0.708  0.006  683.  330.    -91.0  0.0950  0.72  0.34  3.10  354.0  15.0  281.2  2.0   0  0.00   50.  1012.   6 NAD-SFC NoSubs
11  1  1   1 17  -19.4  0.231 -9.000 -9.000 -999.  267.     57.2  0.0960  0.72  0.60  3.10    1.0  15.0  280.5  2.0   0  0.00   55.  1012.   5 NAD-SFC NoSubs
11  1  1   1 18  -15.1  0.183 -9.000 -9.000 -999.  188.     36.6  0.0800  0.72  1.00  2.60  327.0  15.0  279.8  2.0   0  0.00   63.  1013.   5 NAD-SFC NoSubs
11  1  1   1 19   -2.7  0.084 -9.000 -9.000 -999.   64.     19.7  0.0950  0.72  1.00  1.00  334.0  15.0  279.9  2.0   0  0.25   65.  1013.   5 NAD-SFC NoSubs
11  1  1   1 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  280.1  2.0   0  0.25   65.  1013.   5 NAD-SFC NoSubs
11  1  1   1 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  279.9  2.0   0  0.25   69.  1013.   5 NAD-SFC NoSubs
11  1  1   1 22   -0.6  0.055 -9.000 -9.000 -999.   31.     23.0  0.0650  0.72  1.00  0.50   32.0  15.0  279.8  2.0   0  0.00   72.  1013.  10 NAD-SFC NoSubs
11  1  1   1 23   -0.6  0.052 -9.000 -9.000 -999.   29.     21.9  0.0400  0.72  1.00  0.50   60.0  15.0  279.9  2.0   0  0.00   73.  1013.  10 NAD-SFC NoSubs
11  1  1   1 24   -0.5  0.050 -9.000 -9.000 -999.   27.     20.8  0.0240  0.72  1.00  0.50  170.0  15.0  279.9  2.0   0  0.00   75.  1012.  10 NAD-SFC NoSubs
11  1  2   2  1   -1.3  0.061 -9.000 -9.000 -999.   36.     15.5  0.0240  0.72  1.00  1.00  156.0  15.0  279.8  2.0   0  0.51   80.  1011.  10 NAD-SFC NoSubs
11  1  2   2  2   -2.8  0.085 -9.000 -9.000 -999.   60.     20.3  0.0280  0.72  1.00  1.50  132.0  15.0  279.9  2.0   0  1.02   85.  1010.  10 NAD-SFC NoSubs
11  1  2   2  3  -10.5  0.185 -9.000 -9.000 -999.  191.     54.5  0.0280  0.72  1.00  3.10  132.0  15.0  280.0  2.0   0  1.78   88.  1009.  10 NAD-SFC NoSubs
11  1  2   2  4  -29.6  0.347 -9.000 -9.000 -999.  490.    126.4  0.0280  0.72  1.00  5.70  120.0  15.0  280.4  2.0   0  2.29   87.  1009.   7 NAD-SFC NoSubs
11  1  2   2  5  -38.4  0.450 -9.000 -9.000 -999.  724.    213.0  0.0310  0.72  1.00  7.20  116.0  15.0  280.8  2.0   0  2.79   85.  1008.   7 NAD-SFC NoSubs
11  1  2   2  6  -38.4  0.450 -9.000 -9.000 -999.  724.    213.0  0.0310  0.72  1.00  7.20  117.0  15.0  280.8  2.0   0  3.05   85.  1008.   7 NAD-SFC NoSubs
11  1  2   2  7  -34.6  0.451 -9.000 -9.000 -999.  726.    237.8  0.0310  0.72  1.00  7.20  119.0  15.0  280.9  2.0   0  2.79   84.  1008.   8 NAD-SFC NoSubs
11  1  2   2  8  -26.1  0.487 -9.000 -9.000 -999.  815.    398.6  0.0310  0.72  0.61  7.70  116.0  15.0  280.9  2.0   0  2.54   84.  1008.  10 NAD-SFC NoSubs
11  1  2   2  9   -1.2  0.490 -9.000 -9.000 -999.  824.   8888.0  0.0280  0.72  0.34  7.70  120.0  15.0  280.9  2.0   0  2.29   83.  1008.  10 NAD-SFC NoSubs
11  1  2   2 10   38.4  0.534  0.646  0.006  252.  935.    -356.2  0.0280  0.72  0.25  8.20  121.0  15.0  281.2  2.0   0  1.52   80.  1008.   8 NAD-SFC NoSubs
11  1  2   2 11   82.4  0.484  1.000  0.007  437.  810.    -123.3  0.0280  0.72  0.22  7.20  135.0  15.0  282.0  2.0   0  0.51   76.  1008.   5 NAD-SFC NoSubs
11  1  2   2 12   96.5  0.397  1.136  0.008  547.  606.     -58.2  0.0280  0.72  0.21  5.70  131.0  15.0  282.8  2.0   0  0.25   74.  1007.   5 NAD-SFC NoSubs
11  1  2   2 13   67.6  0.355  1.049  0.008  613.  509.     -59.3  0.0280  0.72  0.21  5.10  129.0  15.0  283.5  2.0   0  0.25   72.  1006.   8 NAD-SFC NoSubs
11  1  2   2 14   17.8  0.217  0.678  0.008  629.  256.     -51.8  0.0280  0.72  0.22  3.10  127.0  15.0  283.8  2.0   0  0.25   72.  1005.  10 NAD-SFC NoSubs
11  1  2   2 15   10.6  0.143  0.573  0.007  638.  132.     -24.8  0.0950  0.72  0.25  1.50  350.0  15.0  283.2  2.0   0  0.51   77.  1005.  10 NAD-SFC NoSubs
11  1  2   2 16    0.4  0.324  0.194  0.007  637.  444.   -7476.4  0.0950  0.72  0.34  4.10  344.0  15.0  282.2  2.0   0  0.51   82.  1005.  10 NAD-SFC NoSubs
11  1  2   2 17  -16.2  0.312 -9.000 -9.000 -999.  417.    167.1  0.0950  0.72  0.59  4.10  348.0  15.0  281.8  2.0   0  0.76   85.  1005.  10 NAD-SFC NoSubs
11  1  2   2 18  -13.1  0.233 -9.000 -9.000 -999.  273.     86.5  0.0960  0.72  1.00  3.10   11.0  15.0  281.2  2.0   0  0.76   86.  1005.  10 NAD-SFC NoSubs
11  1  2   2 19  -10.9  0.194 -9.000 -9.000 -999.  205.     59.8  0.0960  0.72  1.00  2.60   22.0  15.0  281.0  2.0   0  1.02   88.  1006.  10 NAD-SFC NoSubs
11  1  2   2 20   -7.9  0.154 -9.000 -9.000 -999.  146.     41.9  0.0960  0.72  1.00  2.10   15.0  15.0  280.8  2.0   0  0.76   90.  1007.  10 NAD-SFC NoSubs
11  1  2   2 21   -3.9  0.107 -9.000 -9.000 -999.   85.     28.3  0.0960  0.72  1.00  1.50   24.0  15.0  280.6  2.0   0  0.51   89.  1007.  10 NAD-SFC NoSubs
11  1  2   2 22   -0.6  0.055 -9.000 -9.000 -999.   31.     23.0  0.0650  0.72  1.00  0.50   45.0  15.0  280.6  2.0   0  0.25   87.  1007.  10 NAD-SFC NoSubs
11  1  2   2 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  280.6  2.0   0  0.00   84.  1008.  10 NAD-SFC NoSubs
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11	1	2	2	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	280.5	2.0	0	0.00	82.	1008.	10	NAD-SFC NoSubs
11	1	3	3	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	280.5	2.0	0	0.00	80.	1008.	10	NAD-SFC NoSubs
11	1	3	3	2	-0.5	0.049	-9.000	-9.000	-999.	26.	20.6	0.0220	0.72	1.00	0.50	216.0	15.0	280.5	2.0	0	0.00	79.	1008.	10	NAD-SFC NoSubs
11	1	3	3	3	-0.5	0.049	-9.000	-9.000	-999.	26.	20.5	0.0200	0.72	1.00	0.50	244.0	15.0	280.5	2.0	0	0.00	78.	1008.	10	NAD-SFC NoSubs
11	1	3	3	4	-0.6	0.052	-9.000	-9.000	-999.	29.	22.0	0.0420	0.72	1.00	0.50	280.0	15.0	280.4	2.0	0	0.00	77.	1009.	10	NAD-SFC NoSubs
11	1	3	3	5	-0.5	0.049	-9.000	-9.000	-999.	26.	20.5	0.0200	0.72	1.00	0.50	247.0	15.0	280.4	2.0	0	0.00	77.	1009.	10	NAD-SFC NoSubs
11	1	3	3	6	-0.6	0.052	-9.000	-9.000	-999.	29.	22.0	0.0420	0.72	1.00	0.50	289.0	15.0	280.2	2.0	0	0.00	79.	1010.	10	NAD-SFC NoSubs
11	1	3	3	7	-7.5	0.149	-9.000	-9.000	-999.	137.	39.6	0.0800	0.72	1.00	2.10	316.0	15.0	279.9	2.0	0	0.00	85.	1010.	10	NAD-SFC NoSubs
11	1	3	3	8	-8.5	0.147	-9.000	-9.000	-999.	135.	33.6	0.0800	0.72	0.61	2.10	319.0	15.0	279.6	2.0	0	0.00	90.	1011.	7	NAD-SFC NoSubs
11	1	3	3	9	17.8	0.187	0.372	0.005	104.	194.	-33.1	0.0800	0.72	0.34	2.10	318.0	15.0	280.4	2.0	0	0.00	86.	1011.	5	NAD-SFC NoSubs
11	1	3	3	10	56.6	0.161	1.022	0.005	681.	156.	-6.7	0.0800	0.72	0.25	1.50	324.0	15.0	281.5	2.0	0	0.00	78.	1011.	4	NAD-SFC NoSubs
11	1	3	3	11	85.2	0.133	1.221	0.005	771.	117.	-2.5	0.0950	0.72	0.22	1.00	332.0	15.0	282.5	2.0	0	0.00	71.	1011.	3	NAD-SFC NoSubs
11	1	3	3	12	100.3	0.132	1.340	0.005	866.	115.	-2.0	0.0800	0.72	0.21	1.00	328.0	15.0	283.4	2.0	0	0.00	65.	1011.	3	NAD-SFC NoSubs
11	1	3	3	13	100.9	0.136	1.386	0.005	953.	120.	-2.2	0.0950	0.72	0.21	1.00	331.0	15.0	284.1	2.0	0	0.00	61.	1010.	3	NAD-SFC NoSubs
11	1	3	3	14	87.0	0.174	1.353	0.005	1026.	175.	-5.5	0.0950	0.72	0.22	1.50	332.0	15.0	284.6	2.0	0	0.00	59.	1010.	3	NAD-SFC NoSubs
11	1	3	3	15	59.1	0.249	1.208	0.005	1075.	298.	-23.5	0.0950	0.72	0.25	2.60	337.0	15.0	284.8	2.0	0	0.00	58.	1009.	3	NAD-SFC NoSubs
11	1	3	3	16	19.7	0.267	0.843	0.005	1090.	331.	-86.6	0.0950	0.72	0.33	3.10	350.0	15.0	284.4	2.0	0	0.00	64.	1009.	3	NAD-SFC NoSubs
11	1	3	3	17	-4.6	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	0.59	0.00	0.0	15.0	283.2	2.0	0	0.00	72.	1010.	3	NAD-SFC NoSubs
11	1	3	3	18	-28.9	0.268	-9.000	-9.000	-999.	334.	60.3	0.0960	0.72	1.00	3.60	11.0	15.0	282.1	2.0	0	0.00	76.	1010.	3	NAD-SFC NoSubs
11	1	3	3	19	-16.6	0.189	-9.000	-9.000	-999.	200.	36.9	0.0960	0.72	1.00	2.60	27.0	15.0	281.6	2.0	0	0.00	77.	1011.	3	NAD-SFC NoSubs
11	1	3	3	20	-1.3	0.074	-9.000	-9.000	-999.	59.	29.5	0.0960	0.72	1.00	0.50	18.0	15.0	280.8	2.0	0	0.00	81.	1012.	3	NAD-SFC NoSubs
11	1	3	3	21	-1.2	0.073	-9.000	-9.000	-999.	47.	29.1	0.0800	0.72	1.00	0.50	307.0	15.0	279.9	2.0	0	0.00	85.	1012.	3	NAD-SFC NoSubs
11	1	3	3	22	-2.9	0.086	-9.000	-9.000	-999.	61.	19.9	0.0950	0.72	1.00	1.00	339.0	15.0	279.2	2.0	0	0.00	88.	1013.	3	NAD-SFC NoSubs
11	1	3	3	23	-2.9	0.086	-9.000	-9.000	-999.	61.	19.9	0.0950	0.72	1.00	1.00	351.0	15.0	278.5	2.0	0	0.00	91.	1014.	3	NAD-SFC NoSubs
11	1	3	3	24	-2.9	0.087	-9.000	-9.000	-999.	61.	19.9	0.0950	0.72	1.00	1.00	337.0	15.0	278.0	2.0	0	0.00	93.	1014.	3	NAD-SFC NoSubs
11	1	4	4	1	-5.3	0.105	-9.000	-9.000	-999.	82.	19.9	0.0800	0.72	1.00	1.50	326.0	15.0	277.6	2.0	0	0.00	94.	1014.	3	NAD-SFC NoSubs
11	1	4	4	2	-10.1	0.145	-9.000	-9.000	-999.	132.	27.0	0.0800	0.72	1.00	2.10	326.0	15.0	277.1	2.0	0	0.00	94.	1014.	3	NAD-SFC NoSubs
11	1	4	4	3	-10.2	0.145	-9.000	-9.000	-999.	132.	27.0	0.0800	0.72	1.00	2.10	318.0	15.0	276.8	2.0	0	0.00	92.	1015.	3	NAD-SFC NoSubs
11	1	4	4	4	-4.5	0.095	-9.000	-9.000	-999.	71.	17.4	0.0420	0.72	1.00	1.50	299.0	15.0	276.2	2.0	0	0.00	90.	1015.	3	NAD-SFC NoSubs
11	1	4	4	5	-8.4	0.128	-9.000	-9.000	-999.	110.	22.5	0.0420	0.72	1.00	2.10	271.0	15.0	275.8	2.0	0	0.00	88.	1015.	3	NAD-SFC NoSubs
11	1	4	4	6	-13.1	0.161	-9.000	-9.000	-999.	155.	28.7	0.0420	0.72	1.00	2.60	272.0	15.0	275.4	2.0	0	0.00	84.	1016.	3	NAD-SFC NoSubs
11	1	4	4	7	-19.0	0.195	-9.000	-9.000	-999.	206.	35.2	0.0420	0.72	1.00	3.10	276.0	15.0	274.9	2.0	0	0.00	80.	1016.	3	NAD-SFC NoSubs
11	1	4	4	8	-18.1	0.195	-9.000	-9.000	-999.	207.	37.4	0.0420	0.72	0.62	3.10	288.0	15.0	274.5	2.0	0	0.00	77.	1017.	3	NAD-SFC NoSubs
11	1	4	4	9	14.0	0.326	0.313	0.005	79.	447.	-224.8	0.0800	0.72	0.34	4.10	316.0	15.0	276.1	2.0	0	0.00	64.	1017.	2	NAD-SFC NoSubs
11	1	4	4	10	54.5	0.275	0.622	0.005	160.	347.	-34.6	0.0800	0.72	0.25	3.10	317.0	15.0	277.6	2.0	0	0.00	58.	1017.	2	NAD-SFC NoSubs
11	1	4	4	11	83.8	0.213	0.838	0.007	255.	237.	-10.4	0.0800	0.72	0.22	2.10	307.0	15.0	279.2	2.0	0	0.00	54.	1017.	2	NAD-SFC NoSubs
11	1	4	4	12	99.3	0.216	0.993	0.005	357.	241.	-9.2	0.0800	0.72	0.21	2.10	313.0	15.0	280.9	2.0	0	0.00	48.	1016.	2	NAD-SFC NoSubs
11	1	4	4	13	100.0	0.216	1.128	0.005	520.	241.	-9.2	0.0800	0.72	0.21	2.10	325.0	15.0	281.9	2.0	0	0.00	46.	1015.	2	NAD-SFC NoSubs
11	1	4	4	14	86.1	0.249	1.163	0.005	661.	298.	-16.2	0.0800	0.72	0.22	2.60	322.0	15.0	282.5	2.0	0	0.00	46.	1015.	2	NAD-SFC NoSubs
11	1	4	4	15	58.1	0.249	1.054	0.005	730.	298.	-23.9	0.0950	0.72	0.25	2.60	331.0	15.0	282.8	2.0	0	0.00	46.	1014.	2	NAD-SFC NoSubs
11	1	4	4	16	18.4	0.193	0.725	0.005	750.	205.	-35.5	0.0950	0.72	0.33	2.10	350.0	15.0	282.6	2.0	0	0.00	52.	1014.	2	NAD-SFC NoSubs
11	1	4	4	17	-10.0	0.151	-9.000	-9.000	-999.	141.	31.3	0.0960	0.72	0.58	2.10	13.0	15.0	281.9	2.0	0	0.00	55.	1014.	2	NAD-SFC NoSubs
11	1	4	4	18	-1.3	0.075	-9.000	-9.000	-999.	51.	29.8	0.0960	0.72	1.00	0.50	19.0	15.0	280.8	2.0	0	0.00	59.	1015.	2	NAD-SFC NoSubs
11	1	4	4	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	279.8	2.0	0	0.00	65.	1015.	2	NAD-SFC NoSubs
11	1	4	4	20	-1.1	0.070	-9.000	-9.000	-999.	44.	27.7	0.0420	0.72	1.00	0.50	299.0	15.0	278.8	2.0	0	0.00	70.	1016.	2	NAD-SFC NoSubs
11	1	4	4	21	-5.3	0.105	-9.000	-9.000	-999.	82.	19.8	0.0800	0.72	1.00	1.50	307.0	15.0	277.8	2.0	0	0.00	74.	1016.	2	NAD-SFC NoSubs
11	1	4	4	22	-5.4	0.105	-9.000	-9.000	-999.	82.	19.8	0.0800	0.72	1.00	1.50	319.0	15.0	277.1	2.0	0	0.00	77.	1017.	2	NAD-SFC NoSubs
11	1	4	4	23	-5.4	0.105	-9.000	-9.000	-999.	82.	19.8	0.0800	0.72	1.00	1.50	322.0	15.0	276.5	2.0	0	0.00	78.	1017.	2	NAD-SFC NoSubs
11	1	4	4	24	-10.3	0.145	-9.000	-9.000	-999.	132.	26.6	0.0800	0.72	1.00	2.10	318.0	15.0	276.0	2.0	0	0.00	78.	1017.	2	NAD-SFC NoSubs
11	1	5	5	1	-16.1	0.182	-9.000	-9.000	-999.	186.	34.0	0.0800	0.72	1.00	2.60	315.0	15.0	275.5	2.0	0	0.00	78.	1017.	2	NAD-SFC NoSubs
11	1	5	5	2	-16.1	0.182	-9.000	-9.000	-999.	186.	33.9	0.0800	0.72	1.00	2.60	304.0	15.0	275.0	2.0	0	0.00	77.	1017.	2	NAD-SFC NoSubs
11	1	5	5	3	-13.3	0.161	-9.000	-9.000	-999.	155.	28.2	0.0420	0.72	1.00	2.60	287.0	15.0	274.6	2.0	0	0.00	76.	1017.	2	NAD-SFC NoSubs
11	1	5	5	4	-16.1	0.182	-9.000	-9.000	-999.	186.	33.9	0.0800	0.72	1.00	2.60	300.0	15.0	274.2	2.0	0	0.00	74.	1017.	2	NAD-SFC NoSubs
11	1	5	5	5	-10.3	0.144	-9.000	-9.000	-999.	132.	26.4	0.0800	0.72	1.00	2.10	312.0	15.0	273.9	2.0	0	0.00	73.	1017.	2	NAD-SFC NoSubs
11	1	5	5	6	-5.4	0.106	-9.000	-9.000	-999.	82.	19.7	0.0800	0.72	1.00	1.50	315.0	15.0	273.5	2.0	0	0.00	74.	1017.	2	NAD-SFC NoSubs
11	1	5	5	7	-5.4	0.106	-9.000	-9.000	-999.	82.	19.7	0.0800	0.72	1.00	1.50	302.0	15.0	273.2	2.0	0	0.00	75.	1018.	2	NAD-SFC NoSubs
11	1	5	5	8	-2.7	0.083	-9.000	-9.000	-999.	58.	19.3	0.0800	0.72	0.62	1.00	305.0	15.0	273.1	2.0	0	0.00	74.	1018.	2	NAD-SFC NoSubs
11	1	5	5	9	13.9	0.142	0.282	0.012	58.	128.	-18.5	0.0800	0.72	0.34	1.50	319.0	15.0	274.8	2.0	0	0.00	65.	1018.	2	NAD-SFC NoSubs
11	1	5	5	10	54.5	0.161	0.603	0.012	146.	154.	-6.9	0.0800	0.72	0.25	1.50	318.0	15.0	276.4	2.0	0	0.00	59.	1018.	2	NAD-SFC NoSubs
11	1	5	5	11	84.0	0.168	0.830	0.010	247.	165.	-5.1	0.0800	0.72	0.22	1.50	318.0	15.0	278.4	2.0	0	0.00	53.	1018.	2	NAD-SFC NoSubs
11	1	5	5	12	99.5	0.131	0.992	0.010	356.	114.	-2.1	0.0800	0.72	0.21	1.00	319.0	15.0	280.1	2.0	0	0.00	49.	1017.	2	NAD-SFC NoSubs
11	1	5	5	13	100.5	0.172	1.080	0.010	454.	171.	-4.6	0.0800	0.72	0.21	1.50	318.0	15.0	282.0	2.0	0	0.00	43.	1016.	2	NAD-SFC NoSubs
11	1	5	5	14	86.8	0.174	1.083	0.010	530.	174.	-5.5	0.0950	0.72	0.22	1.50	330.0	15.0	283.0	2.0	0	0.00	39.	1016.	2	NAD-SFC NoSubs
11	1	5	5	15	58.9	0.167	0.978	0.009	576.	164.	-7.2	0.0950	0.72	0.25	1.50	335.0	15.0	283.4	2.0	0	0.00	39.	1015.	2	NAD-SFC NoSubs
11	1	5	5	16	19.3	0.194	0.681	0.009	591.	205.	-34.2	0.0950	0.72	0.33	2.10	338.0	15.0	283.8	2.0	0	0.00	47.	1014.	2	NAD-SFC NoSubs
11	1	5	5	17	-9.9	0.151	-9.000	-9.000	-999.	141.	31.6	0.0950	0.72	0.58	2.10	349.0	15.0	283.1	2.0	0	0.00	49.	1014.	2	NAD-SFC NoSubs
11	1	5	5	18	-5.6	0.108	-9.000	-9.000	-999.	86.	20.7	0.0950	0.72	1.00	1.50	336.0	15.0	282.1	2.0	0	0.00	53.	1015.	2	NAD-SFC NoSubs
11	1	5	5	19	-5.3	0.105	-9.000	-9.000	-999.	82.	19.9	0.0800	0.72	1.00	1.50	317.0	15.0	281.1	2.0	0	0.00	57.	1015.	2	NAD-SFC NoSubs
11	1	5	5	20	-2.9	0.085	-9.000	-9.000	-999.	60.	19.5	0.0800	0.72	1.00	1.00	307.0	15.0	280.1	2.0	0	0.00	61.	1015.	2	NAD-SFC NoSubs
11	1	5	5	21	-2.9	0.085	-9.000	-9.000	-999.	60.	19.6	0.0800	0.72	1.00	1.00	312.0	15.0	279.2	2.0	0	0.00	64.	1016.	2	NAD-SFC NoSubs
11	1	5	5	22	-1.3	0.074	-9.000	-9.000	-999.	48.	29.4	0.0800	0.72	1.00	0.50	310.0	15.0	278.5	2.0	0	0.00	68.	1016.	2	NAD-SFC NoSubs
11	1	5	5	23	-1.3	0.074	-9.000	-9.000	-999.	48.	29.4	0.0800	0.72	1.00	0.50	318.0	15.0	277.8	2.0	0	0.00	70.	1016.	2	NAD-SFC NoSubs
11	1	5	5	24	-2.9	0.086	-9.000	-9.000	-999.	60.	19.6	0.0800	0.72	1.00	1.00	312.0	15.0	277.2	2.0	0	0.00	72.	1016.	2	NAD-SFC NoSubs
11	1	6	6	1	-5.4	0.105	-9.000	-9.000	-999.	82.	19.8	0.0800	0.72	1.00	1.50	306.0	15.0	276.8	2.0	0	0.00	71.	1016.	2	NAD-SFC NoSubs
11	1	6	6	2	-10.3	0.145	-9.000	-9.000	-999.	132.	26.6	0.0800	0.72	1.00	2.10	303.0	15.0	276.5	2.0	0	0.00	69.	1016.	2	NAD-SFC NoSubs
11	1	6	6	3	-16.1	0.182	-9.000	-9.000	-999.	186.	34.0	0.0800	0.72	1.00	2.60	305.0	15.0	276.1	2.0	0	0.00	65.	1016.	2	NAD-SFC NoSubs
11	1	6	6	4	-16.1	0.182	-9.000	-9.000	-999.	186.	34.0	0.0800	0.72	1.00	2.60	303.0	15.0	275.8	2.0	0	0.00	61.	1016.	2	NAD-SFC NoSubs

11	1	6	6	5	-10.3	0.145	-9.000	-9.000	-999.	132.	26.5	0.0800	0.72	1.00	2.10	302.0	15.0	275.4	2.0	0	0.00	60.	1016.	2	NAD-SFC	NoSubs
11	1	6	6	6	-8.6	0.128	-9.000	-9.000	-999.	110.	22.2	0.0420	0.72	1.00	2.10	286.0	15.0	275.1	2.0	0	0.00	59.	1016.	2	NAD-SFC	NoSubs
11	1	6	6	7	-4.6	0.095	-9.000	-9.000	-999.	71.	17.3	0.0420	0.72	1.00	1.50	288.0	15.0	275.0	2.0	0	0.00	58.	1016.	2	NAD-SFC	NoSubs
11	1	6	6	8	-2.3	0.077	-9.000	-9.000	-999.	51.	17.8	0.0420	0.72	0.62	1.00	292.0	15.0	275.2	2.0	0	0.00	57.	1016.	2	NAD-SFC	NoSubs
11	1	6	6	9	14.1	0.127	0.290	0.016	63.	109.	-13.3	0.0420	0.72	0.34	1.50	298.0	15.0	275.8	2.0	0	0.00	54.	1016.	2	NAD-SFC	NoSubs
11	1	6	6	10	54.8	0.204	0.602	0.013	144.	222.	-14.1	0.0800	0.72	0.25	2.10	318.0	15.0	277.8	2.0	0	0.00	46.	1015.	2	NAD-SFC	NoSubs
11	1	6	6	11	84.4	0.213	0.804	0.013	223.	236.	-10.3	0.0800	0.72	0.22	2.10	325.0	15.0	279.2	2.0	0	0.00	44.	1015.	2	NAD-SFC	NoSubs
11	1	6	6	12	100.0	0.177	0.957	0.012	316.	179.	-5.0	0.0950	0.72	0.21	1.50	336.0	15.0	280.8	2.0	0	0.00	42.	1014.	2	NAD-SFC	NoSubs
11	1	6	6	13	101.0	0.177	1.028	0.012	389.	179.	-5.0	0.0950	0.72	0.21	1.50	351.0	15.0	281.8	2.0	0	0.00	42.	1013.	2	NAD-SFC	NoSubs
11	1	6	6	14	87.2	-9.000	-9.000	-9.000	457.	-999.	-99999.0	0.0471	0.72	0.22	0.00	0.0	15.0	282.2	2.0	0	0.00	43.	1012.	2	NAD-SFC	NoSubs
11	1	6	6	15	59.3	0.250	0.935	0.011	498.	299.	-23.7	0.0960	0.72	0.25	2.60	12.0	15.0	282.1	2.0	0	0.00	46.	1012.	2	NAD-SFC	NoSubs
11	1	6	6	16	19.5	0.231	0.651	0.011	510.	266.	-56.7	0.0960	0.72	0.33	2.60	12.0	15.0	281.4	2.0	0	0.00	53.	1012.	2	NAD-SFC	NoSubs
11	1	6	6	17	-8.7	0.140	-9.000	-9.000	-999.	128.	28.2	0.0650	0.72	0.57	2.10	32.0	15.0	280.8	2.0	0	0.00	55.	1011.	2	NAD-SFC	NoSubs
11	1	6	6	18	-5.0	0.102	-9.000	-9.000	-999.	78.	18.9	0.0650	0.72	1.00	1.50	45.0	15.0	280.2	2.0	0	0.00	56.	1011.	2	NAD-SFC	NoSubs
11	1	6	6	19	-1.3	0.075	-9.000	-9.000	-999.	50.	29.8	0.0960	0.72	1.00	0.50	18.0	15.0	279.8	2.0	0	0.00	58.	1011.	2	NAD-SFC	NoSubs
11	1	6	6	20	-3.0	0.087	-9.000	-9.000	-999.	62.	20.0	0.0950	0.72	1.00	1.00	351.0	15.0	279.2	2.0	0	0.00	60.	1011.	2	NAD-SFC	NoSubs
11	1	6	6	21	-5.6	0.109	-9.000	-9.000	-999.	86.	20.6	0.0950	0.72	1.00	1.50	352.0	15.0	278.8	2.0	0	0.00	62.	1011.	2	NAD-SFC	NoSubs
11	1	6	6	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	278.2	2.0	0	0.00	64.	1011.	2	NAD-SFC	NoSubs
11	1	6	6	23	-5.6	0.109	-9.000	-9.000	-999.	86.	20.7	0.0960	0.72	1.00	1.50	2.0	15.0	277.6	2.0	0	0.00	66.	1011.	2	NAD-SFC	NoSubs
11	1	6	6	24	-5.6	0.109	-9.000	-9.000	-999.	86.	20.6	0.0950	0.72	1.00	1.50	346.0	15.0	277.1	2.0	0	0.00	68.	1011.	2	NAD-SFC	NoSubs
11	1	7	7	1	-5.3	0.105	-9.000	-9.000	-999.	82.	19.8	0.0800	0.72	1.00	1.50	328.0	15.0	276.8	2.0	0	0.00	69.	1011.	2	NAD-SFC	NoSubs
11	1	7	7	2	-5.3	0.105	-9.000	-9.000	-999.	82.	19.8	0.0800	0.72	1.00	1.50	323.0	15.0	276.4	2.0	0	0.00	70.	1011.	2	NAD-SFC	NoSubs
11	1	7	7	3	-5.3	0.105	-9.000	-9.000	-999.	82.	19.8	0.0800	0.72	1.00	1.50	320.0	15.0	276.1	2.0	0	0.00	71.	1010.	2	NAD-SFC	NoSubs
11	1	7	7	4	-5.3	0.105	-9.000	-9.000	-999.	82.	19.8	0.0800	0.72	1.00	1.50	325.0	15.0	275.9	2.0	0	0.00	71.	1010.	2	NAD-SFC	NoSubs
11	1	7	7	5	-2.9	0.086	-9.000	-9.000	-999.	60.	19.6	0.0800	0.72	1.00	1.00	313.0	15.0	275.8	2.0	0	0.00	71.	1010.	2	NAD-SFC	NoSubs
11	1	7	7	6	-2.5	0.080	-9.000	-9.000	-999.	54.	18.1	0.0420	0.72	1.00	1.00	286.0	15.0	275.8	2.0	0	0.00	70.	1010.	2	NAD-SFC	NoSubs
11	1	7	7	7	-2.2	0.074	-9.000	-9.000	-999.	48.	16.7	0.0200	0.72	1.00	1.00	269.0	15.0	276.0	2.0	0	0.00	68.	1010.	2	NAD-SFC	NoSubs
11	1	7	7	8	-2.0	0.071	-9.000	-9.000	-999.	46.	16.3	0.0200	0.72	0.62	1.00	254.0	15.0	276.2	2.0	0	0.00	66.	1010.	2	NAD-SFC	NoSubs
11	1	7	7	9	14.4	0.095	0.275	0.017	52.	70.	-5.4	0.0420	0.72	0.34	1.00	280.0	15.0	277.2	2.0	0	0.00	62.	1010.	2	NAD-SFC	NoSubs
11	1	7	7	10	55.3	0.205	0.586	0.012	131.	222.	-13.9	0.0800	0.72	0.25	2.10	314.0	15.0	279.5	2.0	0	0.00	53.	1009.	2	NAD-SFC	NoSubs
11	1	7	7	11	85.1	0.169	0.798	0.012	215.	166.	-5.1	0.0800	0.72	0.22	1.50	323.0	15.0	281.1	2.0	0	0.00	49.	1009.	2	NAD-SFC	NoSubs
11	1	7	7	12	100.9	0.172	0.956	0.010	311.	171.	-4.5	0.0800	0.72	0.21	1.50	322.0	15.0	282.8	2.0	0	0.00	44.	1008.	2	NAD-SFC	NoSubs
11	1	7	7	13	102.0	0.217	1.030	0.008	385.	242.	-9.0	0.0800	0.72	0.21	2.10	321.0	15.0	283.8	2.0	0	0.00	41.	1008.	2	NAD-SFC	NoSubs
11	1	7	7	14	88.4	0.250	1.045	0.007	464.	299.	-15.8	0.0800	0.72	0.22	2.60	326.0	15.0	284.4	2.0	0	0.00	40.	1007.	2	NAD-SFC	NoSubs
11	1	7	7	15	60.5	0.242	0.953	0.007	513.	286.	-21.1	0.0800	0.72	0.24	2.60	327.0	15.0	284.5	2.0	0	0.00	40.	1007.	2	NAD-SFC	NoSubs
11	1	7	7	16	20.8	0.195	0.674	0.007	528.	207.	-32.0	0.0950	0.72	0.33	2.10	335.0	15.0	284.2	2.0	0	0.00	45.	1007.	2	NAD-SFC	NoSubs
11	1	7	7	17	-4.6	0.103	-9.000	-9.000	-999.	83.	21.5	0.0800	0.72	0.56	1.50	324.0	15.0	283.4	2.0	0	0.00	49.	1007.	2	NAD-SFC	NoSubs
11	1	7	7	18	-5.3	0.105	-9.000	-9.000	-999.	82.	19.9	0.0800	0.72	1.00	1.50	314.0	15.0	282.2	2.0	0	0.00	53.	1008.	2	NAD-SFC	NoSubs
11	1	7	7	19	-2.5	0.079	-9.000	-9.000	-999.	54.	18.0	0.0420	0.72	1.00	1.00	291.0	15.0	281.0	2.0	0	0.00	58.	1008.	2	NAD-SFC	NoSubs
11	1	7	7	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	279.9	2.0	0	0.00	63.	1008.	2	NAD-SFC	NoSubs
11	1	7	7	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	278.8	2.0	0	0.00	68.	1008.	2	NAD-SFC	NoSubs
11	1	7	7	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	277.9	2.0	0	0.00	73.	1007.	2	NAD-SFC	NoSubs
11	1	7	7	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	277.1	2.0	0	0.00	77.	1007.	2	NAD-SFC	NoSubs
11	1	7	7	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	276.5	2.0	0	0.00	79.	1007.	2	NAD-SFC	NoSubs
11	1	8	8	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	276.0	2.0	0	0.00	81.	1007.	2	NAD-SFC	NoSubs
11	1	8	8	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	275.6	2.0	0	0.00	81.	1007.	2	NAD-SFC	NoSubs
11	1	8	8	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	275.2	2.0	0	0.00	81.	1008.	2	NAD-SFC	NoSubs
11	1	8	8	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	274.9	2.0	0	0.00	81.	1008.	2	NAD-SFC	NoSubs
11	1	8	8	5	-1.1	0.070	-9.000	-9.000	-999.	44.	27.9	0.0420	0.72	1.00	0.50	287.0	15.0	274.8	2.0	0	0.00	80.	1008.	2	NAD-SFC	NoSubs
11	1	8	8	6	-1.3	0.075	-9.000	-9.000	-999.	49.	29.6	0.0800	0.72	1.00	0.50	305.0	15.0	274.4	2.0	0	0.00	79.	1008.	2	NAD-SFC	NoSubs
11	1	8	8	7	-1.3	0.075	-9.000	-9.000	-999.	49.	29.6	0.0800	0.72	1.00	0.50	305.0	15.0	274.2	2.0	0	0.00	79.	1008.	2	NAD-SFC	NoSubs
11	1	8	8	8	-1.2	0.072	-9.000	-9.000	-999.	46.	28.6	0.0800	0.72	0.61	0.50	311.0	15.0	274.0	2.0	0	0.00	80.	1008.	2	NAD-SFC	NoSubs
11	1	8	8	9	14.3	0.067	0.271	0.014	50.	42.	-1.9	0.0800	0.72	0.34	0.50	320.0	15.0	275.8	2.0	0	0.00	74.	1008.	2	NAD-SFC	NoSubs
11	1	8	8	10	55.3	0.080	0.606	0.011	144.	54.	-1.0	0.0800	0.72	0.25	0.50	300.0	15.0	277.8	2.0	0	0.00	68.	1008.	2	NAD-SFC	NoSubs
11	1	8	8	11	85.2	-9.000	-9.000	-9.000	279.	-999.	-99999.0	0.0471	0.72	0.22	0.00	0.0	15.0	279.5	2.0	0	0.00	64.	1007.	2	NAD-SFC	NoSubs
11	1	8	8	12	101.0	0.086	1.049	0.011	410.	61.	-1.0	0.0800	0.72	0.21	0.50	307.0	15.0	281.1	2.0	0	0.00	59.	1006.	2	NAD-SFC	NoSubs
11	1	8	8	13	102.2	0.172	1.118	0.010	491.	171.	-4.5	0.0800	0.72	0.21	1.50	309.0	15.0	282.2	2.0	0	0.00	53.	1006.	2	NAD-SFC	NoSubs
11	1	8	8	14	88.7	0.169	1.109	0.010	552.	167.	-4.9	0.0800	0.72	0.21	1.50	324.0	15.0	283.1	2.0	0	0.00	51.	1005.	2	NAD-SFC	NoSubs
11	1	8	8	15	61.0	0.168	1.001	0.010	590.	165.	-6.9	0.0950	0.72	0.24	1.50	332.0	15.0	283.4	2.0	0	0.00	51.	1005.	2	NAD-SFC	NoSubs
11	1	8	8	16	21.4	0.152	0.711	0.009	603.	142.	-14.6	0.0950	0.72	0.32	1.50	349.0	15.0	283.2	2.0	0	0.00	55.	1004.	2	NAD-SFC	NoSubs
11	1	8	8	17	-4.8	0.107	-9.000	-9.000	-999.	84.	22.7	0.0960	0.72	0.56	1.50	8.0	15.0	282.5	2.0	0	0.00	59.	1004.	2	NAD-SFC	NoSubs
11	1	8	8	18	-1.2	0.072	-9.000	-9.000	-999.	47.	28.8	0.0650	0.72	1.00	0.50	30.0	15.0	281.4	2.0	0	0.00	64.	1004.	2	NAD-SFC	NoSubs
11	1	8	8	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	280.2	2.0	0	0.00	69.	1004.	2	NAD-SFC	NoSubs
11	1	8	8	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	279.2	2.0	0	0.00	75.	1004.	2	NAD-SFC	NoSubs
11	1	8	8	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	278.2	2.0	0	0.00	80.	1005.	2	NAD-SFC	NoSubs
11	1	8	8	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	277.6	2.0	0	0.00	84.	1005.	2	NAD-SFC	NoSubs
11	1	8	8	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	276.8	2.0	0	0.00	88.	1005.	2	NAD-SFC	NoSubs
11	1	8	8	24	-1.0	0.068	-9.000	-9.000	-999.	43.	27.1	0.0310	0.72	1.00	0.50	104.0	15.0	276.2	2.0	0	0.00	91.	1005.	2	NAD-SFC	NoSubs
11	1	9	9	1	-1.0	0.068	-9.000	-9.000	-999.	43.	27.1	0.0310	0.72	1.00	0.50	115.0	15.0	275.8	2.0	0	0.00	92.	1006.	2	NAD-SFC	NoSubs
11	1	9	9	2	-1.0	0.067	-9.000	-9.000	-999.	41.	26.6	0.0280	0.72	1.00	0.50	126.0	15.0	275.4	2.0	0	0.00	93.	1006.	3	NAD-SFC	NoSubs
11	1	9	9	3	-1.0	0.067	-9.000	-9.000	-999.	41.	26.6	0.0280	0.72	1.00	0.50	146.0	15.0	275.1	2.0	0	0.00	92.	1006.	3	NAD-SFC	NoSubs
11	1	9	9	4	-1.0	0.067	-9.000	-9.000	-999.	41.	26.5	0.0240	0.72	1.00	0.50	174.0	15.0	274.9	2.0	0	0.00	92.	1006.	2	NAD-SFC	NoSubs
11	1	9	9	5	-1.0	0.067	-9.000	-9.000	-999.	41.	26.5	0.0240	0.72	1.00	0.50	166.0	15.0	274.6	2.0	0	0.00	92.	1007.	2	NAD-SFC	NoSubs
11	1	9	9	6	-1.0	0.066	-9.000	-9.000	-999.	41.	26.3	0.0220	0.72	1.00	0.50	189.0	15.0	274.4	2.0	0	0.00	94.	1007.	2	NAD-SFC	NoSubs
11	1	9	9	7	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	273.9	2.0	0	0.00	96.	1007.	2	NAD-SFC	NoSubs
11	1	9	9	8	-1.2	0.072	-9.000	-9.000	-999.	46.	28.6	0.0800	0.72	0.61	0.50	304.0	15.0	273.8	2.0	0	0.00	98.	1007.	2	NAD-SFC	NoSubs
11	1	9	9	9	14.4	0.109	0.277	0.007	53.	87.	-8.1	0.0950	0.72	0.34	1.00	330.0	15.0	275.1	2.0	0	0.00	93.	1008.	2	NAD-SFC	NoSubs

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11  1  9   9 10   55.5  0.123  0.634  0.005   165.  103.     -3.0  0.0800  0.72  0.25  1.00  324.0  15.0  276.8  2.0   0  0.00   89.  1008.   2 NAD-SFC NoSubs
11  1  9   9 11   85.4  0.169  0.953  0.007   365.  166.     -5.1  0.0800  0.72  0.22  1.50  321.0  15.0  278.2  2.0   0  0.00   83.  1008.   2 NAD-SFC NoSubs
11  1  9   9 12  101.4  0.172  1.181  0.010   583.  171.     -4.5  0.0800  0.72  0.21  1.50  317.0  15.0  280.0  2.0   0  0.00   75.  1007.   2 NAD-SFC NoSubs
11  1  9   9 13  102.6  0.172  1.253  0.011   689.  171.     -4.5  0.0800  0.72  0.21  1.50  314.0  15.0  281.2  2.0   0  0.00   69.  1007.   2 NAD-SFC NoSubs
11  1  9   9 14   89.2  0.214  1.221  0.011   733.  238.     -9.9  0.0800  0.72  0.21  2.10  325.0  15.0  281.9  2.0   0  0.00   66.  1006.   2 NAD-SFC NoSubs
11  1  9   9 15   61.5  0.250  1.093  0.011   762.  300.    -22.8  0.0950  0.72  0.24  2.60  330.0  15.0  282.0  2.0   0  0.00   65.  1006.   2 NAD-SFC NoSubs
11  1  9   9 16   21.8  0.268  0.777  0.011   772.  333.    -79.5  0.0950  0.72  0.32  3.10  343.0  15.0  281.5  2.0   0  0.00   69.  1006.   2 NAD-SFC NoSubs
11  1  9   9 17  -19.9  0.230 -9.000 -9.000  -999.  265.     55.0  0.0950  0.72  0.55  3.10  351.0  15.0  280.4  2.0   0  0.00   73.  1006.   2 NAD-SFC NoSubs
11  1  9   9 18  -16.8  0.189 -9.000 -9.000  -999.  198.     36.2  0.0960  0.72  1.00  2.60   14.0  15.0  279.5  2.0   0  0.00   76.  1007.   2 NAD-SFC NoSubs
11  1  9   9 19   -3.0  0.087 -9.000 -9.000  -999.   68.     20.0  0.0960  0.72  1.00  1.00   26.0  15.0  279.0  2.0   0  0.00   78.  1007.   2 NAD-SFC NoSubs
11  1  9   9 20 -999.0 -9.000 -9.000 -9.000  -999.  -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  278.4  2.0   0  0.00   81.  1008.   2 NAD-SFC NoSubs
11  1  9   9 21 -999.0 -9.000 -9.000 -9.000  -999.  -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  277.9  2.0   0  0.00   84.  1009.   2 NAD-SFC NoSubs
11  1  9   9 22 -999.0 -9.000 -9.000 -9.000  -999.  -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  277.4  2.0   0  0.00   87.  1009.   2 NAD-SFC NoSubs
11  1  9   9 23 -999.0 -9.000 -9.000 -9.000  -999.  -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  277.0  2.0   0  0.00   89.  1010.   2 NAD-SFC NoSubs
11  1  9   9 24 -999.0 -9.000 -9.000 -9.000  -999.  -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  276.6  2.0   0  0.00   91.  1010.   2 NAD-SFC NoSubs
11  1 10  10  1   -1.1  0.070 -9.000 -9.000  -999.   44.     27.8  0.0420  0.72  1.00  0.50  291.0  15.0  276.4  2.0   0  0.00   90.  1010.   2 NAD-SFC NoSubs
11  1 10  10  2   -2.5  0.080 -9.000 -9.000  -999.   54.     18.1  0.0420  0.72  1.00  1.00  293.0  15.0  276.2  2.0   0  0.00   89.  1010.   2 NAD-SFC NoSubs
11  1 10  10  3   -4.5  0.095 -9.000 -9.000  -999.   71.     17.3  0.0420  0.72  1.00  1.50  290.0  15.0  275.5  2.0   0  0.00   90.  1011.   2 NAD-SFC NoSubs
11  1 10  10  4  -10.3  0.145 -9.000 -9.000  -999.  132.     26.5  0.0800  0.72  1.00  2.10  305.0  15.0  274.5  2.0   0  0.00   90.  1011.   2 NAD-SFC NoSubs
11  1 10  10  5  -13.3  0.161 -9.000 -9.000  -999.  154.     28.2  0.0420  0.72  1.00  2.60  298.0  15.0  274.0  2.0   0  0.00   87.  1012.   2 NAD-SFC NoSubs
11  1 10  10  6  -16.1  0.182 -9.000 -9.000  -999.  186.     33.8  0.0800  0.72  1.00  2.60  305.0  15.0  273.8  2.0   0  0.00   85.  1012.   2 NAD-SFC NoSubs
11  1 10  10  7  -16.1  0.182 -9.000 -9.000  -999.  186.     33.8  0.0800  0.72  1.00  2.60  304.0  15.0  273.2  2.0   0  0.00   84.  1013.   2 NAD-SFC NoSubs
11  1 10  10  8   -8.2  0.128 -9.000 -9.000  -999.  111.     23.3  0.0420  0.72  0.61  2.10  294.0  15.0  273.0  2.0   0  0.00   82.  1013.   2 NAD-SFC NoSubs
11  1 10  10  9   14.6  0.220  0.294  0.005    62.   247.    -65.5  0.0800  0.72  0.34  2.60  326.0  15.0  274.6  2.0   0  0.00   67.  1013.   2 NAD-SFC NoSubs
11  1 10  10 10   55.7  0.166  0.672  0.006   197.  163.     -7.4  0.0950  0.72  0.25  1.50  332.0  15.0  275.9  2.0   0  0.00   60.  1013.   2 NAD-SFC NoSubs
11  1 10  10 11   85.7  0.129  0.935  0.005   345.  112.     -2.3  0.0800  0.72  0.22  1.00  311.0  15.0  277.6  2.0   0  0.00   53.  1013.   2 NAD-SFC NoSubs
11  1 10  10 12  101.7  0.132  1.162  0.007   558.  115.     -2.0  0.0800  0.72  0.21  1.00  303.0  15.0  278.9  2.0   0  0.00   48.  1012.   2 NAD-SFC NoSubs
11  1 10  10 13  103.1  0.132  1.262  0.008   704.  115.     -2.0  0.0800  0.72  0.20  1.00  305.0  15.0  279.9  2.0   0  0.00   46.  1011.   2 NAD-SFC NoSubs
11  1 10  10 14   89.7  0.130  1.244  0.008   776.  113.     -2.2  0.0800  0.72  0.21  1.00  316.0  15.0  280.6  2.0   0  0.00   45.  1011.   2 NAD-SFC NoSubs
11  1 10  10 15   62.1  0.168  1.122  0.009   822.  165.     -6.9  0.0950  0.72  0.24  1.50  336.0  15.0  281.0  2.0   0  0.00   44.  1011.   2 NAD-SFC NoSubs
11  1 10  10 16   22.7  0.232  0.809  0.009   840.  269.    -49.8  0.0950  0.72  0.32  2.60  348.0  15.0  282.2  2.0   0  0.00   41.  1010.   2 NAD-SFC NoSubs
11  1 10  10 17 -999.0 -9.000 -9.000 -9.000  -999.  -999. -99999.0  0.0471  0.72  0.55  0.00    0.0  15.0  281.6  2.0   0  0.00   45.  1010.   2 NAD-SFC NoSubs
11  1 10  10 18 -999.0 -9.000 -9.000 -9.000  -999.  -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  280.8  2.0   0  0.00   49.  1011.   2 NAD-SFC NoSubs
11  1 10  10 19   -3.0  0.087 -9.000 -9.000  -999.   62.     20.0  0.0950  0.72  1.00  1.00  353.0  15.0  280.1  2.0   0  0.00   52.  1011.   2 NAD-SFC NoSubs
11  1 10  10 20   -1.2  0.074 -9.000 -9.000  -999.   48.     29.4  0.0800  0.72  1.00  0.50  329.0  15.0  279.5  2.0   0  0.00   56.  1012.   2 NAD-SFC NoSubs
11  1 10  10 21   -1.2  0.074 -9.000 -9.000  -999.   48.     29.4  0.0800  0.72  1.00  0.50  325.0  15.0  279.2  2.0   0  0.00   59.  1012.   2 NAD-SFC NoSubs
11  1 10  10 22   -1.3  0.075 -9.000 -9.000  -999.   50.     29.9  0.0960  0.72  1.00  0.50    2.0  15.0  279.2  2.0   0  0.00   60.  1013.   2 NAD-SFC NoSubs
11  1 10  10 23   -1.3  0.075 -9.000 -9.000  -999.   50.     29.8  0.0950  0.72  1.00  0.50  348.0  15.0  279.2  2.0   0  0.00   61.  1013.   2 NAD-SFC NoSubs
11  1 10  10 24   -3.0  0.087 -9.000 -9.000  -999.   62.     20.0  0.0950  0.72  1.00  1.00  351.0  15.0  279.2  2.0   0  0.00   61.  1013.   2 NAD-SFC NoSubs
11  1 11  11  1   -5.6  0.109 -9.000 -9.000  -999.   86.     20.7  0.0950  0.72  1.00  1.50  360.0  15.0  279.2  2.0   0  0.00   61.  1013.   2 NAD-SFC NoSubs
11  1 11  11  2   -5.6  0.109 -9.000 -9.000  -999.   86.     20.7  0.0960  0.72  1.00  1.50   14.0  15.0  279.4  2.0   0  0.00   61.  1013.   2 NAD-SFC NoSubs
11  1 11  11  3  -10.8  0.150 -9.000 -9.000  -999.  140.     28.2  0.0960  0.72  1.00  2.10    3.0  15.0  279.4  2.0   0  0.00   61.  1014.   2 NAD-SFC NoSubs
11  1 11  11  4  -10.8  0.150 -9.000 -9.000  -999.  139.     28.2  0.0950  0.72  1.00  2.10  344.0  15.0  279.4  2.0   0  0.00   60.  1014.   2 NAD-SFC NoSubs
11  1 11  11  5  -10.8  0.150 -9.000 -9.000  -999.  139.     28.2  0.0950  0.72  1.00  2.10  333.0  15.0  279.4  2.0   0  0.00   59.  1014.   2 NAD-SFC NoSubs
11  1 11  11  6   -5.3  0.105 -9.000 -9.000  -999.   82.     19.8  0.0800  0.72  1.00  1.50  324.0  15.0  279.4  2.0   0  0.00   59.  1014.   2 NAD-SFC NoSubs
11  1 11  11  7   -1.2  0.073 -9.000 -9.000  -999.   48.     29.1  0.0800  0.72  1.00  0.50  312.0  15.0  279.4  2.0   0  0.00   58.  1014.   3 NAD-SFC NoSubs
11  1 11  11  8    7.9 -9.000 -9.000 -9.000  -999.  -999. -99999.0  0.0471  0.72  0.61  0.00    0.0  15.0  279.4  2.0   0  0.00   59.  1014.   3 NAD-SFC NoSubs
11  1 11  11  9   17.1  0.058  0.384  0.010   120.   33.     -1.0  0.0310  0.72  0.34  0.50  102.0  15.0  279.5  2.0   0  0.00   60.  1014.   3 NAD-SFC NoSubs
11  1 11  11 10   58.0 -9.000 -9.000 -9.000   211.  -999. -99999.0  0.0471  0.72  0.25  0.00    0.0  15.0  280.4  2.0   0  0.00   53.  1014.   3 NAD-SFC NoSubs
11  1 11  11 11   87.8  0.085  0.940  0.007   342.   59.     -1.0  0.0800  0.72  0.22  0.50  327.0  15.0  281.5  2.0   0  0.00   44.  1014.   3 NAD-SFC NoSubs
11  1 11  11 12  103.7  0.132  1.104  0.007   469.  115.     -2.0  0.0800  0.72  0.21  1.00  310.0  15.0  282.1  2.0   0  0.00   45.  1014.   3 NAD-SFC NoSubs
11  1 11  11 13  105.0  0.132  1.191  0.008   581.  115.     -2.0  0.0800  0.72  0.20  1.00  325.0  15.0  282.8  2.0   0  0.00   45.  1013.   3 NAD-SFC NoSubs
11  1 11  11 14   91.8  0.175  1.190  0.008   664.  176.     -5.3  0.0950  0.72  0.21  1.50  334.0  15.0  283.1  2.0   0  0.00   45.  1013.   3 NAD-SFC NoSubs
11  1 11  11 15   64.7  0.169  1.087  0.008   718.  166.     -6.7  0.0950  0.72  0.24  1.50  337.0  15.0  283.2  2.0   0  0.00   47.  1013.   4 NAD-SFC NoSubs
11  1 11  11 16   26.2  0.116  0.813  0.009   739.   96.     -5.4  0.0950  0.72  0.32  1.00  341.0  15.0  283.1  2.0   0  0.00   51.  1012.   4 NAD-SFC NoSubs
11  1 11  11 17   -0.9  0.063 -9.000 -9.000  -999.   38.     25.7  0.0950  0.72  0.54  0.50  353.0  15.0  282.8  2.0   0  0.00   53.  1012.   4 NAD-SFC NoSubs
11  1 11  11 18 -999.0 -9.000 -9.000 -9.000  -999.  -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.4  2.0   0  0.00   56.  1013.   4 NAD-SFC NoSubs
11  1 11  11 19 -999.0 -9.000 -9.000 -9.000  -999.  -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  281.8  2.0   0  0.00   60.  1013.   3 NAD-SFC NoSubs
11  1 11  11 20 -999.0 -9.000 -9.000 -9.000  -999.  -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  281.1  2.0   0  0.00   63.  1014.   3 NAD-SFC NoSubs
11  1 11  11 21   -1.3  0.074 -9.000 -9.000  -999.   49.     29.5  0.0950  0.72  1.00  0.50  336.0  15.0  280.5  2.0   0  0.00   66.  1014.   3 NAD-SFC NoSubs
11  1 11  11 22   -2.9  0.086 -9.000 -9.000  -999.   61.     19.9  0.0950  0.72  1.00  1.00  336.0  15.0  280.1  2.0   0  0.00   67.  1015.   3 NAD-SFC NoSubs
11  1 11  11 23   -2.9  0.086 -9.000 -9.000  -999.   61.     19.9  0.0950  0.72  1.00  1.00  351.0  15.0  279.8  2.0   0  0.00   68.  1016.   3 NAD-SFC NoSubs
11  1 11  11 24   -2.8  0.085 -9.000 -9.000  -999.   60.     19.8  0.0950  0.72  1.00  1.00  339.0  15.0  279.2  2.0   0  0.00   70.  1016.   4 NAD-SFC NoSubs
11  1 12  12  1   -1.0  0.068 -9.000 -9.000  -999.   42.     27.1  0.0420  0.72  1.00  0.50  288.0  15.0  279.0  2.0   0  0.00   71.  1016.   4 NAD-SFC NoSubs
11  1 12  12  2   -0.9  0.064 -9.000 -9.000  -999.   39.     25.6  0.0220  0.72  1.00  0.50  239.0  15.0  278.5  2.0   0  0.00   73.  1017.   4 NAD-SFC NoSubs
11  1 12  12  3   -2.1  0.072 -9.000 -9.000  -999.   47.     16.4  0.0200  0.72  1.00  1.00  244.0  15.0  278.2  2.0   0  0.00   74.  1017.   4 NAD-SFC NoSubs
11  1 12  12  4 -999.0 -9.000 -9.000 -9.000  -999.  -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  278.0  2.0   0  0.00   74.  1017.   3 NAD-SFC NoSubs
11  1 12  12  5   -1.0  0.067 -9.000 -9.000  -999.   42.     26.8  0.0310  0.72  1.00  0.50   97.0  15.0  277.8  2.0   0  0.00   76.  1017.   3 NAD-SFC NoSubs
11  1 12  12  6 -999.0 -9.000 -9.000 -9.000  -999.  -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  277.2  2.0   0  0.00   78.  1017.   3 NAD-SFC NoSubs
11  1 12  12  7   -1.1  0.069 -9.000 -9.000  -999.   43.     27.4  0.0400  0.72  1.00  0.50   88.0  15.0  277.0  2.0   0  0.00   81.  1018.   3 NAD-SFC NoSubs
11  1 12  12  8    8.1 -9.000 -9.000 -9.000  -999.  -999. -99999.0  0.0471  0.72  0.61  0.00    0.0  15.0  276.9  2.0   0  0.00   82.  1018.   3 NAD-SFC NoSubs
11  1 12  12  9   17.2 -9.000 -9.000 -9.000    71.  -999. -99999.0  0.0471  0.72  0.34  0.00    0.0  15.0  278.8  2.0   0  0.00   76.  1018.   3 NAD-SFC NoSubs
11  1 12  12 10   58.6  0.145  0.655  0.010   174.   132.     -4.7  0.0420  0.72  0.25  1.50  291.0  15.0  282.0  2.0   0  0.00   55.  1019.   3 NAD-SFC NoSubs
11  1 12  12 11   88.7  0.151  0.896  0.009   295.   141.     -3.5  0.0420  0.72  0.22  1.50  298.0  15.0  283.8  2.0   0  0.00   53.  1018.   3 NAD-SFC NoSubs
11  1 12  12 12  105.0  0.172  1.053  0.008   403.   172.     -4.4  0.0800  0.72  0.20  1.50  309.0  15.0  285.4  2.0   0  0.00   51.  1017.   3 NAD-SFC NoSubs
11  1 12  12 13  106.7  0.218  1.157  0.008   526.   244.     -8.8  0.0800  0.72  0.20  2.10  318.0  15.0  286.8  2.0   0  0.00   49.  1017.   3 NAD-SFC NoSubs
11  1 12  12 14   93.7  0.170  1.167  0.007   615.   169.     -4.8  0.0800  0.72  0.21  1.50  318.0  15.0  287.4  2.0   0  0.00   49.  1016.   3 NAD-SFC NoSubs
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11  1 12  12 15   66.5  0.164  1.072  0.007  670.  159.     -6.0  0.0800  0.72  0.24  1.50  321.0  15.0  287.8  2.0  0  0.00  49.  1015.  3 NAD-SFC NoSubs
11  1 12  12 16   25.7  0.149  0.788  0.007  689.  138.    -11.7  0.0800  0.72  0.31  1.50  319.0  15.0  287.6  2.0  0  0.00  52.  1015.  2 NAD-SFC NoSubs
11  1 12  12 17   -0.9  0.064 -9.000 -9.000 -999.   43.     26.3  0.0950  0.72  0.54  0.50  336.0  15.0  286.8  2.0  0  0.00  57.  1015.  2 NAD-SFC NoSubs
11  1 12  12 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  285.6  2.0  0  0.00  63.  1014.  2 NAD-SFC NoSubs
11  1 12  12 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  284.2  2.0  0  0.00  69.  1014.  2 NAD-SFC NoSubs
11  1 12  12 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  283.2  2.0  0  0.00  75.  1014.  2 NAD-SFC NoSubs
11  1 12  12 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.2  2.0  0  0.00  80.  1014.  2 NAD-SFC NoSubs
11  1 12  12 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  281.4  2.0  0  0.00  84.  1015.  2 NAD-SFC NoSubs
11  1 12  12 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  280.8  2.0  0  0.00  87.  1015.  2 NAD-SFC NoSubs
11  1 12  12 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  280.2  2.0  0  0.00  90.  1015.  2 NAD-SFC NoSubs
11  1 13  13  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  279.8  2.0  0  0.00  92.  1015.  2 NAD-SFC NoSubs
11  1 13  13  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  279.2  2.0  0  0.00  94.  1015.  2 NAD-SFC NoSubs
11  1 13  13  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  278.9  2.0  0  0.00  96.  1015.  2 NAD-SFC NoSubs
11  1 13  13  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  278.5  2.0  0  0.00  97.  1015.  2 NAD-SFC NoSubs
11  1 13  13  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  277.8  2.0  0  0.00  99.  1015.  2 NAD-SFC NoSubs
11  1 13  13  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  276.2  2.0  0  0.00 100.  1016.  2 NAD-SFC NoSubs
11  1 13  13  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  275.2  2.0  0  0.00 100.  1016.  2 NAD-SFC NoSubs
11  1 13  13  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.61  0.00    0.0  15.0  274.8  2.0  0  0.00 100.  1016.  2 NAD-SFC NoSubs
11  1 13  13  9   15.4 -9.000 -9.000 -9.000   48. -999. -99999.0  0.0471  0.72  0.34  0.00    0.0  15.0  275.2  2.0  0  0.00 100.  1017.  2 NAD-SFC NoSubs
11  1 13  13 10   57.0 -9.000 -9.000 -9.000  153. -999. -99999.0  0.0471  0.72  0.25  0.00    0.0  15.0  277.1  2.0  0  0.00 100.  1017.  2 NAD-SFC NoSubs
11  1 13  13 11   88.0 -9.000 -9.000 -9.000  316. -999. -99999.0  0.0471  0.72  0.22  0.00    0.0  15.0  282.2  2.0  0  0.00  76.  1017.  2 NAD-SFC NoSubs
11  1 13  13 12  104.6 -9.000 -9.000 -9.000  440. -999. -99999.0  0.0471  0.72  0.20  0.00    0.0  15.0  284.5  2.0  0  0.00  67.  1016.  2 NAD-SFC NoSubs
11  1 13  13 13  106.3  0.090  1.156  0.010  527.   65.     -1.0  0.0950  0.72  0.20  0.50  330.0  15.0  285.6  2.0  0  0.00  61.  1015.  2 NAD-SFC NoSubs
11  1 13  13 14   93.2  0.170  1.151  0.009  592.  168.     -4.8  0.0800  0.72  0.21  1.50  327.0  15.0  286.2  2.0  0  0.00  56.  1015.  2 NAD-SFC NoSubs
11  1 13  13 15   65.8  0.169  1.049  0.009  634.  167.     -6.6  0.0950  0.72  0.24  1.50  351.0  15.0  286.4  2.0  0  0.00  55.  1015.  2 NAD-SFC NoSubs
11  1 13  13 16   26.1  0.154  0.777  0.009  650.  146.    -12.8  0.0960  0.72  0.31  1.50   16.0  15.0  285.9  2.0  0  0.00  60.  1015.  2 NAD-SFC NoSubs
11  1 13  13 17   -4.0  0.099 -9.000 -9.000 -999.   75.     21.7  0.0650  0.72  0.53  1.50   57.0  15.0  285.1  2.0  0  0.00  64.  1015.  2 NAD-SFC NoSubs
11  1 13  13 18   -2.3  0.076 -9.000 -9.000 -999.   51.     17.4  0.0310  0.72  1.00  1.00  104.0  15.0  284.0  2.0  0  0.00  69.  1015.  2 NAD-SFC NoSubs
11  1 13  13 19   -4.0  0.089 -9.000 -9.000 -999.   64.     16.2  0.0280  0.72  1.00  1.50  130.0  15.0  283.2  2.0  0  0.00  74.  1015.  3 NAD-SFC NoSubs
11  1 13  13 20   -4.0  0.089 -9.000 -9.000 -999.   64.     16.2  0.0280  0.72  1.00  1.50  146.0  15.0  282.6  2.0  0  0.00  78.  1015.  3 NAD-SFC NoSubs
11  1 13  13 21   -4.0  0.089 -9.000 -9.000 -999.   64.     16.2  0.0280  0.72  1.00  1.50  138.0  15.0  282.0  2.0  0  0.00  81.  1015.  3 NAD-SFC NoSubs
11  1 13  13 22   -2.3  0.076 -9.000 -9.000 -999.   50.     17.3  0.0310  0.72  1.00  1.00  111.0  15.0  281.4  2.0  0  0.00  85.  1015.  3 NAD-SFC NoSubs
11  1 13  13 23   -1.0  0.067 -9.000 -9.000 -999.   41.     26.7  0.0310  0.72  1.00  0.50  100.0  15.0  280.6  2.0  0  0.00  89.  1015.  3 NAD-SFC NoSubs
11  1 13  13 24   -2.4  0.077 -9.000 -9.000 -999.   51.     17.4  0.0310  0.72  1.00  1.00   98.0  15.0  279.9  2.0  0  0.00  92.  1015.  2 NAD-SFC NoSubs
11  1 14  14  1   -2.4  0.077 -9.000 -9.000 -999.   51.     17.4  0.0310  0.72  1.00  1.00  114.0  15.0  279.6  2.0  0  0.00  91.  1015.  2 NAD-SFC NoSubs
11  1 14  14  2   -1.0  0.068 -9.000 -9.000 -999.   42.     27.0  0.0310  0.72  1.00  0.50   93.0  15.0  279.4  2.0  0  0.00  91.  1015.  2 NAD-SFC NoSubs
11  1 14  14  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  279.0  2.0  0  0.00  91.  1015.  2 NAD-SFC NoSubs
11  1 14  14  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  278.6  2.0  0  0.00  91.  1015.  2 NAD-SFC NoSubs
11  1 14  14  5   -1.0  0.067 -9.000 -9.000 -999.   42.     26.8  0.0280  0.72  1.00  0.50  122.0  15.0  278.2  2.0  0  0.00  91.  1015.  2 NAD-SFC NoSubs
11  1 14  14  6   -1.0  0.067 -9.000 -9.000 -999.   42.     26.8  0.0280  0.72  1.00  0.50  136.0  15.0  278.2  2.0  0  0.00  91.  1015.  2 NAD-SFC NoSubs
11  1 14  14  7   -1.0  0.067 -9.000 -9.000 -999.   42.     26.8  0.0280  0.72  1.00  0.50  142.0  15.0  278.1  2.0  0  0.00  92.  1015.  2 NAD-SFC NoSubs
11  1 14  14  8   -0.9  0.063 -9.000 -9.000 -999.   38.     25.3  0.0240  0.72  0.61  0.50  164.0  15.0  278.1  2.0  0  0.00  93.  1015.  2 NAD-SFC NoSubs
11  1 14  14  9   16.4  0.054  0.276  0.012   46.   30.     -1.0  0.0220  0.72  0.34  0.50  230.0  15.0  280.1  2.0  0  0.00  85.  1015.  2 NAD-SFC NoSubs
11  1 14  14 10   58.5  0.110  0.621  0.008  148.   88.     -2.1  0.0420  0.72  0.25  1.00  280.0  15.0  283.0  2.0  0  0.00  77.  1015.  2 NAD-SFC NoSubs
11  1 14  14 11   89.1  0.085  0.920  0.008  316.   59.     -1.0  0.0800  0.72  0.21  0.50  308.0  15.0  284.9  2.0  0  0.00  72.  1015.  2 NAD-SFC NoSubs
11  1 14  14 12  105.8  0.132  1.105  0.009  461.  116.     -2.0  0.0800  0.72  0.20  1.00  307.0  15.0  286.6  2.0  0  0.00  66.  1015.  2 NAD-SFC NoSubs
11  1 14  14 13  107.6  0.173  1.194  0.010  572.  173.     -4.3  0.0800  0.72  0.20  1.50  313.0  15.0  287.6  2.0  0  0.00  63.  1014.  2 NAD-SFC NoSubs
11  1 14  14 14   94.6  0.170  1.196  0.010  655.  169.     -4.7  0.0800  0.72  0.21  1.50  311.0  15.0  288.2  2.0  0  0.00  62.  1014.  2 NAD-SFC NoSubs
11  1 14  14 15   67.4  0.208  1.091  0.010  697.  228.    -12.1  0.0800  0.72  0.24  2.10  317.0  15.0  288.6  2.0  0  0.00  60.  1014.  2 NAD-SFC NoSubs
11  1 14  14 16   27.8  0.151  0.818  0.010  713.  141.    -11.1  0.0800  0.72  0.31  1.50  326.0  15.0  288.6  2.0  0  0.00  62.  1014.  2 NAD-SFC NoSubs
11  1 14  14 17   -2.1  0.077 -9.000 -9.000 -999.   53.     19.4  0.0960  0.72  0.52  1.00   22.0  15.0  287.9  2.0  0  0.00  65.  1014.  2 NAD-SFC NoSubs
11  1 14  14 18   -1.2  0.072 -9.000 -9.000 -999.   46.     28.6  0.0650  0.72  1.00  0.50   36.0  15.0  286.8  2.0  0  0.00  70.  1014.  2 NAD-SFC NoSubs
11  1 14  14 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  285.5  2.0  0  0.00  76.  1013.  2 NAD-SFC NoSubs
11  1 14  14 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  284.6  2.0  0  0.00  81.  1013.  2 NAD-SFC NoSubs
11  1 14  14 21   -1.2  0.072 -9.000 -9.000 -999.   46.     28.7  0.0650  0.72  1.00  0.50   36.0  15.0  283.8  2.0  0  0.00  85.  1013.  2 NAD-SFC NoSubs
11  1 14  14 22   -1.2  0.072 -9.000 -9.000 -999.   46.     28.7  0.0650  0.72  1.00  0.50   47.0  15.0  283.1  2.0  0  0.00  88.  1013.  2 NAD-SFC NoSubs
11  1 14  14 23   -2.7  0.083 -9.000 -9.000 -999.   57.     19.0  0.0650  0.72  1.00  1.00   57.0  15.0  282.5  2.0  0  0.00  90.  1013.  2 NAD-SFC NoSubs
11  1 14  14 24   -1.2  0.072 -9.000 -9.000 -999.   47.     28.7  0.0650  0.72  1.00  0.50   40.0  15.0  282.0  2.0  0  0.00  92.  1013.  2 NAD-SFC NoSubs
11  1 15  15  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  281.8  2.0  0  0.00  92.  1013.  2 NAD-SFC NoSubs
11  1 15  15  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  281.4  2.0  0  0.00  92.  1013.  2 NAD-SFC NoSubs
11  1 15  15  3   -1.3  0.075 -9.000 -9.000 -999.   49.     29.8  0.0950  0.72  1.00  0.50  348.0  15.0  281.2  2.0  0  0.00  91.  1013.  2 NAD-SFC NoSubs
11  1 15  15  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  281.1  2.0  0  0.00  90.  1013.  2 NAD-SFC NoSubs
11  1 15  15  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  281.0  2.0  0  0.00  90.  1013.  2 NAD-SFC NoSubs
11  1 15  15  6   -1.0  0.066 -9.000 -9.000 -999.   40.     26.1  0.0220  0.72  1.00  0.50  180.0  15.0  280.6  2.0  0  0.00  91.  1013.  2 NAD-SFC NoSubs
11  1 15  15  7   -2.2  0.074 -9.000 -9.000 -999.   49.     16.8  0.0220  0.72  1.00  1.00  189.0  15.0  280.4  2.0  0  0.00  92.  1013.  2 NAD-SFC NoSubs
11  1 15  15  8   -2.0  0.071 -9.000 -9.000 -999.   46.     16.3  0.0220  0.72  0.60  1.00  202.0  15.0  280.5  2.0  0  0.00  91.  1013.  2 NAD-SFC NoSubs
11  1 15  15  9   17.0  0.055  0.288  0.015   51.   31.     -1.0  0.0220  0.72  0.34  0.50  217.0  15.0  281.2  2.0  0  0.00  87.  1013.  2 NAD-SFC NoSubs
11  1 15  15 10   59.3  0.129  0.627  0.011  150.  112.     -3.3  0.0200  0.72  0.25  1.50  267.0  15.0  284.4  2.0  0  0.00  73.  1013.  2 NAD-SFC NoSubs
11  1 15  15 11   90.1  0.116  0.883  0.011  276.   95.     -1.6  0.0420  0.72  0.21  1.00  282.0  15.0  286.2  2.0  0  0.00  68.  1012.  2 NAD-SFC NoSubs
11  1 15  15 12  106.9  0.118  1.043  0.011  383.   98.     -1.4  0.0420  0.72  0.20  1.00  290.0  15.0  288.1  2.0  0  0.00  62.  1011.  2 NAD-SFC NoSubs
11  1 15  15 13  109.0  0.133  1.141  0.011  491.  116.     -1.9  0.0800  0.72  0.20  1.00  304.0  15.0  289.6  2.0  0  0.00  56.  1010.  2 NAD-SFC NoSubs
11  1 15  15 14   96.2  0.171  1.151  0.011  572.  169.     -4.7  0.0800  0.72  0.21  1.50  320.0  15.0  290.4  2.0  0  0.00  54.  1010.  2 NAD-SFC NoSubs
11  1 15  15 15   68.9  0.170  1.061  0.011  623.  168.     -6.4  0.0950  0.72  0.24  1.50  333.0  15.0  290.6  2.0  0  0.00  54.  1009.  2 NAD-SFC NoSubs
11  1 15  15 16   29.9  0.156  0.813  0.011  646.  148.    -11.5  0.0950  0.72  0.31  1.50  336.0  15.0  292.2  2.0  0  0.00  56.  1008.  2 NAD-SFC NoSubs
11  1 15  15 17   -0.8  0.060 -9.000 -9.000 -999.   42.     25.0  0.0950  0.72  0.52  0.50  343.0  15.0  291.6  2.0  0  0.00  59.  1008.  2 NAD-SFC NoSubs
11  1 15  15 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  290.5  2.0  0  0.00  64.  1008.  2 NAD-SFC NoSubs
11  1 15  15 19   -1.0  0.065 -9.000 -9.000 -999.   40.     26.0  0.0240  0.72  1.00  0.50  151.0  15.0  289.2  2.0  0  0.00  70.  1009.  2 NAD-SFC NoSubs
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11  1 15  15 20   -2.2  0.074 -9.000 -9.000 -999.   48.     16.8  0.0240  0.72  1.00  1.00 162.0  15.0 288.4  2.0   0  0.00   75. 1009.    2 NAD-SFC NoSubs
11  1 15  15 21   -3.9  0.088 -9.000 -9.000 -999.   62.     15.7  0.0240  0.72  1.00  1.50 154.0  15.0 287.6  2.0   0  0.00   78. 1009.    2 NAD-SFC NoSubs
11  1 15  15 22   -2.3  0.075 -9.000 -9.000 -999.   50.     17.1  0.0280  0.72  1.00  1.00 133.0  15.0 287.0  2.0   0  0.00   81. 1009.    2 NAD-SFC NoSubs
11  1 15  15 23   -2.3  0.076 -9.000 -9.000 -999.   51.     17.4  0.0310  0.72  1.00  1.00 109.0  15.0 286.4  2.0   0  0.00   83. 1009.    2 NAD-SFC NoSubs
11  1 15  15 24   -1.0  0.067 -9.000 -9.000 -999.   42.     26.7  0.0310  0.72  1.00  0.50 100.0  15.0 285.9  2.0   0  0.00   84. 1009.    2 NAD-SFC NoSubs
11  1 16  16  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 285.4  2.0   0  0.00   86. 1009.    2 NAD-SFC NoSubs
11  1 16  16  2   -1.1  0.069 -9.000 -9.000 -999.   43.     27.5  0.0420  0.72  1.00  0.50 289.0  15.0 285.1  2.0   0  0.00   86. 1009.    2 NAD-SFC NoSubs
11  1 16  16  3   -1.1  0.069 -9.000 -9.000 -999.   43.     27.5  0.0420  0.72  1.00  0.50 277.0  15.0 284.9  2.0   0  0.00   85. 1009.    2 NAD-SFC NoSubs
11  1 16  16  4   -1.1  0.069 -9.000 -9.000 -999.   43.     27.5  0.0420  0.72  1.00  0.50 279.0  15.0 284.8  2.0   0  0.00   85. 1009.    2 NAD-SFC NoSubs
11  1 16  16  5   -2.1  0.073 -9.000 -9.000 -999.   48.     16.6  0.0200  0.72  1.00  1.00 254.0  15.0 284.4  2.0   0  0.00   86. 1009.    2 NAD-SFC NoSubs
11  1 16  16  6   -2.2  0.074 -9.000 -9.000 -999.   48.     16.7  0.0220  0.72  1.00  1.00 232.0  15.0 284.2  2.0   0  0.00   85. 1009.    2 NAD-SFC NoSubs
11  1 16  16  7   -2.2  0.074 -9.000 -9.000 -999.   48.     16.7  0.0220  0.72  1.00  1.00 222.0  15.0 284.1  2.0   0  0.00   86. 1009.    2 NAD-SFC NoSubs
11  1 16  16  8   -0.9  0.062 -9.000 -9.000 -999.   37.     24.8  0.0220  0.72  0.60  0.50 208.0  15.0 284.0  2.0   0  0.00   86. 1010.    2 NAD-SFC NoSubs
11  1 16  16  9   18.4  0.061  0.320  0.013   64.   37.     -1.1  0.0420  0.72  0.33  0.50 292.0  15.0 285.8  2.0   0  0.00   78. 1010.    2 NAD-SFC NoSubs
11  1 16  16 10   60.7  0.072  0.663  0.011  173.   46.     -1.0  0.0420  0.72  0.25  0.50 287.0  15.0 287.8  2.0   0  0.00   71. 1010.    2 NAD-SFC NoSubs
11  1 16  16 11   91.7  0.075  0.928  0.011  314.   50.     -1.0  0.0420  0.72  0.21  0.50 281.0  15.0 289.6  2.0   0  0.00   65. 1010.    2 NAD-SFC NoSubs
11  1 16  16 12  108.6  0.133  1.090  0.011  429.  116.     -1.9  0.0800  0.72  0.20  1.00 302.0  15.0 291.1  2.0   0  0.00   59. 1009.    2 NAD-SFC NoSubs
11  1 16  16 13  110.5  0.219  1.163  0.011  512.  245.     -8.5  0.0800  0.72  0.20  2.10 312.0  15.0 291.5  2.0   0  0.00   59. 1009.    2 NAD-SFC NoSubs
11  1 16  16 14   98.3  0.288  1.163  0.010  576.  370.    -21.8  0.0800  0.72  0.21  3.10 320.0  15.0 291.4  2.0   0  0.00   62. 1008.    3 NAD-SFC NoSubs
11  1 16  16 15   71.2  0.289  1.069  0.010  618.  373.    -30.6  0.0950  0.72  0.23  3.10 331.0  15.0 291.2  2.0   0  0.00   66. 1008.    3 NAD-SFC NoSubs
11  1 16  16 16   31.8  0.274  0.826  0.010  635.  344.    -58.0  0.0950  0.72  0.30  3.10 335.0  15.0 290.9  2.0   0  0.00   71. 1008.    3 NAD-SFC NoSubs
11  1 16  16 17  -13.6  0.232 -9.000 -9.000 -999.  269.     82.6  0.0950  0.72  0.51  3.10 336.0  15.0 290.1  2.0   0  0.00   75. 1008.    3 NAD-SFC NoSubs
11  1 16  16 18  -10.4  0.150 -9.000 -9.000 -999.  142.     29.2  0.0950  0.72  1.00  2.10 351.0  15.0 289.4  2.0   0  0.00   79. 1008.    3 NAD-SFC NoSubs
11  1 16  16 19   -1.2  0.073 -9.000 -9.000 -999.   50.     29.2  0.0960  0.72  1.00  0.50  19.0  15.0 288.8  2.0   0  0.00   82. 1008.    3 NAD-SFC NoSubs
11  1 16  16 20   -0.9  0.065 -9.000 -9.000 -999.   39.     25.8  0.0240  0.72  1.00  0.50 150.0  15.0 288.0  2.0   0  0.00   86. 1009.    3 NAD-SFC NoSubs
11  1 16  16 21   -1.0  0.065 -9.000 -9.000 -999.   40.     26.2  0.0280  0.72  1.00  0.50 136.0  15.0 287.4  2.0   0  0.00   89. 1009.    3 NAD-SFC NoSubs
11  1 16  16 22   -1.0  0.066 -9.000 -9.000 -999.   40.     26.2  0.0280  0.72  1.00  0.50 126.0  15.0 286.9  2.0   0  0.00   92. 1009.    3 NAD-SFC NoSubs
11  1 16  16 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 286.4  2.0   0  0.00   94. 1009.    3 NAD-SFC NoSubs
11  1 16  16 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 286.0  2.0   0  0.00   96. 1009.    3 NAD-SFC NoSubs
11  1 17  17  1   -1.1  0.069 -9.000 -9.000 -999.   43.     27.5  0.0420  0.72  1.00  0.50 277.0  15.0 285.6  2.0   0  0.00   98. 1009.    2 NAD-SFC NoSubs
11  1 17  17  2   -1.1  0.069 -9.000 -9.000 -999.   43.     27.5  0.0420  0.72  1.00  0.50 288.0  15.0 285.4  2.0   0  0.00   99. 1009.    2 NAD-SFC NoSubs
11  1 17  17  3   -2.8  0.085 -9.000 -9.000 -999.   59.     19.5  0.0800  0.72  1.00  1.00 309.0  15.0 284.8  2.0   0  0.00  100. 1009.    2 NAD-SFC NoSubs
11  1 17  17  4   -1.3  0.075 -9.000 -9.000 -999.   49.     29.7  0.0950  0.72  1.00  0.50 334.0  15.0 283.8  2.0   0  0.00  100. 1009.    2 NAD-SFC NoSubs
11  1 17  17  5   -2.9  0.087 -9.000 -9.000 -999.   61.     20.0  0.0960  0.72  1.00  1.00   3.0  15.0 283.6  2.0   0  0.00  100. 1009.    2 NAD-SFC NoSubs
11  1 17  17  6   -1.3  0.075 -9.000 -9.000 -999.   49.     29.7  0.0960  0.72  1.00  0.50   7.0  15.0 283.4  2.0   0  0.00  100. 1009.    2 NAD-SFC NoSubs
11  1 17  17  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 283.4  2.0   0  0.00  100. 1009.    2 NAD-SFC NoSubs
11  1 17  17  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.60  0.00   0.0  15.0 283.8  2.0   0  0.00  100. 1009.    2 NAD-SFC NoSubs
11  1 17  17  9   18.3  0.069  0.330  0.013   71.   44.     -1.6  0.0800  0.72  0.33  0.50 314.0  15.0 283.8  2.0   0  0.00  100. 1009.    2 NAD-SFC NoSubs
11  1 17  17 10   61.4  0.081  0.716  0.013  215.   55.     -1.0  0.0800  0.72  0.24  0.50 322.0  15.0 283.9  2.0   0  0.00  100. 1009.    3 NAD-SFC NoSubs
11  1 17  17 11   91.7  0.130  0.956  0.014  342.  113.     -2.2  0.0800  0.72  0.21  1.00 326.0  15.0 284.2  2.0   0  0.00  100. 1008.    3 NAD-SFC NoSubs
11  1 17  17 12  108.3  0.179  1.094  0.014  434.  181.     -4.7  0.0950  0.72  0.20  1.50 345.0  15.0 284.9  2.0   0  0.00  100. 1007.    3 NAD-SFC NoSubs
11  1 17  17 13  110.2  0.179  1.154  0.013  501.  182.     -4.7  0.0950  0.72  0.20  1.50 336.0  15.0 285.6  2.0   0  0.00   97. 1007.    3 NAD-SFC NoSubs
11  1 17  17 14   97.7  0.223  1.148  0.013  555.  252.    -10.1  0.0950  0.72  0.21  2.10 348.0  15.0 286.9  2.0   0  0.00   91. 1006.    3 NAD-SFC NoSubs
11  1 17  17 15   71.1 -9.000 -9.000 -9.000  592. -999. -99999.0  0.0471  0.72  0.23  0.00   0.0  15.0 288.1  2.0   0  0.00   85. 1006.    3 NAD-SFC NoSubs
11  1 17  17 16   31.9  0.202  0.815  0.013  607.  218.    -23.2  0.0960  0.72  0.30  2.10  12.0  15.0 288.2  2.0   0  0.00   84. 1005.    3 NAD-SFC NoSubs
11  1 17  17 17   -4.0  0.107 -9.000 -9.000 -999.   88.     27.9  0.0960  0.72  0.50  1.50   8.0  15.0 287.8  2.0   0  0.00   88. 1005.    3 NAD-SFC NoSubs
11  1 17  17 18   -1.2  0.074 -9.000 -9.000 -999.   48.     29.3  0.0950  0.72  1.00  0.50 359.0  15.0 287.1  2.0   0  0.00   91. 1005.    3 NAD-SFC NoSubs
11  1 17  17 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 286.5  2.0   0  0.00   94. 1006.    3 NAD-SFC NoSubs
11  1 17  17 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 286.0  2.0   0  0.00   97. 1005.    3 NAD-SFC NoSubs
11  1 17  17 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 285.5  2.0   0  0.00  100. 1005.    3 NAD-SFC NoSubs
11  1 17  17 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 285.0  2.0   0  0.00  100. 1005.    3 NAD-SFC NoSubs
11  1 17  17 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 283.5  2.0   0  0.00  100. 1005.    3 NAD-SFC NoSubs
11  1 17  17 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 282.8  2.0   0  0.00  100. 1005.    3 NAD-SFC NoSubs
11  1 18  18  1   -1.2  0.074 -9.000 -9.000 -999.   48.     29.4  0.0950  0.72  1.00  0.50 350.0  15.0 283.0  2.0   0  0.00  100. 1005.    3 NAD-SFC NoSubs
11  1 18  18  2   -1.2  0.073 -9.000 -9.000 -999.   47.     29.0  0.0800  0.72  1.00  0.50 319.0  15.0 283.4  2.0   0  0.00  100. 1005.    3 NAD-SFC NoSubs
11  1 18  18  3   -2.8  0.084 -9.000 -9.000 -999.   59.     19.4  0.0800  0.72  1.00  1.00 319.0  15.0 283.8  2.0   0  0.00  100. 1005.    3 NAD-SFC NoSubs
11  1 18  18  4   -2.7  0.084 -9.000 -9.000 -999.   59.     19.4  0.0800  0.72  1.00  1.00 313.0  15.0 284.1  2.0   0  0.00  100. 1005.    3 NAD-SFC NoSubs
11  1 18  18  5   -2.7  0.084 -9.000 -9.000 -999.   59.     19.4  0.0800  0.72  1.00  1.00 305.0  15.0 284.2  2.0   0  0.00  100. 1005.    3 NAD-SFC NoSubs
11  1 18  18  6   -4.3  0.095 -9.000 -9.000 -999.   70.     17.5  0.0420  0.72  1.00  1.50 292.0  15.0 284.2  2.0   0  0.00  100. 1005.    3 NAD-SFC NoSubs
11  1 18  18  7   -8.2  0.128 -9.000 -9.000 -999.  110.     22.9  0.0420  0.72  1.00  2.10 279.0  15.0 284.1  2.0   0  0.00  100. 1005.    3 NAD-SFC NoSubs
11  1 18  18  8   -3.9  0.093 -9.000 -9.000 -999.   68.     18.2  0.0420  0.72  0.60  1.50 278.0  15.0 283.9  2.0   0  0.00  100. 1005.    3 NAD-SFC NoSubs
11  1 18  18  9   20.4  0.088  0.398  0.015  111.   62.     -3.0  0.0200  0.72  0.33  1.00 263.0  15.0 283.9  2.0   0  0.00  100. 1005.    3 NAD-SFC NoSubs
11  1 18  18 10   62.2 -9.000 -9.000 -9.000  178. -999. -99999.0  0.0471  0.72  0.24  0.00   0.0  15.0 284.8  2.0   0  0.00   95. 1006.    3 NAD-SFC NoSubs
11  1 18  18 11   92.0 -9.000 -9.000 -9.000  281. -999. -99999.0  0.0471  0.72  0.21  0.00   0.0  15.0 286.2  2.0   0  0.00   85. 1005.    2 NAD-SFC NoSubs
11  1 18  18 12  109.2 -9.000 -9.000 -9.000  384. -999. -99999.0  0.0471  0.72  0.20  0.00   0.0  15.0 288.2  2.0   0  0.00   73. 1005.    2 NAD-SFC NoSubs
11  1 18  18 13  111.5  0.090  1.138  0.015  473.   65.     -1.0  0.0950  0.72  0.20  0.50 331.0  15.0 289.8  2.0   0  0.00   64. 1004.    2 NAD-SFC NoSubs
11  1 18  18 14   99.0  0.177  1.143  0.014  541.  179.     -5.0  0.0950  0.72  0.21  1.50 335.0  15.0 290.6  2.0   0  0.00   60. 1004.    2 NAD-SFC NoSubs
11  1 18  18 15   71.9  0.216  1.056  0.014  585.  242.    -12.6  0.0950  0.72  0.23  2.10 331.0  15.0 291.0  2.0   0  0.00   58. 1003.    2 NAD-SFC NoSubs
11  1 18  18 16   32.2  0.202  0.817  0.014  604.  218.    -22.8  0.0950  0.72  0.30  2.10 345.0  15.0 290.9  2.0   0  0.00   61. 1003.    2 NAD-SFC NoSubs
11  1 18  18 17   15.5 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.50  0.00   0.0  15.0 290.2  2.0   0  0.00   65. 1003.    2 NAD-SFC NoSubs
11  1 18  18 18   -1.1  0.071 -9.000 -9.000 -999.   46.     28.5  0.0650  0.72  1.00  0.50  49.0  15.0 289.1  2.0   0  0.00   70. 1004.    2 NAD-SFC NoSubs
11  1 18  18 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00   0.0  15.0 288.0  2.0   0  0.00   75. 1004.    2 NAD-SFC NoSubs
11  1 18  18 20   -0.9  0.065 -9.000 -9.000 -999.   40.     25.9  0.0220  0.72  1.00  0.50 180.0  15.0 287.1  2.0   0  0.00   80. 1004.    2 NAD-SFC NoSubs
11  1 18  18 21   -1.0  0.065 -9.000 -9.000 -999.   40.     26.1  0.0240  0.72  1.00  0.50 169.0  15.0 286.2  2.0   0  0.00   83. 1004.    2 NAD-SFC NoSubs
11  1 18  18 22   -1.0  0.066 -9.000 -9.000 -999.   40.     26.2  0.0240  0.72  1.00  0.50 161.0  15.0 285.8  2.0   0  0.00   86. 1004.    2 NAD-SFC NoSubs
11  1 18  18 23   -1.0  0.065 -9.000 -9.000 -999.   40.     26.0  0.0220  0.72  1.00  0.50 233.0  15.0 285.2  2.0   0  0.00   86. 1005.    2 NAD-SFC NoSubs
11  1 18  18 24   -2.1  0.073 -9.000 -9.000 -999.   48.     16.6  0.0200  0.72  1.00  1.00 266.0  15.0 284.9  2.0   0  0.00   85. 1005.    2 NAD-SFC NoSubs
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11  1 19  19  1   -2.4  0.079 -9.000 -9.000 -999.   53.     18.0  0.0420  0.72  1.00  1.00  277.0  15.0  284.1  2.0   0  0.00   85.  1005.   2 NAD-SFC NoSubs
11  1 19  19  2   -4.4  0.095 -9.000 -9.000 -999.   70.     17.4  0.0420  0.72  1.00  1.50  297.0  15.0  283.2  2.0   0  0.00   85.  1005.   2 NAD-SFC NoSubs
11  1 19  19  3   -2.8  0.085 -9.000 -9.000 -999.   60.     19.5  0.0800  0.72  1.00  1.00  315.0  15.0  282.2  2.0   0  0.00   86.  1006.   2 NAD-SFC NoSubs
11  1 19  19  4   -2.8  0.085 -9.000 -9.000 -999.   60.     19.5  0.0800  0.72  1.00  1.00  306.0  15.0  281.8  2.0   0  0.00   88.  1006.   2 NAD-SFC NoSubs
11  1 19  19  5   -5.5  0.108 -9.000 -9.000 -999.   86.     20.7  0.0950  0.72  1.00  1.50  333.0  15.0  281.8  2.0   0  0.00   90.  1007.   2 NAD-SFC NoSubs
11  1 19  19  6   -3.0  0.087 -9.000 -9.000 -999.   62.     20.0  0.0950  0.72  1.00  1.00  348.0  15.0  281.4  2.0   0  0.00   92.  1007.   2 NAD-SFC NoSubs
11  1 19  19  7   -2.9  0.086 -9.000 -9.000 -999.   61.     19.9  0.0960  0.72  1.00  1.00   12.0  15.0  281.1  2.0   0  0.00   95.  1008.   3 NAD-SFC NoSubs
11  1 19  19  8   -1.1  0.070 -9.000 -9.000 -999.   44.     28.0  0.0960  0.72  0.59  0.50   22.0  15.0  281.0  2.0   0  0.00   96.  1008.   3 NAD-SFC NoSubs
11  1 19  19  9   20.5  0.195  0.349  0.011   74.  207.    -32.6  0.0960  0.72  0.33  2.10    7.0  15.0  282.4  2.0   0  0.00   90.  1008.   3 NAD-SFC NoSubs
11  1 19  19 10   62.7  0.214  0.705  0.011  201.  237.    -14.0  0.0960  0.72  0.24  2.10    1.0  15.0  284.2  2.0   0  0.00   79.  1008.   3 NAD-SFC NoSubs
11  1 19  19 11   93.5  0.222  0.939  0.011  318.  251.    -10.5  0.0950  0.72  0.21  2.10  344.0  15.0  285.8  2.0   0  0.00   73.  1007.   3 NAD-SFC NoSubs
11  1 19  19 12  110.3  0.219  1.091  0.011  422.  245.     -8.5  0.0800  0.72  0.20  2.10  329.0  15.0  286.9  2.0   0  0.00   68.  1006.   3 NAD-SFC NoSubs
11  1 19  19 13  111.8  0.255  1.174  0.011  519.  309.    -13.3  0.0800  0.72  0.20  2.60  320.0  15.0  287.8  2.0   0  0.00   64.  1005.   2 NAD-SFC NoSubs
11  1 19  19 14   99.3  0.297  1.179  0.011  592.  388.    -23.6  0.0950  0.72  0.21  3.10  330.0  15.0  288.8  2.0   0  0.00   61.  1005.   2 NAD-SFC NoSubs
11  1 19  19 15   72.3  0.290  1.089  0.011  641.  374.    -30.1  0.0950  0.72  0.23  3.10  341.0  15.0  289.1  2.0   0  0.00   59.  1004.   2 NAD-SFC NoSubs
11  1 19  19 16   32.6  0.202  0.845  0.010  661.  221.    -22.6  0.0950  0.72  0.30  2.10  353.0  15.0  289.2  2.0   0  0.00   62.  1004.   2 NAD-SFC NoSubs
11  1 19  19 17   15.8 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.49  0.00    0.0  15.0  288.8  2.0   0  0.00   65.  1004.   3 NAD-SFC NoSubs
11  1 19  19 18   -1.0  0.065 -9.000 -9.000 -999.   40.     26.1  0.0240  0.72  1.00  0.50  158.0  15.0  287.8  2.0   0  0.00   69.  1004.   2 NAD-SFC NoSubs
11  1 19  19 19   -3.9  0.088 -9.000 -9.000 -999.   62.     15.7  0.0240  0.72  1.00  1.50  150.0  15.0  286.8  2.0   0  0.00   74.  1005.   2 NAD-SFC NoSubs
11  1 19  19 20  -16.1  0.177 -9.000 -9.000 -999.  179.     30.7  0.0240  0.72  1.00  3.10  164.0  15.0  285.8  2.0   0  0.00   80.  1005.   2 NAD-SFC NoSubs
11  1 19  19 21  -22.0  0.208 -9.000 -9.000 -999.  227.     36.5  0.0240  0.72  1.00  3.60  167.0  15.0  284.9  2.0   0  0.00   83.  1006.   2 NAD-SFC NoSubs
11  1 19  19 22  -25.7  0.235 -9.000 -9.000 -999.  274.     45.4  0.0220  0.72  1.00  4.10  181.0  15.0  284.4  2.0   0  0.00   84.  1007.   2 NAD-SFC NoSubs
11  1 19  19 23  -21.6  0.205 -9.000 -9.000 -999.  223.     35.7  0.0220  0.72  1.00  3.60  198.0  15.0  284.2  2.0   0  0.00   83.  1007.   2 NAD-SFC NoSubs
11  1 19  19 24  -15.9  0.174 -9.000 -9.000 -999.  175.     30.0  0.0220  0.72  1.00  3.10  226.0  15.0  284.2  2.0   0  0.00   80.  1007.   2 NAD-SFC NoSubs
11  1 20  20  1  -25.4  0.232 -9.000 -9.000 -999.  267.     44.0  0.0200  0.72  1.00  4.10  269.0  15.0  283.9  2.0   0  0.00   79.  1008.   2 NAD-SFC NoSubs
11  1 20  20  2  -28.8  0.262 -9.000 -9.000 -999.  322.     56.2  0.0420  0.72  1.00  4.10  293.0  15.0  283.2  2.0   0  0.00   77.  1008.   2 NAD-SFC NoSubs
11  1 20  20  3  -32.6  0.296 -9.000 -9.000 -999.  386.     71.5  0.0800  0.72  1.00  4.10  317.0  15.0  282.4  2.0   0  0.00   75.  1008.   2 NAD-SFC NoSubs
11  1 20  20  4  -24.1  0.228 -9.000 -9.000 -999.  264.     44.5  0.0950  0.72  1.00  3.10  344.0  15.0  281.8  2.0   0  0.00   75.  1009.   2 NAD-SFC NoSubs
11  1 20  20  5  -16.7  0.189 -9.000 -9.000 -999.  197.     36.2  0.0950  0.72  1.00  2.60  337.0  15.0  281.4  2.0   0  0.00   73.  1009.   2 NAD-SFC NoSubs
11  1 20  20  6   -5.3  0.105 -9.000 -9.000 -999.   84.     19.9  0.0800  0.72  1.00  1.50  323.0  15.0  281.0  2.0   0  0.00   71.  1010.   2 NAD-SFC NoSubs
11  1 20  20  7   -4.5  0.095 -9.000 -9.000 -999.   70.     17.3  0.0420  0.72  1.00  1.50  295.0  15.0  280.6  2.0   0  0.00   69.  1010.   2 NAD-SFC NoSubs
11  1 20  20  8   -4.1  0.093 -9.000 -9.000 -999.   68.     17.9  0.0420  0.72  0.59  1.50  278.0  15.0  280.5  2.0   0  0.00   67.  1010.   2 NAD-SFC NoSubs
11  1 20  20  9   19.4  0.258  0.339  0.008   72.  315.    -80.4  0.0800  0.72  0.33  3.10  300.0  15.0  282.2  2.0   0  0.00   55.  1011.   2 NAD-SFC NoSubs
11  1 20  20 10   62.1  0.243  0.705  0.008  203.  287.    -20.7  0.0800  0.72  0.24  2.60  315.0  15.0  284.2  2.0   0  0.00   50.  1011.   2 NAD-SFC NoSubs
11  1 20  20 11   93.4  0.193  0.969  0.009  351.  204.     -6.9  0.0420  0.72  0.21  2.10  298.0  15.0  286.1  2.0   0  0.00   44.  1010.   2 NAD-SFC NoSubs
11  1 20  20 12  110.6  0.174  1.156  0.010  503.  174.     -4.3  0.0800  0.72  0.20  1.50  306.0  15.0  287.4  2.0   0  0.00   41.  1010.   2 NAD-SFC NoSubs
11  1 20  20 13  112.9  0.226  1.257  0.010  634.  258.     -9.2  0.0950  0.72  0.20  2.10  333.0  15.0  288.5  2.0   0  0.00   39.  1009.   2 NAD-SFC NoSubs
11  1 20  20 14  100.4  0.223  1.249  0.010  699.  253.    -10.0  0.0950  0.72  0.21  2.10  340.0  15.0  289.2  2.0   0  0.00   39.  1009.   2 NAD-SFC NoSubs
11  1 20  20 15   73.4  0.217  1.146  0.010  737.  242.    -12.5  0.0950  0.72  0.23  2.10  342.0  15.0  289.5  2.0   0  0.00   39.  1008.   2 NAD-SFC NoSubs
11  1 20  20 16   33.7 -9.000 -9.000 -9.000  753. -999. -99999.0  0.0471  0.72  0.30  0.00    0.0  15.0  289.4  2.0   0  0.00   39.  1008.   2 NAD-SFC NoSubs
11  1 20  20 17   -6.8  0.143 -9.000 -9.000 -999.  129.     38.2  0.0650  0.72  0.49  2.10   31.0  15.0  288.6  2.0   0  0.00   44.  1008.   2 NAD-SFC NoSubs
11  1 20  20 18   -4.9  0.101 -9.000 -9.000 -999.   78.     19.1  0.0650  0.72  1.00  1.50   49.0  15.0  287.4  2.0   0  0.00   49.  1009.   2 NAD-SFC NoSubs
11  1 20  20 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  286.1  2.0   0  0.00   55.  1009.   2 NAD-SFC NoSubs
11  1 20  20 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  284.8  2.0   0  0.00   62.  1009.   2 NAD-SFC NoSubs
11  1 20  20 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  283.8  2.0   0  0.00   67.  1009.   2 NAD-SFC NoSubs
11  1 20  20 22   -1.2  0.072 -9.000 -9.000 -999.   46.     28.7  0.0650  0.72  1.00  0.50   34.0  15.0  283.0  2.0   0  0.00   70.  1009.   2 NAD-SFC NoSubs
11  1 20  20 23   -1.2  0.072 -9.000 -9.000 -999.   46.     28.7  0.0650  0.72  1.00  0.50   39.0  15.0  282.4  2.0   0  0.00   73.  1009.   2 NAD-SFC NoSubs
11  1 20  20 24   -3.0  0.087 -9.000 -9.000 -999.   62.     20.0  0.0960  0.72  1.00  1.00   28.0  15.0  281.8  2.0   0  0.00   75.  1009.   2 NAD-SFC NoSubs
11  1 21  21  1   -1.3  0.075 -9.000 -9.000 -999.   49.     29.8  0.0950  0.72  1.00  0.50  349.0  15.0  281.2  2.0   0  0.00   77.  1009.   2 NAD-SFC NoSubs
11  1 21  21  2   -2.8  0.085 -9.000 -9.000 -999.   60.     19.5  0.0800  0.72  1.00  1.00  310.0  15.0  280.8  2.0   0  0.00   78.  1009.   2 NAD-SFC NoSubs
11  1 21  21  3   -4.5  0.095 -9.000 -9.000 -999.   70.     17.3  0.0420  0.72  1.00  1.50  299.0  15.0  280.4  2.0   0  0.00   78.  1009.   2 NAD-SFC NoSubs
11  1 21  21  4  -10.2  0.145 -9.000 -9.000 -999.  132.     26.8  0.0800  0.72  1.00  2.10  300.0  15.0  280.0  2.0   0  0.00   77.  1009.   2 NAD-SFC NoSubs
11  1 21  21  5   -8.4  0.128 -9.000 -9.000 -999.  110.     22.4  0.0420  0.72  1.00  2.10  297.0  15.0  279.6  2.0   0  0.00   76.  1009.   2 NAD-SFC NoSubs
11  1 21  21  6  -13.1  0.161 -9.000 -9.000 -999.  155.     28.5  0.0420  0.72  1.00  2.60  291.0  15.0  279.2  2.0   0  0.00   75.  1009.   2 NAD-SFC NoSubs
11  1 21  21  7  -13.1  0.161 -9.000 -9.000 -999.  155.     28.5  0.0420  0.72  1.00  2.60  279.0  15.0  279.0  2.0   0  0.00   72.  1010.   2 NAD-SFC NoSubs
11  1 21  21  8   -7.8  0.128 -9.000 -9.000 -999.  111.     24.3  0.0420  0.72  0.59  2.10  277.0  15.0  279.0  2.0   0  0.00   69.  1010.   2 NAD-SFC NoSubs
11  1 21  21  9   19.6  0.146  0.331  0.012   67.  134.    -14.2  0.0800  0.72  0.33  1.50  305.0  15.0  280.8  2.0   0  0.00   60.  1010.   2 NAD-SFC NoSubs
11  1 21  21 10   62.4  0.081  0.662  0.012  167.   56.     -1.0  0.0800  0.72  0.24  0.50  300.0  15.0  282.4  2.0   0  0.00   56.  1010.   2 NAD-SFC NoSubs
11  1 21  21 11   93.7 -9.000 -9.000 -9.000  305. -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0  284.2  2.0   0  0.00   52.  1009.   2 NAD-SFC NoSubs
11  1 21  21 12  111.1  0.087  1.095  0.012  425.   62.     -1.0  0.0800  0.72  0.20  0.50  305.0  15.0  286.2  2.0   0  0.00   45.  1008.   2 NAD-SFC NoSubs
11  1 21  21 13  113.5  0.119  1.173  0.012  512.   99.     -1.3  0.0420  0.72  0.20  1.00  299.0  15.0  287.2  2.0   0  0.00   42.  1007.   2 NAD-SFC NoSubs
11  1 21  21 14  101.0  0.132  1.176  0.010  578.  115.     -2.0  0.0800  0.72  0.21  1.00  316.0  15.0  288.1  2.0   0  0.00   41.  1007.   2 NAD-SFC NoSubs
11  1 21  21 15   74.1  0.131  1.087  0.010  623.  114.     -2.7  0.0950  0.72  0.23  1.00  340.0  15.0  288.5  2.0   0  0.00   40.  1006.   2 NAD-SFC NoSubs
11  1 21  21 16   34.4  0.159  0.851  0.009  642.  152.    -10.4  0.0950  0.72  0.29  1.50  358.0  15.0  288.4  2.0   0  0.00   43.  1006.   2 NAD-SFC NoSubs
11  1 21  21 17   -1.7  0.073 -9.000 -9.000 -999.   50.     20.4  0.0960  0.72  0.48  1.00   28.0  15.0  287.8  2.0   0  0.00   47.  1006.   2 NAD-SFC NoSubs
11  1 21  21 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  286.5  2.0   0  0.00   52.  1005.   2 NAD-SFC NoSubs
11  1 21  21 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  285.1  2.0   0  0.00   58.  1005.   2 NAD-SFC NoSubs
11  1 21  21 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  284.0  2.0   0  0.00   64.  1005.   2 NAD-SFC NoSubs
11  1 21  21 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  283.0  2.0   0  0.00   69.  1005.   2 NAD-SFC NoSubs
11  1 21  21 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.2  2.0   0  0.00   73.  1004.   2 NAD-SFC NoSubs
11  1 21  21 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  281.6  2.0   0  0.00   76.  1004.   2 NAD-SFC NoSubs
11  1 21  21 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  281.1  2.0   0  0.00   77.  1004.   2 NAD-SFC NoSubs
11  1 22  22  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  280.6  2.0   0  0.00   80.  1004.   2 NAD-SFC NoSubs
11  1 22  22  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  280.1  2.0   0  0.00   82.  1004.   2 NAD-SFC NoSubs
11  1 22  22  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  279.8  2.0   0  0.00   84.  1003.   2 NAD-SFC NoSubs
11  1 22  22  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  279.4  2.0   0  0.00   85.  1003.   2 NAD-SFC NoSubs
11  1 22  22  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  279.1  2.0   0  0.00   86.  1003.   2 NAD-SFC NoSubs
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11  1 22  22  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 278.8  2.0    0  0.00  86. 1003.    2 NAD-SFC NoSubs
11  1 22  22  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 278.8  2.0    0  0.00  85. 1003.    2 NAD-SFC NoSubs
11  1 22  22  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.58  0.00    0.0  15.0 278.8  2.0    0  0.00  84. 1003.    2 NAD-SFC NoSubs
11  1 22  22  9   20.3 -9.000 -9.000 -9.000   51. -999. -99999.0  0.0471  0.72  0.33  0.00    0.0  15.0 281.2  2.0    0  0.00  72. 1003.    2 NAD-SFC NoSubs
11  1 22  22 10   63.5  0.125  0.629  0.014  140.  106.     -2.7  0.0800  0.72  0.24  1.00  324.0  15.0 284.2  2.0    0  0.00  56. 1003.    2 NAD-SFC NoSubs
11  1 22  22 11   95.0  0.086  0.877  0.012  254.   60.     -1.0  0.0800  0.72  0.21  0.50  318.0  15.0 286.2  2.0    0  0.00  51. 1002.    2 NAD-SFC NoSubs
11  1 22  22 12  112.4  0.088  1.043  0.011  361.   62.     -1.0  0.0800  0.72  0.20  0.50  313.0  15.0 288.0  2.0    0  0.00  44. 1002.    2 NAD-SFC NoSubs
11  1 22  22 13  115.0  0.134  1.133  0.010  453.  118.     -1.9  0.0800  0.72  0.20  1.00  317.0  15.0 289.1  2.0    0  0.00  40. 1002.    2 NAD-SFC NoSubs
11  1 22  22 14  102.5  0.172  1.146  0.009  524.  172.     -4.5  0.0800  0.72  0.21  1.50  317.0  15.0 289.6  2.0    0  0.00  39. 1002.    2 NAD-SFC NoSubs
11  1 22  22 15   75.5  0.217  1.065  0.009  571.  243.    -12.2  0.0950  0.72  0.23  2.10  335.0  15.0 289.8  2.0    0  0.00  40. 1002.    2 NAD-SFC NoSubs
11  1 22  22 16   35.7  0.204  0.840  0.008  592.  221.    -21.2  0.0960  0.72  0.29  2.10    4.0  15.0 289.4  2.0    0  0.00  47. 1002.    2 NAD-SFC NoSubs
11  1 22  22 17   12.6 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.48  0.00    0.0  15.0 288.6  2.0    0  0.00  51. 1002.    2 NAD-SFC NoSubs
11  1 22  22 18  -10.6  0.150 -9.000 -9.000 -999.  140.     28.7  0.0960  0.72  1.00  2.10   26.0  15.0 287.4  2.0    0  0.00  56. 1003.    2 NAD-SFC NoSubs
11  1 22  22 19   -1.1  0.068 -9.000 -9.000 -999.   46.     27.4  0.0400  0.72  1.00  0.50   75.0  15.0 286.2  2.0    0  0.00  61. 1004.    2 NAD-SFC NoSubs
11  1 22  22 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 285.2  2.0    0  0.00  67. 1004.    2 NAD-SFC NoSubs
11  1 22  22 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 284.2  2.0    0  0.00  71. 1005.    2 NAD-SFC NoSubs
11  1 22  22 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 283.5  2.0    0  0.00  75. 1006.    2 NAD-SFC NoSubs
11  1 22  22 23   -1.0  0.066 -9.000 -9.000 -999.   40.     26.2  0.0240  0.72  1.00  0.50  171.0  15.0 283.0  2.0    0  0.00  77. 1007.    2 NAD-SFC NoSubs
11  1 22  22 24   -2.2  0.074 -9.000 -9.000 -999.   48.     16.8  0.0220  0.72  1.00  1.00  203.0  15.0 282.6  2.0    0  0.00  78. 1007.    2 NAD-SFC NoSubs
11  1 23  23  1   -1.0  0.065 -9.000 -9.000 -999.   40.     26.1  0.0220  0.72  1.00  0.50  210.0  15.0 282.2  2.0    0  0.00  80. 1007.    2 NAD-SFC NoSubs
11  1 23  23  2   -0.9  0.065 -9.000 -9.000 -999.   40.     25.9  0.0200  0.72  1.00  0.50  247.0  15.0 281.9  2.0    0  0.00  80. 1008.    2 NAD-SFC NoSubs
11  1 23  23  3   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0420  0.72  1.00  0.50  280.0  15.0 281.5  2.0    0  0.00  80. 1008.    2 NAD-SFC NoSubs
11  1 23  23  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 281.0  2.0    0  0.00  79. 1008.    2 NAD-SFC NoSubs
11  1 23  23  5   -1.2  0.072 -9.000 -9.000 -999.   47.     28.8  0.0650  0.72  1.00  0.50   59.0  15.0 280.6  2.0    0  0.00  77. 1009.    2 NAD-SFC NoSubs
11  1 23  23  6   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0400  0.72  1.00  0.50   71.0  15.0 280.2  2.0    0  0.00  76. 1009.    2 NAD-SFC NoSubs
11  1 23  23  7   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0400  0.72  1.00  0.50   89.0  15.0 279.9  2.0    0  0.00  73. 1010.    2 NAD-SFC NoSubs
11  1 23  23  8   -2.1  0.074 -9.000 -9.000 -999.   49.     17.4  0.0400  0.72  0.58  1.00   77.0  15.0 279.8  2.0    0  0.00  70. 1010.    2 NAD-SFC NoSubs
11  1 23  23  9   20.9  0.131  0.319  0.009   56.  113.     -9.6  0.0400  0.72  0.32  1.50   85.0  15.0 281.6  2.0    0  0.00  63. 1010.    2 NAD-SFC NoSubs
11  1 23  23 10   64.4  0.145  0.667  0.009  166.  133.     -4.3  0.0400  0.72  0.24  1.50   69.0  15.0 285.1  2.0    0  0.00  45. 1010.    2 NAD-SFC NoSubs
11  1 23  23 11   96.0  0.165  0.965  0.009  337.  160.     -4.2  0.0650  0.72  0.21  1.50   56.0  15.0 286.9  2.0    0  0.00  42. 1010.    2 NAD-SFC NoSubs
11  1 23  23 12  113.4  0.211  1.144  0.009  476.  233.     -7.5  0.0650  0.72  0.20  2.10   54.0  15.0 288.2  2.0    0  0.00  42. 1010.    2 NAD-SFC NoSubs
11  1 23  23 13  116.1  0.247  1.237  0.009  586.  294.    -11.6  0.0650  0.72  0.20  2.60   30.0  15.0 289.6  2.0    0  0.00  38. 1009.    2 NAD-SFC NoSubs
11  1 23  23 14  103.7  0.298  1.243  0.009  668.  391.    -23.1  0.0960  0.72  0.21  3.10   19.0  15.0 290.0  2.0    0  0.00  38. 1009.    2 NAD-SFC NoSubs
11  1 23  23 15   76.7  0.291  1.151  0.009  716.  378.    -29.0  0.0960  0.72  0.23  3.10   10.0  15.0 290.0  2.0    0  0.00  39. 1008.    2 NAD-SFC NoSubs
11  1 23  23 16   36.8  0.241  0.911  0.009  738.  284.    -34.0  0.0960  0.72  0.29  2.60   13.0  15.0 289.6  2.0    0  0.00  45. 1008.    2 NAD-SFC NoSubs
11  1 23  23 17   -6.8  0.156 -9.000 -9.000 -999.  150.     50.2  0.0960  0.72  0.47  2.10   12.0  15.0 288.8  2.0    0  0.00  46. 1008.    2 NAD-SFC NoSubs
11  1 23  23 18   -4.9  0.101 -9.000 -9.000 -999.   78.     19.1  0.0650  0.72  1.00  1.50   35.0  15.0 287.6  2.0    0  0.00  50. 1008.    2 NAD-SFC NoSubs
11  1 23  23 19   -1.3  0.075 -9.000 -9.000 -999.   49.     29.6  0.0960  0.72  1.00  0.50   14.0  15.0 286.2  2.0    0  0.00  55. 1009.    2 NAD-SFC NoSubs
11  1 23  23 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 285.0  2.0    0  0.00  60. 1009.    2 NAD-SFC NoSubs
11  1 23  23 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 283.9  2.0    0  0.00  66. 1009.    2 NAD-SFC NoSubs
11  1 23  23 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 282.9  2.0    0  0.00  71. 1010.    2 NAD-SFC NoSubs
11  1 23  23 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 282.2  2.0    0  0.00  74. 1010.    2 NAD-SFC NoSubs
11  1 23  23 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 281.6  2.0    0  0.00  75. 1010.    2 NAD-SFC NoSubs
11  1 24  24  1   -1.2  0.072 -9.000 -9.000 -999.   47.     28.8  0.0650  0.72  1.00  0.50   56.0  15.0 281.0  2.0    0  0.00  76. 1010.    2 NAD-SFC NoSubs
11  1 24  24  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 280.6  2.0    0  0.00  78. 1010.    2 NAD-SFC NoSubs
11  1 24  24  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 280.2  2.0    0  0.00  79. 1010.    2 NAD-SFC NoSubs
11  1 24  24  4   -1.2  0.074 -9.000 -9.000 -999.   48.     29.4  0.0800  0.72  1.00  0.50  308.0  15.0 279.8  2.0    0  0.00  79. 1010.    2 NAD-SFC NoSubs
11  1 24  24  5   -2.5  0.079 -9.000 -9.000 -999.   54.     18.1  0.0420  0.72  1.00  1.00  289.0  15.0 279.6  2.0    0  0.00  79. 1010.    2 NAD-SFC NoSubs
11  1 24  24  6   -2.5  0.079 -9.000 -9.000 -999.   54.     18.1  0.0420  0.72  1.00  1.00  282.0  15.0 279.4  2.0    0  0.00  79. 1010.    2 NAD-SFC NoSubs
11  1 24  24  7   -2.2  0.074 -9.000 -9.000 -999.   48.     16.6  0.0200  0.72  1.00  1.00  267.0  15.0 279.1  2.0    0  0.00  80. 1010.    2 NAD-SFC NoSubs
11  1 24  24  8   -1.9  0.069 -9.000 -9.000 -999.   44.     16.0  0.0200  0.72  0.58  1.00  243.0  15.0 279.0  2.0    0  0.00  80. 1010.    2 NAD-SFC NoSubs
11  1 24  24  9   21.4  0.063  0.325  0.013   57.   38.     -1.0  0.0420  0.72  0.32  0.50  278.0  15.0 281.1  2.0    0  0.00  69. 1010.    2 NAD-SFC NoSubs
11  1 24  24 10   64.8 -9.000 -9.000 -9.000  160. -999. -99999.0  0.0471  0.72  0.24  0.00    0.0  15.0 283.4  2.0    0  0.00  58. 1010.    2 NAD-SFC NoSubs
11  1 24  24 11   96.4 -9.000 -9.000 -9.000  326. -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0 285.2  2.0    0  0.00  50. 1009.    2 NAD-SFC NoSubs
11  1 24  24 12  113.9  0.119  1.133  0.008  460.   99.     -1.3  0.0420  0.72  0.20  1.00  298.0  15.0 286.8  2.0    0  0.00  43. 1009.    2 NAD-SFC NoSubs
11  1 24  24 13  116.5  0.175  1.220  0.008  561.  175.     -4.1  0.0800  0.72  0.20  1.50  309.0  15.0 287.8  2.0    0  0.00  40. 1008.    2 NAD-SFC NoSubs
11  1 24  24 14  104.1  0.217  1.226  0.008  638.  243.     -8.9  0.0800  0.72  0.21  2.10  327.0  15.0 288.0  2.0    0  0.00  39. 1008.    2 NAD-SFC NoSubs
11  1 24  24 15   77.0  0.254  1.143  0.009  696.  308.    -19.2  0.0950  0.72  0.23  2.60  343.0  15.0 287.8  2.0    0  0.00  44. 1007.    2 NAD-SFC NoSubs
11  1 24  24 16   37.1  0.240  0.908  0.009  724.  283.    -33.6  0.0950  0.72  0.29  2.60  348.0  15.0 287.1  2.0    0  0.00  50. 1007.    2 NAD-SFC NoSubs
11  1 24  24 17   -6.6  0.156 -9.000 -9.000 -999.  150.     51.7  0.0960  0.72  0.46  2.10    8.0  15.0 286.5  2.0    0  0.00  52. 1007.    2 NAD-SFC NoSubs
11  1 24  24 18   -1.2  0.073 -9.000 -9.000 -999.   51.     29.1  0.0800  0.72  1.00  0.50  322.0  15.0 285.6  2.0    0  0.00  55. 1007.    2 NAD-SFC NoSubs
11  1 24  24 19   -1.0  0.065 -9.000 -9.000 -999.   40.     26.0  0.0220  0.72  1.00  0.50  232.0  15.0 284.5  2.0    0  0.00  60. 1007.    2 NAD-SFC NoSubs
11  1 24  24 20   -0.9  0.065 -9.000 -9.000 -999.   40.     25.8  0.0200  0.72  1.00  0.50  242.0  15.0 283.5  2.0    0  0.00  65. 1007.    2 NAD-SFC NoSubs
11  1 24  24 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 282.8  2.0    0  0.00  69. 1007.    2 NAD-SFC NoSubs
11  1 24  24 22   -1.1  0.069 -9.000 -9.000 -999.   43.     27.5  0.0400  0.72  1.00  0.50   75.0  15.0 281.9  2.0    0  0.00  72. 1007.    2 NAD-SFC NoSubs
11  1 24  24 23   -1.1  0.069 -9.000 -9.000 -999.   43.     27.5  0.0400  0.72  1.00  0.50   73.0  15.0 281.4  2.0    0  0.00  75. 1007.    2 NAD-SFC NoSubs
11  1 24  24 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 280.9  2.0    0  0.00  76. 1007.    2 NAD-SFC NoSubs
11  1 25  25  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 280.4  2.0    0  0.00  78. 1007.    2 NAD-SFC NoSubs
11  1 25  25  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 280.0  2.0    0  0.00  80. 1007.    2 NAD-SFC NoSubs
11  1 25  25  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 279.8  2.0    0  0.00  81. 1008.    2 NAD-SFC NoSubs
11  1 25  25  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 279.4  2.0    0  0.00  82. 1008.    2 NAD-SFC NoSubs
11  1 25  25  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 279.1  2.0    0  0.00  82. 1008.    2 NAD-SFC NoSubs
11  1 25  25  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 278.8  2.0    0  0.00  83. 1008.    2 NAD-SFC NoSubs
11  1 25  25  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 278.6  2.0    0  0.00  83. 1008.    2 NAD-SFC NoSubs
11  1 25  25  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.57  0.00    0.0  15.0 278.6  2.0    0  0.00  82. 1009.    2 NAD-SFC NoSubs
11  1 25  25  9   22.1 -9.000 -9.000 -9.000   58. -999. -99999.0  0.0471  0.72  0.32  0.00    0.0  15.0 281.1  2.0    0  0.00  69. 1009.    2 NAD-SFC NoSubs
11  1 25  25 10   65.7  0.125  0.665  0.013  161.  106.     -2.7  0.0800  0.72  0.24  1.00  322.0  15.0 284.1  2.0    0  0.00  56. 1009.    2 NAD-SFC NoSubs
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11  1 25  25 11   97.5  0.131  0.927  0.012  294.  114.     -2.1  0.0800  0.72  0.21   1.00  311.0  15.0  286.1  2.0   0  0.00  51.  1009.   2 NAD-SFC NoSubs
11  1 25  25 12  115.2  0.134  1.094  0.011  409.  117.     -1.9  0.0800  0.72  0.20   1.00  308.0  15.0  288.0  2.0   0  0.00  45.  1008.   2 NAD-SFC NoSubs
11  1 25  25 13  117.9  0.175  1.171  0.011  489.  175.     -4.1  0.0800  0.72  0.20   1.50  323.0  15.0  289.2  2.0   0  0.00  42.  1007.   2 NAD-SFC NoSubs
11  1 25  25 14  105.7  0.178  1.176  0.010  552.  181.     -4.8  0.0950  0.72  0.20   1.50  332.0  15.0  289.9  2.0   0  0.00  42.  1006.   2 NAD-SFC NoSubs
11  1 25  25 15   78.9  0.172  1.093  0.009  594.  172.     -5.8  0.0950  0.72  0.23   1.50  342.0  15.0  290.1  2.0   0  0.00  43.  1006.   2 NAD-SFC NoSubs
11  1 25  25 16   39.6  0.161  0.880  0.009  616.  155.     -9.4  0.0950  0.72  0.28   1.50  330.0  15.0  291.5  2.0   0  0.00  55.  1005.   2 NAD-SFC NoSubs
11  1 25  25 17   -3.0  0.109 -9.000 -9.000 -999.   87.     38.6  0.0950  0.72  0.46   1.50  336.0  15.0  290.9  2.0   0  0.00  59.  1005.   2 NAD-SFC NoSubs
11  1 25  25 18   -2.9  0.086 -9.000 -9.000 -999.   61.     19.9  0.0950  0.72  1.00   1.00  331.0  15.0  289.8  2.0   0  0.00  63.  1006.   2 NAD-SFC NoSubs
11  1 25  25 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  288.5  2.0   0  0.00  69.  1007.   2 NAD-SFC NoSubs
11  1 25  25 20   -0.9  0.065 -9.000 -9.000 -999.   40.     25.9  0.0220  0.72  1.00   0.50  210.0  15.0  287.2  2.0   0  0.00  75.  1007.   2 NAD-SFC NoSubs
11  1 25  25 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  286.2  2.0   0  0.00  80.  1007.   2 NAD-SFC NoSubs
11  1 25  25 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  285.4  2.0   0  0.00  85.  1008.   2 NAD-SFC NoSubs
11  1 25  25 23   -1.2  0.073 -9.000 -9.000 -999.   48.     29.2  0.0800  0.72  1.00   0.50  327.0  15.0  284.6  2.0   0  0.00  88.  1008.   2 NAD-SFC NoSubs
11  1 25  25 24   -2.8  0.085 -9.000 -9.000 -999.   59.     19.5  0.0800  0.72  1.00   1.00  320.0  15.0  284.0  2.0   0  0.00  90.  1009.   2 NAD-SFC NoSubs
11  1 26  26  1   -2.8  0.085 -9.000 -9.000 -999.   59.     19.5  0.0800  0.72  1.00   1.00  302.0  15.0  283.6  2.0   0  0.00  89.  1009.   2 NAD-SFC NoSubs
11  1 26  26  2   -5.2  0.105 -9.000 -9.000 -999.   82.     19.9  0.0800  0.72  1.00   1.50  305.0  15.0  283.2  2.0   0  0.00  87.  1009.   2 NAD-SFC NoSubs
11  1 26  26  3   -8.4  0.128 -9.000 -9.000 -999.  110.     22.5  0.0420  0.72  1.00   2.10  288.0  15.0  283.0  2.0   0  0.00  84.  1009.   2 NAD-SFC NoSubs
11  1 26  26  4  -13.0  0.161 -9.000 -9.000 -999.  155.     28.7  0.0420  0.72  1.00   2.60  298.0  15.0  282.8  2.0   0  0.00  81.  1010.   2 NAD-SFC NoSubs
11  1 26  26  5  -15.8  0.182 -9.000 -9.000 -999.  187.     34.4  0.0800  0.72  1.00   2.60  314.0  15.0  282.2  2.0   0  0.00  78.  1010.   2 NAD-SFC NoSubs
11  1 26  26  6  -10.1  0.145 -9.000 -9.000 -999.  132.     26.9  0.0800  0.72  1.00   2.10  306.0  15.0  281.9  2.0   0  0.00  76.  1010.   2 NAD-SFC NoSubs
11  1 26  26  7   -5.3  0.105 -9.000 -9.000 -999.   82.     19.9  0.0800  0.72  1.00   1.50  313.0  15.0  281.5  2.0   0  0.00  76.  1011.   2 NAD-SFC NoSubs
11  1 26  26  8   -0.9  0.063 -9.000 -9.000 -999.   38.     25.7  0.0420  0.72  0.57   0.50  276.0  15.0  281.2  2.0   0  0.00  75.  1011.   2 NAD-SFC NoSubs
11  1 26  26  9   23.2  0.191  0.373  0.008   81.  200.    -26.9  0.0800  0.72  0.32   2.10  313.0  15.0  283.4  2.0   0  0.00  60.  1011.   2 NAD-SFC NoSubs
11  1 26  26 10   66.7  0.164  0.682  0.009  171.  160.     -6.0  0.0800  0.72  0.24   1.50  314.0  15.0  285.0  2.0   0  0.00  56.  1011.   2 NAD-SFC NoSubs
11  1 26  26 11   98.7  0.131  0.944  0.008  307.  114.     -2.1  0.0800  0.72  0.21   1.00  322.0  15.0  287.2  2.0   0  0.00  50.  1011.   2 NAD-SFC NoSubs
11  1 26  26 12  116.5  0.134  1.147  0.008  467.  118.     -1.9  0.0800  0.72  0.20   1.00  326.0  15.0  289.2  2.0   0  0.00  45.  1010.   2 NAD-SFC NoSubs
11  1 26  26 13  119.5  0.139  1.271  0.009  620.  124.     -2.0  0.0950  0.72  0.20   1.00  346.0  15.0  290.8  2.0   0  0.00  40.  1010.   2 NAD-SFC NoSubs
11  1 26  26 14  107.4  0.179  1.280  0.008  704.  181.     -4.8  0.0960  0.72  0.20   1.50   12.0  15.0  291.6  2.0   0  0.00  39.  1010.   2 NAD-SFC NoSubs
11  1 26  26 15   80.5  0.256  1.189  0.008  751.  310.    -18.7  0.0960  0.72  0.22   2.60   16.0  15.0  291.8  2.0   0  0.00  41.  1009.   2 NAD-SFC NoSubs
11  1 26  26 16   40.5  0.260  0.955  0.008  772.  319.    -39.1  0.0650  0.72  0.28   3.10   30.0  15.0  291.1  2.0   0  0.00  48.  1009.   2 NAD-SFC NoSubs
11  1 26  26 17   -7.7  0.255 -9.000 -9.000 -999.  309.    193.1  0.0650  0.72  0.45   3.60   45.0  15.0  290.0  2.0   0  0.00  53.  1010.   2 NAD-SFC NoSubs
11  1 26  26 18  -24.4  0.227 -9.000 -9.000 -999.  259.     42.9  0.0400  0.72  1.00   3.60   61.0  15.0  288.9  2.0   0  0.00  55.  1010.   2 NAD-SFC NoSubs
11  1 26  26 19   -7.7  0.122 -9.000 -9.000 -999.  107.     21.1  0.0310  0.72  1.00   2.10   94.0  15.0  288.1  2.0   0  0.00  59.  1011.   2 NAD-SFC NoSubs
11  1 26  26 20   -2.2  0.074 -9.000 -9.000 -999.   49.     16.9  0.0240  0.72  1.00   1.00  158.0  15.0  287.0  2.0   0  0.00  63.  1011.   2 NAD-SFC NoSubs
11  1 26  26 21   -2.2  0.074 -9.000 -9.000 -999.   49.     16.9  0.0240  0.72  1.00   1.00  176.0  15.0  285.8  2.0   0  0.00  65.  1012.   2 NAD-SFC NoSubs
11  1 26  26 22   -3.9  0.088 -9.000 -9.000 -999.   63.     15.7  0.0240  0.72  1.00   1.50  156.0  15.0  284.8  2.0   0  0.00  65.  1012.   2 NAD-SFC NoSubs
11  1 26  26 23  -11.3  0.146 -9.000 -9.000 -999.  134.     24.9  0.0240  0.72  1.00   2.60  164.0  15.0  284.1  2.0   0  0.00  64.  1013.   2 NAD-SFC NoSubs
11  1 26  26 24  -16.3  0.177 -9.000 -9.000 -999.  178.     30.6  0.0240  0.72  1.00   3.10  158.0  15.0  283.6  2.0   0  0.00  63.  1013.   2 NAD-SFC NoSubs
11  1 27  27  1  -11.3  0.146 -9.000 -9.000 -999.  134.     24.9  0.0240  0.72  1.00   2.60  151.0  15.0  283.5  2.0   0  0.00  60.  1013.   2 NAD-SFC NoSubs
11  1 27  27  2  -11.8  0.150 -9.000 -9.000 -999.  139.     25.9  0.0280  0.72  1.00   2.60  142.0  15.0  283.4  2.0   0  0.00  57.  1014.   2 NAD-SFC NoSubs
11  1 27  27  3  -17.4  0.185 -9.000 -9.000 -999.  190.     32.6  0.0310  0.72  1.00   3.10  111.0  15.0  283.0  2.0   0  0.00  58.  1014.   2 NAD-SFC NoSubs
11  1 27  27  4  -18.7  0.193 -9.000 -9.000 -999.  203.     34.8  0.0400  0.72  1.00   3.10   81.0  15.0  282.5  2.0   0  0.00  60.  1014.   2 NAD-SFC NoSubs
11  1 27  27  5   -5.6  0.109 -9.000 -9.000 -999.   88.     20.8  0.0960  0.72  1.00   1.50    8.0  15.0  281.8  2.0   0  0.00  65.  1014.   2 NAD-SFC NoSubs
11  1 27  27  6  -16.8  0.189 -9.000 -9.000 -999.  197.     36.2  0.0950  0.72  1.00   2.60  351.0  15.0  281.1  2.0   0  0.00  73.  1014.   2 NAD-SFC NoSubs
11  1 27  27  7  -10.8  0.150 -9.000 -9.000 -999.  139.     28.2  0.0950  0.72  1.00   2.10  347.0  15.0  280.4  2.0   0  0.00  79.  1014.   2 NAD-SFC NoSubs
11  1 27  27  8   -4.9  0.107 -9.000 -9.000 -999.   84.     22.5  0.0960  0.72  0.56   1.50   10.0  15.0  280.2  2.0   0  0.00  80.  1015.   2 NAD-SFC NoSubs
11  1 27  27  9   23.8  0.074  0.347  0.011   63.   48.     -1.5  0.0950  0.72  0.32   0.50  351.0  15.0  282.8  2.0   0  0.00  65.  1015.   2 NAD-SFC NoSubs
11  1 27  27 10   67.6 -9.000 -9.000 -9.000  171. -999. -99999.0  0.0471  0.72  0.24   0.00    0.0  15.0  285.2  2.0   0  0.00  54.  1015.   2 NAD-SFC NoSubs
11  1 27  27 11   99.7 -9.000 -9.000 -9.000  357. -999. -99999.0  0.0471  0.72  0.21   0.00    0.0  15.0  287.5  2.0   0  0.00  47.  1015.   2 NAD-SFC NoSubs
11  1 27  27 12  117.4 -9.000 -9.000 -9.000  534. -999. -99999.0  0.0471  0.72  0.20   0.00    0.0  15.0  289.0  2.0   0  0.00  43.  1014.   2 NAD-SFC NoSubs
11  1 27  27 13  120.3 -9.000 -9.000 -9.000  670. -999. -99999.0  0.0471  0.72  0.20   0.00    0.0  15.0  290.1  2.0   0  0.00  42.  1013.   2 NAD-SFC NoSubs
11  1 27  27 14  108.1  0.090  1.310  0.007  751.   65.     -1.0  0.0960  0.72  0.20   0.50   17.0  15.0  290.8  2.0   0  0.00  41.  1012.   2 NAD-SFC NoSubs
11  1 27  27 15   81.4  0.133  1.221  0.007  807.  116.     -2.6  0.0950  0.72  0.22   1.00  354.0  15.0  291.1  2.0   0  0.00  41.  1012.   2 NAD-SFC NoSubs
11  1 27  27 16   41.6  0.206  0.986  0.007  834.  224.    -18.9  0.0950  0.72  0.28   2.10  336.0  15.0  290.9  2.0   0  0.00  45.  1012.   2 NAD-SFC NoSubs
11  1 27  27 17   -5.1  0.197 -9.000 -9.000 -999.  209.    134.1  0.0950  0.72  0.45   2.60  348.0  15.0  290.1  2.0   0  0.00  49.  1011.   2 NAD-SFC NoSubs
11  1 27  27 18  -10.6  0.150 -9.000 -9.000 -999.  140.     28.8  0.0960  0.72  1.00   2.10    1.0  15.0  288.8  2.0   0  0.00  53.  1011.   2 NAD-SFC NoSubs
11  1 27  27 19   -1.3  0.074 -9.000 -9.000 -999.   51.     29.5  0.0950  0.72  1.00   0.50  356.0  15.0  287.4  2.0   0  0.00  59.  1011.   2 NAD-SFC NoSubs
11  1 27  27 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  286.0  2.0   0  0.00  66.  1011.   2 NAD-SFC NoSubs
11  1 27  27 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  284.8  2.0   0  0.00  72.  1011.   2 NAD-SFC NoSubs
11  1 27  27 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  283.9  2.0   0  0.00  77.  1011.   2 NAD-SFC NoSubs
11  1 27  27 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  283.1  2.0   0  0.00  80.  1011.   2 NAD-SFC NoSubs
11  1 27  27 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  282.5  2.0   0  0.00  82.  1011.   2 NAD-SFC NoSubs
11  1 28  28  1   -1.3  0.075 -9.000 -9.000 -999.   49.     29.8  0.0960  0.72  1.00   0.50    7.0  15.0  282.1  2.0   0  0.00  83.  1011.   2 NAD-SFC NoSubs
11  1 28  28  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  281.6  2.0   0  0.00  84.  1011.   2 NAD-SFC NoSubs
11  1 28  28  3   -1.2  0.074 -9.000 -9.000 -999.   48.     29.3  0.0800  0.72  1.00   0.50  307.0  15.0  281.1  2.0   0  0.00  85.  1011.   2 NAD-SFC NoSubs
11  1 28  28  4   -2.5  0.079 -9.000 -9.000 -999.   54.     18.1  0.0420  0.72  1.00   1.00  294.0  15.0  280.8  2.0   0  0.00  85.  1011.   2 NAD-SFC NoSubs
11  1 28  28  5   -4.5  0.095 -9.000 -9.000 -999.   70.     17.3  0.0420  0.72  1.00   1.50  292.0  15.0  280.4  2.0   0  0.00  83.  1011.   2 NAD-SFC NoSubs
11  1 28  28  6  -13.1  0.161 -9.000 -9.000 -999.  155.     28.6  0.0420  0.72  1.00   2.60  287.0  15.0  280.2  2.0   0  0.00  79.  1011.   2 NAD-SFC NoSubs
11  1 28  28  7  -13.1  0.161 -9.000 -9.000 -999.  155.     28.5  0.0420  0.72  1.00   2.60  286.0  15.0  280.1  2.0   0  0.00  75.  1011.   2 NAD-SFC NoSubs
11  1 28  28  8   -7.5  0.129 -9.000 -9.000 -999.  111.     25.5  0.0420  0.72  0.56   2.10  299.0  15.0  280.1  2.0   0  0.00  71.  1011.   2 NAD-SFC NoSubs
11  1 28  28  9   24.4  0.191  0.355  0.010   66.  201.    -26.0  0.0800  0.72  0.31   2.10  319.0  15.0  282.1  2.0   0  0.00  58.  1012.   2 NAD-SFC NoSubs
11  1 28  28 10   68.1  0.130  0.695  0.010  178.  113.     -2.9  0.0950  0.72  0.23   1.00  334.0  15.0  283.8  2.0   0  0.00  53.  1012.   2 NAD-SFC NoSubs
11  1 28  28 11  100.1  0.086  0.976  0.010  335.   61.     -1.0  0.0800  0.72  0.21   0.50  324.0  15.0  285.6  2.0   0  0.00  48.  1011.   2 NAD-SFC NoSubs
11  1 28  28 12  117.9  0.088  1.146  0.010  460.   63.     -1.0  0.0800  0.72  0.20   0.50  316.0  15.0  287.2  2.0   0  0.00  42.  1010.   2 NAD-SFC NoSubs
11  1 28  28 13  120.8  0.135  1.231  0.010  557.  118.     -1.8  0.0800  0.72  0.20   1.00  328.0  15.0  288.2  2.0   0  0.00  40.  1009.   2 NAD-SFC NoSubs
11  1 28  28 14  108.7  0.137  1.240  0.009  632.  122.     -2.1  0.0950  0.72  0.20   1.00  335.0  15.0  289.0  2.0   0  0.00  39.  1009.   2 NAD-SFC NoSubs
11  1 28  28 15   82.0  0.133  1.159  0.009  683.  116.     -2.6  0.0950  0.72  0.22   1.00  331.0  15.0  289.4  2.0   0  0.00  39.  1008.   2 NAD-SFC NoSubs
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11  1 28  28 16   42.1  0.123  0.940  0.009  708.  103.     -3.9  0.0950  0.72  0.28  1.00  332.0  15.0  289.2  2.0   0  0.00  41.  1007.   2 NAD-SFC NoSubs
11  1 28  28 17   -0.3  0.041 -9.000 -9.000 -999.   25.     19.1  0.0800  0.72  0.44  0.50  301.0  15.0  288.6  2.0   0  0.00  45.  1007.   2 NAD-SFC NoSubs
11  1 28  28 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  287.2  2.0   0  0.00  51.  1007.   2 NAD-SFC NoSubs
11  1 28  28 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  285.9  2.0   0  0.00  57.  1007.   2 NAD-SFC NoSubs
11  1 28  28 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  284.8  2.0   0  0.00  63.  1007.   2 NAD-SFC NoSubs
11  1 28  28 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  283.8  2.0   0  0.00  68.  1007.   2 NAD-SFC NoSubs
11  1 28  28 22   -1.2  0.072 -9.000 -9.000 -999.   46.     28.7  0.0650  0.72  1.00  0.50   41.0  15.0  282.9  2.0   0  0.00  71.  1007.   2 NAD-SFC NoSubs
11  1 28  28 23   -1.3  0.075 -9.000 -9.000 -999.   49.     29.8  0.0960  0.72  1.00  0.50   18.0  15.0  282.2  2.0   0  0.00  73.  1007.   2 NAD-SFC NoSubs
11  1 28  28 24   -0.9  0.065 -9.000 -9.000 -999.   40.     25.9  0.0200  0.72  1.00  0.50  268.0  15.0  281.8  2.0   0  0.00  74.  1007.   2 NAD-SFC NoSubs
11  1 29  29  1   -1.0  0.066 -9.000 -9.000 -999.   41.     26.3  0.0240  0.72  1.00  0.50  167.0  15.0  281.6  2.0   0  0.00  75.  1007.   2 NAD-SFC NoSubs
11  1 29  29  2   -1.0  0.067 -9.000 -9.000 -999.   41.     26.7  0.0280  0.72  1.00  0.50  142.0  15.0  281.2  2.0   0  0.00  76.  1007.   2 NAD-SFC NoSubs
11  1 29  29  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  280.9  2.0   0  0.00  77.  1007.   2 NAD-SFC NoSubs
11  1 29  29  4   -1.2  0.074 -9.000 -9.000 -999.   48.     29.3  0.0800  0.72  1.00  0.50  301.0  15.0  280.5  2.0   0  0.00  79.  1007.   2 NAD-SFC NoSubs
11  1 29  29  5   -2.5  0.079 -9.000 -9.000 -999.   54.     18.1  0.0420  0.72  1.00  1.00  298.0  15.0  280.1  2.0   0  0.00  80.  1007.   2 NAD-SFC NoSubs
11  1 29  29  6   -2.9  0.085 -9.000 -9.000 -999.   60.     19.6  0.0800  0.72  1.00  1.00  304.0  15.0  279.8  2.0   0  0.00  81.  1008.   2 NAD-SFC NoSubs
11  1 29  29  7   -2.9  0.085 -9.000 -9.000 -999.   60.     19.6  0.0800  0.72  1.00  1.00  323.0  15.0  279.5  2.0   0  0.00  82.  1008.   2 NAD-SFC NoSubs
11  1 29  29  8   -1.0  0.068 -9.000 -9.000 -999.   42.     27.4  0.0950  0.72  0.55  0.50  354.0  15.0  279.5  2.0   0  0.00  82.  1008.   2 NAD-SFC NoSubs
11  1 29  29  9   25.1  0.074  0.372  0.010   74.   49.     -1.5  0.0960  0.72  0.31  0.50    3.0  15.0  281.8  2.0   0  0.00  70.  1009.   2 NAD-SFC NoSubs
11  1 29  29 10   68.8 -9.000 -9.000 -9.000  226. -999. -99999.0  0.0471  0.72  0.23  0.00    0.0  15.0  283.0  2.0   0  0.00  66.  1009.   2 NAD-SFC NoSubs
11  1 29  29 11  100.7  0.076  1.046  0.010  409.   51.     -1.0  0.0420  0.72  0.21  0.50  283.0  15.0  284.2  2.0   0  0.00  62.  1009.   2 NAD-SFC NoSubs
11  1 29  29 12  118.4  0.120  1.194  0.010  517.  100.     -1.3  0.0420  0.72  0.20  1.00  290.0  15.0  285.2  2.0   0  0.00  56.  1008.   2 NAD-SFC NoSubs
11  1 29  29 13  121.2  0.175  1.270  0.009  608.  176.     -4.0  0.0800  0.72  0.20  1.50  303.0  15.0  286.0  2.0   0  0.00  52.  1008.   2 NAD-SFC NoSubs
11  1 29  29 14  109.0  0.173  1.272  0.009  679.  173.     -4.3  0.0800  0.72  0.20  1.50  321.0  15.0  286.4  2.0   0  0.00  51.  1008.   2 NAD-SFC NoSubs
11  1 29  29 15   82.3  0.173  1.185  0.009  728.  173.     -5.7  0.0950  0.72  0.22  1.50  335.0  15.0  286.5  2.0   0  0.00  51.  1008.   2 NAD-SFC NoSubs
11  1 29  29 16   42.4  0.079  0.960  0.009  752.   58.     -1.1  0.0950  0.72  0.27  0.50  344.0  15.0  286.5  2.0   0  0.00  54.  1009.   2 NAD-SFC NoSubs
11  1 29  29 17   -0.2  0.036 -9.000 -9.000 -999.   17.     16.7  0.0310  0.72  0.44  0.50   90.0  15.0  286.0  2.0   0  0.00  57.  1009.   2 NAD-SFC NoSubs
11  1 29  29 18   -1.0  0.066 -9.000 -9.000 -999.   41.     26.5  0.0280  0.72  1.00  0.50  127.0  15.0  285.4  2.0   0  0.00  61.  1009.   2 NAD-SFC NoSubs
11  1 29  29 19   -2.2  0.074 -9.000 -9.000 -999.   48.     16.7  0.0220  0.72  1.00  1.00  183.0  15.0  285.0  2.0   0  0.00  64.  1010.   2 NAD-SFC NoSubs
11  1 29  29 20   -3.8  0.087 -9.000 -9.000 -999.   62.     15.5  0.0220  0.72  1.00  1.50  187.0  15.0  284.8  2.0   0  0.00  65.  1010.   2 NAD-SFC NoSubs
11  1 29  29 21   -7.0  0.115 -9.000 -9.000 -999.   94.     19.6  0.0220  0.72  1.00  2.10  199.0  15.0  284.2  2.0   0  0.00  71.  1011.   3 NAD-SFC NoSubs
11  1 29  29 22   -7.0  0.115 -9.000 -9.000 -999.   94.     19.5  0.0220  0.72  1.00  2.10  202.0  15.0  283.6  2.0   0  0.00  79.  1011.   3 NAD-SFC NoSubs
11  1 29  29 23   -8.1  0.148 -9.000 -9.000 -999.  137.     36.0  0.0220  0.72  1.00  2.60  194.0  15.0  283.0  2.0   0  0.00  86.  1011.  10 NAD-SFC NoSubs
11  1 29  29 24  -13.7  0.179 -9.000 -9.000 -999.  182.     37.9  0.0240  0.72  1.00  3.10  168.0  15.0  282.9  2.0   0  0.00  89.  1011.   8 NAD-SFC NoSubs
11  1 30  30  1  -10.4  0.152 -9.000 -9.000 -999.  142.     30.1  0.0280  0.72  1.00  2.60  145.0  15.0  282.8  2.0   0  0.25  90.  1011.   7 NAD-SFC NoSubs
11  1 30  30  2  -10.4  0.185 -9.000 -9.000 -999.  192.     55.0  0.0280  0.72  1.00  3.10  122.0  15.0  282.6  2.0   0  0.25  92.  1011.  10 NAD-SFC NoSubs
11  1 30  30  3  -12.2  0.217 -9.000 -9.000 -999.  242.     75.2  0.0280  0.72  1.00  3.60  127.0  15.0  282.5  2.0   0  0.25  93.  1011.  10 NAD-SFC NoSubs
11  1 30  30  4  -18.3  0.215 -9.000 -9.000 -999.  239.     48.8  0.0280  0.72  1.00  3.60  133.0  15.0  282.5  2.0   0  0.25  93.  1011.   7 NAD-SFC NoSubs
11  1 30  30  5  -21.1  0.214 -9.000 -9.000 -999.  237.     41.8  0.0280  0.72  1.00  3.60  140.0  15.0  282.5  2.0   0  0.00  93.  1011.   5 NAD-SFC NoSubs
11  1 30  30  6  -22.1  0.213 -9.000 -9.000 -999.  237.     39.6  0.0280  0.72  1.00  3.60  138.0  15.0  282.4  2.0   0  0.00  94.  1010.   4 NAD-SFC NoSubs
11  1 30  30  7  -22.1  0.213 -9.000 -9.000 -999.  237.     39.6  0.0280  0.72  1.00  3.60  142.0  15.0  282.2  2.0   0  0.00  94.  1010.   4 NAD-SFC NoSubs
11  1 30  30  8  -13.6  0.184 -9.000 -9.000 -999.  190.     41.2  0.0280  0.72  0.55  3.10  145.0  15.0  282.6  2.0   0  0.00  92.  1010.   4 NAD-SFC NoSubs
11  1 30  30  9   27.5  0.163  0.495  0.005  159.  158.    -14.2  0.0280  0.72  0.31  2.10  137.0  15.0  283.4  2.0   0  0.51  90.  1009.   6 NAD-SFC NoSubs
11  1 30  30 10   14.1  0.089  0.435  0.005  210.   65.     -4.5  0.0280  0.72  0.23  1.00  132.0  15.0  284.4  2.0   0  1.02  85.  1009.  10 NAD-SFC NoSubs
11  1 30  30 11   22.1  0.163  0.549  0.005  268.  158.    -17.6  0.0310  0.72  0.21  2.10  102.0  15.0  284.9  2.0   0  1.52  84.  1008.  10 NAD-SFC NoSubs
11  1 30  30 12   26.5  0.234  0.621  0.005  324.  273.    -43.6  0.0400  0.72  0.20  3.10   89.0  15.0  284.9  2.0   0  1.02  86.  1007.  10 NAD-SFC NoSubs
11  1 30  30 13   27.2  0.226  0.656  0.005  372.  258.    -38.0  0.0310  0.72  0.20  3.10   94.0  15.0  285.1  2.0   0  1.02  87.  1007.  10 NAD-SFC NoSubs
11  1 30  30 14  100.5  0.146  1.166  0.005  567.  136.     -2.8  0.0310  0.72  0.20  1.50  100.0  15.0  285.8  2.0   0  1.02  81.  1006.   6 NAD-SFC NoSubs
11  1 30  30 15   17.8  0.266  0.667  0.005  597.  329.    -94.4  0.0950  0.72  0.22  3.10  348.0  15.0  286.4  2.0   0  1.27  76.  1006.  10 NAD-SFC NoSubs
11  1 30  30 16   38.5  0.277  0.889  0.005  656.  350.    -49.6  0.0950  0.72  0.27  3.10  333.0  15.0  286.9  2.0   0  1.02  74.  1006.   7 NAD-SFC NoSubs
11  1 30  30 17    1.6  0.326  0.306  0.005  656.  446.  -1979.0  0.0950  0.72  0.43  4.10  342.0  15.0  285.9  2.0   0  0.25  79.  1007.   7 NAD-SFC NoSubs
11  1 30  30 18  -21.0  0.230 -9.000 -9.000 -999.  269.     52.0  0.0950  0.72  1.00  3.10  351.0  15.0  285.0  2.0   0  0.00  83.  1008.   6 NAD-SFC NoSubs
11  1 30  30 19  -15.3  0.190 -9.000 -9.000 -999.  200.     40.5  0.0950  0.72  1.00  2.60  354.0  15.0  284.4  2.0   0  0.00  85.  1009.   6 NAD-SFC NoSubs
11  1 30  30 20   -9.8  0.151 -9.000 -9.000 -999.  141.     31.5  0.0950  0.72  1.00  2.10  343.0  15.0  283.8  2.0   0  0.00  87.  1009.   6 NAD-SFC NoSubs
11  1 30  30 21   -2.3  0.078 -9.000 -9.000 -999.   54.     18.9  0.0800  0.72  1.00  1.00  308.0  15.0  283.2  2.0   0  0.00  88.  1010.   7 NAD-SFC NoSubs
11  1 30  30 22   -2.3  0.078 -9.000 -9.000 -999.   53.     18.9  0.0800  0.72  1.00  1.00  301.0  15.0  282.9  2.0   0  0.00  89.  1011.   7 NAD-SFC NoSubs
11  1 30  30 23   -2.5  0.080 -9.000 -9.000 -999.   55.     19.0  0.0800  0.72  1.00  1.00  301.0  15.0  282.2  2.0   0  0.00  91.  1012.   6 NAD-SFC NoSubs
11  1 30  30 24   -2.3  0.077 -9.000 -9.000 -999.   52.     17.8  0.0420  0.72  1.00  1.00  298.0  15.0  281.8  2.0   0  0.00  93.  1012.   4 NAD-SFC NoSubs
11  1 31  31  1   -4.4  0.095 -9.000 -9.000 -999.   70.     17.4  0.0420  0.72  1.00  1.50  284.0  15.0  281.2  2.0   0  0.00  95.  1012.   3 NAD-SFC NoSubs
11  1 31  31  2   -6.9  0.113 -9.000 -9.000 -999.   92.     19.0  0.0200  0.72  1.00  2.10  268.0  15.0  280.8  2.0   0  0.00  96.  1013.   3 NAD-SFC NoSubs
11  1 31  31  3   -8.3  0.128 -9.000 -9.000 -999.  110.     22.7  0.0420  0.72  1.00  2.10  272.0  15.0  280.2  2.0   0  0.00  95.  1013.   3 NAD-SFC NoSubs
11  1 31  31  4  -10.8  0.142 -9.000 -9.000 -999.  128.     24.0  0.0200  0.72  1.00  2.60  261.0  15.0  279.9  2.0   0  0.00  94.  1014.   3 NAD-SFC NoSubs
11  1 31  31  5  -10.9  0.142 -9.000 -9.000 -999.  128.     23.6  0.0200  0.72  1.00  2.60  263.0  15.0  279.1  2.0   0  0.00  94.  1014.   2 NAD-SFC NoSubs
11  1 31  31  6   -7.1  0.113 -9.000 -9.000 -999.   92.     18.7  0.0200  0.72  1.00  2.10  267.0  15.0  278.2  2.0   0  0.00  94.  1015.   2 NAD-SFC NoSubs
11  1 31  31  7   -2.9  0.086 -9.000 -9.000 -999.   60.     19.6  0.0800  0.72  1.00  1.00  315.0  15.0  277.5  2.0   0  0.00  95.  1015.   2 NAD-SFC NoSubs
11  1 31  31  8   -2.4  0.080 -9.000 -9.000 -999.   54.     19.4  0.0950  0.72  0.54  1.00  332.0  15.0  277.0  2.0   0  0.00  97.  1015.   2 NAD-SFC NoSubs
11  1 31  31  9   26.1  0.154  0.441  0.005  119.  145.    -12.7  0.0950  0.72  0.31  1.50  346.0  15.0  278.4  2.0   0  0.00  90.  1015.   2 NAD-SFC NoSubs
11  1 31  31 10   70.2  0.130  0.852  0.005  319.  113.     -2.8  0.0950  0.72  0.23  1.00  354.0  15.0  280.5  2.0   0  0.00  78.  1015.   2 NAD-SFC NoSubs
11  1 31  31 11  102.3  0.086  1.140  0.005  525.   61.     -1.0  0.0800  0.72  0.21  0.50  308.0  15.0  282.2  2.0   0  0.00  68.  1015.   2 NAD-SFC NoSubs
11  1 31  31 12  120.1  0.120  1.329  0.007  708.  100.     -1.3  0.0420  0.72  0.20  1.00  296.0  15.0  283.8  2.0   0  0.00  62.  1014.   2 NAD-SFC NoSubs
11  1 31  31 13  123.1  0.120  1.411  0.007  826.  100.     -1.3  0.0420  0.72  0.20  1.00  297.0  15.0  284.9  2.0   0  0.00  56.  1013.   2 NAD-SFC NoSubs
11  1 31  31 14  111.1  0.133  1.414  0.007  920.  117.     -1.9  0.0800  0.72  0.20  1.00  324.0  15.0  285.8  2.0   0  0.00  53.  1012.   2 NAD-SFC NoSubs
11  1 31  31 15   84.5  0.133  1.319  0.008  981.  117.     -2.5  0.0950  0.72  0.22  1.00  339.0  15.0  286.1  2.0   0  0.00  52.  1012.   2 NAD-SFC NoSubs
11  1 31  31 16   44.5  0.163  1.074  0.008 1005.  157.     -8.7  0.0950  0.72  0.27  1.50  346.0  15.0  286.1  2.0   0  0.00  52.  1012.   2 NAD-SFC NoSubs
11  1 31  31 17   -1.7  0.112 -9.000 -9.000 -999.   91.     76.2  0.0950  0.72  0.43  1.50  358.0  15.0  285.6  2.0   0  0.00  56.  1012.   2 NAD-SFC NoSubs
11  1 31  31 18   -1.3  0.075 -9.000 -9.000 -999.   49.     29.6  0.0950  0.72  1.00  0.50  339.0  15.0  284.8  2.0   0  0.00  61.  1012.   2 NAD-SFC NoSubs
11  1 31  31 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  283.4  2.0   0  0.00  67.  1012.   2 NAD-SFC NoSubs
11  1 31  31 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.2  2.0   0  0.00  73.  1012.   2 NAD-SFC NoSubs
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11  1 31  31 21   -1.0  0.067 -9.000 -9.000 -999.   41.     26.7  0.0280  0.72  1.00  0.50  141.0  15.0  281.2  2.0   0  0.00   79.  1012.    2 NAD-SFC NoSubs
11  1 31  31 22   -2.3  0.076 -9.000 -9.000 -999.   50.     17.2  0.0280  0.72  1.00  1.00  138.0  15.0  280.4  2.0   0  0.00   82.  1012.    2 NAD-SFC NoSubs
11  1 31  31 23   -4.1  0.090 -9.000 -9.000 -999.   65.     16.1  0.0280  0.72  1.00  1.50  136.0  15.0  279.8  2.0   0  0.00   84.  1013.    2 NAD-SFC NoSubs
11  1 31  31 24   -4.1  0.090 -9.000 -9.000 -999.   65.     16.1  0.0280  0.72  1.00  1.50  133.0  15.0  279.4  2.0   0  0.00   85.  1012.    2 NAD-SFC NoSubs
11  2  1  32  1   -2.2  0.075 -9.000 -9.000 -999.   49.     17.0  0.0240  0.72  1.00  1.00  153.0  15.0  279.0  2.0   0  0.00   84.  1012.    2 NAD-SFC NoSubs
11  2  1  32  2   -2.3  0.075 -9.000 -9.000 -999.   49.     17.0  0.0240  0.72  1.00  1.00  178.0  15.0  278.8  2.0   0  0.00   83.  1012.    2 NAD-SFC NoSubs
11  2  1  32  3   -2.2  0.075 -9.000 -9.000 -999.   49.     16.8  0.0220  0.72  1.00  1.00  227.0  15.0  278.2  2.0   0  0.00   83.  1012.    2 NAD-SFC NoSubs
11  2  1  32  4   -2.2  0.074 -9.000 -9.000 -999.   48.     16.7  0.0200  0.72  1.00  1.00  259.0  15.0  277.9  2.0   0  0.00   84.  1012.    2 NAD-SFC NoSubs
11  2  1  32  5   -4.5  0.095 -9.000 -9.000 -999.   71.     17.3  0.0420  0.72  1.00  1.50  277.0  15.0  277.6  2.0   0  0.00   85.  1012.    2 NAD-SFC NoSubs
11  2  1  32  6   -2.5  0.080 -9.000 -9.000 -999.   54.     18.1  0.0420  0.72  1.00  1.00  276.0  15.0  277.2  2.0   0  0.00   87.  1012.    2 NAD-SFC NoSubs
11  2  1  32  7   -2.2  0.074 -9.000 -9.000 -999.   48.     16.7  0.0200  0.72  1.00  1.00  259.0  15.0  276.8  2.0   0  0.00   89.  1012.    2 NAD-SFC NoSubs
11  2  1  32  8   -0.7  0.058 -9.000 -9.000 -999.   33.     23.5  0.0220  0.72  0.54  0.50  226.0  15.0  276.8  2.0   0  0.00   89.  1012.    2 NAD-SFC NoSubs
11  2  1  32  9   27.1  0.065  0.401  0.009   86.   39.     -1.0  0.0420  0.72  0.31  0.50  280.0  15.0  279.2  2.0   0  0.00   79.  1012.    2 NAD-SFC NoSubs
11  2  1  32 10   71.3 -9.000 -9.000 -9.000  222. -999. -99999.0  0.0471  0.72  0.23  0.00    0.0  15.0  281.2  2.0   0  0.00   71.  1012.    2 NAD-SFC NoSubs
11  2  1  32 11  103.5 -9.000 -9.000 -9.000  383. -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0  283.1  2.0   0  0.00   61.  1011.    2 NAD-SFC NoSubs
11  2  1  32 12  121.4  0.078  1.253  0.007  585.   53.     -1.0  0.0420  0.72  0.20  0.50  276.0  15.0  284.5  2.0   0  0.00   54.  1010.    2 NAD-SFC NoSubs
11  2  1  32 13  124.4  0.089  1.348  0.008  710.   63.     -1.0  0.0800  0.72  0.20  0.50  304.0  15.0  285.6  2.0   0  0.00   48.  1010.    2 NAD-SFC NoSubs
11  2  1  32 14  112.4  0.133  1.350  0.008  788.  117.     -1.9  0.0800  0.72  0.20  1.00  309.0  15.0  286.4  2.0   0  0.00   45.  1009.    2 NAD-SFC NoSubs
11  2  1  32 15   85.8  0.169  1.261  0.008  843.  166.     -5.0  0.0800  0.72  0.22  1.50  326.0  15.0  286.8  2.0   0  0.00   43.  1009.    2 NAD-SFC NoSubs
11  2  1  32 16   45.9  0.158  1.035  0.008  870.  151.     -7.8  0.0800  0.72  0.27  1.50  326.0  15.0  286.8  2.0   0  0.00   44.  1009.    2 NAD-SFC NoSubs
11  2  1  32 17   -1.1  0.113 -9.000 -9.000 -999.   92.    123.2  0.0950  0.72  0.42  1.50  348.0  15.0  286.1  2.0   0  0.00   48.  1009.    2 NAD-SFC NoSubs
11  2  1  32 18   -1.3  0.075 -9.000 -9.000 -999.   49.     29.7  0.0960  0.72  1.00  0.50   22.0  15.0  285.0  2.0   0  0.00   53.  1010.    2 NAD-SFC NoSubs
11  2  1  32 19   -1.1  0.069 -9.000 -9.000 -999.   43.     27.4  0.0400  0.72  1.00  0.50   86.0  15.0  283.6  2.0   0  0.00   59.  1010.    2 NAD-SFC NoSubs
11  2  1  32 20   -2.3  0.076 -9.000 -9.000 -999.   50.     17.2  0.0280  0.72  1.00  1.00  149.0  15.0  282.2  2.0   0  0.00   66.  1011.    2 NAD-SFC NoSubs
11  2  1  32 21  -16.0  0.174 -9.000 -9.000 -999.  175.     29.9  0.0220  0.72  1.00  3.10  195.0  15.0  281.8  2.0   0  0.00   70.  1011.    2 NAD-SFC NoSubs
11  2  1  32 22  -29.5  0.265 -9.000 -9.000 -999.  328.     57.1  0.0220  0.72  1.00  4.60  222.0  15.0  281.0  2.0   0  0.00   70.  1012.    2 NAD-SFC NoSubs
11  2  1  32 23  -26.2  0.235 -9.000 -9.000 -999.  274.     44.7  0.0220  0.72  1.00  4.10  221.0  15.0  279.9  2.0   0  0.00   63.  1012.    2 NAD-SFC NoSubs
11  2  1  32 24  -26.3  0.235 -9.000 -9.000 -999.  273.     44.5  0.0220  0.72  1.00  4.10  222.0  15.0  278.9  2.0   0  0.00   54.  1013.    2 NAD-SFC NoSubs
11  2  2  33  1  -26.4  0.235 -9.000 -9.000 -999.  273.     44.4  0.0220  0.72  1.00  4.10  222.0  15.0  278.1  2.0   0  0.00   50.  1013.    2 NAD-SFC NoSubs
11  2  2  33  2  -26.5  0.235 -9.000 -9.000 -999.  273.     44.3  0.0220  0.72  1.00  4.10  235.0  15.0  277.4  2.0   0  0.00   49.  1014.    2 NAD-SFC NoSubs
11  2  2  33  3  -26.2  0.231 -9.000 -9.000 -999.  267.     42.8  0.0200  0.72  1.00  4.10  243.0  15.0  276.8  2.0   0  0.00   48.  1015.    2 NAD-SFC NoSubs
11  2  2  33  4  -26.2  0.231 -9.000 -9.000 -999.  267.     42.8  0.0200  0.72  1.00  4.10  245.0  15.0  276.2  2.0   0  0.00   46.  1015.    2 NAD-SFC NoSubs
11  2  2  33  5  -26.7  0.235 -9.000 -9.000 -999.  273.     44.0  0.0220  0.72  1.00  4.10  239.0  15.0  275.9  2.0   0  0.00   45.  1016.    2 NAD-SFC NoSubs
11  2  2  33  6  -15.9  0.171 -9.000 -9.000 -999.  172.     28.8  0.0200  0.72  1.00  3.10  243.0  15.0  275.6  2.0   0  0.00   43.  1017.    2 NAD-SFC NoSubs
11  2  2  33  7  -11.3  0.144 -9.000 -9.000 -999.  131.     24.0  0.0220  0.72  1.00  2.60  226.0  15.0  275.4  2.0   0  0.00   43.  1017.    2 NAD-SFC NoSubs
11  2  2  33  8   -3.2  0.084 -9.000 -9.000 -999.   59.     16.5  0.0220  0.72  0.53  1.50  206.0  15.0  275.4  2.0   0  0.00   44.  1018.    2 NAD-SFC NoSubs
11  2  2  33  9   27.8  0.158  0.386  0.006   75.  150.    -12.8  0.0220  0.72  0.30  2.10  185.0  15.0  278.2  2.0   0  0.00   35.  1019.    2 NAD-SFC NoSubs
11  2  2  33 10   72.1  0.101  0.713  0.005  183.   78.     -1.3  0.0220  0.72  0.23  1.00  196.0  15.0  280.5  2.0   0  0.00   30.  1019.    2 NAD-SFC NoSubs
11  2  2  33 11  104.5  0.104  1.025  0.005  374.   81.     -1.0  0.0200  0.72  0.20  1.00  251.0  15.0  282.8  2.0   0  0.00   25.  1019.    2 NAD-SFC NoSubs
11  2  2  33 12  122.4  0.157  1.299  0.007  651.  149.     -2.9  0.0420  0.72  0.20  1.50  276.0  15.0  284.1  2.0   0  0.00   23.  1019.    2 NAD-SFC NoSubs
11  2  2  33 13  125.4  0.176  1.387  0.007  774.  177.     -3.9  0.0800  0.72  0.19  1.50  303.0  15.0  285.1  2.0   0  0.00   22.  1019.    2 NAD-SFC NoSubs
11  2  2  33 14  113.4  0.174  1.394  0.008  869.  174.     -4.2  0.0800  0.72  0.20  1.50  326.0  15.0  285.8  2.0   0  0.00   22.  1019.    2 NAD-SFC NoSubs
11  2  2  33 15   86.8  0.220  1.306  0.008  935.  247.    -11.1  0.0950  0.72  0.22  2.10  352.0  15.0  285.9  2.0   0  0.00   22.  1019.    2 NAD-SFC NoSubs
11  2  2  33 16   46.7  0.245  1.075  0.007  968.  291.    -28.6  0.0960  0.72  0.27  2.60   10.0  15.0  285.5  2.0   0  0.00   28.  1019.    2 NAD-SFC NoSubs
11  2  2  33 17   -1.9  0.283 -9.000 -9.000 -999.  362.   1087.7  0.0960  0.72  0.41  3.60   28.0  15.0  284.4  2.0   0  0.00   34.  1019.    2 NAD-SFC NoSubs
11  2  2  33 18  -21.5  0.211 -9.000 -9.000 -999.  235.     39.8  0.0650  0.72  1.00  3.10   54.0  15.0  283.2  2.0   0  0.00   36.  1020.    2 NAD-SFC NoSubs
11  2  2  33 19   -4.4  0.094 -9.000 -9.000 -999.   79.     17.2  0.0400  0.72  1.00  1.50   78.0  15.0  282.0  2.0   0  0.00   40.  1020.    2 NAD-SFC NoSubs
11  2  2  33 20   -1.0  0.066 -9.000 -9.000 -999.   40.     26.1  0.0220  0.72  1.00  0.50  217.0  15.0  280.5  2.0   0  0.00   47.  1021.    2 NAD-SFC NoSubs
11  2  2  33 21   -3.9  0.086 -9.000 -9.000 -999.   61.     15.2  0.0200  0.72  1.00  1.50  243.0  15.0  279.6  2.0   0  0.00   52.  1021.    2 NAD-SFC NoSubs
11  2  2  33 22   -4.5  0.095 -9.000 -9.000 -999.   70.     17.3  0.0420  0.72  1.00  1.50  270.0  15.0  279.0  2.0   0  0.00   53.  1022.    2 NAD-SFC NoSubs
11  2  2  33 23   -2.2  0.074 -9.000 -9.000 -999.   48.     16.7  0.0200  0.72  1.00  1.00  269.0  15.0  278.2  2.0   0  0.00   55.  1023.    2 NAD-SFC NoSubs
11  2  2  33 24   -1.0  0.065 -9.000 -9.000 -999.   40.     26.0  0.0200  0.72  1.00  0.50  263.0  15.0  277.8  2.0   0  0.00   57.  1023.    2 NAD-SFC NoSubs
11  2  3  34  1   -1.1  0.070 -9.000 -9.000 -999.   44.     27.8  0.0420  0.72  1.00  0.50  281.0  15.0  277.1  2.0   0  0.00   58.  1023.    2 NAD-SFC NoSubs
11  2  3  34  2   -1.1  0.070 -9.000 -9.000 -999.   44.     27.8  0.0420  0.72  1.00  0.50  295.0  15.0  276.5  2.0   0  0.00   58.  1023.    2 NAD-SFC NoSubs
11  2  3  34  3   -1.3  0.074 -9.000 -9.000 -999.   49.     29.5  0.0800  0.72  1.00  0.50  326.0  15.0  276.0  2.0   0  0.00   59.  1023.    2 NAD-SFC NoSubs
11  2  3  34  4   -1.3  0.076 -9.000 -9.000 -999.   50.     30.0  0.0960  0.72  1.00  0.50    8.0  15.0  275.5  2.0   0  0.00   59.  1023.    2 NAD-SFC NoSubs
11  2  3  34  5   -1.3  0.076 -9.000 -9.000 -999.   50.     30.0  0.0960  0.72  1.00  0.50    6.0  15.0  275.0  2.0   0  0.00   60.  1023.    2 NAD-SFC NoSubs
11  2  3  34  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  274.6  2.0   0  0.00   61.  1024.    2 NAD-SFC NoSubs
11  2  3  34  7   -2.3  0.075 -9.000 -9.000 -999.   49.     16.9  0.0220  0.72  1.00  1.00  220.0  15.0  274.2  2.0   0  0.00   60.  1024.    2 NAD-SFC NoSubs
11  2  3  34  8   -3.2  0.083 -9.000 -9.000 -999.   58.     16.6  0.0220  0.72  0.53  1.50  222.0  15.0  274.4  2.0   0  0.00   58.  1024.    2 NAD-SFC NoSubs
11  2  3  34  9   28.6  0.121  0.377  0.007   68.  101.     -5.6  0.0200  0.72  0.30  1.50  244.0  15.0  277.2  2.0   0  0.00   47.  1024.    2 NAD-SFC NoSubs
11  2  3  34 10   73.0  0.100  0.772  0.005  230.   76.     -1.3  0.0200  0.72  0.23  1.00  243.0  15.0  279.4  2.0   0  0.00   42.  1024.    2 NAD-SFC NoSubs
11  2  3  34 11  105.3  0.069  1.056  0.005  408.   43.     -1.0  0.0220  0.72  0.20  0.50  235.0  15.0  281.4  2.0   0  0.00   35.  1023.    2 NAD-SFC NoSubs
11  2  3  34 12  123.2 -9.000 -9.000 -9.000  640. -999. -99999.0  0.0471  0.72  0.20  0.00    0.0  15.0  282.8  2.0   0  0.00   33.  1023.    2 NAD-SFC NoSubs
11  2  3  34 13  126.3 -9.000 -9.000 -9.000  784. -999. -99999.0  0.0471  0.72  0.19  0.00    0.0  15.0  283.9  2.0   0  0.00   30.  1022.    2 NAD-SFC NoSubs
11  2  3  34 14  114.3 -9.000 -9.000 -9.000  892. -999. -99999.0  0.0471  0.72  0.20  0.00    0.0  15.0  284.8  2.0   0  0.00   29.  1021.    2 NAD-SFC NoSubs
11  2  3  34 15   87.7  0.087  1.326  0.008  968.   62.     -1.0  0.0950  0.72  0.22  0.50  332.0  15.0  285.1  2.0   0  0.00   29.  1020.    2 NAD-SFC NoSubs
11  2  3  34 16   47.7  0.124  1.093  0.008  996.  105.     -3.7  0.0960  0.72  0.26  1.00   17.0  15.0  285.1  2.0   0  0.00   30.  1020.    2 NAD-SFC NoSubs
11  2  3  34 17   -0.1  0.071 -9.000 -9.000 -999.   46.    273.6  0.0650  0.72  0.41  1.00   37.0  15.0  284.6  2.0   0  0.00   35.  1020.    2 NAD-SFC NoSubs
11  2  3  34 18   -1.2  0.072 -9.000 -9.000 -999.   46.     28.7  0.0650  0.72  1.00  0.50   55.0  15.0  283.2  2.0   0  0.00   41.  1020.    2 NAD-SFC NoSubs
11  2  3  34 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  281.9  2.0   0  0.00   47.  1020.    2 NAD-SFC NoSubs
11  2  3  34 20   -1.0  0.067 -9.000 -9.000 -999.   42.     26.7  0.0280  0.72  1.00  0.50  132.0  15.0  280.6  2.0   0  0.00   53.  1020.    2 NAD-SFC NoSubs
11  2  3  34 21   -2.3  0.076 -9.000 -9.000 -999.   50.     17.3  0.0280  0.72  1.00  1.00  123.0  15.0  279.5  2.0   0  0.00   58.  1020.    2 NAD-SFC NoSubs
11  2  3  34 22   -4.2  0.091 -9.000 -9.000 -999.   66.     16.4  0.0310  0.72  1.00  1.50  108.0  15.0  278.6  2.0   0  0.00   62.  1020.    2 NAD-SFC NoSubs
11  2  3  34 23   -7.9  0.122 -9.000 -9.000 -999.  102.     20.7  0.0310  0.72  1.00  2.10  113.0  15.0  277.9  2.0   0  0.00   64.  1020.    2 NAD-SFC NoSubs
11  2  3  34 24  -11.9  0.150 -9.000 -9.000 -999.  139.     25.6  0.0280  0.72  1.00  2.60  125.0  15.0  277.4  2.0   0  0.00   65.  1020.    2 NAD-SFC NoSubs
11  2  4  35  1   -7.9  0.122 -9.000 -9.000 -999.  102.     20.7  0.0310  0.72  1.00  2.10  117.0  15.0  277.1  2.0   0  0.00   64.  1020.    2 NAD-SFC NoSubs
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11  2  4  35  2   -2.4  0.077 -9.000 -9.000 -999.   52.     17.5  0.0310  0.72  1.00  1.00  107.0  15.0  276.8  2.0   0  0.00  65.  1020.   2 NAD-SFC NoSubs
11  2  4  35  3   -1.1  0.070 -9.000 -9.000 -999.   44.     27.7  0.0400  0.72  1.00  0.50   76.0  15.0  276.0  2.0   0  0.00  67.  1020.   2 NAD-SFC NoSubs
11  2  4  35  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  275.5  2.0   0  0.00  69.  1020.   2 NAD-SFC NoSubs
11  2  4  35  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  275.2  2.0   0  0.00  69.  1020.   2 NAD-SFC NoSubs
11  2  4  35  6   -1.3  0.074 -9.000 -9.000 -999.   49.     29.5  0.0800  0.72  1.00  0.50  318.0  15.0  275.0  2.0   0  0.00  69.  1020.   2 NAD-SFC NoSubs
11  2  4  35  7   -1.3  0.074 -9.000 -9.000 -999.   49.     29.6  0.0800  0.72  1.00  0.50  317.0  15.0  274.8  2.0   0  0.00  69.  1019.   2 NAD-SFC NoSubs
11  2  4  35  8   -0.9  0.064 -9.000 -9.000 -999.   39.     26.0  0.0800  0.72  0.52  0.50  319.0  15.0  275.0  2.0   0  0.00  69.  1019.   2 NAD-SFC NoSubs
11  2  4  35  9   29.6 -9.000 -9.000 -9.000   64. -999. -99999.0  0.0471  0.72  0.30  0.00    0.0  15.0  278.0  2.0   0  0.00  57.  1019.   2 NAD-SFC NoSubs
11  2  4  35 10   74.2 -9.000 -9.000 -9.000  178. -999. -99999.0  0.0471  0.72  0.23  0.00    0.0  15.0  280.5  2.0   0  0.00  51.  1018.   2 NAD-SFC NoSubs
11  2  4  35 11  106.6 -9.000 -9.000 -9.000  337. -999. -99999.0  0.0471  0.72  0.20  0.00    0.0  15.0  282.8  2.0   0  0.00  46.  1017.   2 NAD-SFC NoSubs
11  2  4  35 12  124.8 -9.000 -9.000 -9.000  508. -999. -99999.0  0.0471  0.72  0.20  0.00    0.0  15.0  284.8  2.0   0  0.00  37.  1016.   2 NAD-SFC NoSubs
11  2  4  35 13  127.9 -9.000 -9.000 -9.000  657. -999. -99999.0  0.0471  0.72  0.19  0.00    0.0  15.0  285.9  2.0   0  0.00  35.  1015.   2 NAD-SFC NoSubs
11  2  4  35 14  116.1  0.088  1.317  0.011  712.   62.     -1.0  0.0800  0.72  0.20  0.50  317.0  15.0  286.9  2.0   0  0.00  34.  1014.   2 NAD-SFC NoSubs
11  2  4  35 15   89.6  0.134  1.230  0.011  751.  118.     -2.4  0.0950  0.72  0.22  1.00  335.0  15.0  287.4  2.0   0  0.00  35.  1014.   2 NAD-SFC NoSubs
11  2  4  35 16   50.1  0.209  1.024  0.010  774.  229.    -16.5  0.0950  0.72  0.26  2.10  342.0  15.0  289.2  2.0   0  0.00  42.  1013.   2 NAD-SFC NoSubs
11  2  4  35 17    1.9  0.128  0.342  0.010  775.  112.   -102.1  0.0950  0.72  0.40  1.50  346.0  15.0  288.8  2.0   0  0.00  47.  1013.   2 NAD-SFC NoSubs
11  2  4  35 18   -2.9  0.086 -9.000 -9.000 -999.   61.     19.9  0.0950  0.72  1.00  1.00  352.0  15.0  287.8  2.0   0  0.00  52.  1013.   2 NAD-SFC NoSubs
11  2  4  35 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  286.5  2.0   0  0.00  58.  1013.   2 NAD-SFC NoSubs
11  2  4  35 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  285.4  2.0   0  0.00  64.  1013.   2 NAD-SFC NoSubs
11  2  4  35 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  284.2  2.0   0  0.00  69.  1014.   2 NAD-SFC NoSubs
11  2  4  35 22   -1.0  0.067 -9.000 -9.000 -999.   42.     26.8  0.0310  0.72  1.00  0.50  104.0  15.0  283.4  2.0   0  0.00  74.  1014.   2 NAD-SFC NoSubs
11  2  4  35 23   -1.0  0.067 -9.000 -9.000 -999.   42.     26.9  0.0310  0.72  1.00  0.50  102.0  15.0  282.8  2.0   0  0.00  77.  1014.   2 NAD-SFC NoSubs
11  2  4  35 24   -1.0  0.067 -9.000 -9.000 -999.   42.     26.9  0.0310  0.72  1.00  0.50   98.0  15.0  282.1  2.0   0  0.00  79.  1014.   2 NAD-SFC NoSubs
11  2  5  36  1   -1.1  0.069 -9.000 -9.000 -999.   43.     27.5  0.0400  0.72  1.00  0.50   86.0  15.0  281.5  2.0   0  0.00  81.  1014.   2 NAD-SFC NoSubs
11  2  5  36  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  281.0  2.0   0  0.00  83.  1013.   2 NAD-SFC NoSubs
11  2  5  36  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  280.6  2.0   0  0.00  84.  1013.   2 NAD-SFC NoSubs
11  2  5  36  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  280.4  2.0   0  0.00  84.  1013.   2 NAD-SFC NoSubs
11  2  5  36  5   -1.0  0.065 -9.000 -9.000 -999.   40.     25.9  0.0200  0.72  1.00  0.50  259.0  15.0  280.2  2.0   0  0.00  84.  1013.   2 NAD-SFC NoSubs
11  2  5  36  6   -1.0  0.066 -9.000 -9.000 -999.   40.     26.1  0.0220  0.72  1.00  0.50  226.0  15.0  280.1  2.0   0  0.00  84.  1013.   2 NAD-SFC NoSubs
11  2  5  36  7   -1.0  0.066 -9.000 -9.000 -999.   40.     26.2  0.0220  0.72  1.00  0.50  199.0  15.0  279.9  2.0   0  0.00  86.  1013.   2 NAD-SFC NoSubs
11  2  5  36  8   -0.7  0.055 -9.000 -9.000 -999.   31.     22.5  0.0220  0.72  0.51  0.50  188.0  15.0  280.1  2.0   0  0.00  85.  1013.   2 NAD-SFC NoSubs
11  2  5  36  9   31.4 -9.000 -9.000 -9.000   74. -999. -99999.0  0.0471  0.72  0.30  0.00    0.0  15.0  283.0  2.0   0  0.00  72.  1012.   2 NAD-SFC NoSubs
11  2  5  36 10   76.2 -9.000 -9.000 -9.000  197. -999. -99999.0  0.0471  0.72  0.23  0.00    0.0  15.0  285.2  2.0   0  0.00  64.  1012.   2 NAD-SFC NoSubs
11  2  5  36 11  108.8 -9.000 -9.000 -9.000  373. -999. -99999.0  0.0471  0.72  0.20  0.00    0.0  15.0  287.2  2.0   0  0.00  56.  1011.   2 NAD-SFC NoSubs
11  2  5  36 12  127.0 -9.000 -9.000 -9.000  499. -999. -99999.0  0.0471  0.72  0.19  0.00    0.0  15.0  288.5  2.0   0  0.00  52.  1010.   2 NAD-SFC NoSubs
11  2  5  36 13  130.3  0.079  1.295  0.010  601.   53.     -1.0  0.0420  0.72  0.19  0.50  285.0  15.0  289.8  2.0   0  0.00  48.  1009.   2 NAD-SFC NoSubs
11  2  5  36 14  118.5  0.134  1.308  0.009  680.  118.     -1.8  0.0800  0.72  0.20  1.00  316.0  15.0  290.6  2.0   0  0.00  45.  1009.   2 NAD-SFC NoSubs
11  2  5  36 15   91.9  0.175  1.233  0.009  734.  176.     -5.3  0.0950  0.72  0.21  1.50  344.0  15.0  291.0  2.0   0  0.00  45.  1008.   2 NAD-SFC NoSubs
11  2  5  36 16   51.9  0.210  1.032  0.009  763.  231.    -16.0  0.0950  0.72  0.26  2.10  345.0  15.0  291.0  2.0   0  0.00  48.  1008.   2 NAD-SFC NoSubs
11  2  5  36 17    3.5 -9.000 -9.000 -9.000  764. -999. -99999.0  0.0471  0.72  0.40  0.00    0.0  15.0  290.6  2.0   0  0.00  52.  1008.   2 NAD-SFC NoSubs
11  2  5  36 18   -2.2  0.074 -9.000 -9.000 -999.   48.     16.8  0.0240  0.72  1.00  1.00  157.0  15.0  289.4  2.0   0  0.00  57.  1008.   2 NAD-SFC NoSubs
11  2  5  36 19  -11.2  0.146 -9.000 -9.000 -999.  134.     25.2  0.0240  0.72  1.00  2.60  175.0  15.0  288.2  2.0   0  0.00  62.  1008.   2 NAD-SFC NoSubs
11  2  5  36 20  -25.8  0.238 -9.000 -9.000 -999.  279.     47.2  0.0240  0.72  1.00  4.10  172.0  15.0  287.2  2.0   0  0.00  65.  1008.   2 NAD-SFC NoSubs
11  2  5  36 21  -29.2  0.269 -9.000 -9.000 -999.  335.     60.0  0.0240  0.72  1.00  4.60  169.0  15.0  286.5  2.0   0  0.00  67.  1008.   2 NAD-SFC NoSubs
11  2  5  36 22  -22.0  0.208 -9.000 -9.000 -999.  228.     36.5  0.0240  0.72  1.00  3.60  162.0  15.0  286.0  2.0   0  0.00  67.  1008.   2 NAD-SFC NoSubs
11  2  5  36 23  -16.2  0.177 -9.000 -9.000 -999.  179.     30.7  0.0240  0.72  1.00  3.10  154.0  15.0  285.2  2.0   0  0.00  70.  1008.   2 NAD-SFC NoSubs
11  2  5  36 24   -3.9  0.088 -9.000 -9.000 -999.   66.     15.7  0.0240  0.72  1.00  1.50  157.0  15.0  284.4  2.0   0  0.00  74.  1008.   2 NAD-SFC NoSubs
11  2  6  37  1   -3.8  0.087 -9.000 -9.000 -999.   62.     15.5  0.0220  0.72  1.00  1.50  208.0  15.0  283.8  2.0   0  0.00  79.  1008.   2 NAD-SFC NoSubs
11  2  6  37  2  -10.8  0.142 -9.000 -9.000 -999.  128.     23.8  0.0200  0.72  1.00  2.60  253.0  15.0  283.4  2.0   0  0.00  82.  1008.   2 NAD-SFC NoSubs
11  2  6  37  3  -25.1  0.228 -9.000 -9.000 -999.  262.     42.7  0.0420  0.72  1.00  3.60  270.0  15.0  283.0  2.0   0  0.00  83.  1009.   2 NAD-SFC NoSubs
11  2  6  37  4  -21.2  0.202 -9.000 -9.000 -999.  218.     34.7  0.0200  0.72  1.00  3.60  266.0  15.0  282.5  2.0   0  0.00  81.  1009.   2 NAD-SFC NoSubs
11  2  6  37  5  -15.6  0.172 -9.000 -9.000 -999.  171.     29.2  0.0200  0.72  1.00  3.10  268.0  15.0  282.1  2.0   0  0.00  80.  1009.   2 NAD-SFC NoSubs
11  2  6  37  6  -10.8  0.142 -9.000 -9.000 -999.  128.     23.7  0.0200  0.72  1.00  2.60  257.0  15.0  281.8  2.0   0  0.00  80.  1009.   2 NAD-SFC NoSubs
11  2  6  37  7  -15.6  0.172 -9.000 -9.000 -999.  171.     29.2  0.0200  0.72  1.00  3.10  254.0  15.0  281.5  2.0   0  0.00  78.  1010.   2 NAD-SFC NoSubs
11  2  6  37  8  -12.2  0.175 -9.000 -9.000 -999.  175.     39.2  0.0200  0.72  0.51  3.10  249.0  15.0  281.8  2.0   0  0.00  77.  1010.   2 NAD-SFC NoSubs
11  2  6  37  9   32.6  0.239  0.428  0.008   86.  281.    -37.8  0.0420  0.72  0.29  3.10  284.0  15.0  283.8  2.0   0  0.00  67.  1011.   2 NAD-SFC NoSubs
11  2  6  37 10   77.5  0.222  0.731  0.008  181.  251.    -12.7  0.0420  0.72  0.23  2.60  278.0  15.0  285.9  2.0   0  0.00  59.  1011.   2 NAD-SFC NoSubs
11  2  6  37 11  110.3  0.204  0.977  0.007  304.  221.     -6.9  0.0200  0.72  0.20  2.60  268.0  15.0  288.4  2.0   0  0.00  48.  1010.   2 NAD-SFC NoSubs
11  2  6  37 12  128.6  0.232  1.161  0.006  439.  267.     -8.7  0.0420  0.72  0.19  2.60  276.0  15.0  290.0  2.0   0  0.00  43.  1010.   2 NAD-SFC NoSubs
11  2  6  37 13  131.9  0.258  1.308  0.006  612.  315.    -11.8  0.0800  0.72  0.19  2.60  304.0  15.0  291.0  2.0   0  0.00  42.  1010.   2 NAD-SFC NoSubs
11  2  6  37 14  120.1  0.256  1.349  0.007  737.  311.    -12.6  0.0800  0.72  0.20  2.60  319.0  15.0  291.8  2.0   0  0.00  41.  1010.   2 NAD-SFC NoSubs
11  2  6  37 15   93.5  0.259  1.287  0.007  821.  315.    -16.6  0.0950  0.72  0.21  2.60  335.0  15.0  292.0  2.0   0  0.00  42.  1010.   2 NAD-SFC NoSubs
11  2  6  37 16   53.4  0.210  1.086  0.007  866.  232.    -15.7  0.0950  0.72  0.26  2.10  332.0  15.0  291.9  2.0   0  0.00  48.  1010.   2 NAD-SFC NoSubs
11  2  6  37 17    4.6  0.178  0.482  0.007  868.  181.   -110.1  0.0950  0.72  0.40  2.10  352.0  15.0  291.2  2.0   0  0.00  52.  1010.   2 NAD-SFC NoSubs
11  2  6  37 18   -2.9  0.086 -9.000 -9.000 -999.   65.     19.9  0.0950  0.72  1.00  1.00  352.0  15.0  290.1  2.0   0  0.00  56.  1011.   2 NAD-SFC NoSubs
11  2  6  37 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  288.8  2.0   0  0.00  62.  1011.   2 NAD-SFC NoSubs
11  2  6  37 20   -0.9  0.065 -9.000 -9.000 -999.   40.     25.9  0.0220  0.72  1.00  0.50  191.0  15.0  287.4  2.0   0  0.00  68.  1011.   2 NAD-SFC NoSubs
11  2  6  37 21   -1.0  0.065 -9.000 -9.000 -999.   40.     25.9  0.0220  0.72  1.00  0.50  189.0  15.0  286.5  2.0   0  0.00  72.  1011.   2 NAD-SFC NoSubs
11  2  6  37 22   -1.0  0.066 -9.000 -9.000 -999.   41.     26.5  0.0280  0.72  1.00  0.50  132.0  15.0  285.6  2.0   0  0.00  75.  1011.   2 NAD-SFC NoSubs
11  2  6  37 23   -2.3  0.076 -9.000 -9.000 -999.   51.     17.4  0.0310  0.72  1.00  1.00   97.0  15.0  284.8  2.0   0  0.00  78.  1012.   2 NAD-SFC NoSubs
11  2  6  37 24   -2.3  0.076 -9.000 -9.000 -999.   51.     17.4  0.0310  0.72  1.00  1.00   97.0  15.0  284.1  2.0   0  0.00  80.  1012.   2 NAD-SFC NoSubs
11  2  7  38  1   -1.0  0.067 -9.000 -9.000 -999.   42.     26.8  0.0310  0.72  1.00  0.50  108.0  15.0  283.6  2.0   0  0.00  81.  1011.   2 NAD-SFC NoSubs
11  2  7  38  2   -1.0  0.067 -9.000 -9.000 -999.   41.     26.6  0.0280  0.72  1.00  0.50  135.0  15.0  283.1  2.0   0  0.00  82.  1011.   2 NAD-SFC NoSubs
11  2  7  38  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.8  2.0   0  0.00  83.  1011.   2 NAD-SFC NoSubs
11  2  7  38  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.2  2.0   0  0.00  83.  1011.   2 NAD-SFC NoSubs
11  2  7  38  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.0  2.0   0  0.00  82.  1011.   2 NAD-SFC NoSubs
11  2  7  38  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  281.8  2.0   0  0.00  82.  1011.   2 NAD-SFC NoSubs
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11  2  7  38  7   -1.0  0.067 -9.000 -9.000 -999.   42.     26.9  0.0310  0.72  1.00  0.50   92.0  15.0 281.4  2.0   0  0.00  83.  1011.    2 NAD-SFC NoSubs
11  2  7  38  8   -0.6  0.054 -9.000 -9.000 -999.   30.     22.4  0.0280  0.72  0.50  0.50  124.0  15.0 281.2  2.0   0  0.00  84.  1011.    2 NAD-SFC NoSubs
11  2  7  38  9   33.7 -9.000 -9.000 -9.000   72. -999. -99999.0  0.0471  0.72  0.29  0.00    0.0  15.0 284.1  2.0   0  0.00  74.  1010.    2 NAD-SFC NoSubs
11  2  7  38 10   78.9 -9.000 -9.000 -9.000  208. -999. -99999.0  0.0471  0.72  0.22  0.00    0.0  15.0 286.9  2.0   0  0.00  63.  1010.    2 NAD-SFC NoSubs
11  2  7  38 11  111.7 -9.000 -9.000 -9.000  384. -999. -99999.0  0.0471  0.72  0.20  0.00    0.0  15.0 289.0  2.0   0  0.00  57.  1009.    2 NAD-SFC NoSubs
11  2  7  38 12  130.1 -9.000 -9.000 -9.000  505. -999. -99999.0  0.0471  0.72  0.19  0.00    0.0  15.0 290.9  2.0   0  0.00  49.  1008.    2 NAD-SFC NoSubs
11  2  7  38 13  133.5 -9.000 -9.000 -9.000  605. -999. -99999.0  0.0471  0.72  0.19  0.00    0.0  15.0 292.0  2.0   0  0.00  46.  1007.    2 NAD-SFC NoSubs
11  2  7  38 14  121.7  0.135  1.323  0.008  683.  119.     -1.8  0.0800  0.72  0.20  1.00  320.0  15.0 292.8  2.0   0  0.00  44.  1006.    2 NAD-SFC NoSubs
11  2  7  38 15   95.1  0.259  1.251  0.008  738.  316.    -16.4  0.0950  0.72  0.21  2.60  331.0  15.0 293.1  2.0   0  0.00  44.  1006.    2 NAD-SFC NoSubs
11  2  7  38 16   54.9  0.284  1.055  0.008  768.  363.    -37.4  0.0950  0.72  0.26  3.10  331.0  15.0 292.8  2.0   0  0.00  52.  1005.    2 NAD-SFC NoSubs
11  2  7  38 17    5.8  0.330  0.499  0.008  770.  455.   -558.3  0.0950  0.72  0.39  4.10  344.0  15.0 291.6  2.0   0  0.00  60.  1005.    2 NAD-SFC NoSubs
11  2  7  38 18  -32.8  0.307 -9.000 -9.000 -999.  408.     79.0  0.0950  0.72  1.00  4.10  343.0  15.0 290.2  2.0   0  0.00  65.  1005.    2 NAD-SFC NoSubs
11  2  7  38 19  -27.7  0.258 -9.000 -9.000 -999.  316.     55.8  0.0800  0.72  1.00  3.60  318.0  15.0 289.1  2.0   0  0.00  67.  1004.    2 NAD-SFC NoSubs
11  2  7  38 20  -27.8  0.258 -9.000 -9.000 -999.  315.     55.5  0.0800  0.72  1.00  3.60  325.0  15.0 287.8  2.0   0  0.00  71.  1004.    2 NAD-SFC NoSubs
11  2  7  38 21  -22.5  0.220 -9.000 -9.000 -999.  249.     42.6  0.0800  0.72  1.00  3.10  310.0  15.0 286.6  2.0   0  0.00  74.  1004.    2 NAD-SFC NoSubs
11  2  7  38 22  -10.0  0.145 -9.000 -9.000 -999.  134.     27.1  0.0800  0.72  1.00  2.10  315.0  15.0 285.8  2.0   0  0.00  74.  1004.    2 NAD-SFC NoSubs
11  2  7  38 23   -4.4  0.095 -9.000 -9.000 -999.   70.     17.4  0.0420  0.72  1.00  1.50  293.0  15.0 285.2  2.0   0  0.00  73.  1004.    2 NAD-SFC NoSubs
11  2  7  38 24   -2.4  0.079 -9.000 -9.000 -999.   53.     18.0  0.0420  0.72  1.00  1.00  294.0  15.0 284.6  2.0   0  0.00  72.  1004.    2 NAD-SFC NoSubs
11  2  8  39  1   -2.4  0.079 -9.000 -9.000 -999.   53.     18.0  0.0420  0.72  1.00  1.00  280.0  15.0 283.9  2.0   0  0.00  72.  1004.    2 NAD-SFC NoSubs
11  2  8  39  2   -2.1  0.073 -9.000 -9.000 -999.   48.     16.6  0.0200  0.72  1.00  1.00  261.0  15.0 283.2  2.0   0  0.00  73.  1004.    2 NAD-SFC NoSubs
11  2  8  39  3   -3.8  0.086 -9.000 -9.000 -999.   61.     15.2  0.0200  0.72  1.00  1.50  245.0  15.0 282.5  2.0   0  0.00  74.  1004.    2 NAD-SFC NoSubs
11  2  8  39  4   -6.9  0.113 -9.000 -9.000 -999.   92.     18.8  0.0200  0.72  1.00  2.10  251.0  15.0 281.8  2.0   0  0.00  73.  1004.    2 NAD-SFC NoSubs
11  2  8  39  5   -3.8  0.086 -9.000 -9.000 -999.   61.     15.2  0.0200  0.72  1.00  1.50  260.0  15.0 280.9  2.0   0  0.00  72.  1004.    2 NAD-SFC NoSubs
11  2  8  39  6   -2.2  0.074 -9.000 -9.000 -999.   48.     16.6  0.0200  0.72  1.00  1.00  252.0  15.0 280.2  2.0   0  0.00  70.  1004.    2 NAD-SFC NoSubs
11  2  8  39  7   -2.2  0.074 -9.000 -9.000 -999.   49.     16.8  0.0220  0.72  1.00  1.00  221.0  15.0 279.8  2.0   0  0.00  68.  1004.    2 NAD-SFC NoSubs
11  2  8  39  8   -1.4  0.062 -9.000 -9.000 -999.   37.     15.4  0.0220  0.72  0.50  1.00  195.0  15.0 279.8  2.0   0  0.00  66.  1004.    2 NAD-SFC NoSubs
11  2  8  39  9   34.3  0.312  0.519  0.008  146.  417.    -79.0  0.0950  0.72  0.29  3.60  351.0  15.0 282.4  2.0   0  0.00  48.  1005.    2 NAD-SFC NoSubs
11  2  8  39 10   79.3  0.292  0.850  0.008  278.  378.    -28.1  0.0950  0.72  0.22  3.10  354.0  15.0 284.1  2.0   0  0.00  42.  1005.    2 NAD-SFC NoSubs
11  2  8  39 11  111.8  0.263  1.066  0.008  388.  324.    -14.5  0.0950  0.72  0.20  2.60  346.0  15.0 285.4  2.0   0  0.00  38.  1004.    2 NAD-SFC NoSubs
11  2  8  39 12  129.9  0.266  1.227  0.007  509.  330.    -13.0  0.0950  0.72  0.19  2.60  343.0  15.0 286.5  2.0   0  0.00  35.  1004.    2 NAD-SFC NoSubs
11  2  8  39 13  133.1  0.304  1.313  0.006  610.  402.    -18.9  0.0950  0.72  0.19  3.10  344.0  15.0 287.4  2.0   0  0.00  33.  1004.    2 NAD-SFC NoSubs
11  2  8  39 14  121.2  0.374  1.337  0.006  707.  550.    -38.7  0.0950  0.72  0.20  4.10  342.0  15.0 287.9  2.0   0  0.00  32.  1003.    2 NAD-SFC NoSubs
11  2  8  39 15   94.6  0.368  1.278  0.006  791.  536.    -47.1  0.0950  0.72  0.21  4.10  342.0  15.0 288.1  2.0   0  0.00  32.  1003.    2 NAD-SFC NoSubs
11  2  8  39 16   54.4  0.284  1.082  0.006  834.  367.    -37.6  0.0950  0.72  0.25  3.10  333.0  15.0 288.0  2.0   0  0.00  38.  1004.    2 NAD-SFC NoSubs
11  2  8  39 17    5.4  0.210  0.502  0.006  837.  233.   -153.5  0.0800  0.72  0.39  2.60  318.0  15.0 287.4  2.0   0  0.00  43.  1004.    2 NAD-SFC NoSubs
11  2  8  39 18  -15.6  0.182 -9.000 -9.000 -999.  187.     34.7  0.0800  0.72  1.00  2.60  309.0  15.0 286.2  2.0   0  0.00  47.  1005.    2 NAD-SFC NoSubs
11  2  8  39 19  -15.7  0.182 -9.000 -9.000 -999.  187.     34.7  0.0800  0.72  1.00  2.60  315.0  15.0 285.1  2.0   0  0.00  51.  1006.    2 NAD-SFC NoSubs
11  2  8  39 20   -8.3  0.128 -9.000 -9.000 -999.  110.     22.6  0.0420  0.72  1.00  2.10  287.0  15.0 284.0  2.0   0  0.00  54.  1006.    2 NAD-SFC NoSubs
11  2  8  39 21   -8.4  0.128 -9.000 -9.000 -999.  110.     22.5  0.0420  0.72  1.00  2.10  273.0  15.0 283.1  2.0   0  0.00  56.  1007.    2 NAD-SFC NoSubs
11  2  8  39 22  -15.9  0.174 -9.000 -9.000 -999.  175.     29.9  0.0220  0.72  1.00  3.10  229.0  15.0 282.2  2.0   0  0.00  57.  1007.    2 NAD-SFC NoSubs
11  2  8  39 23  -21.8  0.205 -9.000 -9.000 -999.  222.     35.5  0.0220  0.72  1.00  3.60  226.0  15.0 281.4  2.0   0  0.00  58.  1008.    2 NAD-SFC NoSubs
11  2  8  39 24  -26.0  0.235 -9.000 -9.000 -999.  273.     44.8  0.0220  0.72  1.00  4.10  232.0  15.0 280.6  2.0   0  0.00  60.  1008.    2 NAD-SFC NoSubs
11  2  9  40  1  -29.5  0.265 -9.000 -9.000 -999.  328.     56.9  0.0220  0.72  1.00  4.60  239.0  15.0 279.9  2.0   0  0.00  61.  1008.    2 NAD-SFC NoSubs
11  2  9  40  2  -29.1  0.261 -9.000 -9.000 -999.  321.     55.1  0.0200  0.72  1.00  4.60  264.0  15.0 279.4  2.0   0  0.00  62.  1009.    2 NAD-SFC NoSubs
11  2  9  40  3  -29.2  0.261 -9.000 -9.000 -999.  320.     55.0  0.0200  0.72  1.00  4.60  266.0  15.0 278.9  2.0   0  0.00  62.  1009.    2 NAD-SFC NoSubs
11  2  9  40  4  -33.0  0.295 -9.000 -9.000 -999.  385.     70.3  0.0420  0.72  1.00  4.60  277.0  15.0 278.4  2.0   0  0.00  61.  1009.    2 NAD-SFC NoSubs
11  2  9  40  5  -29.3  0.262 -9.000 -9.000 -999.  322.     55.1  0.0420  0.72  1.00  4.10  281.0  15.0 278.0  2.0   0  0.00  61.  1009.    2 NAD-SFC NoSubs
11  2  9  40  6  -29.4  0.262 -9.000 -9.000 -999.  322.     55.1  0.0420  0.72  1.00  4.10  278.0  15.0 277.8  2.0   0  0.00  60.  1010.    2 NAD-SFC NoSubs
11  2  9  40  7  -25.7  0.228 -9.000 -9.000 -999.  262.     41.8  0.0420  0.72  1.00  3.60  286.0  15.0 277.5  2.0   0  0.00  58.  1011.    2 NAD-SFC NoSubs
11  2  9  40  8  -12.7  0.198 -9.000 -9.000 -999.  212.     55.1  0.0420  0.72  0.49  3.10  287.0  15.0 277.9  2.0   0  0.00  57.  1011.    2 NAD-SFC NoSubs
11  2  9  40  9   34.9  0.302  0.466  0.005  104.  399.    -71.3  0.0800  0.72  0.29  3.60  310.0  15.0 280.1  2.0   0  0.00  47.  1011.    2 NAD-SFC NoSubs
11  2  9  40 10   80.0  0.222  0.803  0.005  233.  254.    -12.4  0.0420  0.72  0.22  2.60  291.0  15.0 282.1  2.0   0  0.00  41.  1011.    2 NAD-SFC NoSubs
11  2  9  40 11  112.5  0.155  1.137  0.006  471.  148.     -3.0  0.0420  0.72  0.20  1.50  291.0  15.0 283.8  2.0   0  0.00  37.  1011.    2 NAD-SFC NoSubs
11  2  9  40 12  130.8  0.177  1.380  0.009  725.  178.     -3.8  0.0800  0.72  0.19  1.50  324.0  15.0 285.1  2.0   0  0.00  34.  1010.    2 NAD-SFC NoSubs
11  2  9  40 13  134.0  0.183  1.447  0.009  815.  187.     -4.1  0.0950  0.72  0.19  1.50  339.0  15.0 286.2  2.0   0  0.00  32.  1009.    2 NAD-SFC NoSubs
11  2  9  40 14  122.2  0.228  1.445  0.009  889.  261.     -8.7  0.0950  0.72  0.20  2.10  346.0  15.0 287.0  2.0   0  0.00  32.  1009.    2 NAD-SFC NoSubs
11  2  9  40 15   95.6  0.259  1.359  0.009  944.  316.    -16.3  0.0950  0.72  0.21  2.60  347.0  15.0 287.4  2.0   0  0.00  33.  1008.    2 NAD-SFC NoSubs
11  2  9  40 16   55.3 -9.000 -9.000 -9.000  972. -999. -99999.0  0.0471  0.72  0.25  0.00    0.0  15.0 286.9  2.0   0  0.00  37.  1008.    2 NAD-SFC NoSubs
11  2  9  40 17    6.0  0.255  0.547  0.008  974.  309.   -247.7  0.0960  0.72  0.38  3.10   22.0  15.0 286.1  2.0   0  0.00  45.  1009.    2 NAD-SFC NoSubs
11  2  9  40 18  -27.1  0.248 -9.000 -9.000 -999.  296.     50.6  0.0650  0.72  1.00  3.60   37.0  15.0 285.0  2.0   0  0.00  49.  1009.    2 NAD-SFC NoSubs
11  2  9  40 19  -14.8  0.175 -9.000 -9.000 -999.  177.     32.5  0.0650  0.72  1.00  2.60   47.0  15.0 284.0  2.0   0  0.00  52.  1010.    2 NAD-SFC NoSubs
11  2  9  40 20   -1.2  0.072 -9.000 -9.000 -999.   53.     28.7  0.0650  0.72  1.00  0.50   49.0  15.0 283.0  2.0   0  0.00  56.  1010.    2 NAD-SFC NoSubs
11  2  9  40 21   -1.0  0.065 -9.000 -9.000 -999.   40.     26.1  0.0220  0.72  1.00  0.50  206.0  15.0 281.8  2.0   0  0.00  63.  1011.    2 NAD-SFC NoSubs
11  2  9  40 22   -1.0  0.066 -9.000 -9.000 -999.   40.     26.1  0.0220  0.72  1.00  0.50  235.0  15.0 280.8  2.0   0  0.00  69.  1011.    2 NAD-SFC NoSubs
11  2  9  40 23   -2.5  0.079 -9.000 -9.000 -999.   54.     18.1  0.0420  0.72  1.00  1.00  285.0  15.0 280.1  2.0   0  0.00  72.  1011.    2 NAD-SFC NoSubs
11  2  9  40 24   -2.5  0.079 -9.000 -9.000 -999.   54.     18.1  0.0420  0.72  1.00  1.00  271.0  15.0 279.5  2.0   0  0.00  74.  1011.    2 NAD-SFC NoSubs
11  2 10  41  1   -3.8  0.086 -9.000 -9.000 -999.   61.     15.2  0.0200  0.72  1.00  1.50  265.0  15.0 279.1  2.0   0  0.00  72.  1012.    2 NAD-SFC NoSubs
11  2 10  41  2  -15.7  0.172 -9.000 -9.000 -999.  171.     29.0  0.0200  0.72  1.00  3.10  269.0  15.0 278.9  2.0   0  0.00  68.  1012.    2 NAD-SFC NoSubs
11  2 10  41  3  -25.6  0.228 -9.000 -9.000 -999.  262.     42.0  0.0420  0.72  1.00  3.60  280.0  15.0 278.6  2.0   0  0.00  64.  1012.    2 NAD-SFC NoSubs
11  2 10  41  4  -25.6  0.228 -9.000 -9.000 -999.  262.     41.9  0.0420  0.72  1.00  3.60  291.0  15.0 278.1  2.0   0  0.00  62.  1012.    2 NAD-SFC NoSubs
11  2 10  41  5  -19.0  0.194 -9.000 -9.000 -999.  206.     34.9  0.0420  0.72  1.00  3.10  286.0  15.0 277.6  2.0   0  0.00  62.  1012.    2 NAD-SFC NoSubs
11  2 10  41  6  -13.2  0.161 -9.000 -9.000 -999.  155.     28.4  0.0420  0.72  1.00  2.60  285.0  15.0 277.1  2.0   0  0.00  61.  1012.    2 NAD-SFC NoSubs
11  2 10  41  7  -19.1  0.194 -9.000 -9.000 -999.  206.     34.8  0.0420  0.72  1.00  3.10  271.0  15.0 276.8  2.0   0  0.00  60.  1012.    2 NAD-SFC NoSubs
11  2 10  41  8   -8.3  0.145 -9.000 -9.000 -999.  133.     33.4  0.0200  0.72  0.48  2.60  269.0  15.0 276.8  2.0   0  0.00  58.  1012.    2 NAD-SFC NoSubs
11  2 10  41  9   35.8  0.240  0.485  0.006  115.  283.    -35.1  0.0420  0.72  0.28  3.10  297.0  15.0 278.8  2.0   0  0.00  47.  1012.    2 NAD-SFC NoSubs
11  2 10  41 10   80.8  0.190  0.828  0.006  254.  200.     -7.7  0.0420  0.72  0.22  2.10  290.0  15.0 280.6  2.0   0  0.00  42.  1012.    2 NAD-SFC NoSubs
11  2 10  41 11  113.4  0.229  1.104  0.006  429.  263.     -9.5  0.0420  0.72  0.20  2.60  281.0  15.0 282.2  2.0   0  0.00  39.  1011.    2 NAD-SFC NoSubs
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11	2	10	41	12	131.6	0.232	1.322	0.007	632.	268.	-8.5	0.0420	0.72	0.19	2.60	292.0	15.0	283.6	2.0	0	0.00	37.	1010.	2	NAD-SFC NoSubs
11	2	10	41	13	134.9	0.259	1.411	0.008	750.	316.	-11.6	0.0800	0.72	0.19	2.60	304.0	15.0	284.9	2.0	0	0.00	35.	1010.	2	NAD-SFC NoSubs
11	2	10	41	14	123.1	0.257	1.420	0.008	839.	313.	-12.4	0.0800	0.72	0.20	2.60	319.0	15.0	285.8	2.0	0	0.00	35.	1009.	2	NAD-SFC NoSubs
11	2	10	41	15	96.5	0.259	1.342	0.008	902.	317.	-16.2	0.0950	0.72	0.21	2.60	333.0	15.0	286.2	2.0	0	0.00	35.	1009.	2	NAD-SFC NoSubs
11	2	10	41	16	56.3	0.248	1.135	0.008	936.	297.	-24.4	0.0950	0.72	0.25	2.60	345.0	15.0	286.1	2.0	0	0.00	38.	1009.	2	NAD-SFC NoSubs
11	2	10	41	17	6.9	0.219	0.565	0.008	939.	245.	-136.0	0.0950	0.72	0.38	2.60	348.0	15.0	285.6	2.0	0	0.00	45.	1009.	2	NAD-SFC NoSubs
11	2	10	41	18	-10.7	0.150	-9.000	-9.000	-999.	141.	28.5	0.0960	0.72	1.00	2.10	14.0	15.0	284.6	2.0	0	0.00	48.	1009.	2	NAD-SFC NoSubs
11	2	10	41	19	-1.3	0.075	-9.000	-9.000	-999.	51.	29.7	0.0960	0.72	1.00	0.50	10.0	15.0	283.5	2.0	0	0.00	53.	1010.	2	NAD-SFC NoSubs
11	2	10	41	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	282.2	2.0	0	0.00	59.	1010.	2	NAD-SFC NoSubs
11	2	10	41	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	281.0	2.0	0	0.00	65.	1011.	2	NAD-SFC NoSubs
11	2	10	41	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	280.1	2.0	0	0.00	70.	1011.	2	NAD-SFC NoSubs
11	2	10	41	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	279.4	2.0	0	0.00	73.	1012.	2	NAD-SFC NoSubs
11	2	10	41	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	278.8	2.0	0	0.00	75.	1012.	2	NAD-SFC NoSubs
11	2	11	42	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	278.1	2.0	0	0.00	78.	1012.	2	NAD-SFC NoSubs
11	2	11	42	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	277.6	2.0	0	0.00	80.	1012.	2	NAD-SFC NoSubs
11	2	11	42	3	-1.3	0.074	-9.000	-9.000	-999.	49.	29.5	0.0800	0.72	1.00	0.50	314.0	15.0	277.2	2.0	0	0.00	80.	1012.	2	NAD-SFC NoSubs
11	2	11	42	4	-2.9	0.086	-9.000	-9.000	-999.	60.	19.6	0.0800	0.72	1.00	1.00	302.0	15.0	277.0	2.0	0	0.00	78.	1012.	2	NAD-SFC NoSubs
11	2	11	42	5	-4.5	0.095	-9.000	-9.000	-999.	71.	17.3	0.0420	0.72	1.00	1.50	287.0	15.0	276.8	2.0	0	0.00	75.	1012.	2	NAD-SFC NoSubs
11	2	11	42	6	-8.5	0.128	-9.000	-9.000	-999.	110.	22.3	0.0420	0.72	1.00	2.10	286.0	15.0	276.5	2.0	0	0.00	72.	1012.	2	NAD-SFC NoSubs
11	2	11	42	7	-8.5	0.128	-9.000	-9.000	-999.	110.	22.2	0.0420	0.72	1.00	2.10	293.0	15.0	276.2	2.0	0	0.00	70.	1012.	2	NAD-SFC NoSubs
11	2	11	42	8	-3.1	0.091	-9.000	-9.000	-999.	66.	22.0	0.0420	0.72	0.48	1.50	288.0	15.0	276.5	2.0	0	0.00	68.	1013.	2	NAD-SFC NoSubs
11	2	11	42	9	36.9	0.155	0.437	0.009	81.	146.	-9.1	0.0800	0.72	0.28	1.50	303.0	15.0	279.0	2.0	0	0.00	58.	1013.	2	NAD-SFC NoSubs
11	2	11	42	10	82.1	0.150	0.780	0.008	208.	140.	-3.7	0.0420	0.72	0.22	1.50	295.0	15.0	281.0	2.0	0	0.00	52.	1012.	2	NAD-SFC NoSubs
11	2	11	42	11	114.8	0.119	1.098	0.009	416.	99.	-1.3	0.0420	0.72	0.20	1.00	291.0	15.0	283.2	2.0	0	0.00	46.	1012.	2	NAD-SFC NoSubs
11	2	11	42	12	133.2	0.136	1.270	0.009	556.	121.	-1.7	0.0800	0.72	0.19	1.00	301.0	15.0	285.2	2.0	0	0.00	39.	1012.	2	NAD-SFC NoSubs
11	2	11	42	13	136.6	0.178	1.362	0.009	667.	180.	-3.7	0.0800	0.72	0.19	1.50	318.0	15.0	286.6	2.0	0	0.00	37.	1011.	2	NAD-SFC NoSubs
11	2	11	42	14	124.8	0.182	1.366	0.008	737.	186.	-4.3	0.0950	0.72	0.20	1.50	342.0	15.0	287.6	2.0	0	0.00	36.	1011.	2	NAD-SFC NoSubs
11	2	11	42	15	98.3	0.223	1.289	0.007	787.	252.	-10.1	0.0950	0.72	0.21	2.10	355.0	15.0	288.1	2.0	0	0.00	36.	1011.	2	NAD-SFC NoSubs
11	2	11	42	16	58.0	0.249	1.095	0.007	815.	298.	-24.0	0.0960	0.72	0.25	2.60	15.0	15.0	288.1	2.0	0	0.00	38.	1011.	2	NAD-SFC NoSubs
11	2	11	42	17	8.4	0.206	0.576	0.007	818.	225.	-93.8	0.0650	0.72	0.37	2.60	34.0	15.0	287.4	2.0	0	0.00	44.	1011.	2	NAD-SFC NoSubs
11	2	11	42	18	-9.5	0.139	-9.000	-9.000	-999.	125.	25.5	0.0650	0.72	1.00	2.10	37.0	15.0	286.2	2.0	0	0.00	47.	1012.	2	NAD-SFC NoSubs
11	2	11	42	19	-2.7	0.083	-9.000	-9.000	-999.	58.	19.0	0.0650	0.72	1.00	1.00	31.0	15.0	285.1	2.0	0	0.00	52.	1012.	2	NAD-SFC NoSubs
11	2	11	42	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	283.8	2.0	0	0.00	58.	1012.	2	NAD-SFC NoSubs
11	2	11	42	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	282.5	2.0	0	0.00	64.	1013.	2	NAD-SFC NoSubs
11	2	11	42	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	281.8	2.0	0	0.00	68.	1013.	2	NAD-SFC NoSubs
11	2	11	42	23	-1.2	0.072	-9.000	-9.000	-999.	47.	28.8	0.0650	0.72	1.00	0.50	56.0	15.0	281.0	2.0	0	0.00	70.	1013.	2	NAD-SFC NoSubs
11	2	11	42	24	-1.3	0.075	-9.000	-9.000	-999.	50.	29.8	0.0960	0.72	1.00	0.50	24.0	15.0	280.5	2.0	0	0.00	71.	1013.	2	NAD-SFC NoSubs
11	2	12	43	1	-3.0	0.087	-9.000	-9.000	-999.	62.	20.0	0.0960	0.72	1.00	1.00	9.0	15.0	280.1	2.0	0	0.00	71.	1013.	2	NAD-SFC NoSubs
11	2	12	43	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	279.6	2.0	0	0.00	71.	1013.	2	NAD-SFC NoSubs
11	2	12	43	3	-3.0	0.087	-9.000	-9.000	-999.	62.	20.0	0.0960	0.72	1.00	1.00	14.0	15.0	279.2	2.0	0	0.00	71.	1013.	2	NAD-SFC NoSubs
11	2	12	43	4	-3.0	0.087	-9.000	-9.000	-999.	62.	20.0	0.0960	0.72	1.00	1.00	11.0	15.0	278.8	2.0	0	0.00	72.	1013.	2	NAD-SFC NoSubs
11	2	12	43	5	-1.3	0.075	-9.000	-9.000	-999.	50.	29.9	0.0950	0.72	1.00	0.50	359.0	15.0	278.4	2.0	0	0.00	73.	1013.	2	NAD-SFC NoSubs
11	2	12	43	6	-1.3	0.075	-9.000	-9.000	-999.	50.	29.9	0.0950	0.72	1.00	0.50	352.0	15.0	278.1	2.0	0	0.00	74.	1013.	2	NAD-SFC NoSubs
11	2	12	43	7	-1.3	0.075	-9.000	-9.000	-999.	50.	29.9	0.0950	0.72	1.00	0.50	353.0	15.0	277.9	2.0	0	0.00	74.	1013.	2	NAD-SFC NoSubs
11	2	12	43	8	-0.7	0.056	-9.000	-9.000	-999.	32.	23.6	0.0960	0.72	0.47	0.50	12.0	15.0	278.0	2.0	0	0.00	74.	1014.	2	NAD-SFC NoSubs
11	2	12	43	9	38.3	0.121	0.432	0.014	76.	102.	-4.2	0.0950	0.72	0.28	1.00	346.0	15.0	280.2	2.0	0	0.00	64.	1014.	2	NAD-SFC NoSubs
11	2	12	43	10	83.7	0.174	0.745	0.012	178.	174.	-5.6	0.0950	0.72	0.22	1.50	332.0	15.0	283.2	2.0	0	0.00	52.	1014.	2	NAD-SFC NoSubs
11	2	12	43	11	116.6	0.180	0.990	0.009	301.	183.	-4.5	0.0950	0.72	0.20	1.50	335.0	15.0	285.4	2.0	0	0.00	48.	1014.	2	NAD-SFC NoSubs
11	2	12	43	12	135.0	0.223	1.159	0.007	417.	252.	-7.4	0.0800	0.72	0.19	2.10	327.0	15.0	287.1	2.0	0	0.00	45.	1013.	2	NAD-SFC NoSubs
11	2	12	43	13	138.4	0.230	1.278	0.007	545.	265.	-8.0	0.0950	0.72	0.19	2.10	338.0	15.0	288.8	2.0	0	0.00	42.	1013.	2	NAD-SFC NoSubs
11	2	12	43	14	126.9	0.229	1.311	0.006	641.	262.	-8.5	0.0950	0.72	0.19	2.10	341.0	15.0	290.1	2.0	0	0.00	38.	1012.	2	NAD-SFC NoSubs
11	2	12	43	15	100.4	0.223	1.272	0.006	740.	253.	-10.0	0.0950	0.72	0.21	2.10	348.0	15.0	290.8	2.0	0	0.00	34.	1011.	2	NAD-SFC NoSubs
11	2	12	43	16	60.0	0.212	1.099	0.006	798.	235.	-14.4	0.0950	0.72	0.25	2.10	344.0	15.0	290.6	2.0	0	0.00	39.	1011.	2	NAD-SFC NoSubs
11	2	12	43	17	10.2	0.142	0.610	0.006	806.	130.	-25.6	0.0950	0.72	0.37	1.50	338.0	15.0	289.8	2.0	0	0.00	44.	1010.	2	NAD-SFC NoSubs
11	2	12	43	18	-2.8	0.084	-9.000	-9.000	-999.	60.	19.4	0.0800	0.72	0.76	1.00	322.0	15.0	288.4	2.0	0	0.00	49.	1011.	2	NAD-SFC NoSubs
11	2	12	43	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	286.8	2.0	0	0.00	55.	1011.	2	NAD-SFC NoSubs
11	2	12	43	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	285.4	2.0	0	0.00	61.	1011.	2	NAD-SFC NoSubs
11	2	12	43	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	284.1	2.0	0	0.00	67.	1011.	2	NAD-SFC NoSubs
11	2	12	43	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	283.0	2.0	0	0.00	72.	1011.	2	NAD-SFC NoSubs
11	2	12	43	23	-1.2	0.072	-9.000	-9.000	-999.	47.	28.7	0.0650	0.72	1.00	0.50	58.0	15.0	282.1	2.0	0	0.00	76.	1012.	2	NAD-SFC NoSubs
11	2	12	43	24	-1.2	0.072	-9.000	-9.000	-999.	47.	28.8	0.0650	0.72	1.00	0.50	55.0	15.0	281.2	2.0	0	0.00	78.	1011.	2	NAD-SFC NoSubs
11	2	13	44	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	280.8	2.0	0	0.00	79.	1011.	2	NAD-SFC NoSubs
11	2	13	44	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	280.2	2.0	0	0.00	80.	1010.	2	NAD-SFC NoSubs
11	2	13	44	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	279.8	2.0	0	0.00	81.	1010.	2	NAD-SFC NoSubs
11	2	13	44	4	-1.0	0.068	-9.000	-9.000	-999.	42.	27.0	0.0310	0.72	1.00	0.50	97.0	15.0	279.2	2.0	0	0.00	82.	1010.	2	NAD-SFC NoSubs
11	2	13	44	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	278.8	2.0	0	0.00	83.	1009.	2	NAD-SFC NoSubs
11	2	13	44	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	278.4	2.0	0	0.00	83.	1009.	2	NAD-SFC NoSubs
11	2	13	44	7	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	278.0	2.0	0	0.00	84.	1009.	2	NAD-SFC NoSubs
11	2	13	44	8	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	0.47	0.00	0.0	15.0	278.2	2.0	0	0.00	83.	1009.	2	NAD-SFC NoSubs
11	2	13	44	9	39.7	-9.000	-9.000	-9.000	75.	-999.	-99999.0	0.0471	0.72	0.28	0.00	0.0	15.0	281.8	2.0	0	0.00	66.	1009.	2	NAD-SFC NoSubs
11	2	13	44	10	85.2	-9.000	-9.000	-9.000	192.	-999.	-99999.0	0.0471	0.72	0.22	0.00	0.0	15.0	284.4	2.0	0	0.00	56.	1009.	2	NAD-SFC NoSubs
11	2	13	44	11	118.1	-9.000	-9.000	-9.000	322.	-999.	-99999.0	0.0471	0.72	0.20	0.00	0.0	15.0	286.4	2.0	0	0.00	51.	1009.	2	NAD-SFC NoSubs
11	2	13	44	12	136.5	-9.000	-9.000	-9.000	446.	-999.	-99999.0	0.0471	0.72	0.19	0.00	0.0	15.0	287.9	2.0	0	0.00	48.	1008.	2	NAD-SFC NoSubs
11	2	13	44	13	139.9	0.090	1.303	0.007	568.	65.	-1.0	0.0800	0.72	0.19	0.50	309.0	15.0	289.2	2.0	0	0.00	41.	1007.	2	NAD-SFC NoSubs
11	2	13	44	14	128.1	0.136	1.332	0.006	663.	120.	-1.7	0.0800	0.72	0.19	1.00	317.0	15.0	289.9	2.0	0	0.00	38.	1006.	2	NAD-SFC NoSubs
11	2	13	44	15	101.4	0.136	1.294	0.007	767.	120.	-2.2	0.0950	0.72	0.21	1.00	340.0	15.0	290.0	2.0	0	0.00	38.	1006.	2	NAD-SFC NoSubs
11	2	13	44	16	60.9	0.128	1.118	0.007	823.	110.	-3.1	0.0950	0.72	0.25	1.00	339.0	15.0	289.8	2.0	0	0.00	43.	1005.	2	NAD-SFC NoSubs

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11  2 13  44 17   10.9  0.065  0.633  0.007  831.   41.     -2.2  0.0800  0.72  0.36  0.50  310.0  15.0  288.9  2.0   0  0.00  47.  1005.   2 NAD-SFC NoSubs
11  2 13  44 18   -0.9  0.064 -9.000 -9.000 -999.   39.     25.7  0.0200  0.72  0.75  0.50  255.0  15.0  287.9  2.0   0  0.00  52.  1006.   2 NAD-SFC NoSubs
11  2 13  44 19   -2.1  0.074 -9.000 -9.000 -999.   48.     16.7  0.0220  0.72  1.00  1.00  234.0  15.0  287.0  2.0   0  0.00  56.  1006.   2 NAD-SFC NoSubs
11  2 13  44 20   -6.9  0.113 -9.000 -9.000 -999.   92.     19.0  0.0200  0.72  1.00  2.10  246.0  15.0  286.6  2.0   0  0.00  57.  1007.   2 NAD-SFC NoSubs
11  2 13  44 21  -18.7  0.195 -9.000 -9.000 -999.  206.     35.5  0.0420  0.72  1.00  3.10  279.0  15.0  285.8  2.0   0  0.00  63.  1008.   2 NAD-SFC NoSubs
11  2 13  44 22  -13.0  0.161 -9.000 -9.000 -999.  155.     28.8  0.0420  0.72  1.00  2.60  299.0  15.0  284.5  2.0   0  0.00  69.  1009.   2 NAD-SFC NoSubs
11  2 13  44 23  -10.1  0.145 -9.000 -9.000 -999.  132.     27.0  0.0800  0.72  1.00  2.10  328.0  15.0  283.6  2.0   0  0.00  72.  1010.   2 NAD-SFC NoSubs
11  2 13  44 24   -5.5  0.108 -9.000 -9.000 -999.   86.     20.7  0.0950  0.72  1.00  1.50  346.0  15.0  283.2  2.0   0  0.00  69.  1010.   2 NAD-SFC NoSubs
11  2 14  45  1   -2.9  0.087 -9.000 -9.000 -999.   61.     20.0  0.0950  0.72  1.00  1.00  330.0  15.0  283.1  2.0   0  0.00  64.  1010.   2 NAD-SFC NoSubs
11  2 14  45  2   -5.6  0.109 -9.000 -9.000 -999.   86.     20.8  0.0960  0.72  1.00  1.50   22.0  15.0  282.5  2.0   0  0.00  65.  1011.   2 NAD-SFC NoSubs
11  2 14  45  3  -14.8  0.175 -9.000 -9.000 -999.  175.     32.4  0.0650  0.72  1.00  2.60   36.0  15.0  281.6  2.0   0  0.00  70.  1011.   2 NAD-SFC NoSubs
11  2 14  45  4  -21.4  0.211 -9.000 -9.000 -999.  233.     39.7  0.0650  0.72  1.00  3.10   46.0  15.0  281.1  2.0   0  0.00  73.  1011.   2 NAD-SFC NoSubs
11  2 14  45  5  -21.4  0.211 -9.000 -9.000 -999.  233.     39.7  0.0650  0.72  1.00  3.10   48.0  15.0  281.0  2.0   0  0.00  75.  1012.   2 NAD-SFC NoSubs
11  2 14  45  6  -21.5  0.211 -9.000 -9.000 -999.  233.     39.6  0.0650  0.72  1.00  3.10   55.0  15.0  280.9  2.0   0  0.00  75.  1012.   2 NAD-SFC NoSubs
11  2 14  45  7   -9.5  0.139 -9.000 -9.000 -999.  126.     25.3  0.0650  0.72  1.00  2.10   50.0  15.0  280.9  2.0   0  0.00  75.  1012.   2 NAD-SFC NoSubs
11  2 14  45  8   -1.2  0.062 -9.000 -9.000 -999.   40.     17.5  0.0400  0.72  0.46  1.00   64.0  15.0  281.0  2.0   0  0.00  74.  1012.   2 NAD-SFC NoSubs
11  2 14  45  9   42.7 -9.000 -9.000 -9.000  190. -999. -99999.0  0.0471  0.72  0.28  0.00    0.0  15.0  283.8  2.0   0  0.00  60.  1013.   3 NAD-SFC NoSubs
11  2 14  45 10   80.3 -9.000 -9.000 -9.000  462. -999. -99999.0  0.0471  0.72  0.22  0.00    0.0  15.0  285.6  2.0   0  0.00  47.  1013.   6 NAD-SFC NoSubs
11  2 14  45 11   26.9 -9.000 -9.000 -9.000  488. -999. -99999.0  0.0471  0.72  0.20  0.00    0.0  15.0  286.8  2.0   0  0.00  45.  1013.  10 NAD-SFC NoSubs
11  2 14  45 12   31.5  0.059  0.767  0.006  516.   34.     -1.0  0.0220  0.72  0.19  0.50  234.0  15.0  287.0  2.0   0  0.00  48.  1012.  10 NAD-SFC NoSubs
11  2 14  45 13   32.4  0.063  0.788  0.006  544.   38.     -1.0  0.0310  0.72  0.19  0.50  102.0  15.0  287.5  2.0   0  0.00  50.  1011.  10 NAD-SFC NoSubs
11  2 14  45 14  105.0  0.117  1.220  0.006  624.   96.     -1.4  0.0400  0.72  0.19  1.00   87.0  15.0  288.4  2.0   0  0.00  50.  1011.   7 NAD-SFC NoSubs
11  2 14  45 15   70.0  0.146  1.099  0.005  684.  135.     -4.0  0.0400  0.72  0.21  1.50   85.0  15.0  289.0  2.0   0  0.00  50.  1010.   8 NAD-SFC NoSubs
11  2 14  45 16   13.1  0.109  0.633  0.005  699.   86.     -8.8  0.0960  0.72  0.24  1.00   23.0  15.0  289.2  2.0   0  0.00  56.  1009.  10 NAD-SFC NoSubs
11  2 14  45 17   11.2  0.100  0.606  0.005  711.   76.     -8.0  0.0650  0.72  0.36  1.00   33.0  15.0  289.1  2.0   0  0.00  57.  1009.   8 NAD-SFC NoSubs
11  2 14  45 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.74  0.00    0.0  15.0  288.2  2.0   0  0.00  60.  1009.  10 NAD-SFC NoSubs
11  2 14  45 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  287.5  2.0   0  0.00  64.  1009.  10 NAD-SFC NoSubs
11  2 14  45 20   -0.5  0.048 -9.000 -9.000 -999.   26.     20.3  0.0200  0.72  1.00  0.50  257.0  15.0  286.9  2.0   0  0.00  68.  1009.  10 NAD-SFC NoSubs
11  2 14  45 21   -0.5  0.048 -9.000 -9.000 -999.   26.     20.3  0.0200  0.72  1.00  0.50  261.0  15.0  286.4  2.0   0  0.00  72.  1010.  10 NAD-SFC NoSubs
11  2 14  45 22   -2.5  0.081 -9.000 -9.000 -999.   55.     18.9  0.0200  0.72  1.00  1.50  268.0  15.0  285.8  2.0   0  0.00  75.  1010.  10 NAD-SFC NoSubs
11  2 14  45 23   -2.5  0.081 -9.000 -9.000 -999.   55.     18.9  0.0200  0.72  1.00  1.50  258.0  15.0  285.2  2.0   0  0.00  79.  1010.  10 NAD-SFC NoSubs
11  2 14  45 24   -3.0  0.091 -9.000 -9.000 -999.   66.     22.6  0.0420  0.72  1.00  1.50  273.0  15.0  284.9  2.0   0  0.00  83.  1010.  10 NAD-SFC NoSubs
11  2 15  46  1   -0.6  0.054 -9.000 -9.000 -999.   30.     22.9  0.0650  0.72  1.00  0.50   33.0  15.0  284.9  2.0   0  0.00  85.  1010.  10 NAD-SFC NoSubs
11  2 15  46  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  285.2  2.0   0  0.00  85.  1010.  10 NAD-SFC NoSubs
11  2 15  46  3   -0.6  0.052 -9.000 -9.000 -999.   28.     21.8  0.0400  0.72  1.00  0.50   72.0  15.0  285.1  2.0   0  0.25  87.  1010.  10 NAD-SFC NoSubs
11  2 15  46  4   -1.3  0.062 -9.000 -9.000 -999.   37.     16.2  0.0310  0.72  1.00  1.00  100.0  15.0  284.9  2.0   0  0.25  89.  1010.  10 NAD-SFC NoSubs
11  2 15  46  5   -2.8  0.087 -9.000 -9.000 -999.   61.     20.9  0.0310  0.72  1.00  1.50  118.0  15.0  284.6  2.0   0  0.51  91.  1010.  10 NAD-SFC NoSubs
11  2 15  46  6   -5.5  0.122 -9.000 -9.000 -999.  103.     30.0  0.0280  0.72  1.00  2.10  137.0  15.0  284.5  2.0   0  0.51  92.  1010.  10 NAD-SFC NoSubs
11  2 15  46  7   -6.4  0.117 -9.000 -9.000 -999.   96.     22.7  0.0240  0.72  1.00  2.10  151.0  15.0  284.4  2.0   0  0.25  92.  1010.   7 NAD-SFC NoSubs
11  2 15  46  8   -1.8  0.156 -9.000 -9.000 -999.  147.    193.8  0.0240  0.72  0.45  2.60  154.0  15.0  284.2  2.0   0  0.25  91.  1010.   7 NAD-SFC NoSubs
11  2 15  46  9   30.7  0.224  0.615  0.005  272.  254.     -33.0  0.0280  0.72  0.27  3.10  146.0  15.0  284.5  2.0   0  0.25  88.  1010.   8 NAD-SFC NoSubs
11  2 15  46 10   18.6  0.218  0.552  0.005  325.  244.     -50.1  0.0280  0.72  0.22  3.10  138.0  15.0  284.8  2.0   0  0.00  84.  1010.  10 NAD-SFC NoSubs
11  2 15  46 11   26.8  0.222  0.662  0.005  389.  251.     -36.8  0.0280  0.72  0.20  3.10  126.0  15.0  285.2  2.0   0  0.00  80.  1009.  10 NAD-SFC NoSubs
11  2 15  46 12  133.3  0.249  1.330  0.005  635.  298.     -10.4  0.0280  0.72  0.19  3.10  125.0  15.0  285.9  2.0   0  0.00  77.  1008.   5 NAD-SFC NoSubs
11  2 15  46 13  136.3  0.151  1.468  0.005  834.  145.      -2.3  0.0310  0.72  0.19  1.50  118.0  15.0  286.9  2.0   0  0.00  74.  1007.   5 NAD-SFC NoSubs
11  2 15  46 14  125.4 -9.000 -9.000 -9.000  983. -999. -99999.0  0.0471  0.72  0.19  0.00    0.0  15.0  287.9  2.0   0  0.00  70.  1007.   5 NAD-SFC NoSubs
11  2 15  46 15  103.6  0.090  1.460  0.005 1080.   64.     -1.0  0.0960  0.72  0.21  0.50    8.0  15.0  288.8  2.0   0  0.00  66.  1006.   4 NAD-SFC NoSubs
11  2 15  46 16   64.4 -9.000 -9.000 -9.000 1136. -999. -99999.0  0.0471  0.72  0.24  0.00    0.0  15.0  288.9  2.0   0  0.00  66.  1005.   4 NAD-SFC NoSubs
11  2 15  46 17   15.7  0.191  0.796  0.005 1149.  200.     -39.8  0.0950  0.72  0.36  2.10  354.0  15.0  288.4  2.0   0  0.00  70.  1005.   4 NAD-SFC NoSubs
11  2 15  46 18   -5.0  0.104 -9.000 -9.000 -999.   84.     20.4  0.0800  0.72  0.73  1.50  316.0  15.0  287.6  2.0   0  0.00  72.  1005.   4 NAD-SFC NoSubs
11  2 15  46 19   -4.2  0.094 -9.000 -9.000 -999.   69.     17.7  0.0420  0.72  1.00  1.50  286.0  15.0  287.2  2.0   0  0.00  71.  1005.   4 NAD-SFC NoSubs
11  2 15  46 20   -3.7  0.085 -9.000 -9.000 -999.   60.     15.3  0.0200  0.72  1.00  1.50  255.0  15.0  286.4  2.0   0  0.00  74.  1005.   3 NAD-SFC NoSubs
11  2 15  46 21  -15.6  0.175 -9.000 -9.000 -999.  175.     30.5  0.0220  0.72  1.00  3.10  221.0  15.0  285.1  2.0   0  0.00  80.  1005.   3 NAD-SFC NoSubs
11  2 15  46 22  -15.6  0.175 -9.000 -9.000 -999.  175.     30.5  0.0220  0.72  1.00  3.10  214.0  15.0  284.5  2.0   0  0.00  83.  1005.   3 NAD-SFC NoSubs
11  2 15  46 23  -10.8  0.144 -9.000 -9.000 -999.  132.     24.8  0.0220  0.72  1.00  2.60  180.0  15.0  284.2  2.0   0  0.00  83.  1004.   3 NAD-SFC NoSubs
11  2 15  46 24  -16.0  0.177 -9.000 -9.000 -999.  179.     31.1  0.0240  0.72  1.00  3.10  154.0  15.0  284.0  2.0   0  0.00  83.  1004.   3 NAD-SFC NoSubs
11  2 16  47  1  -28.3  0.276 -9.000 -9.000 -999.  348.     66.7  0.0280  0.72  1.00  4.60  145.0  15.0  283.8  2.0   0  0.00  82.  1003.   4 NAD-SFC NoSubs
11  2 16  47  2  -28.3  0.276 -9.000 -9.000 -999.  348.     66.5  0.0280  0.72  1.00  4.60  141.0  15.0  283.1  2.0   0  0.00  84.  1003.   4 NAD-SFC NoSubs
11  2 16  47  3  -27.6  0.269 -9.000 -9.000 -999.  336.     63.3  0.0240  0.72  1.00  4.60  152.0  15.0  283.2  2.0   0  0.00  83.  1002.   4 NAD-SFC NoSubs
11  2 16  47  4  -31.5  0.308 -9.000 -9.000 -999.  409.     82.6  0.0280  0.72  1.00  5.10  144.0  15.0  283.5  2.0   0  0.00  81.  1002.   4 NAD-SFC NoSubs
11  2 16  47  5  -35.3  0.345 -9.000 -9.000 -999.  487.    104.1  0.0280  0.72  1.00  5.70  141.0  15.0  283.5  2.0   0  0.00  80.  1001.   4 NAD-SFC NoSubs
11  2 16  47  6  -31.4  0.308 -9.000 -9.000 -999.  410.     82.6  0.0280  0.72  1.00  5.10  139.0  15.0  283.5  2.0   0  0.00  81.  1001.   4 NAD-SFC NoSubs
11  2 16  47  7  -31.4  0.308 -9.000 -9.000 -999.  409.     82.6  0.0280  0.72  1.00  5.10  145.0  15.0  283.8  2.0   0  0.00  81.  1001.   4 NAD-SFC NoSubs
11  2 16  47  8   -6.4  0.246 -9.000 -9.000 -999.  294.    206.5  0.0240  0.72  0.45  4.10  150.0  15.0  284.2  2.0   0  0.00  81.  1001.   3 NAD-SFC NoSubs
11  2 16  47  9   46.4  0.400  0.639  0.005  200.  608.    -123.3  0.0220  0.72  0.27  6.20  228.0  15.0  286.9  2.0   0  0.25  79.  1001.   4 NAD-SFC NoSubs
11  2 16  47 10   83.2  0.610  1.013  0.005  447. 1143.    -243.7  0.0200  0.72  0.21  9.80  264.0  15.0  288.2  2.0   0  0.51  63.  1002.   6 NAD-SFC NoSubs
11  2 16  47 11  118.5  0.618  1.311  0.005  680. 1166.    -178.0  0.0420  0.72  0.20  8.70  275.0  15.0  288.8  2.0   0  0.00  50.  1002.   5 NAD-SFC NoSubs
11  2 16  47 12  141.0  0.622  1.509  0.005  873. 1176.    -152.3  0.0420  0.72  0.19  8.70  272.0  15.0  288.8  2.0   0  0.00  43.  1002.   3 NAD-SFC NoSubs
11  2 16  47 13  143.9  0.590  1.608  0.005 1034. 1090.    -127.5  0.0420  0.72  0.19  8.20  273.0  15.0  288.8  2.0   0  0.00  38.  1002.   3 NAD-SFC NoSubs
11  2 16  47 14  131.9  0.588  1.624  0.005 1162. 1083.    -137.8  0.0420  0.72  0.19  8.20  275.0  15.0  288.5  2.0   0  0.00  38.  1002.   3 NAD-SFC NoSubs
11  2 16  47 15  105.2  0.550  1.544  0.005 1253.  982.    -141.5  0.0200  0.72  0.21  8.70  256.0  15.0  287.9  2.0   0  0.00  42.  1002.   3 NAD-SFC NoSubs
11  2 16  47 16   64.9  0.457  1.333  0.005 1305.  749.    -131.0  0.0200  0.72  0.24  7.20  260.0  15.0  286.8  2.0   0  0.00  51.  1002.   4 NAD-SFC NoSubs
11  2 16  47 17   14.7  0.262  0.814  0.005 1313.  356.    -109.2  0.0200  0.72  0.35  4.10  262.0  15.0  285.5  2.0   0  0.00  60.  1003.   3 NAD-SFC NoSubs
11  2 16  47 18  -24.4  0.232 -9.000 -9.000 -999.  269.     45.7  0.0200  0.72  0.72  4.10  259.0  15.0  284.0  2.0   0  0.00  63.  1004.   3 NAD-SFC NoSubs
11  2 16  47 19  -20.9  0.202 -9.000 -9.000 -999.  218.     35.3  0.0200  0.72  1.00  3.60  242.0  15.0  283.1  2.0   0  0.00  66.  1005.   3 NAD-SFC NoSubs
11  2 16  47 20  -15.3  0.172 -9.000 -9.000 -999.  171.     29.7  0.0200  0.72  1.00  3.10  244.0  15.0  282.2  2.0   0  0.00  69.  1005.   3 NAD-SFC NoSubs
11  2 16  47 21  -10.7  0.144 -9.000 -9.000 -999.  132.     25.2  0.0220  0.72  1.00  2.60  234.0  15.0  281.8  2.0   0  0.00  72.  1006.   4 NAD-SFC NoSubs
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11	2	16	47	22	-3.7	0.086	-9.000	-9.000	-999.	61.	15.6	0.0220	0.72	1.00	1.50	219.0	15.0	281.2	2.0	0	0.00	75.	1006.	4	NAD-SFC	NoSubs
11	2	16	47	23	-2.1	0.073	-9.000	-9.000	-999.	47.	16.5	0.0220	0.72	1.00	1.00	211.0	15.0	281.1	2.0	0	0.00	78.	1006.	4	NAD-SFC	NoSubs
11	2	16	47	24	-3.7	0.086	-9.000	-9.000	-999.	61.	15.6	0.0220	0.72	1.00	1.50	224.0	15.0	280.8	2.0	0	0.00	81.	1006.	4	NAD-SFC	NoSubs
11	2	17	48	1	-3.7	0.086	-9.000	-9.000	-999.	61.	15.6	0.0220	0.72	1.00	1.50	206.0	15.0	280.5	2.0	0	0.00	83.	1006.	4	NAD-SFC	NoSubs
11	2	17	48	2	-3.8	0.087	-9.000	-9.000	-999.	62.	15.8	0.0240	0.72	1.00	1.50	162.0	15.0	280.2	2.0	0	0.00	84.	1006.	4	NAD-SFC	NoSubs
11	2	17	48	3	-16.1	0.182	-9.000	-9.000	-999.	187.	33.7	0.0280	0.72	1.00	3.10	131.0	15.0	280.2	2.0	0	0.00	85.	1006.	5	NAD-SFC	NoSubs
11	2	17	48	4	-21.1	0.214	-9.000	-9.000	-999.	237.	41.5	0.0280	0.72	1.00	3.60	134.0	15.0	280.5	2.0	0	0.00	87.	1006.	5	NAD-SFC	NoSubs
11	2	17	48	5	-21.0	0.246	-9.000	-9.000	-999.	293.	63.7	0.0280	0.72	1.00	4.10	131.0	15.0	280.6	2.0	0	0.00	88.	1006.	7	NAD-SFC	NoSubs
11	2	17	48	6	-21.3	0.278	-9.000	-9.000	-999.	352.	90.3	0.0280	0.72	1.00	4.60	127.0	15.0	280.8	2.0	0	0.00	88.	1007.	8	NAD-SFC	NoSubs
11	2	17	48	7	-26.3	0.309	-9.000	-9.000	-999.	412.	100.5	0.0280	0.72	1.00	5.10	135.0	15.0	280.9	2.0	0	0.00	87.	1007.	7	NAD-SFC	NoSubs
11	2	17	48	8	-3.4	0.321	-9.000	-9.000	-999.	437.	866.5	0.0280	0.72	0.44	5.10	131.0	15.0	281.6	2.0	0	0.00	82.	1007.	5	NAD-SFC	NoSubs
11	2	17	48	9	46.8	0.349	0.668	0.005	229.	494.	-81.6	0.0280	0.72	0.27	5.10	148.0	15.0	283.6	2.0	0	0.00	66.	1007.	4	NAD-SFC	NoSubs
11	2	17	48	10	91.0	0.294	1.047	0.005	453.	385.	-25.1	0.0240	0.72	0.21	4.10	161.0	15.0	285.2	2.0	0	0.00	55.	1006.	4	NAD-SFC	NoSubs
11	2	17	48	11	122.7	0.300	1.422	0.005	841.	395.	-19.8	0.0240	0.72	0.20	4.10	165.0	15.0	286.5	2.0	0	0.00	48.	1005.	4	NAD-SFC	NoSubs
11	2	17	48	12	140.4	0.303	1.745	0.005	1358.	401.	-17.8	0.0240	0.72	0.19	4.10	164.0	15.0	287.5	2.0	0	0.00	43.	1004.	4	NAD-SFC	NoSubs
11	2	17	48	13	145.1	0.333	1.825	0.005	1502.	460.	-22.7	0.0240	0.72	0.19	4.60	168.0	15.0	288.4	2.0	0	0.00	39.	1003.	3	NAD-SFC	NoSubs
11	2	17	48	14	133.3	0.355	1.821	0.005	1623.	509.	-30.1	0.0220	0.72	0.19	5.10	184.0	15.0	289.1	2.0	0	0.00	37.	1003.	3	NAD-SFC	NoSubs
11	2	17	48	15	106.9	0.414	1.724	0.005	1715.	639.	-59.4	0.0220	0.72	0.20	6.20	204.0	15.0	289.4	2.0	0	0.00	39.	1002.	3	NAD-SFC	NoSubs
11	2	17	48	16	66.6	0.285	1.487	0.005	1766.	376.	-31.1	0.0220	0.72	0.24	4.10	212.0	15.0	288.8	2.0	0	0.00	53.	1002.	3	NAD-SFC	NoSubs
11	2	17	48	17	17.5	0.325	0.955	0.005	1776.	445.	-175.5	0.0220	0.72	0.35	5.10	209.0	15.0	287.6	2.0	0	0.00	60.	1002.	4	NAD-SFC	NoSubs
11	2	17	48	18	-30.7	0.296	-9.000	-9.000	-999.	387.	75.4	0.0220	0.72	0.71	5.10	199.0	15.0	286.2	2.0	0	0.00	63.	1003.	3	NAD-SFC	NoSubs
11	2	17	48	19	-30.1	0.296	-9.000	-9.000	-999.	386.	76.9	0.0220	0.72	1.00	5.10	204.0	15.0	285.4	2.0	0	0.00	64.	1003.	4	NAD-SFC	NoSubs
11	2	17	48	20	-24.3	0.239	-9.000	-9.000	-999.	281.	50.1	0.0240	0.72	1.00	4.10	168.0	15.0	285.1	2.0	0	0.00	64.	1003.	4	NAD-SFC	NoSubs
11	2	17	48	21	-21.8	0.213	-9.000	-9.000	-999.	237.	39.9	0.0280	0.72	1.00	3.60	140.0	15.0	284.8	2.0	0	0.00	66.	1003.	4	NAD-SFC	NoSubs
11	2	17	48	22	-21.8	0.213	-9.000	-9.000	-999.	237.	39.9	0.0280	0.72	1.00	3.60	122.0	15.0	284.5	2.0	0	0.00	68.	1003.	4	NAD-SFC	NoSubs
11	2	17	48	23	-22.2	0.217	-9.000	-9.000	-999.	243.	41.3	0.0310	0.72	1.00	3.60	113.0	15.0	284.2	2.0	0	0.00	69.	1003.	4	NAD-SFC	NoSubs
11	2	17	48	24	-22.2	0.217	-9.000	-9.000	-999.	243.	41.2	0.0310	0.72	1.00	3.60	96.0	15.0	284.1	2.0	0	0.00	70.	1003.	4	NAD-SFC	NoSubs
11	2	18	49	1	-22.2	0.217	-9.000	-9.000	-999.	243.	41.2	0.0310	0.72	1.00	3.60	103.0	15.0	283.8	2.0	0	0.00	72.	1003.	4	NAD-SFC	NoSubs
11	2	18	49	2	-22.2	0.217	-9.000	-9.000	-999.	243.	41.2	0.0310	0.72	1.00	3.60	103.0	15.0	283.6	2.0	0	0.25	75.	1003.	4	NAD-SFC	NoSubs
11	2	18	49	3	-21.2	0.217	-9.000	-9.000	-999.	243.	43.4	0.0310	0.72	1.00	3.60	113.0	15.0	283.4	2.0	0	0.25	77.	1003.	5	NAD-SFC	NoSubs
11	2	18	49	4	-15.9	0.182	-9.000	-9.000	-999.	187.	33.9	0.0280	0.72	1.00	3.10	124.0	15.0	283.2	2.0	0	0.25	79.	1003.	5	NAD-SFC	NoSubs
11	2	18	49	5	-15.9	0.186	-9.000	-9.000	-999.	192.	36.1	0.0310	0.72	1.00	3.10	117.0	15.0	283.1	2.0	0	0.25	81.	1003.	6	NAD-SFC	NoSubs
11	2	18	49	6	-16.3	0.215	-9.000	-9.000	-999.	240.	54.6	0.0280	0.72	1.00	3.60	130.0	15.0	283.0	2.0	0	0.25	83.	1003.	8	NAD-SFC	NoSubs
11	2	18	49	7	-16.3	0.215	-9.000	-9.000	-999.	240.	54.6	0.0280	0.72	1.00	3.60	130.0	15.0	282.9	2.0	0	0.25	84.	1003.	8	NAD-SFC	NoSubs
11	2	18	49	8	0.2	0.230	0.045	0.005	15.	264.	-5152.6	0.0280	0.72	0.44	3.60	124.0	15.0	283.2	2.0	0	0.00	82.	1003.	7	NAD-SFC	NoSubs
11	2	18	49	9	45.0	0.263	0.717	0.005	293.	324.	-36.2	0.0310	0.72	0.27	3.60	118.0	15.0	284.4	2.0	0	0.00	75.	1003.	6	NAD-SFC	NoSubs
11	2	18	49	10	89.9	0.301	1.147	0.005	600.	396.	-27.0	0.0280	0.72	0.21	4.10	128.0	15.0	285.6	2.0	0	0.00	66.	1002.	5	NAD-SFC	NoSubs
11	2	18	49	11	120.2	0.307	1.402	0.005	821.	408.	-21.5	0.0280	0.72	0.20	4.10	139.0	15.0	286.2	2.0	0	0.00	64.	1002.	5	NAD-SFC	NoSubs
11	2	18	49	12	141.4	0.340	1.596	0.005	1028.	475.	-24.8	0.0280	0.72	0.19	4.60	137.0	15.0	286.8	2.0	0	0.00	64.	1001.	4	NAD-SFC	NoSubs
11	2	18	49	13	140.0	0.369	1.710	0.005	1277.	538.	-32.1	0.0280	0.72	0.19	5.10	136.0	15.0	287.2	2.0	0	0.00	63.	1000.	5	NAD-SFC	NoSubs
11	2	18	49	14	128.8	0.367	1.722	0.005	1415.	535.	-34.3	0.0280	0.72	0.19	5.10	137.0	15.0	287.8	2.0	0	0.00	64.	999.	5	NAD-SFC	NoSubs
11	2	18	49	15	103.9	0.239	1.634	0.005	1498.	290.	-11.7	0.0240	0.72	0.20	3.10	151.0	15.0	287.8	2.0	0	0.00	68.	998.	5	NAD-SFC	NoSubs
11	2	18	49	16	66.0	0.266	1.421	0.005	1548.	328.	-25.2	0.0280	0.72	0.24	3.60	136.0	15.0	287.5	2.0	0	0.00	72.	997.	5	NAD-SFC	NoSubs
11	2	18	49	17	18.2	0.405	0.928	0.005	1560.	617.	-323.2	0.0280	0.72	0.35	6.20	129.0	15.0	286.5	2.0	0	0.00	76.	997.	4	NAD-SFC	NoSubs
11	2	18	49	18	-43.4	0.441	-9.000	-9.000	-999.	702.	175.0	0.0280	0.72	0.70	7.20	123.0	15.0	286.0	2.0	0	0.00	76.	996.	4	NAD-SFC	NoSubs
11	2	18	49	19	-44.5	0.440	-9.000	-9.000	-999.	702.	170.7	0.0280	0.72	1.00	7.20	120.0	15.0	285.8	2.0	0	0.00	77.	996.	4	NAD-SFC	NoSubs
11	2	18	49	20	-41.3	0.409	-9.000	-9.000	-999.	628.	146.9	0.0280	0.72	1.00	6.70	124.0	15.0	285.8	2.0	0	0.00	78.	996.	4	NAD-SFC	NoSubs
11	2	18	49	21	-31.1	0.308	-9.000	-9.000	-999.	416.	83.3	0.0280	0.72	1.00	5.10	128.0	15.0	285.8	2.0	0	0.00	78.	996.	4	NAD-SFC	NoSubs
11	2	18	49	22	-24.1	0.239	-9.000	-9.000	-999.	282.	50.2	0.0240	0.72	1.00	4.10	153.0	15.0	286.0	2.0	0	0.25	76.	996.	4	NAD-SFC	NoSubs
11	2	18	49	23	-21.0	0.208	-9.000	-9.000	-999.	228.	38.2	0.0240	0.72	1.00	3.60	172.0	15.0	286.2	2.0	0	0.76	73.	997.	4	NAD-SFC	NoSubs
11	2	18	49	24	-15.2	0.175	-9.000	-9.000	-999.	176.	31.3	0.0220	0.72	1.00	3.10	195.0	15.0	286.1	2.0	0	0.76	73.	997.	4	NAD-SFC	NoSubs
11	2	19	50	1	-20.8	0.205	-9.000	-9.000	-999.	223.	37.1	0.0220	0.72	1.00	3.60	219.0	15.0	285.5	2.0	0	0.76	74.	998.	4	NAD-SFC	NoSubs
11	2	19	50	2	-25.3	0.262	-9.000	-9.000	-999.	322.	63.3	0.0200	0.72	1.00	4.60	249.0	15.0	284.8	2.0	0	1.02	79.	998.	5	NAD-SFC	NoSubs
11	2	19	50	3	-23.8	0.262	-9.000	-9.000	-999.	323.	67.6	0.0200	0.72	1.00	4.60	268.0	15.0	284.0	2.0	0	1.02	84.	999.	6	NAD-SFC	NoSubs
11	2	19	50	4	-22.2	0.229	-9.000	-9.000	-999.	264.	48.2	0.0420	0.72	1.00	3.60	286.0	15.0	283.6	2.0	0	0.51	86.	999.	5	NAD-SFC	NoSubs
11	2	19	50	5	-7.9	0.128	-9.000	-9.000	-999.	115.	24.0	0.0420	0.72	1.00	2.10	289.0	15.0	283.2	2.0	0	0.25	86.	1000.	5	NAD-SFC	NoSubs
11	2	19	50	6	-0.8	0.062	-9.000	-9.000	-999.	39.	25.1	0.0420	0.72	1.00	0.50	278.0	15.0	283.1	2.0	0	0.51	86.	1000.	7	NAD-SFC	NoSubs
11	2	19	50	7	-0.8	0.060	-9.000	-9.000	-999.	35.	24.2	0.0280	0.72	1.00	0.50	120.0	15.0	283.0	2.0	0	1.27	86.	1001.	7	NAD-SFC	NoSubs
11	2	19	50	8	0.0	0.097	0.017	0.005	6.	73.	-2758.6	0.0310	0.72	0.43	1.50	107.0	15.0	282.8	2.0	0	1.78	85.	1001.	8	NAD-SFC	NoSubs
11	2	19	50	9	8.1	0.050	0.271	0.005	88.	27.	-1.4	0.0220	0.72	0.26	0.50	204.0	15.0	283.0	2.0	0	2.03	81.	1001.	10	NAD-SFC	NoSubs
11	2	19	50	10	76.4	0.198	1.074	0.005	578.	212.	-9.1	0.0200	0.72	0.21	2.60	261.0	15.0	283.2	2.0	0	3.30	75.	1001.	7	NAD-SFC	NoSubs
11	2	19	50	11	101.7	0.359	1.340	0.005	846.	516.	-40.5	0.0800	0.72	0.19	4.10	310.0	15.0	283.4	2.0	0	3.30	72.	1001.	7	NAD-SFC	NoSubs
11	2	19	50	12	115.8	0.264	1.518	0.005	1078.	330.	-14.1	0.0950	0.72	0.19	2.60	353.0	15.0	284.2	2.0	0	1.27	63.	1000.	7	NAD-SFC	NoSubs
11	2	19	50	13	118.3	0.227	1.617	0.005	1277.	260.	-8.8	0.0950	0.72	0.19	2.10	342.0	15.0	284.8	2.0	0	1.27	58.	1000.	7	NAD-SFC	NoSubs
11	2	19	50	14	129.3	0.141	1.738	0.005	1451.	129.	-1.9	0.0960	0.72	0.19	1.00	2.0	15.0	284.9	2.0	0	1.52	55.	999.	5	NAD-SFC	NoSubs
11	2	19	50	15	104.3	0.069	1.663	0.005	1573.	45.	-1.0	0.0220	0.72	0.20	0.50	207.0	15.0	285.2	2.0	0	1.27	51.	999.	5	NAD-SFC	NoSubs
11	2	19	50	16	67.9	0.167	1.463	0.005	1646.	164.	-6.1	0.0200	0.72	0.24	2.10	247.0	15.0	285.0	2.0	0	0.51	49.	999.	3	NAD-SFC	NoSubs
11	2	19	50	17	17.5	0.056	0.935	0.005	1663.	43.	-1.0	0.0240	0.72	0.34	0.50	154.0	15.0	284.4	2.0	0	0.51	55.	999.	3	NAD-SFC	NoSubs
11	2	19	50	18	-3.9	0.089	-9.000	-9.000	-999.	64.	16.2	0.0280	0.72	0.68	1.50	147.0	15.0	283.8	2.0	0	0.51	61.	1000.	3	NAD-SFC	NoSubs
11	2	19	50	19	-6.8	0.115	-9.000	-9.000	-999.	94.	19.9	0.0220	0.72	1.00	2.10	192.0	15.0	283.1	2.0	0	0.51	65.	1001.	4	NAD-SFC	NoSubs
11	2	19	50	20	-6.9	0.115	-9.000	-9.000	-999.	94.	19.9	0.0220	0.72	1.00	2.10	220.0	15.0	282.8	2.0	0	0.51	68.	1002.	4	NAD-SFC	NoSubs
11	2	19	50	21	-6.9	0.115	-9.000	-9.000	-999.	94.	19.9	0.0220	0.72	1.00	2.10	228.0	15.0	282.2	2.0	0	0.25	71.	1002.	4	NAD-SFC	NoSubs
11	2	19	50	22	-10.7	0.144	-9.000	-9.000	-999.	132.	25.2	0.0220	0.72	1.00	2.60	239.0	15.0	281.9	2.0	0	0.00	74.	1003.	4	NAD-SFC	NoSubs
11	2	19	50	23	-15.1	0.172	-9.000	-9.000	-999.	171.	30.3	0.0200	0.72	1.00	3.10	247.0	15.0	281.4	2.0	0	0.00	78.	1004.	4	NAD-SFC	NoSubs
11	2	19	50	24	-18.2	0.195	-9.000	-9.000	-999.	207.	36.4	0.0420	0.72	1.00	3.10	278.0	15.0	280.6	2.0	0	0.00	83.	1004.	4	NAD-SFC	NoSubs
11	2	20	51	1	-23.8	0.229	-9.000	-9.000	-999.	263.	45.1	0.0420	0.72	1.00	3.60	288.0	15.0	279.8	2.0	0	0.00	86.	1005.	4	NAD-SFC	NoSubs
11	2	20	51	2	-30.9	0.296	-9.000	-9.000	-999.	387.	75.5	0.0800	0.72	1.00	4.10	313.0	15.0	279.1	2.0	0	0.00	86.	1006.	4	NAD-SFC	NoSubs

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11  2 20  51  3  -31.0  0.296 -9.000 -9.000 -999.  387.    75.3  0.0800  0.72  1.00   4.10  324.0  15.0  278.4  2.0   0  0.00  87.  1006.   4 NAD-SFC NoSubs
11  2 20  51  4  -29.6  0.297 -9.000 -9.000 -999.  388.    79.1  0.0800  0.72  1.00   4.10  321.0  15.0  277.8  2.0   0  0.00  85.  1007.   5 NAD-SFC NoSubs
11  2 20  51  5  -22.5  0.260 -9.000 -9.000 -999.  318.    70.1  0.0800  0.72  1.00   3.60  308.0  15.0  276.9  2.0   0  0.00  81.  1008.   7 NAD-SFC NoSubs
11  2 20  51  6  -26.1  0.259 -9.000 -9.000 -999.  316.    59.9  0.0800  0.72  1.00   3.60  303.0  15.0  276.1  2.0   0  0.00  79.  1009.   5 NAD-SFC NoSubs
11  2 20  51  7  -27.4  0.259 -9.000 -9.000 -999.  315.    56.7  0.0800  0.72  1.00   3.60  302.0  15.0  275.5  2.0   0  0.00  80.  1010.   4 NAD-SFC NoSubs
11  2 20  51  8   -5.3  0.401 -9.000 -9.000 -999.  609.  1094.0  0.0950  0.72  0.42   5.10  335.0  15.0  277.0  2.0   0  0.00  64.  1011.   3 NAD-SFC NoSubs
11  2 20  51  9   49.1  0.428  0.695  0.005  247.  671.  -143.7  0.0950  0.72  0.26   5.10  342.0  15.0  278.6  2.0   0  0.00  50.  1011.   3 NAD-SFC NoSubs
11  2 20  51 10   94.1  0.368  1.065  0.005  464.  538.   -47.6  0.0950  0.72  0.21   4.10  337.0  15.0  279.8  2.0   0  0.00  43.  1011.   3 NAD-SFC NoSubs
11  2 20  51 11  126.4  0.302  1.407  0.005  795.  401.   -19.7  0.0950  0.72  0.19   3.10  333.0  15.0  281.0  2.0   0  0.00  40.  1011.   3 NAD-SFC NoSubs
11  2 20  51 12  144.3  0.269  1.599  0.005 1022.  336.   -12.2  0.0950  0.72  0.19   2.60  332.0  15.0  282.0  2.0   0  0.00  37.  1011.   3 NAD-SFC NoSubs
11  2 20  51 13  147.4  0.225  1.674  0.005 1148.  256.    -6.9  0.0800  0.72  0.19   2.10  318.0  15.0  282.9  2.0   0  0.00  35.  1010.   3 NAD-SFC NoSubs
11  2 20  51 14  135.5  0.259  1.676  0.005 1253.  317.   -11.6  0.0800  0.72  0.19   2.60  310.0  15.0  283.5  2.0   0  0.00  33.  1010.   3 NAD-SFC NoSubs
11  2 20  51 15  109.0  0.254  1.590  0.005 1331.  308.   -13.6  0.0800  0.72  0.20   2.60  314.0  15.0  283.9  2.0   0  0.00  33.  1010.   3 NAD-SFC NoSubs
11  2 20  51 16   68.8  0.245  1.389  0.005 1403.  291.   -19.2  0.0800  0.72  0.24   2.60  316.0  15.0  283.9  2.0   0  0.00  33.  1009.   3 NAD-SFC NoSubs
11  2 20  51 17   18.4  0.188  0.899  0.005 1422.  196.   -32.3  0.0800  0.72  0.34   2.10  328.0  15.0  283.5  2.0   0  0.00  38.  1009.   3 NAD-SFC NoSubs
11  2 20  51 18  -10.5  0.150 -9.000 -9.000 -999.  140.    28.9  0.0950  0.72  0.67   2.10  337.0  15.0  282.8  2.0   0  0.00  41.  1010.   2 NAD-SFC NoSubs
11  2 20  51 19  -10.7  0.150 -9.000 -9.000 -999.  139.    28.3  0.0950  0.72  1.00   2.10  355.0  15.0  281.8  2.0   0  0.00  45.  1010.   2 NAD-SFC NoSubs
11  2 20  51 20   -3.0  0.087 -9.000 -9.000 -999.   63.    20.0  0.0960  0.72  1.00   1.00   11.0  15.0  280.6  2.0   0  0.00  50.  1010.   2 NAD-SFC NoSubs
11  2 20  51 21   -1.0  0.068 -9.000 -9.000 -999.   42.    27.0  0.0310  0.72  1.00   0.50   95.0  15.0  279.4  2.0   0  0.00  56.  1011.   2 NAD-SFC NoSubs
11  2 20  51 22   -4.1  0.090 -9.000 -9.000 -999.   65.    16.1  0.0280  0.72  1.00   1.50  136.0  15.0  278.1  2.0   0  0.00  63.  1011.   2 NAD-SFC NoSubs
11  2 20  51 23   -2.3  0.076 -9.000 -9.000 -999.   51.    17.3  0.0280  0.72  1.00   1.00  126.0  15.0  277.2  2.0   0  0.00  67.  1011.   2 NAD-SFC NoSubs
11  2 20  51 24   -2.4  0.077 -9.000 -9.000 -999.   51.    17.5  0.0310  0.72  1.00   1.00  100.0  15.0  276.8  2.0   0  0.00  70.  1010.   2 NAD-SFC NoSubs
11  2 21  52  1   -2.4  0.077 -9.000 -9.000 -999.   52.    17.5  0.0310  0.72  1.00   1.00  110.0  15.0  276.4  2.0   0  0.00  71.  1010.   2 NAD-SFC NoSubs
11  2 21  52  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  276.2  2.0   0  0.00  72.  1010.   2 NAD-SFC NoSubs
11  2 21  52  3   -1.0  0.066 -9.000 -9.000 -999.   40.    26.1  0.0200  0.72  1.00   0.50  268.0  15.0  275.9  2.0   0  0.00  73.  1010.   2 NAD-SFC NoSubs
11  2 21  52  4   -1.1  0.070 -9.000 -9.000 -999.   44.    27.9  0.0420  0.72  1.00   0.50  298.0  15.0  275.6  2.0   0  0.00  74.  1009.   2 NAD-SFC NoSubs
11  2 21  52  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  275.4  2.0   0  0.00  74.  1009.   2 NAD-SFC NoSubs
11  2 21  52  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  275.2  2.0   0  0.00  74.  1009.   2 NAD-SFC NoSubs
11  2 21  52  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  275.2  2.0   0  0.00  74.  1009.   2 NAD-SFC NoSubs
11  2 21  52  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.42   0.00    0.0  15.0  275.2  2.0   0  0.00  75.  1009.   2 NAD-SFC NoSubs
11  2 21  52  9   48.9 -9.000 -9.000 -9.000  130. -999. -99999.0  0.0471  0.72  0.26   0.00    0.0  15.0  277.8  2.0   0  0.00  60.  1009.   2 NAD-SFC NoSubs
11  2 21  52 10   94.5 -9.000 -9.000 -9.000  346. -999. -99999.0  0.0471  0.72  0.21   0.00    0.0  15.0  279.8  2.0   0  0.00  52.  1009.   2 NAD-SFC NoSubs
11  2 21  52 11  127.2 -9.000 -9.000 -9.000  656. -999. -99999.0  0.0471  0.72  0.19   0.00    0.0  15.0  281.5  2.0   0  0.00  44.  1008.   2 NAD-SFC NoSubs
11  2 21  52 12  145.3 -9.000 -9.000 -9.000  857. -999. -99999.0  0.0471  0.72  0.19   0.00    0.0  15.0  282.6  2.0   0  0.00  39.  1007.   2 NAD-SFC NoSubs
11  2 21  52 13  148.4 -9.000 -9.000 -9.000 1003. -999. -99999.0  0.0471  0.72  0.19   0.00    0.0  15.0  283.5  2.0   0  0.00  37.  1006.   2 NAD-SFC NoSubs
11  2 21  52 14  136.4  0.090  1.604  0.006 1087.   64.    -1.0  0.0800  0.72  0.19   0.50  323.0  15.0  284.0  2.0   0  0.00  35.  1005.   2 NAD-SFC NoSubs
11  2 21  52 15  109.5  0.179  1.519  0.006 1149.  182.    -4.7  0.0950  0.72  0.20   1.50  348.0  15.0  284.1  2.0   0  0.00  35.  1005.   2 NAD-SFC NoSubs
11  2 21  52 16   68.8 -9.000 -9.000 -9.000 1186. -999. -99999.0  0.0471  0.72  0.23   0.00    0.0  15.0  283.9  2.0   0  0.00  40.  1004.   2 NAD-SFC NoSubs
11  2 21  52 17   17.7  0.229  0.840  0.006 1195.  264.   -61.0  0.0960  0.72  0.33   2.60    8.0  15.0  283.2  2.0   0  0.00  45.  1004.   2 NAD-SFC NoSubs
11  2 21  52 18  -10.5  0.150 -9.000 -9.000 -999.  142.    29.1  0.0960  0.72  0.67   2.10   21.0  15.0  282.6  2.0   0  0.00  48.  1004.   2 NAD-SFC NoSubs
11  2 21  52 19   -2.7  0.083 -9.000 -9.000 -999.   59.    19.0  0.0650  0.72  1.00   1.00   32.0  15.0  282.1  2.0   0  0.00  51.  1004.   2 NAD-SFC NoSubs
11  2 21  52 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  281.5  2.0   0  0.00  54.  1005.   2 NAD-SFC NoSubs
11  2 21  52 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  280.8  2.0   0  0.00  58.  1005.   2 NAD-SFC NoSubs
11  2 21  52 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  279.9  2.0   0  0.00  63.  1005.   2 NAD-SFC NoSubs
11  2 21  52 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  279.0  2.0   0  0.00  67.  1005.   3 NAD-SFC NoSubs
11  2 21  52 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  278.2  2.0   0  0.00  71.  1005.   3 NAD-SFC NoSubs
11  2 22  53  1   -1.1  0.069 -9.000 -9.000 -999.   44.    27.7  0.0400  0.72  1.00   0.50   76.0  15.0  277.5  2.0   0  0.00  74.  1006.   2 NAD-SFC NoSubs
11  2 22  53  2   -1.2  0.073 -9.000 -9.000 -999.   47.    28.9  0.0650  0.72  1.00   0.50   30.0  15.0  277.0  2.0   0  0.00  75.  1006.   2 NAD-SFC NoSubs
11  2 22  53  3   -1.3  0.076 -9.000 -9.000 -999.   50.    29.9  0.0950  0.72  1.00   0.50  350.0  15.0  277.0  2.0   0  0.00  76.  1006.   2 NAD-SFC NoSubs
11  2 22  53  4   -5.6  0.109 -9.000 -9.000 -999.   86.    20.6  0.0950  0.72  1.00   1.50  336.0  15.0  276.8  2.0   0  0.00  77.  1007.   2 NAD-SFC NoSubs
11  2 22  53  5  -10.8  0.150 -9.000 -9.000 -999.  139.    28.0  0.0950  0.72  1.00   2.10  354.0  15.0  276.5  2.0   0  0.00  79.  1007.   2 NAD-SFC NoSubs
11  2 22  53  6  -10.8  0.150 -9.000 -9.000 -999.  139.    28.0  0.0950  0.72  1.00   2.10  340.0  15.0  276.0  2.0   0  0.00  80.  1008.   2 NAD-SFC NoSubs
11  2 22  53  7   -5.6  0.109 -9.000 -9.000 -999.   86.    20.6  0.0950  0.72  1.00   1.50  335.0  15.0  275.6  2.0   0  0.00  81.  1008.   2 NAD-SFC NoSubs
11  2 22  53  8   -1.3  0.109 -9.000 -9.000 -999.   86.    92.7  0.0800  0.72  0.41   1.50  320.0  15.0  276.2  2.0   0  0.00  77.  1008.   2 NAD-SFC NoSubs
11  2 22  53  9   50.5  0.121  0.555  0.005  121.  101.    -3.2  0.0800  0.72  0.26   1.00  324.0  15.0  279.6  2.0   0  0.00  58.  1009.   2 NAD-SFC NoSubs
11  2 22  53 10   96.2  0.171  1.039  0.005  420.  170.    -4.7  0.0800  0.72  0.21   1.50  327.0  15.0  281.8  2.0   0  0.00  51.  1009.   2 NAD-SFC NoSubs
11  2 22  53 11  129.0  0.182  1.354  0.005  693.  187.    -4.2  0.0950  0.72  0.19   1.50  334.0  15.0  283.5  2.0   0  0.00  42.  1008.   2 NAD-SFC NoSubs
11  2 22  53 12  147.1  0.179  1.552  0.005  915.  182.    -3.5  0.0800  0.72  0.19   1.50  316.0  15.0  284.8  2.0   0  0.00  37.  1008.   2 NAD-SFC NoSubs
11  2 22  53 13  150.3  0.179  1.657  0.005 1089.  182.    -3.4  0.0800  0.72  0.19   1.50  319.0  15.0  285.8  2.0   0  0.00  34.  1007.   2 NAD-SFC NoSubs
11  2 22  53 14  138.3  0.260  1.676  0.005 1224.  318.   -11.4  0.0800  0.72  0.19   2.60  324.0  15.0  286.4  2.0   0  0.00  32.  1007.   2 NAD-SFC NoSubs
11  2 22  53 15  111.4  0.300  1.600  0.005 1323.  394.   -21.7  0.0950  0.72  0.20   3.10  334.0  15.0  286.6  2.0   0  0.00  33.  1007.   2 NAD-SFC NoSubs
11  2 22  53 16   70.7  0.289  1.390  0.005 1367.  373.   -30.7  0.0950  0.72  0.23   3.10  342.0  15.0  286.6  2.0   0  0.00  33.  1007.   2 NAD-SFC NoSubs
11  2 22  53 17   19.5  0.194  0.908  0.005 1377.  209.   -33.7  0.0950  0.72  0.33   2.10  333.0  15.0  286.2  2.0   0  0.00  40.  1007.   2 NAD-SFC NoSubs
11  2 22  53 18   -5.1  0.104 -9.000 -9.000 -999.   85.    20.3  0.0800  0.72  0.66   1.50  311.0  15.0  285.2  2.0   0  0.00  42.  1007.   2 NAD-SFC NoSubs
11  2 22  53 19   -8.3  0.128 -9.000 -9.000 -999.  110.    22.6  0.0420  0.72  1.00   2.10  288.0  15.0  284.1  2.0   0  0.00  45.  1007.   2 NAD-SFC NoSubs
11  2 22  53 20   -8.4  0.128 -9.000 -9.000 -999.  110.    22.5  0.0420  0.72  1.00   2.10  276.0  15.0  283.0  2.0   0  0.00  49.  1007.   2 NAD-SFC NoSubs
11  2 22  53 21   -8.4  0.128 -9.000 -9.000 -999.  110.    22.5  0.0420  0.72  1.00   2.10  286.0  15.0  282.0  2.0   0  0.00  52.  1008.   2 NAD-SFC NoSubs
11  2 22  53 22  -15.8  0.182 -9.000 -9.000 -999.  187.    34.4  0.0800  0.72  1.00   2.60  309.0  15.0  280.9  2.0   0  0.00  57.  1008.   2 NAD-SFC NoSubs
11  2 22  53 23  -15.8  0.182 -9.000 -9.000 -999.  186.    34.3  0.0800  0.72  1.00   2.60  315.0  15.0  279.8  2.0   0  0.00  63.  1008.   2 NAD-SFC NoSubs
11  2 22  53 24  -13.1  0.161 -9.000 -9.000 -999.  155.    28.5  0.0420  0.72  1.00   2.60  297.0  15.0  278.8  2.0   0  0.00  69.  1008.   2 NAD-SFC NoSubs
11  2 23  54  1  -18.9  0.194 -9.000 -9.000 -999.  206.    34.9  0.0420  0.72  1.00   3.10  296.0  15.0  278.1  2.0   0  0.00  73.  1008.   2 NAD-SFC NoSubs
11  2 23  54  2  -19.0  0.194 -9.000 -9.000 -999.  206.    34.9  0.0420  0.72  1.00   3.10  298.0  15.0  277.4  2.0   0  0.00  77.  1009.   2 NAD-SFC NoSubs
11  2 23  54  3  -15.9  0.182 -9.000 -9.000 -999.  186.    34.0  0.0800  0.72  1.00   2.60  310.0  15.0  276.8  2.0   0  0.00  79.  1009.   2 NAD-SFC NoSubs
11  2 23  54  4  -13.2  0.161 -9.000 -9.000 -999.  155.    28.3  0.0420  0.72  1.00   2.60  299.0  15.0  276.2  2.0   0  0.00  81.  1009.   2 NAD-SFC NoSubs
11  2 23  54  5  -10.1  0.145 -9.000 -9.000 -999.  132.    26.9  0.0800  0.72  1.00   2.10  301.0  15.0  275.9  2.0   0  0.00  82.  1009.   3 NAD-SFC NoSubs
11  2 23  54  6   -4.4  0.095 -9.000 -9.000 -999.   71.    17.4  0.0420  0.72  1.00   1.50  293.0  15.0  275.5  2.0   0  0.00  82.  1010.   3 NAD-SFC NoSubs
11  2 23  54  7   -4.4  0.095 -9.000 -9.000 -999.   70.    17.3  0.0420  0.72  1.00   1.50  295.0  15.0  275.1  2.0   0  0.00  83.  1010.   3 NAD-SFC NoSubs
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11  2 23  54  8   -1.1  0.196 -9.000 -9.000 -999.  208.     590.8  0.0800  0.72  0.41   2.60  321.0  15.0  276.1   2.0    0   0.00   77.  1010.     2 NAD-SFC NoSubs
11  2 23  54  9   51.6  0.210  0.611  0.007  159.  230.     -16.1  0.0950  0.72  0.26   2.10  342.0  15.0  277.8   2.0    0   0.00   67.  1010.     2 NAD-SFC NoSubs
11  2 23  54 10   97.2  0.135  0.943  0.006  311.  121.      -2.3  0.0950  0.72  0.21   1.00  331.0  15.0  279.5   2.0    0   0.00   59.  1010.     2 NAD-SFC NoSubs
11  2 23  54 11  129.8  0.079  1.205  0.005  485.   54.      -1.0  0.0420  0.72  0.19   0.50  299.0  15.0  281.0   2.0    0   0.00   53.  1010.     2 NAD-SFC NoSubs
11  2 23  54 12  147.9  0.123  1.403  0.005  673.  103.      -1.1  0.0420  0.72  0.19   1.00  296.0  15.0  282.2   2.0    0   0.00   49.  1009.     2 NAD-SFC NoSubs
11  2 23  54 13  151.0  0.161  1.543  0.006  875.  154.      -2.5  0.0420  0.72  0.19   1.50  296.0  15.0  283.4   2.0    0   0.00   44.  1008.     2 NAD-SFC NoSubs
11  2 23  54 14  138.9  0.223  1.573  0.007 1009.  253.      -7.2  0.0800  0.72  0.19   2.10  315.0  15.0  284.2   2.0    0   0.00   40.  1008.     2 NAD-SFC NoSubs
11  2 23  54 15  112.1  0.255  1.500  0.007 1084.  309.     -13.3  0.0800  0.72  0.20   2.60  316.0  15.0  284.6   2.0    0   0.00   37.  1008.     2 NAD-SFC NoSubs
11  2 23  54 16   71.3  0.245  1.308  0.007 1129.  291.     -18.6  0.0800  0.72  0.23   2.60  327.0  15.0  284.6   2.0    0   0.00   36.  1007.     2 NAD-SFC NoSubs
11  2 23  54 17   20.0  0.231  0.860  0.007 1140.  266.     -55.0  0.0950  0.72  0.33   2.60  346.0  15.0  284.2   2.0    0   0.00   41.  1007.     2 NAD-SFC NoSubs
11  2 23  54 18  -23.4  0.229 -9.000 -9.000 -999.  264.      46.3  0.0960  0.72  0.65   3.10    6.0  15.0  283.2   2.0    0   0.00   44.  1008.     2 NAD-SFC NoSubs
11  2 23  54 19  -10.7  0.150 -9.000 -9.000 -999.  142.      28.4  0.0960  0.72  1.00   2.10   25.0  15.0  282.2   2.0    0   0.00   47.  1009.     2 NAD-SFC NoSubs
11  2 23  54 20   -1.1  0.069 -9.000 -9.000 -999.   47.      27.7  0.0420  0.72  1.00   0.50  282.0  15.0  281.1   2.0    0   0.00   52.  1009.     2 NAD-SFC NoSubs
11  2 23  54 21   -2.2  0.074 -9.000 -9.000 -999.   48.      16.6  0.0200  0.72  1.00   1.00  242.0  15.0  279.8   2.0    0   0.00   59.  1010.     2 NAD-SFC NoSubs
11  2 23  54 22   -2.1  0.073 -9.000 -9.000 -999.   47.      16.5  0.0200  0.72  1.00   1.00  260.0  15.0  278.8   2.0    0   0.00   63.  1011.     3 NAD-SFC NoSubs
11  2 23  54 23   -2.5  0.079 -9.000 -9.000 -999.   53.      18.0  0.0420  0.72  1.00   1.00  288.0  15.0  277.9   2.0    0   0.00   66.  1011.     3 NAD-SFC NoSubs
11  2 23  54 24   -2.8  0.085 -9.000 -9.000 -999.   59.      19.5  0.0800  0.72  1.00   1.00  313.0  15.0  277.2   2.0    0   0.00   69.  1012.     3 NAD-SFC NoSubs
11  2 24  55  1   -2.8  0.085 -9.000 -9.000 -999.   59.      19.5  0.0800  0.72  1.00   1.00  313.0  15.0  276.8   2.0    0   0.00   71.  1012.     3 NAD-SFC NoSubs
11  2 24  55  2   -2.8  0.085 -9.000 -9.000 -999.   59.      19.5  0.0800  0.72  1.00   1.00  312.0  15.0  276.5   2.0    0   0.00   75.  1012.     3 NAD-SFC NoSubs
11  2 24  55  3   -2.8  0.085 -9.000 -9.000 -999.   59.      19.5  0.0800  0.72  1.00   1.00  312.0  15.0  276.0   2.0    0   0.00   79.  1012.     3 NAD-SFC NoSubs
11  2 24  55  4   -2.8  0.085 -9.000 -9.000 -999.   59.      19.5  0.0800  0.72  1.00   1.00  301.0  15.0  275.4   2.0    0   0.00   83.  1012.     3 NAD-SFC NoSubs
11  2 24  55  5   -2.5  0.079 -9.000 -9.000 -999.   53.      18.0  0.0420  0.72  1.00   1.00  284.0  15.0  274.9   2.0    0   0.00   86.  1012.     3 NAD-SFC NoSubs
11  2 24  55  6   -1.0  0.065 -9.000 -9.000 -999.   40.      26.1  0.0220  0.72  1.00   0.50  237.0  15.0  274.5   2.0    0   0.00   89.  1013.     3 NAD-SFC NoSubs
11  2 24  55  7   -1.0  0.065 -9.000 -9.000 -999.   40.      26.1  0.0220  0.72  1.00   0.50  196.0  15.0  274.2   2.0    0   0.00   90.  1013.     3 NAD-SFC NoSubs
11  2 24  55  8    1.7  0.043  0.093  0.010   17.   22.      -4.3  0.0240  0.72  0.40   0.50  169.0  15.0  275.2   2.0    0   0.00   87.  1013.     3 NAD-SFC NoSubs
11  2 24  55  9   52.9 -9.000 -9.000 -9.000  177. -999. -99999.0  0.0471  0.72  0.25   0.00    0.0  15.0  277.8   2.0    0   0.00   77.  1014.     2 NAD-SFC NoSubs
11  2 24  55 10   98.6 -9.000 -9.000 -9.000  333. -999. -99999.0  0.0471  0.72  0.21   0.00    0.0  15.0  279.9   2.0    0   0.00   65.  1014.     2 NAD-SFC NoSubs
11  2 24  55 11  131.2 -9.000 -9.000 -9.000  500. -999. -99999.0  0.0471  0.72  0.19   0.00    0.0  15.0  281.5   2.0    0   0.00   57.  1013.     2 NAD-SFC NoSubs
11  2 24  55 12  149.3 -9.000 -9.000 -9.000  657. -999. -99999.0  0.0471  0.72  0.19   0.00    0.0  15.0  282.8   2.0    0   0.00   51.  1012.     2 NAD-SFC NoSubs
11  2 24  55 13  152.3 -9.000 -9.000 -9.000 1008. -999. -99999.0  0.0471  0.72  0.19   0.00    0.0  15.0  283.8   2.0    0   0.00   47.  1011.     2 NAD-SFC NoSubs
11  2 24  55 14  140.2  0.090  1.658  0.008 1172.   65.      -1.0  0.0800  0.72  0.19   0.50  305.0  15.0  284.2   2.0    0   0.00   44.  1010.     2 NAD-SFC NoSubs
11  2 24  55 15  113.2  0.138  1.593  0.010 1289.  123.      -2.1  0.0950  0.72  0.20   1.00  345.0  15.0  284.4   2.0    0   0.00   43.  1010.     2 NAD-SFC NoSubs
11  2 24  55 16   72.3  0.171  1.392  0.010 1344.  170.      -6.2  0.0960  0.72  0.23   1.50   13.0  15.0  283.6   2.0    0   0.00   56.  1009.     2 NAD-SFC NoSubs
11  2 24  55 17   22.4  0.152  0.944  0.010 1350.  143.     -14.2  0.0960  0.72  0.32   1.50    2.0  15.0  283.2   2.0    0   0.00   59.  1009.     3 NAD-SFC NoSubs
11  2 24  55 18   -1.2  0.072 -9.000 -9.000 -999.   49.      28.6  0.0950  0.72  0.64   0.50  354.0  15.0  283.0   2.0    0   0.00   62.  1009.     3 NAD-SFC NoSubs
11  2 24  55 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  282.6   2.0    0   0.00   64.  1009.     4 NAD-SFC NoSubs
11  2 24  55 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  282.2   2.0    0   0.00   67.  1009.     4 NAD-SFC NoSubs
11  2 24  55 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  282.0   2.0    0   0.00   69.  1009.     4 NAD-SFC NoSubs
11  2 24  55 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  281.8   2.0    0   0.00   70.  1009.     4 NAD-SFC NoSubs
11  2 24  55 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  281.5   2.0    0   0.00   71.  1009.     4 NAD-SFC NoSubs
11  2 24  55 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00   0.00    0.0  15.0  281.5   2.0    0   0.00   73.  1009.     5 NAD-SFC NoSubs
11  2 25  56  1   -0.5  0.050 -9.000 -9.000 -999.   26.      20.8  0.0240  0.72  1.00   0.50  164.0  15.0  281.2   2.0    0   0.00   76.  1008.    10 NAD-SFC NoSubs
11  2 25  56  2   -1.3  0.062 -9.000 -9.000 -999.   37.      15.9  0.0280  0.72  1.00   1.00  125.0  15.0  280.8   2.0    0   0.25   80.  1008.    10 NAD-SFC NoSubs
11  2 25  56  3  -10.5  0.185 -9.000 -9.000 -999.  191.      54.6  0.0280  0.72  1.00   3.10  128.0  15.0  280.5   2.0    0   1.02   85.  1007.    10 NAD-SFC NoSubs
11  2 25  56  4  -14.0  0.248 -9.000 -9.000 -999.  297.      97.7  0.0280  0.72  1.00   4.10  127.0  15.0  280.2   2.0    0   1.27   87.  1007.    10 NAD-SFC NoSubs
11  2 25  56  5  -17.6  0.311 -9.000 -9.000 -999.  417.     153.9  0.0280  0.72  1.00   5.10  125.0  15.0  280.2   2.0    0   1.52   89.  1006.    10 NAD-SFC NoSubs
11  2 25  56  6  -17.6  0.311 -9.000 -9.000 -999.  417.     153.9  0.0280  0.72  1.00   5.10  133.0  15.0  280.2   2.0    0   1.52   91.  1006.    10 NAD-SFC NoSubs
11  2 25  56  7  -15.8  0.280 -9.000 -9.000 -999.  355.     124.3  0.0280  0.72  1.00   4.60  142.0  15.0  280.6   2.0    0   1.27   93.  1005.    10 NAD-SFC NoSubs
11  2 25  56  8   -6.6  0.285 -9.000 -9.000 -999.  365.     314.8  0.0280  0.72  0.40   4.60  143.0  15.0  281.0   2.0    0   1.02   93.  1005.    10 NAD-SFC NoSubs
11  2 25  56  9   38.6  0.309  0.577  0.006  178.  413.     -68.7  0.0240  0.72  0.25   4.60  152.0  15.0  282.0   2.0    0   0.51   89.  1004.     8 NAD-SFC NoSubs
11  2 25  56 10   82.7  0.299  0.956  0.006  378.  393.     -29.0  0.0280  0.72  0.21   4.10  146.0  15.0  283.5   2.0    0   0.51   84.  1004.     7 NAD-SFC NoSubs
11  2 25  56 11  108.4  0.269  1.167  0.006  524.  335.     -16.0  0.0240  0.72  0.19   3.60  173.0  15.0  285.4   2.0    0   0.25   77.  1003.     7 NAD-SFC NoSubs
11  2 25  56 12   35.0  0.247  0.820  0.005  564.  294.     -38.4  0.0220  0.72  0.19   3.60  216.0  15.0  286.8   2.0    0   0.51   73.  1002.    10 NAD-SFC NoSubs
11  2 25  56 13   35.8  0.329  0.845  0.005  601.  452.     -88.6  0.0200  0.72  0.19   5.10  246.0  15.0  287.1   2.0    0   0.51   73.  1001.    10 NAD-SFC NoSubs
11  2 25  56 14   32.7  0.299  0.834  0.005  633.  393.     -73.1  0.0200  0.72  0.19   4.60  260.0  15.0  287.0   2.0    0   0.51   77.  1001.    10 NAD-SFC NoSubs
11  2 25  56 15   25.7  0.240  0.780  0.005  657.  283.     -47.6  0.0200  0.72  0.20   3.60  265.0  15.0  286.5   2.0    0   1.02   83.  1000.    10 NAD-SFC NoSubs
11  2 25  56 16   51.2  0.249  1.008  0.005  713.  298.     -26.8  0.0200  0.72  0.23   3.60  261.0  15.0  285.9   2.0    0   0.76   87.  1000.     8 NAD-SFC NoSubs
11  2 25  56 17   25.1  0.239  0.804  0.005  738.  281.     -48.7  0.0200  0.72  0.32   3.60  258.0  15.0  285.1   2.0    0   0.51   89.  1000.     5 NAD-SFC NoSubs
11  2 25  56 18  -21.4  0.233 -9.000 -9.000 -999.  269.      52.4  0.0200  0.72  0.63   4.10  261.0  15.0  284.6   2.0    0   0.25   87.  1001.     4 NAD-SFC NoSubs
11  2 25  56 19  -26.7  0.262 -9.000 -9.000 -999.  321.      59.9  0.0200  0.72  1.00   4.60  258.0  15.0  283.9   2.0    0   0.00   83.  1002.     4 NAD-SFC NoSubs
11  2 25  56 20  -26.8  0.262 -9.000 -9.000 -999.  321.      59.7  0.0200  0.72  1.00   4.60  267.0  15.0  283.2   2.0    0   0.00   79.  1003.     4 NAD-SFC NoSubs
11  2 25  56 21  -28.0  0.262 -9.000 -9.000 -999.  322.      57.7  0.0420  0.72  1.00   4.10  290.0  15.0  282.8   2.0    0   0.00   77.  1003.     3 NAD-SFC NoSubs
11  2 25  56 22  -24.5  0.229 -9.000 -9.000 -999.  263.      43.7  0.0420  0.72  1.00   3.60  286.0  15.0  281.9   2.0    0   0.00   77.  1004.     3 NAD-SFC NoSubs
11  2 25  56 23  -22.4  0.220 -9.000 -9.000 -999.  248.      42.8  0.0800  0.72  1.00   3.10  304.0  15.0  281.2   2.0    0   0.00   77.  1004.     3 NAD-SFC NoSubs
11  2 25  56 24  -15.6  0.182 -9.000 -9.000 -999.  187.      34.9  0.0800  0.72  1.00   2.60  324.0  15.0  280.8   2.0    0   0.00   77.  1004.     3 NAD-SFC NoSubs
11  2 26  57  1  -16.2  0.189 -9.000 -9.000 -999.  198.      37.5  0.0950  0.72  1.00   2.60  341.0  15.0  280.2   2.0    0   0.00   77.  1004.     4 NAD-SFC NoSubs
11  2 26  57  2   -2.6  0.082 -9.000 -9.000 -999.   64.      19.2  0.0800  0.72  1.00   1.00  328.0  15.0  279.6   2.0    0   0.25   77.  1004.     5 NAD-SFC NoSubs
11  2 26  57  3   -0.9  0.062 -9.000 -9.000 -999.   37.      24.9  0.0200  0.72  1.00   0.50  260.0  15.0  279.0   2.0    0   0.25   78.  1004.     5 NAD-SFC NoSubs
11  2 26  57  4   -2.1  0.073 -9.000 -9.000 -999.   47.      16.6  0.0220  0.72  1.00   1.00  232.0  15.0  278.4   2.0    0   0.25   81.  1004.     4 NAD-SFC NoSubs
11  2 26  57  5   -2.1  0.073 -9.000 -9.000 -999.   47.      16.6  0.0220  0.72  1.00   1.00  235.0  15.0  277.8   2.0    0   0.00   84.  1003.     4 NAD-SFC NoSubs
11  2 26  57  6   -3.7  0.086 -9.000 -9.000 -999.   61.      15.5  0.0220  0.72  1.00   1.50  220.0  15.0  277.2   2.0    0   0.00   86.  1003.     4 NAD-SFC NoSubs
11  2 26  57  7   -2.4  0.078 -9.000 -9.000 -999.   52.      17.9  0.0420  0.72  1.00   1.00  273.0  15.0  277.0   2.0    0   0.00   87.  1003.     4 NAD-SFC NoSubs
11  2 26  57  8    6.7  0.284  0.247  0.005   80.  363.    -304.6  0.0800  0.72  0.39   3.60  322.0  15.0  277.4   2.0    0   0.25   84.  1003.     6 NAD-SFC NoSubs
11  2 26  57  9   56.0  0.346  0.904  0.005  470.  488.     -66.1  0.0800  0.72  0.25   4.10  329.0  15.0  277.5   2.0    0   0.51   84.  1002.     5 NAD-SFC NoSubs
11  2 26  57 10  101.2  0.297  1.332  0.005  835.  391.     -23.2  0.0950  0.72  0.21   3.10  331.0  15.0  278.0   2.0    0   0.51   82.  1002.     4 NAD-SFC NoSubs
11  2 26  57 11  132.6  0.341  1.651  0.005 1214.  477.     -26.6  0.0950  0.72  0.19   3.60  330.0  15.0  278.8   2.0    0   0.00   76.  1001.     4 NAD-SFC NoSubs
11  2 26  57 12  151.6  0.453  1.838  0.005 1463.  731.     -54.5  0.0950  0.72  0.19   5.10  340.0  15.0  279.4   2.0    0   0.00   71.  1000.     3 NAD-SFC NoSubs
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11  2 26  57 13  154.4  0.453  1.926  0.005 1653.  732.    -53.7  0.0950  0.72  0.19   5.10  338.0  15.0  279.8  2.0   0  0.00  65.   999.    3 NAD-SFC NoSubs
11  2 26  57 14  142.3  0.451  1.934  0.005 1815.  727.    -57.4  0.0950  0.72  0.19   5.10  341.0  15.0  280.4  2.0   0  0.00  58.   999.    3 NAD-SFC NoSubs
11  2 26  57 15  114.6  0.432  1.841  0.005 1940.  682.    -62.6  0.0800  0.72  0.20   5.10  326.0  15.0  280.8  2.0   0  0.00  53.   998.    4 NAD-SFC NoSubs
11  2 26  57 16   75.0  0.399  1.620  0.005 2019.  607.    -75.4  0.0950  0.72  0.23   4.60  332.0  15.0  281.0  2.0   0  0.00  50.   997.    4 NAD-SFC NoSubs
11  2 26  57 17   25.0  0.262  1.128  0.005 2042.  335.    -64.1  0.0800  0.72  0.32   3.10  307.0  15.0  280.8  2.0   0  0.00  57.   997.    4 NAD-SFC NoSubs
11  2 26  57 18  -27.5  0.297 -9.000 -9.000 -999.  389.     85.0  0.0800  0.72  0.62   4.10  314.0  15.0  280.0  2.0   0  0.00  60.   998.    4 NAD-SFC NoSubs
11  2 26  57 19  -40.1  0.372 -9.000 -9.000 -999.  544.    114.3  0.0800  0.72  1.00   5.10  313.0  15.0  278.8  2.0   0  0.00  62.   999.    3 NAD-SFC NoSubs
11  2 26  57 20  -36.0  0.334 -9.000 -9.000 -999.  464.     92.1  0.0800  0.72  1.00   4.60  314.0  15.0  278.4  2.0   0  0.00  60.  1000.    3 NAD-SFC NoSubs
11  2 26  57 21  -32.0  0.296 -9.000 -9.000 -999.  388.     72.4  0.0800  0.72  1.00   4.10  315.0  15.0  278.2  2.0   0  0.00  61.  1001.    3 NAD-SFC NoSubs
11  2 26  57 22  -28.0  0.258 -9.000 -9.000 -999.  316.     55.0  0.0800  0.72  1.00   3.60  311.0  15.0  277.8  2.0   0  0.00  62.  1001.    3 NAD-SFC NoSubs
11  2 26  57 23  -28.1  0.258 -9.000 -9.000 -999.  315.     54.7  0.0800  0.72  1.00   3.60  305.0  15.0  276.6  2.0   0  0.00  65.  1002.    3 NAD-SFC NoSubs
11  2 26  57 24  -25.0  0.228 -9.000 -9.000 -999.  262.     42.7  0.0420  0.72  1.00   3.60  294.0  15.0  275.8  2.0   0  0.00  67.  1002.    3 NAD-SFC NoSubs
11  2 27  58  1  -13.1  0.161 -9.000 -9.000 -999.  156.     28.3  0.0420  0.72  1.00   2.60  278.0  15.0  275.2  2.0   0  0.00  67.  1003.    2 NAD-SFC NoSubs
11  2 27  58  2  -10.9  0.142 -9.000 -9.000 -999.  128.     23.4  0.0200  0.72  1.00   2.60  257.0  15.0  274.8  2.0   0  0.00  66.  1004.    2 NAD-SFC NoSubs
11  2 27  58  3  -19.0  0.194 -9.000 -9.000 -999.  206.     34.6  0.0420  0.72  1.00   3.10  273.0  15.0  274.2  2.0   0  0.00  66.  1005.    2 NAD-SFC NoSubs
11  2 27  58  4  -19.0  0.194 -9.000 -9.000 -999.  206.     34.6  0.0420  0.72  1.00   3.10  272.0  15.0  273.8  2.0   0  0.00  66.  1006.    2 NAD-SFC NoSubs
11  2 27  58  5  -19.1  0.194 -9.000 -9.000 -999.  206.     34.6  0.0420  0.72  1.00   3.10  275.0  15.0  273.4  2.0   0  0.00  66.  1007.    2 NAD-SFC NoSubs
11  2 27  58  6  -19.1  0.194 -9.000 -9.000 -999.  206.     34.6  0.0420  0.72  1.00   3.10  274.0  15.0  273.0  2.0   0  0.00  67.  1007.    2 NAD-SFC NoSubs
11  2 27  58  7  -11.0  0.142 -9.000 -9.000 -999.  128.     23.3  0.0200  0.72  1.00   2.60  263.0  15.0  272.8  2.0   0  0.00  67.  1008.    2 NAD-SFC NoSubs
11  2 27  58  8    3.4  0.128  0.138  0.006   28.  110.    -56.0  0.0800  0.72  0.38   1.50  323.0  15.0  274.2  2.0   0  0.00  60.  1009.    2 NAD-SFC NoSubs
11  2 27  58  9   56.8  0.082  0.700  0.005  217.   57.     -1.0  0.0950  0.72  0.25   0.50  355.0  15.0  276.0  2.0   0  0.00  52.  1010.    2 NAD-SFC NoSubs
11  2 27  58 10  102.4 -9.000 -9.000 -9.000  446. -999. -99999.0  0.0471  0.72  0.21   0.00    0.0  15.0  277.4  2.0   0  0.00  47.  1010.    2 NAD-SFC NoSubs
11  2 27  58 11  134.8 -9.000 -9.000 -9.000  664. -999. -99999.0  0.0471  0.72  0.19   0.00    0.0  15.0  278.9  2.0   0  0.00  43.  1009.    2 NAD-SFC NoSubs
11  2 27  58 12  152.8  0.081  1.524  0.005  835.   55.     -1.0  0.0420  0.72  0.19   0.50  299.0  15.0  280.4  2.0   0  0.00  38.  1009.    2 NAD-SFC NoSubs
11  2 27  58 13  155.7  0.081  1.618  0.005  980.   55.     -1.0  0.0420  0.72  0.19   0.50  298.0  15.0  281.5  2.0   0  0.00  35.  1008.    2 NAD-SFC NoSubs
11  2 27  58 14  143.5 -9.000 -9.000 -9.000 1100. -999. -99999.0  0.0471  0.72  0.19   0.00    0.0  15.0  282.2  2.0   0  0.00  33.  1008.    2 NAD-SFC NoSubs
11  2 27  58 15  116.4 -9.000 -9.000 -9.000 1189. -999. -99999.0  0.0471  0.72  0.20   0.00    0.0  15.0  282.8  2.0   0  0.00  33.  1008.    2 NAD-SFC NoSubs
11  2 27  58 16   75.6  0.083  1.377  0.005 1244.   57.     -1.0  0.0800  0.72  0.23   0.50  325.0  15.0  283.0  2.0   0  0.00  32.  1008.    2 NAD-SFC NoSubs
11  2 27  58 17   23.9  0.153  0.943  0.005 1260.  144.    -13.5  0.0950  0.72  0.32   1.50  356.0  15.0  282.9  2.0   0  0.00  35.  1008.    2 NAD-SFC NoSubs
11  2 27  58 18   -5.2  0.108 -9.000 -9.000 -999.   85.     21.6  0.0960  0.72  0.61   1.50   21.0  15.0  282.2  2.0   0  0.00  39.  1009.    2 NAD-SFC NoSubs
11  2 27  58 19   -5.0  0.102 -9.000 -9.000 -999.   78.     19.0  0.0650  0.72  1.00   1.50   48.0  15.0  281.0  2.0   0  0.00  44.  1009.    2 NAD-SFC NoSubs
11  2 27  58 20   -2.3  0.077 -9.000 -9.000 -999.   51.     17.4  0.0310  0.72  1.00   1.00  119.0  15.0  279.8  2.0   0  0.00  50.  1010.    2 NAD-SFC NoSubs
11  2 27  58 21   -4.0  0.088 -9.000 -9.000 -999.   63.     15.6  0.0240  0.72  1.00   1.50  166.0  15.0  278.5  2.0   0  0.00  55.  1011.    2 NAD-SFC NoSubs
11  2 27  58 22   -3.9  0.087 -9.000 -9.000 -999.   62.     15.4  0.0220  0.72  1.00   1.50  225.0  15.0  277.8  2.0   0  0.00  58.  1012.    2 NAD-SFC NoSubs
11  2 27  58 23   -1.0  0.065 -9.000 -9.000 -999.   40.     26.0  0.0200  0.72  1.00   0.50  258.0  15.0  276.9  2.0   0  0.00  60.  1012.    2 NAD-SFC NoSubs
11  2 27  58 24   -1.1  0.070 -9.000 -9.000 -999.   44.     27.7  0.0400  0.72  1.00   0.50   67.0  15.0  276.0  2.0   0  0.00  64.  1013.    2 NAD-SFC NoSubs
11  2 28  59  1   -1.1  0.068 -9.000 -9.000 -999.   43.     27.1  0.0310  0.72  1.00   0.50  119.0  15.0  275.1  2.0   0  0.00  68.  1013.    2 NAD-SFC NoSubs
11  2 28  59  2   -2.3  0.077 -9.000 -9.000 -999.   51.     17.3  0.0280  0.72  1.00   1.00  129.0  15.0  274.5  2.0   0  0.00  72.  1013.    2 NAD-SFC NoSubs
11  2 28  59  3   -2.4  0.077 -9.000 -9.000 -999.   52.     17.5  0.0310  0.72  1.00   1.00  116.0  15.0  274.0  2.0   0  0.00  74.  1013.    2 NAD-SFC NoSubs
11  2 28  59  4   -1.1  0.068 -9.000 -9.000 -999.   43.     27.2  0.0310  0.72  1.00   0.50  107.0  15.0  273.6  2.0   0  0.00  75.  1013.    2 NAD-SFC NoSubs
11  2 28  59  5   -1.1  0.068 -9.000 -9.000 -999.   43.     27.2  0.0310  0.72  1.00   0.50  110.0  15.0  273.2  2.0   0  0.00  76.  1014.    2 NAD-SFC NoSubs
11  2 28  59  6   -1.1  0.068 -9.000 -9.000 -999.   43.     27.2  0.0310  0.72  1.00   0.50   99.0  15.0  272.8  2.0   0  0.00  78.  1014.    2 NAD-SFC NoSubs
11  2 28  59  7   -1.1  0.070 -9.000 -9.000 -999.   44.     27.9  0.0400  0.72  1.00   0.50   86.0  15.0  272.4  2.0   0  0.00  79.  1014.    2 NAD-SFC NoSubs
11  2 28  59  8    4.6 -9.000 -9.000 -9.000   18. -999. -99999.0  0.0471  0.72  0.38   0.00    0.0  15.0  273.8  2.0   0  0.00  76.  1014.    2 NAD-SFC NoSubs
11  2 28  59  9   58.4 -9.000 -9.000 -9.000  128. -999. -99999.0  0.0471  0.72  0.25   0.00    0.0  15.0  277.8  2.0   0  0.00  56.  1014.    2 NAD-SFC NoSubs
11  2 28  59 10  104.2 -9.000 -9.000 -9.000  299. -999. -99999.0  0.0471  0.72  0.20   0.00    0.0  15.0  280.2  2.0   0  0.00  48.  1014.    2 NAD-SFC NoSubs
11  2 28  59 11  136.9 -9.000 -9.000 -9.000  492. -999. -99999.0  0.0471  0.72  0.19   0.00    0.0  15.0  282.8  2.0   0  0.00  39.  1013.    2 NAD-SFC NoSubs
11  2 28  59 12  154.9 -9.000 -9.000 -9.000  677. -999. -99999.0  0.0471  0.72  0.19   0.00    0.0  15.0  284.4  2.0   0  0.00  34.  1013.    2 NAD-SFC NoSubs
11  2 28  59 13  157.9  0.091  1.556  0.007  862.   66.     -1.0  0.0800  0.72  0.19   0.50  310.0  15.0  285.6  2.0   0  0.00  30.  1012.    2 NAD-SFC NoSubs
11  2 28  59 14  145.7  0.090  1.587  0.008  992.   65.     -1.0  0.0800  0.72  0.19   0.50  315.0  15.0  286.5  2.0   0  0.00  28.  1012.    2 NAD-SFC NoSubs
11  2 28  59 15  118.7  0.134  1.516  0.009 1061.  118.     -1.8  0.0800  0.72  0.20   1.00  322.0  15.0  286.9  2.0   0  0.00  27.  1011.    2 NAD-SFC NoSubs
11  2 28  59 16   77.7  0.132  1.334  0.009 1103.  115.     -2.7  0.0950  0.72  0.23   1.00  339.0  15.0  287.0  2.0   0  0.00  27.  1011.    2 NAD-SFC NoSubs
11  2 28  59 17   25.9 -9.000 -9.000 -9.000 1116. -999. -99999.0  0.0471  0.72  0.31   0.00    0.0  15.0  286.8  2.0   0  0.00  31.  1011.    2 NAD-SFC NoSubs
11  2 28  59 18  -13.9  0.176 -9.000 -9.000 -999.  177.     35.2  0.0650  0.72  0.60   2.60   33.0  15.0  285.6  2.0   0  0.00  35.  1011.    2 NAD-SFC NoSubs
11  2 28  59 19   -9.5  0.139 -9.000 -9.000 -999.  124.     25.4  0.0650  0.72  1.00   2.10   37.0  15.0  284.2  2.0   0  0.00  40.  1011.    2 NAD-SFC NoSubs
11  2 28  59 20   -1.0  0.067 -9.000 -9.000 -999.   44.     26.9  0.0310  0.72  1.00   0.50   90.0  15.0  282.5  2.0   0  0.00  47.  1012.    2 NAD-SFC NoSubs
11  2 28  59 21   -7.0  0.113 -9.000 -9.000 -999.   92.     18.8  0.0200  0.72  1.00   2.10  259.0  15.0  281.0  2.0   0  0.00  54.  1012.    2 NAD-SFC NoSubs
11  2 28  59 22  -13.1  0.161 -9.000 -9.000 -999.  155.     28.5  0.0420  0.72  1.00   2.60  295.0  15.0  280.0  2.0   0  0.00  57.  1013.    2 NAD-SFC NoSubs
11  2 28  59 23   -5.3  0.105 -9.000 -9.000 -999.   83.     19.8  0.0800  0.72  1.00   1.50  312.0  15.0  279.2  2.0   0  0.00  60.  1013.    2 NAD-SFC NoSubs
11  2 28  59 24   -1.3  0.075 -9.000 -9.000 -999.   50.     29.9  0.0950  0.72  1.00   0.50  345.0  15.0  278.5  2.0   0  0.00  62.  1013.    2 NAD-SFC NoSubs
11  3  1  60  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00   0.00    0.0  15.0  277.8  2.0   0  0.00  65.  1012.    2 NAD-SFC NoSubs
11  3  1  60  2   -1.4  0.078 -9.000 -9.000 -999.   52.     30.7  0.1280  0.32  1.00   0.50   49.0  15.0  277.0  2.0   0  0.00  68.  1012.    2 NAD-SFC NoSubs
11  3  1  60  3   -2.9  0.085 -9.000 -9.000 -999.   60.     19.5  0.0760  0.32  1.00   1.00   78.0  15.0  276.2  2.0   0  0.00  71.  1012.    2 NAD-SFC NoSubs
11  3  1  60  4   -1.2  0.074 -9.000 -9.000 -999.   48.     29.4  0.0760  0.32  1.00   0.50   87.0  15.0  275.8  2.0   0  0.00  73.  1011.    2 NAD-SFC NoSubs
11  3  1  60  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00   0.00    0.0  15.0  275.1  2.0   0  0.00  76.  1011.    2 NAD-SFC NoSubs
11  3  1  60  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00   0.00    0.0  15.0  274.8  2.0   0  0.00  77.  1011.    2 NAD-SFC NoSubs
11  3  1  60  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00   0.00    0.0  15.0  274.5  2.0   0  0.00  78.  1012.    2 NAD-SFC NoSubs
11  3  1  60  8    4.6 -9.000 -9.000 -9.000   19. -999. -99999.0  0.0879  0.32  0.34   0.00    0.0  15.0  274.9  2.0   0  0.00  78.  1012.    2 NAD-SFC NoSubs
11  3  1  60  9   37.3 -9.000 -9.000 -9.000  104. -999. -99999.0  0.0879  0.32  0.20   0.00    0.0  15.0  277.9  2.0   0  0.00  64.  1012.    2 NAD-SFC NoSubs
11  3  1  60 10   65.0 -9.000 -9.000 -9.000  206. -999. -99999.0  0.0879  0.32  0.16   0.00    0.0  15.0  280.2  2.0   0  0.00  56.  1012.    2 NAD-SFC NoSubs
11  3  1  60 11   84.7 -9.000 -9.000 -9.000  326. -999. -99999.0  0.0879  0.32  0.15   0.00    0.0  15.0  282.2  2.0   0  0.00  51.  1011.    2 NAD-SFC NoSubs
11  3  1  60 12   95.6 -9.000 -9.000 -9.000  446. -999. -99999.0  0.0879  0.32  0.15   0.00    0.0  15.0  284.2  2.0   0  0.00  42.  1010.    2 NAD-SFC NoSubs
11  3  1  60 13   97.4 -9.000 -9.000 -9.000  575. -999. -99999.0  0.0879  0.32  0.15   0.00    0.0  15.0  285.8  2.0   0  0.00  38.  1010.    2 NAD-SFC NoSubs
11  3  1  60 14   90.1 -9.000 -9.000 -9.000  676. -999. -99999.0  0.0879  0.32  0.15   0.00    0.0  15.0  287.1  2.0   0  0.00  33.  1009.    2 NAD-SFC NoSubs
11  3  1  60 15   73.7 -9.000 -9.000 -9.000  757. -999. -99999.0  0.0879  0.32  0.16   0.00    0.0  15.0  287.8  2.0   0  0.00  31.  1008.    2 NAD-SFC NoSubs
11  3  1  60 16   49.1  0.078  1.034  0.007  808.   52.     -1.0  0.0780  0.32  0.18   0.50  285.0  15.0  289.2  2.0   0  0.00  37.  1007.    2 NAD-SFC NoSubs
11  3  1  60 17   17.7  0.127  0.740  0.007  825.  109.    -10.5  0.1880  0.32  0.27   1.00  331.0  15.0  289.0  2.0   0  0.00  40.  1007.    2 NAD-SFC NoSubs
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11	3	1	60	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	0.56	0.00	0.0	15.0	288.1	2.0	0	0.00	44.	1007.	2	NAD-SFC	NoSubs
11	3	1	60	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	286.8	2.0	0	0.00	51.	1007.	2	NAD-SFC	NoSubs
11	3	1	60	20	-1.0	0.068	-9.000	-9.000	-999.	42.	27.0	0.0340	0.32	1.00	0.50	229.0	15.0	285.2	2.0	0	0.00	57.	1007.	2	NAD-SFC	NoSubs
11	3	1	60	21	-4.1	0.091	-9.000	-9.000	-999.	66.	16.4	0.0310	0.32	1.00	1.50	259.0	15.0	284.5	2.0	0	0.00	61.	1007.	2	NAD-SFC	NoSubs
11	3	1	60	22	-6.6	0.121	-9.000	-9.000	-999.	100.	24.0	0.1620	0.32	1.00	1.50	309.0	15.0	283.8	2.0	0	0.00	64.	1008.	2	NAD-SFC	NoSubs
11	3	1	60	23	-7.0	0.125	-9.000	-9.000	-999.	106.	25.0	0.1880	0.32	1.00	1.50	353.0	15.0	283.5	2.0	0	0.00	66.	1008.	2	NAD-SFC	NoSubs
11	3	1	60	24	-7.0	0.125	-9.000	-9.000	-999.	106.	25.1	0.1900	0.32	1.00	1.50	20.0	15.0	283.2	2.0	0	0.00	65.	1008.	2	NAD-SFC	NoSubs
11	3	2	61	1	-6.1	0.115	-9.000	-9.000	-999.	93.	22.4	0.1280	0.32	1.00	1.50	55.0	15.0	283.2	2.0	0	0.00	66.	1008.	2	NAD-SFC	NoSubs
11	3	2	61	2	-3.2	0.090	-9.000	-9.000	-999.	65.	20.8	0.1280	0.32	1.00	1.00	49.0	15.0	283.1	2.0	0	0.00	66.	1008.	2	NAD-SFC	NoSubs
11	3	2	61	3	-3.1	0.089	-9.000	-9.000	-999.	64.	20.7	0.1280	0.32	1.00	1.00	59.0	15.0	283.2	2.0	0	0.00	65.	1008.	3	NAD-SFC	NoSubs
11	3	2	61	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	283.1	2.0	0	0.00	67.	1008.	4	NAD-SFC	NoSubs
11	3	2	61	5	-0.6	0.053	-9.000	-9.000	-999.	29.	22.4	0.0510	0.32	1.00	0.50	100.0	15.0	282.8	2.0	0	0.00	71.	1009.	10	NAD-SFC	NoSubs
11	3	2	61	6	-3.6	0.102	-9.000	-9.000	-999.	78.	26.5	0.0760	0.32	1.00	1.50	85.0	15.0	282.5	2.0	0	0.25	75.	1009.	10	NAD-SFC	NoSubs
11	3	2	61	7	-3.6	0.102	-9.000	-9.000	-999.	78.	26.5	0.0760	0.32	1.00	1.50	76.0	15.0	282.2	2.0	0	0.51	78.	1009.	10	NAD-SFC	NoSubs
11	3	2	61	8	-1.0	0.108	-9.000	-9.000	-999.	86.	115.6	0.0760	0.32	0.33	1.50	65.0	15.0	282.2	2.0	0	0.76	81.	1009.	10	NAD-SFC	NoSubs
11	3	2	61	9	7.5	0.232	0.218	0.005	50.	268.	-150.5	0.1280	0.32	0.20	2.60	53.0	15.0	282.4	2.0	0	0.51	81.	1009.	10	NAD-SFC	NoSubs
11	3	2	61	10	14.4	0.239	0.333	0.005	92.	281.	-85.4	0.1280	0.32	0.16	2.60	37.0	15.0	283.1	2.0	0	0.00	76.	1010.	10	NAD-SFC	NoSubs
11	3	2	61	11	57.5	0.284	0.782	0.005	299.	363.	-35.7	0.1900	0.32	0.15	2.60	27.0	15.0	284.2	2.0	0	0.00	72.	1009.	8	NAD-SFC	NoSubs
11	3	2	61	12	86.8	0.233	1.085	0.005	530.	270.	-13.1	0.1280	0.32	0.15	2.10	38.0	15.0	285.2	2.0	0	0.00	72.	1009.	6	NAD-SFC	NoSubs
11	3	2	61	13	79.4	0.198	1.169	0.005	724.	211.	-8.7	0.1900	0.32	0.15	1.50	11.0	15.0	287.6	2.0	0	0.00	72.	1008.	7	NAD-SFC	NoSubs
11	3	2	61	14	82.2	0.198	1.253	0.005	861.	211.	-8.5	0.1880	0.32	0.15	1.50	346.0	15.0	289.1	2.0	0	0.00	70.	1008.	6	NAD-SFC	NoSubs
11	3	2	61	15	68.0	0.194	1.220	0.006	961.	204.	-9.6	0.1880	0.32	0.16	1.50	336.0	15.0	290.1	2.0	0	0.00	69.	1008.	6	NAD-SFC	NoSubs
11	3	2	61	16	41.7	0.235	1.049	0.007	996.	273.	-27.8	0.1880	0.32	0.18	2.10	348.0	15.0	290.2	2.0	0	0.00	69.	1007.	7	NAD-SFC	NoSubs
11	3	2	61	17	14.0	0.259	0.733	0.007	1005.	316.	-110.6	0.1900	0.32	0.27	2.60	10.0	15.0	289.9	2.0	0	0.00	74.	1007.	8	NAD-SFC	NoSubs
11	3	2	61	18	-18.8	0.272	-9.000	-9.000	-999.	340.	95.9	0.1900	0.32	0.55	3.10	16.0	15.0	288.9	2.0	0	0.00	79.	1008.	6	NAD-SFC	NoSubs
11	3	2	61	19	-17.4	0.203	-9.000	-9.000	-999.	221.	43.2	0.1280	0.32	1.00	2.60	33.0	15.0	287.9	2.0	0	0.00	84.	1008.	5	NAD-SFC	NoSubs
11	3	2	61	20	-1.3	0.077	-9.000	-9.000	-999.	65.	30.1	0.1900	0.32	1.00	0.50	28.0	15.0	287.2	2.0	0	0.00	88.	1009.	5	NAD-SFC	NoSubs
11	3	2	61	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	286.9	2.0	0	0.00	90.	1009.	5	NAD-SFC	NoSubs
11	3	2	61	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	286.8	2.0	0	0.00	90.	1010.	5	NAD-SFC	NoSubs
11	3	2	61	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	286.6	2.0	0	0.00	91.	1010.	5	NAD-SFC	NoSubs
11	3	2	61	24	-3.2	0.092	-9.000	-9.000	-999.	67.	21.9	0.1900	0.32	1.00	1.00	9.0	15.0	286.1	2.0	0	0.00	94.	1010.	5	NAD-SFC	NoSubs
11	3	3	62	1	-6.6	0.125	-9.000	-9.000	-999.	106.	26.5	0.1900	0.32	1.00	1.50	9.0	15.0	285.6	2.0	0	0.00	97.	1010.	5	NAD-SFC	NoSubs
11	3	3	62	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	285.1	2.0	0	0.00	99.	1010.	4	NAD-SFC	NoSubs
11	3	3	62	3	-6.7	0.124	-9.000	-9.000	-999.	105.	25.8	0.1880	0.32	1.00	1.50	359.0	15.0	284.5	2.0	0	0.00	100.	1010.	4	NAD-SFC	NoSubs
11	3	3	62	4	-6.8	0.124	-9.000	-9.000	-999.	105.	25.7	0.1880	0.32	1.00	1.50	343.0	15.0	282.9	2.0	0	0.00	100.	1011.	4	NAD-SFC	NoSubs
11	3	3	62	5	-27.8	0.258	-9.000	-9.000	-999.	315.	55.8	0.1620	0.32	1.00	3.10	305.0	15.0	282.2	2.0	0	0.00	100.	1011.	3	NAD-SFC	NoSubs
11	3	3	62	6	-27.8	0.258	-9.000	-9.000	-999.	315.	55.8	0.1620	0.32	1.00	3.10	314.0	15.0	282.4	2.0	0	0.00	100.	1012.	3	NAD-SFC	NoSubs
11	3	3	62	7	-12.9	0.170	-9.000	-9.000	-999.	171.	34.3	0.1620	0.32	1.00	2.10	319.0	15.0	282.5	2.0	0	0.00	100.	1012.	3	NAD-SFC	NoSubs
11	3	3	62	8	7.7	0.159	0.210	0.005	43.	152.	-46.9	0.1880	0.32	0.33	1.50	338.0	15.0	282.2	2.0	0	0.00	100.	1013.	3	NAD-SFC	NoSubs
11	3	3	62	9	40.1	-9.000	-9.000	-9.000	249.	-999.	-99999.0	0.0879	0.32	0.20	0.00	0.0	15.0	282.2	2.0	0	0.00	99.	1013.	3	NAD-SFC	NoSubs
11	3	3	62	10	67.4	-9.000	-9.000	-9.000	417.	-999.	-99999.0	0.0879	0.32	0.16	0.00	0.0	15.0	283.0	2.0	0	0.00	94.	1013.	3	NAD-SFC	NoSubs
11	3	3	62	11	86.8	0.097	1.102	0.005	558.	73.	-1.0	0.1620	0.32	0.15	0.50	307.0	15.0	284.1	2.0	0	0.00	88.	1013.	3	NAD-SFC	NoSubs
11	3	3	62	12	97.4	0.102	1.228	0.005	687.	78.	-1.0	0.1880	0.32	0.15	0.50	355.0	15.0	285.8	2.0	0	0.00	79.	1013.	2	NAD-SFC	NoSubs
11	3	3	62	13	99.3	0.155	1.306	0.005	811.	147.	-3.4	0.1880	0.32	0.15	1.00	346.0	15.0	287.6	2.0	0	0.00	70.	1012.	2	NAD-SFC	NoSubs
11	3	3	62	14	91.9	0.200	1.324	0.005	912.	215.	-7.9	0.1880	0.32	0.15	1.50	336.0	15.0	288.9	2.0	0	0.00	63.	1011.	2	NAD-SFC	NoSubs
11	3	3	62	15	75.5	0.247	1.273	0.005	987.	295.	-18.1	0.1880	0.32	0.16	2.10	343.0	15.0	289.6	2.0	0	0.00	59.	1011.	2	NAD-SFC	NoSubs
11	3	3	62	16	50.6	0.280	1.133	0.005	1035.	356.	-39.2	0.1880	0.32	0.18	2.60	353.0	15.0	289.8	2.0	0	0.00	58.	1010.	2	NAD-SFC	NoSubs
11	3	3	62	17	18.9	0.305	0.821	0.005	1052.	404.	-134.9	0.1900	0.32	0.27	3.10	2.0	15.0	289.2	2.0	0	0.00	65.	1010.	2	NAD-SFC	NoSubs
11	3	3	62	18	-27.9	0.316	-9.000	-9.000	-999.	426.	101.9	0.1900	0.32	0.55	3.60	9.0	15.0	287.9	2.0	0	0.00	73.	1011.	2	NAD-SFC	NoSubs
11	3	3	62	19	-28.5	0.269	-9.000	-9.000	-999.	335.	61.5	0.1900	0.32	1.00	3.10	23.0	15.0	286.8	2.0	0	0.00	78.	1011.	3	NAD-SFC	NoSubs
11	3	3	62	20	-6.0	0.114	-9.000	-9.000	-999.	114.	22.7	0.1280	0.32	1.00	1.50	36.0	15.0	286.0	2.0	0	0.00	82.	1011.	3	NAD-SFC	NoSubs
11	3	3	62	21	-1.1	0.069	-9.000	-9.000	-999.	44.	27.5	0.0460	0.32	1.00	0.50	122.0	15.0	285.2	2.0	0	0.00	86.	1012.	3	NAD-SFC	NoSubs
11	3	3	62	22	-1.1	0.069	-9.000	-9.000	-999.	43.	27.5	0.0460	0.32	1.00	0.50	148.0	15.0	284.4	2.0	0	0.00	89.	1012.	3	NAD-SFC	NoSubs
11	3	3	62	23	-1.1	0.070	-9.000	-9.000	-999.	44.	27.8	0.0460	0.32	1.00	0.50	121.0	15.0	283.8	2.0	0	0.00	92.	1013.	2	NAD-SFC	NoSubs
11	3	3	62	24	-1.1	0.070	-9.000	-9.000	-999.	45.	28.1	0.0510	0.32	1.00	0.50	105.0	15.0	283.0	2.0	0	0.00	95.	1013.	2	NAD-SFC	NoSubs
11	3	4	63	1	-1.1	0.070	-9.000	-9.000	-999.	45.	28.1	0.0510	0.32	1.00	0.50	100.0	15.0	282.4	2.0	0	0.00	98.	1013.	2	NAD-SFC	NoSubs
11	3	4	63	2	-1.1	0.070	-9.000	-9.000	-999.	44.	27.9	0.0460	0.32	1.00	0.50	125.0	15.0	281.9	2.0	0	0.00	99.	1013.	2	NAD-SFC	NoSubs
11	3	4	63	3	-1.0	0.068	-9.000	-9.000	-999.	42.	27.1	0.0330	0.32	1.00	0.50	183.0	15.0	281.2	2.0	0	0.00	100.	1013.	2	NAD-SFC	NoSubs
11	3	4	63	4	-1.5	0.080	-9.000	-9.000	-999.	54.	31.2	0.1620	0.32	1.00	0.50	316.0	15.0	279.8	2.0	0	0.00	100.	1013.	2	NAD-SFC	NoSubs
11	3	4	63	5	-1.5	0.080	-9.000	-9.000	-999.	54.	31.2	0.1620	0.32	1.00	0.50	328.0	15.0	279.2	2.0	0	0.00	100.	1013.	2	NAD-SFC	NoSubs
11	3	4	63	6	-1.5	0.081	-9.000	-9.000	-999.	55.	31.6	0.1880	0.32	1.00	0.50	356.0	15.0	279.2	2.0	0	0.00	100.	1013.	2	NAD-SFC	NoSubs
11	3	4	63	7	2.9	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	0.73	0.00	0.0	15.0	279.1	2.0	0	0.00	100.	1013.	2	NAD-SFC	NoSubs
11	3	4	63	8	7.3	-9.000	-9.000	-9.000	38.	-999.	-99999.0	0.0879	0.32	0.32	0.00	0.0	15.0	279.8	2.0	0	0.00	100.	1014.	2	NAD-SFC	NoSubs
11	3	4	63	9	40.1	-9.000	-9.000	-9.000	120.	-999.	-99999.0	0.0879	0.32	0.20	0.00	0.0	15.0	280.8	2.0	0	0.00	99.	1014.	2	NAD-SFC	NoSubs
11	3	4	63	10	67.9	-9.000	-9.000	-9.000	274.	-999.	-99999.0	0.0879	0.32	0.16	0.00	0.0	15.0	283.4	2.0	0	0.00	84.	1014.	2	NAD-SFC	NoSubs
11	3	4	63	11	87.7	0.148	1.025	0.005	443.	137.	-3.4	0.1620	0.32	0.15	1.00	310.0	15.0	286.5	2.0	0	0.00	66.	1013.	2	NAD-SFC	NoSubs
11	3	4	63	12	98.7	0.196	1.201	0.005	635.	208.	-6.9	0.1620	0.32	0.15	1.50	316.0	15.0	288.4	2.0	0	0.00	56.	1013.	2	NAD-SFC	NoSubs
11	3	4	63	13	100.4	0.254	1.286	0.006	765.	308.	-14.8	0.1880	0.32	0.15	2.10	333.0	15.0	289.8	2.0	0	0.00	50.	1012.	2	NAD-SFC	NoSubs
11	3	4	63	14	93.0	0.294	1.306	0.006	865.	383.	-24.7	0.1880	0.32	0.15	2.60	338.0	15.0	290.6	2.0	0	0.00	46.	1012.	2	NAD-SFC	NoSubs
11	3	4	63	15	76.5	0.331	1.258	0.007	940.	457.	-42.9	0.1880	0.32	0.16	3.10	353.0	15.0	291.0	2.0	0	0.00	45.	1012.	2	NAD-SFC	NoSubs
11	3	4	63	16	51.5	-9.000	-9.000	-9.000	982.	-999.	-99999.0	0.0879	0.32	0.18	0.00	0.0	15.0	291.1	2.0	0	0.00	45.	1012.	2	NAD-SFC	NoSubs
11	3	4	63	17	19.8	0.306	0.817	0.007	993.	405.	-130.0	0.1900	0.32	0.26	3.10	24.0	15.0	290.5	2.0	0	0.00	52.	1012.	2	NAD-SFC	NoSubs
11	3	4	63	18	-24.5	0.287	-9.000	-9.000	-999.	370.	87.6	0.1280	0.32	0.54	3.60	34.0	15.0	289.8	2.0	0	0.00	53.	1012.	2	NAD-SFC	NoSubs
11	3	4	63	19	-11.8	0.160	-9.000	-9.000	-999.	164.	31.5	0.1280	0.32	1.00	2.10	43.0	15.0	288.8	2.0	0	0.00	55.	1012.	2	NAD-SFC	NoSubs
11	3	4	63	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	287.4	2.0	0	0.00	60.	1013.	2	NAD-SFC	NoSubs
11	3	4	63	21	-2.3	0.077	-9.000	-9.000	-999.	51.	17.5	0.0340	0.32	1.00	1.00	229.0	15.0	286.1	2.0	0	0.00	68.	1013.	2	NAD-SFC	NoSubs
11	3	4	63	22	-2.3	0.076	-9.000	-9.000	-999.	51.	17.4	0.0310	0.32	1.00	1.00	250.0	15.0	285.1	2.0	0	0.00	73.	1014.	2	NAD-SFC	NoSubs

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11  3  4  63 23   -1.2  0.073 -9.000 -9.000 -999.   48.     29.1  0.0780  0.32  1.00  0.50  279.0  15.0  284.6  2.0   0  0.00   75.  1014.    2 NAD-SFC NoSubs
11  3  4  63 24   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.1900  0.32  1.00  0.50   17.0  15.0  283.8  2.0   0  0.00   78.  1014.    2 NAD-SFC NoSubs
11  3  5  64  1   -1.2  0.073 -9.000 -9.000 -999.   48.     29.1  0.0760  0.32  1.00  0.50   80.0  15.0  283.0  2.0   0  0.00   82.  1013.    2 NAD-SFC NoSubs
11  3  5  64  2   -1.2  0.073 -9.000 -9.000 -999.   48.     29.1  0.0760  0.32  1.00  0.50   80.0  15.0  282.2  2.0   0  0.00   84.  1013.    2 NAD-SFC NoSubs
11  3  5  64  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  281.8  2.0   0  0.00   86.  1013.    2 NAD-SFC NoSubs
11  3  5  64  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  281.2  2.0   0  0.00   87.  1013.    2 NAD-SFC NoSubs
11  3  5  64  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  280.9  2.0   0  0.00   88.  1013.    2 NAD-SFC NoSubs
11  3  5  64  6   -1.2  0.074 -9.000 -9.000 -999.   48.     29.3  0.0780  0.32  1.00  0.50  297.0  15.0  280.6  2.0   0  0.00   88.  1013.    2 NAD-SFC NoSubs
11  3  5  64  7    3.5 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  0.71  0.00    0.0  15.0  280.4  2.0   0  0.00   88.  1013.    2 NAD-SFC NoSubs
11  3  5  64  8    8.3 -9.000 -9.000 -9.000   38. -999. -99999.0  0.0879  0.32  0.32  0.00    0.0  15.0  281.9  2.0   0  0.00   82.  1013.    2 NAD-SFC NoSubs
11  3  5  64  9   41.5 -9.000 -9.000 -9.000  115. -999. -99999.0  0.0879  0.32  0.20  0.00    0.0  15.0  284.5  2.0   0  0.00   73.  1013.    2 NAD-SFC NoSubs
11  3  5  64 10   69.2 -9.000 -9.000 -9.000  260. -999. -99999.0  0.0879  0.32  0.16  0.00    0.0  15.0  286.8  2.0   0  0.00   63.  1013.    2 NAD-SFC NoSubs
11  3  5  64 11   89.0 -9.000 -9.000 -9.000  432. -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0  288.9  2.0   0  0.00   52.  1012.    2 NAD-SFC NoSubs
11  3  5  64 12   99.8  0.086  1.161  0.007  565.   60.     -1.0  0.0780  0.32  0.15  0.50  291.0  15.0  290.4  2.0   0  0.00   47.  1011.    2 NAD-SFC NoSubs
11  3  5  64 13  101.5  0.151  1.236  0.007  671.  141.     -3.1  0.1620  0.32  0.15  1.00  305.0  15.0  291.5  2.0   0  0.00   43.  1010.    2 NAD-SFC NoSubs
11  3  5  64 14   94.0  0.150  1.244  0.006  737.  139.     -3.2  0.1620  0.32  0.15  1.00  314.0  15.0  292.2  2.0   0  0.00   40.  1009.    2 NAD-SFC NoSubs
11  3  5  64 15   77.5  0.191  1.193  0.006  788.  200.     -8.0  0.1620  0.32  0.16  1.50  320.0  15.0  292.8  2.0   0  0.00   39.  1008.    2 NAD-SFC NoSubs
11  3  5  64 16   52.6  0.188  1.063  0.005  821.  196.    -11.4  0.1880  0.32  0.18  1.50  341.0  15.0  292.9  2.0   0  0.00   39.  1007.    2 NAD-SFC NoSubs
11  3  5  64 17   20.9 -9.000 -9.000 -9.000  833. -999. -99999.0  0.0879  0.32  0.26  0.00    0.0  15.0  292.6  2.0   0  0.00   43.  1007.    2 NAD-SFC NoSubs
11  3  5  64 18   -5.1  0.113 -9.000 -9.000 -999.   92.     25.5  0.1280  0.32  0.53  1.50   33.0  15.0  291.6  2.0   0  0.00   47.  1007.    2 NAD-SFC NoSubs
11  3  5  64 19   -6.0  0.115 -9.000 -9.000 -999.   93.     22.6  0.1280  0.32  1.00  1.50   59.0  15.0  290.4  2.0   0  0.00   52.  1007.    2 NAD-SFC NoSubs
11  3  5  64 20   -1.1  0.070 -9.000 -9.000 -999.   44.     27.9  0.0510  0.32  1.00  0.50  114.0  15.0  289.0  2.0   0  0.00   58.  1007.    2 NAD-SFC NoSubs
11  3  5  64 21   -2.4  0.078 -9.000 -9.000 -999.   52.     17.7  0.0380  0.32  1.00  1.00  156.0  15.0  287.8  2.0   0  0.00   64.  1007.    2 NAD-SFC NoSubs
11  3  5  64 22   -2.4  0.078 -9.000 -9.000 -999.   52.     17.8  0.0380  0.32  1.00  1.00  158.0  15.0  287.0  2.0   0  0.00   67.  1007.    2 NAD-SFC NoSubs
11  3  5  64 23   -2.4  0.078 -9.000 -9.000 -999.   52.     17.8  0.0380  0.32  1.00  1.00  174.0  15.0  286.6  2.0   0  0.00   68.  1007.    2 NAD-SFC NoSubs
11  3  5  64 24   -2.3  0.077 -9.000 -9.000 -999.   51.     17.5  0.0340  0.32  1.00  1.00  227.0  15.0  286.6  2.0   0  0.00   68.  1006.    2 NAD-SFC NoSubs
11  3  6  65  1   -2.2  0.075 -9.000 -9.000 -999.   50.     17.2  0.0310  0.32  1.00  1.00  256.0  15.0  286.8  2.0   0  0.00   69.  1006.    3 NAD-SFC NoSubs
11  3  6  65  2   -9.7  0.144 -9.000 -9.000 -999.  131.     27.9  0.0780  0.32  1.00  2.10  280.0  15.0  286.6  2.0   0  0.00   74.  1006.    4 NAD-SFC NoSubs
11  3  6  65  3  -14.7  0.182 -9.000 -9.000 -999.  187.     36.8  0.0780  0.32  1.00  2.60  280.0  15.0  286.1  2.0   0  0.00   82.  1006.    5 NAD-SFC NoSubs
11  3  6  65  4  -13.8  0.183 -9.000 -9.000 -999.  188.     40.1  0.0780  0.32  1.00  2.60  277.0  15.0  285.8  2.0   0  0.25   88.  1006.    7 NAD-SFC NoSubs
11  3  6  65  5   -3.6  0.103 -9.000 -9.000 -999.   81.     26.9  0.0780  0.32  1.00  1.50  270.0  15.0  285.6  2.0   0  0.25   90.  1005.   10 NAD-SFC NoSubs
11  3  6  65  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  285.5  2.0   0  0.25   92.  1005.   10 NAD-SFC NoSubs
11  3  6  65  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  0.70  0.00    0.0  15.0  285.2  2.0   0  0.25   94.  1005.   10 NAD-SFC NoSubs
11  3  6  65  8    0.5  0.076  0.061  0.007   18.   50.    -87.1  0.0510  0.32  0.31  1.00   95.0  15.0  285.1  2.0   0  0.51   96.  1005.   10 NAD-SFC NoSubs
11  3  6  65  9    8.7  0.127  0.276  0.006   86.  108.    -20.9  0.0510  0.32  0.20  1.50  108.0  15.0  285.2  2.0   0  0.25   95.  1004.   10 NAD-SFC NoSubs
11  3  6  65 10   15.6  0.133  0.405  0.005  152.  116.    -13.4  0.0510  0.32  0.16  1.50  111.0  15.0  285.5  2.0   0  0.25   93.  1004.   10 NAD-SFC NoSubs
11  3  6  65 11   20.5  0.208  0.494  0.005  210.  227.    -39.1  0.0510  0.32  0.15  2.60  108.0  15.0  285.8  2.0   0  0.00   89.  1003.   10 NAD-SFC NoSubs
11  3  6  65 12   23.2  0.206  0.554  0.005  262.  224.    -33.7  0.0460  0.32  0.15  2.60  120.0  15.0  286.1  2.0   0  0.00   85.  1003.   10 NAD-SFC NoSubs
11  3  6  65 13   23.6  0.206  0.587  0.005  305.  225.    -33.2  0.0460  0.32  0.15  2.60  132.0  15.0  286.4  2.0   0  0.00   83.  1002.   10 NAD-SFC NoSubs
11  3  6  65 14   21.7  0.205  0.592  0.005  341.  223.    -35.5  0.0460  0.32  0.15  2.60  127.0  15.0  286.6  2.0   0  0.00   82.  1001.   10 NAD-SFC NoSubs
11  3  6  65 15   17.6  0.202  0.565  0.005  367.  219.    -42.2  0.0460  0.32  0.16  2.60  131.0  15.0  286.8  2.0   0  0.00   84.  1001.   10 NAD-SFC NoSubs
11  3  6  65 16   11.5  0.230  0.498  0.005  384.  265.    -94.6  0.0460  0.32  0.18  3.10  129.0  15.0  287.8  2.0   0  0.00   87.  1000.   10 NAD-SFC NoSubs
11  3  6  65 17    3.5  0.221  0.337  0.005  388.  249.   -275.4  0.0460  0.32  0.26  3.10  141.0  15.0  287.6  2.0   0  0.00   89.   999.   10 NAD-SFC NoSubs
11  3  6  65 18   -7.6  0.163 -9.000 -9.000 -999.  159.    51.0  0.0380  0.32  0.52  2.60  159.0  15.0  287.6  2.0   0  0.00   91.  1000.   10 NAD-SFC NoSubs
11  3  6  65 19   -5.9  0.129 -9.000 -9.000 -999.  111.    32.6  0.0380  0.32  1.00  2.10  166.0  15.0  287.6  2.0   0  0.00   92.  1000.   10 NAD-SFC NoSubs
11  3  6  65 20   -2.8  0.088 -9.000 -9.000 -999.   63.    21.4  0.0330  0.32  1.00  1.50  195.0  15.0  287.5  2.0   0  0.25   93.  1000.   10 NAD-SFC NoSubs
11  3  6  65 21   -2.8  0.088 -9.000 -9.000 -999.   62.    21.4  0.0330  0.32  1.00  1.50  207.0  15.0  287.5  2.0   0  0.25   93.  1000.   10 NAD-SFC NoSubs
11  3  6  65 22   -5.7  0.127 -9.000 -9.000 -999.  108.    31.7  0.0340  0.32  1.00  2.10  230.0  15.0  287.4  2.0   0  0.25   93.  1000.   10 NAD-SFC NoSubs
11  3  6  65 23  -12.1  0.220 -9.000 -9.000 -999.  248.    79.1  0.0310  0.32  1.00  3.60  262.0  15.0  287.1  2.0   0  0.25   93.  1000.   10 NAD-SFC NoSubs
11  3  6  65 24  -20.6  0.375 -9.000 -9.000 -999.  551.   228.7  0.0780  0.32  1.00  5.10  270.0  15.0  286.9  2.0   0  0.00   90.  1000.   10 NAD-SFC NoSubs
11  3  7  66  1  -20.6  0.375 -9.000 -9.000 -999.  551.   228.6  0.0780  0.32  1.00  5.10  274.0  15.0  286.8  2.0   0  0.00   87.  1001.   10 NAD-SFC NoSubs
11  3  7  66  2  -25.3  0.460 -9.000 -9.000 -999.  748.   343.3  0.0780  0.32  1.00  6.20  282.0  15.0  286.5  2.0   0  0.00   85.  1001.   10 NAD-SFC NoSubs
11  3  7  66  3  -27.5  0.499 -9.000 -9.000 -999.  844.   403.0  0.0780  0.32  1.00  6.70  281.0  15.0  286.2  2.0   0  0.00   83.  1002.   10 NAD-SFC NoSubs
11  3  7  66  4  -37.2  0.495 -9.000 -9.000 -999.  837.   292.0  0.0780  0.32  1.00  6.70  286.0  15.0  285.8  2.0   0  0.00   84.  1002.    8 NAD-SFC NoSubs
11  3  7  66  5  -44.8  0.493 -9.000 -9.000 -999.  832.   239.7  0.0780  0.32  1.00  6.70  287.0  15.0  285.2  2.0   0  0.00   83.  1003.    6 NAD-SFC NoSubs
11  3  7  66  6  -47.5  0.489 -9.000 -9.000 -999.  820.   220.2  0.1620  0.32  1.00  5.70  301.0  15.0  284.8  2.0   0  0.00   82.  1004.    5 NAD-SFC NoSubs
11  3  7  66  7  -27.8  0.373 -9.000 -9.000 -999.  556.   166.7  0.0780  0.32  0.68  5.10  296.0  15.0  284.4  2.0   0  0.00   81.  1005.    8 NAD-SFC NoSubs
11  3  7  66  8    0.7  0.680  0.080  0.005   28. 1347. -8888.0  0.1620  0.32  0.31  7.70  321.0  15.0  285.1  2.0   0  0.00   73.  1006.   10 NAD-SFC NoSubs
11  3  7  66  9    8.9  0.508  0.324  0.005  136.  901. -1319.7  0.1620  0.32  0.19  5.70  326.0  15.0  285.2  2.0   0  0.00   72.  1007.   10 NAD-SFC NoSubs
11  3  7  66 10   15.8  0.663  0.491  0.005  267. 1293. -1650.9  0.1880  0.32  0.16  7.20  338.0  15.0  285.5  2.0   0  0.00   68.  1007.   10 NAD-SFC NoSubs
11  3  7  66 11   20.7  0.799  0.601  0.005  377. 1710. -2214.4  0.1880  0.32  0.15  8.70  336.0  15.0  285.8  2.0   0  0.00   64.  1007.   10 NAD-SFC NoSubs
11  3  7  66 12   81.0  0.811  1.186  0.005  741. 1752.  -591.7  0.1880  0.32  0.15  8.70  343.0  15.0  286.1  2.0   0  0.00   60.  1007.    7 NAD-SFC NoSubs
11  3  7  66 13   97.7  0.814  1.320  0.005  846. 1762.  -495.6  0.1880  0.32  0.14  8.70  339.0  15.0  287.0  2.0   0  0.00   54.  1007.    5 NAD-SFC NoSubs
11  3  7  66 14   93.6  0.813  1.345  0.005  935. 1760.  -516.2  0.1880  0.32  0.15  8.70  332.0  15.0  287.6  2.0   0  0.00   49.  1007.    4 NAD-SFC NoSubs
11  3  7  66 15   77.4  0.785  1.293  0.005 1004. 1672.  -560.4  0.1620  0.32  0.15  8.70  328.0  15.0  287.8  2.0   0  0.00   47.  1007.    4 NAD-SFC NoSubs
11  3  7  66 16   53.4  0.762  1.160  0.005 1050. 1598.  -742.9  0.1880  0.32  0.18  8.20  330.0  15.0  287.6  2.0   0  0.00   46.  1007.    3 NAD-SFC NoSubs
11  3  7  66 17   21.8  0.478  0.866  0.005 1067.  887.  -449.9  0.1880  0.32  0.26  5.10  332.0  15.0  287.0  2.0   0  0.00   56.  1007.    3 NAD-SFC NoSubs
11  3  7  66 18  -34.6  0.454 -9.000 -9.000 -999.  738.   242.8  0.1880  0.32  0.52  5.10  332.0  15.0  285.5  2.0   0  0.00   62.  1007.    3 NAD-SFC NoSubs
11  3  7  66 19  -48.0  0.451 -9.000 -9.000 -999.  727.   171.5  0.1880  0.32  1.00  5.10  341.0  15.0  284.4  2.0   0  0.00   65.  1008.    3 NAD-SFC NoSubs
11  3  7  66 20  -43.2  0.405 -9.000 -9.000 -999.  620.   138.0  0.1880  0.32  1.00  4.60  339.0  15.0  283.8  2.0   0  0.00   66.  1008.    3 NAD-SFC NoSubs
11  3  7  66 21  -38.4  0.359 -9.000 -9.000 -999.  518.   108.4  0.1880  0.32  1.00  4.10  338.0  15.0  283.1  2.0   0  0.00   68.  1008.    3 NAD-SFC NoSubs
11  3  7  66 22  -33.7  0.314 -9.000 -9.000 -999.  423.    82.4  0.1880  0.32  1.00  3.60  340.0  15.0  282.5  2.0   0  0.00   70.  1009.    3 NAD-SFC NoSubs
11  3  7  66 23  -28.8  0.268 -9.000 -9.000 -999.  334.    60.1  0.1880  0.32  1.00  3.10  335.0  15.0  282.0  2.0   0  0.00   73.  1009.    3 NAD-SFC NoSubs
11  3  7  66 24   -6.9  0.125 -9.000 -9.000 -999.  121.    25.2  0.1880  0.32  1.00  1.50  340.0  15.0  281.5  2.0   0  0.00   75.  1009.    3 NAD-SFC NoSubs
11  3  8  67  1   -1.3  0.077 -9.000 -9.000 -999.   52.    30.3  0.1280  0.32  1.00  0.50   52.0  15.0  281.1  2.0   0  0.00   78.  1010.    3 NAD-SFC NoSubs
11  3  8  67  2   -1.1  0.070 -9.000 -9.000 -999.   44.    27.9  0.0510  0.32  1.00  0.50   98.0  15.0  280.9  2.0   0  0.00   78.  1010.    3 NAD-SFC NoSubs
11  3  8  67  3   -1.3  0.077 -9.000 -9.000 -999.   51.    30.3  0.1280  0.32  1.00  0.50   58.0  15.0  280.8  2.0   0  0.00   79.  1010.    3 NAD-SFC NoSubs
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11  3  8  67  4   -1.2  0.073 -9.000 -9.000 -999.   47.     28.9  0.0760  0.32  1.00  0.50   66.0  15.0 280.2  2.0   0  0.00   81.  1010.    3 NAD-SFC NoSubs
11  3  8  67  5   -1.1  0.070 -9.000 -9.000 -999.   44.     27.9  0.0510  0.32  1.00  0.50  112.0  15.0 279.6  2.0   0  0.00   84.  1011.    3 NAD-SFC NoSubs
11  3  8  67  6   -1.0  0.068 -9.000 -9.000 -999.   43.     27.2  0.0380  0.32  1.00  0.50  154.0  15.0 279.0  2.0   0  0.00   87.  1012.    3 NAD-SFC NoSubs
11  3  8  67  7   -2.4  0.077 -9.000 -9.000 -999.   52.     17.7  0.0380  0.32  0.67  1.00  158.0  15.0 278.8  2.0   0  0.00   89.  1012.    3 NAD-SFC NoSubs
11  3  8  67  8   11.6  0.090  0.309  0.005   92.   64.     -5.6  0.0330  0.32  0.30  1.00  180.0  15.0 280.6  2.0   0  0.00   79.  1013.    3 NAD-SFC NoSubs
11  3  8  67  9   43.9 -9.000 -9.000 -9.000  326. -999. -99999.0  0.0879  0.32  0.19  0.00    0.0  15.0 282.5  2.0   0  0.00   69.  1013.    2 NAD-SFC NoSubs
11  3  8  67 10   71.3 -9.000 -9.000 -9.000  478. -999. -99999.0  0.0879  0.32  0.16  0.00    0.0  15.0 283.8  2.0   0  0.00   62.  1013.    2 NAD-SFC NoSubs
11  3  8  67 11   90.8 -9.000 -9.000 -9.000  607. -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0 285.2  2.0   0  0.00   54.  1013.    2 NAD-SFC NoSubs
11  3  8  67 12  101.5 -9.000 -9.000 -9.000  735. -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0 286.5  2.0   0  0.00   49.  1012.    2 NAD-SFC NoSubs
11  3  8  67 13  103.0 -9.000 -9.000 -9.000  852. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0 287.6  2.0   0  0.00   45.  1011.    2 NAD-SFC NoSubs
11  3  8  67 14   95.4  0.102  1.358  0.006  948.   78.     -1.0  0.1880  0.32  0.15  0.50  335.0  15.0 288.5  2.0   0  0.00   42.  1011.    2 NAD-SFC NoSubs
11  3  8  67 15   78.8  0.197  1.305  0.006 1016.  210.     -8.7  0.1880  0.32  0.15  1.50  341.0  15.0 289.1  2.0   0  0.00   41.  1010.    2 NAD-SFC NoSubs
11  3  8  67 16   53.8  0.240  1.165  0.006 1059.  282.    -23.1  0.1880  0.32  0.18  2.10  352.0  15.0 289.2  2.0   0  0.00   41.  1010.    2 NAD-SFC NoSubs
11  3  8  67 17   22.0 -9.000 -9.000 -9.000 1076. -999. -99999.0  0.0879  0.32  0.25  0.00    0.0  15.0 289.1  2.0   0  0.00   47.  1010.    2 NAD-SFC NoSubs
11  3  8  67 18   -2.7  0.088 -9.000 -9.000 -999.   62.     22.1  0.1900  0.32  0.51  1.00   14.0  15.0 288.5  2.0   0  0.00   49.  1010.    2 NAD-SFC NoSubs
11  3  8  67 19   -1.3  0.077 -9.000 -9.000 -999.   51.     30.3  0.1280  0.32  1.00  0.50   44.0  15.0 287.5  2.0   0  0.00   53.  1011.    2 NAD-SFC NoSubs
11  3  8  67 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0 286.4  2.0   0  0.00   59.  1011.    2 NAD-SFC NoSubs
11  3  8  67 21   -1.1  0.070 -9.000 -9.000 -999.   45.     28.0  0.0510  0.32  1.00  0.50   91.0  15.0 285.2  2.0   0  0.00   64.  1011.    2 NAD-SFC NoSubs
11  3  8  67 22   -1.1  0.070 -9.000 -9.000 -999.   44.     27.8  0.0460  0.32  1.00  0.50  126.0  15.0 284.2  2.0   0  0.00   70.  1012.    2 NAD-SFC NoSubs
11  3  8  67 23   -2.5  0.080 -9.000 -9.000 -999.   54.     18.2  0.0460  0.32  1.00  1.00  137.0  15.0 283.8  2.0   0  0.00   72.  1012.    2 NAD-SFC NoSubs
11  3  8  67 24   -2.4  0.078 -9.000 -9.000 -999.   52.     17.8  0.0380  0.32  1.00  1.00  154.0  15.0 283.6  2.0   0  0.00   73.  1012.    2 NAD-SFC NoSubs
11  3  9  68  1   -1.1  0.070 -9.000 -9.000 -999.   45.     28.1  0.0510  0.32  1.00  0.50  119.0  15.0 283.5  2.0   0  0.00   73.  1012.    2 NAD-SFC NoSubs
11  3  9  68  2   -1.2  0.073 -9.000 -9.000 -999.   47.     29.1  0.0760  0.32  1.00  0.50   73.0  15.0 283.2  2.0   0  0.00   75.  1012.    2 NAD-SFC NoSubs
11  3  9  68  3   -1.2  0.073 -9.000 -9.000 -999.   48.     29.1  0.0760  0.32  1.00  0.50   78.0  15.0 282.6  2.0   0  0.00   78.  1012.    2 NAD-SFC NoSubs
11  3  9  68  4   -1.1  0.070 -9.000 -9.000 -999.   45.     28.1  0.0510  0.32  1.00  0.50  102.0  15.0 282.2  2.0   0  0.00   80.  1012.    2 NAD-SFC NoSubs
11  3  9  68  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0 282.0  2.0   0  0.00   81.  1012.    2 NAD-SFC NoSubs
11  3  9  68  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0 282.0  2.0   0  0.00   81.  1012.    2 NAD-SFC NoSubs
11  3  9  68  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  0.65  0.00    0.0  15.0 282.0  2.0   0  0.00   81.  1012.    2 NAD-SFC NoSubs
11  3  9  68  8   11.7 -9.000 -9.000 -9.000   47. -999. -99999.0  0.0879  0.32  0.30  0.00    0.0  15.0 282.2  2.0   0  0.00   81.  1013.    2 NAD-SFC NoSubs
11  3  9  68  9   45.0  0.077  0.574  0.007  151.   51.     -1.0  0.0780  0.32  0.19  0.50  292.0  15.0 284.5  2.0   0  0.00   68.  1013.    2 NAD-SFC NoSubs
11  3  9  68 10   72.5  0.126  0.891  0.009  353.  107.     -2.5  0.0780  0.32  0.16  1.00  296.0  15.0 285.9  2.0   0  0.00   64.  1013.    2 NAD-SFC NoSubs
11  3  9  68 11   92.0  0.098  1.069  0.010  479.   74.     -1.0  0.1620  0.32  0.15  0.50  305.0  15.0 287.4  2.0   0  0.00   60.  1012.    2 NAD-SFC NoSubs
11  3  9  68 12  102.6  0.151  1.180  0.010  578.  141.     -3.0  0.1620  0.32  0.14  1.00  316.0  15.0 288.6  2.0   0  0.00   55.  1012.    2 NAD-SFC NoSubs
11  3  9  68 13  104.1  0.156  1.241  0.010  662.  148.     -3.3  0.1880  0.32  0.14  1.00  332.0  15.0 289.5  2.0   0  0.00   54.  1011.    2 NAD-SFC NoSubs
11  3  9  68 14   96.4  0.155  1.241  0.009  715.  146.     -3.5  0.1880  0.32  0.15  1.00  344.0  15.0 290.2  2.0   0  0.00   52.  1010.    2 NAD-SFC NoSubs
11  3  9  68 15   79.8  0.197  1.187  0.009  756.  210.     -8.7  0.1880  0.32  0.15  1.50  350.0  15.0 290.8  2.0   0  0.00   52.  1010.    2 NAD-SFC NoSubs
11  3  9  68 16   54.7 -9.000 -9.000 -9.000  783. -999. -99999.0  0.0879  0.32  0.18  0.00    0.0  15.0 290.8  2.0   0  0.00   54.  1009.    2 NAD-SFC NoSubs
11  3  9  68 17   22.8  0.224  0.795  0.009  793.  255.    -44.5  0.1900  0.32  0.25  2.10   15.0  15.0 290.2  2.0   0  0.00   59.  1009.    2 NAD-SFC NoSubs
11  3  9  68 18   -2.6  0.087 -9.000 -9.000 -999.   78.     22.3  0.1900  0.32  0.50  1.00    5.0  15.0 289.5  2.0   0  0.00   62.  1009.    2 NAD-SFC NoSubs
11  3  9  68 19   -1.2  0.073 -9.000 -9.000 -999.   47.     29.0  0.0780  0.32  1.00  0.50  276.0  15.0 288.8  2.0   0  0.00   66.  1010.    2 NAD-SFC NoSubs
11  3  9  68 20   -2.3  0.076 -9.000 -9.000 -999.   50.     17.3  0.0310  0.32  1.00  1.00  246.0  15.0 287.9  2.0   0  0.00   71.  1010.    2 NAD-SFC NoSubs
11  3  9  68 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0 287.2  2.0   0  0.00   74.  1010.    2 NAD-SFC NoSubs
11  3  9  68 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0 286.8  2.0   0  0.00   77.  1010.    2 NAD-SFC NoSubs
11  3  9  68 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0 286.2  2.0   0  0.00   80.  1010.    2 NAD-SFC NoSubs
11  3  9  68 24   -1.5  0.080 -9.000 -9.000 -999.   55.     31.3  0.1900  0.32  1.00  0.50   18.0  15.0 285.9  2.0   0  0.00   81.  1010.    2 NAD-SFC NoSubs
11  3 10  69  1   -1.4  0.077 -9.000 -9.000 -999.   51.     30.4  0.1280  0.32  1.00  0.50   39.0  15.0 285.5  2.0   0  0.00   83.  1010.    2 NAD-SFC NoSubs
11  3 10  69  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0 285.0  2.0   0  0.00   84.  1010.    2 NAD-SFC NoSubs
11  3 10  69  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0 284.4  2.0   0  0.00   87.  1009.    2 NAD-SFC NoSubs
11  3 10  69  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0 283.8  2.0   0  0.00   90.  1009.    2 NAD-SFC NoSubs
11  3 10  69  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0 283.2  2.0   0  0.00   92.  1009.    2 NAD-SFC NoSubs
11  3 10  69  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0 282.8  2.0   0  0.00   94.  1009.    2 NAD-SFC NoSubs
11  3 10  69  7   -1.5  0.080 -9.000 -9.000 -999.   54.     31.1  0.1900  0.32  0.64  0.50   19.0  15.0 282.5  2.0   0  0.00   94.  1009.    2 NAD-SFC NoSubs
11  3 10  69  8   12.7  0.078  0.256  0.014   48.   52.     -3.4  0.1880  0.32  0.29  0.50  347.0  15.0 283.2  2.0   0  0.00   89.  1010.    2 NAD-SFC NoSubs
11  3 10  69  9   46.2  0.186  0.555  0.010  133.  192.    -12.5  0.1880  0.32  0.19  1.50  335.0  15.0 286.5  2.0   0  0.00   72.  1010.    2 NAD-SFC NoSubs
11  3 10  69 10   73.8  0.150  0.792  0.009  242.  140.     -4.1  0.1880  0.32  0.16  1.00  330.0  15.0 288.6  2.0   0  0.00   64.  1010.    2 NAD-SFC NoSubs
11  3 10  69 11   93.4  0.195  0.982  0.008  365.  206.     -7.1  0.1620  0.32  0.15  1.50  322.0  15.0 290.8  2.0   0  0.00   55.  1010.    2 NAD-SFC NoSubs
11  3 10  69 12  104.0  0.203  1.111  0.007  474.  220.     -7.3  0.1880  0.32  0.14  1.50  335.0  15.0 291.8  2.0   0  0.00   50.  1009.    2 NAD-SFC NoSubs
11  3 10  69 13  105.4  0.256  1.184  0.007  567.  310.    -14.3  0.1880  0.32  0.14  2.10  339.0  15.0 292.4  2.0   0  0.00   47.  1009.    2 NAD-SFC NoSubs
11  3 10  69 14   97.7  0.254  1.203  0.007  642.  307.    -15.1  0.1880  0.32  0.15  2.10  346.0  15.0 292.9  2.0   0  0.00   46.  1008.    2 NAD-SFC NoSubs
11  3 10  69 15   81.1  0.249  1.172  0.007  715.  299.    -17.2  0.1880  0.32  0.15  2.10  350.0  15.0 293.4  2.0   0  0.00   45.  1008.    2 NAD-SFC NoSubs
11  3 10  69 16   56.5  0.324  1.064  0.007  766.  442.    -54.0  0.1880  0.32  0.18  3.10  348.0  15.0 293.6  2.0   0  0.00   45.  1008.    3 NAD-SFC NoSubs
11  3 10  69 17   24.8  0.308  0.816  0.007  786.  411.   -106.2  0.1880  0.32  0.25  3.10  358.0  15.0 293.1  2.0   0  0.00   53.  1008.    3 NAD-SFC NoSubs
11  3 10  69 18  -20.0  0.318 -9.000 -9.000 -999.  430.    144.7  0.1900  0.32  0.50  3.60   14.0  15.0 292.0  2.0   0  0.00   57.  1008.    3 NAD-SFC NoSubs
11  3 10  69 19  -21.0  0.223 -9.000 -9.000 -999.  257.     47.3  0.1900  0.32  1.00  2.60   16.0  15.0 290.9  2.0   0  0.00   60.  1008.    3 NAD-SFC NoSubs
11  3 10  69 20   -1.4  0.079 -9.000 -9.000 -999.   76.     30.9  0.1900  0.32  1.00  0.50   29.0  15.0 289.9  2.0   0  0.00   64.  1008.    3 NAD-SFC NoSubs
11  3 10  69 21   -4.0  0.091 -9.000 -9.000 -999.   66.     16.9  0.0340  0.32  1.00  1.50  236.0  15.0 288.8  2.0   0  0.00   70.  1009.    4 NAD-SFC NoSubs
11  3 10  69 22  -16.7  0.185 -9.000 -9.000 -999.  191.     34.1  0.0310  0.32  1.00  3.10  267.0  15.0 287.8  2.0   0  0.00   75.  1009.    4 NAD-SFC NoSubs
11  3 10  69 23  -39.8  0.391 -9.000 -9.000 -999.  586.    134.7  0.1620  0.32  1.00  4.60  308.0  15.0 286.8  2.0   0  0.00   81.  1009.    4 NAD-SFC NoSubs
11  3 10  69 24  -40.0  0.391 -9.000 -9.000 -999.  586.    134.1  0.1620  0.32  1.00  4.60  329.0  15.0 285.5  2.0   0  0.00   89.  1009.    4 NAD-SFC NoSubs
11  3 11  70  1  -36.9  0.360 -9.000 -9.000 -999.  518.    113.3  0.1880  0.32  1.00  4.10  332.0  15.0 284.8  2.0   0  0.00   95.  1009.    4 NAD-SFC NoSubs
11  3 11  70  2  -29.6  0.303 -9.000 -9.000 -999.  402.     84.4  0.1620  0.32  1.00  3.60  321.0  15.0 284.2  2.0   0  0.00   98.  1009.    5 NAD-SFC NoSubs
11  3 11  70  3  -17.9  0.216 -9.000 -9.000 -999.  244.     50.4  0.1620  0.32  1.00  2.60  320.0  15.0 283.8  2.0   0  0.00   99.  1009.    7 NAD-SFC NoSubs
11  3 11  70  4   -5.0  0.126 -9.000 -9.000 -999.  110.     35.6  0.1880  0.32  1.00  1.50  334.0  15.0 283.1  2.0   0  0.00  100.  1009.   10 NAD-SFC NoSubs
11  3 11  70  5   -2.2  0.084 -9.000 -9.000 -999.   58.     23.8  0.1880  0.32  1.00  1.00  345.0  15.0 283.4  2.0   0  0.00  100.  1009.   10 NAD-SFC NoSubs
11  3 11  70  6   -2.2  0.084 -9.000 -9.000 -999.   58.     23.8  0.1880  0.32  1.00  1.00  332.0  15.0 283.6  2.0   0  0.00   99.  1009.   10 NAD-SFC NoSubs
11  3 11  70  7   -2.1  0.081 -9.000 -9.000 -999.   55.     23.0  0.1620  0.32  0.63  1.00  307.0  15.0 283.8  2.0   0  0.25   98.  1009.   10 NAD-SFC NoSubs
11  3 11  70  8    1.3  0.140  0.099  0.007   26.  125.   -187.4  0.1620  0.32  0.29  1.50  302.0  15.0 283.8  2.0   0  0.51   97.  1010.   10 NAD-SFC NoSubs
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11	3	11	70	9	9.6	0.137	0.276	0.007	78.	122.	-24.0	0.0780	0.32	0.19	1.50	298.0	15.0	283.9	2.0	0	0.25	95.	1010.	10	NAD-SFC NoSubs
11	3	11	70	10	16.5	0.212	0.471	0.008	227.	234.	-52.0	0.1620	0.32	0.16	2.10	304.0	15.0	284.2	2.0	0	0.25	92.	1010.	10	NAD-SFC NoSubs
11	3	11	70	11	92.3	0.214	0.973	0.007	360.	237.	-9.5	0.0780	0.32	0.15	2.10	298.0	15.0	284.6	2.0	0	0.00	88.	1010.	4	NAD-SFC NoSubs
11	3	11	70	12	103.6	0.248	1.116	0.007	483.	296.	-13.2	0.1620	0.32	0.14	2.10	303.0	15.0	285.0	2.0	0	0.00	86.	1009.	3	NAD-SFC NoSubs
11	3	11	70	13	105.0	0.152	1.197	0.006	587.	146.	-3.0	0.1620	0.32	0.14	1.00	327.0	15.0	286.0	2.0	0	0.00	81.	1008.	2	NAD-SFC NoSubs
11	3	11	70	14	97.4	0.102	1.222	0.005	674.	79.	-1.0	0.1900	0.32	0.15	0.50	27.0	15.0	287.6	2.0	0	0.00	72.	1008.	2	NAD-SFC NoSubs
11	3	11	70	15	80.7	0.183	1.191	0.005	752.	188.	-6.8	0.1280	0.32	0.15	1.50	55.0	15.0	288.5	2.0	0	0.00	66.	1007.	2	NAD-SFC NoSubs
11	3	11	70	16	55.7	0.262	1.075	0.005	801.	322.	-29.0	0.1280	0.32	0.18	2.60	34.0	15.0	288.9	2.0	0	0.00	58.	1007.	2	NAD-SFC NoSubs
11	3	11	70	17	24.5	0.285	0.824	0.005	821.	366.	-85.2	0.1280	0.32	0.25	3.10	39.0	15.0	288.6	2.0	0	0.00	62.	1007.	3	NAD-SFC NoSubs
11	3	11	70	18	-15.9	0.247	-9.000	-9.000	-999.	296.	85.7	0.1280	0.32	0.49	3.10	46.0	15.0	287.8	2.0	0	0.00	69.	1007.	3	NAD-SFC NoSubs
11	3	11	70	19	-15.2	0.181	-9.000	-9.000	-999.	186.	34.8	0.0760	0.32	1.00	2.60	65.0	15.0	286.8	2.0	0	0.00	73.	1008.	3	NAD-SFC NoSubs
11	3	11	70	20	-2.4	0.079	-9.000	-9.000	-999.	59.	18.2	0.0510	0.32	1.00	1.00	97.0	15.0	285.9	2.0	0	0.00	77.	1008.	4	NAD-SFC NoSubs
11	3	11	70	21	-2.2	0.075	-9.000	-9.000	-999.	49.	17.3	0.0330	0.32	1.00	1.00	200.0	15.0	285.1	2.0	0	0.00	81.	1008.	4	NAD-SFC NoSubs
11	3	11	70	22	-4.0	0.090	-9.000	-9.000	-999.	65.	16.6	0.0310	0.32	1.00	1.50	245.0	15.0	284.5	2.0	0	0.00	82.	1009.	4	NAD-SFC NoSubs
11	3	11	70	23	-7.5	0.122	-9.000	-9.000	-999.	102.	21.6	0.0310	0.32	1.00	2.10	261.0	15.0	283.8	2.0	0	0.00	79.	1009.	4	NAD-SFC NoSubs
11	3	11	70	24	-21.9	0.220	-9.000	-9.000	-999.	247.	43.5	0.0780	0.32	1.00	3.10	293.0	15.0	282.9	2.0	0	0.00	79.	1010.	4	NAD-SFC NoSubs
11	3	12	71	1	-29.9	0.303	-9.000	-9.000	-999.	400.	83.8	0.1620	0.32	1.00	3.60	310.0	15.0	282.1	2.0	0	0.00	81.	1010.	5	NAD-SFC NoSubs
11	3	12	71	2	-23.4	0.304	-9.000	-9.000	-999.	403.	108.7	0.1620	0.32	1.00	3.60	317.0	15.0	281.6	2.0	0	0.00	83.	1010.	8	NAD-SFC NoSubs
11	3	12	71	3	-15.4	0.272	-9.000	-9.000	-999.	341.	118.1	0.1880	0.32	1.00	3.10	330.0	15.0	281.5	2.0	0	0.00	83.	1011.	10	NAD-SFC NoSubs
11	3	12	71	4	-12.3	0.218	-9.000	-9.000	-999.	246.	76.0	0.1620	0.32	1.00	2.60	320.0	15.0	281.5	2.0	0	0.00	82.	1011.	10	NAD-SFC NoSubs
11	3	12	71	5	-6.0	0.120	-9.000	-9.000	-999.	104.	25.8	0.1620	0.32	1.00	1.50	319.0	15.0	281.2	2.0	0	0.00	82.	1011.	6	NAD-SFC NoSubs
11	3	12	71	6	-1.4	0.077	-9.000	-9.000	-999.	52.	30.5	0.1620	0.32	1.00	0.50	301.0	15.0	280.8	2.0	0	0.00	84.	1012.	4	NAD-SFC NoSubs
11	3	12	71	7	6.9	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	0.61	0.00	0.0	15.0	280.2	2.0	0	0.00	89.	1012.	3	NAD-SFC NoSubs
11	3	12	71	8	15.1	-9.000	-9.000	-9.000	154.	-999.	-99999.0	0.0879	0.32	0.28	0.00	0.0	15.0	281.6	2.0	0	0.00	79.	1012.	3	NAD-SFC NoSubs
11	3	12	71	9	47.5	-9.000	-9.000	-9.000	288.	-999.	-99999.0	0.0879	0.32	0.19	0.00	0.0	15.0	283.1	2.0	0	0.00	73.	1012.	2	NAD-SFC NoSubs
11	3	12	71	10	74.9	-9.000	-9.000	-9.000	418.	-999.	-99999.0	0.0879	0.32	0.16	0.00	0.0	15.0	284.5	2.0	0	0.00	68.	1012.	2	NAD-SFC NoSubs
11	3	12	71	11	94.2	-9.000	-9.000	-9.000	564.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	285.9	2.0	0	0.00	62.	1012.	2	NAD-SFC NoSubs
11	3	12	71	12	104.7	-9.000	-9.000	-9.000	703.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	287.2	2.0	0	0.00	54.	1011.	2	NAD-SFC NoSubs
11	3	12	71	13	106.1	-9.000	-9.000	-9.000	844.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	288.4	2.0	0	0.00	48.	1010.	2	NAD-SFC NoSubs
11	3	12	71	14	98.3	0.086	1.377	0.005	957.	60.	-1.0	0.0780	0.32	0.15	0.50	299.0	15.0	289.2	2.0	0	0.00	43.	1010.	2	NAD-SFC NoSubs
11	3	12	71	15	81.6	0.192	1.348	0.007	1081.	202.	-7.8	0.1620	0.32	0.15	1.50	320.0	15.0	289.9	2.0	0	0.00	40.	1009.	2	NAD-SFC NoSubs
11	3	12	71	16	56.5	0.241	1.222	0.009	1164.	284.	-22.2	0.1880	0.32	0.17	2.10	343.0	15.0	290.0	2.0	0	0.00	40.	1009.	2	NAD-SFC NoSubs
11	3	12	71	17	24.4	0.267	0.934	0.009	1197.	331.	-69.8	0.1900	0.32	0.25	2.60	2.0	15.0	289.8	2.0	0	0.00	46.	1008.	2	NAD-SFC NoSubs
11	3	12	71	18	-10.9	0.180	-9.000	-9.000	-999.	187.	48.3	0.1900	0.32	0.48	2.10	25.0	15.0	289.1	2.0	0	0.00	49.	1009.	2	NAD-SFC NoSubs
11	3	12	71	19	-1.2	0.072	-9.000	-9.000	-999.	55.	28.7	0.0760	0.32	1.00	0.50	74.0	15.0	288.2	2.0	0	0.00	53.	1009.	3	NAD-SFC NoSubs
11	3	12	71	20	-1.1	0.068	-9.000	-9.000	-999.	43.	27.4	0.0460	0.32	1.00	0.50	131.0	15.0	287.2	2.0	0	0.00	59.	1009.	3	NAD-SFC NoSubs
11	3	12	71	21	-2.5	0.079	-9.000	-9.000	-999.	54.	18.2	0.0460	0.32	1.00	1.00	127.0	15.0	286.2	2.0	0	0.00	64.	1009.	2	NAD-SFC NoSubs
11	3	12	71	22	-8.8	0.133	-9.000	-9.000	-999.	116.	23.8	0.0510	0.32	1.00	2.10	117.0	15.0	285.2	2.0	0	0.00	69.	1010.	2	NAD-SFC NoSubs
11	3	12	71	23	-13.3	0.164	-9.000	-9.000	-999.	159.	29.5	0.0460	0.32	1.00	2.60	127.0	15.0	284.2	2.0	0	0.00	72.	1010.	2	NAD-SFC NoSubs
11	3	12	71	24	-13.4	0.164	-9.000	-9.000	-999.	159.	29.5	0.0460	0.32	1.00	2.60	140.0	15.0	283.8	2.0	0	0.00	73.	1011.	2	NAD-SFC NoSubs
11	3	13	72	1	-8.6	0.130	-9.000	-9.000	-999.	113.	23.1	0.0460	0.32	1.00	2.10	136.0	15.0	283.4	2.0	0	0.00	74.	1011.	2	NAD-SFC NoSubs
11	3	13	72	2	-4.5	0.096	-9.000	-9.000	-999.	72.	17.7	0.0460	0.32	1.00	1.50	139.0	15.0	282.9	2.0	0	0.00	75.	1011.	2	NAD-SFC NoSubs
11	3	13	72	3	-4.6	0.096	-9.000	-9.000	-999.	72.	17.7	0.0460	0.32	1.00	1.50	137.0	15.0	282.4	2.0	0	0.00	77.	1011.	2	NAD-SFC NoSubs
11	3	13	72	4	-4.6	0.096	-9.000	-9.000	-999.	72.	17.7	0.0460	0.32	1.00	1.50	138.0	15.0	282.0	2.0	0	0.00	78.	1011.	2	NAD-SFC NoSubs
11	3	13	72	5	-4.6	0.096	-9.000	-9.000	-999.	72.	17.7	0.0460	0.32	1.00	1.50	149.0	15.0	281.8	2.0	0	0.00	79.	1012.	2	NAD-SFC NoSubs
11	3	13	72	6	-4.4	0.094	-9.000	-9.000	-999.	69.	17.0	0.0380	0.32	1.00	1.50	152.0	15.0	281.4	2.0	0	0.00	80.	1012.	2	NAD-SFC NoSubs
11	3	13	72	7	-4.3	0.095	-9.000	-9.000	-999.	71.	18.0	0.0460	0.32	0.60	1.50	137.0	15.0	281.2	2.0	0	0.00	80.	1012.	2	NAD-SFC NoSubs
11	3	13	72	8	15.1	0.097	0.292	0.006	59.	72.	-5.4	0.0460	0.32	0.28	1.00	143.0	15.0	282.0	2.0	0	0.00	77.	1012.	2	NAD-SFC NoSubs
11	3	13	72	9	48.5	0.068	0.640	0.005	195.	43.	-1.0	0.0380	0.32	0.18	0.50	168.0	15.0	284.1	2.0	0	0.00	68.	1013.	2	NAD-SFC NoSubs
11	3	13	72	10	76.2	-9.000	-9.000	-9.000	386.	-999.	-99999.0	0.0879	0.32	0.16	0.00	0.0	15.0	285.8	2.0	0	0.00	61.	1013.	3	NAD-SFC NoSubs
11	3	13	72	11	95.4	-9.000	-9.000	-9.000	684.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	287.5	2.0	0	0.00	55.	1013.	3	NAD-SFC NoSubs
11	3	13	72	12	105.7	-9.000	-9.000	-9.000	800.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	288.6	2.0	0	0.00	52.	1012.	3	NAD-SFC NoSubs
11	3	13	72	13	107.0	-9.000	-9.000	-9.000	903.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	289.4	2.0	0	0.00	49.	1012.	3	NAD-SFC NoSubs
11	3	13	72	14	99.3	-9.000	-9.000	-9.000	981.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	290.2	2.0	0	0.00	47.	1011.	3	NAD-SFC NoSubs
11	3	13	72	15	82.8	-9.000	-9.000	-9.000	1016.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	291.0	2.0	0	0.00	44.	1010.	3	NAD-SFC NoSubs
11	3	13	72	16	57.9	0.088	1.187	0.010	1040.	62.	-1.0	0.1280	0.32	0.17	0.50	48.0	15.0	291.5	2.0	0	0.00	43.	1010.	3	NAD-SFC NoSubs
11	3	13	72	17	26.2	0.163	0.914	0.010	1050.	158.	-14.9	0.1280	0.32	0.24	1.50	58.0	15.0	291.5	2.0	0	0.00	46.	1010.	3	NAD-SFC NoSubs
11	3	13	72	18	-3.6	0.102	-9.000	-9.000	-999.	79.	26.7	0.0760	0.32	0.48	1.50	72.0	15.0	290.8	2.0	0	0.00	49.	1010.	3	NAD-SFC NoSubs
11	3	13	72	19	-1.0	0.067	-9.000	-9.000	-999.	42.	26.9	0.0380	0.32	1.00	0.50	152.0	15.0	289.8	2.0	0	0.00	53.	1011.	3	NAD-SFC NoSubs
11	3	13	72	20	-2.3	0.076	-9.000	-9.000	-999.	50.	17.4	0.0340	0.32	1.00	1.00	222.0	15.0	288.5	2.0	0	0.00	59.	1011.	3	NAD-SFC NoSubs
11	3	13	72	21	-2.3	0.076	-9.000	-9.000	-999.	50.	17.4	0.0340	0.32	1.00	1.00	235.0	15.0	287.6	2.0	0	0.00	63.	1012.	3	NAD-SFC NoSubs
11	3	13	72	22	-4.0	0.090	-9.000	-9.000	-999.	65.	16.5	0.0310	0.32	1.00	1.50	265.0	15.0	287.1	2.0	0	0.00	67.	1013.	3	NAD-SFC NoSubs
11	3	13	72	23	-15.4	0.182	-9.000	-9.000	-999.	186.	35.0	0.0780	0.32	1.00	2.60	283.0	15.0	286.5	2.0	0	0.00	78.	1013.	3	NAD-SFC NoSubs
11	3	13	72	24	-9.7	0.144	-9.000	-9.000	-999.	132.	27.9	0.0780	0.32	1.00	2.10	289.0	15.0	286.0	2.0	0	0.00	88.	1013.	4	NAD-SFC NoSubs
11	3	14	73	1	-2.7	0.083	-9.000	-9.000	-999.	58.	19.2	0.0780	0.32	1.00	1.00	290.0	15.0	285.8	2.0	0	0.00	92.	1013.	4	NAD-SFC NoSubs
11	3	14	73	2	-1.0	0.066	-9.000	-9.000	-999.	40.	26.4	0.0340	0.32	1.00	0.50	222.0	15.0	285.8	2.0	0	0.00	94.	1013.	4	NAD-SFC NoSubs
11	3	14	73	3	-1.0	0.066	-9.000	-9.000	-999.	41.	26.5	0.0310	0.32	1.00	0.50	244.0	15.0	285.8	2.0	0	0.00	95.	1013.	3	NAD-SFC NoSubs
11	3	14	73	4	-1.0	0.067	-9.000	-9.000	-999.	41.	26.7	0.0330	0.32	1.00	0.50	195.0	15.0	285.5	2.0	0	0.00	96.	1013.	3	NAD-SFC NoSubs
11	3	14	73	5	-2.4	0.077	-9.000	-9.000	-999.	52.	17.7	0.0380	0.32	1.00	1.00	171.0	15.0	285.0	2.0	0	0.00	98.	1013.	3	NAD-SFC NoSubs
11	3	14	73	6	-2.4	0.077	-9.000	-9.000	-999.	52.	17.7	0.0380	0.32	1.00	1.00	175.0	15.0	284.5	2.0	0	0.00	100.	1013.	3	NAD-SFC NoSubs
11	3	14	73	7	-4.0	0.092	-9.000	-9.000	-999.	67.	17.6	0.0380	0.32	0.59	1.50	166.0	15.0	284.1	2.0	0	0.00	100.	1013.	3	NAD-SFC NoSubs
11	3	14	73	8	17.2	0.093	0.368	0.006	104.	68.	-4.2	0.0330	0.32	0.27	1.00	201.0	15.0	284.9	2.0	0	0.00	97.	1013.	3	NAD-SFC NoSubs
11	3	14	73	9	50.5	0.067	0.713	0.006	258.	42.	-1.0	0.0340	0.32	0.18	0.50	214.0	15.0	287.6	2.0	0	0.00	83.	1013.	3	NAD-SFC NoSubs
11	3	14	73	10	77.7	-9.000	-9.000	-9.000	428.	-999.	-99999.0	0.0879	0.32	0.16	0.00	0.0	15.0	289.4	2.0	0	0.00	72.	1013.	3	NAD-SFC NoSubs
11	3	14	73	11	96.7	-9.000	-9.000	-9.000	584.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	291.1	2.0	0	0.00	63.	1012.	2	NAD-SFC NoSubs
11	3	14	73	12	107.2	-9.000	-9.000	-9.000	707.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	292.5	2.0	0	0.00	55.	1011.	2	NAD-SFC NoSubs
11	3	14	73	13	108.6	-9.000	-9.000	-9.000	801.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	293.6	2.0	0	0.00	50.	1010.	2	NAD-SFC NoSubs

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11  3 14  73 14  100.8  0.086  1.350  0.006  879.   60.     -1.0  0.0780  0.32  0.15  0.50  282.0  15.0  294.4  2.0  0  0.00  48.  1009.   2 NAD-SFC NoSubs
11  3 14  73 15   84.0  0.128  1.299  0.006  939.  110.     -2.3  0.0780  0.32  0.15  1.00  292.0  15.0  294.8  2.0  0  0.00  46.  1009.   2 NAD-SFC NoSubs
11  3 14  73 16   58.8  0.191  1.170  0.006  980.  200.    -10.6  0.1880  0.32  0.17  1.50  330.0  15.0  294.8  2.0  0  0.00  46.  1008.   2 NAD-SFC NoSubs
11  3 14  73 17   27.5 -9.000 -9.000 -9.000 1000. -999. -99999.0  0.0879  0.32  0.24  0.00    0.0  15.0  294.5  2.0  0  0.00  51.  1008.   3 NAD-SFC NoSubs
11  3 14  73 18  -11.3  0.275 -9.000 -9.000 -999.  345.    164.8  0.1900  0.32  0.47  3.10   11.0  15.0  293.5  2.0  0  0.00  55.  1009.   4 NAD-SFC NoSubs
11  3 14  73 19  -20.7  0.223 -9.000 -9.000 -999.  254.     48.5  0.1900  0.32  1.00  2.60   21.0  15.0  292.5  2.0  0  0.00  59.  1009.   4 NAD-SFC NoSubs
11  3 14  73 20   -3.3  0.093 -9.000 -9.000 -999.   81.     21.9  0.1900  0.32  1.00  1.00   20.0  15.0  291.6  2.0  0  0.00  62.  1009.   4 NAD-SFC NoSubs
11  3 14  73 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  290.8  2.0  0  0.00  66.  1010.   4 NAD-SFC NoSubs
11  3 14  73 22   -2.2  0.074 -9.000 -9.000 -999.   49.     17.1  0.0310  0.32  1.00  1.00  260.0  15.0  289.9  2.0  0  0.00  71.  1010.   4 NAD-SFC NoSubs
11  3 14  73 23   -3.9  0.090 -9.000 -9.000 -999.   65.     16.7  0.0310  0.32  1.00  1.50  267.0  15.0  289.2  2.0  0  0.00  75.  1010.   4 NAD-SFC NoSubs
11  3 14  73 24   -5.1  0.104 -9.000 -9.000 -999.   81.     20.1  0.0780  0.32  1.00  1.50  270.0  15.0  288.6  2.0  0  0.00  81.  1010.   3 NAD-SFC NoSubs
11  3 15  74  1   -9.8  0.144 -9.000 -9.000 -999.  131.     27.4  0.0780  0.32  1.00  2.10  292.0  15.0  288.1  2.0  0  0.00  85.  1010.   3 NAD-SFC NoSubs
11  3 15  74  2  -19.9  0.214 -9.000 -9.000 -999.  238.     44.4  0.1620  0.32  1.00  2.60  315.0  15.0  287.6  2.0  0  0.00  88.  1010.   3 NAD-SFC NoSubs
11  3 15  74  3  -19.9  0.214 -9.000 -9.000 -999.  238.     44.4  0.1620  0.32  1.00  2.60  328.0  15.0  287.2  2.0  0  0.00  90.  1010.   3 NAD-SFC NoSubs
11  3 15  74  4   -6.5  0.120 -9.000 -9.000 -999.  104.     24.3  0.1620  0.32  1.00  1.50  328.0  15.0  286.8  2.0  0  0.00  93.  1010.   3 NAD-SFC NoSubs
11  3 15  74  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  286.4  2.0  0  0.00  94.  1010.   3 NAD-SFC NoSubs
11  3 15  74  6   -1.3  0.076 -9.000 -9.000 -999.   50.     30.1  0.1280  0.32  1.00  0.50   36.0  15.0  286.1  2.0  0  0.00  95.  1010.   3 NAD-SFC NoSubs
11  3 15  74  7    8.5 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  0.57  0.00    0.0  15.0  285.8  2.0  0  0.00  97.  1010.   3 NAD-SFC NoSubs
11  3 15  74  8   18.3  0.076  0.434  0.007  161.   50.     -2.1  0.1280  0.32  0.27  0.50   46.0  15.0  286.4  2.0  0  0.00  93.  1010.   3 NAD-SFC NoSubs
11  3 15  74  9   51.6 -9.000 -9.000 -9.000  268. -999. -99999.0  0.0879  0.32  0.18  0.00    0.0  15.0  288.4  2.0  0  0.00  83.  1010.   3 NAD-SFC NoSubs
11  3 15  74 10   78.7 -9.000 -9.000 -9.000  371. -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0  290.2  2.0  0  0.00  73.  1009.   3 NAD-SFC NoSubs
11  3 15  74 11   97.8 -9.000 -9.000 -9.000  529. -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0  291.8  2.0  0  0.00  66.  1009.   3 NAD-SFC NoSubs
11  3 15  74 12  108.1 -9.000 -9.000 -9.000  678. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  293.2  2.0  0  0.00  59.  1008.   2 NAD-SFC NoSubs
11  3 15  74 13  109.5 -9.000 -9.000 -9.000  825. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  294.6  2.0  0  0.00  52.  1007.   2 NAD-SFC NoSubs
11  3 15  74 14  101.8  0.086  1.386  0.006  941.   60.     -1.0  0.0780  0.32  0.15  0.50  282.0  15.0  295.4  2.0  0  0.00  49.  1007.   3 NAD-SFC NoSubs
11  3 15  74 15   85.2 -9.000 -9.000 -9.000 1011. -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0  295.9  2.0  0  0.00  47.  1006.   3 NAD-SFC NoSubs
11  3 15  74 16   60.2  0.136  1.209  0.007 1052.  120.     -3.7  0.1280  0.32  0.17  1.00   30.0  15.0  296.0  2.0  0  0.00  46.  1005.   3 NAD-SFC NoSubs
11  3 15  74 17   28.3  0.135  0.946  0.007 1070.  118.     -7.7  0.1900  0.32  0.24  1.00   15.0  15.0  295.8  2.0  0  0.00  51.  1005.   3 NAD-SFC NoSubs
11  3 15  74 18   -1.9  0.083 -9.000 -9.000 -999.   58.     26.6  0.1880  0.32  0.47  1.00  351.0  15.0  294.9  2.0  0  0.00  56.  1005.   3 NAD-SFC NoSubs
11  3 15  74 19   -3.2  0.092 -9.000 -9.000 -999.   66.     21.4  0.1620  0.32  1.00  1.00  314.0  15.0  293.8  2.0  0  0.00  62.  1006.   3 NAD-SFC NoSubs
11  3 15  74 20  -16.5  0.185 -9.000 -9.000 -999.  191.     34.5  0.0310  0.32  1.00  3.10  268.0  15.0  292.8  2.0  0  0.00  66.  1006.   4 NAD-SFC NoSubs
11  3 15  74 21  -38.6  0.370 -9.000 -9.000 -999.  541.    118.1  0.0780  0.32  1.00  5.10  276.0  15.0  290.5  2.0  0  0.00  79.  1007.   3 NAD-SFC NoSubs
11  3 15  74 22  -37.4  0.370 -9.000 -9.000 -999.  541.    122.2  0.0780  0.32  1.00  5.10  276.0  15.0  289.1  2.0  0  0.00  86.  1007.   4 NAD-SFC NoSubs
11  3 15  74 23  -26.0  0.258 -9.000 -9.000 -999.  321.     59.0  0.0780  0.32  1.00  3.60  284.0  15.0  288.8  2.0  0  0.00  87.  1008.   4 NAD-SFC NoSubs
11  3 15  74 24  -21.2  0.220 -9.000 -9.000 -999.  248.     45.3  0.0780  0.32  1.00  3.10  278.0  15.0  288.5  2.0  0  0.00  88.  1007.   5 NAD-SFC NoSubs
11  3 16  75  1   -9.4  0.145 -9.000 -9.000 -999.  134.     28.8  0.0780  0.32  1.00  2.10  281.0  15.0  288.5  2.0  0  0.00  89.  1007.   5 NAD-SFC NoSubs
11  3 16  75  2   -2.2  0.078 -9.000 -9.000 -999.   53.     18.8  0.0780  0.32  1.00  1.00  272.0  15.0  288.4  2.0  0  0.00  89.  1007.   7 NAD-SFC NoSubs
11  3 16  75  3   -1.7  0.071 -9.000 -9.000 -999.   45.     19.2  0.0780  0.32  1.00  1.00  281.0  15.0  288.4  2.0  0  0.00  89.  1007.  10 NAD-SFC NoSubs
11  3 16  75  4   -3.6  0.103 -9.000 -9.000 -999.   79.     27.0  0.0780  0.32  1.00  1.50  281.0  15.0  288.5  2.0  0  0.00  89.  1007.  10 NAD-SFC NoSubs
11  3 16  75  5  -10.2  0.186 -9.000 -9.000 -999.  192.     56.4  0.0780  0.32  1.00  2.60  288.0  15.0  288.4  2.0  0  0.00  90.  1007.  10 NAD-SFC NoSubs
11  3 16  75  6  -14.4  0.262 -9.000 -9.000 -999.  322.    112.4  0.1620  0.32  1.00  3.10  301.0  15.0  288.2  2.0  0  0.00  92.  1007.  10 NAD-SFC NoSubs
11  3 16  75  7  -17.1  0.261 -9.000 -9.000 -999.  321.     93.6  0.1620  0.32  0.56  3.10  307.0  15.0  288.1  2.0  0  0.00  93.  1007.   7 NAD-SFC NoSubs
11  3 16  75  8   14.1  0.291  0.413  0.005  180.  377.   -157.8  0.1620  0.32  0.27  3.10  310.0  15.0  288.2  2.0  0  0.00  92.  1008.   8 NAD-SFC NoSubs
11  3 16  75  9   11.6  0.415  0.432  0.006  249.  642.   -553.2  0.1620  0.32  0.18  4.60  311.0  15.0  289.2  2.0  0  0.25  83.  1008.  10 NAD-SFC NoSubs
11  3 16  75 10   18.5  0.513  0.551  0.006  325.  880.   -656.1  0.1620  0.32  0.15  5.70  322.0  15.0  289.8  2.0  0  0.00  71.  1009.  10 NAD-SFC NoSubs
11  3 16  75 11   23.3  0.576  0.638  0.006  401. 1047.   -737.5  0.1880  0.32  0.15  6.20  333.0  15.0  290.1  2.0  0  0.00  62.  1009.  10 NAD-SFC NoSubs
11  3 16  75 12  103.5  0.641  1.228  0.007  645. 1231.   -229.4  0.1880  0.32  0.14  6.70  340.0  15.0  290.5  2.0  0  0.00  56.  1009.   5 NAD-SFC NoSubs
11  3 16  75 13  107.9  0.642  1.309  0.007  748. 1235.   -220.9  0.1880  0.32  0.14  6.70  336.0  15.0  290.6  2.0  0  0.00  53.  1009.   4 NAD-SFC NoSubs
11  3 16  75 14  100.1  0.641  1.321  0.007  828. 1231.   -236.3  0.1880  0.32  0.15  6.70  337.0  15.0  290.6  2.0  0  0.00  52.  1009.   4 NAD-SFC NoSubs
11  3 16  75 15   83.7  0.637  1.274  0.007  890. 1220.   -277.6  0.1880  0.32  0.15  6.70  344.0  15.0  290.5  2.0  0  0.00  52.  1008.   4 NAD-SFC NoSubs
11  3 16  75 16   59.1  0.408  1.152  0.006  930.  680.   -103.6  0.1880  0.32  0.17  4.10  336.0  15.0  290.1  2.0  0  0.00  58.  1008.   4 NAD-SFC NoSubs
11  3 16  75 17   27.5  0.342  0.899  0.006  948.  484.   -130.1  0.1620  0.32  0.24  3.60  328.0  15.0  289.6  2.0  0  0.00  62.  1008.   3 NAD-SFC NoSubs
11  3 16  75 18  -15.2  0.319 -9.000 -9.000 -999.  433.    191.5  0.1880  0.32  0.46  3.60  331.0  15.0  288.8  2.0  0  0.00  64.  1009.   3 NAD-SFC NoSubs
11  3 16  75 19  -33.1  0.314 -9.000 -9.000 -999.  422.     84.0  0.1880  0.32  1.00  3.60  336.0  15.0  287.8  2.0  0  0.00  66.  1009.   3 NAD-SFC NoSubs
11  3 16  75 20  -28.3  0.268 -9.000 -9.000 -999.  334.     61.2  0.1880  0.32  1.00  3.10  346.0  15.0  287.1  2.0  0  0.00  66.  1009.   3 NAD-SFC NoSubs
11  3 16  75 21  -28.4  0.268 -9.000 -9.000 -999.  333.     61.1  0.1880  0.32  1.00  3.10  338.0  15.0  286.5  2.0  0  0.00  65.  1009.   3 NAD-SFC NoSubs
11  3 16  75 22  -21.2  0.222 -9.000 -9.000 -999.  252.     46.7  0.1880  0.32  1.00  2.60  341.0  15.0  286.1  2.0  0  0.00  65.  1010.   3 NAD-SFC NoSubs
11  3 16  75 23   -6.5  0.120 -9.000 -9.000 -999.  105.     24.3  0.1620  0.32  1.00  1.50  326.0  15.0  285.8  2.0  0  0.00  65.  1010.   3 NAD-SFC NoSubs
11  3 16  75 24   -6.5  0.120 -9.000 -9.000 -999.  100.     24.3  0.1620  0.32  1.00  1.50  316.0  15.0  285.2  2.0  0  0.00  66.  1010.   3 NAD-SFC NoSubs
11  3 17  76  1  -12.8  0.170 -9.000 -9.000 -999.  168.     34.4  0.1620  0.32  1.00  2.10  317.0  15.0  284.8  2.0  0  0.00  68.  1010.   3 NAD-SFC NoSubs
11  3 17  76  2  -21.2  0.222 -9.000 -9.000 -999.  251.     46.5  0.1880  0.32  1.00  2.60  330.0  15.0  283.9  2.0  0  0.00  73.  1010.   3 NAD-SFC NoSubs
11  3 17  76  3  -20.0  0.214 -9.000 -9.000 -999.  237.     44.0  0.1620  0.32  1.00  2.60  327.0  15.0  283.1  2.0  0  0.00  77.  1010.   3 NAD-SFC NoSubs
11  3 17  76  4  -20.1  0.214 -9.000 -9.000 -999.  237.     44.0  0.1620  0.32  1.00  2.60  324.0  15.0  282.4  2.0  0  0.00  80.  1011.   3 NAD-SFC NoSubs
11  3 17  76  5  -20.1  0.214 -9.000 -9.000 -999.  237.     43.9  0.1620  0.32  1.00  2.60  322.0  15.0  281.9  2.0  0  0.00  81.  1011.   3 NAD-SFC NoSubs
11  3 17  76  6  -12.9  0.170 -9.000 -9.000 -999.  168.     34.2  0.1620  0.32  1.00  2.10  307.0  15.0  281.4  2.0  0  0.00  82.  1012.   3 NAD-SFC NoSubs
11  3 17  76  7   -9.1  0.145 -9.000 -9.000 -999.  133.     30.3  0.0780  0.32  0.55  2.10  286.0  15.0  281.0  2.0  0  0.00  83.  1012.   3 NAD-SFC NoSubs
11  3 17  76  8   19.5  0.263  0.451  0.006  170.  323.    -83.8  0.1880  0.32  0.26  2.60  339.0  15.0  282.1  2.0  0  0.00  68.  1013.   3 NAD-SFC NoSubs
11  3 17  76  9   52.6  0.139  0.736  0.006  273.  134.     -4.7  0.1620  0.32  0.18  1.00  329.0  15.0  283.6  2.0  0  0.00  56.  1013.   3 NAD-SFC NoSubs
11  3 17  76 10   79.2 -9.000 -9.000 -9.000  366. -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0  285.1  2.0  0  0.00  48.  1013.   2 NAD-SFC NoSubs
11  3 17  76 11   98.3  0.085  1.119  0.005  514.   60.     -1.0  0.0780  0.32  0.15  0.50  294.0  15.0  286.6  2.0  0  0.00  44.  1012.   2 NAD-SFC NoSubs
11  3 17  76 12  108.6  0.087  1.255  0.005  657.   61.     -1.0  0.0780  0.32  0.14  0.50  286.0  15.0  288.0  2.0  0  0.00  39.  1011.   2 NAD-SFC NoSubs
11  3 17  76 13  109.7  0.132  1.350  0.005  809.  116.     -1.9  0.0780  0.32  0.14  1.00  288.0  15.0  289.0  2.0  0  0.00  36.  1010.   2 NAD-SFC NoSubs
11  3 17  76 14  101.8  0.151  1.379  0.005  929.  141.     -3.0  0.1620  0.32  0.15  1.00  305.0  15.0  289.8  2.0  0  0.00  33.  1009.   2 NAD-SFC NoSubs
11  3 17  76 15   84.9  0.193  1.344  0.005 1031.  203.     -7.6  0.1620  0.32  0.15  1.50  301.0  15.0  290.2  2.0  0  0.00  30.  1009.   2 NAD-SFC NoSubs
11  3 17  76 16   59.6  0.191  1.223  0.005 1105.  200.    -10.5  0.1880  0.32  0.17  1.50  332.0  15.0  290.4  2.0  0  0.00  28.  1008.   2 NAD-SFC NoSubs
11  3 17  76 17   27.4 -9.000 -9.000 -9.000 1136. -999. -99999.0  0.0879  0.32  0.24  0.00    0.0  15.0  290.1  2.0  0  0.00  33.  1008.   2 NAD-SFC NoSubs
11  3 17  76 18  -11.5  0.228 -9.000 -9.000 -999.  261.     92.4  0.1900  0.32  0.45  2.60   18.0  15.0  289.4  2.0  0  0.00  36.  1008.   2 NAD-SFC NoSubs
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11  3 17  76 19  -13.7  0.177 -9.000 -9.000 -999.  179.     36.1  0.1900  0.32  1.00  2.10   28.0  15.0  288.1  2.0   0  0.00  40.  1008.   2 NAD-SFC NoSubs
11  3 17  76 20   -1.2  0.073 -9.000 -9.000 -999.   54.     29.0  0.0780  0.32  1.00  0.50  280.0  15.0  286.8  2.0   0  0.00  45.  1009.   2 NAD-SFC NoSubs
11  3 17  76 21  -27.2  0.249 -9.000 -9.000 -999.  298.     50.9  0.0310  0.32  1.00  4.10  257.0  15.0  284.9  2.0   0  0.00  57.  1010.   2 NAD-SFC NoSubs
11  3 17  76 22  -36.6  0.332 -9.000 -9.000 -999.  459.     90.2  0.0780  0.32  1.00  4.60  271.0  15.0  283.0  2.0   0  0.00  79.  1010.   2 NAD-SFC NoSubs
11  3 17  76 23  -32.5  0.295 -9.000 -9.000 -999.  384.     70.8  0.0780  0.32  1.00  4.10  278.0  15.0  282.2  2.0   0  0.00  86.  1011.   2 NAD-SFC NoSubs
11  3 17  76 24  -22.6  0.219 -9.000 -9.000 -999.  248.     41.9  0.0780  0.32  1.00  3.10  288.0  15.0  281.6  2.0   0  0.00  88.  1011.   2 NAD-SFC NoSubs
11  3 18  77  1  -13.0  0.169 -9.000 -9.000 -999.  168.     33.7  0.1620  0.32  1.00  2.10  317.0  15.0  281.2  2.0   0  0.00  89.  1012.   2 NAD-SFC NoSubs
11  3 18  77  2   -3.5  0.095 -9.000 -9.000 -999.   72.     22.0  0.1900  0.32  1.00  1.00   12.0  15.0  280.8  2.0   0  0.00  91.  1012.   3 NAD-SFC NoSubs
11  3 18  77  3   -1.2  0.073 -9.000 -9.000 -999.   47.     28.9  0.0760  0.32  1.00  0.50   85.0  15.0  280.4  2.0   0  0.00  92.  1012.   3 NAD-SFC NoSubs
11  3 18  77  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  280.1  2.0   0  0.00  91.  1012.   3 NAD-SFC NoSubs
11  3 18  77  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  279.8  2.0   0  0.00  92.  1012.   3 NAD-SFC NoSubs
11  3 18  77  6   -1.0  0.068 -9.000 -9.000 -999.   43.     27.1  0.0330  0.32  1.00  0.50  204.0  15.0  279.2  2.0   0  0.00  94.  1012.   2 NAD-SFC NoSubs
11  3 18  77  7   -0.9  0.063 -9.000 -9.000 -999.   38.     25.5  0.0380  0.32  0.54  0.50  163.0  15.0  278.6  2.0   0  0.00  96.  1012.   2 NAD-SFC NoSubs
11  3 18  77  8   19.3 -9.000 -9.000 -9.000  138. -999. -99999.0  0.0879  0.32  0.26  0.00    0.0  15.0  280.2  2.0   0  0.00  84.  1012.   2 NAD-SFC NoSubs
11  3 18  77  9   52.8 -9.000 -9.000 -9.000  310. -999. -99999.0  0.0879  0.32  0.18  0.00    0.0  15.0  282.4  2.0   0  0.00  72.  1012.   2 NAD-SFC NoSubs
11  3 18  77 10   79.9 -9.000 -9.000 -9.000  450. -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0  284.0  2.0   0  0.00  66.  1012.   2 NAD-SFC NoSubs
11  3 18  77 11   98.9 -9.000 -9.000 -9.000  567. -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0  285.6  2.0   0  0.00  58.  1011.   2 NAD-SFC NoSubs
11  3 18  77 12  109.1 -9.000 -9.000 -9.000  676. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  286.8  2.0   0  0.00  51.  1010.   2 NAD-SFC NoSubs
11  3 18  77 13  110.2 -9.000 -9.000 -9.000  781. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  287.9  2.0   0  0.00  47.  1009.   3 NAD-SFC NoSubs
11  3 18  77 14  102.3  0.103  1.352  0.006  868.  79.     -1.0  0.1900  0.32  0.15  0.50   11.0  15.0  288.8  2.0   0  0.00  45.  1008.   3 NAD-SFC NoSubs
11  3 18  77 15   84.6  0.152  1.300  0.006  934.  143.    -3.8  0.1880  0.32  0.15  1.00  355.0  15.0  289.2  2.0   0  0.00  44.  1008.   4 NAD-SFC NoSubs
11  3 18  77 16   60.1  0.205  1.179  0.006  979.  223.   -12.9  0.0780  0.32  0.17  2.10  294.0  15.0  289.5  2.0   0  0.00  45.  1007.   4 NAD-SFC NoSubs
11  3 18  77 17   28.8  0.228  0.929  0.007  998.  261.   -36.9  0.0780  0.32  0.23  2.60  280.0  15.0  289.0  2.0   0  0.00  55.  1007.   4 NAD-SFC NoSubs
11  3 18  77 18   -4.4  0.127 -9.000 -9.000 -999.  113.    41.5  0.0310  0.32  0.45  2.10  257.0  15.0  288.2  2.0   0  0.00  60.  1007.   4 NAD-SFC NoSubs
11  3 18  77 19   -7.4  0.122 -9.000 -9.000 -999.  102.    21.8  0.0310  0.32  1.00  2.10  243.0  15.0  287.4  2.0   0  0.00  64.  1007.   4 NAD-SFC NoSubs
11  3 18  77 20  -11.9  0.155 -9.000 -9.000 -999.  147.    28.4  0.0340  0.32  1.00  2.60  227.0  15.0  286.4  2.0   0  0.00  69.  1007.   4 NAD-SFC NoSubs
11  3 18  77 21  -17.0  0.187 -9.000 -9.000 -999.  194.    34.5  0.0330  0.32  1.00  3.10  209.0  15.0  285.4  2.0   0  0.00  74.  1007.   4 NAD-SFC NoSubs
11  3 18  77 22  -17.3  0.187 -9.000 -9.000 -999.  194.    33.7  0.0330  0.32  1.00  3.10  202.0  15.0  284.5  2.0   0  0.00  78.  1007.   3 NAD-SFC NoSubs
11  3 18  77 23  -17.5  0.188 -9.000 -9.000 -999.  195.    33.9  0.0340  0.32  1.00  3.10  214.0  15.0  283.8  2.0   0  0.00  81.  1007.   3 NAD-SFC NoSubs
11  3 18  77 24  -12.0  0.154 -9.000 -9.000 -999.  146.    27.4  0.0330  0.32  1.00  2.60  208.0  15.0  283.1  2.0   0  0.00  83.  1007.   3 NAD-SFC NoSubs
11  3 19  78  1   -4.1  0.092 -9.000 -9.000 -999.   68.    16.7  0.0340  0.32  1.00  1.50  215.0  15.0  282.8  2.0   0  0.00  85.  1007.   3 NAD-SFC NoSubs
11  3 19  78  2   -1.0  0.068 -9.000 -9.000 -999.   42.    27.1  0.0380  0.32  1.00  0.50  152.0  15.0  282.4  2.0   0  0.00  86.  1007.   3 NAD-SFC NoSubs
11  3 19  78  3   -2.7  0.084 -9.000 -9.000 -999.   58.    19.3  0.0760  0.32  1.00  1.00   87.0  15.0  282.2  2.0   0  0.00  86.  1007.   3 NAD-SFC NoSubs
11  3 19  78  4   -1.1  0.070 -9.000 -9.000 -999.   44.    27.8  0.0510  0.32  1.00  0.50   93.0  15.0  282.4  2.0   0  0.00  85.  1007.   3 NAD-SFC NoSubs
11  3 19  78  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  282.8  2.0   0  0.00  82.  1007.   3 NAD-SFC NoSubs
11  3 19  78  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  282.9  2.0   0  0.00  81.  1007.   4 NAD-SFC NoSubs
11  3 19  78  7   -0.7  0.058 -9.000 -9.000 -999.   34.    24.0  0.0380  0.32  0.52  0.50  172.0  15.0  282.9  2.0   0  0.00  80.  1007.   4 NAD-SFC NoSubs
11  3 19  78  8   21.8  0.136  0.419  0.005  121.  121.    -10.4  0.0510  0.32  0.26  1.50  115.0  15.0  283.1  2.0   0  0.00  79.  1007.   4 NAD-SFC NoSubs
11  3 19  78  9   54.2  0.142  0.810  0.005  351.  128.     -4.7  0.0380  0.32  0.18  1.50  157.0  15.0  284.6  2.0   0  0.00  68.  1006.   4 NAD-SFC NoSubs
11  3 19  78 10   80.4  0.193  1.100  0.005  595.  204.     -8.0  0.0460  0.32  0.15  2.10  132.0  15.0  285.4  2.0   0  0.00  61.  1006.   4 NAD-SFC NoSubs
11  3 19  78 11   89.5  0.330  1.284  0.005  847.  455.    -35.9  0.0510  0.32  0.15  4.10  112.0  15.0  285.6  2.0   0  0.25  61.  1005.   6 NAD-SFC NoSubs
11  3 19  78 12   73.1  0.352  1.271  0.005 1006.  502.    -53.6  0.0460  0.32  0.14  4.60  129.0  15.0  285.5  2.0   0  0.51  64.  1004.   8 NAD-SFC NoSubs
11  3 19  78 13   88.7  0.377  1.408  0.005 1126.  555.    -54.0  0.0380  0.32  0.14  5.10  154.0  15.0  285.5  2.0   0  0.76  64.  1003.   7 NAD-SFC NoSubs
11  3 19  78 14   91.9  0.378  1.471  0.005 1239.  557.    -52.4  0.0380  0.32  0.14  5.10  160.0  15.0  285.9  2.0   0  0.51  63.  1003.   6 NAD-SFC NoSubs
11  3 19  78 15   82.1  0.344  1.451  0.005 1333.  486.    -44.4  0.0380  0.32  0.15  4.60  158.0  15.0  286.2  2.0   0  0.25  63.  1002.   5 NAD-SFC NoSubs
11  3 19  78 16   58.4  0.276  1.323  0.005 1417.  350.    -32.1  0.0380  0.32  0.17  3.60  153.0  15.0  286.2  2.0   0  0.25  67.  1001.   5 NAD-SFC NoSubs
11  3 19  78 17   28.4  0.273  1.051  0.005 1458.  342.    -63.7  0.0460  0.32  0.23  3.60  122.0  15.0  286.1  2.0   0  0.25  73.  1000.   5 NAD-SFC NoSubs
11  3 19  78 18   -9.8  0.351 -9.000 -9.000 -999.  498.   393.9  0.0510  0.32  0.44  5.10  111.0  15.0  285.6  2.0   0  0.25  77.  1000.   5 NAD-SFC NoSubs
11  3 19  78 19  -40.4  0.419 -9.000 -9.000 -999.  650.   161.8  0.0510  0.32  1.00  6.20  114.0  15.0  285.1  2.0   0  0.25  80.   999.   5 NAD-SFC NoSubs
11  3 19  78 20  -37.0  0.384 -9.000 -9.000 -999.  571.   135.9  0.0510  0.32  1.00  5.70  113.0  15.0  285.2  2.0   0  0.00  77.   999.   5 NAD-SFC NoSubs
11  3 19  78 21  -38.8  0.383 -9.000 -9.000 -999.  569.   129.0  0.0510  0.32  1.00  5.70  118.0  15.0  285.2  2.0   0  0.00  75.   998.   4 NAD-SFC NoSubs
11  3 19  78 22  -41.6  0.411 -9.000 -9.000 -999.  631.   148.2  0.0460  0.32  1.00  6.20  121.0  15.0  285.5  2.0   0  0.00  74.   998.   4 NAD-SFC NoSubs
11  3 19  78 23  -41.5  0.411 -9.000 -9.000 -999.  631.   148.2  0.0460  0.32  1.00  6.20  131.0  15.0  285.6  2.0   0  0.00  74.   997.   4 NAD-SFC NoSubs
11  3 19  78 24  -41.4  0.411 -9.000 -9.000 -999.  631.   148.2  0.0460  0.32  1.00  6.20  128.0  15.0  285.6  2.0   0  0.00  74.   995.   4 NAD-SFC NoSubs
11  3 20  79  1  -41.4  0.411 -9.000 -9.000 -999.  631.   148.3  0.0460  0.32  1.00  6.20  134.0  15.0  285.8  2.0   0  0.00  74.   995.   4 NAD-SFC NoSubs
11  3 20  79  2  -41.4  0.411 -9.000 -9.000 -999.  631.   148.3  0.0460  0.32  1.00  6.20  138.0  15.0  285.8  2.0   0  0.00  75.   994.   4 NAD-SFC NoSubs
11  3 20  79  3  -41.3  0.411 -9.000 -9.000 -999.  631.   148.3  0.0460  0.32  1.00  6.20  142.0  15.0  285.8  2.0   0  0.00  76.   993.   4 NAD-SFC NoSubs
11  3 20  79  4  -42.8  0.410 -9.000 -9.000 -999.  631.   142.6  0.0460  0.32  1.00  6.20  141.0  15.0  285.8  2.0   0  0.00  77.   992.   3 NAD-SFC NoSubs
11  3 20  79  5  -37.8  0.376 -9.000 -9.000 -999.  555.   124.5  0.0460  0.32  1.00  5.70  143.0  15.0  285.8  2.0   0  0.00  78.   992.   4 NAD-SFC NoSubs
11  3 20  79  6  -37.8  0.376 -9.000 -9.000 -999.  554.   124.5  0.0460  0.32  1.00  5.70  137.0  15.0  285.9  2.0   0  0.00  78.   992.   4 NAD-SFC NoSubs
11  3 20  79  7  -23.2  0.338 -9.000 -9.000 -999.  472.   146.8  0.0460  0.32  0.51  5.10  145.0  15.0  285.9  2.0   0  0.00  78.   992.   4 NAD-SFC NoSubs
11  3 20  79  8   23.1  0.367  0.382  0.005   85.  534.  -190.0  0.0460  0.32  0.25  5.10  142.0  15.0  286.2  2.0   0  0.00  77.   993.   4 NAD-SFC NoSubs
11  3 20  79  9   55.4  0.315  0.809  0.005  338.  427.   -50.1  0.0460  0.32  0.18  4.10  136.0  15.0  287.1  2.0   0  0.00  75.   993.   4 NAD-SFC NoSubs
11  3 20  79 10   81.7  0.291  1.108  0.005  590.  377.   -26.7  0.0460  0.32  0.15  3.60  144.0  15.0  288.6  2.0   0  0.00  70.   993.   4 NAD-SFC NoSubs
11  3 20  79 11  100.1  0.408  1.338  0.005  848.  625.   -60.0  0.0330  0.32  0.15  5.70  198.0  15.0  290.0  2.0   0  0.51  60.   993.   4 NAD-SFC NoSubs
11  3 20  79 12  109.7  0.563  1.485  0.005 1057. 1013.  -143.8  0.0330  0.32  0.14  8.20  206.0  15.0  290.4  2.0   0  0.51  57.   992.   4 NAD-SFC NoSubs
11  3 20  79 13  110.5  0.594  1.559  0.005 1215. 1097.  -167.7  0.0330  0.32  0.14  8.70  207.0  15.0  290.2  2.0   0  0.51  55.   992.   4 NAD-SFC NoSubs
11  3 20  79 14  102.5  0.533  1.573  0.005 1344.  939.  -130.8  0.0340  0.32  0.14  7.70  224.0  15.0  290.1  2.0   0  0.25  56.   992.   4 NAD-SFC NoSubs
11  3 20  79 15   85.9  0.407  1.512  0.005 1427.  637.   -69.4  0.0340  0.32  0.15  5.70  219.0  15.0  289.8  2.0   0  0.00  60.   992.   4 NAD-SFC NoSubs
11  3 20  79 16   61.2  0.333  1.369  0.005 1483.  466.   -53.5  0.0340  0.32  0.17  4.60  216.0  15.0  289.4  2.0   0  0.00  64.   992.   4 NAD-SFC NoSubs
11  3 20  79 17   29.8  0.260  1.083  0.005 1509.  321.   -52.0  0.0330  0.32  0.23  3.60  208.0  15.0  288.8  2.0   0  0.00  64.   992.   4 NAD-SFC NoSubs
11  3 20  79 18   -4.4  0.161 -9.000 -9.000 -999.  160.    84.5  0.0330  0.32  0.44  2.60  199.0  15.0  288.2  2.0   0  0.25  64.   992.   4 NAD-SFC NoSubs
11  3 20  79 19   -7.6  0.124 -9.000 -9.000 -999.  104.    21.8  0.0340  0.32  1.00  2.10  236.0  15.0  287.5  2.0   0  0.51  64.   993.   3 NAD-SFC NoSubs
11  3 20  79 20   -7.5  0.122 -9.000 -9.000 -999.  102.    21.3  0.0310  0.32  1.00  2.10  269.0  15.0  286.8  2.0   0  0.25  67.   993.   3 NAD-SFC NoSubs
11  3 20  79 21   -4.0  0.090 -9.000 -9.000 -999.   65.    16.5  0.0310  0.32  1.00  1.50  261.0  15.0  286.2  2.0   0  0.00  69.   993.   3 NAD-SFC NoSubs
11  3 20  79 22   -7.7  0.123 -9.000 -9.000 -999.  104.    21.8  0.0340  0.32  1.00  2.10  228.0  15.0  285.5  2.0   0  0.00  71.   994.   3 NAD-SFC NoSubs
11  3 20  79 23  -17.0  0.188 -9.000 -9.000 -999.  196.    34.7  0.0340  0.32  1.00  3.10  216.0  15.0  284.6  2.0   0  0.00  75.   994.   4 NAD-SFC NoSubs
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11	3	20	79	24	-22.4	0.221	-9.000	-9.000	-999.	249.	42.5	0.0340	0.32	1.00	3.60	233.0	15.0	283.9	2.0	0	0.25	77.	995.	4	NAD-SFC NoSubs
11	3	21	80	1	-18.2	0.218	-9.000	-9.000	-999.	245.	50.7	0.0310	0.32	1.00	3.60	253.0	15.0	283.4	2.0	0	1.02	79.	995.	7	NAD-SFC NoSubs
11	3	21	80	2	-20.8	0.375	-9.000	-9.000	-999.	551.	225.4	0.0780	0.32	1.00	5.10	278.0	15.0	282.9	2.0	0	1.78	86.	996.	10	NAD-SFC NoSubs
11	3	21	80	3	-21.1	0.220	-9.000	-9.000	-999.	265.	44.7	0.0780	0.32	1.00	3.10	277.0	15.0	282.5	2.0	0	1.02	87.	996.	5	NAD-SFC NoSubs
11	3	21	80	4	-4.3	0.095	-9.000	-9.000	-999.	85.	17.9	0.0460	0.32	1.00	1.50	139.0	15.0	282.6	2.0	0	0.00	84.	997.	4	NAD-SFC NoSubs
11	3	21	80	5	-17.6	0.199	-9.000	-9.000	-999.	213.	40.0	0.0460	0.32	1.00	3.10	127.0	15.0	282.5	2.0	0	0.25	82.	998.	6	NAD-SFC NoSubs
11	3	21	80	6	-21.3	0.233	-9.000	-9.000	-999.	271.	53.1	0.0460	0.32	1.00	3.60	146.0	15.0	282.2	2.0	0	0.76	80.	999.	6	NAD-SFC NoSubs
11	3	21	80	7	-12.1	0.195	-9.000	-9.000	-999.	207.	54.5	0.0380	0.32	0.50	3.10	159.0	15.0	282.2	2.0	0	1.02	81.	1000.	5	NAD-SFC NoSubs
11	3	21	80	8	23.3	0.224	0.563	0.005	272.	254.	-43.0	0.0310	0.32	0.25	3.10	246.0	15.0	283.2	2.0	0	0.51	70.	1001.	5	NAD-SFC NoSubs
11	3	21	80	9	54.4	0.379	0.902	0.005	482.	561.	-89.6	0.0780	0.32	0.17	4.60	290.0	15.0	284.8	2.0	0	0.76	58.	1002.	5	NAD-SFC NoSubs
11	3	21	80	10	79.5	0.352	1.137	0.005	661.	501.	-48.9	0.0780	0.32	0.15	4.10	294.0	15.0	285.8	2.0	0	1.02	51.	1002.	5	NAD-SFC NoSubs
11	3	21	80	11	100.2	0.329	1.363	0.005	903.	452.	-31.6	0.1620	0.32	0.15	3.10	306.0	15.0	286.5	2.0	0	0.76	47.	1002.	4	NAD-SFC NoSubs
11	3	21	80	12	109.8	0.290	1.548	0.005	1208.	376.	-19.9	0.1620	0.32	0.14	2.60	316.0	15.0	287.2	2.0	0	0.51	43.	1002.	4	NAD-SFC NoSubs
11	3	21	80	13	110.7	0.290	1.628	0.005	1395.	375.	-19.8	0.1620	0.32	0.14	2.60	304.0	15.0	287.6	2.0	0	0.25	42.	1002.	4	NAD-SFC NoSubs
11	3	21	80	14	102.7	0.252	1.620	0.005	1483.	304.	-13.9	0.0780	0.32	0.14	2.60	289.0	15.0	287.8	2.0	0	0.25	43.	1003.	4	NAD-SFC NoSubs
11	3	21	80	15	86.2	0.284	1.552	0.005	1554.	362.	-23.7	0.0780	0.32	0.15	3.10	276.0	15.0	288.1	2.0	0	0.00	41.	1003.	4	NAD-SFC NoSubs
11	3	21	80	16	61.9	0.382	1.404	0.005	1602.	566.	-80.3	0.0780	0.32	0.17	4.60	286.0	15.0	287.8	2.0	0	0.25	42.	1003.	3	NAD-SFC NoSubs
11	3	21	80	17	30.1	0.299	1.109	0.005	1623.	396.	-79.4	0.0780	0.32	0.23	3.60	278.0	15.0	287.1	2.0	0	0.51	53.	1004.	4	NAD-SFC NoSubs
11	3	21	80	18	-8.1	0.303	-9.000	-9.000	-999.	401.	308.1	0.0780	0.32	0.43	4.10	282.0	15.0	286.0	2.0	0	0.25	60.	1005.	4	NAD-SFC NoSubs
11	3	21	80	19	-39.3	0.383	-9.000	-9.000	-999.	569.	128.7	0.0310	0.32	1.00	6.20	266.0	15.0	284.4	2.0	0	0.00	68.	1006.	4	NAD-SFC NoSubs
11	3	21	80	20	-46.2	0.448	-9.000	-9.000	-999.	719.	174.6	0.0310	0.32	1.00	7.20	269.0	15.0	282.6	2.0	0	0.00	76.	1007.	4	NAD-SFC NoSubs
11	3	21	80	21	-43.0	0.416	-9.000	-9.000	-999.	644.	149.9	0.0780	0.32	1.00	5.70	275.0	15.0	281.8	2.0	0	0.00	79.	1007.	4	NAD-SFC NoSubs
11	3	21	80	22	-34.5	0.333	-9.000	-9.000	-999.	465.	95.7	0.0780	0.32	1.00	4.60	282.0	15.0	281.1	2.0	0	0.00	83.	1008.	4	NAD-SFC NoSubs
11	3	21	80	23	-25.5	0.258	-9.000	-9.000	-999.	317.	60.3	0.0780	0.32	1.00	3.60	281.0	15.0	280.8	2.0	0	0.00	84.	1009.	5	NAD-SFC NoSubs
11	3	21	80	24	-13.9	0.183	-9.000	-9.000	-999.	190.	39.7	0.0780	0.32	1.00	2.60	282.0	15.0	280.9	2.0	0	0.00	84.	1009.	7	NAD-SFC NoSubs
11	3	22	81	1	-1.4	0.062	-9.000	-9.000	-999.	52.	16.1	0.0310	0.32	1.00	1.00	242.0	15.0	281.0	2.0	0	0.00	83.	1009.	10	NAD-SFC NoSubs
11	3	22	81	2	-3.0	0.090	-9.000	-9.000	-999.	65.	21.9	0.0380	0.32	1.00	1.50	175.0	15.0	281.0	2.0	0	0.00	83.	1010.	10	NAD-SFC NoSubs
11	3	22	81	3	-3.0	0.090	-9.000	-9.000	-999.	65.	21.9	0.0380	0.32	1.00	1.50	163.0	15.0	280.9	2.0	0	0.00	84.	1010.	10	NAD-SFC NoSubs
11	3	22	81	4	-3.5	0.090	-9.000	-9.000	-999.	65.	18.9	0.0380	0.32	1.00	1.50	175.0	15.0	280.8	2.0	0	0.00	85.	1010.	8	NAD-SFC NoSubs
11	3	22	81	5	-2.0	0.072	-9.000	-9.000	-999.	46.	17.0	0.0380	0.32	1.00	1.00	179.0	15.0	280.8	2.0	0	0.00	86.	1010.	7	NAD-SFC NoSubs
11	3	22	81	6	-0.8	0.061	-9.000	-9.000	-999.	36.	24.7	0.0330	0.32	1.00	0.50	193.0	15.0	280.6	2.0	0	0.00	86.	1011.	7	NAD-SFC NoSubs
11	3	22	81	7	-0.5	0.048	-9.000	-9.000	-999.	26.	20.6	0.0330	0.32	0.49	0.50	196.0	15.0	280.4	2.0	0	0.00	87.	1011.	7	NAD-SFC NoSubs
11	3	22	81	8	22.7	0.096	0.547	0.005	260.	71.	-3.5	0.0340	0.32	0.25	1.00	236.0	15.0	280.9	2.0	0	0.00	82.	1011.	6	NAD-SFC NoSubs
11	3	22	81	9	56.5	0.070	0.867	0.005	415.	44.	-1.0	0.0380	0.32	0.17	0.50	175.0	15.0	282.2	2.0	0	0.00	73.	1010.	4	NAD-SFC NoSubs
11	3	22	81	10	83.4	0.073	1.164	0.005	681.	48.	-1.0	0.0380	0.32	0.15	0.50	156.0	15.0	283.8	2.0	0	0.00	64.	1010.	3	NAD-SFC NoSubs
11	3	22	81	11	100.7	0.075	1.341	0.005	863.	49.	-1.0	0.0380	0.32	0.14	0.50	151.0	15.0	284.8	2.0	0	0.00	56.	1010.	4	NAD-SFC NoSubs
11	3	22	81	12	111.8	-9.000	-9.000	-9.000	1020.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	286.0	2.0	0	0.00	48.	1009.	3	NAD-SFC NoSubs
11	3	22	81	13	112.7	-9.000	-9.000	-9.000	1142.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	287.0	2.0	0	0.00	42.	1008.	3	NAD-SFC NoSubs
11	3	22	81	14	104.6	-9.000	-9.000	-9.000	1244.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	287.8	2.0	0	0.00	39.	1007.	3	NAD-SFC NoSubs
11	3	22	81	15	87.7	-9.000	-9.000	-9.000	1325.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	288.4	2.0	0	0.00	38.	1006.	3	NAD-SFC NoSubs
11	3	22	81	16	62.6	0.073	1.340	0.005	1378.	47.	-1.0	0.0460	0.32	0.17	0.50	130.0	15.0	288.8	2.0	0	0.00	37.	1006.	3	NAD-SFC NoSubs
11	3	22	81	17	30.6	0.104	1.063	0.005	1404.	81.	-3.3	0.0460	0.32	0.23	1.00	148.0	15.0	288.8	2.0	0	0.00	37.	1005.	3	NAD-SFC NoSubs
11	3	22	81	18	-0.3	0.039	-9.000	-9.000	-999.	20.	17.5	0.0330	0.32	0.43	0.50	184.0	15.0	288.4	2.0	0	0.00	41.	1006.	3	NAD-SFC NoSubs
11	3	22	81	19	-3.9	0.090	-9.000	-9.000	-999.	65.	16.6	0.0310	0.32	1.00	1.50	248.0	15.0	287.6	2.0	0	0.00	46.	1006.	4	NAD-SFC NoSubs
11	3	22	81	20	-16.7	0.185	-9.000	-9.000	-999.	191.	34.1	0.0310	0.32	1.00	3.10	257.0	15.0	286.8	2.0	0	0.00	52.	1006.	4	NAD-SFC NoSubs
11	3	22	81	21	-7.4	0.122	-9.000	-9.000	-999.	103.	21.7	0.0310	0.32	1.00	2.10	243.0	15.0	285.6	2.0	0	0.00	59.	1006.	4	NAD-SFC NoSubs
11	3	22	81	22	-4.2	0.093	-9.000	-9.000	-999.	68.	17.1	0.0380	0.32	1.00	1.50	170.0	15.0	284.8	2.0	0	0.00	62.	1006.	3	NAD-SFC NoSubs
11	3	22	81	23	-8.4	0.130	-9.000	-9.000	-999.	113.	23.5	0.0460	0.32	1.00	2.10	139.0	15.0	284.2	2.0	0	0.00	64.	1006.	3	NAD-SFC NoSubs
11	3	22	81	24	-19.0	0.198	-9.000	-9.000	-999.	212.	36.8	0.0460	0.32	1.00	3.10	143.0	15.0	283.8	2.0	0	0.00	66.	1006.	3	NAD-SFC NoSubs
11	3	23	82	1	-12.9	0.164	-9.000	-9.000	-999.	160.	30.6	0.0460	0.32	1.00	2.60	141.0	15.0	283.2	2.0	0	0.00	69.	1005.	4	NAD-SFC NoSubs
11	3	23	82	2	-16.9	0.200	-9.000	-9.000	-999.	214.	42.3	0.0460	0.32	1.00	3.10	145.0	15.0	282.6	2.0	0	0.25	74.	1005.	7	NAD-SFC NoSubs
11	3	23	82	3	-19.8	0.234	-9.000	-9.000	-999.	271.	57.9	0.0460	0.32	1.00	3.60	136.0	15.0	282.2	2.0	0	0.51	76.	1005.	7	NAD-SFC NoSubs
11	3	23	82	4	-22.7	0.268	-9.000	-9.000	-999.	333.	76.0	0.0460	0.32	1.00	4.10	128.0	15.0	282.2	2.0	0	0.25	74.	1004.	7	NAD-SFC NoSubs
11	3	23	82	5	-22.7	0.268	-9.000	-9.000	-999.	333.	76.0	0.0460	0.32	1.00	4.10	126.0	15.0	282.2	2.0	0	0.25	71.	1004.	7	NAD-SFC NoSubs
11	3	23	82	6	-27.7	0.302	-9.000	-9.000	-999.	397.	88.6	0.0460	0.32	1.00	4.60	126.0	15.0	282.2	2.0	0	0.25	69.	1004.	6	NAD-SFC NoSubs
11	3	23	82	7	-14.6	0.306	-9.000	-9.000	-999.	405.	174.6	0.0460	0.32	0.48	4.60	130.0	15.0	282.4	2.0	0	0.00	69.	1004.	6	NAD-SFC NoSubs
11	3	23	82	8	21.3	0.301	0.421	0.005	125.	397.	-115.0	0.0460	0.32	0.24	4.10	142.0	15.0	283.1	2.0	0	0.00	70.	1004.	7	NAD-SFC NoSubs
11	3	23	82	9	56.1	0.348	0.774	0.005	295.	492.	-67.0	0.0460	0.32	0.17	4.60	144.0	15.0	285.0	2.0	0	0.00	64.	1004.	5	NAD-SFC NoSubs
11	3	23	82	10	81.3	0.344	1.019	0.005	466.	484.	-44.8	0.0380	0.32	0.15	4.60	153.0	15.0	287.8	2.0	0	0.00	56.	1003.	5	NAD-SFC NoSubs
11	3	23	82	11	98.9	0.310	1.209	0.005	639.	415.	-26.9	0.0330	0.32	0.14	4.10	185.0	15.0	289.4	2.0	0	0.00	51.	1002.	5	NAD-SFC NoSubs
11	3	23	82	12	111.7	0.282	1.349	0.005	786.	361.	-18.0	0.0330	0.32	0.14	3.60	190.0	15.0	290.1	2.0	0	0.00	47.	1001.	4	NAD-SFC NoSubs
11	3	23	82	13	114.0	0.315	1.428	0.005	911.	424.	-24.4	0.0340	0.32	0.14	4.10	218.0	15.0	290.6	2.0	0	0.76	43.	1000.	3	NAD-SFC NoSubs
11	3	23	82	14	105.8	0.503	1.456	0.005	1042.	856.	-107.2	0.0340	0.32	0.14	7.20	238.0	15.0	290.8	2.0	0	0.76	41.	1000.	3	NAD-SFC NoSubs
11	3	23	82	15	88.7	0.652	1.427	0.005	1169.	1263.	-278.8	0.0310	0.32	0.15	9.80	242.0	15.0	290.4	2.0	0	0.25	42.	999.	3	NAD-SFC NoSubs
11	3	23	82	16	63.3	0.626	1.304	0.005	1249.	1190.	-344.7	0.0340	0.32	0.17	9.30	237.0	15.0	289.5	2.0	0	0.00	45.	999.	3	NAD-SFC NoSubs
11	3	23	82	17	31.1	0.354	1.040	0.005	1285.	585.	-126.5	0.0340	0.32	0.23	5.10	237.0	15.0	288.6	2.0	0	0.00	56.	999.	3	NAD-SFC NoSubs
11	3	23	82	18	-5.8	0.324	-9.000	-9.000	-999.	446.	520.6	0.0310	0.32	0.42	5.10	245.0	15.0	287.0	2.0	0	0.00	61.	1000.	4	NAD-SFC NoSubs
11	3	23	82	19	-30.0	0.285	-9.000	-9.000	-999.	366.	69.0	0.0340	0.32	1.00	4.60	236.0	15.0	286.0	2.0	0	0.00	63.	1001.	3	NAD-SFC NoSubs
11	3	23	82	20	-22.4	0.221	-9.000	-9.000	-999.	250.	42.8	0.0340	0.32	1.00	3.60	232.0	15.0	285.4	2.0	0	0.00	66.	1002.	4	NAD-SFC NoSubs
11	3	23	82	21	-22.5	0.221	-9.000	-9.000	-999.	249.	42.7	0.0340	0.32	1.00	3.60	223.0	15.0	284.8	2.0	0	0.51	71.	1003.	4	NAD-SFC NoSubs
11	3	23	82	22	-25.9	0.253	-9.000	-9.000	-999.	305.	56.0	0.0340	0.32	1.00	4.10	228.0	15.0	284.1	2.0	0	0.51	78.	1003.	4	NAD-SFC NoSubs
11	3	23	82	23	-26.5	0.249	-9.000	-9.000	-999.	298.	52.1	0.0310	0.32	1.00	4.10	243.0	15.0	283.8	2.0	0	0.00	83.	1004.	3	NAD-SFC NoSubs
11	3	23	82	24	-23.1	0.217	-9.000	-9.000	-999.	243.	39.5	0.0310	0.32	1.00	3.60	245.0	15.0	283.5	2.0	0	0.00	84.	1004.	3	NAD-SFC NoSubs
11	3	24	83	1	-17.5	0.188	-9.000	-9.000	-999.	195.	33.9	0.0340	0.32	1.00	3.10	237.0	15.0	283.1	2.0	0	0.00	84.	1004.	3	NAD-SFC NoSubs
11	3	24	83	2	-7.8	0.123	-9.000	-9.000	-999.	105.	21.6	0.0340	0.32	1.00	2.10	227.0	15.0	282.6	2.0	0	0.00	84.	1004.	3	NAD-SFC NoSubs
11	3	24	83	3	-4.1	0.091	-9.000	-9.000	-999.	66.	16.6	0.0330	0.32	1.00	1.50	206.0	15.0	282.0	2.0	0	0.00	86.	1004.	3	NAD-SFC NoSubs
11	3	24	83	4	-2.3	0.077	-9.000	-9.000	-999.	51.	17.6	0.0380	0.32	1.00	1.00	155.0	15.0	281.6	2.0	0	0.00	87.	1004.	4	NAD-SFC NoSubs

11	3	24	83	5	-4.4	0.095	-9.000	-9.000	-999.	71.	17.9	0.0460	0.32	1.00	1.50	132.0	15.0	281.4	2.0	0	0.00	87.	1004.	4	NAD-SFC NoSubs
11	3	24	83	6	-13.0	0.164	-9.000	-9.000	-999.	159.	30.4	0.0460	0.32	1.00	2.60	138.0	15.0	281.4	2.0	0	0.00	86.	1004.	4	NAD-SFC NoSubs
11	3	24	83	7	-11.0	0.202	-9.000	-9.000	-999.	218.	67.0	0.0460	0.32	0.47	3.10	127.0	15.0	281.6	2.0	0	0.00	85.	1005.	4	NAD-SFC NoSubs
11	3	24	83	8	25.9	0.227	0.450	0.005	126.	260.	-40.7	0.0330	0.32	0.24	3.10	189.0	15.0	283.6	2.0	0	0.00	70.	1005.	3	NAD-SFC NoSubs
11	3	24	83	9	58.9	0.270	0.828	0.005	345.	337.	-29.9	0.0330	0.32	0.17	3.60	204.0	15.0	285.4	2.0	0	0.00	58.	1005.	3	NAD-SFC NoSubs
11	3	24	83	10	84.6	0.277	1.137	0.005	623.	349.	-22.5	0.0330	0.32	0.15	3.60	186.0	15.0	286.9	2.0	0	0.00	49.	1005.	4	NAD-SFC NoSubs
11	3	24	83	11	102.7	0.311	1.405	0.005	967.	416.	-26.2	0.0330	0.32	0.14	4.10	195.0	15.0	288.2	2.0	0	0.00	43.	1004.	4	NAD-SFC NoSubs
11	3	24	83	12	113.7	0.374	1.556	0.005	1187.	548.	-41.1	0.0330	0.32	0.14	5.10	193.0	15.0	289.1	2.0	0	0.00	40.	1003.	3	NAD-SFC NoSubs
11	3	24	83	13	113.0	0.374	1.631	0.005	1375.	548.	-41.3	0.0330	0.32	0.14	5.10	203.0	15.0	289.8	2.0	0	0.00	40.	1002.	4	NAD-SFC NoSubs
11	3	24	83	14	104.9	0.410	1.655	0.005	1545.	631.	-58.9	0.0340	0.32	0.14	5.70	217.0	15.0	289.8	2.0	0	0.00	43.	1001.	4	NAD-SFC NoSubs
11	3	24	83	15	88.1	0.438	1.604	0.005	1674.	695.	-85.0	0.0340	0.32	0.15	6.20	235.0	15.0	289.8	2.0	0	0.00	46.	1001.	4	NAD-SFC NoSubs
11	3	24	83	16	63.4	0.334	1.462	0.005	1760.	470.	-52.3	0.0340	0.32	0.17	4.60	232.0	15.0	289.4	2.0	0	0.00	57.	1001.	4	NAD-SFC NoSubs
11	3	24	83	17	31.4	0.292	1.162	0.005	1784.	380.	-71.0	0.0340	0.32	0.22	4.10	226.0	15.0	288.8	2.0	0	0.00	62.	1000.	5	NAD-SFC NoSubs
11	3	24	83	18	-1.6	0.266	-9.000	-9.000	-999.	329.	1038.5	0.0330	0.32	0.42	4.10	202.0	15.0	287.9	2.0	0	0.00	64.	1001.	5	NAD-SFC NoSubs
11	3	24	83	19	-28.7	0.284	-9.000	-9.000	-999.	363.	71.2	0.0330	0.32	1.00	4.60	195.0	15.0	286.6	2.0	0	0.00	70.	1001.	4	NAD-SFC NoSubs
11	3	24	83	20	-28.8	0.284	-9.000	-9.000	-999.	363.	70.9	0.0330	0.32	1.00	4.60	194.0	15.0	285.6	2.0	0	0.00	76.	1001.	4	NAD-SFC NoSubs
11	3	24	83	21	-25.6	0.252	-9.000	-9.000	-999.	304.	55.7	0.0330	0.32	1.00	4.10	186.0	15.0	285.2	2.0	0	0.00	79.	1001.	4	NAD-SFC NoSubs
11	3	24	83	22	-16.9	0.187	-9.000	-9.000	-999.	195.	34.5	0.0330	0.32	1.00	3.10	194.0	15.0	285.1	2.0	0	0.00	79.	1002.	4	NAD-SFC NoSubs
11	3	24	83	23	-2.2	0.075	-9.000	-9.000	-999.	59.	17.3	0.0340	0.32	1.00	1.00	212.0	15.0	285.1	2.0	0	0.00	79.	1003.	4	NAD-SFC NoSubs
11	3	24	83	24	-5.0	0.104	-9.000	-9.000	-999.	80.	20.2	0.0780	0.32	1.00	1.50	288.0	15.0	284.8	2.0	0	0.25	84.	1003.	4	NAD-SFC NoSubs
11	3	25	84	1	-15.1	0.182	-9.000	-9.000	-999.	186.	35.6	0.0780	0.32	1.00	2.60	296.0	15.0	284.2	2.0	0	0.00	88.	1004.	4	NAD-SFC NoSubs
11	3	25	84	2	-19.5	0.214	-9.000	-9.000	-999.	238.	45.0	0.1620	0.32	1.00	2.60	319.0	15.0	283.6	2.0	0	0.00	90.	1004.	4	NAD-SFC NoSubs
11	3	25	84	3	-3.4	0.094	-9.000	-9.000	-999.	79.	21.9	0.1880	0.32	1.00	1.00	332.0	15.0	283.0	2.0	0	0.00	91.	1005.	4	NAD-SFC NoSubs
11	3	25	84	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	282.4	2.0	0	0.00	92.	1005.	4	NAD-SFC NoSubs
11	3	25	84	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	282.0	2.0	0	0.00	92.	1006.	4	NAD-SFC NoSubs
11	3	25	84	6	-1.0	0.066	-9.000	-9.000	-999.	40.	26.3	0.0310	0.32	1.00	0.50	246.0	15.0	281.8	2.0	0	0.00	92.	1006.	4	NAD-SFC NoSubs
11	3	25	84	7	-0.5	0.049	-9.000	-9.000	-999.	26.	20.7	0.0340	0.32	0.46	0.50	219.0	15.0	281.4	2.0	0	0.00	93.	1007.	4	NAD-SFC NoSubs
11	3	25	84	8	27.0	0.096	0.542	0.005	211.	72.	-3.0	0.0310	0.32	0.24	1.00	268.0	15.0	283.2	2.0	0	0.00	79.	1007.	4	NAD-SFC NoSubs
11	3	25	84	9	59.3	0.123	0.865	0.005	392.	104.	-2.8	0.0780	0.32	0.17	1.00	280.0	15.0	284.9	2.0	0	0.00	68.	1007.	4	NAD-SFC NoSubs
11	3	25	84	10	82.6	0.083	1.095	0.005	571.	58.	-1.0	0.0780	0.32	0.15	0.50	285.0	15.0	286.2	2.0	0	0.00	58.	1007.	5	NAD-SFC NoSubs
11	3	25	84	11	99.9	0.086	1.300	0.005	790.	60.	-1.0	0.0780	0.32	0.14	0.50	282.0	15.0	287.4	2.0	0	0.00	50.	1006.	5	NAD-SFC NoSubs
11	3	25	84	12	112.8	-9.000	-9.000	-9.000	1015.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	288.4	2.0	0	0.00	46.	1006.	4	NAD-SFC NoSubs
11	3	25	84	13	113.5	0.087	1.545	0.005	1166.	62.	-1.0	0.0780	0.32	0.14	0.50	275.0	15.0	289.1	2.0	0	0.00	43.	1005.	4	NAD-SFC NoSubs
11	3	25	84	14	106.8	0.073	1.567	0.005	1293.	47.	-1.0	0.0310	0.32	0.14	0.50	266.0	15.0	289.8	2.0	0	0.00	41.	1004.	3	NAD-SFC NoSubs
11	3	25	84	15	89.8	0.085	1.517	0.005	1392.	59.	-1.0	0.0780	0.32	0.15	0.50	274.0	15.0	290.1	2.0	0	0.00	39.	1003.	3	NAD-SFC NoSubs
11	3	25	84	16	64.5	0.081	1.380	0.005	1459.	55.	-1.0	0.0780	0.32	0.17	0.50	285.0	15.0	290.2	2.0	0	0.00	39.	1003.	3	NAD-SFC NoSubs
11	3	25	84	17	32.5	0.115	1.107	0.005	1493.	94.	-4.2	0.0780	0.32	0.22	1.00	293.0	15.0	290.2	2.0	0	0.00	39.	1002.	3	NAD-SFC NoSubs
11	3	25	84	18	-0.2	0.036	-9.000	-9.000	-999.	21.	19.0	0.0780	0.32	0.41	0.50	287.0	15.0	289.8	2.0	0	0.00	43.	1003.	3	NAD-SFC NoSubs
11	3	25	84	19	-2.7	0.083	-9.000	-9.000	-999.	58.	19.3	0.0780	0.32	1.00	1.00	275.0	15.0	288.8	2.0	0	0.00	48.	1003.	3	NAD-SFC NoSubs
11	3	25	84	20	-37.6	0.370	-9.000	-9.000	-999.	541.	121.1	0.0780	0.32	1.00	5.10	272.0	15.0	286.8	2.0	0	0.00	61.	1004.	4	NAD-SFC NoSubs
11	3	25	84	21	-30.1	0.295	-9.000	-9.000	-999.	388.	76.2	0.0780	0.32	1.00	4.10	279.0	15.0	284.5	2.0	0	0.00	79.	1004.	4	NAD-SFC NoSubs
11	3	25	84	22	-15.1	0.182	-9.000	-9.000	-999.	193.	35.6	0.0780	0.32	1.00	2.60	282.0	15.0	283.8	2.0	0	0.00	82.	1005.	4	NAD-SFC NoSubs
11	3	25	84	23	-9.5	0.144	-9.000	-9.000	-999.	132.	28.5	0.0780	0.32	1.00	2.10	284.0	15.0	283.5	2.0	0	0.00	81.	1005.	5	NAD-SFC NoSubs
11	3	25	84	24	-2.1	0.081	-9.000	-9.000	-999.	56.	22.8	0.1620	0.32	1.00	1.00	307.0	15.0	283.2	2.0	0	0.00	81.	1005.	10	NAD-SFC NoSubs
11	3	26	85	1	-1.9	0.077	-9.000	-9.000	-999.	52.	21.5	0.1280	0.32	1.00	1.00	58.0	15.0	283.2	2.0	0	0.00	82.	1005.	10	NAD-SFC NoSubs
11	3	26	85	2	-6.5	0.136	-9.000	-9.000	-999.	120.	35.0	0.0510	0.32	1.00	2.10	93.0	15.0	283.1	2.0	0	0.00	83.	1005.	10	NAD-SFC NoSubs
11	3	26	85	3	-9.6	0.171	-9.000	-9.000	-999.	170.	46.9	0.0510	0.32	1.00	2.60	110.0	15.0	283.1	2.0	0	0.00	85.	1005.	10	NAD-SFC NoSubs
11	3	26	85	4	-9.5	0.171	-9.000	-9.000	-999.	170.	46.9	0.0510	0.32	1.00	2.60	116.0	15.0	283.0	2.0	0	0.00	87.	1004.	10	NAD-SFC NoSubs
11	3	26	85	5	-11.3	0.202	-9.000	-9.000	-999.	218.	65.3	0.0460	0.32	1.00	3.10	128.0	15.0	282.8	2.0	0	0.25	90.	1004.	10	NAD-SFC NoSubs
11	3	26	85	6	-13.2	0.236	-9.000	-9.000	-999.	275.	89.2	0.0460	0.32	1.00	3.60	127.0	15.0	282.6	2.0	0	0.25	92.	1005.	10	NAD-SFC NoSubs
11	3	26	85	7	-12.5	0.307	-9.000	-9.000	-999.	407.	206.2	0.0460	0.32	0.45	4.60	134.0	15.0	282.6	2.0	0	0.25	91.	1005.	10	NAD-SFC NoSubs
11	3	26	85	8	4.6	0.256	0.218	0.005	81.	311.	-325.6	0.0460	0.32	0.23	3.60	149.0	15.0	283.2	2.0	0	0.25	84.	1005.	10	NAD-SFC NoSubs
11	3	26	85	9	13.0	0.162	0.443	0.005	239.	160.	-29.3	0.0380	0.32	0.17	2.10	174.0	15.0	284.2	2.0	0	0.25	76.	1005.	10	NAD-SFC NoSubs
11	3	26	85	10	19.8	0.060	0.573	0.005	339.	43.	-1.0	0.0330	0.32	0.15	0.50	208.0	15.0	285.6	2.0	0	0.00	69.	1005.	10	NAD-SFC NoSubs
11	3	26	85	11	24.6	-9.000	-9.000	-9.000	428.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	286.6	2.0	0	0.00	64.	1004.	10	NAD-SFC NoSubs
11	3	26	85	12	27.1	-9.000	-9.000	-9.000	505.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	287.4	2.0	0	0.00	61.	1004.	10	NAD-SFC NoSubs
11	3	26	85	13	27.3	-9.000	-9.000	-9.000	572.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	287.9	2.0	0	0.00	59.	1003.	10	NAD-SFC NoSubs
11	3	26	85	14	25.3	-9.000	-9.000	-9.000	628.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	288.2	2.0	0	0.00	58.	1002.	10	NAD-SFC NoSubs
11	3	26	85	15	72.7	0.098	1.166	0.005	779.	74.	-1.2	0.1880	0.32	0.15	0.50	345.0	15.0	288.8	2.0	0	0.00	57.	1002.	7	NAD-SFC NoSubs
11	3	26	85	16	14.6	0.155	0.691	0.005	806.	146.	-22.7	0.1280	0.32	0.17	1.50	32.0	15.0	288.6	2.0	0	0.00	55.	1002.	10	NAD-SFC NoSubs
11	3	26	85	17	27.5	0.249	0.871	0.005	856.	298.	-49.9	0.1280	0.32	0.22	2.60	32.0	15.0	288.4	2.0	0	0.00	59.	1001.	7	NAD-SFC NoSubs
11	3	26	85	18	0.3	0.219	0.192	0.005	855.	246.	-3188.6	0.1280	0.32	0.41	2.60	32.0	15.0	287.9	2.0	0	0.00	63.	1002.	8	NAD-SFC NoSubs
11	3	26	85	19	-10.0	0.181	-9.000	-9.000	-999.	186.	53.6	0.1900	0.32	1.00	2.10	18.0	15.0	287.5	2.0	0	0.00	65.	1003.	10	NAD-SFC NoSubs
11	3	26	85	20	-5.0	0.126	-9.000	-9.000	-999.	108.	35.9	0.1880	0.32	1.00	1.50	351.0	15.0	287.2	2.0	0	0.00	66.	1003.	10	NAD-SFC NoSubs
11	3	26	85	21	-4.7	0.121	-9.000	-9.000	-999.	101.	34.1	0.1620	0.32	1.00	1.50	319.0	15.0	286.9	2.0	0	0.00	68.	1004.	10	NAD-SFC NoSubs
11	3	26	85	22	-2.1	0.081	-9.000	-9.000	-999.	56.	22.9	0.1620	0.32	1.00	1.00	312.0	15.0	286.6	2.0	0	0.00	71.	1004.	10	NAD-SFC NoSubs
11	3	26	85	23	-1.2	0.072	-9.000	-9.000	-999.	46.	28.7	0.1880	0.32	1.00	0.50	337.0	15.0	286.2	2.0	0	0.00	75.	1004.	7	NAD-SFC NoSubs
11	3	26	85	24	-2.7	0.087	-9.000	-9.000	-999.	61.	21.3	0.1620	0.32	1.00	1.00	327.0	15.0	285.6	2.0	0	0.00	80.	1004.	7	NAD-SFC NoSubs
11	3	27	86	1	-0.8	0.060	-9.000	-9.000	-999.	35.	25.1	0.1620	0.32	1.00	0.50	328.0	15.0	285.1	2.0	0	0.25	85.	1004.	10	NAD-SFC NoSubs
11	3	27	86	2	-0.6	0.051	-9.000	-9.000	-999.	28.	21.7	0.0380	0.32	1.00	0.50	175.0	15.0	284.8	2.0	0	0.25	89.	1004.	10	NAD-SFC NoSubs
11	3	27	86	3	-1.8	0.069	-9.000	-9.000	-999.	44.	16.7	0.0380	0.32	1.00	1.00	164.0	15.0	284.6	2.0	0	0.25	92.	1004.	8	NAD-SFC NoSubs
11	3	27	86	4	-3.8	0.091	-9.000	-9.000	-999.	66.	17.8	0.0380	0.32	1.00	1.50	158.0	15.0	284.5	2.0	0	0.25	93.	1003.	6	NAD-SFC NoSubs
11	3	27	86	5	-2.1	0.073	-9.000	-9.000	-999.	48.	17.2	0.0380	0.32	1.00	1.00	161.0	15.0	284.5	2.0	0	0.25	93.	1003.	6	NAD-SFC NoSubs
11	3	27	86	6	-2.0	0.072	-9.000	-9.000	-999.	47.	16.9	0.0330	0.32	1.00	1.00	200.0	15.0	284.4	2.0	0	0.00	94.	1004.	6	NAD-SFC NoSubs
11	3	27	86	7	-0.8	0.058	-9.000	-9.000	-999.	33.	20.8	0.0310	0.32	0.44	1.00	242.0	15.0	284.2	2.0	0	0.00	95.	1004.	6	NAD-SFC NoSubs
11	3	27	86	8	24.2	0.148	0.613	0.005	340.	137.	-12.0	0.0780	0.32	0.23	1.50	284.0	15.0	284.2	2.0	0	0.00	94.	1005.	7	NAD-SFC NoSubs
11	3	27	86	9	13.3	0.161	0.527	0.005	393.	155.	-28.1	0.1620	0.32	0.17	1.50	304.0	15.0	284.9	2.0	0	0.00	88.	1005.	10	NAD-SFC NoSubs

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11  3 27  86 10   20.1  0.188  0.623  0.005   430.  196.    -29.6  0.0780  0.32  0.15  2.10  293.0  15.0  286.1  2.0   0  0.00   80.  1005.   10 NAD-SFC NoSubs
11  3 27  86 11   85.1  0.243  1.098  0.005   558.  288.    -15.1  0.1620  0.32  0.14  2.10  308.0  15.0  287.0  2.0   0  0.00   74.  1006.    7 NAD-SFC NoSubs
11  3 27  86 12  103.5  0.197  1.256  0.005   687.  211.     -6.6  0.1620  0.32  0.14  1.50  321.0  15.0  288.2  2.0   0  0.00   65.  1005.    6 NAD-SFC NoSubs
11  3 27  86 13  110.9  0.158  1.361  0.005   815.  150.     -3.2  0.1880  0.32  0.14  1.00  332.0  15.0  289.4  2.0   0  0.00   58.  1005.    5 NAD-SFC NoSubs
11  3 27  86 14  103.2  0.203  1.383  0.005   920.  220.     -7.3  0.1880  0.32  0.14  1.50  330.0  15.0  290.2  2.0   0  0.00   53.  1004.    5 NAD-SFC NoSubs
11  3 27  86 15   90.0  0.252  1.362  0.005  1007.  303.    -15.9  0.1880  0.32  0.15  2.10  351.0  15.0  290.9  2.0   0  0.00   49.  1004.    4 NAD-SFC NoSubs
11  3 27  86 16   65.3  0.328  1.250  0.005  1072.  450.    -48.2  0.1880  0.32  0.17  3.10  351.0  15.0  291.2  2.0   0  0.00   47.  1004.    4 NAD-SFC NoSubs
11  3 27  86 17   33.7  0.357  1.013  0.005  1104.  511.   -120.2  0.1900  0.32  0.22  3.60    4.0  15.0  291.1  2.0   0  0.00   49.  1003.    3 NAD-SFC NoSubs
11  3 27  86 18   -1.3  0.285 -9.000 -9.000  -999.  369.   1567.6  0.1900  0.32  0.41  3.10   13.0  15.0  290.5  2.0   0  0.00   55.  1004.    3 NAD-SFC NoSubs
11  3 27  86 19  -31.6  0.315 -9.000 -9.000  -999.  424.     88.4  0.1900  0.32  1.00  3.60    8.0  15.0  289.5  2.0   0  0.00   60.  1004.    4 NAD-SFC NoSubs
11  3 27  86 20  -20.7  0.223 -9.000 -9.000  -999.  257.     48.2  0.1900  0.32  1.00  2.60   15.0  15.0  288.8  2.0   0  0.00   64.  1005.    4 NAD-SFC NoSubs
11  3 27  86 21   -4.9  0.104 -9.000 -9.000  -999.   90.     20.3  0.0780  0.32  1.00  1.50  290.0  15.0  288.1  2.0   0  0.00   67.  1005.    4 NAD-SFC NoSubs
11  3 27  86 22  -21.7  0.220 -9.000 -9.000  -999.  247.     43.9  0.0780  0.32  1.00  3.10  285.0  15.0  287.0  2.0   0  0.00   72.  1006.    4 NAD-SFC NoSubs
11  3 27  86 23  -30.9  0.303 -9.000 -9.000  -999.  399.     80.5  0.1620  0.32  1.00  3.60  303.0  15.0  285.8  2.0   0  0.00   77.  1007.    4 NAD-SFC NoSubs
11  3 27  86 24  -35.5  0.347 -9.000 -9.000  -999.  489.    105.2  0.1620  0.32  1.00  4.10  324.0  15.0  284.6  2.0   0  0.00   81.  1006.    4 NAD-SFC NoSubs
11  3 28  87  1  -32.2  0.314 -9.000 -9.000  -999.  423.     86.2  0.1880  0.32  1.00  3.60  330.0  15.0  283.9  2.0   0  0.00   84.  1006.    4 NAD-SFC NoSubs
11  3 28  87  2  -20.8  0.222 -9.000 -9.000  -999.  256.     47.5  0.1880  0.32  1.00  2.60  341.0  15.0  283.5  2.0   0  0.00   85.  1006.    4 NAD-SFC NoSubs
11  3 28  87  3   -6.7  0.124 -9.000 -9.000  -999.  110.     25.7  0.1880  0.32  1.00  1.50  355.0  15.0  283.2  2.0   0  0.00   86.  1006.    4 NAD-SFC NoSubs
11  3 28  87  4   -3.4  0.094 -9.000 -9.000  -999.   69.     21.9  0.1880  0.32  1.00  1.00  341.0  15.0  282.9  2.0   0  0.00   87.  1006.    4 NAD-SFC NoSubs
11  3 28  87  5   -3.2  0.092 -9.000 -9.000  -999.   67.     21.4  0.1620  0.32  1.00  1.00  310.0  15.0  282.6  2.0   0  0.00   88.  1006.    4 NAD-SFC NoSubs
11  3 28  87  6   -3.2  0.092 -9.000 -9.000  -999.   67.     21.4  0.1620  0.32  1.00  1.00  302.0  15.0  282.2  2.0   0  0.00   89.  1007.    4 NAD-SFC NoSubs
11  3 28  87  7   -2.8  0.105 -9.000 -9.000  -999.   82.     36.9  0.0780  0.32  0.44  1.50  291.0  15.0  282.2  2.0   0  0.00   90.  1007.    4 NAD-SFC NoSubs
11  3 28  87  8   29.7  0.228  0.568  0.005   222.  262.    -36.0  0.1880  0.32  0.23  2.10  335.0  15.0  283.5  2.0   0  0.00   84.  1008.    4 NAD-SFC NoSubs
11  3 28  87  9   61.8  0.192  0.874  0.005   388.  202.    -10.2  0.1880  0.32  0.17  1.50  331.0  15.0  284.6  2.0   0  0.00   80.  1008.    4 NAD-SFC NoSubs
11  3 28  87 10   87.4  0.193  1.095  0.005   540.  204.     -7.4  0.1620  0.32  0.15  1.50  314.0  15.0  285.6  2.0   0  0.00   75.  1008.    4 NAD-SFC NoSubs
11  3 28  87 11  105.2  0.248  1.259  0.005   683.  297.    -13.1  0.1620  0.32  0.14  2.10  306.0  15.0  286.2  2.0   0  0.00   72.  1008.    4 NAD-SFC NoSubs
11  3 28  87 12  116.0  0.291  1.386  0.005   825.  377.    -19.2  0.1620  0.32  0.14  2.60  313.0  15.0  286.8  2.0   0  0.00   71.  1007.    3 NAD-SFC NoSubs
11  3 28  87 13  116.6  0.292  1.455  0.005   949.  378.    -19.1  0.1620  0.32  0.14  2.60  314.0  15.0  287.8  2.0   0  0.00   67.  1006.    3 NAD-SFC NoSubs
11  3 28  87 14  108.3  0.290  1.471  0.006  1054.  374.    -20.1  0.1620  0.32  0.14  2.60  312.0  15.0  288.8  2.0   0  0.00   63.  1005.    2 NAD-SFC NoSubs
11  3 28  87 15   91.3  0.245  1.424  0.007  1135.  291.    -14.4  0.1620  0.32  0.15  2.10  322.0  15.0  289.5  2.0   0  0.00   60.  1005.    3 NAD-SFC NoSubs
11  3 28  87 16   66.0  0.193  1.299  0.008  1190.  204.     -9.7  0.1880  0.32  0.16  1.50  343.0  15.0  289.8  2.0   0  0.00   59.  1004.    3 NAD-SFC NoSubs
11  3 28  87 17   33.9  0.115  1.048  0.008  1217.   96.     -4.0  0.0760  0.32  0.22  1.00   88.0  15.0  289.5  2.0   0  0.00   62.  1004.    3 NAD-SFC NoSubs
11  3 28  87 18   -3.6  0.243 -9.000 -9.000  -999.  287.    360.5  0.0460  0.32  0.40  3.60  139.0  15.0  288.2  2.0   0  0.00   72.  1005.    2 NAD-SFC NoSubs
11  3 28  87 19  -27.9  0.258 -9.000 -9.000  -999.  314.     55.0  0.0380  0.32  1.00  4.10  155.0  15.0  286.6  2.0   0  0.00   82.  1005.    2 NAD-SFC NoSubs
11  3 28  87 20  -24.4  0.224 -9.000 -9.000  -999.  256.     41.6  0.0380  0.32  1.00  3.60  157.0  15.0  285.5  2.0   0  0.00   87.  1006.    2 NAD-SFC NoSubs
11  3 28  87 21  -24.5  0.224 -9.000 -9.000  -999.  255.     41.5  0.0380  0.32  1.00  3.60  163.0  15.0  284.8  2.0   0  0.00   89.  1006.    2 NAD-SFC NoSubs
11  3 28  87 22  -24.8  0.232 -9.000 -9.000  -999.  269.     45.5  0.0460  0.32  1.00  3.60  149.0  15.0  284.2  2.0   0  0.00   90.  1007.    3 NAD-SFC NoSubs
11  3 28  87 23  -19.0  0.198 -9.000 -9.000  -999.  212.     36.8  0.0460  0.32  1.00  3.10  146.0  15.0  283.9  2.0   0  0.00   89.  1007.    3 NAD-SFC NoSubs
11  3 28  87 24  -12.5  0.158 -9.000 -9.000  -999.  151.     28.4  0.0380  0.32  1.00  2.60  162.0  15.0  283.6  2.0   0  0.00   89.  1007.    3 NAD-SFC NoSubs
11  3 29  88  1   -8.0  0.126 -9.000 -9.000  -999.  107.     22.3  0.0380  0.32  1.00  2.10  169.0  15.0  283.2  2.0   0  0.00   89.  1007.    3 NAD-SFC NoSubs
11  3 29  88  2   -2.3  0.077 -9.000 -9.000  -999.   52.     17.5  0.0330  0.32  1.00  1.00  194.0  15.0  283.0  2.0   0  0.00   90.  1007.    2 NAD-SFC NoSubs
11  3 29  88  3   -2.4  0.077 -9.000 -9.000  -999.   52.     17.6  0.0340  0.32  1.00  1.00  236.0  15.0  282.5  2.0   0  0.00   89.  1008.    2 NAD-SFC NoSubs
11  3 29  88  4   -5.2  0.105 -9.000 -9.000  -999.   81.     19.8  0.0780  0.32  1.00  1.50  277.0  15.0  282.1  2.0   0  0.00   87.  1008.    2 NAD-SFC NoSubs
11  3 29  88  5   -5.2  0.105 -9.000 -9.000  -999.   81.     19.8  0.0780  0.32  1.00  1.50  291.0  15.0  281.8  2.0   0  0.00   85.  1009.    2 NAD-SFC NoSubs
11  3 29  88  6   -5.2  0.105 -9.000 -9.000  -999.   81.     19.8  0.0780  0.32  1.00  1.50  298.0  15.0  281.2  2.0   0  0.00   82.  1009.    2 NAD-SFC NoSubs
11  3 29  88  7   -3.2  0.104 -9.000 -9.000  -999.   80.     31.9  0.0780  0.32  0.43  1.50  276.0  15.0  281.2  2.0   0  0.00   81.  1010.    2 NAD-SFC NoSubs
11  3 29  88  8   29.5  0.131  0.462  0.007   120.  113.     -6.8  0.1620  0.32  0.23  1.00  327.0  15.0  283.2  2.0   0  0.00   66.  1010.    2 NAD-SFC NoSubs
11  3 29  88  9   62.7  0.093  0.775  0.007   268.   68.     -1.2  0.1620  0.32  0.17  0.50  300.0  15.0  285.2  2.0   0  0.00   57.  1011.    2 NAD-SFC NoSubs
11  3 29  88 10   89.1 -9.000 -9.000 -9.000   405. -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0  286.8  2.0   0  0.00   51.  1011.    2 NAD-SFC NoSubs
11  3 29  88 11  107.6  0.087  1.196  0.009   572.   61.     -1.0  0.0780  0.32  0.14  0.50  281.0  15.0  288.6  2.0   0  0.00   44.  1010.    2 NAD-SFC NoSubs
11  3 29  88 12  117.3  0.133  1.311  0.011   692.  117.     -1.8  0.0780  0.32  0.14  1.00  294.0  15.0  290.1  2.0   0  0.00   40.  1009.    2 NAD-SFC NoSubs
11  3 29  88 13  117.9  0.251  1.361  0.011   770.  302.    -12.1  0.1620  0.32  0.14  2.10  309.0  15.0  291.4  2.0   0  0.00   37.  1009.    2 NAD-SFC NoSubs
11  3 29  88 14  109.7  0.331  1.366  0.012   836.  457.    -29.7  0.1620  0.32  0.14  3.10  326.0  15.0  292.6  2.0   0  0.00   34.  1008.    2 NAD-SFC NoSubs
11  3 29  88 15   92.4  0.419  1.317  0.012   888.  650.    -71.4  0.1880  0.32  0.15  4.10  337.0  15.0  293.2  2.0   0  0.00   33.  1007.    2 NAD-SFC NoSubs
11  3 29  88 16   66.9  0.453  1.198  0.012   924.  732.   -125.0  0.1880  0.32  0.16  4.60  348.0  15.0  293.4  2.0   0  0.00   35.  1007.    2 NAD-SFC NoSubs
11  3 29  88 17   34.5  0.273  0.967  0.012   941.  368.    -52.7  0.1880  0.32  0.22  2.60  352.0  15.0  293.2  2.0   0  0.00   45.  1007.    2 NAD-SFC NoSubs
11  3 29  88 18    0.8  0.137  0.275  0.012   940.  139.   -295.8  0.1620  0.32  0.40  1.50  327.0  15.0  292.8  2.0   0  0.00   48.  1008.    3 NAD-SFC NoSubs
11  3 29  88 19   -5.0  0.104 -9.000 -9.000  -999.   81.     20.1  0.0780  0.32  1.00  1.50  297.0  15.0  291.6  2.0   0  0.00   52.  1008.    3 NAD-SFC NoSubs
11  3 29  88 20   -5.0  0.104 -9.000 -9.000  -999.   81.     20.1  0.0780  0.32  1.00  1.50  279.0  15.0  290.5  2.0   0  0.00   57.  1009.    3 NAD-SFC NoSubs
11  3 29  88 21   -2.2  0.075 -9.000 -9.000  -999.   50.     17.2  0.0310  0.32  1.00  1.00  266.0  15.0  289.5  2.0   0  0.00   61.  1009.    3 NAD-SFC NoSubs
11  3 29  88 22   -1.4  0.078 -9.000 -9.000  -999.   52.     30.6  0.1620  0.32  1.00  0.50  305.0  15.0  288.8  2.0   0  0.00   63.  1010.    3 NAD-SFC NoSubs
11  3 29  88 23   -1.0  0.066 -9.000 -9.000  -999.   41.     26.4  0.0310  0.32  1.00  0.50  265.0  15.0  287.8  2.0   0  0.00   67.  1010.    3 NAD-SFC NoSubs
11  3 29  88 24   -2.2  0.075 -9.000 -9.000  -999.   50.     17.2  0.0310  0.32  1.00  1.00  241.0  15.0  286.8  2.0   0  0.00   70.  1010.    3 NAD-SFC NoSubs
11  3 30  89  1   -4.0  0.090 -9.000 -9.000  -999.   65.     16.5  0.0310  0.32  1.00  1.50  255.0  15.0  286.2  2.0   0  0.00   73.  1010.    3 NAD-SFC NoSubs
11  3 30  89  2   -4.0  0.091 -9.000 -9.000  -999.   65.     16.5  0.0310  0.32  1.00  1.50  249.0  15.0  285.8  2.0   0  0.00   75.  1010.    3 NAD-SFC NoSubs
11  3 30  89  3   -4.0  0.091 -9.000 -9.000  -999.   65.     16.5  0.0310  0.32  1.00  1.50  250.0  15.0  285.4  2.0   0  0.00   78.  1009.    3 NAD-SFC NoSubs
11  3 30  89  4   -7.6  0.122 -9.000 -9.000  -999.  102.     21.2  0.0310  0.32  1.00  2.10  261.0  15.0  285.2  2.0   0  0.00   80.  1009.    3 NAD-SFC NoSubs
11  3 30  89  5   -5.2  0.105 -9.000 -9.000  -999.   81.     19.8  0.0780  0.32  1.00  1.50  276.0  15.0  284.9  2.0   0  0.00   82.  1009.    2 NAD-SFC NoSubs
11  3 30  89  6   -3.4  0.093 -9.000 -9.000  -999.   68.     21.5  0.1620  0.32  1.00  1.00  305.0  15.0  284.5  2.0   0  0.00   84.  1009.    2 NAD-SFC NoSubs
11  3 30  89  7   13.7 -9.000 -9.000 -9.000  -999. -999. -99999.0  0.0879  0.32  0.42  0.00    0.0  15.0  284.2  2.0   0  0.00   85.  1010.    2 NAD-SFC NoSubs
11  3 30  89  8   30.8  0.088  0.559  0.007   203.   62.     -2.0  0.1900  0.32  0.22  0.50    9.0  15.0  286.4  2.0   0  0.00   79.  1010.    2 NAD-SFC NoSubs
11  3 30  89  9   64.0  0.069  0.844  0.008   338.   44.     -1.0  0.0330  0.32  0.17  0.50  207.0  15.0  288.2  2.0   0  0.00   71.  1010.    2 NAD-SFC NoSubs
11  3 30  89 10   90.4  0.072  1.055  0.008   468.   46.     -1.0  0.0310  0.32  0.15  0.50  250.0  15.0  289.8  2.0   0  0.00   66.  1010.    2 NAD-SFC NoSubs
11  3 30  89 11  108.9  0.172  1.213  0.009   589.  172.     -4.2  0.0780  0.32  0.14  1.50  271.0  15.0  291.5  2.0   0  0.00   59.  1009.    2 NAD-SFC NoSubs
11  3 30  89 12  118.6  0.219  1.315  0.009   691.  246.     -8.0  0.0780  0.32  0.14  2.10  292.0  15.0  293.2  2.0   0  0.00   52.  1009.    2 NAD-SFC NoSubs
11  3 30  89 13  119.3  0.251  1.367  0.010   770.  303.    -12.0  0.1620  0.32  0.14  2.10  314.0  15.0  294.8  2.0   0  0.00   49.  1008.    2 NAD-SFC NoSubs
11  3 30  89 14  111.0  0.250  1.372  0.010   837.  299.    -12.6  0.1620  0.32  0.14  2.10  319.0  15.0  295.8  2.0   0  0.00   46.  1007.    2 NAD-SFC NoSubs
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11	3	30	89	15	93.8	0.201	1.324	0.010	890.	217.	-7.8	0.1880	0.32	0.15	1.50	333.0	15.0	296.5	2.0	0	0.00	45.	1007.	2	NAD-SFC NoSubs
11	3	30	89	16	68.3	0.194	1.208	0.009	927.	205.	-9.5	0.1880	0.32	0.16	1.50	335.0	15.0	296.9	2.0	0	0.00	44.	1006.	2	NAD-SFC NoSubs
11	3	30	89	17	35.9	0.138	0.982	0.009	945.	123.	-6.5	0.1880	0.32	0.22	1.00	338.0	15.0	296.9	2.0	0	0.00	46.	1006.	2	NAD-SFC NoSubs
11	3	30	89	18	1.1	-9.000	-9.000	-9.000	945.	-999.	-99999.0	0.0879	0.32	0.39	0.00	0.0	15.0	296.4	2.0	0	0.00	50.	1006.	2	NAD-SFC NoSubs
11	3	30	89	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	295.0	2.0	0	0.00	56.	1007.	2	NAD-SFC NoSubs
11	3	30	89	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	293.6	2.0	0	0.00	61.	1007.	2	NAD-SFC NoSubs
11	3	30	89	21	-1.0	0.068	-9.000	-9.000	-999.	42.	27.0	0.0380	0.32	1.00	0.50	175.0	15.0	292.4	2.0	0	0.00	67.	1007.	2	NAD-SFC NoSubs
11	3	30	89	22	-1.0	0.068	-9.000	-9.000	-999.	42.	27.1	0.0380	0.32	1.00	0.50	174.0	15.0	291.2	2.0	0	0.00	71.	1007.	2	NAD-SFC NoSubs
11	3	30	89	23	-4.5	0.096	-9.000	-9.000	-999.	71.	17.8	0.0460	0.32	1.00	1.50	147.0	15.0	290.5	2.0	0	0.00	74.	1007.	2	NAD-SFC NoSubs
11	3	30	89	24	-4.5	0.096	-9.000	-9.000	-999.	71.	17.8	0.0460	0.32	1.00	1.50	131.0	15.0	289.8	2.0	0	0.00	76.	1007.	2	NAD-SFC NoSubs
11	3	31	90	1	-2.5	0.080	-9.000	-9.000	-999.	54.	18.4	0.0510	0.32	1.00	1.00	116.0	15.0	289.2	2.0	0	0.00	79.	1006.	2	NAD-SFC NoSubs
11	3	31	90	2	-1.1	0.069	-9.000	-9.000	-999.	44.	27.6	0.0460	0.32	1.00	0.50	123.0	15.0	288.5	2.0	0	0.00	82.	1006.	2	NAD-SFC NoSubs
11	3	31	90	3	-1.0	0.067	-9.000	-9.000	-999.	41.	26.7	0.0310	0.32	1.00	0.50	254.0	15.0	287.9	2.0	0	0.00	83.	1006.	2	NAD-SFC NoSubs
11	3	31	90	4	-7.7	0.122	-9.000	-9.000	-999.	102.	21.1	0.0310	0.32	1.00	2.10	262.0	15.0	287.6	2.0	0	0.00	83.	1006.	2	NAD-SFC NoSubs
11	3	31	90	5	-11.9	0.153	-9.000	-9.000	-999.	143.	26.8	0.0310	0.32	1.00	2.60	257.0	15.0	287.2	2.0	0	0.00	83.	1006.	2	NAD-SFC NoSubs
11	3	31	90	6	-17.2	0.185	-9.000	-9.000	-999.	190.	32.9	0.0310	0.32	1.00	3.10	256.0	15.0	287.0	2.0	0	0.00	83.	1007.	2	NAD-SFC NoSubs
11	3	31	90	7	-5.4	0.227	-9.000	-9.000	-999.	260.	196.1	0.0780	0.32	0.41	3.10	273.0	15.0	287.1	2.0	0	0.00	80.	1007.	2	NAD-SFC NoSubs
11	3	31	90	8	32.2	0.230	0.419	0.011	82.	265.	-33.9	0.0780	0.32	0.22	2.60	298.0	15.0	289.2	2.0	0	0.00	66.	1007.	2	NAD-SFC NoSubs
11	3	31	90	9	65.4	0.125	0.706	0.011	193.	111.	-2.7	0.0780	0.32	0.17	1.00	283.0	15.0	291.4	2.0	0	0.00	60.	1007.	2	NAD-SFC NoSubs
11	3	31	90	10	92.1	0.072	0.935	0.011	319.	47.	-1.0	0.0310	0.32	0.15	0.50	265.0	15.0	293.8	2.0	0	0.00	53.	1006.	2	NAD-SFC NoSubs
11	3	31	90	11	110.7	0.133	1.098	0.011	429.	116.	-1.9	0.0780	0.32	0.14	1.00	271.0	15.0	296.1	2.0	0	0.00	46.	1006.	2	NAD-SFC NoSubs
11	3	31	90	12	120.4	0.174	1.211	0.010	529.	175.	-4.0	0.0780	0.32	0.14	1.50	291.0	15.0	297.6	2.0	0	0.00	44.	1005.	2	NAD-SFC NoSubs
11	3	31	90	13	121.0	0.134	1.275	0.009	614.	118.	-1.8	0.0780	0.32	0.14	1.00	298.0	15.0	298.9	2.0	0	0.00	41.	1004.	2	NAD-SFC NoSubs
11	3	31	90	14	112.7	0.158	1.292	0.008	686.	151.	-3.1	0.1880	0.32	0.14	1.00	332.0	15.0	299.9	2.0	0	0.00	39.	1003.	2	NAD-SFC NoSubs
11	3	31	90	15	95.5	0.202	1.256	0.007	742.	218.	-7.7	0.1900	0.32	0.15	1.50	5.0	15.0	300.5	2.0	0	0.00	38.	1002.	2	NAD-SFC NoSubs
11	3	31	90	16	70.2	0.289	1.154	0.007	782.	372.	-30.6	0.1900	0.32	0.16	2.60	25.0	15.0	301.4	2.0	0	0.00	36.	1001.	2	NAD-SFC NoSubs
11	3	31	90	17	37.7	0.254	0.945	0.007	801.	308.	-39.0	0.1280	0.32	0.21	2.60	34.0	15.0	301.0	2.0	0	0.00	44.	1001.	2	NAD-SFC NoSubs
11	3	31	90	18	2.6	0.224	0.389	0.007	801.	256.	-384.5	0.1280	0.32	0.39	2.60	47.0	15.0	300.2	2.0	0	0.00	47.	1001.	2	NAD-SFC NoSubs
11	3	31	90	19	-2.6	0.083	-9.000	-9.000	-999.	76.	19.2	0.0760	0.32	1.00	1.00	81.0	15.0	298.9	2.0	0	0.00	51.	1001.	2	NAD-SFC NoSubs
11	3	31	90	20	-1.0	0.066	-9.000	-9.000	-999.	41.	26.6	0.0340	0.32	1.00	0.50	223.0	15.0	297.2	2.0	0	0.00	58.	1001.	2	NAD-SFC NoSubs
11	3	31	90	21	-4.0	0.090	-9.000	-9.000	-999.	65.	16.5	0.0310	0.32	1.00	1.50	251.0	15.0	295.8	2.0	0	0.00	64.	1000.	2	NAD-SFC NoSubs
11	3	31	90	22	-7.5	0.122	-9.000	-9.000	-999.	102.	21.3	0.0310	0.32	1.00	2.10	266.0	15.0	294.9	2.0	0	0.00	66.	1000.	2	NAD-SFC NoSubs
11	3	31	90	23	-6.8	0.124	-9.000	-9.000	-999.	105.	25.4	0.1880	0.32	1.00	1.50	336.0	15.0	294.0	2.0	0	0.00	69.	1000.	2	NAD-SFC NoSubs
11	3	31	90	24	-18.0	0.202	-9.000	-9.000	-999.	218.	40.8	0.1280	0.32	1.00	2.60	34.0	15.0	292.9	2.0	0	0.00	75.	999.	2	NAD-SFC NoSubs
11	4	1	91	1	-28.3	0.269	-9.000	-9.000	-999.	334.	61.0	0.1900	0.32	1.00	3.10	29.0	15.0	292.2	2.0	0	0.00	78.	999.	2	NAD-SFC NoSubs
11	4	1	91	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0879	0.32	1.00	0.00	0.0	15.0	291.8	2.0	0	0.00	78.	999.	2	NAD-SFC NoSubs
11	4	1	91	3	-5.1	0.104	-9.000	-9.000	-999.	81.	20.0	0.0780	0.32	1.00	1.50	294.0	15.0	291.2	2.0	0	0.00	80.	999.	2	NAD-SFC NoSubs
11	4	1	91	4	-15.3	0.181	-9.000	-9.000	-999.	185.	34.8	0.0780	0.32	1.00	2.60	271.0	15.0	290.6	2.0	0	0.00	81.	999.	2	NAD-SFC NoSubs
11	4	1	91	5	-27.3	0.257	-9.000	-9.000	-999.	313.	55.4	0.0780	0.32	1.00	3.60	279.0	15.0	290.1	2.0	0	0.00	80.	999.	2	NAD-SFC NoSubs
11	4	1	91	6	-22.1	0.219	-9.000	-9.000	-999.	247.	42.6	0.0780	0.32	1.00	3.10	292.0	15.0	289.8	2.0	0	0.00	79.	999.	2	NAD-SFC NoSubs
11	4	1	91	7	-2.1	0.153	-9.000	-9.000	-999.	145.	149.7	0.0780	0.32	0.40	2.10	293.0	15.0	289.6	2.0	0	0.00	76.	1000.	2	NAD-SFC NoSubs
11	4	1	91	8	33.5	0.224	0.458	0.009	102.	254.	-29.9	0.1620	0.32	0.22	2.10	322.0	15.0	291.4	2.0	0	0.00	64.	999.	2	NAD-SFC NoSubs
11	4	1	91	9	66.7	0.094	0.712	0.009	193.	82.	-1.1	0.1620	0.32	0.16	0.50	306.0	15.0	293.2	2.0	0	0.00	59.	999.	2	NAD-SFC NoSubs
11	4	1	91	10	93.3	-9.000	-9.000	-9.000	330.	-999.	-99999.0	0.0879	0.32	0.15	0.00	0.0	15.0	295.5	2.0	0	0.00	53.	999.	2	NAD-SFC NoSubs
11	4	1	91	11	111.7	0.087	1.135	0.010	466.	62.	-1.0	0.0780	0.32	0.14	0.50	295.0	15.0	297.4	2.0	0	0.00	47.	998.	2	NAD-SFC NoSubs
11	4	1	91	12	121.4	0.102	1.264	0.009	592.	78.	-1.0	0.1620	0.32	0.14	0.50	307.0	15.0	298.9	2.0	0	0.00	44.	997.	2	NAD-SFC NoSubs
11	4	1	91	13	122.0	0.102	1.332	0.009	688.	78.	-1.0	0.1620	0.32	0.14	0.50	308.0	15.0	300.2	2.0	0	0.00	40.	996.	2	NAD-SFC NoSubs
11	4	1	91	14	113.8	0.154	1.342	0.009	755.	145.	-2.8	0.1620	0.32	0.14	1.00	321.0	15.0	301.5	2.0	0	0.00	36.	995.	2	NAD-SFC NoSubs
11	4	1	91	15	96.5	0.202	1.299	0.008	806.	218.	-7.5	0.1880	0.32	0.15	1.50	338.0	15.0	302.1	2.0	0	0.00	35.	995.	2	NAD-SFC NoSubs
11	4	1	91	16	71.0	0.288	1.190	0.008	842.	371.	-29.9	0.1880	0.32	0.16	2.60	354.0	15.0	302.2	2.0	0	0.00	35.	994.	2	NAD-SFC NoSubs
11	4	1	91	17	38.4	0.275	0.976	0.008	860.	346.	-48.0	0.1880	0.32	0.21	2.60	358.0	15.0	301.6	2.0	0	0.00	43.	994.	2	NAD-SFC NoSubs
11	4	1	91	18	3.2	0.201	0.427	0.008	860.	219.	-225.1	0.1880	0.32	0.38	2.10	352.0	15.0	300.8	2.0	0	0.00	47.	995.	2	NAD-SFC NoSubs
11	4	1	91	19	-6.3	0.120	-9.000	-9.000	-999.	102.	24.5	0.1620	0.32	1.00	1.50	305.0	15.0	299.4	2.0	0	0.00	51.	995.	2	NAD-SFC NoSubs
11	4	1	91	20	-22.3	0.217	-9.000	-9.000	-999.	243.	40.6	0.0310	0.32	1.00	3.60	260.0	15.0	298.5	2.0	0	0.00	53.	996.	2	NAD-SFC NoSubs
11	4	1	91	21	-38.5	0.370	-9.000	-9.000	-999.	540.	117.0	0.0780	0.32	1.00	5.10	272.0	15.0	295.4	2.0	0	0.00	61.	996.	2	NAD-SFC NoSubs
11	4	1	91	22	-30.9	0.295	-9.000	-9.000	-999.	387.	73.8	0.0780	0.32	1.00	4.10	275.0	15.0	293.6	2.0	0	0.00	65.	997.	2	NAD-SFC NoSubs
11	4	1	91	23	-22.8	0.217	-9.000	-9.000	-999.	245.	39.8	0.0310	0.32	1.00	3.60	268.0	15.0	292.8	2.0	0	0.00	65.	997.	2	NAD-SFC NoSubs
11	4	1	91	24	-15.2	0.181	-9.000	-9.000	-999.	186.	34.9	0.0780	0.32	1.00	2.60	285.0	15.0	292.2	2.0	0	0.00	65.	997.	2	NAD-SFC NoSubs
11	4	2	92	1	-6.4	0.120	-9.000	-9.000	-999.	101.	24.2	0.1620	0.32	1.00	1.50	304.0	15.0	291.8	2.0	0	0.00	66.	997.	2	NAD-SFC NoSubs
11	4	2	92	2	-2.7	0.084	-9.000	-9.000	-999.	58.	19.3	0.0780	0.32	1.00	1.00	285.0	15.0	291.5	2.0	0	0.00	66.	997.	2	NAD-SFC NoSubs
11	4	2	92	3	-4.0	0.091	-9.000	-9.000	-999.	65.	16.5	0.0310	0.32	1.00	1.50	259.0	15.0	291.2	2.0	0	0.00	67.	997.	2	NAD-SFC NoSubs
11	4	2	92	4	-9.8	0.144	-9.000	-9.000	-999.	131.	27.1	0.0780	0.32	1.00	2.10	277.0	15.0	290.8	2.0	0	0.00	68.	997.	2	NAD-SFC NoSubs
11	4	2	92	5	-6.4	0.120	-9.000	-9.000	-999.	100.	24.2	0.1620	0.32	1.00	1.50	304.0	15.0	290.5	2.0	0	0.00	69.	997.	2	NAD-SFC NoSubs
11	4	2	92	6	-1.4	0.078	-9.000	-9.000	-999.	53.	30.8	0.1620	0.32	1.00	0.50	322.0	15.0	290.2	2.0	0	0.00	70.	998.	2	NAD-SFC NoSubs
11	4	2	92	7	-0.5	0.085	-9.000	-9.000	-999.	59.	104.8	0.1620	0.32	0.40	1.00	327.0	15.0	290.2	2.0	0	0.00	70.	998.	2	NAD-SFC NoSubs
11	4	2	92	8	34.1	0.231	0.554	0.006	177.	267.	-32.2	0.1880	0.32	0.22	2.10	330.0	15.0	290.2	2.0	0	0.00	72.	999.	2	NAD-SFC NoSubs
11	4	2	92	9	67.0	0.278	0.853	0.006	330.	353.	-28.7	0.1620	0.32	0.16	2.60	309.0	15.0	291.0	2.0	0	0.00	66.	999.	2	NAD-SFC NoSubs
11	4	2	92	10	93.2	0.098	1.085	0.007	489.	111.	-1.0	0.1620	0.32	0.15	0.50	311.0	15.0	292.0	2.0	0	0.00	59.	999.	2	NAD-SFC NoSubs
11	4	2	92	11	111.3	-9.000	-9.000	-9.000	641.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	293.1	2.0	0	0.00	53.	999.	2	NAD-SFC NoSubs
11	4	2	92	12	120.7	-9.000	-9.000	-9.000	748.	-999.	-99999.0	0.0879	0.32	0.14	0.00	0.0	15.0	294.2	2.0	0	0.00	48.	998.	2	NAD-SFC NoSubs
11	4	2	92	13	121.1	0.102	1.418	0.006	839.	78.	-1.0	0.1620	0.32	0.14	0.50	329.0	15.0	295.1	2.0	0	0.00	44.	998.	2	NAD-SFC NoSubs
11	4	2	92	14	112.6	0.159	1.425	0.007	916.	152.	-3.2	0.1900	0.32	0.14	1.00	17.0	15.0	295.8	2.0	0	0.00	42.	998.	2	NAD-SFC NoSubs
11	4	2	92	15	95.4	0.202	1.378	0.007	977.	218.	-7.7	0.1900	0.32	0.15	1.50	20.0	15.0	296.1	2.0	0	0.00	41.	997.	3	NAD-SFC NoSubs
11	4	2	92	16	70.0	0.247	1.264	0.007	1026.	294.	-19.0	0.1900	0.32	0.16	2.10	19.0	15.0	296.2	2.0	0	0.00	41.	997.	3	NAD-SFC NoSubs
11	4	2	92	17	37.9	0.275	1.038	0.007	1050.	346.	-48.9	0.1900	0.32	0.21	2.60	10.0	15.0	295.9	2.0	0	0.00	50.	997.	3	NAD-SFC NoSubs
11	4	2	92	18	3.0	0.333	0.447	0.007	1050.	460.	-1086.0	0.1880	0.32	0.38	3.60	355.0	15.0	295.0	2.0	0	0.00	56.	998.	3	NAD-SFC NoSubs
11	4	2	92	19	-34.2	0.347	-9.000	-9.000	-999.	490.	108.7	0.1620	0.32	1.00	4.10	314.0	15.0	293.5	2.0	0	0.00	65.	999.	4	NAD-SFC NoSubs

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11  4  2  92 20  -36.7  0.370 -9.000 -9.000 -999.  541.    123.4  0.0780  0.32  1.00   5.10  276.0  15.0  292.0  2.0   0  0.00  73.   999.    4 NAD-SFC NoSubs
11  4  2  92 21  -28.0  0.281 -9.000 -9.000 -999.  362.     70.7  0.0310  0.32  1.00   4.60  269.0  15.0  290.5  2.0   0  0.00  79.  1000.    4 NAD-SFC NoSubs
11  4  2  92 22  -28.1  0.281 -9.000 -9.000 -999.  358.     70.5  0.0310  0.32  1.00   4.60  269.0  15.0  289.8  2.0   0  0.00  80.  1000.    4 NAD-SFC NoSubs
11  4  2  92 23  -13.7  0.252 -9.000 -9.000 -999.  305.    104.7  0.0310  0.32  1.00   4.10  268.0  15.0  290.0  2.0   0  0.00  79.  1001.   10 NAD-SFC NoSubs
11  4  2  92 24  -16.3  0.299 -9.000 -9.000 -999.  392.    146.6  0.0780  0.32  1.00   4.10  286.0  15.0  289.8  2.0   0  0.00  80.  1001.   10 NAD-SFC NoSubs
11  4  3  93  1  -29.2  0.393 -9.000 -9.000 -999.  591.    185.9  0.1620  0.32  1.00   4.60  320.0  15.0  288.8  2.0   0  0.00  79.  1001.    8 NAD-SFC NoSubs
11  4  3  93  2  -35.2  0.392 -9.000 -9.000 -999.  588.    152.4  0.1620  0.32  1.00   4.60  322.0  15.0  287.8  2.0   0  0.00  73.  1002.    6 NAD-SFC NoSubs
11  4  3  93  3  -33.4  0.347 -9.000 -9.000 -999.  492.    111.7  0.1620  0.32  1.00   4.10  316.0  15.0  286.6  2.0   0  0.00  71.  1002.    5 NAD-SFC NoSubs
11  4  3  93  4  -35.2  0.347 -9.000 -9.000 -999.  490.    105.6  0.1620  0.32  1.00   4.10  306.0  15.0  285.6  2.0   0  0.00  71.  1003.    4 NAD-SFC NoSubs
11  4  3  93  5  -30.9  0.303 -9.000 -9.000 -999.  400.     80.2  0.1620  0.32  1.00   3.60  308.0  15.0  284.8  2.0   0  0.00  72.  1003.    4 NAD-SFC NoSubs
11  4  3  93  6  -19.5  0.214 -9.000 -9.000 -999.  241.     45.1  0.1620  0.32  1.00   2.60  315.0  15.0  284.2  2.0   0  0.00  72.  1004.    4 NAD-SFC NoSubs
11  4  3  93  7    1.1  0.330  0.082  0.005   18.  456.  -2991.3  0.1880  0.32  0.39   3.60  330.0  15.0  284.8  2.0   0  0.00  65.  1005.    4 NAD-SFC NoSubs
11  4  3  93  8   35.1  0.399  0.568  0.005  187.  604.   -161.6  0.1880  0.32  0.21   4.10  354.0  15.0  286.2  2.0   0  0.00  51.  1006.    4 NAD-SFC NoSubs
11  4  3  93  9   67.5  0.328  0.840  0.005  315.  454.    -47.0  0.1880  0.32  0.16   3.10  343.0  15.0  287.2  2.0   0  0.00  46.  1006.    3 NAD-SFC NoSubs
11  4  3  93 10   93.3  0.253  1.056  0.005  452.  308.    -15.5  0.1880  0.32  0.15   2.10  333.0  15.0  288.5  2.0   0  0.00  43.  1006.    3 NAD-SFC NoSubs
11  4  3  93 11  111.2  0.250  1.235  0.005  607.  300.    -12.5  0.1620  0.32  0.14   2.10  308.0  15.0  289.8  2.0   0  0.00  40.  1005.    3 NAD-SFC NoSubs
11  4  3  93 12  120.6  0.293  1.387  0.005  792.  380.    -18.6  0.1620  0.32  0.14   2.60  314.0  15.0  291.2  2.0   0  0.00  37.  1004.    2 NAD-SFC NoSubs
11  4  3  93 13  121.0  0.252  1.483  0.005  966.  304.    -11.8  0.1620  0.32  0.14   2.10  312.0  15.0  292.2  2.0   0  0.00  35.  1004.    2 NAD-SFC NoSubs
11  4  3  93 14  112.4  0.250  1.586  0.005 1271.  300.    -12.4  0.1620  0.32  0.14   2.10  327.0  15.0  292.9  2.0   0  0.00  33.  1003.    2 NAD-SFC NoSubs
11  4  3  93 15   95.0  0.253  1.539  0.006 1375.  306.    -15.3  0.1880  0.32  0.15   2.10  345.0  15.0  293.2  2.0   0  0.00  32.  1003.    2 NAD-SFC NoSubs
11  4  3  93 16   69.4  0.245  1.399  0.006 1412.  292.    -19.0  0.1880  0.32  0.16   2.10  353.0  15.0  293.4  2.0   0  0.00  31.  1003.    2 NAD-SFC NoSubs
11  4  3  93 17   37.0  0.274  1.140  0.006 1431.  344.    -49.7  0.1880  0.32  0.21   2.60  343.0  15.0  293.2  2.0   0  0.00  31.  1002.    2 NAD-SFC NoSubs
11  4  3  93 18    1.9  0.192  0.421  0.006 1431.  204.   -337.5  0.1620  0.32  0.38   2.10  326.0  15.0  292.8  2.0   0  0.00  36.  1003.    2 NAD-SFC NoSubs
11  4  3  93 19   -6.4  0.120 -9.000 -9.000 -999.  102.     24.2  0.1620  0.32  1.00   1.50  319.0  15.0  291.9  2.0   0  0.00  38.  1004.    2 NAD-SFC NoSubs
11  4  3  93 20   -6.5  0.120 -9.000 -9.000 -999.  100.     24.2  0.1620  0.32  1.00   1.50  317.0  15.0  290.8  2.0   0  0.00  41.  1005.    2 NAD-SFC NoSubs
11  4  3  93 21   -3.5  0.095 -9.000 -9.000 -999.   70.     21.9  0.1880  0.32  1.00   1.00  331.0  15.0  289.6  2.0   0  0.00  46.  1005.    2 NAD-SFC NoSubs
11  4  3  93 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00   0.00    0.0  15.0  288.5  2.0   0  0.00  51.  1006.    2 NAD-SFC NoSubs
11  4  3  93 23   -1.0  0.068 -9.000 -9.000 -999.   43.     27.2  0.0380  0.32  1.00   0.50  158.0  15.0  287.4  2.0   0  0.00  56.  1007.    2 NAD-SFC NoSubs
11  4  3  93 24   -1.0  0.067 -9.000 -9.000 -999.   42.     26.7  0.0310  0.32  1.00   0.50  243.0  15.0  286.6  2.0   0  0.00  60.  1007.    2 NAD-SFC NoSubs
11  4  4  94  1   -5.2  0.105 -9.000 -9.000 -999.   81.     19.9  0.0780  0.32  1.00   1.50  283.0  15.0  286.2  2.0   0  0.00  59.  1007.    2 NAD-SFC NoSubs
11  4  4  94  2  -15.5  0.181 -9.000 -9.000 -999.  185.     34.4  0.0780  0.32  1.00   2.60  292.0  15.0  285.6  2.0   0  0.00  60.  1007.    2 NAD-SFC NoSubs
11  4  4  94  3  -15.6  0.181 -9.000 -9.000 -999.  185.     34.4  0.0780  0.32  1.00   2.60  292.0  15.0  284.9  2.0   0  0.00  62.  1007.    2 NAD-SFC NoSubs
11  4  4  94  4  -28.2  0.258 -9.000 -9.000 -999.  315.     54.7  0.1620  0.32  1.00   3.10  300.0  15.0  284.2  2.0   0  0.00  63.  1007.    2 NAD-SFC NoSubs
11  4  4  94  5  -15.6  0.181 -9.000 -9.000 -999.  187.     34.3  0.0780  0.32  1.00   2.60  298.0  15.0  283.6  2.0   0  0.00  63.  1008.    2 NAD-SFC NoSubs
11  4  4  94  6  -10.0  0.144 -9.000 -9.000 -999.  131.     26.7  0.0780  0.32  1.00   2.10  297.0  15.0  283.1  2.0   0  0.00  63.  1008.    2 NAD-SFC NoSubs
11  4  4  94  7   -0.5  0.231 -9.000 -9.000 -999.  266.   2069.8  0.1620  0.32  0.38   2.60  311.0  15.0  283.2  2.0   0  0.00  59.  1009.    2 NAD-SFC NoSubs
11  4  4  94  8   34.9  0.265  0.478  0.006  112.  327.    -47.7  0.1620  0.32  0.21   2.60  324.0  15.0  285.0  2.0   0  0.00  49.  1009.    2 NAD-SFC NoSubs
11  4  4  94  9   67.8  0.164  0.730  0.008  206.  163.     -5.8  0.0780  0.32  0.16   1.50  296.0  15.0  287.0  2.0   0  0.00  44.  1009.    2 NAD-SFC NoSubs
11  4  4  94 10   94.1  0.170  0.949  0.006  327.  168.     -4.7  0.0780  0.32  0.15   1.50  288.0  15.0  289.4  2.0   0  0.00  38.  1008.    2 NAD-SFC NoSubs
11  4  4  94 11  112.2  0.133  1.135  0.005  468.  116.     -1.9  0.0780  0.32  0.14   1.00  296.0  15.0  291.2  2.0   0  0.00  34.  1008.    2 NAD-SFC NoSubs
11  4  4  94 12  121.7  0.102  1.290  0.006  634.   78.     -1.0  0.1620  0.32  0.14   0.50  305.0  15.0  293.2  2.0   0  0.00  31.  1007.    2 NAD-SFC NoSubs
11  4  4  94 13  122.2  0.102  1.390  0.007  790.   78.     -1.0  0.1620  0.32  0.14   0.50  318.0  15.0  294.9  2.0   0  0.00  28.  1006.    2 NAD-SFC NoSubs
11  4  4  94 14  113.7  0.158  1.426  0.008  915.  151.     -3.1  0.1880  0.32  0.14   1.00  332.0  15.0  296.1  2.0   0  0.00  27.  1005.    2 NAD-SFC NoSubs
11  4  4  94 15   96.4  0.202  1.387  0.008  991.  217.     -7.6  0.1880  0.32  0.15   1.50  348.0  15.0  296.8  2.0   0  0.00  27.  1004.    2 NAD-SFC NoSubs
11  4  4  94 16   70.8  0.289  1.265  0.008 1026.  372.    -30.4  0.1900  0.32  0.16   2.60    6.0  15.0  296.9  2.0   0  0.00  28.  1004.    2 NAD-SFC NoSubs
11  4  4  94 17   38.2  0.317  1.037  0.008 1043.  427.    -74.3  0.1900  0.32  0.21   3.10   24.0  15.0  296.2  2.0   0  0.00  36.  1003.    2 NAD-SFC NoSubs
11  4  4  94 18    2.8  0.378  0.436  0.008 1042.  558.  -1705.4  0.1900  0.32  0.37   4.10   26.0  15.0  295.0  2.0   0  0.00  42.  1004.    2 NAD-SFC NoSubs
11  4  4  94 19  -34.6  0.328 -9.000 -9.000 -999.  452.     91.2  0.1280  0.32  1.00   4.10   36.0  15.0  293.8  2.0   0  0.00  45.  1004.    2 NAD-SFC NoSubs
11  4  4  94 20  -18.1  0.202 -9.000 -9.000 -999.  228.     40.8  0.1280  0.32  1.00   2.60   45.0  15.0  292.6  2.0   0  0.00  47.  1003.    2 NAD-SFC NoSubs
11  4  4  94 21   -1.3  0.076 -9.000 -9.000 -999.   66.     30.2  0.1280  0.32  1.00   0.50   31.0  15.0  291.6  2.0   0  0.00  50.  1003.    2 NAD-SFC NoSubs
11  4  4  94 22   -1.0  0.067 -9.000 -9.000 -999.   41.     26.6  0.0310  0.32  1.00   0.50  264.0  15.0  290.2  2.0   0  0.00  56.  1004.    2 NAD-SFC NoSubs
11  4  4  94 23   -2.7  0.084 -9.000 -9.000 -999.   59.     19.4  0.0780  0.32  1.00   1.00  290.0  15.0  289.1  2.0   0  0.00  61.  1004.    2 NAD-SFC NoSubs
11  4  4  94 24   -6.5  0.120 -9.000 -9.000 -999.  100.     24.1  0.1620  0.32  1.00   1.50  304.0  15.0  288.1  2.0   0  0.00  64.  1003.    2 NAD-SFC NoSubs
11  4  5  95  1   -3.3  0.093 -9.000 -9.000 -999.   68.     21.5  0.1620  0.32  1.00   1.00  325.0  15.0  287.2  2.0   0  0.00  65.  1003.    2 NAD-SFC NoSubs
11  4  5  95  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00   0.00    0.0  15.0  286.8  2.0   0  0.00  66.  1003.    2 NAD-SFC NoSubs
11  4  5  95  3   -1.3  0.077 -9.000 -9.000 -999.   51.     30.4  0.1280  0.32  1.00   0.50   42.0  15.0  286.1  2.0   0  0.00  68.  1002.    2 NAD-SFC NoSubs
11  4  5  95  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00   0.00    0.0  15.0  285.6  2.0   0  0.00  69.  1002.    2 NAD-SFC NoSubs
11  4  5  95  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00   0.00    0.0  15.0  285.2  2.0   0  0.00  69.  1002.    2 NAD-SFC NoSubs
11  4  5  95  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00   0.00    0.0  15.0  285.1  2.0   0  0.00  69.  1002.    2 NAD-SFC NoSubs
11  4  5  95  7    0.7 -9.000 -9.000 -9.000    7. -999. -99999.0  0.0879  0.32  0.37   0.00    0.0  15.0  285.0  2.0   0  0.00  69.  1002.    2 NAD-SFC NoSubs
11  4  5  95  8   36.0 -9.000 -9.000 -9.000   80. -999. -99999.0  0.0879  0.32  0.21   0.00    0.0  15.0  286.6  2.0   0  0.00  66.  1002.    2 NAD-SFC NoSubs
11  4  5  95  9   69.2 -9.000 -9.000 -9.000  200. -999. -99999.0  0.0879  0.32  0.16   0.00    0.0  15.0  290.1  2.0   0  0.00  49.  1002.    2 NAD-SFC NoSubs
11  4  5  95 10   95.4 -9.000 -9.000 -9.000  338. -999. -99999.0  0.0879  0.32  0.15   0.00    0.0  15.0  292.5  2.0   0  0.00  43.  1002.    2 NAD-SFC NoSubs
11  4  5  95 11  113.6  0.101  1.156  0.006  486.   77.     -1.0  0.1620  0.32  0.14   0.50  325.0  15.0  294.5  2.0   0  0.00  37.  1002.    2 NAD-SFC NoSubs
11  4  5  95 12  122.9  0.155  1.294  0.005  630.  147.     -2.7  0.1620  0.32  0.14   1.00  322.0  15.0  295.9  2.0   0  0.00  33.  1001.    2 NAD-SFC NoSubs
11  4  5  95 13  123.3  0.207  1.375  0.005  753.  226.     -6.4  0.1880  0.32  0.14   1.50  333.0  15.0  297.1  2.0   0  0.00  30.  1000.    2 NAD-SFC NoSubs
11  4  5  95 14  114.7  0.300  1.400  0.005  853.  395.    -21.0  0.1880  0.32  0.14   2.60  345.0  15.0  297.8  2.0   0  0.00  27.   999.    2 NAD-SFC NoSubs
11  4  5  95 15   97.2  0.420  1.363  0.005  929.  654.    -68.1  0.1880  0.32  0.15   4.10  346.0  15.0  297.9  2.0   0  0.00  28.   999.    2 NAD-SFC NoSubs
11  4  5  95 16   71.5  0.591  1.257  0.006  990. 1090.   -257.0  0.1880  0.32  0.16   6.20  340.0  15.0  297.6  2.0   0  0.00  39.   998.    2 NAD-SFC NoSubs
11  4  5  95 17   38.7  0.443  1.041  0.005 1038.  728.   -199.7  0.1880  0.32  0.21   4.60  342.0  15.0  296.2  2.0   0  0.00  52.   998.    2 NAD-SFC NoSubs
11  4  5  95 18    3.2  0.453  0.452  0.005 1035.  731.  -2609.5  0.1620  0.32  0.37   5.10  329.0  15.0  294.6  2.0   0  0.00  62.   999.    2 NAD-SFC NoSubs
11  4  5  95 19  -53.5  0.506 -9.000 -9.000 -999.  864.    216.1  0.1880  0.32  1.00   5.70  332.0  15.0  291.8  2.0   0  0.00  80.   999.    2 NAD-SFC NoSubs
11  4  5  95 20  -46.8  0.451 -9.000 -9.000 -999.  730.    175.0  0.1880  0.32  1.00   5.10  334.0  15.0  289.9  2.0   0  0.00  86.  1000.    3 NAD-SFC NoSubs
11  4  5  95 21  -36.0  0.346 -9.000 -9.000 -999.  497.    102.8  0.1620  0.32  1.00   4.10  324.0  15.0  289.0  2.0   0  0.00  88.  1000.    3 NAD-SFC NoSubs
11  4  5  95 22  -26.9  0.258 -9.000 -9.000 -999.  319.     57.1  0.1620  0.32  1.00   3.10  309.0  15.0  288.5  2.0   0  0.00  89.  1000.    3 NAD-SFC NoSubs
11  4  5  95 23  -21.9  0.219 -9.000 -9.000 -999.  247.     43.1  0.0780  0.32  1.00   3.10  281.0  15.0  288.1  2.0   0  0.00  89.  1001.    3 NAD-SFC NoSubs
11  4  5  95 24  -11.7  0.153 -9.000 -9.000 -999.  144.     27.2  0.0310  0.32  1.00   2.60  254.0  15.0  287.9  2.0   0  0.00  88.  1001.    3 NAD-SFC NoSubs
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11  4  6  96  1  -11.8  0.155  -9.000  -9.000  -999.  147.    28.5  0.0340  0.32  1.00   2.60  216.0  15.0  287.9  2.0  0  0.00  85.  1001.   4 NAD-SFC NoSubs
11  4  6  96  2   -6.9  0.124  -9.000  -9.000  -999.  105.    24.9  0.0340  0.32  1.00   2.10  212.0  15.0  288.0  2.0  0  0.00  82.  1001.   7 NAD-SFC NoSubs
11  4  6  96  3   -1.8  0.070  -9.000  -9.000  -999.   45.    16.5  0.0310  0.32  1.00   1.00  251.0  15.0  288.1  2.0  0  0.00  78.  1001.   7 NAD-SFC NoSubs
11  4  6  96  4   -3.0  0.090  -9.000  -9.000  -999.   65.    21.3  0.1620  0.32  1.00   1.00  314.0  15.0  288.0  2.0  0  0.00  77.  1002.   5 NAD-SFC NoSubs
11  4  6  96  5   -6.3  0.120  -9.000  -9.000  -999.  100.    24.7  0.1620  0.32  1.00   1.50  311.0  15.0  287.8  2.0  0  0.00  76.  1002.   4 NAD-SFC NoSubs
11  4  6  96  6  -26.1  0.259  -9.000  -9.000  -999.  316.    59.1  0.1620  0.32  1.00   3.10  317.0  15.0  287.2  2.0  0  0.00  74.  1002.   4 NAD-SFC NoSubs
11  4  6  96  7    2.7  0.278   0.159   0.005    53.  353.  -711.3  0.1620  0.32  0.37   3.10  325.0  15.0  286.5  2.0  0  0.00  73.  1003.   3 NAD-SFC NoSubs
11  4  6  96  8   37.5  0.400   0.669   0.005   286.  606.  -152.5  0.1880  0.32  0.21   4.10  341.0  15.0  286.2  2.0  0  0.00  66.  1004.   3 NAD-SFC NoSubs
11  4  6  96  9   69.8  0.329   0.935   0.005   419.  456.   -45.7  0.1880  0.32  0.16   3.10  338.0  15.0  287.1  2.0  0  0.00  59.  1004.   3 NAD-SFC NoSubs
11  4  6  96 10   95.3  0.253   1.171   0.005   604.  309.   -15.3  0.1880  0.32  0.15   2.10  331.0  15.0  288.4  2.0  0  0.00  54.  1004.   2 NAD-SFC NoSubs
11  4  6  96 11  113.3  0.199   1.343   0.005   766.  214.    -6.2  0.1620  0.32  0.14   1.50  325.0  15.0  290.2  2.0  0  0.00  49.  1004.   2 NAD-SFC NoSubs
11  4  6  96 12  122.5  0.252   1.458   0.005   908.  304.   -11.7  0.1620  0.32  0.14   2.10  324.0  15.0  291.8  2.0  0  0.00  44.  1004.   2 NAD-SFC NoSubs
11  4  6  96 13  122.7  0.293   1.529   0.005  1042.  381.   -18.3  0.1620  0.32  0.14   2.60  318.0  15.0  292.8  2.0  0  0.00  41.  1003.   2 NAD-SFC NoSubs
11  4  6  96 14  114.1  0.383   1.547   0.006  1162.  570.   -44.2  0.1880  0.32  0.14   3.60  334.0  15.0  293.5  2.0  0  0.00  38.  1003.   2 NAD-SFC NoSubs
11  4  6  96 15   96.6  0.420   1.503   0.007  1256.  653.   -68.6  0.1880  0.32  0.15   4.10  334.0  15.0  294.0  2.0  0  0.00  35.  1002.   2 NAD-SFC NoSubs
11  4  6  96 16   71.0  0.497   1.379   0.008  1319.  840.  -154.3  0.1880  0.32  0.16   5.10  342.0  15.0  294.1  2.0  0  0.00  34.  1002.   2 NAD-SFC NoSubs
11  4  6  96 17   38.5  0.358   1.131   0.008  1345.  529.  -106.4  0.1880  0.32  0.21   3.60  339.0  15.0  293.5  2.0  0  0.00  43.  1002.   2 NAD-SFC NoSubs
11  4  6  96 18    3.0  0.365   0.485   0.008  1344.  530.  -1436.8  0.1620  0.32  0.37   4.10  329.0  15.0  292.2  2.0  0  0.00  50.  1002.   2 NAD-SFC NoSubs
11  4  6  96 19  -41.6  0.390  -9.000  -9.000  -999.  585.   127.7  0.1620  0.32  1.00   4.60  324.0  15.0  290.0  2.0  0  0.00  56.  1003.   2 NAD-SFC NoSubs
11  4  6  96 20  -41.9  0.390  -9.000  -9.000  -999.  585.   126.8  0.1620  0.32  1.00   4.60  328.0  15.0  288.2  2.0  0  0.00  61.  1003.   2 NAD-SFC NoSubs
11  4  6  96 21  -48.6  0.451  -9.000  -9.000  -999.  726.   168.5  0.1880  0.32  1.00   5.10  330.0  15.0  287.0  2.0  0  0.00  66.  1004.   2 NAD-SFC NoSubs
11  4  6  96 22  -47.1  0.434  -9.000  -9.000  -999.  688.   155.8  0.1620  0.32  1.00   5.10  322.0  15.0  285.8  2.0  0  0.00  73.  1004.   2 NAD-SFC NoSubs
11  4  6  96 23  -41.4  0.390  -9.000  -9.000  -999.  587.   128.6  0.1620  0.32  1.00   4.60  323.0  15.0  284.5  2.0  0  0.00  78.  1005.   3 NAD-SFC NoSubs
11  4  6  96 24  -36.9  0.346  -9.000  -9.000  -999.  490.   100.8  0.1620  0.32  1.00   4.10  316.0  15.0  283.6  2.0  0  0.00  79.  1005.   3 NAD-SFC NoSubs
11  4  7  97  1  -26.6  0.258  -9.000  -9.000  -999.  319.    58.2  0.1620  0.32  1.00   3.10  323.0  15.0  282.8  2.0  0  0.00  81.  1006.   4 NAD-SFC NoSubs
11  4  7  97  2  -19.6  0.214  -9.000  -9.000  -999.  239.    44.9  0.1620  0.32  1.00   2.60  313.0  15.0  282.2  2.0  0  0.00  82.  1006.   4 NAD-SFC NoSubs
11  4  7  97  3   -4.9  0.104  -9.000  -9.000  -999.   87.    20.5  0.0780  0.32  1.00   1.50  283.0  15.0  281.8  2.0  0  0.00  82.  1006.   5 NAD-SFC NoSubs
11  4  7  97  4   -9.7  0.144  -9.000  -9.000  -999.  131.    27.6  0.0780  0.32  1.00   2.10  274.0  15.0  281.4  2.0  0  0.00  81.  1006.   4 NAD-SFC NoSubs
11  4  7  97  5   -7.5  0.122  -9.000  -9.000  -999.  102.    21.5  0.0310  0.32  1.00   2.10  247.0  15.0  281.1  2.0  0  0.00  80.  1005.   4 NAD-SFC NoSubs
11  4  7  97  6   -7.3  0.122  -9.000  -9.000  -999.  102.    22.1  0.0310  0.32  1.00   2.10  240.0  15.0  281.0  2.0  0  0.00  79.  1005.   5 NAD-SFC NoSubs
11  4  7  97  7   -2.7  0.128  -9.000  -9.000  -999.  110.    70.0  0.0310  0.32  0.36   2.10  260.0  15.0  281.5  2.0  0  0.00  76.  1005.  10 NAD-SFC NoSubs
11  4  7  97  8    7.2  0.176   0.269   0.005    97.  177.   -68.3  0.0780  0.32  0.21   2.10  294.0  15.0  282.9  2.0  0  0.00  68.  1005.  10 NAD-SFC NoSubs
11  4  7  97  9   15.4  0.184   0.472   0.005   244.  190.   -36.5  0.0780  0.32  0.16   2.10  288.0  15.0  283.8  2.0  0  0.00  64.  1004.  10 NAD-SFC NoSubs
11  4  7  97 10   22.0  0.147   0.632   0.005   411.  135.   -12.9  0.0780  0.32  0.15   1.50  288.0  15.0  284.9  2.0  0  0.00  58.  1004.  10 NAD-SFC NoSubs
11  4  7  97 11  108.0  0.217   1.220   0.005   601.  243.    -8.5  0.0780  0.32  0.14   2.10  279.0  15.0  286.2  2.0  0  0.00  51.  1003.   5 NAD-SFC NoSubs
11  4  7  97 12  109.0  0.359   1.332   0.005   775.  516.   -37.8  0.0780  0.32  0.14   4.10  287.0  15.0  286.2  2.0  0  0.51  53.  1002.   6 NAD-SFC NoSubs
11  4  7  97 13  116.3  0.326   1.453   0.006   942.  447.   -26.5  0.0780  0.32  0.14   3.60  276.0  15.0  287.0  2.0  0  0.25  50.  1000.   5 NAD-SFC NoSubs
11  4  7  97 14  111.8  0.429   1.483   0.007  1043.  675.   -63.2  0.0780  0.32  0.14   5.10  287.0  15.0  286.9  2.0  0  1.02  49.  1000.   4 NAD-SFC NoSubs
11  4  7  97 15   94.7  0.611   1.436   0.008  1115.  1144.  -214.0  0.0780  0.32  0.15   7.70  281.0  15.0  287.1  2.0  0  0.76  46.   999.   4 NAD-SFC NoSubs
11  4  7  97 16   70.4  0.678   1.320   0.009  1165.  1338.  -394.9  0.0780  0.32  0.16   8.70  276.0  15.0  286.8  2.0  0  0.51  45.   999.   3 NAD-SFC NoSubs
11  4  7  97 17   38.2  0.511   1.085   0.008  1190.  907.   -311.4  0.0310  0.32  0.21   7.70  269.0  15.0  286.2  2.0  0  0.25  50.   999.   3 NAD-SFC NoSubs
11  4  7  97 18    3.1  0.403   0.472   0.008  1190.  626.  -1858.6  0.0310  0.32  0.36   6.20  263.0  15.0  284.9  2.0  0  0.00  60.  1000.   3 NAD-SFC NoSubs
11  4  7  97 19  -40.6  0.383  -9.000  -9.000  -999.  570.   123.2  0.0310  0.32  1.00   6.20  260.0  15.0  283.2  2.0  0  0.00  65.  1000.   3 NAD-SFC NoSubs
11  4  7  97 20  -37.4  0.351  -9.000  -9.000  -999.  500.   103.0  0.0310  0.32  1.00   5.70  264.0  15.0  282.0  2.0  0  0.00  70.  1001.   3 NAD-SFC NoSubs
11  4  7  97 21  -33.4  0.313  -9.000  -9.000  -999.  420.    81.5  0.0310  0.32  1.00   5.10  268.0  15.0  281.4  2.0  0  0.00  73.  1001.   3 NAD-SFC NoSubs
11  4  7  97 22  -31.5  0.295  -9.000  -9.000  -999.  384.    72.5  0.0780  0.32  1.00   4.10  273.0  15.0  281.4  2.0  0  0.00  73.  1001.   3 NAD-SFC NoSubs
11  4  7  97 23  -22.2  0.219  -9.000  -9.000  -999.  249.    42.5  0.0780  0.32  1.00   3.10  272.0  15.0  281.2  2.0  0  0.00  73.  1001.   3 NAD-SFC NoSubs
11  4  7  97 24  -15.4  0.181  -9.000  -9.000  -999.  186.    34.6  0.0780  0.32  1.00   2.60  275.0  15.0  281.2  2.0  0  0.00  73.  1001.   3 NAD-SFC NoSubs
11  4  8  98  1  -11.8  0.153  -9.000  -9.000  -999.  143.    26.8  0.0310  0.32  1.00   2.60  259.0  15.0  281.0  2.0  0  0.00  73.  1001.   3 NAD-SFC NoSubs
11  4  8  98  2  -17.1  0.185  -9.000  -9.000  -999.  190.    32.9  0.0310  0.32  1.00   3.10  259.0  15.0  280.8  2.0  0  0.00  72.  1001.   3 NAD-SFC NoSubs
11  4  8  98  3  -11.8  0.153  -9.000  -9.000  -999.  143.    26.8  0.0310  0.32  1.00   2.60  258.0  15.0  280.5  2.0  0  0.00  72.  1000.   3 NAD-SFC NoSubs
11  4  8  98  4   -7.5  0.122  -9.000  -9.000  -999.  102.    21.5  0.0310  0.32  1.00   2.10  256.0  15.0  280.2  2.0  0  0.00  71.  1000.   4 NAD-SFC NoSubs
11  4  8  98  5   -7.5  0.122  -9.000  -9.000  -999.  102.    21.5  0.0310  0.32  1.00   2.10  269.0  15.0  280.1  2.0  0  0.00  70.  1000.   4 NAD-SFC NoSubs
11  4  8  98  6  -14.8  0.182  -9.000  -9.000  -999.  186.    36.4  0.0780  0.32  1.00   2.60  278.0  15.0  279.9  2.0  0  0.00  71.  1001.   5 NAD-SFC NoSubs
11  4  8  98  7    4.6  0.367   0.272   0.005   155.  533.  -952.5  0.1620  0.32  0.36   4.10  320.0  15.0  279.8  2.0  0  0.00  71.  1001.   5 NAD-SFC NoSubs
11  4  8  98  8   37.6  0.347   0.790   0.005   468.  490.   -99.1  0.1620  0.32  0.20   3.60  327.0  15.0  280.2  2.0  0  0.00  68.  1001.   5 NAD-SFC NoSubs
11  4  8  98  9   47.2  0.271   0.936   0.005   620.  341.   -37.6  0.1620  0.32  0.16   2.60  314.0  15.0  281.2  2.0  0  0.25  60.  1002.   8 NAD-SFC NoSubs
11  4  8  98 10   91.7  0.286   1.373   0.005  1008.  366.   -22.7  0.1620  0.32  0.15   2.60  301.0  15.0  282.2  2.0  0  0.00  51.  1001.   5 NAD-SFC NoSubs
11  4  8  98 11  111.8  0.218   1.579   0.005  1258.  246.    -8.3  0.0780  0.32  0.14   2.10  290.0  15.0  283.1  2.0  0  0.00  44.  1001.   4 NAD-SFC NoSubs
11  4  8  98 12  122.2  0.220   1.697   0.005  1429.  248.    -7.8  0.0780  0.32  0.14   2.10  293.0  15.0  284.0  2.0  0  0.00  37.  1000.   3 NAD-SFC NoSubs
11  4  8  98 13  122.2  0.201   1.745   0.005  1555.  216.    -5.9  0.1620  0.32  0.14   1.50  312.0  15.0  284.8  2.0  0  0.00  31.  1000.   3 NAD-SFC NoSubs
11  4  8  98 14  113.5  0.250   1.743   0.005  1664.  301.   -12.3  0.1620  0.32  0.14   2.10  322.0  15.0  285.4  2.0  0  0.00  28.   999.   2 NAD-SFC NoSubs
11  4  8  98 15   95.9  0.286   1.676   0.005  1751.  367.   -21.7  0.0780  0.32  0.15   3.10  287.0  15.0  285.5  2.0  0  0.00  28.   999.   2 NAD-SFC NoSubs
11  4  8  98 16   70.6  0.361   1.536   0.005  1831.  521.   -59.4  0.0310  0.32  0.16   5.10  267.0  15.0  284.9  2.0  0  0.00  32.   999.   3 NAD-SFC NoSubs
11  4  8  98 17   38.4  0.409   1.265   0.005  1876.  627.  -158.5  0.0780  0.32  0.21   5.10  274.0  15.0  284.5  2.0  0  0.00  35.   999.   3 NAD-SFC NoSubs
11  4  8  98 18    3.4  0.207   0.564   0.005  1877.  264.  -233.3  0.0310  0.32  0.36   3.10  257.0  15.0  283.8  2.0  0  0.00  45.  1000.   3 NAD-SFC NoSubs
11  4  8  98 19  -17.0  0.185  -9.000  -9.000  -999.  191.    33.1  0.0310  0.32  1.00   3.10  262.0  15.0  282.9  2.0  0  0.00  50.  1000.   3 NAD-SFC NoSubs
11  4  8  98 20   -9.8  0.144  -9.000  -9.000  -999.  131.    27.1  0.0780  0.32  1.00   2.10  280.0  15.0  282.1  2.0  0  0.00  53.  1001.   3 NAD-SFC NoSubs
11  4  8  98 21   -2.7  0.084  -9.000  -9.000  -999.   59.    19.4  0.0780  0.32  1.00   1.00  298.0  15.0  281.4  2.0  0  0.00  57.  1002.   3 NAD-SFC NoSubs
11  4  8  98 22   -1.1  0.069  -9.000  -9.000  -999.   44.    27.6  0.0460  0.32  1.00   0.50  139.0  15.0  280.6  2.0  0  0.00  61.  1002.   3 NAD-SFC NoSubs
11  4  8  98 23   -8.5  0.130  -9.000  -9.000  -999.  113.    23.2  0.0460  0.32  1.00   2.10  137.0  15.0  279.8  2.0  0  0.00  65.  1002.   3 NAD-SFC NoSubs
11  4  8  98 24   -4.5  0.096  -9.000  -9.000  -999.   72.    17.7  0.0460  0.32  1.00   1.50  128.0  15.0  279.0  2.0  0  0.00  68.  1003.   3 NAD-SFC NoSubs
11  4  9  99  1   -4.5  0.096  -9.000  -9.000  -999.   71.    17.7  0.0460  0.32  1.00   1.50  128.0  15.0  278.5  2.0  0  0.00  69.  1003.   3 NAD-SFC NoSubs
11  4  9  99  2   -4.5  0.096  -9.000  -9.000  -999.   72.    17.7  0.0460  0.32  1.00   1.50  123.0  15.0  278.0  2.0  0  0.00  70.  1003.   3 NAD-SFC NoSubs
11  4  9  99  3   -4.5  0.096  -9.000  -9.000  -999.   72.    17.7  0.0460  0.32  1.00   1.50  134.0  15.0  277.6  2.0  0  0.00  70.  1003.   3 NAD-SFC NoSubs
11  4  9  99  4   -4.5  0.096  -9.000  -9.000  -999.   72.    17.7  0.0460  0.32  1.00   1.50  141.0  15.0  277.4  2.0  0  0.00  70.  1004.   3 NAD-SFC NoSubs
11  4  9  99  5   -2.4  0.078  -9.000  -9.000  -999.   52.    17.8  0.0380  0.32  1.00   1.00  158.0  15.0  277.4  2.0  0  0.00  71.  1004.   3 NAD-SFC NoSubs
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11  4  9  99  6   -1.2  0.073 -9.000 -9.000 -999.   48.     29.1  0.0780  0.32  1.00   0.50  283.0  15.0  277.1  2.0   0  0.00  75.  1005.   3 NAD-SFC NoSubs
11  4  9  99  7    3.9  0.246  0.148  0.005   29.   292.   -337.2  0.1880  0.32  0.35   2.60  332.0  15.0  278.0  2.0   0  0.00  72.  1007.   3 NAD-SFC NoSubs
11  4  9  99  8   39.2  0.358  0.541  0.005  145.   514.   -105.3  0.1880  0.32  0.20   3.60  345.0  15.0  280.4  2.0   0  0.00  54.  1007.   3 NAD-SFC NoSubs
11  4  9  99  9   71.3  0.288  0.856  0.005  317.   374.    -30.2  0.1880  0.32  0.16   2.60  342.0  15.0  281.9  2.0   0  0.00  46.  1008.   3 NAD-SFC NoSubs
11  4  9  99 10   96.7  0.099  1.119  0.005  521.   119.     -1.0  0.1620  0.32  0.15   0.50  327.0  15.0  283.2  2.0   0  0.00  42.  1008.   3 NAD-SFC NoSubs
11  4  9  99 11  114.1  0.074  1.366  0.005  804.    49.     -1.0  0.0310  0.32  0.14   0.50  263.0  15.0  284.5  2.0   0  0.00  38.  1008.   3 NAD-SFC NoSubs
11  4  9  99 12  122.9  0.088  1.623  0.005 1252.    63.     -1.0  0.0780  0.32  0.14   0.50  272.0  15.0  285.8  2.0   0  0.00  34.  1007.   3 NAD-SFC NoSubs
11  4  9  99 13  123.1  0.134  1.741  0.005 1541.   118.     -1.8  0.0780  0.32  0.14   1.00  278.0  15.0  286.8  2.0   0  0.00  30.  1007.   2 NAD-SFC NoSubs
11  4  9  99 14  114.4  0.153  1.769  0.005 1742.   144.     -2.8  0.1620  0.32  0.14   1.00  300.0  15.0  287.8  2.0   0  0.00  26.  1007.   2 NAD-SFC NoSubs
11  4  9  99 15   96.8  0.202  1.694  0.005 1805.   217.     -7.6  0.1880  0.32  0.15   1.50  334.0  15.0  288.2  2.0   0  0.00  23.  1006.   2 NAD-SFC NoSubs
11  4  9  99 16   71.2  0.288  1.539  0.005 1839.   371.    -30.1  0.1880  0.32  0.16   2.60  356.0  15.0  288.5  2.0   0  0.00  23.  1006.   2 NAD-SFC NoSubs
11  4  9  99 17   38.9  0.359  1.262  0.005 1857.   516.   -106.7  0.1900  0.32  0.20   3.60    8.0  15.0  288.4  2.0   0  0.00  25.  1006.   2 NAD-SFC NoSubs
11  4  9  99 18    3.4  0.289  0.562  0.005 1857.   376.   -636.5  0.1900  0.32  0.36   3.10   17.0  15.0  287.6  2.0   0  0.00  35.  1007.   2 NAD-SFC NoSubs
11  4  9  99 19  -21.4  0.223 -9.000 -9.000 -999.   254.    46.3  0.1900  0.32  1.00   2.60   15.0  15.0  286.8  2.0   0  0.00  36.  1008.   2 NAD-SFC NoSubs
11  4  9  99 20 -999.0 -9.000 -9.000 -9.000 -999.  -999. -99999.0  0.0879  0.32  1.00   0.00    0.0  15.0  285.6  2.0   0  0.00  39.  1009.   2 NAD-SFC NoSubs
11  4  9  99 21   -4.1  0.091 -9.000 -9.000 -999.    66.    16.4  0.0310  0.32  1.00   1.50  245.0  15.0  284.2  2.0   0  0.00  45.  1009.   2 NAD-SFC NoSubs
11  4  9  99 22  -12.3  0.155 -9.000 -9.000 -999.   146.    27.1  0.0340  0.32  1.00   2.60  236.0  15.0  282.8  2.0   0  0.00  55.  1010.   2 NAD-SFC NoSubs
11  4  9  99 23   -4.2  0.092 -9.000 -9.000 -999.    68.    16.7  0.0340  0.32  1.00   1.50  216.0  15.0  281.9  2.0   0  0.00  63.  1011.   2 NAD-SFC NoSubs
11  4  9  99 24   -2.4  0.077 -9.000 -9.000 -999.    51.    17.5  0.0330  0.32  1.00   1.00  180.0  15.0  281.4  2.0   0  0.00  66.  1011.   2 NAD-SFC NoSubs
11  4 10 100  1   -2.4  0.077 -9.000 -9.000 -999.    52.    17.6  0.0330  0.32  1.00   1.00  180.0  15.0  281.0  2.0   0  0.00  69.  1011.   2 NAD-SFC NoSubs
11  4 10 100  2   -2.4  0.078 -9.000 -9.000 -999.    53.    17.8  0.0380  0.32  1.00   1.00  164.0  15.0  280.5  2.0   0  0.00  71.  1011.   2 NAD-SFC NoSubs
11  4 10 100  3   -4.6  0.096 -9.000 -9.000 -999.    72.    17.6  0.0460  0.32  1.00   1.50  128.0  15.0  279.8  2.0   0  0.00  73.  1012.   2 NAD-SFC NoSubs
11  4 10 100  4   -8.7  0.130 -9.000 -9.000 -999.   113.    22.9  0.0460  0.32  1.00   2.10  138.0  15.0  279.0  2.0   0  0.00  75.  1012.   2 NAD-SFC NoSubs
11  4 10 100  5   -8.1  0.126 -9.000 -9.000 -999.   107.    22.1  0.0380  0.32  1.00   2.10  164.0  15.0  278.5  2.0   0  0.00  75.  1012.   3 NAD-SFC NoSubs
11  4 10 100  6   -4.3  0.092 -9.000 -9.000 -999.    67.    16.5  0.0330  0.32  1.00   1.50  208.0  15.0  278.2  2.0   0  0.00  77.  1013.   2 NAD-SFC NoSubs
11  4 10 100  7    3.8  0.111  0.140  0.008   26.    88.    -32.4  0.0310  0.32  0.34   1.50  254.0  15.0  278.8  2.0   0  0.00  76.  1014.   2 NAD-SFC NoSubs
11  4 10 100  8   40.0  0.076  0.544  0.007  145.    50.     -1.0  0.0780  0.32  0.20   0.50  276.0  15.0  281.1  2.0   0  0.00  68.  1015.   3 NAD-SFC NoSubs
11  4 10 100  9   71.8 -9.000 -9.000 -9.000  281.  -999. -99999.0  0.0879  0.32  0.16   0.00    0.0  15.0  283.2  2.0   0  0.00  59.  1015.   2 NAD-SFC NoSubs
11  4 10 100 10   97.5 -9.000 -9.000 -9.000  410.  -999. -99999.0  0.0879  0.32  0.15   0.00    0.0  15.0  285.2  2.0   0  0.00  50.  1015.   2 NAD-SFC NoSubs
11  4 10 100 11  115.1 -9.000 -9.000 -9.000  599.  -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  286.9  2.0   0  0.00  43.  1014.   2 NAD-SFC NoSubs
11  4 10 100 12  124.0 -9.000 -9.000 -9.000  804.  -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  288.2  2.0   0  0.00  39.  1014.   2 NAD-SFC NoSubs
11  4 10 100 13  124.1  0.102  1.509  0.005 1003.    78.     -1.0  0.1620  0.32  0.14   0.50  301.0  15.0  289.2  2.0   0  0.00  36.  1013.   2 NAD-SFC NoSubs
11  4 10 100 14  115.3  0.153  1.576  0.005 1226.   144.     -2.8  0.1620  0.32  0.14   1.00  313.0  15.0  290.1  2.0   0  0.00  35.  1012.   2 NAD-SFC NoSubs
11  4 10 100 15   97.7  0.196  1.543  0.006 1356.   208.     -6.9  0.1620  0.32  0.15   1.50  328.0  15.0  290.6  2.0   0  0.00  34.  1011.   2 NAD-SFC NoSubs
11  4 10 100 16   72.2  0.288  1.408  0.007 1397.   371.    -29.9  0.1880  0.32  0.16   2.60  348.0  15.0  291.1  2.0   0  0.00  37.  1011.   2 NAD-SFC NoSubs
11  4 10 100 17   39.8 -9.000 -9.000 -9.000 1418.  -999. -99999.0  0.0879  0.32  0.20   0.00    0.0  15.0  291.0  2.0   0  0.00  37.  1011.   2 NAD-SFC NoSubs
11  4 10 100 18    4.4  0.247  0.556  0.007 1419.   294.   -310.8  0.1900  0.32  0.35   2.60   11.0  15.0  290.4  2.0   0  0.00  43.  1011.   2 NAD-SFC NoSubs
11  4 10 100 19  -13.7  0.177 -9.000 -9.000 -999.   180.    36.2  0.1900  0.32  1.00   2.10   12.0  15.0  289.4  2.0   0  0.00  45.  1012.   2 NAD-SFC NoSubs
11  4 10 100 20   -3.5  0.095 -9.000 -9.000 -999.    73.    22.0  0.1900  0.32  1.00   1.00    4.0  15.0  288.2  2.0   0  0.00  49.  1012.   2 NAD-SFC NoSubs
11  4 10 100 21   -2.3  0.076 -9.000 -9.000 -999.    50.    17.3  0.0310  0.32  1.00   1.00  249.0  15.0  286.9  2.0   0  0.00  54.  1012.   2 NAD-SFC NoSubs
11  4 10 100 22  -17.3  0.185 -9.000 -9.000 -999.   190.    32.8  0.0310  0.32  1.00   3.10  253.0  15.0  285.4  2.0   0  0.00  61.  1013.   2 NAD-SFC NoSubs
11  4 10 100 23  -12.0  0.152 -9.000 -9.000 -999.   143.    26.6  0.0310  0.32  1.00   2.60  262.0  15.0  284.5  2.0   0  0.00  64.  1013.   2 NAD-SFC NoSubs
11  4 10 100 24   -4.1  0.091 -9.000 -9.000 -999.    67.    16.4  0.0310  0.32  1.00   1.50  266.0  15.0  283.9  2.0   0  0.00  67.  1013.   2 NAD-SFC NoSubs
11  4 11 101  1  -20.3  0.214 -9.000 -9.000 -999.   237.    43.4  0.1620  0.32  1.00   2.60  306.0  15.0  283.5  2.0   0  0.00  68.  1013.   2 NAD-SFC NoSubs
11  4 11 101  2  -33.4  0.302 -9.000 -9.000 -999.   398.    74.6  0.1620  0.32  1.00   3.60  320.0  15.0  282.9  2.0   0  0.00  73.  1013.   2 NAD-SFC NoSubs
11  4 11 101  3  -21.6  0.222 -9.000 -9.000 -999.   254.    45.7  0.1880  0.32  1.00   2.60  340.0  15.0  282.5  2.0   0  0.00  78.  1013.   2 NAD-SFC NoSubs
11  4 11 101  4  -13.9  0.176 -9.000 -9.000 -999.   178.    35.7  0.1900  0.32  1.00   2.10    6.0  15.0  282.2  2.0   0  0.00  81.  1013.   2 NAD-SFC NoSubs
11  4 11 101  5   -7.0  0.125 -9.000 -9.000 -999.   107.    25.1  0.1900  0.32  1.00   1.50   24.0  15.0  282.0  2.0   0  0.00  83.  1013.   2 NAD-SFC NoSubs
11  4 11 101  6   -1.1 -9.000 -9.000 -9.000 -999.  -999. -99999.0  0.0879  0.32  1.00   0.00    0.0  15.0  281.8  2.0   0  0.00  84.  1014.   2 NAD-SFC NoSubs
11  4 11 101  7    4.8  0.067  0.204  0.009   63.    42.     -5.7  0.1620  0.32  0.34   0.50  305.0  15.0  281.8  2.0   0  0.00  85.  1014.   2 NAD-SFC NoSubs
11  4 11 101  8   40.3  0.139  0.588  0.008  182.   125.     -6.1  0.1880  0.32  0.20   1.00  340.0  15.0  282.6  2.0   0  0.00  81.  1014.   2 NAD-SFC NoSubs
11  4 11 101  9   72.6 -9.000 -9.000 -9.000  303.  -999. -99999.0  0.0879  0.32  0.16   0.00    0.0  15.0  284.1  2.0   0  0.00  72.  1014.   2 NAD-SFC NoSubs
11  4 11 101 10   98.3 -9.000 -9.000 -9.000  433.  -999. -99999.0  0.0879  0.32  0.15   0.00    0.0  15.0  286.1  2.0   0  0.00  60.  1013.   2 NAD-SFC NoSubs
11  4 11 101 11  115.9 -9.000 -9.000 -9.000  586.  -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  288.1  2.0   0  0.00  50.  1013.   2 NAD-SFC NoSubs
11  4 11 101 12  124.8  0.155  1.358  0.006  724.   147.     -2.7  0.1620  0.32  0.14   1.00  316.0  15.0  289.4  2.0   0  0.00  45.  1011.   2 NAD-SFC NoSubs
11  4 11 101 13  124.8  0.201  1.431  0.006  848.   216.     -5.9  0.1620  0.32  0.14   1.50  329.0  15.0  290.4  2.0   0  0.00  41.  1010.   2 NAD-SFC NoSubs
11  4 11 101 14  115.9  0.258  1.451  0.006  948.   315.    -13.4  0.1880  0.32  0.14   2.10  334.0  15.0  291.0  2.0   0  0.00  40.  1009.   2 NAD-SFC NoSubs
11  4 11 101 15   98.3  0.296  1.408  0.007 1023.   386.    -23.7  0.1880  0.32  0.15   2.60  334.0  15.0  291.2  2.0   0  0.00  40.  1009.   2 NAD-SFC NoSubs
11  4 11 101 16   72.7  0.330  1.294  0.007 1074.   455.    -44.5  0.1880  0.32  0.16   3.10  342.0  15.0  291.2  2.0   0  0.00  41.  1008.   2 NAD-SFC NoSubs
11  4 11 101 17   40.3  0.276  1.072  0.007 1100.   348.    -46.7  0.1880  0.32  0.20   2.60  353.0  15.0  290.9  2.0   0  0.00  49.  1008.   2 NAD-SFC NoSubs
11  4 11 101 18    4.8  0.248  0.528  0.007 1102.   296.   -284.6  0.1900  0.32  0.35   2.60    1.0  15.0  290.4  2.0   0  0.00  51.  1008.   2 NAD-SFC NoSubs
11  4 11 101 19   -6.9  0.125 -9.000 -9.000 -999.   115.    25.3  0.1880  0.32  1.00   1.50  348.0  15.0  289.5  2.0   0  0.00  54.  1008.   2 NAD-SFC NoSubs
11  4 11 101 20   -1.2  0.072 -9.000 -9.000 -999.    47.    28.7  0.0780  0.32  1.00   0.50  296.0  15.0  288.4  2.0   0  0.00  57.  1007.   3 NAD-SFC NoSubs
11  4 11 101 21   -2.2  0.075 -9.000 -9.000 -999.    50.    17.2  0.0310  0.32  1.00   1.00  256.0  15.0  287.2  2.0   0  0.00  62.  1007.   3 NAD-SFC NoSubs
11  4 11 101 22   -4.0  0.090 -9.000 -9.000 -999.    65.    16.5  0.0310  0.32  1.00   1.50  259.0  15.0  286.2  2.0   0  0.00  67.  1007.   3 NAD-SFC NoSubs
11  4 11 101 23   -2.7  0.084 -9.000 -9.000 -999.    58.    19.3  0.0780  0.32  1.00   1.00  295.0  15.0  285.2  2.0   0  0.00  72.  1007.   3 NAD-SFC NoSubs
11  4 11 101 24   -3.3  0.092 -9.000 -9.000 -999.    67.    21.4  0.1620  0.32  1.00   1.00  307.0  15.0  284.4  2.0   0  0.00  76.  1007.   3 NAD-SFC NoSubs
11  4 12 102  1   -6.3  0.120 -9.000 -9.000 -999.   100.    24.6  0.1620  0.32  1.00   1.50  316.0  15.0  283.6  2.0   0  0.00  80.  1007.   4 NAD-SFC NoSubs
11  4 12 102  2  -12.8  0.170 -9.000 -9.000 -999.   168.    34.3  0.1620  0.32  1.00   2.10  328.0  15.0  283.2  2.0   0  0.00  83.  1007.   3 NAD-SFC NoSubs
11  4 12 102  3   -6.9  0.125 -9.000 -9.000 -999.   106.    25.3  0.1880  0.32  1.00   1.50  330.0  15.0  282.8  2.0   0  0.00  85.  1007.   3 NAD-SFC NoSubs
11  4 12 102  4   -3.3  0.093 -9.000 -9.000 -999.    68.    21.4  0.1620  0.32  1.00   1.00  329.0  15.0  282.4  2.0   0  0.00  87.  1007.   3 NAD-SFC NoSubs
11  4 12 102  5   -1.5  0.080 -9.000 -9.000 -999.    54.    31.2  0.1880  0.32  1.00   0.50  331.0  15.0  282.0  2.0   0  0.00  89.  1007.   3 NAD-SFC NoSubs
11  4 12 102  6   -1.5  0.080 -9.000 -9.000 -999.    54.    31.2  0.1880  0.32  1.00   0.50  333.0  15.0  281.6  2.0   0  0.00  91.  1008.   3 NAD-SFC NoSubs
11  4 12 102  7    6.6  0.115  0.212  0.007   52.    94.    -21.0  0.1880  0.32  0.33   1.00  345.0  15.0  282.0  2.0   0  0.00  88.  1008.   3 NAD-SFC NoSubs
11  4 12 102  8   41.9  0.140  0.647  0.006  232.   126.     -5.9  0.1880  0.32  0.20   1.00  351.0  15.0  283.8  2.0   0  0.00  78.  1008.   3 NAD-SFC NoSubs
11  4 12 102  9   73.9 -9.000 -9.000 -9.000  339.  -999. -99999.0  0.0879  0.32  0.16   0.00    0.0  15.0  285.4  2.0   0  0.00  69.  1008.   3 NAD-SFC NoSubs
11  4 12 102 10   99.2 -9.000 -9.000 -9.000  484.  -999. -99999.0  0.0879  0.32  0.15   0.00    0.0  15.0  287.0  2.0   0  0.00  62.  1008.   3 NAD-SFC NoSubs
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11  4 12 102 11  116.5  0.088  1.276  0.005  641.   62.     -1.0  0.0780  0.32  0.14  0.50  289.0  15.0  288.5  2.0  0  0.00  56.  1008.   3 NAD-SFC NoSubs
11  4 12 102 12  125.2  0.088  1.461  0.005  895.   63.     -1.0  0.0780  0.32  0.14  0.50  296.0  15.0  289.8  2.0  0  0.00  52.  1007.   3 NAD-SFC NoSubs
11  4 12 102 13  125.2  0.155  1.534  0.007 1036.  147.     -2.7  0.1620  0.32  0.14  1.00  306.0  15.0  291.0  2.0  0  0.00  48.  1006.   3 NAD-SFC NoSubs
11  4 12 102 14  116.5  0.206  1.538  0.007 1120.  224.     -6.7  0.1880  0.32  0.14  1.50  335.0  15.0  291.9  2.0  0  0.00  44.  1005.   3 NAD-SFC NoSubs
11  4 12 102 15   99.1  0.254  1.485  0.008 1186.  308.    -14.9  0.1880  0.32  0.15  2.10  346.0  15.0  292.4  2.0  0  0.00  42.  1005.   3 NAD-SFC NoSubs
11  4 12 102 16   73.8  0.330  1.364  0.008 1233.  456.    -43.8  0.1880  0.32  0.16  3.10  357.0  15.0  292.8  2.0  0  0.00  41.  1004.   3 NAD-SFC NoSubs
11  4 12 102 17   41.7  0.318  1.136  0.008 1259.  431.    -69.2  0.1900  0.32  0.20  3.10    6.0  15.0  292.5  2.0  0  0.00  41.  1004.   3 NAD-SFC NoSubs
11  4 12 102 18    6.6  0.250  0.614  0.008 1262.  302.   -213.6  0.1900  0.32  0.35  2.60    6.0  15.0  292.1  2.0  0  0.00  49.  1004.   3 NAD-SFC NoSubs
11  4 12 102 19  -21.0  0.223 -9.000 -9.000 -999.  253.    47.4  0.1900  0.32  1.00  2.60   15.0  15.0  291.1  2.0  0  0.00  52.  1005.   3 NAD-SFC NoSubs
11  4 12 102 20   -6.4  0.120 -9.000 -9.000 -999.  105.    24.4  0.1620  0.32  1.00  1.50  302.0  15.0  289.9  2.0  0  0.00  56.  1005.   3 NAD-SFC NoSubs
11  4 12 102 21  -36.9  0.351 -9.000 -9.000 -999.  499.   105.2  0.0310  0.32  1.00  5.70  262.0  15.0  287.8  2.0  0  0.00  64.  1006.   3 NAD-SFC NoSubs
11  4 12 102 22  -48.0  0.453 -9.000 -9.000 -999.  733.   174.3  0.0780  0.32  1.00  6.20  280.0  15.0  285.8  2.0  0  0.00  70.  1007.   3 NAD-SFC NoSubs
11  4 12 102 23  -35.4  0.332 -9.000 -9.000 -999.  470.    93.1  0.0780  0.32  1.00  4.60  298.0  15.0  284.2  2.0  0  0.00  76.  1007.   3 NAD-SFC NoSubs
11  4 12 102 24  -37.0  0.346 -9.000 -9.000 -999.  489.   100.8  0.1620  0.32  1.00  4.10  313.0  15.0  283.5  2.0  0  0.00  78.  1008.   3 NAD-SFC NoSubs
11  4 13 103  1  -27.7  0.258 -9.000 -9.000 -999.  319.    56.0  0.1620  0.32  1.00  3.10  313.0  15.0  283.2  2.0  0  0.00  78.  1009.   3 NAD-SFC NoSubs
11  4 13 103  2  -12.6  0.170 -9.000 -9.000 -999.  171.    35.1  0.1620  0.32  1.00  2.10  302.0  15.0  283.2  2.0  0  0.00  78.  1009.   4 NAD-SFC NoSubs
11  4 13 103  3   -9.2  0.145 -9.000 -9.000 -999.  132.    29.6  0.0780  0.32  1.00  2.10  282.0  15.0  283.1  2.0  0  0.00  78.  1010.   6 NAD-SFC NoSubs
11  4 13 103  4  -10.4  0.186 -9.000 -9.000 -999.  192.    55.2  0.0780  0.32  1.00  2.60  271.0  15.0  282.8  2.0  0  0.00  77.  1010.  10 NAD-SFC NoSubs
11  4 13 103  5  -14.7  0.261 -9.000 -9.000 -999.  320.   108.8  0.0780  0.32  1.00  3.60  284.0  15.0  282.1  2.0  0  0.00  75.  1011.  10 NAD-SFC NoSubs
11  4 13 103  6  -25.7  0.335 -9.000 -9.000 -999.  464.   131.1  0.0780  0.32  1.00  4.60  287.0  15.0  281.2  2.0  0  0.00  74.  1011.   8 NAD-SFC NoSubs
11  4 13 103  7    8.3  0.357  0.459  0.005  421.  512.  -496.3  0.0780  0.32  0.33  4.60  286.0  15.0  281.1  2.0  0  0.00  70.  1012.   5 NAD-SFC NoSubs
11  4 13 103  8   42.5  0.349  0.864  0.005  549.  495.   -90.3  0.1620  0.32  0.20  3.60  309.0  15.0  282.2  2.0  0  0.00  63.  1013.   4 NAD-SFC NoSubs
11  4 13 103  9   73.6  0.280  1.119  0.006  689.  358.   -27.0  0.1620  0.32  0.16  2.60  311.0  15.0  283.2  2.0  0  0.00  57.  1013.   4 NAD-SFC NoSubs
11  4 13 103 10   98.2  0.246  1.287  0.006  785.  294.   -13.8  0.1620  0.32  0.15  2.10  322.0  15.0  284.5  2.0  0  0.00  52.  1013.   4 NAD-SFC NoSubs
11  4 13 103 11  115.0  0.250  1.412  0.006  885.  301.   -12.3  0.1620  0.32  0.14  2.10  320.0  15.0  285.8  2.0  0  0.00  46.  1013.   4 NAD-SFC NoSubs
11  4 13 103 12  125.2  0.293  1.504  0.006  983.  381.   -18.2  0.1620  0.32  0.14  2.60  329.0  15.0  286.8  2.0  0  0.00  41.  1012.   3 NAD-SFC NoSubs
11  4 13 103 13  125.1  0.386  1.547  0.006 1069.  575.   -41.4  0.1880  0.32  0.14  3.60  341.0  15.0  287.8  2.0  0  0.00  38.  1012.   3 NAD-SFC NoSubs
11  4 13 103 14  116.2  0.508  1.543  0.006 1143.  870.  -102.0  0.1880  0.32  0.14  5.10  355.0  15.0  288.2  2.0  0  0.00  38.  1012.   3 NAD-SFC NoSubs
11  4 13 103 15   98.8  0.598  1.487  0.005 1202. 1107.  -194.9  0.1880  0.32  0.15  6.20  355.0  15.0  288.6  2.0  0  0.00  38.  1012.   3 NAD-SFC NoSubs
11  4 13 103 16   72.7  0.721  1.358  0.007 1244. 1467.  -465.9  0.1880  0.32  0.16  7.70  353.0  15.0  288.6  2.0  0  0.00  39.  1012.   4 NAD-SFC NoSubs
11  4 13 103 17   40.4  0.714  1.123  0.007 1265. 1449.  -813.9  0.1880  0.32  0.20  7.70  352.0  15.0  288.1  2.0  0  0.00  45.  1012.   5 NAD-SFC NoSubs
11  4 13 103 18    6.7  0.470  0.618  0.005 1266.  839. -1396.2  0.1880  0.32  0.34  5.10  354.0  15.0  286.8  2.0  0  0.00  60.  1013.   4 NAD-SFC NoSubs
11  4 13 103 19  -41.7  0.405 -9.000 -9.000 -999.  626.   144.3  0.1880  0.32  1.00  4.60  354.0  15.0  285.2  2.0  0  0.00  67.  1014.   4 NAD-SFC NoSubs
11  4 13 103 20  -38.5  0.359 -9.000 -9.000 -999.  519.   108.8  0.1880  0.32  1.00  4.10  354.0  15.0  284.2  2.0  0  0.00  70.  1014.   3 NAD-SFC NoSubs
11  4 13 103 21  -28.8  0.268 -9.000 -9.000 -999.  337.    60.4  0.1880  0.32  1.00  3.10  341.0  15.0  283.6  2.0  0  0.00  70.  1014.   3 NAD-SFC NoSubs
11  4 13 103 22   -3.6  0.095 -9.000 -9.000 -999.  106.    22.0  0.1880  0.32  1.00  1.00  345.0  15.0  283.2  2.0  0  0.00  70.  1015.   2 NAD-SFC NoSubs
11  4 13 103 23   -1.2  0.073 -9.000 -9.000 -999.   48.    29.1  0.0760  0.32  1.00  0.50   87.0  15.0  282.6  2.0  0  0.00  71.  1015.   2 NAD-SFC NoSubs
11  4 13 103 24   -1.1  0.069 -9.000 -9.000 -999.   44.    27.6  0.0460  0.32  1.00  0.50  127.0  15.0  281.9  2.0  0  0.00  74.  1015.   3 NAD-SFC NoSubs
11  4 14 104  1   -2.5  0.079 -9.000 -9.000 -999.   54.    18.1  0.0460  0.32  1.00  1.00  144.0  15.0  281.2  2.0  0  0.00  77.  1015.   3 NAD-SFC NoSubs
11  4 14 104  2   -2.5  0.079 -9.000 -9.000 -999.   54.    18.1  0.0460  0.32  1.00  1.00  125.0  15.0  280.6  2.0  0  0.00  80.  1015.   3 NAD-SFC NoSubs
11  4 14 104  3   -2.6  0.081 -9.000 -9.000 -999.   55.    18.5  0.0510  0.32  1.00  1.00   98.0  15.0  280.1  2.0  0  0.00  82.  1015.   2 NAD-SFC NoSubs
11  4 14 104  4   -1.2  0.074 -9.000 -9.000 -999.   48.    29.2  0.0760  0.32  1.00  0.50   87.0  15.0  279.5  2.0  0  0.00  85.  1015.   2 NAD-SFC NoSubs
11  4 14 104  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  279.0  2.0  0  0.00  87.  1015.   2 NAD-SFC NoSubs
11  4 14 104  6   -1.5  0.080 -9.000 -9.000 -999.   54.    31.2  0.1620  0.32  1.00  0.50  313.0  15.0  278.8  2.0  0  0.00  88.  1016.   2 NAD-SFC NoSubs
11  4 14 104  7    6.9  0.072  0.192  0.005   37.   47.    -5.0  0.1880  0.32  0.32  0.50  332.0  15.0  279.8  2.0  0  0.00  82.  1016.   2 NAD-SFC NoSubs
11  4 14 104  8   42.6  0.088  0.612  0.005  195.   63.    -1.5  0.1620  0.32  0.19  0.50  323.0  15.0  282.2  2.0  0  0.00  68.  1017.   2 NAD-SFC NoSubs
11  4 14 104  9   74.7 -9.000 -9.000 -9.000  584. -999. -99999.0  0.0879  0.32  0.16  0.00    0.0  15.0  283.8  2.0  0  0.00  58.  1017.   2 NAD-SFC NoSubs
11  4 14 104 10  100.0 -9.000 -9.000 -9.000  788. -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0  285.2  2.0  0  0.00  51.  1017.   2 NAD-SFC NoSubs
11  4 14 104 11  117.4 -9.000 -9.000 -9.000  943. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  286.8  2.0  0  0.00  44.  1017.   2 NAD-SFC NoSubs
11  4 14 104 12  126.1  0.102  1.530  0.008 1030.   78.    -1.0  0.1620  0.32  0.14  0.50  306.0  15.0  288.1  2.0  0  0.00  38.  1016.   2 NAD-SFC NoSubs
11  4 14 104 13  126.0  0.201  1.563  0.009 1098.  216.    -5.8  0.1620  0.32  0.14  1.50  306.0  15.0  289.2  2.0  0  0.00  34.  1015.   2 NAD-SFC NoSubs
11  4 14 104 14  117.1  0.251  1.553  0.009 1158.  301.   -12.2  0.1620  0.32  0.14  2.10  320.0  15.0  290.1  2.0  0  0.00  30.  1014.   2 NAD-SFC NoSubs
11  4 14 104 15   99.5  0.296  1.491  0.010 1207.  386.   -23.6  0.1880  0.32  0.15  2.60  335.0  15.0  290.8  2.0  0  0.00  28.  1014.   2 NAD-SFC NoSubs
11  4 14 104 16   73.9  0.372  1.364  0.010 1242.  543.   -62.7  0.1880  0.32  0.16  3.60  341.0  15.0  290.9  2.0  0  0.00  28.  1013.   2 NAD-SFC NoSubs
11  4 14 104 17   41.6  0.359  1.132  0.010 1261.  517.  -100.7  0.1880  0.32  0.20  3.60  338.0  15.0  290.8  2.0  0  0.00  29.  1013.   2 NAD-SFC NoSubs
11  4 14 104 18    6.1  0.206  0.597  0.010 1263.  242.  -130.6  0.1880  0.32  0.34  2.10  341.0  15.0  290.4  2.0  0  0.00  37.  1013.   2 NAD-SFC NoSubs
11  4 14 104 19   -3.3  0.093 -9.000 -9.000 -999.   79.    21.4  0.1620  0.32  1.00  1.00  308.0  15.0  289.5  2.0  0  0.00  39.  1013.   2 NAD-SFC NoSubs
11  4 14 104 20   -2.3  0.076 -9.000 -9.000 -999.   50.    17.3  0.0310  0.32  1.00  1.00  267.0  15.0  288.4  2.0  0  0.00  42.  1013.   2 NAD-SFC NoSubs
11  4 14 104 21   -1.0  0.067 -9.000 -9.000 -999.   41.    26.7  0.0310  0.32  1.00  0.50  250.0  15.0  287.1  2.0  0  0.00  47.  1013.   2 NAD-SFC NoSubs
11  4 14 104 22   -1.0  0.067 -9.000 -9.000 -999.   42.    26.9  0.0330  0.32  1.00  0.50  206.0  15.0  285.8  2.0  0  0.00  53.  1013.   2 NAD-SFC NoSubs
11  4 14 104 23   -1.1  0.068 -9.000 -9.000 -999.   43.    27.3  0.0380  0.32  1.00  0.50  164.0  15.0  284.6  2.0  0  0.00  57.  1013.   2 NAD-SFC NoSubs
11  4 14 104 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  283.8  2.0  0  0.00  60.  1012.   2 NAD-SFC NoSubs
11  4 15 105  1   -1.4  0.079 -9.000 -9.000 -999.   54.    31.1  0.1620  0.32  1.00  0.50  301.0  15.0  283.1  2.0  0  0.00  61.  1012.   2 NAD-SFC NoSubs
11  4 15 105  2   -3.4  0.093 -9.000 -9.000 -999.   68.    21.5  0.1620  0.32  1.00  1.00  308.0  15.0  282.5  2.0  0  0.00  63.  1012.   2 NAD-SFC NoSubs
11  4 15 105  3   -1.5  0.079 -9.000 -9.000 -999.   54.    31.1  0.1620  0.32  1.00  0.50  310.0  15.0  282.0  2.0  0  0.00  65.  1012.   2 NAD-SFC NoSubs
11  4 15 105  4   -1.5  0.079 -9.000 -9.000 -999.   54.    31.1  0.1620  0.32  1.00  0.50  302.0  15.0  281.6  2.0  0  0.00  66.  1012.   2 NAD-SFC NoSubs
11  4 15 105  5   -1.5  0.080 -9.000 -9.000 -999.   54.    31.1  0.1620  0.32  1.00  0.50  305.0  15.0  281.2  2.0  0  0.00  69.  1012.   2 NAD-SFC NoSubs
11  4 15 105  6    3.2 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  280.9  2.0  0  0.00  71.  1012.   2 NAD-SFC NoSubs
11  4 15 105  7    7.8 -9.000 -9.000 -9.000   55. -999. -99999.0  0.0879  0.32  0.32  0.00    0.0  15.0  281.4  2.0  0  0.00  71.  1012.   2 NAD-SFC NoSubs
11  4 15 105  8   43.5 -9.000 -9.000 -9.000  177. -999. -99999.0  0.0879  0.32  0.19  0.00    0.0  15.0  283.8  2.0  0  0.00  63.  1013.   2 NAD-SFC NoSubs
11  4 15 105  9   75.7 -9.000 -9.000 -9.000  318. -999. -99999.0  0.0879  0.32  0.16  0.00    0.0  15.0  285.9  2.0  0  0.00  52.  1012.   2 NAD-SFC NoSubs
11  4 15 105 10  101.0 -9.000 -9.000 -9.000  466. -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0  287.8  2.0  0  0.00  46.  1012.   2 NAD-SFC NoSubs
11  4 15 105 11  118.5  0.088  1.268  0.010  621.   62.    -1.0  0.0780  0.32  0.14  0.50  290.0  15.0  289.8  2.0  0  0.00  41.  1011.   2 NAD-SFC NoSubs
11  4 15 105 12  127.2  0.102  1.362  0.010  716.   78.    -1.0  0.1620  0.32  0.14  0.50  300.0  15.0  291.4  2.0  0  0.00  38.  1010.   2 NAD-SFC NoSubs
11  4 15 105 13  127.1  0.156  1.406  0.011  788.  147.    -2.7  0.1620  0.32  0.14  1.00  308.0  15.0  292.8  2.0  0  0.00  36.  1009.   2 NAD-SFC NoSubs
11  4 15 105 14  118.4  0.206  1.409  0.011  850.  224.    -6.6  0.1880  0.32  0.14  1.50  331.0  15.0  294.0  2.0  0  0.00  35.  1008.   2 NAD-SFC NoSubs
11  4 15 105 15  100.8  0.296  1.360  0.010  899.  387.   -23.2  0.1880  0.32  0.15  2.60  336.0  15.0  294.6  2.0  0  0.00  35.  1008.   2 NAD-SFC NoSubs
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11  4 15 105 16   75.5  0.332  1.253  0.010  936.  458.    -43.4  0.1900  0.32  0.16  3.10    2.0  15.0  296.0  2.0   0  0.00   36.  1007.    2 NAD-SFC NoSubs
11  4 15 105 17   43.2  0.277  1.047  0.010  954.  351.    -44.2  0.1880  0.32  0.20  2.60  357.0  15.0  295.8  2.0   0  0.00   42.  1007.    2 NAD-SFC NoSubs
11  4 15 105 18    7.7  0.209  0.590  0.010  958.  231.   -106.4  0.1880  0.32  0.34  2.10  354.0  15.0  295.5  2.0   0  0.00   47.  1007.    2 NAD-SFC NoSubs
11  4 15 105 19  -12.6  0.170 -9.000 -9.000 -999.  168.     35.1  0.1620  0.32  1.00  2.10  323.0  15.0  294.6  2.0   0  0.00   50.  1007.    3 NAD-SFC NoSubs
11  4 15 105 20  -26.7  0.258 -9.000 -9.000 -999.  315.     58.1  0.1620  0.32  1.00  3.10  324.0  15.0  293.2  2.0   0  0.00   56.  1007.    3 NAD-SFC NoSubs
11  4 15 105 21  -26.8  0.258 -9.000 -9.000 -999.  315.     57.9  0.1620  0.32  1.00  3.10  325.0  15.0  292.0  2.0   0  0.00   62.  1007.    3 NAD-SFC NoSubs
11  4 15 105 22  -19.7  0.214 -9.000 -9.000 -999.  238.     44.7  0.1620  0.32  1.00  2.60  321.0  15.0  290.8  2.0   0  0.00   68.  1007.    3 NAD-SFC NoSubs
11  4 15 105 23   -6.4  0.120 -9.000 -9.000 -999.  104.     24.4  0.1620  0.32  1.00  1.50  325.0  15.0  289.9  2.0   0  0.00   72.  1007.    3 NAD-SFC NoSubs
11  4 15 105 24   -1.4  0.078 -9.000 -9.000 -999.   52.     30.6  0.1620  0.32  1.00  0.50  314.0  15.0  289.2  2.0   0  0.00   75.  1007.    3 NAD-SFC NoSubs
11  4 16 106  1   -1.4  0.079 -9.000 -9.000 -999.   53.     30.9  0.1880  0.32  1.00  0.50  338.0  15.0  289.0  2.0   0  0.00   76.  1007.    3 NAD-SFC NoSubs
11  4 16 106  2   -1.4  0.078 -9.000 -9.000 -999.   52.     30.6  0.1620  0.32  1.00  0.50  327.0  15.0  288.5  2.0   0  0.00   78.  1007.    3 NAD-SFC NoSubs
11  4 16 106  3   -1.4  0.078 -9.000 -9.000 -999.   52.     30.6  0.1620  0.32  1.00  0.50  313.0  15.0  288.2  2.0   0  0.00   81.  1006.    3 NAD-SFC NoSubs
11  4 16 106  4   -1.4  0.078 -9.000 -9.000 -999.   52.     30.6  0.1620  0.32  1.00  0.50  302.0  15.0  287.9  2.0   0  0.00   83.  1006.    3 NAD-SFC NoSubs
11  4 16 106  5   -1.4  0.078 -9.000 -9.000 -999.   52.     30.6  0.1620  0.32  1.00  0.50  305.0  15.0  287.6  2.0   0  0.00   85.  1006.    3 NAD-SFC NoSubs
11  4 16 106  6    4.4 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  0.72  0.00    0.0  15.0  287.2  2.0   0  0.00   86.  1006.    3 NAD-SFC NoSubs
11  4 16 106  7   10.2 -9.000 -9.000 -9.000   99. -999. -99999.0  0.0879  0.32  0.31  0.00    0.0  15.0  287.2  2.0   0  0.00   87.  1006.    3 NAD-SFC NoSubs
11  4 16 106  8   45.7  0.092  0.724  0.007  297.   67.     -1.5  0.1880  0.32  0.19  0.50  343.0  15.0  288.8  2.0   0  0.00   79.  1006.    3 NAD-SFC NoSubs
11  4 16 106  9   77.4  0.096  0.978  0.007  433.   71.     -1.0  0.1620  0.32  0.16  0.50  305.0  15.0  290.0  2.0   0  0.00   73.  1005.    3 NAD-SFC NoSubs
11  4 16 106 10  102.4  0.086  1.170  0.008  560.   61.     -1.0  0.0780  0.32  0.15  0.50  299.0  15.0  291.2  2.0   0  0.00   67.  1004.    3 NAD-SFC NoSubs
11  4 16 106 11  119.6  0.101  1.313  0.008  678.   78.     -1.0  0.1620  0.32  0.14  0.50  311.0  15.0  292.8  2.0   0  0.00   62.  1004.    2 NAD-SFC NoSubs
11  4 16 106 12  128.3  0.156  1.407  0.008  777.  148.     -2.6  0.1620  0.32  0.14  1.00  319.0  15.0  294.2  2.0   0  0.00   57.  1003.    2 NAD-SFC NoSubs
11  4 16 106 13  128.3  0.253  1.459  0.009  866.  306.    -11.3  0.1620  0.32  0.14  2.10  328.0  15.0  295.6  2.0   0  0.00   53.  1002.    2 NAD-SFC NoSubs
11  4 16 106 14  119.5  0.343  1.465  0.009  941.  483.    -30.3  0.1880  0.32  0.14  3.10  345.0  15.0  296.6  2.0   0  0.00   50.  1001.    2 NAD-SFC NoSubs
11  4 16 106 15  101.8  0.422  1.416  0.009  997.  657.    -65.7  0.1880  0.32  0.15  4.10  345.0  15.0  297.0  2.0   0  0.00   49.  1001.    2 NAD-SFC NoSubs
11  4 16 106 16   76.2  0.456  1.302  0.009 1033.  739.   -111.1  0.1880  0.32  0.16  4.60  355.0  15.0  296.9  2.0   0  0.00   52.  1000.    2 NAD-SFC NoSubs
11  4 16 106 17   43.8  0.360  1.089  0.009 1053.  526.    -95.4  0.1880  0.32  0.20  3.60  346.0  15.0  296.2  2.0   0  0.00   61.  1000.    2 NAD-SFC NoSubs
11  4 16 106 18    8.0  0.338  0.619  0.009 1054.  472.   -430.0  0.1880  0.32  0.33  3.60  351.0  15.0  295.1  2.0   0  0.00   70.  1001.    2 NAD-SFC NoSubs
11  4 16 106 19  -36.5  0.346 -9.000 -9.000 -999.  489.    101.6  0.1620  0.32  1.00  4.10  328.0  15.0  293.2  2.0   0  0.00   76.  1001.    2 NAD-SFC NoSubs
11  4 16 106 20  -31.2  0.302 -9.000 -9.000 -999.  400.     79.2  0.1620  0.32  1.00  3.60  329.0  15.0  291.9  2.0   0  0.00   80.  1002.    3 NAD-SFC NoSubs
11  4 16 106 21  -19.6  0.214 -9.000 -9.000 -999.  241.     44.8  0.1620  0.32  1.00  2.60  306.0  15.0  291.2  2.0   0  0.00   81.  1002.    3 NAD-SFC NoSubs
11  4 16 106 22   -9.7  0.144 -9.000 -9.000 -999.  133.     27.5  0.0780  0.32  1.00  2.10  295.0  15.0  290.8  2.0   0  0.00   82.  1002.    3 NAD-SFC NoSubs
11  4 16 106 23   -4.0  0.090 -9.000 -9.000 -999.   66.     16.5  0.0310  0.32  1.00  1.50  268.0  15.0  290.2  2.0   0  0.00   84.  1003.    3 NAD-SFC NoSubs
11  4 16 106 24   -2.7  0.083 -9.000 -9.000 -999.   58.     19.3  0.0780  0.32  1.00  1.00  277.0  15.0  289.6  2.0   0  0.00   86.  1003.    3 NAD-SFC NoSubs
11  4 17 107  1   -1.2  0.072 -9.000 -9.000 -999.   46.     28.7  0.0780  0.32  1.00  0.50  289.0  15.0  289.0  2.0   0  0.00   88.  1003.    3 NAD-SFC NoSubs
11  4 17 107  2   -2.7  0.083 -9.000 -9.000 -999.   58.     19.3  0.0780  0.32  1.00  1.00  299.0  15.0  288.5  2.0   0  0.00   90.  1003.    3 NAD-SFC NoSubs
11  4 17 107  3   -6.4  0.120 -9.000 -9.000 -999.  100.     24.3  0.1620  0.32  1.00  1.50  306.0  15.0  287.9  2.0   0  0.00   93.  1003.    3 NAD-SFC NoSubs
11  4 17 107  4   -5.1  0.104 -9.000 -9.000 -999.   81.     20.0  0.0780  0.32  1.00  1.50  297.0  15.0  287.2  2.0   0  0.00   95.  1003.    3 NAD-SFC NoSubs
11  4 17 107  5   -6.4  0.120 -9.000 -9.000 -999.  100.     24.3  0.1620  0.32  1.00  1.50  300.0  15.0  286.9  2.0   0  0.00   97.  1003.    3 NAD-SFC NoSubs
11  4 17 107  6   -4.9  0.104 -9.000 -9.000 -999.   80.     20.3  0.0780  0.32  0.71  1.50  299.0  15.0  286.8  2.0   0  0.00   97.  1004.    4 NAD-SFC NoSubs
11  4 17 107  7   11.6  0.159  0.354  0.006  137.  152.    -31.2  0.1620  0.32  0.31  1.50  306.0  15.0  286.9  2.0   0  0.00   96.  1004.    4 NAD-SFC NoSubs
11  4 17 107  8   46.1  0.186  0.738  0.006  312.  192.    -12.5  0.1880  0.32  0.19  1.50  330.0  15.0  287.5  2.0   0  0.00   92.  1004.    4 NAD-SFC NoSubs
11  4 17 107  9   76.9  0.197  0.991  0.007  453.  209.     -8.8  0.1880  0.32  0.16  1.50  347.0  15.0  288.2  2.0   0  0.00   86.  1004.    4 NAD-SFC NoSubs
11  4 17 107 10  101.2  0.156  1.183  0.008  586.  148.     -3.3  0.1880  0.32  0.14  1.00  336.0  15.0  289.0  2.0   0  0.00   82.  1004.    4 NAD-SFC NoSubs
11  4 17 107 11  119.5  0.101  1.331  0.009  707.   78.     -1.0  0.1620  0.32  0.14  0.50  319.0  15.0  290.0  2.0   0  0.00   77.  1004.    3 NAD-SFC NoSubs
11  4 17 107 12  128.1 -9.000 -9.000 -9.000  811. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  291.9  2.0   0  0.00   69.  1003.    3 NAD-SFC NoSubs
11  4 17 107 13  128.1 -9.000 -9.000 -9.000  904. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  293.8  2.0   0  0.00   63.  1002.    3 NAD-SFC NoSubs
11  4 17 107 14  119.4 -9.000 -9.000 -9.000  979. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  295.0  2.0   0  0.00   58.  1001.    3 NAD-SFC NoSubs
11  4 17 107 15  100.8  0.156  1.423  0.011 1020.  148.     -3.3  0.1880  0.32  0.15  1.00  352.0  15.0  296.0  2.0   0  0.00   55.  1000.    4 NAD-SFC NoSubs
11  4 17 107 16   76.1  0.331  1.308  0.011 1050.  458.    -42.6  0.1880  0.32  0.16  3.10  349.0  15.0  296.2  2.0   0  0.00   55.  1000.    4 NAD-SFC NoSubs
11  4 17 107 17   44.7  0.361  1.101  0.011 1066.  520.    -93.7  0.1880  0.32  0.20  3.60  352.0  15.0  295.8  2.0   0  0.00   65.  1000.    4 NAD-SFC NoSubs
11  4 17 107 18    9.8  0.428  0.665  0.011 1067.  671.   -709.0  0.1880  0.32  0.33  4.60  343.0  15.0  293.9  2.0   0  0.00   74.  1000.    4 NAD-SFC NoSubs
11  4 17 107 19  -34.0  0.360 -9.000 -9.000 -999.  522.    122.6  0.1880  0.32  1.00  4.10  337.0  15.0  292.0  2.0   0  0.00   80.  1001.    5 NAD-SFC NoSubs
11  4 17 107 20  -28.0  0.315 -9.000 -9.000 -999.  425.     99.7  0.1880  0.32  1.00  3.60  340.0  15.0  290.9  2.0   0  0.00   83.  1001.    6 NAD-SFC NoSubs
11  4 17 107 21  -24.0  0.269 -9.000 -9.000 -999.  336.     72.7  0.1880  0.32  1.00  3.10  339.0  15.0  290.2  2.0   0  0.00   84.  1001.    6 NAD-SFC NoSubs
11  4 17 107 22  -20.0  0.223 -9.000 -9.000 -999.  254.     49.5  0.1880  0.32  1.00  2.60  335.0  15.0  289.8  2.0   0  0.00   86.  1002.    5 NAD-SFC NoSubs
11  4 17 107 23  -20.1  0.223 -9.000 -9.000 -999.  253.     49.4  0.1880  0.32  1.00  2.60  332.0  15.0  289.2  2.0   0  0.00   86.  1002.    5 NAD-SFC NoSubs
11  4 17 107 24  -12.9  0.177 -9.000 -9.000 -999.  179.     38.5  0.1880  0.32  1.00  2.10  335.0  15.0  289.0  2.0   0  0.00   87.  1002.    5 NAD-SFC NoSubs
11  4 18 108  1  -12.5  0.178 -9.000 -9.000 -999.  180.     40.0  0.1880  0.32  1.00  2.10  339.0  15.0  288.9  2.0   0  0.00   87.  1002.    6 NAD-SFC NoSubs
11  4 18 108  2   -5.6  0.120 -9.000 -9.000 -999.  100.     27.2  0.1620  0.32  1.00  1.50  329.0  15.0  288.8  2.0   0  0.00   87.  1002.    7 NAD-SFC NoSubs
11  4 18 108  3   -5.4  0.120 -9.000 -9.000 -999.  100.     28.7  0.1620  0.32  1.00  1.50  318.0  15.0  288.5  2.0   0  0.00   86.  1002.    8 NAD-SFC NoSubs
11  4 18 108  4  -10.8  0.172 -9.000 -9.000 -999.  172.     42.3  0.1620  0.32  1.00  2.10  307.0  15.0  288.2  2.0   0  0.00   86.  1002.    8 NAD-SFC NoSubs
11  4 18 108  5  -17.7  0.216 -9.000 -9.000 -999.  241.     50.9  0.1620  0.32  1.00  2.60  314.0  15.0  288.0  2.0   0  0.00   86.  1002.    7 NAD-SFC NoSubs
11  4 18 108  6  -11.7  0.171 -9.000 -9.000 -999.  170.     38.1  0.1620  0.32  0.69  2.10  308.0  15.0  287.9  2.0   0  0.00   87.  1002.    6 NAD-SFC NoSubs
11  4 18 108  7   12.2  0.208  0.445  0.005  258.  228.    -65.9  0.1620  0.32  0.31  2.10  325.0  15.0  287.8  2.0   0  0.00   88.  1003.    6 NAD-SFC NoSubs
11  4 18 108  8   45.7  0.278  0.803  0.005  405.  352.    -42.2  0.1880  0.32  0.19  2.60  342.0  15.0  287.8  2.0   0  0.00   86.  1003.    5 NAD-SFC NoSubs
11  4 18 108  9   75.1  0.248  1.100  0.006  633.  296.    -18.1  0.1880  0.32  0.15  2.10  338.0  15.0  287.9  2.0   0  0.00   83.  1003.    5 NAD-SFC NoSubs
11  4 18 108 10  101.6  0.203  1.304  0.008  780.  220.     -7.3  0.1880  0.32  0.14  1.50  344.0  15.0  288.2  2.0   0  0.00   79.  1003.    4 NAD-SFC NoSubs
11  4 18 108 11  118.2  0.105  1.445  0.010  915.   86.     -1.0  0.1880  0.32  0.14  0.50  354.0  15.0  289.0  2.0   0  0.00   75.  1003.    4 NAD-SFC NoSubs
11  4 18 108 12  128.3 -9.000 -9.000 -9.000 1001. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  290.6  2.0   0  0.00   68.  1003.    3 NAD-SFC NoSubs
11  4 18 108 13  128.1  0.098  1.555  0.010 1051.   73.     -1.0  0.1280  0.32  0.14  0.50   45.0  15.0  291.8  2.0   0  0.00   64.  1002.    3 NAD-SFC NoSubs
11  4 18 108 14  117.7  0.096  1.533  0.010 1095.   72.     -1.0  0.1280  0.32  0.14  0.50   35.0  15.0  293.1  2.0   0  0.00   58.  1002.    4 NAD-SFC NoSubs
11  4 18 108 15  100.7  0.203  1.472  0.010 1132.  220.     -7.4  0.1900  0.32  0.15  1.50   24.0  15.0  294.1  2.0   0  0.00   55.  1001.    4 NAD-SFC NoSubs
11  4 18 108 16   76.0  0.290  1.351  0.010 1158.  375.    -28.7  0.1900  0.32  0.16  2.60   15.0  15.0  294.5  2.0   0  0.00   53.  1001.    4 NAD-SFC NoSubs
11  4 18 108 17   44.8  0.362  1.137  0.009 1173.  522.    -94.3  0.1900  0.32  0.20  3.60   11.0  15.0  294.4  2.0   0  0.00   56.  1001.    4 NAD-SFC NoSubs
11  4 18 108 18   10.6  0.298  0.704  0.009 1176.  392.   -222.9  0.1900  0.32  0.33  3.10   25.0  15.0  293.9  2.0   0  0.00   65.  1001.    5 NAD-SFC NoSubs
11  4 18 108 19  -29.7  0.315 -9.000 -9.000 -999.  425.     94.2  0.1900  0.32  1.00  3.60    9.0  15.0  292.8  2.0   0  0.00   69.  1002.    5 NAD-SFC NoSubs
11  4 18 108 20  -22.0  0.270 -9.000 -9.000 -999.  337.     79.7  0.1880  0.32  1.00  3.10  349.0  15.0  291.8  2.0   0  0.00   73.  1002.    7 NAD-SFC NoSubs
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11  4 18 108 21  -24.9  0.304 -9.000 -9.000 -999.  402.    100.9  0.1620  0.32  1.00  3.60  319.0  15.0  290.9  2.0  0  0.00  79.  1003.   7 NAD-SFC NoSubs
11  4 18 108 22  -14.3  0.262 -9.000 -9.000 -999.  323.    113.2  0.1620  0.32  1.00  3.10  309.0  15.0  290.2  2.0  0  0.00  81.  1003.  10 NAD-SFC NoSubs
11  4 18 108 23  -14.3  0.262 -9.000 -9.000 -999.  323.    113.0  0.1620  0.32  1.00  3.10  303.0  15.0  289.8  2.0  0  0.00  82.  1004.  10 NAD-SFC NoSubs
11  4 18 108 24  -12.2  0.223 -9.000 -9.000 -999.  254.     81.8  0.0780  0.32  1.00  3.10  280.0  15.0  289.2  2.0  0  0.00  83.  1003.  10 NAD-SFC NoSubs
11  4 19 109  1  -12.2  0.223 -9.000 -9.000 -999.  253.     81.6  0.0780  0.32  1.00  3.10  275.0  15.0  288.8  2.0  0  0.00  84.  1003.  10 NAD-SFC NoSubs
11  4 19 109  2  -10.3  0.189 -9.000 -9.000 -999.  197.     58.2  0.0310  0.32  1.00  3.10  269.0  15.0  288.5  2.0  0  0.00  83.  1003.  10 NAD-SFC NoSubs
11  4 19 109  3   -8.6  0.157 -9.000 -9.000 -999.  149.     40.1  0.0310  0.32  1.00  2.60  269.0  15.0  288.5  2.0  0  0.00  83.  1003.  10 NAD-SFC NoSubs
11  4 19 109  4  -10.2  0.186 -9.000 -9.000 -999.  192.     56.4  0.0780  0.32  1.00  2.60  280.0  15.0  288.5  2.0  0  0.00  82.  1003.  10 NAD-SFC NoSubs
11  4 19 109  5   -7.3  0.148 -9.000 -9.000 -999.  137.     39.9  0.0780  0.32  1.00  2.10  290.0  15.0  288.4  2.0  0  0.00  83.  1003.  10 NAD-SFC NoSubs
11  4 19 109  6   -7.2  0.148 -9.000 -9.000 -999.  137.     40.1  0.0780  0.32  0.68  2.10  295.0  15.0  288.2  2.0  0  0.00  83.  1003.  10 NAD-SFC NoSubs
11  4 19 109  7    1.3  0.122  0.161  0.005  111.  102.   -120.5  0.0780  0.32  0.30  1.50  276.0  15.0  288.2  2.0  0  0.00  83.  1004.  10 NAD-SFC NoSubs
11  4 19 109  8   10.3  0.102  0.403  0.005  228.   78.     -9.3  0.0780  0.32  0.19  1.00  295.0  15.0  288.4  2.0  0  0.00  83.  1004.  10 NAD-SFC NoSubs
11  4 19 109  9   53.2  0.091  0.970  0.005  614.   66.     -1.3  0.1620  0.32  0.15  0.50  313.0  15.0  288.8  2.0  0  0.00  78.  1004.   8 NAD-SFC NoSubs
11  4 19 109 10  102.5 -9.000 -9.000 -9.000  753. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  289.9  2.0  0  0.00  71.  1004.   4 NAD-SFC NoSubs
11  4 19 109 11  120.6 -9.000 -9.000 -9.000  858. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  290.8  2.0  0  0.00  68.  1004.   3 NAD-SFC NoSubs
11  4 19 109 12  129.0 -9.000 -9.000 -9.000  960. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  291.9  2.0  0  0.00  63.  1003.   3 NAD-SFC NoSubs
11  4 19 109 13  128.8 -9.000 -9.000 -9.000 1060. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  293.0  2.0  0  0.00  58.  1002.   3 NAD-SFC NoSubs
11  4 19 109 14  119.9  0.206  1.568  0.008 1148.  225.     -6.5  0.1880  0.32  0.14  1.50  346.0  15.0  294.0  2.0  0  0.00  54.  1001.   3 NAD-SFC NoSubs
11  4 19 109 15  102.5 -9.000 -9.000 -9.000 1218. -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0  294.5  2.0  0  0.00  52.  1001.   3 NAD-SFC NoSubs
11  4 19 109 16   77.1  0.332  1.399  0.008 1267.  460.    -42.5  0.1900  0.32  0.16  3.10    8.0  15.0  294.5  2.0  0  0.00  53.  1000.   3 NAD-SFC NoSubs
11  4 19 109 17   45.2  0.258  1.179  0.009 1295.  317.    -33.8  0.1280  0.32  0.19  2.60   30.0  15.0  294.2  2.0  0  0.00  61.  1000.   3 NAD-SFC NoSubs
11  4 19 109 18    9.9  0.235  0.712  0.009 1299.  274.   -117.1  0.1280  0.32  0.32  2.60   46.0  15.0  293.6  2.0  0  0.00  65.  1001.   3 NAD-SFC NoSubs
11  4 19 109 19   -4.8  0.103 -9.000 -9.000 -999.   92.     20.3  0.0760  0.32  1.00  1.50   63.0  15.0  292.9  2.0  0  0.00  66.  1001.   4 NAD-SFC NoSubs
11  4 19 109 20   -3.9  0.090 -9.000 -9.000 -999.   64.     16.7  0.0310  0.32  1.00  1.50  248.0  15.0  292.1  2.0  0  0.00  69.  1002.   4 NAD-SFC NoSubs
11  4 19 109 21  -29.5  0.295 -9.000 -9.000 -999.  385.     77.8  0.0780  0.32  1.00  4.10  275.0  15.0  290.2  2.0  0  0.00  74.  1002.   4 NAD-SFC NoSubs
11  4 19 109 22  -21.9  0.217 -9.000 -9.000 -999.  245.     41.9  0.0310  0.32  1.00  3.60  264.0  15.0  288.2  2.0  0  0.00  80.  1002.   4 NAD-SFC NoSubs
11  4 19 109 23  -22.0  0.217 -9.000 -9.000 -999.  243.     41.7  0.0310  0.32  1.00  3.60  260.0  15.0  287.1  2.0  0  0.00  82.  1003.   4 NAD-SFC NoSubs
11  4 19 109 24  -22.0  0.217 -9.000 -9.000 -999.  243.     41.6  0.0310  0.32  1.00  3.60  259.0  15.0  286.2  2.0  0  0.00  84.  1003.   4 NAD-SFC NoSubs
11  4 20 110  1  -21.0  0.217 -9.000 -9.000 -999.  243.     43.8  0.0310  0.32  1.00  3.60  269.0  15.0  285.8  2.0  0  0.00  86.  1003.   5 NAD-SFC NoSubs
11  4 20 110  2  -15.8  0.186 -9.000 -9.000 -999.  192.     36.3  0.0310  0.32  1.00  3.10  268.0  15.0  285.2  2.0  0  0.00  86.  1004.   6 NAD-SFC NoSubs
11  4 20 110  3  -13.8  0.183 -9.000 -9.000 -999.  188.     40.0  0.0780  0.32  1.00  2.60  279.0  15.0  284.9  2.0  0  0.00  86.  1004.   7 NAD-SFC NoSubs
11  4 20 110  4   -9.2  0.145 -9.000 -9.000 -999.  133.     29.7  0.0780  0.32  1.00  2.10  293.0  15.0  284.8  2.0  0  0.00  83.  1004.   6 NAD-SFC NoSubs
11  4 20 110  5   -5.0  0.104 -9.000 -9.000 -999.   81.     20.2  0.0780  0.32  1.00  1.50  295.0  15.0  284.8  2.0  0  0.00  81.  1005.   4 NAD-SFC NoSubs
11  4 20 110  6   -9.7  0.144 -9.000 -9.000 -999.  131.     27.6  0.0780  0.32  0.66  2.10  294.0  15.0  284.9  2.0  0  0.00  77.  1005.   3 NAD-SFC NoSubs
11  4 20 110  7   12.7  0.182  0.335  0.008  105.  186.    -42.5  0.0780  0.32  0.30  2.10  279.0  15.0  285.1  2.0  0  0.00  70.  1006.   3 NAD-SFC NoSubs
11  4 20 110  8   47.4  0.078  0.648  0.008  206.   59.     -1.0  0.0780  0.32  0.19  0.50  288.0  15.0  286.1  2.0  0  0.00  63.  1006.   2 NAD-SFC NoSubs
11  4 20 110  9   79.2 -9.000 -9.000 -9.000  347. -999. -99999.0  0.0879  0.32  0.15  0.00    0.0  15.0  288.2  2.0  0  0.00  59.  1006.   2 NAD-SFC NoSubs
11  4 20 110 10  104.3 -9.000 -9.000 -9.000  479. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  290.2  2.0  0  0.00  54.  1005.   2 NAD-SFC NoSubs
11  4 20 110 11  121.5 -9.000 -9.000 -9.000  600. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  292.2  2.0  0  0.00  43.  1005.   2 NAD-SFC NoSubs
11  4 20 110 12  129.9 -9.000 -9.000 -9.000  737. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  294.0  2.0  0  0.00  36.  1004.   3 NAD-SFC NoSubs
11  4 20 110 13  129.8 -9.000 -9.000 -9.000  876. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  295.5  2.0  0  0.00  33.  1004.   3 NAD-SFC NoSubs
11  4 20 110 14  121.0 -9.000 -9.000 -9.000  988. -999. -99999.0  0.0879  0.32  0.14  0.00    0.0  15.0  296.8  2.0  0  0.00  32.  1003.   3 NAD-SFC NoSubs
11  4 20 110 15  103.6  0.172  1.457  0.008 1067.  171.     -4.4  0.0780  0.32  0.15  1.50  293.0  15.0  297.5  2.0  0  0.00  33.  1002.   3 NAD-SFC NoSubs
11  4 20 110 16   78.4  0.386  1.349  0.008 1122.  576.    -65.7  0.0780  0.32  0.16  4.60  283.0  15.0  297.8  2.0  0  0.00  38.  1002.   3 NAD-SFC NoSubs
11  4 20 110 17   46.3  0.306  1.142  0.009 1150.  410.    -55.3  0.0780  0.32  0.19  3.60  292.0  15.0  296.8  2.0  0  0.00  53.  1002.   3 NAD-SFC NoSubs
11  4 20 110 18   10.6  0.359  0.700  0.009 1153.  515.   -388.4  0.0780  0.32  0.32  4.60  289.0  15.0  294.9  2.0  0  0.00  62.  1003.   3 NAD-SFC NoSubs
11  4 20 110 19  -38.2  0.370 -9.000 -9.000 -999.  540.    118.8  0.0780  0.32  1.00  5.10  293.0  15.0  292.2  2.0  0  0.00  71.  1004.   3 NAD-SFC NoSubs
11  4 20 110 20  -33.3  0.333 -9.000 -9.000 -999.  462.     99.0  0.0780  0.32  1.00  4.60  286.0  15.0  290.4  2.0  0  0.00  77.  1004.   4 NAD-SFC NoSubs
11  4 20 110 21  -30.5  0.303 -9.000 -9.000 -999.  400.     81.6  0.1620  0.32  1.00  3.60  302.0  15.0  289.2  2.0  0  0.00  81.  1005.   4 NAD-SFC NoSubs
11  4 20 110 22  -26.1  0.259 -9.000 -9.000 -999.  316.     59.5  0.1620  0.32  1.00  3.10  318.0  15.0  288.8  2.0  0  0.00  82.  1006.   4 NAD-SFC NoSubs
11  4 20 110 23  -20.2  0.224 -9.000 -9.000 -999.  254.     49.6  0.1900  0.32  1.00  2.60   11.0  15.0  288.6  2.0  0  0.00  83.  1006.   5 NAD-SFC NoSubs
11  4 20 110 24  -11.4  0.161 -9.000 -9.000 -999.  156.     32.7  0.1280  0.32  1.00  2.10   55.0  15.0  288.4  2.0  0  0.00  84.  1006.   4 NAD-SFC NoSubs
11  4 21 111  1   -2.6  0.082 -9.000 -9.000 -999.   59.     19.1  0.0760  0.32  1.00  1.00   60.0  15.0  288.2  2.0  0  0.00  85.  1006.   4 NAD-SFC NoSubs
11  4 21 111  2   -2.5  0.081 -9.000 -9.000 -999.   55.     19.0  0.0760  0.32  1.00  1.00   75.0  15.0  287.8  2.0  0  0.00  88.  1006.   5 NAD-SFC NoSubs
11  4 21 111  3   -2.4  0.079 -9.000 -9.000 -999.   54.     18.8  0.0760  0.32  1.00  1.00   73.0  15.0  287.5  2.0  0  0.00  91.  1006.   6 NAD-SFC NoSubs
11  4 21 111  4   -1.0  0.067 -9.000 -9.000 -999.   42.     27.2  0.0760  0.32  1.00  0.50   66.0  15.0  287.2  2.0  0  0.00  93.  1006.   6 NAD-SFC NoSubs
11  4 21 111  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00    0.0  15.0  287.0  2.0  0  0.00  94.  1006.   6 NAD-SFC NoSubs
11  4 21 111  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  0.65  0.00    0.0  15.0  286.5  2.0  0  0.00  95.  1007.   7 NAD-SFC NoSubs
11  4 21 111  7   12.6  0.140  0.418  0.005  208.  126.    -19.6  0.0780  0.32  0.29  1.50  287.0  15.0  286.9  2.0  0  0.00  87.  1007.   7 NAD-SFC NoSubs
11  4 21 111  8   40.4  0.348  0.773  0.005  410.  493.    -93.7  0.1620  0.32  0.19  3.60  309.0  15.0  288.2  2.0  0  0.00  75.  1007.   7 NAD-SFC NoSubs
11  4 21 111  9   65.1  0.318  0.992  0.005  538.  430.    -44.2  0.1620  0.32  0.15  3.10  317.0  15.0  289.6  2.0  0  0.00  69.  1007.   7 NAD-SFC NoSubs
11  4 21 111 10   25.0  0.308  0.740  0.005  580.  411.   -105.2  0.1880  0.32  0.14  3.10  334.0  15.0  290.4  2.0  0  0.00  64.  1007.  10 NAD-SFC NoSubs
11  4 21 111 11   29.4  0.311  0.800  0.005  626.  416.    -92.0  0.1880  0.32  0.14  3.10  330.0  15.0  291.1  2.0  0  0.00  60.  1007.  10 NAD-SFC NoSubs
11  4 21 111 12  116.1  0.291  1.356  0.005  771.  378.    -19.1  0.1620  0.32  0.14  2.60  326.0  15.0  292.0  2.0  0  0.00  54.  1006.   6 NAD-SFC NoSubs
11  4 21 111 13  123.4  0.344  1.455  0.005  897.  484.    -29.6  0.1880  0.32  0.14  3.10  343.0  15.0  292.5  2.0  0  0.00  49.  1006.   5 NAD-SFC NoSubs
11  4 21 111 14  114.8  0.493  1.484  0.005 1022.  831.    -93.6  0.1620  0.32  0.14  5.10  328.0  15.0  292.4  2.0  0  0.00  50.  1006.   5 NAD-SFC NoSubs
11  4 21 111 15   98.3  0.504  1.470  0.005 1161.  860.   -117.2  0.1880  0.32  0.15  5.10  333.0  15.0  292.6  2.0  0  0.00  50.  1006.   5 NAD-SFC NoSubs
11  4 21 111 16   76.6  0.549  1.390  0.005 1257.  976.   -194.0  0.1880  0.32  0.16  5.70  339.0  15.0  292.1  2.0  0  0.00  52.  1005.   4 NAD-SFC NoSubs
11  4 21 111 17   45.4  0.540  1.182  0.005 1308.  953.   -311.2  0.1880  0.32  0.19  5.70  344.0  15.0  291.2  2.0  0  0.00  56.  1006.   3 NAD-SFC NoSubs
11  4 21 111 18   10.0  0.340  0.716  0.005 1317.  512.   -351.5  0.1880  0.32  0.32  3.60  344.0  15.0  290.2  2.0  0  0.00  65.  1006.   3 NAD-SFC NoSubs
11  4 21 111 19  -28.1  0.268 -9.000 -9.000 -999.  337.     61.6  0.1880  0.32  0.73  3.10  333.0  15.0  288.9  2.0  0  0.00  69.  1006.   3 NAD-SFC NoSubs
11  4 21 111 20  -19.8  0.214 -9.000 -9.000 -999.  239.     44.5  0.1620  0.32  1.00  2.60  318.0  15.0  288.2  2.0  0  0.00  69.  1006.   3 NAD-SFC NoSubs
11  4 21 111 21   -5.1  0.104 -9.000 -9.000 -999.   88.     20.0  0.0780  0.32  1.00  1.50  289.0  15.0  287.8  2.0  0  0.00  69.  1005.   3 NAD-SFC NoSubs
11  4 21 111 22   -4.0  0.090 -9.000 -9.000 -999.   65.     16.5  0.0310  0.32  1.00  1.50  250.0  15.0  287.0  2.0  0  0.00  71.  1005.   3 NAD-SFC NoSubs
11  4 21 111 23   -4.1  0.092 -9.000 -9.000 -999.   67.     16.8  0.0340  0.32  1.00  1.50  239.0  15.0  286.1  2.0  0  0.00  74.  1005.   3 NAD-SFC NoSubs
11  4 21 111 24   -4.1  0.091 -9.000 -9.000 -999.   66.     16.4  0.0310  0.32  1.00  1.50  247.0  15.0  285.2  2.0  0  0.00  77.  1005.   2 NAD-SFC NoSubs
11  4 22 112  1   -2.7  0.084 -9.000 -9.000 -999.   58.     19.3  0.0780  0.32  1.00  1.00  280.0  15.0  284.6  2.0  0  0.00  78.  1005.   3 NAD-SFC NoSubs
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11  4 22 112  2   -3.5  0.095 -9.000 -9.000 -999.   70.     21.9  0.1880  0.32  1.00  1.00 330.0  15.0 284.0  2.0    0  0.00   80. 1005.    3 NAD-SFC NoSubs
11  4 22 112  3   -3.5  0.095 -9.000 -9.000 -999.   70.     21.9  0.1880  0.32  1.00  1.00 336.0  15.0 283.4  2.0    0  0.00   83. 1005.    3 NAD-SFC NoSubs
11  4 22 112  4   -3.3  0.093 -9.000 -9.000 -999.   68.     21.4  0.1620  0.32  1.00  1.00 317.0  15.0 282.9  2.0    0  0.00   84. 1005.    3 NAD-SFC NoSubs
11  4 22 112  5   -6.5  0.120 -9.000 -9.000 -999.  100.     24.2  0.1620  0.32  1.00  1.50 310.0  15.0 282.5  2.0    0  0.00   83. 1005.    3 NAD-SFC NoSubs
11  4 22 112  6   -9.7  0.144 -9.000 -9.000 -999.  131.     27.7  0.0780  0.32  0.64  2.10 297.0  15.0 282.1  2.0    0  0.00   82. 1006.    3 NAD-SFC NoSubs
11  4 22 112  7   13.8  0.210  0.297  0.005   68.  230.    -60.0  0.1620  0.32  0.29  2.10 325.0  15.0 282.5  2.0    0  0.00   76. 1007.    3 NAD-SFC NoSubs
11  4 22 112  8   49.1  0.238  0.673  0.005  223.  278.    -24.6  0.1880  0.32  0.18  2.10 341.0  15.0 284.1  2.0    0  0.00   63. 1007.    3 NAD-SFC NoSubs
11  4 22 112  9   80.3 -9.000 -9.000 -9.000  399. -999. -99999.0  0.0879  0.32  0.15  0.00   0.0  15.0 285.8  2.0    0  0.00   55. 1007.    3 NAD-SFC NoSubs
11  4 22 112 10  104.8 -9.000 -9.000 -9.000  610. -999. -99999.0  0.0879  0.32  0.14  0.00   0.0  15.0 287.2  2.0    0  0.00   50. 1007.    2 NAD-SFC NoSubs
11  4 22 112 11  121.8 -9.000 -9.000 -9.000  915. -999. -99999.0  0.0879  0.32  0.14  0.00   0.0  15.0 288.8  2.0    0  0.00   45. 1006.    2 NAD-SFC NoSubs
11  4 22 112 12  130.0 -9.000 -9.000 -9.000 1039. -999. -99999.0  0.0879  0.32  0.14  0.00   0.0  15.0 289.9  2.0    0  0.00   41. 1005.    2 NAD-SFC NoSubs
11  4 22 112 13  129.6 -9.000 -9.000 -9.000 1115. -999. -99999.0  0.0879  0.32  0.14  0.00   0.0  15.0 290.8  2.0    0  0.00   38. 1005.    2 NAD-SFC NoSubs
11  4 22 112 14  120.6 -9.000 -9.000 -9.000 1182. -999. -99999.0  0.0879  0.32  0.14  0.00   0.0  15.0 291.6  2.0    0  0.00   35. 1004.    2 NAD-SFC NoSubs
11  4 22 112 15  103.0  0.156  1.526  0.010 1237.  148.     -3.3  0.1880  0.32  0.14  1.00 350.0  15.0 292.2  2.0    0  0.00   33. 1003.    2 NAD-SFC NoSubs
11  4 22 112 16   77.5  0.291  1.402  0.010 1275.  376.    -28.3  0.1900  0.32  0.16  2.60  21.0  15.0 292.2  2.0    0  0.00   34. 1003.    2 NAD-SFC NoSubs
11  4 22 112 17   45.3  0.279  1.179  0.010 1297.  353.    -42.7  0.1900  0.32  0.19  2.60  19.0  15.0 291.6  2.0    0  0.00   45. 1003.    2 NAD-SFC NoSubs
11  4 22 112 18    9.6  0.297  0.704  0.010 1300.  388.   -244.1  0.1900  0.32  0.32  3.10  23.0  15.0 290.8  2.0    0  0.00   50. 1003.    2 NAD-SFC NoSubs
11  4 22 112 19    1.6 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  0.72  0.00   0.0  15.0 290.2  2.0    0  0.00   51. 1003.    2 NAD-SFC NoSubs
11  4 22 112 20   -6.4  0.120 -9.000 -9.000 -999.  100.     24.4  0.1620  0.32  1.00  1.50 314.0  15.0 289.2  2.0    0  0.00   53. 1003.    3 NAD-SFC NoSubs
11  4 22 112 21  -27.0  0.257 -9.000 -9.000 -999.  313.     56.5  0.0780  0.32  1.00  3.60 286.0  15.0 288.0  2.0    0  0.00   58. 1004.    3 NAD-SFC NoSubs
11  4 22 112 22  -31.1  0.295 -9.000 -9.000 -999.  384.     73.7  0.0780  0.32  1.00  4.10 288.0  15.0 286.0  2.0    0  0.00   66. 1004.    3 NAD-SFC NoSubs
11  4 22 112 23  -32.0  0.302 -9.000 -9.000 -999.  399.     77.2  0.1620  0.32  1.00  3.60 304.0  15.0 284.8  2.0    0  0.00   71. 1004.    3 NAD-SFC NoSubs
11  4 22 112 24  -22.1  0.219 -9.000 -9.000 -999.  249.     42.7  0.0780  0.32  1.00  3.10 297.0  15.0 283.9  2.0    0  0.00   74. 1004.    3 NAD-SFC NoSubs
11  4 23 113  1  -19.9  0.214 -9.000 -9.000 -999.  237.     44.0  0.1620  0.32  1.00  2.60 316.0  15.0 283.2  2.0    0  0.00   75. 1004.    3 NAD-SFC NoSubs
11  4 23 113  2  -13.6  0.176 -9.000 -9.000 -999.  178.     36.2  0.1880  0.32  1.00  2.10 340.0  15.0 283.0  2.0    0  0.00   76. 1005.    3 NAD-SFC NoSubs
11  4 23 113  3   -3.5  0.095 -9.000 -9.000 -999.   72.     22.0  0.1900  0.32  1.00  1.00  10.0  15.0 282.6  2.0    0  0.00   77. 1005.    3 NAD-SFC NoSubs
11  4 23 113  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00   0.0  15.0 282.2  2.0    0  0.00   77. 1005.    3 NAD-SFC NoSubs
11  4 23 113  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00   0.0  15.0 281.8  2.0    0  0.00   79. 1005.    3 NAD-SFC NoSubs
11  4 23 113  6   -1.0  0.066 -9.000 -9.000 -999.   41.     26.6  0.0380  0.32  0.63  0.50 161.0  15.0 281.2  2.0    0  0.00   81. 1005.    3 NAD-SFC NoSubs
11  4 23 113  7   13.5  0.057  0.325  0.006   90.   33.     -1.2  0.0330  0.32  0.29  0.50 180.0  15.0 282.6  2.0    0  0.00   72. 1005.    2 NAD-SFC NoSubs
11  4 23 113  8   49.2  0.068  0.691  0.005  240.   43.     -1.0  0.0380  0.32  0.18  0.50 175.0  15.0 284.9  2.0    0  0.00   59. 1005.    2 NAD-SFC NoSubs
11  4 23 113  9   80.7  0.073  0.964  0.005  398.   47.     -1.0  0.0380  0.32  0.15  0.50 168.0  15.0 286.5  2.0    0  0.00   53. 1005.    2 NAD-SFC NoSubs
11  4 23 113 10  105.5  0.076  1.209  0.005  601.   50.     -1.0  0.0380  0.32  0.14  0.50 171.0  15.0 288.2  2.0    0  0.00   48. 1004.    2 NAD-SFC NoSubs
11  4 23 113 11  122.4 -9.000 -9.000 -9.000  757. -999. -99999.0  0.0879  0.32  0.14  0.00   0.0  15.0 289.8  2.0    0  0.00   41. 1003.    2 NAD-SFC NoSubs
11  4 23 113 12  130.6 -9.000 -9.000 -9.000  888. -999. -99999.0  0.0879  0.32  0.14  0.00   0.0  15.0 291.4  2.0    0  0.00   37. 1003.    3 NAD-SFC NoSubs
11  4 23 113 13  130.2 -9.000 -9.000 -9.000 1013. -999. -99999.0  0.0879  0.32  0.14  0.00   0.0  15.0 292.6  2.0    0  0.00   35. 1002.    3 NAD-SFC NoSubs
11  4 23 113 14  121.4 -9.000 -9.000 -9.000 1141. -999. -99999.0  0.0879  0.32  0.14  0.00   0.0  15.0 293.6  2.0    0  0.00   34. 1001.    3 NAD-SFC NoSubs
11  4 23 113 15  103.9 -9.000 -9.000 -9.000 1240. -999. -99999.0  0.0879  0.32  0.14  0.00   0.0  15.0 294.2  2.0    0  0.00   34. 1000.    3 NAD-SFC NoSubs
11  4 23 113 16   78.7 -9.000 -9.000 -9.000 1310. -999. -99999.0  0.0879  0.32  0.16  0.00   0.0  15.0 294.8  2.0    0  0.00   33. 1000.    3 NAD-SFC NoSubs
11  4 23 113 17   47.0  0.236  1.210  0.007 1345.  276.    -25.1  0.0780  0.32  0.19  2.60 291.0  15.0 294.8  2.0    0  0.00   35. 1000.    3 NAD-SFC NoSubs
11  4 23 113 18   11.4  0.359  0.755  0.007 1346.  517.   -363.6  0.0780  0.32  0.31  4.60 289.0  15.0 292.8  2.0    0  0.00   55. 1001.    3 NAD-SFC NoSubs
11  4 23 113 19  -43.1  0.416 -9.000 -9.000 -999.  643.    148.9  0.0780  0.32  0.71  5.70 286.0  15.0 290.0  2.0    0  0.00   68. 1002.    3 NAD-SFC NoSubs
11  4 23 113 20  -33.4  0.333 -9.000 -9.000 -999.  465.     98.5  0.0780  0.32  1.00  4.60 295.0  15.0 288.9  2.0    0  0.00   71. 1002.    4 NAD-SFC NoSubs
11  4 23 113 21  -24.7  0.258 -9.000 -9.000 -999.  317.     62.0  0.0780  0.32  1.00  3.60 277.0  15.0 288.1  2.0    0  0.00   75. 1003.    5 NAD-SFC NoSubs
11  4 23 113 22  -13.1  0.184 -9.000 -9.000 -999.  191.     42.7  0.0780  0.32  1.00  2.60 290.0  15.0 287.8  2.0    0  0.00   80. 1004.    8 NAD-SFC NoSubs
11  4 23 113 23   -9.4  0.174 -9.000 -9.000 -999.  175.     50.4  0.1620  0.32  1.00  2.10 312.0  15.0 287.2  2.0    0  0.25   85. 1004.   10 NAD-SFC NoSubs
11  4 23 113 24   -5.0  0.126 -9.000 -9.000 -999.  107.     35.9  0.1880  0.32  1.00  1.50 330.0  15.0 287.0  2.0    0  0.51   88. 1004.   10 NAD-SFC NoSubs
11  4 24 114  1   -0.7  0.058 -9.000 -9.000 -999.   35.     24.4  0.1280  0.32  1.00  0.50  34.0  15.0 286.9  2.0    0  0.25   89. 1004.   10 NAD-SFC NoSubs
11  4 24 114  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00   0.0  15.0 286.9  2.0    0  0.00   90. 1004.   10 NAD-SFC NoSubs
11  4 24 114  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00   0.0  15.0 286.8  2.0    0  0.25   91. 1004.   10 NAD-SFC NoSubs
11  4 24 114  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00   0.0  15.0 286.8  2.0    0  0.25   92. 1004.   10 NAD-SFC NoSubs
11  4 24 114  5   -1.3  0.062 -9.000 -9.000 -999.   37.     16.2  0.0310  0.32  1.00  1.00 247.0  15.0 286.6  2.0    0  0.25   94. 1004.   10 NAD-SFC NoSubs
11  4 24 114  6   -5.5  0.125 -9.000 -9.000 -999.  106.     31.6  0.0310  0.32  0.62  2.10 261.0  15.0 286.6  2.0    0  0.25   94. 1005.   10 NAD-SFC NoSubs
11  4 24 114  7   14.1  0.218  0.458  0.005  245.  245.    -66.2  0.0310  0.32  0.28  3.10 266.0  15.0 286.6  2.0    0  0.25   93. 1005.    7 NAD-SFC NoSubs
11  4 24 114  8   34.5  0.231  0.713  0.005  376.  267.    -32.0  0.0780  0.32  0.18  2.60 291.0  15.0 286.9  2.0    0  0.00   90. 1005.    8 NAD-SFC NoSubs
11  4 24 114  9   66.2  0.318  0.991  0.005  527.  431.    -43.6  0.1620  0.32  0.15  3.10 306.0  15.0 288.4  2.0    0  0.00   74. 1006.    7 NAD-SFC NoSubs
11  4 24 114 10   25.4  0.219  0.741  0.005  575.  251.    -37.1  0.1620  0.32  0.14  2.10 318.0  15.0 290.2  2.0    0  0.00   64. 1006.   10 NAD-SFC NoSubs
11  4 24 114 11   29.6  0.262  0.802  0.005  626.  321.    -54.2  0.1620  0.32  0.14  2.60 316.0  15.0 290.5  2.0    0  0.00   61. 1006.   10 NAD-SFC NoSubs
11  4 24 114 12  124.8  0.260  1.392  0.005  776.  318.    -12.6  0.1880  0.32  0.14  2.10 343.0  15.0 291.5  2.0    0  0.00   57. 1005.    5 NAD-SFC NoSubs
11  4 24 114 13  128.8  0.303  1.478  0.005  901.  400.    -19.4  0.1880  0.32  0.14  2.60 349.0  15.0 292.6  2.0    0  0.00   51. 1005.    4 NAD-SFC NoSubs
11  4 24 114 14  120.0  0.344  1.498  0.005 1003.  485.    -30.4  0.1900  0.32  0.14  3.10   2.0  15.0 293.4  2.0    0  0.00   47. 1004.    4 NAD-SFC NoSubs
11  4 24 114 15  102.9  0.463  1.459  0.005 1082.  757.    -86.7  0.1880  0.32  0.14  4.60 358.0  15.0 293.8  2.0    0  0.00   47. 1004.    4 NAD-SFC NoSubs
11  4 24 114 16   78.1  0.550  1.354  0.005 1138.  977.   -190.6  0.1880  0.32  0.16  5.70 350.0  15.0 293.6  2.0    0  0.00   48. 1004.    4 NAD-SFC NoSubs
11  4 24 114 17   45.8  0.583  1.143  0.005 1168. 1068.   -388.1  0.1880  0.32  0.19  6.20 352.0  15.0 292.9  2.0    0  0.00   56. 1004.    5 NAD-SFC NoSubs
11  4 24 114 18   12.5  0.429  0.742  0.005 1174.  697.   -568.5  0.1880  0.32  0.31  4.60 352.0  15.0 291.6  2.0    0  0.00   68. 1005.    5 NAD-SFC NoSubs
11  4 24 114 19  -45.3  0.451 -9.000 -9.000 -999.  728.    182.2  0.1880  0.32  0.70  5.10 351.0  15.0 289.2  2.0    0  0.00   78. 1006.    4 NAD-SFC NoSubs
11  4 24 114 20  -37.8  0.359 -9.000 -9.000 -999.  523.    110.2  0.1880  0.32  1.00  4.10 349.0  15.0 287.8  2.0    0  0.00   81. 1007.    3 NAD-SFC NoSubs
11  4 24 114 21  -28.3  0.268 -9.000 -9.000 -999.  338.     61.2  0.1880  0.32  1.00  3.10 348.0  15.0 286.9  2.0    0  0.00   82. 1008.    3 NAD-SFC NoSubs
11  4 24 114 22  -13.5  0.176 -9.000 -9.000 -999.  181.     36.4  0.1880  0.32  1.00  2.10 330.0  15.0 286.4  2.0    0  0.00   82. 1008.    3 NAD-SFC NoSubs
11  4 24 114 23   -5.1  0.104 -9.000 -9.000 -999.   82.     20.0  0.0780  0.32  1.00  1.50 285.0  15.0 286.0  2.0    0  0.00   83. 1009.    3 NAD-SFC NoSubs
11  4 24 114 24   -9.9  0.144 -9.000 -9.000 -999.  131.     27.3  0.0780  0.32  1.00  2.10 270.0  15.0 285.5  2.0    0  0.00   85. 1009.    3 NAD-SFC NoSubs
11  4 25 115  1   -2.6  0.083 -9.000 -9.000 -999.   58.     19.2  0.0780  0.32  1.00  1.00 292.0  15.0 285.1  2.0    0  0.00   86. 1009.    4 NAD-SFC NoSubs
11  4 25 115  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00   0.0  15.0 284.8  2.0    0  0.00   87. 1010.    4 NAD-SFC NoSubs
11  4 25 115  3   -1.2  0.074 -9.000 -9.000 -999.   48.     29.3  0.1280  0.32  1.00  0.50  58.0  15.0 284.2  2.0    0  0.00   88. 1010.    5 NAD-SFC NoSubs
11  4 25 115  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00   0.0  15.0 283.8  2.0    0  0.00   91. 1010.    5 NAD-SFC NoSubs
11  4 25 115  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00  0.00   0.0  15.0 283.2  2.0    0  0.00   94. 1010.    4 NAD-SFC NoSubs
11  4 25 115  6   -1.4  0.077 -9.000 -9.000 -999.   52.     30.3  0.1900  0.32  0.60  0.50  14.0  15.0 282.8  2.0    0  0.00   96. 1010.    3 NAD-SFC NoSubs
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11   4 25 115  7   16.0  0.062  0.341  0.005   89.   37.     -1.4  0.0510  0.32  0.28   0.50  108.0  15.0  284.6  2.0   0  0.00   84.  1010.    3 NAD-SFC NoSubs
11   4 25 115  8   51.3 -9.000 -9.000 -9.000  383. -999. -99999.0  0.0879  0.32  0.18   0.00    0.0  15.0  286.4  2.0   0  0.00   74.  1010.    3 NAD-SFC NoSubs
11   4 25 115  9   82.4 -9.000 -9.000 -9.000  649. -999. -99999.0  0.0879  0.32  0.15   0.00    0.0  15.0  288.1  2.0   0  0.00   65.  1010.    3 NAD-SFC NoSubs
11   4 25 115 10  106.9 -9.000 -9.000 -9.000  770. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  290.0  2.0   0  0.00   56.  1010.    3 NAD-SFC NoSubs
11   4 25 115 11  123.6 -9.000 -9.000 -9.000  886. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  291.8  2.0   0  0.00   49.  1009.    3 NAD-SFC NoSubs
11   4 25 115 12  129.9 -9.000 -9.000 -9.000  989. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  293.2  2.0   0  0.00   45.  1008.    4 NAD-SFC NoSubs
11   4 25 115 13  131.3  0.103  1.573  0.008 1066.   79.     -1.0  0.1620  0.32  0.14   0.50  313.0  15.0  294.2  2.0   0  0.00   42.  1007.    3 NAD-SFC NoSubs
11   4 25 115 14  122.5  0.302  1.569  0.008 1133.  398.    -20.1  0.1880  0.32  0.14   2.60  345.0  15.0  295.2  2.0   0  0.00   41.  1006.    3 NAD-SFC NoSubs
11   4 25 115 15  104.9  0.422  1.514  0.008 1188.  658.    -64.3  0.1880  0.32  0.14   4.10  351.0  15.0  295.5  2.0   0  0.00   40.  1005.    3 NAD-SFC NoSubs
11   4 25 115 16   79.7  0.501  1.397  0.009 1227.  849.   -140.9  0.1900  0.32  0.15   5.10    2.0  15.0  295.4  2.0   0  0.00   41.  1004.    3 NAD-SFC NoSubs
11   4 25 115 17   47.8  0.446  1.186  0.009 1249.  719.   -166.6  0.1880  0.32  0.19   4.60  359.0  15.0  294.8  2.0   0  0.00   49.  1004.    3 NAD-SFC NoSubs
11   4 25 115 18   12.4  0.385  0.758  0.009 1253.  577.   -412.2  0.1880  0.32  0.31   4.10  354.0  15.0  293.5  2.0   0  0.00   60.  1004.    3 NAD-SFC NoSubs
11   4 25 115 19  -44.8  0.451 -9.000 -9.000 -999.  728.    184.1  0.1880  0.32  0.69   5.10  354.0  15.0  291.0  2.0   0  0.00   70.  1004.    4 NAD-SFC NoSubs
11   4 25 115 20  -45.4  0.451 -9.000 -9.000 -999.  728.    181.3  0.1880  0.32  1.00   5.10  360.0  15.0  289.0  2.0   0  0.00   76.  1005.    4 NAD-SFC NoSubs
11   4 25 115 21  -36.4  0.360 -9.000 -9.000 -999.  524.    114.6  0.1880  0.32  1.00   4.10  351.0  15.0  287.8  2.0   0  0.00   81.  1005.    4 NAD-SFC NoSubs
11   4 25 115 22  -31.8  0.314 -9.000 -9.000 -999.  424.     87.2  0.1880  0.32  1.00   3.60  336.0  15.0  287.1  2.0   0  0.00   85.  1005.    4 NAD-SFC NoSubs
11   4 25 115 23  -35.2  0.347 -9.000 -9.000 -999.  489.    106.0  0.1620  0.32  1.00   4.10  307.0  15.0  286.5  2.0   0  0.00   87.  1006.    4 NAD-SFC NoSubs
11   4 25 115 24  -36.6  0.346 -9.000 -9.000 -999.  489.    101.7  0.1620  0.32  1.00   4.10  314.0  15.0  286.0  2.0   0  0.00   90.  1006.    3 NAD-SFC NoSubs
11   4 26 116  1  -36.7  0.346 -9.000 -9.000 -999.  489.    101.4  0.1620  0.32  1.00   4.10  309.0  15.0  285.2  2.0   0  0.00   91.  1006.    3 NAD-SFC NoSubs
11   4 26 116  2  -36.8  0.346 -9.000 -9.000 -999.  489.    101.1  0.1620  0.32  1.00   4.10  313.0  15.0  284.2  2.0   0  0.00   86.  1006.    3 NAD-SFC NoSubs
11   4 26 116  3  -32.3  0.302 -9.000 -9.000 -999.  400.     76.7  0.1620  0.32  1.00   3.60  308.0  15.0  283.2  2.0   0  0.00   84.  1007.    3 NAD-SFC NoSubs
11   4 26 116  4  -20.0  0.214 -9.000 -9.000 -999.  241.     44.0  0.1620  0.32  1.00   2.60  302.0  15.0  282.6  2.0   0  0.00   84.  1007.    3 NAD-SFC NoSubs
11   4 26 116  5   -5.1  0.104 -9.000 -9.000 -999.   88.     19.9  0.0780  0.32  1.00   1.50  290.0  15.0  282.1  2.0   0  0.00   85.  1007.    3 NAD-SFC NoSubs
11   4 26 116  6   -2.1  0.073 -9.000 -9.000 -999.   48.     17.0  0.0310  0.32  0.59   1.00  242.0  15.0  281.8  2.0   0  0.00   85.  1008.    3 NAD-SFC NoSubs
11   4 26 116  7   16.4  0.345  0.382  0.007  121.  486.   -224.3  0.1880  0.32  0.28   3.60  345.0  15.0  283.1  2.0   0  0.00   76.  1008.    3 NAD-SFC NoSubs
11   4 26 116  8   51.6  0.281  0.788  0.008  341.  359.    -38.5  0.1880  0.32  0.18   2.60  350.0  15.0  284.4  2.0   0  0.00   69.  1008.    3 NAD-SFC NoSubs
11   4 26 116  9   82.3  0.152  1.006  0.008  445.  152.     -3.8  0.1880  0.32  0.15   1.00  352.0  15.0  285.9  2.0   0  0.00   61.  1008.    2 NAD-SFC NoSubs
11   4 26 116 10  106.9  0.103  1.161  0.007  527.   80.     -1.0  0.1880  0.32  0.14   0.50  336.0  15.0  287.5  2.0   0  0.00   54.  1008.    2 NAD-SFC NoSubs
11   4 26 116 11  123.5 -9.000 -9.000 -9.000  608. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  289.1  2.0   0  0.00   47.  1007.    3 NAD-SFC NoSubs
11   4 26 116 12  131.5  0.103  1.378  0.005  714.   79.     -1.0  0.1620  0.32  0.14   0.50  316.0  15.0  290.5  2.0   0  0.00   41.  1006.    3 NAD-SFC NoSubs
11   4 26 116 13  131.1  0.261  1.460  0.005  852.  320.    -12.2  0.1880  0.32  0.14   2.10  332.0  15.0  291.8  2.0   0  0.00   37.  1006.    3 NAD-SFC NoSubs
11   4 26 116 14  122.3  0.385  1.487  0.006  964.  574.    -41.9  0.1880  0.32  0.14   3.60  334.0  15.0  292.8  2.0   0  0.00   34.  1005.    2 NAD-SFC NoSubs
11   4 26 116 15  104.7  0.506  1.451  0.006 1045.  863.   -110.7  0.1880  0.32  0.14   5.10  340.0  15.0  293.2  2.0   0  0.00   34.  1004.    2 NAD-SFC NoSubs
11   4 26 116 16   79.2  0.593  1.345  0.006 1101. 1094.   -235.6  0.1880  0.32  0.15   6.20  344.0  15.0  293.2  2.0   0  0.00   35.  1004.    2 NAD-SFC NoSubs
11   4 26 116 17   47.2  0.489  1.143  0.006 1132.  831.   -221.7  0.1880  0.32  0.19   5.10  335.0  15.0  292.8  2.0   0  0.00   43.  1004.    2 NAD-SFC NoSubs
11   4 26 116 18   11.4  0.385  0.714  0.006 1137.  582.   -444.9  0.1880  0.32  0.31   4.10  335.0  15.0  291.4  2.0   0  0.00   52.  1004.    2 NAD-SFC NoSubs
11   4 26 116 19  -41.4  0.390 -9.000 -9.000 -999.  585.    128.6  0.1620  0.32  0.69   4.60  326.0  15.0  289.4  2.0   0  0.00   57.  1005.    2 NAD-SFC NoSubs
11   4 26 116 20  -37.2  0.346 -9.000 -9.000 -999.  490.     99.8  0.1620  0.32  1.00   4.10  316.0  15.0  288.1  2.0   0  0.00   61.  1005.    2 NAD-SFC NoSubs
11   4 26 116 21  -27.8  0.258 -9.000 -9.000 -999.  319.     55.3  0.1620  0.32  1.00   3.10  318.0  15.0  287.4  2.0   0  0.00   62.  1005.    2 NAD-SFC NoSubs
11   4 26 116 22   -9.9  0.144 -9.000 -9.000 -999.  138.     26.9  0.0780  0.32  1.00   2.10  297.0  15.0  286.9  2.0   0  0.00   62.  1006.    2 NAD-SFC NoSubs
11   4 26 116 23   -2.3  0.076 -9.000 -9.000 -999.   52.     17.3  0.0310  0.32  1.00   1.00  267.0  15.0  286.5  2.0   0  0.00   62.  1006.    2 NAD-SFC NoSubs
11   4 26 116 24   -1.2  0.073 -9.000 -9.000 -999.   47.     29.1  0.0780  0.32  1.00   0.50  278.0  15.0  286.0  2.0   0  0.00   62.  1006.    2 NAD-SFC NoSubs
11   4 27 117  1   -1.2  0.073 -9.000 -9.000 -999.   47.     29.1  0.0780  0.32  1.00   0.50  279.0  15.0  285.2  2.0   0  0.00   64.  1007.    2 NAD-SFC NoSubs
11   4 27 117  2   -1.4  0.079 -9.000 -9.000 -999.   53.     31.0  0.1620  0.32  1.00   0.50  320.0  15.0  284.8  2.0   0  0.00   66.  1007.    2 NAD-SFC NoSubs
11   4 27 117  3   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.1880  0.32  1.00   0.50  339.0  15.0  284.2  2.0   0  0.00   68.  1007.    2 NAD-SFC NoSubs
11   4 27 117  4   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.1880  0.32  1.00   0.50  340.0  15.0  283.8  2.0   0  0.00   71.  1007.    2 NAD-SFC NoSubs
11   4 27 117  5   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.1880  0.32  1.00   0.50  337.0  15.0  283.2  2.0   0  0.00   74.  1007.    2 NAD-SFC NoSubs
11   4 27 117  6   -1.3  0.075 -9.000 -9.000 -999.   49.     29.6  0.1620  0.32  0.58   0.50  321.0  15.0  282.8  2.0   0  0.00   77.  1008.    3 NAD-SFC NoSubs
11   4 27 117  7   16.3  0.169  0.348  0.006   93.  166.    -26.4  0.1880  0.32  0.27   1.50  339.0  15.0  283.9  2.0   0  0.00   73.  1008.    2 NAD-SFC NoSubs
11   4 27 117  8   51.8  0.091  0.761  0.006  305.   67.     -1.3  0.1620  0.32  0.18   0.50  327.0  15.0  285.4  2.0   0  0.00   65.  1008.    2 NAD-SFC NoSubs
11   4 27 117  9   83.0 -9.000 -9.000 -9.000  437. -999. -99999.0  0.0879  0.32  0.15   0.00    0.0  15.0  287.1  2.0   0  0.00   58.  1008.    2 NAD-SFC NoSubs
11   4 27 117 10  107.5 -9.000 -9.000 -9.000  586. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  288.6  2.0   0  0.00   52.  1007.    2 NAD-SFC NoSubs
11   4 27 117 11  124.2 -9.000 -9.000 -9.000  715. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  290.2  2.0   0  0.00   46.  1007.    2 NAD-SFC NoSubs
11   4 27 117 12  132.3 -9.000 -9.000 -9.000  827. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  291.8  2.0   0  0.00   40.  1006.    2 NAD-SFC NoSubs
11   4 27 117 13  131.9  0.089  1.503  0.009  925.   64.     -1.0  0.0780  0.32  0.14   0.50  289.0  15.0  292.9  2.0   0  0.00   37.  1006.    2 NAD-SFC NoSubs
11   4 27 117 14  122.9  0.155  1.506  0.010  997.  147.     -2.7  0.1620  0.32  0.14   1.00  316.0  15.0  293.8  2.0   0  0.00   35.  1005.    2 NAD-SFC NoSubs
11   4 27 117 15  105.3  0.256  1.452  0.010 1044.  311.    -14.3  0.1880  0.32  0.14   2.10  340.0  15.0  294.2  2.0   0  0.00   33.  1005.    2 NAD-SFC NoSubs
11   4 27 117 16   79.8  0.291  1.338  0.010 1077.  377.    -27.8  0.1900  0.32  0.15   2.60    8.0  15.0  294.2  2.0   0  0.00   34.  1005.    2 NAD-SFC NoSubs
11   4 27 117 17   47.8  0.280  1.135  0.010 1096.  355.    -41.0  0.1900  0.32  0.19   2.60   28.0  15.0  293.8  2.0   0  0.00   42.  1005.    2 NAD-SFC NoSubs
11   4 27 117 18   12.2  0.237  0.722  0.010 1100.  278.    -97.9  0.1280  0.32  0.30   2.60   44.0  15.0  293.1  2.0   0  0.00   47.  1005.    2 NAD-SFC NoSubs
11   4 27 117 19  -18.1  0.202 -9.000 -9.000 -999.  219.     41.1  0.1280  0.32  0.68   2.60   56.0  15.0  292.2  2.0   0  0.00   47.  1006.    2 NAD-SFC NoSubs
11   4 27 117 20   -5.1  0.104 -9.000 -9.000 -999.   85.     19.8  0.0760  0.32  1.00   1.50   79.0  15.0  291.1  2.0   0  0.00   50.  1006.    2 NAD-SFC NoSubs
11   4 27 117 21   -2.4  0.079 -9.000 -9.000 -999.   54.     18.3  0.0510  0.32  1.00   1.00  106.0  15.0  289.9  2.0   0  0.00   55.  1006.    3 NAD-SFC NoSubs
11   4 27 117 22   -1.0  0.067 -9.000 -9.000 -999.   42.     26.9  0.0380  0.32  1.00   0.50  157.0  15.0  288.8  2.0   0  0.00   60.  1007.    3 NAD-SFC NoSubs
11   4 27 117 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0879  0.32  1.00   0.00    0.0  15.0  287.6  2.0   0  0.00   65.  1007.    3 NAD-SFC NoSubs
11   4 27 117 24   -1.4  0.078 -9.000 -9.000 -999.   52.     30.7  0.1620  0.32  1.00   0.50  319.0  15.0  286.8  2.0   0  0.00   69.  1007.    3 NAD-SFC NoSubs
11   4 28 118  1  -13.5  0.176 -9.000 -9.000 -999.  178.     36.4  0.1880  0.32  1.00   2.10  332.0  15.0  286.2  2.0   0  0.00   71.  1007.    3 NAD-SFC NoSubs
11   4 28 118  2  -33.3  0.314 -9.000 -9.000 -999.  422.     83.3  0.1880  0.32  1.00   3.60  341.0  15.0  285.2  2.0   0  0.00   76.  1007.    3 NAD-SFC NoSubs
11   4 28 118  3  -28.5  0.268 -9.000 -9.000 -999.  334.     60.7  0.1880  0.32  1.00   3.10  360.0  15.0  284.6  2.0   0  0.00   80.  1007.    3 NAD-SFC NoSubs
11   4 28 118  4  -21.3  0.223 -9.000 -9.000 -999.  253.     46.7  0.1900  0.32  1.00   2.60    4.0  15.0  284.2  2.0   0  0.00   81.  1007.    3 NAD-SFC NoSubs
11   4 28 118  5   -6.9  0.125 -9.000 -9.000 -999.  110.     25.4  0.1900  0.32  1.00   1.50    5.0  15.0  283.8  2.0   0  0.00   82.  1007.    3 NAD-SFC NoSubs
11   4 28 118  6   -1.3  0.075 -9.000 -9.000 -999.   50.     29.7  0.1880  0.32  0.57   0.50  342.0  15.0  283.4  2.0   0  0.00   83.  1008.    3 NAD-SFC NoSubs
11   4 28 118  7   17.9  0.170  0.362  0.008   95.  168.    -24.6  0.1880  0.32  0.27   1.50  347.0  15.0  284.6  2.0   0  0.00   76.  1008.    3 NAD-SFC NoSubs
11   4 28 118  8   53.1 -9.000 -9.000 -9.000  204. -999. -99999.0  0.0879  0.32  0.18   0.00    0.0  15.0  286.5  2.0   0  0.00   67.  1008.    3 NAD-SFC NoSubs
11   4 28 118  9   84.0 -9.000 -9.000 -9.000  319. -999. -99999.0  0.0879  0.32  0.15   0.00    0.0  15.0  288.5  2.0   0  0.00   58.  1008.    3 NAD-SFC NoSubs
11   4 28 118 10  108.3 -9.000 -9.000 -9.000  479. -999. -99999.0  0.0879  0.32  0.14   0.00    0.0  15.0  290.4  2.0   0  0.00   51.  1008.    2 NAD-SFC NoSubs
11   4 28 118 11  125.0  0.135  1.338  0.006  689.  118.     -1.7  0.0780  0.32  0.14   1.00  298.0  15.0  292.0  2.0   0  0.00   45.  1007.    2 NAD-SFC NoSubs
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11  4 28 118 12  132.9  0.202  1.454  0.006   831.   219.     -5.6  0.1620  0.32  0.14   1.50  323.0  15.0  293.4  2.0   0  0.00   40.  1007.   3 NAD-SFC NoSubs
11  4 28 118 13  132.4  0.346  1.520  0.007   953.   488.    -28.0  0.1880  0.32  0.14   3.10  337.0  15.0  294.4  2.0   0  0.00   36.  1006.   3 NAD-SFC NoSubs
11  4 28 118 14  123.4  0.427  1.527  0.008  1035.   669.    -56.5  0.1880  0.32  0.14   4.10  337.0  15.0  295.0  2.0   0  0.00   35.  1006.   3 NAD-SFC NoSubs
11  4 28 118 15  105.9  0.506  1.480  0.008  1098.   863.   -109.7  0.1880  0.32  0.14   5.10  345.0  15.0  295.2  2.0   0  0.00   35.  1005.   3 NAD-SFC NoSubs
11  4 28 118 16   80.7  0.551  1.370  0.008  1143.   979.   -185.4  0.1880  0.32  0.15   5.70  344.0  15.0  295.0  2.0   0  0.00   36.  1005.   3 NAD-SFC NoSubs
11  4 28 118 17   48.9  0.447  1.168  0.008  1168.   727.   -163.4  0.1880  0.32  0.19   4.60  339.0  15.0  294.2  2.0   0  0.00   44.  1005.   3 NAD-SFC NoSubs
11  4 28 118 18   13.5  0.386  0.761  0.008  1172.   579.   -382.0  0.1880  0.32  0.30   4.10  336.0  15.0  292.8  2.0   0  0.00   53.  1006.   3 NAD-SFC NoSubs
11  4 28 118 19  -41.3  0.405 -9.000 -9.000  -999.   619.    144.5  0.1880  0.32  0.67   4.60  345.0  15.0  290.6  2.0   0  0.00   59.  1006.   3 NAD-SFC NoSubs
11  4 28 118 20  -42.4  0.405 -9.000 -9.000  -999.   619.    140.5  0.1880  0.32  1.00   4.60  337.0  15.0  288.8  2.0   0  0.00   64.  1006.   3 NAD-SFC NoSubs
11  4 28 118 21  -42.6  0.405 -9.000 -9.000  -999.   619.    139.9  0.1880  0.32  1.00   4.60  340.0  15.0  287.5  2.0   0  0.00   67.  1007.   3 NAD-SFC NoSubs
11  4 28 118 22  -42.8  0.405 -9.000 -9.000  -999.   619.    139.4  0.1880  0.32  1.00   4.60  335.0  15.0  286.4  2.0   0  0.00   68.  1007.   3 NAD-SFC NoSubs
11  4 28 118 23  -46.1  0.435 -9.000 -9.000  -999.   687.    159.9  0.1620  0.32  1.00   5.10  321.0  15.0  285.4  2.0   0  0.00   72.  1008.   3 NAD-SFC NoSubs
11  4 28 118 24  -46.3  0.435 -9.000 -9.000  -999.   687.    159.3  0.1620  0.32  1.00   5.10  323.0  15.0  284.4  2.0   0  0.00   76.  1008.   3 NAD-SFC NoSubs
11  4 29 119  1  -46.4  0.434 -9.000 -9.000  -999.   687.    158.8  0.1620  0.32  1.00   5.10  320.0  15.0  283.5  2.0   0  0.00   77.  1008.   3 NAD-SFC NoSubs
11  4 29 119  2  -41.8  0.390 -9.000 -9.000  -999.   587.    127.7  0.1620  0.32  1.00   4.60  317.0  15.0  282.8  2.0   0  0.00   78.  1008.   3 NAD-SFC NoSubs
11  4 29 119  3  -41.9  0.390 -9.000 -9.000  -999.   585.    127.4  0.1620  0.32  1.00   4.60  320.0  15.0  282.1  2.0   0  0.00   79.  1008.   3 NAD-SFC NoSubs
11  4 29 119  4  -32.5  0.302 -9.000 -9.000  -999.   403.     76.3  0.1620  0.32  1.00   3.60  320.0  15.0  281.5  2.0   0  0.00   81.  1008.   3 NAD-SFC NoSubs
11  4 29 119  5  -12.9  0.170 -9.000 -9.000  -999.   179.     34.2  0.1620  0.32  1.00   2.10  309.0  15.0  281.0  2.0   0  0.00   82.  1009.   3 NAD-SFC NoSubs
11  4 29 119  6   -1.0  0.068 -9.000 -9.000  -999.    52.     27.5  0.0780  0.32  0.57   0.50  291.0  15.0  280.6  2.0   0  0.00   82.  1009.   3 NAD-SFC NoSubs
11  4 29 119  7   17.3  0.476  0.361  0.006    97.   788.   -560.2  0.1880  0.32  0.27   5.10  339.0  15.0  282.4  2.0   0  0.00   66.  1010.   2 NAD-SFC NoSubs
11  4 29 119  8   52.7  0.448  0.767  0.005   308.   721.   -153.9  0.1880  0.32  0.18   4.60  337.0  15.0  283.8  2.0   0  0.00   55.  1010.   2 NAD-SFC NoSubs
11  4 29 119  9   83.7  0.416  1.015  0.005   450.   646.    -77.6  0.1880  0.32  0.15   4.10  345.0  15.0  285.2  2.0   0  0.00   48.  1009.   2 NAD-SFC NoSubs
11  4 29 119 10  108.1  0.382  1.188  0.005   559.   567.    -46.3  0.1880  0.32  0.14   3.60  339.0  15.0  286.6  2.0   0  0.00   42.  1009.   3 NAD-SFC NoSubs
11  4 29 119 11  124.5  0.469  1.328  0.005   677.   769.    -74.3  0.1880  0.32  0.14   4.60  336.0  15.0  287.9  2.0   0  0.00   38.  1008.   3 NAD-SFC NoSubs
11  4 29 119 12  132.3  0.470  1.518  0.007   951.   774.    -70.7  0.1880  0.32  0.14   4.60  334.0  15.0  288.9  2.0   0  0.00   36.  1008.   3 NAD-SFC NoSubs
11  4 29 119 13  131.7  0.512  1.562  0.006  1040.   878.    -91.5  0.1880  0.32  0.14   5.10  330.0  15.0  289.8  2.0   0  0.00   34.  1007.   3 NAD-SFC NoSubs
11  4 29 119 14  122.8  0.544  1.557  0.006  1105.   961.   -117.5  0.1620  0.32  0.14   5.70  329.0  15.0  290.5  2.0   0  0.00   32.  1006.   3 NAD-SFC NoSubs
11  4 29 119 15  105.2  0.599  1.503  0.006  1159.  1111.   -183.2  0.1880  0.32  0.14   6.20  330.0  15.0  291.0  2.0   0  0.00   31.  1005.   2 NAD-SFC NoSubs
11  4 29 119 16   79.8  0.593  1.386  0.006  1197.  1096.   -234.1  0.1880  0.32  0.15   6.20  333.0  15.0  291.1  2.0   0  0.00   30.  1005.   2 NAD-SFC NoSubs
11  4 29 119 17   48.0  0.489  1.177  0.006  1219.   832.   -218.6  0.1880  0.32  0.19   5.10  332.0  15.0  290.8  2.0   0  0.00   35.  1005.   2 NAD-SFC NoSubs
11  4 29 119 18   12.4  0.299  0.750  0.006  1223.   425.   -193.5  0.1880  0.32  0.30   3.10  335.0  15.0  289.6  2.0   0  0.00   45.  1005.   2 NAD-SFC NoSubs
11  4 29 119 19  -31.8  0.302 -9.000 -9.000  -999.   399.     77.9  0.1620  0.32  0.66   3.60  324.0  15.0  288.2  2.0   0  0.00   46.  1006.   2 NAD-SFC NoSubs
11  4 29 119 20  -27.9  0.258 -9.000 -9.000  -999.   315.     55.3  0.1620  0.32  1.00   3.10  301.0  15.0  287.2  2.0   0  0.00   46.  1006.   2 NAD-SFC NoSubs
11  4 29 119 21  -15.5  0.181 -9.000 -9.000  -999.   187.     34.5  0.0780  0.32  1.00   2.60  277.0  15.0  286.4  2.0   0  0.00   46.  1006.   2 NAD-SFC NoSubs
11  4 29 119 22  -12.2  0.155 -9.000 -9.000  -999.   147.     27.3  0.0340  0.32  1.00   2.60  237.0  15.0  285.5  2.0   0  0.00   47.  1006.   2 NAD-SFC NoSubs
11  4 29 119 23  -24.0  0.220 -9.000 -9.000  -999.   248.     39.9  0.0340  0.32  1.00   3.60  227.0  15.0  284.6  2.0   0  0.00   47.  1006.   2 NAD-SFC NoSubs
11  4 29 119 24  -24.1  0.220 -9.000 -9.000  -999.   248.     39.7  0.0340  0.32  1.00   3.60  230.0  15.0  283.2  2.0   0  0.00   50.  1005.   2 NAD-SFC NoSubs
11  4 30 120  1   -7.9  0.123 -9.000 -9.000  -999.   108.     21.3  0.0340  0.32  1.00   2.10  236.0  15.0  282.2  2.0   0  0.00   54.  1005.   2 NAD-SFC NoSubs
11  4 30 120  2   -6.6  0.121 -9.000 -9.000  -999.   101.     23.9  0.1620  0.32  1.00   1.50  309.0  15.0  281.2  2.0   0  0.00   61.  1006.   2 NAD-SFC NoSubs
11  4 30 120  3  -13.0  0.169 -9.000 -9.000  -999.   167.     33.6  0.1620  0.32  1.00   2.10  317.0  15.0  280.8  2.0   0  0.00   66.  1006.   2 NAD-SFC NoSubs
11  4 30 120  4   -5.2  0.105 -9.000 -9.000  -999.    82.     19.7  0.0780  0.32  1.00   1.50  298.0  15.0  280.1  2.0   0  0.00   67.  1007.   2 NAD-SFC NoSubs
11  4 30 120  5   -5.2  0.105 -9.000 -9.000  -999.    81.     19.7  0.0780  0.32  1.00   1.50  289.0  15.0  279.6  2.0   0  0.00   67.  1007.   2 NAD-SFC NoSubs
11  4 30 120  6   -9.4  0.145 -9.000 -9.000  -999.   132.     29.0  0.0780  0.32  0.56   2.10  282.0  15.0  279.2  2.0   0  0.00   66.  1008.   2 NAD-SFC NoSubs
11  4 30 120  7   17.8  0.213  0.325  0.010    69.   236.    -49.0  0.1620  0.32  0.27   2.10  327.0  15.0  281.2  2.0   0  0.00   54.  1008.   2 NAD-SFC NoSubs
11  4 30 120  8   53.2  0.094  0.645  0.011   181.    79.     -1.4  0.1880  0.32  0.18   0.50  343.0  15.0  283.5  2.0   0  0.00   47.  1008.   2 NAD-SFC NoSubs
11  4 30 120  9   84.3  0.084  0.901  0.010   312.    58.     -1.0  0.0780  0.32  0.15   0.50  278.0  15.0  286.0  2.0   0  0.00   39.  1008.   2 NAD-SFC NoSubs
11  4 30 120 10  108.7  0.087  1.088  0.009   426.    61.     -1.0  0.0780  0.32  0.14   0.50  294.0  15.0  288.0  2.0   0  0.00   33.  1008.   2 NAD-SFC NoSubs
11  4 30 120 11  125.4  0.102  1.223  0.008   525.    78.     -1.0  0.1620  0.32  0.14   0.50  307.0  15.0  290.1  2.0   0  0.00   28.  1007.   2 NAD-SFC NoSubs
11  4 30 120 12  133.4  0.162  1.315  0.007   613.   156.     -2.8  0.1880  0.32  0.14   1.00  338.0  15.0  291.6  2.0   0  0.00   24.  1007.   2 NAD-SFC NoSubs
11  4 30 120 13  132.9  0.209  1.376  0.006   704.   229.     -6.1  0.1880  0.32  0.14   1.50  349.0  15.0  292.8  2.0   0  0.00   22.  1006.   2 NAD-SFC NoSubs
11  4 30 120 14  123.8  0.260  1.399  0.005   794.   318.    -12.7  0.1880  0.32  0.14   2.10  347.0  15.0  293.5  2.0   0  0.00   22.  1006.   2 NAD-SFC NoSubs
11  4 30 120 15  106.3  0.256  1.368  0.005   864.   311.    -14.2  0.1880  0.32  0.14   2.10  343.0  15.0  294.2  2.0   0  0.00   21.  1005.   2 NAD-SFC NoSubs
11  4 30 120 16   81.0  0.291  1.273  0.005   914.   377.    -27.3  0.1880  0.32  0.15   2.60  338.0  15.0  294.8  2.0   0  0.00   21.  1005.   2 NAD-SFC NoSubs
11  4 30 120 17   49.3  0.280  1.091  0.005   943.   355.    -39.8  0.1880  0.32  0.19   2.60  338.0  15.0  294.9  2.0   0  0.00   22.  1005.   2 NAD-SFC NoSubs
11  4 30 120 18   13.8  0.167  0.716  0.005   950.   170.    -30.0  0.1900  0.32  0.30   1.50    2.0  15.0  294.4  2.0   0  0.00   30.  1005.   2 NAD-SFC NoSubs
11  4 30 120 19   -3.7 -9.000 -9.000 -9.000  -999.  -999. -99999.0  0.0879  0.32  0.65   0.00    0.0  15.0  293.2  2.0   0  0.00   33.  1006.   2 NAD-SFC NoSubs
11  4 30 120 20  -21.2  0.223 -9.000 -9.000  -999.   252.     46.7  0.1900  0.32  1.00   2.60   12.0  15.0  292.0  2.0   0  0.00   37.  1006.   2 NAD-SFC NoSubs
11  4 30 120 21   -6.0  0.115 -9.000 -9.000  -999.    99.     22.6  0.1280  0.32  1.00   1.50   35.0  15.0  290.8  2.0   0  0.00   40.  1007.   2 NAD-SFC NoSubs
11  4 30 120 22   -3.1  0.090 -9.000 -9.000  -999.    64.     20.7  0.1280  0.32  1.00   1.00   35.0  15.0  289.6  2.0   0  0.00   43.  1008.   2 NAD-SFC NoSubs
11  4 30 120 23   -3.3  0.093 -9.000 -9.000  -999.    68.     21.4  0.1620  0.32  1.00   1.00  323.0  15.0  288.2  2.0   0  0.00   47.  1008.   2 NAD-SFC NoSubs
11  4 30 120 24   -1.0  0.067 -9.000 -9.000  -999.    42.     26.9  0.0340  0.32  1.00   0.50  239.0  15.0  286.9  2.0   0  0.00   51.  1008.   2 NAD-SFC NoSubs
11  5  1 121  1   -6.8  0.124 -9.000 -9.000  -999.   104.     24.8  0.1810  0.52  1.00   1.50  170.0  15.0  285.9  2.0   0  0.00   51.  1008.   2 NAD-SFC NoSubs
11  5  1 121  2  -21.7  0.224 -9.000 -9.000  -999.   255.     46.6  0.1950  0.52  1.00   2.60  232.0  15.0  285.2  2.0   0  0.00   51.  1008.   2 NAD-SFC NoSubs
11  5  1 121  3  -33.7  0.308 -9.000 -9.000  -999.   410.     77.8  0.1750  0.52  1.00   3.60  264.0  15.0  284.0  2.0   0  0.00   54.  1009.   2 NAD-SFC NoSubs
11  5  1 121  4  -30.6  0.278 -9.000 -9.000  -999.   352.     63.1  0.2160  0.52  1.00   3.10  275.0  15.0  282.9  2.0   0  0.00   59.  1009.   2 NAD-SFC NoSubs
11  5  1 121  5  -30.6  0.278 -9.000 -9.000  -999.   351.     62.9  0.2160  0.52  1.00   3.10  271.0  15.0  282.1  2.0   0  0.00   61.  1009.   2 NAD-SFC NoSubs
11  5  1 121  6  -26.2  0.279 -9.000 -9.000  -999.   354.     74.7  0.2160  0.52  0.59   3.10  285.0  15.0  281.6  2.0   0  0.00   62.  1010.   2 NAD-SFC NoSubs
11  5  1 121  7   23.3  0.317  0.357  0.006    70.   427.   -123.0  0.2160  0.52  0.31   3.10  286.0  15.0  283.8  2.0   0  0.00   49.  1011.   2 NAD-SFC NoSubs
11  5  1 121  8   70.4  0.253  0.716  0.006   188.   307.    -20.6  0.2160  0.52  0.23   2.10  281.0  15.0  285.8  2.0   0  0.00   41.  1011.   2 NAD-SFC NoSubs
11  5  1 121  9  111.9  0.202  1.044  0.006   367.   218.     -6.6  0.1750  0.52  0.20   1.50  254.0  15.0  288.5  2.0   0  0.00   31.  1011.   2 NAD-SFC NoSubs
11  5  1 121 10  144.5  0.161  1.327  0.006   582.   155.     -2.6  0.1750  0.52  0.19   1.00  252.0  15.0  290.6  2.0   0  0.00   26.  1010.   2 NAD-SFC NoSubs
11  5  1 121 11  166.8  0.111  1.526  0.005   769.    89.     -1.0  0.1950  0.52  0.19   0.50  231.0  15.0  292.8  2.0   0  0.00   22.  1010.   2 NAD-SFC NoSubs
11  5  1 121 12  177.5 -9.000 -9.000 -9.000   930.  -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  294.5  2.0   0  0.00   19.  1009.   2 NAD-SFC NoSubs
11  5  1 121 13  177.0 -9.000 -9.000 -9.000  1071.  -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  295.8  2.0   0  0.00   17.  1008.   2 NAD-SFC NoSubs
11  5  1 121 14  165.0 -9.000 -9.000 -9.000  1189.  -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  296.6  2.0   0  0.00   16.  1008.   2 NAD-SFC NoSubs
11  5  1 121 15  141.6  0.114  1.715  0.005  1282.    92.     -1.0  0.2470  0.52  0.19   0.50   52.0  15.0  297.1  2.0   0  0.00   16.  1007.   2 NAD-SFC NoSubs
11  5  1 121 16  107.9  0.216  1.595  0.005  1353.   241.     -8.4  0.2470  0.52  0.20   1.50   40.0  15.0  297.2  2.0   0  0.00   18.  1007.   2 NAD-SFC NoSubs
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11	5	1	121	17	65.6	0.315	1.371	0.005	1413.	424.	-42.7	0.2940	0.52	0.24	2.60	26.0	15.0	296.9	2.0	0	0.00	21.	1007.	2	NAD-SFC	NoSubs
11	5	1	121	18	18.0	0.322	0.894	0.005	1425.	439.	-166.9	0.2470	0.52	0.34	3.10	31.0	15.0	295.8	2.0	0	0.00	32.	1007.	2	NAD-SFC	NoSubs
11	5	1	121	19	-39.4	0.387	-9.000	-9.000	-999.	577.	132.0	0.2470	0.52	0.69	4.10	31.0	15.0	294.6	2.0	0	0.00	33.	1008.	2	NAD-SFC	NoSubs
11	5	1	121	20	-30.6	0.288	-9.000	-9.000	-999.	377.	70.6	0.2470	0.52	1.00	3.10	50.0	15.0	293.5	2.0	0	0.00	33.	1008.	2	NAD-SFC	NoSubs
11	5	1	121	21	-3.6	0.096	-9.000	-9.000	-999.	120.	22.3	0.2090	0.52	1.00	1.00	88.0	15.0	291.9	2.0	0	0.00	37.	1008.	2	NAD-SFC	NoSubs
11	5	1	121	22	-7.0	0.126	-9.000	-9.000	-999.	107.	25.6	0.1950	0.52	1.00	1.50	230.0	15.0	290.2	2.0	0	0.00	44.	1009.	2	NAD-SFC	NoSubs
11	5	1	121	23	-20.7	0.218	-9.000	-9.000	-999.	244.	45.1	0.1750	0.52	1.00	2.60	257.0	15.0	289.2	2.0	0	0.00	47.	1010.	2	NAD-SFC	NoSubs
11	5	1	121	24	-3.7	0.097	-9.000	-9.000	-999.	82.	22.4	0.2160	0.52	1.00	1.00	290.0	15.0	288.6	2.0	0	0.00	48.	1010.	2	NAD-SFC	NoSubs
11	5	2	122	1	-7.2	0.128	-9.000	-9.000	-999.	110.	26.1	0.2090	0.52	1.00	1.50	82.0	15.0	287.8	2.0	0	0.00	51.	1010.	2	NAD-SFC	NoSubs
11	5	2	122	2	-14.4	0.182	-9.000	-9.000	-999.	186.	37.6	0.2130	0.52	1.00	2.10	95.0	15.0	287.2	2.0	0	0.00	51.	1010.	2	NAD-SFC	NoSubs
11	5	2	122	3	-1.5	0.081	-9.000	-9.000	-999.	61.	31.4	0.1970	0.52	1.00	0.50	128.0	15.0	287.0	2.0	0	0.00	52.	1010.	2	NAD-SFC	NoSubs
11	5	2	122	4	-3.4	0.094	-9.000	-9.000	-999.	69.	21.7	0.1750	0.52	1.00	1.00	258.0	15.0	286.8	2.0	0	0.00	54.	1011.	2	NAD-SFC	NoSubs
11	5	2	122	5	-14.6	0.183	-9.000	-9.000	-999.	188.	37.8	0.2160	0.52	1.00	2.10	284.0	15.0	286.8	2.0	0	0.00	55.	1011.	2	NAD-SFC	NoSubs
11	5	2	122	6	-25.0	0.279	-9.000	-9.000	-999.	354.	78.8	0.2160	0.52	0.58	3.10	286.0	15.0	286.9	2.0	0	0.00	54.	1012.	2	NAD-SFC	NoSubs
11	5	2	122	7	25.0	0.274	0.356	0.005	65.	345.	-74.6	0.2160	0.52	0.31	2.60	293.0	15.0	288.1	2.0	0	0.00	53.	1012.	2	NAD-SFC	NoSubs
11	5	2	122	8	72.2	0.297	0.751	0.005	211.	388.	-32.6	0.2160	0.52	0.23	2.60	286.0	15.0	290.2	2.0	0	0.00	47.	1012.	2	NAD-SFC	NoSubs
11	5	2	122	9	113.7	0.163	1.114	0.005	438.	169.	-3.4	0.2160	0.52	0.20	1.00	283.0	15.0	292.6	2.0	0	0.00	37.	1012.	2	NAD-SFC	NoSubs
11	5	2	122	10	146.3	-9.000	-9.000	-9.000	717.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.6	2.0	0	0.00	28.	1012.	2	NAD-SFC	NoSubs
11	5	2	122	11	168.4	-9.000	-9.000	-9.000	949.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.2	2.0	0	0.00	24.	1012.	2	NAD-SFC	NoSubs
11	5	2	122	12	179.0	-9.000	-9.000	-9.000	1124.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.4	2.0	0	0.00	21.	1011.	2	NAD-SFC	NoSubs
11	5	2	122	13	178.4	-9.000	-9.000	-9.000	1274.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.4	2.0	0	0.00	20.	1010.	2	NAD-SFC	NoSubs
11	5	2	122	14	166.5	0.113	1.861	0.005	1397.	91.	-1.0	0.2160	0.52	0.19	0.50	282.0	15.0	299.2	2.0	0	0.00	20.	1009.	2	NAD-SFC	NoSubs
11	5	2	122	15	143.1	0.118	1.810	0.005	1491.	98.	-1.0	0.2930	0.52	0.19	0.50	336.0	15.0	299.8	2.0	0	0.00	19.	1008.	2	NAD-SFC	NoSubs
11	5	2	122	16	109.5	0.225	1.680	0.005	1559.	256.	-9.3	0.2940	0.52	0.20	1.50	20.0	15.0	299.9	2.0	0	0.00	19.	1008.	2	NAD-SFC	NoSubs
11	5	2	122	17	67.0	0.304	1.438	0.005	1597.	401.	-37.5	0.2470	0.52	0.23	2.60	35.0	15.0	299.2	2.0	0	0.00	26.	1008.	2	NAD-SFC	NoSubs
11	5	2	122	18	19.5	0.323	0.955	0.005	1605.	441.	-155.6	0.2470	0.52	0.34	3.10	31.0	15.0	298.2	2.0	0	0.00	35.	1008.	2	NAD-SFC	NoSubs
11	5	2	122	19	-33.7	0.338	-9.000	-9.000	-999.	471.	102.7	0.2470	0.52	0.68	3.60	34.0	15.0	297.1	2.0	0	0.00	36.	1008.	2	NAD-SFC	NoSubs
11	5	2	122	20	-16.6	0.200	-9.000	-9.000	-999.	227.	43.5	0.2940	0.52	1.00	2.10	8.0	15.0	295.8	2.0	0	0.00	39.	1008.	2	NAD-SFC	NoSubs
11	5	2	122	21	-1.5	0.081	-9.000	-9.000	-999.	68.	31.3	0.2160	0.52	1.00	0.50	276.0	15.0	294.0	2.0	0	0.00	45.	1008.	2	NAD-SFC	NoSubs
11	5	2	122	22	-6.7	0.122	-9.000	-9.000	-999.	103.	24.8	0.1750	0.52	1.00	1.50	266.0	15.0	292.4	2.0	0	0.00	50.	1009.	2	NAD-SFC	NoSubs
11	5	2	122	23	-14.4	0.183	-9.000	-9.000	-999.	188.	38.1	0.2160	0.52	1.00	2.10	274.0	15.0	291.0	2.0	0	0.00	54.	1009.	2	NAD-SFC	NoSubs
11	5	2	122	24	-7.3	0.129	-9.000	-9.000	-999.	112.	26.4	0.2160	0.52	1.00	1.50	278.0	15.0	290.1	2.0	0	0.00	56.	1009.	2	NAD-SFC	NoSubs
11	5	3	123	1	-25.1	0.246	-9.000	-9.000	-999.	293.	53.3	0.2720	0.52	1.00	2.60	311.0	15.0	289.4	2.0	0	0.00	58.	1009.	2	NAD-SFC	NoSubs
11	5	3	123	2	-16.7	0.200	-9.000	-9.000	-999.	215.	42.8	0.2930	0.52	1.00	2.10	332.0	15.0	288.5	2.0	0	0.00	64.	1009.	2	NAD-SFC	NoSubs
11	5	3	123	3	-8.4	0.140	-9.000	-9.000	-999.	126.	29.3	0.2930	0.52	1.00	1.50	331.0	15.0	287.8	2.0	0	0.00	70.	1009.	2	NAD-SFC	NoSubs
11	5	3	123	4	-16.1	0.195	-9.000	-9.000	-999.	207.	41.4	0.2720	0.52	1.00	2.10	321.0	15.0	287.1	2.0	0	0.00	75.	1008.	2	NAD-SFC	NoSubs
11	5	3	123	5	-16.2	0.195	-9.000	-9.000	-999.	207.	41.4	0.2720	0.52	1.00	2.10	308.0	15.0	286.8	2.0	0	0.00	78.	1008.	2	NAD-SFC	NoSubs
11	5	3	123	6	-3.4	0.096	-9.000	-9.000	-999.	77.	23.6	0.2720	0.52	0.57	1.00	311.0	15.0	286.2	2.0	0	0.00	80.	1009.	2	NAD-SFC	NoSubs
11	5	3	123	7	25.6	0.248	0.426	0.008	108.	297.	-53.7	0.2930	0.52	0.31	2.10	337.0	15.0	287.8	2.0	0	0.00	78.	1009.	2	NAD-SFC	NoSubs
11	5	3	123	8	72.8	0.108	0.752	0.010	210.	101.	-1.6	0.2930	0.52	0.22	0.50	350.0	15.0	289.6	2.0	0	0.00	70.	1008.	2	NAD-SFC	NoSubs
11	5	3	123	9	114.0	-9.000	-9.000	-9.000	328.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	291.8	2.0	0	0.00	59.	1008.	2	NAD-SFC	NoSubs
11	5	3	123	10	146.5	-9.000	-9.000	-9.000	473.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	293.8	2.0	0	0.00	50.	1007.	2	NAD-SFC	NoSubs
11	5	3	123	11	168.6	-9.000	-9.000	-9.000	635.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.4	2.0	0	0.00	43.	1006.	2	NAD-SFC	NoSubs
11	5	3	123	12	179.3	-9.000	-9.000	-9.000	841.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.9	2.0	0	0.00	38.	1005.	2	NAD-SFC	NoSubs
11	5	3	123	13	178.7	0.120	1.717	0.005	1017.	100.	-1.0	0.2720	0.52	0.19	0.50	316.0	15.0	298.0	2.0	0	0.00	36.	1005.	2	NAD-SFC	NoSubs
11	5	3	123	14	166.7	0.232	1.754	0.005	1161.	268.	-6.7	0.2720	0.52	0.19	1.50	327.0	15.0	298.8	2.0	0	0.00	35.	1004.	2	NAD-SFC	NoSubs
11	5	3	123	15	143.3	0.290	1.720	0.006	1272.	374.	-15.2	0.2930	0.52	0.19	2.10	344.0	15.0	299.2	2.0	0	0.00	35.	1003.	2	NAD-SFC	NoSubs
11	5	3	123	16	109.8	0.375	1.605	0.006	1348.	550.	-42.9	0.2930	0.52	0.20	3.10	346.0	15.0	299.5	2.0	0	0.00	36.	1003.	2	NAD-SFC	NoSubs
11	5	3	123	17	67.5	0.361	1.377	0.006	1385.	521.	-62.4	0.2930	0.52	0.23	3.10	358.0	15.0	299.1	2.0	0	0.00	42.	1003.	2	NAD-SFC	NoSubs
11	5	3	123	18	20.1	0.337	0.922	0.006	1394.	470.	-170.3	0.2940	0.52	0.34	3.10	1.0	15.0	298.2	2.0	0	0.00	50.	1003.	2	NAD-SFC	NoSubs
11	5	3	123	19	-35.0	0.355	-9.000	-9.000	-999.	507.	114.2	0.2930	0.52	0.67	3.60	346.0	15.0	296.9	2.0	0	0.00	53.	1003.	2	NAD-SFC	NoSubs
11	5	3	123	20	-42.6	0.406	-9.000	-9.000	-999.	620.	140.4	0.2930	0.52	1.00	4.10	336.0	15.0	295.0	2.0	0	0.00	59.	1003.	2	NAD-SFC	NoSubs
11	5	3	123	21	-36.6	0.347	-9.000	-9.000	-999.	492.	102.0	0.2720	0.52	1.00	3.60	328.0	15.0	293.4	2.0	0	0.00	63.	1003.	2	NAD-SFC	NoSubs
11	5	3	123	22	-37.5	0.354	-9.000	-9.000	-999.	506.	106.2	0.2930	0.52	1.00	3.60	331.0	15.0	292.5	2.0	0	0.00	63.	1003.	2	NAD-SFC	NoSubs
11	5	3	123	23	-31.4	0.296	-9.000	-9.000	-999.	389.	74.1	0.2720	0.52	1.00	3.10	326.0	15.0	291.8	2.0	0	0.00	63.	1003.	2	NAD-SFC	NoSubs
11	5	3	123	24	-24.9	0.246	-9.000	-9.000	-999.	294.	53.4	0.2720	0.52	1.00	2.60	326.0	15.0	290.8	2.0	0	0.00	64.	1002.	2	NAD-SFC	NoSubs
11	5	4	124	1	-4.0	0.102	-9.000	-9.000	-999.	96.	23.6	0.2930	0.52	1.00	1.00	337.0	15.0	290.0	2.0	0	0.00	66.	1003.	2	NAD-SFC	NoSubs
11	5	4	124	2	-1.6	0.083	-9.000	-9.000	-999.	58.	31.9	0.2720	0.52	1.00	0.50	300.0	15.0	289.4	2.0	0	0.00	66.	1003.	2	NAD-SFC	NoSubs
11	5	4	124	3	-7.2	0.129	-9.000	-9.000	-999.	111.	26.4	0.2160	0.52	1.00	1.50	287.0	15.0	288.8	2.0	0	0.00	66.	1003.	2	NAD-SFC	NoSubs
11	5	4	124	4	-22.5	0.230	-9.000	-9.000	-999.	265.	48.6	0.2160	0.52	1.00	2.60	294.0	15.0	288.0	2.0	0	0.00	66.	1003.	2	NAD-SFC	NoSubs
11	5	4	124	5	-14.4	0.183	-9.000	-9.000	-999.	188.	37.8	0.2160	0.52	1.00	2.10	282.0	15.0	287.4	2.0	0	0.00	66.	1003.	2	NAD-SFC	NoSubs
11	5	4	124	6	-11.8	0.175	-9.000	-9.000	-999.	175.	40.4	0.1750	0.52	0.57	2.10	257.0	15.0	287.1	2.0	0	0.00	64.	1004.	2	NAD-SFC	NoSubs
11	5	4	124	7	26.5	0.233	0.433	0.008	109.	270.	-42.7	0.2160	0.52	0.30	2.10	296.0	15.0	288.5	2.0	0	0.00	55.	1005.	2	NAD-SFC	NoSubs
11	5	4	124	8	73.6	0.101	0.753	0.009	208.	90.	-1.3	0.2160	0.52	0.22	0.50	299.0	15.0	290.2	2.0	0	0.00	48.	1005.	2	NAD-SFC	NoSubs
11	5	4	124	9	114.9	0.103	1.037	0.006	348.	79.	-1.0	0.1750	0.52	0.20	0.50	269.0	15.0	292.5	2.0	0	0.00	40.	1005.	2	NAD-SFC	NoSubs
11	5	4	124	10	147.2	0.111	1.287	0.005	519.	89.	-1.0	0.2160	0.52	0.19	0.50	284.0	15.0	294.2	2.0	0	0.00	37.	1005.	2	NAD-SFC	NoSubs
11	5	4	124	11	169.4	-9.000	-9.000	-9.000	717.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.4	2.0	0	0.00	33.	1004.	2	NAD-SFC	NoSubs
11	5	4	124	12	180.2	0.120	1.702	0.010	981.	100.	-1.0	0.2720	0.52	0.19	0.50	316.0	15.0	298.2	2.0	0	0.00	30.	1003.	2	NAD-SFC	NoSubs
11	5	4	124	13	179.8	0.184	1.742	0.010	1053.	190.	-3.1	0.2930	0.52	0.19	1.00	348.0	15.0	299.8	2.0	0	0.00	28.	1003.	2	NAD-SFC	NoSubs
11	5	4	124	14	168.0	0.183	1.737	0.010	1118.	188.	-3.3	0.2940	0.52	0.19	1.00	5.0	15.0	300.8	2.0	0	0.00	27.	1002.	2	NAD-SFC	NoSubs
11	5	4	124	15	144.7	0.232	1.679	0.009	1170.	268.	-7.7	0.2940	0.52	0.19	1.50	1.0	15.0	301.4	2.0	0	0.00	27.	1002.	2	NAD-SFC	NoSubs
11	5	4	124	16	111.3	0.329	1.555	0.009	1208.	453.	-28.6	0.2940	0.52	0.20	2.60	12.0	15.0	301.8	2.0	0	0.00	28.	1002.	2	NAD-SFC	NoSubs
11	5	4	124	17	68.9	0.316	1.334	0.009	1231.	427.	-40.9	0.2940	0.52	0.23	2.60	11.0	15.0	301.1	2.0	0	0.00	36.	1001.	2	NAD-SFC	NoSubs
11	5	4	124	18	21.6	0.291	0.908	0.009	1236.	378.	-102.3	0.2940	0.52	0.34	2.60	8.0	15.0	300.4	2.0	0	0.00	42.	1002.	2	NAD-SFC	NoSubs
11	5	4	124	19	-24.3	0.252	-9.000	-9.000	-999.	305.	59.0	0.2930	0.52	0.66	2.60	358.0	15.0	299.2	2.0	0	0.00	43.	1002.	2	NAD-SFC	NoSubs
11	5	4	124	20	-4.0	0.102	-9.000	-9.000	-999.	98.	23.7	0.2930	0.52	1.00	1.00	340.0	15.0	297.8	2.0	0	0.00	47.	1002.	2	NAD-SFC	NoSubs
11	5	4	124	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	296.2	2.0	0	0.00	53.	1003.	2	NAD-SFC	NoSubs

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11  5  4 124 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 294.6  2.0   0  0.00  59. 1003.   2 NAD-SFC NoSubs
11  5  4 124 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 293.4  2.0   0  0.00  64. 1003.   2 NAD-SFC NoSubs
11  5  4 124 24   -1.6  0.082 -9.000 -9.000 -999.  57.     31.7 0.2470  0.52  1.00  0.50  48.0  15.0 292.2  2.0   0  0.00  68. 1003.   2 NAD-SFC NoSubs
11  5  5 125  1   -1.6  0.082 -9.000 -9.000 -999.  57.     31.7 0.2470  0.52  1.00  0.50  47.0  15.0 291.5  2.0   0  0.00  69. 1003.   2 NAD-SFC NoSubs
11  5  5 125  2   -1.5  0.081 -9.000 -9.000 -999.  55.     31.4 0.2160  0.52  1.00  0.50 272.0  15.0 290.9  2.0   0  0.00  69. 1003.   2 NAD-SFC NoSubs
11  5  5 125  3  -14.4  0.183 -9.000 -9.000 -999. 188.     38.1 0.2160  0.52  1.00  2.10 275.0  15.0 290.4  2.0   0  0.00  69. 1004.   2 NAD-SFC NoSubs
11  5  5 125  4  -29.7  0.278 -9.000 -9.000 -999. 352.     64.8 0.2160  0.52  1.00  3.10 281.0  15.0 290.1  2.0   0  0.00  65. 1004.   2 NAD-SFC NoSubs
11  5  5 125  5  -34.8  0.325 -9.000 -9.000 -999. 445.     88.3 0.2160  0.52  1.00  3.60 298.0  15.0 289.0  2.0   0  0.00  64. 1004.   2 NAD-SFC NoSubs
11  5  5 125  6  -20.3  0.248 -9.000 -9.000 -999. 299.     67.4 0.2720  0.52  0.56  2.60 304.0  15.0 288.2  2.0   0  0.00  63. 1005.   2 NAD-SFC NoSubs
11  5  5 125  7   27.6  0.290  0.405  0.007  86.  376.    -79.5 0.2720  0.52  0.30  2.60 323.0  15.0 289.9  2.0   0  0.00  56. 1005.   2 NAD-SFC NoSubs
11  5  5 125  8   74.6  0.212  0.718  0.008 178.  236.    -11.4 0.2720  0.52  0.22  1.50 314.0  15.0 291.6  2.0   0  0.00  50. 1005.   2 NAD-SFC NoSubs
11  5  5 125  9  115.9  0.107  1.004  0.008 312.  90.      -1.0 0.2160  0.52  0.20  0.50 293.0  15.0 294.1  2.0   0  0.00  45. 1004.   2 NAD-SFC NoSubs
11  5  5 125 10  148.7 -9.000 -9.000 -9.000 496. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 297.0  2.0   0  0.00  38. 1004.   2 NAD-SFC NoSubs
11  5  5 125 11  171.0 -9.000 -9.000 -9.000 694. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 299.2  2.0   0  0.00  31. 1003.   2 NAD-SFC NoSubs
11  5  5 125 12  181.9 -9.000 -9.000 -9.000 833. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 301.2  2.0   0  0.00  27. 1002.   2 NAD-SFC NoSubs
11  5  5 125 13  181.6 -9.000 -9.000 -9.000 952. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 302.8  2.0   0  0.00  24. 1001.   2 NAD-SFC NoSubs
11  5  5 125 14  169.8  0.121  1.710  0.007 1053.  101.    -1.0 0.2930  0.52  0.19  0.50 341.0  15.0 303.8  2.0   0  0.00  23. 1001.   2 NAD-SFC NoSubs
11  5  5 125 15  146.6  0.291  1.670  0.006 1134.  376.   -15.0 0.2940  0.52  0.19  2.10   5.0  15.0 304.2  2.0   0  0.00  24. 1000.   2 NAD-SFC NoSubs
11  5  5 125 16  113.0 -9.000 -9.000 -9.000 1192. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 304.2  2.0   0  0.00  25. 1000.   2 NAD-SFC NoSubs
11  5  5 125 17   70.4  0.363  1.341  0.006 1224.  524.   -60.4 0.2940  0.52  0.23  3.10  10.0  15.0 303.0  2.0   0  0.00  38. 1000.   2 NAD-SFC NoSubs
11  5  5 125 18   22.9 -9.000 -9.000 -9.000 1232. -999. -99999.0 0.2235  0.52  0.33  0.00   0.0  15.0 301.9  2.0   0  0.00  42. 1000.   2 NAD-SFC NoSubs
11  5  5 125 19  -23.8  0.252 -9.000 -9.000 -999.  304.    60.4 0.2930  0.52  0.65  2.60 333.0  15.0 301.0  2.0   0  0.00  41. 1001.   2 NAD-SFC NoSubs
11  5  5 125 20  -48.2  0.468 -9.000 -9.000 -999.  768.   189.3 0.2160  0.52  1.00  5.10 277.0  15.0 299.4  2.0   0  0.00  43. 1001.   2 NAD-SFC NoSubs
11  5  5 125 21  -46.3  0.443 -9.000 -9.000 -999.  708.   167.6 0.1750  0.52  1.00  5.10 269.0  15.0 295.5  2.0   0  0.00  53. 1001.   2 NAD-SFC NoSubs
11  5  5 125 22  -39.2  0.372 -9.000 -9.000 -999.  549.   117.9 0.2160  0.52  1.00  4.10 272.0  15.0 294.0  2.0   0  0.00  56. 1002.   2 NAD-SFC NoSubs
11  5  5 125 23  -34.3  0.325 -9.000 -9.000 -999.  447.    89.7 0.2160  0.52  1.00  3.60 284.0  15.0 293.2  2.0   0  0.00  59. 1002.   2 NAD-SFC NoSubs
11  5  5 125 24  -36.6  0.347 -9.000 -9.000 -999.  490.   101.8 0.2720  0.52  1.00  3.60 308.0  15.0 292.9  2.0   0  0.00  63. 1002.   2 NAD-SFC NoSubs
11  5  6 126  1  -32.1  0.303 -9.000 -9.000 -999.  401.    77.5 0.2930  0.52  1.00  3.10 335.0  15.0 292.1  2.0   0  0.00  68. 1002.   2 NAD-SFC NoSubs
11  5  6 126  2   -8.0  0.137 -9.000 -9.000 -999.  146.    28.7 0.2720  0.52  1.00  1.50 312.0  15.0 291.2  2.0   0  0.00  71. 1002.   2 NAD-SFC NoSubs
11  5  6 126  3   -7.2  0.129 -9.000 -9.000 -999.  111.    26.5 0.2160  0.52  1.00  1.50 277.0  15.0 290.6  2.0   0  0.00  73. 1002.   2 NAD-SFC NoSubs
11  5  6 126  4   -3.6  0.097 -9.000 -9.000 -999.   72.    22.4 0.2160  0.52  1.00  1.00 293.0  15.0 290.0  2.0   0  0.00  74. 1002.   2 NAD-SFC NoSubs
11  5  6 126  5   -3.9  0.101 -9.000 -9.000 -999.   77.    23.3 0.2720  0.52  1.00  1.00 300.0  15.0 289.4  2.0   0  0.00  76. 1002.   2 NAD-SFC NoSubs
11  5  6 126  6   -1.2  0.072 -9.000 -9.000 -999.   46.    28.6 0.2160  0.52  0.55  0.50 288.0  15.0 288.9  2.0   0  0.00  78. 1003.   2 NAD-SFC NoSubs
11  5  6 126  7   28.3  0.195  0.502  0.013 159.  207.    -23.4 0.2930  0.52  0.30  1.50 352.0  15.0 290.0  2.0   0  0.00  73. 1003.   2 NAD-SFC NoSubs
11  5  6 126  8   75.3 -9.000 -9.000 -9.000 265. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 291.8  2.0   0  0.00  67. 1002.   2 NAD-SFC NoSubs
11  5  6 126  9  116.3 -9.000 -9.000 -9.000 353. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 293.8  2.0   0  0.00  58. 1002.   2 NAD-SFC NoSubs
11  5  6 126 10  148.7 -9.000 -9.000 -9.000 480. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 295.6  2.0   0  0.00  52. 1001.   2 NAD-SFC NoSubs
11  5  6 126 11  170.6 -9.000 -9.000 -9.000 618. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 297.2  2.0   0  0.00  46. 1001.   2 NAD-SFC NoSubs
11  5  6 126 12  181.3 -9.000 -9.000 -9.000 746. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 299.0  2.0   0  0.00  41. 1000.   2 NAD-SFC NoSubs
11  5  6 126 13  180.9  0.120  1.633  0.007 859.  100.    -1.0 0.2720  0.52  0.19  0.50 314.0  15.0 300.5  2.0   0  0.00  36.  999.   2 NAD-SFC NoSubs
11  5  6 126 14  169.1  0.183  1.653  0.006 952.  188.    -3.2 0.2930  0.52  0.19  1.00 340.0  15.0 301.4  2.0   0  0.00  33.  998.   2 NAD-SFC NoSubs
11  5  6 126 15  145.8  0.338  1.622  0.006 1044.  471.   -23.5 0.2930  0.52  0.19  2.60 348.0  15.0 301.9  2.0   0  0.00  31.  998.   2 NAD-SFC NoSubs
11  5  6 126 16  112.3 -9.000 -9.000 -9.000 1114. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 301.9  2.0   0  0.00  32.  997.   2 NAD-SFC NoSubs
11  5  6 126 17   70.0  0.362  1.314  0.005 1153.  524.   -60.5 0.2940  0.52  0.23  3.10  12.0  15.0 301.1  2.0   0  0.00  41.  997.   2 NAD-SFC NoSubs
11  5  6 126 18   22.6 -9.000 -9.000 -9.000 1164. -999. -99999.0 0.2235  0.52  0.33  0.00   0.0  15.0 300.2  2.0   0  0.00  47.  997.   2 NAD-SFC NoSubs
11  5  6 126 19  -33.3  0.355 -9.000 -9.000 -999.  508.   119.8 0.2930  0.52  0.65  3.60 354.0  15.0 299.4  2.0   0  0.00  47.  998.   2 NAD-SFC NoSubs
11  5  6 126 20  -41.0  0.397 -9.000 -9.000 -999.  600.   135.8 0.2720  0.52  1.00  4.10 323.0  15.0 297.9  2.0   0  0.00  50.  998.   2 NAD-SFC NoSubs
11  5  6 126 21  -38.9  0.373 -9.000 -9.000 -999.  546.   118.4 0.2160  0.52  1.00  4.10 288.0  15.0 295.2  2.0   0  0.00  63.  999.   2 NAD-SFC NoSubs
11  5  6 126 22  -33.3  0.325 -9.000 -9.000 -999.  447.    92.2 0.2160  0.52  1.00  3.60 281.0  15.0 293.5  2.0   0  0.00  72.  999.   3 NAD-SFC NoSubs
11  5  6 126 23  -35.7  0.347 -9.000 -9.000 -999.  490.   104.4 0.2720  0.52  1.00  3.60 301.0  15.0 292.4  2.0   0  0.00  76. 1000.   3 NAD-SFC NoSubs
11  5  6 126 24  -35.8  0.347 -9.000 -9.000 -999.  490.   103.9 0.2720  0.52  1.00  3.60 318.0  15.0 291.2  2.0   0  0.00  76. 1000.   3 NAD-SFC NoSubs
11  5  7 127  1  -30.8  0.297 -9.000 -9.000 -999.  389.    75.7 0.2720  0.52  1.00  3.10 324.0  15.0 290.2  2.0   0  0.00  76. 1001.   3 NAD-SFC NoSubs
11  5  7 127  2  -24.6  0.246 -9.000 -9.000 -999.  294.    54.1 0.2720  0.52  1.00  2.60 328.0  15.0 289.6  2.0   0  0.00  75. 1001.   3 NAD-SFC NoSubs
11  5  7 127  3  -15.8  0.195 -9.000 -9.000 -999.  208.    42.2 0.2720  0.52  1.00  2.10 322.0  15.0 289.1  2.0   0  0.00  75. 1001.   3 NAD-SFC NoSubs
11  5  7 127  4   -7.9  0.137 -9.000 -9.000 -999.  122.    28.9 0.2720  0.52  1.00  1.50 321.0  15.0 288.5  2.0   0  0.00  76. 1001.   3 NAD-SFC NoSubs
11  5  7 127  5   -4.0  0.102 -9.000 -9.000 -999.   78.    23.6 0.2930  0.52  1.00  1.00 343.0  15.0 287.9  2.0   0  0.00  76. 1001.   3 NAD-SFC NoSubs
11  5  7 127  6   -3.0  0.095 -9.000 -9.000 -999.   70.    25.5 0.2930  0.52  0.55  1.00 357.0  15.0 287.5  2.0   0  0.00  77. 1002.   4 NAD-SFC NoSubs
11  5  7 127  7   30.3  0.252  0.602  0.008 257.  303.    -47.0 0.2940  0.52  0.30  2.10   5.0  15.0 288.2  2.0   0  0.00  68. 1002.   4 NAD-SFC NoSubs
11  5  7 127  8   75.6  0.165  0.969  0.009 429.  164.    -5.3 0.2930  0.52  0.22  1.00 342.0  15.0 289.4  2.0   0  0.00  64. 1002.   4 NAD-SFC NoSubs
11  5  7 127  9  116.4 -9.000 -9.000 -9.000 532. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 290.9  2.0   0  0.00  59. 1002.   3 NAD-SFC NoSubs
11  5  7 127 10  148.1 -9.000 -9.000 -9.000 639. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 292.5  2.0   0  0.00  55. 1002.   3 NAD-SFC NoSubs
11  5  7 127 11  169.8 -9.000 -9.000 -9.000 769. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 294.2  2.0   0  0.00  51. 1001.   3 NAD-SFC NoSubs
11  5  7 127 12  180.3  0.114  1.650  0.007 890.  93.      -1.0 0.2160  0.52  0.19  0.50 296.0  15.0 295.6  2.0   0  0.00  46. 1001.   2 NAD-SFC NoSubs
11  5  7 127 13  179.4  0.181  1.714  0.007 1002.  186.    -3.0 0.2720  0.52  0.19  1.00 327.0  15.0 296.8  2.0   0  0.00  41. 1000.   3 NAD-SFC NoSubs
11  5  7 127 14  167.7  0.295  1.732  0.007 1107.  384.   -13.6 0.2930  0.52  0.19  2.10 354.0  15.0 297.6  2.0   0  0.00  38.  999.   3 NAD-SFC NoSubs
11  5  7 127 15  144.6  0.383  1.689  0.006 1189.  569.   -34.7 0.2930  0.52  0.19  3.10 359.0  15.0 298.1  2.0   0  0.00  36.  999.   3 NAD-SFC NoSubs
11  5  7 127 16  111.4  0.467  1.574  0.006 1248.  765.   -81.3 0.2930  0.52  0.20  4.10 356.0  15.0 298.0  2.0   0  0.00  37.  999.   3 NAD-SFC NoSubs
11  5  7 127 17   69.6 -9.000 -9.000 -9.000 1282. -999. -99999.0 0.2235  0.52  0.23  0.00   0.0  15.0 297.2  2.0   0  0.00  43.  999.   3 NAD-SFC NoSubs
11  5  7 127 18   22.6  0.386  0.935  0.007 1289.  575.   -226.2 0.2930  0.52  0.33  3.60 359.0  15.0 295.8  2.0   0  0.00  56. 1000.   3 NAD-SFC NoSubs
11  5  7 127 19  -36.9  0.398 -9.000 -9.000 -999.  602.   152.5 0.2720  0.52  0.64  4.10 326.0  15.0 293.8  2.0   0  0.00  61. 1000.   3 NAD-SFC NoSubs
11  5  7 127 20  -41.0  0.397 -9.000 -9.000 -999.  601.   136.5 0.2720  0.52  1.00  4.10 319.0  15.0 291.8  2.0   0  0.00  67. 1001.   3 NAD-SFC NoSubs
11  5  7 127 21  -36.0  0.347 -9.000 -9.000 -999.  492.   103.7 0.2720  0.52  1.00  3.60 311.0  15.0 290.5  2.0   0  0.00  72. 1002.   3 NAD-SFC NoSubs
11  5  7 127 22  -33.8  0.325 -9.000 -9.000 -999.  446.    90.9 0.2160  0.52  1.00  3.60 288.0  15.0 289.5  2.0   0  0.00  75. 1002.   3 NAD-SFC NoSubs
11  5  7 127 23  -34.0  0.325 -9.000 -9.000 -999.  445.    90.6 0.2160  0.52  1.00  3.60 276.0  15.0 288.5  2.0   0  0.00  78. 1003.   3 NAD-SFC NoSubs
11  5  7 127 24  -28.1  0.278 -9.000 -9.000 -999.  353.    68.6 0.2160  0.52  1.00  3.10 283.0  15.0 287.6  2.0   0  0.00  80. 1003.   4 NAD-SFC NoSubs
11  5  8 128  1  -28.1  0.278 -9.000 -9.000 -999.  352.    68.5 0.2160  0.52  1.00  3.10 283.0  15.0 287.2  2.0   0  0.00  81. 1003.   4 NAD-SFC NoSubs
11  5  8 128  2  -23.2  0.280 -9.000 -9.000 -999.  355.    84.2 0.2160  0.52  1.00  3.10 278.0  15.0 287.0  2.0   0  0.00  80. 1003.   7 NAD-SFC NoSubs
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11  5  8 128  3  -15.5  0.282 -9.000 -9.000 -999.  360.    129.4  0.2160  0.52  1.00  3.10  277.0  15.0  286.9  2.0   0  0.00   81.  1003.   10 NAD-SFC NoSubs
11  5  8 128  4  -15.5  0.282 -9.000 -9.000 -999.  360.    129.3  0.2160  0.52  1.00  3.10  289.0  15.0  286.8  2.0   0  0.00   81.  1003.   10 NAD-SFC NoSubs
11  5  8 128  5  -15.5  0.282 -9.000 -9.000 -999.  360.    129.2  0.2160  0.52  1.00  3.10  297.0  15.0  286.4  2.0   0  0.00   82.  1003.   10 NAD-SFC NoSubs
11  5  8 128  6  -12.9  0.283 -9.000 -9.000 -999.  362.    157.2  0.2160  0.52  0.54  3.10  296.0  15.0  286.1  2.0   0  0.00   83.  1003.   10 NAD-SFC NoSubs
11  5  8 128  7    4.6  0.364  0.376  0.005  415.  528.   -945.4  0.2720  0.52  0.30  3.60  309.0  15.0  286.0  2.0   0  0.00   81.  1004.   10 NAD-SFC NoSubs
11  5  8 128  8   75.4  0.494  1.137  0.006  699.  834.   -143.4  0.2720  0.52  0.22  4.60  316.0  15.0  285.9  2.0   0  0.00   73.  1004.    4 NAD-SFC NoSubs
11  5  8 128  9  115.7  0.370  1.398  0.006  846.  553.    -39.3  0.2720  0.52  0.20  3.10  320.0  15.0  286.2  2.0   0  0.00   69.  1004.    3 NAD-SFC NoSubs
11  5  8 128 10  145.3  0.232  1.591  0.007  993.  282.     -7.7  0.2930  0.52  0.19  1.50  334.0  15.0  287.5  2.0   0  0.00   61.  1003.    4 NAD-SFC NoSubs
11  5  8 128 11  160.8  0.182  1.702  0.007 1099.  187.     -3.3  0.2930  0.52  0.19  1.00  346.0  15.0  289.1  2.0   0  0.00   54.  1003.    5 NAD-SFC NoSubs
11  5  8 128 12  176.2 -9.000 -9.000 -9.000 1205. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  290.2  2.0   0  0.00   48.  1002.    4 NAD-SFC NoSubs
11  5  8 128 13  175.3 -9.000 -9.000 -9.000 1301. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  290.8  2.0   0  0.00   46.  1002.    4 NAD-SFC NoSubs
11  5  8 128 14  163.6 -9.000 -9.000 -9.000 1376. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  291.1  2.0   0  0.00   46.  1001.    4 NAD-SFC NoSubs
11  5  8 128 15  140.9  0.566  1.780  0.008 1431. 1023.   -115.1  0.2930  0.52  0.19  5.10  356.0  15.0  291.2  2.0   0  0.00   46.  1001.    4 NAD-SFC NoSubs
11  5  8 128 16  108.3  0.615  1.645  0.008 1471. 1156.   -191.9  0.2930  0.52  0.20  5.70  346.0  15.0  290.8  2.0   0  0.00   48.  1001.    4 NAD-SFC NoSubs
11  5  8 128 17   65.9  0.652  1.402  0.008 1494. 1262.   -375.4  0.2930  0.52  0.23  6.20  348.0  15.0  290.0  2.0   0  0.00   52.  1001.    5 NAD-SFC NoSubs
11  5  8 128 18   22.0  0.433  0.973  0.009 1499.  733.   -330.0  0.2930  0.52  0.33  4.10  352.0  15.0  288.9  2.0   0  0.00   63.  1002.    5 NAD-SFC NoSubs
11  5  8 128 19  -33.7  0.461 -9.000 -9.000 -999.  751.    259.9  0.2930  0.52  0.63  4.60  336.0  15.0  287.5  2.0   0  0.00   69.  1003.    7 NAD-SFC NoSubs
11  5  8 128 20  -22.2  0.402 -9.000 -9.000 -999.  615.    262.5  0.2720  0.52  1.00  4.10  319.0  15.0  286.2  2.0   0  0.00   74.  1003.   10 NAD-SFC NoSubs
11  5  8 128 21  -16.6  0.301 -9.000 -9.000 -999.  402.    146.4  0.2720  0.52  1.00  3.10  315.0  15.0  285.8  2.0   0  0.00   76.  1004.   10 NAD-SFC NoSubs
11  5  8 128 22  -13.9  0.250 -9.000 -9.000 -999.  302.    101.3  0.2720  0.52  1.00  2.60  312.0  15.0  285.2  2.0   0  0.00   77.  1004.   10 NAD-SFC NoSubs
11  5  8 128 23  -13.9  0.250 -9.000 -9.000 -999.  301.    101.1  0.2720  0.52  1.00  2.60  301.0  15.0  284.8  2.0   0  0.00   77.  1004.   10 NAD-SFC NoSubs
11  5  8 128 24  -13.0  0.235 -9.000 -9.000 -999.  273.     89.0  0.2160  0.52  1.00  2.60  292.0  15.0  284.6  2.0   0  0.00   78.  1004.   10 NAD-SFC NoSubs
11  5  9 129  1  -19.5  0.232 -9.000 -9.000 -999.  269.     57.5  0.2160  0.52  1.00  2.60  292.0  15.0  283.9  2.0   0  0.00   80.  1004.    7 NAD-SFC NoSubs
11  5  9 129  2  -21.3  0.280 -9.000 -9.000 -999.  356.     92.7  0.2160  0.52  1.00  3.10  295.0  15.0  283.1  2.0   0  0.00   81.  1004.    8 NAD-SFC NoSubs
11  5  9 129  3  -15.8  0.282 -9.000 -9.000 -999.  360.    127.4  0.2160  0.52  1.00  3.10  293.0  15.0  282.8  2.0   0  0.00   79.  1004.   10 NAD-SFC NoSubs
11  5  9 129  4  -16.8  0.301 -9.000 -9.000 -999.  396.    145.0  0.2720  0.52  1.00  3.10  305.0  15.0  283.1  2.0   0  0.00   78.  1004.   10 NAD-SFC NoSubs
11  5  9 129  5  -13.1  0.235 -9.000 -9.000 -999.  275.     88.6  0.2160  0.52  1.00  2.60  299.0  15.0  283.4  2.0   0  0.00   78.  1004.   10 NAD-SFC NoSubs
11  5  9 129  6   -8.7  0.189 -9.000 -9.000 -999.  197.     68.8  0.2160  0.52  0.53  2.10  293.0  15.0  283.6  2.0   0  0.00   78.  1004.   10 NAD-SFC NoSubs
11  5  9 129  7   29.0  0.337  0.609  0.005  278.  469.   -118.0  0.2720  0.52  0.30  3.10  306.0  15.0  284.1  2.0   0  0.00   73.  1004.    6 NAD-SFC NoSubs
11  5  9 129  8   75.8  0.358  1.128  0.005  679.  514.    -54.2  0.2720  0.52  0.22  3.10  326.0  15.0  285.4  2.0   0  0.00   64.  1004.    4 NAD-SFC NoSubs
11  5  9 129  9  115.0  0.330  1.435  0.005  922.  455.    -27.9  0.2930  0.52  0.20  2.60  335.0  15.0  286.6  2.0   0  0.00   57.  1004.    4 NAD-SFC NoSubs
11  5  9 129 10  145.8  0.286  1.643  0.006 1092.  367.    -14.3  0.2720  0.52  0.19  2.10  326.0  15.0  287.9  2.0   0  0.00   50.  1004.    4 NAD-SFC NoSubs
11  5  9 129 11  169.0  0.295  1.803  0.007 1244.  384.    -13.6  0.2930  0.52  0.19  2.10  331.0  15.0  289.2  2.0   0  0.00   44.  1004.    3 NAD-SFC NoSubs
11  5  9 129 12  179.1  0.339  1.897  0.008 1365.  473.    -19.4  0.2720  0.52  0.19  2.60  326.0  15.0  290.5  2.0   0  0.00   39.  1003.    3 NAD-SFC NoSubs
11  5  9 129 13  178.4  0.437  1.926  0.008 1435.  692.    -41.7  0.2930  0.52  0.19  3.60  333.0  15.0  291.6  2.0   0  0.00   34.  1002.    3 NAD-SFC NoSubs
11  5  9 129 14  166.6  0.572  1.911  0.008 1497. 1037.   -100.1  0.2930  0.52  0.19  5.10  336.0  15.0  292.4  2.0   0  0.00   31.  1001.    2 NAD-SFC NoSubs
11  5  9 129 15  143.3  0.623  1.838  0.008 1549. 1179.   -150.6  0.2930  0.52  0.19  5.70  342.0  15.0  292.8  2.0   0  0.00   29.  1000.    2 NAD-SFC NoSubs
11  5  9 129 16  110.0  0.663  1.697  0.008 1587. 1293.   -236.1  0.2930  0.52  0.20  6.20  340.0  15.0  293.0  2.0   0  0.00   28.  1000.    2 NAD-SFC NoSubs
11  5  9 129 17   68.2  0.501  1.455  0.008 1610.  877.   -163.8  0.2930  0.52  0.23  4.60  338.0  15.0  292.8  2.0   0  0.00   32.   999.    2 NAD-SFC NoSubs
11  5  9 129 18   21.2  0.291  0.987  0.008 1616.  422.   -103.3  0.2930  0.52  0.33  2.60  344.0  15.0  292.1  2.0   0  0.00   40.   999.    2 NAD-SFC NoSubs
11  5  9 129 19  -15.7  0.201 -9.000 -9.000 -999.  223.     45.9  0.2930  0.52  0.63  2.10  338.0  15.0  291.8  2.0   0  0.00   38.   999.    2 NAD-SFC NoSubs
11  5  9 129 20   -8.0  0.137 -9.000 -9.000 -999.  123.     28.7  0.2720  0.52  1.00  1.50  307.0  15.0  290.8  2.0   0  0.00   39.   999.    2 NAD-SFC NoSubs
11  5  9 129 21   -7.2  0.129 -9.000 -9.000 -999.  111.     26.4  0.2160  0.52  1.00  1.50  273.0  15.0  289.9  2.0   0  0.00   39.   999.    2 NAD-SFC NoSubs
11  5  9 129 22  -39.9  0.372 -9.000 -9.000 -999.  545.    115.4  0.2160  0.52  1.00  4.10  270.0  15.0  288.0  2.0   0  0.00   44.  1000.    2 NAD-SFC NoSubs
11  5  9 129 23  -45.2  0.420 -9.000 -9.000 -999.  652.    145.8  0.2160  0.52  1.00  4.60  289.0  15.0  286.4  2.0   0  0.00   54.  1000.    2 NAD-SFC NoSubs
11  5  9 129 24  -42.9  0.397 -9.000 -9.000 -999.  601.    129.9  0.2720  0.52  1.00  4.10  303.0  15.0  285.5  2.0   0  0.00   60.  1000.    2 NAD-SFC NoSubs
11  5 10 130  1  -37.5  0.347 -9.000 -9.000 -999.  491.     98.9  0.2720  0.52  1.00  3.60  301.0  15.0  285.0  2.0   0  0.00   61.  1000.    2 NAD-SFC NoSubs
11  5 10 130  2  -35.3  0.325 -9.000 -9.000 -999.  445.     86.9  0.2160  0.52  1.00  3.60  295.0  15.0  284.5  2.0   0  0.00   62.  1001.    2 NAD-SFC NoSubs
11  5 10 130  3  -35.4  0.325 -9.000 -9.000 -999.  445.     86.6  0.2160  0.52  1.00  3.60  286.0  15.0  283.8  2.0   0  0.00   64.  1001.    2 NAD-SFC NoSubs
11  5 10 130  4  -30.3  0.278 -9.000 -9.000 -999.  352.     63.1  0.2160  0.52  1.00  3.10  288.0  15.0  283.1  2.0   0  0.00   65.  1002.    2 NAD-SFC NoSubs
11  5 10 130  5  -14.5  0.183 -9.000 -9.000 -999.  191.     37.5  0.2160  0.52  1.00  2.10  296.0  15.0  282.6  2.0   0  0.00   66.  1002.    2 NAD-SFC NoSubs
11  5 10 130  6   -6.7  0.138 -9.000 -9.000 -999.  123.     34.6  0.2720  0.52  0.53  1.50  306.0  15.0  282.4  2.0   0  0.00   67.  1003.    2 NAD-SFC NoSubs
11  5 10 130  7   29.6  0.297  0.414  0.005   86.  388.    -78.8  0.2930  0.52  0.29  2.60  340.0  15.0  284.8  2.0   0  0.00   57.  1003.    2 NAD-SFC NoSubs
11  5 10 130  8   76.4  0.319  0.835  0.005  273.  432.    -37.9  0.2930  0.52  0.22  2.60  352.0  15.0  287.2  2.0   0  0.00   45.  1004.    2 NAD-SFC NoSubs
11  5 10 130  9  116.9  0.226  1.147  0.005  463.  262.     -8.9  0.2930  0.52  0.20  1.50  354.0  15.0  288.9  2.0   0  0.00   40.  1004.    2 NAD-SFC NoSubs
11  5 10 130 10  148.7  0.119  1.399  0.005  659.  105.     -1.0  0.2930  0.52  0.19  0.50  333.0  15.0  290.5  2.0   0  0.00   35.  1004.    2 NAD-SFC NoSubs
11  5 10 130 11  170.3  0.119  1.619  0.005  893.   99.     -1.0  0.2720  0.52  0.19  0.50  315.0  15.0  292.0  2.0   0  0.00   32.  1003.    2 NAD-SFC NoSubs
11  5 10 130 12  180.5  0.182  1.769  0.005 1098.  186.     -3.0  0.2720  0.52  0.19  1.00  320.0  15.0  293.2  2.0   0  0.00   29.  1002.    2 NAD-SFC NoSubs
11  5 10 130 13  179.9  0.234  1.858  0.005 1276.  272.     -6.4  0.2720  0.52  0.19  1.50  328.0  15.0  294.5  2.0   0  0.00   28.  1001.    2 NAD-SFC NoSubs
11  5 10 130 14  167.9  0.295  1.880  0.005 1415.  384.    -13.6  0.2930  0.52  0.19  2.10  338.0  15.0  295.2  2.0   0  0.00   27.  1001.    2 NAD-SFC NoSubs
11  5 10 130 15  144.7  0.290  1.833  0.005 1521.  376.    -15.1  0.2940  0.52  0.19  2.10    2.0  15.0  295.8  2.0   0  0.00   27.  1000.    2 NAD-SFC NoSubs
11  5 10 130 16  111.4  0.376  1.707  0.005 1597.  552.    -42.4  0.2940  0.52  0.20  3.10    7.0  15.0  295.8  2.0   0  0.00   30.  1000.    2 NAD-SFC NoSubs
11  5 10 130 17   69.7  0.362  1.474  0.005 1642.  524.    -60.8  0.2940  0.52  0.23  3.10    7.0  15.0  295.6  2.0   0  0.00   32.  1000.    2 NAD-SFC NoSubs
11  5 10 130 18   22.7  0.292  1.018  0.005 1655.  382.    -97.9  0.2940  0.52  0.32  2.60   25.0  15.0  295.0  2.0   0  0.00   42.  1000.    2 NAD-SFC NoSubs
11  5 10 130 19  -23.3  0.253 -9.000 -9.000 -999.  306.     61.8  0.2940  0.52  0.62  2.60    6.0  15.0  294.2  2.0   0  0.00   43.  1000.    2 NAD-SFC NoSubs
11  5 10 130 20   -1.6  0.084 -9.000 -9.000 -999.   93.     31.9  0.2930  0.52  1.00  0.50  342.0  15.0  293.1  2.0   0  0.00   46.  1000.    2 NAD-SFC NoSubs
11  5 10 130 21   -6.5  0.122 -9.000 -9.000 -999.  103.     25.1  0.1750  0.52  1.00  1.50  243.0  15.0  291.5  2.0   0  0.00   53.  1000.    3 NAD-SFC NoSubs
11  5 10 130 22  -28.1  0.271 -9.000 -9.000 -999.  338.     63.0  0.1950  0.52  1.00  3.10  238.0  15.0  289.6  2.0   0  0.00   61.  1001.    3 NAD-SFC NoSubs
11  5 10 130 23  -13.6  0.178 -9.000 -9.000 -999.  184.     37.1  0.1950  0.52  1.00  2.10  233.0  15.0  288.6  2.0   0  0.00   65.  1001.    3 NAD-SFC NoSubs
11  5 10 130 24   -6.8  0.125 -9.000 -9.000 -999.  106.     25.6  0.1900  0.52  1.00  1.50  185.0  15.0  288.0  2.0   0  0.00   66.  1001.    3 NAD-SFC NoSubs
11  5 11 131  1   -3.5  0.095 -9.000 -9.000 -999.   70.     22.1  0.1970  0.52  1.00  1.00  137.0  15.0  287.4  2.0   0  0.00   68.  1002.    3 NAD-SFC NoSubs
11  5 11 131  2   -1.4  0.079 -9.000 -9.000 -999.   54.     31.0  0.1900  0.52  1.00  0.50  197.0  15.0  286.8  2.0   0  0.00   71.  1002.    3 NAD-SFC NoSubs
11  5 11 131  3   -7.2  0.129 -9.000 -9.000 -999.  111.     26.6  0.2160  0.52  1.00  1.50  296.0  15.0  286.2  2.0   0  0.00   74.  1003.    3 NAD-SFC NoSubs
11  5 11 131  4  -15.9  0.195 -9.000 -9.000 -999.  207.     41.9  0.2720  0.52  1.00  2.10  325.0  15.0  285.8  2.0   0  0.00   77.  1003.    3 NAD-SFC NoSubs
11  5 11 131  5  -16.5  0.200 -9.000 -9.000 -999.  214.     43.2  0.2930  0.52  1.00  2.10  332.0  15.0  285.2  2.0   0  0.00   81.  1003.    3 NAD-SFC NoSubs
11  5 11 131  6   -2.8  0.093 -9.000 -9.000 -999.   74.     25.1  0.2720  0.52  0.52  1.00  318.0  15.0  285.0  2.0   0  0.00   83.  1004.    3 NAD-SFC NoSubs
11  5 11 131  7   31.8  0.252  0.507  0.008  147.  304.    -45.3  0.2930  0.52  0.29  2.10  347.0  15.0  286.5  2.0   0  0.00   79.  1005.    3 NAD-SFC NoSubs
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11   5 11 131   8   77.9 -9.000 -9.000 -9.000  290. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 288.5  2.0    0  0.00   70. 1005.    3 NAD-SFC NoSubs
11   5 11 131   9  118.0 -9.000 -9.000 -9.000  426. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 290.2  2.0    0  0.00   62. 1005.    3 NAD-SFC NoSubs
11   5 11 131  10  149.6 -9.000 -9.000 -9.000  565. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 292.0  2.0    0  0.00   56. 1004.    2 NAD-SFC NoSubs
11   5 11 131  11  171.2 -9.000 -9.000 -9.000  712. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 293.8  2.0    0  0.00   50. 1004.    2 NAD-SFC NoSubs
11   5 11 131  12  181.5 -9.000 -9.000 -9.000  883. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 295.2  2.0    0  0.00   45. 1003.    2 NAD-SFC NoSubs
11   5 11 131  13  180.9 -9.000 -9.000 -9.000 1040. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 296.4  2.0    0  0.00   42. 1002.    2 NAD-SFC NoSubs
11   5 11 131  14  169.1  0.121  1.775  0.007 1183.  101.     -1.0 0.2930  0.52  0.19  0.50 347.0  15.0 297.4  2.0    0  0.00   39. 1002.    2 NAD-SFC NoSubs
11   5 11 131  15  146.0  0.232  1.742  0.007 1295.  269.     -7.7 0.2940  0.52  0.19  1.50  15.0  15.0 298.1  2.0    0  0.00   37. 1001.    2 NAD-SFC NoSubs
11   5 11 131  16  112.9  0.330  1.625  0.007 1360.  454.    -28.3 0.2940  0.52  0.20  2.60  12.0  15.0 298.4  2.0    0  0.00   37. 1001.    2 NAD-SFC NoSubs
11   5 11 131  17   71.2  0.409  1.403  0.007 1388.  627.    -85.6 0.2940  0.52  0.23  3.60   6.0  15.0 298.1  2.0    0  0.00   39. 1001.    2 NAD-SFC NoSubs
11   5 11 131  18   24.2  0.293  0.981  0.007 1395.  390.    -93.2 0.2940  0.52  0.32  2.60  12.0  15.0 297.4  2.0    0  0.00   48. 1002.    2 NAD-SFC NoSubs
11   5 11 131  19   -0.1 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  0.61  0.00   0.0  15.0 296.8  2.0    0  0.00   49. 1002.    3 NAD-SFC NoSubs
11   5 11 131  20  -24.4  0.246 -9.000 -9.000 -999.  293.    54.7 0.2720  0.52  1.00  2.60 314.0  15.0 295.6  2.0    0  0.00   51. 1003.    3 NAD-SFC NoSubs
11   5 11 131  21  -45.6  0.443 -9.000 -9.000 -999.  708.   170.5 0.1750  0.52  1.00  5.10 266.0  15.0 292.8  2.0    0  0.00   62. 1003.    3 NAD-SFC NoSubs
11   5 11 131  22  -48.6  0.468 -9.000 -9.000 -999.  767.   188.2 0.2160  0.52  1.00  5.10 274.0  15.0 290.2  2.0    0  0.00   72. 1004.    3 NAD-SFC NoSubs
11   5 11 131  23  -33.9  0.325 -9.000 -9.000 -999.  461.    90.9 0.2160  0.52  1.00  3.60 292.0  15.0 289.5  2.0    0  0.00   74. 1005.    3 NAD-SFC NoSubs
11   5 11 131  24  -36.2  0.347 -9.000 -9.000 -999.  490.   103.2 0.2720  0.52  1.00  3.60 318.0  15.0 289.2  2.0    0  0.00   77. 1005.    3 NAD-SFC NoSubs
11   5 12 132   1  -37.1  0.354 -9.000 -9.000 -999.  506.   107.5 0.2930  0.52  1.00  3.60 346.0  15.0 288.5  2.0    0  0.00   81. 1006.    3 NAD-SFC NoSubs
11   5 12 132   2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 287.8  2.0    0  0.00   83. 1006.    3 NAD-SFC NoSubs
11   5 12 132   3  -16.5  0.200 -9.000 -9.000 -999.  215.    43.4 0.2940  0.52  1.00  2.10  12.0  15.0 287.2  2.0    0  0.00   84. 1006.    3 NAD-SFC NoSubs
11   5 12 132   4   -8.3  0.140 -9.000 -9.000 -999.  126.    29.7 0.2940  0.52  1.00  1.50  22.0  15.0 286.8  2.0    0  0.00   85. 1006.    3 NAD-SFC NoSubs
11   5 12 132   5   -4.0  0.102 -9.000 -9.000 -999.   78.    23.7 0.2940  0.52  1.00  1.00  19.0  15.0 286.2  2.0    0  0.00   86. 1007.    3 NAD-SFC NoSubs
11   5 12 132   6   14.2 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  0.52  0.00   0.0  15.0 285.9  2.0    0  0.00   87. 1007.    3 NAD-SFC NoSubs
11   5 12 132   7   32.4  0.150  0.590  0.009  227.  139.    -9.3 0.2940  0.52  0.29  1.00   9.0  15.0 286.9  2.0    0  0.00   77. 1008.    3 NAD-SFC NoSubs
11   5 12 132   8   78.5 -9.000 -9.000 -9.000  324. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 288.8  2.0    0  0.00   69. 1008.    3 NAD-SFC NoSubs
11   5 12 132   9  118.6 -9.000 -9.000 -9.000  457. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 290.6  2.0    0  0.00   62. 1007.    3 NAD-SFC NoSubs
11   5 12 132  10  150.2 -9.000 -9.000 -9.000  621. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 292.8  2.0    0  0.00   55. 1007.    2 NAD-SFC NoSubs
11   5 12 132  11  171.9 -9.000 -9.000 -9.000  777. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 294.8  2.0    0  0.00   50. 1006.    2 NAD-SFC NoSubs
11   5 12 132  12  182.2  0.123  1.670  0.010  917.  103.     -1.0 0.2930  0.52  0.19  0.50 332.0  15.0 296.2  2.0    0  0.00   46. 1005.    2 NAD-SFC NoSubs
11   5 12 132  13  181.6  0.122  1.726  0.010 1016.  103.     -1.0 0.2930  0.52  0.19  0.50 335.0  15.0 297.4  2.0    0  0.00   44. 1004.    2 NAD-SFC NoSubs
11   5 12 132  14  169.8  0.183  1.725  0.010 1084.  188.     -3.2 0.2930  0.52  0.19  1.00 336.0  15.0 298.2  2.0    0  0.00   42. 1004.    2 NAD-SFC NoSubs
11   5 12 132  15  146.7  0.232  1.672  0.010 1141.  268.     -7.6 0.2930  0.52  0.19  1.50 354.0  15.0 298.9  2.0    0  0.00   41. 1003.    2 NAD-SFC NoSubs
11   5 12 132  16  113.6  0.284  1.554  0.010 1183.  362.    -18.0 0.2940  0.52  0.20  2.10   5.0  15.0 299.2  2.0    0  0.00   41. 1003.    2 NAD-SFC NoSubs
11   5 12 132  17   72.1  0.363  1.344  0.010 1208.  525.    -59.4 0.2940  0.52  0.23  3.10  13.0  15.0 299.1  2.0    0  0.00   43. 1003.    2 NAD-SFC NoSubs
11   5 12 132  18   25.2  0.294  0.950  0.010 1216.  385.    -90.1 0.2940  0.52  0.32  2.60   7.0  15.0 298.6  2.0    0  0.00   52. 1003.    2 NAD-SFC NoSubs
11   5 12 132  19   -3.2 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  0.61  0.00   0.0  15.0 297.8  2.0    0  0.00   54. 1003.    2 NAD-SFC NoSubs
11   5 12 132  20  -31.7  0.303 -9.000 -9.000 -999.  401.    78.8 0.2930  0.52  1.00  3.10 352.0  15.0 296.5  2.0    0  0.00   57. 1004.    2 NAD-SFC NoSubs
11   5 12 132  21  -35.5  0.347 -9.000 -9.000 -999.  490.   105.4 0.2720  0.52  1.00  3.60 329.0  15.0 295.2  2.0    0  0.00   61. 1004.    3 NAD-SFC NoSubs
11   5 12 132  22  -40.9  0.397 -9.000 -9.000 -999.  601.   137.3 0.2720  0.52  1.00  4.10 302.0  15.0 293.4  2.0    0  0.00   67. 1005.    3 NAD-SFC NoSubs
11   5 12 132  23  -33.7  0.325 -9.000 -9.000 -999.  449.    91.7 0.2160  0.52  1.00  3.60 294.0  15.0 291.9  2.0    0  0.00   71. 1005.    3 NAD-SFC NoSubs
11   5 12 132  24  -33.8  0.325 -9.000 -9.000 -999.  445.    91.4 0.2160  0.52  1.00  3.60 297.0  15.0 291.1  2.0    0  0.00   73. 1005.    3 NAD-SFC NoSubs
11   5 13 133   1  -30.8  0.297 -9.000 -9.000 -999.  388.    75.8 0.2720  0.52  1.00  3.10 328.0  15.0 290.5  2.0    0  0.00   76. 1005.    3 NAD-SFC NoSubs
11   5 13 133   2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 289.8  2.0    0  0.00   79. 1005.    3 NAD-SFC NoSubs
11   5 13 133   3  -25.7  0.252 -9.000 -9.000 -999.  303.    55.8 0.2940  0.52  1.00  2.60  10.0  15.0 289.0  2.0    0  0.00   83. 1005.    3 NAD-SFC NoSubs
11   5 13 133   4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 288.2  2.0    0  0.00   84. 1004.    2 NAD-SFC NoSubs
11   5 13 133   5  -16.7  0.200 -9.000 -9.000 -999.  214.    42.7 0.2930  0.52  1.00  2.10 358.0  15.0 287.6  2.0    0  0.00   84. 1004.    2 NAD-SFC NoSubs
11   5 13 133   6   -6.6  0.142 -9.000 -9.000 -999.  129.    38.7 0.2930  0.52  0.51  1.50 347.0  15.0 287.1  2.0    0  0.00   83. 1004.    2 NAD-SFC NoSubs
11   5 13 133   7   31.9  0.252  0.522  0.008  159.  304.    -45.1 0.2930  0.52  0.29  2.10 354.0  15.0 287.4  2.0    0  0.00   74. 1004.    2 NAD-SFC NoSubs
11   5 13 133   8   78.1  0.216  0.831  0.009  263.  242.    -11.6 0.2930  0.52  0.22  1.50 349.0  15.0 288.2  2.0    0  0.00   68. 1004.    2 NAD-SFC NoSubs
11   5 13 133   9  118.4  0.175  1.061  0.007  361.  176.     -4.1 0.2930  0.52  0.20  1.00 344.0  15.0 289.6  2.0    0  0.00   63. 1003.    2 NAD-SFC NoSubs
11   5 13 133  10  150.0  0.119  1.312  0.006  539.   99.     -1.0 0.2930  0.52  0.19  0.50 348.0  15.0 291.1  2.0    0  0.00   58. 1003.    2 NAD-SFC NoSubs
11   5 13 133  11  171.7  0.183  1.521  0.008  733.  189.     -3.2 0.2930  0.52  0.19  1.00 348.0  15.0 293.0  2.0    0  0.00   53. 1002.    2 NAD-SFC NoSubs
11   5 13 133  12  182.0  0.239  1.673  0.010  919.  280.     -6.7 0.2930  0.52  0.19  1.50 336.0  15.0 294.8  2.0    0  0.00   49. 1001.    2 NAD-SFC NoSubs
11   5 13 133  13  181.4 -9.000 -9.000 -9.000 1023. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 296.2  2.0    0  0.00   46. 1000.    2 NAD-SFC NoSubs
11   5 13 133  14  169.6  0.389  1.729  0.011 1088.  582.    -30.9 0.2940  0.52  0.19  3.10  19.0  15.0 296.9  2.0    0  0.00   45. 1000.    2 NAD-SFC NoSubs
11   5 13 133  15  146.3  0.384  1.673  0.011 1142.  571.    -34.4 0.2940  0.52  0.19  3.10  25.0  15.0 297.1  2.0    0  0.00   45.  999.    2 NAD-SFC NoSubs
11   5 13 133  16  113.2  0.362  1.553  0.012 1181.  523.    -37.3 0.2470  0.52  0.20  3.10  32.0  15.0 297.2  2.0    0  0.00   46.  999.    2 NAD-SFC NoSubs
11   5 13 133  17   72.4  0.261  1.348  0.012 1205.  326.    -21.9 0.2470  0.52  0.23  2.10  32.0  15.0 296.9  2.0    0  0.00   49.  999.    3 NAD-SFC NoSubs
11   5 13 133  18   26.2  0.249  0.962  0.012 1213.  298.    -52.4 0.2930  0.52  0.32  2.10 352.0  15.0 296.6  2.0    0  0.00   54. 1000.    3 NAD-SFC NoSubs
11   5 13 133  19  -29.7  0.356 -9.000 -9.000 -999.  510.   135.6 0.2930  0.52  0.60  3.60 348.0  15.0 295.5  2.0    0  0.00   58. 1000.    3 NAD-SFC NoSubs
11   5 13 133  20  -36.2  0.355 -9.000 -9.000 -999.  507.   109.7 0.2930  0.52  1.00  3.60 341.0  15.0 294.2  2.0    0  0.00   61. 1000.    3 NAD-SFC NoSubs
11   5 13 133  21  -38.2  0.373 -9.000 -9.000 -999.  546.   120.8 0.2160  0.52  1.00  4.10 289.0  15.0 293.2  2.0    0  0.00   64. 1001.    3 NAD-SFC NoSubs
11   5 13 133  22  -38.6  0.373 -9.000 -9.000 -999.  546.   119.8 0.2160  0.52  1.00  4.10 282.0  15.0 290.9  2.0    0  0.00   70. 1002.    3 NAD-SFC NoSubs
11   5 13 133  23  -28.9  0.278 -9.000 -9.000 -999.  357.    66.4 0.2160  0.52  1.00  3.10 297.0  15.0 289.4  2.0    0  0.00   72. 1002.    3 NAD-SFC NoSubs
11   5 13 133  24  -31.0  0.297 -9.000 -9.000 -999.  387.    75.3 0.2720  0.52  1.00  3.10 327.0  15.0 288.5  2.0    0  0.00   74. 1003.    3 NAD-SFC NoSubs
11   5 14 134   1  -24.7  0.246 -9.000 -9.000 -999.  294.    53.9 0.2720  0.52  1.00  2.60 328.0  15.0 287.8  2.0    0  0.00   76. 1003.    3 NAD-SFC NoSubs
11   5 14 134   2  -15.9  0.195 -9.000 -9.000 -999.  208.    42.0 0.2720  0.52  1.00  2.10 325.0  15.0 287.1  2.0    0  0.00   76. 1004.    3 NAD-SFC NoSubs
11   5 14 134   3   -8.0  0.137 -9.000 -9.000 -999.  122.    28.8 0.2720  0.52  1.00  1.50 324.0  15.0 286.6  2.0    0  0.00   75. 1004.    3 NAD-SFC NoSubs
11   5 14 134   4   -4.0  0.102 -9.000 -9.000 -999.   78.    23.6 0.2930  0.52  1.00  1.00 338.0  15.0 286.1  2.0    0  0.00   75. 1004.    3 NAD-SFC NoSubs
11   5 14 134   5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 285.8  2.0    0  0.00   74. 1004.    4 NAD-SFC NoSubs
11   5 14 134   6   -0.8  0.062 -9.000 -9.000 -999.   37.    25.7 0.2470  0.52  0.51  0.50  30.0  15.0 285.4  2.0    0  0.00   74. 1004.    4 NAD-SFC NoSubs
11   5 14 134   7   33.8  0.150  0.727  0.008  407.  140.    -9.0 0.2930  0.52  0.29  1.00 352.0  15.0 285.8  2.0    0  0.00   65. 1005.    4 NAD-SFC NoSubs
11   5 14 134   8   78.5 -9.000 -9.000 -9.000  502. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 286.8  2.0    0  0.00   59. 1004.    4 NAD-SFC NoSubs
11   5 14 134   9  118.7 -9.000 -9.000 -9.000  620. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 288.2  2.0    0  0.00   54. 1004.    3 NAD-SFC NoSubs
11   5 14 134  10  150.0 -9.000 -9.000 -9.000  742. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 289.8  2.0    0  0.00   49. 1004.    2 NAD-SFC NoSubs
11   5 14 134  11  171.4 -9.000 -9.000 -9.000  863. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 291.0  2.0    0  0.00   43. 1003.    2 NAD-SFC NoSubs
11   5 14 134  12  181.4  0.120  1.703  0.009  974.  100.     -1.0 0.2720  0.52  0.19  0.50 311.0  15.0 292.2  2.0    0  0.00   37. 1002.    2 NAD-SFC NoSubs
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11	5	14	134	13	180.7	0.234	1.752	0.009	1064.	272.	-6.4	0.2720	0.52	0.19	1.50	322.0	15.0	293.2	2.0	0	0.00	31.	1001.	2	NAD-SFC	NoSubs
11	5	14	134	14	168.9	0.290	1.754	0.009	1142.	375.	-12.9	0.2720	0.52	0.19	2.10	320.0	15.0	294.1	2.0	0	0.00	27.	1001.	2	NAD-SFC	NoSubs
11	5	14	134	15	145.7	0.377	1.700	0.009	1206.	556.	-32.8	0.2720	0.52	0.19	3.10	311.0	15.0	294.5	2.0	0	0.00	26.	1000.	2	NAD-SFC	NoSubs
11	5	14	134	16	112.6	0.505	1.580	0.009	1252.	860.	-101.8	0.2720	0.52	0.20	4.60	301.0	15.0	294.6	2.0	0	0.00	28.	1000.	2	NAD-SFC	NoSubs
11	5	14	134	17	71.8	0.565	1.370	0.009	1278.	1018.	-224.0	0.2160	0.52	0.23	5.70	294.0	15.0	293.8	2.0	0	0.00	35.	1000.	3	NAD-SFC	NoSubs
11	5	14	134	18	25.0	0.495	0.966	0.009	1284.	841.	-432.0	0.2160	0.52	0.32	5.10	283.0	15.0	291.6	2.0	0	0.00	51.	1000.	3	NAD-SFC	NoSubs
11	5	14	134	19	-38.0	0.421	-9.000	-9.000	-999.	661.	175.6	0.2160	0.52	0.60	4.60	278.0	15.0	289.0	2.0	0	0.00	61.	1001.	2	NAD-SFC	NoSubs
11	5	14	134	20	-45.1	0.420	-9.000	-9.000	-999.	653.	146.3	0.2160	0.52	1.00	4.60	275.0	15.0	287.4	2.0	0	0.00	65.	1001.	2	NAD-SFC	NoSubs
11	5	14	134	21	-40.2	0.372	-9.000	-9.000	-999.	547.	114.6	0.2160	0.52	1.00	4.10	270.0	15.0	286.1	2.0	0	0.00	71.	1002.	2	NAD-SFC	NoSubs
11	5	14	134	22	-22.6	0.230	-9.000	-9.000	-999.	279.	48.4	0.2160	0.52	1.00	2.60	275.0	15.0	285.5	2.0	0	0.00	73.	1002.	2	NAD-SFC	NoSubs
11	5	14	134	23	-1.7	0.084	-9.000	-9.000	-999.	84.	32.0	0.2930	0.52	1.00	0.50	333.0	15.0	285.1	2.0	0	0.00	73.	1002.	3	NAD-SFC	NoSubs
11	5	14	134	24	-13.9	0.182	-9.000	-9.000	-999.	186.	38.6	0.2090	0.52	1.00	2.10	64.0	15.0	284.9	2.0	0	0.00	75.	1002.	4	NAD-SFC	NoSubs
11	5	15	135	1	-13.7	0.183	-9.000	-9.000	-999.	188.	40.0	0.2130	0.52	1.00	2.10	90.0	15.0	284.9	2.0	0	0.00	77.	1002.	5	NAD-SFC	NoSubs
11	5	15	135	2	-12.2	0.185	-9.000	-9.000	-999.	191.	46.4	0.2130	0.52	1.00	2.10	101.0	15.0	284.8	2.0	0	0.00	80.	1002.	8	NAD-SFC	NoSubs
11	5	15	135	3	-13.0	0.234	-9.000	-9.000	-999.	272.	88.3	0.2130	0.52	1.00	2.60	115.0	15.0	284.8	2.0	0	0.00	82.	1003.	10	NAD-SFC	NoSubs
11	5	15	135	4	-12.7	0.229	-9.000	-9.000	-999.	263.	84.8	0.1970	0.52	1.00	2.60	131.0	15.0	284.6	2.0	0	0.00	83.	1003.	10	NAD-SFC	NoSubs
11	5	15	135	5	-16.8	0.223	-9.000	-9.000	-999.	252.	58.7	0.1810	0.52	1.00	2.60	150.0	15.0	284.4	2.0	0	0.00	85.	1003.	8	NAD-SFC	NoSubs
11	5	15	135	6	-10.9	0.271	-9.000	-9.000	-999.	339.	163.9	0.1810	0.52	0.50	3.10	162.0	15.0	284.2	2.0	0	0.00	84.	1004.	6	NAD-SFC	NoSubs
11	5	15	135	7	33.8	0.357	0.737	0.005	424.	511.	-120.1	0.1900	0.52	0.29	3.60	191.0	15.0	285.2	2.0	0	0.00	72.	1004.	5	NAD-SFC	NoSubs
11	5	15	135	8	72.4	0.284	1.060	0.005	589.	366.	-28.4	0.1750	0.52	0.22	2.60	245.0	15.0	286.9	2.0	0	0.00	60.	1004.	6	NAD-SFC	NoSubs
11	5	15	135	9	114.3	0.337	1.383	0.005	830.	470.	-30.1	0.1750	0.52	0.20	3.10	261.0	15.0	288.4	2.0	0	0.00	50.	1005.	5	NAD-SFC	NoSubs
11	5	15	135	10	148.3	0.359	1.631	0.005	1050.	517.	-28.1	0.2160	0.52	0.19	3.10	274.0	15.0	289.2	2.0	0	0.00	45.	1005.	4	NAD-SFC	NoSubs
11	5	15	135	11	171.3	0.390	1.799	0.005	1218.	585.	-31.0	0.1750	0.52	0.19	3.60	266.0	15.0	290.2	2.0	0	0.00	41.	1004.	3	NAD-SFC	NoSubs
11	5	15	135	12	181.0	0.433	1.905	0.005	1371.	683.	-40.1	0.1750	0.52	0.19	4.10	263.0	15.0	290.8	2.0	0	0.00	38.	1004.	3	NAD-SFC	NoSubs
11	5	15	135	13	180.1	0.433	1.960	0.005	1500.	683.	-40.2	0.1750	0.52	0.19	4.10	264.0	15.0	291.1	2.0	0	0.00	37.	1004.	3	NAD-SFC	NoSubs
11	5	15	135	14	168.2	0.471	1.962	0.005	1611.	775.	-55.5	0.1750	0.52	0.19	4.60	262.0	15.0	291.5	2.0	0	0.00	35.	1004.	3	NAD-SFC	NoSubs
11	5	15	135	15	145.2	0.507	1.903	0.005	1701.	867.	-80.5	0.1750	0.52	0.19	5.10	262.0	15.0	291.6	2.0	0	0.00	34.	1003.	3	NAD-SFC	NoSubs
11	5	15	135	16	112.2	0.394	1.767	0.005	1764.	604.	-48.8	0.2160	0.52	0.20	3.60	283.0	15.0	290.8	2.0	0	0.00	35.	1004.	3	NAD-SFC	NoSubs
11	5	15	135	17	71.3	0.468	1.532	0.005	1809.	769.	-129.0	0.2160	0.52	0.23	4.60	288.0	15.0	290.8	2.0	0	0.00	35.	1004.	3	NAD-SFC	NoSubs
11	5	15	135	18	24.9	0.318	1.082	0.005	1821.	447.	-115.1	0.2160	0.52	0.31	3.10	289.0	15.0	289.6	2.0	0	0.00	48.	1005.	3	NAD-SFC	NoSubs
11	5	15	135	19	-36.3	0.422	-9.000	-9.000	-999.	657.	185.1	0.2160	0.52	0.59	4.60	295.0	15.0	287.8	2.0	0	0.00	56.	1006.	3	NAD-SFC	NoSubs
11	5	15	135	20	-44.5	0.420	-9.000	-9.000	-999.	653.	149.3	0.2160	0.52	1.00	4.60	277.0	15.0	285.6	2.0	0	0.00	64.	1006.	3	NAD-SFC	NoSubs
11	5	15	135	21	-44.7	0.420	-9.000	-9.000	-999.	653.	148.5	0.2160	0.52	1.00	4.60	283.0	15.0	284.1	2.0	0	0.00	70.	1007.	3	NAD-SFC	NoSubs
11	5	15	135	22	-37.7	0.353	-9.000	-9.000	-999.	506.	104.5	0.1750	0.52	1.00	4.10	269.0	15.0	283.1	2.0	0	0.00	75.	1007.	3	NAD-SFC	NoSubs
11	5	15	135	23	-29.8	0.278	-9.000	-9.000	-999.	355.	64.7	0.2160	0.52	1.00	3.10	276.0	15.0	282.2	2.0	0	0.00	79.	1008.	3	NAD-SFC	NoSubs
11	5	15	135	24	-22.2	0.231	-9.000	-9.000	-999.	267.	49.8	0.2160	0.52	1.00	2.60	292.0	15.0	282.1	2.0	0	0.00	81.	1008.	4	NAD-SFC	NoSubs
11	5	16	136	1	-22.2	0.231	-9.000	-9.000	-999.	266.	49.8	0.2160	0.52	1.00	2.60	299.0	15.0	282.1	2.0	0	0.00	81.	1008.	4	NAD-SFC	NoSubs
11	5	16	136	2	-13.9	0.184	-9.000	-9.000	-999.	189.	40.0	0.2160	0.52	1.00	2.10	294.0	15.0	281.9	2.0	0	0.00	82.	1008.	5	NAD-SFC	NoSubs
11	5	16	136	3	-12.3	0.174	-9.000	-9.000	-999.	174.	38.4	0.1750	0.52	1.00	2.10	266.0	15.0	281.4	2.0	0	0.00	83.	1008.	6	NAD-SFC	NoSubs
11	5	16	136	4	-12.4	0.174	-9.000	-9.000	-999.	174.	38.4	0.1750	0.52	1.00	2.10	257.0	15.0	280.9	2.0	0	0.00	85.	1008.	6	NAD-SFC	NoSubs
11	5	16	136	5	-5.9	0.122	-9.000	-9.000	-999.	103.	27.5	0.1750	0.52	1.00	1.50	261.0	15.0	280.8	2.0	0	0.00	85.	1008.	7	NAD-SFC	NoSubs
11	5	16	136	6	-4.2	0.125	-9.000	-9.000	-999.	106.	41.6	0.1750	0.52	0.50	1.50	258.0	15.0	280.8	2.0	0	0.00	83.	1009.	6	NAD-SFC	NoSubs
11	5	16	136	7	33.9	0.141	0.587	0.005	214.	127.	-7.4	0.2160	0.52	0.29	1.00	276.0	15.0	281.2	2.0	0	0.00	75.	1009.	4	NAD-SFC	NoSubs
11	5	16	136	8	79.0	0.100	0.976	0.005	424.	76.	-1.1	0.1950	0.52	0.22	0.50	237.0	15.0	282.4	2.0	0	0.00	68.	1009.	3	NAD-SFC	NoSubs
11	5	16	136	9	118.5	0.105	1.281	0.005	639.	81.	-1.0	0.1900	0.52	0.20	0.50	200.0	15.0	283.5	2.0	0	0.00	62.	1008.	3	NAD-SFC	NoSubs
11	5	16	136	10	149.5	0.108	1.549	0.005	895.	85.	-1.0	0.1900	0.52	0.19	0.50	191.0	15.0	285.0	2.0	0	0.00	56.	1008.	2	NAD-SFC	NoSubs
11	5	16	136	11	170.7	-9.000	-9.000	-9.000	1204.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	286.2	2.0	0	0.00	48.	1008.	2	NAD-SFC	NoSubs
11	5	16	136	12	180.5	-9.000	-9.000	-9.000	1391.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	287.6	2.0	0	0.00	40.	1006.	3	NAD-SFC	NoSubs
11	5	16	136	13	179.7	-9.000	-9.000	-9.000	1480.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	288.8	2.0	0	0.00	36.	1005.	3	NAD-SFC	NoSubs
11	5	16	136	14	168.1	-9.000	-9.000	-9.000	1559.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	289.9	2.0	0	0.00	33.	1004.	3	NAD-SFC	NoSubs
11	5	16	136	15	145.3	-9.000	-9.000	-9.000	1625.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	290.8	2.0	0	0.00	32.	1003.	3	NAD-SFC	NoSubs
11	5	16	136	16	111.3	0.459	1.732	0.009	1671.	746.	-77.6	0.1750	0.52	0.20	4.60	248.0	15.0	290.2	2.0	0	0.00	42.	1003.	4	NAD-SFC	NoSubs
11	5	16	136	17	69.0	0.406	1.484	0.009	1695.	623.	-86.6	0.1750	0.52	0.23	4.10	262.0	15.0	288.1	2.0	0	0.00	64.	1003.	5	NAD-SFC	NoSubs
11	5	16	136	18	25.5	0.092	1.068	0.009	1704.	259.	-2.7	0.2720	0.52	0.31	0.50	317.0	15.0	287.2	2.0	0	0.25	75.	1003.	5	NAD-SFC	NoSubs
11	5	16	136	19	-3.1	0.093	-9.000	-9.000	-999.	82.	23.4	0.2470	0.52	0.58	1.00	47.0	15.0	286.9	2.0	0	0.00	80.	1003.	4	NAD-SFC	NoSubs
11	5	16	136	20	-13.5	0.182	-9.000	-9.000	-999.	186.	39.9	0.2090	0.52	1.00	2.10	79.0	15.0	286.5	2.0	0	0.25	83.	1003.	5	NAD-SFC	NoSubs
11	5	16	136	21	-20.5	0.230	-9.000	-9.000	-999.	264.	53.0	0.2090	0.52	1.00	2.60	86.0	15.0	286.1	2.0	0	0.51	88.	1003.	6	NAD-SFC	NoSubs
11	5	16	136	22	-25.2	0.278	-9.000	-9.000	-999.	352.	76.3	0.2130	0.52	1.00	3.10	95.0	15.0	285.8	2.0	0	0.76	91.	1003.	6	NAD-SFC	NoSubs
11	5	16	136	23	-21.3	0.230	-9.000	-9.000	-999.	266.	51.4	0.2130	0.52	1.00	2.60	105.0	15.0	285.5	2.0	0	0.51	91.	1002.	5	NAD-SFC	NoSubs
11	5	16	136	24	-21.3	0.230	-9.000	-9.000	-999.	265.	51.3	0.2130	0.52	1.00	2.60	111.0	15.0	285.4	2.0	0	0.25	90.	1002.	5	NAD-SFC	NoSubs
11	5	17	137	1	-21.1	0.225	-9.000	-9.000	-999.	257.	48.5	0.1970	0.52	1.00	2.60	125.0	15.0	285.4	2.0	0	0.25	88.	1002.	4	NAD-SFC	NoSubs
11	5	17	137	2	-19.9	0.226	-9.000	-9.000	-999.	258.	51.8	0.1970	0.52	1.00	2.60	129.0	15.0	285.4	2.0	0	0.25	87.	1001.	6	NAD-SFC	NoSubs
11	5	17	137	3	-20.6	0.226	-9.000	-9.000	-999.	257.	49.9	0.1970	0.52	1.00	2.60	130.0	15.0	285.4	2.0	0	0.25	86.	1001.	5	NAD-SFC	NoSubs
11	5	17	137	4	-20.6	0.226	-9.000	-9.000	-999.	257.	49.9	0.1970	0.52	1.00	2.60	131.0	15.0	285.4	2.0	0	0.51	87.	1001.	5	NAD-SFC	NoSubs
11	5	17	137	5	-19.9	0.226	-9.000	-9.000	-999.	258.	51.8	0.1970	0.52	1.00	2.60	126.0	15.0	285.4	2.0	0	0.00	88.	1001.	6	NAD-SFC	NoSubs
11	5	17	137	6	-9.0	0.231	-9.000	-9.000	-999.	266.	121.8	0.1970	0.52	0.50	2.60	125.0	15.0	285.4	2.0	0	0.00	88.	1001.	5	NAD-SFC	NoSubs
11	5	17	137	7	34.9	0.183	0.625	0.005	249.	188.	-15.6	0.1970	0.52	0.28	1.50	121.0	15.0	286.2	2.0	0	0.00	85.	1002.	5	NAD-SFC	NoSubs
11	5	17	137	8	77.9	-9.000	-9.000	-9.000	480.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	288.0	2.0	0	0.00	72.	1002.	5	NAD-SFC	NoSubs
11	5	17	137	9	28.1	-9.000	-9.000	-9.000	558.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	289.8	2.0	0	0.00	63.	1002.	10	NAD-SFC	NoSubs
11	5	17	137	10	36.1	0.097	0.866	0.005	643.	72.	-2.2	0.2720	0.52	0.19	0.50	310.0	15.0	290.4	2.0	0	0.00	58.	1002.	10	NAD-SFC	NoSubs
11	5	17	137	11	164.2	-9.000	-9.000	-9.000	968.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	291.4	2.0	0	0.00	53.	1001.	5	NAD-SFC	NoSubs
11	5	17	137	12	179.5	0.122	1.760	0.005	1086.	103.	-1.0	0.2930	0.52	0.19	0.50	342.0	15.0	292.4	2.0	0	0.00	47.	1000.	4	NAD-SFC	NoSubs
11	5	17	137	13	181.4	0.223	1.822	0.005	1192.	253.	-5.5	0.2160	0.52	0.19	1.50	294.0	15.0	293.5	2.0	0	0.00	42.	1000.	3	NAD-SFC	NoSubs
11	5	17	137	14	169.6	0.471	1.827	0.005	1283.	776.	-54.9	0.1750	0.52	0.19	4.60	269.0	15.0	294.0	2.0	0	0.00	39.	999.	3	NAD-SFC	NoSubs
11	5	17	137	15	146.6	0.714	1.784	0.005	1383.	1447.	-221.1	0.2160	0.52	0.19	7.20	273.0	15.0	293.9	2.0	0	0.00	41.	999.	3	NAD-SFC	NoSubs
11	5	17	137	16	112.6	0.719	1.683	0.005	1512.	1461.	-293.5	0.1750	0.52	0.20	7.70	265.0	15.0	293.0	2.0	0	0.00	45.	999.	4	NAD-SFC	NoSubs
11	5	17	137	17	72.3	0.667	1.476	0.005	1587.	1314.	-366.1	0.1750	0.52	0.23	7.20	258.0	15.0	291.9	2.0	0	0.00	52.	999.	4	NAD-SFC	NoSubs

11	5	17	137	18	26.2	0.473	1.058	0.005	1609.	821.	-359.2	0.1750	0.52	0.31	5.10	264.0	15.0	290.5	2.0	0	0.00	63.	999.	3	NAD-SFC	NoSubs
11	5	17	137	19	-34.6	0.422	-9.000	-9.000	-999.	662.	193.6	0.2160	0.52	0.58	4.60	270.0	15.0	288.8	2.0	0	0.00	71.	1000.	3	NAD-SFC	NoSubs
11	5	17	137	20	-35.6	0.353	-9.000	-9.000	-999.	507.	110.3	0.1750	0.52	1.00	4.10	267.0	15.0	287.2	2.0	0	0.00	76.	1000.	4	NAD-SFC	NoSubs
11	5	17	137	21	-25.4	0.264	-9.000	-9.000	-999.	330.	64.5	0.1750	0.52	1.00	3.10	265.0	15.0	286.2	2.0	0	0.00	80.	1000.	5	NAD-SFC	NoSubs
11	5	17	137	22	-14.7	0.267	-9.000	-9.000	-999.	332.	115.5	0.1750	0.52	1.00	3.10	244.0	15.0	285.4	2.0	0	0.00	83.	1000.	10	NAD-SFC	NoSubs
11	5	17	137	23	-22.7	0.272	-9.000	-9.000	-999.	341.	79.3	0.1950	0.52	1.00	3.10	237.0	15.0	285.0	2.0	0	0.00	85.	1000.	7	NAD-SFC	NoSubs
11	5	17	137	24	-23.9	0.264	-9.000	-9.000	-999.	326.	68.8	0.1750	0.52	1.00	3.10	251.0	15.0	284.9	2.0	0	0.00	86.	1000.	6	NAD-SFC	NoSubs
11	5	18	138	1	-25.5	0.264	-9.000	-9.000	-999.	325.	64.2	0.1750	0.52	1.00	3.10	266.0	15.0	284.6	2.0	0	0.00	88.	1000.	5	NAD-SFC	NoSubs
11	5	18	138	2	-21.4	0.231	-9.000	-9.000	-999.	267.	51.5	0.2160	0.52	1.00	2.60	283.0	15.0	284.0	2.0	0	0.00	90.	999.	5	NAD-SFC	NoSubs
11	5	18	138	3	-20.8	0.248	-9.000	-9.000	-999.	296.	65.3	0.2720	0.52	1.00	2.60	304.0	15.0	283.5	2.0	0	0.00	90.	999.	7	NAD-SFC	NoSubs
11	5	18	138	4	-27.1	0.298	-9.000	-9.000	-999.	389.	86.6	0.2720	0.52	1.00	3.10	312.0	15.0	283.1	2.0	0	0.00	90.	999.	6	NAD-SFC	NoSubs
11	5	18	138	5	-25.5	0.279	-9.000	-9.000	-999.	354.	76.1	0.2160	0.52	1.00	3.10	297.0	15.0	282.9	2.0	0	0.00	89.	1000.	6	NAD-SFC	NoSubs
11	5	18	138	6	-13.1	0.332	-9.000	-9.000	-999.	459.	249.4	0.2160	0.52	0.49	3.60	296.0	15.0	282.8	2.0	0	0.00	86.	1000.	5	NAD-SFC	NoSubs
11	5	18	138	7	34.9	0.526	0.598	0.005	219.	916.	-372.6	0.2720	0.52	0.28	5.10	323.0	15.0	284.2	2.0	0	0.00	73.	1001.	5	NAD-SFC	NoSubs
11	5	18	138	8	77.7	0.495	1.006	0.005	468.	838.	-139.5	0.2720	0.52	0.22	4.60	318.0	15.0	285.2	2.0	0	0.00	68.	1001.	5	NAD-SFC	NoSubs
11	5	18	138	9	114.6	0.467	1.325	0.005	725.	768.	-79.6	0.2930	0.52	0.20	4.10	333.0	15.0	285.8	2.0	0	0.00	66.	1001.	5	NAD-SFC	NoSubs
11	5	18	138	10	35.2	0.488	0.925	0.005	801.	817.	-293.9	0.2930	0.52	0.19	4.60	335.0	15.0	286.6	2.0	0	0.00	63.	1001.	10	NAD-SFC	NoSubs
11	5	18	138	11	40.6	0.596	1.000	0.005	880.	1102.	-465.5	0.2930	0.52	0.19	5.70	331.0	15.0	287.0	2.0	0	0.00	63.	1001.	10	NAD-SFC	NoSubs
11	5	18	138	12	43.1	0.645	1.049	0.005	957.	1242.	-556.8	0.2930	0.52	0.19	6.20	331.0	15.0	287.5	2.0	0	0.00	61.	1001.	10	NAD-SFC	NoSubs
11	5	18	138	13	144.3	0.623	1.678	0.005	1170.	1183.	-149.6	0.2930	0.52	0.19	5.70	338.0	15.0	288.5	2.0	0	0.00	56.	1000.	7	NAD-SFC	NoSubs
11	5	18	138	14	160.8	0.627	1.831	0.005	1363.	1191.	-136.5	0.2930	0.52	0.19	5.70	342.0	15.0	289.8	2.0	0	0.00	50.	1000.	5	NAD-SFC	NoSubs
11	5	18	138	15	144.1	0.670	1.819	0.005	1491.	1315.	-186.1	0.2930	0.52	0.19	6.20	355.0	15.0	290.6	2.0	0	0.00	47.	999.	4	NAD-SFC	NoSubs
11	5	18	138	16	113.4	0.664	1.713	0.005	1582.	1300.	-230.3	0.2940	0.52	0.20	6.20	5.0	15.0	290.8	2.0	0	0.00	46.	999.	3	NAD-SFC	NoSubs
11	5	18	138	17	72.8	-9.000	-9.000	-9.000	1639.	-999.	-99999.0	0.2235	0.52	0.23	0.00	0.0	15.0	291.0	2.0	0	0.00	45.	999.	3	NAD-SFC	NoSubs
11	5	18	138	18	26.8	0.295	1.076	0.005	1658.	385.	-85.4	0.2940	0.52	0.31	2.60	27.0	15.0	290.8	2.0	0	0.00	54.	999.	3	NAD-SFC	NoSubs
11	5	18	138	19	-25.9	0.324	-9.000	-9.000	-999.	443.	117.1	0.2090	0.52	0.57	3.60	81.0	15.0	289.2	2.0	0	0.00	60.	999.	3	NAD-SFC	NoSubs
11	5	18	138	20	-33.9	0.324	-9.000	-9.000	-999.	443.	89.5	0.2130	0.52	1.00	3.60	103.0	15.0	287.4	2.0	0	0.00	67.	1000.	3	NAD-SFC	NoSubs
11	5	18	138	21	-20.6	0.220	-9.000	-9.000	-999.	253.	46.1	0.1810	0.52	1.00	2.60	151.0	15.0	286.8	2.0	0	0.00	69.	1001.	3	NAD-SFC	NoSubs
11	5	18	138	22	-6.7	0.125	-9.000	-9.000	-999.	110.	25.9	0.1900	0.52	1.00	1.50	196.0	15.0	286.4	2.0	0	0.00	70.	1002.	4	NAD-SFC	NoSubs
11	5	18	138	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	285.9	2.0	0	0.00	71.	1002.	4	NAD-SFC	NoSubs
11	5	18	138	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	285.2	2.0	0	0.00	72.	1002.	4	NAD-SFC	NoSubs
11	5	19	139	1	-3.3	0.092	-9.000	-9.000	-999.	67.	21.6	0.1750	0.52	1.00	1.00	249.0	15.0	284.8	2.0	0	0.00	74.	1003.	4	NAD-SFC	NoSubs
11	5	19	139	2	-6.5	0.122	-9.000	-9.000	-999.	103.	25.2	0.1750	0.52	1.00	1.50	259.0	15.0	284.2	2.0	0	0.00	76.	1003.	4	NAD-SFC	NoSubs
11	5	19	139	3	-14.1	0.183	-9.000	-9.000	-999.	188.	39.0	0.2160	0.52	1.00	2.10	274.0	15.0	283.8	2.0	0	0.00	78.	1003.	4	NAD-SFC	NoSubs
11	5	19	139	4	-22.4	0.230	-9.000	-9.000	-999.	266.	48.9	0.2160	0.52	1.00	2.60	281.0	15.0	283.2	2.0	0	0.00	80.	1003.	3	NAD-SFC	NoSubs
11	5	19	139	5	-14.4	0.183	-9.000	-9.000	-999.	188.	38.1	0.2160	0.52	1.00	2.10	279.0	15.0	282.8	2.0	0	0.00	82.	1004.	3	NAD-SFC	NoSubs
11	5	19	139	6	-5.1	0.131	-9.000	-9.000	-999.	114.	39.9	0.2160	0.52	0.49	1.50	282.0	15.0	282.5	2.0	0	0.00	83.	1004.	3	NAD-SFC	NoSubs
11	5	19	139	7	35.4	0.149	0.574	0.005	191.	138.	-8.3	0.2720	0.52	0.28	1.00	323.0	15.0	284.8	2.0	0	0.00	74.	1005.	3	NAD-SFC	NoSubs
11	5	19	139	8	81.0	0.108	0.986	0.005	424.	85.	-1.4	0.2720	0.52	0.22	0.50	312.0	15.0	286.8	2.0	0	0.00	67.	1005.	3	NAD-SFC	NoSubs
11	5	19	139	9	120.5	0.108	1.262	0.005	599.	85.	-1.0	0.2160	0.52	0.20	0.50	296.0	15.0	288.5	2.0	0	0.00	59.	1005.	3	NAD-SFC	NoSubs
11	5	19	139	10	151.7	0.117	1.494	0.005	788.	97.	-1.0	0.2720	0.52	0.19	0.50	302.0	15.0	290.2	2.0	0	0.00	50.	1004.	3	NAD-SFC	NoSubs
11	5	19	139	11	172.8	0.120	1.672	0.005	971.	99.	-1.0	0.2720	0.52	0.19	0.50	315.0	15.0	291.8	2.0	0	0.00	44.	1004.	3	NAD-SFC	NoSubs
11	5	19	139	12	182.8	0.182	1.797	0.005	1138.	186.	-2.9	0.2720	0.52	0.19	1.00	317.0	15.0	293.2	2.0	0	0.00	39.	1003.	3	NAD-SFC	NoSubs
11	5	19	139	13	182.2	0.235	1.870	0.006	1284.	273.	-6.3	0.2720	0.52	0.19	1.50	328.0	15.0	294.4	2.0	0	0.00	36.	1002.	3	NAD-SFC	NoSubs
11	5	19	139	14	170.6	0.295	1.879	0.006	1392.	385.	-13.5	0.2930	0.52	0.19	2.10	341.0	15.0	295.2	2.0	0	0.00	34.	1002.	3	NAD-SFC	NoSubs
11	5	19	139	15	148.0	0.338	1.826	0.006	1471.	471.	-23.3	0.2930	0.52	0.19	2.60	348.0	15.0	295.9	2.0	0	0.00	33.	1001.	3	NAD-SFC	NoSubs
11	5	19	139	16	115.6	-9.000	-9.000	-9.000	1529.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.2	2.0	0	0.00	33.	1001.	3	NAD-SFC	NoSubs
11	5	19	139	17	74.9	0.410	1.486	0.005	1565.	630.	-82.0	0.2940	0.52	0.23	3.60	8.0	15.0	296.2	2.0	0	0.00	35.	1001.	3	NAD-SFC	NoSubs
11	5	19	139	18	27.7	0.296	1.070	0.005	1577.	394.	-83.2	0.2940	0.52	0.31	2.60	12.0	15.0	295.8	2.0	0	0.00	46.	1001.	2	NAD-SFC	NoSubs
11	5	19	139	19	-14.4	0.202	-9.000	-9.000	-999.	223.	51.4	0.2940	0.52	0.57	2.10	5.0	15.0	295.0	2.0	0	0.00	47.	1001.	2	NAD-SFC	NoSubs
11	5	19	139	20	-1.6	0.083	-9.000	-9.000	-999.	69.	31.8	0.2720	0.52	1.00	0.50	300.0	15.0	293.8	2.0	0	0.00	50.	1002.	2	NAD-SFC	NoSubs
11	5	19	139	21	-21.4	0.224	-9.000	-9.000	-999.	255.	47.2	0.1950	0.52	1.00	2.60	222.0	15.0	292.1	2.0	0	0.00	56.	1002.	2	NAD-SFC	NoSubs
11	5	19	139	22	-20.3	0.218	-9.000	-9.000	-999.	245.	45.9	0.1750	0.52	1.00	2.60	245.0	15.0	290.2	2.0	0	0.00	61.	1003.	3	NAD-SFC	NoSubs
11	5	19	139	23	-7.1	0.129	-9.000	-9.000	-999.	114.	26.7	0.2160	0.52	1.00	1.50	288.0	15.0	289.1	2.0	0	0.00	63.	1003.	3	NAD-SFC	NoSubs
11	5	19	139	24	-15.9	0.195	-9.000	-9.000	-999.	207.	42.1	0.2720	0.52	1.00	2.10	325.0	15.0	288.4	2.0	0	0.00	65.	1004.	3	NAD-SFC	NoSubs
11	5	20	140	1	-25.7	0.252	-9.000	-9.000	-999.	303.	55.5	0.2930	0.52	1.00	2.60	334.0	15.0	287.8	2.0	0	0.00	67.	1004.	3	NAD-SFC	NoSubs
11	5	20	140	2	-25.7	0.252	-9.000	-9.000	-999.	303.	55.5	0.2930	0.52	1.00	2.60	335.0	15.0	287.2	2.0	0	0.00	68.	1004.	3	NAD-SFC	NoSubs
11	5	20	140	3	-8.2	0.140	-9.000	-9.000	-999.	132.	29.7	0.2930	0.52	1.00	1.50	339.0	15.0	286.8	2.0	0	0.00	70.	1004.	3	NAD-SFC	NoSubs
11	5	20	140	4	-4.0	0.102	-9.000	-9.000	-999.	78.	23.7	0.2940	0.52	1.00	1.00	17.0	15.0	286.1	2.0	0	0.00	73.	1005.	3	NAD-SFC	NoSubs
11	5	20	140	5	-1.6	0.082	-9.000	-9.000	-999.	56.	31.6	0.2470	0.52	1.00	0.50	34.0	15.0	285.6	2.0	0	0.00	75.	1005.	3	NAD-SFC	NoSubs
11	5	20	140	6	-0.8	0.060	-9.000	-9.000	-999.	36.	25.2	0.2930	0.52	0.49	0.50	352.0	15.0	285.4	2.0	0	0.00	77.	1006.	3	NAD-SFC	NoSubs
11	5	20	140	7	36.3	0.200	0.605	0.008	219.	214.	-19.7	0.2930	0.52	0.28	1.50	347.0	15.0	286.9	2.0	0	0.00	71.	1006.	3	NAD-SFC	NoSubs
11	5	20	140	8	81.8	-9.000	-9.000	-9.000	345.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	288.6	2.0	0	0.00	64.	1006.	3	NAD-SFC	NoSubs
11	5	20	140	9	121.0	-9.000	-9.000	-9.000	509.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	290.2	2.0	0	0.00	58.	1006.	2	NAD-SFC	NoSubs
11	5	20	140	10	152.4	-9.000	-9.000	-9.000	676.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	292.1	2.0	0	0.00	52.	1006.	2	NAD-SFC	NoSubs
11	5	20	140	11	173.9	-9.000	-9.000	-9.000	818.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	293.9	2.0	0	0.00	46.	1006.	2	NAD-SFC	NoSubs
11	5	20	140	12	184.0	-9.000	-9.000	-9.000	946.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.2	2.0	0	0.00	42.	1005.	2	NAD-SFC	NoSubs
11	5	20	140	13	183.3	-9.000	-9.000	-9.000	1065.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.2	2.0	0	0.00	40.	1004.	2	NAD-SFC	NoSubs
11	5	20	140	14	171.8	0.120	1.775	0.006	1167.	99.	-1.0	0.2720	0.52	0.19	0.50	317.0	15.0	297.2	2.0	0	0.00	37.	1003.	2	NAD-SFC	NoSubs
11	5	20	140	15	149.0	0.233	1.732	0.006	1249.	269.	-7.5	0.2930	0.52	0.19	1.50	350.0	15.0	297.9	2.0	0	0.00	35.	1003.	2	NAD-SFC	NoSubs
11	5	20	140	16	116.8	0.284	1.623	0.006	1311.	364.	-17.6	0.2940	0.52	0.20	2.10	9.0	15.0	298.4	2.0	0	0.00	42.	1002.	3	NAD-SFC	NoSubs
11	5	20	140	17	76.3	0.365	1.422	0.006	1349.	528.	-56.8	0.2940	0.52	0.23	3.10	10.0	15.0	298.4	2.0	0	0.00	42.	1002.	3	NAD-SFC	NoSubs
11	5	20	140	18	30.2	0.344	1.048	0.006	1363.	484.	-120.1	0.2940	0.52	0.31	3.10	15.0	15.0	297.8	2.0	0	0.00	52.	1003.	3	NAD-SFC	NoSubs
11	5	20	140	19	-25.0	0.357	-9.000	-9.000	-999.	513.	163.4	0.2930	0.52	0.56	3.60	354.0	15.0	296.9	2.0	0	0.00	53.	1003.	3	NAD-SFC	NoSubs
11	5	20	140	20	-35.4	0.347	-9.000	-9.000	-999.	491.	105.5	0.2720	0.52	1.00	3.60	316.0	15.0	295.4	2.0	0	0.00	58.	1003.	3	NAD-SFC	NoSubs
11	5	20	140	21	-28.6	0.278	-9.000	-9.000	-999.	355.	67.4	0.2160	0.52	1.00	3.10	299.0	15.0	293.8	2.0	0	0.00	65.	1004.	3	NAD-SFC	NoSubs
11	5	20	140	22	-33.6	0.325	-9.000	-9.000	-999.	445.	91.9	0.2160	0.52	1.00	3.60	289.0	15.0	292.6	2.0	0	0.00	68.	1004.	3	NAD-SFC	NoSubs

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11  5 20 140 23  -33.7  0.325 -9.000 -9.000 -999.  445.     91.5  0.2160  0.52  1.00  3.60  288.0  15.0  291.4  2.0   0  0.00  71.  1005.   3 NAD-SFC NoSubs
11  5 20 140 24  -24.7  0.246 -9.000 -9.000 -999.  296.     54.2  0.2720  0.52  1.00  2.60  316.0  15.0  290.8  2.0   0  0.00  72.  1005.   3 NAD-SFC NoSubs
11  5 21 141  1  -25.6  0.252 -9.000 -9.000 -999.  303.     55.8  0.2930  0.52  1.00  2.60  330.0  15.0  290.2  2.0   0  0.00  72.  1005.   3 NAD-SFC NoSubs
11  5 21 141  2  -16.4  0.200 -9.000 -9.000 -999.  215.     43.6  0.2930  0.52  1.00  2.10  342.0  15.0  290.0  2.0   0  0.00  73.  1005.   3 NAD-SFC NoSubs
11  5 21 141  3  -16.4  0.200 -9.000 -9.000 -999.  215.     43.6  0.2930  0.52  1.00  2.10  346.0  15.0  289.8  2.0   0  0.00  73.  1005.   3 NAD-SFC NoSubs
11  5 21 141  4   -4.0  0.102 -9.000 -9.000 -999.   82.     23.7  0.2940  0.52  1.00  1.00    6.0  15.0  289.2  2.0   0  0.00  73.  1005.   3 NAD-SFC NoSubs
11  5 21 141  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  288.9  2.0   0  0.00  74.  1005.   3 NAD-SFC NoSubs
11  5 21 141  6   -1.8  0.081 -9.000 -9.000 -999.   56.     26.8  0.1750  0.52  0.48  1.00  265.0  15.0  288.8  2.0   0  0.00  74.  1006.   3 NAD-SFC NoSubs
11  5 21 141  7   37.1  0.152  0.737  0.007  387.  142.     -8.5  0.2930  0.52  0.28  1.00  340.0  15.0  288.8  2.0   0  0.00  68.  1006.   3 NAD-SFC NoSubs
11  5 21 141  8   82.5 -9.000 -9.000 -9.000  492. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  290.1  2.0   0  0.00  60.  1006.   3 NAD-SFC NoSubs
11  5 21 141  9  121.9 -9.000 -9.000 -9.000  614. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  291.5  2.0   0  0.00  55.  1005.   3 NAD-SFC NoSubs
11  5 21 141 10  153.0 -9.000 -9.000 -9.000  744. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  293.1  2.0   0  0.00  51.  1005.   3 NAD-SFC NoSubs
11  5 21 141 11  174.2 -9.000 -9.000 -9.000  870. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  294.5  2.0   0  0.00  47.  1004.   3 NAD-SFC NoSubs
11  5 21 141 12  184.1 -9.000 -9.000 -9.000  984. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  295.6  2.0   0  0.00  45.  1003.   3 NAD-SFC NoSubs
11  5 21 141 13  183.7  0.185  1.760  0.008 1064.  191.     -3.1  0.2930  0.52  0.19  1.00  352.0  15.0  296.6  2.0   0  0.00  43.  1003.   2 NAD-SFC NoSubs
11  5 21 141 14  172.0  0.237  1.760  0.008 1134.  277.     -6.9  0.2930  0.52  0.19  1.50  347.0  15.0  297.2  2.0   0  0.00  42.  1002.   2 NAD-SFC NoSubs
11  5 21 141 15  149.2  0.338  1.706  0.008 1191.  472.    -23.2  0.2930  0.52  0.19  2.60  355.0  15.0  297.8  2.0   0  0.00  41.  1002.   2 NAD-SFC NoSubs
11  5 21 141 16  116.6  0.377  1.590  0.007 1234.  555.    -41.0  0.2940  0.52  0.20  3.10    3.0  15.0  297.9  2.0   0  0.00  41.  1002.   2 NAD-SFC NoSubs
11  5 21 141 17   75.6  0.456  1.387  0.007 1261.  739.   -112.1  0.2930  0.52  0.22  4.10  353.0  15.0  297.8  2.0   0  0.00  43.  1002.   2 NAD-SFC NoSubs
11  5 21 141 18   30.4  0.344  1.026  0.007 1270.  492.   -119.0  0.2930  0.52  0.31  3.10  346.0  15.0  297.0  2.0   0  0.00  53.  1002.   3 NAD-SFC NoSubs
11  5 21 141 19  -24.8  0.357 -9.000 -9.000 -999.  513.    164.8  0.2930  0.52  0.56  3.60  349.0  15.0  295.8  2.0   0  0.00  55.  1002.   3 NAD-SFC NoSubs
11  5 21 141 20  -36.3  0.355 -9.000 -9.000 -999.  507.    109.8  0.2930  0.52  1.00  3.60  337.0  15.0  294.5  2.0   0  0.00  58.  1002.   3 NAD-SFC NoSubs
11  5 21 141 21  -35.7  0.347 -9.000 -9.000 -999.  490.    104.6  0.2720  0.52  1.00  3.60  321.0  15.0  292.9  2.0   0  0.00  65.  1003.   3 NAD-SFC NoSubs
11  5 21 141 22  -33.7  0.325 -9.000 -9.000 -999.  446.     91.6  0.2160  0.52  1.00  3.60  278.0  15.0  291.5  2.0   0  0.00  72.  1003.   3 NAD-SFC NoSubs
11  5 21 141 23  -33.8  0.325 -9.000 -9.000 -999.  445.     91.1  0.2160  0.52  1.00  3.60  278.0  15.0  290.2  2.0   0  0.00  76.  1003.   3 NAD-SFC NoSubs
11  5 21 141 24  -30.9  0.297 -9.000 -9.000 -999.  388.     75.5  0.2720  0.52  1.00  3.10  303.0  15.0  289.2  2.0   0  0.00  79.  1003.   3 NAD-SFC NoSubs
11  5 22 142  1  -24.7  0.246 -9.000 -9.000 -999.  294.     54.0  0.2720  0.52  1.00  2.60  313.0  15.0  288.5  2.0   0  0.00  80.  1003.   3 NAD-SFC NoSubs
11  5 22 142  2  -16.2  0.200 -9.000 -9.000 -999.  216.     44.4  0.2930  0.52  1.00  2.10  332.0  15.0  288.0  2.0   0  0.00  80.  1003.   4 NAD-SFC NoSubs
11  5 22 142  3   -3.9  0.101 -9.000 -9.000 -999.   82.     23.7  0.2930  0.52  1.00  1.00  332.0  15.0  287.6  2.0   0  0.00  81.  1003.   4 NAD-SFC NoSubs
11  5 22 142  4   -1.5  0.082 -9.000 -9.000 -999.   56.     31.4  0.2720  0.52  1.00  0.50  310.0  15.0  287.2  2.0   0  0.00  82.  1003.   4 NAD-SFC NoSubs
11  5 22 142  5   -1.4  0.079 -9.000 -9.000 -999.   54.     30.9  0.2160  0.52  1.00  0.50  278.0  15.0  286.8  2.0   0  0.00  83.  1003.   4 NAD-SFC NoSubs
11  5 22 142  6   18.1 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.48  0.00    0.0  15.0  286.4  2.0   0  0.00  85.  1004.   4 NAD-SFC NoSubs
11  5 22 142  7   37.7 -9.000 -9.000 -9.000  284. -999. -99999.0  0.2235  0.52  0.28  0.00    0.0  15.0  287.9  2.0   0  0.00  75.  1004.   4 NAD-SFC NoSubs
11  5 22 142  8   82.1 -9.000 -9.000 -9.000  419. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  289.2  2.0   0  0.00  71.  1004.   4 NAD-SFC NoSubs
11  5 22 142  9  120.7 -9.000 -9.000 -9.000  577. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  290.8  2.0   0  0.00  65.  1004.   4 NAD-SFC NoSubs
11  5 22 142 10  151.1 -9.000 -9.000 -9.000  734. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  292.4  2.0   0  0.00  59.  1003.   4 NAD-SFC NoSubs
11  5 22 142 11  171.8 -9.000 -9.000 -9.000  885. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  293.9  2.0   0  0.00  55.  1003.   4 NAD-SFC NoSubs
11  5 22 142 12  181.6  0.120  1.736  0.007 1031.  100.     -1.0  0.2720  0.52  0.19  0.50  315.0  15.0  295.2  2.0   0  0.00  51.  1002.   4 NAD-SFC NoSubs
11  5 22 142 13  181.1  0.235  1.810  0.008 1171.  273.     -6.4  0.2720  0.52  0.19  1.50  328.0  15.0  296.5  2.0   0  0.00  47.  1001.   4 NAD-SFC NoSubs
11  5 22 142 14  172.2  0.343  1.839  0.008 1290.  482.    -20.9  0.2930  0.52  0.19  2.60  342.0  15.0  297.2  2.0   0  0.00  44.  1000.   3 NAD-SFC NoSubs
11  5 22 142 15  149.6  0.430  1.788  0.009 1366.  678.    -47.5  0.2930  0.52  0.19  3.60  338.0  15.0  297.8  2.0   0  0.00  42.  1000.   3 NAD-SFC NoSubs
11  5 22 142 16  117.2  0.514  1.665  0.009 1407.  885.   -103.6  0.2930  0.52  0.20  4.60  346.0  15.0  297.8  2.0   0  0.00  41.  1000.   3 NAD-SFC NoSubs
11  5 22 142 17   76.8  0.551  1.455  0.009 1433.  980.   -194.0  0.2940  0.52  0.22  5.10    4.0  15.0  297.5  2.0   0  0.00  44.  1000.   3 NAD-SFC NoSubs
11  5 22 142 18   30.6  0.391  1.073  0.009 1441.  608.   -173.7  0.2930  0.52  0.30  3.60  346.0  15.0  296.1  2.0   0  0.00  55.  1000.   3 NAD-SFC NoSubs
11  5 22 142 19  -24.3  0.358 -9.000 -9.000 -999.  514.    167.4  0.2930  0.52  0.55  3.60  336.0  15.0  294.9  2.0   0  0.00  60.  1000.   3 NAD-SFC NoSubs
11  5 22 142 20  -40.7  0.397 -9.000 -9.000 -999.  601.    137.5  0.2720  0.52  1.00  4.10  315.0  15.0  293.8  2.0   0  0.00  63.  1001.   3 NAD-SFC NoSubs
11  5 22 142 21  -48.2  0.468 -9.000 -9.000 -999.  767.    189.2  0.2160  0.52  1.00  5.10  281.0  15.0  291.8  2.0   0  0.00  67.  1001.   3 NAD-SFC NoSubs
11  5 22 142 22  -54.7  0.525 -9.000 -9.000 -999.  912.    236.5  0.2160  0.52  1.00  5.70  294.0  15.0  289.2  2.0   0  0.00  67.  1002.   3 NAD-SFC NoSubs
11  5 22 142 23  -39.0  0.373 -9.000 -9.000 -999.  565.    118.5  0.2160  0.52  1.00  4.10  290.0  15.0  287.9  2.0   0  0.00  71.  1002.   3 NAD-SFC NoSubs
11  5 22 142 24  -29.2  0.278 -9.000 -9.000 -999.  358.     65.8  0.2160  0.52  1.00  3.10  294.0  15.0  287.0  2.0   0  0.00  75.  1003.   3 NAD-SFC NoSubs
11  5 23 143  1  -24.8  0.246 -9.000 -9.000 -999.  293.     53.8  0.2720  0.52  1.00  2.60  305.0  15.0  286.4  2.0   0  0.00  76.  1004.   3 NAD-SFC NoSubs
11  5 23 143  2  -14.1  0.183 -9.000 -9.000 -999.  189.     39.2  0.2160  0.52  1.00  2.10  271.0  15.0  286.1  2.0   0  0.00  76.  1005.   4 NAD-SFC NoSubs
11  5 23 143  3  -20.1  0.218 -9.000 -9.000 -999.  245.     46.5  0.1750  0.52  1.00  2.60  262.0  15.0  285.8  2.0   0  0.00  76.  1005.   4 NAD-SFC NoSubs
11  5 23 143  4  -27.1  0.279 -9.000 -9.000 -999.  353.     71.6  0.2160  0.52  1.00  3.10  274.0  15.0  285.0  2.0   0  0.00  78.  1005.   5 NAD-SFC NoSubs
11  5 23 143  5  -21.2  0.280 -9.000 -9.000 -999.  356.     93.1  0.2160  0.52  1.00  3.10  281.0  15.0  284.4  2.0   0  0.00  80.  1006.   8 NAD-SFC NoSubs
11  5 23 143  6  -10.8  0.284 -9.000 -9.000 -999.  364.    191.7  0.2160  0.52  0.48  3.10  279.0  15.0  284.4  2.0   0  0.00  80.  1006.  10 NAD-SFC NoSubs
11  5 23 143  7    6.2  0.318  0.272  0.005  115.  430.   -464.6  0.2720  0.52  0.28  3.10  305.0  15.0  284.9  2.0   0  0.00  78.  1007.  10 NAD-SFC NoSubs
11  5 23 143  8   17.6  0.329  0.587  0.005  412.  453.   -181.3  0.2720  0.52  0.22  3.10  320.0  15.0  285.1  2.0   0  0.00  76.  1007.  10 NAD-SFC NoSubs
11  5 23 143  9   27.5  0.336  0.721  0.006  489.  467.   -123.7  0.2720  0.52  0.20  3.10  318.0  15.0  285.2  2.0   0  0.00  77.  1007.  10 NAD-SFC NoSubs
11  5 23 143 10   35.3  0.300  0.826  0.006  573.  395.    -68.7  0.2930  0.52  0.19  2.60  334.0  15.0  285.6  2.0   0  0.00  76.  1007.  10 NAD-SFC NoSubs
11  5 23 143 11  138.2  0.230  1.418  0.007  742.  267.     -7.9  0.2930  0.52  0.19  1.50  345.0  15.0  286.9  2.0   0  0.00  72.  1007.   7 NAD-SFC NoSubs
11  5 23 143 12  173.4  0.237  1.615  0.007  873.  277.     -6.9  0.2930  0.52  0.19  1.50  332.0  15.0  287.5  2.0   0  0.00  69.  1007.   5 NAD-SFC NoSubs
11  5 23 143 13  172.7  0.237  1.680  0.007  986.  277.     -6.9  0.2930  0.52  0.19  1.50  343.0  15.0  288.2  2.0   0  0.00  67.  1006.   5 NAD-SFC NoSubs
11  5 23 143 14  162.0  0.294  1.693  0.006 1078.  382.    -14.0  0.2940  0.52  0.19  2.10   15.0  15.0  289.4  2.0   0  0.00  62.  1006.   5 NAD-SFC NoSubs
11  5 23 143 15  132.3  0.380  1.617  0.006 1148.  563.    -37.3  0.2940  0.52  0.19  3.10    6.0  15.0  290.4  2.0   0  0.00  58.  1005.   6 NAD-SFC NoSubs
11  5 23 143 16   93.3  0.508  1.459  0.006 1194.  869.   -126.1  0.2940  0.52  0.20  4.60   10.0  15.0  290.8  2.0   0  0.00  58.  1005.   7 NAD-SFC NoSubs
11  5 23 143 17   68.5 -9.000 -9.000 -9.000 1227. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0  290.5  2.0   0  0.00  59.  1005.   6 NAD-SFC NoSubs
11  5 23 143 18   29.7  0.438  1.009  0.006 1240.  695.   -252.6  0.2940  0.52  0.30  4.10   19.0  15.0  290.0  2.0   0  0.00  65.  1005.   4 NAD-SFC NoSubs
11  5 23 143 19  -24.7  0.340 -9.000 -9.000 -999.  482.    142.7  0.2470  0.52  0.55  3.60   52.0  15.0  288.5  2.0   0  0.00  75.  1006.   3 NAD-SFC NoSubs
11  5 23 143 20  -29.2  0.277 -9.000 -9.000 -999.  352.     65.3  0.2130  0.52  1.00  3.10   94.0  15.0  286.9  2.0   0  0.00  82.  1006.   3 NAD-SFC NoSubs
11  5 23 143 21  -21.5  0.225 -9.000 -9.000 -999.  257.     47.5  0.1970  0.52  1.00  2.60  124.0  15.0  286.2  2.0   0  0.00  85.  1006.   3 NAD-SFC NoSubs
11  5 23 143 22  -28.7  0.271 -9.000 -9.000 -999.  339.     62.4  0.1970  0.52  1.00  3.10  149.0  15.0  285.8  2.0   0  0.00  86.  1006.   3 NAD-SFC NoSubs
11  5 23 143 23  -20.8  0.220 -9.000 -9.000 -999.  249.     46.0  0.1810  0.52  1.00  2.60  161.0  15.0  285.8  2.0   0  0.00  87.  1006.   3 NAD-SFC NoSubs
11  5 23 143 24   -6.6  0.123 -9.000 -9.000 -999.  108.     25.5  0.1810  0.52  1.00  1.50  154.0  15.0  285.5  2.0   0  0.00  87.  1006.   4 NAD-SFC NoSubs
11  5 24 144  1   -3.5  0.095 -9.000 -9.000 -999.   71.     22.3  0.2130  0.52  1.00  1.00  116.0  15.0  285.0  2.0   0  0.00  90.  1006.   4 NAD-SFC NoSubs
11  5 24 144  2   -3.5  0.096 -9.000 -9.000 -999.   71.     22.3  0.2130  0.52  1.00  1.00  112.0  15.0  284.2  2.0   0  0.00  93.  1006.   4 NAD-SFC NoSubs
11  5 24 144  3   -7.2  0.128 -9.000 -9.000 -999.  110.     26.4  0.2130  0.52  1.00  1.50  111.0  15.0  283.8  2.0   0  0.00  95.  1007.   3 NAD-SFC NoSubs
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11	5	24	144	4	-3.5	0.095	-9.000	-9.000	-999.	71.	22.1	0.1970	0.52	1.00	1.00	124.0	15.0	283.2	2.0	0	0.00	95.	1007.	3	NAD-SFC NoSubs
11	5	24	144	5	-1.5	0.080	-9.000	-9.000	-999.	55.	31.2	0.1970	0.52	1.00	0.50	121.0	15.0	283.0	2.0	0	0.00	94.	1007.	3	NAD-SFC NoSubs
11	5	24	144	6	-0.6	0.055	-9.000	-9.000	-999.	31.	23.5	0.1970	0.52	0.47	0.50	127.0	15.0	283.0	2.0	0	0.00	93.	1008.	3	NAD-SFC NoSubs
11	5	24	144	7	37.5	0.089	0.520	0.005	135.	64.	-1.7	0.1810	0.52	0.28	0.50	165.0	15.0	285.8	2.0	0	0.00	80.	1008.	3	NAD-SFC NoSubs
11	5	24	144	8	82.8	0.100	1.027	0.005	471.	76.	-1.1	0.1900	0.52	0.22	0.50	181.0	15.0	287.5	2.0	0	0.00	72.	1008.	3	NAD-SFC NoSubs
11	5	24	144	9	121.7	0.104	1.342	0.008	715.	81.	-1.0	0.1810	0.52	0.20	0.50	168.0	15.0	289.0	2.0	0	0.00	65.	1008.	2	NAD-SFC NoSubs
11	5	24	144	10	153.0	-9.000	-9.000	-9.000	849.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	290.9	2.0	0	0.00	56.	1007.	2	NAD-SFC NoSubs
11	5	24	144	11	174.3	-9.000	-9.000	-9.000	977.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	292.5	2.0	0	0.00	49.	1007.	2	NAD-SFC NoSubs
11	5	24	144	12	184.4	-9.000	-9.000	-9.000	1052.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.0	2.0	0	0.00	42.	1006.	2	NAD-SFC NoSubs
11	5	24	144	13	183.9	0.115	1.792	0.010	1123.	93.	-1.0	0.2160	0.52	0.19	0.50	288.0	15.0	295.4	2.0	0	0.00	36.	1005.	2	NAD-SFC NoSubs
11	5	24	144	14	172.5	0.180	1.786	0.009	1186.	184.	-3.1	0.2720	0.52	0.19	1.00	314.0	15.0	296.4	2.0	0	0.00	32.	1004.	2	NAD-SFC NoSubs
11	5	24	144	15	149.9	0.291	1.729	0.009	1237.	377.	-14.7	0.2930	0.52	0.19	2.10	344.0	15.0	297.1	2.0	0	0.00	29.	1004.	2	NAD-SFC NoSubs
11	5	24	144	16	117.4	0.331	1.611	0.009	1276.	456.	-27.5	0.2940	0.52	0.20	2.60	2.0	15.0	297.2	2.0	0	0.00	29.	1003.	2	NAD-SFC NoSubs
11	5	24	144	17	76.7	0.365	1.407	0.009	1301.	528.	-56.6	0.2940	0.52	0.22	3.10	9.0	15.0	297.2	2.0	0	0.00	31.	1003.	2	NAD-SFC NoSubs
11	5	24	144	18	30.4	0.297	1.037	0.009	1309.	392.	-77.3	0.2940	0.52	0.30	2.60	29.0	15.0	296.4	2.0	0	0.00	42.	1003.	2	NAD-SFC NoSubs
11	5	24	144	19	-16.7	0.242	-9.000	-9.000	-999.	288.	76.1	0.2470	0.52	0.54	2.60	44.0	15.0	295.8	2.0	0	0.00	43.	1004.	2	NAD-SFC NoSubs
11	5	24	144	20	-7.6	0.133	-9.000	-9.000	-999.	123.	27.9	0.2470	0.52	1.00	1.50	58.0	15.0	294.5	2.0	0	0.00	46.	1004.	2	NAD-SFC NoSubs
11	5	24	144	21	-1.4	0.079	-9.000	-9.000	-999.	54.	31.0	0.1810	0.52	1.00	0.50	170.0	15.0	293.1	2.0	0	0.00	51.	1004.	2	NAD-SFC NoSubs
11	5	24	144	22	-28.0	0.263	-9.000	-9.000	-999.	324.	58.3	0.1750	0.52	1.00	3.10	252.0	15.0	291.1	2.0	0	0.00	59.	1004.	2	NAD-SFC NoSubs
11	5	24	144	23	-28.1	0.263	-9.000	-9.000	-999.	324.	58.0	0.1750	0.52	1.00	3.10	263.0	15.0	289.5	2.0	0	0.00	68.	1004.	2	NAD-SFC NoSubs
11	5	24	144	24	-13.2	0.173	-9.000	-9.000	-999.	176.	35.1	0.1750	0.52	1.00	2.10	256.0	15.0	289.0	2.0	0	0.00	70.	1004.	2	NAD-SFC NoSubs
11	5	25	145	1	-25.0	0.246	-9.000	-9.000	-999.	293.	53.2	0.2720	0.52	1.00	2.60	303.0	15.0	288.9	2.0	0	0.00	71.	1004.	2	NAD-SFC NoSubs
11	5	25	145	2	-32.5	0.303	-9.000	-9.000	-999.	400.	76.5	0.2930	0.52	1.00	3.10	333.0	15.0	288.4	2.0	0	0.00	75.	1004.	2	NAD-SFC NoSubs
11	5	25	145	3	-32.6	0.303	-9.000	-9.000	-999.	400.	76.3	0.2930	0.52	1.00	3.10	343.0	15.0	287.8	2.0	0	0.00	81.	1005.	2	NAD-SFC NoSubs
11	5	25	145	4	-16.7	0.200	-9.000	-9.000	-999.	219.	42.7	0.2930	0.52	1.00	2.10	354.0	15.0	287.5	2.0	0	0.00	83.	1005.	2	NAD-SFC NoSubs
11	5	25	145	5	-4.1	0.103	-9.000	-9.000	-999.	84.	23.6	0.2930	0.52	1.00	1.00	347.0	15.0	287.2	2.0	0	0.00	83.	1005.	2	NAD-SFC NoSubs
11	5	25	145	6	-0.7	0.058	-9.000	-9.000	-999.	34.	24.7	0.2940	0.52	0.47	0.50	10.0	15.0	287.1	2.0	0	0.00	83.	1005.	2	NAD-SFC NoSubs
11	5	25	145	7	37.0	0.152	0.594	0.008	203.	142.	-8.5	0.2940	0.52	0.28	1.00	20.0	15.0	287.2	2.0	0	0.00	80.	1005.	2	NAD-SFC NoSubs
11	5	25	145	8	82.5	0.167	0.903	0.006	320.	164.	-5.1	0.2940	0.52	0.22	1.00	24.0	15.0	288.2	2.0	0	0.00	72.	1006.	2	NAD-SFC NoSubs
11	5	25	145	9	122.1	-9.000	-9.000	-9.000	489.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	289.8	2.0	0	0.00	64.	1006.	2	NAD-SFC NoSubs
11	5	25	145	10	153.3	-9.000	-9.000	-9.000	693.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	291.2	2.0	0	0.00	58.	1006.	2	NAD-SFC NoSubs
11	5	25	145	11	174.6	-9.000	-9.000	-9.000	870.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	292.8	2.0	0	0.00	52.	1005.	2	NAD-SFC NoSubs
11	5	25	145	12	184.7	0.123	1.723	0.012	995.	103.	-1.0	0.2930	0.52	0.19	0.50	337.0	15.0	294.2	2.0	0	0.00	47.	1005.	2	NAD-SFC NoSubs
11	5	25	145	13	184.1	0.185	1.757	0.012	1057.	191.	-3.1	0.2930	0.52	0.19	1.00	336.0	15.0	295.2	2.0	0	0.00	42.	1004.	2	NAD-SFC NoSubs
11	5	25	145	14	172.6	0.237	1.749	0.012	1112.	277.	-6.9	0.2930	0.52	0.19	1.50	337.0	15.0	296.0	2.0	0	0.00	37.	1004.	2	NAD-SFC NoSubs
11	5	25	145	15	150.0	0.233	1.692	0.011	1157.	269.	-7.5	0.2930	0.52	0.19	1.50	341.0	15.0	296.6	2.0	0	0.00	34.	1004.	3	NAD-SFC NoSubs
11	5	25	145	16	118.1	0.325	1.577	0.011	1192.	445.	-26.1	0.2720	0.52	0.20	2.60	316.0	15.0	297.2	2.0	0	0.00	33.	1004.	3	NAD-SFC NoSubs
11	5	25	145	17	77.9	0.384	1.381	0.011	1214.	571.	-65.1	0.2160	0.52	0.22	3.60	299.0	15.0	297.1	2.0	0	0.00	38.	1004.	3	NAD-SFC NoSubs
11	5	25	145	18	32.0	0.322	1.030	0.011	1222.	441.	-93.2	0.2160	0.52	0.30	3.10	293.0	15.0	296.2	2.0	0	0.00	51.	1004.	3	NAD-SFC NoSubs
11	5	25	145	19	-30.4	0.472	-9.000	-9.000	-999.	779.	311.0	0.2160	0.52	0.54	5.10	280.0	15.0	293.4	2.0	0	0.00	61.	1005.	3	NAD-SFC NoSubs
11	5	25	145	20	-46.9	0.468	-9.000	-9.000	-999.	768.	196.0	0.2160	0.52	1.00	5.10	294.0	15.0	290.8	2.0	0	0.00	71.	1006.	4	NAD-SFC NoSubs
11	5	25	145	21	-37.6	0.373	-9.000	-9.000	-999.	553.	123.8	0.2160	0.52	1.00	4.10	298.0	15.0	289.1	2.0	0	0.00	75.	1007.	4	NAD-SFC NoSubs
11	5	25	145	22	-35.2	0.347	-9.000	-9.000	-999.	491.	106.8	0.2720	0.52	1.00	3.60	303.0	15.0	287.9	2.0	0	0.00	76.	1008.	4	NAD-SFC NoSubs
11	5	25	145	23	-30.2	0.297	-9.000	-9.000	-999.	389.	77.8	0.2720	0.52	1.00	3.10	302.0	15.0	286.8	2.0	0	0.00	77.	1008.	4	NAD-SFC NoSubs
11	5	25	145	24	-28.4	0.278	-9.000	-9.000	-999.	353.	68.1	0.2160	0.52	1.00	3.10	295.0	15.0	285.8	2.0	0	0.00	76.	1008.	4	NAD-SFC NoSubs
11	5	26	146	1	-22.1	0.231	-9.000	-9.000	-999.	267.	50.1	0.2160	0.52	1.00	2.60	279.0	15.0	285.0	2.0	0	0.00	75.	1008.	4	NAD-SFC NoSubs
11	5	26	146	2	-22.1	0.231	-9.000	-9.000	-999.	266.	50.1	0.2160	0.52	1.00	2.60	279.0	15.0	284.4	2.0	0	0.00	74.	1008.	4	NAD-SFC NoSubs
11	5	26	146	3	-14.4	0.183	-9.000	-9.000	-999.	188.	38.2	0.2160	0.52	1.00	2.10	278.0	15.0	283.9	2.0	0	0.00	72.	1007.	3	NAD-SFC NoSubs
11	5	26	146	4	-7.2	0.129	-9.000	-9.000	-999.	112.	26.5	0.2160	0.52	1.00	1.50	276.0	15.0	283.5	2.0	0	0.00	71.	1007.	3	NAD-SFC NoSubs
11	5	26	146	5	-1.5	0.081	-9.000	-9.000	-999.	56.	31.4	0.2160	0.52	1.00	0.50	279.0	15.0	283.1	2.0	0	0.00	71.	1007.	3	NAD-SFC NoSubs
11	5	26	146	6	-0.7	0.057	-9.000	-9.000	-999.	33.	24.3	0.2160	0.52	0.47	0.50	278.0	15.0	283.0	2.0	0	0.00	71.	1008.	2	NAD-SFC NoSubs
11	5	26	146	7	36.7	0.099	0.632	0.006	247.	74.	-2.3	0.2930	0.52	0.28	0.50	350.0	15.0	284.5	2.0	0	0.00	67.	1008.	2	NAD-SFC NoSubs
11	5	26	146	8	82.2	-9.000	-9.000	-9.000	378.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	286.0	2.0	0	0.00	62.	1008.	2	NAD-SFC NoSubs
11	5	26	146	9	121.8	-9.000	-9.000	-9.000	549.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	287.8	2.0	0	0.00	57.	1008.	2	NAD-SFC NoSubs
11	5	26	146	10	152.9	-9.000	-9.000	-9.000	736.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	289.2	2.0	0	0.00	52.	1007.	2	NAD-SFC NoSubs
11	5	26	146	11	174.1	-9.000	-9.000	-9.000	943.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	290.8	2.0	0	0.00	45.	1007.	2	NAD-SFC NoSubs
11	5	26	146	12	183.9	0.121	1.757	0.009	1060.	101.	-1.0	0.2720	0.52	0.19	0.50	303.0	15.0	292.2	2.0	0	0.00	38.	1006.	3	NAD-SFC NoSubs
11	5	26	146	13	183.7	0.235	1.808	0.009	1156.	273.	-6.3	0.2720	0.52	0.19	1.50	322.0	15.0	293.6	2.0	0	0.00	34.	1005.	2	NAD-SFC NoSubs
11	5	26	146	14	172.3	0.343	1.811	0.010	1238.	482.	-21.0	0.2930	0.52	0.19	2.60	332.0	15.0	294.6	2.0	0	0.00	30.	1005.	2	NAD-SFC NoSubs
11	5	26	146	15	149.7	0.430	1.760	0.010	1306.	677.	-47.7	0.2930	0.52	0.19	3.60	337.0	15.0	295.2	2.0	0	0.00	28.	1004.	2	NAD-SFC NoSubs
11	5	26	146	16	117.4	0.514	1.642	0.010	1352.	884.	-103.8	0.2930	0.52	0.20	4.60	347.0	15.0	295.4	2.0	0	0.00	28.	1004.	2	NAD-SFC NoSubs
11	5	26	146	17	76.7	0.503	1.433	0.010	1375.	857.	-148.7	0.2930	0.52	0.22	4.60	354.0	15.0	295.1	2.0	0	0.00	33.	1004.	2	NAD-SFC NoSubs
11	5	26	146	18	30.6	0.344	1.057	0.010	1383.	504.	-118.7	0.2930	0.52	0.30	3.10	347.0	15.0	294.2	2.0	0	0.00	45.	1004.	2	NAD-SFC NoSubs
11	5	26	146	19	-28.1	0.409	-9.000	-9.000	-999.	628.	218.6	0.2930	0.52	0.53	4.10	342.0	15.0	292.8	2.0	0	0.00	50.	1004.	2	NAD-SFC NoSubs
11	5	26	146	20	-43.2	0.406	-9.000	-9.000	-999.	620.	138.5	0.2930	0.52	1.00	4.10	330.0	15.0	291.0	2.0	0	0.00	56.	1005.	2	NAD-SFC NoSubs
11	5	26	146	21	-37.9	0.354	-9.000	-9.000	-999.	508.	105.1	0.2930	0.52	1.00	3.60	338.0	15.0	289.8	2.0	0	0.00	59.	1005.	2	NAD-SFC NoSubs
11	5	26	146	22	-31.7	0.303	-9.000	-9.000	-999.	402.	78.8	0.2930	0.52	1.00	3.10	349.0	15.0	289.1	2.0	0	0.00	60.	1005.	3	NAD-SFC NoSubs
11	5	26	146	23	-24.8	0.246	-9.000	-9.000	-999.	294.	54.0	0.2720	0.52	1.00	2.60	327.0	15.0	288.5	2.0	0	0.00	61.	1006.	3	NAD-SFC NoSubs
11	5	26	146	24	-24.8	0.246	-9.000	-9.000	-999.	293.	53.9	0.2720	0.52	1.00	2.60	308.0	15.0	287.6	2.0	0	0.00	64.	1006.	3	NAD-SFC NoSubs
11	5	27	147	1	-16.5	0.200	-9.000	-9.000	-999.	215.	43.3	0.2930	0.52	1.00	2.10	338.0	15.0	286.8	2.0	0	0.00	69.	1006.	3	NAD-SFC NoSubs
11	5	27	147	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	286.1	2.0	0	0.00	73.	1006.	3	NAD-SFC NoSubs
11	5	27	147	3	-8.3	0.140	-9.000	-9.000	-999.	126.	29.6	0.2940	0.52	1.00	1.50	24.0	15.0	285.5	2.0	0	0.00	77.	1006.	3	NAD-SFC NoSubs
11	5	27	147	4	-1.5	0.081	-9.000	-9.000	-999.	56.	31.3	0.2090	0.52	1.00	0.50	61.0	15.0	284.9	2.0	0	0.00	80.	1006.	3	NAD-SFC NoSubs
11	5	27	147	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	284.5	2.0	0	0.00	83.	1006.	3	NAD-SFC NoSubs
11	5	27	147	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.47	0.00	0.0	15.0	284.2	2.0	0	0.00	85.	1007.	3	NAD-SFC NoSubs
11	5	27	147	7	38.3	0.153	0.634	0.007	239.	143.	-8.3	0.2940	0.52	0.28	1.00	12.0	15.0	285.8	2.0	0	0.00	78.	1007.	3	NAD-SFC NoSubs
11	5	27	147	8	83.4	-9.000	-9.000	-9.000	390.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	287.0	2.0	0	0.00	72.	1007.	3	NAD-SFC NoSubs

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11  5 27 147  9  122.5 -9.000 -9.000 -9.000  543. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 288.8  2.0    0  0.00   63. 1007.    3 NAD-SFC NoSubs
11  5 27 147 10  153.5 -9.000 -9.000 -9.000  701. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 290.6  2.0    0  0.00   55. 1007.    3 NAD-SFC NoSubs
11  5 27 147 11  174.6 -9.000 -9.000 -9.000  881. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 292.2  2.0    0  0.00   50. 1006.    3 NAD-SFC NoSubs
11  5 27 147 12  184.5  0.121  1.731  0.010 1010.  101.     -1.0 0.2720  0.52  0.19  0.50  322.0  15.0 293.6  2.0    0  0.00   47. 1005.    3 NAD-SFC NoSubs
11  5 27 147 13  184.0  0.235  1.776  0.010 1091.  273.     -6.3 0.2720  0.52  0.19  1.50  328.0  15.0 294.8  2.0    0  0.00   44. 1004.    3 NAD-SFC NoSubs
11  5 27 147 14  172.7  0.389  1.776  0.010 1163.  582.    -30.5 0.2930  0.52  0.19  3.10  340.0  15.0 295.6  2.0    0  0.00   43. 1003.    3 NAD-SFC NoSubs
11  5 27 147 15  150.4  0.476  1.724  0.010 1221.  788.    -64.3 0.2930  0.52  0.19  4.10  354.0  15.0 296.1  2.0    0  0.00   43. 1003.    3 NAD-SFC NoSubs
11  5 27 147 16  118.3  0.515  1.611  0.010 1265.  885.   -102.9 0.2930  0.52  0.20  4.60  346.0  15.0 296.1  2.0    0  0.00   44. 1002.    3 NAD-SFC NoSubs
11  5 27 147 17   78.1  0.551  1.413  0.010 1293.  979.   -190.9 0.2930  0.52  0.22  5.10  348.0  15.0 295.8  2.0    0  0.00   48. 1002.    3 NAD-SFC NoSubs
11  5 27 147 18   32.4  0.392  1.057  0.010 1302.  610.   -165.4 0.2930  0.52  0.30  3.60  337.0  15.0 294.8  2.0    0  0.00   61. 1002.    3 NAD-SFC NoSubs
11  5 27 147 19  -25.1  0.410 -9.000 -9.000 -999.  631.    246.4 0.2930  0.52  0.53  4.10  345.0  15.0 292.8  2.0    0  0.00   68. 1002.    3 NAD-SFC NoSubs
11  5 27 147 20  -40.5  0.406 -9.000 -9.000 -999.  621.    148.0 0.2930  0.52  1.00  4.10  351.0  15.0 291.2  2.0    0  0.00   75. 1002.    4 NAD-SFC NoSubs
11  5 27 147 21  -33.8  0.355 -9.000 -9.000 -999.  510.    118.4 0.2930  0.52  1.00  3.60  355.0  15.0 290.0  2.0    0  0.00   80. 1003.    5 NAD-SFC NoSubs
11  5 27 147 22  -22.7  0.305 -9.000 -9.000 -999.  407.    112.4 0.2930  0.52  1.00  3.10  346.0  15.0 289.0  2.0    0  0.00   82. 1003.    8 NAD-SFC NoSubs
11  5 27 147 23  -14.0  0.256 -9.000 -9.000 -999.  312.    107.1 0.2930  0.52  1.00  2.60  336.0  15.0 288.6  2.0    0  0.00   81. 1003.   10 NAD-SFC NoSubs
11  5 27 147 24  -18.5  0.249 -9.000 -9.000 -999.  298.     74.2 0.2720  0.52  1.00  2.60  320.0  15.0 288.2  2.0    0  0.00   82. 1002.    8 NAD-SFC NoSubs
11  5 28 148  1  -28.5  0.297 -9.000 -9.000 -999.  389.     82.2 0.2720  0.52  1.00  3.10  310.0  15.0 287.6  2.0    0  0.00   84. 1002.    5 NAD-SFC NoSubs
11  5 28 148  2  -30.0  0.297 -9.000 -9.000 -999.  388.     77.8 0.2720  0.52  1.00  3.10  324.0  15.0 286.8  2.0    0  0.00   87. 1002.    4 NAD-SFC NoSubs
11  5 28 148  3  -30.1  0.297 -9.000 -9.000 -999.  388.     77.6 0.2720  0.52  1.00  3.10  318.0  15.0 286.1  2.0    0  0.00   89. 1002.    4 NAD-SFC NoSubs
11  5 28 148  4  -24.4  0.246 -9.000 -9.000 -999.  294.     54.8 0.2720  0.52  1.00  2.60  328.0  15.0 285.4  2.0    0  0.00   91. 1002.    4 NAD-SFC NoSubs
11  5 28 148  5  -24.4  0.252 -9.000 -9.000 -999.  304.     58.8 0.2930  0.52  1.00  2.60  334.0  15.0 285.4  2.0    0  0.00   89. 1002.    5 NAD-SFC NoSubs
11  5 28 148  6   -4.5  0.256 -9.000 -9.000 -999.  312.    333.3 0.2720  0.52  0.46  2.60  328.0  15.0 285.5  2.0    0  0.00   87. 1003.    5 NAD-SFC NoSubs
11  5 28 148  7   38.5  0.302  0.640  0.005  243.  398.    -64.1 0.2930  0.52  0.28  2.60  344.0  15.0 285.9  2.0    0  0.00   82. 1003.    5 NAD-SFC NoSubs
11  5 28 148  8   83.0  0.275  1.015  0.005  451.  346.    -22.3 0.2930  0.52  0.22  2.10  346.0  15.0 286.6  2.0    0  0.00   76. 1003.    4 NAD-SFC NoSubs
11  5 28 148  9  122.5  0.111  1.302  0.005  644.  114.     -1.0 0.2470  0.52  0.20  0.50   44.0  15.0 287.9  2.0    0  0.00   70. 1002.    3 NAD-SFC NoSubs
11  5 28 148 10  153.2 -9.000 -9.000 -9.000  844. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 289.2  2.0    0  0.00   64. 1002.    3 NAD-SFC NoSubs
11  5 28 148 11  172.0 -9.000 -9.000 -9.000 1004. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 291.1  2.0    0  0.00   56. 1001.    4 NAD-SFC NoSubs
11  5 28 148 12  181.8 -9.000 -9.000 -9.000 1106. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 292.8  2.0    0  0.00   49. 1000.    4 NAD-SFC NoSubs
11  5 28 148 13  184.0  0.185  1.835  0.008 1200.  191.     -3.1 0.2930  0.52  0.19  1.00  351.0  15.0 294.0  2.0    0  0.00   43.  999.    3 NAD-SFC NoSubs
11  5 28 148 14  172.7  0.296  1.838  0.008 1283.  386.    -13.3 0.2930  0.52  0.19  2.10  353.0  15.0 294.9  2.0    0  0.00   40.  998.    3 NAD-SFC NoSubs
11  5 28 148 15  150.4  0.385  1.786  0.009 1350.  572.    -33.6 0.2930  0.52  0.19  3.10  348.0  15.0 295.5  2.0    0  0.00   38.  997.    3 NAD-SFC NoSubs
11  5 28 148 16  118.4  0.515  1.667  0.009 1394.  886.   -102.4 0.2930  0.52  0.20  4.60  348.0  15.0 295.5  2.0    0  0.00   38.  997.    3 NAD-SFC NoSubs
11  5 28 148 17   78.1  0.504  1.462  0.009 1422.  859.   -145.4 0.2930  0.52  0.22  4.60  348.0  15.0 294.6  2.0    0  0.00   48.  996.    3 NAD-SFC NoSubs
11  5 28 148 18   32.4  0.439  1.092  0.009 1430.  702.   -231.6 0.2930  0.52  0.30  4.10  351.0  15.0 293.4  2.0    0  0.00   58.  997.    3 NAD-SFC NoSubs
11  5 28 148 19  -25.1  0.464 -9.000 -9.000 -999.  758.    353.2 0.2930  0.52  0.53  4.60  332.0  15.0 291.4  2.0    0  0.00   65.  998.    4 NAD-SFC NoSubs
11  5 28 148 20  -33.2  0.451 -9.000 -9.000 -999.  727.    245.6 0.2720  0.52  1.00  4.60  304.0  15.0 290.1  2.0    0  0.00   69.  998.    8 NAD-SFC NoSubs
11  5 28 148 21  -25.8  0.474 -9.000 -9.000 -999.  783.    367.2 0.2160  0.52  1.00  5.10  289.0  15.0 288.4  2.0    0  0.00   73.  999.   10 NAD-SFC NoSubs
11  5 28 148 22  -26.0  0.474 -9.000 -9.000 -999.  783.    365.0 0.2160  0.52  1.00  5.10  293.0  15.0 286.8  2.0    0  0.00   74.  999.   10 NAD-SFC NoSubs
11  5 28 148 23  -31.2  0.567 -9.000 -9.000 -999. 1024.    520.9 0.2720  0.52  1.00  5.70  302.0  15.0 285.8  2.0    0  0.00   73.  999.   10 NAD-SFC NoSubs
11  5 28 148 24  -23.5  0.426 -9.000 -9.000 -999.  684.    292.7 0.2160  0.52  1.00  4.60  296.0  15.0 285.2  2.0    0  0.00   73.  999.   10 NAD-SFC NoSubs
11  5 29 149  1  -18.2  0.330 -9.000 -9.000 -999.  461.    175.2 0.2160  0.52  1.00  3.60  286.0  15.0 284.8  2.0    0  0.00   73.  999.   10 NAD-SFC NoSubs
11  5 29 149  2  -18.2  0.330 -9.000 -9.000 -999.  454.    175.2 0.2160  0.52  1.00  3.60  290.0  15.0 284.6  2.0    0  0.00   73.  999.   10 NAD-SFC NoSubs
11  5 29 149  3  -18.3  0.330 -9.000 -9.000 -999.  454.    174.9 0.2160  0.52  1.00  3.60  290.0  15.0 284.2  2.0    0  0.00   73. 1000.   10 NAD-SFC NoSubs
11  5 29 149  4  -20.9  0.377 -9.000 -9.000 -999.  556.    229.2 0.2160  0.52  1.00  4.10  286.0  15.0 284.0  2.0    0  0.00   73. 1000.   10 NAD-SFC NoSubs
11  5 29 149  5  -20.9  0.377 -9.000 -9.000 -999.  556.    229.0 0.2160  0.52  1.00  4.10  294.0  15.0 283.8  2.0    0  0.00   72. 1000.   10 NAD-SFC NoSubs
11  5 29 149  6  -12.6  0.355 -9.000 -9.000 -999.  507.    314.8 0.2720  0.52  0.46  3.60  300.0  15.0 283.6  2.0    0  0.00   72. 1001.   10 NAD-SFC NoSubs
11  5 29 149  7   26.7  0.629  0.718  0.005  495. 1196.   -829.1 0.2720  0.52  0.28  6.20  325.0  15.0 284.1  2.0    0  0.00   62. 1001.    8 NAD-SFC NoSubs
11  5 29 149  8   75.9  0.655  1.147  0.005  711. 1270.   -330.5 0.2930  0.52  0.22  6.20  330.0  15.0 285.2  2.0    0  0.00   55. 1002.    6 NAD-SFC NoSubs
11  5 29 149  9  117.1  0.664  1.445  0.005  921. 1299.   -223.7 0.2930  0.52  0.20  6.20  334.0  15.0 286.2  2.0    0  0.00   51. 1002.    5 NAD-SFC NoSubs
11  5 29 149 10  150.9  0.706  1.684  0.005 1132. 1422.   -208.6 0.2720  0.52  0.19  6.70  327.0  15.0 287.2  2.0    0  0.00   46. 1002.    4 NAD-SFC NoSubs
11  5 29 149 11  173.8  0.770  1.864  0.005 1335. 1618.   -234.8 0.2930  0.52  0.19  7.20  334.0  15.0 288.4  2.0    0  0.00   42. 1002.    3 NAD-SFC NoSubs
11  5 29 149 12  183.5  0.805  1.948  0.005 1441. 1730.   -253.7 0.2720  0.52  0.19  7.70  326.0  15.0 289.2  2.0    0  0.00   39. 1001.    3 NAD-SFC NoSubs
11  5 29 149 13  182.9  0.867  1.988  0.006 1538. 1932.   -318.1 0.2930  0.52  0.19  8.20  339.0  15.0 289.9  2.0    0  0.00   37. 1001.    3 NAD-SFC NoSubs
11  5 29 149 14  171.5  0.865  1.982  0.006 1624. 1932.   -337.1 0.2930  0.52  0.19  8.20  334.0  15.0 290.6  2.0    0  0.00   35. 1001.    3 NAD-SFC NoSubs
11  5 29 149 15  149.2  0.814  1.920  0.005 1696. 1770.   -322.0 0.2930  0.52  0.19  7.70  334.0  15.0 291.0  2.0    0  0.00   33. 1000.    3 NAD-SFC NoSubs
11  5 29 149 16  117.4  0.760  1.791  0.005 1750. 1598.   -333.5 0.2930  0.52  0.20  7.20  332.0  15.0 291.4  2.0    0  0.00   32. 1000.    3 NAD-SFC NoSubs
11  5 29 149 17   76.7  0.655  1.566  0.005 1787. 1289.   -326.5 0.2930  0.52  0.22  6.20  333.0  15.0 291.4  2.0    0  0.00   35. 1000.    2 NAD-SFC NoSubs
11  5 29 149 18   30.9  0.338  1.159  0.005 1801.  595.   -111.6 0.2720  0.52  0.29  3.10  321.0  15.0 290.9  2.0    0  0.00   45. 1001.    2 NAD-SFC NoSubs
11  5 29 149 19  -19.6  0.300 -9.000 -9.000 -999.  399.    122.6 0.2720  0.52  0.52  3.10  308.0  15.0 290.4  2.0    0  0.00   44. 1001.    2 NAD-SFC NoSubs
11  5 29 149 20  -29.6  0.278 -9.000 -9.000 -999.  352.     64.7 0.2160  0.52  1.00  3.10  286.0  15.0 289.9  2.0    0  0.00   43. 1002.    2 NAD-SFC NoSubs
11  5 29 149 21  -22.4  0.230 -9.000 -9.000 -999.  266.     48.7 0.2160  0.52  1.00  2.60  286.0  15.0 289.1  2.0    0  0.00   43. 1002.    2 NAD-SFC NoSubs
11  5 29 149 22  -22.5  0.230 -9.000 -9.000 -999.  265.     48.6 0.2160  0.52  1.00  2.60  289.0  15.0 288.0  2.0    0  0.00   46. 1003.    2 NAD-SFC NoSubs
11  5 29 149 23   -7.3  0.129 -9.000 -9.000 -999.  116.     26.3 0.2160  0.52  1.00  1.50  295.0  15.0 286.4  2.0    0  0.00   52. 1004.    2 NAD-SFC NoSubs
11  5 29 149 24   -1.5  0.082 -9.000 -9.000 -999.   56.     31.6 0.2160  0.52  1.00  0.50  297.0  15.0 285.8  2.0    0  0.00   57. 1004.    2 NAD-SFC NoSubs
11  5 30 150  1   -3.7  0.097 -9.000 -9.000 -999.   73.     22.4 0.2160  0.52  1.00  1.00  296.0  15.0 285.1  2.0    0  0.00   60. 1004.    2 NAD-SFC NoSubs
11  5 30 150  2   -4.0  0.101 -9.000 -9.000 -999.   77.     23.3 0.2720  0.52  1.00  1.00  308.0  15.0 284.6  2.0    0  0.00   63. 1005.    2 NAD-SFC NoSubs
11  5 30 150  3   -4.0  0.101 -9.000 -9.000 -999.   77.     23.3 0.2720  0.52  1.00  1.00  310.0  15.0 284.0  2.0    0  0.00   68. 1005.    2 NAD-SFC NoSubs
11  5 30 150  4   -4.0  0.101 -9.000 -9.000 -999.   78.     23.3 0.2720  0.52  1.00  1.00  309.0  15.0 283.4  2.0    0  0.00   72. 1006.    2 NAD-SFC NoSubs
11  5 30 150  5   -4.1  0.103 -9.000 -9.000 -999.   79.     23.6 0.2930  0.52  1.00  1.00  341.0  15.0 282.9  2.0    0  0.00   75. 1006.    2 NAD-SFC NoSubs
11  5 30 150  6   -0.7  0.057 -9.000 -9.000 -999.   33.     24.4 0.2930  0.52  0.46  0.50  353.0  15.0 282.6  2.0    0  0.00   78. 1007.    2 NAD-SFC NoSubs
11  5 30 150  7   37.7 -9.000 -9.000 -9.000  215. -999. -99999.0 0.2235  0.52  0.27  0.00    0.0  15.0 284.4  2.0    0  0.00   74. 1007.    2 NAD-SFC NoSubs
11  5 30 150  8   83.1 -9.000 -9.000 -9.000  350. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0 286.2  2.0    0  0.00   66. 1007.    2 NAD-SFC NoSubs
11  5 30 150  9  122.5 -9.000 -9.000 -9.000  514. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 288.0  2.0    0  0.00   58. 1007.    2 NAD-SFC NoSubs
11  5 30 150 10  153.7 -9.000 -9.000 -9.000  683. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 289.9  2.0    0  0.00   49. 1006.    2 NAD-SFC NoSubs
11  5 30 150 11  175.0 -9.000 -9.000 -9.000  876. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 291.6  2.0    0  0.00   43. 1006.    2 NAD-SFC NoSubs
11  5 30 150 12  185.1  0.115  1.746  0.006 1033.   93.     -1.0 0.2160  0.52  0.19  0.50  296.0  15.0 293.0  2.0    0  0.00   38. 1005.    2 NAD-SFC NoSubs
11  5 30 150 13  184.7  0.115  1.813  0.006 1157.   93.     -1.0 0.2160  0.52  0.19  0.50  296.0  15.0 294.4  2.0    0  0.00   34. 1004.    2 NAD-SFC NoSubs
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11	5	30	150	14	173.5	0.120	1.829	0.006	1263.	99.	-1.0	0.2720	0.52	0.19	0.50	315.0	15.0	295.4	2.0	0	0.00	31.	1003.	2	NAD-SFC	NoSubs
11	5	30	150	15	151.1	0.119	1.785	0.006	1348.	99.	-1.0	0.2930	0.52	0.19	0.50	336.0	15.0	296.1	2.0	0	0.00	29.	1003.	2	NAD-SFC	NoSubs
11	5	30	150	16	119.1	0.227	1.672	0.006	1406.	259.	-8.7	0.2930	0.52	0.20	1.50	357.0	15.0	296.5	2.0	0	0.00	27.	1003.	2	NAD-SFC	NoSubs
11	5	30	150	17	78.8	0.319	1.470	0.006	1443.	433.	-36.9	0.2940	0.52	0.22	2.60	6.0	15.0	296.4	2.0	0	0.00	28.	1002.	2	NAD-SFC	NoSubs
11	5	30	150	18	32.8	0.299	1.101	0.006	1455.	392.	-72.7	0.2940	0.52	0.29	2.60	16.0	15.0	295.5	2.0	0	0.00	39.	1003.	2	NAD-SFC	NoSubs
11	5	30	150	19	-18.2	0.307	-9.000	-9.000	-999.	409.	142.5	0.2940	0.52	0.52	3.10	25.0	15.0	294.5	2.0	0	0.00	43.	1003.	2	NAD-SFC	NoSubs
11	5	30	150	20	-29.4	0.278	-9.000	-9.000	-999.	352.	65.5	0.2160	0.52	1.00	3.10	292.0	15.0	293.2	2.0	0	0.00	46.	1004.	2	NAD-SFC	NoSubs
11	5	30	150	21	-61.4	0.573	-9.000	-9.000	-999.	1040.	274.3	0.2160	0.52	1.00	6.20	272.0	15.0	289.2	2.0	0	0.00	66.	1005.	2	NAD-SFC	NoSubs
11	5	30	150	22	-50.4	0.467	-9.000	-9.000	-999.	777.	181.5	0.2160	0.52	1.00	5.10	270.0	15.0	287.6	2.0	0	0.00	70.	1005.	2	NAD-SFC	NoSubs
11	5	30	150	23	-45.4	0.420	-9.000	-9.000	-999.	655.	145.9	0.2160	0.52	1.00	4.60	278.0	15.0	286.6	2.0	0	0.00	71.	1006.	2	NAD-SFC	NoSubs
11	5	30	150	24	-35.3	0.325	-9.000	-9.000	-999.	451.	87.3	0.2160	0.52	1.00	3.60	293.0	15.0	285.8	2.0	0	0.00	74.	1006.	2	NAD-SFC	NoSubs
11	5	31	151	1	-8.0	0.137	-9.000	-9.000	-999.	158.	28.8	0.2720	0.52	1.00	1.50	323.0	15.0	285.5	2.0	0	0.00	74.	1007.	3	NAD-SFC	NoSubs
11	5	31	151	2	-1.6	0.083	-9.000	-9.000	-999.	60.	31.8	0.2720	0.52	1.00	0.50	322.0	15.0	285.2	2.0	0	0.00	75.	1007.	3	NAD-SFC	NoSubs
11	5	31	151	3	-3.6	0.097	-9.000	-9.000	-999.	72.	22.4	0.2160	0.52	1.00	1.00	272.0	15.0	284.8	2.0	0	0.00	76.	1007.	3	NAD-SFC	NoSubs
11	5	31	151	4	-6.7	0.122	-9.000	-9.000	-999.	103.	24.8	0.1750	0.52	1.00	1.50	261.0	15.0	284.2	2.0	0	0.00	77.	1007.	3	NAD-SFC	NoSubs
11	5	31	151	5	-6.7	0.122	-9.000	-9.000	-999.	103.	24.8	0.1750	0.52	1.00	1.50	264.0	15.0	283.9	2.0	0	0.00	77.	1007.	3	NAD-SFC	NoSubs
11	5	31	151	6	-1.6	0.082	-9.000	-9.000	-999.	56.	31.4	0.1750	0.52	0.46	1.00	247.0	15.0	283.6	2.0	0	0.00	78.	1007.	3	NAD-SFC	NoSubs
11	5	31	151	7	39.0	0.093	0.673	0.007	280.	68.	-1.8	0.2160	0.52	0.27	0.50	276.0	15.0	284.6	2.0	0	0.00	72.	1008.	3	NAD-SFC	NoSubs
11	5	31	151	8	83.9	-9.000	-9.000	-9.000	461.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	285.9	2.0	0	0.00	65.	1008.	3	NAD-SFC	NoSubs
11	5	31	151	9	122.5	-9.000	-9.000	-9.000	586.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	287.4	2.0	0	0.00	61.	1008.	2	NAD-SFC	NoSubs
11	5	31	151	10	153.6	-9.000	-9.000	-9.000	715.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	289.2	2.0	0	0.00	55.	1007.	2	NAD-SFC	NoSubs
11	5	31	151	11	175.0	-9.000	-9.000	-9.000	842.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	291.2	2.0	0	0.00	50.	1007.	2	NAD-SFC	NoSubs
11	5	31	151	12	185.3	-9.000	-9.000	-9.000	960.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	293.2	2.0	0	0.00	43.	1006.	2	NAD-SFC	NoSubs
11	5	31	151	13	185.0	0.123	1.765	0.008	1068.	103.	-1.0	0.2930	0.52	0.19	0.50	341.0	15.0	294.8	2.0	0	0.00	38.	1005.	2	NAD-SFC	NoSubs
11	5	31	151	14	173.7	0.184	1.777	0.009	1161.	189.	-3.2	0.2940	0.52	0.19	1.00	5.0	15.0	295.9	2.0	0	0.00	34.	1005.	3	NAD-SFC	NoSubs
11	5	31	151	15	151.6	0.233	1.736	0.009	1237.	270.	-7.5	0.2940	0.52	0.19	1.50	5.0	15.0	296.6	2.0	0	0.00	32.	1004.	3	NAD-SFC	NoSubs
11	5	31	151	16	119.9	-9.000	-9.000	-9.000	1293.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	297.0	2.0	0	0.00	31.	1004.	3	NAD-SFC	NoSubs
11	5	31	151	17	80.2	0.320	1.438	0.009	1329.	434.	-36.5	0.2940	0.52	0.22	2.60	2.0	15.0	297.1	2.0	0	0.00	31.	1004.	3	NAD-SFC	NoSubs
11	5	31	151	18	34.8	0.300	1.092	0.009	1342.	394.	-69.3	0.2930	0.52	0.29	2.60	334.0	15.0	296.5	2.0	0	0.00	42.	1005.	3	NAD-SFC	NoSubs
11	5	31	151	19	-24.6	0.475	-9.000	-9.000	-999.	785.	390.4	0.2160	0.52	0.51	5.10	294.0	15.0	294.0	2.0	0	0.00	52.	1006.	3	NAD-SFC	NoSubs
11	5	31	151	20	-48.8	0.468	-9.000	-9.000	-999.	768.	188.2	0.2160	0.52	1.00	5.10	284.0	15.0	290.2	2.0	0	0.00	69.	1007.	3	NAD-SFC	NoSubs
11	5	31	151	21	-49.1	0.468	-9.000	-9.000	-999.	767.	187.0	0.2160	0.52	1.00	5.10	281.0	15.0	288.4	2.0	0	0.00	76.	1007.	3	NAD-SFC	NoSubs
11	5	31	151	22	-31.3	0.297	-9.000	-9.000	-999.	411.	74.9	0.2720	0.52	1.00	3.10	315.0	15.0	287.2	2.0	0	0.00	80.	1008.	3	NAD-SFC	NoSubs
11	5	31	151	23	-25.8	0.252	-9.000	-9.000	-999.	304.	55.4	0.2930	0.52	1.00	2.60	337.0	15.0	286.8	2.0	0	0.00	80.	1009.	3	NAD-SFC	NoSubs
11	5	31	151	24	-14.4	0.183	-9.000	-9.000	-999.	189.	38.3	0.2160	0.52	1.00	2.10	287.0	15.0	286.4	2.0	0	0.00	79.	1009.	3	NAD-SFC	NoSubs
11	6	1	152	1	-20.5	0.218	-9.000	-9.000	-999.	245.	45.5	0.1750	0.52	1.00	2.60	264.0	15.0	285.9	2.0	0	0.00	80.	1009.	3	NAD-SFC	NoSubs
11	6	1	152	2	-28.0	0.263	-9.000	-9.000	-999.	324.	58.6	0.1750	0.52	1.00	3.10	255.0	15.0	285.1	2.0	0	0.00	84.	1009.	3	NAD-SFC	NoSubs
11	6	1	152	3	-28.1	0.263	-9.000	-9.000	-999.	324.	58.4	0.1750	0.52	1.00	3.10	258.0	15.0	284.1	2.0	0	0.00	88.	1009.	3	NAD-SFC	NoSubs
11	6	1	152	4	-31.8	0.308	-9.000	-9.000	-999.	411.	83.0	0.1750	0.52	1.00	3.60	267.0	15.0	283.4	2.0	0	0.00	89.	1009.	4	NAD-SFC	NoSubs
11	6	1	152	5	-33.6	0.325	-9.000	-9.000	-999.	445.	92.3	0.2160	0.52	1.00	3.60	285.0	15.0	283.0	2.0	0	0.00	88.	1009.	4	NAD-SFC	NoSubs
11	6	1	152	6	-8.3	0.286	-9.000	-9.000	-999.	368.	253.8	0.2160	0.52	0.46	3.10	283.0	15.0	283.2	2.0	0	0.00	85.	1010.	3	NAD-SFC	NoSubs
11	6	1	152	7	39.1	0.240	0.587	0.005	186.	283.	-31.8	0.2160	0.52	0.27	2.10	292.0	15.0	284.2	2.0	0	0.00	78.	1010.	3	NAD-SFC	NoSubs
11	6	1	152	8	83.9	-9.000	-9.000	-9.000	452.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	285.6	2.0	0	0.00	71.	1010.	3	NAD-SFC	NoSubs
11	6	1	152	9	122.6	-9.000	-9.000	-9.000	615.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	287.4	2.0	0	0.00	62.	1010.	2	NAD-SFC	NoSubs
11	6	1	152	10	153.7	-9.000	-9.000	-9.000	843.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	288.9	2.0	0	0.00	54.	1010.	3	NAD-SFC	NoSubs
11	6	1	152	11	174.7	-9.000	-9.000	-9.000	1011.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	290.5	2.0	0	0.00	44.	1010.	3	NAD-SFC	NoSubs
11	6	1	152	12	184.6	-9.000	-9.000	-9.000	1097.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	291.8	2.0	0	0.00	37.	1009.	3	NAD-SFC	NoSubs
11	6	1	152	13	184.2	0.121	1.820	0.007	1178.	101.	-1.0	0.2720	0.52	0.19	0.50	316.0	15.0	292.9	2.0	0	0.00	33.	1008.	3	NAD-SFC	NoSubs
11	6	1	152	14	173.1	0.183	1.817	0.007	1248.	189.	-3.2	0.2930	0.52	0.19	1.00	330.0	15.0	293.8	2.0	0	0.00	30.	1008.	3	NAD-SFC	NoSubs
11	6	1	152	15	150.9	0.229	1.764	0.006	1308.	263.	-7.1	0.2720	0.52	0.19	1.50	325.0	15.0	294.2	2.0	0	0.00	29.	1007.	2	NAD-SFC	NoSubs
11	6	1	152	16	118.9	0.325	1.649	0.006	1356.	445.	-26.0	0.2720	0.52	0.20	2.60	301.0	15.0	294.5	2.0	0	0.00	28.	1007.	2	NAD-SFC	NoSubs
11	6	1	152	17	78.7	0.427	1.450	0.006	1393.	670.	-88.9	0.2160	0.52	0.22	4.10	288.0	15.0	294.2	2.0	0	0.00	30.	1007.	2	NAD-SFC	NoSubs
11	6	1	152	18	34.0	0.366	1.100	0.006	1406.	535.	-129.9	0.2160	0.52	0.29	3.60	291.0	15.0	293.1	2.0	0	0.00	45.	1008.	3	NAD-SFC	NoSubs
11	6	1	152	19	-25.6	0.474	-9.000	-9.000	-999.	783.	374.8	0.2160	0.52	0.51	5.10	278.0	15.0	290.9	2.0	0	0.00	55.	1008.	3	NAD-SFC	NoSubs
11	6	1	152	20	-55.2	0.525	-9.000	-9.000	-999.	912.	236.0	0.2160	0.52	1.00	5.70	277.0	15.0	288.6	2.0	0	0.00	63.	1009.	3	NAD-SFC	NoSubs
11	6	1	152	21	-49.5	0.467	-9.000	-9.000	-999.	771.	185.9	0.2160	0.52	1.00	5.10	280.0	15.0	286.8	2.0	0	0.00	69.	1010.	3	NAD-SFC	NoSubs
11	6	1	152	22	-39.6	0.372	-9.000	-9.000	-999.	553.	117.5	0.2160	0.52	1.00	4.10	286.0	15.0	285.6	2.0	0	0.00	73.	1011.	3	NAD-SFC	NoSubs
11	6	1	152	23	-34.7	0.325	-9.000	-9.000	-999.	447.	89.3	0.2160	0.52	1.00	3.60	294.0	15.0	284.8	2.0	0	0.00	76.	1011.	3	NAD-SFC	NoSubs
11	6	1	152	24	-29.7	0.278	-9.000	-9.000	-999.	353.	65.1	0.2160	0.52	1.00	3.10	294.0	15.0	284.0	2.0	0	0.00	78.	1011.	3	NAD-SFC	NoSubs
11	6	2	153	1	-22.2	0.231	-9.000	-9.000	-999.	267.	50.0	0.2160	0.52	1.00	2.60	281.0	15.0	283.4	2.0	0	0.00	79.	1011.	4	NAD-SFC	NoSubs
11	6	2	153	2	-22.2	0.231	-9.000	-9.000	-999.	266.	49.9	0.2160	0.52	1.00	2.60	278.0	15.0	282.9	2.0	0	0.00	79.	1011.	4	NAD-SFC	NoSubs
11	6	2	153	3	-13.9	0.184	-9.000	-9.000	-999.	189.	40.0	0.2160	0.52	1.00	2.10	270.0	15.0	282.4	2.0	0	0.00	80.	1011.	5	NAD-SFC	NoSubs
11	6	2	153	4	-3.4	0.095	-9.000	-9.000	-999.	73.	22.4	0.2160	0.52	1.00	1.00	272.0	15.0	282.0	2.0	0	0.00	80.	1011.	5	NAD-SFC	NoSubs
11	6	2	153	5	-1.4	0.078	-9.000	-9.000	-999.	52.	30.6	0.1750	0.52	1.00	0.50	255.0	15.0	281.6	2.0	0	0.00	81.	1011.	4	NAD-SFC	NoSubs
11	6	2	153	6	-0.5	0.050	-9.000	-9.000	-999.	27.	22.6	0.2160	0.52	0.46	0.50	280.0	15.0	281.6	2.0	0	0.00	81.	1012.	3	NAD-SFC	NoSubs
11	6	2	153	7	39.2	-9.000	-9.000	-9.000	256.	-999.	-99999.0	0.2235	0.52	0.27	0.00	0.0	15.0	283.4	2.0	0	0.00	72.	1012.	3	NAD-SFC	NoSubs
11	6	2	153	8	83.9	-9.000	-9.000	-9.000	447.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	284.8	2.0	0	0.00	66.	1012.	3	NAD-SFC	NoSubs
11	6	2	153	9	122.8	-9.000	-9.000	-9.000	622.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	286.4	2.0	0	0.00	60.	1012.	3	NAD-SFC	NoSubs
11	6	2	153	10	153.5	-9.000	-9.000	-9.000	816.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	287.9	2.0	0	0.00	53.	1011.	3	NAD-SFC	NoSubs
11	6	2	153	11	174.6	-9.000	-9.000	-9.000	1000.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	289.5	2.0	0	0.00	46.	1011.	3	NAD-SFC	NoSubs
11	6	2	153	12	184.5	-9.000	-9.000	-9.000	1170.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	290.9	2.0	0	0.00	40.	1010.	3	NAD-SFC	NoSubs
11	6	2	153	13	184.1	0.182	1.888	0.008	1318.	186.	-2.9	0.2720	0.52	0.19	1.00	308.0	15.0	292.1	2.0	0	0.00	35.	1009.	3	NAD-SFC	NoSubs
11	6	2	153	14	173.1	0.291	1.884	0.008	1391.	376.	-12.7	0.2720	0.52	0.19	2.10	321.0	15.0	293.0	2.0	0	0.00	32.	1008.	3	NAD-SFC	NoSubs
11	6	2	153	15	151.0	0.333	1.823	0.008	1443.	461.	-22.0	0.2720	0.52	0.19	2.60	326.0	15.0	293.6	2.0	0	0.00	30.	1007.	2	NAD-SFC	NoSubs
11	6	2	153	16	119.3	0.423	1.700	0.008	1482.	660.	-56.9	0.2930	0.52	0.20	3.60	342.0	15.0	293.8	2.0	0	0.00	31.	1007.	3	NAD-SFC	NoSubs
11	6	2	153	17	79.7	0.457	1.495	0.008	1508.	742.	-107.8	0.2930	0.52	0.22	4.10	347.0	15.0	293.8	2.0	0	0.00	32.	1007.	3	NAD-SFC	NoSubs
11	6	2	153	18	33.3	0.299	1.121	0.008	1518.	412.	-72.1	0.2940	0.52	0.29	2.60	4.0	15.0	293.1	2.0	0	0.00	43.	1006.	2	NAD-SFC	NoSubs

11	6	2	153	19	-17.4	0.307	-9.000	-9.000	-999.	409.	149.8	0.2930	0.52	0.51	3.10	353.0	15.0	292.4	2.0	0	0.00	46.	1006.	2	NAD-SFC	NoSubs
11	6	2	153	20	-37.8	0.354	-9.000	-9.000	-999.	506.	105.7	0.2930	0.52	1.00	3.60	344.0	15.0	291.2	2.0	0	0.00	49.	1006.	2	NAD-SFC	NoSubs
11	6	2	153	21	-37.9	0.354	-9.000	-9.000	-999.	506.	105.3	0.2930	0.52	1.00	3.60	335.0	15.0	290.1	2.0	0	0.00	54.	1006.	2	NAD-SFC	NoSubs
11	6	2	153	22	-37.1	0.354	-9.000	-9.000	-999.	506.	107.7	0.2930	0.52	1.00	3.60	331.0	15.0	288.9	2.0	0	0.00	58.	1006.	3	NAD-SFC	NoSubs
11	6	2	153	23	-25.7	0.252	-9.000	-9.000	-999.	309.	55.5	0.2930	0.52	1.00	2.60	335.0	15.0	287.8	2.0	0	0.00	63.	1006.	3	NAD-SFC	NoSubs
11	6	2	153	24	-16.5	0.200	-9.000	-9.000	-999.	215.	43.3	0.2930	0.52	1.00	2.10	344.0	15.0	286.6	2.0	0	0.00	67.	1006.	3	NAD-SFC	NoSubs
11	6	3	154	1	-16.6	0.200	-9.000	-9.000	-999.	214.	43.2	0.2930	0.52	1.00	2.10	338.0	15.0	285.8	2.0	0	0.00	72.	1006.	3	NAD-SFC	NoSubs
11	6	3	154	2	-4.0	0.102	-9.000	-9.000	-999.	83.	23.6	0.2930	0.52	1.00	1.00	357.0	15.0	284.9	2.0	0	0.00	75.	1006.	3	NAD-SFC	NoSubs
11	6	3	154	3	-1.7	0.084	-9.000	-9.000	-999.	58.	32.0	0.2940	0.52	1.00	0.50	23.0	15.0	284.2	2.0	0	0.00	78.	1006.	3	NAD-SFC	NoSubs
11	6	3	154	4	-1.6	0.083	-9.000	-9.000	-999.	58.	32.0	0.2470	0.52	1.00	0.50	42.0	15.0	283.8	2.0	0	0.00	80.	1006.	2	NAD-SFC	NoSubs
11	6	3	154	5	-1.6	0.083	-9.000	-9.000	-999.	58.	32.0	0.2470	0.52	1.00	0.50	45.0	15.0	283.2	2.0	0	0.00	83.	1006.	2	NAD-SFC	NoSubs
11	6	3	154	6	18.4	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.45	0.00	0.0	15.0	282.9	2.0	0	0.00	85.	1006.	2	NAD-SFC	NoSubs
11	6	3	154	7	38.4	0.099	0.660	0.007	268.	75.	-2.3	0.2940	0.52	0.27	0.50	3.0	15.0	284.6	2.0	0	0.00	78.	1006.	2	NAD-SFC	NoSubs
11	6	3	154	8	83.7	-9.000	-9.000	-9.000	366.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	286.4	2.0	0	0.00	68.	1006.	2	NAD-SFC	NoSubs
11	6	3	154	9	123.0	-9.000	-9.000	-9.000	540.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	288.2	2.0	0	0.00	59.	1005.	2	NAD-SFC	NoSubs
11	6	3	154	10	154.0	-9.000	-9.000	-9.000	735.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	289.8	2.0	0	0.00	53.	1004.	2	NAD-SFC	NoSubs
11	6	3	154	11	175.4	-9.000	-9.000	-9.000	943.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	291.4	2.0	0	0.00	47.	1004.	2	NAD-SFC	NoSubs
11	6	3	154	12	185.5	-9.000	-9.000	-9.000	1058.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	292.8	2.0	0	0.00	40.	1002.	2	NAD-SFC	NoSubs
11	6	3	154	13	185.1	-9.000	-9.000	-9.000	1150.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	293.9	2.0	0	0.00	36.	1001.	2	NAD-SFC	NoSubs
11	6	3	154	14	174.0	0.184	1.816	0.009	1230.	189.	-3.2	0.2930	0.52	0.19	1.00	335.0	15.0	294.8	2.0	0	0.00	33.	1001.	2	NAD-SFC	NoSubs
11	6	3	154	15	151.6	0.233	1.765	0.009	1296.	270.	-7.4	0.2930	0.52	0.19	1.50	355.0	15.0	294.9	2.0	0	0.00	33.	1000.	2	NAD-SFC	NoSubs
11	6	3	154	16	119.6	0.331	1.651	0.009	1344.	458.	-27.1	0.2940	0.52	0.20	2.60	5.0	15.0	294.8	2.0	0	0.00	35.	1000.	2	NAD-SFC	NoSubs
11	6	3	154	17	79.5	-9.000	-9.000	-9.000	1369.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	294.2	2.0	0	0.00	44.	1000.	2	NAD-SFC	NoSubs
11	6	3	154	18	34.0	0.254	1.095	0.009	1380.	307.	-42.9	0.2930	0.52	0.29	2.10	351.0	15.0	294.0	2.0	0	0.00	46.	1000.	2	NAD-SFC	NoSubs
11	6	3	154	19	-15.6	0.331	-9.000	-9.000	-999.	456.	207.4	0.2160	0.52	0.50	3.60	288.0	15.0	293.0	2.0	0	0.00	51.	1000.	3	NAD-SFC	NoSubs
11	6	3	154	20	-38.6	0.373	-9.000	-9.000	-999.	546.	119.7	0.2160	0.52	1.00	4.10	279.0	15.0	290.6	2.0	0	0.00	64.	1001.	3	NAD-SFC	NoSubs
11	6	3	154	21	-33.8	0.325	-9.000	-9.000	-999.	447.	90.9	0.2160	0.52	1.00	3.60	276.0	15.0	289.4	2.0	0	0.00	67.	1001.	3	NAD-SFC	NoSubs
11	6	3	154	22	-30.9	0.297	-9.000	-9.000	-999.	388.	75.4	0.2720	0.52	1.00	3.10	305.0	15.0	289.0	2.0	0	0.00	66.	1001.	3	NAD-SFC	NoSubs
11	6	3	154	23	-25.6	0.252	-9.000	-9.000	-999.	304.	55.6	0.2930	0.52	1.00	2.60	338.0	15.0	288.8	2.0	0	0.00	65.	1001.	3	NAD-SFC	NoSubs
11	6	3	154	24	-16.6	0.200	-9.000	-9.000	-999.	215.	42.9	0.2940	0.52	1.00	2.10	17.0	15.0	288.9	2.0	0	0.00	64.	1001.	2	NAD-SFC	NoSubs
11	6	4	155	1	-15.1	0.190	-9.000	-9.000	-999.	199.	40.6	0.2470	0.52	1.00	2.10	59.0	15.0	288.9	2.0	0	0.00	65.	1001.	3	NAD-SFC	NoSubs
11	6	4	155	2	-28.7	0.276	-9.000	-9.000	-999.	347.	65.0	0.2090	0.52	1.00	3.10	79.0	15.0	288.5	2.0	0	0.00	68.	1001.	3	NAD-SFC	NoSubs
11	6	4	155	3	-13.8	0.182	-9.000	-9.000	-999.	190.	38.9	0.2090	0.52	1.00	2.10	66.0	15.0	288.2	2.0	0	0.00	70.	1002.	4	NAD-SFC	NoSubs
11	6	4	155	4	-6.8	0.134	-9.000	-9.000	-999.	118.	31.5	0.2470	0.52	1.00	1.50	47.0	15.0	287.8	2.0	0	0.25	75.	1002.	7	NAD-SFC	NoSubs
11	6	4	155	5	-5.6	0.136	-9.000	-9.000	-999.	120.	39.8	0.2470	0.52	1.00	1.50	50.0	15.0	287.1	2.0	0	0.76	81.	1003.	10	NAD-SFC	NoSubs
11	6	4	155	6	-6.2	0.197	-9.000	-9.000	-999.	210.	111.7	0.2470	0.52	0.45	2.10	59.0	15.0	286.8	2.0	0	1.02	86.	1004.	10	NAD-SFC	NoSubs
11	6	4	155	7	7.3	0.162	0.247	0.005	74.	156.	-52.3	0.2090	0.52	0.27	1.50	66.0	15.0	286.5	2.0	0	1.02	89.	1004.	10	NAD-SFC	NoSubs
11	6	4	155	8	18.6	0.175	0.457	0.005	184.	176.	-25.8	0.2130	0.52	0.22	1.50	110.0	15.0	286.9	2.0	0	1.02	90.	1005.	10	NAD-SFC	NoSubs
11	6	4	155	9	99.5	0.299	1.074	0.005	446.	393.	-24.1	0.1970	0.52	0.20	2.60	127.0	15.0	287.8	2.0	0	0.76	88.	1005.	7	NAD-SFC	NoSubs
11	6	4	155	10	147.0	0.395	1.474	0.005	782.	595.	-37.5	0.1970	0.52	0.19	3.60	126.0	15.0	288.9	2.0	0	0.51	84.	1005.	5	NAD-SFC	NoSubs
11	6	4	155	11	166.7	0.405	1.649	0.006	966.	619.	-35.8	0.2130	0.52	0.19	3.60	119.0	15.0	290.0	2.0	0	0.00	78.	1005.	5	NAD-SFC	NoSubs
11	6	4	155	12	176.1	0.364	1.751	0.006	1095.	528.	-24.5	0.2130	0.52	0.19	3.10	119.0	15.0	291.1	2.0	0	0.00	72.	1005.	5	NAD-SFC	NoSubs
11	6	4	155	13	175.7	0.218	1.808	0.006	1209.	259.	-5.3	0.1970	0.52	0.19	1.50	140.0	15.0	292.0	2.0	0	0.00	68.	1005.	5	NAD-SFC	NoSubs
11	6	4	155	14	165.3	0.166	1.819	0.006	1307.	163.	-2.5	0.1900	0.52	0.19	1.00	185.0	15.0	292.6	2.0	0	0.00	63.	1005.	5	NAD-SFC	NoSubs
11	6	4	155	15	144.7	0.106	1.776	0.006	1390.	83.	-1.0	0.1750	0.52	0.19	0.50	242.0	15.0	293.5	2.0	0	0.00	58.	1005.	5	NAD-SFC	NoSubs
11	6	4	155	16	115.0	0.103	1.670	0.006	1452.	79.	-1.0	0.1750	0.52	0.20	0.50	249.0	15.0	293.8	2.0	0	0.00	56.	1004.	5	NAD-SFC	NoSubs
11	6	4	155	17	73.6	0.162	1.452	0.006	1491.	157.	-5.2	0.2720	0.52	0.22	1.00	312.0	15.0	294.0	2.0	0	0.00	57.	1004.	6	NAD-SFC	NoSubs
11	6	4	155	18	30.8	0.196	1.090	0.006	1505.	209.	-22.0	0.2930	0.52	0.29	1.50	333.0	15.0	293.9	2.0	0	0.00	58.	1005.	7	NAD-SFC	NoSubs
11	6	4	155	19	-2.9	0.144	-9.000	-9.000	-999.	132.	93.0	0.2720	0.52	0.50	1.50	317.0	15.0	293.4	2.0	0	0.00	61.	1005.	7	NAD-SFC	NoSubs
11	6	4	155	20	-14.2	0.197	-9.000	-9.000	-999.	211.	48.8	0.2720	0.52	1.00	2.10	300.0	15.0	292.9	2.0	0	0.00	63.	1005.	7	NAD-SFC	NoSubs
11	6	4	155	21	-19.0	0.233	-9.000	-9.000	-999.	269.	59.3	0.2160	0.52	1.00	2.60	299.0	15.0	292.1	2.0	0	0.00	65.	1006.	7	NAD-SFC	NoSubs
11	6	4	155	22	-20.4	0.248	-9.000	-9.000	-999.	296.	67.2	0.2720	0.52	1.00	2.60	315.0	15.0	291.1	2.0	0	0.00	70.	1006.	7	NAD-SFC	NoSubs
11	6	4	155	23	-22.1	0.247	-9.000	-9.000	-999.	295.	61.3	0.2720	0.52	1.00	2.60	322.0	15.0	290.1	2.0	0	0.00	75.	1006.	6	NAD-SFC	NoSubs
11	6	4	155	24	-14.8	0.202	-9.000	-9.000	-999.	218.	49.9	0.2930	0.52	1.00	2.10	345.0	15.0	289.2	2.0	0	0.00	80.	1006.	7	NAD-SFC	NoSubs
11	6	5	156	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	288.5	2.0	0	0.00	84.	1006.	8	NAD-SFC	NoSubs
11	6	5	156	2	-14.1	0.256	-9.000	-9.000	-999.	311.	107.2	0.2940	0.52	1.00	2.60	9.0	15.0	288.1	2.0	0	0.00	85.	1007.	10	NAD-SFC	NoSubs
11	6	5	156	3	-19.8	0.359	-9.000	-9.000	-999.	517.	210.5	0.2940	0.52	1.00	3.60	18.0	15.0	287.4	2.0	0	0.00	88.	1007.	10	NAD-SFC	NoSubs
11	6	5	156	4	-19.9	0.359	-9.000	-9.000	-999.	517.	209.9	0.2940	0.52	1.00	3.60	17.0	15.0	286.8	2.0	0	0.00	91.	1007.	10	NAD-SFC	NoSubs
11	6	5	156	5	-25.6	0.340	-9.000	-9.000	-999.	476.	137.6	0.2470	0.52	1.00	3.60	34.0	15.0	286.2	2.0	0	0.00	94.	1008.	8	NAD-SFC	NoSubs
11	6	5	156	6	-0.6	0.270	-9.000	-9.000	-999.	339.	3067.1	0.2940	0.52	0.45	2.60	18.0	15.0	286.5	2.0	0	0.00	93.	1008.	6	NAD-SFC	NoSubs
11	6	5	156	7	40.9	0.258	0.657	0.005	249.	314.	-37.6	0.2940	0.52	0.27	2.10	15.0	15.0	287.8	2.0	0	0.00	80.	1008.	4	NAD-SFC	NoSubs
11	6	5	156	8	85.2	0.168	1.011	0.005	435.	168.	-5.0	0.2940	0.52	0.21	1.00	12.0	15.0	289.2	2.0	0	0.00	72.	1008.	3	NAD-SFC	NoSubs
11	6	5	156	9	124.2	0.116	1.271	0.005	595.	95.	-1.1	0.2930	0.52	0.20	0.50	358.0	15.0	291.0	2.0	0	0.00	63.	1007.	3	NAD-SFC	NoSubs
11	6	5	156	10	155.1	-9.000	-9.000	-9.000	838.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	292.8	2.0	0	0.00	52.	1007.	3	NAD-SFC	NoSubs
11	6	5	156	11	176.3	-9.000	-9.000	-9.000	1166.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.4	2.0	0	0.00	42.	1006.	3	NAD-SFC	NoSubs
11	6	5	156	12	186.4	-9.000	-9.000	-9.000	1394.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.8	2.0	0	0.00	35.	1005.	3	NAD-SFC	NoSubs
11	6	5	156	13	186.6	-9.000	-9.000	-9.000	1503.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.2	2.0	0	0.00	29.	1003.	2	NAD-SFC	NoSubs
11	6	5	156	14	175.7	-9.000	-9.000	-9.000	1598.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.2	2.0	0	0.00	24.	1003.	2	NAD-SFC	NoSubs
11	6	5	156	15	153.7	0.214	1.931	0.006	1678.	237.	-5.7	0.1950	0.52	0.19	1.50	224.0	15.0	299.1	2.0	0	0.00	21.	1002.	2	NAD-SFC	NoSubs
11	6	5	156	16	121.8	0.514	1.808	0.007	1737.	884.	-99.5	0.1950	0.52	0.20	5.10	235.0	15.0	298.9	2.0	0	0.00	22.	1002.	2	NAD-SFC	NoSubs
11	6	5	156	17	81.2	0.461	1.590	0.007	1769.	755.	-107.9	0.1950	0.52	0.22	4.60	231.0	15.0	297.2	2.0	0	0.00	36.	1002.	2	NAD-SFC	NoSubs
11	6	5	156	18	35.2	0.351	1.205	0.007	1778.	509.	-110.1	0.1750	0.52	0.29	3.60	255.0	15.0	295.2	2.0	0	0.00	47.	1002.	2	NAD-SFC	NoSubs
11	6	5	156	19	-20.5	0.404	-9.000	-9.000	-999.	616.	287.8	0.1750	0.52	0.50	4.60	259.0	15.0	292.8	2.0	0	0.00	55.	1003.	2	NAD-SFC	NoSubs
11	6	5	156	20	-37.6	0.353	-9.000	-9.000	-999.	505.	104.4	0.1750	0.52	1.00	4.10	269.0	15.0	290.2	2.0	0	0.00	64.	1003.	2	NAD-SFC	NoSubs
11	6	5	156	21	-28.2	0.263	-9.000	-9.000	-999.	328.	57.8	0.1750	0.52	1.00	3.10	269.0	15.0	288.9	2.0	0	0.00	71.	1004.	2	NAD-SFC	NoSubs
11	6	5	156	22	-8.0	0.137	-9.000	-9.000	-999.	132.	28.6	0.2720	0.52	1.00	1.50	309.0	15.0	288.2	2.0	0	0.00	72.	1005.	2	NAD-SFC	NoSubs
11	6	5	156	23	-3.8	0.099	-9.000	-9.000	-999.	75.	22.9	0.2470	0.52	1.00	1.00	33.0	15.0	287.8	2.0	0	0.00	74.	1005.	3	NAD-SFC	NoSubs

11	6	5	156	24	-16.3	0.200	-9.000	-9.000	-999.	215.	44.4	0.2940	0.52	1.00	2.10	20.0	15.0	287.2	2.0	0	0.00	76.	1006.	4	NAD-SFC	NoSubs
11	6	6	157	1	-3.8	0.100	-9.000	-9.000	-999.	81.	23.8	0.2940	0.52	1.00	1.00	15.0	15.0	286.8	2.0	0	0.00	78.	1006.	5	NAD-SFC	NoSubs
11	6	6	157	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	286.2	2.0	0	0.00	81.	1006.	10	NAD-SFC	NoSubs
11	6	6	157	3	-0.8	0.061	-9.000	-9.000	-999.	36.	25.4	0.1900	0.52	1.00	0.50	189.0	15.0	285.9	2.0	0	0.00	83.	1006.	10	NAD-SFC	NoSubs
11	6	6	157	4	-2.2	0.084	-9.000	-9.000	-999.	58.	23.9	0.1900	0.52	1.00	1.00	190.0	15.0	285.6	2.0	0	0.25	87.	1006.	10	NAD-SFC	NoSubs
11	6	6	157	5	-6.0	0.123	-9.000	-9.000	-999.	104.	28.1	0.1810	0.52	1.00	1.50	170.0	15.0	285.6	2.0	0	0.51	89.	1006.	7	NAD-SFC	NoSubs
11	6	6	157	6	-0.3	0.191	-9.000	-9.000	-999.	201.	2039.9	0.1810	0.52	0.45	2.10	175.0	15.0	285.8	2.0	0	0.25	89.	1007.	7	NAD-SFC	NoSubs
11	6	6	157	7	28.1	0.228	0.588	0.005	259.	261.	-37.8	0.1900	0.52	0.27	2.10	196.0	15.0	286.5	2.0	0	0.25	82.	1008.	8	NAD-SFC	NoSubs
11	6	6	157	8	69.3	0.098	0.952	0.005	447.	86.	-1.2	0.1950	0.52	0.21	0.50	235.0	15.0	287.8	2.0	0	0.00	75.	1008.	7	NAD-SFC	NoSubs
11	6	6	157	9	28.8	-9.000	-9.000	-9.000	659.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	288.8	2.0	0	0.00	70.	1008.	10	NAD-SFC	NoSubs
11	6	6	157	10	36.8	-9.000	-9.000	-9.000	710.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	289.8	2.0	0	0.00	64.	1008.	10	NAD-SFC	NoSubs
11	6	6	157	11	42.4	-9.000	-9.000	-9.000	764.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	291.0	2.0	0	0.00	58.	1007.	10	NAD-SFC	NoSubs
11	6	6	157	12	165.7	-9.000	-9.000	-9.000	945.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	292.2	2.0	0	0.00	52.	1007.	6	NAD-SFC	NoSubs
11	6	6	157	13	176.3	0.120	1.756	0.005	1103.	100.	-1.0	0.2720	0.52	0.19	0.50	301.0	15.0	293.2	2.0	0	0.00	48.	1006.	5	NAD-SFC	NoSubs
11	6	6	157	14	171.8	0.233	1.808	0.005	1237.	270.	-6.6	0.2720	0.52	0.19	1.50	316.0	15.0	294.2	2.0	0	0.00	46.	1006.	4	NAD-SFC	NoSubs
11	6	6	157	15	150.4	0.333	1.779	0.005	1345.	461.	-22.0	0.2720	0.52	0.19	2.60	326.0	15.0	294.8	2.0	0	0.00	45.	1005.	4	NAD-SFC	NoSubs
11	6	6	157	16	119.6	0.423	1.686	0.005	1439.	660.	-56.7	0.2930	0.52	0.20	3.60	338.0	15.0	295.0	2.0	0	0.00	46.	1005.	4	NAD-SFC	NoSubs
11	6	6	157	17	81.0	0.458	1.501	0.005	1499.	743.	-106.1	0.2930	0.52	0.22	4.10	350.0	15.0	294.9	2.0	0	0.00	48.	1005.	4	NAD-SFC	NoSubs
11	6	6	157	18	37.0	0.301	1.163	0.005	1525.	415.	-66.1	0.2930	0.52	0.29	2.60	346.0	15.0	294.5	2.0	0	0.00	57.	1005.	4	NAD-SFC	NoSubs
11	6	6	157	19	-12.0	0.363	-9.000	-9.000	-999.	525.	356.0	0.2930	0.52	0.49	3.60	353.0	15.0	293.4	2.0	0	0.00	63.	1005.	4	NAD-SFC	NoSubs
11	6	6	157	20	-40.6	0.406	-9.000	-9.000	-999.	621.	148.1	0.2930	0.52	1.00	4.10	348.0	15.0	291.4	2.0	0	0.00	73.	1005.	4	NAD-SFC	NoSubs
11	6	6	157	21	-35.6	0.355	-9.000	-9.000	-999.	510.	112.7	0.2940	0.52	1.00	3.60	5.0	15.0	290.1	2.0	0	0.00	79.	1005.	4	NAD-SFC	NoSubs
11	6	6	157	22	-30.5	0.304	-9.000	-9.000	-999.	403.	82.2	0.2940	0.52	1.00	3.10	14.0	15.0	289.4	2.0	0	0.00	81.	1005.	4	NAD-SFC	NoSubs
11	6	6	157	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	289.0	2.0	0	0.00	82.	1005.	4	NAD-SFC	NoSubs
11	6	6	157	24	-3.8	0.099	-9.000	-9.000	-999.	75.	23.3	0.2720	0.52	1.00	1.00	329.0	15.0	288.4	2.0	0	0.00	84.	1004.	4	NAD-SFC	NoSubs
11	6	7	158	1	-1.5	0.082	-9.000	-9.000	-999.	56.	31.3	0.2720	0.52	1.00	0.50	309.0	15.0	287.9	2.0	0	0.00	86.	1004.	4	NAD-SFC	NoSubs
11	6	7	158	2	-1.4	0.078	-9.000	-9.000	-999.	52.	30.4	0.2160	0.52	1.00	0.50	288.0	15.0	287.2	2.0	0	0.00	88.	1004.	5	NAD-SFC	NoSubs
11	6	7	158	3	-6.4	0.129	-9.000	-9.000	-999.	111.	29.9	0.2160	0.52	1.00	1.50	279.0	15.0	287.0	2.0	0	0.00	90.	1004.	7	NAD-SFC	NoSubs
11	6	7	158	4	-5.3	0.131	-9.000	-9.000	-999.	113.	37.8	0.2160	0.52	1.00	1.50	293.0	15.0	287.2	2.0	0	0.00	89.	1005.	10	NAD-SFC	NoSubs
11	6	7	158	5	-11.0	0.200	-9.000	-9.000	-999.	215.	65.2	0.2720	0.52	1.00	2.10	305.0	15.0	287.2	2.0	0	0.00	87.	1005.	10	NAD-SFC	NoSubs
11	6	7	158	6	-6.1	0.203	-9.000	-9.000	-999.	220.	122.6	0.2720	0.52	0.45	2.10	314.0	15.0	287.2	2.0	0	0.00	86.	1005.	10	NAD-SFC	NoSubs
11	6	7	158	7	7.5	0.226	0.245	0.005	70.	258.	-137.7	0.2720	0.52	0.27	2.10	319.0	15.0	287.4	2.0	0	0.00	84.	1005.	10	NAD-SFC	NoSubs
11	6	7	158	8	69.5	0.213	0.894	0.005	369.	236.	-12.5	0.2930	0.52	0.21	1.50	338.0	15.0	288.2	2.0	0	0.00	75.	1005.	7	NAD-SFC	NoSubs
11	6	7	158	9	122.7	-9.000	-9.000	-9.000	788.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	290.2	2.0	0	0.00	66.	1005.	4	NAD-SFC	NoSubs
11	6	7	158	10	152.8	-9.000	-9.000	-9.000	950.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	291.5	2.0	0	0.00	61.	1004.	4	NAD-SFC	NoSubs
11	6	7	158	11	173.5	-9.000	-9.000	-9.000	1078.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	292.9	2.0	0	0.00	57.	1004.	4	NAD-SFC	NoSubs
11	6	7	158	12	183.4	-9.000	-9.000	-9.000	1195.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.2	2.0	0	0.00	52.	1003.	4	NAD-SFC	NoSubs
11	6	7	158	13	185.9	-9.000	-9.000	-9.000	1304.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.5	2.0	0	0.00	48.	1002.	3	NAD-SFC	NoSubs
11	6	7	158	14	175.2	-9.000	-9.000	-9.000	1371.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.5	2.0	0	0.00	45.	1001.	3	NAD-SFC	NoSubs
11	6	7	158	15	153.4	-9.000	-9.000	-9.000	1413.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.1	2.0	0	0.00	43.	1000.	3	NAD-SFC	NoSubs
11	6	7	158	16	122.1	0.286	1.703	0.010	1445.	367.	-17.0	0.2940	0.52	0.20	2.10	13.0	15.0	297.5	2.0	0	0.00	42.	1000.	3	NAD-SFC	NoSubs
11	6	7	158	17	82.7	0.321	1.503	0.010	1466.	436.	-35.6	0.2940	0.52	0.22	2.60	12.0	15.0	297.5	2.0	0	0.00	41.	1000.	3	NAD-SFC	NoSubs
11	6	7	158	18	37.8	0.302	1.160	0.010	1475.	398.	-64.9	0.2940	0.52	0.29	2.60	19.0	15.0	297.1	2.0	0	0.00	49.	1000.	3	NAD-SFC	NoSubs
11	6	7	158	19	-10.3	0.311	-9.000	-9.000	-999.	416.	261.4	0.2940	0.52	0.49	3.10	23.0	15.0	296.5	2.0	0	0.00	50.	1000.	3	NAD-SFC	NoSubs
11	6	7	158	20	-8.1	0.140	-9.000	-9.000	-999.	151.	30.1	0.2940	0.52	1.00	1.50	6.0	15.0	295.4	2.0	0	0.00	52.	1001.	3	NAD-SFC	NoSubs
11	6	7	158	21	-6.5	0.122	-9.000	-9.000	-999.	103.	25.2	0.1750	0.52	1.00	1.50	262.0	15.0	294.2	2.0	0	0.00	57.	1001.	3	NAD-SFC	NoSubs
11	6	7	158	22	-41.1	0.398	-9.000	-9.000	-999.	602.	137.0	0.1750	0.52	1.00	4.60	248.0	15.0	291.6	2.0	0	0.00	68.	1001.	3	NAD-SFC	NoSubs
11	6	7	158	23	-36.7	0.353	-9.000	-9.000	-999.	505.	107.2	0.1750	0.52	1.00	4.10	261.0	15.0	289.9	2.0	0	0.00	75.	1002.	3	NAD-SFC	NoSubs
11	6	7	158	24	-33.9	0.325	-9.000	-9.000	-999.	446.	90.7	0.2160	0.52	1.00	3.60	275.0	15.0	288.9	2.0	0	0.00	80.	1002.	3	NAD-SFC	NoSubs
11	6	8	159	1	-31.0	0.297	-9.000	-9.000	-999.	388.	75.2	0.2720	0.52	1.00	3.10	300.0	15.0	288.2	2.0	0	0.00	81.	1002.	3	NAD-SFC	NoSubs
11	6	8	159	2	-25.2	0.252	-9.000	-9.000	-999.	304.	56.8	0.2930	0.52	1.00	2.60	335.0	15.0	288.0	2.0	0	0.00	82.	1002.	4	NAD-SFC	NoSubs
11	6	8	159	3	-8.1	0.140	-9.000	-9.000	-999.	132.	30.3	0.2930	0.52	1.00	1.50	333.0	15.0	287.6	2.0	0	0.00	83.	1002.	4	NAD-SFC	NoSubs
11	6	8	159	4	-1.4	0.079	-9.000	-9.000	-999.	55.	30.9	0.2160	0.52	1.00	0.50	286.0	15.0	287.2	2.0	0	0.00	84.	1002.	4	NAD-SFC	NoSubs
11	6	8	159	5	-1.4	0.079	-9.000	-9.000	-999.	54.	30.9	0.2160	0.52	1.00	0.50	288.0	15.0	286.8	2.0	0	0.00	85.	1003.	4	NAD-SFC	NoSubs
11	6	8	159	6	19.7	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.45	0.00	0.0	15.0	286.6	2.0	0	0.00	86.	1003.	3	NAD-SFC	NoSubs
11	6	8	159	7	40.9	-9.000	-9.000	-9.000	270.	-999.	-99999.0	0.2235	0.52	0.27	0.00	0.0	15.0	288.4	2.0	0	0.00	75.	1004.	3	NAD-SFC	NoSubs
11	6	8	159	8	85.6	-9.000	-9.000	-9.000	407.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	289.9	2.0	0	0.00	69.	1004.	3	NAD-SFC	NoSubs
11	6	8	159	9	124.4	-9.000	-9.000	-9.000	580.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	291.4	2.0	0	0.00	64.	1004.	3	NAD-SFC	NoSubs
11	6	8	159	10	155.4	-9.000	-9.000	-9.000	741.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	293.2	2.0	0	0.00	57.	1003.	3	NAD-SFC	NoSubs
11	6	8	159	11	176.6	-9.000	-9.000	-9.000	887.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.8	2.0	0	0.00	52.	1003.	3	NAD-SFC	NoSubs
11	6	8	159	12	186.9	-9.000	-9.000	-9.000	1043.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.2	2.0	0	0.00	48.	1002.	3	NAD-SFC	NoSubs
11	6	8	159	13	186.8	-9.000	-9.000	-9.000	1212.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.5	2.0	0	0.00	44.	1001.	3	NAD-SFC	NoSubs
11	6	8	159	14	176.1	0.122	1.878	0.007	1346.	102.	-1.0	0.2930	0.52	0.19	0.50	358.0	15.0	298.4	2.0	0	0.00	42.	1001.	3	NAD-SFC	NoSubs
11	6	8	159	15	154.4	0.234	1.826	0.007	1411.	271.	-7.4	0.2940	0.52	0.19	1.50	13.0	15.0	299.1	2.0	0	0.00	41.	1001.	3	NAD-SFC	NoSubs
11	6	8	159	16	123.1	0.286	1.714	0.007	1460.	366.	-16.9	0.2940	0.52	0.20	2.10	9.0	15.0	299.4	2.0	0	0.00	41.	1000.	3	NAD-SFC	NoSubs
11	6	8	159	17	83.8	0.321	1.519	0.007	1492.	437.	-35.2	0.2940	0.52	0.22	2.60	14.0	15.0	299.4	2.0	0	0.00	42.	1000.	3	NAD-SFC	NoSubs
11	6	8	159	18	38.9	0.257	1.180	0.007	1506.	314.	-38.9	0.2940	0.52	0.28	2.10	24.0	15.0	299.0	2.0	0	0.00	51.	1000.	3	NAD-SFC	NoSubs
11	6	8	159	19	-6.9	0.260	-9.000	-9.000	-999.	318.	227.5	0.2940	0.52	0.49	2.60	13.0	15.0	298.5	2.0	0	0.00	52.	1001.	3	NAD-SFC	NoSubs
11	6	8	159	20	-37.8	0.373	-9.000	-9.000	-999.	546.	122.4	0.2160	0.52	1.00	4.10	278.0	15.0	296.9	2.0	0	0.00	57.	1001.	3	NAD-SFC	NoSubs
11	6	8	159	21	-56.0	0.543	-9.000	-9.000	-999.	960.	255.7	0.1750	0.52	1.00	6.20	269.0	15.0	292.2	2.0	0	0.00	72.	1002.	3	NAD-SFC	NoSubs
11	6	8	159	22	-48.5	0.468	-9.000	-9.000	-999.	773.	188.5	0.2160	0.52	1.00	5.10	270.0	15.0	290.6	2.0	0	0.00	76.	1002.	3	NAD-SFC	NoSubs
11	6	8	159	23	-36.7	0.353	-9.000	-9.000	-999.	513.	107.0	0.1750	0.52	1.00	4.10	259.0	15.0	289.6	2.0	0	0.00	79.	1002.	3	NAD-SFC	NoSubs
11	6	8	159	24	-22.2	0.231	-9.000	-9.000	-999.	276.	49.5	0.2160	0.52	1.00	2.60	277.0	15.0	289.1	2.0	0	0.00	81.	1002.	3	NAD-SFC	NoSubs
11	6	9	160	1	-7.8	0.137	-9.000	-9.000	-999.	126.	29.5	0.2720	0.52	1.00	1.50	300.0	15.0	288.8	2.0	0	0.00	82.	1003.	4	NAD-SFC	NoSubs
11	6	9	160	2	-1.5	0.081	-9.000	-9.000	-999.	56.	31.1	0.2470	0.52	1.00	0.50	30.0	15.0	288.4	2.0	0	0.00	83.	1003.	4	NAD-SFC	NoSubs
11	6	9	160	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	288.2	2.0	0	0.00	83.	1003.	4	NAD-SFC	NoSubs
11	6	9	160	4	-1.5	0.082	-9.000	-9.000	-999.	56.	31.3	0.2720	0.52	1.00	0.50	307.0	15.0	287.9	2.0	0	0.00	84.	1003.	4	NAD-SFC	NoSubs

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11  6  9 160  5   -1.6  0.083 -9.000 -9.000 -999.   57.     31.7  0.2720  0.52  1.00  0.50  300.0  15.0  287.6  2.0   0  0.00   85.  1004.    3 NAD-SFC NoSubs
11  6  9 160  6   19.8 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.45  0.00    0.0  15.0  287.6  2.0   0  0.00   86.  1004.    3 NAD-SFC NoSubs
11  6  9 160  7   41.2  0.100  0.658  0.008  247.   76.     -2.2  0.2930  0.52  0.27  0.50  345.0  15.0  289.5  2.0   0  0.00   74.  1004.    3 NAD-SFC NoSubs
11  6  9 160  8   85.9 -9.000 -9.000 -9.000  381. -999. -99999.0  0.2235  0.52  0.21  0.00    0.0  15.0  290.9  2.0   0  0.00   68.  1004.    3 NAD-SFC NoSubs
11  6  9 160  9  124.8 -9.000 -9.000 -9.000  525. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  292.5  2.0   0  0.00   62.  1004.    3 NAD-SFC NoSubs
11  6  9 160 10  155.7 -9.000 -9.000 -9.000  666. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  294.2  2.0   0  0.00   56.  1003.    3 NAD-SFC NoSubs
11  6  9 160 11  177.1 -9.000 -9.000 -9.000  826. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  296.0  2.0   0  0.00   51.  1003.    3 NAD-SFC NoSubs
11  6  9 160 12  187.7 -9.000 -9.000 -9.000  968. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  297.4  2.0   0  0.00   48.  1002.    2 NAD-SFC NoSubs
11  6  9 160 13  187.6 -9.000 -9.000 -9.000 1112. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  298.6  2.0   0  0.00   45.  1001.    2 NAD-SFC NoSubs
11  6  9 160 14  176.9  0.122  1.827  0.011 1233.  102.     -1.0  0.2930  0.52  0.19  0.50  344.0  15.0  299.6  2.0   0  0.00   43.  1001.    2 NAD-SFC NoSubs
11  6  9 160 15  155.1 -9.000 -9.000 -9.000 1331. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  300.4  2.0   0  0.00   41.  1000.    2 NAD-SFC NoSubs
11  6  9 160 16  124.2  0.228  1.681  0.011 1368.  261.     -8.5  0.2940  0.52  0.20  1.50    1.0  15.0  301.2  2.0   0  0.00   43.  1000.    3 NAD-SFC NoSubs
11  6  9 160 17   84.9  0.321  1.489  0.011 1389.  437.    -34.9  0.2940  0.52  0.22  2.60    9.0  15.0  301.2  2.0   0  0.00   44.  1000.    3 NAD-SFC NoSubs
11  6  9 160 18   40.1  0.258  1.163  0.011 1398.  316.    -38.0  0.2940  0.52  0.28  2.10   13.0  15.0  301.0  2.0   0  0.00   52.  1000.    3 NAD-SFC NoSubs
11  6  9 160 19   -6.2  0.314 -9.000 -9.000 -999.  423.    443.7  0.2940  0.52  0.49  3.10   19.0  15.0  300.2  2.0   0  0.00   54.  1000.    3 NAD-SFC NoSubs
11  6  9 160 20  -25.1  0.252 -9.000 -9.000 -999.  305.     56.8  0.2930  0.52  1.00  2.60  334.0  15.0  299.2  2.0   0  0.00   57.  1000.    3 NAD-SFC NoSubs
11  6  9 160 21  -50.6  0.498 -9.000 -9.000 -999.  842.    217.2  0.1750  0.52  1.00  5.70  266.0  15.0  295.8  2.0   0  0.00   66.  1001.    3 NAD-SFC NoSubs
11  6  9 160 22  -45.5  0.443 -9.000 -9.000 -999.  711.    170.6  0.1750  0.52  1.00  5.10  268.0  15.0  292.9  2.0   0  0.00   70.  1001.    3 NAD-SFC NoSubs
11  6  9 160 23  -41.0  0.398 -9.000 -9.000 -999.  604.    137.0  0.1750  0.52  1.00  4.60  264.0  15.0  291.8  2.0   0  0.00   73.  1001.    3 NAD-SFC NoSubs
11  6  9 160 24  -31.8  0.308 -9.000 -9.000 -999.  416.     82.1  0.1750  0.52  1.00  3.60  267.0  15.0  291.2  2.0   0  0.00   74.  1001.    3 NAD-SFC NoSubs
11  6 10 161  1  -14.1  0.183 -9.000 -9.000 -999.  198.     38.7  0.2160  0.52  1.00  2.10  276.0  15.0  291.2  2.0   0  0.00   73.  1001.    3 NAD-SFC NoSubs
11  6 10 161  2   -4.0  0.102 -9.000 -9.000 -999.   81.     23.7  0.2930  0.52  1.00  1.00  330.0  15.0  291.2  2.0   0  0.00   73.  1002.    3 NAD-SFC NoSubs
11  6 10 161  3   -4.0  0.102 -9.000 -9.000 -999.   78.     23.7  0.2930  0.52  1.00  1.00  340.0  15.0  290.9  2.0   0  0.00   75.  1002.    3 NAD-SFC NoSubs
11  6 10 161  4   -1.6  0.083 -9.000 -9.000 -999.   58.     31.8  0.2930  0.52  1.00  0.50  357.0  15.0  290.4  2.0   0  0.00   76.  1002.    3 NAD-SFC NoSubs
11  6 10 161  5   -1.6  0.083 -9.000 -9.000 -999.   58.     31.8  0.2930  0.52  1.00  0.50  340.0  15.0  289.9  2.0   0  0.00   78.  1003.    3 NAD-SFC NoSubs
11  6 10 161  6   -0.3  0.047 -9.000 -9.000 -999.   24.     26.6  0.2930  0.52  0.45  0.50  331.0  15.0  289.8  2.0   0  0.00   78.  1004.    3 NAD-SFC NoSubs
11  6 10 161  7   41.7  0.203  0.653  0.009  239.  219.    -17.8  0.2930  0.52  0.27  1.50  350.0  15.0  291.2  2.0   0  0.00   68.  1004.    3 NAD-SFC NoSubs
11  6 10 161  8   86.4 -9.000 -9.000 -9.000  333. -999. -99999.0  0.2235  0.52  0.21  0.00    0.0  15.0  292.8  2.0   0  0.00   62.  1004.    3 NAD-SFC NoSubs
11  6 10 161  9  125.4 -9.000 -9.000 -9.000  473. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  294.2  2.0   0  0.00   56.  1003.    3 NAD-SFC NoSubs
11  6 10 161 10  156.4 -9.000 -9.000 -9.000  643. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  296.0  2.0   0  0.00   50.  1003.    2 NAD-SFC NoSubs
11  6 10 161 11  177.9 -9.000 -9.000 -9.000  840. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  297.5  2.0   0  0.00   44.  1002.    2 NAD-SFC NoSubs
11  6 10 161 12  188.3 -9.000 -9.000 -9.000 1020. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  298.8  2.0   0  0.00   40.  1001.    2 NAD-SFC NoSubs
11  6 10 161 13  188.3  0.121  1.848  0.005 1200.  101.     -1.0  0.2720  0.52  0.19  0.50  312.0  15.0  299.9  2.0   0  0.00   37.  1001.    2 NAD-SFC NoSubs
11  6 10 161 14  177.5  0.238  1.884  0.007 1345.  278.     -6.8  0.2930  0.52  0.19  1.50  337.0  15.0  300.8  2.0   0  0.00   35.  1000.    2 NAD-SFC NoSubs
11  6 10 161 15  155.7  0.340  1.840  0.007 1428.  476.    -22.5  0.2940  0.52  0.19  2.60    1.0  15.0  301.2  2.0   0  0.00   34.   999.    2 NAD-SFC NoSubs
11  6 10 161 16  124.1 -9.000 -9.000 -9.000 1490. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  301.2  2.0   0  0.00   35.   999.    2 NAD-SFC NoSubs
11  6 10 161 17   84.3  0.413  1.535  0.008 1530.  637.    -74.5  0.2940  0.52  0.22  3.60   11.0  15.0  300.8  2.0   0  0.00   40.   999.    2 NAD-SFC NoSubs
11  6 10 161 18   40.0 -9.000 -9.000 -9.000 1547. -999. -99999.0  0.2235  0.52  0.28  0.00    0.0  15.0  300.0  2.0   0  0.00   49.   999.    3 NAD-SFC NoSubs
11  6 10 161 19   -7.8  0.366 -9.000 -9.000 -999.  532.    563.6  0.2930  0.52  0.48  3.60  346.0  15.0  299.0  2.0   0  0.00   52.  1000.    3 NAD-SFC NoSubs
11  6 10 161 20  -40.1  0.397 -9.000 -9.000 -999.  601.    139.4  0.2720  0.52  1.00  4.10  315.0  15.0  297.6  2.0   0  0.00   56.  1000.    3 NAD-SFC NoSubs
11  6 10 161 21  -40.6  0.398 -9.000 -9.000 -999.  603.    138.6  0.1750  0.52  1.00  4.60  267.0  15.0  294.9  2.0   0  0.00   68.  1001.    3 NAD-SFC NoSubs
11  6 10 161 22  -48.1  0.468 -9.000 -9.000 -999.  767.    189.9  0.2160  0.52  1.00  5.10  280.0  15.0  292.6  2.0   0  0.00   74.  1001.    3 NAD-SFC NoSubs
11  6 10 161 23  -38.5  0.373 -9.000 -9.000 -999.  553.    119.9  0.2160  0.52  1.00  4.10  282.0  15.0  291.2  2.0   0  0.00   76.  1002.    3 NAD-SFC NoSubs
11  6 10 161 24  -28.9  0.278 -9.000 -9.000 -999.  357.     66.6  0.2160  0.52  1.00  3.10  290.0  15.0  290.2  2.0   0  0.00   77.  1002.    3 NAD-SFC NoSubs
11  6 11 162  1  -14.0  0.183 -9.000 -9.000 -999.  193.     39.5  0.2160  0.52  1.00  2.10  294.0  15.0  289.8  2.0   0  0.00   77.  1002.    4 NAD-SFC NoSubs
11  6 11 162  2   -7.0  0.129 -9.000 -9.000 -999.  111.     27.2  0.2160  0.52  1.00  1.50  272.0  15.0  289.2  2.0   0  0.00   77.  1002.    4 NAD-SFC NoSubs
11  6 11 162  3  -12.5  0.174 -9.000 -9.000 -999.  174.     37.5  0.1750  0.52  1.00  2.10  261.0  15.0  288.8  2.0   0  0.00   78.  1002.    5 NAD-SFC NoSubs
11  6 11 162  4  -25.3  0.264 -9.000 -9.000 -999.  325.     64.9  0.1750  0.52  1.00  3.10  266.0  15.0  287.8  2.0   0  0.00   82.  1002.    5 NAD-SFC NoSubs
11  6 11 162  5  -19.5  0.219 -9.000 -9.000 -999.  246.     48.0  0.1750  0.52  1.00  2.60  267.0  15.0  287.1  2.0   0  0.00   83.  1002.    5 NAD-SFC NoSubs
11  6 11 162  6   -2.9  0.292 -9.000 -9.000 -999.  379.    758.3  0.2160  0.52  0.45  3.10  281.0  15.0  287.4  2.0   0  0.00   81.  1003.    4 NAD-SFC NoSubs
11  6 11 162  7   41.4  0.190  0.611  0.005  197.  203.    -14.7  0.2160  0.52  0.27  1.50  276.0  15.0  288.5  2.0   0  0.00   74.  1003.    4 NAD-SFC NoSubs
11  6 11 162  8   85.5 -9.000 -9.000 -9.000  465. -999. -99999.0  0.2235  0.52  0.21  0.00    0.0  15.0  289.8  2.0   0  0.00   69.  1003.    3 NAD-SFC NoSubs
11  6 11 162  9  124.4 -9.000 -9.000 -9.000  601. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  291.2  2.0   0  0.00   65.  1002.    3 NAD-SFC NoSubs
11  6 11 162 10  155.2 -9.000 -9.000 -9.000  736. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  292.8  2.0   0  0.00   60.  1002.    3 NAD-SFC NoSubs
11  6 11 162 11  176.5 -9.000 -9.000 -9.000  866. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  294.2  2.0   0  0.00   56.  1001.    3 NAD-SFC NoSubs
11  6 11 162 12  186.9 -9.000 -9.000 -9.000  986. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  295.8  2.0   0  0.00   52.  1000.    3 NAD-SFC NoSubs
11  6 11 162 13  186.9 -9.000 -9.000 -9.000 1096. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  297.0  2.0   0  0.00   48.   999.    3 NAD-SFC NoSubs
11  6 11 162 14  176.3  0.120  1.806  0.010 1191.  100.     -1.0  0.2720  0.52  0.19  0.50  312.0  15.0  298.0  2.0   0  0.00   45.   998.    3 NAD-SFC NoSubs
11  6 11 162 15  154.8  0.181  1.766  0.010 1268.  185.     -3.4  0.2930  0.52  0.19  1.00  338.0  15.0  298.8  2.0   0  0.00   43.   998.    3 NAD-SFC NoSubs
11  6 11 162 16  123.7  0.228  1.664  0.011 1328.  261.     -8.5  0.2930  0.52  0.20  1.50  340.0  15.0  299.1  2.0   0  0.00   42.   997.    3 NAD-SFC NoSubs
11  6 11 162 17   84.6  0.367  1.477  0.011 1356.  534.    -52.1  0.2930  0.52  0.22  3.10  342.0  15.0  299.1  2.0   0  0.00   44.   997.    3 NAD-SFC NoSubs
11  6 11 162 18   39.6  0.435  1.149  0.011 1365.  687.   -184.4  0.2720  0.52  0.28  4.10  302.0  15.0  297.2  2.0   0  0.00   58.   998.    4 NAD-SFC NoSubs
11  6 11 162 19   -1.1  0.441 -9.000 -9.000 -999.  702.   7007.1  0.2160  0.52  0.48  4.60  291.0  15.0  294.9  2.0   0  0.00   70.   998.    8 NAD-SFC NoSubs
11  6 11 162 20  -20.2  0.378 -9.000 -9.000 -999.  560.    237.4  0.2160  0.52  1.00  4.10  279.0  15.0  293.8  2.0   0  0.00   73.   999.   10 NAD-SFC NoSubs
11  6 11 162 21  -26.0  0.356 -9.000 -9.000 -999.  509.    154.1  0.1750  0.52  1.00  4.10  268.0  15.0  292.6  2.0   0  0.00   74.   999.    8 NAD-SFC NoSubs
11  6 11 162 22  -35.3  0.373 -9.000 -9.000 -999.  547.    131.2  0.2160  0.52  1.00  4.10  280.0  15.0  290.9  2.0   0  0.00   76.   999.    5 NAD-SFC NoSubs
11  6 11 162 23  -35.5  0.373 -9.000 -9.000 -999.  547.    130.5  0.2160  0.52  1.00  4.10  285.0  15.0  289.4  2.0   0  0.00   78.   999.    5 NAD-SFC NoSubs
11  6 11 162 24  -31.1  0.326 -9.000 -9.000 -999.  448.     99.2  0.2160  0.52  1.00  3.60  270.0  15.0  288.4  2.0   0  0.00   80.   999.    5 NAD-SFC NoSubs
11  6 12 163  1  -25.0  0.279 -9.000 -9.000 -999.  355.     77.5  0.2160  0.52  1.00  3.10  272.0  15.0  287.8  2.0   0  0.00   82.   999.    6 NAD-SFC NoSubs
11  6 12 163  2  -15.4  0.282 -9.000 -9.000 -999.  360.    129.6  0.2160  0.52  1.00  3.10  278.0  15.0  287.2  2.0   0  0.00   83.   999.   10 NAD-SFC NoSubs
11  6 12 163  3  -18.1  0.330 -9.000 -9.000 -999.  454.    176.9  0.2160  0.52  1.00  3.60  278.0  15.0  287.2  2.0   0  0.00   82.  1000.   10 NAD-SFC NoSubs
11  6 12 163  4  -18.1  0.330 -9.000 -9.000 -999.  454.    176.8  0.2160  0.52  1.00  3.60  276.0  15.0  287.1  2.0   0  0.00   82.  1000.   10 NAD-SFC NoSubs
11  6 12 163  5  -15.5  0.282 -9.000 -9.000 -999.  361.    129.6  0.2160  0.52  1.00  3.10  292.0  15.0  287.2  2.0   0  0.00   81.  1000.   10 NAD-SFC NoSubs
11  6 12 163  6   -7.0  0.238 -9.000 -9.000 -999.  279.    172.2  0.2160  0.52  0.45  2.60  294.0  15.0  287.4  2.0   0  0.00   80.  1000.   10 NAD-SFC NoSubs
11  6 12 163  7   40.5  0.284  0.652  0.005  244.  363.    -50.4  0.2160  0.52  0.27  2.60  278.0  15.0  287.6  2.0   0  0.00   77.  1001.    5 NAD-SFC NoSubs
11  6 12 163  8   84.7  0.204  0.995  0.005  415.  224.     -9.0  0.2160  0.52  0.21  1.50  270.0  15.0  288.8  2.0   0  0.00   71.  1001.    4 NAD-SFC NoSubs
11  6 12 163  9  124.1 -9.000 -9.000 -9.000  587. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  290.4  2.0   0  0.00   66.  1000.    3 NAD-SFC NoSubs
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11   6 12 163 10  155.1 -9.000 -9.000 -9.000  791. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 292.2  2.0   0  0.00  61. 1000.   3 NAD-SFC NoSubs
11   6 12 163 11  176.5 -9.000 -9.000 -9.000  986. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 294.0  2.0   0  0.00  55. 1000.   3 NAD-SFC NoSubs
11   6 12 163 12  186.9 -9.000 -9.000 -9.000 1085. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 295.6  2.0   0  0.00  51.  999.   3 NAD-SFC NoSubs
11   6 12 163 13  187.0 -9.000 -9.000 -9.000 1176. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 297.0  2.0   0  0.00  47.  998.   3 NAD-SFC NoSubs
11   6 12 163 14  176.5 -9.000 -9.000 -9.000 1255. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 298.1  2.0   0  0.00  44.  998.   3 NAD-SFC NoSubs
11   6 12 163 15  155.0  0.181  1.792  0.012 1322.  185.     -3.4 0.2940  0.52  0.19  1.00   1.0  15.0 298.9  2.0   0  0.00  42.  997.   3 NAD-SFC NoSubs
11   6 12 163 16  124.0 -9.000 -9.000 -9.000 1360. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 299.4  2.0   0  0.00  42.  997.   3 NAD-SFC NoSubs
11   6 12 163 17   84.9  0.322  1.487  0.012 1381.  438.    -34.8 0.2940  0.52  0.22  2.60   9.0  15.0 299.4  2.0   0  0.00  43.  998.   3 NAD-SFC NoSubs
11   6 12 163 18   40.2  0.257  1.162  0.012 1390.  315.    -37.7 0.2940  0.52  0.28  2.10  24.0  15.0 299.1  2.0   0  0.00  52.  998.   3 NAD-SFC NoSubs
11   6 12 163 19   -4.6  0.249 -9.000 -9.000 -999.  299.    298.4 0.2470  0.52  0.48  2.60  34.0  15.0 298.6  2.0   0  0.00  54.  998.   3 NAD-SFC NoSubs
11   6 12 163 20   -7.8  0.137 -9.000 -9.000 -999.  128.     29.4 0.2720  0.52  1.00  1.50 300.0  15.0 297.8  2.0   0  0.00  57.  999.   3 NAD-SFC NoSubs
11   6 12 163 21  -43.6  0.443 -9.000 -9.000 -999.  709.    178.5 0.1750  0.52  1.00  5.10 261.0  15.0 294.8  2.0   0  0.00  68. 1000.   4 NAD-SFC NoSubs
11   6 12 163 22  -44.0  0.443 -9.000 -9.000 -999.  709.    176.9 0.1750  0.52  1.00  5.10 256.0  15.0 292.1  2.0   0  0.00  77. 1000.   4 NAD-SFC NoSubs
11   6 12 163 23  -39.6  0.398 -9.000 -9.000 -999.  605.    142.3 0.1750  0.52  1.00  4.60 257.0  15.0 291.4  2.0   0  0.00  79. 1000.   4 NAD-SFC NoSubs
11   6 12 163 24  -26.4  0.279 -9.000 -9.000 -999.  362.     73.2 0.2160  0.52  1.00  3.10 284.0  15.0 290.9  2.0   0  0.00  82. 1001.   5 NAD-SFC NoSubs
11   6 13 164  1  -13.2  0.184 -9.000 -9.000 -999.  194.     42.3 0.2160  0.52  1.00  2.10 289.0  15.0 290.8  2.0   0  0.00  81. 1001.   6 NAD-SFC NoSubs
11   6 13 164  2   -7.0  0.137 -9.000 -9.000 -999.  123.     32.9 0.2720  0.52  1.00  1.50 313.0  15.0 290.8  2.0   0  0.00  81. 1002.   7 NAD-SFC NoSubs
11   6 13 164  3   -3.4  0.097 -9.000 -9.000 -999.   73.     23.5 0.2720  0.52  1.00  1.00 328.0  15.0 290.4  2.0   0  0.00  82. 1002.   6 NAD-SFC NoSubs
11   6 13 164  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 290.0  2.0   0  0.00  83. 1002.   5 NAD-SFC NoSubs
11   6 13 164  5   -1.6  0.082 -9.000 -9.000 -999.   56.     31.4 0.2940  0.52  1.00  0.50  10.0  15.0 289.6  2.0   0  0.00  84. 1002.   4 NAD-SFC NoSubs
11   6 13 164  6   -0.2  0.047 -9.000 -9.000 -999.   25.     41.9 0.2930  0.52  0.45  0.50 352.0  15.0 289.5  2.0   0  0.00  85. 1003.   4 NAD-SFC NoSubs
11   6 13 164  7   41.5  0.154  0.695  0.007  289.  145.     -7.9 0.2940  0.52  0.27  1.00  15.0  15.0 290.8  2.0   0  0.00  75. 1003.   3 NAD-SFC NoSubs
11   6 13 164  8   86.2 -9.000 -9.000 -9.000  451. -999. -99999.0 0.2235  0.52  0.21  0.00   0.0  15.0 292.2  2.0   0  0.00  69. 1003.   3 NAD-SFC NoSubs
11   6 13 164  9  125.1 -9.000 -9.000 -9.000  597. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 293.8  2.0   0  0.00  64. 1003.   3 NAD-SFC NoSubs
11   6 13 164 10  156.2 -9.000 -9.000 -9.000  743. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 295.6  2.0   0  0.00  58. 1003.   3 NAD-SFC NoSubs
11   6 13 164 11  177.7 -9.000 -9.000 -9.000  884. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 297.4  2.0   0  0.00  53. 1002.   3 NAD-SFC NoSubs
11   6 13 164 12  188.4 -9.000 -9.000 -9.000 1024. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 298.8  2.0   0  0.00  49. 1001.   2 NAD-SFC NoSubs
11   6 13 164 13  188.6  0.121  1.833  0.011 1168.  101.     -1.0 0.2720  0.52  0.19  0.50 312.0  15.0 300.0  2.0   0  0.00  46. 1001.   2 NAD-SFC NoSubs
11   6 13 164 14  178.0  0.184  1.860  0.012 1291.  190.     -3.1 0.2930  0.52  0.19  1.00 354.0  15.0 300.9  2.0   0  0.00  43. 1000.   2 NAD-SFC NoSubs
11   6 13 164 15  156.4  0.292  1.812  0.012 1359.  380.    -14.3 0.2930  0.52  0.19  2.10 360.0  15.0 301.5  2.0   0  0.00  42. 1000.   2 NAD-SFC NoSubs
11   6 13 164 16  125.0 -9.000 -9.000 -9.000 1388. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 301.8  2.0   0  0.00  42. 1000.   2 NAD-SFC NoSubs
11   6 13 164 17   85.5  0.413  1.499  0.012 1408.  638.    -73.7 0.2940  0.52  0.22  3.60  15.0  15.0 301.5  2.0   0  0.00  46. 1000.   2 NAD-SFC NoSubs
11   6 13 164 18   40.2 -9.000 -9.000 -9.000 1417. -999. -99999.0 0.2235  0.52  0.28  0.00   0.0  15.0 301.0  2.0   0  0.00  55. 1000.   2 NAD-SFC NoSubs
11   6 13 164 19   -3.7  0.317 -9.000 -9.000 -999.  429.    765.3 0.2930  0.52  0.48  3.10 346.0  15.0 300.4  2.0   0  0.00  56. 1000.   3 NAD-SFC NoSubs
11   6 13 164 20  -34.9  0.347 -9.000 -9.000 -999.  491.    106.9 0.2720  0.52  1.00  3.60 326.0  15.0 299.2  2.0   0  0.00  59. 1000.   3 NAD-SFC NoSubs
11   6 13 164 21  -35.0  0.347 -9.000 -9.000 -999.  491.    106.4 0.2720  0.52  1.00  3.60 318.0  15.0 297.9  2.0   0  0.00  64. 1000.   3 NAD-SFC NoSubs
11   6 13 164 22  -30.1  0.297 -9.000 -9.000 -999.  389.     77.5 0.2720  0.52  1.00  3.10 317.0  15.0 296.8  2.0   0  0.00  69. 1001.   3 NAD-SFC NoSubs
11   6 13 164 23  -35.3  0.347 -9.000 -9.000 -999.  490.    105.6 0.2720  0.52  1.00  3.60 317.0  15.0 295.8  2.0   0  0.00  73. 1001.   3 NAD-SFC NoSubs
11   6 13 164 24  -24.4  0.246 -9.000 -9.000 -999.  299.     54.6 0.2720  0.52  1.00  2.60 328.0  15.0 294.8  2.0   0  0.00  77. 1001.   3 NAD-SFC NoSubs
11   6 14 165  1  -25.3  0.252 -9.000 -9.000 -999.  303.     56.2 0.2930  0.52  1.00  2.60 349.0  15.0 294.1  2.0   0  0.00  80. 1001.   3 NAD-SFC NoSubs
11   6 14 165  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 293.2  2.0   0  0.00  83. 1001.   3 NAD-SFC NoSubs
11   6 14 165  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 292.6  2.0   0  0.00  85. 1002.   3 NAD-SFC NoSubs
11   6 14 165  4   -3.9  0.101 -9.000 -9.000 -999.   78.     23.7 0.2930  0.52  1.00  1.00 350.0  15.0 292.0  2.0   0  0.00  86. 1002.   3 NAD-SFC NoSubs
11   6 14 165  5   -3.8  0.100 -9.000 -9.000 -999.   76.     23.3 0.2720  0.52  1.00  1.00 327.0  15.0 291.4  2.0   0  0.00  87. 1002.   3 NAD-SFC NoSubs
11   6 14 165  6   -1.7  0.096 -9.000 -9.000 -999.   71.     47.2 0.2930  0.52  0.45  1.00 331.0  15.0 291.2  2.0   0  0.00  86. 1003.   2 NAD-SFC NoSubs
11   6 14 165  7   40.9  0.202  0.619  0.008  207.  218.    -18.0 0.2930  0.52  0.27  1.50 349.0  15.0 292.5  2.0   0  0.00  74. 1003.   2 NAD-SFC NoSubs
11   6 14 165  8   86.2 -9.000 -9.000 -9.000  332. -999. -99999.0 0.2235  0.52  0.21  0.00   0.0  15.0 294.2  2.0   0  0.00  68. 1003.   2 NAD-SFC NoSubs
11   6 14 165  9  125.6 -9.000 -9.000 -9.000  494. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 295.9  2.0   0  0.00  62. 1003.   2 NAD-SFC NoSubs
11   6 14 165 10  157.0 -9.000 -9.000 -9.000  676. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 297.8  2.0   0  0.00  56. 1002.   2 NAD-SFC NoSubs
11   6 14 165 11  178.8 -9.000 -9.000 -9.000  944. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 299.5  2.0   0  0.00  52. 1002.   2 NAD-SFC NoSubs
11   6 14 165 12  189.5 -9.000 -9.000 -9.000 1029. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 301.1  2.0   0  0.00  48. 1001.   2 NAD-SFC NoSubs
11   6 14 165 13  189.8  0.121  1.796  0.013 1090.  101.     -1.0 0.2720  0.52  0.19  0.50 319.0  15.0 302.5  2.0   0  0.00  44. 1000.   2 NAD-SFC NoSubs
11   6 14 165 14  179.4  0.238  1.793  0.013 1146.  279.     -6.7 0.2930  0.52  0.19  1.50 346.0  15.0 303.6  2.0   0  0.00  41.  999.   2 NAD-SFC NoSubs
11   6 14 165 15  157.9  0.340  1.741  0.013 1192.  476.    -22.2 0.2930  0.52  0.19  2.60 360.0  15.0 304.2  2.0   0  0.00  40.  999.   2 NAD-SFC NoSubs
11   6 14 165 16  126.7  0.380  1.634  0.012 1229.  561.    -38.4 0.2940  0.52  0.20  3.10   8.0  15.0 304.8  2.0   0  0.00  42.  998.   2 NAD-SFC NoSubs
11   6 14 165 17   87.3  0.368  1.453  0.012 1252.  537.    -51.0 0.2940  0.52  0.22  3.10   8.0  15.0 304.6  2.0   0  0.00  46.  998.   2 NAD-SFC NoSubs
11   6 14 165 18   42.2  0.258  1.144  0.012 1263.  322.    -36.4 0.2940  0.52  0.28  2.10  14.0  15.0 304.4  2.0   0  0.00  52.  998.   2 NAD-SFC NoSubs
11   6 14 165 19   -2.1  0.212 -9.000 -9.000 -999.  236.    414.6 0.2930  0.52  0.47  2.10 336.0  15.0 303.6  2.0   0  0.00  53.  999.   2 NAD-SFC NoSubs
11   6 14 165 20  -15.6  0.196 -9.000 -9.000 -999.  208.     42.7 0.2720  0.52  1.00  2.10 319.0  15.0 302.2  2.0   0  0.00  55.  999.   2 NAD-SFC NoSubs
11   6 14 165 21  -15.7  0.196 -9.000 -9.000 -999.  208.     42.6 0.2720  0.52  1.00  2.10 306.0  15.0 301.1  2.0   0  0.00  57.  999.   2 NAD-SFC NoSubs
11   6 14 165 22  -22.0  0.231 -9.000 -9.000 -999.  266.     49.8 0.2160  0.52  1.00  2.60 297.0  15.0 300.0  2.0   0  0.00  60.  999.   2 NAD-SFC NoSubs
11   6 14 165 23  -38.5  0.373 -9.000 -9.000 -999.  546.    119.6 0.2160  0.52  1.00  4.10 288.0  15.0 298.1  2.0   0  0.00  66.  999.   2 NAD-SFC NoSubs
11   6 14 165 24  -28.9  0.278 -9.000 -9.000 -999.  357.     66.3 0.2160  0.52  1.00  3.10 299.0  15.0 296.8  2.0   0  0.00  69.  998.   2 NAD-SFC NoSubs
11   6 15 166  1  -22.1  0.231 -9.000 -9.000 -999.  267.     49.4 0.2160  0.52  1.00  2.60 292.0  15.0 296.1  2.0   0  0.00  70.  998.   2 NAD-SFC NoSubs
11   6 15 166  2  -22.1  0.231 -9.000 -9.000 -999.  266.     49.3 0.2160  0.52  1.00  2.60 291.0  15.0 295.5  2.0   0  0.00  70.  998.   2 NAD-SFC NoSubs
11   6 15 166  3   -7.9  0.137 -9.000 -9.000 -999.  125.     28.9 0.2720  0.52  1.00  1.50 300.0  15.0 294.9  2.0   0  0.00  72.  999.   2 NAD-SFC NoSubs
11   6 15 166  4   -7.9  0.137 -9.000 -9.000 -999.  122.     28.9 0.2720  0.52  1.00  1.50 324.0  15.0 294.4  2.0   0  0.00  74.  999.   2 NAD-SFC NoSubs
11   6 15 166  5   -3.9  0.101 -9.000 -9.000 -999.   77.     23.3 0.2720  0.52  1.00  1.00 325.0  15.0 293.8  2.0   0  0.00  75.  999.   2 NAD-SFC NoSubs
11   6 15 166  6   -1.5  0.097 -9.000 -9.000 -999.   72.     53.8 0.2930  0.52  0.45  1.00 332.0  15.0 293.6  2.0   0  0.00  76.  999.   2 NAD-SFC NoSubs
11   6 15 166  7   41.7  0.203  0.572  0.008  159.  219.    -17.8 0.2930  0.52  0.27  1.50 347.0  15.0 295.0  2.0   0  0.00  67.  999.   2 NAD-SFC NoSubs
11   6 15 166  8   87.0 -9.000 -9.000 -9.000  321. -999. -99999.0 0.2235  0.52  0.21  0.00   0.0  15.0 296.8  2.0   0  0.00  61.  999.   2 NAD-SFC NoSubs
11   6 15 166  9  126.6 -9.000 -9.000 -9.000  494. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 298.6  2.0   0  0.00  53.  998.   2 NAD-SFC NoSubs
11   6 15 166 10  158.0 -9.000 -9.000 -9.000  669. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 300.2  2.0   0  0.00  47.  998.   2 NAD-SFC NoSubs
11   6 15 166 11  179.9 -9.000 -9.000 -9.000  843. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 301.9  2.0   0  0.00  43.  997.   2 NAD-SFC NoSubs
11   6 15 166 12  190.6 -9.000 -9.000 -9.000  985. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 303.2  2.0   0  0.00  39.  996.   2 NAD-SFC NoSubs
11   6 15 166 13  190.8  0.121  1.786  0.010 1062.  102.     -1.0 0.2720  0.52  0.19  0.50 317.0  15.0 304.4  2.0   0  0.00  36.  995.   2 NAD-SFC NoSubs
11   6 15 166 14  180.3  0.238  1.789  0.010 1129.  280.     -6.7 0.2930  0.52  0.19  1.50 347.0  15.0 305.0  2.0   0  0.00  35.  995.   2 NAD-SFC NoSubs
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11  6 15 166 15  158.6  0.341  1.743  0.009 1185.  477.    -22.1 0.2940  0.52  0.19  2.60    5.0  15.0 305.2  2.0    0  0.00   35.  994.    2 NAD-SFC NoSubs
11  6 15 166 16  127.2 -9.000 -9.000 -9.000 1229. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 305.2  2.0    0  0.00   36.  993.    2 NAD-SFC NoSubs
11  6 15 166 17   87.6 -9.000 -9.000 -9.000 1256. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0 304.8  2.0    0  0.00   42.  993.    2 NAD-SFC NoSubs
11  6 15 166 18   42.4  0.304  1.149  0.009 1269.  403.    -58.9 0.2930  0.52  0.28  2.60  356.0  15.0 304.2  2.0    0  0.00   50.  993.    2 NAD-SFC NoSubs
11  6 15 166 19   -3.5  0.371 -9.000 -9.000 -999.  542.   1300.1 0.2930  0.52  0.47  3.60  345.0  15.0 303.2  2.0    0  0.00   52.  994.    2 NAD-SFC NoSubs
11  6 15 166 20  -39.4  0.397 -9.000 -9.000 -999.  601.    141.1 0.2720  0.52  1.00  4.10  317.0  15.0 301.2  2.0    0  0.00   57.  994.    3 NAD-SFC NoSubs
11  6 15 166 21  -42.0  0.420 -9.000 -9.000 -999.  653.    156.6 0.2160  0.52  1.00  4.60  280.0  15.0 299.0  2.0    0  0.00   63.  995.    3 NAD-SFC NoSubs
11  6 15 166 22  -40.2  0.398 -9.000 -9.000 -999.  603.    139.2 0.1750  0.52  1.00  4.60  265.0  15.0 296.2  2.0    0  0.00   69.  995.    3 NAD-SFC NoSubs
11  6 15 166 23  -35.8  0.353 -9.000 -9.000 -999.  505.    109.0 0.1750  0.52  1.00  4.10  261.0  15.0 294.8  2.0    0  0.00   69.  995.    3 NAD-SFC NoSubs
11  6 15 166 24  -38.0  0.373 -9.000 -9.000 -999.  546.    121.0 0.2160  0.52  1.00  4.10  273.0  15.0 293.8  2.0    0  0.00   71.  995.    3 NAD-SFC NoSubs
11  6 16 167  1  -28.4  0.278 -9.000 -9.000 -999.  357.     67.3 0.2160  0.52  1.00  3.10  290.0  15.0 293.1  2.0    0  0.00   72.  995.    3 NAD-SFC NoSubs
11  6 16 167  2  -21.9  0.231 -9.000 -9.000 -999.  267.     49.8 0.2160  0.52  1.00  2.60  297.0  15.0 292.6  2.0    0  0.00   73.  996.    3 NAD-SFC NoSubs
11  6 16 167  3  -15.6  0.196 -9.000 -9.000 -999.  208.     42.5 0.2720  0.52  1.00  2.10  300.0  15.0 292.2  2.0    0  0.00   72.  996.    3 NAD-SFC NoSubs
11  6 16 167  4   -7.1  0.129 -9.000 -9.000 -999.  112.     26.8 0.2160  0.52  1.00  1.50  290.0  15.0 292.0  2.0    0  0.00   71.  996.    3 NAD-SFC NoSubs
11  6 16 167  5   -7.1  0.129 -9.000 -9.000 -999.  111.     26.8 0.2160  0.52  1.00  1.50  279.0  15.0 291.8  2.0    0  0.00   71.  996.    3 NAD-SFC NoSubs
11  6 16 167  6   -1.0  0.090 -9.000 -9.000 -999.   64.     60.9 0.2160  0.52  0.45  1.00  271.0  15.0 291.6  2.0    0  0.00   71.  997.    3 NAD-SFC NoSubs
11  6 16 167  7   42.2  0.144  0.574  0.009  159.  132.     -6.4 0.2160  0.52  0.27  1.00  289.0  15.0 293.4  2.0    0  0.00   61.  997.    3 NAD-SFC NoSubs
11  6 16 167  8   86.9 -9.000 -9.000 -9.000  332. -999. -99999.0 0.2235  0.52  0.21  0.00    0.0  15.0 294.8  2.0    0  0.00   55.  997.    3 NAD-SFC NoSubs
11  6 16 167  9  125.9 -9.000 -9.000 -9.000  494. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 296.2  2.0    0  0.00   50.  997.    3 NAD-SFC NoSubs
11  6 16 167 10  157.0 -9.000 -9.000 -9.000  639. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 297.9  2.0    0  0.00   47.  996.    2 NAD-SFC NoSubs
11  6 16 167 11  178.7 -9.000 -9.000 -9.000  850. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 299.4  2.0    0  0.00   43.  996.    2 NAD-SFC NoSubs
11  6 16 167 12  189.3 -9.000 -9.000 -9.000 1030. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 300.6  2.0    0  0.00   40.  995.    2 NAD-SFC NoSubs
11  6 16 167 13  189.5  0.186  1.841  0.008 1171.  192.    -3.0  0.2930  0.52  0.19  1.00  340.0  15.0 301.8  2.0    0  0.00   37.  995.    2 NAD-SFC NoSubs
11  6 16 167 14  179.1  0.297  1.867  0.008 1291.  388.   -13.0  0.2930  0.52  0.19  2.10  349.0  15.0 302.5  2.0    0  0.00   35.  994.    2 NAD-SFC NoSubs
11  6 16 167 15  157.4  0.386  1.824  0.009 1368.  576.   -32.4  0.2930  0.52  0.19  3.10  360.0  15.0 302.8  2.0    0  0.00   34.  994.    2 NAD-SFC NoSubs
11  6 16 167 16  126.1  0.471  1.713  0.009 1414.  775.   -73.4  0.2940  0.52  0.20  4.10    3.0  15.0 302.8  2.0    0  0.00   34.  993.    2 NAD-SFC NoSubs
11  6 16 167 17   86.5 -9.000 -9.000 -9.000 1443. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0 302.2  2.0    0  0.00   41.  993.    2 NAD-SFC NoSubs
11  6 16 167 18   42.4 -9.000 -9.000 -9.000 1455. -999. -99999.0 0.2235  0.52  0.28  0.00    0.0  15.0 301.5  2.0    0  0.00   49.  994.    3 NAD-SFC NoSubs
11  6 16 167 19   -1.9  0.373 -9.000 -9.000 -999.  547.   2373.2 0.2930  0.52  0.47  3.60  354.0  15.0 300.8  2.0    0  0.00   50.  994.    3 NAD-SFC NoSubs
11  6 16 167 20  -37.3  0.373 -9.000 -9.000 -999.  546.    123.4 0.2160  0.52  1.00  4.10  291.0  15.0 299.2  2.0    0  0.00   54.  995.    3 NAD-SFC NoSubs
11  6 16 167 21  -44.8  0.443 -9.000 -9.000 -999.  708.    172.6 0.1750  0.52  1.00  5.10  257.0  15.0 296.2  2.0    0  0.00   65.  995.    3 NAD-SFC NoSubs
11  6 16 167 22  -40.5  0.398 -9.000 -9.000 -999.  604.    138.4 0.1750  0.52  1.00  4.60  267.0  15.0 294.5  2.0    0  0.00   66.  996.    3 NAD-SFC NoSubs
11  6 16 167 23  -40.6  0.398 -9.000 -9.000 -999.  603.    138.0 0.1750  0.52  1.00  4.60  267.0  15.0 293.8  2.0    0  0.00   67.  996.    3 NAD-SFC NoSubs
11  6 16 167 24  -39.0  0.372 -9.000 -9.000 -999.  546.    117.6 0.2160  0.52  1.00  4.10  270.0  15.0 293.1  2.0    0  0.00   68.  996.    2 NAD-SFC NoSubs
11  6 17 168  1  -29.2  0.278 -9.000 -9.000 -999.  357.     65.4 0.2160  0.52  1.00  3.10  276.0  15.0 292.8  2.0    0  0.00   69.  996.    2 NAD-SFC NoSubs
11  6 17 168  2  -22.2  0.231 -9.000 -9.000 -999.  266.     49.0 0.2160  0.52  1.00  2.60  289.0  15.0 292.2  2.0    0  0.00   69.  997.    2 NAD-SFC NoSubs
11  6 17 168  3   -3.6  0.097 -9.000 -9.000 -999.   86.     22.4 0.2160  0.52  1.00  1.00  277.0  15.0 291.9  2.0    0  0.00   68.  997.    2 NAD-SFC NoSubs
11  6 17 168  4   -3.4  0.094 -9.000 -9.000 -999.   69.     21.7 0.1750  0.52  1.00  1.00  268.0  15.0 291.5  2.0    0  0.00   68.  997.    2 NAD-SFC NoSubs
11  6 17 168  5   -7.1  0.129 -9.000 -9.000 -999.  111.     26.8 0.2160  0.52  1.00  1.50  279.0  15.0 291.1  2.0    0  0.00   67.  998.    3 NAD-SFC NoSubs
11  6 17 168  6   -2.6  0.194 -9.000 -9.000 -999.  204.    248.1 0.2160  0.52  0.45  2.10  292.0  15.0 290.9  2.0    0  0.00   67.  998.    3 NAD-SFC NoSubs
11  6 17 168  7   41.8  0.254  0.654  0.007  239.  307.    -34.8 0.2720  0.52  0.27  2.10  327.0  15.0 292.4  2.0    0  0.00   58.  999.    3 NAD-SFC NoSubs
11  6 17 168  8   85.8  0.111  0.966  0.006  375.  105.     -1.4 0.2930  0.52  0.22  0.50  333.0  15.0 293.8  2.0    0  0.00   51.  999.    2 NAD-SFC NoSubs
11  6 17 168  9  125.1 -9.000 -9.000 -9.000  544. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 295.1  2.0    0  0.00   47.  999.    2 NAD-SFC NoSubs
11  6 17 168 10  156.4 -9.000 -9.000 -9.000  710. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 296.6  2.0    0  0.00   42.  999.    2 NAD-SFC NoSubs
11  6 17 168 11  178.1 -9.000 -9.000 -9.000  876. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 298.0  2.0    0  0.00   38.  998.    2 NAD-SFC NoSubs
11  6 17 168 12  188.7 -9.000 -9.000 -9.000 1068. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 299.2  2.0    0  0.00   35.  998.    2 NAD-SFC NoSubs
11  6 17 168 13  188.9 -9.000 -9.000 -9.000 1296. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 300.2  2.0    0  0.00   32.  997.    2 NAD-SFC NoSubs
11  6 17 168 14  178.5  0.122  1.919  0.008 1408.  103.    -1.0  0.2930  0.52  0.19  0.50  347.0  15.0 301.1  2.0    0  0.00   31.  996.    2 NAD-SFC NoSubs
11  6 17 168 15  157.0 -9.000 -9.000 -9.000 1482. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 301.6  2.0    0  0.00   30.  996.    2 NAD-SFC NoSubs
11  6 17 168 16  125.8  0.286  1.758  0.009 1537.  368.   -16.6  0.2940  0.52  0.20  2.10    8.0  15.0 301.8  2.0    0  0.00   30.  996.    2 NAD-SFC NoSubs
11  6 17 168 17   86.5  0.322  1.564  0.009 1574.  439.   -34.3  0.2940  0.52  0.22  2.60    8.0  15.0 301.6  2.0    0  0.00   32.  996.    2 NAD-SFC NoSubs
11  6 17 168 18   41.3  0.258  1.227  0.009 1590.  316.   -36.9  0.2940  0.52  0.28  2.10   22.0  15.0 301.0  2.0    0  0.00   42.  996.    2 NAD-SFC NoSubs
11  6 17 168 19   -3.3  0.211 -9.000 -9.000 -999.  233.    254.2 0.2940  0.52  0.47  2.10    2.0  15.0 300.5  2.0    0  0.00   43.  997.    2 NAD-SFC NoSubs
11  6 17 168 20  -48.2  0.468 -9.000 -9.000 -999.  767.    188.7 0.2160  0.52  1.00  5.10  272.0  15.0 298.5  2.0    0  0.00   49.  998.    2 NAD-SFC NoSubs
11  6 17 168 21  -57.0  0.543 -9.000 -9.000 -999.  959.    250.2 0.1750  0.52  1.00  6.20  265.0  15.0 293.8  2.0    0  0.00   69.  999.    2 NAD-SFC NoSubs
11  6 17 168 22  -49.3  0.467 -9.000 -9.000 -999.  773.    184.5 0.2160  0.52  1.00  5.10  275.0  15.0 292.2  2.0    0  0.00   71.  999.    2 NAD-SFC NoSubs
11  6 17 168 23  -37.3  0.353 -9.000 -9.000 -999.  513.    104.9 0.1750  0.52  1.00  4.10  263.0  15.0 291.4  2.0    0  0.00   75. 1000.    2 NAD-SFC NoSubs
11  6 17 168 24  -22.3  0.230 -9.000 -9.000 -999.  275.     48.9 0.2160  0.52  1.00  2.60  279.0  15.0 290.8  2.0    0  0.00   77. 1000.    2 NAD-SFC NoSubs
11  6 18 169  1   -1.5  0.081 -9.000 -9.000 -999.   82.     31.5 0.2470  0.52  1.00  0.50   50.0  15.0 290.8  2.0    0  0.00   77. 1000.    3 NAD-SFC NoSubs
11  6 18 169  2   -1.4  0.079 -9.000 -9.000 -999.   54.     31.0 0.1970  0.52  1.00  0.50  122.0  15.0 290.6  2.0    0  0.00   77. 1000.    3 NAD-SFC NoSubs
11  6 18 169  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00    0.0  15.0 290.4  2.0    0  0.00   77. 1001.    3 NAD-SFC NoSubs
11  6 18 169  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00    0.0  15.0 290.0  2.0    0  0.00   78. 1001.    2 NAD-SFC NoSubs
11  6 18 169  5   -1.6  0.083 -9.000 -9.000 -999.   58.     31.9 0.2720  0.52  1.00  0.50  321.0  15.0 289.5  2.0    0  0.00   80. 1001.    2 NAD-SFC NoSubs
11  6 18 169  6   -0.5  0.050 -9.000 -9.000 -999.   27.     23.3 0.2720  0.52  0.45  0.50  315.0  15.0 289.2  2.0    0  0.00   82. 1001.    2 NAD-SFC NoSubs
11  6 18 169  7   40.2  0.100  0.646  0.008  239.   75.     -2.2 0.2930  0.52  0.27  0.50  346.0  15.0 291.1  2.0    0  0.00   73. 1002.    2 NAD-SFC NoSubs
11  6 18 169  8   85.3 -9.000 -9.000 -9.000  383. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0 292.6  2.0    0  0.00   65. 1001.    2 NAD-SFC NoSubs
11  6 18 169  9  124.8 -9.000 -9.000 -9.000  546. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 294.4  2.0    0  0.00   57. 1001.    2 NAD-SFC NoSubs
11  6 18 169 10  156.2 -9.000 -9.000 -9.000  691. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 296.2  2.0    0  0.00   50. 1000.    2 NAD-SFC NoSubs
11  6 18 169 11  178.1 -9.000 -9.000 -9.000  804. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 298.0  2.0    0  0.00   44. 1000.    2 NAD-SFC NoSubs
11  6 18 169 12  188.8 -9.000 -9.000 -9.000  910. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 299.4  2.0    0  0.00   39.  999.    2 NAD-SFC NoSubs
11  6 18 169 13  189.1 -9.000 -9.000 -9.000 1014. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 300.6  2.0    0  0.00   36.  998.    2 NAD-SFC NoSubs
11  6 18 169 14  178.9  0.122  1.776  0.008 1116.  103.    -1.0  0.2930  0.52  0.19  0.50  332.0  15.0 301.6  2.0    0  0.00   34.  998.    2 NAD-SFC NoSubs
11  6 18 169 15  157.4 -9.000 -9.000 -9.000 1200. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 302.2  2.0    0  0.00   32.  997.    2 NAD-SFC NoSubs
11  6 18 169 16  126.4  0.286  1.648  0.009 1262.  368.   -16.5  0.2940  0.52  0.20  2.10   10.0  15.0 302.6  2.0    0  0.00   32.  997.    2 NAD-SFC NoSubs
11  6 18 169 17   86.9  0.368  1.470  0.009 1302.  536.   -51.1  0.2940  0.52  0.22  3.10   16.0  15.0 302.2  2.0    0  0.00   34.  997.    2 NAD-SFC NoSubs
11  6 18 169 18   41.9  0.293  1.158  0.009 1320.  383.   -53.3  0.2470  0.52  0.28  2.60   31.0  15.0 301.8  2.0    0  0.00   45.  997.    2 NAD-SFC NoSubs
11  6 18 169 19   -0.0  0.219 -9.000 -9.000 -999.  248.   8888.0 0.2930  0.52  0.47  2.10  331.0  15.0 301.2  2.0    0  0.00   45.  997.    3 NAD-SFC NoSubs
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11	6	18	169	20	-52.9	0.525	-9.000	-9.000	-999.	914.	244.2	0.2160	0.52	1.00	5.70	270.0	15.0	298.2	2.0	0	0.00	57.	998.	3	NAD-SFC	NoSubs
11	6	18	169	21	-55.4	0.543	-9.000	-9.000	-999.	960.	257.5	0.1750	0.52	1.00	6.20	258.0	15.0	294.2	2.0	0	0.00	72.	998.	3	NAD-SFC	NoSubs
11	6	18	169	22	-40.8	0.398	-9.000	-9.000	-999.	621.	137.6	0.1750	0.52	1.00	4.60	260.0	15.0	292.9	2.0	0	0.00	75.	998.	3	NAD-SFC	NoSubs
11	6	18	169	23	-36.3	0.353	-9.000	-9.000	-999.	505.	108.0	0.1750	0.52	1.00	4.10	257.0	15.0	292.0	2.0	0	0.00	79.	998.	3	NAD-SFC	NoSubs
11	6	18	169	24	-22.0	0.231	-9.000	-9.000	-999.	275.	49.7	0.2160	0.52	1.00	2.60	270.0	15.0	291.4	2.0	0	0.00	82.	998.	3	NAD-SFC	NoSubs
11	6	19	170	1	-3.5	0.096	-9.000	-9.000	-999.	88.	22.4	0.2160	0.52	1.00	1.00	272.0	15.0	291.1	2.0	0	0.00	82.	998.	3	NAD-SFC	NoSubs
11	6	19	170	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	290.8	2.0	0	0.00	83.	998.	3	NAD-SFC	NoSubs
11	6	19	170	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	290.5	2.0	0	0.00	84.	998.	4	NAD-SFC	NoSubs
11	6	19	170	4	-1.3	0.077	-9.000	-9.000	-999.	51.	30.3	0.1750	0.52	1.00	0.50	258.0	15.0	290.2	2.0	0	0.00	84.	998.	4	NAD-SFC	NoSubs
11	6	19	170	5	-3.2	0.092	-9.000	-9.000	-999.	67.	21.6	0.1750	0.52	1.00	1.00	264.0	15.0	290.1	2.0	0	0.00	84.	998.	4	NAD-SFC	NoSubs
11	6	19	170	6	-0.2	0.041	-9.000	-9.000	-999.	21.	33.1	0.1750	0.52	0.45	0.50	256.0	15.0	290.4	2.0	0	0.00	83.	999.	4	NAD-SFC	NoSubs
11	6	19	170	7	41.9	-9.000	-9.000	-9.000	204.	-999.	-99999.0	0.2235	0.52	0.27	0.00	0.0	15.0	292.2	2.0	0	0.00	74.	999.	4	NAD-SFC	NoSubs
11	6	19	170	8	85.7	-9.000	-9.000	-9.000	403.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	293.8	2.0	0	0.00	69.	999.	4	NAD-SFC	NoSubs
11	6	19	170	9	123.9	-9.000	-9.000	-9.000	560.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	295.2	2.0	0	0.00	64.	998.	4	NAD-SFC	NoSubs
11	6	19	170	10	154.4	-9.000	-9.000	-9.000	713.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.8	2.0	0	0.00	59.	998.	4	NAD-SFC	NoSubs
11	6	19	170	11	178.0	-9.000	-9.000	-9.000	864.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.2	2.0	0	0.00	55.	997.	3	NAD-SFC	NoSubs
11	6	19	170	12	186.1	-9.000	-9.000	-9.000	1005.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.8	2.0	0	0.00	51.	996.	4	NAD-SFC	NoSubs
11	6	19	170	13	186.4	0.123	1.820	0.008	1150.	104.	-1.0	0.2930	0.52	0.19	0.50	336.0	15.0	300.9	2.0	0	0.00	48.	995.	4	NAD-SFC	NoSubs
11	6	19	170	14	178.8	-9.000	-9.000	-9.000	1273.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.6	2.0	0	0.00	46.	995.	3	NAD-SFC	NoSubs
11	6	19	170	15	157.5	-9.000	-9.000	-9.000	1359.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.1	2.0	0	0.00	46.	994.	3	NAD-SFC	NoSubs
11	6	19	170	16	126.8	0.286	1.712	0.009	1404.	368.	-16.4	0.2930	0.52	0.20	2.10	360.0	15.0	302.6	2.0	0	0.00	46.	994.	3	NAD-SFC	NoSubs
11	6	19	170	17	88.1	0.276	1.527	0.009	1435.	349.	-21.3	0.2930	0.52	0.22	2.10	355.0	15.0	302.8	2.0	0	0.00	46.	994.	3	NAD-SFC	NoSubs
11	6	19	170	18	43.7	0.204	1.213	0.009	1450.	223.	-17.2	0.2930	0.52	0.28	1.50	351.0	15.0	302.8	2.0	0	0.00	51.	994.	3	NAD-SFC	NoSubs
11	6	19	170	19	0.6	0.156	0.299	0.009	1449.	149.	-522.5	0.2930	0.52	0.46	1.50	354.0	15.0	302.2	2.0	0	0.00	52.	994.	3	NAD-SFC	NoSubs
11	6	19	170	20	-1.6	0.082	-9.000	-9.000	-999.	58.	31.4	0.2930	0.52	1.00	0.50	348.0	15.0	301.2	2.0	0	0.00	55.	994.	3	NAD-SFC	NoSubs
11	6	19	170	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	300.0	2.0	0	0.00	59.	995.	2	NAD-SFC	NoSubs
11	6	19	170	22	-1.4	0.078	-9.000	-9.000	-999.	52.	30.7	0.1750	0.52	1.00	0.50	266.0	15.0	298.6	2.0	0	0.00	65.	995.	2	NAD-SFC	NoSubs
11	6	19	170	23	-1.4	0.079	-9.000	-9.000	-999.	53.	30.9	0.1900	0.52	1.00	0.50	184.0	15.0	297.2	2.0	0	0.00	70.	995.	2	NAD-SFC	NoSubs
11	6	19	170	24	-3.4	0.095	-9.000	-9.000	-999.	70.	22.1	0.1970	0.52	1.00	1.00	128.0	15.0	296.2	2.0	0	0.00	72.	995.	2	NAD-SFC	NoSubs
11	6	20	171	1	-3.4	0.095	-9.000	-9.000	-999.	70.	22.1	0.1970	0.52	1.00	1.00	141.0	15.0	295.6	2.0	0	0.00	72.	995.	2	NAD-SFC	NoSubs
11	6	20	171	2	-3.4	0.095	-9.000	-9.000	-999.	70.	22.0	0.1950	0.52	1.00	1.00	222.0	15.0	295.0	2.0	0	0.00	71.	996.	2	NAD-SFC	NoSubs
11	6	20	171	3	-20.2	0.218	-9.000	-9.000	-999.	245.	45.6	0.1750	0.52	1.00	2.60	261.0	15.0	294.0	2.0	0	0.00	68.	996.	2	NAD-SFC	NoSubs
11	6	20	171	4	-29.2	0.278	-9.000	-9.000	-999.	352.	65.4	0.2160	0.52	1.00	3.10	281.0	15.0	292.8	2.0	0	0.00	67.	996.	2	NAD-SFC	NoSubs
11	6	20	171	5	-29.3	0.278	-9.000	-9.000	-999.	352.	65.2	0.2160	0.52	1.00	3.10	278.0	15.0	291.8	2.0	0	0.00	67.	997.	2	NAD-SFC	NoSubs
11	6	20	171	6	-6.3	0.288	-9.000	-9.000	-999.	370.	334.0	0.2160	0.52	0.45	3.10	291.0	15.0	291.8	2.0	0	0.00	64.	997.	2	NAD-SFC	NoSubs
11	6	20	171	7	40.6	0.343	0.528	0.007	128.	483.	-88.7	0.2720	0.52	0.27	3.10	307.0	15.0	293.2	2.0	0	0.00	54.	998.	2	NAD-SFC	NoSubs
11	6	20	171	8	85.8	0.215	0.868	0.008	272.	249.	-10.3	0.2720	0.52	0.22	1.50	300.0	15.0	294.8	2.0	0	0.00	47.	998.	2	NAD-SFC	NoSubs
11	6	20	171	9	125.6	0.165	1.153	0.007	434.	162.	-3.2	0.2160	0.52	0.20	1.00	281.0	15.0	297.1	2.0	0	0.00	41.	997.	2	NAD-SFC	NoSubs
11	6	20	171	10	157.3	0.112	1.394	0.006	614.	91.	-1.0	0.2160	0.52	0.19	0.50	282.0	15.0	299.2	2.0	0	0.00	34.	997.	2	NAD-SFC	NoSubs
11	6	20	171	11	179.4	-9.000	-9.000	-9.000	775.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.2	2.0	0	0.00	30.	996.	2	NAD-SFC	NoSubs
11	6	20	171	12	190.5	0.123	1.699	0.005	917.	104.	-1.0	0.2930	0.52	0.19	0.50	330.0	15.0	302.9	2.0	0	0.00	27.	996.	2	NAD-SFC	NoSubs
11	6	20	171	13	190.9	0.123	1.794	0.006	1075.	104.	-1.0	0.2930	0.52	0.19	0.50	346.0	15.0	304.1	2.0	0	0.00	26.	995.	2	NAD-SFC	NoSubs
11	6	20	171	14	180.7	-9.000	-9.000	-9.000	1227.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	305.0	2.0	0	0.00	25.	994.	2	NAD-SFC	NoSubs
11	6	20	171	15	159.3	0.293	1.820	0.007	1343.	382.	-14.1	0.2940	0.52	0.19	2.10	14.0	15.0	305.4	2.0	0	0.00	26.	994.	2	NAD-SFC	NoSubs
11	6	20	171	16	128.1	0.380	1.716	0.007	1399.	563.	-38.0	0.2940	0.52	0.20	3.10	16.0	15.0	305.4	2.0	0	0.00	27.	993.	2	NAD-SFC	NoSubs
11	6	20	171	17	88.6	0.369	1.531	0.006	1435.	538.	-50.2	0.2940	0.52	0.22	3.10	18.0	15.0	304.8	2.0	0	0.00	35.	993.	2	NAD-SFC	NoSubs
11	6	20	171	18	43.4	0.305	1.212	0.006	1451.	407.	-58.0	0.2940	0.52	0.28	2.60	21.0	15.0	304.0	2.0	0	0.00	41.	993.	2	NAD-SFC	NoSubs
11	6	20	171	19	-0.3	0.218	-9.000	-9.000	-999.	248.	2879.7	0.2930	0.52	0.46	2.10	346.0	15.0	303.2	2.0	0	0.00	41.	994.	2	NAD-SFC	NoSubs
11	6	20	171	20	-15.6	0.196	-9.000	-9.000	-999.	208.	42.6	0.2720	0.52	1.00	2.10	316.0	15.0	302.0	2.0	0	0.00	44.	994.	2	NAD-SFC	NoSubs
11	6	20	171	21	-21.9	0.231	-9.000	-9.000	-999.	266.	49.8	0.2160	0.52	1.00	2.60	298.0	15.0	300.6	2.0	0	0.00	47.	994.	2	NAD-SFC	NoSubs
11	6	20	171	22	-28.5	0.278	-9.000	-9.000	-999.	352.	66.9	0.2160	0.52	1.00	3.10	291.0	15.0	299.2	2.0	0	0.00	50.	994.	2	NAD-SFC	NoSubs
11	6	20	171	23	-33.5	0.325	-9.000	-9.000	-999.	445.	91.1	0.2160	0.52	1.00	3.60	286.0	15.0	297.6	2.0	0	0.00	55.	994.	2	NAD-SFC	NoSubs
11	6	20	171	24	-28.8	0.278	-9.000	-9.000	-999.	353.	66.2	0.2160	0.52	1.00	3.10	286.0	15.0	296.2	2.0	0	0.00	57.	994.	2	NAD-SFC	NoSubs
11	6	21	172	1	-15.7	0.195	-9.000	-9.000	-999.	210.	42.1	0.2720	0.52	1.00	2.10	307.0	15.0	295.6	2.0	0	0.00	58.	995.	2	NAD-SFC	NoSubs
11	6	21	172	2	-3.9	0.100	-9.000	-9.000	-999.	81.	23.3	0.2720	0.52	1.00	1.00	310.0	15.0	295.0	2.0	0	0.00	60.	995.	2	NAD-SFC	NoSubs
11	6	21	172	3	-3.3	0.093	-9.000	-9.000	-999.	68.	21.7	0.1750	0.52	1.00	1.00	257.0	15.0	294.5	2.0	0	0.00	62.	995.	2	NAD-SFC	NoSubs
11	6	21	172	4	-13.0	0.173	-9.000	-9.000	-999.	173.	35.5	0.1750	0.52	1.00	2.10	264.0	15.0	293.9	2.0	0	0.00	63.	996.	2	NAD-SFC	NoSubs
11	6	21	172	5	-22.1	0.231	-9.000	-9.000	-999.	266.	49.2	0.2160	0.52	1.00	2.60	282.0	15.0	293.5	2.0	0	0.00	63.	996.	2	NAD-SFC	NoSubs
11	6	21	172	6	-3.8	0.192	-9.000	-9.000	-999.	202.	166.4	0.2160	0.52	0.45	2.10	277.0	15.0	293.4	2.0	0	0.00	63.	997.	2	NAD-SFC	NoSubs
11	6	21	172	7	41.1	0.253	0.513	0.008	116.	306.	-35.2	0.2720	0.52	0.27	2.10	306.0	15.0	295.0	2.0	0	0.00	58.	997.	2	NAD-SFC	NoSubs
11	6	21	172	8	86.5	0.157	0.833	0.008	238.	154.	-4.0	0.2160	0.52	0.22	1.00	299.0	15.0	296.9	2.0	0	0.00	53.	997.	2	NAD-SFC	NoSubs
11	6	21	172	9	126.3	-9.000	-9.000	-9.000	361.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	299.2	2.0	0	0.00	46.	997.	2	NAD-SFC	NoSubs
11	6	21	172	10	158.2	-9.000	-9.000	-9.000	616.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.4	2.0	0	0.00	40.	996.	2	NAD-SFC	NoSubs
11	6	21	172	11	180.4	-9.000	-9.000	-9.000	770.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.2	2.0	0	0.00	35.	996.	2	NAD-SFC	NoSubs
11	6	21	172	12	191.6	-9.000	-9.000	-9.000	893.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	305.1	2.0	0	0.00	31.	995.	2	NAD-SFC	NoSubs
11	6	21	172	13	192.3	-9.000	-9.000	-9.000	1003.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	306.6	2.0	0	0.00	28.	994.	2	NAD-SFC	NoSubs
11	6	21	172	14	182.3	-9.000	-9.000	-9.000	1099.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	307.6	2.0	0	0.00	27.	994.	2	NAD-SFC	NoSubs
11	6	21	172	15	161.1	0.182	1.749	0.007	1178.	187.	-3.3	0.2940	0.52	0.19	1.00	11.0	15.0	308.2	2.0	0	0.00	27.	993.	2	NAD-SFC	NoSubs
11	6	21	172	16	129.9	0.287	1.655	0.006	1237.	370.	-16.2	0.2940	0.52	0.20	2.10	12.0	15.0	308.2	2.0	0	0.00	28.	993.	2	NAD-SFC	NoSubs
11	6	21	172	17	90.3	0.323	1.481	0.006	1275.	441.	-33.2	0.2940	0.52	0.22	2.60	21.0	15.0	307.4	2.0	0	0.00	38.	993.	2	NAD-SFC	NoSubs
11	6	21	172	18	45.1	0.352	1.180	0.006	1292.	501.	-85.6	0.2940	0.52	0.28	3.10	8.0	15.0	306.6	2.0	0	0.00	44.	993.	2	NAD-SFC	NoSubs
11	6	21	172	19	1.3	0.317	0.361	0.006	1291.	429.	-2197.2	0.2930	0.52	0.46	3.10	358.0	15.0	305.8	2.0	0	0.00	44.	993.	2	NAD-SFC	NoSubs
11	6	21	172	20	-42.3	0.420	-9.000	-9.000	-999.	653.	155.4	0.2160	0.52	1.00	4.60	290.0	15.0	304.5	2.0	0	0.00	46.	994.	2	NAD-SFC	NoSubs
11	6	21	172	21	-42.9	0.420	-9.000	-9.000	-999.	653.	153.1	0.2160	0.52	1.00	4.60	277.0	15.0	300.1	2.0	0	0.00	58.	994.	2	NAD-SFC	NoSubs
11	6	21	172	22	-38.3	0.373	-9.000	-9.000	-999.	548.	119.7	0.2160	0.52	1.00	4.10	281.0	15.0	298.2	2.0	0	0.00	59.	995.	2	NAD-SFC	NoSubs
11	6	21	172	23	-28.7	0.278	-9.000	-9.000	-999.	357.	66.5	0.2160	0.52	1.00	3.10	278.0	15.0	297.5	2.0	0	0.00	57.	995.	2	NAD-SFC	NoSubs
11	6	21	172	24	-7.8	0.137	-9.000	-9.000	-999.	136.	29.0	0.2720	0.52	1.00	1.50	328.0	15.0	297.0	2.0	0	0.00	56.	995.	2	NAD-SFC	NoSubs

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11  6 22 173  1  -15.0  0.190 -9.000 -9.000 -999.  199.     40.6  0.2470  0.52  1.00  2.10   47.0  15.0 296.4  2.0   0  0.00   58.  995.    2 NAD-SFC NoSubs
11  6 22 173  2   -3.7  0.099 -9.000 -9.000 -999.   78.     22.9  0.2470  0.52  1.00  1.00   32.0  15.0 296.2  2.0   0  0.00   57.  995.    2 NAD-SFC NoSubs
11  6 22 173  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0 295.6  2.0   0  0.00   58.  995.    2 NAD-SFC NoSubs
11  6 22 173  4   -1.4  0.080 -9.000 -9.000 -999.   54.     31.1  0.1950  0.52  1.00  0.50  211.0  15.0 294.9  2.0   0  0.00   61.  996.    2 NAD-SFC NoSubs
11  6 22 173  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0 294.1  2.0   0  0.00   65.  996.    2 NAD-SFC NoSubs
11  6 22 173  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.45  0.00    0.0  15.0 293.9  2.0   0  0.00   67.  996.    2 NAD-SFC NoSubs
11  6 22 173  7   41.4 -9.000 -9.000 -9.000  123. -999. -99999.0  0.2235  0.52  0.27  0.00    0.0  15.0 296.2  2.0   0  0.00   59.  996.    2 NAD-SFC NoSubs
11  6 22 173  8   86.9 -9.000 -9.000 -9.000  252. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0 298.4  2.0   0  0.00   54.  996.    2 NAD-SFC NoSubs
11  6 22 173  9  126.8 -9.000 -9.000 -9.000  388. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0 300.6  2.0   0  0.00   48.  996.    2 NAD-SFC NoSubs
11  6 22 173 10  158.6 -9.000 -9.000 -9.000  574. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 302.4  2.0   0  0.00   45.  996.    2 NAD-SFC NoSubs
11  6 22 173 11  180.8 -9.000 -9.000 -9.000  729. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 304.2  2.0   0  0.00   41.  996.    2 NAD-SFC NoSubs
11  6 22 173 12  192.1 -9.000 -9.000 -9.000  863. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 306.0  2.0   0  0.00   36.  995.    2 NAD-SFC NoSubs
11  6 22 173 13  192.8 -9.000 -9.000 -9.000  978. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 307.4  2.0   0  0.00   32.  995.    2 NAD-SFC NoSubs
11  6 22 173 14  182.9  0.123  1.758  0.008 1056.  103.     -1.0  0.2930  0.52  0.19  0.50  351.0  15.0 308.4  2.0   0  0.00   30.  994.    2 NAD-SFC NoSubs
11  6 22 173 15  161.7  0.235  1.722  0.008 1120.  274.     -7.2  0.2930  0.52  0.19  1.50  355.0  15.0 309.1  2.0   0  0.00   29.  994.    2 NAD-SFC NoSubs
11  6 22 173 16  130.7  0.334  1.627  0.007 1169.  463.    -25.2  0.2930  0.52  0.20  2.60  344.0  15.0 309.2  2.0   0  0.00   30.  994.    2 NAD-SFC NoSubs
11  6 22 173 17   91.1  0.273  1.455  0.007 1201.  344.    -19.8  0.2720  0.52  0.22  2.10  320.0  15.0 308.5  2.0   0  0.00   41.  994.    2 NAD-SFC NoSubs
11  6 22 173 18   45.2  0.459  1.156  0.007 1213.  747.   -189.8  0.2160  0.52  0.28  4.60  287.0  15.0 306.6  2.0   0  0.00   47.  995.    2 NAD-SFC NoSubs
11  6 22 173 19   -0.8  0.489 -9.000 -9.000 -999.  820.   8888.0  0.2160  0.52  0.46  5.10  283.0  15.0 302.8  2.0   0  0.00   53.  996.    2 NAD-SFC NoSubs
11  6 22 173 20  -43.1  0.420 -9.000 -9.000 -999.  658.    152.9  0.2160  0.52  1.00  4.60  277.0  15.0 299.8  2.0   0  0.00   59.  996.    2 NAD-SFC NoSubs
11  6 22 173 21  -43.5  0.420 -9.000 -9.000 -999.  653.    151.5  0.2160  0.52  1.00  4.60  279.0  15.0 297.2  2.0   0  0.00   65.  997.    2 NAD-SFC NoSubs
11  6 22 173 22  -33.8  0.325 -9.000 -9.000 -999.  451.     90.5  0.2160  0.52  1.00  3.60  282.0  15.0 295.8  2.0   0  0.00   68.  997.    2 NAD-SFC NoSubs
11  6 22 173 23   -7.9  0.137 -9.000 -9.000 -999.  159.     28.9  0.2720  0.52  1.00  1.50  324.0  15.0 295.2  2.0   0  0.00   70.  998.    2 NAD-SFC NoSubs
11  6 22 173 24   -8.2  0.140 -9.000 -9.000 -999.  126.     29.7  0.2940  0.52  1.00  1.50    8.0  15.0 294.8  2.0   0  0.00   72.  999.    2 NAD-SFC NoSubs
11  6 23 174  1   -7.9  0.137 -9.000 -9.000 -999.  122.     28.8  0.2720  0.52  1.00  1.50  305.0  15.0 293.9  2.0   0  0.00   75.  999.    2 NAD-SFC NoSubs
11  6 23 174  2  -22.2  0.231 -9.000 -9.000 -999.  266.     49.1  0.2160  0.52  1.00  2.60  282.0  15.0 293.1  2.0   0  0.00   78.  999.    2 NAD-SFC NoSubs
11  6 23 174  3  -22.2  0.231 -9.000 -9.000 -999.  266.     49.1  0.2160  0.52  1.00  2.60  277.0  15.0 292.8  2.0   0  0.00   79.  999.    2 NAD-SFC NoSubs
11  6 23 174  4  -14.3  0.183 -9.000 -9.000 -999.  188.     38.2  0.2160  0.52  1.00  2.10  293.0  15.0 292.6  2.0   0  0.00   79.  999.    2 NAD-SFC NoSubs
11  6 23 174  5   -3.9  0.101 -9.000 -9.000 -999.   79.     23.3  0.2720  0.52  1.00  1.00  300.0  15.0 292.2  2.0   0  0.00   81.  999.    2 NAD-SFC NoSubs
11  6 23 174  6   -1.7  0.093 -9.000 -9.000 -999.   68.     42.6  0.2720  0.52  0.46  1.00  318.0  15.0 292.4  2.0   0  0.00   82.  999.    2 NAD-SFC NoSubs
11  6 23 174  7   40.4  0.202  0.644  0.010  235.  218.    -18.2  0.2940  0.52  0.27  1.50    2.0  15.0 293.9  2.0   0  0.00   75. 1000.    2 NAD-SFC NoSubs
11  6 23 174  8   85.6 -9.000 -9.000 -9.000  395. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0 295.5  2.0   0  0.00   70.  999.    2 NAD-SFC NoSubs
11  6 23 174  9  125.2 -9.000 -9.000 -9.000  501. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0 297.1  2.0   0  0.00   65.  999.    2 NAD-SFC NoSubs
11  6 23 174 10  156.9 -9.000 -9.000 -9.000  610. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 299.0  2.0   0  0.00   58.  999.    2 NAD-SFC NoSubs
11  6 23 174 11  179.0 -9.000 -9.000 -9.000  711. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 300.8  2.0   0  0.00   52.  999.    2 NAD-SFC NoSubs
11  6 23 174 12  190.1 -9.000 -9.000 -9.000  802. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 302.2  2.0   0  0.00   47.  998.    2 NAD-SFC NoSubs
11  6 23 174 13  190.8  0.123  1.680  0.010  885.  104.     -1.0  0.2930  0.52  0.19  0.50  334.0  15.0 303.8  2.0   0  0.00   43.  997.    2 NAD-SFC NoSubs
11  6 23 174 14  180.8  0.185  1.694  0.010  957.  191.     -3.1  0.2930  0.52  0.19  1.00  350.0  15.0 304.8  2.0   0  0.00   39.  997.    2 NAD-SFC NoSubs
11  6 23 174 15  159.5  0.293  1.663  0.009 1026.  381.    -14.0  0.2930  0.52  0.19  2.10  348.0  15.0 305.2  2.0   0  0.00   38.  996.    2 NAD-SFC NoSubs
11  6 23 174 16  128.4  0.380  1.574  0.009 1080.  563.    -38.0  0.2940  0.52  0.20  3.10    3.0  15.0 305.2  2.0   0  0.00   38.  996.    2 NAD-SFC NoSubs
11  6 23 174 17   89.1  0.369  1.408  0.009 1115.  538.    -50.1  0.2940  0.52  0.22  3.10    2.0  15.0 304.8  2.0   0  0.00   45.  996.    2 NAD-SFC NoSubs
11  6 23 174 18   45.0  0.352  1.127  0.009 1131.  501.    -85.9  0.2940  0.52  0.28  3.10    1.0  15.0 303.9  2.0   0  0.00   55.  996.    3 NAD-SFC NoSubs
11  6 23 174 19    1.4  0.368  0.357  0.009 1128.  535.  -3093.2  0.2930  0.52  0.46  3.60  334.0  15.0 302.6  2.0   0  0.00   58.  997.    3 NAD-SFC NoSubs
11  6 23 174 20  -41.9  0.420 -9.000 -9.000 -999.  654.    157.6  0.2160  0.52  1.00  4.60  283.0  15.0 300.8  2.0   0  0.00   62.  997.    3 NAD-SFC NoSubs
11  6 23 174 21  -44.7  0.443 -9.000 -9.000 -999.  708.    173.3  0.1750  0.52  1.00  5.10  258.0  15.0 297.4  2.0   0  0.00   70.  998.    3 NAD-SFC NoSubs
11  6 23 174 22  -40.4  0.398 -9.000 -9.000 -999.  605.    138.8  0.1750  0.52  1.00  4.60  261.0  15.0 295.4  2.0   0  0.00   71.  998.    3 NAD-SFC NoSubs
11  6 23 174 23  -33.2  0.325 -9.000 -9.000 -999.  449.     92.4  0.2160  0.52  1.00  3.60  271.0  15.0 294.2  2.0   0  0.00   74.  998.    3 NAD-SFC NoSubs
11  6 23 174 24  -28.5  0.278 -9.000 -9.000 -999.  353.     67.3  0.2160  0.52  1.00  3.10  278.0  15.0 293.2  2.0   0  0.00   75.  999.    3 NAD-SFC NoSubs
11  6 24 175  1  -24.4  0.246 -9.000 -9.000 -999.  294.     54.4  0.2720  0.52  1.00  2.60  304.0  15.0 292.8  2.0   0  0.00   75.  999.    3 NAD-SFC NoSubs
11  6 24 175  2   -8.0  0.140 -9.000 -9.000 -999.  131.     30.5  0.2930  0.52  1.00  1.50  348.0  15.0 292.5  2.0   0  0.00   74.  999.    4 NAD-SFC NoSubs
11  6 24 175  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0 292.2  2.0   0  0.00   75.  999.    4 NAD-SFC NoSubs
11  6 24 175  4   -3.9  0.101 -9.000 -9.000 -999.   78.     23.7  0.2930  0.52  1.00  1.00  331.0  15.0 291.8  2.0   0  0.00   74.  999.    3 NAD-SFC NoSubs
11  6 24 175  5   -1.6  0.082 -9.000 -9.000 -999.   57.     31.6  0.2720  0.52  1.00  0.50  323.0  15.0 291.4  2.0   0  0.00   75.  999.    3 NAD-SFC NoSubs
11  6 24 175  6   -1.5  0.094 -9.000 -9.000 -999.   69.     50.5  0.2720  0.52  0.46  1.00  327.0  15.0 291.4  2.0   0  0.00   74. 1000.    3 NAD-SFC NoSubs
11  6 24 175  7   40.9  0.154  0.628  0.009  216.  145.     -7.9  0.2930  0.52  0.27  1.00  345.0  15.0 292.6  2.0   0  0.00   65. 1000.    3 NAD-SFC NoSubs
11  6 24 175  8   85.0 -9.000 -9.000 -9.000  347. -999. -99999.0  0.2235  0.52  0.22  0.00    0.0  15.0 294.2  2.0   0  0.00   59. 1000.    2 NAD-SFC NoSubs
11  6 24 175  9  124.5 -9.000 -9.000 -9.000  498. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0 295.8  2.0   0  0.00   55. 1000.    2 NAD-SFC NoSubs
11  6 24 175 10  156.1 -9.000 -9.000 -9.000  648. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 297.2  2.0   0  0.00   51.  999.    2 NAD-SFC NoSubs
11  6 24 175 11  178.2 -9.000 -9.000 -9.000  790. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 299.0  2.0   0  0.00   49.  999.    2 NAD-SFC NoSubs
11  6 24 175 12  189.3 -9.000 -9.000 -9.000  920. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 300.6  2.0   0  0.00   44.  998.    2 NAD-SFC NoSubs
11  6 24 175 13  189.8 -9.000 -9.000 -9.000 1041. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 301.8  2.0   0  0.00   40.  997.    2 NAD-SFC NoSubs
11  6 24 175 14  179.8  0.122  1.796  0.011 1148.  103.     -1.0  0.2930  0.52  0.19  0.50  334.0  15.0 302.8  2.0   0  0.00   36.  997.    2 NAD-SFC NoSubs
11  6 24 175 15  158.5  0.234  1.766  0.012 1236.  272.     -7.2  0.2930  0.52  0.19  1.50  349.0  15.0 303.2  2.0   0  0.00   35.  996.    2 NAD-SFC NoSubs
11  6 24 175 16  127.6  0.333  1.671  0.013 1302.  461.    -25.7  0.2930  0.52  0.20  2.60  346.0  15.0 303.5  2.0   0  0.00   34.  996.    2 NAD-SFC NoSubs
11  6 24 175 17   88.3  0.414  1.493  0.013 1341.  639.    -71.4  0.2930  0.52  0.22  3.60  358.0  15.0 303.0  2.0   0  0.00   39.  996.    2 NAD-SFC NoSubs
11  6 24 175 18   43.1  0.351  1.179  0.013 1350.  501.    -88.7  0.2930  0.52  0.28  3.10  359.0  15.0 302.0  2.0   0  0.00   50.  996.    2 NAD-SFC NoSubs
11  6 24 175 19   -2.3  0.373 -9.000 -9.000 -999.  546.   2030.3  0.2930  0.52  0.46  3.60  346.0  15.0 300.9  2.0   0  0.00   52.  996.    2 NAD-SFC NoSubs
11  6 24 175 20  -35.6  0.347 -9.000 -9.000 -999.  491.    104.2  0.2720  0.52  1.00  3.60  329.0  15.0 299.8  2.0   0  0.00   52.  997.    2 NAD-SFC NoSubs
11  6 24 175 21  -43.3  0.420 -9.000 -9.000 -999.  653.    152.0  0.2160  0.52  1.00  4.60  291.0  15.0 298.0  2.0   0  0.00   57.  997.    2 NAD-SFC NoSubs
11  6 24 175 22  -46.2  0.443 -9.000 -9.000 -999.  707.    167.1  0.1750  0.52  1.00  5.10  268.0  15.0 294.8  2.0   0  0.00   67.  997.    2 NAD-SFC NoSubs
11  6 24 175 23  -40.7  0.398 -9.000 -9.000 -999.  604.    137.7  0.1750  0.52  1.00  4.60  266.0  15.0 293.0  2.0   0  0.00   69.  997.    3 NAD-SFC NoSubs
11  6 24 175 24  -38.2  0.373 -9.000 -9.000 -999.  547.    120.4  0.2160  0.52  1.00  4.10  283.0  15.0 292.2  2.0   0  0.00   71.  997.    3 NAD-SFC NoSubs
11  6 25 176  1  -33.5  0.325 -9.000 -9.000 -999.  447.     91.6  0.2160  0.52  1.00  3.60  293.0  15.0 291.8  2.0   0  0.00   73.  998.    3 NAD-SFC NoSubs
11  6 25 176  2  -24.5  0.246 -9.000 -9.000 -999.  296.     54.3  0.2720  0.52  1.00  2.60  318.0  15.0 291.2  2.0   0  0.00   73.  998.    3 NAD-SFC NoSubs
11  6 25 176  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0 291.1  2.0   0  0.00   74.  998.    3 NAD-SFC NoSubs
11  6 25 176  4   -3.9  0.102 -9.000 -9.000 -999.   78.     23.7  0.2940  0.52  1.00  1.00   19.0  15.0 290.8  2.0   0  0.00   76.  998.    3 NAD-SFC NoSubs
11  6 25 176  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0 290.2  2.0   0  0.00   77.  998.    3 NAD-SFC NoSubs
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11  6 25 176  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  0.46  0.00   0.0  15.0 290.1  2.0   0  0.00  79.  999.   3 NAD-SFC NoSubs
11  6 25 176  7   39.3  0.099  0.613  0.010  208.   75.     -2.2 0.2940  0.52  0.28  0.50   9.0  15.0 291.8  2.0   0  0.00  67. 1000.   2 NAD-SFC NoSubs
11  6 25 176  8   84.6 -9.000 -9.000 -9.000  326. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 293.4  2.0   0  0.00  59. 1000.   2 NAD-SFC NoSubs
11  6 25 176  9  124.1 -9.000 -9.000 -9.000  458. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 295.0  2.0   0  0.00  54.  999.   2 NAD-SFC NoSubs
11  6 25 176 10  155.8 -9.000 -9.000 -9.000  595. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 296.8  2.0   0  0.00  50.  999.   2 NAD-SFC NoSubs
11  6 25 176 11  177.8 -9.000 -9.000 -9.000  749. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 298.2  2.0   0  0.00  46.  999.   2 NAD-SFC NoSubs
11  6 25 176 12  189.0 -9.000 -9.000 -9.000  910. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 300.0  2.0   0  0.00  42.  998.   2 NAD-SFC NoSubs
11  6 25 176 13  189.5 -9.000 -9.000 -9.000 1048. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 301.2  2.0   0  0.00  38.  997.   2 NAD-SFC NoSubs
11  6 25 176 14  179.5  0.122  1.803  0.009 1163.  103.     -1.0 0.2930  0.52  0.19  0.50 349.0  15.0 302.1  2.0   0  0.00  35.  997.   2 NAD-SFC NoSubs
11  6 25 176 15  158.4  0.234  1.775  0.010 1257.  272.     -7.2 0.2930  0.52  0.19  1.50 356.0  15.0 302.8  2.0   0  0.00  34.  996.   2 NAD-SFC NoSubs
11  6 25 176 16  127.3 -9.000 -9.000 -9.000 1327. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 302.8  2.0   0  0.00  34.  996.   2 NAD-SFC NoSubs
11  6 25 176 17   88.2  0.414  1.499  0.010 1358.  640.    -71.6 0.2940  0.52  0.22  3.60   8.0  15.0 302.4  2.0   0  0.00  38.  996.   2 NAD-SFC NoSubs
11  6 25 176 18   43.0  0.351  1.183  0.010 1368.  501.    -89.1 0.2940  0.52  0.28  3.10  12.0  15.0 301.6  2.0   0  0.00  49.  997.   2 NAD-SFC NoSubs
11  6 25 176 19    3.8 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  0.46  0.00   0.0  15.0 300.8  2.0   0  0.00  52.  997.   2 NAD-SFC NoSubs
11  6 25 176 20  -35.5  0.355 -9.000 -9.000 -999.  507.    111.8 0.2930  0.52  1.00  3.60 349.0  15.0 299.6  2.0   0  0.00  54.  997.   3 NAD-SFC NoSubs
11  6 25 176 21  -34.9  0.347 -9.000 -9.000 -999.  491.    106.7 0.2720  0.52  1.00  3.60 325.0  15.0 298.6  2.0   0  0.00  58.  998.   3 NAD-SFC NoSubs
11  6 25 176 22  -37.7  0.373 -9.000 -9.000 -999.  546.    122.3 0.2160  0.52  1.00  4.10 292.0  15.0 296.6  2.0   0  0.00  66.  998.   3 NAD-SFC NoSubs
11  6 25 176 23  -38.0  0.373 -9.000 -9.000 -999.  546.    121.4 0.2160  0.52  1.00  4.10 281.0  15.0 294.8  2.0   0  0.00  71.  999.   3 NAD-SFC NoSubs
11  6 25 176 24  -35.5  0.347 -9.000 -9.000 -999.  491.    104.9 0.2720  0.52  1.00  3.60 312.0  15.0 293.8  2.0   0  0.00  75.  999.   3 NAD-SFC NoSubs
11  6 26 177  1  -36.4  0.355 -9.000 -9.000 -999.  507.    109.1 0.2930  0.52  1.00  3.60 342.0  15.0 292.8  2.0   0  0.00  77.  999.   3 NAD-SFC NoSubs
11  6 26 177  2  -31.2  0.303 -9.000 -9.000 -999.  402.     79.6 0.2930  0.52  1.00  3.10 355.0  15.0 291.8  2.0   0  0.00  80. 1000.   3 NAD-SFC NoSubs
11  6 26 177  3  -25.5  0.252 -9.000 -9.000 -999.  305.     56.0 0.2940  0.52  1.00  2.60   3.0  15.0 291.0  2.0   0  0.00  81. 1000.   3 NAD-SFC NoSubs
11  6 26 177  4  -16.3  0.200 -9.000 -9.000 -999.  215.     43.6 0.2930  0.52  1.00  2.10 355.0  15.0 290.4  2.0   0  0.00  81.  999.   3 NAD-SFC NoSubs
11  6 26 177  5   -8.2  0.140 -9.000 -9.000 -999.  126.     29.8 0.2930  0.52  1.00  1.50 359.0  15.0 289.8  2.0   0  0.00  82.  999.   3 NAD-SFC NoSubs
11  6 26 177  6   15.8 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  0.46  0.00   0.0  15.0 289.6  2.0   0  0.00  79. 1000.   3 NAD-SFC NoSubs
11  6 26 177  7   39.8 -9.000 -9.000 -9.000  243. -999. -99999.0 0.2235  0.52  0.28  0.00   0.0  15.0 290.6  2.0   0  0.00  70. 1000.   3 NAD-SFC NoSubs
11  6 26 177  8   84.0  0.108  0.916  0.009  326.   86.     -1.4 0.2720  0.52  0.22  0.50 326.0  15.0 292.4  2.0   0  0.00  62. 1000.   2 NAD-SFC NoSubs
11  6 26 177  9  123.7 -9.000 -9.000 -9.000  440. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 294.1  2.0   0  0.00  57. 1000.   2 NAD-SFC NoSubs
11  6 26 177 10  155.3 -9.000 -9.000 -9.000  591. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 295.8  2.0   0  0.00  53.  999.   2 NAD-SFC NoSubs
11  6 26 177 11  177.4 -9.000 -9.000 -9.000  745. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 297.5  2.0   0  0.00  49.  998.   2 NAD-SFC NoSubs
11  6 26 177 12  188.5 -9.000 -9.000 -9.000  891. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 299.0  2.0   0  0.00  45.  998.   2 NAD-SFC NoSubs
11  6 26 177 13  189.1 -9.000 -9.000 -9.000 1018. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 300.2  2.0   0  0.00  42.  997.   2 NAD-SFC NoSubs
11  6 26 177 14  179.1  0.122  1.782  0.008 1123.  103.     -1.0 0.2930  0.52  0.19  0.50 356.0  15.0 301.2  2.0   0  0.00  40.  996.   2 NAD-SFC NoSubs
11  6 26 177 15  158.0  0.234  1.751  0.009 1209.  272.     -7.2 0.2940  0.52  0.19  1.50  12.0  15.0 301.9  2.0   0  0.00  38.  996.   2 NAD-SFC NoSubs
11  6 26 177 16  127.2  0.287  1.657  0.009 1273.  368.    -16.4 0.2940  0.52  0.20  2.10  10.0  15.0 302.2  2.0   0  0.00  37.  996.   2 NAD-SFC NoSubs
11  6 26 177 17   88.1  0.369  1.483  0.009 1315.  537.    -50.5 0.2940  0.52  0.22  3.10   8.0  15.0 302.1  2.0   0  0.00  38.  996.   2 NAD-SFC NoSubs
11  6 26 177 18   43.1  0.305  1.173  0.009 1333.  406.    -58.5 0.2940  0.52  0.27  2.60  14.0  15.0 301.4  2.0   0  0.00  49.  996.   2 NAD-SFC NoSubs
11  6 26 177 19   -2.2  0.373 -9.000 -9.000 -999.  547.   2056.9 0.2940  0.52  0.46  3.60   8.0  15.0 300.5  2.0   0  0.00  51.  996.   2 NAD-SFC NoSubs
11  6 26 177 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 299.2  2.0   0  0.00  53.  997.   3 NAD-SFC NoSubs
11  6 26 177 21  -16.1  0.200 -9.000 -9.000 -999.  215.     44.3 0.2930  0.52  1.00  2.10 353.0  15.0 298.2  2.0   0  0.00  56.  997.   3 NAD-SFC NoSubs
11  6 26 177 22   -7.0  0.129 -9.000 -9.000 -999.  112.     27.1 0.2160  0.52  1.00  1.50 290.0  15.0 297.2  2.0   0  0.00  60.  997.   3 NAD-SFC NoSubs
11  6 26 177 23  -20.0  0.218 -9.000 -9.000 -999.  245.     46.4 0.1750  0.52  1.00  2.60 259.0  15.0 295.9  2.0   0  0.00  65.  997.   3 NAD-SFC NoSubs
11  6 26 177 24  -14.0  0.183 -9.000 -9.000 -999.  188.     39.0 0.2160  0.52  1.00  2.10 273.0  15.0 294.8  2.0   0  0.00  68.  997.   3 NAD-SFC NoSubs
11  6 27 178  1  -15.6  0.196 -9.000 -9.000 -999.  208.     42.6 0.2720  0.52  1.00  2.10 311.0  15.0 294.1  2.0   0  0.00  71.  998.   3 NAD-SFC NoSubs
11  6 27 178  2  -36.3  0.355 -9.000 -9.000 -999.  507.    109.3 0.2930  0.52  1.00  3.60 345.0  15.0 293.2  2.0   0  0.00  76.  998.   3 NAD-SFC NoSubs
11  6 27 178  3  -36.4  0.355 -9.000 -9.000 -999.  507.    108.8 0.2930  0.52  1.00  3.60 356.0  15.0 291.9  2.0   0  0.00  82.  998.   3 NAD-SFC NoSubs
11  6 27 178  4  -31.3  0.303 -9.000 -9.000 -999.  402.     79.4 0.2930  0.52  1.00  3.10 358.0  15.0 291.0  2.0   0  0.00  85.  999.   3 NAD-SFC NoSubs
11  6 27 178  5  -25.7  0.251 -9.000 -9.000 -999.  304.     55.0 0.2930  0.52  1.00  2.60 356.0  15.0 290.4  2.0   0  0.00  86.  999.   2 NAD-SFC NoSubs
11  6 27 178  6   -6.3  0.207 -9.000 -9.000 -999.  227.    125.7 0.2930  0.52  0.46  2.10 356.0  15.0 290.4  2.0   0  0.00  83.  999.   2 NAD-SFC NoSubs
11  6 27 178  7   38.9  0.201  0.550  0.008  152.  217.    -18.7 0.2930  0.52  0.28  1.50 350.0  15.0 291.8  2.0   0  0.00  72.  999.   2 NAD-SFC NoSubs
11  6 27 178  8   84.3 -9.000 -9.000 -9.000  264. -999. -99999.0 0.2235  0.52  0.22  0.00   0.0  15.0 293.8  2.0   0  0.00  65.  999.   2 NAD-SFC NoSubs
11  6 27 178  9  124.1 -9.000 -9.000 -9.000  385. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 295.9  2.0   0  0.00  58.  999.   2 NAD-SFC NoSubs
11  6 27 178 10  155.9 -9.000 -9.000 -9.000  631. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 297.8  2.0   0  0.00  53.  998.   2 NAD-SFC NoSubs
11  6 27 178 11  178.2  0.114  1.615  0.010  843.   93.     -1.0 0.2160  0.52  0.19  0.50 295.0  15.0 299.4  2.0   0  0.00  48.  998.   2 NAD-SFC NoSubs
11  6 27 178 12  189.3 -9.000 -9.000 -9.000  996. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 300.9  2.0   0  0.00  44.  997.   2 NAD-SFC NoSubs
11  6 27 178 13  189.9 -9.000 -9.000 -9.000 1069. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 302.0  2.0   0  0.00  41.  997.   2 NAD-SFC NoSubs
11  6 27 178 14  180.0  0.123  1.791  0.012 1135.  103.     -1.0 0.2940  0.52  0.19  0.50  18.0  15.0 303.0  2.0   0  0.00  38.  996.   2 NAD-SFC NoSubs
11  6 27 178 15  159.0  0.235  1.745  0.012 1190.  273.     -7.2 0.2940  0.52  0.19  1.50  22.0  15.0 303.6  2.0   0  0.00  37.  996.   2 NAD-SFC NoSubs
11  6 27 178 16  128.1  0.287  1.644  0.012 1233.  369.    -16.4 0.2940  0.52  0.20  2.10  27.0  15.0 303.9  2.0   0  0.00  37.  995.   2 NAD-SFC NoSubs
11  6 27 178 17   89.0  0.323  1.468  0.012 1261.  440.    -33.6 0.2940  0.52  0.22  2.60  27.0  15.0 303.8  2.0   0  0.00  39.  995.   2 NAD-SFC NoSubs
11  6 27 178 18   45.1  0.294  1.174  0.012 1274.  384.    -50.2 0.2470  0.52  0.27  2.60  35.0  15.0 303.2  2.0   0  0.00  48.  996.   3 NAD-SFC NoSubs
11  6 27 178 19    1.8 -9.000 -9.000 -9.000 1274. -999. -99999.0 0.2235  0.52  0.46  0.00   0.0  15.0 302.8  2.0   0  0.00  49.  996.   3 NAD-SFC NoSubs
11  6 27 178 20  -41.9  0.420 -9.000 -9.000 -999.  654.    157.6 0.2160  0.52  1.00  4.60 282.0  15.0 300.8  2.0   0  0.00  54.  997.   3 NAD-SFC NoSubs
11  6 27 178 21  -53.3  0.525 -9.000 -9.000 -999.  913.    242.0 0.2160  0.52  1.00  5.70 273.0  15.0 295.8  2.0   0  0.00  67.  998.   3 NAD-SFC NoSubs
11  6 27 178 22  -45.2  0.443 -9.000 -9.000 -999.  714.    171.4 0.1750  0.52  1.00  5.10 258.0  15.0 294.2  2.0   0  0.00  69.  998.   3 NAD-SFC NoSubs
11  6 27 178 23  -38.2  0.373 -9.000 -9.000 -999.  550.    120.8 0.2160  0.52  1.00  4.10 283.0  15.0 293.1  2.0   0  0.00  72.  999.   3 NAD-SFC NoSubs
11  6 27 178 24  -30.4  0.297 -9.000 -9.000 -999.  391.     76.4 0.2720  0.52  1.00  3.10 305.0  15.0 292.6  2.0   0  0.00  74.  999.   3 NAD-SFC NoSubs
11  6 28 179  1  -30.5  0.297 -9.000 -9.000 -999.  388.     76.4 0.2720  0.52  1.00  3.10 327.0  15.0 292.5  2.0   0  0.00  75.  999.   3 NAD-SFC NoSubs
11  6 28 179  2  -31.2  0.303 -9.000 -9.000 -999.  401.     79.7 0.2930  0.52  1.00  3.10 337.0  15.0 292.2  2.0   0  0.00  78.  999.   3 NAD-SFC NoSubs
11  6 28 179  3  -25.4  0.252 -9.000 -9.000 -999.  304.     56.0 0.2930  0.52  1.00  2.60 336.0  15.0 291.6  2.0   0  0.00  81.  999.   3 NAD-SFC NoSubs
11  6 28 179  4  -16.3  0.200 -9.000 -9.000 -999.  215.     43.7 0.2930  0.52  1.00  2.10 335.0  15.0 291.0  2.0   0  0.00  84.  999.   3 NAD-SFC NoSubs
11  6 28 179  5  -16.3  0.200 -9.000 -9.000 -999.  215.     43.6 0.2930  0.52  1.00  2.10 342.0  15.0 290.2  2.0   0  0.00  85.  999.   3 NAD-SFC NoSubs
11  6 28 179  6   -5.0  0.208 -9.000 -9.000 -999.  228.    161.5 0.2930  0.52  0.46  2.10 348.0  15.0 290.2  2.0   0  0.00  83.  999.   3 NAD-SFC NoSubs
11  6 28 179  7   39.5  0.257  0.626  0.009  221.  313.    -38.3 0.2930  0.52  0.28  2.10 347.0  15.0 291.1  2.0   0  0.00  74.  999.   3 NAD-SFC NoSubs
11  6 28 179  8   84.5  0.165  0.911  0.009  319.  164.     -4.7 0.2720  0.52  0.22  1.00 329.0  15.0 292.9  2.0   0  0.00  66.  999.   3 NAD-SFC NoSubs
11  6 28 179  9  123.8  0.116  1.156  0.009  444.   95.     -1.1 0.2930  0.52  0.20  0.50 334.0  15.0 294.6  2.0   0  0.00  61.  999.   3 NAD-SFC NoSubs
11  6 28 179 10  155.2 -9.000 -9.000 -9.000  600. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 296.2  2.0   0  0.00  57.  999.   2 NAD-SFC NoSubs
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11	6	28	179	11	177.5	-9.000	-9.000	-9.000	732.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.0	2.0	0	0.00	54.	998.	2	NAD-SFC	NoSubs
11	6	28	179	12	188.7	-9.000	-9.000	-9.000	847.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.8	2.0	0	0.00	50.	997.	2	NAD-SFC	NoSubs
11	6	28	179	13	189.5	0.123	1.716	0.009	949.	104.	-1.0	0.2930	0.52	0.19	0.50	343.0	15.0	301.2	2.0	0	0.00	45.	997.	2	NAD-SFC	NoSubs
11	6	28	179	14	179.6	0.185	1.738	0.010	1041.	190.	-3.1	0.2930	0.52	0.19	1.00	347.0	15.0	302.4	2.0	0	0.00	41.	996.	3	NAD-SFC	NoSubs
11	6	28	179	15	158.8	0.235	1.708	0.010	1116.	273.	-7.2	0.2940	0.52	0.19	1.50	5.0	15.0	303.2	2.0	0	0.00	38.	995.	3	NAD-SFC	NoSubs
11	6	28	179	16	128.4	0.287	1.618	0.011	1173.	368.	-16.3	0.2930	0.52	0.20	2.10	342.0	15.0	303.8	2.0	0	0.00	35.	995.	3	NAD-SFC	NoSubs
11	6	28	179	17	88.9	0.388	1.446	0.011	1209.	579.	-58.1	0.2160	0.52	0.22	3.60	296.0	15.0	303.2	2.0	0	0.00	39.	995.	2	NAD-SFC	NoSubs
11	6	28	179	18	42.7	0.556	1.135	0.011	1219.	994.	-357.3	0.2160	0.52	0.27	5.70	282.0	15.0	300.1	2.0	0	0.00	51.	996.	2	NAD-SFC	NoSubs
11	6	28	179	19	-9.0	0.542	-9.000	-9.000	-999.	958.	1569.0	0.2160	0.52	0.46	5.70	285.0	15.0	296.2	2.0	0	0.00	59.	997.	2	NAD-SFC	NoSubs
11	6	28	179	20	-48.9	0.467	-9.000	-9.000	-999.	773.	185.8	0.2160	0.52	1.00	5.10	284.0	15.0	294.1	2.0	0	0.00	66.	998.	2	NAD-SFC	NoSubs
11	6	28	179	21	-44.3	0.420	-9.000	-9.000	-999.	655.	148.9	0.2160	0.52	1.00	4.60	276.0	15.0	292.2	2.0	0	0.00	72.	999.	2	NAD-SFC	NoSubs
11	6	28	179	22	-29.4	0.278	-9.000	-9.000	-999.	366.	65.0	0.2160	0.52	1.00	3.10	294.0	15.0	291.2	2.0	0	0.00	76.	1000.	2	NAD-SFC	NoSubs
11	6	28	179	23	-16.3	0.200	-9.000	-9.000	-999.	218.	43.6	0.2930	0.52	1.00	2.10	332.0	15.0	290.8	2.0	0	0.00	76.	1001.	3	NAD-SFC	NoSubs
11	6	28	179	24	-28.9	0.278	-9.000	-9.000	-999.	352.	66.5	0.2160	0.52	1.00	3.10	278.0	15.0	290.0	2.0	0	0.00	78.	1002.	3	NAD-SFC	NoSubs
11	6	29	180	1	-30.9	0.308	-9.000	-9.000	-999.	411.	84.7	0.1750	0.52	1.00	3.60	256.0	15.0	289.2	2.0	0	0.00	81.	1002.	4	NAD-SFC	NoSubs
11	6	29	180	2	-25.2	0.264	-9.000	-9.000	-999.	326.	65.2	0.1750	0.52	1.00	3.10	249.0	15.0	288.9	2.0	0	0.00	83.	1002.	5	NAD-SFC	NoSubs
11	6	29	180	3	-19.7	0.266	-9.000	-9.000	-999.	329.	84.9	0.1750	0.52	1.00	3.10	262.0	15.0	288.8	2.0	0	0.00	83.	1002.	8	NAD-SFC	NoSubs
11	6	29	180	4	-15.4	0.282	-9.000	-9.000	-999.	360.	130.4	0.2160	0.52	1.00	3.10	272.0	15.0	289.1	2.0	0	0.00	82.	1002.	10	NAD-SFC	NoSubs
11	6	29	180	5	-12.8	0.235	-9.000	-9.000	-999.	274.	90.5	0.2160	0.52	1.00	2.60	289.0	15.0	289.2	2.0	0	0.00	82.	1002.	10	NAD-SFC	NoSubs
11	6	29	180	6	-6.2	0.203	-9.000	-9.000	-999.	220.	119.7	0.2720	0.52	0.46	2.10	316.0	15.0	289.2	2.0	0	0.25	84.	1003.	10	NAD-SFC	NoSubs
11	6	29	180	7	7.4	0.272	0.305	0.005	136.	341.	-244.2	0.2720	0.52	0.28	2.60	319.0	15.0	289.1	2.0	0	0.25	85.	1003.	10	NAD-SFC	NoSubs
11	6	29	180	8	18.6	0.289	0.552	0.005	323.	372.	-115.6	0.2930	0.52	0.22	2.60	338.0	15.0	289.1	2.0	0	0.25	84.	1004.	10	NAD-SFC	NoSubs
11	6	29	180	9	28.5	0.296	0.741	0.005	511.	386.	-81.4	0.2930	0.52	0.20	2.60	360.0	15.0	289.2	2.0	0	0.25	80.	1004.	10	NAD-SFC	NoSubs
11	6	29	180	10	36.4	0.255	0.878	0.005	665.	310.	-40.9	0.2930	0.52	0.19	2.10	355.0	15.0	289.8	2.0	0	0.00	75.	1004.	10	NAD-SFC	NoSubs
11	6	29	180	11	140.5	0.116	1.479	0.006	825.	110.	-1.0	0.2720	0.52	0.19	0.50	302.0	15.0	292.1	2.0	0	0.00	63.	1003.	7	NAD-SFC	NoSubs
11	6	29	180	12	177.3	-9.000	-9.000	-9.000	988.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	293.8	2.0	0	0.00	54.	1003.	5	NAD-SFC	NoSubs
11	6	29	180	13	186.7	0.121	1.799	0.008	1117.	101.	-1.0	0.2720	0.52	0.19	0.50	305.0	15.0	295.1	2.0	0	0.00	47.	1002.	3	NAD-SFC	NoSubs
11	6	29	180	14	176.9	0.234	1.824	0.009	1227.	271.	-6.5	0.2720	0.52	0.19	1.50	306.0	15.0	296.2	2.0	0	0.00	42.	1001.	3	NAD-SFC	NoSubs
11	6	29	180	15	156.0	0.340	1.790	0.009	1316.	475.	-22.4	0.2930	0.52	0.19	2.60	334.0	15.0	296.8	2.0	0	0.00	39.	1001.	3	NAD-SFC	NoSubs
11	6	29	180	16	125.5	0.379	1.687	0.009	1366.	560.	-38.7	0.2930	0.52	0.20	3.10	335.0	15.0	297.2	2.0	0	0.00	41.	1000.	3	NAD-SFC	NoSubs
11	6	29	180	17	86.9	0.414	1.502	0.009	1393.	638.	-72.5	0.2930	0.52	0.22	3.60	343.0	15.0	297.2	2.0	0	0.00	42.	1000.	3	NAD-SFC	NoSubs
11	6	29	180	18	42.4	0.350	1.186	0.009	1405.	500.	-90.3	0.2930	0.52	0.27	3.10	337.0	15.0	296.8	2.0	0	0.00	53.	1000.	3	NAD-SFC	NoSubs
11	6	29	180	19	-4.1	0.424	-9.000	-9.000	-999.	662.	1653.9	0.2930	0.52	0.46	4.10	355.0	15.0	295.1	2.0	0	0.00	62.	1001.	3	NAD-SFC	NoSubs
11	6	29	180	20	-41.7	0.406	-9.000	-9.000	-999.	621.	143.3	0.2930	0.52	1.00	4.10	352.0	15.0	293.2	2.0	0	0.00	70.	1001.	3	NAD-SFC	NoSubs
11	6	29	180	21	-36.6	0.355	-9.000	-9.000	-999.	509.	108.9	0.2930	0.52	1.00	3.60	339.0	15.0	292.1	2.0	0	0.00	75.	1002.	3	NAD-SFC	NoSubs
11	6	29	180	22	-30.2	0.303	-9.000	-9.000	-999.	403.	82.6	0.2930	0.52	1.00	3.10	342.0	15.0	291.2	2.0	0	0.00	79.	1002.	4	NAD-SFC	NoSubs
11	6	29	180	23	-25.1	0.252	-9.000	-9.000	-999.	305.	57.1	0.2930	0.52	1.00	2.60	344.0	15.0	290.8	2.0	0	0.00	81.	1002.	4	NAD-SFC	NoSubs
11	6	29	180	24	-16.4	0.200	-9.000	-9.000	-999.	215.	43.6	0.2930	0.52	1.00	2.10	347.0	15.0	290.5	2.0	0	0.00	82.	1002.	3	NAD-SFC	NoSubs
11	6	30	181	1	-4.0	0.102	-9.000	-9.000	-999.	82.	23.7	0.2930	0.52	1.00	1.00	338.0	15.0	290.0	2.0	0	0.00	83.	1002.	3	NAD-SFC	NoSubs
11	6	30	181	2	-1.6	0.083	-9.000	-9.000	-999.	57.	31.7	0.2720	0.52	1.00	0.50	313.0	15.0	289.6	2.0	0	0.00	85.	1002.	3	NAD-SFC	NoSubs
11	6	30	181	3	-1.6	0.083	-9.000	-9.000	-999.	57.	31.7	0.2720	0.52	1.00	0.50	300.0	15.0	289.1	2.0	0	0.00	87.	1002.	3	NAD-SFC	NoSubs
11	6	30	181	4	-3.9	0.101	-9.000	-9.000	-999.	77.	23.3	0.2720	0.52	1.00	1.00	306.0	15.0	288.8	2.0	0	0.00	89.	1003.	2	NAD-SFC	NoSubs
11	6	30	181	5	-4.0	0.101	-9.000	-9.000	-999.	77.	23.3	0.2720	0.52	1.00	1.00	318.0	15.0	288.2	2.0	0	0.00	90.	1003.	2	NAD-SFC	NoSubs
11	6	30	181	6	-2.1	0.091	-9.000	-9.000	-999.	66.	32.6	0.2720	0.52	0.47	1.00	317.0	15.0	288.4	2.0	0	0.00	89.	1003.	2	NAD-SFC	NoSubs
11	6	30	181	7	37.7	0.099	0.643	0.005	252.	75.	-2.3	0.2930	0.52	0.28	0.50	354.0	15.0	290.2	2.0	0	0.00	78.	1004.	2	NAD-SFC	NoSubs
11	6	30	181	8	83.0	-9.000	-9.000	-9.000	596.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	291.8	2.0	0	0.00	71.	1004.	2	NAD-SFC	NoSubs
11	6	30	181	9	122.6	-9.000	-9.000	-9.000	766.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	293.2	2.0	0	0.00	64.	1003.	2	NAD-SFC	NoSubs
11	6	30	181	10	154.5	-9.000	-9.000	-9.000	898.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.0	2.0	0	0.00	57.	1003.	2	NAD-SFC	NoSubs
11	6	30	181	11	176.7	-9.000	-9.000	-9.000	997.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.6	2.0	0	0.00	51.	1002.	2	NAD-SFC	NoSubs
11	6	30	181	12	187.9	-9.000	-9.000	-9.000	1053.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.9	2.0	0	0.00	49.	1001.	2	NAD-SFC	NoSubs
11	6	30	181	13	188.5	-9.000	-9.000	-9.000	1107.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.0	2.0	0	0.00	47.	1000.	2	NAD-SFC	NoSubs
11	6	30	181	14	178.6	0.184	1.794	0.014	1155.	190.	-3.1	0.2930	0.52	0.19	1.00	349.0	15.0	299.9	2.0	0	0.00	46.	1000.	2	NAD-SFC	NoSubs
11	6	30	181	15	157.6	0.234	1.742	0.014	1197.	272.	-7.3	0.2940	0.52	0.19	1.50	5.0	15.0	300.6	2.0	0	0.00	45.	999.	2	NAD-SFC	NoSubs
11	6	30	181	16	126.9	-9.000	-9.000	-9.000	1230.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	301.0	2.0	0	0.00	44.	998.	2	NAD-SFC	NoSubs
11	6	30	181	17	88.0	0.322	1.456	0.013	1251.	440.	-33.9	0.2940	0.52	0.22	2.60	12.0	15.0	301.1	2.0	0	0.00	45.	998.	2	NAD-SFC	NoSubs
11	6	30	181	18	43.1	0.259	1.152	0.013	1262.	318.	-35.8	0.2940	0.52	0.27	2.10	22.0	15.0	300.9	2.0	0	0.00	52.	998.	2	NAD-SFC	NoSubs
11	6	30	181	19	-0.9	0.216	-9.000	-9.000	-999.	241.	965.5	0.2940	0.52	0.46	2.10	8.0	15.0	300.4	2.0	0	0.00	54.	998.	2	NAD-SFC	NoSubs
11	6	30	181	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	299.2	2.0	0	0.00	57.	998.	2	NAD-SFC	NoSubs
11	6	30	181	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	298.2	2.0	0	0.00	61.	998.	2	NAD-SFC	NoSubs
11	6	30	181	22	-1.4	0.079	-9.000	-9.000	-999.	54.	31.0	0.1950	0.52	1.00	0.50	222.0	15.0	296.9	2.0	0	0.00	67.	998.	2	NAD-SFC	NoSubs
11	6	30	181	23	-1.4	0.080	-9.000	-9.000	-999.	54.	31.0	0.1950	0.52	1.00	0.50	237.0	15.0	295.8	2.0	0	0.00	71.	998.	2	NAD-SFC	NoSubs
11	6	30	181	24	-3.5	0.095	-9.000	-9.000	-999.	70.	22.1	0.1970	0.52	1.00	1.00	127.0	15.0	294.9	2.0	0	0.00	75.	998.	2	NAD-SFC	NoSubs
11	7	1	182	1	-3.5	0.096	-9.000	-9.000	-999.	72.	22.4	0.2130	0.52	1.00	1.00	118.0	15.0	294.2	2.0	0	0.00	77.	998.	2	NAD-SFC	NoSubs
11	7	1	182	2	-4.0	0.102	-9.000	-9.000	-999.	78.	23.6	0.2930	0.52	1.00	1.00	345.0	15.0	293.8	2.0	0	0.00	78.	998.	2	NAD-SFC	NoSubs
11	7	1	182	3	-8.2	0.140	-9.000	-9.000	-999.	125.	29.6	0.2930	0.52	1.00	1.50	354.0	15.0	293.2	2.0	0	0.00	80.	998.	2	NAD-SFC	NoSubs
11	7	1	182	4	-8.2	0.140	-9.000	-9.000	-999.	125.	29.6	0.2930	0.52	1.00	1.50	338.0	15.0	292.5	2.0	0	0.00	82.	998.	2	NAD-SFC	NoSubs
11	7	1	182	5	-16.5	0.200	-9.000	-9.000	-999.	214.	43.1	0.2930	0.52	1.00	2.10	331.0	15.0	291.9	2.0	0	0.00	83.	998.	2	NAD-SFC	NoSubs
11	7	1	182	6	-4.8	0.145	-9.000	-9.000	-999.	134.	56.6	0.2930	0.52	0.47	1.50	330.0	15.0	291.8	2.0	0	0.00	83.	999.	2	NAD-SFC	NoSubs
11	7	1	182	7	38.2	0.201	0.564	0.007	166.	216.	-18.9	0.2930	0.52	0.28	1.50	342.0	15.0	293.0	2.0	0	0.00	74.	999.	2	NAD-SFC	NoSubs
11	7	1	182	8	83.8	0.108	0.898	0.007	308.	89.	-1.4	0.2720	0.52	0.22	0.50	304.0	15.0	294.9	2.0	0	0.00	66.	998.	2	NAD-SFC	NoSubs
11	7	1	182	9	123.7	-9.000	-9.000	-9.000	497.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.8	2.0	0	0.00	60.	998.	2	NAD-SFC	NoSubs
11	7	1	182	10	155.7	-9.000	-9.000	-9.000	693.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.5	2.0	0	0.00	54.	998.	2	NAD-SFC	NoSubs
11	7	1	182	11	178.1	0.120	1.603	0.013	824.	100.	-1.0	0.2720	0.52	0.19	0.50	318.0	15.0	300.2	2.0	0	0.00	50.	997.	2	NAD-SFC	NoSubs
11	7	1	182	12	189.5	0.123	1.713	0.014	944.	104.	-1.0	0.2930	0.52	0.19	0.50	331.0	15.0	301.8	2.0	0	0.00	46.	996.	2	NAD-SFC	NoSubs
11	7	1	182	13	190.4	0.123	1.759	0.013	1016.	104.	-1.0	0.2930	0.52	0.19	0.50	352.0	15.0	303.2	2.0	0	0.00	42.	995.	2	NAD-SFC	NoSubs
11	7	1	182	14	180.8	0.185	1.758	0.013	1068.	191.	-3.1	0.2930	0.52	0.19	1.00	360.0	15.0	304.4	2.0	0	0.00	39.	995.	2	NAD-SFC	NoSubs
11	7	1	182	15	159.9	0.235	1.711	0.013	1113.	273.	-7.2	0.2940	0.52	0.19	1.50	1.0	15.0	305.1	2.0	0	0.00	38.	994.	2	NAD-SFC	NoSubs

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11  7  1 182 16  129.2 -9.000 -9.000 -9.000 1148. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 305.4  2.0   0  0.00  38.  994.   2 NAD-SFC NoSubs
11  7  1 182 17   90.1 -9.000 -9.000 -9.000 1170. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0 305.2  2.0   0  0.00  41.  994.   2 NAD-SFC NoSubs
11  7  1 182 18   45.2  0.260  1.146  0.012 1182.  318.    -34.4 0.2930  0.52  0.27  2.10  353.0  15.0 304.9  2.0   0  0.00  49.  994.   2 NAD-SFC NoSubs
11  7  1 182 19    1.1  0.267  0.337  0.012 1181.  331.  -1472.4 0.2930  0.52  0.46  2.60  348.0  15.0 304.0  2.0   0  0.00  51.  994.   2 NAD-SFC NoSubs
11  7  1 182 20  -16.1  0.200 -9.000 -9.000 -999.  216.    44.0 0.2930  0.52  1.00  2.10  355.0  15.0 302.6  2.0   0  0.00  55.  994.   2 NAD-SFC NoSubs
11  7  1 182 21   -8.1  0.140 -9.000 -9.000 -999.  126.    30.0 0.2930  0.52  1.00  1.50  340.0  15.0 301.2  2.0   0  0.00  59.  994.   2 NAD-SFC NoSubs
11  7  1 182 22   -3.8  0.100 -9.000 -9.000 -999.   76.    23.3 0.2720  0.52  1.00  1.00  325.0  15.0 300.0  2.0   0  0.00  64.  994.   2 NAD-SFC NoSubs
11  7  1 182 23  -14.0  0.183 -9.000 -9.000 -999.  188.    38.7 0.2160  0.52  1.00  2.10  283.0  15.0 298.8  2.0   0  0.00  68.  994.   2 NAD-SFC NoSubs
11  7  1 182 24  -22.0  0.231 -9.000 -9.000 -999.  266.    49.5 0.2160  0.52  1.00  2.60  294.0  15.0 297.6  2.0   0  0.00  70.  994.   2 NAD-SFC NoSubs
11  7  2 183  1  -15.7  0.195 -9.000 -9.000 -999.  208.    42.2 0.2720  0.52  1.00  2.10  300.0  15.0 296.8  2.0   0  0.00  70.  994.   2 NAD-SFC NoSubs
11  7  2 183  2  -15.7  0.195 -9.000 -9.000 -999.  207.    42.2 0.2720  0.52  1.00  2.10  311.0  15.0 296.1  2.0   0  0.00  71.  994.   2 NAD-SFC NoSubs
11  7  2 183  3  -16.3  0.200 -9.000 -9.000 -999.  214.    43.4 0.2930  0.52  1.00  2.10  335.0  15.0 295.5  2.0   0  0.00  73.  994.   2 NAD-SFC NoSubs
11  7  2 183  4  -16.3  0.200 -9.000 -9.000 -999.  214.    43.3 0.2930  0.52  1.00  2.10  341.0  15.0 294.8  2.0   0  0.00  76.  994.   2 NAD-SFC NoSubs
11  7  2 183  5   -8.2  0.140 -9.000 -9.000 -999.  126.    29.6 0.2930  0.52  1.00  1.50  340.0  15.0 294.1  2.0   0  0.00  80.  994.   2 NAD-SFC NoSubs
11  7  2 183  6   -1.9  0.092 -9.000 -9.000 -999.   67.    35.4 0.2720  0.52  0.47  1.00  322.0  15.0 293.8  2.0   0  0.00  82.  995.   2 NAD-SFC NoSubs
11  7  2 183  7   38.7  0.201  0.520  0.008  129.  217.    -18.7 0.2930  0.52  0.28  1.50  341.0  15.0 295.1  2.0   0  0.00  74.  995.   2 NAD-SFC NoSubs
11  7  2 183  8   84.3  0.109  0.816  0.008  228.   89.     -1.3 0.2720  0.52  0.22  0.50  315.0  15.0 297.0  2.0   0  0.00  66.  995.   2 NAD-SFC NoSubs
11  7  2 183  9  124.7 -9.000 -9.000 -9.000  362. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 299.6  2.0   0  0.00  56.  994.   2 NAD-SFC NoSubs
11  7  2 183 10  156.9  0.118  1.431  0.013  663.   97.     -1.0 0.2720  0.52  0.19  0.50  304.0  15.0 301.5  2.0   0  0.00  50.  994.   2 NAD-SFC NoSubs
11  7  2 183 11  179.6 -9.000 -9.000 -9.000  748. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 303.5  2.0   0  0.00  45.  994.   2 NAD-SFC NoSubs
11  7  2 183 12  191.3 -9.000 -9.000 -9.000  830. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 305.4  2.0   0  0.00  40.  993.   2 NAD-SFC NoSubs
11  7  2 183 13  192.4  0.186  1.700  0.011  905.  193.     -3.0 0.2930  0.52  0.19  1.00  344.0  15.0 306.9  2.0   0  0.00  35.  992.   2 NAD-SFC NoSubs
11  7  2 183 14  182.8 -9.000 -9.000 -9.000  972. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 307.9  2.0   0  0.00  33.  991.   2 NAD-SFC NoSubs
11  7  2 183 15  161.7  0.387  1.679  0.009 1036.  579.    -31.8 0.2940  0.52  0.19  3.10   12.0  15.0 308.2  2.0   0  0.00  33.  991.   2 NAD-SFC NoSubs
11  7  2 183 16  130.8  0.427  1.588  0.009 1084.  668.    -52.5 0.2940  0.52  0.20  3.60   13.0  15.0 308.1  2.0   0  0.00  35.  991.   2 NAD-SFC NoSubs
11  7  2 183 17   91.4  0.324  1.423  0.009 1116.  449.    -32.8 0.2940  0.52  0.22  2.60    8.0  15.0 307.5  2.0   0  0.00  45.  991.   2 NAD-SFC NoSubs
11  7  2 183 18   46.5 -9.000 -9.000 -9.000 1131. -999. -99999.0 0.2235  0.52  0.27  0.00    0.0  15.0 307.2  2.0   0  0.00  48.  991.   2 NAD-SFC NoSubs
11  7  2 183 19    2.5  0.269  0.429  0.008 1131.  336.   -703.9 0.2930  0.52  0.46  2.60  345.0  15.0 306.4  2.0   0  0.00  48.  991.   2 NAD-SFC NoSubs
11  7  2 183 20  -29.7  0.297 -9.000 -9.000 -999.  388.    77.7 0.2720  0.52  1.00  3.10  307.0  15.0 305.2  2.0   0  0.00  50.  991.   2 NAD-SFC NoSubs
11  7  2 183 21  -47.4  0.468 -9.000 -9.000 -999.  768.   191.1 0.2160  0.52  1.00  5.10  293.0  15.0 302.2  2.0   0  0.00  59.  992.   2 NAD-SFC NoSubs
11  7  2 183 22  -38.1  0.373 -9.000 -9.000 -999.  553.   120.2 0.2160  0.52  1.00  4.10  279.0  15.0 299.4  2.0   0  0.00  66.  992.   2 NAD-SFC NoSubs
11  7  2 183 23  -33.4  0.325 -9.000 -9.000 -999.  447.    91.3 0.2160  0.52  1.00  3.60  276.0  15.0 298.4  2.0   0  0.00  65.  993.   2 NAD-SFC NoSubs
11  7  2 183 24  -33.4  0.325 -9.000 -9.000 -999.  445.    91.3 0.2160  0.52  1.00  3.60  292.0  15.0 298.2  2.0   0  0.00  65.  993.   2 NAD-SFC NoSubs
11  7  3 184  1  -28.5  0.278 -9.000 -9.000 -999.  353.    66.7 0.2160  0.52  1.00  3.10  299.0  15.0 298.4  2.0   0  0.00  65.  993.   2 NAD-SFC NoSubs
11  7  3 184  2  -30.5  0.297 -9.000 -9.000 -999.  388.    75.8 0.2720  0.52  1.00  3.10  304.0  15.0 298.0  2.0   0  0.00  67.  993.   2 NAD-SFC NoSubs
11  7  3 184  3  -22.0  0.231 -9.000 -9.000 -999.  268.    49.5 0.2160  0.52  1.00  2.60  286.0  15.0 297.5  2.0   0  0.00  69.  994.   2 NAD-SFC NoSubs
11  7  3 184  4   -6.5  0.122 -9.000 -9.000 -999.  109.    25.0 0.1750  0.52  1.00  1.50  267.0  15.0 296.9  2.0   0  0.00  69.  994.   2 NAD-SFC NoSubs
11  7  3 184  5   -1.4  0.078 -9.000 -9.000 -999.   53.    30.8 0.1750  0.52  1.00  0.50  241.0  15.0 296.4  2.0   0  0.00  70.  994.   2 NAD-SFC NoSubs
11  7  3 184  6   18.9 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  0.47  0.00    0.0  15.0 296.1  2.0   0  0.00  71.  995.   2 NAD-SFC NoSubs
11  7  3 184  7   39.1  0.099  0.643  0.012  242.   75.     -2.2 0.2930  0.52  0.28  0.50  336.0  15.0 297.0  2.0   0  0.00  65.  995.   2 NAD-SFC NoSubs
11  7  3 184  8   84.7 -9.000 -9.000 -9.000  311. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0 298.6  2.0   0  0.00  59.  995.   2 NAD-SFC NoSubs
11  7  3 184  9  124.8 -9.000 -9.000 -9.000  392. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 300.4  2.0   0  0.00  52.  995.   2 NAD-SFC NoSubs
11  7  3 184 10  156.9  0.118  1.332  0.008  535.   97.     -1.0 0.2720  0.52  0.19  0.50  321.0  15.0 302.0  2.0   0  0.00  48.  995.   2 NAD-SFC NoSubs
11  7  3 184 11  179.6  0.182  1.499  0.008  666.  186.     -3.0 0.2720  0.52  0.19  1.00  321.0  15.0 303.8  2.0   0  0.00  43.  994.   2 NAD-SFC NoSubs
11  7  3 184 12  191.1  0.236  1.648  0.008  832.  276.     -6.1 0.2720  0.52  0.19  1.50  324.0  15.0 305.2  2.0   0  0.00  39.  994.   2 NAD-SFC NoSubs
11  7  3 184 13  192.0  0.236  1.739  0.009  972.  276.     -6.1 0.2720  0.52  0.19  1.50  319.0  15.0 306.4  2.0   0  0.00  37.  993.   2 NAD-SFC NoSubs
11  7  3 184 14  182.5  0.235  1.763  0.008 1065.  273.     -6.3 0.2720  0.52  0.19  1.50  326.0  15.0 307.4  2.0   0  0.00  35.  993.   2 NAD-SFC NoSubs
11  7  3 184 15  161.6  0.294  1.733  0.008 1141.  382.    -13.9 0.2930  0.52  0.19  2.10  337.0  15.0 308.0  2.0   0  0.00  34.  992.   2 NAD-SFC NoSubs
11  7  3 184 16  130.8  0.334  1.642  0.008 1198.  463.    -25.2 0.2930  0.52  0.20  2.60  348.0  15.0 308.2  2.0   0  0.00  34.  992.   2 NAD-SFC NoSubs
11  7  3 184 17   91.6 -9.000 -9.000 -9.000 1235. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0 307.8  2.0   0  0.00  42.  992.   2 NAD-SFC NoSubs
11  7  3 184 18   46.5  0.307  1.181  0.008 1253.  408.    -54.9 0.2940  0.52  0.27  2.60    7.0  15.0 307.2  2.0   0  0.00  48.  992.   2 NAD-SFC NoSubs
11  7  3 184 19    2.3  0.319  0.435  0.008 1251.  432.  -1234.5 0.2930  0.52  0.46  3.10  347.0  15.0 306.2  2.0   0  0.00  50.  993.   2 NAD-SFC NoSubs
11  7  3 184 20  -34.9  0.347 -9.000 -9.000 -999.  490.   106.2 0.2720  0.52  1.00  3.60  319.0  15.0 305.0  2.0   0  0.00  53.  994.   2 NAD-SFC NoSubs
11  7  3 184 21  -42.6  0.420 -9.000 -9.000 -999.  653.   154.4 0.2160  0.52  1.00  4.60  286.0  15.0 302.8  2.0   0  0.00  59.  994.   2 NAD-SFC NoSubs
11  7  3 184 22  -38.1  0.373 -9.000 -9.000 -999.  548.   120.5 0.2160  0.52  1.00  4.10  285.0  15.0 300.1  2.0   0  0.00  66.  995.   2 NAD-SFC NoSubs
11  7  3 184 23  -33.4  0.325 -9.000 -9.000 -999.  447.    91.4 0.2160  0.52  1.00  3.60  275.0  15.0 298.8  2.0   0  0.00  67.  995.   2 NAD-SFC NoSubs
11  7  3 184 24  -33.6  0.325 -9.000 -9.000 -999.  445.    91.2 0.2160  0.52  1.00  3.60  271.0  15.0 297.9  2.0   0  0.00  68.  996.   2 NAD-SFC NoSubs
11  7  4 185  1  -28.7  0.278 -9.000 -9.000 -999.  353.    66.6 0.2160  0.52  1.00  3.10  285.0  15.0 297.9  2.0   0  0.00  67.  996.   2 NAD-SFC NoSubs
11  7  4 185  2  -28.7  0.278 -9.000 -9.000 -999.  352.    66.6 0.2160  0.52  1.00  3.10  289.0  15.0 297.9  2.0   0  0.00  67.  996.   2 NAD-SFC NoSubs
11  7  4 185  3  -15.7  0.195 -9.000 -9.000 -999.  210.    42.3 0.2720  0.52  1.00  2.10  320.0  15.0 297.5  2.0   0  0.00  69.  996.   2 NAD-SFC NoSubs
11  7  4 185  4   -4.0  0.102 -9.000 -9.000 -999.   82.    23.7 0.2930  0.52  1.00  1.00  341.0  15.0 296.9  2.0   0  0.00  71.  997.   2 NAD-SFC NoSubs
11  7  4 185  5   -1.6  0.084 -9.000 -9.000 -999.   58.    31.8 0.2940  0.52  1.00  0.50    6.0  15.0 296.2  2.0   0  0.00  73.  997.   2 NAD-SFC NoSubs
11  7  4 185  6   -0.6  0.053 -9.000 -9.000 -999.   29.    23.8 0.2940  0.52  0.47  0.50   15.0  15.0 296.1  2.0   0  0.00  75.  998.   2 NAD-SFC NoSubs
11  7  4 185  7   38.8  0.201  0.595  0.010  193.  217.    -18.7 0.2930  0.52  0.28  1.50  351.0  15.0 297.0  2.0   0  0.00  67.  998.   2 NAD-SFC NoSubs
11  7  4 185  8   84.4  0.109  0.893  0.008  300.   89.     -1.3 0.2720  0.52  0.22  0.50  329.0  15.0 298.6  2.0   0  0.00  63.  998.   2 NAD-SFC NoSubs
11  7  4 185  9  124.8 -9.000 -9.000 -9.000  423. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 300.8  2.0   0  0.00  55.  997.   2 NAD-SFC NoSubs
11  7  4 185 10  156.9 -9.000 -9.000 -9.000  605. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 302.4  2.0   0  0.00  50.  997.   2 NAD-SFC NoSubs
11  7  4 185 11  179.6 -9.000 -9.000 -9.000  772. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 304.0  2.0   0  0.00  46.  997.   2 NAD-SFC NoSubs
11  7  4 185 12  191.3  0.110  1.704  0.008  921.   88.     -1.0 0.1750  0.52  0.19  0.50  262.0  15.0 305.6  2.0   0  0.00  42.  996.   2 NAD-SFC NoSubs
11  7  4 185 13  192.3  0.122  1.780  0.008 1043.  102.     -1.0 0.2720  0.52  0.19  0.50  304.0  15.0 307.0  2.0   0  0.00  38.  995.   2 NAD-SFC NoSubs
11  7  4 185 14  182.7 -9.000 -9.000 -9.000 1143. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 307.9  2.0   0  0.00  35.  995.   2 NAD-SFC NoSubs
11  7  4 185 15  161.8  0.283  1.773  0.008 1224.  361.    -12.4 0.2470  0.52  0.19  2.10   53.0  15.0 308.4  2.0   0  0.00  34.  995.   2 NAD-SFC NoSubs
11  7  4 185 16  131.0  0.334  1.681  0.008 1286.  464.    -25.3 0.2940  0.52  0.20  2.60   15.0  15.0 308.5  2.0   0  0.00  34.  994.   2 NAD-SFC NoSubs
11  7  4 185 17   91.9  0.278  1.509  0.008 1327.  353.    -20.7 0.2940  0.52  0.22  2.10    8.0  15.0 308.2  2.0   0  0.00  37.  994.   2 NAD-SFC NoSubs
11  7  4 185 18   47.1  0.205  1.213  0.007 1346.  225.    -16.2 0.2930  0.52  0.27  1.50  354.0  15.0 308.2  2.0   0  0.00  42.  995.   2 NAD-SFC NoSubs
11  7  4 185 19    3.1  0.314  0.491  0.007 1346.  422.   -885.1 0.2720  0.52  0.46  3.10  310.0  15.0 307.6  2.0   0  0.00  43.  995.   2 NAD-SFC NoSubs
11  7  4 185 20  -47.3  0.468 -9.000 -9.000 -999.  768.   192.2 0.2160  0.52  1.00  5.10  277.0  15.0 303.9  2.0   0  0.00  54.  996.   2 NAD-SFC NoSubs
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11	7	4	185	21	-38.1	0.373	-9.000	-9.000	-999.	553.	120.7	0.2160	0.52	1.00	4.10	285.0	15.0	300.8	2.0	0	0.00	62.	996.	2	NAD-SFC	NoSubs
11	7	4	185	22	-28.6	0.278	-9.000	-9.000	-999.	357.	67.0	0.2160	0.52	1.00	3.10	294.0	15.0	299.5	2.0	0	0.00	64.	997.	2	NAD-SFC	NoSubs
11	7	4	185	23	-24.4	0.246	-9.000	-9.000	-999.	294.	54.3	0.2720	0.52	1.00	2.60	307.0	15.0	298.9	2.0	0	0.00	63.	997.	2	NAD-SFC	NoSubs
11	7	4	185	24	-25.1	0.252	-9.000	-9.000	-999.	303.	56.7	0.2930	0.52	1.00	2.60	331.0	15.0	298.2	2.0	0	0.00	62.	997.	3	NAD-SFC	NoSubs
11	7	5	186	1	-30.6	0.304	-9.000	-9.000	-999.	402.	81.4	0.2940	0.52	1.00	3.10	16.0	15.0	297.8	2.0	0	0.00	64.	998.	3	NAD-SFC	NoSubs
11	7	5	186	2	-39.0	0.387	-9.000	-9.000	-999.	577.	131.8	0.2470	0.52	1.00	4.10	33.0	15.0	297.2	2.0	0	0.00	66.	998.	3	NAD-SFC	NoSubs
11	7	5	186	3	-41.1	0.406	-9.000	-9.000	-999.	622.	145.3	0.2940	0.52	1.00	4.10	24.0	15.0	296.4	2.0	0	0.00	69.	998.	3	NAD-SFC	NoSubs
11	7	5	186	4	-36.0	0.355	-9.000	-9.000	-999.	509.	110.5	0.2940	0.52	1.00	3.60	22.0	15.0	295.8	2.0	0	0.00	71.	999.	3	NAD-SFC	NoSubs
11	7	5	186	5	-36.1	0.355	-9.000	-9.000	-999.	508.	110.3	0.2940	0.52	1.00	3.60	17.0	15.0	295.2	2.0	0	0.00	72.	999.	3	NAD-SFC	NoSubs
11	7	5	186	6	-6.5	0.260	-9.000	-9.000	-999.	323.	240.4	0.2940	0.52	0.48	2.60	26.0	15.0	295.5	2.0	0	0.00	71.	999.	3	NAD-SFC	NoSubs
11	7	5	186	7	39.7	0.202	0.550	0.011	149.	219.	-18.4	0.2940	0.52	0.28	1.50	23.0	15.0	297.2	2.0	0	0.00	60.	999.	3	NAD-SFC	NoSubs
11	7	5	186	8	84.4	0.110	0.863	0.010	271.	91.	-1.4	0.2940	0.52	0.22	0.50	18.0	15.0	299.1	2.0	0	0.00	54.	999.	2	NAD-SFC	NoSubs
11	7	5	186	9	124.8	-9.000	-9.000	-9.000	387.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	301.2	2.0	0	0.00	47.	999.	2	NAD-SFC	NoSubs
11	7	5	186	10	157.0	-9.000	-9.000	-9.000	541.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.9	2.0	0	0.00	44.	999.	2	NAD-SFC	NoSubs
11	7	5	186	11	179.8	-9.000	-9.000	-9.000	694.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	304.8	2.0	0	0.00	41.	998.	2	NAD-SFC	NoSubs
11	7	5	186	12	191.5	0.115	1.693	0.005	902.	94.	-1.0	0.2160	0.52	0.19	0.50	291.0	15.0	306.2	2.0	0	0.00	38.	997.	2	NAD-SFC	NoSubs
11	7	5	186	13	192.6	0.116	1.799	0.006	1076.	94.	-1.0	0.2160	0.52	0.19	0.50	298.0	15.0	307.5	2.0	0	0.00	36.	996.	2	NAD-SFC	NoSubs
11	7	5	186	14	183.1	0.121	1.845	0.006	1221.	101.	-1.0	0.2720	0.52	0.19	0.50	312.0	15.0	308.5	2.0	0	0.00	34.	996.	2	NAD-SFC	NoSubs
11	7	5	186	15	162.3	0.121	1.827	0.006	1337.	101.	-1.0	0.2930	0.52	0.19	0.50	355.0	15.0	309.2	2.0	0	0.00	32.	995.	2	NAD-SFC	NoSubs
11	7	5	186	16	131.6	-9.000	-9.000	-9.000	1404.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	309.5	2.0	0	0.00	32.	995.	2	NAD-SFC	NoSubs
11	7	5	186	17	92.3	-9.000	-9.000	-9.000	1448.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	309.0	2.0	0	0.00	40.	995.	2	NAD-SFC	NoSubs
11	7	5	186	18	47.2	0.392	1.249	0.005	1468.	589.	-113.5	0.2720	0.52	0.27	3.60	317.0	15.0	308.4	2.0	0	0.00	47.	996.	2	NAD-SFC	NoSubs
11	7	5	186	19	3.4	0.483	0.520	0.005	1463.	806.	-2946.8	0.2160	0.52	0.46	5.10	291.0	15.0	305.6	2.0	0	0.00	52.	996.	3	NAD-SFC	NoSubs
11	7	5	186	20	-42.8	0.420	-9.000	-9.000	-999.	657.	154.2	0.2160	0.52	1.00	4.60	273.0	15.0	302.2	2.0	0	0.00	57.	997.	2	NAD-SFC	NoSubs
11	7	5	186	21	-38.2	0.373	-9.000	-9.000	-999.	548.	120.5	0.2160	0.52	1.00	4.10	281.0	15.0	300.2	2.0	0	0.00	61.	997.	2	NAD-SFC	NoSubs
11	7	5	186	22	-33.4	0.325	-9.000	-9.000	-999.	447.	91.6	0.2160	0.52	1.00	3.60	296.0	15.0	299.2	2.0	0	0.00	62.	997.	2	NAD-SFC	NoSubs
11	7	5	186	23	-30.5	0.304	-9.000	-9.000	-999.	402.	81.8	0.2940	0.52	1.00	3.10	6.0	15.0	298.9	2.0	0	0.00	62.	998.	3	NAD-SFC	NoSubs
11	7	5	186	24	-33.9	0.338	-9.000	-9.000	-999.	471.	100.9	0.2470	0.52	1.00	3.60	34.0	15.0	298.4	2.0	0	0.00	63.	998.	3	NAD-SFC	NoSubs
11	7	6	187	1	-35.8	0.355	-9.000	-9.000	-999.	508.	111.4	0.2940	0.52	1.00	3.60	29.0	15.0	298.0	2.0	0	0.00	64.	999.	3	NAD-SFC	NoSubs
11	7	6	187	2	-35.8	0.355	-9.000	-9.000	-999.	508.	111.2	0.2940	0.52	1.00	3.60	29.0	15.0	297.4	2.0	0	0.00	65.	999.	3	NAD-SFC	NoSubs
11	7	6	187	3	-39.1	0.387	-9.000	-9.000	-999.	577.	131.6	0.2470	0.52	1.00	4.10	34.0	15.0	296.8	2.0	0	0.00	68.	999.	3	NAD-SFC	NoSubs
11	7	6	187	4	-34.3	0.338	-9.000	-9.000	-999.	472.	100.2	0.2470	0.52	1.00	3.60	31.0	15.0	296.2	2.0	0	0.00	68.	1000.	3	NAD-SFC	NoSubs
11	7	6	187	5	-23.2	0.240	-9.000	-9.000	-999.	286.	52.7	0.2470	0.52	1.00	2.60	39.0	15.0	296.0	2.0	0	0.00	67.	1000.	3	NAD-SFC	NoSubs
11	7	6	187	6	-3.6	0.139	-9.000	-9.000	-999.	130.	66.8	0.2470	0.52	0.48	1.50	52.0	15.0	296.0	2.0	0	0.00	67.	1000.	3	NAD-SFC	NoSubs
11	7	6	187	7	39.5	0.147	0.586	0.012	182.	136.	-7.2	0.2470	0.52	0.28	1.00	33.0	15.0	297.5	2.0	0	0.00	57.	1000.	3	NAD-SFC	NoSubs
11	7	6	187	8	84.8	0.102	0.910	0.011	317.	79.	-1.1	0.2090	0.52	0.22	0.50	72.0	15.0	299.2	2.0	0	0.00	53.	1000.	3	NAD-SFC	NoSubs
11	7	6	187	9	125.0	-9.000	-9.000	-9.000	438.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	301.4	2.0	0	0.00	48.	1000.	3	NAD-SFC	NoSubs
11	7	6	187	10	156.8	-9.000	-9.000	-9.000	546.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.9	2.0	0	0.00	44.	999.	2	NAD-SFC	NoSubs
11	7	6	187	11	179.4	0.114	1.483	0.007	648.	93.	-1.0	0.2160	0.52	0.19	0.50	285.0	15.0	304.2	2.0	0	0.00	43.	999.	2	NAD-SFC	NoSubs
11	7	6	187	12	190.9	0.110	1.620	0.006	794.	88.	-1.0	0.1750	0.52	0.19	0.50	257.0	15.0	305.2	2.0	0	0.00	42.	998.	2	NAD-SFC	NoSubs
11	7	6	187	13	191.9	0.115	1.707	0.005	924.	94.	-1.0	0.2160	0.52	0.19	0.50	278.0	15.0	306.5	2.0	0	0.00	41.	998.	2	NAD-SFC	NoSubs
11	7	6	187	14	182.3	0.115	1.766	0.005	1075.	93.	-1.0	0.2160	0.52	0.19	0.50	291.0	15.0	307.6	2.0	0	0.00	38.	997.	3	NAD-SFC	NoSubs
11	7	6	187	15	161.8	0.121	1.769	0.006	1219.	101.	-1.0	0.2930	0.52	0.19	0.50	338.0	15.0	308.4	2.0	0	0.00	36.	997.	3	NAD-SFC	NoSubs
11	7	6	187	16	131.4	0.288	1.696	0.006	1323.	370.	-16.1	0.2940	0.52	0.20	2.10	14.0	15.0	308.8	2.0	0	0.00	36.	997.	3	NAD-SFC	NoSubs
11	7	6	187	17	92.6	0.324	1.530	0.006	1377.	442.	-32.6	0.2940	0.52	0.22	2.60	8.0	15.0	308.4	2.0	0	0.00	43.	997.	3	NAD-SFC	NoSubs
11	7	6	187	18	48.0	0.399	1.236	0.005	1402.	605.	-117.9	0.2930	0.52	0.27	3.60	332.0	15.0	308.0	2.0	0	0.00	49.	997.	3	NAD-SFC	NoSubs
11	7	6	187	19	3.1	0.483	0.494	0.005	1395.	805.	-3277.3	0.2160	0.52	0.46	5.10	295.0	15.0	305.1	2.0	0	0.00	56.	998.	3	NAD-SFC	NoSubs
11	7	6	187	20	-41.8	0.420	-9.000	-9.000	-999.	658.	158.3	0.2160	0.52	1.00	4.60	280.0	15.0	302.0	2.0	0	0.00	61.	998.	3	NAD-SFC	NoSubs
11	7	6	187	21	-37.3	0.373	-9.000	-9.000	-999.	548.	123.8	0.2160	0.52	1.00	4.10	282.0	15.0	300.2	2.0	0	0.00	63.	999.	3	NAD-SFC	NoSubs
11	7	6	187	22	-29.8	0.297	-9.000	-9.000	-999.	391.	78.3	0.2720	0.52	1.00	3.10	305.0	15.0	299.4	2.0	0	0.00	63.	999.	3	NAD-SFC	NoSubs
11	7	6	187	23	-25.1	0.252	-9.000	-9.000	-999.	304.	56.8	0.2930	0.52	1.00	2.60	348.0	15.0	299.2	2.0	0	0.00	61.	999.	3	NAD-SFC	NoSubs
11	7	6	187	24	-38.9	0.387	-9.000	-9.000	-999.	577.	132.4	0.2470	0.52	1.00	4.10	45.0	15.0	298.5	2.0	0	0.00	64.	999.	3	NAD-SFC	NoSubs
11	7	7	188	1	-39.0	0.387	-9.000	-9.000	-999.	577.	132.0	0.2470	0.52	1.00	4.10	44.0	15.0	297.6	2.0	0	0.00	68.	1000.	3	NAD-SFC	NoSubs
11	7	7	188	2	-29.2	0.289	-9.000	-9.000	-999.	378.	73.5	0.2470	0.52	1.00	3.10	35.0	15.0	297.2	2.0	0	0.00	68.	1000.	3	NAD-SFC	NoSubs
11	7	7	188	3	-30.7	0.304	-9.000	-9.000	-999.	402.	81.2	0.2940	0.52	1.00	3.10	29.0	15.0	297.0	2.0	0	0.00	67.	1000.	3	NAD-SFC	NoSubs
11	7	7	188	4	-25.3	0.252	-9.000	-9.000	-999.	305.	56.6	0.2940	0.52	1.00	2.60	27.0	15.0	296.8	2.0	0	0.00	65.	1000.	3	NAD-SFC	NoSubs
11	7	7	188	5	-7.5	0.133	-9.000	-9.000	-999.	125.	28.3	0.2470	0.52	1.00	1.50	34.0	15.0	296.8	2.0	0	0.00	64.	1000.	3	NAD-SFC	NoSubs
11	7	7	188	6	-1.7	0.090	-9.000	-9.000	-999.	65.	37.9	0.2470	0.52	0.48	1.00	32.0	15.0	296.6	2.0	0	0.00	63.	1000.	3	NAD-SFC	NoSubs
11	7	7	188	7	39.0	0.099	0.652	0.008	253.	75.	-2.2	0.2930	0.52	0.28	0.50	347.0	15.0	297.2	2.0	0	0.00	57.	1000.	3	NAD-SFC	NoSubs
11	7	7	188	8	84.3	-9.000	-9.000	-9.000	365.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	298.5	2.0	0	0.00	54.	1000.	3	NAD-SFC	NoSubs
11	7	7	188	9	124.1	-9.000	-9.000	-9.000	517.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	300.0	2.0	0	0.00	51.	1000.	3	NAD-SFC	NoSubs
11	7	7	188	10	156.0	-9.000	-9.000	-9.000	671.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.4	2.0	0	0.00	49.	1000.	3	NAD-SFC	NoSubs
11	7	7	188	11	178.7	-9.000	-9.000	-9.000	852.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.0	2.0	0	0.00	47.	999.	2	NAD-SFC	NoSubs
11	7	7	188	12	190.4	0.123	1.751	0.006	1006.	104.	-1.0	0.2940	0.52	0.19	0.50	11.0	15.0	304.5	2.0	0	0.00	44.	998.	2	NAD-SFC	NoSubs
11	7	7	188	13	191.1	0.124	1.821	0.006	1127.	104.	-1.0	0.2940	0.52	0.19	0.50	19.0	15.0	305.8	2.0	0	0.00	41.	998.	3	NAD-SFC	NoSubs
11	7	7	188	14	181.7	0.185	1.846	0.005	1232.	191.	-3.1	0.2940	0.52	0.19	1.00	7.0	15.0	306.8	2.0	0	0.00	38.	997.	3	NAD-SFC	NoSubs
11	7	7	188	15	161.2	0.235	1.815	0.005	1319.	273.	-7.2	0.2940	0.52	0.19	1.50	10.0	15.0	307.5	2.0	0	0.00	36.	996.	3	NAD-SFC	NoSubs
11	7	7	188	16	130.8	0.287	1.725	0.006	1397.	369.	-16.1	0.2930	0.52	0.20	2.10	359.0	15.0	307.8	2.0	0	0.00	35.	996.	3	NAD-SFC	NoSubs
11	7	7	188	17	92.0	0.278	1.554	0.006	1452.	351.	-20.6	0.2930	0.52	0.22	2.10	340.0	15.0	307.5	2.0	0	0.00	39.	996.	3	NAD-SFC	NoSubs
11	7	7	188	18	47.2	0.347	1.252	0.006	1478.	490.	-78.3	0.2720	0.52	0.27	3.10	305.0	15.0	306.9	2.0	0	0.00	46.	996.	3	NAD-SFC	NoSubs
11	7	7	188	19	2.5	0.436	0.469	0.006	1470.	690.	-2949.5	0.2160	0.52	0.46	4.60	294.0	15.0	304.2	2.0	0	0.00	51.	997.	3	NAD-SFC	NoSubs
11	7	7	188	20	-41.8	0.420	-9.000	-9.000	-999.	654.	157.9	0.2160	0.52	1.00	4.60	276.0	15.0	301.4	2.0	0	0.00	55.	997.	3	NAD-SFC	NoSubs
11	7	7	188	21	-37.3	0.373	-9.000	-9.000	-999.	548.	123.5	0.2160	0.52	1.00	4.10	279.0	15.0	299.4	2.0	0	0.00	60.	997.	3	NAD-SFC	NoSubs
11	7	7	188	22	-37.5	0.373	-9.000	-9.000	-999.	546.	122.7	0.2160	0.52	1.00	4.10	289.0	15.0	297.8	2.0	0	0.00	63.	997.	3	NAD-SFC	NoSubs
11	7	7	188	23	-28.1	0.278	-9.000	-9.000	-999.	357.	68.2	0.2160	0.52	1.00	3.10	278.0	15.0	297.0	2.0	0	0.00	64.	997.	3	NAD-SFC	NoSubs
11	7	7	188	24	-3.2	0.092	-9.000	-9.000	-999.	112.	21.6	0.1750	0.52	1.00	1.00	266.0	15.0	296.6	2.0	0	0.00	63.	997.	3	NAD-SFC	NoSubs
11	7	8	189	1	-3.4	0.095	-9.000	-9.000	-999.	70.	22.3	0.2090	0.52	1.00	1.00	80.0	15.0	296.2	2.0	0	0.00	64.	997.	3	NAD-SFC	NoSubs

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11  7  8 189  2   -3.6  0.098 -9.000 -9.000 -999.   74.     22.9  0.2470  0.52  1.00  1.00  52.0  15.0 295.9  2.0   0  0.00  64.  997.   3 NAD-SFC NoSubs
11  7  8 189  3   -8.1  0.140 -9.000 -9.000 -999.  125.     30.1  0.2930  0.52  1.00  1.50 356.0  15.0 295.2  2.0   0  0.00  65.  998.   3 NAD-SFC NoSubs
11  7  8 189  4  -30.9  0.303 -9.000 -9.000 -999.  401.     80.3  0.2930  0.52  1.00  3.10 336.0  15.0 294.4  2.0   0  0.00  68.  998.   3 NAD-SFC NoSubs
11  7  8 189  5  -15.6  0.196 -9.000 -9.000 -999.  213.     42.6  0.2720  0.52  1.00  2.10 318.0  15.0 293.5  2.0   0  0.00  72.  998.   3 NAD-SFC NoSubs
11  7  8 189  6   -5.1  0.141 -9.000 -9.000 -999.  128.     48.6  0.2720  0.52  0.48  1.50 305.0  15.0 293.8  2.0   0  0.00  71.  998.   2 NAD-SFC NoSubs
11  7  8 189  7   36.8  0.187  0.549  0.011  160.   195.    -15.9  0.2160  0.52  0.28  1.50 280.0  15.0 295.2  2.0   0  0.00  63.  998.   2 NAD-SFC NoSubs
11  7  8 189  8   82.8 -9.000 -9.000 -9.000  263.  -999. -99999.0  0.2235  0.52  0.22  0.00   0.0  15.0 297.4  2.0   0  0.00  56.  998.   2 NAD-SFC NoSubs
11  7  8 189  9  123.3 -9.000 -9.000 -9.000  373.  -999. -99999.0  0.2235  0.52  0.20  0.00   0.0  15.0 299.6  2.0   0  0.00  49.  997.   2 NAD-SFC NoSubs
11  7  8 189 10  155.6 -9.000 -9.000 -9.000  545.  -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 301.2  2.0   0  0.00  46.  997.   2 NAD-SFC NoSubs
11  7  8 189 11  178.6 -9.000 -9.000 -9.000  708.  -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 303.1  2.0   0  0.00  43.  996.   2 NAD-SFC NoSubs
11  7  8 189 12  190.4 -9.000 -9.000 -9.000  856.  -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 304.8  2.0   0  0.00  40.  995.   2 NAD-SFC NoSubs
11  7  8 189 13  191.5  0.121  1.742  0.008  982.   102.    -1.0  0.2720  0.52  0.19  0.50 312.0  15.0 306.0  2.0   0  0.00  37.  995.   2 NAD-SFC NoSubs
11  7  8 189 14  182.0  0.121  1.771  0.008 1085.   101.    -1.0  0.2720  0.52  0.19  0.50 327.0  15.0 307.0  2.0   0  0.00  35.  994.   2 NAD-SFC NoSubs
11  7  8 189 15  161.2  0.235  1.743  0.008 1167.   273.    -7.1  0.2930  0.52  0.19  1.50 355.0  15.0 307.6  2.0   0  0.00  34.  994.   2 NAD-SFC NoSubs
11  7  8 189 16  130.4  0.334  1.654  0.008 1230.   463.   -25.3  0.2930  0.52  0.20  2.60 353.0  15.0 307.8  2.0   0  0.00  34.  993.   2 NAD-SFC NoSubs
11  7  8 189 17   91.3  0.277  1.485  0.008 1272.   352.   -20.7  0.2930  0.52  0.22  2.10 353.0  15.0 307.5  2.0   0  0.00  41.  993.   2 NAD-SFC NoSubs
11  7  8 189 18   47.0  0.373  1.196  0.008 1290.   546.   -97.6  0.2160  0.52  0.27  3.60 296.0  15.0 306.8  2.0   0  0.00  47.  994.   3 NAD-SFC NoSubs
11  7  8 189 19    0.1  0.481  0.166  0.008 1280.   801.  -8888.0  0.2160  0.52  0.46  5.10 279.0  15.0 302.8  2.0   0  0.00  58.  995.   2 NAD-SFC NoSubs
11  7  8 189 20  -45.4  0.443 -9.000 -9.000 -999.   710.    169.8  0.1750  0.52  1.00  5.10 267.0  15.0 299.2  2.0   0  0.00  63.  995.   2 NAD-SFC NoSubs
11  7  8 189 21  -48.4  0.468 -9.000 -9.000 -999.   767.    187.7  0.2160  0.52  1.00  5.10 271.0  15.0 297.0  2.0   0  0.00  66.  996.   2 NAD-SFC NoSubs
11  7  8 189 22  -40.3  0.398 -9.000 -9.000 -999.   607.    138.9  0.1750  0.52  1.00  4.60 268.0  15.0 295.5  2.0   0  0.00  68.  996.   3 NAD-SFC NoSubs
11  7  8 189 23  -21.8  0.231 -9.000 -9.000 -999.   288.     50.0  0.2160  0.52  1.00  2.60 278.0  15.0 294.8  2.0   0  0.00  69.  996.   3 NAD-SFC NoSubs
11  7  8 189 24   -3.9  0.101 -9.000 -9.000 -999.    94.     23.7  0.2940  0.52  1.00  1.00   3.0  15.0 294.6  2.0   0  0.00  69.  997.   3 NAD-SFC NoSubs
11  7  9 190  1   -7.5  0.133 -9.000 -9.000 -999.   117.     28.2  0.2470  0.52  1.00  1.50  33.0  15.0 294.2  2.0   0  0.00  70.  997.   3 NAD-SFC NoSubs
11  7  9 190  2   -8.1  0.140 -9.000 -9.000 -999.   125.     30.0  0.2930  0.52  1.00  1.50 352.0  15.0 293.5  2.0   0  0.00  73.  997.   3 NAD-SFC NoSubs
11  7  9 190  3  -16.2  0.200 -9.000 -9.000 -999.   215.     43.8  0.2930  0.52  1.00  2.10 332.0  15.0 292.8  2.0   0  0.00  76.  997.   3 NAD-SFC NoSubs
11  7  9 190  4   -8.2  0.140 -9.000 -9.000 -999.   126.     29.5  0.2930  0.52  1.00  1.50 340.0  15.0 292.0  2.0   0  0.00  79.  997.   2 NAD-SFC NoSubs
11  7  9 190  5   -4.0  0.102 -9.000 -9.000 -999.    78.     23.6  0.2930  0.52  1.00  1.00 348.0  15.0 291.6  2.0   0  0.00  80.  997.   2 NAD-SFC NoSubs
11  7  9 190  6   -5.4  0.140 -9.000 -9.000 -999.   126.     45.7  0.2720  0.52  0.49  1.50 307.0  15.0 291.9  2.0   0  0.00  77.  998.   2 NAD-SFC NoSubs
11  7  9 190  7   35.8  0.251  0.534  0.011  151.   301.    -39.2  0.2720  0.52  0.28  2.10 301.0  15.0 293.4  2.0   0  0.00  68.  998.   2 NAD-SFC NoSubs
11  7  9 190  8   81.7  0.103  0.832  0.011  251.    98.     -1.2  0.2160  0.52  0.22  0.50 294.0  15.0 295.4  2.0   0  0.00  61.  997.   2 NAD-SFC NoSubs
11  7  9 190  9  122.1 -9.000 -9.000 -9.000  360.  -999. -99999.0  0.2235  0.52  0.20  0.00   0.0  15.0 297.4  2.0   0  0.00  54.  997.   2 NAD-SFC NoSubs
11  7  9 190 10  154.6 -9.000 -9.000 -9.000  507.  -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 299.4  2.0   0  0.00  50.  997.   2 NAD-SFC NoSubs
11  7  9 190 11  177.6 -9.000 -9.000 -9.000  650.  -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 301.4  2.0   0  0.00  45.  997.   2 NAD-SFC NoSubs
11  7  9 190 12  189.5  0.121  1.596  0.010  763.   101.    -1.0  0.2720  0.52  0.19  0.50 315.0  15.0 303.2  2.0   0  0.00  40.  996.   2 NAD-SFC NoSubs
11  7  9 190 13  190.6  0.121  1.666  0.010  862.   102.    -1.0  0.2720  0.52  0.19  0.50 318.0  15.0 304.5  2.0   0  0.00  36.  995.   2 NAD-SFC NoSubs
11  7  9 190 14  181.1  0.185  1.690  0.010  947.   191.    -3.1  0.2930  0.52  0.19  1.00 342.0  15.0 305.5  2.0   0  0.00  34.  995.   2 NAD-SFC NoSubs
11  7  9 190 15  160.3  0.235  1.662  0.010 1019.   273.    -7.2  0.2930  0.52  0.19  1.50 338.0  15.0 306.2  2.0   0  0.00  33.  995.   2 NAD-SFC NoSubs
11  7  9 190 16  129.7  0.334  1.577  0.009 1074.   462.   -25.4  0.2930  0.52  0.20  2.60 346.0  15.0 306.6  2.0   0  0.00  32.  994.   2 NAD-SFC NoSubs
11  7  9 190 17   90.5  0.277  1.414  0.009 1110.   352.   -20.9  0.2930  0.52  0.22  2.10 354.0  15.0 306.2  2.0   0  0.00  40.  994.   2 NAD-SFC NoSubs
11  7  9 190 18   46.3  0.301  1.137  0.009 1127.   397.   -52.4  0.2720  0.52  0.27  2.60 316.0  15.0 305.6  2.0   0  0.00  45.  995.   3 NAD-SFC NoSubs
11  7  9 190 19    1.9  0.435  0.390  0.009 1123.   689. -3915.7  0.2160  0.52  0.46  4.60 276.0  15.0 303.4  2.0   0  0.00  50.  995.   3 NAD-SFC NoSubs
11  7  9 190 20  -54.0  0.525 -9.000 -9.000 -999.   912.    238.1  0.2160  0.52  1.00  5.70 275.0  15.0 298.8  2.0   0  0.00  61.  995.   2 NAD-SFC NoSubs
11  7  9 190 21  -44.8  0.443 -9.000 -9.000 -999.   714.    172.6  0.1750  0.52  1.00  5.10 261.0  15.0 296.2  2.0   0  0.00  66.  996.   3 NAD-SFC NoSubs
11  7  9 190 22  -40.4  0.398 -9.000 -9.000 -999.   605.    138.6  0.1750  0.52  1.00  4.60 264.0  15.0 294.9  2.0   0  0.00  69.  996.   3 NAD-SFC NoSubs
11  7  9 190 23  -33.1  0.325 -9.000 -9.000 -999.   449.     92.4  0.2160  0.52  1.00  3.60 270.0  15.0 294.2  2.0   0  0.00  71.  996.   3 NAD-SFC NoSubs
11  7  9 190 24  -28.4  0.278 -9.000 -9.000 -999.   353.     67.4  0.2160  0.52  1.00  3.10 284.0  15.0 293.8  2.0   0  0.00  72.  996.   3 NAD-SFC NoSubs
11  7 10 191  1   -7.0  0.129 -9.000 -9.000 -999.   128.     26.9  0.2160  0.52  1.00  1.50 295.0  15.0 293.6  2.0   0  0.00  71.  996.   3 NAD-SFC NoSubs
11  7 10 191  2   -3.8  0.100 -9.000 -9.000 -999.    76.     23.3  0.2720  0.52  1.00  1.00 321.0  15.0 293.4  2.0   0  0.00  72.  997.   3 NAD-SFC NoSubs
11  7 10 191  3   -1.6  0.083 -9.000 -9.000 -999.    57.     31.7  0.2930  0.52  1.00  0.50 352.0  15.0 293.2  2.0   0  0.00  73.  997.   3 NAD-SFC NoSubs
11  7 10 191  4   -1.6  0.084 -9.000 -9.000 -999.    58.     32.0  0.2940  0.52  1.00  0.50   4.0  15.0 292.8  2.0   0  0.00  75.  997.   2 NAD-SFC NoSubs
11  7 10 191  5   -1.6  0.084 -9.000 -9.000 -999.    58.     32.0  0.2930  0.52  1.00  0.50 341.0  15.0 292.2  2.0   0  0.00  78.  997.   2 NAD-SFC NoSubs
11  7 10 191  6   -5.7  0.143 -9.000 -9.000 -999.   130.     46.2  0.2930  0.52  0.49  1.50 339.0  15.0 292.0  2.0   0  0.00  79.  998.   2 NAD-SFC NoSubs
11  7 10 191  7   35.4  0.255  0.592  0.008  209.   309.    -41.6  0.2930  0.52  0.29  2.10 355.0  15.0 293.2  2.0   0  0.00  69.  998.   2 NAD-SFC NoSubs
11  7 10 191  8   81.3  0.167  0.903  0.008  322.   167.    -5.1  0.2930  0.52  0.22  1.00 350.0  15.0 295.0  2.0   0  0.00  62.  998.   2 NAD-SFC NoSubs
11  7 10 191  9  121.6 -9.000 -9.000 -9.000  466.  -999. -99999.0  0.2235  0.52  0.20  0.00   0.0  15.0 296.8  2.0   0  0.00  56.  998.   2 NAD-SFC NoSubs
11  7 10 191 10  154.1 -9.000 -9.000 -9.000  628.  -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 298.6  2.0   0  0.00  52.  997.   2 NAD-SFC NoSubs
11  7 10 191 11  176.8 -9.000 -9.000 -9.000  765.  -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 300.1  2.0   0  0.00  49.  997.   2 NAD-SFC NoSubs
11  7 10 191 12  188.6 -9.000 -9.000 -9.000  887.  -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 301.6  2.0   0  0.00  47.  996.   2 NAD-SFC NoSubs
11  7 10 191 13  189.7  0.123  1.740  0.012  987.   104.    -1.0  0.2930  0.52  0.19  0.50 343.0  15.0 303.0  2.0   0  0.00  43.  996.   2 NAD-SFC NoSubs
11  7 10 191 14  180.2  0.238  1.747  0.012 1051.   280.    -6.7  0.2930  0.52  0.19  1.50 355.0  15.0 304.1  2.0   0  0.00  39.  995.   2 NAD-SFC NoSubs
11  7 10 191 15  159.4 -9.000 -9.000 -9.000 1104.  -999. -99999.0  0.2235  0.52  0.19  0.00   0.0  15.0 304.8  2.0   0  0.00  37.  995.   2 NAD-SFC NoSubs
11  7 10 191 16  128.7 -9.000 -9.000 -9.000 1144.  -999. -99999.0  0.2235  0.52  0.20  0.00   0.0  15.0 304.9  2.0   0  0.00  37.  995.   2 NAD-SFC NoSubs
11  7 10 191 17   89.5  0.323  1.434  0.012 1171.   441.    -33.4  0.2940  0.52  0.22  2.60  12.0  15.0 304.6  2.0   0  0.00  43.  995.   2 NAD-SFC NoSubs
11  7 10 191 18   44.2  0.306  1.138  0.011 1183.   406.    -57.2  0.2940  0.52  0.28  2.60   9.0  15.0 304.0  2.0   0  0.00  51.  995.   2 NAD-SFC NoSubs
11  7 10 191 19    1.6  0.318  0.380  0.011 1182.   430.  -1741.4  0.2940  0.52  0.46  3.10   2.0  15.0 303.2  2.0   0  0.00  52.  996.   3 NAD-SFC NoSubs
11  7 10 191 20  -32.3  0.326 -9.000 -9.000 -999.   446.     95.0  0.2160  0.52  1.00  3.60 294.0  15.0 302.0  2.0   0  0.00  54.  996.   3 NAD-SFC NoSubs
11  7 10 191 21  -50.1  0.498 -9.000 -9.000 -999.   843.    218.7  0.1750  0.52  1.00  5.70 264.0  15.0 297.6  2.0   0  0.00  67.  997.   3 NAD-SFC NoSubs
11  7 10 191 22  -40.4  0.398 -9.000 -9.000 -999.   611.    138.8  0.1750  0.52  1.00  4.60 259.0  15.0 295.4  2.0   0  0.00  69.  997.   3 NAD-SFC NoSubs
11  7 10 191 23  -33.2  0.325 -9.000 -9.000 -999.   449.     92.5  0.2160  0.52  1.00  3.60 271.0  15.0 294.5  2.0   0  0.00  71.  998.   3 NAD-SFC NoSubs
11  7 10 191 24  -28.4  0.278 -9.000 -9.000 -999.   353.     67.6  0.2160  0.52  1.00  3.10 294.0  15.0 294.2  2.0   0  0.00  72.  998.   3 NAD-SFC NoSubs
11  7 11 192  1  -24.4  0.246 -9.000 -9.000 -999.   294.     54.6  0.2720  0.52  1.00  2.60 306.0  15.0 294.0  2.0   0  0.00  71.  999.   3 NAD-SFC NoSubs
11  7 11 192  2  -16.2  0.200 -9.000 -9.000 -999.   215.     43.9  0.2930  0.52  1.00  2.10 342.0  15.0 293.5  2.0   0  0.00  73.  999.   3 NAD-SFC NoSubs
11  7 11 192  3  -16.3  0.200 -9.000 -9.000 -999.   215.     43.8  0.2930  0.52  1.00  2.10 351.0  15.0 293.0  2.0   0  0.00  75.  999.   3 NAD-SFC NoSubs
11  7 11 192  4  -16.3  0.200 -9.000 -9.000 -999.   215.     43.8  0.2930  0.52  1.00  2.10 354.0  15.0 292.4  2.0   0  0.00  76. 1000.   3 NAD-SFC NoSubs
11  7 11 192  5  -16.3  0.200 -9.000 -9.000 -999.   215.     43.7  0.2930  0.52  1.00  2.10 341.0  15.0 291.8  2.0   0  0.00  78. 1000.   3 NAD-SFC NoSubs
11  7 11 192  6   -9.0  0.206 -9.000 -9.000 -999.   224.     86.9  0.2930  0.52  0.49  2.10 337.0  15.0 291.4  2.0   0  0.00  79. 1001.   3 NAD-SFC NoSubs
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11  7 11 192  7   35.9  0.255  0.613  0.008  229.  309.    -41.2  0.2930  0.52  0.29   2.10  345.0  15.0  292.5  2.0   0  0.00  70.  1001.   3 NAD-SFC NoSubs
11  7 11 192  8   81.3  0.110  0.927  0.008  350.  104.     -1.5  0.2930  0.52  0.22   0.50  331.0  15.0  293.9  2.0   0  0.00  64.  1001.   3 NAD-SFC NoSubs
11  7 11 192  9  121.3 -9.000 -9.000 -9.000  497. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  295.6  2.0   0  0.00  59.  1001.   3 NAD-SFC NoSubs
11  7 11 192 10  153.4 -9.000 -9.000 -9.000  645. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  297.5  2.0   0  0.00  55.  1001.   3 NAD-SFC NoSubs
11  7 11 192 11  176.2 -9.000 -9.000 -9.000  787. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  299.2  2.0   0  0.00  52.  1000.   2 NAD-SFC NoSubs
11  7 11 192 12  188.0  0.121  1.689  0.008  916.  101.     -1.0  0.2720  0.52  0.19   0.50  314.0  15.0  300.8  2.0   0  0.00  48.  1000.   2 NAD-SFC NoSubs
11  7 11 192 13  189.1  0.121  1.759  0.009 1027.  101.     -1.0  0.2720  0.52  0.19   0.50  328.0  15.0  302.0  2.0   0  0.00  44.   999.   2 NAD-SFC NoSubs
11  7 11 192 14  179.4  0.238  1.779  0.009 1120.  279.     -6.7  0.2930  0.52  0.19   1.50  344.0  15.0  302.9  2.0   0  0.00  41.   999.   3 NAD-SFC NoSubs
11  7 11 192 15  158.7  0.293  1.747  0.010 1198.  381.    -14.1  0.2930  0.52  0.19   2.10  344.0  15.0  303.5  2.0   0  0.00  38.   998.   3 NAD-SFC NoSubs
11  7 11 192 16  128.3  0.380  1.653  0.010 1256.  562.    -38.0  0.2930  0.52  0.20   3.10  342.0  15.0  303.8  2.0   0  0.00  37.   998.   3 NAD-SFC NoSubs
11  7 11 192 17   89.4  0.363  1.481  0.010 1294.  525.    -47.5  0.2720  0.52  0.22   3.10  329.0  15.0  303.4  2.0   0  0.00  41.   998.   3 NAD-SFC NoSubs
11  7 11 192 18   44.4  0.371  1.177  0.010 1310.  543.   -102.9  0.2160  0.52  0.28   3.60  289.0  15.0  302.4  2.0   0  0.00  48.   999.   3 NAD-SFC NoSubs
11  7 11 192 19   -1.3  0.489 -9.000 -9.000 -999.  820.   7790.1  0.2160  0.52  0.46   5.10  274.0  15.0  299.2  2.0   0  0.00  56.   999.   3 NAD-SFC NoSubs
11  7 11 192 20  -50.6  0.498 -9.000 -9.000 -999.  842.    217.2  0.1750  0.52  1.00   5.70  268.0  15.0  295.8  2.0   0  0.00  64.  1000.   3 NAD-SFC NoSubs
11  7 11 192 21  -53.7  0.525 -9.000 -9.000 -999.  913.    240.6  0.2160  0.52  1.00   5.70  270.0  15.0  294.0  2.0   0  0.00  70.  1000.   3 NAD-SFC NoSubs
11  7 11 192 22  -38.3  0.373 -9.000 -9.000 -999.  565.    120.7  0.2160  0.52  1.00   4.10  282.0  15.0  292.9  2.0   0  0.00  74.  1001.   3 NAD-SFC NoSubs
11  7 11 192 23  -28.7  0.278 -9.000 -9.000 -999.  358.     67.1  0.2160  0.52  1.00   3.10  283.0  15.0  292.1  2.0   0  0.00  78.  1001.   3 NAD-SFC NoSubs
11  7 11 192 24  -21.7  0.231 -9.000 -9.000 -999.  267.     50.8  0.2160  0.52  1.00   2.60  296.0  15.0  291.6  2.0   0  0.00  79.  1001.   4 NAD-SFC NoSubs
11  7 12 193  1  -15.5  0.196 -9.000 -9.000 -999.  208.     43.3  0.2720  0.52  1.00   2.10  323.0  15.0  291.4  2.0   0  0.00  78.  1002.   4 NAD-SFC NoSubs
11  7 12 193  2  -16.1  0.200 -9.000 -9.000 -999.  215.     44.7  0.2930  0.52  1.00   2.10  333.0  15.0  291.2  2.0   0  0.00  79.  1002.   4 NAD-SFC NoSubs
11  7 12 193  3  -16.1  0.200 -9.000 -9.000 -999.  215.     44.6  0.2930  0.52  1.00   2.10  333.0  15.0  290.8  2.0   0  0.00  80.  1002.   4 NAD-SFC NoSubs
11  7 12 193  4  -16.1  0.200 -9.000 -9.000 -999.  215.     44.6  0.2930  0.52  1.00   2.10  344.0  15.0  290.2  2.0   0  0.00  82.  1002.   4 NAD-SFC NoSubs
11  7 12 193  5  -16.1  0.200 -9.000 -9.000 -999.  215.     44.5  0.2930  0.52  1.00   2.10  347.0  15.0  289.8  2.0   0  0.00  84.  1002.   4 NAD-SFC NoSubs
11  7 12 193  6    9.4 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.50   0.00    0.0  15.0  289.5  2.0   0  0.00  84.  1003.   4 NAD-SFC NoSubs
11  7 12 193  7   34.9 -9.000 -9.000 -9.000  298. -999. -99999.0  0.2235  0.52  0.29   0.00    0.0  15.0  290.4  2.0   0  0.00  75.  1003.   3 NAD-SFC NoSubs
11  7 12 193  8   80.3  0.110  0.986  0.008  428.   87.     -1.5  0.2930  0.52  0.22   0.50  344.0  15.0  291.8  2.0   0  0.00  70.  1003.   3 NAD-SFC NoSubs
11  7 12 193  9  120.2 -9.000 -9.000 -9.000  561. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  293.2  2.0   0  0.00  65.  1003.   3 NAD-SFC NoSubs
11  7 12 193 10  152.3 -9.000 -9.000 -9.000  691. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  295.0  2.0   0  0.00  61.  1002.   3 NAD-SFC NoSubs
11  7 12 193 11  174.9 -9.000 -9.000 -9.000  803. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  296.8  2.0   0  0.00  57.  1002.   3 NAD-SFC NoSubs
11  7 12 193 12  186.7 -9.000 -9.000 -9.000  908. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  298.6  2.0   0  0.00  53.  1001.   3 NAD-SFC NoSubs
11  7 12 193 13  187.9  0.186  1.740  0.010 1002.  192.     -3.0  0.2930  0.52  0.19   1.00  336.0  15.0  299.8  2.0   0  0.00  49.  1000.   2 NAD-SFC NoSubs
11  7 12 193 14  178.4  0.238  1.755  0.010 1082.  279.     -6.7  0.2930  0.52  0.19   1.50  357.0  15.0  300.8  2.0   0  0.00  48.   999.   2 NAD-SFC NoSubs
11  7 12 193 15  157.5  0.293  1.717  0.011 1147.  381.    -14.2  0.2940  0.52  0.19   2.10   11.0  15.0  301.2  2.0   0  0.00  46.   999.   3 NAD-SFC NoSubs
11  7 12 193 16  127.1  0.333  1.622  0.011 1197.  461.    -25.9  0.2940  0.52  0.20   2.60    6.0  15.0  301.6  2.0   0  0.00  45.   999.   3 NAD-SFC NoSubs
11  7 12 193 17   88.4  0.369  1.450  0.011 1230.  537.    -50.6  0.2940  0.52  0.22   3.10    9.0  15.0  301.5  2.0   0  0.00  47.   999.   3 NAD-SFC NoSubs
11  7 12 193 18   43.6  0.305  1.150  0.011 1245.  407.    -58.1  0.2940  0.52  0.28   2.60   13.0  15.0  301.1  2.0   0  0.00  56.   999.   3 NAD-SFC NoSubs
11  7 12 193 19    0.0  0.315  0.106  0.011 1244.  424.  -8888.0  0.2930  0.52  0.46   3.10  340.0  15.0  300.5  2.0   0  0.00  57.   999.   3 NAD-SFC NoSubs
11  7 12 193 20  -47.2  0.468 -9.000 -9.000 -999.  768.    193.3  0.2160  0.52  1.00   5.10  274.0  15.0  297.8  2.0   0  0.00  64.  1000.   3 NAD-SFC NoSubs
11  7 12 193 21  -60.3  0.589 -9.000 -9.000 -999. 1083.    302.4  0.1750  0.52  1.00   6.70  268.0  15.0  293.9  2.0   0  0.00  68.  1001.   3 NAD-SFC NoSubs
11  7 12 193 22  -48.2  0.468 -9.000 -9.000 -999.  782.    189.6  0.2160  0.52  1.00   5.10  273.0  15.0  292.2  2.0   0  0.00  72.  1001.   3 NAD-SFC NoSubs
11  7 12 193 23  -38.5  0.373 -9.000 -9.000 -999.  554.    120.1  0.2160  0.52  1.00   4.10  282.0  15.0  291.5  2.0   0  0.00  76.  1002.   3 NAD-SFC NoSubs
11  7 12 193 24  -33.7  0.325 -9.000 -9.000 -999.  447.     91.3  0.2160  0.52  1.00   3.60  285.0  15.0  290.8  2.0   0  0.00  80.  1002.   3 NAD-SFC NoSubs
11  7 13 194  1  -21.7  0.231 -9.000 -9.000 -999.  271.     50.6  0.2160  0.52  1.00   2.60  299.0  15.0  290.2  2.0   0  0.00  82.  1002.   4 NAD-SFC NoSubs
11  7 13 194  2  -15.5  0.196 -9.000 -9.000 -999.  208.     43.2  0.2720  0.52  1.00   2.10  329.0  15.0  290.0  2.0   0  0.00  82.  1002.   4 NAD-SFC NoSubs
11  7 13 194  3   -7.8  0.137 -9.000 -9.000 -999.  122.     29.5  0.2720  0.52  1.00   1.50  328.0  15.0  289.8  2.0   0  0.00  82.  1002.   4 NAD-SFC NoSubs
11  7 13 194  4  -15.2  0.196 -9.000 -9.000 -999.  209.     44.4  0.2720  0.52  1.00   2.10  316.0  15.0  289.2  2.0   0  0.00  83.  1002.   5 NAD-SFC NoSubs
11  7 13 194  5  -23.6  0.247 -9.000 -9.000 -999.  294.     57.0  0.2720  0.52  1.00   2.60  319.0  15.0  288.9  2.0   0  0.00  83.  1002.   5 NAD-SFC NoSubs
11  7 13 194  6   -9.4  0.252 -9.000 -9.000 -999.  304.    153.8  0.2720  0.52  0.50   2.60  318.0  15.0  288.9  2.0   0  0.00  83.  1003.   5 NAD-SFC NoSubs
11  7 13 194  7   34.9  0.199  0.596  0.006  217.  214.    -20.2  0.2930  0.52  0.29   1.50  330.0  15.0  289.8  2.0   0  0.00  75.  1003.   4 NAD-SFC NoSubs
11  7 13 194  8   79.3 -9.000 -9.000 -9.000  427. -999. -99999.0  0.2235  0.52  0.22   0.00    0.0  15.0  291.0  2.0   0  0.00  71.  1003.   4 NAD-SFC NoSubs
11  7 13 194  9  119.7 -9.000 -9.000 -9.000  567. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  292.5  2.0   0  0.00  67.  1003.   3 NAD-SFC NoSubs
11  7 13 194 10  151.7 -9.000 -9.000 -9.000  704. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  294.0  2.0   0  0.00  63.  1002.   3 NAD-SFC NoSubs
11  7 13 194 11  174.3 -9.000 -9.000 -9.000  831. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  295.8  2.0   0  0.00  58.  1002.   3 NAD-SFC NoSubs
11  7 13 194 12  186.0 -9.000 -9.000 -9.000  949. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  297.2  2.0   0  0.00  54.  1001.   3 NAD-SFC NoSubs
11  7 13 194 13  187.0 -9.000 -9.000 -9.000 1054. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  298.5  2.0   0  0.00  50.  1000.   3 NAD-SFC NoSubs
11  7 13 194 14  177.6  0.122  1.787  0.009 1146.  102.     -1.0  0.2930  0.52  0.19   0.50  342.0  15.0  299.6  2.0   0  0.00  46.   999.   3 NAD-SFC NoSubs
11  7 13 194 15  157.0  0.234  1.751  0.010 1221.  272.     -7.3  0.2930  0.52  0.19   1.50  357.0  15.0  300.2  2.0   0  0.00  44.   999.   3 NAD-SFC NoSubs
11  7 13 194 16  126.5  0.379  1.654  0.010 1278.  561.    -38.4  0.2930  0.52  0.20   3.10  357.0  15.0  300.4  2.0   0  0.00  44.   999.   3 NAD-SFC NoSubs
11  7 13 194 17   87.6 -9.000 -9.000 -9.000 1315. -999. -99999.0  0.2235  0.52  0.22   0.00    0.0  15.0  300.1  2.0   0  0.00  47.   999.   3 NAD-SFC NoSubs
11  7 13 194 18   42.7 -9.000 -9.000 -9.000 1331. -999. -99999.0  0.2235  0.52  0.28   0.00    0.0  15.0  299.5  2.0   0  0.00  59.   999.   3 NAD-SFC NoSubs
11  7 13 194 19   -0.0  0.428 -9.000 -9.000 -999.  672.   8888.0  0.2930  0.52  0.46   4.10  352.0  15.0  297.8  2.0   0  0.00  67.  1000.   4 NAD-SFC NoSubs
11  7 13 194 20  -39.8  0.406 -9.000 -9.000 -999.  622.    150.4  0.2930  0.52  1.00   4.10  330.0  15.0  295.9  2.0   0  0.00  74.  1000.   4 NAD-SFC NoSubs
11  7 13 194 21  -30.5  0.348 -9.000 -9.000 -999.  495.    123.6  0.2720  0.52  1.00   3.60  318.0  15.0  295.2  2.0   0  0.00  76.  1001.   6 NAD-SFC NoSubs
11  7 13 194 22  -24.1  0.298 -9.000 -9.000 -999.  392.     98.4  0.2720  0.52  1.00   3.10  309.0  15.0  294.8  2.0   0  0.00  77.  1001.   7 NAD-SFC NoSubs
11  7 13 194 23  -30.6  0.348 -9.000 -9.000 -999.  493.    123.0  0.2720  0.52  1.00   3.60  307.0  15.0  293.9  2.0   0  0.00  78.  1002.   6 NAD-SFC NoSubs
11  7 13 194 24  -32.8  0.348 -9.000 -9.000 -999.  492.    114.3  0.2720  0.52  1.00   3.60  308.0  15.0  292.2  2.0   0  0.00  80.  1002.   5 NAD-SFC NoSubs
11  7 14 195  1  -28.2  0.297 -9.000 -9.000 -999.  390.     83.3  0.2720  0.52  1.00   3.10  308.0  15.0  291.0  2.0   0  0.00  80.  1002.   5 NAD-SFC NoSubs
11  7 14 195  2  -26.5  0.298 -9.000 -9.000 -999.  390.     88.8  0.2720  0.52  1.00   3.10  323.0  15.0  290.1  2.0   0  0.00  81.  1002.   6 NAD-SFC NoSubs
11  7 14 195  3  -18.8  0.254 -9.000 -9.000 -999.  308.     77.9  0.2930  0.52  1.00   2.60  334.0  15.0  289.4  2.0   0  0.00  82.  1002.   8 NAD-SFC NoSubs
11  7 14 195  4  -14.0  0.256 -9.000 -9.000 -999.  311.    107.3  0.2930  0.52  1.00   2.60  331.0  15.0  288.9  2.0   0  0.00  83.  1002.  10 NAD-SFC NoSubs
11  7 14 195  5  -14.0  0.256 -9.000 -9.000 -999.  311.    107.1  0.2930  0.52  1.00   2.60  338.0  15.0  288.5  2.0   0  0.00  83.  1002.  10 NAD-SFC NoSubs
11  7 14 195  6  -14.2  0.362 -9.000 -9.000 -999.  522.    298.0  0.2930  0.52  0.50   3.60  353.0  15.0  288.2  2.0   0  0.00  81.  1003.  10 NAD-SFC NoSubs
11  7 14 195  7   32.3  0.298  0.630  0.006  277.  393.    -73.5  0.2930  0.52  0.29   2.60  352.0  15.0  288.8  2.0   0  0.00  74.  1003.   6 NAD-SFC NoSubs
11  7 14 195  8   76.5  0.216  0.958  0.006  411.  244.    -11.8  0.2930  0.52  0.22   1.50  345.0  15.0  289.8  2.0   0  0.00  70.  1003.   5 NAD-SFC NoSubs
11  7 14 195  9  117.6 -9.000 -9.000 -9.000  559. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  290.8  2.0   0  0.00  67.  1003.   4 NAD-SFC NoSubs
11  7 14 195 10  150.8 -9.000 -9.000 -9.000  712. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  292.0  2.0   0  0.00  64.  1003.   3 NAD-SFC NoSubs
11  7 14 195 11  173.4 -9.000 -9.000 -9.000  868. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  293.6  2.0   0  0.00  60.  1002.   3 NAD-SFC NoSubs
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11	7	14	195	12	185.1	-9.000	-9.000	-9.000	999.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.2	2.0	0	0.00	56.	1001.	3	NAD-SFC NoSubs
11	7	14	195	13	186.1	-9.000	-9.000	-9.000	1093.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.6	2.0	0	0.00	51.	1000.	3	NAD-SFC NoSubs
11	7	14	195	14	176.8	-9.000	-9.000	-9.000	1176.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.9	2.0	0	0.00	46.	999.	3	NAD-SFC NoSubs
11	7	14	195	15	156.2	0.234	1.759	0.009	1244.	272.	-7.3	0.2940	0.52	0.19	1.50	4.0	15.0	298.6	2.0	0	0.00	43.	999.	3	NAD-SFC NoSubs
11	7	14	195	16	125.8	0.228	1.660	0.010	1297.	262.	-8.4	0.2940	0.52	0.20	1.50	26.0	15.0	299.1	2.0	0	0.00	49.	998.	3	NAD-SFC NoSubs
11	7	14	195	17	87.0	0.322	1.481	0.010	1331.	439.	-34.2	0.2940	0.52	0.22	2.60	28.0	15.0	299.2	2.0	0	0.00	49.	998.	3	NAD-SFC NoSubs
11	7	14	195	18	42.3	0.249	1.169	0.010	1346.	300.	-32.4	0.2470	0.52	0.28	2.10	37.0	15.0	299.1	2.0	0	0.00	55.	999.	3	NAD-SFC NoSubs
11	7	14	195	19	0.2	0.105	0.204	0.010	1345.	99.	-455.2	0.2930	0.52	0.47	1.00	355.0	15.0	298.8	2.0	0	0.00	56.	999.	4	NAD-SFC NoSubs
11	7	14	195	20	-38.9	0.398	-9.000	-9.000	-999.	603.	144.8	0.1750	0.52	1.00	4.60	261.0	15.0	296.2	2.0	0	0.00	62.	1000.	4	NAD-SFC NoSubs
11	7	14	195	21	-51.9	0.526	-9.000	-9.000	-999.	914.	249.2	0.2160	0.52	1.00	5.70	275.0	15.0	293.0	2.0	0	0.00	69.	1000.	4	NAD-SFC NoSubs
11	7	14	195	22	-44.0	0.443	-9.000	-9.000	-999.	715.	176.7	0.1750	0.52	1.00	5.10	266.0	15.0	291.9	2.0	0	0.00	72.	1000.	4	NAD-SFC NoSubs
11	7	14	195	23	-37.1	0.373	-9.000	-9.000	-999.	550.	124.6	0.2160	0.52	1.00	4.10	276.0	15.0	291.0	2.0	0	0.00	76.	1001.	4	NAD-SFC NoSubs
11	7	14	195	24	-27.8	0.278	-9.000	-9.000	-999.	358.	69.2	0.2160	0.52	1.00	3.10	290.0	15.0	290.0	2.0	0	0.00	80.	1001.	4	NAD-SFC NoSubs
11	7	15	196	1	-29.8	0.297	-9.000	-9.000	-999.	388.	78.5	0.2720	0.52	1.00	3.10	300.0	15.0	289.2	2.0	0	0.00	82.	1001.	4	NAD-SFC NoSubs
11	7	15	196	2	-28.4	0.297	-9.000	-9.000	-999.	389.	82.5	0.2720	0.52	1.00	3.10	314.0	15.0	288.5	2.0	0	0.00	84.	1001.	5	NAD-SFC NoSubs
11	7	15	196	3	-20.5	0.248	-9.000	-9.000	-999.	297.	66.4	0.2720	0.52	1.00	2.60	318.0	15.0	288.0	2.0	0	0.00	85.	1002.	7	NAD-SFC NoSubs
11	7	15	196	4	-13.7	0.250	-9.000	-9.000	-999.	301.	102.2	0.2720	0.52	1.00	2.60	318.0	15.0	287.6	2.0	0	0.00	86.	1002.	10	NAD-SFC NoSubs
11	7	15	196	5	-13.7	0.250	-9.000	-9.000	-999.	301.	102.1	0.2720	0.52	1.00	2.60	304.0	15.0	287.4	2.0	0	0.00	85.	1002.	10	NAD-SFC NoSubs
11	7	15	196	6	-11.5	0.284	-9.000	-9.000	-999.	363.	177.6	0.2160	0.52	0.51	3.10	288.0	15.0	287.2	2.0	0	0.00	84.	1003.	10	NAD-SFC NoSubs
11	7	15	196	7	31.7	0.248	0.565	0.006	203.	297.	-43.2	0.2720	0.52	0.29	2.10	304.0	15.0	287.8	2.0	0	0.00	78.	1003.	6	NAD-SFC NoSubs
11	7	15	196	8	78.1	0.102	0.981	0.007	432.	97.	-1.2	0.2160	0.52	0.22	0.50	296.0	15.0	289.1	2.0	0	0.00	73.	1003.	4	NAD-SFC NoSubs
11	7	15	196	9	118.5	-9.000	-9.000	-9.000	569.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	290.6	2.0	0	0.00	68.	1003.	3	NAD-SFC NoSubs
11	7	15	196	10	150.7	-9.000	-9.000	-9.000	710.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	292.2	2.0	0	0.00	63.	1002.	3	NAD-SFC NoSubs
11	7	15	196	11	173.2	-9.000	-9.000	-9.000	847.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	293.8	2.0	0	0.00	58.	1001.	3	NAD-SFC NoSubs
11	7	15	196	12	184.9	-9.000	-9.000	-9.000	974.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.2	2.0	0	0.00	53.	1000.	3	NAD-SFC NoSubs
11	7	15	196	13	186.0	-9.000	-9.000	-9.000	1098.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.6	2.0	0	0.00	48.	1000.	3	NAD-SFC NoSubs
11	7	15	196	14	176.5	-9.000	-9.000	-9.000	1205.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.6	2.0	0	0.00	45.	999.	3	NAD-SFC NoSubs
11	7	15	196	15	155.9	0.120	1.781	0.011	1292.	100.	-1.0	0.2940	0.52	0.19	0.50	18.0	15.0	298.2	2.0	0	0.00	44.	998.	3	NAD-SFC NoSubs
11	7	15	196	16	125.4	0.228	1.681	0.011	1350.	262.	-8.4	0.2940	0.52	0.20	1.50	18.0	15.0	298.8	2.0	0	0.00	43.	998.	3	NAD-SFC NoSubs
11	7	15	196	17	86.6	0.322	1.495	0.011	1375.	439.	-34.3	0.2940	0.52	0.22	2.60	18.0	15.0	298.8	2.0	0	0.00	44.	998.	3	NAD-SFC NoSubs
11	7	15	196	18	41.7	0.293	1.175	0.011	1386.	381.	-53.5	0.2470	0.52	0.28	2.60	31.0	15.0	298.2	2.0	0	0.00	53.	998.	3	NAD-SFC NoSubs
11	7	15	196	19	-4.4	0.317	-9.000	-9.000	-999.	427.	648.7	0.2940	0.52	0.47	3.10	12.0	15.0	297.6	2.0	0	0.00	56.	999.	3	NAD-SFC NoSubs
11	7	15	196	20	-36.5	0.373	-9.000	-9.000	-999.	547.	126.8	0.2160	0.52	1.00	4.10	294.0	15.0	295.9	2.0	0	0.00	62.	999.	4	NAD-SFC NoSubs
11	7	15	196	21	-46.9	0.498	-9.000	-9.000	-999.	844.	235.5	0.1750	0.52	1.00	5.70	269.0	15.0	292.8	2.0	0	0.00	73.	1000.	5	NAD-SFC NoSubs
11	7	15	196	22	-41.6	0.469	-9.000	-9.000	-999.	772.	221.4	0.2160	0.52	1.00	5.10	283.0	15.0	291.2	2.0	0	0.00	77.	1000.	6	NAD-SFC NoSubs
11	7	15	196	23	-29.0	0.326	-9.000	-9.000	-999.	463.	106.9	0.2160	0.52	1.00	3.60	292.0	15.0	290.4	2.0	0	0.00	81.	1001.	6	NAD-SFC NoSubs
11	7	15	196	24	-26.6	0.279	-9.000	-9.000	-999.	355.	72.8	0.2160	0.52	1.00	3.10	296.0	15.0	289.4	2.0	0	0.00	84.	1001.	5	NAD-SFC NoSubs
11	7	16	197	1	-23.6	0.247	-9.000	-9.000	-999.	295.	57.0	0.2720	0.52	1.00	2.60	306.0	15.0	288.8	2.0	0	0.00	85.	1001.	5	NAD-SFC NoSubs
11	7	16	197	2	-23.6	0.247	-9.000	-9.000	-999.	294.	56.8	0.2720	0.52	1.00	2.60	310.0	15.0	288.1	2.0	0	0.00	86.	1001.	5	NAD-SFC NoSubs
11	7	16	197	3	-14.8	0.197	-9.000	-9.000	-999.	210.	46.0	0.2720	0.52	1.00	2.10	320.0	15.0	287.6	2.0	0	0.00	87.	1002.	6	NAD-SFC NoSubs
11	7	16	197	4	-14.2	0.197	-9.000	-9.000	-999.	210.	48.2	0.2720	0.52	1.00	2.10	316.0	15.0	287.2	2.0	0	0.00	87.	1002.	7	NAD-SFC NoSubs
11	7	16	197	5	-23.7	0.247	-9.000	-9.000	-999.	294.	56.6	0.2720	0.52	1.00	2.60	324.0	15.0	287.0	2.0	0	0.00	86.	1002.	5	NAD-SFC NoSubs
11	7	16	197	6	-15.5	0.301	-9.000	-9.000	-999.	397.	157.8	0.2720	0.52	0.51	3.10	310.0	15.0	287.1	2.0	0	0.00	84.	1003.	4	NAD-SFC NoSubs
11	7	16	197	7	33.1	0.294	0.613	0.006	248.	382.	-68.5	0.2720	0.52	0.29	2.60	315.0	15.0	287.4	2.0	0	0.00	81.	1003.	4	NAD-SFC NoSubs
11	7	16	197	8	77.8	0.213	1.002	0.006	463.	238.	-11.1	0.2720	0.52	0.22	1.50	310.0	15.0	287.8	2.0	0	0.00	78.	1003.	3	NAD-SFC NoSubs
11	7	16	197	9	117.7	-9.000	-9.000	-9.000	598.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	288.4	2.0	0	0.00	75.	1003.	3	NAD-SFC NoSubs
11	7	16	197	10	150.0	-9.000	-9.000	-9.000	748.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	290.9	2.0	0	0.00	68.	1003.	2	NAD-SFC NoSubs
11	7	16	197	11	173.0	-9.000	-9.000	-9.000	899.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	293.2	2.0	0	0.00	61.	1002.	2	NAD-SFC NoSubs
11	7	16	197	12	184.9	-9.000	-9.000	-9.000	1012.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.9	2.0	0	0.00	54.	1001.	2	NAD-SFC NoSubs
11	7	16	197	13	186.0	-9.000	-9.000	-9.000	1090.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.4	2.0	0	0.00	49.	1000.	2	NAD-SFC NoSubs
11	7	16	197	14	176.6	-9.000	-9.000	-9.000	1159.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.8	2.0	0	0.00	45.	999.	2	NAD-SFC NoSubs
11	7	16	197	15	155.9	-9.000	-9.000	-9.000	1217.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.6	2.0	0	0.00	42.	999.	2	NAD-SFC NoSubs
11	7	16	197	16	125.1	0.177	1.642	0.010	1262.	178.	-3.9	0.2940	0.52	0.20	1.00	12.0	15.0	299.1	2.0	0	0.00	40.	998.	2	NAD-SFC NoSubs
11	7	16	197	17	85.9	0.276	1.460	0.010	1291.	348.	-21.7	0.2940	0.52	0.22	2.10	23.0	15.0	299.1	2.0	0	0.00	41.	998.	2	NAD-SFC NoSubs
11	7	16	197	18	41.6	0.293	1.151	0.010	1305.	380.	-53.6	0.2470	0.52	0.28	2.60	31.0	15.0	298.6	2.0	0	0.00	50.	998.	3	NAD-SFC NoSubs
11	7	16	197	19	-4.8	0.316	-9.000	-9.000	-999.	426.	586.5	0.2940	0.52	0.47	3.10	18.0	15.0	297.8	2.0	0	0.00	53.	999.	3	NAD-SFC NoSubs
11	7	16	197	20	-33.0	0.326	-9.000	-9.000	-999.	446.	93.2	0.2160	0.52	1.00	3.60	296.0	15.0	296.4	2.0	0	0.00	57.	999.	3	NAD-SFC NoSubs
11	7	16	197	21	-51.1	0.498	-9.000	-9.000	-999.	842.	214.7	0.1750	0.52	1.00	5.70	266.0	15.0	292.4	2.0	0	0.00	72.	1000.	3	NAD-SFC NoSubs
11	7	16	197	22	-45.8	0.443	-9.000	-9.000	-999.	711.	169.1	0.1750	0.52	1.00	5.10	269.0	15.0	290.5	2.0	0	0.00	77.	1000.	3	NAD-SFC NoSubs
11	7	16	197	23	-38.7	0.373	-9.000	-9.000	-999.	550.	119.3	0.2160	0.52	1.00	4.10	275.0	15.0	289.8	2.0	0	0.00	80.	1000.	3	NAD-SFC NoSubs
11	7	16	197	24	-33.8	0.325	-9.000	-9.000	-999.	447.	90.7	0.2160	0.52	1.00	3.60	277.0	15.0	289.0	2.0	0	0.00	83.	1000.	3	NAD-SFC NoSubs
11	7	17	198	1	-22.2	0.231	-9.000	-9.000	-999.	270.	49.4	0.2160	0.52	1.00	2.60	296.0	15.0	288.8	2.0	0	0.00	84.	1001.	3	NAD-SFC NoSubs
11	7	17	198	2	-24.6	0.246	-9.000	-9.000	-999.	293.	54.0	0.2720	0.52	1.00	2.60	308.0	15.0	288.8	2.0	0	0.00	84.	1001.	3	NAD-SFC NoSubs
11	7	17	198	3	-8.2	0.140	-9.000	-9.000	-999.	131.	29.7	0.2930	0.52	1.00	1.50	330.0	15.0	288.4	2.0	0	0.00	86.	1001.	3	NAD-SFC NoSubs
11	7	17	198	4	-4.0	0.102	-9.000	-9.000	-999.	78.	23.6	0.2930	0.52	1.00	1.00	339.0	15.0	287.9	2.0	0	0.00	88.	1002.	3	NAD-SFC NoSubs
11	7	17	198	5	-1.7	0.085	-9.000	-9.000	-999.	59.	32.1	0.2930	0.52	1.00	0.50	351.0	15.0	287.5	2.0	0	0.00	91.	1002.	2	NAD-SFC NoSubs
11	7	17	198	6	-2.9	0.094	-9.000	-9.000	-999.	70.	25.8	0.2940	0.52	0.51	1.00	3.0	15.0	287.2	2.0	0	0.00	92.	1002.	2	NAD-SFC NoSubs
11	7	17	198	7	31.3	0.197	0.590	0.008	233.	210.	-21.8	0.2930	0.52	0.29	1.50	355.0	15.0	288.8	2.0	0	0.00	82.	1002.	2	NAD-SFC NoSubs
11	7	17	198	8	77.4	0.109	0.916	0.007	356.	89.	-1.5	0.2930	0.52	0.22	0.50	341.0	15.0	290.2	2.0	0	0.00	75.	1002.	2	NAD-SFC NoSubs
11	7	17	198	9	118.0	-9.000	-9.000	-9.000	502.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	292.0	2.0	0	0.00	69.	1002.	2	NAD-SFC NoSubs
11	7	17	198	10	150.6	-9.000	-9.000	-9.000	648.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	293.8	2.0	0	0.00	63.	1001.	2	NAD-SFC NoSubs
11	7	17	198	11	173.6	-9.000	-9.000	-9.000	800.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.4	2.0	0	0.00	58.	1001.	2	NAD-SFC NoSubs
11	7	17	198	12	185.6	-9.000	-9.000	-9.000	939.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.1	2.0	0	0.00	51.	1000.	2	NAD-SFC NoSubs
11	7	17	198	13	186.8	0.121	1.748	0.014	1021.	101.	-1.0	0.2720	0.52	0.19	0.50	326.0	15.0	298.6	2.0	0	0.00	44.	999.	2	NAD-SFC NoSubs
11	7	17	198	14	177.3	0.184	1.751	0.014	1082.	190.	-3.1	0.2930	0.52	0.19	1.00	355.0	15.0	299.6	2.0	0	0.00	41.	999.	2	NAD-SFC NoSubs
11	7	17	198	15	156.4	-9.000	-9.000	-9.000	1132.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.2	2.0	0	0.00	39.	999.	2	NAD-SFC NoSubs
11	7	17	198	16	125.6	0.286	1.604	0.015	1171.	368.	-16.6	0.2940	0.52	0.20	2.10	7.0	15.0	300.6	2.0	0	0.00	38.	998.	2	NAD-SFC NoSubs

11	7	17	198	17	86.4	0.322	1.426	0.015	1197.	438.	-34.4	0.2940	0.52	0.22	2.60	16.0	15.0	300.6	2.0	0	0.00	40.	998.	2	NAD-SFC	NoSubs
11	7	17	198	18	40.9	0.304	1.116	0.015	1208.	402.	-61.0	0.2940	0.52	0.28	2.60	26.0	15.0	300.1	2.0	0	0.00	49.	998.	2	NAD-SFC	NoSubs
11	7	17	198	19	-6.6	0.298	-9.000	-9.000	-999.	391.	358.5	0.2470	0.52	0.47	3.10	35.0	15.0	299.2	2.0	0	0.00	50.	999.	2	NAD-SFC	NoSubs
11	7	17	198	20	-8.0	0.140	-9.000	-9.000	-999.	146.	30.2	0.2930	0.52	1.00	1.50	352.0	15.0	298.2	2.0	0	0.00	53.	999.	3	NAD-SFC	NoSubs
11	7	17	198	21	-47.6	0.468	-9.000	-9.000	-999.	768.	191.7	0.2160	0.52	1.00	5.10	282.0	15.0	295.4	2.0	0	0.00	62.	1000.	3	NAD-SFC	NoSubs
11	7	17	198	22	-48.1	0.468	-9.000	-9.000	-999.	768.	189.4	0.2160	0.52	1.00	5.10	270.0	15.0	292.0	2.0	0	0.00	71.	1000.	3	NAD-SFC	NoSubs
11	7	17	198	23	-43.4	0.420	-9.000	-9.000	-999.	655.	152.2	0.2160	0.52	1.00	4.60	278.0	15.0	290.9	2.0	0	0.00	73.	1001.	3	NAD-SFC	NoSubs
11	7	17	198	24	-36.0	0.347	-9.000	-9.000	-999.	494.	103.6	0.2720	0.52	1.00	3.60	303.0	15.0	290.2	2.0	0	0.00	75.	1001.	3	NAD-SFC	NoSubs
11	7	18	199	1	-31.6	0.296	-9.000	-9.000	-999.	389.	73.6	0.2720	0.52	1.00	3.10	313.0	15.0	289.9	2.0	0	0.00	77.	1001.	2	NAD-SFC	NoSubs
11	7	18	199	2	-32.3	0.303	-9.000	-9.000	-999.	400.	76.9	0.2930	0.52	1.00	3.10	332.0	15.0	289.8	2.0	0	0.00	78.	1002.	2	NAD-SFC	NoSubs
11	7	18	199	3	-25.9	0.251	-9.000	-9.000	-999.	304.	54.9	0.2930	0.52	1.00	2.60	342.0	15.0	289.2	2.0	0	0.00	80.	1002.	2	NAD-SFC	NoSubs
11	7	18	199	4	-8.3	0.140	-9.000	-9.000	-999.	132.	29.4	0.2940	0.52	1.00	1.50	1.0	15.0	288.8	2.0	0	0.00	83.	1002.	2	NAD-SFC	NoSubs
11	7	18	199	5	-8.3	0.140	-9.000	-9.000	-999.	126.	29.4	0.2940	0.52	1.00	1.50	14.0	15.0	288.2	2.0	0	0.00	86.	1002.	2	NAD-SFC	NoSubs
11	7	18	199	6	-2.9	0.095	-9.000	-9.000	-999.	70.	25.7	0.2940	0.52	0.52	1.00	17.0	15.0	287.9	2.0	0	0.00	87.	1003.	2	NAD-SFC	NoSubs
11	7	18	199	7	31.0	0.149	0.549	0.010	190.	138.	-9.6	0.2940	0.52	0.29	1.00	6.0	15.0	289.2	2.0	0	0.00	77.	1003.	2	NAD-SFC	NoSubs
11	7	18	199	8	77.3	-9.000	-9.000	-9.000	309.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	291.2	2.0	0	0.00	67.	1003.	2	NAD-SFC	NoSubs
11	7	18	199	9	118.1	-9.000	-9.000	-9.000	434.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	293.1	2.0	0	0.00	61.	1003.	2	NAD-SFC	NoSubs
11	7	18	199	10	150.9	-9.000	-9.000	-9.000	564.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.1	2.0	0	0.00	55.	1002.	2	NAD-SFC	NoSubs
11	7	18	199	11	174.0	-9.000	-9.000	-9.000	691.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.9	2.0	0	0.00	50.	1002.	2	NAD-SFC	NoSubs
11	7	18	199	12	186.0	-9.000	-9.000	-9.000	829.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.6	2.0	0	0.00	46.	1001.	2	NAD-SFC	NoSubs
11	7	18	199	13	187.3	-9.000	-9.000	-9.000	948.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.1	2.0	0	0.00	42.	1000.	2	NAD-SFC	NoSubs
11	7	18	199	14	177.8	0.184	1.717	0.013	1016.	190.	-3.1	0.2930	0.52	0.19	1.00	345.0	15.0	301.2	2.0	0	0.00	39.	1000.	2	NAD-SFC	NoSubs
11	7	18	199	15	157.0	0.234	1.673	0.013	1065.	272.	-7.3	0.2930	0.52	0.19	1.50	355.0	15.0	301.9	2.0	0	0.00	37.	1000.	2	NAD-SFC	NoSubs
11	7	18	199	16	126.2	0.228	1.574	0.013	1102.	262.	-8.4	0.2940	0.52	0.20	1.50	3.0	15.0	302.2	2.0	0	0.00	36.	999.	2	NAD-SFC	NoSubs
11	7	18	199	17	86.8	0.322	1.400	0.013	1126.	439.	-34.3	0.2940	0.52	0.22	2.60	12.0	15.0	302.1	2.0	0	0.00	38.	999.	2	NAD-SFC	NoSubs
11	7	18	199	18	41.3	0.304	1.096	0.013	1137.	402.	-60.6	0.2940	0.52	0.28	2.60	24.0	15.0	301.5	2.0	0	0.00	48.	999.	2	NAD-SFC	NoSubs
11	7	18	199	19	-6.3	0.314	-9.000	-9.000	-999.	423.	437.3	0.2940	0.52	0.47	3.10	14.0	15.0	300.6	2.0	0	0.00	50.	1000.	2	NAD-SFC	NoSubs
11	7	18	199	20	-30.6	0.297	-9.000	-9.000	-999.	388.	76.2	0.2720	0.52	1.00	3.10	324.0	15.0	299.4	2.0	0	0.00	53.	1000.	2	NAD-SFC	NoSubs
11	7	18	199	21	-48.8	0.468	-9.000	-9.000	-999.	767.	186.8	0.2160	0.52	1.00	5.10	271.0	15.0	295.6	2.0	0	0.00	65.	1001.	2	NAD-SFC	NoSubs
11	7	18	199	22	-48.0	0.468	-9.000	-9.000	-999.	768.	190.3	0.2160	0.52	1.00	5.10	275.0	15.0	293.2	2.0	0	0.00	72.	1001.	3	NAD-SFC	NoSubs
11	7	18	199	23	-33.5	0.325	-9.000	-9.000	-999.	461.	91.8	0.2160	0.52	1.00	3.60	287.0	15.0	292.2	2.0	0	0.00	75.	1002.	3	NAD-SFC	NoSubs
11	7	18	199	24	-30.6	0.297	-9.000	-9.000	-999.	388.	76.3	0.2720	0.52	1.00	3.10	317.0	15.0	292.1	2.0	0	0.00	76.	1002.	3	NAD-SFC	NoSubs
11	7	19	200	1	-31.3	0.303	-9.000	-9.000	-999.	401.	79.6	0.2930	0.52	1.00	3.10	354.0	15.0	291.8	2.0	0	0.00	79.	1002.	3	NAD-SFC	NoSubs
11	7	19	200	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	291.1	2.0	0	0.00	84.	1002.	3	NAD-SFC	NoSubs
11	7	19	200	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	290.4	2.0	0	0.00	88.	1003.	2	NAD-SFC	NoSubs
11	7	19	200	4	-4.0	0.102	-9.000	-9.000	-999.	79.	23.6	0.2930	0.52	1.00	1.00	357.0	15.0	289.8	2.0	0	0.00	90.	1003.	2	NAD-SFC	NoSubs
11	7	19	200	5	-1.7	0.084	-9.000	-9.000	-999.	59.	32.1	0.2940	0.52	1.00	0.50	15.0	15.0	289.1	2.0	0	0.00	92.	1003.	2	NAD-SFC	NoSubs
11	7	19	200	6	14.6	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.52	0.00	0.0	15.0	288.8	2.0	0	0.00	93.	1003.	2	NAD-SFC	NoSubs
11	7	19	200	7	30.8	0.197	0.584	0.011	231.	209.	-22.1	0.2940	0.52	0.29	1.50	12.0	15.0	289.9	2.0	0	0.00	83.	1003.	2	NAD-SFC	NoSubs
11	7	19	200	8	77.1	0.109	0.877	0.010	313.	89.	-1.5	0.2940	0.52	0.22	0.50	3.0	15.0	291.8	2.0	0	0.00	75.	1003.	2	NAD-SFC	NoSubs
11	7	19	200	9	117.9	-9.000	-9.000	-9.000	418.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	293.4	2.0	0	0.00	68.	1003.	2	NAD-SFC	NoSubs
11	7	19	200	10	150.8	-9.000	-9.000	-9.000	561.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.6	2.0	0	0.00	60.	1002.	2	NAD-SFC	NoSubs
11	7	19	200	11	174.0	-9.000	-9.000	-9.000	691.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.5	2.0	0	0.00	53.	1001.	2	NAD-SFC	NoSubs
11	7	19	200	12	186.1	0.121	1.613	0.011	806.	101.	-1.0	0.2720	0.52	0.19	0.50	326.0	15.0	299.2	2.0	0	0.00	49.	1001.	2	NAD-SFC	NoSubs
11	7	19	200	13	187.4	0.186	1.683	0.012	909.	192.	-3.0	0.2930	0.52	0.19	1.00	336.0	15.0	300.8	2.0	0	0.00	45.	1000.	2	NAD-SFC	NoSubs
11	7	19	200	14	177.9	0.238	1.703	0.012	992.	279.	-6.8	0.2930	0.52	0.19	1.50	350.0	15.0	301.8	2.0	0	0.00	42.	1000.	2	NAD-SFC	NoSubs
11	7	19	200	15	157.0	0.340	1.665	0.012	1049.	476.	-22.3	0.2930	0.52	0.19	2.60	355.0	15.0	302.2	2.0	0	0.00	41.	999.	2	NAD-SFC	NoSubs
11	7	19	200	16	126.0	0.425	1.568	0.012	1092.	664.	-54.2	0.2930	0.52	0.20	3.60	351.0	15.0	302.2	2.0	0	0.00	50.	999.	2	NAD-SFC	NoSubs
11	7	19	200	17	86.6	0.413	1.396	0.012	1121.	638.	-72.7	0.2930	0.52	0.22	3.60	348.0	15.0	302.0	2.0	0	0.00	52.	999.	2	NAD-SFC	NoSubs
11	7	19	200	18	41.1	0.304	1.093	0.012	1134.	409.	-60.7	0.2930	0.52	0.28	2.60	351.0	15.0	301.8	2.0	0	0.00	60.	999.	2	NAD-SFC	NoSubs
11	7	19	200	19	-6.8	0.313	-9.000	-9.000	-999.	421.	402.0	0.2930	0.52	0.48	3.10	338.0	15.0	300.8	2.0	0	0.00	61.	999.	2	NAD-SFC	NoSubs
11	7	19	200	20	-35.7	0.347	-9.000	-9.000	-999.	490.	104.2	0.2720	0.52	1.00	3.60	327.0	15.0	299.8	2.0	0	0.00	63.	999.	2	NAD-SFC	NoSubs
11	7	19	200	21	-34.9	0.347	-9.000	-9.000	-999.	491.	106.6	0.2720	0.52	1.00	3.60	320.0	15.0	298.5	2.0	0	0.00	68.	1000.	3	NAD-SFC	NoSubs
11	7	19	200	22	-35.1	0.347	-9.000	-9.000	-999.	491.	106.2	0.2720	0.52	1.00	3.60	306.0	15.0	297.2	2.0	0	0.00	72.	1000.	3	NAD-SFC	NoSubs
11	7	19	200	23	-30.1	0.297	-9.000	-9.000	-999.	389.	77.5	0.2720	0.52	1.00	3.10	304.0	15.0	296.5	2.0	0	0.00	75.	1000.	3	NAD-SFC	NoSubs
11	7	19	200	24	-21.9	0.231	-9.000	-9.000	-999.	268.	50.1	0.2160	0.52	1.00	2.60	294.0	15.0	295.8	2.0	0	0.00	78.	999.	3	NAD-SFC	NoSubs
11	7	20	201	1	-15.6	0.196	-9.000	-9.000	-999.	208.	42.7	0.2720	0.52	1.00	2.10	301.0	15.0	295.0	2.0	0	0.00	80.	1000.	3	NAD-SFC	NoSubs
11	7	20	201	2	-15.6	0.196	-9.000	-9.000	-999.	208.	42.7	0.2720	0.52	1.00	2.10	308.0	15.0	294.5	2.0	0	0.00	81.	1000.	3	NAD-SFC	NoSubs
11	7	20	201	3	-25.3	0.252	-9.000	-9.000	-999.	303.	56.2	0.2930	0.52	1.00	2.60	330.0	15.0	294.0	2.0	0	0.00	83.	1000.	3	NAD-SFC	NoSubs
11	7	20	201	4	-25.3	0.252	-9.000	-9.000	-999.	303.	56.2	0.2930	0.52	1.00	2.60	342.0	15.0	293.4	2.0	0	0.00	86.	1000.	3	NAD-SFC	NoSubs
11	7	20	201	5	-25.4	0.252	-9.000	-9.000	-999.	304.	56.2	0.2940	0.52	1.00	2.60	5.0	15.0	292.8	2.0	0	0.00	89.	1000.	3	NAD-SFC	NoSubs
11	7	20	201	6	-12.1	0.204	-9.000	-9.000	-999.	222.	62.7	0.2930	0.52	0.53	2.10	360.0	15.0	292.4	2.0	0	0.00	89.	1001.	3	NAD-SFC	NoSubs
11	7	20	201	7	32.7	0.299	0.539	0.005	171.	392.	-72.8	0.2930	0.52	0.30	2.60	353.0	15.0	293.6	2.0	0	0.00	76.	1002.	3	NAD-SFC	NoSubs
11	7	20	201	8	78.6	0.166	0.906	0.006	338.	173.	-5.2	0.2930	0.52	0.22	1.00	342.0	15.0	295.2	2.0	0	0.00	69.	1001.	3	NAD-SFC	NoSubs
11	7	20	201	9	118.8	-9.000	-9.000	-9.000	539.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.9	2.0	0	0.00	63.	1001.	2	NAD-SFC	NoSubs
11	7	20	201	10	151.6	-9.000	-9.000	-9.000	735.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.4	2.0	0	0.00	58.	1001.	2	NAD-SFC	NoSubs
11	7	20	201	11	174.9	-9.000	-9.000	-9.000	912.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.1	2.0	0	0.00	53.	1000.	2	NAD-SFC	NoSubs
11	7	20	201	12	186.9	0.115	1.747	0.012	1019.	94.	-1.0	0.2160	0.52	0.19	0.50	290.0	15.0	301.4	2.0	0	0.00	49.	999.	2	NAD-SFC	NoSubs
11	7	20	201	13	188.1	-9.000	-9.000	-9.000	1088.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.5	2.0	0	0.00	46.	999.	2	NAD-SFC	NoSubs
11	7	20	201	14	178.6	-9.000	-9.000	-9.000	1151.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.4	2.0	0	0.00	44.	998.	2	NAD-SFC	NoSubs
11	7	20	201	15	157.8	0.120	1.747	0.012	1204.	100.	-1.0	0.2940	0.52	0.19	0.50	16.0	15.0	304.2	2.0	0	0.00	41.	998.	2	NAD-SFC	NoSubs
11	7	20	201	16	127.0	0.229	1.644	0.012	1245.	262.	-8.4	0.2940	0.52	0.20	1.50	22.0	15.0	304.6	2.0	0	0.00	40.	997.	2	NAD-SFC	NoSubs
11	7	20	201	17	87.6	0.322	1.462	0.012	1272.	439.	-34.0	0.2940	0.52	0.22	2.60	27.0	15.0	304.5	2.0	0	0.00	41.	997.	2	NAD-SFC	NoSubs
11	7	20	201	18	41.9	0.293	1.148	0.012	1284.	381.	-53.3	0.2470	0.52	0.28	2.60	44.0	15.0	304.0	2.0	0	0.00	51.	997.	2	NAD-SFC	NoSubs
11	7	20	201	19	-0.5	0.153	-9.000	-9.000	-999.	157.	629.7	0.2940	0.52	0.48	1.50	3.0	15.0	303.4	2.0	0	0.00	53.	998.	3	NAD-SFC	NoSubs
11	7	20	201	20	-46.7	0.468	-9.000	-9.000	-999.	768.	195.3	0.2160	0.52	1.00	5.10	274.0	15.0	300.8	2.0	0	0.00	60.	998.	3	NAD-SFC	NoSubs
11	7	20	201	21	-53.2	0.525	-9.000	-9.000	-999.	913.	242.5	0.2160	0.52	1.00	5.70	275.0	15.0	296.2	2.0	0	0.00	70.	998.	3	NAD-SFC	NoSubs

11	7	20	201	22	-40.5	0.398	-9.000	-9.000	-999.	616.	138.5	0.1750	0.52	1.00	4.60	261.0	15.0	294.8	2.0	0	0.00	72.	998.	3	NAD-SFC NoSubs
11	7	20	201	23	-38.1	0.373	-9.000	-9.000	-999.	547.	121.0	0.2160	0.52	1.00	4.10	275.0	15.0	293.8	2.0	0	0.00	75.	998.	3	NAD-SFC NoSubs
11	7	20	201	24	-28.5	0.278	-9.000	-9.000	-999.	357.	67.3	0.2160	0.52	1.00	3.10	284.0	15.0	293.0	2.0	0	0.00	77.	998.	3	NAD-SFC NoSubs
11	7	21	202	1	-14.1	0.183	-9.000	-9.000	-999.	192.	38.8	0.2160	0.52	1.00	2.10	298.0	15.0	292.5	2.0	0	0.00	78.	999.	3	NAD-SFC NoSubs
11	7	21	202	2	-7.8	0.137	-9.000	-9.000	-999.	122.	29.1	0.2720	0.52	1.00	1.50	317.0	15.0	292.2	2.0	0	0.00	79.	999.	3	NAD-SFC NoSubs
11	7	21	202	3	-7.8	0.137	-9.000	-9.000	-999.	121.	29.1	0.2720	0.52	1.00	1.50	313.0	15.0	291.8	2.0	0	0.00	80.	999.	3	NAD-SFC NoSubs
11	7	21	202	4	-15.7	0.196	-9.000	-9.000	-999.	207.	42.4	0.2720	0.52	1.00	2.10	312.0	15.0	291.5	2.0	0	0.00	80.	999.	3	NAD-SFC NoSubs
11	7	21	202	5	-15.7	0.196	-9.000	-9.000	-999.	207.	42.4	0.2720	0.52	1.00	2.10	315.0	15.0	291.2	2.0	0	0.00	81.	999.	3	NAD-SFC NoSubs
11	7	21	202	6	-12.4	0.199	-9.000	-9.000	-999.	214.	56.7	0.2720	0.52	0.53	2.10	314.0	15.0	291.2	2.0	0	0.00	81.	1000.	3	NAD-SFC NoSubs
11	7	21	202	7	31.9	0.194	0.515	0.009	152.	205.	-20.4	0.2720	0.52	0.30	1.50	323.0	15.0	292.8	2.0	0	0.00	72.	1000.	3	NAD-SFC NoSubs
11	7	21	202	8	77.2	-9.000	-9.000	-9.000	301.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	294.4	2.0	0	0.00	68.	1000.	2	NAD-SFC NoSubs
11	7	21	202	9	118.2	-9.000	-9.000	-9.000	455.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.1	2.0	0	0.00	64.	999.	2	NAD-SFC NoSubs
11	7	21	202	10	151.1	-9.000	-9.000	-9.000	589.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.9	2.0	0	0.00	60.	999.	2	NAD-SFC NoSubs
11	7	21	202	11	174.4	-9.000	-9.000	-9.000	727.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.6	2.0	0	0.00	56.	998.	2	NAD-SFC NoSubs
11	7	21	202	12	186.7	-9.000	-9.000	-9.000	864.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.4	2.0	0	0.00	50.	997.	2	NAD-SFC NoSubs
11	7	21	202	13	188.1	-9.000	-9.000	-9.000	981.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.9	2.0	0	0.00	45.	996.	2	NAD-SFC NoSubs
11	7	21	202	14	178.7	0.120	1.747	0.011	1061.	100.	-1.0	0.2720	0.52	0.19	0.50	315.0	15.0	304.1	2.0	0	0.00	40.	995.	2	NAD-SFC NoSubs
11	7	21	202	15	157.9	0.120	1.710	0.012	1126.	100.	-1.0	0.2930	0.52	0.19	0.50	345.0	15.0	304.8	2.0	0	0.00	37.	995.	2	NAD-SFC NoSubs
11	7	21	202	16	127.1	-9.000	-9.000	-9.000	1175.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	305.2	2.0	0	0.00	36.	995.	2	NAD-SFC NoSubs
11	7	21	202	17	87.7	0.220	1.439	0.012	1208.	247.	-10.7	0.2940	0.52	0.22	1.50	6.0	15.0	305.2	2.0	0	0.00	36.	995.	2	NAD-SFC NoSubs
11	7	21	202	18	43.2	0.259	1.142	0.013	1223.	316.	-35.6	0.2930	0.52	0.28	2.10	341.0	15.0	304.9	2.0	0	0.00	45.	995.	3	NAD-SFC NoSubs
11	7	21	202	19	-5.4	0.486	-9.000	-9.000	-999.	812.	1869.1	0.2160	0.52	0.48	5.10	288.0	15.0	302.2	2.0	0	0.00	53.	996.	3	NAD-SFC NoSubs
11	7	21	202	20	-40.0	0.398	-9.000	-9.000	-999.	609.	139.9	0.1750	0.52	1.00	4.60	269.0	15.0	297.6	2.0	0	0.00	65.	996.	3	NAD-SFC NoSubs
11	7	21	202	21	-45.0	0.443	-9.000	-9.000	-999.	708.	171.9	0.1750	0.52	1.00	5.10	266.0	15.0	295.1	2.0	0	0.00	68.	997.	3	NAD-SFC NoSubs
11	7	21	202	22	-42.9	0.420	-9.000	-9.000	-999.	654.	153.7	0.2160	0.52	1.00	4.60	275.0	15.0	293.6	2.0	0	0.00	71.	997.	3	NAD-SFC NoSubs
11	7	21	202	23	-38.2	0.373	-9.000	-9.000	-999.	548.	120.5	0.2160	0.52	1.00	4.10	278.0	15.0	292.6	2.0	0	0.00	73.	997.	3	NAD-SFC NoSubs
11	7	21	202	24	-28.6	0.278	-9.000	-9.000	-999.	357.	67.0	0.2160	0.52	1.00	3.10	277.0	15.0	291.8	2.0	0	0.00	75.	997.	3	NAD-SFC NoSubs
11	7	22	203	1	-7.1	0.129	-9.000	-9.000	-999.	129.	26.8	0.2160	0.52	1.00	1.50	299.0	15.0	291.5	2.0	0	0.00	75.	997.	3	NAD-SFC NoSubs
11	7	22	203	2	-8.1	0.140	-9.000	-9.000	-999.	126.	29.9	0.2940	0.52	1.00	1.50	9.0	15.0	291.1	2.0	0	0.00	76.	997.	3	NAD-SFC NoSubs
11	7	22	203	3	-25.5	0.252	-9.000	-9.000	-999.	304.	55.9	0.2940	0.52	1.00	2.60	16.0	15.0	290.5	2.0	0	0.00	80.	998.	3	NAD-SFC NoSubs
11	7	22	203	4	-8.2	0.140	-9.000	-9.000	-999.	132.	29.9	0.2940	0.52	1.00	1.50	17.0	15.0	290.0	2.0	0	0.00	83.	998.	3	NAD-SFC NoSubs
11	7	22	203	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	289.6	2.0	0	0.00	84.	998.	2	NAD-SFC NoSubs
11	7	22	203	6	-3.0	0.093	-9.000	-9.000	-999.	69.	24.5	0.2720	0.52	0.53	1.00	319.0	15.0	289.8	2.0	0	0.00	83.	999.	2	NAD-SFC NoSubs
11	7	22	203	7	30.0	0.278	0.485	0.009	135.	351.	-63.7	0.2160	0.52	0.30	2.60	286.0	15.0	291.8	2.0	0	0.00	72.	999.	2	NAD-SFC NoSubs
11	7	22	203	8	76.5	0.102	0.787	0.010	227.	112.	-1.2	0.2160	0.52	0.22	0.50	280.0	15.0	293.8	2.0	0	0.00	63.	999.	2	NAD-SFC NoSubs
11	7	22	203	9	117.7	-9.000	-9.000	-9.000	351.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	295.8	2.0	0	0.00	57.	998.	2	NAD-SFC NoSubs
11	7	22	203	10	150.8	-9.000	-9.000	-9.000	505.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.8	2.0	0	0.00	52.	998.	2	NAD-SFC NoSubs
11	7	22	203	11	174.1	-9.000	-9.000	-9.000	657.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.5	2.0	0	0.00	48.	997.	2	NAD-SFC NoSubs
11	7	22	203	12	186.3	-9.000	-9.000	-9.000	790.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.1	2.0	0	0.00	44.	996.	2	NAD-SFC NoSubs
11	7	22	203	13	187.7	0.121	1.684	0.011	905.	101.	-1.0	0.2720	0.52	0.19	0.50	320.0	15.0	302.5	2.0	0	0.00	40.	996.	2	NAD-SFC NoSubs
11	7	22	203	14	178.2	0.122	1.709	0.011	996.	103.	-1.0	0.2930	0.52	0.19	0.50	335.0	15.0	303.5	2.0	0	0.00	38.	995.	2	NAD-SFC NoSubs
11	7	22	203	15	157.4	0.182	1.674	0.011	1059.	186.	-3.4	0.2930	0.52	0.19	1.00	352.0	15.0	304.1	2.0	0	0.00	37.	995.	2	NAD-SFC NoSubs
11	7	22	203	16	126.3	0.286	1.579	0.011	1107.	368.	-16.5	0.2930	0.52	0.20	2.10	349.0	15.0	304.2	2.0	0	0.00	38.	994.	2	NAD-SFC NoSubs
11	7	22	203	17	87.5	-9.000	-9.000	-9.000	1139.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	304.1	2.0	0	0.00	40.	994.	3	NAD-SFC NoSubs
11	7	22	203	18	42.2	0.305	1.111	0.011	1153.	403.	-59.4	0.2940	0.52	0.28	2.60	23.0	15.0	303.8	2.0	0	0.00	49.	995.	3	NAD-SFC NoSubs
11	7	22	203	19	-2.9	0.265	-9.000	-9.000	-999.	327.	558.2	0.2930	0.52	0.49	2.60	347.0	15.0	302.9	2.0	0	0.00	51.	996.	3	NAD-SFC NoSubs
11	7	22	203	20	-46.7	0.468	-9.000	-9.000	-999.	768.	195.0	0.2160	0.52	1.00	5.10	280.0	15.0	300.2	2.0	0	0.00	60.	996.	3	NAD-SFC NoSubs
11	7	22	203	21	-44.9	0.443	-9.000	-9.000	-999.	709.	172.5	0.1750	0.52	1.00	5.10	269.0	15.0	296.0	2.0	0	0.00	74.	997.	3	NAD-SFC NoSubs
11	7	22	203	22	-42.7	0.420	-9.000	-9.000	-999.	654.	154.2	0.2160	0.52	1.00	4.60	275.0	15.0	294.5	2.0	0	0.00	77.	997.	3	NAD-SFC NoSubs
11	7	22	203	23	-33.3	0.325	-9.000	-9.000	-999.	451.	92.3	0.2160	0.52	1.00	3.60	272.0	15.0	293.6	2.0	0	0.00	80.	998.	3	NAD-SFC NoSubs
11	7	22	203	24	-14.1	0.183	-9.000	-9.000	-999.	202.	38.9	0.2160	0.52	1.00	2.10	295.0	15.0	293.0	2.0	0	0.00	81.	998.	3	NAD-SFC NoSubs
11	7	23	204	1	-3.9	0.101	-9.000	-9.000	-999.	81.	23.7	0.2930	0.52	1.00	1.00	339.0	15.0	292.8	2.0	0	0.00	81.	998.	3	NAD-SFC NoSubs
11	7	23	204	2	-3.9	0.102	-9.000	-9.000	-999.	78.	23.7	0.2940	0.52	1.00	1.00	9.0	15.0	292.4	2.0	0	0.00	82.	999.	3	NAD-SFC NoSubs
11	7	23	204	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	292.1	2.0	0	0.00	83.	999.	3	NAD-SFC NoSubs
11	7	23	204	4	-3.9	0.101	-9.000	-9.000	-999.	78.	23.7	0.2930	0.52	1.00	1.00	337.0	15.0	291.8	2.0	0	0.00	83.	999.	3	NAD-SFC NoSubs
11	7	23	204	5	-7.9	0.137	-9.000	-9.000	-999.	121.	29.1	0.2720	0.52	1.00	1.50	314.0	15.0	291.4	2.0	0	0.00	83.	999.	3	NAD-SFC NoSubs
11	7	23	204	6	-12.8	0.199	-9.000	-9.000	-999.	213.	54.9	0.2720	0.52	0.54	2.10	308.0	15.0	291.4	2.0	0	0.00	83.	1000.	3	NAD-SFC NoSubs
11	7	23	204	7	31.2	0.248	0.504	0.008	146.	296.	-43.6	0.2720	0.52	0.30	2.10	315.0	15.0	293.1	2.0	0	0.00	74.	1000.	3	NAD-SFC NoSubs
11	7	23	204	8	76.5	0.107	0.845	0.008	281.	100.	-1.4	0.2720	0.52	0.22	0.50	312.0	15.0	294.8	2.0	0	0.00	71.	1000.	2	NAD-SFC NoSubs
11	7	23	204	9	117.7	-9.000	-9.000	-9.000	435.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.5	2.0	0	0.00	68.	1000.	2	NAD-SFC NoSubs
11	7	23	204	10	150.9	-9.000	-9.000	-9.000	596.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.8	2.0	0	0.00	60.	1000.	2	NAD-SFC NoSubs
11	7	23	204	11	174.4	-9.000	-9.000	-9.000	742.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.8	2.0	0	0.00	52.	999.	2	NAD-SFC NoSubs
11	7	23	204	12	186.8	0.115	1.659	0.010	872.	94.	-1.0	0.2160	0.52	0.19	0.50	287.0	15.0	302.6	2.0	0	0.00	44.	999.	2	NAD-SFC NoSubs
11	7	23	204	13	188.2	0.121	1.732	0.011	984.	101.	-1.0	0.2720	0.52	0.19	0.50	315.0	15.0	304.0	2.0	0	0.00	38.	998.	2	NAD-SFC NoSubs
11	7	23	204	14	178.9	-9.000	-9.000	-9.000	1060.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	305.1	2.0	0	0.00	34.	998.	2	NAD-SFC NoSubs
11	7	23	204	15	158.1	0.118	1.709	0.012	1124.	98.	-1.0	0.2720	0.52	0.19	0.50	324.0	15.0	305.9	2.0	0	0.00	32.	997.	2	NAD-SFC NoSubs
11	7	23	204	16	127.1	0.177	1.612	0.012	1172.	179.	-3.9	0.2930	0.52	0.20	1.00	355.0	15.0	306.2	2.0	0	0.00	31.	997.	2	NAD-SFC NoSubs
11	7	23	204	17	87.5	-9.000	-9.000	-9.000	1204.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	306.1	2.0	0	0.00	34.	997.	2	NAD-SFC NoSubs
11	7	23	204	18	41.6	0.304	1.125	0.012	1217.	403.	-60.2	0.2940	0.52	0.28	2.60	15.0	15.0	305.4	2.0	0	0.00	44.	998.	2	NAD-SFC NoSubs
11	7	23	204	19	-2.1	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.49	0.00	0.0	15.0	304.0	2.0	0	0.00	49.	998.	2	NAD-SFC NoSubs
11	7	23	204	20	-45.8	0.448	-9.000	-9.000	-999.	719.	174.7	0.2720	0.52	1.00	4.60	309.0	15.0	301.4	2.0	0	0.00	56.	999.	2	NAD-SFC NoSubs
11	7	23	204	21	-43.6	0.420	-9.000	-9.000	-999.	654.	151.5	0.2160	0.52	1.00	4.60	279.0	15.0	297.2	2.0	0	0.00	64.	1000.	2	NAD-SFC NoSubs
11	7	23	204	22	-43.9	0.420	-9.000	-9.000	-999.	653.	150.5	0.2160	0.52	1.00	4.60	279.0	15.0	295.2	2.0	0	0.00	68.	1001.	2	NAD-SFC NoSubs
11	7	23	204	23	-44.1	0.420	-9.000	-9.000	-999.	653.	149.9	0.2160	0.52	1.00	4.60	293.0	15.0	294.1	2.0	0	0.00	72.	1001.	2	NAD-SFC NoSubs
11	7	23	204	24	-39.3	0.372	-9.000	-9.000	-999.	547.	117.6	0.2160	0.52	1.00	4.10	290.0	15.0	293.1	2.0	0	0.00	75.	1002.	2	NAD-SFC NoSubs
11	7	24	205	1	-30.5	0.297	-9.000	-9.000	-999.	391.	76.4	0.2720	0.52	1.00	3.10	325.0	15.0	292.5	2.0	0	0.00	77.	1002.	3	NAD-SFC NoSubs
11	7	24	205	2	-36.6	0.355	-9.000	-9.000	-999.	506.	108.8	0.2930	0.52	1.00	3.60	349.0	15.0	291.9	2.0	0	0.00	79.	1003.	3	NAD-SFC NoSubs

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11   7 24 205   3  -36.7  0.355 -9.000 -9.000 -999.  507.    108.6  0.2930  0.52  1.00   3.60  349.0  15.0  291.4   2.0    0   0.00   80.  1003.     3 NAD-SFC NoSubs
11   7 24 205   4  -31.4  0.303 -9.000 -9.000 -999.  402.     79.4  0.2930  0.52  1.00   3.10  350.0  15.0  291.1   2.0    0   0.00   80.  1003.     3 NAD-SFC NoSubs
11   7 24 205   5  -25.9  0.251 -9.000 -9.000 -999.  304.     55.1  0.2930  0.52  1.00   2.60  360.0  15.0  290.9   2.0    0   0.00   79.  1004.     2 NAD-SFC NoSubs
11   7 24 205   6    1.8 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.54   0.00    0.0  15.0  291.1   2.0    0   0.00   78.  1004.     2 NAD-SFC NoSubs
11   7 24 205   7   29.5  0.196  0.451  0.010  111.  208.    -22.8  0.2930  0.52  0.30   1.50  336.0  15.0  292.9   2.0    0   0.00   68.  1004.     2 NAD-SFC NoSubs
11   7 24 205   8   76.1 -9.000 -9.000 -9.000  204. -999. -99999.0  0.2235  0.52  0.22   0.00    0.0  15.0  294.8   2.0    0   0.00   62.  1004.     2 NAD-SFC NoSubs
11   7 24 205   9  117.4 -9.000 -9.000 -9.000  349. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  296.6   2.0    0   0.00   57.  1004.     2 NAD-SFC NoSubs
11   7 24 205  10  150.6 -9.000 -9.000 -9.000  513. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  298.5   2.0    0   0.00   54.  1004.     2 NAD-SFC NoSubs
11   7 24 205  11  174.2 -9.000 -9.000 -9.000  669. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  300.8   2.0    0   0.00   48.  1003.     2 NAD-SFC NoSubs
11   7 24 205  12  186.7 -9.000 -9.000 -9.000  801. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  302.8   2.0    0   0.00   42.  1003.     2 NAD-SFC NoSubs
11   7 24 205  13  188.1  0.121  1.688  0.009  915.  101.    -1.0  0.2720  0.52  0.19   0.50  321.0  15.0  304.1   2.0    0   0.00   37.  1002.     2 NAD-SFC NoSubs
11   7 24 205  14  178.7  0.184  1.716  0.009 1011.  190.    -3.1  0.2930  0.52  0.19   1.00  336.0  15.0  305.2   2.0    0   0.00   34.  1001.     2 NAD-SFC NoSubs
11   7 24 205  15  157.7  0.293  1.686  0.010 1087.  380.    -14.2  0.2930  0.52  0.19   2.10  346.0  15.0  305.8   2.0    0   0.00   33.  1001.     2 NAD-SFC NoSubs
11   7 24 205  16  126.8 -9.000 -9.000 -9.000 1145. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  306.2   2.0    0   0.00   30.  1000.     2 NAD-SFC NoSubs
11   7 24 205  17   86.9  0.322  1.422  0.010 1181.  439.    -34.3  0.2940  0.52  0.22   2.60   10.0  15.0  305.6   2.0    0   0.00   39.  1000.     2 NAD-SFC NoSubs
11   7 24 205  18   41.0  0.349  1.112  0.010 1197.  495.    -92.7  0.2930  0.52  0.28   3.10  356.0  15.0  305.1   2.0    0   0.00   44.  1001.     2 NAD-SFC NoSubs
11   7 24 205  19  -11.9  0.461 -9.000 -9.000 -999.  750.    733.1  0.2720  0.52  0.49   4.60  313.0  15.0  303.2   2.0    0   0.00   48.  1001.     2 NAD-SFC NoSubs
11   7 24 205  20  -48.4  0.468 -9.000 -9.000 -999.  767.    188.6  0.2160  0.52  1.00   5.10  278.0  15.0  298.4   2.0    0   0.00   61.  1002.     2 NAD-SFC NoSubs
11   7 24 205  21  -48.9  0.468 -9.000 -9.000 -999.  767.    187.0  0.2160  0.52  1.00   5.10  285.0  15.0  295.9   2.0    0   0.00   65.  1003.     2 NAD-SFC NoSubs
11   7 24 205  22  -39.1  0.373 -9.000 -9.000 -999.  552.    118.2  0.2160  0.52  1.00   4.10  284.0  15.0  294.6   2.0    0   0.00   68.  1003.     2 NAD-SFC NoSubs
11   7 24 205  23  -31.2  0.296 -9.000 -9.000 -999.  391.     74.6  0.2720  0.52  1.00   3.10  300.0  15.0  293.6   2.0    0   0.00   70.  1003.     2 NAD-SFC NoSubs
11   7 24 205  24  -31.3  0.296 -9.000 -9.000 -999.  387.     74.4  0.2720  0.52  1.00   3.10  329.0  15.0  293.0   2.0    0   0.00   71.  1003.     2 NAD-SFC NoSubs
11   7 25 206   1  -37.6  0.354 -9.000 -9.000 -999.  506.    106.0  0.2930  0.52  1.00   3.60  349.0  15.0  292.1   2.0    0   0.00   74.  1004.     2 NAD-SFC NoSubs
11   7 25 206   2  -32.2  0.303 -9.000 -9.000 -999.  402.     77.4  0.2930  0.52  1.00   3.10  338.0  15.0  291.5   2.0    0   0.00   75.  1004.     2 NAD-SFC NoSubs
11   7 25 206   3  -24.9  0.246 -9.000 -9.000 -999.  294.     53.5  0.2720  0.52  1.00   2.60  329.0  15.0  291.2   2.0    0   0.00   74.  1004.     2 NAD-SFC NoSubs
11   7 25 206   4  -16.0  0.195 -9.000 -9.000 -999.  208.     41.7  0.2720  0.52  1.00   2.10  323.0  15.0  291.2   2.0    0   0.00   72.  1004.     2 NAD-SFC NoSubs
11   7 25 206   5   -3.9  0.101 -9.000 -9.000 -999.   81.     23.3  0.2720  0.52  1.00   1.00  325.0  15.0  291.0   2.0    0   0.00   73.  1004.     2 NAD-SFC NoSubs
11   7 25 206   6   12.5 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  0.55   0.00    0.0  15.0  290.9   2.0    0   0.00   76.  1004.     2 NAD-SFC NoSubs
11   7 25 206   7   28.8  0.148  0.531  0.010  186.  136.    -10.0  0.2930  0.52  0.30   1.00  359.0  15.0  292.4   2.0    0   0.00   70.  1004.     2 NAD-SFC NoSubs
11   7 25 206   8   75.5 -9.000 -9.000 -9.000  293. -999. -99999.0  0.2235  0.52  0.22   0.00    0.0  15.0  294.2   2.0    0   0.00   63.  1004.     2 NAD-SFC NoSubs
11   7 25 206   9  116.7 -9.000 -9.000 -9.000  410. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  295.8   2.0    0   0.00   59.  1003.     2 NAD-SFC NoSubs
11   7 25 206  10  149.9 -9.000 -9.000 -9.000  564. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  297.6   2.0    0   0.00   55.  1002.     2 NAD-SFC NoSubs
11   7 25 206  11  173.3 -9.000 -9.000 -9.000  702. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  299.2   2.0    0   0.00   51.  1002.     2 NAD-SFC NoSubs
11   7 25 206  12  185.5  0.123  1.622  0.011  823.  103.    -1.0  0.2930  0.52  0.19   0.50  345.0  15.0  300.8   2.0    0   0.00   48.  1001.     2 NAD-SFC NoSubs
11   7 25 206  13  186.9  0.185  1.695  0.011  930.  192.    -3.0  0.2930  0.52  0.19   1.00  346.0  15.0  302.2   2.0    0   0.00   45.  1000.     2 NAD-SFC NoSubs
11   7 25 206  14  177.4  0.238  1.713  0.011 1011.  278.    -6.8  0.2930  0.52  0.19   1.50  346.0  15.0  303.2   2.0    0   0.00   43.   999.     2 NAD-SFC NoSubs
11   7 25 206  15  156.4  0.340  1.674  0.011 1070.  476.    -22.4  0.2940  0.52  0.19   2.60    3.0  15.0  303.8   2.0    0   0.00   41.   999.     2 NAD-SFC NoSubs
11   7 25 206  16  125.3  0.379  1.577  0.012 1115.  560.    -38.8  0.2940  0.52  0.20   3.10    3.0  15.0  304.0   2.0    0   0.00   42.   998.     2 NAD-SFC NoSubs
11   7 25 206  17   85.5 -9.000 -9.000 -9.000 1144. -999. -99999.0  0.2235  0.52  0.22   0.00    0.0  15.0  303.8   2.0    0   0.00   47.   998.     2 NAD-SFC NoSubs
11   7 25 206  18   39.6  0.303  1.088  0.012 1156.  400.    -62.4  0.2930  0.52  0.28   2.60  349.0  15.0  303.2   2.0    0   0.00   53.   998.     2 NAD-SFC NoSubs
11   7 25 206  19   -9.6  0.311 -9.000 -9.000 -999.  416.    280.4  0.2930  0.52  0.50   3.10  343.0  15.0  302.4   2.0    0   0.00   55.   998.     2 NAD-SFC NoSubs
11   7 25 206  20  -35.3  0.355 -9.000 -9.000 -999.  507.    112.5  0.2930  0.52  1.00   3.60  336.0  15.0  301.2   2.0    0   0.00   57.   998.     3 NAD-SFC NoSubs
11   7 25 206  21  -45.0  0.448 -9.000 -9.000 -999.  719.    178.1  0.2720  0.52  1.00   4.60  302.0  15.0  299.2   2.0    0   0.00   63.   999.     3 NAD-SFC NoSubs
11   7 25 206  22  -40.4  0.398 -9.000 -9.000 -999.  605.    139.2  0.1750  0.52  1.00   4.60  268.0  15.0  296.2   2.0    0   0.00   71.   999.     3 NAD-SFC NoSubs
11   7 25 206  23  -33.1  0.325 -9.000 -9.000 -999.  449.     92.7  0.2160  0.52  1.00   3.60  281.0  15.0  295.1   2.0    0   0.00   73.   999.     3 NAD-SFC NoSubs
11   7 25 206  24  -28.4  0.278 -9.000 -9.000 -999.  353.     67.7  0.2160  0.52  1.00   3.10  295.0  15.0  294.8   2.0    0   0.00   74.   999.     3 NAD-SFC NoSubs
11   7 26 207   1  -30.2  0.297 -9.000 -9.000 -999.  388.     76.9  0.2720  0.52  1.00   3.10  320.0  15.0  294.6   2.0    0   0.00   75.   999.     3 NAD-SFC NoSubs
11   7 26 207   2  -31.0  0.303 -9.000 -9.000 -999.  401.     80.2  0.2930  0.52  1.00   3.10  355.0  15.0  293.9   2.0    0   0.00   79.   999.     3 NAD-SFC NoSubs
11   7 26 207   3  -25.4  0.252 -9.000 -9.000 -999.  305.     56.2  0.2940  0.52  1.00   2.60   13.0  15.0  293.1   2.0    0   0.00   82.   999.     3 NAD-SFC NoSubs
11   7 26 207   4  -16.3  0.200 -9.000 -9.000 -999.  216.     43.9  0.2940  0.52  1.00   2.10    6.0  15.0  292.4   2.0    0   0.00   84.   999.     3 NAD-SFC NoSubs
11   7 26 207   5   -8.1  0.140 -9.000 -9.000 -999.  126.     29.9  0.2940  0.52  1.00   1.50   18.0  15.0  291.8   2.0    0   0.00   86.   999.     3 NAD-SFC NoSubs
11   7 26 207   6   -6.8  0.141 -9.000 -9.000 -999.  127.     36.6  0.2940  0.52  0.55   1.50    6.0  15.0  291.2   2.0    0   0.00   86.   999.     3 NAD-SFC NoSubs
11   7 26 207   7   28.3 -9.000 -9.000 -9.000  186. -999. -99999.0  0.2235  0.52  0.30   0.00    0.0  15.0  292.2   2.0    0   0.00   76.   999.     2 NAD-SFC NoSubs
11   7 26 207   8   75.1  0.109  0.846  0.008  288.   86.    -1.5  0.2930  0.52  0.22   0.50  349.0  15.0  294.1   2.0    0   0.00   67.   999.     2 NAD-SFC NoSubs
11   7 26 207   9  116.4 -9.000 -9.000 -9.000  392. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  295.9   2.0    0   0.00   61.   999.     2 NAD-SFC NoSubs
11   7 26 207  10  149.6 -9.000 -9.000 -9.000  571. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  297.5   2.0    0   0.00   57.   998.     2 NAD-SFC NoSubs
11   7 26 207  11  173.0 -9.000 -9.000 -9.000  772. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  299.1   2.0    0   0.00   53.   998.     2 NAD-SFC NoSubs
11   7 26 207  12  185.3 -9.000 -9.000 -9.000  978. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  300.8   2.0    0   0.00   49.   997.     2 NAD-SFC NoSubs
11   7 26 207  13  186.6  0.123  1.766  0.012 1052.  104.    -1.0  0.2930  0.52  0.19   0.50  333.0  15.0  302.1   2.0    0   0.00   44.   997.     2 NAD-SFC NoSubs
11   7 26 207  14  177.0 -9.000 -9.000 -9.000 1118. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  303.0   2.0    0   0.00   41.   996.     2 NAD-SFC NoSubs
11   7 26 207  15  156.1  0.234  1.727  0.013 1173.  272.    -7.3  0.2940  0.52  0.19   1.50   13.0  15.0  303.6   2.0    0   0.00   39.   995.     2 NAD-SFC NoSubs
11   7 26 207  16  124.9  0.286  1.622  0.013 1215.  367.    -16.6  0.2940  0.52  0.20   2.10    9.0  15.0  303.8   2.0    0   0.00   38.   995.     2 NAD-SFC NoSubs
11   7 26 207  17   85.1  0.322  1.438  0.013 1242.  438.    -34.7  0.2940  0.52  0.22   2.60   14.0  15.0  303.5   2.0    0   0.00   42.   995.     2 NAD-SFC NoSubs
11   7 26 207  18   38.9  0.349  1.112  0.013 1253.  494.    -96.6  0.2940  0.52  0.29   3.10   24.0  15.0  302.8   2.0    0   0.00   51.   995.     2 NAD-SFC NoSubs
11   7 26 207  19  -12.9  0.363 -9.000 -9.000 -999.  524.    328.3  0.2940  0.52  0.50   3.60   13.0  15.0  301.5   2.0    0   0.00   55.   996.     2 NAD-SFC NoSubs
11   7 26 207  20  -30.2  0.303 -9.000 -9.000 -999.  403.     82.0  0.2930  0.52  1.00   3.10  358.0  15.0  300.4   2.0    0   0.00   57.   996.     3 NAD-SFC NoSubs
11   7 26 207  21  -37.4  0.373 -9.000 -9.000 -999.  546.    123.2  0.2160  0.52  1.00   4.10  289.0  15.0  298.9   2.0    0   0.00   62.   997.     3 NAD-SFC NoSubs
11   7 26 207  22  -47.5  0.468 -9.000 -9.000 -999.  767.    191.7  0.2160  0.52  1.00   5.10  270.0  15.0  295.4   2.0    0   0.00   74.   997.     3 NAD-SFC NoSubs
11   7 26 207  23  -38.0  0.373 -9.000 -9.000 -999.  553.    121.2  0.2160  0.52  1.00   4.10  279.0  15.0  294.1   2.0    0   0.00   76.   997.     3 NAD-SFC NoSubs
11   7 26 207  24  -28.4  0.278 -9.000 -9.000 -999.  358.     67.4  0.2160  0.52  1.00   3.10  277.0  15.0  293.8   2.0    0   0.00   77.   997.     3 NAD-SFC NoSubs
11   7 27 208   1  -29.1  0.278 -9.000 -9.000 -999.  352.     65.6  0.2160  0.52  1.00   3.10  280.0  15.0  293.4   2.0    0   0.00   78.   997.     2 NAD-SFC NoSubs
11   7 27 208   2  -24.7  0.246 -9.000 -9.000 -999.  293.     53.7  0.2720  0.52  1.00   2.60  300.0  15.0  293.1   2.0    0   0.00   79.   998.     2 NAD-SFC NoSubs
11   7 27 208   3  -15.8  0.195 -9.000 -9.000 -999.  208.     41.9  0.2720  0.52  1.00   2.10  316.0  15.0  292.8   2.0    0   0.00   80.   998.     2 NAD-SFC NoSubs
11   7 27 208   4   -7.9  0.137 -9.000 -9.000 -999.  122.     28.8  0.2720  0.52  1.00   1.50  327.0  15.0  292.4   2.0    0   0.00   83.   998.     2 NAD-SFC NoSubs
11   7 27 208   5   -8.2  0.140 -9.000 -9.000 -999.  125.     29.5  0.2930  0.52  1.00   1.50  330.0  15.0  291.9   2.0    0   0.00   86.   998.     2 NAD-SFC NoSubs
11   7 27 208   6   -6.8  0.137 -9.000 -9.000 -999.  122.     33.8  0.2720  0.52  0.56   1.50  327.0  15.0  291.6   2.0    0   0.00   88.   999.     2 NAD-SFC NoSubs
11   7 27 208   7   28.1  0.195  0.501  0.009  160.  206.    -23.5  0.2930  0.52  0.30   1.50  345.0  15.0  292.9   2.0    0   0.00   81.   999.     2 NAD-SFC NoSubs
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11	7	27	208	8	74.9	0.109	0.856	0.009	298.	89.	-1.5	0.2930	0.52	0.22	0.50	341.0	15.0	294.9	2.0	0	0.00	73.	999.	2	NAD-SFC NoSubs
11	7	27	208	9	116.4	-9.000	-9.000	-9.000	440.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.8	2.0	0	0.00	66.	999.	2	NAD-SFC NoSubs
11	7	27	208	10	149.8	-9.000	-9.000	-9.000	592.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.8	2.0	0	0.00	59.	999.	2	NAD-SFC NoSubs
11	7	27	208	11	173.4	-9.000	-9.000	-9.000	734.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.8	2.0	0	0.00	50.	998.	2	NAD-SFC NoSubs
11	7	27	208	12	185.9	-9.000	-9.000	-9.000	865.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.6	2.0	0	0.00	44.	997.	2	NAD-SFC NoSubs
11	7	27	208	13	187.4	0.121	1.726	0.013	977.	101.	-1.0	0.2720	0.52	0.19	0.50	315.0	15.0	304.1	2.0	0	0.00	40.	996.	2	NAD-SFC NoSubs
11	7	27	208	14	177.9	0.122	1.730	0.012	1036.	103.	-1.0	0.2930	0.52	0.19	0.50	334.0	15.0	305.2	2.0	0	0.00	37.	996.	2	NAD-SFC NoSubs
11	7	27	208	15	156.9	0.234	1.686	0.012	1086.	272.	-7.3	0.2930	0.52	0.19	1.50	350.0	15.0	305.8	2.0	0	0.00	36.	995.	2	NAD-SFC NoSubs
11	7	27	208	16	125.8	-9.000	-9.000	-9.000	1124.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	306.0	2.0	0	0.00	36.	995.	2	NAD-SFC NoSubs
11	7	27	208	17	85.7	0.322	1.404	0.012	1148.	438.	-34.5	0.2940	0.52	0.22	2.60	9.0	15.0	305.5	2.0	0	0.00	45.	995.	2	NAD-SFC NoSubs
11	7	27	208	18	39.5	0.349	1.088	0.012	1158.	495.	-95.4	0.2940	0.52	0.29	3.10	13.0	15.0	304.8	2.0	0	0.00	51.	995.	2	NAD-SFC NoSubs
11	7	27	208	19	-10.6	0.461	-9.000	-9.000	-999.	752.	820.1	0.2720	0.52	0.50	4.60	319.0	15.0	303.5	2.0	0	0.00	53.	996.	3	NAD-SFC NoSubs
11	7	27	208	20	-54.1	0.525	-9.000	-9.000	-999.	912.	238.1	0.2160	0.52	1.00	5.70	284.0	15.0	298.8	2.0	0	0.00	68.	997.	2	NAD-SFC NoSubs
11	7	27	208	21	-48.5	0.468	-9.000	-9.000	-999.	771.	187.3	0.2160	0.52	1.00	5.10	276.0	15.0	296.4	2.0	0	0.00	70.	997.	2	NAD-SFC NoSubs
11	7	27	208	22	-43.8	0.420	-9.000	-9.000	-999.	655.	150.4	0.2160	0.52	1.00	4.60	278.0	15.0	295.1	2.0	0	0.00	73.	998.	2	NAD-SFC NoSubs
11	7	27	208	23	-34.0	0.325	-9.000	-9.000	-999.	451.	90.0	0.2160	0.52	1.00	3.60	284.0	15.0	294.2	2.0	0	0.00	75.	998.	2	NAD-SFC NoSubs
11	7	27	208	24	-24.7	0.246	-9.000	-9.000	-999.	296.	53.7	0.2720	0.52	1.00	2.60	307.0	15.0	293.8	2.0	0	0.00	76.	998.	2	NAD-SFC NoSubs
11	7	28	209	1	-15.7	0.196	-9.000	-9.000	-999.	208.	42.5	0.2720	0.52	1.00	2.10	316.0	15.0	293.2	2.0	0	0.00	76.	999.	3	NAD-SFC NoSubs
11	7	28	209	2	-8.1	0.140	-9.000	-9.000	-999.	126.	30.0	0.2930	0.52	1.00	1.50	340.0	15.0	293.0	2.0	0	0.00	76.	999.	3	NAD-SFC NoSubs
11	7	28	209	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	292.8	2.0	0	0.00	77.	999.	2	NAD-SFC NoSubs
11	7	28	209	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	292.5	2.0	0	0.00	77.	999.	2	NAD-SFC NoSubs
11	7	28	209	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	292.2	2.0	0	0.00	77.	999.	2	NAD-SFC NoSubs
11	7	28	209	6	-1.3	0.075	-9.000	-9.000	-999.	49.	29.2	0.2940	0.52	0.56	0.50	11.0	15.0	292.2	2.0	0	0.00	78.	1000.	2	NAD-SFC NoSubs
11	7	28	209	7	28.0	0.192	0.462	0.009	125.	201.	-22.4	0.2720	0.52	0.31	1.50	320.0	15.0	294.1	2.0	0	0.00	69.	1000.	2	NAD-SFC NoSubs
11	7	28	209	8	74.9	0.107	0.807	0.009	250.	86.	-1.4	0.2720	0.52	0.22	0.50	315.0	15.0	295.9	2.0	0	0.00	63.	1000.	2	NAD-SFC NoSubs
11	7	28	209	9	116.4	-9.000	-9.000	-9.000	394.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	297.6	2.0	0	0.00	59.	1000.	2	NAD-SFC NoSubs
11	7	28	209	10	149.8	-9.000	-9.000	-9.000	581.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.5	2.0	0	0.00	55.	999.	2	NAD-SFC NoSubs
11	7	28	209	11	173.6	-9.000	-9.000	-9.000	716.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.8	2.0	0	0.00	49.	999.	2	NAD-SFC NoSubs
11	7	28	209	12	186.2	-9.000	-9.000	-9.000	818.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.6	2.0	0	0.00	43.	998.	2	NAD-SFC NoSubs
11	7	28	209	13	187.7	0.121	1.686	0.011	911.	101.	-1.0	0.2720	0.52	0.19	0.50	322.0	15.0	305.2	2.0	0	0.00	40.	998.	2	NAD-SFC NoSubs
11	7	28	209	14	178.2	-9.000	-9.000	-9.000	988.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	306.2	2.0	0	0.00	37.	997.	2	NAD-SFC NoSubs
11	7	28	209	15	157.4	0.234	1.665	0.010	1045.	272.	-7.3	0.2940	0.52	0.19	1.50	11.0	15.0	307.0	2.0	0	0.00	36.	997.	2	NAD-SFC NoSubs
11	7	28	209	16	126.1	0.333	1.568	0.010	1088.	461.	-26.0	0.2940	0.52	0.20	2.60	9.0	15.0	307.2	2.0	0	0.00	36.	997.	2	NAD-SFC NoSubs
11	7	28	209	17	86.0	0.322	1.391	0.010	1115.	438.	-34.5	0.2940	0.52	0.22	2.60	11.0	15.0	306.8	2.0	0	0.00	45.	997.	2	NAD-SFC NoSubs
11	7	28	209	18	41.0	0.396	1.091	0.009	1127.	598.	-134.9	0.2930	0.52	0.29	3.60	339.0	15.0	306.1	2.0	0	0.00	51.	997.	3	NAD-SFC NoSubs
11	7	28	209	19	-13.8	0.480	-9.000	-9.000	-999.	798.	711.0	0.2160	0.52	0.51	5.10	296.0	15.0	302.8	2.0	0	0.00	58.	998.	3	NAD-SFC NoSubs
11	7	28	209	20	-48.2	0.468	-9.000	-9.000	-999.	768.	189.0	0.2160	0.52	1.00	5.10	285.0	15.0	298.9	2.0	0	0.00	64.	999.	2	NAD-SFC NoSubs
11	7	28	209	21	-48.6	0.468	-9.000	-9.000	-999.	767.	187.4	0.2160	0.52	1.00	5.10	277.0	15.0	296.5	2.0	0	0.00	69.	999.	2	NAD-SFC NoSubs
11	7	28	209	22	-43.9	0.420	-9.000	-9.000	-999.	655.	150.4	0.2160	0.52	1.00	4.60	280.0	15.0	295.0	2.0	0	0.00	72.	1000.	2	NAD-SFC NoSubs
11	7	28	209	23	-36.4	0.347	-9.000	-9.000	-999.	494.	102.3	0.2720	0.52	1.00	3.60	302.0	15.0	294.2	2.0	0	0.00	74.	1000.	2	NAD-SFC NoSubs
11	7	28	209	24	-30.4	0.297	-9.000	-9.000	-999.	389.	76.7	0.2720	0.52	1.00	3.10	320.0	15.0	293.6	2.0	0	0.00	75.	1000.	3	NAD-SFC NoSubs
11	7	29	210	1	-36.4	0.355	-9.000	-9.000	-999.	507.	109.3	0.2930	0.52	1.00	3.60	334.0	15.0	293.0	2.0	0	0.00	77.	1001.	3	NAD-SFC NoSubs
11	7	29	210	2	-36.5	0.355	-9.000	-9.000	-999.	507.	109.1	0.2930	0.52	1.00	3.60	352.0	15.0	292.6	2.0	0	0.00	79.	1001.	3	NAD-SFC NoSubs
11	7	29	210	3	-36.5	0.355	-9.000	-9.000	-999.	507.	109.2	0.2940	0.52	1.00	3.60	1.0	15.0	292.2	2.0	0	0.00	80.	1001.	3	NAD-SFC NoSubs
11	7	29	210	4	-31.3	0.304	-9.000	-9.000	-999.	403.	79.8	0.2940	0.52	1.00	3.10	6.0	15.0	291.9	2.0	0	0.00	80.	1001.	3	NAD-SFC NoSubs
11	7	29	210	5	-25.5	0.252	-9.000	-9.000	-999.	305.	56.1	0.2940	0.52	1.00	2.60	7.0	15.0	291.8	2.0	0	0.00	80.	1001.	3	NAD-SFC NoSubs
11	7	29	210	6	-7.3	0.141	-9.000	-9.000	-999.	133.	34.2	0.2940	0.52	0.57	1.50	21.0	15.0	291.8	2.0	0	0.00	80.	1001.	2	NAD-SFC NoSubs
11	7	29	210	7	27.3	0.145	0.448	0.012	118.	132.	-9.9	0.2720	0.52	0.31	1.00	326.0	15.0	293.5	2.0	0	0.00	72.	1002.	2	NAD-SFC NoSubs
11	7	29	210	8	74.3	-9.000	-9.000	-9.000	226.	-999.	-99999.0	0.2235	0.52	0.23	0.00	0.0	15.0	295.5	2.0	0	0.00	65.	1001.	2	NAD-SFC NoSubs
11	7	29	210	9	115.9	-9.000	-9.000	-9.000	357.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	297.2	2.0	0	0.00	60.	1001.	2	NAD-SFC NoSubs
11	7	29	210	10	149.4	-9.000	-9.000	-9.000	514.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.2	2.0	0	0.00	56.	1000.	2	NAD-SFC NoSubs
11	7	29	210	11	173.1	-9.000	-9.000	-9.000	663.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.2	2.0	0	0.00	50.	1000.	2	NAD-SFC NoSubs
11	7	29	210	12	185.7	-9.000	-9.000	-9.000	805.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.2	2.0	0	0.00	45.	999.	2	NAD-SFC NoSubs
11	7	29	210	13	187.2	-9.000	-9.000	-9.000	928.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	304.8	2.0	0	0.00	41.	998.	2	NAD-SFC NoSubs
11	7	29	210	14	177.8	0.184	1.712	0.012	1007.	190.	-3.1	0.2930	0.52	0.19	1.00	342.0	15.0	305.9	2.0	0	0.00	38.	998.	2	NAD-SFC NoSubs
11	7	29	210	15	156.8	-9.000	-9.000	-9.000	1058.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	306.6	2.0	0	0.00	37.	997.	2	NAD-SFC NoSubs
11	7	29	210	16	125.7	0.379	1.570	0.012	1097.	561.	-38.7	0.2940	0.52	0.20	3.10	10.0	15.0	307.0	2.0	0	0.00	36.	997.	2	NAD-SFC NoSubs
11	7	29	210	17	85.4	0.322	1.391	0.012	1122.	440.	-34.6	0.2940	0.52	0.22	2.60	12.0	15.0	306.5	2.0	0	0.00	45.	997.	2	NAD-SFC NoSubs
11	7	29	210	18	40.4	0.389	1.087	0.012	1133.	582.	-129.8	0.2720	0.52	0.29	3.60	322.0	15.0	306.0	2.0	0	0.00	49.	998.	3	NAD-SFC NoSubs
11	7	29	210	19	-20.2	0.477	-9.000	-9.000	-999.	789.	475.7	0.2160	0.52	0.51	5.10	291.0	15.0	302.0	2.0	0	0.00	59.	998.	2	NAD-SFC NoSubs
11	7	29	210	20	-45.7	0.443	-9.000	-9.000	-999.	709.	169.3	0.1750	0.52	1.00	5.10	269.0	15.0	298.4	2.0	0	0.00	64.	999.	2	NAD-SFC NoSubs
11	7	29	210	21	-43.6	0.420	-9.000	-9.000	-999.	654.	151.2	0.2160	0.52	1.00	4.60	278.0	15.0	296.5	2.0	0	0.00	66.	999.	2	NAD-SFC NoSubs
11	7	29	210	22	-29.0	0.278	-9.000	-9.000	-999.	366.	66.0	0.2160	0.52	1.00	3.10	290.0	15.0	295.4	2.0	0	0.00	67.	1000.	2	NAD-SFC NoSubs
11	7	29	210	23	-15.6	0.196	-9.000	-9.000	-999.	211.	42.7	0.2720	0.52	1.00	2.10	325.0	15.0	295.0	2.0	0	0.00	66.	1001.	3	NAD-SFC NoSubs
11	7	29	210	24	-25.4	0.252	-9.000	-9.000	-999.	304.	56.4	0.2940	0.52	1.00	2.60	20.0	15.0	294.6	2.0	0	0.00	67.	1001.	3	NAD-SFC NoSubs
11	7	30	211	1	-23.4	0.240	-9.000	-9.000	-999.	281.	52.5	0.2470	0.52	1.00	2.60	32.0	15.0	293.9	2.0	0	0.00	69.	1002.	3	NAD-SFC NoSubs
11	7	30	211	2	-8.1	0.140	-9.000	-9.000	-999.	130.	30.0	0.2930	0.52	1.00	1.50	358.0	15.0	293.2	2.0	0	0.00	70.	1002.	3	NAD-SFC NoSubs
11	7	30	211	3	-8.1	0.140	-9.000	-9.000	-999.	125.	30.0	0.2930	0.52	1.00	1.50	338.0	15.0	292.8	2.0	0	0.00	70.	1002.	3	NAD-SFC NoSubs
11	7	30	211	4	-8.1	0.140	-9.000	-9.000	-999.	125.	29.9	0.2930	0.52	1.00	1.50	336.0	15.0	292.2	2.0	0	0.00	70.	1002.	3	NAD-SFC NoSubs
11	7	30	211	5	-8.2	0.140	-9.000	-9.000	-999.	125.	29.9	0.2930	0.52	1.00	1.50	342.0	15.0	292.0	2.0	0	0.00	70.	1002.	3	NAD-SFC NoSubs
11	7	30	211	6	-6.9	0.137	-9.000	-9.000	-999.	122.	33.9	0.2720	0.52	0.57	1.50	324.0	15.0	292.0	2.0	0	0.00	70.	1003.	3	NAD-SFC NoSubs
11	7	30	211	7	27.9	0.246	0.482	0.009	143.	292.	-47.6	0.2720	0.52	0.31	2.10	308.0	15.0	293.1	2.0	0	0.00	62.	1003.	3	NAD-SFC NoSubs
11	7	30	211	8	74.5	0.107	0.806	0.009	251.	99.	-1.5	0.2720	0.52	0.23	0.50	300.0	15.0	294.9	2.0	0	0.00	56.	1002.	3	NAD-SFC NoSubs
11	7	30	211	9	115.7	0.107	1.078	0.009	387.	84.	-1.0	0.2160	0.52	0.20	0.50	290.0	15.0	296.6	2.0	0	0.00	52.	1002.	3	NAD-SFC NoSubs
11	7	30	211	10	148.7	-9.000	-9.000	-9.000	575.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.4	2.0	0	0.00	49.	1001.	2	NAD-SFC NoSubs
11	7	30	211	11	172.3	-9.000	-9.000	-9.000	714.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.2	2.0	0	0.00	47.	1001.	2	NAD-SFC NoSubs
11	7	30	211	12	184.7	0.121	1.617	0.009	818.	101.	-1.0	0.2720	0.52	0.19	0.50	320.0	15.0	301.8	2.0	0	0.00	45.	1000.	2	NAD-SFC NoSubs

11	7	30	211	13	186.1	0.121	1.682	0.010	913.	101.	-1.0	0.2720	0.52	0.19	0.50	323.0	15.0	303.2	2.0	0	0.00	43.	999.	2	NAD-SFC	NoSubs
11	7	30	211	14	176.6	0.184	1.702	0.010	996.	190.	-3.2	0.2930	0.52	0.19	1.00	345.0	15.0	304.2	2.0	0	0.00	40.	999.	2	NAD-SFC	NoSubs
11	7	30	211	15	155.7	0.292	1.672	0.011	1071.	379.	-14.3	0.2930	0.52	0.19	2.10	351.0	15.0	305.1	2.0	0	0.00	38.	998.	2	NAD-SFC	NoSubs
11	7	30	211	16	124.2	-9.000	-9.000	-9.000	1126.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	305.2	2.0	0	0.00	39.	998.	2	NAD-SFC	NoSubs
11	7	30	211	17	84.1	0.321	1.399	0.011	1161.	437.	-35.1	0.2940	0.52	0.22	2.60	9.0	15.0	304.9	2.0	0	0.00	46.	998.	2	NAD-SFC	NoSubs
11	7	30	211	18	37.9	0.302	1.078	0.011	1175.	399.	-64.7	0.2940	0.52	0.29	2.60	24.0	15.0	304.5	2.0	0	0.00	53.	998.	2	NAD-SFC	NoSubs
11	7	30	211	19	-2.5	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.52	0.00	0.0	15.0	303.8	2.0	0	0.00	54.	998.	2	NAD-SFC	NoSubs
11	7	30	211	20	-42.9	0.420	-9.000	-9.000	-999.	653.	153.8	0.2160	0.52	1.00	4.60	290.0	15.0	301.4	2.0	0	0.00	59.	999.	2	NAD-SFC	NoSubs
11	7	30	211	21	-54.5	0.525	-9.000	-9.000	-999.	912.	236.7	0.2160	0.52	1.00	5.70	281.0	15.0	297.0	2.0	0	0.00	63.	999.	2	NAD-SFC	NoSubs
11	7	30	211	22	-43.8	0.420	-9.000	-9.000	-999.	662.	150.6	0.2160	0.52	1.00	4.60	276.0	15.0	295.4	2.0	0	0.00	65.	999.	2	NAD-SFC	NoSubs
11	7	30	211	23	-34.0	0.325	-9.000	-9.000	-999.	452.	90.1	0.2160	0.52	1.00	3.60	287.0	15.0	294.6	2.0	0	0.00	67.	999.	2	NAD-SFC	NoSubs
11	7	30	211	24	-31.1	0.296	-9.000	-9.000	-999.	388.	74.7	0.2720	0.52	1.00	3.10	314.0	15.0	294.0	2.0	0	0.00	69.	999.	2	NAD-SFC	NoSubs
11	7	31	212	1	-31.2	0.296	-9.000	-9.000	-999.	387.	74.5	0.2720	0.52	1.00	3.10	319.0	15.0	293.2	2.0	0	0.00	70.	1000.	2	NAD-SFC	NoSubs
11	7	31	212	2	-35.6	0.347	-9.000	-9.000	-999.	490.	104.5	0.2720	0.52	1.00	3.60	323.0	15.0	292.8	2.0	0	0.00	71.	1000.	3	NAD-SFC	NoSubs
11	7	31	212	3	-30.5	0.297	-9.000	-9.000	-999.	389.	76.3	0.2720	0.52	1.00	3.10	318.0	15.0	292.2	2.0	0	0.00	70.	1000.	3	NAD-SFC	NoSubs
11	7	31	212	4	-24.5	0.246	-9.000	-9.000	-999.	294.	54.4	0.2720	0.52	1.00	2.60	322.0	15.0	292.2	2.0	0	0.00	68.	1001.	3	NAD-SFC	NoSubs
11	7	31	212	5	-15.7	0.196	-9.000	-9.000	-999.	208.	42.5	0.2720	0.52	1.00	2.10	310.0	15.0	292.4	2.0	0	0.00	66.	1001.	3	NAD-SFC	NoSubs
11	7	31	212	6	-6.9	0.137	-9.000	-9.000	-999.	123.	33.6	0.2720	0.52	0.58	1.50	322.0	15.0	292.5	2.0	0	0.00	65.	1001.	3	NAD-SFC	NoSubs
11	7	31	212	7	27.7	0.191	0.461	0.010	126.	201.	-22.6	0.2720	0.52	0.31	1.50	325.0	15.0	293.9	2.0	0	0.00	58.	1002.	3	NAD-SFC	NoSubs
11	7	31	212	8	74.2	0.108	0.793	0.010	240.	88.	-1.5	0.2930	0.52	0.23	0.50	330.0	15.0	295.4	2.0	0	0.00	56.	1002.	3	NAD-SFC	NoSubs
11	7	31	212	9	115.6	-9.000	-9.000	-9.000	380.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	297.2	2.0	0	0.00	52.	1002.	3	NAD-SFC	NoSubs
11	7	31	212	10	148.8	-9.000	-9.000	-9.000	524.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.0	2.0	0	0.00	51.	1001.	3	NAD-SFC	NoSubs
11	7	31	212	11	172.5	-9.000	-9.000	-9.000	655.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.1	2.0	0	0.00	49.	1001.	2	NAD-SFC	NoSubs
11	7	31	212	12	185.0	-9.000	-9.000	-9.000	802.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.9	2.0	0	0.00	45.	1000.	2	NAD-SFC	NoSubs
11	7	31	212	13	186.5	0.115	1.692	0.010	928.	94.	-1.0	0.2160	0.52	0.19	0.50	292.0	15.0	304.4	2.0	0	0.00	42.	1000.	2	NAD-SFC	NoSubs
11	7	31	212	14	177.0	0.120	1.714	0.010	1015.	100.	-1.0	0.2720	0.52	0.19	0.50	314.0	15.0	305.5	2.0	0	0.00	38.	999.	2	NAD-SFC	NoSubs
11	7	31	212	15	155.9	0.230	1.675	0.010	1075.	265.	-6.9	0.2720	0.52	0.19	1.50	320.0	15.0	306.2	2.0	0	0.00	35.	998.	2	NAD-SFC	NoSubs
11	7	31	212	16	124.4	0.373	1.575	0.010	1120.	546.	-37.0	0.2720	0.52	0.20	3.10	324.0	15.0	306.2	2.0	0	0.00	35.	998.	2	NAD-SFC	NoSubs
11	7	31	212	17	83.7	0.406	1.392	0.010	1148.	620.	-71.0	0.2720	0.52	0.22	3.60	305.0	15.0	305.1	2.0	0	0.00	47.	998.	2	NAD-SFC	NoSubs
11	7	31	212	18	36.2	0.500	1.055	0.010	1155.	847.	-307.0	0.2160	0.52	0.29	5.10	295.0	15.0	302.2	2.0	0	0.00	52.	999.	2	NAD-SFC	NoSubs
11	7	31	212	19	-26.2	0.474	-9.000	-9.000	-999.	784.	362.4	0.2160	0.52	0.52	5.10	276.0	15.0	298.4	2.0	0	0.00	53.	1000.	2	NAD-SFC	NoSubs
11	7	31	212	20	-48.8	0.468	-9.000	-9.000	-999.	767.	186.9	0.2160	0.52	1.00	5.10	276.0	15.0	295.8	2.0	0	0.00	55.	1000.	2	NAD-SFC	NoSubs
11	7	31	212	21	-44.1	0.420	-9.000	-9.000	-999.	655.	149.8	0.2160	0.52	1.00	4.60	278.0	15.0	294.0	2.0	0	0.00	57.	1001.	2	NAD-SFC	NoSubs
11	7	31	212	22	-29.3	0.278	-9.000	-9.000	-999.	366.	65.5	0.2160	0.52	1.00	3.10	287.0	15.0	293.0	2.0	0	0.00	58.	1001.	2	NAD-SFC	NoSubs
11	7	31	212	23	-15.7	0.196	-9.000	-9.000	-999.	211.	42.5	0.2720	0.52	1.00	2.10	307.0	15.0	292.8	2.0	0	0.00	57.	1002.	3	NAD-SFC	NoSubs
11	7	31	212	24	-25.4	0.252	-9.000	-9.000	-999.	303.	56.1	0.2930	0.52	1.00	2.60	348.0	15.0	292.4	2.0	0	0.00	57.	1002.	3	NAD-SFC	NoSubs
11	8	1	213	1	-36.6	0.355	-9.000	-9.000	-999.	507.	108.7	0.2930	0.52	1.00	3.60	359.0	15.0	291.5	2.0	0	0.00	62.	1002.	3	NAD-SFC	NoSubs
11	8	1	213	2	-31.4	0.303	-9.000	-9.000	-999.	402.	79.3	0.2930	0.52	1.00	3.10	360.0	15.0	290.9	2.0	0	0.00	64.	1002.	3	NAD-SFC	NoSubs
11	8	1	213	3	-25.5	0.252	-9.000	-9.000	-999.	304.	55.9	0.2930	0.52	1.00	2.60	349.0	15.0	290.8	2.0	0	0.00	64.	1003.	3	NAD-SFC	NoSubs
11	8	1	213	4	-16.6	0.200	-9.000	-9.000	-999.	215.	43.0	0.2930	0.52	1.00	2.10	350.0	15.0	290.6	2.0	0	0.00	63.	1003.	2	NAD-SFC	NoSubs
11	8	1	213	5	-4.0	0.102	-9.000	-9.000	-999.	83.	23.6	0.2930	0.52	1.00	1.00	347.0	15.0	290.4	2.0	0	0.00	63.	1003.	2	NAD-SFC	NoSubs
11	8	1	213	6	10.6	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.58	0.00	0.0	15.0	290.2	2.0	0	0.00	66.	1003.	2	NAD-SFC	NoSubs
11	8	1	213	7	25.3	0.092	0.451	0.012	130.	67.	-2.8	0.2720	0.52	0.31	0.50	329.0	15.0	291.9	2.0	0	0.00	61.	1003.	2	NAD-SFC	NoSubs
11	8	1	213	8	72.4	-9.000	-9.000	-9.000	244.	-999.	-99999.0	0.2235	0.52	0.23	0.00	0.0	15.0	293.8	2.0	0	0.00	58.	1003.	2	NAD-SFC	NoSubs
11	8	1	213	9	114.4	-9.000	-9.000	-9.000	382.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.1	2.0	0	0.00	50.	1003.	2	NAD-SFC	NoSubs
11	8	1	213	10	147.9	-9.000	-9.000	-9.000	509.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.0	2.0	0	0.00	47.	1002.	2	NAD-SFC	NoSubs
11	8	1	213	11	171.7	0.120	1.443	0.010	626.	99.	-1.0	0.2720	0.52	0.19	0.50	312.0	15.0	300.0	2.0	0	0.00	43.	1002.	2	NAD-SFC	NoSubs
11	8	1	213	12	184.3	-9.000	-9.000	-9.000	751.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.0	2.0	0	0.00	39.	1001.	2	NAD-SFC	NoSubs
11	8	1	213	13	185.7	0.182	1.652	0.010	867.	187.	-2.9	0.2720	0.52	0.19	1.00	329.0	15.0	303.5	2.0	0	0.00	35.	1000.	2	NAD-SFC	NoSubs
11	8	1	213	14	176.1	0.296	1.681	0.010	964.	387.	-13.2	0.2930	0.52	0.19	2.10	336.0	15.0	304.6	2.0	0	0.00	34.	1000.	2	NAD-SFC	NoSubs
11	8	1	213	15	155.0	0.340	1.648	0.011	1031.	475.	-22.5	0.2930	0.52	0.19	2.60	340.0	15.0	305.1	2.0	0	0.00	34.	999.	2	NAD-SFC	NoSubs
11	8	1	213	16	123.4	0.379	1.552	0.010	1080.	559.	-39.1	0.2930	0.52	0.20	3.10	348.0	15.0	305.2	2.0	0	0.00	35.	999.	2	NAD-SFC	NoSubs
11	8	1	213	17	83.0	0.321	1.372	0.010	1110.	438.	-35.5	0.2940	0.52	0.22	2.60	8.0	15.0	304.8	2.0	0	0.00	44.	999.	2	NAD-SFC	NoSubs
11	8	1	213	18	36.8	0.301	1.050	0.010	1124.	397.	-66.2	0.2940	0.52	0.29	2.60	14.0	15.0	304.4	2.0	0	0.00	48.	999.	2	NAD-SFC	NoSubs
11	8	1	213	19	-18.5	0.378	-9.000	-9.000	-999.	559.	261.9	0.2160	0.52	0.53	4.10	296.0	15.0	303.2	2.0	0	0.00	49.	1000.	2	NAD-SFC	NoSubs
11	8	1	213	20	-51.5	0.497	-9.000	-9.000	-999.	842.	213.3	0.1750	0.52	1.00	5.70	269.0	15.0	298.2	2.0	0	0.00	61.	1000.	2	NAD-SFC	NoSubs
11	8	1	213	21	-46.3	0.443	-9.000	-9.000	-999.	711.	167.7	0.1750	0.52	1.00	5.10	266.0	15.0	295.8	2.0	0	0.00	63.	1001.	2	NAD-SFC	NoSubs
11	8	1	213	22	-39.1	0.373	-9.000	-9.000	-999.	549.	118.1	0.2160	0.52	1.00	4.10	277.0	15.0	294.5	2.0	0	0.00	66.	1001.	2	NAD-SFC	NoSubs
11	8	1	213	23	-29.3	0.278	-9.000	-9.000	-999.	357.	65.6	0.2160	0.52	1.00	3.10	288.0	15.0	293.8	2.0	0	0.00	67.	1002.	2	NAD-SFC	NoSubs
11	8	1	213	24	-24.8	0.246	-9.000	-9.000	-999.	293.	53.7	0.2720	0.52	1.00	2.60	309.0	15.0	293.2	2.0	0	0.00	67.	1002.	2	NAD-SFC	NoSubs
11	8	2	214	1	-25.7	0.252	-9.000	-9.000	-999.	303.	55.3	0.2930	0.52	1.00	2.60	332.0	15.0	292.8	2.0	0	0.00	68.	1002.	2	NAD-SFC	NoSubs
11	8	2	214	2	-25.7	0.252	-9.000	-9.000	-999.	303.	55.2	0.2930	0.52	1.00	2.60	341.0	15.0	292.2	2.0	0	0.00	68.	1002.	2	NAD-SFC	NoSubs
11	8	2	214	3	-25.8	0.252	-9.000	-9.000	-999.	303.	55.2	0.2930	0.52	1.00	2.60	340.0	15.0	292.0	2.0	0	0.00	68.	1002.	2	NAD-SFC	NoSubs
11	8	2	214	4	-25.8	0.252	-9.000	-9.000	-999.	303.	55.2	0.2930	0.52	1.00	2.60	334.0	15.0	291.8	2.0	0	0.00	68.	1002.	2	NAD-SFC	NoSubs
11	8	2	214	5	-16.5	0.200	-9.000	-9.000	-999.	215.	43.1	0.2930	0.52	1.00	2.10	335.0	15.0	291.5	2.0	0	0.00	69.	1002.	2	NAD-SFC	NoSubs
11	8	2	214	6	-7.5	0.140	-9.000	-9.000	-999.	127.	32.7	0.2930	0.52	0.59	1.50	342.0	15.0	291.2	2.0	0	0.00	71.	1002.	2	NAD-SFC	NoSubs
11	8	2	214	7	25.1	0.192	0.451	0.011	130.	203.	-25.4	0.2930	0.52	0.31	1.50	347.0	15.0	292.6	2.0	0	0.00	68.	1003.	2	NAD-SFC	NoSubs
11	8	2	214	8	72.1	-9.000	-9.000	-9.000	267.	-999.	-99999.0	0.2235	0.52	0.23	0.00	0.0	15.0	294.2	2.0	0	0.00	64.	1002.	2	NAD-SFC	NoSubs
11	8	2	214	9	114.1	-9.000	-9.000	-9.000	397.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.5	2.0	0	0.00	57.	1002.	2	NAD-SFC	NoSubs
11	8	2	214	10	147.7	-9.000	-9.000	-9.000	533.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.2	2.0	0	0.00	53.	1001.	2	NAD-SFC	NoSubs
11	8	2	214	11	171.6	-9.000	-9.000	-9.000	658.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.5	2.0	0	0.00	48.	1001.	2	NAD-SFC	NoSubs
11	8	2	214	12	184.1	-9.000	-9.000	-9.000	764.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.2	2.0	0	0.00	43.	1000.	2	NAD-SFC	NoSubs
11	8	2	214	13	185.5	0.121	1.646	0.012	858.	101.	-1.0	0.2720	0.52	0.19	0.50	317.0	15.0	303.8	2.0	0	0.00	40.	999.	2	NAD-SFC	NoSubs
11	8	2	214	14	175.9	0.238	1.666	0.012	938.	278.	-6.8	0.2930	0.52	0.19	1.50	337.0	15.0	304.8	2.0	0	0.00	37.	999.	2	NAD-SFC	NoSubs
11	8	2	214	15	154.7	0.340	1.631	0.011	999.	475.	-22.5	0.2930	0.52	0.19	2.60	355.0	15.0	305.4	2.0	0	0.00	36.	998.	2	NAD-SFC	NoSubs
11	8	2	214	16	123.2	0.379	1.531	0.011	1039.	559.	-39.3	0.2940	0.52	0.20	3.10	4.0	15.0	305.5	2.0	0	0.00	37.	998.	2	NAD-SFC	NoSubs
11	8	2	214	17	82.7	0.321	1.352	0.010	1065.	438.	-35.5	0.2940	0.52	0.22	2.60	9.0	15.0	305.0	2.0	0	0.00	46.	998.	2	NAD-SFC	NoSubs

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11  8  2 214 18   36.3 -9.000 -9.000 -9.000 1076. -999. -99999.0 0.2235  0.52  0.30  0.00    0.0  15.0 304.6  2.0   0  0.00  50.   998.   2 NAD-SFC NoSubs
11  8  2 214 19  -20.6  0.403 -9.000 -9.000 -999.  614.    283.5 0.2720  0.52  0.53  4.10  305.0  15.0 303.5  2.0   0  0.00  51.   999.   2 NAD-SFC NoSubs
11  8  2 214 20  -51.4  0.497 -9.000 -9.000 -999.  841.    213.5 0.1750  0.52  1.00  5.70  267.0  15.0 298.5  2.0   0  0.00  62.   999.   2 NAD-SFC NoSubs
11  8  2 214 21  -48.8  0.468 -9.000 -9.000 -999.  769.    186.9 0.2160  0.52  1.00  5.10  270.0  15.0 295.8  2.0   0  0.00  66.  1000.   2 NAD-SFC NoSubs
11  8  2 214 22  -39.0  0.373 -9.000 -9.000 -999.  552.    118.1 0.2160  0.52  1.00  4.10  275.0  15.0 294.4  2.0   0  0.00  69.  1000.   2 NAD-SFC NoSubs
11  8  2 214 23  -34.2  0.325 -9.000 -9.000 -999.  447.     89.7 0.2160  0.52  1.00  3.60  281.0  15.0 293.4  2.0   0  0.00  71.  1000.   2 NAD-SFC NoSubs
11  8  2 214 24  -24.5  0.246 -9.000 -9.000 -999.  296.     54.4 0.2720  0.52  1.00  2.60  303.0  15.0 292.8  2.0   0  0.00  73.  1000.   3 NAD-SFC NoSubs
11  8  3 215  1  -16.3  0.200 -9.000 -9.000 -999.  215.     43.8 0.2930  0.52  1.00  2.10  330.0  15.0 292.5  2.0   0  0.00  73.  1001.   3 NAD-SFC NoSubs
11  8  3 215  2  -15.7  0.196 -9.000 -9.000 -999.  208.     42.5 0.2720  0.52  1.00  2.10  327.0  15.0 292.2  2.0   0  0.00  73.  1001.   3 NAD-SFC NoSubs
11  8  3 215  3  -15.7  0.196 -9.000 -9.000 -999.  208.     42.4 0.2720  0.52  1.00  2.10  320.0  15.0 292.0  2.0   0  0.00  73.  1001.   3 NAD-SFC NoSubs
11  8  3 215  4  -15.9  0.195 -9.000 -9.000 -999.  207.     41.8 0.2720  0.52  1.00  2.10  320.0  15.0 291.8  2.0   0  0.00  74.  1000.   2 NAD-SFC NoSubs
11  8  3 215  5   -8.0  0.137 -9.000 -9.000 -999.  122.     28.7 0.2720  0.52  1.00  1.50  329.0  15.0 291.2  2.0   0  0.00  75.  1000.   2 NAD-SFC NoSubs
11  8  3 215  6   -3.5  0.098 -9.000 -9.000 -999.   74.     24.0 0.2930  0.52  0.59  1.00  351.0  15.0 291.1  2.0   0  0.00  78.  1001.   2 NAD-SFC NoSubs
11  8  3 215  7   24.5  0.145  0.465  0.010  146.  133.    -11.2 0.2930  0.52  0.31  1.00  349.0  15.0 292.4  2.0   0  0.00  73.  1001.   2 NAD-SFC NoSubs
11  8  3 215  8   71.7 -9.000 -9.000 -9.000  278. -999. -99999.0 0.2235  0.52  0.23  0.00    0.0  15.0 294.2  2.0   0  0.00  68.  1001.   2 NAD-SFC NoSubs
11  8  3 215  9  113.5 -9.000 -9.000 -9.000  405. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 295.9  2.0   0  0.00  62.  1000.   2 NAD-SFC NoSubs
11  8  3 215 10  147.1 -9.000 -9.000 -9.000  542. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 297.8  2.0   0  0.00  58.  1000.   2 NAD-SFC NoSubs
11  8  3 215 11  170.9 -9.000 -9.000 -9.000  670. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 299.8  2.0   0  0.00  54.  1000.   2 NAD-SFC NoSubs
11  8  3 215 12  183.4 -9.000 -9.000 -9.000  794. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 301.4  2.0   0  0.00  49.   999.   2 NAD-SFC NoSubs
11  8  3 215 13  184.7  0.123  1.673  0.013  904.  103.     -1.0 0.2930  0.52  0.19  0.50  340.0  15.0 302.8  2.0   0  0.00  45.   998.   2 NAD-SFC NoSubs
11  8  3 215 14  175.1  0.238  1.693  0.013  988.  278.     -6.8 0.2930  0.52  0.19  1.50  349.0  15.0 304.0  2.0   0  0.00  41.   998.   2 NAD-SFC NoSubs
11  8  3 215 15  154.0  0.292  1.649  0.013 1037.  379.    -14.4 0.2930  0.52  0.19  2.10  350.0  15.0 304.8  2.0   0  0.00  37.   997.   2 NAD-SFC NoSubs
11  8  3 215 16  122.5  0.285  1.546  0.013 1074.  366.    -16.9 0.2930  0.52  0.20  2.10  353.0  15.0 305.1  2.0   0  0.00  29.   997.   2 NAD-SFC NoSubs
11  8  3 215 17   82.0  0.218  1.362  0.013 1097.  245.    -11.2 0.2930  0.52  0.22  1.50  342.0  15.0 304.8  2.0   0  0.00  36.   997.   2 NAD-SFC NoSubs
11  8  3 215 18   35.4  0.341  1.033  0.013 1106.  477.    -99.3 0.2720  0.52  0.30  3.10  305.0  15.0 304.1  2.0   0  0.00  40.   998.   2 NAD-SFC NoSubs
11  8  3 215 19  -28.1  0.473 -9.000 -9.000 -999.  781.    335.0 0.2160  0.52  0.54  5.10  284.0  15.0 300.6  2.0   0  0.00  52.   998.   2 NAD-SFC NoSubs
11  8  3 215 20  -48.6  0.468 -9.000 -9.000 -999.  767.    187.4 0.2160  0.52  1.00  5.10  271.0  15.0 296.6  2.0   0  0.00  67.   999.   2 NAD-SFC NoSubs
11  8  3 215 21  -46.3  0.443 -9.000 -9.000 -999.  708.    167.1 0.1750  0.52  1.00  5.10  267.0  15.0 294.8  2.0   0  0.00  73.   999.   2 NAD-SFC NoSubs
11  8  3 215 22  -37.1  0.353 -9.000 -9.000 -999.  509.    105.7 0.1750  0.52  1.00  4.10  257.0  15.0 293.6  2.0   0  0.00  78.  1000.   2 NAD-SFC NoSubs
11  8  3 215 23  -31.7  0.308 -9.000 -9.000 -999.  412.     82.5 0.1750  0.52  1.00  3.60  267.0  15.0 292.8  2.0   0  0.00  82.  1000.   3 NAD-SFC NoSubs
11  8  3 215 24  -14.1  0.183 -9.000 -9.000 -999.  197.     38.8 0.2160  0.52  1.00  2.10  280.0  15.0 292.4  2.0   0  0.00  83.  1000.   3 NAD-SFC NoSubs
11  8  4 216  1   -3.8  0.100 -9.000 -9.000 -999.   79.     23.3 0.2720  0.52  1.00  1.00  316.0  15.0 292.2  2.0   0  0.00  83.  1001.   3 NAD-SFC NoSubs
11  8  4 216  2   -3.8  0.100 -9.000 -9.000 -999.   76.     23.3 0.2720  0.52  1.00  1.00  329.0  15.0 292.1  2.0   0  0.00  84.  1001.   3 NAD-SFC NoSubs
11  8  4 216  3   -7.9  0.137 -9.000 -9.000 -999.  121.     29.1 0.2720  0.52  1.00  1.50  307.0  15.0 291.8  2.0   0  0.00  85.  1001.   3 NAD-SFC NoSubs
11  8  4 216  4   -7.9  0.137 -9.000 -9.000 -999.  121.     29.1 0.2720  0.52  1.00  1.50  318.0  15.0 291.4  2.0   0  0.00  87.  1002.   3 NAD-SFC NoSubs
11  8  4 216  5   -8.2  0.140 -9.000 -9.000 -999.  125.     29.9 0.2930  0.52  1.00  1.50  339.0  15.0 290.9  2.0   0  0.00  89.  1002.   3 NAD-SFC NoSubs
11  8  4 216  6   -7.5  0.140 -9.000 -9.000 -999.  126.     32.9 0.2930  0.52  0.60  1.50  352.0  15.0 290.5  2.0   0  0.00  91.  1002.   3 NAD-SFC NoSubs
11  8  4 216  7   24.9  0.293  0.559  0.009  250.  382.    -90.9 0.2930  0.52  0.32  2.60  357.0  15.0 291.2  2.0   0  0.00  81.  1003.   3 NAD-SFC NoSubs
11  8  4 216  8   70.7  0.214  0.906  0.009  376.  240.    -12.3 0.2930  0.52  0.23  1.50  353.0  15.0 292.5  2.0   0  0.00  75.  1003.   2 NAD-SFC NoSubs
11  8  4 216  9  112.5 -9.000 -9.000 -9.000  510. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 294.0  2.0   0  0.00  71.  1002.   2 NAD-SFC NoSubs
11  8  4 216 10  146.0 -9.000 -9.000 -9.000  643. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 295.5  2.0   0  0.00  66.  1002.   2 NAD-SFC NoSubs
11  8  4 216 11  169.6 -9.000 -9.000 -9.000  759. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 297.2  2.0   0  0.00  61.  1001.   2 NAD-SFC NoSubs
11  8  4 216 12  181.9 -9.000 -9.000 -9.000  866. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 298.8  2.0   0  0.00  55.  1001.   2 NAD-SFC NoSubs
11  8  4 216 13  183.1 -9.000 -9.000 -9.000  963. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 300.0  2.0   0  0.00  51.  1000.   2 NAD-SFC NoSubs
11  8  4 216 14  173.3  0.122  1.710  0.012 1031.  102.     -1.0 0.2930  0.52  0.19  0.50  347.0  15.0 301.0  2.0   0  0.00  48.  1000.   2 NAD-SFC NoSubs
11  8  4 216 15  152.0  0.233  1.666  0.012 1086.  271.     -7.4 0.2940  0.52  0.19  1.50   13.0  15.0 301.6  2.0   0  0.00  46.   999.   2 NAD-SFC NoSubs
11  8  4 216 16  120.3  0.331  1.560  0.013 1127.  458.    -27.0 0.2940  0.52  0.20  2.60    8.0  15.0 301.8  2.0   0  0.00  46.   999.   2 NAD-SFC NoSubs
11  8  4 216 17   79.9  0.366  1.372  0.013 1153.  531.    -54.7 0.2940  0.52  0.22  3.10    8.0  15.0 301.6  2.0   0  0.00  49.   999.   2 NAD-SFC NoSubs
11  8  4 216 18   34.3  0.393  1.039  0.013 1163.  591.   -157.4 0.2940  0.52  0.30  3.60   12.0  15.0 300.8  2.0   0  0.00  59.   999.   3 NAD-SFC NoSubs
11  8  4 216 19   -2.6 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  0.54  0.00    0.0  15.0 298.8  2.0   0  0.00  66.  1000.   3 NAD-SFC NoSubs
11  8  4 216 20  -39.6  0.406 -9.000 -9.000 -999.  622.    151.0 0.2930  0.52  1.00  4.10  352.0  15.0 297.0  2.0   0  0.00  72.  1000.   4 NAD-SFC NoSubs
11  8  4 216 21  -34.8  0.355 -9.000 -9.000 -999.  509.    114.6 0.2930  0.52  1.00  3.60  345.0  15.0 295.6  2.0   0  0.00  77.  1001.   4 NAD-SFC NoSubs
11  8  4 216 22  -34.9  0.355 -9.000 -9.000 -999.  507.    114.3 0.2930  0.52  1.00  3.60  345.0  15.0 294.8  2.0   0  0.00  79.  1001.   4 NAD-SFC NoSubs
11  8  4 216 23  -29.9  0.304 -9.000 -9.000 -999.  403.     83.4 0.2930  0.52  1.00  3.10  343.0  15.0 293.9  2.0   0  0.00  82.  1001.   4 NAD-SFC NoSubs
11  8  4 216 24  -30.0  0.304 -9.000 -9.000 -999.  401.     83.1 0.2930  0.52  1.00  3.10  339.0  15.0 293.0  2.0   0  0.00  84.  1001.   4 NAD-SFC NoSubs
11  8  5 217  1  -31.2  0.303 -9.000 -9.000 -999.  401.     79.7 0.2930  0.52  1.00  3.10  360.0  15.0 292.2  2.0   0  0.00  86.  1001.   3 NAD-SFC NoSubs
11  8  5 217  2  -31.3  0.304 -9.000 -9.000 -999.  401.     79.6 0.2940  0.52  1.00  3.10   12.0  15.0 291.4  2.0   0  0.00  87.  1001.   3 NAD-SFC NoSubs
11  8  5 217  3  -25.5  0.252 -9.000 -9.000 -999.  305.     55.9 0.2940  0.52  1.00  2.60   14.0  15.0 290.6  2.0   0  0.00  89.  1001.   3 NAD-SFC NoSubs
11  8  5 217  4  -16.4  0.200 -9.000 -9.000 -999.  216.     43.6 0.2940  0.52  1.00  2.10   15.0  15.0 290.0  2.0   0  0.00  90.  1001.   3 NAD-SFC NoSubs
11  8  5 217  5  -16.4  0.200 -9.000 -9.000 -999.  215.     43.6 0.2940  0.52  1.00  2.10    1.0  15.0 289.5  2.0   0  0.00  92.  1001.   3 NAD-SFC NoSubs
11  8  5 217  6   -7.6  0.140 -9.000 -9.000 -999.  127.     32.5 0.2940  0.52  0.60  1.50    5.0  15.0 289.2  2.0   0  0.00  93.  1002.   3 NAD-SFC NoSubs
11  8  5 217  7   24.0  0.192  0.467  0.007  151.  202.    -26.3 0.2940  0.52  0.32  1.50    6.0  15.0 290.0  2.0   0  0.00  84.  1002.   3 NAD-SFC NoSubs
11  8  5 217  8   70.0 -9.000 -9.000 -9.000  264. -999. -99999.0 0.2235  0.52  0.23  0.00    0.0  15.0 291.9  2.0   0  0.00  76.  1002.   2 NAD-SFC NoSubs
11  8  5 217  9  112.0 -9.000 -9.000 -9.000  388. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 293.8  2.0   0  0.00  70.  1002.   2 NAD-SFC NoSubs
11  8  5 217 10  145.6 -9.000 -9.000 -9.000  657. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 295.4  2.0   0  0.00  64.  1002.   2 NAD-SFC NoSubs
11  8  5 217 11  169.2 -9.000 -9.000 -9.000  788. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 297.2  2.0   0  0.00  59.  1001.   2 NAD-SFC NoSubs
11  8  5 217 12  181.7 -9.000 -9.000 -9.000  909. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 299.0  2.0   0  0.00  53.  1000.   2 NAD-SFC NoSubs
11  8  5 217 13  183.0 -9.000 -9.000 -9.000 1000. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 300.4  2.0   0  0.00  48.  1000.   2 NAD-SFC NoSubs
11  8  5 217 14  173.2  0.122  1.726  0.013 1061.  102.     -1.0 0.2940  0.52  0.19  0.50    2.0  15.0 301.5  2.0   0  0.00  44.   999.   2 NAD-SFC NoSubs
11  8  5 217 15  151.9  0.233  1.678  0.013 1110.  270.     -7.4 0.2940  0.52  0.19  1.50   12.0  15.0 302.2  2.0   0  0.00  41.   999.   2 NAD-SFC NoSubs
11  8  5 217 16  120.2  0.227  1.570  0.013 1148.  260.     -8.7 0.2940  0.52  0.20  1.50   20.0  15.0 302.5  2.0   0  0.00  40.   999.   2 NAD-SFC NoSubs
11  8  5 217 17   79.7  0.320  1.378  0.013 1172.  434.    -36.6 0.2940  0.52  0.22  2.60   26.0  15.0 302.4  2.0   0  0.00  42.   999.   2 NAD-SFC NoSubs
11  8  5 217 18   34.3  0.288  1.043  0.013 1182.  372.    -62.4 0.2470  0.52  0.30  2.60   31.0  15.0 301.9  2.0   0  0.00  50.   999.   3 NAD-SFC NoSubs
11  8  5 217 19  -14.9  0.256 -9.000 -9.000 -999.  311.    100.5 0.2940  0.52  0.55  2.60   11.0  15.0 301.0  2.0   0  0.00  52.  1000.   3 NAD-SFC NoSubs
11  8  5 217 20  -37.5  0.373 -9.000 -9.000 -999.  546.    123.4 0.2160  0.52  1.00  4.10  290.0  15.0 299.2  2.0   0  0.00  57.  1000.   3 NAD-SFC NoSubs
11  8  5 217 21  -45.2  0.443 -9.000 -9.000 -999.  708.    172.0 0.1750  0.52  1.00  5.10  268.0  15.0 295.2  2.0   0  0.00  74.  1001.   3 NAD-SFC NoSubs
11  8  5 217 22  -48.0  0.468 -9.000 -9.000 -999.  767.    190.4 0.2160  0.52  1.00  5.10  270.0  15.0 293.4  2.0   0  0.00  79.  1001.   3 NAD-SFC NoSubs
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11  8  5 217 23  -41.0  0.398 -9.000 -9.000 -999.  606.    137.4  0.1750  0.52  1.00   4.60  267.0  15.0  292.4   2.0    0   0.00   82.  1001.    3 NAD-SFC NoSubs
11  8  5 217 24  -38.4  0.373 -9.000 -9.000 -999.  547.    120.2  0.2160  0.52  1.00   4.10  280.0  15.0  291.8   2.0    0   0.00   84.  1001.    3 NAD-SFC NoSubs
11  8  6 218  1  -28.7  0.278 -9.000 -9.000 -999.  357.     66.9  0.2160  0.52  1.00   3.10  292.0  15.0  291.4   2.0    0   0.00   86.  1002.    3 NAD-SFC NoSubs
11  8  6 218  2  -15.8  0.196 -9.000 -9.000 -999.  210.     42.4  0.2720  0.52  1.00   2.10  325.0  15.0  291.2   2.0    0   0.00   86.  1002.    3 NAD-SFC NoSubs
11  8  6 218  3   -8.2  0.140 -9.000 -9.000 -999.  126.     29.9  0.2930  0.52  1.00   1.50  338.0  15.0  291.1   2.0    0   0.00   87.  1002.    3 NAD-SFC NoSubs
11  8  6 218  4   -4.0  0.102 -9.000 -9.000 -999.   78.     23.7  0.2930  0.52  1.00   1.00  348.0  15.0  290.8   2.0    0   0.00   88.  1002.    3 NAD-SFC NoSubs
11  8  6 218  5   -4.0  0.102 -9.000 -9.000 -999.   78.     23.7  0.2930  0.52  1.00   1.00  344.0  15.0  290.5   2.0    0   0.00   89.  1002.    3 NAD-SFC NoSubs
11  8  6 218  6   -3.6  0.098 -9.000 -9.000 -999.   74.     24.0  0.2930  0.52  0.61   1.00  346.0  15.0  290.4   2.0    0   0.00   90.  1003.    3 NAD-SFC NoSubs
11  8  6 218  7   22.5  0.191  0.507  0.007  206.  200.    -27.5  0.2930  0.52  0.32   1.50  353.0  15.0  290.9   2.0    0   0.00   87.  1003.    2 NAD-SFC NoSubs
11  8  6 218  8   69.4  0.164  0.870  0.007  339.  160.     -5.7  0.2930  0.52  0.23   1.00  346.0  15.0  291.2   2.0    0   0.00   84.  1003.    2 NAD-SFC NoSubs
11  8  6 218  9  111.1  0.112  1.152  0.008  493.   91.     -1.1  0.2720  0.52  0.20   0.50  323.0  15.0  292.0   2.0    0   0.00   81.  1003.    2 NAD-SFC NoSubs
11  8  6 218 10  144.7 -9.000 -9.000 -9.000  647. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  294.0   2.0    0   0.00   75.  1003.    2 NAD-SFC NoSubs
11  8  6 218 11  168.6 -9.000 -9.000 -9.000  780. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  296.5   2.0    0   0.00   67.  1002.    2 NAD-SFC NoSubs
11  8  6 218 12  181.2 -9.000 -9.000 -9.000  902. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  298.6   2.0    0   0.00   60.  1001.    2 NAD-SFC NoSubs
11  8  6 218 13  182.5 -9.000 -9.000 -9.000  995. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  300.2   2.0    0   0.00   54.  1001.    2 NAD-SFC NoSubs
11  8  6 218 14  172.8  0.120  1.721  0.013 1053.   99.     -1.0  0.2720  0.52  0.19   0.50  322.0  15.0  301.6   2.0    0   0.00   48.  1000.    2 NAD-SFC NoSubs
11  8  6 218 15  151.6  0.119  1.672  0.013 1101.   99.     -1.0  0.2930  0.52  0.19   0.50  356.0  15.0  302.5   2.0    0   0.00   45.  1000.    2 NAD-SFC NoSubs
11  8  6 218 16  119.9 -9.000 -9.000 -9.000 1138. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  302.9   2.0    0   0.00   43.   999.    2 NAD-SFC NoSubs
11  8  6 218 17   79.3  0.274  1.372  0.013 1162.  344.    -23.0  0.2940  0.52  0.22   2.10   15.0  15.0  302.9   2.0    0   0.00   45.   999.    2 NAD-SFC NoSubs
11  8  6 218 18   33.9  0.300  1.036  0.013 1171.  393.    -70.7  0.2940  0.52  0.30   2.60   11.0  15.0  302.4   2.0    0   0.00   53.   999.    3 NAD-SFC NoSubs
11  8  6 218 19  -25.0  0.411 -9.000 -9.000 -999.  632.    246.9  0.2940  0.52  0.56   4.10   14.0  15.0  301.1   2.0    0   0.00   58.  1000.    3 NAD-SFC NoSubs
11  8  6 218 20  -35.6  0.355 -9.000 -9.000 -999.  510.    112.2  0.2940  0.52  1.00   3.60    8.0  15.0  299.9   2.0    0   0.00   62.  1000.    3 NAD-SFC NoSubs
11  8  6 218 21  -31.6  0.326 -9.000 -9.000 -999.  447.     97.6  0.2160  0.52  1.00   3.60  296.0  15.0  298.5   2.0    0   0.00   66.  1000.    4 NAD-SFC NoSubs
11  8  6 218 22  -42.8  0.420 -9.000 -9.000 -999.  653.    154.8  0.2160  0.52  1.00   4.60  276.0  15.0  295.8   2.0    0   0.00   73.  1001.    3 NAD-SFC NoSubs
11  8  6 218 23  -33.2  0.325 -9.000 -9.000 -999.  451.     92.6  0.2160  0.52  1.00   3.60  294.0  15.0  294.8   2.0    0   0.00   76.  1001.    3 NAD-SFC NoSubs
11  8  6 218 24  -35.5  0.347 -9.000 -9.000 -999.  490.    105.0  0.2720  0.52  1.00   3.60  308.0  15.0  294.2   2.0    0   0.00   79.  1001.    3 NAD-SFC NoSubs
11  8  7 219  1  -31.1  0.303 -9.000 -9.000 -999.  402.     80.1  0.2930  0.52  1.00   3.10  341.0  15.0  293.8   2.0    0   0.00   82.  1002.    3 NAD-SFC NoSubs
11  8  7 219  2  -31.2  0.304 -9.000 -9.000 -999.  401.     80.1  0.2940  0.52  1.00   3.10    2.0  15.0  293.0   2.0    0   0.00   86.  1002.    3 NAD-SFC NoSubs
11  8  7 219  3  -25.5  0.252 -9.000 -9.000 -999.  305.     56.1  0.2940  0.52  1.00   2.60    1.0  15.0  292.2   2.0    0   0.00   89.  1002.    3 NAD-SFC NoSubs
11  8  7 219  4  -25.5  0.252 -9.000 -9.000 -999.  304.     56.0  0.2940  0.52  1.00   2.60    1.0  15.0  291.5   2.0    0   0.00   90.  1002.    3 NAD-SFC NoSubs
11  8  7 219  5  -16.4  0.200 -9.000 -9.000 -999.  215.     43.6  0.2930  0.52  1.00   2.10  358.0  15.0  290.8   2.0    0   0.00   92.  1002.    3 NAD-SFC NoSubs
11  8  7 219  6  -15.4  0.201 -9.000 -9.000 -999.  217.     47.4  0.2940  0.52  0.62   2.10    1.0  15.0  290.4   2.0    0   0.00   93.  1003.    3 NAD-SFC NoSubs
11  8  7 219  7   23.4  0.247  0.470  0.007  158.  294.    -57.3  0.2930  0.52  0.32   2.10  357.0  15.0  291.2   2.0    0   0.00   85.  1003.    3 NAD-SFC NoSubs
11  8  7 219  8   69.5  0.107  0.800  0.008  263.  100.     -1.6  0.2930  0.52  0.23   0.50  350.0  15.0  293.0   2.0    0   0.00   77.  1003.    2 NAD-SFC NoSubs
11  8  7 219  9  111.7 -9.000 -9.000 -9.000  364. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  295.0   2.0    0   0.00   70.  1002.    2 NAD-SFC NoSubs
11  8  7 219 10  145.4 -9.000 -9.000 -9.000  558. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  296.8   2.0    0   0.00   64.  1002.    2 NAD-SFC NoSubs
11  8  7 219 11  169.1 -9.000 -9.000 -9.000  782. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  298.6   2.0    0   0.00   58.  1001.    2 NAD-SFC NoSubs
11  8  7 219 12  181.6 -9.000 -9.000 -9.000  980. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  300.2   2.0    0   0.00   52.  1000.    2 NAD-SFC NoSubs
11  8  7 219 13  182.6 -9.000 -9.000 -9.000 1049. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  301.2   2.0    0   0.00   48.   999.    2 NAD-SFC NoSubs
11  8  7 219 14  172.7  0.122  1.751  0.014 1110.  102.     -1.0  0.2930  0.52  0.19   0.50  337.0  15.0  302.2   2.0    0   0.00   46.   999.    2 NAD-SFC NoSubs
11  8  7 219 15  151.2  0.181  1.701  0.014 1161.  184.     -3.5  0.2940  0.52  0.19   1.00    4.0  15.0  302.8   2.0    0   0.00   45.   998.    2 NAD-SFC NoSubs
11  8  7 219 16  119.4  0.285  1.590  0.014 1200.  366.    -17.3  0.2940  0.52  0.20   2.10    6.0  15.0  303.0   2.0    0   0.00   44.   998.    2 NAD-SFC NoSubs
11  8  7 219 17   78.6  0.319  1.393  0.014 1224.  433.    -36.9  0.2940  0.52  0.22   2.60   18.0  15.0  302.8   2.0    0   0.00   47.   998.    2 NAD-SFC NoSubs
11  8  7 219 18   32.0  0.298  1.035  0.015 1233.  392.    -74.0  0.2940  0.52  0.30   2.60   21.0  15.0  302.4   2.0    0   0.00   53.   998.    2 NAD-SFC NoSubs
11  8  7 219 19  -21.2  0.306 -9.000 -9.000 -999.  407.    120.7  0.2940  0.52  0.56   3.10   16.0  15.0  301.4   2.0    0   0.00   55.   998.    2 NAD-SFC NoSubs
11  8  7 219 20  -25.4  0.252 -9.000 -9.000 -999.  305.     56.1  0.2940  0.52  1.00   2.60    6.0  15.0  300.2   2.0    0   0.00   58.   998.    2 NAD-SFC NoSubs
11  8  7 219 21  -16.1  0.200 -9.000 -9.000 -999.  216.     44.4  0.2930  0.52  1.00   2.10  338.0  15.0  299.0   2.0    0   0.00   62.   999.    3 NAD-SFC NoSubs
11  8  7 219 22  -25.1  0.252 -9.000 -9.000 -999.  303.     56.6  0.2930  0.52  1.00   2.60  331.0  15.0  297.8   2.0    0   0.00   67.   999.    3 NAD-SFC NoSubs
11  8  7 219 23  -24.6  0.246 -9.000 -9.000 -999.  293.     54.0  0.2720  0.52  1.00   2.60  316.0  15.0  296.6   2.0    0   0.00   73.   999.    2 NAD-SFC NoSubs
11  8  7 219 24  -30.9  0.297 -9.000 -9.000 -999.  387.     75.1  0.2720  0.52  1.00   3.10  316.0  15.0  295.6   2.0    0   0.00   78.   999.    2 NAD-SFC NoSubs
11  8  8 220  1  -37.1  0.354 -9.000 -9.000 -999.  506.    107.0  0.2930  0.52  1.00   3.60  337.0  15.0  294.8   2.0    0   0.00   82.  1000.    2 NAD-SFC NoSubs
11  8  8 220  2  -37.2  0.354 -9.000 -9.000 -999.  506.    106.6  0.2930  0.52  1.00   3.60  350.0  15.0  293.6   2.0    0   0.00   88.  1000.    2 NAD-SFC NoSubs
11  8  8 220  3  -31.9  0.303 -9.000 -9.000 -999.  402.     77.7  0.2930  0.52  1.00   3.10  357.0  15.0  292.8   2.0    0   0.00   90.  1000.    2 NAD-SFC NoSubs
11  8  8 220  4  -25.7  0.252 -9.000 -9.000 -999.  304.     55.2  0.2930  0.52  1.00   2.60  354.0  15.0  292.0   2.0    0   0.00   91.  1001.    2 NAD-SFC NoSubs
11  8  8 220  5  -16.5  0.200 -9.000 -9.000 -999.  215.     43.1  0.2930  0.52  1.00   2.10  352.0  15.0  291.5   2.0    0   0.00   92.  1001.    2 NAD-SFC NoSubs
11  8  8 220  6   -3.7  0.100 -9.000 -9.000 -999.   80.     23.8  0.2930  0.52  0.62   1.00  337.0  15.0  291.1   2.0    0   0.00   93.  1002.    2 NAD-SFC NoSubs
11  8  8 220  7   21.9  0.245  0.420  0.007  121.  292.    -60.3  0.2930  0.52  0.32   2.10  356.0  15.0  292.1   2.0    0   0.00   82.  1002.    2 NAD-SFC NoSubs
11  8  8 220  8   69.3  0.107  0.749  0.008  217.   99.     -1.6  0.2930  0.52  0.23   0.50  349.0  15.0  293.9   2.0    0   0.00   74.  1002.    2 NAD-SFC NoSubs
11  8  8 220  9  111.6 -9.000 -9.000 -9.000  351. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  295.9   2.0    0   0.00   67.  1002.    2 NAD-SFC NoSubs
11  8  8 220 10  145.4 -9.000 -9.000 -9.000  548. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  297.8   2.0    0   0.00   61.  1001.    2 NAD-SFC NoSubs
11  8  8 220 11  169.1  0.113  1.524  0.009  749.   92.     -1.0  0.2160  0.52  0.19   0.50  294.0  15.0  299.4   2.0    0   0.00   55.  1001.    2 NAD-SFC NoSubs
11  8  8 220 12  181.6 -9.000 -9.000 -9.000  929. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  301.0   2.0    0   0.00   50.  1000.    2 NAD-SFC NoSubs
11  8  8 220 13  182.7 -9.000 -9.000 -9.000 1022. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  302.1   2.0    0   0.00   47.   999.    2 NAD-SFC NoSubs
11  8  8 220 14  172.7  0.122  1.737  0.013 1083.  102.     -1.0  0.2930  0.52  0.19   0.50  345.0  15.0  303.0   2.0    0   0.00   45.   999.    2 NAD-SFC NoSubs
11  8  8 220 15  151.2 -9.000 -9.000 -9.000 1134. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  303.5   2.0    0   0.00   44.   998.    2 NAD-SFC NoSubs
11  8  8 220 16  119.5 -9.000 -9.000 -9.000 1173. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  304.2   2.0    0   0.00   42.   998.    2 NAD-SFC NoSubs
11  8  8 220 17   78.7  0.319  1.383  0.013 1197.  433.    -36.9  0.2940  0.52  0.22   2.60   11.0  15.0  304.0   2.0    0   0.00   49.   998.    2 NAD-SFC NoSubs
11  8  8 220 18   31.8  0.345  1.025  0.013 1206.  486.   -114.5  0.2940  0.52  0.31   3.10    8.0  15.0  303.5   2.0    0   0.00   54.   998.    2 NAD-SFC NoSubs
11  8  8 220 19  -25.1  0.358 -9.000 -9.000 -999.  513.    161.9  0.2940  0.52  0.57   3.60    8.0  15.0  302.5   2.0    0   0.00   55.   998.    2 NAD-SFC NoSubs
11  8  8 220 20  -30.3  0.303 -9.000 -9.000 -999.  403.     82.3  0.2930  0.52  1.00   3.10  350.0  15.0  301.2   2.0    0   0.00   58.   999.    3 NAD-SFC NoSubs
11  8  8 220 21  -29.7  0.297 -9.000 -9.000 -999.  388.     78.4  0.2720  0.52  1.00   3.10  327.0  15.0  300.0   2.0    0   0.00   62.   999.    3 NAD-SFC NoSubs
11  8  8 220 22  -34.9  0.347 -9.000 -9.000 -999.  491.    106.7  0.2720  0.52  1.00   3.60  301.0  15.0  298.6   2.0    0   0.00   67.   999.    3 NAD-SFC NoSubs
11  8  8 220 23  -28.1  0.278 -9.000 -9.000 -999.  355.     68.3  0.2160  0.52  1.00   3.10  298.0  15.0  297.4   2.0    0   0.00   71.   999.    3 NAD-SFC NoSubs
11  8  8 220 24  -35.2  0.347 -9.000 -9.000 -999.  490.    105.9  0.2720  0.52  1.00   3.60  328.0  15.0  296.4   2.0    0   0.00   75.   999.    3 NAD-SFC NoSubs
11  8  9 221  1  -36.1  0.355 -9.000 -9.000 -999.  507.    110.1  0.2930  0.52  1.00   3.60  347.0  15.0  295.1   2.0    0   0.00   81.   999.    3 NAD-SFC NoSubs
11  8  9 221  2  -31.0  0.304 -9.000 -9.000 -999.  403.     80.3  0.2940  0.52  1.00   3.10    2.0  15.0  293.9   2.0    0   0.00   84.  1000.    3 NAD-SFC NoSubs
11  8  9 221  3  -31.1  0.303 -9.000 -9.000 -999.  401.     80.0  0.2930  0.52  1.00   3.10  355.0  15.0  293.1   2.0    0   0.00   86.  1000.    3 NAD-SFC NoSubs
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11  8  9 221  4  -25.4  0.252 -9.000 -9.000 -999.  304.     56.0 0.2930  0.52  1.00  2.60  351.0  15.0  292.2  2.0   0  0.00   86.  1000.   3 NAD-SFC NoSubs
11  8  9 221  5  -16.3  0.200 -9.000 -9.000 -999.  215.     43.7 0.2930  0.52  1.00  2.10  338.0  15.0  291.8  2.0   0  0.00   87.  1000.   3 NAD-SFC NoSubs
11  8  9 221  6   -7.7  0.140 -9.000 -9.000 -999.  126.     31.8 0.2930  0.52  0.63  1.50  334.0  15.0  291.4  2.0   0  0.00   87.  1001.   3 NAD-SFC NoSubs
11  8  9 221  7   22.7  0.246  0.440  0.008  133.  293.    -58.5 0.2930  0.52  0.32  2.10  353.0  15.0  292.4  2.0   0  0.00   76.  1001.   3 NAD-SFC NoSubs
11  8  9 221  8   68.9 -9.000 -9.000 -9.000  236. -999. -99999.0 0.2235  0.52  0.23  0.00    0.0  15.0  294.1  2.0   0  0.00   70.  1001.   2 NAD-SFC NoSubs
11  8  9 221  9  111.4 -9.000 -9.000 -9.000  344. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0  296.4  2.0   0  0.00   62.  1000.   2 NAD-SFC NoSubs
11  8  9 221 10  145.2 -9.000 -9.000 -9.000  511. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  298.2  2.0   0  0.00   57.  1000.   2 NAD-SFC NoSubs
11  8  9 221 11  168.9 -9.000 -9.000 -9.000  703. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  299.8  2.0   0  0.00   53.   999.   2 NAD-SFC NoSubs
11  8  9 221 12  181.4 -9.000 -9.000 -9.000  903. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  301.4  2.0   0  0.00   48.   998.   2 NAD-SFC NoSubs
11  8  9 221 13  182.6 -9.000 -9.000 -9.000 1020. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  302.8  2.0   0  0.00   44.   997.   2 NAD-SFC NoSubs
11  8  9 221 14  172.6 -9.000 -9.000 -9.000 1091. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  303.6  2.0   0  0.00   42.   997.   2 NAD-SFC NoSubs
11  8  9 221 15  151.0  0.181  1.696  0.012 1150.  184.     -3.5 0.2940  0.52  0.19  1.00   15.0  15.0  304.2  2.0   0  0.00   40.   996.   2 NAD-SFC NoSubs
11  8  9 221 16  119.1  0.285  1.587  0.012 1194.  365.    -17.3 0.2940  0.52  0.20  2.10   24.0  15.0  304.5  2.0   0  0.00   39.   996.   2 NAD-SFC NoSubs
11  8  9 221 17   78.1  0.263  1.390  0.012 1222.  324.    -20.7 0.2470  0.52  0.23  2.10   30.0  15.0  304.2  2.0   0  0.00   46.   996.   2 NAD-SFC NoSubs
11  8  9 221 18   31.2  0.298  1.027  0.013 1232.  390.    -75.3 0.2940  0.52  0.31  2.60   27.0  15.0  303.8  2.0   0  0.00   51.   996.   2 NAD-SFC NoSubs
11  8  9 221 19  -17.1  0.255 -9.000 -9.000 -999.  310.     86.0 0.2940  0.52  0.58  2.60   23.0  15.0  302.6  2.0   0  0.00   52.   996.   3 NAD-SFC NoSubs
11  8  9 221 20  -27.7  0.278 -9.000 -9.000 -999.  353.     69.3 0.2160  0.52  1.00  3.10  287.0  15.0  301.5  2.0   0  0.00   55.   997.   3 NAD-SFC NoSubs
11  8  9 221 21  -44.7  0.443 -9.000 -9.000 -999.  708.    173.1 0.1750  0.52  1.00  5.10  269.0  15.0  297.1  2.0   0  0.00   70.   997.   3 NAD-SFC NoSubs
11  8  9 221 22  -40.4  0.398 -9.000 -9.000 -999.  605.    138.7 0.1750  0.52  1.00  4.60  262.0  15.0  295.0  2.0   0  0.00   74.   997.   3 NAD-SFC NoSubs
11  8  9 221 23  -33.2  0.325 -9.000 -9.000 -999.  449.     92.4 0.2160  0.52  1.00  3.60  274.0  15.0  294.1  2.0   0  0.00   77.   997.   3 NAD-SFC NoSubs
11  8  9 221 24  -21.9  0.231 -9.000 -9.000 -999.  271.     49.9 0.2160  0.52  1.00  2.60  278.0  15.0  293.8  2.0   0  0.00   78.   997.   3 NAD-SFC NoSubs
11  8 10 222  1   -7.0  0.129 -9.000 -9.000 -999.  116.     26.9 0.2160  0.52  1.00  1.50  295.0  15.0  293.5  2.0   0  0.00   78.   997.   3 NAD-SFC NoSubs
11  8 10 222  2   -7.8  0.137 -9.000 -9.000 -999.  121.     29.2 0.2720  0.52  1.00  1.50  302.0  15.0  293.2  2.0   0  0.00   78.   998.   3 NAD-SFC NoSubs
11  8 10 222  3   -3.8  0.100 -9.000 -9.000 -999.   76.     23.3 0.2720  0.52  1.00  1.00  307.0  15.0  293.1  2.0   0  0.00   80.   998.   3 NAD-SFC NoSubs
11  8 10 222  4   -3.8  0.100 -9.000 -9.000 -999.   76.     23.3 0.2720  0.52  1.00  1.00  313.0  15.0  292.8  2.0   0  0.00   82.   998.   3 NAD-SFC NoSubs
11  8 10 222  5   -3.8  0.100 -9.000 -9.000 -999.   76.     23.3 0.2720  0.52  1.00  1.00  300.0  15.0  292.2  2.0   0  0.00   84.   998.   3 NAD-SFC NoSubs
11  8 10 222  6   -6.7  0.129 -9.000 -9.000 -999.  111.     28.3 0.2160  0.52  0.63  1.50  298.0  15.0  292.0  2.0   0  0.00   85.   999.   3 NAD-SFC NoSubs
11  8 10 222  7   22.5  0.191  0.472  0.008  166.  200.    -27.4 0.2930  0.52  0.33  1.50  352.0  15.0  293.2  2.0   0  0.00   78.   999.   3 NAD-SFC NoSubs
11  8 10 222  8   69.5 -9.000 -9.000 -9.000  308. -999. -99999.0 0.2235  0.52  0.23  0.00    0.0  15.0  294.8  2.0   0  0.00   70.   999.   3 NAD-SFC NoSubs
11  8 10 222  9  111.4 -9.000 -9.000 -9.000  449. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0  296.4  2.0   0  0.00   64.   999.   3 NAD-SFC NoSubs
11  8 10 222 10  144.8 -9.000 -9.000 -9.000  600. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  298.0  2.0   0  0.00   59.   999.   2 NAD-SFC NoSubs
11  8 10 222 11  168.5 -9.000 -9.000 -9.000  770. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  299.8  2.0   0  0.00   54.   998.   2 NAD-SFC NoSubs
11  8 10 222 12  180.9 -9.000 -9.000 -9.000  936. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  301.2  2.0   0  0.00   49.   998.   2 NAD-SFC NoSubs
11  8 10 222 13  182.1 -9.000 -9.000 -9.000 1044. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  302.4  2.0   0  0.00   46.   997.   2 NAD-SFC NoSubs
11  8 10 222 14  172.0  0.122  1.759  0.012 1126.  102.     -1.0 0.2930  0.52  0.19  0.50  330.0  15.0  303.4  2.0   0  0.00   42.   997.   2 NAD-SFC NoSubs
11  8 10 222 15  150.4 -9.000 -9.000 -9.000 1194. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  304.0  2.0   0  0.00   40.   996.   2 NAD-SFC NoSubs
11  8 10 222 16  118.4  0.227  1.606  0.013 1245.  259.     -8.8 0.2940  0.52  0.20  1.50   13.0  15.0  304.2  2.0   0  0.00   39.   996.   2 NAD-SFC NoSubs
11  8 10 222 17   78.2  0.273  1.411  0.013 1277.  343.    -23.2 0.2940  0.52  0.23  2.10   22.0  15.0  304.2  2.0   0  0.00   43.   996.   3 NAD-SFC NoSubs
11  8 10 222 18   31.8  0.253  1.048  0.013 1288.  305.    -45.1 0.2940  0.52  0.31  2.10   11.0  15.0  303.9  2.0   0  0.00   49.   997.   3 NAD-SFC NoSubs
11  8 10 222 19  -23.0  0.328 -9.000 -9.000 -999.  451.    136.5 0.2160  0.52  0.58  3.60  294.0  15.0  302.8  2.0   0  0.00   52.   997.   3 NAD-SFC NoSubs
11  8 10 222 20  -47.1  0.468 -9.000 -9.000 -999.  768.    193.5 0.2160  0.52  1.00  5.10  273.0  15.0  298.0  2.0   0  0.00   68.   998.   3 NAD-SFC NoSubs
11  8 10 222 21  -45.0  0.443 -9.000 -9.000 -999.  709.    172.2 0.1750  0.52  1.00  5.10  268.0  15.0  295.5  2.0   0  0.00   72.   998.   3 NAD-SFC NoSubs
11  8 10 222 22  -36.0  0.353 -9.000 -9.000 -999.  509.    108.8 0.1750  0.52  1.00  4.10  261.0  15.0  294.2  2.0   0  0.00   76.   999.   3 NAD-SFC NoSubs
11  8 10 222 23  -36.1  0.353 -9.000 -9.000 -999.  504.    108.5 0.1750  0.52  1.00  4.10  261.0  15.0  293.4  2.0   0  0.00   79.   999.   3 NAD-SFC NoSubs
11  8 10 222 24  -26.1  0.264 -9.000 -9.000 -999.  329.     62.7 0.1750  0.52  1.00  3.10  268.0  15.0  292.8  2.0   0  0.00   81.  1000.   4 NAD-SFC NoSubs
11  8 11 223  1   -6.9  0.129 -9.000 -9.000 -999.  124.     27.3 0.2160  0.52  1.00  1.50  294.0  15.0  292.4  2.0   0  0.00   82.  1000.   4 NAD-SFC NoSubs
11  8 11 223  2   -1.5  0.081 -9.000 -9.000 -999.   56.     31.2 0.2720  0.52  1.00  0.50  318.0  15.0  292.2  2.0   0  0.00   82.  1000.   4 NAD-SFC NoSubs
11  8 11 223  3   -3.7  0.099 -9.000 -9.000 -999.   75.     23.3 0.2720  0.52  1.00  1.00  312.0  15.0  292.0  2.0   0  0.00   83.  1001.   4 NAD-SFC NoSubs
11  8 11 223  4   -3.7  0.099 -9.000 -9.000 -999.   75.     23.3 0.2720  0.52  1.00  1.00  311.0  15.0  291.8  2.0   0  0.00   83.  1001.   4 NAD-SFC NoSubs
11  8 11 223  5   -7.7  0.137 -9.000 -9.000 -999.  121.     29.6 0.2720  0.52  1.00  1.50  323.0  15.0  291.4  2.0   0  0.00   84.  1001.   4 NAD-SFC NoSubs
11  8 11 223  6   -7.5  0.137 -9.000 -9.000 -999.  122.     30.5 0.2720  0.52  0.64  1.50  317.0  15.0  291.1  2.0   0  0.00   86.  1001.   3 NAD-SFC NoSubs
11  8 11 223  7   21.6  0.190  0.460  0.007  160.  199.    -28.3 0.2930  0.52  0.33  1.50  335.0  15.0  292.1  2.0   0  0.00   80.  1002.   3 NAD-SFC NoSubs
11  8 11 223  8   68.7 -9.000 -9.000 -9.000  328. -999. -99999.0 0.2235  0.52  0.23  0.00    0.0  15.0  293.6  2.0   0  0.00   74.  1002.   3 NAD-SFC NoSubs
11  8 11 223  9  110.6 -9.000 -9.000 -9.000  491. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0  295.2  2.0   0  0.00   68.  1001.   3 NAD-SFC NoSubs
11  8 11 223 10  144.0 -9.000 -9.000 -9.000  645. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  296.8  2.0   0  0.00   63.  1001.   3 NAD-SFC NoSubs
11  8 11 223 11  167.6 -9.000 -9.000 -9.000  773. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  298.5  2.0   0  0.00   59.  1001.   3 NAD-SFC NoSubs
11  8 11 223 12  180.1 -9.000 -9.000 -9.000  890. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  300.2  2.0   0  0.00   53.  1000.   2 NAD-SFC NoSubs
11  8 11 223 13  181.3 -9.000 -9.000 -9.000  995. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  301.8  2.0   0  0.00   48.   999.   2 NAD-SFC NoSubs
11  8 11 223 14  171.2  0.122  1.733  0.010 1084.  102.     -1.0 0.2930  0.52  0.19  0.50  344.0  15.0  302.8  2.0   0  0.00   45.   999.   2 NAD-SFC NoSubs
11  8 11 223 15  149.5 -9.000 -9.000 -9.000 1157. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0  303.2  2.0   0  0.00   43.   998.   2 NAD-SFC NoSubs
11  8 11 223 16  117.4  0.285  1.586  0.011 1211.  365.    -17.5 0.2940  0.52  0.20  2.10    6.0  15.0  303.6  2.0   0  0.00   42.   998.   2 NAD-SFC NoSubs
11  8 11 223 17   77.1  0.319  1.391  0.011 1244.  432.    -37.4 0.2940  0.52  0.23  2.60   18.0  15.0  303.4  2.0   0  0.00   47.   998.   3 NAD-SFC NoSubs
11  8 11 223 18   30.6  0.344  1.025  0.011 1256.  484.   -118.5 0.2940  0.52  0.31  3.10   19.0  15.0  302.9  2.0   0  0.00   54.   998.   3 NAD-SFC NoSubs
11  8 11 223 19  -26.6  0.357 -9.000 -9.000 -999.  512.    152.8 0.2940  0.52  0.59  3.60    6.0  15.0  301.8  2.0   0  0.00   56.   999.   3 NAD-SFC NoSubs
11  8 11 223 20  -29.6  0.297 -9.000 -9.000 -999.  390.     78.6 0.2720  0.52  1.00  3.10  309.0  15.0  300.8  2.0   0  0.00   59.   999.   3 NAD-SFC NoSubs
11  8 11 223 21  -47.3  0.468 -9.000 -9.000 -999.  768.    192.9 0.2160  0.52  1.00  5.10  271.0  15.0  297.1  2.0   0  0.00   71.  1000.   3 NAD-SFC NoSubs
11  8 11 223 22  -45.2  0.443 -9.000 -9.000 -999.  709.    171.7 0.1750  0.52  1.00  5.10  268.0  15.0  294.8  2.0   0  0.00   76.  1000.   3 NAD-SFC NoSubs
11  8 11 223 23  -31.5  0.308 -9.000 -9.000 -999.  424.     82.9 0.1750  0.52  1.00  3.60  266.0  15.0  294.1  2.0   0  0.00   78.  1000.   3 NAD-SFC NoSubs
11  8 11 223 24  -21.6  0.231 -9.000 -9.000 -999.  270.     51.0 0.2160  0.52  1.00  2.60  283.0  15.0  293.9  2.0   0  0.00   79.  1001.   4 NAD-SFC NoSubs
11  8 12 224  1  -30.4  0.297 -9.000 -9.000 -999.  388.     76.7 0.2720  0.52  1.00  3.10  313.0  15.0  293.8  2.0   0  0.00   80.  1001.   3 NAD-SFC NoSubs
11  8 12 224  2  -35.6  0.347 -9.000 -9.000 -999.  490.    104.8 0.2720  0.52  1.00  3.60  328.0  15.0  293.5  2.0   0  0.00   83.  1001.   3 NAD-SFC NoSubs
11  8 12 224  3  -31.1  0.303 -9.000 -9.000 -999.  402.     79.9 0.2930  0.52  1.00  3.10  337.0  15.0  293.0  2.0   0  0.00   87.  1001.   3 NAD-SFC NoSubs
11  8 12 224  4  -25.4  0.252 -9.000 -9.000 -999.  304.     56.0 0.2930  0.52  1.00  2.60  349.0  15.0  292.2  2.0   0  0.00   90.  1001.   3 NAD-SFC NoSubs
11  8 12 224  5  -16.3  0.200 -9.000 -9.000 -999.  215.     43.7 0.2930  0.52  1.00  2.10  347.0  15.0  291.8  2.0   0  0.00   92.  1001.   3 NAD-SFC NoSubs
11  8 12 224  6   -7.8  0.140 -9.000 -9.000 -999.  126.     31.2 0.2930  0.52  0.65  1.50  346.0  15.0  291.2  2.0   0  0.00   92.  1002.   3 NAD-SFC NoSubs
11  8 12 224  7   21.1  0.245  0.457  0.007  161.  291.    -62.1 0.2930  0.52  0.33  2.10  359.0  15.0  291.9  2.0   0  0.00   83.  1002.   3 NAD-SFC NoSubs
11  8 12 224  8   68.2 -9.000 -9.000 -9.000  278. -999. -99999.0 0.2235  0.52  0.23  0.00    0.0  15.0  293.6  2.0   0  0.00   76.  1002.   3 NAD-SFC NoSubs
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11	8	12	224	9	110.3	-9.000	-9.000	-9.000	391.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	295.5	2.0	0	0.00	69.	1002.	3	NAD-SFC	NoSubs
11	8	12	224	10	143.8	-9.000	-9.000	-9.000	582.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.4	2.0	0	0.00	63.	1001.	2	NAD-SFC	NoSubs
11	8	12	224	11	167.6	-9.000	-9.000	-9.000	784.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.2	2.0	0	0.00	57.	1001.	2	NAD-SFC	NoSubs
11	8	12	224	12	180.0	-9.000	-9.000	-9.000	975.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.9	2.0	0	0.00	52.	1000.	2	NAD-SFC	NoSubs
11	8	12	224	13	181.1	-9.000	-9.000	-9.000	1042.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.1	2.0	0	0.00	49.	999.	2	NAD-SFC	NoSubs
11	8	12	224	14	170.9	0.120	1.742	0.013	1102.	99.	-1.0	0.2720	0.52	0.19	0.50	329.0	15.0	303.0	2.0	0	0.00	46.	998.	2	NAD-SFC	NoSubs
11	8	12	224	15	149.1	0.180	1.689	0.014	1151.	184.	-3.5	0.2930	0.52	0.19	1.00	346.0	15.0	303.5	2.0	0	0.00	45.	998.	2	NAD-SFC	NoSubs
11	8	12	224	16	116.9	-9.000	-9.000	-9.000	1189.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	303.8	2.0	0	0.00	45.	997.	2	NAD-SFC	NoSubs
11	8	12	224	17	75.7	0.273	1.371	0.014	1212.	341.	-23.8	0.2940	0.52	0.23	2.10	18.0	15.0	303.5	2.0	0	0.00	51.	997.	2	NAD-SFC	NoSubs
11	8	12	224	18	28.6	0.296	0.994	0.014	1220.	387.	-80.9	0.2940	0.52	0.32	2.60	22.0	15.0	303.0	2.0	0	0.00	56.	997.	2	NAD-SFC	NoSubs
11	8	12	224	19	-19.5	0.254	-9.000	-9.000	-999.	308.	74.8	0.2940	0.52	0.60	2.60	26.0	15.0	301.9	2.0	0	0.00	58.	998.	3	NAD-SFC	NoSubs
11	8	12	224	20	-3.8	0.101	-9.000	-9.000	-999.	99.	23.7	0.2930	0.52	1.00	1.00	349.0	15.0	300.8	2.0	0	0.00	62.	998.	3	NAD-SFC	NoSubs
11	8	12	224	21	-37.4	0.373	-9.000	-9.000	-999.	546.	123.3	0.2160	0.52	1.00	4.10	275.0	15.0	299.1	2.0	0	0.00	67.	999.	3	NAD-SFC	NoSubs
11	8	12	224	22	-42.6	0.420	-9.000	-9.000	-999.	653.	155.1	0.2160	0.52	1.00	4.60	282.0	15.0	296.1	2.0	0	0.00	75.	999.	3	NAD-SFC	NoSubs
11	8	12	224	23	-33.1	0.325	-9.000	-9.000	-999.	451.	92.7	0.2160	0.52	1.00	3.60	281.0	15.0	294.9	2.0	0	0.00	76.	999.	3	NAD-SFC	NoSubs
11	8	12	224	24	-21.9	0.231	-9.000	-9.000	-999.	271.	50.0	0.2160	0.52	1.00	2.60	292.0	15.0	294.2	2.0	0	0.00	77.	999.	3	NAD-SFC	NoSubs
11	8	13	225	1	-7.1	0.129	-9.000	-9.000	-999.	116.	26.9	0.2160	0.52	1.00	1.50	282.0	15.0	294.1	2.0	0	0.00	77.	1000.	3	NAD-SFC	NoSubs
11	8	13	225	2	-6.5	0.122	-9.000	-9.000	-999.	103.	25.1	0.1750	0.52	1.00	1.50	265.0	15.0	293.8	2.0	0	0.00	78.	1000.	3	NAD-SFC	NoSubs
11	8	13	225	3	-7.2	0.129	-9.000	-9.000	-999.	111.	26.6	0.2160	0.52	1.00	1.50	273.0	15.0	293.5	2.0	0	0.00	79.	1000.	2	NAD-SFC	NoSubs
11	8	13	225	4	-3.6	0.097	-9.000	-9.000	-999.	72.	22.4	0.2160	0.52	1.00	1.00	295.0	15.0	293.2	2.0	0	0.00	81.	1000.	2	NAD-SFC	NoSubs
11	8	13	225	5	-3.6	0.097	-9.000	-9.000	-999.	72.	22.4	0.2160	0.52	1.00	1.00	299.0	15.0	292.8	2.0	0	0.00	84.	1000.	2	NAD-SFC	NoSubs
11	8	13	225	6	-3.7	0.099	-9.000	-9.000	-999.	75.	23.4	0.2720	0.52	0.65	1.00	313.0	15.0	292.2	2.0	0	0.00	87.	1000.	2	NAD-SFC	NoSubs
11	8	13	225	7	19.7	0.188	0.399	0.009	115.	196.	-30.3	0.2930	0.52	0.33	1.50	346.0	15.0	293.2	2.0	0	0.00	84.	1000.	2	NAD-SFC	NoSubs
11	8	13	225	8	67.4	-9.000	-9.000	-9.000	256.	-999.	-99999.0	0.2235	0.52	0.23	0.00	0.0	15.0	295.0	2.0	0	0.00	78.	1000.	2	NAD-SFC	NoSubs
11	8	13	225	9	110.0	-9.000	-9.000	-9.000	380.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	297.2	2.0	0	0.00	70.	1000.	2	NAD-SFC	NoSubs
11	8	13	225	10	144.1	-9.000	-9.000	-9.000	559.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.1	2.0	0	0.00	65.	1000.	2	NAD-SFC	NoSubs
11	8	13	225	11	168.0	-9.000	-9.000	-9.000	716.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.0	2.0	0	0.00	57.	999.	2	NAD-SFC	NoSubs
11	8	13	225	12	180.5	-9.000	-9.000	-9.000	850.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.8	2.0	0	0.00	51.	998.	2	NAD-SFC	NoSubs
11	8	13	225	13	181.7	-9.000	-9.000	-9.000	967.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	304.1	2.0	0	0.00	45.	998.	2	NAD-SFC	NoSubs
11	8	13	225	14	171.6	0.120	1.703	0.013	1026.	99.	-1.0	0.2720	0.52	0.19	0.50	316.0	15.0	305.2	2.0	0	0.00	40.	997.	2	NAD-SFC	NoSubs
11	8	13	225	15	149.9	0.180	1.653	0.013	1073.	184.	-3.5	0.2930	0.52	0.19	1.00	352.0	15.0	306.0	2.0	0	0.00	38.	997.	2	NAD-SFC	NoSubs
11	8	13	225	16	117.5	0.227	1.541	0.012	1108.	259.	-8.8	0.2940	0.52	0.20	1.50	10.0	15.0	306.0	2.0	0	0.00	37.	996.	2	NAD-SFC	NoSubs
11	8	13	225	17	76.1	0.216	1.342	0.012	1129.	241.	-11.8	0.2940	0.52	0.23	1.50	28.0	15.0	305.8	2.0	0	0.00	41.	996.	2	NAD-SFC	NoSubs
11	8	13	225	18	29.2	0.188	0.977	0.012	1137.	196.	-20.4	0.2470	0.52	0.32	1.50	34.0	15.0	305.5	2.0	0	0.00	45.	997.	2	NAD-SFC	NoSubs
11	8	13	225	19	-17.7	0.233	-9.000	-9.000	-999.	270.	63.4	0.2160	0.52	0.61	2.60	288.0	15.0	304.6	2.0	0	0.00	47.	998.	3	NAD-SFC	NoSubs
11	8	13	225	20	-48.0	0.468	-9.000	-9.000	-999.	768.	189.8	0.2160	0.52	1.00	5.10	277.0	15.0	300.2	2.0	0	0.00	62.	998.	2	NAD-SFC	NoSubs
11	8	13	225	21	-43.5	0.420	-9.000	-9.000	-999.	655.	151.6	0.2160	0.52	1.00	4.60	273.0	15.0	297.4	2.0	0	0.00	68.	998.	2	NAD-SFC	NoSubs
11	8	13	225	22	-33.8	0.325	-9.000	-9.000	-999.	451.	90.6	0.2160	0.52	1.00	3.60	280.0	15.0	296.2	2.0	0	0.00	70.	999.	2	NAD-SFC	NoSubs
11	8	13	225	23	-22.1	0.231	-9.000	-9.000	-999.	270.	49.3	0.2160	0.52	1.00	2.60	289.0	15.0	295.5	2.0	0	0.00	70.	999.	2	NAD-SFC	NoSubs
11	8	13	225	24	-7.9	0.137	-9.000	-9.000	-999.	125.	28.9	0.2720	0.52	1.00	1.50	313.0	15.0	295.1	2.0	0	0.00	70.	999.	2	NAD-SFC	NoSubs
11	8	14	226	1	-3.9	0.100	-9.000	-9.000	-999.	77.	23.3	0.2720	0.52	1.00	1.00	311.0	15.0	294.8	2.0	0	0.00	71.	999.	2	NAD-SFC	NoSubs
11	8	14	226	2	-7.9	0.137	-9.000	-9.000	-999.	122.	28.9	0.2720	0.52	1.00	1.50	305.0	15.0	294.5	2.0	0	0.00	72.	999.	2	NAD-SFC	NoSubs
11	8	14	226	3	-7.1	0.129	-9.000	-9.000	-999.	111.	26.6	0.2160	0.52	1.00	1.50	296.0	15.0	294.2	2.0	0	0.00	73.	999.	2	NAD-SFC	NoSubs
11	8	14	226	4	-7.9	0.137	-9.000	-9.000	-999.	122.	28.8	0.2720	0.52	1.00	1.50	308.0	15.0	294.0	2.0	0	0.00	76.	1000.	2	NAD-SFC	NoSubs
11	8	14	226	5	-7.9	0.137	-9.000	-9.000	-999.	122.	28.8	0.2720	0.52	1.00	1.50	306.0	15.0	293.6	2.0	0	0.00	78.	1000.	2	NAD-SFC	NoSubs
11	8	14	226	6	-7.7	0.137	-9.000	-9.000	-999.	121.	29.7	0.2720	0.52	0.66	1.50	316.0	15.0	293.2	2.0	0	0.00	81.	1000.	2	NAD-SFC	NoSubs
11	8	14	226	7	19.5	0.243	0.416	0.009	131.	288.	-65.8	0.2930	0.52	0.33	2.10	350.0	15.0	294.1	2.0	0	0.00	78.	1000.	2	NAD-SFC	NoSubs
11	8	14	226	8	67.1	0.213	0.810	0.009	282.	235.	-12.8	0.2930	0.52	0.23	1.50	342.0	15.0	295.8	2.0	0	0.00	71.	1000.	2	NAD-SFC	NoSubs
11	8	14	226	9	109.7	0.112	1.080	0.009	409.	95.	-1.1	0.2720	0.52	0.20	0.50	324.0	15.0	297.4	2.0	0	0.00	65.	1000.	2	NAD-SFC	NoSubs
11	8	14	226	10	143.7	-9.000	-9.000	-9.000	547.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.1	2.0	0	0.00	59.	1000.	2	NAD-SFC	NoSubs
11	8	14	226	11	167.4	-9.000	-9.000	-9.000	677.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.8	2.0	0	0.00	55.	999.	2	NAD-SFC	NoSubs
11	8	14	226	12	179.9	0.122	1.599	0.010	811.	103.	-1.0	0.2930	0.52	0.19	0.50	330.0	15.0	302.2	2.0	0	0.00	51.	998.	2	NAD-SFC	NoSubs
11	8	14	226	13	180.9	0.239	1.675	0.011	927.	280.	-6.7	0.2930	0.52	0.19	1.50	338.0	15.0	303.5	2.0	0	0.00	48.	998.	2	NAD-SFC	NoSubs
11	8	14	226	14	170.7	0.343	1.691	0.011	1009.	482.	-21.0	0.2930	0.52	0.19	2.60	338.0	15.0	304.5	2.0	0	0.00	45.	997.	2	NAD-SFC	NoSubs
11	8	14	226	15	148.8	0.430	1.645	0.010	1065.	677.	-47.6	0.2930	0.52	0.19	3.60	352.0	15.0	304.9	2.0	0	0.00	44.	996.	2	NAD-SFC	NoSubs
11	8	14	226	16	116.2	0.468	1.535	0.010	1106.	768.	-78.3	0.2930	0.52	0.20	4.10	357.0	15.0	304.9	2.0	0	0.00	45.	996.	2	NAD-SFC	NoSubs
11	8	14	226	17	74.9	0.318	1.336	0.010	1132.	448.	-38.3	0.2930	0.52	0.23	2.60	357.0	15.0	304.8	2.0	0	0.00	55.	996.	2	NAD-SFC	NoSubs
11	8	14	226	18	27.5	0.389	0.960	0.010	1140.	582.	-189.5	0.2930	0.52	0.32	3.60	355.0	15.0	304.0	2.0	0	0.00	58.	996.	2	NAD-SFC	NoSubs
11	8	14	226	19	-35.0	0.407	-9.000	-9.000	-999.	624.	171.8	0.2930	0.52	0.62	4.10	336.0	15.0	302.1	2.0	0	0.00	62.	997.	2	NAD-SFC	NoSubs
11	8	14	226	20	-41.6	0.406	-9.000	-9.000	-999.	621.	142.9	0.2930	0.52	1.00	4.10	332.0	15.0	300.0	2.0	0	0.00	66.	997.	2	NAD-SFC	NoSubs
11	8	14	226	21	-36.5	0.355	-9.000	-9.000	-999.	508.	108.5	0.2930	0.52	1.00	3.60	333.0	15.0	298.8	2.0	0	0.00	68.	998.	2	NAD-SFC	NoSubs
11	8	14	226	22	-35.9	0.347	-9.000	-9.000	-999.	490.	103.5	0.2720	0.52	1.00	3.60	318.0	15.0	297.8	2.0	0	0.00	70.	998.	2	NAD-SFC	NoSubs
11	8	14	226	23	-30.0	0.297	-9.000	-9.000	-999.	389.	77.6	0.2720	0.52	1.00	3.10	323.0	15.0	297.0	2.0	0	0.00	71.	998.	3	NAD-SFC	NoSubs
11	8	14	226	24	-25.2	0.252	-9.000	-9.000	-999.	304.	56.5	0.2930	0.52	1.00	2.60	335.0	15.0	296.2	2.0	0	0.00	73.	998.	3	NAD-SFC	NoSubs
11	8	15	227	1	-16.2	0.200	-9.000	-9.000	-999.	216.	44.1	0.2930	0.52	1.00	2.10	337.0	15.0	295.4	2.0	0	0.00	74.	998.	3	NAD-SFC	NoSubs
11	8	15	227	2	-7.8	0.137	-9.000	-9.000	-999.	122.	29.2	0.2720	0.52	1.00	1.50	317.0	15.0	294.6	2.0	0	0.00	75.	999.	3	NAD-SFC	NoSubs
11	8	15	227	3	-3.5	0.096	-9.000	-9.000	-999.	71.	22.4	0.2160	0.52	1.00	1.00	296.0	15.0	293.9	2.0	0	0.00	75.	999.	3	NAD-SFC	NoSubs
11	8	15	227	4	-3.5	0.096	-9.000	-9.000	-999.	71.	22.4	0.2160	0.52	1.00	1.00	295.0	15.0	293.2	2.0	0	0.00	76.	999.	3	NAD-SFC	NoSubs
11	8	15	227	5	-1.5	0.081	-9.000	-9.000	-999.	55.	31.4	0.2160	0.52	1.00	0.50	292.0	15.0	292.8	2.0	0	0.00	77.	999.	2	NAD-SFC	NoSubs
11	8	15	227	6	-1.4	0.079	-9.000	-9.000	-999.	53.	30.8	0.2160	0.52	0.67	0.50	278.0	15.0	292.4	2.0	0	0.00	79.	1000.	2	NAD-SFC	NoSubs
11	8	15	227	7	18.6	0.187	0.425	0.011	147.	195.	-31.5	0.2930	0.52	0.34	1.50	347.0	15.0	293.1	2.0	0	0.00	74.	1000.	2	NAD-SFC	NoSubs
11	8	15	227	8	66.3	-9.000	-9.000	-9.000	258.	-999.	-99999.0	0.2235	0.52	0.23	0.00	0.0	15.0	294.8	2.0	0	0.00	68.	1000.	2	NAD-SFC	NoSubs
11	8	15	227	9	108.8	-9.000	-9.000	-9.000	357.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.2	2.0	0	0.00	62.	1000.	2	NAD-SFC	NoSubs
11	8	15	227	10	142.8	-9.000	-9.000	-9.000	505.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.1	2.0	0	0.00	54.	1000.	2	NAD-SFC	NoSubs
11	8	15	227	11	166.6	-9.000	-9.000	-9.000	656.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.8	2.0	0	0.00	48.	999.	2	NAD-SFC	NoSubs
11	8	15	227	12	179.1	0.114	1.637	0.009	874.	93.	-1.0	0.2160	0.52	0.19	0.50	293.0	15.0	301.4	2.0	0	0.00	42.	999.	2	NAD-SFC	NoSubs
11	8	15	227	13	180.0	0.182	1.723	0.010	1012.	186.	-3.0	0.2720	0.52	0.19	1.00	303.0	15.0	302.6	2.0	0	0.00	38.	998.	2	NAD-SFC	NoSubs

11	8	15	227	14	169.6	0.233	1.730	0.010	1089.	270.	-6.6	0.2720	0.52	0.19	1.50	317.0	15.0	303.4	2.0	0	0.00	35.	998.	2	NAD-SFC	NoSubs
11	8	15	227	15	147.6	0.338	1.683	0.011	1151.	472.	-23.3	0.2930	0.52	0.19	2.60	345.0	15.0	303.9	2.0	0	0.00	33.	998.	2	NAD-SFC	NoSubs
11	8	15	227	16	115.0	0.376	1.570	0.011	1197.	554.	-41.2	0.2930	0.52	0.20	3.10	352.0	15.0	303.9	2.0	0	0.00	33.	997.	2	NAD-SFC	NoSubs
11	8	15	227	17	73.3	-9.000	-9.000	-9.000	1223.	-999.	-99999.0	0.2235	0.52	0.23	0.00	0.0	15.0	303.1	2.0	0	0.00	43.	998.	2	NAD-SFC	NoSubs
11	8	15	227	18	25.9	0.341	0.964	0.011	1232.	478.	-136.4	0.2940	0.52	0.32	3.10	12.0	15.0	302.4	2.0	0	0.00	47.	998.	2	NAD-SFC	NoSubs
11	8	15	227	19	0.3	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.63	0.00	0.0	15.0	301.2	2.0	0	0.00	49.	998.	2	NAD-SFC	NoSubs
11	8	15	227	20	-25.3	0.252	-9.000	-9.000	-999.	303.	56.1	0.2930	0.52	1.00	2.60	354.0	15.0	300.1	2.0	0	0.00	52.	998.	2	NAD-SFC	NoSubs
11	8	15	227	21	-24.5	0.246	-9.000	-9.000	-999.	293.	54.3	0.2720	0.52	1.00	2.60	316.0	15.0	298.8	2.0	0	0.00	57.	998.	2	NAD-SFC	NoSubs
11	8	15	227	22	-15.7	0.195	-9.000	-9.000	-999.	208.	42.3	0.2720	0.52	1.00	2.10	314.0	15.0	297.8	2.0	0	0.00	62.	998.	2	NAD-SFC	NoSubs
11	8	15	227	23	-15.7	0.195	-9.000	-9.000	-999.	207.	42.2	0.2720	0.52	1.00	2.10	312.0	15.0	296.8	2.0	0	0.00	65.	998.	2	NAD-SFC	NoSubs
11	8	15	227	24	-30.9	0.297	-9.000	-9.000	-999.	388.	75.2	0.2720	0.52	1.00	3.10	318.0	15.0	295.8	2.0	0	0.00	69.	998.	2	NAD-SFC	NoSubs
11	8	16	228	1	-37.1	0.354	-9.000	-9.000	-999.	506.	106.9	0.2930	0.52	1.00	3.60	346.0	15.0	294.5	2.0	0	0.00	76.	999.	2	NAD-SFC	NoSubs
11	8	16	228	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	293.2	2.0	0	0.00	82.	999.	2	NAD-SFC	NoSubs
11	8	16	228	3	-32.0	0.303	-9.000	-9.000	-999.	401.	77.7	0.2940	0.52	1.00	3.10	12.0	15.0	292.2	2.0	0	0.00	86.	1000.	2	NAD-SFC	NoSubs
11	8	16	228	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	291.8	2.0	0	0.00	87.	1000.	3	NAD-SFC	NoSubs
11	8	16	228	5	-8.2	0.140	-9.000	-9.000	-999.	125.	29.9	0.2930	0.52	1.00	1.50	339.0	15.0	291.2	2.0	0	0.00	88.	1001.	3	NAD-SFC	NoSubs
11	8	16	228	6	-3.7	0.099	-9.000	-9.000	-999.	75.	23.4	0.2720	0.52	0.67	1.00	326.0	15.0	290.9	2.0	0	0.00	89.	1002.	3	NAD-SFC	NoSubs
11	8	16	228	7	19.0	0.243	0.418	0.008	137.	287.	-67.2	0.2930	0.52	0.34	2.10	339.0	15.0	291.9	2.0	0	0.00	81.	1002.	3	NAD-SFC	NoSubs
11	8	16	228	8	65.4	-9.000	-9.000	-9.000	259.	-999.	-99999.0	0.2235	0.52	0.23	0.00	0.0	15.0	293.5	2.0	0	0.00	74.	1002.	2	NAD-SFC	NoSubs
11	8	16	228	9	108.0	-9.000	-9.000	-9.000	355.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	295.2	2.0	0	0.00	67.	1002.	2	NAD-SFC	NoSubs
11	8	16	228	10	142.0	-9.000	-9.000	-9.000	520.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.9	2.0	0	0.00	61.	1002.	2	NAD-SFC	NoSubs
11	8	16	228	11	165.7	-9.000	-9.000	-9.000	701.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.8	2.0	0	0.00	54.	1001.	2	NAD-SFC	NoSubs
11	8	16	228	12	178.2	-9.000	-9.000	-9.000	870.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.4	2.0	0	0.00	47.	1000.	2	NAD-SFC	NoSubs
11	8	16	228	13	179.1	-9.000	-9.000	-9.000	999.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.6	2.0	0	0.00	44.	1000.	2	NAD-SFC	NoSubs
11	8	16	228	14	168.6	-9.000	-9.000	-9.000	1081.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.5	2.0	0	0.00	41.	999.	2	NAD-SFC	NoSubs
11	8	16	228	15	146.6	0.119	1.677	0.010	1147.	99.	-1.0	0.2940	0.52	0.19	0.50	14.0	15.0	303.1	2.0	0	0.00	40.	999.	2	NAD-SFC	NoSubs
11	8	16	228	16	114.1	0.226	1.564	0.011	1196.	257.	-9.0	0.2940	0.52	0.20	1.50	25.0	15.0	303.4	2.0	0	0.00	39.	999.	2	NAD-SFC	NoSubs
11	8	16	228	17	72.4	0.306	1.355	0.011	1225.	406.	-35.1	0.2470	0.52	0.23	2.60	33.0	15.0	303.0	2.0	0	0.00	46.	999.	2	NAD-SFC	NoSubs
11	8	16	228	18	25.1	0.327	0.954	0.011	1234.	450.	-124.7	0.2470	0.52	0.33	3.10	37.0	15.0	302.4	2.0	0	0.00	51.	999.	2	NAD-SFC	NoSubs
11	8	16	228	19	-30.8	0.338	-9.000	-9.000	-999.	472.	112.3	0.2470	0.52	0.64	3.60	45.0	15.0	301.2	2.0	0	0.00	52.	1000.	2	NAD-SFC	NoSubs
11	8	16	228	20	-14.8	0.190	-9.000	-9.000	-999.	214.	41.5	0.2470	0.52	1.00	2.10	32.0	15.0	300.2	2.0	0	0.00	54.	1000.	3	NAD-SFC	NoSubs
11	8	16	228	21	-1.4	0.077	-9.000	-9.000	-999.	64.	30.4	0.1750	0.52	1.00	0.50	249.0	15.0	298.8	2.0	0	0.00	60.	1000.	3	NAD-SFC	NoSubs
11	8	16	228	22	-12.8	0.173	-9.000	-9.000	-999.	173.	36.3	0.1750	0.52	1.00	2.10	252.0	15.0	297.4	2.0	0	0.00	66.	1000.	3	NAD-SFC	NoSubs
11	8	16	228	23	-14.2	0.183	-9.000	-9.000	-999.	188.	38.5	0.2160	0.52	1.00	2.10	274.0	15.0	296.2	2.0	0	0.00	69.	1001.	2	NAD-SFC	NoSubs
11	8	16	228	24	-15.8	0.195	-9.000	-9.000	-999.	207.	42.1	0.2720	0.52	1.00	2.10	307.0	15.0	295.4	2.0	0	0.00	72.	1001.	2	NAD-SFC	NoSubs
11	8	17	229	1	-37.1	0.354	-9.000	-9.000	-999.	506.	107.0	0.2930	0.52	1.00	3.60	338.0	15.0	294.6	2.0	0	0.00	76.	1001.	2	NAD-SFC	NoSubs
11	8	17	229	2	-37.4	0.354	-9.000	-9.000	-999.	506.	106.4	0.2930	0.52	1.00	3.60	353.0	15.0	293.1	2.0	0	0.00	84.	1002.	2	NAD-SFC	NoSubs
11	8	17	229	3	-32.1	0.303	-9.000	-9.000	-999.	402.	77.6	0.2930	0.52	1.00	3.10	350.0	15.0	292.2	2.0	0	0.00	89.	1002.	2	NAD-SFC	NoSubs
11	8	17	229	4	-25.8	0.252	-9.000	-9.000	-999.	304.	55.1	0.2930	0.52	1.00	2.60	356.0	15.0	291.5	2.0	0	0.00	91.	1003.	2	NAD-SFC	NoSubs
11	8	17	229	5	-16.6	0.200	-9.000	-9.000	-999.	215.	43.0	0.2930	0.52	1.00	2.10	358.0	15.0	291.0	2.0	0	0.00	93.	1003.	2	NAD-SFC	NoSubs
11	8	17	229	6	-8.1	0.140	-9.000	-9.000	-999.	126.	30.0	0.2930	0.52	0.68	1.50	347.0	15.0	290.6	2.0	0	0.00	94.	1004.	2	NAD-SFC	NoSubs
11	8	17	229	7	17.1	0.288	0.377	0.006	112.	370.	-124.8	0.2940	0.52	0.34	2.60	4.0	15.0	291.4	2.0	0	0.00	86.	1005.	2	NAD-SFC	NoSubs
11	8	17	229	8	64.8	0.106	0.720	0.010	206.	119.	-1.7	0.2930	0.52	0.23	0.50	349.0	15.0	293.1	2.0	0	0.00	78.	1005.	2	NAD-SFC	NoSubs
11	8	17	229	9	107.7	-9.000	-9.000	-9.000	312.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	295.6	2.0	0	0.00	66.	1005.	2	NAD-SFC	NoSubs
11	8	17	229	10	141.8	-9.000	-9.000	-9.000	452.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.6	2.0	0	0.00	59.	1004.	2	NAD-SFC	NoSubs
11	8	17	229	11	165.5	-9.000	-9.000	-9.000	677.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.2	2.0	0	0.00	53.	1004.	2	NAD-SFC	NoSubs
11	8	17	229	12	178.0	0.114	1.616	0.011	850.	93.	-1.0	0.2160	0.52	0.19	0.50	296.0	15.0	300.9	2.0	0	0.00	48.	1003.	2	NAD-SFC	NoSubs
11	8	17	229	13	178.9	-9.000	-9.000	-9.000	982.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.2	2.0	0	0.00	43.	1002.	2	NAD-SFC	NoSubs
11	8	17	229	14	168.5	0.121	1.698	0.013	1039.	101.	-1.0	0.2930	0.52	0.19	0.50	339.0	15.0	303.2	2.0	0	0.00	39.	1001.	2	NAD-SFC	NoSubs
11	8	17	229	15	146.3	0.180	1.644	0.013	1086.	184.	-3.6	0.2940	0.52	0.19	1.00	5.0	15.0	303.8	2.0	0	0.00	38.	1001.	2	NAD-SFC	NoSubs
11	8	17	229	16	113.7	0.284	1.528	0.013	1121.	363.	-17.9	0.2940	0.52	0.20	2.10	12.0	15.0	304.0	2.0	0	0.00	37.	1000.	2	NAD-SFC	NoSubs
11	8	17	229	17	71.9	0.271	1.320	0.013	1142.	338.	-24.6	0.2940	0.52	0.23	2.10	22.0	15.0	303.6	2.0	0	0.00	44.	1000.	2	NAD-SFC	NoSubs
11	8	17	229	18	24.6	0.282	0.925	0.012	1149.	360.	-81.7	0.2470	0.52	0.33	2.60	32.0	15.0	303.1	2.0	0	0.00	49.	1000.	2	NAD-SFC	NoSubs
11	8	17	229	19	-28.2	0.304	-9.000	-9.000	-999.	403.	89.3	0.2940	0.52	0.65	3.10	28.0	15.0	301.8	2.0	0	0.00	51.	1001.	2	NAD-SFC	NoSubs
11	8	17	229	20	-7.4	0.133	-9.000	-9.000	-999.	143.	28.5	0.2470	0.52	1.00	1.50	31.0	15.0	300.6	2.0	0	0.00	54.	1001.	3	NAD-SFC	NoSubs
11	8	17	229	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	299.2	2.0	0	0.00	60.	1001.	3	NAD-SFC	NoSubs
11	8	17	229	22	-6.5	0.122	-9.000	-9.000	-999.	103.	25.3	0.1750	0.52	1.00	1.50	252.0	15.0	297.8	2.0	0	0.00	65.	1001.	3	NAD-SFC	NoSubs
11	8	17	229	23	-13.0	0.173	-9.000	-9.000	-999.	173.	35.7	0.1750	0.52	1.00	2.10	257.0	15.0	296.8	2.0	0	0.00	70.	1001.	2	NAD-SFC	NoSubs
11	8	17	229	24	-7.1	0.129	-9.000	-9.000	-999.	111.	26.7	0.2160	0.52	1.00	1.50	277.0	15.0	295.8	2.0	0	0.00	73.	1001.	2	NAD-SFC	NoSubs
11	8	18	230	1	-7.2	0.129	-9.000	-9.000	-999.	111.	26.6	0.2160	0.52	1.00	1.50	298.0	15.0	295.0	2.0	0	0.00	76.	1001.	2	NAD-SFC	NoSubs
11	8	18	230	2	-24.7	0.246	-9.000	-9.000	-999.	293.	53.8	0.2720	0.52	1.00	2.60	325.0	15.0	294.5	2.0	0	0.00	79.	1001.	2	NAD-SFC	NoSubs
11	8	18	230	3	-37.3	0.354	-9.000	-9.000	-999.	506.	106.6	0.2930	0.52	1.00	3.60	344.0	15.0	293.8	2.0	0	0.00	84.	1002.	2	NAD-SFC	NoSubs
11	8	18	230	4	-32.0	0.303	-9.000	-9.000	-999.	402.	77.8	0.2930	0.52	1.00	3.10	348.0	15.0	293.0	2.0	0	0.00	87.	1002.	2	NAD-SFC	NoSubs
11	8	18	230	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	292.4	2.0	0	0.00	88.	1002.	2	NAD-SFC	NoSubs
11	8	18	230	6	-16.3	0.200	-9.000	-9.000	-999.	215.	44.0	0.2940	0.52	0.69	2.10	10.0	15.0	292.1	2.0	0	0.00	88.	1003.	2	NAD-SFC	NoSubs
11	8	18	230	7	17.1	0.241	0.375	0.006	111.	284.	-73.5	0.2940	0.52	0.34	2.10	12.0	15.0	293.1	2.0	0	0.00	78.	1003.	2	NAD-SFC	NoSubs
11	8	18	230	8	64.8	0.106	0.712	0.007	199.	97.	-1.7	0.2940	0.52	0.24	0.50	14.0	15.0	294.8	2.0	0	0.00	70.	1003.	2	NAD-SFC	NoSubs
11	8	18	230	9	107.7	-9.000	-9.000	-9.000	355.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.8	2.0	0	0.00	62.	1003.	2	NAD-SFC	NoSubs
11	8	18	230	10	141.6	-9.000	-9.000	-9.000	589.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.2	2.0	0	0.00	58.	1002.	2	NAD-SFC	NoSubs
11	8	18	230	11	165.3	-9.000	-9.000	-9.000	791.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.8	2.0	0	0.00	54.	1002.	2	NAD-SFC	NoSubs
11	8	18	230	12	177.6	-9.000	-9.000	-9.000	960.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.2	2.0	0	0.00	49.	1001.	2	NAD-SFC	NoSubs
11	8	18	230	13	178.6	-9.000	-9.000	-9.000	1034.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.5	2.0	0	0.00	45.	1000.	2	NAD-SFC	NoSubs
11	8	18	230	14	168.1	-9.000	-9.000	-9.000	1095.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.5	2.0	0	0.00	43.	999.	2	NAD-SFC	NoSubs
11	8	18	230	15	145.9	0.114	1.673	0.013	1145.	93.	-1.0	0.2470	0.52	0.19	0.50	41.0	15.0	304.1	2.0	0	0.00	41.	998.	2	NAD-SFC	NoSubs
11	8	18	230	16	113.2	0.226	1.554	0.013	1182.	257.	-9.0	0.2940	0.52	0.20	1.50	21.0	15.0	304.4	2.0	0	0.00	39.	998.	2	NAD-SFC	NoSubs
11	8	18	230	17	71.4	0.261	1.341	0.013	1204.	320.	-22.1	0.2470	0.52	0.23	2.10	34.0	15.0	304.1	2.0	0	0.00	45.	998.	2	NAD-SFC	NoSubs
11	8	18	230	18	24.0	0.282	0.934	0.013	1211.	359.	-83.2	0.2470	0.52	0.33	2.60	33.0	15.0	303.6	2.0	0	0.00	50.	998.	2	NAD-SFC	NoSubs

11	8	18	230	19	-15.4	0.201	-9.000	-9.000	-999.	219.	47.3	0.2940	0.52	0.66	2.10	8.0	15.0	302.5	2.0	0	0.00	52.	999.	3	NAD-SFC NoSubs
11	8	18	230	20	-27.8	0.278	-9.000	-9.000	-999.	353.	69.3	0.2160	0.52	1.00	3.10	275.0	15.0	301.2	2.0	0	0.00	55.	999.	3	NAD-SFC NoSubs
11	8	18	230	21	-44.8	0.443	-9.000	-9.000	-999.	708.	173.2	0.1750	0.52	1.00	5.10	260.0	15.0	297.2	2.0	0	0.00	67.	999.	3	NAD-SFC NoSubs
11	8	18	230	22	-45.1	0.443	-9.000	-9.000	-999.	708.	172.0	0.1750	0.52	1.00	5.10	265.0	15.0	295.2	2.0	0	0.00	71.	999.	3	NAD-SFC NoSubs
11	8	18	230	23	-36.0	0.353	-9.000	-9.000	-999.	509.	108.8	0.1750	0.52	1.00	4.10	263.0	15.0	294.2	2.0	0	0.00	73.	999.	3	NAD-SFC NoSubs
11	8	18	230	24	-28.4	0.278	-9.000	-9.000	-999.	355.	67.4	0.2160	0.52	1.00	3.10	284.0	15.0	293.8	2.0	0	0.00	75.	999.	3	NAD-SFC NoSubs
11	8	19	231	1	-24.4	0.246	-9.000	-9.000	-999.	294.	54.5	0.2720	0.52	1.00	2.60	300.0	15.0	293.8	2.0	0	0.00	74.	1000.	3	NAD-SFC NoSubs
11	8	19	231	2	-16.3	0.200	-9.000	-9.000	-999.	215.	43.9	0.2930	0.52	1.00	2.10	331.0	15.0	293.5	2.0	0	0.00	74.	1000.	3	NAD-SFC NoSubs
11	8	19	231	3	-8.1	0.140	-9.000	-9.000	-999.	126.	30.0	0.2930	0.52	1.00	1.50	345.0	15.0	293.2	2.0	0	0.00	76.	1000.	3	NAD-SFC NoSubs
11	8	19	231	4	-1.6	0.083	-9.000	-9.000	-999.	58.	31.7	0.2930	0.52	1.00	0.50	341.0	15.0	292.8	2.0	0	0.00	78.	1000.	3	NAD-SFC NoSubs
11	8	19	231	5	-1.6	0.082	-9.000	-9.000	-999.	57.	31.6	0.2720	0.52	1.00	0.50	310.0	15.0	292.2	2.0	0	0.00	80.	1000.	3	NAD-SFC NoSubs
11	8	19	231	6	8.1	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.70	0.00	0.0	15.0	291.8	2.0	0	0.00	81.	1000.	3	NAD-SFC NoSubs
11	8	19	231	7	17.7	0.090	0.457	0.008	191.	64.	-3.6	0.2930	0.52	0.34	0.50	341.0	15.0	292.8	2.0	0	0.00	74.	1000.	3	NAD-SFC NoSubs
11	8	19	231	8	65.1	-9.000	-9.000	-9.000	309.	-999.	-99999.0	0.2235	0.52	0.24	0.00	0.0	15.0	294.4	2.0	0	0.00	67.	1000.	3	NAD-SFC NoSubs
11	8	19	231	9	106.9	-9.000	-9.000	-9.000	444.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.0	2.0	0	0.00	61.	1000.	2	NAD-SFC NoSubs
11	8	19	231	10	141.0	-9.000	-9.000	-9.000	593.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.6	2.0	0	0.00	57.	1000.	2	NAD-SFC NoSubs
11	8	19	231	11	164.7	-9.000	-9.000	-9.000	770.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.2	2.0	0	0.00	53.	999.	2	NAD-SFC NoSubs
11	8	19	231	12	177.0	-9.000	-9.000	-9.000	953.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.8	2.0	0	0.00	48.	998.	2	NAD-SFC NoSubs
11	8	19	231	13	177.8	-9.000	-9.000	-9.000	1040.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.9	2.0	0	0.00	45.	998.	2	NAD-SFC NoSubs
11	8	19	231	14	167.1	-9.000	-9.000	-9.000	1108.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.8	2.0	0	0.00	42.	997.	2	NAD-SFC NoSubs
11	8	19	231	15	144.9	0.119	1.680	0.013	1164.	98.	-1.0	0.2940	0.52	0.19	0.50	12.0	15.0	303.5	2.0	0	0.00	40.	996.	2	NAD-SFC NoSubs
11	8	19	231	16	112.6	0.174	1.562	0.013	1205.	175.	-4.2	0.2940	0.52	0.20	1.00	23.0	15.0	303.8	2.0	0	0.00	39.	996.	3	NAD-SFC NoSubs
11	8	19	231	17	71.2	0.271	1.350	0.013	1230.	338.	-24.7	0.2940	0.52	0.23	2.10	28.0	15.0	303.8	2.0	0	0.00	42.	996.	3	NAD-SFC NoSubs
11	8	19	231	18	24.2	0.247	0.944	0.013	1238.	296.	-55.7	0.2940	0.52	0.34	2.10	19.0	15.0	303.2	2.0	0	0.00	48.	996.	3	NAD-SFC NoSubs
11	8	19	231	19	-27.4	0.297	-9.000	-9.000	-999.	389.	85.3	0.2720	0.52	0.67	3.10	305.0	15.0	302.0	2.0	0	0.00	52.	997.	3	NAD-SFC NoSubs
11	8	19	231	20	-44.7	0.443	-9.000	-9.000	-999.	708.	173.5	0.1750	0.52	1.00	5.10	267.0	15.0	297.8	2.0	0	0.00	67.	998.	3	NAD-SFC NoSubs
11	8	19	231	21	-47.6	0.468	-9.000	-9.000	-999.	767.	191.4	0.2160	0.52	1.00	5.10	273.0	15.0	294.9	2.0	0	0.00	73.	998.	3	NAD-SFC NoSubs
11	8	19	231	22	-40.7	0.398	-9.000	-9.000	-999.	607.	138.0	0.1750	0.52	1.00	4.60	259.0	15.0	293.8	2.0	0	0.00	76.	998.	3	NAD-SFC NoSubs
11	8	19	231	23	-36.2	0.353	-9.000	-9.000	-999.	505.	108.2	0.1750	0.52	1.00	4.10	256.0	15.0	292.8	2.0	0	0.00	78.	999.	3	NAD-SFC NoSubs
11	8	19	231	24	-27.6	0.278	-9.000	-9.000	-999.	356.	69.7	0.2160	0.52	1.00	3.10	272.0	15.0	292.0	2.0	0	0.00	81.	999.	4	NAD-SFC NoSubs
11	8	20	232	1	-6.9	0.129	-9.000	-9.000	-999.	129.	27.3	0.2160	0.52	1.00	1.50	299.0	15.0	291.6	2.0	0	0.00	81.	999.	4	NAD-SFC NoSubs
11	8	20	232	2	-7.7	0.137	-9.000	-9.000	-999.	121.	29.6	0.2720	0.52	1.00	1.50	304.0	15.0	291.2	2.0	0	0.00	82.	999.	4	NAD-SFC NoSubs
11	8	20	232	3	-13.9	0.183	-9.000	-9.000	-999.	188.	39.5	0.2160	0.52	1.00	2.10	296.0	15.0	290.8	2.0	0	0.00	82.	999.	4	NAD-SFC NoSubs
11	8	20	232	4	-13.9	0.183	-9.000	-9.000	-999.	188.	39.5	0.2160	0.52	1.00	2.10	287.0	15.0	290.4	2.0	0	0.00	81.	1000.	4	NAD-SFC NoSubs
11	8	20	232	5	-15.5	0.196	-9.000	-9.000	-999.	208.	43.2	0.2720	0.52	1.00	2.10	301.0	15.0	290.1	2.0	0	0.00	81.	1000.	4	NAD-SFC NoSubs
11	8	20	232	6	-13.8	0.184	-9.000	-9.000	-999.	189.	40.0	0.2160	0.52	0.70	2.10	298.0	15.0	289.8	2.0	0	0.00	80.	1000.	4	NAD-SFC NoSubs
11	8	20	232	7	17.5	0.269	0.397	0.008	127.	335.	-99.3	0.2160	0.52	0.35	2.60	286.0	15.0	290.5	2.0	0	0.00	73.	1001.	4	NAD-SFC NoSubs
11	8	20	232	8	63.8	0.152	0.780	0.008	266.	149.	-4.9	0.2160	0.52	0.24	1.00	287.0	15.0	292.1	2.0	0	0.00	68.	1001.	4	NAD-SFC NoSubs
11	8	20	232	9	105.2	-9.000	-9.000	-9.000	423.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	293.8	2.0	0	0.00	64.	1001.	4	NAD-SFC NoSubs
11	8	20	232	10	139.9	-9.000	-9.000	-9.000	565.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.5	2.0	0	0.00	61.	1001.	3	NAD-SFC NoSubs
11	8	20	232	11	163.3	-9.000	-9.000	-9.000	698.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.2	2.0	0	0.00	57.	1001.	3	NAD-SFC NoSubs
11	8	20	232	12	175.5	-9.000	-9.000	-9.000	821.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.9	2.0	0	0.00	53.	1000.	3	NAD-SFC NoSubs
11	8	20	232	13	176.3	0.120	1.662	0.009	930.	100.	-1.0	0.2720	0.52	0.19	0.50	309.0	15.0	300.2	2.0	0	0.00	49.	999.	3	NAD-SFC NoSubs
11	8	20	232	14	165.8	0.119	1.679	0.010	1018.	99.	-1.0	0.2720	0.52	0.19	0.50	316.0	15.0	301.2	2.0	0	0.00	45.	999.	2	NAD-SFC NoSubs
11	8	20	232	15	143.5	0.177	1.635	0.010	1087.	178.	-3.4	0.2720	0.52	0.19	1.00	327.0	15.0	302.0	2.0	0	0.00	41.	999.	2	NAD-SFC NoSubs
11	8	20	232	16	110.7	0.221	1.523	0.010	1138.	250.	-8.7	0.2720	0.52	0.20	1.50	328.0	15.0	302.4	2.0	0	0.00	39.	998.	2	NAD-SFC NoSubs
11	8	20	232	17	69.6	0.270	1.316	0.010	1167.	336.	-25.1	0.2930	0.52	0.23	2.10	332.0	15.0	302.2	2.0	0	0.00	42.	999.	3	NAD-SFC NoSubs
11	8	20	232	18	22.6	0.287	0.908	0.010	1176.	369.	-93.0	0.2720	0.52	0.34	2.60	307.0	15.0	301.9	2.0	0	0.00	46.	999.	3	NAD-SFC NoSubs
11	8	20	232	19	-40.2	0.421	-9.000	-9.000	-999.	655.	165.0	0.2160	0.52	0.68	4.60	277.0	15.0	299.0	2.0	0	0.00	55.	1000.	3	NAD-SFC NoSubs
11	8	20	232	20	-52.0	0.497	-9.000	-9.000	-999.	841.	210.9	0.1750	0.52	1.00	5.70	269.0	15.0	295.0	2.0	0	0.00	68.	1000.	2	NAD-SFC NoSubs
11	8	20	232	21	-45.5	0.443	-9.000	-9.000	-999.	711.	170.8	0.1750	0.52	1.00	5.10	266.0	15.0	293.2	2.0	0	0.00	73.	1001.	3	NAD-SFC NoSubs
11	8	20	232	22	-43.3	0.420	-9.000	-9.000	-999.	654.	152.8	0.2160	0.52	1.00	4.60	275.0	15.0	292.0	2.0	0	0.00	78.	1001.	3	NAD-SFC NoSubs
11	8	20	232	23	-38.6	0.373	-9.000	-9.000	-999.	548.	119.9	0.2160	0.52	1.00	4.10	285.0	15.0	291.0	2.0	0	0.00	80.	1002.	3	NAD-SFC NoSubs
11	8	20	232	24	-28.9	0.278	-9.000	-9.000	-999.	357.	66.6	0.2160	0.52	1.00	3.10	291.0	15.0	290.2	2.0	0	0.00	82.	1002.	3	NAD-SFC NoSubs
11	8	21	233	1	-15.8	0.195	-9.000	-9.000	-999.	210.	42.3	0.2720	0.52	1.00	2.10	305.0	15.0	290.0	2.0	0	0.00	82.	1003.	3	NAD-SFC NoSubs
11	8	21	233	2	-7.9	0.137	-9.000	-9.000	-999.	122.	29.0	0.2720	0.52	1.00	1.50	309.0	15.0	290.0	2.0	0	0.00	81.	1003.	3	NAD-SFC NoSubs
11	8	21	233	3	-3.9	0.100	-9.000	-9.000	-999.	76.	23.3	0.2720	0.52	1.00	1.00	320.0	15.0	289.8	2.0	0	0.00	81.	1003.	3	NAD-SFC NoSubs
11	8	21	233	4	-1.6	0.083	-9.000	-9.000	-999.	58.	31.8	0.2930	0.52	1.00	0.50	331.0	15.0	289.6	2.0	0	0.00	82.	1003.	3	NAD-SFC NoSubs
11	8	21	233	5	-1.6	0.083	-9.000	-9.000	-999.	58.	31.8	0.2930	0.52	1.00	0.50	356.0	15.0	289.2	2.0	0	0.00	83.	1004.	3	NAD-SFC NoSubs
11	8	21	233	6	-1.6	0.083	-9.000	-9.000	-999.	57.	31.7	0.2940	0.52	0.71	0.50	15.0	15.0	289.0	2.0	0	0.00	85.	1004.	3	NAD-SFC NoSubs
11	8	21	233	7	15.9	0.185	0.407	0.009	151.	191.	-35.6	0.2930	0.52	0.35	1.50	351.0	15.0	290.0	2.0	0	0.00	80.	1004.	3	NAD-SFC NoSubs
11	8	21	233	8	63.2	-9.000	-9.000	-9.000	310.	-999.	-99999.0	0.2235	0.52	0.24	0.00	0.0	15.0	291.6	2.0	0	0.00	75.	1004.	3	NAD-SFC NoSubs
11	8	21	233	9	105.0	-9.000	-9.000	-9.000	441.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	293.1	2.0	0	0.00	71.	1004.	2	NAD-SFC NoSubs
11	8	21	233	10	139.1	-9.000	-9.000	-9.000	564.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.0	2.0	0	0.00	66.	1004.	2	NAD-SFC NoSubs
11	8	21	233	11	162.7	-9.000	-9.000	-9.000	687.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.8	2.0	0	0.00	62.	1003.	2	NAD-SFC NoSubs
11	8	21	233	12	175.0	-9.000	-9.000	-9.000	823.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.4	2.0	0	0.00	57.	1003.	2	NAD-SFC NoSubs
11	8	21	233	13	175.9	0.120	1.666	0.012	942.	100.	-1.0	0.2720	0.52	0.19	0.50	324.0	15.0	300.0	2.0	0	0.00	52.	1002.	2	NAD-SFC NoSubs
11	8	21	233	14	165.1	0.236	1.674	0.013	1015.	275.	-7.1	0.2930	0.52	0.19	1.50	339.0	15.0	301.1	2.0	0	0.00	47.	1001.	2	NAD-SFC NoSubs
11	8	21	233	15	142.7	0.290	1.620	0.013	1065.	374.	-15.2	0.2930	0.52	0.19	2.10	353.0	15.0	301.8	2.0	0	0.00	44.	1001.	2	NAD-SFC NoSubs
11	8	21	233	16	109.7	0.283	1.501	0.013	1102.	361.	-18.4	0.2940	0.52	0.20	2.10	5.0	15.0	301.9	2.0	0	0.00	43.	1001.	2	NAD-SFC NoSubs
11	8	21	233	17	67.6	-9.000	-9.000	-9.000	1123.	-999.	-99999.0	0.2235	0.52	0.24	0.00	0.0	15.0	301.8	2.0	0	0.00	48.	1001.	2	NAD-SFC NoSubs
11	8	21	233	18	20.1	0.290	0.860	0.013	1129.	375.	-108.5	0.2940	0.52	0.34	2.60	14.0	15.0	301.2	2.0	0	0.00	54.	1001.	2	NAD-SFC NoSubs
11	8	21	233	19	-11.2	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	0.69	0.00	0.0	15.0	300.1	2.0	0	0.00	56.	1002.	3	NAD-SFC NoSubs
11	8	21	233	20	-42.5	0.420	-9.000	-9.000	-999.	654.	156.1	0.2160	0.52	1.00	4.60	287.0	15.0	298.0	2.0	0	0.00	61.	1002.	3	NAD-SFC NoSubs
11	8	21	233	21	-49.2	0.467	-9.000	-9.000	-999.	766.	185.7	0.2160	0.52	1.00	5.10	275.0	15.0	294.0	2.0	0	0.00	68.	1003.	2	NAD-SFC NoSubs
11	8	21	233	22	-39.4	0.372	-9.000	-9.000	-999.	552.	117.3	0.2160	0.52	1.00	4.10	284.0	15.0	292.5	2.0	0	0.00	72.	1003.	2	NAD-SFC NoSubs
11	8	21	233	23	-29.5	0.278	-9.000	-9.000	-999.	357.	65.1	0.2160	0.52	1.00	3.10	287.0	15.0	291.6	2.0	0	0.00	75.	1004.	2	NAD-SFC NoSubs

11	8	21	233	24	-24.6	0.246	-9.000	-9.000	-999.	294.	54.3	0.2720	0.52	1.00	2.60	311.0	15.0	291.0	2.0	0	0.00	76.	1004.	3	NAD-SFC NoSubs
11	8	22	234	1	-24.6	0.246	-9.000	-9.000	-999.	293.	54.2	0.2720	0.52	1.00	2.60	316.0	15.0	290.8	2.0	0	0.00	75.	1004.	3	NAD-SFC NoSubs
11	8	22	234	2	-15.8	0.196	-9.000	-9.000	-999.	208.	42.3	0.2720	0.52	1.00	2.10	323.0	15.0	290.8	2.0	0	0.00	75.	1004.	3	NAD-SFC NoSubs
11	8	22	234	3	-8.0	0.137	-9.000	-9.000	-999.	122.	28.7	0.2720	0.52	1.00	1.50	324.0	15.0	290.8	2.0	0	0.00	76.	1004.	2	NAD-SFC NoSubs
11	8	22	234	4	-8.3	0.140	-9.000	-9.000	-999.	125.	29.5	0.2930	0.52	1.00	1.50	342.0	15.0	290.6	2.0	0	0.00	77.	1004.	2	NAD-SFC NoSubs
11	8	22	234	5	-4.1	0.102	-9.000	-9.000	-999.	79.	23.6	0.2930	0.52	1.00	1.00	347.0	15.0	290.2	2.0	0	0.00	80.	1005.	2	NAD-SFC NoSubs
11	8	22	234	6	-8.3	0.140	-9.000	-9.000	-999.	125.	29.6	0.2930	0.52	0.72	1.50	346.0	15.0	289.9	2.0	0	0.00	84.	1005.	2	NAD-SFC NoSubs
11	8	22	234	7	14.1	-9.000	-9.000	-9.000	157.	-999.	-99999.0	0.2235	0.52	0.35	0.00	0.0	15.0	290.2	2.0	0	0.00	83.	1005.	2	NAD-SFC NoSubs
11	8	22	234	8	61.8	-9.000	-9.000	-9.000	266.	-999.	-99999.0	0.2235	0.52	0.24	0.00	0.0	15.0	291.6	2.0	0	0.00	76.	1005.	2	NAD-SFC NoSubs
11	8	22	234	9	104.7	-9.000	-9.000	-9.000	361.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	293.8	2.0	0	0.00	66.	1005.	2	NAD-SFC NoSubs
11	8	22	234	10	138.8	-9.000	-9.000	-9.000	506.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	295.5	2.0	0	0.00	61.	1005.	2	NAD-SFC NoSubs
11	8	22	234	11	162.5	-9.000	-9.000	-9.000	654.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.2	2.0	0	0.00	56.	1005.	2	NAD-SFC NoSubs
11	8	22	234	12	174.6	-9.000	-9.000	-9.000	806.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.6	2.0	0	0.00	52.	1004.	2	NAD-SFC NoSubs
11	8	22	234	13	175.3	-9.000	-9.000	-9.000	936.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.9	2.0	0	0.00	49.	1003.	2	NAD-SFC NoSubs
11	8	22	234	14	164.4	-9.000	-9.000	-9.000	1011.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.9	2.0	0	0.00	46.	1002.	2	NAD-SFC NoSubs
11	8	22	234	15	141.9	-9.000	-9.000	-9.000	1059.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.5	2.0	0	0.00	44.	1001.	2	NAD-SFC NoSubs
11	8	22	234	16	108.8	0.106	1.493	0.013	1094.	83.	-1.0	0.2090	0.52	0.20	0.50	75.0	15.0	301.8	2.0	0	0.00	43.	1001.	2	NAD-SFC NoSubs
11	8	22	234	17	66.6	0.152	1.276	0.013	1114.	143.	-4.7	0.2130	0.52	0.24	1.00	104.0	15.0	301.6	2.0	0	0.00	48.	1001.	2	NAD-SFC NoSubs
11	8	22	234	18	18.9	0.130	0.841	0.013	1119.	112.	-10.2	0.1970	0.52	0.35	1.00	127.0	15.0	300.8	2.0	0	0.00	53.	1001.	2	NAD-SFC NoSubs
11	8	22	234	19	-6.5	0.123	-9.000	-9.000	-999.	104.	25.6	0.1810	0.52	0.71	1.50	161.0	15.0	299.8	2.0	0	0.00	58.	1001.	2	NAD-SFC NoSubs
11	8	22	234	20	-6.7	0.125	-9.000	-9.000	-999.	106.	25.7	0.1900	0.52	1.00	1.50	183.0	15.0	298.8	2.0	0	0.00	63.	1001.	2	NAD-SFC NoSubs
11	8	22	234	21	-3.4	0.094	-9.000	-9.000	-999.	69.	21.9	0.1900	0.52	1.00	1.00	191.0	15.0	297.9	2.0	0	0.00	67.	1001.	2	NAD-SFC NoSubs
11	8	22	234	22	-1.4	0.079	-9.000	-9.000	-999.	53.	30.9	0.1900	0.52	1.00	0.50	196.0	15.0	297.4	2.0	0	0.00	69.	1001.	2	NAD-SFC NoSubs
11	8	22	234	23	-3.6	0.096	-9.000	-9.000	-999.	72.	22.4	0.2160	0.52	1.00	1.00	286.0	15.0	296.9	2.0	0	0.00	70.	1001.	2	NAD-SFC NoSubs
11	8	22	234	24	-15.8	0.195	-9.000	-9.000	-999.	207.	42.2	0.2720	0.52	1.00	2.10	314.0	15.0	296.4	2.0	0	0.00	70.	1001.	2	NAD-SFC NoSubs
11	8	23	235	1	-24.7	0.246	-9.000	-9.000	-999.	293.	54.0	0.2720	0.52	1.00	2.60	309.0	15.0	295.9	2.0	0	0.00	71.	1001.	2	NAD-SFC NoSubs
11	8	23	235	2	-24.7	0.246	-9.000	-9.000	-999.	293.	53.9	0.2720	0.52	1.00	2.60	319.0	15.0	295.5	2.0	0	0.00	71.	1001.	2	NAD-SFC NoSubs
11	8	23	235	3	-24.7	0.246	-9.000	-9.000	-999.	293.	53.9	0.2720	0.52	1.00	2.60	324.0	15.0	295.0	2.0	0	0.00	73.	1001.	2	NAD-SFC NoSubs
11	8	23	235	4	-31.8	0.303	-9.000	-9.000	-999.	400.	78.2	0.2930	0.52	1.00	3.10	331.0	15.0	294.5	2.0	0	0.00	77.	1001.	2	NAD-SFC NoSubs
11	8	23	235	5	-16.5	0.200	-9.000	-9.000	-999.	219.	43.3	0.2930	0.52	1.00	2.10	339.0	15.0	294.0	2.0	0	0.00	80.	1001.	2	NAD-SFC NoSubs
11	8	23	235	6	-16.4	0.200	-9.000	-9.000	-999.	214.	43.5	0.2930	0.52	0.73	2.10	342.0	15.0	293.8	2.0	0	0.00	83.	1002.	2	NAD-SFC NoSubs
11	8	23	235	7	14.6	0.239	0.379	0.008	133.	280.	-83.0	0.2930	0.52	0.35	2.10	353.0	15.0	293.6	2.0	0	0.00	85.	1002.	2	NAD-SFC NoSubs
11	8	23	235	8	62.1	0.211	0.764	0.008	257.	232.	-13.5	0.2930	0.52	0.24	1.50	342.0	15.0	294.0	2.0	0	0.00	81.	1002.	2	NAD-SFC NoSubs
11	8	23	235	9	105.0	0.106	1.037	0.007	380.	88.	-1.0	0.2160	0.52	0.20	0.50	296.0	15.0	295.8	2.0	0	0.00	73.	1002.	2	NAD-SFC NoSubs
11	8	23	235	10	139.2	0.110	1.298	0.008	561.	88.	-1.0	0.2160	0.52	0.19	0.50	292.0	15.0	297.6	2.0	0	0.00	66.	1001.	2	NAD-SFC NoSubs
11	8	23	235	11	162.9	0.113	1.488	0.010	722.	91.	-1.0	0.2160	0.52	0.19	0.50	295.0	15.0	299.4	2.0	0	0.00	59.	1001.	2	NAD-SFC NoSubs
11	8	23	235	12	175.2	0.114	1.617	0.012	862.	92.	-1.0	0.2160	0.52	0.19	0.50	277.0	15.0	301.0	2.0	0	0.00	52.	1000.	2	NAD-SFC NoSubs
11	8	23	235	13	175.8	0.114	1.688	0.013	978.	92.	-1.0	0.2160	0.52	0.19	0.50	278.0	15.0	302.2	2.0	0	0.00	47.	1000.	2	NAD-SFC NoSubs
11	8	23	235	14	165.0	0.119	1.683	0.012	1031.	98.	-1.0	0.2720	0.52	0.19	0.50	301.0	15.0	303.4	2.0	0	0.00	43.	999.	2	NAD-SFC NoSubs
11	8	23	235	15	142.5	0.117	1.626	0.012	1076.	95.	-1.0	0.2720	0.52	0.19	0.50	308.0	15.0	304.1	2.0	0	0.00	39.	998.	2	NAD-SFC NoSubs
11	8	23	235	16	109.5	0.174	1.505	0.012	1109.	174.	-4.3	0.2930	0.52	0.20	1.00	354.0	15.0	304.8	2.0	0	0.00	36.	998.	2	NAD-SFC NoSubs
11	8	23	235	17	67.2	0.213	1.286	0.011	1128.	235.	-12.7	0.2930	0.52	0.24	1.50	358.0	15.0	304.6	2.0	0	0.00	39.	998.	2	NAD-SFC NoSubs
11	8	23	235	18	19.7	0.189	0.857	0.011	1133.	197.	-30.2	0.2940	0.52	0.35	1.50	2.0	15.0	304.2	2.0	0	0.00	43.	998.	2	NAD-SFC NoSubs
11	8	23	235	19	-3.9	0.101	-9.000	-9.000	-999.	80.	23.7	0.2940	0.52	0.72	1.00	5.0	15.0	302.9	2.0	0	0.00	48.	998.	2	NAD-SFC NoSubs
11	8	23	235	20	-7.1	0.129	-9.000	-9.000	-999.	111.	26.9	0.2160	0.52	1.00	1.50	270.0	15.0	301.6	2.0	0	0.00	53.	999.	2	NAD-SFC NoSubs
11	8	23	235	21	-43.3	0.420	-9.000	-9.000	-999.	653.	152.6	0.2160	0.52	1.00	4.60	282.0	15.0	299.2	2.0	0	0.00	61.	1000.	2	NAD-SFC NoSubs
11	8	23	235	22	-33.8	0.325	-9.000	-9.000	-999.	451.	90.8	0.2160	0.52	1.00	3.60	285.0	15.0	296.8	2.0	0	0.00	72.	1000.	2	NAD-SFC NoSubs
11	8	23	235	23	-29.0	0.278	-9.000	-9.000	-999.	353.	66.1	0.2160	0.52	1.00	3.10	288.0	15.0	295.8	2.0	0	0.00	74.	1001.	2	NAD-SFC NoSubs
11	8	23	235	24	-31.0	0.297	-9.000	-9.000	-999.	387.	75.0	0.2720	0.52	1.00	3.10	325.0	15.0	295.0	2.0	0	0.00	74.	1001.	2	NAD-SFC NoSubs
11	8	24	236	1	-31.8	0.303	-9.000	-9.000	-999.	400.	78.1	0.2930	0.52	1.00	3.10	344.0	15.0	294.2	2.0	0	0.00	75.	1001.	2	NAD-SFC NoSubs
11	8	24	236	2	-25.7	0.252	-9.000	-9.000	-999.	304.	55.5	0.2940	0.52	1.00	2.60	5.0	15.0	293.8	2.0	0	0.00	76.	1001.	2	NAD-SFC NoSubs
11	8	24	236	3	-25.7	0.252	-9.000	-9.000	-999.	303.	55.4	0.2940	0.52	1.00	2.60	9.0	15.0	293.2	2.0	0	0.00	77.	1001.	2	NAD-SFC NoSubs
11	8	24	236	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	292.8	2.0	0	0.00	78.	1001.	2	NAD-SFC NoSubs
11	8	24	236	5	-4.0	0.102	-9.000	-9.000	-999.	78.	23.7	0.2940	0.52	1.00	1.00	4.0	15.0	292.4	2.0	0	0.00	79.	1001.	2	NAD-SFC NoSubs
11	8	24	236	6	-4.0	0.102	-9.000	-9.000	-999.	78.	23.6	0.2930	0.52	0.73	1.00	352.0	15.0	292.2	2.0	0	0.00	79.	1002.	2	NAD-SFC NoSubs
11	8	24	236	7	14.0	0.234	0.332	0.010	93.	272.	-81.9	0.2720	0.52	0.35	2.10	307.0	15.0	293.2	2.0	0	0.00	73.	1002.	2	NAD-SFC NoSubs
11	8	24	236	8	62.0	0.159	0.676	0.012	178.	154.	-5.8	0.2720	0.52	0.24	1.00	310.0	15.0	295.1	2.0	0	0.00	66.	1002.	2	NAD-SFC NoSubs
11	8	24	236	9	105.1	-9.000	-9.000	-9.000	285.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	297.2	2.0	0	0.00	57.	1001.	2	NAD-SFC NoSubs
11	8	24	236	10	139.3	-9.000	-9.000	-9.000	391.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.1	2.0	0	0.00	52.	1001.	2	NAD-SFC NoSubs
11	8	24	236	11	163.1	-9.000	-9.000	-9.000	601.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.9	2.0	0	0.00	48.	1001.	2	NAD-SFC NoSubs
11	8	24	236	12	175.5	-9.000	-9.000	-9.000	740.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.8	2.0	0	0.00	43.	1000.	2	NAD-SFC NoSubs
11	8	24	236	13	176.2	-9.000	-9.000	-9.000	847.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	304.1	2.0	0	0.00	40.	999.	2	NAD-SFC NoSubs
11	8	24	236	14	165.3	0.121	1.631	0.012	936.	101.	-1.0	0.2930	0.52	0.19	0.50	357.0	15.0	305.2	2.0	0	0.00	37.	998.	2	NAD-SFC NoSubs
11	8	24	236	15	142.8	0.180	1.587	0.011	997.	183.	-3.6	0.2940	0.52	0.19	1.00	10.0	15.0	306.0	2.0	0	0.00	35.	998.	2	NAD-SFC NoSubs
11	8	24	236	16	109.7	0.283	1.472	0.011	1034.	361.	-18.3	0.2940	0.52	0.20	2.10	9.0	15.0	306.5	2.0	0	0.00	35.	997.	2	NAD-SFC NoSubs
11	8	24	236	17	67.2	-9.000	-9.000	-9.000	1055.	-999.	-99999.0	0.2235	0.52	0.24	0.00	0.0	15.0	306.2	2.0	0	0.00	42.	997.	2	NAD-SFC NoSubs
11	8	24	236	18	19.5	0.331	0.835	0.011	1060.	456.	-164.5	0.2720	0.52	0.35	3.10	325.0	15.0	305.6	2.0	0	0.00	45.	998.	2	NAD-SFC NoSubs
11	8	24	236	19	-47.4	0.468	-9.000	-9.000	-999.	768.	192.5	0.2160	0.52	0.73	5.10	284.0	15.0	301.8	2.0	0	0.00	55.	999.	2	NAD-SFC NoSubs
11	8	24	236	20	-45.9	0.443	-9.000	-9.000	-999.	709.	169.1	0.1750	0.52	1.00	5.10	266.0	15.0	298.0	2.0	0	0.00	66.	1000.	2	NAD-SFC NoSubs
11	8	24	236	21	-36.8	0.353	-9.000	-9.000	-999.	509.	106.7	0.1750	0.52	1.00	4.10	269.0	15.0	296.2	2.0	0	0.00	70.	1000.	2	NAD-SFC NoSubs
11	8	24	236	22	-36.9	0.353	-9.000	-9.000	-999.	503.	106.3	0.1750	0.52	1.00	4.10	269.0	15.0	295.1	2.0	0	0.00	72.	1000.	2	NAD-SFC NoSubs
11	8	24	236	23	-22.0	0.231	-9.000	-9.000	-999.	275.	50.0	0.2160	0.52	1.00	2.60	278.0	15.0	294.4	2.0	0	0.00	74.	1001.	3	NAD-SFC NoSubs
11	8	24	236	24	-7.8	0.137	-9.000	-9.000	-999.	126.	29.2	0.2720	0.52	1.00	1.50	306.0	15.0	294.0	2.0	0	0.00	74.	1001.	3	NAD-SFC NoSubs
11	8	25	237	1	-7.8	0.137	-9.000	-9.000	-999.	121.	29.2	0.2720	0.52	1.00	1.50	320.0	15.0	293.8	2.0	0	0.00	75.	1001.	3	NAD-SFC NoSubs
11	8	25	237	2	-15.7	0.196	-9.000	-9.000	-999.	208.	42.6	0.2720	0.52	1.00	2.10	322.0	15.0	293.5	2.0	0	0.00	76.	1001.	3	NAD-SFC NoSubs
11	8	25	237	3	-15.7	0.196	-9.000	-9.000	-999.	208.	42.5	0.2720	0.52	1.00	2.10	306.0	15.0	293.2	2.0	0	0.00	78.	1001.	3	NAD-SFC NoSubs
11	8	25	237	4	-15.9	0.195	-9.000	-9.000	-999.	207.	41.9	0.2720	0.52	1.00	2.10	306.0	15.0	292.8	2.0	0	0.00	79.	1001.	2	NAD-SFC NoSubs

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11  8 25 237  5  -15.9  0.195 -9.000 -9.000 -999.  207.    41.9 0.2720  0.52  1.00  2.10 318.0  15.0 292.5  2.0    0  0.00   82.  1001.    2 NAD-SFC NoSubs
11  8 25 237  6  -16.5  0.200 -9.000 -9.000 -999.  214.    43.2 0.2930  0.52  0.74  2.10 335.0  15.0 292.1  2.0    0  0.00   84.  1002.    2 NAD-SFC NoSubs
11  8 25 237  7   13.3  0.284  0.380  0.010  148.  363.  -153.7 0.2930  0.52  0.36  2.60 350.0  15.0 292.8  2.0    0  0.00   84.  1002.    2 NAD-SFC NoSubs
11  8 25 237  8   61.1  0.161  0.790  0.010  288.  164.    -6.2 0.2930  0.52  0.24  1.00 354.0  15.0 294.1  2.0    0  0.00   78.  1002.    2 NAD-SFC NoSubs
11  8 25 237  9  104.0 -9.000 -9.000 -9.000  414. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 295.6  2.0    0  0.00   72.  1002.    2 NAD-SFC NoSubs
11  8 25 237 10  138.1 -9.000 -9.000 -9.000  550. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 297.4  2.0    0  0.00   67.  1002.    2 NAD-SFC NoSubs
11  8 25 237 11  161.9 -9.000 -9.000 -9.000  674. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 299.2  2.0    0  0.00   62.  1001.    2 NAD-SFC NoSubs
11  8 25 237 12  174.0 -9.000 -9.000 -9.000  772. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 300.8  2.0    0  0.00   57.  1000.    2 NAD-SFC NoSubs
11  8 25 237 13  174.6  0.122  1.614  0.013  859.  102.    -1.0 0.2930  0.52  0.19  0.50 332.0  15.0 302.1  2.0    0  0.00   53.   999.    2 NAD-SFC NoSubs
11  8 25 237 14  163.6  0.182  1.624  0.013  934.  187.    -3.3 0.2930  0.52  0.19  1.00 337.0  15.0 303.2  2.0    0  0.00   49.   999.    2 NAD-SFC NoSubs
11  8 25 237 15  141.0  0.231  1.576  0.012  990.  267.    -7.8 0.2930  0.52  0.19  1.50 355.0  15.0 304.0  2.0    0  0.00   46.   998.    2 NAD-SFC NoSubs
11  8 25 237 16  107.6  0.282  1.456  0.012 1024.  360.   -18.6 0.2940  0.52  0.21  2.10   3.0  15.0 304.2  2.0    0  0.00   44.   998.    2 NAD-SFC NoSubs
11  8 25 237 17   65.1  0.268  1.241  0.012 1044.  334.   -26.4 0.2940  0.52  0.24  2.10  13.0  15.0 304.1  2.0    0  0.00   51.   997.    2 NAD-SFC NoSubs
11  8 25 237 18   17.5  0.335  0.801  0.012 1048.  465.  -191.4 0.2940  0.52  0.36  3.10  16.0  15.0 303.5  2.0    0  0.00   55.   998.    2 NAD-SFC NoSubs
11  8 25 237 19  -30.8  0.304 -9.000 -9.000 -999.  402.    80.8 0.2940  0.52  0.75  3.10  19.0  15.0 302.2  2.0    0  0.00   59.   998.    2 NAD-SFC NoSubs
11  8 25 237 20  -16.2  0.200 -9.000 -9.000 -999.  220.    43.9 0.2930  0.52  1.00  2.10 347.0  15.0 301.1  2.0    0  0.00   61.   998.    2 NAD-SFC NoSubs
11  8 25 237 21  -38.3  0.373 -9.000 -9.000 -999.  546.   120.2 0.2160  0.52  1.00  4.10 291.0  15.0 299.5  2.0    0  0.00   65.   999.    2 NAD-SFC NoSubs
11  8 25 237 22  -38.7  0.373 -9.000 -9.000 -999.  546.   119.1 0.2160  0.52  1.00  4.10 288.0  15.0 296.8  2.0    0  0.00   75.   999.    2 NAD-SFC NoSubs
11  8 25 237 23  -29.0  0.278 -9.000 -9.000 -999.  357.    66.1 0.2160  0.52  1.00  3.10 298.0  15.0 295.8  2.0    0  0.00   79.  1000.    2 NAD-SFC NoSubs
11  8 25 237 24  -31.0  0.297 -9.000 -9.000 -999.  387.    75.0 0.2720  0.52  1.00  3.10 323.0  15.0 295.2  2.0    0  0.00   80.  1000.    2 NAD-SFC NoSubs
11  8 26 238  1  -25.6  0.252 -9.000 -9.000 -999.  304.    55.5 0.2930  0.52  1.00  2.60 343.0  15.0 294.8  2.0    0  0.00   82.  1000.    2 NAD-SFC NoSubs
11  8 26 238  2  -25.6  0.252 -9.000 -9.000 -999.  303.    55.4 0.2930  0.52  1.00  2.60 352.0  15.0 294.2  2.0    0  0.00   84.  1001.    2 NAD-SFC NoSubs
11  8 26 238  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 293.6  2.0    0  0.00   87.  1001.    2 NAD-SFC NoSubs
11  8 26 238  4   -8.2  0.140 -9.000 -9.000 -999.  126.    29.6 0.2940  0.52  1.00  1.50  10.0  15.0 293.0  2.0    0  0.00   89.  1001.    2 NAD-SFC NoSubs
11  8 26 238  5   -8.3  0.140 -9.000 -9.000 -999.  126.    29.6 0.2940  0.52  1.00  1.50   8.0  15.0 292.5  2.0    0  0.00   90.  1001.    2 NAD-SFC NoSubs
11  8 26 238  6   -4.0  0.102 -9.000 -9.000 -999.   78.    23.7 0.2940  0.52  0.75  1.00   7.0  15.0 292.1  2.0    0  0.00   92.  1002.    2 NAD-SFC NoSubs
11  8 26 238  7   12.7  0.182  0.381  0.010  155.  186.   -42.2 0.2940  0.52  0.36  1.50  11.0  15.0 292.5  2.0    0  0.00   85.  1002.    2 NAD-SFC NoSubs
11  8 26 238  8   60.6 -9.000 -9.000 -9.000  283. -999. -99999.0 0.2235  0.52  0.24  0.00   0.0  15.0 294.1  2.0    0  0.00   77.  1002.    2 NAD-SFC NoSubs
11  8 26 238  9  103.5 -9.000 -9.000 -9.000  407. -999. -99999.0 0.2235  0.52  0.21  0.00   0.0  15.0 295.8  2.0    0  0.00   70.  1002.    2 NAD-SFC NoSubs
11  8 26 238 10  137.7 -9.000 -9.000 -9.000  527. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 297.5  2.0    0  0.00   65.  1002.    2 NAD-SFC NoSubs
11  8 26 238 11  161.5 -9.000 -9.000 -9.000  642. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 299.5  2.0    0  0.00   58.  1001.    2 NAD-SFC NoSubs
11  8 26 238 12  173.5 -9.000 -9.000 -9.000  749. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 300.9  2.0    0  0.00   54.  1001.    2 NAD-SFC NoSubs
11  8 26 238 13  174.0 -9.000 -9.000 -9.000  844. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 302.0  2.0    0  0.00   51.  1000.    2 NAD-SFC NoSubs
11  8 26 238 14  162.6  0.116  1.614  0.014  923.   95.    -1.0 0.2470  0.52  0.19  0.50  42.0  15.0 302.6  2.0    0  0.00   49.  1000.    2 NAD-SFC NoSubs
11  8 26 238 15  139.7  0.114  1.567  0.014  982.   92.    -1.0 0.2470  0.52  0.19  0.50  38.0  15.0 302.9  2.0    0  0.00   49.   999.    2 NAD-SFC NoSubs
11  8 26 238 16  106.1  0.166  1.445  0.014 1014.  163.    -3.9 0.2470  0.52  0.21  1.00  46.0  15.0 303.0  2.0    0  0.00   50.   999.    2 NAD-SFC NoSubs
11  8 26 238 17   63.4  0.197  1.224  0.014 1032.  209.   -10.7 0.2090  0.52  0.24  1.50  74.0  15.0 302.8  2.0    0  0.00   54.   999.    2 NAD-SFC NoSubs
11  8 26 238 18   15.8  0.133  0.772  0.014 1035.  118.   -13.3 0.2470  0.52  0.36  1.00  56.0  15.0 302.1  2.0    0  0.00   58.   999.    2 NAD-SFC NoSubs
11  8 26 238 19    7.2 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  0.76  0.00   0.0  15.0 301.2  2.0    0  0.00   62.   999.    2 NAD-SFC NoSubs
11  8 26 238 20   -1.4  0.079 -9.000 -9.000 -999.   53.    30.9 0.1950  0.52  1.00  0.50 225.0  15.0 300.5  2.0    0  0.00   66.   999.    2 NAD-SFC NoSubs
11  8 26 238 21   -3.4  0.094 -9.000 -9.000 -999.   70.    22.0 0.1950  0.52  1.00  1.00 231.0  15.0 300.1  2.0    0  0.00   67.  1000.    2 NAD-SFC NoSubs
11  8 26 238 22  -12.9  0.173 -9.000 -9.000 -999.  173.    35.9 0.1750  0.52  1.00  2.10 264.0  15.0 299.8  2.0    0  0.00   67.  1000.    2 NAD-SFC NoSubs
11  8 26 238 23  -14.1  0.183 -9.000 -9.000 -999.  188.    38.7 0.2160  0.52  1.00  2.10 270.0  15.0 298.8  2.0    0  0.00   67.  1000.    2 NAD-SFC NoSubs
11  8 26 238 24  -22.1  0.231 -9.000 -9.000 -999.  266.    49.6 0.2160  0.52  1.00  2.60 294.0  15.0 298.1  2.0    0  0.00   66.  1000.    2 NAD-SFC NoSubs
11  8 27 239  1  -33.8  0.325 -9.000 -9.000 -999.  445.    90.9 0.2160  0.52  1.00  3.60 295.0  15.0 297.2  2.0    0  0.00   68.  1001.    2 NAD-SFC NoSubs
11  8 27 239  2  -30.9  0.297 -9.000 -9.000 -999.  388.    75.4 0.2720  0.52  1.00  3.10 311.0  15.0 296.8  2.0    0  0.00   71.  1001.    2 NAD-SFC NoSubs
11  8 27 239  3  -30.9  0.297 -9.000 -9.000 -999.  388.    75.4 0.2720  0.52  1.00  3.10 322.0  15.0 296.4  2.0    0  0.00   74.  1001.    2 NAD-SFC NoSubs
11  8 27 239  4  -16.4  0.200 -9.000 -9.000 -999.  219.    43.4 0.2930  0.52  1.00  2.10 334.0  15.0 296.0  2.0    0  0.00   77.  1001.    2 NAD-SFC NoSubs
11  8 27 239  5   -8.2  0.140 -9.000 -9.000 -999.  126.    29.7 0.2930  0.52  1.00  1.50 341.0  15.0 295.5  2.0    0  0.00   80.  1001.    2 NAD-SFC NoSubs
11  8 27 239  6   -4.0  0.102 -9.000 -9.000 -999.   78.    23.6 0.2930  0.52  0.76  1.00 359.0  15.0 295.1  2.0    0  0.00   82.  1002.    2 NAD-SFC NoSubs
11  8 27 239  7   12.9  0.136  0.367  0.011  136.  120.   -17.3 0.2940  0.52  0.36  1.00  15.0  15.0 294.8  2.0    0  0.00   83.  1002.    2 NAD-SFC NoSubs
11  8 27 239  8   60.4 -9.000 -9.000 -9.000  248. -999. -99999.0 0.2235  0.52  0.24  0.00   0.0  15.0 295.2  2.0    0  0.00   76.  1002.    2 NAD-SFC NoSubs
11  8 27 239  9  103.4  0.113  1.013  0.009  359.   91.    -1.3 0.2930  0.52  0.21  0.50 348.0  15.0 296.6  2.0    0  0.00   70.  1002.    2 NAD-SFC NoSubs
11  8 27 239 10  137.6  0.116  1.246  0.009  503.   95.    -1.0 0.2720  0.52  0.19  0.50 324.0  15.0 298.5  2.0    0  0.00   61.  1002.    2 NAD-SFC NoSubs
11  8 27 239 11  161.1  0.118  1.425  0.010  642.   98.    -1.0 0.2720  0.52  0.19  0.50 325.0  15.0 299.8  2.0    0  0.00   58.  1002.    2 NAD-SFC NoSubs
11  8 27 239 12  173.0 -9.000 -9.000 -9.000  763. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 300.9  2.0    0  0.00   55.  1001.    2 NAD-SFC NoSubs
11  8 27 239 13  173.4  0.122  1.614  0.011  867.  102.    -1.0 0.2930  0.52  0.19  0.50 343.0  15.0 302.1  2.0    0  0.00   52.  1001.    2 NAD-SFC NoSubs
11  8 27 239 14  162.3  0.121  1.631  0.011  955.  101.    -1.0 0.2930  0.52  0.19  0.50 355.0  15.0 303.2  2.0    0  0.00   49.  1000.    2 NAD-SFC NoSubs
11  8 27 239 15  139.6  0.179  1.582  0.010 1014.  182.    -3.7 0.2940  0.52  0.20  1.00   6.0  15.0 304.2  2.0    0  0.00   47.  1000.    2 NAD-SFC NoSubs
11  8 27 239 16  106.1  0.224  1.464  0.010 1054.  255.    -9.5 0.2940  0.52  0.21  1.50  10.0  15.0 304.8  2.0    0  0.00   46.   999.    2 NAD-SFC NoSubs
11  8 27 239 17   63.6  0.212  1.243  0.010 1077.  234.   -13.3 0.2940  0.52  0.24  1.50  22.0  15.0 304.9  2.0    0  0.00   48.   999.    2 NAD-SFC NoSubs
11  8 27 239 18   16.1  0.139  0.788  0.010 1083.  126.   -14.8 0.2940  0.52  0.37  1.00  19.0  15.0 304.6  2.0    0  0.00   52.   999.    2 NAD-SFC NoSubs
11  8 27 239 19   -1.6  0.082 -9.000 -9.000 -999.   57.    31.5 0.2720  0.52  1.00  0.50 322.0  15.0 303.4  2.0    0  0.00   56.   999.    2 NAD-SFC NoSubs
11  8 27 239 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 302.0  2.0    0  0.00   62.  1000.    2 NAD-SFC NoSubs
11  8 27 239 21   -3.3  0.093 -9.000 -9.000 -999.   68.    21.6 0.1750  0.52  1.00  1.00 254.0  15.0 301.0  2.0    0  0.00   66.  1000.    2 NAD-SFC NoSubs
11  8 27 239 22  -27.1  0.263 -9.000 -9.000 -999.  324.    60.1 0.1750  0.52  1.00  3.10 269.0  15.0 299.8  2.0    0  0.00   66.  1000.    2 NAD-SFC NoSubs
11  8 27 239 23  -28.8  0.278 -9.000 -9.000 -999.  352.    66.7 0.2160  0.52  1.00  3.10 281.0  15.0 298.4  2.0    0  0.00   64.  1000.    2 NAD-SFC NoSubs
11  8 27 239 24  -33.8  0.325 -9.000 -9.000 -999.  445.    90.9 0.2160  0.52  1.00  3.60 294.0  15.0 297.2  2.0    0  0.00   63.  1000.    2 NAD-SFC NoSubs
11  8 28 240  1  -36.1  0.347 -9.000 -9.000 -999.  490.   103.1 0.2720  0.52  1.00  3.60 306.0  15.0 296.4  2.0    0  0.00   65.  1000.    2 NAD-SFC NoSubs
11  8 28 240  2  -30.9  0.297 -9.000 -9.000 -999.  389.    75.2 0.2720  0.52  1.00  3.10 322.0  15.0 296.0  2.0    0  0.00   68.  1000.    2 NAD-SFC NoSubs
11  8 28 240  3  -25.6  0.252 -9.000 -9.000 -999.  304.    55.6 0.2930  0.52  1.00  2.60 331.0  15.0 295.4  2.0    0  0.00   72.  1000.    2 NAD-SFC NoSubs
11  8 28 240  4   -8.2  0.140 -9.000 -9.000 -999.  132.    29.7 0.2930  0.52  1.00  1.50 344.0  15.0 294.8  2.0    0  0.00   76.  1000.    2 NAD-SFC NoSubs
11  8 28 240  5   -8.2  0.140 -9.000 -9.000 -999.  125.    29.6 0.2930  0.52  1.00  1.50 341.0  15.0 294.1  2.0    0  0.00   80.  1000.    2 NAD-SFC NoSubs
11  8 28 240  6   -7.9  0.137 -9.000 -9.000 -999.  122.    28.8 0.2720  0.52  0.77  1.50 317.0  15.0 293.6  2.0    0  0.00   83.  1000.    2 NAD-SFC NoSubs
11  8 28 240  7   12.1  0.236  0.335  0.010  111.  275.   -97.0 0.2930  0.52  0.36  2.10 355.0  15.0 293.8  2.0    0  0.00   80.  1000.    2 NAD-SFC NoSubs
11  8 28 240  8   59.9  0.210  0.678  0.011  185.  231.   -13.8 0.2930  0.52  0.24  1.50 331.0  15.0 295.2  2.0    0  0.00   72.  1000.    2 NAD-SFC NoSubs
11  8 28 240  9  103.2  0.169  0.949  0.010  295.  167.    -4.2 0.2720  0.52  0.21  1.00 318.0  15.0 297.5  2.0    0  0.00   64.  1000.    2 NAD-SFC NoSubs
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11	8	28	240	10	137.6	0.176	1.171	0.009	416.	177.	-3.5	0.2720	0.52	0.20	1.00	311.0	15.0	299.8	2.0	0	0.00	55.	1000.	2	NAD-SFC	NoSubs
11	8	28	240	11	161.4	0.119	1.394	0.011	599.	99.	-1.0	0.2720	0.52	0.19	0.50	315.0	15.0	301.5	2.0	0	0.00	51.	999.	2	NAD-SFC	NoSubs
11	8	28	240	12	173.5	0.122	1.521	0.011	724.	102.	-1.0	0.2930	0.52	0.19	0.50	334.0	15.0	303.1	2.0	0	0.00	48.	999.	2	NAD-SFC	NoSubs
11	8	28	240	13	174.0	0.122	1.587	0.012	818.	102.	-1.0	0.2930	0.52	0.19	0.50	348.0	15.0	304.5	2.0	0	0.00	44.	998.	2	NAD-SFC	NoSubs
11	8	28	240	14	162.8	-9.000	-9.000	-9.000	898.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	305.5	2.0	0	0.00	42.	997.	2	NAD-SFC	NoSubs
11	8	28	240	15	139.8	0.231	1.557	0.011	961.	267.	-7.9	0.2940	0.52	0.20	1.50	14.0	15.0	306.1	2.0	0	0.00	41.	997.	2	NAD-SFC	NoSubs
11	8	28	240	16	106.2	0.224	1.441	0.010	1003.	255.	-9.5	0.2940	0.52	0.21	1.50	12.0	15.0	306.4	2.0	0	0.00	37.	996.	2	NAD-SFC	NoSubs
11	8	28	240	17	63.2	0.211	1.222	0.010	1025.	233.	-13.3	0.2940	0.52	0.24	1.50	29.0	15.0	306.0	2.0	0	0.00	44.	996.	2	NAD-SFC	NoSubs
11	8	28	240	18	15.6	0.286	0.768	0.010	1030.	368.	-133.7	0.2940	0.52	0.37	2.60	29.0	15.0	305.5	2.0	0	0.00	47.	996.	2	NAD-SFC	NoSubs
11	8	28	240	19	-16.2	0.200	-9.000	-9.000	-999.	218.	44.2	0.2940	0.52	1.00	2.10	24.0	15.0	304.1	2.0	0	0.00	51.	997.	2	NAD-SFC	NoSubs
11	8	28	240	20	-21.8	0.231	-9.000	-9.000	-999.	266.	50.0	0.2160	0.52	1.00	2.60	288.0	15.0	302.9	2.0	0	0.00	54.	997.	2	NAD-SFC	NoSubs
11	8	28	240	21	-43.2	0.420	-9.000	-9.000	-999.	653.	152.8	0.2160	0.52	1.00	4.60	280.0	15.0	299.5	2.0	0	0.00	62.	998.	2	NAD-SFC	NoSubs
11	8	28	240	22	-33.7	0.325	-9.000	-9.000	-999.	451.	90.9	0.2160	0.52	1.00	3.60	282.0	15.0	297.2	2.0	0	0.00	67.	998.	2	NAD-SFC	NoSubs
11	8	28	240	23	-28.9	0.278	-9.000	-9.000	-999.	353.	66.3	0.2160	0.52	1.00	3.10	283.0	15.0	296.8	2.0	0	0.00	67.	998.	2	NAD-SFC	NoSubs
11	8	28	240	24	-28.9	0.278	-9.000	-9.000	-999.	352.	66.3	0.2160	0.52	1.00	3.10	286.0	15.0	296.5	2.0	0	0.00	67.	998.	2	NAD-SFC	NoSubs
11	8	29	241	1	-30.8	0.297	-9.000	-9.000	-999.	387.	75.3	0.2720	0.52	1.00	3.10	303.0	15.0	296.2	2.0	0	0.00	69.	998.	2	NAD-SFC	NoSubs
11	8	29	241	2	-15.8	0.195	-9.000	-9.000	-999.	212.	42.1	0.2720	0.52	1.00	2.10	323.0	15.0	295.8	2.0	0	0.00	72.	999.	2	NAD-SFC	NoSubs
11	8	29	241	3	-4.0	0.102	-9.000	-9.000	-999.	82.	23.6	0.2930	0.52	1.00	1.00	343.0	15.0	295.2	2.0	0	0.00	76.	999.	2	NAD-SFC	NoSubs
11	8	29	241	4	-4.0	0.102	-9.000	-9.000	-999.	78.	23.7	0.2940	0.52	1.00	1.00	4.0	15.0	294.6	2.0	0	0.00	80.	998.	2	NAD-SFC	NoSubs
11	8	29	241	5	-4.0	0.102	-9.000	-9.000	-999.	78.	23.6	0.2930	0.52	1.00	1.00	347.0	15.0	294.0	2.0	0	0.00	84.	999.	2	NAD-SFC	NoSubs
11	8	29	241	6	-4.0	0.102	-9.000	-9.000	-999.	78.	23.6	0.2930	0.52	1.00	1.00	340.0	15.0	293.4	2.0	0	0.00	86.	999.	2	NAD-SFC	NoSubs
11	8	29	241	7	11.5	0.180	0.331	0.010	112.	184.	-45.2	0.2930	0.52	0.37	1.50	360.0	15.0	293.8	2.0	0	0.00	83.	999.	2	NAD-SFC	NoSubs
11	8	29	241	8	59.4	0.161	0.690	0.010	197.	155.	-6.3	0.2930	0.52	0.24	1.00	354.0	15.0	295.2	2.0	0	0.00	74.	999.	2	NAD-SFC	NoSubs
11	8	29	241	9	102.8	-9.000	-9.000	-9.000	332.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	297.6	2.0	0	0.00	65.	999.	2	NAD-SFC	NoSubs
11	8	29	241	10	137.0	-9.000	-9.000	-9.000	487.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	299.5	2.0	0	0.00	59.	999.	2	NAD-SFC	NoSubs
11	8	29	241	11	160.7	-9.000	-9.000	-9.000	643.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.2	2.0	0	0.00	54.	999.	2	NAD-SFC	NoSubs
11	8	29	241	12	172.7	-9.000	-9.000	-9.000	747.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.8	2.0	0	0.00	50.	998.	2	NAD-SFC	NoSubs
11	8	29	241	13	173.1	0.122	1.596	0.013	836.	102.	-1.0	0.2930	0.52	0.19	0.50	336.0	15.0	304.0	2.0	0	0.00	46.	997.	2	NAD-SFC	NoSubs
11	8	29	241	14	161.7	0.121	1.606	0.012	911.	101.	-1.0	0.2930	0.52	0.19	0.50	357.0	15.0	304.9	2.0	0	0.00	43.	997.	2	NAD-SFC	NoSubs
11	8	29	241	15	138.7	-9.000	-9.000	-9.000	972.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	305.5	2.0	0	0.00	42.	996.	2	NAD-SFC	NoSubs
11	8	29	241	16	104.9	0.281	1.437	0.011	1007.	358.	-18.9	0.2940	0.52	0.21	2.10	6.0	15.0	305.8	2.0	0	0.00	41.	996.	2	NAD-SFC	NoSubs
11	8	29	241	17	61.7	0.267	1.213	0.011	1027.	332.	-27.4	0.2940	0.52	0.25	2.10	19.0	15.0	305.2	2.0	0	0.00	48.	996.	2	NAD-SFC	NoSubs
11	8	29	241	18	14.2	0.285	0.744	0.011	1031.	365.	-145.1	0.2940	0.52	0.38	2.60	23.0	15.0	304.8	2.0	0	0.00	51.	996.	2	NAD-SFC	NoSubs
11	8	29	241	19	-16.0	0.201	-9.000	-9.000	-999.	218.	44.8	0.2940	0.52	1.00	2.10	10.0	15.0	303.2	2.0	0	0.00	55.	996.	3	NAD-SFC	NoSubs
11	8	29	241	20	-7.7	0.137	-9.000	-9.000	-999.	123.	29.6	0.2720	0.52	1.00	1.50	304.0	15.0	302.2	2.0	0	0.00	58.	996.	3	NAD-SFC	NoSubs
11	8	29	241	21	-39.8	0.398	-9.000	-9.000	-999.	603.	140.9	0.1750	0.52	1.00	4.60	258.0	15.0	299.6	2.0	0	0.00	66.	997.	3	NAD-SFC	NoSubs
11	8	29	241	22	-42.4	0.420	-9.000	-9.000	-999.	653.	155.4	0.2160	0.52	1.00	4.60	273.0	15.0	296.8	2.0	0	0.00	74.	997.	3	NAD-SFC	NoSubs
11	8	29	241	23	-28.2	0.278	-9.000	-9.000	-999.	366.	68.0	0.2160	0.52	1.00	3.10	292.0	15.0	296.2	2.0	0	0.00	75.	997.	3	NAD-SFC	NoSubs
11	8	29	241	24	-30.1	0.297	-9.000	-9.000	-999.	388.	77.2	0.2720	0.52	1.00	3.10	305.0	15.0	295.8	2.0	0	0.00	77.	997.	3	NAD-SFC	NoSubs
11	8	30	242	1	-30.1	0.297	-9.000	-9.000	-999.	388.	77.0	0.2720	0.52	1.00	3.10	319.0	15.0	295.0	2.0	0	0.00	79.	997.	3	NAD-SFC	NoSubs
11	8	30	242	2	-30.9	0.303	-9.000	-9.000	-999.	401.	80.3	0.2930	0.52	1.00	3.10	349.0	15.0	294.2	2.0	0	0.00	82.	998.	3	NAD-SFC	NoSubs
11	8	30	242	3	-16.2	0.200	-9.000	-9.000	-999.	220.	43.9	0.2930	0.52	1.00	2.10	358.0	15.0	293.6	2.0	0	0.00	84.	998.	3	NAD-SFC	NoSubs
11	8	30	242	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	292.9	2.0	0	0.00	86.	998.	2	NAD-SFC	NoSubs
11	8	30	242	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	292.2	2.0	0	0.00	88.	998.	2	NAD-SFC	NoSubs
11	8	30	242	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	291.8	2.0	0	0.00	89.	998.	2	NAD-SFC	NoSubs
11	8	30	242	7	10.5	0.234	0.331	0.010	122.	272.	-108.9	0.2930	0.52	0.37	2.10	360.0	15.0	292.0	2.0	0	0.00	83.	998.	2	NAD-SFC	NoSubs
11	8	30	242	8	58.3	0.161	0.726	0.010	233.	156.	-6.3	0.2930	0.52	0.24	1.00	347.0	15.0	293.6	2.0	0	0.00	75.	998.	2	NAD-SFC	NoSubs
11	8	30	242	9	101.5	-9.000	-9.000	-9.000	372.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	295.6	2.0	0	0.00	66.	998.	2	NAD-SFC	NoSubs
11	8	30	242	10	135.6	-9.000	-9.000	-9.000	511.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	297.4	2.0	0	0.00	63.	998.	2	NAD-SFC	NoSubs
11	8	30	242	11	159.3	-9.000	-9.000	-9.000	639.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.4	2.0	0	0.00	58.	997.	2	NAD-SFC	NoSubs
11	8	30	242	12	171.4	-9.000	-9.000	-9.000	750.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.1	2.0	0	0.00	52.	996.	2	NAD-SFC	NoSubs
11	8	30	242	13	171.8	0.120	1.599	0.011	847.	99.	-1.0	0.2720	0.52	0.19	0.50	312.0	15.0	302.6	2.0	0	0.00	46.	995.	2	NAD-SFC	NoSubs
11	8	30	242	14	160.4	0.182	1.612	0.011	928.	186.	-3.3	0.2930	0.52	0.19	1.00	332.0	15.0	303.8	2.0	0	0.00	41.	995.	2	NAD-SFC	NoSubs
11	8	30	242	15	137.3	0.231	1.565	0.011	991.	266.	-7.9	0.2930	0.52	0.20	1.50	347.0	15.0	304.4	2.0	0	0.00	38.	994.	2	NAD-SFC	NoSubs
11	8	30	242	16	103.4	0.281	1.443	0.011	1031.	357.	-19.0	0.2930	0.52	0.21	2.10	347.0	15.0	304.8	2.0	0	0.00	36.	994.	2	NAD-SFC	NoSubs
11	8	30	242	17	60.2	0.266	1.214	0.012	1054.	330.	-27.8	0.2930	0.52	0.25	2.10	354.0	15.0	304.2	2.0	0	0.00	43.	993.	2	NAD-SFC	NoSubs
11	8	30	242	18	12.6	0.372	0.721	0.012	1057.	544.	-362.5	0.2720	0.52	0.38	3.60	317.0	15.0	303.5	2.0	0	0.00	45.	994.	2	NAD-SFC	NoSubs
11	8	30	242	19	-47.8	0.468	-9.000	-9.000	-999.	767.	189.5	0.2160	0.52	1.00	5.10	292.0	15.0	299.8	2.0	0	0.00	56.	994.	2	NAD-SFC	NoSubs
11	8	30	242	20	-54.4	0.525	-9.000	-9.000	-999.	912.	235.8	0.2160	0.52	1.00	5.70	270.0	15.0	296.0	2.0	0	0.00	68.	995.	2	NAD-SFC	NoSubs
11	8	30	242	21	-46.2	0.443	-9.000	-9.000	-999.	714.	166.8	0.1750	0.52	1.00	5.10	268.0	15.0	294.2	2.0	0	0.00	73.	995.	2	NAD-SFC	NoSubs
11	8	30	242	22	-36.9	0.353	-9.000	-9.000	-999.	509.	105.6	0.1750	0.52	1.00	4.10	269.0	15.0	293.2	2.0	0	0.00	77.	995.	2	NAD-SFC	NoSubs
11	8	30	242	23	-37.1	0.353	-9.000	-9.000	-999.	503.	105.1	0.1750	0.52	1.00	4.10	267.0	15.0	292.1	2.0	0	0.00	80.	996.	2	NAD-SFC	NoSubs
11	8	30	242	24	-28.6	0.278	-9.000	-9.000	-999.	355.	66.8	0.2160	0.52	1.00	3.10	278.0	15.0	291.2	2.0	0	0.00	82.	996.	3	NAD-SFC	NoSubs
11	8	31	243	1	-22.0	0.231	-9.000	-9.000	-999.	267.	49.6	0.2160	0.52	1.00	2.60	288.0	15.0	290.8	2.0	0	0.00	83.	996.	3	NAD-SFC	NoSubs
11	8	31	243	2	-15.7	0.195	-9.000	-9.000	-999.	208.	42.3	0.2720	0.52	1.00	2.10	313.0	15.0	290.2	2.0	0	0.00	82.	996.	3	NAD-SFC	NoSubs
11	8	31	243	3	-15.7	0.195	-9.000	-9.000	-999.	207.	42.3	0.2720	0.52	1.00	2.10	324.0	15.0	290.1	2.0	0	0.00	81.	996.	3	NAD-SFC	NoSubs
11	8	31	243	4	-15.9	0.195	-9.000	-9.000	-999.	207.	41.6	0.2720	0.52	1.00	2.10	321.0	15.0	289.9	2.0	0	0.00	80.	996.	2	NAD-SFC	NoSubs
11	8	31	243	5	-15.9	0.195	-9.000	-9.000	-999.	207.	41.6	0.2720	0.52	1.00	2.10	318.0	15.0	289.8	2.0	0	0.00	79.	996.	2	NAD-SFC	NoSubs
11	8	31	243	6	-8.3	0.140	-9.000	-9.000	-999.	126.	29.4	0.2930	0.52	1.00	1.50	343.0	15.0	289.4	2.0	0	0.00	80.	997.	2	NAD-SFC	NoSubs
11	8	31	243	7	9.4	0.229	0.265	0.009	70.	263.	-113.0	0.2720	0.52	0.37	2.10	312.0	15.0	290.2	2.0	0	0.00	75.	997.	2	NAD-SFC	NoSubs
11	8	31	243	8	57.3	0.158	0.664	0.009	181.	152.	-6.1	0.2720	0.52	0.24	1.00	325.0	15.0	292.1	2.0	0	0.00	68.	997.	2	NAD-SFC	NoSubs
11	8	31	243	9	100.4	-9.000	-9.000	-9.000	350.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	294.1	2.0	0	0.00	62.	997.	2	NAD-SFC	NoSubs
11	8	31	243	10	134.6	-9.000	-9.000	-9.000	506.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.0	2.0	0	0.00	58.	997.	2	NAD-SFC	NoSubs
11	8	31	243	11	158.3	-9.000	-9.000	-9.000	645.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.2	2.0	0	0.00	51.	996.	2	NAD-SFC	NoSubs
11	8	31	243	12	170.3	-9.000	-9.000	-9.000	758.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.1	2.0	0	0.00	44.	996.	2	NAD-SFC	NoSubs
11	8	31	243	13	170.6	-9.000	-9.000	-9.000	857.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.5	2.0	0	0.00	39.	995.	2	NAD-SFC	NoSubs
11	8	31	243	14	159.1	0.120	1.614	0.011	939.	100.	-1.0	0.2930	0.52	0.19	0.50	340.0	15.0	302.6	2.0	0	0.00	36.	995.	2	NAD-SFC	NoSubs

11	8	31	243	15	135.8	0.179	1.564	0.011	1001.	181.	-3.7	0.2940	0.52	0.20	1.00	4.0	15.0	303.2	2.0	0	0.00	35.	994.	2	NAD-SFC	NoSubs
11	8	31	243	16	101.8	-9.000	-9.000	-9.000	1042.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	303.5	2.0	0	0.00	34.	994.	2	NAD-SFC	NoSubs
11	8	31	243	17	58.6	0.266	1.207	0.011	1064.	329.	-28.5	0.2940	0.52	0.25	2.10	18.0	15.0	303.1	2.0	0	0.00	42.	994.	2	NAD-SFC	NoSubs
11	8	31	243	18	11.1	0.329	0.693	0.011	1067.	453.	-286.1	0.2940	0.52	0.39	3.10	7.0	15.0	302.5	2.0	0	0.00	45.	994.	2	NAD-SFC	NoSubs
11	8	31	243	19	-40.4	0.406	-9.000	-9.000	-999.	621.	147.2	0.2930	0.52	1.00	4.10	335.0	15.0	300.8	2.0	0	0.00	50.	995.	3	NAD-SFC	NoSubs
11	8	31	243	20	-48.4	0.468	-9.000	-9.000	-999.	767.	187.5	0.2160	0.52	1.00	5.10	281.0	15.0	296.8	2.0	0	0.00	65.	996.	2	NAD-SFC	NoSubs
11	8	31	243	21	-43.8	0.420	-9.000	-9.000	-999.	655.	149.9	0.2160	0.52	1.00	4.60	275.0	15.0	294.2	2.0	0	0.00	70.	996.	2	NAD-SFC	NoSubs
11	8	31	243	22	-39.0	0.372	-9.000	-9.000	-999.	547.	117.7	0.2160	0.52	1.00	4.10	276.0	15.0	293.4	2.0	0	0.00	72.	996.	2	NAD-SFC	NoSubs
11	8	31	243	23	-34.1	0.325	-9.000	-9.000	-999.	447.	89.5	0.2160	0.52	1.00	3.60	286.0	15.0	292.6	2.0	0	0.00	74.	996.	2	NAD-SFC	NoSubs
11	8	31	243	24	-31.2	0.296	-9.000	-9.000	-999.	388.	74.2	0.2720	0.52	1.00	3.10	310.0	15.0	292.0	2.0	0	0.00	76.	997.	2	NAD-SFC	NoSubs
11	9	1	244	1	-25.6	0.252	-9.000	-9.000	-999.	304.	55.1	0.2930	0.52	1.00	2.60	330.0	15.0	291.5	2.0	0	0.00	78.	997.	2	NAD-SFC	NoSubs
11	9	1	244	2	-25.7	0.251	-9.000	-9.000	-999.	303.	55.1	0.2930	0.52	1.00	2.60	354.0	15.0	291.0	2.0	0	0.00	80.	997.	2	NAD-SFC	NoSubs
11	9	1	244	3	-25.7	0.251	-9.000	-9.000	-999.	303.	55.0	0.2930	0.52	1.00	2.60	348.0	15.0	290.6	2.0	0	0.00	82.	998.	2	NAD-SFC	NoSubs
11	9	1	244	4	-8.2	0.140	-9.000	-9.000	-999.	132.	29.5	0.2930	0.52	1.00	1.50	338.0	15.0	290.4	2.0	0	0.00	83.	998.	2	NAD-SFC	NoSubs
11	9	1	244	5	-3.9	0.101	-9.000	-9.000	-999.	77.	23.3	0.2720	0.52	1.00	1.00	324.0	15.0	290.2	2.0	0	0.00	83.	998.	2	NAD-SFC	NoSubs
11	9	1	244	6	-1.5	0.081	-9.000	-9.000	-999.	55.	31.5	0.2160	0.52	1.00	0.50	288.0	15.0	290.0	2.0	0	0.00	84.	998.	2	NAD-SFC	NoSubs
11	9	1	244	7	9.1	0.123	0.252	0.011	62.	103.	-18.0	0.2160	0.52	0.37	1.00	274.0	15.0	291.0	2.0	0	0.00	80.	999.	2	NAD-SFC	NoSubs
11	9	1	244	8	57.1	0.098	0.646	0.010	168.	73.	-1.5	0.2160	0.52	0.24	0.50	276.0	15.0	293.2	2.0	0	0.00	71.	999.	2	NAD-SFC	NoSubs
11	9	1	244	9	100.3	-9.000	-9.000	-9.000	301.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	295.1	2.0	0	0.00	68.	999.	2	NAD-SFC	NoSubs
11	9	1	244	10	134.4	-9.000	-9.000	-9.000	466.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.9	2.0	0	0.00	63.	998.	2	NAD-SFC	NoSubs
11	9	1	244	11	158.1	-9.000	-9.000	-9.000	658.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.1	2.0	0	0.00	54.	998.	2	NAD-SFC	NoSubs
11	9	1	244	12	170.0	-9.000	-9.000	-9.000	788.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.8	2.0	0	0.00	47.	997.	2	NAD-SFC	NoSubs
11	9	1	244	13	170.2	-9.000	-9.000	-9.000	902.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.2	2.0	0	0.00	41.	996.	2	NAD-SFC	NoSubs
11	9	1	244	14	158.6	-9.000	-9.000	-9.000	992.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.2	2.0	0	0.00	38.	996.	2	NAD-SFC	NoSubs
11	9	1	244	15	135.3	0.176	1.591	0.010	1057.	176.	-3.5	0.2720	0.52	0.20	1.00	328.0	15.0	303.9	2.0	0	0.00	36.	995.	2	NAD-SFC	NoSubs
11	9	1	244	16	101.2	0.223	1.464	0.010	1103.	253.	-9.7	0.2930	0.52	0.21	1.50	348.0	15.0	304.1	2.0	0	0.00	36.	995.	2	NAD-SFC	NoSubs
11	9	1	244	17	57.8	0.265	1.224	0.010	1127.	328.	-28.7	0.2930	0.52	0.25	2.10	358.0	15.0	303.8	2.0	0	0.00	44.	995.	2	NAD-SFC	NoSubs
11	9	1	244	18	10.3	-9.000	-9.000	-9.000	1130.	-999.	-99999.0	0.2235	0.52	0.39	0.00	0.0	15.0	303.0	2.0	0	0.00	48.	995.	2	NAD-SFC	NoSubs
11	9	1	244	19	-30.9	0.304	-9.000	-9.000	-999.	401.	80.3	0.2940	0.52	1.00	3.10	12.0	15.0	301.6	2.0	0	0.00	52.	995.	2	NAD-SFC	NoSubs
11	9	1	244	20	-8.0	0.140	-9.000	-9.000	-999.	148.	30.4	0.2930	0.52	1.00	1.50	354.0	15.0	300.4	2.0	0	0.00	56.	996.	3	NAD-SFC	NoSubs
11	9	1	244	21	-33.5	0.325	-9.000	-9.000	-999.	445.	91.4	0.2160	0.52	1.00	3.60	279.0	15.0	298.8	2.0	0	0.00	62.	996.	2	NAD-SFC	NoSubs
11	9	1	244	22	-33.8	0.325	-9.000	-9.000	-999.	445.	90.6	0.2160	0.52	1.00	3.60	293.0	15.0	296.2	2.0	0	0.00	72.	997.	2	NAD-SFC	NoSubs
11	9	1	244	23	-36.2	0.347	-9.000	-9.000	-999.	490.	102.4	0.2720	0.52	1.00	3.60	312.0	15.0	294.8	2.0	0	0.00	77.	997.	2	NAD-SFC	NoSubs
11	9	1	244	24	-31.0	0.296	-9.000	-9.000	-999.	389.	74.7	0.2720	0.52	1.00	3.10	306.0	15.0	294.0	2.0	0	0.00	78.	997.	2	NAD-SFC	NoSubs
11	9	2	245	1	-31.1	0.296	-9.000	-9.000	-999.	387.	74.5	0.2720	0.52	1.00	3.10	316.0	15.0	293.2	2.0	0	0.00	80.	998.	2	NAD-SFC	NoSubs
11	9	2	245	2	-24.7	0.246	-9.000	-9.000	-999.	294.	53.6	0.2720	0.52	1.00	2.60	320.0	15.0	292.8	2.0	0	0.00	80.	998.	2	NAD-SFC	NoSubs
11	9	2	245	3	-15.8	0.195	-9.000	-9.000	-999.	208.	41.9	0.2720	0.52	1.00	2.10	310.0	15.0	292.5	2.0	0	0.00	80.	998.	2	NAD-SFC	NoSubs
11	9	2	245	4	-14.2	0.183	-9.000	-9.000	-999.	188.	38.2	0.2160	0.52	1.00	2.10	286.0	15.0	292.2	2.0	0	0.00	81.	998.	2	NAD-SFC	NoSubs
11	9	2	245	5	-14.3	0.183	-9.000	-9.000	-999.	188.	38.2	0.2160	0.52	1.00	2.10	284.0	15.0	292.0	2.0	0	0.00	82.	999.	2	NAD-SFC	NoSubs
11	9	2	245	6	-7.2	0.129	-9.000	-9.000	-999.	111.	26.5	0.2160	0.52	1.00	1.50	270.0	15.0	291.8	2.0	0	0.00	83.	1000.	2	NAD-SFC	NoSubs
11	9	2	245	7	9.0	0.217	0.244	0.008	57.	242.	-101.4	0.2160	0.52	0.38	2.10	295.0	15.0	292.2	2.0	0	0.00	81.	1000.	2	NAD-SFC	NoSubs
11	9	2	245	8	56.8	0.205	0.649	0.008	172.	224.	-13.6	0.2720	0.52	0.25	1.50	310.0	15.0	293.9	2.0	0	0.00	68.	1000.	2	NAD-SFC	NoSubs
11	9	2	245	9	100.1	-9.000	-9.000	-9.000	313.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	296.1	2.0	0	0.00	61.	1000.	2	NAD-SFC	NoSubs
11	9	2	245	10	134.4	-9.000	-9.000	-9.000	480.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	298.2	2.0	0	0.00	54.	1000.	2	NAD-SFC	NoSubs
11	9	2	245	11	158.0	-9.000	-9.000	-9.000	658.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.2	2.0	0	0.00	48.	1000.	2	NAD-SFC	NoSubs
11	9	2	245	12	170.0	-9.000	-9.000	-9.000	826.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.1	2.0	0	0.00	41.	999.	2	NAD-SFC	NoSubs
11	9	2	245	13	170.3	-9.000	-9.000	-9.000	967.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.8	2.0	0	0.00	36.	998.	2	NAD-SFC	NoSubs
11	9	2	245	14	158.6	0.118	1.660	0.010	1028.	98.	-1.0	0.2720	0.52	0.19	0.50	324.0	15.0	304.8	2.0	0	0.00	33.	997.	2	NAD-SFC	NoSubs
11	9	2	245	15	135.3	0.178	1.599	0.010	1075.	181.	-3.7	0.2930	0.52	0.20	1.00	344.0	15.0	305.5	2.0	0	0.00	31.	996.	2	NAD-SFC	NoSubs
11	9	2	245	16	100.5	-9.000	-9.000	-9.000	1107.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	304.8	2.0	0	0.00	31.	996.	2	NAD-SFC	NoSubs
11	9	2	245	17	56.9	0.311	1.217	0.010	1124.	417.	-47.2	0.2940	0.52	0.25	2.60	13.0	15.0	304.0	2.0	0	0.00	42.	996.	2	NAD-SFC	NoSubs
11	9	2	245	18	9.2	0.376	0.664	0.010	1126.	553.	-510.0	0.2940	0.52	0.40	3.60	21.0	15.0	302.9	2.0	0	0.00	46.	996.	2	NAD-SFC	NoSubs
11	9	2	245	19	-30.9	0.304	-9.000	-9.000	-999.	404.	80.3	0.2940	0.52	1.00	3.10	18.0	15.0	301.5	2.0	0	0.00	49.	996.	2	NAD-SFC	NoSubs
11	9	2	245	20	-7.8	0.137	-9.000	-9.000	-999.	146.	29.1	0.2720	0.52	1.00	1.50	306.0	15.0	300.2	2.0	0	0.00	53.	997.	2	NAD-SFC	NoSubs
11	9	2	245	21	-48.3	0.468	-9.000	-9.000	-999.	767.	188.2	0.2160	0.52	1.00	5.10	286.0	15.0	297.8	2.0	0	0.00	60.	997.	2	NAD-SFC	NoSubs
11	9	2	245	22	-38.8	0.373	-9.000	-9.000	-999.	552.	118.4	0.2160	0.52	1.00	4.10	289.0	15.0	295.2	2.0	0	0.00	68.	998.	2	NAD-SFC	NoSubs
11	9	2	245	23	-34.0	0.325	-9.000	-9.000	-999.	447.	90.0	0.2160	0.52	1.00	3.60	295.0	15.0	294.1	2.0	0	0.00	69.	998.	2	NAD-SFC	NoSubs
11	9	2	245	24	-31.1	0.296	-9.000	-9.000	-999.	388.	74.6	0.2720	0.52	1.00	3.10	307.0	15.0	293.4	2.0	0	0.00	70.	999.	2	NAD-SFC	NoSubs
11	9	3	246	1	-25.6	0.252	-9.000	-9.000	-999.	304.	55.3	0.2930	0.52	1.00	2.60	346.0	15.0	293.0	2.0	0	0.00	69.	999.	2	NAD-SFC	NoSubs
11	9	3	246	2	-16.5	0.200	-9.000	-9.000	-999.	215.	43.2	0.2940	0.52	1.00	2.10	8.0	15.0	292.6	2.0	0	0.00	68.	999.	2	NAD-SFC	NoSubs
11	9	3	246	3	-1.7	0.084	-9.000	-9.000	-999.	68.	32.0	0.2940	0.52	1.00	0.50	10.0	15.0	292.2	2.0	0	0.00	67.	1000.	2	NAD-SFC	NoSubs
11	9	3	246	4	-1.4	0.079	-9.000	-9.000	-999.	53.	30.9	0.1750	0.52	1.00	0.50	249.0	15.0	292.1	2.0	0	0.00	67.	1000.	2	NAD-SFC	NoSubs
11	9	3	246	5	-1.4	0.079	-9.000	-9.000	-999.	53.	30.9	0.1750	0.52	1.00	0.50	261.0	15.0	291.8	2.0	0	0.00	67.	1000.	2	NAD-SFC	NoSubs
11	9	3	246	6	3.4	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	291.2	2.0	0	0.00	70.	1001.	2	NAD-SFC	NoSubs
11	9	3	246	7	8.3	-9.000	-9.000	-9.000	60.	-999.	-99999.0	0.2235	0.52	0.38	0.00	0.0	15.0	291.6	2.0	0	0.00	70.	1001.	2	NAD-SFC	NoSubs
11	9	3	246	8	56.2	0.104	0.651	0.008	175.	81.	-1.8	0.2930	0.52	0.25	0.50	341.0	15.0	293.9	2.0	0	0.00	61.	1001.	2	NAD-SFC	NoSubs
11	9	3	246	9	99.4	-9.000	-9.000	-9.000	352.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	295.8	2.0	0	0.00	54.	1001.	2	NAD-SFC	NoSubs
11	9	3	246	10	133.4	-9.000	-9.000	-9.000	522.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	297.2	2.0	0	0.00	49.	1001.	2	NAD-SFC	NoSubs
11	9	3	246	11	156.9	-9.000	-9.000	-9.000	675.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.1	2.0	0	0.00	45.	1000.	2	NAD-SFC	NoSubs
11	9	3	246	12	168.9	-9.000	-9.000	-9.000	824.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.0	2.0	0	0.00	40.	1000.	2	NAD-SFC	NoSubs
11	9	3	246	13	169.0	-9.000	-9.000	-9.000	951.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.4	2.0	0	0.00	37.	999.	2	NAD-SFC	NoSubs
11	9	3	246	14	157.2	-9.000	-9.000	-9.000	1021.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	303.5	2.0	0	0.00	35.	998.	2	NAD-SFC	NoSubs
11	9	3	246	15	133.7	0.117	1.589	0.010	1070.	96.	-1.1	0.2940	0.52	0.20	0.50	6.0	15.0	304.2	2.0	0	0.00	34.	998.	2	NAD-SFC	NoSubs
11	9	3	246	16	99.4	0.223	1.456	0.010	1105.	252.	-9.9	0.2940	0.52	0.21	1.50	17.0	15.0	304.4	2.0	0	0.00	34.	997.	2	NAD-SFC	NoSubs
11	9	3	246	17	55.8	0.209	1.208	0.009	1123.	229.	-14.5	0.2940	0.52	0.25	1.50	26.0	15.0	304.0	2.0	0	0.00	41.	997.	2	NAD-SFC	NoSubs
11	9	3	246	18	8.4	0.279	0.643	0.009	1125.	353.	-229.3	0.2940	0.52	0.40	2.60	26.0	15.0	303.2	2.0	0	0.00	44.	997.	2	NAD-SFC	NoSubs
11	9	3	246	19	-8.1	0.140	-9.000	-9.000	-999.	139.	30.1	0.2940	0.52	1.00	1.50	15.0	15.0	301.9	2.0	0	0.00	48.	997.	2	NAD-SFC	NoSubs

11	9	3	246	20	-35.5	0.347	-9.000	-9.000	-999.	490.	104.5	0.2720	0.52	1.00	3.60	302.0	15.0	300.5	2.0	0	0.00	53.	998.	2	NAD-SFC	NoSubs
11	9	3	246	21	-43.6	0.420	-9.000	-9.000	-999.	653.	151.1	0.2160	0.52	1.00	4.60	292.0	15.0	296.4	2.0	0	0.00	67.	998.	2	NAD-SFC	NoSubs
11	9	3	246	22	-38.9	0.373	-9.000	-9.000	-999.	547.	118.2	0.2160	0.52	1.00	4.10	290.0	15.0	294.8	2.0	0	0.00	69.	998.	2	NAD-SFC	NoSubs
11	9	3	246	23	-34.1	0.325	-9.000	-9.000	-999.	447.	89.8	0.2160	0.52	1.00	3.60	298.0	15.0	293.8	2.0	0	0.00	71.	999.	2	NAD-SFC	NoSubs
11	9	3	246	24	-31.9	0.303	-9.000	-9.000	-999.	401.	77.8	0.2930	0.52	1.00	3.10	333.0	15.0	292.9	2.0	0	0.00	71.	999.	2	NAD-SFC	NoSubs
11	9	4	247	1	-32.0	0.303	-9.000	-9.000	-999.	400.	77.6	0.2930	0.52	1.00	3.10	353.0	15.0	292.2	2.0	0	0.00	71.	999.	2	NAD-SFC	NoSubs
11	9	4	247	2	-25.8	0.252	-9.000	-9.000	-999.	304.	55.3	0.2940	0.52	1.00	2.60	2.0	15.0	291.9	2.0	0	0.00	70.	1000.	2	NAD-SFC	NoSubs
11	9	4	247	3	-8.3	0.140	-9.000	-9.000	-999.	132.	29.6	0.2940	0.52	1.00	1.50	2.0	15.0	291.8	2.0	0	0.00	69.	1000.	2	NAD-SFC	NoSubs
11	9	4	247	4	-1.7	0.084	-9.000	-9.000	-999.	59.	32.0	0.2930	0.52	1.00	0.50	341.0	15.0	291.5	2.0	0	0.00	68.	1001.	2	NAD-SFC	NoSubs
11	9	4	247	5	-1.6	0.083	-9.000	-9.000	-999.	58.	31.9	0.2720	0.52	1.00	0.50	314.0	15.0	291.2	2.0	0	0.00	70.	1001.	2	NAD-SFC	NoSubs
11	9	4	247	6	-1.6	0.083	-9.000	-9.000	-999.	58.	31.9	0.2720	0.52	1.00	0.50	327.0	15.0	290.8	2.0	0	0.00	73.	1001.	2	NAD-SFC	NoSubs
11	9	4	247	7	7.6	0.175	0.226	0.010	54.	175.	-62.7	0.2930	0.52	0.38	1.50	346.0	15.0	291.1	2.0	0	0.00	74.	1002.	2	NAD-SFC	NoSubs
11	9	4	247	8	55.3	0.160	0.653	0.010	180.	153.	-6.6	0.2930	0.52	0.25	1.00	349.0	15.0	292.8	2.0	0	0.00	70.	1002.	2	NAD-SFC	NoSubs
11	9	4	247	9	98.6	-9.000	-9.000	-9.000	321.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	294.9	2.0	0	0.00	62.	1002.	2	NAD-SFC	NoSubs
11	9	4	247	10	132.8	-9.000	-9.000	-9.000	468.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	296.9	2.0	0	0.00	56.	1001.	2	NAD-SFC	NoSubs
11	9	4	247	11	156.2	-9.000	-9.000	-9.000	613.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.8	2.0	0	0.00	52.	1001.	2	NAD-SFC	NoSubs
11	9	4	247	12	168.0	-9.000	-9.000	-9.000	734.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.5	2.0	0	0.00	47.	1000.	2	NAD-SFC	NoSubs
11	9	4	247	13	167.9	-9.000	-9.000	-9.000	836.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.8	2.0	0	0.00	44.	1000.	2	NAD-SFC	NoSubs
11	9	4	247	14	156.1	0.120	1.592	0.012	922.	100.	-1.0	0.2930	0.52	0.19	0.50	345.0	15.0	302.9	2.0	0	0.00	41.	999.	2	NAD-SFC	NoSubs
11	9	4	247	15	132.6	0.178	1.540	0.011	984.	180.	-3.8	0.2940	0.52	0.20	1.00	5.0	15.0	303.8	2.0	0	0.00	39.	999.	2	NAD-SFC	NoSubs
11	9	4	247	16	98.1	0.222	1.410	0.011	1018.	252.	-10.0	0.2940	0.52	0.21	1.50	13.0	15.0	303.9	2.0	0	0.00	39.	998.	2	NAD-SFC	NoSubs
11	9	4	247	17	54.6	0.200	1.166	0.011	1036.	215.	-13.1	0.2470	0.52	0.26	1.50	32.0	15.0	303.8	2.0	0	0.00	45.	998.	2	NAD-SFC	NoSubs
11	9	4	247	18	7.3	0.168	0.596	0.011	1037.	165.	-57.7	0.2470	0.52	0.41	1.50	44.0	15.0	303.0	2.0	0	0.00	48.	998.	2	NAD-SFC	NoSubs
11	9	4	247	19	-1.6	0.083	-9.000	-9.000	-999.	60.	31.7	0.2940	0.52	1.00	0.50	14.0	15.0	301.8	2.0	0	0.00	53.	998.	2	NAD-SFC	NoSubs
11	9	4	247	20	-38.3	0.373	-9.000	-9.000	-999.	546.	120.4	0.2160	0.52	1.00	4.10	294.0	15.0	300.0	2.0	0	0.00	58.	999.	2	NAD-SFC	NoSubs
11	9	4	247	21	-48.8	0.468	-9.000	-9.000	-999.	767.	186.7	0.2160	0.52	1.00	5.10	281.0	15.0	295.4	2.0	0	0.00	67.	999.	2	NAD-SFC	NoSubs
11	9	4	247	22	-49.1	0.467	-9.000	-9.000	-999.	767.	185.5	0.2160	0.52	1.00	5.10	285.0	15.0	293.6	2.0	0	0.00	68.	1000.	2	NAD-SFC	NoSubs
11	9	4	247	23	-39.3	0.372	-9.000	-9.000	-999.	552.	117.3	0.2160	0.52	1.00	4.10	287.0	15.0	292.4	2.0	0	0.00	71.	1000.	2	NAD-SFC	NoSubs
11	9	4	247	24	-31.4	0.296	-9.000	-9.000	-999.	391.	74.0	0.2720	0.52	1.00	3.10	317.0	15.0	291.5	2.0	0	0.00	72.	1001.	2	NAD-SFC	NoSubs
11	9	5	248	1	-32.2	0.303	-9.000	-9.000	-999.	400.	77.2	0.2930	0.52	1.00	3.10	334.0	15.0	290.9	2.0	0	0.00	73.	1001.	2	NAD-SFC	NoSubs
11	9	5	248	2	-24.9	0.246	-9.000	-9.000	-999.	294.	53.4	0.2720	0.52	1.00	2.60	325.0	15.0	290.6	2.0	0	0.00	72.	1002.	2	NAD-SFC	NoSubs
11	9	5	248	3	-14.3	0.183	-9.000	-9.000	-999.	189.	38.1	0.2160	0.52	1.00	2.10	298.0	15.0	290.4	2.0	0	0.00	71.	1002.	2	NAD-SFC	NoSubs
11	9	5	248	4	-3.9	0.101	-9.000	-9.000	-999.	79.	23.3	0.2720	0.52	1.00	1.00	317.0	15.0	290.2	2.0	0	0.00	71.	1002.	2	NAD-SFC	NoSubs
11	9	5	248	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	289.9	2.0	0	0.00	74.	1002.	2	NAD-SFC	NoSubs
11	9	5	248	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	289.4	2.0	0	0.00	78.	1003.	2	NAD-SFC	NoSubs
11	9	5	248	7	6.7	0.080	0.238	0.011	72.	54.	-6.7	0.2940	0.52	0.38	0.50	12.0	15.0	289.9	2.0	0	0.00	76.	1003.	2	NAD-SFC	NoSubs
11	9	5	248	8	54.4	-9.000	-9.000	-9.000	242.	-999.	-99999.0	0.2235	0.52	0.25	0.00	0.0	15.0	291.6	2.0	0	0.00	69.	1003.	2	NAD-SFC	NoSubs
11	9	5	248	9	97.6	-9.000	-9.000	-9.000	354.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	293.8	2.0	0	0.00	61.	1002.	2	NAD-SFC	NoSubs
11	9	5	248	10	131.7	-9.000	-9.000	-9.000	465.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	295.6	2.0	0	0.00	57.	1002.	2	NAD-SFC	NoSubs
11	9	5	248	11	155.0	-9.000	-9.000	-9.000	569.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.4	2.0	0	0.00	54.	1002.	2	NAD-SFC	NoSubs
11	9	5	248	12	166.8	-9.000	-9.000	-9.000	667.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.2	2.0	0	0.00	49.	1001.	2	NAD-SFC	NoSubs
11	9	5	248	13	166.7	0.183	1.533	0.012	771.	188.	-3.3	0.2930	0.52	0.19	1.00	336.0	15.0	300.8	2.0	0	0.00	45.	1000.	2	NAD-SFC	NoSubs
11	9	5	248	14	154.7	0.234	1.548	0.012	857.	271.	-7.3	0.2930	0.52	0.19	1.50	350.0	15.0	301.6	2.0	0	0.00	43.	1000.	2	NAD-SFC	NoSubs
11	9	5	248	15	130.9	-9.000	-9.000	-9.000	923.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	302.2	2.0	0	0.00	42.	999.	2	NAD-SFC	NoSubs
11	9	5	248	16	96.3	0.279	1.378	0.013	969.	354.	-20.1	0.2940	0.52	0.21	2.10	11.0	15.0	302.4	2.0	0	0.00	42.	999.	2	NAD-SFC	NoSubs
11	9	5	248	17	52.7	0.207	1.135	0.013	988.	229.	-15.1	0.2940	0.52	0.26	1.50	18.0	15.0	302.2	2.0	0	0.00	47.	998.	2	NAD-SFC	NoSubs
11	9	5	248	18	5.6	0.165	0.537	0.013	988.	161.	-71.3	0.2470	0.52	0.42	1.50	41.0	15.0	301.6	2.0	0	0.00	50.	999.	2	NAD-SFC	NoSubs
11	9	5	248	19	-3.7	0.098	-9.000	-9.000	-999.	75.	22.9	0.2470	0.52	1.00	1.00	48.0	15.0	300.2	2.0	0	0.00	53.	999.	2	NAD-SFC	NoSubs
11	9	5	248	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	298.9	2.0	0	0.00	59.	999.	2	NAD-SFC	NoSubs
11	9	5	248	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	297.5	2.0	0	0.00	65.	1000.	2	NAD-SFC	NoSubs
11	9	5	248	22	-1.5	0.080	-9.000	-9.000	-999.	55.	31.2	0.2160	0.52	1.00	0.50	286.0	15.0	296.2	2.0	0	0.00	71.	1000.	2	NAD-SFC	NoSubs
11	9	5	248	23	-7.9	0.137	-9.000	-9.000	-999.	121.	28.9	0.2720	0.52	1.00	1.50	304.0	15.0	295.2	2.0	0	0.00	74.	1001.	2	NAD-SFC	NoSubs
11	9	5	248	24	-24.7	0.246	-9.000	-9.000	-999.	293.	53.8	0.2720	0.52	1.00	2.60	314.0	15.0	294.6	2.0	0	0.00	75.	1001.	2	NAD-SFC	NoSubs
11	9	6	249	1	-36.4	0.347	-9.000	-9.000	-999.	490.	102.2	0.2720	0.52	1.00	3.60	321.0	15.0	294.0	2.0	0	0.00	75.	1001.	2	NAD-SFC	NoSubs
11	9	6	249	2	-31.3	0.296	-9.000	-9.000	-999.	389.	74.5	0.2720	0.52	1.00	3.10	328.0	15.0	293.1	2.0	0	0.00	78.	1002.	2	NAD-SFC	NoSubs
11	9	6	249	3	-25.7	0.252	-9.000	-9.000	-999.	304.	55.2	0.2930	0.52	1.00	2.60	340.0	15.0	292.2	2.0	0	0.00	81.	1002.	2	NAD-SFC	NoSubs
11	9	6	249	4	-8.3	0.140	-9.000	-9.000	-999.	132.	29.5	0.2930	0.52	1.00	1.50	342.0	15.0	291.6	2.0	0	0.00	83.	1002.	2	NAD-SFC	NoSubs
11	9	6	249	5	-4.0	0.102	-9.000	-9.000	-999.	79.	23.6	0.2930	0.52	1.00	1.00	345.0	15.0	291.0	2.0	0	0.00	86.	1002.	2	NAD-SFC	NoSubs
11	9	6	249	6	-1.7	0.084	-9.000	-9.000	-999.	59.	32.0	0.2930	0.52	1.00	0.50	340.0	15.0	290.5	2.0	0	0.00	88.	1003.	2	NAD-SFC	NoSubs
11	9	6	249	7	6.4	0.127	0.243	0.013	80.	108.	-28.3	0.2930	0.52	0.39	1.00	353.0	15.0	290.8	2.0	0	0.00	85.	1003.	2	NAD-SFC	NoSubs
11	9	6	249	8	54.0	0.104	0.621	0.011	159.	80.	-1.8	0.2930	0.52	0.25	0.50	342.0	15.0	292.2	2.0	0	0.00	75.	1003.	2	NAD-SFC	NoSubs
11	9	6	249	9	97.4	-9.000	-9.000	-9.000	261.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	294.8	2.0	0	0.00	65.	1003.	2	NAD-SFC	NoSubs
11	9	6	249	10	131.7	-9.000	-9.000	-9.000	381.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	297.1	2.0	0	0.00	55.	1002.	2	NAD-SFC	NoSubs
11	9	6	249	11	155.1	-9.000	-9.000	-9.000	612.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.0	2.0	0	0.00	51.	1002.	2	NAD-SFC	NoSubs
11	9	6	249	12	166.8	-9.000	-9.000	-9.000	729.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.8	2.0	0	0.00	46.	1001.	2	NAD-SFC	NoSubs
11	9	6	249	13	166.8	-9.000	-9.000	-9.000	813.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.4	2.0	0	0.00	41.	1000.	2	NAD-SFC	NoSubs
11	9	6	249	14	154.8	0.181	1.564	0.009	883.	185.	-3.4	0.2940	0.52	0.19	1.00	1.0	15.0	303.6	2.0	0	0.00	38.	1000.	2	NAD-SFC	NoSubs
11	9	6	249	15	131.0	0.229	1.511	0.009	939.	264.	-8.2	0.2940	0.52	0.20	1.50	6.0	15.0	304.2	2.0	0	0.00	37.	999.	2	NAD-SFC	NoSubs
11	9	6	249	16	96.2	0.325	1.382	0.009	978.	445.	-31.8	0.2940	0.52	0.21	2.60	22.0	15.0	304.2	2.0	0	0.00	39.	999.	2	NAD-SFC	NoSubs
11	9	6	249	17	52.3	0.263	1.138	0.008	1002.	326.	-31.0	0.2940	0.52	0.26	2.10	27.0	15.0	303.8	2.0	0	0.00	48.	999.	2	NAD-SFC	NoSubs
11	9	6	249	18	5.2	0.218	0.527	0.008	1003.	244.	-176.5	0.2470	0.52	0.42	2.10	34.0	15.0	302.9	2.0	0	0.00	50.	999.	2	NAD-SFC	NoSubs
11	9	6	249	19	1.9	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	301.5	2.0	0	0.00	54.	1000.	2	NAD-SFC	NoSubs
11	9	6	249	20	-1.4	0.079	-9.000	-9.000	-999.	53.	30.9	0.1950	0.52	1.00	0.50	224.0	15.0	299.8	2.0	0	0.00	61.	1000.	2	NAD-SFC	NoSubs
11	9	6	249	21	-3.3	0.093	-9.000	-9.000	-999.	68.	21.6	0.1750	0.52	1.00	1.00	245.0	15.0	298.5	2.0	0	0.00	66.	1000.	2	NAD-SFC	NoSubs
11	9	6	249	22	-3.5	0.096	-9.000	-9.000	-999.	72.	22.4	0.2160	0.52	1.00	1.00	291.0	15.0	297.4	2.0	0	0.00	70.	1000.	2	NAD-SFC	NoSubs
11	9	6	249	23	-7.9	0.137	-9.000	-9.000	-999.	121.	28.9	0.2720	0.52	1.00	1.50	305.0	15.0	296.2	2.0	0	0.00	72.	1000.	2	NAD-SFC	NoSubs
11	9	6	249	24	-3.9	0.100	-9.000	-9.000	-999.	76.	23.3	0.2720	0.52	1.00	1.00	324.0	15.0	295.6	2.0	0	0.00	73.	1001.	2	NAD-SFC	NoSubs

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11  9  7 250  1   -3.9  0.100 -9.000 -9.000 -999.   76.     23.3  0.2720  0.52  1.00  1.00  328.0  15.0  295.0  2.0   0   0.00   73.  1001.    2 NAD-SFC NoSubs
11  9  7 250  2   -7.9  0.137 -9.000 -9.000 -999.  122.     28.9  0.2720  0.52  1.00  1.50  307.0  15.0  294.5  2.0   0   0.00   74.  1002.    2 NAD-SFC NoSubs
11  9  7 250  3  -14.3  0.183 -9.000 -9.000 -999.  188.     38.3  0.2160  0.52  1.00  2.10  293.0  15.0  293.9  2.0   0   0.00   75.  1002.    2 NAD-SFC NoSubs
11  9  7 250  4  -15.9  0.195 -9.000 -9.000 -999.  207.     41.9  0.2720  0.52  1.00  2.10  302.0  15.0  293.2  2.0   0   0.00   78.  1002.    2 NAD-SFC NoSubs
11  9  7 250  5  -15.9  0.195 -9.000 -9.000 -999.  207.     41.9  0.2720  0.52  1.00  2.10  315.0  15.0  292.6  2.0   0   0.00   82.  1003.    2 NAD-SFC NoSubs
11  9  7 250  6   -8.0  0.137 -9.000 -9.000 -999.  122.     28.7  0.2720  0.52  1.00  1.50  324.0  15.0  292.0  2.0   0   0.00   86.  1003.    2 NAD-SFC NoSubs
11  9  7 250  7    6.3  0.124  0.211  0.013   53.  105.    -27.4  0.2720  0.52  0.39  1.00  313.0  15.0  292.0  2.0   0   0.00   87.  1004.    2 NAD-SFC NoSubs
11  9  7 250  8   53.9  0.102  0.610  0.012  151.   78.     -1.8  0.2720  0.52  0.25  0.50  313.0  15.0  293.8  2.0   0   0.00   79.  1004.    2 NAD-SFC NoSubs
11  9  7 250  9   97.3 -9.000 -9.000 -9.000  257. -999. -99999.0  0.2235  0.52  0.21  0.00    0.0  15.0  296.1  2.0   0   0.00   69.  1004.    2 NAD-SFC NoSubs
11  9  7 250 10  131.8 -9.000 -9.000 -9.000  383. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  298.9  2.0   0   0.00   57.  1003.    2 NAD-SFC NoSubs
11  9  7 250 11  155.3 -9.000 -9.000 -9.000  573. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  300.9  2.0   0   0.00   49.  1003.    2 NAD-SFC NoSubs
11  9  7 250 12  167.1 -9.000 -9.000 -9.000  704. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  302.8  2.0   0   0.00   43.  1002.    2 NAD-SFC NoSubs
11  9  7 250 13  167.0 -9.000 -9.000 -9.000  789. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  304.2  2.0   0   0.00   37.  1001.    2 NAD-SFC NoSubs
11  9  7 250 14  154.9  0.120  1.551  0.009  861.  100.     -1.0  0.2940  0.52  0.19  0.50    5.0  15.0  305.2  2.0   0   0.00   34.  1001.    2 NAD-SFC NoSubs
11  9  7 250 15  130.9  0.229  1.498  0.008  918.  264.     -8.2  0.2940  0.52  0.20  1.50   15.0  15.0  305.8  2.0   0   0.00   33.  1000.    2 NAD-SFC NoSubs
11  9  7 250 16   96.2  0.325  1.372  0.008  957.  445.    -31.8  0.2940  0.52  0.21  2.60   25.0  15.0  306.1  2.0   0   0.00   33.  1000.    2 NAD-SFC NoSubs
11  9  7 250 17   52.1  0.263  1.126  0.008  978.  326.    -31.2  0.2940  0.52  0.26  2.10   16.0  15.0  305.4  2.0   0   0.00   43.  1000.    2 NAD-SFC NoSubs
11  9  7 250 18    5.1  0.274  0.521  0.008  979.  344.   -357.9  0.2940  0.52  0.43  2.60   21.0  15.0  304.8  2.0   0   0.00   45.  1000.    2 NAD-SFC NoSubs
11  9  7 250 19   -0.7 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  303.4  2.0   0   0.00   48.  1001.    2 NAD-SFC NoSubs
11  9  7 250 20   -6.5  0.122 -9.000 -9.000 -999.  103.     25.2  0.1750  0.52  1.00  1.50  259.0  15.0  301.9  2.0   0   0.00   53.  1001.    2 NAD-SFC NoSubs
11  9  7 250 21  -43.2  0.420 -9.000 -9.000 -999.  653.    153.0  0.2160  0.52  1.00  4.60  276.0  15.0  300.0  2.0   0   0.00   59.  1001.    2 NAD-SFC NoSubs
11  9  7 250 22  -33.8  0.325 -9.000 -9.000 -999.  451.     91.1  0.2160  0.52  1.00  3.60  295.0  15.0  297.6  2.0   0   0.00   67.  1002.    2 NAD-SFC NoSubs
11  9  7 250 23  -29.0  0.278 -9.000 -9.000 -999.  353.     66.3  0.2160  0.52  1.00  3.10  298.0  15.0  296.8  2.0   0   0.00   67.  1002.    2 NAD-SFC NoSubs
11  9  7 250 24  -24.7  0.246 -9.000 -9.000 -999.  293.     54.0  0.2720  0.52  1.00  2.60  307.0  15.0  296.2  2.0   0   0.00   66.  1002.    2 NAD-SFC NoSubs
11  9  8 251  1  -24.7  0.246 -9.000 -9.000 -999.  293.     54.0  0.2720  0.52  1.00  2.60  319.0  15.0  295.8  2.0   0   0.00   66.  1003.    2 NAD-SFC NoSubs
11  9  8 251  2  -36.3  0.347 -9.000 -9.000 -999.  490.    102.6  0.2720  0.52  1.00  3.60  319.0  15.0  295.2  2.0   0   0.00   68.  1003.    2 NAD-SFC NoSubs
11  9  8 251  3  -36.4  0.347 -9.000 -9.000 -999.  490.    102.4  0.2720  0.52  1.00  3.60  316.0  15.0  294.5  2.0   0   0.00   74.  1003.    2 NAD-SFC NoSubs
11  9  8 251  4  -24.8  0.246 -9.000 -9.000 -999.  298.     53.7  0.2720  0.52  1.00  2.60  317.0  15.0  293.8  2.0   0   0.00   79.  1003.    2 NAD-SFC NoSubs
11  9  8 251  5  -15.9  0.195 -9.000 -9.000 -999.  208.     41.9  0.2720  0.52  1.00  2.10  320.0  15.0  293.4  2.0   0   0.00   81.  1004.    2 NAD-SFC NoSubs
11  9  8 251  6   -3.9  0.101 -9.000 -9.000 -999.   81.     23.3  0.2720  0.52  1.00  1.00  319.0  15.0  292.9  2.0   0   0.00   81.  1004.    2 NAD-SFC NoSubs
11  9  8 251  7    6.1 -9.000 -9.000 -9.000   92. -999. -99999.0  0.2235  0.52  0.39  0.00    0.0  15.0  293.0  2.0   0   0.00   81.  1005.    2 NAD-SFC NoSubs
11  9  8 251  8   53.6 -9.000 -9.000 -9.000  169. -999. -99999.0  0.2235  0.52  0.25  0.00    0.0  15.0  294.6  2.0   0   0.00   72.  1005.    2 NAD-SFC NoSubs
11  9  8 251  9   97.0 -9.000 -9.000 -9.000  274. -999. -99999.0  0.2235  0.52  0.21  0.00    0.0  15.0  296.8  2.0   0   0.00   62.  1005.    2 NAD-SFC NoSubs
11  9  8 251 10  131.1 -9.000 -9.000 -9.000  383. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  298.5  2.0   0   0.00   55.  1004.    2 NAD-SFC NoSubs
11  9  8 251 11  154.4 -9.000 -9.000 -9.000  538. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  300.2  2.0   0   0.00   50.  1004.    2 NAD-SFC NoSubs
11  9  8 251 12  166.0 -9.000 -9.000 -9.000  672. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.9  2.0   0   0.00   45.  1003.    2 NAD-SFC NoSubs
11  9  8 251 13  165.6  0.119  1.542  0.009  792.   98.     -1.0  0.2720  0.52  0.19  0.50  310.0  15.0  303.1  2.0   0   0.00   42.  1002.    2 NAD-SFC NoSubs
11  9  8 251 14  153.4  0.181  1.563  0.009  890.  185.     -3.4  0.2930  0.52  0.19  1.00  345.0  15.0  304.1  2.0   0   0.00   40.  1001.    2 NAD-SFC NoSubs
11  9  8 251 15  129.4  0.229  1.518  0.009  965.  263.     -8.3  0.2940  0.52  0.20  1.50    2.0  15.0  304.8  2.0   0   0.00   38.  1000.    2 NAD-SFC NoSubs
11  9  8 251 16   94.4  0.324  1.387  0.008 1009.  443.    -32.2  0.2940  0.52  0.21  2.60    9.0  15.0  304.8  2.0   0   0.00   39.  1000.    2 NAD-SFC NoSubs
11  9  8 251 17   50.3  0.308  1.133  0.008 1031.  411.    -52.0  0.2940  0.52  0.26  2.60   22.0  15.0  304.1  2.0   0   0.00   49.   999.    2 NAD-SFC NoSubs
11  9  8 251 18    3.3  0.320  0.459  0.008 1030.  435.   -876.9  0.2940  0.52  0.44  3.10   13.0  15.0  303.2  2.0   0   0.00   52.  1000.    2 NAD-SFC NoSubs
11  9  8 251 19  -16.2  0.200 -9.000 -9.000 -999.  223.     44.0  0.2930  0.52  1.00  2.10  357.0  15.0  302.1  2.0   0   0.00   54.  1000.    2 NAD-SFC NoSubs
11  9  8 251 20   -7.8  0.137 -9.000 -9.000 -999.  123.     29.2  0.2720  0.52  1.00  1.50  300.0  15.0  301.0  2.0   0   0.00   58.  1000.    2 NAD-SFC NoSubs
11  9  8 251 21  -26.5  0.264 -9.000 -9.000 -999.  325.     61.8  0.1750  0.52  1.00  3.10  269.0  15.0  299.6  2.0   0   0.00   61.  1001.    3 NAD-SFC NoSubs
11  9  8 251 22  -26.6  0.264 -9.000 -9.000 -999.  325.     61.5  0.1750  0.52  1.00  3.10  265.0  15.0  298.2  2.0   0   0.00   64.  1001.    3 NAD-SFC NoSubs
11  9  8 251 23  -28.2  0.278 -9.000 -9.000 -999.  352.     68.4  0.2160  0.52  1.00  3.10  292.0  15.0  297.5  2.0   0   0.00   65.  1002.    3 NAD-SFC NoSubs
11  9  8 251 24  -30.9  0.297 -9.000 -9.000 -999.  388.     75.4  0.2720  0.52  1.00  3.10  325.0  15.0  296.8  2.0   0   0.00   68.  1001.    2 NAD-SFC NoSubs
11  9  9 252  1  -30.9  0.297 -9.000 -9.000 -999.  388.     75.3  0.2720  0.52  1.00  3.10  329.0  15.0  296.1  2.0   0   0.00   71.  1001.    2 NAD-SFC NoSubs
11  9  9 252  2  -15.8  0.195 -9.000 -9.000 -999.  212.     42.1  0.2720  0.52  1.00  2.10  329.0  15.0  295.2  2.0   0   0.00   74.  1001.    2 NAD-SFC NoSubs
11  9  9 252  3   -8.2  0.140 -9.000 -9.000 -999.  126.     29.7  0.2930  0.52  1.00  1.50  348.0  15.0  294.6  2.0   0   0.00   75.  1001.    2 NAD-SFC NoSubs
11  9  9 252  4   -1.6  0.084 -9.000 -9.000 -999.   59.     31.9  0.2940  0.52  1.00  0.50   17.0  15.0  294.0  2.0   0   0.00   77.  1001.    2 NAD-SFC NoSubs
11  9  9 252  5   -1.6  0.082 -9.000 -9.000 -999.   56.     31.6  0.2470  0.52  1.00  0.50   54.0  15.0  293.5  2.0   0   0.00   79.  1001.    2 NAD-SFC NoSubs
11  9  9 252  6   -1.5  0.080 -9.000 -9.000 -999.   55.     31.3  0.2090  0.52  1.00  0.50   78.0  15.0  293.0  2.0   0   0.00   81.  1001.    2 NAD-SFC NoSubs
11  9  9 252  7    5.5 -9.000 -9.000 -9.000   54. -999. -99999.0  0.2235  0.52  0.40  0.00    0.0  15.0  293.0  2.0   0   0.00   82.  1001.    2 NAD-SFC NoSubs
11  9  9 252  8   53.2 -9.000 -9.000 -9.000  221. -999. -99999.0  0.2235  0.52  0.25  0.00    0.0  15.0  295.0  2.0   0   0.00   69.  1001.    2 NAD-SFC NoSubs
11  9  9 252  9   96.4 -9.000 -9.000 -9.000  353. -999. -99999.0  0.2235  0.52  0.21  0.00    0.0  15.0  296.8  2.0   0   0.00   62.  1001.    2 NAD-SFC NoSubs
11  9  9 252 10  130.4 -9.000 -9.000 -9.000  506. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0  298.2  2.0   0   0.00   57.  1000.    2 NAD-SFC NoSubs
11  9  9 252 11  153.6 -9.000 -9.000 -9.000  652. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  299.9  2.0   0   0.00   51.   999.    2 NAD-SFC NoSubs
11  9  9 252 12  165.0 -9.000 -9.000 -9.000  808. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  301.4  2.0   0   0.00   47.   998.    2 NAD-SFC NoSubs
11  9  9 252 13  164.7  0.121  1.633  0.009  941.  101.     -1.0  0.2930  0.52  0.19  0.50  335.0  15.0  302.8  2.0   0   0.00   43.   996.    2 NAD-SFC NoSubs
11  9  9 252 14  152.3 -9.000 -9.000 -9.000 1023. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0  303.8  2.0   0   0.00   40.   995.    2 NAD-SFC NoSubs
11  9  9 252 15  128.1  0.287  1.573  0.009 1079.  369.    -16.4  0.2940  0.52  0.20  2.10   14.0  15.0  304.1  2.0   0   0.00   39.   995.    2 NAD-SFC NoSubs
11  9  9 252 16   93.1  0.324  1.431  0.009 1118.  443.    -32.4  0.2940  0.52  0.21  2.60   25.0  15.0  304.2  2.0   0   0.00   40.   994.    2 NAD-SFC NoSubs
11  9  9 252 17   49.0  0.206  1.163  0.009 1137.  232.    -15.8  0.2940  0.52  0.27  1.50   11.0  15.0  303.9  2.0   0   0.00   46.   994.    2 NAD-SFC NoSubs
11  9  9 252 18    2.3 -9.000 -9.000 -9.000 1137. -999. -99999.0  0.2235  0.52  0.44  0.00    0.0  15.0  303.2  2.0   0   0.00   48.   994.    2 NAD-SFC NoSubs
11  9  9 252 19   -3.9  0.101 -9.000 -9.000 -999.   77.     23.7  0.2940  0.52  1.00  1.00   19.0  15.0  301.8  2.0   0   0.00   53.   994.    2 NAD-SFC NoSubs
11  9  9 252 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  300.2  2.0   0   0.00   59.   995.    2 NAD-SFC NoSubs
11  9  9 252 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00  0.00    0.0  15.0  299.0  2.0   0   0.00   65.   995.    2 NAD-SFC NoSubs
11  9  9 252 22   -1.5  0.080 -9.000 -9.000 -999.   55.     31.2  0.2160  0.52  1.00  0.50  289.0  15.0  297.9  2.0   0   0.00   69.   996.    2 NAD-SFC NoSubs
11  9  9 252 23   -1.4  0.079 -9.000 -9.000 -999.   54.     31.0  0.1950  0.52  1.00  0.50  233.0  15.0  296.9  2.0   0   0.00   73.   996.    2 NAD-SFC NoSubs
11  9  9 252 24   -3.4  0.095 -9.000 -9.000 -999.   70.     22.0  0.1950  0.52  1.00  1.00  230.0  15.0  296.2  2.0   0   0.00   75.   996.    2 NAD-SFC NoSubs
11  9 10 253  1  -12.9  0.173 -9.000 -9.000 -999.  173.     35.6  0.1750  0.52  1.00  2.10  245.0  15.0  295.8  2.0   0   0.00   74.   997.    2 NAD-SFC NoSubs
11  9 10 253  2  -27.4  0.263 -9.000 -9.000 -999.  324.     59.1  0.1750  0.52  1.00  3.10  249.0  15.0  295.1  2.0   0   0.00   73.   997.    2 NAD-SFC NoSubs
11  9 10 253  3  -27.5  0.263 -9.000 -9.000 -999.  324.     59.0  0.1750  0.52  1.00  3.10  259.0  15.0  294.6  2.0   0   0.00   73.   997.    2 NAD-SFC NoSubs
11  9 10 253  4  -22.1  0.231 -9.000 -9.000 -999.  266.     49.2  0.2160  0.52  1.00  2.60  270.0  15.0  294.4  2.0   0   0.00   72.   997.    2 NAD-SFC NoSubs
11  9 10 253  5  -13.0  0.173 -9.000 -9.000 -999.  174.     35.5  0.1750  0.52  1.00  2.10  260.0  15.0  294.2  2.0   0   0.00   70.   997.    2 NAD-SFC NoSubs
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11	9	10	253	6	-6.6	0.122	-9.000	-9.000	-999.	103.	24.9	0.1750	0.52	1.00	1.50	255.0	15.0	294.0	2.0	0	0.00	71.	998.	2	NAD-SFC	NoSubs
11	9	10	253	7	5.3	0.112	0.164	0.009	29.	90.	-23.4	0.1750	0.52	0.40	1.00	246.0	15.0	293.9	2.0	0	0.00	71.	998.	2	NAD-SFC	NoSubs
11	9	10	253	8	53.2	0.142	0.574	0.008	126.	129.	-4.8	0.1750	0.52	0.25	1.00	255.0	15.0	296.6	2.0	0	0.00	56.	998.	2	NAD-SFC	NoSubs
11	9	10	253	9	96.8	-9.000	-9.000	-9.000	315.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	299.2	2.0	0	0.00	42.	998.	2	NAD-SFC	NoSubs
11	9	10	253	10	131.1	0.109	1.253	0.005	535.	86.	-1.0	0.2130	0.52	0.20	0.50	97.0	15.0	301.2	2.0	0	0.00	35.	998.	2	NAD-SFC	NoSubs
11	9	10	253	11	154.5	0.115	1.467	0.005	728.	94.	-1.0	0.2470	0.52	0.19	0.50	57.0	15.0	303.2	2.0	0	0.00	31.	998.	2	NAD-SFC	NoSubs
11	9	10	253	12	166.2	0.121	1.605	0.005	887.	101.	-1.0	0.2930	0.52	0.19	0.50	348.0	15.0	305.0	2.0	0	0.00	27.	997.	2	NAD-SFC	NoSubs
11	9	10	253	13	165.7	0.111	1.698	0.005	1051.	88.	-1.0	0.1950	0.52	0.19	0.50	211.0	15.0	306.2	2.0	0	0.00	24.	996.	2	NAD-SFC	NoSubs
11	9	10	253	14	153.1	0.165	1.738	0.005	1220.	161.	-2.6	0.1900	0.52	0.19	1.00	186.0	15.0	306.8	2.0	0	0.00	24.	996.	2	NAD-SFC	NoSubs
11	9	10	253	15	128.5	0.229	1.694	0.005	1345.	263.	-8.3	0.2940	0.52	0.20	1.50	16.0	15.0	306.6	2.0	0	0.00	26.	996.	2	NAD-SFC	NoSubs
11	9	10	253	16	92.5	0.508	1.555	0.005	1447.	870.	-126.1	0.2940	0.52	0.21	4.60	8.0	15.0	305.2	2.0	0	0.00	36.	996.	2	NAD-SFC	NoSubs
11	9	10	253	17	47.5	-9.000	-9.000	-9.000	1490.	-999.	-99999.0	0.2235	0.52	0.27	0.00	0.0	15.0	303.2	2.0	0	0.00	51.	996.	2	NAD-SFC	NoSubs
11	9	10	253	18	0.8	0.418	0.324	0.005	1486.	648.	-7977.3	0.2940	0.52	0.45	4.10	16.0	15.0	302.1	2.0	0	0.00	54.	996.	2	NAD-SFC	NoSubs
11	9	10	253	19	-3.5	0.096	-9.000	-9.000	-999.	270.	22.4	0.2160	0.52	1.00	1.00	293.0	15.0	301.5	2.0	0	0.00	54.	996.	2	NAD-SFC	NoSubs
11	9	10	253	20	-51.4	0.497	-9.000	-9.000	-999.	842.	212.8	0.1750	0.52	1.00	5.70	268.0	15.0	297.5	2.0	0	0.00	65.	997.	2	NAD-SFC	NoSubs
11	9	10	253	21	-33.9	0.325	-9.000	-9.000	-999.	470.	90.5	0.2160	0.52	1.00	3.60	285.0	15.0	295.8	2.0	0	0.00	69.	998.	2	NAD-SFC	NoSubs
11	9	10	253	22	-24.6	0.246	-9.000	-9.000	-999.	297.	53.9	0.2720	0.52	1.00	2.60	304.0	15.0	295.0	2.0	0	0.00	71.	998.	2	NAD-SFC	NoSubs
11	9	10	253	23	-16.2	0.200	-9.000	-9.000	-999.	215.	44.0	0.2930	0.52	1.00	2.10	340.0	15.0	294.6	2.0	0	0.00	72.	999.	3	NAD-SFC	NoSubs
11	9	10	253	24	-31.0	0.303	-9.000	-9.000	-999.	401.	80.2	0.2930	0.52	1.00	3.10	339.0	15.0	294.1	2.0	0	0.00	73.	999.	3	NAD-SFC	NoSubs
11	9	11	254	1	-36.3	0.355	-9.000	-9.000	-999.	507.	109.5	0.2930	0.52	1.00	3.60	349.0	15.0	293.5	2.0	0	0.00	75.	1000.	3	NAD-SFC	NoSubs
11	9	11	254	2	-36.4	0.355	-9.000	-9.000	-999.	507.	109.1	0.2930	0.52	1.00	3.60	358.0	15.0	292.8	2.0	0	0.00	78.	1000.	3	NAD-SFC	NoSubs
11	9	11	254	3	-31.2	0.303	-9.000	-9.000	-999.	402.	79.7	0.2930	0.52	1.00	3.10	359.0	15.0	292.1	2.0	0	0.00	80.	1001.	3	NAD-SFC	NoSubs
11	9	11	254	4	-31.3	0.304	-9.000	-9.000	-999.	401.	79.7	0.2940	0.52	1.00	3.10	13.0	15.0	291.8	2.0	0	0.00	82.	1001.	3	NAD-SFC	NoSubs
11	9	11	254	5	-25.5	0.252	-9.000	-9.000	-999.	305.	56.0	0.2940	0.52	1.00	2.60	25.0	15.0	291.2	2.0	0	0.00	83.	1001.	3	NAD-SFC	NoSubs
11	9	11	254	6	-16.4	0.200	-9.000	-9.000	-999.	216.	43.7	0.2940	0.52	1.00	2.10	24.0	15.0	291.1	2.0	0	0.00	82.	1002.	3	NAD-SFC	NoSubs
11	9	11	254	7	5.5	0.171	0.196	0.010	49.	169.	-81.2	0.2930	0.52	0.40	1.50	359.0	15.0	291.6	2.0	0	0.00	78.	1003.	3	NAD-SFC	NoSubs
11	9	11	254	8	52.5	0.204	0.606	0.008	151.	221.	-14.4	0.2720	0.52	0.25	1.50	318.0	15.0	293.5	2.0	0	0.00	67.	1003.	3	NAD-SFC	NoSubs
11	9	11	254	9	95.4	0.170	0.895	0.007	269.	169.	-4.6	0.2930	0.52	0.21	1.00	333.0	15.0	295.8	2.0	0	0.00	59.	1003.	3	NAD-SFC	NoSubs
11	9	11	254	10	129.4	-9.000	-9.000	-9.000	411.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	298.1	2.0	0	0.00	51.	1003.	3	NAD-SFC	NoSubs
11	9	11	254	11	152.2	-9.000	-9.000	-9.000	623.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.8	2.0	0	0.00	46.	1003.	3	NAD-SFC	NoSubs
11	9	11	254	12	163.5	0.119	1.573	0.005	852.	98.	-1.0	0.2720	0.52	0.19	0.50	315.0	15.0	301.2	2.0	0	0.00	42.	1002.	3	NAD-SFC	NoSubs
11	9	11	254	13	162.8	0.119	1.695	0.005	1069.	98.	-1.0	0.2720	0.52	0.19	0.50	306.0	15.0	302.2	2.0	0	0.00	38.	1001.	3	NAD-SFC	NoSubs
11	9	11	254	14	150.3	0.233	1.746	0.005	1268.	270.	-7.5	0.2930	0.52	0.19	1.50	336.0	15.0	302.9	2.0	0	0.00	36.	1001.	3	NAD-SFC	NoSubs
11	9	11	254	15	126.0	0.333	1.702	0.005	1399.	461.	-26.1	0.2940	0.52	0.20	2.60	3.0	15.0	303.1	2.0	0	0.00	37.	1000.	3	NAD-SFC	NoSubs
11	9	11	254	16	90.2	0.415	1.550	0.005	1475.	641.	-70.6	0.2940	0.52	0.21	3.60	13.0	15.0	302.8	2.0	0	0.00	40.	1000.	2	NAD-SFC	NoSubs
11	9	11	254	17	45.7	0.352	1.246	0.005	1510.	504.	-85.1	0.2940	0.52	0.27	3.10	12.0	15.0	301.9	2.0	0	0.00	53.	1000.	2	NAD-SFC	NoSubs
11	9	11	254	18	0.8	0.367	0.319	0.005	1506.	533.	-5740.9	0.2930	0.52	0.46	3.60	339.0	15.0	300.9	2.0	0	0.00	57.	1001.	3	NAD-SFC	NoSubs
11	9	11	254	19	-47.2	0.468	-9.000	-9.000	-999.	768.	194.0	0.2160	0.52	1.00	5.10	283.0	15.0	298.8	2.0	0	0.00	62.	1002.	3	NAD-SFC	NoSubs
11	9	11	254	20	-40.7	0.398	-9.000	-9.000	-999.	607.	138.7	0.1750	0.52	1.00	4.60	266.0	15.0	295.1	2.0	0	0.00	68.	1003.	3	NAD-SFC	NoSubs
11	9	11	254	21	-43.1	0.420	-9.000	-9.000	-999.	653.	153.8	0.2160	0.52	1.00	4.60	272.0	15.0	293.8	2.0	0	0.00	72.	1003.	3	NAD-SFC	NoSubs
11	9	11	254	22	-31.8	0.308	-9.000	-9.000	-999.	419.	82.5	0.1750	0.52	1.00	3.60	268.0	15.0	292.8	2.0	0	0.00	75.	1004.	3	NAD-SFC	NoSubs
11	9	11	254	23	-7.9	0.137	-9.000	-9.000	-999.	150.	29.1	0.2720	0.52	1.00	1.50	301.0	15.0	292.2	2.0	0	0.00	76.	1005.	3	NAD-SFC	NoSubs
11	9	11	254	24	-8.2	0.140	-9.000	-9.000	-999.	126.	30.0	0.2940	0.52	1.00	1.50	15.0	15.0	292.0	2.0	0	0.00	77.	1006.	3	NAD-SFC	NoSubs
11	9	12	255	1	-8.1	0.140	-9.000	-9.000	-999.	126.	30.5	0.2940	0.52	1.00	1.50	10.0	15.0	291.6	2.0	0	0.00	79.	1006.	4	NAD-SFC	NoSubs
11	9	12	255	2	-8.1	0.140	-9.000	-9.000	-999.	125.	30.4	0.2930	0.52	1.00	1.50	355.0	15.0	291.0	2.0	0	0.00	80.	1007.	4	NAD-SFC	NoSubs
11	9	12	255	3	-3.9	0.100	-9.000	-9.000	-999.	76.	23.3	0.2720	0.52	1.00	1.00	313.0	15.0	290.6	2.0	0	0.00	81.	1007.	3	NAD-SFC	NoSubs
11	9	12	255	4	-3.6	0.096	-9.000	-9.000	-999.	72.	22.4	0.2160	0.52	1.00	1.00	286.0	15.0	290.2	2.0	0	0.00	81.	1007.	3	NAD-SFC	NoSubs
11	9	12	255	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	290.2	2.0	0	0.00	80.	1007.	3	NAD-SFC	NoSubs
11	9	12	255	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	289.9	2.0	0	0.00	81.	1008.	3	NAD-SFC	NoSubs
11	9	12	255	7	4.6	-9.000	-9.000	-9.000	58.	-999.	-99999.0	0.2235	0.52	0.40	0.00	0.0	15.0	290.2	2.0	0	0.00	79.	1008.	3	NAD-SFC	NoSubs
11	9	12	255	8	51.5	-9.000	-9.000	-9.000	186.	-999.	-99999.0	0.2235	0.52	0.25	0.00	0.0	15.0	292.2	2.0	0	0.00	69.	1008.	3	NAD-SFC	NoSubs
11	9	12	255	9	94.3	-9.000	-9.000	-9.000	331.	-999.	-99999.0	0.2235	0.52	0.21	0.00	0.0	15.0	294.1	2.0	0	0.00	63.	1008.	3	NAD-SFC	NoSubs
11	9	12	255	10	127.6	-9.000	-9.000	-9.000	538.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	295.9	2.0	0	0.00	58.	1008.	2	NAD-SFC	NoSubs
11	9	12	255	11	150.6	-9.000	-9.000	-9.000	728.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	297.8	2.0	0	0.00	51.	1007.	2	NAD-SFC	NoSubs
11	9	12	255	12	161.9	-9.000	-9.000	-9.000	866.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	299.2	2.0	0	0.00	46.	1006.	2	NAD-SFC	NoSubs
11	9	12	255	13	161.2	0.118	1.642	0.007	986.	98.	-1.0	0.2720	0.52	0.19	0.50	303.0	15.0	300.5	2.0	0	0.00	42.	1005.	2	NAD-SFC	NoSubs
11	9	12	255	14	148.5	0.117	1.652	0.007	1089.	96.	-1.0	0.2720	0.52	0.19	0.50	308.0	15.0	301.4	2.0	0	0.00	39.	1005.	2	NAD-SFC	NoSubs
11	9	12	255	15	124.1	0.176	1.593	0.007	1169.	178.	-4.0	0.2930	0.52	0.20	1.00	343.0	15.0	302.0	2.0	0	0.00	37.	1004.	2	NAD-SFC	NoSubs
11	9	12	255	16	88.8	-9.000	-9.000	-9.000	1222.	-999.	-99999.0	0.2235	0.52	0.22	0.00	0.0	15.0	302.1	2.0	0	0.00	34.	1004.	2	NAD-SFC	NoSubs
11	9	12	255	17	44.3	0.305	1.155	0.008	1246.	405.	-57.5	0.2940	0.52	0.27	2.60	24.0	15.0	301.5	2.0	0	0.00	44.	1004.	2	NAD-SFC	NoSubs
11	9	12	255	18	-5.5	0.369	-9.000	-9.000	-999.	538.	821.4	0.2940	0.52	0.47	3.60	24.0	15.0	300.4	2.0	0	0.00	50.	1004.	2	NAD-SFC	NoSubs
11	9	12	255	19	-29.9	0.289	-9.000	-9.000	-999.	376.	72.0	0.2470	0.52	1.00	3.10	33.0	15.0	299.2	2.0	0	0.00	53.	1005.	2	NAD-SFC	NoSubs
11	9	12	255	20	-3.6	0.096	-9.000	-9.000	-999.	120.	22.4	0.2160	0.52	1.00	1.00	288.0	15.0	298.0	2.0	0	0.00	57.	1005.	2	NAD-SFC	NoSubs
11	9	12	255	21	-41.8	0.398	-9.000	-9.000	-999.	602.	135.3	0.1750	0.52	1.00	4.60	269.0	15.0	295.6	2.0	0	0.00	66.	1006.	2	NAD-SFC	NoSubs
11	9	12	255	22	-34.4	0.325	-9.000	-9.000	-999.	448.	89.8	0.2160	0.52	1.00	3.60	270.0	15.0	293.5	2.0	0	0.00	73.	1006.	2	NAD-SFC	NoSubs
11	9	12	255	23	-20.5	0.218	-9.000	-9.000	-999.	251.	45.5	0.1750	0.52	1.00	2.60	269.0	15.0	292.9	2.0	0	0.00	73.	1006.	2	NAD-SFC	NoSubs
11	9	12	255	24	-1.4	0.079	-9.000	-9.000	-999.	74.	30.9	0.1750	0.52	1.00	0.50	267.0	15.0	292.8	2.0	0	0.00	73.	1006.	2	NAD-SFC	NoSubs
11	9	13	256	1	-1.5	0.080	-9.000	-9.000	-999.	54.	31.1	0.1950	0.52	1.00	0.50	220.0	15.0	292.6	2.0	0	0.00	73.	1006.	2	NAD-SFC	NoSubs
11	9	13	256	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	292.2	2.0	0	0.00	74.	1006.	2	NAD-SFC	NoSubs
11	9	13	256	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	291.6	2.0	0	0.00	78.	1006.	2	NAD-SFC	NoSubs
11	9	13	256	4	-1.5	0.080	-9.000	-9.000	-999.	54.	31.1	0.1900	0.52	1.00	0.50	187.0	15.0	291.0	2.0	0	0.00	81.	1005.	2	NAD-SFC	NoSubs
11	9	13	256	5	-1.5	0.080	-9.000	-9.000	-999.	54.	31.2	0.1900	0.52	1.00	0.50	190.0	15.0	290.5	2.0	0	0.00	83.	1005.	2	NAD-SFC	NoSubs
11	9	13	256	6	-1.5	0.080	-9.000	-9.000	-999.	54.	31.2	0.1950	0.52	1.00	0.50	227.0	15.0	290.1	2.0	0	0.00	85.	1006.	2	NAD-SFC	NoSubs
11	9	13	256	7	2.6	0.067	0.114	0.012	20.	41.	-10.3	0.2160	0.52	0.41	0.50	285.0	15.0	290.1	2.0	0	0.00	85.	1006.	2	NAD-SFC	NoSubs
11	9	13	256	8	50.0	0.155	0.594	0.009	150.	146.	-6.7	0.2720	0.52	0.26	1.00	301.0	15.0	292.8	2.0	0	0.00	76.	1007.	2	NAD-SFC	NoSubs
11	9	13	256	9	93.3	0.159	0.911	0.007	291.	152.	-3.9	0.2160	0.52	0.21	1.00	286.0	15.0	294.8	2.0	0	0.00	71.	1007.	2	NAD-SFC	NoSubs
11	9	13	256	10	127.5	0.165	1.180	0.006	463.	161.	-3.2	0.2160	0.52	0.20	1.00	294.0	15.0	297.2	2.0	0	0.00	60.	1006.	2	NAD-SFC	NoSubs

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11  9 13 256 11  150.6 -9.000 -9.000 -9.000  677. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 299.2  2.0   0  0.00   51.  1006.    2 NAD-SFC NoSubs
11  9 13 256 12  161.9 -9.000 -9.000 -9.000  815. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 300.9  2.0   0  0.00   43.  1005.    2 NAD-SFC NoSubs
11  9 13 256 13  161.2  0.120  1.613  0.007  934.  100.     -1.0  0.2930  0.52  0.19  0.50  335.0  15.0 302.1  2.0   0  0.00   39.  1004.    2 NAD-SFC NoSubs
11  9 13 256 14  148.4  0.180  1.618  0.007 1023.  184.     -3.5  0.2930  0.52  0.19  1.00  354.0  15.0 302.9  2.0   0  0.00   37.  1003.    2 NAD-SFC NoSubs
11  9 13 256 15  123.8  0.228  1.555  0.006 1089.  261.     -8.5  0.2940  0.52  0.20  1.50   10.0  15.0 303.4  2.0   0  0.00   37.  1003.    2 NAD-SFC NoSubs
11  9 13 256 16   88.3  0.322  1.409  0.006 1133.  439.    -33.9  0.2940  0.52  0.22  2.60   21.0  15.0 303.4  2.0   0  0.00   39.  1002.    2 NAD-SFC NoSubs
11  9 13 256 17   43.9  0.259  1.123  0.006 1153.  318.    -35.5  0.2940  0.52  0.27  2.10   29.0  15.0 303.0  2.0   0  0.00   49.  1002.    2 NAD-SFC NoSubs
11  9 13 256 18   -5.1  0.316 -9.000 -9.000 -999.  426.    547.4  0.2940  0.52  0.48  3.10   23.0  15.0 302.2  2.0   0  0.00   52.  1002.    2 NAD-SFC NoSubs
11  9 13 256 19   -3.9  0.101 -9.000 -9.000 -999.  140.     23.7  0.2940  0.52  1.00  1.00   19.0  15.0 300.9  2.0   0  0.00   55.  1003.    2 NAD-SFC NoSubs
11  9 13 256 20  -36.5  0.353 -9.000 -9.000 -999.  503.    107.8  0.1750  0.52  1.00  4.10  244.0  15.0 299.2  2.0   0  0.00   60.  1003.    2 NAD-SFC NoSubs
11  9 13 256 21  -46.3  0.443 -9.000 -9.000 -999.  707.    167.8  0.1750  0.52  1.00  5.10  266.0  15.0 295.9  2.0   0  0.00   73.  1003.    2 NAD-SFC NoSubs
11  9 13 256 22  -41.8  0.398 -9.000 -9.000 -999.  604.    134.7  0.1750  0.52  1.00  4.60  268.0  15.0 294.5  2.0   0  0.00   76.  1003.    2 NAD-SFC NoSubs
11  9 13 256 23  -29.3  0.278 -9.000 -9.000 -999.  361.     65.7  0.2160  0.52  1.00  3.10  274.0  15.0 293.9  2.0   0  0.00   78.  1003.    2 NAD-SFC NoSubs
11  9 13 256 24   -3.4  0.093 -9.000 -9.000 -999.  114.     21.7  0.1750  0.52  1.00  1.00  247.0  15.0 293.6  2.0   0  0.00   79.  1003.    2 NAD-SFC NoSubs
11  9 14 257  1   -3.4  0.094 -9.000 -9.000 -999.   70.     22.0  0.1970  0.52  1.00  1.00  146.0  15.0 293.6  2.0   0  0.00   79.  1004.    3 NAD-SFC NoSubs
11  9 14 257  2   -6.6  0.123 -9.000 -9.000 -999.  104.     25.4  0.1810  0.52  1.00  1.50  170.0  15.0 293.5  2.0   0  0.00   79.  1004.    3 NAD-SFC NoSubs
11  9 14 257  3   -3.4  0.094 -9.000 -9.000 -999.   69.     21.9  0.1900  0.52  1.00  1.00  200.0  15.0 293.1  2.0   0  0.00   81.  1004.    3 NAD-SFC NoSubs
11  9 14 257  4   -6.5  0.122 -9.000 -9.000 -999.  103.     25.1  0.1750  0.52  1.00  1.50  257.0  15.0 292.8  2.0   0  0.00   84.  1004.    3 NAD-SFC NoSubs
11  9 14 257  5   -7.1  0.129 -9.000 -9.000 -999.  111.     26.8  0.2160  0.52  1.00  1.50  270.0  15.0 292.2  2.0   0  0.00   88.  1004.    3 NAD-SFC NoSubs
11  9 14 257  6   -7.1  0.129 -9.000 -9.000 -999.  111.     26.8  0.2160  0.52  1.00  1.50  271.0  15.0 291.8  2.0   0  0.00   91.  1004.    3 NAD-SFC NoSubs
11  9 14 257  7    3.9  0.156  0.168  0.010   43.  148.    -87.6  0.2160  0.52  0.41  1.50  270.0  15.0 291.6  2.0   0  0.00   92.  1004.    3 NAD-SFC NoSubs
11  9 14 257  8   50.7  0.155  0.686  0.010  228.  147.     -6.6  0.2720  0.52  0.26  1.00  325.0  15.0 293.5  2.0   0  0.00   85.  1004.    3 NAD-SFC NoSubs
11  9 14 257  9   93.4 -9.000 -9.000 -9.000  344. -999. -99999.0  0.2235  0.52  0.21  0.00    0.0  15.0 295.2  2.0   0  0.00   75.  1004.    3 NAD-SFC NoSubs
11  9 14 257 10  126.9  0.104  1.186  0.007  471.   80.     -1.0  0.1750  0.52  0.20  0.50  251.0  15.0 296.8  2.0   0  0.00   68.  1004.    3 NAD-SFC NoSubs
11  9 14 257 11  149.6  0.106  1.355  0.005  596.   83.     -1.0  0.1750  0.52  0.19  0.50  248.0  15.0 298.6  2.0   0  0.00   60.  1003.    2 NAD-SFC NoSubs
11  9 14 257 12  160.8 -9.000 -9.000 -9.000  750. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 300.1  2.0   0  0.00   53.  1002.    2 NAD-SFC NoSubs
11  9 14 257 13  160.1 -9.000 -9.000 -9.000  921. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 301.6  2.0   0  0.00   47.  1001.    2 NAD-SFC NoSubs
11  9 14 257 14  147.2  0.119  1.646  0.005 1082.   99.     -1.0  0.2930  0.52  0.19  0.50  347.0  15.0 302.5  2.0   0  0.00   42.  1000.    2 NAD-SFC NoSubs
11  9 14 257 15  122.5  0.176  1.608  0.005 1211.  178.     -4.0  0.2940  0.52  0.20  1.00   11.0  15.0 302.9  2.0   0  0.00   40.   999.    2 NAD-SFC NoSubs
11  9 14 257 16   87.0  0.276  1.467  0.005 1294.  348.    -21.6  0.2940  0.52  0.22  2.10   19.0  15.0 303.0  2.0   0  0.00   40.   999.    2 NAD-SFC NoSubs
11  9 14 257 17   42.5  0.259  1.166  0.005 1332.  316.    -36.2  0.2940  0.52  0.28  2.10   21.0  15.0 302.6  2.0   0  0.00   49.   999.    2 NAD-SFC NoSubs
11  9 14 257 18   -7.6  0.313 -9.000 -9.000 -999.  420.    361.1  0.2940  0.52  0.48  3.10   19.0  15.0 301.8  2.0   0  0.00   51.   999.    2 NAD-SFC NoSubs
11  9 14 257 19   -8.1  0.140 -9.000 -9.000 -999.  152.     30.0  0.2930  0.52  1.00  1.50  356.0  15.0 300.4  2.0   0  0.00   55.   999.    2 NAD-SFC NoSubs
11  9 14 257 20  -28.7  0.278 -9.000 -9.000 -999.  352.     66.9  0.2160  0.52  1.00  3.10  275.0  15.0 299.1  2.0   0  0.00   60.   999.    2 NAD-SFC NoSubs
11  9 14 257 21  -41.4  0.398 -9.000 -9.000 -999.  602.    135.5  0.1750  0.52  1.00  4.60  267.0  15.0 296.1  2.0   0  0.00   73.  1000.    2 NAD-SFC NoSubs
11  9 14 257 22  -39.0  0.373 -9.000 -9.000 -999.  546.    118.1  0.2160  0.52  1.00  4.10  270.0  15.0 294.4  2.0   0  0.00   79.  1000.    2 NAD-SFC NoSubs
11  9 14 257 23  -22.2  0.231 -9.000 -9.000 -999.  279.     49.2  0.2160  0.52  1.00  2.60  282.0  15.0 293.9  2.0   0  0.00   79.  1000.    2 NAD-SFC NoSubs
11  9 14 257 24   -7.2  0.129 -9.000 -9.000 -999.  117.     26.6  0.2160  0.52  1.00  1.50  280.0  15.0 293.6  2.0   0  0.00   80.  1000.    2 NAD-SFC NoSubs
11  9 15 258  1   -3.5  0.095 -9.000 -9.000 -999.   70.     22.0  0.1950  0.52  1.00  1.00  224.0  15.0 293.2  2.0   0  0.00   81.  1000.    2 NAD-SFC NoSubs
11  9 15 258  2   -3.4  0.093 -9.000 -9.000 -999.   69.     21.7  0.1750  0.52  1.00  1.00  242.0  15.0 292.9  2.0   0  0.00   82.  1001.    2 NAD-SFC NoSubs
11  9 15 258  3   -7.2  0.129 -9.000 -9.000 -999.  111.     26.5  0.2160  0.52  1.00  1.50  281.0  15.0 292.5  2.0   0  0.00   84.  1001.    2 NAD-SFC NoSubs
11  9 15 258  4  -29.4  0.278 -9.000 -9.000 -999.  352.     65.2  0.2160  0.52  1.00  3.10  296.0  15.0 291.9  2.0   0  0.00   87.  1001.    2 NAD-SFC NoSubs
11  9 15 258  5  -31.4  0.296 -9.000 -9.000 -999.  387.     74.0  0.2720  0.52  1.00  3.10  307.0  15.0 291.2  2.0   0  0.00   93.  1001.    2 NAD-SFC NoSubs
11  9 15 258  6  -31.5  0.296 -9.000 -9.000 -999.  387.     73.8  0.2720  0.52  1.00  3.10  311.0  15.0 290.8  2.0   0  0.00   96.  1001.    2 NAD-SFC NoSubs
11  9 15 258  7    1.7  0.263  0.124  0.008   41.  324.   -970.8  0.2720  0.52  0.41  2.60  316.0  15.0 290.8  2.0   0  0.00   96.  1002.    2 NAD-SFC NoSubs
11  9 15 258  8   48.5  0.205  0.644  0.010  196.  224.    -16.0  0.2930  0.52  0.26  1.50  341.0  15.0 291.8  2.0   0  0.00   90.  1002.    2 NAD-SFC NoSubs
11  9 15 258  9   91.8 -9.000 -9.000 -9.000  310. -999. -99999.0  0.2235  0.52  0.21  0.00    0.0  15.0 294.0  2.0   0  0.00   80.  1002.    2 NAD-SFC NoSubs
11  9 15 258 10  125.6 -9.000 -9.000 -9.000  434. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0 295.8  2.0   0  0.00   73.  1001.    2 NAD-SFC NoSubs
11  9 15 258 11  148.6 -9.000 -9.000 -9.000  581. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 297.9  2.0   0  0.00   63.  1001.    2 NAD-SFC NoSubs
11  9 15 258 12  159.8 -9.000 -9.000 -9.000  727. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 299.6  2.0   0  0.00   55.  1000.    2 NAD-SFC NoSubs
11  9 15 258 13  159.0 -9.000 -9.000 -9.000  875. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 301.0  2.0   0  0.00   49.   999.    2 NAD-SFC NoSubs
11  9 15 258 14  146.0  0.180  1.592  0.008  985.  184.     -3.6  0.2930  0.52  0.19  1.00  332.0  15.0 301.9  2.0   0  0.00   45.   998.    2 NAD-SFC NoSubs
11  9 15 258 15  121.1  0.227  1.526  0.008 1045.  260.     -8.6  0.2930  0.52  0.20  1.50  348.0  15.0 302.2  2.0   0  0.00   44.   998.    2 NAD-SFC NoSubs
11  9 15 258 16   85.4  0.368  1.376  0.007 1085.  535.    -51.8  0.2940  0.52  0.22  3.10   10.0  15.0 302.2  2.0   0  0.00   46.   997.    2 NAD-SFC NoSubs
11  9 15 258 17   41.7  0.350  1.089  0.007 1102.  497.    -91.4  0.2940  0.52  0.28  3.10   12.0  15.0 301.2  2.0   0  0.00   59.   997.    3 NAD-SFC NoSubs
11  9 15 258 18  -10.1  0.364 -9.000 -9.000 -999.  528.    426.7  0.2930  0.52  0.49  3.60  352.0  15.0 299.4  2.0   0  0.00   66.   998.    3 NAD-SFC NoSubs
11  9 15 258 19  -33.7  0.347 -9.000 -9.000 -999.  492.    110.7  0.2720  0.52  1.00  3.60  311.0  15.0 298.0  2.0   0  0.00   71.   999.    4 NAD-SFC NoSubs
11  9 15 258 20  -36.4  0.373 -9.000 -9.000 -999.  547.    126.9  0.2160  0.52  1.00  4.10  279.0  15.0 296.2  2.0   0  0.00   78.   999.    4 NAD-SFC NoSubs
11  9 15 258 21  -38.0  0.373 -9.000 -9.000 -999.  546.    121.4  0.2160  0.52  1.00  4.10  278.0  15.0 294.5  2.0   0  0.00   81.  1000.    3 NAD-SFC NoSubs
11  9 15 258 22  -28.5  0.278 -9.000 -9.000 -999.  357.     67.4  0.2160  0.52  1.00  3.10  280.0  15.0 293.5  2.0   0  0.00   81.  1001.    3 NAD-SFC NoSubs
11  9 15 258 23  -21.6  0.231 -9.000 -9.000 -999.  267.     50.9  0.2160  0.52  1.00  2.60  295.0  15.0 292.8  2.0   0  0.00   82.  1001.    4 NAD-SFC NoSubs
11  9 15 258 24  -24.1  0.247 -9.000 -9.000 -999.  294.     55.5  0.2720  0.52  1.00  2.60  310.0  15.0 291.9  2.0   0  0.00   83.  1001.    4 NAD-SFC NoSubs
11  9 16 259  1  -24.1  0.247 -9.000 -9.000 -999.  294.     55.4  0.2720  0.52  1.00  2.60  312.0  15.0 291.2  2.0   0  0.00   83.  1001.    4 NAD-SFC NoSubs
11  9 16 259  2  -24.2  0.246 -9.000 -9.000 -999.  294.     55.4  0.2720  0.52  1.00  2.60  318.0  15.0 290.6  2.0   0  0.00   84.  1002.    4 NAD-SFC NoSubs
11  9 16 259  3  -15.5  0.196 -9.000 -9.000 -999.  209.     43.2  0.2720  0.52  1.00  2.10  318.0  15.0 290.1  2.0   0  0.00   84.  1002.    4 NAD-SFC NoSubs
11  9 16 259  4  -15.5  0.196 -9.000 -9.000 -999.  208.     43.2  0.2720  0.52  1.00  2.10  316.0  15.0 289.6  2.0   0  0.00   84.  1001.    4 NAD-SFC NoSubs
11  9 16 259  5  -16.1  0.200 -9.000 -9.000 -999.  215.     44.5  0.2930  0.52  1.00  2.10  342.0  15.0 289.2  2.0   0  0.00   84.  1002.    4 NAD-SFC NoSubs
11  9 16 259  6  -16.1  0.200 -9.000 -9.000 -999.  215.     44.5  0.2930  0.52  1.00  2.10  354.0  15.0 289.0  2.0   0  0.00   85.  1002.    4 NAD-SFC NoSubs
11  9 16 259  7    2.2  0.220  0.192  0.007  116.  247.   -440.0  0.2930  0.52  0.42  2.10  358.0  15.0 289.1  2.0   0  0.00   85.  1002.    3 NAD-SFC NoSubs
11  9 16 259  8   48.4  0.205  0.733  0.007  291.  223.    -16.0  0.2930  0.52  0.26  1.50  350.0  15.0 289.9  2.0   0  0.00   79.  1002.    3 NAD-SFC NoSubs
11  9 16 259  9   90.9 -9.000 -9.000 -9.000  445. -999. -99999.0  0.2235  0.52  0.21  0.00    0.0  15.0 291.2  2.0   0  0.00   73.  1002.    3 NAD-SFC NoSubs
11  9 16 259 10  124.3 -9.000 -9.000 -9.000  598. -999. -99999.0  0.2235  0.52  0.20  0.00    0.0  15.0 293.0  2.0   0  0.00   69.  1002.    3 NAD-SFC NoSubs
11  9 16 259 11  146.8 -9.000 -9.000 -9.000  717. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 294.8  2.0   0  0.00   65.  1002.    3 NAD-SFC NoSubs
11  9 16 259 12  157.7 -9.000 -9.000 -9.000  813. -999. -99999.0  0.2235  0.52  0.19  0.00    0.0  15.0 296.4  2.0   0  0.00   60.  1001.    3 NAD-SFC NoSubs
11  9 16 259 13  156.8  0.118  1.580  0.012  899.   97.     -1.0  0.2720  0.52  0.19  0.50  313.0  15.0 297.9  2.0   0  0.00   54.  1000.    2 NAD-SFC NoSubs
11  9 16 259 14  143.8  0.177  1.575  0.012  971.  178.     -3.4  0.2720  0.52  0.19  1.00  325.0  15.0 299.0  2.0   0  0.00   49.  1000.    2 NAD-SFC NoSubs
11  9 16 259 15  118.9  0.227  1.499  0.012 1011.  259.     -8.7  0.2930  0.52  0.20  1.50  331.0  15.0 299.6  2.0   0  0.00   46.   999.    2 NAD-SFC NoSubs
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11  9 16 259 16   83.9  0.275  1.346  0.011 1038.  346.    -22.1 0.2930  0.52  0.22  2.10 352.0  15.0 299.8  2.0    0  0.00   46.   999.     3 NAD-SFC NoSubs
11  9 16 259 17   39.8 -9.000 -9.000 -9.000 1050. -999. -99999.0 0.2235  0.52  0.28  0.00   0.0  15.0 299.5  2.0    0  0.00   53.   999.     3 NAD-SFC NoSubs
11  9 16 259 18  -13.1  0.363 -9.000 -9.000 -999.  524.    323.6 0.2940  0.52  0.50  3.60  14.0  15.0 298.5  2.0    0  0.00   59.  1000.     3 NAD-SFC NoSubs
11  9 16 259 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 297.2  2.0    0  0.00   64.  1000.     4 NAD-SFC NoSubs
11  9 16 259 20  -27.3  0.279 -9.000 -9.000 -999.  353.    70.8  0.2160  0.52  1.00  3.10 290.0  15.0 296.2  2.0    0  0.00   68.  1001.     4 NAD-SFC NoSubs
11  9 16 259 21  -39.3  0.398 -9.000 -9.000 -999.  603.   143.5  0.1750  0.52  1.00  4.60 261.0  15.0 293.8  2.0    0  0.00   77.  1001.     4 NAD-SFC NoSubs
11  9 16 259 22  -39.6  0.398 -9.000 -9.000 -999.  603.   142.7  0.1750  0.52  1.00  4.60 256.0  15.0 292.1  2.0    0  0.00   82.  1002.     4 NAD-SFC NoSubs
11  9 16 259 23  -30.7  0.309 -9.000 -9.000 -999.  416.    85.4  0.1750  0.52  1.00  3.60 267.0  15.0 291.5  2.0    0  0.00   85.  1002.     4 NAD-SFC NoSubs
11  9 16 259 24  -25.0  0.264 -9.000 -9.000 -999.  327.    65.7  0.1750  0.52  1.00  3.10 264.0  15.0 291.2  2.0    0  0.00   86.  1002.     5 NAD-SFC NoSubs
11  9 17 260  1  -18.0  0.220 -9.000 -9.000 -999.  248.    52.9  0.1750  0.52  1.00  2.60 269.0  15.0 291.0  2.0    0  0.00   86.  1003.     7 NAD-SFC NoSubs
11  9 17 260  2  -23.5  0.247 -9.000 -9.000 -999.  294.    57.4  0.2720  0.52  1.00  2.60 303.0  15.0 290.8  2.0    0  0.00   87.  1003.     5 NAD-SFC NoSubs
11  9 17 260  3  -15.2  0.196 -9.000 -9.000 -999.  209.    44.5  0.2720  0.52  1.00  2.10 318.0  15.0 290.5  2.0    0  0.00   88.  1003.     5 NAD-SFC NoSubs
11  9 17 260  4   -7.8  0.140 -9.000 -9.000 -999.  126.    31.2  0.2930  0.52  1.00  1.50 342.0  15.0 290.1  2.0    0  0.00   90.  1003.     5 NAD-SFC NoSubs
11  9 17 260  5   -3.9  0.101 -9.000 -9.000 -999.   77.    23.7  0.2930  0.52  1.00  1.00 340.0  15.0 290.0  2.0    0  0.00   90.  1004.     4 NAD-SFC NoSubs
11  9 17 260  6   -1.6  0.082 -9.000 -9.000 -999.   56.    31.4  0.2930  0.52  1.00  0.50 332.0  15.0 289.9  2.0    0  0.00   90.  1004.     4 NAD-SFC NoSubs
11  9 17 260  7    3.0  0.117  0.163  0.007   51.   96.    -47.6 0.2720  0.52  0.42  1.00 325.0  15.0 289.8  2.0    0  0.00   90.  1005.     4 NAD-SFC NoSubs
11  9 17 260  8   48.0  0.156  0.699  0.006  256.  149.     -7.2 0.2930  0.52  0.26  1.00 350.0  15.0 290.8  2.0    0  0.00   82.  1005.     3 NAD-SFC NoSubs
11  9 17 260  9   90.5 -9.000 -9.000 -9.000  370. -999. -99999.0 0.2235  0.52  0.21  0.00   0.0  15.0 292.2  2.0    0  0.00   75.  1005.     3 NAD-SFC NoSubs
11  9 17 260 10  123.9 -9.000 -9.000 -9.000  560. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 294.0  2.0    0  0.00   68.  1005.     3 NAD-SFC NoSubs
11  9 17 260 11  146.4 -9.000 -9.000 -9.000  778. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 295.6  2.0    0  0.00   63.  1005.     3 NAD-SFC NoSubs
11  9 17 260 12  157.1 -9.000 -9.000 -9.000  984. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 296.9  2.0    0  0.00   58.  1004.     2 NAD-SFC NoSubs
11  9 17 260 13  155.9 -9.000 -9.000 -9.000 1069. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 298.0  2.0    0  0.00   54.  1003.     2 NAD-SFC NoSubs
11  9 17 260 14  142.7 -9.000 -9.000 -9.000 1141. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 298.8  2.0    0  0.00   51.  1002.     2 NAD-SFC NoSubs
11  9 17 260 15  117.8  0.175  1.580  0.012 1198.  176.     -4.1 0.2930  0.52  0.20  1.00 360.0  15.0 299.4  2.0    0  0.00   50.  1002.     2 NAD-SFC NoSubs
11  9 17 260 16   82.0  0.320  1.415  0.013 1236.  435.    -35.8 0.2930  0.52  0.22  2.60 354.0  15.0 299.8  2.0    0  0.00   49.  1002.     2 NAD-SFC NoSubs
11  9 17 260 17   37.5  0.256  1.095  0.013 1253.  313.    -40.0 0.2940  0.52  0.29  2.10   5.0  15.0 299.6  2.0    0  0.00   55.  1001.     2 NAD-SFC NoSubs
11  9 17 260 18  -15.1  0.308 -9.000 -9.000 -999.  411.    173.4 0.2940  0.52  0.51  3.10  15.0  15.0 299.1  2.0    0  0.00   57.  1002.     2 NAD-SFC NoSubs
11  9 17 260 19  -25.6  0.252 -9.000 -9.000 -999.  305.     55.9 0.2940  0.52  1.00  2.60   6.0  15.0 298.0  2.0    0  0.00   60.  1003.     2 NAD-SFC NoSubs
11  9 17 260 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 297.0  2.0    0  0.00   63.  1003.     2 NAD-SFC NoSubs
11  9 17 260 21   -3.9  0.100 -9.000 -9.000 -999.   76.    23.3  0.2720  0.52  1.00  1.00 308.0  15.0 295.8  2.0    0  0.00   67.  1004.     2 NAD-SFC NoSubs
11  9 17 260 22   -7.2  0.129 -9.000 -9.000 -999.  111.    26.6  0.2160  0.52  1.00  1.50 287.0  15.0 294.8  2.0    0  0.00   70.  1004.     2 NAD-SFC NoSubs
11  9 17 260 23   -8.0  0.137 -9.000 -9.000 -999.  122.    28.8  0.2720  0.52  1.00  1.50 307.0  15.0 293.9  2.0    0  0.00   72.  1004.     2 NAD-SFC NoSubs
11  9 17 260 24  -15.9  0.195 -9.000 -9.000 -999.  207.    41.9  0.2720  0.52  1.00  2.10 328.0  15.0 293.1  2.0    0  0.00   73.  1004.     2 NAD-SFC NoSubs
11  9 18 261  1  -25.8  0.252 -9.000 -9.000 -999.  303.    55.2  0.2930  0.52  1.00  2.60 339.0  15.0 292.2  2.0    0  0.00   74.  1005.     2 NAD-SFC NoSubs
11  9 18 261  2  -16.6  0.200 -9.000 -9.000 -999.  215.    43.1  0.2930  0.52  1.00  2.10 330.0  15.0 291.6  2.0    0  0.00   76.  1005.     2 NAD-SFC NoSubs
11  9 18 261  3  -15.8  0.196 -9.000 -9.000 -999.  207.    42.4  0.2720  0.52  1.00  2.10 319.0  15.0 291.0  2.0    0  0.00   77.  1005.     3 NAD-SFC NoSubs
11  9 18 261  4  -16.0  0.195 -9.000 -9.000 -999.  207.    41.7  0.2720  0.52  1.00  2.10 320.0  15.0 290.4  2.0    0  0.00   79.  1005.     2 NAD-SFC NoSubs
11  9 18 261  5   -8.0  0.137 -9.000 -9.000 -999.  122.    28.6  0.2720  0.52  1.00  1.50 327.0  15.0 289.9  2.0    0  0.00   81.  1006.     2 NAD-SFC NoSubs
11  9 18 261  6   -4.1  0.102 -9.000 -9.000 -999.   79.    23.6  0.2930  0.52  1.00  1.00 351.0  15.0 289.4  2.0    0  0.00   84.  1006.     2 NAD-SFC NoSubs
11  9 18 261  7   -0.1  0.049 -9.000 -9.000 -999.   27.   110.4  0.2940  0.52  0.42  0.50   9.0  15.0 289.2  2.0    0  0.00   86.  1007.     2 NAD-SFC NoSubs
11  9 18 261  8   46.4 -9.000 -9.000 -9.000  168. -999. -99999.0 0.2235  0.52  0.26  0.00   0.0  15.0 290.9  2.0    0  0.00   78.  1007.     2 NAD-SFC NoSubs
11  9 18 261  9   89.5 -9.000 -9.000 -9.000  300. -999. -99999.0 0.2235  0.52  0.21  0.00   0.0  15.0 293.0  2.0    0  0.00   68.  1007.     2 NAD-SFC NoSubs
11  9 18 261 10  123.2 -9.000 -9.000 -9.000  459. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 294.8  2.0    0  0.00   60.  1006.     2 NAD-SFC NoSubs
11  9 18 261 11  145.9 -9.000 -9.000 -9.000  651. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 296.6  2.0    0  0.00   54.  1006.     2 NAD-SFC NoSubs
11  9 18 261 12  156.9 -9.000 -9.000 -9.000  776. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 298.5  2.0    0  0.00   47.  1005.     2 NAD-SFC NoSubs
11  9 18 261 13  155.9 -9.000 -9.000 -9.000  882. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 299.9  2.0    0  0.00   43.  1004.     2 NAD-SFC NoSubs
11  9 18 261 14  142.7  0.118  1.568  0.012  969.   98.     -1.0 0.2930  0.52  0.19  0.50 346.0  15.0 300.9  2.0    0  0.00   40.  1004.     2 NAD-SFC NoSubs
11  9 18 261 15  117.6  0.175  1.492  0.012 1011.  176.     -4.1 0.2940  0.52  0.20  1.00  10.0  15.0 301.5  2.0    0  0.00   39.  1003.     2 NAD-SFC NoSubs
11  9 18 261 16   81.8  0.218  1.333  0.012 1037.  244.    -11.3 0.2940  0.52  0.22  1.50  18.0  15.0 301.8  2.0    0  0.00   39.  1003.     2 NAD-SFC NoSubs
11  9 18 261 17   37.0  0.200  1.027  0.012 1049.  215.    -19.4 0.2940  0.52  0.29  1.50  28.0  15.0 301.2  2.0    0  0.00   46.  1003.     2 NAD-SFC NoSubs
11  9 18 261 18   -5.4  0.136 -9.000 -9.000 -999.  121.     41.2 0.2470  0.52  0.52  1.50  34.0  15.0 300.5  2.0    0  0.00   49.  1003.     2 NAD-SFC NoSubs
11  9 18 261 19   -3.7  0.098 -9.000 -9.000 -999.   74.     22.9 0.2470  0.52  1.00  1.00  36.0  15.0 299.2  2.0    0  0.00   54.  1003.     2 NAD-SFC NoSubs
11  9 18 261 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 297.6  2.0    0  0.00   60.  1003.     2 NAD-SFC NoSubs
11  9 18 261 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 296.2  2.0    0  0.00   66.  1003.     2 NAD-SFC NoSubs
11  9 18 261 22   -3.6  0.096 -9.000 -9.000 -999.   72.     22.4 0.2160  0.52  1.00  1.00 277.0  15.0 295.2  2.0    0  0.00   70.  1004.     2 NAD-SFC NoSubs
11  9 18 261 23   -8.0  0.137 -9.000 -9.000 -999.  122.     28.9 0.2720  0.52  1.00  1.50 308.0  15.0 294.4  2.0    0  0.00   72.  1004.     2 NAD-SFC NoSubs
11  9 18 261 24   -3.9  0.101 -9.000 -9.000 -999.   77.     23.3 0.2720  0.52  1.00  1.00 329.0  15.0 293.6  2.0    0  0.00   74.  1004.     2 NAD-SFC NoSubs
11  9 19 262  1   -1.7  0.084 -9.000 -9.000 -999.   58.     31.9 0.2930  0.52  1.00  0.50 342.0  15.0 293.1  2.0    0  0.00   76.  1004.     2 NAD-SFC NoSubs
11  9 19 262  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 292.5  2.0    0  0.00   78.  1004.     2 NAD-SFC NoSubs
11  9 19 262  3   -1.5  0.080 -9.000 -9.000 -999.   54.     31.1 0.1900  0.52  1.00  0.50 200.0  15.0 291.8  2.0    0  0.00   80.  1004.     2 NAD-SFC NoSubs
11  9 19 262  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 291.2  2.0    0  0.00   82.  1004.     2 NAD-SFC NoSubs
11  9 19 262  5   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4 0.2160  0.52  1.00  0.50 295.0  15.0 290.8  2.0    0  0.00   84.  1004.     2 NAD-SFC NoSubs
11  9 19 262  6   -1.5  0.081 -9.000 -9.000 -999.   55.     31.5 0.2160  0.52  1.00  0.50 292.0  15.0 290.5  2.0    0  0.00   85.  1004.     2 NAD-SFC NoSubs
11  9 19 262  7   -0.1  0.045 -9.000 -9.000 -999.   23.     55.6 0.2160  0.52  0.43  0.50 277.0  15.0 290.4  2.0    0  0.00   85.  1004.     2 NAD-SFC NoSubs
11  9 19 262  8   46.3  0.100  0.533  0.009  117.   76.     -1.9 0.2720  0.52  0.26  0.50 322.0  15.0 292.8  2.0    0  0.00   76.  1004.     2 NAD-SFC NoSubs
11  9 19 262  9   89.4 -9.000 -9.000 -9.000  253. -999. -99999.0 0.2235  0.52  0.21  0.00   0.0  15.0 294.8  2.0    0  0.00   68.  1004.     2 NAD-SFC NoSubs
11  9 19 262 10  123.5 -9.000 -9.000 -9.000  434. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 297.4  2.0    0  0.00   58.  1004.     2 NAD-SFC NoSubs
11  9 19 262 11  146.2 -9.000 -9.000 -9.000  656. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 299.2  2.0    0  0.00   51.  1003.     2 NAD-SFC NoSubs
11  9 19 262 12  157.2 -9.000 -9.000 -9.000  729. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 301.0  2.0    0  0.00   46.  1002.     2 NAD-SFC NoSubs
11  9 19 262 13  156.2 -9.000 -9.000 -9.000  795. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 302.5  2.0    0  0.00   41.  1002.     2 NAD-SFC NoSubs
11  9 19 262 14  143.0 -9.000 -9.000 -9.000  851. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 303.6  2.0    0  0.00   38.  1001.     2 NAD-SFC NoSubs
11  9 19 262 15  117.9  0.111  1.435  0.009  895.   89.     -1.0 0.2470  0.52  0.20  0.50  45.0  15.0 304.2  2.0    0  0.00   36.  1000.     2 NAD-SFC NoSubs
11  9 19 262 16   81.8  0.210  1.284  0.008  923.  230.    -10.0 0.2470  0.52  0.22  1.50  44.0  15.0 304.2  2.0    0  0.00   37.  1000.     2 NAD-SFC NoSubs
11  9 19 262 17   37.1  0.193  0.991  0.008  935.  203.    -17.3 0.2470  0.52  0.29  1.50  49.0  15.0 303.9  2.0    0  0.00   44.  1000.     2 NAD-SFC NoSubs
11  9 19 262 18   -5.5  0.136 -9.000 -9.000 -999.  121.     40.9 0.2470  0.52  0.53  1.50  46.0  15.0 302.9  2.0    0  0.00   48.  1000.     2 NAD-SFC NoSubs
11  9 19 262 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 301.4  2.0    0  0.00   53.  1000.     2 NAD-SFC NoSubs
11  9 19 262 20  -12.9  0.173 -9.000 -9.000 -999.  173.     35.9 0.1750  0.52  1.00  2.10 267.0  15.0 300.0  2.0    0  0.00   59.  1001.     2 NAD-SFC NoSubs
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11  9 19 262 21  -43.5  0.420 -9.000 -9.000 -999.  653.    152.0  0.2160  0.52  1.00   4.60  290.0  15.0  298.0  2.0   0  0.00  65.  1001.    2 NAD-SFC NoSubs
11  9 19 262 22  -34.0  0.325 -9.000 -9.000 -999.  451.     90.5  0.2160  0.52  1.00   3.60  295.0  15.0  295.9  2.0   0  0.00  72.  1002.    2 NAD-SFC NoSubs
11  9 19 262 23  -31.1  0.297 -9.000 -9.000 -999.  388.     75.0  0.2720  0.52  1.00   3.10  311.0  15.0  295.0  2.0   0  0.00  73.  1002.    2 NAD-SFC NoSubs
11  9 19 262 24  -25.7  0.252 -9.000 -9.000 -999.  304.     55.4  0.2930  0.52  1.00   2.60  333.0  15.0  294.2  2.0   0  0.00  73.  1002.    2 NAD-SFC NoSubs
11  9 20 263  1  -25.7  0.252 -9.000 -9.000 -999.  303.     55.4  0.2940  0.52  1.00   2.60   10.0  15.0  293.6  2.0   0  0.00  75.  1002.    2 NAD-SFC NoSubs
11  9 20 263  2  -16.5  0.200 -9.000 -9.000 -999.  215.     43.2  0.2940  0.52  1.00   2.10    7.0  15.0  293.0  2.0   0  0.00  76.  1003.    2 NAD-SFC NoSubs
11  9 20 263  3   -4.0  0.102 -9.000 -9.000 -999.   83.     23.7  0.2940  0.52  1.00   1.00   10.0  15.0  292.5  2.0   0  0.00  76.  1003.    2 NAD-SFC NoSubs
11  9 20 263  4   -1.4  0.079 -9.000 -9.000 -999.   53.     30.9  0.1750  0.52  1.00   0.50  250.0  15.0  292.4  2.0   0  0.00  74.  1002.    2 NAD-SFC NoSubs
11  9 20 263  5   -1.5  0.080 -9.000 -9.000 -999.   54.     31.1  0.1900  0.52  1.00   0.50  209.0  15.0  292.1  2.0   0  0.00  74.  1002.    2 NAD-SFC NoSubs
11  9 20 263  6   -1.4  0.079 -9.000 -9.000 -999.   54.     31.0  0.1810  0.52  1.00   0.50  171.0  15.0  291.8  2.0   0  0.00  75.  1003.    2 NAD-SFC NoSubs
11  9 20 263  7   -0.2  0.043 -9.000 -9.000 -999.   21.     42.7  0.1970  0.52  0.43   0.50  139.0  15.0  291.4  2.0   0  0.00  77.  1003.    2 NAD-SFC NoSubs
11  9 20 263  8   46.0 -9.000 -9.000 -9.000  135. -999. -99999.0  0.2235  0.52  0.26   0.00    0.0  15.0  293.9  2.0   0  0.00  65.  1003.    2 NAD-SFC NoSubs
11  9 20 263  9   89.3 -9.000 -9.000 -9.000  265. -999. -99999.0  0.2235  0.52  0.21   0.00    0.0  15.0  296.1  2.0   0  0.00  58.  1003.    2 NAD-SFC NoSubs
11  9 20 263 10  123.0 -9.000 -9.000 -9.000  410. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  297.9  2.0   0  0.00  53.  1002.    2 NAD-SFC NoSubs
11  9 20 263 11  145.6 -9.000 -9.000 -9.000  579. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  299.5  2.0   0  0.00  50.  1002.    2 NAD-SFC NoSubs
11  9 20 263 12  156.5 -9.000 -9.000 -9.000  724. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  301.2  2.0   0  0.00  46.  1001.    2 NAD-SFC NoSubs
11  9 20 263 13  155.3 -9.000 -9.000 -9.000  849. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  302.6  2.0   0  0.00  42.  1000.    2 NAD-SFC NoSubs
11  9 20 263 14  142.0  0.116  1.558  0.008  950.   95.     -1.0  0.2720  0.52  0.19   0.50  329.0  15.0  303.6  2.0   0  0.00  40.   999.    2 NAD-SFC NoSubs
11  9 20 263 15  116.8 -9.000 -9.000 -9.000 1016. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  304.2  2.0   0  0.00  38.   999.    2 NAD-SFC NoSubs
11  9 20 263 16   80.7  0.274  1.337  0.009 1056.  345.    -22.7  0.2940  0.52  0.22   2.10   23.0  15.0  304.2  2.0   0  0.00  39.   998.    2 NAD-SFC NoSubs
11  9 20 263 17   35.9  0.255  1.026  0.009 1073.  310.    -41.2  0.2940  0.52  0.30   2.10   22.0  15.0  303.9  2.0   0  0.00  48.   998.    2 NAD-SFC NoSubs
11  9 20 263 18  -11.8  0.204 -9.000 -9.000 -999.  223.     64.4  0.2940  0.52  0.54   2.10   25.0  15.0  302.9  2.0   0  0.00  52.   998.    2 NAD-SFC NoSubs
11  9 20 263 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  301.4  2.0   0  0.00  57.   999.    2 NAD-SFC NoSubs
11  9 20 263 20   -1.4  0.078 -9.000 -9.000 -999.   52.     30.6  0.1750  0.52  1.00   0.50  251.0  15.0  299.8  2.0   0  0.00  64.   999.    2 NAD-SFC NoSubs
11  9 20 263 21  -12.9  0.173 -9.000 -9.000 -999.  173.     35.8  0.1750  0.52  1.00   2.10  267.0  15.0  298.8  2.0   0  0.00  67.   999.    2 NAD-SFC NoSubs
11  9 20 263 22  -28.8  0.278 -9.000 -9.000 -999.  352.     66.5  0.2160  0.52  1.00   3.10  287.0  15.0  297.6  2.0   0  0.00  68.  1000.    2 NAD-SFC NoSubs
11  9 20 263 23  -24.6  0.246 -9.000 -9.000 -999.  293.     54.0  0.2720  0.52  1.00   2.60  317.0  15.0  296.4  2.0   0  0.00  69.  1000.    2 NAD-SFC NoSubs
11  9 20 263 24  -25.6  0.252 -9.000 -9.000 -999.  303.     55.6  0.2930  0.52  1.00   2.60  340.0  15.0  295.6  2.0   0  0.00  70.  1000.    2 NAD-SFC NoSubs
11  9 21 264  1   -8.2  0.140 -9.000 -9.000 -999.  132.     29.7  0.2930  0.52  1.00   1.50  336.0  15.0  294.9  2.0   0  0.00  71.  1000.    2 NAD-SFC NoSubs
11  9 21 264  2   -4.0  0.102 -9.000 -9.000 -999.   78.     23.6  0.2930  0.52  1.00   1.00  349.0  15.0  294.2  2.0   0  0.00  72.  1001.    2 NAD-SFC NoSubs
11  9 21 264  3   -1.6  0.084 -9.000 -9.000 -999.   58.     31.9  0.2940  0.52  1.00   0.50    7.0  15.0  293.9  2.0   0  0.00  72.  1001.    2 NAD-SFC NoSubs
11  9 21 264  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  293.5  2.0   0  0.00  73.  1001.    2 NAD-SFC NoSubs
11  9 21 264  5   -1.4  0.079 -9.000 -9.000 -999.   53.     31.0  0.1810  0.52  1.00   0.50  159.0  15.0  292.8  2.0   0  0.00  76.  1001.    2 NAD-SFC NoSubs
11  9 21 264  6   -1.5  0.080 -9.000 -9.000 -999.   54.     31.1  0.1900  0.52  1.00   0.50  182.0  15.0  292.2  2.0   0  0.00  77.  1002.    2 NAD-SFC NoSubs
11  9 21 264  7   -0.2  0.042 -9.000 -9.000 -999.   21.     32.0  0.1900  0.52  0.44   0.50  197.0  15.0  292.1  2.0   0  0.00  77.  1002.    2 NAD-SFC NoSubs
11  9 21 264  8   45.6  0.093  0.541  0.010  124.   68.     -1.6  0.1950  0.52  0.26   0.50  233.0  15.0  294.6  2.0   0  0.00  68.  1002.    2 NAD-SFC NoSubs
11  9 21 264  9   88.8 -9.000 -9.000 -9.000  243. -999. -99999.0  0.2235  0.52  0.21   0.00    0.0  15.0  296.8  2.0   0  0.00  64.  1002.    2 NAD-SFC NoSubs
11  9 21 264 10  122.7 -9.000 -9.000 -9.000  389. -999. -99999.0  0.2235  0.52  0.20   0.00    0.0  15.0  299.0  2.0   0  0.00  58.  1001.    2 NAD-SFC NoSubs
11  9 21 264 11  145.4 -9.000 -9.000 -9.000  652. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  300.8  2.0   0  0.00  53.  1001.    2 NAD-SFC NoSubs
11  9 21 264 12  156.3 -9.000 -9.000 -9.000  775. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  302.4  2.0   0  0.00  45.  1000.    2 NAD-SFC NoSubs
11  9 21 264 13  155.1 -9.000 -9.000 -9.000  880. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  303.9  2.0   0  0.00  38.   999.    2 NAD-SFC NoSubs
11  9 21 264 14  141.8 -9.000 -9.000 -9.000  965. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  305.0  2.0   0  0.00  33.   999.    2 NAD-SFC NoSubs
11  9 21 264 15  116.5  0.115  1.494  0.008 1020.   94.     -1.2  0.2930  0.52  0.20   0.50  353.0  15.0  305.5  2.0   0  0.00  32.   998.    2 NAD-SFC NoSubs
11  9 21 264 16   80.2  0.217  1.335  0.008 1055.  243.    -11.4  0.2940  0.52  0.22   1.50    8.0  15.0  305.6  2.0   0  0.00  33.   998.    2 NAD-SFC NoSubs
11  9 21 264 17   35.4  0.255  1.020  0.008 1070.  309.    -41.7  0.2940  0.52  0.30   2.10    8.0  15.0  305.2  2.0   0  0.00  41.   998.    2 NAD-SFC NoSubs
11  9 21 264 18  -12.5  0.204 -9.000 -9.000 -999.  222.     60.4  0.2940  0.52  0.55   2.10   22.0  15.0  303.8  2.0   0  0.00  48.   998.    2 NAD-SFC NoSubs
11  9 21 264 19   -3.9  0.101 -9.000 -9.000 -999.   83.     23.7  0.2940  0.52  1.00   1.00    2.0  15.0  302.1  2.0   0  0.00  54.   999.    2 NAD-SFC NoSubs
11  9 21 264 20   -1.5  0.080 -9.000 -9.000 -999.   54.     31.1  0.2160  0.52  1.00   0.50  292.0  15.0  300.2  2.0   0  0.00  61.   999.    2 NAD-SFC NoSubs
11  9 21 264 21  -14.1  0.183 -9.000 -9.000 -999.  188.     38.7  0.2160  0.52  1.00   2.10  285.0  15.0  299.0  2.0   0  0.00  65.   999.    2 NAD-SFC NoSubs
11  9 21 264 22  -33.7  0.325 -9.000 -9.000 -999.  445.     91.1  0.2160  0.52  1.00   3.60  295.0  15.0  297.8  2.0   0  0.00  69.  1000.    2 NAD-SFC NoSubs
11  9 21 264 23  -30.8  0.297 -9.000 -9.000 -999.  388.     75.4  0.2720  0.52  1.00   3.10  313.0  15.0  296.8  2.0   0  0.00  71.  1000.    2 NAD-SFC NoSubs
11  9 21 264 24  -25.5  0.252 -9.000 -9.000 -999.  304.     55.6  0.2930  0.52  1.00   2.60  339.0  15.0  296.0  2.0   0  0.00  72.  1000.    2 NAD-SFC NoSubs
11  9 22 265  1  -16.5  0.200 -9.000 -9.000 -999.  216.     43.4  0.2940  0.52  1.00   2.10   20.0  15.0  295.2  2.0   0  0.00  74.  1001.    2 NAD-SFC NoSubs
11  9 22 265  2   -8.2  0.140 -9.000 -9.000 -999.  126.     29.7  0.2940  0.52  1.00   1.50   22.0  15.0  294.8  2.0   0  0.00  75.  1001.    2 NAD-SFC NoSubs
11  9 22 265  3   -1.6  0.084 -9.000 -9.000 -999.   59.     31.9  0.2940  0.52  1.00   0.50   14.0  15.0  294.4  2.0   0  0.00  75.  1002.    2 NAD-SFC NoSubs
11  9 22 265  4   -1.4  0.079 -9.000 -9.000 -999.   53.     30.8  0.1750  0.52  1.00   0.50  255.0  15.0  294.0  2.0   0  0.00  74.  1002.    2 NAD-SFC NoSubs
11  9 22 265  5   -1.5  0.080 -9.000 -9.000 -999.   54.     31.1  0.1950  0.52  1.00   0.50  231.0  15.0  293.4  2.0   0  0.00  76.  1002.    2 NAD-SFC NoSubs
11  9 22 265  6   -3.5  0.095 -9.000 -9.000 -999.   70.     22.0  0.1950  0.52  1.00   1.00  235.0  15.0  293.0  2.0   0  0.00  77.  1003.    2 NAD-SFC NoSubs
11  9 22 265  7   -0.9  0.088 -9.000 -9.000 -999.   62.     69.3  0.1950  0.52  0.44   1.00  216.0  15.0  292.8  2.0   0  0.00  77.  1004.    2 NAD-SFC NoSubs
11  9 22 265  8   44.9  0.191  0.548  0.009  131.  200.    -13.9  0.2160  0.52  0.27   1.50  291.0  15.0  294.4  2.0   0  0.00  69.  1004.    2 NAD-SFC NoSubs
11  9 22 265  9   87.9  0.151  0.870  0.008  268.  141.     -3.5  0.1750  0.52  0.21   1.00  264.0  15.0  296.2  2.0   0  0.00  62.  1004.    2 NAD-SFC NoSubs
11  9 22 265 10  121.9  0.157  1.114  0.006  406.  150.     -2.9  0.1750  0.52  0.20   1.00  252.0  15.0  298.8  2.0   0  0.00  53.  1003.    2 NAD-SFC NoSubs
11  9 22 265 11  144.6  0.111  1.343  0.007  599.   89.     -1.0  0.2160  0.52  0.19   0.50  271.0  15.0  300.8  2.0   0  0.00  46.  1003.    2 NAD-SFC NoSubs
11  9 22 265 12  155.5 -9.000 -9.000 -9.000  762. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  302.5  2.0   0  0.00  40.  1002.    2 NAD-SFC NoSubs
11  9 22 265 13  154.2 -9.000 -9.000 -9.000  899. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  304.0  2.0   0  0.00  36.  1001.    2 NAD-SFC NoSubs
11  9 22 265 14  140.7 -9.000 -9.000 -9.000  994. -999. -99999.0  0.2235  0.52  0.19   0.00    0.0  15.0  304.9  2.0   0  0.00  33.  1000.    2 NAD-SFC NoSubs
11  9 22 265 15  115.2  0.284  1.499  0.008 1044.  363.    -17.7  0.2940  0.52  0.20   2.10   12.0  15.0  305.2  2.0   0  0.00  34.  1000.    2 NAD-SFC NoSubs
11  9 22 265 16   78.5  0.365  1.332  0.008 1075.  530.    -55.4  0.2940  0.52  0.22   3.10   20.0  15.0  304.6  2.0   0  0.00  42.  1000.    2 NAD-SFC NoSubs
11  9 22 265 17   33.3  0.345  1.005  0.008 1087.  488.   -110.5  0.2940  0.52  0.30   3.10   16.0  15.0  303.6  2.0   0  0.00  52.  1000.    2 NAD-SFC NoSubs
11  9 22 265 18  -21.0  0.306 -9.000 -9.000 -999.  408.    122.3  0.2940  0.52  0.56   3.10   21.0  15.0  302.5  2.0   0  0.00  54.  1000.    2 NAD-SFC NoSubs
11  9 22 265 19   -8.1  0.140 -9.000 -9.000 -999.  149.     30.0  0.2930  0.52  1.00   1.50  341.0  15.0  301.4  2.0   0  0.00  55.  1000.    2 NAD-SFC NoSubs
11  9 22 265 20  -14.1  0.183 -9.000 -9.000 -999.  188.     38.8  0.2160  0.52  1.00   2.10  280.0  15.0  300.1  2.0   0  0.00  59.  1001.    2 NAD-SFC NoSubs
11  9 22 265 21  -31.8  0.308 -9.000 -9.000 -999.  411.     82.2  0.1750  0.52  1.00   3.60  258.0  15.0  299.2  2.0   0  0.00  61.  1001.    2 NAD-SFC NoSubs
11  9 22 265 22  -28.8  0.278 -9.000 -9.000 -999.  352.     66.7  0.2160  0.52  1.00   3.10  270.0  15.0  298.2  2.0   0  0.00  61.  1002.    2 NAD-SFC NoSubs
11  9 22 265 23   -1.5  0.080 -9.000 -9.000 -999.  112.     31.2  0.2160  0.52  1.00   0.50  287.0  15.0  297.2  2.0   0  0.00  64.  1002.    2 NAD-SFC NoSubs
11  9 22 265 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  296.4  2.0   0  0.00  66.  1002.    2 NAD-SFC NoSubs
11  9 23 266  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.52  1.00   0.00    0.0  15.0  295.8  2.0   0  0.00  68.  1003.    2 NAD-SFC NoSubs
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11	9	23	266	2	-1.5	0.081	-9.000	-9.000	-999.	55.	31.3	0.2160	0.52	1.00	0.50	295.0	15.0	295.2	2.0	0	0.00	69.	1003.	2	NAD-SFC	NoSubs
11	9	23	266	3	-3.6	0.096	-9.000	-9.000	-999.	72.	22.4	0.2160	0.52	1.00	1.00	288.0	15.0	294.8	2.0	0	0.00	70.	1003.	2	NAD-SFC	NoSubs
11	9	23	266	4	-7.2	0.129	-9.000	-9.000	-999.	111.	26.6	0.2160	0.52	1.00	1.50	278.0	15.0	294.4	2.0	0	0.00	69.	1003.	2	NAD-SFC	NoSubs
11	9	23	266	5	-14.3	0.183	-9.000	-9.000	-999.	188.	38.3	0.2160	0.52	1.00	2.10	294.0	15.0	293.8	2.0	0	0.00	70.	1003.	2	NAD-SFC	NoSubs
11	9	23	266	6	-22.3	0.231	-9.000	-9.000	-999.	266.	49.1	0.2160	0.52	1.00	2.60	276.0	15.0	293.2	2.0	0	0.00	71.	1003.	2	NAD-SFC	NoSubs
11	9	23	266	7	-3.9	0.291	-9.000	-9.000	-999.	376.	560.5	0.2160	0.52	0.44	3.10	293.0	15.0	292.8	2.0	0	0.00	71.	1004.	2	NAD-SFC	NoSubs
11	9	23	266	8	44.4	0.286	0.526	0.009	117.	366.	-47.0	0.2160	0.52	0.27	2.60	286.0	15.0	294.9	2.0	0	0.00	62.	1004.	2	NAD-SFC	NoSubs
11	9	23	266	9	87.2	0.215	0.797	0.010	208.	242.	-10.3	0.2720	0.52	0.21	1.50	303.0	15.0	296.1	2.0	0	0.00	57.	1004.	2	NAD-SFC	NoSubs
11	9	23	266	10	120.6	-9.000	-9.000	-9.000	344.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	297.4	2.0	0	0.00	52.	1004.	2	NAD-SFC	NoSubs
11	9	23	266	11	142.8	-9.000	-9.000	-9.000	497.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	298.5	2.0	0	0.00	51.	1003.	2	NAD-SFC	NoSubs
11	9	23	266	12	153.6	-9.000	-9.000	-9.000	644.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.4	2.0	0	0.00	45.	1003.	2	NAD-SFC	NoSubs
11	9	23	266	13	152.1	0.120	1.477	0.007	758.	99.	-1.0	0.2930	0.52	0.19	0.50	346.0	15.0	301.6	2.0	0	0.00	41.	1002.	2	NAD-SFC	NoSubs
11	9	23	266	14	138.3	0.231	1.486	0.007	848.	266.	-7.9	0.2940	0.52	0.20	1.50	22.0	15.0	302.2	2.0	0	0.00	40.	1001.	2	NAD-SFC	NoSubs
11	9	23	266	15	112.7	0.225	1.424	0.006	915.	257.	-9.1	0.2940	0.52	0.20	1.50	6.0	15.0	302.6	2.0	0	0.00	41.	1001.	2	NAD-SFC	NoSubs
11	9	23	266	16	76.3	0.273	1.270	0.006	957.	342.	-23.7	0.2940	0.52	0.23	2.10	20.0	15.0	302.6	2.0	0	0.00	44.	1000.	2	NAD-SFC	NoSubs
11	9	23	266	17	31.2	0.298	0.948	0.006	973.	390.	-75.5	0.2940	0.52	0.31	2.60	25.0	15.0	301.9	2.0	0	0.00	52.	1000.	2	NAD-SFC	NoSubs
11	9	23	266	18	-19.0	0.254	-9.000	-9.000	-999.	309.	77.3	0.2940	0.52	0.58	2.60	11.0	15.0	301.1	2.0	0	0.00	54.	1000.	2	NAD-SFC	NoSubs
11	9	23	266	19	-8.1	0.140	-9.000	-9.000	-999.	132.	29.9	0.2930	0.52	1.00	1.50	344.0	15.0	300.0	2.0	0	0.00	56.	1000.	2	NAD-SFC	NoSubs
11	9	23	266	20	-27.2	0.263	-9.000	-9.000	-999.	324.	59.9	0.1750	0.52	1.00	3.10	268.0	15.0	298.9	2.0	0	0.00	59.	1000.	2	NAD-SFC	NoSubs
11	9	23	266	21	-38.6	0.373	-9.000	-9.000	-999.	546.	119.8	0.2160	0.52	1.00	4.10	276.0	15.0	298.4	2.0	0	0.00	58.	1001.	2	NAD-SFC	NoSubs
11	9	23	266	22	-38.7	0.373	-9.000	-9.000	-999.	546.	119.1	0.2160	0.52	1.00	4.10	286.0	15.0	296.9	2.0	0	0.00	63.	1001.	2	NAD-SFC	NoSubs
11	9	23	266	23	-31.0	0.297	-9.000	-9.000	-999.	391.	75.2	0.2720	0.52	1.00	3.10	304.0	15.0	295.8	2.0	0	0.00	67.	1002.	2	NAD-SFC	NoSubs
11	9	23	266	24	-31.7	0.303	-9.000	-9.000	-999.	400.	78.4	0.2930	0.52	1.00	3.10	338.0	15.0	295.1	2.0	0	0.00	68.	1002.	2	NAD-SFC	NoSubs
11	9	24	267	1	-37.2	0.354	-9.000	-9.000	-999.	506.	106.9	0.2930	0.52	1.00	3.60	351.0	15.0	294.4	2.0	0	0.00	70.	1002.	2	NAD-SFC	NoSubs
11	9	24	267	2	-37.3	0.354	-9.000	-9.000	-999.	506.	106.7	0.2930	0.52	1.00	3.60	352.0	15.0	293.9	2.0	0	0.00	72.	1002.	2	NAD-SFC	NoSubs
11	9	24	267	3	-31.9	0.303	-9.000	-9.000	-999.	402.	78.1	0.2940	0.52	1.00	3.10	1.0	15.0	293.4	2.0	0	0.00	73.	1001.	2	NAD-SFC	NoSubs
11	9	24	267	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.52	1.00	0.00	0.0	15.0	293.0	2.0	0	0.00	74.	1001.	2	NAD-SFC	NoSubs
11	9	24	267	5	-16.5	0.200	-9.000	-9.000	-999.	215.	43.2	0.2940	0.52	1.00	2.10	8.0	15.0	292.8	2.0	0	0.00	74.	1001.	2	NAD-SFC	NoSubs
11	9	24	267	6	-8.3	0.140	-9.000	-9.000	-999.	126.	29.6	0.2940	0.52	1.00	1.50	21.0	15.0	292.4	2.0	0	0.00	75.	1001.	2	NAD-SFC	NoSubs
11	9	24	267	7	-0.8	0.098	-9.000	-9.000	-999.	74.	103.1	0.2940	0.52	0.45	1.00	17.0	15.0	292.2	2.0	0	0.00	75.	1002.	3	NAD-SFC	NoSubs
11	9	24	267	8	43.5	0.099	0.516	0.011	113.	75.	-2.0	0.2720	0.52	0.27	0.50	300.0	15.0	294.2	2.0	0	0.00	65.	1002.	2	NAD-SFC	NoSubs
11	9	24	267	9	86.6	0.103	0.825	0.008	232.	80.	-1.1	0.2160	0.52	0.22	0.50	281.0	15.0	296.5	2.0	0	0.00	58.	1002.	2	NAD-SFC	NoSubs
11	9	24	267	10	120.3	-9.000	-9.000	-9.000	369.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	298.5	2.0	0	0.00	51.	1001.	2	NAD-SFC	NoSubs
11	9	24	267	11	142.8	-9.000	-9.000	-9.000	559.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	300.2	2.0	0	0.00	47.	1001.	2	NAD-SFC	NoSubs
11	9	24	267	12	153.4	-9.000	-9.000	-9.000	738.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	301.8	2.0	0	0.00	42.	1000.	2	NAD-SFC	NoSubs
11	9	24	267	13	151.7	-9.000	-9.000	-9.000	900.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	302.8	2.0	0	0.00	39.	999.	2	NAD-SFC	NoSubs
11	9	24	267	14	138.0	-9.000	-9.000	-9.000	1027.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	303.8	2.0	0	0.00	36.	999.	2	NAD-SFC	NoSubs
11	9	24	267	15	112.5	0.174	1.524	0.005	1122.	174.	-4.2	0.2930	0.52	0.20	1.00	354.0	15.0	304.2	2.0	0	0.00	34.	998.	2	NAD-SFC	NoSubs
11	9	24	267	16	75.9	-9.000	-9.000	-9.000	1181.	-999.	-99999.0	0.2235	0.52	0.23	0.00	0.0	15.0	304.2	2.0	0	0.00	35.	998.	2	NAD-SFC	NoSubs
11	9	24	267	17	32.2	0.293	1.029	0.005	1204.	381.	-69.8	0.2720	0.52	0.31	2.60	318.0	15.0	303.9	2.0	0	0.00	44.	998.	3	NAD-SFC	NoSubs
11	9	24	267	18	-34.9	0.471	-9.000	-9.000	-999.	776.	266.5	0.2160	0.52	0.59	5.10	281.0	15.0	300.6	2.0	0	0.00	56.	999.	3	NAD-SFC	NoSubs
11	9	24	267	19	-35.8	0.353	-9.000	-9.000	-999.	514.	109.8	0.1750	0.52	1.00	4.10	266.0	15.0	296.8	2.0	0	0.00	69.	1000.	3	NAD-SFC	NoSubs
11	9	24	267	20	-40.6	0.398	-9.000	-9.000	-999.	602.	138.5	0.1750	0.52	1.00	4.60	266.0	15.0	294.8	2.0	0	0.00	72.	1001.	3	NAD-SFC	NoSubs
11	9	24	267	21	-40.8	0.398	-9.000	-9.000	-999.	603.	137.9	0.1750	0.52	1.00	4.60	268.0	15.0	293.4	2.0	0	0.00	75.	1001.	3	NAD-SFC	NoSubs
11	9	24	267	22	-33.5	0.325	-9.000	-9.000	-999.	449.	91.8	0.2160	0.52	1.00	3.60	291.0	15.0	292.2	2.0	0	0.00	78.	1002.	3	NAD-SFC	NoSubs
11	9	24	267	23	-31.4	0.304	-9.000	-9.000	-999.	402.	79.7	0.2940	0.52	1.00	3.10	6.0	15.0	291.8	2.0	0	0.00	80.	1003.	3	NAD-SFC	NoSubs
11	9	24	267	24	-16.4	0.200	-9.000	-9.000	-999.	220.	43.7	0.2930	0.52	1.00	2.10	356.0	15.0	291.2	2.0	0	0.00	83.	1003.	3	NAD-SFC	NoSubs
11	9	25	268	1	-14.2	0.183	-9.000	-9.000	-999.	188.	38.7	0.2160	0.52	1.00	2.10	287.0	15.0	290.8	2.0	0	0.00	84.	1003.	3	NAD-SFC	NoSubs
11	9	25	268	2	-29.0	0.278	-9.000	-9.000	-999.	352.	66.5	0.2160	0.52	1.00	3.10	280.0	15.0	289.9	2.0	0	0.00	86.	1004.	3	NAD-SFC	NoSubs
11	9	25	268	3	-22.2	0.231	-9.000	-9.000	-999.	267.	49.5	0.2160	0.52	1.00	2.60	277.0	15.0	289.4	2.0	0	0.00	87.	1004.	3	NAD-SFC	NoSubs
11	9	25	268	4	-14.2	0.183	-9.000	-9.000	-999.	188.	38.6	0.2160	0.52	1.00	2.10	294.0	15.0	289.2	2.0	0	0.00	86.	1004.	3	NAD-SFC	NoSubs
11	9	25	268	5	-7.1	0.129	-9.000	-9.000	-999.	111.	26.7	0.2160	0.52	1.00	1.50	292.0	15.0	289.5	2.0	0	0.00	84.	1004.	3	NAD-SFC	NoSubs
11	9	25	268	6	-3.6	0.096	-9.000	-9.000	-999.	72.	22.4	0.2160	0.52	1.00	1.00	287.0	15.0	289.8	2.0	0	0.00	83.	1005.	3	NAD-SFC	NoSubs
11	9	25	268	7	-0.3	0.042	-9.000	-9.000	-999.	21.	22.3	0.1750	0.52	0.45	0.50	256.0	15.0	290.0	2.0	0	0.00	83.	1005.	3	NAD-SFC	NoSubs
11	9	25	268	8	42.6	0.138	0.614	0.006	194.	123.	-5.6	0.1750	0.52	0.27	1.00	269.0	15.0	290.2	2.0	0	0.00	83.	1005.	3	NAD-SFC	NoSubs
11	9	25	268	9	84.7	0.157	0.957	0.007	372.	149.	-4.1	0.2160	0.52	0.22	1.00	299.0	15.0	290.8	2.0	0	0.00	80.	1006.	3	NAD-SFC	NoSubs
11	9	25	268	10	117.4	-9.000	-9.000	-9.000	600.	-999.	-99999.0	0.2235	0.52	0.20	0.00	0.0	15.0	291.4	2.0	0	0.00	78.	1006.	3	NAD-SFC	NoSubs
11	9	25	268	11	139.4	-9.000	-9.000	-9.000	721.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	293.0	2.0	0	0.00	73.	1005.	3	NAD-SFC	NoSubs
11	9	25	268	12	149.7	-9.000	-9.000	-9.000	806.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	294.9	2.0	0	0.00	67.	1004.	3	NAD-SFC	NoSubs
11	9	25	268	13	148.0	-9.000	-9.000	-9.000	882.	-999.	-99999.0	0.2235	0.52	0.19	0.00	0.0	15.0	296.5	2.0	0	0.00	61.	1003.	2	NAD-SFC	NoSubs
11	9	25	268	14	134.4	0.115	1.526	0.010	946.	94.	-1.0	0.2720	0.52	0.20	0.50	325.0	15.0	297.6	2.0	0	0.00	57.	1003.	3	NAD-SFC	NoSubs
11	9	25	268	15	109.1	0.173	1.447	0.010	994.	173.	-4.3	0.2930	0.52	0.20	1.00	351.0	15.0	298.4	2.0	0	0.00	54.	1002.	3	NAD-SFC	NoSubs
11	9	25	268	16	72.9	0.271	1.278	0.010	1024.	339.	-24.5	0.2940	0.52	0.23	2.10	2.0	15.0	298.6	2.0	0	0.00	53.	1001.	3	NAD-SFC	NoSubs
11	9	25	268	17	28.5	0.251	0.939	0.010	1035.	301.	-49.2	0.2940	0.52	0.31	2.10	11.0	15.0	298.6	2.0	0	0.00	59.	1001.	3	NAD-SFC	NoSubs
11	9	25	268	18	-24.7	0.305	-9.000	-9.000	-999.	405.	102.9	0.2940	0.52	0.60	3.10	18.0	15.0	297.9	2.0	0	0.00	62.	1001.	3	NAD-SFC	NoSubs
11	9	25	268	19	-30.8	0.304	-9.000	-9.000	-999.	402.	81.2	0.2940	0.52	1.00	3.10	8.0	15.0	296.9	2.0	0	0.00	66.	1002.	3	NAD-SFC	NoSubs
11	9	25	268	20	-25.3	0.252	-9.000	-9.000	-999.	304.	56.4	0.2930	0.52	1.00	2.60	350.0	15.0	295.9	2.0	0	0.00	69.	1002.	3	NAD-SFC	NoSubs
11	9	25	268	21	-30.4	0.297	-9.000	-9.000	-999.	388.	77.0	0.2720	0.52	1.00	3.10	327.0	15.0	294.8	2.0	0	0.00	69.	1003.	3	NAD-SFC	NoSubs
11	9	25	268	22	-30.5	0.297	-9.000	-9.000	-999.	388.	76.7	0.2720	0.52	1.00	3.10	321.0	15.0	293.6	2.0	0	0.00	70.	1003.	3	NAD-SFC	NoSubs
11	9	25	268	23	-35.8	0.347	-9.000	-9.000	-999.	490.	104.4	0.2720	0.52	1.00	3.60	308.0	15.0	292.4	2.0	0	0.00	72.	1003.	3	NAD-SFC	NoSubs
11	9	25	268	24	-35.9	0.347	-9.000	-9.000	-999.	490.	104.0	0.2720	0.52	1.00	3.60	318.0	15.0	291.4	2.0	0	0.00	75.	1004.	3	NAD-SFC	NoSubs
11	9	26	269	1	-30.8	0.297	-9.000	-9.000	-999.	389.	75.9	0.2720	0.52	1.00	3.10	327.0	15.0	290.8	2.0	0	0.00	78.	1004.	3	NAD-SFC	NoSubs
11	9	26	269	2	-25.6	0.252	-9.000	-9.000	-999.	304.	55.8	0.2930	0.52	1.00	2.60	342.0	15.0	290.1	2.0	0	0.00	80.	1004.	3	NAD-SFC	NoSubs
11	9	26	269	3	-16.4	0.200	-9.000	-9.000	-999.	215.	43.5	0.2930	0.52	1.00	2.10	345.0	15.0	289.6	2.0	0	0.00	83.	1004.	3	NAD-SFC	NoSubs
11	9	26	269	4	-4.0	0.102	-9.000	-9.000	-999.	82.	23.7	0.2930	0.52	1.00	1.00	341.0	15.0	289.1	2.0	0	0.00	86.	1004.	3	NAD-SFC	NoSubs
11	9	26	269	5	-1.6	0.083	-9.000	-9.000	-999.	57.	31.7	0.2720	0.52	1.00	0.50	308.0	15.0	288.6	2.0	0	0.00	88.	1005.	3	NAD-SFC	NoSubs
11	9	26	269	6	-1.4	0.079	-9.000	-9.000	-999.	53.	30.8	0.1750	0.52	1.00	0.50	264.0	15.0	288.2	2.0	0	0.00	90.	1005.	3	NAD-SFC	NoSubs

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11  9 26 269  7   20.1 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  0.46  0.00    0.0  15.0 288.0  2.0    0  0.00   91. 1006.     3 NAD-SFC NoSubs
11  9 26 269  8   41.7 -9.000 -9.000 -9.000  285. -999. -99999.0 0.2235  0.52  0.27  0.00    0.0  15.0 289.2  2.0    0  0.00   85. 1006.     3 NAD-SFC NoSubs
11  9 26 269  9   83.8  0.110  0.992  0.007  418.   88.     -1.4 0.2940  0.52  0.22  0.50   13.0  15.0 290.4  2.0    0  0.00   79. 1006.     3 NAD-SFC NoSubs
11  9 26 269 10  116.7 -9.000 -9.000 -9.000  588. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 291.6  2.0    0  0.00   73. 1005.     3 NAD-SFC NoSubs
11  9 26 269 11  138.4 -9.000 -9.000 -9.000  724. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 293.2  2.0    0  0.00   66. 1005.     2 NAD-SFC NoSubs
11  9 26 269 12  148.7 -9.000 -9.000 -9.000  835. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 294.8  2.0    0  0.00   59. 1004.     2 NAD-SFC NoSubs
11  9 26 269 13  146.9  0.117  1.564  0.007  933.   96.     -1.0 0.2720  0.52  0.19  0.50  323.0  15.0 296.1  2.0    0  0.00   54. 1003.     2 NAD-SFC NoSubs
11  9 26 269 14  133.0  0.178  1.558  0.008 1017.  180.     -3.8 0.2930  0.52  0.20  1.00  331.0  15.0 297.1  2.0    0  0.00   49. 1002.     2 NAD-SFC NoSubs
11  9 26 269 15  107.2  0.224  1.480  0.008 1081.  255.     -9.4 0.2930  0.52  0.20  1.50  345.0  15.0 297.8  2.0    0  0.00   47. 1002.     2 NAD-SFC NoSubs
11  9 26 269 16   70.6  0.270  1.303  0.008 1121.  337.    -24.9 0.2930  0.52  0.23  2.10  354.0  15.0 297.9  2.0    0  0.00   45. 1002.     2 NAD-SFC NoSubs
11  9 26 269 17   25.8  0.193  0.936  0.008 1136.  206.    -24.9 0.2930  0.52  0.32  1.50  360.0  15.0 297.9  2.0    0  0.00   48. 1002.     2 NAD-SFC NoSubs
11  9 26 269 18   -3.5  0.098 -9.000 -9.000 -999.   78.     24.0 0.2940  0.52  0.61  1.00    7.0  15.0 297.2  2.0    0  0.00   50. 1002.     2 NAD-SFC NoSubs
11  9 26 269 19   -1.6  0.084 -9.000 -9.000 -999.   58.     31.8 0.2940  0.52  1.00  0.50   13.0  15.0 296.0  2.0    0  0.00   55. 1002.     2 NAD-SFC NoSubs
11  9 26 269 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00    0.0  15.0 294.6  2.0    0  0.00   62. 1003.     2 NAD-SFC NoSubs
11  9 26 269 21   -1.5  0.081 -9.000 -9.000 -999.   55.     31.3 0.2130  0.52  1.00  0.50  119.0  15.0 293.2  2.0    0  0.00   68. 1003.     2 NAD-SFC NoSubs
11  9 26 269 22   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4 0.2130  0.52  1.00  0.50  102.0  15.0 292.2  2.0    0  0.00   74. 1003.     2 NAD-SFC NoSubs
11  9 26 269 23   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4 0.2130  0.52  1.00  0.50  104.0  15.0 291.4  2.0    0  0.00   78. 1003.     2 NAD-SFC NoSubs
11  9 26 269 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00    0.0  15.0 290.8  2.0    0  0.00   81. 1003.     2 NAD-SFC NoSubs
11  9 27 270  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00    0.0  15.0 290.2  2.0    0  0.00   82. 1003.     2 NAD-SFC NoSubs
11  9 27 270  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00    0.0  15.0 289.8  2.0    0  0.00   82. 1003.     2 NAD-SFC NoSubs
11  9 27 270  3   -1.6  0.083 -9.000 -9.000 -999.   58.     31.9 0.2720  0.52  1.00  0.50  317.0  15.0 289.5  2.0    0  0.00   83. 1003.     2 NAD-SFC NoSubs
11  9 27 270  4   -1.7  0.084 -9.000 -9.000 -999.   59.     32.1 0.2930  0.52  1.00  0.50  333.0  15.0 289.2  2.0    0  0.00   82. 1004.     2 NAD-SFC NoSubs
11  9 27 270  5   -1.7  0.084 -9.000 -9.000 -999.   59.     32.1 0.2930  0.52  1.00  0.50  350.0  15.0 288.9  2.0    0  0.00   83. 1004.     2 NAD-SFC NoSubs
11  9 27 270  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00    0.0  15.0 288.5  2.0    0  0.00   84. 1004.     2 NAD-SFC NoSubs
11  9 27 270  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  0.46  0.00    0.0  15.0 288.1  2.0    0  0.00   85. 1005.     2 NAD-SFC NoSubs
11  9 27 270  8   40.0 -9.000 -9.000 -9.000  152. -999. -99999.0 0.2235  0.52  0.27  0.00    0.0  15.0 289.8  2.0    0  0.00   76. 1005.     2 NAD-SFC NoSubs
11  9 27 270  9   82.8 -9.000 -9.000 -9.000  314. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0 291.8  2.0    0  0.00   67. 1005.     2 NAD-SFC NoSubs
11  9 27 270 10  116.3 -9.000 -9.000 -9.000  441. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 294.1  2.0    0  0.00   58. 1004.     2 NAD-SFC NoSubs
11  9 27 270 11  138.6 -9.000 -9.000 -9.000  536. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 296.0  2.0    0  0.00   52. 1004.     2 NAD-SFC NoSubs
11  9 27 270 12  148.9 -9.000 -9.000 -9.000  624. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 297.5  2.0    0  0.00   49. 1003.     2 NAD-SFC NoSubs
11  9 27 270 13  146.9  0.119  1.414  0.014  688.   98.     -1.0 0.2930  0.52  0.19  0.50  354.0  15.0 298.6  2.0    0  0.00   47. 1002.     2 NAD-SFC NoSubs
11  9 27 270 14  132.9  0.230  1.397  0.013  733.  264.     -8.1 0.2930  0.52  0.20  1.50  350.0  15.0 299.4  2.0    0  0.00   46. 1001.     2 NAD-SFC NoSubs
11  9 27 270 15  106.9  0.328  1.319  0.012  768.  450.    -29.4 0.2930  0.52  0.20  2.60  358.0  15.0 299.8  2.0    0  0.00   47. 1001.     2 NAD-SFC NoSubs
11  9 27 270 16   71.4  0.317  1.166  0.012  793.  429.    -39.8 0.2940  0.52  0.23  2.60   13.0  15.0 302.5  2.0    0  0.00   44. 1000.     2 NAD-SFC NoSubs
11  9 27 270 17   26.3  0.341  0.839  0.012  800.  479.   -135.0 0.2940  0.52  0.32  3.10   22.0  15.0 301.8  2.0    0  0.00   52. 1000.     2 NAD-SFC NoSubs
11  9 27 270 18  -27.0  0.305 -9.000 -9.000 -999.  404.     93.3 0.2940  0.52  0.62  3.10   21.0  15.0 300.8  2.0    0  0.00   55. 1000.     2 NAD-SFC NoSubs
11  9 27 270 19   -3.9  0.101 -9.000 -9.000 -999.  131.     23.7 0.2930  0.52  1.00  1.00  354.0  15.0 299.5  2.0    0  0.00   58. 1001.     2 NAD-SFC NoSubs
11  9 27 270 20  -13.0  0.173 -9.000 -9.000 -999.  173.     35.8 0.1750  0.52  1.00  2.10  243.0  15.0 298.2  2.0    0  0.00   63. 1001.     2 NAD-SFC NoSubs
11  9 27 270 21  -27.4  0.263 -9.000 -9.000 -999.  324.     59.6 0.1750  0.52  1.00  3.10  248.0  15.0 297.4  2.0    0  0.00   65. 1002.     2 NAD-SFC NoSubs
11  9 27 270 22   -7.1  0.129 -9.000 -9.000 -999.  123.     26.7 0.2160  0.52  1.00  1.50  291.0  15.0 296.8  2.0    0  0.00   66. 1002.     2 NAD-SFC NoSubs
11  9 27 270 23   -4.0  0.102 -9.000 -9.000 -999.   78.     23.7 0.2940  0.52  1.00  1.00    1.0  15.0 295.6  2.0    0  0.00   71. 1002.     2 NAD-SFC NoSubs
11  9 27 270 24   -4.0  0.102 -9.000 -9.000 -999.   78.     23.7 0.2940  0.52  1.00  1.00   28.0  15.0 294.8  2.0    0  0.00   74. 1002.     2 NAD-SFC NoSubs
11  9 28 271  1   -1.5  0.080 -9.000 -9.000 -999.   55.     31.2 0.2090  0.52  1.00  0.50   74.0  15.0 294.1  2.0    0  0.00   77. 1002.     2 NAD-SFC NoSubs
11  9 28 271  2   -1.5  0.080 -9.000 -9.000 -999.   54.     31.1 0.1950  0.52  1.00  0.50  228.0  15.0 293.5  2.0    0  0.00   78. 1002.     2 NAD-SFC NoSubs
11  9 28 271  3   -6.6  0.122 -9.000 -9.000 -999.  103.     24.8 0.1750  0.52  1.00  1.50  262.0  15.0 293.1  2.0    0  0.00   78. 1002.     2 NAD-SFC NoSubs
11  9 28 271  4  -14.3  0.183 -9.000 -9.000 -999.  188.     38.3 0.2160  0.52  1.00  2.10  281.0  15.0 293.1  2.0    0  0.00   76. 1002.     2 NAD-SFC NoSubs
11  9 28 271  5  -14.3  0.183 -9.000 -9.000 -999.  188.     38.3 0.2160  0.52  1.00  2.10  293.0  15.0 292.9  2.0    0  0.00   76. 1002.     2 NAD-SFC NoSubs
11  9 28 271  6   -7.2  0.129 -9.000 -9.000 -999.  111.     26.6 0.2160  0.52  1.00  1.50  297.0  15.0 292.8  2.0    0  0.00   76. 1002.     2 NAD-SFC NoSubs
11  9 28 271  7   -0.5  0.052 -9.000 -9.000 -999.   31.     23.4 0.2720  0.52  0.46  0.50  305.0  15.0 292.4  2.0    0  0.00   78. 1003.     2 NAD-SFC NoSubs
11  9 28 271  8   40.2 -9.000 -9.000 -9.000  113. -999. -99999.0 0.2235  0.52  0.27  0.00    0.0  15.0 292.8  2.0    0  0.00   77. 1003.     2 NAD-SFC NoSubs
11  9 28 271  9   83.2  0.103  0.804  0.012  224.   79.     -1.2 0.2160  0.52  0.22  0.50  276.0  15.0 295.1  2.0    0  0.00   69. 1004.     2 NAD-SFC NoSubs
11  9 28 271 10  116.7  0.103  1.038  0.011  343.   79.     -1.0 0.1750  0.52  0.20  0.50  264.0  15.0 297.2  2.0    0  0.00   62. 1004.     2 NAD-SFC NoSubs
11  9 28 271 11  139.1 -9.000 -9.000 -9.000  461. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 299.4  2.0    0  0.00   54. 1004.     2 NAD-SFC NoSubs
11  9 28 271 12  149.8 -9.000 -9.000 -9.000  573. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 301.6  2.0    0  0.00   43. 1002.     2 NAD-SFC NoSubs
11  9 28 271 13  147.9 -9.000 -9.000 -9.000  667. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 302.9  2.0    0  0.00   38. 1002.     2 NAD-SFC NoSubs
11  9 28 271 14  133.8 -9.000 -9.000 -9.000  753. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 303.6  2.0    0  0.00   37. 1001.     2 NAD-SFC NoSubs
11  9 28 271 15  107.8  0.173  1.350  0.007  816.  173.     -4.3 0.2940  0.52  0.20  1.00   19.0  15.0 303.9  2.0    0  0.00   37. 1000.     2 NAD-SFC NoSubs
11  9 28 271 16   70.8  0.270  1.192  0.007  853.  337.    -24.9 0.2940  0.52  0.23  2.10   26.0  15.0 303.6  2.0    0  0.00   45. 1000.     2 NAD-SFC NoSubs
11  9 28 271 17   25.6  0.341  0.853  0.007  866.  478.   -138.1 0.2940  0.52  0.32  3.10   28.0  15.0 302.8  2.0    0  0.00   51.  999.     2 NAD-SFC NoSubs
11  9 28 271 18   -7.7  0.140 -9.000 -9.000 -999.  168.     32.0 0.2940  0.52  0.64  1.50    9.0  15.0 301.5  2.0    0  0.00   55. 1000.     2 NAD-SFC NoSubs
11  9 28 271 19  -12.9  0.173 -9.000 -9.000 -999.  173.     35.9 0.1750  0.52  1.00  2.10  266.0  15.0 300.1  2.0    0  0.00   59. 1000.     2 NAD-SFC NoSubs
11  9 28 271 20  -20.2  0.218 -9.000 -9.000 -999.  245.     46.1 0.1750  0.52  1.00  2.60  269.0  15.0 299.5  2.0    0  0.00   60. 1001.     2 NAD-SFC NoSubs
11  9 28 271 21  -33.6  0.325 -9.000 -9.000 -999.  445.     91.5 0.2160  0.52  1.00  3.60  271.0  15.0 298.9  2.0    0  0.00   58. 1001.     2 NAD-SFC NoSubs
11  9 28 271 22  -22.1  0.231 -9.000 -9.000 -999.  270.     49.5 0.2160  0.52  1.00  2.60  288.0  15.0 297.6  2.0    0  0.00   58. 1001.     2 NAD-SFC NoSubs
11  9 28 271 23   -4.0  0.102 -9.000 -9.000 -999.   91.     23.7 0.2940  0.52  1.00  1.00    6.0  15.0 296.6  2.0    0  0.00   60. 1002.     2 NAD-SFC NoSubs
11  9 28 271 24   -7.6  0.133 -9.000 -9.000 -999.  117.     27.9 0.2470  0.52  1.00  1.50   53.0  15.0 295.8  2.0    0  0.00   63. 1001.     2 NAD-SFC NoSubs
11  9 29 272  1   -7.1  0.128 -9.000 -9.000 -999.  110.     26.4 0.2090  0.52  1.00  1.50   63.0  15.0 295.0  2.0    0  0.00   66. 1001.     2 NAD-SFC NoSubs
11  9 29 272  2   -3.7  0.099 -9.000 -9.000 -999.   75.     22.9 0.2470  0.52  1.00  1.00   58.0  15.0 294.2  2.0    0  0.00   68. 1001.     2 NAD-SFC NoSubs
11  9 29 272  3   -3.8  0.099 -9.000 -9.000 -999.   75.     22.9 0.2470  0.52  1.00  1.00   47.0  15.0 293.8  2.0    0  0.00   70. 1001.     2 NAD-SFC NoSubs
11  9 29 272  4   -3.8  0.099 -9.000 -9.000 -999.   75.     22.9 0.2470  0.52  1.00  1.00   59.0  15.0 293.2  2.0    0  0.00   71. 1001.     2 NAD-SFC NoSubs
11  9 29 272  5   -1.5  0.080 -9.000 -9.000 -999.   55.     31.3 0.2090  0.52  1.00  0.50   67.0  15.0 292.9  2.0    0  0.00   72. 1001.     2 NAD-SFC NoSubs
11  9 29 272  6   -1.5  0.081 -9.000 -9.000 -999.   55.     31.3 0.2130  0.52  1.00  0.50   96.0  15.0 292.6  2.0    0  0.00   73. 1002.     2 NAD-SFC NoSubs
11  9 29 272  7   -0.5  0.052 -9.000 -9.000 -999.   28.     23.0 0.2130  0.52  0.47  0.50   99.0  15.0 292.2  2.0    0  0.00   73. 1002.     2 NAD-SFC NoSubs
11  9 29 272  8   39.7 -9.000 -9.000 -9.000  103. -999. -99999.0 0.2235  0.52  0.28  0.00    0.0  15.0 293.2  2.0    0  0.00   71. 1002.     2 NAD-SFC NoSubs
11  9 29 272  9   83.0 -9.000 -9.000 -9.000  198. -999. -99999.0 0.2235  0.52  0.22  0.00    0.0  15.0 296.5  2.0    0  0.00   57. 1001.     2 NAD-SFC NoSubs
11  9 29 272 10  116.6 -9.000 -9.000 -9.000  351. -999. -99999.0 0.2235  0.52  0.20  0.00    0.0  15.0 298.9  2.0    0  0.00   52. 1001.     2 NAD-SFC NoSubs
11  9 29 272 11  139.0 -9.000 -9.000 -9.000  522. -999. -99999.0 0.2235  0.52  0.19  0.00    0.0  15.0 301.1  2.0    0  0.00   45. 1001.     2 NAD-SFC NoSubs
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11   9 29 272 12  149.6 -9.000 -9.000 -9.000  673. -999. -99999.0 0.2235  0.52  0.19  0.00   0.0  15.0 303.2  2.0    0  0.00   36.  1000.    2 NAD-SFC NoSubs
11   9 29 272 13  147.7  0.119  1.482  0.007  785.   99.     -1.0 0.2940  0.52  0.19  0.50   4.0  15.0 304.4  2.0    0  0.00   33.   999.    2 NAD-SFC NoSubs
11   9 29 272 14  133.6  0.178  1.486  0.006  875.  181.     -3.8 0.2940  0.52  0.20  1.00  19.0  15.0 305.2  2.0    0  0.00   31.   998.    2 NAD-SFC NoSubs
11   9 29 272 15  107.6  0.225  1.417  0.006  941.  256.     -9.4 0.2940  0.52  0.21  1.50  26.0  15.0 305.8  2.0    0  0.00   32.   997.    2 NAD-SFC NoSubs
11   9 29 272 16   70.4  0.270  1.248  0.006  982.  337.    -24.9 0.2940  0.52  0.23  2.10  26.0  15.0 305.2  2.0    0  0.00   39.   997.    2 NAD-SFC NoSubs
11   9 29 272 17   25.2  0.341  0.892  0.005  999.  477.   -139.3 0.2940  0.52  0.33  3.10  28.0  15.0 304.4  2.0    0  0.00   46.   997.    2 NAD-SFC NoSubs
11   9 29 272 18   -8.8 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  0.65  0.00   0.0  15.0 303.2  2.0    0  0.00   48.   997.    2 NAD-SFC NoSubs
11   9 29 272 19  -42.8  0.420 -9.000 -9.000 -999.  654.    154.2 0.2160  0.52  1.00  4.60 296.0  15.0 302.2  2.0    0  0.00   50.   998.    2 NAD-SFC NoSubs
11   9 29 272 20  -43.4  0.420 -9.000 -9.000 -999.  653.    152.1 0.2160  0.52  1.00  4.60 289.0  15.0 298.2  2.0    0  0.00   64.   999.    2 NAD-SFC NoSubs
11   9 29 272 21  -38.8  0.373 -9.000 -9.000 -999.  548.    118.8 0.2160  0.52  1.00  4.10 295.0  15.0 296.2  2.0    0  0.00   69.  1000.    2 NAD-SFC NoSubs
11   9 29 272 22  -36.2  0.347 -9.000 -9.000 -999.  491.    102.7 0.2720  0.52  1.00  3.60 312.0  15.0 295.4  2.0    0  0.00   69.  1000.    2 NAD-SFC NoSubs
11   9 29 272 23  -37.1  0.354 -9.000 -9.000 -999.  506.    107.1 0.2930  0.52  1.00  3.60 351.0  15.0 294.9  2.0    0  0.00   69.  1001.    2 NAD-SFC NoSubs
11   9 29 272 24  -48.1  0.458 -9.000 -9.000 -999.  743.    178.3 0.2940  0.52  1.00  4.60  12.0  15.0 294.2  2.0    0  0.00   71.  1001.    2 NAD-SFC NoSubs
11   9 30 273  1  -42.8  0.406 -9.000 -9.000 -999.  624.    140.0 0.2940  0.52  1.00  4.10  22.0  15.0 293.6  2.0    0  0.00   73.  1002.    2 NAD-SFC NoSubs
11   9 30 273  2  -42.8  0.406 -9.000 -9.000 -999.  621.    139.8 0.2940  0.52  1.00  4.10  25.0  15.0 293.1  2.0    0  0.00   75.  1002.    2 NAD-SFC NoSubs
11   9 30 273  3  -35.6  0.337 -9.000 -9.000 -999.  473.     96.3 0.2470  0.52  1.00  3.60  33.0  15.0 292.8  2.0    0  0.00   76.  1002.    2 NAD-SFC NoSubs
11   9 30 273  4  -35.7  0.337 -9.000 -9.000 -999.  470.     96.2 0.2470  0.52  1.00  3.60  35.0  15.0 292.4  2.0    0  0.00   77.  1002.    2 NAD-SFC NoSubs
11   9 30 273  5  -30.5  0.288 -9.000 -9.000 -999.  373.     70.2 0.2470  0.52  1.00  3.10  39.0  15.0 292.0  2.0    0  0.00   78.  1002.    2 NAD-SFC NoSubs
11   9 30 273  6  -30.6  0.288 -9.000 -9.000 -999.  372.     70.1 0.2470  0.52  1.00  3.10  43.0  15.0 291.8  2.0    0  0.00   78.  1002.    2 NAD-SFC NoSubs
11   9 30 273  7   -7.4  0.197 -9.000 -9.000 -999.  213.     91.1 0.2470  0.52  0.47  2.10  36.0  15.0 291.5  2.0    0  0.00   78.  1002.    2 NAD-SFC NoSubs
11   9 30 273  8   38.9  0.201  0.520  0.010  129.  217.    -18.7 0.2940  0.52  0.28  1.50  16.0  15.0 293.2  2.0    0  0.00   66.  1002.    2 NAD-SFC NoSubs
11   9 30 273  9   81.7  0.110  0.848  0.010  267.   91.     -1.4 0.2930  0.52  0.22  0.50 345.0  15.0 295.1  2.0    0  0.00   60.  1002.    2 NAD-SFC NoSubs
11   9 30 273 10  115.1 -9.000 -9.000 -9.000  388. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 297.2  2.0    0  0.00   54.  1001.    2 NAD-SFC NoSubs
11   9 30 273 11  137.4 -9.000 -9.000 -9.000  530. -999. -99999.0 0.2235  0.52  0.20  0.00   0.0  15.0 299.4  2.0    0  0.00   46.  1001.    2 NAD-SFC NoSubs
11   9 30 273 12  147.6  0.119  1.391  0.007  651.   99.     -1.0 0.2930  0.52  0.19  0.50 356.0  15.0 301.0  2.0    0  0.00   42.  1000.    2 NAD-SFC NoSubs
11   9 30 273 13  145.6  0.180  1.466  0.007  773.  183.     -3.6 0.2930  0.52  0.19  1.00 343.0  15.0 302.2  2.0    0  0.00   39.  1000.    2 NAD-SFC NoSubs
11   9 30 273 14  131.5  0.229  1.475  0.007  871.  263.     -8.2 0.2930  0.52  0.20  1.50 336.0  15.0 303.2  2.0    0  0.00   37.   999.    2 NAD-SFC NoSubs
11   9 30 273 15  105.4  0.327  1.406  0.006  941.  449.    -29.6 0.2930  0.52  0.21  2.60 352.0  15.0 303.8  2.0    0  0.00   36.   999.    2 NAD-SFC NoSubs
11   9 30 273 16   68.3  0.316  1.235  0.006  985.  426.    -41.1 0.2930  0.52  0.24  2.60 350.0  15.0 303.4  2.0    0  0.00   44.   999.    2 NAD-SFC NoSubs
11   9 30 273 17   24.2  0.427  0.879  0.007  999.  669.   -285.8 0.2720  0.52  0.33  4.10 328.0  15.0 302.2  2.0    0  0.00   50.   999.    3 NAD-SFC NoSubs
11   9 30 273 18  -41.8  0.449 -9.000 -9.000 -999.  721.    192.5 0.2720  0.52  0.67  4.60 324.0  15.0 299.6  2.0    0  0.00   56.  1000.    3 NAD-SFC NoSubs
11   9 30 273 19  -42.6  0.420 -9.000 -9.000 -999.  655.    155.4 0.2160  0.52  1.00  4.60 298.0  15.0 296.8  2.0    0  0.00   62.  1001.    3 NAD-SFC NoSubs
11   9 30 273 20  -42.9  0.420 -9.000 -9.000 -999.  654.    154.4 0.2160  0.52  1.00  4.60 297.0  15.0 294.9  2.0    0  0.00   65.  1001.    3 NAD-SFC NoSubs
11   9 30 273 21  -40.8  0.397 -9.000 -9.000 -999.  602.    137.4 0.2720  0.52  1.00  4.10 313.0  15.0 293.5  2.0    0  0.00   68.  1002.    3 NAD-SFC NoSubs
11   9 30 273 22  -35.7  0.347 -9.000 -9.000 -999.  492.    104.5 0.2720  0.52  1.00  3.60 320.0  15.0 292.6  2.0    0  0.00   70.  1002.    3 NAD-SFC NoSubs
11   9 30 273 23  -31.3  0.303 -9.000 -9.000 -999.  402.     79.6 0.2930  0.52  1.00  3.10 349.0  15.0 291.9  2.0    0  0.00   71.  1002.    3 NAD-SFC NoSubs
11   9 30 273 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.52  1.00  0.00   0.0  15.0 291.2  2.0    0  0.00   73.  1003.    3 NAD-SFC NoSubs
11  10  1 274  1  -36.8  0.354 -9.000 -9.000 -999.  507.    108.3 0.2930  0.72  1.00  3.60 351.0  15.0 290.5  2.0    0  0.00   76.  1003.    3 NAD-SFC NoSubs
11  10  1 274  2  -42.2  0.406 -9.000 -9.000 -999.  620.    141.6 0.2930  0.72  1.00  4.10 345.0  15.0 289.8  2.0    0  0.00   77.  1003.    3 NAD-SFC NoSubs
11  10  1 274  3  -36.1  0.347 -9.000 -9.000 -999.  492.    103.3 0.2720  0.72  1.00  3.60 326.0  15.0 289.4  2.0    0  0.00   78.  1003.    3 NAD-SFC NoSubs
11  10  1 274  4  -30.9  0.297 -9.000 -9.000 -999.  389.     75.4 0.2720  0.72  1.00  3.10 318.0  15.0 289.0  2.0    0  0.00   79.  1003.    3 NAD-SFC NoSubs
11  10  1 274  5  -24.7  0.246 -9.000 -9.000 -999.  294.     54.0 0.2720  0.72  1.00  2.60 326.0  15.0 288.8  2.0    0  0.00   79.  1003.    3 NAD-SFC NoSubs
11  10  1 274  6  -24.7  0.246 -9.000 -9.000 -999.  293.     54.0 0.2720  0.72  1.00  2.60 326.0  15.0 288.8  2.0    0  0.00   78.  1004.    3 NAD-SFC NoSubs
11  10  1 274  7   -5.1  0.145 -9.000 -9.000 -999.  137.     53.3 0.2930  0.72  0.48  1.50 340.0  15.0 288.8  2.0    0  0.00   77.  1005.    3 NAD-SFC NoSubs
11  10  1 274  8   47.0  0.201  0.600  0.011  164.  217.    -15.6 0.2720  0.72  0.28  1.50 322.0  15.0 290.2  2.0    0  0.00   67.  1005.    3 NAD-SFC NoSubs
11  10  1 274  9   98.6  0.110  0.937  0.010  299.   91.     -1.2 0.2720  0.72  0.22  0.50 324.0  15.0 292.0  2.0    0  0.00   60.  1005.    3 NAD-SFC NoSubs
11  10  1 274 10  138.7 -9.000 -9.000 -9.000  437. -999. -99999.0 0.2235  0.72  0.20  0.00   0.0  15.0 293.6  2.0    0  0.00   55.  1005.    3 NAD-SFC NoSubs
11  10  1 274 11  165.3 -9.000 -9.000 -9.000  576. -999. -99999.0 0.2235  0.72  0.20  0.00   0.0  15.0 295.2  2.0    0  0.00   51.  1004.    3 NAD-SFC NoSubs
11  10  1 274 12  177.3 -9.000 -9.000 -9.000  696. -999. -99999.0 0.2235  0.72  0.19  0.00   0.0  15.0 296.8  2.0    0  0.00   48.  1003.    2 NAD-SFC NoSubs
11  10  1 274 13  174.7 -9.000 -9.000 -9.000  800. -999. -99999.0 0.2235  0.72  0.19  0.00   0.0  15.0 298.0  2.0    0  0.00   46.  1003.    2 NAD-SFC NoSubs
11  10  1 274 14  157.2  0.118  1.572  0.008  884.   97.     -1.0 0.2720  0.72  0.20  0.50 318.0  15.0 299.0  2.0    0  0.00   45.  1002.    2 NAD-SFC NoSubs
11  10  1 274 15  125.1  0.177  1.490  0.008  945.  178.     -3.9 0.2930  0.72  0.21  1.00 342.0  15.0 299.5  2.0    0  0.00   45.  1001.    2 NAD-SFC NoSubs
11  10  1 274 16   79.8  0.217  1.301  0.008  985.  243.    -11.4 0.2940  0.72  0.24  1.50   7.0  15.0 299.6  2.0    0  0.00   47.  1001.    2 NAD-SFC NoSubs
11  10  1 274 17   24.9  0.248  0.887  0.008  998.  296.    -54.6 0.2940  0.72  0.34  2.10  27.0  15.0 299.2  2.0    0  0.00   52.  1001.    2 NAD-SFC NoSubs
11  10  1 274 18  -28.6  0.289 -9.000 -9.000 -999.  373.     75.4 0.2470  0.72  0.68  3.10  35.0  15.0 298.4  2.0    0  0.00   56.  1001.    2 NAD-SFC NoSubs
11  10  1 274 19  -16.4  0.200 -9.000 -9.000 -999.  218.     43.6 0.2940  0.72  1.00  2.10  26.0  15.0 297.4  2.0    0  0.00   60.  1002.    2 NAD-SFC NoSubs
11  10  1 274 20  -21.9  0.231 -9.000 -9.000 -999.  266.     50.2 0.2160  0.72  1.00  2.60 282.0  15.0 296.6  2.0    0  0.00   63.  1003.    3 NAD-SFC NoSubs
11  10  1 274 21  -44.2  0.420 -9.000 -9.000 -999.  653.    149.9 0.2160  0.72  1.00  4.60 283.0  15.0 294.1  2.0    0  0.00   73.  1004.    2 NAD-SFC NoSubs
11  10  1 274 22  -44.5  0.420 -9.000 -9.000 -999.  653.    148.9 0.2160  0.72  1.00  4.60 278.0  15.0 292.2  2.0    0  0.00   80.  1004.    2 NAD-SFC NoSubs
11  10  1 274 23  -38.6  0.373 -9.000 -9.000 -999.  548.    120.1 0.2160  0.72  1.00  4.10 293.0  15.0 291.5  2.0    0  0.00   82.  1005.    3 NAD-SFC NoSubs
11  10  1 274 24  -41.3  0.397 -9.000 -9.000 -999.  600.    136.0 0.2720  0.72  1.00  4.10 315.0  15.0 290.8  2.0    0  0.00   85.  1005.    3 NAD-SFC NoSubs
11  10  2 275  1  -30.9  0.297 -9.000 -9.000 -999.  394.     75.7 0.2720  0.72  1.00  3.10 317.0  15.0 290.2  2.0    0  0.00   87.  1005.    3 NAD-SFC NoSubs
11  10  2 275  2  -24.7  0.246 -9.000 -9.000 -999.  294.     54.1 0.2720  0.72  1.00  2.60 327.0  15.0 290.0  2.0    0  0.00   87.  1005.    3 NAD-SFC NoSubs
11  10  2 275  3  -16.4  0.200 -9.000 -9.000 -999.  215.     43.6 0.2930  0.72  1.00  2.10 336.0  15.0 289.9  2.0    0  0.00   87.  1005.    3 NAD-SFC NoSubs
11  10  2 275  4   -8.2  0.140 -9.000 -9.000 -999.  126.     29.8 0.2930  0.72  1.00  1.50 345.0  15.0 289.6  2.0    0  0.00   88.  1005.    3 NAD-SFC NoSubs
11  10  2 275  5   -4.0  0.102 -9.000 -9.000 -999.   78.     23.7 0.2930  0.72  1.00  1.00 342.0  15.0 289.4  2.0    0  0.00   89.  1005.    3 NAD-SFC NoSubs
11  10  2 275  6   -1.6  0.083 -9.000 -9.000 -999.   58.     31.8 0.2940  0.72  1.00  0.50   8.0  15.0 289.1  2.0    0  0.00   90.  1006.    3 NAD-SFC NoSubs
11  10  2 275  7   22.2 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  0.48  0.00   0.0  15.0 288.9  2.0    0  0.00   91.  1006.    3 NAD-SFC NoSubs
11  10  2 275  8   46.1  0.101  0.735  0.009  309.   77.     -2.0 0.2930  0.72  0.28  0.50 359.0  15.0 290.0  2.0    0  0.00   81.  1006.    3 NAD-SFC NoSubs
11  10  2 275  9   97.5 -9.000 -9.000 -9.000  429. -999. -99999.0 0.2235  0.72  0.22  0.00   0.0  15.0 291.4  2.0    0  0.00   73.  1006.    3 NAD-SFC NoSubs
11  10  2 275 10  137.5 -9.000 -9.000 -9.000  552. -999. -99999.0 0.2235  0.72  0.20  0.00   0.0  15.0 292.9  2.0    0  0.00   68.  1006.    3 NAD-SFC NoSubs
11  10  2 275 11  163.9 -9.000 -9.000 -9.000  674. -999. -99999.0 0.2235  0.72  0.20  0.00   0.0  15.0 294.5  2.0    0  0.00   63.  1006.    3 NAD-SFC NoSubs
11  10  2 275 12  175.9 -9.000 -9.000 -9.000  797. -999. -99999.0 0.2235  0.72  0.19  0.00   0.0  15.0 295.9  2.0    0  0.00   59.  1005.    3 NAD-SFC NoSubs
11  10  2 275 13  173.2 -9.000 -9.000 -9.000  903. -999. -99999.0 0.2235  0.72  0.19  0.00   0.0  15.0 297.2  2.0    0  0.00   55.  1004.    3 NAD-SFC NoSubs
11  10  2 275 14  155.8 -9.000 -9.000 -9.000  986. -999. -99999.0 0.2235  0.72  0.20  0.00   0.0  15.0 298.2  2.0    0  0.00   51.  1003.    3 NAD-SFC NoSubs
11  10  2 275 15  123.4  0.176  1.530  0.010 1039.  177.     -4.0 0.2930  0.72  0.21  1.00 355.0  15.0 298.9  2.0    0  0.00   48.  1002.    2 NAD-SFC NoSubs
11  10  2 275 16   77.9  0.217  1.326  0.010 1071.  242.    -11.6 0.2940  0.72  0.24  1.50  12.0  15.0 298.8  2.0    0  0.00   49.  1001.    2 NAD-SFC NoSubs
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11	10	2	275	17	23.1	0.247	0.887	0.010	1080.	294.	-57.9	0.2940	0.72	0.34	2.10	26.0	15.0	298.4	2.0	0	0.00	56.	1001.	2	NAD-SFC	NoSubs
11	10	2	275	18	-29.1	0.289	-9.000	-9.000	-999.	372.	73.9	0.2470	0.72	0.69	3.10	42.0	15.0	297.4	2.0	0	0.00	61.	1001.	2	NAD-SFC	NoSubs
11	10	2	275	19	-8.2	0.140	-9.000	-9.000	-999.	142.	29.8	0.2940	0.72	1.00	1.50	25.0	15.0	296.2	2.0	0	0.00	65.	1002.	2	NAD-SFC	NoSubs
11	10	2	275	20	-39.1	0.373	-9.000	-9.000	-999.	546.	118.1	0.2160	0.72	1.00	4.10	284.0	15.0	294.5	2.0	0	0.00	67.	1002.	2	NAD-SFC	NoSubs
11	10	2	275	21	-42.2	0.398	-9.000	-9.000	-999.	602.	133.3	0.1750	0.72	1.00	4.60	266.0	15.0	291.4	2.0	0	0.00	66.	1003.	2	NAD-SFC	NoSubs
11	10	2	275	22	-39.7	0.372	-9.000	-9.000	-999.	546.	116.3	0.2160	0.72	1.00	4.10	274.0	15.0	290.0	2.0	0	0.00	67.	1003.	2	NAD-SFC	NoSubs
11	10	2	275	23	-33.9	0.325	-9.000	-9.000	-999.	447.	90.8	0.2160	0.72	1.00	3.60	272.0	15.0	289.2	2.0	0	0.00	70.	1004.	3	NAD-SFC	NoSubs
11	10	2	275	24	-22.2	0.231	-9.000	-9.000	-999.	270.	49.4	0.2160	0.72	1.00	2.60	278.0	15.0	288.6	2.0	0	0.00	69.	1004.	3	NAD-SFC	NoSubs
11	10	3	276	1	-7.2	0.129	-9.000	-9.000	-999.	116.	26.7	0.2160	0.72	1.00	1.50	296.0	15.0	288.2	2.0	0	0.00	67.	1004.	3	NAD-SFC	NoSubs
11	10	3	276	2	-1.6	0.083	-9.000	-9.000	-999.	57.	31.7	0.2720	0.72	1.00	0.50	329.0	15.0	288.1	2.0	0	0.00	66.	1005.	3	NAD-SFC	NoSubs
11	10	3	276	3	-1.5	0.080	-9.000	-9.000	-999.	55.	31.2	0.2090	0.72	1.00	0.50	62.0	15.0	287.8	2.0	0	0.00	66.	1005.	3	NAD-SFC	NoSubs
11	10	3	276	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	287.6	2.0	0	0.00	64.	1005.	3	NAD-SFC	NoSubs
11	10	3	276	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	287.2	2.0	0	0.00	65.	1005.	2	NAD-SFC	NoSubs
11	10	3	276	6	-1.5	0.080	-9.000	-9.000	-999.	54.	31.2	0.1810	0.72	1.00	0.50	166.0	15.0	286.6	2.0	0	0.00	67.	1005.	2	NAD-SFC	NoSubs
11	10	3	276	7	-0.8	0.060	-9.000	-9.000	-999.	35.	25.0	0.1810	0.72	0.49	0.50	169.0	15.0	286.2	2.0	0	0.00	67.	1005.	2	NAD-SFC	NoSubs
11	10	3	276	8	43.1	-9.000	-9.000	-9.000	174.	-999.	-99999.0	0.2235	0.72	0.28	0.00	0.0	15.0	287.9	2.0	0	0.00	56.	1005.	2	NAD-SFC	NoSubs
11	10	3	276	9	95.1	-9.000	-9.000	-9.000	354.	-999.	-99999.0	0.2235	0.72	0.22	0.00	0.0	15.0	290.1	2.0	0	0.00	46.	1005.	2	NAD-SFC	NoSubs
11	10	3	276	10	135.5	-9.000	-9.000	-9.000	529.	-999.	-99999.0	0.2235	0.72	0.20	0.00	0.0	15.0	291.9	2.0	0	0.00	39.	1005.	2	NAD-SFC	NoSubs
11	10	3	276	11	162.2	-9.000	-9.000	-9.000	686.	-999.	-99999.0	0.2235	0.72	0.20	0.00	0.0	15.0	293.6	2.0	0	0.00	35.	1004.	2	NAD-SFC	NoSubs
11	10	3	276	12	174.3	-9.000	-9.000	-9.000	827.	-999.	-99999.0	0.2235	0.72	0.19	0.00	0.0	15.0	295.1	2.0	0	0.00	30.	1003.	2	NAD-SFC	NoSubs
11	10	3	276	13	171.3	-9.000	-9.000	-9.000	946.	-999.	-99999.0	0.2235	0.72	0.19	0.00	0.0	15.0	296.2	2.0	0	0.00	26.	1002.	2	NAD-SFC	NoSubs
11	10	3	276	14	153.4	0.178	1.637	0.010	1023.	180.	-3.3	0.2720	0.72	0.20	1.00	326.0	15.0	296.8	2.0	0	0.00	25.	1002.	2	NAD-SFC	NoSubs
11	10	3	276	15	120.9	0.227	1.538	0.010	1076.	260.	-8.6	0.2930	0.72	0.21	1.50	344.0	15.0	296.6	2.0	0	0.00	28.	1001.	2	NAD-SFC	NoSubs
11	10	3	276	16	75.2	0.318	1.325	0.010	1106.	431.	-38.3	0.2930	0.72	0.24	2.60	335.0	15.0	296.2	2.0	0	0.00	35.	1001.	2	NAD-SFC	NoSubs
11	10	3	276	17	20.0	0.377	0.854	0.010	1112.	556.	-239.6	0.2720	0.72	0.35	3.60	323.0	15.0	294.9	2.0	0	0.00	43.	1001.	2	NAD-SFC	NoSubs
11	10	3	276	18	-41.1	0.397	-9.000	-9.000	-999.	600.	136.1	0.2720	0.72	0.71	4.10	317.0	15.0	293.2	2.0	0	0.00	55.	1001.	2	NAD-SFC	NoSubs
11	10	3	276	19	-35.8	0.347	-9.000	-9.000	-999.	492.	104.3	0.2720	0.72	1.00	3.60	315.0	15.0	292.1	2.0	0	0.00	66.	1002.	3	NAD-SFC	NoSubs
11	10	3	276	20	-30.6	0.297	-9.000	-9.000	-999.	389.	76.1	0.2720	0.72	1.00	3.10	322.0	15.0	291.5	2.0	0	0.00	72.	1002.	3	NAD-SFC	NoSubs
11	10	3	276	21	-24.1	0.247	-9.000	-9.000	-999.	295.	55.4	0.2720	0.72	1.00	2.60	329.0	15.0	291.2	2.0	0	0.00	76.	1002.	4	NAD-SFC	NoSubs
11	10	3	276	22	-25.1	0.252	-9.000	-9.000	-999.	304.	57.1	0.2930	0.72	1.00	2.60	342.0	15.0	290.8	2.0	0	0.00	80.	1002.	4	NAD-SFC	NoSubs
11	10	3	276	23	-24.0	0.252	-9.000	-9.000	-999.	304.	59.8	0.2930	0.72	1.00	2.60	354.0	15.0	290.1	2.0	0	0.25	86.	1002.	5	NAD-SFC	NoSubs
11	10	3	276	24	-14.0	0.203	-9.000	-9.000	-999.	220.	53.0	0.2930	0.72	1.00	2.10	357.0	15.0	289.6	2.0	0	0.51	91.	1002.	8	NAD-SFC	NoSubs
11	10	4	277	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	289.4	2.0	0	0.51	95.	1002.	8	NAD-SFC	NoSubs
11	10	4	277	2	-3.3	0.095	-9.000	-9.000	-999.	71.	23.8	0.2720	0.72	1.00	1.00	313.0	15.0	289.2	2.0	0	1.02	97.	1002.	7	NAD-SFC	NoSubs
11	10	4	277	3	-19.1	0.232	-9.000	-9.000	-999.	269.	58.6	0.2160	0.72	1.00	2.60	290.0	15.0	289.2	2.0	0	1.78	98.	1002.	7	NAD-SFC	NoSubs
11	10	4	277	4	-24.3	0.328	-9.000	-9.000	-999.	450.	129.3	0.2160	0.72	1.00	3.60	286.0	15.0	289.0	2.0	0	1.02	96.	1002.	8	NAD-SFC	NoSubs
11	10	4	277	5	-34.8	0.422	-9.000	-9.000	-999.	658.	192.7	0.2160	0.72	1.00	4.60	288.0	15.0	288.4	2.0	0	0.25	90.	1002.	7	NAD-SFC	NoSubs
11	10	4	277	6	-35.9	0.373	-9.000	-9.000	-999.	549.	129.6	0.2160	0.72	1.00	4.10	277.0	15.0	287.4	2.0	0	0.00	89.	1003.	5	NAD-SFC	NoSubs
11	10	4	277	7	-16.1	0.380	-9.000	-9.000	-999.	561.	304.4	0.2160	0.72	0.49	4.10	274.0	15.0	286.9	2.0	0	0.00	88.	1003.	4	NAD-SFC	NoSubs
11	10	4	277	8	44.1	0.415	0.762	0.005	359.	641.	-144.8	0.2160	0.72	0.28	4.10	279.0	15.0	287.4	2.0	0	0.00	82.	1003.	4	NAD-SFC	NoSubs
11	10	4	277	9	94.5	0.274	1.132	0.005	550.	357.	-19.4	0.2720	0.72	0.22	2.10	304.0	15.0	288.2	2.0	0	0.00	75.	1003.	3	NAD-SFC	NoSubs
11	10	4	277	10	132.8	0.117	1.392	0.005	728.	121.	-1.1	0.2940	0.72	0.20	0.50	8.0	15.0	289.2	2.0	0	0.00	71.	1003.	4	NAD-SFC	NoSubs
11	10	4	277	11	160.3	-9.000	-9.000	-9.000	886.	-999.	-99999.0	0.2235	0.72	0.20	0.00	0.0	15.0	290.8	2.0	0	0.00	64.	1003.	3	NAD-SFC	NoSubs
11	10	4	277	12	170.0	-9.000	-9.000	-9.000	1038.	-999.	-99999.0	0.2235	0.72	0.19	0.00	0.0	15.0	292.2	2.0	0	0.00	57.	1002.	4	NAD-SFC	NoSubs
11	10	4	277	13	167.1	-9.000	-9.000	-9.000	1180.	-999.	-99999.0	0.2235	0.72	0.19	0.00	0.0	15.0	293.4	2.0	0	0.00	50.	1001.	4	NAD-SFC	NoSubs
11	10	4	277	14	151.3	-9.000	-9.000	-9.000	1295.	-999.	-99999.0	0.2235	0.72	0.20	0.00	0.0	15.0	294.2	2.0	0	0.00	44.	1001.	3	NAD-SFC	NoSubs
11	10	4	277	15	119.3	-9.000	-9.000	-9.000	1370.	-999.	-99999.0	0.2235	0.72	0.21	0.00	0.0	15.0	294.8	2.0	0	0.00	40.	1000.	3	NAD-SFC	NoSubs
11	10	4	277	16	74.3	0.162	1.431	0.006	1408.	157.	-5.1	0.2720	0.72	0.24	1.00	312.0	15.0	295.0	2.0	0	0.00	38.	1000.	3	NAD-SFC	NoSubs
11	10	4	277	17	20.2	0.186	0.930	0.005	1418.	192.	-28.3	0.2720	0.72	0.35	1.50	302.0	15.0	294.9	2.0	0	0.00	42.	1000.	3	NAD-SFC	NoSubs
11	10	4	277	18	-33.0	0.326	-9.000	-9.000	-999.	446.	93.3	0.2160	0.72	0.72	3.60	282.0	15.0	293.6	2.0	0	0.00	48.	1000.	3	NAD-SFC	NoSubs
11	10	4	277	19	-36.5	0.353	-9.000	-9.000	-999.	503.	107.7	0.1750	0.72	1.00	4.10	268.0	15.0	291.2	2.0	0	0.00	61.	1001.	3	NAD-SFC	NoSubs
11	10	4	277	20	-28.9	0.278	-9.000	-9.000	-999.	355.	66.5	0.2160	0.72	1.00	3.10	271.0	15.0	289.8	2.0	0	0.00	69.	1001.	3	NAD-SFC	NoSubs
11	10	4	277	21	-20.3	0.218	-9.000	-9.000	-999.	246.	45.8	0.1750	0.72	1.00	2.60	269.0	15.0	289.2	2.0	0	0.00	71.	1001.	3	NAD-SFC	NoSubs
11	10	4	277	22	-1.4	0.078	-9.000	-9.000	-999.	72.	30.8	0.1750	0.72	1.00	0.50	262.0	15.0	289.1	2.0	0	0.00	70.	1002.	3	NAD-SFC	NoSubs
11	10	4	277	23	-3.5	0.096	-9.000	-9.000	-999.	71.	22.3	0.2130	0.72	1.00	1.00	97.0	15.0	288.6	2.0	0	0.00	71.	1002.	3	NAD-SFC	NoSubs
11	10	4	277	24	-29.7	0.277	-9.000	-9.000	-999.	350.	63.9	0.2130	0.72	1.00	3.10	107.0	15.0	288.2	2.0	0	0.00	73.	1001.	2	NAD-SFC	NoSubs
11	10	5	278	1	-34.0	0.324	-9.000	-9.000	-999.	443.	89.5	0.2130	0.72	1.00	3.60	118.0	15.0	287.2	2.0	0	0.00	78.	1001.	3	NAD-SFC	NoSubs
11	10	5	278	2	-32.1	0.318	-9.000	-9.000	-999.	430.	89.3	0.1970	0.72	1.00	3.60	125.0	15.0	287.1	2.0	0	0.00	79.	1001.	4	NAD-SFC	NoSubs
11	10	5	278	3	-26.1	0.272	-9.000	-9.000	-999.	341.	68.8	0.1970	0.72	1.00	3.10	134.0	15.0	287.1	2.0	0	0.00	79.	1000.	5	NAD-SFC	NoSubs
11	10	5	278	4	-17.7	0.322	-9.000	-9.000	-999.	438.	168.2	0.1970	0.72	1.00	3.60	138.0	15.0	286.8	2.0	0	0.76	83.	1000.	10	NAD-SFC	NoSubs
11	10	5	278	5	-22.8	0.415	-9.000	-9.000	-999.	642.	279.9	0.1970	0.72	1.00	4.60	141.0	15.0	286.2	2.0	0	1.78	86.	999.	10	NAD-SFC	NoSubs
11	10	5	278	6	-28.5	0.520	-9.000	-9.000	-999.	898.	437.8	0.1970	0.72	1.00	5.70	130.0	15.0	286.2	2.0	0	1.02	86.	999.	10	NAD-SFC	NoSubs
11	10	5	278	7	-14.5	0.468	-9.000	-9.000	-999.	771.	627.3	0.1970	0.72	0.50	5.10	142.0	15.0	286.1	2.0	0	0.51	86.	998.	7	NAD-SFC	NoSubs
11	10	5	278	8	40.3	0.448	0.672	0.005	268.	720.	-198.6	0.1970	0.72	0.29	4.60	144.0	15.0	286.2	2.0	0	0.51	88.	998.	6	NAD-SFC	NoSubs
11	10	5	278	9	90.5	0.339	1.109	0.005	537.	482.	-38.4	0.1970	0.72	0.22	3.10	144.0	15.0	287.8	2.0	0	0.25	83.	999.	5	NAD-SFC	NoSubs
11	10	5	278	10	109.0	0.307	1.295	0.005	710.	410.	-23.7	0.2160	0.72	0.20	2.60	273.0	15.0	292.2	2.0	0	0.25	65.	998.	7	NAD-SFC	NoSubs
11	10	5	278	11	158.6	0.490	1.556	0.005	847.	823.	-66.0	0.2160	0.72	0.20	4.60	278.0	15.0	293.8	2.0	0	0.76	58.	998.	4	NAD-SFC	NoSubs
11	10	5	278	12	172.1	0.762	1.678	0.006	979.	1597.	-229.2	0.2160	0.72	0.19	7.70	271.0	15.0	295.0	2.0	0	0.25	43.	998.	3	NAD-SFC	NoSubs
11	10	5	278	13	168.7	0.674	1.760	0.005	1151.	1341.	-161.3	0.2160	0.72	0.19	6.70	282.0	15.0	295.4	2.0	0	0.00	38.	997.	3	NAD-SFC	NoSubs
11	10	5	278	14	150.6	0.671	1.758	0.005	1284.	1319.	-178.1	0.2160	0.72	0.20	6.70	280.0	15.0	295.5	2.0	0	0.00	35.	997.	3	NAD-SFC	NoSubs
11	10	5	278	15	118.1	0.620	1.658	0.005	1374.	1178.	-179.8	0.2160	0.72	0.21	6.20	281.0	15.0	295.2	2.0	0	0.00	36.	997.	3	NAD-SFC	NoSubs
11	10	5	278	16	72.6	0.407	1.426	0.005	1421.	670.	-82.7	0.1750	0.72	0.24	4.10	261.0	15.0	294.5	2.0	0	0.00	45.	997.	3	NAD-SFC	NoSubs
11	10	5	278	17	18.0	0.521	0.898	0.005	1429.	902.	-699.1	0.1750	0.72	0.36	5.70	264.0	15.0	292.9	2.0	0	0.00	51.	997.	3	NAD-SFC	NoSubs
11	10	5	278	18	-55.9	0.543	-9.000	-9.000	-999.	960.	255.1	0.1750	0.72	0.74	6.20	263.0	15.0	290.2	2.0	0	0.00	59.	998.	3	NAD-SFC	NoSubs
11	10	5	278	19	-51.8	0.497	-9.000	-9.000	-999.	845.	211.6	0.1750	0.72	1.00	5.70	258.0	15.0	288.4	2.0	0	0.00	68.	999.	3	NAD-SFC	NoSubs
11	10	5	278	20	-43.9	0.420	-9.000	-9.000	-999.	658.	150.3	0.2160	0.72	1.00	4.60	275.0	15.0	287.4	2.0	0	0.00	74.	1000.	3	NAD-SFC	NoSubs
11	10	5	278	21	-39.1	0.373	-9.000	-9.000	-999.	548.	118.0	0.2160	0.72	1.00	4.10	280.0	15.0	286.8	2.0	0	0.00	78.	1001.	3	NAD-SFC	NoSubs

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11 10  5 278 22  -34.2  0.325 -9.000 -9.000 -999.  447.    89.8  0.2160  0.72  1.00  3.60  295.0  15.0  286.1  2.0  0  0.00  80.  1002.  3 NAD-SFC NoSubs
11 10  5 278 23  -36.6  0.347 -9.000 -9.000 -999.  490.   101.8  0.2720  0.72  1.00  3.60  303.0  15.0  285.5  2.0  0  0.00  82.  1002.  3 NAD-SFC NoSubs
11 10  5 278 24  -35.4  0.347 -9.000 -9.000 -999.  491.   105.6  0.2720  0.72  1.00  3.60  304.0  15.0  284.9  2.0  0  0.00  83.  1003.  4 NAD-SFC NoSubs
11 10  6 279  1  -35.4  0.347 -9.000 -9.000 -999.  490.   105.4  0.2720  0.72  1.00  3.60  300.0  15.0  284.4  2.0  0  0.00  84.  1003.  4 NAD-SFC NoSubs
11 10  6 279  2  -33.8  0.347 -9.000 -9.000 -999.  491.   110.9  0.2720  0.72  1.00  3.60  301.0  15.0  284.0  2.0  0  0.00  86.  1003.  5 NAD-SFC NoSubs
11 10  6 279  3  -35.5  0.347 -9.000 -9.000 -999.  490.   105.1  0.2720  0.72  1.00  3.60  305.0  15.0  283.6  2.0  0  0.00  87.  1003.  4 NAD-SFC NoSubs
11 10  6 279  4  -35.6  0.347 -9.000 -9.000 -999.  490.   105.0  0.2720  0.72  1.00  3.60  311.0  15.0  283.2  2.0  0  0.00  88.  1004.  4 NAD-SFC NoSubs
11 10  6 279  5  -35.7  0.347 -9.000 -9.000 -999.  490.   104.8  0.2720  0.72  1.00  3.60  310.0  15.0  282.9  2.0  0  0.00  90.  1004.  4 NAD-SFC NoSubs
11 10  6 279  6  -35.7  0.347 -9.000 -9.000 -999.  490.   104.7  0.2720  0.72  1.00  3.60  312.0  15.0  282.5  2.0  0  0.00  92.  1005.  4 NAD-SFC NoSubs
11 10  6 279  7  -15.8  0.301 -9.000 -9.000 -999.  398.   154.8  0.2720  0.72  0.50  3.10  311.0  15.0  282.4  2.0  0  0.00  93.  1005.  4 NAD-SFC NoSubs
11 10  6 279  8   41.4  0.396  0.599  0.005  185.  598.  -134.6  0.2930  0.72  0.29  3.60  335.0  15.0  284.2  2.0  0  0.00  83.  1006.  4 NAD-SFC NoSubs
11 10  6 279  9   91.9  0.323  1.045  0.005  445.  444.   -33.0  0.2930  0.72  0.22  2.60  331.0  15.0  286.1  2.0  0  0.00  72.  1006.  3 NAD-SFC NoSubs
11 10  6 279 10  131.5  0.229  1.413  0.005  771.  268.    -8.2  0.2930  0.72  0.20  1.50  334.0  15.0  287.5  2.0  0  0.00  62.  1006.  3 NAD-SFC NoSubs
11 10  6 279 11  157.5  0.230  1.653  0.005 1030.  265.    -6.9  0.2720  0.72  0.20  1.50  316.0  15.0  288.8  2.0  0  0.00  53.  1005.  3 NAD-SFC NoSubs
11 10  6 279 12  168.9  0.232  1.786  0.005 1211.  269.    -6.7  0.2720  0.72  0.19  1.50  323.0  15.0  289.9  2.0  0  0.00  45.  1005.  3 NAD-SFC NoSubs
11 10  6 279 13  165.6  0.289  1.860  0.005 1395.  374.   -13.1  0.2720  0.72  0.19  2.10  324.0  15.0  290.8  2.0  0  0.00  39.  1004.  3 NAD-SFC NoSubs
11 10  6 279 14  147.6  0.332  1.893  0.005 1646.  460.   -22.2  0.2720  0.72  0.20  2.60  322.0  15.0  291.5  2.0  0  0.00  35.  1003.  3 NAD-SFC NoSubs
11 10  6 279 15  115.3  0.422  1.793  0.005 1791.  658.   -58.3  0.2930  0.72  0.21  3.60  332.0  15.0  291.8  2.0  0  0.00  33.  1003.  3 NAD-SFC NoSubs
11 10  6 279 16   70.0  0.454  1.533  0.005 1842.  734.  -119.6  0.2930  0.72  0.24  4.10  353.0  15.0  291.8  2.0  0  0.00  34.  1002.  3 NAD-SFC NoSubs
11 10  6 279 17   15.8  0.333  0.935  0.005 1849.  473.  -209.7  0.2940  0.72  0.36  3.10    8.0  15.0  290.8  2.0  0  0.00  48.  1003.  3 NAD-SFC NoSubs
11 10  6 279 18  -36.9  0.355 -9.000 -9.000 -999.  507.   108.3  0.2940  0.72  0.76  3.60    9.0  15.0  289.6  2.0  0  0.00  54.  1003.  3 NAD-SFC NoSubs
11 10  6 279 19  -37.1  0.354 -9.000 -9.000 -999.  506.   107.6  0.2930  0.72  1.00  3.60  355.0  15.0  288.8  2.0  0  0.00  58.  1004.  3 NAD-SFC NoSubs
11 10  6 279 20  -36.4  0.347 -9.000 -9.000 -999.  490.   102.6  0.2720  0.72  1.00  3.60  327.0  15.0  287.8  2.0  0  0.00  63.  1005.  3 NAD-SFC NoSubs
11 10  6 279 21  -36.6  0.347 -9.000 -9.000 -999.  490.   102.3  0.2720  0.72  1.00  3.60  323.0  15.0  286.8  2.0  0  0.00  69.  1006.  3 NAD-SFC NoSubs
11 10  6 279 22  -24.9  0.246 -9.000 -9.000 -999.  298.    53.7  0.2720  0.72  1.00  2.60  329.0  15.0  285.8  2.0  0  0.00  73.  1007.  3 NAD-SFC NoSubs
11 10  6 279 23   -3.9  0.101 -9.000 -9.000 -999.   96.    23.3  0.2720  0.72  1.00  1.00  326.0  15.0  285.2  2.0  0  0.00  73.  1007.  3 NAD-SFC NoSubs
11 10  6 279 24   -1.5  0.081 -9.000 -9.000 -999.   55.    31.4  0.2160  0.72  1.00  0.50  282.0  15.0  284.8  2.0  0  0.00  73.  1008.  3 NAD-SFC NoSubs
11 10  7 280  1   -7.0  0.126 -9.000 -9.000 -999.  107.    25.4  0.1950  0.72  1.00  1.50  239.0  15.0  284.2  2.0  0  0.00  74.  1008.  2 NAD-SFC NoSubs
11 10  7 280  2  -20.8  0.218 -9.000 -9.000 -999.  244.    44.6  0.1750  0.72  1.00  2.60  244.0  15.0  283.5  2.0  0  0.00  74.  1008.  2 NAD-SFC NoSubs
11 10  7 280  3  -20.9  0.218 -9.000 -9.000 -999.  244.    44.5  0.1750  0.72  1.00  2.60  256.0  15.0  282.8  2.0  0  0.00  73.  1009.  2 NAD-SFC NoSubs
11 10  7 280  4  -20.9  0.218 -9.000 -9.000 -999.  244.    44.5  0.1750  0.72  1.00  2.60  267.0  15.0  282.1  2.0  0  0.00  73.  1009.  2 NAD-SFC NoSubs
11 10  7 280  5  -22.9  0.230 -9.000 -9.000 -999.  265.    48.0  0.2160  0.72  1.00  2.60  281.0  15.0  281.5  2.0  0  0.00  73.  1009.  2 NAD-SFC NoSubs
11 10  7 280  6  -14.7  0.183 -9.000 -9.000 -999.  188.    37.3  0.2160  0.72  1.00  2.10  288.0  15.0  280.9  2.0  0  0.00  73.  1010.  2 NAD-SFC NoSubs
11 10  7 280  7  -11.8  0.186 -9.000 -9.000 -999.  193.    49.6  0.2160  0.72  0.51  2.10  286.0  15.0  280.5  2.0  0  0.00  74.  1011.  2 NAD-SFC NoSubs
11 10  7 280  8   38.0  0.197  0.554  0.007  161.  210.   -18.2  0.2720  0.72  0.29  1.50  327.0  15.0  282.4  2.0  0  0.00  65.  1012.  2 NAD-SFC NoSubs
11 10  7 280  9   89.5  0.111  0.926  0.006  320.   91.    -1.4  0.2930  0.72  0.22  0.50  340.0  15.0  284.2  2.0  0  0.00  56.  1012.  2 NAD-SFC NoSubs
11 10  7 280 10  129.5 -9.000 -9.000 -9.000  493. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  286.1  2.0  0  0.00  50.  1012.  2 NAD-SFC NoSubs
11 10  7 280 11  155.7 -9.000 -9.000 -9.000  682. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  287.8  2.0  0  0.00  43.  1012.  2 NAD-SFC NoSubs
11 10  7 280 12  167.3 -9.000 -9.000 -9.000  858. -999. -99999.0  0.2235  0.72  0.19  0.00    0.0  15.0  289.2  2.0  0  0.00  39.  1011.  2 NAD-SFC NoSubs
11 10  7 280 13  164.1 -9.000 -9.000 -9.000  997. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  290.6  2.0  0  0.00  34.  1010.  2 NAD-SFC NoSubs
11 10  7 280 14  145.9 -9.000 -9.000 -9.000 1090. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  291.6  2.0  0  0.00  30.  1009.  2 NAD-SFC NoSubs
11 10  7 280 15  113.3  0.174  1.538  0.006 1157.  174.    -4.2  0.2930  0.72  0.21  1.00  357.0  15.0  292.0  2.0  0  0.00  29.  1009.  2 NAD-SFC NoSubs
11 10  7 280 16   67.6  0.213  1.310  0.006 1196.  235.   -12.8  0.2940  0.72  0.25  1.50    8.0  15.0  292.4  2.0  0  0.00  35.  1008.  2 NAD-SFC NoSubs
11 10  7 280 17   13.3  0.237  0.763  0.006 1202.  277.   -90.5  0.2940  0.72  0.37  2.10   12.0  15.0  292.0  2.0  0  0.00  42.  1008.  2 NAD-SFC NoSubs
11 10  7 280 18  -26.0  0.252 -9.000 -9.000 -999.  303.    55.2  0.2940  0.72  0.77  2.60   17.0  15.0  291.2  2.0  0  0.00  44.  1008.  2 NAD-SFC NoSubs
11 10  7 280 19   -7.7  0.133 -9.000 -9.000 -999.  125.    27.7  0.2470  0.72  1.00  1.50   37.0  15.0  290.2  2.0  0  0.00  47.  1008.  2 NAD-SFC NoSubs
11 10  7 280 20   -1.5  0.081 -9.000 -9.000 -999.   56.    31.4  0.2090  0.72  1.00  0.50   89.0  15.0  289.1  2.0  0  0.00  52.  1008.  2 NAD-SFC NoSubs
11 10  7 280 21   -1.5  0.081 -9.000 -9.000 -999.   55.    31.3  0.1970  0.72  1.00  0.50  126.0  15.0  287.8  2.0  0  0.00  58.  1009.  2 NAD-SFC NoSubs
11 10  7 280 22   -3.5  0.094 -9.000 -9.000 -999.   70.    21.8  0.1810  0.72  1.00  1.00  155.0  15.0  286.6  2.0  0  0.00  63.  1009.  2 NAD-SFC NoSubs
11 10  7 280 23   -3.5  0.095 -9.000 -9.000 -999.   70.    21.8  0.1810  0.72  1.00  1.00  155.0  15.0  285.9  2.0  0  0.00  65.  1009.  2 NAD-SFC NoSubs
11 10  7 280 24   -3.6  0.096 -9.000 -9.000 -999.   71.    22.1  0.1970  0.72  1.00  1.00  141.0  15.0  285.2  2.0  0  0.00  66.  1009.  2 NAD-SFC NoSubs
11 10  8 281  1   -3.6  0.096 -9.000 -9.000 -999.   71.    22.1  0.1970  0.72  1.00  1.00  135.0  15.0  284.8  2.0  0  0.00  68.  1009.  2 NAD-SFC NoSubs
11 10  8 281  2   -1.5  0.081 -9.000 -9.000 -999.   55.    31.5  0.1970  0.72  1.00  0.50  139.0  15.0  284.2  2.0  0  0.00  70.  1009.  2 NAD-SFC NoSubs
11 10  8 281  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  283.8  2.0  0  0.00  74.  1009.  2 NAD-SFC NoSubs
11 10  8 281  4   -1.6  0.082 -9.000 -9.000 -999.   56.    31.7  0.2160  0.72  1.00  0.50  291.0  15.0  283.2  2.0  0  0.00  78.  1009.  2 NAD-SFC NoSubs
11 10  8 281  5   -3.7  0.098 -9.000 -9.000 -999.   73.    22.5  0.2160  0.72  1.00  1.00  286.0  15.0  282.8  2.0  0  0.00  82.  1009.  2 NAD-SFC NoSubs
11 10  8 281  6   -3.7  0.098 -9.000 -9.000 -999.   73.    22.5  0.2160  0.72  1.00  1.00  285.0  15.0  282.6  2.0  0  0.00  85.  1009.  2 NAD-SFC NoSubs
11 10  8 281  7   -2.5  0.085 -9.000 -9.000 -999.   59.    22.1  0.1750  0.72  0.51  1.00  261.0  15.0  282.4  2.0  0  0.00  89.  1010.  2 NAD-SFC NoSubs
11 10  8 281  8   37.5  0.150  0.472  0.006  101.  139.    -8.0  0.2720  0.72  0.29  1.00  329.0  15.0  284.2  2.0  0  0.00  84.  1010.  2 NAD-SFC NoSubs
11 10  8 281  9   89.0 -9.000 -9.000 -9.000  286. -999. -99999.0  0.2235  0.72  0.22  0.00    0.0  15.0  286.4  2.0  0  0.00  76.  1010.  2 NAD-SFC NoSubs
11 10  8 281 10  129.2 -9.000 -9.000 -9.000  544. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  288.6  2.0  0  0.00  65.  1010.  2 NAD-SFC NoSubs
11 10  8 281 11  155.4 -9.000 -9.000 -9.000  735. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  290.2  2.0  0  0.00  59.  1009.  2 NAD-SFC NoSubs
11 10  8 281 12  167.0 -9.000 -9.000 -9.000  849. -999. -99999.0  0.2235  0.72  0.19  0.00    0.0  15.0  291.8  2.0  0  0.00  53.  1008.  2 NAD-SFC NoSubs
11 10  8 281 13  163.7  0.119  1.628  0.010  947.   98.    -1.0  0.2720  0.72  0.20  0.50  324.0  15.0  293.0  2.0  0  0.00  49.  1007.  2 NAD-SFC NoSubs
11 10  8 281 14  145.5  0.232  1.601  0.009 1014.  268.    -7.7  0.2930  0.72  0.20  1.50  339.0  15.0  293.9  2.0  0  0.00  47.  1006.  2 NAD-SFC NoSubs
11 10  8 281 15  112.8  0.225  1.492  0.009 1059.  256.    -9.1  0.2930  0.72  0.21  1.50  353.0  15.0  294.4  2.0  0  0.00  46.  1006.  2 NAD-SFC NoSubs
11 10  8 281 16   67.0  0.315  1.265  0.009 1084.  425.   -41.9  0.2940  0.72  0.25  2.60    5.0  15.0  294.5  2.0  0  0.00  47.  1005.  2 NAD-SFC NoSubs
11 10  8 281 17   12.7 -9.000 -9.000 -9.000 1088. -999. -99999.0  0.2235  0.72  0.37  0.00    0.0  15.0  294.0  2.0  0  0.00  54.  1005.  2 NAD-SFC NoSubs
11 10  8 281 18  -25.8  0.252 -9.000 -9.000 -999.  303.    55.4  0.2940  0.72  1.00  2.60   14.0  15.0  293.1  2.0  0  0.00  56.  1005.  2 NAD-SFC NoSubs
11 10  8 281 19   -3.8  0.099 -9.000 -9.000 -999.   97.    22.9  0.2470  0.72  1.00  1.00   40.0  15.0  291.9  2.0  0  0.00  60.  1005.  2 NAD-SFC NoSubs
11 10  8 281 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  290.6  2.0  0  0.00  66.  1006.  2 NAD-SFC NoSubs
11 10  8 281 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  289.2  2.0  0  0.00  72.  1006.  2 NAD-SFC NoSubs
11 10  8 281 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  288.2  2.0  0  0.00  77.  1006.  2 NAD-SFC NoSubs
11 10  8 281 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  287.2  2.0  0  0.00  81.  1006.  2 NAD-SFC NoSubs
11 10  8 281 24   -1.7  0.085 -9.000 -9.000 -999.   59.    32.2  0.2930  0.72  1.00  0.50  331.0  15.0  286.6  2.0  0  0.00  83.  1006.  2 NAD-SFC NoSubs
11 10  9 282  1   -1.7  0.084 -9.000 -9.000 -999.   58.    32.1  0.2720  0.72  1.00  0.50  316.0  15.0  286.2  2.0  0  0.00  84.  1006.  2 NAD-SFC NoSubs
11 10  9 282  2   -4.0  0.101 -9.000 -9.000 -999.   77.    23.3  0.2720  0.72  1.00  1.00  303.0  15.0  285.9  2.0  0  0.00  84.  1007.  2 NAD-SFC NoSubs
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11 10  9 282  3  -16.2  0.195 -9.000 -9.000 -999.  207.     41.3  0.2720  0.72  1.00  2.10  304.0  15.0  285.4  2.0   0  0.00   85.  1007.   2 NAD-SFC NoSubs
11 10  9 282  4  -32.3  0.296 -9.000 -9.000 -999.  387.     72.2  0.2720  0.72  1.00  3.10  312.0  15.0  284.8  2.0   0  0.00   89.  1007.   2 NAD-SFC NoSubs
11 10  9 282  5  -25.3  0.246 -9.000 -9.000 -999.  293.     52.7  0.2720  0.72  1.00  2.60  307.0  15.0  284.1  2.0   0  0.00   90.  1007.   2 NAD-SFC NoSubs
11 10  9 282  6  -22.7  0.230 -9.000 -9.000 -999.  265.     48.2  0.2160  0.72  1.00  2.60  296.0  15.0  283.8  2.0   0  0.00   90.  1007.   2 NAD-SFC NoSubs
11 10  9 282  7  -12.0  0.186 -9.000 -9.000 -999.  193.     48.4  0.2160  0.72  0.52  2.10  293.0  15.0  283.5  2.0   0  0.00   89.  1007.   2 NAD-SFC NoSubs
11 10  9 282  8   36.8  0.296  0.488  0.005  114.  386.    -63.3  0.2720  0.72  0.29  2.60  328.0  15.0  285.2  2.0   0  0.00   76.  1008.   2 NAD-SFC NoSubs
11 10  9 282  9   88.2  0.168  0.827  0.007  230.  175.     -4.9  0.2930  0.72  0.22  1.00  333.0  15.0  287.1  2.0   0  0.00   66.  1007.   2 NAD-SFC NoSubs
11 10  9 282 10  128.3 -9.000 -9.000 -9.000  386. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  289.2  2.0   0  0.00   57.  1007.   2 NAD-SFC NoSubs
11 10  9 282 11  154.4 -9.000 -9.000 -9.000  668. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  290.8  2.0   0  0.00   52.  1006.   2 NAD-SFC NoSubs
11 10  9 282 12  166.1 -9.000 -9.000 -9.000  811. -999. -99999.0  0.2235  0.72  0.19  0.00    0.0  15.0  292.4  2.0   0  0.00   48.  1005.   2 NAD-SFC NoSubs
11 10  9 282 13  162.7  0.119  1.617  0.009  932.   98.     -1.0  0.2720  0.72  0.20  0.50  308.0  15.0  293.6  2.0   0  0.00   45.  1004.   2 NAD-SFC NoSubs
11 10  9 282 14  144.4  0.177  1.595  0.009 1008.  178.     -3.4  0.2720  0.72  0.20  1.00  322.0  15.0  294.5  2.0   0  0.00   43.  1004.   2 NAD-SFC NoSubs
11 10  9 282 15  111.7  0.225  1.487  0.008 1054.  256.     -9.1  0.2930  0.72  0.21  1.50  345.0  15.0  295.0  2.0   0  0.00   42.  1003.   2 NAD-SFC NoSubs
11 10  9 282 16   65.8  0.268  1.257  0.008 1079.  334.    -26.2  0.2930  0.72  0.25  2.10  355.0  15.0  295.1  2.0   0  0.00   42.  1003.   2 NAD-SFC NoSubs
11 10  9 282 17   11.7 -9.000 -9.000 -9.000 1084. -999. -99999.0  0.2235  0.72  0.38  0.00    0.0  15.0  294.8  2.0   0  0.00   48.  1002.   2 NAD-SFC NoSubs
11 10  9 282 18  -16.5  0.200 -9.000 -9.000 -999.  215.     43.3  0.2940  0.72  1.00  2.10   17.0  15.0  293.8  2.0   0  0.00   52.  1003.   2 NAD-SFC NoSubs
11 10  9 282 19   -3.8  0.099 -9.000 -9.000 -999.   80.     22.9  0.2470  0.72  1.00  1.00   31.0  15.0  292.4  2.0   0  0.00   57.  1003.   2 NAD-SFC NoSubs
11 10  9 282 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  291.1  2.0   0  0.00   63.  1003.   2 NAD-SFC NoSubs
11 10  9 282 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  289.8  2.0   0  0.00   69.  1003.   2 NAD-SFC NoSubs
11 10  9 282 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  288.5  2.0   0  0.00   75.  1004.   2 NAD-SFC NoSubs
11 10  9 282 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  287.5  2.0   0  0.00   78.  1004.   2 NAD-SFC NoSubs
11 10  9 282 24   -1.7  0.085 -9.000 -9.000 -999.   59.     32.2  0.2940  0.72  1.00  0.50   14.0  15.0  286.8  2.0   0  0.00   80.  1004.   2 NAD-SFC NoSubs
11 10 10 283  1   -1.5  0.081 -9.000 -9.000 -999.   56.     31.5  0.2090  0.72  1.00  0.50   89.0  15.0  286.2  2.0   0  0.00   81.  1004.   2 NAD-SFC NoSubs
11 10 10 283  2   -1.5  0.082 -9.000 -9.000 -999.   56.     31.6  0.2130  0.72  1.00  0.50   99.0  15.0  285.8  2.0   0  0.00   82.  1004.   2 NAD-SFC NoSubs
11 10 10 283  3   -1.7  0.084 -9.000 -9.000 -999.   58.     32.1  0.2720  0.72  1.00  0.50  314.0  15.0  285.2  2.0   0  0.00   82.  1004.   2 NAD-SFC NoSubs
11 10 10 283  4   -1.5  0.082 -9.000 -9.000 -999.   56.     31.7  0.2160  0.72  1.00  0.50  291.0  15.0  284.8  2.0   0  0.00   82.  1004.   2 NAD-SFC NoSubs
11 10 10 283  5   -1.5  0.082 -9.000 -9.000 -999.   56.     31.7  0.2160  0.72  1.00  0.50  289.0  15.0  284.5  2.0   0  0.00   82.  1004.   2 NAD-SFC NoSubs
11 10 10 283  6   -1.7  0.084 -9.000 -9.000 -999.   59.     32.1  0.2720  0.72  1.00  0.50  302.0  15.0  284.1  2.0   0  0.00   83.  1005.   2 NAD-SFC NoSubs
11 10 10 283  7   17.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.53  0.00    0.0  15.0  283.9  2.0   0  0.00   84.  1005.   2 NAD-SFC NoSubs
11 10 10 283  8   35.6 -9.000 -9.000 -9.000  124. -999. -99999.0  0.2235  0.72  0.30  0.00    0.0  15.0  284.2  2.0   0  0.00   84.  1005.   2 NAD-SFC NoSubs
11 10 10 283  9   87.0 -9.000 -9.000 -9.000  276. -999. -99999.0  0.2235  0.72  0.23  0.00    0.0  15.0  286.8  2.0   0  0.00   76.  1005.   2 NAD-SFC NoSubs
11 10 10 283 10  127.0 -9.000 -9.000 -9.000  520. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  288.6  2.0   0  0.00   70.  1005.   2 NAD-SFC NoSubs
11 10 10 283 11  153.2 -9.000 -9.000 -9.000  729. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  290.4  2.0   0  0.00   61.  1005.   2 NAD-SFC NoSubs
11 10 10 283 12  164.7 -9.000 -9.000 -9.000  840. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  292.0  2.0   0  0.00   53.  1004.   2 NAD-SFC NoSubs
11 10 10 283 13  161.2 -9.000 -9.000 -9.000  937. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  293.2  2.0   0  0.00   49.  1003.   2 NAD-SFC NoSubs
11 10 10 283 14  143.1 -9.000 -9.000 -9.000 1003. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  294.5  2.0   0  0.00   44.  1003.   2 NAD-SFC NoSubs
11 10 10 283 15  110.3 -9.000 -9.000 -9.000 1044. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  295.2  2.0   0  0.00   41.  1002.   2 NAD-SFC NoSubs
11 10 10 283 16   64.6  0.106  1.244  0.009 1067.   83.     -1.7  0.2930  0.72  0.25  0.50  344.0  15.0  295.5  2.0   0  0.00   40.  1002.   2 NAD-SFC NoSubs
11 10 10 283 17   10.6  0.133  0.682  0.009 1071.  116.    -19.9  0.2940  0.72  0.38  1.00   28.0  15.0  295.2  2.0   0  0.00   44.  1001.   2 NAD-SFC NoSubs
11 10 10 283 18  -15.2  0.190 -9.000 -9.000 -999.  199.     40.4  0.2470  0.72  1.00  2.10   52.0  15.0  294.2  2.0   0  0.00   50.  1002.   2 NAD-SFC NoSubs
11 10 10 283 19  -13.9  0.182 -9.000 -9.000 -999.  186.     38.4  0.2090  0.72  1.00  2.10   65.0  15.0  293.1  2.0   0  0.00   55.  1002.   3 NAD-SFC NoSubs
11 10 10 283 20   -3.5  0.096 -9.000 -9.000 -999.   74.     22.3  0.2130  0.72  1.00  1.00   90.0  15.0  291.9  2.0   0  0.00   60.  1003.   3 NAD-SFC NoSubs
11 10 10 283 21   -1.4  0.079 -9.000 -9.000 -999.   54.     31.0  0.1970  0.72  1.00  0.50  132.0  15.0  290.8  2.0   0  0.00   65.  1003.   3 NAD-SFC NoSubs
11 10 10 283 22   -3.4  0.095 -9.000 -9.000 -999.   70.     22.1  0.1970  0.72  1.00  1.00  125.0  15.0  289.8  2.0   0  0.00   69.  1003.   3 NAD-SFC NoSubs
11 10 10 283 23   -3.5  0.096 -9.000 -9.000 -999.   71.     22.3  0.2130  0.72  1.00  1.00  118.0  15.0  289.0  2.0   0  0.00   73.  1003.   3 NAD-SFC NoSubs
11 10 10 283 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  288.2  2.0   0  0.00   78.  1003.   3 NAD-SFC NoSubs
11 10 11 284  1   -3.6  0.096 -9.000 -9.000 -999.   72.     22.4  0.2160  0.72  1.00  1.00  294.0  15.0  287.8  2.0   0  0.00   83.  1004.   3 NAD-SFC NoSubs
11 10 11 284  2   -7.9  0.137 -9.000 -9.000 -999.  121.     28.9  0.2720  0.72  1.00  1.50  305.0  15.0  287.5  2.0   0  0.00   86.  1004.   3 NAD-SFC NoSubs
11 10 11 284  3   -7.9  0.137 -9.000 -9.000 -999.  121.     28.9  0.2720  0.72  1.00  1.50  309.0  15.0  287.2  2.0   0  0.00   89.  1004.   3 NAD-SFC NoSubs
11 10 11 284  4   -3.6  0.096 -9.000 -9.000 -999.   72.     22.4  0.2160  0.72  1.00  1.00  297.0  15.0  286.8  2.0   0  0.00   94.  1004.   3 NAD-SFC NoSubs
11 10 11 284  5   -1.4  0.079 -9.000 -9.000 -999.   53.     30.9  0.1750  0.72  1.00  0.50  264.0  15.0  286.2  2.0   0  0.00   98.  1004.   3 NAD-SFC NoSubs
11 10 11 284  6   -1.5  0.080 -9.000 -9.000 -999.   54.     31.1  0.1900  0.72  1.00  0.50  202.0  15.0  285.4  2.0   0  0.00  100.  1005.   3 NAD-SFC NoSubs
11 10 11 284  7   -5.3  0.125 -9.000 -9.000 -999.  107.     33.1  0.1900  0.72  0.53  1.50  187.0  15.0  285.1  2.0   0  0.00  100.  1005.   4 NAD-SFC NoSubs
11 10 11 284  8   36.9  0.181  0.498  0.007  120.  184.    -14.3  0.1810  0.72  0.30  1.50  170.0  15.0  285.8  2.0   0  0.00  100.  1006.   5 NAD-SFC NoSubs
11 10 11 284  9   79.9  0.196  0.858  0.006  284.  208.     -8.4  0.1810  0.72  0.23  1.50  179.0  15.0  287.6  2.0   0  0.00   96.  1006.   6 NAD-SFC NoSubs
11 10 11 284 10  122.5  0.105  1.185  0.007  488.   85.     -1.0  0.1900  0.72  0.20  0.50  181.0  15.0  291.0  2.0   0  0.00   80.  1006.   5 NAD-SFC NoSubs
11 10 11 284 11  151.8 -9.000 -9.000 -9.000  676. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  293.2  2.0   0  0.00   70.  1005.   4 NAD-SFC NoSubs
11 10 11 284 12  164.8 -9.000 -9.000 -9.000  810. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  294.8  2.0   0  0.00   65.  1004.   3 NAD-SFC NoSubs
11 10 11 284 13  161.5  0.118  1.610  0.007  925.   98.     -1.0  0.2720  0.72  0.20  0.50  309.0  15.0  296.2  2.0   0  0.00   62.  1003.   3 NAD-SFC NoSubs
11 10 11 284 14  143.4  0.228  1.597  0.007 1017.  261.     -7.4  0.2720  0.72  0.20  1.50  327.0  15.0  297.2  2.0   0  0.00   59.  1003.   3 NAD-SFC NoSubs
11 10 11 284 15  110.9  0.375  1.497  0.007 1083.  551.    -42.5  0.2930  0.72  0.21  3.10  340.0  15.0  297.8  2.0   0  0.00   58.  1002.   3 NAD-SFC NoSubs
11 10 11 284 16   65.4  0.360  1.270  0.007 1120.  519.    -63.9  0.2930  0.72  0.25  3.10  349.0  15.0  297.8  2.0   0  0.00   64.  1002.   3 NAD-SFC NoSubs
11 10 11 284 17   11.9  0.330  0.722  0.006 1126.  456.   -269.1  0.2940  0.72  0.39  3.10   10.0  15.0  297.2  2.0   0  0.00   71.  1002.   3 NAD-SFC NoSubs
11 10 11 284 18  -34.4  0.338 -9.000 -9.000 -999.  471.    100.1  0.2470  0.72  1.00  3.60   45.0  15.0  296.0  2.0   0  0.00   76.  1003.   3 NAD-SFC NoSubs
11 10 11 284 19  -21.7  0.229 -9.000 -9.000 -999.  269.     49.4  0.2090  0.72  1.00  2.60   64.0  15.0  294.9  2.0   0  0.00   80.  1003.   3 NAD-SFC NoSubs
11 10 11 284 20   -7.5  0.133 -9.000 -9.000 -999.  121.     28.2  0.2470  0.72  1.00  1.50   36.0  15.0  293.8  2.0   0  0.00   85.  1003.   3 NAD-SFC NoSubs
11 10 11 284 21   -8.2  0.140 -9.000 -9.000 -999.  125.     30.0  0.2930  0.72  1.00  1.50  339.0  15.0  293.0  2.0   0  0.00   89.  1004.   3 NAD-SFC NoSubs
11 10 11 284 22   -8.3  0.140 -9.000 -9.000 -999.  125.     29.6  0.2930  0.72  1.00  1.50  339.0  15.0  292.5  2.0   0  0.00   91.  1004.   2 NAD-SFC NoSubs
11 10 11 284 23   -8.3  0.140 -9.000 -9.000 -999.  125.     29.6  0.2930  0.72  1.00  1.50  338.0  15.0  292.2  2.0   0  0.00   93.  1004.   2 NAD-SFC NoSubs
11 10 11 284 24   -8.3  0.140 -9.000 -9.000 -999.  125.     29.5  0.2930  0.72  1.00  1.50  336.0  15.0  291.8  2.0   0  0.00   95.  1003.   2 NAD-SFC NoSubs
11 10 12 285  1   -8.3  0.140 -9.000 -9.000 -999.  125.     29.5  0.2930  0.72  1.00  1.50  330.0  15.0  291.5  2.0   0  0.00   96.  1003.   2 NAD-SFC NoSubs
11 10 12 285  2   -8.0  0.137 -9.000 -9.000 -999.  122.     28.7  0.2720  0.72  1.00  1.50  312.0  15.0  291.2  2.0   0  0.00   97.  1004.   2 NAD-SFC NoSubs
11 10 12 285  3   -8.0  0.137 -9.000 -9.000 -999.  122.     28.7  0.2720  0.72  1.00  1.50  316.0  15.0  290.8  2.0   0  0.00   99.  1004.   2 NAD-SFC NoSubs
11 10 12 285  4   -8.0  0.137 -9.000 -9.000 -999.  122.     28.7  0.2720  0.72  1.00  1.50  306.0  15.0  290.6  2.0   0  0.00  100.  1004.   2 NAD-SFC NoSubs
11 10 12 285  5  -16.0  0.195 -9.000 -9.000 -999.  207.     41.7  0.2720  0.72  1.00  2.10  308.0  15.0  290.4  2.0   0  0.00  100.  1004.   2 NAD-SFC NoSubs
11 10 12 285  6  -25.0  0.246 -9.000 -9.000 -999.  293.     53.4  0.2720  0.72  1.00  2.60  315.0  15.0  290.1  2.0   0  0.00  100.  1005.   2 NAD-SFC NoSubs
11 10 12 285  7  -18.3  0.249 -9.000 -9.000 -999.  298.     75.5  0.2720  0.72  0.54  2.60  310.0  15.0  289.8  2.0   0  0.00  100.  1005.   2 NAD-SFC NoSubs
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11 10 12 285  8   35.2  0.295  0.586  0.009  205.  385.    -65.3  0.2720  0.72  0.30   2.60  314.0  15.0  289.8  2.0   0  0.00   98.  1005.   2 NAD-SFC NoSubs
11 10 12 285  9   85.8  0.271  1.053  0.011  487.  339.    -20.8  0.2720  0.72  0.23   2.10  313.0  15.0  289.6  2.0   0  0.00   96.  1005.   2 NAD-SFC NoSubs
11 10 12 285 10  125.3 -9.000 -9.000 -9.000  669. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  290.2  2.0   0  0.00   90.  1005.   2 NAD-SFC NoSubs
11 10 12 285 11  151.8 -9.000 -9.000 -9.000  732. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  292.9  2.0   0  0.00   75.  1005.   2 NAD-SFC NoSubs
11 10 12 285 12  163.5 -9.000 -9.000 -9.000  796. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  295.0  2.0   0  0.00   65.  1003.   2 NAD-SFC NoSubs
11 10 12 285 13  160.2  0.120  1.563  0.014  854.  100.    -1.0  0.2930  0.72  0.20   0.50  342.0  15.0  296.6  2.0   0  0.00   56.  1002.   2 NAD-SFC NoSubs
11 10 12 285 14  141.8  0.179  1.529  0.014  902.  182.    -3.6  0.2930  0.72  0.20   1.00  347.0  15.0  297.8  2.0   0  0.00   51.  1002.   2 NAD-SFC NoSubs
11 10 12 285 15  108.9  0.282  1.419  0.014  938.  360.   -18.5  0.2940  0.72  0.21   2.10    5.0  15.0  298.2  2.0   0  0.00   50.  1001.   2 NAD-SFC NoSubs
11 10 12 285 16   63.7  0.314  1.197  0.014  959.  423.   -43.4  0.2940  0.72  0.26   2.60    3.0  15.0  299.8  2.0   0  0.00   50.  1000.   2 NAD-SFC NoSubs
11 10 12 285 17   10.1  0.234  0.649  0.014  962.  274.  -112.6  0.2940  0.72  0.39   2.10   13.0  15.0  299.5  2.0   0  0.00   55.  1000.   2 NAD-SFC NoSubs
11 10 12 285 18  -16.4  0.200 -9.000 -9.000 -999.  215.   43.7  0.2940  0.72  1.00   2.10   16.0  15.0  298.4  2.0   0  0.00   58.  1000.   2 NAD-SFC NoSubs
11 10 12 285 19   -1.6  0.083 -9.000 -9.000 -999.   67.   31.8  0.2940  0.72  1.00   0.50    9.0  15.0  297.2  2.0   0  0.00   63.  1000.   2 NAD-SFC NoSubs
11 10 12 285 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  295.8  2.0   0  0.00   69.  1000.   2 NAD-SFC NoSubs
11 10 12 285 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  294.8  2.0   0  0.00   74.  1000.   2 NAD-SFC NoSubs
11 10 12 285 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  293.8  2.0   0  0.00   78.  1000.   2 NAD-SFC NoSubs
11 10 12 285 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  292.9  2.0   0  0.00   83.  1000.   2 NAD-SFC NoSubs
11 10 12 285 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  292.2  2.0   0  0.00   86.  1000.   2 NAD-SFC NoSubs
11 10 13 286  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  291.8  2.0   0  0.00   88.  1000.   2 NAD-SFC NoSubs
11 10 13 286  2   -1.6  0.083 -9.000 -9.000 -999.   58.   31.9  0.2720  0.72  1.00   0.50  302.0  15.0  291.2  2.0   0  0.00   89.  1000.   2 NAD-SFC NoSubs
11 10 13 286  3   -3.9  0.101 -9.000 -9.000 -999.   77.   23.3  0.2720  0.72  1.00   1.00  302.0  15.0  290.9  2.0   0  0.00   88.  1000.   2 NAD-SFC NoSubs
11 10 13 286  4   -3.9  0.101 -9.000 -9.000 -999.   77.   23.3  0.2720  0.72  1.00   1.00  300.0  15.0  290.5  2.0   0  0.00   88.  1000.   2 NAD-SFC NoSubs
11 10 13 286  5   -3.9  0.101 -9.000 -9.000 -999.   77.   23.3  0.2720  0.72  1.00   1.00  308.0  15.0  290.2  2.0   0  0.00   87.  1000.   2 NAD-SFC NoSubs
11 10 13 286  6   -3.9  0.101 -9.000 -9.000 -999.   77.   23.3  0.2720  0.72  1.00   1.00  307.0  15.0  289.9  2.0   0  0.00   86.  1000.   2 NAD-SFC NoSubs
11 10 13 286  7   -3.1  0.094 -9.000 -9.000 -999.   69.   24.2  0.2720  0.72  0.55   1.00  311.0  15.0  289.6  2.0   0  0.00   86.  1001.   2 NAD-SFC NoSubs
11 10 13 286  8   34.7  0.096  0.440  0.014   88.   72.   -2.3  0.2720  0.72  0.30   0.50  324.0  15.0  290.9  2.0   0  0.00   79.  1001.   2 NAD-SFC NoSubs
11 10 13 286  9   86.0 -9.000 -9.000 -9.000  241. -999. -99999.0  0.2235  0.72  0.23   0.00    0.0  15.0  293.1  2.0   0  0.00   69.  1001.   2 NAD-SFC NoSubs
11 10 13 286 10  126.1 -9.000 -9.000 -9.000  399. -999. -99999.0  0.2235  0.72  0.21   0.00    0.0  15.0  295.2  2.0   0  0.00   62.  1000.   2 NAD-SFC NoSubs
11 10 13 286 11  152.7 -9.000 -9.000 -9.000  496. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  297.6  2.0   0  0.00   55.   999.   2 NAD-SFC NoSubs
11 10 13 286 12  164.5 -9.000 -9.000 -9.000  585. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  299.8  2.0   0  0.00   46.   998.   2 NAD-SFC NoSubs
11 10 13 286 13  161.2 -9.000 -9.000 -9.000  660. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  301.1  2.0   0  0.00   42.   997.   2 NAD-SFC NoSubs
11 10 13 286 14  142.8 -9.000 -9.000 -9.000  727. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  302.0  2.0   0  0.00   40.   997.   2 NAD-SFC NoSubs
11 10 13 286 15  109.9  0.225  1.338  0.010  775.  256.    -9.2  0.2940  0.72  0.21   1.50    8.0  15.0  302.4  2.0   0  0.00   40.   996.   2 NAD-SFC NoSubs
11 10 13 286 16   63.7  0.212  1.128  0.010  801.  234.   -13.2  0.2940  0.72  0.26   1.50   16.0  15.0  302.2  2.0   0  0.00   46.   996.   2 NAD-SFC NoSubs
11 10 13 286 17   10.1  0.234  0.612  0.010  805.  271.  -112.3  0.2940  0.72  0.40   2.10   24.0  15.0  301.8  2.0   0  0.00   50.   995.   2 NAD-SFC NoSubs
11 10 13 286 18   -8.1  0.140 -9.000 -9.000 -999.  129.   30.0  0.2940  0.72  1.00   1.50    6.0  15.0  300.2  2.0   0  0.00   55.   996.   2 NAD-SFC NoSubs
11 10 13 286 19   -1.4  0.078 -9.000 -9.000 -999.   53.   30.7  0.1750  0.72  1.00   0.50  266.0  15.0  298.8  2.0   0  0.00   60.   996.   2 NAD-SFC NoSubs
11 10 13 286 20   -1.4  0.079 -9.000 -9.000 -999.   54.   31.0  0.1950  0.72  1.00   0.50  235.0  15.0  297.2  2.0   0  0.00   66.   996.   2 NAD-SFC NoSubs
11 10 13 286 21   -1.4  0.079 -9.000 -9.000 -999.   54.   31.0  0.1950  0.72  1.00   0.50  221.0  15.0  296.1  2.0   0  0.00   71.   996.   2 NAD-SFC NoSubs
11 10 13 286 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  295.1  2.0   0  0.00   74.   996.   2 NAD-SFC NoSubs
11 10 13 286 23   -1.5  0.082 -9.000 -9.000 -999.   56.   31.6  0.2470  0.72  1.00   0.50   50.0  15.0  294.2  2.0   0  0.00   78.   997.   2 NAD-SFC NoSubs
11 10 13 286 24   -3.7  0.099 -9.000 -9.000 -999.   75.   22.9  0.2470  0.72  1.00   1.00   54.0  15.0  293.5  2.0   0  0.00   81.   996.   2 NAD-SFC NoSubs
11 10 14 287  1   -3.7  0.099 -9.000 -9.000 -999.   75.   22.9  0.2470  0.72  1.00   1.00   45.0  15.0  292.9  2.0   0  0.00   81.   996.   2 NAD-SFC NoSubs
11 10 14 287  2   -1.6  0.084 -9.000 -9.000 -999.   58.   32.0  0.2930  0.72  1.00   0.50  341.0  15.0  292.5  2.0   0  0.00   82.   996.   2 NAD-SFC NoSubs
11 10 14 287  3   -1.5  0.081 -9.000 -9.000 -999.   55.   31.4  0.2160  0.72  1.00   0.50  292.0  15.0  292.0  2.0   0  0.00   83.   996.   2 NAD-SFC NoSubs
11 10 14 287  4   -3.6  0.097 -9.000 -9.000 -999.   72.   22.4  0.2160  0.72  1.00   1.00  284.0  15.0  291.5  2.0   0  0.00   85.   997.   2 NAD-SFC NoSubs
11 10 14 287  5   -7.2  0.129 -9.000 -9.000 -999.  111.   26.5  0.2160  0.72  1.00   1.50  291.0  15.0  291.2  2.0   0  0.00   86.   997.   2 NAD-SFC NoSubs
11 10 14 287  6   -7.2  0.129 -9.000 -9.000 -999.  111.   26.5  0.2160  0.72  1.00   1.50  299.0  15.0  290.9  2.0   0  0.00   87.   997.   2 NAD-SFC NoSubs
11 10 14 287  7   -6.8  0.138 -9.000 -9.000 -999.  122.   34.0  0.2720  0.72  0.55   1.50  305.0  15.0  290.6  2.0   0  0.00   88.   997.   2 NAD-SFC NoSubs
11 10 14 287  8   33.6  0.148  0.428  0.013   83.  136.   -8.6  0.2720  0.72  0.30   1.00  300.0  15.0  290.8  2.0   0  0.00   87.   997.   2 NAD-SFC NoSubs
11 10 14 287  9   84.8  0.165  0.774  0.012  194.  161.   -4.7  0.2720  0.72  0.23   1.00  328.0  15.0  292.8  2.0   0  0.00   80.   998.   2 NAD-SFC NoSubs
11 10 14 287 10  124.7  0.114  1.087  0.012  366.   93.   -1.1  0.2720  0.72  0.21   0.50  324.0  15.0  294.4  2.0   0  0.00   74.   998.   2 NAD-SFC NoSubs
11 10 14 287 11  150.8  0.119  1.281  0.011  496.   99.   -1.0  0.2930  0.72  0.20   0.50  335.0  15.0  296.2  2.0   0  0.00   68.   997.   2 NAD-SFC NoSubs
11 10 14 287 12  162.3  0.121  1.402  0.010  604.  101.   -1.0  0.2930  0.72  0.20   0.50  342.0  15.0  297.8  2.0   0  0.00   60.   997.   2 NAD-SFC NoSubs
11 10 14 287 13  158.7  0.120  1.459  0.009  696.  100.   -1.0  0.2930  0.72  0.20   0.50  353.0  15.0  298.9  2.0   0  0.00   56.   996.   2 NAD-SFC NoSubs
11 10 14 287 14  140.1  0.231  1.447  0.008  769.  267.   -7.8  0.2940  0.72  0.20   1.50    5.0  15.0  299.5  2.0   0  0.00   55.   996.   2 NAD-SFC NoSubs
11 10 14 287 15  106.9 -9.000 -9.000 -9.000  820. -999. -99999.0  0.2235  0.72  0.22   0.00    0.0  15.0  299.6  2.0   0  0.00   59.   996.   2 NAD-SFC NoSubs
11 10 14 287 16   60.6  0.267  1.131  0.007  847.  331.   -27.8  0.2940  0.72  0.26   2.10   10.0  15.0  299.2  2.0   0  0.00   62.   996.   2 NAD-SFC NoSubs
11 10 14 287 17    7.1  0.230  0.554  0.007  849.  265.  -151.4  0.2940  0.72  0.41   2.10   22.0  15.0  298.5  2.0   0  0.00   64.   996.   2 NAD-SFC NoSubs
11 10 14 287 18   -3.9  0.102 -9.000 -9.000 -999.   90.   23.7  0.2940  0.72  1.00   1.00   29.0  15.0  297.6  2.0   0  0.00   67.   996.   2 NAD-SFC NoSubs
11 10 14 287 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  296.8  2.0   0  0.00   71.   997.   2 NAD-SFC NoSubs
11 10 14 287 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  295.9  2.0   0  0.00   75.   997.   2 NAD-SFC NoSubs
11 10 14 287 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  295.4  2.0   0  0.00   77.   997.   2 NAD-SFC NoSubs
11 10 14 287 22   -3.9  0.100 -9.000 -9.000 -999.   76.   23.3  0.2720  0.72  1.00   1.00  319.0  15.0  295.1  2.0   0  0.00   78.   998.   2 NAD-SFC NoSubs
11 10 14 287 23   -8.2  0.140 -9.000 -9.000 -999.  125.   29.7  0.2930  0.72  1.00   1.50  351.0  15.0  294.8  2.0   0  0.00   77.   998.   2 NAD-SFC NoSubs
11 10 14 287 24  -25.6  0.252 -9.000 -9.000 -999.  303.   55.5  0.2940  0.72  1.00   2.60   14.0  15.0  294.4  2.0   0  0.00   75.   998.   2 NAD-SFC NoSubs
11 10 15 288  1  -37.1  0.355 -9.000 -9.000 -999.  507.  107.0  0.2940  0.72  1.00   3.60   16.0  15.0  294.1  2.0   0  0.00   73.   998.   2 NAD-SFC NoSubs
11 10 15 288  2  -40.5  0.386 -9.000 -9.000 -999.  576.  126.7  0.2470  0.72  1.00   4.10   32.0  15.0  293.6  2.0   0  0.00   73.   999.   2 NAD-SFC NoSubs
11 10 15 288  3  -40.6  0.386 -9.000 -9.000 -999.  576.  126.4  0.2470  0.72  1.00   4.10   41.0  15.0  292.9  2.0   0  0.00   73.   999.   2 NAD-SFC NoSubs
11 10 15 288  4  -35.5  0.337 -9.000 -9.000 -999.  472.   96.2  0.2470  0.72  1.00   3.60   44.0  15.0  292.4  2.0   0  0.00   73.   999.   2 NAD-SFC NoSubs
11 10 15 288  5  -30.4  0.288 -9.000 -9.000 -999.  373.   70.2  0.2470  0.72  1.00   3.10   41.0  15.0  292.1  2.0   0  0.00   73.   999.   2 NAD-SFC NoSubs
11 10 15 288  6  -23.7  0.239 -9.000 -9.000 -999.  282.   51.5  0.2470  0.72  1.00   2.60   37.0  15.0  291.8  2.0   0  0.00   73.   999.   2 NAD-SFC NoSubs
11 10 15 288  7   -6.6  0.134 -9.000 -9.000 -999.  123.   32.4  0.2470  0.72  0.56   1.50   45.0  15.0  291.4  2.0   0  0.00   73.  1000.   2 NAD-SFC NoSubs
11 10 15 288  8   33.1  0.191  0.446  0.010   95.  200.   -18.7  0.2470  0.72  0.31   1.50   31.0  15.0  292.0  2.0   0  0.00   71.  1000.   2 NAD-SFC NoSubs
11 10 15 288  9   84.5  0.218  0.798  0.009  214.  245.   -11.0  0.2930  0.72  0.23   1.50  358.0  15.0  294.5  2.0   0  0.00   61.  1000.   2 NAD-SFC NoSubs
11 10 15 288 10  124.5  0.177  1.076  0.008  357.  178.    -3.9  0.2940  0.72  0.21   1.00    1.0  15.0  296.6  2.0   0  0.00   54.  1000.   2 NAD-SFC NoSubs
11 10 15 288 11  150.9  0.180  1.303  0.007  523.  184.    -3.5  0.2930  0.72  0.20   1.00  355.0  15.0  298.8  2.0   0  0.00   46.  1000.   2 NAD-SFC NoSubs
11 10 15 288 12  162.3  0.182  1.454  0.005  675.  187.    -3.3  0.2930  0.72  0.20   1.00  344.0  15.0  300.1  2.0   0  0.00   43.   999.   2 NAD-SFC NoSubs
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11 10 15 288 13  158.7  0.182  1.540  0.005  820.  186.     -3.4  0.2930  0.72  0.20  1.00  348.0  15.0  301.2  2.0  0  0.00  40.   999.  2 NAD-SFC NoSubs
11 10 15 288 14  140.1  0.231  1.541  0.005  931.  267.     -7.8  0.2940  0.72  0.20  1.50    4.0  15.0  302.0  2.0  0  0.00  37.   998.  2 NAD-SFC NoSubs
11 10 15 288 15  107.1 -9.000 -9.000 -9.000 1030. -999. -99999.0  0.2235  0.72  0.22  0.00    0.0  15.0  302.4  2.0  0  0.00  37.   998.  2 NAD-SFC NoSubs
11 10 15 288 16   60.8  0.313  1.231  0.005 1094.  420.    -44.9  0.2940  0.72  0.26  2.60   12.0  15.0  302.0  2.0  0  0.00  45.   998.  2 NAD-SFC NoSubs
11 10 15 288 17    7.4  0.325  0.611  0.005 1099.  445.   -415.5  0.2940  0.72  0.41  3.10    9.0  15.0  301.2  2.0  0  0.00  50.   998.  2 NAD-SFC NoSubs
11 10 15 288 18  -31.2  0.304 -9.000 -9.000 -999.  402.     80.0  0.2940  0.72  1.00  3.10    9.0  15.0  300.2  2.0  0  0.00  52.   999.  2 NAD-SFC NoSubs
11 10 15 288 19  -35.7  0.347 -9.000 -9.000 -999.  490.    104.1  0.2720  0.72  1.00  3.60  314.0  15.0  299.4  2.0  0  0.00  53.   999.  2 NAD-SFC NoSubs
11 10 15 288 20  -38.8  0.373 -9.000 -9.000 -999.  546.    118.8  0.2160  0.72  1.00  4.10  288.0  15.0  296.1  2.0  0  0.00  67.  1000.  2 NAD-SFC NoSubs
11 10 15 288 21  -39.1  0.372 -9.000 -9.000 -999.  546.    117.9  0.2160  0.72  1.00  4.10  280.0  15.0  293.9  2.0  0  0.00  77.  1001.  2 NAD-SFC NoSubs
11 10 15 288 22  -39.3  0.372 -9.000 -9.000 -999.  546.    117.4  0.2160  0.72  1.00  4.10  292.0  15.0  292.8  2.0  0  0.00  80.  1002.  2 NAD-SFC NoSubs
11 10 15 288 23  -31.4  0.296 -9.000 -9.000 -999.  391.     74.2  0.2720  0.72  1.00  3.10  303.0  15.0  292.1  2.0  0  0.00  82.  1002.  2 NAD-SFC NoSubs
11 10 15 288 24  -25.5  0.252 -9.000 -9.000 -999.  304.     56.0  0.2930  0.72  1.00  2.60  336.0  15.0  291.8  2.0  0  0.00  83.  1003.  3 NAD-SFC NoSubs
11 10 16 289  1  -31.4  0.304 -9.000 -9.000 -999.  401.     79.6  0.2940  0.72  1.00  3.10   23.0  15.0  291.2  2.0  0  0.00  84.  1003.  3 NAD-SFC NoSubs
11 10 16 289  2  -35.0  0.337 -9.000 -9.000 -999.  470.     98.2  0.2470  0.72  1.00  3.60   43.0  15.0  290.8  2.0  0  0.00  87.  1004.  3 NAD-SFC NoSubs
11 10 16 289  3  -30.0  0.289 -9.000 -9.000 -999.  373.     71.7  0.2470  0.72  1.00  3.10   43.0  15.0  290.4  2.0  0  0.00  88.  1004.  3 NAD-SFC NoSubs
11 10 16 289  4  -30.0  0.289 -9.000 -9.000 -999.  372.     71.6  0.2470  0.72  1.00  3.10   44.0  15.0  290.1  2.0  0  0.00  89.  1005.  3 NAD-SFC NoSubs
11 10 16 289  5  -23.6  0.239 -9.000 -9.000 -999.  282.     52.1  0.2470  0.72  1.00  2.60   37.0  15.0  289.9  2.0  0  0.00  90.  1005.  3 NAD-SFC NoSubs
11 10 16 289  6  -23.6  0.239 -9.000 -9.000 -999.  281.     52.1  0.2470  0.72  1.00  2.60   40.0  15.0  289.6  2.0  0  0.00  91.  1005.  3 NAD-SFC NoSubs
11 10 16 289  7   -6.6  0.134 -9.000 -9.000 -999.  123.     32.6  0.2470  0.72  0.57  1.50   50.0  15.0  289.4  2.0  0  0.00  92.  1006.  3 NAD-SFC NoSubs
11 10 16 289  8   33.1  0.097  0.547  0.009  177.   73.     -2.5  0.2930  0.72  0.31  0.50  354.0  15.0  290.6  2.0  0  0.00  83.  1006.  3 NAD-SFC NoSubs
11 10 16 289  9   83.4 -9.000 -9.000 -9.000  329. -999. -99999.0  0.2235  0.72  0.23  0.00    0.0  15.0  292.1  2.0  0  0.00  76.  1006.  3 NAD-SFC NoSubs
11 10 16 289 10  122.7 -9.000 -9.000 -9.000  473. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  293.6  2.0  0  0.00  71.  1006.  3 NAD-SFC NoSubs
11 10 16 289 11  148.0 -9.000 -9.000 -9.000  605. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  295.2  2.0  0  0.00  65.  1006.  2 NAD-SFC NoSubs
11 10 16 289 12  159.3 -9.000 -9.000 -9.000  744. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  296.8  2.0  0  0.00  60.  1005.  2 NAD-SFC NoSubs
11 10 16 289 13  155.5 -9.000 -9.000 -9.000  874. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  297.8  2.0  0  0.00  57.  1004.  2 NAD-SFC NoSubs
11 10 16 289 14  136.9 -9.000 -9.000 -9.000  973. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  298.6  2.0  0  0.00  54.  1004.  2 NAD-SFC NoSubs
11 10 16 289 15  103.9  0.113  1.434  0.010 1018.   91.     -1.3  0.2940  0.72  0.22  0.50    1.0  15.0  299.2  2.0  0  0.00  53.  1004.  2 NAD-SFC NoSubs
11 10 16 289 16   57.8  0.160  1.190  0.010 1042.  154.     -6.4  0.2940  0.72  0.26  1.00    6.0  15.0  299.2  2.0  0  0.00  53.  1003.  2 NAD-SFC NoSubs
11 10 16 289 17    5.1  0.170  0.530  0.010 1044.  168.    -86.4  0.2940  0.72  0.42  1.50   29.0  15.0  299.2  2.0  0  0.00  57.  1003.  2 NAD-SFC NoSubs
11 10 16 289 18  -23.5  0.239 -9.000 -9.000 -999.  281.     52.2  0.2470  0.72  1.00  2.60   43.0  15.0  298.2  2.0  0  0.00  61.  1004.  2 NAD-SFC NoSubs
11 10 16 289 19  -15.1  0.190 -9.000 -9.000 -999.  199.     40.6  0.2470  0.72  1.00  2.10   50.0  15.0  297.1  2.0  0  0.00  66.  1004.  2 NAD-SFC NoSubs
11 10 16 289 20   -3.5  0.096 -9.000 -9.000 -999.   75.     22.3  0.2090  0.72  1.00  1.00   64.0  15.0  296.1  2.0  0  0.00  70.  1004.  2 NAD-SFC NoSubs
11 10 16 289 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  295.1  2.0  0  0.00  75.  1005.  2 NAD-SFC NoSubs
11 10 16 289 22   -7.2  0.129 -9.000 -9.000 -999.  111.     26.6  0.2160  0.72  1.00  1.50  283.0  15.0  294.1  2.0  0  0.00  80.  1005.  2 NAD-SFC NoSubs
11 10 16 289 23  -22.4  0.231 -9.000 -9.000 -999.  266.     49.1  0.2160  0.72  1.00  2.60  292.0  15.0  293.2  2.0  0  0.00  82.  1006.  2 NAD-SFC NoSubs
11 10 16 289 24  -24.9  0.246 -9.000 -9.000 -999.  293.     53.6  0.2720  0.72  1.00  2.60  305.0  15.0  292.6  2.0  0  0.00  84.  1005.  2 NAD-SFC NoSubs
11 10 17 290  1  -14.4  0.183 -9.000 -9.000 -999.  189.     38.2  0.2160  0.72  1.00  2.10  299.0  15.0  292.1  2.0  0  0.00  85.  1005.  2 NAD-SFC NoSubs
11 10 17 290  2   -8.0  0.137 -9.000 -9.000 -999.  122.     28.7  0.2720  0.72  1.00  1.50  309.0  15.0  291.8  2.0  0  0.00  86.  1006.  2 NAD-SFC NoSubs
11 10 17 290  3   -3.6  0.097 -9.000 -9.000 -999.   72.     22.4  0.2160  0.72  1.00  1.00  298.0  15.0  291.2  2.0  0  0.00  88.  1006.  2 NAD-SFC NoSubs
11 10 17 290  4   -3.6  0.097 -9.000 -9.000 -999.   72.     22.4  0.2160  0.72  1.00  1.00  296.0  15.0  290.9  2.0  0  0.00  90.  1006.  2 NAD-SFC NoSubs
11 10 17 290  5   -7.2  0.129 -9.000 -9.000 -999.  111.     26.5  0.2160  0.72  1.00  1.50  299.0  15.0  290.5  2.0  0  0.00  92.  1006.  2 NAD-SFC NoSubs
11 10 17 290  6   -3.6  0.097 -9.000 -9.000 -999.   72.     22.4  0.2160  0.72  1.00  1.00  298.0  15.0  290.2  2.0  0  0.00  94.  1006.  2 NAD-SFC NoSubs
11 10 17 290  7   -3.3  0.096 -9.000 -9.000 -999.   71.     23.7  0.2720  0.72  0.57  1.00  300.0  15.0  289.9  2.0  0  0.00  96.  1007.  2 NAD-SFC NoSubs
11 10 17 290  8   30.7  0.149  0.466  0.006  118.  138.     -9.7  0.2930  0.72  0.31  1.00  337.0  15.0  290.9  2.0  0  0.00  91.  1007.  2 NAD-SFC NoSubs
11 10 17 290  9   81.5 -9.000 -9.000 -9.000  276. -999. -99999.0  0.2235  0.72  0.23  0.00    0.0  15.0  292.8  2.0  0  0.00  82.  1007.  2 NAD-SFC NoSubs
11 10 17 290 10  121.4 -9.000 -9.000 -9.000  544. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  294.8  2.0  0  0.00  72.  1007.  2 NAD-SFC NoSubs
11 10 17 290 11  147.3 -9.000 -9.000 -9.000  721. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  296.2  2.0  0  0.00  66.  1006.  2 NAD-SFC NoSubs
11 10 17 290 12  158.7 -9.000 -9.000 -9.000  810. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  298.0  2.0  0  0.00  59.  1005.  2 NAD-SFC NoSubs
11 10 17 290 13  155.2 -9.000 -9.000 -9.000  890. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  299.5  2.0  0  0.00  52.  1004.  2 NAD-SFC NoSubs
11 10 17 290 14  136.6 -9.000 -9.000 -9.000  955. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  300.5  2.0  0  0.00  49.  1003.  2 NAD-SFC NoSubs
11 10 17 290 15  103.4  0.224  1.422  0.011  995.  254.     -9.7  0.2940  0.72  0.22  1.50   17.0  15.0  300.9  2.0  0  0.00  48.  1003.  2 NAD-SFC NoSubs
11 10 17 290 16   57.3  0.311  1.175  0.011 1015.  417.    -47.2  0.2940  0.72  0.27  2.60    7.0  15.0  300.8  2.0  0  0.00  50.  1003.  2 NAD-SFC NoSubs
11 10 17 290 17    4.5  0.322  0.503  0.011 1016.  438.   -665.9  0.2940  0.72  0.42  3.10   24.0  15.0  300.2  2.0  0  0.00  56.  1003.  2 NAD-SFC NoSubs
11 10 17 290 18  -31.4  0.304 -9.000 -9.000 -999.  402.     79.6  0.2940  0.72  1.00  3.10   27.0  15.0  299.0  2.0  0  0.00  61.  1003.  2 NAD-SFC NoSubs
11 10 17 290 19   -7.6  0.133 -9.000 -9.000 -999.  143.     28.0  0.2470  0.72  1.00  1.50   32.0  15.0  297.8  2.0  0  0.00  66.  1003.  2 NAD-SFC NoSubs
11 10 17 290 20   -1.4  0.078 -9.000 -9.000 -999.   54.     30.8  0.1750  0.72  1.00  0.50  240.0  15.0  296.6  2.0  0  0.00  71.  1003.  2 NAD-SFC NoSubs
11 10 17 290 21   -3.3  0.093 -9.000 -9.000 -999.   68.     21.7  0.1750  0.72  1.00  1.00  248.0  15.0  295.6  2.0  0  0.00  76.  1004.  2 NAD-SFC NoSubs
11 10 17 290 22  -14.3  0.183 -9.000 -9.000 -999.  188.     38.4  0.2160  0.72  1.00  2.10  279.0  15.0  294.9  2.0  0  0.00  78.  1004.  2 NAD-SFC NoSubs
11 10 17 290 23  -22.3  0.231 -9.000 -9.000 -999.  266.     49.2  0.2160  0.72  1.00  2.60  287.0  15.0  294.2  2.0  0  0.00  81.  1004.  2 NAD-SFC NoSubs
11 10 17 290 24  -22.3  0.231 -9.000 -9.000 -999.  266.     49.1  0.2160  0.72  1.00  2.60  298.0  15.0  293.4  2.0  0  0.00  84.  1005.  2 NAD-SFC NoSubs
11 10 18 291  1  -14.3  0.183 -9.000 -9.000 -999.  188.     38.3  0.2160  0.72  1.00  2.10  298.0  15.0  292.8  2.0  0  0.00  86.  1005.  2 NAD-SFC NoSubs
11 10 18 291  2   -7.1  0.129 -9.000 -9.000 -999.  111.     26.9  0.2160  0.72  1.00  1.50  293.0  15.0  292.4  2.0  0  0.00  87.  1005.  3 NAD-SFC NoSubs
11 10 18 291  3  -14.2  0.183 -9.000 -9.000 -999.  188.     38.8  0.2160  0.72  1.00  2.10  284.0  15.0  292.0  2.0  0  0.00  88.  1005.  3 NAD-SFC NoSubs
11 10 18 291  4  -33.7  0.325 -9.000 -9.000 -999.  445.     91.5  0.2160  0.72  1.00  3.60  281.0  15.0  291.4  2.0  0  0.00  89.  1005.  3 NAD-SFC NoSubs
11 10 18 291  5  -34.7  0.325 -9.000 -9.000 -999.  445.     88.9  0.2160  0.72  1.00  3.60  278.0  15.0  290.8  2.0  0  0.00  89.  1006.  2 NAD-SFC NoSubs
11 10 18 291  6  -29.7  0.278 -9.000 -9.000 -999.  353.     64.8  0.2160  0.72  1.00  3.10  293.0  15.0  290.4  2.0  0  0.00  87.  1006.  2 NAD-SFC NoSubs
11 10 18 291  7  -20.0  0.232 -9.000 -9.000 -999.  269.     56.2  0.2160  0.72  0.58  2.60  292.0  15.0  290.2  2.0  0  0.00  84.  1006.  2 NAD-SFC NoSubs
11 10 18 291  8   29.7  0.292  0.451  0.006  111.  378.    -75.0  0.2720  0.72  0.31  2.60  315.0  15.0  290.9  2.0  0  0.00  76.  1006.  2 NAD-SFC NoSubs
11 10 18 291  9   80.3  0.269  0.794  0.007  223.  336.    -21.8  0.2720  0.72  0.23  2.10  322.0  15.0  292.4  2.0  0  0.00  65.  1006.  2 NAD-SFC NoSubs
11 10 18 291 10  120.0  0.164  1.088  0.006  385.  165.     -3.3  0.2160  0.72  0.21  1.00  297.0  15.0  294.1  2.0  0  0.00  59.  1006.  2 NAD-SFC NoSubs
11 10 18 291 11  146.0  0.168  1.343  0.006  596.  166.     -2.9  0.2160  0.72  0.20  1.00  293.0  15.0  296.1  2.0  0  0.00  53.  1006.  2 NAD-SFC NoSubs
11 10 18 291 12  157.2  0.178  1.487  0.006  750.  181.     -3.2  0.2720  0.72  0.20  1.00  302.0  15.0  297.4  2.0  0  0.00  50.  1005.  2 NAD-SFC NoSubs
11 10 18 291 13  153.4  0.178  1.550  0.006  870.  180.     -3.3  0.2720  0.72  0.20  1.00  318.0  15.0  298.5  2.0  0  0.00  48.  1004.  2 NAD-SFC NoSubs
11 10 18 291 14  134.7  0.178  1.536  0.006  964.  180.     -3.8  0.2930  0.72  0.20  1.00  340.0  15.0  299.4  2.0  0  0.00  46.  1003.  2 NAD-SFC NoSubs
11 10 18 291 15  101.5  0.223  1.434  0.006 1041.  253.     -9.8  0.2930  0.72  0.22  1.50  354.0  15.0  299.9  2.0  0  0.00  46.  1003.  2 NAD-SFC NoSubs
11 10 18 291 16   55.5  0.264  1.187  0.006 1081.  326.    -29.8  0.2940  0.72  0.27  2.10    6.0  15.0  299.9  2.0  0  0.00  47.  1003.  2 NAD-SFC NoSubs
11 10 18 291 17    3.0  0.222  0.448  0.006 1082.  252.   -329.1  0.2940  0.72  0.43  2.10    8.0  15.0  299.5  2.0  0  0.00  53.  1002.  2 NAD-SFC NoSubs
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11 10 18 291 18   -4.0  0.102 -9.000 -9.000 -999.   87.     23.7  0.2940  0.72  1.00  1.00  17.0  15.0 298.2  2.0    0  0.00   58.  1002.    2 NAD-SFC NoSubs
11 10 18 291 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 296.8  2.0    0  0.00   63.  1003.    2 NAD-SFC NoSubs
11 10 18 291 20   -3.3  0.093 -9.000 -9.000 -999.   68.     21.7  0.1750  0.72  1.00  1.00 251.0  15.0 295.5  2.0    0  0.00   69.  1003.    2 NAD-SFC NoSubs
11 10 18 291 21   -29.2 0.278 -9.000 -9.000 -999.  352.     65.9  0.2160  0.72  1.00  3.10 285.0  15.0 294.8  2.0    0  0.00   72.  1003.    2 NAD-SFC NoSubs
11 10 18 291 22   -39.3 0.372 -9.000 -9.000 -999.  545.    117.5  0.2160  0.72  1.00  4.10 286.0  15.0 292.9  2.0    0  0.00   81.  1003.    2 NAD-SFC NoSubs
11 10 18 291 23   -34.5 0.325 -9.000 -9.000 -999.  446.     89.3  0.2160  0.72  1.00  3.60 286.0  15.0 291.9  2.0    0  0.00   87.  1004.    2 NAD-SFC NoSubs
11 10 18 291 24   -29.5 0.278 -9.000 -9.000 -999.  353.     65.1  0.2160  0.72  1.00  3.10 290.0  15.0 291.4  2.0    0  0.00   87.  1004.    2 NAD-SFC NoSubs
11 10 19 292  1   -28.8 0.278 -9.000 -9.000 -999.  352.     66.8  0.2160  0.72  1.00  3.10 290.0  15.0 291.1  2.0    0  0.00   88.  1004.    3 NAD-SFC NoSubs
11 10 19 292  2   -30.8 0.297 -9.000 -9.000 -999.  388.     75.9  0.2720  0.72  1.00  3.10 304.0  15.0 290.8  2.0    0  0.00   90.  1004.    3 NAD-SFC NoSubs
11 10 19 292  3   -24.6 0.246 -9.000 -9.000 -999.  294.     54.2  0.2720  0.72  1.00  2.60 308.0  15.0 290.2  2.0    0  0.00   93.  1003.    3 NAD-SFC NoSubs
11 10 19 292  4   -7.9  0.137 -9.000 -9.000 -999.  128.     29.0  0.2720  0.72  1.00  1.50 318.0  15.0 289.8  2.0    0  0.00   96.  1004.    3 NAD-SFC NoSubs
11 10 19 292  5   -4.0  0.102 -9.000 -9.000 -999.   78.     23.7  0.2930  0.72  1.00  1.00 344.0  15.0 289.2  2.0    0  0.00   98.  1004.    3 NAD-SFC NoSubs
11 10 19 292  6   -4.0  0.102 -9.000 -9.000 -999.   78.     23.7  0.2940  0.72  1.00  1.00   8.0  15.0 288.5  2.0    0  0.00  100.  1004.    3 NAD-SFC NoSubs
11 10 19 292  7   -3.5  0.098 -9.000 -9.000 -999.   73.     24.1  0.2940  0.72  0.59  1.00   4.0  15.0 288.2  2.0    0  0.00  100.  1004.    3 NAD-SFC NoSubs
11 10 19 292  8   29.3 -9.000 -9.000 -9.000  168. -999. -99999.0  0.2235  0.72  0.32  0.00   0.0  15.0 288.2  2.0    0  0.00  100.  1004.    3 NAD-SFC NoSubs
11 10 19 292  9   78.9  0.109  0.853  0.009  282.   87.     -1.5  0.2940  0.72  0.23  0.50  24.0  15.0 288.4  2.0    0  0.00   99.  1005.    3 NAD-SFC NoSubs
11 10 19 292 10  117.6 -9.000 -9.000 -9.000  387. -999. -99999.0  0.2235  0.72  0.21  0.00   0.0  15.0 289.1  2.0    0  0.00   95.  1004.    3 NAD-SFC NoSubs
11 10 19 292 11  143.2  0.110  1.300  0.007  550.   87.     -1.0  0.2090  0.72  0.20  0.50  82.0  15.0 290.9  2.0    0  0.00   83.  1004.    3 NAD-SFC NoSubs
11 10 19 292 12  154.4 -9.000 -9.000 -9.000  692. -999. -99999.0  0.2235  0.72  0.20  0.00   0.0  15.0 293.2  2.0    0  0.00   70.  1003.    3 NAD-SFC NoSubs
11 10 19 292 13  150.7 -9.000 -9.000 -9.000  819. -999. -99999.0  0.2235  0.72  0.20  0.00   0.0  15.0 294.8  2.0    0  0.00   62.  1002.    3 NAD-SFC NoSubs
11 10 19 292 14  132.1  0.178  1.502  0.008  916.  180.     -3.8  0.2930  0.72  0.20  1.00 333.0  15.0 295.8  2.0    0  0.00   58.  1001.    3 NAD-SFC NoSubs
11 10 19 292 15   99.3  0.222  1.397  0.008  982.  252.     -9.9  0.2930  0.72  0.22  1.50 338.0  15.0 296.4  2.0    0  0.00   57.  1001.    3 NAD-SFC NoSubs
11 10 19 292 16   53.7  0.264  1.150  0.008 1012.  325.    -30.4  0.2930  0.72  0.27  2.10 348.0  15.0 296.5  2.0    0  0.00   57.  1001.    3 NAD-SFC NoSubs
11 10 19 292 17    2.0  0.220  0.387  0.008 1013.  248.   -465.5  0.2940  0.72  0.44  2.10  18.0  15.0 296.2  2.0    0  0.00   61.  1001.    3 NAD-SFC NoSubs
11 10 19 292 18  -14.9  0.190 -9.000 -9.000 -999.  199.     41.1  0.2470  0.72  1.00  2.10  41.0  15.0 295.4  2.0    0  0.00   65.  1001.    3 NAD-SFC NoSubs
11 10 19 292 19   -3.7  0.098 -9.000 -9.000 -999.   77.     22.9  0.2470  0.72  1.00  1.00  52.0  15.0 294.5  2.0    0  0.00   68.  1001.    3 NAD-SFC NoSubs
11 10 19 292 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 293.5  2.0    0  0.00   74.  1002.    3 NAD-SFC NoSubs
11 10 19 292 21   -1.5  0.080 -9.000 -9.000 -999.   54.     31.1  0.2160  0.72  1.00  0.50 289.0  15.0 292.4  2.0    0  0.00   79.  1002.    3 NAD-SFC NoSubs
11 10 19 292 22   -1.6  0.082 -9.000 -9.000 -999.   57.     31.6  0.2720  0.72  1.00  0.50 313.0  15.0 291.6  2.0    0  0.00   84.  1002.    3 NAD-SFC NoSubs
11 10 19 292 23   -1.6  0.082 -9.000 -9.000 -999.   57.     31.6  0.2720  0.72  1.00  0.50 302.0  15.0 290.9  2.0    0  0.00   88.  1003.    3 NAD-SFC NoSubs
11 10 19 292 24   -1.5  0.080 -9.000 -9.000 -999.   55.     31.2  0.2160  0.72  1.00  0.50 296.0  15.0 290.4  2.0    0  0.00   90.  1003.    3 NAD-SFC NoSubs
11 10 20 293  1   -1.6  0.083 -9.000 -9.000 -999.   57.     31.7  0.2720  0.72  1.00  0.50 316.0  15.0 289.9  2.0    0  0.00   92.  1003.    3 NAD-SFC NoSubs
11 10 20 293  2   -1.6  0.083 -9.000 -9.000 -999.   58.     31.8  0.2930  0.72  1.00  0.50 340.0  15.0 289.6  2.0    0  0.00   94.  1003.    3 NAD-SFC NoSubs
11 10 20 293  3   -4.0  0.102 -9.000 -9.000 -999.   78.     23.7  0.2930  0.72  1.00  1.00 340.0  15.0 289.2  2.0    0  0.00   96.  1003.    3 NAD-SFC NoSubs
11 10 20 293  4   -8.2  0.140 -9.000 -9.000 -999.  125.     29.8  0.2930  0.72  1.00  1.50 346.0  15.0 288.8  2.0    0  0.00   97.  1003.    3 NAD-SFC NoSubs
11 10 20 293  5   -8.2  0.140 -9.000 -9.000 -999.  126.     29.8  0.2940  0.72  1.00  1.50   4.0  15.0 288.2  2.0    0  0.00   99.  1003.    3 NAD-SFC NoSubs
11 10 20 293  6   -8.2  0.140 -9.000 -9.000 -999.  126.     29.7  0.2940  0.72  1.00  1.50  10.0  15.0 287.4  2.0    0  0.00  100.  1004.    3 NAD-SFC NoSubs
11 10 20 293  7   -3.5  0.098 -9.000 -9.000 -999.   74.     24.0  0.2930  0.72  0.59  1.00 355.0  15.0 287.2  2.0    0  0.00  100.  1004.    3 NAD-SFC NoSubs
11 10 20 293  8   26.6  0.194  0.478  0.006  147.  205.    -24.5  0.2930  0.72  0.32  1.50 330.0  15.0 287.5  2.0    0  0.00  100.  1004.    2 NAD-SFC NoSubs
11 10 20 293  9   76.5  0.163  0.897  0.008  338.  158.     -5.1  0.2720  0.72  0.24  1.00 304.0  15.0 287.8  2.0    0  0.00  100.  1005.    2 NAD-SFC NoSubs
11 10 20 293 10  115.6 -9.000 -9.000 -9.000  538. -999. -99999.0  0.2235  0.72  0.21  0.00   0.0  15.0 288.4  2.0    0  0.00   95.  1005.    2 NAD-SFC NoSubs
11 10 20 293 11  141.3 -9.000 -9.000 -9.000  687. -999. -99999.0  0.2235  0.72  0.20  0.00   0.0  15.0 290.2  2.0    0  0.00   85.  1004.    2 NAD-SFC NoSubs
11 10 20 293 12  152.4 -9.000 -9.000 -9.000  762. -999. -99999.0  0.2235  0.72  0.20  0.00   0.0  15.0 292.2  2.0    0  0.00   75.  1003.    2 NAD-SFC NoSubs
11 10 20 293 13  148.7 -9.000 -9.000 -9.000  829. -999. -99999.0  0.2235  0.72  0.20  0.00   0.0  15.0 294.0  2.0    0  0.00   68.  1003.    2 NAD-SFC NoSubs
11 10 20 293 14  130.0  0.117  1.476  0.010  884.   96.     -1.1  0.2930  0.72  0.20  0.50 354.0  15.0 295.2  2.0    0  0.00   62.  1002.    2 NAD-SFC NoSubs
11 10 20 293 15   96.8  0.222  1.357  0.009  923.  251.    -10.1  0.2930  0.72  0.22  1.50 354.0  15.0 295.9  2.0    0  0.00   59.  1002.    2 NAD-SFC NoSubs
11 10 20 293 16   50.9  0.262  1.103  0.009  943.  323.    -31.8  0.2940  0.72  0.27  2.10   2.0  15.0 296.1  2.0    0  0.00   58.  1002.    2 NAD-SFC NoSubs
11 10 20 293 17   -0.8  0.152 -9.000 -9.000 -999.  148.    369.1  0.2940  0.72  0.44  1.50  13.0  15.0 296.0  2.0    0  0.00   62.  1002.    2 NAD-SFC NoSubs
11 10 20 293 18   -1.6  0.082 -9.000 -9.000 -999.   58.     31.6  0.2470  0.72  1.00  0.50  41.0  15.0 295.0  2.0    0  0.00   66.  1003.    2 NAD-SFC NoSubs
11 10 20 293 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 293.8  2.0    0  0.00   72.  1003.    2 NAD-SFC NoSubs
11 10 20 293 20   -1.4  0.079 -9.000 -9.000 -999.   53.     31.0  0.1810  0.72  1.00  0.50 166.0  15.0 292.6  2.0    0  0.00   78.  1004.    2 NAD-SFC NoSubs
11 10 20 293 21   -1.4  0.079 -9.000 -9.000 -999.   54.     31.0  0.1810  0.72  1.00  0.50 176.0  15.0 291.8  2.0    0  0.00   82.  1004.    2 NAD-SFC NoSubs
11 10 20 293 22   -1.4  0.079 -9.000 -9.000 -999.   54.     31.0  0.1810  0.72  1.00  0.50 169.0  15.0 290.9  2.0    0  0.00   86.  1005.    2 NAD-SFC NoSubs
11 10 20 293 23   -1.5  0.080 -9.000 -9.000 -999.   55.     31.3  0.1970  0.72  1.00  0.50 125.0  15.0 290.2  2.0    0  0.00   89.  1005.    2 NAD-SFC NoSubs
11 10 20 293 24   -1.5  0.081 -9.000 -9.000 -999.   55.     31.5  0.2130  0.72  1.00  0.50  97.0  15.0 289.6  2.0    0  0.00   92.  1005.    2 NAD-SFC NoSubs
11 10 21 294  1   -1.6  0.084 -9.000 -9.000 -999.   58.     32.0  0.2720  0.72  1.00  0.50 326.0  15.0 289.1  2.0    0  0.00   94.  1005.    2 NAD-SFC NoSubs
11 10 21 294  2   -4.1  0.102 -9.000 -9.000 -999.   79.     23.6  0.2930  0.72  1.00  1.00 338.0  15.0 288.6  2.0    0  0.00   94.  1006.    2 NAD-SFC NoSubs
11 10 21 294  3   -4.1  0.102 -9.000 -9.000 -999.   79.     23.6  0.2930  0.72  1.00  1.00 360.0  15.0 287.8  2.0    0  0.00   96.  1006.    2 NAD-SFC NoSubs
11 10 21 294  4   -8.4  0.140 -9.000 -9.000 -999.  126.     29.3  0.2940  0.72  1.00  1.50   9.0  15.0 287.2  2.0    0  0.00   99.  1006.    2 NAD-SFC NoSubs
11 10 21 294  5   -8.4  0.140 -9.000 -9.000 -999.  126.     29.3  0.2940  0.72  1.00  1.50  11.0  15.0 287.0  2.0    0  0.00  100.  1007.    2 NAD-SFC NoSubs
11 10 21 294  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 286.9  2.0    0  0.00  100.  1007.    2 NAD-SFC NoSubs
11 10 21 294  7   -1.5  0.080 -9.000 -9.000 -999.   54.     30.7  0.2930  0.72  0.60  0.50 355.0  15.0 286.8  2.0    0  0.00  100.  1008.    2 NAD-SFC NoSubs
11 10 21 294  8   25.4  0.094  0.410  0.010   97.   69.     -2.9  0.2930  0.72  0.32  0.50 341.0  15.0 286.9  2.0    0  0.00  100.  1008.    2 NAD-SFC NoSubs
11 10 21 294  9   75.2 -9.000 -9.000 -9.000  238. -999. -99999.0  0.2235  0.72  0.24  0.00   0.0  15.0 287.1  2.0    0  0.00  100.  1009.    2 NAD-SFC NoSubs
11 10 21 294 10  114.1 -9.000 -9.000 -9.000  386. -999. -99999.0  0.2235  0.72  0.21  0.00   0.0  15.0 287.4  2.0    0  0.00  100.  1009.    2 NAD-SFC NoSubs
11 10 21 294 11  139.5 -9.000 -9.000 -9.000  561. -999. -99999.0  0.2235  0.72  0.20  0.00   0.0  15.0 288.4  2.0    0  0.00   94.  1009.    2 NAD-SFC NoSubs
11 10 21 294 12  150.6 -9.000 -9.000 -9.000  685. -999. -99999.0  0.2235  0.72  0.20  0.00   0.0  15.0 290.5  2.0    0  0.00   83.  1008.    2 NAD-SFC NoSubs
11 10 21 294 13  146.9  0.119  1.455  0.011  754.   98.     -1.0  0.2930  0.72  0.20  0.50 356.0  15.0 292.8  2.0    0  0.00   72.  1007.    2 NAD-SFC NoSubs
11 10 21 294 14  128.2  0.177  1.425  0.010  811.  179.     -3.9  0.2930  0.72  0.20  1.00 355.0  15.0 294.1  2.0    0  0.00   66.  1006.    2 NAD-SFC NoSubs
11 10 21 294 15   95.0  0.221  1.310  0.010  850.  250.    -10.2  0.2930  0.72  0.22  1.50 346.0  15.0 294.9  2.0    0  0.00   62.  1006.    2 NAD-SFC NoSubs
11 10 21 294 16   49.1 -9.000 -9.000 -9.000  869. -999. -99999.0  0.2235  0.72  0.28  0.00   0.0  15.0 295.2  2.0    0  0.00   60.  1006.    2 NAD-SFC NoSubs
11 10 21 294 17   -1.3  0.092 -9.000 -9.000 -999.   67.     55.0  0.2470  0.72  0.45  1.00  36.0  15.0 295.0  2.0    0  0.00   64.  1006.    2 NAD-SFC NoSubs
11 10 21 294 18   -3.6  0.096 -9.000 -9.000 -999.   71.     22.3  0.2090  0.72  1.00  1.00  76.0  15.0 294.0  2.0    0  0.00   69.  1006.    2 NAD-SFC NoSubs
11 10 21 294 19   -3.5  0.095 -9.000 -9.000 -999.   70.     22.1  0.1970  0.72  1.00  1.00 125.0  15.0 292.8  2.0    0  0.00   75.  1006.    2 NAD-SFC NoSubs
11 10 21 294 20   -1.5  0.080 -9.000 -9.000 -999.   54.     31.2  0.1970  0.72  1.00  0.50 142.0  15.0 291.8  2.0    0  0.00   80.  1006.    2 NAD-SFC NoSubs
11 10 21 294 21   -1.5  0.080 -9.000 -9.000 -999.   54.     31.2  0.1970  0.72  1.00  0.50 132.0  15.0 290.8  2.0    0  0.00   85.  1006.    2 NAD-SFC NoSubs
11 10 21 294 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00   0.0  15.0 290.0  2.0    0  0.00   91.  1007.    2 NAD-SFC NoSubs
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11 10 21 294 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 289.2 2.0 0 0.00  96. 1007.  2 NAD-SFC NoSubs
11 10 21 294 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 288.2 2.0 0 0.00 100. 1007.  2 NAD-SFC NoSubs
11 10 22 295  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 286.8 2.0 0 0.00 100. 1006.  2 NAD-SFC NoSubs
11 10 22 295  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 285.6 2.0 0 0.00 100. 1006.  2 NAD-SFC NoSubs
11 10 22 295  3   -1.7  0.085 -9.000 -9.000 -999.  59.     32.2 0.2930 0.72 1.00 0.50 332.0 15.0 286.0 2.0 0 0.00 100. 1006.  2 NAD-SFC NoSubs
11 10 22 295  4   -1.7  0.085 -9.000 -9.000 -999.  59.     32.2 0.2930 0.72 1.00 0.50 341.0 15.0 286.1 2.0 0 0.00 100. 1006.  2 NAD-SFC NoSubs
11 10 22 295  5   -4.1  0.103 -9.000 -9.000 -999.  79.     23.6 0.2930 0.72 1.00 1.00 344.0 15.0 285.9 2.0 0 0.00 100. 1006.  2 NAD-SFC NoSubs
11 10 22 295  6   -4.1  0.103 -9.000 -9.000 -999.  79.     23.6 0.2930 0.72 1.00 1.00 337.0 15.0 285.8 2.0 0 0.00 100. 1006.  2 NAD-SFC NoSubs
11 10 22 295  7   -1.5  0.080 -9.000 -9.000 -999.  54.     30.8 0.2720 0.72 0.61 0.50 316.0 15.0 285.6 2.0 0 0.00 100. 1007.  2 NAD-SFC NoSubs
11 10 22 295  8   24.2  0.092  0.364  0.016  71.   66.     -2.9 0.2720 0.72 0.32 0.50 309.0 15.0 286.2 2.0 0 0.00  96. 1007.  2 NAD-SFC NoSubs
11 10 22 295  9   74.2 -9.000 -9.000 -9.000 173. -999. -99999.0 0.2235 0.72 0.24 0.00   0.0 15.0 287.5 2.0 0 0.00  89. 1007.  2 NAD-SFC NoSubs
11 10 22 295 10  113.6 -9.000 -9.000 -9.000 343. -999. -99999.0 0.2235 0.72 0.21 0.00   0.0 15.0 289.8 2.0 0 0.00  78. 1006.  2 NAD-SFC NoSubs
11 10 22 295 11  139.7 -9.000 -9.000 -9.000 458. -999. -99999.0 0.2235 0.72 0.20 0.00   0.0 15.0 292.5 2.0 0 0.00  66. 1006.  2 NAD-SFC NoSubs
11 10 22 295 12  150.9 -9.000 -9.000 -9.000 542. -999. -99999.0 0.2235 0.72 0.20 0.00   0.0 15.0 294.8 2.0 0 0.00  56. 1005.  2 NAD-SFC NoSubs
11 10 22 295 13  147.0  0.119  1.361  0.014 614.  98.     -1.0 0.2930 0.72 0.20 0.50 331.0 15.0 296.0 2.0 0 0.00  51. 1004.  2 NAD-SFC NoSubs
11 10 22 295 14  128.2  0.116  1.339  0.013 671.  95.     -1.1 0.2930 0.72 0.20 0.50 355.0 15.0 297.1 2.0 0 0.00  49. 1003.  2 NAD-SFC NoSubs
11 10 22 295 15   95.0 -9.000 -9.000 -9.000 710. -999. -99999.0 0.2235 0.72 0.22 0.00   0.0 15.0 297.6 2.0 0 0.00  48. 1003.  2 NAD-SFC NoSubs
11 10 22 295 16   49.3  0.262  1.003  0.012 730.  321.    -32.5 0.2940 0.72 0.28 2.10  13.0 15.0 298.4 2.0 0 0.00  41. 1002.  2 NAD-SFC NoSubs
11 10 22 295 17   -2.6  0.201 -9.000 -9.000 -999.  217.   274.4 0.2470 0.72 0.46 2.10  32.0 15.0 297.8 2.0 0 0.00  46. 1002.  2 NAD-SFC NoSubs
11 10 22 295 18  -15.1  0.190 -9.000 -9.000 -999.  199.    40.6 0.2470 0.72 1.00 2.10  44.0 15.0 296.6 2.0 0 0.00  50. 1003.  2 NAD-SFC NoSubs
11 10 22 295 19   -7.6  0.133 -9.000 -9.000 -999.  117.    27.9 0.2470 0.72 1.00 1.50  34.0 15.0 295.2 2.0 0 0.00  54. 1003.  2 NAD-SFC NoSubs
11 10 22 295 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 294.0 2.0 0 0.00  60. 1003.  2 NAD-SFC NoSubs
11 10 22 295 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 292.8 2.0 0 0.00  67. 1003.  2 NAD-SFC NoSubs
11 10 22 295 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 291.9 2.0 0 0.00  71. 1004.  2 NAD-SFC NoSubs
11 10 22 295 23   -1.7  0.084 -9.000 -9.000 -999.  59.     32.0 0.2940 0.72 1.00 0.50  17.0 15.0 291.2 2.0 0 0.00  73. 1004.  2 NAD-SFC NoSubs
11 10 22 295 24   -1.7  0.084 -9.000 -9.000 -999.  59.     32.0 0.2930 0.72 1.00 0.50 347.0 15.0 290.6 2.0 0 0.00  74. 1004.  2 NAD-SFC NoSubs
11 10 23 296  1   -4.0  0.102 -9.000 -9.000 -999.  78.     23.6 0.2930 0.72 1.00 1.00 344.0 15.0 290.1 2.0 0 0.00  76. 1004.  2 NAD-SFC NoSubs
11 10 23 296  2  -16.6  0.200 -9.000 -9.000 -999.  214.    42.9 0.2930 0.72 1.00 2.10 345.0 15.0 289.8 2.0 0 0.00  77. 1004.  2 NAD-SFC NoSubs
11 10 23 296  3  -25.0  0.246 -9.000 -9.000 -999.  293.    53.3 0.2720 0.72 1.00 2.60 328.0 15.0 289.4 2.0 0 0.00  77. 1004.  2 NAD-SFC NoSubs
11 10 23 296  4  -25.0  0.246 -9.000 -9.000 -999.  293.    53.3 0.2720 0.72 1.00 2.60 327.0 15.0 289.0 2.0 0 0.00  77. 1004.  2 NAD-SFC NoSubs
11 10 23 296  5  -16.0  0.195 -9.000 -9.000 -999.  208.    41.5 0.2720 0.72 1.00 2.10 325.0 15.0 288.6 2.0 0 0.00  76. 1004.  2 NAD-SFC NoSubs
11 10 23 296  6   -8.0  0.137 -9.000 -9.000 -999.  122.    28.6 0.2720 0.72 1.00 1.50 313.0 15.0 288.2 2.0 0 0.00  75. 1004.  2 NAD-SFC NoSubs
11 10 23 296  7   -3.3  0.094 -9.000 -9.000 -999.  70.     22.4 0.2160 0.72 0.62 1.00 272.0 15.0 287.9 2.0 0 0.00  74. 1004.  2 NAD-SFC NoSubs
11 10 23 296  8   23.6  0.085  0.358  0.017  69.   59.     -2.3 0.1950 0.72 0.33 0.50 233.0 15.0 288.0 2.0 0 0.00  72. 1004.  2 NAD-SFC NoSubs
11 10 23 296  9   74.1  0.155  0.687  0.013 157.  146.     -4.5 0.2160 0.72 0.24 1.00 292.0 15.0 290.8 2.0 0 0.00  56. 1004.  2 NAD-SFC NoSubs
11 10 23 296 10  113.5  0.107  0.947  0.010 268.   84.     -1.0 0.2160 0.72 0.21 0.50 276.0 15.0 292.5 2.0 0 0.00  53. 1004.  2 NAD-SFC NoSubs
11 10 23 296 11  139.5  0.110  1.148  0.008 388.   88.     -1.0 0.2160 0.72 0.20 0.50 293.0 15.0 295.0 2.0 0 0.00  47. 1003.  2 NAD-SFC NoSubs
11 10 23 296 12  150.9 -9.000 -9.000 -9.000 542. -999. -99999.0 0.2235 0.72 0.20 0.00   0.0 15.0 297.4 2.0 0 0.00  38. 1002.  2 NAD-SFC NoSubs
11 10 23 296 13  147.3  0.117  1.396  0.005 661.  96.     -1.0 0.2720 0.72 0.20 0.50 306.0 15.0 299.1 2.0 0 0.00  33. 1002.  2 NAD-SFC NoSubs
11 10 23 296 14  128.5  0.117  1.413  0.005 785.  95.     -1.1 0.2930 0.72 0.21 0.50 340.0 15.0 300.1 2.0 0 0.00  32. 1001.  2 NAD-SFC NoSubs
11 10 23 296 15   95.2 -9.000 -9.000 -9.000 865. -999. -99999.0 0.2235 0.72 0.22 0.00   0.0 15.0 300.6 2.0 0 0.00  32. 1001.  2 NAD-SFC NoSubs
11 10 23 296 16   49.0  0.262  1.074  0.005 902.  321.    -32.6 0.2940 0.72 0.28 2.10  11.0 15.0 300.2 2.0 0 0.00  38. 1000.  2 NAD-SFC NoSubs
11 10 23 296 17   -4.5  0.316 -9.000 -9.000 -999.  427.   628.1 0.2940 0.72 0.46 3.10   8.0 15.0 299.4 2.0 0 0.00  44. 1000.  2 NAD-SFC NoSubs
11 10 23 296 18  -31.5  0.303 -9.000 -9.000 -999.  401.    79.3 0.2940 0.72 1.00 3.10  21.0 15.0 297.9 2.0 0 0.00  49. 1001.  2 NAD-SFC NoSubs
11 10 23 296 19  -16.4  0.200 -9.000 -9.000 -999.  220.    43.6 0.2940 0.72 1.00 2.10   8.0 15.0 296.6 2.0 0 0.00  54. 1001.  2 NAD-SFC NoSubs
11 10 23 296 20   -3.9  0.100 -9.000 -9.000 -999.  82.     23.3 0.2720 0.72 1.00 1.00 317.0 15.0 295.2 2.0 0 0.00  58. 1001.  2 NAD-SFC NoSubs
11 10 23 296 21   -3.6  0.096 -9.000 -9.000 -999.  72.     22.4 0.2160 0.72 1.00 1.00 280.0 15.0 294.2 2.0 0 0.00  63. 1002.  2 NAD-SFC NoSubs
11 10 23 296 22   -7.2  0.129 -9.000 -9.000 -999.  111.    26.6 0.2160 0.72 1.00 1.50 296.0 15.0 293.5 2.0 0 0.00  65. 1002.  2 NAD-SFC NoSubs
11 10 23 296 23  -16.5  0.200 -9.000 -9.000 -999.  214.    43.2 0.2930 0.72 1.00 2.10 344.0 15.0 292.8 2.0 0 0.00  68. 1002.  2 NAD-SFC NoSubs
11 10 23 296 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 292.0 2.0 0 0.00  70. 1003.  2 NAD-SFC NoSubs
11 10 24 297  1  -48.6  0.458 -9.000 -9.000 -999.  743.   176.4 0.2940 0.72 1.00 4.60  11.0 15.0 291.2 2.0 0 0.00  73. 1003.  2 NAD-SFC NoSubs
11 10 24 297  2  -48.8  0.458 -9.000 -9.000 -999.  743.   175.9 0.2940 0.72 1.00 4.60   8.0 15.0 290.4 2.0 0 0.00  77. 1003.  2 NAD-SFC NoSubs
11 10 24 297  3  -43.3  0.406 -9.000 -9.000 -999.  623.   138.2 0.2940 0.72 1.00 4.10  10.0 15.0 289.9 2.0 0 0.00  79. 1003.  2 NAD-SFC NoSubs
11 10 24 297  4  -43.4  0.406 -9.000 -9.000 -999.  621.   138.0 0.2940 0.72 1.00 4.10  12.0 15.0 289.6 2.0 0 0.00  81. 1003.  2 NAD-SFC NoSubs
11 10 24 297  5  -38.0  0.355 -9.000 -9.000 -999.  509.   105.1 0.2940 0.72 1.00 3.60  15.0 15.0 289.2 2.0 0 0.00  82. 1004.  2 NAD-SFC NoSubs
11 10 24 297  6  -30.9  0.288 -9.000 -9.000 -999.  374.    69.5 0.2470 0.72 1.00 3.10  30.0 15.0 289.1 2.0 0 0.00  83. 1004.  2 NAD-SFC NoSubs
11 10 24 297  7  -22.8  0.240 -9.000 -9.000 -999.  283.    54.4 0.2470 0.72 0.63 2.60  53.0 15.0 288.8 2.0 0 0.00  84. 1004.  2 NAD-SFC NoSubs
11 10 24 297  8   23.0  0.271  0.358  0.007  71.   339.   -77.8 0.2090 0.72 0.33 2.60  72.0 15.0 289.1 2.0 0 0.00  83. 1004.  2 NAD-SFC NoSubs
11 10 24 297  9   73.2  0.159  0.708  0.010 174.  158.     -4.9 0.2470 0.72 0.24 1.00  59.0 15.0 291.4 2.0 0 0.00  73. 1004.  2 NAD-SFC NoSubs
11 10 24 297 10  112.6 -9.000 -9.000 -9.000 331. -999. -99999.0 0.2235 0.72 0.21 0.00   0.0 15.0 293.2 2.0 0 0.00  67. 1004.  2 NAD-SFC NoSubs
11 10 24 297 11  138.4 -9.000 -9.000 -9.000 496. -999. -99999.0 0.2235 0.72 0.20 0.00   0.0 15.0 295.4 2.0 0 0.00  58. 1004.  2 NAD-SFC NoSubs
11 10 24 297 12  149.3 -9.000 -9.000 -9.000 640. -999. -99999.0 0.2235 0.72 0.20 0.00   0.0 15.0 296.8 2.0 0 0.00  53. 1003.  2 NAD-SFC NoSubs
11 10 24 297 13  145.3  0.117  1.471  0.005 784.  96.     -1.0 0.2720 0.72 0.20 0.50 318.0 15.0 297.8 2.0 0 0.00  49. 1002.  2 NAD-SFC NoSubs
11 10 24 297 14  126.3  0.174  1.467  0.005 894.  174.    -3.7 0.2720 0.72 0.21 1.00 321.0 15.0 298.5 2.0 0 0.00  47. 1002.  2 NAD-SFC NoSubs
11 10 24 297 15   93.0  0.217  1.360  0.005 968.  243.    -9.8 0.2720 0.72 0.22 1.50 326.0 15.0 298.9 2.0 0 0.00  46. 1002.  2 NAD-SFC NoSubs
11 10 24 297 16   47.0  0.205  1.100  0.005 1010. 222.   -16.3 0.2930 0.72 0.28 1.50 352.0 15.0 298.9 2.0 0 0.00  48. 1001.  2 NAD-SFC NoSubs
11 10 24 297 17   -1.8  0.149 -9.000 -9.000 -999.  139.   162.6 0.2940 0.72 0.47 1.50  17.0 15.0 298.5 2.0 0 0.00  52. 1001.  3 NAD-SFC NoSubs
11 10 24 297 18   -3.7  0.098 -9.000 -9.000 -999.  74.     22.9 0.2470 0.72 1.00 1.00  44.0 15.0 297.2 2.0 0 0.00  57. 1002.  3 NAD-SFC NoSubs
11 10 24 297 19  -14.1  0.183 -9.000 -9.000 -999.  188.    39.1 0.2160 0.72 1.00 2.10 273.0 15.0 296.2 2.0 0 0.00  62. 1003.  3 NAD-SFC NoSubs
11 10 24 297 20  -43.1  0.420 -9.000 -9.000 -999.  653.   153.7 0.2160 0.72 1.00 4.60 284.0 15.0 293.6 2.0 0 0.00  73. 1003.  3 NAD-SFC NoSubs
11 10 24 297 21  -38.6  0.373 -9.000 -9.000 -999.  548.   120.1 0.2160 0.72 1.00 4.10 285.0 15.0 291.5 2.0 0 0.00  79. 1004.  3 NAD-SFC NoSubs
11 10 24 297 22  -33.8  0.325 -9.000 -9.000 -999.  447.    91.3 0.2160 0.72 1.00 3.60 281.0 15.0 290.6 2.0 0 0.00  79. 1005.  3 NAD-SFC NoSubs
11 10 24 297 23  -29.8  0.297 -9.000 -9.000 -999.  389.    78.7 0.2720 0.72 1.00 3.10 305.0 15.0 289.9 2.0 0 0.00  79. 1005.  4 NAD-SFC NoSubs
11 10 24 297 24  -15.8  0.201 -9.000 -9.000 -999.  220.    45.8 0.2930 0.72 1.00 2.10 334.0 15.0 289.4 2.0 0 0.00  79. 1005.  5 NAD-SFC NoSubs
11 10 25 298  1   -7.6  0.140 -9.000 -9.000 -999.  127.    32.3 0.2940 0.72 1.00 1.50   8.0 15.0 289.0 2.0 0 0.00  80. 1006.  6 NAD-SFC NoSubs
11 10 25 298  2   -3.2  0.094 -9.000 -9.000 -999.  69.     23.2 0.2470 0.72 1.00 1.00  37.0 15.0 288.8 2.0 0 0.00  82. 1006.  7 NAD-SFC NoSubs
11 10 25 298  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235 0.72 1.00 0.00   0.0 15.0 288.2 2.0 0 0.00  84. 1006.  6 NAD-SFC NoSubs
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11 10 25 298  4   -1.3  0.076 -9.000 -9.000 -999.   50.     29.8  0.2160  0.72  1.00  0.50  272.0  15.0  287.9  2.0   0  0.00   86.  1006.   6 NAD-SFC NoSubs
11 10 25 298  5   -1.4  0.078 -9.000 -9.000 -999.   52.     30.4  0.2160  0.72  1.00  0.50  275.0  15.0  287.6  2.0   0  0.00   88.  1006.   5 NAD-SFC NoSubs
11 10 25 298  6   -1.4  0.078 -9.000 -9.000 -999.   52.     30.4  0.2160  0.72  1.00  0.50  274.0  15.0  287.4  2.0   0  0.00   90.  1006.   5 NAD-SFC NoSubs
11 10 25 298  7   -1.2  0.074 -9.000 -9.000 -999.   48.     29.3  0.2160  0.72  0.64  0.50  273.0  15.0  287.4  2.0   0  0.00   91.  1006.   5 NAD-SFC NoSubs
11 10 25 298  8   24.3 -9.000 -9.000 -9.000  143. -999. -99999.0  0.2235  0.72  0.33  0.00    0.0  15.0  287.6  2.0   0  0.00   91.  1006.   5 NAD-SFC NoSubs
11 10 25 298  9   70.6  0.106  0.880  0.007  347.   83.     -1.5  0.2720  0.72  0.24  0.50  315.0  15.0  288.5  2.0   0  0.00   87.  1006.   5 NAD-SFC NoSubs
11 10 25 298 10  106.9 -9.000 -9.000 -9.000  508. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  289.5  2.0   0  0.00   81.  1006.   5 NAD-SFC NoSubs
11 10 25 298 11  130.3  0.106  1.329  0.007  646.   83.     -1.0  0.1900  0.72  0.20  0.50  181.0  15.0  290.2  2.0   0  0.00   77.  1005.   5 NAD-SFC NoSubs
11 10 25 298 12  140.3  0.161  1.438  0.006  761.  156.     -2.7  0.1810  0.72  0.20  1.00  169.0  15.0  291.2  2.0   0  0.00   74.  1005.   5 NAD-SFC NoSubs
11 10 25 298 13  136.5 -9.000 -9.000 -9.000  859. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  292.4  2.0   0  0.00   70.  1004.   5 NAD-SFC NoSubs
11 10 25 298 14  118.9 -9.000 -9.000 -9.000  937. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  293.5  2.0   0  0.00   65.  1003.   5 NAD-SFC NoSubs
11 10 25 298 15   87.9  0.109  1.347  0.007  996.   86.     -1.3  0.2720  0.72  0.23  0.50  325.0  15.0  294.2  2.0   0  0.00   62.  1003.   5 NAD-SFC NoSubs
11 10 25 298 16   45.7  0.204  1.096  0.007 1030.  221.    -16.6  0.2930  0.72  0.29  1.50  355.0  15.0  294.5  2.0   0  0.00   60.  1003.   4 NAD-SFC NoSubs
11 10 25 298 17   -3.9  0.146 -9.000 -9.000 -999.  135.     71.2  0.2940  0.72  0.48  1.50   16.0  15.0  294.4  2.0   0  0.00   64.  1003.   3 NAD-SFC NoSubs
11 10 25 298 18   -3.9  0.101 -9.000 -9.000 -999.   78.     23.7  0.2940  0.72  1.00  1.00   11.0  15.0  293.4  2.0   0  0.00   68.  1004.   3 NAD-SFC NoSubs
11 10 25 298 19   -3.8  0.100 -9.000 -9.000 -999.   76.     23.3  0.2720  0.72  1.00  1.00  308.0  15.0  292.2  2.0   0  0.00   72.  1004.   3 NAD-SFC NoSubs
11 10 25 298 20  -15.8  0.196 -9.000 -9.000 -999.  207.     42.4  0.2720  0.72  1.00  2.10  309.0  15.0  291.1  2.0   0  0.00   72.  1005.   3 NAD-SFC NoSubs
11 10 25 298 21  -24.7  0.246 -9.000 -9.000 -999.  293.     54.1  0.2720  0.72  1.00  2.60  306.0  15.0  290.0  2.0   0  0.00   70.  1005.   3 NAD-SFC NoSubs
11 10 25 298 22  -24.8  0.246 -9.000 -9.000 -999.  293.     54.0  0.2720  0.72  1.00  2.60  325.0  15.0  289.0  2.0   0  0.00   69.  1006.   3 NAD-SFC NoSubs
11 10 25 298 23  -24.8  0.246 -9.000 -9.000 -999.  293.     54.0  0.2720  0.72  1.00  2.60  318.0  15.0  288.2  2.0   0  0.00   69.  1007.   3 NAD-SFC NoSubs
11 10 25 298 24  -24.8  0.246 -9.000 -9.000 -999.  293.     53.9  0.2720  0.72  1.00  2.60  307.0  15.0  287.4  2.0   0  0.00   70.  1007.   3 NAD-SFC NoSubs
11 10 26 299  1  -14.3  0.183 -9.000 -9.000 -999.  189.     38.4  0.2160  0.72  1.00  2.10  299.0  15.0  286.8  2.0   0  0.00   70.  1007.   3 NAD-SFC NoSubs
11 10 26 299  2  -14.5  0.183 -9.000 -9.000 -999.  187.     37.7  0.2160  0.72  1.00  2.10  289.0  15.0  286.1  2.0   0  0.00   69.  1007.   2 NAD-SFC NoSubs
11 10 26 299  3  -20.7  0.218 -9.000 -9.000 -999.  244.     44.8  0.1750  0.72  1.00  2.60  266.0  15.0  285.5  2.0   0  0.00   66.  1007.   2 NAD-SFC NoSubs
11 10 26 299  4  -28.7  0.263 -9.000 -9.000 -999.  324.     57.0  0.1750  0.72  1.00  3.10  257.0  15.0  284.9  2.0   0  0.00   64.  1007.   2 NAD-SFC NoSubs
11 10 26 299  5  -28.7  0.263 -9.000 -9.000 -999.  324.     56.8  0.1750  0.72  1.00  3.10  250.0  15.0  284.2  2.0   0  0.00   63.  1007.   2 NAD-SFC NoSubs
11 10 26 299  6  -28.8  0.263 -9.000 -9.000 -999.  324.     56.7  0.1750  0.72  1.00  3.10  249.0  15.0  283.5  2.0   0  0.00   62.  1008.   2 NAD-SFC NoSubs
11 10 26 299  7  -27.0  0.264 -9.000 -9.000 -999.  325.     61.0  0.1750  0.72  0.64  3.10  246.0  15.0  282.9  2.0   0  0.00   62.  1008.   2 NAD-SFC NoSubs
11 10 26 299  8   19.3  0.270  0.368  0.007   93.  337.    -92.0  0.2160  0.72  0.34  2.60  290.0  15.0  283.2  2.0   0  0.00   61.  1009.   2 NAD-SFC NoSubs
11 10 26 299  9   68.9  0.265  0.797  0.007  264.  327.    -24.3  0.2720  0.72  0.24  2.10  327.0  15.0  285.1  2.0   0  0.00   53.  1009.   2 NAD-SFC NoSubs
11 10 26 299 10  108.0  0.112  1.047  0.006  383.  110.     -1.2  0.2720  0.72  0.21  0.50  306.0  15.0  286.8  2.0   0  0.00   49.  1009.   2 NAD-SFC NoSubs
11 10 26 299 11  133.2  0.105  1.275  0.006  560.   81.     -1.0  0.1750  0.72  0.20  0.50  269.0  15.0  288.0  2.0   0  0.00   47.  1009.   2 NAD-SFC NoSubs
11 10 26 299 12  143.9  0.168  1.419  0.005  715.  165.     -3.0  0.2160  0.72  0.20  1.00  279.0  15.0  289.2  2.0   0  0.00   44.  1008.   2 NAD-SFC NoSubs
11 10 26 299 13  139.7  0.216  1.489  0.005  849.  241.     -6.5  0.2160  0.72  0.20  1.50  290.0  15.0  290.4  2.0   0  0.00   42.  1007.   2 NAD-SFC NoSubs
11 10 26 299 14  120.6  0.280  1.471  0.005  950.  356.    -16.4  0.2720  0.72  0.21  2.10  325.0  15.0  291.1  2.0   0  0.00   41.  1007.   2 NAD-SFC NoSubs
11 10 26 299 15   87.2  0.322  1.358  0.005 1032.  438.    -34.3  0.2930  0.72  0.23  2.60  342.0  15.0  291.6  2.0   0  0.00   41.  1006.   2 NAD-SFC NoSubs
11 10 26 299 16   41.3  0.304  1.072  0.006 1071.  402.    -60.7  0.2930  0.72  0.29  2.60  349.0  15.0  291.6  2.0   0  0.00   42.  1006.   2 NAD-SFC NoSubs
11 10 26 299 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.48  0.00    0.0  15.0  291.2  2.0   0  0.00   48.  1006.   2 NAD-SFC NoSubs
11 10 26 299 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  290.4  2.0   0  0.00   51.  1006.   2 NAD-SFC NoSubs
11 10 26 299 19   -1.5  0.080 -9.000 -9.000 -999.   55.     31.3  0.1950  0.72  1.00  0.50  217.0  15.0  289.1  2.0   0  0.00   57.  1007.   2 NAD-SFC NoSubs
11 10 26 299 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  287.9  2.0   0  0.00   62.  1007.   2 NAD-SFC NoSubs
11 10 26 299 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  286.9  2.0   0  0.00   67.  1007.   2 NAD-SFC NoSubs
11 10 26 299 22   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.1970  0.72  1.00  0.50  145.0  15.0  285.9  2.0   0  0.00   72.  1007.   2 NAD-SFC NoSubs
11 10 26 299 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  285.1  2.0   0  0.00   75.  1008.   2 NAD-SFC NoSubs
11 10 26 299 24   -4.0  0.101 -9.000 -9.000 -999.   77.     23.3  0.2720  0.72  1.00  1.00  305.0  15.0  284.8  2.0   0  0.00   74.  1008.   2 NAD-SFC NoSubs
11 10 27 300  1  -22.7  0.230 -9.000 -9.000 -999.  265.     48.3  0.2160  0.72  1.00  2.60  299.0  15.0  284.6  2.0   0  0.00   67.  1007.   2 NAD-SFC NoSubs
11 10 27 300  2  -30.4  0.278 -9.000 -9.000 -999.  351.     63.4  0.2160  0.72  1.00  3.10  299.0  15.0  284.1  2.0   0  0.00   62.  1007.   2 NAD-SFC NoSubs
11 10 27 300  3  -22.8  0.230 -9.000 -9.000 -999.  266.     48.2  0.2160  0.72  1.00  2.60  288.0  15.0  283.4  2.0   0  0.00   59.  1008.   2 NAD-SFC NoSubs
11 10 27 300  4  -22.8  0.230 -9.000 -9.000 -999.  265.     48.1  0.2160  0.72  1.00  2.60  277.0  15.0  282.9  2.0   0  0.00   58.  1008.   2 NAD-SFC NoSubs
11 10 27 300  5  -14.6  0.183 -9.000 -9.000 -999.  188.     37.5  0.2160  0.72  1.00  2.10  294.0  15.0  282.5  2.0   0  0.00   57.  1008.   2 NAD-SFC NoSubs
11 10 27 300  6   -8.2  0.137 -9.000 -9.000 -999.  122.     28.3  0.2720  0.72  1.00  1.50  308.0  15.0  282.0  2.0   0  0.00   58.  1008.   2 NAD-SFC NoSubs
11 10 27 300  7   -3.6  0.096 -9.000 -9.000 -999.   72.     22.4  0.2160  0.72  0.65  1.00  285.0  15.0  281.6  2.0   0  0.00   59.  1008.   2 NAD-SFC NoSubs
11 10 27 300  8   18.0  0.131  0.348  0.011   84.  114.    -11.3  0.2160  0.72  0.34  1.00  272.0  15.0  281.9  2.0   0  0.00   56.  1008.   2 NAD-SFC NoSubs
11 10 27 300  9   67.4  0.153  0.705  0.009  186.  143.     -4.8  0.2160  0.72  0.24  1.00  298.0  15.0  283.6  2.0   0  0.00   47.  1008.   2 NAD-SFC NoSubs
11 10 27 300 10  106.5 -9.000 -9.000 -9.000  316. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  285.6  2.0   0  0.00   43.  1008.   2 NAD-SFC NoSubs
11 10 27 300 11  131.9 -9.000 -9.000 -9.000  474. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  287.8  2.0   0  0.00   38.  1007.   2 NAD-SFC NoSubs
11 10 27 300 12  142.6 -9.000 -9.000 -9.000  651. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  289.2  2.0   0  0.00   36.  1006.   2 NAD-SFC NoSubs
11 10 27 300 13  138.5  0.116  1.432  0.007  761.   95.     -1.0  0.2720  0.72  0.20  0.50  305.0  15.0  290.6  2.0   0  0.00   35.  1006.   2 NAD-SFC NoSubs
11 10 27 300 14  119.5  0.115  1.412  0.007  845.   94.     -1.1  0.2930  0.72  0.21  0.50  335.0  15.0  291.6  2.0   0  0.00   34.  1005.   2 NAD-SFC NoSubs
11 10 27 300 15   86.1  0.168  1.293  0.007  900.  165.     -4.9  0.2940  0.72  0.23  1.00    4.0  15.0  292.1  2.0   0  0.00   34.  1005.   2 NAD-SFC NoSubs
11 10 27 300 16   40.2  0.258  1.012  0.008  924.  314.    -38.1  0.2940  0.72  0.29  2.10   25.0  15.0  291.9  2.0   0  0.00   29.  1005.   2 NAD-SFC NoSubs
11 10 27 300 17   -9.5  0.195 -9.000 -9.000 -999.  208.     70.2  0.2470  0.72  0.49  2.10   41.0  15.0  291.2  2.0   0  0.00   35.  1005.   2 NAD-SFC NoSubs
11 10 27 300 18   -7.1  0.128 -9.000 -9.000 -999.  111.     26.2  0.2090  0.72  1.00  1.50   75.0  15.0  290.0  2.0   0  0.00   40.  1005.   2 NAD-SFC NoSubs
11 10 27 300 19   -1.5  0.080 -9.000 -9.000 -999.   54.     31.1  0.1810  0.72  1.00  0.50  159.0  15.0  288.6  2.0   0  0.00   46.  1006.   2 NAD-SFC NoSubs
11 10 27 300 20   -1.5  0.080 -9.000 -9.000 -999.   55.     31.3  0.1900  0.72  1.00  0.50  209.0  15.0  287.2  2.0   0  0.00   51.  1006.   2 NAD-SFC NoSubs
11 10 27 300 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  286.4  2.0   0  0.00   55.  1006.   2 NAD-SFC NoSubs
11 10 27 300 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  285.6  2.0   0  0.00   59.  1007.   2 NAD-SFC NoSubs
11 10 27 300 23   -1.5  0.081 -9.000 -9.000 -999.   56.     31.6  0.2090  0.72  1.00  0.50   73.0  15.0  284.8  2.0   0  0.00   63.  1007.   2 NAD-SFC NoSubs
11 10 27 300 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  284.0  2.0   0  0.00   66.  1007.   2 NAD-SFC NoSubs
11 10 28 301  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  283.2  2.0   0  0.00   69.  1007.   2 NAD-SFC NoSubs
11 10 28 301  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  282.8  2.0   0  0.00   71.  1008.   2 NAD-SFC NoSubs
11 10 28 301  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  282.2  2.0   0  0.00   73.  1008.   2 NAD-SFC NoSubs
11 10 28 301  4   -1.6  0.082 -9.000 -9.000 -999.   56.     31.8  0.2160  0.72  1.00  0.50  290.0  15.0  281.8  2.0   0  0.00   74.  1008.   2 NAD-SFC NoSubs
11 10 28 301  5   -8.2  0.137 -9.000 -9.000 -999.  122.     28.2  0.2720  0.72  1.00  1.50  300.0  15.0  281.5  2.0   0  0.00   74.  1008.   2 NAD-SFC NoSubs
11 10 28 301  6  -16.3  0.195 -9.000 -9.000 -999.  207.     40.9  0.2720  0.72  1.00  2.10  305.0  15.0  281.4  2.0   0  0.00   74.  1009.   2 NAD-SFC NoSubs
11 10 28 301  7  -14.3  0.183 -9.000 -9.000 -999.  188.     38.5  0.2160  0.72  0.66  2.10  296.0  15.0  281.2  2.0   0  0.00   75.  1009.   2 NAD-SFC NoSubs
11 10 28 301  8   16.9  0.183  0.284  0.010   49.  187.    -32.5  0.2720  0.72  0.34  1.50  305.0  15.0  281.5  2.0   0  0.00   73.  1009.   2 NAD-SFC NoSubs
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11 10 28 301  9   66.4  0.209  0.660  0.009  156.  229.    -12.3  0.2720  0.72  0.25  1.50  313.0  15.0  284.2  2.0  0  0.00  56.  1009.  2 NAD-SFC NoSubs
11 10 28 301 10  105.4  0.161  0.978  0.009  319.  156.     -3.6  0.2160  0.72  0.21  1.00  297.0  15.0  286.1  2.0  0  0.00  50.  1009.  2 NAD-SFC NoSubs
11 10 28 301 11  130.8  0.109  1.184  0.007  457.   87.     -1.0  0.2160  0.72  0.20  0.50  297.0  15.0  288.1  2.0  0  0.00  45.  1009.  2 NAD-SFC NoSubs
11 10 28 301 12  141.7  0.116  1.310  0.006  571.   95.     -1.0  0.2720  0.72  0.20  0.50  308.0  15.0  290.2  2.0  0  0.00  37.  1008.  2 NAD-SFC NoSubs
11 10 28 301 13  137.6  0.116  1.366  0.006  667.   95.     -1.0  0.2720  0.72  0.20  0.50  321.0  15.0  291.5  2.0  0  0.00  34.  1008.  2 NAD-SFC NoSubs
11 10 28 301 14  118.4  0.175  1.379  0.006  795.  176.     -4.1  0.2930  0.72  0.21  1.00  336.0  15.0  292.2  2.0  0  0.00  33.  1007.  2 NAD-SFC NoSubs
11 10 28 301 15   85.1  0.218  1.275  0.006  876.  245.    -11.0  0.2930  0.72  0.23  1.50  346.0  15.0  292.8  2.0  0  0.00  32.  1007.  2 NAD-SFC NoSubs
11 10 28 301 16   39.3 -9.000 -9.000 -9.000  911. -999. -99999.0  0.2235  0.72  0.29  0.00    0.0  15.0  292.8  2.0  0  0.00  34.  1007.  2 NAD-SFC NoSubs
11 10 28 301 17   -5.9  0.143 -9.000 -9.000 -999.  130.    44.6  0.2940  0.72  0.50  1.50   10.0  15.0  292.2  2.0  0  0.00  38.  1007.  2 NAD-SFC NoSubs
11 10 28 301 18   -1.7  0.084 -9.000 -9.000 -999.   59.    32.0  0.2940  0.72  1.00  0.50   16.0  15.0  290.9  2.0  0  0.00  43.  1007.  2 NAD-SFC NoSubs
11 10 28 301 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  289.4  2.0  0  0.00  50.  1007.  2 NAD-SFC NoSubs
11 10 28 301 20   -1.5  0.080 -9.000 -9.000 -999.   54.    31.3  0.1900  0.72  1.00  0.50  198.0  15.0  288.1  2.0  0  0.00  55.  1008.  2 NAD-SFC NoSubs
11 10 28 301 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  287.1  2.0  0  0.00  59.  1008.  2 NAD-SFC NoSubs
11 10 28 301 22   -1.5  0.081 -9.000 -9.000 -999.   56.    31.5  0.2090  0.72  1.00  0.50   84.0  15.0  286.2  2.0  0  0.00  62.  1009.  2 NAD-SFC NoSubs
11 10 28 301 23   -1.5  0.081 -9.000 -9.000 -999.   56.    31.6  0.2090  0.72  1.00  0.50   80.0  15.0  285.2  2.0  0  0.00  67.  1009.  2 NAD-SFC NoSubs
11 10 28 301 24   -1.5  0.081 -9.000 -9.000 -999.   56.    31.6  0.2090  0.72  1.00  0.50   89.0  15.0  284.5  2.0  0  0.00  71.  1009.  2 NAD-SFC NoSubs
11 10 29 302  1   -1.5  0.082 -9.000 -9.000 -999.   56.    31.6  0.2090  0.72  1.00  0.50   79.0  15.0  283.9  2.0  0  0.00  73.  1008.  2 NAD-SFC NoSubs
11 10 29 302  2   -1.5  0.082 -9.000 -9.000 -999.   56.    31.6  0.2090  0.72  1.00  0.50   88.0  15.0  283.4  2.0  0  0.00  75.  1008.  2 NAD-SFC NoSubs
11 10 29 302  3   -1.5  0.082 -9.000 -9.000 -999.   56.    31.7  0.2090  0.72  1.00  0.50   89.0  15.0  282.9  2.0  0  0.00  76.  1008.  2 NAD-SFC NoSubs
11 10 29 302  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  282.2  2.0  0  0.00  79.  1008.  2 NAD-SFC NoSubs
11 10 29 302  5   -1.7  0.084 -9.000 -9.000 -999.   59.    32.2  0.2720  0.72  1.00  0.50  315.0  15.0  281.9  2.0  0  0.00  79.  1008.  2 NAD-SFC NoSubs
11 10 29 302  6   -1.6  0.082 -9.000 -9.000 -999.   56.    31.8  0.2160  0.72  1.00  0.50  294.0  15.0  281.8  2.0  0  0.00  78.  1009.  2 NAD-SFC NoSubs
11 10 29 302  7   -1.4  0.079 -9.000 -9.000 -999.   53.    30.9  0.1750  0.72  0.67  0.50  259.0  15.0  281.5  2.0  0  0.00  77.  1009.  2 NAD-SFC NoSubs
11 10 29 302  8   15.9  0.081  0.268  0.013   43.   55.     -3.0  0.1950  0.72  0.35  0.50  228.0  15.0  281.9  2.0  0  0.00  75.  1009.  2 NAD-SFC NoSubs
11 10 29 302  9   65.4 -9.000 -9.000 -9.000  154. -999. -99999.0  0.2235  0.72  0.25  0.00    0.0  15.0  284.9  2.0  0  0.00  62.  1009.  2 NAD-SFC NoSubs
11 10 29 302 10  104.5 -9.000 -9.000 -9.000  334. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  287.1  2.0  0  0.00  56.  1009.  2 NAD-SFC NoSubs
11 10 29 302 11  130.0 -9.000 -9.000 -9.000  474. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  289.2  2.0  0  0.00  48.  1009.  2 NAD-SFC NoSubs
11 10 29 302 12  140.6  0.110  1.315  0.009  582.   88.     -1.0  0.2160  0.72  0.20  0.50  295.0  15.0  290.5  2.0  0  0.00  43.  1008.  2 NAD-SFC NoSubs
11 10 29 302 13  136.4  0.115  1.368  0.009  674.   94.     -1.0  0.2720  0.72  0.20  0.50  306.0  15.0  291.6  2.0  0  0.00  42.  1007.  2 NAD-SFC NoSubs
11 10 29 302 14  117.3  0.172  1.351  0.010  755.  171.     -3.9  0.2720  0.72  0.21  1.00  326.0  15.0  292.5  2.0  0  0.00  40.  1006.  2 NAD-SFC NoSubs
11 10 29 302 15   84.0  0.167  1.236  0.010  808.  165.     -5.0  0.2930  0.72  0.23  1.00  343.0  15.0  293.0  2.0  0  0.00  39.  1006.  2 NAD-SFC NoSubs
11 10 29 302 16   38.3 -9.000 -9.000 -9.000  831. -999. -99999.0  0.2235  0.72  0.30  0.00    0.0  15.0  293.0  2.0  0  0.00  39.  1005.  2 NAD-SFC NoSubs
11 10 29 302 17   -2.5  0.089 -9.000 -9.000 -999.   64.    26.0  0.2470  0.72  0.50  1.00   32.0  15.0  292.5  2.0  0  0.00  44.  1005.  2 NAD-SFC NoSubs
11 10 29 302 18   -1.5  0.081 -9.000 -9.000 -999.   55.    31.4  0.2090  0.72  1.00  0.50   79.0  15.0  291.2  2.0  0  0.00  50.  1006.  2 NAD-SFC NoSubs
11 10 29 302 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  289.8  2.0  0  0.00  56.  1006.  2 NAD-SFC NoSubs
11 10 29 302 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  288.6  2.0  0  0.00  62.  1006.  2 NAD-SFC NoSubs
11 10 29 302 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  287.5  2.0  0  0.00  67.  1007.  2 NAD-SFC NoSubs
11 10 29 302 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  286.6  2.0  0  0.00  72.  1007.  2 NAD-SFC NoSubs
11 10 29 302 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  285.8  2.0  0  0.00  76.  1007.  2 NAD-SFC NoSubs
11 10 29 302 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  285.0  2.0  0  0.00  79.  1007.  2 NAD-SFC NoSubs
11 10 30 303  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  284.5  2.0  0  0.00  81.  1007.  2 NAD-SFC NoSubs
11 10 30 303  2   -1.7  0.084 -9.000 -9.000 -999.   59.    32.1  0.2720  0.72  1.00  0.50  315.0  15.0  284.2  2.0  0  0.00  80.  1007.  2 NAD-SFC NoSubs
11 10 30 303  3   -4.0  0.101 -9.000 -9.000 -999.   77.    23.3  0.2720  0.72  1.00  1.00  303.0  15.0  284.1  2.0  0  0.00  78.  1007.  2 NAD-SFC NoSubs
11 10 30 303  4   -7.3  0.129 -9.000 -9.000 -999.  111.    26.2  0.2160  0.72  1.00  1.50  296.0  15.0  284.0  2.0  0  0.00  76.  1007.  2 NAD-SFC NoSubs
11 10 30 303  5  -14.6  0.183 -9.000 -9.000 -999.  187.    37.6  0.2160  0.72  1.00  2.10  288.0  15.0  283.8  2.0  0  0.00  75.  1008.  2 NAD-SFC NoSubs
11 10 30 303  6  -14.6  0.183 -9.000 -9.000 -999.  187.    37.6  0.2160  0.72  1.00  2.10  286.0  15.0  283.6  2.0  0  0.00  75.  1008.  2 NAD-SFC NoSubs
11 10 30 303  7   -7.2  0.129 -9.000 -9.000 -999.  111.    26.6  0.2160  0.72  0.68  1.50  277.0  15.0  283.4  2.0  0  0.00  76.  1008.  2 NAD-SFC NoSubs
11 10 30 303  8   15.3  0.124  0.279  0.015   51.  104.    -11.1  0.1750  0.72  0.35  1.00  269.0  15.0  283.8  2.0  0  0.00  75.  1008.  2 NAD-SFC NoSubs
11 10 30 303  9   64.7  0.198  0.630  0.013  139.  212.    -10.8  0.2160  0.72  0.25  1.50  287.0  15.0  286.6  2.0  0  0.00  63.  1008.  2 NAD-SFC NoSubs
11 10 30 303 10  103.8  0.161  0.912  0.013  262.  155.     -3.6  0.2160  0.72  0.21  1.00  284.0  15.0  288.8  2.0  0  0.00  58.  1008.  2 NAD-SFC NoSubs
11 10 30 303 11  129.2  0.109  1.124  0.012  395.   87.     -1.0  0.2160  0.72  0.20  0.50  280.0  15.0  290.8  2.0  0  0.00  52.  1008.  2 NAD-SFC NoSubs
11 10 30 303 12  140.2 -9.000 -9.000 -9.000  493. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  292.8  2.0  0  0.00  46.  1007.  2 NAD-SFC NoSubs
11 10 30 303 13  136.2  0.115  1.295  0.010  573.   94.     -1.0  0.2720  0.72  0.20  0.50  313.0  15.0  294.4  2.0  0  0.00  40.  1006.  2 NAD-SFC NoSubs
11 10 30 303 14  117.2  0.172  1.274  0.009  633.  171.     -3.9  0.2720  0.72  0.21  1.00  318.0  15.0  295.2  2.0  0  0.00  38.  1006.  2 NAD-SFC NoSubs
11 10 30 303 15   83.9  0.218  1.167  0.009  679.  244.    -11.1  0.2930  0.72  0.23  1.50  333.0  15.0  295.8  2.0  0  0.00  38.  1005.  2 NAD-SFC NoSubs
11 10 30 303 16   38.3  0.201  0.909  0.009  703.  216.    -18.9  0.2930  0.72  0.30  1.50  349.0  15.0  295.8  2.0  0  0.00  42.  1005.  2 NAD-SFC NoSubs
11 10 30 303 17   -2.7  0.094 -9.000 -9.000 -999.   75.    27.6  0.2940  0.72  0.51  1.00   14.0  15.0  295.0  2.0  0  0.00  45.  1005.  2 NAD-SFC NoSubs
11 10 30 303 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  293.6  2.0  0  0.00  51.  1006.  2 NAD-SFC NoSubs
11 10 30 303 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  292.0  2.0  0  0.00  57.  1006.  2 NAD-SFC NoSubs
11 10 30 303 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  290.6  2.0  0  0.00  63.  1006.  2 NAD-SFC NoSubs
11 10 30 303 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  289.5  2.0  0  0.00  68.  1006.  2 NAD-SFC NoSubs
11 10 30 303 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  288.5  2.0  0  0.00  72.  1006.  2 NAD-SFC NoSubs
11 10 30 303 23   -1.5  0.081 -9.000 -9.000 -999.   55.    31.5  0.2090  0.72  1.00  0.50   79.0  15.0  287.8  2.0  0  0.00  75.  1006.  2 NAD-SFC NoSubs
11 10 30 303 24   -1.5  0.081 -9.000 -9.000 -999.   56.    31.5  0.2090  0.72  1.00  0.50   87.0  15.0  286.9  2.0  0  0.00  78.  1006.  2 NAD-SFC NoSubs
11 10 31 304  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  286.2  2.0  0  0.00  80.  1006.  2 NAD-SFC NoSubs
11 10 31 304  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  285.8  2.0  0  0.00  82.  1006.  2 NAD-SFC NoSubs
11 10 31 304  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  285.2  2.0  0  0.00  83.  1006.  2 NAD-SFC NoSubs
11 10 31 304  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  284.9  2.0  0  0.00  84.  1006.  2 NAD-SFC NoSubs
11 10 31 304  5   -1.5  0.082 -9.000 -9.000 -999.   56.    31.7  0.2160  0.72  1.00  0.50  290.0  15.0  284.8  2.0  0  0.00  83.  1006.  2 NAD-SFC NoSubs
11 10 31 304  6   -3.7  0.097 -9.000 -9.000 -999.   73.    22.4  0.2160  0.72  1.00  1.00  287.0  15.0  284.6  2.0  0  0.00  82.  1007.  2 NAD-SFC NoSubs
11 10 31 304  7   -3.6  0.097 -9.000 -9.000 -999.   72.    22.4  0.2160  0.72  0.69  1.00  295.0  15.0  284.4  2.0  0  0.00  82.  1007.  2 NAD-SFC NoSubs
11 10 31 304  8   14.5  0.082  0.261  0.014   44.   56.     -3.4  0.2160  0.72  0.35  0.50  281.0  15.0  284.5  2.0  0  0.00  82.  1007.  2 NAD-SFC NoSubs
11 10 31 304  9   63.6  0.104  0.644  0.011  150.   81.     -1.6  0.2720  0.72  0.25  0.50  306.0  15.0  287.0  2.0  0  0.00  75.  1007.  2 NAD-SFC NoSubs
11 10 31 304 10  102.7 -9.000 -9.000 -9.000  330. -999. -99999.0  0.2235  0.72  0.22  0.00    0.0  15.0  289.0  2.0  0  0.00  70.  1007.  2 NAD-SFC NoSubs
11 10 31 304 11  128.2 -9.000 -9.000 -9.000  461. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  291.1  2.0  0  0.00  63.  1006.  2 NAD-SFC NoSubs
11 10 31 304 12  139.0 -9.000 -9.000 -9.000  555. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  292.8  2.0  0  0.00  55.  1005.  2 NAD-SFC NoSubs
11 10 31 304 13  134.7 -9.000 -9.000 -9.000  634. -999. -99999.0  0.2235  0.72  0.20  0.00    0.0  15.0  293.8  2.0  0  0.00  52.  1004.  2 NAD-SFC NoSubs
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11 10 31 304 14   115.8  0.113  1.311  0.009   698.   91.     -1.1  0.2720  0.72  0.21   0.50  314.0  15.0  294.8  2.0   0  0.00   50.  1004.   2 NAD-SFC NoSubs
11 10 31 304 15    82.4  0.167  1.195  0.009   741.  164.     -5.1  0.2930  0.72  0.23   1.00  330.0  15.0  295.1  2.0   0  0.00   49.  1003.   2 NAD-SFC NoSubs
11 10 31 304 16    36.9  0.200  0.922  0.009   759.  215.    -19.4  0.2930  0.72  0.30   1.50  351.0  15.0  295.1  2.0   0  0.00   50.  1003.   2 NAD-SFC NoSubs
11 10 31 304 17    16.4 -9.000 -9.000 -9.000  -999. -999. -99999.0  0.2235  0.72  0.52   0.00    0.0  15.0  294.6  2.0   0  0.00   54.  1002.   2 NAD-SFC NoSubs
11 10 31 304 18    -4.0  0.102 -9.000 -9.000  -999.   78.     23.7  0.2940  0.72  1.00   1.00   13.0  15.0  293.2  2.0   0  0.00   59.  1003.   2 NAD-SFC NoSubs
11 10 31 304 19  -999.0 -9.000 -9.000 -9.000  -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  291.9  2.0   0  0.00   66.  1003.   2 NAD-SFC NoSubs
11 10 31 304 20  -999.0 -9.000 -9.000 -9.000  -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  290.6  2.0   0  0.00   72.  1003.   2 NAD-SFC NoSubs
11 10 31 304 21  -999.0 -9.000 -9.000 -9.000  -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  289.6  2.0   0  0.00   77.  1003.   2 NAD-SFC NoSubs
11 10 31 304 22  -999.0 -9.000 -9.000 -9.000  -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  288.8  2.0   0  0.00   80.  1003.   2 NAD-SFC NoSubs
11 10 31 304 23    -4.0  0.101 -9.000 -9.000  -999.   77.     23.3  0.2720  0.72  1.00   1.00  304.0  15.0  288.2  2.0   0  0.00   82.  1004.   2 NAD-SFC NoSubs
11 10 31 304 24    -8.0  0.137 -9.000 -9.000  -999.  122.     28.5  0.2720  0.72  1.00   1.50  307.0  15.0  287.8  2.0   0  0.00   81.  1004.   2 NAD-SFC NoSubs
11 11  1 305  1   -16.1  0.195 -9.000 -9.000  -999.  207.     41.4  0.2720  0.72  1.00   2.10  306.0  15.0  287.6  2.0   0  0.00   82.  1004.   2 NAD-SFC NoSubs
11 11  1 305  2    -8.1  0.137 -9.000 -9.000  -999.  122.     28.5  0.2720  0.72  1.00   1.50  310.0  15.0  287.2  2.0   0  0.00   86.  1004.   2 NAD-SFC NoSubs
11 11  1 305  3    -4.0  0.101 -9.000 -9.000  -999.   77.     23.3  0.2720  0.72  1.00   1.00  300.0  15.0  287.0  2.0   0  0.00   91.  1004.   2 NAD-SFC NoSubs
11 11  1 305  4    -3.7  0.097 -9.000 -9.000  -999.   73.     22.4  0.2160  0.72  1.00   1.00  297.0  15.0  286.6  2.0   0  0.00   95.  1004.   2 NAD-SFC NoSubs
11 11  1 305  5    -1.6  0.084 -9.000 -9.000  -999.   58.     32.1  0.2720  0.72  1.00   0.50  300.0  15.0  286.1  2.0   0  0.00   97.  1004.   2 NAD-SFC NoSubs
11 11  1 305  6  -999.0 -9.000 -9.000 -9.000  -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  285.2  2.0   0  0.00  100.  1005.   2 NAD-SFC NoSubs
11 11  1 305  7  -999.0 -9.000 -9.000 -9.000  -999. -999. -99999.0  0.2235  0.72  0.70   0.00    0.0  15.0  284.0  2.0   0  0.00  100.  1005.   3 NAD-SFC NoSubs
11 11  1 305  8    14.9  0.138  0.326  0.008    83.  122.    -15.6  0.2940  0.72  0.36   1.00    5.0  15.0  283.9  2.0   0  0.00  100.  1006.   3 NAD-SFC NoSubs
11 11  1 305  9    63.2  0.106  0.774  0.007   263.   83.     -1.7  0.2930  0.72  0.25   0.50  348.0  15.0  285.1  2.0   0  0.00   94.  1006.   3 NAD-SFC NoSubs
11 11  1 305 10   101.6 -9.000 -9.000 -9.000   407. -999. -99999.0  0.2235  0.72  0.22   0.00    0.0  15.0  286.8  2.0   0  0.00   84.  1006.   3 NAD-SFC NoSubs
11 11  1 305 11   126.2 -9.000 -9.000 -9.000   573. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  288.9  2.0   0  0.00   73.  1006.   2 NAD-SFC NoSubs
11 11  1 305 12   136.9  0.167  1.389  0.009   702.  164.     -3.0  0.2160  0.72  0.20   1.00  280.0  15.0  290.5  2.0   0  0.00   65.  1005.   2 NAD-SFC NoSubs
11 11  1 305 13   132.7  0.269  1.434  0.010   796.  335.    -13.2  0.2160  0.72  0.20   2.10  292.0  15.0  291.8  2.0   0  0.00   57.  1004.   2 NAD-SFC NoSubs
11 11  1 305 14   113.7  0.324  1.402  0.010   869.  443.    -26.8  0.2720  0.72  0.21   2.60  317.0  15.0  292.5  2.0   0  0.00   51.  1004.   2 NAD-SFC NoSubs
11 11  1 305 15    80.2  0.320  1.271  0.010   916.  434.    -36.4  0.2930  0.72  0.23   2.60  341.0  15.0  292.8  2.0   0  0.00   48.  1004.   2 NAD-SFC NoSubs
11 11  1 305 16    35.0  0.254  0.971  0.010   937.  310.    -42.1  0.2930  0.72  0.30   2.10  339.0  15.0  293.2  2.0   0  0.00   45.  1004.   2 NAD-SFC NoSubs
11 11  1 305 17    -6.5  0.142 -9.000 -9.000  -999.  135.     39.0  0.2930  0.72  0.52   1.50  331.0  15.0  292.9  2.0   0  0.00   47.  1004.   2 NAD-SFC NoSubs
11 11  1 305 18    -1.6  0.083 -9.000 -9.000  -999.   59.     31.9  0.2720  0.72  1.00   0.50  309.0  15.0  291.8  2.0   0  0.00   51.  1004.   2 NAD-SFC NoSubs
11 11  1 305 19    -1.4  0.079 -9.000 -9.000  -999.   54.     31.1  0.1810  0.72  1.00   0.50  156.0  15.0  290.4  2.0   0  0.00   56.  1005.   2 NAD-SFC NoSubs
11 11  1 305 20    -1.5  0.080 -9.000 -9.000  -999.   54.     31.2  0.1900  0.72  1.00   0.50  185.0  15.0  289.1  2.0   0  0.00   63.  1005.   2 NAD-SFC NoSubs
11 11  1 305 21    -3.5  0.095 -9.000 -9.000  -999.   70.     22.0  0.1900  0.72  1.00   1.00  187.0  15.0  288.0  2.0   0  0.00   68.  1005.   2 NAD-SFC NoSubs
11 11  1 305 22   -13.7  0.177 -9.000 -9.000  -999.  178.     36.1  0.1900  0.72  1.00   2.10  200.0  15.0  287.5  2.0   0  0.00   70.  1006.   2 NAD-SFC NoSubs
11 11  1 305 23   -21.6  0.224 -9.000 -9.000  -999.  255.     46.7  0.1950  0.72  1.00   2.60  232.0  15.0  287.2  2.0   0  0.00   67.  1007.   2 NAD-SFC NoSubs
11 11  1 305 24   -20.7  0.218 -9.000 -9.000  -999.  244.     44.9  0.1750  0.72  1.00   2.60  260.0  15.0  287.0  2.0   0  0.00   65.  1006.   2 NAD-SFC NoSubs
11 11  2 306  1   -14.5  0.183 -9.000 -9.000  -999.  188.     37.8  0.2160  0.72  1.00   2.10  274.0  15.0  286.4  2.0   0  0.00   64.  1007.   2 NAD-SFC NoSubs
11 11  2 306  2    -8.1  0.137 -9.000 -9.000  -999.  122.     28.4  0.2720  0.72  1.00   1.50  302.0  15.0  285.4  2.0   0  0.00   64.  1007.   2 NAD-SFC NoSubs
11 11  2 306  3    -4.1  0.103 -9.000 -9.000  -999.   79.     23.6  0.2930  0.72  1.00   1.00  351.0  15.0  284.5  2.0   0  0.00   64.  1007.   2 NAD-SFC NoSubs
11 11  2 306  4    -3.9  0.100 -9.000 -9.000  -999.   76.     22.9  0.2470  0.72  1.00   1.00   46.0  15.0  283.9  2.0   0  0.00   64.  1007.   2 NAD-SFC NoSubs
11 11  2 306  5   -14.4  0.181 -9.000 -9.000  -999.  185.     37.1  0.2090  0.72  1.00   2.10   77.0  15.0  283.6  2.0   0  0.00   63.  1008.   2 NAD-SFC NoSubs
11 11  2 306  6   -14.5  0.182 -9.000 -9.000  -999.  186.     37.3  0.2130  0.72  1.00   2.10   91.0  15.0  283.2  2.0   0  0.00   62.  1009.   2 NAD-SFC NoSubs
11 11  2 306  7   -14.4  0.182 -9.000 -9.000  -999.  186.     37.6  0.2130  0.72  0.71   2.10   96.0  15.0  282.9  2.0   0  0.00   61.  1009.   2 NAD-SFC NoSubs
11 11  2 306  8    12.0  0.220  0.251  0.009    47.  247.    -79.3  0.2130  0.72  0.36   2.10  111.0  15.0  282.9  2.0   0  0.00   59.  1009.   2 NAD-SFC NoSubs
11 11  2 306  9    61.0  0.249  0.650  0.009   162.  298.    -22.7  0.2130  0.72  0.25   2.10  106.0  15.0  285.8  2.0   0  0.00   48.  1009.   2 NAD-SFC NoSubs
11 11  2 306 10   100.2  0.261  0.967  0.008   325.  320.    -16.0  0.2130  0.72  0.22   2.10  108.0  15.0  288.9  2.0   0  0.00   34.  1009.   2 NAD-SFC NoSubs
11 11  2 306 11   125.9  0.310  1.179  0.008   469.  415.    -21.3  0.2130  0.72  0.20   2.60   96.0  15.0  291.6  2.0   0  0.00   27.  1009.   2 NAD-SFC NoSubs
11 11  2 306 12   136.9  0.356  1.309  0.007   589.  509.    -29.6  0.2130  0.72  0.20   3.10  103.0  15.0  293.6  2.0   0  0.00   23.  1008.   2 NAD-SFC NoSubs
11 11  2 306 13   132.8  0.440  1.370  0.007   696.  700.    -57.6  0.2130  0.72  0.20   4.10   99.0  15.0  294.9  2.0   0  0.00   22.  1007.   2 NAD-SFC NoSubs
11 11  2 306 14   113.7  0.436  1.356  0.007   789.  690.    -65.3  0.2130  0.72  0.21   4.10  112.0  15.0  295.5  2.0   0  0.00   23.  1007.   2 NAD-SFC NoSubs
11 11  2 306 15    80.1  0.383  1.237  0.008   848.  572.    -63.1  0.2130  0.72  0.23   3.60  108.0  15.0  295.2  2.0   0  0.00   29.  1006.   2 NAD-SFC NoSubs
11 11  2 306 16    34.2  0.322  0.940  0.007   870.  441.    -87.6  0.2130  0.72  0.31   3.10  110.0  15.0  294.1  2.0   0  0.00   38.  1006.   2 NAD-SFC NoSubs
11 11  2 306 17   -18.9  0.280 -9.000 -9.000  -999.  356.    104.1  0.2130  0.72  0.53   3.10  112.0  15.0  292.5  2.0   0  0.00   41.  1006.   2 NAD-SFC NoSubs
11 11  2 306 18   -43.9  0.410 -9.000 -9.000  -999.  629.    140.7  0.1970  0.72  1.00   4.60  122.0  15.0  289.9  2.0   0  0.00   45.  1006.   2 NAD-SFC NoSubs
11 11  2 306 19   -55.3  0.512 -9.000 -9.000  -999.  879.    218.1  0.1970  0.72  1.00   5.70  131.0  15.0  287.6  2.0   0  0.00   44.  1006.   2 NAD-SFC NoSubs
11 11  2 306 20   -55.6  0.512 -9.000 -9.000  -999.  880.    216.9  0.1970  0.72  1.00   5.70  139.0  15.0  286.1  2.0   0  0.00   42.  1007.   2 NAD-SFC NoSubs
11 11  2 306 21   -55.8  0.512 -9.000 -9.000  -999.  879.    216.2  0.1970  0.72  1.00   5.70  138.0  15.0  285.2  2.0   0  0.00   40.  1007.   2 NAD-SFC NoSubs
11 11  2 306 22   -55.9  0.512 -9.000 -9.000  -999.  879.    215.8  0.1970  0.72  1.00   5.70  140.0  15.0  284.8  2.0   0  0.00   40.  1007.   2 NAD-SFC NoSubs
11 11  2 306 23   -43.7  0.401 -9.000 -9.000  -999.  619.    132.3  0.1810  0.72  1.00   4.60  155.0  15.0  284.8  2.0   0  0.00   38.  1007.   2 NAD-SFC NoSubs
11 11  2 306 24   -33.9  0.311 -9.000 -9.000  -999.  421.     79.4  0.1810  0.72  1.00   3.60  170.0  15.0  284.9  2.0   0  0.00   37.  1007.   2 NAD-SFC NoSubs
11 11  3 307  1   -13.8  0.177 -9.000 -9.000  -999.  190.     35.9  0.1900  0.72  1.00   2.10  192.0  15.0  284.8  2.0   0  0.00   36.  1007.   2 NAD-SFC NoSubs
11 11  3 307  2    -1.5  0.081 -9.000 -9.000  -999.   61.     31.4  0.1950  0.72  1.00   0.50  218.0  15.0  284.5  2.0   0  0.00   37.  1006.   2 NAD-SFC NoSubs
11 11  3 307  3    -1.6  0.083 -9.000 -9.000  -999.   58.     32.0  0.2470  0.72  1.00   0.50   38.0  15.0  284.1  2.0   0  0.00   39.  1006.   2 NAD-SFC NoSubs
11 11  3 307  4    -1.6  0.083 -9.000 -9.000  -999.   58.     32.0  0.2470  0.72  1.00   0.50   36.0  15.0  283.8  2.0   0  0.00   41.  1006.   2 NAD-SFC NoSubs
11 11  3 307  5    -3.9  0.100 -9.000 -9.000  -999.   76.     22.9  0.2470  0.72  1.00   1.00   52.0  15.0  283.4  2.0   0  0.00   43.  1005.   2 NAD-SFC NoSubs
11 11  3 307  6    -4.1  0.103 -9.000 -9.000  -999.   79.     23.7  0.2940  0.72  1.00   1.00   14.0  15.0  282.8  2.0   0  0.00   46.  1005.   2 NAD-SFC NoSubs
11 11  3 307  7   -16.8  0.200 -9.000 -9.000  -999.  214.     42.4  0.2930  0.72  0.72   2.10  348.0  15.0  281.5  2.0   0  0.00   55.  1005.   2 NAD-SFC NoSubs
11 11  3 307  8    10.7  0.281  0.228  0.007    40.  358.   -186.5  0.2930  0.72  0.37   2.60  340.0  15.0  281.1  2.0   0  0.00   61.  1005.   2 NAD-SFC NoSubs
11 11  3 307  9    59.2  0.210  0.619  0.007   144.  232.    -13.9  0.2930  0.72  0.25   1.50  340.0  15.0  283.2  2.0   0  0.00   59.  1005.   2 NAD-SFC NoSubs
11 11  3 307 10    98.4  0.222  0.978  0.007   341.  251.    -10.0  0.2930  0.72  0.22   1.50  354.0  15.0  286.9  2.0   0  0.00   42.  1004.   2 NAD-SFC NoSubs
11 11  3 307 11   123.7  0.228  1.215  0.006   520.  261.     -8.5  0.2940  0.72  0.21   1.50    1.0  15.0  288.6  2.0   0  0.00   39.  1004.   2 NAD-SFC NoSubs
11 11  3 307 12   134.4  0.288  1.358  0.005   667.  371.    -15.9  0.2930  0.72  0.20   2.10  350.0  15.0  290.2  2.0   0  0.00   36.  1003.   2 NAD-SFC NoSubs
11 11  3 307 13   130.1  0.333  1.420  0.005   787.  462.    -25.5  0.2930  0.72  0.20   2.60  353.0  15.0  291.2  2.0   0  0.00   35.  1002.   2 NAD-SFC NoSubs
11 11  3 307 14   111.8  0.376  1.400  0.005   877.  552.    -42.3  0.2940  0.72  0.21   3.10    5.0  15.0  292.0  2.0   0  0.00   34.  1002.   3 NAD-SFC NoSubs
11 11  3 307 15    78.8 -9.000 -9.000 -9.000   935. -999. -99999.0  0.2235  0.72  0.24   0.00    0.0  15.0  292.2  2.0   0  0.00   35.  1001.   3 NAD-SFC NoSubs
11 11  3 307 16    33.7 -9.000 -9.000 -9.000   958. -999. -99999.0  0.2235  0.72  0.31   0.00    0.0  15.0  291.8  2.0   0  0.00   42.  1001.   3 NAD-SFC NoSubs
11 11  3 307 17     8.8 -9.000 -9.000 -9.000  -999. -999. -99999.0  0.2235  0.72  0.54   0.00    0.0  15.0  290.9  2.0   0  0.00   45.  1000.   3 NAD-SFC NoSubs
11 11  3 307 18   -16.1  0.200 -9.000 -9.000  -999.  215.     44.5  0.2930  0.72  1.00   2.10  354.0  15.0  290.0  2.0   0  0.00   48.  1001.   4 NAD-SFC NoSubs
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11	11	3	307	19	-8.0	0.140	-9.000	-9.000	-999.	126.	30.3	0.2930	0.72	1.00	1.50	334.0	15.0	289.0	2.0	0	0.00	58.	1001.	4	NAD-SFC	NoSubs
11	11	3	307	20	-3.9	0.101	-9.000	-9.000	-999.	77.	23.7	0.2930	0.72	1.00	1.00	350.0	15.0	287.8	2.0	0	0.00	70.	1002.	4	NAD-SFC	NoSubs
11	11	3	307	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	286.8	2.0	0	0.00	78.	1002.	4	NAD-SFC	NoSubs
11	11	3	307	22	-1.4	0.078	-9.000	-9.000	-999.	52.	30.5	0.1810	0.72	1.00	0.50	156.0	15.0	286.2	2.0	0	0.00	83.	1002.	4	NAD-SFC	NoSubs
11	11	3	307	23	-1.4	0.078	-9.000	-9.000	-999.	53.	30.7	0.1900	0.72	1.00	0.50	207.0	15.0	285.9	2.0	0	0.00	86.	1002.	4	NAD-SFC	NoSubs
11	11	3	307	24	-1.3	0.077	-9.000	-9.000	-999.	51.	30.2	0.1950	0.72	1.00	0.50	214.0	15.0	285.8	2.0	0	0.51	88.	1001.	5	NAD-SFC	NoSubs
11	11	4	308	1	-3.1	0.091	-9.000	-9.000	-999.	66.	21.6	0.1750	0.72	1.00	1.00	249.0	15.0	285.6	2.0	0	1.02	89.	1001.	5	NAD-SFC	NoSubs
11	11	4	308	2	-14.3	0.183	-9.000	-9.000	-999.	188.	38.3	0.2160	0.72	1.00	2.10	273.0	15.0	285.5	2.0	0	0.51	88.	1001.	3	NAD-SFC	NoSubs
11	11	4	308	3	-34.4	0.325	-9.000	-9.000	-999.	445.	89.3	0.2160	0.72	1.00	3.60	278.0	15.0	284.6	2.0	0	0.00	87.	1001.	3	NAD-SFC	NoSubs
11	11	4	308	4	-29.5	0.278	-9.000	-9.000	-999.	353.	65.0	0.2160	0.72	1.00	3.10	292.0	15.0	283.6	2.0	0	0.00	87.	1001.	3	NAD-SFC	NoSubs
11	11	4	308	5	-8.0	0.137	-9.000	-9.000	-999.	136.	28.7	0.2720	0.72	1.00	1.50	300.0	15.0	283.1	2.0	0	0.00	86.	1001.	3	NAD-SFC	NoSubs
11	11	4	308	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	283.0	2.0	0	0.00	85.	1001.	3	NAD-SFC	NoSubs
11	11	4	308	7	-1.4	0.079	-9.000	-9.000	-999.	54.	30.9	0.2090	0.72	0.73	0.50	85.0	15.0	283.0	2.0	0	0.00	85.	1001.	4	NAD-SFC	NoSubs
11	11	4	308	8	13.6	0.125	0.307	0.005	75.	106.	-12.9	0.1970	0.72	0.37	1.00	140.0	15.0	283.0	2.0	0	0.51	87.	1001.	5	NAD-SFC	NoSubs
11	11	4	308	9	10.9	0.219	0.333	0.005	121.	246.	-86.6	0.2160	0.72	0.26	2.10	292.0	15.0	283.2	2.0	0	1.27	88.	1001.	10	NAD-SFC	NoSubs
11	11	4	308	10	79.3	0.597	0.979	0.005	423.	1108.	-239.7	0.2720	0.72	0.22	5.70	316.0	15.0	283.2	2.0	0	1.02	84.	1001.	7	NAD-SFC	NoSubs
11	11	4	308	11	120.9	0.423	1.401	0.005	813.	690.	-56.1	0.2930	0.72	0.21	3.60	335.0	15.0	284.2	2.0	0	0.00	65.	1001.	4	NAD-SFC	NoSubs
11	11	4	308	12	131.0	0.509	1.577	0.005	1070.	871.	-89.9	0.2720	0.72	0.20	4.60	316.0	15.0	285.2	2.0	0	0.00	57.	1001.	4	NAD-SFC	NoSubs
11	11	4	308	13	28.7	0.533	0.963	0.005	1111.	933.	-471.3	0.2930	0.72	0.20	5.10	342.0	15.0	285.8	2.0	0	0.00	59.	1001.	10	NAD-SFC	NoSubs
11	11	4	308	14	23.8	0.639	0.913	0.005	1143.	1224.	-979.7	0.2930	0.72	0.21	6.20	354.0	15.0	285.6	2.0	0	0.00	62.	1001.	10	NAD-SFC	NoSubs
11	11	4	308	15	15.5	0.586	0.797	0.005	1165.	1082.	-1160.4	0.2930	0.72	0.24	5.70	350.0	15.0	285.9	2.0	0	0.00	58.	1000.	10	NAD-SFC	NoSubs
11	11	4	308	16	27.3	0.389	0.972	0.005	1200.	619.	-191.6	0.2930	0.72	0.31	3.60	344.0	15.0	286.0	2.0	0	0.00	60.	1000.	7	NAD-SFC	NoSubs
11	11	4	308	17	-18.6	0.300	-9.000	-9.000	-999.	401.	129.5	0.2720	0.72	0.54	3.10	315.0	15.0	285.8	2.0	0	0.00	62.	1000.	5	NAD-SFC	NoSubs
11	11	4	308	18	-45.6	0.448	-9.000	-9.000	-999.	719.	175.7	0.2720	0.72	1.00	4.60	305.0	15.0	284.5	2.0	0	0.00	65.	1001.	4	NAD-SFC	NoSubs
11	11	4	308	19	-47.5	0.447	-9.000	-9.000	-999.	718.	168.2	0.2720	0.72	1.00	4.60	306.0	15.0	283.2	2.0	0	0.00	68.	1001.	3	NAD-SFC	NoSubs
11	11	4	308	20	-42.4	0.397	-9.000	-9.000	-999.	602.	131.9	0.2720	0.72	1.00	4.10	316.0	15.0	282.2	2.0	0	0.00	69.	1002.	3	NAD-SFC	NoSubs
11	11	4	308	21	-42.5	0.397	-9.000	-9.000	-999.	600.	131.6	0.2720	0.72	1.00	4.10	308.0	15.0	281.8	2.0	0	0.00	70.	1003.	3	NAD-SFC	NoSubs
11	11	4	308	22	-37.2	0.347	-9.000	-9.000	-999.	491.	100.2	0.2720	0.72	1.00	3.60	307.0	15.0	281.2	2.0	0	0.00	71.	1003.	3	NAD-SFC	NoSubs
11	11	4	308	23	-29.9	0.278	-9.000	-9.000	-999.	354.	64.3	0.2160	0.72	1.00	3.10	297.0	15.0	280.8	2.0	0	0.00	71.	1004.	3	NAD-SFC	NoSubs
11	11	4	308	24	-29.9	0.278	-9.000	-9.000	-999.	352.	64.2	0.2160	0.72	1.00	3.10	288.0	15.0	280.2	2.0	0	0.00	72.	1004.	3	NAD-SFC	NoSubs
11	11	5	309	1	-30.0	0.278	-9.000	-9.000	-999.	351.	64.1	0.2160	0.72	1.00	3.10	289.0	15.0	279.8	2.0	0	0.00	73.	1004.	3	NAD-SFC	NoSubs
11	11	5	309	2	-30.0	0.278	-9.000	-9.000	-999.	351.	64.0	0.2160	0.72	1.00	3.10	290.0	15.0	279.4	2.0	0	0.00	73.	1004.	3	NAD-SFC	NoSubs
11	11	5	309	3	-30.8	0.278	-9.000	-9.000	-999.	351.	62.2	0.2160	0.72	1.00	3.10	289.0	15.0	279.0	2.0	0	0.00	73.	1004.	2	NAD-SFC	NoSubs
11	11	5	309	4	-30.9	0.278	-9.000	-9.000	-999.	351.	62.0	0.2160	0.72	1.00	3.10	290.0	15.0	278.5	2.0	0	0.00	73.	1004.	2	NAD-SFC	NoSubs
11	11	5	309	5	-22.9	0.230	-9.000	-9.000	-999.	266.	47.6	0.2160	0.72	1.00	2.60	277.0	15.0	278.0	2.0	0	0.00	73.	1005.	2	NAD-SFC	NoSubs
11	11	5	309	6	-14.7	0.183	-9.000	-9.000	-999.	188.	37.1	0.2160	0.72	1.00	2.10	271.0	15.0	277.6	2.0	0	0.00	74.	1006.	2	NAD-SFC	NoSubs
11	11	5	309	7	-13.4	0.173	-9.000	-9.000	-999.	172.	34.4	0.1750	0.72	0.74	2.10	249.0	15.0	277.2	2.0	0	0.00	74.	1006.	2	NAD-SFC	NoSubs
11	11	5	309	8	8.0	0.206	0.232	0.005	56.	225.	-98.1	0.1750	0.72	0.37	2.10	257.0	15.0	277.2	2.0	0	0.00	73.	1007.	2	NAD-SFC	NoSubs
11	11	5	309	9	56.1	0.260	0.720	0.005	239.	318.	-28.2	0.2720	0.72	0.26	2.10	325.0	15.0	279.2	2.0	0	0.00	60.	1008.	2	NAD-SFC	NoSubs
11	11	5	309	10	94.6	0.167	1.018	0.005	401.	168.	-4.4	0.2720	0.72	0.22	1.00	310.0	15.0	280.6	2.0	0	0.00	53.	1008.	2	NAD-SFC	NoSubs
11	11	5	309	11	119.6	0.108	1.275	0.005	623.	86.	-1.0	0.2160	0.72	0.21	0.50	282.0	15.0	281.8	2.0	0	0.00	48.	1008.	2	NAD-SFC	NoSubs
11	11	5	309	12	130.0	0.109	1.464	0.005	869.	86.	-1.0	0.2160	0.72	0.20	0.50	275.0	15.0	282.9	2.0	0	0.00	44.	1008.	2	NAD-SFC	NoSubs
11	11	5	309	13	125.7	0.158	1.534	0.005	1033.	151.	-2.8	0.1750	0.72	0.20	1.00	269.0	15.0	284.0	2.0	0	0.00	37.	1007.	2	NAD-SFC	NoSubs
11	11	5	309	14	106.5	0.161	1.495	0.005	1128.	156.	-3.5	0.2160	0.72	0.21	1.00	276.0	15.0	284.8	2.0	0	0.00	32.	1007.	2	NAD-SFC	NoSubs
11	11	5	309	15	73.3	0.162	1.344	0.005	1190.	157.	-5.2	0.2720	0.72	0.24	1.00	300.0	15.0	285.2	2.0	0	0.00	28.	1006.	2	NAD-SFC	NoSubs
11	11	5	309	16	28.2	0.147	0.984	0.005	1213.	136.	-10.2	0.2930	0.72	0.31	1.00	338.0	15.0	285.2	2.0	0	0.00	27.	1006.	2	NAD-SFC	NoSubs
11	11	5	309	17	-3.1	0.093	-9.000	-9.000	-999.	69.	23.3	0.2470	0.72	0.55	1.00	58.0	15.0	284.9	2.0	0	0.00	32.	1005.	2	NAD-SFC	NoSubs
11	11	5	309	18	-14.5	0.182	-9.000	-9.000	-999.	186.	37.4	0.2130	0.72	1.00	2.10	94.0	15.0	284.0	2.0	0	0.00	37.	1006.	2	NAD-SFC	NoSubs
11	11	5	309	19	-29.7	0.271	-9.000	-9.000	-999.	339.	60.1	0.1970	0.72	1.00	3.10	126.0	15.0	282.9	2.0	0	0.00	44.	1006.	2	NAD-SFC	NoSubs
11	11	5	309	20	-40.1	0.363	-9.000	-9.000	-999.	525.	107.3	0.1970	0.72	1.00	4.10	149.0	15.0	281.2	2.0	0	0.00	53.	1006.	2	NAD-SFC	NoSubs
11	11	5	309	21	-34.2	0.317	-9.000	-9.000	-999.	430.	83.8	0.1970	0.72	1.00	3.60	146.0	15.0	280.4	2.0	0	0.00	57.	1006.	3	NAD-SFC	NoSubs
11	11	5	309	22	-39.3	0.363	-9.000	-9.000	-999.	526.	109.7	0.1970	0.72	1.00	4.10	127.0	15.0	279.9	2.0	0	0.00	56.	1006.	3	NAD-SFC	NoSubs
11	11	5	309	23	-37.9	0.364	-9.000	-9.000	-999.	526.	113.9	0.1970	0.72	1.00	4.10	128.0	15.0	279.6	2.0	0	0.00	54.	1005.	4	NAD-SFC	NoSubs
11	11	5	309	24	-28.1	0.366	-9.000	-9.000	-999.	531.	156.1	0.1970	0.72	1.00	4.10	129.0	15.0	279.8	2.0	0	0.00	51.	1005.	8	NAD-SFC	NoSubs
11	11	6	310	1	-18.2	0.322	-9.000	-9.000	-999.	439.	164.2	0.1970	0.72	1.00	3.60	142.0	15.0	280.1	2.0	0	0.00	49.	1005.	10	NAD-SFC	NoSubs
11	11	6	310	2	-10.0	0.179	-9.000	-9.000	-999.	195.	51.7	0.1810	0.72	1.00	2.10	161.0	15.0	280.4	2.0	0	0.00	50.	1005.	10	NAD-SFC	NoSubs
11	11	6	310	3	-0.8	0.062	-9.000	-9.000	-999.	53.	25.6	0.1900	0.72	1.00	0.50	180.0	15.0	280.2	2.0	0	0.00	55.	1006.	10	NAD-SFC	NoSubs
11	11	6	310	4	-2.3	0.086	-9.000	-9.000	-999.	60.	24.4	0.2090	0.72	1.00	1.00	74.0	15.0	279.8	2.0	0	0.51	62.	1006.	10	NAD-SFC	NoSubs
11	11	6	310	5	-10.6	0.187	-9.000	-9.000	-999.	194.	55.3	0.2130	0.72	1.00	2.10	105.0	15.0	279.8	2.0	0	0.51	66.	1006.	10	NAD-SFC	NoSubs
11	11	6	310	6	-13.2	0.234	-9.000	-9.000	-999.	271.	86.8	0.2130	0.72	1.00	2.60	112.0	15.0	279.9	2.0	0	0.25	69.	1007.	10	NAD-SFC	NoSubs
11	11	6	310	7	-13.0	0.229	-9.000	-9.000	-999.	263.	83.4	0.1970	0.72	0.75	2.60	137.0	15.0	280.0	2.0	0	0.00	73.	1007.	10	NAD-SFC	NoSubs
11	11	6	310	8	-3.5	0.231	-9.000	-9.000	-999.	266.	314.2	0.1810	0.72	0.38	2.60	152.0	15.0	280.2	2.0	0	0.00	75.	1007.	10	NAD-SFC	NoSubs
11	11	6	310	9	47.3	0.277	0.701	0.006	262.	349.	-40.3	0.1810	0.72	0.26	2.60	158.0	15.0	281.2	2.0	0	0.00	74.	1007.	7	NAD-SFC	NoSubs
11	11	6	310	10	86.3	0.197	1.023	0.007	446.	213.	-8.0	0.1810	0.72	0.22	1.50	154.0	15.0	282.5	2.0	0	0.00	74.	1007.	6	NAD-SFC	NoSubs
11	11	6	310	11	115.0	-9.000	-9.000	-9.000	648.	-999.	-99999.0	0.2235	0.72	0.21	0.00	0.0	15.0	283.8	2.0	0	0.00	73.	1007.	5	NAD-SFC	NoSubs
11	11	6	310	12	128.6	0.116	1.383	0.006	738.	95.	-1.1	0.2930	0.72	0.20	0.50	353.0	15.0	284.8	2.0	0	0.00	70.	1006.	4	NAD-SFC	NoSubs
11	11	6	310	13	124.4	0.286	1.411	0.006	812.	366.	-16.8	0.2930	0.72	0.20	2.10	347.0	15.0	285.5	2.0	0	0.00	65.	1006.	4	NAD-SFC	NoSubs
11	11	6	310	14	106.5	0.374	1.371	0.005	870.	548.	-44.0	0.2930	0.72	0.21	3.10	347.0	15.0	285.9	2.0	0	0.00	61.	1006.	3	NAD-SFC	NoSubs
11	11	6	310	15	73.5	0.455	1.230	0.005	908.	737.	-115.1	0.2930	0.72	0.24	4.10	355.0	15.0	286.2	2.0	0	0.00	56.	1006.	4	NAD-SFC	NoSubs
11	11	6	310	16	26.1	0.388	0.875	0.005	922.	584.	-201.0	0.2940	0.72	0.32	3.60	4.0	15.0	287.1	2.0	0	0.00	58.	1005.	7	NAD-SFC	NoSubs
11	11	6	310	17	-19.7	0.351	-9.000	-9.000	-999.	501.	197.2	0.2720	0.72	0.56	3.60	309.0	15.0	286.1	2.0	0	0.25	70.	1005.	7	NAD-SFC	NoSubs
11	11	6	310	18	-36.3	0.373	-9.000	-9.000	-999.	547.	128.5	0.2160	0.72	1.00	4.10	286.0	15.0	285.0	2.0	0	0.25	78.	1006.	5	NAD-SFC	NoSubs
11	11	6	310	19	-33.9	0.347	-9.000	-9.000	-999.	492.	111.0	0.2720	0.72	1.00	3.60	305.0	15.0	284.2	2.0	0	0.25	81.	1007.	5	NAD-SFC	NoSubs
11	11	6	310	20	-29.1	0.297	-9.000	-9.000	-999.	390.	81.0	0.2720	0.72	1.00	3.10	317.0	15.0	283.6	2.0	0	0.00	83.	1008.	5	NAD-SFC	NoSubs
11	11	6	310	21	-24.7	0.252	-9.000	-9.000	-999.	305.	58.3	0.2930	0.72	1.00	2.60	330.0	15.0	283.0	2.0	0	0.00	85.	1008.	5	NAD-SFC	NoSubs
11	11	6	310	22	-15.6	0.201	-9.000	-9.000	-999.	217.	46.9	0.2930	0.72	1.00	2.10	335.0	15.0	282.5	2.0	0	0.00	85.	1009.	6	NAD-SFC	NoSubs
11	11	6	310	23	-15.0	0.197	-9.000	-9.000	-999.	209.	45.5	0.2720	0.72	1.00	2.10	321.0	15.0	282.0	2.0	0	0.00	87.	1009.	6	NAD-SFC	NoSubs

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11 11   6 310 24   -15.5  0.196 -9.000 -9.000 -999.  208.     43.7  0.2720  0.72  1.00   2.10  313.0  15.0  281.5  2.0    0   0.00   89.  1009.     5 NAD-SFC NoSubs
11 11   7 311  1    -7.7  0.137 -9.000 -9.000 -999.  122.     29.8  0.2720  0.72  1.00   1.50  300.0  15.0  281.2  2.0    0   0.00   90.  1010.     5 NAD-SFC NoSubs
11 11   7 311  2   -15.1  0.196 -9.000 -9.000 -999.  209.     45.4  0.2720  0.72  1.00   2.10  307.0  15.0  280.9  2.0    0   0.00   92.  1010.     6 NAD-SFC NoSubs
11 11   7 311  3   -21.2  0.248 -9.000 -9.000 -999.  296.     64.6  0.2720  0.72  1.00   2.60  320.0  15.0  280.4  2.0    0   0.00   94.  1011.     7 NAD-SFC NoSubs
11 11   7 311  4   -29.5  0.297 -9.000 -9.000 -999.  388.     80.0  0.2720  0.72  1.00   3.10  320.0  15.0  280.1  2.0    0   0.00   96.  1011.     5 NAD-SFC NoSubs
11 11   7 311  5   -31.1  0.297 -9.000 -9.000 -999.  388.     75.7  0.2720  0.72  1.00   3.10  319.0  15.0  279.5  2.0    0   0.00   99.  1012.     4 NAD-SFC NoSubs
11 11   7 311  6   -36.5  0.347 -9.000 -9.000 -999.  490.    103.1  0.2720  0.72  1.00   3.60  321.0  15.0  278.4  2.0    0   0.00  100.  1013.     4 NAD-SFC NoSubs
11 11   7 311  7   -32.5  0.296 -9.000 -9.000 -999.  388.     72.3  0.2720  0.72  0.77   3.10  329.0  15.0  277.8  2.0    0   0.00  100.  1014.     3 NAD-SFC NoSubs
11 11   7 311  8     7.9  0.367  0.258  0.005   79.   534.   -570.2  0.2720  0.72  0.38   3.60  327.0  15.0  278.2  2.0    0   0.00   94.  1014.     3 NAD-SFC NoSubs
11 11   7 311  9    55.2  0.496  0.742  0.005  268.   837.   -199.3  0.2930  0.72  0.26   4.60  345.0  15.0  280.2  2.0    0   0.00   75.  1014.     3 NAD-SFC NoSubs
11 11   7 311 10    93.3  0.415  1.104  0.005  523.   647.    -69.4  0.2930  0.72  0.22   3.60  339.0  15.0  281.2  2.0    0   0.00   66.  1015.     3 NAD-SFC NoSubs
11 11   7 311 11   117.3  0.330  1.377  0.005  805.   460.    -27.7  0.2930  0.72  0.21   2.60  336.0  15.0  282.2  2.0    0   0.00   62.  1014.     2 NAD-SFC NoSubs
11 11   7 311 12   127.7  0.228  1.521  0.005  997.   267.     -8.4  0.2930  0.72  0.20   1.50  344.0  15.0  283.2  2.0    0   0.00   57.  1014.     2 NAD-SFC NoSubs
11 11   7 311 13   123.4  0.176  1.579  0.005 1154.   178.     -4.0  0.2930  0.72  0.20   1.00  330.0  15.0  284.2  2.0    0   0.00   52.  1013.     2 NAD-SFC NoSubs
11 11   7 311 14   104.4  0.111  1.542  0.006 1271.    90.     -1.2  0.2720  0.72  0.21   0.50  319.0  15.0  285.0  2.0    0   0.00   49.  1013.     2 NAD-SFC NoSubs
11 11   7 311 15    71.1  0.106  1.382  0.007 1342.    83.     -1.5  0.2720  0.72  0.24   0.50  320.0  15.0  285.2  2.0    0   0.00   48.  1013.     2 NAD-SFC NoSubs
11 11   7 311 16    26.2 -9.000 -9.000 -9.000 1353. -999. -99999.0  0.2235  0.72  0.32   0.00    0.0  15.0  285.2  2.0    0   0.00   48.  1013.     2 NAD-SFC NoSubs
11 11   7 311 17  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.56   0.00    0.0  15.0  285.0  2.0    0   0.00   52.  1013.     2 NAD-SFC NoSubs
11 11   7 311 18  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  284.0  2.0    0   0.00   58.  1013.     2 NAD-SFC NoSubs
11 11   7 311 19    -3.5  0.095 -9.000 -9.000 -999.   70.     21.8  0.1810  0.72  1.00   1.00  154.0  15.0  283.0  2.0    0   0.00   63.  1014.     2 NAD-SFC NoSubs
11 11   7 311 20    -6.9  0.124 -9.000 -9.000 -999.  104.     24.7  0.1810  0.72  1.00   1.50  151.0  15.0  281.9  2.0    0   0.00   69.  1014.     2 NAD-SFC NoSubs
11 11   7 311 21   -14.2  0.178 -9.000 -9.000 -999.  180.     36.1  0.1970  0.72  1.00   2.10  147.0  15.0  281.0  2.0    0   0.00   73.  1014.     2 NAD-SFC NoSubs
11 11   7 311 22   -14.2  0.178 -9.000 -9.000 -999.  180.     36.0  0.1970  0.72  1.00   2.10  137.0  15.0  280.2  2.0    0   0.00   77.  1015.     2 NAD-SFC NoSubs
11 11   7 311 23   -14.2  0.178 -9.000 -9.000 -999.  180.     36.0  0.1970  0.72  1.00   2.10  127.0  15.0  279.5  2.0    0   0.00   81.  1015.     2 NAD-SFC NoSubs
11 11   7 311 24    -3.7  0.097 -9.000 -9.000 -999.   74.     22.2  0.1970  0.72  1.00   1.00  120.0  15.0  278.9  2.0    0   0.00   84.  1015.     2 NAD-SFC NoSubs
11 11   8 312  1  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  278.2  2.0    0   0.00   86.  1015.     2 NAD-SFC NoSubs
11 11   8 312  2    -1.7  0.085 -9.000 -9.000 -999.   59.     32.4  0.2720  0.72  1.00   0.50  319.0  15.0  277.9  2.0    0   0.00   87.  1015.     2 NAD-SFC NoSubs
11 11   8 312  3    -1.6  0.083 -9.000 -9.000 -999.   57.     31.9  0.2160  0.72  1.00   0.50  277.0  15.0  277.5  2.0    0   0.00   88.  1015.     2 NAD-SFC NoSubs
11 11   8 312  4    -6.9  0.123 -9.000 -9.000 -999.  103.     24.3  0.1750  0.72  1.00   1.50  268.0  15.0  277.1  2.0    0   0.00   89.  1016.     2 NAD-SFC NoSubs
11 11   8 312  5   -23.2  0.230 -9.000 -9.000 -999.  265.     47.5  0.2160  0.72  1.00   2.60  279.0  15.0  276.8  2.0    0   0.00   91.  1016.     2 NAD-SFC NoSubs
11 11   8 312  6   -14.9  0.182 -9.000 -9.000 -999.  188.     37.0  0.2160  0.72  1.00   2.10  292.0  15.0  276.4  2.0    0   0.00   93.  1016.     2 NAD-SFC NoSubs
11 11   8 312  7    -7.5  0.129 -9.000 -9.000 -999.  112.     25.9  0.2160  0.72  1.00   1.50  287.0  15.0  276.1  2.0    0   0.00   94.  1017.     2 NAD-SFC NoSubs
11 11   8 312  8     4.9  0.116  0.171  0.009   37.   94.    -28.6  0.2160  0.72  0.39   1.00  273.0  15.0  276.2  2.0    0   0.00   92.  1017.     2 NAD-SFC NoSubs
11 11   8 312  9    52.5  0.101  0.605  0.007  153.   77.     -1.8  0.2720  0.72  0.26   0.50  318.0  15.0  278.2  2.0    0   0.00   78.  1017.     2 NAD-SFC NoSubs
11 11   8 312 10    91.0 -9.000 -9.000 -9.000  292. -999. -99999.0  0.2235  0.72  0.22   0.00    0.0  15.0  280.1  2.0    0   0.00   70.  1017.     2 NAD-SFC NoSubs
11 11   8 312 11   116.1 -9.000 -9.000 -9.000  486. -999. -99999.0  0.2235  0.72  0.21   0.00    0.0  15.0  282.0  2.0    0   0.00   61.  1017.     2 NAD-SFC NoSubs
11 11   8 312 12   126.6 -9.000 -9.000 -9.000  690. -999. -99999.0  0.2235  0.72  0.20   0.00    0.0  15.0  283.2  2.0    0   0.00   58.  1016.     2 NAD-SFC NoSubs
11 11   8 312 13   122.4  0.114  1.376  0.008  771.   92.     -1.1  0.2720  0.72  0.21   0.50  319.0  15.0  284.6  2.0    0   0.00   53.  1015.     2 NAD-SFC NoSubs
11 11   8 312 14   103.4  0.169  1.336  0.008  834.  167.     -4.2  0.2720  0.72  0.21   1.00  327.0  15.0  285.8  2.0    0   0.00   48.  1014.     2 NAD-SFC NoSubs
11 11   8 312 15    70.4  0.213  1.193  0.008  874.  236.    -12.5  0.2930  0.72  0.24   1.50  343.0  15.0  286.2  2.0    0   0.00   46.  1014.     2 NAD-SFC NoSubs
11 11   8 312 16    25.5  0.294  0.856  0.008  888.  382.    -89.8  0.2930  0.72  0.32   2.60  358.0  15.0  286.1  2.0    0   0.00   47.  1014.     2 NAD-SFC NoSubs
11 11   8 312 17   -22.1  0.253 -9.000 -9.000 -999.  307.     66.7  0.2940  0.72  0.57   2.60    8.0  15.0  285.5  2.0    0   0.00   52.  1014.     2 NAD-SFC NoSubs
11 11   8 312 18    -7.8  0.133 -9.000 -9.000 -999.  125.     27.4  0.2470  0.72  1.00   1.50   32.0  15.0  284.4  2.0    0   0.00   57.  1014.     2 NAD-SFC NoSubs
11 11   8 312 19    -1.6  0.082 -9.000 -9.000 -999.   57.     31.6  0.2090  0.72  1.00   0.50   62.0  15.0  283.2  2.0    0   0.00   62.  1014.     2 NAD-SFC NoSubs
11 11   8 312 20  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  282.0  2.0    0   0.00   68.  1015.     2 NAD-SFC NoSubs
11 11   8 312 21  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  280.9  2.0    0   0.00   74.  1015.     2 NAD-SFC NoSubs
11 11   8 312 22  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  280.1  2.0    0   0.00   79.  1015.     2 NAD-SFC NoSubs
11 11   8 312 23  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  279.2  2.0    0   0.00   84.  1016.     2 NAD-SFC NoSubs
11 11   8 312 24  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  278.8  2.0    0   0.00   87.  1015.     2 NAD-SFC NoSubs
11 11   9 313  1    -1.6  0.082 -9.000 -9.000 -999.   57.     31.8  0.2090  0.72  1.00   0.50   60.0  15.0  278.2  2.0    0   0.00   89.  1015.     2 NAD-SFC NoSubs
11 11   9 313  2    -1.8  0.086 -9.000 -9.000 -999.   60.     32.5  0.2940  0.72  1.00   0.50   22.0  15.0  277.8  2.0    0   0.00   89.  1015.     2 NAD-SFC NoSubs
11 11   9 313  3    -4.2  0.103 -9.000 -9.000 -999.   80.     23.6  0.2930  0.72  1.00   1.00  354.0  15.0  277.5  2.0    0   0.00   90.  1015.     2 NAD-SFC NoSubs
11 11   9 313  4    -4.2  0.103 -9.000 -9.000 -999.   80.     23.6  0.2930  0.72  1.00   1.00  345.0  15.0  277.1  2.0    0   0.00   91.  1015.     2 NAD-SFC NoSubs
11 11   9 313  5    -8.6  0.140 -9.000 -9.000 -999.  125.     28.8  0.2930  0.72  1.00   1.50  331.0  15.0  276.9  2.0    0   0.00   91.  1015.     2 NAD-SFC NoSubs
11 11   9 313  6   -17.2  0.199 -9.000 -9.000 -999.  214.     41.8  0.2930  0.72  1.00   2.10  335.0  15.0  276.6  2.0    0   0.00   91.  1015.     2 NAD-SFC NoSubs
11 11   9 313  7    -8.3  0.137 -9.000 -9.000 -999.  123.     28.0  0.2720  0.72  1.00   1.50  326.0  15.0  276.4  2.0    0   0.00   89.  1016.     2 NAD-SFC NoSubs
11 11   9 313  8     3.9  0.119  0.127  0.010   19.   99.    -39.2  0.2720  0.72  0.39   1.00  321.0  15.0  276.2  2.0    0   0.00   87.  1016.     2 NAD-SFC NoSubs
11 11   9 313  9    51.5  0.203  0.541  0.008  112.  220.    -14.7  0.2720  0.72  0.26   1.50  324.0  15.0  279.0  2.0    0   0.00   64.  1016.     2 NAD-SFC NoSubs
11 11   9 313 10    89.9  0.216  0.874  0.008  269.  241.    -10.1  0.2720  0.72  0.22   1.50  302.0  15.0  280.8  2.0    0   0.00   59.  1015.     2 NAD-SFC NoSubs
11 11   9 313 11   115.1  0.171  1.103  0.008  422.  171.     -4.0  0.2720  0.72  0.21   1.00  321.0  15.0  283.0  2.0    0   0.00   52.  1015.     2 NAD-SFC NoSubs
11 11   9 313 12   125.9  0.176  1.249  0.009  560.  178.     -3.9  0.2930  0.72  0.20   1.00  338.0  15.0  285.0  2.0    0   0.00   47.  1014.     2 NAD-SFC NoSubs
11 11   9 313 13   121.9  0.176  1.310  0.008  667.  177.     -4.0  0.2930  0.72  0.21   1.00  353.0  15.0  286.9  2.0    0   0.00   41.  1013.     2 NAD-SFC NoSubs
11 11   9 313 14   103.0  0.223  1.280  0.008  735.  253.     -9.7  0.2940  0.72  0.22   1.50    2.0  15.0  288.1  2.0    0   0.00   37.  1013.     2 NAD-SFC NoSubs
11 11   9 313 15    69.9 -9.000 -9.000 -9.000  778. -999. -99999.0  0.2235  0.72  0.24   0.00    0.0  15.0  288.2  2.0    0   0.00   37.  1012.     2 NAD-SFC NoSubs
11 11   9 313 16    25.0  0.340  0.818  0.008  791.  476.   -142.3  0.2940  0.72  0.32   3.10   10.0  15.0  287.4  2.0    0   0.00   46.  1012.     2 NAD-SFC NoSubs
11 11   9 313 17   -31.4  0.356 -9.000 -9.000 -999.  510.    129.7  0.2940  0.72  0.58   3.60   26.0  15.0  286.2  2.0    0   0.00   50.  1011.     2 NAD-SFC NoSubs
11 11   9 313 18   -15.5  0.190 -9.000 -9.000 -999.  220.     39.7  0.2470  0.72  1.00   2.10   41.0  15.0  285.5  2.0    0   0.00   52.  1012.     2 NAD-SFC NoSubs
11 11   9 313 19    -7.8  0.133 -9.000 -9.000 -999.  118.     27.5  0.2470  0.72  1.00   1.50   51.0  15.0  285.0  2.0    0   0.00   53.  1012.     2 NAD-SFC NoSubs
11 11   9 313 20    -7.3  0.128 -9.000 -9.000 -999.  110.     26.1  0.2130  0.72  1.00   1.50  100.0  15.0  284.8  2.0    0   0.00   53.  1012.     2 NAD-SFC NoSubs
11 11   9 313 21   -14.4  0.181 -9.000 -9.000 -999.  185.     37.2  0.2090  0.72  1.00   2.10   88.0  15.0  284.4  2.0    0   0.00   52.  1012.     2 NAD-SFC NoSubs
11 11   9 313 22   -22.5  0.228 -9.000 -9.000 -999.  262.     47.6  0.2090  0.72  1.00   2.60   60.0  15.0  283.8  2.0    0   0.00   53.  1013.     2 NAD-SFC NoSubs
11 11   9 313 23   -31.8  0.288 -9.000 -9.000 -999.  371.     68.0  0.2470  0.72  1.00   3.10   37.0  15.0  283.2  2.0    0   0.00   56.  1013.     2 NAD-SFC NoSubs
11 11   9 313 24   -15.6  0.190 -9.000 -9.000 -999.  203.     39.5  0.2470  0.72  1.00   2.10   30.0  15.0  283.2  2.0    0   0.00   55.  1013.     2 NAD-SFC NoSubs
11 11  10 314  1    -7.8  0.133 -9.000 -9.000 -999.  118.     27.4  0.2470  0.72  1.00   1.50   42.0  15.0  283.4  2.0    0   0.00   52.  1013.     2 NAD-SFC NoSubs
11 11  10 314  2   -17.0  0.200 -9.000 -9.000 -999.  214.     42.3  0.2940  0.72  1.00   2.10   15.0  15.0  282.8  2.0    0   0.00   55.  1013.     2 NAD-SFC NoSubs
11 11  10 314  3   -33.6  0.303 -9.000 -9.000 -999.  400.     74.9  0.2940  0.72  1.00   3.10    8.0  15.0  282.2  2.0    0   0.00   59.  1013.     2 NAD-SFC NoSubs
11 11  10 314  4  -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  281.8  2.0    0   0.00   64.  1013.     2 NAD-SFC NoSubs
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11 11 10 314  5  -50.8  0.457 -9.000 -9.000 -999.  742.    170.0  0.2940  0.72  1.00   4.60   14.0  15.0  281.1   2.0    0   0.00   69.  1013.    2 NAD-SFC NoSubs
11 11 10 314  6  -45.2  0.406 -9.000 -9.000 -999.  623.    133.6  0.2940  0.72  1.00   4.10   16.0  15.0  280.8   2.0    0   0.00   71.  1013.    2 NAD-SFC NoSubs
11 11 10 314  7  -39.4  0.354 -9.000 -9.000 -999.  508.    101.9  0.2940  0.72  1.00   3.60   23.0  15.0  280.8   2.0    0   0.00   70.  1013.    2 NAD-SFC NoSubs
11 11 10 314  8    3.6  0.321  0.126  0.005   20.  437.   -821.2  0.2940  0.72  0.39   3.10    6.0  15.0  280.8   2.0    0   0.00   69.  1013.    2 NAD-SFC NoSubs
11 11 10 314  9   50.7  0.308  0.483  0.005   80.  411.    -52.2  0.2940  0.72  0.27   2.60    3.0  15.0  281.2   2.0    0   0.00   67.  1013.    2 NAD-SFC NoSubs
11 11 10 314 10   89.2  0.322  0.829  0.005  231.  439.    -34.0  0.2940  0.72  0.22   2.60    4.0  15.0  283.0   2.0    0   0.00   59.  1013.    2 NAD-SFC NoSubs
11 11 10 314 11  114.5  0.283  1.067  0.006  383.  363.    -17.9  0.2930  0.72  0.21   2.10  352.0  15.0  285.1   2.0    0   0.00   48.  1013.    2 NAD-SFC NoSubs
11 11 10 314 12  125.1  0.286  1.235  0.005  544.  366.    -16.8  0.2930  0.72  0.20   2.10  356.0  15.0  286.4   2.0    0   0.00   45.  1012.    2 NAD-SFC NoSubs
11 11 10 314 13  120.9 -9.000 -9.000 -9.000  671. -999. -99999.0  0.2235  0.72  0.21   0.00    0.0  15.0  287.2   2.0    0   0.00   44.  1011.    2 NAD-SFC NoSubs
11 11 10 314 14  101.8  0.326  1.321  0.005  815.  447.    -30.7  0.2940  0.72  0.22   2.60   12.0  15.0  287.6   2.0    0   0.00   46.  1010.    2 NAD-SFC NoSubs
11 11 10 314 15   68.6  0.362  1.196  0.005  898.  522.    -62.0  0.2940  0.72  0.24   3.10    6.0  15.0  287.2   2.0    0   0.00   53.  1009.    2 NAD-SFC NoSubs
11 11 10 314 16   23.8  0.340  0.849  0.005  923.  475.   -147.7  0.2940  0.72  0.33   3.10   20.0  15.0  286.5   2.0    0   0.00   58.  1009.    2 NAD-SFC NoSubs
11 11 10 314 17  -26.0  0.290 -9.000 -9.000 -999.  375.    84.0  0.2470  0.72  0.58   3.10   35.0  15.0  285.8   2.0    0   0.00   61.  1008.    2 NAD-SFC NoSubs
11 11 10 314 18  -31.4  0.288 -9.000 -9.000 -999.  371.    68.6  0.2470  0.72  1.00   3.10   31.0  15.0  285.5   2.0    0   0.00   60.  1008.    2 NAD-SFC NoSubs
11 11 10 314 19  -26.2  0.252 -9.000 -9.000 -999.  303.    54.6  0.2940  0.72  1.00   2.60   14.0  15.0  285.8   2.0    0   0.00   57.  1007.    2 NAD-SFC NoSubs
11 11 10 314 20   -1.5  0.081 -9.000 -9.000 -999.   92.    31.5  0.2090  0.72  1.00   0.50   68.0  15.0  287.0   2.0    0   0.00   49.  1007.    2 NAD-SFC NoSubs
11 11 10 314 21   -1.6  0.083 -9.000 -9.000 -999.   57.    31.9  0.2470  0.72  1.00   0.50   46.0  15.0  287.1   2.0    0   0.00   47.  1007.    2 NAD-SFC NoSubs
11 11 10 314 22   -1.6  0.083 -9.000 -9.000 -999.   57.    31.9  0.2470  0.72  1.00   0.50   36.0  15.0  287.1   2.0    0   0.00   46.  1007.    2 NAD-SFC NoSubs
11 11 10 314 23   -4.1  0.103 -9.000 -9.000 -999.   79.    23.7  0.2940  0.72  1.00   1.00   24.0  15.0  286.8   2.0    0   0.00   47.  1007.    2 NAD-SFC NoSubs
11 11 10 314 24   -4.1  0.103 -9.000 -9.000 -999.   79.    23.7  0.2940  0.72  1.00   1.00    8.0  15.0  286.4   2.0    0   0.00   49.  1007.    2 NAD-SFC NoSubs
11 11 11 315  1   -4.1  0.103 -9.000 -9.000 -999.   79.    23.7  0.2940  0.72  1.00   1.00   11.0  15.0  286.2   2.0    0   0.00   50.  1006.    2 NAD-SFC NoSubs
11 11 11 315  2   -8.4  0.140 -9.000 -9.000 -999.  126.    29.3  0.2940  0.72  1.00   1.50   12.0  15.0  286.1   2.0    0   0.00   51.  1006.    2 NAD-SFC NoSubs
11 11 11 315  3   -4.0  0.102 -9.000 -9.000 -999.   78.    23.7  0.2940  0.72  1.00   1.00   11.0  15.0  286.1   2.0    0   0.00   51.  1006.    3 NAD-SFC NoSubs
11 11 11 315  4   -8.1  0.140 -9.000 -9.000 -999.  125.    30.2  0.2930  0.72  1.00   1.50  331.0  15.0  285.6   2.0    0   0.00   55.  1006.    4 NAD-SFC NoSubs
11 11 11 315  5  -31.0  0.303 -9.000 -9.000 -999.  401.    80.7  0.2930  0.72  1.00   3.10  348.0  15.0  284.8   2.0    0   0.00   62.  1006.    4 NAD-SFC NoSubs
11 11 11 315  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  284.4   2.0    0   0.00   67.  1006.    4 NAD-SFC NoSubs
11 11 11 315  7  -29.6  0.304 -9.000 -9.000 -999.  402.    84.8  0.2930  0.72  1.00   3.10  357.0  15.0  284.1   2.0    0   0.00   71.  1006.    5 NAD-SFC NoSubs
11 11 11 315  8    7.5  0.129  0.186  0.005   30.  140.   -25.3  0.2940  0.72  0.40   1.00   10.0  15.0  284.6   2.0    0   0.00   70.  1006.    5 NAD-SFC NoSubs
11 11 11 315  9   48.6  0.095  0.608  0.005  166.   71.    -1.6  0.2090  0.72  0.27   0.50   61.0  15.0  284.9   2.0    0   0.00   70.  1005.    6 NAD-SFC NoSubs
11 11 11 315 10   81.9  0.156  1.397  0.005 1195.  148.    -4.1  0.2130  0.72  0.22   1.00  102.0  15.0  285.5   2.0    0   0.00   69.  1005.    6 NAD-SFC NoSubs
11 11 11 315 11  110.2  0.264  1.614  0.007 1369.  325.   -14.9  0.2130  0.72  0.21   2.10  113.0  15.0  286.4   2.0    0   0.00   68.  1004.    5 NAD-SFC NoSubs
11 11 11 315 12  124.0  0.515  1.703  0.007 1425.  888.   -98.7  0.1970  0.72  0.20   5.10  120.0  15.0  288.2   2.0    0   0.00   64.  1002.    4 NAD-SFC NoSubs
11 11 11 315 13  120.4  0.566  1.707  0.007 1478. 1020.  -134.4  0.1970  0.72  0.21   5.70  126.0  15.0  290.2   2.0    0   0.00   61.  1001.    4 NAD-SFC NoSubs
11 11 11 315 14  102.2  0.511  1.633  0.007 1522.  880.  -116.2  0.1970  0.72  0.22   5.10  127.0  15.0  291.2   2.0    0   0.00   60.  1000.    4 NAD-SFC NoSubs
11 11 11 315 15   70.2  0.502  1.450  0.007 1551.  853.  -160.4  0.1970  0.72  0.24   5.10  134.0  15.0  291.2   2.0    0   0.00   62.  1000.    4 NAD-SFC NoSubs
11 11 11 315 16   27.0  0.673  1.058  0.007 1562. 1324. -1005.0  0.1970  0.72  0.33   7.20  126.0  15.0  290.8   2.0    0   0.00   66.   999.    5 NAD-SFC NoSubs
11 11 11 315 17  -63.7  0.858 -9.000 -9.000 -999. 1902.   883.8  0.1970  0.72  0.59   9.30  138.0  15.0  289.1   2.0    0   0.00   71.   999.    5 NAD-SFC NoSubs
11 11 11 315 18  -64.0  0.747 -9.000 -9.000 -999. 1571.   580.4  0.1970  0.72  1.00   8.20  141.0  15.0  288.4   2.0    0   0.00   72.   999.    5 NAD-SFC NoSubs
11 11 11 315 19  -58.1  0.608 -9.000 -9.000 -999. 1164.   344.4  0.1970  0.72  1.00   6.70  136.0  15.0  288.0   2.0    0   0.00   74.   999.    5 NAD-SFC NoSubs
11 11 11 315 20  -58.1  0.608 -9.000 -9.000 -999. 1138.   344.0  0.1970  0.72  1.00   6.70  136.0  15.0  287.8   2.0    0   0.00   75.   999.    5 NAD-SFC NoSubs
11 11 11 315 21  -46.4  0.562 -9.000 -9.000 -999. 1015.   340.9  0.1970  0.72  1.00   6.20  138.0  15.0  287.4   2.0    0   0.25   80.   999.    7 NAD-SFC NoSubs
11 11 11 315 22  -22.8  0.415 -9.000 -9.000 -999.  662.   280.8  0.1970  0.72  1.00   4.60  141.0  15.0  287.1   2.0    0   0.51   83.   999.   10 NAD-SFC NoSubs
11 11 11 315 23  -22.6  0.273 -9.000 -9.000 -999.  359.    80.3  0.1970  0.72  1.00   3.10  136.0  15.0  287.1   2.0    0   0.51   83.   999.    7 NAD-SFC NoSubs
11 11 11 315 24  -19.9  0.226 -9.000 -9.000 -999.  259.    51.9  0.1970  0.72  1.00   2.60  136.0  15.0  287.0   2.0    0   0.25   83.   999.    6 NAD-SFC NoSubs
11 11 12 316  1  -19.8  0.226 -9.000 -9.000 -999.  258.    51.9  0.1970  0.72  1.00   2.60  147.0  15.0  287.0   2.0    0   0.00   83.   998.    6 NAD-SFC NoSubs
11 11 12 316  2  -23.9  0.267 -9.000 -9.000 -999.  330.    70.5  0.1810  0.72  1.00   3.10  150.0  15.0  287.0   2.0    0   0.00   82.   998.    6 NAD-SFC NoSubs
11 11 12 316  3  -11.8  0.176 -9.000 -9.000 -999.  181.    41.3  0.1810  0.72  1.00   2.10  167.0  15.0  287.0   2.0    0   0.00   81.   998.    7 NAD-SFC NoSubs
11 11 12 316  4   -2.8  0.088 -9.000 -9.000 -999.   66.    21.6  0.1750  0.72  1.00   1.00  244.0  15.0  286.9   2.0    0   0.00   82.   998.    7 NAD-SFC NoSubs
11 11 12 316  5   -3.0  0.091 -9.000 -9.000 -999.   66.    22.5  0.2160  0.72  1.00   1.00  282.0  15.0  286.8   2.0    0   0.00   83.   999.    7 NAD-SFC NoSubs
11 11 12 316  6   -3.3  0.096 -9.000 -9.000 -999.   71.    23.8  0.2720  0.72  1.00   1.00  307.0  15.0  286.8   2.0    0   0.00   84.   999.    7 NAD-SFC NoSubs
11 11 12 316  7  -11.0  0.200 -9.000 -9.000 -999.  215.    65.0  0.2720  0.72  1.00   2.10  326.0  15.0  286.6   2.0    0   0.00   87.  1000.   10 NAD-SFC NoSubs
11 11 12 316  8    5.1  0.274  0.186  0.005   45.  344.  -356.1  0.2930  0.72  0.40   2.60  349.0  15.0  286.6   2.0    0   0.00   88.  1000.    8 NAD-SFC NoSubs
11 11 12 316  9   50.9  0.207  0.835  0.005  407.  227.   -15.4  0.2930  0.72  0.27   1.50  349.0  15.0  287.8   2.0    0   0.00   76.  1000.    5 NAD-SFC NoSubs
11 11 12 316 10   86.9  0.276  1.143  0.005  614.  348.   -21.6  0.2930  0.72  0.23   2.10  334.0  15.0  289.1   2.0    0   0.00   69.  1001.    5 NAD-SFC NoSubs
11 11 12 316 11  110.2  0.329  1.398  0.005  886.  452.   -28.7  0.2930  0.72  0.21   2.60  344.0  15.0  289.9   2.0    0   0.00   66.  1001.    5 NAD-SFC NoSubs
11 11 12 316 12  123.7  0.332  1.538  0.005 1050.  459.   -26.4  0.2930  0.72  0.21   2.60  336.0  15.0  290.4   2.0    0   0.00   65.  1000.    4 NAD-SFC NoSubs
11 11 12 316 13  120.7  0.213  1.574  0.005 1153.  243.    -7.1  0.2160  0.72  0.21   1.50  298.0  15.0  291.2   2.0    0   0.00   62.   999.    3 NAD-SFC NoSubs
11 11 12 316 14  102.0  0.321  1.522  0.005 1233.  437.   -28.9  0.2720  0.72  0.22   2.60  315.0  15.0  291.8   2.0    0   0.00   59.   999.    3 NAD-SFC NoSubs
11 11 12 316 15   69.3  0.408  1.357  0.005 1284.  624.   -87.0  0.2930  0.72  0.25   3.60  331.0  15.0  291.8   2.0    0   0.00   60.   998.    3 NAD-SFC NoSubs
11 11 12 316 16   25.3  0.341  0.975  0.005 1302.  480.  -138.7  0.2930  0.72  0.33   3.10  342.0  15.0  291.5   2.0    0   0.00   66.   998.    3 NAD-SFC NoSubs
11 11 12 316 17  -32.8  0.408 -9.000 -9.000 -999.  625.   184.5  0.2930  0.72  0.59   4.10  351.0  15.0  290.4   2.0    0   0.00   76.   999.    4 NAD-SFC NoSubs
11 11 12 316 18  -40.7  0.406 -9.000 -9.000 -999.  621.   146.7  0.2930  0.72  1.00   4.10  348.0  15.0  288.9   2.0    0   0.00   85.   999.    4 NAD-SFC NoSubs
11 11 12 316 19  -33.9  0.355 -9.000 -9.000 -999.  510.   117.6  0.2930  0.72  1.00   3.60  338.0  15.0  288.2   2.0    0   0.00   88.  1000.    5 NAD-SFC NoSubs
11 11 12 316 20  -34.0  0.355 -9.000 -9.000 -999.  508.   117.4  0.2930  0.72  1.00   3.60  330.0  15.0  287.5   2.0    0   0.00   90.  1000.    5 NAD-SFC NoSubs
11 11 12 316 21  -33.4  0.347 -9.000 -9.000 -999.  492.   112.0  0.2720  0.72  1.00   3.60  327.0  15.0  286.8   2.0    0   0.00   92.  1000.    5 NAD-SFC NoSubs
11 11 12 316 22  -30.7  0.303 -9.000 -9.000 -999.  402.    81.0  0.2930  0.72  1.00   3.10  341.0  15.0  286.0   2.0    0   0.00   94.  1001.    4 NAD-SFC NoSubs
11 11 12 316 23  -30.1  0.297 -9.000 -9.000 -999.  388.    77.4  0.2720  0.72  1.00   3.10  328.0  15.0  285.4   2.0    0   0.00   96.  1001.    4 NAD-SFC NoSubs
11 11 12 316 24  -30.2  0.297 -9.000 -9.000 -999.  388.    77.2  0.2720  0.72  1.00   3.10  328.0  15.0  284.8   2.0    0   0.00   96.  1001.    4 NAD-SFC NoSubs
11 11 13 317  1  -28.8  0.297 -9.000 -9.000 -999.  389.    81.2  0.2720  0.72  1.00   3.10  317.0  15.0  284.2   2.0    0   0.00   97.  1001.    5 NAD-SFC NoSubs
11 11 13 317  2  -28.9  0.297 -9.000 -9.000 -999.  389.    81.1  0.2720  0.72  1.00   3.10  312.0  15.0  283.8   2.0    0   0.00   96.  1002.    5 NAD-SFC NoSubs
11 11 13 317  3  -23.9  0.247 -9.000 -9.000 -999.  295.    56.2  0.2720  0.72  1.00   2.60  305.0  15.0  283.6   2.0    0   0.00   94.  1002.    5 NAD-SFC NoSubs
11 11 13 317  4  -13.8  0.184 -9.000 -9.000 -999.  190.    40.1  0.2160  0.72  1.00   2.10  281.0  15.0  283.6   2.0    0   0.00   92.  1002.    5 NAD-SFC NoSubs
11 11 13 317  5   -6.9  0.129 -9.000 -9.000 -999.  111.    27.6  0.2160  0.72  1.00   1.50  278.0  15.0  283.8   2.0    0   0.00   89.  1002.    5 NAD-SFC NoSubs
11 11 13 317  6   -3.3  0.093 -9.000 -9.000 -999.   68.    21.6  0.1750  0.72  1.00   1.00  244.0  15.0  283.9   2.0    0   0.00   86.  1002.    4 NAD-SFC NoSubs
11 11 13 317  7   -3.4  0.094 -9.000 -9.000 -999.   69.    22.0  0.1950  0.72  1.00   1.00  233.0  15.0  284.0   2.0    0   0.00   85.  1003.    4 NAD-SFC NoSubs
11 11 13 317  8    4.6  0.110  0.187  0.010   50.   88.   -25.9  0.1750  0.72  0.41   1.00  254.0  15.0  284.0   2.0    0   0.00   84.  1003.    4 NAD-SFC NoSubs
11 11 13 317  9   49.9  0.155  0.638  0.008  186.  146.    -6.7  0.2720  0.72  0.27   1.00  313.0  15.0  284.8   2.0    0   0.00   77.  1003.    4 NAD-SFC NoSubs
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11	11	13	317	10	87.2	-9.000	-9.000	-9.000	306.	-999.	-99999.0	0.2235	0.72	0.23	0.00	0.0	15.0	286.2	2.0	0	0.00	70.	1003.	4	NAD-SFC NoSubs
11	11	13	317	11	112.5	-9.000	-9.000	-9.000	434.	-999.	-99999.0	0.2235	0.72	0.21	0.00	0.0	15.0	287.5	2.0	0	0.00	65.	1003.	3	NAD-SFC NoSubs
11	11	13	317	12	123.1	-9.000	-9.000	-9.000	599.	-999.	-99999.0	0.2235	0.72	0.21	0.00	0.0	15.0	288.8	2.0	0	0.00	61.	1002.	3	NAD-SFC NoSubs
11	11	13	317	13	119.0	0.164	1.355	0.005	748.	159.	-3.3	0.2160	0.72	0.21	1.00	293.0	15.0	289.5	2.0	0	0.00	58.	1002.	3	NAD-SFC NoSubs
11	11	13	317	14	100.4	0.219	1.346	0.005	869.	246.	-9.3	0.2720	0.72	0.22	1.50	301.0	15.0	290.1	2.0	0	0.00	56.	1002.	3	NAD-SFC NoSubs
11	11	13	317	15	67.9	0.265	1.215	0.005	942.	327.	-24.4	0.2720	0.72	0.25	2.10	325.0	15.0	290.4	2.0	0	0.00	56.	1001.	3	NAD-SFC NoSubs
11	11	13	317	16	24.2	0.247	0.868	0.005	967.	295.	-55.8	0.2930	0.72	0.33	2.10	344.0	15.0	290.4	2.0	0	0.00	57.	1001.	3	NAD-SFC NoSubs
11	11	13	317	17	-15.1	0.201	-9.000	-9.000	-999.	217.	48.3	0.2930	0.72	0.60	2.10	360.0	15.0	290.0	2.0	0	0.00	61.	1002.	3	NAD-SFC NoSubs
11	11	13	317	18	-16.4	0.200	-9.000	-9.000	-999.	215.	43.6	0.2940	0.72	1.00	2.10	7.0	15.0	289.1	2.0	0	0.00	64.	1002.	3	NAD-SFC NoSubs
11	11	13	317	19	-4.0	0.102	-9.000	-9.000	-999.	83.	23.7	0.2940	0.72	1.00	1.00	13.0	15.0	288.1	2.0	0	0.00	68.	1003.	3	NAD-SFC NoSubs
11	11	13	317	20	-1.6	0.083	-9.000	-9.000	-999.	57.	31.8	0.2720	0.72	1.00	0.50	317.0	15.0	287.1	2.0	0	0.00	73.	1003.	3	NAD-SFC NoSubs
11	11	13	317	21	-1.5	0.082	-9.000	-9.000	-999.	56.	31.6	0.2160	0.72	1.00	0.50	299.0	15.0	286.2	2.0	0	0.00	77.	1004.	2	NAD-SFC NoSubs
11	11	13	317	22	-4.0	0.101	-9.000	-9.000	-999.	77.	23.3	0.2720	0.72	1.00	1.00	312.0	15.0	285.5	2.0	0	0.00	80.	1004.	2	NAD-SFC NoSubs
11	11	13	317	23	-16.2	0.195	-9.000	-9.000	-999.	207.	41.2	0.2720	0.72	1.00	2.10	314.0	15.0	284.9	2.0	0	0.00	82.	1005.	2	NAD-SFC NoSubs
11	11	13	317	24	-25.2	0.246	-9.000	-9.000	-999.	292.	52.7	0.2720	0.72	1.00	2.60	308.0	15.0	284.2	2.0	0	0.00	85.	1005.	2	NAD-SFC NoSubs
11	11	14	318	1	-32.4	0.296	-9.000	-9.000	-999.	387.	71.9	0.2720	0.72	1.00	3.10	325.0	15.0	283.6	2.0	0	0.00	89.	1005.	2	NAD-SFC NoSubs
11	11	14	318	2	-33.2	0.303	-9.000	-9.000	-999.	400.	75.0	0.2930	0.72	1.00	3.10	332.0	15.0	282.9	2.0	0	0.00	94.	1005.	2	NAD-SFC NoSubs
11	11	14	318	3	-16.2	0.195	-9.000	-9.000	-999.	212.	41.0	0.2720	0.72	1.00	2.10	327.0	15.0	282.4	2.0	0	0.00	97.	1005.	2	NAD-SFC NoSubs
11	11	14	318	4	-8.3	0.140	-9.000	-9.000	-999.	126.	29.4	0.2930	0.72	1.00	1.50	343.0	15.0	281.9	2.0	0	0.00	100.	1005.	3	NAD-SFC NoSubs
11	11	14	318	5	-4.1	0.102	-9.000	-9.000	-999.	79.	23.6	0.2930	0.72	1.00	1.00	360.0	15.0	281.0	2.0	0	0.00	100.	1005.	3	NAD-SFC NoSubs
11	11	14	318	6	-4.1	0.102	-9.000	-9.000	-999.	79.	23.7	0.2940	0.72	1.00	1.00	18.0	15.0	281.0	2.0	0	0.00	100.	1005.	3	NAD-SFC NoSubs
11	11	14	318	7	-1.7	0.084	-9.000	-9.000	-999.	59.	32.1	0.2940	0.72	1.00	0.50	22.0	15.0	281.0	2.0	0	0.00	100.	1005.	3	NAD-SFC NoSubs
11	11	14	318	8	1.6	-9.000	-9.000	-9.000	28.	-999.	-99999.0	0.2235	0.72	0.41	0.00	0.0	15.0	280.8	2.0	0	0.00	100.	1005.	3	NAD-SFC NoSubs
11	11	14	318	9	47.5	-9.000	-9.000	-9.000	171.	-999.	-99999.0	0.2235	0.72	0.27	0.00	0.0	15.0	281.0	2.0	0	0.00	100.	1005.	3	NAD-SFC NoSubs
11	11	14	318	10	85.2	0.103	0.903	0.007	309.	80.	-1.2	0.2160	0.72	0.23	0.50	292.0	15.0	281.2	2.0	0	0.00	100.	1005.	3	NAD-SFC NoSubs
11	11	14	318	11	109.9	0.171	1.139	0.009	482.	169.	-4.1	0.2720	0.72	0.21	1.00	302.0	15.0	281.5	2.0	0	0.00	100.	1005.	3	NAD-SFC NoSubs
11	11	14	318	12	120.3	0.173	1.307	0.011	665.	172.	-3.8	0.2720	0.72	0.21	1.00	319.0	15.0	281.9	2.0	0	0.00	99.	1004.	3	NAD-SFC NoSubs
11	11	14	318	13	115.5	0.175	1.329	0.011	728.	175.	-4.1	0.2930	0.72	0.21	1.00	354.0	15.0	282.6	2.0	0	0.00	95.	1003.	2	NAD-SFC NoSubs
11	11	14	318	14	96.8	0.222	1.282	0.011	778.	251.	-10.1	0.2940	0.72	0.22	1.50	20.0	15.0	283.9	2.0	0	0.00	88.	1003.	2	NAD-SFC NoSubs
11	11	14	318	15	64.2	0.204	1.133	0.011	810.	221.	-11.8	0.2470	0.72	0.25	1.50	38.0	15.0	284.9	2.0	0	0.00	82.	1002.	2	NAD-SFC NoSubs
11	11	14	318	16	20.2	0.235	0.775	0.011	820.	273.	-57.3	0.2470	0.72	0.34	2.10	43.0	15.0	285.2	2.0	0	0.00	80.	1002.	2	NAD-SFC NoSubs
11	11	14	318	17	-20.9	0.229	-9.000	-9.000	-999.	264.	51.6	0.2090	0.72	0.61	2.60	62.0	15.0	284.8	2.0	0	0.00	85.	1002.	2	NAD-SFC NoSubs
11	11	14	318	18	-14.3	0.181	-9.000	-9.000	-999.	185.	37.1	0.2090	0.72	1.00	2.10	71.0	15.0	283.9	2.0	0	0.00	89.	1003.	2	NAD-SFC NoSubs
11	11	14	318	19	-1.5	0.082	-9.000	-9.000	-999.	62.	31.7	0.2130	0.72	1.00	0.50	104.0	15.0	283.2	2.0	0	0.00	92.	1003.	2	NAD-SFC NoSubs
11	11	14	318	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	282.8	2.0	0	0.00	96.	1004.	2	NAD-SFC NoSubs
11	11	14	318	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	282.2	2.0	0	0.00	99.	1004.	2	NAD-SFC NoSubs
11	11	14	318	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	281.4	2.0	0	0.00	100.	1005.	2	NAD-SFC NoSubs
11	11	14	318	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	279.5	2.0	0	0.00	100.	1006.	2	NAD-SFC NoSubs
11	11	14	318	24	-1.5	0.081	-9.000	-9.000	-999.	56.	31.6	0.2130	0.72	1.00	0.50	98.0	15.0	279.2	2.0	0	0.00	100.	1006.	3	NAD-SFC NoSubs
11	11	15	319	1	-1.5	0.081	-9.000	-9.000	-999.	56.	31.6	0.2130	0.72	1.00	0.50	114.0	15.0	279.2	2.0	0	0.00	100.	1006.	3	NAD-SFC NoSubs
11	11	15	319	2	-1.5	0.081	-9.000	-9.000	-999.	56.	31.6	0.2130	0.72	1.00	0.50	108.0	15.0	279.1	2.0	0	0.00	100.	1007.	3	NAD-SFC NoSubs
11	11	15	319	3	-1.5	0.081	-9.000	-9.000	-999.	55.	31.4	0.1970	0.72	1.00	0.50	132.0	15.0	279.8	2.0	0	0.00	100.	1007.	3	NAD-SFC NoSubs
11	11	15	319	4	-3.5	0.095	-9.000	-9.000	-999.	70.	21.9	0.1810	0.72	1.00	1.00	161.0	15.0	280.1	2.0	0	0.00	100.	1007.	2	NAD-SFC NoSubs
11	11	15	319	5	-3.6	0.096	-9.000	-9.000	-999.	71.	22.0	0.1900	0.72	1.00	1.00	193.0	15.0	280.4	2.0	0	0.00	100.	1008.	2	NAD-SFC NoSubs
11	11	15	319	6	-3.6	0.096	-9.000	-9.000	-999.	72.	22.1	0.1950	0.72	1.00	1.00	227.0	15.0	280.6	2.0	0	0.00	100.	1008.	2	NAD-SFC NoSubs
11	11	15	319	7	-7.4	0.129	-9.000	-9.000	-999.	111.	26.1	0.2160	0.72	1.00	1.50	275.0	15.0	280.8	2.0	0	0.00	100.	1008.	2	NAD-SFC NoSubs
11	11	15	319	8	-0.8	0.139	-9.000	-9.000	-999.	124.	301.4	0.2160	0.72	0.42	1.50	282.0	15.0	280.8	2.0	0	0.00	100.	1009.	2	NAD-SFC NoSubs
11	11	15	319	9	45.0	0.191	0.572	0.008	149.	200.	-13.9	0.2160	0.72	0.28	1.50	286.0	15.0	280.8	2.0	0	0.00	100.	1009.	2	NAD-SFC NoSubs
11	11	15	319	10	83.1	0.164	0.845	0.009	261.	160.	-4.8	0.2720	0.72	0.23	1.00	314.0	15.0	280.9	2.0	0	0.00	99.	1009.	2	NAD-SFC NoSubs
11	11	15	319	11	108.0	0.114	1.083	0.013	423.	92.	-1.2	0.2930	0.72	0.21	0.50	358.0	15.0	281.4	2.0	0	0.00	96.	1009.	2	NAD-SFC NoSubs
11	11	15	319	12	118.7	0.111	1.234	0.015	570.	89.	-1.0	0.2470	0.72	0.21	0.50	36.0	15.0	282.4	2.0	0	0.00	91.	1009.	2	NAD-SFC NoSubs
11	11	15	319	13	114.8	0.115	1.287	0.015	668.	93.	-1.2	0.2940	0.72	0.21	0.50	17.0	15.0	283.9	2.0	0	0.00	83.	1008.	2	NAD-SFC NoSubs
11	11	15	319	14	96.3	0.112	1.233	0.015	701.	90.	-1.3	0.2940	0.72	0.22	0.50	14.0	15.0	285.5	2.0	0	0.00	75.	1008.	2	NAD-SFC NoSubs
11	11	15	319	15	63.7	0.162	1.086	0.014	722.	157.	-6.0	0.2940	0.72	0.25	1.00	9.0	15.0	286.2	2.0	0	0.00	71.	1007.	2	NAD-SFC NoSubs
11	11	15	319	16	19.7	0.243	0.737	0.014	728.	288.	-65.7	0.2940	0.72	0.34	2.10	16.0	15.0	286.1	2.0	0	0.00	73.	1007.	2	NAD-SFC NoSubs
11	11	15	319	17	-24.3	0.253	-9.000	-9.000	-999.	305.	59.6	0.2940	0.72	0.61	2.60	28.0	15.0	285.2	2.0	0	0.00	79.	1007.	2	NAD-SFC NoSubs
11	11	15	319	18	-15.5	0.190	-9.000	-9.000	-999.	199.	39.6	0.2470	0.72	1.00	2.10	39.0	15.0	284.0	2.0	0	0.00	85.	1008.	2	NAD-SFC NoSubs
11	11	15	319	19	-3.9	0.100	-9.000	-9.000	-999.	79.	23.0	0.2470	0.72	1.00	1.00	46.0	15.0	283.2	2.0	0	0.00	89.	1008.	2	NAD-SFC NoSubs
11	11	15	319	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	282.8	2.0	0	0.00	93.	1008.	2	NAD-SFC NoSubs
11	11	15	319	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	282.2	2.0	0	0.00	96.	1009.	2	NAD-SFC NoSubs
11	11	15	319	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	281.6	2.0	0	0.00	100.	1009.	2	NAD-SFC NoSubs
11	11	15	319	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	280.2	2.0	0	0.00	100.	1009.	2	NAD-SFC NoSubs
11	11	15	319	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	279.1	2.0	0	0.00	100.	1009.	2	NAD-SFC NoSubs
11	11	16	320	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	279.0	2.0	0	0.00	100.	1009.	2	NAD-SFC NoSubs
11	11	16	320	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	278.8	2.0	0	0.00	100.	1009.	2	NAD-SFC NoSubs
11	11	16	320	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	278.8	2.0	0	0.00	100.	1010.	2	NAD-SFC NoSubs
11	11	16	320	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.2235	0.72	1.00	0.00	0.0	15.0	278.8	2.0	0	0.00	100.	1010.	2	NAD-SFC NoSubs
11	11	16	320	5	-1.7	0.085	-9.000	-9.000	-999.	59.	32.3	0.2720	0.72	1.00	0.50	317.0	15.0	278.9	2.0	0	0.00	100.	1010.	2	NAD-SFC NoSubs
11	11	16	320	6	-1.7	0.084	-9.000	-9.000	-999.	58.	32.0	0.2720	0.72	1.00	0.50	306.0	15.0	279.5	2.0	0	0.00	100.	1011.	3	NAD-SFC NoSubs
11	11	16	320	7	-4.0	0.101	-9.000	-9.000	-999.	77.	23.3	0.2720	0.72	1.00	1.00	309.0	15.0	279.6	2.0	0	0.00	100.	1011.	3	NAD-SFC NoSubs
11	11	16	320	8	-1.6	0.137	-9.000	-9.000	-999.	122.	147.1	0.2160	0.72	0.42	1.50	296.0	15.0	279.6	2.0	0	0.00	100.	1012.	2	NAD-SFC NoSubs
11	11	16	320	9	43.8	0.200	0.475	0.012	88.	215.	-16.5	0.2720	0.72	0.28	1.50	300.0	15.0	279.9	2.0	0	0.00	100.	1012.	2	NAD-SFC NoSubs
11	11	16	320	10	81.8	0.108	0.751	0.012	187.	88.	-1.4	0.2720	0.72	0.23	0.50	304.0	15.0	280.2	2.0	0	0.00	100.	1012.	2	NAD-SFC NoSubs
11	11	16	320	11	106.8	-9.000	-9.000	-9.000	298.	-999.	-99999.0	0.2235	0.72	0.21	0.00	0.0	15.0	280.4	2.0	0	0.00	100.	1012.	2	NAD-SFC NoSubs
11	11	16	320	12	117.4	-9.000	-9.000	-9.000	391.	-999.	-99999.0	0.2235	0.72	0.21	0.00	0.0	15.0	280.9	2.0	0	0.00	100.	1012.	2	NAD-SFC NoSubs
11	11	16	320	13	113.3	0.106	1.163	0.012	501.	83.	-1.0	0.2090	0.72	0.21	0.50	64.0	15.0	281.8	2.0	0	0.00	96.	1011.	2	NAD-SFC NoSubs
11	11	16	320	14	94.9	0.164	1.151	0.012	580.	159.	-4.2	0.2470	0.72	0.22	1.00	39.0	15.0	283.5	2.0	0	0.00	87.	1010.	2	NAD-SFC NoSubs

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11 11 16 320 15   62.5  0.162  1.029  0.011  627.  156.     -6.1  0.2940  0.72  0.25  1.00   26.0  15.0  285.0  2.0   0  0.00   80.  1010.   2 NAD-SFC NoSubs
11 11 16 320 16   20.4  0.189  0.717  0.011  650.  197.    -29.7  0.2930  0.72  0.34  1.50  336.0  15.0  290.6  2.0   0  0.00   54.  1009.   2 NAD-SFC NoSubs
11 11 16 320 17   -3.7  0.099 -9.000 -9.000 -999.   78.     23.8  0.2930  0.72  0.62  1.00  348.0  15.0  290.0  2.0   0  0.00   58.  1009.   2 NAD-SFC NoSubs
11 11 16 320 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  288.9  2.0   0  0.00   63.  1009.   2 NAD-SFC NoSubs
11 11 16 320 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  287.8  2.0   0  0.00   69.  1009.   2 NAD-SFC NoSubs
11 11 16 320 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  286.6  2.0   0  0.00   75.  1010.   2 NAD-SFC NoSubs
11 11 16 320 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  285.8  2.0   0  0.00   79.  1010.   2 NAD-SFC NoSubs
11 11 16 320 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  284.9  2.0   0  0.00   82.  1010.   2 NAD-SFC NoSubs
11 11 16 320 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  284.2  2.0   0  0.00   84.  1011.   2 NAD-SFC NoSubs
11 11 16 320 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  283.8  2.0   0  0.00   85.  1010.   2 NAD-SFC NoSubs
11 11 17 321  1   -1.7  0.084 -9.000 -9.000 -999.   59.     32.2  0.2720  0.72  1.00  0.50  302.0  15.0  283.4  2.0   0  0.00   86.  1010.   2 NAD-SFC NoSubs
11 11 17 321  2   -1.7  0.084 -9.000 -9.000 -999.   59.     32.2  0.2720  0.72  1.00  0.50  325.0  15.0  283.0  2.0   0  0.00   87.  1010.   2 NAD-SFC NoSubs
11 11 17 321  3   -1.7  0.085 -9.000 -9.000 -999.   60.     32.3  0.2930  0.72  1.00  0.50  333.0  15.0  282.6  2.0   0  0.00   89.  1010.   2 NAD-SFC NoSubs
11 11 17 321  4   -1.7  0.084 -9.000 -9.000 -999.   59.     32.2  0.2720  0.72  1.00  0.50  325.0  15.0  282.2  2.0   0  0.00   92.  1010.   2 NAD-SFC NoSubs
11 11 17 321  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  281.8  2.0   0  0.00   95.  1010.   2 NAD-SFC NoSubs
11 11 17 321  6   -1.7  0.085 -9.000 -9.000 -999.   60.     32.4  0.2930  0.72  1.00  0.50  333.0  15.0  280.9  2.0   0  0.00   99.  1010.   2 NAD-SFC NoSubs
11 11 17 321  7   -4.2  0.103 -9.000 -9.000 -999.   79.     23.6  0.2930  0.72  1.00  1.00  336.0  15.0  280.8  2.0   0  0.00  100.  1010.   2 NAD-SFC NoSubs
11 11 17 321  8   -3.2  0.210 -9.000 -9.000 -999.  232.    264.2  0.2930  0.72  0.43  2.10  336.0  15.0  280.8  2.0   0  0.00  100.  1010.   2 NAD-SFC NoSubs
11 11 17 321  9   42.8  0.304  0.548  0.009  138.  403.     -59.3  0.2930  0.72  0.28  2.60  355.0  15.0  280.8  2.0   0  0.00  100.  1010.   2 NAD-SFC NoSubs
11 11 17 321 10   81.9  0.217  0.847  0.009  268.  246.     -11.3  0.2930  0.72  0.23  1.50  336.0  15.0  280.9  2.0   0  0.00  100.  1011.   3 NAD-SFC NoSubs
11 11 17 321 11  106.6  0.113  1.050  0.009  392.   97.      -1.2  0.2930  0.72  0.21  0.50  341.0  15.0  281.2  2.0   0  0.00  100.  1011.   3 NAD-SFC NoSubs
11 11 17 321 12  116.4 -9.000 -9.000 -9.000  542. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  281.4  2.0   0  0.00  100.  1010.   2 NAD-SFC NoSubs
11 11 17 321 13  112.4  0.107  1.270  0.010  657.   84.     -1.0  0.2160  0.72  0.21  0.50  273.0  15.0  282.0  2.0   0  0.00   99.  1009.   2 NAD-SFC NoSubs
11 11 17 321 14   93.9  0.110  1.227  0.010  707.   87.     -1.3  0.2720  0.72  0.22  0.50  326.0  15.0  283.2  2.0   0  0.00   93.  1008.   2 NAD-SFC NoSubs
11 11 17 321 15   61.6 -9.000 -9.000 -9.000  739. -999. -99999.0  0.2235  0.72  0.25  0.00    0.0  15.0  284.6  2.0   0  0.00   86.  1007.   2 NAD-SFC NoSubs
11 11 17 321 16   18.1  0.140  0.723  0.010  748.  126.    -13.7  0.2940  0.72  0.34  1.00   10.0  15.0  285.1  2.0   0  0.00   84.  1006.   2 NAD-SFC NoSubs
11 11 17 321 17   -7.8  0.140 -9.000 -9.000 -999.  126.     31.4  0.2940  0.72  0.62  1.50   18.0  15.0  284.8  2.0   0  0.00   87.  1005.   3 NAD-SFC NoSubs
11 11 17 321 18   -3.8  0.099 -9.000 -9.000 -999.   75.     22.9  0.2470  0.72  1.00  1.00   34.0  15.0  283.9  2.0   0  0.00   91.  1005.   3 NAD-SFC NoSubs
11 11 17 321 19   -1.7  0.084 -9.000 -9.000 -999.   59.     32.0  0.2930  0.72  1.00  0.50  348.0  15.0  283.1  2.0   0  0.00   95.  1006.   3 NAD-SFC NoSubs
11 11 17 321 20   -1.6  0.083 -9.000 -9.000 -999.   58.     31.9  0.2720  0.72  1.00  0.50  307.0  15.0  282.4  2.0   0  0.00  100.  1006.   3 NAD-SFC NoSubs
11 11 17 321 21   -1.6  0.084 -9.000 -9.000 -999.   58.     32.0  0.2720  0.72  1.00  0.50  323.0  15.0  281.8  2.0   0  0.00  100.  1006.   3 NAD-SFC NoSubs
11 11 17 321 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  279.8  2.0   0  0.00  100.  1006.   3 NAD-SFC NoSubs
11 11 17 321 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  279.5  2.0   0  0.00  100.  1006.   3 NAD-SFC NoSubs
11 11 17 321 24   -1.7  0.085 -9.000 -9.000 -999.   59.     32.2  0.2940  0.72  1.00  0.50   13.0  15.0  279.8  2.0   0  0.00  100.  1006.   3 NAD-SFC NoSubs
11 11 18 322  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  279.8  2.0   0  0.00  100.  1006.   3 NAD-SFC NoSubs
11 11 18 322  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  279.8  2.0   0  0.00  100.  1006.   3 NAD-SFC NoSubs
11 11 18 322  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  280.2  2.0   0  0.00  100.  1006.   3 NAD-SFC NoSubs
11 11 18 322  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  280.8  2.0   0  0.00  100.  1006.   3 NAD-SFC NoSubs
11 11 18 322  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  281.1  2.0   0  0.00  100.  1006.   3 NAD-SFC NoSubs
11 11 18 322  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  281.4  2.0   0  0.00  100.  1005.   3 NAD-SFC NoSubs
11 11 18 322  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  281.6  2.0   0  0.00   99.  1005.   3 NAD-SFC NoSubs
11 11 18 322  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.43  0.00    0.0  15.0  281.8  2.0   0  0.00   99.  1005.   4 NAD-SFC NoSubs
11 11 18 322  9   44.0  0.094  0.573  0.007  153.   69.     -1.7  0.2130  0.72  0.28  0.50  114.0  15.0  282.1  2.0   0  0.00   98.  1005.   4 NAD-SFC NoSubs
11 11 18 322 10   74.4  0.198  0.832  0.007  278.  211.     -9.3  0.1970  0.72  0.23  1.50  123.0  15.0  282.8  2.0   0  0.00   95.  1005.   6 NAD-SFC NoSubs
11 11 18 322 11   22.7  0.226  0.584  0.007  314.  258.    -45.4  0.1970  0.72  0.21  2.10  135.0  15.0  283.4  2.0   0  0.00   91.  1005.  10 NAD-SFC NoSubs
11 11 18 322 12   25.5  0.228  0.630  0.008  350.  261.    -41.5  0.1970  0.72  0.21  2.10  130.0  15.0  283.9  2.0   0  0.00   88.  1004.  10 NAD-SFC NoSubs
11 11 18 322 13   24.5  0.173  0.640  0.008  381.  174.    -19.0  0.1810  0.72  0.21  1.50  158.0  15.0  284.2  2.0   0  0.00   87.  1004.  10 NAD-SFC NoSubs
11 11 18 322 14   19.9  0.128  0.618  0.008  425.  110.     -9.4  0.1810  0.72  0.22  1.00  178.0  15.0  284.4  2.0   0  0.00   86.  1004.  10 NAD-SFC NoSubs
11 11 18 322 15   11.8 -9.000 -9.000 -9.000  455. -999. -99999.0  0.2235  0.72  0.25  0.00    0.0  15.0  284.5  2.0   0  0.00   87.  1004.  10 NAD-SFC NoSubs
11 11 18 322 16    0.9  0.108  0.222  0.009  458.   85.   -131.8  0.2720  0.72  0.34  1.00  317.0  15.0  284.5  2.0   0  0.00   88.  1003.  10 NAD-SFC NoSubs
11 11 18 322 17   -5.7  0.140 -9.000 -9.000 -999.  125.     42.5  0.2720  0.72  0.63  1.50  307.0  15.0  284.2  2.0   0  0.00   90.  1003.  10 NAD-SFC NoSubs
11 11 18 322 18   -5.9  0.139 -9.000 -9.000 -999.  125.     41.1  0.2720  0.72  1.00  1.50  315.0  15.0  284.1  2.0   0  0.00   92.  1004.  10 NAD-SFC NoSubs
11 11 18 322 19  -11.1  0.200 -9.000 -9.000 -999.  215.     64.4  0.2720  0.72  1.00  2.10  306.0  15.0  283.9  2.0   0  0.00   94.  1004.  10 NAD-SFC NoSubs
11 11 18 322 20   -5.9  0.139 -9.000 -9.000 -999.  126.     41.1  0.2720  0.72  1.00  1.50  302.0  15.0  283.8  2.0   0  0.00   94.  1004.  10 NAD-SFC NoSubs
11 11 18 322 21   -5.3  0.130 -9.000 -9.000 -999.  113.     37.5  0.2160  0.72  1.00  1.50  283.0  15.0  283.5  2.0   0  0.00   94.  1005.  10 NAD-SFC NoSubs
11 11 18 322 22   -4.9  0.123 -9.000 -9.000 -999.  104.     34.7  0.1750  0.72  1.00  1.50  268.0  15.0  283.4  2.0   0  0.00   94.  1005.  10 NAD-SFC NoSubs
11 11 18 322 23   -2.3  0.087 -9.000 -9.000 -999.   61.     24.8  0.2160  0.72  1.00  1.00  273.0  15.0  283.2  2.0   0  0.00   94.  1005.  10 NAD-SFC NoSubs
11 11 18 322 24   -0.8  0.061 -9.000 -9.000 -999.   36.     25.3  0.1750  0.72  1.00  0.50  265.0  15.0  283.1  2.0   0  0.00   94.  1005.  10 NAD-SFC NoSubs
11 11 19 323  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00  0.00    0.0  15.0  283.0  2.0   0  0.00   93.  1005.  10 NAD-SFC NoSubs
11 11 19 323  2   -0.8  0.061 -9.000 -9.000 -999.   36.     25.3  0.1750  0.72  1.00  0.50  257.0  15.0  282.9  2.0   0  0.25   92.  1004.  10 NAD-SFC NoSubs
11 11 19 323  3   -0.8  0.061 -9.000 -9.000 -999.   36.     25.3  0.1750  0.72  1.00  0.50  266.0  15.0  282.8  2.0   0  0.25   92.  1004.  10 NAD-SFC NoSubs
11 11 19 323  4   -0.8  0.062 -9.000 -9.000 -999.   37.     25.8  0.2160  0.72  1.00  0.50  275.0  15.0  282.6  2.0   0  0.00   92.  1004.  10 NAD-SFC NoSubs
11 11 19 323  5   -2.3  0.087 -9.000 -9.000 -999.   61.     24.7  0.2160  0.72  1.00  1.00  282.0  15.0  282.2  2.0   0  0.00   92.  1004.  10 NAD-SFC NoSubs
11 11 19 323  6   -2.8  0.090 -9.000 -9.000 -999.   65.     22.8  0.2160  0.72  1.00  1.00  278.0  15.0  281.8  2.0   0  0.00   92.  1004.   8 NAD-SFC NoSubs
11 11 19 323  7   -2.6  0.086 -9.000 -9.000 -999.   61.     21.7  0.1750  0.72  1.00  1.00  257.0  15.0  281.5  2.0   0  0.00   92.  1005.   8 NAD-SFC NoSubs
11 11 19 323  8    0.6  0.099  0.123  0.005  105.   75.   -138.4  0.1950  0.72  0.44  1.00  229.0  15.0  281.2  2.0   0  0.00   92.  1005.   7 NAD-SFC NoSubs
11 11 19 323  9   36.0  0.139  0.673  0.005  303.  124.     -6.6  0.1950  0.72  0.28  1.00  214.0  15.0  281.6  2.0   0  0.00   88.  1005.   7 NAD-SFC NoSubs
11 11 19 323 10   77.9  0.099  1.019  0.005  487.   75.     -1.1  0.1900  0.72  0.23  0.50  186.0  15.0  282.5  2.0   0  0.00   82.  1005.   5 NAD-SFC NoSubs
11 11 19 323 11  104.3  0.103  1.244  0.005  662.   79.     -1.0  0.1900  0.72  0.21  0.50  195.0  15.0  283.2  2.0   0  0.00   78.  1005.   4 NAD-SFC NoSubs
11 11 19 323 12  115.7  0.105  1.448  0.005  942.   82.     -1.0  0.1950  0.72  0.21  0.50  213.0  15.0  284.1  2.0   0  0.00   73.  1004.   3 NAD-SFC NoSubs
11 11 19 323 13  111.9 -9.000 -9.000 -9.000 1139. -999. -99999.0  0.2235  0.72  0.21  0.00    0.0  15.0  284.9  2.0   0  0.00   67.  1004.   3 NAD-SFC NoSubs
11 11 19 323 14   93.6 -9.000 -9.000 -9.000 1281. -999. -99999.0  0.2235  0.72  0.22  0.00    0.0  15.0  285.6  2.0   0  0.00   62.  1003.   3 NAD-SFC NoSubs
11 11 19 323 15   61.8  0.102  1.325  0.008 1347.   78.     -1.5  0.2470  0.72  0.25  0.50   45.0  15.0  285.9  2.0   0  0.00   60.  1002.   4 NAD-SFC NoSubs
11 11 19 323 16    1.1  0.146  0.341  0.008 1348.  135.   -267.4  0.2090  0.72  0.35  1.50   62.0  15.0  285.9  2.0   0  0.00   61.  1002.  10 NAD-SFC NoSubs
11 11 19 323 17  -12.2  0.233 -9.000 -9.000 -999.  270.     92.6  0.2090  0.72  0.63  2.60   76.0  15.0  285.5  2.0   0  0.00   65.  1002.  10 NAD-SFC NoSubs
11 11 19 323 18  -15.6  0.281 -9.000 -9.000 -999.  358.    127.6  0.2130  0.72  1.00  3.10  102.0  15.0  285.0  2.0   0  0.00   69.  1002.  10 NAD-SFC NoSubs
11 11 19 323 19  -20.6  0.274 -9.000 -9.000 -999.  344.     88.8  0.1970  0.72  1.00  3.10  145.0  15.0  284.6  2.0   0  0.00   73.  1003.   8 NAD-SFC NoSubs
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11 11 19 323 20  -20.0  0.361 -9.000 -9.000 -999.  520.    209.4  0.1810  0.72  1.00   4.10  154.0  15.0  284.2  2.0   0  0.00   77.  1003.   10 NAD-SFC NoSubs
11 11 19 323 21  -25.7  0.463 -9.000 -9.000 -999.  755.    344.0  0.1970  0.72  1.00   5.10  146.0  15.0  283.8  2.0   0  0.00   79.  1003.   10 NAD-SFC NoSubs
11 11 19 323 22  -25.8  0.463 -9.000 -9.000 -999.  755.    343.7  0.1970  0.72  1.00   5.10  144.0  15.0  283.5  2.0   0  0.00   78.  1003.   10 NAD-SFC NoSubs
11 11 19 323 23  -41.8  0.458 -9.000 -9.000 -999.  743.    205.1  0.1970  0.72  1.00   5.10  142.0  15.0  283.4  2.0   0  0.51   79.  1003.    6 NAD-SFC NoSubs
11 11 19 323 24  -50.1  0.513 -9.000 -9.000 -999.  882.    241.5  0.1970  0.72  1.00   5.70  128.0  15.0  283.2  2.0   0  0.76   81.  1003.    5 NAD-SFC NoSubs
11 11 20 324  1  -50.1  0.513 -9.000 -9.000 -999.  882.    241.5  0.1970  0.72  1.00   5.70  126.0  15.0  283.2  2.0   0  0.76   81.  1003.    5 NAD-SFC NoSubs
11 11 20 324  2  -57.3  0.560 -9.000 -9.000 -999. 1004.    273.2  0.1970  0.72  1.00   6.20  129.0  15.0  283.2  2.0   0  0.51   79.  1002.    4 NAD-SFC NoSubs
11 11 20 324  3  -54.6  0.560 -9.000 -9.000 -999. 1007.    288.1  0.1970  0.72  1.00   6.20  132.0  15.0  283.4  2.0   0  0.51   79.  1002.    5 NAD-SFC NoSubs
11 11 20 324  4  -54.5  0.560 -9.000 -9.000 -999. 1007.    288.2  0.1970  0.72  1.00   6.20  132.0  15.0  283.5  2.0   0  0.51   79.  1002.    5 NAD-SFC NoSubs
11 11 20 324  5  -54.5  0.560 -9.000 -9.000 -999. 1007.    288.3  0.1970  0.72  1.00   6.20  129.0  15.0  283.6  2.0   0  0.76   82.  1002.    5 NAD-SFC NoSubs
11 11 20 324  6  -59.1  0.608 -9.000 -9.000 -999. 1135.    339.0  0.1970  0.72  1.00   6.70  126.0  15.0  283.8  2.0   0  0.76   83.  1002.    5 NAD-SFC NoSubs
11 11 20 324  7  -62.0  0.607 -9.000 -9.000 -999. 1135.    322.1  0.1970  0.72  1.00   6.70  129.0  15.0  284.0  2.0   0  0.51   83.  1002.    4 NAD-SFC NoSubs
11 11 20 324  8   -0.7  0.581 -9.000 -9.000 -999. 1065.   8888.0  0.1970  0.72  0.44   6.20  128.0  15.0  284.2  2.0   0  0.51   83.  1002.    5 NAD-SFC NoSubs
11 11 20 324  9   42.5  0.588  0.633  0.005  213. 1083.   -428.7  0.1970  0.72  0.29   6.20  130.0  15.0  284.8  2.0   0  0.25   81.  1003.    4 NAD-SFC NoSubs
11 11 20 324 10   79.6  0.599  0.936  0.005  369. 1112.   -241.5  0.1970  0.72  0.23   6.20  135.0  15.0  285.8  2.0   0  0.00   76.  1003.    4 NAD-SFC NoSubs
11 11 20 324 11  104.2  0.605  1.245  0.005  662. 1129.   -190.0  0.1970  0.72  0.21   6.20  132.0  15.0  287.0  2.0   0  0.00   71.  1003.    4 NAD-SFC NoSubs
11 11 20 324 12  115.1  0.597  1.375  0.005  807. 1107.   -164.9  0.1810  0.72  0.21   6.20  152.0  15.0  288.8  2.0   0  0.00   59.  1002.    4 NAD-SFC NoSubs
11 11 20 324 13  111.7  0.596  1.426  0.005  928. 1104.   -169.2  0.1810  0.72  0.21   6.20  175.0  15.0  290.2  2.0   0  0.00   47.  1002.    4 NAD-SFC NoSubs
11 11 20 324 14   93.7  0.420  1.394  0.005 1033.  683.    -70.7  0.1900  0.72  0.22   4.10  186.0  15.0  290.2  2.0   0  0.51   47.  1001.    4 NAD-SFC NoSubs
11 11 20 324 15   61.6  0.603  1.237  0.005 1100. 1122.   -317.6  0.2930  0.72  0.25   5.70  334.0  15.0  287.8  2.0   0  0.51   67.  1002.    4 NAD-SFC NoSubs
11 11 20 324 16   18.8  0.687  0.837  0.005 1114. 1365.  -1540.5  0.2930  0.72  0.35   6.70  355.0  15.0  284.8  2.0   0  0.76   93.  1002.    4 NAD-SFC NoSubs
11 11 20 324 17  -44.8  0.512 -9.000 -9.000 -999.  911.    267.4  0.2940  0.72  0.64   5.10   13.0  15.0  284.1  2.0   0  0.51   97.  1002.    5 NAD-SFC NoSubs
11 11 20 324 18  -44.6  0.459 -9.000 -9.000 -999.  750.    193.4  0.2940  0.72  1.00   4.60   27.0  15.0  284.1  2.0   0  0.25   94.  1003.    5 NAD-SFC NoSubs
11 11 20 324 19  -37.7  0.387 -9.000 -9.000 -999.  582.    137.7  0.2470  0.72  1.00   4.10   45.0  15.0  284.0  2.0   0  0.00   93.  1004.    5 NAD-SFC NoSubs
11 11 20 324 20  -34.6  0.338 -9.000 -9.000 -999.  472.     99.6  0.2470  0.72  1.00   3.60   42.0  15.0  283.8  2.0   0  0.00   93.  1004.    4 NAD-SFC NoSubs
11 11 20 324 21  -33.0  0.338 -9.000 -9.000 -999.  471.    104.7  0.2470  0.72  1.00   3.60   39.0  15.0  283.1  2.0   0  0.00   95.  1005.    5 NAD-SFC NoSubs
11 11 20 324 22  -23.5  0.240 -9.000 -9.000 -999.  286.     52.5  0.2470  0.72  1.00   2.60   42.0  15.0  282.8  2.0   0  0.00   95.  1005.    4 NAD-SFC NoSubs
11 11 20 324 23   -8.0  0.140 -9.000 -9.000 -999.  130.     30.8  0.2940  0.72  1.00   1.50   24.0  15.0  282.5  2.0   0  0.00   95.  1006.    5 NAD-SFC NoSubs
11 11 20 324 24   -1.5  0.081 -9.000 -9.000 -999.   56.     31.0  0.2720  0.72  1.00   0.50  307.0  15.0  282.2  2.0   0  0.00   97.  1006.    5 NAD-SFC NoSubs
11 11 21 325  1  -13.6  0.178 -9.000 -9.000 -999.  180.     37.4  0.1950  0.72  1.00   2.10  238.0  15.0  281.8  2.0   0  0.00  100.  1007.    4 NAD-SFC NoSubs
11 11 21 325  2   -6.6  0.122 -9.000 -9.000 -999.  103.     25.0  0.1750  0.72  1.00   1.50  253.0  15.0  280.2  2.0   0  0.00  100.  1007.    4 NAD-SFC NoSubs
11 11 21 325  3   -1.4  0.078 -9.000 -9.000 -999.   52.     30.3  0.2470  0.72  1.00   0.50   40.0  15.0  279.8  2.0   0  0.00  100.  1008.    6 NAD-SFC NoSubs
11 11 21 325  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  279.4  2.0   0  0.00  100.  1008.    7 NAD-SFC NoSubs
11 11 21 325  5   -1.1  0.071 -9.000 -9.000 -999.   45.     28.3  0.2160  0.72  1.00   0.50  298.0  15.0  279.6  2.0   0  0.00  100.  1009.    8 NAD-SFC NoSubs
11 11 21 325  6  -14.2  0.250 -9.000 -9.000 -999.  300.     99.3  0.2720  0.72  1.00   2.60  307.0  15.0  279.9  2.0   0  0.00  100.  1010.   10 NAD-SFC NoSubs
11 11 21 325  7  -19.9  0.351 -9.000 -9.000 -999.  499.    195.8  0.2720  0.72  1.00   3.60  314.0  15.0  280.1  2.0   0  0.00  100.  1011.   10 NAD-SFC NoSubs
11 11 21 325  8  -10.1  0.285 -9.000 -9.000 -999.  367.    207.1  0.2160  0.72  0.45   3.10  299.0  15.0  280.1  2.0   0  0.00  100.  1012.   10 NAD-SFC NoSubs
11 11 21 325  9   40.1  0.283  0.453  0.005   83.  362.    -51.3  0.2160  0.72  0.29   2.60  294.0  15.0  280.2  2.0   0  0.00   97.  1013.    5 NAD-SFC NoSubs
11 11 21 325 10   77.5  0.155  0.852  0.005  288.  156.     -4.3  0.2160  0.72  0.23   1.00  288.0  15.0  280.9  2.0   0  0.00   92.  1013.    4 NAD-SFC NoSubs
11 11 21 325 11  102.0 -9.000 -9.000 -9.000  533. -999. -99999.0  0.2235  0.72  0.21   0.00    0.0  15.0  281.8  2.0   0  0.00   87.  1013.    4 NAD-SFC NoSubs
11 11 21 325 12  113.5  0.105  1.327  0.005  745.   81.     -1.0  0.1970  0.72  0.21   0.50  136.0  15.0  282.8  2.0   0  0.00   83.  1013.    3 NAD-SFC NoSubs
11 11 21 325 13  109.8  0.159  1.417  0.005  937.  152.     -3.3  0.1970  0.72  0.21   1.00  144.0  15.0  283.8  2.0   0  0.00   79.  1013.    3 NAD-SFC NoSubs
11 11 21 325 14   91.8  0.155  1.386  0.005 1049.  147.     -3.7  0.1970  0.72  0.22   1.00  149.0  15.0  284.8  2.0   0  0.00   74.  1012.    3 NAD-SFC NoSubs
11 11 21 325 15   59.9  0.145  1.226  0.005 1111.  133.     -4.6  0.1810  0.72  0.26   1.00  155.0  15.0  285.2  2.0   0  0.00   71.  1012.    3 NAD-SFC NoSubs
11 11 21 325 16   15.3  0.085  0.782  0.005 1123.   60.     -3.6  0.2470  0.72  0.35   0.50   42.0  15.0  284.0  2.0   0  0.00   74.  1012.    2 NAD-SFC NoSubs
11 11 21 325 17   -3.5  0.095 -9.000 -9.000 -999.   70.     22.3  0.2090  0.72  0.64   1.00   82.0  15.0  283.6  2.0   0  0.00   77.  1012.    2 NAD-SFC NoSubs
11 11 21 325 18  -14.6  0.182 -9.000 -9.000 -999.  186.     37.3  0.2130  0.72  1.00   2.10  102.0  15.0  282.8  2.0   0  0.00   82.  1012.    2 NAD-SFC NoSubs
11 11 21 325 19  -14.1  0.178 -9.000 -9.000 -999.  180.     36.2  0.1970  0.72  1.00   2.10  128.0  15.0  282.0  2.0   0  0.00   87.  1013.    2 NAD-SFC NoSubs
11 11 21 325 20  -13.7  0.174 -9.000 -9.000 -999.  175.     35.0  0.1810  0.72  1.00   2.10  161.0  15.0  281.2  2.0   0  0.00   91.  1013.    2 NAD-SFC NoSubs
11 11 21 325 21   -6.9  0.124 -9.000 -9.000 -999.  105.     24.7  0.1810  0.72  1.00   1.50  159.0  15.0  280.8  2.0   0  0.00   95.  1014.    2 NAD-SFC NoSubs
11 11 21 325 22   -3.7  0.096 -9.000 -9.000 -999.   72.     22.2  0.1970  0.72  1.00   1.00  142.0  15.0  280.0  2.0   0  0.00   99.  1014.    2 NAD-SFC NoSubs
11 11 21 325 23   -3.8  0.098 -9.000 -9.000 -999.   73.     22.4  0.2130  0.72  1.00   1.00  107.0  15.0  278.2  2.0   0  0.00  100.  1015.    2 NAD-SFC NoSubs
11 11 21 325 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  276.8  2.0   0  0.00  100.  1015.    2 NAD-SFC NoSubs
11 11 22 326  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  276.6  2.0   0  0.00  100.  1015.    2 NAD-SFC NoSubs
11 11 22 326  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  276.0  2.0   0  0.00  100.  1015.    2 NAD-SFC NoSubs
11 11 22 326  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  275.6  2.0   0  0.00  100.  1015.    2 NAD-SFC NoSubs
11 11 22 326  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  275.2  2.0   0  0.00  100.  1014.    2 NAD-SFC NoSubs
11 11 22 326  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  275.1  2.0   0  0.00  100.  1014.    2 NAD-SFC NoSubs
11 11 22 326  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  275.0  2.0   0  0.00  100.  1015.    2 NAD-SFC NoSubs
11 11 22 326  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  275.2  2.0   0  0.00  100.  1015.    2 NAD-SFC NoSubs
11 11 22 326  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.45   0.00    0.0  15.0  276.1  2.0   0  0.00  100.  1015.    2 NAD-SFC NoSubs
11 11 22 326  9   36.9  0.097  0.408  0.014   66.   72.     -2.2  0.2720  0.72  0.29   0.50  324.0  15.0  276.6  2.0   0  0.00  100.  1015.    2 NAD-SFC NoSubs
11 11 22 326 10   75.0  0.108  0.688  0.011  157.   86.     -1.5  0.2930  0.72  0.23   0.50  343.0  15.0  276.9  2.0   0  0.00  100.  1016.    2 NAD-SFC NoSubs
11 11 22 326 11  100.1  0.171  0.938  0.010  298.  170.     -4.5  0.2930  0.72  0.22   1.00  348.0  15.0  277.2  2.0   0  0.00  100.  1015.    2 NAD-SFC NoSubs
11 11 22 326 12  111.0  0.225  1.084  0.010  415.  256.     -9.2  0.2940  0.72  0.21   1.50    1.0  15.0  278.0  2.0   0  0.00  100.  1014.    2 NAD-SFC NoSubs
11 11 22 326 13  107.3  0.282  1.147  0.010  509.  359.    -18.8  0.2940  0.72  0.21   2.10   12.0  15.0  279.0  2.0   0  0.00   98.  1014.    2 NAD-SFC NoSubs
11 11 22 326 14   89.1  0.220  1.124  0.009  577.  248.    -10.7  0.2940  0.72  0.22   1.50   10.0  15.0  280.2  2.0   0  0.00   91.  1013.    2 NAD-SFC NoSubs
11 11 22 326 15   57.1  0.209  0.992  0.009  617.  229.    -14.4  0.2940  0.72  0.26   1.50   11.0  15.0  281.2  2.0   0  0.00   86.  1012.    2 NAD-SFC NoSubs
11 11 22 326 16   14.2  0.087  0.627  0.009  626.   73.     -4.2  0.2930  0.72  0.35   0.50  351.0  15.0  281.2  2.0   0  0.00   86.  1011.    2 NAD-SFC NoSubs
11 11 22 326 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.65   0.00    0.0  15.0  280.8  2.0   0  0.00   89.  1011.    2 NAD-SFC NoSubs
11 11 22 326 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  280.2  2.0   0  0.00   92.  1011.    2 NAD-SFC NoSubs
11 11 22 326 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  279.8  2.0   0  0.00   96.  1010.    2 NAD-SFC NoSubs
11 11 22 326 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  279.2  2.0   0  0.00   99.  1010.    2 NAD-SFC NoSubs
11 11 22 326 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  278.8  2.0   0  0.00  100.  1010.    2 NAD-SFC NoSubs
11 11 22 326 22   -1.6  0.082 -9.000 -9.000 -999.   57.     31.9  0.2090  0.72  1.00   0.50   65.0  15.0  277.2  2.0   0  0.00  100.  1010.    2 NAD-SFC NoSubs
11 11 22 326 23   -1.6  0.083 -9.000 -9.000 -999.   57.     31.9  0.2090  0.72  1.00   0.50   73.0  15.0  276.1  2.0   0  0.00  100.  1010.    2 NAD-SFC NoSubs
11 11 22 326 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  275.5  2.0   0  0.00  100.  1010.    2 NAD-SFC NoSubs
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11 11 23 327  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72 1.00  0.00   0.0  15.0 275.6  2.0  0  0.00  100. 1009.  2 NAD-SFC NoSubs
11 11 23 327  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72 1.00  0.00   0.0  15.0 275.4  2.0  0  0.00  100. 1009.  2 NAD-SFC NoSubs
11 11 23 327  3   -1.6  0.083 -9.000 -9.000 -999.  57.     32.0 0.2130  0.72 1.00  0.50 105.0  15.0 275.4  2.0  0  0.00  100. 1009.  2 NAD-SFC NoSubs
11 11 23 327  4   -1.6  0.083 -9.000 -9.000 -999.  57.     32.0 0.2130  0.72 1.00  0.50  91.0  15.0 275.6  2.0  0  0.00  100. 1008.  2 NAD-SFC NoSubs
11 11 23 327  5   -1.6  0.083 -9.000 -9.000 -999.  57.     31.9 0.2090  0.72 1.00  0.50  60.0  15.0 275.8  2.0  0  0.00  100. 1008.  2 NAD-SFC NoSubs
11 11 23 327  6   -1.8  0.086 -9.000 -9.000 -999.  61.     32.6 0.2940  0.72 1.00  0.50  22.0  15.0 275.9  2.0  0  0.00  100. 1008.  2 NAD-SFC NoSubs
11 11 23 327  7   -4.2  0.104 -9.000 -9.000 -999.  80.     23.7 0.2940  0.72 1.00  1.00  21.0  15.0 275.8  2.0  0  0.00  100. 1008.  2 NAD-SFC NoSubs
11 11 23 327  8   -2.1  0.089 -9.000 -9.000 -999.  64.     29.6 0.2470  0.72 0.46  1.00  35.0  15.0 275.8  2.0  0  0.00  100. 1007.  2 NAD-SFC NoSubs
11 11 23 327  9   36.0  0.192  0.389  0.011  59.  202.    -17.7 0.2470  0.72 0.29  1.50  41.0  15.0 276.8  2.0  0  0.00   97. 1007.  2 NAD-SFC NoSubs
11 11 23 327 10   74.5  0.215  0.606  0.011 107.  240.    -12.0 0.2940  0.72 0.24  1.50  24.0  15.0 280.5  2.0  0  0.00   74. 1007.  2 NAD-SFC NoSubs
11 11 23 327 11  100.3  0.326  0.813  0.009 192.  447.    -31.0 0.2940  0.72 0.22  2.60   6.0  15.0 283.6  2.0  0  0.00   58. 1006.  2 NAD-SFC NoSubs
11 11 23 327 12  111.5  0.375  0.971  0.008 295.  552.    -42.6 0.2940  0.72 0.21  3.10  13.0  15.0 285.0  2.0  0  0.00   54. 1006.  2 NAD-SFC NoSubs
11 11 23 327 13  107.9  0.374  1.040  0.008 374.  550.    -43.6 0.2940  0.72 0.21  3.10  24.0  15.0 285.8  2.0  0  0.00   53. 1005.  2 NAD-SFC NoSubs
11 11 23 327 14   89.7  0.369  1.056  0.009 470.  538.    -50.2 0.2940  0.72 0.22  3.10  22.0  15.0 286.1  2.0  0  0.00   55. 1005.  2 NAD-SFC NoSubs
11 11 23 327 15   57.5  0.344  0.949  0.009 532.  484.    -63.2 0.2470  0.72 0.26  3.10  32.0  15.0 285.8  2.0  0  0.00   60. 1005.  2 NAD-SFC NoSubs
11 11 23 327 16   14.5  0.319  0.605  0.009 546.  433.   -200.6 0.2470  0.72 0.35  3.10  43.0  15.0 285.1  2.0  0  0.00   64. 1004.  2 NAD-SFC NoSubs
11 11 23 327 17  -29.5  0.289 -9.000 -9.000 -999.  373.    73.1 0.2470  0.72 0.65  3.10  38.0  15.0 284.4  2.0  0  0.00   66. 1004.  2 NAD-SFC NoSubs
11 11 23 327 18  -24.1  0.239 -9.000 -9.000 -999.  281.    50.8 0.2470  0.72 1.00  2.60  39.0  15.0 284.0  2.0  0  0.00   66. 1004.  2 NAD-SFC NoSubs
11 11 23 327 19  -15.4  0.190 -9.000 -9.000 -999.  199.    39.6 0.2470  0.72 1.00  2.10  45.0  15.0 283.8  2.0  0  0.00   66. 1004.  2 NAD-SFC NoSubs
11 11 23 327 20   -8.4  0.140 -9.000 -9.000 -999.  126.    29.2 0.2940  0.72 1.00  1.50  17.0  15.0 283.5  2.0  0  0.00   67. 1004.  2 NAD-SFC NoSubs
11 11 23 327 21   -4.1  0.103 -9.000 -9.000 -999.   79.    23.6 0.2930  0.72 1.00  1.00 343.0  15.0 283.1  2.0  0  0.00   69. 1004.  2 NAD-SFC NoSubs
11 11 23 327 22   -8.1  0.137 -9.000 -9.000 -999.  122.    28.3 0.2720  0.72 1.00  1.50 329.0  15.0 282.8  2.0  0  0.00   71. 1004.  2 NAD-SFC NoSubs
11 11 23 327 23   -8.4  0.140 -9.000 -9.000 -999.  125.    29.1 0.2930  0.72 1.00  1.50 336.0  15.0 282.6  2.0  0  0.00   72. 1004.  2 NAD-SFC NoSubs
11 11 23 327 24  -16.8  0.200 -9.000 -9.000 -999.  214.    42.3 0.2940  0.72 1.00  2.10   2.0  15.0 282.5  2.0  0  0.00   72. 1003.  2 NAD-SFC NoSubs
11 11 24 328  1  -16.8  0.200 -9.000 -9.000 -999.  214.    42.3 0.2940  0.72 1.00  2.10   9.0  15.0 282.4  2.0  0  0.00   73. 1003.  2 NAD-SFC NoSubs
11 11 24 328  2  -16.8  0.200 -9.000 -9.000 -999.  214.    42.3 0.2940  0.72 1.00  2.10  14.0  15.0 282.2  2.0  0  0.00   73. 1003.  2 NAD-SFC NoSubs
11 11 24 328  3  -16.8  0.200 -9.000 -9.000 -999.  214.    42.3 0.2940  0.72 1.00  2.10   6.0  15.0 282.2  2.0  0  0.00   73. 1003.  2 NAD-SFC NoSubs
11 11 24 328  4   -8.4  0.140 -9.000 -9.000 -999.  126.    29.1 0.2930  0.72 1.00  1.50 357.0  15.0 282.2  2.0  0  0.00   74. 1003.  2 NAD-SFC NoSubs
11 11 24 328  5   -8.4  0.140 -9.000 -9.000 -999.  125.    29.0 0.2930  0.72 1.00  1.50 341.0  15.0 282.1  2.0  0  0.00   74. 1003.  2 NAD-SFC NoSubs
11 11 24 328  6  -16.8  0.199 -9.000 -9.000 -999.  214.    42.2 0.2930  0.72 1.00  2.10 338.0  15.0 282.2  2.0  0  0.00   74. 1004.  2 NAD-SFC NoSubs
11 11 24 328  7  -16.8  0.199 -9.000 -9.000 -999.  214.    42.2 0.2930  0.72 1.00  2.10 336.0  15.0 282.2  2.0  0  0.00   74. 1005.  2 NAD-SFC NoSubs
11 11 24 328  8   -6.9  0.207 -9.000 -9.000 -999.  226.   115.2 0.2930  0.72 0.46  2.10 337.0  15.0 282.4  2.0  0  0.00   74. 1005.  3 NAD-SFC NoSubs
11 11 24 328  9   37.4  0.256  0.442  0.005  83.  310.    -40.1 0.2930  0.72 0.29  2.10 350.0  15.0 282.9  2.0  0  0.00   72. 1006.  3 NAD-SFC NoSubs
11 11 24 328 10   75.7 -9.000 -9.000 -9.000 271. -999. -99999.0 0.2235  0.72 0.24  0.00   0.0  15.0 285.8  2.0  0  0.00   59. 1006.  3 NAD-SFC NoSubs
11 11 24 328 11  101.1  0.326  1.084  0.005 453.  447.    -30.8 0.2940  0.72 0.22  2.60   1.0  15.0 287.2  2.0  0  0.00   53. 1007.  3 NAD-SFC NoSubs
11 11 24 328 12  112.3  0.329  1.239  0.005 608.  453.    -28.5 0.2930  0.72 0.21  2.60 354.0  15.0 288.6  2.0  0  0.00   47. 1007.  3 NAD-SFC NoSubs
11 11 24 328 13  108.9  0.328  1.323  0.005 764.  451.    -29.1 0.2930  0.72 0.21  2.60 349.0  15.0 289.4  2.0  0  0.00   45. 1007.  3 NAD-SFC NoSubs
11 11 24 328 14   91.0  0.318  1.310  0.005 889.  430.    -31.6 0.2720  0.72 0.22  2.60 326.0  15.0 289.8  2.0  0  0.00   44. 1007.  3 NAD-SFC NoSubs
11 11 24 328 15   59.4  0.307  1.167  0.005 962.  408.    -43.7 0.2720  0.72 0.26  2.60 317.0  15.0 289.9  2.0  0  0.00   45. 1007.  3 NAD-SFC NoSubs
11 11 24 328 16   17.0  0.282  0.775  0.005 982.  360.   -118.8 0.2720  0.72 0.36  2.60 318.0  15.0 289.8  2.0  0  0.00   54. 1007.  3 NAD-SFC NoSubs
11 11 24 328 17  -38.9  0.398 -9.000 -9.000 -999.  602.   145.0 0.2720  0.72 0.65  4.10 322.0  15.0 288.2  2.0  0  0.00   69. 1007.  3 NAD-SFC NoSubs
11 11 24 328 18  -42.1  0.397 -9.000 -9.000 -999.  600.   133.7 0.2720  0.72 1.00  4.10 307.0  15.0 286.0  2.0  0  0.00   88. 1008.  3 NAD-SFC NoSubs
11 11 24 328 19  -36.9  0.347 -9.000 -9.000 -999.  492.   101.7 0.2720  0.72 1.00  3.60 307.0  15.0 285.2  2.0  0  0.00   94. 1009.  3 NAD-SFC NoSubs
11 11 24 328 20  -30.5  0.297 -9.000 -9.000 -999.  389.    77.2 0.2720  0.72 1.00  3.10 309.0  15.0 284.8  2.0  0  0.00   95. 1010.  4 NAD-SFC NoSubs
11 11 24 328 21  -29.1  0.297 -9.000 -9.000 -999.  389.    81.2 0.2720  0.72 1.00  3.10 326.0  15.0 284.2  2.0  0  0.00   97. 1011.  5 NAD-SFC NoSubs
11 11 24 328 22  -16.0  0.200 -9.000 -9.000 -999.  220.    45.3 0.2930  0.72 1.00  2.10 345.0  15.0 283.9  2.0  0  0.00   99. 1011.  5 NAD-SFC NoSubs
11 11 24 328 23   -8.0  0.140 -9.000 -9.000 -999.  126.    30.8 0.2930  0.72 1.00  1.50 335.0  15.0 283.8  2.0  0  0.00   99. 1012.  5 NAD-SFC NoSubs
11 11 24 328 24   -3.7  0.099 -9.000 -9.000 -999.   75.    23.4 0.2720  0.72 1.00  1.00 321.0  15.0 283.4  2.0  0  0.00  100. 1012.  5 NAD-SFC NoSubs
11 11 25 329  1   -7.8  0.140 -9.000 -9.000 -999.  126.    31.9 0.2930  0.72 1.00  1.50 335.0  15.0 283.1  2.0  0  0.00  100. 1012.  6 NAD-SFC NoSubs
11 11 25 329  2  -15.0  0.202 -9.000 -9.000 -999.  217.    49.3 0.2930  0.72 1.00  2.10 339.0  15.0 283.0  2.0  0  0.00  100. 1012.  7 NAD-SFC NoSubs
11 11 25 329  3   -7.5  0.140 -9.000 -9.000 -999.  127.    33.4 0.2930  0.72 1.00  1.50 340.0  15.0 283.1  2.0  0  0.00  100. 1012.  7 NAD-SFC NoSubs
11 11 25 329  4   -7.1  0.141 -9.000 -9.000 -999.  127.    35.4 0.2930  0.72 1.00  1.50 351.0  15.0 283.1  2.0  0  0.25  100. 1013.  8 NAD-SFC NoSubs
11 11 25 329  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72 1.00  0.00   0.0  15.0 283.0  2.0  0  0.25   99. 1013.  3 NAD-SFC NoSubs
11 11 25 329  6   -8.5  0.140 -9.000 -9.000 -999.  126.    29.1 0.2940  0.72 1.00  1.50  15.0  15.0 282.9  2.0  0  0.00   99. 1013.  2 NAD-SFC NoSubs
11 11 25 329  7   -8.5  0.140 -9.000 -9.000 -999.  126.    29.1 0.2940  0.72 1.00  1.50  11.0  15.0 282.8  2.0  0  0.00   99. 1014.  2 NAD-SFC NoSubs
11 11 25 329  8   13.2 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72 0.47  0.00   0.0  15.0 282.8  2.0  0  0.00   99. 1014.  2 NAD-SFC NoSubs
11 11 25 329  9   35.0  0.199  0.646  0.006 279.  213.    -20.3 0.2930  0.72 0.30  1.50 347.0  15.0 282.6  2.0  0  0.00   98. 1014.  2 NAD-SFC NoSubs
11 11 25 329 10   74.0  0.215  0.932  0.006 395.  239.    -12.1 0.2930  0.72 0.24  1.50 340.0  15.0 282.5  2.0  0  0.00   96. 1015.  3 NAD-SFC NoSubs
11 11 25 329 11   99.0  0.279  1.130  0.005 528.  354.    -19.9 0.2930  0.72 0.22  2.10 331.0  15.0 282.6  2.0  0  0.00   95. 1015.  3 NAD-SFC NoSubs
11 11 25 329 12  109.2  0.328  1.247  0.006 643.  451.    -29.2 0.2930  0.72 0.21  2.60 332.0  15.0 282.8  2.0  0  0.00   94. 1014.  2 NAD-SFC NoSubs
11 11 25 329 13  105.6  0.224  1.311  0.007 773.  259.     -9.6 0.2930  0.72 0.21  1.50 344.0  15.0 282.8  2.0  0  0.00   93. 1014.  2 NAD-SFC NoSubs
11 11 25 329 14   87.4  0.219  1.281  0.008 870.  246.    -10.9 0.2940  0.72 0.22  1.50  19.0  15.0 282.8  2.0  0  0.00   92. 1014.  2 NAD-SFC NoSubs
11 11 25 329 15   55.6  0.200  1.125  0.009 926.  215.    -13.1 0.2470  0.72 0.26  1.50  43.0  15.0 282.8  2.0  0  0.00   93. 1014.  2 NAD-SFC NoSubs
11 11 25 329 16   13.0  0.126  0.697  0.009 939.  109.    -13.9 0.2090  0.72 0.36  1.00  65.0  15.0 282.8  2.0  0  0.00   93. 1014.  2 NAD-SFC NoSubs
11 11 25 329 17   -1.5  0.080 -9.000 -9.000 -999.   54.    31.1 0.2090  0.72 0.66  0.50  68.0  15.0 282.8  2.0  0  0.00   94. 1014.  2 NAD-SFC NoSubs
11 11 25 329 18   -1.6  0.082 -9.000 -9.000 -999.   56.    31.7 0.2090  0.72 1.00  0.50  84.0  15.0 282.8  2.0  0  0.00   94. 1014.  2 NAD-SFC NoSubs
11 11 25 329 19   -1.6  0.082 -9.000 -9.000 -999.   56.    31.7 0.2090  0.72 1.00  0.50  70.0  15.0 282.2  2.0  0  0.00   96. 1014.  2 NAD-SFC NoSubs
11 11 25 329 20   -1.6  0.083 -9.000 -9.000 -999.   58.    32.1 0.2470  0.72 1.00  0.50  37.0  15.0 281.8  2.0  0  0.00   98. 1015.  2 NAD-SFC NoSubs
11 11 25 329 21   -7.9  0.133 -9.000 -9.000 -999.  117.    27.3 0.2470  0.72 1.00  1.50  45.0  15.0 281.2  2.0  0  0.00  100. 1015.  2 NAD-SFC NoSubs
11 11 25 329 22   -7.9  0.133 -9.000 -9.000 -999.  117.    27.2 0.2470  0.72 1.00  1.50  34.0  15.0 280.2  2.0  0  0.00  100. 1016.  2 NAD-SFC NoSubs
11 11 25 329 23   -4.2  0.103 -9.000 -9.000 -999.   80.    23.7 0.2940  0.72 1.00  1.00   7.0  15.0 280.6  2.0  0  0.00  100. 1017.  2 NAD-SFC NoSubs
11 11 25 329 24   -1.7  0.085 -9.000 -9.000 -999.   60.    32.4 0.2930  0.72 1.00  0.50 341.0  15.0 280.5  2.0  0  0.00  100. 1017.  2 NAD-SFC NoSubs
11 11 26 330  1   -1.7  0.085 -9.000 -9.000 -999.   59.    32.3 0.2720  0.72 1.00  0.50 306.0  15.0 280.2  2.0  0  0.00  100. 1017.  2 NAD-SFC NoSubs
11 11 26 330  2   -1.6  0.082 -9.000 -9.000 -999.   57.    31.8 0.2160  0.72 1.00  0.50 293.0  15.0 280.1  2.0  0  0.00  100. 1018.  2 NAD-SFC NoSubs
11 11 26 330  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72 1.00  0.00   0.0  15.0 280.0  2.0  0  0.00  100. 1018.  2 NAD-SFC NoSubs
11 11 26 330  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72 1.00  0.00   0.0  15.0 279.8  2.0  0  0.00  100. 1018.  2 NAD-SFC NoSubs
11 11 26 330  5   -1.6  0.082 -9.000 -9.000 -999.   57.    31.9 0.2160  0.72 1.00  0.50 277.0  15.0 279.8  2.0  0  0.00  100. 1018.  2 NAD-SFC NoSubs
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11 11 26 330  6   -1.7  0.085 -9.000 -9.000 -999.   59.     32.3  0.2720  0.72  1.00   0.50  306.0  15.0  279.8  2.0   0  0.00  100.  1018.   2 NAD-SFC NoSubs
11 11 26 330  7   -1.7  0.085 -9.000 -9.000 -999.   60.     32.4  0.2930  0.72  1.00   0.50  333.0  15.0  279.6  2.0   0  0.00  100.  1018.   2 NAD-SFC NoSubs
11 11 26 330  8   -0.9  0.062 -9.000 -9.000 -999.   37.     25.7  0.2930  0.72  0.47   0.50  338.0  15.0  279.5  2.0   0  0.00  100.  1018.   2 NAD-SFC NoSubs
11 11 26 330  9   33.4  0.097  0.591  0.019  224.   73.     -2.5  0.2930  0.72  0.30   0.50  333.0  15.0  279.4  2.0   0  0.00  100.  1018.   2 NAD-SFC NoSubs
11 11 26 330 10   71.4  0.108  0.803  0.018  264.   85.     -1.6  0.2930  0.72  0.24   0.50  345.0  15.0  279.5  2.0   0  0.00  100.  1018.   2 NAD-SFC NoSubs
11 11 26 330 11   96.7 -9.000 -9.000 -9.000  310. -999. -99999.0  0.2235  0.72  0.22   0.00    0.0  15.0  279.9  2.0   0  0.00  100.  1018.   2 NAD-SFC NoSubs
11 11 26 330 12  108.0  0.282  1.018  0.016  355.  359.    -18.8  0.2940  0.72  0.21   2.10   11.0  15.0  281.0  2.0   0  0.00   95.  1017.   2 NAD-SFC NoSubs
11 11 26 330 13  104.7  0.327  1.048  0.016  398.  448.    -30.2  0.2940  0.72  0.21   2.60   18.0  15.0  282.4  2.0   0  0.00   89.  1016.   2 NAD-SFC NoSubs
11 11 26 330 14   87.1  0.322  1.041  0.017  469.  438.    -34.6  0.2940  0.72  0.23   2.60   22.0  15.0  284.2  2.0   0  0.00   81.  1015.   2 NAD-SFC NoSubs
11 11 26 330 15   55.6  0.310  0.921  0.017  509.  415.    -48.7  0.2940  0.72  0.26   2.60   15.0  15.0  285.2  2.0   0  0.00   77.  1015.   2 NAD-SFC NoSubs
11 11 26 330 16   14.9  0.333  0.602  0.016  527.  460.   -222.8  0.2940  0.72  0.36   3.10   15.0  15.0  291.0  2.0   0  0.00   48.  1014.   2 NAD-SFC NoSubs
11 11 26 330 17  -34.4  0.338 -9.000 -9.000 -999.  471.    101.1  0.2470  0.72  0.66   3.60   34.0  15.0  289.8  2.0   0  0.00   52.  1013.   2 NAD-SFC NoSubs
11 11 26 330 18  -31.2  0.288 -9.000 -9.000 -999.  373.     69.5  0.2470  0.72  1.00   3.10   37.0  15.0  289.1  2.0   0  0.00   54.  1013.   2 NAD-SFC NoSubs
11 11 26 330 19   -3.9  0.099 -9.000 -9.000 -999.  119.     22.9  0.2470  0.72  1.00   1.00   31.0  15.0  288.2  2.0   0  0.00   58.  1014.   2 NAD-SFC NoSubs
11 11 26 330 20   -1.7  0.085 -9.000 -9.000 -999.   59.     32.1  0.2930  0.72  1.00   0.50  343.0  15.0  287.5  2.0   0  0.00   63.  1014.   2 NAD-SFC NoSubs
11 11 26 330 21   -4.1  0.103 -9.000 -9.000 -999.   79.     23.7  0.2940  0.72  1.00   1.00   21.0  15.0  286.9  2.0   0  0.00   66.  1014.   2 NAD-SFC NoSubs
11 11 26 330 22   -8.5  0.140 -9.000 -9.000 -999.  126.     29.3  0.2940  0.72  1.00   1.50   26.0  15.0  286.4  2.0   0  0.00   68.  1015.   2 NAD-SFC NoSubs
11 11 26 330 23  -16.9  0.200 -9.000 -9.000 -999.  214.     42.7  0.2940  0.72  1.00   2.10   26.0  15.0  286.2  2.0   0  0.00   69.  1015.   2 NAD-SFC NoSubs
11 11 26 330 24  -16.9  0.200 -9.000 -9.000 -999.  214.     42.6  0.2940  0.72  1.00   2.10   14.0  15.0  286.0  2.0   0  0.00   69.  1015.   2 NAD-SFC NoSubs
11 11 27 331  1  -26.4  0.251 -9.000 -9.000 -999.  302.     54.5  0.2930  0.72  1.00   2.60  359.0  15.0  285.8  2.0   0  0.00   70.  1015.   2 NAD-SFC NoSubs
11 11 27 331  2  -26.4  0.251 -9.000 -9.000 -999.  302.     54.5  0.2930  0.72  1.00   2.60  349.0  15.0  285.5  2.0   0  0.00   71.  1015.   2 NAD-SFC NoSubs
11 11 27 331  3  -26.4  0.251 -9.000 -9.000 -999.  302.     54.5  0.2930  0.72  1.00   2.60  334.0  15.0  285.2  2.0   0  0.00   72.  1015.   2 NAD-SFC NoSubs
11 11 27 331  4  -25.5  0.246 -9.000 -9.000 -999.  292.     52.8  0.2720  0.72  1.00   2.60  321.0  15.0  284.9  2.0   0  0.00   74.  1016.   2 NAD-SFC NoSubs
11 11 27 331  5  -16.3  0.195 -9.000 -9.000 -999.  208.     41.2  0.2720  0.72  1.00   2.10  329.0  15.0  284.5  2.0   0  0.00   75.  1016.   2 NAD-SFC NoSubs
11 11 27 331  6   -4.2  0.103 -9.000 -9.000 -999.   83.     23.6  0.2930  0.72  1.00   1.00  332.0  15.0  284.1  2.0   0  0.00   76.  1016.   2 NAD-SFC NoSubs
11 11 27 331  7   -1.7  0.085 -9.000 -9.000 -999.   59.     32.3  0.2930  0.72  1.00   0.50  333.0  15.0  283.6  2.0   0  0.00   77.  1016.   2 NAD-SFC NoSubs
11 11 27 331  8   -0.9  0.062 -9.000 -9.000 -999.   37.     25.8  0.2930  0.72  0.48   0.50  342.0  15.0  283.2  2.0   0  0.00   77.  1016.   2 NAD-SFC NoSubs
11 11 27 331  9   33.4  0.097  0.442  0.014   93.   73.     -2.5  0.2930  0.72  0.30   0.50  346.0  15.0  284.2  2.0   0  0.00   71.  1016.   2 NAD-SFC NoSubs
11 11 27 331 10   72.0  0.162  0.715  0.011  184.  156.     -5.3  0.2720  0.72  0.24   1.00  322.0  15.0  286.8  2.0   0  0.00   56.  1016.   2 NAD-SFC NoSubs
11 11 27 331 11   97.9  0.168  0.930  0.009  298.  165.     -4.4  0.2720  0.72  0.22   1.00  325.0  15.0  288.5  2.0   0  0.00   50.  1016.   2 NAD-SFC NoSubs
11 11 27 331 12  109.5  0.221  1.064  0.008  399.  249.     -8.9  0.2720  0.72  0.21   1.50  327.0  15.0  289.9  2.0   0  0.00   46.  1015.   2 NAD-SFC NoSubs
11 11 27 331 13  106.4  0.224  1.139  0.008  503.  254.     -9.5  0.2930  0.72  0.21   1.50  338.0  15.0  290.9  2.0   0  0.00   44.  1014.   2 NAD-SFC NoSubs
11 11 27 331 14   88.5  0.219  1.121  0.007  575.  246.    -10.8  0.2930  0.72  0.23   1.50  351.0  15.0  291.2  2.0   0  0.00   43.  1014.   2 NAD-SFC NoSubs
11 11 27 331 15   56.9  0.209  0.990  0.007  617.  229.    -14.4  0.2930  0.72  0.26   1.50  358.0  15.0  291.2  2.0   0  0.00   47.  1014.   2 NAD-SFC NoSubs
11 11 27 331 16   14.4  0.137  0.630  0.007  627.  123.    -16.1  0.2930  0.72  0.36   1.00  354.0  15.0  290.8  2.0   0  0.00   50.  1013.   2 NAD-SFC NoSubs
11 11 27 331 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.66   0.00    0.0  15.0  289.9  2.0   0  0.00   54.  1013.   2 NAD-SFC NoSubs
11 11 27 331 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  288.8  2.0   0  0.00   59.  1013.   2 NAD-SFC NoSubs
11 11 27 331 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  287.8  2.0   0  0.00   64.  1013.   2 NAD-SFC NoSubs
11 11 27 331 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  286.9  2.0   0  0.00   69.  1012.   2 NAD-SFC NoSubs
11 11 27 331 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  286.2  2.0   0  0.00   72.  1012.   2 NAD-SFC NoSubs
11 11 27 331 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  285.9  2.0   0  0.00   73.  1012.   2 NAD-SFC NoSubs
11 11 27 331 23   -1.6  0.083 -9.000 -9.000 -999.   57.     31.9  0.2470  0.72  1.00   0.50   38.0  15.0  285.6  2.0   0  0.00   74.  1012.   2 NAD-SFC NoSubs
11 11 27 331 24   -1.7  0.085 -9.000 -9.000 -999.   59.     32.2  0.2940  0.72  1.00   0.50   25.0  15.0  285.2  2.0   0  0.00   75.  1013.   2 NAD-SFC NoSubs
11 11 28 332  1   -1.7  0.085 -9.000 -9.000 -999.   59.     32.2  0.2930  0.72  1.00   0.50  354.0  15.0  285.0  2.0   0  0.00   75.  1013.   2 NAD-SFC NoSubs
11 11 28 332  2   -1.6  0.082 -9.000 -9.000 -999.   56.     31.7  0.2160  0.72  1.00   0.50  295.0  15.0  284.8  2.0   0  0.00   76.  1013.   2 NAD-SFC NoSubs
11 11 28 332  3   -1.6  0.082 -9.000 -9.000 -999.   56.     31.7  0.2160  0.72  1.00   0.50  279.0  15.0  284.5  2.0   0  0.00   76.  1013.   2 NAD-SFC NoSubs
11 11 28 332  4   -3.7  0.097 -9.000 -9.000 -999.   73.     22.4  0.2160  0.72  1.00   1.00  287.0  15.0  284.2  2.0   0  0.00   75.  1013.   2 NAD-SFC NoSubs
11 11 28 332  5   -1.7  0.084 -9.000 -9.000 -999.   59.     32.1  0.2720  0.72  1.00   0.50  304.0  15.0  284.2  2.0   0  0.00   74.  1013.   2 NAD-SFC NoSubs
11 11 28 332  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  283.9  2.0   0  0.00   74.  1013.   2 NAD-SFC NoSubs
11 11 28 332  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  283.6  2.0   0  0.00   75.  1013.   2 NAD-SFC NoSubs
11 11 28 332  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.48   0.00    0.0  15.0  283.4  2.0   0  0.00   75.  1013.   2 NAD-SFC NoSubs
11 11 28 332  9   32.3 -9.000 -9.000 -9.000   86. -999. -99999.0  0.2235  0.72  0.30   0.00    0.0  15.0  283.4  2.0   0  0.00   75.  1013.   2 NAD-SFC NoSubs
11 11 28 332 10   70.5  0.100  0.725  0.014  195.   76.     -1.3  0.2130  0.72  0.24   0.50  101.0  15.0  284.5  2.0   0  0.00   71.  1013.   2 NAD-SFC NoSubs
11 11 28 332 11   96.5 -9.000 -9.000 -9.000  284. -999. -99999.0  0.2235  0.72  0.22   0.00    0.0  15.0  286.6  2.0   0  0.00   60.  1013.   2 NAD-SFC NoSubs
11 11 28 332 12  108.0 -9.000 -9.000 -9.000  359. -999. -99999.0  0.2235  0.72  0.21   0.00    0.0  15.0  287.8  2.0   0  0.00   57.  1012.   2 NAD-SFC NoSubs
11 11 28 332 13  104.9  0.111  1.085  0.010  440.   89.     -1.2  0.2720  0.72  0.21   0.50  309.0  15.0  288.5  2.0   0  0.00   55.  1012.   2 NAD-SFC NoSubs
11 11 28 332 14   87.1  0.109  1.075  0.010  514.   86.     -1.3  0.2720  0.72  0.23   0.50  327.0  15.0  289.0  2.0   0  0.00   53.  1011.   2 NAD-SFC NoSubs
11 11 28 332 15   55.6 -9.000 -9.000 -9.000  556. -999. -99999.0  0.2235  0.72  0.26   0.00    0.0  15.0  289.1  2.0   0  0.00   55.  1011.   2 NAD-SFC NoSubs
11 11 28 332 16   13.4 -9.000 -9.000 -9.000  565. -999. -99999.0  0.2235  0.72  0.36   0.00    0.0  15.0  288.8  2.0   0  0.00   58.  1010.   2 NAD-SFC NoSubs
11 11 28 332 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.67   0.00    0.0  15.0  287.9  2.0   0  0.00   63.  1010.   2 NAD-SFC NoSubs
11 11 28 332 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  287.1  2.0   0  0.00   67.  1010.   2 NAD-SFC NoSubs
11 11 28 332 19   -1.5  0.081 -9.000 -9.000 -999.   55.     31.4  0.1970  0.72  1.00   0.50  134.0  15.0  286.4  2.0   0  0.00   71.  1010.   2 NAD-SFC NoSubs
11 11 28 332 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  285.9  2.0   0  0.00   74.  1010.   2 NAD-SFC NoSubs
11 11 28 332 21   -1.6  0.083 -9.000 -9.000 -999.   57.     31.9  0.2470  0.72  1.00   0.50   59.0  15.0  285.2  2.0   0  0.00   77.  1010.   2 NAD-SFC NoSubs
11 11 28 332 22   -1.6  0.083 -9.000 -9.000 -999.   57.     31.9  0.2470  0.72  1.00   0.50   59.0  15.0  285.0  2.0   0  0.00   79.  1011.   2 NAD-SFC NoSubs
11 11 28 332 23   -3.9  0.100 -9.000 -9.000 -999.   75.     22.9  0.2470  0.72  1.00   1.00   48.0  15.0  284.8  2.0   0  0.00   79.  1011.   2 NAD-SFC NoSubs
11 11 28 332 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  284.8  2.0   0  0.00   80.  1011.   2 NAD-SFC NoSubs
11 11 29 333  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  284.5  2.0   0  0.00   80.  1011.   2 NAD-SFC NoSubs
11 11 29 333  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  1.00   0.00    0.0  15.0  284.2  2.0   0  0.00   80.  1011.   2 NAD-SFC NoSubs
11 11 29 333  3   -1.7  0.084 -9.000 -9.000 -999.   59.     32.2  0.2720  0.72  1.00   0.50  316.0  15.0  283.8  2.0   0  0.00   80.  1011.   2 NAD-SFC NoSubs
11 11 29 333  4   -1.7  0.084 -9.000 -9.000 -999.   59.     32.2  0.2720  0.72  1.00   0.50  326.0  15.0  283.4  2.0   0  0.00   81.  1011.   2 NAD-SFC NoSubs
11 11 29 333  5   -1.7  0.084 -9.000 -9.000 -999.   59.     32.2  0.2720  0.72  1.00   0.50  328.0  15.0  283.2  2.0   0  0.00   81.  1011.   2 NAD-SFC NoSubs
11 11 29 333  6   -1.7  0.085 -9.000 -9.000 -999.   59.     32.3  0.2930  0.72  1.00   0.50  335.0  15.0  283.4  2.0   0  0.00   81.  1012.   2 NAD-SFC NoSubs
11 11 29 333  7   -1.7  0.084 -9.000 -9.000 -999.   59.     32.2  0.2720  0.72  1.00   0.50  320.0  15.0  283.4  2.0   0  0.00   81.  1012.   2 NAD-SFC NoSubs
11 11 29 333  8   15.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.2235  0.72  0.49   0.00    0.0  15.0  283.2  2.0   0  0.00   82.  1011.   2 NAD-SFC NoSubs
11 11 29 333  9   31.7  0.097  0.467  0.015  116.   72.     -2.6  0.2930  0.72  0.30   0.50  333.0  15.0  284.6  2.0   0  0.00   77.  1011.   2 NAD-SFC NoSubs
11 11 29 333 10   70.1  0.107  0.746  0.014  214.   84.     -1.6  0.2930  0.72  0.24   0.50  333.0  15.0  286.5  2.0   0  0.00   70.  1011.   2 NAD-SFC NoSubs
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11 11 29 333 11   96.0 -9.000 -9.000 -9.000  304. -999. -99999.0 0.2235  0.72  0.22  0.00   0.0  15.0 288.0  2.0    0  0.00  62. 1011.    2 NAD-SFC NoSubs
11 11 29 333 12  107.8  0.112  1.045  0.014  382.   90.     -1.2 0.2720  0.72  0.21  0.50 324.0  15.0 289.8  2.0    0  0.00  53. 1010.    2 NAD-SFC NoSubs
11 11 29 333 13  104.9  0.220  1.107  0.014  466.  248.     -9.1 0.2720  0.72  0.21  1.50 322.0  15.0 290.8  2.0    0  0.00  48. 1009.    2 NAD-SFC NoSubs
11 11 29 333 14   87.3  0.215  1.087  0.014  529.  240.    -10.3 0.2720  0.72  0.23  1.50 317.0  15.0 291.2  2.0    0  0.00  47. 1008.    2 NAD-SFC NoSubs
11 11 29 333 15   55.9  0.205  0.958  0.014  565.  223.    -13.8 0.2720  0.72  0.26  1.50 325.0  15.0 291.4  2.0    0  0.00  47. 1008.    2 NAD-SFC NoSubs
11 11 29 333 16   13.9  0.183  0.606  0.014  574.  188.    -39.6 0.2930  0.72  0.36  1.50 333.0  15.0 291.2  2.0    0  0.00  50. 1007.    2 NAD-SFC NoSubs
11 11 29 333 17   -3.8  0.100 -9.000 -9.000 -999.   78.     23.3 0.2720  0.72  0.67  1.00 323.0  15.0 290.5  2.0    0  0.00  54. 1007.    2 NAD-SFC NoSubs
11 11 29 333 18   -1.5  0.081 -9.000 -9.000 -999.   56.     31.5 0.2160  0.72  1.00  0.50 286.0  15.0 289.2  2.0    0  0.00  58. 1007.    2 NAD-SFC NoSubs
11 11 29 333 19   -1.4  0.079 -9.000 -9.000 -999.   54.     31.1 0.1750  0.72  1.00  0.50 249.0  15.0 288.2  2.0    0  0.00  63. 1007.    2 NAD-SFC NoSubs
11 11 29 333 20   -1.5  0.080 -9.000 -9.000 -999.   54.     31.1 0.1750  0.72  1.00  0.50 257.0  15.0 287.1  2.0    0  0.00  68. 1007.    2 NAD-SFC NoSubs
11 11 29 333 21   -1.7  0.084 -9.000 -9.000 -999.   58.     32.1 0.2720  0.72  1.00  0.50 301.0  15.0 286.2  2.0    0  0.00  72. 1007.    2 NAD-SFC NoSubs
11 11 29 333 22   -4.0  0.101 -9.000 -9.000 -999.   77.     23.3 0.2720  0.72  1.00  1.00 318.0  15.0 285.8  2.0    0  0.00  74. 1007.    2 NAD-SFC NoSubs
11 11 29 333 23   -8.1  0.137 -9.000 -9.000 -999.  122.     28.4 0.2720  0.72  1.00  1.50 318.0  15.0 285.2  2.0    0  0.00  75. 1008.    2 NAD-SFC NoSubs
11 11 29 333 24  -16.2  0.195 -9.000 -9.000 -999.  207.     41.2 0.2720  0.72  1.00  2.10 323.0  15.0 284.8  2.0    0  0.00  77. 1008.    2 NAD-SFC NoSubs
11 11 30 334  1  -16.8  0.200 -9.000 -9.000 -999.  214.     42.4 0.2930  0.72  1.00  2.10 333.0  15.0 284.2  2.0    0  0.00  79. 1008.    2 NAD-SFC NoSubs
11 11 30 334  2   -8.1  0.137 -9.000 -9.000 -999.  122.     28.3 0.2720  0.72  1.00  1.50 322.0  15.0 283.8  2.0    0  0.00  81. 1008.    2 NAD-SFC NoSubs
11 11 30 334  3   -8.1  0.137 -9.000 -9.000 -999.  122.     28.3 0.2720  0.72  1.00  1.50 312.0  15.0 283.2  2.0    0  0.00  83. 1008.    2 NAD-SFC NoSubs
11 11 30 334  4   -4.0  0.101 -9.000 -9.000 -999.   78.     23.3 0.2720  0.72  1.00  1.00 300.0  15.0 282.9  2.0    0  0.00  84. 1008.    2 NAD-SFC NoSubs
11 11 30 334  5   -1.7  0.085 -9.000 -9.000 -999.   60.     32.3 0.2930  0.72  1.00  0.50 348.0  15.0 282.5  2.0    0  0.00  85. 1008.    2 NAD-SFC NoSubs
11 11 30 334  6   -1.7  0.085 -9.000 -9.000 -999.   60.     32.4 0.2940  0.72  1.00  0.50  27.0  15.0 282.0  2.0    0  0.00  88. 1007.    2 NAD-SFC NoSubs
11 11 30 334  7   -1.6  0.083 -9.000 -9.000 -999.   58.     32.1 0.2470  0.72  1.00  0.50  31.0  15.0 281.6  2.0    0  0.00  90. 1007.    2 NAD-SFC NoSubs
11 11 30 334  8   14.4 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.2235  0.72  0.49  0.00   0.0  15.0 281.4  2.0    0  0.00  91. 1007.    2 NAD-SFC NoSubs
11 11 30 334  9   30.4  0.146  0.493  0.015  142.  134.     -9.3 0.2720  0.72  0.31  1.00 326.0  15.0 282.9  2.0    0  0.00  82. 1007.    2 NAD-SFC NoSubs
11 11 30 334 10   68.8  0.213  0.753  0.014  223.  236.    -12.6 0.2930  0.72  0.24  1.50 338.0  15.0 284.8  2.0    0  0.00  74. 1007.    2 NAD-SFC NoSubs
11 11 30 334 11   94.6  0.319  0.934  0.013  309.  432.    -30.7 0.2720  0.72  0.22  2.60 326.0  15.0 286.0  2.0    0  0.00  68. 1006.    2 NAD-SFC NoSubs
11 11 30 334 12  106.4  0.374  1.045  0.012  384.  548.    -44.0 0.2930  0.72  0.21  3.10 335.0  15.0 287.4  2.0    0  0.00  61. 1006.    2 NAD-SFC NoSubs
11 11 30 334 13  103.6  0.464  1.100  0.010  460.  759.    -86.7 0.2930  0.72  0.21  4.10 338.0  15.0 288.8  2.0    0  0.00  53. 1005.    2 NAD-SFC NoSubs
11 11 30 334 14   87.2  0.553  1.080  0.008  517.  986.   -173.8 0.2930  0.72  0.23  5.10 342.0  15.0 289.8  2.0    0  0.00  46. 1004.    3 NAD-SFC NoSubs
11 11 30 334 15   55.2  0.441  0.947  0.011  551.  715.   -139.5 0.2720  0.72  0.26  4.10 328.0  15.0 290.5  2.0    0  0.00  47. 1004.    2 NAD-SFC NoSubs
11 11 30 334 16   13.3  0.122  0.593  0.012  558.  282.    -12.2 0.1750  0.72  0.36  1.00 266.0  15.0 290.5  2.0    0  0.00  51. 1003.    2 NAD-SFC NoSubs
11 11 30 334 17  -27.5  0.269 -9.000 -9.000 -999.  335.     63.3 0.1900  0.72  0.67  3.10 194.0  15.0 289.2  2.0    0  0.00  53. 1002.    2 NAD-SFC NoSubs
11 11 30 334 18  -42.7  0.397 -9.000 -9.000 -999.  600.    130.6 0.2720  0.72  1.00  4.10 306.0  15.0 286.9  2.0    0  0.00  56. 1002.    2 NAD-SFC NoSubs
11 11 30 334 19  -64.0  0.890 -9.000 -9.000 -999. 2014.    983.5 0.2930  0.72  1.00  8.70 336.0  15.0 285.4  2.0    0  0.00  55. 1002.    2 NAD-SFC NoSubs
11 11 30 334 20  -64.0  1.273 -9.000 -9.000 -999. 3433.   2882.4 0.2930  0.72  1.00 12.30 335.0  15.0 284.9  2.0    0  0.00  48. 1002.    2 NAD-SFC NoSubs
11 11 30 334 21  -64.0  1.168 -9.000 -9.000 -999. 3063.   2222.4 0.2930  0.72  1.00 11.30 331.0  15.0 284.1  2.0    0  0.00  48. 1002.    2 NAD-SFC NoSubs
11 11 30 334 22  -64.0  1.115 -9.000 -9.000 -999. 2842.   1933.2 0.2930  0.72  1.00 10.80 334.0  15.0 283.2  2.0    0  0.00  49. 1002.    2 NAD-SFC NoSubs
11 11 30 334 23  -64.0  1.061 -9.000 -9.000 -999. 2639.   1671.2 0.2930  0.72  1.00 10.30 330.0  15.0 282.8  2.0    0  0.00  49. 1003.    2 NAD-SFC NoSubs
11 11 30 334 24  -64.0  0.954 -9.000 -9.000 -999. 2268.   1215.2 0.2930  0.72  1.00  9.30 334.0  15.0 282.2  2.0    0  0.00  50. 1003.    2 NAD-SFC NoSubs
11 12  1 335  1  -64.0  0.669 -9.000 -9.000 -999. 1428.    418.8 0.0950  0.72  1.00  8.70 345.0  15.0 281.8  2.0    0  0.00  51. 1003.    2 NAD-SFC NoSubs
11 12  1 335  2  -64.0  0.626 -9.000 -9.000 -999. 1200.    343.3 0.0950  0.72  1.00  8.20 341.0  15.0 281.4  2.0    0  0.00  51. 1003.    2 NAD-SFC NoSubs
11 12  1 335  3  -64.0  0.669 -9.000 -9.000 -999. 1312.    418.8 0.0950  0.72  1.00  8.70 342.0  15.0 281.2  2.0    0  0.00  51. 1003.    2 NAD-SFC NoSubs
11 12  1 335  4  -64.0  0.845 -9.000 -9.000 -999. 1857.    842.5 0.0950  0.72  1.00 10.80 344.0  15.0 281.2  2.0    0  0.00  49. 1004.    2 NAD-SFC NoSubs
11 12  1 335  5  -64.0  0.886 -9.000 -9.000 -999. 1995.    971.4 0.0950  0.72  1.00 11.30 341.0  15.0 281.4  2.0    0  0.00  48. 1004.    2 NAD-SFC NoSubs
11 12  1 335  6  -64.0  0.845 -9.000 -9.000 -999. 1869.    842.5 0.0950  0.72  1.00 10.80 339.0  15.0 281.2  2.0    0  0.00  48. 1004.    2 NAD-SFC NoSubs
11 12  1 335  7  -64.0  0.803 -9.000 -9.000 -999. 1734.    725.1 0.0950  0.72  1.00 10.30 335.0  15.0 281.0  2.0    0  0.00  48. 1004.    2 NAD-SFC NoSubs
11 12  1 335  8  -49.9  0.808 -9.000 -9.000 -999. 1743.    945.8 0.0950  0.72  0.49 10.30 330.0  15.0 281.4  2.0    0  0.00  47. 1004.    2 NAD-SFC NoSubs
11 12  1 335  9   30.3  0.820  0.420  0.005   88. 1780. -1624.2 0.0950  0.72  0.30 10.30 338.0  15.0 283.2  2.0    0  0.00  42. 1004.    2 NAD-SFC NoSubs
11 12  1 335 10   69.3  0.865  0.780  0.005  245. 1925.   -835.6 0.0950  0.72  0.23 10.80 344.0  15.0 285.2  2.0    0  0.00  38. 1004.    2 NAD-SFC NoSubs
11 12  1 335 11   95.6  0.830  1.019  0.005  396. 1820.   -535.5 0.0950  0.72  0.21 10.30 345.0  15.0 286.9  2.0    0  0.00  34. 1004.    2 NAD-SFC NoSubs
11 12  1 335 12  107.6  0.794  1.217  0.005  599. 1702.   -415.3 0.0950  0.72  0.20  9.80 332.0  15.0 288.5  2.0    0  0.00  32. 1003.    2 NAD-SFC NoSubs
11 12  1 335 13  105.0  0.710  1.357  0.005  851. 1449.   -304.1 0.0950  0.72  0.21  8.70 333.0  15.0 290.0  2.0    0  0.00  33. 1001.    2 NAD-SFC NoSubs
11 12  1 335 14   87.6  0.594  1.365  0.005 1038. 1117.   -213.6 0.0950  0.72  0.22  7.20 335.0  15.0 291.2  2.0    0  0.00  36. 1001.    2 NAD-SFC NoSubs
11 12  1 335 15   56.1  0.496  1.211  0.005 1129.  849.   -193.7 0.0800  0.72  0.25  6.20 326.0  15.0 291.4  2.0    0  0.00  42. 1000.    2 NAD-SFC NoSubs
11 12  1 335 16   13.3  0.458  0.753  0.005 1144.  746.   -644.8 0.0950  0.72  0.36  5.70 330.0  15.0 289.8  2.0    0  0.00  49. 1001.    2 NAD-SFC NoSubs
11 12  1 335 17  -48.6  0.472 -9.000 -9.000 -999.  779.    193.8 0.0950  0.72  0.67  6.20 342.0  15.0 287.8  2.0    0  0.00  53. 1001.    2 NAD-SFC NoSubs
11 12  1 335 18  -59.5  0.552 -9.000 -9.000 -999.  982.    252.1 0.0950  0.72  1.00  7.20 339.0  15.0 286.5  2.0    0  0.00  50. 1001.    2 NAD-SFC NoSubs
11 12  1 335 19  -64.0  0.583 -9.000 -9.000 -999. 1066.    276.0 0.0950  0.72  1.00  7.70 352.0  15.0 285.8  2.0    0  0.00  49. 1002.    2 NAD-SFC NoSubs
11 12  1 335 20  -51.2  0.472 -9.000 -9.000 -999.  790.    183.4 0.0950  0.72  1.00  6.20 354.0  15.0 284.9  2.0    0  0.00  51. 1002.    2 NAD-SFC NoSubs
11 12  1 335 21  -10.0  0.145 -9.000 -9.000 -999.  308.     27.0 0.0800  0.72  1.00  2.10 314.0  15.0 284.2  2.0    0  0.00  53. 1003.    2 NAD-SFC NoSubs
11 12  1 335 22  -25.7  0.235 -9.000 -9.000 -999.  274.     45.3 0.0220  0.72  1.00  4.10 219.0  15.0 283.6  2.0    0  0.00  55. 1004.    2 NAD-SFC NoSubs
11 12  1 335 23  -28.6  0.261 -9.000 -9.000 -999.  321.     55.8 0.0200  0.72  1.00  4.60 241.0  15.0 282.8  2.0    0  0.00  56. 1004.    2 NAD-SFC NoSubs
11 12  1 335 24  -28.8  0.261 -9.000 -9.000 -999.  321.     55.6 0.0200  0.72  1.00  4.60 254.0  15.0 281.8  2.0    0  0.00  58. 1005.    2 NAD-SFC NoSubs
11 12  2 336  1  -25.9  0.235 -9.000 -9.000 -999.  274.     44.9 0.0220  0.72  1.00  4.10 226.0  15.0 281.1  2.0    0  0.00  59. 1005.    2 NAD-SFC NoSubs
11 12  2 336  2  -26.0  0.235 -9.000 -9.000 -999.  273.     44.8 0.0220  0.72  1.00  4.10 212.0  15.0 280.5  2.0    0  0.00  59. 1006.    2 NAD-SFC NoSubs
11 12  2 336  3  -26.0  0.235 -9.000 -9.000 -999.  273.     44.7 0.0220  0.72  1.00  4.10 221.0  15.0 280.1  2.0    0  0.00  58. 1006.    2 NAD-SFC NoSubs
11 12  2 336  4  -25.7  0.231 -9.000 -9.000 -999.  267.     43.3 0.0200  0.72  1.00  4.10 244.0  15.0 279.8  2.0    0  0.00  57. 1007.    2 NAD-SFC NoSubs
11 12  2 336  5  -25.7  0.231 -9.000 -9.000 -999.  267.     43.3 0.0200  0.72  1.00  4.10 261.0  15.0 279.5  2.0    0  0.00  58. 1007.    2 NAD-SFC NoSubs
11 12  2 336  6  -29.1  0.261 -9.000 -9.000 -999.  320.     55.1 0.0200  0.72  1.00  4.60 267.0  15.0 279.1  2.0    0  0.00  59. 1007.    2 NAD-SFC NoSubs
11 12  2 336  7  -32.9  0.295 -9.000 -9.000 -999.  385.     70.3 0.0420  0.72  1.00  4.60 285.0  15.0 278.8  2.0    0  0.00  61. 1007.    2 NAD-SFC NoSubs
11 12  2 336  8  -19.8  0.299 -9.000 -9.000 -999.  393.    121.3 0.0800  0.72  0.50  4.10 301.0  15.0 278.5  2.0    0  0.00  62. 1007.    2 NAD-SFC NoSubs
11 12  2 336  9   28.9  0.300  0.398  0.005   78.  394.    -83.7 0.0800  0.72  0.30  3.60 308.0  15.0 280.0  2.0    0  0.00  56. 1007.    2 NAD-SFC NoSubs
11 12  2 336 10   67.6  0.280  0.743  0.005  218.  355.    -29.0 0.0800  0.72  0.23  3.10 301.0  15.0 281.5  2.0    0  0.00  51. 1007.    2 NAD-SFC NoSubs
11 12  2 336 11   93.9  0.225  1.010  0.005  394.  258.    -10.9 0.0420  0.72  0.21  2.60 275.0  15.0 283.4  2.0    0  0.00  46. 1007.    2 NAD-SFC NoSubs
11 12  2 336 12  106.0  0.233  1.198  0.006  582.  269.    -10.7 0.0200  0.72  0.20  3.10 264.0  15.0 285.1  2.0    0  0.00  42. 1006.    2 NAD-SFC NoSubs
11 12  2 336 13  103.2  0.203  1.270  0.008  712.  220.     -7.3 0.0200  0.72  0.21  2.60 268.0  15.0 286.2  2.0    0  0.00  41. 1005.    2 NAD-SFC NoSubs
11 12  2 336 14   85.8  0.191  1.241  0.008  799.  201.     -7.3 0.0420  0.72  0.22  2.10 294.0  15.0 287.1  2.0    0  0.00  40. 1005.    2 NAD-SFC NoSubs
11 12  2 336 15   54.3  0.240  1.088  0.009  849.  282.    -22.8 0.0800  0.72  0.25  2.60 324.0  15.0 287.2  2.0    0  0.00  41. 1004.    2 NAD-SFC NoSubs
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11	12	2	336	16	12.1	0.224	0.663	0.009	859.	255.	-83.4	0.0950	0.72	0.36	2.60	342.0	15.0	286.8	2.0	0	0.00	48.	1004.	2	NAD-SFC	NoSubs
11	12	2	336	17	-23.4	0.229	-9.000	-9.000	-999.	263.	45.9	0.0950	0.72	0.67	3.10	349.0	15.0	285.8	2.0	0	0.00	52.	1004.	2	NAD-SFC	NoSubs
11	12	2	336	18	-23.9	0.228	-9.000	-9.000	-999.	262.	44.7	0.0950	0.72	1.00	3.10	349.0	15.0	284.6	2.0	0	0.00	57.	1005.	2	NAD-SFC	NoSubs
11	12	2	336	19	-16.6	0.189	-9.000	-9.000	-999.	197.	36.4	0.0950	0.72	1.00	2.60	344.0	15.0	283.6	2.0	0	0.00	62.	1005.	2	NAD-SFC	NoSubs
11	12	2	336	20	-5.2	0.105	-9.000	-9.000	-999.	84.	19.9	0.0800	0.72	1.00	1.50	308.0	15.0	282.6	2.0	0	0.00	65.	1006.	2	NAD-SFC	NoSubs
11	12	2	336	21	-10.1	0.145	-9.000	-9.000	-999.	132.	26.9	0.0800	0.72	1.00	2.10	300.0	15.0	281.8	2.0	0	0.00	67.	1006.	2	NAD-SFC	NoSubs
11	12	2	336	22	-4.4	0.095	-9.000	-9.000	-999.	71.	17.3	0.0420	0.72	1.00	1.50	292.0	15.0	281.1	2.0	0	0.00	67.	1006.	2	NAD-SFC	NoSubs
11	12	2	336	23	-2.8	0.085	-9.000	-9.000	-999.	60.	19.5	0.0800	0.72	1.00	1.00	303.0	15.0	280.4	2.0	0	0.00	66.	1007.	2	NAD-SFC	NoSubs
11	12	2	336	24	-1.1	0.069	-9.000	-9.000	-999.	44.	27.7	0.0420	0.72	1.00	0.50	276.0	15.0	279.8	2.0	0	0.00	67.	1007.	2	NAD-SFC	NoSubs
11	12	3	337	1	-2.5	0.079	-9.000	-9.000	-999.	54.	18.1	0.0420	0.72	1.00	1.00	273.0	15.0	278.9	2.0	0	0.00	69.	1007.	2	NAD-SFC	NoSubs
11	12	3	337	2	-4.5	0.095	-9.000	-9.000	-999.	71.	17.3	0.0420	0.72	1.00	1.50	273.0	15.0	278.2	2.0	0	0.00	72.	1008.	2	NAD-SFC	NoSubs
11	12	3	337	3	-4.5	0.095	-9.000	-9.000	-999.	71.	17.3	0.0420	0.72	1.00	1.50	273.0	15.0	277.5	2.0	0	0.00	75.	1008.	2	NAD-SFC	NoSubs
11	12	3	337	4	-8.5	0.128	-9.000	-9.000	-999.	110.	22.3	0.0420	0.72	1.00	2.10	274.0	15.0	277.0	2.0	0	0.00	75.	1008.	2	NAD-SFC	NoSubs
11	12	3	337	5	-7.0	0.113	-9.000	-9.000	-999.	92.	18.6	0.0200	0.72	1.00	2.10	267.0	15.0	276.6	2.0	0	0.00	74.	1009.	2	NAD-SFC	NoSubs
11	12	3	337	6	-7.1	0.113	-9.000	-9.000	-999.	92.	18.6	0.0200	0.72	1.00	2.10	260.0	15.0	276.2	2.0	0	0.00	72.	1010.	2	NAD-SFC	NoSubs
11	12	3	337	7	-7.1	0.113	-9.000	-9.000	-999.	92.	18.6	0.0200	0.72	1.00	2.10	250.0	15.0	275.8	2.0	0	0.00	70.	1010.	2	NAD-SFC	NoSubs
11	12	3	337	8	-5.6	0.115	-9.000	-9.000	-999.	93.	24.1	0.0200	0.72	0.50	2.10	254.0	15.0	275.6	2.0	0	0.00	68.	1011.	2	NAD-SFC	NoSubs
11	12	3	337	9	27.5	0.135	0.433	0.012	106.	119.	-8.0	0.0420	0.72	0.30	1.50	288.0	15.0	276.8	2.0	0	0.00	63.	1011.	2	NAD-SFC	NoSubs
11	12	3	337	10	66.2	0.112	0.731	0.010	213.	90.	-1.9	0.0420	0.72	0.24	1.00	278.0	15.0	278.2	2.0	0	0.00	59.	1012.	2	NAD-SFC	NoSubs
11	12	3	337	11	92.5	0.067	0.936	0.009	320.	41.	-1.0	0.0200	0.72	0.21	0.50	259.0	15.0	280.1	2.0	0	0.00	52.	1012.	2	NAD-SFC	NoSubs
11	12	3	337	12	104.6	0.137	1.066	0.008	418.	122.	-2.2	0.0200	0.72	0.20	1.50	267.0	15.0	281.9	2.0	0	0.00	45.	1011.	2	NAD-SFC	NoSubs
11	12	3	337	13	101.8	0.154	1.132	0.008	514.	145.	-3.2	0.0420	0.72	0.21	1.50	296.0	15.0	282.9	2.0	0	0.00	43.	1011.	2	NAD-SFC	NoSubs
11	12	3	337	14	84.4	0.213	1.109	0.007	583.	236.	-10.3	0.0800	0.72	0.22	2.10	317.0	15.0	283.8	2.0	0	0.00	42.	1011.	2	NAD-SFC	NoSubs
11	12	3	337	15	53.1	0.247	0.971	0.007	622.	295.	-25.6	0.0950	0.72	0.25	2.60	331.0	15.0	284.0	2.0	0	0.00	42.	1011.	2	NAD-SFC	NoSubs
11	12	3	337	16	11.2	0.181	0.580	0.007	630.	187.	-48.1	0.0800	0.72	0.36	2.10	326.0	15.0	283.9	2.0	0	0.00	48.	1011.	2	NAD-SFC	NoSubs
11	12	3	337	17	-2.7	0.084	-9.000	-9.000	-999.	63.	19.4	0.0800	0.72	0.67	1.00	329.0	15.0	283.2	2.0	0	0.00	50.	1012.	2	NAD-SFC	NoSubs
11	12	3	337	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	282.1	2.0	0	0.00	55.	1013.	2	NAD-SFC	NoSubs
11	12	3	337	19	-1.0	0.066	-9.000	-9.000	-999.	40.	26.1	0.0220	0.72	1.00	0.50	180.0	15.0	280.8	2.0	0	0.00	61.	1014.	2	NAD-SFC	NoSubs
11	12	3	337	20	-2.2	0.074	-9.000	-9.000	-999.	49.	16.8	0.0220	0.72	1.00	1.00	184.0	15.0	279.6	2.0	0	0.00	66.	1014.	2	NAD-SFC	NoSubs
11	12	3	337	21	-3.9	0.087	-9.000	-9.000	-999.	62.	15.4	0.0220	0.72	1.00	1.50	188.0	15.0	278.8	2.0	0	0.00	69.	1015.	2	NAD-SFC	NoSubs
11	12	3	337	22	-3.9	0.087	-9.000	-9.000	-999.	62.	15.4	0.0220	0.72	1.00	1.50	203.0	15.0	278.2	2.0	0	0.00	68.	1015.	2	NAD-SFC	NoSubs
11	12	3	337	23	-7.2	0.115	-9.000	-9.000	-999.	94.	19.1	0.0220	0.72	1.00	2.10	222.0	15.0	278.0	2.0	0	0.00	66.	1016.	2	NAD-SFC	NoSubs
11	12	3	337	24	-10.9	0.142	-9.000	-9.000	-999.	128.	23.6	0.0200	0.72	1.00	2.60	245.0	15.0	277.8	2.0	0	0.00	63.	1016.	2	NAD-SFC	NoSubs
11	12	4	338	1	-11.0	0.142	-9.000	-9.000	-999.	128.	23.5	0.0200	0.72	1.00	2.60	259.0	15.0	277.4	2.0	0	0.00	61.	1016.	2	NAD-SFC	NoSubs
11	12	4	338	2	-13.3	0.161	-9.000	-9.000	-999.	155.	28.4	0.0420	0.72	1.00	2.60	279.0	15.0	276.9	2.0	0	0.00	60.	1016.	2	NAD-SFC	NoSubs
11	12	4	338	3	-8.5	0.128	-9.000	-9.000	-999.	110.	22.3	0.0420	0.72	1.00	2.10	288.0	15.0	276.4	2.0	0	0.00	60.	1017.	2	NAD-SFC	NoSubs
11	12	4	338	4	-13.3	0.161	-9.000	-9.000	-999.	155.	28.3	0.0420	0.72	1.00	2.60	286.0	15.0	275.9	2.0	0	0.00	60.	1017.	2	NAD-SFC	NoSubs
11	12	4	338	5	-19.2	0.194	-9.000	-9.000	-999.	206.	34.7	0.0420	0.72	1.00	3.10	279.0	15.0	275.2	2.0	0	0.00	61.	1017.	2	NAD-SFC	NoSubs
11	12	4	338	6	-19.2	0.194	-9.000	-9.000	-999.	206.	34.7	0.0420	0.72	1.00	3.10	278.0	15.0	274.6	2.0	0	0.00	63.	1017.	2	NAD-SFC	NoSubs
11	12	4	338	7	-19.2	0.194	-9.000	-9.000	-999.	206.	34.6	0.0420	0.72	1.00	3.10	270.0	15.0	274.0	2.0	0	0.00	65.	1017.	2	NAD-SFC	NoSubs
11	12	4	338	8	-12.9	0.174	-9.000	-9.000	-999.	175.	37.2	0.0200	0.72	0.51	3.10	257.0	15.0	273.8	2.0	0	0.00	64.	1017.	2	NAD-SFC	NoSubs
11	12	4	338	9	26.6	0.228	0.404	0.008	90.	261.	-40.2	0.0800	0.72	0.31	2.60	304.0	15.0	275.4	2.0	0	0.00	55.	1017.	2	NAD-SFC	NoSubs
11	12	4	338	10	65.2	0.125	0.686	0.009	180.	111.	-2.7	0.0800	0.72	0.24	1.00	301.0	15.0	277.0	2.0	0	0.00	51.	1017.	2	NAD-SFC	NoSubs
11	12	4	338	11	91.5	-9.000	-9.000	-9.000	302.	-999.	-99999.0	0.0471	0.72	0.21	0.00	0.0	15.0	278.8	2.0	0	0.00	47.	1016.	2	NAD-SFC	NoSubs
11	12	4	338	12	103.7	-9.000	-9.000	-9.000	425.	-999.	-99999.0	0.0471	0.72	0.20	0.00	0.0	15.0	280.4	2.0	0	0.00	43.	1015.	2	NAD-SFC	NoSubs
11	12	4	338	13	101.0	-9.000	-9.000	-9.000	555.	-999.	-99999.0	0.0471	0.72	0.21	0.00	0.0	15.0	281.4	2.0	0	0.00	42.	1014.	2	NAD-SFC	NoSubs
11	12	4	338	14	83.7	0.066	1.142	0.007	643.	40.	-1.0	0.0200	0.72	0.22	0.50	252.0	15.0	282.1	2.0	0	0.00	41.	1014.	2	NAD-SFC	NoSubs
11	12	4	338	15	52.5	0.062	0.998	0.007	685.	37.	-1.0	0.0200	0.72	0.26	0.50	257.0	15.0	282.5	2.0	0	0.00	41.	1013.	2	NAD-SFC	NoSubs
11	12	4	338	16	10.6	-9.000	-9.000	-9.000	693.	-999.	-99999.0	0.0471	0.72	0.36	0.00	0.0	15.0	282.5	2.0	0	0.00	43.	1012.	2	NAD-SFC	NoSubs
11	12	4	338	17	-1.0	0.066	-9.000	-9.000	-999.	41.	26.5	0.0310	0.72	0.67	0.50	94.0	15.0	281.8	2.0	0	0.00	47.	1012.	2	NAD-SFC	NoSubs
11	12	4	338	18	-2.3	0.077	-9.000	-9.000	-999.	51.	17.4	0.0310	0.72	1.00	1.00	97.0	15.0	280.8	2.0	0	0.00	53.	1012.	2	NAD-SFC	NoSubs
11	12	4	338	19	-2.3	0.076	-9.000	-9.000	-999.	50.	17.2	0.0280	0.72	1.00	1.00	122.0	15.0	279.6	2.0	0	0.00	58.	1012.	2	NAD-SFC	NoSubs
11	12	4	338	20	-2.3	0.075	-9.000	-9.000	-999.	49.	17.0	0.0240	0.72	1.00	1.00	150.0	15.0	278.5	2.0	0	0.00	63.	1013.	2	NAD-SFC	NoSubs
11	12	4	338	21	-4.1	0.090	-9.000	-9.000	-999.	65.	16.1	0.0280	0.72	1.00	1.50	138.0	15.0	277.6	2.0	0	0.00	67.	1013.	2	NAD-SFC	NoSubs
11	12	4	338	22	-4.2	0.091	-9.000	-9.000	-999.	66.	16.3	0.0310	0.72	1.00	1.50	119.0	15.0	277.0	2.0	0	0.00	69.	1013.	2	NAD-SFC	NoSubs
11	12	4	338	23	-4.2	0.091	-9.000	-9.000	-999.	66.	16.3	0.0310	0.72	1.00	1.50	107.0	15.0	276.5	2.0	0	0.00	69.	1013.	2	NAD-SFC	NoSubs
11	12	4	338	24	-4.2	0.091	-9.000	-9.000	-999.	66.	16.3	0.0310	0.72	1.00	1.50	108.0	15.0	276.0	2.0	0	0.00	70.	1013.	2	NAD-SFC	NoSubs
11	12	5	339	1	-1.0	0.068	-9.000	-9.000	-999.	43.	27.1	0.0310	0.72	1.00	0.50	98.0	15.0	275.5	2.0	0	0.00	71.	1013.	2	NAD-SFC	NoSubs
11	12	5	339	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	275.0	2.0	0	0.00	72.	1013.	2	NAD-SFC	NoSubs
11	12	5	339	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	274.5	2.0	0	0.00	74.	1014.	2	NAD-SFC	NoSubs
11	12	5	339	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	274.0	2.0	0	0.00	77.	1014.	2	NAD-SFC	NoSubs
11	12	5	339	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	273.6	2.0	0	0.00	78.	1014.	2	NAD-SFC	NoSubs
11	12	5	339	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	273.4	2.0	0	0.00	78.	1015.	2	NAD-SFC	NoSubs
11	12	5	339	7	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	273.2	2.0	0	0.00	77.	1015.	2	NAD-SFC	NoSubs
11	12	5	339	8	-0.9	0.063	-9.000	-9.000	-999.	38.	25.7	0.0800	0.72	0.51	0.50	305.0	15.0	273.2	2.0	0	0.00	76.	1016.	2	NAD-SFC	NoSubs
11	12	5	339	9	25.7	0.072	0.355	0.012	63.	46.	-1.3	0.0800	0.72	0.31	0.50	302.0	15.0	275.0	2.0	0	0.00	66.	1016.	2	NAD-SFC	NoSubs
11	12	5	339	10	64.6	0.146	0.682	0.009	177.	134.	-4.4	0.0420	0.72	0.24	1.50	297.0	15.0	278.2	2.0	0	0.00	52.	1016.	2	NAD-SFC	NoSubs
11	12	5	339	11	91.1	0.130	0.937	0.009	327.	113.	-2.2	0.0800	0.72	0.21	1.00	303.0	15.0	280.4	2.0	0	0.00	46.	1016.	2	NAD-SFC	NoSubs
11	12	5	339	12	103.4	0.118	1.085	0.008	448.	97.	-1.4	0.0420	0.72	0.20	1.00	292.0	15.0	282.2	2.0	0	0.00	39.	1016.	2	NAD-SFC	NoSubs
11	12	5	339	13	100.8	0.117	1.148	0.008	543.	97.	-1.5	0.0420	0.72	0.21	1.00	298.0	15.0	283.2	2.0	0	0.00	37.	1015.	2	NAD-SFC	NoSubs
11	12	5	339	14	83.7	0.133	1.122	0.007	611.	116.	-2.5	0.0950	0.72	0.22	1.00	330.0	15.0	284.1	2.0	0	0.00	36.	1015.	2	NAD-SFC	NoSubs
11	12	5	339	15	52.6	0.165	0.981	0.007	650.	161.	-7.7	0.0950	0.72	0.26	1.50	354.0	15.0	284.4	2.0	0	0.00	36.	1015.	2	NAD-SFC	NoSubs
11	12	5	339	16	10.8	0.187	0.582	0.007	657.	194.	-54.4	0.0960	0.72	0.36	2.10	16.0	15.0	284.2	2.0	0	0.00	40.	1015.	2	NAD-SFC	NoSubs
11	12	5	339	17	-14.6	0.175	-9.000	-9.000	-999.	176.	33.2	0.0650	0.72	0.67	2.60	48.0	15.0	283.2	2.0	0	0.00	44.	1015.	2	NAD-SFC	NoSubs
11	12	5	339	18	-8.3	0.127	-9.000	-9.000	-999.	109.	22.2	0.0400	0.72	1.00	2.10	77.0	15.0	282.0	2.0	0	0.00	49.	1016.	2	NAD-SFC	NoSubs
11	12	5	339	19	-4.1	0.090	-9.000	-9.000	-999.	65.	16.1	0.0280	0.72	1.00	1.50	145.0	15.0	280.8	2.0	0	0.00	54.	1016.	2	NAD-SFC	NoSubs
11	12	5	339	20	-7.2	0.115	-9.000	-9.000	-999.	94.	19.2	0.0220	0.72	1.00	2.10	191.0	15.0	279.9	2.0	0	0.00	59.	1017.	2	NAD-SFC	NoSubs

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11 12  5 339 21   -3.9  0.087 -9.000 -9.000 -999.   62.     15.4  0.0220  0.72  1.00  1.50  225.0  15.0  279.4  2.0   0  0.00   56.  1017.   2 NAD-SFC NoSubs
11 12  5 339 22   -4.0  0.088 -9.000 -9.000 -999.   63.     15.6  0.0240  0.72  1.00  1.50  156.0  15.0  278.5  2.0   0  0.00   53.  1017.   2 NAD-SFC NoSubs
11 12  5 339 23   -7.9  0.122 -9.000 -9.000 -999.  102.     20.7  0.0310  0.72  1.00  2.10  116.0  15.0  277.6  2.0   0  0.00   55.  1018.   2 NAD-SFC NoSubs
11 12  5 339 24  -17.7  0.184 -9.000 -9.000 -999.  190.     32.2  0.0310  0.72  1.00  3.10  100.0  15.0  276.9  2.0   0  0.00   58.  1018.   2 NAD-SFC NoSubs
11 12  6 340  1  -12.3  0.152 -9.000 -9.000 -999.  143.     26.2  0.0310  0.72  1.00  2.60   90.0  15.0  276.4  2.0   0  0.00   60.  1018.   2 NAD-SFC NoSubs
11 12  6 340  2  -13.1  0.159 -9.000 -9.000 -999.  153.     27.9  0.0400  0.72  1.00  2.60   74.0  15.0  276.0  2.0   0  0.00   62.  1019.   2 NAD-SFC NoSubs
11 12  6 340  3  -15.1  0.174 -9.000 -9.000 -999.  175.     31.9  0.0650  0.72  1.00  2.60   48.0  15.0  275.5  2.0   0  0.00   65.  1019.   2 NAD-SFC NoSubs
11 12  6 340  4  -24.7  0.229 -9.000 -9.000 -999.  262.     44.0  0.0960  0.72  1.00  3.10   28.0  15.0  275.1  2.0   0  0.00   69.  1020.   2 NAD-SFC NoSubs
11 12  6 340  5  -17.1  0.189 -9.000 -9.000 -999.  198.     35.9  0.0960  0.72  1.00  2.60   14.0  15.0  274.8  2.0   0  0.00   71.  1020.   2 NAD-SFC NoSubs
11 12  6 340  6  -11.0  0.150 -9.000 -9.000 -999.  139.     27.9  0.0950  0.72  1.00  2.10  358.0  15.0  274.2  2.0   0  0.00   73.  1021.   2 NAD-SFC NoSubs
11 12  6 340  7   -3.1  0.088 -9.000 -9.000 -999.   63.     20.1  0.0960  0.72  1.00  1.00    4.0  15.0  273.9  2.0   0  0.00   74.  1021.   2 NAD-SFC NoSubs
11 12  6 340  8   -0.9  0.064 -9.000 -9.000 -999.   38.     26.0  0.0800  0.72  0.52  0.50  316.0  15.0  273.6  2.0   0  0.00   75.  1022.   2 NAD-SFC NoSubs
11 12  6 340  9   24.9  0.057  0.370  0.013   74.   33.     -1.0  0.0220  0.72  0.31  0.50  204.0  15.0  274.8  2.0   0  0.00   69.  1022.   2 NAD-SFC NoSubs
11 12  6 340 10   63.8  0.064  0.668  0.011  170.   39.     -1.0  0.0220  0.72  0.24  0.50  196.0  15.0  277.8  2.0   0  0.00   55.  1022.   2 NAD-SFC NoSubs
11 12  6 340 11   90.3 -9.000 -9.000 -9.000  283. -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0  279.6  2.0   0  0.00   49.  1021.   2 NAD-SFC NoSubs
11 12  6 340 12  102.6 -9.000 -9.000 -9.000  384. -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0  281.4  2.0   0  0.00   41.  1020.   2 NAD-SFC NoSubs
11 12  6 340 13  100.2 -9.000 -9.000 -9.000  485. -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0  282.5  2.0   0  0.00   38.  1019.   2 NAD-SFC NoSubs
11 12  6 340 14   83.1  0.087  1.084  0.006  557.   61.     -1.0  0.0950  0.72  0.22  0.50  343.0  15.0  283.2  2.0   0  0.00   37.  1018.   2 NAD-SFC NoSubs
11 12  6 340 15   52.1  0.165  0.950  0.006  597.  161.     -7.8  0.0950  0.72  0.26  1.50  348.0  15.0  283.4  2.0   0  0.00   38.  1018.   2 NAD-SFC NoSubs
11 12  6 340 16   10.7  0.143  0.564  0.006  607.  130.    -24.9  0.0960  0.72  0.36  1.50    8.0  15.0  284.2  2.0   0  0.00   32.  1017.   2 NAD-SFC NoSubs
11 12  6 340 17   -4.9  0.101 -9.000 -9.000 -999.   77.     19.2  0.0650  0.72  0.67  1.50   38.0  15.0  283.2  2.0   0  0.00   36.  1017.   2 NAD-SFC NoSubs
11 12  6 340 18   -2.5  0.079 -9.000 -9.000 -999.   53.     17.9  0.0400  0.72  1.00  1.00   61.0  15.0  282.1  2.0   0  0.00   41.  1018.   2 NAD-SFC NoSubs
11 12  6 340 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  280.8  2.0   0  0.00   47.  1018.   2 NAD-SFC NoSubs
11 12  6 340 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  279.8  2.0   0  0.00   52.  1018.   2 NAD-SFC NoSubs
11 12  6 340 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  278.8  2.0   0  0.00   57.  1018.   2 NAD-SFC NoSubs
11 12  6 340 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  277.9  2.0   0  0.00   60.  1019.   2 NAD-SFC NoSubs
11 12  6 340 23   -1.1  0.069 -9.000 -9.000 -999.   44.     27.7  0.0400  0.72  1.00  0.50   72.0  15.0  277.2  2.0   0  0.00   63.  1019.   2 NAD-SFC NoSubs
11 12  6 340 24   -1.2  0.073 -9.000 -9.000 -999.   47.     28.9  0.0650  0.72  1.00  0.50   56.0  15.0  276.8  2.0   0  0.00   64.  1018.   2 NAD-SFC NoSubs
11 12  7 341  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  276.2  2.0   0  0.00   65.  1018.   2 NAD-SFC NoSubs
11 12  7 341  2   -1.2  0.073 -9.000 -9.000 -999.   47.     29.0  0.0650  0.72  1.00  0.50   30.0  15.0  275.8  2.0   0  0.00   66.  1018.   2 NAD-SFC NoSubs
11 12  7 341  3   -3.1  0.088 -9.000 -9.000 -999.   62.     20.1  0.0960  0.72  1.00  1.00   20.0  15.0  275.2  2.0   0  0.00   68.  1018.   2 NAD-SFC NoSubs
11 12  7 341  4   -3.1  0.088 -9.000 -9.000 -999.   62.     20.1  0.0960  0.72  1.00  1.00    6.0  15.0  274.9  2.0   0  0.00   69.  1018.   2 NAD-SFC NoSubs
11 12  7 341  5   -3.0  0.088 -9.000 -9.000 -999.   62.     20.1  0.0950  0.72  1.00  1.00  344.0  15.0  274.8  2.0   0  0.00   70.  1018.   2 NAD-SFC NoSubs
11 12  7 341  6   -1.3  0.075 -9.000 -9.000 -999.   49.     29.6  0.0800  0.72  1.00  0.50  310.0  15.0  274.2  2.0   0  0.00   70.  1018.   2 NAD-SFC NoSubs
11 12  7 341  7   -1.0  0.066 -9.000 -9.000 -999.   41.     26.4  0.0220  0.72  1.00  0.50  225.0  15.0  273.9  2.0   0  0.00   71.  1017.   2 NAD-SFC NoSubs
11 12  7 341  8   -0.7  0.057 -9.000 -9.000 -999.   33.     23.2  0.0220  0.72  0.52  0.50  210.0  15.0  273.6  2.0   0  0.00   71.  1017.   2 NAD-SFC NoSubs
11 12  7 341  9   24.2 -9.000 -9.000 -9.000   59. -999. -99999.0  0.0471  0.72  0.31  0.00    0.0  15.0  275.0  2.0   0  0.00   67.  1017.   2 NAD-SFC NoSubs
11 12  7 341 10   63.1  0.072  0.664  0.012  167.   46.     -1.0  0.0420  0.72  0.24  0.50  287.0  15.0  278.4  2.0   0  0.00   50.  1016.   2 NAD-SFC NoSubs
11 12  7 341 11   89.7  0.085  0.893  0.010  288.   59.     -1.0  0.0800  0.72  0.21  0.50  324.0  15.0  280.2  2.0   0  0.00   47.  1016.   2 NAD-SFC NoSubs
11 12  7 341 12  102.2  0.086  1.027  0.009  384.   61.     -1.0  0.0800  0.72  0.21  0.50  326.0  15.0  281.9  2.0   0  0.00   43.  1015.   2 NAD-SFC NoSubs
11 12  7 341 13   99.9  0.171  1.091  0.008  470.  170.     -4.6  0.0800  0.72  0.21  1.50  329.0  15.0  283.2  2.0   0  0.00   38.  1014.   2 NAD-SFC NoSubs
11 12  7 341 14   82.9  0.173  1.068  0.007  532.  173.     -5.7  0.0950  0.72  0.22  1.50  344.0  15.0  283.9  2.0   0  0.00   38.  1013.   2 NAD-SFC NoSubs
11 12  7 341 15   52.0  0.210  0.934  0.007  566.  231.    -16.0  0.0950  0.72  0.26  2.10  354.0  15.0  284.1  2.0   0  0.00   39.  1013.   2 NAD-SFC NoSubs
11 12  7 341 16   10.5 -9.000 -9.000 -9.000  573. -999. -99999.0  0.0471  0.72  0.36  0.00    0.0  15.0  283.9  2.0   0  0.00   44.  1012.   2 NAD-SFC NoSubs
11 12  7 341 17   -2.9  0.086 -9.000 -9.000 -999.   60.     19.9  0.0960  0.72  0.67  1.00   13.0  15.0  283.1  2.0   0  0.00   47.  1012.   2 NAD-SFC NoSubs
11 12  7 341 18   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0420  0.72  1.00  0.50  291.0  15.0  281.9  2.0   0  0.00   52.  1012.   2 NAD-SFC NoSubs
11 12  7 341 19   -1.0  0.065 -9.000 -9.000 -999.   40.     25.9  0.0200  0.72  1.00  0.50  248.0  15.0  280.8  2.0   0  0.00   58.  1012.   2 NAD-SFC NoSubs
11 12  7 341 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  279.6  2.0   0  0.00   63.  1012.   2 NAD-SFC NoSubs
11 12  7 341 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  278.6  2.0   0  0.00   68.  1012.   2 NAD-SFC NoSubs
11 12  7 341 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  277.8  2.0   0  0.00   72.  1012.   2 NAD-SFC NoSubs
11 12  7 341 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  277.0  2.0   0  0.00   76.  1012.   2 NAD-SFC NoSubs
11 12  7 341 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  276.4  2.0   0  0.00   78.  1012.   2 NAD-SFC NoSubs
11 12  8 342  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  275.8  2.0   0  0.00   81.  1012.   2 NAD-SFC NoSubs
11 12  8 342  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  275.2  2.0   0  0.00   83.  1012.   2 NAD-SFC NoSubs
11 12  8 342  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  275.0  2.0   0  0.00   83.  1012.   2 NAD-SFC NoSubs
11 12  8 342  4   -1.3  0.076 -9.000 -9.000 -999.   50.     30.0  0.0950  0.72  1.00  0.50  339.0  15.0  274.8  2.0   0  0.00   83.  1012.   2 NAD-SFC NoSubs
11 12  8 342  5   -2.9  0.086 -9.000 -9.000 -999.   60.     19.6  0.0800  0.72  1.00  1.00  311.0  15.0  274.5  2.0   0  0.00   83.  1013.   2 NAD-SFC NoSubs
11 12  8 342  6   -5.4  0.105 -9.000 -9.000 -999.   82.     19.7  0.0800  0.72  1.00  1.50  303.0  15.0  274.4  2.0   0  0.00   82.  1013.   2 NAD-SFC NoSubs
11 12  8 342  7   -4.5  0.095 -9.000 -9.000 -999.   71.     17.3  0.0420  0.72  1.00  1.50  295.0  15.0  274.2  2.0   0  0.00   82.  1013.   2 NAD-SFC NoSubs
11 12  8 342  8   -7.3  0.129 -9.000 -9.000 -999.  111.     26.7  0.0420  0.72  0.53  2.10  281.0  15.0  274.0  2.0   0  0.00   82.  1014.   2 NAD-SFC NoSubs
11 12  8 342  9   23.5  0.148  0.337  0.011   59.  137.    -12.5  0.0800  0.72  0.31  1.50  302.0  15.0  275.6  2.0   0  0.00   75.  1014.   2 NAD-SFC NoSubs
11 12  8 342 10   62.3  0.124  0.656  0.011  163.  105.     -2.8  0.0800  0.72  0.24  1.00  301.0  15.0  277.6  2.0   0  0.00   69.  1014.   2 NAD-SFC NoSubs
11 12  8 342 11   89.0  0.075  0.932  0.011  329.   50.     -1.0  0.0420  0.72  0.21  0.50  299.0  15.0  279.5  2.0   0  0.00   64.  1014.   2 NAD-SFC NoSubs
11 12  8 342 12  101.5  0.076  1.069  0.011  435.   51.     -1.0  0.0420  0.72  0.21  0.50  296.0  15.0  281.2  2.0   0  0.00   56.  1013.   2 NAD-SFC NoSubs
11 12  8 342 13   99.3  0.086  1.112  0.010  500.   61.     -1.0  0.0800  0.72  0.21  0.50  306.0  15.0  282.6  2.0   0  0.00   51.  1012.   2 NAD-SFC NoSubs
11 12  8 342 14   82.4  0.133  1.078  0.009  548.  116.     -2.6  0.0950  0.72  0.22  1.00  335.0  15.0  283.2  2.0   0  0.00   49.  1011.   2 NAD-SFC NoSubs
11 12  8 342 15   51.7  0.165  0.939  0.009  577.  161.     -7.8  0.0950  0.72  0.26  1.50  346.0  15.0  283.8  2.0   0  0.00   48.  1011.   2 NAD-SFC NoSubs
11 12  8 342 16   10.4 -9.000 -9.000 -9.000  582. -999. -99999.0  0.0471  0.72  0.36  0.00    0.0  15.0  283.6  2.0   0  0.00   51.  1011.   2 NAD-SFC NoSubs
11 12  8 342 17   -2.9  0.086 -9.000 -9.000 -999.   60.     19.9  0.0960  0.72  0.67  1.00   16.0  15.0  282.8  2.0   0  0.00   55.  1011.   2 NAD-SFC NoSubs
11 12  8 342 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  281.6  2.0   0  0.00   60.  1011.   2 NAD-SFC NoSubs
11 12  8 342 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  280.4  2.0   0  0.00   67.  1011.   2 NAD-SFC NoSubs
11 12  8 342 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  279.2  2.0   0  0.00   72.  1011.   2 NAD-SFC NoSubs
11 12  8 342 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  278.5  2.0   0  0.00   76.  1011.   2 NAD-SFC NoSubs
11 12  8 342 22   -1.2  0.073 -9.000 -9.000 -999.   47.     28.9  0.0650  0.72  1.00  0.50   50.0  15.0  277.8  2.0   0  0.00   80.  1011.   2 NAD-SFC NoSubs
11 12  8 342 23   -1.2  0.073 -9.000 -9.000 -999.   47.     28.9  0.0650  0.72  1.00  0.50   38.0  15.0  277.1  2.0   0  0.00   82.  1012.   2 NAD-SFC NoSubs
11 12  8 342 24   -1.2  0.073 -9.000 -9.000 -999.   47.     28.9  0.0650  0.72  1.00  0.50   43.0  15.0  276.8  2.0   0  0.00   84.  1012.   2 NAD-SFC NoSubs
11 12  9 343  1   -1.2  0.073 -9.000 -9.000 -999.   47.     29.0  0.0650  0.72  1.00  0.50   43.0  15.0  276.2  2.0   0  0.00   85.  1012.   2 NAD-SFC NoSubs
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11 12  9 343  2   -1.2  0.073 -9.000 -9.000 -999.   47.     29.0  0.0650  0.72  1.00  0.50   52.0  15.0 275.9  2.0   0  0.00   86. 1013.    2 NAD-SFC NoSubs
11 12  9 343  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 275.6  2.0   0  0.00   87. 1013.    2 NAD-SFC NoSubs
11 12  9 343  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 275.2  2.0   0  0.00   88. 1013.    2 NAD-SFC NoSubs
11 12  9 343  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 274.8  2.0   0  0.00   88. 1014.    2 NAD-SFC NoSubs
11 12  9 343  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 274.5  2.0   0  0.00   88. 1014.    2 NAD-SFC NoSubs
11 12  9 343  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 274.2  2.0   0  0.00   88. 1014.    2 NAD-SFC NoSubs
11 12  9 343  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.53  0.00    0.0  15.0 274.1  2.0   0  0.00   88. 1015.    2 NAD-SFC NoSubs
11 12  9 343  9   22.8 -9.000 -9.000 -9.000   60. -999. -99999.0  0.0471  0.72  0.32  0.00    0.0  15.0 275.5  2.0   0  0.00   82. 1015.    2 NAD-SFC NoSubs
11 12  9 343 10   61.9  0.072  0.643  0.014  156.   46.     -1.0  0.0420  0.72  0.24  0.50  282.0  15.0 279.2  2.0   0  0.00   60. 1015.    2 NAD-SFC NoSubs
11 12  9 343 11   88.7  0.085  0.884  0.012  282.   59.     -1.0  0.0800  0.72  0.21  0.50  300.0  15.0 281.2  2.0   0  0.00   54. 1015.    2 NAD-SFC NoSubs
11 12  9 343 12  101.4  0.118  1.034  0.012  394.   97.     -1.4  0.0420  0.72  0.21  1.00  299.0  15.0 283.1  2.0   0  0.00   49. 1014.    2 NAD-SFC NoSubs
11 12  9 343 13   99.3  0.171  1.079  0.011  458.  170.     -4.6  0.0800  0.72  0.21  1.50  321.0  15.0 284.4  2.0   0  0.00   45. 1014.    2 NAD-SFC NoSubs
11 12  9 343 14   82.6  0.173  1.049  0.010  505.  173.     -5.7  0.0950  0.72  0.22  1.50  335.0  15.0 285.0  2.0   0  0.00   44. 1013.    2 NAD-SFC NoSubs
11 12  9 343 15   51.9  0.165  0.915  0.010  533.  161.     -7.8  0.0950  0.72  0.26  1.50  355.0  15.0 285.2  2.0   0  0.00   44. 1013.    2 NAD-SFC NoSubs
11 12  9 343 16   10.7  0.106  0.542  0.010  538.   84.    -10.2  0.0960  0.72  0.36  1.00   23.0  15.0 285.2  2.0   0  0.00   48. 1013.    2 NAD-SFC NoSubs
11 12  9 343 17   -1.0  0.068 -9.000 -9.000 -999.   42.     27.1  0.0400  0.72  0.67  0.50   72.0  15.0 284.2  2.0   0  0.00   52. 1013.    2 NAD-SFC NoSubs
11 12  9 343 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 282.9  2.0   0  0.00   57. 1013.    2 NAD-SFC NoSubs
11 12  9 343 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 281.6  2.0   0  0.00   64. 1013.    2 NAD-SFC NoSubs
11 12  9 343 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 280.4  2.0   0  0.00   70. 1014.    2 NAD-SFC NoSubs
11 12  9 343 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 279.5  2.0   0  0.00   75. 1014.    2 NAD-SFC NoSubs
11 12  9 343 22   -1.2  0.073 -9.000 -9.000 -999.   47.     28.9  0.0650  0.72  1.00  0.50   55.0  15.0 278.8  2.0   0  0.00   78. 1014.    2 NAD-SFC NoSubs
11 12  9 343 23   -1.2  0.073 -9.000 -9.000 -999.   47.     28.9  0.0650  0.72  1.00  0.50   37.0  15.0 278.2  2.0   0  0.00   80. 1014.    2 NAD-SFC NoSubs
11 12  9 343 24   -3.0  0.087 -9.000 -9.000 -999.   62.     20.0  0.0960  0.72  1.00  1.00   17.0  15.0 277.8  2.0   0  0.00   81. 1014.    2 NAD-SFC NoSubs
11 12 10 344  1   -1.3  0.076 -9.000 -9.000 -999.   50.     29.9  0.0960  0.72  1.00  0.50   24.0  15.0 277.4  2.0   0  0.00   81. 1014.    2 NAD-SFC NoSubs
11 12 10 344  2   -1.3  0.076 -9.000 -9.000 -999.   50.     29.9  0.0960  0.72  1.00  0.50   15.0  15.0 277.1  2.0   0  0.00   82. 1014.    2 NAD-SFC NoSubs
11 12 10 344  3   -1.3  0.076 -9.000 -9.000 -999.   50.     29.9  0.0950  0.72  1.00  0.50  338.0  15.0 276.8  2.0   0  0.00   83. 1013.    2 NAD-SFC NoSubs
11 12 10 344  4   -1.3  0.076 -9.000 -9.000 -999.   50.     29.9  0.0950  0.72  1.00  0.50  347.0  15.0 276.4  2.0   0  0.00   83. 1013.    2 NAD-SFC NoSubs
11 12 10 344  5   -1.3  0.076 -9.000 -9.000 -999.   50.     30.0  0.0950  0.72  1.00  0.50  355.0  15.0 276.0  2.0   0  0.00   84. 1013.    2 NAD-SFC NoSubs
11 12 10 344  6   -1.3  0.076 -9.000 -9.000 -999.   50.     30.0  0.0950  0.72  1.00  0.50  343.0  15.0 275.8  2.0   0  0.00   85. 1013.    2 NAD-SFC NoSubs
11 12 10 344  7   -1.3  0.076 -9.000 -9.000 -999.   50.     30.0  0.0950  0.72  1.00  0.50  332.0  15.0 275.4  2.0   0  0.00   86. 1013.    2 NAD-SFC NoSubs
11 12 10 344  8   10.5 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.54  0.00    0.0  15.0 275.1  2.0   0  0.00   86. 1013.    2 NAD-SFC NoSubs
11 12 10 344  9   22.2 -9.000 -9.000 -9.000   72. -999. -99999.0  0.0471  0.72  0.32  0.00    0.0  15.0 276.2  2.0   0  0.00   80. 1013.    2 NAD-SFC NoSubs
11 12 10 344 10   61.3  0.111  0.644  0.013  157.   88.     -2.0  0.0420  0.72  0.24  1.00  286.0  15.0 279.8  2.0   0  0.00   60. 1013.    2 NAD-SFC NoSubs
11 12 10 344 11   88.2  0.130  0.867  0.011  267.  112.     -2.2  0.0800  0.72  0.22  1.00  303.0  15.0 281.8  2.0   0  0.00   55. 1013.    2 NAD-SFC NoSubs
11 12 10 344 12  100.9  0.086  1.012  0.009  370.   61.     -1.0  0.0800  0.72  0.21  0.50  316.0  15.0 283.2  2.0   0  0.00   50. 1012.    2 NAD-SFC NoSubs
11 12 10 344 13   99.1  0.086  1.076  0.008  453.   61.     -1.0  0.0800  0.72  0.21  0.50  306.0  15.0 284.9  2.0   0  0.00   45. 1011.    2 NAD-SFC NoSubs
11 12 10 344 14   82.5  0.129  1.054  0.007  512.  111.     -2.3  0.0800  0.72  0.22  1.00  320.0  15.0 285.8  2.0   0  0.00   40. 1011.    2 NAD-SFC NoSubs
11 12 10 344 15   52.0  0.165  0.924  0.007  546.  161.     -7.8  0.0950  0.72  0.26  1.50  335.0  15.0 286.1  2.0   0  0.00   39. 1010.    2 NAD-SFC NoSubs
11 12 10 344 16   10.8 -9.000 -9.000 -9.000  552. -999. -99999.0  0.0471  0.72  0.36  0.00    0.0  15.0 285.8  2.0   0  0.00   43. 1010.    2 NAD-SFC NoSubs
11 12 10 344 17   -5.4  0.108 -9.000 -9.000 -999.   85.     21.1  0.0960  0.72  0.67  1.50   28.0  15.0 284.8  2.0   0  0.00   47. 1009.    2 NAD-SFC NoSubs
11 12 10 344 18   -1.1  0.069 -9.000 -9.000 -999.   43.     27.4  0.0400  0.72  1.00  0.50   71.0  15.0 283.5  2.0   0  0.00   52. 1010.    2 NAD-SFC NoSubs
11 12 10 344 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 282.1  2.0   0  0.00   59. 1009.    2 NAD-SFC NoSubs
11 12 10 344 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 280.9  2.0   0  0.00   65. 1009.    2 NAD-SFC NoSubs
11 12 10 344 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 279.9  2.0   0  0.00   70. 1009.    2 NAD-SFC NoSubs
11 12 10 344 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 279.1  2.0   0  0.00   74. 1009.    2 NAD-SFC NoSubs
11 12 10 344 23   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0400  0.72  1.00  0.50   64.0  15.0 278.2  2.0   0  0.00   77. 1009.    2 NAD-SFC NoSubs
11 12 10 344 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 277.8  2.0   0  0.00   79. 1009.    2 NAD-SFC NoSubs
11 12 11 345  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 277.1  2.0   0  0.00   80. 1008.    2 NAD-SFC NoSubs
11 12 11 345  2   -1.1  0.069 -9.000 -9.000 -999.   44.     27.7  0.0400  0.72  1.00  0.50   88.0  15.0 276.8  2.0   0  0.00   81. 1008.    2 NAD-SFC NoSubs
11 12 11 345  3   -1.0  0.068 -9.000 -9.000 -999.   43.     27.1  0.0310  0.72  1.00  0.50   90.0  15.0 276.2  2.0   0  0.00   82. 1007.    2 NAD-SFC NoSubs
11 12 11 345  4   -1.0  0.068 -9.000 -9.000 -999.   43.     27.1  0.0310  0.72  1.00  0.50   92.0  15.0 275.9  2.0   0  0.00   83. 1007.    2 NAD-SFC NoSubs
11 12 11 345  5   -1.0  0.068 -9.000 -9.000 -999.   43.     27.1  0.0310  0.72  1.00  0.50   95.0  15.0 275.6  2.0   0  0.00   83. 1007.    2 NAD-SFC NoSubs
11 12 11 345  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 275.2  2.0   0  0.00   84. 1007.    2 NAD-SFC NoSubs
11 12 11 345  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0 275.0  2.0   0  0.00   84. 1007.    2 NAD-SFC NoSubs
11 12 11 345  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.54  0.00    0.0  15.0 274.8  2.0   0  0.00   85. 1007.    2 NAD-SFC NoSubs
11 12 11 345  9   21.6 -9.000 -9.000 -9.000   57. -999. -99999.0  0.0471  0.72  0.32  0.00    0.0  15.0 276.1  2.0   0  0.00   80. 1007.    2 NAD-SFC NoSubs
11 12 11 345 10   60.6 -9.000 -9.000 -9.000  147. -999. -99999.0  0.0471  0.72  0.24  0.00    0.0  15.0 279.2  2.0   0  0.00   65. 1007.    2 NAD-SFC NoSubs
11 12 11 345 11   87.6 -9.000 -9.000 -9.000  262. -999. -99999.0  0.0471  0.72  0.22  0.00    0.0  15.0 281.2  2.0   0  0.00   60. 1006.    2 NAD-SFC NoSubs
11 12 11 345 12  100.4 -9.000 -9.000 -9.000  380. -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0 282.9  2.0   0  0.00   55. 1005.    2 NAD-SFC NoSubs
11 12 11 345 13   98.7 -9.000 -9.000 -9.000  518. -999. -99999.0  0.0471  0.72  0.21  0.00    0.0  15.0 284.5  2.0   0  0.00   47. 1004.    2 NAD-SFC NoSubs
11 12 11 345 14   82.1  0.133  1.121  0.006  614.  116.     -2.6  0.0950  0.72  0.22  1.00  331.0  15.0 285.2  2.0   0  0.00   44. 1003.    2 NAD-SFC NoSubs
11 12 11 345 15   51.7  0.165  0.988  0.005  667.  161.     -7.8  0.0950  0.72  0.26  1.50  336.0  15.0 285.4  2.0   0  0.00   44. 1002.    2 NAD-SFC NoSubs
11 12 11 345 16   10.8  0.187  0.591  0.005  678.  194.    -53.5  0.0950  0.72  0.36  2.10  352.0  15.0 286.0  2.0   0  0.00   49. 1001.    2 NAD-SFC NoSubs
11 12 11 345 17  -10.2  0.150 -9.000 -9.000 -999.  140.     29.6  0.0950  0.72  0.67  2.10  357.0  15.0 285.2  2.0   0  0.00   52. 1001.    3 NAD-SFC NoSubs
11 12 11 345 18   -2.9  0.086 -9.000 -9.000 -999.   61.     19.9  0.0950  0.72  1.00  1.00  354.0  15.0 284.1  2.0   0  0.00   57. 1001.    3 NAD-SFC NoSubs
11 12 11 345 19   -2.1  0.073 -9.000 -9.000 -999.   48.     16.6  0.0220  0.72  1.00  1.00  233.0  15.0 282.9  2.0   0  0.00   63. 1002.    3 NAD-SFC NoSubs
11 12 11 345 20   -2.1  0.073 -9.000 -9.000 -999.   48.     16.7  0.0220  0.72  1.00  1.00  234.0  15.0 281.9  2.0   0  0.00   68. 1002.    3 NAD-SFC NoSubs
11 12 11 345 21   -3.7  0.086 -9.000 -9.000 -999.   60.     15.2  0.0200  0.72  1.00  1.50  245.0  15.0 281.2  2.0   0  0.00   71. 1002.    3 NAD-SFC NoSubs
11 12 11 345 22   -3.7  0.086 -9.000 -9.000 -999.   60.     15.2  0.0200  0.72  1.00  1.50  251.0  15.0 280.6  2.0   0  0.00   77. 1003.    3 NAD-SFC NoSubs
11 12 11 345 23   -3.7  0.086 -9.000 -9.000 -999.   60.     15.2  0.0200  0.72  1.00  1.50  265.0  15.0 280.1  2.0   0  0.00   83. 1003.    3 NAD-SFC NoSubs
11 12 11 345 24   -2.4  0.079 -9.000 -9.000 -999.   53.     18.0  0.0420  0.72  1.00  1.00  274.0  15.0 279.8  2.0   0  0.00   88. 1002.    3 NAD-SFC NoSubs
11 12 12 346  1   -1.2  0.073 -9.000 -9.000 -999.   47.     29.1  0.0800  0.72  1.00  0.50  318.0  15.0 279.2  2.0   0  0.00   92. 1002.    3 NAD-SFC NoSubs
11 12 12 346  2   -2.7  0.084 -9.000 -9.000 -999.   58.     19.3  0.0800  0.72  1.00  1.00  327.0  15.0 278.6  2.0   0  0.00   97. 1002.    4 NAD-SFC NoSubs
11 12 12 346  3   -2.7  0.084 -9.000 -9.000 -999.   58.     19.4  0.0800  0.72  1.00  1.00  323.0  15.0 278.2  2.0   0  0.00  100. 1002.    4 NAD-SFC NoSubs
11 12 12 346  4   -2.3  0.076 -9.000 -9.000 -999.   51.     17.7  0.0420  0.72  1.00  1.00  292.0  15.0 278.2  2.0   0  0.00  100. 1002.    5 NAD-SFC NoSubs
11 12 12 346  5  -12.0  0.162 -9.000 -9.000 -999.  156.     31.6  0.0420  0.72  1.00  2.60  295.0  15.0 278.2  2.0   0  0.00  100. 1002.    6 NAD-SFC NoSubs
11 12 12 346  6  -14.5  0.183 -9.000 -9.000 -999.  189.     37.9  0.0800  0.72  1.00  2.60  304.0  15.0 278.2  2.0   0  0.00  100. 1002.    6 NAD-SFC NoSubs
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11 12 12 346  7  -14.0  0.184 -9.000 -9.000 -999.  189.     39.8  0.0800  0.72  1.00     2.60  323.0  15.0  278.1  2.0   0   0.00   99.  1002.    7 NAD-SFC NoSubs
11 12 12 346  8   -7.4  0.155 -9.000 -9.000 -999.  146.     44.6  0.0950  0.72  0.55     2.10  333.0  15.0  277.8  2.0   0   0.00  100.  1002.   10 NAD-SFC NoSubs
11 12 12 346  9    0.9  0.124  0.133  0.012   95.  105.   -196.8  0.0950  0.72  0.32     1.50  345.0  15.0  277.8  2.0   0   0.00   98.  1002.   10 NAD-SFC NoSubs
11 12 12 346 10   10.6  0.103  0.324  0.012  114.   79.     -9.2  0.0800  0.72  0.24     1.00  309.0  15.0  278.2  2.0   0   0.00   95.  1002.   10 NAD-SFC NoSubs
11 12 12 346 11   71.7  0.113  0.733  0.009  196.   91.     -1.8  0.0420  0.72  0.22     1.00  291.0  15.0  279.2  2.0   0   0.00   89.  1002.    7 NAD-SFC NoSubs
11 12 12 346 12   96.9  0.153  0.948  0.007  314.  143.     -3.3  0.0420  0.72  0.21     1.50  299.0  15.0  280.1  2.0   0   0.00   84.  1001.    5 NAD-SFC NoSubs
11 12 12 346 13   97.9  0.171  1.044  0.005  415.  170.     -4.6  0.0800  0.72  0.21     1.50  328.0  15.0  281.0  2.0   0   0.00   80.  1001.    4 NAD-SFC NoSubs
11 12 12 346 14   81.9  0.219  1.066  0.005  529.  246.    -11.5  0.0950  0.72  0.22     2.10  345.0  15.0  281.5  2.0   0   0.00   78.  1001.    4 NAD-SFC NoSubs
11 12 12 346 15   52.5  0.247  0.954  0.005  590.  294.    -25.6  0.0950  0.72  0.26     2.60  345.0  15.0  281.6  2.0   0   0.00   78.  1001.    4 NAD-SFC NoSubs
11 12 12 346 16   12.7  0.189  0.600  0.005  604.  197.    -47.0  0.0950  0.72  0.36     2.10  335.0  15.0  281.4  2.0   0   0.00   82.  1001.    4 NAD-SFC NoSubs
11 12 12 346 17   -9.6  0.145 -9.000 -9.000 -999.  133.     28.5  0.0800  0.72  0.67     2.10  316.0  15.0  280.9  2.0   0   0.00   85.  1001.    4 NAD-SFC NoSubs
11 12 12 346 18   -9.8  0.145 -9.000 -9.000 -999.  132.     27.8  0.0800  0.72  1.00     2.10  301.0  15.0  280.6  2.0   0   0.00   87.  1002.    4 NAD-SFC NoSubs
11 12 12 346 19   -4.1  0.094 -9.000 -9.000 -999.   69.     17.8  0.0420  0.72  1.00     1.50  288.0  15.0  280.2  2.0   0   0.00   89.  1002.    5 NAD-SFC NoSubs
11 12 12 346 20   -0.9  0.064 -9.000 -9.000 -999.   39.     26.0  0.0420  0.72  1.00     0.50  289.0  15.0  279.8  2.0   0   0.00   92.  1003.    6 NAD-SFC NoSubs
11 12 12 346 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00     0.00    0.0  15.0  279.2  2.0   0   0.00   94.  1004.    7 NAD-SFC NoSubs
11 12 12 346 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00     0.00    0.0  15.0  278.8  2.0   0   0.00   96.  1004.    8 NAD-SFC NoSubs
11 12 12 346 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00     0.00    0.0  15.0  278.6  2.0   0   0.00   98.  1005.   10 NAD-SFC NoSubs
11 12 12 346 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00     0.00    0.0  15.0  278.4  2.0   0   0.00   99.  1005.   10 NAD-SFC NoSubs
11 12 13 347  1   -0.6  0.052 -9.000 -9.000 -999.   29.     22.0  0.0420  0.72  1.00     0.50  279.0  15.0  278.5  2.0   0   0.00  100.  1006.   10 NAD-SFC NoSubs
11 12 13 347  2   -3.1  0.091 -9.000 -9.000 -999.   66.     22.3  0.0420  0.72  1.00     1.50  289.0  15.0  278.6  2.0   0   0.00  100.  1006.   10 NAD-SFC NoSubs
11 12 13 347  3   -6.2  0.131 -9.000 -9.000 -999.  114.     32.9  0.0420  0.72  1.00     2.10  286.0  15.0  278.8  2.0   0   0.00   99.  1006.   10 NAD-SFC NoSubs
11 12 13 347  4   -7.1  0.129 -9.000 -9.000 -999.  112.     27.5  0.0420  0.72  1.00     2.10  277.0  15.0  278.8  2.0   0   0.00   99.  1006.    8 NAD-SFC NoSubs
11 12 13 347  5   -3.4  0.084 -9.000 -9.000 -999.   58.     15.6  0.0200  0.72  1.00     1.50  260.0  15.0  278.8  2.0   0   0.00   99.  1007.    6 NAD-SFC NoSubs
11 12 13 347  6   -4.2  0.094 -9.000 -9.000 -999.   69.     17.7  0.0420  0.72  1.00     1.50  289.0  15.0  278.6  2.0   0   0.00   99.  1008.    5 NAD-SFC NoSubs
11 12 13 347  7   -2.7  0.084 -9.000 -9.000 -999.   58.     19.3  0.0800  0.72  1.00     1.00  326.0  15.0  278.8  2.0   0   0.00   99.  1008.    4 NAD-SFC NoSubs
11 12 13 347  8   -0.7  0.058 -9.000 -9.000 -999.   34.     23.7  0.0310  0.72  0.55     0.50   90.0  15.0  278.8  2.0   0   0.00   99.  1009.    4 NAD-SFC NoSubs
11 12 13 347  9   22.2 -9.000 -9.000 -9.000  134. -999. -99999.0  0.0471  0.72  0.32     0.00    0.0  15.0  278.8  2.0   0   0.00   98.  1010.    3 NAD-SFC NoSubs
11 12 13 347 10   60.6  0.080  0.748  0.007  248.   55.     -1.0  0.0800  0.72  0.24     0.50  306.0  15.0  278.9  2.0   0   0.00   94.  1010.    3 NAD-SFC NoSubs
11 12 13 347 11   87.3  0.104  0.951  0.005  355.   80.     -1.2  0.0220  0.72  0.22     1.00  239.0  15.0  279.8  2.0   0   0.00   88.  1010.    3 NAD-SFC NoSubs
11 12 13 347 12  100.1  0.105  1.102  0.005  482.   82.     -1.1  0.0220  0.72  0.21     1.00  229.0  15.0  281.0  2.0   0   0.00   81.  1010.    3 NAD-SFC NoSubs
11 12 13 347 13   98.5 -9.000 -9.000 -9.000  597. -999. -99999.0  0.0471  0.72  0.21     0.00    0.0  15.0  282.5  2.0   0   0.00   73.  1010.    3 NAD-SFC NoSubs
11 12 13 347 14   82.4 -9.000 -9.000 -9.000  701. -999. -99999.0  0.0471  0.72  0.22     0.00    0.0  15.0  283.6  2.0   0   0.00   67.  1009.    3 NAD-SFC NoSubs
11 12 13 347 15   52.6 -9.000 -9.000 -9.000  795. -999. -99999.0  0.0471  0.72  0.26     0.00    0.0  15.0  284.2  2.0   0   0.00   63.  1009.    3 NAD-SFC NoSubs
11 12 13 347 16   12.2  0.059  0.651  0.005  815.   34.     -1.5  0.0420  0.72  0.36     0.50  279.0  15.0  284.4  2.0   0   0.00   62.  1010.    3 NAD-SFC NoSubs
11 12 13 347 17   -0.9  0.063 -9.000 -9.000 -999.   38.     25.4  0.0220  0.72  0.67     0.50  192.0  15.0  283.8  2.0   0   0.00   66.  1010.    3 NAD-SFC NoSubs
11 12 13 347 18   -7.0  0.115 -9.000 -9.000 -999.   94.     19.5  0.0220  0.72  1.00     2.10  183.0  15.0  282.2  2.0   0   0.00   75.  1010.    3 NAD-SFC NoSubs
11 12 13 347 19  -22.0  0.208 -9.000 -9.000 -999.  227.     36.7  0.0240  0.72  1.00     3.60  177.0  15.0  280.9  2.0   0   0.00   84.  1011.    3 NAD-SFC NoSubs
11 12 13 347 20  -21.6  0.205 -9.000 -9.000 -999.  223.     35.9  0.0220  0.72  1.00     3.60  180.0  15.0  280.0  2.0   0   0.00   89.  1012.    3 NAD-SFC NoSubs
11 12 13 347 21  -16.2  0.177 -9.000 -9.000 -999.  179.     30.8  0.0240  0.72  1.00     3.10  179.0  15.0  279.6  2.0   0   0.00   90.  1012.    3 NAD-SFC NoSubs
11 12 13 347 22  -11.2  0.146 -9.000 -9.000 -999.  134.     25.1  0.0240  0.72  1.00     2.60  175.0  15.0  279.2  2.0   0   0.00   91.  1013.    3 NAD-SFC NoSubs
11 12 13 347 23   -7.3  0.117 -9.000 -9.000 -999.   96.     19.7  0.0240  0.72  1.00     2.10  152.0  15.0  278.6  2.0   0   0.00   92.  1013.    3 NAD-SFC NoSubs
11 12 13 347 24   -7.5  0.120 -9.000 -9.000 -999.   99.     20.5  0.0280  0.72  1.00     2.10  135.0  15.0  278.0  2.0   0   0.00   95.  1013.    3 NAD-SFC NoSubs
11 12 14 348  1   -7.6  0.120 -9.000 -9.000 -999.   99.     20.4  0.0280  0.72  1.00     2.10  129.0  15.0  277.5  2.0   0   0.00   97.  1013.    3 NAD-SFC NoSubs
11 12 14 348  2   -4.1  0.090 -9.000 -9.000 -999.   65.     16.1  0.0280  0.72  1.00     1.50  129.0  15.0  277.0  2.0   0   0.00   98.  1013.    3 NAD-SFC NoSubs
11 12 14 348  3   -1.0  0.067 -9.000 -9.000 -999.   42.     26.8  0.0310  0.72  1.00     0.50  108.0  15.0  275.8  2.0   0   0.00  100.  1014.    3 NAD-SFC NoSubs
11 12 14 348  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00     0.00    0.0  15.0  274.0  2.0   0   0.00  100.  1014.    3 NAD-SFC NoSubs
11 12 14 348  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00     0.00    0.0  15.0  273.4  2.0   0   0.00  100.  1015.    3 NAD-SFC NoSubs
11 12 14 348  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00     0.00    0.0  15.0  273.8  2.0   0   0.00  100.  1016.    3 NAD-SFC NoSubs
11 12 14 348  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00     0.00    0.0  15.0  274.0  2.0   0   0.00  100.  1016.    3 NAD-SFC NoSubs
11 12 14 348  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.56     0.00    0.0  15.0  273.8  2.0   0   0.00  100.  1017.    3 NAD-SFC NoSubs
11 12 14 348  9   21.2 -9.000 -9.000 -9.000   51. -999. -99999.0  0.0471  0.72  0.32     0.00    0.0  15.0  274.9  2.0   0   0.00   97.  1018.    3 NAD-SFC NoSubs
11 12 14 348 10   58.7  0.080  0.636  0.005  159.   54.     -1.0  0.0800  0.72  0.25     0.50  304.0  15.0  277.5  2.0   0   0.00   82.  1018.    2 NAD-SFC NoSubs
11 12 14 348 11   85.8  0.084  0.954  0.005  367.   59.     -1.0  0.0800  0.72  0.22     0.50  304.0  15.0  279.5  2.0   0   0.00   71.  1018.    2 NAD-SFC NoSubs
11 12 14 348 12   99.0  0.117  1.148  0.005  555.   96.     -1.5  0.0420  0.72  0.21     1.00  297.0  15.0  281.5  2.0   0   0.00   59.  1017.    2 NAD-SFC NoSubs
11 12 14 348 13   97.4  0.131  1.228  0.006  690.  114.     -2.1  0.0800  0.72  0.21     1.00  305.0  15.0  282.6  2.0   0   0.00   53.  1017.    2 NAD-SFC NoSubs
11 12 14 348 14   81.2  0.128  1.202  0.006  776.  110.     -2.4  0.0800  0.72  0.22     1.00  325.0  15.0  283.2  2.0   0   0.00   50.  1016.    2 NAD-SFC NoSubs
11 12 14 348 15   51.1  0.165  1.052  0.006  826.  160.     -7.9  0.0950  0.72  0.26     1.50  344.0  15.0  283.5  2.0   0   0.00   49.  1015.    2 NAD-SFC NoSubs
11 12 14 348 16   10.4  0.143  0.621  0.006  835.  130.    -25.4  0.0960  0.72  0.36     1.50    5.0  15.0  283.5  2.0   0   0.00   51.  1015.    2 NAD-SFC NoSubs
11 12 14 348 17   -1.2  0.074 -9.000 -9.000 -999.   49.     29.3  0.0960  0.72  0.67     0.50   21.0  15.0  282.8  2.0   0   0.00   55.  1014.    2 NAD-SFC NoSubs
11 12 14 348 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00     0.00    0.0  15.0  281.5  2.0   0   0.00   61.  1014.    2 NAD-SFC NoSubs
11 12 14 348 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00     0.00    0.0  15.0  280.2  2.0   0   0.00   67.  1015.    2 NAD-SFC NoSubs
11 12 14 348 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00     0.00    0.0  15.0  279.2  2.0   0   0.00   72.  1015.    2 NAD-SFC NoSubs
11 12 14 348 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00     0.00    0.0  15.0  278.6  2.0   0   0.00   77.  1015.    2 NAD-SFC NoSubs
11 12 14 348 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00     0.00    0.0  15.0  278.2  2.0   0   0.00   80.  1015.    2 NAD-SFC NoSubs
11 12 14 348 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00     0.00    0.0  15.0  277.8  2.0   0   0.00   82.  1016.    2 NAD-SFC NoSubs
11 12 14 348 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00     0.00    0.0  15.0  277.5  2.0   0   0.00   84.  1015.    2 NAD-SFC NoSubs
11 12 15 349  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00     0.00    0.0  15.0  277.2  2.0   0   0.00   85.  1016.    2 NAD-SFC NoSubs
11 12 15 349  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00     0.00    0.0  15.0  277.2  2.0   0   0.00   85.  1016.    2 NAD-SFC NoSubs
11 12 15 349  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00     0.00    0.0  15.0  277.1  2.0   0   0.00   85.  1015.    2 NAD-SFC NoSubs
11 12 15 349  4   -1.0  0.068 -9.000 -9.000 -999.   42.     27.1  0.0310  0.72  1.00     0.50   90.0  15.0  276.9  2.0   0   0.00   86.  1015.    2 NAD-SFC NoSubs
11 12 15 349  5   -2.4  0.077 -9.000 -9.000 -999.   51.     17.5  0.0310  0.72  1.00     1.00   90.0  15.0  276.8  2.0   0   0.00   87.  1015.    2 NAD-SFC NoSubs
11 12 15 349  6   -2.4  0.077 -9.000 -9.000 -999.   52.     17.5  0.0310  0.72  1.00     1.00  105.0  15.0  276.5  2.0   0   0.00   88.  1015.    2 NAD-SFC NoSubs
11 12 15 349  7   -1.0  0.067 -9.000 -9.000 -999.   42.     26.8  0.0280  0.72  1.00     0.50  136.0  15.0  276.4  2.0   0   0.00   88.  1015.    2 NAD-SFC NoSubs
11 12 15 349  8   -0.8  0.061 -9.000 -9.000 -999.   37.     24.8  0.0280  0.72  0.56     0.50  145.0  15.0  276.1  2.0   0   0.00   88.  1015.    2 NAD-SFC NoSubs
11 12 15 349  9   20.8 -9.000 -9.000 -9.000   71. -999. -99999.0  0.0471  0.72  0.33     0.00    0.0  15.0  276.8  2.0   0   0.00   86.  1015.    3 NAD-SFC NoSubs
11 12 15 349 10   59.6 -9.000 -9.000 -9.000  191. -999. -99999.0  0.0471  0.72  0.25     0.00    0.0  15.0  279.2  2.0   0   0.00   71.  1015.    3 NAD-SFC NoSubs
11 12 15 349 11   86.6 -9.000 -9.000 -9.000  346. -999. -99999.0  0.0471  0.72  0.22     0.00    0.0  15.0  280.9  2.0   0   0.00   63.  1015.    3 NAD-SFC NoSubs
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11 12 15 349 12   98.8 -9.000 -9.000 -9.000  462. -999. -99999.0 0.0471 0.72 0.21 0.00   0.0 15.0 282.2 2.0 0 0.00 55. 1014. 2 NAD-SFC NoSubs
11 12 15 349 13   97.3 -9.000 -9.000 -9.000  552. -999. -99999.0 0.0471 0.72 0.21 0.00   0.0 15.0 283.0 2.0 0 0.00 51. 1013. 2 NAD-SFC NoSubs
11 12 15 349 14   81.2  0.128  1.114  0.005  616.  110.     -2.4 0.0800 0.72 0.22 1.00 306.0 15.0 283.5 2.0 0 0.00 48. 1013. 2 NAD-SFC NoSubs
11 12 15 349 15   51.1  0.203  0.975  0.005  654.  220.    -14.8 0.0800 0.72 0.26 2.10 326.0 15.0 283.5 2.0 0 0.00 49. 1012. 2 NAD-SFC NoSubs
11 12 15 349 16   10.4  0.138  0.577  0.005  664.  125.    -23.0 0.0800 0.72 0.36 1.50 328.0 15.0 283.2 2.0 0 0.00 53. 1012. 2 NAD-SFC NoSubs
11 12 15 349 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 0.66 0.00   0.0 15.0 282.8 2.0 0 0.00 56. 1012. 2 NAD-SFC NoSubs
11 12 15 349 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 281.6 2.0 0 0.00 62. 1012. 2 NAD-SFC NoSubs
11 12 15 349 19   -1.0  0.065 -9.000 -9.000 -999.   40.     26.1 0.0240 0.72 1.00 0.50 173.0 15.0 280.6 2.0 0 0.00 67. 1013. 3 NAD-SFC NoSubs
11 12 15 349 20   -2.2  0.074 -9.000 -9.000 -999.   49.     16.8 0.0220 0.72 1.00 1.00 188.0 15.0 279.8 2.0 0 0.00 71. 1013. 2 NAD-SFC NoSubs
11 12 15 349 21   -2.2  0.074 -9.000 -9.000 -999.   49.     16.8 0.0220 0.72 1.00 1.00 185.0 15.0 278.9 2.0 0 0.00 74. 1013. 2 NAD-SFC NoSubs
11 12 15 349 22   -2.3  0.075 -9.000 -9.000 -999.   49.     17.0 0.0240 0.72 1.00 1.00 164.0 15.0 278.2 2.0 0 0.00 77. 1014. 2 NAD-SFC NoSubs
11 12 15 349 23   -2.3  0.075 -9.000 -9.000 -999.   49.     17.0 0.0240 0.72 1.00 1.00 170.0 15.0 277.8 2.0 0 0.00 79. 1014. 2 NAD-SFC NoSubs
11 12 15 349 24   -3.9  0.087 -9.000 -9.000 -999.   62.     15.4 0.0220 0.72 1.00 1.50 189.0 15.0 277.5 2.0 0 0.00 79. 1014. 2 NAD-SFC NoSubs
11 12 16 350  1   -7.2  0.115 -9.000 -9.000 -999.   94.     19.1 0.0220 0.72 1.00 2.10 209.0 15.0 277.2 2.0 0 0.00 78. 1014. 2 NAD-SFC NoSubs
11 12 16 350  2  -16.2  0.174 -9.000 -9.000 -999.  174.     29.6 0.0220 0.72 1.00 3.10 238.0 15.0 277.2 2.0 0 0.00 76. 1015. 2 NAD-SFC NoSubs
11 12 16 350  3  -21.6  0.202 -9.000 -9.000 -999.  217.     34.4 0.0200 0.72 1.00 3.60 249.0 15.0 277.1 2.0 0 0.00 76. 1015. 2 NAD-SFC NoSubs
11 12 16 350  4  -25.8  0.228 -9.000 -9.000 -999.  262.     41.7 0.0420 0.72 1.00 3.60 273.0 15.0 276.9 2.0 0 0.00 77. 1015. 2 NAD-SFC NoSubs
11 12 16 350  5  -19.1  0.194 -9.000 -9.000 -999.  206.     34.8 0.0420 0.72 1.00 3.10 285.0 15.0 276.4 2.0 0 0.00 77. 1015. 2 NAD-SFC NoSubs
11 12 16 350  6  -13.3  0.161 -9.000 -9.000 -999.  155.     28.3 0.0420 0.72 1.00 2.60 284.0 15.0 275.9 2.0 0 0.00 76. 1015. 2 NAD-SFC NoSubs
11 12 16 350  7   -7.1  0.113 -9.000 -9.000 -999.   92.     18.6 0.0200 0.72 1.00 2.10 269.0 15.0 275.5 2.0 0 0.00 74. 1015. 2 NAD-SFC NoSubs
11 12 16 350  8   -6.4  0.114 -9.000 -9.000 -999.   92.     20.6 0.0200 0.72 0.57 2.10 248.0 15.0 275.2 2.0 0 0.00 71. 1015. 2 NAD-SFC NoSubs
11 12 16 350  9   18.7  0.151  0.314  0.008   60.  141.    -16.7 0.0200 0.72 0.33 2.10 243.0 15.0 276.5 2.0 0 0.00 64. 1015. 2 NAD-SFC NoSubs
11 12 16 350 10   57.8  0.194  0.657  0.007  178.  205.    -11.4 0.0200 0.72 0.25 2.60 264.0 15.0 278.8 2.0 0 0.00 54. 1015. 2 NAD-SFC NoSubs
11 12 16 350 11   85.2  0.134  0.919  0.007  330.  119.     -2.6 0.0200 0.72 0.22 1.50 267.0 15.0 280.8 2.0 0 0.00 48. 1015. 2 NAD-SFC NoSubs
11 12 16 350 12   98.6  0.153  1.081  0.006  464.  144.     -3.3 0.0420 0.72 0.21 1.50 295.0 15.0 282.6 2.0 0 0.00 43. 1014. 2 NAD-SFC NoSubs
11 12 16 350 13   97.3  0.216  1.157  0.006  576.  241.     -9.3 0.0800 0.72 0.21 2.10 306.0 15.0 283.8 2.0 0 0.00 41. 1013. 2 NAD-SFC NoSubs
11 12 16 350 14   81.3  0.212  1.138  0.006  655.  234.    -10.6 0.0800 0.72 0.22 2.10 316.0 15.0 284.5 2.0 0 0.00 40. 1012. 2 NAD-SFC NoSubs
11 12 16 350 15   51.5  0.210  1.002  0.006  706.  230.    -16.1 0.0950 0.72 0.26 2.10 333.0 15.0 284.8 2.0 0 0.00 41. 1012. 2 NAD-SFC NoSubs
11 12 16 350 16   11.0  0.143  0.603  0.006  717.  131.    -24.1 0.0950 0.72 0.36 1.50 353.0 15.0 285.1 2.0 0 0.00 42. 1012. 2 NAD-SFC NoSubs
11 12 16 350 17   -5.4  0.108 -9.000 -9.000 -999.   85.     21.1 0.0960 0.72 0.66 1.50   2.0 15.0 284.2 2.0 0 0.00 46. 1012. 2 NAD-SFC NoSubs
11 12 16 350 18   -1.3  0.075 -9.000 -9.000 -999.   49.     29.7 0.0960 0.72 1.00 0.50  29.0 15.0 283.1 2.0 0 0.00 50. 1012. 2 NAD-SFC NoSubs
11 12 16 350 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 281.9 2.0 0 0.00 56. 1012. 2 NAD-SFC NoSubs
11 12 16 350 20   -1.0  0.066 -9.000 -9.000 -999.   41.     26.3 0.0240 0.72 1.00 0.50 176.0 15.0 280.8 2.0 0 0.00 61. 1013. 2 NAD-SFC NoSubs
11 12 16 350 21   -1.0  0.066 -9.000 -9.000 -999.   40.     26.2 0.0220 0.72 1.00 0.50 192.0 15.0 279.9 2.0 0 0.00 65. 1013. 2 NAD-SFC NoSubs
11 12 16 350 22   -1.0  0.068 -9.000 -9.000 -999.   42.     27.0 0.0310 0.72 1.00 0.50 108.0 15.0 279.4 2.0 0 0.00 66. 1013. 2 NAD-SFC NoSubs
11 12 16 350 23   -2.5  0.079 -9.000 -9.000 -999.   53.     18.0 0.0400 0.72 1.00 1.00  81.0 15.0 278.9 2.0 0 0.00 66. 1014. 2 NAD-SFC NoSubs
11 12 16 350 24   -4.5  0.095 -9.000 -9.000 -999.   70.     17.1 0.0400 0.72 1.00 1.50  75.0 15.0 278.2 2.0 0 0.00 68. 1014. 2 NAD-SFC NoSubs
11 12 17 351  1   -4.5  0.095 -9.000 -9.000 -999.   70.     17.1 0.0400 0.72 1.00 1.50  60.0 15.0 277.6 2.0 0 0.00 70. 1014. 2 NAD-SFC NoSubs
11 12 17 351  2  -13.0  0.159 -9.000 -9.000 -999.  153.     28.0 0.0400 0.72 1.00 2.60  65.0 15.0 277.2 2.0 0 0.00 70. 1014. 2 NAD-SFC NoSubs
11 12 17 351  3  -15.0  0.175 -9.000 -9.000 -999.  175.     32.0 0.0650 0.72 1.00 2.60  53.0 15.0 277.0 2.0 0 0.00 69. 1013. 2 NAD-SFC NoSubs
11 12 17 351  4   -9.6  0.139 -9.000 -9.000 -999.  124.     25.0 0.0650 0.72 1.00 2.10  36.0 15.0 276.8 2.0 0 0.00 69. 1013. 2 NAD-SFC NoSubs
11 12 17 351  5   -5.6  0.109 -9.000 -9.000 -999.   86.     20.6 0.0960 0.72 1.00 1.50  28.0 15.0 276.4 2.0 0 0.00 70. 1013. 2 NAD-SFC NoSubs
11 12 17 351  6   -1.3  0.076 -9.000 -9.000 -999.   50.     30.0 0.0960 0.72 1.00 0.50   6.0 15.0 276.0 2.0 0 0.00 72. 1013. 2 NAD-SFC NoSubs
11 12 17 351  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 275.6 2.0 0 0.00 74. 1013. 2 NAD-SFC NoSubs
11 12 17 351  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 0.57 0.00   0.0 15.0 275.2 2.0 0 0.00 76. 1013. 2 NAD-SFC NoSubs
11 12 17 351  9   18.2 -9.000 -9.000 -9.000   56. -999. -99999.0 0.0471 0.72 0.33 0.00   0.0 15.0 276.2 2.0 0 0.00 75. 1013. 2 NAD-SFC NoSubs
11 12 17 351 10   57.5  0.082  0.624  0.014  153.   57.     -1.0 0.0950 0.72 0.25 0.50 334.0 15.0 279.8 2.0 0 0.00 60. 1013. 2 NAD-SFC NoSubs
11 12 17 351 11   85.2  0.133  0.858  0.013  267.  117.     -2.5 0.0950 0.72 0.22 1.00 330.0 15.0 282.1 2.0 0 0.00 52. 1012. 2 NAD-SFC NoSubs
11 12 17 351 12   98.6  0.177  0.994  0.012  359.  178.     -5.0 0.0950 0.72 0.21 1.50 346.0 15.0 283.8 2.0 0 0.00 47. 1011. 2 NAD-SFC NoSubs
11 12 17 351 13   97.4  0.223  1.053  0.011  433.  253.    -10.3 0.0960 0.72 0.21 2.10   3.0 15.0 284.9 2.0 0 0.00 44. 1011. 2 NAD-SFC NoSubs
11 12 17 351 14   81.6  0.256  1.033  0.010  487.  311.    -18.5 0.0960 0.72 0.22 2.60   8.0 15.0 285.8 2.0 0 0.00 41. 1011. 2 NAD-SFC NoSubs
11 12 17 351 15   51.8  0.247  0.907  0.010  518.  295.    -26.2 0.0960 0.72 0.26 2.60  13.0 15.0 285.8 2.0 0 0.00 42. 1010. 2 NAD-SFC NoSubs
11 12 17 351 16   11.2  0.224  0.547  0.010  524.  254.    -90.3 0.0960 0.72 0.36 2.60  29.0 15.0 285.2 2.0 0 0.00 49. 1010. 2 NAD-SFC NoSubs
11 12 17 351 17  -26.0  0.248 -9.000 -9.000 -999.  297.     53.0 0.0650 0.72 0.66 3.60  44.0 15.0 284.2 2.0 0 0.00 50. 1011. 2 NAD-SFC NoSubs
11 12 17 351 18  -14.8  0.175 -9.000 -9.000 -999.  177.     32.5 0.0650 0.72 1.00 2.60  54.0 15.0 283.4 2.0 0 0.00 52. 1011. 2 NAD-SFC NoSubs
11 12 17 351 19   -1.1  0.069 -9.000 -9.000 -999.   51.     27.5 0.0400 0.72 1.00 0.50  73.0 15.0 282.2 2.0 0 0.00 56. 1011. 2 NAD-SFC NoSubs
11 12 17 351 20   -2.2  0.074 -9.000 -9.000 -999.   49.     16.8 0.0220 0.72 1.00 1.00 218.0 15.0 281.2 2.0 0 0.00 62. 1011. 2 NAD-SFC NoSubs
11 12 17 351 21   -1.0  0.066 -9.000 -9.000 -999.   40.     26.1 0.0220 0.72 1.00 0.50 219.0 15.0 280.8 2.0 0 0.00 65. 1011. 2 NAD-SFC NoSubs
11 12 17 351 22   -2.7  0.083 -9.000 -9.000 -999.   58.     19.0 0.0650 0.72 1.00 1.00  50.0 15.0 280.0 2.0 0 0.00 68. 1011. 2 NAD-SFC NoSubs
11 12 17 351 23  -14.9  0.175 -9.000 -9.000 -999.  175.     32.2 0.0650 0.72 1.00 2.60  39.0 15.0 279.1 2.0 0 0.00 72. 1012. 2 NAD-SFC NoSubs
11 12 17 351 24  -24.4  0.229 -9.000 -9.000 -999.  263.     44.3 0.0960 0.72 1.00 3.10  27.0 15.0 278.8 2.0 0 0.00 71. 1012. 2 NAD-SFC NoSubs
11 12 18 352  1  -14.9  0.175 -9.000 -9.000 -999.  176.     32.2 0.0650 0.72 1.00 2.60  30.0 15.0 278.8 2.0 0 0.00 70. 1012. 2 NAD-SFC NoSubs
11 12 18 352  2   -9.6  0.139 -9.000 -9.000 -999.  124.     25.1 0.0650 0.72 1.00 2.10  30.0 15.0 278.4 2.0 0 0.00 70. 1012. 2 NAD-SFC NoSubs
11 12 18 352  3   -5.6  0.109 -9.000 -9.000 -999.   86.     20.7 0.0960 0.72 1.00 1.50   6.0 15.0 278.1 2.0 0 0.00 71. 1012. 2 NAD-SFC NoSubs
11 12 18 352  4   -2.9  0.086 -9.000 -9.000 -999.   60.     19.6 0.0800 0.72 1.00 1.00 307.0 15.0 277.6 2.0 0 0.00 73. 1013. 2 NAD-SFC NoSubs
11 12 18 352  5   -2.5  0.080 -9.000 -9.000 -999.   54.     18.1 0.0420 0.72 1.00 1.00 290.0 15.0 277.1 2.0 0 0.00 76. 1013. 2 NAD-SFC NoSubs
11 12 18 352  6   -1.1  0.070 -9.000 -9.000 -999.   44.     27.8 0.0420 0.72 1.00 0.50 297.0 15.0 276.9 2.0 0 0.00 77. 1013. 2 NAD-SFC NoSubs
11 12 18 352  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 276.5 2.0 0 0.00 79. 1013. 2 NAD-SFC NoSubs
11 12 18 352  8   -0.9  0.064 -9.000 -9.000 -999.   39.     26.0 0.0400 0.72 0.57 0.50  81.0 15.0 276.1 2.0 0 0.00 81. 1014. 2 NAD-SFC NoSubs
11 12 18 352  9   17.8 -9.000 -9.000 -9.000   51. -999. -99999.0 0.0471 0.72 0.33 0.00   0.0 15.0 277.0 2.0 0 0.00 80. 1014. 2 NAD-SFC NoSubs
11 12 18 352 10   57.2 -9.000 -9.000 -9.000  150. -999. -99999.0 0.0471 0.72 0.25 0.00   0.0 15.0 280.2 2.0 0 0.00 64. 1014. 2 NAD-SFC NoSubs
11 12 18 352 11   84.8 -9.000 -9.000 -9.000  311. -999. -99999.0 0.0471 0.72 0.22 0.00   0.0 15.0 282.2 2.0 0 0.00 56. 1014. 2 NAD-SFC NoSubs
11 12 18 352 12   98.5 -9.000 -9.000 -9.000  442. -999. -99999.0 0.0471 0.72 0.21 0.00   0.0 15.0 284.0 2.0 0 0.00 49. 1013. 2 NAD-SFC NoSubs
11 12 18 352 13   97.4 -9.000 -9.000 -9.000  543. -999. -99999.0 0.0471 0.72 0.21 0.00   0.0 15.0 285.0 2.0 0 0.00 44. 1012. 2 NAD-SFC NoSubs
11 12 18 352 14   81.6 -9.000 -9.000 -9.000  615. -999. -99999.0 0.0471 0.72 0.22 0.00   0.0 15.0 285.6 2.0 0 0.00 43. 1011. 2 NAD-SFC NoSubs
11 12 18 352 15   52.0  0.062  0.982  0.006  656.   37.     -1.0 0.0200 0.72 0.26 0.50 260.0 15.0 285.9 2.0 0 0.00 43. 1011. 2 NAD-SFC NoSubs
11 12 18 352 16   11.5 -9.000 -9.000 -9.000  666. -999. -99999.0 0.0471 0.72 0.36 0.00   0.0 15.0 285.8 2.0 0 0.00 45. 1010. 2 NAD-SFC NoSubs
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11 12 18 352 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 0.66 0.00 0.0 15.0 284.8 2.0 0 0.00 50. 1010. 2 NAD-SFC NoSubs
11 12 18 352 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00 0.0 15.0 283.5 2.0 0 0.00 56. 1009. 2 NAD-SFC NoSubs
11 12 18 352 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00 0.0 15.0 282.2 2.0 0 0.00 62. 1009. 2 NAD-SFC NoSubs
11 12 18 352 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00 0.0 15.0 281.1 2.0 0 0.00 68. 1009. 2 NAD-SFC NoSubs
11 12 18 352 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00 0.0 15.0 280.1 2.0 0 0.00 73. 1009. 2 NAD-SFC NoSubs
11 12 18 352 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00 0.0 15.0 279.4 2.0 0 0.00 76. 1010. 2 NAD-SFC NoSubs
11 12 18 352 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00 0.0 15.0 278.8 2.0 0 0.00 79. 1010. 2 NAD-SFC NoSubs
11 12 18 352 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00 0.0 15.0 278.2 2.0 0 0.00 81. 1009. 2 NAD-SFC NoSubs
11 12 19 353  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00 0.0 15.0 277.6 2.0 0 0.00 83. 1009. 2 NAD-SFC NoSubs
11 12 19 353  2   -1.2  0.074 -9.000 -9.000 -999.  49.    29.5 0.0800 0.72 1.00 0.50 300.0 15.0 277.2 2.0 0 0.00 85. 1009. 2 NAD-SFC NoSubs
11 12 19 353  3   -2.9  0.086 -9.000 -9.000 -999.  60.    19.6 0.0800 0.72 1.00 1.00 300.0 15.0 276.8 2.0 0 0.00 87. 1009. 2 NAD-SFC NoSubs
11 12 19 353  4   -4.5  0.095 -9.000 -9.000 -999.  71.    17.3 0.0420 0.72 1.00 1.50 297.0 15.0 276.5 2.0 0 0.00 87. 1009. 2 NAD-SFC NoSubs
11 12 19 353  5  -10.2  0.145 -9.000 -9.000 -999. 132.    26.6 0.0800 0.72 1.00 2.10 300.0 15.0 276.4 2.0 0 0.00 87. 1010. 2 NAD-SFC NoSubs
11 12 19 353  6  -10.2  0.145 -9.000 -9.000 -999. 132.    26.6 0.0800 0.72 1.00 2.10 311.0 15.0 276.2 2.0 0 0.00 87. 1010. 2 NAD-SFC NoSubs
11 12 19 353  7   -5.3  0.105 -9.000 -9.000 -999.  82.    19.8 0.0800 0.72 1.00 1.50 300.0 15.0 275.9 2.0 0 0.00 88. 1010. 2 NAD-SFC NoSubs
11 12 19 353  8   -4.1  0.093 -9.000 -9.000 -999.  68.    18.0 0.0420 0.72 0.58 1.50 295.0 15.0 275.8 2.0 0 0.00 88. 1011. 2 NAD-SFC NoSubs
11 12 19 353  9   17.4  0.144  0.298  0.007  55. 132.   -15.6 0.0800 0.72 0.33 1.50 318.0 15.0 277.1 2.0 0 0.00 80. 1011. 2 NAD-SFC NoSubs
11 12 19 353 10   57.8  0.127  0.649  0.007 170. 109.    -3.2 0.0950 0.72 0.25 1.00 331.0 15.0 278.9 2.0 0 0.00 72. 1011. 3 NAD-SFC NoSubs
11 12 19 353 11   84.2 -9.000 -9.000 -9.000 338. -999. -99999.0 0.0471 0.72 0.22 0.00 0.0 15.0 280.6 2.0 0 0.00 65. 1011. 2 NAD-SFC NoSubs
11 12 19 353 12   97.9  0.086  1.105  0.007 496.  60.    -1.0 0.0800 0.72 0.21 0.50 300.0 15.0 282.0 2.0 0 0.00 59. 1010. 2 NAD-SFC NoSubs
11 12 19 353 13   96.8  0.086  1.189  0.008 626.  60.    -1.0 0.0800 0.72 0.21 0.50 312.0 15.0 282.8 2.0 0 0.00 56. 1009. 2 NAD-SFC NoSubs
11 12 19 353 14   81.1  0.128  1.166  0.008 703. 111.    -2.3 0.0800 0.72 0.22 1.00 307.0 15.0 283.5 2.0 0 0.00 53. 1008. 2 NAD-SFC NoSubs
11 12 19 353 15   51.6  0.160  1.021  0.008 743. 153.    -7.1 0.0800 0.72 0.26 1.50 321.0 15.0 283.8 2.0 0 0.00 51. 1008. 2 NAD-SFC NoSubs
11 12 19 353 16   11.2  0.187  0.618  0.008 751. 194.   -52.2 0.0950 0.72 0.36 2.10 339.0 15.0 283.8 2.0 0 0.00 54. 1007. 2 NAD-SFC NoSubs
11 12 19 353 17    4.1 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 0.65 0.00 0.0 15.0 283.0 2.0 0 0.00 57. 1007. 2 NAD-SFC NoSubs
11 12 19 353 18   -3.0  0.087 -9.000 -9.000 -999.  62.    20.0 0.0960 0.72 1.00 1.00 19.0 15.0 282.0 2.0 0 0.00 61. 1008. 2 NAD-SFC NoSubs
11 12 19 353 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00 0.0 15.0 280.9 2.0 0 0.00 67. 1009. 2 NAD-SFC NoSubs
11 12 19 353 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00 0.0 15.0 279.8 2.0 0 0.00 73. 1009. 2 NAD-SFC NoSubs
11 12 19 353 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00 0.0 15.0 279.0 2.0 0 0.00 77. 1010. 2 NAD-SFC NoSubs
11 12 19 353 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00 0.0 15.0 278.2 2.0 0 0.00 81. 1011. 2 NAD-SFC NoSubs
11 12 19 353 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00 0.0 15.0 277.8 2.0 0 0.00 84. 1011. 2 NAD-SFC NoSubs
11 12 19 353 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00 0.0 15.0 277.1 2.0 0 0.00 86. 1011. 2 NAD-SFC NoSubs
11 12 20 354  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00 0.0 15.0 276.8 2.0 0 0.00 88. 1011. 2 NAD-SFC NoSubs
11 12 20 354  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00 0.0 15.0 276.5 2.0 0 0.00 88. 1011. 2 NAD-SFC NoSubs
11 12 20 354  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00 0.0 15.0 276.2 2.0 0 0.00 88. 1011. 2 NAD-SFC NoSubs
11 12 20 354  4   -1.3  0.076 -9.000 -9.000 -999.  50.    30.0 0.0950 0.72 1.00 0.50 336.0 15.0 276.0 2.0 0 0.00 87. 1011. 2 NAD-SFC NoSubs
11 12 20 354  5   -1.1  0.070 -9.000 -9.000 -999.  44.    27.9 0.0420 0.72 1.00 0.50 297.0 15.0 275.8 2.0 0 0.00 86. 1011. 2 NAD-SFC NoSubs
11 12 20 354  6   -2.5  0.080 -9.000 -9.000 -999.  54.    18.1 0.0420 0.72 1.00 1.00 271.0 15.0 275.6 2.0 0 0.00 85. 1011. 2 NAD-SFC NoSubs
11 12 20 354  7   -2.2  0.074 -9.000 -9.000 -999.  48.    16.7 0.0200 0.72 1.00 1.00 246.0 15.0 275.5 2.0 0 0.00 84. 1011. 2 NAD-SFC NoSubs
11 12 20 354  8   -3.5  0.085 -9.000 -9.000 -999.  60.    15.8 0.0220 0.72 0.58 1.50 231.0 15.0 275.5 2.0 0 0.00 82. 1011. 2 NAD-SFC NoSubs
11 12 20 354  9   16.9  0.117  0.294  0.008  54.  96.    -8.6 0.0220 0.72 0.33 1.50 236.0 15.0 276.8 2.0 0 0.00 74. 1011. 2 NAD-SFC NoSubs
11 12 20 354 10   56.3  0.097  0.625  0.008 157.  73.    -1.5 0.0200 0.72 0.25 1.00 268.0 15.0 279.2 2.0 0 0.00 61. 1011. 2 NAD-SFC NoSubs
11 12 20 354 11   84.1  0.066  0.925  0.009 339.  40.    -1.0 0.0200 0.72 0.22 0.50 266.0 15.0 281.1 2.0 0 0.00 54. 1011. 2 NAD-SFC NoSubs
11 12 20 354 12   97.8  0.076  1.090  0.009 477.  50.    -1.0 0.0420 0.72 0.21 0.50 283.0 15.0 282.6 2.0 0 0.00 49. 1010. 2 NAD-SFC NoSubs
11 12 20 354 13   96.9  0.086  1.157  0.009 576.  60.    -1.0 0.0800 0.72 0.21 0.50 319.0 15.0 283.6 2.0 0 0.00 47. 1009. 2 NAD-SFC NoSubs
11 12 20 354 14   81.4  0.133  1.136  0.009 648. 116.    -2.6 0.0950 0.72 0.22 1.00 352.0 15.0 284.2 2.0 0 0.00 46. 1008. 2 NAD-SFC NoSubs
11 12 20 354 15   51.9  0.210  0.994  0.009 681. 231.   -16.0 0.0950 0.72 0.26 2.10 358.0 15.0 284.5 2.0 0 0.00 46. 1008. 2 NAD-SFC NoSubs
11 12 20 354 16   11.6  0.188  0.606  0.009 687. 195.   -51.2 0.0960 0.72 0.36 2.10 10.0 15.0 284.2 2.0 0 0.00 50. 1008. 2 NAD-SFC NoSubs
11 12 20 354 17  -10.4  0.151 -9.000 -9.000 -999. 140.    29.4 0.0960 0.72 0.65 2.10 12.0 15.0 283.4 2.0 0 0.00 53. 1007. 2 NAD-SFC NoSubs
11 12 20 354 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00 0.0 15.0 282.2 2.0 0 0.00 57. 1007. 2 NAD-SFC NoSubs
11 12 20 354 19   -1.0  0.065 -9.000 -9.000 -999.  40.    26.1 0.0220 0.72 1.00 0.50 201.0 15.0 281.1 2.0 0 0.00 64. 1007. 2 NAD-SFC NoSubs
11 12 20 354 20   -2.2  0.074 -9.000 -9.000 -999.  49.    16.8 0.0220 0.72 1.00 1.00 189.0 15.0 280.1 2.0 0 0.00 69. 1007. 2 NAD-SFC NoSubs
11 12 20 354 21   -2.2  0.075 -9.000 -9.000 -999.  49.    17.0 0.0240 0.72 1.00 1.00 178.0 15.0 279.4 2.0 0 0.00 72. 1007. 2 NAD-SFC NoSubs
11 12 20 354 22   -2.4  0.077 -9.000 -9.000 -999.  51.    17.5 0.0310 0.72 1.00 1.00 110.0 15.0 278.8 2.0 0 0.00 76. 1008. 2 NAD-SFC NoSubs
11 12 20 354 23   -4.2  0.091 -9.000 -9.000 -999.  66.    16.4 0.0310 0.72 1.00 1.50 95.0 15.0 277.9 2.0 0 0.00 79. 1008. 2 NAD-SFC NoSubs
11 12 20 354 24   -4.4  0.095 -9.000 -9.000 -999.  70.    17.1 0.0400 0.72 1.00 1.50 80.0 15.0 277.2 2.0 0 0.00 83. 1008. 2 NAD-SFC NoSubs
11 12 21 355  1   -2.7  0.084 -9.000 -9.000 -999.  58.    19.1 0.0650 0.72 1.00 1.00 52.0 15.0 276.8 2.0 0 0.00 85. 1008. 2 NAD-SFC NoSubs
11 12 21 355  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00 0.0 15.0 276.8 2.0 0 0.00 85. 1008. 2 NAD-SFC NoSubs
11 12 21 355  3   -3.0  0.087 -9.000 -9.000 -999.  62.    20.0 0.0950 0.72 1.00 1.00 348.0 15.0 276.8 2.0 0 0.00 84. 1008. 2 NAD-SFC NoSubs
11 12 21 355  4   -2.9  0.086 -9.000 -9.000 -999.  60.    19.6 0.0800 0.72 1.00 1.00 326.0 15.0 276.6 2.0 0 0.00 84. 1008. 2 NAD-SFC NoSubs
11 12 21 355  5   -5.3  0.105 -9.000 -9.000 -999.  82.    19.8 0.0800 0.72 1.00 1.50 302.0 15.0 276.1 2.0 0 0.00 85. 1009. 2 NAD-SFC NoSubs
11 12 21 355  6   -5.3  0.105 -9.000 -9.000 -999.  82.    19.8 0.0800 0.72 1.00 1.50 304.0 15.0 275.8 2.0 0 0.00 85. 1009. 2 NAD-SFC NoSubs
11 12 21 355  7   -2.5  0.080 -9.000 -9.000 -999.  54.    18.1 0.0420 0.72 1.00 1.00 298.0 15.0 275.4 2.0 0 0.00 86. 1009. 2 NAD-SFC NoSubs
11 12 21 355  8   -1.0  0.065 -9.000 -9.000 -999.  40.    26.4 0.0420 0.72 0.59 0.50 290.0 15.0 275.2 2.0 0 0.00 87. 1009. 2 NAD-SFC NoSubs
11 12 21 355  9   16.5 -9.000 -9.000 -9.000  51. -999. -99999.0 0.0471 0.72 0.33 0.00 0.0 15.0 276.5 2.0 0 0.00 81. 1009. 2 NAD-SFC NoSubs
11 12 21 355 10   55.9 -9.000 -9.000 -9.000 151. -999. -99999.0 0.0471 0.72 0.25 0.00 0.0 15.0 278.9 2.0 0 0.00 71. 1009. 2 NAD-SFC NoSubs
11 12 21 355 11   83.8 -9.000 -9.000 -9.000 292. -999. -99999.0 0.0471 0.72 0.22 0.00 0.0 15.0 280.8 2.0 0 0.00 65. 1009. 2 NAD-SFC NoSubs
11 12 21 355 12   97.7 -9.000 -9.000 -9.000 411. -999. -99999.0 0.0471 0.72 0.21 0.00 0.0 15.0 282.5 2.0 0 0.00 57. 1008. 2 NAD-SFC NoSubs
11 12 21 355 13   96.9  0.076  1.113  0.008 512.  50.    -1.0 0.0420 0.72 0.21 0.50 283.0 15.0 283.5 2.0 0 0.00 54. 1007. 2 NAD-SFC NoSubs
11 12 21 355 14   81.4  0.074  1.098  0.008 583.  49.    -1.0 0.0420 0.72 0.22 0.50 295.0 15.0 284.1 2.0 0 0.00 52. 1007. 2 NAD-SFC NoSubs
11 12 21 355 15   52.1  0.122  0.968  0.008 625. 102.    -3.1 0.0800 0.72 0.26 1.00 321.0 15.0 284.5 2.0 0 0.00 51. 1007. 2 NAD-SFC NoSubs
11 12 21 355 16   12.2  0.108  0.600  0.008 635.  85.    -9.2 0.0950 0.72 0.36 1.00 342.0 15.0 285.4 2.0 0 0.00 47. 1007. 2 NAD-SFC NoSubs
11 12 21 355 17   -2.8  0.085 -9.000 -9.000 -999.  60.    19.8 0.0960 0.72 0.65 1.00 19.0 15.0 284.6 2.0 0 0.00 51. 1007. 2 NAD-SFC NoSubs
11 12 21 355 18   -2.7  0.083 -9.000 -9.000 -999.  57.    19.0 0.0650 0.72 1.00 1.00 54.0 15.0 283.5 2.0 0 0.00 56. 1007. 2 NAD-SFC NoSubs
11 12 21 355 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00 0.0 15.0 282.2 2.0 0 0.00 62. 1008. 2 NAD-SFC NoSubs
11 12 21 355 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00 0.0 15.0 281.2 2.0 0 0.00 68. 1008. 2 NAD-SFC NoSubs
11 12 21 355 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00 0.0 15.0 280.2 2.0 0 0.00 73. 1009. 2 NAD-SFC NoSubs
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11 12 21 355 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 279.4 2.0 0 0.00 78. 1010. 2 NAD-SFC NoSubs
11 12 21 355 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 278.6 2.0 0 0.00 82. 1010. 2 NAD-SFC NoSubs
11 12 21 355 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 278.0 2.0 0 0.00 84. 1011. 2 NAD-SFC NoSubs
11 12 22 356  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 277.6 2.0 0 0.00 84. 1011. 2 NAD-SFC NoSubs
11 12 22 356  2   -1.0  0.065 -9.000 -9.000 -999.  40.    26.0 0.0200 0.72 1.00 0.50 243.0 15.0 277.2 2.0 0 0.00 85. 1012. 2 NAD-SFC NoSubs
11 12 22 356  3   -2.2  0.074 -9.000 -9.000 -999.  48.    16.7 0.0200 0.72 1.00 1.00 248.0 15.0 277.1 2.0 0 0.00 84. 1013. 2 NAD-SFC NoSubs
11 12 22 356  4   -3.8  0.086 -9.000 -9.000 -999.  61.    15.2 0.0200 0.72 1.00 1.50 262.0 15.0 276.9 2.0 0 0.00 83. 1013. 2 NAD-SFC NoSubs
11 12 22 356  5  -10.9  0.142 -9.000 -9.000 -999. 128.    23.5 0.0200 0.72 1.00 2.60 260.0 15.0 276.8 2.0 0 0.00 79. 1014. 2 NAD-SFC NoSubs
11 12 22 356  6  -15.8  0.172 -9.000 -9.000 -999. 170.    28.9 0.0200 0.72 1.00 3.10 262.0 15.0 276.4 2.0 0 0.00 71. 1015. 2 NAD-SFC NoSubs
11 12 22 356  7  -21.6  0.202 -9.000 -9.000 -999. 217.    34.3 0.0200 0.72 1.00 3.60 255.0 15.0 276.0 2.0 0 0.00 65. 1016. 2 NAD-SFC NoSubs
11 12 22 356  8  -19.9  0.202 -9.000 -9.000 -999. 219.    37.8 0.0200 0.72 0.59 3.60 250.0 15.0 275.8 2.0 0 0.00 61. 1017. 2 NAD-SFC NoSubs
11 12 22 356  9   16.2  0.230  0.301  0.008   61. 265.   -68.2 0.0420 0.72 0.34 3.10 272.0 15.0 277.1 2.0 0 0.00 55. 1017. 2 NAD-SFC NoSubs
11 12 22 356 10   55.7  0.222  0.626  0.008  160. 251.   -17.8 0.0200 0.72 0.25 3.10 266.0 15.0 279.2 2.0 0 0.00 45. 1018. 2 NAD-SFC NoSubs
11 12 22 356 11   83.7  0.287  0.873  0.008  289. 369.   -25.6 0.0420 0.72 0.22 3.60 275.0 15.0 281.5 2.0 0 0.00 38. 1018. 2 NAD-SFC NoSubs
11 12 22 356 12   97.8  0.202  1.033  0.008  410. 221.    -7.6 0.0200 0.72 0.21 2.60 266.0 15.0 283.2 2.0 0 0.00 34. 1017. 2 NAD-SFC NoSubs
11 12 22 356 13   97.1  0.226  1.114  0.008  516. 258.   -10.8 0.0420 0.72 0.21 2.60 292.0 15.0 284.4 2.0 0 0.00 33. 1017. 2 NAD-SFC NoSubs
11 12 22 356 14   81.9  0.248  1.101  0.008  592. 296.   -16.9 0.0800 0.72 0.22 2.60 314.0 15.0 285.2 2.0 0 0.00 32. 1017. 2 NAD-SFC NoSubs
11 12 22 356 15   52.7  0.239  0.974  0.007  635. 281.   -23.6 0.0800 0.72 0.26 2.60 320.0 15.0 285.6 2.0 0 0.00 32. 1017. 2 NAD-SFC NoSubs
11 12 22 356 16   12.4  0.188  0.605  0.007  645. 197.   -48.8 0.0960 0.72 0.35 2.10   4.0 15.0 285.2 2.0 0 0.00 38. 1017. 2 NAD-SFC NoSubs
11 12 22 356 17   -2.6  0.081 -9.000 -9.000 -999.  63.    18.8 0.0650 0.72 0.64 1.00  55.0 15.0 284.2 2.0 0 0.00 42. 1018. 2 NAD-SFC NoSubs
11 12 22 356 18   -2.3  0.076 -9.000 -9.000 -999.  50.    17.2 0.0280 0.72 1.00 1.00 145.0 15.0 282.8 2.0 0 0.00 49. 1019. 2 NAD-SFC NoSubs
11 12 22 356 19   -3.9  0.087 -9.000 -9.000 -999.  62.    15.4 0.0220 0.72 1.00 1.50 196.0 15.0 281.4 2.0 0 0.00 55. 1019. 2 NAD-SFC NoSubs
11 12 22 356 20  -22.0  0.205 -9.000 -9.000 -999. 222.    35.4 0.0220 0.72 1.00 3.60 226.0 15.0 280.8 2.0 0 0.00 56. 1020. 2 NAD-SFC NoSubs
11 12 22 356 21  -26.4  0.235 -9.000 -9.000 -999. 273.    44.7 0.0220 0.72 1.00 4.10 238.0 15.0 280.0 2.0 0 0.00 54. 1021. 2 NAD-SFC NoSubs
11 12 22 356 22  -21.6  0.202 -9.000 -9.000 -999. 218.    34.5 0.0200 0.72 1.00 3.60 247.0 15.0 279.2 2.0 0 0.00 50. 1022. 2 NAD-SFC NoSubs
11 12 22 356 23  -21.7  0.202 -9.000 -9.000 -999. 217.    34.5 0.0200 0.72 1.00 3.60 247.0 15.0 278.5 2.0 0 0.00 48. 1022. 2 NAD-SFC NoSubs
11 12 22 356 24  -26.3  0.231 -9.000 -9.000 -999. 267.    43.0 0.0200 0.72 1.00 4.10 248.0 15.0 277.9 2.0 0 0.00 47. 1023. 2 NAD-SFC NoSubs
11 12 23 357  1  -29.7  0.261 -9.000 -9.000 -999. 320.    54.7 0.0200 0.72 1.00 4.60 249.0 15.0 277.2 2.0 0 0.00 48. 1023. 2 NAD-SFC NoSubs
11 12 23 357  2  -26.4  0.231 -9.000 -9.000 -999. 267.    42.8 0.0200 0.72 1.00 4.10 250.0 15.0 276.5 2.0 0 0.00 49. 1024. 2 NAD-SFC NoSubs
11 12 23 357  3  -26.5  0.231 -9.000 -9.000 -999. 267.    42.7 0.0200 0.72 1.00 4.10 249.0 15.0 275.9 2.0 0 0.00 49. 1024. 2 NAD-SFC NoSubs
11 12 23 357  4  -21.8  0.201 -9.000 -9.000 -999. 217.    34.2 0.0200 0.72 1.00 3.60 250.0 15.0 275.5 2.0 0 0.00 48. 1024. 2 NAD-SFC NoSubs
11 12 23 357  5  -26.6  0.231 -9.000 -9.000 -999. 267.    42.6 0.0200 0.72 1.00 4.10 247.0 15.0 275.1 2.0 0 0.00 47. 1025. 2 NAD-SFC NoSubs
11 12 23 357  6  -26.6  0.231 -9.000 -9.000 -999. 267.    42.5 0.0200 0.72 1.00 4.10 251.0 15.0 274.8 2.0 0 0.00 45. 1025. 2 NAD-SFC NoSubs
11 12 23 357  7  -26.7  0.231 -9.000 -9.000 -999. 267.    42.5 0.0200 0.72 1.00 4.10 259.0 15.0 274.4 2.0 0 0.00 45. 1025. 2 NAD-SFC NoSubs
11 12 23 357  8  -20.3  0.202 -9.000 -9.000 -999. 219.    37.3 0.0200 0.72 0.59 3.60 247.0 15.0 274.2 2.0 0 0.00 45. 1026. 2 NAD-SFC NoSubs
11 12 23 357  9   15.7  0.198  0.314  0.014   72. 211.   -45.3 0.0420 0.72 0.34 2.60 275.0 15.0 275.2 2.0 0 0.00 44. 1026. 2 NAD-SFC NoSubs
11 12 23 357 10   55.0  0.144  0.682  0.014  211. 132.    -5.0 0.0420 0.72 0.25 1.50 290.0 15.0 276.8 2.0 0 0.00 38. 1026. 2 NAD-SFC NoSubs
11 12 23 357 11   83.0  0.074  0.870  0.013  290.  50.    -1.0 0.0420 0.72 0.22 0.50 272.0 15.0 278.4 2.0 0 0.00 36. 1026. 2 NAD-SFC NoSubs
11 12 23 357 12   97.0  0.076  0.987  0.012  362.  50.    -1.0 0.0420 0.72 0.21 0.50 285.0 15.0 279.8 2.0 0 0.00 34. 1025. 2 NAD-SFC NoSubs
11 12 23 357 13   96.4  0.117  1.043  0.011  430.  96.    -1.5 0.0420 0.72 0.21 1.00 289.0 15.0 280.6 2.0 0 0.00 35. 1024. 2 NAD-SFC NoSubs
11 12 23 357 14   81.1  0.114  1.024  0.011  484.  93.    -1.7 0.0420 0.72 0.22 1.00 296.0 15.0 281.2 2.0 0 0.00 35. 1024. 2 NAD-SFC NoSubs
11 12 23 357 15   52.0  0.121  0.902  0.010  515. 102.    -3.1 0.0800 0.72 0.26 1.00 310.0 15.0 281.4 2.0 0 0.00 36. 1024. 2 NAD-SFC NoSubs
11 12 23 357 16   11.9  0.104  0.554  0.010  522.  80.    -8.6 0.0800 0.72 0.35 1.00 318.0 15.0 281.2 2.0 0 0.00 40. 1023. 2 NAD-SFC NoSubs
11 12 23 357 17   -1.2  0.072 -9.000 -9.000 -999.  46.    28.7 0.0800 0.72 0.64 0.50 328.0 15.0 280.5 2.0 0 0.00 44. 1023. 2 NAD-SFC NoSubs
11 12 23 357 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 279.2 2.0 0 0.00 49. 1023. 2 NAD-SFC NoSubs
11 12 23 357 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 278.2 2.0 0 0.00 55. 1023. 2 NAD-SFC NoSubs
11 12 23 357 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 277.2 2.0 0 0.00 60. 1023. 2 NAD-SFC NoSubs
11 12 23 357 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 276.2 2.0 0 0.00 65. 1024. 2 NAD-SFC NoSubs
11 12 23 357 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 275.6 2.0 0 0.00 68. 1024. 2 NAD-SFC NoSubs
11 12 23 357 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 275.1 2.0 0 0.00 70. 1024. 2 NAD-SFC NoSubs
11 12 23 357 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 274.6 2.0 0 0.00 72. 1024. 2 NAD-SFC NoSubs
11 12 24 358  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 274.1 2.0 0 0.00 73. 1024. 2 NAD-SFC NoSubs
11 12 24 358  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 273.8 2.0 0 0.00 74. 1024. 2 NAD-SFC NoSubs
11 12 24 358  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 273.4 2.0 0 0.00 74. 1024. 2 NAD-SFC NoSubs
11 12 24 358  4   -1.1  0.070 -9.000 -9.000 -999.  45.    27.9 0.0420 0.72 1.00 0.50 274.0 15.0 273.1 2.0 0 0.00 74. 1023. 2 NAD-SFC NoSubs
11 12 24 358  5   -1.1  0.070 -9.000 -9.000 -999.  45.    28.0 0.0420 0.72 1.00 0.50 275.0 15.0 272.9 2.0 0 0.00 73. 1023. 2 NAD-SFC NoSubs
11 12 24 358  6   -2.6  0.080 -9.000 -9.000 -999.  54.    18.2 0.0420 0.72 1.00 1.00 282.0 15.0 272.8 2.0 0 0.00 71. 1023. 2 NAD-SFC NoSubs
11 12 24 358  7   -1.1  0.070 -9.000 -9.000 -999.  45.    28.0 0.0420 0.72 1.00 0.50 287.0 15.0 272.8 2.0 0 0.00 69. 1023. 2 NAD-SFC NoSubs
11 12 24 358  8   -1.0  0.066 -9.000 -9.000 -999.  41.    26.7 0.0420 0.72 0.60 0.50 292.0 15.0 272.6 2.0 0 0.00 67. 1023. 2 NAD-SFC NoSubs
11 12 24 358  9   15.2 -9.000 -9.000 -9.000   46. -999. -99999.0 0.0471 0.72 0.34 0.00   0.0 15.0 273.8 2.0 0 0.00 64. 1023. 2 NAD-SFC NoSubs
11 12 24 358 10   54.9  0.122  0.577  0.013  128.  103.    -3.0 0.0800 0.72 0.25 1.00 304.0 15.0 277.2 2.0 0 0.00 47. 1023. 2 NAD-SFC NoSubs
11 12 24 358 11   83.0  0.084  0.822  0.013  244.  58.    -1.0 0.0800 0.72 0.22 0.50 318.0 15.0 279.2 2.0 0 0.00 44. 1022. 2 NAD-SFC NoSubs
11 12 24 358 12   97.3  0.089  0.987  0.014  361.  63.    -1.0 0.0950 0.72 0.21 0.50 343.0 15.0 281.1 2.0 0 0.00 40. 1022. 2 NAD-SFC NoSubs
11 12 24 358 13   96.9  0.135  1.053  0.014  438. 119.    -2.3 0.0950 0.72 0.21 1.00 337.0 15.0 282.6 2.0 0 0.00 36. 1021. 2 NAD-SFC NoSubs
11 12 24 358 14   81.8  0.133  1.034  0.014  491. 116.    -2.6 0.0950 0.72 0.22 1.00 347.0 15.0 283.5 2.0 0 0.00 34. 1020. 2 NAD-SFC NoSubs
11 12 24 358 15   52.8  0.165  0.912  0.013  522. 161.    -7.8 0.0960 0.72 0.26 1.50   5.0 15.0 283.8 2.0 0 0.00 35. 1020. 2 NAD-SFC NoSubs
11 12 24 358 16   12.7  0.136  0.570  0.013  529. 120.   -17.9 0.0650 0.72 0.35 1.50  34.0 15.0 283.4 2.0 0 0.00 39. 1020. 2 NAD-SFC NoSubs
11 12 24 358 17   -9.3  0.139 -9.000 -9.000 -999. 124.    26.4 0.0650 0.72 0.64 2.10  49.0 15.0 282.5 2.0 0 0.00 42. 1019. 2 NAD-SFC NoSubs
11 12 24 358 18   -2.5  0.079 -9.000 -9.000 -999.  54.    17.9 0.0400 0.72 1.00 1.00  66.0 15.0 281.2 2.0 0 0.00 47. 1019. 2 NAD-SFC NoSubs
11 12 24 358 19   -4.1  0.090 -9.000 -9.000 -999.  65.    16.1 0.0280 0.72 1.00 1.50 125.0 15.0 280.0 2.0 0 0.00 52. 1019. 2 NAD-SFC NoSubs
11 12 24 358 20  -12.2  0.152 -9.000 -9.000 -999. 143.    26.3 0.0310 0.72 1.00 2.60 117.0 15.0 279.4 2.0 0 0.00 54. 1019. 2 NAD-SFC NoSubs
11 12 24 358 21  -31.6  0.280 -9.000 -9.000 -999. 356.    63.4 0.0310 0.72 1.00 4.60 100.0 15.0 279.0 2.0 0 0.00 55. 1019. 2 NAD-SFC NoSubs
11 12 24 358 22  -29.3  0.260 -9.000 -9.000 -999. 318.    54.3 0.0400 0.72 1.00 4.10  85.0 15.0 278.8 2.0 0 0.00 54. 1019. 2 NAD-SFC NoSubs
11 12 24 358 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471 0.72 1.00 0.00   0.0 15.0 277.8 2.0 0 0.00 59. 1020. 2 NAD-SFC NoSubs
11 12 24 358 24  -30.4  0.267 -9.000 -9.000 -999. 332.    57.2 0.0950 0.72 1.00 3.60 343.0 15.0 276.6 2.0 0 0.00 66. 1020. 2 NAD-SFC NoSubs
11 12 25 359  1  -30.5  0.267 -9.000 -9.000 -999. 332.    57.1 0.0950 0.72 1.00 3.60 350.0 15.0 276.0 2.0 0 0.00 70. 1020. 2 NAD-SFC NoSubs
11 12 25 359  2  -17.1  0.189 -9.000 -9.000 -999. 199.    35.8 0.0950 0.72 1.00 2.60 347.0 15.0 275.6 2.0 0 0.00 72. 1020. 2 NAD-SFC NoSubs
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11 12 25 359  3   -5.7  0.109 -9.000 -9.000 -999.   88.     20.6  0.0950  0.72  1.00  1.50  340.0  15.0  275.2  2.0   0   0.00   72.  1021.    2 NAD-SFC NoSubs
11 12 25 359  4   -2.6  0.080 -9.000 -9.000 -999.   54.     18.1  0.0420  0.72  1.00  1.00  290.0  15.0  274.9  2.0   0   0.00   73.  1021.    2 NAD-SFC NoSubs
11 12 25 359  5   -1.0  0.066 -9.000 -9.000 -999.   40.     26.1  0.0200  0.72  1.00  0.50  259.0  15.0  274.8  2.0   0   0.00   72.  1021.    2 NAD-SFC NoSubs
11 12 25 359  6   -1.1  0.068 -9.000 -9.000 -999.   43.     27.2  0.0310  0.72  1.00  0.50   91.0  15.0  274.4  2.0   0   0.00   72.  1020.    2 NAD-SFC NoSubs
11 12 25 359  7   -2.5  0.080 -9.000 -9.000 -999.   54.     18.0  0.0400  0.72  1.00  1.00   79.0  15.0  274.0  2.0   0   0.00   74.  1020.    2 NAD-SFC NoSubs
11 12 25 359  8   -1.1  0.069 -9.000 -9.000 -999.   44.     27.8  0.0650  0.72  0.60  0.50   47.0  15.0  273.6  2.0   0   0.00   75.  1020.    2 NAD-SFC NoSubs
11 12 25 359  9   15.0 -9.000 -9.000 -9.000   42. -999. -99999.0  0.0471  0.72  0.34  0.00    0.0  15.0  274.6  2.0   0   0.00   74.  1020.    2 NAD-SFC NoSubs
11 12 25 359 10   54.8 -9.000 -9.000 -9.000  108. -999. -99999.0  0.0471  0.72  0.25  0.00    0.0  15.0  278.5  2.0   0   0.00   58.  1020.    2 NAD-SFC NoSubs
11 12 25 359 11   83.2  0.129  0.788  0.014  214.  111.     -2.3  0.0800  0.72  0.22  1.00  306.0  15.0  281.1  2.0   0   0.00   47.  1019.    2 NAD-SFC NoSubs
11 12 25 359 12   97.6  0.135  0.944  0.013  313.  119.     -2.3  0.0950  0.72  0.21  1.00  334.0  15.0  282.8  2.0   0   0.00   44.  1018.    2 NAD-SFC NoSubs
11 12 25 359 13   97.3  0.089  1.014  0.011  389.   64.     -1.0  0.0950  0.72  0.21  0.50  330.0  15.0  284.1  2.0   0   0.00   41.  1017.    2 NAD-SFC NoSubs
11 12 25 359 14   82.5  0.084  1.002  0.011  442.   58.     -1.0  0.0800  0.72  0.22  0.50  329.0  15.0  285.2  2.0   0   0.00   38.  1017.    2 NAD-SFC NoSubs
11 12 25 359 15   53.6  0.126  0.888  0.010  474.  107.     -3.4  0.0950  0.72  0.25  1.00  340.0  15.0  285.6  2.0   0   0.00   37.  1016.    2 NAD-SFC NoSubs
11 12 25 359 16   13.6  0.069  0.565  0.010  481.   44.     -2.2  0.0960  0.72  0.35  0.50   13.0  15.0  285.4  2.0   0   0.00   41.  1016.    2 NAD-SFC NoSubs
11 12 25 359 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.63  0.00    0.0  15.0  284.2  2.0   0   0.00   47.  1015.    2 NAD-SFC NoSubs
11 12 25 359 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  282.6  2.0   0   0.00   53.  1015.    2 NAD-SFC NoSubs
11 12 25 359 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  281.2  2.0   0   0.00   60.  1015.    2 NAD-SFC NoSubs
11 12 25 359 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  280.0  2.0   0   0.00   65.  1014.    2 NAD-SFC NoSubs
11 12 25 359 21   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0400  0.72  1.00  0.50   67.0  15.0  278.9  2.0   0   0.00   70.  1014.    2 NAD-SFC NoSubs
11 12 25 359 22   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0400  0.72  1.00  0.50   77.0  15.0  278.0  2.0   0   0.00   74.  1014.    2 NAD-SFC NoSubs
11 12 25 359 23   -1.1  0.069 -9.000 -9.000 -999.   44.     27.7  0.0400  0.72  1.00  0.50   87.0  15.0  277.4  2.0   0   0.00   76.  1014.    2 NAD-SFC NoSubs
11 12 25 359 24   -1.0  0.068 -9.000 -9.000 -999.   42.     27.1  0.0310  0.72  1.00  0.50   90.0  15.0  276.8  2.0   0   0.00   78.  1014.    2 NAD-SFC NoSubs
11 12 26 360  1   -1.1  0.070 -9.000 -9.000 -999.   44.     27.7  0.0400  0.72  1.00  0.50   76.0  15.0  276.4  2.0   0   0.00   80.  1014.    2 NAD-SFC NoSubs
11 12 26 360  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  276.0  2.0   0   0.00   81.  1014.    2 NAD-SFC NoSubs
11 12 26 360  3 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  275.8  2.0   0   0.00   82.  1014.    2 NAD-SFC NoSubs
11 12 26 360  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  275.6  2.0   0   0.00   82.  1014.    2 NAD-SFC NoSubs
11 12 26 360  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  275.2  2.0   0   0.00   82.  1014.    2 NAD-SFC NoSubs
11 12 26 360  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  275.0  2.0   0   0.00   81.  1015.    2 NAD-SFC NoSubs
11 12 26 360  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  274.8  2.0   0   0.00   81.  1015.    2 NAD-SFC NoSubs
11 12 26 360  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.60  0.00    0.0  15.0  274.6  2.0   0   0.00   79.  1015.    2 NAD-SFC NoSubs
11 12 26 360  9   14.9 -9.000 -9.000 -9.000   37. -999. -99999.0  0.0471  0.72  0.34  0.00    0.0  15.0  275.8  2.0   0   0.00   74.  1016.    2 NAD-SFC NoSubs
11 12 26 360 10   54.8  0.122  0.546  0.014  107.  103.     -3.0  0.0800  0.72  0.25  1.00  314.0  15.0  279.6  2.0   0   0.00   55.  1016.    2 NAD-SFC NoSubs
11 12 26 360 11   83.2  0.115  0.781  0.012  207.   93.     -1.6  0.0420  0.72  0.22  1.00  297.0  15.0  281.4  2.0   0   0.00   52.  1016.    2 NAD-SFC NoSubs
11 12 26 360 12   97.7  0.076  0.938  0.011  306.   50.     -1.0  0.0420  0.72  0.21  0.50  298.0  15.0  283.1  2.0   0   0.00   48.  1015.    2 NAD-SFC NoSubs
11 12 26 360 13   97.6  0.131  1.008  0.010  380.  114.     -2.1  0.0800  0.72  0.21  1.00  309.0  15.0  284.8  2.0   0   0.00   41.  1015.    2 NAD-SFC NoSubs
11 12 26 360 14   82.8  0.168  1.016  0.010  458.  165.     -5.2  0.0800  0.72  0.22  1.50  317.0  15.0  285.5  2.0   0   0.00   38.  1014.    2 NAD-SFC NoSubs
11 12 26 360 15   54.0  0.210  0.910  0.010  505.  232.    -15.6  0.0950  0.72  0.25  2.10  333.0  15.0  285.8  2.0   0   0.00   38.  1014.    2 NAD-SFC NoSubs
11 12 26 360 16   14.5  0.184  0.592  0.010  519.  190.    -39.1  0.0800  0.72  0.35  2.10  328.0  15.0  287.2  2.0   0   0.00   45.  1014.    2 NAD-SFC NoSubs
11 12 26 360 17   -2.6  0.082 -9.000 -9.000 -999.   62.     19.2  0.0800  0.72  0.63  1.00  328.0  15.0  286.5  2.0   0   0.00   48.  1014.    2 NAD-SFC NoSubs
11 12 26 360 18   -1.2  0.073 -9.000 -9.000 -999.   48.     29.2  0.0800  0.72  1.00  0.50  302.0  15.0  285.5  2.0   0   0.00   52.  1014.    2 NAD-SFC NoSubs
11 12 26 360 19   -1.2  0.073 -9.000 -9.000 -999.   48.     29.2  0.0800  0.72  1.00  0.50  312.0  15.0  284.5  2.0   0   0.00   55.  1014.    2 NAD-SFC NoSubs
11 12 26 360 20   -1.1  0.069 -9.000 -9.000 -999.   44.     27.6  0.0420  0.72  1.00  0.50  292.0  15.0  283.5  2.0   0   0.00   59.  1014.    2 NAD-SFC NoSubs
11 12 26 360 21   -2.5  0.079 -9.000 -9.000 -999.   53.     18.0  0.0420  0.72  1.00  1.00  295.0  15.0  282.6  2.0   0   0.00   63.  1015.    2 NAD-SFC NoSubs
11 12 26 360 22   -5.3  0.105 -9.000 -9.000 -999.   82.     19.9  0.0800  0.72  1.00  1.50  305.0  15.0  282.0  2.0   0   0.00   65.  1015.    2 NAD-SFC NoSubs
11 12 26 360 23  -10.2  0.145 -9.000 -9.000 -999.  132.     26.8  0.0800  0.72  1.00  2.10  323.0  15.0  281.4  2.0   0   0.00   67.  1016.    2 NAD-SFC NoSubs
11 12 26 360 24   -5.3  0.105 -9.000 -9.000 -999.   82.     19.9  0.0800  0.72  1.00  1.50  329.0  15.0  280.8  2.0   0   0.00   71.  1016.    2 NAD-SFC NoSubs
11 12 27 361  1   -3.0  0.087 -9.000 -9.000 -999.   62.     20.0  0.0950  0.72  1.00  1.00  330.0  15.0  280.1  2.0   0   0.00   74.  1016.    2 NAD-SFC NoSubs
11 12 27 361  2   -1.2  0.074 -9.000 -9.000 -999.   48.     29.4  0.0800  0.72  1.00  0.50  312.0  15.0  279.6  2.0   0   0.00   77.  1016.    2 NAD-SFC NoSubs
11 12 27 361  3   -1.2  0.074 -9.000 -9.000 -999.   48.     29.4  0.0800  0.72  1.00  0.50  314.0  15.0  279.1  2.0   0   0.00   80.  1016.    2 NAD-SFC NoSubs
11 12 27 361  4 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  278.5  2.0   0   0.00   84.  1016.    2 NAD-SFC NoSubs
11 12 27 361  5 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  277.9  2.0   0   0.00   87.  1016.    2 NAD-SFC NoSubs
11 12 27 361  6 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  277.2  2.0   0   0.00   91.  1016.    2 NAD-SFC NoSubs
11 12 27 361  7 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  276.8  2.0   0   0.00   93.  1016.    2 NAD-SFC NoSubs
11 12 27 361  8 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  0.60  0.00    0.0  15.0  276.6  2.0   0   0.00   95.  1016.    2 NAD-SFC NoSubs
11 12 27 361  9   15.0 -9.000 -9.000 -9.000   81. -999. -99999.0  0.0471  0.72  0.34  0.00    0.0  15.0  278.1  2.0   0   0.00   89.  1016.    2 NAD-SFC NoSubs
11 12 27 361 10   54.8  0.082  0.678  0.010  205.   56.     -1.0  0.0950  0.72  0.25  0.50  332.0  15.0  280.2  2.0   0   0.00   79.  1015.    2 NAD-SFC NoSubs
11 12 27 361 11   83.3  0.087  0.898  0.010  315.   61.     -1.0  0.0950  0.72  0.22  0.50  331.0  15.0  282.1  2.0   0   0.00   70.  1015.    2 NAD-SFC NoSubs
11 12 27 361 12   97.8  0.086  1.040  0.010  416.   60.     -1.0  0.0800  0.72  0.21  0.50  318.0  15.0  283.2  2.0   0   0.00   63.  1014.    2 NAD-SFC NoSubs
11 12 27 361 13   97.7  0.086  1.125  0.012  527.   60.     -1.0  0.0800  0.72  0.21  0.50  323.0  15.0  284.2  2.0   0   0.00   60.  1014.    2 NAD-SFC NoSubs
11 12 27 361 14   83.0  0.084  1.117  0.013  607.   58.     -1.0  0.0800  0.72  0.22  0.50  322.0  15.0  284.9  2.0   0   0.00   57.  1013.    2 NAD-SFC NoSubs
11 12 27 361 15   54.2  0.126  0.993  0.013  653.  108.     -3.3  0.0950  0.72  0.25  1.00  342.0  15.0  285.2  2.0   0   0.00   55.  1013.    2 NAD-SFC NoSubs
11 12 27 361 16   14.4  0.146  0.641  0.013  662.  134.    -19.7  0.0950  0.72  0.35  1.50  350.0  15.0  285.2  2.0   0   0.00   58.  1013.    2 NAD-SFC NoSubs
11 12 27 361 17   -5.3  0.108 -9.000 -9.000 -999.   85.     21.5  0.0960  0.72  0.62  1.50   16.0  15.0  284.4  2.0   0   0.00   62.  1013.    2 NAD-SFC NoSubs
11 12 27 361 18   -5.0  0.102 -9.000 -9.000 -999.   78.     19.0  0.0650  0.72  1.00  1.50   41.0  15.0  283.2  2.0   0   0.00   67.  1013.    2 NAD-SFC NoSubs
11 12 27 361 19   -1.2  0.072 -9.000 -9.000 -999.   47.     28.7  0.0650  0.72  1.00  0.50   31.0  15.0  282.2  2.0   0   0.00   72.  1013.    2 NAD-SFC NoSubs
11 12 27 361 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  281.2  2.0   0   0.00   77.  1014.    2 NAD-SFC NoSubs
11 12 27 361 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  280.5  2.0   0   0.00   81.  1014.    2 NAD-SFC NoSubs
11 12 27 361 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  279.9  2.0   0   0.00   85.  1014.    2 NAD-SFC NoSubs
11 12 27 361 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  279.2  2.0   0   0.00   88.  1015.    2 NAD-SFC NoSubs
11 12 27 361 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  278.8  2.0   0   0.00   90.  1015.    2 NAD-SFC NoSubs
11 12 28 362  1 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  278.2  2.0   0   0.00   92.  1015.    2 NAD-SFC NoSubs
11 12 28 362  2 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.0471  0.72  1.00  0.00    0.0  15.0  277.9  2.0   0   0.00   93.  1015.    2 NAD-SFC NoSubs
11 12 28 362  3   -1.0  0.068 -9.000 -9.000 -999.   42.     27.0  0.0310  0.72  1.00  0.50   98.0  15.0  277.6  2.0   0   0.00   93.  1015.    2 NAD-SFC NoSubs
11 12 28 362  4   -2.4  0.077 -9.000 -9.000 -999.   51.     17.5  0.0310  0.72  1.00  1.00  108.0  15.0  277.4  2.0   0   0.00   92.  1015.    2 NAD-SFC NoSubs
11 12 28 362  5   -2.3  0.076 -9.000 -9.000 -999.   51.     17.3  0.0280  0.72  1.00  1.00  124.0  15.0  277.2  2.0   0   0.00   91.  1015.    2 NAD-SFC NoSubs
11 12 28 362  6   -4.1  0.090 -9.000 -9.000 -999.   65.     16.1  0.0280  0.72  1.00  1.50  126.0  15.0  277.2  2.0   0   0.00   91.  1015.    2 NAD-SFC NoSubs
11 12 28 362  7   -4.1  0.090 -9.000 -9.000 -999.   65.     16.1  0.0280  0.72  1.00  1.50  133.0  15.0  277.1  2.0   0   0.00   91.  1015.    2 NAD-SFC NoSubs
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11	12	28	362	8	-3.9	0.090	-9.000	-9.000	-999.	65.	16.7	0.0310	0.72	0.61	1.50	116.0	15.0	276.6	2.0	0	0.00	94.	1015.	2	NAD-SFC	NoSubs
11	12	28	362	9	14.7	0.057	0.269	0.016	48.	33.	-1.1	0.0310	0.72	0.34	0.50	103.0	15.0	277.8	2.0	0	0.00	90.	1015.	2	NAD-SFC	NoSubs
11	12	28	362	10	54.9	-9.000	-9.000	-9.000	153.	-999.	-99999.0	0.0471	0.72	0.25	0.00	0.0	15.0	281.2	2.0	0	0.00	69.	1015.	2	NAD-SFC	NoSubs
11	12	28	362	11	83.7	-9.000	-9.000	-9.000	297.	-999.	-99999.0	0.0471	0.72	0.22	0.00	0.0	15.0	283.8	2.0	0	0.00	57.	1014.	2	NAD-SFC	NoSubs
11	12	28	362	12	98.5	-9.000	-9.000	-9.000	404.	-999.	-99999.0	0.0471	0.72	0.21	0.00	0.0	15.0	285.6	2.0	0	0.00	52.	1014.	2	NAD-SFC	NoSubs
11	12	28	362	13	98.6	0.086	1.077	0.017	458.	60.	-1.0	0.0800	0.72	0.21	0.50	316.0	15.0	286.9	2.0	0	0.00	47.	1013.	2	NAD-SFC	NoSubs
11	12	28	362	14	84.0	0.133	1.051	0.016	499.	117.	-2.5	0.0950	0.72	0.22	1.00	332.0	15.0	287.6	2.0	0	0.00	46.	1013.	2	NAD-SFC	NoSubs
11	12	28	362	15	55.4	0.166	0.930	0.016	525.	162.	-7.5	0.0950	0.72	0.25	1.50	336.0	15.0	287.9	2.0	0	0.00	46.	1013.	2	NAD-SFC	NoSubs
11	12	28	362	16	15.5	0.148	0.611	0.016	531.	136.	-18.7	0.0960	0.72	0.35	1.50	10.0	15.0	287.6	2.0	0	0.00	49.	1013.	2	NAD-SFC	NoSubs
11	12	28	362	17	-2.5	0.080	-9.000	-9.000	-999.	55.	18.6	0.0650	0.72	0.62	1.00	35.0	15.0	286.8	2.0	0	0.00	53.	1013.	2	NAD-SFC	NoSubs
11	12	28	362	18	-1.1	0.069	-9.000	-9.000	-999.	43.	27.4	0.0400	0.72	1.00	0.50	81.0	15.0	285.6	2.0	0	0.00	59.	1013.	2	NAD-SFC	NoSubs
11	12	28	362	19	-2.3	0.076	-9.000	-9.000	-999.	50.	17.2	0.0280	0.72	1.00	1.00	144.0	15.0	284.5	2.0	0	0.00	64.	1013.	2	NAD-SFC	NoSubs
11	12	28	362	20	-4.1	0.090	-9.000	-9.000	-999.	65.	16.1	0.0280	0.72	1.00	1.50	138.0	15.0	283.8	2.0	0	0.00	68.	1013.	2	NAD-SFC	NoSubs
11	12	28	362	21	-2.3	0.076	-9.000	-9.000	-999.	50.	17.2	0.0280	0.72	1.00	1.00	126.0	15.0	283.0	2.0	0	0.00	72.	1013.	2	NAD-SFC	NoSubs
11	12	28	362	22	-2.3	0.077	-9.000	-9.000	-999.	51.	17.4	0.0310	0.72	1.00	1.00	106.0	15.0	282.4	2.0	0	0.00	75.	1013.	2	NAD-SFC	NoSubs
11	12	28	362	23	-2.3	0.077	-9.000	-9.000	-999.	51.	17.4	0.0310	0.72	1.00	1.00	104.0	15.0	281.8	2.0	0	0.00	78.	1013.	2	NAD-SFC	NoSubs
11	12	28	362	24	-1.1	0.068	-9.000	-9.000	-999.	43.	27.3	0.0400	0.72	1.00	0.50	88.0	15.0	281.2	2.0	0	0.00	80.	1012.	3	NAD-SFC	NoSubs
11	12	29	363	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	280.9	2.0	0	0.00	82.	1012.	3	NAD-SFC	NoSubs
11	12	29	363	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	280.5	2.0	0	0.00	84.	1011.	3	NAD-SFC	NoSubs
11	12	29	363	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	280.2	2.0	0	0.00	85.	1011.	3	NAD-SFC	NoSubs
11	12	29	363	4	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	279.9	2.0	0	0.00	86.	1011.	3	NAD-SFC	NoSubs
11	12	29	363	5	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	279.8	2.0	0	0.00	87.	1010.	3	NAD-SFC	NoSubs
11	12	29	363	6	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	279.5	2.0	0	0.00	87.	1010.	3	NAD-SFC	NoSubs
11	12	29	363	7	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	279.2	2.0	0	0.00	88.	1010.	3	NAD-SFC	NoSubs
11	12	29	363	8	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	0.61	0.00	0.0	15.0	279.2	2.0	0	0.00	88.	1010.	3	NAD-SFC	NoSubs
11	12	29	363	9	16.7	0.070	0.282	0.014	48.	45.	-1.9	0.0950	0.72	0.34	0.50	341.0	15.0	281.0	2.0	0	0.00	80.	1010.	3	NAD-SFC	NoSubs
11	12	29	363	10	56.5	0.127	0.612	0.011	146.	108.	-3.3	0.0950	0.72	0.25	1.00	332.0	15.0	283.2	2.0	0	0.00	74.	1010.	3	NAD-SFC	NoSubs
11	12	29	363	11	84.9	0.133	0.882	0.012	291.	117.	-2.5	0.0950	0.72	0.22	1.00	333.0	15.0	284.8	2.0	0	0.00	71.	1010.	3	NAD-SFC	NoSubs
11	12	29	363	12	99.6	0.172	1.045	0.013	412.	170.	-4.6	0.0800	0.72	0.21	1.50	310.0	15.0	286.0	2.0	0	0.00	69.	1010.	3	NAD-SFC	NoSubs
11	12	29	363	13	99.8	0.216	1.114	0.014	499.	242.	-9.1	0.0800	0.72	0.21	2.10	316.0	15.0	287.2	2.0	0	0.00	65.	1009.	3	NAD-SFC	NoSubs
11	12	29	363	14	85.4	0.249	1.101	0.014	562.	298.	-16.2	0.0800	0.72	0.22	2.60	327.0	15.0	287.6	2.0	0	0.00	67.	1008.	3	NAD-SFC	NoSubs
11	12	29	363	15	56.9	0.321	0.982	0.014	600.	436.	-52.1	0.0950	0.72	0.25	3.60	334.0	15.0	287.0	2.0	0	0.00	74.	1008.	3	NAD-SFC	NoSubs
11	12	29	363	16	17.1	0.339	0.662	0.014	609.	473.	-204.7	0.0950	0.72	0.34	4.10	336.0	15.0	285.8	2.0	0	0.00	87.	1008.	3	NAD-SFC	NoSubs
11	12	29	363	17	-21.8	0.229	-9.000	-9.000	-999.	270.	49.9	0.0950	0.72	0.61	3.10	348.0	15.0	284.2	2.0	0	0.00	97.	1008.	3	NAD-SFC	NoSubs
11	12	29	363	18	-16.4	0.189	-9.000	-9.000	-999.	198.	37.0	0.0950	0.72	1.00	2.60	351.0	15.0	283.6	2.0	0	0.00	100.	1008.	3	NAD-SFC	NoSubs
11	12	29	363	19	-5.4	0.108	-9.000	-9.000	-999.	87.	20.9	0.0950	0.72	1.00	1.50	346.0	15.0	283.4	2.0	0	0.00	100.	1009.	3	NAD-SFC	NoSubs
11	12	29	363	20	-2.9	0.086	-9.000	-9.000	-999.	61.	19.9	0.0950	0.72	1.00	1.00	336.0	15.0	283.2	2.0	0	0.00	100.	1009.	3	NAD-SFC	NoSubs
11	12	29	363	21	-1.2	0.073	-9.000	-9.000	-999.	47.	29.0	0.0800	0.72	1.00	0.50	318.0	15.0	283.2	2.0	0	0.00	100.	1009.	3	NAD-SFC	NoSubs
11	12	29	363	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	283.2	2.0	0	0.00	100.	1009.	3	NAD-SFC	NoSubs
11	12	29	363	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	283.2	2.0	0	0.00	100.	1009.	3	NAD-SFC	NoSubs
11	12	29	363	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	283.2	2.0	0	0.00	100.	1009.	3	NAD-SFC	NoSubs
11	12	30	364	1	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	283.0	2.0	0	0.00	100.	1008.	3	NAD-SFC	NoSubs
11	12	30	364	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	282.9	2.0	0	0.00	100.	1008.	3	NAD-SFC	NoSubs
11	12	30	364	3	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	282.8	2.0	0	0.00	100.	1008.	3	NAD-SFC	NoSubs
11	12	30	364	4	-1.0	0.068	-9.000	-9.000	-999.	43.	27.2	0.0400	0.72	1.00	0.50	84.0	15.0	282.5	2.0	0	0.00	100.	1008.	3	NAD-SFC	NoSubs
11	12	30	364	5	-1.0	0.067	-9.000	-9.000	-999.	41.	26.6	0.0310	0.72	1.00	0.50	112.0	15.0	282.4	2.0	0	0.00	100.	1008.	3	NAD-SFC	NoSubs
11	12	30	364	6	-1.0	0.066	-9.000	-9.000	-999.	41.	26.4	0.0280	0.72	1.00	0.50	127.0	15.0	282.4	2.0	0	0.00	100.	1008.	3	NAD-SFC	NoSubs
11	12	30	364	7	-2.2	0.075	-9.000	-9.000	-999.	49.	17.1	0.0280	0.72	1.00	1.00	136.0	15.0	282.4	2.0	0	0.00	100.	1008.	3	NAD-SFC	NoSubs
11	12	30	364	8	-2.0	0.072	-9.000	-9.000	-999.	46.	16.7	0.0280	0.72	0.61	1.00	139.0	15.0	282.4	2.0	0	0.00	100.	1008.	3	NAD-SFC	NoSubs
11	12	30	364	9	16.9	0.091	0.464	0.018	212.	65.	-4.0	0.0280	0.72	0.34	1.00	129.0	15.0	282.5	2.0	0	0.00	100.	1009.	3	NAD-SFC	NoSubs
11	12	30	364	10	56.3	0.132	0.723	0.017	242.	116.	-3.7	0.0240	0.72	0.25	1.50	154.0	15.0	282.5	2.0	0	0.00	100.	1009.	3	NAD-SFC	NoSubs
11	12	30	364	11	84.6	0.105	0.870	0.016	280.	81.	-1.2	0.0240	0.72	0.22	1.00	154.0	15.0	282.8	2.0	0	0.00	100.	1009.	3	NAD-SFC	NoSubs
11	12	30	364	12	99.1	0.072	0.959	0.014	320.	47.	-1.0	0.0310	0.72	0.21	0.50	116.0	15.0	283.2	2.0	0	0.00	100.	1009.	3	NAD-SFC	NoSubs
11	12	30	364	13	99.4	-9.000	-9.000	-9.000	356.	-999.	-99999.0	0.0471	0.72	0.21	0.00	0.0	15.0	284.5	2.0	0	0.00	93.	1008.	3	NAD-SFC	NoSubs
11	12	30	364	14	85.2	-9.000	-9.000	-9.000	384.	-999.	-99999.0	0.0471	0.72	0.22	0.00	0.0	15.0	285.5	2.0	0	0.00	89.	1007.	3	NAD-SFC	NoSubs
11	12	30	364	15	57.1	0.082	0.888	0.013	440.	57.	-1.0	0.0950	0.72	0.25	0.50	341.0	15.0	286.0	2.0	0	0.00	87.	1007.	3	NAD-SFC	NoSubs
11	12	30	364	16	17.7	0.071	0.611	0.013	462.	45.	-1.8	0.0950	0.72	0.34	0.50	352.0	15.0	286.0	2.0	0	0.00	89.	1007.	3	NAD-SFC	NoSubs
11	12	30	364	17	-5.0	0.107	-9.000	-9.000	-999.	84.	22.0	0.0960	0.72	0.61	1.50	21.0	15.0	285.5	2.0	0	0.00	91.	1007.	3	NAD-SFC	NoSubs
11	12	30	364	18	-2.9	0.086	-9.000	-9.000	-999.	60.	19.9	0.0960	0.72	1.00	1.00	28.0	15.0	284.9	2.0	0	0.00	94.	1007.	3	NAD-SFC	NoSubs
11	12	30	364	19	-1.2	0.074	-9.000	-9.000	-999.	48.	29.4	0.0950	0.72	1.00	0.50	348.0	15.0	284.4	2.0	0	0.00	97.	1008.	3	NAD-SFC	NoSubs
11	12	30	364	20	-2.7	0.083	-9.000	-9.000	-999.	57.	19.3	0.0800	0.72	1.00	1.00	320.0	15.0	283.8	2.0	0	0.00	100.	1009.	4	NAD-SFC	NoSubs
11	12	30	364	21	-2.2	0.076	-9.000	-9.000	-999.	50.	17.6	0.0420	0.72	1.00	1.00	297.0	15.0	283.0	2.0	0	0.00	100.	1009.	5	NAD-SFC	NoSubs
11	12	30	364	22	-0.8	0.058	-9.000	-9.000	-999.	34.	23.7	0.0220	0.72	1.00	0.50	231.0	15.0	282.0	2.0	0	0.00	100.	1010.	7	NAD-SFC	NoSubs
11	12	30	364	23	-1.3	0.060	-9.000	-9.000	-999.	36.	15.5	0.0240	0.72	1.00	1.00	178.0	15.0	282.9	2.0	0	0.00	100.	1010.	10	NAD-SFC	NoSubs
11	12	30	364	24	-1.3	0.060	-9.000	-9.000	-999.	36.	15.5	0.0240	0.72	1.00	1.00	168.0	15.0	283.5	2.0	0	0.00	100.	1010.	10	NAD-SFC	NoSubs
11	12	31	365	1	-0.6	0.052	-9.000	-9.000	-999.	28.	21.8	0.0400	0.72	1.00	0.50	67.0	15.0	283.8	2.0	0	0.51	100.	1010.	10	NAD-SFC	NoSubs
11	12	31	365	2	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.0471	0.72	1.00	0.00	0.0	15.0	284.0	2.0	0	0.25	100.	1010.	10	NAD-SFC	NoSubs
11	12	31	365	3	-1.2	0.071	-9.000	-9.000	-999.	46.	28.6	0.0800	0.72	1.00	0.50	325.0	15.0	284.2	2.0	0	0.00	100.	1010.	4	NAD-SFC	NoSubs
11	12	31	365	4	-10.1	0.145	-9.000	-9.000	-999.	132.	27.0	0.0800	0.72	1.00	2.10	321.0	15.0	284.2	2.0	0	0.00	100.	1010.	2	NAD-SFC	NoSubs
11	12	31	365	5	-22.7	0.220	-9.000	-9.000	-999.	248.	42.4	0.0800	0.72	1.00	3.10	328.0	15.0	284.1	2.0	0	0.00	100.	1010.	2	NAD-SFC	NoSubs
11	12	31	365	6	-29.4	0.268	-9.000	-9.000	-999.	332.	58.8	0.0950	0.72	1.00	3.60	344.0	15.0	283.8	2.0	0	0.00	100.	1010.	2	NAD-SFC	NoSubs
11	12	31	365	7	-16.7	0.189	-9.000	-9.000	-999.	199.	36.4	0.0950	0.72	1.00	2.60	343.0	15.0	283.1	2.0	0	0.00	100.	1010.	2	NAD-SFC	NoSubs
11	12	31	365	8	-4.9	0.104	-9.000	-9.000	-999.	83.	20.6	0.0800	0.72	0.61	1.50	324.0	15.0	282.2	2.0	0	0.00	100.	1011.	2	NAD-SFC	NoSubs
11	12	31	365	9	15.1	0.185	0.346	0.005	99.	191.	-37.8	0.0800	0.72	0.34	2.10	303.0	15.0	282.1	2.0	0	0.00	100.	1011.	2	NAD-SFC	NoSubs
11	12	31	365	10	55.0	0.161	0.753	0.005	280.	155.	-6.8	0.0800	0.72	0.25	1.50	309.0	15.0	282.6	2.0	0	0.00	94.	1011.	2	NAD-SFC	NoSubs
11	12	31	365	11	83.9	0.081	1.018	0.006	453.	57.	-1.0	0.0650	0.72	0.22	0.50	43.0	15.0	283.9	2.0	0	0.00	85.	1011.	2	NAD-SFC	NoSubs
11	12	31	365	12	99.1	-9.000	-9.000	-9.000	627.	-999.	-99999.0	0.0471	0.72	0.21	0.00	0.0	15.0	285.6	2.0	0	0.00	75.	1010.	2	NAD-SFC	NoSubs

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11 12 31 365 13   99.5 -9.000 -9.000 -9.000  728. -999. -99999.0 0.0471  0.72  0.21  0.00   0.0  15.0 286.9  2.0    0  0.00   69. 1009.    2 NAD-SFC NoSubs
11 12 31 365 14   85.3 -9.000 -9.000 -9.000  797. -999. -99999.0 0.0471  0.72  0.22  0.00   0.0  15.0 287.8  2.0    0  0.00   64. 1008.    2 NAD-SFC NoSubs
11 12 31 365 15   57.0  0.080  1.100  0.015  840.   54.     -1.0 0.0800  0.72  0.25  0.50 315.0  15.0 288.2  2.0    0  0.00   62. 1008.    2 NAD-SFC NoSubs
11 12 31 365 16   17.5 -9.000 -9.000 -9.000  854. -999. -99999.0 0.0471  0.72  0.34  0.00   0.0  15.0 289.1  2.0    0  0.00   65. 1007.    2 NAD-SFC NoSubs
11 12 31 365 17   -1.1  0.070 -9.000 -9.000 -999.   45.     28.2 0.0960  0.72  0.60  0.50  20.0  15.0 288.4  2.0    0  0.00   69. 1007.    2 NAD-SFC NoSubs
11 12 31 365 18   -2.9  0.086 -9.000 -9.000 -999.   61.     19.9 0.0960  0.72  1.00  1.00  17.0  15.0 287.5  2.0    0  0.00   74. 1008.    2 NAD-SFC NoSubs
11 12 31 365 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.0471  0.72  1.00  0.00   0.0  15.0 286.5  2.0    0  0.00   80. 1008.    2 NAD-SFC NoSubs
11 12 31 365 20   -2.9  0.087 -9.000 -9.000 -999.   61.     19.9 0.0950  0.72  1.00  1.00 347.0  15.0 285.5  2.0    0  0.00   86. 1009.    2 NAD-SFC NoSubs
11 12 31 365 21   -5.5  0.109 -9.000 -9.000 -999.   86.     20.8 0.0960  0.72  1.00  1.50   9.0  15.0 284.8  2.0    0  0.00   90. 1009.    2 NAD-SFC NoSubs
11 12 31 365 22  -16.7  0.189 -9.000 -9.000 -999.  198.     36.6 0.0960  0.72  1.00  2.60  12.0  15.0 284.2  2.0    0  0.00   92. 1009.    2 NAD-SFC NoSubs
11 12 31 365 23  -10.7  0.150 -9.000 -9.000 -999.  140.     28.5 0.0960  0.72  1.00  2.10   4.0  15.0 284.0  2.0    0  0.00   92. 1010.    2 NAD-SFC NoSubs
11 12 31 365 24  -10.7  0.150 -9.000 -9.000 -999.  139.     28.4 0.0950  0.72  1.00  2.10 338.0  15.0 283.6  2.0    0  0.00   92. 1010.    2 NAD-SFC NoSubs
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 7  1   1  1    15.0 1   311.0     0.50     5.60    99.00    99.00
 7  1   1  2    15.0 1   308.0     1.00     5.10    99.00    99.00
 7  1   1  3    15.0 1   314.0     1.00     4.90    99.00    99.00
 7  1   1  4    15.0 1   313.0     1.00     4.50    99.00    99.00
 7  1   1  5    15.0 1   303.0     0.50     4.10    99.00    99.00
 7  1   1  6    15.0 1   252.0     0.50     3.90    99.00    99.00
 7  1   1  7    15.0 1   245.0     0.50     3.60    99.00    99.00
 7  1   1  8    15.0 1   243.0     1.00     3.60    99.00    99.00
 7  1   1  9    15.0 1   277.0     1.00     5.10    99.00    99.00
 7  1   1 10    15.0 1   301.0     1.50     7.10    99.00    99.00
 7  1   1 11    15.0 1   304.0     1.50     8.10    99.00    99.00
 7  1   1 12    15.0 1   296.0     1.50     9.30    99.00    99.00
 7  1   1 13    15.0 1   313.0     1.50    10.10    99.00    99.00
 7  1   1 14    15.0 1   329.0     1.50    10.90    99.00    99.00
 7  1   1 15    15.0 1   342.0     1.50    11.30    99.00    99.00
 7  1   1 16    15.0 1   334.0     0.50    11.40    99.00    99.00
 7  1   1 17    15.0 1   161.0     0.50    10.80    99.00    99.00
 7  1   1 18    15.0 1   157.0     1.00     9.60    99.00    99.00
 7  1   1 19    15.0 1   174.0     2.10     8.60    99.00    99.00
 7  1   1 20    15.0 1   177.0     2.60     8.00    99.00    99.00
 7  1   1 21    15.0 1   190.0     2.60     7.60    99.00    99.00
 7  1   1 22    15.0 1   202.0     2.60     7.10    99.00    99.00
 7  1   1 23    15.0 1   210.0     2.60     6.90    99.00    99.00
 7  1   1 24    15.0 1   220.0     3.10     6.60    99.00    99.00
 7  1   2  1    15.0 1   236.0     3.60     6.50    99.00    99.00
 7  1   2  2    15.0 1   252.0     3.60     6.10    99.00    99.00
 7  1   2  3    15.0 1   252.0     4.10     5.60    99.00    99.00
 7  1   2  4    15.0 1   250.0     4.10     5.30    99.00    99.00
 7  1   2  5    15.0 1   256.0     4.10     5.00    99.00    99.00
 7  1   2  6    15.0 1   257.0     3.60     4.90    99.00    99.00
 7  1   2  7    15.0 1   259.0     3.10     4.60    99.00    99.00
 7  1   2  8    15.0 1   256.0     2.60     4.60    99.00    99.00
 7  1   2  9    15.0 1   270.0     2.10     5.90    99.00    99.00
 7  1   2 10    15.0 1   291.0     2.10     8.40    99.00    99.00
 7  1   2 11    15.0 1   305.0     1.50    10.40    99.00    99.00
 7  1   2 12    15.0 1   311.0     1.50    12.00    99.00    99.00
 7  1   2 13    15.0 1   329.0     1.50    12.60    99.00    99.00
 7  1   2 14    15.0 1   337.0     2.10    12.90    99.00    99.00
 7  1   2 15    15.0 1   350.0     2.10    12.60    99.00    99.00
 7  1   2 16    15.0 1     0.0     0.00    11.90    99.00    99.00
 7  1   2 17    15.0 1     8.0     2.10    10.90    99.00    99.00
 7  1   2 18    15.0 1   351.0     1.00    10.10    99.00    99.00
 7  1   2 19    15.0 1   342.0     0.50     9.40    99.00    99.00
 7  1   2 20    15.0 1     0.0     0.00     8.80    99.00    99.00
 7  1   2 21    15.0 1     0.0     0.00     8.30    99.00    99.00
 7  1   2 22    15.0 1     0.0     0.00     7.90    99.00    99.00
 7  1   2 23    15.0 1     0.0     0.00     7.60    99.00    99.00
 7  1   2 24    15.0 1     0.0     0.00     7.40    99.00    99.00
 7  1   3  1    15.0 1     0.0     0.00     7.10    99.00    99.00
 7  1   3  2    15.0 1     0.0     0.00     6.90    99.00    99.00
 7  1   3  3    15.0 1     0.0     0.00     6.60    99.00    99.00
 7  1   3  4    15.0 1     0.0     0.00     6.60    99.00    99.00
 7  1   3  5    15.0 1     0.0     0.00     6.50    99.00    99.00
 7  1   3  6    15.0 1     0.0     0.00     6.40    99.00    99.00
 7  1   3  7    15.0 1     0.0     0.00     6.40    99.00    99.00
 7  1   3  8    15.0 1    89.0     0.50     6.30    99.00    99.00
 7  1   3  9    15.0 1    88.0     0.50     6.40    99.00    99.00
 7  1   3 10    15.0 1   104.0     0.50     7.50    99.00    99.00
 7  1   3 11    15.0 1     0.0     0.00     9.10    99.00    99.00
 7  1   3 12    15.0 1     0.0     0.00    10.40    99.00    99.00
 7  1   3 13    15.0 1     0.0     0.00    11.60    99.00    99.00
 7  1   3 14    15.0 1     0.0     0.00    12.60    99.00    99.00
 7  1   3 15    15.0 1     0.0     0.00    13.10    99.00    99.00
 7  1   3 16    15.0 1     0.0     0.00    13.10    99.00    99.00
 7  1   3 17    15.0 1     0.0     0.00    12.40    99.00    99.00
 7  1   3 18    15.0 1     0.0     0.00    11.10    99.00    99.00
 7  1   3 19    15.0 1     0.0     0.00    10.10    99.00    99.00
 7  1   3 20    15.0 1     0.0     0.00     9.10    99.00    99.00
 7  1   3 21    15.0 1     0.0     0.00     8.40    99.00    99.00
 7  1   3 22    15.0 1     0.0     0.00     7.80    99.00    99.00
 7  1   3 23    15.0 1     0.0     0.00     7.30    99.00    99.00
 7  1   3 24    15.0 1   197.0     0.50     6.80    99.00    99.00
 7  1   4  1    15.0 1   186.0     1.00     6.40    99.00    99.00
 7  1   4  2    15.0 1   156.0     1.00     6.10    99.00    99.00
 7  1   4  3    15.0 1   148.0     1.50     6.40    99.00    99.00
 7  1   4  4    15.0 1   129.0     2.60     6.80    99.00    99.00
 7  1   4  5    15.0 1   141.0     3.60     7.40    99.00    99.00
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 7  1  4  6    15.0 1   142.0     3.60     7.90    99.00    99.00
 7  1  4  7    15.0 1   136.0     3.60     8.00    99.00    99.00
 7  1  4  8    15.0 1   138.0     3.60     8.10    99.00    99.00
 7  1  4  9    15.0 1   136.0     3.60     8.50    99.00    99.00
 7  1  4 10    15.0 1   137.0     4.10     9.10    99.00    99.00
 7  1  4 11    15.0 1   137.0     3.10     9.10    99.00    99.00
 7  1  4 12    15.0 1   123.0     1.50     9.60    99.00    99.00
 7  1  4 13    15.0 1   345.0     1.50    10.10    99.00    99.00
 7  1  4 14    15.0 1   332.0     3.60    10.60    99.00    99.00
 7  1  4 15    15.0 1   341.0     6.20    12.00    99.00    99.00
 7  1  4 16    15.0 1   350.0     4.60    12.00    99.00    99.00
 7  1  4 17    15.0 1   353.0     4.60    10.50    99.00    99.00
 7  1  4 18    15.0 1   339.0     5.10     9.80    99.00    99.00
 7  1  4 19    15.0 1   327.0     5.10     9.60    99.00    99.00
 7  1  4 20    15.0 1   329.0     4.60     9.10    99.00    99.00
 7  1  4 21    15.0 1   317.0     4.10     8.60    99.00    99.00
 7  1  4 22    15.0 1   309.0     4.10     8.40    99.00    99.00
 7  1  4 23    15.0 1   312.0     4.60     8.10    99.00    99.00
 7  1  4 24    15.0 1   308.0     5.10     8.00    99.00    99.00
 7  1  5  1    15.0 1   325.0     5.10     6.90    99.00    99.00
 7  1  5  2    15.0 1   324.0     4.60     5.50    99.00    99.00
 7  1  5  3    15.0 1   317.0     3.60     4.80    99.00    99.00
 7  1  5  4    15.0 1   310.0     1.50     4.50    99.00    99.00
 7  1  5  5    15.0 1   202.0     1.00     4.10    99.00    99.00
 7  1  5  6    15.0 1   185.0     1.50     3.90    99.00    99.00
 7  1  5  7    15.0 1   182.0     1.00     3.60    99.00    99.00
 7  1  5  8    15.0 1   355.0     1.00     3.60    99.00    99.00
 7  1  5  9    15.0 1   339.0     7.70     6.10    99.00    99.00
 7  1  5 10    15.0 1   328.0    10.30     8.50    99.00    99.00
 7  1  5 11    15.0 1   338.0    10.30     9.90    99.00    99.00
 7  1  5 12    15.0 1   339.0     9.30    10.80    99.00    99.00
 7  1  5 13    15.0 1   328.0     8.70    11.50    99.00    99.00
 7  1  5 14    15.0 1   320.0     7.20    11.90    99.00    99.00
 7  1  5 15    15.0 1   325.0     5.10    11.80    99.00    99.00
 7  1  5 16    15.0 1   308.0     2.60    10.80    99.00    99.00
 7  1  5 17    15.0 1   169.0     1.00     9.90    99.00    99.00
 7  1  5 18    15.0 1   136.0     1.50     9.00    99.00    99.00
 7  1  5 19    15.0 1   157.0     0.50     8.10    99.00    99.00
 7  1  5 20    15.0 1   227.0     0.50     7.30    99.00    99.00
 7  1  5 21    15.0 1   222.0     1.50     6.60    99.00    99.00
 7  1  5 22    15.0 1   220.0     2.60     5.90    99.00    99.00
 7  1  5 23    15.0 1   218.0     3.60     5.30    99.00    99.00
 7  1  5 24    15.0 1   232.0     3.60     4.80    99.00    99.00
 7  1  6  1    15.0 1   236.0     3.60     4.30    99.00    99.00
 7  1  6  2    15.0 1   243.0     3.60     3.60    99.00    99.00
 7  1  6  3    15.0 1   255.0     4.10     3.30    99.00    99.00
 7  1  6  4    15.0 1   263.0     4.10     3.00    99.00    99.00
 7  1  6  5    15.0 1   272.0     3.60     2.60    99.00    99.00
 7  1  6  6    15.0 1   266.0     3.10     2.30    99.00    99.00
 7  1  6  7    15.0 1   268.0     2.60     2.00    99.00    99.00
 7  1  6  8    15.0 1   282.0     2.10     1.60    99.00    99.00
 7  1  6  9    15.0 1   318.0     1.50     3.30    99.00    99.00
 7  1  6 10    15.0 1   338.0     1.00     5.00    99.00    99.00
 7  1  6 11    15.0 1   335.0     1.00     6.50    99.00    99.00
 7  1  6 12    15.0 1   316.0     1.00     7.60    99.00    99.00
 7  1  6 13    15.0 1   331.0     1.00     8.80    99.00    99.00
 7  1  6 14    15.0 1   345.0     1.50     9.60    99.00    99.00
 7  1  6 15    15.0 1   342.0     2.10     9.90    99.00    99.00
 7  1  6 16    15.0 1   352.0     1.50     9.90    99.00    99.00
 7  1  6 17    15.0 1    62.0     0.50     9.40    99.00    99.00
 7  1  6 18    15.0 1   155.0     1.00     8.30    99.00    99.00
 7  1  6 19    15.0 1   158.0     2.10     7.30    99.00    99.00
 7  1  6 20    15.0 1   171.0     3.60     6.40    99.00    99.00
 7  1  6 21    15.0 1   172.0     3.10     5.80    99.00    99.00
 7  1  6 22    15.0 1   156.0     2.60     5.30    99.00    99.00
 7  1  6 23    15.0 1   152.0     2.60     4.60    99.00    99.00
 7  1  6 24    15.0 1   136.0     2.60     4.30    99.00    99.00
 7  1  7  1    15.0 1   158.0     1.00     4.00    99.00    99.00
 7  1  7  2    15.0 1   273.0     0.50     3.60    99.00    99.00
 7  1  7  3    15.0 1   300.0     0.50     3.30    99.00    99.00
 7  1  7  4    15.0 1   155.0     0.50     2.90    99.00    99.00
 7  1  7  5    15.0 1   163.0     1.00     2.60    99.00    99.00
 7  1  7  6    15.0 1   196.0     1.50     2.60    99.00    99.00
 7  1  7  7    15.0 1   239.0     2.10     2.60    99.00    99.00
 7  1  7  8    15.0 1   254.0     3.10     2.60    99.00    99.00
 7  1  7  9    15.0 1   280.0     2.60     4.10    99.00    99.00
 7  1  7 10    15.0 1   284.0     3.10     6.90    99.00    99.00
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 7  1  7 11    15.0 1   293.0     3.10     9.10    99.00    99.00
 7  1  7 12    15.0 1   292.0     2.60    10.80    99.00    99.00
 7  1  7 13    15.0 1   301.0     2.60    11.80    99.00    99.00
 7  1  7 14    15.0 1   316.0     2.10    12.60    99.00    99.00
 7  1  7 15    15.0 1   337.0     2.10    13.00    99.00    99.00
 7  1  7 16    15.0 1    25.0     2.60    12.50    99.00    99.00
 7  1  7 17    15.0 1    54.0     3.10    11.60    99.00    99.00
 7  1  7 18    15.0 1    74.0     2.10    10.60    99.00    99.00
 7  1  7 19    15.0 1   251.0     0.50     9.60    99.00    99.00
 7  1  7 20    15.0 1   282.0     3.10     9.00    99.00    99.00
 7  1  7 21    15.0 1   318.0     3.60     8.60    99.00    99.00
 7  1  7 22    15.0 1    12.0     3.10     8.00    99.00    99.00
 7  1  7 23    15.0 1    61.0     2.10     7.10    99.00    99.00
 7  1  7 24    15.0 1    65.0     1.50     6.60    99.00    99.00
 7  1  8  1    15.0 1   249.0     0.50     6.00    99.00    99.00
 7  1  8  2    15.0 1   251.0     1.00     5.50    99.00    99.00
 7  1  8  3    15.0 1   268.0     1.00     5.10    99.00    99.00
 7  1  8  4    15.0 1   315.0     1.00     4.90    99.00    99.00
 7  1  8  5    15.0 1   307.0     1.00     4.60    99.00    99.00
 7  1  8  6    15.0 1   295.0     1.00     4.40    99.00    99.00
 7  1  8  7    15.0 1   295.0     1.00     4.30    99.00    99.00
 7  1  8  8    15.0 1   331.0     1.00     4.10    99.00    99.00
 7  1  8  9    15.0 1   330.0     1.50     5.90    99.00    99.00
 7  1  8 10    15.0 1   320.0     2.10     8.60    99.00    99.00
 7  1  8 11    15.0 1   329.0     1.50    10.60    99.00    99.00
 7  1  8 12    15.0 1   347.0     1.50    12.10    99.00    99.00
 7  1  8 13    15.0 1   349.0     1.50    13.60    99.00    99.00
 7  1  8 14    15.0 1   354.0     1.50    14.80    99.00    99.00
 7  1  8 15    15.0 1   352.0     1.50    15.30    99.00    99.00
 7  1  8 16    15.0 1   349.0     2.10    15.00    99.00    99.00
 7  1  8 17    15.0 1   348.0     2.60    13.90    99.00    99.00
 7  1  8 18    15.0 1   360.0     1.50    12.60    99.00    99.00
 7  1  8 19    15.0 1    13.0     0.50    11.30    99.00    99.00
 7  1  8 20    15.0 1     0.0     0.00    10.10    99.00    99.00
 7  1  8 21    15.0 1    43.0     0.50     9.40    99.00    99.00
 7  1  8 22    15.0 1    28.0     1.00     8.60    99.00    99.00
 7  1  8 23    15.0 1    20.0     1.00     8.10    99.00    99.00
 7  1  8 24    15.0 1    14.0     1.00     7.80    99.00    99.00
 7  1  9  1    15.0 1   355.0     1.00     7.40    99.00    99.00
 7  1  9  2    15.0 1   336.0     1.50     7.10    99.00    99.00
 7  1  9  3    15.0 1   346.0     1.50     6.60    99.00    99.00
 7  1  9  4    15.0 1     4.0     1.50     6.10    99.00    99.00
 7  1  9  5    15.0 1   356.0     1.00     5.80    99.00    99.00
 7  1  9  6    15.0 1   339.0     0.50     5.60    99.00    99.00
 7  1  9  7    15.0 1   353.0     0.50     5.50    99.00    99.00
 7  1  9  8    15.0 1    34.0     0.50     5.40    99.00    99.00
 7  1  9  9    15.0 1     0.0     0.00     6.60    99.00    99.00
 7  1  9 10    15.0 1   304.0     1.50    10.10    99.00    99.00
 7  1  9 11    15.0 1   301.0     1.50    12.10    99.00    99.00
 7  1  9 12    15.0 1   327.0     1.00    14.00    99.00    99.00
 7  1  9 13    15.0 1   344.0     1.00    15.30    99.00    99.00
 7  1  9 14    15.0 1   345.0     1.50    16.10    99.00    99.00
 7  1  9 15    15.0 1   350.0     1.50    16.60    99.00    99.00
 7  1  9 16    15.0 1   353.0     1.00    16.40    99.00    99.00
 7  1  9 17    15.0 1   331.0     0.50    15.40    99.00    99.00
 7  1  9 18    15.0 1     0.0     0.00    13.90    99.00    99.00
 7  1  9 19    15.0 1     0.0     0.00    12.50    99.00    99.00
 7  1  9 20    15.0 1     0.0     0.00    11.10    99.00    99.00
 7  1  9 21    15.0 1     0.0     0.00    10.10    99.00    99.00
 7  1  9 22    15.0 1     0.0     0.00     9.40    99.00    99.00
 7  1  9 23    15.0 1     0.0     0.00     8.80    99.00    99.00
 7  1  9 24    15.0 1     0.0     0.00     8.10    99.00    99.00
 7  1 10  1    15.0 1     0.0     0.00     7.60    99.00    99.00
 7  1 10  2    15.0 1     0.0     0.00     7.10    99.00    99.00
 7  1 10  3    15.0 1   280.0     0.50     6.80    99.00    99.00
 7  1 10  4    15.0 1   295.0     0.50     6.60    99.00    99.00
 7  1 10  5    15.0 1   308.0     0.50     6.10    99.00    99.00
 7  1 10  6    15.0 1   335.0     0.50     5.60    99.00    99.00
 7  1 10  7    15.0 1   344.0     0.50     4.60    99.00    99.00
 7  1 10  8    15.0 1     0.0     0.00     3.90    99.00    99.00
 7  1 10  9    15.0 1   336.0     0.50     5.30    99.00    99.00
 7  1 10 10    15.0 1   332.0     1.00     8.60    99.00    99.00
 7  1 10 11    15.0 1   321.0     0.50    10.90    99.00    99.00
 7  1 10 12    15.0 1   333.0     0.50    12.60    99.00    99.00
 7  1 10 13    15.0 1   325.0     1.00    14.10    99.00    99.00
 7  1 10 14    15.0 1   306.0     1.50    14.80    99.00    99.00
 7  1 10 15    15.0 1   316.0     2.10    14.80    99.00    99.00
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 7   1 10 16     15.0 1   328.0      3.10     15.10     99.00     99.00
 7   1 10 17     15.0 1   338.0      4.10     13.60     99.00     99.00
 7   1 10 18     15.0 1   337.0      4.10     12.00     99.00     99.00
 7   1 10 19     15.0 1   343.0      4.10     10.50     99.00     99.00
 7   1 10 20     15.0 1   329.0      3.60      9.30     99.00     99.00
 7   1 10 21     15.0 1   325.0      3.10      8.60     99.00     99.00
 7   1 10 22     15.0 1   312.0      2.60      8.10     99.00     99.00
 7   1 10 23     15.0 1   298.0      2.60      7.80     99.00     99.00
 7   1 10 24     15.0 1   291.0      2.60      7.30     99.00     99.00
 7   1 11  1     15.0 1   300.0      2.60      6.60     99.00     99.00
 7   1 11  2     15.0 1   324.0      3.10      5.50     99.00     99.00
 7   1 11  3     15.0 1   333.0      2.60      5.10     99.00     99.00
 7   1 11  4     15.0 1   334.0      2.10      5.00     99.00     99.00
 7   1 11  5     15.0 1   333.0      2.60      4.90     99.00     99.00
 7   1 11  6     15.0 1   334.0      3.10      5.00     99.00     99.00
 7   1 11  7     15.0 1   332.0      2.60      4.80     99.00     99.00
 7   1 11  8     15.0 1   311.0      2.10      4.50     99.00     99.00
 7   1 11  9     15.0 1   332.0      3.60      5.00     99.00     99.00
 7   1 11 10     15.0 1   335.0      3.10      5.80     99.00     99.00
 7   1 11 11     15.0 1   327.0      2.60      6.60     99.00     99.00
 7   1 11 12     15.0 1   330.0      2.60      7.10     99.00     99.00
 7   1 11 13     15.0 1   335.0      3.10      7.80     99.00     99.00
 7   1 11 14     15.0 1   334.0      3.60      8.10     99.00     99.00
 7   1 11 15     15.0 1   327.0      4.10      8.00     99.00     99.00
 7   1 11 16     15.0 1   341.0      3.60      7.60     99.00     99.00
 7   1 11 17     15.0 1   343.0      4.10      6.40     99.00     99.00
 7   1 11 18     15.0 1   336.0      3.60      5.10     99.00     99.00
 7   1 11 19     15.0 1   329.0      3.10      4.60     99.00     99.00
 7   1 11 20     15.0 1   314.0      2.60      4.10     99.00     99.00
 7   1 11 21     15.0 1   286.0      2.60      3.50     99.00     99.00
 7   1 11 22     15.0 1   266.0      2.10      3.00     99.00     99.00
 7   1 11 23     15.0 1   271.0      2.10      2.50     99.00     99.00
 7   1 11 24     15.0 1   289.0      1.50      2.00     99.00     99.00
 7   1 12  1     15.0 1   308.0      1.00      1.60     99.00     99.00
 7   1 12  2     15.0 1   309.0      1.50      1.50     99.00     99.00
 7   1 12  3     15.0 1   314.0      2.60      1.60     99.00     99.00
 7   1 12  4     15.0 1   316.0      3.60      1.60     99.00     99.00
 7   1 12  5     15.0 1   317.0      4.10      1.40     99.00     99.00
 7   1 12  6     15.0 1   328.0      4.10      0.80     99.00     99.00
 7   1 12  7     15.0 1   318.0      3.60     -0.40     99.00     99.00
 7   1 12  8     15.0 1   322.0      4.10     -0.80     99.00     99.00
 7   1 12  9     15.0 1   343.0      6.20      1.10     99.00     99.00
 7   1 12 10     15.0 1   341.0      6.20      2.40     99.00     99.00
 7   1 12 11     15.0 1   328.0      5.70      3.40     99.00     99.00
 7   1 12 12     15.0 1   329.0      5.10      4.10     99.00     99.00
 7   1 12 13     15.0 1   328.0      4.60      5.00     99.00     99.00
 7   1 12 14     15.0 1   318.0      4.60      5.60     99.00     99.00
 7   1 12 15     15.0 1   321.0      5.10      5.90     99.00     99.00
 7   1 12 16     15.0 1   309.0      3.10      5.80     99.00     99.00
 7   1 12 17     15.0 1   286.0      3.60      5.00     99.00     99.00
 7   1 12 18     15.0 1   279.0      3.60      3.60     99.00     99.00
 7   1 12 19     15.0 1   282.0      3.10      2.50     99.00     99.00
 7   1 12 20     15.0 1   275.0      3.10      1.50     99.00     99.00
 7   1 12 21     15.0 1   256.0      3.60      0.50     99.00     99.00
 7   1 12 22     15.0 1   257.0      2.10     -0.40     99.00     99.00
 7   1 12 23     15.0 1   275.0      0.50     -1.10     99.00     99.00
 7   1 12 24     15.0 1    30.0      0.50     -1.90     99.00     99.00
 7   1 13  1     15.0 1   309.0      0.50     -2.40     99.00     99.00
 7   1 13  2     15.0 1   288.0      1.50     -2.80     99.00     99.00
 7   1 13  3     15.0 1   293.0      2.10     -3.10     99.00     99.00
 7   1 13  4     15.0 1   289.0      3.10     -3.40     99.00     99.00
 7   1 13  5     15.0 1   294.0      3.60     -3.90     99.00     99.00
 7   1 13  6     15.0 1   290.0      3.10     -4.40     99.00     99.00
 7   1 13  7     15.0 1   277.0      2.60     -4.80     99.00     99.00
 7   1 13  8     15.0 1   263.0      2.10     -4.90     99.00     99.00
 7   1 13  9     15.0 1   321.0      2.10     -2.90     99.00     99.00
 7   1 13 10     15.0 1   293.0      0.50     -1.30     99.00     99.00
 7   1 13 11     15.0 1   262.0      1.00      0.50     99.00     99.00
 7   1 13 12     15.0 1   271.0      1.50      1.60     99.00     99.00
 7   1 13 13     15.0 1   280.0      2.10      2.60     99.00     99.00
 7   1 13 14     15.0 1   297.0      2.10      3.40     99.00     99.00
 7   1 13 15     15.0 1   321.0      2.10      3.80     99.00     99.00
 7   1 13 16     15.0 1   336.0      1.50      3.60     99.00     99.00
 7   1 13 17     15.0 1    37.0      0.50      3.10     99.00     99.00
 7   1 13 18     15.0 1   144.0      0.50      2.10     99.00     99.00
 7   1 13 19     15.0 1   170.0      1.00      1.10     99.00     99.00
 7   1 13 20     15.0 1   166.0      1.50      0.10     99.00     99.00
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 7   1 13 21     15.0 1   158.0     1.50     -0.50    99.00    99.00
 7   1 13 22     15.0 1   141.0     2.10     -1.10    99.00    99.00
 7   1 13 23     15.0 1   130.0     2.10     -1.80    99.00    99.00
 7   1 13 24     15.0 1   118.0     1.50     -2.30    99.00    99.00
 7   1 14  1     15.0 1   124.0     1.50     -2.80    99.00    99.00
 7   1 14  2     15.0 1   123.0     0.50     -3.30    99.00    99.00
 7   1 14  3     15.0 1     0.0     0.00     -3.80    99.00    99.00
 7   1 14  4     15.0 1     0.0     0.00     -4.30    99.00    99.00
 7   1 14  5     15.0 1     0.0     0.00     -4.60    99.00    99.00
 7   1 14  6     15.0 1     0.0     0.00     -4.90    99.00    99.00
 7   1 14  7     15.0 1     0.0     0.00     -5.10    99.00    99.00
 7   1 14  8     15.0 1     0.0     0.00     -5.30    99.00    99.00
 7   1 14  9     15.0 1     0.0     0.00     -3.30    99.00    99.00
 7   1 14 10     15.0 1     0.0     0.00      0.30    99.00    99.00
 7   1 14 11     15.0 1     0.0     0.00      2.30    99.00    99.00
 7   1 14 12     15.0 1     0.0     0.00      4.00    99.00    99.00
 7   1 14 13     15.0 1     0.0     0.00      5.00    99.00    99.00
 7   1 14 14     15.0 1   321.0     0.50      5.80    99.00    99.00
 7   1 14 15     15.0 1   327.0     1.00      6.10    99.00    99.00
 7   1 14 16     15.0 1   346.0     2.10      5.90    99.00    99.00
 7   1 14 17     15.0 1     0.0     0.00      5.10    99.00    99.00
 7   1 14 18     15.0 1    16.0     2.10      4.10    99.00    99.00
 7   1 14 19     15.0 1    45.0     1.00      2.90    99.00    99.00
 7   1 14 20     15.0 1     0.0     0.00      1.80    99.00    99.00
 7   1 14 21     15.0 1   236.0     1.00      0.60    99.00    99.00
 7   1 14 22     15.0 1   277.0     1.00      0.00    99.00    99.00
 7   1 14 23     15.0 1   357.0     1.00     -0.60    99.00    99.00
 7   1 14 24     15.0 1    10.0     1.00     -1.40    99.00    99.00
 7   1 15  1     15.0 1    20.0     0.50     -1.90    99.00    99.00
 7   1 15  2     15.0 1    12.0     0.50     -2.30    99.00    99.00
 7   1 15  3     15.0 1    38.0     0.50     -2.50    99.00    99.00
 7   1 15  4     15.0 1    60.0     0.50     -2.80    99.00    99.00
 7   1 15  5     15.0 1    75.0     1.00     -3.10    99.00    99.00
 7   1 15  6     15.0 1    70.0     1.50     -3.50    99.00    99.00
 7   1 15  7     15.0 1    69.0     2.10     -3.90    99.00    99.00
 7   1 15  8     15.0 1    72.0     2.10     -4.00    99.00    99.00
 7   1 15  9     15.0 1    57.0     1.00     -2.00    99.00    99.00
 7   1 15 10     15.0 1     7.0     0.50      1.10    99.00    99.00
 7   1 15 11     15.0 1     0.0     0.00      3.30    99.00    99.00
 7   1 15 12     15.0 1   340.0     0.50      4.80    99.00    99.00
 7   1 15 13     15.0 1   354.0     1.00      5.80    99.00    99.00
 7   1 15 14     15.0 1   350.0     1.50      6.60    99.00    99.00
 7   1 15 15     15.0 1   353.0     1.50      6.90    99.00    99.00
 7   1 15 16     15.0 1     6.0     2.10      7.40    99.00    99.00
 7   1 15 17     15.0 1    43.0     2.10      6.60    99.00    99.00
 7   1 15 18     15.0 1    67.0     2.60      5.30    99.00    99.00
 7   1 15 19     15.0 1   101.0     1.50      4.10    99.00    99.00
 7   1 15 20     15.0 1   142.0     0.50      2.90    99.00    99.00
 7   1 15 21     15.0 1     0.0     0.00      1.90    99.00    99.00
 7   1 15 22     15.0 1    33.0     0.50      1.00    99.00    99.00
 7   1 15 23     15.0 1    29.0     1.00      0.30    99.00    99.00
 7   1 15 24     15.0 1    30.0     1.00     -0.40    99.00    99.00
 7   1 16  1     15.0 1    16.0     1.00     -0.90    99.00    99.00
 7   1 16  2     15.0 1    19.0     1.00     -1.40    99.00    99.00
 7   1 16  3     15.0 1     7.0     0.50     -1.80    99.00    99.00
 7   1 16  4     15.0 1   339.0     0.50     -2.00    99.00    99.00
 7   1 16  5     15.0 1   334.0     0.50     -2.40    99.00    99.00
 7   1 16  6     15.0 1   342.0     0.50     -2.60    99.00    99.00
 7   1 16  7     15.0 1    32.0     0.50     -2.80    99.00    99.00
 7   1 16  8     15.0 1    38.0     0.50     -2.90    99.00    99.00
 7   1 16  9     15.0 1     0.0     0.00     -1.10    99.00    99.00
 7   1 16 10     15.0 1   297.0     0.50      2.40    99.00    99.00
 7   1 16 11     15.0 1   281.0     0.50      4.50    99.00    99.00
 7   1 16 12     15.0 1   312.0     0.50      6.10    99.00    99.00
 7   1 16 13     15.0 1   332.0     0.50      7.40    99.00    99.00
 7   1 16 14     15.0 1     0.0     0.00      8.10    99.00    99.00
 7   1 16 15     15.0 1    31.0     1.50      8.50    99.00    99.00
 7   1 16 16     15.0 1    55.0     2.10      8.10    99.00    99.00
 7   1 16 17     15.0 1    46.0     2.60      7.30    99.00    99.00
 7   1 16 18     15.0 1    51.0     2.10      6.10    99.00    99.00
 7   1 16 19     15.0 1    29.0     1.50      5.00    99.00    99.00
 7   1 16 20     15.0 1    10.0     1.00      4.00    99.00    99.00
 7   1 16 21     15.0 1   336.0     1.00      3.30    99.00    99.00
 7   1 16 22     15.0 1     6.0     0.50      3.00    99.00    99.00
 7   1 16 23     15.0 1    19.0     0.50      2.90    99.00    99.00
 7   1 16 24     15.0 1     0.0     0.00      2.80    99.00    99.00
 7   1 17  1     15.0 1     0.0     0.00      2.60    99.00    99.00
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7	1	17	2	15.0	1	268.0	0.50	2.30	99.00	99.00
7	1	17	3	15.0	1	279.0	1.00	1.80	99.00	99.00
7	1	17	4	15.0	1	294.0	2.10	2.00	99.00	99.00
7	1	17	5	15.0	1	303.0	2.10	1.90	99.00	99.00
7	1	17	6	15.0	1	307.0	1.50	1.30	99.00	99.00
7	1	17	7	15.0	1	290.0	1.50	0.80	99.00	99.00
7	1	17	8	15.0	1	271.0	1.50	0.60	99.00	99.00
7	1	17	9	15.0	1	324.0	2.60	2.10	99.00	99.00
7	1	17	10	15.0	1	332.0	2.10	3.50	99.00	99.00
7	1	17	11	15.0	1	316.0	1.50	5.10	99.00	99.00
7	1	17	12	15.0	1	325.0	2.10	6.30	99.00	99.00
7	1	17	13	15.0	1	316.0	2.10	7.40	99.00	99.00
7	1	17	14	15.0	1	308.0	2.10	8.10	99.00	99.00
7	1	17	15	15.0	1	344.0	2.60	8.40	99.00	99.00
7	1	17	16	15.0	1	342.0	2.10	8.10	99.00	99.00
7	1	17	17	15.0	1	348.0	2.10	7.60	99.00	99.00
7	1	17	18	15.0	1	0.0	0.00	6.60	99.00	99.00
7	1	17	19	15.0	1	0.0	0.00	5.40	99.00	99.00
7	1	17	20	15.0	1	197.0	0.50	4.10	99.00	99.00
7	1	17	21	15.0	1	188.0	0.50	2.90	99.00	99.00
7	1	17	22	15.0	1	178.0	0.50	2.10	99.00	99.00
7	1	17	23	15.0	1	111.0	0.50	1.50	99.00	99.00
7	1	17	24	15.0	1	89.0	0.50	0.90	99.00	99.00
7	1	18	1	15.0	1	0.0	0.00	0.30	99.00	99.00
7	1	18	2	15.0	1	0.0	0.00	-0.30	99.00	99.00
7	1	18	3	15.0	1	299.0	0.50	-0.50	99.00	99.00
7	1	18	4	15.0	1	273.0	1.00	-0.80	99.00	99.00
7	1	18	5	15.0	1	265.0	1.00	-0.90	99.00	99.00
7	1	18	6	15.0	1	252.0	1.50	-1.00	99.00	99.00
7	1	18	7	15.0	1	239.0	1.50	-1.00	99.00	99.00
7	1	18	8	15.0	1	228.0	1.50	-1.00	99.00	99.00
7	1	18	9	15.0	1	253.0	1.50	1.00	99.00	99.00
7	1	18	10	15.0	1	272.0	1.50	3.30	99.00	99.00
7	1	18	11	15.0	1	277.0	1.00	5.40	99.00	99.00
7	1	18	12	15.0	1	297.0	1.00	7.10	99.00	99.00
7	1	18	13	15.0	1	321.0	1.50	8.10	99.00	99.00
7	1	18	14	15.0	1	335.0	1.50	9.00	99.00	99.00
7	1	18	15	15.0	1	341.0	2.10	9.40	99.00	99.00
7	1	18	16	15.0	1	0.0	0.00	9.30	99.00	99.00
7	1	18	17	15.0	1	39.0	1.50	8.50	99.00	99.00
7	1	18	18	15.0	1	69.0	1.00	7.30	99.00	99.00
7	1	18	19	15.0	1	165.0	0.50	5.90	99.00	99.00
7	1	18	20	15.0	1	230.0	0.50	4.60	99.00	99.00
7	1	18	21	15.0	1	239.0	0.50	3.60	99.00	99.00
7	1	18	22	15.0	1	0.0	0.00	2.90	99.00	99.00
7	1	18	23	15.0	1	93.0	0.50	2.30	99.00	99.00
7	1	18	24	15.0	1	86.0	0.50	1.60	99.00	99.00
7	1	19	1	15.0	1	107.0	0.50	1.30	99.00	99.00
7	1	19	2	15.0	1	157.0	0.50	1.10	99.00	99.00
7	1	19	3	15.0	1	205.0	0.50	1.00	99.00	99.00
7	1	19	4	15.0	1	226.0	1.00	0.90	99.00	99.00
7	1	19	5	15.0	1	253.0	1.50	1.00	99.00	99.00
7	1	19	6	15.0	1	248.0	2.10	1.10	99.00	99.00
7	1	19	7	15.0	1	252.0	2.10	1.10	99.00	99.00
7	1	19	8	15.0	1	252.0	2.60	1.10	99.00	99.00
7	1	19	9	15.0	1	257.0	2.10	2.90	99.00	99.00
7	1	19	10	15.0	1	271.0	2.60	6.40	99.00	99.00
7	1	19	11	15.0	1	284.0	1.50	8.60	99.00	99.00
7	1	19	12	15.0	1	289.0	1.00	10.30	99.00	99.00
7	1	19	13	15.0	1	320.0	1.00	11.30	99.00	99.00
7	1	19	14	15.0	1	340.0	1.00	11.90	99.00	99.00
7	1	19	15	15.0	1	341.0	1.50	12.00	99.00	99.00
7	1	19	16	15.0	1	343.0	2.10	11.60	99.00	99.00
7	1	19	17	15.0	1	354.0	1.50	10.60	99.00	99.00
7	1	19	18	15.0	1	348.0	0.50	9.30	99.00	99.00
7	1	19	19	15.0	1	0.0	0.00	7.80	99.00	99.00
7	1	19	20	15.0	1	0.0	0.00	6.50	99.00	99.00
7	1	19	21	15.0	1	77.0	0.50	5.30	99.00	99.00
7	1	19	22	15.0	1	81.0	0.50	4.40	99.00	99.00
7	1	19	23	15.0	1	0.0	0.00	4.10	99.00	99.00
7	1	19	24	15.0	1	286.0	0.50	4.40	99.00	99.00
7	1	20	1	15.0	1	299.0	1.50	4.60	99.00	99.00
7	1	20	2	15.0	1	313.0	2.10	4.60	99.00	99.00
7	1	20	3	15.0	1	297.0	2.10	4.10	99.00	99.00
7	1	20	4	15.0	1	294.0	2.10	3.60	99.00	99.00
7	1	20	5	15.0	1	287.0	2.10	3.10	99.00	99.00
7	1	20	6	15.0	1	283.0	2.60	2.60	99.00	99.00

7	1	20	7	15.0	1	285.0	2.60	2.30	99.00	99.00
7	1	20	8	15.0	1	278.0	2.10	2.00	99.00	99.00
7	1	20	9	15.0	1	320.0	2.60	3.60	99.00	99.00
7	1	20	10	15.0	1	335.0	1.50	5.10	99.00	99.00
7	1	20	11	15.0	1	298.0	1.00	7.00	99.00	99.00
7	1	20	12	15.0	1	296.0	1.00	8.30	99.00	99.00
7	1	20	13	15.0	1	313.0	1.50	9.30	99.00	99.00
7	1	20	14	15.0	1	310.0	1.50	10.10	99.00	99.00
7	1	20	15	15.0	1	322.0	1.50	10.50	99.00	99.00
7	1	20	16	15.0	1	323.0	2.10	11.60	99.00	99.00
7	1	20	17	15.0	1	321.0	1.50	11.30	99.00	99.00
7	1	20	18	15.0	1	309.0	0.50	10.30	99.00	99.00
7	1	20	19	15.0	1	0.0	0.00	9.10	99.00	99.00
7	1	20	20	15.0	1	0.0	0.00	8.10	99.00	99.00
7	1	20	21	15.0	1	159.0	0.50	7.00	99.00	99.00
7	1	20	22	15.0	1	154.0	0.50	6.10	99.00	99.00
7	1	20	23	15.0	1	149.0	0.50	5.60	99.00	99.00
7	1	20	24	15.0	1	218.0	0.50	5.10	99.00	99.00
7	1	21	1	15.0	1	249.0	0.50	4.90	99.00	99.00
7	1	21	2	15.0	1	260.0	1.00	4.50	99.00	99.00
7	1	21	3	15.0	1	269.0	1.50	4.10	99.00	99.00
7	1	21	4	15.0	1	280.0	2.10	3.80	99.00	99.00
7	1	21	5	15.0	1	277.0	2.10	3.50	99.00	99.00
7	1	21	6	15.0	1	271.0	1.50	3.10	99.00	99.00
7	1	21	7	15.0	1	259.0	1.50	2.90	99.00	99.00
7	1	21	8	15.0	1	247.0	1.50	2.60	99.00	99.00
7	1	21	9	15.0	1	325.0	1.00	4.60	99.00	99.00
7	1	21	10	15.0	1	320.0	0.50	6.60	99.00	99.00
7	1	21	11	15.0	1	302.0	1.00	8.40	99.00	99.00
7	1	21	12	15.0	1	305.0	1.50	9.60	99.00	99.00
7	1	21	13	15.0	1	309.0	2.10	10.90	99.00	99.00
7	1	21	14	15.0	1	316.0	2.10	11.60	99.00	99.00
7	1	21	15	15.0	1	320.0	1.50	12.10	99.00	99.00
7	1	21	16	15.0	1	288.0	0.50	12.10	99.00	99.00
7	1	21	17	15.0	1	178.0	1.00	11.50	99.00	99.00
7	1	21	18	15.0	1	174.0	1.50	10.10	99.00	99.00
7	1	21	19	15.0	1	176.0	3.10	9.10	99.00	99.00
7	1	21	20	15.0	1	199.0	4.60	8.00	99.00	99.00
7	1	21	21	15.0	1	206.0	4.10	6.80	99.00	99.00
7	1	21	22	15.0	1	217.0	4.10	6.10	99.00	99.00
7	1	21	23	15.0	1	228.0	3.60	5.60	99.00	99.00
7	1	21	24	15.0	1	229.0	3.60	5.10	99.00	99.00
7	1	22	1	15.0	1	252.0	3.60	4.60	99.00	99.00
7	1	22	2	15.0	1	271.0	4.10	4.40	99.00	99.00
7	1	22	3	15.0	1	280.0	4.10	4.00	99.00	99.00
7	1	22	4	15.0	1	294.0	3.60	3.60	99.00	99.00
7	1	22	5	15.0	1	305.0	2.60	3.10	99.00	99.00
7	1	22	6	15.0	1	292.0	2.10	2.80	99.00	99.00
7	1	22	7	15.0	1	267.0	1.50	2.50	99.00	99.00
7	1	22	8	15.0	1	272.0	1.50	2.30	99.00	99.00
7	1	22	9	15.0	1	268.0	1.00	4.10	99.00	99.00
7	1	22	10	15.0	1	294.0	0.50	6.80	99.00	99.00
7	1	22	11	15.0	1	0.0	0.00	8.60	99.00	99.00
7	1	22	12	15.0	1	343.0	0.50	9.90	99.00	99.00
7	1	22	13	15.0	1	337.0	1.00	10.90	99.00	99.00
7	1	22	14	15.0	1	327.0	1.50	11.60	99.00	99.00
7	1	22	15	15.0	1	335.0	2.10	12.00	99.00	99.00
7	1	22	16	15.0	1	4.0	2.10	11.90	99.00	99.00
7	1	22	17	15.0	1	29.0	2.10	11.10	99.00	99.00
7	1	22	18	15.0	1	46.0	2.10	9.90	99.00	99.00
7	1	22	19	15.0	1	75.0	0.50	8.60	99.00	99.00
7	1	22	20	15.0	1	0.0	0.00	7.40	99.00	99.00
7	1	22	21	15.0	1	0.0	0.00	6.40	99.00	99.00
7	1	22	22	15.0	1	0.0	0.00	5.50	99.00	99.00
7	1	22	23	15.0	1	0.0	0.00	4.90	99.00	99.00
7	1	22	24	15.0	1	0.0	0.00	4.30	99.00	99.00
7	1	23	1	15.0	1	0.0	0.00	3.80	99.00	99.00
7	1	23	2	15.0	1	307.0	0.50	3.40	99.00	99.00
7	1	23	3	15.0	1	320.0	1.00	3.10	99.00	99.00
7	1	23	4	15.0	1	330.0	1.00	2.80	99.00	99.00
7	1	23	5	15.0	1	329.0	1.00	2.50	99.00	99.00
7	1	23	6	15.0	1	321.0	0.50	2.10	99.00	99.00
7	1	23	7	15.0	1	299.0	0.50	1.90	99.00	99.00
7	1	23	8	15.0	1	287.0	1.00	1.60	99.00	99.00
7	1	23	9	15.0	1	315.0	1.50	4.10	99.00	99.00
7	1	23	10	15.0	1	299.0	1.50	6.10	99.00	99.00
7	1	23	11	15.0	1	296.0	1.00	8.00	99.00	99.00

7	1	23	12	15.0	1	304.0	1.00	9.80	99.00	99.00
7	1	23	13	15.0	1	300.0	1.00	11.30	99.00	99.00
7	1	23	14	15.0	1	309.0	1.00	12.10	99.00	99.00
7	1	23	15	15.0	1	310.0	1.00	12.40	99.00	99.00
7	1	23	16	15.0	1	323.0	1.00	12.10	99.00	99.00
7	1	23	17	15.0	1	342.0	0.50	11.10	99.00	99.00
7	1	23	18	15.0	1	0.0	0.00	10.10	99.00	99.00
7	1	23	19	15.0	1	0.0	0.00	9.10	99.00	99.00
7	1	23	20	15.0	1	0.0	0.00	8.10	99.00	99.00
7	1	23	21	15.0	1	0.0	0.00	7.40	99.00	99.00
7	1	23	22	15.0	1	37.0	0.50	6.80	99.00	99.00
7	1	23	23	15.0	1	27.0	1.00	6.30	99.00	99.00
7	1	23	24	15.0	1	10.0	0.50	5.90	99.00	99.00
7	1	24	1	15.0	1	346.0	0.50	5.60	99.00	99.00
7	1	24	2	15.0	1	349.0	1.00	5.30	99.00	99.00
7	1	24	3	15.0	1	7.0	1.50	5.00	99.00	99.00
7	1	24	4	15.0	1	0.0	0.00	4.80	99.00	99.00
7	1	24	5	15.0	1	319.0	1.50	4.40	99.00	99.00
7	1	24	6	15.0	1	292.0	2.10	4.00	99.00	99.00
7	1	24	7	15.0	1	277.0	2.60	3.80	99.00	99.00
7	1	24	8	15.0	1	293.0	2.10	3.80	99.00	99.00
7	1	24	9	15.0	1	318.0	1.50	5.60	99.00	99.00
7	1	24	10	15.0	1	314.0	1.50	8.10	99.00	99.00
7	1	24	11	15.0	1	327.0	1.50	10.00	99.00	99.00
7	1	24	12	15.0	1	338.0	1.50	11.80	99.00	99.00
7	1	24	13	15.0	1	339.0	2.10	13.30	99.00	99.00
7	1	24	14	15.0	1	347.0	2.10	14.00	99.00	99.00
7	1	24	15	15.0	1	353.0	2.60	14.10	99.00	99.00
7	1	24	16	15.0	1	358.0	2.10	13.80	99.00	99.00
7	1	24	17	15.0	1	0.0	0.00	12.90	99.00	99.00
7	1	24	18	15.0	1	0.0	0.00	11.60	99.00	99.00
7	1	24	19	15.0	1	0.0	0.00	10.50	99.00	99.00
7	1	24	20	15.0	1	342.0	0.50	9.50	99.00	99.00
7	1	24	21	15.0	1	0.0	0.00	8.50	99.00	99.00
7	1	24	22	15.0	1	25.0	2.10	7.60	99.00	99.00
7	1	24	23	15.0	1	13.0	2.10	7.10	99.00	99.00
7	1	24	24	15.0	1	349.0	1.50	6.80	99.00	99.00
7	1	25	1	15.0	1	300.0	1.00	6.60	99.00	99.00
7	1	25	2	15.0	1	292.0	1.50	6.60	99.00	99.00
7	1	25	3	15.0	1	304.0	1.50	6.80	99.00	99.00
7	1	25	4	15.0	1	315.0	1.50	6.60	99.00	99.00
7	1	25	5	15.0	1	321.0	1.00	6.50	99.00	99.00
7	1	25	6	15.0	1	315.0	1.00	6.30	99.00	99.00
7	1	25	7	15.0	1	296.0	1.00	5.90	99.00	99.00
7	1	25	8	15.0	1	291.0	1.00	5.50	99.00	99.00
7	1	25	9	15.0	1	314.0	1.50	7.30	99.00	99.00
7	1	25	10	15.0	1	312.0	1.50	9.00	99.00	99.00
7	1	25	11	15.0	1	321.0	1.50	11.10	99.00	99.00
7	1	25	12	15.0	1	328.0	1.50	12.50	99.00	99.00
7	1	25	13	15.0	1	333.0	2.10	13.50	99.00	99.00
7	1	25	14	15.0	1	342.0	1.50	14.10	99.00	99.00
7	1	25	15	15.0	1	0.0	0.00	14.40	99.00	99.00
7	1	25	16	15.0	1	10.0	1.50	16.40	99.00	99.00
7	1	25	17	15.0	1	36.0	1.50	15.60	99.00	99.00
7	1	25	18	15.0	1	71.0	0.50	14.50	99.00	99.00
7	1	25	19	15.0	1	0.0	0.00	13.10	99.00	99.00
7	1	25	20	15.0	1	0.0	0.00	11.80	99.00	99.00
7	1	25	21	15.0	1	0.0	0.00	10.90	99.00	99.00
7	1	25	22	15.0	1	0.0	0.00	10.10	99.00	99.00
7	1	25	23	15.0	1	67.0	0.50	9.40	99.00	99.00
7	1	25	24	15.0	1	50.0	1.00	8.60	99.00	99.00
7	1	26	1	15.0	1	32.0	1.50	8.10	99.00	99.00
7	1	26	2	15.0	1	25.0	1.50	7.90	99.00	99.00
7	1	26	3	15.0	1	8.0	1.00	7.60	99.00	99.00
7	1	26	4	15.0	1	328.0	0.50	7.10	99.00	99.00
7	1	26	5	15.0	1	324.0	1.00	6.60	99.00	99.00
7	1	26	6	15.0	1	306.0	1.50	6.10	99.00	99.00
7	1	26	7	15.0	1	313.0	2.10	5.90	99.00	99.00
7	1	26	8	15.0	1	316.0	2.10	5.90	99.00	99.00
7	1	26	9	15.0	1	333.0	2.10	7.90	99.00	99.00
7	1	26	10	15.0	1	324.0	2.10	10.00	99.00	99.00
7	1	26	11	15.0	1	322.0	2.10	12.00	99.00	99.00
7	1	26	12	15.0	1	316.0	2.10	13.80	99.00	99.00
7	1	26	13	15.0	1	316.0	2.10	14.90	99.00	99.00
7	1	26	14	15.0	1	322.0	2.10	15.60	99.00	99.00
7	1	26	15	15.0	1	316.0	2.60	15.90	99.00	99.00
7	1	26	16	15.0	1	320.0	2.10	15.60	99.00	99.00

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 7   1 26 17     15.0 1    325.0      2.10     14.90     99.00     99.00
 7   1 26 18     15.0 1    321.0      1.50     13.80     99.00     99.00
 7   1 26 19     15.0 1    244.0      0.50     12.40     99.00     99.00
 7   1 26 20     15.0 1    228.0      1.00     11.10     99.00     99.00
 7   1 26 21     15.0 1    256.0      1.50     10.40     99.00     99.00
 7   1 26 22     15.0 1    276.0      2.10      9.50     99.00     99.00
 7   1 26 23     15.0 1    304.0      3.10      8.50     99.00     99.00
 7   1 26 24     15.0 1    298.0      3.10      7.50     99.00     99.00
 7   1 27  1     15.0 1    291.0      3.10      7.10     99.00     99.00
 7   1 27  2     15.0 1    292.0      3.10      6.90     99.00     99.00
 7   1 27  3     15.0 1    291.0      2.60      6.60     99.00     99.00
 7   1 27  4     15.0 1    281.0      2.10      6.50     99.00     99.00
 7   1 27  5     15.0 1    268.0      1.50      6.30     99.00     99.00
 7   1 27  6     15.0 1    251.0      1.00      6.00     99.00     99.00
 7   1 27  7     15.0 1    217.0      0.50      5.60     99.00     99.00
 7   1 27  8     15.0 1    130.0      0.50      5.10     99.00     99.00
 7   1 27  9     15.0 1    121.0      0.50      5.40     99.00     99.00
 7   1 27 10     15.0 1      0.0      0.00      6.10     99.00     99.00
 7   1 27 11     15.0 1      0.0      0.00      9.10     99.00     99.00
 7   1 27 12     15.0 1      0.0      0.00     11.90     99.00     99.00
 7   1 27 13     15.0 1      0.0      0.00     13.40     99.00     99.00
 7   1 27 14     15.0 1    287.0      0.50     14.40     99.00     99.00
 7   1 27 15     15.0 1    324.0      1.00     14.80     99.00     99.00
 7   1 27 16     15.0 1    336.0      1.50     14.80     99.00     99.00
 7   1 27 17     15.0 1    348.0      2.10     14.10     99.00     99.00
 7   1 27 18     15.0 1    241.0      1.00     12.60     99.00     99.00
 7   1 27 19     15.0 1    186.0      2.60     11.40     99.00     99.00
 7   1 27 20     15.0 1      0.0      0.00     11.00     99.00     99.00
 7   1 27 21     15.0 1    328.0      1.00     10.80     99.00     99.00
 7   1 27 22     15.0 1    331.0      1.50     10.80     99.00     99.00
 7   1 27 23     15.0 1    316.0      1.00     10.60     99.00     99.00
 7   1 27 24     15.0 1      0.0      0.00     10.40     99.00     99.00
 7   1 28  1     15.0 1      0.0      0.00      9.90     99.00     99.00
 7   1 28  2     15.0 1     60.0      0.50      8.40     99.00     99.00
 7   1 28  3     15.0 1     47.0      1.50      8.10     99.00     99.00
 7   1 28  4     15.0 1     54.0      2.10      8.30     99.00     99.00
 7   1 28  5     15.0 1     72.0      2.10      7.90     99.00     99.00
 7   1 28  6     15.0 1     67.0      1.50      7.50     99.00     99.00
 7   1 28  7     15.0 1     36.0      0.50      7.30     99.00     99.00
 7   1 28  8     15.0 1     19.0      0.50      7.00     99.00     99.00
 7   1 28  9     15.0 1    319.0      0.50      7.60     99.00     99.00
 7   1 28 10     15.0 1    294.0      1.00      8.40     99.00     99.00
 7   1 28 11     15.0 1    294.0      2.10      9.10     99.00     99.00
 7   1 28 12     15.0 1    296.0      2.60     10.10     99.00     99.00
 7   1 28 13     15.0 1    298.0      2.60     11.30     99.00     99.00
 7   1 28 14     15.0 1    325.0      2.10     13.00     99.00     99.00
 7   1 28 15     15.0 1    341.0      2.10     13.80     99.00     99.00
 7   1 28 16     15.0 1    352.0      2.60     13.90     99.00     99.00
 7   1 28 17     15.0 1      0.0      0.00     13.50     99.00     99.00
 7   1 28 18     15.0 1      0.0      0.00     13.00     99.00     99.00
 7   1 28 19     15.0 1    348.0      1.50     12.50     99.00     99.00
 7   1 28 20     15.0 1    310.0      1.00     11.80     99.00     99.00
 7   1 28 21     15.0 1    307.0      1.00     11.10     99.00     99.00
 7   1 28 22     15.0 1    301.0      1.50     10.60     99.00     99.00
 7   1 28 23     15.0 1    308.0      2.10     10.60     99.00     99.00
 7   1 28 24     15.0 1    318.0      2.10     10.40     99.00     99.00
 7   1 29  1     15.0 1    287.0      2.60     10.10     99.00     99.00
 7   1 29  2     15.0 1    292.0      3.60      9.50     99.00     99.00
 7   1 29  3     15.0 1    305.0      3.10      9.10     99.00     99.00
 7   1 29  4     15.0 1    301.0      3.10      8.60     99.00     99.00
 7   1 29  5     15.0 1    298.0      3.10      8.30     99.00     99.00
 7   1 29  6     15.0 1    294.0      3.10      8.10     99.00     99.00
 7   1 29  7     15.0 1    293.0      3.10      7.60     99.00     99.00
 7   1 29  8     15.0 1    304.0      2.60      7.60     99.00     99.00
 7   1 29  9     15.0 1    323.0      2.60      9.60     99.00     99.00
 7   1 29 10     15.0 1    309.0      2.10     11.30     99.00     99.00
 7   1 29 11     15.0 1    313.0      2.10     13.10     99.00     99.00
 7   1 29 12     15.0 1    320.0      2.10     14.60     99.00     99.00
 7   1 29 13     15.0 1    333.0      1.50     15.80     99.00     99.00
 7   1 29 14     15.0 1    331.0      1.50     16.50     99.00     99.00
 7   1 29 15     15.0 1    345.0      1.50     16.80     99.00     99.00
 7   1 29 16     15.0 1    294.0      0.50     16.60     99.00     99.00
 7   1 29 17     15.0 1    280.0      1.00     16.10     99.00     99.00
 7   1 29 18     15.0 1    267.0      0.50     15.60     99.00     99.00
 7   1 29 19     15.0 1    273.0      0.50     15.00     99.00     99.00
 7   1 29 20     15.0 1    287.0      0.50     14.60     99.00     99.00
 7   1 29 21     15.0 1    289.0      0.50     14.10     99.00     99.00
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 7   1 29 22     15.0 1   272.0      0.50     13.90     99.00     99.00
 7   1 29 23     15.0 1   274.0      1.50     13.60     99.00     99.00
 7   1 29 24     15.0 1   278.0      2.10     13.10     99.00     99.00
 7   1 30  1     15.0 1   295.0      2.10     12.80     99.00     99.00
 7   1 30  2     15.0 1   302.0      2.10     12.50     99.00     99.00
 7   1 30  3     15.0 1   297.0      2.10     12.10     99.00     99.00
 7   1 30  4     15.0 1   303.0      2.10     11.80     99.00     99.00
 7   1 30  5     15.0 1   290.0      2.10     11.50     99.00     99.00
 7   1 30  6     15.0 1   288.0      2.10     11.10     99.00     99.00
 7   1 30  7     15.0 1   302.0      1.50     10.80     99.00     99.00
 7   1 30  8     15.0 1   335.0      0.50     10.50     99.00     99.00
 7   1 30  9     15.0 1   357.0      2.60     11.00     99.00     99.00
 7   1 30 10     15.0 1     2.0      2.60     11.90     99.00     99.00
 7   1 30 11     15.0 1     2.0      2.10     12.80     99.00     99.00
 7   1 30 12     15.0 1   349.0      2.10     13.30     99.00     99.00
 7   1 30 13     15.0 1   354.0      3.10     13.50     99.00     99.00
 7   1 30 14     15.0 1   350.0      4.10     13.00     99.00     99.00
 7   1 30 15     15.0 1   348.0      4.10     12.10     99.00     99.00
 7   1 30 16     15.0 1    13.0      3.10     15.30     99.00     99.00
 7   1 30 17     15.0 1    22.0      3.60     14.10     99.00     99.00
 7   1 30 18     15.0 1    21.0      3.10     13.40     99.00     99.00
 7   1 30 19     15.0 1    14.0      1.50     13.10     99.00     99.00
 7   1 30 20     15.0 1   223.0      1.50     12.60     99.00     99.00
 7   1 30 21     15.0 1   218.0      2.10     12.50     99.00     99.00
 7   1 30 22     15.0 1   251.0      1.00     12.10     99.00     99.00
 7   1 30 23     15.0 1   301.0      1.00     11.90     99.00     99.00
 7   1 30 24     15.0 1   278.0      2.10     11.10     99.00     99.00
 7   1 31  1     15.0 1   274.0      2.60     10.00     99.00     99.00
 7   1 31  2     15.0 1   278.0      3.10      9.10     99.00     99.00
 7   1 31  3     15.0 1   292.0      3.60      8.30     99.00     99.00
 7   1 31  4     15.0 1   301.0      4.10      7.60     99.00     99.00
 7   1 31  5     15.0 1   313.0      3.60      6.90     99.00     99.00
 7   1 31  6     15.0 1   307.0      3.60      6.10     99.00     99.00
 7   1 31  7     15.0 1   335.0      3.60      5.80     99.00     99.00
 7   1 31  8     15.0 1   342.0      3.60      5.60     99.00     99.00
 7   1 31  9     15.0 1   346.0      2.10      5.40     99.00     99.00
 7   1 31 10     15.0 1   354.0      1.00      5.40     99.00     99.00
 7   1 31 11     15.0 1     0.0      0.00      5.60     99.00     99.00
 7   1 31 12     15.0 1   296.0      0.50      6.80     99.00     99.00
 7   1 31 13     15.0 1     0.0      0.00      9.50     99.00     99.00
 7   1 31 14     15.0 1   304.0      0.50     11.10     99.00     99.00
 7   1 31 15     15.0 1   319.0      1.00     12.00     99.00     99.00
 7   1 31 16     15.0 1   346.0      1.50     12.10     99.00     99.00
 7   1 31 17     15.0 1    28.0      1.00     11.90     99.00     99.00
 7   1 31 18     15.0 1    49.0      1.50     11.00     99.00     99.00
 7   1 31 19     15.0 1    76.0      1.00     10.00     99.00     99.00
 7   1 31 20     15.0 1   119.0      1.00      9.10     99.00     99.00
 7   1 31 21     15.0 1   141.0      1.50      8.10     99.00     99.00
 7   1 31 22     15.0 1   128.0      1.50      7.60     99.00     99.00
 7   1 31 23     15.0 1   106.0      2.10      6.90     99.00     99.00
 7   1 31 24     15.0 1   103.0      2.10      6.10     99.00     99.00
 7   2  1  1     15.0 1   113.0      1.00      5.60     99.00     99.00
 7   2  1  2     15.0 1   148.0      0.50      5.10     99.00     99.00
 7   2  1  3     15.0 1   297.0      0.50      5.10     99.00     99.00
 7   2  1  4     15.0 1   309.0      1.00      5.40     99.00     99.00
 7   2  1  5     15.0 1   327.0      2.60      5.60     99.00     99.00
 7   2  1  6     15.0 1   336.0      3.10      5.30     99.00     99.00
 7   2  1  7     15.0 1   339.0      2.60      5.10     99.00     99.00
 7   2  1  8     15.0 1   326.0      2.10      5.00     99.00     99.00
 7   2  1  9     15.0 1   320.0      1.50      5.10     99.00     99.00
 7   2  1 10     15.0 1   314.0      1.50      5.40     99.00     99.00
 7   2  1 11     15.0 1   296.0      1.00      5.90     99.00     99.00
 7   2  1 12     15.0 1   276.0      1.00      6.60     99.00     99.00
 7   2  1 13     15.0 1   284.0      1.00      7.40     99.00     99.00
 7   2  1 14     15.0 1     0.0      0.00      8.10     99.00     99.00
 7   2  1 15     15.0 1    46.0      1.00      9.00     99.00     99.00
 7   2  1 16     15.0 1    56.0      1.50      9.10     99.00     99.00
 7   2  1 17     15.0 1    68.0      2.60      8.60     99.00     99.00
 7   2  1 18     15.0 1    72.0      2.60      7.90     99.00     99.00
 7   2  1 19     15.0 1    66.0      1.50      7.10     99.00     99.00
 7   2  1 20     15.0 1    59.0      1.00      6.40     99.00     99.00
 7   2  1 21     15.0 1     0.0      0.00      5.80     99.00     99.00
 7   2  1 22     15.0 1    22.0      0.50      5.10     99.00     99.00
 7   2  1 23     15.0 1    21.0      1.00      4.30     99.00     99.00
 7   2  1 24     15.0 1    22.0      1.00      2.30     99.00     99.00
 7   2  2  1     15.0 1    32.0      1.00      2.00     99.00     99.00
 7   2  2  2     15.0 1    55.0      0.50      2.40     99.00     99.00
```

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 7  2  2  3    15.0 1    53.0     0.50     2.60    99.00    99.00
 7  2  2  4    15.0 1   355.0     0.50     3.10    99.00    99.00
 7  2  2  5    15.0 1   329.0     1.50     3.00    99.00    99.00
 7  2  2  6    15.0 1   323.0     1.50     2.60    99.00    99.00
 7  2  2  7    15.0 1   316.0     2.10     2.30    99.00    99.00
 7  2  2  8    15.0 1   306.0     2.60     2.40    99.00    99.00
 7  2  2  9    15.0 1   325.0     2.60     2.60    99.00    99.00
 7  2  2 10    15.0 1   326.0     1.50     2.90    99.00    99.00
 7  2  2 11    15.0 1   331.0     1.00     3.10    99.00    99.00
 7  2  2 12    15.0 1   326.0     1.00     3.50    99.00    99.00
 7  2  2 13    15.0 1   353.0     1.00     4.10    99.00    99.00
 7  2  2 14    15.0 1     6.0     1.00     5.90    99.00    99.00
 7  2  2 15    15.0 1    12.0     1.00     8.00    99.00    99.00
 7  2  2 16    15.0 1    10.0     1.50     8.80    99.00    99.00
 7  2  2 17    15.0 1    18.0     1.00     8.50    99.00    99.00
 7  2  2 18    15.0 1     0.0     0.00     7.60    99.00    99.00
 7  2  2 19    15.0 1     0.0     0.00     6.60    99.00    99.00
 7  2  2 20    15.0 1     0.0     0.00     5.80    99.00    99.00
 7  2  2 21    15.0 1     0.0     0.00     5.10    99.00    99.00
 7  2  2 22    15.0 1     0.0     0.00     4.50    99.00    99.00
 7  2  2 23    15.0 1     0.0     0.00     2.60    99.00    99.00
 7  2  2 24    15.0 1     0.0     0.00     0.90    99.00    99.00
 7  2  3  1    15.0 1     0.0     0.00     0.50    99.00    99.00
 7  2  3  2    15.0 1     0.0     0.00     0.40    99.00    99.00
 7  2  3  3    15.0 1     0.0     0.00     0.60    99.00    99.00
 7  2  3  4    15.0 1     0.0     0.00     0.50    99.00    99.00
 7  2  3  5    15.0 1     0.0     0.00     0.50    99.00    99.00
 7  2  3  6    15.0 1     0.0     0.00     0.50    99.00    99.00
 7  2  3  7    15.0 1   140.0     0.50     0.50    99.00    99.00
 7  2  3  8    15.0 1     0.0     0.00     0.90    99.00    99.00
 7  2  3  9    15.0 1     0.0     0.00     2.40    99.00    99.00
 7  2  3 10    15.0 1   323.0     0.50     6.80    99.00    99.00
 7  2  3 11    15.0 1   335.0     1.00     9.50    99.00    99.00
 7  2  3 12    15.0 1   330.0     1.50    11.50    99.00    99.00
 7  2  3 13    15.0 1   338.0     1.50    13.40    99.00    99.00
 7  2  3 14    15.0 1   338.0     2.10    14.60    99.00    99.00
 7  2  3 15    15.0 1   352.0     2.60    14.80    99.00    99.00
 7  2  3 16    15.0 1   347.0     2.60    14.10    99.00    99.00
 7  2  3 17    15.0 1   347.0     2.10    13.10    99.00    99.00
 7  2  3 18    15.0 1   355.0     1.00    12.10    99.00    99.00
 7  2  3 19    15.0 1     0.0     0.00    10.90    99.00    99.00
 7  2  3 20    15.0 1     0.0     0.00    10.00    99.00    99.00
 7  2  3 21    15.0 1     0.0     0.00     9.60    99.00    99.00
 7  2  3 22    15.0 1    18.0     0.50     9.00    99.00    99.00
 7  2  3 23    15.0 1    23.0     0.50     8.40    99.00    99.00
 7  2  3 24    15.0 1     0.0     0.00     7.80    99.00    99.00
 7  2  4  1    15.0 1     0.0     0.00     7.10    99.00    99.00
 7  2  4  2    15.0 1     0.0     0.00     6.50    99.00    99.00
 7  2  4  3    15.0 1     0.0     0.00     6.00    99.00    99.00
 7  2  4  4    15.0 1     0.0     0.00     5.60    99.00    99.00
 7  2  4  5    15.0 1     0.0     0.00     5.30    99.00    99.00
 7  2  4  6    15.0 1     0.0     0.00     5.00    99.00    99.00
 7  2  4  7    15.0 1    77.0     0.50     4.80    99.00    99.00
 7  2  4  8    15.0 1    79.0     0.50     5.00    99.00    99.00
 7  2  4  9    15.0 1     0.0     0.00     7.90    99.00    99.00
 7  2  4 10    15.0 1   306.0     1.00    11.80    99.00    99.00
 7  2  4 11    15.0 1   335.0     1.00    13.90    99.00    99.00
 7  2  4 12    15.0 1   343.0     1.00    15.60    99.00    99.00
 7  2  4 13    15.0 1   343.0     1.00    17.00    99.00    99.00
 7  2  4 14    15.0 1   347.0     1.50    17.90    99.00    99.00
 7  2  4 15    15.0 1   355.0     2.10    18.30    99.00    99.00
 7  2  4 16    15.0 1   352.0     2.10    20.80    99.00    99.00
 7  2  4 17    15.0 1   346.0     2.10    20.00    99.00    99.00
 7  2  4 18    15.0 1   352.0     1.50    18.80    99.00    99.00
 7  2  4 19    15.0 1    45.0     0.50    17.50    99.00    99.00
 7  2  4 20    15.0 1     0.0     0.00    16.40    99.00    99.00
 7  2  4 21    15.0 1    16.0     0.50    15.50    99.00    99.00
 7  2  4 22    15.0 1    24.0     1.00    15.00    99.00    99.00
 7  2  4 23    15.0 1    22.0     2.10    14.40    99.00    99.00
 7  2  4 24    15.0 1    18.0     2.10    14.10    99.00    99.00
 7  2  5  1    15.0 1     6.0     2.10    13.80    99.00    99.00
 7  2  5  2    15.0 1     9.0     1.50    13.50    99.00    99.00
 7  2  5  3    15.0 1     0.0     0.00    13.00    99.00    99.00
 7  2  5  4    15.0 1    12.0     0.50    12.60    99.00    99.00
 7  2  5  5    15.0 1    19.0     1.00    12.30    99.00    99.00
 7  2  5  6    15.0 1    16.0     1.00    12.00    99.00    99.00
 7  2  5  7    15.0 1    29.0     1.00    11.80    99.00    99.00
```

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 7  2  5  8    15.0 1   28.0     1.00    11.60    99.00    99.00
 7  2  5  9    15.0 1  350.0     1.00    12.50    99.00    99.00
 7  2  5 10    15.0 1  325.0     2.10    15.00    99.00    99.00
 7  2  5 11    15.0 1  312.0     1.50    16.10    99.00    99.00
 7  2  5 12    15.0 1  322.0     2.10    17.60    99.00    99.00
 7  2  5 13    15.0 1  345.0     2.60    18.60    99.00    99.00
 7  2  5 14    15.0 1  346.0     3.10    19.10    99.00    99.00
 7  2  5 15    15.0 1   14.0     3.10    18.80    99.00    99.00
 7  2  5 16    15.0 1   25.0     3.60    18.10    99.00    99.00
 7  2  5 17    15.0 1   23.0     3.60    17.40    99.00    99.00
 7  2  5 18    15.0 1   37.0     2.60    16.90    99.00    99.00
 7  2  5 19    15.0 1   35.0     1.50    16.40    99.00    99.00
 7  2  5 20    15.0 1    2.0     1.00    15.90    99.00    99.00
 7  2  5 21    15.0 1  319.0     1.50    15.10    99.00    99.00
 7  2  5 22    15.0 1  312.0     2.60    14.60    99.00    99.00
 7  2  5 23    15.0 1  314.0     3.10    14.10    99.00    99.00
 7  2  5 24    15.0 1  307.0     3.10    13.60    99.00    99.00
 7  2  6  1    15.0 1  318.0     2.60    13.30    99.00    99.00
 7  2  6  2    15.0 1  313.0     2.10    12.80    99.00    99.00
 7  2  6  3    15.0 1  310.0     1.00    12.50    99.00    99.00
 7  2  6  4    15.0 1  316.0     0.50    12.10    99.00    99.00
 7  2  6  5    15.0 1  338.0     0.50    11.80    99.00    99.00
 7  2  6  6    15.0 1  337.0     0.50    11.50    99.00    99.00
 7  2  6  7    15.0 1  344.0     0.50    11.30    99.00    99.00
 7  2  6  8    15.0 1  339.0     0.50    11.10    99.00    99.00
 7  2  6  9    15.0 1  344.0     0.50    11.50    99.00    99.00
 7  2  6 10    15.0 1  328.0     2.10    13.10    99.00    99.00
 7  2  6 11    15.0 1  318.0     1.50    14.40    99.00    99.00
 7  2  6 12    15.0 1  316.0     1.50    15.60    99.00    99.00
 7  2  6 13    15.0 1  324.0     1.50    16.40    99.00    99.00
 7  2  6 14    15.0 1  329.0     1.50    16.60    99.00    99.00
 7  2  6 15    15.0 1  345.0     1.50    16.80    99.00    99.00
 7  2  6 16    15.0 1  352.0     1.50    16.60    99.00    99.00
 7  2  6 17    15.0 1    0.0     0.00    16.00    99.00    99.00
 7  2  6 18    15.0 1    0.0     0.00    15.30    99.00    99.00
 7  2  6 19    15.0 1    0.0     0.00    14.60    99.00    99.00
 7  2  6 20    15.0 1    0.0     0.00    14.10    99.00    99.00
 7  2  6 21    15.0 1    0.0     0.00    13.90    99.00    99.00
 7  2  6 22    15.0 1  302.0     0.50    13.90    99.00    99.00
 7  2  6 23    15.0 1  327.0     0.50    13.90    99.00    99.00
 7  2  6 24    15.0 1  357.0     1.00    13.80    99.00    99.00
 7  2  7  1    15.0 1    8.0     1.00    13.60    99.00    99.00
 7  2  7  2    15.0 1   25.0     1.00    13.60    99.00    99.00
 7  2  7  3    15.0 1    0.0     0.00    13.60    99.00    99.00
 7  2  7  4    15.0 1    0.0     0.00    13.60    99.00    99.00
 7  2  7  5    15.0 1    0.0     0.00    13.40    99.00    99.00
 7  2  7  6    15.0 1  360.0     0.50    13.10    99.00    99.00
 7  2  7  7    15.0 1  352.0     0.50    13.00    99.00    99.00
 7  2  7  8    15.0 1  354.0     0.50    13.00    99.00    99.00
 7  2  7  9    15.0 1   84.0     0.50    13.10    99.00    99.00
 7  2  7 10    15.0 1    0.0     0.00    14.40    99.00    99.00
 7  2  7 11    15.0 1    0.0     0.00    15.30    99.00    99.00
 7  2  7 12    15.0 1    0.0     0.00    16.00    99.00    99.00
 7  2  7 13    15.0 1    0.0     0.00    16.50    99.00    99.00
 7  2  7 14    15.0 1  300.0     0.50    16.80    99.00    99.00
 7  2  7 15    15.0 1    1.0     0.50    17.00    99.00    99.00
 7  2  7 16    15.0 1   71.0     1.50    16.80    99.00    99.00
 7  2  7 17    15.0 1   74.0     2.10    16.30    99.00    99.00
 7  2  7 18    15.0 1   93.0     1.00    15.80    99.00    99.00
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 7  2  7 20    15.0 1    0.0     0.00    14.50    99.00    99.00
 7  2  7 21    15.0 1    0.0     0.00    13.60    99.00    99.00
 7  2  7 22    15.0 1  295.0     2.10    12.80    99.00    99.00
 7  2  7 23    15.0 1  303.0     3.60    11.60    99.00    99.00
 7  2  7 24    15.0 1  314.0     3.60    10.50    99.00    99.00
 7  2  8  1    15.0 1  330.0     3.10     9.60    99.00    99.00
 7  2  8  2    15.0 1  351.0     2.60     8.90    99.00    99.00
 7  2  8  3    15.0 1    0.0     0.00     8.50    99.00    99.00
 7  2  8  4    15.0 1   21.0     1.00     8.30    99.00    99.00
 7  2  8  5    15.0 1   30.0     0.50     8.40    99.00    99.00
 7  2  8  6    15.0 1  112.0     0.50     8.60    99.00    99.00
 7  2  8  7    15.0 1  101.0     0.50     8.60    99.00    99.00
 7  2  8  8    15.0 1  105.0     1.00     8.90    99.00    99.00
 7  2  8  9    15.0 1  121.0     1.00     9.80    99.00    99.00
 7  2  8 10    15.0 1  134.0     0.50    10.90    99.00    99.00
 7  2  8 11    15.0 1  116.0     0.50    12.30    99.00    99.00
 7  2  8 12    15.0 1    0.0     0.00    13.50    99.00    99.00
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 7  2  8 13    15.0 1     0.0     0.00    14.60    99.00    99.00
 7  2  8 14    15.0 1    72.0     0.50    15.30    99.00    99.00
 7  2  8 15    15.0 1    72.0     1.00    15.60    99.00    99.00
 7  2  8 16    15.0 1    53.0     0.50    15.60    99.00    99.00
 7  2  8 17    15.0 1     0.0     0.00    15.30    99.00    99.00
 7  2  8 18    15.0 1   259.0     0.50    14.80    99.00    99.00
 7  2  8 19    15.0 1   305.0     0.50    14.50    99.00    99.00
 7  2  8 20    15.0 1    27.0     0.50    14.30    99.00    99.00
 7  2  8 21    15.0 1    23.0     1.50    14.10    99.00    99.00
 7  2  8 22    15.0 1   349.0     2.10    14.10    99.00    99.00
 7  2  8 23    15.0 1   326.0     2.10    14.00    99.00    99.00
 7  2  8 24    15.0 1   332.0     2.10    13.60    99.00    99.00
 7  2  9  1    15.0 1   329.0     1.50    13.30    99.00    99.00
 7  2  9  2    15.0 1   344.0     0.50    12.90    99.00    99.00
 7  2  9  3    15.0 1     6.0     0.50    12.60    99.00    99.00
 7  2  9  4    15.0 1     0.0     0.00    12.50    99.00    99.00
 7  2  9  5    15.0 1     0.0     0.00    12.40    99.00    99.00
 7  2  9  6    15.0 1     0.0     0.00    12.40    99.00    99.00
 7  2  9  7    15.0 1     0.0     0.00    12.30    99.00    99.00
 7  2  9  8    15.0 1    77.0     0.50    12.10    99.00    99.00
 7  2  9  9    15.0 1    90.0     1.00    12.60    99.00    99.00
 7  2  9 10    15.0 1   101.0     1.00    14.00    99.00    99.00
 7  2  9 11    15.0 1   111.0     0.50    15.00    99.00    99.00
 7  2  9 12    15.0 1     0.0     0.00    15.90    99.00    99.00
 7  2  9 13    15.0 1   349.0     0.50    16.60    99.00    99.00
 7  2  9 14    15.0 1   356.0     1.50    16.90    99.00    99.00
 7  2  9 15    15.0 1     0.0     0.00    16.80    99.00    99.00
 7  2  9 16    15.0 1     8.0     3.10    16.90    99.00    99.00
 7  2  9 17    15.0 1    12.0     3.10    16.10    99.00    99.00
 7  2  9 18    15.0 1     7.0     2.60    15.60    99.00    99.00
 7  2  9 19    15.0 1     0.0     0.00    15.40    99.00    99.00
 7  2  9 20    15.0 1   339.0     1.50    15.30    99.00    99.00
 7  2  9 21    15.0 1   316.0     1.50    15.10    99.00    99.00
 7  2  9 22    15.0 1   325.0     1.50    14.90    99.00    99.00
 7  2  9 23    15.0 1   325.0     1.50    14.80    99.00    99.00
 7  2  9 24    15.0 1   331.0     1.50    14.60    99.00    99.00
 7  2 10  1    15.0 1   335.0     1.50    14.40    99.00    99.00
 7  2 10  2    15.0 1   349.0     2.10    14.00    99.00    99.00
 7  2 10  3    15.0 1    10.0     2.10    13.80    99.00    99.00
 7  2 10  4    15.0 1    21.0     2.10    13.60    99.00    99.00
 7  2 10  5    15.0 1    26.0     2.10    13.50    99.00    99.00
 7  2 10  6    15.0 1    45.0     2.10    13.50    99.00    99.00
 7  2 10  7    15.0 1    61.0     2.60    13.50    99.00    99.00
 7  2 10  8    15.0 1    79.0     2.10    13.50    99.00    99.00
 7  2 10  9    15.0 1    87.0     2.60    13.60    99.00    99.00
 7  2 10 10    15.0 1   100.0     2.60    14.10    99.00    99.00
 7  2 10 11    15.0 1   121.0     3.10    14.60    99.00    99.00
 7  2 10 12    15.0 1   122.0     3.60    15.10    99.00    99.00
 7  2 10 13    15.0 1   124.0     3.60    15.60    99.00    99.00
 7  2 10 14    15.0 1   119.0     4.10    16.10    99.00    99.00
 7  2 10 15    15.0 1   133.0     4.60    16.60    99.00    99.00
 7  2 10 16    15.0 1   135.0     4.60    16.50    99.00    99.00
 7  2 10 17    15.0 1   138.0     4.60    16.10    99.00    99.00
 7  2 10 18    15.0 1   144.0     4.10    15.60    99.00    99.00
 7  2 10 19    15.0 1   120.0     3.60    15.30    99.00    99.00
 7  2 10 20    15.0 1   127.0     3.60    15.30    99.00    99.00
 7  2 10 21    15.0 1   135.0     3.10    15.10    99.00    99.00
 7  2 10 22    15.0 1   144.0     3.60    15.10    99.00    99.00
 7  2 10 23    15.0 1   147.0     3.10    14.90    99.00    99.00
 7  2 10 24    15.0 1   161.0     3.10    14.80    99.00    99.00
 7  2 11  1    15.0 1   166.0     2.60    14.60    99.00    99.00
 7  2 11  2    15.0 1   193.0     2.60    14.60    99.00    99.00
 7  2 11  3    15.0 1   234.0     1.50    14.50    99.00    99.00
 7  2 11  4    15.0 1   282.0     2.10    14.00    99.00    99.00
 7  2 11  5    15.0 1   297.0     2.60    13.10    99.00    99.00
 7  2 11  6    15.0 1   316.0     3.10    12.30    99.00    99.00
 7  2 11  7    15.0 1   313.0     3.60    11.50    99.00    99.00
 7  2 11  8    15.0 1   288.0     3.10    11.50    99.00    99.00
 7  2 11  9    15.0 1   293.0     3.60    12.90    99.00    99.00
 7  2 11 10    15.0 1   315.0     2.60    14.10    99.00    99.00
 7  2 11 11    15.0 1   311.0     1.50    15.30    99.00    99.00
 7  2 11 12    15.0 1   321.0     1.00    16.10    99.00    99.00
 7  2 11 13    15.0 1     8.0     0.50    16.60    99.00    99.00
 7  2 11 14    15.0 1    42.0     1.00    17.00    99.00    99.00
 7  2 11 15    15.0 1    55.0     2.10    16.90    99.00    99.00
 7  2 11 16    15.0 1    35.0     1.50    17.10    99.00    99.00
 7  2 11 17    15.0 1    14.0     1.00    16.90    99.00    99.00
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7	2	11	18	15.0	1	307.0	0.50	16.10	99.00	99.00
7	2	11	19	15.0	1	281.0	2.10	15.30	99.00	99.00
7	2	11	20	15.0	1	283.0	4.10	13.60	99.00	99.00
7	2	11	21	15.0	1	281.0	3.60	12.10	99.00	99.00
7	2	11	22	15.0	1	286.0	3.10	11.40	99.00	99.00
7	2	11	23	15.0	1	276.0	3.10	10.80	99.00	99.00
7	2	11	24	15.0	1	274.0	3.60	10.40	99.00	99.00
7	2	12	1	15.0	1	279.0	4.10	10.40	99.00	99.00
7	2	12	2	15.0	1	279.0	4.10	10.50	99.00	99.00
7	2	12	3	15.0	1	284.0	3.10	10.50	99.00	99.00
7	2	12	4	15.0	1	271.0	2.10	10.40	99.00	99.00
7	2	12	5	15.0	1	269.0	1.50	10.40	99.00	99.00
7	2	12	6	15.0	1	272.0	2.10	10.30	99.00	99.00
7	2	12	7	15.0	1	283.0	2.60	10.00	99.00	99.00
7	2	12	8	15.0	1	282.0	2.10	9.90	99.00	99.00
7	2	12	9	15.0	1	286.0	2.10	10.00	99.00	99.00
7	2	12	10	15.0	1	302.0	2.10	10.40	99.00	99.00
7	2	12	11	15.0	1	305.0	0.50	11.10	99.00	99.00
7	2	12	12	15.0	1	0.0	0.00	12.10	99.00	99.00
7	2	12	13	15.0	1	0.0	0.00	13.00	99.00	99.00
7	2	12	14	15.0	1	321.0	0.50	13.40	99.00	99.00
7	2	12	15	15.0	1	328.0	1.50	13.40	99.00	99.00
7	2	12	16	15.0	1	354.0	2.10	13.30	99.00	99.00
7	2	12	17	15.0	1	358.0	1.50	12.90	99.00	99.00
7	2	12	18	15.0	1	322.0	1.50	12.60	99.00	99.00
7	2	12	19	15.0	1	305.0	1.50	12.10	99.00	99.00
7	2	12	20	15.0	1	280.0	2.10	11.90	99.00	99.00
7	2	12	21	15.0	1	292.0	2.60	11.40	99.00	99.00
7	2	12	22	15.0	1	305.0	2.60	11.10	99.00	99.00
7	2	12	23	15.0	1	298.0	2.60	11.00	99.00	99.00
7	2	12	24	15.0	1	305.0	3.10	10.80	99.00	99.00
7	2	13	1	15.0	1	304.0	4.10	10.60	99.00	99.00
7	2	13	2	15.0	1	315.0	3.60	10.50	99.00	99.00
7	2	13	3	15.0	1	319.0	4.60	10.50	99.00	99.00
7	2	13	4	15.0	1	327.0	4.10	10.40	99.00	99.00
7	2	13	5	15.0	1	314.0	4.10	10.30	99.00	99.00
7	2	13	6	15.0	1	312.0	5.10	9.60	99.00	99.00
7	2	13	7	15.0	1	307.0	4.10	8.50	99.00	99.00
7	2	13	8	15.0	1	320.0	5.70	9.10	99.00	99.00
7	2	13	9	15.0	1	329.0	5.10	10.10	99.00	99.00
7	2	13	10	15.0	1	341.0	4.10	11.10	99.00	99.00
7	2	13	11	15.0	1	334.0	3.60	11.90	99.00	99.00
7	2	13	12	15.0	1	331.0	3.60	12.60	99.00	99.00
7	2	13	13	15.0	1	329.0	3.60	13.30	99.00	99.00
7	2	13	14	15.0	1	327.0	3.60	13.80	99.00	99.00
7	2	13	15	15.0	1	340.0	4.10	14.10	99.00	99.00
7	2	13	16	15.0	1	339.0	4.60	14.00	99.00	99.00
7	2	13	17	15.0	1	350.0	3.10	13.40	99.00	99.00
7	2	13	18	15.0	1	345.0	3.10	12.60	99.00	99.00
7	2	13	19	15.0	1	324.0	2.10	12.00	99.00	99.00
7	2	13	20	15.0	1	286.0	1.50	11.30	99.00	99.00
7	2	13	21	15.0	1	269.0	2.60	10.40	99.00	99.00
7	2	13	22	15.0	1	269.0	2.60	9.40	99.00	99.00
7	2	13	23	15.0	1	278.0	3.10	8.60	99.00	99.00
7	2	13	24	15.0	1	286.0	3.60	8.10	99.00	99.00
7	2	14	1	15.0	1	290.0	3.10	7.60	99.00	99.00
7	2	14	2	15.0	1	292.0	2.60	7.10	99.00	99.00
7	2	14	3	15.0	1	296.0	2.10	6.60	99.00	99.00
7	2	14	4	15.0	1	286.0	1.00	6.30	99.00	99.00
7	2	14	5	15.0	1	308.0	1.00	6.10	99.00	99.00
7	2	14	6	15.0	1	315.0	1.00	5.80	99.00	99.00
7	2	14	7	15.0	1	280.0	1.00	5.30	99.00	99.00
7	2	14	8	15.0	1	274.0	1.00	5.50	99.00	99.00
7	2	14	9	15.0	1	343.0	2.10	8.10	99.00	99.00
7	2	14	10	15.0	1	343.0	1.50	9.60	99.00	99.00
7	2	14	11	15.0	1	328.0	1.50	11.10	99.00	99.00
7	2	14	12	15.0	1	334.0	1.50	12.40	99.00	99.00
7	2	14	13	15.0	1	342.0	2.10	13.60	99.00	99.00
7	2	14	14	15.0	1	337.0	2.10	14.40	99.00	99.00
7	2	14	15	15.0	1	355.0	2.10	14.80	99.00	99.00
7	2	14	16	15.0	1	353.0	1.50	14.60	99.00	99.00
7	2	14	17	15.0	1	0.0	0.00	14.40	99.00	99.00
7	2	14	18	15.0	1	0.0	0.00	13.50	99.00	99.00
7	2	14	19	15.0	1	0.0	0.00	12.10	99.00	99.00
7	2	14	20	15.0	1	177.0	0.50	11.00	99.00	99.00
7	2	14	21	15.0	1	191.0	0.50	9.90	99.00	99.00
7	2	14	22	15.0	1	198.0	1.00	9.10	99.00	99.00

7	2	14	23	15.0	1	208.0	1.00	8.60	99.00	99.00
7	2	14	24	15.0	1	223.0	1.00	8.10	99.00	99.00
7	2	15	1	15.0	1	233.0	1.00	7.60	99.00	99.00
7	2	15	2	15.0	1	242.0	1.00	7.10	99.00	99.00
7	2	15	3	15.0	1	252.0	1.50	6.80	99.00	99.00
7	2	15	4	15.0	1	270.0	1.50	6.40	99.00	99.00
7	2	15	5	15.0	1	288.0	1.00	6.10	99.00	99.00
7	2	15	6	15.0	1	307.0	0.50	5.60	99.00	99.00
7	2	15	7	15.0	1	211.0	0.50	5.30	99.00	99.00
7	2	15	8	15.0	1	194.0	0.50	5.60	99.00	99.00
7	2	15	9	15.0	1	0.0	0.00	8.10	99.00	99.00
7	2	15	10	15.0	1	0.0	0.00	10.10	99.00	99.00
7	2	15	11	15.0	1	0.0	0.00	11.80	99.00	99.00
7	2	15	12	15.0	1	0.0	0.00	13.40	99.00	99.00
7	2	15	13	15.0	1	0.0	0.00	14.80	99.00	99.00
7	2	15	14	15.0	1	0.0	0.00	15.60	99.00	99.00
7	2	15	15	15.0	1	298.0	0.50	16.10	99.00	99.00
7	2	15	16	15.0	1	306.0	1.00	16.40	99.00	99.00
7	2	15	17	15.0	1	314.0	1.00	16.10	99.00	99.00
7	2	15	18	15.0	1	0.0	0.00	15.10	99.00	99.00
7	2	15	19	15.0	1	0.0	0.00	13.90	99.00	99.00
7	2	15	20	15.0	1	175.0	1.00	12.80	99.00	99.00
7	2	15	21	15.0	1	161.0	1.50	11.90	99.00	99.00
7	2	15	22	15.0	1	154.0	1.50	11.10	99.00	99.00
7	2	15	23	15.0	1	130.0	1.50	10.60	99.00	99.00
7	2	15	24	15.0	1	134.0	1.00	10.10	99.00	99.00
7	2	16	1	15.0	1	155.0	1.00	9.50	99.00	99.00
7	2	16	2	15.0	1	171.0	1.50	9.10	99.00	99.00
7	2	16	3	15.0	1	192.0	1.50	9.10	99.00	99.00
7	2	16	4	15.0	1	224.0	1.50	8.90	99.00	99.00
7	2	16	5	15.0	1	251.0	1.50	8.60	99.00	99.00
7	2	16	6	15.0	1	279.0	2.10	8.50	99.00	99.00
7	2	16	7	15.0	1	295.0	2.60	8.60	99.00	99.00
7	2	16	8	15.0	1	300.0	2.60	8.80	99.00	99.00
7	2	16	9	15.0	1	298.0	2.10	9.10	99.00	99.00
7	2	16	10	15.0	1	304.0	1.50	9.10	99.00	99.00
7	2	16	11	15.0	1	295.0	0.50	9.30	99.00	99.00
7	2	16	12	15.0	1	0.0	0.00	10.00	99.00	99.00
7	2	16	13	15.0	1	53.0	0.50	12.10	99.00	99.00
7	2	16	14	15.0	1	335.0	0.50	15.00	99.00	99.00
7	2	16	15	15.0	1	326.0	1.00	16.40	99.00	99.00
7	2	16	16	15.0	1	340.0	1.50	16.80	99.00	99.00
7	2	16	17	15.0	1	52.0	0.50	16.60	99.00	99.00
7	2	16	18	15.0	1	119.0	1.00	15.60	99.00	99.00
7	2	16	19	15.0	1	142.0	2.10	14.60	99.00	99.00
7	2	16	20	15.0	1	154.0	3.10	14.00	99.00	99.00
7	2	16	21	15.0	1	164.0	3.60	13.30	99.00	99.00
7	2	16	22	15.0	1	159.0	3.10	12.80	99.00	99.00
7	2	16	23	15.0	1	151.0	2.60	12.40	99.00	99.00
7	2	16	24	15.0	1	154.0	2.60	12.00	99.00	99.00
7	2	17	1	15.0	1	166.0	1.50	11.60	99.00	99.00
7	2	17	2	15.0	1	272.0	1.00	11.30	99.00	99.00
7	2	17	3	15.0	1	301.0	1.50	10.80	99.00	99.00
7	2	17	4	15.0	1	314.0	1.50	10.30	99.00	99.00
7	2	17	5	15.0	1	301.0	1.00	10.00	99.00	99.00
7	2	17	6	15.0	1	247.0	1.00	9.40	99.00	99.00
7	2	17	7	15.0	1	255.0	1.00	8.30	99.00	99.00
7	2	17	8	15.0	1	341.0	0.50	8.10	99.00	99.00
7	2	17	9	15.0	1	318.0	0.50	11.30	99.00	99.00
7	2	17	10	15.0	1	311.0	1.00	14.40	99.00	99.00
7	2	17	11	15.0	1	355.0	1.50	16.80	99.00	99.00
7	2	17	12	15.0	1	4.0	2.60	18.60	99.00	99.00
7	2	17	13	15.0	1	0.0	0.00	20.50	99.00	99.00
7	2	17	14	15.0	1	0.0	0.00	21.80	99.00	99.00
7	2	17	15	15.0	1	0.0	0.00	22.10	99.00	99.00
7	2	17	16	15.0	1	0.0	0.00	21.50	99.00	99.00
7	2	17	17	15.0	1	9.0	4.60	19.60	99.00	99.00
7	2	17	18	15.0	1	19.0	4.10	18.10	99.00	99.00
7	2	17	19	15.0	1	24.0	3.60	17.60	99.00	99.00
7	2	17	20	15.0	1	0.0	0.00	17.10	99.00	99.00
7	2	17	21	15.0	1	0.0	0.00	16.90	99.00	99.00
7	2	17	22	15.0	1	22.0	2.10	16.40	99.00	99.00
7	2	17	23	15.0	1	353.0	1.50	15.60	99.00	99.00
7	2	17	24	15.0	1	326.0	1.50	14.90	99.00	99.00
7	2	18	1	15.0	1	323.0	2.60	14.10	99.00	99.00
7	2	18	2	15.0	1	333.0	3.60	13.60	99.00	99.00
7	2	18	3	15.0	1	333.0	3.60	13.00	99.00	99.00

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 7  2 18  4    15.0 1   324.0     3.10    12.50    99.00    99.00
 7  2 18  5    15.0 1   317.0     3.10    12.10    99.00    99.00
 7  2 18  6    15.0 1   320.0     3.10    12.00    99.00    99.00
 7  2 18  7    15.0 1   320.0     2.60    12.00    99.00    99.00
 7  2 18  8    15.0 1   324.0     2.10    12.00    99.00    99.00
 7  2 18  9    15.0 1   328.0     2.10    12.60    99.00    99.00
 7  2 18 10    15.0 1   348.0     3.10    13.60    99.00    99.00
 7  2 18 11    15.0 1   349.0     3.10    14.30    99.00    99.00
 7  2 18 12    15.0 1   347.0     3.10    15.10    99.00    99.00
 7  2 18 13    15.0 1   336.0     3.60    15.60    99.00    99.00
 7  2 18 14    15.0 1   337.0     4.10    15.60    99.00    99.00
 7  2 18 15    15.0 1   351.0     3.60    15.50    99.00    99.00
 7  2 18 16    15.0 1   346.0     2.60    15.10    99.00    99.00
 7  2 18 17    15.0 1     9.0     2.10    14.60    99.00    99.00
 7  2 18 18    15.0 1     0.0     0.00    14.00    99.00    99.00
 7  2 18 19    15.0 1   300.0     0.50    13.60    99.00    99.00
 7  2 18 20    15.0 1   274.0     1.50    13.40    99.00    99.00
 7  2 18 21    15.0 1   258.0     2.10    13.10    99.00    99.00
 7  2 18 22    15.0 1   263.0     2.60    12.90    99.00    99.00
 7  2 18 23    15.0 1   272.0     3.10    12.60    99.00    99.00
 7  2 18 24    15.0 1   295.0     3.60    12.30    99.00    99.00
 7  2 19  1    15.0 1   299.0     4.10    11.10    99.00    99.00
 7  2 19  2    15.0 1   299.0     3.10    10.30    99.00    99.00
 7  2 19  3    15.0 1   288.0     2.60     9.60    99.00    99.00
 7  2 19  4    15.0 1   286.0     3.10     9.80    99.00    99.00
 7  2 19  5    15.0 1   289.0     3.60     9.80    99.00    99.00
 7  2 19  6    15.0 1   278.0     3.60     9.50    99.00    99.00
 7  2 19  7    15.0 1   280.0     3.60     8.60    99.00    99.00
 7  2 19  8    15.0 1   317.0     4.60     9.40    99.00    99.00
 7  2 19  9    15.0 1   334.0     5.70    10.90    99.00    99.00
 7  2 19 10    15.0 1   341.0     5.10    12.10    99.00    99.00
 7  2 19 11    15.0 1   330.0     4.10    13.40    99.00    99.00
 7  2 19 12    15.0 1   333.0     4.10    14.30    99.00    99.00
 7  2 19 13    15.0 1   332.0     4.10    15.10    99.00    99.00
 7  2 19 14    15.0 1   332.0     4.10    15.60    99.00    99.00
 7  2 19 15    15.0 1   327.0     4.10    16.00    99.00    99.00
 7  2 19 16    15.0 1   327.0     4.10    15.60    99.00    99.00
 7  2 19 17    15.0 1   314.0     3.10    15.10    99.00    99.00
 7  2 19 18    15.0 1   307.0     4.10    14.00    99.00    99.00
 7  2 19 19    15.0 1   322.0     4.10    12.60    99.00    99.00
 7  2 19 20    15.0 1   320.0     3.10    11.80    99.00    99.00
 7  2 19 21    15.0 1   318.0     2.60    11.00    99.00    99.00
 7  2 19 22    15.0 1   299.0     1.50    10.10    99.00    99.00
 7  2 19 23    15.0 1   287.0     1.00     9.40    99.00    99.00
 7  2 19 24    15.0 1   278.0     1.00     8.60    99.00    99.00
 7  2 20  1    15.0 1   278.0     1.50     8.10    99.00    99.00
 7  2 20  2    15.0 1   293.0     1.50     7.50    99.00    99.00
 7  2 20  3    15.0 1   314.0     1.50     6.80    99.00    99.00
 7  2 20  4    15.0 1   311.0     1.50     6.10    99.00    99.00
 7  2 20  5    15.0 1   258.0     1.50     5.80    99.00    99.00
 7  2 20  6    15.0 1   263.0     2.60     5.60    99.00    99.00
 7  2 20  7    15.0 1   282.0     2.60     5.40    99.00    99.00
 7  2 20  8    15.0 1   315.0     1.50     5.80    99.00    99.00
 7  2 20  9    15.0 1   342.0     1.00     7.60    99.00    99.00
 7  2 20 10    15.0 1     0.0     0.00     9.50    99.00    99.00
 7  2 20 11    15.0 1     0.0     0.00    11.00    99.00    99.00
 7  2 20 12    15.0 1   292.0     0.50    12.40    99.00    99.00
 7  2 20 13    15.0 1   298.0     0.50    13.50    99.00    99.00
 7  2 20 14    15.0 1   310.0     0.50    14.40    99.00    99.00
 7  2 20 15    15.0 1   334.0     1.00    15.00    99.00    99.00
 7  2 20 16    15.0 1   346.0     1.50    15.10    99.00    99.00
 7  2 20 17    15.0 1     8.0     2.10    14.80    99.00    99.00
 7  2 20 18    15.0 1    37.0     2.10    13.60    99.00    99.00
 7  2 20 19    15.0 1    65.0     1.50    12.50    99.00    99.00
 7  2 20 20    15.0 1     0.0     0.00    11.10    99.00    99.00
 7  2 20 21    15.0 1   235.0     0.50    10.00    99.00    99.00
 7  2 20 22    15.0 1   256.0     1.50     9.00    99.00    99.00
 7  2 20 23    15.0 1   256.0     2.60     8.10    99.00    99.00
 7  2 20 24    15.0 1   260.0     2.60     7.50    99.00    99.00
 7  2 21  1    15.0 1   260.0     2.60     7.00    99.00    99.00
 7  2 21  2    15.0 1   274.0     2.10     6.00    99.00    99.00
 7  2 21  3    15.0 1   288.0     2.60     5.60    99.00    99.00
 7  2 21  4    15.0 1   298.0     2.10     5.60    99.00    99.00
 7  2 21  5    15.0 1   304.0     2.10     5.60    99.00    99.00
 7  2 21  6    15.0 1   288.0     1.50     5.60    99.00    99.00
 7  2 21  7    15.0 1   274.0     0.50     5.50    99.00    99.00
 7  2 21  8    15.0 1     0.0     0.00     5.30    99.00    99.00
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 7  2 21  9    15.0 1     0.0     0.00     5.30    99.00    99.00
 7  2 21 10    15.0 1     0.0     0.00     5.80    99.00    99.00
 7  2 21 11    15.0 1     0.0     0.00     7.60    99.00    99.00
 7  2 21 12    15.0 1     0.0     0.00    10.80    99.00    99.00
 7  2 21 13    15.0 1     0.0     0.00    12.60    99.00    99.00
 7  2 21 14    15.0 1   323.0     0.50    13.60    99.00    99.00
 7  2 21 15    15.0 1   338.0     1.50    13.90    99.00    99.00
 7  2 21 16    15.0 1     0.0     0.00    13.60    99.00    99.00
 7  2 21 17    15.0 1     8.0     3.10    12.80    99.00    99.00
 7  2 21 18    15.0 1    21.0     3.10    12.00    99.00    99.00
 7  2 21 19    15.0 1    12.0     3.10    11.60    99.00    99.00
 7  2 21 20    15.0 1     0.0     0.00    11.30    99.00    99.00
 7  2 21 21    15.0 1     0.0     0.00    10.60    99.00    99.00
 7  2 21 22    15.0 1    13.0     3.60    10.10    99.00    99.00
 7  2 21 23    15.0 1    32.0     3.10     9.80    99.00    99.00
 7  2 21 24    15.0 1    36.0     2.10     9.50    99.00    99.00
 7  2 22  1    15.0 1    56.0     1.50     9.10    99.00    99.00
 7  2 22  2    15.0 1    70.0     1.50     8.90    99.00    99.00
 7  2 22  3    15.0 1    90.0     1.50     8.60    99.00    99.00
 7  2 22  4    15.0 1    96.0     2.10     8.60    99.00    99.00
 7  2 22  5    15.0 1   114.0     3.10     8.40    99.00    99.00
 7  2 22  6    15.0 1   120.0     3.60     8.10    99.00    99.00
 7  2 22  7    15.0 1   135.0     4.60     7.60    99.00    99.00
 7  2 22  8    15.0 1   140.0     4.10     8.60    99.00    99.00
 7  2 22  9    15.0 1   144.0     4.10    10.40    99.00    99.00
 7  2 22 10    15.0 1   137.0     4.60    12.30    99.00    99.00
 7  2 22 11    15.0 1   164.0     2.60    13.90    99.00    99.00
 7  2 22 12    15.0 1    46.0     1.50    13.80    99.00    99.00
 7  2 22 13    15.0 1   289.0     0.50    14.60    99.00    99.00
 7  2 22 14    15.0 1   254.0     9.30    16.00    99.00    99.00
 7  2 22 15    15.0 1   254.0     8.20    15.80    99.00    99.00
 7  2 22 16    15.0 1   252.0     4.10    15.60    99.00    99.00
 7  2 22 17    15.0 1   273.0     4.60    14.40    99.00    99.00
 7  2 22 18    15.0 1   271.0     5.10    12.50    99.00    99.00
 7  2 22 19    15.0 1   268.0     4.60    11.00    99.00    99.00
 7  2 22 20    15.0 1   266.0     4.10     9.60    99.00    99.00
 7  2 22 21    15.0 1   256.0     3.60     8.80    99.00    99.00
 7  2 22 22    15.0 1   249.0     3.60     8.10    99.00    99.00
 7  2 22 23    15.0 1   255.0     3.60     7.50    99.00    99.00
 7  2 22 24    15.0 1   257.0     3.60     6.80    99.00    99.00
 7  2 23  1    15.0 1   266.0     3.10     6.60    99.00    99.00
 7  2 23  2    15.0 1   288.0     3.10     6.60    99.00    99.00
 7  2 23  3    15.0 1   310.0     3.60     6.40    99.00    99.00
 7  2 23  4    15.0 1   319.0     3.60     5.90    99.00    99.00
 7  2 23  5    15.0 1   311.0     4.10     5.30    99.00    99.00
 7  2 23  6    15.0 1   313.0     3.60     4.60    99.00    99.00
 7  2 23  7    15.0 1   315.0     3.10     4.60    99.00    99.00
 7  2 23  8    15.0 1   341.0     4.60     6.00    99.00    99.00
 7  2 23  9    15.0 1   352.0     4.60     7.30    99.00    99.00
 7  2 23 10    15.0 1   341.0     5.10     8.40    99.00    99.00
 7  2 23 11    15.0 1   329.0     5.10     9.10    99.00    99.00
 7  2 23 12    15.0 1   326.0     5.10     9.80    99.00    99.00
 7  2 23 13    15.0 1   326.0     5.70    10.50    99.00    99.00
 7  2 23 14    15.0 1   345.0     6.20    11.00    99.00    99.00
 7  2 23 15    15.0 1   336.0     6.70    11.10    99.00    99.00
 7  2 23 16    15.0 1   337.0     6.70    11.10    99.00    99.00
 7  2 23 17    15.0 1   326.0     4.10    10.30    99.00    99.00
 7  2 23 18    15.0 1   326.0     4.10     9.00    99.00    99.00
 7  2 23 19    15.0 1   335.0     3.60     8.00    99.00    99.00
 7  2 23 20    15.0 1   342.0     3.10     7.40    99.00    99.00
 7  2 23 21    15.0 1   342.0     1.50     6.80    99.00    99.00
 7  2 23 22    15.0 1   100.0     0.50     6.10    99.00    99.00
 7  2 23 23    15.0 1   138.0     1.50     5.50    99.00    99.00
 7  2 23 24    15.0 1   153.0     2.10     4.80    99.00    99.00
 7  2 24  1    15.0 1   153.0     3.10     4.40    99.00    99.00
 7  2 24  2    15.0 1   152.0     3.10     4.00    99.00    99.00
 7  2 24  3    15.0 1   162.0     2.60     3.60    99.00    99.00
 7  2 24  4    15.0 1   151.0     1.50     3.40    99.00    99.00
 7  2 24  5    15.0 1   124.0     1.00     2.90    99.00    99.00
 7  2 24  6    15.0 1   117.0     1.50     2.40    99.00    99.00
 7  2 24  7    15.0 1   126.0     2.60     2.10    99.00    99.00
 7  2 24  8    15.0 1   149.0     2.10     3.60    99.00    99.00
 7  2 24  9    15.0 1   181.0     1.00     6.10    99.00    99.00
 7  2 24 10    15.0 1     0.0     0.00     7.90    99.00    99.00
 7  2 24 11    15.0 1     0.0     0.00     9.40    99.00    99.00
 7  2 24 12    15.0 1     0.0     0.00    10.80    99.00    99.00
 7  2 24 13    15.0 1   291.0     0.50    12.00    99.00    99.00
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 7  2 24 14    15.0 1   295.0     0.50    12.90    99.00    99.00
 7  2 24 15    15.0 1   315.0     0.50    13.50    99.00    99.00
 7  2 24 16    15.0 1    23.0     1.00    12.60    99.00    99.00
 7  2 24 17    15.0 1    42.0     1.50    12.30    99.00    99.00
 7  2 24 18    15.0 1    64.0     2.10    11.50    99.00    99.00
 7  2 24 19    15.0 1   104.0     1.00    10.40    99.00    99.00
 7  2 24 20    15.0 1   204.0     1.00     9.50    99.00    99.00
 7  2 24 21    15.0 1   211.0     0.50     8.80    99.00    99.00
 7  2 24 22    15.0 1   255.0     1.00     8.40    99.00    99.00
 7  2 24 23    15.0 1   267.0     1.00     8.10    99.00    99.00
 7  2 24 24    15.0 1   287.0     0.50     7.60    99.00    99.00
 7  2 25  1    15.0 1     0.0     0.00     7.50    99.00    99.00
 7  2 25  2    15.0 1   125.0     1.50     6.80    99.00    99.00
 7  2 25  3    15.0 1   128.0     3.60     6.50    99.00    99.00
 7  2 25  4    15.0 1   137.0     3.60     6.60    99.00    99.00
 7  2 25  5    15.0 1   135.0     3.60     7.00    99.00    99.00
 7  2 25  6    15.0 1   133.0     4.60     7.30    99.00    99.00
 7  2 25  7    15.0 1   142.0     4.60     7.40    99.00    99.00
 7  2 25  8    15.0 1   143.0     4.10     7.50    99.00    99.00
 7  2 25  9    15.0 1   142.0     4.10     7.80    99.00    99.00
 7  2 25 10    15.0 1   116.0     3.60     9.30    99.00    99.00
 7  2 25 11    15.0 1   103.0     1.00    12.00    99.00    99.00
 7  2 25 12    15.0 1   306.0     1.50    14.10    99.00    99.00
 7  2 25 13    15.0 1   286.0     4.10    14.90    99.00    99.00
 7  2 25 14    15.0 1   290.0     5.10    15.10    99.00    99.00
 7  2 25 15    15.0 1   295.0     5.10    15.10    99.00    99.00
 7  2 25 16    15.0 1   281.0     3.60    14.60    99.00    99.00
 7  2 25 17    15.0 1   288.0     4.10    13.60    99.00    99.00
 7  2 25 18    15.0 1   281.0     4.60    12.30    99.00    99.00
 7  2 25 19    15.0 1   278.0     4.60    11.30    99.00    99.00
 7  2 25 20    15.0 1   277.0     4.60    10.60    99.00    99.00
 7  2 25 21    15.0 1   280.0     4.10    10.10    99.00    99.00
 7  2 25 22    15.0 1   276.0     3.60     9.60    99.00    99.00
 7  2 25 23    15.0 1   284.0     3.10     9.10    99.00    99.00
 7  2 25 24    15.0 1   284.0     3.10     8.60    99.00    99.00
 7  2 26  1    15.0 1   281.0     2.60     8.30    99.00    99.00
 7  2 26  2    15.0 1   268.0     2.10     7.90    99.00    99.00
 7  2 26  3    15.0 1   260.0     1.50     7.40    99.00    99.00
 7  2 26  4    15.0 1   202.0     0.50     7.10    99.00    99.00
 7  2 26  5    15.0 1   145.0     0.50     7.10    99.00    99.00
 7  2 26  6    15.0 1   120.0     2.10     7.10    99.00    99.00
 7  2 26  7    15.0 1   123.0     3.10     7.10    99.00    99.00
 7  2 26  8    15.0 1   122.0     3.10     7.60    99.00    99.00
 7  2 26  9    15.0 1   129.0     2.10     8.90    99.00    99.00
 7  2 26 10    15.0 1   121.0     2.10    10.40    99.00    99.00
 7  2 26 11    15.0 1   120.0     2.10    11.60    99.00    99.00
 7  2 26 12    15.0 1   130.0     3.10    11.80    99.00    99.00
 7  2 26 13    15.0 1   138.0     3.10    12.00    99.00    99.00
 7  2 26 14    15.0 1   131.0     3.10    12.30    99.00    99.00
 7  2 26 15    15.0 1   126.0     2.60    12.60    99.00    99.00
 7  2 26 16    15.0 1   162.0     2.10    13.10    99.00    99.00
 7  2 26 17    15.0 1   167.0     2.10    13.00    99.00    99.00
 7  2 26 18    15.0 1   154.0     3.60    12.40    99.00    99.00
 7  2 26 19    15.0 1   153.0     4.10    11.60    99.00    99.00
 7  2 26 20    15.0 1   164.0     4.10    11.30    99.00    99.00
 7  2 26 21    15.0 1   175.0     3.60    11.10    99.00    99.00
 7  2 26 22    15.0 1   191.0     3.10    10.80    99.00    99.00
 7  2 26 23    15.0 1   225.0     3.10    10.40    99.00    99.00
 7  2 26 24    15.0 1   244.0     3.10    10.00    99.00    99.00
 7  2 27  1    15.0 1   258.0     3.10     9.60    99.00    99.00
 7  2 27  2    15.0 1   267.0     3.10     9.10    99.00    99.00
 7  2 27  3    15.0 1   293.0     3.60     8.60    99.00    99.00
 7  2 27  4    15.0 1   302.0     3.60     8.10    99.00    99.00
 7  2 27  5    15.0 1   305.0     3.60     7.60    99.00    99.00
 7  2 27  6    15.0 1   304.0     3.10     7.40    99.00    99.00
 7  2 27  7    15.0 1   313.0     2.60     7.10    99.00    99.00
 7  2 27  8    15.0 1   313.0     3.60     8.40    99.00    99.00
 7  2 27  9    15.0 1   335.0     3.10     9.80    99.00    99.00
 7  2 27 10    15.0 1   319.0     2.60    10.90    99.00    99.00
 7  2 27 11    15.0 1   321.0     1.50    11.60    99.00    99.00
 7  2 27 12    15.0 1   309.0     0.50    12.10    99.00    99.00
 7  2 27 13    15.0 1     0.0     0.00    12.60    99.00    99.00
 7  2 27 14    15.0 1   235.0     0.50    13.10    99.00    99.00
 7  2 27 15    15.0 1   225.0     2.10    13.10    99.00    99.00
 7  2 27 16    15.0 1   235.0     3.60    13.10    99.00    99.00
 7  2 27 17    15.0 1   256.0     2.60    12.80    99.00    99.00
 7  2 27 18    15.0 1   301.0     2.10    12.10    99.00    99.00
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7	2	27	19	15.0	1	298.0	2.60	11.10	99.00	99.00
7	2	27	20	15.0	1	289.0	2.60	10.30	99.00	99.00
7	2	27	21	15.0	1	266.0	2.60	9.60	99.00	99.00
7	2	27	22	15.0	1	265.0	3.10	9.10	99.00	99.00
7	2	27	23	15.0	1	258.0	3.10	9.00	99.00	99.00
7	2	27	24	15.0	1	267.0	3.10	8.80	99.00	99.00
7	2	28	1	15.0	1	279.0	3.60	8.60	99.00	99.00
7	2	28	2	15.0	1	289.0	4.10	8.30	99.00	99.00
7	2	28	3	15.0	1	296.0	4.10	7.10	99.00	99.00
7	2	28	4	15.0	1	297.0	4.10	6.10	99.00	99.00
7	2	28	5	15.0	1	300.0	3.60	5.40	99.00	99.00
7	2	28	6	15.0	1	299.0	3.10	5.00	99.00	99.00
7	2	28	7	15.0	1	296.0	2.10	4.60	99.00	99.00
7	2	28	8	15.0	1	340.0	2.60	6.30	99.00	99.00
7	2	28	9	15.0	1	7.0	1.50	7.60	99.00	99.00
7	2	28	10	15.0	1	6.0	0.50	8.80	99.00	99.00
7	2	28	11	15.0	1	339.0	1.00	9.60	99.00	99.00
7	2	28	12	15.0	1	329.0	2.10	10.30	99.00	99.00
7	2	28	13	15.0	1	330.0	3.10	10.90	99.00	99.00
7	2	28	14	15.0	1	335.0	4.10	11.40	99.00	99.00
7	2	28	15	15.0	1	332.0	5.10	11.60	99.00	99.00
7	2	28	16	15.0	1	339.0	5.10	11.50	99.00	99.00
7	2	28	17	15.0	1	342.0	3.60	11.00	99.00	99.00
7	2	28	18	15.0	1	343.0	4.10	9.80	99.00	99.00
7	2	28	19	15.0	1	337.0	4.10	8.60	99.00	99.00
7	2	28	20	15.0	1	340.0	4.10	7.90	99.00	99.00
7	2	28	21	15.0	1	349.0	3.60	7.10	99.00	99.00
7	2	28	22	15.0	1	5.0	3.10	6.30	99.00	99.00
7	2	28	23	15.0	1	352.0	2.60	5.80	99.00	99.00
7	2	28	24	15.0	1	345.0	1.50	5.30	99.00	99.00
7	3	1	1	15.0	1	299.0	0.50	5.00	99.00	99.00
7	3	1	2	15.0	1	0.0	0.00	4.90	99.00	99.00
7	3	1	3	15.0	1	98.0	0.50	4.60	99.00	99.00
7	3	1	4	15.0	1	127.0	1.00	4.50	99.00	99.00
7	3	1	5	15.0	1	144.0	1.00	4.40	99.00	99.00
7	3	1	6	15.0	1	148.0	1.50	4.30	99.00	99.00
7	3	1	7	15.0	1	175.0	1.00	4.10	99.00	99.00
7	3	1	8	15.0	1	182.0	2.10	5.00	99.00	99.00
7	3	1	9	15.0	1	178.0	1.50	6.30	99.00	99.00
7	3	1	10	15.0	1	184.0	0.50	7.30	99.00	99.00
7	3	1	11	15.0	1	0.0	0.00	8.30	99.00	99.00
7	3	1	12	15.0	1	0.0	0.00	9.50	99.00	99.00
7	3	1	13	15.0	1	305.0	1.00	10.50	99.00	99.00
7	3	1	14	15.0	1	315.0	2.10	11.10	99.00	99.00
7	3	1	15	15.0	1	334.0	3.10	11.60	99.00	99.00
7	3	1	16	15.0	1	335.0	3.60	11.80	99.00	99.00
7	3	1	17	15.0	1	341.0	2.60	11.50	99.00	99.00
7	3	1	18	15.0	1	345.0	3.10	10.90	99.00	99.00
7	3	1	19	15.0	1	329.0	2.60	10.10	99.00	99.00
7	3	1	20	15.0	1	309.0	2.10	9.30	99.00	99.00
7	3	1	21	15.0	1	309.0	1.50	8.30	99.00	99.00
7	3	1	22	15.0	1	329.0	1.00	7.40	99.00	99.00
7	3	1	23	15.0	1	43.0	0.50	6.60	99.00	99.00
7	3	1	24	15.0	1	130.0	1.00	5.80	99.00	99.00
7	3	2	1	15.0	1	155.0	1.50	5.10	99.00	99.00
7	3	2	2	15.0	1	169.0	1.00	4.60	99.00	99.00
7	3	2	3	15.0	1	219.0	0.50	4.30	99.00	99.00
7	3	2	4	15.0	1	270.0	1.00	4.00	99.00	99.00
7	3	2	5	15.0	1	270.0	1.00	3.80	99.00	99.00
7	3	2	6	15.0	1	265.0	1.00	3.60	99.00	99.00
7	3	2	7	15.0	1	226.0	1.00	3.40	99.00	99.00
7	3	2	8	15.0	1	245.0	0.50	4.80	99.00	99.00
7	3	2	9	15.0	1	0.0	0.00	7.10	99.00	99.00
7	3	2	10	15.0	1	0.0	0.00	8.60	99.00	99.00
7	3	2	11	15.0	1	0.0	0.00	10.00	99.00	99.00
7	3	2	12	15.0	1	288.0	0.50	11.50	99.00	99.00
7	3	2	13	15.0	1	301.0	0.50	12.60	99.00	99.00
7	3	2	14	15.0	1	306.0	1.00	13.50	99.00	99.00
7	3	2	15	15.0	1	316.0	1.50	14.10	99.00	99.00
7	3	2	16	15.0	1	338.0	2.10	14.10	99.00	99.00
7	3	2	17	15.0	1	340.0	1.50	14.10	99.00	99.00
7	3	2	18	15.0	1	346.0	0.50	13.50	99.00	99.00
7	3	2	19	15.0	1	0.0	0.00	12.40	99.00	99.00
7	3	2	20	15.0	1	0.0	0.00	11.10	99.00	99.00
7	3	2	21	15.0	1	0.0	0.00	10.10	99.00	99.00
7	3	2	22	15.0	1	184.0	0.50	9.10	99.00	99.00
7	3	2	23	15.0	1	130.0	1.00	8.40	99.00	99.00

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 7  3  2 24    15.0 1   129.0     1.50     7.60    99.00    99.00
 7  3  3  1    15.0 1   139.0     0.50     7.30    99.00    99.00
 7  3  3  2    15.0 1     0.0     0.00     6.90    99.00    99.00
 7  3  3  3    15.0 1   269.0     0.50     6.50    99.00    99.00
 7  3  3  4    15.0 1   283.0     0.50     6.10    99.00    99.00
 7  3  3  5    15.0 1   285.0     1.00     5.90    99.00    99.00
 7  3  3  6    15.0 1   294.0     1.00     5.60    99.00    99.00
 7  3  3  7    15.0 1   299.0     1.00     5.40    99.00    99.00
 7  3  3  8    15.0 1   298.0     1.00     6.90    99.00    99.00
 7  3  3  9    15.0 1   303.0     1.00     9.60    99.00    99.00
 7  3  3 10    15.0 1   334.0     0.50    12.60    99.00    99.00
 7  3  3 11    15.0 1   347.0     0.50    15.10    99.00    99.00
 7  3  3 12    15.0 1    15.0     1.00    17.50    99.00    99.00
 7  3  3 13    15.0 1    26.0     1.50    19.60    99.00    99.00
 7  3  3 14    15.0 1    86.0     2.60    21.00    99.00    99.00
 7  3  3 15    15.0 1   113.0     4.60    21.40    99.00    99.00
 7  3  3 16    15.0 1   123.0     3.10    20.60    99.00    99.00
 7  3  3 17    15.0 1   132.0     3.10    19.10    99.00    99.00
 7  3  3 18    15.0 1   139.0     4.60    16.60    99.00    99.00
 7  3  3 19    15.0 1   153.0     5.70    14.50    99.00    99.00
 7  3  3 20    15.0 1   146.0     5.70    13.00    99.00    99.00
 7  3  3 21    15.0 1   152.0     5.10    12.10    99.00    99.00
 7  3  3 22    15.0 1   158.0     4.60    11.90    99.00    99.00
 7  3  3 23    15.0 1   161.0     4.10    11.90    99.00    99.00
 7  3  3 24    15.0 1   165.0     3.60    11.90    99.00    99.00
 7  3  4  1    15.0 1   150.0     3.10    11.60    99.00    99.00
 7  3  4  2    15.0 1   135.0     2.60    11.50    99.00    99.00
 7  3  4  3    15.0 1   103.0     2.10    11.10    99.00    99.00
 7  3  4  4    15.0 1    76.0     2.10    10.50    99.00    99.00
 7  3  4  5    15.0 1    58.0     2.10     9.80    99.00    99.00
 7  3  4  6    15.0 1    46.0     3.10     9.40    99.00    99.00
 7  3  4  7    15.0 1    47.0     3.60     9.10    99.00    99.00
 7  3  4  8    15.0 1    29.0     2.60     9.10    99.00    99.00
 7  3  4  9    15.0 1     7.0     2.60    10.90    99.00    99.00
 7  3  4 10    15.0 1     4.0     2.60    12.50    99.00    99.00
 7  3  4 11    15.0 1   350.0     2.10    14.00    99.00    99.00
 7  3  4 12    15.0 1   336.0     2.60    15.60    99.00    99.00
 7  3  4 13    15.0 1   343.0     3.10    16.50    99.00    99.00
 7  3  4 14    15.0 1   338.0     3.10    16.90    99.00    99.00
 7  3  4 15    15.0 1     0.0     0.00    16.90    99.00    99.00
 7  3  4 16    15.0 1    19.0     3.10    16.40    99.00    99.00
 7  3  4 17    15.0 1    24.0     3.60    15.60    99.00    99.00
 7  3  4 18    15.0 1    34.0     4.10    15.00    99.00    99.00
 7  3  4 19    15.0 1    63.0     4.10    14.60    99.00    99.00
 7  3  4 20    15.0 1    68.0     3.10    14.30    99.00    99.00
 7  3  4 21    15.0 1    29.0     2.60    14.30    99.00    99.00
 7  3  4 22    15.0 1   340.0     2.60    13.90    99.00    99.00
 7  3  4 23    15.0 1   289.0     4.10    13.10    99.00    99.00
 7  3  4 24    15.0 1   277.0     2.60    12.60    99.00    99.00
 7  3  5  1    15.0 1   270.0     3.60    12.60    99.00    99.00
 7  3  5  2    15.0 1   310.0     3.10    12.90    99.00    99.00
 7  3  5  3    15.0 1   276.0     1.50    12.80    99.00    99.00
 7  3  5  4    15.0 1     7.0     1.00    12.90    99.00    99.00
 7  3  5  5    15.0 1    40.0     1.00    12.90    99.00    99.00
 7  3  5  6    15.0 1     7.0     0.50    12.10    99.00    99.00
 7  3  5  7    15.0 1   295.0     1.00    11.30    99.00    99.00
 7  3  5  8    15.0 1   291.0     2.10    12.10    99.00    99.00
 7  3  5  9    15.0 1   276.0     2.10    13.90    99.00    99.00
 7  3  5 10    15.0 1   274.0     1.00    15.90    99.00    99.00
 7  3  5 11    15.0 1   289.0     1.00    18.10    99.00    99.00
 7  3  5 12    15.0 1   301.0     1.50    19.60    99.00    99.00
 7  3  5 13    15.0 1   315.0     1.50    20.80    99.00    99.00
 7  3  5 14    15.0 1   324.0     1.50    21.60    99.00    99.00
 7  3  5 15    15.0 1   330.0     2.10    21.90    99.00    99.00
 7  3  5 16    15.0 1   341.0     2.10    21.80    99.00    99.00
 7  3  5 17    15.0 1   349.0     2.10    21.10    99.00    99.00
 7  3  5 18    15.0 1    13.0     2.10    20.10    99.00    99.00
 7  3  5 19    15.0 1    29.0     1.00    18.90    99.00    99.00
 7  3  5 20    15.0 1     0.0     0.00    17.40    99.00    99.00
 7  3  5 21    15.0 1     0.0     0.00    15.90    99.00    99.00
 7  3  5 22    15.0 1   288.0     0.50    14.80    99.00    99.00
 7  3  5 23    15.0 1   314.0     0.50    14.00    99.00    99.00
 7  3  5 24    15.0 1   317.0     1.00    13.30    99.00    99.00
 7  3  6  1    15.0 1   316.0     1.00    12.80    99.00    99.00
 7  3  6  2    15.0 1   310.0     1.00    12.40    99.00    99.00
 7  3  6  3    15.0 1   300.0     1.50    11.90    99.00    99.00
 7  3  6  4    15.0 1   307.0     2.10    11.40    99.00    99.00
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```
 7  3  6  5    15.0 1   310.0     2.10    10.80    99.00    99.00
 7  3  6  6    15.0 1   301.0     1.50    10.30    99.00    99.00
 7  3  6  7    15.0 1   290.0     1.50    10.00    99.00    99.00
 7  3  6  8    15.0 1   335.0     2.10    11.10    99.00    99.00
 7  3  6  9    15.0 1   328.0     1.50    12.90    99.00    99.00
 7  3  6 10    15.0 1   311.0     0.50    15.30    99.00    99.00
 7  3  6 11    15.0 1   298.0     1.00    17.10    99.00    99.00
 7  3  6 12    15.0 1   300.0     1.00    18.60    99.00    99.00
 7  3  6 13    15.0 1   312.0     1.50    19.90    99.00    99.00
 7  3  6 14    15.0 1   317.0     1.50    20.60    99.00    99.00
 7  3  6 15    15.0 1   331.0     2.10    21.10    99.00    99.00
 7  3  6 16    15.0 1   339.0     2.60    21.40    99.00    99.00
 7  3  6 17    15.0 1   331.0     2.60    21.00    99.00    99.00
 7  3  6 18    15.0 1   329.0     2.10    20.10    99.00    99.00
 7  3  6 19    15.0 1   326.0     1.00    19.10    99.00    99.00
 7  3  6 20    15.0 1     0.0     0.00    17.80    99.00    99.00
 7  3  6 21    15.0 1     0.0     0.00    16.50    99.00    99.00
 7  3  6 22    15.0 1   320.0     0.50    15.60    99.00    99.00
 7  3  6 23    15.0 1   322.0     1.00    15.30    99.00    99.00
 7  3  6 24    15.0 1   330.0     2.10    15.10    99.00    99.00
 7  3  7  1    15.0 1   344.0     3.10    14.60    99.00    99.00
 7  3  7  2    15.0 1   332.0     3.10    14.10    99.00    99.00
 7  3  7  3    15.0 1   321.0     3.10    13.50    99.00    99.00
 7  3  7  4    15.0 1   316.0     3.10    13.10    99.00    99.00
 7  3  7  5    15.0 1   317.0     2.60    12.90    99.00    99.00
 7  3  7  6    15.0 1   321.0     2.10    12.60    99.00    99.00
 7  3  7  7    15.0 1   316.0     1.00    12.30    99.00    99.00
 7  3  7  8    15.0 1   311.0     0.50    12.50    99.00    99.00
 7  3  7  9    15.0 1   336.0     1.00    14.00    99.00    99.00
 7  3  7 10    15.0 1     0.0     0.00    15.80    99.00    99.00
 7  3  7 11    15.0 1     0.0     0.00    17.60    99.00    99.00
 7  3  7 12    15.0 1   303.0     0.50    19.00    99.00    99.00
 7  3  7 13    15.0 1   309.0     0.50    20.10    99.00    99.00
 7  3  7 14    15.0 1   322.0     1.00    21.10    99.00    99.00
 7  3  7 15    15.0 1   338.0     1.50    21.50    99.00    99.00
 7  3  7 16    15.0 1   360.0     2.60    21.60    99.00    99.00
 7  3  7 17    15.0 1    12.0     2.60    21.10    99.00    99.00
 7  3  7 18    15.0 1    22.0     3.10    20.30    99.00    99.00
 7  3  7 19    15.0 1    21.0     2.60    19.30    99.00    99.00
 7  3  7 20    15.0 1   359.0     0.50    18.10    99.00    99.00
 7  3  7 21    15.0 1   288.0     1.00    17.00    99.00    99.00
 7  3  7 22    15.0 1   300.0     3.10    16.10    99.00    99.00
 7  3  7 23    15.0 1   315.0     4.10    14.80    99.00    99.00
 7  3  7 24    15.0 1   320.0     4.60    13.40    99.00    99.00
 7  3  8  1    15.0 1   342.0     4.10    12.30    99.00    99.00
 7  3  8  2    15.0 1   338.0     3.60    11.60    99.00    99.00
 7  3  8  3    15.0 1   328.0     3.10    11.30    99.00    99.00
 7  3  8  4    15.0 1   316.0     2.60    11.00    99.00    99.00
 7  3  8  5    15.0 1   302.0     2.10    10.60    99.00    99.00
 7  3  8  6    15.0 1   284.0     2.10    10.10    99.00    99.00
 7  3  8  7    15.0 1   288.0     1.50    10.30    99.00    99.00
 7  3  8  8    15.0 1   330.0     2.60    11.00    99.00    99.00
 7  3  8  9    15.0 1   360.0     1.50    11.80    99.00    99.00
 7  3  8 10    15.0 1    84.0     1.00    12.50    99.00    99.00
 7  3  8 11    15.0 1   111.0     2.10    12.90    99.00    99.00
 7  3  8 12    15.0 1   130.0     1.50    13.30    99.00    99.00
 7  3  8 13    15.0 1     0.0     0.00    15.00    99.00    99.00
 7  3  8 14    15.0 1   295.0     0.50    16.60    99.00    99.00
 7  3  8 15    15.0 1   301.0     0.50    17.40    99.00    99.00
 7  3  8 16    15.0 1   322.0     1.00    17.90    99.00    99.00
 7  3  8 17    15.0 1   319.0     0.50    18.00    99.00    99.00
 7  3  8 18    15.0 1     0.0     0.00    17.50    99.00    99.00
 7  3  8 19    15.0 1     0.0     0.00    16.40    99.00    99.00
 7  3  8 20    15.0 1   310.0     1.00    15.40    99.00    99.00
 7  3  8 21    15.0 1   331.0     2.60    14.30    99.00    99.00
 7  3  8 22    15.0 1   336.0     3.10    13.10    99.00    99.00
 7  3  8 23    15.0 1   357.0     2.60    12.50    99.00    99.00
 7  3  8 24    15.0 1     0.0     0.00    11.90    99.00    99.00
 7  3  9  1    15.0 1   349.0     1.00    11.40    99.00    99.00
 7  3  9  2    15.0 1   353.0     0.50    10.90    99.00    99.00
 7  3  9  3    15.0 1   358.0     0.50    10.40    99.00    99.00
 7  3  9  4    15.0 1   352.0     0.50    10.00    99.00    99.00
 7  3  9  5    15.0 1   350.0     1.00     9.30    99.00    99.00
 7  3  9  6    15.0 1    12.0     0.50     8.30    99.00    99.00
 7  3  9  7    15.0 1    85.0     0.50     7.10    99.00    99.00
 7  3  9  8    15.0 1     0.0     0.00     7.40    99.00    99.00
 7  3  9  9    15.0 1     0.0     0.00     9.40    99.00    99.00
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 7  3  9 10    15.0 1     0.0     0.00    12.50    99.00    99.00
 7  3  9 11    15.0 1     0.0     0.00    14.40    99.00    99.00
 7  3  9 12    15.0 1   306.0     0.50    16.00    99.00    99.00
 7  3  9 13    15.0 1   322.0     1.00    17.40    99.00    99.00
 7  3  9 14    15.0 1   324.0     1.50    18.30    99.00    99.00
 7  3  9 15    15.0 1   330.0     2.10    18.80    99.00    99.00
 7  3  9 16    15.0 1   344.0     2.60    19.00    99.00    99.00
 7  3  9 17    15.0 1   345.0     2.10    18.60    99.00    99.00
 7  3  9 18    15.0 1     5.0     1.50    18.10    99.00    99.00
 7  3  9 19    15.0 1    16.0     0.50    17.00    99.00    99.00
 7  3  9 20    15.0 1     0.0     0.00    15.60    99.00    99.00
 7  3  9 21    15.0 1   188.0     0.50    14.30    99.00    99.00
 7  3  9 22    15.0 1   157.0     0.50    13.10    99.00    99.00
 7  3  9 23    15.0 1     0.0     0.00    12.40    99.00    99.00
 7  3  9 24    15.0 1   318.0     0.50    11.80    99.00    99.00
 7  3 10  1    15.0 1   329.0     1.00    11.40    99.00    99.00
 7  3 10  2    15.0 1   330.0     1.00    11.10    99.00    99.00
 7  3 10  3    15.0 1   329.0     1.00    10.80    99.00    99.00
 7  3 10  4    15.0 1   310.0     1.00    10.40    99.00    99.00
 7  3 10  5    15.0 1   297.0     1.00    10.00    99.00    99.00
 7  3 10  6    15.0 1   301.0     1.00     9.60    99.00    99.00
 7  3 10  7    15.0 1   289.0     0.50     9.10    99.00    99.00
 7  3 10  8    15.0 1   357.0     0.50    10.80    99.00    99.00
 7  3 10  9    15.0 1     0.0     0.00    12.60    99.00    99.00
 7  3 10 10    15.0 1     0.0     0.00    14.00    99.00    99.00
 7  3 10 11    15.0 1     0.0     0.00    15.60    99.00    99.00
 7  3 10 12    15.0 1   305.0     0.50    17.10    99.00    99.00
 7  3 10 13    15.0 1   319.0     0.50    18.40    99.00    99.00
 7  3 10 14    15.0 1   326.0     1.00    19.30    99.00    99.00
 7  3 10 15    15.0 1   340.0     2.10    19.80    99.00    99.00
 7  3 10 16    15.0 1   348.0     3.10    19.60    99.00    99.00
 7  3 10 17    15.0 1   358.0     2.60    19.30    99.00    99.00
 7  3 10 18    15.0 1    34.0     2.60    18.40    99.00    99.00
 7  3 10 19    15.0 1    76.0     1.50    17.40    99.00    99.00
 7  3 10 20    15.0 1   129.0     1.00    16.10    99.00    99.00
 7  3 10 21    15.0 1   156.0     1.00    15.30    99.00    99.00
 7  3 10 22    15.0 1   167.0     1.00    14.50    99.00    99.00
 7  3 10 23    15.0 1   158.0     1.00    13.90    99.00    99.00
 7  3 10 24    15.0 1   199.0     0.50    13.60    99.00    99.00
 7  3 11  1    15.0 1   242.0     1.00    13.60    99.00    99.00
 7  3 11  2    15.0 1   261.0     1.50    13.60    99.00    99.00
 7  3 11  3    15.0 1   260.0     1.50    13.30    99.00    99.00
 7  3 11  4    15.0 1   264.0     2.10    12.80    99.00    99.00
 7  3 11  5    15.0 1   275.0     2.60    12.30    99.00    99.00
 7  3 11  6    15.0 1   272.0     3.10    11.60    99.00    99.00
 7  3 11  7    15.0 1   267.0     2.60    11.30    99.00    99.00
 7  3 11  8    15.0 1   302.0     2.60    12.90    99.00    99.00
 7  3 11  9    15.0 1   288.0     2.10    14.80    99.00    99.00
 7  3 11 10    15.0 1   284.0     2.10    16.80    99.00    99.00
 7  3 11 11    15.0 1   278.0     2.10    18.90    99.00    99.00
 7  3 11 12    15.0 1   303.0     2.10    20.40    99.00    99.00
 7  3 11 13    15.0 1   317.0     2.10    21.80    99.00    99.00
 7  3 11 14    15.0 1   327.0     2.10    22.90    99.00    99.00
 7  3 11 15    15.0 1   345.0     2.10    23.50    99.00    99.00
 7  3 11 16    15.0 1   354.0     2.10    24.00    99.00    99.00
 7  3 11 17    15.0 1     9.0     2.10    23.60    99.00    99.00
 7  3 11 18    15.0 1    26.0     2.10    22.60    99.00    99.00
 7  3 11 19    15.0 1    55.0     1.00    21.30    99.00    99.00
 7  3 11 20    15.0 1     0.0     0.00    19.90    99.00    99.00
 7  3 11 21    15.0 1     0.0     0.00    18.50    99.00    99.00
 7  3 11 22    15.0 1   325.0     0.50    17.30    99.00    99.00
 7  3 11 23    15.0 1   311.0     1.50    16.50    99.00    99.00
 7  3 11 24    15.0 1   303.0     1.50    16.00    99.00    99.00
 7  3 12  1    15.0 1   250.0     0.50    15.50    99.00    99.00
 7  3 12  2    15.0 1   177.0     0.50    15.00    99.00    99.00
 7  3 12  3    15.0 1    20.0     0.50    14.50    99.00    99.00
 7  3 12  4    15.0 1   350.0     1.00    14.00    99.00    99.00
 7  3 12  5    15.0 1   339.0     0.50    13.60    99.00    99.00
 7  3 12  6    15.0 1   291.0     0.50    13.10    99.00    99.00
 7  3 12  7    15.0 1   269.0     1.00    13.00    99.00    99.00
 7  3 12  8    15.0 1   297.0     1.50    14.60    99.00    99.00
 7  3 12  9    15.0 1   305.0     1.50    16.60    99.00    99.00
 7  3 12 10    15.0 1   299.0     1.00    18.60    99.00    99.00
 7  3 12 11    15.0 1     0.0     0.00    21.00    99.00    99.00
 7  3 12 12    15.0 1     0.0     0.00    22.80    99.00    99.00
 7  3 12 13    15.0 1     0.0     0.00    24.10    99.00    99.00
 7  3 12 14    15.0 1     0.0     0.00    25.00    99.00    99.00
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 7  3 12 15     15.0 1     0.0      0.00     25.60     99.00     99.00
 7  3 12 16     15.0 1   353.0      0.50     25.60     99.00     99.00
 7  3 12 17     15.0 1     0.0      0.00     25.30     99.00     99.00
 7  3 12 18     15.0 1     0.0      0.00     23.90     99.00     99.00
 7  3 12 19     15.0 1     0.0      0.00     22.10     99.00     99.00
 7  3 12 20     15.0 1   191.0      0.50     20.60     99.00     99.00
 7  3 12 21     15.0 1   197.0      0.50     19.40     99.00     99.00
 7  3 12 22     15.0 1     0.0      0.00     18.30     99.00     99.00
 7  3 12 23     15.0 1    67.0      0.50     17.10     99.00     99.00
 7  3 12 24     15.0 1    90.0      0.50     16.10     99.00     99.00
 7  3 13  1     15.0 1   106.0      0.50     15.40     99.00     99.00
 7  3 13  2     15.0 1   109.0      0.50     14.80     99.00     99.00
 7  3 13  3     15.0 1   117.0      0.50     14.30     99.00     99.00
 7  3 13  4     15.0 1   108.0      0.50     13.80     99.00     99.00
 7  3 13  5     15.0 1     0.0      0.00     13.10     99.00     99.00
 7  3 13  6     15.0 1     0.0      0.00     12.80     99.00     99.00
 7  3 13  7     15.0 1     0.0      0.00     12.60     99.00     99.00
 7  3 13  8     15.0 1     0.0      0.00     14.50     99.00     99.00
 7  3 13  9     15.0 1     0.0      0.00     18.00     99.00     99.00
 7  3 13 10     15.0 1     0.0      0.00     20.60     99.00     99.00
 7  3 13 11     15.0 1     0.0      0.00     22.60     99.00     99.00
 7  3 13 12     15.0 1     0.0      0.00     24.10     99.00     99.00
 7  3 13 13     15.0 1     0.0      0.00     25.50     99.00     99.00
 7  3 13 14     15.0 1   337.0      0.50     26.40     99.00     99.00
 7  3 13 15     15.0 1     3.0      1.00     27.00     99.00     99.00
 7  3 13 16     15.0 1   358.0      1.50     27.00     99.00     99.00
 7  3 13 17     15.0 1   358.0      1.50     26.60     99.00     99.00
 7  3 13 18     15.0 1     0.0      0.00     25.50     99.00     99.00
 7  3 13 19     15.0 1   312.0      0.50     23.80     99.00     99.00
 7  3 13 20     15.0 1   272.0      3.10     22.50     99.00     99.00
 7  3 13 21     15.0 1   285.0      5.10     19.90     99.00     99.00
 7  3 13 22     15.0 1   275.0      5.10     17.90     99.00     99.00
 7  3 13 23     15.0 1   273.0      5.70     17.30     99.00     99.00
 7  3 13 24     15.0 1   279.0      5.10     16.80     99.00     99.00
 7  3 14  1     15.0 1   290.0      2.60     16.50     99.00     99.00
 7  3 14  2     15.0 1   332.0      1.00     16.30     99.00     99.00
 7  3 14  3     15.0 1    14.0      0.50     16.10     99.00     99.00
 7  3 14  4     15.0 1     0.0      0.00     16.00     99.00     99.00
 7  3 14  5     15.0 1     0.0      0.00     15.60     99.00     99.00
 7  3 14  6     15.0 1   355.0      0.50     15.10     99.00     99.00
 7  3 14  7     15.0 1   326.0      0.50     14.90     99.00     99.00
 7  3 14  8     15.0 1   351.0      1.50     16.00     99.00     99.00
 7  3 14  9     15.0 1   324.0      0.50     17.60     99.00     99.00
 7  3 14 10     15.0 1     0.0      0.00     19.00     99.00     99.00
 7  3 14 11     15.0 1   291.0      0.50     20.40     99.00     99.00
 7  3 14 12     15.0 1   298.0      0.50     21.60     99.00     99.00
 7  3 14 13     15.0 1   313.0      1.00     23.00     99.00     99.00
 7  3 14 14     15.0 1   322.0      1.50     23.60     99.00     99.00
 7  3 14 15     15.0 1   342.0      2.60     24.10     99.00     99.00
 7  3 14 16     15.0 1   350.0      3.60     24.10     99.00     99.00
 7  3 14 17     15.0 1   346.0      3.10     23.60     99.00     99.00
 7  3 14 18     15.0 1     1.0      3.60     22.60     99.00     99.00
 7  3 14 19     15.0 1   351.0      3.60     21.60     99.00     99.00
 7  3 14 20     15.0 1   340.0      4.10     20.10     99.00     99.00
 7  3 14 21     15.0 1   328.0      4.10     18.60     99.00     99.00
 7  3 14 22     15.0 1   330.0      3.60     17.50     99.00     99.00
 7  3 14 23     15.0 1   327.0      3.60     16.50     99.00     99.00
 7  3 14 24     15.0 1   340.0      3.10     15.60     99.00     99.00
 7  3 15  1     15.0 1   342.0      2.60     15.10     99.00     99.00
 7  3 15  2     15.0 1   345.0      1.50     14.40     99.00     99.00
 7  3 15  3     15.0 1   338.0      1.00     13.80     99.00     99.00
 7  3 15  4     15.0 1   318.0      1.00     13.30     99.00     99.00
 7  3 15  5     15.0 1   314.0      1.00     12.90     99.00     99.00
 7  3 15  6     15.0 1   276.0      0.50     12.50     99.00     99.00
 7  3 15  7     15.0 1     0.0      0.00     12.30     99.00     99.00
 7  3 15  8     15.0 1     0.0      0.00     13.60     99.00     99.00
 7  3 15  9     15.0 1     0.0      0.00     15.50     99.00     99.00
 7  3 15 10     15.0 1   294.0      0.50     16.80     99.00     99.00
 7  3 15 11     15.0 1   312.0      1.00     17.60     99.00     99.00
 7  3 15 12     15.0 1   306.0      1.50     18.60     99.00     99.00
 7  3 15 13     15.0 1   316.0      1.50     19.60     99.00     99.00
 7  3 15 14     15.0 1   342.0      1.50     20.60     99.00     99.00
 7  3 15 15     15.0 1   356.0      1.50     21.40     99.00     99.00
 7  3 15 16     15.0 1    10.0      1.50     21.80     99.00     99.00
 7  3 15 17     15.0 1    25.0      1.00     21.80     99.00     99.00
 7  3 15 18     15.0 1     0.0      0.00     21.10     99.00     99.00
 7  3 15 19     15.0 1   204.0      0.50     19.90     99.00     99.00
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 7   3 15 20     15.0 1   198.0      0.50     18.60     99.00     99.00
 7   3 15 21     15.0 1   216.0      0.50     17.60     99.00     99.00
 7   3 15 22     15.0 1     0.0      0.00     16.80     99.00     99.00
 7   3 15 23     15.0 1     0.0      0.00     16.00     99.00     99.00
 7   3 15 24     15.0 1     0.0      0.00     15.40     99.00     99.00
 7   3 16  1     15.0 1     0.0      0.00     14.90     99.00     99.00
 7   3 16  2     15.0 1     0.0      0.00     14.50     99.00     99.00
 7   3 16  3     15.0 1   311.0      0.50     14.10     99.00     99.00
 7   3 16  4     15.0 1   301.0      1.00     13.80     99.00     99.00
 7   3 16  5     15.0 1   298.0      1.50     13.50     99.00     99.00
 7   3 16  6     15.0 1   301.0      1.50     13.10     99.00     99.00
 7   3 16  7     15.0 1   297.0      1.00     12.90     99.00     99.00
 7   3 16  8     15.0 1   320.0      1.50     15.00     99.00     99.00
 7   3 16  9     15.0 1   311.0      1.50     16.90     99.00     99.00
 7   3 16 10     15.0 1   312.0      1.00     19.40     99.00     99.00
 7   3 16 11     15.0 1   313.0      0.50     22.00     99.00     99.00
 7   3 16 12     15.0 1   320.0      0.50     23.80     99.00     99.00
 7   3 16 13     15.0 1   346.0      1.00     25.10     99.00     99.00
 7   3 16 14     15.0 1   347.0      1.50     26.10     99.00     99.00
 7   3 16 15     15.0 1   354.0      2.10     26.80     99.00     99.00
 7   3 16 16     15.0 1   356.0      2.60     27.00     99.00     99.00
 7   3 16 17     15.0 1     8.0      3.10     26.10     99.00     99.00
 7   3 16 18     15.0 1    21.0      3.10     24.90     99.00     99.00
 7   3 16 19     15.0 1    16.0      1.50     23.40     99.00     99.00
 7   3 16 20     15.0 1   256.0      1.00     21.80     99.00     99.00
 7   3 16 21     15.0 1   278.0      4.10     20.50     99.00     99.00
 7   3 16 22     15.0 1   291.0      4.60     18.10     99.00     99.00
 7   3 16 23     15.0 1   286.0      4.10     16.60     99.00     99.00
 7   3 16 24     15.0 1   316.0      3.10     15.60     99.00     99.00
 7   3 17  1     15.0 1     7.0      2.60     14.90     99.00     99.00
 7   3 17  2     15.0 1    30.0      2.60     14.10     99.00     99.00
 7   3 17  3     15.0 1    27.0      0.50     13.60     99.00     99.00
 7   3 17  4     15.0 1   214.0      0.50     13.50     99.00     99.00
 7   3 17  5     15.0 1   212.0      1.00     13.10     99.00     99.00
 7   3 17  6     15.0 1   197.0      0.50     12.80     99.00     99.00
 7   3 17  7     15.0 1     0.0      0.00     12.40     99.00     99.00
 7   3 17  8     15.0 1   299.0      1.00     14.60     99.00     99.00
 7   3 17  9     15.0 1   309.0      0.50     16.60     99.00     99.00
 7   3 17 10     15.0 1   304.0      0.50     18.60     99.00     99.00
 7   3 17 11     15.0 1   314.0      0.50     20.10     99.00     99.00
 7   3 17 12     15.0 1   306.0      1.00     21.60     99.00     99.00
 7   3 17 13     15.0 1   308.0      1.00     23.00     99.00     99.00
 7   3 17 14     15.0 1   335.0      1.50     23.90     99.00     99.00
 7   3 17 15     15.0 1   341.0      1.50     24.50     99.00     99.00
 7   3 17 16     15.0 1   352.0      2.60     24.60     99.00     99.00
 7   3 17 17     15.0 1     0.0      0.00     24.40     99.00     99.00
 7   3 17 18     15.0 1     8.0      2.10     23.60     99.00     99.00
 7   3 17 19     15.0 1   348.0      0.50     22.10     99.00     99.00
 7   3 17 20     15.0 1   230.0      1.00     20.80     99.00     99.00
 7   3 17 21     15.0 1   247.0      3.10     19.50     99.00     99.00
 7   3 17 22     15.0 1   261.0      3.60     18.00     99.00     99.00
 7   3 17 23     15.0 1   288.0      4.60     16.80     99.00     99.00
 7   3 17 24     15.0 1   308.0      4.10     15.90     99.00     99.00
 7   3 18  1     15.0 1   327.0      3.10     15.30     99.00     99.00
 7   3 18  2     15.0 1   332.0      2.60     14.90     99.00     99.00
 7   3 18  3     15.0 1   325.0      1.50     14.40     99.00     99.00
 7   3 18  4     15.0 1   321.0      0.50     13.90     99.00     99.00
 7   3 18  5     15.0 1   288.0      0.50     13.50     99.00     99.00
 7   3 18  6     15.0 1   324.0      0.50     13.10     99.00     99.00
 7   3 18  7     15.0 1     3.0      0.50     12.80     99.00     99.00
 7   3 18  8     15.0 1    24.0      1.00     13.10     99.00     99.00
 7   3 18  9     15.0 1    23.0      1.00     13.60     99.00     99.00
 7   3 18 10     15.0 1     0.0      0.00     14.30     99.00     99.00
 7   3 18 11     15.0 1     0.0      0.00     15.10     99.00     99.00
 7   3 18 12     15.0 1     0.0      0.00     16.60     99.00     99.00
 7   3 18 13     15.0 1     0.0      0.00     18.40     99.00     99.00
 7   3 18 14     15.0 1     0.0      0.00     19.60     99.00     99.00
 7   3 18 15     15.0 1    25.0      0.50     20.60     99.00     99.00
 7   3 18 16     15.0 1    34.0      1.50     21.00     99.00     99.00
 7   3 18 17     15.0 1    40.0      2.10     20.90     99.00     99.00
 7   3 18 18     15.0 1    47.0      2.60     20.30     99.00     99.00
 7   3 18 19     15.0 1    73.0      2.10     19.10     99.00     99.00
 7   3 18 20     15.0 1   137.0      1.00     18.00     99.00     99.00
 7   3 18 21     15.0 1   169.0      1.00     16.90     99.00     99.00
 7   3 18 22     15.0 1   162.0      1.00     16.10     99.00     99.00
 7   3 18 23     15.0 1   114.0      0.50     15.10     99.00     99.00
 7   3 18 24     15.0 1     8.0      1.00     14.40     99.00     99.00
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 7  3 19  1    15.0 1     5.0     3.10    13.90    99.00    99.00
 7  3 19  2    15.0 1    12.0     3.10    13.40    99.00    99.00
 7  3 19  3    15.0 1    17.0     2.10    13.40    99.00    99.00
 7  3 19  4    15.0 1    23.0     1.50    13.40    99.00    99.00
 7  3 19  5    15.0 1    10.0     1.00    13.30    99.00    99.00
 7  3 19  6    15.0 1     8.0     1.00    13.10    99.00    99.00
 7  3 19  7    15.0 1     2.0     1.00    13.10    99.00    99.00
 7  3 19  8    15.0 1    15.0     1.50    13.00    99.00    99.00
 7  3 19  9    15.0 1   327.0     0.50    13.40    99.00    99.00
 7  3 19 10    15.0 1     0.0     0.00    14.40    99.00    99.00
 7  3 19 11    15.0 1     0.0     0.00    15.60    99.00    99.00
 7  3 19 12    15.0 1     0.0     0.00    17.60    99.00    99.00
 7  3 19 13    15.0 1     0.0     0.00    18.80    99.00    99.00
 7  3 19 14    15.0 1   320.0     0.50    19.30    99.00    99.00
 7  3 19 15    15.0 1     0.0     0.00    19.60    99.00    99.00
 7  3 19 16    15.0 1    43.0     1.50    19.80    99.00    99.00
 7  3 19 17    15.0 1    72.0     1.50    19.60    99.00    99.00
 7  3 19 18    15.0 1    91.0     1.50    19.10    99.00    99.00
 7  3 19 19    15.0 1   174.0     0.50    18.60    99.00    99.00
 7  3 19 20    15.0 1   243.0     1.50    18.10    99.00    99.00
 7  3 19 21    15.0 1   258.0     4.10    17.10    99.00    99.00
 7  3 19 22    15.0 1   271.0     4.60    15.30    99.00    99.00
 7  3 19 23    15.0 1   271.0     4.10    14.60    99.00    99.00
 7  3 19 24    15.0 1   268.0     3.60    14.30    99.00    99.00
 7  3 20  1    15.0 1   274.0     3.10    14.10    99.00    99.00
 7  3 20  2    15.0 1   278.0     2.10    14.10    99.00    99.00
 7  3 20  3    15.0 1   312.0     0.50    14.30    99.00    99.00
 7  3 20  4    15.0 1   291.0     1.50    14.40    99.00    99.00
 7  3 20  5    15.0 1   353.0     0.50    14.40    99.00    99.00
 7  3 20  6    15.0 1   117.0     0.50    14.30    99.00    99.00
 7  3 20  7    15.0 1   125.0     1.00    14.10    99.00    99.00
 7  3 20  8    15.0 1   162.0     1.50    14.40    99.00    99.00
 7  3 20  9    15.0 1   206.0     1.00    15.30    99.00    99.00
 7  3 20 10    15.0 1   194.0     1.00    16.10    99.00    99.00
 7  3 20 11    15.0 1   178.0     0.50    17.30    99.00    99.00
 7  3 20 12    15.0 1     0.0     0.00    18.60    99.00    99.00
 7  3 20 13    15.0 1   247.0     1.50    19.10    99.00    99.00
 7  3 20 14    15.0 1   264.0     3.10    19.10    99.00    99.00
 7  3 20 15    15.0 1   259.0     4.60    19.10    99.00    99.00
 7  3 20 16    15.0 1   256.0     5.70    19.10    99.00    99.00
 7  3 20 17    15.0 1   258.0     5.10    18.30    99.00    99.00
 7  3 20 18    15.0 1   269.0     5.70    16.30    99.00    99.00
 7  3 20 19    15.0 1   266.0     5.70    14.80    99.00    99.00
 7  3 20 20    15.0 1   269.0     5.70    14.00    99.00    99.00
 7  3 20 21    15.0 1   281.0     5.70    13.50    99.00    99.00
 7  3 20 22    15.0 1   278.0     6.20    13.10    99.00    99.00
 7  3 20 23    15.0 1   276.0     6.20    12.50    99.00    99.00
 7  3 20 24    15.0 1   283.0     5.10    12.10    99.00    99.00
 7  3 21  1    15.0 1   283.0     3.60    12.00    99.00    99.00
 7  3 21  2    15.0 1   288.0     4.10    11.40    99.00    99.00
 7  3 21  3    15.0 1   287.0     3.60    11.00    99.00    99.00
 7  3 21  4    15.0 1   279.0     3.60    10.80    99.00    99.00
 7  3 21  5    15.0 1   277.0     3.60    10.60    99.00    99.00
 7  3 21  6    15.0 1   296.0     3.60    10.30    99.00    99.00
 7  3 21  7    15.0 1   309.0     3.60    10.00    99.00    99.00
 7  3 21  8    15.0 1   326.0     4.60    10.10    99.00    99.00
 7  3 21  9    15.0 1   340.0     3.60    11.10    99.00    99.00
 7  3 21 10    15.0 1   344.0     2.10    12.10    99.00    99.00
 7  3 21 11    15.0 1   326.0     1.00    13.10    99.00    99.00
 7  3 21 12    15.0 1   316.0     0.50    14.00    99.00    99.00
 7  3 21 13    15.0 1   324.0     1.00    15.10    99.00    99.00
 7  3 21 14    15.0 1   339.0     1.50    15.80    99.00    99.00
 7  3 21 15    15.0 1   346.0     2.10    16.10    99.00    99.00
 7  3 21 16    15.0 1   336.0     2.60    16.50    99.00    99.00
 7  3 21 17    15.0 1   338.0     2.10    16.50    99.00    99.00
 7  3 21 18    15.0 1   332.0     1.00    16.10    99.00    99.00
 7  3 21 19    15.0 1   326.0     0.50    15.40    99.00    99.00
 7  3 21 20    15.0 1     0.0     0.00    14.30    99.00    99.00
 7  3 21 21    15.0 1   135.0     0.50    13.10    99.00    99.00
 7  3 21 22    15.0 1   142.0     2.10    12.00    99.00    99.00
 7  3 21 23    15.0 1   151.0     2.60    11.30    99.00    99.00
 7  3 21 24    15.0 1   162.0     2.60    10.80    99.00    99.00
 7  3 22  1    15.0 1   162.0     1.50    10.40    99.00    99.00
 7  3 22  2    15.0 1   215.0     0.50    10.10    99.00    99.00
 7  3 22  3    15.0 1   273.0     1.50     9.80    99.00    99.00
 7  3 22  4    15.0 1   285.0     2.60     9.40    99.00    99.00
 7  3 22  5    15.0 1   279.0     2.60     8.90    99.00    99.00
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 7  3 22  6    15.0 1   283.0     2.60     8.60    99.00    99.00
 7  3 22  7    15.0 1   256.0     2.60     8.50    99.00    99.00
 7  3 22  8    15.0 1   296.0     2.10    10.60    99.00    99.00
 7  3 22  9    15.0 1   275.0     1.50    12.60    99.00    99.00
 7  3 22 10    15.0 1   256.0     1.50    15.10    99.00    99.00
 7  3 22 11    15.0 1   261.0     1.50    17.00    99.00    99.00
 7  3 22 12    15.0 1   286.0     1.00    18.60    99.00    99.00
 7  3 22 13    15.0 1   313.0     1.00    20.00    99.00    99.00
 7  3 22 14    15.0 1   316.0     1.00    21.00    99.00    99.00
 7  3 22 15    15.0 1   332.0     1.50    21.50    99.00    99.00
 7  3 22 16    15.0 1   340.0     2.10    21.60    99.00    99.00
 7  3 22 17    15.0 1     0.0     0.00    21.50    99.00    99.00
 7  3 22 18    15.0 1    24.0     2.60    20.60    99.00    99.00
 7  3 22 19    15.0 1    38.0     2.60    19.40    99.00    99.00
 7  3 22 20    15.0 1    37.0     1.00    18.10    99.00    99.00
 7  3 22 21    15.0 1   183.0     0.50    16.60    99.00    99.00
 7  3 22 22    15.0 1   190.0     1.50    15.10    99.00    99.00
 7  3 22 23    15.0 1   189.0     1.00    14.50    99.00    99.00
 7  3 22 24    15.0 1   103.0     1.00    13.60    99.00    99.00
 7  3 23  1    15.0 1    91.0     1.00    12.90    99.00    99.00
 7  3 23  2    15.0 1   105.0     1.00    12.40    99.00    99.00
 7  3 23  3    15.0 1     0.0     0.00    12.10    99.00    99.00
 7  3 23  4    15.0 1     0.0     0.00    12.00    99.00    99.00
 7  3 23  5    15.0 1   276.0     0.50    12.00    99.00    99.00
 7  3 23  6    15.0 1   276.0     1.00    12.10    99.00    99.00
 7  3 23  7    15.0 1   280.0     1.50    12.00    99.00    99.00
 7  3 23  8    15.0 1   322.0     2.60    13.90    99.00    99.00
 7  3 23  9    15.0 1   314.0     1.50    15.60    99.00    99.00
 7  3 23 10    15.0 1   293.0     1.00    17.80    99.00    99.00
 7  3 23 11    15.0 1   285.0     0.50    19.30    99.00    99.00
 7  3 23 12    15.0 1   280.0     0.50    20.60    99.00    99.00
 7  3 23 13    15.0 1   278.0     0.50    21.80    99.00    99.00
 7  3 23 14    15.0 1   288.0     0.50    22.80    99.00    99.00
 7  3 23 15    15.0 1   322.0     1.00    23.50    99.00    99.00
 7  3 23 16    15.0 1   337.0     1.50    23.60    99.00    99.00
 7  3 23 17    15.0 1   347.0     2.10    23.30    99.00    99.00
 7  3 23 18    15.0 1   355.0     2.10    22.50    99.00    99.00
 7  3 23 19    15.0 1   356.0     2.10    21.10    99.00    99.00
 7  3 23 20    15.0 1     0.0     0.00    19.80    99.00    99.00
 7  3 23 21    15.0 1   283.0     0.50    18.30    99.00    99.00
 7  3 23 22    15.0 1   258.0     1.00    17.10    99.00    99.00
 7  3 23 23    15.0 1   263.0     1.00    16.10    99.00    99.00
 7  3 23 24    15.0 1   225.0     0.50    15.40    99.00    99.00
 7  3 24  1    15.0 1   267.0     0.50    14.80    99.00    99.00
 7  3 24  2    15.0 1   297.0     1.50    14.30    99.00    99.00
 7  3 24  3    15.0 1   296.0     2.10    13.80    99.00    99.00
 7  3 24  4    15.0 1   305.0     2.10    13.10    99.00    99.00
 7  3 24  5    15.0 1   292.0     1.00    12.60    99.00    99.00
 7  3 24  6    15.0 1   278.0     1.00    12.30    99.00    99.00
 7  3 24  7    15.0 1   257.0     1.50    12.10    99.00    99.00
 7  3 24  8    15.0 1   309.0     2.10    14.00    99.00    99.00
 7  3 24  9    15.0 1   304.0     1.00    15.80    99.00    99.00
 7  3 24 10    15.0 1   276.0     0.50    17.80    99.00    99.00
 7  3 24 11    15.0 1   285.0     0.50    19.50    99.00    99.00
 7  3 24 12    15.0 1   303.0     1.00    20.90    99.00    99.00
 7  3 24 13    15.0 1   313.0     1.00    22.10    99.00    99.00
 7  3 24 14    15.0 1   327.0     1.50    23.00    99.00    99.00
 7  3 24 15    15.0 1   335.0     2.10    23.50    99.00    99.00
 7  3 24 16    15.0 1   342.0     2.60    23.60    99.00    99.00
 7  3 24 17    15.0 1   346.0     2.60    23.10    99.00    99.00
 7  3 24 18    15.0 1     2.0     3.10    22.10    99.00    99.00
 7  3 24 19    15.0 1   345.0     2.60    21.00    99.00    99.00
 7  3 24 20    15.0 1   304.0     3.10    20.00    99.00    99.00
 7  3 24 21    15.0 1   286.0     4.60    18.40    99.00    99.00
 7  3 24 22    15.0 1   294.0     4.60    16.10    99.00    99.00
 7  3 24 23    15.0 1   292.0     4.10    15.10    99.00    99.00
 7  3 24 24    15.0 1   288.0     3.10    14.60    99.00    99.00
 7  3 25  1    15.0 1   276.0     1.50    14.30    99.00    99.00
 7  3 25  2    15.0 1   259.0     0.50    14.00    99.00    99.00
 7  3 25  3    15.0 1   222.0     1.00    13.80    99.00    99.00
 7  3 25  4    15.0 1   222.0     1.50    13.60    99.00    99.00
 7  3 25  5    15.0 1   249.0     1.50    13.40    99.00    99.00
 7  3 25  6    15.0 1   276.0     1.50    13.00    99.00    99.00
 7  3 25  7    15.0 1   299.0     2.10    12.60    99.00    99.00
 7  3 25  8    15.0 1   338.0     2.60    13.30    99.00    99.00
 7  3 25  9    15.0 1   330.0     2.10    14.40    99.00    99.00
 7  3 25 10    15.0 1   315.0     1.50    15.80    99.00    99.00
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 7   3 25 11     15.0 1   312.0      1.50     16.90     99.00     99.00
 7   3 25 12     15.0 1   312.0      1.50     18.00     99.00     99.00
 7   3 25 13     15.0 1   315.0      1.50     18.90     99.00     99.00
 7   3 25 14     15.0 1   316.0      1.50     19.60     99.00     99.00
 7   3 25 15     15.0 1   334.0      2.10     20.10     99.00     99.00
 7   3 25 16     15.0 1   345.0      2.10     20.10     99.00     99.00
 7   3 25 17     15.0 1   353.0      2.10     20.00     99.00     99.00
 7   3 25 18     15.0 1   347.0      2.10     19.40     99.00     99.00
 7   3 25 19     15.0 1   345.0      1.00     18.60     99.00     99.00
 7   3 25 20     15.0 1   292.0      1.50     18.00     99.00     99.00
 7   3 25 21     15.0 1   309.0      2.60     17.30     99.00     99.00
 7   3 25 22     15.0 1   332.0      4.10     16.10     99.00     99.00
 7   3 25 23     15.0 1   344.0      3.60     15.10     99.00     99.00
 7   3 25 24     15.0 1   337.0      3.10     14.60     99.00     99.00
 7   3 26  1     15.0 1   328.0      2.60     14.40     99.00     99.00
 7   3 26  2     15.0 1   343.0      2.10     14.10     99.00     99.00
 7   3 26  3     15.0 1   350.0      1.50     13.80     99.00     99.00
 7   3 26  4     15.0 1     6.0      1.00     13.50     99.00     99.00
 7   3 26  5     15.0 1    18.0      0.50     13.30     99.00     99.00
 7   3 26  6     15.0 1     0.0      0.00     13.10     99.00     99.00
 7   3 26  7     15.0 1     0.0      0.00     13.10     99.00     99.00
 7   3 26  8     15.0 1     0.0      0.00     13.10     99.00     99.00
 7   3 26  9     15.0 1    54.0      0.50     13.80     99.00     99.00
 7   3 26 10     15.0 1     0.0      0.00     14.50     99.00     99.00
 7   3 26 11     15.0 1     0.0      0.00     15.60     99.00     99.00
 7   3 26 12     15.0 1     0.0      0.00     17.10     99.00     99.00
 7   3 26 13     15.0 1     0.0      0.00     18.60     99.00     99.00
 7   3 26 14     15.0 1     0.0      0.00     20.10     99.00     99.00
 7   3 26 15     15.0 1     0.0      0.00     21.10     99.00     99.00
 7   3 26 16     15.0 1   282.0      4.10     21.80     99.00     99.00
 7   3 26 17     15.0 1   282.0      5.10     20.60     99.00     99.00
 7   3 26 18     15.0 1   282.0      7.20     17.10     99.00     99.00
 7   3 26 19     15.0 1   278.0      8.20     14.40     99.00     99.00
 7   3 26 20     15.0 1   281.0      5.70     13.10     99.00     99.00
 7   3 26 21     15.0 1   299.0      4.10     12.30     99.00     99.00
 7   3 26 22     15.0 1   302.0      3.10     11.80     99.00     99.00
 7   3 26 23     15.0 1   277.0      4.10     11.30     99.00     99.00
 7   3 26 24     15.0 1   277.0      4.60     10.60     99.00     99.00
 7   3 27  1     15.0 1   268.0      4.60     10.10     99.00     99.00
 7   3 27  2     15.0 1   275.0      4.60      9.80     99.00     99.00
 7   3 27  3     15.0 1   274.0      4.60      8.90     99.00     99.00
 7   3 27  4     15.0 1   278.0      4.60      8.30     99.00     99.00
 7   3 27  5     15.0 1   281.0      5.10      8.00     99.00     99.00
 7   3 27  6     15.0 1   290.0      4.60      7.80     99.00     99.00
 7   3 27  7     15.0 1   302.0      5.70      8.10     99.00     99.00
 7   3 27  8     15.0 1   324.0      7.70      9.60     99.00     99.00
 7   3 27  9     15.0 1   324.0      7.70     10.40     99.00     99.00
 7   3 27 10     15.0 1   323.0      7.70     11.30     99.00     99.00
 7   3 27 11     15.0 1   318.0      8.70     12.00     99.00     99.00
 7   3 27 12     15.0 1   321.0      9.80     12.60     99.00     99.00
 7   3 27 13     15.0 1   322.0     10.30     13.10     99.00     99.00
 7   3 27 14     15.0 1   330.0     11.30     13.60     99.00     99.00
 7   3 27 15     15.0 1   331.0     11.30     13.90     99.00     99.00
 7   3 27 16     15.0 1   331.0     10.30     13.90     99.00     99.00
 7   3 27 17     15.0 1   324.0      5.10     13.40     99.00     99.00
 7   3 27 18     15.0 1   323.0      4.60     12.10     99.00     99.00
 7   3 27 19     15.0 1   318.0      4.10     10.90     99.00     99.00
 7   3 27 20     15.0 1   345.0      2.10     10.40     99.00     99.00
 7   3 27 21     15.0 1     0.0      0.00      9.90     99.00     99.00
 7   3 27 22     15.0 1   185.0      0.50      9.40     99.00     99.00
 7   3 27 23     15.0 1   273.0      0.50      8.90     99.00     99.00
 7   3 27 24     15.0 1   304.0      1.50      8.40     99.00     99.00
 7   3 28  1     15.0 1   300.0      2.10      7.90     99.00     99.00
 7   3 28  2     15.0 1   301.0      2.10      7.50     99.00     99.00
 7   3 28  3     15.0 1   265.0      1.50      7.00     99.00     99.00
 7   3 28  4     15.0 1   211.0      2.60      6.50     99.00     99.00
 7   3 28  5     15.0 1   200.0      4.10      6.10     99.00     99.00
 7   3 28  6     15.0 1   202.0      3.60      5.80     99.00     99.00
 7   3 28  7     15.0 1   211.0      2.60      5.90     99.00     99.00
 7   3 28  8     15.0 1   355.0      2.10      7.90     99.00     99.00
 7   3 28  9     15.0 1   351.0      1.50      9.10     99.00     99.00
 7   3 28 10     15.0 1   354.0      1.00     10.80     99.00     99.00
 7   3 28 11     15.0 1   336.0      1.50     12.10     99.00     99.00
 7   3 28 12     15.0 1   333.0      2.60     13.50     99.00     99.00
 7   3 28 13     15.0 1   334.0      3.60     14.60     99.00     99.00
 7   3 28 14     15.0 1   342.0      4.10     15.40     99.00     99.00
 7   3 28 15     15.0 1   342.0      4.60     15.90     99.00     99.00
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7	3	28	16	15.0	1	343.0	4.60	16.10	99.00	99.00
7	3	28	17	15.0	1	338.0	3.60	15.90	99.00	99.00
7	3	28	18	15.0	1	329.0	3.10	15.30	99.00	99.00
7	3	28	19	15.0	1	325.0	3.10	14.10	99.00	99.00
7	3	28	20	15.0	1	317.0	2.10	13.10	99.00	99.00
7	3	28	21	15.0	1	323.0	1.00	12.30	99.00	99.00
7	3	28	22	15.0	1	0.0	0.00	11.40	99.00	99.00
7	3	28	23	15.0	1	146.0	1.00	10.40	99.00	99.00
7	3	28	24	15.0	1	162.0	2.10	9.30	99.00	99.00
7	3	29	1	15.0	1	179.0	1.50	8.60	99.00	99.00
7	3	29	2	15.0	1	214.0	1.50	8.40	99.00	99.00
7	3	29	3	15.0	1	246.0	1.50	8.10	99.00	99.00
7	3	29	4	15.0	1	277.0	1.50	7.80	99.00	99.00
7	3	29	5	15.0	1	291.0	1.50	7.50	99.00	99.00
7	3	29	6	15.0	1	278.0	1.50	7.10	99.00	99.00
7	3	29	7	15.0	1	256.0	1.50	7.00	99.00	99.00
7	3	29	8	15.0	1	297.0	1.50	9.30	99.00	99.00
7	3	29	9	15.0	1	270.0	1.00	11.10	99.00	99.00
7	3	29	10	15.0	1	261.0	1.00	12.80	99.00	99.00
7	3	29	11	15.0	1	271.0	1.00	14.60	99.00	99.00
7	3	29	12	15.0	1	284.0	1.00	16.10	99.00	99.00
7	3	29	13	15.0	1	289.0	1.00	17.60	99.00	99.00
7	3	29	14	15.0	1	306.0	1.50	18.80	99.00	99.00
7	3	29	15	15.0	1	327.0	1.50	19.30	99.00	99.00
7	3	29	16	15.0	1	338.0	2.10	19.50	99.00	99.00
7	3	29	17	15.0	1	352.0	2.10	19.40	99.00	99.00
7	3	29	18	15.0	1	0.0	0.00	18.90	99.00	99.00
7	3	29	19	15.0	1	0.0	0.00	17.60	99.00	99.00
7	3	29	20	15.0	1	179.0	0.50	16.10	99.00	99.00
7	3	29	21	15.0	1	166.0	1.00	14.60	99.00	99.00
7	3	29	22	15.0	1	165.0	1.50	13.60	99.00	99.00
7	3	29	23	15.0	1	135.0	2.10	12.60	99.00	99.00
7	3	29	24	15.0	1	111.0	2.10	11.80	99.00	99.00
7	3	30	1	15.0	1	125.0	2.60	11.30	99.00	99.00
7	3	30	2	15.0	1	129.0	1.50	10.80	99.00	99.00
7	3	30	3	15.0	1	150.0	0.50	10.00	99.00	99.00
7	3	30	4	15.0	1	261.0	1.00	9.40	99.00	99.00
7	3	30	5	15.0	1	276.0	1.50	9.00	99.00	99.00
7	3	30	6	15.0	1	285.0	2.10	8.80	99.00	99.00
7	3	30	7	15.0	1	291.0	2.10	8.60	99.00	99.00
7	3	30	8	15.0	1	319.0	2.10	11.10	99.00	99.00
7	3	30	9	15.0	1	317.0	0.50	13.10	99.00	99.00
7	3	30	10	15.0	1	0.0	0.00	15.60	99.00	99.00
7	3	30	11	15.0	1	0.0	0.00	17.50	99.00	99.00
7	3	30	12	15.0	1	292.0	0.50	18.90	99.00	99.00
7	3	30	13	15.0	1	304.0	0.50	20.10	99.00	99.00
7	3	30	14	15.0	1	309.0	1.00	21.10	99.00	99.00
7	3	30	15	15.0	1	333.0	1.50	21.60	99.00	99.00
7	3	30	16	15.0	1	345.0	2.10	21.80	99.00	99.00
7	3	30	17	15.0	1	348.0	2.60	21.40	99.00	99.00
7	3	30	18	15.0	1	14.0	3.10	20.50	99.00	99.00
7	3	30	19	15.0	1	20.0	3.10	19.10	99.00	99.00
7	3	30	20	15.0	1	17.0	2.10	18.10	99.00	99.00
7	3	30	21	15.0	1	25.0	1.00	17.00	99.00	99.00
7	3	30	22	15.0	1	294.0	0.50	16.00	99.00	99.00
7	3	30	23	15.0	1	297.0	1.50	15.10	99.00	99.00
7	3	30	24	15.0	1	311.0	2.60	14.60	99.00	99.00
7	3	31	1	15.0	1	326.0	2.60	14.00	99.00	99.00
7	3	31	2	15.0	1	333.0	1.50	13.40	99.00	99.00
7	3	31	3	15.0	1	314.0	1.00	12.60	99.00	99.00
7	3	31	4	15.0	1	292.0	1.50	11.80	99.00	99.00
7	3	31	5	15.0	1	277.0	1.50	11.10	99.00	99.00
7	3	31	6	15.0	1	276.0	1.50	10.50	99.00	99.00
7	3	31	7	15.0	1	283.0	1.00	10.40	99.00	99.00
7	3	31	8	15.0	1	308.0	1.00	13.10	99.00	99.00
7	3	31	9	15.0	1	0.0	0.00	15.10	99.00	99.00
7	3	31	10	15.0	1	0.0	0.00	17.10	99.00	99.00
7	3	31	11	15.0	1	301.0	0.50	18.90	99.00	99.00
7	3	31	12	15.0	1	311.0	1.00	20.10	99.00	99.00
7	3	31	13	15.0	1	318.0	1.50	21.40	99.00	99.00
7	3	31	14	15.0	1	322.0	2.10	22.10	99.00	99.00
7	3	31	15	15.0	1	335.0	3.10	22.50	99.00	99.00
7	3	31	16	15.0	1	335.0	3.10	23.00	99.00	99.00
7	3	31	17	15.0	1	344.0	2.60	22.60	99.00	99.00
7	3	31	18	15.0	1	357.0	3.10	21.90	99.00	99.00
7	3	31	19	15.0	1	1.0	3.60	20.60	99.00	99.00
7	3	31	20	15.0	1	353.0	4.10	19.40	99.00	99.00

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 7   3 31 21     15.0 1   351.0      3.60     18.30     99.00     99.00
 7   3 31 22     15.0 1   336.0      3.10     17.40     99.00     99.00
 7   3 31 23     15.0 1   316.0      2.60     16.60     99.00     99.00
 7   3 31 24     15.0 1   314.0      2.60     16.10     99.00     99.00
 7   4  1  1     15.0 1   319.0      2.10     15.80     99.00     99.00
 7   4  1  2     15.0 1   339.0      1.50     15.50     99.00     99.00
 7   4  1  3     15.0 1    14.0      0.50     15.10     99.00     99.00
 7   4  1  4     15.0 1     0.0      0.00     14.80     99.00     99.00
 7   4  1  5     15.0 1     0.0      0.00     14.40     99.00     99.00
 7   4  1  6     15.0 1     0.0      0.00     14.10     99.00     99.00
 7   4  1  7     15.0 1     0.0      0.00     13.90     99.00     99.00
 7   4  1  8     15.0 1     0.0      0.00     15.30     99.00     99.00
 7   4  1  9     15.0 1   236.0      0.50     16.60     99.00     99.00
 7   4  1 10     15.0 1   242.0      1.00     17.80     99.00     99.00
 7   4  1 11     15.0 1   265.0      0.50     19.30     99.00     99.00
 7   4  1 12     15.0 1   287.0      0.50     20.60     99.00     99.00
 7   4  1 13     15.0 1   298.0      1.00     21.60     99.00     99.00
 7   4  1 14     15.0 1   311.0      1.00     22.50     99.00     99.00
 7   4  1 15     15.0 1   338.0      1.50     23.10     99.00     99.00
 7   4  1 16     15.0 1     4.0      2.60     23.30     99.00     99.00
 7   4  1 17     15.0 1     8.0      3.10     23.10     99.00     99.00
 7   4  1 18     15.0 1    12.0      4.10     22.00     99.00     99.00
 7   4  1 19     15.0 1    15.0      3.60     20.60     99.00     99.00
 7   4  1 20     15.0 1   350.0      3.10     19.90     99.00     99.00
 7   4  1 21     15.0 1   332.0      4.10     18.80     99.00     99.00
 7   4  1 22     15.0 1   335.0      4.10     17.40     99.00     99.00
 7   4  1 23     15.0 1   328.0      3.60     16.60     99.00     99.00
 7   4  1 24     15.0 1   335.0      3.60     15.90     99.00     99.00
 7   4  2  1     15.0 1   344.0      3.60     15.00     99.00     99.00
 7   4  2  2     15.0 1   345.0      3.10     14.30     99.00     99.00
 7   4  2  3     15.0 1   339.0      2.10     13.80     99.00     99.00
 7   4  2  4     15.0 1   317.0      1.50     13.50     99.00     99.00
 7   4  2  5     15.0 1   314.0      1.00     13.10     99.00     99.00
 7   4  2  6     15.0 1   312.0      0.50     12.60     99.00     99.00
 7   4  2  7     15.0 1     0.0      0.00     12.60     99.00     99.00
 7   4  2  8     15.0 1   350.0      1.00     14.10     99.00     99.00
 7   4  2  9     15.0 1     0.0      0.00     15.60     99.00     99.00
 7   4  2 10     15.0 1   291.0      0.50     17.00     99.00     99.00
 7   4  2 11     15.0 1   304.0      1.00     18.40     99.00     99.00
 7   4  2 12     15.0 1   301.0      1.00     19.80     99.00     99.00
 7   4  2 13     15.0 1   309.0      1.50     20.90     99.00     99.00
 7   4  2 14     15.0 1   317.0      2.60     21.60     99.00     99.00
 7   4  2 15     15.0 1   330.0      3.10     22.00     99.00     99.00
 7   4  2 16     15.0 1   329.0      3.60     21.90     99.00     99.00
 7   4  2 17     15.0 1   340.0      3.10     21.50     99.00     99.00
 7   4  2 18     15.0 1   355.0      3.60     20.40     99.00     99.00
 7   4  2 19     15.0 1   344.0      3.60     19.00     99.00     99.00
 7   4  2 20     15.0 1   326.0      3.60     18.10     99.00     99.00
 7   4  2 21     15.0 1   319.0      3.10     17.50     99.00     99.00
 7   4  2 22     15.0 1   309.0      3.10     17.00     99.00     99.00
 7   4  2 23     15.0 1   308.0      3.10     16.40     99.00     99.00
 7   4  2 24     15.0 1   316.0      2.60     15.80     99.00     99.00
 7   4  3  1     15.0 1   340.0      1.50     15.10     99.00     99.00
 7   4  3  2     15.0 1   352.0      1.00     14.50     99.00     99.00
 7   4  3  3     15.0 1   356.0      0.50     13.80     99.00     99.00
 7   4  3  4     15.0 1   336.0      0.50     13.30     99.00     99.00
 7   4  3  5     15.0 1   328.0      0.50     12.60     99.00     99.00
 7   4  3  6     15.0 1   325.0      0.50     12.10     99.00     99.00
 7   4  3  7     15.0 1   310.0      0.50     12.10     99.00     99.00
 7   4  3  8     15.0 1   314.0      0.50     14.40     99.00     99.00
 7   4  3  9     15.0 1     0.0      0.00     16.10     99.00     99.00
 7   4  3 10     15.0 1     0.0      0.00     17.90     99.00     99.00
 7   4  3 11     15.0 1     0.0      0.00     19.50     99.00     99.00
 7   4  3 12     15.0 1     0.0      0.00     20.90     99.00     99.00
 7   4  3 13     15.0 1   302.0      0.50     22.00     99.00     99.00
 7   4  3 14     15.0 1   307.0      0.50     22.80     99.00     99.00
 7   4  3 15     15.0 1   325.0      1.50     23.30     99.00     99.00
 7   4  3 16     15.0 1   333.0      2.60     23.00     99.00     99.00
 7   4  3 17     15.0 1   353.0      3.10     22.30     99.00     99.00
 7   4  3 18     15.0 1     0.0      0.00     21.50     99.00     99.00
 7   4  3 19     15.0 1   349.0      1.50     20.60     99.00     99.00
 7   4  3 20     15.0 1   297.0      0.50     19.60     99.00     99.00
 7   4  3 21     15.0 1   301.0      0.50     18.60     99.00     99.00
 7   4  3 22     15.0 1   358.0      0.50     18.10     99.00     99.00
 7   4  3 23     15.0 1    38.0      0.50     17.90     99.00     99.00
 7   4  3 24     15.0 1   323.0      0.50     17.60     99.00     99.00
 7   4  4  1     15.0 1   293.0      1.50     17.30     99.00     99.00
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 7  4  4  2    15.0 1   312.0     1.50    17.10    99.00    99.00
 7  4  4  3    15.0 1   342.0     2.60    16.90    99.00    99.00
 7  4  4  4    15.0 1    10.0     3.60    16.10    99.00    99.00
 7  4  4  5    15.0 1    38.0     2.60    15.60    99.00    99.00
 7  4  4  6    15.0 1     0.0     0.00    15.40    99.00    99.00
 7  4  4  7    15.0 1   281.0     2.60    15.10    99.00    99.00
 7  4  4  8    15.0 1   334.0     2.60    15.90    99.00    99.00
 7  4  4  9    15.0 1   336.0     1.00    17.10    99.00    99.00
 7  4  4 10    15.0 1     0.0     0.00    18.60    99.00    99.00
 7  4  4 11    15.0 1   196.0     1.00    19.90    99.00    99.00
 7  4  4 12    15.0 1   255.0     1.00    20.60    99.00    99.00
 7  4  4 13    15.0 1     0.0     0.00    21.10    99.00    99.00
 7  4  4 14    15.0 1    22.0     1.50    21.50    99.00    99.00
 7  4  4 15    15.0 1    18.0     3.10    21.60    99.00    99.00
 7  4  4 16    15.0 1    26.0     2.60    21.60    99.00    99.00
 7  4  4 17    15.0 1    74.0     0.50    21.50    99.00    99.00
 7  4  4 18    15.0 1   236.0     1.50    21.00    99.00    99.00
 7  4  4 19    15.0 1   246.0     3.10    20.40    99.00    99.00
 7  4  4 20    15.0 1   265.0     3.10    20.00    99.00    99.00
 7  4  4 21    15.0 1   321.0     1.00    19.60    99.00    99.00
 7  4  4 22    15.0 1    44.0     1.00    19.10    99.00    99.00
 7  4  4 23    15.0 1    50.0     0.50    18.80    99.00    99.00
 7  4  4 24    15.0 1     0.0     0.00    18.50    99.00    99.00
 7  4  5  1    15.0 1   325.0     0.50    18.10    99.00    99.00
 7  4  5  2    15.0 1   351.0     1.00    18.00    99.00    99.00
 7  4  5  3    15.0 1   342.0     0.50    17.60    99.00    99.00
 7  4  5  4    15.0 1   324.0     0.50    17.30    99.00    99.00
 7  4  5  5    15.0 1   321.0     1.00    16.90    99.00    99.00
 7  4  5  6    15.0 1   229.0     0.50    16.60    99.00    99.00
 7  4  5  7    15.0 1   245.0     0.50    16.40    99.00    99.00
 7  4  5  8    15.0 1   340.0     0.50    16.80    99.00    99.00
 7  4  5  9    15.0 1   338.0     0.50    17.80    99.00    99.00
 7  4  5 10    15.0 1   314.0     1.00    19.30    99.00    99.00
 7  4  5 11    15.0 1   315.0     1.00    20.60    99.00    99.00
 7  4  5 12    15.0 1   312.0     1.50    21.80    99.00    99.00
 7  4  5 13    15.0 1   343.0     1.50    22.90    99.00    99.00
 7  4  5 14    15.0 1   355.0     2.60    23.60    99.00    99.00
 7  4  5 15    15.0 1   346.0     2.60    24.00    99.00    99.00
 7  4  5 16    15.0 1    20.0     2.60    24.40    99.00    99.00
 7  4  5 17    15.0 1    22.0     2.10    24.00    99.00    99.00
 7  4  5 18    15.0 1    19.0     1.00    23.30    99.00    99.00
 7  4  5 19    15.0 1     0.0     0.00    22.50    99.00    99.00
 7  4  5 20    15.0 1   214.0     0.50    21.60    99.00    99.00
 7  4  5 21    15.0 1   234.0     1.00    21.10    99.00    99.00
 7  4  5 22    15.0 1   259.0     2.60    20.30    99.00    99.00
 7  4  5 23    15.0 1   281.0     3.10    18.90    99.00    99.00
 7  4  5 24    15.0 1   284.0     3.60    17.90    99.00    99.00
 7  4  6  1    15.0 1   266.0     2.60    17.40    99.00    99.00
 7  4  6  2    15.0 1   262.0     2.60    17.10    99.00    99.00
 7  4  6  3    15.0 1   241.0     2.10    16.60    99.00    99.00
 7  4  6  4    15.0 1   254.0     1.50    16.30    99.00    99.00
 7  4  6  5    15.0 1   261.0     1.00    15.90    99.00    99.00
 7  4  6  6    15.0 1   287.0     0.50    15.60    99.00    99.00
 7  4  6  7    15.0 1     0.0     0.00    15.60    99.00    99.00
 7  4  6  8    15.0 1   341.0     1.50    18.10    99.00    99.00
 7  4  6  9    15.0 1   308.0     1.00    19.10    99.00    99.00
 7  4  6 10    15.0 1   301.0     1.00    20.50    99.00    99.00
 7  4  6 11    15.0 1   305.0     1.50    21.80    99.00    99.00
 7  4  6 12    15.0 1   304.0     1.50    23.00    99.00    99.00
 7  4  6 13    15.0 1   308.0     2.10    24.10    99.00    99.00
 7  4  6 14    15.0 1   324.0     2.60    24.80    99.00    99.00
 7  4  6 15    15.0 1   324.0     2.60    25.10    99.00    99.00
 7  4  6 16    15.0 1   342.0     3.10    25.50    99.00    99.00
 7  4  6 17    15.0 1   339.0     2.10    25.40    99.00    99.00
 7  4  6 18    15.0 1   329.0     1.50    25.00    99.00    99.00
 7  4  6 19    15.0 1   294.0     1.50    24.00    99.00    99.00
 7  4  6 20    15.0 1   258.0     5.10    21.80    99.00    99.00
 7  4  6 21    15.0 1   270.0     6.20    18.60    99.00    99.00
 7  4  6 22    15.0 1   292.0     4.60    17.60    99.00    99.00
 7  4  6 23    15.0 1   303.0     3.10    17.00    99.00    99.00
 7  4  6 24    15.0 1   316.0     2.60    16.60    99.00    99.00
 7  4  7  1    15.0 1   313.0     1.50    16.50    99.00    99.00
 7  4  7  2    15.0 1   283.0     1.00    16.10    99.00    99.00
 7  4  7  3    15.0 1   273.0     1.00    15.60    99.00    99.00
 7  4  7  4    15.0 1   284.0     1.50    15.40    99.00    99.00
 7  4  7  5    15.0 1     0.0     0.00    15.30    99.00    99.00
 7  4  7  6    15.0 1     0.0     0.00    15.00    99.00    99.00
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 7  4  7  7    15.0 1     0.0     0.00    14.90    99.00    99.00
 7  4  7  8    15.0 1    54.0     0.50    15.60    99.00    99.00
 7  4  7  9    15.0 1     0.0     0.00    16.80    99.00    99.00
 7  4  7 10    15.0 1     0.0     0.00    17.60    99.00    99.00
 7  4  7 11    15.0 1   349.0     0.50    18.80    99.00    99.00
 7  4  7 12    15.0 1   327.0     0.50    20.40    99.00    99.00
 7  4  7 13    15.0 1   306.0     1.00    21.50    99.00    99.00
 7  4  7 14    15.0 1   317.0     1.50    22.50    99.00    99.00
 7  4  7 15    15.0 1   331.0     2.10    23.30    99.00    99.00
 7  4  7 16    15.0 1   346.0     2.60    23.60    99.00    99.00
 7  4  7 17    15.0 1   359.0     2.60    23.60    99.00    99.00
 7  4  7 18    15.0 1    13.0     2.10    23.30    99.00    99.00
 7  4  7 19    15.0 1   360.0     1.50    22.40    99.00    99.00
 7  4  7 20    15.0 1   294.0     1.50    21.50    99.00    99.00
 7  4  7 21    15.0 1   288.0     4.10    20.60    99.00    99.00
 7  4  7 22    15.0 1   313.0     4.10    19.10    99.00    99.00
 7  4  7 23    15.0 1   312.0     3.60    18.40    99.00    99.00
 7  4  7 24    15.0 1   305.0     3.60    17.60    99.00    99.00
 7  4  8  1    15.0 1   299.0     3.60    17.10    99.00    99.00
 7  4  8  2    15.0 1   299.0     3.60    16.80    99.00    99.00
 7  4  8  3    15.0 1   298.0     3.10    16.40    99.00    99.00
 7  4  8  4    15.0 1   306.0     2.60    16.00    99.00    99.00
 7  4  8  5    15.0 1   299.0     3.10    15.50    99.00    99.00
 7  4  8  6    15.0 1   298.0     3.10    15.10    99.00    99.00
 7  4  8  7    15.0 1   300.0     3.10    14.90    99.00    99.00
 7  4  8  8    15.0 1   327.0     4.10    16.10    99.00    99.00
 7  4  8  9    15.0 1   344.0     3.10    17.00    99.00    99.00
 7  4  8 10    15.0 1   351.0     1.50    17.80    99.00    99.00
 7  4  8 11    15.0 1     0.0     0.00    19.00    99.00    99.00
 7  4  8 12    15.0 1     0.0     0.00    20.10    99.00    99.00
 7  4  8 13    15.0 1   332.0     0.50    21.10    99.00    99.00
 7  4  8 14    15.0 1   342.0     1.50    22.10    99.00    99.00
 7  4  8 15    15.0 1   337.0     2.60    22.80    99.00    99.00
 7  4  8 16    15.0 1   347.0     3.60    23.00    99.00    99.00
 7  4  8 17    15.0 1     4.0     3.60    22.60    99.00    99.00
 7  4  8 18    15.0 1   347.0     3.60    21.90    99.00    99.00
 7  4  8 19    15.0 1   352.0     4.10    20.40    99.00    99.00
 7  4  8 20    15.0 1   340.0     4.10    19.10    99.00    99.00
 7  4  8 21    15.0 1   338.0     3.60    18.10    99.00    99.00
 7  4  8 22    15.0 1   339.0     3.10    17.50    99.00    99.00
 7  4  8 23    15.0 1   327.0     2.60    16.60    99.00    99.00
 7  4  8 24    15.0 1   328.0     3.10    15.80    99.00    99.00
 7  4  9  1    15.0 1   348.0     2.10    14.90    99.00    99.00
 7  4  9  2    15.0 1    23.0     1.50    14.10    99.00    99.00
 7  4  9  3    15.0 1    54.0     1.00    13.50    99.00    99.00
 7  4  9  4    15.0 1    51.0     1.00    13.00    99.00    99.00
 7  4  9  5    15.0 1    38.0     1.00    12.50    99.00    99.00
 7  4  9  6    15.0 1    33.0     0.50    12.00    99.00    99.00
 7  4  9  7    15.0 1    12.0     1.50    12.30    99.00    99.00
 7  4  9  8    15.0 1   355.0     2.60    13.50    99.00    99.00
 7  4  9  9    15.0 1   342.0     2.10    14.50    99.00    99.00
 7  4  9 10    15.0 1   327.0     1.50    15.60    99.00    99.00
 7  4  9 11    15.0 1   323.0     2.60    17.00    99.00    99.00
 7  4  9 12    15.0 1   322.0     4.60    17.40    99.00    99.00
 7  4  9 13    15.0 1   318.0     5.10    17.30    99.00    99.00
 7  4  9 14    15.0 1   320.0     5.70    17.60    99.00    99.00
 7  4  9 15    15.0 1   334.0     6.20    18.30    99.00    99.00
 7  4  9 16    15.0 1   336.0     7.20    18.30    99.00    99.00
 7  4  9 17    15.0 1   328.0     6.70    18.10    99.00    99.00
 7  4  9 18    15.0 1   317.0     3.60    17.60    99.00    99.00
 7  4  9 19    15.0 1   325.0     4.60    16.50    99.00    99.00
 7  4  9 20    15.0 1   331.0     4.10    15.40    99.00    99.00
 7  4  9 21    15.0 1   325.0     3.60    14.60    99.00    99.00
 7  4  9 22    15.0 1   316.0     3.60    13.90    99.00    99.00
 7  4  9 23    15.0 1   316.0     3.60    13.10    99.00    99.00
 7  4  9 24    15.0 1   320.0     3.10    12.10    99.00    99.00
 7  4 10  1    15.0 1   310.0     2.10    11.60    99.00    99.00
 7  4 10  2    15.0 1   294.0     1.00    11.10    99.00    99.00
 7  4 10  3    15.0 1   208.0     0.50    10.80    99.00    99.00
 7  4 10  4    15.0 1     0.0     0.00    10.60    99.00    99.00
 7  4 10  5    15.0 1     0.0     0.00    10.10    99.00    99.00
 7  4 10  6    15.0 1     0.0     0.00     9.50    99.00    99.00
 7  4 10  7    15.0 1     0.0     0.00     9.80    99.00    99.00
 7  4 10  8    15.0 1     0.0     0.00    11.90    99.00    99.00
 7  4 10  9    15.0 1     0.0     0.00    13.40    99.00    99.00
 7  4 10 10    15.0 1     0.0     0.00    15.10    99.00    99.00
 7  4 10 11    15.0 1     0.0     0.00    16.60    99.00    99.00
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 7   4 10 12     15.0 1    304.0      0.50     18.10     99.00     99.00
 7   4 10 13     15.0 1    311.0      1.50     19.10     99.00     99.00
 7   4 10 14     15.0 1    323.0      2.10     19.60     99.00     99.00
 7   4 10 15     15.0 1    328.0      3.10     20.10     99.00     99.00
 7   4 10 16     15.0 1    328.0      3.60     20.40     99.00     99.00
 7   4 10 17     15.0 1    328.0      2.60     20.10     99.00     99.00
 7   4 10 18     15.0 1    321.0      3.10     19.50     99.00     99.00
 7   4 10 19     15.0 1    322.0      3.60     18.30     99.00     99.00
 7   4 10 20     15.0 1    314.0      3.60     17.10     99.00     99.00
 7   4 10 21     15.0 1    309.0      3.10     16.60     99.00     99.00
 7   4 10 22     15.0 1    313.0      2.10     16.10     99.00     99.00
 7   4 10 23     15.0 1    302.0      1.50     15.40     99.00     99.00
 7   4 10 24     15.0 1    296.0      2.10     14.60     99.00     99.00
 7   4 11  1     15.0 1    296.0      2.60     13.80     99.00     99.00
 7   4 11  2     15.0 1    300.0      2.60     13.10     99.00     99.00
 7   4 11  3     15.0 1    300.0      2.10     12.50     99.00     99.00
 7   4 11  4     15.0 1    286.0      2.10     11.90     99.00     99.00
 7   4 11  5     15.0 1    304.0      1.00     11.40     99.00     99.00
 7   4 11  6     15.0 1    300.0      0.50     11.00     99.00     99.00
 7   4 11  7     15.0 1    305.0      1.00     11.30     99.00     99.00
 7   4 11  8     15.0 1    320.0      2.10     13.40     99.00     99.00
 7   4 11  9     15.0 1    324.0      1.50     14.60     99.00     99.00
 7   4 11 10     15.0 1    297.0      1.00     15.90     99.00     99.00
 7   4 11 11     15.0 1    294.0      1.00     17.10     99.00     99.00
 7   4 11 12     15.0 1    306.0      1.00     18.30     99.00     99.00
 7   4 11 13     15.0 1    329.0      1.50     19.40     99.00     99.00
 7   4 11 14     15.0 1    324.0      4.10     19.80     99.00     99.00
 7   4 11 15     15.0 1    314.0      6.20     19.50     99.00     99.00
 7   4 11 16     15.0 1    322.0      7.20     18.90     99.00     99.00
 7   4 11 17     15.0 1    323.0      4.60     18.50     99.00     99.00
 7   4 11 18     15.0 1    311.0      4.10     17.60     99.00     99.00
 7   4 11 19     15.0 1    298.0      4.10     16.30     99.00     99.00
 7   4 11 20     15.0 1    306.0      4.60     15.10     99.00     99.00
 7   4 11 21     15.0 1    326.0      4.60     14.10     99.00     99.00
 7   4 11 22     15.0 1    319.0      4.60     13.30     99.00     99.00
 7   4 11 23     15.0 1    325.0      4.60     12.50     99.00     99.00
 7   4 11 24     15.0 1    307.0      5.10     11.60     99.00     99.00
 7   4 12  1     15.0 1    306.0      6.20     10.30     99.00     99.00
 7   4 12  2     15.0 1    308.0      6.20      9.50     99.00     99.00
 7   4 12  3     15.0 1    320.0      6.70      8.80     99.00     99.00
 7   4 12  4     15.0 1    319.0      5.70      8.10     99.00     99.00
 7   4 12  5     15.0 1    311.0      4.60      7.60     99.00     99.00
 7   4 12  6     15.0 1    313.0      4.10      7.10     99.00     99.00
 7   4 12  7     15.0 1    335.0      8.20      8.40     99.00     99.00
 7   4 12  8     15.0 1    331.0      8.70      9.60     99.00     99.00
 7   4 12  9     15.0 1    332.0      8.20     10.80     99.00     99.00
 7   4 12 10     15.0 1    331.0      8.20     11.80     99.00     99.00
 7   4 12 11     15.0 1    329.0      8.20     12.80     99.00     99.00
 7   4 12 12     15.0 1    326.0      8.20     13.60     99.00     99.00
 7   4 12 13     15.0 1    326.0      8.20     14.60     99.00     99.00
 7   4 12 14     15.0 1    335.0      7.20     15.50     99.00     99.00
 7   4 12 15     15.0 1    326.0      7.20     16.10     99.00     99.00
 7   4 12 16     15.0 1    327.0      6.70     16.60     99.00     99.00
 7   4 12 17     15.0 1    326.0      4.60     16.80     99.00     99.00
 7   4 12 18     15.0 1    306.0      3.60     16.10     99.00     99.00
 7   4 12 19     15.0 1    295.0      3.10     15.50     99.00     99.00
 7   4 12 20     15.0 1    282.0      2.60     14.80     99.00     99.00
 7   4 12 21     15.0 1    262.0      2.60     13.80     99.00     99.00
 7   4 12 22     15.0 1    250.0      3.10     12.60     99.00     99.00
 7   4 12 23     15.0 1    258.0      4.10     11.50     99.00     99.00
 7   4 12 24     15.0 1    273.0      2.60     10.50     99.00     99.00
 7   4 13  1     15.0 1    303.0      0.50     10.00     99.00     99.00
 7   4 13  2     15.0 1    272.0      1.00      9.30     99.00     99.00
 7   4 13  3     15.0 1    292.0      1.50      8.80     99.00     99.00
 7   4 13  4     15.0 1    301.0      2.10      8.10     99.00     99.00
 7   4 13  5     15.0 1    294.0      2.10      7.80     99.00     99.00
 7   4 13  6     15.0 1    257.0      2.10      7.40     99.00     99.00
 7   4 13  7     15.0 1    256.0      2.10      8.00     99.00     99.00
 7   4 13  8     15.0 1    299.0      1.50     10.40     99.00     99.00
 7   4 13  9     15.0 1    291.0      1.00     12.60     99.00     99.00
 7   4 13 10     15.0 1    302.0      0.50     14.50     99.00     99.00
 7   4 13 11     15.0 1    290.0      0.50     16.30     99.00     99.00
 7   4 13 12     15.0 1    289.0      0.50     17.80     99.00     99.00
 7   4 13 13     15.0 1    291.0      1.00     19.00     99.00     99.00
 7   4 13 14     15.0 1    325.0      1.00     20.10     99.00     99.00
 7   4 13 15     15.0 1    335.0      1.50     20.90     99.00     99.00
 7   4 13 16     15.0 1    353.0      2.60     21.00     99.00     99.00
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 7  4 13 17    15.0 1     2.0     2.60    20.40    99.00    99.00
 7  4 13 18    15.0 1    14.0     2.60    19.80    99.00    99.00
 7  4 13 19    15.0 1    14.0     1.50    18.60    99.00    99.00
 7  4 13 20    15.0 1   294.0     0.50    17.50    99.00    99.00
 7  4 13 21    15.0 1   251.0     1.00    16.60    99.00    99.00
 7  4 13 22    15.0 1   265.0     2.10    16.10    99.00    99.00
 7  4 13 23    15.0 1   257.0     2.60    15.50    99.00    99.00
 7  4 13 24    15.0 1   257.0     3.10    14.90    99.00    99.00
 7  4 14  1    15.0 1   274.0     3.10    14.30    99.00    99.00
 7  4 14  2    15.0 1   295.0     3.10    13.80    99.00    99.00
 7  4 14  3    15.0 1   288.0     3.10    13.30    99.00    99.00
 7  4 14  4    15.0 1   287.0     3.60    12.80    99.00    99.00
 7  4 14  5    15.0 1   305.0     3.10    12.50    99.00    99.00
 7  4 14  6    15.0 1   303.0     2.60    12.40    99.00    99.00
 7  4 14  7    15.0 1   312.0     1.50    12.40    99.00    99.00
 7  4 14  8    15.0 1   283.0     2.60    13.10    99.00    99.00
 7  4 14  9    15.0 1   282.0     2.60    14.30    99.00    99.00
 7  4 14 10    15.0 1   246.0     1.50    15.60    99.00    99.00
 7  4 14 11    15.0 1   233.0     0.50    17.30    99.00    99.00
 7  4 14 12    15.0 1     0.0     0.00    18.90    99.00    99.00
 7  4 14 13    15.0 1     0.0     0.00    20.10    99.00    99.00
 7  4 14 14    15.0 1   260.0     3.10    20.40    99.00    99.00
 7  4 14 15    15.0 1   275.0     5.10    20.10    99.00    99.00
 7  4 14 16    15.0 1   271.0     7.20    19.60    99.00    99.00
 7  4 14 17    15.0 1   278.0     8.70    18.00    99.00    99.00
 7  4 14 18    15.0 1   271.0     6.70    15.90    99.00    99.00
 7  4 14 19    15.0 1   258.0     5.70    14.10    99.00    99.00
 7  4 14 20    15.0 1   267.0     6.20    13.10    99.00    99.00
 7  4 14 21    15.0 1   280.0     5.70    12.10    99.00    99.00
 7  4 14 22    15.0 1   276.0     5.10    11.40    99.00    99.00
 7  4 14 23    15.0 1   284.0     5.10    10.80    99.00    99.00
 7  4 14 24    15.0 1   284.0     5.70    10.80    99.00    99.00
 7  4 15  1    15.0 1   291.0     5.70    10.60    99.00    99.00
 7  4 15  2    15.0 1   288.0     5.10    10.50    99.00    99.00
 7  4 15  3    15.0 1   300.0     4.60    10.40    99.00    99.00
 7  4 15  4    15.0 1   302.0     4.10     9.90    99.00    99.00
 7  4 15  5    15.0 1   305.0     3.10     9.30    99.00    99.00
 7  4 15  6    15.0 1   280.0     2.60     8.60    99.00    99.00
 7  4 15  7    15.0 1   303.0     3.10     9.30    99.00    99.00
 7  4 15  8    15.0 1   332.0     6.20    10.90    99.00    99.00
 7  4 15  9    15.0 1   329.0     6.70    12.10    99.00    99.00
 7  4 15 10    15.0 1   341.0     5.70    13.00    99.00    99.00
 7  4 15 11    15.0 1   340.0     5.70    14.40    99.00    99.00
 7  4 15 12    15.0 1   340.0     5.70    15.50    99.00    99.00
 7  4 15 13    15.0 1   338.0     5.10    16.60    99.00    99.00
 7  4 15 14    15.0 1   341.0     5.70    17.50    99.00    99.00
 7  4 15 15    15.0 1   326.0     5.70    18.10    99.00    99.00
 7  4 15 16    15.0 1   352.0     4.60    18.50    99.00    99.00
 7  4 15 17    15.0 1     0.0     0.00    18.10    99.00    99.00
 7  4 15 18    15.0 1   104.0     1.50    18.00    99.00    99.00
 7  4 15 19    15.0 1   143.0     4.10    16.50    99.00    99.00
 7  4 15 20    15.0 1   164.0     5.70    14.10    99.00    99.00
 7  4 15 21    15.0 1   165.0     5.10    13.10    99.00    99.00
 7  4 15 22    15.0 1   141.0     5.10    12.50    99.00    99.00
 7  4 15 23    15.0 1   145.0     5.10    12.00    99.00    99.00
 7  4 15 24    15.0 1   144.0     4.10    11.50    99.00    99.00
 7  4 16  1    15.0 1   138.0     2.60    11.10    99.00    99.00
 7  4 16  2    15.0 1   147.0     1.00    10.50    99.00    99.00
 7  4 16  3    15.0 1   213.0     0.50     9.90    99.00    99.00
 7  4 16  4    15.0 1   292.0     1.00     9.50    99.00    99.00
 7  4 16  5    15.0 1   305.0     1.50     9.10    99.00    99.00
 7  4 16  6    15.0 1   314.0     1.50     8.80    99.00    99.00
 7  4 16  7    15.0 1   333.0     2.10    10.10    99.00    99.00
 7  4 16  8    15.0 1   343.0     2.10    13.00    99.00    99.00
 7  4 16  9    15.0 1   345.0     0.50    15.30    99.00    99.00
 7  4 16 10    15.0 1     0.0     0.00    16.90    99.00    99.00
 7  4 16 11    15.0 1     0.0     0.00    18.50    99.00    99.00
 7  4 16 12    15.0 1     0.0     0.00    19.80    99.00    99.00
 7  4 16 13    15.0 1     0.0     0.00    20.90    99.00    99.00
 7  4 16 14    15.0 1     0.0     0.00    21.90    99.00    99.00
 7  4 16 15    15.0 1     0.0     0.00    22.60    99.00    99.00
 7  4 16 16    15.0 1     0.0     0.00    23.00    99.00    99.00
 7  4 16 17    15.0 1    16.0     0.50    23.00    99.00    99.00
 7  4 16 18    15.0 1    21.0     1.00    22.60    99.00    99.00
 7  4 16 19    15.0 1     8.0     1.50    21.50    99.00    99.00
 7  4 16 20    15.0 1   349.0     2.10    20.30    99.00    99.00
 7  4 16 21    15.0 1     6.0     0.50    18.90    99.00    99.00
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7	4	16	22	15.0	1	125.0	0.50	17.40	99.00	99.00
7	4	16	23	15.0	1	178.0	0.50	16.40	99.00	99.00
7	4	16	24	15.0	1	17.0	0.50	16.00	99.00	99.00
7	4	17	1	15.0	1	349.0	2.10	15.50	99.00	99.00
7	4	17	2	15.0	1	349.0	3.10	14.80	99.00	99.00
7	4	17	3	15.0	1	336.0	3.10	13.80	99.00	99.00
7	4	17	4	15.0	1	337.0	3.10	13.00	99.00	99.00
7	4	17	5	15.0	1	340.0	2.60	12.50	99.00	99.00
7	4	17	6	15.0	1	349.0	2.60	12.10	99.00	99.00
7	4	17	7	15.0	1	356.0	2.10	12.10	99.00	99.00
7	4	17	8	15.0	1	360.0	2.60	13.60	99.00	99.00
7	4	17	9	15.0	1	347.0	1.50	15.60	99.00	99.00
7	4	17	10	15.0	1	326.0	1.00	17.10	99.00	99.00
7	4	17	11	15.0	1	329.0	1.50	18.50	99.00	99.00
7	4	17	12	15.0	1	329.0	2.10	19.60	99.00	99.00
7	4	17	13	15.0	1	340.0	3.60	20.40	99.00	99.00
7	4	17	14	15.0	1	355.0	5.10	20.60	99.00	99.00
7	4	17	15	15.0	1	352.0	6.70	20.30	99.00	99.00
7	4	17	16	15.0	1	349.0	7.20	19.60	99.00	99.00
7	4	17	17	15.0	1	352.0	6.70	18.50	99.00	99.00
7	4	17	18	15.0	1	3.0	4.60	16.80	99.00	99.00
7	4	17	19	15.0	1	347.0	4.60	14.90	99.00	99.00
7	4	17	20	15.0	1	320.0	4.60	13.60	99.00	99.00
7	4	17	21	15.0	1	309.0	5.10	12.00	99.00	99.00
7	4	17	22	15.0	1	315.0	5.70	10.60	99.00	99.00
7	4	17	23	15.0	1	312.0	5.10	10.00	99.00	99.00
7	4	17	24	15.0	1	315.0	5.10	9.30	99.00	99.00
7	4	18	1	15.0	1	309.0	4.60	8.60	99.00	99.00
7	4	18	2	15.0	1	309.0	4.10	7.80	99.00	99.00
7	4	18	3	15.0	1	298.0	3.60	6.90	99.00	99.00
7	4	18	4	15.0	1	307.0	3.60	6.40	99.00	99.00
7	4	18	5	15.0	1	314.0	3.10	5.90	99.00	99.00
7	4	18	6	15.0	1	308.0	3.10	5.60	99.00	99.00
7	4	18	7	15.0	1	335.0	6.20	7.50	99.00	99.00
7	4	18	8	15.0	1	332.0	6.70	8.90	99.00	99.00
7	4	18	9	15.0	1	338.0	6.70	9.60	99.00	99.00
7	4	18	10	15.0	1	344.0	7.20	10.60	99.00	99.00
7	4	18	11	15.0	1	344.0	8.20	11.40	99.00	99.00
7	4	18	12	15.0	1	327.0	8.20	11.90	99.00	99.00
7	4	18	13	15.0	1	335.0	8.20	12.60	99.00	99.00
7	4	18	14	15.0	1	335.0	8.20	13.10	99.00	99.00
7	4	18	15	15.0	1	334.0	7.70	13.80	99.00	99.00
7	4	18	16	15.0	1	335.0	7.70	14.00	99.00	99.00
7	4	18	17	15.0	1	331.0	5.70	13.80	99.00	99.00
7	4	18	18	15.0	1	325.0	3.60	12.80	99.00	99.00
7	4	18	19	15.0	1	309.0	3.60	11.40	99.00	99.00
7	4	18	20	15.0	1	299.0	3.10	10.50	99.00	99.00
7	4	18	21	15.0	1	279.0	1.00	9.90	99.00	99.00
7	4	18	22	15.0	1	99.0	1.00	9.50	99.00	99.00
7	4	18	23	15.0	1	123.0	3.60	8.10	99.00	99.00
7	4	18	24	15.0	1	140.0	3.60	7.30	99.00	99.00
7	4	19	1	15.0	1	185.0	2.10	6.90	99.00	99.00
7	4	19	2	15.0	1	279.0	1.50	6.30	99.00	99.00
7	4	19	3	15.0	1	309.0	2.10	5.80	99.00	99.00
7	4	19	4	15.0	1	340.0	1.00	5.40	99.00	99.00
7	4	19	5	15.0	1	0.0	0.00	5.00	99.00	99.00
7	4	19	6	15.0	1	0.0	0.00	4.60	99.00	99.00
7	4	19	7	15.0	1	326.0	1.50	6.00	99.00	99.00
7	4	19	8	15.0	1	335.0	1.00	7.60	99.00	99.00
7	4	19	9	15.0	1	0.0	0.00	9.10	99.00	99.00
7	4	19	10	15.0	1	0.0	0.00	10.80	99.00	99.00
7	4	19	11	15.0	1	287.0	0.50	12.40	99.00	99.00
7	4	19	12	15.0	1	288.0	1.00	13.50	99.00	99.00
7	4	19	13	15.0	1	301.0	1.00	14.40	99.00	99.00
7	4	19	14	15.0	1	316.0	1.00	15.10	99.00	99.00
7	4	19	15	15.0	1	336.0	1.50	15.60	99.00	99.00
7	4	19	16	15.0	1	358.0	1.50	15.60	99.00	99.00
7	4	19	17	15.0	1	20.0	1.50	15.40	99.00	99.00
7	4	19	18	15.0	1	36.0	2.10	14.90	99.00	99.00
7	4	19	19	15.0	1	353.0	0.50	14.30	99.00	99.00
7	4	19	20	15.0	1	258.0	3.60	13.40	99.00	99.00
7	4	19	21	15.0	1	265.0	4.10	10.60	99.00	99.00
7	4	19	22	15.0	1	264.0	3.10	9.40	99.00	99.00
7	4	19	23	15.0	1	250.0	2.60	8.90	99.00	99.00
7	4	19	24	15.0	1	239.0	2.10	8.40	99.00	99.00
7	4	20	1	15.0	1	209.0	1.50	7.90	99.00	99.00
7	4	20	2	15.0	1	148.0	2.10	7.60	99.00	99.00

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 7  4 20  3    15.0 1   139.0     3.60     7.10    99.00    99.00
 7  4 20  4    15.0 1   143.0     3.60     7.10    99.00    99.00
 7  4 20  5    15.0 1   145.0     3.60     7.10    99.00    99.00
 7  4 20  6    15.0 1   144.0     3.10     7.60    99.00    99.00
 7  4 20  7    15.0 1   149.0     3.10     7.60    99.00    99.00
 7  4 20  8    15.0 1   168.0     2.60     8.10    99.00    99.00
 7  4 20  9    15.0 1   173.0     2.60     9.50    99.00    99.00
 7  4 20 10    15.0 1   154.0     0.50    11.80    99.00    99.00
 7  4 20 11    15.0 1     0.0     0.00    13.40    99.00    99.00
 7  4 20 12    15.0 1    55.0     0.50    14.60    99.00    99.00
 7  4 20 13    15.0 1     0.0     0.00    16.00    99.00    99.00
 7  4 20 14    15.0 1     0.0     0.00    16.90    99.00    99.00
 7  4 20 15    15.0 1   213.0     0.50    17.50    99.00    99.00
 7  4 20 16    15.0 1   333.0     1.00    18.00    99.00    99.00
 7  4 20 17    15.0 1   332.0     1.50    17.60    99.00    99.00
 7  4 20 18    15.0 1   299.0     1.50    16.60    99.00    99.00
 7  4 20 19    15.0 1   263.0     2.10    15.80    99.00    99.00
 7  4 20 20    15.0 1   266.0     3.10    15.00    99.00    99.00
 7  4 20 21    15.0 1   262.0     4.10    13.00    99.00    99.00
 7  4 20 22    15.0 1   258.0     4.60    11.60    99.00    99.00
 7  4 20 23    15.0 1   261.0     4.10    10.60    99.00    99.00
 7  4 20 24    15.0 1   255.0     3.10    10.10    99.00    99.00
 7  4 21  1    15.0 1   200.0     2.10     9.60    99.00    99.00
 7  4 21  2    15.0 1   165.0     2.10     9.50    99.00    99.00
 7  4 21  3    15.0 1   193.0     2.10     8.90    99.00    99.00
 7  4 21  4    15.0 1   216.0     2.10     8.50    99.00    99.00
 7  4 21  5    15.0 1   248.0     2.60     8.10    99.00    99.00
 7  4 21  6    15.0 1   256.0     2.10     7.90    99.00    99.00
 7  4 21  7    15.0 1   287.0     1.50     9.30    99.00    99.00
 7  4 21  8    15.0 1   259.0     0.50    10.80    99.00    99.00
 7  4 21  9    15.0 1     0.0     0.00    12.10    99.00    99.00
 7  4 21 10    15.0 1     0.0     0.00    13.60    99.00    99.00
 7  4 21 11    15.0 1     0.0     0.00    15.10    99.00    99.00
 7  4 21 12    15.0 1     0.0     0.00    16.50    99.00    99.00
 7  4 21 13    15.0 1     0.0     0.00    17.60    99.00    99.00
 7  4 21 14    15.0 1   328.0     0.50    18.10    99.00    99.00
 7  4 21 15    15.0 1   343.0     1.00    18.60    99.00    99.00
 7  4 21 16    15.0 1   359.0     2.10    18.60    99.00    99.00
 7  4 21 17    15.0 1    24.0     1.50    18.50    99.00    99.00
 7  4 21 18    15.0 1    24.0     1.50    18.30    99.00    99.00
 7  4 21 19    15.0 1   303.0     2.10    17.60    99.00    99.00
 7  4 21 20    15.0 1   278.0     4.10    15.80    99.00    99.00
 7  4 21 21    15.0 1   269.0     4.10    14.00    99.00    99.00
 7  4 21 22    15.0 1   270.0     3.60    13.30    99.00    99.00
 7  4 21 23    15.0 1   269.0     3.10    12.90    99.00    99.00
 7  4 21 24    15.0 1   287.0     2.60    12.50    99.00    99.00
 7  4 22  1    15.0 1   310.0     2.10    12.10    99.00    99.00
 7  4 22  2    15.0 1   320.0     2.10    11.80    99.00    99.00
 7  4 22  3    15.0 1   326.0     1.00    11.40    99.00    99.00
 7  4 22  4    15.0 1     0.0     0.00    11.10    99.00    99.00
 7  4 22  5    15.0 1   120.0     1.00    11.10    99.00    99.00
 7  4 22  6    15.0 1   107.0     1.50    11.00    99.00    99.00
 7  4 22  7    15.0 1   125.0     1.50    11.00    99.00    99.00
 7  4 22  8    15.0 1   131.0     2.60    10.90    99.00    99.00
 7  4 22  9    15.0 1   136.0     3.10    11.10    99.00    99.00
 7  4 22 10    15.0 1   134.0     2.10    12.60    99.00    99.00
 7  4 22 11    15.0 1     0.0     0.00    15.10    99.00    99.00
 7  4 22 12    15.0 1    51.0     0.50    16.40    99.00    99.00
 7  4 22 13    15.0 1    55.0     0.50    17.10    99.00    99.00
 7  4 22 14    15.0 1     0.0     0.00    18.10    99.00    99.00
 7  4 22 15    15.0 1   340.0     0.50    18.50    99.00    99.00
 7  4 22 16    15.0 1     0.0     0.00    18.60    99.00    99.00
 7  4 22 17    15.0 1   349.0     2.10    18.60    99.00    99.00
 7  4 22 18    15.0 1   353.0     2.10    18.00    99.00    99.00
 7  4 22 19    15.0 1   309.0     1.50    17.40    99.00    99.00
 7  4 22 20    15.0 1   264.0     4.10    16.00    99.00    99.00
 7  4 22 21    15.0 1   276.0     5.10    14.00    99.00    99.00
 7  4 22 22    15.0 1   308.0     3.60    13.10    99.00    99.00
 7  4 22 23    15.0 1   314.0     3.10    12.80    99.00    99.00
 7  4 22 24    15.0 1   287.0     3.10    12.40    99.00    99.00
 7  4 23  1    15.0 1   276.0     3.10    11.90    99.00    99.00
 7  4 23  2    15.0 1   300.0     3.10    11.10    99.00    99.00
 7  4 23  3    15.0 1   310.0     3.10    10.40    99.00    99.00
 7  4 23  4    15.0 1   317.0     3.10    10.00    99.00    99.00
 7  4 23  5    15.0 1   310.0     2.60     9.50    99.00    99.00
 7  4 23  6    15.0 1   301.0     2.60     9.10    99.00    99.00
 7  4 23  7    15.0 1   330.0     3.10    10.60    99.00    99.00
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 7   4 23   8     15.0 1   345.0      2.60     12.10     99.00     99.00
 7   4 23   9     15.0 1   328.0      1.50     13.60     99.00     99.00
 7   4 23  10     15.0 1   321.0      1.00     15.00     99.00     99.00
 7   4 23  11     15.0 1   318.0      1.50     16.50     99.00     99.00
 7   4 23  12     15.0 1   320.0      1.50     17.80     99.00     99.00
 7   4 23  13     15.0 1   332.0      1.50     18.90     99.00     99.00
 7   4 23  14     15.0 1   337.0      2.10     19.90     99.00     99.00
 7   4 23  15     15.0 1   351.0      2.10     20.50     99.00     99.00
 7   4 23  16     15.0 1   359.0      2.60     20.80     99.00     99.00
 7   4 23  17     15.0 1     1.0      2.60     20.60     99.00     99.00
 7   4 23  18     15.0 1     9.0      1.50     20.40     99.00     99.00
 7   4 23  19     15.0 1    16.0      1.00     19.50     99.00     99.00
 7   4 23  20     15.0 1     0.0      0.00     18.30     99.00     99.00
 7   4 23  21     15.0 1     0.0      0.00     16.80     99.00     99.00
 7   4 23  22     15.0 1   210.0      0.50     15.40     99.00     99.00
 7   4 23  23     15.0 1   162.0      1.00     14.10     99.00     99.00
 7   4 23  24     15.0 1   120.0      2.10     13.10     99.00     99.00
 7   4 24   1     15.0 1    94.0      0.50     12.60     99.00     99.00
 7   4 24   2     15.0 1   342.0      0.50     12.40     99.00     99.00
 7   4 24   3     15.0 1   321.0      1.50     12.00     99.00     99.00
 7   4 24   4     15.0 1   316.0      2.10     11.40     99.00     99.00
 7   4 24   5     15.0 1   307.0      2.10     10.80     99.00     99.00
 7   4 24   6     15.0 1   311.0      1.50     10.40     99.00     99.00
 7   4 24   7     15.0 1   346.0      1.50     11.40     99.00     99.00
 7   4 24   8     15.0 1     1.0      0.50     13.30     99.00     99.00
 7   4 24   9     15.0 1     0.0      0.00     15.10     99.00     99.00
 7   4 24  10     15.0 1     0.0      0.00     17.10     99.00     99.00
 7   4 24  11     15.0 1     0.0      0.00     19.10     99.00     99.00
 7   4 24  12     15.0 1   313.0      0.50     20.80     99.00     99.00
 7   4 24  13     15.0 1   319.0      1.00     22.10     99.00     99.00
 7   4 24  14     15.0 1   332.0      1.00     22.90     99.00     99.00
 7   4 24  15     15.0 1   348.0      1.50     23.50     99.00     99.00
 7   4 24  16     15.0 1   360.0      2.10     23.80     99.00     99.00
 7   4 24  17     15.0 1    12.0      2.60     23.60     99.00     99.00
 7   4 24  18     15.0 1    22.0      2.10     23.10     99.00     99.00
 7   4 24  19     15.0 1    31.0      1.50     22.00     99.00     99.00
 7   4 24  20     15.0 1    39.0      0.50     20.60     99.00     99.00
 7   4 24  21     15.0 1     0.0      0.00     19.00     99.00     99.00
 7   4 24  22     15.0 1   190.0      0.50     17.40     99.00     99.00
 7   4 24  23     15.0 1   195.0      0.50     16.10     99.00     99.00
 7   4 24  24     15.0 1   260.0      0.50     15.40     99.00     99.00
 7   4 25   1     15.0 1   332.0      1.00     14.90     99.00     99.00
 7   4 25   2     15.0 1   338.0      2.10     14.40     99.00     99.00
 7   4 25   3     15.0 1   348.0      2.10     13.60     99.00     99.00
 7   4 25   4     15.0 1   326.0      1.50     13.10     99.00     99.00
 7   4 25   5     15.0 1   312.0      1.00     12.80     99.00     99.00
 7   4 25   6     15.0 1   314.0      1.00     12.50     99.00     99.00
 7   4 25   7     15.0 1     0.0      0.00     12.50     99.00     99.00
 7   4 25   8     15.0 1   350.0      1.00     14.10     99.00     99.00
 7   4 25   9     15.0 1     0.0      0.00     16.00     99.00     99.00
 7   4 25  10     15.0 1     0.0      0.00     17.60     99.00     99.00
 7   4 25  11     15.0 1     0.0      0.00     19.40     99.00     99.00
 7   4 25  12     15.0 1     0.0      0.00     21.00     99.00     99.00
 7   4 25  13     15.0 1   313.0      1.00     22.30     99.00     99.00
 7   4 25  14     15.0 1   335.0      1.50     23.30     99.00     99.00
 7   4 25  15     15.0 1   351.0      2.60     24.10     99.00     99.00
 7   4 25  16     15.0 1   352.0      5.10     25.00     99.00     99.00
 7   4 25  17     15.0 1   349.0      3.60     24.10     99.00     99.00
 7   4 25  18     15.0 1   354.0      4.10     22.80     99.00     99.00
 7   4 25  19     15.0 1   344.0      4.60     20.60     99.00     99.00
 7   4 25  20     15.0 1   330.0      4.60     19.00     99.00     99.00
 7   4 25  21     15.0 1   331.0      4.10     18.10     99.00     99.00
 7   4 25  22     15.0 1   316.0      4.10     17.30     99.00     99.00
 7   4 25  23     15.0 1   307.0      4.60     16.10     99.00     99.00
 7   4 25  24     15.0 1   314.0      3.60     15.00     99.00     99.00
 7   4 26   1     15.0 1   309.0      3.10     14.40     99.00     99.00
 7   4 26   2     15.0 1   293.0      2.60     14.00     99.00     99.00
 7   4 26   3     15.0 1   278.0      1.00     13.60     99.00     99.00
 7   4 26   4     15.0 1   162.0      0.50     13.30     99.00     99.00
 7   4 26   5     15.0 1     0.0      0.00     13.10     99.00     99.00
 7   4 26   6     15.0 1   272.0      0.50     12.80     99.00     99.00
 7   4 26   7     15.0 1   345.0      0.50     14.00     99.00     99.00
 7   4 26   8     15.0 1     0.0      0.00     15.40     99.00     99.00
 7   4 26   9     15.0 1     0.0      0.00     16.90     99.00     99.00
 7   4 26  10     15.0 1     0.0      0.00     18.60     99.00     99.00
 7   4 26  11     15.0 1     0.0      0.00     20.40     99.00     99.00
 7   4 26  12     15.0 1     0.0      0.00     21.90     99.00     99.00
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 7   4 26 13     15.0 1    312.0      0.50     23.10     99.00     99.00
 7   4 26 14     15.0 1    334.0      1.00     24.10     99.00     99.00
 7   4 26 15     15.0 1    340.0      1.50     24.80     99.00     99.00
 7   4 26 16     15.0 1    354.0      2.10     25.10     99.00     99.00
 7   4 26 17     15.0 1      0.0      0.00     25.10     99.00     99.00
 7   4 26 18     15.0 1     15.0      1.50     24.90     99.00     99.00
 7   4 26 19     15.0 1      6.0      1.50     23.90     99.00     99.00
 7   4 26 20     15.0 1      0.0      0.00     22.50     99.00     99.00
 7   4 26 21     15.0 1      0.0      0.00     20.90     99.00     99.00
 7   4 26 22     15.0 1    117.0      0.50     19.50     99.00     99.00
 7   4 26 23     15.0 1    107.0      0.50     18.30     99.00     99.00
 7   4 26 24     15.0 1    108.0      0.50     17.30     99.00     99.00
 7   4 27  1     15.0 1    109.0      0.50     16.60     99.00     99.00
 7   4 27  2     15.0 1    110.0      0.50     16.00     99.00     99.00
 7   4 27  3     15.0 1    269.0      0.50     15.60     99.00     99.00
 7   4 27  4     15.0 1    280.0      2.10     15.30     99.00     99.00
 7   4 27  5     15.0 1    287.0      3.10     14.80     99.00     99.00
 7   4 27  6     15.0 1    311.0      2.60     14.50     99.00     99.00
 7   4 27  7     15.0 1    339.0      2.10     16.00     99.00     99.00
 7   4 27  8     15.0 1    317.0      1.00     18.00     99.00     99.00
 7   4 27  9     15.0 1    295.0      0.50     20.30     99.00     99.00
 7   4 27 10     15.0 1    290.0      0.50     22.90     99.00     99.00
 7   4 27 11     15.0 1      0.0      0.00     25.00     99.00     99.00
 7   4 27 12     15.0 1      0.0      0.00     27.00     99.00     99.00
 7   4 27 13     15.0 1    319.0      0.50     28.60     99.00     99.00
 7   4 27 14     15.0 1    356.0      1.00     29.60     99.00     99.00
 7   4 27 15     15.0 1     10.0      2.10     30.10     99.00     99.00
 7   4 27 16     15.0 1      8.0      3.10     30.00     99.00     99.00
 7   4 27 17     15.0 1      0.0      0.00     28.80     99.00     99.00
 7   4 27 18     15.0 1      0.0      0.00     27.60     99.00     99.00
 7   4 27 19     15.0 1    346.0      3.10     26.60     99.00     99.00
 7   4 27 20     15.0 1    299.0      2.10     25.50     99.00     99.00
 7   4 27 21     15.0 1    266.0      3.10     24.40     99.00     99.00
 7   4 27 22     15.0 1    277.0      3.10     23.10     99.00     99.00
 7   4 27 23     15.0 1    278.0      2.10     22.10     99.00     99.00
 7   4 27 24     15.0 1    339.0      1.00     21.10     99.00     99.00
 7   4 28  1     15.0 1     42.0      1.00     20.30     99.00     99.00
 7   4 28  2     15.0 1    341.0      0.50     19.60     99.00     99.00
 7   4 28  3     15.0 1    290.0      1.50     19.10     99.00     99.00
 7   4 28  4     15.0 1    304.0      3.10     18.50     99.00     99.00
 7   4 28  5     15.0 1    325.0      3.10     17.60     99.00     99.00
 7   4 28  6     15.0 1    322.0      2.60     17.00     99.00     99.00
 7   4 28  7     15.0 1    327.0      2.10     17.10     99.00     99.00
 7   4 28  8     15.0 1    342.0      1.50     18.60     99.00     99.00
 7   4 28  9     15.0 1      0.0      0.00     21.00     99.00     99.00
 7   4 28 10     15.0 1      0.0      0.00     23.60     99.00     99.00
 7   4 28 11     15.0 1      0.0      0.00     25.60     99.00     99.00
 7   4 28 12     15.0 1      0.0      0.00     27.30     99.00     99.00
 7   4 28 13     15.0 1      0.0      0.00     28.60     99.00     99.00
 7   4 28 14     15.0 1    317.0      0.50     29.90     99.00     99.00
 7   4 28 15     15.0 1    325.0      1.00     30.50     99.00     99.00
 7   4 28 16     15.0 1    324.0      2.10     30.00     99.00     99.00
 7   4 28 17     15.0 1    329.0      3.60     28.60     99.00     99.00
 7   4 28 18     15.0 1    336.0      3.60     26.50     99.00     99.00
 7   4 28 19     15.0 1    345.0      3.60     25.40     99.00     99.00
 7   4 28 20     15.0 1    307.0      4.10     24.80     99.00     99.00
 7   4 28 21     15.0 1    280.0      3.60     23.00     99.00     99.00
 7   4 28 22     15.0 1    265.0      3.10     21.50     99.00     99.00
 7   4 28 23     15.0 1    261.0      2.60     20.80     99.00     99.00
 7   4 28 24     15.0 1    273.0      1.50     20.30     99.00     99.00
 7   4 29  1     15.0 1    280.0      1.50     19.80     99.00     99.00
 7   4 29  2     15.0 1    287.0      2.60     19.30     99.00     99.00
 7   4 29  3     15.0 1    310.0      3.10     18.80     99.00     99.00
 7   4 29  4     15.0 1    320.0      3.10     18.10     99.00     99.00
 7   4 29  5     15.0 1    329.0      2.60     17.80     99.00     99.00
 7   4 29  6     15.0 1    331.0      2.10     17.40     99.00     99.00
 7   4 29  7     15.0 1    349.0      2.10     17.60     99.00     99.00
 7   4 29  8     15.0 1    347.0      1.00     19.50     99.00     99.00
 7   4 29  9     15.0 1      0.0      0.00     21.60     99.00     99.00
 7   4 29 10     15.0 1      0.0      0.00     23.30     99.00     99.00
 7   4 29 11     15.0 1      0.0      0.00     24.80     99.00     99.00
 7   4 29 12     15.0 1      0.0      0.00     26.10     99.00     99.00
 7   4 29 13     15.0 1    300.0      0.50     27.60     99.00     99.00
 7   4 29 14     15.0 1    319.0      1.00     28.50     99.00     99.00
 7   4 29 15     15.0 1    350.0      2.60     28.80     99.00     99.00
 7   4 29 16     15.0 1      0.0      0.00     28.80     99.00     99.00
 7   4 29 17     15.0 1     12.0      3.10     28.10     99.00     99.00
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 7  4 29 18    15.0 1    15.0     3.60    27.10    99.00    99.00
 7  4 29 19    15.0 1     4.0     3.60    25.60    99.00    99.00
 7  4 29 20    15.0 1   321.0     3.60    24.80    99.00    99.00
 7  4 29 21    15.0 1   287.0     4.10    23.30    99.00    99.00
 7  4 29 22    15.0 1   287.0     3.60    21.40    99.00    99.00
 7  4 29 23    15.0 1   297.0     3.60    20.30    99.00    99.00
 7  4 29 24    15.0 1   330.0     3.60    19.10    99.00    99.00
 7  4 30  1    15.0 1   336.0     3.10    18.10    99.00    99.00
 7  4 30  2    15.0 1   339.0     2.60    17.40    99.00    99.00
 7  4 30  3    15.0 1   337.0     1.50    16.90    99.00    99.00
 7  4 30  4    15.0 1   338.0     0.50    16.30    99.00    99.00
 7  4 30  5    15.0 1     0.0     0.00    15.80    99.00    99.00
 7  4 30  6    15.0 1     0.0     0.00    15.40    99.00    99.00
 7  4 30  7    15.0 1   347.0     0.50    16.10    99.00    99.00
 7  4 30  8    15.0 1     0.0     0.00    17.60    99.00    99.00
 7  4 30  9    15.0 1     0.0     0.00    19.50    99.00    99.00
 7  4 30 10    15.0 1     0.0     0.00    21.50    99.00    99.00
 7  4 30 11    15.0 1     0.0     0.00    23.30    99.00    99.00
 7  4 30 12    15.0 1   288.0     0.50    25.00    99.00    99.00
 7  4 30 13    15.0 1     0.0     0.00    26.10    99.00    99.00
 7  4 30 14    15.0 1   307.0     0.50    27.00    99.00    99.00
 7  4 30 15    15.0 1   353.0     1.00    27.40    99.00    99.00
 7  4 30 16    15.0 1     0.0     0.00    27.10    99.00    99.00
 7  4 30 17    15.0 1     8.0     3.10    26.50    99.00    99.00
 7  4 30 18    15.0 1    22.0     3.10    25.40    99.00    99.00
 7  4 30 19    15.0 1    22.0     2.10    24.50    99.00    99.00
 7  4 30 20    15.0 1    22.0     0.50    23.60    99.00    99.00
 7  4 30 21    15.0 1     0.0     0.00    22.60    99.00    99.00
 7  4 30 22    15.0 1   285.0     0.50    21.90    99.00    99.00
 7  4 30 23    15.0 1   293.0     0.50    21.40    99.00    99.00
 7  4 30 24    15.0 1   299.0     2.10    21.00    99.00    99.00
 7  5  1  1    15.0 1   330.0     3.60    20.30    99.00    99.00
 7  5  1  2    15.0 1   352.0     4.10    18.80    99.00    99.00
 7  5  1  3    15.0 1   354.0     4.10    17.60    99.00    99.00
 7  5  1  4    15.0 1   345.0     3.10    16.90    99.00    99.00
 7  5  1  5    15.0 1   331.0     2.60    16.40    99.00    99.00
 7  5  1  6    15.0 1   315.0     2.10    16.10    99.00    99.00
 7  5  1  7    15.0 1   316.0     1.50    16.10    99.00    99.00
 7  5  1  8    15.0 1   341.0     1.50    17.50    99.00    99.00
 7  5  1  9    15.0 1     0.0     0.00    19.90    99.00    99.00
 7  5  1 10    15.0 1     0.0     0.00    21.60    99.00    99.00
 7  5  1 11    15.0 1     0.0     0.00    23.40    99.00    99.00
 7  5  1 12    15.0 1     0.0     0.00    24.60    99.00    99.00
 7  5  1 13    15.0 1   273.0     0.50    25.80    99.00    99.00
 7  5  1 14    15.0 1   352.0     0.50    26.60    99.00    99.00
 7  5  1 15    15.0 1    12.0     1.50    27.30    99.00    99.00
 7  5  1 16    15.0 1    10.0     2.60    27.50    99.00    99.00
 7  5  1 17    15.0 1     6.0     3.10    26.60    99.00    99.00
 7  5  1 18    15.0 1   351.0     3.60    25.30    99.00    99.00
 7  5  1 19    15.0 1   311.0     4.10    23.60    99.00    99.00
 7  5  1 20    15.0 1   290.0     4.60    20.90    99.00    99.00
 7  5  1 21    15.0 1   288.0     4.10    18.80    99.00    99.00
 7  5  1 22    15.0 1   300.0     3.60    17.50    99.00    99.00
 7  5  1 23    15.0 1   317.0     3.60    16.50    99.00    99.00
 7  5  1 24    15.0 1   330.0     3.10    15.80    99.00    99.00
 7  5  2  1    15.0 1   332.0     2.10    15.50    99.00    99.00
 7  5  2  2    15.0 1   325.0     0.50    15.30    99.00    99.00
 7  5  2  3    15.0 1     0.0     0.00    15.10    99.00    99.00
 7  5  2  4    15.0 1     0.0     0.00    14.90    99.00    99.00
 7  5  2  5    15.0 1     0.0     0.00    14.60    99.00    99.00
 7  5  2  6    15.0 1     0.0     0.00    14.40    99.00    99.00
 7  5  2  7    15.0 1    23.0     1.00    14.50    99.00    99.00
 7  5  2  8    15.0 1   356.0     0.50    16.00    99.00    99.00
 7  5  2  9    15.0 1     0.0     0.00    17.40    99.00    99.00
 7  5  2 10    15.0 1     0.0     0.00    18.80    99.00    99.00
 7  5  2 11    15.0 1   322.0     0.50    20.30    99.00    99.00
 7  5  2 12    15.0 1   336.0     1.00    21.60    99.00    99.00
 7  5  2 13    15.0 1   326.0     2.60    22.10    99.00    99.00
 7  5  2 14    15.0 1   342.0     3.10    22.50    99.00    99.00
 7  5  2 15    15.0 1   336.0     3.60    22.80    99.00    99.00
 7  5  2 16    15.0 1   320.0     4.10    22.90    99.00    99.00
 7  5  2 17    15.0 1   325.0     4.10    22.00    99.00    99.00
 7  5  2 18    15.0 1   321.0     3.10    20.90    99.00    99.00
 7  5  2 19    15.0 1   284.0     4.60    19.00    99.00    99.00
 7  5  2 20    15.0 1   268.0     5.70    16.10    99.00    99.00
 7  5  2 21    15.0 1   276.0     5.70    14.30    99.00    99.00
 7  5  2 22    15.0 1   286.0     4.10    13.30    99.00    99.00
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 7  5  2 23    15.0 1   294.0     3.60    12.50    99.00    99.00
 7  5  2 24    15.0 1   288.0     3.10    11.60    99.00    99.00
 7  5  3  1    15.0 1   301.0     3.10    11.10    99.00    99.00
 7  5  3  2    15.0 1   302.0     2.60    10.50    99.00    99.00
 7  5  3  3    15.0 1   301.0     2.60     9.90    99.00    99.00
 7  5  3  4    15.0 1   301.0     3.10     9.40    99.00    99.00
 7  5  3  5    15.0 1   298.0     2.60     9.00    99.00    99.00
 7  5  3  6    15.0 1   301.0     2.60     8.90    99.00    99.00
 7  5  3  7    15.0 1   327.0     5.10    10.40    99.00    99.00
 7  5  3  8    15.0 1   340.0     4.10    11.80    99.00    99.00
 7  5  3  9    15.0 1   341.0     3.10    13.30    99.00    99.00
 7  5  3 10    15.0 1   332.0     2.10    14.60    99.00    99.00
 7  5  3 11    15.0 1   333.0     2.10    16.10    99.00    99.00
 7  5  3 12    15.0 1   330.0     2.60    17.30    99.00    99.00
 7  5  3 13    15.0 1   326.0     3.10    18.30    99.00    99.00
 7  5  3 14    15.0 1   327.0     3.60    19.10    99.00    99.00
 7  5  3 15    15.0 1   344.0     4.60    19.50    99.00    99.00
 7  5  3 16    15.0 1   336.0     5.10    19.50    99.00    99.00
 7  5  3 17    15.0 1   348.0     5.10    19.10    99.00    99.00
 7  5  3 18    15.0 1     1.0     3.60    18.10    99.00    99.00
 7  5  3 19    15.0 1   346.0     3.60    16.60    99.00    99.00
 7  5  3 20    15.0 1   336.0     3.60    15.40    99.00    99.00
 7  5  3 21    15.0 1   298.0     3.60    14.10    99.00    99.00
 7  5  3 22    15.0 1   281.0     4.60    12.60    99.00    99.00
 7  5  3 23    15.0 1   286.0     4.60    11.50    99.00    99.00
 7  5  3 24    15.0 1   276.0     3.60    10.60    99.00    99.00
 7  5  4  1    15.0 1   277.0     2.60    10.30    99.00    99.00
 7  5  4  2    15.0 1   280.0     2.10    10.10    99.00    99.00
 7  5  4  3    15.0 1   267.0     1.50     9.80    99.00    99.00
 7  5  4  4    15.0 1   274.0     1.50     9.50    99.00    99.00
 7  5  4  5    15.0 1   282.0     1.00     9.10    99.00    99.00
 7  5  4  6    15.0 1   297.0     0.50     9.00    99.00    99.00
 7  5  4  7    15.0 1   336.0     1.50    10.90    99.00    99.00
 7  5  4  8    15.0 1   339.0     1.00    12.00    99.00    99.00
 7  5  4  9    15.0 1   329.0     1.50    12.30    99.00    99.00
 7  5  4 10    15.0 1   334.0     2.10    13.00    99.00    99.00
 7  5  4 11    15.0 1   354.0     2.60    14.30    99.00    99.00
 7  5  4 12    15.0 1   336.0     3.10    15.10    99.00    99.00
 7  5  4 13    15.0 1   328.0     4.60    15.30    99.00    99.00
 7  5  4 14    15.0 1   335.0     4.60    15.40    99.00    99.00
 7  5  4 15    15.0 1   331.0     5.10    15.60    99.00    99.00
 7  5  4 16    15.0 1   332.0     3.10    16.00    99.00    99.00
 7  5  4 17    15.0 1   351.0     3.60    16.80    99.00    99.00
 7  5  4 18    15.0 1     8.0     1.00    17.10    99.00    99.00
 7  5  4 19    15.0 1   138.0     2.10    16.30    99.00    99.00
 7  5  4 20    15.0 1   130.0     3.60    14.50    99.00    99.00
 7  5  4 21    15.0 1   127.0     4.60    13.00    99.00    99.00
 7  5  4 22    15.0 1   131.0     4.10    12.10    99.00    99.00
 7  5  4 23    15.0 1   128.0     3.60    11.50    99.00    99.00
 7  5  4 24    15.0 1   138.0     2.60    11.00    99.00    99.00
 7  5  5  1    15.0 1   157.0     1.50    10.60    99.00    99.00
 7  5  5  2    15.0 1   252.0     1.00    10.10    99.00    99.00
 7  5  5  3    15.0 1   285.0     2.10    10.00    99.00    99.00
 7  5  5  4    15.0 1   281.0     2.60     9.60    99.00    99.00
 7  5  5  5    15.0 1   278.0     3.10     9.30    99.00    99.00
 7  5  5  6    15.0 1   284.0     2.60     8.90    99.00    99.00
 7  5  5  7    15.0 1   343.0     4.10    10.90    99.00    99.00
 7  5  5  8    15.0 1   354.0     4.10    13.00    99.00    99.00
 7  5  5  9    15.0 1   353.0     3.60    14.60    99.00    99.00
 7  5  5 10    15.0 1   349.0     3.10    16.40    99.00    99.00
 7  5  5 11    15.0 1   353.0     3.60    17.90    99.00    99.00
 7  5  5 12    15.0 1   350.0     4.10    19.00    99.00    99.00
 7  5  5 13    15.0 1   343.0     4.60    19.80    99.00    99.00
 7  5  5 14    15.0 1   341.0     4.60    20.50    99.00    99.00
 7  5  5 15    15.0 1   345.0     4.60    21.30    99.00    99.00
 7  5  5 16    15.0 1   344.0     5.10    21.50    99.00    99.00
 7  5  5 17    15.0 1   340.0     4.10    21.30    99.00    99.00
 7  5  5 18    15.0 1   337.0     2.60    20.60    99.00    99.00
 7  5  5 19    15.0 1   353.0     2.10    20.00    99.00    99.00
 7  5  5 20    15.0 1     0.0     0.00    19.10    99.00    99.00
 7  5  5 21    15.0 1     0.0     0.00    18.60    99.00    99.00
 7  5  5 22    15.0 1   252.0     2.10    17.50    99.00    99.00
 7  5  5 23    15.0 1   254.0     2.10    15.40    99.00    99.00
 7  5  5 24    15.0 1   128.0     0.50    13.60    99.00    99.00
 7  5  6  1    15.0 1   255.0     1.50    12.80    99.00    99.00
 7  5  6  2    15.0 1   282.0     3.60    11.90    99.00    99.00
 7  5  6  3    15.0 1   297.0     3.10    11.30    99.00    99.00
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 7  5  6  4    15.0 1   303.0     3.10    10.80    99.00    99.00
 7  5  6  5    15.0 1   290.0     3.10    10.10    99.00    99.00
 7  5  6  6    15.0 1   278.0     2.60     9.80    99.00    99.00
 7  5  6  7    15.0 1   322.0     3.10    12.10    99.00    99.00
 7  5  6  8    15.0 1   315.0     1.00    14.60    99.00    99.00
 7  5  6  9    15.0 1   267.0     1.00    17.00    99.00    99.00
 7  5  6 10    15.0 1   272.0     0.50    18.80    99.00    99.00
 7  5  6 11    15.0 1     0.0     0.00    20.40    99.00    99.00
 7  5  6 12    15.0 1   279.0     0.50    21.80    99.00    99.00
 7  5  6 13    15.0 1     0.0     0.00    23.00    99.00    99.00
 7  5  6 14    15.0 1   320.0     0.50    23.90    99.00    99.00
 7  5  6 15    15.0 1   348.0     0.50    24.50    99.00    99.00
 7  5  6 16    15.0 1    13.0     1.00    24.90    99.00    99.00
 7  5  6 17    15.0 1    22.0     1.00    25.00    99.00    99.00
 7  5  6 18    15.0 1    31.0     1.50    24.60    99.00    99.00
 7  5  6 19    15.0 1    34.0     2.10    23.60    99.00    99.00
 7  5  6 20    15.0 1    33.0     1.50    22.10    99.00    99.00
 7  5  6 21    15.0 1    68.0     0.50    20.50    99.00    99.00
 7  5  6 22    15.0 1   141.0     1.00    18.60    99.00    99.00
 7  5  6 23    15.0 1   141.0     1.50    17.40    99.00    99.00
 7  5  6 24    15.0 1   128.0     2.10    16.60    99.00    99.00
 7  5  7  1    15.0 1   134.0     3.10    16.00    99.00    99.00
 7  5  7  2    15.0 1   158.0     2.60    15.80    99.00    99.00
 7  5  7  3    15.0 1   202.0     2.10    15.30    99.00    99.00
 7  5  7  4    15.0 1   251.0     1.50    14.80    99.00    99.00
 7  5  7  5    15.0 1   293.0     1.50    14.10    99.00    99.00
 7  5  7  6    15.0 1   337.0     1.00    13.40    99.00    99.00
 7  5  7  7    15.0 1    35.0     0.50    14.60    99.00    99.00
 7  5  7  8    15.0 1     0.0     0.00    18.60    99.00    99.00
 7  5  7  9    15.0 1     0.0     0.00    21.50    99.00    99.00
 7  5  7 10    15.0 1     0.0     0.00    23.90    99.00    99.00
 7  5  7 11    15.0 1     0.0     0.00    25.60    99.00    99.00
 7  5  7 12    15.0 1    86.0     0.50    27.10    99.00    99.00
 7  5  7 13    15.0 1     0.0     0.00    28.10    99.00    99.00
 7  5  7 14    15.0 1   304.0     0.50    29.00    99.00    99.00
 7  5  7 15    15.0 1   299.0     0.50    29.50    99.00    99.00
 7  5  7 16    15.0 1   346.0     0.50    29.80    99.00    99.00
 7  5  7 17    15.0 1    38.0     1.50    29.50    99.00    99.00
 7  5  7 18    15.0 1    49.0     3.10    28.40    99.00    99.00
 7  5  7 19    15.0 1    56.0     4.60    26.10    99.00    99.00
 7  5  7 20    15.0 1    69.0     4.60    24.00    99.00    99.00
 7  5  7 21    15.0 1   141.0     2.10    22.80    99.00    99.00
 7  5  7 22    15.0 1   238.0     4.60    20.60    99.00    99.00
 7  5  7 23    15.0 1   276.0     2.10    20.00    99.00    99.00
 7  5  7 24    15.0 1    43.0     1.00    19.10    99.00    99.00
 7  5  8  1    15.0 1   133.0     1.00    18.50    99.00    99.00
 7  5  8  2    15.0 1   178.0     1.00    18.10    99.00    99.00
 7  5  8  3    15.0 1   217.0     0.50    17.40    99.00    99.00
 7  5  8  4    15.0 1     0.0     0.00    16.60    99.00    99.00
 7  5  8  5    15.0 1    37.0     0.50    15.80    99.00    99.00
 7  5  8  6    15.0 1   356.0     1.00    15.10    99.00    99.00
 7  5  8  7    15.0 1   299.0     1.00    16.50    99.00    99.00
 7  5  8  8    15.0 1   296.0     1.50    19.80    99.00    99.00
 7  5  8  9    15.0 1   300.0     1.00    22.10    99.00    99.00
 7  5  8 10    15.0 1   314.0     0.50    24.90    99.00    99.00
 7  5  8 11    15.0 1     0.0     0.00    26.80    99.00    99.00
 7  5  8 12    15.0 1     0.0     0.00    28.30    99.00    99.00
 7  5  8 13    15.0 1     0.0     0.00    29.60    99.00    99.00
 7  5  8 14    15.0 1   269.0     0.50    30.50    99.00    99.00
 7  5  8 15    15.0 1   326.0     1.00    31.00    99.00    99.00
 7  5  8 16    15.0 1   346.0     2.10    31.00    99.00    99.00
 7  5  8 17    15.0 1     0.0     0.00    29.90    99.00    99.00
 7  5  8 18    15.0 1    12.0     3.10    28.90    99.00    99.00
 7  5  8 19    15.0 1     6.0     2.60    27.50    99.00    99.00
 7  5  8 20    15.0 1   269.0     3.10    26.00    99.00    99.00
 7  5  8 21    15.0 1   275.0     5.10    21.80    99.00    99.00
 7  5  8 22    15.0 1   272.0     4.10    19.80    99.00    99.00
 7  5  8 23    15.0 1   271.0     3.60    18.90    99.00    99.00
 7  5  8 24    15.0 1   272.0     3.60    18.10    99.00    99.00
 7  5  9  1    15.0 1   322.0     0.50    18.00    99.00    99.00
 7  5  9  2    15.0 1    75.0     1.00    17.80    99.00    99.00
 7  5  9  3    15.0 1   303.0     0.50    17.40    99.00    99.00
 7  5  9  4    15.0 1     0.0     0.00    16.50    99.00    99.00
 7  5  9  5    15.0 1   199.0     0.50    15.60    99.00    99.00
 7  5  9  6    15.0 1     0.0     0.00    15.00    99.00    99.00
 7  5  9  7    15.0 1     0.0     0.00    16.80    99.00    99.00
 7  5  9  8    15.0 1     0.0     0.00    19.10    99.00    99.00
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 7   5   9   9     15.0 1     0.0     0.00    21.60    99.00    99.00
 7   5   9  10     15.0 1     0.0     0.00    23.60    99.00    99.00
 7   5   9  11     15.0 1     0.0     0.00    25.60    99.00    99.00
 7   5   9  12     15.0 1     0.0     0.00    27.50    99.00    99.00
 7   5   9  13     15.0 1   333.0     0.50    29.00    99.00    99.00
 7   5   9  14     15.0 1   346.0     0.50    30.10    99.00    99.00
 7   5   9  15     15.0 1     0.0     0.00    30.90    99.00    99.00
 7   5   9  16     15.0 1    10.0     1.50    31.30    99.00    99.00
 7   5   9  17     15.0 1   318.0     1.50    30.90    99.00    99.00
 7   5   9  18     15.0 1   274.0     5.10    27.40    99.00    99.00
 7   5   9  19     15.0 1   268.0     5.10    23.00    99.00    99.00
 7   5   9  20     15.0 1   267.0     4.60    20.40    99.00    99.00
 7   5   9  21     15.0 1   273.0     3.60    18.60    99.00    99.00
 7   5   9  22     15.0 1   280.0     1.50    18.10    99.00    99.00
 7   5   9  23     15.0 1    59.0     2.60    17.80    99.00    99.00
 7   5   9  24     15.0 1    43.0     1.50    17.30    99.00    99.00
 7   5  10   1     15.0 1   271.0     1.50    16.50    99.00    99.00
 7   5  10   2     15.0 1   265.0     3.60    15.10    99.00    99.00
 7   5  10   3     15.0 1   266.0     3.10    13.60    99.00    99.00
 7   5  10   4     15.0 1   278.0     2.10    13.10    99.00    99.00
 7   5  10   5     15.0 1   286.0     1.50    13.00    99.00    99.00
 7   5  10   6     15.0 1   296.0     0.50    12.60    99.00    99.00
 7   5  10   7     15.0 1   360.0     0.50    14.50    99.00    99.00
 7   5  10   8     15.0 1     0.0     0.00    16.30    99.00    99.00
 7   5  10   9     15.0 1     0.0     0.00    18.00    99.00    99.00
 7   5  10  10     15.0 1     0.0     0.00    20.10    99.00    99.00
 7   5  10  11     15.0 1     0.0     0.00    21.90    99.00    99.00
 7   5  10  12     15.0 1   320.0     0.50    23.80    99.00    99.00
 7   5  10  13     15.0 1   328.0     1.00    25.40    99.00    99.00
 7   5  10  14     15.0 1   328.0     1.50    26.40    99.00    99.00
 7   5  10  15     15.0 1   342.0     2.10    27.00    99.00    99.00
 7   5  10  16     15.0 1   337.0     3.10    27.50    99.00    99.00
 7   5  10  17     15.0 1   347.0     3.10    27.10    99.00    99.00
 7   5  10  18     15.0 1    15.0     3.10    26.30    99.00    99.00
 7   5  10  19     15.0 1   346.0     3.10    25.40    99.00    99.00
 7   5  10  20     15.0 1   282.0     4.60    22.80    99.00    99.00
 7   5  10  21     15.0 1   273.0     4.60    18.60    99.00    99.00
 7   5  10  22     15.0 1   268.0     4.60    17.10    99.00    99.00
 7   5  10  23     15.0 1   273.0     4.10    16.10    99.00    99.00
 7   5  10  24     15.0 1   295.0     2.60    15.40    99.00    99.00
 7   5  11   1     15.0 1   317.0     1.50    15.00    99.00    99.00
 7   5  11   2     15.0 1   327.0     1.50    14.60    99.00    99.00
 7   5  11   3     15.0 1   306.0     1.00    14.10    99.00    99.00
 7   5  11   4     15.0 1   315.0     0.50    13.80    99.00    99.00
 7   5  11   5     15.0 1   342.0     0.50    13.40    99.00    99.00
 7   5  11   6     15.0 1   348.0     0.50    13.10    99.00    99.00
 7   5  11   7     15.0 1   337.0     1.50    14.60    99.00    99.00
 7   5  11   8     15.0 1     0.0     0.00    16.40    99.00    99.00
 7   5  11   9     15.0 1     0.0     0.00    18.10    99.00    99.00
 7   5  11  10     15.0 1     0.0     0.00    19.90    99.00    99.00
 7   5  11  11     15.0 1     0.0     0.00    21.60    99.00    99.00
 7   5  11  12     15.0 1   333.0     0.50    23.40    99.00    99.00
 7   5  11  13     15.0 1   333.0     0.50    25.00    99.00    99.00
 7   5  11  14     15.0 1   337.0     1.00    26.10    99.00    99.00
 7   5  11  15     15.0 1   345.0     1.50    26.80    99.00    99.00
 7   5  11  16     15.0 1   352.0     2.10    27.10    99.00    99.00
 7   5  11  17     15.0 1   346.0     2.60    27.10    99.00    99.00
 7   5  11  18     15.0 1   322.0     2.60    26.40    99.00    99.00
 7   5  11  19     15.0 1   285.0     5.10    23.30    99.00    99.00
 7   5  11  20     15.0 1   284.0     5.70    19.30    99.00    99.00
 7   5  11  21     15.0 1   266.0     5.70    17.10    99.00    99.00
 7   5  11  22     15.0 1   284.0     5.10    15.80    99.00    99.00
 7   5  11  23     15.0 1   292.0     3.60    14.80    99.00    99.00
 7   5  11  24     15.0 1   298.0     2.60    14.30    99.00    99.00
 7   5  12   1     15.0 1   306.0     2.10    13.90    99.00    99.00
 7   5  12   2     15.0 1   289.0     2.10    13.50    99.00    99.00
 7   5  12   3     15.0 1   272.0     2.10    13.10    99.00    99.00
 7   5  12   4     15.0 1   262.0     2.10    12.80    99.00    99.00
 7   5  12   5     15.0 1   259.0     1.50    12.40    99.00    99.00
 7   5  12   6     15.0 1   276.0     0.50    12.10    99.00    99.00
 7   5  12   7     15.0 1   349.0     1.00    13.90    99.00    99.00
 7   5  12   8     15.0 1   348.0     0.50    14.90    99.00    99.00
 7   5  12   9     15.0 1   330.0     0.50    16.30    99.00    99.00
 7   5  12  10     15.0 1   335.0     0.50    18.00    99.00    99.00
 7   5  12  11     15.0 1   322.0     1.00    19.60    99.00    99.00
 7   5  12  12     15.0 1   332.0     1.00    21.00    99.00    99.00
 7   5  12  13     15.0 1   335.0     1.50    22.10    99.00    99.00
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 7   5 12 14    15.0 1   346.0     2.10    23.00    99.00    99.00
 7   5 12 15    15.0 1   354.0     2.60    23.60    99.00    99.00
 7   5 12 16    15.0 1     5.0     3.60    23.60    99.00    99.00
 7   5 12 17    15.0 1     3.0     4.60    23.10    99.00    99.00
 7   5 12 18    15.0 1   357.0     3.60    22.00    99.00    99.00
 7   5 12 19    15.0 1   355.0     4.10    19.90    99.00    99.00
 7   5 12 20    15.0 1   352.0     4.10    18.10    99.00    99.00
 7   5 12 21    15.0 1   339.0     3.60    16.90    99.00    99.00
 7   5 12 22    15.0 1   342.0     3.10    16.30    99.00    99.00
 7   5 12 23    15.0 1   324.0     2.60    15.90    99.00    99.00
 7   5 12 24    15.0 1   307.0     2.60    15.10    99.00    99.00
 7   5 13  1    15.0 1   318.0     2.60    14.50    99.00    99.00
 7   5 13  2    15.0 1   323.0     2.10    13.90    99.00    99.00
 7   5 13  3    15.0 1   310.0     1.50    13.40    99.00    99.00
 7   5 13  4    15.0 1   316.0     0.50    12.90    99.00    99.00
 7   5 13  5    15.0 1    28.0     0.50    12.50    99.00    99.00
 7   5 13  6    15.0 1     0.0     0.00    12.10    99.00    99.00
 7   5 13  7    15.0 1     0.0     0.00    13.60    99.00    99.00
 7   5 13  8    15.0 1     0.0     0.00    15.10    99.00    99.00
 7   5 13  9    15.0 1     0.0     0.00    16.60    99.00    99.00
 7   5 13 10    15.0 1     0.0     0.00    18.30    99.00    99.00
 7   5 13 11    15.0 1     0.0     0.00    19.80    99.00    99.00
 7   5 13 12    15.0 1   296.0     0.50    21.10    99.00    99.00
 7   5 13 13    15.0 1   324.0     1.00    22.50    99.00    99.00
 7   5 13 14    15.0 1   339.0     1.50    23.60    99.00    99.00
 7   5 13 15    15.0 1   355.0     2.60    24.30    99.00    99.00
 7   5 13 16    15.0 1   352.0     3.60    24.50    99.00    99.00
 7   5 13 17    15.0 1     2.0     3.60    24.30    99.00    99.00
 7   5 13 18    15.0 1     2.0     2.60    23.60    99.00    99.00
 7   5 13 19    15.0 1   338.0     2.60    23.00    99.00    99.00
 7   5 13 20    15.0 1   321.0     1.50    21.90    99.00    99.00
 7   5 13 21    15.0 1   279.0     1.00    20.60    99.00    99.00
 7   5 13 22    15.0 1   242.0     1.00    19.30    99.00    99.00
 7   5 13 23    15.0 1   267.0     1.50    17.90    99.00    99.00
 7   5 13 24    15.0 1   307.0     1.50    16.80    99.00    99.00
 7   5 14  1    15.0 1   318.0     1.00    16.10    99.00    99.00
 7   5 14  2    15.0 1   335.0     0.50    15.60    99.00    99.00
 7   5 14  3    15.0 1   324.0     0.50    15.10    99.00    99.00
 7   5 14  4    15.0 1   318.0     0.50    14.60    99.00    99.00
 7   5 14  5    15.0 1   341.0     0.50    14.10    99.00    99.00
 7   5 14  6    15.0 1   340.0     0.50    13.90    99.00    99.00
 7   5 14  7    15.0 1   352.0     0.50    15.50    99.00    99.00
 7   5 14  8    15.0 1     0.0     0.00    17.30    99.00    99.00
 7   5 14  9    15.0 1     0.0     0.00    18.90    99.00    99.00
 7   5 14 10    15.0 1     0.0     0.00    20.60    99.00    99.00
 7   5 14 11    15.0 1     0.0     0.00    22.10    99.00    99.00
 7   5 14 12    15.0 1     0.0     0.00    23.90    99.00    99.00
 7   5 14 13    15.0 1   322.0     0.50    25.40    99.00    99.00
 7   5 14 14    15.0 1   340.0     1.50    26.50    99.00    99.00
 7   5 14 15    15.0 1   351.0     2.10    27.10    99.00    99.00
 7   5 14 16    15.0 1     1.0     2.60    27.40    99.00    99.00
 7   5 14 17    15.0 1    14.0     2.60    27.10    99.00    99.00
 7   5 14 18    15.0 1    13.0     1.50    26.80    99.00    99.00
 7   5 14 19    15.0 1   348.0     1.00    25.80    99.00    99.00
 7   5 14 20    15.0 1   275.0     0.50    24.10    99.00    99.00
 7   5 14 21    15.0 1   260.0     2.10    22.50    99.00    99.00
 7   5 14 22    15.0 1   275.0     4.10    19.60    99.00    99.00
 7   5 14 23    15.0 1   263.0     3.10    18.30    99.00    99.00
 7   5 14 24    15.0 1   264.0     2.10    17.80    99.00    99.00
 7   5 15  1    15.0 1   290.0     1.50    17.40    99.00    99.00
 7   5 15  2    15.0 1   311.0     2.10    16.80    99.00    99.00
 7   5 15  3    15.0 1   325.0     2.10    16.10    99.00    99.00
 7   5 15  4    15.0 1   321.0     1.50    15.30    99.00    99.00
 7   5 15  5    15.0 1   330.0     1.50    14.60    99.00    99.00
 7   5 15  6    15.0 1   352.0     1.00    14.40    99.00    99.00
 7   5 15  7    15.0 1   351.0     2.10    15.90    99.00    99.00
 7   5 15  8    15.0 1   335.0     0.50    17.60    99.00    99.00
 7   5 15  9    15.0 1   301.0     0.50    19.60    99.00    99.00
 7   5 15 10    15.0 1     0.0     0.00    21.60    99.00    99.00
 7   5 15 11    15.0 1     0.0     0.00    24.00    99.00    99.00
 7   5 15 12    15.0 1     0.0     0.00    25.80    99.00    99.00
 7   5 15 13    15.0 1     0.0     0.00    27.30    99.00    99.00
 7   5 15 14    15.0 1     2.0     1.00    28.30    99.00    99.00
 7   5 15 15    15.0 1    12.0     1.50    28.60    99.00    99.00
 7   5 15 16    15.0 1    23.0     3.10    29.10    99.00    99.00
 7   5 15 17    15.0 1    18.0     3.10    28.50    99.00    99.00
 7   5 15 18    15.0 1     9.0     2.60    27.80    99.00    99.00
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 7   5 15 19     15.0 1   315.0     2.60    27.10    99.00    99.00
 7   5 15 20     15.0 1   257.0     5.70    22.80    99.00    99.00
 7   5 15 21     15.0 1   273.0     5.70    19.80    99.00    99.00
 7   5 15 22     15.0 1   269.0     4.60    18.60    99.00    99.00
 7   5 15 23     15.0 1   266.0     3.60    17.90    99.00    99.00
 7   5 15 24     15.0 1   292.0     1.50    17.60    99.00    99.00
 7   5 16  1     15.0 1     0.0     0.00    17.40    99.00    99.00
 7   5 16  2     15.0 1    54.0     0.50    17.10    99.00    99.00
 7   5 16  3     15.0 1     0.0     0.00    16.60    99.00    99.00
 7   5 16  4     15.0 1   327.0     0.50    16.10    99.00    99.00
 7   5 16  5     15.0 1   351.0     0.50    15.60    99.00    99.00
 7   5 16  6     15.0 1    28.0     0.50    15.30    99.00    99.00
 7   5 16  7     15.0 1     6.0     1.50    16.40    99.00    99.00
 7   5 16  8     15.0 1   327.0     0.50    17.60    99.00    99.00
 7   5 16  9     15.0 1     0.0     0.00    19.10    99.00    99.00
 7   5 16 10     15.0 1     0.0     0.00    20.90    99.00    99.00
 7   5 16 11     15.0 1     0.0     0.00    22.60    99.00    99.00
 7   5 16 12     15.0 1   334.0     0.50    24.30    99.00    99.00
 7   5 16 13     15.0 1   329.0     1.50    25.80    99.00    99.00
 7   5 16 14     15.0 1   336.0     2.10    26.80    99.00    99.00
 7   5 16 15     15.0 1   347.0     2.60    27.40    99.00    99.00
 7   5 16 16     15.0 1   358.0     3.60    27.50    99.00    99.00
 7   5 16 17     15.0 1     2.0     3.60    27.30    99.00    99.00
 7   5 16 18     15.0 1   347.0     2.60    26.80    99.00    99.00
 7   5 16 19     15.0 1   347.0     3.60    25.80    99.00    99.00
 7   5 16 20     15.0 1   339.0     4.10    23.60    99.00    99.00
 7   5 16 21     15.0 1   336.0     4.10    21.90    99.00    99.00
 7   5 16 22     15.0 1   345.0     4.10    20.60    99.00    99.00
 7   5 16 23     15.0 1   335.0     4.10    19.40    99.00    99.00
 7   5 16 24     15.0 1   331.0     3.60    18.10    99.00    99.00
 7   5 17  1     15.0 1   335.0     3.10    17.40    99.00    99.00
 7   5 17  2     15.0 1   339.0     2.60    16.80    99.00    99.00
 7   5 17  3     15.0 1   350.0     2.10    16.30    99.00    99.00
 7   5 17  4     15.0 1    11.0     1.00    15.80    99.00    99.00
 7   5 17  5     15.0 1    16.0     0.50    15.30    99.00    99.00
 7   5 17  6     15.0 1     0.0     0.00    15.00    99.00    99.00
 7   5 17  7     15.0 1     0.0     0.00    15.90    99.00    99.00
 7   5 17  8     15.0 1     0.0     0.00    17.00    99.00    99.00
 7   5 17  9     15.0 1     0.0     0.00    18.50    99.00    99.00
 7   5 17 10     15.0 1     0.0     0.00    20.30    99.00    99.00
 7   5 17 11     15.0 1     0.0     0.00    22.10    99.00    99.00
 7   5 17 12     15.0 1     0.0     0.00    23.80    99.00    99.00
 7   5 17 13     15.0 1     0.0     0.00    24.90    99.00    99.00
 7   5 17 14     15.0 1   329.0     0.50    25.90    99.00    99.00
 7   5 17 15     15.0 1   353.0     1.50    26.60    99.00    99.00
 7   5 17 16     15.0 1     0.0     0.00    26.90    99.00    99.00
 7   5 17 17     15.0 1     8.0     3.10    26.90    99.00    99.00
 7   5 17 18     15.0 1    14.0     2.60    26.40    99.00    99.00
 7   5 17 19     15.0 1     0.0     0.00    25.50    99.00    99.00
 7   5 17 20     15.0 1   347.0     3.60    24.30    99.00    99.00
 7   5 17 21     15.0 1   305.0     3.60    23.00    99.00    99.00
 7   5 17 22     15.0 1   284.0     4.60    20.10    99.00    99.00
 7   5 17 23     15.0 1   287.0     3.60    18.60    99.00    99.00
 7   5 17 24     15.0 1   321.0     3.10    18.10    99.00    99.00
 7   5 18  1     15.0 1   346.0     3.10    17.50    99.00    99.00
 7   5 18  2     15.0 1    13.0     3.10    16.60    99.00    99.00
 7   5 18  3     15.0 1    24.0     2.10    16.00    99.00    99.00
 7   5 18  4     15.0 1    22.0     1.50    15.40    99.00    99.00
 7   5 18  5     15.0 1     7.0     1.00    14.60    99.00    99.00
 7   5 18  6     15.0 1    16.0     1.00    14.40    99.00    99.00
 7   5 18  7     15.0 1    13.0     1.50    15.50    99.00    99.00
 7   5 18  8     15.0 1     0.0     0.00    17.30    99.00    99.00
 7   5 18  9     15.0 1     0.0     0.00    19.10    99.00    99.00
 7   5 18 10     15.0 1     0.0     0.00    21.00    99.00    99.00
 7   5 18 11     15.0 1     0.0     0.00    22.90    99.00    99.00
 7   5 18 12     15.0 1     0.0     0.00    24.40    99.00    99.00
 7   5 18 13     15.0 1     0.0     0.00    25.60    99.00    99.00
 7   5 18 14     15.0 1   352.0     1.00    26.60    99.00    99.00
 7   5 18 15     15.0 1     5.0     2.10    27.30    99.00    99.00
 7   5 18 16     15.0 1     0.0     0.00    27.40    99.00    99.00
 7   5 18 17     15.0 1     0.0     0.00    27.00    99.00    99.00
 7   5 18 18     15.0 1   357.0     3.10    26.30    99.00    99.00
 7   5 18 19     15.0 1   351.0     4.10    25.00    99.00    99.00
 7   5 18 20     15.0 1   333.0     4.10    23.00    99.00    99.00
 7   5 18 21     15.0 1   341.0     4.10    21.30    99.00    99.00
 7   5 18 22     15.0 1   336.0     4.10    20.00    99.00    99.00
 7   5 18 23     15.0 1   326.0     4.10    18.60    99.00    99.00
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 7   5 18 24     15.0 1   334.0      3.60     17.50     99.00     99.00
 7   5 19  1     15.0 1   339.0      3.10     16.60     99.00     99.00
 7   5 19  2     15.0 1   339.0      2.10     16.10     99.00     99.00
 7   5 19  3     15.0 1   344.0      1.50     15.50     99.00     99.00
 7   5 19  4     15.0 1   341.0      0.50     15.00     99.00     99.00
 7   5 19  5     15.0 1     0.0      0.00     14.40     99.00     99.00
 7   5 19  6     15.0 1     0.0      0.00     14.10     99.00     99.00
 7   5 19  7     15.0 1     3.0      0.50     15.30     99.00     99.00
 7   5 19  8     15.0 1     0.0      0.00     16.60     99.00     99.00
 7   5 19  9     15.0 1     0.0      0.00     18.40     99.00     99.00
 7   5 19 10     15.0 1     0.0      0.00     20.10     99.00     99.00
 7   5 19 11     15.0 1     0.0      0.00     22.10     99.00     99.00
 7   5 19 12     15.0 1   307.0      0.50     23.50     99.00     99.00
 7   5 19 13     15.0 1   318.0      1.00     24.60     99.00     99.00
 7   5 19 14     15.0 1   341.0      2.10     25.60     99.00     99.00
 7   5 19 15     15.0 1   348.0      2.60     26.10     99.00     99.00
 7   5 19 16     15.0 1     4.0      3.60     26.30     99.00     99.00
 7   5 19 17     15.0 1   358.0      3.60     26.10     99.00     99.00
 7   5 19 18     15.0 1   352.0      2.60     25.50     99.00     99.00
 7   5 19 19     15.0 1   345.0      4.10     24.30     99.00     99.00
 7   5 19 20     15.0 1   330.0      4.10     22.10     99.00     99.00
 7   5 19 21     15.0 1   332.0      3.60     20.90     99.00     99.00
 7   5 19 22     15.0 1   345.0      3.60     19.80     99.00     99.00
 7   5 19 23     15.0 1   328.0      4.10     18.60     99.00     99.00
 7   5 19 24     15.0 1   335.0      3.60     17.50     99.00     99.00
 7   5 20  1     15.0 1   344.0      2.60     16.60     99.00     99.00
 7   5 20  2     15.0 1   345.0      2.10     16.30     99.00     99.00
 7   5 20  3     15.0 1   339.0      1.50     15.60     99.00     99.00
 7   5 20  4     15.0 1   337.0      0.50     15.10     99.00     99.00
 7   5 20  5     15.0 1     0.0      0.00     14.60     99.00     99.00
 7   5 20  6     15.0 1     0.0      0.00     14.50     99.00     99.00
 7   5 20  7     15.0 1   357.0      0.50     16.00     99.00     99.00
 7   5 20  8     15.0 1     0.0      0.00     17.50     99.00     99.00
 7   5 20  9     15.0 1     0.0      0.00     18.90     99.00     99.00
 7   5 20 10     15.0 1   291.0      0.50     20.60     99.00     99.00
 7   5 20 11     15.0 1   304.0      1.00     22.00     99.00     99.00
 7   5 20 12     15.0 1   321.0      1.50     23.30     99.00     99.00
 7   5 20 13     15.0 1   329.0      2.60     24.40     99.00     99.00
 7   5 20 14     15.0 1   337.0      3.60     25.30     99.00     99.00
 7   5 20 15     15.0 1   350.0      4.60     25.50     99.00     99.00
 7   5 20 16     15.0 1   349.0      5.70     25.60     99.00     99.00
 7   5 20 17     15.0 1   350.0      4.60     24.90     99.00     99.00
 7   5 20 18     15.0 1   345.0      3.60     24.00     99.00     99.00
 7   5 20 19     15.0 1   344.0      4.10     22.60     99.00     99.00
 7   5 20 20     15.0 1   326.0      4.10     20.80     99.00     99.00
 7   5 20 21     15.0 1   339.0      4.10     19.50     99.00     99.00
 7   5 20 22     15.0 1   329.0      3.60     18.60     99.00     99.00
 7   5 20 23     15.0 1   318.0      3.60     17.80     99.00     99.00
 7   5 20 24     15.0 1   306.0      3.10     16.90     99.00     99.00
 7   5 21  1     15.0 1   310.0      2.60     16.40     99.00     99.00
 7   5 21  2     15.0 1   302.0      1.50     15.90     99.00     99.00
 7   5 21  3     15.0 1   296.0      0.50     15.50     99.00     99.00
 7   5 21  4     15.0 1     0.0      0.00     15.10     99.00     99.00
 7   5 21  5     15.0 1     0.0      0.00     14.60     99.00     99.00
 7   5 21  6     15.0 1     0.0      0.00     14.40     99.00     99.00
 7   5 21  7     15.0 1   360.0      1.50     16.00     99.00     99.00
 7   5 21  8     15.0 1   354.0      0.50     17.10     99.00     99.00
 7   5 21  9     15.0 1     0.0      0.00     18.60     99.00     99.00
 7   5 21 10     15.0 1   313.0      0.50     20.10     99.00     99.00
 7   5 21 11     15.0 1   308.0      1.50     21.50     99.00     99.00
 7   5 21 12     15.0 1   324.0      2.10     23.00     99.00     99.00
 7   5 21 13     15.0 1   332.0      3.10     24.10     99.00     99.00
 7   5 21 14     15.0 1   337.0      4.10     25.00     99.00     99.00
 7   5 21 15     15.0 1   345.0      5.10     25.40     99.00     99.00
 7   5 21 16     15.0 1   343.0      5.70     25.30     99.00     99.00
 7   5 21 17     15.0 1   343.0      4.10     25.00     99.00     99.00
 7   5 21 18     15.0 1   326.0      3.10     24.10     99.00     99.00
 7   5 21 19     15.0 1   319.0      3.60     22.90     99.00     99.00
 7   5 21 20     15.0 1   307.0      3.60     21.60     99.00     99.00
 7   5 21 21     15.0 1   301.0      3.60     20.60     99.00     99.00
 7   5 21 22     15.0 1   288.0      3.10     19.40     99.00     99.00
 7   5 21 23     15.0 1   288.0      2.10     18.40     99.00     99.00
 7   5 21 24     15.0 1   283.0      1.00     17.60     99.00     99.00
 7   5 22  1     15.0 1   263.0      1.00     16.90     99.00     99.00
 7   5 22  2     15.0 1   252.0      1.50     16.30     99.00     99.00
 7   5 22  3     15.0 1   252.0      2.60     15.60     99.00     99.00
 7   5 22  4     15.0 1   260.0      3.60     15.10     99.00     99.00
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 7  5 22  5    15.0 1   278.0     3.60    14.10    99.00    99.00
 7  5 22  6    15.0 1   287.0     2.60    13.10    99.00    99.00
 7  5 22  7    15.0 1   341.0     3.10    15.10    99.00    99.00
 7  5 22  8    15.0 1   344.0     1.50    17.10    99.00    99.00
 7  5 22  9    15.0 1   326.0     1.00    18.90    99.00    99.00
 7  5 22 10    15.0 1   318.0     1.50    20.50    99.00    99.00
 7  5 22 11    15.0 1   316.0     1.00    22.00    99.00    99.00
 7  5 22 12    15.0 1   325.0     1.50    23.40    99.00    99.00
 7  5 22 13    15.0 1   328.0     2.10    24.60    99.00    99.00
 7  5 22 14    15.0 1   342.0     2.60    25.50    99.00    99.00
 7  5 22 15    15.0 1   338.0     3.60    26.00    99.00    99.00
 7  5 22 16    15.0 1   346.0     4.10    26.10    99.00    99.00
 7  5 22 17    15.0 1   354.0     3.60    25.50    99.00    99.00
 7  5 22 18    15.0 1   346.0     3.10    24.50    99.00    99.00
 7  5 22 19    15.0 1   336.0     3.60    23.50    99.00    99.00
 7  5 22 20    15.0 1   335.0     4.10    22.00    99.00    99.00
 7  5 22 21    15.0 1   321.0     3.60    20.60    99.00    99.00
 7  5 22 22    15.0 1   314.0     3.60    19.50    99.00    99.00
 7  5 22 23    15.0 1   300.0     2.60    18.10    99.00    99.00
 7  5 22 24    15.0 1   314.0     1.00    17.10    99.00    99.00
 7  5 23  1    15.0 1   305.0     0.50    16.40    99.00    99.00
 7  5 23  2    15.0 1   271.0     1.00    15.60    99.00    99.00
 7  5 23  3    15.0 1   272.0     1.50    15.10    99.00    99.00
 7  5 23  4    15.0 1   254.0     1.50    14.60    99.00    99.00
 7  5 23  5    15.0 1   241.0     2.60    14.10    99.00    99.00
 7  5 23  6    15.0 1   239.0     3.10    14.00    99.00    99.00
 7  5 23  7    15.0 1   285.0     2.60    15.90    99.00    99.00
 7  5 23  8    15.0 1   270.0     1.50    17.60    99.00    99.00
 7  5 23  9    15.0 1   258.0     2.10    20.00    99.00    99.00
 7  5 23 10    15.0 1   264.0     1.50    21.90    99.00    99.00
 7  5 23 11    15.0 1   285.0     0.50    23.60    99.00    99.00
 7  5 23 12    15.0 1     0.0     0.00    25.10    99.00    99.00
 7  5 23 13    15.0 1     0.0     0.00    26.40    99.00    99.00
 7  5 23 14    15.0 1     0.0     0.00    27.30    99.00    99.00
 7  5 23 15    15.0 1     0.0     0.00    28.00    99.00    99.00
 7  5 23 16    15.0 1    10.0     1.00    28.40    99.00    99.00
 7  5 23 17    15.0 1    22.0     2.10    28.10    99.00    99.00
 7  5 23 18    15.0 1    19.0     3.10    26.90    99.00    99.00
 7  5 23 19    15.0 1    32.0     3.60    25.60    99.00    99.00
 7  5 23 20    15.0 1     4.0     2.10    24.40    99.00    99.00
 7  5 23 21    15.0 1   274.0     5.10    21.40    99.00    99.00
 7  5 23 22    15.0 1   269.0     4.10    18.60    99.00    99.00
 7  5 23 23    15.0 1   281.0     3.60    17.80    99.00    99.00
 7  5 23 24    15.0 1   304.0     2.60    17.50    99.00    99.00
 7  5 24  1    15.0 1    26.0     0.50    17.60    99.00    99.00
 7  5 24  2    15.0 1     0.0     0.00    17.50    99.00    99.00
 7  5 24  3    15.0 1   181.0     1.00    16.60    99.00    99.00
 7  5 24  4    15.0 1   214.0     2.10    15.90    99.00    99.00
 7  5 24  5    15.0 1   231.0     2.60    15.50    99.00    99.00
 7  5 24  6    15.0 1   257.0     3.10    15.10    99.00    99.00
 7  5 24  7    15.0 1   305.0     2.10    16.60    99.00    99.00
 7  5 24  8    15.0 1   291.0     1.00    18.60    99.00    99.00
 7  5 24  9    15.0 1   268.0     0.50    21.10    99.00    99.00
 7  5 24 10    15.0 1     0.0     0.00    23.50    99.00    99.00
 7  5 24 11    15.0 1     0.0     0.00    25.60    99.00    99.00
 7  5 24 12    15.0 1     0.0     0.00    27.10    99.00    99.00
 7  5 24 13    15.0 1     0.0     0.00    28.40    99.00    99.00
 7  5 24 14    15.0 1     0.0     0.00    29.10    99.00    99.00
 7  5 24 15    15.0 1    14.0     1.00    29.60    99.00    99.00
 7  5 24 16    15.0 1    22.0     2.10    29.90    99.00    99.00
 7  5 24 17    15.0 1    29.0     2.60    29.30    99.00    99.00
 7  5 24 18    15.0 1    29.0     2.60    28.40    99.00    99.00
 7  5 24 19    15.0 1    14.0     2.10    27.50    99.00    99.00
 7  5 24 20    15.0 1   268.0     5.10    25.10    99.00    99.00
 7  5 24 21    15.0 1   270.0     5.10    20.60    99.00    99.00
 7  5 24 22    15.0 1   272.0     4.10    19.10    99.00    99.00
 7  5 24 23    15.0 1   273.0     3.60    18.30    99.00    99.00
 7  5 24 24    15.0 1   286.0     2.60    17.60    99.00    99.00
 7  5 25  1    15.0 1     0.0     0.00    17.80    99.00    99.00
 7  5 25  2    15.0 1   273.0     0.50    17.80    99.00    99.00
 7  5 25  3    15.0 1   323.0     0.50    17.30    99.00    99.00
 7  5 25  4    15.0 1   304.0     1.00    16.60    99.00    99.00
 7  5 25  5    15.0 1   297.0     0.50    15.90    99.00    99.00
 7  5 25  6    15.0 1     0.0     0.00    15.60    99.00    99.00
 7  5 25  7    15.0 1   350.0     0.50    17.30    99.00    99.00
 7  5 25  8    15.0 1     0.0     0.00    19.30    99.00    99.00
 7  5 25  9    15.0 1     0.0     0.00    21.10    99.00    99.00
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7	5	25	10	15.0	1	0.0	0.00	23.10	99.00	99.00
7	5	25	11	15.0	1	0.0	0.00	25.10	99.00	99.00
7	5	25	12	15.0	1	0.0	0.00	26.90	99.00	99.00
7	5	25	13	15.0	1	0.0	0.00	28.30	99.00	99.00
7	5	25	14	15.0	1	0.0	0.00	29.30	99.00	99.00
7	5	25	15	15.0	1	21.0	1.50	29.80	99.00	99.00
7	5	25	16	15.0	1	16.0	3.10	29.40	99.00	99.00
7	5	25	17	15.0	1	29.0	3.10	27.90	99.00	99.00
7	5	25	18	15.0	1	23.0	3.10	26.40	99.00	99.00
7	5	25	19	15.0	1	340.0	2.60	25.60	99.00	99.00
7	5	25	20	15.0	1	294.0	4.10	24.90	99.00	99.00
7	5	25	21	15.0	1	278.0	4.60	21.90	99.00	99.00
7	5	25	22	15.0	1	283.0	4.60	20.40	99.00	99.00
7	5	25	23	15.0	1	282.0	4.10	19.50	99.00	99.00
7	5	25	24	15.0	1	285.0	2.60	18.50	99.00	99.00
7	5	26	1	15.0	1	299.0	1.00	18.00	99.00	99.00
7	5	26	2	15.0	1	259.0	0.50	17.50	99.00	99.00
7	5	26	3	15.0	1	218.0	0.50	17.40	99.00	99.00
7	5	26	4	15.0	1	216.0	0.50	17.40	99.00	99.00
7	5	26	5	15.0	1	199.0	0.50	16.90	99.00	99.00
7	5	26	6	15.0	1	118.0	0.50	16.50	99.00	99.00
7	5	26	7	15.0	1	0.0	0.00	17.00	99.00	99.00
7	5	26	8	15.0	1	0.0	0.00	18.60	99.00	99.00
7	5	26	9	15.0	1	0.0	0.00	21.10	99.00	99.00
7	5	26	10	15.0	1	0.0	0.00	23.10	99.00	99.00
7	5	26	11	15.0	1	0.0	0.00	24.80	99.00	99.00
7	5	26	12	15.0	1	0.0	0.00	26.40	99.00	99.00
7	5	26	13	15.0	1	0.0	0.00	27.90	99.00	99.00
7	5	26	14	15.0	1	0.0	0.00	29.00	99.00	99.00
7	5	26	15	15.0	1	7.0	0.50	29.80	99.00	99.00
7	5	26	16	15.0	1	17.0	1.00	30.30	99.00	99.00
7	5	26	17	15.0	1	24.0	1.50	30.40	99.00	99.00
7	5	26	18	15.0	1	307.0	2.60	30.00	99.00	99.00
7	5	26	19	15.0	1	282.0	5.10	25.80	99.00	99.00
7	5	26	20	15.0	1	270.0	5.10	22.00	99.00	99.00
7	5	26	21	15.0	1	268.0	5.10	20.10	99.00	99.00
7	5	26	22	15.0	1	279.0	4.10	18.60	99.00	99.00
7	5	26	23	15.0	1	307.0	2.10	17.90	99.00	99.00
7	5	26	24	15.0	1	38.0	2.60	17.50	99.00	99.00
7	5	27	1	15.0	1	28.0	2.10	16.90	99.00	99.00
7	5	27	2	15.0	1	333.0	1.50	16.10	99.00	99.00
7	5	27	3	15.0	1	294.0	2.10	15.40	99.00	99.00
7	5	27	4	15.0	1	291.0	3.10	14.60	99.00	99.00
7	5	27	5	15.0	1	288.0	2.60	14.10	99.00	99.00
7	5	27	6	15.0	1	293.0	2.10	14.60	99.00	99.00
7	5	27	7	15.0	1	302.0	1.50	16.30	99.00	99.00
7	5	27	8	15.0	1	0.0	0.00	17.60	99.00	99.00
7	5	27	9	15.0	1	0.0	0.00	19.40	99.00	99.00
7	5	27	10	15.0	1	0.0	0.00	21.30	99.00	99.00
7	5	27	11	15.0	1	0.0	0.00	23.10	99.00	99.00
7	5	27	12	15.0	1	0.0	0.00	24.90	99.00	99.00
7	5	27	13	15.0	1	328.0	0.50	26.10	99.00	99.00
7	5	27	14	15.0	1	330.0	1.00	27.10	99.00	99.00
7	5	27	15	15.0	1	344.0	1.50	27.90	99.00	99.00
7	5	27	16	15.0	1	336.0	2.10	28.10	99.00	99.00
7	5	27	17	15.0	1	348.0	3.10	28.10	99.00	99.00
7	5	27	18	15.0	1	337.0	2.60	27.50	99.00	99.00
7	5	27	19	15.0	1	295.0	4.60	25.30	99.00	99.00
7	5	27	20	15.0	1	271.0	5.70	21.10	99.00	99.00
7	5	27	21	15.0	1	275.0	5.70	18.90	99.00	99.00
7	5	27	22	15.0	1	266.0	5.10	17.60	99.00	99.00
7	5	27	23	15.0	1	266.0	4.10	16.60	99.00	99.00
7	5	27	24	15.0	1	270.0	4.10	15.90	99.00	99.00
7	5	28	1	15.0	1	280.0	3.10	15.30	99.00	99.00
7	5	28	2	15.0	1	284.0	2.10	15.00	99.00	99.00
7	5	28	3	15.0	1	278.0	1.50	14.80	99.00	99.00
7	5	28	4	15.0	1	318.0	0.50	14.60	99.00	99.00
7	5	28	5	15.0	1	24.0	0.50	14.30	99.00	99.00
7	5	28	6	15.0	1	348.0	1.00	14.30	99.00	99.00
7	5	28	7	15.0	1	324.0	1.50	15.60	99.00	99.00
7	5	28	8	15.0	1	286.0	0.50	17.00	99.00	99.00
7	5	28	9	15.0	1	0.0	0.00	18.90	99.00	99.00
7	5	28	10	15.0	1	0.0	0.00	20.60	99.00	99.00
7	5	28	11	15.0	1	0.0	0.00	22.60	99.00	99.00
7	5	28	12	15.0	1	0.0	0.00	24.50	99.00	99.00
7	5	28	13	15.0	1	301.0	0.50	25.80	99.00	99.00
7	5	28	14	15.0	1	323.0	0.50	26.80	99.00	99.00

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 7   5 28 15     15.0 1   318.0      0.50     27.50     99.00     99.00
 7   5 28 16     15.0 1   318.0      1.00     27.90     99.00     99.00
 7   5 28 17     15.0 1   308.0      2.60     27.90     99.00     99.00
 7   5 28 18     15.0 1   281.0      3.60     26.60     99.00     99.00
 7   5 28 19     15.0 1   272.0      5.10     23.10     99.00     99.00
 7   5 28 20     15.0 1   274.0      5.10     19.90     99.00     99.00
 7   5 28 21     15.0 1   269.0      5.10     17.90     99.00     99.00
 7   5 28 22     15.0 1   273.0      4.10     16.60     99.00     99.00
 7   5 28 23     15.0 1   282.0      3.10     15.80     99.00     99.00
 7   5 28 24     15.0 1   306.0      1.50     15.40     99.00     99.00
 7   5 29  1     15.0 1   346.0      1.50     15.10     99.00     99.00
 7   5 29  2     15.0 1    20.0      1.50     14.60     99.00     99.00
 7   5 29  3     15.0 1    40.0      0.50     14.30     99.00     99.00
 7   5 29  4     15.0 1     0.0      0.00     14.10     99.00     99.00
 7   5 29  5     15.0 1   224.0      0.50     14.00     99.00     99.00
 7   5 29  6     15.0 1   230.0      1.00     14.00     99.00     99.00
 7   5 29  7     15.0 1   285.0      1.00     16.10     99.00     99.00
 7   5 29  8     15.0 1     0.0      0.00     17.90     99.00     99.00
 7   5 29  9     15.0 1     0.0      0.00     19.60     99.00     99.00
 7   5 29 10     15.0 1     0.0      0.00     21.80     99.00     99.00
 7   5 29 11     15.0 1     0.0      0.00     23.80     99.00     99.00
 7   5 29 12     15.0 1     0.0      0.00     25.60     99.00     99.00
 7   5 29 13     15.0 1   299.0      0.50     27.30     99.00     99.00
 7   5 29 14     15.0 1   314.0      0.50     28.40     99.00     99.00
 7   5 29 15     15.0 1   324.0      0.50     29.10     99.00     99.00
 7   5 29 16     15.0 1   342.0      1.00     29.60     99.00     99.00
 7   5 29 17     15.0 1   353.0      2.10     29.90     99.00     99.00
 7   5 29 18     15.0 1   301.0      3.10     29.00     99.00     99.00
 7   5 29 19     15.0 1   278.0      5.10     24.40     99.00     99.00
 7   5 29 20     15.0 1   286.0      4.60     21.10     99.00     99.00
 7   5 29 21     15.0 1   276.0      4.60     19.10     99.00     99.00
 7   5 29 22     15.0 1   279.0      4.60     17.60     99.00     99.00
 7   5 29 23     15.0 1   305.0      2.60     16.60     99.00     99.00
 7   5 29 24     15.0 1     7.0      2.10     16.40     99.00     99.00
 7   5 30  1     15.0 1    16.0      2.60     15.80     99.00     99.00
 7   5 30  2     15.0 1     0.0      0.00     15.10     99.00     99.00
 7   5 30  3     15.0 1   360.0      2.10     14.60     99.00     99.00
 7   5 30  4     15.0 1   339.0      1.00     14.10     99.00     99.00
 7   5 30  5     15.0 1   291.0      1.00     13.80     99.00     99.00
 7   5 30  6     15.0 1   283.0      1.00     14.00     99.00     99.00
 7   5 30  7     15.0 1   295.0      1.50     15.90     99.00     99.00
 7   5 30  8     15.0 1     0.0      0.00     17.90     99.00     99.00
 7   5 30  9     15.0 1     0.0      0.00     19.60     99.00     99.00
 7   5 30 10     15.0 1     0.0      0.00     21.60     99.00     99.00
 7   5 30 11     15.0 1     0.0      0.00     23.60     99.00     99.00
 7   5 30 12     15.0 1     0.0      0.00     25.50     99.00     99.00
 7   5 30 13     15.0 1     0.0      0.00     27.00     99.00     99.00
 7   5 30 14     15.0 1   315.0      0.50     28.00     99.00     99.00
 7   5 30 15     15.0 1   326.0      1.00     28.60     99.00     99.00
 7   5 30 16     15.0 1   337.0      2.10     29.40     99.00     99.00
 7   5 30 17     15.0 1   326.0      2.60     29.50     99.00     99.00
 7   5 30 18     15.0 1   296.0      3.10     28.50     99.00     99.00
 7   5 30 19     15.0 1   285.0      5.10     24.60     99.00     99.00
 7   5 30 20     15.0 1   282.0      4.60     21.30     99.00     99.00
 7   5 30 21     15.0 1   282.0      5.10     19.10     99.00     99.00
 7   5 30 22     15.0 1   280.0      4.60     17.60     99.00     99.00
 7   5 30 23     15.0 1   288.0      3.10     16.60     99.00     99.00
 7   5 30 24     15.0 1   343.0      1.50     16.10     99.00     99.00
 7   5 31  1     15.0 1    13.0      1.00     15.60     99.00     99.00
 7   5 31  2     15.0 1   332.0      1.00     15.00     99.00     99.00
 7   5 31  3     15.0 1   292.0      1.00     14.50     99.00     99.00
 7   5 31  4     15.0 1   281.0      1.50     14.10     99.00     99.00
 7   5 31  5     15.0 1   294.0      1.50     13.80     99.00     99.00
 7   5 31  6     15.0 1   307.0      1.50     13.90     99.00     99.00
 7   5 31  7     15.0 1   326.0      0.50     15.60     99.00     99.00
 7   5 31  8     15.0 1     0.0      0.00     17.40     99.00     99.00
 7   5 31  9     15.0 1     0.0      0.00     19.10     99.00     99.00
 7   5 31 10     15.0 1     0.0      0.00     20.80     99.00     99.00
 7   5 31 11     15.0 1     0.0      0.00     22.60     99.00     99.00
 7   5 31 12     15.0 1     0.0      0.00     24.50     99.00     99.00
 7   5 31 13     15.0 1     0.0      0.00     25.90     99.00     99.00
 7   5 31 14     15.0 1   345.0      1.00     27.00     99.00     99.00
 7   5 31 15     15.0 1     0.0      0.00     27.60     99.00     99.00
 7   5 31 16     15.0 1    13.0      2.10     28.10     99.00     99.00
 7   5 31 17     15.0 1    22.0      2.60     28.10     99.00     99.00
 7   5 31 18     15.0 1    14.0      1.50     28.10     99.00     99.00
 7   5 31 19     15.0 1   294.0      4.10     26.60     99.00     99.00
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 7   5 31 20     15.0 1   274.0      5.10     21.50     99.00     99.00
 7   5 31 21     15.0 1   271.0      5.10     18.60     99.00     99.00
 7   5 31 22     15.0 1   275.0      4.60     17.10     99.00     99.00
 7   5 31 23     15.0 1   277.0      4.10     16.10     99.00     99.00
 7   5 31 24     15.0 1   287.0      3.10     15.40     99.00     99.00
 7   6  1  1     15.0 1   324.0      1.50     14.90     99.00     99.00
 7   6  1  2     15.0 1   355.0      0.50     14.50     99.00     99.00
 7   6  1  3     15.0 1   348.0      0.50     14.10     99.00     99.00
 7   6  1  4     15.0 1   287.0      0.50     13.90     99.00     99.00
 7   6  1  5     15.0 1   285.0      0.50     13.60     99.00     99.00
 7   6  1  6     15.0 1   283.0      0.50     13.60     99.00     99.00
 7   6  1  7     15.0 1   302.0      0.50     15.60     99.00     99.00
 7   6  1  8     15.0 1     0.0      0.00     17.60     99.00     99.00
 7   6  1  9     15.0 1     0.0      0.00     19.50     99.00     99.00
 7   6  1 10     15.0 1     0.0      0.00     21.40     99.00     99.00
 7   6  1 11     15.0 1     0.0      0.00     23.30     99.00     99.00
 7   6  1 12     15.0 1     0.0      0.00     25.10     99.00     99.00
 7   6  1 13     15.0 1     0.0      0.00     26.80     99.00     99.00
 7   6  1 14     15.0 1   340.0      0.50     28.10     99.00     99.00
 7   6  1 15     15.0 1     5.0      1.00     29.00     99.00     99.00
 7   6  1 16     15.0 1     0.0      0.00     29.50     99.00     99.00
 7   6  1 17     15.0 1   348.0      2.10     29.60     99.00     99.00
 7   6  1 18     15.0 1   321.0      2.60     28.80     99.00     99.00
 7   6  1 19     15.0 1   288.0      5.10     25.60     99.00     99.00
 7   6  1 20     15.0 1   267.0      5.10     21.40     99.00     99.00
 7   6  1 21     15.0 1   270.0      5.10     19.10     99.00     99.00
 7   6  1 22     15.0 1   266.0      4.60     17.80     99.00     99.00
 7   6  1 23     15.0 1   284.0      3.60     16.60     99.00     99.00
 7   6  1 24     15.0 1   294.0      3.10     15.90     99.00     99.00
 7   6  2  1     15.0 1   311.0      2.10     15.30     99.00     99.00
 7   6  2  2     15.0 1   318.0      1.50     14.80     99.00     99.00
 7   6  2  3     15.0 1   290.0      1.00     14.60     99.00     99.00
 7   6  2  4     15.0 1   272.0      1.50     14.40     99.00     99.00
 7   6  2  5     15.0 1   275.0      1.50     14.30     99.00     99.00
 7   6  2  6     15.0 1   300.0      1.00     14.10     99.00     99.00
 7   6  2  7     15.0 1   323.0      1.00     16.00     99.00     99.00
 7   6  2  8     15.0 1     0.0      0.00     17.60     99.00     99.00
 7   6  2  9     15.0 1     0.0      0.00     19.30     99.00     99.00
 7   6  2 10     15.0 1     0.0      0.00     21.10     99.00     99.00
 7   6  2 11     15.0 1     0.0      0.00     23.40     99.00     99.00
 7   6  2 12     15.0 1     0.0      0.00     25.30     99.00     99.00
 7   6  2 13     15.0 1     0.0      0.00     27.10     99.00     99.00
 7   6  2 14     15.0 1   341.0      0.50     28.50     99.00     99.00
 7   6  2 15     15.0 1     0.0      0.00     29.40     99.00     99.00
 7   6  2 16     15.0 1    12.0      2.10     29.80     99.00     99.00
 7   6  2 17     15.0 1    17.0      3.10     29.60     99.00     99.00
 7   6  2 18     15.0 1    24.0      2.60     29.10     99.00     99.00
 7   6  2 19     15.0 1   323.0      2.60     28.50     99.00     99.00
 7   6  2 20     15.0 1   284.0      5.10     24.50     99.00     99.00
 7   6  2 21     15.0 1   275.0      5.10     20.80     99.00     99.00
 7   6  2 22     15.0 1   271.0      4.10     19.40     99.00     99.00
 7   6  2 23     15.0 1   275.0      3.60     18.50     99.00     99.00
 7   6  2 24     15.0 1   284.0      2.60     17.90     99.00     99.00
 7   6  3  1     15.0 1   288.0      1.50     17.80     99.00     99.00
 7   6  3  2     15.0 1   277.0      1.00     17.60     99.00     99.00
 7   6  3  3     15.0 1   313.0      0.50     17.50     99.00     99.00
 7   6  3  4     15.0 1   352.0      0.50     17.10     99.00     99.00
 7   6  3  5     15.0 1     0.0      0.00     16.60     99.00     99.00
 7   6  3  6     15.0 1     0.0      0.00     16.60     99.00     99.00
 7   6  3  7     15.0 1     3.0      1.00     18.10     99.00     99.00
 7   6  3  8     15.0 1     0.0      0.00     19.50     99.00     99.00
 7   6  3  9     15.0 1     0.0      0.00     20.90     99.00     99.00
 7   6  3 10     15.0 1     0.0      0.00     23.00     99.00     99.00
 7   6  3 11     15.0 1     0.0      0.00     24.90     99.00     99.00
 7   6  3 12     15.0 1     0.0      0.00     26.60     99.00     99.00
 7   6  3 13     15.0 1     0.0      0.00     27.60     99.00     99.00
 7   6  3 14     15.0 1   315.0      0.50     28.50     99.00     99.00
 7   6  3 15     15.0 1   355.0      1.00     29.10     99.00     99.00
 7   6  3 16     15.0 1    15.0      1.50     29.30     99.00     99.00
 7   6  3 17     15.0 1    26.0      2.60     28.90     99.00     99.00
 7   6  3 18     15.0 1    31.0      3.10     28.10     99.00     99.00
 7   6  3 19     15.0 1    18.0      2.60     27.30     99.00     99.00
 7   6  3 20     15.0 1   309.0      2.10     26.40     99.00     99.00
 7   6  3 21     15.0 1   276.0      5.10     23.60     99.00     99.00
 7   6  3 22     15.0 1   285.0      4.60     21.30     99.00     99.00
 7   6  3 23     15.0 1   288.0      4.10     20.40     99.00     99.00
 7   6  3 24     15.0 1   297.0      3.10     20.10     99.00     99.00
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 7  6  4  1    15.0 1   329.0     3.10    20.10    99.00    99.00
 7  6  4  2    15.0 1   349.0     2.60    19.80    99.00    99.00
 7  6  4  3    15.0 1     0.0     0.00    19.30    99.00    99.00
 7  6  4  4    15.0 1     7.0     1.50    18.80    99.00    99.00
 7  6  4  5    15.0 1    10.0     1.50    18.30    99.00    99.00
 7  6  4  6    15.0 1   349.0     0.50    18.00    99.00    99.00
 7  6  4  7    15.0 1   346.0     1.00    18.00    99.00    99.00
 7  6  4  8    15.0 1   360.0     1.00    18.50    99.00    99.00
 7  6  4  9    15.0 1     0.0     0.00    19.90    99.00    99.00
 7  6  4 10    15.0 1     0.0     0.00    21.40    99.00    99.00
 7  6  4 11    15.0 1     0.0     0.00    23.10    99.00    99.00
 7  6  4 12    15.0 1     0.0     0.00    24.60    99.00    99.00
 7  6  4 13    15.0 1     0.0     0.00    26.30    99.00    99.00
 7  6  4 14    15.0 1     0.0     0.00    27.50    99.00    99.00
 7  6  4 15    15.0 1    12.0     1.00    28.30    99.00    99.00
 7  6  4 16    15.0 1     9.0     2.10    28.40    99.00    99.00
 7  6  4 17    15.0 1    22.0     3.10    28.10    99.00    99.00
 7  6  4 18    15.0 1    23.0     2.60    27.60    99.00    99.00
 7  6  4 19    15.0 1     7.0     3.10    26.80    99.00    99.00
 7  6  4 20    15.0 1     0.0     0.00    25.60    99.00    99.00
 7  6  4 21    15.0 1   299.0     2.10    24.50    99.00    99.00
 7  6  4 22    15.0 1   275.0     4.60    21.90    99.00    99.00
 7  6  4 23    15.0 1   282.0     5.10    19.80    99.00    99.00
 7  6  4 24    15.0 1   295.0     4.10    19.00    99.00    99.00
 7  6  5  1    15.0 1   319.0     3.60    18.40    99.00    99.00
 7  6  5  2    15.0 1   329.0     3.10    17.60    99.00    99.00
 7  6  5  3    15.0 1   338.0     3.10    17.10    99.00    99.00
 7  6  5  4    15.0 1   317.0     2.60    16.50    99.00    99.00
 7  6  5  5    15.0 1   314.0     2.60    16.10    99.00    99.00
 7  6  5  6    15.0 1   298.0     2.60    15.90    99.00    99.00
 7  6  5  7    15.0 1   315.0     3.10    16.30    99.00    99.00
 7  6  5  8    15.0 1   332.0     2.10    16.80    99.00    99.00
 7  6  5  9    15.0 1   338.0     1.00    17.90    99.00    99.00
 7  6  5 10    15.0 1     4.0     0.50    19.00    99.00    99.00
 7  6  5 11    15.0 1    34.0     0.50    20.10    99.00    99.00
 7  6  5 12    15.0 1    27.0     1.00    21.60    99.00    99.00
 7  6  5 13    15.0 1    15.0     2.10    22.80    99.00    99.00
 7  6  5 14    15.0 1     5.0     3.60    23.50    99.00    99.00
 7  6  5 15    15.0 1     4.0     4.60    23.80    99.00    99.00
 7  6  5 16    15.0 1   355.0     5.70    23.50    99.00    99.00
 7  6  5 17    15.0 1   351.0     6.20    22.60    99.00    99.00
 7  6  5 18    15.0 1     5.0     4.60    21.40    99.00    99.00
 7  6  5 19    15.0 1   349.0     4.60    19.50    99.00    99.00
 7  6  5 20    15.0 1   329.0     4.10    18.10    99.00    99.00
 7  6  5 21    15.0 1   299.0     4.60    16.60    99.00    99.00
 7  6  5 22    15.0 1   299.0     5.10    15.00    99.00    99.00
 7  6  5 23    15.0 1   313.0     4.10    13.90    99.00    99.00
 7  6  5 24    15.0 1   310.0     4.10    13.10    99.00    99.00
 7  6  6  1    15.0 1   315.0     3.60    12.40    99.00    99.00
 7  6  6  2    15.0 1   309.0     3.60    11.90    99.00    99.00
 7  6  6  3    15.0 1   309.0     3.10    11.30    99.00    99.00
 7  6  6  4    15.0 1   310.0     3.10    10.80    99.00    99.00
 7  6  6  5    15.0 1   310.0     2.60    10.30    99.00    99.00
 7  6  6  6    15.0 1   335.0     4.10    10.90    99.00    99.00
 7  6  6  7    15.0 1   336.0     4.60    12.30    99.00    99.00
 7  6  6  8    15.0 1   345.0     3.60    13.60    99.00    99.00
 7  6  6  9    15.0 1   343.0     3.10    14.80    99.00    99.00
 7  6  6 10    15.0 1   337.0     2.60    16.10    99.00    99.00
 7  6  6 11    15.0 1   327.0     3.10    17.40    99.00    99.00
 7  6  6 12    15.0 1   328.0     3.60    18.50    99.00    99.00
 7  6  6 13    15.0 1   341.0     4.60    19.10    99.00    99.00
 7  6  6 14    15.0 1   336.0     5.10    19.80    99.00    99.00
 7  6  6 15    15.0 1   336.0     5.70    20.10    99.00    99.00
 7  6  6 16    15.0 1   328.0     6.20    20.30    99.00    99.00
 7  6  6 17    15.0 1   330.0     5.70    20.10    99.00    99.00
 7  6  6 18    15.0 1   326.0     3.60    19.50    99.00    99.00
 7  6  6 19    15.0 1   333.0     4.10    18.10    99.00    99.00
 7  6  6 20    15.0 1   328.0     3.60    16.90    99.00    99.00
 7  6  6 21    15.0 1   325.0     3.60    16.10    99.00    99.00
 7  6  6 22    15.0 1   324.0     3.10    15.60    99.00    99.00
 7  6  6 23    15.0 1   310.0     1.50    14.80    99.00    99.00
 7  6  6 24    15.0 1   299.0     1.00    14.10    99.00    99.00
 7  6  7  1    15.0 1   239.0     1.00    13.30    99.00    99.00
 7  6  7  2    15.0 1   248.0     1.50    12.80    99.00    99.00
 7  6  7  3    15.0 1   259.0     1.50    12.30    99.00    99.00
 7  6  7  4    15.0 1   263.0     2.10    11.80    99.00    99.00
 7  6  7  5    15.0 1   275.0     2.60    11.30    99.00    99.00
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 7   6   7   6     15.0 1   274.0      2.10     11.10     99.00     99.00
 7   6   7   7     15.0 1   329.0      2.60     13.50     99.00     99.00
 7   6   7   8     15.0 1   338.0      1.50     15.30     99.00     99.00
 7   6   7   9     15.0 1   333.0      0.50     16.90     99.00     99.00
 7   6   7  10     15.0 1     0.0      0.00     18.50     99.00     99.00
 7   6   7  11     15.0 1     0.0      0.00     19.90     99.00     99.00
 7   6   7  12     15.0 1     0.0      0.00     21.10     99.00     99.00
 7   6   7  13     15.0 1   306.0      0.50     22.30     99.00     99.00
 7   6   7  14     15.0 1   326.0      1.50     23.10     99.00     99.00
 7   6   7  15     15.0 1   343.0      2.10     23.80     99.00     99.00
 7   6   7  16     15.0 1   353.0      2.60     24.00     99.00     99.00
 7   6   7  17     15.0 1     0.0      0.00     24.00     99.00     99.00
 7   6   7  18     15.0 1    29.0      2.10     23.30     99.00     99.00
 7   6   7  19     15.0 1    43.0      2.10     22.80     99.00     99.00
 7   6   7  20     15.0 1    36.0      1.00     21.50     99.00     99.00
 7   6   7  21     15.0 1   232.0      0.50     19.90     99.00     99.00
 7   6   7  22     15.0 1   238.0      2.60     18.10     99.00     99.00
 7   6   7  23     15.0 1   251.0      1.50     16.90     99.00     99.00
 7   6   7  24     15.0 1   295.0      1.50     16.00     99.00     99.00
 7   6   8   1     15.0 1   340.0      2.10     15.40     99.00     99.00
 7   6   8   2     15.0 1     0.0      0.00     14.60     99.00     99.00
 7   6   8   3     15.0 1     0.0      0.00     14.00     99.00     99.00
 7   6   8   4     15.0 1   356.0      1.50     13.40     99.00     99.00
 7   6   8   5     15.0 1     0.0      0.00     12.90     99.00     99.00
 7   6   8   6     15.0 1   356.0      0.50     12.60     99.00     99.00
 7   6   8   7     15.0 1   347.0      1.50     14.40     99.00     99.00
 7   6   8   8     15.0 1   319.0      0.50     16.10     99.00     99.00
 7   6   8   9     15.0 1     0.0      0.00     17.90     99.00     99.00
 7   6   8  10     15.0 1     0.0      0.00     19.60     99.00     99.00
 7   6   8  11     15.0 1     0.0      0.00     21.60     99.00     99.00
 7   6   8  12     15.0 1     0.0      0.00     23.30     99.00     99.00
 7   6   8  13     15.0 1     0.0      0.00     24.60     99.00     99.00
 7   6   8  14     15.0 1     0.0      0.00     25.60     99.00     99.00
 7   6   8  15     15.0 1   333.0      0.50     26.30     99.00     99.00
 7   6   8  16     15.0 1   349.0      1.50     26.60     99.00     99.00
 7   6   8  17     15.0 1   354.0      2.60     26.50     99.00     99.00
 7   6   8  18     15.0 1     4.0      2.60     25.60     99.00     99.00
 7   6   8  19     15.0 1     3.0      3.10     24.60     99.00     99.00
 7   6   8  20     15.0 1   348.0      2.60     23.50     99.00     99.00
 7   6   8  21     15.0 1   289.0      3.60     21.80     99.00     99.00
 7   6   8  22     15.0 1   270.0      4.60     18.40     99.00     99.00
 7   6   8  23     15.0 1   279.0      3.60     17.10     99.00     99.00
 7   6   8  24     15.0 1   277.0      2.60     16.90     99.00     99.00
 7   6   9   1     15.0 1   260.0      1.00     16.60     99.00     99.00
 7   6   9   2     15.0 1   280.0      1.00     16.40     99.00     99.00
 7   6   9   3     15.0 1   276.0      1.00     15.80     99.00     99.00
 7   6   9   4     15.0 1   257.0      1.00     15.10     99.00     99.00
 7   6   9   5     15.0 1   290.0      0.50     14.60     99.00     99.00
 7   6   9   6     15.0 1     0.0      0.00     14.40     99.00     99.00
 7   6   9   7     15.0 1   345.0      0.50     16.10     99.00     99.00
 7   6   9   8     15.0 1     0.0      0.00     18.10     99.00     99.00
 7   6   9   9     15.0 1   276.0      0.50     20.10     99.00     99.00
 7   6   9  10     15.0 1     0.0      0.00     22.10     99.00     99.00
 7   6   9  11     15.0 1     0.0      0.00     24.00     99.00     99.00
 7   6   9  12     15.0 1     0.0      0.00     25.60     99.00     99.00
 7   6   9  13     15.0 1   345.0      1.00     27.10     99.00     99.00
 7   6   9  14     15.0 1   354.0      1.50     28.10     99.00     99.00
 7   6   9  15     15.0 1   360.0      2.10     28.60     99.00     99.00
 7   6   9  16     15.0 1     0.0      0.00     29.10     99.00     99.00
 7   6   9  17     15.0 1     9.0      3.10     28.60     99.00     99.00
 7   6   9  18     15.0 1    13.0      2.60     28.00     99.00     99.00
 7   6   9  19     15.0 1     0.0      0.00     27.40     99.00     99.00
 7   6   9  20     15.0 1   344.0      2.10     26.10     99.00     99.00
 7   6   9  21     15.0 1   296.0      1.50     24.80     99.00     99.00
 7   6   9  22     15.0 1   288.0      2.10     23.60     99.00     99.00
 7   6   9  23     15.0 1   294.0      3.10     22.40     99.00     99.00
 7   6   9  24     15.0 1   307.0      2.10     21.10     99.00     99.00
 7   6  10   1     15.0 1   346.0      2.10     20.10     99.00     99.00
 7   6  10   2     15.0 1    30.0      1.00     19.10     99.00     99.00
 7   6  10   3     15.0 1     0.0      0.00     18.60     99.00     99.00
 7   6  10   4     15.0 1     0.0      0.00     18.00     99.00     99.00
 7   6  10   5     15.0 1    30.0      0.50     17.40     99.00     99.00
 7   6  10   6     15.0 1    71.0      0.50     17.00     99.00     99.00
 7   6  10   7     15.0 1    40.0      0.50     18.50     99.00     99.00
 7   6  10   8     15.0 1     0.0      0.00     20.10     99.00     99.00
 7   6  10   9     15.0 1     0.0      0.00     22.00     99.00     99.00
 7   6  10  10     15.0 1   281.0      1.00     23.00     99.00     99.00
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 7   6 10 11     15.0 1    288.0      1.50     24.10     99.00     99.00
 7   6 10 12     15.0 1    310.0      0.50     26.00     99.00     99.00
 7   6 10 13     15.0 1    342.0      1.00     27.60     99.00     99.00
 7   6 10 14     15.0 1    347.0      3.60     27.80     99.00     99.00
 7   6 10 15     15.0 1      1.0      4.10     26.90     99.00     99.00
 7   6 10 16     15.0 1      9.0      3.60     27.30     99.00     99.00
 7   6 10 17     15.0 1     11.0      3.10     27.60     99.00     99.00
 7   6 10 18     15.0 1      9.0      2.10     27.60     99.00     99.00
 7   6 10 19     15.0 1    356.0      2.10     27.10     99.00     99.00
 7   6 10 20     15.0 1    335.0      2.60     25.80     99.00     99.00
 7   6 10 21     15.0 1    327.0      4.10     24.10     99.00     99.00
 7   6 10 22     15.0 1    330.0      3.60     22.60     99.00     99.00
 7   6 10 23     15.0 1    342.0      3.10     22.00     99.00     99.00
 7   6 10 24     15.0 1    350.0      3.10     21.30     99.00     99.00
 7   6 11  1     15.0 1    354.0      3.10     20.40     99.00     99.00
 7   6 11  2     15.0 1    352.0      3.10     19.50     99.00     99.00
 7   6 11  3     15.0 1     11.0      2.60     18.80     99.00     99.00
 7   6 11  4     15.0 1     16.0      2.10     18.10     99.00     99.00
 7   6 11  5     15.0 1     17.0      1.50     17.60     99.00     99.00
 7   6 11  6     15.0 1      0.0      0.00     17.60     99.00     99.00
 7   6 11  7     15.0 1    356.0      1.50     18.60     99.00     99.00
 7   6 11  8     15.0 1      0.0      0.00     20.40     99.00     99.00
 7   6 11  9     15.0 1      0.0      0.00     22.10     99.00     99.00
 7   6 11 10     15.0 1      0.0      0.00     23.60     99.00     99.00
 7   6 11 11     15.0 1      0.0      0.00     25.40     99.00     99.00
 7   6 11 12     15.0 1    313.0      0.50     26.80     99.00     99.00
 7   6 11 13     15.0 1    319.0      0.50     27.90     99.00     99.00
 7   6 11 14     15.0 1    342.0      1.50     28.90     99.00     99.00
 7   6 11 15     15.0 1    348.0      2.60     29.50     99.00     99.00
 7   6 11 16     15.0 1    350.0      3.60     29.50     99.00     99.00
 7   6 11 17     15.0 1      2.0      3.60     29.10     99.00     99.00
 7   6 11 18     15.0 1    352.0      3.10     28.60     99.00     99.00
 7   6 11 19     15.0 1    341.0      3.60     27.40     99.00     99.00
 7   6 11 20     15.0 1    319.0      4.10     25.60     99.00     99.00
 7   6 11 21     15.0 1    318.0      4.10     24.10     99.00     99.00
 7   6 11 22     15.0 1    330.0      3.60     23.10     99.00     99.00
 7   6 11 23     15.0 1    325.0      3.60     22.60     99.00     99.00
 7   6 11 24     15.0 1    330.0      3.60     21.40     99.00     99.00
 7   6 12  1     15.0 1    352.0      3.10     20.10     99.00     99.00
 7   6 12  2     15.0 1    348.0      3.10     19.30     99.00     99.00
 7   6 12  3     15.0 1    348.0      2.60     18.60     99.00     99.00
 7   6 12  4     15.0 1    336.0      1.50     18.00     99.00     99.00
 7   6 12  5     15.0 1    332.0      0.50     17.50     99.00     99.00
 7   6 12  6     15.0 1    334.0      0.50     17.40     99.00     99.00
 7   6 12  7     15.0 1    338.0      1.00     18.50     99.00     99.00
 7   6 12  8     15.0 1      0.0      0.00     20.40     99.00     99.00
 7   6 12  9     15.0 1      0.0      0.00     22.40     99.00     99.00
 7   6 12 10     15.0 1      0.0      0.00     24.40     99.00     99.00
 7   6 12 11     15.0 1    321.0      0.50     26.10     99.00     99.00
 7   6 12 12     15.0 1    340.0      0.50     27.60     99.00     99.00
 7   6 12 13     15.0 1    353.0      1.00     29.10     99.00     99.00
 7   6 12 14     15.0 1      5.0      2.10     30.10     99.00     99.00
 7   6 12 15     15.0 1     11.0      3.10     30.60     99.00     99.00
 7   6 12 16     15.0 1     12.0      3.60     30.80     99.00     99.00
 7   6 12 17     15.0 1      9.0      3.10     30.50     99.00     99.00
 7   6 12 18     15.0 1      4.0      2.60     30.10     99.00     99.00
 7   6 12 19     15.0 1    344.0      3.10     29.50     99.00     99.00
 7   6 12 20     15.0 1    320.0      3.60     28.30     99.00     99.00
 7   6 12 21     15.0 1    321.0      4.10     26.10     99.00     99.00
 7   6 12 22     15.0 1    316.0      3.60     24.60     99.00     99.00
 7   6 12 23     15.0 1    307.0      3.60     23.50     99.00     99.00
 7   6 12 24     15.0 1    324.0      3.10     22.60     99.00     99.00
 7   6 13  1     15.0 1    339.0      2.10     22.10     99.00     99.00
 7   6 13  2     15.0 1    343.0      1.50     21.50     99.00     99.00
 7   6 13  3     15.0 1    318.0      0.50     20.80     99.00     99.00
 7   6 13  4     15.0 1    252.0      0.50     20.30     99.00     99.00
 7   6 13  5     15.0 1    270.0      0.50     19.80     99.00     99.00
 7   6 13  6     15.0 1      0.0      0.00     19.60     99.00     99.00
 7   6 13  7     15.0 1    335.0      0.50     20.90     99.00     99.00
 7   6 13  8     15.0 1      0.0      0.00     22.80     99.00     99.00
 7   6 13  9     15.0 1      0.0      0.00     24.60     99.00     99.00
 7   6 13 10     15.0 1      0.0      0.00     26.60     99.00     99.00
 7   6 13 11     15.0 1      0.0      0.00     28.60     99.00     99.00
 7   6 13 12     15.0 1      0.0      0.00     30.10     99.00     99.00
 7   6 13 13     15.0 1      0.0      0.00     31.40     99.00     99.00
 7   6 13 14     15.0 1      4.0      1.00     32.40     99.00     99.00
 7   6 13 15     15.0 1      0.0      0.00     33.00     99.00     99.00
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7	6	13	16	15.0	1	14.0	2.60	33.30	99.00	99.00
7	6	13	17	15.0	1	15.0	2.60	32.90	99.00	99.00
7	6	13	18	15.0	1	5.0	2.10	32.60	99.00	99.00
7	6	13	19	15.0	1	336.0	2.10	31.60	99.00	99.00
7	6	13	20	15.0	1	316.0	1.50	30.30	99.00	99.00
7	6	13	21	15.0	1	298.0	2.10	29.10	99.00	99.00
7	6	13	22	15.0	1	297.0	2.60	28.10	99.00	99.00
7	6	13	23	15.0	1	287.0	2.60	27.00	99.00	99.00
7	6	13	24	15.0	1	268.0	2.10	25.60	99.00	99.00
7	6	14	1	15.0	1	259.0	1.50	24.60	99.00	99.00
7	6	14	2	15.0	1	330.0	1.00	24.10	99.00	99.00
7	6	14	3	15.0	1	9.0	1.00	23.50	99.00	99.00
7	6	14	4	15.0	1	350.0	1.00	22.90	99.00	99.00
7	6	14	5	15.0	1	327.0	0.50	22.10	99.00	99.00
7	6	14	6	15.0	1	301.0	0.50	22.00	99.00	99.00
7	6	14	7	15.0	1	339.0	2.10	23.30	99.00	99.00
7	6	14	8	15.0	1	317.0	0.50	25.00	99.00	99.00
7	6	14	9	15.0	1	0.0	0.00	27.00	99.00	99.00
7	6	14	10	15.0	1	0.0	0.00	28.80	99.00	99.00
7	6	14	11	15.0	1	0.0	0.00	30.50	99.00	99.00
7	6	14	12	15.0	1	0.0	0.00	31.90	99.00	99.00
7	6	14	13	15.0	1	0.0	0.00	33.10	99.00	99.00
7	6	14	14	15.0	1	326.0	0.50	34.00	99.00	99.00
7	6	14	15	15.0	1	350.0	1.00	34.60	99.00	99.00
7	6	14	16	15.0	1	8.0	1.50	34.90	99.00	99.00
7	6	14	17	15.0	1	8.0	2.10	34.50	99.00	99.00
7	6	14	18	15.0	1	0.0	0.00	33.90	99.00	99.00
7	6	14	19	15.0	1	346.0	3.10	32.80	99.00	99.00
7	6	14	20	15.0	1	329.0	3.60	31.10	99.00	99.00
7	6	14	21	15.0	1	306.0	4.60	29.80	99.00	99.00
7	6	14	22	15.0	1	287.0	4.60	26.60	99.00	99.00
7	6	14	23	15.0	1	278.0	4.10	24.90	99.00	99.00
7	6	14	24	15.0	1	279.0	3.10	24.10	99.00	99.00
7	6	15	1	15.0	1	282.0	2.10	24.10	99.00	99.00
7	6	15	2	15.0	1	271.0	1.50	23.60	99.00	99.00
7	6	15	3	15.0	1	270.0	1.00	23.40	99.00	99.00
7	6	15	4	15.0	1	304.0	0.50	22.90	99.00	99.00
7	6	15	5	15.0	1	345.0	0.50	22.30	99.00	99.00
7	6	15	6	15.0	1	342.0	0.50	22.00	99.00	99.00
7	6	15	7	15.0	1	347.0	1.00	23.50	99.00	99.00
7	6	15	8	15.0	1	0.0	0.00	25.40	99.00	99.00
7	6	15	9	15.0	1	0.0	0.00	27.40	99.00	99.00
7	6	15	10	15.0	1	0.0	0.00	29.10	99.00	99.00
7	6	15	11	15.0	1	0.0	0.00	30.60	99.00	99.00
7	6	15	12	15.0	1	0.0	0.00	32.10	99.00	99.00
7	6	15	13	15.0	1	0.0	0.00	33.40	99.00	99.00
7	6	15	14	15.0	1	357.0	0.50	34.40	99.00	99.00
7	6	15	15	15.0	1	15.0	1.00	35.00	99.00	99.00
7	6	15	16	15.0	1	14.0	1.50	35.10	99.00	99.00
7	6	15	17	15.0	1	9.0	2.10	35.10	99.00	99.00
7	6	15	18	15.0	1	316.0	2.10	34.80	99.00	99.00
7	6	15	19	15.0	1	285.0	5.10	31.90	99.00	99.00
7	6	15	20	15.0	1	277.0	4.60	27.80	99.00	99.00
7	6	15	21	15.0	1	280.0	4.10	25.40	99.00	99.00
7	6	15	22	15.0	1	295.0	3.60	24.10	99.00	99.00
7	6	15	23	15.0	1	321.0	3.10	23.30	99.00	99.00
7	6	15	24	15.0	1	13.0	3.60	22.60	99.00	99.00
7	6	16	1	15.0	1	10.0	4.60	21.50	99.00	99.00
7	6	16	2	15.0	1	347.0	4.60	20.60	99.00	99.00
7	6	16	3	15.0	1	340.0	4.10	19.80	99.00	99.00
7	6	16	4	15.0	1	320.0	3.60	19.10	99.00	99.00
7	6	16	5	15.0	1	319.0	3.60	18.50	99.00	99.00
7	6	16	6	15.0	1	311.0	3.10	18.80	99.00	99.00
7	6	16	7	15.0	1	299.0	2.10	20.40	99.00	99.00
7	6	16	8	15.0	1	287.0	0.50	22.60	99.00	99.00
7	6	16	9	15.0	1	0.0	0.00	24.50	99.00	99.00
7	6	16	10	15.0	1	0.0	0.00	26.30	99.00	99.00
7	6	16	11	15.0	1	0.0	0.00	28.10	99.00	99.00
7	6	16	12	15.0	1	0.0	0.00	29.50	99.00	99.00
7	6	16	13	15.0	1	330.0	0.50	30.60	99.00	99.00
7	6	16	14	15.0	1	339.0	1.00	31.50	99.00	99.00
7	6	16	15	15.0	1	330.0	2.10	32.10	99.00	99.00
7	6	16	16	15.0	1	323.0	3.60	32.10	99.00	99.00
7	6	16	17	15.0	1	302.0	3.10	31.10	99.00	99.00
7	6	16	18	15.0	1	285.0	4.60	29.30	99.00	99.00
7	6	16	19	15.0	1	274.0	5.10	26.30	99.00	99.00
7	6	16	20	15.0	1	271.0	4.60	23.80	99.00	99.00

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 7   6 16 21     15.0 1   257.0      5.10     21.60     99.00     99.00
 7   6 16 22     15.0 1   257.0      4.60     20.30     99.00     99.00
 7   6 16 23     15.0 1   257.0      3.60     19.50     99.00     99.00
 7   6 16 24     15.0 1   250.0      2.60     18.90     99.00     99.00
 7   6 17  1     15.0 1   236.0      1.50     18.60     99.00     99.00
 7   6 17  2     15.0 1   259.0      1.00     18.30     99.00     99.00
 7   6 17  3     15.0 1   277.0      1.00     18.10     99.00     99.00
 7   6 17  4     15.0 1   288.0      1.50     17.90     99.00     99.00
 7   6 17  5     15.0 1   299.0      0.50     17.80     99.00     99.00
 7   6 17  6     15.0 1   302.0      0.50     18.10     99.00     99.00
 7   6 17  7     15.0 1   287.0      0.50     19.60     99.00     99.00
 7   6 17  8     15.0 1     0.0      0.00     21.10     99.00     99.00
 7   6 17  9     15.0 1     0.0      0.00     22.40     99.00     99.00
 7   6 17 10     15.0 1     0.0      0.00     24.10     99.00     99.00
 7   6 17 11     15.0 1     0.0      0.00     25.90     99.00     99.00
 7   6 17 12     15.0 1     0.0      0.00     27.30     99.00     99.00
 7   6 17 13     15.0 1     0.0      0.00     28.60     99.00     99.00
 7   6 17 14     15.0 1     0.0      0.00     29.60     99.00     99.00
 7   6 17 15     15.0 1    13.0      1.00     30.40     99.00     99.00
 7   6 17 16     15.0 1    18.0      2.10     30.60     99.00     99.00
 7   6 17 17     15.0 1    28.0      2.60     30.60     99.00     99.00
 7   6 17 18     15.0 1    42.0      2.10     30.30     99.00     99.00
 7   6 17 19     15.0 1    32.0      2.60     29.60     99.00     99.00
 7   6 17 20     15.0 1   322.0      2.10     28.60     99.00     99.00
 7   6 17 21     15.0 1   285.0      5.10     25.10     99.00     99.00
 7   6 17 22     15.0 1   285.0      4.60     22.10     99.00     99.00
 7   6 17 23     15.0 1   283.0      4.10     20.90     99.00     99.00
 7   6 17 24     15.0 1   289.0      3.60     20.10     99.00     99.00
 7   6 18  1     15.0 1   290.0      3.10     19.50     99.00     99.00
 7   6 18  2     15.0 1   302.0      1.50     19.30     99.00     99.00
 7   6 18  3     15.0 1   294.0      1.00     19.10     99.00     99.00
 7   6 18  4     15.0 1   265.0      1.00     19.10     99.00     99.00
 7   6 18  5     15.0 1   271.0      1.00     18.90     99.00     99.00
 7   6 18  6     15.0 1   285.0      0.50     18.90     99.00     99.00
 7   6 18  7     15.0 1   336.0      0.50     20.60     99.00     99.00
 7   6 18  8     15.0 1     0.0      0.00     22.10     99.00     99.00
 7   6 18  9     15.0 1     0.0      0.00     23.80     99.00     99.00
 7   6 18 10     15.0 1     0.0      0.00     25.60     99.00     99.00
 7   6 18 11     15.0 1     0.0      0.00     27.40     99.00     99.00
 7   6 18 12     15.0 1   328.0      0.50     29.00     99.00     99.00
 7   6 18 13     15.0 1     0.0      0.00     30.40     99.00     99.00
 7   6 18 14     15.0 1   332.0      0.50     31.50     99.00     99.00
 7   6 18 15     15.0 1   352.0      1.00     32.10     99.00     99.00
 7   6 18 16     15.0 1   360.0      1.50     32.50     99.00     99.00
 7   6 18 17     15.0 1    16.0      2.10     32.50     99.00     99.00
 7   6 18 18     15.0 1     0.0      0.00     32.30     99.00     99.00
 7   6 18 19     15.0 1   291.0      5.10     30.40     99.00     99.00
 7   6 18 20     15.0 1   270.0      5.10     25.10     99.00     99.00
 7   6 18 21     15.0 1   278.0      5.10     22.60     99.00     99.00
 7   6 18 22     15.0 1   290.0      4.10     21.10     99.00     99.00
 7   6 18 23     15.0 1   307.0      3.10     20.10     99.00     99.00
 7   6 18 24     15.0 1   350.0      2.60     19.60     99.00     99.00
 7   6 19  1     15.0 1    22.0      3.10     19.00     99.00     99.00
 7   6 19  2     15.0 1    25.0      2.60     18.30     99.00     99.00
 7   6 19  3     15.0 1     8.0      2.60     17.60     99.00     99.00
 7   6 19  4     15.0 1     0.0      0.00     17.10     99.00     99.00
 7   6 19  5     15.0 1     0.0      0.00     16.80     99.00     99.00
 7   6 19  6     15.0 1   336.0      1.50     17.30     99.00     99.00
 7   6 19  7     15.0 1   323.0      1.00     19.10     99.00     99.00
 7   6 19  8     15.0 1     0.0      0.00     21.10     99.00     99.00
 7   6 19  9     15.0 1     0.0      0.00     23.00     99.00     99.00
 7   6 19 10     15.0 1     0.0      0.00     25.00     99.00     99.00
 7   6 19 11     15.0 1     0.0      0.00     27.30     99.00     99.00
 7   6 19 12     15.0 1     0.0      0.00     29.00     99.00     99.00
 7   6 19 13     15.0 1   336.0      0.50     30.50     99.00     99.00
 7   6 19 14     15.0 1   352.0      0.50     31.60     99.00     99.00
 7   6 19 15     15.0 1   346.0      1.50     32.30     99.00     99.00
 7   6 19 16     15.0 1   330.0      2.10     33.10     99.00     99.00
 7   6 19 17     15.0 1   315.0      2.60     32.60     99.00     99.00
 7   6 19 18     15.0 1   301.0      3.60     31.30     99.00     99.00
 7   6 19 19     15.0 1   294.0      5.10     28.10     99.00     99.00
 7   6 19 20     15.0 1   278.0      5.10     24.90     99.00     99.00
 7   6 19 21     15.0 1   276.0      4.60     22.50     99.00     99.00
 7   6 19 22     15.0 1   286.0      4.10     20.90     99.00     99.00
 7   6 19 23     15.0 1   314.0      3.10     19.90     99.00     99.00
 7   6 19 24     15.0 1   338.0      3.10     19.10     99.00     99.00
 7   6 20  1     15.0 1    11.0      3.60     18.30     99.00     99.00
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 7   6 20   2    15.0 1     0.0      0.00    17.60    99.00    99.00
 7   6 20   3    15.0 1   341.0      3.10    17.10    99.00    99.00
 7   6 20   4    15.0 1   321.0      3.10    16.60    99.00    99.00
 7   6 20   5    15.0 1   318.0      3.10    15.90    99.00    99.00
 7   6 20   6    15.0 1   321.0      2.60    16.30    99.00    99.00
 7   6 20   7    15.0 1   307.0      1.50    18.00    99.00    99.00
 7   6 20   8    15.0 1     0.0      0.00    20.00    99.00    99.00
 7   6 20   9    15.0 1     0.0      0.00    21.80    99.00    99.00
 7   6 20  10    15.0 1     0.0      0.00    23.60    99.00    99.00
 7   6 20  11    15.0 1     0.0      0.00    25.40    99.00    99.00
 7   6 20  12    15.0 1     0.0      0.00    27.00    99.00    99.00
 7   6 20  13    15.0 1   336.0      0.50    28.50    99.00    99.00
 7   6 20  14    15.0 1   357.0      1.00    29.50    99.00    99.00
 7   6 20  15    15.0 1     0.0      0.00    30.10    99.00    99.00
 7   6 20  16    15.0 1     0.0      0.00    30.40    99.00    99.00
 7   6 20  17    15.0 1     8.0      2.60    30.10    99.00    99.00
 7   6 20  18    15.0 1    21.0      2.60    29.50    99.00    99.00
 7   6 20  19    15.0 1    16.0      3.10    28.80    99.00    99.00
 7   6 20  20    15.0 1   346.0      2.60    27.60    99.00    99.00
 7   6 20  21    15.0 1   278.0      4.60    24.60    99.00    99.00
 7   6 20  22    15.0 1   281.0      5.10    21.10    99.00    99.00
 7   6 20  23    15.0 1   276.0      4.10    19.80    99.00    99.00
 7   6 20  24    15.0 1   296.0      3.10    19.30    99.00    99.00
 7   6 21   1    15.0 1   317.0      3.10    19.10    99.00    99.00
 7   6 21   2    15.0 1   340.0      3.10    18.80    99.00    99.00
 7   6 21   3    15.0 1   347.0      2.60    18.30    99.00    99.00
 7   6 21   4    15.0 1   354.0      1.50    17.60    99.00    99.00
 7   6 21   5    15.0 1   352.0      1.00    17.00    99.00    99.00
 7   6 21   6    15.0 1   327.0      0.50    16.90    99.00    99.00
 7   6 21   7    15.0 1   346.0      1.00    18.10    99.00    99.00
 7   6 21   8    15.0 1     0.0      0.00    20.10    99.00    99.00
 7   6 21   9    15.0 1     0.0      0.00    21.90    99.00    99.00
 7   6 21  10    15.0 1     0.0      0.00    23.80    99.00    99.00
 7   6 21  11    15.0 1     0.0      0.00    25.60    99.00    99.00
 7   6 21  12    15.0 1   296.0      0.50    27.10    99.00    99.00
 7   6 21  13    15.0 1   328.0      0.50    28.30    99.00    99.00
 7   6 21  14    15.0 1   355.0      1.50    29.10    99.00    99.00
 7   6 21  15    15.0 1   351.0      2.60    29.60    99.00    99.00
 7   6 21  16    15.0 1     2.0      3.60    29.80    99.00    99.00
 7   6 21  17    15.0 1     1.0      3.60    29.40    99.00    99.00
 7   6 21  18    15.0 1   348.0      3.10    28.90    99.00    99.00
 7   6 21  19    15.0 1   348.0      4.10    27.60    99.00    99.00
 7   6 21  20    15.0 1   340.0      4.10    25.60    99.00    99.00
 7   6 21  21    15.0 1   337.0      3.60    24.10    99.00    99.00
 7   6 21  22    15.0 1   341.0      3.60    23.10    99.00    99.00
 7   6 21  23    15.0 1   328.0      3.60    22.30    99.00    99.00
 7   6 21  24    15.0 1   338.0      3.60    21.00    99.00    99.00
 7   6 22   1    15.0 1   347.0      3.10    20.10    99.00    99.00
 7   6 22   2    15.0 1     0.0      0.00    19.30    99.00    99.00
 7   6 22   3    15.0 1    15.0      2.10    18.60    99.00    99.00
 7   6 22   4    15.0 1    21.0      1.50    18.10    99.00    99.00
 7   6 22   5    15.0 1   348.0      0.50    17.50    99.00    99.00
 7   6 22   6    15.0 1   354.0      1.00    17.50    99.00    99.00
 7   6 22   7    15.0 1   353.0      1.00    18.60    99.00    99.00
 7   6 22   8    15.0 1     0.0      0.00    20.10    99.00    99.00
 7   6 22   9    15.0 1     0.0      0.00    22.00    99.00    99.00
 7   6 22  10    15.0 1     0.0      0.00    23.90    99.00    99.00
 7   6 22  11    15.0 1     0.0      0.00    25.60    99.00    99.00
 7   6 22  12    15.0 1   310.0      0.50    27.30    99.00    99.00
 7   6 22  13    15.0 1   333.0      1.00    28.50    99.00    99.00
 7   6 22  14    15.0 1   351.0      2.10    29.40    99.00    99.00
 7   6 22  15    15.0 1     5.0      2.60    29.90    99.00    99.00
 7   6 22  16    15.0 1     0.0      0.00    30.10    99.00    99.00
 7   6 22  17    15.0 1     0.0      0.00    29.60    99.00    99.00
 7   6 22  18    15.0 1   357.0      3.10    29.10    99.00    99.00
 7   6 22  19    15.0 1   353.0      4.10    27.80    99.00    99.00
 7   6 22  20    15.0 1   337.0      4.10    25.50    99.00    99.00
 7   6 22  21    15.0 1   339.0      4.10    23.80    99.00    99.00
 7   6 22  22    15.0 1   342.0      3.60    22.60    99.00    99.00
 7   6 22  23    15.0 1   344.0      3.60    21.40    99.00    99.00
 7   6 22  24    15.0 1   338.0      3.60    20.30    99.00    99.00
 7   6 23   1    15.0 1   355.0      3.10    19.40    99.00    99.00
 7   6 23   2    15.0 1     0.0      0.00    18.60    99.00    99.00
 7   6 23   3    15.0 1     7.0      1.50    18.10    99.00    99.00
 7   6 23   4    15.0 1     0.0      0.00    17.50    99.00    99.00
 7   6 23   5    15.0 1   330.0      1.00    16.90    99.00    99.00
 7   6 23   6    15.0 1   338.0      1.00    16.80    99.00    99.00
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7	6	23	7	15.0	1	352.0	0.50	17.90	99.00	99.00
7	6	23	8	15.0	1	0.0	0.00	19.60	99.00	99.00
7	6	23	9	15.0	1	0.0	0.00	21.40	99.00	99.00
7	6	23	10	15.0	1	0.0	0.00	23.40	99.00	99.00
7	6	23	11	15.0	1	0.0	0.00	25.10	99.00	99.00
7	6	23	12	15.0	1	0.0	0.00	27.00	99.00	99.00
7	6	23	13	15.0	1	344.0	1.00	28.10	99.00	99.00
7	6	23	14	15.0	1	350.0	1.50	29.00	99.00	99.00
7	6	23	15	15.0	1	348.0	2.60	29.50	99.00	99.00
7	6	23	16	15.0	1	3.0	3.60	29.60	99.00	99.00
7	6	23	17	15.0	1	2.0	3.60	29.30	99.00	99.00
7	6	23	18	15.0	1	351.0	3.10	28.60	99.00	99.00
7	6	23	19	15.0	1	354.0	4.10	27.10	99.00	99.00
7	6	23	20	15.0	1	343.0	4.10	25.00	99.00	99.00
7	6	23	21	15.0	1	338.0	4.10	23.30	99.00	99.00
7	6	23	22	15.0	1	341.0	4.10	22.10	99.00	99.00
7	6	23	23	15.0	1	341.0	3.60	20.90	99.00	99.00
7	6	23	24	15.0	1	328.0	3.60	19.60	99.00	99.00
7	6	24	1	15.0	1	344.0	3.10	18.80	99.00	99.00
7	6	24	2	15.0	1	348.0	2.60	18.10	99.00	99.00
7	6	24	3	15.0	1	352.0	2.10	17.50	99.00	99.00
7	6	24	4	15.0	1	341.0	1.50	17.00	99.00	99.00
7	6	24	5	15.0	1	333.0	0.50	16.40	99.00	99.00
7	6	24	6	15.0	1	347.0	1.00	16.40	99.00	99.00
7	6	24	7	15.0	1	5.0	1.00	17.40	99.00	99.00
7	6	24	8	15.0	1	0.0	0.00	19.10	99.00	99.00
7	6	24	9	15.0	1	0.0	0.00	20.90	99.00	99.00
7	6	24	10	15.0	1	0.0	0.00	22.60	99.00	99.00
7	6	24	11	15.0	1	0.0	0.00	24.50	99.00	99.00
7	6	24	12	15.0	1	306.0	0.50	25.90	99.00	99.00
7	6	24	13	15.0	1	327.0	1.00	27.00	99.00	99.00
7	6	24	14	15.0	1	354.0	1.50	27.80	99.00	99.00
7	6	24	15	15.0	1	349.0	2.60	28.30	99.00	99.00
7	6	24	16	15.0	1	346.0	3.60	29.10	99.00	99.00
7	6	24	17	15.0	1	358.0	3.60	28.60	99.00	99.00
7	6	24	18	15.0	1	349.0	3.10	27.80	99.00	99.00
7	6	24	19	15.0	1	346.0	4.10	26.40	99.00	99.00
7	6	24	20	15.0	1	339.0	4.10	24.10	99.00	99.00
7	6	24	21	15.0	1	331.0	3.60	22.60	99.00	99.00
7	6	24	22	15.0	1	328.0	3.60	21.60	99.00	99.00
7	6	24	23	15.0	1	316.0	3.10	20.80	99.00	99.00
7	6	24	24	15.0	1	323.0	3.10	19.80	99.00	99.00
7	6	25	1	15.0	1	333.0	2.60	19.00	99.00	99.00
7	6	25	2	15.0	1	338.0	1.50	18.40	99.00	99.00
7	6	25	3	15.0	1	347.0	0.50	17.80	99.00	99.00
7	6	25	4	15.0	1	0.0	0.00	17.30	99.00	99.00
7	6	25	5	15.0	1	0.0	0.00	16.60	99.00	99.00
7	6	25	6	15.0	1	336.0	0.50	16.60	99.00	99.00
7	6	25	7	15.0	1	349.0	1.00	17.80	99.00	99.00
7	6	25	8	15.0	1	0.0	0.00	19.60	99.00	99.00
7	6	25	9	15.0	1	0.0	0.00	21.50	99.00	99.00
7	6	25	10	15.0	1	264.0	0.50	23.30	99.00	99.00
7	6	25	11	15.0	1	276.0	0.50	25.10	99.00	99.00
7	6	25	12	15.0	1	0.0	0.00	26.60	99.00	99.00
7	6	25	13	15.0	1	0.0	0.00	27.60	99.00	99.00
7	6	25	14	15.0	1	319.0	0.50	28.60	99.00	99.00
7	6	25	15	15.0	1	356.0	1.00	29.10	99.00	99.00
7	6	25	16	15.0	1	0.0	0.00	29.50	99.00	99.00
7	6	25	17	15.0	1	8.0	2.60	29.40	99.00	99.00
7	6	25	18	15.0	1	12.0	2.10	28.90	99.00	99.00
7	6	25	19	15.0	1	6.0	2.60	28.10	99.00	99.00
7	6	25	20	15.0	1	0.0	0.00	26.80	99.00	99.00
7	6	25	21	15.0	1	345.0	1.00	25.50	99.00	99.00
7	6	25	22	15.0	1	272.0	1.00	24.10	99.00	99.00
7	6	25	23	15.0	1	271.0	2.10	22.90	99.00	99.00
7	6	25	24	15.0	1	282.0	2.10	21.60	99.00	99.00
7	6	26	1	15.0	1	302.0	1.50	20.80	99.00	99.00
7	6	26	2	15.0	1	335.0	2.60	20.10	99.00	99.00
7	6	26	3	15.0	1	353.0	3.10	19.30	99.00	99.00
7	6	26	4	15.0	1	5.0	3.10	18.30	99.00	99.00
7	6	26	5	15.0	1	359.0	2.60	17.60	99.00	99.00
7	6	26	6	15.0	1	353.0	1.50	17.40	99.00	99.00
7	6	26	7	15.0	1	346.0	2.10	19.00	99.00	99.00
7	6	26	8	15.0	1	0.0	0.00	21.00	99.00	99.00
7	6	26	9	15.0	1	0.0	0.00	22.90	99.00	99.00
7	6	26	10	15.0	1	0.0	0.00	24.60	99.00	99.00
7	6	26	11	15.0	1	0.0	0.00	26.40	99.00	99.00

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 7   6 26 12    15.0 1      0.0      0.00    28.00    99.00    99.00
 7   6 26 13    15.0 1    303.0      0.50    29.30    99.00    99.00
 7   6 26 14    15.0 1    336.0      0.50    30.10    99.00    99.00
 7   6 26 15    15.0 1      2.0      1.00    30.90    99.00    99.00
 7   6 26 16    15.0 1      0.0      0.00    31.10    99.00    99.00
 7   6 26 17    15.0 1      8.0      2.60    30.90    99.00    99.00
 7   6 26 18    15.0 1     24.0      2.60    30.10    99.00    99.00
 7   6 26 19    15.0 1      8.0      2.60    29.40    99.00    99.00
 7   6 26 20    15.0 1    307.0      2.60    28.30    99.00    99.00
 7   6 26 21    15.0 1    263.0      5.70    24.90    99.00    99.00
 7   6 26 22    15.0 1    270.0      4.60    22.10    99.00    99.00
 7   6 26 23    15.0 1    289.0      3.60    21.40    99.00    99.00
 7   6 26 24    15.0 1    333.0      3.60    20.90    99.00    99.00
 7   6 27  1    15.0 1    351.0      3.60    20.10    99.00    99.00
 7   6 27  2    15.0 1      5.0      3.10    19.40    99.00    99.00
 7   6 27  3    15.0 1      0.0      0.00    18.60    99.00    99.00
 7   6 27  4    15.0 1    358.0      1.50    18.10    99.00    99.00
 7   6 27  5    15.0 1    346.0      1.00    17.50    99.00    99.00
 7   6 27  6    15.0 1    346.0      1.50    17.30    99.00    99.00
 7   6 27  7    15.0 1    350.0      2.10    18.30    99.00    99.00
 7   6 27  8    15.0 1      0.0      0.00    19.80    99.00    99.00
 7   6 27  9    15.0 1      0.0      0.00    21.50    99.00    99.00
 7   6 27 10    15.0 1      0.0      0.00    23.30    99.00    99.00
 7   6 27 11    15.0 1      0.0      0.00    25.10    99.00    99.00
 7   6 27 12    15.0 1      0.0      0.00    26.60    99.00    99.00
 7   6 27 13    15.0 1    308.0      0.50    27.80    99.00    99.00
 7   6 27 14    15.0 1    338.0      1.00    28.60    99.00    99.00
 7   6 27 15    15.0 1      2.0      2.10    29.30    99.00    99.00
 7   6 27 16    15.0 1      0.0      0.00    29.50    99.00    99.00
 7   6 27 17    15.0 1      7.0      3.10    29.40    99.00    99.00
 7   6 27 18    15.0 1     15.0      2.60    28.90    99.00    99.00
 7   6 27 19    15.0 1      6.0      3.10    28.10    99.00    99.00
 7   6 27 20    15.0 1    352.0      3.10    27.10    99.00    99.00
 7   6 27 21    15.0 1    343.0      4.10    25.60    99.00    99.00
 7   6 27 22    15.0 1    328.0      4.10    23.80    99.00    99.00
 7   6 27 23    15.0 1    343.0      3.60    22.40    99.00    99.00
 7   6 27 24    15.0 1    345.0      3.60    21.10    99.00    99.00
 7   6 28  1    15.0 1    347.0      3.10    20.10    99.00    99.00
 7   6 28  2    15.0 1    357.0      2.60    19.40    99.00    99.00
 7   6 28  3    15.0 1      0.0      0.00    18.80    99.00    99.00
 7   6 28  4    15.0 1     15.0      1.50    18.10    99.00    99.00
 7   6 28  5    15.0 1    352.0      1.00    17.60    99.00    99.00
 7   6 28  6    15.0 1    348.0      1.00    17.40    99.00    99.00
 7   6 28  7    15.0 1    347.0      1.00    18.40    99.00    99.00
 7   6 28  8    15.0 1      0.0      0.00    20.10    99.00    99.00
 7   6 28  9    15.0 1      0.0      0.00    22.00    99.00    99.00
 7   6 28 10    15.0 1      0.0      0.00    23.80    99.00    99.00
 7   6 28 11    15.0 1      0.0      0.00    25.60    99.00    99.00
 7   6 28 12    15.0 1      0.0      0.00    27.10    99.00    99.00
 7   6 28 13    15.0 1    313.0      0.50    28.40    99.00    99.00
 7   6 28 14    15.0 1    337.0      1.00    29.40    99.00    99.00
 7   6 28 15    15.0 1      5.0      2.10    30.00    99.00    99.00
 7   6 28 16    15.0 1      0.0      0.00    30.10    99.00    99.00
 7   6 28 17    15.0 1      6.0      3.10    29.90    99.00    99.00
 7   6 28 18    15.0 1     12.0      2.60    29.40    99.00    99.00
 7   6 28 19    15.0 1     15.0      3.10    28.80    99.00    99.00
 7   6 28 20    15.0 1    354.0      2.60    27.60    99.00    99.00
 7   6 28 21    15.0 1    326.0      3.10    26.30    99.00    99.00
 7   6 28 22    15.0 1    344.0      3.60    24.60    99.00    99.00
 7   6 28 23    15.0 1    352.0      3.60    23.30    99.00    99.00
 7   6 28 24    15.0 1    348.0      3.60    22.00    99.00    99.00
 7   6 29  1    15.0 1      6.0      3.10    20.80    99.00    99.00
 7   6 29  2    15.0 1     19.0      3.10    19.90    99.00    99.00
 7   6 29  3    15.0 1     32.0      2.60    19.10    99.00    99.00
 7   6 29  4    15.0 1     32.0      2.10    18.50    99.00    99.00
 7   6 29  5    15.0 1     29.0      1.50    17.90    99.00    99.00
 7   6 29  6    15.0 1      6.0      1.50    17.80    99.00    99.00
 7   6 29  7    15.0 1      0.0      0.00    18.90    99.00    99.00
 7   6 29  8    15.0 1    338.0      0.50    20.80    99.00    99.00
 7   6 29  9    15.0 1      0.0      0.00    22.50    99.00    99.00
 7   6 29 10    15.0 1      0.0      0.00    24.10    99.00    99.00
 7   6 29 11    15.0 1      0.0      0.00    25.80    99.00    99.00
 7   6 29 12    15.0 1      0.0      0.00    27.00    99.00    99.00
 7   6 29 13    15.0 1    315.0      0.50    28.10    99.00    99.00
 7   6 29 14    15.0 1    346.0      1.00    29.10    99.00    99.00
 7   6 29 15    15.0 1      0.0      0.00    29.60    99.00    99.00
 7   6 29 16    15.0 1      5.0      3.10    30.30    99.00    99.00
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 7   6 29 17    15.0 1     0.0     0.00    30.00    99.00    99.00
 7   6 29 18    15.0 1     0.0     0.00    29.60    99.00    99.00
 7   6 29 19    15.0 1     5.0     3.60    28.50    99.00    99.00
 7   6 29 20    15.0 1   352.0     4.10    26.60    99.00    99.00
 7   6 29 21    15.0 1   339.0     4.10    24.80    99.00    99.00
 7   6 29 22    15.0 1   342.0     4.10    23.30    99.00    99.00
 7   6 29 23    15.0 1   344.0     3.60    22.30    99.00    99.00
 7   6 29 24    15.0 1   327.0     3.60    21.40    99.00    99.00
 7   6 30  1    15.0 1   338.0     3.10    20.60    99.00    99.00
 7   6 30  2    15.0 1   343.0     3.10    19.90    99.00    99.00
 7   6 30  3    15.0 1   340.0     2.60    19.10    99.00    99.00
 7   6 30  4    15.0 1   336.0     2.60    18.60    99.00    99.00
 7   6 30  5    15.0 1   338.0     2.10    18.10    99.00    99.00
 7   6 30  6    15.0 1   347.0     2.10    18.00    99.00    99.00
 7   6 30  7    15.0 1   354.0     1.50    18.80    99.00    99.00
 7   6 30  8    15.0 1     0.0     0.00    20.40    99.00    99.00
 7   6 30  9    15.0 1     0.0     0.00    22.10    99.00    99.00
 7   6 30 10    15.0 1     0.0     0.00    23.90    99.00    99.00
 7   6 30 11    15.0 1     0.0     0.00    25.80    99.00    99.00
 7   6 30 12    15.0 1     0.0     0.00    27.30    99.00    99.00
 7   6 30 13    15.0 1   314.0     0.50    28.50    99.00    99.00
 7   6 30 14    15.0 1   329.0     1.00    29.40    99.00    99.00
 7   6 30 15    15.0 1   345.0     2.10    30.00    99.00    99.00
 7   6 30 16    15.0 1     2.0     2.60    30.30    99.00    99.00
 7   6 30 17    15.0 1     0.0     0.00    30.10    99.00    99.00
 7   6 30 18    15.0 1    12.0     2.60    29.50    99.00    99.00
 7   6 30 19    15.0 1   358.0     3.60    28.50    99.00    99.00
 7   6 30 20    15.0 1   351.0     4.10    26.40    99.00    99.00
 7   6 30 21    15.0 1   339.0     4.10    24.50    99.00    99.00
 7   6 30 22    15.0 1   342.0     3.60    23.40    99.00    99.00
 7   6 30 23    15.0 1   337.0     3.60    22.40    99.00    99.00
 7   6 30 24    15.0 1   347.0     3.60    21.30    99.00    99.00
 7   7  1  1    15.0 1   348.0     3.10    20.10    99.00    99.00
 7   7  1  2    15.0 1   355.0     2.60    19.40    99.00    99.00
 7   7  1  3    15.0 1     0.0     0.00    18.60    99.00    99.00
 7   7  1  4    15.0 1     0.0     0.00    18.10    99.00    99.00
 7   7  1  5    15.0 1   341.0     0.50    17.60    99.00    99.00
 7   7  1  6    15.0 1   350.0     0.50    17.40    99.00    99.00
 7   7  1  7    15.0 1   352.0     0.50    18.40    99.00    99.00
 7   7  1  8    15.0 1     0.0     0.00    20.10    99.00    99.00
 7   7  1  9    15.0 1     0.0     0.00    22.00    99.00    99.00
 7   7  1 10    15.0 1   303.0     0.50    23.90    99.00    99.00
 7   7  1 11    15.0 1     0.0     0.00    25.80    99.00    99.00
 7   7  1 12    15.0 1   291.0     0.50    27.50    99.00    99.00
 7   7  1 13    15.0 1   332.0     1.00    28.90    99.00    99.00
 7   7  1 14    15.0 1   340.0     1.50    29.80    99.00    99.00
 7   7  1 15    15.0 1   341.0     2.10    30.40    99.00    99.00
 7   7  1 16    15.0 1   351.0     3.10    30.60    99.00    99.00
 7   7  1 17    15.0 1     4.0     3.10    30.40    99.00    99.00
 7   7  1 18    15.0 1     0.0     0.00    29.90    99.00    99.00
 7   7  1 19    15.0 1   358.0     3.60    29.00    99.00    99.00
 7   7  1 20    15.0 1   355.0     4.10    26.90    99.00    99.00
 7   7  1 21    15.0 1   340.0     4.10    24.80    99.00    99.00
 7   7  1 22    15.0 1   345.0     3.60    23.50    99.00    99.00
 7   7  1 23    15.0 1   343.0     3.60    22.10    99.00    99.00
 7   7  1 24    15.0 1   344.0     3.60    20.90    99.00    99.00
 7   7  2  1    15.0 1   350.0     3.10    19.90    99.00    99.00
 7   7  2  2    15.0 1     0.0     0.00    19.10    99.00    99.00
 7   7  2  3    15.0 1    15.0     2.10    18.60    99.00    99.00
 7   7  2  4    15.0 1    11.0     1.00    17.90    99.00    99.00
 7   7  2  5    15.0 1   340.0     0.50    17.30    99.00    99.00
 7   7  2  6    15.0 1   352.0     0.50    17.10    99.00    99.00
 7   7  2  7    15.0 1   341.0     0.50    18.10    99.00    99.00
 7   7  2  8    15.0 1     0.0     0.00    20.10    99.00    99.00
 7   7  2  9    15.0 1     0.0     0.00    21.80    99.00    99.00
 7   7  2 10    15.0 1     0.0     0.00    24.10    99.00    99.00
 7   7  2 11    15.0 1     0.0     0.00    26.10    99.00    99.00
 7   7  2 12    15.0 1     0.0     0.00    27.80    99.00    99.00
 7   7  2 13    15.0 1   314.0     0.50    29.10    99.00    99.00
 7   7  2 14    15.0 1   332.0     1.50    30.10    99.00    99.00
 7   7  2 15    15.0 1   352.0     2.60    30.80    99.00    99.00
 7   7  2 16    15.0 1   353.0     3.60    30.90    99.00    99.00
 7   7  2 17    15.0 1     0.0     0.00    30.40    99.00    99.00
 7   7  2 18    15.0 1     0.0     0.00    29.90    99.00    99.00
 7   7  2 19    15.0 1     5.0     3.10    29.10    99.00    99.00
 7   7  2 20    15.0 1   347.0     3.10    27.80    99.00    99.00
 7   7  2 21    15.0 1   343.0     3.10    26.40    99.00    99.00
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 7  7  2 22    15.0 1   329.0     3.60    25.10    99.00    99.00
 7  7  2 23    15.0 1   326.0     3.10    23.90    99.00    99.00
 7  7  2 24    15.0 1   332.0     3.10    22.90    99.00    99.00
 7  7  3  1    15.0 1   349.0     3.10    22.10    99.00    99.00
 7  7  3  2    15.0 1     0.0     0.00    21.50    99.00    99.00
 7  7  3  3    15.0 1     6.0     3.10    20.60    99.00    99.00
 7  7  3  4    15.0 1     0.0     0.00    19.90    99.00    99.00
 7  7  3  5    15.0 1   351.0     1.50    19.10    99.00    99.00
 7  7  3  6    15.0 1   338.0     1.00    18.90    99.00    99.00
 7  7  3  7    15.0 1   346.0     1.50    20.10    99.00    99.00
 7  7  3  8    15.0 1     0.0     0.00    21.60    99.00    99.00
 7  7  3  9    15.0 1     0.0     0.00    23.40    99.00    99.00
 7  7  3 10    15.0 1     0.0     0.00    25.10    99.00    99.00
 7  7  3 11    15.0 1     0.0     0.00    26.90    99.00    99.00
 7  7  3 12    15.0 1     0.0     0.00    28.50    99.00    99.00
 7  7  3 13    15.0 1     0.0     0.00    29.60    99.00    99.00
 7  7  3 14    15.0 1   306.0     0.50    30.60    99.00    99.00
 7  7  3 15    15.0 1   347.0     1.00    31.30    99.00    99.00
 7  7  3 16    15.0 1   358.0     2.10    31.60    99.00    99.00
 7  7  3 17    15.0 1    12.0     2.60    31.50    99.00    99.00
 7  7  3 18    15.0 1    17.0     2.10    31.10    99.00    99.00
 7  7  3 19    15.0 1    17.0     1.50    30.30    99.00    99.00
 7  7  3 20    15.0 1    19.0     1.00    28.90    99.00    99.00
 7  7  3 21    15.0 1     0.0     0.00    27.30    99.00    99.00
 7  7  3 22    15.0 1     0.0     0.00    25.80    99.00    99.00
 7  7  3 23    15.0 1     0.0     0.00    24.50    99.00    99.00
 7  7  3 24    15.0 1     0.0     0.00    23.50    99.00    99.00
 7  7  4  1    15.0 1     0.0     0.00    22.80    99.00    99.00
 7  7  4  2    15.0 1   359.0     1.50    22.30    99.00    99.00
 7  7  4  3    15.0 1    10.0     2.60    21.60    99.00    99.00
 7  7  4  4    15.0 1    11.0     2.60    20.90    99.00    99.00
 7  7  4  5    15.0 1     6.0     2.10    20.10    99.00    99.00
 7  7  4  6    15.0 1     0.0     0.00    19.80    99.00    99.00
 7  7  4  7    15.0 1   351.0     2.10    21.30    99.00    99.00
 7  7  4  8    15.0 1     0.0     0.00    23.30    99.00    99.00
 7  7  4  9    15.0 1     0.0     0.00    25.10    99.00    99.00
 7  7  4 10    15.0 1     0.0     0.00    27.00    99.00    99.00
 7  7  4 11    15.0 1     0.0     0.00    29.40    99.00    99.00
 7  7  4 12    15.0 1     0.0     0.00    31.50    99.00    99.00
 7  7  4 13    15.0 1     0.0     0.00    33.10    99.00    99.00
 7  7  4 14    15.0 1     0.0     0.00    34.40    99.00    99.00
 7  7  4 15    15.0 1   343.0     0.50    35.10    99.00    99.00
 7  7  4 16    15.0 1    15.0     2.60    35.40    99.00    99.00
 7  7  4 17    15.0 1    18.0     2.60    34.60    99.00    99.00
 7  7  4 18    15.0 1    34.0     2.60    34.10    99.00    99.00
 7  7  4 19    15.0 1    30.0     2.10    33.10    99.00    99.00
 7  7  4 20    15.0 1   277.0     0.50    31.60    99.00    99.00
 7  7  4 21    15.0 1   285.0     4.10    30.30    99.00    99.00
 7  7  4 22    15.0 1   294.0     4.10    26.60    99.00    99.00
 7  7  4 23    15.0 1   297.0     3.60    25.40    99.00    99.00
 7  7  4 24    15.0 1   321.0     3.10    24.60    99.00    99.00
 7  7  5  1    15.0 1   346.0     3.10    24.10    99.00    99.00
 7  7  5  2    15.0 1     0.0     0.00    23.50    99.00    99.00
 7  7  5  3    15.0 1     4.0     2.60    23.10    99.00    99.00
 7  7  5  4    15.0 1   342.0     1.50    22.60    99.00    99.00
 7  7  5  5    15.0 1   307.0     1.50    22.30    99.00    99.00
 7  7  5  6    15.0 1   306.0     2.10    22.00    99.00    99.00
 7  7  5  7    15.0 1   323.0     1.50    22.60    99.00    99.00
 7  7  5  8    15.0 1   318.0     1.00    23.80    99.00    99.00
 7  7  5  9    15.0 1     0.0     0.00    25.60    99.00    99.00
 7  7  5 10    15.0 1     0.0     0.00    27.90    99.00    99.00
 7  7  5 11    15.0 1     0.0     0.00    30.30    99.00    99.00
 7  7  5 12    15.0 1     0.0     0.00    32.10    99.00    99.00
 7  7  5 13    15.0 1     8.0     0.50    33.80    99.00    99.00
 7  7  5 14    15.0 1     0.0     0.00    35.10    99.00    99.00
 7  7  5 15    15.0 1    15.0     1.00    36.00    99.00    99.00
 7  7  5 16    15.0 1    15.0     2.10    36.30    99.00    99.00
 7  7  5 17    15.0 1    24.0     2.10    35.80    99.00    99.00
 7  7  5 18    15.0 1    17.0     2.10    35.40    99.00    99.00
 7  7  5 19    15.0 1   331.0     2.10    34.50    99.00    99.00
 7  7  5 20    15.0 1   303.0     5.10    32.60    99.00    99.00
 7  7  5 21    15.0 1   281.0     5.10    27.50    99.00    99.00
 7  7  5 22    15.0 1   276.0     4.60    25.10    99.00    99.00
 7  7  5 23    15.0 1   296.0     3.10    24.00    99.00    99.00
 7  7  5 24    15.0 1   334.0     2.60    23.50    99.00    99.00
 7  7  6  1    15.0 1     9.0     2.10    23.00    99.00    99.00
 7  7  6  2    15.0 1    29.0     1.50    22.50    99.00    99.00
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 7  7  6  3    15.0 1    14.0     0.50    22.00    99.00    99.00
 7  7  6  4    15.0 1     0.0     0.00    21.60    99.00    99.00
 7  7  6  5    15.0 1   269.0     0.50    21.50    99.00    99.00
 7  7  6  6    15.0 1     0.0     0.00    21.40    99.00    99.00
 7  7  6  7    15.0 1   303.0     1.00    23.40    99.00    99.00
 7  7  6  8    15.0 1     0.0     0.00    25.30    99.00    99.00
 7  7  6  9    15.0 1     0.0     0.00    27.50    99.00    99.00
 7  7  6 10    15.0 1     0.0     0.00    29.40    99.00    99.00
 7  7  6 11    15.0 1     0.0     0.00    31.10    99.00    99.00
 7  7  6 12    15.0 1   357.0     0.50    32.90    99.00    99.00
 7  7  6 13    15.0 1     0.0     0.00    34.40    99.00    99.00
 7  7  6 14    15.0 1     0.0     0.00    35.50    99.00    99.00
 7  7  6 15    15.0 1     8.0     2.10    36.10    99.00    99.00
 7  7  6 16    15.0 1    14.0     2.60    36.50    99.00    99.00
 7  7  6 17    15.0 1     8.0     2.10    36.00    99.00    99.00
 7  7  6 18    15.0 1   342.0     3.10    35.60    99.00    99.00
 7  7  6 19    15.0 1   315.0     5.10    33.40    99.00    99.00
 7  7  6 20    15.0 1   290.0     5.10    28.10    99.00    99.00
 7  7  6 21    15.0 1   292.0     5.10    25.50    99.00    99.00
 7  7  6 22    15.0 1   305.0     4.10    23.60    99.00    99.00
 7  7  6 23    15.0 1   308.0     3.60    22.60    99.00    99.00
 7  7  6 24    15.0 1     5.0     2.60    22.10    99.00    99.00
 7  7  7  1    15.0 1    34.0     3.10    21.50    99.00    99.00
 7  7  7  2    15.0 1     5.0     1.50    20.90    99.00    99.00
 7  7  7  3    15.0 1   289.0     2.10    20.30    99.00    99.00
 7  7  7  4    15.0 1   287.0     2.60    19.60    99.00    99.00
 7  7  7  5    15.0 1   304.0     3.10    19.00    99.00    99.00
 7  7  7  6    15.0 1   302.0     2.60    19.30    99.00    99.00
 7  7  7  7    15.0 1   297.0     2.10    20.60    99.00    99.00
 7  7  7  8    15.0 1     0.0     0.00    22.80    99.00    99.00
 7  7  7  9    15.0 1     0.0     0.00    24.60    99.00    99.00
 7  7  7 10    15.0 1     0.0     0.00    26.60    99.00    99.00
 7  7  7 11    15.0 1     0.0     0.00    28.60    99.00    99.00
 7  7  7 12    15.0 1     0.0     0.00    30.40    99.00    99.00
 7  7  7 13    15.0 1     0.0     0.00    31.80    99.00    99.00
 7  7  7 14    15.0 1   347.0     0.50    32.90    99.00    99.00
 7  7  7 15    15.0 1    10.0     1.00    33.60    99.00    99.00
 7  7  7 16    15.0 1     9.0     1.50    34.00    99.00    99.00
 7  7  7 17    15.0 1    20.0     2.60    33.60    99.00    99.00
 7  7  7 18    15.0 1    25.0     2.60    32.90    99.00    99.00
 7  7  7 19    15.0 1    14.0     3.10    32.00    99.00    99.00
 7  7  7 20    15.0 1   306.0     3.60    30.50    99.00    99.00
 7  7  7 21    15.0 1   279.0     5.10    26.10    99.00    99.00
 7  7  7 22    15.0 1   269.0     5.10    23.60    99.00    99.00
 7  7  7 23    15.0 1   268.0     4.10    22.50    99.00    99.00
 7  7  7 24    15.0 1   286.0     3.10    21.60    99.00    99.00
 7  7  8  1    15.0 1   300.0     2.60    21.10    99.00    99.00
 7  7  8  2    15.0 1   312.0     2.60    20.80    99.00    99.00
 7  7  8  3    15.0 1   316.0     2.60    20.60    99.00    99.00
 7  7  8  4    15.0 1   316.0     2.60    20.30    99.00    99.00
 7  7  8  5    15.0 1   318.0     2.10    20.10    99.00    99.00
 7  7  8  6    15.0 1   315.0     2.10    20.10    99.00    99.00
 7  7  8  7    15.0 1   300.0     2.10    21.40    99.00    99.00
 7  7  8  8    15.0 1   304.0     0.50    23.10    99.00    99.00
 7  7  8  9    15.0 1     0.0     0.00    24.90    99.00    99.00
 7  7  8 10    15.0 1     0.0     0.00    26.80    99.00    99.00
 7  7  8 11    15.0 1     0.0     0.00    28.60    99.00    99.00
 7  7  8 12    15.0 1     0.0     0.00    30.50    99.00    99.00
 7  7  8 13    15.0 1     0.0     0.00    31.90    99.00    99.00
 7  7  8 14    15.0 1   327.0     0.50    33.00    99.00    99.00
 7  7  8 15    15.0 1   355.0     0.50    33.80    99.00    99.00
 7  7  8 16    15.0 1     3.0     1.00    34.10    99.00    99.00
 7  7  8 17    15.0 1   353.0     2.10    34.10    99.00    99.00
 7  7  8 18    15.0 1   316.0     2.60    33.60    99.00    99.00
 7  7  8 19    15.0 1   289.0     5.10    29.60    99.00    99.00
 7  7  8 20    15.0 1   277.0     5.10    25.10    99.00    99.00
 7  7  8 21    15.0 1   281.0     4.60    23.00    99.00    99.00
 7  7  8 22    15.0 1   288.0     3.60    21.60    99.00    99.00
 7  7  8 23    15.0 1   308.0     3.10    20.90    99.00    99.00
 7  7  8 24    15.0 1   343.0     3.10    20.40    99.00    99.00
 7  7  9  1    15.0 1     0.0     0.00    19.90    99.00    99.00
 7  7  9  2    15.0 1    12.0     3.60    19.10    99.00    99.00
 7  7  9  3    15.0 1    12.0     3.60    18.50    99.00    99.00
 7  7  9  4    15.0 1    10.0     3.60    18.00    99.00    99.00
 7  7  9  5    15.0 1     0.0     0.00    17.50    99.00    99.00
 7  7  9  6    15.0 1   347.0     2.60    17.90    99.00    99.00
 7  7  9  7    15.0 1   341.0     2.10    19.50    99.00    99.00
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 7   7   9   8    15.0 1   354.0     0.50    21.50    99.00    99.00
 7   7   9   9    15.0 1     0.0     0.00    23.50    99.00    99.00
 7   7   9  10    15.0 1     0.0     0.00    25.60    99.00    99.00
 7   7   9  11    15.0 1     0.0     0.00    27.60    99.00    99.00
 7   7   9  12    15.0 1     0.0     0.00    29.40    99.00    99.00
 7   7   9  13    15.0 1     0.0     0.00    30.90    99.00    99.00
 7   7   9  14    15.0 1   332.0     0.50    32.00    99.00    99.00
 7   7   9  15    15.0 1   318.0     0.50    32.60    99.00    99.00
 7   7   9  16    15.0 1   346.0     1.50    33.10    99.00    99.00
 7   7   9  17    15.0 1     4.0     2.10    32.90    99.00    99.00
 7   7   9  18    15.0 1     0.0     0.00    32.30    99.00    99.00
 7   7   9  19    15.0 1   336.0     4.10    30.90    99.00    99.00
 7   7   9  20    15.0 1   305.0     5.10    26.40    99.00    99.00
 7   7   9  21    15.0 1   281.0     5.70    23.00    99.00    99.00
 7   7   9  22    15.0 1   284.0     4.60    21.50    99.00    99.00
 7   7   9  23    15.0 1   290.0     4.10    20.40    99.00    99.00
 7   7   9  24    15.0 1   304.0     3.60    19.90    99.00    99.00
 7   7  10   1    15.0 1   335.0     2.60    19.80    99.00    99.00
 7   7  10   2    15.0 1    11.0     3.10    19.60    99.00    99.00
 7   7  10   3    15.0 1    12.0     3.10    19.40    99.00    99.00
 7   7  10   4    15.0 1     0.0     0.00    19.10    99.00    99.00
 7   7  10   5    15.0 1   351.0     2.10    19.00    99.00    99.00
 7   7  10   6    15.0 1   359.0     1.50    19.10    99.00    99.00
 7   7  10   7    15.0 1   345.0     1.50    19.80    99.00    99.00
 7   7  10   8    15.0 1   330.0     1.00    20.80    99.00    99.00
 7   7  10   9    15.0 1     0.0     0.00    22.50    99.00    99.00
 7   7  10  10    15.0 1     0.0     0.00    24.10    99.00    99.00
 7   7  10  11    15.0 1     0.0     0.00    26.10    99.00    99.00
 7   7  10  12    15.0 1     0.0     0.00    27.90    99.00    99.00
 7   7  10  13    15.0 1     0.0     0.00    29.30    99.00    99.00
 7   7  10  14    15.0 1     0.0     0.00    30.10    99.00    99.00
 7   7  10  15    15.0 1    46.0     1.50    30.30    99.00    99.00
 7   7  10  16    15.0 1    60.0     2.10    29.80    99.00    99.00
 7   7  10  17    15.0 1    52.0     2.60    29.30    99.00    99.00
 7   7  10  18    15.0 1     0.0     0.00    28.80    99.00    99.00
 7   7  10  19    15.0 1   302.0     4.10    27.60    99.00    99.00
 7   7  10  20    15.0 1   294.0     4.10    24.60    99.00    99.00
 7   7  10  21    15.0 1   284.0     4.60    22.30    99.00    99.00
 7   7  10  22    15.0 1   299.0     3.60    20.90    99.00    99.00
 7   7  10  23    15.0 1   321.0     3.60    20.00    99.00    99.00
 7   7  10  24    15.0 1   304.0     4.10    19.00    99.00    99.00
 7   7  11   1    15.0 1   306.0     3.60    18.40    99.00    99.00
 7   7  11   2    15.0 1   342.0     2.60    18.10    99.00    99.00
 7   7  11   3    15.0 1    31.0     2.10    17.90    99.00    99.00
 7   7  11   4    15.0 1    54.0     1.50    17.90    99.00    99.00
 7   7  11   5    15.0 1    51.0     1.00    17.60    99.00    99.00
 7   7  11   6    15.0 1    37.0     0.50    17.60    99.00    99.00
 7   7  11   7    15.0 1   315.0     0.50    19.40    99.00    99.00
 7   7  11   8    15.0 1   331.0     0.50    21.40    99.00    99.00
 7   7  11   9    15.0 1   318.0     0.50    23.10    99.00    99.00
 7   7  11  10    15.0 1   331.0     1.00    24.90    99.00    99.00
 7   7  11  11    15.0 1   345.0     0.50    26.50    99.00    99.00
 7   7  11  12    15.0 1   334.0     1.00    27.90    99.00    99.00
 7   7  11  13    15.0 1   338.0     1.50    29.10    99.00    99.00
 7   7  11  14    15.0 1   354.0     2.10    30.10    99.00    99.00
 7   7  11  15    15.0 1   354.0     3.10    30.60    99.00    99.00
 7   7  11  16    15.0 1   342.0     4.10    30.90    99.00    99.00
 7   7  11  17    15.0 1   319.0     3.10    30.10    99.00    99.00
 7   7  11  18    15.0 1   289.0     4.10    28.50    99.00    99.00
 7   7  11  19    15.0 1   284.0     4.60    25.00    99.00    99.00
 7   7  11  20    15.0 1   268.0     4.60    22.30    99.00    99.00
 7   7  11  21    15.0 1   270.0     4.60    20.40    99.00    99.00
 7   7  11  22    15.0 1   282.0     4.10    19.10    99.00    99.00
 7   7  11  23    15.0 1   283.0     2.60    18.50    99.00    99.00
 7   7  11  24    15.0 1   316.0     1.00    18.30    99.00    99.00
 7   7  12   1    15.0 1    43.0     0.50    18.00    99.00    99.00
 7   7  12   2    15.0 1     0.0     0.00    17.60    99.00    99.00
 7   7  12   3    15.0 1   243.0     0.50    17.40    99.00    99.00
 7   7  12   4    15.0 1   234.0     0.50    16.90    99.00    99.00
 7   7  12   5    15.0 1     0.0     0.00    16.40    99.00    99.00
 7   7  12   6    15.0 1     0.0     0.00    16.10    99.00    99.00
 7   7  12   7    15.0 1     0.0     0.00    18.40    99.00    99.00
 7   7  12   8    15.0 1     0.0     0.00    19.90    99.00    99.00
 7   7  12   9    15.0 1     0.0     0.00    21.60    99.00    99.00
 7   7  12  10    15.0 1     0.0     0.00    23.40    99.00    99.00
 7   7  12  11    15.0 1     0.0     0.00    25.10    99.00    99.00
 7   7  12  12    15.0 1     0.0     0.00    26.80    99.00    99.00
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 7   7 12 13     15.0 1      0.0      0.00     28.00     99.00     99.00
 7   7 12 14     15.0 1    327.0      0.50     29.00     99.00     99.00
 7   7 12 15     15.0 1      0.0      0.00     29.60     99.00     99.00
 7   7 12 16     15.0 1     16.0      1.50     30.10     99.00     99.00
 7   7 12 17     15.0 1     19.0      2.60     30.00     99.00     99.00
 7   7 12 18     15.0 1     33.0      2.60     29.40     99.00     99.00
 7   7 12 19     15.0 1     20.0      2.10     28.60     99.00     99.00
 7   7 12 20     15.0 1    284.0      4.10     26.60     99.00     99.00
 7   7 12 21     15.0 1    268.0      5.10     22.00     99.00     99.00
 7   7 12 22     15.0 1    273.0      4.60     20.10     99.00     99.00
 7   7 12 23     15.0 1    292.0      3.60     19.10     99.00     99.00
 7   7 12 24     15.0 1    335.0      2.60     18.80     99.00     99.00
 7   7 13  1     15.0 1    349.0      3.10     18.60     99.00     99.00
 7   7 13  2     15.0 1      0.0      0.00     18.30     99.00     99.00
 7   7 13  3     15.0 1      0.0      0.00     17.90     99.00     99.00
 7   7 13  4     15.0 1      6.0      0.50     17.40     99.00     99.00
 7   7 13  5     15.0 1     29.0      0.50     16.80     99.00     99.00
 7   7 13  6     15.0 1     38.0      0.50     16.60     99.00     99.00
 7   7 13  7     15.0 1     20.0      1.00     17.60     99.00     99.00
 7   7 13  8     15.0 1      0.0      0.00     19.30     99.00     99.00
 7   7 13  9     15.0 1      0.0      0.00     21.00     99.00     99.00
 7   7 13 10     15.0 1      0.0      0.00     22.90     99.00     99.00
 7   7 13 11     15.0 1      0.0      0.00     24.60     99.00     99.00
 7   7 13 12     15.0 1      0.0      0.00     26.40     99.00     99.00
 7   7 13 13     15.0 1    322.0      0.50     27.60     99.00     99.00
 7   7 13 14     15.0 1    342.0      0.50     28.60     99.00     99.00
 7   7 13 15     15.0 1    347.0      1.00     29.30     99.00     99.00
 7   7 13 16     15.0 1    357.0      1.50     29.60     99.00     99.00
 7   7 13 17     15.0 1     14.0      2.10     29.60     99.00     99.00
 7   7 13 18     15.0 1     17.0      2.10     29.30     99.00     99.00
 7   7 13 19     15.0 1     32.0      2.10     28.50     99.00     99.00
 7   7 13 20     15.0 1     20.0      1.50     27.10     99.00     99.00
 7   7 13 21     15.0 1    338.0      0.50     25.80     99.00     99.00
 7   7 13 22     15.0 1    279.0      3.10     24.10     99.00     99.00
 7   7 13 23     15.0 1    277.0      3.60     22.10     99.00     99.00
 7   7 13 24     15.0 1    288.0      3.60     21.40     99.00     99.00
 7   7 14  1     15.0 1    318.0      3.60     20.90     99.00     99.00
 7   7 14  2     15.0 1    353.0      3.10     20.30     99.00     99.00
 7   7 14  3     15.0 1     24.0      2.60     19.60     99.00     99.00
 7   7 14  4     15.0 1     31.0      2.60     19.00     99.00     99.00
 7   7 14  5     15.0 1     18.0      2.10     18.40     99.00     99.00
 7   7 14  6     15.0 1     23.0      1.50     18.10     99.00     99.00
 7   7 14  7     15.0 1     12.0      1.50     19.10     99.00     99.00
 7   7 14  8     15.0 1      0.0      0.00     21.00     99.00     99.00
 7   7 14  9     15.0 1      0.0      0.00     22.80     99.00     99.00
 7   7 14 10     15.0 1      0.0      0.00     24.60     99.00     99.00
 7   7 14 11     15.0 1      0.0      0.00     26.50     99.00     99.00
 7   7 14 12     15.0 1      0.0      0.00     28.10     99.00     99.00
 7   7 14 13     15.0 1      0.0      0.00     29.50     99.00     99.00
 7   7 14 14     15.0 1      0.0      0.00     30.50     99.00     99.00
 7   7 14 15     15.0 1    334.0      0.50     31.10     99.00     99.00
 7   7 14 16     15.0 1      6.0      1.50     32.10     99.00     99.00
 7   7 14 17     15.0 1     18.0      2.10     32.10     99.00     99.00
 7   7 14 18     15.0 1     27.0      2.10     31.60     99.00     99.00
 7   7 14 19     15.0 1     25.0      2.60     30.80     99.00     99.00
 7   7 14 20     15.0 1    351.0      1.50     29.60     99.00     99.00
 7   7 14 21     15.0 1    285.0      4.60     27.40     99.00     99.00
 7   7 14 22     15.0 1    266.0      5.10     23.60     99.00     99.00
 7   7 14 23     15.0 1    276.0      4.60     22.30     99.00     99.00
 7   7 14 24     15.0 1    280.0      3.10     21.90     99.00     99.00
 7   7 15  1     15.0 1    300.0      3.10     22.00     99.00     99.00
 7   7 15  2     15.0 1    334.0      2.60     22.10     99.00     99.00
 7   7 15  3     15.0 1    358.0      1.50     21.80     99.00     99.00
 7   7 15  4     15.0 1     28.0      1.50     21.30     99.00     99.00
 7   7 15  5     15.0 1     34.0      1.00     20.80     99.00     99.00
 7   7 15  6     15.0 1      8.0      1.00     20.50     99.00     99.00
 7   7 15  7     15.0 1     14.0      1.50     21.40     99.00     99.00
 7   7 15  8     15.0 1      0.0      0.00     23.10     99.00     99.00
 7   7 15  9     15.0 1      0.0      0.00     24.60     99.00     99.00
 7   7 15 10     15.0 1      0.0      0.00     26.30     99.00     99.00
 7   7 15 11     15.0 1      0.0      0.00     28.00     99.00     99.00
 7   7 15 12     15.0 1      0.0      0.00     29.30     99.00     99.00
 7   7 15 13     15.0 1      0.0      0.00     30.40     99.00     99.00
 7   7 15 14     15.0 1      0.0      0.00     31.30     99.00     99.00
 7   7 15 15     15.0 1     18.0      1.00     31.90     99.00     99.00
 7   7 15 16     15.0 1     18.0      2.10     32.10     99.00     99.00
 7   7 15 17     15.0 1     18.0      2.60     32.10     99.00     99.00
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7	7	15	18	15.0	1	21.0	2.10	31.60	99.00	99.00
7	7	15	19	15.0	1	22.0	2.60	30.90	99.00	99.00
7	7	15	20	15.0	1	4.0	2.10	29.60	99.00	99.00
7	7	15	21	15.0	1	279.0	3.60	28.40	99.00	99.00
7	7	15	22	15.0	1	273.0	5.10	24.60	99.00	99.00
7	7	15	23	15.0	1	272.0	4.60	22.80	99.00	99.00
7	7	15	24	15.0	1	286.0	3.60	22.40	99.00	99.00
7	7	16	1	15.0	1	316.0	3.10	22.30	99.00	99.00
7	7	16	2	15.0	1	350.0	3.10	21.90	99.00	99.00
7	7	16	3	15.0	1	10.0	3.10	21.30	99.00	99.00
7	7	16	4	15.0	1	6.0	2.60	20.60	99.00	99.00
7	7	16	5	15.0	1	14.0	2.10	19.90	99.00	99.00
7	7	16	6	15.0	1	10.0	2.10	19.50	99.00	99.00
7	7	16	7	15.0	1	15.0	2.10	20.10	99.00	99.00
7	7	16	8	15.0	1	350.0	1.00	21.90	99.00	99.00
7	7	16	9	15.0	1	334.0	0.50	23.50	99.00	99.00
7	7	16	10	15.0	1	317.0	0.50	25.10	99.00	99.00
7	7	16	11	15.0	1	334.0	0.50	26.60	99.00	99.00
7	7	16	12	15.0	1	346.0	1.00	28.10	99.00	99.00
7	7	16	13	15.0	1	349.0	1.00	29.50	99.00	99.00
7	7	16	14	15.0	1	4.0	2.10	30.30	99.00	99.00
7	7	16	15	15.0	1	4.0	2.60	30.80	99.00	99.00
7	7	16	16	15.0	1	0.0	0.00	30.90	99.00	99.00
7	7	16	17	15.0	1	13.0	3.60	30.60	99.00	99.00
7	7	16	18	15.0	1	0.0	0.00	30.10	99.00	99.00
7	7	16	19	15.0	1	338.0	4.10	28.50	99.00	99.00
7	7	16	20	15.0	1	306.0	4.10	26.50	99.00	99.00
7	7	16	21	15.0	1	286.0	4.10	24.60	99.00	99.00
7	7	16	22	15.0	1	289.0	3.60	23.00	99.00	99.00
7	7	16	23	15.0	1	305.0	3.10	21.80	99.00	99.00
7	7	16	24	15.0	1	317.0	3.10	20.80	99.00	99.00
7	7	17	1	15.0	1	326.0	2.60	20.10	99.00	99.00
7	7	17	2	15.0	1	338.0	2.60	19.40	99.00	99.00
7	7	17	3	15.0	1	350.0	2.10	18.90	99.00	99.00
7	7	17	4	15.0	1	359.0	2.10	18.40	99.00	99.00
7	7	17	5	15.0	1	11.0	1.50	17.80	99.00	99.00
7	7	17	6	15.0	1	13.0	2.10	17.50	99.00	99.00
7	7	17	7	15.0	1	15.0	1.50	18.10	99.00	99.00
7	7	17	8	15.0	1	0.0	0.00	19.40	99.00	99.00
7	7	17	9	15.0	1	0.0	0.00	21.10	99.00	99.00
7	7	17	10	15.0	1	0.0	0.00	22.80	99.00	99.00
7	7	17	11	15.0	1	0.0	0.00	24.60	99.00	99.00
7	7	17	12	15.0	1	0.0	0.00	26.30	99.00	99.00
7	7	17	13	15.0	1	0.0	0.00	27.60	99.00	99.00
7	7	17	14	15.0	1	0.0	0.00	28.60	99.00	99.00
7	7	17	15	15.0	1	6.0	1.00	29.40	99.00	99.00
7	7	17	16	15.0	1	7.0	1.50	29.60	99.00	99.00
7	7	17	17	15.0	1	16.0	2.60	29.60	99.00	99.00
7	7	17	18	15.0	1	16.0	2.60	29.00	99.00	99.00
7	7	17	19	15.0	1	355.0	3.10	28.00	99.00	99.00
7	7	17	20	15.0	1	292.0	4.60	26.10	99.00	99.00
7	7	17	21	15.0	1	272.0	5.70	22.30	99.00	99.00
7	7	17	22	15.0	1	270.0	5.10	20.50	99.00	99.00
7	7	17	23	15.0	1	268.0	4.10	19.60	99.00	99.00
7	7	17	24	15.0	1	283.0	4.10	18.80	99.00	99.00
7	7	18	1	15.0	1	303.0	3.10	18.40	99.00	99.00
7	7	18	2	15.0	1	312.0	2.60	18.10	99.00	99.00
7	7	18	3	15.0	1	332.0	2.10	17.90	99.00	99.00
7	7	18	4	15.0	1	331.0	1.50	17.60	99.00	99.00
7	7	18	5	15.0	1	344.0	1.50	17.10	99.00	99.00
7	7	18	6	15.0	1	327.0	1.50	17.30	99.00	99.00
7	7	18	7	15.0	1	296.0	2.10	18.60	99.00	99.00
7	7	18	8	15.0	1	0.0	0.00	20.10	99.00	99.00
7	7	18	9	15.0	1	0.0	0.00	21.60	99.00	99.00
7	7	18	10	15.0	1	0.0	0.00	23.30	99.00	99.00
7	7	18	11	15.0	1	0.0	0.00	24.60	99.00	99.00
7	7	18	12	15.0	1	0.0	0.00	26.10	99.00	99.00
7	7	18	13	15.0	1	0.0	0.00	27.30	99.00	99.00
7	7	18	14	15.0	1	345.0	0.50	28.30	99.00	99.00
7	7	18	15	15.0	1	355.0	1.50	28.90	99.00	99.00
7	7	18	16	15.0	1	3.0	2.60	29.00	99.00	99.00
7	7	18	17	15.0	1	0.0	0.00	28.80	99.00	99.00
7	7	18	18	15.0	1	14.0	2.60	28.30	99.00	99.00
7	7	18	19	15.0	1	14.0	3.60	27.10	99.00	99.00
7	7	18	20	15.0	1	4.0	3.60	25.60	99.00	99.00
7	7	18	21	15.0	1	341.0	4.10	24.10	99.00	99.00
7	7	18	22	15.0	1	325.0	3.60	22.60	99.00	99.00

7	7	18	23	15.0	1	317.0	3.60	21.80	99.00	99.00
7	7	18	24	15.0	1	317.0	3.60	20.60	99.00	99.00
7	7	19	1	15.0	1	334.0	3.60	19.60	99.00	99.00
7	7	19	2	15.0	1	335.0	2.60	18.90	99.00	99.00
7	7	19	3	15.0	1	328.0	2.10	18.40	99.00	99.00
7	7	19	4	15.0	1	317.0	1.50	18.00	99.00	99.00
7	7	19	5	15.0	1	325.0	1.00	17.50	99.00	99.00
7	7	19	6	15.0	1	343.0	1.00	17.10	99.00	99.00
7	7	19	7	15.0	1	352.0	2.10	18.00	99.00	99.00
7	7	19	8	15.0	1	333.0	0.50	19.40	99.00	99.00
7	7	19	9	15.0	1	0.0	0.00	21.10	99.00	99.00
7	7	19	10	15.0	1	0.0	0.00	22.80	99.00	99.00
7	7	19	11	15.0	1	0.0	0.00	24.30	99.00	99.00
7	7	19	12	15.0	1	0.0	0.00	25.60	99.00	99.00
7	7	19	13	15.0	1	306.0	0.50	26.60	99.00	99.00
7	7	19	14	15.0	1	340.0	0.50	27.60	99.00	99.00
7	7	19	15	15.0	1	355.0	1.50	28.30	99.00	99.00
7	7	19	16	15.0	1	0.0	0.00	28.40	99.00	99.00
7	7	19	17	15.0	1	0.0	0.00	28.40	99.00	99.00
7	7	19	18	15.0	1	11.0	2.60	28.00	99.00	99.00
7	7	19	19	15.0	1	358.0	3.60	26.90	99.00	99.00
7	7	19	20	15.0	1	347.0	3.60	25.10	99.00	99.00
7	7	19	21	15.0	1	330.0	3.60	23.80	99.00	99.00
7	7	19	22	15.0	1	316.0	3.60	22.60	99.00	99.00
7	7	19	23	15.0	1	314.0	3.60	21.60	99.00	99.00
7	7	19	24	15.0	1	324.0	3.10	20.60	99.00	99.00
7	7	20	1	15.0	1	331.0	3.10	19.60	99.00	99.00
7	7	20	2	15.0	1	348.0	2.60	19.10	99.00	99.00
7	7	20	3	15.0	1	360.0	2.10	18.60	99.00	99.00
7	7	20	4	15.0	1	12.0	1.50	18.00	99.00	99.00
7	7	20	5	15.0	1	25.0	1.50	17.40	99.00	99.00
7	7	20	6	15.0	1	20.0	1.00	17.10	99.00	99.00
7	7	20	7	15.0	1	0.0	0.00	18.10	99.00	99.00
7	7	20	8	15.0	1	352.0	0.50	19.40	99.00	99.00
7	7	20	9	15.0	1	0.0	0.00	21.00	99.00	99.00
7	7	20	10	15.0	1	0.0	0.00	22.60	99.00	99.00
7	7	20	11	15.0	1	0.0	0.00	24.50	99.00	99.00
7	7	20	12	15.0	1	0.0	0.00	26.10	99.00	99.00
7	7	20	13	15.0	1	328.0	0.50	27.10	99.00	99.00
7	7	20	14	15.0	1	351.0	1.00	28.10	99.00	99.00
7	7	20	15	15.0	1	0.0	0.00	28.80	99.00	99.00
7	7	20	16	15.0	1	12.0	2.10	29.00	99.00	99.00
7	7	20	17	15.0	1	7.0	3.10	28.90	99.00	99.00
7	7	20	18	15.0	1	14.0	2.60	28.40	99.00	99.00
7	7	20	19	15.0	1	13.0	3.10	27.50	99.00	99.00
7	7	20	20	15.0	1	4.0	3.10	26.40	99.00	99.00
7	7	20	21	15.0	1	345.0	2.60	25.30	99.00	99.00
7	7	20	22	15.0	1	331.0	3.10	24.10	99.00	99.00
7	7	20	23	15.0	1	335.0	3.60	22.80	99.00	99.00
7	7	20	24	15.0	1	334.0	3.60	21.60	99.00	99.00
7	7	21	1	15.0	1	338.0	3.10	20.90	99.00	99.00
7	7	21	2	15.0	1	347.0	3.10	20.10	99.00	99.00
7	7	21	3	15.0	1	353.0	2.60	19.50	99.00	99.00
7	7	21	4	15.0	1	352.0	2.10	18.90	99.00	99.00
7	7	21	5	15.0	1	355.0	1.50	18.40	99.00	99.00
7	7	21	6	15.0	1	344.0	1.00	18.10	99.00	99.00
7	7	21	7	15.0	1	3.0	1.50	19.40	99.00	99.00
7	7	21	8	15.0	1	0.0	0.00	21.40	99.00	99.00
7	7	21	9	15.0	1	0.0	0.00	23.40	99.00	99.00
7	7	21	10	15.0	1	0.0	0.00	25.30	99.00	99.00
7	7	21	11	15.0	1	0.0	0.00	27.10	99.00	99.00
7	7	21	12	15.0	1	0.0	0.00	28.60	99.00	99.00
7	7	21	13	15.0	1	318.0	0.50	29.80	99.00	99.00
7	7	21	14	15.0	1	345.0	1.00	30.60	99.00	99.00
7	7	21	15	15.0	1	5.0	1.50	31.10	99.00	99.00
7	7	21	16	15.0	1	0.0	0.00	31.40	99.00	99.00
7	7	21	17	15.0	1	0.0	0.00	31.10	99.00	99.00
7	7	21	18	15.0	1	11.0	2.60	30.60	99.00	99.00
7	7	21	19	15.0	1	8.0	3.10	29.80	99.00	99.00
7	7	21	20	15.0	1	359.0	2.60	28.50	99.00	99.00
7	7	21	21	15.0	1	316.0	1.50	27.50	99.00	99.00
7	7	21	22	15.0	1	275.0	3.10	26.10	99.00	99.00
7	7	21	23	15.0	1	268.0	3.10	24.60	99.00	99.00
7	7	21	24	15.0	1	277.0	3.10	23.80	99.00	99.00
7	7	22	1	15.0	1	299.0	3.10	23.10	99.00	99.00
7	7	22	2	15.0	1	319.0	3.60	22.60	99.00	99.00
7	7	22	3	15.0	1	326.0	3.10	21.90	99.00	99.00

7	7	22	4	15.0	1	337.0	2.60	21.10	99.00	99.00
7	7	22	5	15.0	1	340.0	2.10	20.60	99.00	99.00
7	7	22	6	15.0	1	349.0	1.00	20.40	99.00	99.00
7	7	22	7	15.0	1	346.0	2.60	21.60	99.00	99.00
7	7	22	8	15.0	1	360.0	0.50	23.50	99.00	99.00
7	7	22	9	15.0	1	0.0	0.00	25.30	99.00	99.00
7	7	22	10	15.0	1	0.0	0.00	27.00	99.00	99.00
7	7	22	11	15.0	1	0.0	0.00	28.60	99.00	99.00
7	7	22	12	15.0	1	0.0	0.00	29.80	99.00	99.00
7	7	22	13	15.0	1	0.0	0.00	30.90	99.00	99.00
7	7	22	14	15.0	1	0.0	0.00	31.80	99.00	99.00
7	7	22	15	15.0	1	12.0	1.00	32.40	99.00	99.00
7	7	22	16	15.0	1	19.0	2.10	32.60	99.00	99.00
7	7	22	17	15.0	1	32.0	2.60	32.40	99.00	99.00
7	7	22	18	15.0	1	33.0	2.60	32.00	99.00	99.00
7	7	22	19	15.0	1	27.0	3.10	31.10	99.00	99.00
7	7	22	20	15.0	1	20.0	2.10	30.00	99.00	99.00
7	7	22	21	15.0	1	269.0	3.10	28.90	99.00	99.00
7	7	22	22	15.0	1	265.0	4.60	26.10	99.00	99.00
7	7	22	23	15.0	1	272.0	4.10	25.10	99.00	99.00
7	7	22	24	15.0	1	315.0	3.60	25.10	99.00	99.00
7	7	23	1	15.0	1	329.0	3.60	24.50	99.00	99.00
7	7	23	2	15.0	1	349.0	3.10	23.90	99.00	99.00
7	7	23	3	15.0	1	0.0	0.00	23.10	99.00	99.00
7	7	23	4	15.0	1	7.0	2.60	22.60	99.00	99.00
7	7	23	5	15.0	1	14.0	2.10	22.00	99.00	99.00
7	7	23	6	15.0	1	8.0	1.50	21.60	99.00	99.00
7	7	23	7	15.0	1	0.0	0.00	21.80	99.00	99.00
7	7	23	8	15.0	1	2.0	2.60	22.30	99.00	99.00
7	7	23	9	15.0	1	328.0	1.50	23.40	99.00	99.00
7	7	23	10	15.0	1	294.0	1.00	24.60	99.00	99.00
7	7	23	11	15.0	1	274.0	0.50	25.60	99.00	99.00
7	7	23	12	15.0	1	267.0	0.50	27.10	99.00	99.00
7	7	23	13	15.0	1	0.0	0.00	28.90	99.00	99.00
7	7	23	14	15.0	1	0.0	0.00	30.00	99.00	99.00
7	7	23	15	15.0	1	314.0	0.50	30.60	99.00	99.00
7	7	23	16	15.0	1	355.0	1.50	30.80	99.00	99.00
7	7	23	17	15.0	1	11.0	2.10	30.60	99.00	99.00
7	7	23	18	15.0	1	15.0	3.60	30.00	99.00	99.00
7	7	23	19	15.0	1	9.0	4.10	28.40	99.00	99.00
7	7	23	20	15.0	1	0.0	0.00	27.00	99.00	99.00
7	7	23	21	15.0	1	349.0	3.60	25.90	99.00	99.00
7	7	23	22	15.0	1	339.0	3.10	25.10	99.00	99.00
7	7	23	23	15.0	1	343.0	3.10	24.60	99.00	99.00
7	7	23	24	15.0	1	350.0	2.60	24.30	99.00	99.00
7	7	24	1	15.0	1	345.0	1.50	24.00	99.00	99.00
7	7	24	2	15.0	1	299.0	1.50	23.60	99.00	99.00
7	7	24	3	15.0	1	279.0	1.50	23.10	99.00	99.00
7	7	24	4	15.0	1	310.0	1.50	22.80	99.00	99.00
7	7	24	5	15.0	1	340.0	2.10	22.40	99.00	99.00
7	7	24	6	15.0	1	355.0	2.60	22.00	99.00	99.00
7	7	24	7	15.0	1	6.0	2.60	23.10	99.00	99.00
7	7	24	8	15.0	1	0.0	0.00	24.90	99.00	99.00
7	7	24	9	15.0	1	0.0	0.00	26.60	99.00	99.00
7	7	24	10	15.0	1	0.0	0.00	28.10	99.00	99.00
7	7	24	11	15.0	1	0.0	0.00	29.80	99.00	99.00
7	7	24	12	15.0	1	0.0	0.00	31.10	99.00	99.00
7	7	24	13	15.0	1	321.0	0.50	32.10	99.00	99.00
7	7	24	14	15.0	1	336.0	1.00	32.90	99.00	99.00
7	7	24	15	15.0	1	346.0	2.10	33.40	99.00	99.00
7	7	24	16	15.0	1	358.0	3.10	34.00	99.00	99.00
7	7	24	17	15.0	1	10.0	2.60	33.60	99.00	99.00
7	7	24	18	15.0	1	0.0	0.00	33.00	99.00	99.00
7	7	24	19	15.0	1	343.0	3.10	32.10	99.00	99.00
7	7	24	20	15.0	1	278.0	5.10	30.50	99.00	99.00
7	7	24	21	15.0	1	275.0	5.70	26.40	99.00	99.00
7	7	24	22	15.0	1	274.0	4.60	24.60	99.00	99.00
7	7	24	23	15.0	1	270.0	3.60	23.90	99.00	99.00
7	7	24	24	15.0	1	269.0	3.60	23.10	99.00	99.00
7	7	25	1	15.0	1	269.0	3.60	22.50	99.00	99.00
7	7	25	2	15.0	1	278.0	3.60	21.90	99.00	99.00
7	7	25	3	15.0	1	309.0	2.60	21.60	99.00	99.00
7	7	25	4	15.0	1	333.0	2.60	21.30	99.00	99.00
7	7	25	5	15.0	1	325.0	3.10	21.10	99.00	99.00
7	7	25	6	15.0	1	324.0	3.10	21.00	99.00	99.00
7	7	25	7	15.0	1	319.0	2.60	22.10	99.00	99.00
7	7	25	8	15.0	1	318.0	1.00	23.60	99.00	99.00

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 7   7 25   9     15.0 1      0.0      0.00     25.40     99.00     99.00
 7   7 25  10     15.0 1      0.0      0.00     27.30     99.00     99.00
 7   7 25  11     15.0 1      0.0      0.00     29.10     99.00     99.00
 7   7 25  12     15.0 1      0.0      0.00     30.60     99.00     99.00
 7   7 25  13     15.0 1      0.0      0.00     32.00     99.00     99.00
 7   7 25  14     15.0 1    326.0      0.50     32.90     99.00     99.00
 7   7 25  15     15.0 1    353.0      1.00     33.40     99.00     99.00
 7   7 25  16     15.0 1      3.0      2.10     33.60     99.00     99.00
 7   7 25  17     15.0 1     12.0      2.60     33.40     99.00     99.00
 7   7 25  18     15.0 1      9.0      2.60     33.10     99.00     99.00
 7   7 25  19     15.0 1    323.0      3.60     32.10     99.00     99.00
 7   7 25  20     15.0 1    276.0      5.10     28.10     99.00     99.00
 7   7 25  21     15.0 1    272.0      5.10     24.90     99.00     99.00
 7   7 25  22     15.0 1    278.0      4.60     23.50     99.00     99.00
 7   7 25  23     15.0 1    281.0      3.60     22.60     99.00     99.00
 7   7 25  24     15.0 1    295.0      3.10     22.00     99.00     99.00
 7   7 26   1     15.0 1    310.0      3.10     21.50     99.00     99.00
 7   7 26   2     15.0 1    335.0      2.60     21.10     99.00     99.00
 7   7 26   3     15.0 1    343.0      2.60     20.80     99.00     99.00
 7   7 26   4     15.0 1    326.0      2.60     20.60     99.00     99.00
 7   7 26   5     15.0 1    318.0      2.60     20.40     99.00     99.00
 7   7 26   6     15.0 1    326.0      2.10     20.30     99.00     99.00
 7   7 26   7     15.0 1    347.0      1.50     21.40     99.00     99.00
 7   7 26   8     15.0 1    339.0      0.50     23.10     99.00     99.00
 7   7 26   9     15.0 1      0.0      0.00     24.90     99.00     99.00
 7   7 26  10     15.0 1      0.0      0.00     26.80     99.00     99.00
 7   7 26  11     15.0 1      0.0      0.00     28.60     99.00     99.00
 7   7 26  12     15.0 1      0.0      0.00     30.40     99.00     99.00
 7   7 26  13     15.0 1      0.0      0.00     31.80     99.00     99.00
 7   7 26  14     15.0 1    328.0      0.50     32.80     99.00     99.00
 7   7 26  15     15.0 1    353.0      1.00     33.40     99.00     99.00
 7   7 26  16     15.0 1    359.0      1.50     33.60     99.00     99.00
 7   7 26  17     15.0 1      0.0      0.00     33.10     99.00     99.00
 7   7 26  18     15.0 1     14.0      3.10     32.60     99.00     99.00
 7   7 26  19     15.0 1     13.0      3.60     31.50     99.00     99.00
 7   7 26  20     15.0 1    308.0      3.60     30.50     99.00     99.00
 7   7 26  21     15.0 1    279.0      5.10     26.30     99.00     99.00
 7   7 26  22     15.0 1    280.0      4.60     24.10     99.00     99.00
 7   7 26  23     15.0 1    279.0      3.60     23.10     99.00     99.00
 7   7 26  24     15.0 1    287.0      3.10     22.50     99.00     99.00
 7   7 27   1     15.0 1    310.0      2.60     22.10     99.00     99.00
 7   7 27   2     15.0 1     10.0      2.10     21.80     99.00     99.00
 7   7 27   3     15.0 1     16.0      2.10     21.50     99.00     99.00
 7   7 27   4     15.0 1      0.0      0.00     21.10     99.00     99.00
 7   7 27   5     15.0 1    340.0      1.00     20.90     99.00     99.00
 7   7 27   6     15.0 1    327.0      1.00     20.80     99.00     99.00
 7   7 27   7     15.0 1    335.0      1.50     22.50     99.00     99.00
 7   7 27   8     15.0 1    331.0      0.50     24.00     99.00     99.00
 7   7 27   9     15.0 1      0.0      0.00     25.60     99.00     99.00
 7   7 27  10     15.0 1      0.0      0.00     27.40     99.00     99.00
 7   7 27  11     15.0 1      0.0      0.00     29.00     99.00     99.00
 7   7 27  12     15.0 1      0.0      0.00     30.50     99.00     99.00
 7   7 27  13     15.0 1      0.0      0.00     31.90     99.00     99.00
 7   7 27  14     15.0 1    354.0      0.50     32.80     99.00     99.00
 7   7 27  15     15.0 1      0.0      0.00     33.40     99.00     99.00
 7   7 27  16     15.0 1     11.0      2.10     33.60     99.00     99.00
 7   7 27  17     15.0 1     29.0      2.10     33.40     99.00     99.00
 7   7 27  18     15.0 1     23.0      2.60     33.30     99.00     99.00
 7   7 27  19     15.0 1    319.0      3.10     32.40     99.00     99.00
 7   7 27  20     15.0 1    284.0      5.10     28.10     99.00     99.00
 7   7 27  21     15.0 1    266.0      5.10     24.60     99.00     99.00
 7   7 27  22     15.0 1    268.0      4.60     23.10     99.00     99.00
 7   7 27  23     15.0 1    274.0      4.10     22.10     99.00     99.00
 7   7 27  24     15.0 1    277.0      3.10     21.50     99.00     99.00
 7   7 28   1     15.0 1    306.0      1.50     21.10     99.00     99.00
 7   7 28   2     15.0 1    330.0      1.00     21.10     99.00     99.00
 7   7 28   3     15.0 1    310.0      1.00     21.00     99.00     99.00
 7   7 28   4     15.0 1    307.0      1.50     20.60     99.00     99.00
 7   7 28   5     15.0 1    320.0      2.10     20.10     99.00     99.00
 7   7 28   6     15.0 1    331.0      2.10     19.80     99.00     99.00
 7   7 28   7     15.0 1    350.0      2.10     20.60     99.00     99.00
 7   7 28   8     15.0 1    345.0      0.50     22.40     99.00     99.00
 7   7 28   9     15.0 1      0.0      0.00     24.00     99.00     99.00
 7   7 28  10     15.0 1      0.0      0.00     25.60     99.00     99.00
 7   7 28  11     15.0 1      0.0      0.00     27.30     99.00     99.00
 7   7 28  12     15.0 1      0.0      0.00     28.90     99.00     99.00
 7   7 28  13     15.0 1      0.0      0.00     30.50     99.00     99.00
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7	7	28	14	15.0	1	327.0	0.50	31.50	99.00	99.00
7	7	28	15	15.0	1	0.0	0.00	32.10	99.00	99.00
7	7	28	16	15.0	1	9.0	2.10	32.10	99.00	99.00
7	7	28	17	15.0	1	21.0	2.60	31.80	99.00	99.00
7	7	28	18	15.0	1	29.0	3.10	31.00	99.00	99.00
7	7	28	19	15.0	1	16.0	3.10	29.90	99.00	99.00
7	7	28	20	15.0	1	0.0	0.00	28.90	99.00	99.00
7	7	28	21	15.0	1	297.0	2.10	28.00	99.00	99.00
7	7	28	22	15.0	1	270.0	4.10	26.10	99.00	99.00
7	7	28	23	15.0	1	272.0	3.60	24.50	99.00	99.00
7	7	28	24	15.0	1	290.0	3.60	23.60	99.00	99.00
7	7	29	1	15.0	1	324.0	3.60	22.90	99.00	99.00
7	7	29	2	15.0	1	342.0	3.60	21.90	99.00	99.00
7	7	29	3	15.0	1	351.0	3.10	21.00	99.00	99.00
7	7	29	4	15.0	1	346.0	3.10	20.10	99.00	99.00
7	7	29	5	15.0	1	347.0	2.60	19.40	99.00	99.00
7	7	29	6	15.0	1	341.0	2.10	19.10	99.00	99.00
7	7	29	7	15.0	1	346.0	2.10	19.80	99.00	99.00
7	7	29	8	15.0	1	341.0	0.50	21.60	99.00	99.00
7	7	29	9	15.0	1	0.0	0.00	23.50	99.00	99.00
7	7	29	10	15.0	1	0.0	0.00	25.10	99.00	99.00
7	7	29	11	15.0	1	0.0	0.00	26.80	99.00	99.00
7	7	29	12	15.0	1	0.0	0.00	28.40	99.00	99.00
7	7	29	13	15.0	1	0.0	0.00	29.60	99.00	99.00
7	7	29	14	15.0	1	332.0	0.50	30.60	99.00	99.00
7	7	29	15	15.0	1	8.0	1.50	31.10	99.00	99.00
7	7	29	16	15.0	1	10.0	2.60	31.80	99.00	99.00
7	7	29	17	15.0	1	22.0	2.60	31.40	99.00	99.00
7	7	29	18	15.0	1	22.0	3.10	30.90	99.00	99.00
7	7	29	19	15.0	1	11.0	3.60	29.90	99.00	99.00
7	7	29	20	15.0	1	359.0	3.10	28.80	99.00	99.00
7	7	29	21	15.0	1	328.0	2.60	27.80	99.00	99.00
7	7	29	22	15.0	1	290.0	3.10	26.80	99.00	99.00
7	7	29	23	15.0	1	295.0	3.10	25.50	99.00	99.00
7	7	29	24	15.0	1	310.0	3.60	24.40	99.00	99.00
7	7	30	1	15.0	1	352.0	3.60	23.30	99.00	99.00
7	7	30	2	15.0	1	8.0	3.60	22.10	99.00	99.00
7	7	30	3	15.0	1	18.0	3.10	21.30	99.00	99.00
7	7	30	4	15.0	1	6.0	2.60	20.60	99.00	99.00
7	7	30	5	15.0	1	12.0	3.10	19.90	99.00	99.00
7	7	30	6	15.0	1	0.0	0.00	19.60	99.00	99.00
7	7	30	7	15.0	1	0.0	0.00	20.50	99.00	99.00
7	7	30	8	15.0	1	340.0	0.50	22.30	99.00	99.00
7	7	30	9	15.0	1	0.0	0.00	24.10	99.00	99.00
7	7	30	10	15.0	1	0.0	0.00	25.60	99.00	99.00
7	7	30	11	15.0	1	0.0	0.00	27.40	99.00	99.00
7	7	30	12	15.0	1	0.0	0.00	29.00	99.00	99.00
7	7	30	13	15.0	1	0.0	0.00	30.30	99.00	99.00
7	7	30	14	15.0	1	355.0	0.50	31.10	99.00	99.00
7	7	30	15	15.0	1	21.0	1.00	31.80	99.00	99.00
7	7	30	16	15.0	1	32.0	2.10	32.00	99.00	99.00
7	7	30	17	15.0	1	29.0	2.60	31.80	99.00	99.00
7	7	30	18	15.0	1	34.0	2.60	31.50	99.00	99.00
7	7	30	19	15.0	1	34.0	3.10	30.50	99.00	99.00
7	7	30	20	15.0	1	20.0	2.60	29.30	99.00	99.00
7	7	30	21	15.0	1	311.0	1.50	28.10	99.00	99.00
7	7	30	22	15.0	1	276.0	4.60	25.50	99.00	99.00
7	7	30	23	15.0	1	277.0	4.10	23.10	99.00	99.00
7	7	30	24	15.0	1	284.0	3.60	22.10	99.00	99.00
7	7	31	1	15.0	1	279.0	2.60	21.60	99.00	99.00
7	7	31	2	15.0	1	293.0	2.10	21.30	99.00	99.00
7	7	31	3	15.0	1	298.0	2.10	21.00	99.00	99.00
7	7	31	4	15.0	1	302.0	2.10	20.60	99.00	99.00
7	7	31	5	15.0	1	300.0	3.10	20.30	99.00	99.00
7	7	31	6	15.0	1	302.0	3.10	20.00	99.00	99.00
7	7	31	7	15.0	1	315.0	2.60	21.10	99.00	99.00
7	7	31	8	15.0	1	300.0	1.00	22.90	99.00	99.00
7	7	31	9	15.0	1	0.0	0.00	24.80	99.00	99.00
7	7	31	10	15.0	1	0.0	0.00	26.80	99.00	99.00
7	7	31	11	15.0	1	0.0	0.00	28.60	99.00	99.00
7	7	31	12	15.0	1	0.0	0.00	30.30	99.00	99.00
7	7	31	13	15.0	1	322.0	0.50	31.60	99.00	99.00
7	7	31	14	15.0	1	354.0	0.50	32.60	99.00	99.00
7	7	31	15	15.0	1	0.0	0.00	33.30	99.00	99.00
7	7	31	16	15.0	1	14.0	1.50	33.50	99.00	99.00
7	7	31	17	15.0	1	25.0	2.10	33.30	99.00	99.00
7	7	31	18	15.0	1	15.0	2.60	33.00	99.00	99.00

7	7	31	19	15.0	1	316.0	3.60	31.80	99.00	99.00
7	7	31	20	15.0	1	276.0	5.10	27.10	99.00	99.00
7	7	31	21	15.0	1	268.0	5.10	23.90	99.00	99.00
7	7	31	22	15.0	1	277.0	4.60	22.50	99.00	99.00
7	7	31	23	15.0	1	277.0	3.60	21.40	99.00	99.00
7	7	31	24	15.0	1	298.0	3.10	20.60	99.00	99.00
7	8	1	1	15.0	1	329.0	2.60	20.10	99.00	99.00
7	8	1	2	15.0	1	0.0	0.00	19.60	99.00	99.00
7	8	1	3	15.0	1	9.0	3.10	18.80	99.00	99.00
7	8	1	4	15.0	1	0.0	0.00	18.30	99.00	99.00
7	8	1	5	15.0	1	357.0	3.10	17.80	99.00	99.00
7	8	1	6	15.0	1	351.0	2.60	17.90	99.00	99.00
7	8	1	7	15.0	1	329.0	2.10	19.60	99.00	99.00
7	8	1	8	15.0	1	347.0	0.50	21.50	99.00	99.00
7	8	1	9	15.0	1	0.0	0.00	23.90	99.00	99.00
7	8	1	10	15.0	1	0.0	0.00	26.00	99.00	99.00
7	8	1	11	15.0	1	0.0	0.00	28.10	99.00	99.00
7	8	1	12	15.0	1	0.0	0.00	30.00	99.00	99.00
7	8	1	13	15.0	1	0.0	0.00	31.50	99.00	99.00
7	8	1	14	15.0	1	306.0	0.50	32.60	99.00	99.00
7	8	1	15	15.0	1	350.0	1.00	33.30	99.00	99.00
7	8	1	16	15.0	1	0.0	0.00	33.60	99.00	99.00
7	8	1	17	15.0	1	18.0	2.10	33.10	99.00	99.00
7	8	1	18	15.0	1	24.0	2.60	32.50	99.00	99.00
7	8	1	19	15.0	1	346.0	2.60	31.50	99.00	99.00
7	8	1	20	15.0	1	299.0	5.10	28.50	99.00	99.00
7	8	1	21	15.0	1	276.0	5.10	24.50	99.00	99.00
7	8	1	22	15.0	1	287.0	4.10	23.00	99.00	99.00
7	8	1	23	15.0	1	298.0	3.60	22.00	99.00	99.00
7	8	1	24	15.0	1	329.0	3.10	21.50	99.00	99.00
7	8	2	1	15.0	1	12.0	3.60	21.00	99.00	99.00
7	8	2	2	15.0	1	21.0	4.10	20.10	99.00	99.00
7	8	2	3	15.0	1	20.0	3.60	19.30	99.00	99.00
7	8	2	4	15.0	1	34.0	3.10	19.00	99.00	99.00
7	8	2	5	15.0	1	25.0	2.10	18.80	99.00	99.00
7	8	2	6	15.0	1	22.0	1.50	18.60	99.00	99.00
7	8	2	7	15.0	1	337.0	1.00	20.60	99.00	99.00
7	8	2	8	15.0	1	0.0	0.00	22.60	99.00	99.00
7	8	2	9	15.0	1	0.0	0.00	24.90	99.00	99.00
7	8	2	10	15.0	1	0.0	0.00	27.10	99.00	99.00
7	8	2	11	15.0	1	0.0	0.00	28.90	99.00	99.00
7	8	2	12	15.0	1	0.0	0.00	30.40	99.00	99.00
7	8	2	13	15.0	1	337.0	0.50	31.50	99.00	99.00
7	8	2	14	15.0	1	357.0	0.50	32.50	99.00	99.00
7	8	2	15	15.0	1	15.0	1.00	33.00	99.00	99.00
7	8	2	16	15.0	1	24.0	1.50	33.10	99.00	99.00
7	8	2	17	15.0	1	29.0	2.10	32.80	99.00	99.00
7	8	2	18	15.0	1	26.0	2.60	32.30	99.00	99.00
7	8	2	19	15.0	1	45.0	2.60	31.00	99.00	99.00
7	8	2	20	15.0	1	17.0	1.50	29.60	99.00	99.00
7	8	2	21	15.0	1	300.0	3.60	27.60	99.00	99.00
7	8	2	22	15.0	1	305.0	4.10	24.60	99.00	99.00
7	8	2	23	15.0	1	311.0	3.60	23.10	99.00	99.00
7	8	2	24	15.0	1	323.0	3.10	22.40	99.00	99.00
7	8	3	1	15.0	1	330.0	3.10	21.80	99.00	99.00
7	8	3	2	15.0	1	337.0	3.10	21.30	99.00	99.00
7	8	3	3	15.0	1	350.0	2.60	20.80	99.00	99.00
7	8	3	4	15.0	1	350.0	1.50	20.40	99.00	99.00
7	8	3	5	15.0	1	329.0	0.50	19.90	99.00	99.00
7	8	3	6	15.0	1	311.0	0.50	19.50	99.00	99.00
7	8	3	7	15.0	1	309.0	0.50	21.00	99.00	99.00
7	8	3	8	15.0	1	0.0	0.00	23.10	99.00	99.00
7	8	3	9	15.0	1	0.0	0.00	25.40	99.00	99.00
7	8	3	10	15.0	1	0.0	0.00	27.30	99.00	99.00
7	8	3	11	15.0	1	0.0	0.00	29.00	99.00	99.00
7	8	3	12	15.0	1	0.0	0.00	30.60	99.00	99.00
7	8	3	13	15.0	1	0.0	0.00	32.00	99.00	99.00
7	8	3	14	15.0	1	0.0	0.00	33.10	99.00	99.00
7	8	3	15	15.0	1	0.0	0.00	33.80	99.00	99.00
7	8	3	16	15.0	1	23.0	1.00	34.00	99.00	99.00
7	8	3	17	15.0	1	22.0	1.50	33.60	99.00	99.00
7	8	3	18	15.0	1	15.0	2.10	33.10	99.00	99.00
7	8	3	19	15.0	1	0.0	0.00	31.60	99.00	99.00
7	8	3	20	15.0	1	341.0	1.50	30.00	99.00	99.00
7	8	3	21	15.0	1	277.0	2.10	28.50	99.00	99.00
7	8	3	22	15.0	1	277.0	4.10	26.10	99.00	99.00
7	8	3	23	15.0	1	267.0	3.10	24.60	99.00	99.00

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 7  8  3 24    15.0 1   260.0     2.60    24.00    99.00    99.00
 7  8  4  1    15.0 1   266.0     2.10    23.50    99.00    99.00
 7  8  4  2    15.0 1   279.0     2.10    22.80    99.00    99.00
 7  8  4  3    15.0 1   307.0     2.60    22.10    99.00    99.00
 7  8  4  4    15.0 1   308.0     3.10    21.50    99.00    99.00
 7  8  4  5    15.0 1   319.0     3.10    20.60    99.00    99.00
 7  8  4  6    15.0 1   322.0     2.60    20.00    99.00    99.00
 7  8  4  7    15.0 1   347.0     2.60    21.10    99.00    99.00
 7  8  4  8    15.0 1   343.0     1.00    22.80    99.00    99.00
 7  8  4  9    15.0 1     0.0     0.00    25.30    99.00    99.00
 7  8  4 10    15.0 1     0.0     0.00    27.10    99.00    99.00
 7  8  4 11    15.0 1     0.0     0.00    29.00    99.00    99.00
 7  8  4 12    15.0 1   278.0     0.50    30.50    99.00    99.00
 7  8  4 13    15.0 1     0.0     0.00    31.90    99.00    99.00
 7  8  4 14    15.0 1     0.0     0.00    33.00    99.00    99.00
 7  8  4 15    15.0 1     3.0     1.00    33.60    99.00    99.00
 7  8  4 16    15.0 1     8.0     2.10    33.80    99.00    99.00
 7  8  4 17    15.0 1    18.0     2.10    33.30    99.00    99.00
 7  8  4 18    15.0 1    22.0     3.10    32.80    99.00    99.00
 7  8  4 19    15.0 1    12.0     2.60    31.60    99.00    99.00
 7  8  4 20    15.0 1   312.0     3.10    30.40    99.00    99.00
 7  8  4 21    15.0 1   285.0     5.70    26.50    99.00    99.00
 7  8  4 22    15.0 1   275.0     5.10    23.60    99.00    99.00
 7  8  4 23    15.0 1   273.0     4.60    22.60    99.00    99.00
 7  8  4 24    15.0 1   289.0     3.60    21.90    99.00    99.00
 7  8  5  1    15.0 1   330.0     3.10    21.60    99.00    99.00
 7  8  5  2    15.0 1     2.0     2.60    21.60    99.00    99.00
 7  8  5  3    15.0 1   354.0     1.50    21.30    99.00    99.00
 7  8  5  4    15.0 1   345.0     0.50    20.80    99.00    99.00
 7  8  5  5    15.0 1     0.0     0.00    20.30    99.00    99.00
 7  8  5  6    15.0 1    25.0     0.50    19.90    99.00    99.00
 7  8  5  7    15.0 1     6.0     1.50    20.60    99.00    99.00
 7  8  5  8    15.0 1   341.0     1.00    22.10    99.00    99.00
 7  8  5  9    15.0 1   324.0     0.50    23.60    99.00    99.00
 7  8  5 10    15.0 1   332.0     0.50    25.40    99.00    99.00
 7  8  5 11    15.0 1   341.0     0.50    26.90    99.00    99.00
 7  8  5 12    15.0 1   328.0     0.50    28.40    99.00    99.00
 7  8  5 13    15.0 1   343.0     1.00    29.60    99.00    99.00
 7  8  5 14    15.0 1   352.0     1.50    30.60    99.00    99.00
 7  8  5 15    15.0 1   352.0     2.10    31.10    99.00    99.00
 7  8  5 16    15.0 1   340.0     2.60    31.50    99.00    99.00
 7  8  5 17    15.0 1   316.0     2.10    30.90    99.00    99.00
 7  8  5 18    15.0 1   291.0     3.60    29.60    99.00    99.00
 7  8  5 19    15.0 1   271.0     5.10    25.90    99.00    99.00
 7  8  5 20    15.0 1   270.0     5.70    22.60    99.00    99.00
 7  8  5 21    15.0 1   268.0     5.10    21.00    99.00    99.00
 7  8  5 22    15.0 1   270.0     4.10    20.00    99.00    99.00
 7  8  5 23    15.0 1   277.0     3.60    19.10    99.00    99.00
 7  8  5 24    15.0 1   310.0     2.60    18.60    99.00    99.00
 7  8  6  1    15.0 1   342.0     2.10    18.50    99.00    99.00
 7  8  6  2    15.0 1   335.0     2.60    18.10    99.00    99.00
 7  8  6  3    15.0 1   308.0     2.60    17.50    99.00    99.00
 7  8  6  4    15.0 1   298.0     2.60    17.00    99.00    99.00
 7  8  6  5    15.0 1   314.0     2.60    16.60    99.00    99.00
 7  8  6  6    15.0 1   316.0     2.10    16.30    99.00    99.00
 7  8  6  7    15.0 1   323.0     1.50    17.30    99.00    99.00
 7  8  6  8    15.0 1   316.0     0.50    18.50    99.00    99.00
 7  8  6  9    15.0 1     0.0     0.00    20.00    99.00    99.00
 7  8  6 10    15.0 1     0.0     0.00    21.60    99.00    99.00
 7  8  6 11    15.0 1     0.0     0.00    23.40    99.00    99.00
 7  8  6 12    15.0 1     0.0     0.00    24.90    99.00    99.00
 7  8  6 13    15.0 1   336.0     0.50    26.10    99.00    99.00
 7  8  6 14    15.0 1   342.0     1.00    27.10    99.00    99.00
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 7  8  6 16    15.0 1   360.0     3.10    27.60    99.00    99.00
 7  8  6 17    15.0 1     0.0     0.00    27.30    99.00    99.00
 7  8  6 18    15.0 1     1.0     3.10    26.30    99.00    99.00
 7  8  6 19    15.0 1   344.0     3.60    24.80    99.00    99.00
 7  8  6 20    15.0 1   298.0     4.10    22.90    99.00    99.00
 7  8  6 21    15.0 1   276.0     4.60    20.50    99.00    99.00
 7  8  6 22    15.0 1   276.0     3.60    19.10    99.00    99.00
 7  8  6 23    15.0 1   304.0     3.60    18.40    99.00    99.00
 7  8  6 24    15.0 1   308.0     3.60    17.60    99.00    99.00
 7  8  7  1    15.0 1   321.0     3.10    16.80    99.00    99.00
 7  8  7  2    15.0 1   342.0     2.60    16.10    99.00    99.00
 7  8  7  3    15.0 1   341.0     2.60    15.60    99.00    99.00
 7  8  7  4    15.0 1   341.0     2.10    15.10    99.00    99.00
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 7  8  7  5    15.0 1   358.0     1.50    14.60    99.00    99.00
 7  8  7  6    15.0 1    11.0     1.00    14.40    99.00    99.00
 7  8  7  7    15.0 1     0.0     0.00    15.30    99.00    99.00
 7  8  7  8    15.0 1     0.0     0.00    16.60    99.00    99.00
 7  8  7  9    15.0 1     0.0     0.00    18.30    99.00    99.00
 7  8  7 10    15.0 1     0.0     0.00    20.00    99.00    99.00
 7  8  7 11    15.0 1     0.0     0.00    21.80    99.00    99.00
 7  8  7 12    15.0 1     0.0     0.00    23.10    99.00    99.00
 7  8  7 13    15.0 1     0.0     0.00    24.40    99.00    99.00
 7  8  7 14    15.0 1     0.0     0.00    25.50    99.00    99.00
 7  8  7 15    15.0 1     0.0     0.00    26.30    99.00    99.00
 7  8  7 16    15.0 1     6.0     1.50    26.60    99.00    99.00
 7  8  7 17    15.0 1    18.0     2.60    26.50    99.00    99.00
 7  8  7 18    15.0 1    21.0     2.60    26.00    99.00    99.00
 7  8  7 19    15.0 1    26.0     3.60    24.60    99.00    99.00
 7  8  7 20    15.0 1    16.0     3.60    23.40    99.00    99.00
 7  8  7 21    15.0 1   318.0     3.10    22.30    99.00    99.00
 7  8  7 22    15.0 1   281.0     4.10    20.10    99.00    99.00
 7  8  7 23    15.0 1   276.0     3.60    18.60    99.00    99.00
 7  8  7 24    15.0 1   296.0     3.10    18.10    99.00    99.00
 7  8  8  1    15.0 1   317.0     3.60    17.60    99.00    99.00
 7  8  8  2    15.0 1   340.0     3.10    17.00    99.00    99.00
 7  8  8  3    15.0 1   347.0     2.60    16.30    99.00    99.00
 7  8  8  4    15.0 1     4.0     2.60    15.60    99.00    99.00
 7  8  8  5    15.0 1     0.0     0.00    15.00    99.00    99.00
 7  8  8  6    15.0 1     7.0     1.50    14.60    99.00    99.00
 7  8  8  7    15.0 1     0.0     0.00    15.60    99.00    99.00
 7  8  8  8    15.0 1   349.0     0.50    17.50    99.00    99.00
 7  8  8  9    15.0 1     0.0     0.00    19.40    99.00    99.00
 7  8  8 10    15.0 1     0.0     0.00    21.10    99.00    99.00
 7  8  8 11    15.0 1     0.0     0.00    22.80    99.00    99.00
 7  8  8 12    15.0 1     0.0     0.00    24.60    99.00    99.00
 7  8  8 13    15.0 1     0.0     0.00    26.00    99.00    99.00
 7  8  8 14    15.0 1     0.0     0.00    27.00    99.00    99.00
 7  8  8 15    15.0 1    21.0     1.00    27.60    99.00    99.00
 7  8  8 16    15.0 1    22.0     1.00    28.60    99.00    99.00
 7  8  8 17    15.0 1    31.0     1.50    28.60    99.00    99.00
 7  8  8 18    15.0 1    38.0     2.10    28.60    99.00    99.00
 7  8  8 19    15.0 1   318.0     2.10    27.60    99.00    99.00
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 7  8  8 21    15.0 1   267.0     5.70    20.30    99.00    99.00
 7  8  8 22    15.0 1   261.0     4.60    19.00    99.00    99.00
 7  8  8 23    15.0 1   268.0     4.60    17.90    99.00    99.00
 7  8  8 24    15.0 1   278.0     4.10    17.00    99.00    99.00
 7  8  9  1    15.0 1   287.0     2.60    16.40    99.00    99.00
 7  8  9  2    15.0 1   302.0     1.50    16.10    99.00    99.00
 7  8  9  3    15.0 1   315.0     1.50    15.80    99.00    99.00
 7  8  9  4    15.0 1   311.0     1.00    15.60    99.00    99.00
 7  8  9  5    15.0 1   318.0     1.00    15.30    99.00    99.00
 7  8  9  6    15.0 1   334.0     0.50    15.10    99.00    99.00
 7  8  9  7    15.0 1   323.0     1.50    16.30    99.00    99.00
 7  8  9  8    15.0 1     0.0     0.00    18.00    99.00    99.00
 7  8  9  9    15.0 1     0.0     0.00    19.50    99.00    99.00
 7  8  9 10    15.0 1     0.0     0.00    21.40    99.00    99.00
 7  8  9 11    15.0 1     0.0     0.00    23.10    99.00    99.00
 7  8  9 12    15.0 1     0.0     0.00    24.90    99.00    99.00
 7  8  9 13    15.0 1     0.0     0.00    26.50    99.00    99.00
 7  8  9 14    15.0 1   331.0     0.50    27.90    99.00    99.00
 7  8  9 15    15.0 1   355.0     1.00    28.60    99.00    99.00
 7  8  9 16    15.0 1    14.0     1.50    29.10    99.00    99.00
 7  8  9 17    15.0 1    20.0     2.10    29.00    99.00    99.00
 7  8  9 18    15.0 1    17.0     2.60    28.40    99.00    99.00
 7  8  9 19    15.0 1    33.0     3.60    27.10    99.00    99.00
 7  8  9 20    15.0 1    17.0     2.60    25.90    99.00    99.00
 7  8  9 21    15.0 1   279.0     3.60    24.10    99.00    99.00
 7  8  9 22    15.0 1   282.0     4.60    20.90    99.00    99.00
 7  8  9 23    15.0 1   284.0     3.60    19.60    99.00    99.00
 7  8  9 24    15.0 1   288.0     2.60    19.30    99.00    99.00
 7  8 10  1    15.0 1   295.0     3.10    19.00    99.00    99.00
 7  8 10  2    15.0 1   292.0     3.10    18.60    99.00    99.00
 7  8 10  3    15.0 1   297.0     3.10    18.10    99.00    99.00
 7  8 10  4    15.0 1   303.0     2.60    17.60    99.00    99.00
 7  8 10  5    15.0 1   310.0     2.10    17.10    99.00    99.00
 7  8 10  6    15.0 1   308.0     2.10    16.60    99.00    99.00
 7  8 10  7    15.0 1   342.0     1.50    18.00    99.00    99.00
 7  8 10  8    15.0 1   355.0     0.50    19.80    99.00    99.00
 7  8 10  9    15.0 1     0.0     0.00    21.80    99.00    99.00
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 7   8 10 10     15.0 1      0.0      0.00     23.90     99.00     99.00
 7   8 10 11     15.0 1      0.0      0.00     25.90     99.00     99.00
 7   8 10 12     15.0 1      0.0      0.00     27.50     99.00     99.00
 7   8 10 13     15.0 1      0.0      0.00     29.00     99.00     99.00
 7   8 10 14     15.0 1    340.0      1.00     30.00     99.00     99.00
 7   8 10 15     15.0 1    358.0      1.50     30.60     99.00     99.00
 7   8 10 16     15.0 1     13.0      2.60     30.60     99.00     99.00
 7   8 10 17     15.0 1     12.0      2.60     30.10     99.00     99.00
 7   8 10 18     15.0 1     21.0      3.10     29.50     99.00     99.00
 7   8 10 19     15.0 1     14.0      3.10     28.50     99.00     99.00
 7   8 10 20     15.0 1    303.0      2.60     27.30     99.00     99.00
 7   8 10 21     15.0 1    258.0      5.10     23.80     99.00     99.00
 7   8 10 22     15.0 1    271.0      4.60     21.40     99.00     99.00
 7   8 10 23     15.0 1    281.0      3.10     20.60     99.00     99.00
 7   8 10 24     15.0 1    288.0      3.10     20.50     99.00     99.00
 7   8 11  1     15.0 1    324.0      3.10     20.10     99.00     99.00
 7   8 11  2     15.0 1    338.0      3.60     19.60     99.00     99.00
 7   8 11  3     15.0 1    342.0      3.10     18.90     99.00     99.00
 7   8 11  4     15.0 1    341.0      2.60     18.30     99.00     99.00
 7   8 11  5     15.0 1    333.0      2.10     17.60     99.00     99.00
 7   8 11  6     15.0 1    337.0      1.50     17.30     99.00     99.00
 7   8 11  7     15.0 1    355.0      2.10     18.00     99.00     99.00
 7   8 11  8     15.0 1    352.0      0.50     19.80     99.00     99.00
 7   8 11  9     15.0 1      0.0      0.00     21.60     99.00     99.00
 7   8 11 10     15.0 1      0.0      0.00     23.60     99.00     99.00
 7   8 11 11     15.0 1      0.0      0.00     25.50     99.00     99.00
 7   8 11 12     15.0 1      0.0      0.00     27.00     99.00     99.00
 7   8 11 13     15.0 1    317.0      0.50     28.40     99.00     99.00
 7   8 11 14     15.0 1    354.0      1.00     29.40     99.00     99.00
 7   8 11 15     15.0 1    359.0      1.50     30.00     99.00     99.00
 7   8 11 16     15.0 1      0.0      0.00     30.10     99.00     99.00
 7   8 11 17     15.0 1      8.0      2.60     29.90     99.00     99.00
 7   8 11 18     15.0 1      9.0      3.10     29.30     99.00     99.00
 7   8 11 19     15.0 1      6.0      3.60     28.10     99.00     99.00
 7   8 11 20     15.0 1    359.0      3.10     27.10     99.00     99.00
 7   8 11 21     15.0 1    301.0      3.10     25.90     99.00     99.00
 7   8 11 22     15.0 1    278.0      4.10     23.30     99.00     99.00
 7   8 11 23     15.0 1    296.0      3.60     22.00     99.00     99.00
 7   8 11 24     15.0 1    313.0      3.60     21.30     99.00     99.00
 7   8 12  1     15.0 1    333.0      3.10     20.60     99.00     99.00
 7   8 12  2     15.0 1    348.0      3.10     19.60     99.00     99.00
 7   8 12  3     15.0 1    347.0      2.60     19.00     99.00     99.00
 7   8 12  4     15.0 1    349.0      2.10     18.40     99.00     99.00
 7   8 12  5     15.0 1    337.0      1.00     18.00     99.00     99.00
 7   8 12  6     15.0 1    336.0      0.50     17.80     99.00     99.00
 7   8 12  7     15.0 1    349.0      1.00     17.90     99.00     99.00
 7   8 12  8     15.0 1    346.0      1.00     18.50     99.00     99.00
 7   8 12  9     15.0 1    350.0      0.50     20.10     99.00     99.00
 7   8 12 10     15.0 1    324.0      0.50     22.50     99.00     99.00
 7   8 12 11     15.0 1    316.0      0.50     24.10     99.00     99.00
 7   8 12 12     15.0 1    336.0      1.00     26.00     99.00     99.00
 7   8 12 13     15.0 1    354.0      1.50     27.40     99.00     99.00
 7   8 12 14     15.0 1    349.0      2.10     28.30     99.00     99.00
 7   8 12 15     15.0 1    356.0      2.60     28.90     99.00     99.00
 7   8 12 16     15.0 1      0.0      0.00     29.10     99.00     99.00
 7   8 12 17     15.0 1      8.0      2.10     29.10     99.00     99.00
 7   8 12 18     15.0 1     22.0      2.10     28.80     99.00     99.00
 7   8 12 19     15.0 1     26.0      1.50     27.80     99.00     99.00
 7   8 12 20     15.0 1    349.0      0.50     26.80     99.00     99.00
 7   8 12 21     15.0 1    315.0      1.00     25.80     99.00     99.00
 7   8 12 22     15.0 1    332.0      3.10     24.60     99.00     99.00
 7   8 12 23     15.0 1    351.0      4.10     22.60     99.00     99.00
 7   8 12 24     15.0 1    352.0      3.60     21.00     99.00     99.00
 7   8 13  1     15.0 1    352.0      3.10     20.00     99.00     99.00
 7   8 13  2     15.0 1    355.0      2.60     19.10     99.00     99.00
 7   8 13  3     15.0 1    353.0      2.60     18.50     99.00     99.00
 7   8 13  4     15.0 1    355.0      2.10     17.90     99.00     99.00
 7   8 13  5     15.0 1    349.0      1.50     17.30     99.00     99.00
 7   8 13  6     15.0 1    343.0      1.50     16.90     99.00     99.00
 7   8 13  7     15.0 1    346.0      2.10     17.60     99.00     99.00
 7   8 13  8     15.0 1    346.0      0.50     19.10     99.00     99.00
 7   8 13  9     15.0 1      0.0      0.00     21.60     99.00     99.00
 7   8 13 10     15.0 1      0.0      0.00     23.40     99.00     99.00
 7   8 13 11     15.0 1      0.0      0.00     25.40     99.00     99.00
 7   8 13 12     15.0 1    326.0      0.50     27.10     99.00     99.00
 7   8 13 13     15.0 1    343.0      1.00     28.40     99.00     99.00
 7   8 13 14     15.0 1    336.0      1.50     29.40     99.00     99.00
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 7   8 13 15     15.0 1    342.0      2.60     30.10     99.00     99.00
 7   8 13 16     15.0 1    340.0      3.10     31.10     99.00     99.00
 7   8 13 17     15.0 1    338.0      2.60     30.50     99.00     99.00
 7   8 13 18     15.0 1    354.0      2.60     30.00     99.00     99.00
 7   8 13 19     15.0 1    348.0      3.10     29.00     99.00     99.00
 7   8 13 20     15.0 1    337.0      2.60     27.90     99.00     99.00
 7   8 13 21     15.0 1    323.0      3.10     26.80     99.00     99.00
 7   8 13 22     15.0 1    320.0      4.10     25.40     99.00     99.00
 7   8 13 23     15.0 1    319.0      4.10     23.50     99.00     99.00
 7   8 13 24     15.0 1    333.0      3.60     22.30     99.00     99.00
 7   8 14  1     15.0 1    341.0      3.10     21.30     99.00     99.00
 7   8 14  2     15.0 1      5.0      2.60     20.60     99.00     99.00
 7   8 14  3     15.0 1      6.0      2.10     19.90     99.00     99.00
 7   8 14  4     15.0 1      8.0      1.50     19.30     99.00     99.00
 7   8 14  5     15.0 1    356.0      1.00     18.60     99.00     99.00
 7   8 14  6     15.0 1    326.0      0.50     18.30     99.00     99.00
 7   8 14  7     15.0 1    350.0      1.50     18.90     99.00     99.00
 7   8 14  8     15.0 1    342.0      0.50     20.60     99.00     99.00
 7   8 14  9     15.0 1      0.0      0.00     22.60     99.00     99.00
 7   8 14 10     15.0 1      0.0      0.00     24.50     99.00     99.00
 7   8 14 11     15.0 1      0.0      0.00     26.40     99.00     99.00
 7   8 14 12     15.0 1    330.0      0.50     28.00     99.00     99.00
 7   8 14 13     15.0 1    348.0      0.50     29.30     99.00     99.00
 7   8 14 14     15.0 1    348.0      1.00     30.30     99.00     99.00
 7   8 14 15     15.0 1    352.0      1.50     31.00     99.00     99.00
 7   8 14 16     15.0 1    347.0      2.10     31.30     99.00     99.00
 7   8 14 17     15.0 1      0.0      0.00     31.10     99.00     99.00
 7   8 14 18     15.0 1     15.0      2.60     30.60     99.00     99.00
 7   8 14 19     15.0 1      6.0      3.10     29.40     99.00     99.00
 7   8 14 20     15.0 1      0.0      0.00     28.10     99.00     99.00
 7   8 14 21     15.0 1    333.0      3.10     27.10     99.00     99.00
 7   8 14 22     15.0 1    308.0      3.60     26.00     99.00     99.00
 7   8 14 23     15.0 1    313.0      3.60     24.40     99.00     99.00
 7   8 14 24     15.0 1    335.0      3.60     23.10     99.00     99.00
 7   8 15  1     15.0 1    337.0      3.10     22.00     99.00     99.00
 7   8 15  2     15.0 1    357.0      3.10     21.10     99.00     99.00
 7   8 15  3     15.0 1      6.0      3.10     20.10     99.00     99.00
 7   8 15  4     15.0 1     15.0      3.10     19.50     99.00     99.00
 7   8 15  5     15.0 1     12.0      2.10     19.00     99.00     99.00
 7   8 15  6     15.0 1    348.0      1.50     18.60     99.00     99.00
 7   8 15  7     15.0 1    347.0      2.60     19.30     99.00     99.00
 7   8 15  8     15.0 1    339.0      1.50     20.90     99.00     99.00
 7   8 15  9     15.0 1    324.0      0.50     23.10     99.00     99.00
 7   8 15 10     15.0 1      0.0      0.00     24.90     99.00     99.00
 7   8 15 11     15.0 1      0.0      0.00     26.80     99.00     99.00
 7   8 15 12     15.0 1      0.0      0.00     28.30     99.00     99.00
 7   8 15 13     15.0 1    343.0      0.50     29.60     99.00     99.00
 7   8 15 14     15.0 1    347.0      1.00     30.60     99.00     99.00
 7   8 15 15     15.0 1    355.0      1.50     31.40     99.00     99.00
 7   8 15 16     15.0 1      2.0      2.60     31.60     99.00     99.00
 7   8 15 17     15.0 1      0.0      0.00     31.30     99.00     99.00
 7   8 15 18     15.0 1      0.0      0.00     30.60     99.00     99.00
 7   8 15 19     15.0 1      5.0      3.60     29.50     99.00     99.00
 7   8 15 20     15.0 1    344.0      3.60     28.40     99.00     99.00
 7   8 15 21     15.0 1    326.0      4.10     26.60     99.00     99.00
 7   8 15 22     15.0 1    334.0      3.60     25.10     99.00     99.00
 7   8 15 23     15.0 1    332.0      3.60     23.90     99.00     99.00
 7   8 15 24     15.0 1    338.0      3.60     22.60     99.00     99.00
 7   8 16  1     15.0 1    346.0      3.10     21.60     99.00     99.00
 7   8 16  2     15.0 1    359.0      2.60     21.00     99.00     99.00
 7   8 16  3     15.0 1     12.0      2.60     20.40     99.00     99.00
 7   8 16  4     15.0 1     12.0      2.10     19.60     99.00     99.00
 7   8 16  5     15.0 1      0.0      0.00     19.10     99.00     99.00
 7   8 16  6     15.0 1    346.0      1.00     18.60     99.00     99.00
 7   8 16  7     15.0 1    359.0      2.10     19.10     99.00     99.00
 7   8 16  8     15.0 1    348.0      1.50     20.60     99.00     99.00
 7   8 16  9     15.0 1    330.0      1.00     22.50     99.00     99.00
 7   8 16 10     15.0 1    325.0      1.00     24.30     99.00     99.00
 7   8 16 11     15.0 1    322.0      1.00     26.10     99.00     99.00
 7   8 16 12     15.0 1    342.0      1.50     27.50     99.00     99.00
 7   8 16 13     15.0 1    355.0      2.10     28.80     99.00     99.00
 7   8 16 14     15.0 1    346.0      2.60     29.60     99.00     99.00
 7   8 16 15     15.0 1    354.0      3.10     30.10     99.00     99.00
 7   8 16 16     15.0 1    355.0      3.60     30.10     99.00     99.00
 7   8 16 17     15.0 1      3.0      3.10     29.50     99.00     99.00
 7   8 16 18     15.0 1    347.0      3.60     28.60     99.00     99.00
 7   8 16 19     15.0 1    355.0      3.60     27.00     99.00     99.00
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 7   8 16 20     15.0 1   342.0      3.60     25.50     99.00     99.00
 7   8 16 21     15.0 1   329.0      3.60     24.10     99.00     99.00
 7   8 16 22     15.0 1   342.0      3.60     23.30     99.00     99.00
 7   8 16 23     15.0 1   344.0      3.60     22.30     99.00     99.00
 7   8 16 24     15.0 1   347.0      3.10     21.40     99.00     99.00
 7   8 17  1     15.0 1   348.0      2.60     20.60     99.00     99.00
 7   8 17  2     15.0 1     3.0      2.10     19.90     99.00     99.00
 7   8 17  3     15.0 1   360.0      2.10     19.10     99.00     99.00
 7   8 17  4     15.0 1   346.0      1.50     18.60     99.00     99.00
 7   8 17  5     15.0 1   338.0      1.00     18.10     99.00     99.00
 7   8 17  6     15.0 1   337.0      1.00     17.60     99.00     99.00
 7   8 17  7     15.0 1   354.0      1.50     18.10     99.00     99.00
 7   8 17  8     15.0 1   339.0      0.50     19.80     99.00     99.00
 7   8 17  9     15.0 1     0.0      0.00     21.80     99.00     99.00
 7   8 17 10     15.0 1     0.0      0.00     23.60     99.00     99.00
 7   8 17 11     15.0 1     0.0      0.00     25.60     99.00     99.00
 7   8 17 12     15.0 1   326.0      0.50     27.10     99.00     99.00
 7   8 17 13     15.0 1   344.0      1.00     28.60     99.00     99.00
 7   8 17 14     15.0 1   349.0      1.50     29.60     99.00     99.00
 7   8 17 15     15.0 1   355.0      2.10     30.30     99.00     99.00
 7   8 17 16     15.0 1   352.0      3.10     30.40     99.00     99.00
 7   8 17 17     15.0 1   352.0      2.60     29.90     99.00     99.00
 7   8 17 18     15.0 1     2.0      3.10     29.10     99.00     99.00
 7   8 17 19     15.0 1   348.0      3.60     27.60     99.00     99.00
 7   8 17 20     15.0 1   341.0      3.60     26.10     99.00     99.00
 7   8 17 21     15.0 1   329.0      3.60     24.60     99.00     99.00
 7   8 17 22     15.0 1   332.0      3.10     23.60     99.00     99.00
 7   8 17 23     15.0 1   327.0      3.10     22.80     99.00     99.00
 7   8 17 24     15.0 1   347.0      3.10     21.80     99.00     99.00
 7   8 18  1     15.0 1     0.0      0.00     20.60     99.00     99.00
 7   8 18  2     15.0 1    15.0      3.10     19.60     99.00     99.00
 7   8 18  3     15.0 1     0.0      0.00     19.00     99.00     99.00
 7   8 18  4     15.0 1     0.0      0.00     18.30     99.00     99.00
 7   8 18  5     15.0 1    11.0      2.10     17.60     99.00     99.00
 7   8 18  6     15.0 1     0.0      0.00     17.10     99.00     99.00
 7   8 18  7     15.0 1     2.0      2.10     17.60     99.00     99.00
 7   8 18  8     15.0 1   344.0      0.50     19.40     99.00     99.00
 7   8 18  9     15.0 1     0.0      0.00     21.60     99.00     99.00
 7   8 18 10     15.0 1     0.0      0.00     23.50     99.00     99.00
 7   8 18 11     15.0 1     0.0      0.00     25.30     99.00     99.00
 7   8 18 12     15.0 1   311.0      0.50     26.90     99.00     99.00
 7   8 18 13     15.0 1   332.0      0.50     28.30     99.00     99.00
 7   8 18 14     15.0 1   340.0      1.00     29.40     99.00     99.00
 7   8 18 15     15.0 1   351.0      1.50     30.00     99.00     99.00
 7   8 18 16     15.0 1     1.0      3.10     30.60     99.00     99.00
 7   8 18 17     15.0 1    14.0      2.60     30.10     99.00     99.00
 7   8 18 18     15.0 1    13.0      3.10     29.40     99.00     99.00
 7   8 18 19     15.0 1   358.0      3.10     28.10     99.00     99.00
 7   8 18 20     15.0 1   345.0      3.10     27.10     99.00     99.00
 7   8 18 21     15.0 1   300.0      3.60     25.80     99.00     99.00
 7   8 18 22     15.0 1   295.0      4.10     23.60     99.00     99.00
 7   8 18 23     15.0 1   313.0      3.60     22.50     99.00     99.00
 7   8 18 24     15.0 1   334.0      3.10     21.60     99.00     99.00
 7   8 19  1     15.0 1     0.0      0.00     20.50     99.00     99.00
 7   8 19  2     15.0 1    11.0      3.10     19.50     99.00     99.00
 7   8 19  3     15.0 1    15.0      2.60     18.60     99.00     99.00
 7   8 19  4     15.0 1     0.0      0.00     18.00     99.00     99.00
 7   8 19  5     15.0 1   360.0      2.10     17.40     99.00     99.00
 7   8 19  6     15.0 1   352.0      1.00     17.00     99.00     99.00
 7   8 19  7     15.0 1     1.0      2.10     17.50     99.00     99.00
 7   8 19  8     15.0 1   355.0      0.50     19.10     99.00     99.00
 7   8 19  9     15.0 1     0.0      0.00     21.30     99.00     99.00
 7   8 19 10     15.0 1     0.0      0.00     23.10     99.00     99.00
 7   8 19 11     15.0 1     0.0      0.00     24.80     99.00     99.00
 7   8 19 12     15.0 1     0.0      0.00     26.40     99.00     99.00
 7   8 19 13     15.0 1     0.0      0.00     27.80     99.00     99.00
 7   8 19 14     15.0 1   342.0      0.50     28.80     99.00     99.00
 7   8 19 15     15.0 1     2.0      1.00     29.50     99.00     99.00
 7   8 19 16     15.0 1    13.0      1.50     29.60     99.00     99.00
 7   8 19 17     15.0 1     8.0      2.10     29.50     99.00     99.00
 7   8 19 18     15.0 1    19.0      2.60     28.90     99.00     99.00
 7   8 19 19     15.0 1    25.0      3.10     27.60     99.00     99.00
 7   8 19 20     15.0 1    17.0      2.60     26.30     99.00     99.00
 7   8 19 21     15.0 1     0.0      0.00     25.10     99.00     99.00
 7   8 19 22     15.0 1   279.0      1.50     23.90     99.00     99.00
 7   8 19 23     15.0 1   276.0      3.10     22.60     99.00     99.00
 7   8 19 24     15.0 1   292.0      3.10     21.60     99.00     99.00
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 7  8 20  1    15.0 1   299.0     3.10    20.90    99.00    99.00
 7  8 20  2    15.0 1   314.0     2.60    20.30    99.00    99.00
 7  8 20  3    15.0 1   316.0     2.10    19.80    99.00    99.00
 7  8 20  4    15.0 1   327.0     2.10    19.30    99.00    99.00
 7  8 20  5    15.0 1   331.0     1.50    18.80    99.00    99.00
 7  8 20  6    15.0 1   318.0     1.50    18.30    99.00    99.00
 7  8 20  7    15.0 1   326.0     2.10    19.10    99.00    99.00
 7  8 20  8    15.0 1   327.0     0.50    21.00    99.00    99.00
 7  8 20  9    15.0 1     0.0     0.00    23.50    99.00    99.00
 7  8 20 10    15.0 1     0.0     0.00    25.40    99.00    99.00
 7  8 20 11    15.0 1     0.0     0.00    27.10    99.00    99.00
 7  8 20 12    15.0 1     0.0     0.00    28.50    99.00    99.00
 7  8 20 13    15.0 1     0.0     0.00    29.90    99.00    99.00
 7  8 20 14    15.0 1     0.0     0.00    31.10    99.00    99.00
 7  8 20 15    15.0 1   357.0     1.00    31.60    99.00    99.00
 7  8 20 16    15.0 1     8.0     1.50    31.90    99.00    99.00
 7  8 20 17    15.0 1    12.0     2.10    31.30    99.00    99.00
 7  8 20 18    15.0 1     7.0     3.10    30.50    99.00    99.00
 7  8 20 19    15.0 1     7.0     4.10    29.00    99.00    99.00
 7  8 20 20    15.0 1     9.0     3.10    27.90    99.00    99.00
 7  8 20 21    15.0 1   326.0     1.50    26.80    99.00    99.00
 7  8 20 22    15.0 1   305.0     1.50    25.60    99.00    99.00
 7  8 20 23    15.0 1   305.0     2.60    24.60    99.00    99.00
 7  8 20 24    15.0 1   311.0     3.10    23.80    99.00    99.00
 7  8 21  1    15.0 1   325.0     3.10    23.00    99.00    99.00
 7  8 21  2    15.0 1   329.0     3.60    22.40    99.00    99.00
 7  8 21  3    15.0 1   340.0     3.60    21.40    99.00    99.00
 7  8 21  4    15.0 1   351.0     3.10    20.60    99.00    99.00
 7  8 21  5    15.0 1   346.0     3.10    20.10    99.00    99.00
 7  8 21  6    15.0 1   355.0     2.60    19.90    99.00    99.00
 7  8 21  7    15.0 1     1.0     3.10    20.80    99.00    99.00
 7  8 21  8    15.0 1     0.0     0.00    22.40    99.00    99.00
 7  8 21  9    15.0 1     0.0     0.00    24.40    99.00    99.00
 7  8 21 10    15.0 1     0.0     0.00    26.00    99.00    99.00
 7  8 21 11    15.0 1     0.0     0.00    27.50    99.00    99.00
 7  8 21 12    15.0 1     0.0     0.00    29.10    99.00    99.00
 7  8 21 13    15.0 1     0.0     0.00    30.60    99.00    99.00
 7  8 21 14    15.0 1     0.0     0.00    31.60    99.00    99.00
 7  8 21 15    15.0 1    13.0     0.50    32.30    99.00    99.00
 7  8 21 16    15.0 1    35.0     1.50    32.50    99.00    99.00
 7  8 21 17    15.0 1    38.0     1.50    32.40    99.00    99.00
 7  8 21 18    15.0 1    44.0     2.10    32.00    99.00    99.00
 7  8 21 19    15.0 1    40.0     2.10    30.60    99.00    99.00
 7  8 21 20    15.0 1   347.0     0.50    29.50    99.00    99.00
 7  8 21 21    15.0 1   285.0     3.60    27.90    99.00    99.00
 7  8 21 22    15.0 1   284.0     4.60    24.60    99.00    99.00
 7  8 21 23    15.0 1   277.0     3.60    23.50    99.00    99.00
 7  8 21 24    15.0 1   271.0     3.10    22.90    99.00    99.00
 7  8 22  1    15.0 1   266.0     3.10    22.40    99.00    99.00
 7  8 22  2    15.0 1   283.0     2.60    21.90    99.00    99.00
 7  8 22  3    15.0 1   294.0     2.60    21.60    99.00    99.00
 7  8 22  4    15.0 1   302.0     2.10    21.30    99.00    99.00
 7  8 22  5    15.0 1   297.0     2.10    21.00    99.00    99.00
 7  8 22  6    15.0 1   286.0     2.10    20.60    99.00    99.00
 7  8 22  7    15.0 1   313.0     2.10    21.40    99.00    99.00
 7  8 22  8    15.0 1   298.0     0.50    22.90    99.00    99.00
 7  8 22  9    15.0 1     0.0     0.00    24.90    99.00    99.00
 7  8 22 10    15.0 1     0.0     0.00    26.60    99.00    99.00
 7  8 22 11    15.0 1     0.0     0.00    28.30    99.00    99.00
 7  8 22 12    15.0 1     0.0     0.00    29.90    99.00    99.00
 7  8 22 13    15.0 1     0.0     0.00    31.30    99.00    99.00
 7  8 22 14    15.0 1   312.0     0.50    32.40    99.00    99.00
 7  8 22 15    15.0 1   345.0     1.00    33.10    99.00    99.00
 7  8 22 16    15.0 1     5.0     1.50    33.40    99.00    99.00
 7  8 22 17    15.0 1    14.0     1.50    33.30    99.00    99.00
 7  8 22 18    15.0 1   337.0     2.10    33.10    99.00    99.00
 7  8 22 19    15.0 1   281.0     4.60    30.80    99.00    99.00
 7  8 22 20    15.0 1   263.0     4.60    26.00    99.00    99.00
 7  8 22 21    15.0 1   271.0     4.60    24.00    99.00    99.00
 7  8 22 22    15.0 1   266.0     4.10    22.80    99.00    99.00
 7  8 22 23    15.0 1   266.0     3.10    21.90    99.00    99.00
 7  8 22 24    15.0 1   294.0     2.10    21.40    99.00    99.00
 7  8 23  1    15.0 1   309.0     1.50    20.90    99.00    99.00
 7  8 23  2    15.0 1   319.0     2.10    20.40    99.00    99.00
 7  8 23  3    15.0 1   334.0     2.10    20.00    99.00    99.00
 7  8 23  4    15.0 1   331.0     1.50    19.60    99.00    99.00
 7  8 23  5    15.0 1   329.0     1.00    19.30    99.00    99.00
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7	8	23	6	15.0	1	322.0	0.50	19.10	99.00	99.00
7	8	23	7	15.0	1	283.0	2.60	20.10	99.00	99.00
7	8	23	8	15.0	1	282.0	1.50	21.80	99.00	99.00
7	8	23	9	15.0	1	286.0	0.50	23.60	99.00	99.00
7	8	23	10	15.0	1	0.0	0.00	25.40	99.00	99.00
7	8	23	11	15.0	1	0.0	0.00	27.10	99.00	99.00
7	8	23	12	15.0	1	0.0	0.00	28.90	99.00	99.00
7	8	23	13	15.0	1	308.0	0.50	30.30	99.00	99.00
7	8	23	14	15.0	1	321.0	0.50	31.10	99.00	99.00
7	8	23	15	15.0	1	318.0	1.00	31.80	99.00	99.00
7	8	23	16	15.0	1	4.0	0.50	32.50	99.00	99.00
7	8	23	17	15.0	1	8.0	1.00	32.50	99.00	99.00
7	8	23	18	15.0	1	352.0	1.50	32.10	99.00	99.00
7	8	23	19	15.0	1	315.0	4.60	30.10	99.00	99.00
7	8	23	20	15.0	1	280.0	4.10	25.50	99.00	99.00
7	8	23	21	15.0	1	282.0	4.10	23.30	99.00	99.00
7	8	23	22	15.0	1	295.0	3.10	22.30	99.00	99.00
7	8	23	23	15.0	1	298.0	3.10	21.50	99.00	99.00
7	8	23	24	15.0	1	335.0	3.10	20.90	99.00	99.00
7	8	24	1	15.0	1	354.0	3.10	20.30	99.00	99.00
7	8	24	2	15.0	1	15.0	3.60	19.80	99.00	99.00
7	8	24	3	15.0	1	9.0	3.60	19.10	99.00	99.00
7	8	24	4	15.0	1	7.0	3.60	18.50	99.00	99.00
7	8	24	5	15.0	1	14.0	3.10	18.00	99.00	99.00
7	8	24	6	15.0	1	22.0	3.10	17.80	99.00	99.00
7	8	24	7	15.0	1	347.0	2.10	19.30	99.00	99.00
7	8	24	8	15.0	1	340.0	1.00	21.10	99.00	99.00
7	8	24	9	15.0	1	0.0	0.00	23.30	99.00	99.00
7	8	24	10	15.0	1	0.0	0.00	25.10	99.00	99.00
7	8	24	11	15.0	1	0.0	0.00	27.10	99.00	99.00
7	8	24	12	15.0	1	0.0	0.00	29.40	99.00	99.00
7	8	24	13	15.0	1	0.0	0.00	31.00	99.00	99.00
7	8	24	14	15.0	1	307.0	0.50	32.10	99.00	99.00
7	8	24	15	15.0	1	340.0	1.00	32.90	99.00	99.00
7	8	24	16	15.0	1	0.0	0.00	33.10	99.00	99.00
7	8	24	17	15.0	1	20.0	2.60	32.50	99.00	99.00
7	8	24	18	15.0	1	25.0	3.60	31.60	99.00	99.00
7	8	24	19	15.0	1	344.0	4.10	30.50	99.00	99.00
7	8	24	20	15.0	1	296.0	5.10	26.60	99.00	99.00
7	8	24	21	15.0	1	279.0	4.60	23.50	99.00	99.00
7	8	24	22	15.0	1	289.0	4.60	22.10	99.00	99.00
7	8	24	23	15.0	1	308.0	4.10	21.30	99.00	99.00
7	8	24	24	15.0	1	326.0	3.60	20.60	99.00	99.00
7	8	25	1	15.0	1	350.0	3.60	20.10	99.00	99.00
7	8	25	2	15.0	1	0.0	0.00	19.60	99.00	99.00
7	8	25	3	15.0	1	6.0	3.60	19.30	99.00	99.00
7	8	25	4	15.0	1	16.0	3.10	19.10	99.00	99.00
7	8	25	5	15.0	1	28.0	2.60	18.90	99.00	99.00
7	8	25	6	15.0	1	45.0	2.60	18.90	99.00	99.00
7	8	25	7	15.0	1	20.0	2.10	20.10	99.00	99.00
7	8	25	8	15.0	1	0.0	0.00	22.10	99.00	99.00
7	8	25	9	15.0	1	353.0	0.50	24.30	99.00	99.00
7	8	25	10	15.0	1	343.0	0.50	26.30	99.00	99.00
7	8	25	11	15.0	1	0.0	0.00	28.10	99.00	99.00
7	8	25	12	15.0	1	324.0	0.50	30.00	99.00	99.00
7	8	25	13	15.0	1	332.0	0.50	31.50	99.00	99.00
7	8	25	14	15.0	1	337.0	1.00	32.60	99.00	99.00
7	8	25	15	15.0	1	355.0	2.10	33.10	99.00	99.00
7	8	25	16	15.0	1	353.0	3.10	33.10	99.00	99.00
7	8	25	17	15.0	1	3.0	3.10	32.50	99.00	99.00
7	8	25	18	15.0	1	346.0	3.60	31.50	99.00	99.00
7	8	25	19	15.0	1	309.0	4.60	29.30	99.00	99.00
7	8	25	20	15.0	1	287.0	4.60	25.50	99.00	99.00
7	8	25	21	15.0	1	281.0	4.60	23.40	99.00	99.00
7	8	25	22	15.0	1	288.0	4.10	22.30	99.00	99.00
7	8	25	23	15.0	1	308.0	3.60	21.60	99.00	99.00
7	8	25	24	15.0	1	323.0	4.10	21.10	99.00	99.00
7	8	26	1	15.0	1	353.0	3.60	20.60	99.00	99.00
7	8	26	2	15.0	1	12.0	4.10	20.10	99.00	99.00
7	8	26	3	15.0	1	12.0	3.10	19.60	99.00	99.00
7	8	26	4	15.0	1	20.0	3.10	19.90	99.00	99.00
7	8	26	5	15.0	1	8.0	2.10	20.10	99.00	99.00
7	8	26	6	15.0	1	27.0	1.00	20.30	99.00	99.00
7	8	26	7	15.0	1	0.0	0.00	20.30	99.00	99.00
7	8	26	8	15.0	1	344.0	1.50	21.00	99.00	99.00
7	8	26	9	15.0	1	336.0	1.50	22.60	99.00	99.00
7	8	26	10	15.0	1	348.0	1.50	24.90	99.00	99.00

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 7   8 26 11     15.0 1    346.0      1.50     26.80     99.00     99.00
 7   8 26 12     15.0 1     15.0      1.00     28.50     99.00     99.00
 7   8 26 13     15.0 1    358.0      1.50     30.10     99.00     99.00
 7   8 26 14     15.0 1      0.0      0.00     31.40     99.00     99.00
 7   8 26 15     15.0 1      8.0      3.10     32.00     99.00     99.00
 7   8 26 16     15.0 1      6.0      3.60     32.10     99.00     99.00
 7   8 26 17     15.0 1    354.0      2.60     31.90     99.00     99.00
 7   8 26 18     15.0 1    316.0      3.60     31.00     99.00     99.00
 7   8 26 19     15.0 1    286.0      5.10     27.90     99.00     99.00
 7   8 26 20     15.0 1    285.0      5.10     25.10     99.00     99.00
 7   8 26 21     15.0 1    281.0      4.60     23.60     99.00     99.00
 7   8 26 22     15.0 1    294.0      3.10     22.80     99.00     99.00
 7   8 26 23     15.0 1    320.0      2.60     22.60     99.00     99.00
 7   8 26 24     15.0 1    354.0      3.10     21.90     99.00     99.00
 7   8 27  1     15.0 1    355.0      3.10     21.10     99.00     99.00
 7   8 27  2     15.0 1      1.0      3.60     20.50     99.00     99.00
 7   8 27  3     15.0 1      0.0      0.00     19.80     99.00     99.00
 7   8 27  4     15.0 1      0.0      0.00     19.40     99.00     99.00
 7   8 27  5     15.0 1      1.0      2.60     19.30     99.00     99.00
 7   8 27  6     15.0 1    359.0      2.10     19.10     99.00     99.00
 7   8 27  7     15.0 1    345.0      2.10     20.50     99.00     99.00
 7   8 27  8     15.0 1    340.0      1.50     22.10     99.00     99.00
 7   8 27  9     15.0 1    328.0      0.50     24.10     99.00     99.00
 7   8 27 10     15.0 1      0.0      0.00     26.00     99.00     99.00
 7   8 27 11     15.0 1      0.0      0.00     28.00     99.00     99.00
 7   8 27 12     15.0 1    332.0      0.50     29.60     99.00     99.00
 7   8 27 13     15.0 1    333.0      0.50     30.90     99.00     99.00
 7   8 27 14     15.0 1    345.0      1.00     31.80     99.00     99.00
 7   8 27 15     15.0 1    346.0      1.50     32.40     99.00     99.00
 7   8 27 16     15.0 1    350.0      2.60     32.60     99.00     99.00
 7   8 27 17     15.0 1      0.0      0.00     32.10     99.00     99.00
 7   8 27 18     15.0 1      0.0      0.00     31.60     99.00     99.00
 7   8 27 19     15.0 1    332.0      3.60     30.50     99.00     99.00
 7   8 27 20     15.0 1    294.0      4.60     27.90     99.00     99.00
 7   8 27 21     15.0 1    284.0      3.60     25.00     99.00     99.00
 7   8 27 22     15.0 1    289.0      3.10     23.90     99.00     99.00
 7   8 27 23     15.0 1    311.0      3.10     23.10     99.00     99.00
 7   8 27 24     15.0 1    334.0      3.10     22.10     99.00     99.00
 7   8 28  1     15.0 1    336.0      3.10     21.60     99.00     99.00
 7   8 28  2     15.0 1      2.0      3.10     21.10     99.00     99.00
 7   8 28  3     15.0 1     11.0      3.10     20.90     99.00     99.00
 7   8 28  4     15.0 1     24.0      2.60     20.60     99.00     99.00
 7   8 28  5     15.0 1     21.0      1.50     20.50     99.00     99.00
 7   8 28  6     15.0 1     27.0      1.00     20.30     99.00     99.00
 7   8 28  7     15.0 1      5.0      1.00     21.10     99.00     99.00
 7   8 28  8     15.0 1    341.0      0.50     23.10     99.00     99.00
 7   8 28  9     15.0 1      0.0      0.00     25.10     99.00     99.00
 7   8 28 10     15.0 1      0.0      0.00     27.10     99.00     99.00
 7   8 28 11     15.0 1      0.0      0.00     29.10     99.00     99.00
 7   8 28 12     15.0 1      0.0      0.00     31.00     99.00     99.00
 7   8 28 13     15.0 1    308.0      0.50     32.50     99.00     99.00
 7   8 28 14     15.0 1    314.0      0.50     33.60     99.00     99.00
 7   8 28 15     15.0 1    334.0      1.00     34.50     99.00     99.00
 7   8 28 16     15.0 1      2.0      2.10     34.80     99.00     99.00
 7   8 28 17     15.0 1      9.0      2.10     34.10     99.00     99.00
 7   8 28 18     15.0 1      9.0      3.10     33.40     99.00     99.00
 7   8 28 19     15.0 1     24.0      3.10     32.10     99.00     99.00
 7   8 28 20     15.0 1    318.0      2.10     31.10     99.00     99.00
 7   8 28 21     15.0 1    290.0      4.60     28.90     99.00     99.00
 7   8 28 22     15.0 1    282.0      4.10     26.40     99.00     99.00
 7   8 28 23     15.0 1    293.0      3.60     25.50     99.00     99.00
 7   8 28 24     15.0 1    316.0      3.10     24.80     99.00     99.00
 7   8 29  1     15.0 1      0.0      0.00     24.10     99.00     99.00
 7   8 29  2     15.0 1     23.0      3.10     23.60     99.00     99.00
 7   8 29  3     15.0 1     33.0      2.60     23.30     99.00     99.00
 7   8 29  4     15.0 1     34.0      2.10     23.00     99.00     99.00
 7   8 29  5     15.0 1     17.0      1.00     22.80     99.00     99.00
 7   8 29  6     15.0 1      0.0      0.00     22.50     99.00     99.00
 7   8 29  7     15.0 1      0.0      0.00     23.10     99.00     99.00
 7   8 29  8     15.0 1      0.0      0.00     25.50     99.00     99.00
 7   8 29  9     15.0 1      0.0      0.00     27.40     99.00     99.00
 7   8 29 10     15.0 1      0.0      0.00     29.50     99.00     99.00
 7   8 29 11     15.0 1      0.0      0.00     30.80     99.00     99.00
 7   8 29 12     15.0 1      0.0      0.00     32.10     99.00     99.00
 7   8 29 13     15.0 1      0.0      0.00     33.30     99.00     99.00
 7   8 29 14     15.0 1      0.0      0.00     34.10     99.00     99.00
 7   8 29 15     15.0 1     11.0      1.00     34.60     99.00     99.00
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 7   8 29 16     15.0 1     6.0      1.50    34.60    99.00    99.00
 7   8 29 17     15.0 1     9.0      2.60    34.10    99.00    99.00
 7   8 29 18     15.0 1    23.0      2.60    33.40    99.00    99.00
 7   8 29 19     15.0 1    10.0      1.00    32.10    99.00    99.00
 7   8 29 20     15.0 1   244.0      1.00    30.90    99.00    99.00
 7   8 29 21     15.0 1   278.0      3.10    30.10    99.00    99.00
 7   8 29 22     15.0 1   303.0      4.10    28.30    99.00    99.00
 7   8 29 23     15.0 1   312.0      3.10    27.30    99.00    99.00
 7   8 29 24     15.0 1   345.0      3.10    26.80    99.00    99.00
 7   8 30  1     15.0 1   329.0      4.10    26.30    99.00    99.00
 7   8 30  2     15.0 1   319.0      4.60    25.80    99.00    99.00
 7   8 30  3     15.0 1   328.0      3.60    25.60    99.00    99.00
 7   8 30  4     15.0 1   346.0      3.10    25.90    99.00    99.00
 7   8 30  5     15.0 1     0.0      0.00    26.60    99.00    99.00
 7   8 30  6     15.0 1   348.0      4.60    27.60    99.00    99.00
 7   8 30  7     15.0 1   360.0      7.70    27.80    99.00    99.00
 7   8 30  8     15.0 1    17.0      6.20    27.10    99.00    99.00
 7   8 30  9     15.0 1    14.0      4.10    28.00    99.00    99.00
 7   8 30 10     15.0 1    11.0      4.10    29.60    99.00    99.00
 7   8 30 11     15.0 1    30.0      5.10    31.60    99.00    99.00
 7   8 30 12     15.0 1    33.0      4.60    33.50    99.00    99.00
 7   8 30 13     15.0 1    32.0      3.60    34.60    99.00    99.00
 7   8 30 14     15.0 1    22.0      3.10    35.10    99.00    99.00
 7   8 30 15     15.0 1    17.0      3.10    35.30    99.00    99.00
 7   8 30 16     15.0 1    17.0      2.60    35.00    99.00    99.00
 7   8 30 17     15.0 1   354.0      1.50    35.10    99.00    99.00
 7   8 30 18     15.0 1   257.0      2.60    34.90    99.00    99.00
 7   8 30 19     15.0 1   272.0      4.10    33.40    99.00    99.00
 7   8 30 20     15.0 1   280.0      4.60    31.30    99.00    99.00
 7   8 30 21     15.0 1   278.0      4.10    29.90    99.00    99.00
 7   8 30 22     15.0 1   269.0      2.60    29.30    99.00    99.00
 7   8 30 23     15.0 1   267.0      2.60    28.60    99.00    99.00
 7   8 30 24     15.0 1   288.0      3.10    27.60    99.00    99.00
 7   8 31  1     15.0 1   298.0      3.10    26.80    99.00    99.00
 7   8 31  2     15.0 1   303.0      3.10    26.10    99.00    99.00
 7   8 31  3     15.0 1   314.0      3.60    25.50    99.00    99.00
 7   8 31  4     15.0 1   321.0      3.10    25.00    99.00    99.00
 7   8 31  5     15.0 1   338.0      3.10    24.60    99.00    99.00
 7   8 31  6     15.0 1   353.0      3.10    24.50    99.00    99.00
 7   8 31  7     15.0 1   352.0      2.60    24.90    99.00    99.00
 7   8 31  8     15.0 1   335.0      2.10    27.00    99.00    99.00
 7   8 31  9     15.0 1   332.0      1.00    28.60    99.00    99.00
 7   8 31 10     15.0 1     0.0      0.00    30.10    99.00    99.00
 7   8 31 11     15.0 1     0.0      0.00    31.80    99.00    99.00
 7   8 31 12     15.0 1   282.0      0.50    33.10    99.00    99.00
 7   8 31 13     15.0 1   328.0      0.50    34.10    99.00    99.00
 7   8 31 14     15.0 1   360.0      1.00    34.90    99.00    99.00
 7   8 31 15     15.0 1    14.0      2.10    35.30    99.00    99.00
 7   8 31 16     15.0 1     6.0      2.60    35.40    99.00    99.00
 7   8 31 17     15.0 1     0.0      0.00    35.10    99.00    99.00
 7   8 31 18     15.0 1   357.0      2.10    34.60    99.00    99.00
 7   8 31 19     15.0 1   355.0      2.10    33.30    99.00    99.00
 7   8 31 20     15.0 1   321.0      1.00    32.10    99.00    99.00
 7   8 31 21     15.0 1   295.0      3.10    31.10    99.00    99.00
 7   8 31 22     15.0 1   286.0      4.10    28.10    99.00    99.00
 7   8 31 23     15.0 1   286.0      3.10    26.90    99.00    99.00
 7   8 31 24     15.0 1   300.0      3.10    26.50    99.00    99.00
 7   9  1  1     15.0 1   300.0      3.10    26.00    99.00    99.00
 7   9  1  2     15.0 1   314.0      3.60    25.30    99.00    99.00
 7   9  1  3     15.0 1   328.0      3.10    24.90    99.00    99.00
 7   9  1  4     15.0 1   328.0      2.60    24.50    99.00    99.00
 7   9  1  5     15.0 1   334.0      2.10    24.00    99.00    99.00
 7   9  1  6     15.0 1   328.0      1.50    23.60    99.00    99.00
 7   9  1  7     15.0 1   354.0      2.10    23.80    99.00    99.00
 7   9  1  8     15.0 1   346.0      1.00    25.10    99.00    99.00
 7   9  1  9     15.0 1     0.0      0.00    27.30    99.00    99.00
 7   9  1 10     15.0 1     0.0      0.00    29.00    99.00    99.00
 7   9  1 11     15.0 1     0.0      0.00    30.90    99.00    99.00
 7   9  1 12     15.0 1     0.0      0.00    32.50    99.00    99.00
 7   9  1 13     15.0 1     0.0      0.00    33.80    99.00    99.00
 7   9  1 14     15.0 1   323.0      0.50    34.60    99.00    99.00
 7   9  1 15     15.0 1   348.0      1.50    35.10    99.00    99.00
 7   9  1 16     15.0 1     8.0      2.60    35.10    99.00    99.00
 7   9  1 17     15.0 1     8.0      2.60    34.60    99.00    99.00
 7   9  1 18     15.0 1    21.0      3.60    33.80    99.00    99.00
 7   9  1 19     15.0 1    12.0      3.10    32.60    99.00    99.00
 7   9  1 20     15.0 1   354.0      2.10    31.50    99.00    99.00
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 7  9  1 21    15.0 1   319.0     3.10    30.60    99.00    99.00
 7  9  1 22    15.0 1   323.0     4.10    29.10    99.00    99.00
 7  9  1 23    15.0 1   332.0     3.60    27.90    99.00    99.00
 7  9  1 24    15.0 1   336.0     3.60    26.90    99.00    99.00
 7  9  2  1    15.0 1   346.0     3.60    25.90    99.00    99.00
 7  9  2  2    15.0 1   350.0     3.10    25.10    99.00    99.00
 7  9  2  3    15.0 1   350.0     3.10    24.50    99.00    99.00
 7  9  2  4    15.0 1   336.0     2.60    24.00    99.00    99.00
 7  9  2  5    15.0 1   334.0     1.50    23.60    99.00    99.00
 7  9  2  6    15.0 1   320.0     1.00    23.30    99.00    99.00
 7  9  2  7    15.0 1   345.0     1.50    23.50    99.00    99.00
 7  9  2  8    15.0 1   340.0     1.00    24.60    99.00    99.00
 7  9  2  9    15.0 1     0.0     0.00    26.80    99.00    99.00
 7  9  2 10    15.0 1   297.0     0.50    28.60    99.00    99.00
 7  9  2 11    15.0 1   314.0     0.50    30.10    99.00    99.00
 7  9  2 12    15.0 1   316.0     1.00    31.60    99.00    99.00
 7  9  2 13    15.0 1   339.0     1.50    32.80    99.00    99.00
 7  9  2 14    15.0 1   354.0     2.60    33.60    99.00    99.00
 7  9  2 15    15.0 1   354.0     3.10    33.90    99.00    99.00
 7  9  2 16    15.0 1   352.0     3.10    33.60    99.00    99.00
 7  9  2 17    15.0 1   353.0     2.10    33.40    99.00    99.00
 7  9  2 18    15.0 1   351.0     2.60    32.90    99.00    99.00
 7  9  2 19    15.0 1   328.0     2.60    31.60    99.00    99.00
 7  9  2 20    15.0 1   316.0     3.60    30.30    99.00    99.00
 7  9  2 21    15.0 1   316.0     4.10    28.30    99.00    99.00
 7  9  2 22    15.0 1   329.0     3.60    27.10    99.00    99.00
 7  9  2 23    15.0 1   345.0     3.60    26.10    99.00    99.00
 7  9  2 24    15.0 1   347.0     3.60    24.90    99.00    99.00
 7  9  3  1    15.0 1   356.0     3.60    23.60    99.00    99.00
 7  9  3  2    15.0 1   358.0     3.10    22.80    99.00    99.00
 7  9  3  3    15.0 1     0.0     0.00    22.10    99.00    99.00
 7  9  3  4    15.0 1   359.0     2.60    21.50    99.00    99.00
 7  9  3  5    15.0 1   351.0     2.10    21.00    99.00    99.00
 7  9  3  6    15.0 1   333.0     1.50    20.60    99.00    99.00
 7  9  3  7    15.0 1   345.0     2.60    20.90    99.00    99.00
 7  9  3  8    15.0 1   341.0     1.50    22.10    99.00    99.00
 7  9  3  9    15.0 1   322.0     0.50    24.30    99.00    99.00
 7  9  3 10    15.0 1   301.0     0.50    26.10    99.00    99.00
 7  9  3 11    15.0 1     0.0     0.00    27.90    99.00    99.00
 7  9  3 12    15.0 1   316.0     0.50    29.50    99.00    99.00
 7  9  3 13    15.0 1   336.0     1.00    30.60    99.00    99.00
 7  9  3 14    15.0 1   355.0     1.50    31.40    99.00    99.00
 7  9  3 15    15.0 1     0.0     0.00    31.80    99.00    99.00
 7  9  3 16    15.0 1     7.0     2.10    31.90    99.00    99.00
 7  9  3 17    15.0 1    16.0     1.50    31.80    99.00    99.00
 7  9  3 18    15.0 1    16.0     1.50    31.10    99.00    99.00
 7  9  3 19    15.0 1     5.0     1.00    30.30    99.00    99.00
 7  9  3 20    15.0 1   322.0     2.10    29.30    99.00    99.00
 7  9  3 21    15.0 1   322.0     3.60    27.90    99.00    99.00
 7  9  3 22    15.0 1   340.0     4.10    26.10    99.00    99.00
 7  9  3 23    15.0 1   348.0     4.10    24.60    99.00    99.00
 7  9  3 24    15.0 1   353.0     3.60    23.30    99.00    99.00
 7  9  4  1    15.0 1   343.0     3.60    22.30    99.00    99.00
 7  9  4  2    15.0 1   352.0     3.10    21.40    99.00    99.00
 7  9  4  3    15.0 1   352.0     2.60    20.80    99.00    99.00
 7  9  4  4    15.0 1   351.0     2.60    20.30    99.00    99.00
 7  9  4  5    15.0 1   354.0     2.10    19.80    99.00    99.00
 7  9  4  6    15.0 1   347.0     1.50    19.30    99.00    99.00
 7  9  4  7    15.0 1   346.0     3.10    19.40    99.00    99.00
 7  9  4  8    15.0 1   339.0     2.60    20.50    99.00    99.00
 7  9  4  9    15.0 1   331.0     1.50    21.60    99.00    99.00
 7  9  4 10    15.0 1   322.0     1.50    22.90    99.00    99.00
 7  9  4 11    15.0 1   320.0     1.50    24.30    99.00    99.00
 7  9  4 12    15.0 1   329.0     2.10    25.60    99.00    99.00
 7  9  4 13    15.0 1   331.0     2.60    26.60    99.00    99.00
 7  9  4 14    15.0 1   335.0     3.10    27.10    99.00    99.00
 7  9  4 15    15.0 1   345.0     3.60    27.30    99.00    99.00
 7  9  4 16    15.0 1   343.0     4.60    27.00    99.00    99.00
 7  9  4 17    15.0 1   352.0     3.60    26.30    99.00    99.00
 7  9  4 18    15.0 1   344.0     3.60    25.00    99.00    99.00
 7  9  4 19    15.0 1   334.0     4.10    23.10    99.00    99.00
 7  9  4 20    15.0 1   334.0     3.60    22.00    99.00    99.00
 7  9  4 21    15.0 1   331.0     3.10    21.10    99.00    99.00
 7  9  4 22    15.0 1   325.0     2.60    20.50    99.00    99.00
 7  9  4 23    15.0 1   297.0     2.60    20.00    99.00    99.00
 7  9  4 24    15.0 1   277.0     2.10    19.60    99.00    99.00
 7  9  5  1    15.0 1   294.0     1.50    19.10    99.00    99.00
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 7  9  5  2    15.0 1   325.0     0.50    18.60    99.00    99.00
 7  9  5  3    15.0 1   328.0     0.50    18.40    99.00    99.00
 7  9  5  4    15.0 1   317.0     0.50    18.00    99.00    99.00
 7  9  5  5    15.0 1   325.0     1.00    17.60    99.00    99.00
 7  9  5  6    15.0 1   323.0     1.00    17.30    99.00    99.00
 7  9  5  7    15.0 1   332.0     1.00    17.60    99.00    99.00
 7  9  5  8    15.0 1   313.0     0.50    19.10    99.00    99.00
 7  9  5  9    15.0 1     0.0     0.00    20.80    99.00    99.00
 7  9  5 10    15.0 1     0.0     0.00    22.40    99.00    99.00
 7  9  5 11    15.0 1     0.0     0.00    24.10    99.00    99.00
 7  9  5 12    15.0 1     0.0     0.00    25.90    99.00    99.00
 7  9  5 13    15.0 1     0.0     0.00    27.10    99.00    99.00
 7  9  5 14    15.0 1   330.0     0.50    28.00    99.00    99.00
 7  9  5 15    15.0 1   345.0     1.00    28.60    99.00    99.00
 7  9  5 16    15.0 1   351.0     1.50    28.60    99.00    99.00
 7  9  5 17    15.0 1   358.0     2.10    28.40    99.00    99.00
 7  9  5 18    15.0 1     0.0     0.00    27.80    99.00    99.00
 7  9  5 19    15.0 1     8.0     3.10    26.60    99.00    99.00
 7  9  5 20    15.0 1     7.0     1.50    25.40    99.00    99.00
 7  9  5 21    15.0 1   280.0     0.50    24.10    99.00    99.00
 7  9  5 22    15.0 1   276.0     3.10    22.80    99.00    99.00
 7  9  5 23    15.0 1   294.0     3.10    21.50    99.00    99.00
 7  9  5 24    15.0 1   304.0     3.10    20.60    99.00    99.00
 7  9  6  1    15.0 1   311.0     2.60    20.00    99.00    99.00
 7  9  6  2    15.0 1   318.0     3.10    19.50    99.00    99.00
 7  9  6  3    15.0 1   310.0     3.10    18.90    99.00    99.00
 7  9  6  4    15.0 1   312.0     2.60    18.40    99.00    99.00
 7  9  6  5    15.0 1   305.0     2.60    18.00    99.00    99.00
 7  9  6  6    15.0 1   300.0     2.60    17.60    99.00    99.00
 7  9  6  7    15.0 1   313.0     2.60    18.40    99.00    99.00
 7  9  6  8    15.0 1   312.0     2.60    20.60    99.00    99.00
 7  9  6  9    15.0 1   309.0     1.50    22.60    99.00    99.00
 7  9  6 10    15.0 1   301.0     1.00    24.80    99.00    99.00
 7  9  6 11    15.0 1     0.0     0.00    26.80    99.00    99.00
 7  9  6 12    15.0 1     0.0     0.00    28.60    99.00    99.00
 7  9  6 13    15.0 1     0.0     0.00    30.00    99.00    99.00
 7  9  6 14    15.0 1   341.0     0.50    31.00    99.00    99.00
 7  9  6 15    15.0 1   346.0     1.00    31.60    99.00    99.00
 7  9  6 16    15.0 1     0.0     0.00    31.60    99.00    99.00
 7  9  6 17    15.0 1     7.0     2.60    31.10    99.00    99.00
 7  9  6 18    15.0 1   334.0     3.60    30.10    99.00    99.00
 7  9  6 19    15.0 1   293.0     4.60    26.10    99.00    99.00
 7  9  6 20    15.0 1   284.0     5.10    22.60    99.00    99.00
 7  9  6 21    15.0 1   285.0     5.10    21.00    99.00    99.00
 7  9  6 22    15.0 1   281.0     4.10    19.90    99.00    99.00
 7  9  6 23    15.0 1   305.0     3.10    19.30    99.00    99.00
 7  9  6 24    15.0 1   334.0     3.10    18.90    99.00    99.00
 7  9  7  1    15.0 1   348.0     3.10    18.60    99.00    99.00
 7  9  7  2    15.0 1     0.0     0.00    18.30    99.00    99.00
 7  9  7  3    15.0 1    13.0     2.60    17.90    99.00    99.00
 7  9  7  4    15.0 1     0.0     0.00    17.60    99.00    99.00
 7  9  7  5    15.0 1    15.0     1.50    17.40    99.00    99.00
 7  9  7  6    15.0 1    44.0     1.00    17.10    99.00    99.00
 7  9  7  7    15.0 1   323.0     0.50    18.00    99.00    99.00
 7  9  7  8    15.0 1     0.0     0.00    19.90    99.00    99.00
 7  9  7  9    15.0 1     0.0     0.00    21.60    99.00    99.00
 7  9  7 10    15.0 1     0.0     0.00    23.50    99.00    99.00
 7  9  7 11    15.0 1     0.0     0.00    25.60    99.00    99.00
 7  9  7 12    15.0 1     0.0     0.00    27.30    99.00    99.00
 7  9  7 13    15.0 1   318.0     0.50    28.60    99.00    99.00
 7  9  7 14    15.0 1   335.0     0.50    29.80    99.00    99.00
 7  9  7 15    15.0 1   345.0     1.50    30.50    99.00    99.00
 7  9  7 16    15.0 1     5.0     2.10    30.90    99.00    99.00
 7  9  7 17    15.0 1     6.0     2.60    30.30    99.00    99.00
 7  9  7 18    15.0 1    11.0     3.60    29.30    99.00    99.00
 7  9  7 19    15.0 1   328.0     3.60    27.90    99.00    99.00
 7  9  7 20    15.0 1   289.0     4.60    24.10    99.00    99.00
 7  9  7 21    15.0 1   266.0     4.60    21.40    99.00    99.00
 7  9  7 22    15.0 1   285.0     4.60    20.10    99.00    99.00
 7  9  7 23    15.0 1   278.0     4.10    19.10    99.00    99.00
 7  9  7 24    15.0 1   297.0     3.10    18.40    99.00    99.00
 7  9  8  1    15.0 1   339.0     2.60    18.00    99.00    99.00
 7  9  8  2    15.0 1     0.0     0.00    17.50    99.00    99.00
 7  9  8  3    15.0 1   356.0     2.10    17.00    99.00    99.00
 7  9  8  4    15.0 1   347.0     2.10    16.80    99.00    99.00
 7  9  8  5    15.0 1   340.0     1.50    16.60    99.00    99.00
 7  9  8  6    15.0 1     9.0     0.50    16.40    99.00    99.00
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 7  9  8  7    15.0 1   346.0     0.50    17.00    99.00    99.00
 7  9  8  8    15.0 1     0.0     0.00    18.80    99.00    99.00
 7  9  8  9    15.0 1     0.0     0.00    20.60    99.00    99.00
 7  9  8 10    15.0 1     0.0     0.00    22.50    99.00    99.00
 7  9  8 11    15.0 1     0.0     0.00    24.50    99.00    99.00
 7  9  8 12    15.0 1     0.0     0.00    26.30    99.00    99.00
 7  9  8 13    15.0 1   310.0     0.50    27.90    99.00    99.00
 7  9  8 14    15.0 1   335.0     1.00    29.00    99.00    99.00
 7  9  8 15    15.0 1   352.0     1.50    29.60    99.00    99.00
 7  9  8 16    15.0 1     9.0     2.60    29.80    99.00    99.00
 7  9  8 17    15.0 1    22.0     2.60    29.10    99.00    99.00
 7  9  8 18    15.0 1    33.0     3.10    28.50    99.00    99.00
 7  9  8 19    15.0 1   317.0     2.60    27.50    99.00    99.00
 7  9  8 20    15.0 1   280.0     5.10    23.90    99.00    99.00
 7  9  8 21    15.0 1   269.0     4.60    21.30    99.00    99.00
 7  9  8 22    15.0 1   285.0     4.10    20.30    99.00    99.00
 7  9  8 23    15.0 1   292.0     2.60    19.60    99.00    99.00
 7  9  8 24    15.0 1   325.0     2.10    19.10    99.00    99.00
 7  9  9  1    15.0 1   359.0     2.10    18.60    99.00    99.00
 7  9  9  2    15.0 1   359.0     1.00    18.30    99.00    99.00
 7  9  9  3    15.0 1   338.0     0.50    17.90    99.00    99.00
 7  9  9  4    15.0 1     0.0     0.00    17.60    99.00    99.00
 7  9  9  5    15.0 1     0.0     0.00    17.50    99.00    99.00
 7  9  9  6    15.0 1     0.0     0.00    17.30    99.00    99.00
 7  9  9  7    15.0 1     0.0     0.00    17.60    99.00    99.00
 7  9  9  8    15.0 1     0.0     0.00    19.60    99.00    99.00
 7  9  9  9    15.0 1     0.0     0.00    21.40    99.00    99.00
 7  9  9 10    15.0 1     0.0     0.00    23.10    99.00    99.00
 7  9  9 11    15.0 1     0.0     0.00    25.10    99.00    99.00
 7  9  9 12    15.0 1     0.0     0.00    26.80    99.00    99.00
 7  9  9 13    15.0 1   315.0     0.50    28.10    99.00    99.00
 7  9  9 14    15.0 1   335.0     1.00    29.30    99.00    99.00
 7  9  9 15    15.0 1     4.0     2.10    29.90    99.00    99.00
 7  9  9 16    15.0 1    15.0     3.10    29.90    99.00    99.00
 7  9  9 17    15.0 1    21.0     2.60    29.50    99.00    99.00
 7  9  9 18    15.0 1   325.0     4.10    28.80    99.00    99.00
 7  9  9 19    15.0 1   279.0     5.10    24.60    99.00    99.00
 7  9  9 20    15.0 1   269.0     5.10    21.60    99.00    99.00
 7  9  9 21    15.0 1   279.0     4.10    20.10    99.00    99.00
 7  9  9 22    15.0 1   289.0     3.10    19.30    99.00    99.00
 7  9  9 23    15.0 1   323.0     1.50    19.10    99.00    99.00
 7  9  9 24    15.0 1    10.0     1.50    18.60    99.00    99.00
 7  9 10  1    15.0 1    35.0     1.50    18.40    99.00    99.00
 7  9 10  2    15.0 1    29.0     1.00    18.00    99.00    99.00
 7  9 10  3    15.0 1     0.0     0.00    17.60    99.00    99.00
 7  9 10  4    15.0 1     0.0     0.00    17.50    99.00    99.00
 7  9 10  5    15.0 1     0.0     0.00    17.30    99.00    99.00
 7  9 10  6    15.0 1     0.0     0.00    16.90    99.00    99.00
 7  9 10  7    15.0 1     0.0     0.00    17.10    99.00    99.00
 7  9 10  8    15.0 1     0.0     0.00    19.40    99.00    99.00
 7  9 10  9    15.0 1     0.0     0.00    21.30    99.00    99.00
 7  9 10 10    15.0 1     0.0     0.00    23.00    99.00    99.00
 7  9 10 11    15.0 1     0.0     0.00    24.60    99.00    99.00
 7  9 10 12    15.0 1     0.0     0.00    26.00    99.00    99.00
 7  9 10 13    15.0 1     1.0     0.50    27.10    99.00    99.00
 7  9 10 14    15.0 1     6.0     0.50    28.10    99.00    99.00
 7  9 10 15    15.0 1    16.0     1.50    28.80    99.00    99.00
 7  9 10 16    15.0 1    28.0     2.10    29.00    99.00    99.00
 7  9 10 17    15.0 1    40.0     1.50    28.80    99.00    99.00
 7  9 10 18    15.0 1    46.0     1.50    28.10    99.00    99.00
 7  9 10 19    15.0 1   283.0     0.50    27.10    99.00    99.00
 7  9 10 20    15.0 1   278.0     4.60    25.10    99.00    99.00
 7  9 10 21    15.0 1   285.0     4.10    21.60    99.00    99.00
 7  9 10 22    15.0 1   284.0     3.60    20.40    99.00    99.00
 7  9 10 23    15.0 1   290.0     2.60    19.90    99.00    99.00
 7  9 10 24    15.0 1   309.0     1.50    19.60    99.00    99.00
 7  9 11  1    15.0 1   299.0     1.50    19.50    99.00    99.00
 7  9 11  2    15.0 1   298.0     1.00    19.30    99.00    99.00
 7  9 11  3    15.0 1   319.0     1.00    19.00    99.00    99.00
 7  9 11  4    15.0 1   333.0     0.50    18.60    99.00    99.00
 7  9 11  5    15.0 1   345.0     0.50    18.10    99.00    99.00
 7  9 11  6    15.0 1   354.0     0.50    17.80    99.00    99.00
 7  9 11  7    15.0 1     0.0     0.00    17.90    99.00    99.00
 7  9 11  8    15.0 1   328.0     1.00    19.80    99.00    99.00
 7  9 11  9    15.0 1   303.0     0.50    21.30    99.00    99.00
 7  9 11 10    15.0 1     0.0     0.00    22.90    99.00    99.00
 7  9 11 11    15.0 1     0.0     0.00    24.60    99.00    99.00
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 7  9 11 12    15.0 1   335.0     0.50    26.10    99.00    99.00
 7  9 11 13    15.0 1   336.0     1.00    27.40    99.00    99.00
 7  9 11 14    15.0 1   346.0     1.00    28.40    99.00    99.00
 7  9 11 15    15.0 1     3.0     1.50    28.90    99.00    99.00
 7  9 11 16    15.0 1    13.0     2.10    29.10    99.00    99.00
 7  9 11 17    15.0 1    22.0     2.10    28.80    99.00    99.00
 7  9 11 18    15.0 1    29.0     2.60    28.10    99.00    99.00
 7  9 11 19    15.0 1    13.0     1.50    27.00    99.00    99.00
 7  9 11 20    15.0 1   276.0     3.10    25.60    99.00    99.00
 7  9 11 21    15.0 1   272.0     4.60    22.10    99.00    99.00
 7  9 11 22    15.0 1   278.0     4.60    20.10    99.00    99.00
 7  9 11 23    15.0 1   301.0     3.60    19.50    99.00    99.00
 7  9 11 24    15.0 1   325.0     3.10    19.10    99.00    99.00
 7  9 12  1    15.0 1   340.0     3.10    18.90    99.00    99.00
 7  9 12  2    15.0 1   355.0     2.60    18.40    99.00    99.00
 7  9 12  3    15.0 1   343.0     2.10    17.80    99.00    99.00
 7  9 12  4    15.0 1   326.0     1.50    17.10    99.00    99.00
 7  9 12  5    15.0 1   308.0     1.50    16.60    99.00    99.00
 7  9 12  6    15.0 1   306.0     1.00    16.10    99.00    99.00
 7  9 12  7    15.0 1   327.0     1.50    16.10    99.00    99.00
 7  9 12  8    15.0 1   329.0     0.50    17.30    99.00    99.00
 7  9 12  9    15.0 1     0.0     0.00    18.60    99.00    99.00
 7  9 12 10    15.0 1     0.0     0.00    20.40    99.00    99.00
 7  9 12 11    15.0 1     0.0     0.00    22.10    99.00    99.00
 7  9 12 12    15.0 1     0.0     0.00    23.60    99.00    99.00
 7  9 12 13    15.0 1     0.0     0.00    25.30    99.00    99.00
 7  9 12 14    15.0 1   328.0     0.50    26.30    99.00    99.00
 7  9 12 15    15.0 1   343.0     1.00    26.90    99.00    99.00
 7  9 12 16    15.0 1    19.0     1.50    27.30    99.00    99.00
 7  9 12 17    15.0 1    44.0     1.50    27.10    99.00    99.00
 7  9 12 18    15.0 1    54.0     2.60    26.60    99.00    99.00
 7  9 12 19    15.0 1    13.0     1.00    25.50    99.00    99.00
 7  9 12 20    15.0 1   278.0     4.60    23.00    99.00    99.00
 7  9 12 21    15.0 1   269.0     4.60    19.80    99.00    99.00
 7  9 12 22    15.0 1   270.0     4.60    18.50    99.00    99.00
 7  9 12 23    15.0 1   289.0     4.10    17.80    99.00    99.00
 7  9 12 24    15.0 1   297.0     3.60    17.30    99.00    99.00
 7  9 13  1    15.0 1   320.0     3.10    17.00    99.00    99.00
 7  9 13  2    15.0 1   320.0     2.60    16.60    99.00    99.00
 7  9 13  3    15.0 1   316.0     2.60    16.60    99.00    99.00
 7  9 13  4    15.0 1   317.0     2.60    16.40    99.00    99.00
 7  9 13  5    15.0 1   320.0     2.10    16.10    99.00    99.00
 7  9 13  6    15.0 1   317.0     2.10    15.90    99.00    99.00
 7  9 13  7    15.0 1   345.0     2.10    15.60    99.00    99.00
 7  9 13  8    15.0 1   351.0     2.10    15.80    99.00    99.00
 7  9 13  9    15.0 1     0.0     0.00    16.60    99.00    99.00
 7  9 13 10    15.0 1     0.0     0.00    17.80    99.00    99.00
 7  9 13 11    15.0 1     0.0     0.00    19.30    99.00    99.00
 7  9 13 12    15.0 1     0.0     0.00    21.00    99.00    99.00
 7  9 13 13    15.0 1     0.0     0.00    22.60    99.00    99.00
 7  9 13 14    15.0 1     0.0     0.00    23.80    99.00    99.00
 7  9 13 15    15.0 1     0.0     0.00    24.50    99.00    99.00
 7  9 13 16    15.0 1    11.0     1.50    24.80    99.00    99.00
 7  9 13 17    15.0 1    19.0     2.60    24.50    99.00    99.00
 7  9 13 18    15.0 1    23.0     3.60    23.30    99.00    99.00
 7  9 13 19    15.0 1    29.0     3.60    21.60    99.00    99.00
 7  9 13 20    15.0 1    24.0     2.60    20.90    99.00    99.00
 7  9 13 21    15.0 1   336.0     1.00    20.10    99.00    99.00
 7  9 13 22    15.0 1   288.0     2.10    19.30    99.00    99.00
 7  9 13 23    15.0 1   304.0     3.10    18.40    99.00    99.00
 7  9 13 24    15.0 1   307.0     3.60    17.50    99.00    99.00
 7  9 14  1    15.0 1   326.0     3.60    16.40    99.00    99.00
 7  9 14  2    15.0 1   350.0     3.10    15.60    99.00    99.00
 7  9 14  3    15.0 1   350.0     2.60    15.10    99.00    99.00
 7  9 14  4    15.0 1   337.0     2.10    14.60    99.00    99.00
 7  9 14  5    15.0 1   320.0     1.50    14.30    99.00    99.00
 7  9 14  6    15.0 1   291.0     1.00    13.80    99.00    99.00
 7  9 14  7    15.0 1   330.0     1.50    14.10    99.00    99.00
 7  9 14  8    15.0 1     5.0     1.50    15.30    99.00    99.00
 7  9 14  9    15.0 1     0.0     0.00    16.10    99.00    99.00
 7  9 14 10    15.0 1     0.0     0.00    17.60    99.00    99.00
 7  9 14 11    15.0 1     0.0     0.00    19.60    99.00    99.00
 7  9 14 12    15.0 1     0.0     0.00    21.30    99.00    99.00
 7  9 14 13    15.0 1     0.0     0.00    22.60    99.00    99.00
 7  9 14 14    15.0 1     0.0     0.00    23.60    99.00    99.00
 7  9 14 15    15.0 1   341.0     0.50    24.10    99.00    99.00
 7  9 14 16    15.0 1     0.0     0.00    24.50    99.00    99.00
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 7  9 14 17    15.0 1    21.0     2.10    24.40    99.00    99.00
 7  9 14 18    15.0 1    29.0     3.10    23.80    99.00    99.00
 7  9 14 19    15.0 1    26.0     3.10    22.60    99.00    99.00
 7  9 14 20    15.0 1    45.0     1.50    21.50    99.00    99.00
 7  9 14 21    15.0 1    97.0     0.50    20.10    99.00    99.00
 7  9 14 22    15.0 1   170.0     0.50    19.00    99.00    99.00
 7  9 14 23    15.0 1   282.0     0.50    18.00    99.00    99.00
 7  9 14 24    15.0 1   310.0     1.00    17.30    99.00    99.00
 7  9 15  1    15.0 1   314.0     2.10    16.60    99.00    99.00
 7  9 15  2    15.0 1   322.0     2.60    16.10    99.00    99.00
 7  9 15  3    15.0 1   331.0     2.60    15.50    99.00    99.00
 7  9 15  4    15.0 1   326.0     3.10    14.90    99.00    99.00
 7  9 15  5    15.0 1   337.0     3.10    14.40    99.00    99.00
 7  9 15  6    15.0 1   331.0     2.60    14.00    99.00    99.00
 7  9 15  7    15.0 1   326.0     2.10    14.00    99.00    99.00
 7  9 15  8    15.0 1   341.0     2.10    16.00    99.00    99.00
 7  9 15  9    15.0 1     0.0     0.00    18.00    99.00    99.00
 7  9 15 10    15.0 1     0.0     0.00    19.80    99.00    99.00
 7  9 15 11    15.0 1     0.0     0.00    21.50    99.00    99.00
 7  9 15 12    15.0 1     0.0     0.00    23.10    99.00    99.00
 7  9 15 13    15.0 1   299.0     0.50    24.30    99.00    99.00
 7  9 15 14    15.0 1   322.0     1.00    25.10    99.00    99.00
 7  9 15 15    15.0 1   328.0     1.00    25.60    99.00    99.00
 7  9 15 16    15.0 1   360.0     2.10    25.80    99.00    99.00
 7  9 15 17    15.0 1    22.0     2.10    25.50    99.00    99.00
 7  9 15 18    15.0 1    22.0     3.10    24.60    99.00    99.00
 7  9 15 19    15.0 1    21.0     2.60    23.50    99.00    99.00
 7  9 15 20    15.0 1   309.0     0.50    22.30    99.00    99.00
 7  9 15 21    15.0 1   258.0     4.10    20.30    99.00    99.00
 7  9 15 22    15.0 1   270.0     4.10    18.30    99.00    99.00
 7  9 15 23    15.0 1   295.0     4.10    17.10    99.00    99.00
 7  9 15 24    15.0 1   310.0     3.60    16.40    99.00    99.00
 7  9 16  1    15.0 1   332.0     3.10    15.90    99.00    99.00
 7  9 16  2    15.0 1   338.0     3.10    15.50    99.00    99.00
 7  9 16  3    15.0 1   338.0     2.10    15.10    99.00    99.00
 7  9 16  4    15.0 1   326.0     1.50    14.60    99.00    99.00
 7  9 16  5    15.0 1   322.0     1.00    14.10    99.00    99.00
 7  9 16  6    15.0 1   324.0     0.50    13.80    99.00    99.00
 7  9 16  7    15.0 1     8.0     0.50    13.90    99.00    99.00
 7  9 16  8    15.0 1    20.0     1.00    14.60    99.00    99.00
 7  9 16  9    15.0 1     0.0     0.00    15.60    99.00    99.00
 7  9 16 10    15.0 1     0.0     0.00    17.10    99.00    99.00
 7  9 16 11    15.0 1     0.0     0.00    19.10    99.00    99.00
 7  9 16 12    15.0 1     0.0     0.00    20.80    99.00    99.00
 7  9 16 13    15.0 1     0.0     0.00    22.10    99.00    99.00
 7  9 16 14    15.0 1   335.0     0.50    23.00    99.00    99.00
 7  9 16 15    15.0 1   341.0     1.50    23.60    99.00    99.00
 7  9 16 16    15.0 1   352.0     2.60    23.90    99.00    99.00
 7  9 16 17    15.0 1     0.0     0.00    23.60    99.00    99.00
 7  9 16 18    15.0 1    14.0     3.60    22.80    99.00    99.00
 7  9 16 19    15.0 1     0.0     0.00    21.10    99.00    99.00
 7  9 16 20    15.0 1   350.0     3.10    20.40    99.00    99.00
 7  9 16 21    15.0 1   311.0     2.10    19.60    99.00    99.00
 7  9 16 22    15.0 1   276.0     2.10    18.80    99.00    99.00
 7  9 16 23    15.0 1   287.0     2.10    17.80    99.00    99.00
 7  9 16 24    15.0 1   314.0     3.10    16.80    99.00    99.00
 7  9 17  1    15.0 1   319.0     3.10    16.10    99.00    99.00
 7  9 17  2    15.0 1   323.0     2.60    15.50    99.00    99.00
 7  9 17  3    15.0 1   318.0     2.10    15.10    99.00    99.00
 7  9 17  4    15.0 1   332.0     1.50    14.60    99.00    99.00
 7  9 17  5    15.0 1   330.0     1.00    14.30    99.00    99.00
 7  9 17  6    15.0 1   322.0     1.00    14.10    99.00    99.00
 7  9 17  7    15.0 1   305.0     1.50    14.40    99.00    99.00
 7  9 17  8    15.0 1   320.0     1.50    14.60    99.00    99.00
 7  9 17  9    15.0 1   332.0     1.50    15.00    99.00    99.00
 7  9 17 10    15.0 1   296.0     1.00    15.60    99.00    99.00
 7  9 17 11    15.0 1   295.0     1.00    16.40    99.00    99.00
 7  9 17 12    15.0 1     0.0     0.00    18.00    99.00    99.00
 7  9 17 13    15.0 1     0.0     0.00    20.00    99.00    99.00
 7  9 17 14    15.0 1    34.0     0.50    21.50    99.00    99.00
 7  9 17 15    15.0 1    30.0     1.00    22.40    99.00    99.00
 7  9 17 16    15.0 1    24.0     2.10    23.90    99.00    99.00
 7  9 17 17    15.0 1    55.0     2.10    23.60    99.00    99.00
 7  9 17 18    15.0 1    65.0     2.60    23.00    99.00    99.00
 7  9 17 19    15.0 1    66.0     2.60    21.80    99.00    99.00
 7  9 17 20    15.0 1    96.0     1.50    20.60    99.00    99.00
 7  9 17 21    15.0 1   148.0     1.50    19.30    99.00    99.00
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7	9	17	22	15.0	1	147.0	2.10	18.40	99.00	99.00
7	9	17	23	15.0	1	157.0	2.60	17.60	99.00	99.00
7	9	17	24	15.0	1	158.0	1.50	16.90	99.00	99.00
7	9	18	1	15.0	1	169.0	1.00	16.30	99.00	99.00
7	9	18	2	15.0	1	210.0	1.00	15.80	99.00	99.00
7	9	18	3	15.0	1	249.0	2.10	15.10	99.00	99.00
7	9	18	4	15.0	1	260.0	2.60	14.40	99.00	99.00
7	9	18	5	15.0	1	267.0	2.60	14.00	99.00	99.00
7	9	18	6	15.0	1	281.0	2.10	13.80	99.00	99.00
7	9	18	7	15.0	1	279.0	1.50	14.00	99.00	99.00
7	9	18	8	15.0	1	267.0	1.00	14.60	99.00	99.00
7	9	18	9	15.0	1	315.0	1.00	15.40	99.00	99.00
7	9	18	10	15.0	1	0.0	0.00	17.10	99.00	99.00
7	9	18	11	15.0	1	0.0	0.00	19.90	99.00	99.00
7	9	18	12	15.0	1	0.0	0.00	21.60	99.00	99.00
7	9	18	13	15.0	1	0.0	0.00	23.00	99.00	99.00
7	9	18	14	15.0	1	0.0	0.00	24.00	99.00	99.00
7	9	18	15	15.0	1	360.0	0.50	24.60	99.00	99.00
7	9	18	16	15.0	1	18.0	1.50	24.90	99.00	99.00
7	9	18	17	15.0	1	28.0	2.10	24.60	99.00	99.00
7	9	18	18	15.0	1	44.0	3.10	24.00	99.00	99.00
7	9	18	19	15.0	1	36.0	2.10	22.80	99.00	99.00
7	9	18	20	15.0	1	239.0	1.00	21.60	99.00	99.00
7	9	18	21	15.0	1	246.0	4.60	19.50	99.00	99.00
7	9	18	22	15.0	1	257.0	4.60	17.50	99.00	99.00
7	9	18	23	15.0	1	258.0	4.60	16.60	99.00	99.00
7	9	18	24	15.0	1	259.0	4.10	15.80	99.00	99.00
7	9	19	1	15.0	1	272.0	3.10	15.30	99.00	99.00
7	9	19	2	15.0	1	281.0	1.50	15.10	99.00	99.00
7	9	19	3	15.0	1	270.0	1.00	15.10	99.00	99.00
7	9	19	4	15.0	1	274.0	2.10	15.00	99.00	99.00
7	9	19	5	15.0	1	275.0	3.60	14.60	99.00	99.00
7	9	19	6	15.0	1	272.0	3.60	14.30	99.00	99.00
7	9	19	7	15.0	1	267.0	3.60	14.10	99.00	99.00
7	9	19	8	15.0	1	272.0	4.10	14.40	99.00	99.00
7	9	19	9	15.0	1	268.0	2.60	15.10	99.00	99.00
7	9	19	10	15.0	1	274.0	1.50	16.10	99.00	99.00
7	9	19	11	15.0	1	238.0	1.00	16.90	99.00	99.00
7	9	19	12	15.0	1	233.0	1.00	17.40	99.00	99.00
7	9	19	13	15.0	1	257.0	1.00	18.10	99.00	99.00
7	9	19	14	15.0	1	307.0	1.00	19.80	99.00	99.00
7	9	19	15	15.0	1	305.0	3.10	20.80	99.00	99.00
7	9	19	16	15.0	1	284.0	5.70	20.40	99.00	99.00
7	9	19	17	15.0	1	269.0	4.60	19.00	99.00	99.00
7	9	19	18	15.0	1	266.0	4.60	17.10	99.00	99.00
7	9	19	19	15.0	1	275.0	4.60	15.60	99.00	99.00
7	9	19	20	15.0	1	267.0	4.10	14.90	99.00	99.00
7	9	19	21	15.0	1	280.0	3.10	14.50	99.00	99.00
7	9	19	22	15.0	1	285.0	2.60	14.30	99.00	99.00
7	9	19	23	15.0	1	281.0	2.10	14.10	99.00	99.00
7	9	19	24	15.0	1	273.0	2.10	13.60	99.00	99.00
7	9	20	1	15.0	1	270.0	2.10	13.40	99.00	99.00
7	9	20	2	15.0	1	267.0	2.60	13.10	99.00	99.00
7	9	20	3	15.0	1	280.0	2.10	12.90	99.00	99.00
7	9	20	4	15.0	1	280.0	1.50	12.80	99.00	99.00
7	9	20	5	15.0	1	259.0	1.00	12.80	99.00	99.00
7	9	20	6	15.0	1	141.0	1.00	12.60	99.00	99.00
7	9	20	7	15.0	1	139.0	2.10	12.30	99.00	99.00
7	9	20	8	15.0	1	147.0	1.50	13.00	99.00	99.00
7	9	20	9	15.0	1	145.0	1.00	14.10	99.00	99.00
7	9	20	10	15.0	1	0.0	0.00	15.60	99.00	99.00
7	9	20	11	15.0	1	0.0	0.00	17.10	99.00	99.00
7	9	20	12	15.0	1	174.0	0.50	18.10	99.00	99.00
7	9	20	13	15.0	1	190.0	0.50	19.40	99.00	99.00
7	9	20	14	15.0	1	229.0	1.00	20.30	99.00	99.00
7	9	20	15	15.0	1	240.0	1.00	21.10	99.00	99.00
7	9	20	16	15.0	1	253.0	1.50	21.50	99.00	99.00
7	9	20	17	15.0	1	302.0	2.10	21.30	99.00	99.00
7	9	20	18	15.0	1	355.0	3.60	20.30	99.00	99.00
7	9	20	19	15.0	1	24.0	3.60	18.00	99.00	99.00
7	9	20	20	15.0	1	311.0	0.50	17.00	99.00	99.00
7	9	20	21	15.0	1	247.0	4.10	15.40	99.00	99.00
7	9	20	22	15.0	1	267.0	3.10	14.10	99.00	99.00
7	9	20	23	15.0	1	297.0	2.10	13.90	99.00	99.00
7	9	20	24	15.0	1	330.0	0.50	13.40	99.00	99.00
7	9	21	1	15.0	1	76.0	1.00	12.60	99.00	99.00
7	9	21	2	15.0	1	89.0	0.50	12.00	99.00	99.00

7	9	21	3	15.0	1	0.0	0.00	11.50	99.00	99.00
7	9	21	4	15.0	1	0.0	0.00	11.10	99.00	99.00
7	9	21	5	15.0	1	279.0	0.50	10.60	99.00	99.00
7	9	21	6	15.0	1	302.0	1.00	10.40	99.00	99.00
7	9	21	7	15.0	1	317.0	1.00	10.40	99.00	99.00
7	9	21	8	15.0	1	0.0	0.00	13.60	99.00	99.00
7	9	21	9	15.0	1	208.0	0.50	17.40	99.00	99.00
7	9	21	10	15.0	1	174.0	1.50	20.90	99.00	99.00
7	9	21	11	15.0	1	167.0	3.60	23.60	99.00	99.00
7	9	21	12	15.0	1	148.0	5.70	25.40	99.00	99.00
7	9	21	13	15.0	1	159.0	5.70	26.30	99.00	99.00
7	9	21	14	15.0	1	167.0	5.10	26.90	99.00	99.00
7	9	21	15	15.0	1	173.0	5.10	26.90	99.00	99.00
7	9	21	16	15.0	1	168.0	2.10	26.50	99.00	99.00
7	9	21	17	15.0	1	148.0	1.50	26.00	99.00	99.00
7	9	21	18	15.0	1	242.0	0.50	24.40	99.00	99.00
7	9	21	19	15.0	1	302.0	6.20	20.10	99.00	99.00
7	9	21	20	15.0	1	302.0	4.10	18.10	99.00	99.00
7	9	21	21	15.0	1	285.0	3.10	17.60	99.00	99.00
7	9	21	22	15.0	1	305.0	1.50	16.90	99.00	99.00
7	9	21	23	15.0	1	23.0	1.00	16.30	99.00	99.00
7	9	21	24	15.0	1	19.0	1.50	15.60	99.00	99.00
7	9	22	1	15.0	1	360.0	1.50	14.90	99.00	99.00
7	9	22	2	15.0	1	12.0	1.50	14.10	99.00	99.00
7	9	22	3	15.0	1	74.0	1.50	13.50	99.00	99.00
7	9	22	4	15.0	1	65.0	2.10	13.10	99.00	99.00
7	9	22	5	15.0	1	31.0	1.50	12.80	99.00	99.00
7	9	22	6	15.0	1	325.0	1.50	12.10	99.00	99.00
7	9	22	7	15.0	1	316.0	2.10	12.00	99.00	99.00
7	9	22	8	15.0	1	341.0	0.50	14.80	99.00	99.00
7	9	22	9	15.0	1	334.0	0.50	17.10	99.00	99.00
7	9	22	10	15.0	1	312.0	0.50	18.90	99.00	99.00
7	9	22	11	15.0	1	301.0	0.50	20.50	99.00	99.00
7	9	22	12	15.0	1	0.0	0.00	21.60	99.00	99.00
7	9	22	13	15.0	1	0.0	0.00	22.40	99.00	99.00
7	9	22	14	15.0	1	262.0	2.10	22.60	99.00	99.00
7	9	22	15	15.0	1	262.0	4.10	22.60	99.00	99.00
7	9	22	16	15.0	1	260.0	5.10	22.40	99.00	99.00
7	9	22	17	15.0	1	246.0	4.10	21.10	99.00	99.00
7	9	22	18	15.0	1	261.0	4.60	19.80	99.00	99.00
7	9	22	19	15.0	1	261.0	5.10	18.00	99.00	99.00
7	9	22	20	15.0	1	260.0	4.60	16.30	99.00	99.00
7	9	22	21	15.0	1	258.0	3.10	15.30	99.00	99.00
7	9	22	22	15.0	1	260.0	2.60	14.60	99.00	99.00
7	9	22	23	15.0	1	297.0	1.00	14.40	99.00	99.00
7	9	22	24	15.0	1	50.0	2.60	14.10	99.00	99.00
7	9	23	1	15.0	1	52.0	3.60	13.80	99.00	99.00
7	9	23	2	15.0	1	45.0	3.60	13.40	99.00	99.00
7	9	23	3	15.0	1	18.0	2.60	12.90	99.00	99.00
7	9	23	4	15.0	1	348.0	1.50	12.40	99.00	99.00
7	9	23	5	15.0	1	324.0	1.50	11.80	99.00	99.00
7	9	23	6	15.0	1	306.0	1.00	11.10	99.00	99.00
7	9	23	7	15.0	1	243.0	0.50	10.90	99.00	99.00
7	9	23	8	15.0	1	256.0	1.50	12.90	99.00	99.00
7	9	23	9	15.0	1	0.0	0.00	14.60	99.00	99.00
7	9	23	10	15.0	1	0.0	0.00	16.30	99.00	99.00
7	9	23	11	15.0	1	0.0	0.00	17.90	99.00	99.00
7	9	23	12	15.0	1	0.0	0.00	19.10	99.00	99.00
7	9	23	13	15.0	1	0.0	0.00	20.40	99.00	99.00
7	9	23	14	15.0	1	322.0	1.00	21.10	99.00	99.00
7	9	23	15	15.0	1	336.0	2.10	21.60	99.00	99.00
7	9	23	16	15.0	1	350.0	3.10	21.60	99.00	99.00
7	9	23	17	15.0	1	5.0	2.10	21.40	99.00	99.00
7	9	23	18	15.0	1	1.0	3.10	20.80	99.00	99.00
7	9	23	19	15.0	1	4.0	3.10	19.90	99.00	99.00
7	9	23	20	15.0	1	348.0	3.60	18.50	99.00	99.00
7	9	23	21	15.0	1	346.0	3.60	17.00	99.00	99.00
7	9	23	22	15.0	1	356.0	2.60	16.10	99.00	99.00
7	9	23	23	15.0	1	14.0	1.50	15.60	99.00	99.00
7	9	23	24	15.0	1	358.0	0.50	15.00	99.00	99.00
7	9	24	1	15.0	1	0.0	0.00	14.30	99.00	99.00
7	9	24	2	15.0	1	282.0	0.50	13.60	99.00	99.00
7	9	24	3	15.0	1	291.0	1.50	13.10	99.00	99.00
7	9	24	4	15.0	1	301.0	2.10	12.80	99.00	99.00
7	9	24	5	15.0	1	298.0	2.10	12.40	99.00	99.00
7	9	24	6	15.0	1	301.0	2.60	12.10	99.00	99.00
7	9	24	7	15.0	1	287.0	2.10	11.60	99.00	99.00

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 7  9 24  8    15.0 1   300.0     1.50    13.60    99.00    99.00
 7  9 24  9    15.0 1   271.0     0.50    15.50    99.00    99.00
 7  9 24 10    15.0 1   272.0     0.50    17.10    99.00    99.00
 7  9 24 11    15.0 1     0.0     0.00    19.00    99.00    99.00
 7  9 24 12    15.0 1     0.0     0.00    20.60    99.00    99.00
 7  9 24 13    15.0 1     0.0     0.00    22.10    99.00    99.00
 7  9 24 14    15.0 1     0.0     0.00    23.10    99.00    99.00
 7  9 24 15    15.0 1   354.0     1.00    23.60    99.00    99.00
 7  9 24 16    15.0 1     6.0     2.10    23.80    99.00    99.00
 7  9 24 17    15.0 1    18.0     3.10    23.00    99.00    99.00
 7  9 24 18    15.0 1    21.0     4.10    21.50    99.00    99.00
 7  9 24 19    15.0 1    16.0     3.60    20.40    99.00    99.00
 7  9 24 20    15.0 1    16.0     2.60    19.60    99.00    99.00
 7  9 24 21    15.0 1   358.0     1.50    18.60    99.00    99.00
 7  9 24 22    15.0 1   321.0     1.00    17.60    99.00    99.00
 7  9 24 23    15.0 1   306.0     1.50    16.50    99.00    99.00
 7  9 24 24    15.0 1   316.0     2.10    15.60    99.00    99.00
 7  9 25  1    15.0 1   317.0     2.10    15.10    99.00    99.00
 7  9 25  2    15.0 1   320.0     2.10    14.60    99.00    99.00
 7  9 25  3    15.0 1   307.0     2.60    13.80    99.00    99.00
 7  9 25  4    15.0 1   314.0     2.60    13.00    99.00    99.00
 7  9 25  5    15.0 1   302.0     2.60    12.50    99.00    99.00
 7  9 25  6    15.0 1   287.0     2.10    12.10    99.00    99.00
 7  9 25  7    15.0 1   276.0     1.00    12.00    99.00    99.00
 7  9 25  8    15.0 1   319.0     1.50    13.80    99.00    99.00
 7  9 25  9    15.0 1     0.0     0.00    15.80    99.00    99.00
 7  9 25 10    15.0 1     0.0     0.00    18.40    99.00    99.00
 7  9 25 11    15.0 1     0.0     0.00    20.60    99.00    99.00
 7  9 25 12    15.0 1     0.0     0.00    22.40    99.00    99.00
 7  9 25 13    15.0 1     0.0     0.00    24.00    99.00    99.00
 7  9 25 14    15.0 1    15.0     0.50    25.10    99.00    99.00
 7  9 25 15    15.0 1    11.0     1.00    25.60    99.00    99.00
 7  9 25 16    15.0 1    12.0     2.10    25.60    99.00    99.00
 7  9 25 17    15.0 1    21.0     2.60    24.90    99.00    99.00
 7  9 25 18    15.0 1    18.0     3.60    23.60    99.00    99.00
 7  9 25 19    15.0 1    18.0     3.10    22.30    99.00    99.00
 7  9 25 20    15.0 1    30.0     1.00    20.90    99.00    99.00
 7  9 25 21    15.0 1   217.0     0.50    19.30    99.00    99.00
 7  9 25 22    15.0 1   251.0     1.50    18.00    99.00    99.00
 7  9 25 23    15.0 1   288.0     1.00    17.00    99.00    99.00
 7  9 25 24    15.0 1   348.0     0.50    16.00    99.00    99.00
 7  9 26  1    15.0 1   107.0     1.00    15.30    99.00    99.00
 7  9 26  2    15.0 1   122.0     1.00    14.90    99.00    99.00
 7  9 26  3    15.0 1   125.0     0.50    14.50    99.00    99.00
 7  9 26  4    15.0 1     0.0     0.00    14.00    99.00    99.00
 7  9 26  5    15.0 1     0.0     0.00    13.40    99.00    99.00
 7  9 26  6    15.0 1   324.0     1.00    12.80    99.00    99.00
 7  9 26  7    15.0 1   313.0     1.50    12.60    99.00    99.00
 7  9 26  8    15.0 1   314.0     1.50    15.30    99.00    99.00
 7  9 26  9    15.0 1   313.0     1.00    17.50    99.00    99.00
 7  9 26 10    15.0 1     0.0     0.00    20.10    99.00    99.00
 7  9 26 11    15.0 1     0.0     0.00    22.60    99.00    99.00
 7  9 26 12    15.0 1     0.0     0.00    24.30    99.00    99.00
 7  9 26 13    15.0 1     0.0     0.00    25.60    99.00    99.00
 7  9 26 14    15.0 1     0.0     0.00    26.80    99.00    99.00
 7  9 26 15    15.0 1    15.0     0.50    27.30    99.00    99.00
 7  9 26 16    15.0 1    24.0     1.50    27.30    99.00    99.00
 7  9 26 17    15.0 1    30.0     2.60    26.50    99.00    99.00
 7  9 26 18    15.0 1    37.0     4.10    24.60    99.00    99.00
 7  9 26 19    15.0 1    43.0     4.10    22.90    99.00    99.00
 7  9 26 20    15.0 1    47.0     2.10    22.00    99.00    99.00
 7  9 26 21    15.0 1   249.0     1.00    20.60    99.00    99.00
 7  9 26 22    15.0 1   272.0     3.10    19.10    99.00    99.00
 7  9 26 23    15.0 1   284.0     3.10    18.10    99.00    99.00
 7  9 26 24    15.0 1   298.0     1.50    17.40    99.00    99.00
 7  9 27  1    15.0 1    55.0     0.50    16.60    99.00    99.00
 7  9 27  2    15.0 1    92.0     0.50    15.80    99.00    99.00
 7  9 27  3    15.0 1    87.0     0.50    15.10    99.00    99.00
 7  9 27  4    15.0 1     0.0     0.00    14.60    99.00    99.00
 7  9 27  5    15.0 1    90.0     0.50    14.10    99.00    99.00
 7  9 27  6    15.0 1     0.0     0.00    13.80    99.00    99.00
 7  9 27  7    15.0 1   312.0     0.50    13.60    99.00    99.00
 7  9 27  8    15.0 1   315.0     1.00    16.00    99.00    99.00
 7  9 27  9    15.0 1   297.0     1.00    18.40    99.00    99.00
 7  9 27 10    15.0 1     0.0     0.00    20.80    99.00    99.00
 7  9 27 11    15.0 1     0.0     0.00    23.30    99.00    99.00
 7  9 27 12    15.0 1     0.0     0.00    24.80    99.00    99.00
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 7  9 27 13    15.0 1     0.0     0.00    26.10    99.00    99.00
 7  9 27 14    15.0 1     0.0     0.00    27.10    99.00    99.00
 7  9 27 15    15.0 1   338.0     0.50    27.60    99.00    99.00
 7  9 27 16    15.0 1   353.0     1.00    28.30    99.00    99.00
 7  9 27 17    15.0 1   352.0     1.50    27.80    99.00    99.00
 7  9 27 18    15.0 1   321.0     1.50    26.60    99.00    99.00
 7  9 27 19    15.0 1   274.0     4.10    24.80    99.00    99.00
 7  9 27 20    15.0 1   283.0     4.10    21.50    99.00    99.00
 7  9 27 21    15.0 1   288.0     3.60    20.10    99.00    99.00
 7  9 27 22    15.0 1   291.0     3.10    19.50    99.00    99.00
 7  9 27 23    15.0 1   291.0     3.10    18.90    99.00    99.00
 7  9 27 24    15.0 1   298.0     2.10    18.40    99.00    99.00
 7  9 28  1    15.0 1     0.0     0.00    18.00    99.00    99.00
 7  9 28  2    15.0 1   338.0     2.10    17.40    99.00    99.00
 7  9 28  3    15.0 1   292.0     3.10    16.40    99.00    99.00
 7  9 28  4    15.0 1   271.0     3.10    14.80    99.00    99.00
 7  9 28  5    15.0 1   263.0     3.10    13.90    99.00    99.00
 7  9 28  6    15.0 1   257.0     2.10    13.50    99.00    99.00
 7  9 28  7    15.0 1   265.0     2.10    13.40    99.00    99.00
 7  9 28  8    15.0 1   272.0     3.10    14.90    99.00    99.00
 7  9 28  9    15.0 1   276.0     1.00    16.60    99.00    99.00
 7  9 28 10    15.0 1     0.0     0.00    18.10    99.00    99.00
 7  9 28 11    15.0 1   258.0     0.50    19.60    99.00    99.00
 7  9 28 12    15.0 1   276.0     0.50    20.80    99.00    99.00
 7  9 28 13    15.0 1   297.0     0.50    21.90    99.00    99.00
 7  9 28 14    15.0 1   314.0     1.00    22.60    99.00    99.00
 7  9 28 15    15.0 1   299.0     2.10    23.10    99.00    99.00
 7  9 28 16    15.0 1   286.0     4.10    23.00    99.00    99.00
 7  9 28 17    15.0 1   278.0     4.10    21.90    99.00    99.00
 7  9 28 18    15.0 1   269.0     5.10    19.10    99.00    99.00
 7  9 28 19    15.0 1   266.0     5.70    17.10    99.00    99.00
 7  9 28 20    15.0 1   269.0     5.10    15.80    99.00    99.00
 7  9 28 21    15.0 1   271.0     5.70    15.10    99.00    99.00
 7  9 28 22    15.0 1   278.0     5.70    15.10    99.00    99.00
 7  9 28 23    15.0 1   286.0     5.70    15.40    99.00    99.00
 7  9 28 24    15.0 1   293.0     4.60    15.10    99.00    99.00
 7  9 29  1    15.0 1   293.0     4.10    14.90    99.00    99.00
 7  9 29  2    15.0 1   288.0     3.60    14.10    99.00    99.00
 7  9 29  3    15.0 1   287.0     3.60    13.30    99.00    99.00
 7  9 29  4    15.0 1   279.0     3.10    12.60    99.00    99.00
 7  9 29  5    15.0 1   277.0     2.60    12.30    99.00    99.00
 7  9 29  6    15.0 1   276.0     2.10    12.40    99.00    99.00
 7  9 29  7    15.0 1   289.0     2.10    13.00    99.00    99.00
 7  9 29  8    15.0 1   306.0     2.60    13.90    99.00    99.00
 7  9 29  9    15.0 1   330.0     3.10    15.10    99.00    99.00
 7  9 29 10    15.0 1   354.0     2.60    16.80    99.00    99.00
 7  9 29 11    15.0 1     0.0     0.00    18.00    99.00    99.00
 7  9 29 12    15.0 1     0.0     0.00    18.90    99.00    99.00
 7  9 29 13    15.0 1     0.0     0.00    19.90    99.00    99.00
 7  9 29 14    15.0 1    89.0     0.50    20.60    99.00    99.00
 7  9 29 15    15.0 1    26.0     0.50    21.00    99.00    99.00
 7  9 29 16    15.0 1     6.0     1.00    21.10    99.00    99.00
 7  9 29 17    15.0 1   358.0     0.50    21.00    99.00    99.00
 7  9 29 18    15.0 1   332.0     1.00    20.30    99.00    99.00
 7  9 29 19    15.0 1   316.0     0.50    19.10    99.00    99.00
 7  9 29 20    15.0 1   169.0     0.50    17.80    99.00    99.00
 7  9 29 21    15.0 1   165.0     1.00    16.50    99.00    99.00
 7  9 29 22    15.0 1   172.0     0.50    15.50    99.00    99.00
 7  9 29 23    15.0 1     0.0     0.00    14.80    99.00    99.00
 7  9 29 24    15.0 1   342.0     0.50    14.10    99.00    99.00
 7  9 30  1    15.0 1   332.0     1.00    13.80    99.00    99.00
 7  9 30  2    15.0 1   325.0     2.10    13.10    99.00    99.00
 7  9 30  3    15.0 1   323.0     2.60    12.50    99.00    99.00
 7  9 30  4    15.0 1   325.0     2.60    11.60    99.00    99.00
 7  9 30  5    15.0 1   299.0     2.60    11.10    99.00    99.00
 7  9 30  6    15.0 1   303.0     2.60    10.60    99.00    99.00
 7  9 30  7    15.0 1   306.0     2.10    10.50    99.00    99.00
 7  9 30  8    15.0 1   326.0     2.60    12.40    99.00    99.00
 7  9 30  9    15.0 1   325.0     2.10    14.00    99.00    99.00
 7  9 30 10    15.0 1   316.0     2.10    16.50    99.00    99.00
 7  9 30 11    15.0 1   321.0     1.50    19.10    99.00    99.00
 7  9 30 12    15.0 1   316.0     1.00    21.10    99.00    99.00
 7  9 30 13    15.0 1   353.0     1.00    22.60    99.00    99.00
 7  9 30 14    15.0 1   346.0     1.50    23.90    99.00    99.00
 7  9 30 15    15.0 1   352.0     2.10    24.60    99.00    99.00
 7  9 30 16    15.0 1   360.0     3.10    24.50    99.00    99.00
 7  9 30 17    15.0 1     0.0     0.00    23.30    99.00    99.00
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 7   9 30 18     15.0 1     14.0      3.60     21.80     99.00     99.00
 7   9 30 19     15.0 1     18.0      2.60     20.60     99.00     99.00
 7   9 30 20     15.0 1    297.0      1.00     19.30     99.00     99.00
 7   9 30 21     15.0 1    283.0      3.10     18.50     99.00     99.00
 7   9 30 22     15.0 1    300.0      4.10     17.40     99.00     99.00
 7   9 30 23     15.0 1    299.0      3.60     16.10     99.00     99.00
 7   9 30 24     15.0 1    313.0      3.10     15.40     99.00     99.00
 7  10  1  1     15.0 1    321.0      3.10     14.90     99.00     99.00
 7  10  1  2     15.0 1    345.0      2.10     14.30     99.00     99.00
 7  10  1  3     15.0 1    326.0      1.50     13.60     99.00     99.00
 7  10  1  4     15.0 1    328.0      0.50     13.00     99.00     99.00
 7  10  1  5     15.0 1      0.0      0.00     12.40     99.00     99.00
 7  10  1  6     15.0 1     36.0      0.50     11.90     99.00     99.00
 7  10  1  7     15.0 1      0.0      0.00     11.50     99.00     99.00
 7  10  1  8     15.0 1    352.0      1.00     13.10     99.00     99.00
 7  10  1  9     15.0 1    344.0      0.50     15.40     99.00     99.00
 7  10  1 10     15.0 1    333.0      1.00     17.40     99.00     99.00
 7  10  1 11     15.0 1    325.0      1.00     19.00     99.00     99.00
 7  10  1 12     15.0 1    330.0      1.50     20.40     99.00     99.00
 7  10  1 13     15.0 1    338.0      1.50     21.50     99.00     99.00
 7  10  1 14     15.0 1    338.0      2.10     22.30     99.00     99.00
 7  10  1 15     15.0 1    342.0      2.60     22.60     99.00     99.00
 7  10  1 16     15.0 1    337.0      3.10     22.60     99.00     99.00
 7  10  1 17     15.0 1    347.0      2.60     22.10     99.00     99.00
 7  10  1 18     15.0 1    355.0      3.60     21.30     99.00     99.00
 7  10  1 19     15.0 1    336.0      3.60     19.80     99.00     99.00
 7  10  1 20     15.0 1    342.0      3.60     18.40     99.00     99.00
 7  10  1 21     15.0 1    353.0      3.60     17.30     99.00     99.00
 7  10  1 22     15.0 1    358.0      2.60     16.50     99.00     99.00
 7  10  1 23     15.0 1    343.0      1.50     15.80     99.00     99.00
 7  10  1 24     15.0 1    295.0      1.50     15.10     99.00     99.00
 7  10  2  1     15.0 1    287.0      1.50     14.50     99.00     99.00
 7  10  2  2     15.0 1    287.0      1.50     13.90     99.00     99.00
 7  10  2  3     15.0 1    296.0      1.50     13.40     99.00     99.00
 7  10  2  4     15.0 1    325.0      1.50     12.60     99.00     99.00
 7  10  2  5     15.0 1    352.0      1.00     11.80     99.00     99.00
 7  10  2  6     15.0 1      0.0      0.00     11.30     99.00     99.00
 7  10  2  7     15.0 1    337.0      0.50     11.10     99.00     99.00
 7  10  2  8     15.0 1    319.0      0.50     12.10     99.00     99.00
 7  10  2  9     15.0 1      0.0      0.00     13.50     99.00     99.00
 7  10  2 10     15.0 1      0.0      0.00     16.60     99.00     99.00
 7  10  2 11     15.0 1      0.0      0.00     19.60     99.00     99.00
 7  10  2 12     15.0 1      0.0      0.00     21.50     99.00     99.00
 7  10  2 13     15.0 1      0.0      0.00     23.10     99.00     99.00
 7  10  2 14     15.0 1      0.0      0.00     24.40     99.00     99.00
 7  10  2 15     15.0 1     15.0      1.00     25.10     99.00     99.00
 7  10  2 16     15.0 1      0.0      0.00     25.90     99.00     99.00
 7  10  2 17     15.0 1      6.0      2.60     25.10     99.00     99.00
 7  10  2 18     15.0 1     12.0      3.10     24.00     99.00     99.00
 7  10  2 19     15.0 1     25.0      2.10     22.60     99.00     99.00
 7  10  2 20     15.0 1      0.0      0.00     21.10     99.00     99.00
 7  10  2 21     15.0 1    226.0      0.50     19.60     99.00     99.00
 7  10  2 22     15.0 1    284.0      1.00     18.50     99.00     99.00
 7  10  2 23     15.0 1    322.0      1.00     17.60     99.00     99.00
 7  10  2 24     15.0 1    338.0      1.50     16.80     99.00     99.00
 7  10  3  1     15.0 1    336.0      1.50     16.10     99.00     99.00
 7  10  3  2     15.0 1    329.0      1.50     15.80     99.00     99.00
 7  10  3  3     15.0 1    322.0      1.50     15.10     99.00     99.00
 7  10  3  4     15.0 1    312.0      1.50     14.60     99.00     99.00
 7  10  3  5     15.0 1    299.0      1.00     14.00     99.00     99.00
 7  10  3  6     15.0 1    306.0      1.00     13.50     99.00     99.00
 7  10  3  7     15.0 1    309.0      1.00     13.10     99.00     99.00
 7  10  3  8     15.0 1    328.0      1.00     14.60     99.00     99.00
 7  10  3  9     15.0 1      0.0      0.00     16.60     99.00     99.00
 7  10  3 10     15.0 1      0.0      0.00     19.10     99.00     99.00
 7  10  3 11     15.0 1      0.0      0.00     21.40     99.00     99.00
 7  10  3 12     15.0 1      0.0      0.00     22.90     99.00     99.00
 7  10  3 13     15.0 1      0.0      0.00     24.30     99.00     99.00
 7  10  3 14     15.0 1    316.0      0.50     25.40     99.00     99.00
 7  10  3 15     15.0 1    354.0      1.00     26.00     99.00     99.00
 7  10  3 16     15.0 1      0.0      0.00     26.10     99.00     99.00
 7  10  3 17     15.0 1     13.0      2.60     25.40     99.00     99.00
 7  10  3 18     15.0 1      7.0      3.60     23.80     99.00     99.00
 7  10  3 19     15.0 1    345.0      4.10     21.50     99.00     99.00
 7  10  3 20     15.0 1    332.0      4.10     19.50     99.00     99.00
 7  10  3 21     15.0 1    329.0      3.60     18.60     99.00     99.00
 7  10  3 22     15.0 1    332.0      2.60     18.10     99.00     99.00
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 7 10   3 23     15.0 1   334.0      2.60     17.60     99.00     99.00
 7 10   3 24     15.0 1   327.0      2.60     17.40     99.00     99.00
 7 10   4  1     15.0 1   338.0      2.10     17.10     99.00     99.00
 7 10   4  2     15.0 1   353.0      2.10     16.60     99.00     99.00
 7 10   4  3     15.0 1   350.0      2.10     16.30     99.00     99.00
 7 10   4  4     15.0 1   346.0      1.50     15.60     99.00     99.00
 7 10   4  5     15.0 1   338.0      1.50     15.10     99.00     99.00
 7 10   4  6     15.0 1   327.0      1.50     14.80     99.00     99.00
 7 10   4  7     15.0 1   334.0      1.50     14.60     99.00     99.00
 7 10   4  8     15.0 1   329.0      1.50     14.40     99.00     99.00
 7 10   4  9     15.0 1   344.0      2.10     14.40     99.00     99.00
 7 10   4 10     15.0 1   338.0      2.10     14.40     99.00     99.00
 7 10   4 11     15.0 1   338.0      2.10     14.90     99.00     99.00
 7 10   4 12     15.0 1   336.0      2.10     15.60     99.00     99.00
 7 10   4 13     15.0 1   354.0      2.10     16.60     99.00     99.00
 7 10   4 14     15.0 1   349.0      2.10     17.50     99.00     99.00
 7 10   4 15     15.0 1   355.0      3.10     17.90     99.00     99.00
 7 10   4 16     15.0 1     2.0      3.10     18.30     99.00     99.00
 7 10   4 17     15.0 1    12.0      2.10     18.30     99.00     99.00
 7 10   4 18     15.0 1    22.0      2.10     17.80     99.00     99.00
 7 10   4 19     15.0 1   328.0      3.10     16.40     99.00     99.00
 7 10   4 20     15.0 1   331.0      2.10     15.60     99.00     99.00
 7 10   4 21     15.0 1   319.0      1.50     15.10     99.00     99.00
 7 10   4 22     15.0 1   312.0      2.60     14.60     99.00     99.00
 7 10   4 23     15.0 1   297.0      3.10     14.10     99.00     99.00
 7 10   4 24     15.0 1   287.0      3.10     13.80     99.00     99.00
 7 10   5  1     15.0 1   278.0      3.10     13.50     99.00     99.00
 7 10   5  2     15.0 1   285.0      3.60     12.80     99.00     99.00
 7 10   5  3     15.0 1   284.0      3.60     12.30     99.00     99.00
 7 10   5  4     15.0 1   278.0      2.60     12.10     99.00     99.00
 7 10   5  5     15.0 1   271.0      2.60     12.10     99.00     99.00
 7 10   5  6     15.0 1   270.0      2.60     11.80     99.00     99.00
 7 10   5  7     15.0 1   272.0      2.60     11.30     99.00     99.00
 7 10   5  8     15.0 1   294.0      4.10     12.40     99.00     99.00
 7 10   5  9     15.0 1   304.0      3.10     13.60     99.00     99.00
 7 10   5 10     15.0 1   303.0      3.10     14.50     99.00     99.00
 7 10   5 11     15.0 1   308.0      3.60     15.10     99.00     99.00
 7 10   5 12     15.0 1   331.0      4.10     15.50     99.00     99.00
 7 10   5 13     15.0 1   332.0      4.10     15.80     99.00     99.00
 7 10   5 14     15.0 1   340.0      4.10     16.10     99.00     99.00
 7 10   5 15     15.0 1   351.0      4.60     16.10     99.00     99.00
 7 10   5 16     15.0 1   341.0      4.60     16.10     99.00     99.00
 7 10   5 17     15.0 1   354.0      3.10     15.60     99.00     99.00
 7 10   5 18     15.0 1   353.0      3.60     14.40     99.00     99.00
 7 10   5 19     15.0 1   348.0      3.10     13.60     99.00     99.00
 7 10   5 20     15.0 1   335.0      2.60     13.10     99.00     99.00
 7 10   5 21     15.0 1   320.0      1.50     12.50     99.00     99.00
 7 10   5 22     15.0 1   345.0      0.50     11.50     99.00     99.00
 7 10   5 23     15.0 1     0.0      0.00     10.60     99.00     99.00
 7 10   5 24     15.0 1   184.0      0.50      9.90     99.00     99.00
 7 10   6  1     15.0 1   200.0      0.50      9.10     99.00     99.00
 7 10   6  2     15.0 1   241.0      0.50      8.50     99.00     99.00
 7 10   6  3     15.0 1   315.0      0.50      7.90     99.00     99.00
 7 10   6  4     15.0 1   321.0      1.00      7.40     99.00     99.00
 7 10   6  5     15.0 1   310.0      1.00      6.90     99.00     99.00
 7 10   6  6     15.0 1   282.0      1.50      6.60     99.00     99.00
 7 10   6  7     15.0 1   281.0      1.50      6.40     99.00     99.00
 7 10   6  8     15.0 1   325.0      1.50      8.60     99.00     99.00
 7 10   6  9     15.0 1   351.0      0.50     10.60     99.00     99.00
 7 10   6 10     15.0 1     0.0      0.00     12.40     99.00     99.00
 7 10   6 11     15.0 1     0.0      0.00     14.00     99.00     99.00
 7 10   6 12     15.0 1     0.0      0.00     15.60     99.00     99.00
 7 10   6 13     15.0 1     0.0      0.00     16.60     99.00     99.00
 7 10   6 14     15.0 1     0.0      0.00     17.60     99.00     99.00
 7 10   6 15     15.0 1   342.0      0.50     18.10     99.00     99.00
 7 10   6 16     15.0 1     3.0      1.00     18.10     99.00     99.00
 7 10   6 17     15.0 1     8.0      1.50     18.00     99.00     99.00
 7 10   6 18     15.0 1    19.0      1.50     17.10     99.00     99.00
 7 10   6 19     15.0 1    55.0      0.50     15.80     99.00     99.00
 7 10   6 20     15.0 1    77.0      0.50     14.40     99.00     99.00
 7 10   6 21     15.0 1   153.0      0.50     13.10     99.00     99.00
 7 10   6 22     15.0 1   169.0      1.00     12.00     99.00     99.00
 7 10   6 23     15.0 1   156.0      1.50     11.30     99.00     99.00
 7 10   6 24     15.0 1   162.0      1.50     10.80     99.00     99.00
 7 10   7  1     15.0 1   159.0      1.50     10.30     99.00     99.00
 7 10   7  2     15.0 1   164.0      0.50      9.80     99.00     99.00
 7 10   7  3     15.0 1     0.0      0.00      9.30     99.00     99.00
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 7 10  7  4    15.0 1   327.0     0.50     8.60    99.00    99.00
 7 10  7  5    15.0 1   321.0     0.50     8.10    99.00    99.00
 7 10  7  6    15.0 1   308.0     1.50     7.90    99.00    99.00
 7 10  7  7    15.0 1   316.0     2.10     7.90    99.00    99.00
 7 10  7  8    15.0 1   307.0     2.10    10.10    99.00    99.00
 7 10  7  9    15.0 1   310.0     1.50    12.40    99.00    99.00
 7 10  7 10    15.0 1   311.0     1.00    14.80    99.00    99.00
 7 10  7 11    15.0 1   321.0     1.00    16.90    99.00    99.00
 7 10  7 12    15.0 1   314.0     1.00    18.50    99.00    99.00
 7 10  7 13    15.0 1   329.0     1.00    20.10    99.00    99.00
 7 10  7 14    15.0 1     6.0     1.00    21.10    99.00    99.00
 7 10  7 15    15.0 1    27.0     1.50    21.60    99.00    99.00
 7 10  7 16    15.0 1    28.0     2.60    22.00    99.00    99.00
 7 10  7 17    15.0 1    32.0     3.60    20.80    99.00    99.00
 7 10  7 18    15.0 1    27.0     3.60    19.30    99.00    99.00
 7 10  7 19    15.0 1    27.0     2.10    18.50    99.00    99.00
 7 10  7 20    15.0 1     0.0     0.00    17.40    99.00    99.00
 7 10  7 21    15.0 1   226.0     1.50    16.00    99.00    99.00
 7 10  7 22    15.0 1   265.0     2.10    15.30    99.00    99.00
 7 10  7 23    15.0 1   305.0     1.00    14.60    99.00    99.00
 7 10  7 24    15.0 1    51.0     1.00    13.60    99.00    99.00
 7 10  8  1    15.0 1    95.0     0.50    12.80    99.00    99.00
 7 10  8  2    15.0 1     0.0     0.00    12.10    99.00    99.00
 7 10  8  3    15.0 1   320.0     0.50    11.60    99.00    99.00
 7 10  8  4    15.0 1   341.0     1.00    11.30    99.00    99.00
 7 10  8  5    15.0 1   336.0     1.50    10.80    99.00    99.00
 7 10  8  6    15.0 1   345.0     1.00    10.30    99.00    99.00
 7 10  8  7    15.0 1   311.0     1.00    10.00    99.00    99.00
 7 10  8  8    15.0 1   319.0     1.50    11.80    99.00    99.00
 7 10  8  9    15.0 1   307.0     1.50    14.40    99.00    99.00
 7 10  8 10    15.0 1   320.0     1.00    16.90    99.00    99.00
 7 10  8 11    15.0 1   331.0     0.50    19.40    99.00    99.00
 7 10  8 12    15.0 1   342.0     0.50    21.60    99.00    99.00
 7 10  8 13    15.0 1     4.0     0.50    23.00    99.00    99.00
 7 10  8 14    15.0 1     9.0     1.00    23.90    99.00    99.00
 7 10  8 15    15.0 1    23.0     1.50    24.40    99.00    99.00
 7 10  8 16    15.0 1    35.0     2.60    24.10    99.00    99.00
 7 10  8 17    15.0 1    28.0     3.60    22.60    99.00    99.00
 7 10  8 18    15.0 1    34.0     4.10    21.00    99.00    99.00
 7 10  8 19    15.0 1    20.0     3.60    20.10    99.00    99.00
 7 10  8 20    15.0 1   347.0     1.50    19.10    99.00    99.00
 7 10  8 21    15.0 1   295.0     2.10    18.00    99.00    99.00
 7 10  8 22    15.0 1   294.0     2.60    16.90    99.00    99.00
 7 10  8 23    15.0 1   287.0     2.10    16.00    99.00    99.00
 7 10  8 24    15.0 1   301.0     1.50    15.10    99.00    99.00
 7 10  9  1    15.0 1   296.0     1.00    14.30    99.00    99.00
 7 10  9  2    15.0 1   313.0     1.00    13.60    99.00    99.00
 7 10  9  3    15.0 1   304.0     0.50    13.10    99.00    99.00
 7 10  9  4    15.0 1   282.0     1.00    12.50    99.00    99.00
 7 10  9  5    15.0 1   277.0     1.50    12.10    99.00    99.00
 7 10  9  6    15.0 1   286.0     1.50    12.00    99.00    99.00
 7 10  9  7    15.0 1   353.0     1.50    12.00    99.00    99.00
 7 10  9  8    15.0 1    18.0     1.50    13.10    99.00    99.00
 7 10  9  9    15.0 1   353.0     1.00    17.10    99.00    99.00
 7 10  9 10    15.0 1     0.0     0.00    19.60    99.00    99.00
 7 10  9 11    15.0 1   351.0     0.50    21.80    99.00    99.00
 7 10  9 12    15.0 1     0.0     0.00    23.30    99.00    99.00
 7 10  9 13    15.0 1     0.0     0.00    24.40    99.00    99.00
 7 10  9 14    15.0 1   352.0     0.50    25.10    99.00    99.00
 7 10  9 15    15.0 1   315.0     1.00    25.50    99.00    99.00
 7 10  9 16    15.0 1   305.0     2.10    25.10    99.00    99.00
 7 10  9 17    15.0 1   294.0     3.60    23.90    99.00    99.00
 7 10  9 18    15.0 1   287.0     4.60    20.50    99.00    99.00
 7 10  9 19    15.0 1   281.0     4.10    17.80    99.00    99.00
 7 10  9 20    15.0 1   293.0     3.60    16.60    99.00    99.00
 7 10  9 21    15.0 1   311.0     3.10    16.10    99.00    99.00
 7 10  9 22    15.0 1   336.0     3.10    15.90    99.00    99.00
 7 10  9 23    15.0 1     6.0     2.60    15.60    99.00    99.00
 7 10  9 24    15.0 1    34.0     3.10    15.10    99.00    99.00
 7 10 10  1    15.0 1    29.0     2.60    14.60    99.00    99.00
 7 10 10  2    15.0 1    19.0     2.60    14.50    99.00    99.00
 7 10 10  3    15.0 1     0.0     0.00    14.10    99.00    99.00
 7 10 10  4    15.0 1   281.0     0.50    13.60    99.00    99.00
 7 10 10  5    15.0 1   239.0     0.50    13.10    99.00    99.00
 7 10 10  6    15.0 1   222.0     0.50    12.80    99.00    99.00
 7 10 10  7    15.0 1     0.0     0.00    12.50    99.00    99.00
 7 10 10  8    15.0 1   112.0     0.50    13.10    99.00    99.00
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 7 10 10  9    15.0 1   136.0     0.50    13.90    99.00    99.00
 7 10 10 10    15.0 1   182.0     0.50    14.90    99.00    99.00
 7 10 10 11    15.0 1     0.0     0.00    16.80    99.00    99.00
 7 10 10 12    15.0 1     0.0     0.00    18.00    99.00    99.00
 7 10 10 13    15.0 1     0.0     0.00    19.10    99.00    99.00
 7 10 10 14    15.0 1   291.0     0.50    20.10    99.00    99.00
 7 10 10 15    15.0 1   308.0     1.50    20.60    99.00    99.00
 7 10 10 16    15.0 1   324.0     2.10    20.80    99.00    99.00
 7 10 10 17    15.0 1   328.0     2.60    20.60    99.00    99.00
 7 10 10 18    15.0 1   332.0     3.10    19.80    99.00    99.00
 7 10 10 19    15.0 1   345.0     3.10    18.80    99.00    99.00
 7 10 10 20    15.0 1   350.0     3.10    17.60    99.00    99.00
 7 10 10 21    15.0 1     0.0     0.00    16.30    99.00    99.00
 7 10 10 22    15.0 1    35.0     2.10    15.40    99.00    99.00
 7 10 10 23    15.0 1    48.0     0.50    14.60    99.00    99.00
 7 10 10 24    15.0 1   305.0     1.00    13.80    99.00    99.00
 7 10 11  1    15.0 1   324.0     1.50    13.10    99.00    99.00
 7 10 11  2    15.0 1   325.0     1.50    12.50    99.00    99.00
 7 10 11  3    15.0 1   319.0     2.10    12.00    99.00    99.00
 7 10 11  4    15.0 1   317.0     2.60    11.60    99.00    99.00
 7 10 11  5    15.0 1   324.0     2.60    11.10    99.00    99.00
 7 10 11  6    15.0 1   322.0     2.60    10.10    99.00    99.00
 7 10 11  7    15.0 1   327.0     2.10     9.60    99.00    99.00
 7 10 11  8    15.0 1   340.0     1.50    11.00    99.00    99.00
 7 10 11  9    15.0 1     0.0     0.00    12.90    99.00    99.00
 7 10 11 10    15.0 1     0.0     0.00    14.60    99.00    99.00
 7 10 11 11    15.0 1     0.0     0.00    16.40    99.00    99.00
 7 10 11 12    15.0 1     0.0     0.00    17.80    99.00    99.00
 7 10 11 13    15.0 1     0.0     0.00    19.00    99.00    99.00
 7 10 11 14    15.0 1     0.0     0.00    20.00    99.00    99.00
 7 10 11 15    15.0 1    10.0     1.00    20.60    99.00    99.00
 7 10 11 16    15.0 1    19.0     1.50    20.60    99.00    99.00
 7 10 11 17    15.0 1    40.0     2.60    20.10    99.00    99.00
 7 10 11 18    15.0 1    55.0     3.10    19.10    99.00    99.00
 7 10 11 19    15.0 1    64.0     3.10    17.90    99.00    99.00
 7 10 11 20    15.0 1    96.0     1.00    16.60    99.00    99.00
 7 10 11 21    15.0 1   259.0     2.60    15.60    99.00    99.00
 7 10 11 22    15.0 1   269.0     4.10    13.90    99.00    99.00
 7 10 11 23    15.0 1   278.0     3.60    12.80    99.00    99.00
 7 10 11 24    15.0 1   266.0     3.10    12.40    99.00    99.00
 7 10 12  1    15.0 1   280.0     1.50    12.30    99.00    99.00
 7 10 12  2    15.0 1     0.0     0.00    12.30    99.00    99.00
 7 10 12  3    15.0 1    76.0     1.00    12.10    99.00    99.00
 7 10 12  4    15.0 1    86.0     0.50    11.80    99.00    99.00
 7 10 12  5    15.0 1    18.0     0.50    11.30    99.00    99.00
 7 10 12  6    15.0 1    45.0     0.50    10.80    99.00    99.00
 7 10 12  7    15.0 1     0.0     0.00    10.10    99.00    99.00
 7 10 12  8    15.0 1   124.0     0.50    11.30    99.00    99.00
 7 10 12  9    15.0 1   133.0     0.50    13.50    99.00    99.00
 7 10 12 10    15.0 1   153.0     1.00    15.30    99.00    99.00
 7 10 12 11    15.0 1   148.0     1.00    16.90    99.00    99.00
 7 10 12 12    15.0 1   134.0     0.50    18.10    99.00    99.00
 7 10 12 13    15.0 1     0.0     0.00    19.10    99.00    99.00
 7 10 12 14    15.0 1     0.0     0.00    20.00    99.00    99.00
 7 10 12 15    15.0 1     0.0     0.00    20.40    99.00    99.00
 7 10 12 16    15.0 1   273.0     2.10    21.80    99.00    99.00
 7 10 12 17    15.0 1   293.0     4.10    20.60    99.00    99.00
 7 10 12 18    15.0 1   296.0     4.60    18.10    99.00    99.00
 7 10 12 19    15.0 1   319.0     3.60    17.10    99.00    99.00
 7 10 12 20    15.0 1   337.0     2.60    16.60    99.00    99.00
 7 10 12 21    15.0 1   351.0     2.10    16.60    99.00    99.00
 7 10 12 22    15.0 1   348.0     1.50    16.60    99.00    99.00
 7 10 12 23    15.0 1   298.0     1.00    16.60    99.00    99.00
 7 10 12 24    15.0 1   293.0     1.00    16.50    99.00    99.00
 7 10 13  1    15.0 1   313.0     1.50    16.30    99.00    99.00
 7 10 13  2    15.0 1   312.0     2.10    16.00    99.00    99.00
 7 10 13  3    15.0 1   302.0     2.60    15.60    99.00    99.00
 7 10 13  4    15.0 1   310.0     3.60    14.80    99.00    99.00
 7 10 13  5    15.0 1   308.0     3.10    14.00    99.00    99.00
 7 10 13  6    15.0 1   297.0     3.10    13.60    99.00    99.00
 7 10 13  7    15.0 1   301.0     2.60    13.60    99.00    99.00
 7 10 13  8    15.0 1   304.0     2.60    14.10    99.00    99.00
 7 10 13  9    15.0 1   306.0     2.60    14.60    99.00    99.00
 7 10 13 10    15.0 1   328.0     1.50    16.10    99.00    99.00
 7 10 13 11    15.0 1   286.0     1.00    17.50    99.00    99.00
 7 10 13 12    15.0 1     0.0     0.00    18.60    99.00    99.00
 7 10 13 13    15.0 1     0.0     0.00    19.60    99.00    99.00
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 7 10 13 14    15.0 1     0.0     0.00    20.50    99.00    99.00
 7 10 13 15    15.0 1     0.0     0.00    21.00    99.00    99.00
 7 10 13 16    15.0 1    26.0     1.00    21.10    99.00    99.00
 7 10 13 17    15.0 1    44.0     1.50    21.00    99.00    99.00
 7 10 13 18    15.0 1    36.0     1.00    20.30    99.00    99.00
 7 10 13 19    15.0 1    56.0     0.50    19.10    99.00    99.00
 7 10 13 20    15.0 1   125.0     0.50    18.00    99.00    99.00
 7 10 13 21    15.0 1   151.0     1.50    16.90    99.00    99.00
 7 10 13 22    15.0 1   144.0     1.50    16.10    99.00    99.00
 7 10 13 23    15.0 1   120.0     1.50    15.40    99.00    99.00
 7 10 13 24    15.0 1   104.0     1.00    14.60    99.00    99.00
 7 10 14  1    15.0 1    95.0     0.50    14.00    99.00    99.00
 7 10 14  2    15.0 1     0.0     0.00    13.40    99.00    99.00
 7 10 14  3    15.0 1     0.0     0.00    12.90    99.00    99.00
 7 10 14  4    15.0 1   264.0     0.50    12.50    99.00    99.00
 7 10 14  5    15.0 1   271.0     1.50    12.10    99.00    99.00
 7 10 14  6    15.0 1   299.0     2.60    11.80    99.00    99.00
 7 10 14  7    15.0 1   315.0     2.60    11.40    99.00    99.00
 7 10 14  8    15.0 1   330.0     3.10    12.50    99.00    99.00
 7 10 14  9    15.0 1   328.0     1.50    14.80    99.00    99.00
 7 10 14 10    15.0 1   324.0     1.00    17.10    99.00    99.00
 7 10 14 11    15.0 1   315.0     1.00    18.90    99.00    99.00
 7 10 14 12    15.0 1   332.0     0.50    20.60    99.00    99.00
 7 10 14 13    15.0 1   343.0     0.50    21.90    99.00    99.00
 7 10 14 14    15.0 1     5.0     1.00    22.80    99.00    99.00
 7 10 14 15    15.0 1     6.0     1.50    23.10    99.00    99.00
 7 10 14 16    15.0 1    20.0     2.10    23.10    99.00    99.00
 7 10 14 17    15.0 1    22.0     2.60    22.60    99.00    99.00
 7 10 14 18    15.0 1    29.0     2.10    21.50    99.00    99.00
 7 10 14 19    15.0 1    52.0     1.00    20.10    99.00    99.00
 7 10 14 20    15.0 1   214.0     0.50    18.60    99.00    99.00
 7 10 14 21    15.0 1   264.0     4.10    16.90    99.00    99.00
 7 10 14 22    15.0 1   279.0     3.60    15.00    99.00    99.00
 7 10 14 23    15.0 1   281.0     3.10    14.10    99.00    99.00
 7 10 14 24    15.0 1   284.0     2.60    13.40    99.00    99.00
 7 10 15  1    15.0 1   266.0     2.60    12.60    99.00    99.00
 7 10 15  2    15.0 1   282.0     2.10    12.10    99.00    99.00
 7 10 15  3    15.0 1   271.0     1.50    11.90    99.00    99.00
 7 10 15  4    15.0 1   264.0     1.50    11.60    99.00    99.00
 7 10 15  5    15.0 1   231.0     0.50    11.50    99.00    99.00
 7 10 15  6    15.0 1   197.0     0.50    11.40    99.00    99.00
 7 10 15  7    15.0 1   155.0     0.50    11.10    99.00    99.00
 7 10 15  8    15.0 1   211.0     0.50    12.10    99.00    99.00
 7 10 15  9    15.0 1     0.0     0.00    14.10    99.00    99.00
 7 10 15 10    15.0 1     0.0     0.00    15.60    99.00    99.00
 7 10 15 11    15.0 1     0.0     0.00    17.30    99.00    99.00
 7 10 15 12    15.0 1     0.0     0.00    18.60    99.00    99.00
 7 10 15 13    15.0 1     0.0     0.00    20.00    99.00    99.00
 7 10 15 14    15.0 1     0.0     0.00    21.00    99.00    99.00
 7 10 15 15    15.0 1   334.0     0.50    21.60    99.00    99.00
 7 10 15 16    15.0 1     2.0     1.00    21.80    99.00    99.00
 7 10 15 17    15.0 1    29.0     1.50    21.60    99.00    99.00
 7 10 15 18    15.0 1   349.0     2.10    20.60    99.00    99.00
 7 10 15 19    15.0 1   294.0     4.10    18.60    99.00    99.00
 7 10 15 20    15.0 1   258.0     4.10    15.60    99.00    99.00
 7 10 15 21    15.0 1   250.0     3.60    14.40    99.00    99.00
 7 10 15 22    15.0 1   252.0     3.10    13.90    99.00    99.00
 7 10 15 23    15.0 1   263.0     2.10    13.60    99.00    99.00
 7 10 15 24    15.0 1   266.0     1.50    13.40    99.00    99.00
 7 10 16  1    15.0 1   273.0     1.50    13.60    99.00    99.00
 7 10 16  2    15.0 1   283.0     2.60    13.80    99.00    99.00
 7 10 16  3    15.0 1   303.0     3.10    14.00    99.00    99.00
 7 10 16  4    15.0 1   304.0     3.60    14.10    99.00    99.00
 7 10 16  5    15.0 1   307.0     3.60    14.10    99.00    99.00
 7 10 16  6    15.0 1   310.0     4.10    14.10    99.00    99.00
 7 10 16  7    15.0 1   300.0     4.10    14.00    99.00    99.00
 7 10 16  8    15.0 1   304.0     4.10    13.90    99.00    99.00
 7 10 16  9    15.0 1   308.0     5.10    14.60    99.00    99.00
 7 10 16 10    15.0 1   318.0     3.10    15.80    99.00    99.00
 7 10 16 11    15.0 1   319.0     2.10    17.00    99.00    99.00
 7 10 16 12    15.0 1   337.0     1.00    18.00    99.00    99.00
 7 10 16 13    15.0 1   336.0     1.00    18.90    99.00    99.00
 7 10 16 14    15.0 1   347.0     1.00    19.60    99.00    99.00
 7 10 16 15    15.0 1     1.0     2.10    20.00    99.00    99.00
 7 10 16 16    15.0 1     6.0     2.60    19.90    99.00    99.00
 7 10 16 17    15.0 1    29.0     2.60    19.30    99.00    99.00
 7 10 16 18    15.0 1    33.0     3.60    18.30    99.00    99.00
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 7 10 16 19     15.0 1    30.0      1.50    17.40    99.00    99.00
 7 10 16 20     15.0 1   254.0      2.60    16.10    99.00    99.00
 7 10 16 21     15.0 1   258.0      4.60    14.10    99.00    99.00
 7 10 16 22     15.0 1   273.0      4.60    13.10    99.00    99.00
 7 10 16 23     15.0 1   272.0      4.10    12.50    99.00    99.00
 7 10 16 24     15.0 1   265.0      3.10    12.10    99.00    99.00
 7 10 17  1     15.0 1   219.0      1.50    12.30    99.00    99.00
 7 10 17  2     15.0 1   149.0      2.10    12.40    99.00    99.00
 7 10 17  3     15.0 1   118.0      3.10    12.40    99.00    99.00
 7 10 17  4     15.0 1   106.0      3.10    12.60    99.00    99.00
 7 10 17  5     15.0 1   119.0      2.60    12.60    99.00    99.00
 7 10 17  6     15.0 1   128.0      2.60    12.60    99.00    99.00
 7 10 17  7     15.0 1   160.0      1.50    12.60    99.00    99.00
 7 10 17  8     15.0 1   197.0      1.50    12.80    99.00    99.00
 7 10 17  9     15.0 1   264.0      1.50    13.50    99.00    99.00
 7 10 17 10     15.0 1   281.0      1.00    14.10    99.00    99.00
 7 10 17 11     15.0 1     0.0      0.00    15.90    99.00    99.00
 7 10 17 12     15.0 1    23.0      0.50    17.10    99.00    99.00
 7 10 17 13     15.0 1    32.0      1.50    17.60    99.00    99.00
 7 10 17 14     15.0 1    12.0      1.50    18.40    99.00    99.00
 7 10 17 15     15.0 1   347.0      2.60    18.60    99.00    99.00
 7 10 17 16     15.0 1   347.0      3.10    18.10    99.00    99.00
 7 10 17 17     15.0 1   354.0      2.60    18.00    99.00    99.00
 7 10 17 18     15.0 1   337.0      3.60    16.90    99.00    99.00
 7 10 17 19     15.0 1   342.0      3.60    15.50    99.00    99.00
 7 10 17 20     15.0 1   340.0      3.60    14.60    99.00    99.00
 7 10 17 21     15.0 1   338.0      3.10    14.00    99.00    99.00
 7 10 17 22     15.0 1   349.0      1.50    13.50    99.00    99.00
 7 10 17 23     15.0 1   337.0      0.50    13.00    99.00    99.00
 7 10 17 24     15.0 1     0.0      0.00    12.30    99.00    99.00
 7 10 18  1     15.0 1     0.0      0.00    11.60    99.00    99.00
 7 10 18  2     15.0 1     0.0      0.00    11.30    99.00    99.00
 7 10 18  3     15.0 1   284.0      0.50    10.90    99.00    99.00
 7 10 18  4     15.0 1   291.0      0.50    10.60    99.00    99.00
 7 10 18  5     15.0 1   288.0      1.00    10.30    99.00    99.00
 7 10 18  6     15.0 1   303.0      1.50    10.00    99.00    99.00
 7 10 18  7     15.0 1   302.0      1.00     9.60    99.00    99.00
 7 10 18  8     15.0 1   335.0      0.50    10.60    99.00    99.00
 7 10 18  9     15.0 1     0.0      0.00    12.60    99.00    99.00
 7 10 18 10     15.0 1     0.0      0.00    14.40    99.00    99.00
 7 10 18 11     15.0 1     0.0      0.00    15.80    99.00    99.00
 7 10 18 12     15.0 1     0.0      0.00    17.50    99.00    99.00
 7 10 18 13     15.0 1     0.0      0.00    18.80    99.00    99.00
 7 10 18 14     15.0 1   300.0      0.50    19.60    99.00    99.00
 7 10 18 15     15.0 1   344.0      0.50    20.10    99.00    99.00
 7 10 18 16     15.0 1   346.0      1.50    20.30    99.00    99.00
 7 10 18 17     15.0 1   358.0      1.50    20.00    99.00    99.00
 7 10 18 18     15.0 1     7.0      1.50    19.10    99.00    99.00
 7 10 18 19     15.0 1    65.0      1.00    17.90    99.00    99.00
 7 10 18 20     15.0 1   111.0      0.50    16.60    99.00    99.00
 7 10 18 21     15.0 1   135.0      1.00    15.60    99.00    99.00
 7 10 18 22     15.0 1   116.0      1.00    14.80    99.00    99.00
 7 10 18 23     15.0 1   116.0      1.50    14.10    99.00    99.00
 7 10 18 24     15.0 1   130.0      1.00    13.60    99.00    99.00
 7 10 19  1     15.0 1   130.0      1.00    13.10    99.00    99.00
 7 10 19  2     15.0 1   114.0      1.50    12.60    99.00    99.00
 7 10 19  3     15.0 1   108.0      1.50    12.10    99.00    99.00
 7 10 19  4     15.0 1   118.0      1.50    11.80    99.00    99.00
 7 10 19  5     15.0 1   134.0      1.50    11.50    99.00    99.00
 7 10 19  6     15.0 1   128.0      1.00    11.30    99.00    99.00
 7 10 19  7     15.0 1   124.0      1.00    11.10    99.00    99.00
 7 10 19  8     15.0 1   106.0      1.00    11.80    99.00    99.00
 7 10 19  9     15.0 1   154.0      0.50    15.60    99.00    99.00
 7 10 19 10     15.0 1     0.0      0.00    17.80    99.00    99.00
 7 10 19 11     15.0 1     0.0      0.00    19.90    99.00    99.00
 7 10 19 12     15.0 1     0.0      0.00    21.30    99.00    99.00
 7 10 19 13     15.0 1     0.0      0.00    22.50    99.00    99.00
 7 10 19 14     15.0 1     0.0      0.00    23.50    99.00    99.00
 7 10 19 15     15.0 1    28.0      0.50    24.00    99.00    99.00
 7 10 19 16     15.0 1    38.0      1.00    24.10    99.00    99.00
 7 10 19 17     15.0 1    38.0      0.50    23.80    99.00    99.00
 7 10 19 18     15.0 1     0.0      0.00    22.40    99.00    99.00
 7 10 19 19     15.0 1   252.0      0.50    20.90    99.00    99.00
 7 10 19 20     15.0 1   254.0      1.00    19.80    99.00    99.00
 7 10 19 21     15.0 1   259.0      2.10    18.80    99.00    99.00
 7 10 19 22     15.0 1   283.0      3.10    17.60    99.00    99.00
 7 10 19 23     15.0 1   322.0      5.10    16.30    99.00    99.00
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7	10	19	24	15.0	1	326.0	3.60	15.50	99.00	99.00
7	10	20	1	15.0	1	336.0	2.60	15.10	99.00	99.00
7	10	20	2	15.0	1	340.0	2.10	15.10	99.00	99.00
7	10	20	3	15.0	1	300.0	2.10	15.50	99.00	99.00
7	10	20	4	15.0	1	306.0	3.60	16.00	99.00	99.00
7	10	20	5	15.0	1	324.0	5.70	16.00	99.00	99.00
7	10	20	6	15.0	1	320.0	7.70	14.60	99.00	99.00
7	10	20	7	15.0	1	325.0	5.70	13.50	99.00	99.00
7	10	20	8	15.0	1	330.0	8.20	14.10	99.00	99.00
7	10	20	9	15.0	1	334.0	8.20	15.10	99.00	99.00
7	10	20	10	15.0	1	327.0	7.70	15.90	99.00	99.00
7	10	20	11	15.0	1	334.0	6.70	16.60	99.00	99.00
7	10	20	12	15.0	1	326.0	6.70	17.30	99.00	99.00
7	10	20	13	15.0	1	339.0	6.70	17.40	99.00	99.00
7	10	20	14	15.0	1	344.0	6.20	17.60	99.00	99.00
7	10	20	15	15.0	1	334.0	6.70	18.00	99.00	99.00
7	10	20	16	15.0	1	332.0	5.70	17.90	99.00	99.00
7	10	20	17	15.0	1	323.0	4.10	16.90	99.00	99.00
7	10	20	18	15.0	1	311.0	4.10	15.40	99.00	99.00
7	10	20	19	15.0	1	308.0	3.60	14.40	99.00	99.00
7	10	20	20	15.0	1	306.0	3.10	13.60	99.00	99.00
7	10	20	21	15.0	1	266.0	1.00	13.10	99.00	99.00
7	10	20	22	15.0	1	199.0	1.50	13.10	99.00	99.00
7	10	20	23	15.0	1	185.0	4.10	12.10	99.00	99.00
7	10	20	24	15.0	1	197.0	3.60	11.40	99.00	99.00
7	10	21	1	15.0	1	226.0	3.10	11.00	99.00	99.00
7	10	21	2	15.0	1	258.0	2.60	10.40	99.00	99.00
7	10	21	3	15.0	1	270.0	2.10	9.60	99.00	99.00
7	10	21	4	15.0	1	259.0	2.10	9.10	99.00	99.00
7	10	21	5	15.0	1	251.0	3.10	8.60	99.00	99.00
7	10	21	6	15.0	1	253.0	4.10	8.30	99.00	99.00
7	10	21	7	15.0	1	265.0	4.10	8.00	99.00	99.00
7	10	21	8	15.0	1	271.0	4.10	9.30	99.00	99.00
7	10	21	9	15.0	1	282.0	4.10	11.50	99.00	99.00
7	10	21	10	15.0	1	281.0	3.60	13.80	99.00	99.00
7	10	21	11	15.0	1	279.0	2.60	15.60	99.00	99.00
7	10	21	12	15.0	1	286.0	2.10	17.10	99.00	99.00
7	10	21	13	15.0	1	296.0	2.10	18.40	99.00	99.00
7	10	21	14	15.0	1	325.0	1.50	19.40	99.00	99.00
7	10	21	15	15.0	1	326.0	2.10	19.90	99.00	99.00
7	10	21	16	15.0	1	347.0	2.60	19.90	99.00	99.00
7	10	21	17	15.0	1	6.0	3.10	19.00	99.00	99.00
7	10	21	18	15.0	1	36.0	3.60	17.80	99.00	99.00
7	10	21	19	15.0	1	75.0	2.10	16.60	99.00	99.00
7	10	21	20	15.0	1	192.0	1.50	15.30	99.00	99.00
7	10	21	21	15.0	1	212.0	2.60	14.30	99.00	99.00
7	10	21	22	15.0	1	190.0	2.60	13.50	99.00	99.00
7	10	21	23	15.0	1	158.0	3.10	12.90	99.00	99.00
7	10	21	24	15.0	1	163.0	3.60	12.40	99.00	99.00
7	10	22	1	15.0	1	163.0	3.60	12.00	99.00	99.00
7	10	22	2	15.0	1	152.0	3.60	11.50	99.00	99.00
7	10	22	3	15.0	1	132.0	4.10	11.10	99.00	99.00
7	10	22	4	15.0	1	121.0	4.10	10.90	99.00	99.00
7	10	22	5	15.0	1	114.0	4.10	10.60	99.00	99.00
7	10	22	6	15.0	1	97.0	4.10	10.50	99.00	99.00
7	10	22	7	15.0	1	96.0	3.60	10.40	99.00	99.00
7	10	22	8	15.0	1	99.0	3.10	11.10	99.00	99.00
7	10	22	9	15.0	1	101.0	2.60	14.60	99.00	99.00
7	10	22	10	15.0	1	92.0	2.10	17.10	99.00	99.00
7	10	22	11	15.0	1	70.0	1.50	19.30	99.00	99.00
7	10	22	12	15.0	1	49.0	1.50	21.40	99.00	99.00
7	10	22	13	15.0	1	31.0	2.10	22.80	99.00	99.00
7	10	22	14	15.0	1	35.0	2.60	23.50	99.00	99.00
7	10	22	15	15.0	1	35.0	3.60	23.30	99.00	99.00
7	10	22	16	15.0	1	33.0	4.10	23.30	99.00	99.00
7	10	22	17	15.0	1	32.0	4.10	21.40	99.00	99.00
7	10	22	18	15.0	1	54.0	4.10	20.10	99.00	99.00
7	10	22	19	15.0	1	84.0	1.50	19.50	99.00	99.00
7	10	22	20	15.0	1	174.0	1.00	18.10	99.00	99.00
7	10	22	21	15.0	1	181.0	1.50	17.10	99.00	99.00
7	10	22	22	15.0	1	165.0	2.10	16.10	99.00	99.00
7	10	22	23	15.0	1	147.0	2.10	15.60	99.00	99.00
7	10	22	24	15.0	1	137.0	2.10	15.40	99.00	99.00
7	10	23	1	15.0	1	134.0	1.50	15.10	99.00	99.00
7	10	23	2	15.0	1	115.0	1.50	14.80	99.00	99.00
7	10	23	3	15.0	1	78.0	1.50	14.50	99.00	99.00
7	10	23	4	15.0	1	57.0	1.50	14.10	99.00	99.00

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 7 10 23  5    15.0 1    55.0     1.50    13.80    99.00    99.00
 7 10 23  6    15.0 1    43.0     1.00    13.40    99.00    99.00
 7 10 23  7    15.0 1    62.0     0.50    13.10    99.00    99.00
 7 10 23  8    15.0 1    93.0     0.50    13.30    99.00    99.00
 7 10 23  9    15.0 1     2.0     0.50    16.30    99.00    99.00
 7 10 23 10    15.0 1   336.0     0.50    18.80    99.00    99.00
 7 10 23 11    15.0 1     0.0     0.00    20.90    99.00    99.00
 7 10 23 12    15.0 1   346.0     0.50    22.60    99.00    99.00
 7 10 23 13    15.0 1     0.0     0.00    24.30    99.00    99.00
 7 10 23 14    15.0 1    10.0     1.50    25.00    99.00    99.00
 7 10 23 15    15.0 1    15.0     2.10    25.10    99.00    99.00
 7 10 23 16    15.0 1    21.0     2.60    24.60    99.00    99.00
 7 10 23 17    15.0 1    38.0     3.60    23.60    99.00    99.00
 7 10 23 18    15.0 1    51.0     3.60    22.60    99.00    99.00
 7 10 23 19    15.0 1    58.0     2.10    21.50    99.00    99.00
 7 10 23 20    15.0 1    47.0     0.50    20.10    99.00    99.00
 7 10 23 21    15.0 1     0.0     0.00    19.10    99.00    99.00
 7 10 23 22    15.0 1    26.0     0.50    18.30    99.00    99.00
 7 10 23 23    15.0 1    34.0     0.50    17.60    99.00    99.00
 7 10 23 24    15.0 1    24.0     0.50    17.10    99.00    99.00
 7 10 24  1    15.0 1    31.0     0.50    16.60    99.00    99.00
 7 10 24  2    15.0 1    28.0     0.50    16.40    99.00    99.00
 7 10 24  3    15.0 1    30.0     0.50    16.00    99.00    99.00
 7 10 24  4    15.0 1    32.0     0.50    15.60    99.00    99.00
 7 10 24  5    15.0 1    35.0     0.50    15.30    99.00    99.00
 7 10 24  6    15.0 1    30.0     0.50    15.00    99.00    99.00
 7 10 24  7    15.0 1    43.0     0.50    14.60    99.00    99.00
 7 10 24  8    15.0 1    32.0     0.50    14.80    99.00    99.00
 7 10 24  9    15.0 1   349.0     0.50    18.10    99.00    99.00
 7 10 24 10    15.0 1   331.0     1.00    20.40    99.00    99.00
 7 10 24 11    15.0 1   330.0     0.50    22.50    99.00    99.00
 7 10 24 12    15.0 1   330.0     0.50    24.40    99.00    99.00
 7 10 24 13    15.0 1   338.0     0.50    26.00    99.00    99.00
 7 10 24 14    15.0 1   351.0     1.00    27.10    99.00    99.00
 7 10 24 15    15.0 1   356.0     1.50    27.60    99.00    99.00
 7 10 24 16    15.0 1     0.0     0.00    27.50    99.00    99.00
 7 10 24 17    15.0 1     7.0     2.60    26.60    99.00    99.00
 7 10 24 18    15.0 1    24.0     2.10    25.10    99.00    99.00
 7 10 24 19    15.0 1    23.0     0.50    23.60    99.00    99.00
 7 10 24 20    15.0 1     0.0     0.00    22.10    99.00    99.00
 7 10 24 21    15.0 1   155.0     0.50    21.60    99.00    99.00
 7 10 24 22    15.0 1   181.0     0.50    21.30    99.00    99.00
 7 10 24 23    15.0 1     0.0     0.00    20.60    99.00    99.00
 7 10 24 24    15.0 1    24.0     0.50    19.60    99.00    99.00
 7 10 25  1    15.0 1     0.0     0.00    18.60    99.00    99.00
 7 10 25  2    15.0 1   347.0     2.10    17.90    99.00    99.00
 7 10 25  3    15.0 1   343.0     2.10    17.30    99.00    99.00
 7 10 25  4    15.0 1   332.0     2.10    16.80    99.00    99.00
 7 10 25  5    15.0 1   335.0     2.10    16.40    99.00    99.00
 7 10 25  6    15.0 1   334.0     2.10    15.90    99.00    99.00
 7 10 25  7    15.0 1   323.0     2.10    15.50    99.00    99.00
 7 10 25  8    15.0 1   323.0     2.10    15.60    99.00    99.00
 7 10 25  9    15.0 1   335.0     2.60    18.10    99.00    99.00
 7 10 25 10    15.0 1   309.0     1.50    19.90    99.00    99.00
 7 10 25 11    15.0 1   301.0     0.50    21.80    99.00    99.00
 7 10 25 12    15.0 1     0.0     0.00    23.80    99.00    99.00
 7 10 25 13    15.0 1   318.0     0.50    25.00    99.00    99.00
 7 10 25 14    15.0 1   325.0     1.00    25.80    99.00    99.00
 7 10 25 15    15.0 1   335.0     1.50    26.10    99.00    99.00
 7 10 25 16    15.0 1   345.0     2.10    26.10    99.00    99.00
 7 10 25 17    15.0 1   336.0     2.60    25.50    99.00    99.00
 7 10 25 18    15.0 1   341.0     2.10    24.10    99.00    99.00
 7 10 25 19    15.0 1   298.0     1.00    22.80    99.00    99.00
 7 10 25 20    15.0 1   289.0     1.00    21.60    99.00    99.00
 7 10 25 21    15.0 1   296.0     1.00    20.80    99.00    99.00
 7 10 25 22    15.0 1   315.0     2.10    20.00    99.00    99.00
 7 10 25 23    15.0 1   328.0     3.10    19.00    99.00    99.00
 7 10 25 24    15.0 1   337.0     3.10    17.90    99.00    99.00
 7 10 26  1    15.0 1   339.0     3.10    16.90    99.00    99.00
 7 10 26  2    15.0 1   339.0     2.60    16.30    99.00    99.00
 7 10 26  3    15.0 1   336.0     2.10    15.80    99.00    99.00
 7 10 26  4    15.0 1   337.0     1.50    15.30    99.00    99.00
 7 10 26  5    15.0 1   340.0     1.50    14.90    99.00    99.00
 7 10 26  6    15.0 1   349.0     1.00    14.50    99.00    99.00
 7 10 26  7    15.0 1   356.0     0.50    14.10    99.00    99.00
 7 10 26  8    15.0 1   350.0     1.50    14.40    99.00    99.00
 7 10 26  9    15.0 1   347.0     1.00    15.90    99.00    99.00
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 7 10 26 10    15.0 1     0.0     0.00    17.80    99.00    99.00
 7 10 26 11    15.0 1     0.0     0.00    19.50    99.00    99.00
 7 10 26 12    15.0 1   289.0     0.50    20.60    99.00    99.00
 7 10 26 13    15.0 1   300.0     1.00    21.50    99.00    99.00
 7 10 26 14    15.0 1   325.0     1.00    22.10    99.00    99.00
 7 10 26 15    15.0 1   332.0     1.50    22.30    99.00    99.00
 7 10 26 16    15.0 1   349.0     2.60    22.10    99.00    99.00
 7 10 26 17    15.0 1    12.0     3.10    21.40    99.00    99.00
 7 10 26 18    15.0 1    23.0     2.60    20.60    99.00    99.00
 7 10 26 19    15.0 1    17.0     1.50    20.10    99.00    99.00
 7 10 26 20    15.0 1   340.0     1.00    19.60    99.00    99.00
 7 10 26 21    15.0 1   299.0     1.50    19.30    99.00    99.00
 7 10 26 22    15.0 1   305.0     3.10    18.90    99.00    99.00
 7 10 26 23    15.0 1   312.0     3.60    18.30    99.00    99.00
 7 10 26 24    15.0 1   315.0     3.60    17.80    99.00    99.00
 7 10 27  1    15.0 1   319.0     3.10    17.60    99.00    99.00
 7 10 27  2    15.0 1   339.0     3.10    17.50    99.00    99.00
 7 10 27  3    15.0 1   348.0     3.10    17.40    99.00    99.00
 7 10 27  4    15.0 1   347.0     2.60    17.10    99.00    99.00
 7 10 27  5    15.0 1   354.0     2.10    17.10    99.00    99.00
 7 10 27  6    15.0 1   318.0     2.60    16.90    99.00    99.00
 7 10 27  7    15.0 1   325.0     3.10    16.60    99.00    99.00
 7 10 27  8    15.0 1   322.0     3.10    16.60    99.00    99.00
 7 10 27  9    15.0 1   328.0     3.10    17.10    99.00    99.00
 7 10 27 10    15.0 1   344.0     3.60    18.10    99.00    99.00
 7 10 27 11    15.0 1   344.0     3.10    18.80    99.00    99.00
 7 10 27 12    15.0 1   317.0     3.60    19.10    99.00    99.00
 7 10 27 13    15.0 1   325.0     3.60    19.30    99.00    99.00
 7 10 27 14    15.0 1   325.0     3.60    19.30    99.00    99.00
 7 10 27 15    15.0 1   324.0     3.60    19.10    99.00    99.00
 7 10 27 16    15.0 1   305.0     4.60    16.60    99.00    99.00
 7 10 27 17    15.0 1   301.0     3.10    15.90    99.00    99.00
 7 10 27 18    15.0 1   305.0     3.60    15.50    99.00    99.00
 7 10 27 19    15.0 1   299.0     2.10    15.40    99.00    99.00
 7 10 27 20    15.0 1   309.0     1.00    15.30    99.00    99.00
 7 10 27 21    15.0 1     0.0     0.00    15.10    99.00    99.00
 7 10 27 22    15.0 1   109.0     1.50    14.90    99.00    99.00
 7 10 27 23    15.0 1   133.0     2.10    14.40    99.00    99.00
 7 10 27 24    15.0 1   140.0     2.10    13.90    99.00    99.00
 7 10 28  1    15.0 1   145.0     2.10    13.00    99.00    99.00
 7 10 28  2    15.0 1   109.0     1.50    12.10    99.00    99.00
 7 10 28  3    15.0 1    69.0     1.00    11.50    99.00    99.00
 7 10 28  4    15.0 1    50.0     1.00    11.50    99.00    99.00
 7 10 28  5    15.0 1    20.0     1.00    11.80    99.00    99.00
 7 10 28  6    15.0 1    15.0     1.00    12.10    99.00    99.00
 7 10 28  7    15.0 1   346.0     1.00    12.10    99.00    99.00
 7 10 28  8    15.0 1   345.0     1.00    12.10    99.00    99.00
 7 10 28  9    15.0 1   343.0     0.50    12.90    99.00    99.00
 7 10 28 10    15.0 1   307.0     0.50    14.30    99.00    99.00
 7 10 28 11    15.0 1   307.0     0.50    16.10    99.00    99.00
 7 10 28 12    15.0 1   328.0     0.50    17.80    99.00    99.00
 7 10 28 13    15.0 1   351.0     0.50    18.90    99.00    99.00
 7 10 28 14    15.0 1     0.0     0.00    19.60    99.00    99.00
 7 10 28 15    15.0 1     6.0     1.00    20.10    99.00    99.00
 7 10 28 16    15.0 1     8.0     1.00    20.10    99.00    99.00
 7 10 28 17    15.0 1     0.0     0.00    19.60    99.00    99.00
 7 10 28 18    15.0 1     0.0     0.00    18.90    99.00    99.00
 7 10 28 19    15.0 1     0.0     0.00    18.30    99.00    99.00
 7 10 28 20    15.0 1     0.0     0.00    17.90    99.00    99.00
 7 10 28 21    15.0 1     0.0     0.00    17.60    99.00    99.00
 7 10 28 22    15.0 1     0.0     0.00    17.40    99.00    99.00
 7 10 28 23    15.0 1    60.0     0.50    17.10    99.00    99.00
 7 10 28 24    15.0 1    39.0     0.50    17.10    99.00    99.00
 7 10 29  1    15.0 1    29.0     1.00    17.10    99.00    99.00
 7 10 29  2    15.0 1     8.0     0.50    17.10    99.00    99.00
 7 10 29  3    15.0 1   339.0     0.50    17.00    99.00    99.00
 7 10 29  4    15.0 1   333.0     0.50    17.00    99.00    99.00
 7 10 29  5    15.0 1   355.0     0.50    17.00    99.00    99.00
 7 10 29  6    15.0 1     4.0     1.00    17.00    99.00    99.00
 7 10 29  7    15.0 1     9.0     1.00    17.00    99.00    99.00
 7 10 29  8    15.0 1    48.0     0.50    16.90    99.00    99.00
 7 10 29  9    15.0 1   293.0     1.00    17.60    99.00    99.00
 7 10 29 10    15.0 1   314.0     2.60    19.90    99.00    99.00
 7 10 29 11    15.0 1   327.0     1.50    21.80    99.00    99.00
 7 10 29 12    15.0 1   355.0     1.50    23.50    99.00    99.00
 7 10 29 13    15.0 1   336.0     1.00    24.60    99.00    99.00
 7 10 29 14    15.0 1   306.0     1.50    25.40    99.00    99.00
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 7 10 29 15     15.0 1    283.0      4.10     25.40     99.00     99.00
 7 10 29 16     15.0 1    303.0      3.60     24.40     99.00     99.00
 7 10 29 17     15.0 1    302.0      3.10     23.50     99.00     99.00
 7 10 29 18     15.0 1    279.0      4.60     22.10     99.00     99.00
 7 10 29 19     15.0 1    273.0      4.60     19.90     99.00     99.00
 7 10 29 20     15.0 1    266.0      4.10     18.60     99.00     99.00
 7 10 29 21     15.0 1    272.0      3.60     17.90     99.00     99.00
 7 10 29 22     15.0 1    258.0      3.10     17.10     99.00     99.00
 7 10 29 23     15.0 1    261.0      3.10     16.60     99.00     99.00
 7 10 29 24     15.0 1    265.0      2.60     16.30     99.00     99.00
 7 10 30  1     15.0 1    280.0      2.60     16.00     99.00     99.00
 7 10 30  2     15.0 1    295.0      2.10     16.00     99.00     99.00
 7 10 30  3     15.0 1    293.0      2.10     16.10     99.00     99.00
 7 10 30  4     15.0 1    296.0      2.60     16.10     99.00     99.00
 7 10 30  5     15.0 1    318.0      2.60     16.00     99.00     99.00
 7 10 30  6     15.0 1    316.0      3.10     15.60     99.00     99.00
 7 10 30  7     15.0 1    307.0      3.60     15.30     99.00     99.00
 7 10 30  8     15.0 1    309.0      4.10     15.10     99.00     99.00
 7 10 30  9     15.0 1    317.0      5.10     15.50     99.00     99.00
 7 10 30 10     15.0 1    344.0      4.60     16.50     99.00     99.00
 7 10 30 11     15.0 1    330.0      3.10     17.40     99.00     99.00
 7 10 30 12     15.0 1    296.0      1.50     18.00     99.00     99.00
 7 10 30 13     15.0 1    293.0      1.00     18.60     99.00     99.00
 7 10 30 14     15.0 1    278.0      0.50     19.10     99.00     99.00
 7 10 30 15     15.0 1      0.0      0.00     19.60     99.00     99.00
 7 10 30 16     15.0 1      0.0      0.00     19.60     99.00     99.00
 7 10 30 17     15.0 1     94.0      0.50     19.40     99.00     99.00
 7 10 30 18     15.0 1    114.0      1.00     18.40     99.00     99.00
 7 10 30 19     15.0 1    143.0      1.50     17.40     99.00     99.00
 7 10 30 20     15.0 1    158.0      2.10     16.40     99.00     99.00
 7 10 30 21     15.0 1    169.0      2.10     15.60     99.00     99.00
 7 10 30 22     15.0 1    170.0      1.50     15.10     99.00     99.00
 7 10 30 23     15.0 1    159.0      1.00     14.60     99.00     99.00
 7 10 30 24     15.0 1    127.0      1.00     14.10     99.00     99.00
 7 10 31  1     15.0 1    130.0      0.50     13.60     99.00     99.00
 7 10 31  2     15.0 1      0.0      0.00     13.60     99.00     99.00
 7 10 31  3     15.0 1    256.0      0.50     13.90     99.00     99.00
 7 10 31  4     15.0 1    267.0      1.00     14.00     99.00     99.00
 7 10 31  5     15.0 1    290.0      2.10     14.10     99.00     99.00
 7 10 31  6     15.0 1    307.0      2.60     14.00     99.00     99.00
 7 10 31  7     15.0 1    325.0      2.60     13.80     99.00     99.00
 7 10 31  8     15.0 1    331.0      2.10     13.60     99.00     99.00
 7 10 31  9     15.0 1    326.0      2.10     13.80     99.00     99.00
 7 10 31 10     15.0 1    294.0      1.00     14.90     99.00     99.00
 7 10 31 11     15.0 1    279.0      0.50     16.60     99.00     99.00
 7 10 31 12     15.0 1    311.0      0.50     18.40     99.00     99.00
 7 10 31 13     15.0 1    335.0      1.00     19.60     99.00     99.00
 7 10 31 14     15.0 1    344.0      2.10     20.50     99.00     99.00
 7 10 31 15     15.0 1    350.0      2.60     20.60     99.00     99.00
 7 10 31 16     15.0 1      0.0      0.00     20.50     99.00     99.00
 7 10 31 17     15.0 1      9.0      3.10     19.80     99.00     99.00
 7 10 31 18     15.0 1     13.0      2.60     18.80     99.00     99.00
 7 10 31 19     15.0 1     19.0      1.50     17.80     99.00     99.00
 7 10 31 20     15.0 1      0.0      0.00     16.80     99.00     99.00
 7 10 31 21     15.0 1      0.0      0.00     15.90     99.00     99.00
 7 10 31 22     15.0 1      0.0      0.00     15.10     99.00     99.00
 7 10 31 23     15.0 1      0.0      0.00     14.40     99.00     99.00
 7 10 31 24     15.0 1      0.0      0.00     13.80     99.00     99.00
 7 11  1  1     15.0 1      0.0      0.00     13.40     99.00     99.00
 7 11  1  2     15.0 1    300.0      0.50     13.00     99.00     99.00
 7 11  1  3     15.0 1    290.0      1.50     12.60     99.00     99.00
 7 11  1  4     15.0 1    287.0      2.60     12.50     99.00     99.00
 7 11  1  5     15.0 1    290.0      2.60     12.00     99.00     99.00
 7 11  1  6     15.0 1    291.0      2.60     11.60     99.00     99.00
 7 11  1  7     15.0 1    280.0      2.10     11.10     99.00     99.00
 7 11  1  8     15.0 1    275.0      1.50     11.40     99.00     99.00
 7 11  1  9     15.0 1    308.0      1.50     13.10     99.00     99.00
 7 11  1 10     15.0 1      0.0      0.00     14.80     99.00     99.00
 7 11  1 11     15.0 1    248.0      0.50     16.80     99.00     99.00
 7 11  1 12     15.0 1    270.0      0.50     18.10     99.00     99.00
 7 11  1 13     15.0 1    282.0      0.50     19.10     99.00     99.00
 7 11  1 14     15.0 1    307.0      0.50     20.10     99.00     99.00
 7 11  1 15     15.0 1    331.0      1.50     20.50     99.00     99.00
 7 11  1 16     15.0 1    349.0      2.10     20.80     99.00     99.00
 7 11  1 17     15.0 1      1.0      2.60     20.10     99.00     99.00
 7 11  1 18     15.0 1    359.0      1.50     19.10     99.00     99.00
 7 11  1 19     15.0 1      0.0      0.00     17.80     99.00     99.00
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 7 11   1 20     15.0 1   215.0      0.50     16.50     99.00     99.00
 7 11   1 21     15.0 1   217.0      0.50     15.50     99.00     99.00
 7 11   1 22     15.0 1     0.0      0.00     14.60     99.00     99.00
 7 11   1 23     15.0 1     0.0      0.00     13.90     99.00     99.00
 7 11   1 24     15.0 1     0.0      0.00     13.30     99.00     99.00
 7 11   2  1     15.0 1   294.0      1.00     13.00     99.00     99.00
 7 11   2  2     15.0 1   292.0      1.50     12.60     99.00     99.00
 7 11   2  3     15.0 1   281.0      2.10     12.30     99.00     99.00
 7 11   2  4     15.0 1   276.0      2.60     11.90     99.00     99.00
 7 11   2  5     15.0 1   277.0      2.60     11.50     99.00     99.00
 7 11   2  6     15.0 1   271.0      2.60     11.10     99.00     99.00
 7 11   2  7     15.0 1   256.0      2.60     10.80     99.00     99.00
 7 11   2  8     15.0 1   271.0      2.60     10.90     99.00     99.00
 7 11   2  9     15.0 1   306.0      2.10     12.60     99.00     99.00
 7 11   2 10     15.0 1   288.0      1.00     14.50     99.00     99.00
 7 11   2 11     15.0 1   276.0      0.50     16.50     99.00     99.00
 7 11   2 12     15.0 1   293.0      0.50     18.10     99.00     99.00
 7 11   2 13     15.0 1   309.0      0.50     19.40     99.00     99.00
 7 11   2 14     15.0 1   332.0      1.00     20.30     99.00     99.00
 7 11   2 15     15.0 1   348.0      1.50     20.60     99.00     99.00
 7 11   2 16     15.0 1     0.0      0.00     20.60     99.00     99.00
 7 11   2 17     15.0 1    22.0      2.10     20.10     99.00     99.00
 7 11   2 18     15.0 1    22.0      1.50     19.00     99.00     99.00
 7 11   2 19     15.0 1     0.0      0.00     17.60     99.00     99.00
 7 11   2 20     15.0 1   209.0      0.50     16.40     99.00     99.00
 7 11   2 21     15.0 1   238.0      0.50     15.40     99.00     99.00
 7 11   2 22     15.0 1   290.0      0.50     14.60     99.00     99.00
 7 11   2 23     15.0 1    25.0      0.50     14.00     99.00     99.00
 7 11   2 24     15.0 1    30.0      0.50     13.30     99.00     99.00
 7 11   3  1     15.0 1    32.0      1.00     12.80     99.00     99.00
 7 11   3  2     15.0 1     8.0      0.50     12.30     99.00     99.00
 7 11   3  3     15.0 1   298.0      0.50     11.90     99.00     99.00
 7 11   3  4     15.0 1   286.0      1.00     11.60     99.00     99.00
 7 11   3  5     15.0 1   292.0      1.50     11.40     99.00     99.00
 7 11   3  6     15.0 1   274.0      1.00     11.10     99.00     99.00
 7 11   3  7     15.0 1   248.0      1.00     10.90     99.00     99.00
 7 11   3  8     15.0 1   260.0      0.50     11.00     99.00     99.00
 7 11   3  9     15.0 1   290.0      1.50     13.60     99.00     99.00
 7 11   3 10     15.0 1   294.0      1.00     15.50     99.00     99.00
 7 11   3 11     15.0 1   321.0      0.50     17.60     99.00     99.00
 7 11   3 12     15.0 1   330.0      0.50     19.50     99.00     99.00
 7 11   3 13     15.0 1   333.0      1.00     21.10     99.00     99.00
 7 11   3 14     15.0 1   345.0      1.50     22.10     99.00     99.00
 7 11   3 15     15.0 1   351.0      2.10     22.30     99.00     99.00
 7 11   3 16     15.0 1     2.0      2.10     22.00     99.00     99.00
 7 11   3 17     15.0 1     0.0      0.00     21.10     99.00     99.00
 7 11   3 18     15.0 1    14.0      2.10     19.90     99.00     99.00
 7 11   3 19     15.0 1    44.0      1.50     18.50     99.00     99.00
 7 11   3 20     15.0 1    90.0      0.50     17.40     99.00     99.00
 7 11   3 21     15.0 1     0.0      0.00     16.60     99.00     99.00
 7 11   3 22     15.0 1    36.0      0.50     15.60     99.00     99.00
 7 11   3 23     15.0 1    17.0      1.00     14.80     99.00     99.00
 7 11   3 24     15.0 1     0.0      0.00     14.00     99.00     99.00
 7 11   4  1     15.0 1   349.0      1.50     13.30     99.00     99.00
 7 11   4  2     15.0 1   353.0      1.50     12.90     99.00     99.00
 7 11   4  3     15.0 1   328.0      1.00     12.50     99.00     99.00
 7 11   4  4     15.0 1   332.0      1.00     12.30     99.00     99.00
 7 11   4  5     15.0 1   330.0      1.00     12.10     99.00     99.00
 7 11   4  6     15.0 1     2.0      0.50     11.80     99.00     99.00
 7 11   4  7     15.0 1    25.0      0.50     11.40     99.00     99.00
 7 11   4  8     15.0 1    30.0      0.50     11.40     99.00     99.00
 7 11   4  9     15.0 1   322.0      1.50     14.10     99.00     99.00
 7 11   4 10     15.0 1   306.0      1.50     16.00     99.00     99.00
 7 11   4 11     15.0 1   315.0      1.50     18.10     99.00     99.00
 7 11   4 12     15.0 1   326.0      1.00     20.00     99.00     99.00
 7 11   4 13     15.0 1   332.0      1.00     21.40     99.00     99.00
 7 11   4 14     15.0 1   344.0      1.00     22.50     99.00     99.00
 7 11   4 15     15.0 1   360.0      1.50     22.90     99.00     99.00
 7 11   4 16     15.0 1    14.0      1.50     22.80     99.00     99.00
 7 11   4 17     15.0 1    25.0      1.50     22.00     99.00     99.00
 7 11   4 18     15.0 1    25.0      0.50     20.60     99.00     99.00
 7 11   4 19     15.0 1   236.0      0.50     19.00     99.00     99.00
 7 11   4 20     15.0 1   246.0      0.50     17.80     99.00     99.00
 7 11   4 21     15.0 1   268.0      0.50     16.80     99.00     99.00
 7 11   4 22     15.0 1   277.0      1.00     16.10     99.00     99.00
 7 11   4 23     15.0 1   307.0      0.50     15.40     99.00     99.00
 7 11   4 24     15.0 1   348.0      0.50     14.90     99.00     99.00
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 7 11   5   1    15.0 1     19.0      0.50     14.40     99.00     99.00
 7 11   5   2    15.0 1      0.0      0.00     13.80     99.00     99.00
 7 11   5   3    15.0 1      0.0      0.00     13.30     99.00     99.00
 7 11   5   4    15.0 1    250.0      0.50     12.90     99.00     99.00
 7 11   5   5    15.0 1    267.0      0.50     12.50     99.00     99.00
 7 11   5   6    15.0 1    281.0      0.50     12.10     99.00     99.00
 7 11   5   7    15.0 1    289.0      0.50     11.80     99.00     99.00
 7 11   5   8    15.0 1    287.0      0.50     11.80     99.00     99.00
 7 11   5   9    15.0 1    315.0      1.00     14.10     99.00     99.00
 7 11   5  10    15.0 1    300.0      1.00     16.00     99.00     99.00
 7 11   5  11    15.0 1    302.0      1.00     17.90     99.00     99.00
 7 11   5  12    15.0 1    305.0      1.50     19.80     99.00     99.00
 7 11   5  13    15.0 1    309.0      1.50     20.80     99.00     99.00
 7 11   5  14    15.0 1    316.0      2.10     21.50     99.00     99.00
 7 11   5  15    15.0 1    330.0      2.10     21.80     99.00     99.00
 7 11   5  16    15.0 1    338.0      2.10     21.60     99.00     99.00
 7 11   5  17    15.0 1    338.0      1.50     21.10     99.00     99.00
 7 11   5  18    15.0 1    334.0      0.50     20.00     99.00     99.00
 7 11   5  19    15.0 1      0.0      0.00     18.60     99.00     99.00
 7 11   5  20    15.0 1    209.0      0.50     17.30     99.00     99.00
 7 11   5  21    15.0 1    216.0      0.50     16.40     99.00     99.00
 7 11   5  22    15.0 1    267.0      0.50     15.60     99.00     99.00
 7 11   5  23    15.0 1    298.0      0.50     15.10     99.00     99.00
 7 11   5  24    15.0 1    309.0      1.00     14.60     99.00     99.00
 7 11   6   1    15.0 1    312.0      1.00     14.40     99.00     99.00
 7 11   6   2    15.0 1    301.0      1.00     14.10     99.00     99.00
 7 11   6   3    15.0 1    280.0      1.00     13.60     99.00     99.00
 7 11   6   4    15.0 1    264.0      1.00     13.30     99.00     99.00
 7 11   6   5    15.0 1    255.0      1.00     12.90     99.00     99.00
 7 11   6   6    15.0 1    252.0      1.50     12.60     99.00     99.00
 7 11   6   7    15.0 1    257.0      1.50     12.10     99.00     99.00
 7 11   6   8    15.0 1    262.0      1.50     12.10     99.00     99.00
 7 11   6   9    15.0 1    318.0      2.10     13.50     99.00     99.00
 7 11   6  10    15.0 1    304.0      1.00     15.00     99.00     99.00
 7 11   6  11    15.0 1    288.0      0.50     16.90     99.00     99.00
 7 11   6  12    15.0 1    293.0      0.50     18.80     99.00     99.00
 7 11   6  13    15.0 1    307.0      0.50     20.00     99.00     99.00
 7 11   6  14    15.0 1    327.0      0.50     20.80     99.00     99.00
 7 11   6  15    15.0 1    355.0      1.00     21.10     99.00     99.00
 7 11   6  16    15.0 1     14.0      1.50     21.10     99.00     99.00
 7 11   6  17    15.0 1     29.0      1.50     20.50     99.00     99.00
 7 11   6  18    15.0 1     36.0      1.00     19.30     99.00     99.00
 7 11   6  19    15.0 1      0.0      0.00     17.90     99.00     99.00
 7 11   6  20    15.0 1      0.0      0.00     16.60     99.00     99.00
 7 11   6  21    15.0 1    300.0      0.50     15.80     99.00     99.00
 7 11   6  22    15.0 1    335.0      0.50     15.10     99.00     99.00
 7 11   6  23    15.0 1    351.0      0.50     14.40     99.00     99.00
 7 11   6  24    15.0 1     13.0      0.50     13.90     99.00     99.00
 7 11   7   1    15.0 1     30.0      0.50     13.40     99.00     99.00
 7 11   7   2    15.0 1     17.0      0.50     13.00     99.00     99.00
 7 11   7   3    15.0 1    350.0      0.50     12.60     99.00     99.00
 7 11   7   4    15.0 1    330.0      1.00     12.30     99.00     99.00
 7 11   7   5    15.0 1    299.0      1.00     12.10     99.00     99.00
 7 11   7   6    15.0 1    291.0      1.00     11.90     99.00     99.00
 7 11   7   7    15.0 1    289.0      0.50     11.60     99.00     99.00
 7 11   7   8    15.0 1    287.0      0.50     11.80     99.00     99.00
 7 11   7   9    15.0 1    315.0      2.10     14.10     99.00     99.00
 7 11   7  10    15.0 1    299.0      2.10     16.00     99.00     99.00
 7 11   7  11    15.0 1    306.0      1.50     18.10     99.00     99.00
 7 11   7  12    15.0 1    334.0      1.50     19.80     99.00     99.00
 7 11   7  13    15.0 1    330.0      1.50     21.30     99.00     99.00
 7 11   7  14    15.0 1    339.0      2.10     22.40     99.00     99.00
 7 11   7  15    15.0 1    360.0      2.10     22.80     99.00     99.00
 7 11   7  16    15.0 1     13.0      2.10     22.60     99.00     99.00
 7 11   7  17    15.0 1     32.0      2.10     21.90     99.00     99.00
 7 11   7  18    15.0 1     35.0      1.00     20.80     99.00     99.00
 7 11   7  19    15.0 1    254.0      0.50     19.40     99.00     99.00
 7 11   7  20    15.0 1    251.0      1.50     18.30     99.00     99.00
 7 11   7  21    15.0 1    267.0      2.60     17.80     99.00     99.00
 7 11   7  22    15.0 1    287.0      2.60     17.10     99.00     99.00
 7 11   7  23    15.0 1    317.0      2.10     16.30     99.00     99.00
 7 11   7  24    15.0 1    350.0      1.00     15.60     99.00     99.00
 7 11   8   1    15.0 1     36.0      0.50     15.00     99.00     99.00
 7 11   8   2    15.0 1     39.0      0.50     14.80     99.00     99.00
 7 11   8   3    15.0 1      0.0      0.00     14.40     99.00     99.00
 7 11   8   4    15.0 1    198.0      0.50     13.80     99.00     99.00
 7 11   8   5    15.0 1    199.0      1.00     13.00     99.00     99.00
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 7 11   8   6    15.0 1   202.0     0.50    12.40    99.00    99.00
 7 11   8   7    15.0 1     0.0     0.00    11.90    99.00    99.00
 7 11   8   8    15.0 1     0.0     0.00    11.60    99.00    99.00
 7 11   8   9    15.0 1   328.0     0.50    13.60    99.00    99.00
 7 11   8  10    15.0 1   324.0     1.00    15.10    99.00    99.00
 7 11   8  11    15.0 1   307.0     0.50    16.50    99.00    99.00
 7 11   8  12    15.0 1   298.0     1.00    17.90    99.00    99.00
 7 11   8  13    15.0 1   309.0     1.00    18.60    99.00    99.00
 7 11   8  14    15.0 1   307.0     1.00    19.10    99.00    99.00
 7 11   8  15    15.0 1   333.0     1.00    19.30    99.00    99.00
 7 11   8  16    15.0 1   348.0     0.50    19.10    99.00    99.00
 7 11   8  17    15.0 1     0.0     0.00    18.50    99.00    99.00
 7 11   8  18    15.0 1     0.0     0.00    17.60    99.00    99.00
 7 11   8  19    15.0 1     0.0     0.00    16.90    99.00    99.00
 7 11   8  20    15.0 1     0.0     0.00    16.50    99.00    99.00
 7 11   8  21    15.0 1   305.0     0.50    16.30    99.00    99.00
 7 11   8  22    15.0 1   325.0     1.00    15.90    99.00    99.00
 7 11   8  23    15.0 1   333.0     2.10    15.50    99.00    99.00
 7 11   8  24    15.0 1   319.0     2.60    15.00    99.00    99.00
 7 11   9   1    15.0 1   320.0     2.60    14.60    99.00    99.00
 7 11   9   2    15.0 1   332.0     2.10    14.10    99.00    99.00
 7 11   9   3    15.0 1   354.0     1.50    13.90    99.00    99.00
 7 11   9   4    15.0 1   355.0     1.00    13.60    99.00    99.00
 7 11   9   5    15.0 1   321.0     1.00    13.40    99.00    99.00
 7 11   9   6    15.0 1   295.0     1.50    13.00    99.00    99.00
 7 11   9   7    15.0 1   276.0     2.10    12.30    99.00    99.00
 7 11   9   8    15.0 1   281.0     3.10    11.60    99.00    99.00
 7 11   9   9    15.0 1   294.0     3.10    12.50    99.00    99.00
 7 11   9  10    15.0 1   292.0     1.00    14.10    99.00    99.00
 7 11   9  11    15.0 1     0.0     0.00    15.40    99.00    99.00
 7 11   9  12    15.0 1     0.0     0.00    16.50    99.00    99.00
 7 11   9  13    15.0 1     0.0     0.00    17.50    99.00    99.00
 7 11   9  14    15.0 1   332.0     0.50    18.30    99.00    99.00
 7 11   9  15    15.0 1   332.0     1.50    18.60    99.00    99.00
 7 11   9  16    15.0 1   340.0     1.50    18.60    99.00    99.00
 7 11   9  17    15.0 1   356.0     1.50    18.10    99.00    99.00
 7 11   9  18    15.0 1    11.0     1.50    17.10    99.00    99.00
 7 11   9  19    15.0 1   311.0     0.50    16.10    99.00    99.00
 7 11   9  20    15.0 1   260.0     2.60    14.80    99.00    99.00
 7 11   9  21    15.0 1   268.0     3.10    13.40    99.00    99.00
 7 11   9  22    15.0 1   280.0     3.60    12.30    99.00    99.00
 7 11   9  23    15.0 1   287.0     3.60    11.50    99.00    99.00
 7 11   9  24    15.0 1   300.0     3.60    10.90    99.00    99.00
 7 11  10   1    15.0 1   302.0     3.10    10.50    99.00    99.00
 7 11  10   2    15.0 1   295.0     2.60    10.10    99.00    99.00
 7 11  10   3    15.0 1   288.0     1.50     9.60    99.00    99.00
 7 11  10   4    15.0 1   308.0     1.50     9.60    99.00    99.00
 7 11  10   5    15.0 1   304.0     1.00     9.90    99.00    99.00
 7 11  10   6    15.0 1   296.0     1.00    10.30    99.00    99.00
 7 11  10   7    15.0 1   313.0     1.00    10.50    99.00    99.00
 7 11  10   8    15.0 1   316.0     1.00    10.60    99.00    99.00
 7 11  10   9    15.0 1   333.0     1.00    10.60    99.00    99.00
 7 11  10  10    15.0 1   334.0     0.50    10.90    99.00    99.00
 7 11  10  11    15.0 1     0.0     0.00    11.50    99.00    99.00
 7 11  10  12    15.0 1     0.0     0.00    13.10    99.00    99.00
 7 11  10  13    15.0 1     0.0     0.00    14.60    99.00    99.00
 7 11  10  14    15.0 1     0.0     0.00    15.60    99.00    99.00
 7 11  10  15    15.0 1   156.0     0.50    16.10    99.00    99.00
 7 11  10  16    15.0 1   140.0     1.50    16.30    99.00    99.00
 7 11  10  17    15.0 1   135.0     2.10    15.80    99.00    99.00
 7 11  10  18    15.0 1   151.0     3.10    14.60    99.00    99.00
 7 11  10  19    15.0 1   164.0     3.60    13.60    99.00    99.00
 7 11  10  20    15.0 1   158.0     3.60    13.10    99.00    99.00
 7 11  10  21    15.0 1   156.0     3.10    12.80    99.00    99.00
 7 11  10  22    15.0 1   146.0     3.60    12.60    99.00    99.00
 7 11  10  23    15.0 1   144.0     3.60    12.60    99.00    99.00
 7 11  10  24    15.0 1   138.0     3.10    12.60    99.00    99.00
 7 11  11   1    15.0 1   141.0     2.10    12.60    99.00    99.00
 7 11  11   2    15.0 1   142.0     1.50    12.60    99.00    99.00
 7 11  11   3    15.0 1   151.0     1.00    12.60    99.00    99.00
 7 11  11   4    15.0 1   171.0     1.00    12.60    99.00    99.00
 7 11  11   5    15.0 1   188.0     1.00    12.60    99.00    99.00
 7 11  11   6    15.0 1   181.0     0.50    12.50    99.00    99.00
 7 11  11   7    15.0 1   177.0     0.50    12.40    99.00    99.00
 7 11  11   8    15.0 1     0.0     0.00    12.10    99.00    99.00
 7 11  11   9    15.0 1     0.0     0.00    12.40    99.00    99.00
 7 11  11  10    15.0 1     0.0     0.00    13.10    99.00    99.00
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 7 11 11 11    15.0 1     0.0     0.00    14.10    99.00    99.00
 7 11 11 12    15.0 1   290.0     0.50    15.10    99.00    99.00
 7 11 11 13    15.0 1   286.0     1.50    15.60    99.00    99.00
 7 11 11 14    15.0 1   297.0     3.10    15.60    99.00    99.00
 7 11 11 15    15.0 1   304.0     3.10    15.60    99.00    99.00
 7 11 11 16    15.0 1   296.0     2.60    17.30    99.00    99.00
 7 11 11 17    15.0 1   278.0     1.50    16.90    99.00    99.00
 7 11 11 18    15.0 1   251.0     1.50    16.50    99.00    99.00
 7 11 11 19    15.0 1   226.0     1.50    16.10    99.00    99.00
 7 11 11 20    15.0 1   266.0     1.50    15.60    99.00    99.00
 7 11 11 21    15.0 1   268.0     2.10    14.90    99.00    99.00
 7 11 11 22    15.0 1   261.0     2.60    14.10    99.00    99.00
 7 11 11 23    15.0 1   226.0     2.10    13.30    99.00    99.00
 7 11 11 24    15.0 1   216.0     2.60    12.60    99.00    99.00
 7 11 12  1    15.0 1   237.0     3.10    12.10    99.00    99.00
 7 11 12  2    15.0 1   250.0     3.10    11.50    99.00    99.00
 7 11 12  3    15.0 1   267.0     3.10    10.90    99.00    99.00
 7 11 12  4    15.0 1   274.0     3.10    10.30    99.00    99.00
 7 11 12  5    15.0 1   272.0     3.10     9.90    99.00    99.00
 7 11 12  6    15.0 1   267.0     3.60     9.50    99.00    99.00
 7 11 12  7    15.0 1   266.0     3.60     9.10    99.00    99.00
 7 11 12  8    15.0 1   269.0     3.10     9.30    99.00    99.00
 7 11 12  9    15.0 1   289.0     2.60    10.90    99.00    99.00
 7 11 12 10    15.0 1   284.0     1.50    12.50    99.00    99.00
 7 11 12 11    15.0 1   274.0     1.50    14.50    99.00    99.00
 7 11 12 12    15.0 1   276.0     1.00    15.80    99.00    99.00
 7 11 12 13    15.0 1   278.0     0.50    16.80    99.00    99.00
 7 11 12 14    15.0 1   285.0     0.50    17.60    99.00    99.00
 7 11 12 15    15.0 1   281.0     0.50    18.10    99.00    99.00
 7 11 12 16    15.0 1   302.0     1.00    18.10    99.00    99.00
 7 11 12 17    15.0 1   321.0     1.00    17.60    99.00    99.00
 7 11 12 18    15.0 1   328.0     0.50    16.60    99.00    99.00
 7 11 12 19    15.0 1     0.0     0.00    15.60    99.00    99.00
 7 11 12 20    15.0 1     0.0     0.00    14.60    99.00    99.00
 7 11 12 21    15.0 1     0.0     0.00    13.60    99.00    99.00
 7 11 12 22    15.0 1     0.0     0.00    13.00    99.00    99.00
 7 11 12 23    15.0 1     0.0     0.00    12.40    99.00    99.00
 7 11 12 24    15.0 1     0.0     0.00    12.00    99.00    99.00
 7 11 13  1    15.0 1     0.0     0.00    11.80    99.00    99.00
 7 11 13  2    15.0 1     0.0     0.00    11.80    99.00    99.00
 7 11 13  3    15.0 1   275.0     1.00    12.00    99.00    99.00
 7 11 13  4    15.0 1   251.0     1.00    12.10    99.00    99.00
 7 11 13  5    15.0 1   218.0     1.00    12.50    99.00    99.00
 7 11 13  6    15.0 1   224.0     0.50    12.60    99.00    99.00
 7 11 13  7    15.0 1   243.0     0.50    12.40    99.00    99.00
 7 11 13  8    15.0 1   264.0     0.50    12.10    99.00    99.00
 7 11 13  9    15.0 1   313.0     1.00    14.10    99.00    99.00
 7 11 13 10    15.0 1   319.0     1.50    15.50    99.00    99.00
 7 11 13 11    15.0 1   323.0     1.00    17.00    99.00    99.00
 7 11 13 12    15.0 1   300.0     0.50    18.00    99.00    99.00
 7 11 13 13    15.0 1   293.0     0.50    18.90    99.00    99.00
 7 11 13 14    15.0 1   291.0     0.50    19.60    99.00    99.00
 7 11 13 15    15.0 1   305.0     1.00    20.00    99.00    99.00
 7 11 13 16    15.0 1   324.0     1.50    20.00    99.00    99.00
 7 11 13 17    15.0 1   340.0     1.50    19.50    99.00    99.00
 7 11 13 18    15.0 1     7.0     0.50    18.50    99.00    99.00
 7 11 13 19    15.0 1     0.0     0.00    17.30    99.00    99.00
 7 11 13 20    15.0 1   157.0     0.50    16.30    99.00    99.00
 7 11 13 21    15.0 1   159.0     1.00    15.50    99.00    99.00
 7 11 13 22    15.0 1   162.0     1.00    14.80    99.00    99.00
 7 11 13 23    15.0 1   164.0     0.50    14.10    99.00    99.00
 7 11 13 24    15.0 1   158.0     0.50    13.60    99.00    99.00
 7 11 14  1    15.0 1     0.0     0.00    13.30    99.00    99.00
 7 11 14  2    15.0 1   282.0     0.50    13.10    99.00    99.00
 7 11 14  3    15.0 1   257.0     0.50    12.80    99.00    99.00
 7 11 14  4    15.0 1   263.0     1.00    12.60    99.00    99.00
 7 11 14  5    15.0 1   270.0     1.00    12.50    99.00    99.00
 7 11 14  6    15.0 1   268.0     1.50    12.10    99.00    99.00
 7 11 14  7    15.0 1   262.0     1.50    11.90    99.00    99.00
 7 11 14  8    15.0 1   255.0     2.10    11.90    99.00    99.00
 7 11 14  9    15.0 1   287.0     1.50    13.60    99.00    99.00
 7 11 14 10    15.0 1   282.0     1.00    15.30    99.00    99.00
 7 11 14 11    15.0 1   272.0     1.00    17.10    99.00    99.00
 7 11 14 12    15.0 1   269.0     0.50    18.90    99.00    99.00
 7 11 14 13    15.0 1   304.0     0.50    20.10    99.00    99.00
 7 11 14 14    15.0 1   330.0     1.00    21.00    99.00    99.00
 7 11 14 15    15.0 1   358.0     1.50    21.40    99.00    99.00
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 7 11 14 16     15.0 1     13.0      1.50     21.40     99.00     99.00
 7 11 14 17     15.0 1     22.0      2.10     20.60     99.00     99.00
 7 11 14 18     15.0 1     21.0      1.50     19.50     99.00     99.00
 7 11 14 19     15.0 1    344.0      0.50     18.30     99.00     99.00
 7 11 14 20     15.0 1      0.0      0.00     17.10     99.00     99.00
 7 11 14 21     15.0 1      0.0      0.00     16.30     99.00     99.00
 7 11 14 22     15.0 1     31.0      0.50     15.60     99.00     99.00
 7 11 14 23     15.0 1     11.0      1.00     15.10     99.00     99.00
 7 11 14 24     15.0 1    348.0      2.10     14.80     99.00     99.00
 7 11 15  1     15.0 1    334.0      2.10     14.60     99.00     99.00
 7 11 15  2     15.0 1    328.0      2.10     14.60     99.00     99.00
 7 11 15  3     15.0 1    322.0      1.50     14.60     99.00     99.00
 7 11 15  4     15.0 1    281.0      1.00     14.50     99.00     99.00
 7 11 15  5     15.0 1    263.0      0.50     14.10     99.00     99.00
 7 11 15  6     15.0 1    277.0      0.50     14.00     99.00     99.00
 7 11 15  7     15.0 1    295.0      0.50     13.80     99.00     99.00
 7 11 15  8     15.0 1      0.0      0.00     13.60     99.00     99.00
 7 11 15  9     15.0 1    276.0      0.50     13.80     99.00     99.00
 7 11 15 10     15.0 1    304.0      1.00     16.10     99.00     99.00
 7 11 15 11     15.0 1    298.0      0.50     18.10     99.00     99.00
 7 11 15 12     15.0 1      0.0      0.00     19.90     99.00     99.00
 7 11 15 13     15.0 1    297.0      1.00     21.30     99.00     99.00
 7 11 15 14     15.0 1    324.0      2.10     21.40     99.00     99.00
 7 11 15 15     15.0 1    329.0      3.10     20.60     99.00     99.00
 7 11 15 16     15.0 1    336.0      2.10     20.10     99.00     99.00
 7 11 15 17     15.0 1    348.0      1.50     19.50     99.00     99.00
 7 11 15 18     15.0 1      9.0      0.50     18.40     99.00     99.00
 7 11 15 19     15.0 1      0.0      0.00     17.10     99.00     99.00
 7 11 15 20     15.0 1      0.0      0.00     16.10     99.00     99.00
 7 11 15 21     15.0 1      0.0      0.00     15.30     99.00     99.00
 7 11 15 22     15.0 1      0.0      0.00     14.60     99.00     99.00
 7 11 15 23     15.0 1    286.0      0.50     14.10     99.00     99.00
 7 11 15 24     15.0 1    303.0      1.50     13.60     99.00     99.00
 7 11 16  1     15.0 1    303.0      2.10     13.40     99.00     99.00
 7 11 16  2     15.0 1    298.0      2.10     13.00     99.00     99.00
 7 11 16  3     15.0 1    297.0      1.50     12.60     99.00     99.00
 7 11 16  4     15.0 1    299.0      1.00     12.40     99.00     99.00
 7 11 16  5     15.0 1    287.0      0.50     12.10     99.00     99.00
 7 11 16  6     15.0 1    296.0      0.50     11.80     99.00     99.00
 7 11 16  7     15.0 1    319.0      0.50     11.40     99.00     99.00
 7 11 16  8     15.0 1      0.0      0.00     11.10     99.00     99.00
 7 11 16  9     15.0 1    340.0      0.50     11.80     99.00     99.00
 7 11 16 10     15.0 1    354.0      1.00     13.10     99.00     99.00
 7 11 16 11     15.0 1      6.0      0.50     14.90     99.00     99.00
 7 11 16 12     15.0 1    326.0      0.50     16.60     99.00     99.00
 7 11 16 13     15.0 1    324.0      1.00     17.90     99.00     99.00
 7 11 16 14     15.0 1    329.0      1.50     18.60     99.00     99.00
 7 11 16 15     15.0 1    336.0      2.60     19.00     99.00     99.00
 7 11 16 16     15.0 1    326.0      2.60     20.10     99.00     99.00
 7 11 16 17     15.0 1    338.0      3.10     19.10     99.00     99.00
 7 11 16 18     15.0 1    342.0      3.10     18.30     99.00     99.00
 7 11 16 19     15.0 1    326.0      2.60     17.50     99.00     99.00
 7 11 16 20     15.0 1    329.0      2.60     16.80     99.00     99.00
 7 11 16 21     15.0 1    335.0      2.60     16.40     99.00     99.00
 7 11 16 22     15.0 1    332.0      2.10     16.00     99.00     99.00
 7 11 16 23     15.0 1    351.0      1.50     15.50     99.00     99.00
 7 11 16 24     15.0 1     12.0      1.50     14.80     99.00     99.00
 7 11 17  1     15.0 1     32.0      1.00     14.30     99.00     99.00
 7 11 17  2     15.0 1     45.0      0.50     13.80     99.00     99.00
 7 11 17  3     15.0 1     33.0      0.50     13.30     99.00     99.00
 7 11 17  4     15.0 1      0.0      0.00     12.30     99.00     99.00
 7 11 17  5     15.0 1      0.0      0.00     11.10     99.00     99.00
 7 11 17  6     15.0 1     83.0      0.50     10.50     99.00     99.00
 7 11 17  7     15.0 1     86.0      0.50     10.00     99.00     99.00
 7 11 17  8     15.0 1     86.0      0.50      9.60     99.00     99.00
 7 11 17  9     15.0 1      0.0      0.00      9.80     99.00     99.00
 7 11 17 10     15.0 1      0.0      0.00     11.60     99.00     99.00
 7 11 17 11     15.0 1      0.0      0.00     14.60     99.00     99.00
 7 11 17 12     15.0 1      0.0      0.00     16.10     99.00     99.00
 7 11 17 13     15.0 1      0.0      0.00     17.40     99.00     99.00
 7 11 17 14     15.0 1    316.0      0.50     18.30     99.00     99.00
 7 11 17 15     15.0 1    322.0      0.50     18.80     99.00     99.00
 7 11 17 16     15.0 1    340.0      0.50     18.90     99.00     99.00
 7 11 17 17     15.0 1     18.0      0.50     18.40     99.00     99.00
 7 11 17 18     15.0 1    104.0      0.50     17.30     99.00     99.00
 7 11 17 19     15.0 1    138.0      1.50     16.10     99.00     99.00
 7 11 17 20     15.0 1    137.0      2.10     15.30     99.00     99.00
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 7 11 17 21     15.0 1    143.0      2.10     14.60     99.00     99.00
 7 11 17 22     15.0 1    130.0      1.50     14.10     99.00     99.00
 7 11 17 23     15.0 1    119.0      1.50     13.60     99.00     99.00
 7 11 17 24     15.0 1    113.0      1.00     13.10     99.00     99.00
 7 11 18  1     15.0 1    121.0      1.00     12.60     99.00     99.00
 7 11 18  2     15.0 1    115.0      1.00     11.60     99.00     99.00
 7 11 18  3     15.0 1    106.0      1.00     10.80     99.00     99.00
 7 11 18  4     15.0 1    108.0      1.00     10.30     99.00     99.00
 7 11 18  5     15.0 1     96.0      0.50      9.80     99.00     99.00
 7 11 18  6     15.0 1      0.0      0.00      9.30     99.00     99.00
 7 11 18  7     15.0 1      0.0      0.00      8.90     99.00     99.00
 7 11 18  8     15.0 1      0.0      0.00      8.60     99.00     99.00
 7 11 18  9     15.0 1      0.0      0.00      9.30     99.00     99.00
 7 11 18 10     15.0 1      0.0      0.00     11.60     99.00     99.00
 7 11 18 11     15.0 1      0.0      0.00     13.60     99.00     99.00
 7 11 18 12     15.0 1    330.0      1.00     14.10     99.00     99.00
 7 11 18 13     15.0 1    328.0      1.50     14.40     99.00     99.00
 7 11 18 14     15.0 1    348.0      1.50     14.60     99.00     99.00
 7 11 18 15     15.0 1     12.0      1.50     14.60     99.00     99.00
 7 11 18 16     15.0 1     57.0      1.50     14.60     99.00     99.00
 7 11 18 17     15.0 1     77.0      2.10     14.40     99.00     99.00
 7 11 18 18     15.0 1     85.0      1.50     14.10     99.00     99.00
 7 11 18 19     15.0 1     46.0      1.00     14.00     99.00     99.00
 7 11 18 20     15.0 1     22.0      1.00     13.90     99.00     99.00
 7 11 18 21     15.0 1     23.0      1.50     13.80     99.00     99.00
 7 11 18 22     15.0 1     18.0      1.50     13.60     99.00     99.00
 7 11 18 23     15.0 1     33.0      1.00     13.60     99.00     99.00
 7 11 18 24     15.0 1      0.0      0.00     13.50     99.00     99.00
 7 11 19  1     15.0 1      0.0      0.00     13.50     99.00     99.00
 7 11 19  2     15.0 1    167.0      0.50     13.50     99.00     99.00
 7 11 19  3     15.0 1    176.0      0.50     13.40     99.00     99.00
 7 11 19  4     15.0 1      0.0      0.00     13.40     99.00     99.00
 7 11 19  5     15.0 1      0.0      0.00     13.30     99.00     99.00
 7 11 19  6     15.0 1      0.0      0.00     13.10     99.00     99.00
 7 11 19  7     15.0 1    257.0      0.50     13.00     99.00     99.00
 7 11 19  8     15.0 1    249.0      0.50     12.90     99.00     99.00
 7 11 19  9     15.0 1    214.0      0.50     12.40     99.00     99.00
 7 11 19 10     15.0 1    166.0      0.50     12.30     99.00     99.00
 7 11 19 11     15.0 1    165.0      0.50     12.40     99.00     99.00
 7 11 19 12     15.0 1      0.0      0.00     12.60     99.00     99.00
 7 11 19 13     15.0 1      0.0      0.00     13.80     99.00     99.00
 7 11 19 14     15.0 1      0.0      0.00     15.10     99.00     99.00
 7 11 19 15     15.0 1    335.0      1.00     15.90     99.00     99.00
 7 11 19 16     15.0 1    352.0      2.10     15.90     99.00     99.00
 7 11 19 17     15.0 1    346.0      3.10     15.10     99.00     99.00
 7 11 19 18     15.0 1      2.0      3.10     14.00     99.00     99.00
 7 11 19 19     15.0 1    355.0      2.60     13.40     99.00     99.00
 7 11 19 20     15.0 1    324.0      1.50     13.40     99.00     99.00
 7 11 19 21     15.0 1    266.0      1.50     13.50     99.00     99.00
 7 11 19 22     15.0 1    244.0      2.10     13.30     99.00     99.00
 7 11 19 23     15.0 1    232.0      1.50     13.40     99.00     99.00
 7 11 19 24     15.0 1    208.0      1.50     13.50     99.00     99.00
 7 11 20  1     15.0 1    186.0      1.00     13.60     99.00     99.00
 7 11 20  2     15.0 1    159.0      0.50     13.60     99.00     99.00
 7 11 20  3     15.0 1    302.0      1.00     13.80     99.00     99.00
 7 11 20  4     15.0 1    312.0      3.10     13.60     99.00     99.00
 7 11 20  5     15.0 1    319.0      3.60     13.40     99.00     99.00
 7 11 20  6     15.0 1    326.0      3.60     13.00     99.00     99.00
 7 11 20  7     15.0 1    329.0      4.10     12.60     99.00     99.00
 7 11 20  8     15.0 1    338.0      4.10     12.00     99.00     99.00
 7 11 20  9     15.0 1    340.0      4.10     11.60     99.00     99.00
 7 11 20 10     15.0 1    345.0      3.60     11.60     99.00     99.00
 7 11 20 11     15.0 1    342.0      2.60     12.10     99.00     99.00
 7 11 20 12     15.0 1    352.0      1.50     12.90     99.00     99.00
 7 11 20 13     15.0 1    345.0      0.50     13.50     99.00     99.00
 7 11 20 14     15.0 1    276.0      0.50     14.30     99.00     99.00
 7 11 20 15     15.0 1    304.0      1.00     15.00     99.00     99.00
 7 11 20 16     15.0 1    315.0      1.50     15.10     99.00     99.00
 7 11 20 17     15.0 1    323.0      0.50     14.60     99.00     99.00
 7 11 20 18     15.0 1    327.0      0.50     13.60     99.00     99.00
 7 11 20 19     15.0 1      0.0      0.00     12.60     99.00     99.00
 7 11 20 20     15.0 1    202.0      0.50     11.60     99.00     99.00
 7 11 20 21     15.0 1    169.0      1.00     10.60     99.00     99.00
 7 11 20 22     15.0 1    162.0      1.50      9.90     99.00     99.00
 7 11 20 23     15.0 1    184.0      0.50      9.30     99.00     99.00
 7 11 20 24     15.0 1      0.0      0.00      8.90     99.00     99.00
 7 11 21  1     15.0 1      0.0      0.00      7.90     99.00     99.00
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 7 11 21  2    15.0 1   323.0     0.50     7.10    99.00    99.00
 7 11 21  3    15.0 1   320.0     0.50     6.60    99.00    99.00
 7 11 21  4    15.0 1     0.0     0.00     6.10    99.00    99.00
 7 11 21  5    15.0 1     0.0     0.00     5.60    99.00    99.00
 7 11 21  6    15.0 1     0.0     0.00     5.50    99.00    99.00
 7 11 21  7    15.0 1     0.0     0.00     5.10    99.00    99.00
 7 11 21  8    15.0 1     0.0     0.00     4.80    99.00    99.00
 7 11 21  9    15.0 1   314.0     1.00     7.10    99.00    99.00
 7 11 21 10    15.0 1   308.0     1.50     9.60    99.00    99.00
 7 11 21 11    15.0 1   328.0     1.00    11.60    99.00    99.00
 7 11 21 12    15.0 1   316.0     0.50    13.50    99.00    99.00
 7 11 21 13    15.0 1   334.0     1.00    14.90    99.00    99.00
 7 11 21 14    15.0 1   349.0     1.50    15.60    99.00    99.00
 7 11 21 15    15.0 1    15.0     2.10    16.00    99.00    99.00
 7 11 21 16    15.0 1    22.0     2.10    16.00    99.00    99.00
 7 11 21 17    15.0 1    32.0     2.60    15.10    99.00    99.00
 7 11 21 18    15.0 1    32.0     2.10    14.10    99.00    99.00
 7 11 21 19    15.0 1     8.0     1.00    13.00    99.00    99.00
 7 11 21 20    15.0 1   351.0     0.50    11.80    99.00    99.00
 7 11 21 21    15.0 1     0.0     0.00    10.60    99.00    99.00
 7 11 21 22    15.0 1     0.0     0.00     9.80    99.00    99.00
 7 11 21 23    15.0 1     0.0     0.00     9.00    99.00    99.00
 7 11 21 24    15.0 1     0.0     0.00     8.40    99.00    99.00
 7 11 22  1    15.0 1   298.0     0.50     7.90    99.00    99.00
 7 11 22  2    15.0 1   315.0     1.00     7.60    99.00    99.00
 7 11 22  3    15.0 1   314.0     1.50     7.30    99.00    99.00
 7 11 22  4    15.0 1   308.0     2.10     7.00    99.00    99.00
 7 11 22  5    15.0 1   311.0     2.10     6.60    99.00    99.00
 7 11 22  6    15.0 1   310.0     2.10     6.10    99.00    99.00
 7 11 22  7    15.0 1   292.0     1.50     5.80    99.00    99.00
 7 11 22  8    15.0 1   274.0     1.50     5.60    99.00    99.00
 7 11 22  9    15.0 1   304.0     1.50     7.30    99.00    99.00
 7 11 22 10    15.0 1   293.0     1.00     8.90    99.00    99.00
 7 11 22 11    15.0 1   288.0     0.50    10.60    99.00    99.00
 7 11 22 12    15.0 1   291.0     0.50    12.60    99.00    99.00
 7 11 22 13    15.0 1   302.0     1.00    14.10    99.00    99.00
 7 11 22 14    15.0 1   310.0     1.50    14.90    99.00    99.00
 7 11 22 15    15.0 1   321.0     2.10    15.30    99.00    99.00
 7 11 22 16    15.0 1   341.0     2.10    15.10    99.00    99.00
 7 11 22 17    15.0 1   354.0     1.50    14.30    99.00    99.00
 7 11 22 18    15.0 1    13.0     1.00    13.10    99.00    99.00
 7 11 22 19    15.0 1     0.0     0.00    11.80    99.00    99.00
 7 11 22 20    15.0 1     0.0     0.00    10.50    99.00    99.00
 7 11 22 21    15.0 1     0.0     0.00     9.40    99.00    99.00
 7 11 22 22    15.0 1   285.0     0.50     8.40    99.00    99.00
 7 11 22 23    15.0 1   293.0     1.00     7.80    99.00    99.00
 7 11 22 24    15.0 1   304.0     2.10     7.40    99.00    99.00
 7 11 23  1    15.0 1   300.0     3.10     6.90    99.00    99.00
 7 11 23  2    15.0 1   301.0     3.60     6.10    99.00    99.00
 7 11 23  3    15.0 1   295.0     3.60     5.50    99.00    99.00
 7 11 23  4    15.0 1   281.0     3.60     4.90    99.00    99.00
 7 11 23  5    15.0 1   280.0     3.10     4.30    99.00    99.00
 7 11 23  6    15.0 1   272.0     3.10     3.80    99.00    99.00
 7 11 23  7    15.0 1   261.0     2.60     3.40    99.00    99.00
 7 11 23  8    15.0 1   275.0     2.60     3.00    99.00    99.00
 7 11 23  9    15.0 1   321.0     2.60     4.80    99.00    99.00
 7 11 23 10    15.0 1   344.0     0.50     6.40    99.00    99.00
 7 11 23 11    15.0 1   276.0     0.50     8.10    99.00    99.00
 7 11 23 12    15.0 1   273.0     0.50     9.40    99.00    99.00
 7 11 23 13    15.0 1   284.0     1.00    10.60    99.00    99.00
 7 11 23 14    15.0 1   302.0     1.00    11.60    99.00    99.00
 7 11 23 15    15.0 1   292.0     1.00    12.00    99.00    99.00
 7 11 23 16    15.0 1   183.0     0.50    12.10    99.00    99.00
 7 11 23 17    15.0 1   178.0     1.00    11.40    99.00    99.00
 7 11 23 18    15.0 1   179.0     2.10    10.30    99.00    99.00
 7 11 23 19    15.0 1   205.0     2.10     9.40    99.00    99.00
 7 11 23 20    15.0 1   227.0     1.50     8.60    99.00    99.00
 7 11 23 21    15.0 1   253.0     1.50     8.00    99.00    99.00
 7 11 23 22    15.0 1   239.0     1.00     7.10    99.00    99.00
 7 11 23 23    15.0 1   226.0     0.50     6.40    99.00    99.00
 7 11 23 24    15.0 1   252.0     0.50     5.60    99.00    99.00
 7 11 24  1    15.0 1   289.0     0.50     5.10    99.00    99.00
 7 11 24  2    15.0 1   324.0     1.00     4.80    99.00    99.00
 7 11 24  3    15.0 1   316.0     1.00     4.50    99.00    99.00
 7 11 24  4    15.0 1   287.0     1.00     4.30    99.00    99.00
 7 11 24  5    15.0 1   251.0     1.00     4.10    99.00    99.00
 7 11 24  6    15.0 1   228.0     1.00     3.90    99.00    99.00
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 7 11 24  7    15.0 1   246.0     1.00     3.80    99.00    99.00
 7 11 24  8    15.0 1   307.0     1.00     3.60    99.00    99.00
 7 11 24  9    15.0 1    10.0     1.50     4.10    99.00    99.00
 7 11 24 10    15.0 1    11.0     1.50     6.80    99.00    99.00
 7 11 24 11    15.0 1    11.0     2.10     8.90    99.00    99.00
 7 11 24 12    15.0 1     0.0     0.00    10.50    99.00    99.00
 7 11 24 13    15.0 1     0.0     0.00    11.60    99.00    99.00
 7 11 24 14    15.0 1     6.0     1.50    12.50    99.00    99.00
 7 11 24 15    15.0 1    17.0     1.50    12.80    99.00    99.00
 7 11 24 16    15.0 1    28.0     1.00    12.40    99.00    99.00
 7 11 24 17    15.0 1    32.0     1.00    11.40    99.00    99.00
 7 11 24 18    15.0 1     0.0     0.00    10.50    99.00    99.00
 7 11 24 19    15.0 1     0.0     0.00     9.60    99.00    99.00
 7 11 24 20    15.0 1     0.0     0.00     8.90    99.00    99.00
 7 11 24 21    15.0 1    16.0     1.00     8.50    99.00    99.00
 7 11 24 22    15.0 1    45.0     1.50     8.00    99.00    99.00
 7 11 24 23    15.0 1    55.0     1.00     7.60    99.00    99.00
 7 11 24 24    15.0 1    11.0     1.00     7.40    99.00    99.00
 7 11 25  1    15.0 1   345.0     1.00     7.00    99.00    99.00
 7 11 25  2    15.0 1   309.0     0.50     6.60    99.00    99.00
 7 11 25  3    15.0 1   310.0     0.50     6.50    99.00    99.00
 7 11 25  4    15.0 1   311.0     1.00     6.40    99.00    99.00
 7 11 25  5    15.0 1   316.0     1.00     6.10    99.00    99.00
 7 11 25  6    15.0 1   325.0     1.00     6.00    99.00    99.00
 7 11 25  7    15.0 1   301.0     0.50     5.90    99.00    99.00
 7 11 25  8    15.0 1   299.0     0.50     5.80    99.00    99.00
 7 11 25  9    15.0 1   317.0     0.50     6.00    99.00    99.00
 7 11 25 10    15.0 1   330.0     0.50     7.10    99.00    99.00
 7 11 25 11    15.0 1   331.0     1.00     8.90    99.00    99.00
 7 11 25 12    15.0 1   342.0     1.00     9.60    99.00    99.00
 7 11 25 13    15.0 1   344.0     1.00    10.50    99.00    99.00
 7 11 25 14    15.0 1   329.0     1.00    11.00    99.00    99.00
 7 11 25 15    15.0 1   323.0     1.00    11.10    99.00    99.00
 7 11 25 16    15.0 1   355.0     0.50    10.90    99.00    99.00
 7 11 25 17    15.0 1    18.0     0.50    10.40    99.00    99.00
 7 11 25 18    15.0 1     0.0     0.00    10.00    99.00    99.00
 7 11 25 19    15.0 1     0.0     0.00     9.50    99.00    99.00
 7 11 25 20    15.0 1   207.0     0.50     9.10    99.00    99.00
 7 11 25 21    15.0 1     0.0     0.00     8.80    99.00    99.00
 7 11 25 22    15.0 1    64.0     0.50     8.40    99.00    99.00
 7 11 25 23    15.0 1    67.0     1.00     8.00    99.00    99.00
 7 11 25 24    15.0 1    71.0     0.50     7.50    99.00    99.00
 7 11 26  1    15.0 1     0.0     0.00     6.80    99.00    99.00
 7 11 26  2    15.0 1     0.0     0.00     6.10    99.00    99.00
 7 11 26  3    15.0 1     0.0     0.00     5.60    99.00    99.00
 7 11 26  4    15.0 1   352.0     1.00     5.10    99.00    99.00
 7 11 26  5    15.0 1   307.0     1.50     4.80    99.00    99.00
 7 11 26  6    15.0 1   296.0     2.10     4.60    99.00    99.00
 7 11 26  7    15.0 1   303.0     1.50     4.40    99.00    99.00
 7 11 26  8    15.0 1   298.0     1.00     4.30    99.00    99.00
 7 11 26  9    15.0 1   323.0     1.00     6.10    99.00    99.00
 7 11 26 10    15.0 1   315.0     1.00     8.30    99.00    99.00
 7 11 26 11    15.0 1   301.0     0.50    10.10    99.00    99.00
 7 11 26 12    15.0 1     0.0     0.00    12.10    99.00    99.00
 7 11 26 13    15.0 1   308.0     1.00    13.60    99.00    99.00
 7 11 26 14    15.0 1   322.0     1.00    14.50    99.00    99.00
 7 11 26 15    15.0 1   345.0     1.50    14.80    99.00    99.00
 7 11 26 16    15.0 1   345.0     1.50    16.10    99.00    99.00
 7 11 26 17    15.0 1   344.0     0.50    15.30    99.00    99.00
 7 11 26 18    15.0 1     0.0     0.00    14.00    99.00    99.00
 7 11 26 19    15.0 1     0.0     0.00    12.60    99.00    99.00
 7 11 26 20    15.0 1   183.0     0.50    11.50    99.00    99.00
 7 11 26 21    15.0 1   161.0     0.50    10.60    99.00    99.00
 7 11 26 22    15.0 1    66.0     0.50     9.60    99.00    99.00
 7 11 26 23    15.0 1    56.0     0.50     8.90    99.00    99.00
 7 11 26 24    15.0 1    54.0     0.50     8.30    99.00    99.00
 7 11 27  1    15.0 1     0.0     0.00     7.60    99.00    99.00
 7 11 27  2    15.0 1     0.0     0.00     7.30    99.00    99.00
 7 11 27  3    15.0 1    54.0     0.50     6.90    99.00    99.00
 7 11 27  4    15.0 1     0.0     0.00     6.50    99.00    99.00
 7 11 27  5    15.0 1    69.0     0.50     6.10    99.00    99.00
 7 11 27  6    15.0 1    72.0     0.50     5.60    99.00    99.00
 7 11 27  7    15.0 1    83.0     0.50     5.40    99.00    99.00
 7 11 27  8    15.0 1    92.0     0.50     5.10    99.00    99.00
 7 11 27  9    15.0 1    66.0     0.50     6.30    99.00    99.00
 7 11 27 10    15.0 1     0.0     0.00     9.10    99.00    99.00
 7 11 27 11    15.0 1    35.0     0.50    11.30    99.00    99.00
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7	11	27	12	15.0	1	357.0	1.50	11.90	99.00	99.00
7	11	27	13	15.0	1	338.0	1.50	12.10	99.00	99.00
7	11	27	14	15.0	1	321.0	1.50	13.60	99.00	99.00
7	11	27	15	15.0	1	318.0	2.10	14.50	99.00	99.00
7	11	27	16	15.0	1	334.0	2.10	14.50	99.00	99.00
7	11	27	17	15.0	1	328.0	1.50	13.80	99.00	99.00
7	11	27	18	15.0	1	0.0	0.00	12.90	99.00	99.00
7	11	27	19	15.0	1	155.0	0.50	11.60	99.00	99.00
7	11	27	20	15.0	1	150.0	1.50	10.50	99.00	99.00
7	11	27	21	15.0	1	172.0	2.60	9.60	99.00	99.00
7	11	27	22	15.0	1	205.0	2.10	9.40	99.00	99.00
7	11	27	23	15.0	1	208.0	1.50	8.90	99.00	99.00
7	11	27	24	15.0	1	185.0	1.00	8.50	99.00	99.00
7	11	28	1	15.0	1	174.0	1.00	8.10	99.00	99.00
7	11	28	2	15.0	1	215.0	1.00	7.90	99.00	99.00
7	11	28	3	15.0	1	259.0	1.50	7.80	99.00	99.00
7	11	28	4	15.0	1	267.0	2.60	7.10	99.00	99.00
7	11	28	5	15.0	1	274.0	3.10	6.40	99.00	99.00
7	11	28	6	15.0	1	272.0	3.10	5.80	99.00	99.00
7	11	28	7	15.0	1	267.0	3.10	5.50	99.00	99.00
7	11	28	8	15.0	1	270.0	3.10	5.30	99.00	99.00
7	11	28	9	15.0	1	299.0	2.10	7.10	99.00	99.00
7	11	28	10	15.0	1	291.0	1.50	8.80	99.00	99.00
7	11	28	11	15.0	1	304.0	1.00	10.90	99.00	99.00
7	11	28	12	15.0	1	321.0	0.50	12.80	99.00	99.00
7	11	28	13	15.0	1	339.0	1.00	14.60	99.00	99.00
7	11	28	14	15.0	1	347.0	1.50	15.60	99.00	99.00
7	11	28	15	15.0	1	360.0	3.10	16.00	99.00	99.00
7	11	28	16	15.0	1	9.0	3.10	15.30	99.00	99.00
7	11	28	17	15.0	1	20.0	4.10	14.10	99.00	99.00
7	11	28	18	15.0	1	35.0	3.60	13.10	99.00	99.00
7	11	28	19	15.0	1	44.0	2.60	12.10	99.00	99.00
7	11	28	20	15.0	1	16.0	1.50	11.10	99.00	99.00
7	11	28	21	15.0	1	9.0	1.00	10.40	99.00	99.00
7	11	28	22	15.0	1	359.0	1.00	9.60	99.00	99.00
7	11	28	23	15.0	1	348.0	1.00	9.10	99.00	99.00
7	11	28	24	15.0	1	336.0	1.50	8.60	99.00	99.00
7	11	29	1	15.0	1	320.0	1.50	8.00	99.00	99.00
7	11	29	2	15.0	1	302.0	2.10	7.60	99.00	99.00
7	11	29	3	15.0	1	316.0	1.50	7.30	99.00	99.00
7	11	29	4	15.0	1	336.0	1.00	6.90	99.00	99.00
7	11	29	5	15.0	1	0.0	0.00	6.60	99.00	99.00
7	11	29	6	15.0	1	5.0	1.00	6.80	99.00	99.00
7	11	29	7	15.0	1	10.0	0.50	6.60	99.00	99.00
7	11	29	8	15.0	1	0.0	0.00	6.60	99.00	99.00
7	11	29	9	15.0	1	93.0	0.50	6.80	99.00	99.00
7	11	29	10	15.0	1	0.0	0.00	8.50	99.00	99.00
7	11	29	11	15.0	1	0.0	0.00	10.60	99.00	99.00
7	11	29	12	15.0	1	0.0	0.00	11.80	99.00	99.00
7	11	29	13	15.0	1	322.0	1.00	12.90	99.00	99.00
7	11	29	14	15.0	1	327.0	1.50	13.80	99.00	99.00
7	11	29	15	15.0	1	345.0	2.60	13.60	99.00	99.00
7	11	29	16	15.0	1	353.0	2.60	12.60	99.00	99.00
7	11	29	17	15.0	1	0.0	0.00	11.60	99.00	99.00
7	11	29	18	15.0	1	6.0	1.50	11.00	99.00	99.00
7	11	29	19	15.0	1	329.0	0.50	10.60	99.00	99.00
7	11	29	20	15.0	1	297.0	1.00	10.30	99.00	99.00
7	11	29	21	15.0	1	311.0	1.00	10.10	99.00	99.00
7	11	29	22	15.0	1	328.0	1.50	9.90	99.00	99.00
7	11	29	23	15.0	1	338.0	1.50	9.80	99.00	99.00
7	11	29	24	15.0	1	343.0	1.50	9.60	99.00	99.00
7	11	30	1	15.0	1	333.0	1.50	9.60	99.00	99.00
7	11	30	2	15.0	1	322.0	1.50	9.50	99.00	99.00
7	11	30	3	15.0	1	312.0	1.50	9.40	99.00	99.00
7	11	30	4	15.0	1	300.0	1.50	9.10	99.00	99.00
7	11	30	5	15.0	1	298.0	1.00	8.90	99.00	99.00
7	11	30	6	15.0	1	317.0	1.00	8.60	99.00	99.00
7	11	30	7	15.0	1	301.0	0.50	8.30	99.00	99.00
7	11	30	8	15.0	1	284.0	0.50	8.10	99.00	99.00
7	11	30	9	15.0	1	316.0	1.50	8.90	99.00	99.00
7	11	30	10	15.0	1	338.0	2.60	9.60	99.00	99.00
7	11	30	11	15.0	1	336.0	2.60	10.40	99.00	99.00
7	11	30	12	15.0	1	345.0	2.60	10.90	99.00	99.00
7	11	30	13	15.0	1	328.0	2.60	11.10	99.00	99.00
7	11	30	14	15.0	1	332.0	2.60	11.10	99.00	99.00
7	11	30	15	15.0	1	328.0	3.10	11.10	99.00	99.00
7	11	30	16	15.0	1	316.0	2.60	10.90	99.00	99.00

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 7 11 30 17    15.0 1   314.0     2.60    10.40    99.00    99.00
 7 11 30 18    15.0 1   296.0     2.10     9.90    99.00    99.00
 7 11 30 19    15.0 1   276.0     2.60     9.30    99.00    99.00
 7 11 30 20    15.0 1   295.0     3.10     8.10    99.00    99.00
 7 11 30 21    15.0 1   301.0     3.10     7.00    99.00    99.00
 7 11 30 22    15.0 1   314.0     2.60     6.10    99.00    99.00
 7 11 30 23    15.0 1   300.0     2.60     5.60    99.00    99.00
 7 11 30 24    15.0 1   294.0     2.10     5.10    99.00    99.00
 7 12  1  1    15.0 1   305.0     2.10     4.80    99.00    99.00
 7 12  1  2    15.0 1   301.0     1.50     4.50    99.00    99.00
 7 12  1  3    15.0 1   312.0     1.00     4.10    99.00    99.00
 7 12  1  4    15.0 1   314.0     0.50     3.60    99.00    99.00
 7 12  1  5    15.0 1   331.0     0.50     3.10    99.00    99.00
 7 12  1  6    15.0 1     0.0     0.00     2.80    99.00    99.00
 7 12  1  7    15.0 1   165.0     0.50     2.40    99.00    99.00
 7 12  1  8    15.0 1   170.0     1.00     2.10    99.00    99.00
 7 12  1  9    15.0 1   188.0     0.50     4.10    99.00    99.00
 7 12  1 10    15.0 1     0.0     0.00     6.10    99.00    99.00
 7 12  1 11    15.0 1     0.0     0.00     7.30    99.00    99.00
 7 12  1 12    15.0 1     0.0     0.00     8.50    99.00    99.00
 7 12  1 13    15.0 1     0.0     0.00     9.50    99.00    99.00
 7 12  1 14    15.0 1     5.0     0.50    10.10    99.00    99.00
 7 12  1 15    15.0 1     6.0     1.50    10.40    99.00    99.00
 7 12  1 16    15.0 1    30.0     2.60    10.40    99.00    99.00
 7 12  1 17    15.0 1    32.0     3.10     9.60    99.00    99.00
 7 12  1 18    15.0 1    39.0     3.10     8.90    99.00    99.00
 7 12  1 19    15.0 1    62.0     2.60     8.10    99.00    99.00
 7 12  1 20    15.0 1    94.0     2.60     7.10    99.00    99.00
 7 12  1 21    15.0 1   114.0     2.60     6.40    99.00    99.00
 7 12  1 22    15.0 1   119.0     2.60     5.80    99.00    99.00
 7 12  1 23    15.0 1   131.0     2.60     5.30    99.00    99.00
 7 12  1 24    15.0 1   144.0     2.10     4.90    99.00    99.00
 7 12  2  1    15.0 1   136.0     1.50     4.60    99.00    99.00
 7 12  2  2    15.0 1   132.0     1.00     4.40    99.00    99.00
 7 12  2  3    15.0 1   101.0     0.50     4.40    99.00    99.00
 7 12  2  4    15.0 1    74.0     1.00     4.40    99.00    99.00
 7 12  2  5    15.0 1    71.0     1.50     4.40    99.00    99.00
 7 12  2  6    15.0 1    87.0     2.10     4.60    99.00    99.00
 7 12  2  7    15.0 1   115.0     1.50     4.90    99.00    99.00
 7 12  2  8    15.0 1   131.0     1.00     5.00    99.00    99.00
 7 12  2  9    15.0 1   128.0     1.00     5.60    99.00    99.00
 7 12  2 10    15.0 1   141.0     1.50     8.10    99.00    99.00
 7 12  2 11    15.0 1   155.0     1.00     9.90    99.00    99.00
 7 12  2 12    15.0 1     0.0     0.00    11.60    99.00    99.00
 7 12  2 13    15.0 1     0.0     0.00    12.90    99.00    99.00
 7 12  2 14    15.0 1     0.0     0.00    13.60    99.00    99.00
 7 12  2 15    15.0 1   344.0     0.50    14.00    99.00    99.00
 7 12  2 16    15.0 1   352.0     1.50    13.90    99.00    99.00
 7 12  2 17    15.0 1     0.0     0.00    13.10    99.00    99.00
 7 12  2 18    15.0 1    19.0     2.10    11.90    99.00    99.00
 7 12  2 19    15.0 1    44.0     2.10    10.60    99.00    99.00
 7 12  2 20    15.0 1    58.0     1.50     9.80    99.00    99.00
 7 12  2 21    15.0 1     0.0     0.00     8.90    99.00    99.00
 7 12  2 22    15.0 1   292.0     0.50     8.10    99.00    99.00
 7 12  2 23    15.0 1   303.0     0.50     7.50    99.00    99.00
 7 12  2 24    15.0 1   336.0     0.50     7.00    99.00    99.00
 7 12  3  1    15.0 1   353.0     1.00     6.80    99.00    99.00
 7 12  3  2    15.0 1   333.0     1.00     6.50    99.00    99.00
 7 12  3  3    15.0 1   343.0     1.00     6.10    99.00    99.00
 7 12  3  4    15.0 1   354.0     1.00     5.80    99.00    99.00
 7 12  3  5    15.0 1   347.0     1.00     5.60    99.00    99.00
 7 12  3  6    15.0 1   350.0     0.50     5.50    99.00    99.00
 7 12  3  7    15.0 1     0.0     0.00     5.10    99.00    99.00
 7 12  3  8    15.0 1     0.0     0.00     5.00    99.00    99.00
 7 12  3  9    15.0 1     0.0     0.00     6.10    99.00    99.00
 7 12  3 10    15.0 1     0.0     0.00     9.90    99.00    99.00
 7 12  3 11    15.0 1     0.0     0.00    11.80    99.00    99.00
 7 12  3 12    15.0 1     0.0     0.00    13.60    99.00    99.00
 7 12  3 13    15.0 1     0.0     0.00    14.90    99.00    99.00
 7 12  3 14    15.0 1     0.0     0.00    15.90    99.00    99.00
 7 12  3 15    15.0 1     0.0     0.00    16.30    99.00    99.00
 7 12  3 16    15.0 1     0.0     0.00    16.10    99.00    99.00
 7 12  3 17    15.0 1     0.0     0.00    15.10    99.00    99.00
 7 12  3 18    15.0 1     0.0     0.00    13.80    99.00    99.00
 7 12  3 19    15.0 1     0.0     0.00    12.60    99.00    99.00
 7 12  3 20    15.0 1     0.0     0.00    11.50    99.00    99.00
 7 12  3 21    15.0 1     0.0     0.00    10.60    99.00    99.00
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 7 12  3 22    15.0 1    83.0     0.50     9.80    99.00    99.00
 7 12  3 23    15.0 1    82.0     0.50     9.10    99.00    99.00
 7 12  3 24    15.0 1    95.0     0.50     8.60    99.00    99.00
 7 12  4  1    15.0 1    99.0     0.50     8.10    99.00    99.00
 7 12  4  2    15.0 1   109.0     1.00     7.80    99.00    99.00
 7 12  4  3    15.0 1   118.0     1.50     7.60    99.00    99.00
 7 12  4  4    15.0 1   116.0     1.50     7.50    99.00    99.00
 7 12  4  5    15.0 1   119.0     1.50     7.40    99.00    99.00
 7 12  4  6    15.0 1   118.0     1.50     7.10    99.00    99.00
 7 12  4  7    15.0 1   120.0     1.00     7.00    99.00    99.00
 7 12  4  8    15.0 1   117.0     1.00     6.90    99.00    99.00
 7 12  4  9    15.0 1   104.0     0.50     8.10    99.00    99.00
 7 12  4 10    15.0 1     0.0     0.00    12.00    99.00    99.00
 7 12  4 11    15.0 1     0.0     0.00    14.40    99.00    99.00
 7 12  4 12    15.0 1     0.0     0.00    16.00    99.00    99.00
 7 12  4 13    15.0 1     0.0     0.00    17.30    99.00    99.00
 7 12  4 14    15.0 1     0.0     0.00    18.00    99.00    99.00
 7 12  4 15    15.0 1   337.0     1.00    18.00    99.00    99.00
 7 12  4 16    15.0 1   357.0     1.50    17.40    99.00    99.00
 7 12  4 17    15.0 1    24.0     2.10    16.10    99.00    99.00
 7 12  4 18    15.0 1    37.0     1.50    15.10    99.00    99.00
 7 12  4 19    15.0 1    72.0     0.50    14.30    99.00    99.00
 7 12  4 20    15.0 1     0.0     0.00    13.60    99.00    99.00
 7 12  4 21    15.0 1     0.0     0.00    13.10    99.00    99.00
 7 12  4 22    15.0 1   109.0     0.50    12.90    99.00    99.00
 7 12  4 23    15.0 1   117.0     0.50    12.80    99.00    99.00
 7 12  4 24    15.0 1    78.0     0.50    12.60    99.00    99.00
 7 12  5  1    15.0 1     0.0     0.00    12.60    99.00    99.00
 7 12  5  2    15.0 1    83.0     0.50    12.40    99.00    99.00
 7 12  5  3    15.0 1   104.0     0.50    12.10    99.00    99.00
 7 12  5  4    15.0 1     0.0     0.00    12.10    99.00    99.00
 7 12  5  5    15.0 1     0.0     0.00    11.90    99.00    99.00
 7 12  5  6    15.0 1     0.0     0.00    11.60    99.00    99.00
 7 12  5  7    15.0 1     0.0     0.00    11.10    99.00    99.00
 7 12  5  8    15.0 1     0.0     0.00    11.00    99.00    99.00
 7 12  5  9    15.0 1   262.0     0.50    12.30    99.00    99.00
 7 12  5 10    15.0 1   287.0     1.00    13.90    99.00    99.00
 7 12  5 11    15.0 1   293.0     1.50    14.10    99.00    99.00
 7 12  5 12    15.0 1   302.0     2.10    14.50    99.00    99.00
 7 12  5 13    15.0 1   288.0     2.10    14.90    99.00    99.00
 7 12  5 14    15.0 1   300.0     1.50    16.00    99.00    99.00
 7 12  5 15    15.0 1   324.0     1.50    16.60    99.00    99.00
 7 12  5 16    15.0 1   346.0     1.00    16.90    99.00    99.00
 7 12  5 17    15.0 1    18.0     0.50    16.10    99.00    99.00
 7 12  5 18    15.0 1     0.0     0.00    15.30    99.00    99.00
 7 12  5 19    15.0 1     0.0     0.00    14.30    99.00    99.00
 7 12  5 20    15.0 1     0.0     0.00    13.30    99.00    99.00
 7 12  5 21    15.0 1     0.0     0.00    12.60    99.00    99.00
 7 12  5 22    15.0 1     0.0     0.00    10.80    99.00    99.00
 7 12  5 23    15.0 1   206.0     0.50     9.40    99.00    99.00
 7 12  5 24    15.0 1   310.0     1.00    10.00    99.00    99.00
 7 12  6  1    15.0 1   320.0     1.50    10.30    99.00    99.00
 7 12  6  2    15.0 1   314.0     2.10    10.50    99.00    99.00
 7 12  6  3    15.0 1   308.0     2.10    10.10    99.00    99.00
 7 12  6  4    15.0 1   308.0     2.10    10.00    99.00    99.00
 7 12  6  5    15.0 1   314.0     2.10     9.80    99.00    99.00
 7 12  6  6    15.0 1   308.0     1.50     9.60    99.00    99.00
 7 12  6  7    15.0 1   324.0     1.50     9.60    99.00    99.00
 7 12  6  8    15.0 1   326.0     1.00     9.60    99.00    99.00
 7 12  6  9    15.0 1   344.0     1.00     9.80    99.00    99.00
 7 12  6 10    15.0 1   346.0     1.00    10.10    99.00    99.00
 7 12  6 11    15.0 1    12.0     0.50    10.60    99.00    99.00
 7 12  6 12    15.0 1    34.0     0.50    11.40    99.00    99.00
 7 12  6 13    15.0 1    41.0     0.50    11.80    99.00    99.00
 7 12  6 14    15.0 1    63.0     0.50    12.00    99.00    99.00
 7 12  6 15    15.0 1     0.0     0.00    11.90    99.00    99.00
 7 12  6 16    15.0 1   188.0     0.50    12.90    99.00    99.00
 7 12  6 17    15.0 1   168.0     0.50    12.80    99.00    99.00
 7 12  6 18    15.0 1   171.0     1.50    12.90    99.00    99.00
 7 12  6 19    15.0 1   172.0     2.60    12.90    99.00    99.00
 7 12  6 20    15.0 1   174.0     3.60    12.90    99.00    99.00
 7 12  6 21    15.0 1   169.0     3.60    12.90    99.00    99.00
 7 12  6 22    15.0 1   183.0     3.10    13.00    99.00    99.00
 7 12  6 23    15.0 1   142.0     2.10    12.90    99.00    99.00
 7 12  6 24    15.0 1   106.0     2.10    12.80    99.00    99.00
 7 12  7  1    15.0 1    96.0     2.60    12.60    99.00    99.00
 7 12  7  2    15.0 1   100.0     3.10    12.60    99.00    99.00
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 7 12  7  3    15.0 1   100.0     3.10    12.60    99.00    99.00
 7 12  7  4    15.0 1   116.0     1.50    12.50    99.00    99.00
 7 12  7  5    15.0 1   244.0     3.10    12.00    99.00    99.00
 7 12  7  6    15.0 1   250.0     5.10    11.00    99.00    99.00
 7 12  7  7    15.0 1   265.0     4.60    10.50    99.00    99.00
 7 12  7  8    15.0 1   270.0     5.10    10.60    99.00    99.00
 7 12  7  9    15.0 1   284.0     5.10    11.30    99.00    99.00
 7 12  7 10    15.0 1   297.0     6.20    12.50    99.00    99.00
 7 12  7 11    15.0 1   314.0     6.20    13.10    99.00    99.00
 7 12  7 12    15.0 1   306.0     5.70    13.00    99.00    99.00
 7 12  7 13    15.0 1   309.0     5.10    12.60    99.00    99.00
 7 12  7 14    15.0 1   314.0     4.10    12.10    99.00    99.00
 7 12  7 15    15.0 1   304.0     2.60    11.80    99.00    99.00
 7 12  7 16    15.0 1   272.0     2.10    11.40    99.00    99.00
 7 12  7 17    15.0 1   263.0     3.60    10.90    99.00    99.00
 7 12  7 18    15.0 1   261.0     3.60    10.60    99.00    99.00
 7 12  7 19    15.0 1   268.0     3.60    10.50    99.00    99.00
 7 12  7 20    15.0 1   276.0     3.60    10.10    99.00    99.00
 7 12  7 21    15.0 1   276.0     4.10     9.40    99.00    99.00
 7 12  7 22    15.0 1   279.0     4.10     9.00    99.00    99.00
 7 12  7 23    15.0 1   285.0     4.60     8.60    99.00    99.00
 7 12  7 24    15.0 1   277.0     4.60     8.40    99.00    99.00
 7 12  8  1    15.0 1   286.0     4.10     7.80    99.00    99.00
 7 12  8  2    15.0 1   288.0     4.10     7.40    99.00    99.00
 7 12  8  3    15.0 1   300.0     3.60     6.90    99.00    99.00
 7 12  8  4    15.0 1   299.0     3.60     6.30    99.00    99.00
 7 12  8  5    15.0 1   301.0     3.10     5.60    99.00    99.00
 7 12  8  6    15.0 1   293.0     3.10     5.30    99.00    99.00
 7 12  8  7    15.0 1   295.0     2.60     5.00    99.00    99.00
 7 12  8  8    15.0 1   291.0     2.60     4.60    99.00    99.00
 7 12  8  9    15.0 1   332.0     3.60     6.10    99.00    99.00
 7 12  8 10    15.0 1   331.0     3.60     6.90    99.00    99.00
 7 12  8 11    15.0 1   349.0     2.60     7.60    99.00    99.00
 7 12  8 12    15.0 1   356.0     2.10     8.50    99.00    99.00
 7 12  8 13    15.0 1     0.0     0.00     9.10    99.00    99.00
 7 12  8 14    15.0 1    15.0     1.00     9.60    99.00    99.00
 7 12  8 15    15.0 1     6.0     1.00     9.90    99.00    99.00
 7 12  8 16    15.0 1    27.0     1.50     9.80    99.00    99.00
 7 12  8 17    15.0 1    56.0     2.60     9.10    99.00    99.00
 7 12  8 18    15.0 1    76.0     3.60     7.90    99.00    99.00
 7 12  8 19    15.0 1    95.0     3.60     6.80    99.00    99.00
 7 12  8 20    15.0 1   102.0     3.60     6.10    99.00    99.00
 7 12  8 21    15.0 1   122.0     3.10     6.10    99.00    99.00
 7 12  8 22    15.0 1   140.0     3.10     6.10    99.00    99.00
 7 12  8 23    15.0 1   138.0     2.60     6.10    99.00    99.00
 7 12  8 24    15.0 1   153.0     1.50     5.90    99.00    99.00
 7 12  9  1    15.0 1    83.0     0.50     5.30    99.00    99.00
 7 12  9  2    15.0 1   332.0     0.50     4.50    99.00    99.00
 7 12  9  3    15.0 1   312.0     1.50     3.90    99.00    99.00
 7 12  9  4    15.0 1   311.0     2.10     3.40    99.00    99.00
 7 12  9  5    15.0 1   314.0     2.10     2.90    99.00    99.00
 7 12  9  6    15.0 1   297.0     2.10     1.80    99.00    99.00
 7 12  9  7    15.0 1   306.0     1.50     1.40    99.00    99.00
 7 12  9  8    15.0 1   299.0     1.50     1.40    99.00    99.00
 7 12  9  9    15.0 1   311.0     1.50     2.60    99.00    99.00
 7 12  9 10    15.0 1   292.0     1.50     4.30    99.00    99.00
 7 12  9 11    15.0 1   290.0     1.00     6.30    99.00    99.00
 7 12  9 12    15.0 1   299.0     1.50     8.10    99.00    99.00
 7 12  9 13    15.0 1   311.0     2.10     9.10    99.00    99.00
 7 12  9 14    15.0 1   335.0     2.60    10.00    99.00    99.00
 7 12  9 15    15.0 1   345.0     3.10    10.30    99.00    99.00
 7 12  9 16    15.0 1   353.0     2.60    10.10    99.00    99.00
 7 12  9 17    15.0 1    12.0     2.10     9.40    99.00    99.00
 7 12  9 18    15.0 1    34.0     1.50     8.40    99.00    99.00
 7 12  9 19    15.0 1    64.0     1.00     7.30    99.00    99.00
 7 12  9 20    15.0 1     0.0     0.00     6.30    99.00    99.00
 7 12  9 21    15.0 1   211.0     0.50     5.10    99.00    99.00
 7 12  9 22    15.0 1   205.0     0.50     4.50    99.00    99.00
 7 12  9 23    15.0 1   197.0     0.50     4.00    99.00    99.00
 7 12  9 24    15.0 1   217.0     0.50     3.60    99.00    99.00
 7 12 10  1    15.0 1   244.0     1.00     3.10    99.00    99.00
 7 12 10  2    15.0 1   255.0     1.50     2.90    99.00    99.00
 7 12 10  3    15.0 1   258.0     1.50     2.60    99.00    99.00
 7 12 10  4    15.0 1   277.0     1.50     2.40    99.00    99.00
 7 12 10  5    15.0 1   285.0     1.50     2.10    99.00    99.00
 7 12 10  6    15.0 1   273.0     1.50     2.00    99.00    99.00
 7 12 10  7    15.0 1   272.0     1.00     1.60    99.00    99.00
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 7 12 10  8    15.0 1   253.0     1.50     1.40    99.00    99.00
 7 12 10  9    15.0 1   282.0     1.50     2.60    99.00    99.00
 7 12 10 10    15.0 1   276.0     1.00     4.40    99.00    99.00
 7 12 10 11    15.0 1   263.0     0.50     6.10    99.00    99.00
 7 12 10 12    15.0 1   266.0     1.00     7.50    99.00    99.00
 7 12 10 13    15.0 1   286.0     1.50     8.40    99.00    99.00
 7 12 10 14    15.0 1   310.0     2.10     9.10    99.00    99.00
 7 12 10 15    15.0 1   325.0     2.60     9.50    99.00    99.00
 7 12 10 16    15.0 1   331.0     2.60     9.30    99.00    99.00
 7 12 10 17    15.0 1   348.0     2.60     8.60    99.00    99.00
 7 12 10 18    15.0 1     1.0     1.50     7.60    99.00    99.00
 7 12 10 19    15.0 1     0.0     0.00     6.60    99.00    99.00
 7 12 10 20    15.0 1   197.0     0.50     5.60    99.00    99.00
 7 12 10 21    15.0 1   200.0     0.50     4.60    99.00    99.00
 7 12 10 22    15.0 1   216.0     0.50     4.00    99.00    99.00
 7 12 10 23    15.0 1   254.0     0.50     3.50    99.00    99.00
 7 12 10 24    15.0 1   274.0     0.50     3.10    99.00    99.00
 7 12 11  1    15.0 1   271.0     0.50     2.60    99.00    99.00
 7 12 11  2    15.0 1   268.0     1.00     2.30    99.00    99.00
 7 12 11  3    15.0 1   270.0     1.50     2.00    99.00    99.00
 7 12 11  4    15.0 1   252.0     1.50     1.60    99.00    99.00
 7 12 11  5    15.0 1   235.0     1.50     1.50    99.00    99.00
 7 12 11  6    15.0 1   240.0     2.60     1.50    99.00    99.00
 7 12 11  7    15.0 1   263.0     3.60     1.50    99.00    99.00
 7 12 11  8    15.0 1   272.0     3.10     1.10    99.00    99.00
 7 12 11  9    15.0 1   299.0     3.10     2.80    99.00    99.00
 7 12 11 10    15.0 1   301.0     3.10     4.60    99.00    99.00
 7 12 11 11    15.0 1   300.0     2.60     6.40    99.00    99.00
 7 12 11 12    15.0 1   300.0     2.10     8.00    99.00    99.00
 7 12 11 13    15.0 1   318.0     2.10     9.10    99.00    99.00
 7 12 11 14    15.0 1   331.0     2.10     9.90    99.00    99.00
 7 12 11 15    15.0 1   346.0     2.60    10.10    99.00    99.00
 7 12 11 16    15.0 1     0.0     0.00    10.80    99.00    99.00
 7 12 11 17    15.0 1    17.0     3.10    10.00    99.00    99.00
 7 12 11 18    15.0 1    34.0     3.10     9.00    99.00    99.00
 7 12 11 19    15.0 1    53.0     1.50     8.00    99.00    99.00
 7 12 11 20    15.0 1   214.0     0.50     6.90    99.00    99.00
 7 12 11 21    15.0 1   255.0     0.50     5.90    99.00    99.00
 7 12 11 22    15.0 1   281.0     1.00     5.10    99.00    99.00
 7 12 11 23    15.0 1   285.0     1.50     4.60    99.00    99.00
 7 12 11 24    15.0 1   294.0     2.10     4.10    99.00    99.00
 7 12 12  1    15.0 1   298.0     2.60     3.80    99.00    99.00
 7 12 12  2    15.0 1   297.0     3.60     3.30    99.00    99.00
 7 12 12  3    15.0 1   313.0     3.60     2.60    99.00    99.00
 7 12 12  4    15.0 1   312.0     3.10     2.00    99.00    99.00
 7 12 12  5    15.0 1   305.0     2.60     1.60    99.00    99.00
 7 12 12  6    15.0 1   304.0     2.60     1.30    99.00    99.00
 7 12 12  7    15.0 1   273.0     1.50     1.40    99.00    99.00
 7 12 12  8    15.0 1   243.0     1.50     1.60    99.00    99.00
 7 12 12  9    15.0 1   265.0     1.50     2.40    99.00    99.00
 7 12 12 10    15.0 1   289.0     1.00     4.10    99.00    99.00
 7 12 12 11    15.0 1   271.0     0.50     5.50    99.00    99.00
 7 12 12 12    15.0 1   279.0     1.00     6.30    99.00    99.00
 7 12 12 13    15.0 1   278.0     1.00     6.80    99.00    99.00
 7 12 12 14    15.0 1   285.0     1.00     7.10    99.00    99.00
 7 12 12 15    15.0 1   285.0     1.50     7.10    99.00    99.00
 7 12 12 16    15.0 1   305.0     0.50     6.90    99.00    99.00
 7 12 12 17    15.0 1     0.0     0.00     6.30    99.00    99.00
 7 12 12 18    15.0 1     0.0     0.00     5.30    99.00    99.00
 7 12 12 19    15.0 1     0.0     0.00     4.40    99.00    99.00
 7 12 12 20    15.0 1     0.0     0.00     3.60    99.00    99.00
 7 12 12 21    15.0 1     0.0     0.00     3.00    99.00    99.00
 7 12 12 22    15.0 1     0.0     0.00     2.50    99.00    99.00
 7 12 12 23    15.0 1     0.0     0.00     2.10    99.00    99.00
 7 12 12 24    15.0 1     0.0     0.00     2.10    99.00    99.00
 7 12 13  1    15.0 1     0.0     0.00     1.90    99.00    99.00
 7 12 13  2    15.0 1     0.0     0.00     1.80    99.00    99.00
 7 12 13  3    15.0 1     0.0     0.00     1.60    99.00    99.00
 7 12 13  4    15.0 1   337.0     0.50     1.50    99.00    99.00
 7 12 13  5    15.0 1   330.0     1.00     1.10    99.00    99.00
 7 12 13  6    15.0 1   319.0     1.00     0.60    99.00    99.00
 7 12 13  7    15.0 1   296.0     1.00     0.10    99.00    99.00
 7 12 13  8    15.0 1   280.0     1.50     0.00    99.00    99.00
 7 12 13  9    15.0 1   297.0     1.50     1.60    99.00    99.00
 7 12 13 10    15.0 1   296.0     1.00     3.50    99.00    99.00
 7 12 13 11    15.0 1   299.0     1.00     5.10    99.00    99.00
 7 12 13 12    15.0 1   309.0     1.00     6.90    99.00    99.00
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 7 12 13 13    15.0 1   320.0     1.00     7.90    99.00    99.00
 7 12 13 14    15.0 1   325.0     1.00     8.60    99.00    99.00
 7 12 13 15    15.0 1   332.0     1.00     9.00    99.00    99.00
 7 12 13 16    15.0 1   349.0     1.00     9.00    99.00    99.00
 7 12 13 17    15.0 1    32.0     1.00     8.10    99.00    99.00
 7 12 13 18    15.0 1     0.0     0.00     7.10    99.00    99.00
 7 12 13 19    15.0 1     0.0     0.00     5.80    99.00    99.00
 7 12 13 20    15.0 1     0.0     0.00     4.80    99.00    99.00
 7 12 13 21    15.0 1     0.0     0.00     3.90    99.00    99.00
 7 12 13 22    15.0 1    85.0     0.50     3.00    99.00    99.00
 7 12 13 23    15.0 1    82.0     0.50     2.30    99.00    99.00
 7 12 13 24    15.0 1     0.0     0.00     1.60    99.00    99.00
 7 12 14  1    15.0 1     0.0     0.00     1.10    99.00    99.00
 7 12 14  2    15.0 1     0.0     0.00     0.80    99.00    99.00
 7 12 14  3    15.0 1     0.0     0.00     0.50    99.00    99.00
 7 12 14  4    15.0 1   307.0     0.50     0.30    99.00    99.00
 7 12 14  5    15.0 1   304.0     0.50     0.10    99.00    99.00
 7 12 14  6    15.0 1   318.0     0.50     0.00    99.00    99.00
 7 12 14  7    15.0 1   245.0     0.50    -0.30    99.00    99.00
 7 12 14  8    15.0 1   232.0     1.00    -0.40    99.00    99.00
 7 12 14  9    15.0 1   258.0     1.00     1.10    99.00    99.00
 7 12 14 10    15.0 1   294.0     1.00     3.90    99.00    99.00
 7 12 14 11    15.0 1   314.0     1.00     5.60    99.00    99.00
 7 12 14 12    15.0 1   307.0     1.00     7.50    99.00    99.00
 7 12 14 13    15.0 1   305.0     1.00     9.00    99.00    99.00
 7 12 14 14    15.0 1   325.0     1.00     9.80    99.00    99.00
 7 12 14 15    15.0 1   344.0     1.00    10.10    99.00    99.00
 7 12 14 16    15.0 1     5.0     1.50    10.00    99.00    99.00
 7 12 14 17    15.0 1     0.0     0.00     9.10    99.00    99.00
 7 12 14 18    15.0 1   345.0     0.50     8.00    99.00    99.00
 7 12 14 19    15.0 1     0.0     0.00     6.80    99.00    99.00
 7 12 14 20    15.0 1     0.0     0.00     5.60    99.00    99.00
 7 12 14 21    15.0 1     0.0     0.00     4.80    99.00    99.00
 7 12 14 22    15.0 1     0.0     0.00     4.10    99.00    99.00
 7 12 14 23    15.0 1     0.0     0.00     3.50    99.00    99.00
 7 12 14 24    15.0 1     0.0     0.00     3.00    99.00    99.00
 7 12 15  1    15.0 1     0.0     0.00     2.50    99.00    99.00
 7 12 15  2    15.0 1     0.0     0.00     2.10    99.00    99.00
 7 12 15  3    15.0 1   319.0     0.50     2.00    99.00    99.00
 7 12 15  4    15.0 1   320.0     1.00     1.80    99.00    99.00
 7 12 15  5    15.0 1   330.0     1.00     1.60    99.00    99.00
 7 12 15  6    15.0 1   355.0     0.50     1.40    99.00    99.00
 7 12 15  7    15.0 1   336.0     0.50     1.10    99.00    99.00
 7 12 15  8    15.0 1     0.0     0.00     0.90    99.00    99.00
 7 12 15  9    15.0 1     0.0     0.00     2.10    99.00    99.00
 7 12 15 10    15.0 1   317.0     1.00     5.30    99.00    99.00
 7 12 15 11    15.0 1   317.0     0.50     7.10    99.00    99.00
 7 12 15 12    15.0 1   328.0     1.00     8.80    99.00    99.00
 7 12 15 13    15.0 1   331.0     1.00    10.10    99.00    99.00
 7 12 15 14    15.0 1   336.0     1.00    11.10    99.00    99.00
 7 12 15 15    15.0 1   336.0     1.50    11.60    99.00    99.00
 7 12 15 16    15.0 1   348.0     1.50    11.30    99.00    99.00
 7 12 15 17    15.0 1   360.0     1.00    10.40    99.00    99.00
 7 12 15 18    15.0 1     0.0     0.00     9.10    99.00    99.00
 7 12 15 19    15.0 1     0.0     0.00     7.60    99.00    99.00
 7 12 15 20    15.0 1     0.0     0.00     6.60    99.00    99.00
 7 12 15 21    15.0 1     0.0     0.00     5.60    99.00    99.00
 7 12 15 22    15.0 1     0.0     0.00     4.90    99.00    99.00
 7 12 15 23    15.0 1    20.0     0.50     4.40    99.00    99.00
 7 12 15 24    15.0 1    19.0     1.00     3.90    99.00    99.00
 7 12 16  1    15.0 1     9.0     0.50     3.40    99.00    99.00
 7 12 16  2    15.0 1   358.0     0.50     3.00    99.00    99.00
 7 12 16  3    15.0 1   319.0     0.50     2.60    99.00    99.00
 7 12 16  4    15.0 1   313.0     1.50     2.10    99.00    99.00
 7 12 16  5    15.0 1   315.0     2.10     1.90    99.00    99.00
 7 12 16  6    15.0 1   314.0     2.10     1.60    99.00    99.00
 7 12 16  7    15.0 1   319.0     1.50     1.40    99.00    99.00
 7 12 16  8    15.0 1   338.0     1.00     1.10    99.00    99.00
 7 12 16  9    15.0 1   343.0     1.50     2.80    99.00    99.00
 7 12 16 10    15.0 1   324.0     1.50     5.10    99.00    99.00
 7 12 16 11    15.0 1   307.0     1.00     7.10    99.00    99.00
 7 12 16 12    15.0 1   325.0     1.00     8.80    99.00    99.00
 7 12 16 13    15.0 1   326.0     0.50    10.30    99.00    99.00
 7 12 16 14    15.0 1   326.0     1.00    11.40    99.00    99.00
 7 12 16 15    15.0 1   343.0     1.00    11.80    99.00    99.00
 7 12 16 16    15.0 1    13.0     1.00    13.10    99.00    99.00
 7 12 16 17    15.0 1   102.0     0.50    12.50    99.00    99.00
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 7 12 16 18    15.0 1   159.0     1.00    11.40    99.00    99.00
 7 12 16 19    15.0 1   183.0     1.50    10.60    99.00    99.00
 7 12 16 20    15.0 1   176.0     2.10    10.10    99.00    99.00
 7 12 16 21    15.0 1   202.0     1.50    10.00    99.00    99.00
 7 12 16 22    15.0 1   258.0     1.00     9.90    99.00    99.00
 7 12 16 23    15.0 1   301.0     2.10     9.10    99.00    99.00
 7 12 16 24    15.0 1   315.0     3.10     8.10    99.00    99.00
 7 12 17  1    15.0 1   310.0     2.10     7.30    99.00    99.00
 7 12 17  2    15.0 1     0.0     0.00     6.90    99.00    99.00
 7 12 17  3    15.0 1     0.0     0.00     6.60    99.00    99.00
 7 12 17  4    15.0 1     0.0     0.00     6.50    99.00    99.00
 7 12 17  5    15.0 1    78.0     0.50     4.60    99.00    99.00
 7 12 17  6    15.0 1    86.0     1.50     3.30    99.00    99.00
 7 12 17  7    15.0 1    97.0     1.50     2.90    99.00    99.00
 7 12 17  8    15.0 1    99.0     1.00     2.40    99.00    99.00
 7 12 17  9    15.0 1    77.0     0.50     2.60    99.00    99.00
 7 12 17 10    15.0 1    94.0     0.50     4.10    99.00    99.00
 7 12 17 11    15.0 1   100.0     0.50     6.60    99.00    99.00
 7 12 17 12    15.0 1     0.0     0.00     9.50    99.00    99.00
 7 12 17 13    15.0 1   253.0     0.50    10.10    99.00    99.00
 7 12 17 14    15.0 1   288.0     1.00    10.10    99.00    99.00
 7 12 17 15    15.0 1   313.0     0.50    10.10    99.00    99.00
 7 12 17 16    15.0 1   329.0     0.50    10.10    99.00    99.00
 7 12 17 17    15.0 1     0.0     0.00     9.90    99.00    99.00
 7 12 17 18    15.0 1     0.0     0.00     9.60    99.00    99.00
 7 12 17 19    15.0 1   133.0     0.50     9.60    99.00    99.00
 7 12 17 20    15.0 1   128.0     1.00     9.60    99.00    99.00
 7 12 17 21    15.0 1   129.0     1.00     9.60    99.00    99.00
 7 12 17 22    15.0 1   130.0     1.50     9.60    99.00    99.00
 7 12 17 23    15.0 1   139.0     1.50     9.60    99.00    99.00
 7 12 17 24    15.0 1   147.0     2.10     9.60    99.00    99.00
 7 12 18  1    15.0 1   150.0     1.50     9.60    99.00    99.00
 7 12 18  2    15.0 1   150.0     1.00     9.60    99.00    99.00
 7 12 18  3    15.0 1   136.0     2.10     9.60    99.00    99.00
 7 12 18  4    15.0 1   127.0     3.10     9.50    99.00    99.00
 7 12 18  5    15.0 1   140.0     3.10     9.40    99.00    99.00
 7 12 18  6    15.0 1   137.0     3.10     9.40    99.00    99.00
 7 12 18  7    15.0 1   145.0     3.10     9.40    99.00    99.00
 7 12 18  8    15.0 1   131.0     3.60     9.50    99.00    99.00
 7 12 18  9    15.0 1   126.0     3.60     9.80    99.00    99.00
 7 12 18 10    15.0 1   124.0     3.10    10.60    99.00    99.00
 7 12 18 11    15.0 1   119.0     3.10    11.50    99.00    99.00
 7 12 18 12    15.0 1   111.0     3.10    11.90    99.00    99.00
 7 12 18 13    15.0 1   105.0     2.60    12.00    99.00    99.00
 7 12 18 14    15.0 1   104.0     3.10    11.80    99.00    99.00
 7 12 18 15    15.0 1   110.0     3.60    11.60    99.00    99.00
 7 12 18 16    15.0 1   121.0     4.10    11.40    99.00    99.00
 7 12 18 17    15.0 1   129.0     4.60    11.40    99.00    99.00
 7 12 18 18    15.0 1   143.0     4.10    11.50    99.00    99.00
 7 12 18 19    15.0 1   139.0     3.60    11.60    99.00    99.00
 7 12 18 20    15.0 1   144.0     3.10    11.80    99.00    99.00
 7 12 18 21    15.0 1   146.0     1.00    12.10    99.00    99.00
 7 12 18 22    15.0 1   298.0     1.00    11.80    99.00    99.00
 7 12 18 23    15.0 1   304.0     3.10    10.60    99.00    99.00
 7 12 18 24    15.0 1   297.0     3.10     9.00    99.00    99.00
 7 12 19  1    15.0 1   296.0     3.10     9.00    99.00    99.00
 7 12 19  2    15.0 1   300.0     3.10     9.10    99.00    99.00
 7 12 19  3    15.0 1   310.0     2.60     9.10    99.00    99.00
 7 12 19  4    15.0 1   337.0     2.10     9.10    99.00    99.00
 7 12 19  5    15.0 1   360.0     2.60     9.10    99.00    99.00
 7 12 19  6    15.0 1   351.0     2.10     9.00    99.00    99.00
 7 12 19  7    15.0 1   330.0     1.50     8.90    99.00    99.00
 7 12 19  8    15.0 1   325.0     1.00     9.00    99.00    99.00
 7 12 19  9    15.0 1   298.0     1.00     9.10    99.00    99.00
 7 12 19 10    15.0 1   301.0     2.10     9.50    99.00    99.00
 7 12 19 11    15.0 1   308.0     2.10     9.80    99.00    99.00
 7 12 19 12    15.0 1   310.0     1.50    10.10    99.00    99.00
 7 12 19 13    15.0 1   332.0     1.00    10.30    99.00    99.00
 7 12 19 14    15.0 1    17.0     1.00    10.40    99.00    99.00
 7 12 19 15    15.0 1    71.0     0.50    10.40    99.00    99.00
 7 12 19 16    15.0 1   109.0     0.50    10.30    99.00    99.00
 7 12 19 17    15.0 1     0.0     0.00    10.10    99.00    99.00
 7 12 19 18    15.0 1     0.0     0.00     9.60    99.00    99.00
 7 12 19 19    15.0 1     0.0     0.00     9.00    99.00    99.00
 7 12 19 20    15.0 1   165.0     0.50     8.30    99.00    99.00
 7 12 19 21    15.0 1   147.0     1.00     7.40    99.00    99.00
 7 12 19 22    15.0 1   140.0     2.10     7.60    99.00    99.00
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 7 12 19 23     15.0 1   142.0      2.10      7.60     99.00     99.00
 7 12 19 24     15.0 1   140.0      2.10      7.80     99.00     99.00
 7 12 20  1     15.0 1   134.0      1.00      7.90     99.00     99.00
 7 12 20  2     15.0 1     0.0      0.00      7.90     99.00     99.00
 7 12 20  3     15.0 1     0.0      0.00      7.90     99.00     99.00
 7 12 20  4     15.0 1   126.0      0.50      8.00     99.00     99.00
 7 12 20  5     15.0 1   157.0      0.50      8.10     99.00     99.00
 7 12 20  6     15.0 1   161.0      0.50      8.30     99.00     99.00
 7 12 20  7     15.0 1   166.0      1.00      8.50     99.00     99.00
 7 12 20  8     15.0 1   171.0      1.00      8.60     99.00     99.00
 7 12 20  9     15.0 1   166.0      1.00      8.60     99.00     99.00
 7 12 20 10     15.0 1   178.0      1.50      9.00     99.00     99.00
 7 12 20 11     15.0 1   166.0      1.50      9.40     99.00     99.00
 7 12 20 12     15.0 1   173.0      1.50      9.10     99.00     99.00
 7 12 20 13     15.0 1   139.0      2.10      8.50     99.00     99.00
 7 12 20 14     15.0 1   132.0      1.50      9.30     99.00     99.00
 7 12 20 15     15.0 1    88.0      1.00     10.30     99.00     99.00
 7 12 20 16     15.0 1    60.0      1.50     10.50     99.00     99.00
 7 12 20 17     15.0 1    62.0      1.50      9.90     99.00     99.00
 7 12 20 18     15.0 1    52.0      1.50      9.10     99.00     99.00
 7 12 20 19     15.0 1   331.0      0.50      8.60     99.00     99.00
 7 12 20 20     15.0 1   299.0      2.10      8.10     99.00     99.00
 7 12 20 21     15.0 1   328.0      3.10      7.40     99.00     99.00
 7 12 20 22     15.0 1   360.0      3.60      6.90     99.00     99.00
 7 12 20 23     15.0 1    15.0      1.00      6.30     99.00     99.00
 7 12 20 24     15.0 1   360.0      0.50      6.00     99.00     99.00
 7 12 21  1     15.0 1     0.0      0.00      5.60     99.00     99.00
 7 12 21  2     15.0 1     0.0      0.00      5.50     99.00     99.00
 7 12 21  3     15.0 1   278.0      0.50      5.10     99.00     99.00
 7 12 21  4     15.0 1   256.0      1.00      4.60     99.00     99.00
 7 12 21  5     15.0 1   252.0      2.10      4.10     99.00     99.00
 7 12 21  6     15.0 1   254.0      3.60      3.60     99.00     99.00
 7 12 21  7     15.0 1   268.0      3.60      3.00     99.00     99.00
 7 12 21  8     15.0 1   270.0      2.60      2.60     99.00     99.00
 7 12 21  9     15.0 1   350.0      2.10      3.90     99.00     99.00
 7 12 21 10     15.0 1     4.0      1.50      5.30     99.00     99.00
 7 12 21 11     15.0 1   341.0      1.00      6.40     99.00     99.00
 7 12 21 12     15.0 1   320.0      1.00      7.50     99.00     99.00
 7 12 21 13     15.0 1   313.0      1.00      8.30     99.00     99.00
 7 12 21 14     15.0 1   315.0      1.00      8.90     99.00     99.00
 7 12 21 15     15.0 1   321.0      1.00      9.10     99.00     99.00
 7 12 21 16     15.0 1   322.0      1.50      8.30     99.00     99.00
 7 12 21 17     15.0 1   339.0      1.00      7.80     99.00     99.00
 7 12 21 18     15.0 1     0.0      0.00      6.80     99.00     99.00
 7 12 21 19     15.0 1     0.0      0.00      5.60     99.00     99.00
 7 12 21 20     15.0 1   150.0      0.50      4.60     99.00     99.00
 7 12 21 21     15.0 1   161.0      1.00      3.80     99.00     99.00
 7 12 21 22     15.0 1   136.0      0.50      3.00     99.00     99.00
 7 12 21 23     15.0 1     0.0      0.00      2.50     99.00     99.00
 7 12 21 24     15.0 1   284.0      0.50      2.10     99.00     99.00
 7 12 22  1     15.0 1   269.0      1.50      1.90     99.00     99.00
 7 12 22  2     15.0 1   283.0      1.50      1.60     99.00     99.00
 7 12 22  3     15.0 1   288.0      2.10      1.30     99.00     99.00
 7 12 22  4     15.0 1   282.0      1.50      1.00     99.00     99.00
 7 12 22  5     15.0 1   270.0      1.50      0.60     99.00     99.00
 7 12 22  6     15.0 1   282.0      2.10      0.50     99.00     99.00
 7 12 22  7     15.0 1   295.0      2.10      0.30     99.00     99.00
 7 12 22  8     15.0 1   300.0      2.10      0.00     99.00     99.00
 7 12 22  9     15.0 1   322.0      2.60      1.40     99.00     99.00
 7 12 22 10     15.0 1   316.0      2.10      3.10     99.00     99.00
 7 12 22 11     15.0 1   315.0      1.50      4.80     99.00     99.00
 7 12 22 12     15.0 1   296.0      1.00      6.60     99.00     99.00
 7 12 22 13     15.0 1   302.0      0.50      7.60     99.00     99.00
 7 12 22 14     15.0 1   324.0      0.50      8.50     99.00     99.00
 7 12 22 15     15.0 1   330.0      0.50      9.00     99.00     99.00
 7 12 22 16     15.0 1     4.0      0.50      9.00     99.00     99.00
 7 12 22 17     15.0 1    45.0      0.50      8.30     99.00     99.00
 7 12 22 18     15.0 1     0.0      0.00      7.10     99.00     99.00
 7 12 22 19     15.0 1     0.0      0.00      6.10     99.00     99.00
 7 12 22 20     15.0 1     0.0      0.00      5.30     99.00     99.00
 7 12 22 21     15.0 1     0.0      0.00      4.60     99.00     99.00
 7 12 22 22     15.0 1     7.0      0.50      4.10     99.00     99.00
 7 12 22 23     15.0 1   337.0      0.50      3.90     99.00     99.00
 7 12 22 24     15.0 1   318.0      0.50      3.50     99.00     99.00
 7 12 23  1     15.0 1   309.0      0.50      3.00     99.00     99.00
 7 12 23  2     15.0 1   290.0      0.50      2.60     99.00     99.00
 7 12 23  3     15.0 1     0.0      0.00      2.30     99.00     99.00
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 7 12 23  4    15.0 1   120.0     0.50     1.90    99.00    99.00
 7 12 23  5    15.0 1     0.0     0.00     1.50    99.00    99.00
 7 12 23  6    15.0 1     0.0     0.00     1.30    99.00    99.00
 7 12 23  7    15.0 1    99.0     0.50     0.90    99.00    99.00
 7 12 23  8    15.0 1    97.0     0.50     0.60    99.00    99.00
 7 12 23  9    15.0 1     0.0     0.00     2.10    99.00    99.00
 7 12 23 10    15.0 1     0.0     0.00     5.50    99.00    99.00
 7 12 23 11    15.0 1     0.0     0.00     7.30    99.00    99.00
 7 12 23 12    15.0 1   305.0     0.50     9.00    99.00    99.00
 7 12 23 13    15.0 1   309.0     1.00    10.60    99.00    99.00
 7 12 23 14    15.0 1   326.0     1.00    11.30    99.00    99.00
 7 12 23 15    15.0 1   350.0     1.50    11.60    99.00    99.00
 7 12 23 16    15.0 1     8.0     0.50    11.60    99.00    99.00
 7 12 23 17    15.0 1   128.0     0.50    10.80    99.00    99.00
 7 12 23 18    15.0 1   144.0     0.50     9.60    99.00    99.00
 7 12 23 19    15.0 1   146.0     0.50     8.60    99.00    99.00
 7 12 23 20    15.0 1     0.0     0.00     7.80    99.00    99.00
 7 12 23 21    15.0 1    76.0     0.50     6.90    99.00    99.00
 7 12 23 22    15.0 1    77.0     0.50     6.30    99.00    99.00
 7 12 23 23    15.0 1     0.0     0.00     5.90    99.00    99.00
 7 12 23 24    15.0 1     0.0     0.00     5.50    99.00    99.00
 7 12 24  1    15.0 1     0.0     0.00     5.60    99.00    99.00
 7 12 24  2    15.0 1     0.0     0.00     5.60    99.00    99.00
 7 12 24  3    15.0 1     0.0     0.00     5.60    99.00    99.00
 7 12 24  4    15.0 1     0.0     0.00     5.40    99.00    99.00
 7 12 24  5    15.0 1     0.0     0.00     5.10    99.00    99.00
 7 12 24  6    15.0 1     0.0     0.00     4.80    99.00    99.00
 7 12 24  7    15.0 1     0.0     0.00     4.50    99.00    99.00
 7 12 24  8    15.0 1   242.0     0.50     4.30    99.00    99.00
 7 12 24  9    15.0 1   298.0     0.50     5.60    99.00    99.00
 7 12 24 10    15.0 1   324.0     1.00     8.30    99.00    99.00
 7 12 24 11    15.0 1   328.0     1.50    10.10    99.00    99.00
 7 12 24 12    15.0 1   333.0     1.50    11.10    99.00    99.00
 7 12 24 13    15.0 1   327.0     2.10    12.10    99.00    99.00
 7 12 24 14    15.0 1   327.0     2.60    12.10    99.00    99.00
 7 12 24 15    15.0 1   245.0     0.50    11.90    99.00    99.00
 7 12 24 16    15.0 1   184.0     1.50    11.80    99.00    99.00
 7 12 24 17    15.0 1   179.0     2.60    11.50    99.00    99.00
 7 12 24 18    15.0 1     0.0     0.00    11.60    99.00    99.00
 7 12 24 19    15.0 1    25.0     0.50    11.10    99.00    99.00
 7 12 24 20    15.0 1     0.0     0.00    10.60    99.00    99.00
 7 12 24 21    15.0 1   250.0     1.00    10.00    99.00    99.00
 7 12 24 22    15.0 1   225.0     3.60     8.60    99.00    99.00
 7 12 24 23    15.0 1   231.0     2.60     7.10    99.00    99.00
 7 12 24 24    15.0 1   303.0     1.00     6.10    99.00    99.00
 7 12 25  1    15.0 1   350.0     0.50     5.50    99.00    99.00
 7 12 25  2    15.0 1   337.0     0.50     5.00    99.00    99.00
 7 12 25  3    15.0 1   310.0     0.50     4.50    99.00    99.00
 7 12 25  4    15.0 1   300.0     1.00     3.90    99.00    99.00
 7 12 25  5    15.0 1   289.0     1.50     3.30    99.00    99.00
 7 12 25  6    15.0 1   291.0     2.10     2.80    99.00    99.00
 7 12 25  7    15.0 1   279.0     2.10     2.30    99.00    99.00
 7 12 25  8    15.0 1   277.0     2.10     1.90    99.00    99.00
 7 12 25  9    15.0 1   305.0     1.50     2.90    99.00    99.00
 7 12 25 10    15.0 1   299.0     0.50     4.60    99.00    99.00
 7 12 25 11    15.0 1   246.0     0.50     6.40    99.00    99.00
 7 12 25 12    15.0 1   264.0     1.00     7.90    99.00    99.00
 7 12 25 13    15.0 1   280.0     1.50     8.90    99.00    99.00
 7 12 25 14    15.0 1   309.0     1.50     9.80    99.00    99.00
 7 12 25 15    15.0 1   340.0     2.10    10.10    99.00    99.00
 7 12 25 16    15.0 1     0.0     0.00     9.90    99.00    99.00
 7 12 25 17    15.0 1    22.0     1.00     9.10    99.00    99.00
 7 12 25 18    15.0 1     0.0     0.00     8.10    99.00    99.00
 7 12 25 19    15.0 1     0.0     0.00     6.90    99.00    99.00
 7 12 25 20    15.0 1     0.0     0.00     5.90    99.00    99.00
 7 12 25 21    15.0 1     0.0     0.00     4.90    99.00    99.00
 7 12 25 22    15.0 1     0.0     0.00     4.30    99.00    99.00
 7 12 25 23    15.0 1     0.0     0.00     3.90    99.00    99.00
 7 12 25 24    15.0 1     0.0     0.00     3.50    99.00    99.00
 7 12 26  1    15.0 1   286.0     0.50     3.10    99.00    99.00
 7 12 26  2    15.0 1   279.0     1.00     2.90    99.00    99.00
 7 12 26  3    15.0 1   287.0     1.50     2.60    99.00    99.00
 7 12 26  4    15.0 1   298.0     1.50     2.10    99.00    99.00
 7 12 26  5    15.0 1   299.0     1.50     1.60    99.00    99.00
 7 12 26  6    15.0 1   312.0     1.00     1.30    99.00    99.00
 7 12 26  7    15.0 1   297.0     1.00     0.80    99.00    99.00
 7 12 26  8    15.0 1   303.0     1.00     0.50    99.00    99.00
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 7 12 26  9    15.0 1   328.0     1.50     1.80    99.00    99.00
 7 12 26 10    15.0 1   344.0     1.50     3.60    99.00    99.00
 7 12 26 11    15.0 1   337.0     2.60     5.40    99.00    99.00
 7 12 26 12    15.0 1   338.0     3.10     6.60    99.00    99.00
 7 12 26 13    15.0 1   339.0     4.10     8.00    99.00    99.00
 7 12 26 14    15.0 1   337.0     5.10     8.90    99.00    99.00
 7 12 26 15    15.0 1   333.0     6.70     9.10    99.00    99.00
 7 12 26 16    15.0 1   328.0     5.70     7.50    99.00    99.00
 7 12 26 17    15.0 1   308.0     4.10     6.10    99.00    99.00
 7 12 26 18    15.0 1   302.0     3.10     5.50    99.00    99.00
 7 12 26 19    15.0 1   292.0     2.10     5.10    99.00    99.00
 7 12 26 20    15.0 1   272.0     0.50     4.50    99.00    99.00
 7 12 26 21    15.0 1   205.0     0.50     4.10    99.00    99.00
 7 12 26 22    15.0 1   215.0     0.50     3.80    99.00    99.00
 7 12 26 23    15.0 1   263.0     0.50     3.40    99.00    99.00
 7 12 26 24    15.0 1   329.0     0.50     2.60    99.00    99.00
 7 12 27  1    15.0 1    30.0     0.50     2.30    99.00    99.00
 7 12 27  2    15.0 1    42.0     0.50     1.90    99.00    99.00
 7 12 27  3    15.0 1   354.0     0.50     1.50    99.00    99.00
 7 12 27  4    15.0 1   325.0     0.50     1.10    99.00    99.00
 7 12 27  5    15.0 1   311.0     1.00     0.60    99.00    99.00
 7 12 27  6    15.0 1   305.0     1.00     0.40    99.00    99.00
 7 12 27  7    15.0 1   286.0     1.00     0.10    99.00    99.00
 7 12 27  8    15.0 1   301.0     1.00    -0.30    99.00    99.00
 7 12 27  9    15.0 1   344.0     1.00     0.90    99.00    99.00
 7 12 27 10    15.0 1   352.0     1.50     2.80    99.00    99.00
 7 12 27 11    15.0 1   331.0     1.00     3.90    99.00    99.00
 7 12 27 12    15.0 1   318.0     1.00     4.80    99.00    99.00
 7 12 27 13    15.0 1   333.0     0.50     5.60    99.00    99.00
 7 12 27 14    15.0 1     0.0     0.00     6.00    99.00    99.00
 7 12 27 15    15.0 1     0.0     0.00     6.10    99.00    99.00
 7 12 27 16    15.0 1   140.0     0.50     5.90    99.00    99.00
 7 12 27 17    15.0 1   136.0     1.00     5.40    99.00    99.00
 7 12 27 18    15.0 1   141.0     1.50     4.60    99.00    99.00
 7 12 27 19    15.0 1   141.0     2.60     4.00    99.00    99.00
 7 12 27 20    15.0 1   150.0     3.10     3.30    99.00    99.00
 7 12 27 21    15.0 1   148.0     3.10     2.60    99.00    99.00
 7 12 27 22    15.0 1   140.0     3.10     2.40    99.00    99.00
 7 12 27 23    15.0 1   127.0     3.10     2.10    99.00    99.00
 7 12 27 24    15.0 1   130.0     2.60     2.10    99.00    99.00
 7 12 28  1    15.0 1   132.0     2.60     1.90    99.00    99.00
 7 12 28  2    15.0 1   145.0     2.60     1.80    99.00    99.00
 7 12 28  3    15.0 1   138.0     2.10     1.40    99.00    99.00
 7 12 28  4    15.0 1   128.0     1.50     1.00    99.00    99.00
 7 12 28  5    15.0 1   124.0     1.00     0.60    99.00    99.00
 7 12 28  6    15.0 1   106.0     1.00     0.30    99.00    99.00
 7 12 28  7    15.0 1   113.0     1.00     0.10    99.00    99.00
 7 12 28  8    15.0 1   106.0     0.50     0.00    99.00    99.00
 7 12 28  9    15.0 1   113.0     0.50     0.60    99.00    99.00
 7 12 28 10    15.0 1   144.0     0.50     3.90    99.00    99.00
 7 12 28 11    15.0 1   162.0     0.50     6.00    99.00    99.00
 7 12 28 12    15.0 1   156.0     0.50     7.50    99.00    99.00
 7 12 28 13    15.0 1   156.0     0.50     8.60    99.00    99.00
 7 12 28 14    15.0 1     0.0     0.00     9.30    99.00    99.00
 7 12 28 15    15.0 1     0.0     0.00     9.60    99.00    99.00
 7 12 28 16    15.0 1   310.0     0.50     9.40    99.00    99.00
 7 12 28 17    15.0 1   345.0     0.50     8.60    99.00    99.00
 7 12 28 18    15.0 1    21.0     0.50     7.50    99.00    99.00
 7 12 28 19    15.0 1    34.0     1.00     6.50    99.00    99.00
 7 12 28 20    15.0 1    38.0     1.00     5.60    99.00    99.00
 7 12 28 21    15.0 1     0.0     0.00     4.80    99.00    99.00
 7 12 28 22    15.0 1     0.0     0.00     4.10    99.00    99.00
 7 12 28 23    15.0 1   114.0     0.50     3.40    99.00    99.00
 7 12 28 24    15.0 1   118.0     0.50     2.90    99.00    99.00
 7 12 29  1    15.0 1   121.0     1.00     2.60    99.00    99.00
 7 12 29  2    15.0 1   112.0     0.50     2.30    99.00    99.00
 7 12 29  3    15.0 1   101.0     0.50     1.90    99.00    99.00
 7 12 29  4    15.0 1     1.0     0.50     1.30    99.00    99.00
 7 12 29  5    15.0 1   318.0     0.50     0.60    99.00    99.00
 7 12 29  6    15.0 1   301.0     0.50     0.10    99.00    99.00
 7 12 29  7    15.0 1     0.0     0.00     0.10    99.00    99.00
 7 12 29  8    15.0 1     0.0     0.00     0.10    99.00    99.00
 7 12 29  9    15.0 1     0.0     0.00     1.40    99.00    99.00
 7 12 29 10    15.0 1     0.0     0.00     3.10    99.00    99.00
 7 12 29 11    15.0 1     0.0     0.00     4.90    99.00    99.00
 7 12 29 12    15.0 1     0.0     0.00     7.40    99.00    99.00
 7 12 29 13    15.0 1     0.0     0.00     9.30    99.00    99.00
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 7 12 29 14    15.0 1     0.0     0.00    10.40    99.00    99.00
 7 12 29 15    15.0 1     0.0     0.00    10.90    99.00    99.00
 7 12 29 16    15.0 1     0.0     0.00    11.00    99.00    99.00
 7 12 29 17    15.0 1     0.0     0.00    10.30    99.00    99.00
 7 12 29 18    15.0 1   101.0     0.50     9.30    99.00    99.00
 7 12 29 19    15.0 1   116.0     1.00     8.40    99.00    99.00
 7 12 29 20    15.0 1   116.0     1.50     7.60    99.00    99.00
 7 12 29 21    15.0 1   118.0     2.10     7.10    99.00    99.00
 7 12 29 22    15.0 1   121.0     2.10     6.60    99.00    99.00
 7 12 29 23    15.0 1   116.0     2.10     6.10    99.00    99.00
 7 12 29 24    15.0 1   116.0     1.50     5.50    99.00    99.00
 7 12 30  1    15.0 1     0.0     0.00     5.00    99.00    99.00
 7 12 30  2    15.0 1   300.0     1.00     4.40    99.00    99.00
 7 12 30  3    15.0 1   287.0     1.00     4.60    99.00    99.00
 7 12 30  4    15.0 1     0.0     0.00     5.00    99.00    99.00
 7 12 30  5    15.0 1     0.0     0.00     5.30    99.00    99.00
 7 12 30  6    15.0 1   147.0     0.50     5.50    99.00    99.00
 7 12 30  7    15.0 1     0.0     0.00     5.60    99.00    99.00
 7 12 30  8    15.0 1   129.0     0.50     5.90    99.00    99.00
 7 12 30  9    15.0 1   129.0     1.00     6.10    99.00    99.00
 7 12 30 10    15.0 1   164.0     0.50     7.10    99.00    99.00
 7 12 30 11    15.0 1   234.0     0.50     8.30    99.00    99.00
 7 12 30 12    15.0 1   266.0     1.00     8.60    99.00    99.00
 7 12 30 13    15.0 1   288.0     1.00     8.90    99.00    99.00
 7 12 30 14    15.0 1   315.0     1.50     8.90    99.00    99.00
 7 12 30 15    15.0 1   321.0     1.50     8.80    99.00    99.00
 7 12 30 16    15.0 1   332.0     1.50     8.50    99.00    99.00
 7 12 30 17    15.0 1   351.0     1.00     8.10    99.00    99.00
 7 12 30 18    15.0 1   338.0     1.00     8.10    99.00    99.00
 7 12 30 19    15.0 1   318.0     0.50     8.00    99.00    99.00
 7 12 30 20    15.0 1   320.0     0.50     8.00    99.00    99.00
 7 12 30 21    15.0 1   317.0     0.50     7.90    99.00    99.00
 7 12 30 22    15.0 1   341.0     0.50     7.90    99.00    99.00
 7 12 30 23    15.0 1   318.0     0.50     7.90    99.00    99.00
 7 12 30 24    15.0 1   248.0     0.50     7.50    99.00    99.00
 7 12 31  1    15.0 1   257.0     1.00     5.90    99.00    99.00
 7 12 31  2    15.0 1   252.0     1.00     5.40    99.00    99.00
 7 12 31  3    15.0 1   265.0     1.50     5.40    99.00    99.00
 7 12 31  4    15.0 1   271.0     1.50     5.10    99.00    99.00
 7 12 31  5    15.0 1   278.0     1.50     4.60    99.00    99.00
 7 12 31  6    15.0 1   294.0     1.50     4.10    99.00    99.00
 7 12 31  7    15.0 1   293.0     1.50     3.10    99.00    99.00
 7 12 31  8    15.0 1   294.0     1.50     2.50    99.00    99.00
 7 12 31  9    15.0 1   293.0     1.00     2.30    99.00    99.00
 7 12 31 10    15.0 1   299.0     0.50     2.80    99.00    99.00
 7 12 31 11    15.0 1   333.0     0.50     4.30    99.00    99.00
 7 12 31 12    15.0 1     0.0     0.00     5.60    99.00    99.00
 7 12 31 13    15.0 1    23.0     2.10     6.90    99.00    99.00
 7 12 31 14    15.0 1    21.0     2.10     8.00    99.00    99.00
 7 12 31 15    15.0 1    15.0     2.60     8.60    99.00    99.00
 7 12 31 16    15.0 1     4.0     2.10    13.10    99.00    99.00
 7 12 31 17    15.0 1    10.0     2.10    12.40    99.00    99.00
 7 12 31 18    15.0 1     7.0     2.10    11.30    99.00    99.00
 7 12 31 19    15.0 1    43.0     2.10    10.30    99.00    99.00
 7 12 31 20    15.0 1    67.0     1.50     9.50    99.00    99.00
 7 12 31 21    15.0 1    99.0     1.50     8.80    99.00    99.00
 7 12 31 22    15.0 1   102.0     1.50     8.30    99.00    99.00
 7 12 31 23    15.0 1   104.0     1.50     8.30    99.00    99.00
 7 12 31 24    15.0 1    88.0     1.50     8.30    99.00    99.00
 8  1  1  1    15.0 1    81.0     1.50     8.10    99.00    99.00
 8  1  1  2    15.0 1    68.0     1.50     7.60    99.00    99.00
 8  1  1  3    15.0 1    54.0     2.10     6.60    99.00    99.00
 8  1  1  4    15.0 1    33.0     2.60     5.10    99.00    99.00
 8  1  1  5    15.0 1    33.0     3.10     3.90    99.00    99.00
 8  1  1  6    15.0 1    22.0     2.60     3.40    99.00    99.00
 8  1  1  7    15.0 1    25.0     2.60     3.10    99.00    99.00
 8  1  1  8    15.0 1    33.0     2.10     2.90    99.00    99.00
 8  1  1  9    15.0 1    27.0     1.50     4.60    99.00    99.00
 8  1  1 10    15.0 1    11.0     1.50     7.80    99.00    99.00
 8  1  1 11    15.0 1    14.0     2.10    10.00    99.00    99.00
 8  1  1 12    15.0 1     0.0     0.00    11.40    99.00    99.00
 8  1  1 13    15.0 1    13.0     2.60    12.60    99.00    99.00
 8  1  1 14    15.0 1     9.0     3.60    12.60    99.00    99.00
 8  1  1 15    15.0 1    12.0     3.10    12.10    99.00    99.00
 8  1  1 16    15.0 1    14.0     3.10    11.50    99.00    99.00
 8  1  1 17    15.0 1    31.0     3.10    10.60    99.00    99.00
 8  1  1 18    15.0 1    27.0     2.10    10.10    99.00    99.00
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 8   1   1 19     15.0 1    44.0     1.50     9.60    99.00    99.00
 8   1   1 20     15.0 1    37.0     1.50     9.30    99.00    99.00
 8   1   1 21     15.0 1    40.0     1.50     8.90    99.00    99.00
 8   1   1 22     15.0 1    42.0     2.10     8.60    99.00    99.00
 8   1   1 23     15.0 1    40.0     2.60     8.50    99.00    99.00
 8   1   1 24     15.0 1    30.0     3.10     8.30    99.00    99.00
 8   1   2  1     15.0 1    26.0     3.60     8.00    99.00    99.00
 8   1   2  2     15.0 1    32.0     4.10     7.60    99.00    99.00
 8   1   2  3     15.0 1    32.0     3.60     7.30    99.00    99.00
 8   1   2  4     15.0 1    40.0     3.10     7.30    99.00    99.00
 8   1   2  5     15.0 1    36.0     3.10     7.40    99.00    99.00
 8   1   2  6     15.0 1    27.0     3.10     7.40    99.00    99.00
 8   1   2  7     15.0 1    29.0     2.60     7.30    99.00    99.00
 8   1   2  8     15.0 1    16.0     2.60     7.10    99.00    99.00
 8   1   2  9     15.0 1    20.0     2.60     8.10    99.00    99.00
 8   1   2 10     15.0 1    11.0     2.60    11.40    99.00    99.00
 8   1   2 11     15.0 1     5.0     2.60    12.60    99.00    99.00
 8   1   2 12     15.0 1   351.0     3.10    14.00    99.00    99.00
 8   1   2 13     15.0 1   339.0     3.10    14.90    99.00    99.00
 8   1   2 14     15.0 1   337.0     3.60    14.60    99.00    99.00
 8   1   2 15     15.0 1   350.0     3.60    13.90    99.00    99.00
 8   1   2 16     15.0 1   354.0     3.60    13.10    99.00    99.00
 8   1   2 17     15.0 1     0.0     0.00    12.60    99.00    99.00
 8   1   2 18     15.0 1     1.0     3.10    12.30    99.00    99.00
 8   1   2 19     15.0 1   342.0     2.60    12.00    99.00    99.00
 8   1   2 20     15.0 1   355.0     2.60    11.60    99.00    99.00
 8   1   2 21     15.0 1   354.0     2.60    11.40    99.00    99.00
 8   1   2 22     15.0 1   355.0     2.60    11.10    99.00    99.00
 8   1   2 23     15.0 1   337.0     2.60    11.00    99.00    99.00
 8   1   2 24     15.0 1   348.0     2.60    10.80    99.00    99.00
 8   1   3  1     15.0 1   360.0     2.10    10.80    99.00    99.00
 8   1   3  2     15.0 1     0.0     0.00    10.60    99.00    99.00
 8   1   3  3     15.0 1     4.0     1.50    10.50    99.00    99.00
 8   1   3  4     15.0 1   350.0     1.50    10.40    99.00    99.00
 8   1   3  5     15.0 1   347.0     1.50    10.30    99.00    99.00
 8   1   3  6     15.0 1   339.0     1.50    10.10    99.00    99.00
 8   1   3  7     15.0 1   336.0     1.50    10.10    99.00    99.00
 8   1   3  8     15.0 1   329.0     1.50    10.10    99.00    99.00
 8   1   3  9     15.0 1   318.0     1.50    10.30    99.00    99.00
 8   1   3 10     15.0 1   314.0     2.60    10.80    99.00    99.00
 8   1   3 11     15.0 1   322.0     3.10    11.60    99.00    99.00
 8   1   3 12     15.0 1   318.0     4.10    12.60    99.00    99.00
 8   1   3 13     15.0 1   331.0     4.60    12.50    99.00    99.00
 8   1   3 14     15.0 1   352.0     4.10    11.80    99.00    99.00
 8   1   3 15     15.0 1    27.0     3.10    11.10    99.00    99.00
 8   1   3 16     15.0 1    60.0     3.60    10.90    99.00    99.00
 8   1   3 17     15.0 1    69.0     3.10    10.80    99.00    99.00
 8   1   3 18     15.0 1    81.0     3.10    10.90    99.00    99.00
 8   1   3 19     15.0 1    87.0     3.10    11.10    99.00    99.00
 8   1   3 20     15.0 1    88.0     3.10    11.40    99.00    99.00
 8   1   3 21     15.0 1   107.0     2.60    11.80    99.00    99.00
 8   1   3 22     15.0 1   119.0     1.50    12.10    99.00    99.00
 8   1   3 23     15.0 1   141.0     0.50    12.30    99.00    99.00
 8   1   3 24     15.0 1   137.0     0.50    12.10    99.00    99.00
 8   1   4  1     15.0 1   106.0     1.50    12.10    99.00    99.00
 8   1   4  2     15.0 1   116.0     3.10    12.30    99.00    99.00
 8   1   4  3     15.0 1   128.0     4.10    12.50    99.00    99.00
 8   1   4  4     15.0 1   129.0     4.10    12.60    99.00    99.00
 8   1   4  5     15.0 1   141.0     5.10    12.60    99.00    99.00
 8   1   4  6     15.0 1   142.0     6.20    12.90    99.00    99.00
 8   1   4  7     15.0 1   136.0     6.20    13.10    99.00    99.00
 8   1   4  8     15.0 1   138.0     6.20    13.40    99.00    99.00
 8   1   4  9     15.0 1   136.0     5.70    13.60    99.00    99.00
 8   1   4 10     15.0 1   137.0     5.70    14.00    99.00    99.00
 8   1   4 11     15.0 1   137.0     6.20    14.60    99.00    99.00
 8   1   4 12     15.0 1   133.0     6.70    14.90    99.00    99.00
 8   1   4 13     15.0 1   135.0     7.20    14.60    99.00    99.00
 8   1   4 14     15.0 1   132.0     6.70    14.50    99.00    99.00
 8   1   4 15     15.0 1   131.0     6.20    14.40    99.00    99.00
 8   1   4 16     15.0 1   130.0     5.70    14.40    99.00    99.00
 8   1   4 17     15.0 1   133.0     5.10    14.50    99.00    99.00
 8   1   4 18     15.0 1   149.0     5.10    14.60    99.00    99.00
 8   1   4 19     15.0 1   167.0     4.60    14.90    99.00    99.00
 8   1   4 20     15.0 1   189.0     4.60    15.00    99.00    99.00
 8   1   4 21     15.0 1   237.0     4.60    14.80    99.00    99.00
 8   1   4 22     15.0 1   269.0     5.70    14.10    99.00    99.00
 8   1   4 23     15.0 1   272.0     4.10    13.60    99.00    99.00
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 8  1  4 24    15.0 1   278.0     2.10    13.30    99.00    99.00
 8  1  5  1    15.0 1   225.0     1.50    12.80    99.00    99.00
 8  1  5  2    15.0 1   214.0     2.60    12.40    99.00    99.00
 8  1  5  3    15.0 1   217.0     3.10    12.10    99.00    99.00
 8  1  5  4    15.0 1   220.0     3.10    11.90    99.00    99.00
 8  1  5  5    15.0 1   212.0     3.10    11.60    99.00    99.00
 8  1  5  6    15.0 1   205.0     3.10    11.50    99.00    99.00
 8  1  5  7    15.0 1   202.0     2.60    11.30    99.00    99.00
 8  1  5  8    15.0 1   195.0     2.60    11.10    99.00    99.00
 8  1  5  9    15.0 1   169.0     1.50    11.30    99.00    99.00
 8  1  5 10    15.0 1   138.0     1.50    11.90    99.00    99.00
 8  1  5 11    15.0 1   218.0     2.60    14.00    99.00    99.00
 8  1  5 12    15.0 1   229.0     2.10    15.30    99.00    99.00
 8  1  5 13    15.0 1   218.0     2.10    16.10    99.00    99.00
 8  1  5 14    15.0 1   300.0     0.50    16.10    99.00    99.00
 8  1  5 15    15.0 1    75.0     1.50    16.00    99.00    99.00
 8  1  5 16    15.0 1    78.0     2.10    14.60    99.00    99.00
 8  1  5 17    15.0 1    99.0     3.10    14.10    99.00    99.00
 8  1  5 18    15.0 1   116.0     3.10    13.50    99.00    99.00
 8  1  5 19    15.0 1   127.0     3.10    13.10    99.00    99.00
 8  1  5 20    15.0 1   137.0     3.10    12.60    99.00    99.00
 8  1  5 21    15.0 1   142.0     3.10    12.50    99.00    99.00
 8  1  5 22    15.0 1   140.0     3.10    12.40    99.00    99.00
 8  1  5 23    15.0 1   158.0     2.10    12.30    99.00    99.00
 8  1  5 24    15.0 1   222.0     1.50    12.10    99.00    99.00
 8  1  6  1    15.0 1   266.0     3.10    11.60    99.00    99.00
 8  1  6  2    15.0 1   273.0     4.60    10.90    99.00    99.00
 8  1  6  3    15.0 1   275.0     4.10    10.40    99.00    99.00
 8  1  6  4    15.0 1   273.0     3.60     9.60    99.00    99.00
 8  1  6  5    15.0 1   272.0     3.10     9.00    99.00    99.00
 8  1  6  6    15.0 1   256.0     2.60     8.50    99.00    99.00
 8  1  6  7    15.0 1   248.0     2.10     8.00    99.00    99.00
 8  1  6  8    15.0 1   262.0     0.50     8.00    99.00    99.00
 8  1  6  9    15.0 1   328.0     1.00     9.10    99.00    99.00
 8  1  6 10    15.0 1   338.0     1.50    10.60    99.00    99.00
 8  1  6 11    15.0 1   355.0     1.50    11.60    99.00    99.00
 8  1  6 12    15.0 1     0.0     0.00    12.30    99.00    99.00
 8  1  6 13    15.0 1   171.0     0.50    12.60    99.00    99.00
 8  1  6 14    15.0 1   185.0     2.10    12.40    99.00    99.00
 8  1  6 15    15.0 1   182.0     3.10    11.80    99.00    99.00
 8  1  6 16    15.0 1   172.0     3.10    11.40    99.00    99.00
 8  1  6 17    15.0 1   172.0     2.60    10.90    99.00    99.00
 8  1  6 18    15.0 1   175.0     2.60    10.60    99.00    99.00
 8  1  6 19    15.0 1   158.0     2.10    10.50    99.00    99.00
 8  1  6 20    15.0 1   141.0     1.50    10.30    99.00    99.00
 8  1  6 21    15.0 1   122.0     1.50    10.10    99.00    99.00
 8  1  6 22    15.0 1   106.0     2.10     9.90    99.00    99.00
 8  1  6 23    15.0 1   102.0     2.10     9.80    99.00    99.00
 8  1  6 24    15.0 1    86.0     1.50     9.60    99.00    99.00
 8  1  7  1    15.0 1    58.0     1.50     9.60    99.00    99.00
 8  1  7  2    15.0 1    23.0     1.50     9.50    99.00    99.00
 8  1  7  3    15.0 1   350.0     1.50     9.30    99.00    99.00
 8  1  7  4    15.0 1   325.0     1.00     9.10    99.00    99.00
 8  1  7  5    15.0 1   303.0     2.60     9.00    99.00    99.00
 8  1  7  6    15.0 1   306.0     4.60     8.60    99.00    99.00
 8  1  7  7    15.0 1   329.0     6.20     8.40    99.00    99.00
 8  1  7  8    15.0 1   334.0     6.70     7.60    99.00    99.00
 8  1  7  9    15.0 1   340.0     6.70     8.00    99.00    99.00
 8  1  7 10    15.0 1   344.0     6.20     8.80    99.00    99.00
 8  1  7 11    15.0 1   343.0     5.70     9.60    99.00    99.00
 8  1  7 12    15.0 1   342.0     5.70    10.10    99.00    99.00
 8  1  7 13    15.0 1   341.0     5.10    10.60    99.00    99.00
 8  1  7 14    15.0 1   336.0     4.60    11.00    99.00    99.00
 8  1  7 15    15.0 1   337.0     4.10    11.10    99.00    99.00
 8  1  7 16    15.0 1   335.0     3.10    10.80    99.00    99.00
 8  1  7 17    15.0 1   334.0     3.60     9.80    99.00    99.00
 8  1  7 18    15.0 1   334.0     3.60     8.60    99.00    99.00
 8  1  7 19    15.0 1   341.0     3.10     8.10    99.00    99.00
 8  1  7 20    15.0 1   352.0     2.10     7.50    99.00    99.00
 8  1  7 21    15.0 1     8.0     1.00     6.80    99.00    99.00
 8  1  7 22    15.0 1    72.0     0.50     6.10    99.00    99.00
 8  1  7 23    15.0 1   101.0     0.50     5.30    99.00    99.00
 8  1  7 24    15.0 1   115.0     0.50     4.60    99.00    99.00
 8  1  8  1    15.0 1   119.0     1.00     4.00    99.00    99.00
 8  1  8  2    15.0 1   141.0     2.10     3.60    99.00    99.00
 8  1  8  3    15.0 1   148.0     2.60     3.50    99.00    99.00
 8  1  8  4    15.0 1   155.0     1.50     3.10    99.00    99.00
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 8  1  8  5    15.0 1   137.0     0.50     2.90    99.00    99.00
 8  1  8  6    15.0 1   125.0     0.50     2.80    99.00    99.00
 8  1  8  7    15.0 1    85.0     0.50     3.00    99.00    99.00
 8  1  8  8    15.0 1    71.0     0.50     3.10    99.00    99.00
 8  1  8  9    15.0 1    60.0     1.00     3.80    99.00    99.00
 8  1  8 10    15.0 1    40.0     0.50     5.30    99.00    99.00
 8  1  8 11    15.0 1    19.0     1.00     6.60    99.00    99.00
 8  1  8 12    15.0 1    27.0     1.00     7.40    99.00    99.00
 8  1  8 13    15.0 1    49.0     1.00     8.00    99.00    99.00
 8  1  8 14    15.0 1    74.0     1.50     8.10    99.00    99.00
 8  1  8 15    15.0 1    92.0     1.50     8.10    99.00    99.00
 8  1  8 16    15.0 1   119.0     2.10     7.90    99.00    99.00
 8  1  8 17    15.0 1   128.0     2.10     7.60    99.00    99.00
 8  1  8 18    15.0 1   110.0     2.10     7.40    99.00    99.00
 8  1  8 19    15.0 1    93.0     2.10     7.40    99.00    99.00
 8  1  8 20    15.0 1    92.0     1.50     7.60    99.00    99.00
 8  1  8 21    15.0 1   123.0     1.50     7.80    99.00    99.00
 8  1  8 22    15.0 1   198.0     1.00     7.90    99.00    99.00
 8  1  8 23    15.0 1   240.0     1.50     7.60    99.00    99.00
 8  1  8 24    15.0 1    34.0     0.50     6.60    99.00    99.00
 8  1  9  1    15.0 1    85.0     2.10     6.30    99.00    99.00
 8  1  9  2    15.0 1   106.0     2.60     6.60    99.00    99.00
 8  1  9  3    15.0 1   136.0     2.60     6.80    99.00    99.00
 8  1  9  4    15.0 1   174.0     1.00     6.50    99.00    99.00
 8  1  9  5    15.0 1   156.0     0.50     6.30    99.00    99.00
 8  1  9  6    15.0 1     0.0     0.00     6.10    99.00    99.00
 8  1  9  7    15.0 1     0.0     0.00     6.00    99.00    99.00
 8  1  9  8    15.0 1     0.0     0.00     6.10    99.00    99.00
 8  1  9  9    15.0 1   280.0     0.50     6.50    99.00    99.00
 8  1  9 10    15.0 1   294.0     1.00     7.10    99.00    99.00
 8  1  9 11    15.0 1   291.0     1.00     7.60    99.00    99.00
 8  1  9 12    15.0 1   297.0     0.50     8.00    99.00    99.00
 8  1  9 13    15.0 1   344.0     0.50     8.40    99.00    99.00
 8  1  9 14    15.0 1   355.0     0.50     9.40    99.00    99.00
 8  1  9 15    15.0 1   350.0     1.50     9.60    99.00    99.00
 8  1  9 16    15.0 1   333.0     1.50     9.80    99.00    99.00
 8  1  9 17    15.0 1   341.0     2.60     9.10    99.00    99.00
 8  1  9 18    15.0 1     4.0     3.10     7.80    99.00    99.00
 8  1  9 19    15.0 1    16.0     2.10     6.80    99.00    99.00
 8  1  9 20    15.0 1    21.0     1.00     5.60    99.00    99.00
 8  1  9 21    15.0 1    19.0     0.50     4.90    99.00    99.00
 8  1  9 22    15.0 1    10.0     1.00     5.30    99.00    99.00
 8  1  9 23    15.0 1    14.0     1.50     5.50    99.00    99.00
 8  1  9 24    15.0 1     5.0     1.50     5.50    99.00    99.00
 8  1 10  1    15.0 1   351.0     1.50     5.30    99.00    99.00
 8  1 10  2    15.0 1     3.0     1.00     5.10    99.00    99.00
 8  1 10  3    15.0 1    60.0     0.50     4.80    99.00    99.00
 8  1 10  4    15.0 1   115.0     0.50     4.60    99.00    99.00
 8  1 10  5    15.0 1   138.0     0.50     4.50    99.00    99.00
 8  1 10  6    15.0 1   155.0     1.00     4.40    99.00    99.00
 8  1 10  7    15.0 1   154.0     1.00     4.30    99.00    99.00
 8  1 10  8    15.0 1   154.0     1.00     4.30    99.00    99.00
 8  1 10  9    15.0 1   146.0     1.00     4.30    99.00    99.00
 8  1 10 10    15.0 1   132.0     1.00     4.60    99.00    99.00
 8  1 10 11    15.0 1   121.0     0.50     6.60    99.00    99.00
 8  1 10 12    15.0 1     0.0     0.00     9.10    99.00    99.00
 8  1 10 13    15.0 1     0.0     0.00    11.00    99.00    99.00
 8  1 10 14    15.0 1     0.0     0.00    12.50    99.00    99.00
 8  1 10 15    15.0 1     0.0     0.00    13.40    99.00    99.00
 8  1 10 16    15.0 1     0.0     0.00    14.10    99.00    99.00
 8  1 10 17    15.0 1     0.0     0.00    13.60    99.00    99.00
 8  1 10 18    15.0 1     0.0     0.00    12.90    99.00    99.00
 8  1 10 19    15.0 1     0.0     0.00    12.10    99.00    99.00
 8  1 10 20    15.0 1     0.0     0.00    11.30    99.00    99.00
 8  1 10 21    15.0 1    85.0     0.50    10.60    99.00    99.00
 8  1 10 22    15.0 1    72.0     0.50    10.10    99.00    99.00
 8  1 10 23    15.0 1    38.0     0.50     9.60    99.00    99.00
 8  1 10 24    15.0 1    31.0     0.50     9.60    99.00    99.00
 8  1 11  1    15.0 1     0.0     0.00     9.90    99.00    99.00
 8  1 11  2    15.0 1   244.0     0.50    10.10    99.00    99.00
 8  1 11  3    15.0 1   283.0     1.50    10.30    99.00    99.00
 8  1 11  4    15.0 1   314.0     1.00    10.30    99.00    99.00
 8  1 11  5    15.0 1   343.0     0.50     9.90    99.00    99.00
 8  1 11  6    15.0 1   284.0     0.50     9.30    99.00    99.00
 8  1 11  7    15.0 1   282.0     1.50     8.60    99.00    99.00
 8  1 11  8    15.0 1   281.0     1.50     8.60    99.00    99.00
 8  1 11  9    15.0 1   252.0     1.50     9.30    99.00    99.00
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 8   1 11 10     15.0 1   225.0      2.10      9.40     99.00     99.00
 8   1 11 11     15.0 1   197.0      2.10      9.80     99.00     99.00
 8   1 11 12     15.0 1   200.0      1.50     10.40     99.00     99.00
 8   1 11 13     15.0 1   215.0      0.50     11.10     99.00     99.00
 8   1 11 14     15.0 1   304.0      0.50     11.60     99.00     99.00
 8   1 11 15     15.0 1   327.0      1.50     12.00     99.00     99.00
 8   1 11 16     15.0 1   351.0      2.10     12.00     99.00     99.00
 8   1 11 17     15.0 1    13.0      1.50     11.30     99.00     99.00
 8   1 11 18     15.0 1    46.0      1.00     10.50     99.00     99.00
 8   1 11 19     15.0 1    69.0      1.00      9.60     99.00     99.00
 8   1 11 20     15.0 1    74.0      0.50      8.80     99.00     99.00
 8   1 11 21     15.0 1    46.0      1.00      6.90     99.00     99.00
 8   1 11 22     15.0 1    76.0      1.00      6.60     99.00     99.00
 8   1 11 23     15.0 1     0.0      0.00      6.60     99.00     99.00
 8   1 11 24     15.0 1     0.0      0.00      7.00     99.00     99.00
 8   1 12  1     15.0 1     0.0      0.00      7.10     99.00     99.00
 8   1 12  2     15.0 1     0.0      0.00      7.10     99.00     99.00
 8   1 12  3     15.0 1   324.0      0.50      7.30     99.00     99.00
 8   1 12  4     15.0 1   326.0      0.50      7.50     99.00     99.00
 8   1 12  5     15.0 1     7.0      0.50      7.60     99.00     99.00
 8   1 12  6     15.0 1     0.0      0.00      7.60     99.00     99.00
 8   1 12  7     15.0 1     0.0      0.00      7.90     99.00     99.00
 8   1 12  8     15.0 1     0.0      0.00      8.00     99.00     99.00
 8   1 12  9     15.0 1     0.0      0.00      8.10     99.00     99.00
 8   1 12 10     15.0 1     0.0      0.00      8.50     99.00     99.00
 8   1 12 11     15.0 1     0.0      0.00      9.30     99.00     99.00
 8   1 12 12     15.0 1    49.0      0.50     10.50     99.00     99.00
 8   1 12 13     15.0 1     0.0      0.00     12.40     99.00     99.00
 8   1 12 14     15.0 1   318.0      0.50     13.90     99.00     99.00
 8   1 12 15     15.0 1   331.0      1.50     14.40     99.00     99.00
 8   1 12 16     15.0 1   339.0      1.50     14.50     99.00     99.00
 8   1 12 17     15.0 1     0.0      0.00     14.00     99.00     99.00
 8   1 12 18     15.0 1    49.0      1.00     13.00     99.00     99.00
 8   1 12 19     15.0 1    92.0      0.50     12.00     99.00     99.00
 8   1 12 20     15.0 1     0.0      0.00     11.00     99.00     99.00
 8   1 12 21     15.0 1   116.0      0.50     10.10     99.00     99.00
 8   1 12 22     15.0 1   137.0      0.50      9.50     99.00     99.00
 8   1 12 23     15.0 1   155.0      0.50      8.90     99.00     99.00
 8   1 12 24     15.0 1   150.0      0.50      8.10     99.00     99.00
 8   1 13  1     15.0 1   129.0      0.50      6.50     99.00     99.00
 8   1 13  2     15.0 1     0.0      0.00      5.60     99.00     99.00
 8   1 13  3     15.0 1     0.0      0.00      4.80     99.00     99.00
 8   1 13  4     15.0 1     0.0      0.00      4.60     99.00     99.00
 8   1 13  5     15.0 1   334.0      0.50      5.60     99.00     99.00
 8   1 13  6     15.0 1   330.0      1.00      5.90     99.00     99.00
 8   1 13  7     15.0 1   327.0      1.00      6.10     99.00     99.00
 8   1 13  8     15.0 1   303.0      1.00      6.10     99.00     99.00
 8   1 13  9     15.0 1   281.0      1.50      6.10     99.00     99.00
 8   1 13 10     15.0 1   283.0      2.10      6.40     99.00     99.00
 8   1 13 11     15.0 1   282.0      1.50      6.60     99.00     99.00
 8   1 13 12     15.0 1     0.0      0.00      7.60     99.00     99.00
 8   1 13 13     15.0 1    60.0      0.50      9.60     99.00     99.00
 8   1 13 14     15.0 1    37.0      0.50     11.50     99.00     99.00
 8   1 13 15     15.0 1    41.0      1.00     12.50     99.00     99.00
 8   1 13 16     15.0 1    36.0      1.50     12.50     99.00     99.00
 8   1 13 17     15.0 1    47.0      1.00     11.80     99.00     99.00
 8   1 13 18     15.0 1     0.0      0.00     10.60     99.00     99.00
 8   1 13 19     15.0 1     0.0      0.00      9.60     99.00     99.00
 8   1 13 20     15.0 1     0.0      0.00      9.00     99.00     99.00
 8   1 13 21     15.0 1    18.0      0.50      8.30     99.00     99.00
 8   1 13 22     15.0 1    21.0      1.00      7.60     99.00     99.00
 8   1 13 23     15.0 1    30.0      1.00      5.60     99.00     99.00
 8   1 13 24     15.0 1     0.0      0.00      4.40     99.00     99.00
 8   1 14  1     15.0 1     0.0      0.00      4.60     99.00     99.00
 8   1 14  2     15.0 1     0.0      0.00      5.00     99.00     99.00
 8   1 14  3     15.0 1     0.0      0.00      4.80     99.00     99.00
 8   1 14  4     15.0 1     0.0      0.00      4.80     99.00     99.00
 8   1 14  5     15.0 1     0.0      0.00      5.00     99.00     99.00
 8   1 14  6     15.0 1     0.0      0.00      5.10     99.00     99.00
 8   1 14  7     15.0 1     0.0      0.00      5.10     99.00     99.00
 8   1 14  8     15.0 1     0.0      0.00      4.80     99.00     99.00
 8   1 14  9     15.0 1     0.0      0.00      5.50     99.00     99.00
 8   1 14 10     15.0 1     0.0      0.00      8.90     99.00     99.00
 8   1 14 11     15.0 1   348.0      0.50     11.00     99.00     99.00
 8   1 14 12     15.0 1   357.0      1.00     12.60     99.00     99.00
 8   1 14 13     15.0 1     3.0      1.00     14.10     99.00     99.00
 8   1 14 14     15.0 1     1.0      1.50     14.90     99.00     99.00
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 8  1 14 15     15.0 1     7.0     1.50    15.10    99.00    99.00
 8  1 14 16     15.0 1    26.0     2.10    14.80    99.00    99.00
 8  1 14 17     15.0 1    42.0     2.10    13.80    99.00    99.00
 8  1 14 18     15.0 1    26.0     1.00    12.60    99.00    99.00
 8  1 14 19     15.0 1    15.0     0.50    11.40    99.00    99.00
 8  1 14 20     15.0 1     0.0     0.00    10.40    99.00    99.00
 8  1 14 21     15.0 1     0.0     0.00     9.60    99.00    99.00
 8  1 14 22     15.0 1     7.0     0.50     8.90    99.00    99.00
 8  1 14 23     15.0 1     0.0     0.00     8.60    99.00    99.00
 8  1 14 24     15.0 1     0.0     0.00     8.60    99.00    99.00
 8  1 15  1     15.0 1     0.0     0.00     8.60    99.00    99.00
 8  1 15  2     15.0 1     0.0     0.00     8.60    99.00    99.00
 8  1 15  3     15.0 1     0.0     0.00     8.60    99.00    99.00
 8  1 15  4     15.0 1     0.0     0.00     8.40    99.00    99.00
 8  1 15  5     15.0 1     0.0     0.00     8.10    99.00    99.00
 8  1 15  6     15.0 1     0.0     0.00     7.60    99.00    99.00
 8  1 15  7     15.0 1     0.0     0.00     7.00    99.00    99.00
 8  1 15  8     15.0 1     0.0     0.00     6.80    99.00    99.00
 8  1 15  9     15.0 1     0.0     0.00     8.40    99.00    99.00
 8  1 15 10     15.0 1   317.0     1.00    10.60    99.00    99.00
 8  1 15 11     15.0 1   322.0     0.50    12.50    99.00    99.00
 8  1 15 12     15.0 1   310.0     0.50    13.50    99.00    99.00
 8  1 15 13     15.0 1   304.0     1.00    14.40    99.00    99.00
 8  1 15 14     15.0 1   310.0     1.50    15.00    99.00    99.00
 8  1 15 15     15.0 1   323.0     2.10    15.10    99.00    99.00
 8  1 15 16     15.0 1   336.0     2.10    15.40    99.00    99.00
 8  1 15 17     15.0 1   343.0     2.10    14.80    99.00    99.00
 8  1 15 18     15.0 1   317.0     1.50    13.90    99.00    99.00
 8  1 15 19     15.0 1   301.0     2.10    12.90    99.00    99.00
 8  1 15 20     15.0 1   312.0     2.60    11.90    99.00    99.00
 8  1 15 21     15.0 1   314.0     2.10    10.90    99.00    99.00
 8  1 15 22     15.0 1   313.0     1.50    10.00    99.00    99.00
 8  1 15 23     15.0 1   299.0     1.00     9.10    99.00    99.00
 8  1 15 24     15.0 1   280.0     1.00     8.50    99.00    99.00
 8  1 16  1     15.0 1   256.0     2.10     7.90    99.00    99.00
 8  1 16  2     15.0 1   259.0     3.60     7.40    99.00    99.00
 8  1 16  3     15.0 1   267.0     4.10     6.50    99.00    99.00
 8  1 16  4     15.0 1   279.0     3.60     5.60    99.00    99.00
 8  1 16  5     15.0 1   284.0     3.60     5.10    99.00    99.00
 8  1 16  6     15.0 1   272.0     3.60     4.90    99.00    99.00
 8  1 16  7     15.0 1   262.0     3.60     4.60    99.00    99.00
 8  1 16  8     15.0 1   268.0     3.60     4.40    99.00    99.00
 8  1 16  9     15.0 1   292.0     3.60     6.00    99.00    99.00
 8  1 16 10     15.0 1   277.0     3.60     7.80    99.00    99.00
 8  1 16 11     15.0 1   271.0     2.60     9.80    99.00    99.00
 8  1 16 12     15.0 1   272.0     2.10    11.30    99.00    99.00
 8  1 16 13     15.0 1   292.0     1.50    12.60    99.00    99.00
 8  1 16 14     15.0 1   330.0     2.10    13.40    99.00    99.00
 8  1 16 15     15.0 1   341.0     3.10    13.60    99.00    99.00
 8  1 16 16     15.0 1     5.0     3.10    13.10    99.00    99.00
 8  1 16 17     15.0 1    26.0     3.60    12.30    99.00    99.00
 8  1 16 18     15.0 1    81.0     4.10    11.10    99.00    99.00
 8  1 16 19     15.0 1   139.0     4.10    10.00    99.00    99.00
 8  1 16 20     15.0 1   170.0     4.60     8.10    99.00    99.00
 8  1 16 21     15.0 1   166.0     5.10     6.90    99.00    99.00
 8  1 16 22     15.0 1   156.0     5.70     6.10    99.00    99.00
 8  1 16 23     15.0 1   169.0     6.20     5.60    99.00    99.00
 8  1 16 24     15.0 1   172.0     6.20     5.10    99.00    99.00
 8  1 17  1     15.0 1   167.0     6.20     4.80    99.00    99.00
 8  1 17  2     15.0 1   158.0     5.70     4.50    99.00    99.00
 8  1 17  3     15.0 1   159.0     4.10     4.00    99.00    99.00
 8  1 17  4     15.0 1   164.0     3.10     3.80    99.00    99.00
 8  1 17  5     15.0 1   173.0     1.50     3.40    99.00    99.00
 8  1 17  6     15.0 1   157.0     1.00     3.10    99.00    99.00
 8  1 17  7     15.0 1   130.0     0.50     2.60    99.00    99.00
 8  1 17  8     15.0 1   131.0     0.50     2.50    99.00    99.00
 8  1 17  9     15.0 1    64.0     0.50     4.10    99.00    99.00
 8  1 17 10     15.0 1     2.0     0.50     6.60    99.00    99.00
 8  1 17 11     15.0 1   296.0     0.50     8.40    99.00    99.00
 8  1 17 12     15.0 1   305.0     0.50     9.50    99.00    99.00
 8  1 17 13     15.0 1     0.0     0.00    10.40    99.00    99.00
 8  1 17 14     15.0 1   318.0     0.50    11.00    99.00    99.00
 8  1 17 15     15.0 1     0.0     0.00    11.30    99.00    99.00
 8  1 17 16     15.0 1    12.0     1.50    11.10    99.00    99.00
 8  1 17 17     15.0 1    18.0     2.60    10.10    99.00    99.00
 8  1 17 18     15.0 1    29.0     3.10     9.00    99.00    99.00
 8  1 17 19     15.0 1    29.0     1.50     7.80    99.00    99.00
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 8   1 17 20     15.0 1     0.0      0.00      6.60     99.00     99.00
 8   1 17 21     15.0 1     0.0      0.00      5.60     99.00     99.00
 8   1 17 22     15.0 1     0.0      0.00      4.80     99.00     99.00
 8   1 17 23     15.0 1     0.0      0.00      4.10     99.00     99.00
 8   1 17 24     15.0 1    79.0      0.50      3.60     99.00     99.00
 8   1 18  1     15.0 1     0.0      0.00      3.10     99.00     99.00
 8   1 18  2     15.0 1     0.0      0.00      2.60     99.00     99.00
 8   1 18  3     15.0 1   329.0      0.50      2.30     99.00     99.00
 8   1 18  4     15.0 1   333.0      0.50      2.00     99.00     99.00
 8   1 18  5     15.0 1   345.0      0.50      1.80     99.00     99.00
 8   1 18  6     15.0 1   342.0      0.50      1.50     99.00     99.00
 8   1 18  7     15.0 1   319.0      0.50      1.10     99.00     99.00
 8   1 18  8     15.0 1   298.0      0.50      1.00     99.00     99.00
 8   1 18  9     15.0 1   313.0      0.50      3.10     99.00     99.00
 8   1 18 10     15.0 1   312.0      1.00      5.60     99.00     99.00
 8   1 18 11     15.0 1   317.0      1.00      7.60     99.00     99.00
 8   1 18 12     15.0 1   317.0      1.00      9.40     99.00     99.00
 8   1 18 13     15.0 1   331.0      1.00     10.50     99.00     99.00
 8   1 18 14     15.0 1   355.0      1.00     11.30     99.00     99.00
 8   1 18 15     15.0 1     1.0      1.50     11.60     99.00     99.00
 8   1 18 16     15.0 1    25.0      1.50     11.50     99.00     99.00
 8   1 18 17     15.0 1    39.0      2.10     10.80     99.00     99.00
 8   1 18 18     15.0 1    69.0      1.50      9.80     99.00     99.00
 8   1 18 19     15.0 1   125.0      0.50      8.60     99.00     99.00
 8   1 18 20     15.0 1     0.0      0.00      7.40     99.00     99.00
 8   1 18 21     15.0 1     0.0      0.00      6.50     99.00     99.00
 8   1 18 22     15.0 1    41.0      0.50      5.80     99.00     99.00
 8   1 18 23     15.0 1    53.0      0.50      5.10     99.00     99.00
 8   1 18 24     15.0 1    36.0      1.00      4.50     99.00     99.00
 8   1 19  1     15.0 1    17.0      1.00      4.00     99.00     99.00
 8   1 19  2     15.0 1     7.0      1.50      3.60     99.00     99.00
 8   1 19  3     15.0 1    15.0      1.50      3.30     99.00     99.00
 8   1 19  4     15.0 1    16.0      1.50      3.10     99.00     99.00
 8   1 19  5     15.0 1    23.0      1.50      2.90     99.00     99.00
 8   1 19  6     15.0 1     8.0      1.50      2.60     99.00     99.00
 8   1 19  7     15.0 1     2.0      1.00      2.30     99.00     99.00
 8   1 19  8     15.0 1   312.0      0.50      2.00     99.00     99.00
 8   1 19  9     15.0 1   297.0      1.00      4.10     99.00     99.00
 8   1 19 10     15.0 1   301.0      1.50      6.50     99.00     99.00
 8   1 19 11     15.0 1   324.0      1.50      8.40     99.00     99.00
 8   1 19 12     15.0 1   319.0      1.00     10.30     99.00     99.00
 8   1 19 13     15.0 1   330.0      1.50     11.80     99.00     99.00
 8   1 19 14     15.0 1   330.0      1.50     12.50     99.00     99.00
 8   1 19 15     15.0 1   351.0      1.50     12.80     99.00     99.00
 8   1 19 16     15.0 1    13.0      1.50     12.60     99.00     99.00
 8   1 19 17     15.0 1    44.0      1.50     11.90     99.00     99.00
 8   1 19 18     15.0 1    68.0      0.50     10.60     99.00     99.00
 8   1 19 19     15.0 1     0.0      0.00      9.30     99.00     99.00
 8   1 19 20     15.0 1     0.0      0.00      8.00     99.00     99.00
 8   1 19 21     15.0 1     0.0      0.00      7.00     99.00     99.00
 8   1 19 22     15.0 1     0.0      0.00      6.10     99.00     99.00
 8   1 19 23     15.0 1    78.0      0.50      5.40     99.00     99.00
 8   1 19 24     15.0 1    86.0      0.50      4.80     99.00     99.00
 8   1 20  1     15.0 1     0.0      0.00      4.10     99.00     99.00
 8   1 20  2     15.0 1     0.0      0.00      3.60     99.00     99.00
 8   1 20  3     15.0 1     0.0      0.00      3.10     99.00     99.00
 8   1 20  4     15.0 1   114.0      0.50      2.80     99.00     99.00
 8   1 20  5     15.0 1     0.0      0.00      2.50     99.00     99.00
 8   1 20  6     15.0 1    83.0      0.50      2.10     99.00     99.00
 8   1 20  7     15.0 1    95.0      0.50      1.60     99.00     99.00
 8   1 20  8     15.0 1    88.0      0.50      1.50     99.00     99.00
 8   1 20  9     15.0 1     0.0      0.00      3.80     99.00     99.00
 8   1 20 10     15.0 1     0.0      0.00      7.50     99.00     99.00
 8   1 20 11     15.0 1     0.0      0.00      9.60     99.00     99.00
 8   1 20 12     15.0 1     0.0      0.00     11.30     99.00     99.00
 8   1 20 13     15.0 1   323.0      0.50     12.40     99.00     99.00
 8   1 20 14     15.0 1   330.0      1.50     13.10     99.00     99.00
 8   1 20 15     15.0 1   342.0      2.60     13.10     99.00     99.00
 8   1 20 16     15.0 1   353.0      3.10     13.80     99.00     99.00
 8   1 20 17     15.0 1   351.0      3.60     12.80     99.00     99.00
 8   1 20 18     15.0 1   339.0      4.10     11.30     99.00     99.00
 8   1 20 19     15.0 1   327.0      4.60      9.50     99.00     99.00
 8   1 20 20     15.0 1   335.0      4.60      8.10     99.00     99.00
 8   1 20 21     15.0 1   329.0      4.60      7.80     99.00     99.00
 8   1 20 22     15.0 1   344.0      3.60      7.50     99.00     99.00
 8   1 20 23     15.0 1   329.0      2.10      7.40     99.00     99.00
 8   1 20 24     15.0 1   318.0      1.50      7.40     99.00     99.00
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 8  1 21  1    15.0 1   309.0     1.50     7.30    99.00    99.00
 8  1 21  2    15.0 1   310.0     1.50     6.90    99.00    99.00
 8  1 21  3    15.0 1   309.0     2.10     6.30    99.00    99.00
 8  1 21  4    15.0 1   300.0     2.60     5.80    99.00    99.00
 8  1 21  5    15.0 1   287.0     3.10     5.10    99.00    99.00
 8  1 21  6    15.0 1   291.0     3.10     4.80    99.00    99.00
 8  1 21  7    15.0 1   289.0     2.10     4.60    99.00    99.00
 8  1 21  8    15.0 1   277.0     1.50     4.60    99.00    99.00
 8  1 21  9    15.0 1     0.0     0.00     5.50    99.00    99.00
 8  1 21 10    15.0 1   170.0     0.50     6.80    99.00    99.00
 8  1 21 11    15.0 1   172.0     1.00     7.60    99.00    99.00
 8  1 21 12    15.0 1   185.0     0.50     8.60    99.00    99.00
 8  1 21 13    15.0 1     0.0     0.00     9.60    99.00    99.00
 8  1 21 14    15.0 1     0.0     0.00    10.40    99.00    99.00
 8  1 21 15    15.0 1     0.0     0.00    10.80    99.00    99.00
 8  1 21 16    15.0 1    28.0     1.50    10.80    99.00    99.00
 8  1 21 17    15.0 1    38.0     2.60    10.30    99.00    99.00
 8  1 21 18    15.0 1    54.0     3.10     9.40    99.00    99.00
 8  1 21 19    15.0 1    66.0     2.10     8.40    99.00    99.00
 8  1 21 20    15.0 1    99.0     1.50     7.60    99.00    99.00
 8  1 21 21    15.0 1   116.0     1.50     6.90    99.00    99.00
 8  1 21 22    15.0 1   127.0     2.10     6.40    99.00    99.00
 8  1 21 23    15.0 1   128.0     3.10     5.90    99.00    99.00
 8  1 21 24    15.0 1   129.0     3.60     5.50    99.00    99.00
 8  1 22  1    15.0 1   132.0     3.10     5.30    99.00    99.00
 8  1 22  2    15.0 1   131.0     2.10     5.10    99.00    99.00
 8  1 22  3    15.0 1   150.0     1.00     5.10    99.00    99.00
 8  1 22  4    15.0 1   164.0     1.50     5.30    99.00    99.00
 8  1 22  5    15.0 1   165.0     2.60     5.40    99.00    99.00
 8  1 22  6    15.0 1   162.0     2.60     5.40    99.00    99.00
 8  1 22  7    15.0 1   147.0     3.10     5.10    99.00    99.00
 8  1 22  8    15.0 1   142.0     3.10     5.10    99.00    99.00
 8  1 22  9    15.0 1   128.0     4.60     7.60    99.00    99.00
 8  1 22 10    15.0 1   144.0     5.10    10.60    99.00    99.00
 8  1 22 11    15.0 1   148.0     4.10    12.10    99.00    99.00
 8  1 22 12    15.0 1   163.0     3.10    13.10    99.00    99.00
 8  1 22 13    15.0 1   167.0     2.10    14.00    99.00    99.00
 8  1 22 14    15.0 1   167.0     1.50    14.60    99.00    99.00
 8  1 22 15    15.0 1   195.0     2.10    14.90    99.00    99.00
 8  1 22 16    15.0 1   264.0     1.50    14.60    99.00    99.00
 8  1 22 17    15.0 1   339.0     5.10    12.80    99.00    99.00
 8  1 22 18    15.0 1   356.0     5.10    10.10    99.00    99.00
 8  1 22 19    15.0 1   355.0     4.10     9.10    99.00    99.00
 8  1 22 20    15.0 1   337.0     3.60     8.60    99.00    99.00
 8  1 22 21    15.0 1   340.0     2.60     8.40    99.00    99.00
 8  1 22 22    15.0 1   345.0     2.60     8.10    99.00    99.00
 8  1 22 23    15.0 1   341.0     2.60     8.00    99.00    99.00
 8  1 22 24    15.0 1   333.0     2.10     8.00    99.00    99.00
 8  1 23  1    15.0 1   320.0     1.50     8.10    99.00    99.00
 8  1 23  2    15.0 1   297.0     1.50     8.30    99.00    99.00
 8  1 23  3    15.0 1   320.0     2.10     8.10    99.00    99.00
 8  1 23  4    15.0 1   330.0     3.60     7.90    99.00    99.00
 8  1 23  5    15.0 1   339.0     3.60     7.60    99.00    99.00
 8  1 23  6    15.0 1   341.0     3.10     7.40    99.00    99.00
 8  1 23  7    15.0 1   349.0     3.10     7.10    99.00    99.00
 8  1 23  8    15.0 1   347.0     3.10     7.10    99.00    99.00
 8  1 23  9    15.0 1     5.0     3.10     7.40    99.00    99.00
 8  1 23 10    15.0 1   339.0     2.10     8.10    99.00    99.00
 8  1 23 11    15.0 1   216.0     0.50     9.80    99.00    99.00
 8  1 23 12    15.0 1   144.0     4.10    11.80    99.00    99.00
 8  1 23 13    15.0 1   140.0     4.60    11.80    99.00    99.00
 8  1 23 14    15.0 1   149.0     2.60    11.30    99.00    99.00
 8  1 23 15    15.0 1   290.0     1.50    10.80    99.00    99.00
 8  1 23 16    15.0 1   353.0     2.60    10.40    99.00    99.00
 8  1 23 17    15.0 1    52.0     2.60    10.30    99.00    99.00
 8  1 23 18    15.0 1   115.0     2.60    10.10    99.00    99.00
 8  1 23 19    15.0 1   244.0     5.10     9.60    99.00    99.00
 8  1 23 20    15.0 1   261.0     4.10     8.60    99.00    99.00
 8  1 23 21    15.0 1   237.0     1.50     8.10    99.00    99.00
 8  1 23 22    15.0 1   207.0     2.10     8.10    99.00    99.00
 8  1 23 23    15.0 1   187.0     2.10     8.10    99.00    99.00
 8  1 23 24    15.0 1   160.0     2.10     8.10    99.00    99.00
 8  1 24  1    15.0 1   136.0     2.60     8.10    99.00    99.00
 8  1 24  2    15.0 1   139.0     3.60     7.90    99.00    99.00
 8  1 24  3    15.0 1   147.0     4.10     7.60    99.00    99.00
 8  1 24  4    15.0 1   138.0     4.10     7.50    99.00    99.00
 8  1 24  5    15.0 1   119.0     4.10     7.50    99.00    99.00
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 8   1 24   6     15.0 1   122.0      3.60      7.60     99.00     99.00
 8   1 24   7     15.0 1   127.0      3.60      7.60     99.00     99.00
 8   1 24   8     15.0 1   143.0      4.10      7.50     99.00     99.00
 8   1 24   9     15.0 1   168.0      4.60      9.10     99.00     99.00
 8   1 24  10     15.0 1   194.0      5.10     10.80     99.00     99.00
 8   1 24  11     15.0 1   187.0      4.10     12.00     99.00     99.00
 8   1 24  12     15.0 1   178.0      3.60     12.80     99.00     99.00
 8   1 24  13     15.0 1   179.0      4.10     13.30     99.00     99.00
 8   1 24  14     15.0 1   187.0      4.10     13.10     99.00     99.00
 8   1 24  15     15.0 1   203.0      3.10     13.10     99.00     99.00
 8   1 24  16     15.0 1   178.0      2.10     12.60     99.00     99.00
 8   1 24  17     15.0 1   178.0      3.60     12.10     99.00     99.00
 8   1 24  18     15.0 1   192.0      4.60     11.10     99.00     99.00
 8   1 24  19     15.0 1   152.0      4.10     10.60     99.00     99.00
 8   1 24  20     15.0 1   132.0      4.60      9.90     99.00     99.00
 8   1 24  21     15.0 1   135.0      4.60      9.60     99.00     99.00
 8   1 24  22     15.0 1   135.0      4.60      9.80     99.00     99.00
 8   1 24  23     15.0 1   133.0      5.10      9.80     99.00     99.00
 8   1 24  24     15.0 1   129.0      6.20      9.80     99.00     99.00
 8   1 25   1     15.0 1   130.0      6.70      9.90     99.00     99.00
 8   1 25   2     15.0 1   132.0      7.20     10.00     99.00     99.00
 8   1 25   3     15.0 1   134.0      6.70     10.10     99.00     99.00
 8   1 25   4     15.0 1   135.0      7.20     10.40     99.00     99.00
 8   1 25   5     15.0 1   131.0      7.70     10.50     99.00     99.00
 8   1 25   6     15.0 1   135.0      7.70     10.60     99.00     99.00
 8   1 25   7     15.0 1   126.0      8.20     10.60     99.00     99.00
 8   1 25   8     15.0 1   131.0      8.70     10.80     99.00     99.00
 8   1 25   9     15.0 1   134.0      8.70     11.30     99.00     99.00
 8   1 25  10     15.0 1   132.0      9.30     12.10     99.00     99.00
 8   1 25  11     15.0 1   141.0      9.80     13.10     99.00     99.00
 8   1 25  12     15.0 1   138.0      9.80     14.10     99.00     99.00
 8   1 25  13     15.0 1   143.0      9.80     14.60     99.00     99.00
 8   1 25  14     15.0 1   142.0      9.80     14.60     99.00     99.00
 8   1 25  15     15.0 1   142.0      9.80     14.10     99.00     99.00
 8   1 25  16     15.0 1   140.0      9.30     13.10     99.00     99.00
 8   1 25  17     15.0 1   136.0      8.70     12.40     99.00     99.00
 8   1 25  18     15.0 1   141.0      8.20     12.10     99.00     99.00
 8   1 25  19     15.0 1   141.0      7.70     11.80     99.00     99.00
 8   1 25  20     15.0 1   140.0      7.20     11.60     99.00     99.00
 8   1 25  21     15.0 1   138.0      6.20     11.60     99.00     99.00
 8   1 25  22     15.0 1   130.0      6.20     11.50     99.00     99.00
 8   1 25  23     15.0 1   127.0      5.70     11.50     99.00     99.00
 8   1 25  24     15.0 1   130.0      6.20     11.40     99.00     99.00
 8   1 26   1     15.0 1   132.0      6.20     11.30     99.00     99.00
 8   1 26   2     15.0 1   135.0      6.70     11.00     99.00     99.00
 8   1 26   3     15.0 1   128.0      6.70     10.60     99.00     99.00
 8   1 26   4     15.0 1   128.0      7.20     10.40     99.00     99.00
 8   1 26   5     15.0 1   134.0      7.20     10.30     99.00     99.00
 8   1 26   6     15.0 1   126.0      7.20     10.10     99.00     99.00
 8   1 26   7     15.0 1   133.0      7.20     10.00     99.00     99.00
 8   1 26   8     15.0 1   126.0      7.20     10.10     99.00     99.00
 8   1 26   9     15.0 1   133.0      7.20     11.50     99.00     99.00
 8   1 26  10     15.0 1   134.0      6.70     13.60     99.00     99.00
 8   1 26  11     15.0 1   132.0      6.20     15.80     99.00     99.00
 8   1 26  12     15.0 1   136.0      6.20     17.10     99.00     99.00
 8   1 26  13     15.0 1   136.0      6.20     17.60     99.00     99.00
 8   1 26  14     15.0 1   142.0      6.20     17.30     99.00     99.00
 8   1 26  15     15.0 1   126.0      6.20     16.30     99.00     99.00
 8   1 26  16     15.0 1   140.0      6.70     15.00     99.00     99.00
 8   1 26  17     15.0 1   145.0      7.20     14.00     99.00     99.00
 8   1 26  18     15.0 1   151.0      6.20     13.60     99.00     99.00
 8   1 26  19     15.0 1   134.0      6.20     12.60     99.00     99.00
 8   1 26  20     15.0 1   128.0      6.20     12.10     99.00     99.00
 8   1 26  21     15.0 1   126.0      6.20     11.90     99.00     99.00
 8   1 26  22     15.0 1   116.0      7.70     11.90     99.00     99.00
 8   1 26  23     15.0 1   124.0      8.70     12.10     99.00     99.00
 8   1 26  24     15.0 1   118.0      9.80     12.60     99.00     99.00
 8   1 27   1     15.0 1   121.0     10.30     12.90     99.00     99.00
 8   1 27   2     15.0 1   122.0     10.30     13.10     99.00     99.00
 8   1 27   3     15.0 1   121.0      8.70     13.50     99.00     99.00
 8   1 27   4     15.0 1   121.0      7.20     13.60     99.00     99.00
 8   1 27   5     15.0 1   128.0      5.70     13.60     99.00     99.00
 8   1 27   6     15.0 1   141.0      5.10     13.40     99.00     99.00
 8   1 27   7     15.0 1   127.0      5.10     12.90     99.00     99.00
 8   1 27   8     15.0 1   120.0      5.10     12.60     99.00     99.00
 8   1 27   9     15.0 1   121.0      4.60     14.40     99.00     99.00
 8   1 27  10     15.0 1   182.0      8.20     16.60     99.00     99.00
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 8   1 27 11     15.0 1   193.0     10.30     17.60     99.00     99.00
 8   1 27 12     15.0 1   190.0     10.80     17.80     99.00     99.00
 8   1 27 13     15.0 1   186.0     10.80     17.90     99.00     99.00
 8   1 27 14     15.0 1   187.0      9.80     17.60     99.00     99.00
 8   1 27 15     15.0 1   194.0      6.20     17.10     99.00     99.00
 8   1 27 16     15.0 1   176.0      3.60     16.40     99.00     99.00
 8   1 27 17     15.0 1   148.0      3.60     15.60     99.00     99.00
 8   1 27 18     15.0 1   161.0      4.10     14.60     99.00     99.00
 8   1 27 19     15.0 1   166.0      4.10     13.60     99.00     99.00
 8   1 27 20     15.0 1   166.0      4.60     12.80     99.00     99.00
 8   1 27 21     15.0 1   168.0      4.60     12.10     99.00     99.00
 8   1 27 22     15.0 1   171.0      5.10     11.80     99.00     99.00
 8   1 27 23     15.0 1   176.0      5.10     11.40     99.00     99.00
 8   1 27 24     15.0 1   176.0      5.10     11.10     99.00     99.00
 8   1 28  1     15.0 1   197.0      4.60     11.00     99.00     99.00
 8   1 28  2     15.0 1   230.0      4.60     11.10     99.00     99.00
 8   1 28  3     15.0 1   237.0      5.10     11.10     99.00     99.00
 8   1 28  4     15.0 1   254.0      5.10     11.00     99.00     99.00
 8   1 28  5     15.0 1   262.0      4.60     10.80     99.00     99.00
 8   1 28  6     15.0 1   277.0      5.10     10.30     99.00     99.00
 8   1 28  7     15.0 1   286.0      5.10      9.00     99.00     99.00
 8   1 28  8     15.0 1   299.0      4.60      8.90     99.00     99.00
 8   1 28  9     15.0 1   299.0      6.20     10.30     99.00     99.00
 8   1 28 10     15.0 1   304.0      5.10     11.00     99.00     99.00
 8   1 28 11     15.0 1   304.0      3.60     10.90     99.00     99.00
 8   1 28 12     15.0 1   296.0      2.60     10.90     99.00     99.00
 8   1 28 13     15.0 1   298.0      3.60     11.40     99.00     99.00
 8   1 28 14     15.0 1   305.0      4.60     11.80     99.00     99.00
 8   1 28 15     15.0 1   321.0      5.70     11.80     99.00     99.00
 8   1 28 16     15.0 1   332.0      5.10     11.60     99.00     99.00
 8   1 28 17     15.0 1   341.0      3.60     10.60     99.00     99.00
 8   1 28 18     15.0 1   338.0      4.10      9.30     99.00     99.00
 8   1 28 19     15.0 1   338.0      4.10      8.30     99.00     99.00
 8   1 28 20     15.0 1   350.0      3.60      7.80     99.00     99.00
 8   1 28 21     15.0 1   347.0      3.10      7.40     99.00     99.00
 8   1 28 22     15.0 1   341.0      3.10      6.90     99.00     99.00
 8   1 28 23     15.0 1   338.0      2.60      6.30     99.00     99.00
 8   1 28 24     15.0 1   318.0      2.60      5.60     99.00     99.00
 8   1 29  1     15.0 1   307.0      2.60      5.00     99.00     99.00
 8   1 29  2     15.0 1   302.0      2.60      4.50     99.00     99.00
 8   1 29  3     15.0 1   305.0      3.10      4.00     99.00     99.00
 8   1 29  4     15.0 1   301.0      3.10      3.50     99.00     99.00
 8   1 29  5     15.0 1   308.0      3.10      3.10     99.00     99.00
 8   1 29  6     15.0 1   314.0      2.10      2.60     99.00     99.00
 8   1 29  7     15.0 1   323.0      1.00      2.40     99.00     99.00
 8   1 29  8     15.0 1   344.0      0.50      2.10     99.00     99.00
 8   1 29  9     15.0 1     0.0      0.00      4.00     99.00     99.00
 8   1 29 10     15.0 1     0.0      0.00      5.90     99.00     99.00
 8   1 29 11     15.0 1     0.0      0.00      7.40     99.00     99.00
 8   1 29 12     15.0 1     0.0      0.00      8.60     99.00     99.00
 8   1 29 13     15.0 1   333.0      1.00      9.10     99.00     99.00
 8   1 29 14     15.0 1   341.0      1.50      9.40     99.00     99.00
 8   1 29 15     15.0 1   345.0      1.50      9.60     99.00     99.00
 8   1 29 16     15.0 1   334.0      1.00      9.80     99.00     99.00
 8   1 29 17     15.0 1    20.0      0.50      9.40     99.00     99.00
 8   1 29 18     15.0 1    77.0      1.50      8.60     99.00     99.00
 8   1 29 19     15.0 1   113.0      2.10      8.00     99.00     99.00
 8   1 29 20     15.0 1   147.0      2.60      7.50     99.00     99.00
 8   1 29 21     15.0 1   179.0      3.10      7.30     99.00     99.00
 8   1 29 22     15.0 1   172.0      2.60      7.10     99.00     99.00
 8   1 29 23     15.0 1   144.0      3.10      7.00     99.00     99.00
 8   1 29 24     15.0 1   118.0      3.60      6.80     99.00     99.00
 8   1 30  1     15.0 1   125.0      3.10      6.80     99.00     99.00
 8   1 30  2     15.0 1   132.0      2.10      6.80     99.00     99.00
 8   1 30  3     15.0 1   117.0      1.50      6.80     99.00     99.00
 8   1 30  4     15.0 1   153.0      0.50      6.90     99.00     99.00
 8   1 30  5     15.0 1   300.0      1.00      6.60     99.00     99.00
 8   1 30  6     15.0 1   308.0      2.60      6.10     99.00     99.00
 8   1 30  7     15.0 1   302.0      3.10      5.60     99.00     99.00
 8   1 30  8     15.0 1   315.0      3.60      5.50     99.00     99.00
 8   1 30  9     15.0 1   327.0      3.60      6.90     99.00     99.00
 8   1 30 10     15.0 1   342.0      3.60      8.10     99.00     99.00
 8   1 30 11     15.0 1   342.0      3.60      9.60     99.00     99.00
 8   1 30 12     15.0 1   329.0      5.10     10.60     99.00     99.00
 8   1 30 13     15.0 1   334.0      5.70     11.30     99.00     99.00
 8   1 30 14     15.0 1   340.0      6.20     11.60     99.00     99.00
 8   1 30 15     15.0 1   338.0      6.20     11.80     99.00     99.00
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 8   1 30 16     15.0 1    343.0      4.10     11.10     99.00     99.00
 8   1 30 17     15.0 1    332.0      3.60     10.40     99.00     99.00
 8   1 30 18     15.0 1    321.0      3.60      9.30     99.00     99.00
 8   1 30 19     15.0 1    334.0      3.60      8.40     99.00     99.00
 8   1 30 20     15.0 1    343.0      2.60      7.80     99.00     99.00
 8   1 30 21     15.0 1     18.0      0.50      7.10     99.00     99.00
 8   1 30 22     15.0 1     91.0      0.50      6.80     99.00     99.00
 8   1 30 23     15.0 1    171.0      1.00      5.90     99.00     99.00
 8   1 30 24     15.0 1    218.0      1.00      5.10     99.00     99.00
 8   1 31  1     15.0 1    304.0      1.00      4.60     99.00     99.00
 8   1 31  2     15.0 1    318.0      1.00      4.10     99.00     99.00
 8   1 31  3     15.0 1    302.0      0.50      3.60     99.00     99.00
 8   1 31  4     15.0 1    201.0      1.00      3.10     99.00     99.00
 8   1 31  5     15.0 1    223.0      1.00      3.00     99.00     99.00
 8   1 31  6     15.0 1    217.0      1.00      2.60     99.00     99.00
 8   1 31  7     15.0 1    205.0      0.50      2.40     99.00     99.00
 8   1 31  8     15.0 1    162.0      0.50      2.30     99.00     99.00
 8   1 31  9     15.0 1      0.0      0.00      5.00     99.00     99.00
 8   1 31 10     15.0 1      0.0      0.00      7.10     99.00     99.00
 8   1 31 11     15.0 1      0.0      0.00      9.00     99.00     99.00
 8   1 31 12     15.0 1      0.0      0.00     10.40     99.00     99.00
 8   1 31 13     15.0 1      0.0      0.00     11.60     99.00     99.00
 8   1 31 14     15.0 1    334.0      0.50     12.60     99.00     99.00
 8   1 31 15     15.0 1      0.0      0.00     13.00     99.00     99.00
 8   1 31 16     15.0 1     16.0      2.60     12.60     99.00     99.00
 8   1 31 17     15.0 1     28.0      3.10     11.90     99.00     99.00
 8   1 31 18     15.0 1     29.0      2.10     11.10     99.00     99.00
 8   1 31 19     15.0 1    346.0      1.00     10.40     99.00     99.00
 8   1 31 20     15.0 1    279.0      1.50      9.40     99.00     99.00
 8   1 31 21     15.0 1    271.0      2.10      9.00     99.00     99.00
 8   1 31 22     15.0 1    268.0      2.60      8.80     99.00     99.00
 8   1 31 23     15.0 1    276.0      1.50      8.50     99.00     99.00
 8   1 31 24     15.0 1    123.0      0.50      8.10     99.00     99.00
 8   2  1  1     15.0 1    113.0      1.50      8.10     99.00     99.00
 8   2  1  2     15.0 1    118.0      3.10      7.40     99.00     99.00
 8   2  1  3     15.0 1    127.0      3.60      7.10     99.00     99.00
 8   2  1  4     15.0 1    139.0      4.60      7.10     99.00     99.00
 8   2  1  5     15.0 1    147.0      3.60      7.10     99.00     99.00
 8   2  1  6     15.0 1    146.0      2.60      7.30     99.00     99.00
 8   2  1  7     15.0 1    149.0      2.10      7.50     99.00     99.00
 8   2  1  8     15.0 1    146.0      0.50      7.50     99.00     99.00
 8   2  1  9     15.0 1    300.0      1.00      7.90     99.00     99.00
 8   2  1 10     15.0 1    324.0      2.60      8.30     99.00     99.00
 8   2  1 11     15.0 1    326.0      3.10      8.80     99.00     99.00
 8   2  1 12     15.0 1    326.0      3.60      9.10     99.00     99.00
 8   2  1 13     15.0 1    334.0      4.10      9.30     99.00     99.00
 8   2  1 14     15.0 1    339.0      3.60      9.90     99.00     99.00
 8   2  1 15     15.0 1    346.0      3.10     11.00     99.00     99.00
 8   2  1 16     15.0 1    326.0      2.60     11.50     99.00     99.00
 8   2  1 17     15.0 1    308.0      3.60     11.00     99.00     99.00
 8   2  1 18     15.0 1    332.0      4.10      9.60     99.00     99.00
 8   2  1 19     15.0 1    336.0      3.60      8.40     99.00     99.00
 8   2  1 20     15.0 1    329.0      3.10      7.60     99.00     99.00
 8   2  1 21     15.0 1    325.0      3.10      7.10     99.00     99.00
 8   2  1 22     15.0 1    322.0      2.60      6.50     99.00     99.00
 8   2  1 23     15.0 1    311.0      2.10      6.00     99.00     99.00
 8   2  1 24     15.0 1    302.0      1.00      5.50     99.00     99.00
 8   2  2  1     15.0 1    282.0      1.00      5.10     99.00     99.00
 8   2  2  2     15.0 1    285.0      1.50      4.90     99.00     99.00
 8   2  2  3     15.0 1    293.0      1.50      4.50     99.00     99.00
 8   2  2  4     15.0 1    305.0      1.00      4.10     99.00     99.00
 8   2  2  5     15.0 1    299.0      1.00      3.80     99.00     99.00
 8   2  2  6     15.0 1    323.0      1.00      3.50     99.00     99.00
 8   2  2  7     15.0 1    336.0      1.00      3.40     99.00     99.00
 8   2  2  8     15.0 1    336.0      0.50      3.60     99.00     99.00
 8   2  2  9     15.0 1    335.0      0.50      4.50     99.00     99.00
 8   2  2 10     15.0 1    316.0      0.50      5.30     99.00     99.00
 8   2  2 11     15.0 1      0.0      0.00      7.00     99.00     99.00
 8   2  2 12     15.0 1      0.0      0.00      8.30     99.00     99.00
 8   2  2 13     15.0 1      0.0      0.00      9.50     99.00     99.00
 8   2  2 14     15.0 1      0.0      0.00     10.50     99.00     99.00
 8   2  2 15     15.0 1      0.0      0.00     11.00     99.00     99.00
 8   2  2 16     15.0 1    100.0      0.50     11.00     99.00     99.00
 8   2  2 17     15.0 1     98.0      1.50     10.60     99.00     99.00
 8   2  2 18     15.0 1    134.0      2.60     10.10     99.00     99.00
 8   2  2 19     15.0 1    168.0      3.10      9.40     99.00     99.00
 8   2  2 20     15.0 1    177.0      3.10      9.00     99.00     99.00
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8	2	2	21	15.0	1	173.0	2.60	8.60	99.00	99.00
8	2	2	22	15.0	1	150.0	3.10	8.30	99.00	99.00
8	2	2	23	15.0	1	139.0	4.10	8.10	99.00	99.00
8	2	2	24	15.0	1	143.0	4.60	8.10	99.00	99.00
8	2	3	1	15.0	1	141.0	5.70	8.10	99.00	99.00
8	2	3	2	15.0	1	145.0	6.70	8.10	99.00	99.00
8	2	3	3	15.0	1	136.0	5.10	8.40	99.00	99.00
8	2	3	4	15.0	1	128.0	4.60	8.80	99.00	99.00
8	2	3	5	15.0	1	156.0	3.60	9.30	99.00	99.00
8	2	3	6	15.0	1	246.0	4.10	9.50	99.00	99.00
8	2	3	7	15.0	1	280.0	5.70	8.90	99.00	99.00
8	2	3	8	15.0	1	282.0	5.10	9.30	99.00	99.00
8	2	3	9	15.0	1	284.0	7.20	11.60	99.00	99.00
8	2	3	10	15.0	1	293.0	7.70	12.60	99.00	99.00
8	2	3	11	15.0	1	295.0	6.70	12.80	99.00	99.00
8	2	3	12	15.0	1	290.0	6.70	13.10	99.00	99.00
8	2	3	13	15.0	1	288.0	6.20	13.40	99.00	99.00
8	2	3	14	15.0	1	288.0	6.20	13.60	99.00	99.00
8	2	3	15	15.0	1	292.0	5.10	13.60	99.00	99.00
8	2	3	16	15.0	1	277.0	3.10	13.40	99.00	99.00
8	2	3	17	15.0	1	287.0	3.10	12.90	99.00	99.00
8	2	3	18	15.0	1	305.0	2.60	12.30	99.00	99.00
8	2	3	19	15.0	1	286.0	3.10	11.50	99.00	99.00
8	2	3	20	15.0	1	292.0	4.10	10.50	99.00	99.00
8	2	3	21	15.0	1	293.0	4.60	9.60	99.00	99.00
8	2	3	22	15.0	1	298.0	4.10	8.90	99.00	99.00
8	2	3	23	15.0	1	323.0	3.10	8.40	99.00	99.00
8	2	3	24	15.0	1	335.0	2.60	8.10	99.00	99.00
8	2	4	1	15.0	1	307.0	4.10	7.60	99.00	99.00
8	2	4	2	15.0	1	307.0	5.10	6.60	99.00	99.00
8	2	4	3	15.0	1	316.0	4.60	5.80	99.00	99.00
8	2	4	4	15.0	1	335.0	3.60	5.10	99.00	99.00
8	2	4	5	15.0	1	332.0	2.10	4.80	99.00	99.00
8	2	4	6	15.0	1	0.0	0.00	4.50	99.00	99.00
8	2	4	7	15.0	1	177.0	0.50	4.30	99.00	99.00
8	2	4	8	15.0	1	189.0	1.50	4.10	99.00	99.00
8	2	4	9	15.0	1	344.0	3.10	6.10	99.00	99.00
8	2	4	10	15.0	1	336.0	4.10	7.60	99.00	99.00
8	2	4	11	15.0	1	345.0	4.10	8.60	99.00	99.00
8	2	4	12	15.0	1	333.0	4.60	9.60	99.00	99.00
8	2	4	13	15.0	1	333.0	5.10	10.40	99.00	99.00
8	2	4	14	15.0	1	327.0	5.70	10.80	99.00	99.00
8	2	4	15	15.0	1	335.0	5.70	10.90	99.00	99.00
8	2	4	16	15.0	1	342.0	4.60	10.60	99.00	99.00
8	2	4	17	15.0	1	326.0	3.10	10.00	99.00	99.00
8	2	4	18	15.0	1	322.0	3.60	9.10	99.00	99.00
8	2	4	19	15.0	1	325.0	3.10	8.10	99.00	99.00
8	2	4	20	15.0	1	334.0	1.50	7.30	99.00	99.00
8	2	4	21	15.0	1	316.0	0.50	6.60	99.00	99.00
8	2	4	22	15.0	1	204.0	1.00	5.60	99.00	99.00
8	2	4	23	15.0	1	202.0	2.10	5.10	99.00	99.00
8	2	4	24	15.0	1	208.0	2.10	4.40	99.00	99.00
8	2	5	1	15.0	1	226.0	2.60	3.60	99.00	99.00
8	2	5	2	15.0	1	259.0	3.60	3.10	99.00	99.00
8	2	5	3	15.0	1	282.0	4.10	2.60	99.00	99.00
8	2	5	4	15.0	1	302.0	4.10	2.00	99.00	99.00
8	2	5	5	15.0	1	289.0	3.60	1.40	99.00	99.00
8	2	5	6	15.0	1	276.0	3.10	1.00	99.00	99.00
8	2	5	7	15.0	1	259.0	3.10	0.60	99.00	99.00
8	2	5	8	15.0	1	268.0	2.60	1.00	99.00	99.00
8	2	5	9	15.0	1	320.0	2.10	3.00	99.00	99.00
8	2	5	10	15.0	1	305.0	1.00	4.80	99.00	99.00
8	2	5	11	15.0	1	292.0	1.00	6.10	99.00	99.00
8	2	5	12	15.0	1	302.0	1.50	7.60	99.00	99.00
8	2	5	13	15.0	1	305.0	1.50	8.60	99.00	99.00
8	2	5	14	15.0	1	306.0	1.50	9.50	99.00	99.00
8	2	5	15	15.0	1	324.0	1.50	9.90	99.00	99.00
8	2	5	16	15.0	1	335.0	1.50	9.90	99.00	99.00
8	2	5	17	15.0	1	323.0	1.50	9.60	99.00	99.00
8	2	5	18	15.0	1	317.0	1.00	8.60	99.00	99.00
8	2	5	19	15.0	1	275.0	0.50	7.60	99.00	99.00
8	2	5	20	15.0	1	0.0	0.00	6.50	99.00	99.00
8	2	5	21	15.0	1	0.0	0.00	5.50	99.00	99.00
8	2	5	22	15.0	1	0.0	0.00	4.60	99.00	99.00
8	2	5	23	15.0	1	0.0	0.00	4.00	99.00	99.00
8	2	5	24	15.0	1	0.0	0.00	3.40	99.00	99.00
8	2	6	1	15.0	1	0.0	0.00	2.90	99.00	99.00

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 8  2  6  2    15.0 1     0.0      0.00     2.50     99.00    99.00
 8  2  6  3    15.0 1   120.0      0.50     2.10     99.00    99.00
 8  2  6  4    15.0 1   116.0      0.50     1.80     99.00    99.00
 8  2  6  5    15.0 1   128.0      0.50     1.60     99.00    99.00
 8  2  6  6    15.0 1   127.0      1.00     1.50     99.00    99.00
 8  2  6  7    15.0 1   154.0      1.00     1.60     99.00    99.00
 8  2  6  8    15.0 1   119.0      1.00     1.60     99.00    99.00
 8  2  6  9    15.0 1   134.0      0.50     3.10     99.00    99.00
 8  2  6 10    15.0 1     0.0      0.00     5.60     99.00    99.00
 8  2  6 11    15.0 1     0.0      0.00     7.30     99.00    99.00
 8  2  6 12    15.0 1   276.0      0.50     8.50     99.00    99.00
 8  2  6 13    15.0 1   294.0      1.00     9.10     99.00    99.00
 8  2  6 14    15.0 1   299.0      2.10     9.60     99.00    99.00
 8  2  6 15    15.0 1   325.0      2.60    10.30     99.00    99.00
 8  2  6 16    15.0 1   342.0      2.10    10.40     99.00    99.00
 8  2  6 17    15.0 1    12.0      2.10     9.90     99.00    99.00
 8  2  6 18    15.0 1    52.0      1.00     9.10     99.00    99.00
 8  2  6 19    15.0 1   148.0      0.50     8.10     99.00    99.00
 8  2  6 20    15.0 1   261.0      0.50     7.10     99.00    99.00
 8  2  6 21    15.0 1   329.0      1.00     6.80     99.00    99.00
 8  2  6 22    15.0 1     2.0      1.00     6.60     99.00    99.00
 8  2  6 23    15.0 1    47.0      0.50     6.10     99.00    99.00
 8  2  6 24    15.0 1   107.0      1.00     5.60     99.00    99.00
 8  2  7  1    15.0 1   138.0      1.50     5.50     99.00    99.00
 8  2  7  2    15.0 1   165.0      2.10     5.60     99.00    99.00
 8  2  7  3    15.0 1   174.0      2.60     6.00     99.00    99.00
 8  2  7  4    15.0 1   168.0      2.10     6.10     99.00    99.00
 8  2  7  5    15.0 1   171.0      2.10     6.10     99.00    99.00
 8  2  7  6    15.0 1   200.0      1.50     6.00     99.00    99.00
 8  2  7  7    15.0 1   262.0      1.00     5.10     99.00    99.00
 8  2  7  8    15.0 1   314.0      1.00     4.80     99.00    99.00
 8  2  7  9    15.0 1   324.0      1.00     6.30     99.00    99.00
 8  2  7 10    15.0 1   353.0      0.50     7.40     99.00    99.00
 8  2  7 11    15.0 1     8.0      0.50     7.90     99.00    99.00
 8  2  7 12    15.0 1     0.0      0.00     9.10     99.00    99.00
 8  2  7 13    15.0 1   352.0      1.00    10.40     99.00    99.00
 8  2  7 14    15.0 1   350.0      1.00    11.50     99.00    99.00
 8  2  7 15    15.0 1   351.0      1.50    12.10     99.00    99.00
 8  2  7 16    15.0 1    11.0      2.10    11.90     99.00    99.00
 8  2  7 17    15.0 1    24.0      3.10    11.10     99.00    99.00
 8  2  7 18    15.0 1    33.0      3.60     9.90     99.00    99.00
 8  2  7 19    15.0 1    38.0      3.10     9.10     99.00    99.00
 8  2  7 20    15.0 1    45.0      1.50     8.50     99.00    99.00
 8  2  7 21    15.0 1     0.0      0.00     7.90     99.00    99.00
 8  2  7 22    15.0 1     0.0      0.00     7.30     99.00    99.00
 8  2  7 23    15.0 1     0.0      0.00     6.80     99.00    99.00
 8  2  7 24    15.0 1     0.0      0.00     6.30     99.00    99.00
 8  2  8  1    15.0 1     0.0      0.00     5.90     99.00    99.00
 8  2  8  2    15.0 1     0.0      0.00     5.60     99.00    99.00
 8  2  8  3    15.0 1     0.0      0.00     5.10     99.00    99.00
 8  2  8  4    15.0 1     0.0      0.00     4.40     99.00    99.00
 8  2  8  5    15.0 1     0.0      0.00     3.40     99.00    99.00
 8  2  8  6    15.0 1     0.0      0.00     3.00     99.00    99.00
 8  2  8  7    15.0 1     0.0      0.00     2.90     99.00    99.00
 8  2  8  8    15.0 1     0.0      0.00     3.00     99.00    99.00
 8  2  8  9    15.0 1     0.0      0.00     4.10     99.00    99.00
 8  2  8 10    15.0 1   314.0      1.00     6.60     99.00    99.00
 8  2  8 11    15.0 1   326.0      1.50     8.30     99.00    99.00
 8  2  8 12    15.0 1   343.0      1.50     9.60     99.00    99.00
 8  2  8 13    15.0 1   344.0      2.10    11.10     99.00    99.00
 8  2  8 14    15.0 1     2.0      2.10    12.30     99.00    99.00
 8  2  8 15    15.0 1    12.0      2.10    12.80     99.00    99.00
 8  2  8 16    15.0 1    23.0      2.10    12.80     99.00    99.00
 8  2  8 17    15.0 1    28.0      1.50    12.30     99.00    99.00
 8  2  8 18    15.0 1    19.0      0.50    11.40     99.00    99.00
 8  2  8 19    15.0 1     0.0      0.00    10.30     99.00    99.00
 8  2  8 20    15.0 1     0.0      0.00     9.30     99.00    99.00
 8  2  8 21    15.0 1     0.0      0.00     8.40     99.00    99.00
 8  2  8 22    15.0 1    49.0      0.50     7.60     99.00    99.00
 8  2  8 23    15.0 1    26.0      0.50     6.60     99.00    99.00
 8  2  8 24    15.0 1    42.0      0.50     4.80     99.00    99.00
 8  2  9  1    15.0 1     0.0      0.00     3.80     99.00    99.00
 8  2  9  2    15.0 1     0.0      0.00     3.30     99.00    99.00
 8  2  9  3    15.0 1     0.0      0.00     3.10     99.00    99.00
 8  2  9  4    15.0 1     0.0      0.00     3.00     99.00    99.00
 8  2  9  5    15.0 1    71.0      0.50     3.10     99.00    99.00
 8  2  9  6    15.0 1     0.0      0.00     3.10     99.00    99.00
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 8  2  9  7    15.0 1  356.0     0.50     3.10    99.00    99.00
 8  2  9  8    15.0 1    0.0     0.00     3.50    99.00    99.00
 8  2  9  9    15.0 1  310.0     0.50     6.80    99.00    99.00
 8  2  9 10    15.0 1  301.0     1.00     9.90    99.00    99.00
 8  2  9 11    15.0 1  321.0     1.00    12.50    99.00    99.00
 8  2  9 12    15.0 1  344.0     1.00    14.50    99.00    99.00
 8  2  9 13    15.0 1  349.0     1.00    16.30    99.00    99.00
 8  2  9 14    15.0 1  346.0     1.50    17.60    99.00    99.00
 8  2  9 15    15.0 1  357.0     2.10    18.10    99.00    99.00
 8  2  9 16    15.0 1    0.0     0.00    19.60    99.00    99.00
 8  2  9 17    15.0 1   12.0     2.60    18.90    99.00    99.00
 8  2  9 18    15.0 1   17.0     2.10    17.80    99.00    99.00
 8  2  9 19    15.0 1    7.0     1.00    16.60    99.00    99.00
 8  2  9 20    15.0 1    0.0     0.00    15.40    99.00    99.00
 8  2  9 21    15.0 1    0.0     0.00    14.10    99.00    99.00
 8  2  9 22    15.0 1  305.0     0.50    13.10    99.00    99.00
 8  2  9 23    15.0 1  335.0     1.00    12.50    99.00    99.00
 8  2  9 24    15.0 1  321.0     1.50    12.10    99.00    99.00
 8  2 10  1    15.0 1  315.0     1.50    11.90    99.00    99.00
 8  2 10  2    15.0 1  289.0     2.10    11.60    99.00    99.00
 8  2 10  3    15.0 1  290.0     2.10    11.00    99.00    99.00
 8  2 10  4    15.0 1  281.0     2.10    10.50    99.00    99.00
 8  2 10  5    15.0 1  256.0     1.50    10.10    99.00    99.00
 8  2 10  6    15.0 1  255.0     1.50     9.60    99.00    99.00
 8  2 10  7    15.0 1  251.0     1.50     9.30    99.00    99.00
 8  2 10  8    15.0 1  259.0     1.50     9.40    99.00    99.00
 8  2 10  9    15.0 1  307.0     1.50    11.40    99.00    99.00
 8  2 10 10    15.0 1  300.0     0.50    13.10    99.00    99.00
 8  2 10 11    15.0 1  291.0     0.50    15.30    99.00    99.00
 8  2 10 12    15.0 1  292.0     0.50    17.10    99.00    99.00
 8  2 10 13    15.0 1  304.0     1.00    18.30    99.00    99.00
 8  2 10 14    15.0 1  319.0     1.00    19.10    99.00    99.00
 8  2 10 15    15.0 1  333.0     1.50    19.50    99.00    99.00
 8  2 10 16    15.0 1  345.0     2.10    19.40    99.00    99.00
 8  2 10 17    15.0 1  338.0     2.10    18.60    99.00    99.00
 8  2 10 18    15.0 1  354.0     1.00    17.40    99.00    99.00
 8  2 10 19    15.0 1    0.0     0.00    16.00    99.00    99.00
 8  2 10 20    15.0 1  197.0     0.50    14.60    99.00    99.00
 8  2 10 21    15.0 1  195.0     0.50    13.50    99.00    99.00
 8  2 10 22    15.0 1  134.0     0.50    12.50    99.00    99.00
 8  2 10 23    15.0 1   87.0     0.50    11.60    99.00    99.00
 8  2 10 24    15.0 1   81.0     0.50    10.90    99.00    99.00
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 8  2 11  2    15.0 1    0.0     0.00     9.90    99.00    99.00
 8  2 11  3    15.0 1    0.0     0.00     9.40    99.00    99.00
 8  2 11  4    15.0 1  292.0     0.50     9.10    99.00    99.00
 8  2 11  5    15.0 1  287.0     1.00     8.90    99.00    99.00
 8  2 11  6    15.0 1  286.0     1.50     8.60    99.00    99.00
 8  2 11  7    15.0 1  283.0     1.50     8.50    99.00    99.00
 8  2 11  8    15.0 1  268.0     1.00     8.60    99.00    99.00
 8  2 11  9    15.0 1  303.0     1.00    11.10    99.00    99.00
 8  2 11 10    15.0 1    0.0     0.00    13.10    99.00    99.00
 8  2 11 11    15.0 1    0.0     0.00    15.30    99.00    99.00
 8  2 11 12    15.0 1  281.0     0.50    16.60    99.00    99.00
 8  2 11 13    15.0 1  288.0     0.50    17.80    99.00    99.00
 8  2 11 14    15.0 1  312.0     1.00    18.60    99.00    99.00
 8  2 11 15    15.0 1  335.0     1.50    19.30    99.00    99.00
 8  2 11 16    15.0 1  345.0     2.10    19.30    99.00    99.00
 8  2 11 17    15.0 1    0.0     0.00    18.60    99.00    99.00
 8  2 11 18    15.0 1   17.0     1.50    17.60    99.00    99.00
 8  2 11 19    15.0 1   81.0     0.50    16.10    99.00    99.00
 8  2 11 20    15.0 1    0.0     0.00    14.80    99.00    99.00
 8  2 11 21    15.0 1    0.0     0.00    13.60    99.00    99.00
 8  2 11 22    15.0 1   86.0     0.50    12.60    99.00    99.00
 8  2 11 23    15.0 1   96.0     0.50    11.80    99.00    99.00
 8  2 11 24    15.0 1    0.0     0.00    11.10    99.00    99.00
 8  2 12  1    15.0 1  279.0     1.50    10.90    99.00    99.00
 8  2 12  2    15.0 1  289.0     3.10    10.90    99.00    99.00
 8  2 12  3    15.0 1  304.0     3.10    10.50    99.00    99.00
 8  2 12  4    15.0 1  301.0     3.10    10.10    99.00    99.00
 8  2 12  5    15.0 1  299.0     2.60     9.80    99.00    99.00
 8  2 12  6    15.0 1  302.0     2.10     9.50    99.00    99.00
 8  2 12  7    15.0 1  293.0     2.10     9.10    99.00    99.00
 8  2 12  8    15.0 1  292.0     2.10     9.10    99.00    99.00
 8  2 12  9    15.0 1  316.0     2.10    11.30    99.00    99.00
 8  2 12 10    15.0 1  312.0     1.00    13.10    99.00    99.00
 8  2 12 11    15.0 1  285.0     0.50    15.40    99.00    99.00
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 8  2 12 12    15.0 1   287.0     1.00    17.00    99.00    99.00
 8  2 12 13    15.0 1   298.0     1.00    18.10    99.00    99.00
 8  2 12 14    15.0 1   321.0     1.00    19.10    99.00    99.00
 8  2 12 15    15.0 1   338.0     1.50    19.60    99.00    99.00
 8  2 12 16    15.0 1     4.0     2.10    19.60    99.00    99.00
 8  2 12 17    15.0 1    18.0     2.10    19.10    99.00    99.00
 8  2 12 18    15.0 1    42.0     1.50    17.90    99.00    99.00
 8  2 12 19    15.0 1    65.0     0.50    16.50    99.00    99.00
 8  2 12 20    15.0 1     0.0     0.00    15.10    99.00    99.00
 8  2 12 21    15.0 1   272.0     0.50    14.00    99.00    99.00
 8  2 12 22    15.0 1     0.0     0.00    13.10    99.00    99.00
 8  2 12 23    15.0 1     0.0     0.00    12.60    99.00    99.00
 8  2 12 24    15.0 1   345.0     0.50    11.90    99.00    99.00
 8  2 13  1    15.0 1   324.0     0.50    11.40    99.00    99.00
 8  2 13  2    15.0 1   345.0     0.50    11.00    99.00    99.00
 8  2 13  3    15.0 1   319.0     0.50    10.60    99.00    99.00
 8  2 13  4    15.0 1   287.0     1.00    10.40    99.00    99.00
 8  2 13  5    15.0 1   284.0     1.00    10.10    99.00    99.00
 8  2 13  6    15.0 1   302.0     1.00     9.60    99.00    99.00
 8  2 13  7    15.0 1   327.0     1.00     9.10    99.00    99.00
 8  2 13  8    15.0 1   340.0     1.00     9.40    99.00    99.00
 8  2 13  9    15.0 1   329.0     2.60    11.90    99.00    99.00
 8  2 13 10    15.0 1   321.0     2.60    13.80    99.00    99.00
 8  2 13 11    15.0 1   334.0     3.60    15.40    99.00    99.00
 8  2 13 12    15.0 1   331.0     4.60    16.10    99.00    99.00
 8  2 13 13    15.0 1   329.0     5.10    16.90    99.00    99.00
 8  2 13 14    15.0 1   327.0     5.10    17.50    99.00    99.00
 8  2 13 15    15.0 1   330.0     6.20    17.60    99.00    99.00
 8  2 13 16    15.0 1   319.0     5.10    17.30    99.00    99.00
 8  2 13 17    15.0 1   310.0     4.60    15.90    99.00    99.00
 8  2 13 18    15.0 1   305.0     4.60    13.90    99.00    99.00
 8  2 13 19    15.0 1   304.0     4.60    12.40    99.00    99.00
 8  2 13 20    15.0 1   296.0     4.60    11.10    99.00    99.00
 8  2 13 21    15.0 1   299.0     3.60    10.10    99.00    99.00
 8  2 13 22    15.0 1   289.0     2.10     9.60    99.00    99.00
 8  2 13 23    15.0 1   268.0     1.50     9.10    99.00    99.00
 8  2 13 24    15.0 1   266.0     1.50     8.60    99.00    99.00
 8  2 14  1    15.0 1   310.0     3.10     7.80    99.00    99.00
 8  2 14  2    15.0 1   332.0     5.70     7.10    99.00    99.00
 8  2 14  3    15.0 1   326.0     6.70     6.50    99.00    99.00
 8  2 14  4    15.0 1   326.0     5.70     5.90    99.00    99.00
 8  2 14  5    15.0 1   328.0     5.10     5.30    99.00    99.00
 8  2 14  6    15.0 1   325.0     4.10     4.90    99.00    99.00
 8  2 14  7    15.0 1   330.0     3.60     4.40    99.00    99.00
 8  2 14  8    15.0 1   344.0     4.10     5.30    99.00    99.00
 8  2 14  9    15.0 1     3.0     6.20     7.90    99.00    99.00
 8  2 14 10    15.0 1    13.0     5.10     9.60    99.00    99.00
 8  2 14 11    15.0 1     8.0     5.10    11.00    99.00    99.00
 8  2 14 12    15.0 1    14.0     4.60    12.50    99.00    99.00
 8  2 14 13    15.0 1     0.0     0.00    13.90    99.00    99.00
 8  2 14 14    15.0 1   327.0     3.10    14.90    99.00    99.00
 8  2 14 15    15.0 1   315.0     3.60    15.60    99.00    99.00
 8  2 14 16    15.0 1   303.0     3.60    15.00    99.00    99.00
 8  2 14 17    15.0 1   303.0     4.10    12.60    99.00    99.00
 8  2 14 18    15.0 1   296.0     1.50    11.10    99.00    99.00
 8  2 14 19    15.0 1   129.0     2.60    10.40    99.00    99.00
 8  2 14 20    15.0 1   117.0     4.60     9.50    99.00    99.00
 8  2 14 21    15.0 1   151.0     1.00     9.60    99.00    99.00
 8  2 14 22    15.0 1   228.0     1.50     8.60    99.00    99.00
 8  2 14 23    15.0 1   188.0     2.10     7.50    99.00    99.00
 8  2 14 24    15.0 1   203.0     3.10     6.80    99.00    99.00
 8  2 15  1    15.0 1   253.0     4.60     6.50    99.00    99.00
 8  2 15  2    15.0 1   272.0     5.10     5.60    99.00    99.00
 8  2 15  3    15.0 1   282.0     4.60     5.10    99.00    99.00
 8  2 15  4    15.0 1   280.0     3.60     4.60    99.00    99.00
 8  2 15  5    15.0 1   258.0     3.10     4.10    99.00    99.00
 8  2 15  6    15.0 1   237.0     3.60     3.90    99.00    99.00
 8  2 15  7    15.0 1   241.0     4.10     3.30    99.00    99.00
 8  2 15  8    15.0 1   254.0     3.10     3.80    99.00    99.00
 8  2 15  9    15.0 1   276.0     2.10     5.50    99.00    99.00
 8  2 15 10    15.0 1   258.0     1.50     7.40    99.00    99.00
 8  2 15 11    15.0 1   256.0     1.00     8.80    99.00    99.00
 8  2 15 12    15.0 1   285.0     0.50    10.30    99.00    99.00
 8  2 15 13    15.0 1   288.0     0.50    11.50    99.00    99.00
 8  2 15 14    15.0 1   302.0     0.50    12.40    99.00    99.00
 8  2 15 15    15.0 1   298.0     0.50    12.90    99.00    99.00
 8  2 15 16    15.0 1   306.0     1.00    12.90    99.00    99.00
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 8  2 15 17    15.0 1   324.0     1.00    12.60    99.00    99.00
 8  2 15 18    15.0 1   326.0     1.00    11.60    99.00    99.00
 8  2 15 19    15.0 1     0.0     0.00    10.40    99.00    99.00
 8  2 15 20    15.0 1     0.0     0.00     9.10    99.00    99.00
 8  2 15 21    15.0 1     0.0     0.00     8.00    99.00    99.00
 8  2 15 22    15.0 1    94.0     0.50     6.90    99.00    99.00
 8  2 15 23    15.0 1    90.0     0.50     6.10    99.00    99.00
 8  2 15 24    15.0 1     0.0     0.00     5.60    99.00    99.00
 8  2 16  1    15.0 1     0.0     0.00     5.30    99.00    99.00
 8  2 16  2    15.0 1   281.0     0.50     5.00    99.00    99.00
 8  2 16  3    15.0 1   282.0     1.50     4.60    99.00    99.00
 8  2 16  4    15.0 1   304.0     3.10     4.40    99.00    99.00
 8  2 16  5    15.0 1   301.0     3.10     3.80    99.00    99.00
 8  2 16  6    15.0 1   299.0     3.10     3.40    99.00    99.00
 8  2 16  7    15.0 1   295.0     2.60     3.10    99.00    99.00
 8  2 16  8    15.0 1   300.0     2.10     3.60    99.00    99.00
 8  2 16  9    15.0 1   308.0     1.00     5.60    99.00    99.00
 8  2 16 10    15.0 1     0.0     0.00     7.90    99.00    99.00
 8  2 16 11    15.0 1     0.0     0.00    10.10    99.00    99.00
 8  2 16 12    15.0 1     0.0     0.00    11.60    99.00    99.00
 8  2 16 13    15.0 1     0.0     0.00    13.00    99.00    99.00
 8  2 16 14    15.0 1     0.0     0.00    14.10    99.00    99.00
 8  2 16 15    15.0 1   276.0     0.50    14.60    99.00    99.00
 8  2 16 16    15.0 1   310.0     0.50    14.80    99.00    99.00
 8  2 16 17    15.0 1   332.0     0.50    14.50    99.00    99.00
 8  2 16 18    15.0 1     0.0     0.00    13.30    99.00    99.00
 8  2 16 19    15.0 1     0.0     0.00    11.80    99.00    99.00
 8  2 16 20    15.0 1     0.0     0.00    10.60    99.00    99.00
 8  2 16 21    15.0 1     0.0     0.00     9.40    99.00    99.00
 8  2 16 22    15.0 1    79.0     0.50     8.40    99.00    99.00
 8  2 16 23    15.0 1    91.0     0.50     7.50    99.00    99.00
 8  2 16 24    15.0 1    94.0     0.50     6.90    99.00    99.00
 8  2 17  1    15.0 1    86.0     0.50     6.30    99.00    99.00
 8  2 17  2    15.0 1    92.0     0.50     5.60    99.00    99.00
 8  2 17  3    15.0 1   101.0     0.50     5.10    99.00    99.00
 8  2 17  4    15.0 1     0.0     0.00     4.60    99.00    99.00
 8  2 17  5    15.0 1     0.0     0.00     4.30    99.00    99.00
 8  2 17  6    15.0 1   307.0     0.50     4.00    99.00    99.00
 8  2 17  7    15.0 1   285.0     0.50     3.80    99.00    99.00
 8  2 17  8    15.0 1   231.0     0.50     4.10    99.00    99.00
 8  2 17  9    15.0 1     0.0     0.00     7.60    99.00    99.00
 8  2 17 10    15.0 1     0.0     0.00    10.00    99.00    99.00
 8  2 17 11    15.0 1     0.0     0.00    12.30    99.00    99.00
 8  2 17 12    15.0 1     0.0     0.00    13.60    99.00    99.00
 8  2 17 13    15.0 1   308.0     0.50    14.90    99.00    99.00
 8  2 17 14    15.0 1   334.0     1.00    15.90    99.00    99.00
 8  2 17 15    15.0 1   344.0     1.50    16.40    99.00    99.00
 8  2 17 16    15.0 1     2.0     2.60    16.30    99.00    99.00
 8  2 17 17    15.0 1     9.0     2.60    15.60    99.00    99.00
 8  2 17 18    15.0 1    19.0     2.10    14.40    99.00    99.00
 8  2 17 19    15.0 1    34.0     0.50    13.00    99.00    99.00
 8  2 17 20    15.0 1     0.0     0.00    11.60    99.00    99.00
 8  2 17 21    15.0 1     0.0     0.00    10.60    99.00    99.00
 8  2 17 22    15.0 1     0.0     0.00     9.80    99.00    99.00
 8  2 17 23    15.0 1     0.0     0.00     9.10    99.00    99.00
 8  2 17 24    15.0 1    36.0     0.50     8.80    99.00    99.00
 8  2 18  1    15.0 1    53.0     0.50     8.50    99.00    99.00
 8  2 18  2    15.0 1    53.0     0.50     8.10    99.00    99.00
 8  2 18  3    15.0 1   313.0     0.50     7.90    99.00    99.00
 8  2 18  4    15.0 1   344.0     1.00     7.50    99.00    99.00
 8  2 18  5    15.0 1   297.0     2.10     7.30    99.00    99.00
 8  2 18  6    15.0 1   310.0     3.10     7.40    99.00    99.00
 8  2 18  7    15.0 1   300.0     2.60     7.10    99.00    99.00
 8  2 18  8    15.0 1   304.0     2.60     7.50    99.00    99.00
 8  2 18  9    15.0 1   318.0     2.60     9.50    99.00    99.00
 8  2 18 10    15.0 1   318.0     1.50    11.30    99.00    99.00
 8  2 18 11    15.0 1   319.0     1.50    13.40    99.00    99.00
 8  2 18 12    15.0 1   317.0     1.50    14.80    99.00    99.00
 8  2 18 13    15.0 1   326.0     2.10    15.60    99.00    99.00
 8  2 18 14    15.0 1   337.0     2.60    16.10    99.00    99.00
 8  2 18 15    15.0 1   341.0     2.60    16.00    99.00    99.00
 8  2 18 16    15.0 1   346.0     2.60    15.60    99.00    99.00
 8  2 18 17    15.0 1   349.0     2.10    15.10    99.00    99.00
 8  2 18 18    15.0 1   333.0     1.50    14.50    99.00    99.00
 8  2 18 19    15.0 1   310.0     1.50    13.60    99.00    99.00
 8  2 18 20    15.0 1   294.0     2.10    12.60    99.00    99.00
 8  2 18 21    15.0 1   298.0     2.10    11.60    99.00    99.00
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 8  2 18 22    15.0 1   313.0     2.10    10.90    99.00    99.00
 8  2 18 23    15.0 1   332.0     2.10    10.10    99.00    99.00
 8  2 18 24    15.0 1   345.0     1.50     9.30    99.00    99.00
 8  2 19  1    15.0 1   319.0     1.50     8.60    99.00    99.00
 8  2 19  2    15.0 1   309.0     2.60     8.00    99.00    99.00
 8  2 19  3    15.0 1   298.0     2.60     7.40    99.00    99.00
 8  2 19  4    15.0 1   296.0     2.60     6.90    99.00    99.00
 8  2 19  5    15.0 1   299.0     2.10     6.60    99.00    99.00
 8  2 19  6    15.0 1   288.0     1.50     6.50    99.00    99.00
 8  2 19  7    15.0 1   270.0     0.50     6.30    99.00    99.00
 8  2 19  8    15.0 1     0.0     0.00     6.50    99.00    99.00
 8  2 19  9    15.0 1   294.0     0.50     7.90    99.00    99.00
 8  2 19 10    15.0 1   271.0     0.50     9.10    99.00    99.00
 8  2 19 11    15.0 1     0.0     0.00    10.60    99.00    99.00
 8  2 19 12    15.0 1   323.0     0.50    12.30    99.00    99.00
 8  2 19 13    15.0 1   332.0     0.50    13.10    99.00    99.00
 8  2 19 14    15.0 1   342.0     1.00    13.60    99.00    99.00
 8  2 19 15    15.0 1   337.0     1.00    14.00    99.00    99.00
 8  2 19 16    15.0 1   337.0     1.50    14.10    99.00    99.00
 8  2 19 17    15.0 1   354.0     1.50    13.80    99.00    99.00
 8  2 19 18    15.0 1     7.0     1.50    13.10    99.00    99.00
 8  2 19 19    15.0 1    22.0     0.50    12.40    99.00    99.00
 8  2 19 20    15.0 1     0.0     0.00    11.50    99.00    99.00
 8  2 19 21    15.0 1   248.0     0.50    10.80    99.00    99.00
 8  2 19 22    15.0 1     0.0     0.00    10.50    99.00    99.00
 8  2 19 23    15.0 1    47.0     0.50    10.30    99.00    99.00
 8  2 19 24    15.0 1    28.0     1.00    10.10    99.00    99.00
 8  2 20  1    15.0 1    48.0     1.50    10.10    99.00    99.00
 8  2 20  2    15.0 1    53.0     2.10    10.00    99.00    99.00
 8  2 20  3    15.0 1    54.0     2.10     9.80    99.00    99.00
 8  2 20  4    15.0 1    51.0     1.00     9.80    99.00    99.00
 8  2 20  5    15.0 1     0.0     0.00     9.80    99.00    99.00
 8  2 20  6    15.0 1     0.0     0.00     9.60    99.00    99.00
 8  2 20  7    15.0 1     0.0     0.00     9.60    99.00    99.00
 8  2 20  8    15.0 1   135.0     1.00     9.60    99.00    99.00
 8  2 20  9    15.0 1   192.0     1.00    10.50    99.00    99.00
 8  2 20 10    15.0 1   287.0     1.50    11.60    99.00    99.00
 8  2 20 11    15.0 1   313.0     3.10    13.10    99.00    99.00
 8  2 20 12    15.0 1   322.0     3.60    14.00    99.00    99.00
 8  2 20 13    15.0 1   338.0     3.10    14.60    99.00    99.00
 8  2 20 14    15.0 1   350.0     3.60    14.90    99.00    99.00
 8  2 20 15    15.0 1   354.0     4.10    15.00    99.00    99.00
 8  2 20 16    15.0 1   356.0     4.10    14.80    99.00    99.00
 8  2 20 17    15.0 1     0.0     0.00    14.30    99.00    99.00
 8  2 20 18    15.0 1     7.0     3.10    13.40    99.00    99.00
 8  2 20 19    15.0 1    25.0     2.10    12.50    99.00    99.00
 8  2 20 20    15.0 1    51.0     1.00    11.50    99.00    99.00
 8  2 20 21    15.0 1   175.0     0.50    10.90    99.00    99.00
 8  2 20 22    15.0 1   206.0     1.00    10.50    99.00    99.00
 8  2 20 23    15.0 1   186.0     1.00    10.10    99.00    99.00
 8  2 20 24    15.0 1   180.0     1.00     9.80    99.00    99.00
 8  2 21  1    15.0 1   180.0     1.00     9.50    99.00    99.00
 8  2 21  2    15.0 1   184.0     0.50     9.10    99.00    99.00
 8  2 21  3    15.0 1   188.0     0.50     9.10    99.00    99.00
 8  2 21  4    15.0 1   128.0     0.50     9.10    99.00    99.00
 8  2 21  5    15.0 1   144.0     1.00     9.10    99.00    99.00
 8  2 21  6    15.0 1   128.0     1.50     9.00    99.00    99.00
 8  2 21  7    15.0 1   134.0     2.60     9.00    99.00    99.00
 8  2 21  8    15.0 1   146.0     3.10     9.10    99.00    99.00
 8  2 21  9    15.0 1   154.0     3.60     9.80    99.00    99.00
 8  2 21 10    15.0 1   146.0     3.10    10.50    99.00    99.00
 8  2 21 11    15.0 1   142.0     3.60    11.10    99.00    99.00
 8  2 21 12    15.0 1   144.0     3.10    11.80    99.00    99.00
 8  2 21 13    15.0 1   141.0     2.60    12.40    99.00    99.00
 8  2 21 14    15.0 1   143.0     2.10    12.50    99.00    99.00
 8  2 21 15    15.0 1   128.0     1.50    12.10    99.00    99.00
 8  2 21 16    15.0 1    98.0     1.00    11.80    99.00    99.00
 8  2 21 17    15.0 1    78.0     0.50    11.30    99.00    99.00
 8  2 21 18    15.0 1     0.0     0.00    11.00    99.00    99.00
 8  2 21 19    15.0 1     0.0     0.00    10.80    99.00    99.00
 8  2 21 20    15.0 1    14.0     0.50    10.60    99.00    99.00
 8  2 21 21    15.0 1    69.0     0.50    10.60    99.00    99.00
 8  2 21 22    15.0 1   133.0     0.50    10.80    99.00    99.00
 8  2 21 23    15.0 1     0.0     0.00    10.80    99.00    99.00
 8  2 21 24    15.0 1     0.0     0.00    10.60    99.00    99.00
 8  2 22  1    15.0 1    46.0     0.50    10.40    99.00    99.00
 8  2 22  2    15.0 1    50.0     0.50    10.40    99.00    99.00
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 8  2 22  3    15.0 1    60.0     0.50    10.40    99.00    99.00
 8  2 22  4    15.0 1    66.0     0.50    10.60    99.00    99.00
 8  2 22  5    15.0 1    54.0     0.50    10.60    99.00    99.00
 8  2 22  6    15.0 1    20.0     0.50    10.80    99.00    99.00
 8  2 22  7    15.0 1    25.0     1.00    10.80    99.00    99.00
 8  2 22  8    15.0 1    20.0     1.50    10.60    99.00    99.00
 8  2 22  9    15.0 1   354.0     2.10    11.10    99.00    99.00
 8  2 22 10    15.0 1   317.0     2.10    12.60    99.00    99.00
 8  2 22 11    15.0 1   344.0     1.50    14.40    99.00    99.00
 8  2 22 12    15.0 1   286.0     1.50    15.40    99.00    99.00
 8  2 22 13    15.0 1   279.0     3.10    16.10    99.00    99.00
 8  2 22 14    15.0 1   274.0     5.10    16.60    99.00    99.00
 8  2 22 15    15.0 1   284.0     5.70    16.50    99.00    99.00
 8  2 22 16    15.0 1   282.0     4.60    16.10    99.00    99.00
 8  2 22 17    15.0 1   283.0     4.10    15.10    99.00    99.00
 8  2 22 18    15.0 1   261.0     5.70    13.30    99.00    99.00
 8  2 22 19    15.0 1   258.0     6.20    11.40    99.00    99.00
 8  2 22 20    15.0 1   266.0     6.20    10.30    99.00    99.00
 8  2 22 21    15.0 1   276.0     5.70    10.00    99.00    99.00
 8  2 22 22    15.0 1   279.0     5.10     9.80    99.00    99.00
 8  2 22 23    15.0 1   285.0     4.60     9.10    99.00    99.00
 8  2 22 24    15.0 1   267.0     4.10     8.30    99.00    99.00
 8  2 23  1    15.0 1   266.0     3.60     7.60    99.00    99.00
 8  2 23  2    15.0 1   268.0     3.10     7.00    99.00    99.00
 8  2 23  3    15.0 1   260.0     2.60     6.60    99.00    99.00
 8  2 23  4    15.0 1   249.0     2.10     6.80    99.00    99.00
 8  2 23  5    15.0 1   241.0     1.00     7.10    99.00    99.00
 8  2 23  6    15.0 1   183.0     0.50     7.30    99.00    99.00
 8  2 23  7    15.0 1   135.0     0.50     7.50    99.00    99.00
 8  2 23  8    15.0 1     0.0     0.00     7.60    99.00    99.00
 8  2 23  9    15.0 1   182.0     1.00     8.10    99.00    99.00
 8  2 23 10    15.0 1   181.0     1.50     8.60    99.00    99.00
 8  2 23 11    15.0 1   149.0     1.00     9.40    99.00    99.00
 8  2 23 12    15.0 1   136.0     1.00    10.40    99.00    99.00
 8  2 23 13    15.0 1   136.0     1.00    11.10    99.00    99.00
 8  2 23 14    15.0 1   135.0     2.10    11.30    99.00    99.00
 8  2 23 15    15.0 1   126.0     3.10    11.10    99.00    99.00
 8  2 23 16    15.0 1   127.0     2.60    10.90    99.00    99.00
 8  2 23 17    15.0 1   116.0     3.60    10.50    99.00    99.00
 8  2 23 18    15.0 1   116.0     5.10    10.60    99.00    99.00
 8  2 23 19    15.0 1   125.0     6.20    11.00    99.00    99.00
 8  2 23 20    15.0 1   132.0     6.70    11.30    99.00    99.00
 8  2 23 21    15.0 1   132.0     6.70    11.60    99.00    99.00
 8  2 23 22    15.0 1   130.0     6.20    11.80    99.00    99.00
 8  2 23 23    15.0 1   138.0     5.10    11.90    99.00    99.00
 8  2 23 24    15.0 1   143.0     5.10    11.90    99.00    99.00
 8  2 24  1    15.0 1   143.0     5.10    11.60    99.00    99.00
 8  2 24  2    15.0 1   152.0     5.10    11.30    99.00    99.00
 8  2 24  3    15.0 1   152.0     5.10    10.90    99.00    99.00
 8  2 24  4    15.0 1   161.0     5.10    10.40    99.00    99.00
 8  2 24  5    15.0 1   174.0     5.70    10.00    99.00    99.00
 8  2 24  6    15.0 1   177.0     6.20     9.80    99.00    99.00
 8  2 24  7    15.0 1   166.0     6.20     9.60    99.00    99.00
 8  2 24  8    15.0 1   169.0     5.70    11.10    99.00    99.00
 8  2 24  9    15.0 1   191.0     6.70    14.40    99.00    99.00
 8  2 24 10    15.0 1   222.0     8.20    16.40    99.00    99.00
 8  2 24 11    15.0 1   230.0     8.20    17.30    99.00    99.00
 8  2 24 12    15.0 1   229.0     8.20    17.60    99.00    99.00
 8  2 24 13    15.0 1   241.0     8.20    17.60    99.00    99.00
 8  2 24 14    15.0 1   245.0     7.20    17.50    99.00    99.00
 8  2 24 15    15.0 1   255.0     6.20    17.00    99.00    99.00
 8  2 24 16    15.0 1   253.0     7.20    16.30    99.00    99.00
 8  2 24 17    15.0 1   252.0     4.10    15.10    99.00    99.00
 8  2 24 18    15.0 1   234.0     3.10    14.40    99.00    99.00
 8  2 24 19    15.0 1   224.0     2.60    13.60    99.00    99.00
 8  2 24 20    15.0 1   214.0     3.10    12.90    99.00    99.00
 8  2 24 21    15.0 1   231.0     3.10    12.10    99.00    99.00
 8  2 24 22    15.0 1   265.0     1.50    11.60    99.00    99.00
 8  2 24 23    15.0 1     0.0     0.00    11.60    99.00    99.00
 8  2 24 24    15.0 1   327.0     0.50    11.50    99.00    99.00
 8  2 25  1    15.0 1   284.0     1.50    11.10    99.00    99.00
 8  2 25  2    15.0 1   295.0     3.10    10.50    99.00    99.00
 8  2 25  3    15.0 1   298.0     3.60     9.60    99.00    99.00
 8  2 25  4    15.0 1   297.0     3.60     8.90    99.00    99.00
 8  2 25  5    15.0 1   315.0     3.60     8.60    99.00    99.00
 8  2 25  6    15.0 1   323.0     3.10     9.10    99.00    99.00
 8  2 25  7    15.0 1   322.0     2.60     9.50    99.00    99.00
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 8  2 25  8    15.0 1   323.0     2.60     9.80    99.00    99.00
 8  2 25  9    15.0 1   332.0     2.60    10.40    99.00    99.00
 8  2 25 10    15.0 1   346.0     1.50    12.10    99.00    99.00
 8  2 25 11    15.0 1   333.0     1.00    13.60    99.00    99.00
 8  2 25 12    15.0 1   316.0     1.00    14.60    99.00    99.00
 8  2 25 13    15.0 1   316.0     1.00    15.50    99.00    99.00
 8  2 25 14    15.0 1   330.0     1.00    16.10    99.00    99.00
 8  2 25 15    15.0 1   355.0     1.50    16.50    99.00    99.00
 8  2 25 16    15.0 1   351.0     2.60    16.50    99.00    99.00
 8  2 25 17    15.0 1   358.0     2.60    16.10    99.00    99.00
 8  2 25 18    15.0 1     0.0     0.00    15.30    99.00    99.00
 8  2 25 19    15.0 1     8.0     2.60    14.40    99.00    99.00
 8  2 25 20    15.0 1    27.0     1.00    13.50    99.00    99.00
 8  2 25 21    15.0 1   130.0     0.50    12.60    99.00    99.00
 8  2 25 22    15.0 1   146.0     0.50    11.60    99.00    99.00
 8  2 25 23    15.0 1   164.0     0.50    10.90    99.00    99.00
 8  2 25 24    15.0 1     0.0     0.00    10.30    99.00    99.00
 8  2 26  1    15.0 1     0.0     0.00     9.60    99.00    99.00
 8  2 26  2    15.0 1     0.0     0.00     9.10    99.00    99.00
 8  2 26  3    15.0 1   280.0     0.50     8.80    99.00    99.00
 8  2 26  4    15.0 1   292.0     1.00     8.30    99.00    99.00
 8  2 26  5    15.0 1   295.0     1.50     7.80    99.00    99.00
 8  2 26  6    15.0 1   300.0     1.50     6.80    99.00    99.00
 8  2 26  7    15.0 1   313.0     0.50     6.40    99.00    99.00
 8  2 26  8    15.0 1   332.0     0.50     7.50    99.00    99.00
 8  2 26  9    15.0 1   289.0     0.50    10.10    99.00    99.00
 8  2 26 10    15.0 1     0.0     0.00    12.60    99.00    99.00
 8  2 26 11    15.0 1     0.0     0.00    15.30    99.00    99.00
 8  2 26 12    15.0 1     0.0     0.00    17.10    99.00    99.00
 8  2 26 13    15.0 1   338.0     0.50    18.60    99.00    99.00
 8  2 26 14    15.0 1   351.0     1.50    19.80    99.00    99.00
 8  2 26 15    15.0 1   346.0     2.60    20.10    99.00    99.00
 8  2 26 16    15.0 1     2.0     3.60    20.00    99.00    99.00
 8  2 26 17    15.0 1     0.0     0.00    18.90    99.00    99.00
 8  2 26 18    15.0 1    14.0     4.10    17.50    99.00    99.00
 8  2 26 19    15.0 1    23.0     4.10    16.40    99.00    99.00
 8  2 26 20    15.0 1    24.0     3.60    15.60    99.00    99.00
 8  2 26 21    15.0 1    25.0     3.10    14.90    99.00    99.00
 8  2 26 22    15.0 1    21.0     1.50    14.10    99.00    99.00
 8  2 26 23    15.0 1    15.0     0.50    13.60    99.00    99.00
 8  2 26 24    15.0 1   334.0     1.00    13.10    99.00    99.00
 8  2 27  1    15.0 1   328.0     1.00    12.60    99.00    99.00
 8  2 27  2    15.0 1   327.0     2.10    12.00    99.00    99.00
 8  2 27  3    15.0 1   323.0     2.60    11.50    99.00    99.00
 8  2 27  4    15.0 1   322.0     3.10    11.10    99.00    99.00
 8  2 27  5    15.0 1   325.0     2.60    10.90    99.00    99.00
 8  2 27  6    15.0 1   324.0     2.60    10.60    99.00    99.00
 8  2 27  7    15.0 1   313.0     2.10    10.50    99.00    99.00
 8  2 27  8    15.0 1   303.0     1.50    10.50    99.00    99.00
 8  2 27  9    15.0 1   325.0     2.10    11.10    99.00    99.00
 8  2 27 10    15.0 1   319.0     1.50    12.60    99.00    99.00
 8  2 27 11    15.0 1   311.0     1.50    14.00    99.00    99.00
 8  2 27 12    15.0 1   309.0     2.10    15.00    99.00    99.00
 8  2 27 13    15.0 1   318.0     2.10    15.80    99.00    99.00
 8  2 27 14    15.0 1   335.0     2.10    16.60    99.00    99.00
 8  2 27 15    15.0 1   335.0     2.60    17.10    99.00    99.00
 8  2 27 16    15.0 1   345.0     2.60    16.60    99.00    99.00
 8  2 27 17    15.0 1   336.0     2.60    16.10    99.00    99.00
 8  2 27 18    15.0 1   341.0     1.50    15.60    99.00    99.00
 8  2 27 19    15.0 1   308.0     1.00    15.00    99.00    99.00
 8  2 27 20    15.0 1   279.0     1.00    14.50    99.00    99.00
 8  2 27 21    15.0 1   256.0     1.00    13.90    99.00    99.00
 8  2 27 22    15.0 1   255.0     1.00    13.10    99.00    99.00
 8  2 27 23    15.0 1   258.0     0.50    12.40    99.00    99.00
 8  2 27 24    15.0 1     0.0     0.00    11.40    99.00    99.00
 8  2 28  1    15.0 1   279.0     0.50    10.60    99.00    99.00
 8  2 28  2    15.0 1   299.0     0.50    10.00    99.00    99.00
 8  2 28  3    15.0 1   296.0     2.10     9.60    99.00    99.00
 8  2 28  4    15.0 1   307.0     2.60     9.10    99.00    99.00
 8  2 28  5    15.0 1   310.0     2.10     8.60    99.00    99.00
 8  2 28  6    15.0 1   299.0     1.50     8.10    99.00    99.00
 8  2 28  7    15.0 1   266.0     1.00     7.60    99.00    99.00
 8  2 28  8    15.0 1   310.0     1.00     9.00    99.00    99.00
 8  2 28  9    15.0 1   317.0     0.50    11.00    99.00    99.00
 8  2 28 10    15.0 1   296.0     1.00    12.80    99.00    99.00
 8  2 28 11    15.0 1   309.0     1.00    14.30    99.00    99.00
 8  2 28 12    15.0 1   309.0     1.50    15.90    99.00    99.00
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 8  2 28 13    15.0 1   320.0     2.10    17.30    99.00    99.00
 8  2 28 14    15.0 1   345.0     2.10    18.10    99.00    99.00
 8  2 28 15    15.0 1   352.0     2.10    18.60    99.00    99.00
 8  2 28 16    15.0 1   349.0     2.10    18.80    99.00    99.00
 8  2 28 17    15.0 1   352.0     1.50    18.60    99.00    99.00
 8  2 28 18    15.0 1     0.0     0.00    17.80    99.00    99.00
 8  2 28 19    15.0 1     0.0     0.00    16.50    99.00    99.00
 8  2 28 20    15.0 1     0.0     0.00    15.10    99.00    99.00
 8  2 28 21    15.0 1     0.0     0.00    14.10    99.00    99.00
 8  2 28 22    15.0 1     0.0     0.00    13.10    99.00    99.00
 8  2 28 23    15.0 1     0.0     0.00    12.30    99.00    99.00
 8  2 28 24    15.0 1     0.0     0.00    11.60    99.00    99.00
 8  2 29  1    15.0 1     0.0     0.00    11.10    99.00    99.00
 8  2 29  2    15.0 1   299.0     1.00    10.80    99.00    99.00
 8  2 29  3    15.0 1   298.0     1.50    10.60    99.00    99.00
 8  2 29  4    15.0 1   297.0     2.60    10.30    99.00    99.00
 8  2 29  5    15.0 1   314.0     2.60     9.90    99.00    99.00
 8  2 29  6    15.0 1   318.0     2.10     9.50    99.00    99.00
 8  2 29  7    15.0 1   335.0     1.50     9.10    99.00    99.00
 8  2 29  8    15.0 1   342.0     2.10    10.10    99.00    99.00
 8  2 29  9    15.0 1   328.0     2.10    12.10    99.00    99.00
 8  2 29 10    15.0 1   324.0     1.50    14.50    99.00    99.00
 8  2 29 11    15.0 1   314.0     1.50    16.90    99.00    99.00
 8  2 29 12    15.0 1   307.0     2.10    18.60    99.00    99.00
 8  2 29 13    15.0 1   325.0     1.50    19.90    99.00    99.00
 8  2 29 14    15.0 1   335.0     1.50    21.00    99.00    99.00
 8  2 29 15    15.0 1   354.0     1.50    21.60    99.00    99.00
 8  2 29 16    15.0 1    15.0     2.60    21.90    99.00    99.00
 8  2 29 17    15.0 1    31.0     2.60    21.40    99.00    99.00
 8  2 29 18    15.0 1    35.0     2.60    20.10    99.00    99.00
 8  2 29 19    15.0 1     0.0     0.00    18.90    99.00    99.00
 8  2 29 20    15.0 1   259.0     2.10    17.60    99.00    99.00
 8  2 29 21    15.0 1   269.0     4.60    15.60    99.00    99.00
 8  2 29 22    15.0 1   279.0     4.60    14.00    99.00    99.00
 8  2 29 23    15.0 1   273.0     4.10    13.50    99.00    99.00
 8  2 29 24    15.0 1   300.0     4.10    12.90    99.00    99.00
 8  3  1  1    15.0 1   325.0     3.60    12.40    99.00    99.00
 8  3  1  2    15.0 1   339.0     2.60    12.00    99.00    99.00
 8  3  1  3    15.0 1   349.0     0.50    11.60    99.00    99.00
 8  3  1  4    15.0 1   320.0     1.00    11.50    99.00    99.00
 8  3  1  5    15.0 1   300.0     1.00    11.60    99.00    99.00
 8  3  1  6    15.0 1   325.0     0.50    11.40    99.00    99.00
 8  3  1  7    15.0 1   356.0     0.50    11.00    99.00    99.00
 8  3  1  8    15.0 1   355.0     5.10    11.80    99.00    99.00
 8  3  1  9    15.0 1   343.0     5.70    11.80    99.00    99.00
 8  3  1 10    15.0 1   327.0     5.70    11.10    99.00    99.00
 8  3  1 11    15.0 1   327.0     4.60    11.10    99.00    99.00
 8  3  1 12    15.0 1   338.0     3.60    12.10    99.00    99.00
 8  3  1 13    15.0 1   331.0     4.60    12.80    99.00    99.00
 8  3  1 14    15.0 1   326.0     5.10    13.00    99.00    99.00
 8  3  1 15    15.0 1   326.0     3.10    13.10    99.00    99.00
 8  3  1 16    15.0 1   308.0     1.00    13.60    99.00    99.00
 8  3  1 17    15.0 1   310.0     2.60    13.90    99.00    99.00
 8  3  1 18    15.0 1   316.0     4.10    13.10    99.00    99.00
 8  3  1 19    15.0 1   333.0     4.10    11.80    99.00    99.00
 8  3  1 20    15.0 1   328.0     3.60    10.90    99.00    99.00
 8  3  1 21    15.0 1   325.0     2.10    10.30    99.00    99.00
 8  3  1 22    15.0 1   314.0     1.00     9.80    99.00    99.00
 8  3  1 23    15.0 1   290.0     0.50     9.40    99.00    99.00
 8  3  1 24    15.0 1   299.0     0.50     9.00    99.00    99.00
 8  3  2  1    15.0 1   269.0     0.50     8.40    99.00    99.00
 8  3  2  2    15.0 1   268.0     1.00     7.90    99.00    99.00
 8  3  2  3    15.0 1   259.0     1.00     7.50    99.00    99.00
 8  3  2  4    15.0 1   253.0     1.00     7.00    99.00    99.00
 8  3  2  5    15.0 1   235.0     1.00     6.50    99.00    99.00
 8  3  2  6    15.0 1   234.0     1.50     6.10    99.00    99.00
 8  3  2  7    15.0 1   229.0     1.50     5.60    99.00    99.00
 8  3  2  8    15.0 1   248.0     1.00     7.10    99.00    99.00
 8  3  2  9    15.0 1   253.0     1.00     9.00    99.00    99.00
 8  3  2 10    15.0 1   264.0     1.50    10.60    99.00    99.00
 8  3  2 11    15.0 1   267.0     1.50    12.10    99.00    99.00
 8  3  2 12    15.0 1   275.0     2.10    13.50    99.00    99.00
 8  3  2 13    15.0 1   286.0     2.10    14.80    99.00    99.00
 8  3  2 14    15.0 1   306.0     2.60    15.90    99.00    99.00
 8  3  2 15    15.0 1   323.0     3.10    16.50    99.00    99.00
 8  3  2 16    15.0 1   323.0     2.60    16.80    99.00    99.00
 8  3  2 17    15.0 1   352.0     2.10    16.50    99.00    99.00
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 8  3  2 18    15.0 1     0.0      0.00    15.60    99.00    99.00
 8  3  2 19    15.0 1    53.0      1.00    14.50    99.00    99.00
 8  3  2 20    15.0 1   126.0      0.50    13.10    99.00    99.00
 8  3  2 21    15.0 1   192.0      1.50    11.80    99.00    99.00
 8  3  2 22    15.0 1   208.0      3.10    11.10    99.00    99.00
 8  3  2 23    15.0 1   211.0      4.10    10.80    99.00    99.00
 8  3  2 24    15.0 1   215.0      4.10    10.10    99.00    99.00
 8  3  3  1    15.0 1   200.0      3.60     9.50    99.00    99.00
 8  3  3  2    15.0 1   195.0      3.10     8.60    99.00    99.00
 8  3  3  3    15.0 1   173.0      2.60     8.10    99.00    99.00
 8  3  3  4    15.0 1   146.0      2.10     7.60    99.00    99.00
 8  3  3  5    15.0 1   138.0      2.10     7.30    99.00    99.00
 8  3  3  6    15.0 1   116.0      1.50     6.60    99.00    99.00
 8  3  3  7    15.0 1    97.0      1.00     6.10    99.00    99.00
 8  3  3  8    15.0 1    79.0      1.50     7.50    99.00    99.00
 8  3  3  9    15.0 1    47.0      1.50    10.30    99.00    99.00
 8  3  3 10    15.0 1    34.0      1.50    12.50    99.00    99.00
 8  3  3 11    15.0 1    10.0      1.00    14.90    99.00    99.00
 8  3  3 12    15.0 1   346.0      1.00    16.40    99.00    99.00
 8  3  3 13    15.0 1   353.0      1.00    17.60    99.00    99.00
 8  3  3 14    15.0 1   348.0      1.50    18.40    99.00    99.00
 8  3  3 15    15.0 1     0.0      0.00    18.60    99.00    99.00
 8  3  3 16    15.0 1     9.0      2.60    18.60    99.00    99.00
 8  3  3 17    15.0 1    24.0      2.60    18.00    99.00    99.00
 8  3  3 18    15.0 1    34.0      2.60    16.90    99.00    99.00
 8  3  3 19    15.0 1    33.0      1.50    15.60    99.00    99.00
 8  3  3 20    15.0 1   308.0      0.50    14.10    99.00    99.00
 8  3  3 21    15.0 1   249.0      0.50    12.80    99.00    99.00
 8  3  3 22    15.0 1   280.0      1.50    11.80    99.00    99.00
 8  3  3 23    15.0 1   279.0      2.60    11.40    99.00    99.00
 8  3  3 24    15.0 1   287.0      2.60    11.10    99.00    99.00
 8  3  4  1    15.0 1   290.0      1.50    11.10    99.00    99.00
 8  3  4  2    15.0 1   310.0      1.00    11.00    99.00    99.00
 8  3  4  3    15.0 1   316.0      1.00    10.40    99.00    99.00
 8  3  4  4    15.0 1   297.0      1.00     9.80    99.00    99.00
 8  3  4  5    15.0 1   310.0      2.10     9.40    99.00    99.00
 8  3  4  6    15.0 1   297.0      2.10     8.90    99.00    99.00
 8  3  4  7    15.0 1   295.0      1.50     8.40    99.00    99.00
 8  3  4  8    15.0 1   331.0      1.50     9.60    99.00    99.00
 8  3  4  9    15.0 1   336.0      0.50    11.10    99.00    99.00
 8  3  4 10    15.0 1     0.0      0.00    13.40    99.00    99.00
 8  3  4 11    15.0 1     0.0      0.00    15.10    99.00    99.00
 8  3  4 12    15.0 1     0.0      0.00    16.50    99.00    99.00
 8  3  4 13    15.0 1   305.0      0.50    17.60    99.00    99.00
 8  3  4 14    15.0 1   314.0      1.00    18.60    99.00    99.00
 8  3  4 15    15.0 1   330.0      1.50    19.10    99.00    99.00
 8  3  4 16    15.0 1   341.0      2.60    19.10    99.00    99.00
 8  3  4 17    15.0 1     0.0      0.00    18.60    99.00    99.00
 8  3  4 18    15.0 1    23.0      1.50    17.80    99.00    99.00
 8  3  4 19    15.0 1     0.0      0.00    16.50    99.00    99.00
 8  3  4 20    15.0 1   284.0      0.50    15.10    99.00    99.00
 8  3  4 21    15.0 1   266.0      0.50    13.80    99.00    99.00
 8  3  4 22    15.0 1   268.0      0.50    12.80    99.00    99.00
 8  3  4 23    15.0 1   294.0      0.50    12.00    99.00    99.00
 8  3  4 24    15.0 1   307.0      0.50    11.10    99.00    99.00
 8  3  5  1    15.0 1   286.0      1.00    10.60    99.00    99.00
 8  3  5  2    15.0 1   290.0      2.10    10.10    99.00    99.00
 8  3  5  3    15.0 1   290.0      2.60     9.40    99.00    99.00
 8  3  5  4    15.0 1   287.0      3.10     8.80    99.00    99.00
 8  3  5  5    15.0 1   290.0      3.10     8.10    99.00    99.00
 8  3  5  6    15.0 1   281.0      3.10     7.60    99.00    99.00
 8  3  5  7    15.0 1   270.0      3.10     7.00    99.00    99.00
 8  3  5  8    15.0 1   325.0      3.60     8.60    99.00    99.00
 8  3  5  9    15.0 1   318.0      1.00    10.40    99.00    99.00
 8  3  5 10    15.0 1   271.0      1.00    12.10    99.00    99.00
 8  3  5 11    15.0 1   278.0      1.50    13.60    99.00    99.00
 8  3  5 12    15.0 1   280.0      2.10    15.30    99.00    99.00
 8  3  5 13    15.0 1   292.0      2.10    16.50    99.00    99.00
 8  3  5 14    15.0 1   307.0      1.50    17.60    99.00    99.00
 8  3  5 15    15.0 1   331.0      1.50    18.10    99.00    99.00
 8  3  5 16    15.0 1   339.0      2.10    18.90    99.00    99.00
 8  3  5 17    15.0 1     1.0      2.60    18.50    99.00    99.00
 8  3  5 18    15.0 1     9.0      3.60    17.60    99.00    99.00
 8  3  5 19    15.0 1    16.0      3.10    16.60    99.00    99.00
 8  3  5 20    15.0 1    35.0      2.10    15.50    99.00    99.00
 8  3  5 21    15.0 1     0.0      0.00    14.10    99.00    99.00
 8  3  5 22    15.0 1   220.0      1.00    12.80    99.00    99.00
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 8  3  5 23    15.0 1   232.0     1.50    12.00    99.00    99.00
 8  3  5 24    15.0 1   240.0     1.50    11.40    99.00    99.00
 8  3  6  1    15.0 1   274.0     1.50    10.80    99.00    99.00
 8  3  6  2    15.0 1   292.0     2.60    10.10    99.00    99.00
 8  3  6  3    15.0 1   301.0     4.10     9.30    99.00    99.00
 8  3  6  4    15.0 1   296.0     4.10     8.10    99.00    99.00
 8  3  6  5    15.0 1   297.0     3.60     7.40    99.00    99.00
 8  3  6  6    15.0 1   301.0     3.10     7.00    99.00    99.00
 8  3  6  7    15.0 1   286.0     2.60     6.60    99.00    99.00
 8  3  6  8    15.0 1   301.0     2.60     7.30    99.00    99.00
 8  3  6  9    15.0 1   306.0     2.60     8.60    99.00    99.00
 8  3  6 10    15.0 1   298.0     0.50    10.00    99.00    99.00
 8  3  6 11    15.0 1   266.0     0.50    12.40    99.00    99.00
 8  3  6 12    15.0 1   293.0     1.00    13.60    99.00    99.00
 8  3  6 13    15.0 1   299.0     0.50    14.50    99.00    99.00
 8  3  6 14    15.0 1   302.0     1.00    15.00    99.00    99.00
 8  3  6 15    15.0 1   328.0     1.00    15.50    99.00    99.00
 8  3  6 16    15.0 1     0.0     0.00    16.00    99.00    99.00
 8  3  6 17    15.0 1    32.0     1.50    15.80    99.00    99.00
 8  3  6 18    15.0 1    62.0     1.50    15.10    99.00    99.00
 8  3  6 19    15.0 1    91.0     0.50    14.40    99.00    99.00
 8  3  6 20    15.0 1     0.0     0.00    13.60    99.00    99.00
 8  3  6 21    15.0 1     0.0     0.00    13.00    99.00    99.00
 8  3  6 22    15.0 1     0.0     0.00    12.50    99.00    99.00
 8  3  6 23    15.0 1    25.0     0.50    11.90    99.00    99.00
 8  3  6 24    15.0 1    30.0     1.00    11.00    99.00    99.00
 8  3  7  1    15.0 1    22.0     1.50    10.10    99.00    99.00
 8  3  7  2    15.0 1    18.0     1.00     9.30    99.00    99.00
 8  3  7  3    15.0 1   358.0     0.50     8.60    99.00    99.00
 8  3  7  4    15.0 1   286.0     0.50     8.10    99.00    99.00
 8  3  7  5    15.0 1   302.0     1.00     7.60    99.00    99.00
 8  3  7  6    15.0 1   304.0     1.50     7.30    99.00    99.00
 8  3  7  7    15.0 1   298.0     2.10     7.10    99.00    99.00
 8  3  7  8    15.0 1   310.0     2.60     8.90    99.00    99.00
 8  3  7  9    15.0 1   310.0     2.10    10.80    99.00    99.00
 8  3  7 10    15.0 1   314.0     1.00    13.00    99.00    99.00
 8  3  7 11    15.0 1   301.0     1.00    14.90    99.00    99.00
 8  3  7 12    15.0 1   310.0     1.50    16.50    99.00    99.00
 8  3  7 13    15.0 1   333.0     1.50    18.00    99.00    99.00
 8  3  7 14    15.0 1   345.0     2.10    19.00    99.00    99.00
 8  3  7 15    15.0 1   341.0     2.60    19.30    99.00    99.00
 8  3  7 16    15.0 1   352.0     2.60    19.00    99.00    99.00
 8  3  7 17    15.0 1   359.0     2.60    18.10    99.00    99.00
 8  3  7 18    15.0 1     4.0     2.60    17.10    99.00    99.00
 8  3  7 19    15.0 1   354.0     1.00    16.10    99.00    99.00
 8  3  7 20    15.0 1   260.0     0.50    15.30    99.00    99.00
 8  3  7 21    15.0 1   281.0     1.00    14.40    99.00    99.00
 8  3  7 22    15.0 1   286.0     1.50    13.90    99.00    99.00
 8  3  7 23    15.0 1   307.0     1.50    13.40    99.00    99.00
 8  3  7 24    15.0 1   324.0     2.10    12.90    99.00    99.00
 8  3  8  1    15.0 1   319.0     2.10    12.10    99.00    99.00
 8  3  8  2    15.0 1   313.0     1.50    11.50    99.00    99.00
 8  3  8  3    15.0 1   298.0     2.10    10.80    99.00    99.00
 8  3  8  4    15.0 1   312.0     2.10    10.10    99.00    99.00
 8  3  8  5    15.0 1   310.0     1.50     9.60    99.00    99.00
 8  3  8  6    15.0 1   302.0     1.00     9.10    99.00    99.00
 8  3  8  7    15.0 1   305.0     0.50     8.60    99.00    99.00
 8  3  8  8    15.0 1   330.0     1.00     9.90    99.00    99.00
 8  3  8  9    15.0 1   332.0     0.50    11.60    99.00    99.00
 8  3  8 10    15.0 1   306.0     0.50    13.60    99.00    99.00
 8  3  8 11    15.0 1   315.0     1.00    15.10    99.00    99.00
 8  3  8 12    15.0 1   316.0     2.10    16.60    99.00    99.00
 8  3  8 13    15.0 1   322.0     3.10    17.90    99.00    99.00
 8  3  8 14    15.0 1   334.0     4.10    18.60    99.00    99.00
 8  3  8 15    15.0 1   340.0     4.60    19.00    99.00    99.00
 8  3  8 16    15.0 1   344.0     5.10    18.90    99.00    99.00
 8  3  8 17    15.0 1   335.0     3.10    18.50    99.00    99.00
 8  3  8 18    15.0 1   325.0     3.10    17.60    99.00    99.00
 8  3  8 19    15.0 1   316.0     2.60    16.40    99.00    99.00
 8  3  8 20    15.0 1   326.0     1.50    15.40    99.00    99.00
 8  3  8 21    15.0 1   338.0     1.50    14.50    99.00    99.00
 8  3  8 22    15.0 1   337.0     1.00    13.60    99.00    99.00
 8  3  8 23    15.0 1   337.0     0.50    13.00    99.00    99.00
 8  3  8 24    15.0 1   348.0     0.50    12.50    99.00    99.00
 8  3  9  1    15.0 1   309.0     0.50    12.00    99.00    99.00
 8  3  9  2    15.0 1   260.0     0.50    11.50    99.00    99.00
 8  3  9  3    15.0 1   239.0     1.00    11.10    99.00    99.00
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 8  3  9  4    15.0 1   240.0     2.10    10.60    99.00    99.00
 8  3  9  5    15.0 1   247.0     3.10    10.30    99.00    99.00
 8  3  9  6    15.0 1   261.0     3.60     9.80    99.00    99.00
 8  3  9  7    15.0 1   269.0     3.60     9.30    99.00    99.00
 8  3  9  8    15.0 1   297.0     2.60    10.50    99.00    99.00
 8  3  9  9    15.0 1   305.0     2.10    12.10    99.00    99.00
 8  3  9 10    15.0 1   280.0     2.10    14.40    99.00    99.00
 8  3  9 11    15.0 1   292.0     2.10    16.00    99.00    99.00
 8  3  9 12    15.0 1   305.0     2.10    17.50    99.00    99.00
 8  3  9 13    15.0 1   309.0     2.10    18.60    99.00    99.00
 8  3  9 14    15.0 1   316.0     2.10    19.60    99.00    99.00
 8  3  9 15    15.0 1   340.0     2.10    20.10    99.00    99.00
 8  3  9 16    15.0 1   348.0     2.10    20.10    99.00    99.00
 8  3  9 17    15.0 1     8.0     2.60    19.80    99.00    99.00
 8  3  9 18    15.0 1    24.0     2.60    18.80    99.00    99.00
 8  3  9 19    15.0 1    26.0     2.60    17.80    99.00    99.00
 8  3  9 20    15.0 1    39.0     1.00    16.80    99.00    99.00
 8  3  9 21    15.0 1     0.0     0.00    15.80    99.00    99.00
 8  3  9 22    15.0 1     0.0     0.00    14.90    99.00    99.00
 8  3  9 23    15.0 1     0.0     0.00    14.30    99.00    99.00
 8  3  9 24    15.0 1     0.0     0.00    13.60    99.00    99.00
 8  3 10  1    15.0 1     0.0     0.00    13.40    99.00    99.00
 8  3 10  2    15.0 1     0.0     0.00    13.00    99.00    99.00
 8  3 10  3    15.0 1     0.0     0.00    12.60    99.00    99.00
 8  3 10  4    15.0 1   294.0     0.50    12.40    99.00    99.00
 8  3 10  5    15.0 1   315.0     1.00    12.30    99.00    99.00
 8  3 10  6    15.0 1   312.0     1.50    12.30    99.00    99.00
 8  3 10  7    15.0 1   307.0     1.00    12.10    99.00    99.00
 8  3 10  8    15.0 1   302.0     1.00    12.10    99.00    99.00
 8  3 10  9    15.0 1   318.0     2.60    13.50    99.00    99.00
 8  3 10 10    15.0 1   314.0     1.50    15.10    99.00    99.00
 8  3 10 11    15.0 1   308.0     1.00    17.10    99.00    99.00
 8  3 10 12    15.0 1   313.0     1.50    18.10    99.00    99.00
 8  3 10 13    15.0 1   317.0     2.60    18.50    99.00    99.00
 8  3 10 14    15.0 1   327.0     2.60    18.60    99.00    99.00
 8  3 10 15    15.0 1   355.0     2.60    18.90    99.00    99.00
 8  3 10 16    15.0 1    14.0     2.60    19.00    99.00    99.00
 8  3 10 17    15.0 1    19.0     2.10    18.60    99.00    99.00
 8  3 10 18    15.0 1    56.0     0.50    17.90    99.00    99.00
 8  3 10 19    15.0 1   235.0     0.50    17.10    99.00    99.00
 8  3 10 20    15.0 1   257.0     1.50    16.50    99.00    99.00
 8  3 10 21    15.0 1   260.0     0.50    16.30    99.00    99.00
 8  3 10 22    15.0 1     0.0     0.00    16.00    99.00    99.00
 8  3 10 23    15.0 1    81.0     0.50    15.60    99.00    99.00
 8  3 10 24    15.0 1    83.0     1.00    14.90    99.00    99.00
 8  3 11  1    15.0 1   110.0     1.00    14.10    99.00    99.00
 8  3 11  2    15.0 1   107.0     0.50    13.80    99.00    99.00
 8  3 11  3    15.0 1   330.0     0.50    13.30    99.00    99.00
 8  3 11  4    15.0 1   330.0     2.60    12.80    99.00    99.00
 8  3 11  5    15.0 1   319.0     3.10    12.00    99.00    99.00
 8  3 11  6    15.0 1   311.0     3.10    11.30    99.00    99.00
 8  3 11  7    15.0 1   309.0     2.60    10.80    99.00    99.00
 8  3 11  8    15.0 1   337.0     3.10    12.00    99.00    99.00
 8  3 11  9    15.0 1   335.0     1.50    13.60    99.00    99.00
 8  3 11 10    15.0 1   309.0     0.50    15.90    99.00    99.00
 8  3 11 11    15.0 1     0.0     0.00    17.50    99.00    99.00
 8  3 11 12    15.0 1     0.0     0.00    19.00    99.00    99.00
 8  3 11 13    15.0 1     0.0     0.00    20.10    99.00    99.00
 8  3 11 14    15.0 1     0.0     0.00    21.10    99.00    99.00
 8  3 11 15    15.0 1   320.0     1.00    21.80    99.00    99.00
 8  3 11 16    15.0 1   343.0     2.10    21.80    99.00    99.00
 8  3 11 17    15.0 1     2.0     3.10    21.10    99.00    99.00
 8  3 11 18    15.0 1    15.0     4.10    19.80    99.00    99.00
 8  3 11 19    15.0 1    14.0     3.60    18.50    99.00    99.00
 8  3 11 20    15.0 1   351.0     3.60    17.60    99.00    99.00
 8  3 11 21    15.0 1   327.0     3.60    16.80    99.00    99.00
 8  3 11 22    15.0 1   317.0     4.10    15.80    99.00    99.00
 8  3 11 23    15.0 1   327.0     4.10    14.60    99.00    99.00
 8  3 11 24    15.0 1   340.0     3.60    13.80    99.00    99.00
 8  3 12  1    15.0 1     0.0     0.00    13.10    99.00    99.00
 8  3 12  2    15.0 1     9.0     2.10    12.40    99.00    99.00
 8  3 12  3    15.0 1     0.0     0.00    11.90    99.00    99.00
 8  3 12  4    15.0 1   338.0     0.50    11.50    99.00    99.00
 8  3 12  5    15.0 1     0.0     0.00    11.10    99.00    99.00
 8  3 12  6    15.0 1     0.0     0.00    10.90    99.00    99.00
 8  3 12  7    15.0 1     0.0     0.00    10.60    99.00    99.00
 8  3 12  8    15.0 1   323.0     1.00    11.10    99.00    99.00
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 8  3 12  9    15.0 1   338.0     1.00    12.40    99.00    99.00
 8  3 12 10    15.0 1   324.0     1.00    13.90    99.00    99.00
 8  3 12 11    15.0 1   307.0     1.00    15.40    99.00    99.00
 8  3 12 12    15.0 1   308.0     1.50    16.80    99.00    99.00
 8  3 12 13    15.0 1   319.0     2.10    18.10    99.00    99.00
 8  3 12 14    15.0 1   327.0     2.60    19.10    99.00    99.00
 8  3 12 15    15.0 1   333.0     3.10    19.60    99.00    99.00
 8  3 12 16    15.0 1   328.0     3.60    19.60    99.00    99.00
 8  3 12 17    15.0 1   338.0     2.60    19.30    99.00    99.00
 8  3 12 18    15.0 1   352.0     2.60    18.60    99.00    99.00
 8  3 12 19    15.0 1     2.0     2.10    17.40    99.00    99.00
 8  3 12 20    15.0 1     0.0     0.00    16.10    99.00    99.00
 8  3 12 21    15.0 1   335.0     1.00    15.30    99.00    99.00
 8  3 12 22    15.0 1   315.0     1.00    14.40    99.00    99.00
 8  3 12 23    15.0 1   313.0     1.50    13.60    99.00    99.00
 8  3 12 24    15.0 1   309.0     1.50    13.10    99.00    99.00
 8  3 13  1    15.0 1   310.0     1.00    12.60    99.00    99.00
 8  3 13  2    15.0 1   322.0     0.50    12.10    99.00    99.00
 8  3 13  3    15.0 1   344.0     0.50    11.60    99.00    99.00
 8  3 13  4    15.0 1   355.0     0.50    11.10    99.00    99.00
 8  3 13  5    15.0 1     0.0     0.00    10.60    99.00    99.00
 8  3 13  6    15.0 1     0.0     0.00    10.00    99.00    99.00
 8  3 13  7    15.0 1     0.0     0.00     9.50    99.00    99.00
 8  3 13  8    15.0 1     0.0     0.00    11.00    99.00    99.00
 8  3 13  9    15.0 1     0.0     0.00    12.80    99.00    99.00
 8  3 13 10    15.0 1     0.0     0.00    14.10    99.00    99.00
 8  3 13 11    15.0 1   281.0     0.50    15.50    99.00    99.00
 8  3 13 12    15.0 1   288.0     1.00    16.60    99.00    99.00
 8  3 13 13    15.0 1   293.0     1.50    17.60    99.00    99.00
 8  3 13 14    15.0 1   312.0     2.10    18.40    99.00    99.00
 8  3 13 15    15.0 1   322.0     2.60    18.60    99.00    99.00
 8  3 13 16    15.0 1   330.0     3.10    18.60    99.00    99.00
 8  3 13 17    15.0 1   336.0     3.10    18.10    99.00    99.00
 8  3 13 18    15.0 1   351.0     4.10    16.90    99.00    99.00
 8  3 13 19    15.0 1   351.0     4.10    15.10    99.00    99.00
 8  3 13 20    15.0 1   350.0     3.60    14.00    99.00    99.00
 8  3 13 21    15.0 1   338.0     2.60    13.50    99.00    99.00
 8  3 13 22    15.0 1   310.0     2.10    13.00    99.00    99.00
 8  3 13 23    15.0 1   297.0     2.60    12.50    99.00    99.00
 8  3 13 24    15.0 1   300.0     3.10    12.10    99.00    99.00
 8  3 14  1    15.0 1   312.0     3.60    11.50    99.00    99.00
 8  3 14  2    15.0 1   335.0     4.10    10.60    99.00    99.00
 8  3 14  3    15.0 1   328.0     3.60     9.60    99.00    99.00
 8  3 14  4    15.0 1   318.0     3.10     9.30    99.00    99.00
 8  3 14  5    15.0 1   324.0     3.10     8.80    99.00    99.00
 8  3 14  6    15.0 1   326.0     3.10     8.50    99.00    99.00
 8  3 14  7    15.0 1   333.0     3.10     8.10    99.00    99.00
 8  3 14  8    15.0 1   336.0     5.10     9.00    99.00    99.00
 8  3 14  9    15.0 1   343.0     4.10     9.10    99.00    99.00
 8  3 14 10    15.0 1   344.0     3.60     9.30    99.00    99.00
 8  3 14 11    15.0 1   352.0     2.60    10.10    99.00    99.00
 8  3 14 12    15.0 1   346.0     1.50    12.30    99.00    99.00
 8  3 14 13    15.0 1   336.0     1.50    14.00    99.00    99.00
 8  3 14 14    15.0 1   342.0     2.60    14.90    99.00    99.00
 8  3 14 15    15.0 1   346.0     3.60    15.40    99.00    99.00
 8  3 14 16    15.0 1   360.0     4.10    15.40    99.00    99.00
 8  3 14 17    15.0 1     0.0     0.00    14.90    99.00    99.00
 8  3 14 18    15.0 1     0.0     0.00    13.90    99.00    99.00
 8  3 14 19    15.0 1   354.0     3.60    13.00    99.00    99.00
 8  3 14 20    15.0 1   338.0     3.60    12.00    99.00    99.00
 8  3 14 21    15.0 1   316.0     3.60    11.30    99.00    99.00
 8  3 14 22    15.0 1   306.0     3.60    11.30    99.00    99.00
 8  3 14 23    15.0 1   304.0     4.10    10.60    99.00    99.00
 8  3 14 24    15.0 1   298.0     4.10     9.80    99.00    99.00
 8  3 15  1    15.0 1   301.0     4.60     9.10    99.00    99.00
 8  3 15  2    15.0 1   302.0     3.60     8.90    99.00    99.00
 8  3 15  3    15.0 1   301.0     3.10     8.60    99.00    99.00
 8  3 15  4    15.0 1   291.0     3.10     8.30    99.00    99.00
 8  3 15  5    15.0 1   288.0     3.10     8.00    99.00    99.00
 8  3 15  6    15.0 1   281.0     2.60     7.80    99.00    99.00
 8  3 15  7    15.0 1   277.0     3.10     7.60    99.00    99.00
 8  3 15  8    15.0 1   290.0     3.60     8.50    99.00    99.00
 8  3 15  9    15.0 1   291.0     2.60     9.60    99.00    99.00
 8  3 15 10    15.0 1   282.0     2.10    10.60    99.00    99.00
 8  3 15 11    15.0 1   273.0     2.10    11.80    99.00    99.00
 8  3 15 12    15.0 1   280.0     1.50    12.60    99.00    99.00
 8  3 15 13    15.0 1   286.0     2.10    13.50    99.00    99.00
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 8   3 15 14    15.0 1   287.0     3.60    13.50    99.00    99.00
 8   3 15 15    15.0 1   304.0     4.60    12.40    99.00    99.00
 8   3 15 16    15.0 1   326.0     6.70    11.60    99.00    99.00
 8   3 15 17    15.0 1   318.0     5.10    11.00    99.00    99.00
 8   3 15 18    15.0 1   311.0     3.10    10.10    99.00    99.00
 8   3 15 19    15.0 1   286.0     3.10     9.60    99.00    99.00
 8   3 15 20    15.0 1   276.0     3.10     9.40    99.00    99.00
 8   3 15 21    15.0 1   268.0     3.10     9.00    99.00    99.00
 8   3 15 22    15.0 1   291.0     3.10     8.30    99.00    99.00
 8   3 15 23    15.0 1   286.0     2.60     8.10    99.00    99.00
 8   3 15 24    15.0 1   296.0     1.50     8.40    99.00    99.00
 8   3 16  1    15.0 1   287.0     3.60     8.10    99.00    99.00
 8   3 16  2    15.0 1   300.0     3.60     7.60    99.00    99.00
 8   3 16  3    15.0 1   317.0     3.10     6.60    99.00    99.00
 8   3 16  4    15.0 1   324.0     1.50     6.50    99.00    99.00
 8   3 16  5    15.0 1   172.0     1.00     6.40    99.00    99.00
 8   3 16  6    15.0 1   207.0     1.50     6.30    99.00    99.00
 8   3 16  7    15.0 1   226.0     2.60     6.00    99.00    99.00
 8   3 16  8    15.0 1   349.0     6.20     8.10    99.00    99.00
 8   3 16  9    15.0 1   349.0     7.20    10.10    99.00    99.00
 8   3 16 10    15.0 1   354.0     6.20    11.50    99.00    99.00
 8   3 16 11    15.0 1   344.0     5.70    12.80    99.00    99.00
 8   3 16 12    15.0 1   336.0     5.70    13.90    99.00    99.00
 8   3 16 13    15.0 1   328.0     6.20    14.60    99.00    99.00
 8   3 16 14    15.0 1   335.0     5.70    15.30    99.00    99.00
 8   3 16 15    15.0 1   321.0     5.70    15.80    99.00    99.00
 8   3 16 16    15.0 1   322.0     5.70    16.00    99.00    99.00
 8   3 16 17    15.0 1   301.0     3.60    15.30    99.00    99.00
 8   3 16 18    15.0 1   278.0     3.60    14.10    99.00    99.00
 8   3 16 19    15.0 1   238.0     2.60    12.80    99.00    99.00
 8   3 16 20    15.0 1   190.0     3.60    11.30    99.00    99.00
 8   3 16 21    15.0 1   177.0     3.10    10.00    99.00    99.00
 8   3 16 22    15.0 1   201.0     1.00     9.00    99.00    99.00
 8   3 16 23    15.0 1     0.0     0.00     8.10    99.00    99.00
 8   3 16 24    15.0 1   268.0     1.00     7.40    99.00    99.00
 8   3 17  1    15.0 1   267.0     2.10     6.90    99.00    99.00
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 8   3 17  3    15.0 1   285.0     3.60     5.60    99.00    99.00
 8   3 17  4    15.0 1   281.0     3.60     5.10    99.00    99.00
 8   3 17  5    15.0 1   288.0     3.60     4.50    99.00    99.00
 8   3 17  6    15.0 1   294.0     3.10     4.10    99.00    99.00
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 8   3 17  8    15.0 1   344.0     2.60     6.40    99.00    99.00
 8   3 17  9    15.0 1   353.0     1.00     8.60    99.00    99.00
 8   3 17 10    15.0 1   329.0     0.50    10.50    99.00    99.00
 8   3 17 11    15.0 1   323.0     0.50    12.30    99.00    99.00
 8   3 17 12    15.0 1   320.0     1.00    13.80    99.00    99.00
 8   3 17 13    15.0 1   323.0     1.50    15.00    99.00    99.00
 8   3 17 14    15.0 1   331.0     1.50    15.80    99.00    99.00
 8   3 17 15    15.0 1   345.0     1.50    16.30    99.00    99.00
 8   3 17 16    15.0 1   354.0     2.10    16.50    99.00    99.00
 8   3 17 17    15.0 1   350.0     1.50    16.40    99.00    99.00
 8   3 17 18    15.0 1     0.0     0.00    15.90    99.00    99.00
 8   3 17 19    15.0 1   173.0     0.50    14.50    99.00    99.00
 8   3 17 20    15.0 1   167.0     0.50    13.00    99.00    99.00
 8   3 17 21    15.0 1   169.0     2.10    11.80    99.00    99.00
 8   3 17 22    15.0 1   162.0     3.10    10.90    99.00    99.00
 8   3 17 23    15.0 1   164.0     3.10    10.10    99.00    99.00
 8   3 17 24    15.0 1   148.0     3.10     9.50    99.00    99.00
 8   3 18  1    15.0 1   155.0     2.60     8.80    99.00    99.00
 8   3 18  2    15.0 1   142.0     2.10     8.30    99.00    99.00
 8   3 18  3    15.0 1   137.0     1.50     7.90    99.00    99.00
 8   3 18  4    15.0 1   183.0     0.50     7.50    99.00    99.00
 8   3 18  5    15.0 1   270.0     0.50     7.10    99.00    99.00
 8   3 18  6    15.0 1   268.0     1.00     6.80    99.00    99.00
 8   3 18  7    15.0 1   252.0     1.00     6.60    99.00    99.00
 8   3 18  8    15.0 1   295.0     1.00     9.00    99.00    99.00
 8   3 18  9    15.0 1     0.0     0.00    11.10    99.00    99.00
 8   3 18 10    15.0 1     0.0     0.00    13.60    99.00    99.00
 8   3 18 11    15.0 1     0.0     0.00    15.30    99.00    99.00
 8   3 18 12    15.0 1   309.0     0.50    17.00    99.00    99.00
 8   3 18 13    15.0 1   314.0     1.50    18.40    99.00    99.00
 8   3 18 14    15.0 1   330.0     2.10    19.30    99.00    99.00
 8   3 18 15    15.0 1   338.0     2.60    19.50    99.00    99.00
 8   3 18 16    15.0 1   343.0     2.60    19.40    99.00    99.00
 8   3 18 17    15.0 1   342.0     2.10    19.00    99.00    99.00
 8   3 18 18    15.0 1   331.0     2.10    18.30    99.00    99.00
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 8  3 18 19    15.0 1   324.0     2.10    17.40    99.00    99.00
 8  3 18 20    15.0 1   333.0     1.50    16.60    99.00    99.00
 8  3 18 21    15.0 1   338.0     1.50    16.10    99.00    99.00
 8  3 18 22    15.0 1   331.0     2.60    15.50    99.00    99.00
 8  3 18 23    15.0 1   341.0     3.60    14.60    99.00    99.00
 8  3 18 24    15.0 1   338.0     3.60    13.60    99.00    99.00
 8  3 19  1    15.0 1   354.0     3.60    12.60    99.00    99.00
 8  3 19  2    15.0 1     0.0     0.00    12.10    99.00    99.00
 8  3 19  3    15.0 1    12.0     3.10    11.60    99.00    99.00
 8  3 19  4    15.0 1    11.0     2.10    11.30    99.00    99.00
 8  3 19  5    15.0 1     3.0     1.50    11.10    99.00    99.00
 8  3 19  6    15.0 1   357.0     1.00    10.80    99.00    99.00
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 8  3 19  8    15.0 1    32.0     1.00    10.80    99.00    99.00
 8  3 19  9    15.0 1     6.0     1.00    11.10    99.00    99.00
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 8  3 19 12    15.0 1   296.0     1.00    12.90    99.00    99.00
 8  3 19 13    15.0 1   317.0     1.50    14.10    99.00    99.00
 8  3 19 14    15.0 1   344.0     2.10    15.50    99.00    99.00
 8  3 19 15    15.0 1   349.0     2.10    16.30    99.00    99.00
 8  3 19 16    15.0 1   356.0     3.10    16.50    99.00    99.00
 8  3 19 17    15.0 1     8.0     2.60    16.40    99.00    99.00
 8  3 19 18    15.0 1    19.0     3.10    15.80    99.00    99.00
 8  3 19 19    15.0 1    26.0     2.10    15.00    99.00    99.00
 8  3 19 20    15.0 1     0.0     0.00    14.40    99.00    99.00
 8  3 19 21    15.0 1   331.0     2.10    13.60    99.00    99.00
 8  3 19 22    15.0 1   348.0     2.60    13.00    99.00    99.00
 8  3 19 23    15.0 1   356.0     2.60    12.60    99.00    99.00
 8  3 19 24    15.0 1     3.0     2.10    12.30    99.00    99.00
 8  3 20  1    15.0 1     0.0     0.00    12.00    99.00    99.00
 8  3 20  2    15.0 1   358.0     2.60    11.60    99.00    99.00
 8  3 20  3    15.0 1   347.0     3.10    11.10    99.00    99.00
 8  3 20  4    15.0 1   349.0     3.10    10.60    99.00    99.00
 8  3 20  5    15.0 1   347.0     3.10    10.10    99.00    99.00
 8  3 20  6    15.0 1   346.0     3.10     9.60    99.00    99.00
 8  3 20  7    15.0 1   339.0     3.10     9.10    99.00    99.00
 8  3 20  8    15.0 1   336.0     2.60     8.90    99.00    99.00
 8  3 20  9    15.0 1   330.0     2.60     9.40    99.00    99.00
 8  3 20 10    15.0 1   324.0     2.10    10.40    99.00    99.00
 8  3 20 11    15.0 1   306.0     2.10    12.10    99.00    99.00
 8  3 20 12    15.0 1   316.0     1.50    13.80    99.00    99.00
 8  3 20 13    15.0 1   334.0     2.10    15.10    99.00    99.00
 8  3 20 14    15.0 1   329.0     2.60    16.10    99.00    99.00
 8  3 20 15    15.0 1   336.0     3.60    16.80    99.00    99.00
 8  3 20 16    15.0 1   346.0     2.10    17.40    99.00    99.00
 8  3 20 17    15.0 1   338.0     2.60    17.60    99.00    99.00
 8  3 20 18    15.0 1   332.0     3.10    17.00    99.00    99.00
 8  3 20 19    15.0 1   326.0     4.10    15.10    99.00    99.00
 8  3 20 20    15.0 1   329.0     4.10    13.60    99.00    99.00
 8  3 20 21    15.0 1   335.0     3.10    12.80    99.00    99.00
 8  3 20 22    15.0 1   322.0     1.50    12.10    99.00    99.00
 8  3 20 23    15.0 1   321.0     1.00    11.50    99.00    99.00
 8  3 20 24    15.0 1   332.0     1.00    10.80    99.00    99.00
 8  3 21  1    15.0 1   332.0     0.50    10.10    99.00    99.00
 8  3 21  2    15.0 1   295.0     0.50     9.40    99.00    99.00
 8  3 21  3    15.0 1   283.0     0.50     8.80    99.00    99.00
 8  3 21  4    15.0 1   295.0     1.00     8.10    99.00    99.00
 8  3 21  5    15.0 1   289.0     1.00     7.60    99.00    99.00
 8  3 21  6    15.0 1   283.0     1.00     7.10    99.00    99.00
 8  3 21  7    15.0 1   266.0     1.00     7.00    99.00    99.00
 8  3 21  8    15.0 1   316.0     0.50     8.50    99.00    99.00
 8  3 21  9    15.0 1     0.0     0.00    10.10    99.00    99.00
 8  3 21 10    15.0 1     0.0     0.00    11.80    99.00    99.00
 8  3 21 11    15.0 1     0.0     0.00    13.90    99.00    99.00
 8  3 21 12    15.0 1   306.0     0.50    15.60    99.00    99.00
 8  3 21 13    15.0 1   323.0     1.00    17.00    99.00    99.00
 8  3 21 14    15.0 1   326.0     2.10    18.10    99.00    99.00
 8  3 21 15    15.0 1   342.0     2.60    18.60    99.00    99.00
 8  3 21 16    15.0 1   340.0     3.10    18.60    99.00    99.00
 8  3 21 17    15.0 1   348.0     2.60    18.40    99.00    99.00
 8  3 21 18    15.0 1   354.0     2.10    17.60    99.00    99.00
 8  3 21 19    15.0 1   328.0     1.00    16.60    99.00    99.00
 8  3 21 20    15.0 1   277.0     1.00    15.50    99.00    99.00
 8  3 21 21    15.0 1   273.0     1.50    14.30    99.00    99.00
 8  3 21 22    15.0 1   300.0     1.50    13.30    99.00    99.00
 8  3 21 23    15.0 1   309.0     1.50    12.40    99.00    99.00
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 8  3 21 24    15.0 1   313.0     2.10    11.50    99.00    99.00
 8  3 22  1    15.0 1   321.0     1.50    10.60    99.00    99.00
 8  3 22  2    15.0 1   305.0     1.00    10.10    99.00    99.00
 8  3 22  3    15.0 1   276.0     1.00     9.50    99.00    99.00
 8  3 22  4    15.0 1   278.0     1.00     9.00    99.00    99.00
 8  3 22  5    15.0 1   276.0     1.00     8.60    99.00    99.00
 8  3 22  6    15.0 1   276.0     1.00     8.10    99.00    99.00
 8  3 22  7    15.0 1   270.0     0.50     8.10    99.00    99.00
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 8  3 22 10    15.0 1   283.0     0.50    14.00    99.00    99.00
 8  3 22 11    15.0 1   305.0     0.50    15.80    99.00    99.00
 8  3 22 12    15.0 1   320.0     1.00    17.60    99.00    99.00
 8  3 22 13    15.0 1   348.0     1.00    19.40    99.00    99.00
 8  3 22 14    15.0 1   348.0     2.10    20.60    99.00    99.00
 8  3 22 15    15.0 1   352.0     2.60    21.30    99.00    99.00
 8  3 22 16    15.0 1   357.0     3.60    21.30    99.00    99.00
 8  3 22 17    15.0 1     0.0     0.00    20.60    99.00    99.00
 8  3 22 18    15.0 1     0.0     0.00    19.80    99.00    99.00
 8  3 22 19    15.0 1   346.0     2.60    18.60    99.00    99.00
 8  3 22 20    15.0 1   322.0     1.50    17.50    99.00    99.00
 8  3 22 21    15.0 1   313.0     1.00    16.30    99.00    99.00
 8  3 22 22    15.0 1   308.0     1.00    15.10    99.00    99.00
 8  3 22 23    15.0 1   323.0     1.50    14.40    99.00    99.00
 8  3 22 24    15.0 1   325.0     2.10    13.60    99.00    99.00
 8  3 23  1    15.0 1   307.0     2.60    12.80    99.00    99.00
 8  3 23  2    15.0 1   297.0     2.60    11.90    99.00    99.00
 8  3 23  3    15.0 1   286.0     3.10    11.10    99.00    99.00
 8  3 23  4    15.0 1   295.0     3.10    10.60    99.00    99.00
 8  3 23  5    15.0 1   292.0     2.60    10.10    99.00    99.00
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 8  3 23  7    15.0 1   277.0     1.00     9.60    99.00    99.00
 8  3 23  8    15.0 1   329.0     1.50    11.50    99.00    99.00
 8  3 23  9    15.0 1   304.0     1.00    13.40    99.00    99.00
 8  3 23 10    15.0 1   276.0     0.50    15.80    99.00    99.00
 8  3 23 11    15.0 1   295.0     1.00    18.40    99.00    99.00
 8  3 23 12    15.0 1   313.0     1.00    20.00    99.00    99.00
 8  3 23 13    15.0 1   333.0     1.50    21.40    99.00    99.00
 8  3 23 14    15.0 1   337.0     2.10    22.60    99.00    99.00
 8  3 23 15    15.0 1   355.0     2.60    23.10    99.00    99.00
 8  3 23 16    15.0 1   352.0     3.60    23.10    99.00    99.00
 8  3 23 17    15.0 1   346.0     2.60    22.50    99.00    99.00
 8  3 23 18    15.0 1   342.0     2.60    21.60    99.00    99.00
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 8  3 23 20    15.0 1   294.0     1.50    19.00    99.00    99.00
 8  3 23 21    15.0 1   286.0     2.60    17.80    99.00    99.00
 8  3 23 22    15.0 1   304.0     3.60    16.40    99.00    99.00
 8  3 23 23    15.0 1   312.0     3.60    14.90    99.00    99.00
 8  3 23 24    15.0 1   338.0     3.60    13.60    99.00    99.00
 8  3 24  1    15.0 1   346.0     3.60    12.50    99.00    99.00
 8  3 24  2    15.0 1   339.0     1.50    11.80    99.00    99.00
 8  3 24  3    15.0 1   282.0     0.50    11.30    99.00    99.00
 8  3 24  4    15.0 1     0.0     0.00    10.90    99.00    99.00
 8  3 24  5    15.0 1     0.0     0.00    10.40    99.00    99.00
 8  3 24  6    15.0 1     0.0     0.00     9.90    99.00    99.00
 8  3 24  7    15.0 1     0.0     0.00     9.60    99.00    99.00
 8  3 24  8    15.0 1   348.0     1.50     9.80    99.00    99.00
 8  3 24  9    15.0 1    10.0     1.00     9.80    99.00    99.00
 8  3 24 10    15.0 1    25.0     0.50    11.00    99.00    99.00
 8  3 24 11    15.0 1   332.0     0.50    14.50    99.00    99.00
 8  3 24 12    15.0 1   332.0     1.00    16.60    99.00    99.00
 8  3 24 13    15.0 1   335.0     1.50    18.50    99.00    99.00
 8  3 24 14    15.0 1   336.0     2.10    19.50    99.00    99.00
 8  3 24 15    15.0 1   344.0     2.10    20.10    99.00    99.00
 8  3 24 16    15.0 1   355.0     2.60    20.60    99.00    99.00
 8  3 24 17    15.0 1     0.0     0.00    20.60    99.00    99.00
 8  3 24 18    15.0 1    27.0     1.00    20.00    99.00    99.00
 8  3 24 19    15.0 1     0.0     0.00    18.90    99.00    99.00
 8  3 24 20    15.0 1   202.0     0.50    17.60    99.00    99.00
 8  3 24 21    15.0 1   249.0     0.50    16.60    99.00    99.00
 8  3 24 22    15.0 1   292.0     1.00    15.90    99.00    99.00
 8  3 24 23    15.0 1   314.0     1.50    15.30    99.00    99.00
 8  3 24 24    15.0 1   317.0     2.10    14.80    99.00    99.00
 8  3 25  1    15.0 1   318.0     1.50    14.50    99.00    99.00
 8  3 25  2    15.0 1   333.0     1.50    14.10    99.00    99.00
 8  3 25  3    15.0 1   340.0     0.50    14.00    99.00    99.00
 8  3 25  4    15.0 1   346.0     0.50    13.60    99.00    99.00
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8	3	25	5	15.0	1	0.0	0.00	13.40	99.00	99.00
8	3	25	6	15.0	1	0.0	0.00	13.10	99.00	99.00
8	3	25	7	15.0	1	0.0	0.00	12.90	99.00	99.00
8	3	25	8	15.0	1	0.0	0.00	13.10	99.00	99.00
8	3	25	9	15.0	1	0.0	0.00	14.10	99.00	99.00
8	3	25	10	15.0	1	0.0	0.00	15.60	99.00	99.00
8	3	25	11	15.0	1	0.0	0.00	17.10	99.00	99.00
8	3	25	12	15.0	1	0.0	0.00	18.30	99.00	99.00
8	3	25	13	15.0	1	0.0	0.00	19.40	99.00	99.00
8	3	25	14	15.0	1	299.0	0.50	20.30	99.00	99.00
8	3	25	15	15.0	1	345.0	1.50	20.80	99.00	99.00
8	3	25	16	15.0	1	352.0	2.60	21.40	99.00	99.00
8	3	25	17	15.0	1	352.0	2.60	21.40	99.00	99.00
8	3	25	18	15.0	1	352.0	3.10	20.80	99.00	99.00
8	3	25	19	15.0	1	338.0	4.10	19.10	99.00	99.00
8	3	25	20	15.0	1	331.0	4.10	17.60	99.00	99.00
8	3	25	21	15.0	1	329.0	3.60	16.90	99.00	99.00
8	3	25	22	15.0	1	332.0	3.10	16.10	99.00	99.00
8	3	25	23	15.0	1	317.0	3.10	15.40	99.00	99.00
8	3	25	24	15.0	1	317.0	4.10	14.50	99.00	99.00
8	3	26	1	15.0	1	338.0	4.60	13.10	99.00	99.00
8	3	26	2	15.0	1	345.0	3.60	12.00	99.00	99.00
8	3	26	3	15.0	1	334.0	2.60	11.50	99.00	99.00
8	3	26	4	15.0	1	308.0	1.50	11.00	99.00	99.00
8	3	26	5	15.0	1	0.0	0.00	10.60	99.00	99.00
8	3	26	6	15.0	1	150.0	0.50	10.30	99.00	99.00
8	3	26	7	15.0	1	0.0	0.00	10.10	99.00	99.00
8	3	26	8	15.0	1	4.0	0.50	11.30	99.00	99.00
8	3	26	9	15.0	1	0.0	0.00	13.10	99.00	99.00
8	3	26	10	15.0	1	303.0	0.50	14.80	99.00	99.00
8	3	26	11	15.0	1	298.0	1.00	16.30	99.00	99.00
8	3	26	12	15.0	1	311.0	2.10	17.60	99.00	99.00
8	3	26	13	15.0	1	332.0	3.10	18.60	99.00	99.00
8	3	26	14	15.0	1	340.0	4.60	19.10	99.00	99.00
8	3	26	15	15.0	1	341.0	5.70	19.30	99.00	99.00
8	3	26	16	15.0	1	351.0	6.70	18.90	99.00	99.00
8	3	26	17	15.0	1	354.0	5.70	17.60	99.00	99.00
8	3	26	18	15.0	1	343.0	4.60	15.90	99.00	99.00
8	3	26	19	15.0	1	348.0	4.60	14.10	99.00	99.00
8	3	26	20	15.0	1	345.0	4.10	13.10	99.00	99.00
8	3	26	21	15.0	1	340.0	3.60	12.10	99.00	99.00
8	3	26	22	15.0	1	345.0	3.60	11.50	99.00	99.00
8	3	26	23	15.0	1	333.0	4.10	10.80	99.00	99.00
8	3	26	24	15.0	1	334.0	4.10	10.10	99.00	99.00
8	3	27	1	15.0	1	320.0	3.60	9.50	99.00	99.00
8	3	27	2	15.0	1	321.0	2.60	9.10	99.00	99.00
8	3	27	3	15.0	1	325.0	2.10	8.90	99.00	99.00
8	3	27	4	15.0	1	331.0	1.50	8.60	99.00	99.00
8	3	27	5	15.0	1	320.0	1.00	8.50	99.00	99.00
8	3	27	6	15.0	1	292.0	1.00	8.30	99.00	99.00
8	3	27	7	15.0	1	271.0	1.00	8.10	99.00	99.00
8	3	27	8	15.0	1	325.0	2.10	8.90	99.00	99.00
8	3	27	9	15.0	1	321.0	1.50	9.60	99.00	99.00
8	3	27	10	15.0	1	314.0	1.50	10.60	99.00	99.00
8	3	27	11	15.0	1	306.0	2.10	11.80	99.00	99.00
8	3	27	12	15.0	1	313.0	2.60	12.80	99.00	99.00
8	3	27	13	15.0	1	324.0	2.60	13.60	99.00	99.00
8	3	27	14	15.0	1	332.0	2.60	14.30	99.00	99.00
8	3	27	15	15.0	1	342.0	2.60	14.90	99.00	99.00
8	3	27	16	15.0	1	353.0	2.60	15.30	99.00	99.00
8	3	27	17	15.0	1	348.0	1.50	15.30	99.00	99.00
8	3	27	18	15.0	1	329.0	1.00	14.90	99.00	99.00
8	3	27	19	15.0	1	315.0	2.10	14.10	99.00	99.00
8	3	27	20	15.0	1	307.0	3.60	13.10	99.00	99.00
8	3	27	21	15.0	1	323.0	4.10	11.60	99.00	99.00
8	3	27	22	15.0	1	329.0	3.10	10.50	99.00	99.00
8	3	27	23	15.0	1	336.0	2.10	9.90	99.00	99.00
8	3	27	24	15.0	1	352.0	1.50	9.30	99.00	99.00
8	3	28	1	15.0	1	0.0	0.00	8.60	99.00	99.00
8	3	28	2	15.0	1	14.0	0.50	8.30	99.00	99.00
8	3	28	3	15.0	1	0.0	0.00	7.60	99.00	99.00
8	3	28	4	15.0	1	357.0	0.50	7.10	99.00	99.00
8	3	28	5	15.0	1	341.0	0.50	6.50	99.00	99.00
8	3	28	6	15.0	1	0.0	0.00	5.90	99.00	99.00
8	3	28	7	15.0	1	0.0	0.00	5.90	99.00	99.00
8	3	28	8	15.0	1	0.0	0.00	8.30	99.00	99.00
8	3	28	9	15.0	1	0.0	0.00	10.30	99.00	99.00

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 8  3 28 10    15.0 1    0.0     0.00    12.10    99.00    99.00
 8  3 28 11    15.0 1  281.0     0.50    13.90    99.00    99.00
 8  3 28 12    15.0 1  304.0     0.50    15.60    99.00    99.00
 8  3 28 13    15.0 1  309.0     1.00    16.90    99.00    99.00
 8  3 28 14    15.0 1  326.0     1.00    17.80    99.00    99.00
 8  3 28 15    15.0 1  347.0     1.50    18.40    99.00    99.00
 8  3 28 16    15.0 1    0.0     0.00    18.60    99.00    99.00
 8  3 28 17    15.0 1   12.0     2.60    18.30    99.00    99.00
 8  3 28 18    15.0 1    7.0     2.10    17.80    99.00    99.00
 8  3 28 19    15.0 1  357.0     0.50    16.60    99.00    99.00
 8  3 28 20    15.0 1  239.0     0.50    15.40    99.00    99.00
 8  3 28 21    15.0 1  246.0     2.60    14.10    99.00    99.00
 8  3 28 22    15.0 1  275.0     3.60    12.40    99.00    99.00
 8  3 28 23    15.0 1  285.0     4.60    11.50    99.00    99.00
 8  3 28 24    15.0 1  291.0     4.10    10.60    99.00    99.00
 8  3 29  1    15.0 1  305.0     4.10    10.10    99.00    99.00
 8  3 29  2    15.0 1  299.0     3.60     9.90    99.00    99.00
 8  3 29  3    15.0 1  300.0     2.60     9.80    99.00    99.00
 8  3 29  4    15.0 1  301.0     1.00     9.60    99.00    99.00
 8  3 29  5    15.0 1    0.0     0.00     9.60    99.00    99.00
 8  3 29  6    15.0 1    0.0     0.00     9.80    99.00    99.00
 8  3 29  7    15.0 1  111.0     0.50     9.80    99.00    99.00
 8  3 29  8    15.0 1  109.0     0.50    10.60    99.00    99.00
 8  3 29  9    15.0 1  137.0     1.00    11.50    99.00    99.00
 8  3 29 10    15.0 1  200.0     0.50    12.50    99.00    99.00
 8  3 29 11    15.0 1  271.0     0.50    13.40    99.00    99.00
 8  3 29 12    15.0 1  282.0     1.00    14.00    99.00    99.00
 8  3 29 13    15.0 1  294.0     1.50    14.60    99.00    99.00
 8  3 29 14    15.0 1  299.0     2.10    15.10    99.00    99.00
 8  3 29 15    15.0 1  313.0     2.60    15.50    99.00    99.00
 8  3 29 16    15.0 1  325.0     3.10    15.60    99.00    99.00
 8  3 29 17    15.0 1  338.0     2.60    15.60    99.00    99.00
 8  3 29 18    15.0 1  344.0     2.10    15.10    99.00    99.00
 8  3 29 19    15.0 1  340.0     1.00    14.60    99.00    99.00
 8  3 29 20    15.0 1  237.0     1.00    14.30    99.00    99.00
 8  3 29 21    15.0 1  255.0     3.60    13.60    99.00    99.00
 8  3 29 22    15.0 1  264.0     5.10    12.10    99.00    99.00
 8  3 29 23    15.0 1  267.0     5.70    11.10    99.00    99.00
 8  3 29 24    15.0 1  281.0     5.70    10.60    99.00    99.00
 8  3 30  1    15.0 1  276.0     5.10    10.50    99.00    99.00
 8  3 30  2    15.0 1  283.0     4.60    10.10    99.00    99.00
 8  3 30  3    15.0 1  274.0     4.10     9.60    99.00    99.00
 8  3 30  4    15.0 1  272.0     4.10     9.40    99.00    99.00
 8  3 30  5    15.0 1  277.0     4.10     9.10    99.00    99.00
 8  3 30  6    15.0 1  266.0     3.10     8.60    99.00    99.00
 8  3 30  7    15.0 1  283.0     4.10     8.50    99.00    99.00
 8  3 30  8    15.0 1  288.0     2.60     9.60    99.00    99.00
 8  3 30  9    15.0 1  283.0     1.00    11.10    99.00    99.00
 8  3 30 10    15.0 1  275.0     0.50    12.10    99.00    99.00
 8  3 30 11    15.0 1  281.0     0.50    13.10    99.00    99.00
 8  3 30 12    15.0 1  301.0     1.00    14.30    99.00    99.00
 8  3 30 13    15.0 1  318.0     1.50    15.10    99.00    99.00
 8  3 30 14    15.0 1  342.0     2.60    15.60    99.00    99.00
 8  3 30 15    15.0 1  355.0     3.60    16.00    99.00    99.00
 8  3 30 16    15.0 1  355.0     4.60    16.40    99.00    99.00
 8  3 30 17    15.0 1  354.0     4.60    15.90    99.00    99.00
 8  3 30 18    15.0 1  337.0     4.60    14.60    99.00    99.00
 8  3 30 19    15.0 1  341.0     4.60    12.90    99.00    99.00
 8  3 30 20    15.0 1  333.0     4.60    11.60    99.00    99.00
 8  3 30 21    15.0 1  321.0     4.10    10.80    99.00    99.00
 8  3 30 22    15.0 1  306.0     3.60    10.00    99.00    99.00
 8  3 30 23    15.0 1  296.0     3.60     9.10    99.00    99.00
 8  3 30 24    15.0 1  314.0     3.10     8.30    99.00    99.00
 8  3 31  1    15.0 1  319.0     2.60     7.60    99.00    99.00
 8  3 31  2    15.0 1  319.0     1.50     7.10    99.00    99.00
 8  3 31  3    15.0 1  334.0     0.50     6.60    99.00    99.00
 8  3 31  4    15.0 1  311.0     0.50     6.10    99.00    99.00
 8  3 31  5    15.0 1  279.0     0.50     5.80    99.00    99.00
 8  3 31  6    15.0 1  262.0     0.50     5.60    99.00    99.00
 8  3 31  7    15.0 1    0.0     0.00     5.60    99.00    99.00
 8  3 31  8    15.0 1  342.0     0.50     6.60    99.00    99.00
 8  3 31  9    15.0 1    0.0     0.00     8.00    99.00    99.00
 8  3 31 10    15.0 1    0.0     0.00     9.50    99.00    99.00
 8  3 31 11    15.0 1    0.0     0.00    11.10    99.00    99.00
 8  3 31 12    15.0 1    0.0     0.00    12.60    99.00    99.00
 8  3 31 13    15.0 1    0.0     0.00    13.60    99.00    99.00
 8  3 31 14    15.0 1  321.0     0.50    14.40    99.00    99.00
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 8   3 31 15     15.0 1    338.0      1.00     14.80     99.00     99.00
 8   3 31 16     15.0 1    354.0      1.50     14.90     99.00     99.00
 8   3 31 17     15.0 1    358.0      2.10     14.60     99.00     99.00
 8   3 31 18     15.0 1     12.0      2.10     14.10     99.00     99.00
 8   3 31 19     15.0 1     25.0      1.50     13.50     99.00     99.00
 8   3 31 20     15.0 1     40.0      0.50     12.90     99.00     99.00
 8   3 31 21     15.0 1      0.0      0.00     12.40     99.00     99.00
 8   3 31 22     15.0 1      0.0      0.00     11.90     99.00     99.00
 8   3 31 23     15.0 1    268.0      0.50     11.60     99.00     99.00
 8   3 31 24     15.0 1    285.0      1.00     11.10     99.00     99.00
 8   4  1  1     15.0 1    294.0      0.50     10.60     99.00     99.00
 8   4  1  2     15.0 1      0.0      0.00     10.40     99.00     99.00
 8   4  1  3     15.0 1    229.0      0.50     10.10     99.00     99.00
 8   4  1  4     15.0 1    217.0      0.50     10.10     99.00     99.00
 8   4  1  5     15.0 1    224.0      0.50      9.80     99.00     99.00
 8   4  1  6     15.0 1    262.0      0.50      9.60     99.00     99.00
 8   4  1  7     15.0 1    297.0      0.50      9.50     99.00     99.00
 8   4  1  8     15.0 1    340.0      1.00     10.10     99.00     99.00
 8   4  1  9     15.0 1      0.0      0.00     12.00     99.00     99.00
 8   4  1 10     15.0 1      0.0      0.00     13.60     99.00     99.00
 8   4  1 11     15.0 1      0.0      0.00     15.10     99.00     99.00
 8   4  1 12     15.0 1      0.0      0.00     16.30     99.00     99.00
 8   4  1 13     15.0 1      0.0      0.00     17.40     99.00     99.00
 8   4  1 14     15.0 1    317.0      0.50     18.10     99.00     99.00
 8   4  1 15     15.0 1    340.0      1.50     18.80     99.00     99.00
 8   4  1 16     15.0 1    349.0      2.60     18.90     99.00     99.00
 8   4  1 17     15.0 1     10.0      3.10     18.30     99.00     99.00
 8   4  1 18     15.0 1     25.0      3.60     17.10     99.00     99.00
 8   4  1 19     15.0 1     14.0      2.60     16.40     99.00     99.00
 8   4  1 20     15.0 1    276.0      3.60     15.90     99.00     99.00
 8   4  1 21     15.0 1    269.0      4.10     14.10     99.00     99.00
 8   4  1 22     15.0 1    279.0      4.10     13.30     99.00     99.00
 8   4  1 23     15.0 1    278.0      3.10     12.90     99.00     99.00
 8   4  1 24     15.0 1    266.0      2.60     12.60     99.00     99.00
 8   4  2  1     15.0 1    280.0      1.00     12.40     99.00     99.00
 8   4  2  2     15.0 1     22.0      0.50     12.30     99.00     99.00
 8   4  2  3     15.0 1     26.0      0.50     12.10     99.00     99.00
 8   4  2  4     15.0 1      0.0      0.00     11.60     99.00     99.00
 8   4  2  5     15.0 1      0.0      0.00     11.10     99.00     99.00
 8   4  2  6     15.0 1      0.0      0.00     10.60     99.00     99.00
 8   4  2  7     15.0 1    250.0      1.00     10.50     99.00     99.00
 8   4  2  8     15.0 1    234.0      1.00     10.40     99.00     99.00
 8   4  2  9     15.0 1    193.0      1.00     10.80     99.00     99.00
 8   4  2 10     15.0 1    173.0      1.00     11.30     99.00     99.00
 8   4  2 11     15.0 1    158.0      0.50     11.90     99.00     99.00
 8   4  2 12     15.0 1    154.0      0.50     12.30     99.00     99.00
 8   4  2 13     15.0 1    122.0      0.50     12.50     99.00     99.00
 8   4  2 14     15.0 1    107.0      1.00     12.60     99.00     99.00
 8   4  2 15     15.0 1    115.0      1.50     12.60     99.00     99.00
 8   4  2 16     15.0 1    103.0      2.10     12.80     99.00     99.00
 8   4  2 17     15.0 1    103.0      2.10     12.80     99.00     99.00
 8   4  2 18     15.0 1     96.0      1.00     12.60     99.00     99.00
 8   4  2 19     15.0 1    109.0      0.50     12.30     99.00     99.00
 8   4  2 20     15.0 1     57.0      0.50     12.10     99.00     99.00
 8   4  2 21     15.0 1      0.0      0.00     12.10     99.00     99.00
 8   4  2 22     15.0 1      0.0      0.00     12.00     99.00     99.00
 8   4  2 23     15.0 1      0.0      0.00     11.90     99.00     99.00
 8   4  2 24     15.0 1    123.0      0.50     11.80     99.00     99.00
 8   4  3  1     15.0 1      0.0      0.00     11.80     99.00     99.00
 8   4  3  2     15.0 1      0.0      0.00     11.80     99.00     99.00
 8   4  3  3     15.0 1      0.0      0.00     11.80     99.00     99.00
 8   4  3  4     15.0 1      0.0      0.00     11.90     99.00     99.00
 8   4  3  5     15.0 1      0.0      0.00     11.90     99.00     99.00
 8   4  3  6     15.0 1      0.0      0.00     12.00     99.00     99.00
 8   4  3  7     15.0 1      0.0      0.00     12.00     99.00     99.00
 8   4  3  8     15.0 1     44.0      1.00     12.10     99.00     99.00
 8   4  3  9     15.0 1     16.0      1.00     12.60     99.00     99.00
 8   4  3 10     15.0 1    318.0      0.50     13.60     99.00     99.00
 8   4  3 11     15.0 1      0.0      0.00     15.60     99.00     99.00
 8   4  3 12     15.0 1      0.0      0.00     17.10     99.00     99.00
 8   4  3 13     15.0 1    308.0      0.50     18.30     99.00     99.00
 8   4  3 14     15.0 1    322.0      0.50     19.10     99.00     99.00
 8   4  3 15     15.0 1    328.0      1.00     19.80     99.00     99.00
 8   4  3 16     15.0 1    336.0      2.10     20.10     99.00     99.00
 8   4  3 17     15.0 1    354.0      3.10     20.00     99.00     99.00
 8   4  3 18     15.0 1    356.0      2.60     19.50     99.00     99.00
 8   4  3 19     15.0 1      6.0      1.50     18.60     99.00     99.00
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 8  4  3 20    15.0 1     0.0     0.00    17.30    99.00    99.00
 8  4  3 21    15.0 1   131.0     0.50    15.90    99.00    99.00
 8  4  3 22    15.0 1   144.0     1.00    14.60    99.00    99.00
 8  4  3 23    15.0 1   150.0     1.50    13.80    99.00    99.00
 8  4  3 24    15.0 1   164.0     1.00    13.00    99.00    99.00
 8  4  4  1    15.0 1   115.0     0.50    12.50    99.00    99.00
 8  4  4  2    15.0 1   101.0     0.50    11.80    99.00    99.00
 8  4  4  3    15.0 1     0.0     0.00    11.10    99.00    99.00
 8  4  4  4    15.0 1   304.0     1.00    10.60    99.00    99.00
 8  4  4  5    15.0 1   291.0     2.10    10.10    99.00    99.00
 8  4  4  6    15.0 1   289.0     2.60     9.80    99.00    99.00
 8  4  4  7    15.0 1   315.0     2.10    10.00    99.00    99.00
 8  4  4  8    15.0 1   330.0     2.10    12.10    99.00    99.00
 8  4  4  9    15.0 1   328.0     1.00    14.00    99.00    99.00
 8  4  4 10    15.0 1   324.0     1.00    16.00    99.00    99.00
 8  4  4 11    15.0 1   315.0     1.00    17.50    99.00    99.00
 8  4  4 12    15.0 1   322.0     1.50    18.80    99.00    99.00
 8  4  4 13    15.0 1   333.0     2.10    20.00    99.00    99.00
 8  4  4 14    15.0 1   345.0     2.60    20.60    99.00    99.00
 8  4  4 15    15.0 1   346.0     3.10    21.10    99.00    99.00
 8  4  4 16    15.0 1   350.0     4.10    21.60    99.00    99.00
 8  4  4 17    15.0 1   352.0     3.60    21.30    99.00    99.00
 8  4  4 18    15.0 1   349.0     4.10    20.10    99.00    99.00
 8  4  4 19    15.0 1   332.0     4.60    18.00    99.00    99.00
 8  4  4 20    15.0 1   334.0     4.60    16.30    99.00    99.00
 8  4  4 21    15.0 1   334.0     4.10    15.00    99.00    99.00
 8  4  4 22    15.0 1   309.0     4.10    14.00    99.00    99.00
 8  4  4 23    15.0 1   311.0     4.10    13.10    99.00    99.00
 8  4  4 24    15.0 1   314.0     4.10    12.00    99.00    99.00
 8  4  5  1    15.0 1   306.0     4.10    11.00    99.00    99.00
 8  4  5  2    15.0 1   302.0     3.60    10.30    99.00    99.00
 8  4  5  3    15.0 1   291.0     3.10     9.60    99.00    99.00
 8  4  5  4    15.0 1   294.0     2.60     9.30    99.00    99.00
 8  4  5  5    15.0 1   301.0     2.10     9.10    99.00    99.00
 8  4  5  6    15.0 1   307.0     2.10     8.90    99.00    99.00
 8  4  5  7    15.0 1   335.0     2.60     9.00    99.00    99.00
 8  4  5  8    15.0 1   341.0     2.10     9.50    99.00    99.00
 8  4  5  9    15.0 1   338.0     1.00     9.80    99.00    99.00
 8  4  5 10    15.0 1     0.0     0.00    10.60    99.00    99.00
 8  4  5 11    15.0 1     0.0     0.00    12.10    99.00    99.00
 8  4  5 12    15.0 1     0.0     0.00    13.80    99.00    99.00
 8  4  5 13    15.0 1   298.0     0.50    15.10    99.00    99.00
 8  4  5 14    15.0 1   334.0     1.50    16.10    99.00    99.00
 8  4  5 15    15.0 1   344.0     2.60    16.90    99.00    99.00
 8  4  5 16    15.0 1   342.0     3.60    17.30    99.00    99.00
 8  4  5 17    15.0 1   349.0     4.60    17.40    99.00    99.00
 8  4  5 18    15.0 1   339.0     3.60    16.80    99.00    99.00
 8  4  5 19    15.0 1   344.0     4.60    15.00    99.00    99.00
 8  4  5 20    15.0 1   338.0     4.10    13.60    99.00    99.00
 8  4  5 21    15.0 1   350.0     3.60    12.90    99.00    99.00
 8  4  5 22    15.0 1     2.0     3.10    12.40    99.00    99.00
 8  4  5 23    15.0 1   353.0     2.60    11.60    99.00    99.00
 8  4  5 24    15.0 1   336.0     3.10    10.80    99.00    99.00
 8  4  6  1    15.0 1   343.0     2.60    10.00    99.00    99.00
 8  4  6  2    15.0 1   353.0     1.50     9.40    99.00    99.00
 8  4  6  3    15.0 1   353.0     1.00     8.90    99.00    99.00
 8  4  6  4    15.0 1     0.0     0.00     8.40    99.00    99.00
 8  4  6  5    15.0 1     0.0     0.00     8.00    99.00    99.00
 8  4  6  6    15.0 1     0.0     0.00     7.60    99.00    99.00
 8  4  6  7    15.0 1     0.0     0.00     7.90    99.00    99.00
 8  4  6  8    15.0 1     0.0     0.00     9.40    99.00    99.00
 8  4  6  9    15.0 1     0.0     0.00    10.30    99.00    99.00
 8  4  6 10    15.0 1   198.0     0.50    11.60    99.00    99.00
 8  4  6 11    15.0 1     0.0     0.00    13.60    99.00    99.00
 8  4  6 12    15.0 1     0.0     0.00    15.30    99.00    99.00
 8  4  6 13    15.0 1   296.0     1.00    16.60    99.00    99.00
 8  4  6 14    15.0 1   327.0     1.50    17.60    99.00    99.00
 8  4  6 15    15.0 1   341.0     3.10    18.30    99.00    99.00
 8  4  6 16    15.0 1   346.0     4.10    18.60    99.00    99.00
 8  4  6 17    15.0 1   359.0     4.60    18.40    99.00    99.00
 8  4  6 18    15.0 1   353.0     3.60    17.60    99.00    99.00
 8  4  6 19    15.0 1   340.0     4.60    15.80    99.00    99.00
 8  4  6 20    15.0 1   344.0     5.10    14.60    99.00    99.00
 8  4  6 21    15.0 1   338.0     5.70    13.80    99.00    99.00
 8  4  6 22    15.0 1   343.0     5.10    13.00    99.00    99.00
 8  4  6 23    15.0 1   332.0     4.10    11.60    99.00    99.00
 8  4  6 24    15.0 1   325.0     3.60    10.60    99.00    99.00
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 8  4  7  1    15.0 1   319.0     3.60     9.90    99.00    99.00
 8  4  7  2    15.0 1   329.0     3.10     9.30    99.00    99.00
 8  4  7  3    15.0 1   328.0     3.10     8.80    99.00    99.00
 8  4  7  4    15.0 1   326.0     2.60     8.30    99.00    99.00
 8  4  7  5    15.0 1   319.0     2.60     7.80    99.00    99.00
 8  4  7  6    15.0 1   318.0     2.10     7.50    99.00    99.00
 8  4  7  7    15.0 1   330.0     2.60     7.60    99.00    99.00
 8  4  7  8    15.0 1   347.0     2.60     8.40    99.00    99.00
 8  4  7  9    15.0 1   344.0     1.00     9.60    99.00    99.00
 8  4  7 10    15.0 1     0.0     0.00    11.10    99.00    99.00
 8  4  7 11    15.0 1     0.0     0.00    12.60    99.00    99.00
 8  4  7 12    15.0 1     0.0     0.00    14.10    99.00    99.00
 8  4  7 13    15.0 1     0.0     0.00    15.60    99.00    99.00
 8  4  7 14    15.0 1   312.0     1.00    16.60    99.00    99.00
 8  4  7 15    15.0 1   317.0     1.50    17.40    99.00    99.00
 8  4  7 16    15.0 1   337.0     2.60    17.80    99.00    99.00
 8  4  7 17    15.0 1   344.0     3.10    17.60    99.00    99.00
 8  4  7 18    15.0 1   337.0     2.60    17.10    99.00    99.00
 8  4  7 19    15.0 1   332.0     3.60    16.10    99.00    99.00
 8  4  7 20    15.0 1   330.0     3.60    14.80    99.00    99.00
 8  4  7 21    15.0 1   318.0     3.10    13.60    99.00    99.00
 8  4  7 22    15.0 1   309.0     3.10    12.50    99.00    99.00
 8  4  7 23    15.0 1   317.0     2.60    11.30    99.00    99.00
 8  4  7 24    15.0 1   328.0     2.60    10.10    99.00    99.00
 8  4  8  1    15.0 1   328.0     2.10     9.50    99.00    99.00
 8  4  8  2    15.0 1   333.0     1.50     9.10    99.00    99.00
 8  4  8  3    15.0 1   344.0     0.50     8.90    99.00    99.00
 8  4  8  4    15.0 1     0.0     0.00     8.60    99.00    99.00
 8  4  8  5    15.0 1     0.0     0.00     8.50    99.00    99.00
 8  4  8  6    15.0 1     0.0     0.00     8.10    99.00    99.00
 8  4  8  7    15.0 1   292.0     0.50     8.40    99.00    99.00
 8  4  8  8    15.0 1   335.0     1.50    10.40    99.00    99.00
 8  4  8  9    15.0 1   332.0     1.50    11.60    99.00    99.00
 8  4  8 10    15.0 1   317.0     1.50    13.00    99.00    99.00
 8  4  8 11    15.0 1   323.0     2.10    14.10    99.00    99.00
 8  4  8 12    15.0 1   332.0     3.10    15.30    99.00    99.00
 8  4  8 13    15.0 1   328.0     4.10    16.10    99.00    99.00
 8  4  8 14    15.0 1   340.0     5.10    16.50    99.00    99.00
 8  4  8 15    15.0 1   344.0     5.70    16.60    99.00    99.00
 8  4  8 16    15.0 1   336.0     6.70    16.50    99.00    99.00
 8  4  8 17    15.0 1   338.0     6.20    15.90    99.00    99.00
 8  4  8 18    15.0 1   337.0     4.60    14.80    99.00    99.00
 8  4  8 19    15.0 1   335.0     4.60    13.40    99.00    99.00
 8  4  8 20    15.0 1   321.0     5.10    12.60    99.00    99.00
 8  4  8 21    15.0 1   305.0     5.70    12.00    99.00    99.00
 8  4  8 22    15.0 1   296.0     5.70    10.50    99.00    99.00
 8  4  8 23    15.0 1   296.0     5.10     9.10    99.00    99.00
 8  4  8 24    15.0 1   310.0     4.10     8.40    99.00    99.00
 8  4  9  1    15.0 1   300.0     3.60     7.90    99.00    99.00
 8  4  9  2    15.0 1   304.0     3.10     7.40    99.00    99.00
 8  4  9  3    15.0 1   298.0     2.60     7.00    99.00    99.00
 8  4  9  4    15.0 1   288.0     2.60     6.60    99.00    99.00
 8  4  9  5    15.0 1   294.0     1.50     6.60    99.00    99.00
 8  4  9  6    15.0 1   298.0     1.50     6.60    99.00    99.00
 8  4  9  7    15.0 1   334.0     1.50     7.00    99.00    99.00
 8  4  9  8    15.0 1   346.0     1.50     7.50    99.00    99.00
 8  4  9  9    15.0 1    14.0     0.50     8.10    99.00    99.00
 8  4  9 10    15.0 1     0.0     0.00     8.60    99.00    99.00
 8  4  9 11    15.0 1     0.0     0.00    10.10    99.00    99.00
 8  4  9 12    15.0 1     0.0     0.00    12.10    99.00    99.00
 8  4  9 13    15.0 1   331.0     0.50    13.80    99.00    99.00
 8  4  9 14    15.0 1   343.0     1.50    15.10    99.00    99.00
 8  4  9 15    15.0 1   348.0     3.10    16.10    99.00    99.00
 8  4  9 16    15.0 1   338.0     5.70    17.60    99.00    99.00
 8  4  9 17    15.0 1   338.0     5.10    17.40    99.00    99.00
 8  4  9 18    15.0 1   331.0     4.10    16.50    99.00    99.00
 8  4  9 19    15.0 1   332.0     4.10    15.00    99.00    99.00
 8  4  9 20    15.0 1   324.0     4.10    14.00    99.00    99.00
 8  4  9 21    15.0 1   319.0     3.60    13.40    99.00    99.00
 8  4  9 22    15.0 1   313.0     2.60    12.80    99.00    99.00
 8  4  9 23    15.0 1   302.0     1.50    12.10    99.00    99.00
 8  4  9 24    15.0 1   276.0     0.50    11.60    99.00    99.00
 8  4 10  1    15.0 1   226.0     0.50    10.90    99.00    99.00
 8  4 10  2    15.0 1     0.0     0.00    10.40    99.00    99.00
 8  4 10  3    15.0 1   330.0     0.50    10.00    99.00    99.00
 8  4 10  4    15.0 1   326.0     0.50     9.50    99.00    99.00
 8  4 10  5    15.0 1   304.0     0.50     9.00    99.00    99.00
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 8  4 10  6    15.0 1   260.0     0.50     8.60    99.00    99.00
 8  4 10  7    15.0 1   265.0     0.50     9.10    99.00    99.00
 8  4 10  8    15.0 1   290.0     0.50    11.30    99.00    99.00
 8  4 10  9    15.0 1     0.0     0.00    13.00    99.00    99.00
 8  4 10 10    15.0 1     0.0     0.00    14.60    99.00    99.00
 8  4 10 11    15.0 1   254.0     0.50    16.30    99.00    99.00
 8  4 10 12    15.0 1   286.0     0.50    18.10    99.00    99.00
 8  4 10 13    15.0 1   299.0     0.50    19.40    99.00    99.00
 8  4 10 14    15.0 1   334.0     1.00    20.30    99.00    99.00
 8  4 10 15    15.0 1   354.0     2.10    20.80    99.00    99.00
 8  4 10 16    15.0 1   352.0     3.10    21.00    99.00    99.00
 8  4 10 17    15.0 1     3.0     3.10    20.90    99.00    99.00
 8  4 10 18    15.0 1   351.0     2.10    20.50    99.00    99.00
 8  4 10 19    15.0 1   348.0     1.50    19.60    99.00    99.00
 8  4 10 20    15.0 1     0.0     0.00    18.30    99.00    99.00
 8  4 10 21    15.0 1   166.0     0.50    16.90    99.00    99.00
 8  4 10 22    15.0 1   129.0     0.50    15.60    99.00    99.00
 8  4 10 23    15.0 1   115.0     1.50    14.80    99.00    99.00
 8  4 10 24    15.0 1   107.0     2.10    14.10    99.00    99.00
 8  4 11  1    15.0 1   116.0     1.50    13.60    99.00    99.00
 8  4 11  2    15.0 1   118.0     0.50    12.90    99.00    99.00
 8  4 11  3    15.0 1   200.0     0.50    12.30    99.00    99.00
 8  4 11  4    15.0 1   259.0     1.50    12.00    99.00    99.00
 8  4 11  5    15.0 1   271.0     2.10    11.80    99.00    99.00
 8  4 11  6    15.0 1   273.0     2.60    11.60    99.00    99.00
 8  4 11  7    15.0 1   285.0     2.60    12.10    99.00    99.00
 8  4 11  8    15.0 1   291.0     2.10    14.30    99.00    99.00
 8  4 11  9    15.0 1   282.0     1.50    16.60    99.00    99.00
 8  4 11 10    15.0 1   261.0     1.00    19.00    99.00    99.00
 8  4 11 11    15.0 1     0.0     0.00    21.00    99.00    99.00
 8  4 11 12    15.0 1     0.0     0.00    22.90    99.00    99.00
 8  4 11 13    15.0 1   326.0     0.50    24.50    99.00    99.00
 8  4 11 14    15.0 1   345.0     1.00    25.60    99.00    99.00
 8  4 11 15    15.0 1   336.0     1.50    26.50    99.00    99.00
 8  4 11 16    15.0 1   347.0     2.60    26.80    99.00    99.00
 8  4 11 17    15.0 1     0.0     0.00    26.00    99.00    99.00
 8  4 11 18    15.0 1    16.0     4.60    24.30    99.00    99.00
 8  4 11 19    15.0 1    45.0     4.10    22.60    99.00    99.00
 8  4 11 20    15.0 1    82.0     2.60    21.60    99.00    99.00
 8  4 11 21    15.0 1   152.0     2.60    20.60    99.00    99.00
 8  4 11 22    15.0 1   170.0     4.10    19.80    99.00    99.00
 8  4 11 23    15.0 1   178.0     4.10    18.90    99.00    99.00
 8  4 11 24    15.0 1   173.0     3.10    17.90    99.00    99.00
 8  4 12  1    15.0 1   173.0     1.50    17.00    99.00    99.00
 8  4 12  2    15.0 1   142.0     0.50    16.40    99.00    99.00
 8  4 12  3    15.0 1    22.0     0.50    15.80    99.00    99.00
 8  4 12  4    15.0 1   351.0     0.50    15.00    99.00    99.00
 8  4 12  5    15.0 1   344.0     0.50    14.30    99.00    99.00
 8  4 12  6    15.0 1   347.0     0.50    13.60    99.00    99.00
 8  4 12  7    15.0 1   356.0     1.00    13.60    99.00    99.00
 8  4 12  8    15.0 1   299.0     1.00    16.60    99.00    99.00
 8  4 12  9    15.0 1   301.0     1.00    19.30    99.00    99.00
 8  4 12 10    15.0 1   332.0     0.50    22.00    99.00    99.00
 8  4 12 11    15.0 1   350.0     0.50    24.10    99.00    99.00
 8  4 12 12    15.0 1   349.0     1.50    26.00    99.00    99.00
 8  4 12 13    15.0 1   351.0     1.50    27.30    99.00    99.00
 8  4 12 14    15.0 1   355.0     2.10    28.10    99.00    99.00
 8  4 12 15    15.0 1   355.0     2.60    28.50    99.00    99.00
 8  4 12 16    15.0 1   353.0     3.60    28.40    99.00    99.00
 8  4 12 17    15.0 1     0.0     0.00    27.10    99.00    99.00
 8  4 12 18    15.0 1    24.0     4.60    25.60    99.00    99.00
 8  4 12 19    15.0 1    34.0     4.10    24.40    99.00    99.00
 8  4 12 20    15.0 1    74.0     2.60    23.40    99.00    99.00
 8  4 12 21    15.0 1   141.0     4.10    22.10    99.00    99.00
 8  4 12 22    15.0 1   175.0     4.60    21.00    99.00    99.00
 8  4 12 23    15.0 1   187.0     3.60    20.10    99.00    99.00
 8  4 12 24    15.0 1   187.0     2.10    19.10    99.00    99.00
 8  4 13  1    15.0 1   204.0     1.00    18.10    99.00    99.00
 8  4 13  2    15.0 1   245.0     0.50    17.10    99.00    99.00
 8  4 13  3    15.0 1     0.0     0.00    16.30    99.00    99.00
 8  4 13  4    15.0 1    37.0     0.50    15.60    99.00    99.00
 8  4 13  5    15.0 1    45.0     0.50    15.00    99.00    99.00
 8  4 13  6    15.0 1    33.0     1.00    14.30    99.00    99.00
 8  4 13  7    15.0 1     2.0     1.00    14.50    99.00    99.00
 8  4 13  8    15.0 1   313.0     2.10    18.30    99.00    99.00
 8  4 13  9    15.0 1   302.0     2.60    20.30    99.00    99.00
 8  4 13 10    15.0 1   296.0     1.50    22.40    99.00    99.00
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 8   4 13 11     15.0 1   293.0      1.00     24.90     99.00     99.00
 8   4 13 12     15.0 1   296.0      0.50     26.50     99.00     99.00
 8   4 13 13     15.0 1   306.0      0.50     27.80     99.00     99.00
 8   4 13 14     15.0 1   320.0      0.50     28.90     99.00     99.00
 8   4 13 15     15.0 1   355.0      1.00     29.40     99.00     99.00
 8   4 13 16     15.0 1    11.0      1.50     29.60     99.00     99.00
 8   4 13 17     15.0 1    18.0      2.60     29.00     99.00     99.00
 8   4 13 18     15.0 1    31.0      3.10     28.00     99.00     99.00
 8   4 13 19     15.0 1    28.0      1.50     26.40     99.00     99.00
 8   4 13 20     15.0 1   257.0      2.10     24.50     99.00     99.00
 8   4 13 21     15.0 1   280.0      5.10     22.00     99.00     99.00
 8   4 13 22     15.0 1   276.0      4.10     19.80     99.00     99.00
 8   4 13 23     15.0 1   294.0      3.60     18.60     99.00     99.00
 8   4 13 24     15.0 1   344.0      2.10     17.80     99.00     99.00
 8   4 14  1     15.0 1    31.0      4.10     17.00     99.00     99.00
 8   4 14  2     15.0 1   358.0      3.10     16.10     99.00     99.00
 8   4 14  3     15.0 1   310.0      2.60     15.60     99.00     99.00
 8   4 14  4     15.0 1   302.0      2.10     15.30     99.00     99.00
 8   4 14  5     15.0 1   325.0      1.50     14.90     99.00     99.00
 8   4 14  6     15.0 1   350.0      1.00     14.40     99.00     99.00
 8   4 14  7     15.0 1     0.0      0.00     14.10     99.00     99.00
 8   4 14  8     15.0 1   352.0      3.10     15.40     99.00     99.00
 8   4 14  9     15.0 1   339.0      2.60     16.90     99.00     99.00
 8   4 14 10     15.0 1   331.0      3.10     18.10     99.00     99.00
 8   4 14 11     15.0 1   330.0      3.10     19.60     99.00     99.00
 8   4 14 12     15.0 1   340.0      3.10     20.90     99.00     99.00
 8   4 14 13     15.0 1   338.0      3.10     22.10     99.00     99.00
 8   4 14 14     15.0 1   341.0      4.10     22.90     99.00     99.00
 8   4 14 15     15.0 1   336.0      5.10     23.30     99.00     99.00
 8   4 14 16     15.0 1   352.0      5.70     24.10     99.00     99.00
 8   4 14 17     15.0 1   347.0      4.60     23.10     99.00     99.00
 8   4 14 18     15.0 1   354.0      4.60     21.10     99.00     99.00
 8   4 14 19     15.0 1   333.0      5.10     18.80     99.00     99.00
 8   4 14 20     15.0 1   334.0      5.10     16.90     99.00     99.00
 8   4 14 21     15.0 1   325.0      5.10     15.00     99.00     99.00
 8   4 14 22     15.0 1   321.0      5.10     13.30     99.00     99.00
 8   4 14 23     15.0 1   325.0      4.60     11.80     99.00     99.00
 8   4 14 24     15.0 1   324.0      4.10     10.60     99.00     99.00
 8   4 15  1     15.0 1   318.0      3.60      9.60     99.00     99.00
 8   4 15  2     15.0 1   317.0      2.60      8.90     99.00     99.00
 8   4 15  3     15.0 1   313.0      2.10      8.30     99.00     99.00
 8   4 15  4     15.0 1   292.0      1.50      7.90     99.00     99.00
 8   4 15  5     15.0 1   295.0      1.50      7.40     99.00     99.00
 8   4 15  6     15.0 1   284.0      1.50      7.00     99.00     99.00
 8   4 15  7     15.0 1   343.0      4.60      7.90     99.00     99.00
 8   4 15  8     15.0 1   343.0      4.10      9.10     99.00     99.00
 8   4 15  9     15.0 1   345.0      3.60     10.10     99.00     99.00
 8   4 15 10     15.0 1   349.0      3.10     10.80     99.00     99.00
 8   4 15 11     15.0 1   341.0      3.60     12.10     99.00     99.00
 8   4 15 12     15.0 1   329.0      4.10     13.10     99.00     99.00
 8   4 15 13     15.0 1   328.0      4.60     14.00     99.00     99.00
 8   4 15 14     15.0 1   335.0      5.10     14.60     99.00     99.00
 8   4 15 15     15.0 1   335.0      5.70     15.00     99.00     99.00
 8   4 15 16     15.0 1   335.0      5.10     15.10     99.00     99.00
 8   4 15 17     15.0 1   326.0      5.10     15.10     99.00     99.00
 8   4 15 18     15.0 1   321.0      3.60     14.10     99.00     99.00
 8   4 15 19     15.0 1   318.0      3.60     12.50     99.00     99.00
 8   4 15 20     15.0 1   319.0      3.10     11.50     99.00     99.00
 8   4 15 21     15.0 1   306.0      2.60     11.00     99.00     99.00
 8   4 15 22     15.0 1   305.0      1.50     10.40     99.00     99.00
 8   4 15 23     15.0 1   268.0      1.50      9.90     99.00     99.00
 8   4 15 24     15.0 1   227.0      0.50      9.30     99.00     99.00
 8   4 16  1     15.0 1   149.0      1.00      8.60     99.00     99.00
 8   4 16  2     15.0 1   159.0      1.50      7.80     99.00     99.00
 8   4 16  3     15.0 1   176.0      1.50      7.30     99.00     99.00
 8   4 16  4     15.0 1   217.0      1.50      6.90     99.00     99.00
 8   4 16  5     15.0 1   250.0      1.50      6.50     99.00     99.00
 8   4 16  6     15.0 1   249.0      1.50      6.10     99.00     99.00
 8   4 16  7     15.0 1   286.0      0.50      7.10     99.00     99.00
 8   4 16  8     15.0 1   310.0      0.50      9.60     99.00     99.00
 8   4 16  9     15.0 1     0.0      0.00     11.30     99.00     99.00
 8   4 16 10     15.0 1     0.0      0.00     13.10     99.00     99.00
 8   4 16 11     15.0 1     0.0      0.00     15.00     99.00     99.00
 8   4 16 12     15.0 1     0.0      0.00     16.60     99.00     99.00
 8   4 16 13     15.0 1     0.0      0.00     18.40     99.00     99.00
 8   4 16 14     15.0 1   325.0      1.00     19.60     99.00     99.00
 8   4 16 15     15.0 1   342.0      1.50     20.40     99.00     99.00
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 8  4 16 16    15.0 1   349.0     2.60    20.60    99.00    99.00
 8  4 16 17    15.0 1     2.0     2.60    20.40    99.00    99.00
 8  4 16 18    15.0 1     3.0     2.10    19.80    99.00    99.00
 8  4 16 19    15.0 1     0.0     0.00    18.60    99.00    99.00
 8  4 16 20    15.0 1    20.0     0.50    17.30    99.00    99.00
 8  4 16 21    15.0 1     0.0     0.00    15.60    99.00    99.00
 8  4 16 22    15.0 1   195.0     0.50    14.10    99.00    99.00
 8  4 16 23    15.0 1   182.0     0.50    13.00    99.00    99.00
 8  4 16 24    15.0 1   135.0     1.00    12.10    99.00    99.00
 8  4 17  1    15.0 1   119.0     1.00    11.30    99.00    99.00
 8  4 17  2    15.0 1   279.0     0.50    10.80    99.00    99.00
 8  4 17  3    15.0 1   288.0     2.10    10.30    99.00    99.00
 8  4 17  4    15.0 1   277.0     2.60     9.80    99.00    99.00
 8  4 17  5    15.0 1   284.0     2.60     9.30    99.00    99.00
 8  4 17  6    15.0 1   278.0     2.60     9.00    99.00    99.00
 8  4 17  7    15.0 1   315.0     2.10    10.00    99.00    99.00
 8  4 17  8    15.0 1   312.0     1.50    12.10    99.00    99.00
 8  4 17  9    15.0 1     0.0     0.00    15.00    99.00    99.00
 8  4 17 10    15.0 1     0.0     0.00    17.60    99.00    99.00
 8  4 17 11    15.0 1     0.0     0.00    19.80    99.00    99.00
 8  4 17 12    15.0 1     0.0     0.00    21.60    99.00    99.00
 8  4 17 13    15.0 1     0.0     0.00    23.10    99.00    99.00
 8  4 17 14    15.0 1    35.0     0.50    24.10    99.00    99.00
 8  4 17 15    15.0 1    24.0     1.00    24.90    99.00    99.00
 8  4 17 16    15.0 1    35.0     1.50    25.00    99.00    99.00
 8  4 17 17    15.0 1    31.0     2.10    24.40    99.00    99.00
 8  4 17 18    15.0 1    35.0     3.10    23.40    99.00    99.00
 8  4 17 19    15.0 1    39.0     3.60    22.10    99.00    99.00
 8  4 17 20    15.0 1    39.0     2.10    20.60    99.00    99.00
 8  4 17 21    15.0 1   259.0     2.10    18.80    99.00    99.00
 8  4 17 22    15.0 1   259.0     4.10    16.90    99.00    99.00
 8  4 17 23    15.0 1   293.0     3.60    16.10    99.00    99.00
 8  4 17 24    15.0 1   300.0     3.10    15.30    99.00    99.00
 8  4 18  1    15.0 1   335.0     1.50    14.30    99.00    99.00
 8  4 18  2    15.0 1    39.0     1.50    14.00    99.00    99.00
 8  4 18  3    15.0 1    49.0     1.50    13.10    99.00    99.00
 8  4 18  4    15.0 1    40.0     1.00    12.10    99.00    99.00
 8  4 18  5    15.0 1     0.0     0.00    11.10    99.00    99.00
 8  4 18  6    15.0 1     0.0     0.00    10.50    99.00    99.00
 8  4 18  7    15.0 1     0.0     0.00    11.10    99.00    99.00
 8  4 18  8    15.0 1     0.0     0.00    14.90    99.00    99.00
 8  4 18  9    15.0 1     0.0     0.00    17.40    99.00    99.00
 8  4 18 10    15.0 1     0.0     0.00    20.10    99.00    99.00
 8  4 18 11    15.0 1     0.0     0.00    22.10    99.00    99.00
 8  4 18 12    15.0 1     0.0     0.00    23.80    99.00    99.00
 8  4 18 13    15.0 1     0.0     0.00    25.10    99.00    99.00
 8  4 18 14    15.0 1   356.0     0.50    26.10    99.00    99.00
 8  4 18 15    15.0 1   346.0     0.50    26.80    99.00    99.00
 8  4 18 16    15.0 1   348.0     1.00    27.10    99.00    99.00
 8  4 18 17    15.0 1   300.0     2.10    26.40    99.00    99.00
 8  4 18 18    15.0 1   276.0     5.10    23.60    99.00    99.00
 8  4 18 19    15.0 1   283.0     5.10    19.50    99.00    99.00
 8  4 18 20    15.0 1   268.0     5.10    17.00    99.00    99.00
 8  4 18 21    15.0 1   275.0     5.10    15.10    99.00    99.00
 8  4 18 22    15.0 1   274.0     4.10    13.80    99.00    99.00
 8  4 18 23    15.0 1   270.0     2.60    13.00    99.00    99.00
 8  4 18 24    15.0 1   289.0     1.50    12.50    99.00    99.00
 8  4 19  1    15.0 1   259.0     2.60    11.90    99.00    99.00
 8  4 19  2    15.0 1   238.0     3.60    10.90    99.00    99.00
 8  4 19  3    15.0 1   239.0     3.60    10.30    99.00    99.00
 8  4 19  4    15.0 1   243.0     3.10     9.90    99.00    99.00
 8  4 19  5    15.0 1   255.0     3.10     9.90    99.00    99.00
 8  4 19  6    15.0 1   274.0     3.60    10.10    99.00    99.00
 8  4 19  7    15.0 1   279.0     3.10    10.50    99.00    99.00
 8  4 19  8    15.0 1   298.0     3.10    10.80    99.00    99.00
 8  4 19  9    15.0 1   313.0     2.60    11.10    99.00    99.00
 8  4 19 10    15.0 1   324.0     2.10    11.50    99.00    99.00
 8  4 19 11    15.0 1   317.0     2.60    12.00    99.00    99.00
 8  4 19 12    15.0 1   345.0     2.60    12.60    99.00    99.00
 8  4 19 13    15.0 1     0.0     0.00    14.30    99.00    99.00
 8  4 19 14    15.0 1     6.0     3.10    15.60    99.00    99.00
 8  4 19 15    15.0 1    13.0     3.60    16.60    99.00    99.00
 8  4 19 16    15.0 1     3.0     4.60    17.60    99.00    99.00
 8  4 19 17    15.0 1   352.0     5.10    17.50    99.00    99.00
 8  4 19 18    15.0 1   339.0     3.60    16.60    99.00    99.00
 8  4 19 19    15.0 1   343.0     5.10    14.30    99.00    99.00
 8  4 19 20    15.0 1   336.0     5.10    12.60    99.00    99.00
```

8	4	19	21	15.0	1	322.0	5.10	11.40	99.00	99.00
8	4	19	22	15.0	1	308.0	5.10	9.90	99.00	99.00
8	4	19	23	15.0	1	321.0	4.60	8.60	99.00	99.00
8	4	19	24	15.0	1	325.0	4.10	7.80	99.00	99.00
8	4	20	1	15.0	1	320.0	4.10	7.00	99.00	99.00
8	4	20	2	15.0	1	325.0	3.60	6.30	99.00	99.00
8	4	20	3	15.0	1	313.0	3.10	5.60	99.00	99.00
8	4	20	4	15.0	1	296.0	2.10	5.40	99.00	99.00
8	4	20	5	15.0	1	258.0	1.50	5.10	99.00	99.00
8	4	20	6	15.0	1	216.0	2.10	4.90	99.00	99.00
8	4	20	7	15.0	1	337.0	2.10	6.10	99.00	99.00
8	4	20	8	15.0	1	349.0	1.50	7.40	99.00	99.00
8	4	20	9	15.0	1	347.0	0.50	8.80	99.00	99.00
8	4	20	10	15.0	1	0.0	0.00	10.30	99.00	99.00
8	4	20	11	15.0	1	0.0	0.00	11.90	99.00	99.00
8	4	20	12	15.0	1	326.0	1.00	13.30	99.00	99.00
8	4	20	13	15.0	1	333.0	2.60	14.40	99.00	99.00
8	4	20	14	15.0	1	338.0	4.10	15.10	99.00	99.00
8	4	20	15	15.0	1	343.0	5.10	15.30	99.00	99.00
8	4	20	16	15.0	1	339.0	5.70	15.10	99.00	99.00
8	4	20	17	15.0	1	344.0	5.70	14.60	99.00	99.00
8	4	20	18	15.0	1	344.0	3.60	13.60	99.00	99.00
8	4	20	19	15.0	1	353.0	4.10	11.60	99.00	99.00
8	4	20	20	15.0	1	348.0	3.60	10.40	99.00	99.00
8	4	20	21	15.0	1	339.0	2.60	9.60	99.00	99.00
8	4	20	22	15.0	1	320.0	1.50	9.00	99.00	99.00
8	4	20	23	15.0	1	259.0	1.00	8.40	99.00	99.00
8	4	20	24	15.0	1	267.0	0.50	8.00	99.00	99.00
8	4	21	1	15.0	1	270.0	0.50	7.30	99.00	99.00
8	4	21	2	15.0	1	310.0	1.00	6.60	99.00	99.00
8	4	21	3	15.0	1	316.0	1.50	6.10	99.00	99.00
8	4	21	4	15.0	1	317.0	1.50	5.80	99.00	99.00
8	4	21	5	15.0	1	300.0	1.00	5.30	99.00	99.00
8	4	21	6	15.0	1	277.0	0.50	4.90	99.00	99.00
8	4	21	7	15.0	1	355.0	1.50	6.00	99.00	99.00
8	4	21	8	15.0	1	1.0	0.50	7.60	99.00	99.00
8	4	21	9	15.0	1	0.0	0.00	9.10	99.00	99.00
8	4	21	10	15.0	1	0.0	0.00	10.90	99.00	99.00
8	4	21	11	15.0	1	0.0	0.00	12.40	99.00	99.00
8	4	21	12	15.0	1	0.0	0.00	14.00	99.00	99.00
8	4	21	13	15.0	1	305.0	1.00	15.50	99.00	99.00
8	4	21	14	15.0	1	324.0	1.50	16.60	99.00	99.00
8	4	21	15	15.0	1	340.0	2.60	17.30	99.00	99.00
8	4	21	16	15.0	1	351.0	3.10	17.60	99.00	99.00
8	4	21	17	15.0	1	359.0	3.60	17.40	99.00	99.00
8	4	21	18	15.0	1	0.0	0.00	16.60	99.00	99.00
8	4	21	19	15.0	1	359.0	3.60	15.60	99.00	99.00
8	4	21	20	15.0	1	354.0	3.10	14.30	99.00	99.00
8	4	21	21	15.0	1	336.0	2.60	13.10	99.00	99.00
8	4	21	22	15.0	1	328.0	2.10	11.80	99.00	99.00
8	4	21	23	15.0	1	334.0	1.50	10.80	99.00	99.00
8	4	21	24	15.0	1	327.0	2.10	9.90	99.00	99.00
8	4	22	1	15.0	1	326.0	2.60	9.10	99.00	99.00
8	4	22	2	15.0	1	340.0	2.10	8.60	99.00	99.00
8	4	22	3	15.0	1	360.0	1.00	8.00	99.00	99.00
8	4	22	4	15.0	1	27.0	0.50	7.50	99.00	99.00
8	4	22	5	15.0	1	20.0	0.50	7.00	99.00	99.00
8	4	22	6	15.0	1	0.0	0.00	6.40	99.00	99.00
8	4	22	7	15.0	1	0.0	0.00	7.50	99.00	99.00
8	4	22	8	15.0	1	0.0	0.00	9.60	99.00	99.00
8	4	22	9	15.0	1	0.0	0.00	11.30	99.00	99.00
8	4	22	10	15.0	1	0.0	0.00	13.10	99.00	99.00
8	4	22	11	15.0	1	0.0	0.00	15.00	99.00	99.00
8	4	22	12	15.0	1	0.0	0.00	16.60	99.00	99.00
8	4	22	13	15.0	1	332.0	0.50	17.60	99.00	99.00
8	4	22	14	15.0	1	347.0	0.50	18.40	99.00	99.00
8	4	22	15	15.0	1	11.0	1.50	18.80	99.00	99.00
8	4	22	16	15.0	1	19.0	2.10	18.90	99.00	99.00
8	4	22	17	15.0	1	51.0	2.10	18.50	99.00	99.00
8	4	22	18	15.0	1	49.0	2.10	18.10	99.00	99.00
8	4	22	19	15.0	1	0.0	0.00	17.50	99.00	99.00
8	4	22	20	15.0	1	255.0	2.10	16.80	99.00	99.00
8	4	22	21	15.0	1	267.0	3.60	15.40	99.00	99.00
8	4	22	22	15.0	1	280.0	4.10	14.00	99.00	99.00
8	4	22	23	15.0	1	292.0	4.10	12.60	99.00	99.00
8	4	22	24	15.0	1	290.0	3.10	11.80	99.00	99.00
8	4	23	1	15.0	1	294.0	2.60	11.60	99.00	99.00

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 8  4 23  2    15.0 1   292.0     1.50    11.50    99.00    99.00
 8  4 23  3    15.0 1   311.0     1.00    11.60    99.00    99.00
 8  4 23  4    15.0 1   296.0     1.50    11.60    99.00    99.00
 8  4 23  5    15.0 1   277.0     1.50    11.50    99.00    99.00
 8  4 23  6    15.0 1   281.0     1.50    11.50    99.00    99.00
 8  4 23  7    15.0 1   286.0     1.50    11.40    99.00    99.00
 8  4 23  8    15.0 1   291.0     3.60    11.80    99.00    99.00
 8  4 23  9    15.0 1   306.0     2.60    12.50    99.00    99.00
 8  4 23 10    15.0 1   338.0     1.50    13.60    99.00    99.00
 8  4 23 11    15.0 1   336.0     1.00    14.60    99.00    99.00
 8  4 23 12    15.0 1   333.0     0.50    15.10    99.00    99.00
 8  4 23 13    15.0 1   309.0     0.50    15.60    99.00    99.00
 8  4 23 14    15.0 1   332.0     0.50    16.50    99.00    99.00
 8  4 23 15    15.0 1   338.0     0.50    17.10    99.00    99.00
 8  4 23 16    15.0 1   320.0     1.00    17.60    99.00    99.00
 8  4 23 17    15.0 1     2.0     1.00    17.60    99.00    99.00
 8  4 23 18    15.0 1     0.0     0.00    17.50    99.00    99.00
 8  4 23 19    15.0 1     0.0     0.00    16.90    99.00    99.00
 8  4 23 20    15.0 1     9.0     1.50    16.10    99.00    99.00
 8  4 23 21    15.0 1   348.0     1.50    15.30    99.00    99.00
 8  4 23 22    15.0 1   360.0     3.60    14.00    99.00    99.00
 8  4 23 23    15.0 1   355.0     3.60    12.40    99.00    99.00
 8  4 23 24    15.0 1   340.0     3.10    11.60    99.00    99.00
 8  4 24  1    15.0 1   322.0     3.60    10.50    99.00    99.00
 8  4 24  2    15.0 1   318.0     3.60     9.40    99.00    99.00
 8  4 24  3    15.0 1   308.0     3.10     8.60    99.00    99.00
 8  4 24  4    15.0 1   306.0     2.60     7.90    99.00    99.00
 8  4 24  5    15.0 1   302.0     1.50     7.50    99.00    99.00
 8  4 24  6    15.0 1   264.0     1.00     7.10    99.00    99.00
 8  4 24  7    15.0 1   348.0     1.50     8.60    99.00    99.00
 8  4 24  8    15.0 1    10.0     0.50    10.10    99.00    99.00
 8  4 24  9    15.0 1     0.0     0.00    11.60    99.00    99.00
 8  4 24 10    15.0 1     0.0     0.00    13.40    99.00    99.00
 8  4 24 11    15.0 1     0.0     0.00    15.00    99.00    99.00
 8  4 24 12    15.0 1     0.0     0.00    16.60    99.00    99.00
 8  4 24 13    15.0 1     0.0     0.00    18.10    99.00    99.00
 8  4 24 14    15.0 1   315.0     0.50    19.30    99.00    99.00
 8  4 24 15    15.0 1   341.0     1.50    20.10    99.00    99.00
 8  4 24 16    15.0 1     2.0     2.60    21.00    99.00    99.00
 8  4 24 17    15.0 1     9.0     3.10    20.80    99.00    99.00
 8  4 24 18    15.0 1    14.0     2.60    20.10    99.00    99.00
 8  4 24 19    15.0 1     0.0     0.00    19.10    99.00    99.00
 8  4 24 20    15.0 1   350.0     2.10    18.10    99.00    99.00
 8  4 24 21    15.0 1   321.0     1.00    16.90    99.00    99.00
 8  4 24 22    15.0 1   306.0     1.50    15.60    99.00    99.00
 8  4 24 23    15.0 1   297.0     1.50    14.50    99.00    99.00
 8  4 24 24    15.0 1   314.0     1.00    13.40    99.00    99.00
 8  4 25  1    15.0 1   349.0     0.50    12.60    99.00    99.00
 8  4 25  2    15.0 1   333.0     1.00    12.10    99.00    99.00
 8  4 25  3    15.0 1   298.0     1.50    11.40    99.00    99.00
 8  4 25  4    15.0 1   302.0     2.10    10.60    99.00    99.00
 8  4 25  5    15.0 1   300.0     1.50    10.10    99.00    99.00
 8  4 25  6    15.0 1   302.0     0.50     9.60    99.00    99.00
 8  4 25  7    15.0 1   345.0     1.00    10.90    99.00    99.00
 8  4 25  8    15.0 1     0.0     0.00    12.80    99.00    99.00
 8  4 25  9    15.0 1     0.0     0.00    15.30    99.00    99.00
 8  4 25 10    15.0 1     0.0     0.00    17.30    99.00    99.00
 8  4 25 11    15.0 1     0.0     0.00    19.50    99.00    99.00
 8  4 25 12    15.0 1   296.0     0.50    21.10    99.00    99.00
 8  4 25 13    15.0 1   312.0     0.50    22.80    99.00    99.00
 8  4 25 14    15.0 1   344.0     1.50    24.00    99.00    99.00
 8  4 25 15    15.0 1   350.0     3.10    24.40    99.00    99.00
 8  4 25 16    15.0 1     0.0     0.00    24.30    99.00    99.00
 8  4 25 17    15.0 1    15.0     3.10    23.60    99.00    99.00
 8  4 25 18    15.0 1     5.0     3.10    22.80    99.00    99.00
 8  4 25 19    15.0 1   346.0     3.10    21.90    99.00    99.00
 8  4 25 20    15.0 1   336.0     2.60    20.60    99.00    99.00
 8  4 25 21    15.0 1   328.0     1.50    19.40    99.00    99.00
 8  4 25 22    15.0 1   277.0     0.50    18.10    99.00    99.00
 8  4 25 23    15.0 1   277.0     1.00    17.00    99.00    99.00
 8  4 25 24    15.0 1   288.0     1.50    16.10    99.00    99.00
 8  4 26  1    15.0 1   299.0     1.00    15.30    99.00    99.00
 8  4 26  2    15.0 1   300.0     1.00    14.60    99.00    99.00
 8  4 26  3    15.0 1   279.0     1.00    14.00    99.00    99.00
 8  4 26  4    15.0 1   270.0     1.50    13.60    99.00    99.00
 8  4 26  5    15.0 1   267.0     1.50    13.30    99.00    99.00
 8  4 26  6    15.0 1   271.0     1.50    13.10    99.00    99.00
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 8  4 26  7    15.0 1   289.0     1.50    14.50    99.00    99.00
 8  4 26  8    15.0 1   287.0     0.50    16.60    99.00    99.00
 8  4 26  9    15.0 1   265.0     0.50    18.60    99.00    99.00
 8  4 26 10    15.0 1   270.0     0.50    20.50    99.00    99.00
 8  4 26 11    15.0 1   302.0     0.50    22.10    99.00    99.00
 8  4 26 12    15.0 1     0.0     0.00    23.60    99.00    99.00
 8  4 26 13    15.0 1   319.0     0.50    25.10    99.00    99.00
 8  4 26 14    15.0 1   336.0     1.00    26.10    99.00    99.00
 8  4 26 15    15.0 1   340.0     2.10    26.90    99.00    99.00
 8  4 26 16    15.0 1   348.0     3.10    27.00    99.00    99.00
 8  4 26 17    15.0 1   358.0     2.60    26.60    99.00    99.00
 8  4 26 18    15.0 1     0.0     0.00    25.80    99.00    99.00
 8  4 26 19    15.0 1     6.0     3.10    24.60    99.00    99.00
 8  4 26 20    15.0 1     0.0     0.00    23.40    99.00    99.00
 8  4 26 21    15.0 1   316.0     1.00    22.10    99.00    99.00
 8  4 26 22    15.0 1   287.0     1.00    21.00    99.00    99.00
 8  4 26 23    15.0 1   278.0     0.50    20.10    99.00    99.00
 8  4 26 24    15.0 1   309.0     0.50    19.10    99.00    99.00
 8  4 27  1    15.0 1     0.0     0.00    18.50    99.00    99.00
 8  4 27  2    15.0 1   231.0     0.50    17.60    99.00    99.00
 8  4 27  3    15.0 1   260.0     1.50    17.00    99.00    99.00
 8  4 27  4    15.0 1   274.0     2.10    16.40    99.00    99.00
 8  4 27  5    15.0 1   285.0     2.10    15.90    99.00    99.00
 8  4 27  6    15.0 1   292.0     2.10    15.50    99.00    99.00
 8  4 27  7    15.0 1   297.0     2.10    16.60    99.00    99.00
 8  4 27  8    15.0 1   302.0     1.50    19.30    99.00    99.00
 8  4 27  9    15.0 1   298.0     0.50    21.80    99.00    99.00
 8  4 27 10    15.0 1     0.0     0.00    24.10    99.00    99.00
 8  4 27 11    15.0 1   358.0     0.50    26.10    99.00    99.00
 8  4 27 12    15.0 1     0.0     0.00    27.80    99.00    99.00
 8  4 27 13    15.0 1     0.0     0.00    29.00    99.00    99.00
 8  4 27 14    15.0 1   357.0     2.10    29.60    99.00    99.00
 8  4 27 15    15.0 1     0.0     0.00    29.60    99.00    99.00
 8  4 27 16    15.0 1    14.0     3.10    28.80    99.00    99.00
 8  4 27 17    15.0 1    19.0     3.60    27.50    99.00    99.00
 8  4 27 18    15.0 1    16.0     3.60    26.10    99.00    99.00
 8  4 27 19    15.0 1    25.0     3.60    25.50    99.00    99.00
 8  4 27 20    15.0 1    17.0     2.10    24.60    99.00    99.00
 8  4 27 21    15.0 1   320.0     0.50    23.60    99.00    99.00
 8  4 27 22    15.0 1   275.0     3.10    22.10    99.00    99.00
 8  4 27 23    15.0 1   291.0     3.60    21.30    99.00    99.00
 8  4 27 24    15.0 1   313.0     3.10    20.90    99.00    99.00
 8  4 28  1    15.0 1   330.0     3.10    20.40    99.00    99.00
 8  4 28  2    15.0 1   347.0     2.60    19.60    99.00    99.00
 8  4 28  3    15.0 1   330.0     2.60    18.60    99.00    99.00
 8  4 28  4    15.0 1   320.0     2.10    17.80    99.00    99.00
 8  4 28  5    15.0 1   309.0     1.50    17.40    99.00    99.00
 8  4 28  6    15.0 1   291.0     1.50    17.10    99.00    99.00
 8  4 28  7    15.0 1   279.0     1.00    17.00    99.00    99.00
 8  4 28  8    15.0 1   327.0     1.50    17.60    99.00    99.00
 8  4 28  9    15.0 1     0.0     0.00    18.60    99.00    99.00
 8  4 28 10    15.0 1     0.0     0.00    20.30    99.00    99.00
 8  4 28 11    15.0 1     0.0     0.00    22.00    99.00    99.00
 8  4 28 12    15.0 1     0.0     0.00    23.30    99.00    99.00
 8  4 28 13    15.0 1   350.0     0.50    24.40    99.00    99.00
 8  4 28 14    15.0 1     9.0     1.00    25.10    99.00    99.00
 8  4 28 15    15.0 1    20.0     2.10    25.50    99.00    99.00
 8  4 28 16    15.0 1    33.0     2.10    25.30    99.00    99.00
 8  4 28 17    15.0 1    22.0     2.10    25.00    99.00    99.00
 8  4 28 18    15.0 1   335.0     2.10    24.40    99.00    99.00
 8  4 28 19    15.0 1   314.0     3.10    23.60    99.00    99.00
 8  4 28 20    15.0 1   311.0     3.60    22.80    99.00    99.00
 8  4 28 21    15.0 1   317.0     3.60    21.40    99.00    99.00
 8  4 28 22    15.0 1   337.0     3.60    20.10    99.00    99.00
 8  4 28 23    15.0 1   337.0     4.10    18.90    99.00    99.00
 8  4 28 24    15.0 1   340.0     3.60    17.80    99.00    99.00
 8  4 29  1    15.0 1   336.0     3.60    16.60    99.00    99.00
 8  4 29  2    15.0 1   339.0     3.10    15.60    99.00    99.00
 8  4 29  3    15.0 1   337.0     3.10    14.90    99.00    99.00
 8  4 29  4    15.0 1   338.0     2.60    14.30    99.00    99.00
 8  4 29  5    15.0 1   339.0     2.60    13.60    99.00    99.00
 8  4 29  6    15.0 1   342.0     2.10    13.10    99.00    99.00
 8  4 29  7    15.0 1   337.0     3.60    13.60    99.00    99.00
 8  4 29  8    15.0 1   343.0     2.60    14.50    99.00    99.00
 8  4 29  9    15.0 1   328.0     1.50    15.60    99.00    99.00
 8  4 29 10    15.0 1   324.0     1.50    17.10    99.00    99.00
 8  4 29 11    15.0 1   317.0     2.10    18.60    99.00    99.00
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 8  4 29 12    15.0 1   328.0     3.10    19.60    99.00    99.00
 8  4 29 13    15.0 1   339.0     4.60    20.50    99.00    99.00
 8  4 29 14    15.0 1   347.0     5.70    20.80    99.00    99.00
 8  4 29 15    15.0 1   353.0     6.20    20.60    99.00    99.00
 8  4 29 16    15.0 1   338.0     6.70    21.10    99.00    99.00
 8  4 29 17    15.0 1   338.0     6.20    20.30    99.00    99.00
 8  4 29 18    15.0 1   342.0     4.10    18.90    99.00    99.00
 8  4 29 19    15.0 1   342.0     4.60    17.00    99.00    99.00
 8  4 29 20    15.0 1   342.0     4.60    15.40    99.00    99.00
 8  4 29 21    15.0 1   345.0     4.60    14.30    99.00    99.00
 8  4 29 22    15.0 1   345.0     4.10    13.10    99.00    99.00
 8  4 29 23    15.0 1   333.0     4.10    12.30    99.00    99.00
 8  4 29 24    15.0 1   309.0     4.10    11.60    99.00    99.00
 8  4 30  1    15.0 1   310.0     4.10    10.80    99.00    99.00
 8  4 30  2    15.0 1   312.0     4.10    10.10    99.00    99.00
 8  4 30  3    15.0 1   314.0     3.60     9.50    99.00    99.00
 8  4 30  4    15.0 1   315.0     3.10     8.90    99.00    99.00
 8  4 30  5    15.0 1   301.0     2.10     8.50    99.00    99.00
 8  4 30  6    15.0 1   285.0     1.50     8.10    99.00    99.00
 8  4 30  7    15.0 1   336.0     5.10     9.60    99.00    99.00
 8  4 30  8    15.0 1   341.0     5.10    10.90    99.00    99.00
 8  4 30  9    15.0 1   344.0     4.60    12.10    99.00    99.00
 8  4 30 10    15.0 1   342.0     4.10    13.50    99.00    99.00
 8  4 30 11    15.0 1   341.0     4.60    14.90    99.00    99.00
 8  4 30 12    15.0 1   338.0     4.60    16.00    99.00    99.00
 8  4 30 13    15.0 1   343.0     5.10    16.90    99.00    99.00
 8  4 30 14    15.0 1   332.0     5.70    17.60    99.00    99.00
 8  4 30 15    15.0 1   332.0     6.20    18.10    99.00    99.00
 8  4 30 16    15.0 1   330.0     6.70    18.40    99.00    99.00
 8  4 30 17    15.0 1   326.0     5.70    18.00    99.00    99.00
 8  4 30 18    15.0 1   321.0     4.10    16.60    99.00    99.00
 8  4 30 19    15.0 1   321.0     4.10    14.90    99.00    99.00
 8  4 30 20    15.0 1   310.0     3.60    13.60    99.00    99.00
 8  4 30 21    15.0 1   308.0     3.10    13.00    99.00    99.00
 8  4 30 22    15.0 1   300.0     1.50    12.50    99.00    99.00
 8  4 30 23    15.0 1   227.0     0.50    12.10    99.00    99.00
 8  4 30 24    15.0 1     0.0     0.00    12.10    99.00    99.00
 8  5  1  1    15.0 1   102.0     0.50    11.50    99.00    99.00
 8  5  1  2    15.0 1   155.0     1.00    10.50    99.00    99.00
 8  5  1  3    15.0 1   168.0     0.50     9.80    99.00    99.00
 8  5  1  4    15.0 1   188.0     0.50     9.10    99.00    99.00
 8  5  1  5    15.0 1   244.0     1.00     8.90    99.00    99.00
 8  5  1  6    15.0 1   246.0     1.50     8.60    99.00    99.00
 8  5  1  7    15.0 1   313.0     1.00    10.40    99.00    99.00
 8  5  1  8    15.0 1   346.0     1.00    12.30    99.00    99.00
 8  5  1  9    15.0 1     0.0     0.00    13.80    99.00    99.00
 8  5  1 10    15.0 1     0.0     0.00    15.40    99.00    99.00
 8  5  1 11    15.0 1     0.0     0.00    17.00    99.00    99.00
 8  5  1 12    15.0 1   296.0     0.50    18.50    99.00    99.00
 8  5  1 13    15.0 1   316.0     1.50    19.80    99.00    99.00
 8  5  1 14    15.0 1   342.0     1.50    20.90    99.00    99.00
 8  5  1 15    15.0 1   346.0     2.60    21.50    99.00    99.00
 8  5  1 16    15.0 1     0.0     0.00    21.60    99.00    99.00
 8  5  1 17    15.0 1     0.0     0.00    21.40    99.00    99.00
 8  5  1 18    15.0 1     0.0     0.00    20.60    99.00    99.00
 8  5  1 19    15.0 1     4.0     2.10    19.90    99.00    99.00
 8  5  1 20    15.0 1   328.0     1.00    18.60    99.00    99.00
 8  5  1 21    15.0 1     0.0     0.00    17.30    99.00    99.00
 8  5  1 22    15.0 1   236.0     0.50    15.90    99.00    99.00
 8  5  1 23    15.0 1   254.0     0.50    14.60    99.00    99.00
 8  5  1 24    15.0 1     0.0     0.00    13.80    99.00    99.00
 8  5  2  1    15.0 1     0.0     0.00    13.10    99.00    99.00
 8  5  2  2    15.0 1   242.0     0.50    12.60    99.00    99.00
 8  5  2  3    15.0 1   271.0     1.50    12.00    99.00    99.00
 8  5  2  4    15.0 1   281.0     2.60    11.50    99.00    99.00
 8  5  2  5    15.0 1   288.0     2.60    11.00    99.00    99.00
 8  5  2  6    15.0 1   291.0     2.10    10.60    99.00    99.00
 8  5  2  7    15.0 1   317.0     2.10    12.00    99.00    99.00
 8  5  2  8    15.0 1   300.0     1.50    13.90    99.00    99.00
 8  5  2  9    15.0 1   281.0     1.00    16.60    99.00    99.00
 8  5  2 10    15.0 1   282.0     0.50    18.80    99.00    99.00
 8  5  2 11    15.0 1     0.0     0.00    20.60    99.00    99.00
 8  5  2 12    15.0 1     0.0     0.00    22.10    99.00    99.00
 8  5  2 13    15.0 1   326.0     0.50    23.60    99.00    99.00
 8  5  2 14    15.0 1   337.0     1.00    24.50    99.00    99.00
 8  5  2 15    15.0 1     4.0     2.10    25.10    99.00    99.00
 8  5  2 16    15.0 1     6.0     3.60    25.00    99.00    99.00
```

```
 8  5  2 17    15.0 1    18.0     3.10    23.60    99.00    99.00
 8  5  2 18    15.0 1    21.0     3.60    22.50    99.00    99.00
 8  5  2 19    15.0 1     0.0     0.00    21.60    99.00    99.00
 8  5  2 20    15.0 1   316.0     2.60    20.60    99.00    99.00
 8  5  2 21    15.0 1   298.0     3.60    19.50    99.00    99.00
 8  5  2 22    15.0 1   311.0     3.60    18.10    99.00    99.00
 8  5  2 23    15.0 1   316.0     3.60    16.80    99.00    99.00
 8  5  2 24    15.0 1   326.0     3.60    15.50    99.00    99.00
 8  5  3  1    15.0 1   347.0     3.60    14.30    99.00    99.00
 8  5  3  2    15.0 1     0.0     0.00    13.10    99.00    99.00
 8  5  3  3    15.0 1     0.0     0.00    12.30    99.00    99.00
 8  5  3  4    15.0 1   354.0     2.10    11.80    99.00    99.00
 8  5  3  5    15.0 1   352.0     1.50    11.30    99.00    99.00
 8  5  3  6    15.0 1     0.0     0.00    11.00    99.00    99.00
 8  5  3  7    15.0 1     0.0     0.00    12.10    99.00    99.00
 8  5  3  8    15.0 1     0.0     0.00    14.10    99.00    99.00
 8  5  3  9    15.0 1     0.0     0.00    16.10    99.00    99.00
 8  5  3 10    15.0 1     0.0     0.00    18.10    99.00    99.00
 8  5  3 11    15.0 1     0.0     0.00    20.10    99.00    99.00
 8  5  3 12    15.0 1     0.0     0.00    21.60    99.00    99.00
 8  5  3 13    15.0 1     0.0     0.00    22.90    99.00    99.00
 8  5  3 14    15.0 1   335.0     0.50    23.90    99.00    99.00
 8  5  3 15    15.0 1   351.0     1.00    24.60    99.00    99.00
 8  5  3 16    15.0 1     2.0     2.10    24.90    99.00    99.00
 8  5  3 17    15.0 1    11.0     3.10    24.60    99.00    99.00
 8  5  3 18    15.0 1    18.0     3.10    23.60    99.00    99.00
 8  5  3 19    15.0 1     8.0     3.10    22.60    99.00    99.00
 8  5  3 20    15.0 1   270.0     4.10    21.10    99.00    99.00
 8  5  3 21    15.0 1   257.0     6.20    17.30    99.00    99.00
 8  5  3 22    15.0 1   261.0     5.10    15.90    99.00    99.00
 8  5  3 23    15.0 1   258.0     4.60    14.80    99.00    99.00
 8  5  3 24    15.0 1   258.0     4.10    13.90    99.00    99.00
 8  5  4  1    15.0 1   267.0     3.60    13.30    99.00    99.00
 8  5  4  2    15.0 1   292.0     1.50    12.90    99.00    99.00
 8  5  4  3    15.0 1   325.0     1.00    12.60    99.00    99.00
 8  5  4  4    15.0 1   321.0     1.00    12.10    99.00    99.00
 8  5  4  5    15.0 1   318.0     0.50    11.90    99.00    99.00
 8  5  4  6    15.0 1    24.0     0.50    11.60    99.00    99.00
 8  5  4  7    15.0 1   293.0     1.00    13.10    99.00    99.00
 8  5  4  8    15.0 1     0.0     0.00    15.00    99.00    99.00
 8  5  4  9    15.0 1     0.0     0.00    16.60    99.00    99.00
 8  5  4 10    15.0 1     0.0     0.00    18.30    99.00    99.00
 8  5  4 11    15.0 1     0.0     0.00    20.10    99.00    99.00
 8  5  4 12    15.0 1     0.0     0.00    21.60    99.00    99.00
 8  5  4 13    15.0 1     0.0     0.00    23.00    99.00    99.00
 8  5  4 14    15.0 1   321.0     0.50    24.10    99.00    99.00
 8  5  4 15    15.0 1   295.0     0.50    24.60    99.00    99.00
 8  5  4 16    15.0 1   264.0     3.60    24.60    99.00    99.00
 8  5  4 17    15.0 1   260.0     4.60    22.90    99.00    99.00
 8  5  4 18    15.0 1   227.0     4.10    21.00    99.00    99.00
 8  5  4 19    15.0 1   233.0     5.10    18.60    99.00    99.00
 8  5  4 20    15.0 1   247.0     6.20    16.50    99.00    99.00
 8  5  4 21    15.0 1   269.0     2.60    15.80    99.00    99.00
 8  5  4 22    15.0 1    22.0     2.10    16.00    99.00    99.00
 8  5  4 23    15.0 1   264.0     1.00    15.60    99.00    99.00
 8  5  4 24    15.0 1   228.0     2.60    14.60    99.00    99.00
 8  5  5  1    15.0 1   285.0     1.00    13.90    99.00    99.00
 8  5  5  2    15.0 1   222.0     0.50    13.40    99.00    99.00
 8  5  5  3    15.0 1   227.0     1.00    13.10    99.00    99.00
 8  5  5  4    15.0 1   243.0     1.50    12.90    99.00    99.00
 8  5  5  5    15.0 1   230.0     1.50    12.50    99.00    99.00
 8  5  5  6    15.0 1   248.0     1.50    12.10    99.00    99.00
 8  5  5  7    15.0 1   262.0     2.60    13.50    99.00    99.00
 8  5  5  8    15.0 1   275.0     1.50    15.10    99.00    99.00
 8  5  5  9    15.0 1   267.0     1.00    16.60    99.00    99.00
 8  5  5 10    15.0 1   262.0     0.50    18.60    99.00    99.00
 8  5  5 11    15.0 1     0.0     0.00    20.30    99.00    99.00
 8  5  5 12    15.0 1     0.0     0.00    21.90    99.00    99.00
 8  5  5 13    15.0 1     0.0     0.00    23.10    99.00    99.00
 8  5  5 14    15.0 1     0.0     0.00    24.10    99.00    99.00
 8  5  5 15    15.0 1     0.0     0.00    24.90    99.00    99.00
 8  5  5 16    15.0 1   283.0     0.50    25.10    99.00    99.00
 8  5  5 17    15.0 1     0.0     0.00    25.30    99.00    99.00
 8  5  5 18    15.0 1    31.0     1.50    24.90    99.00    99.00
 8  5  5 19    15.0 1    24.0     2.10    23.90    99.00    99.00
 8  5  5 20    15.0 1   273.0     5.70    19.60    99.00    99.00
 8  5  5 21    15.0 1   268.0     4.60    16.40    99.00    99.00
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 8  5  5 22    15.0 1   281.0     4.10    15.40    99.00    99.00
 8  5  5 23    15.0 1   261.0     2.60    14.60    99.00    99.00
 8  5  5 24    15.0 1   218.0     1.00    14.10    99.00    99.00
 8  5  6  1    15.0 1   144.0     1.00    13.80    99.00    99.00
 8  5  6  2    15.0 1   118.0     1.50    13.40    99.00    99.00
 8  5  6  3    15.0 1   142.0     1.00    13.10    99.00    99.00
 8  5  6  4    15.0 1   161.0     1.00    12.80    99.00    99.00
 8  5  6  5    15.0 1   183.0     1.00    12.30    99.00    99.00
 8  5  6  6    15.0 1   197.0     1.00    11.90    99.00    99.00
 8  5  6  7    15.0 1   215.0     0.50    13.80    99.00    99.00
 8  5  6  8    15.0 1     0.0     0.00    16.00    99.00    99.00
 8  5  6  9    15.0 1     0.0     0.00    17.60    99.00    99.00
 8  5  6 10    15.0 1     0.0     0.00    19.90    99.00    99.00
 8  5  6 11    15.0 1     0.0     0.00    21.80    99.00    99.00
 8  5  6 12    15.0 1     0.0     0.00    23.60    99.00    99.00
 8  5  6 13    15.0 1     0.0     0.00    25.10    99.00    99.00
 8  5  6 14    15.0 1   354.0     0.50    26.10    99.00    99.00
 8  5  6 15    15.0 1     0.0     0.00    26.60    99.00    99.00
 8  5  6 16    15.0 1     6.0     3.60    26.60    99.00    99.00
 8  5  6 17    15.0 1     0.0     0.00    25.60    99.00    99.00
 8  5  6 18    15.0 1   349.0     3.60    24.60    99.00    99.00
 8  5  6 19    15.0 1   316.0     4.10    23.30    99.00    99.00
 8  5  6 20    15.0 1   319.0     4.10    22.00    99.00    99.00
 8  5  6 21    15.0 1   311.0     3.60    20.60    99.00    99.00
 8  5  6 22    15.0 1   258.0     3.60    19.60    99.00    99.00
 8  5  6 23    15.0 1   246.0     3.10    18.30    99.00    99.00
 8  5  6 24    15.0 1   273.0     2.10    17.60    99.00    99.00
 8  5  7  1    15.0 1   313.0     3.60    17.00    99.00    99.00
 8  5  7  2    15.0 1   298.0     3.60    16.10    99.00    99.00
 8  5  7  3    15.0 1   297.0     2.60    15.60    99.00    99.00
 8  5  7  4    15.0 1   299.0     2.10    15.10    99.00    99.00
 8  5  7  5    15.0 1   297.0     2.10    14.60    99.00    99.00
 8  5  7  6    15.0 1   296.0     1.50    14.30    99.00    99.00
 8  5  7  7    15.0 1   329.0     2.60    15.60    99.00    99.00
 8  5  7  8    15.0 1   336.0     2.10    16.50    99.00    99.00
 8  5  7  9    15.0 1   330.0     1.50    17.60    99.00    99.00
 8  5  7 10    15.0 1   324.0     1.00    19.00    99.00    99.00
 8  5  7 11    15.0 1   316.0     1.00    20.30    99.00    99.00
 8  5  7 12    15.0 1   316.0     1.50    21.50    99.00    99.00
 8  5  7 13    15.0 1   334.0     2.60    22.40    99.00    99.00
 8  5  7 14    15.0 1   329.0     3.10    23.00    99.00    99.00
 8  5  7 15    15.0 1   326.0     4.10    23.40    99.00    99.00
 8  5  7 16    15.0 1   336.0     4.60    23.40    99.00    99.00
 8  5  7 17    15.0 1   348.0     4.60    23.00    99.00    99.00
 8  5  7 18    15.0 1   352.0     3.60    22.10    99.00    99.00
 8  5  7 19    15.0 1   336.0     4.10    20.30    99.00    99.00
 8  5  7 20    15.0 1   339.0     3.60    19.10    99.00    99.00
 8  5  7 21    15.0 1   315.0     3.10    18.60    99.00    99.00
 8  5  7 22    15.0 1   272.0     3.10    17.60    99.00    99.00
 8  5  7 23    15.0 1   271.0     3.60    16.00    99.00    99.00
 8  5  7 24    15.0 1   292.0     3.60    14.60    99.00    99.00
 8  5  8  1    15.0 1   312.0     3.10    13.80    99.00    99.00
 8  5  8  2    15.0 1   325.0     2.10    13.60    99.00    99.00
 8  5  8  3    15.0 1   323.0     1.00    13.40    99.00    99.00
 8  5  8  4    15.0 1   305.0     0.50    13.10    99.00    99.00
 8  5  8  5    15.0 1     0.0     0.00    12.60    99.00    99.00
 8  5  8  6    15.0 1     0.0     0.00    12.10    99.00    99.00
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 8  5  8  8    15.0 1     0.0     0.00    15.60    99.00    99.00
 8  5  8  9    15.0 1     0.0     0.00    17.30    99.00    99.00
 8  5  8 10    15.0 1     0.0     0.00    19.10    99.00    99.00
 8  5  8 11    15.0 1     0.0     0.00    20.60    99.00    99.00
 8  5  8 12    15.0 1     0.0     0.00    22.10    99.00    99.00
 8  5  8 13    15.0 1     0.0     0.00    23.30    99.00    99.00
 8  5  8 14    15.0 1   336.0     0.50    24.40    99.00    99.00
 8  5  8 15    15.0 1   352.0     1.50    25.00    99.00    99.00
 8  5  8 16    15.0 1    10.0     2.60    25.10    99.00    99.00
 8  5  8 17    15.0 1    18.0     3.60    24.90    99.00    99.00
 8  5  8 18    15.0 1    24.0     3.10    23.90    99.00    99.00
 8  5  8 19    15.0 1    18.0     3.10    23.10    99.00    99.00
 8  5  8 20    15.0 1   337.0     1.50    22.00    99.00    99.00
 8  5  8 21    15.0 1   263.0     2.60    20.50    99.00    99.00
 8  5  8 22    15.0 1   260.0     4.10    18.50    99.00    99.00
 8  5  8 23    15.0 1   279.0     3.60    17.00    99.00    99.00
 8  5  8 24    15.0 1   323.0     4.10    15.40    99.00    99.00
 8  5  9  1    15.0 1   341.0     3.60    14.60    99.00    99.00
 8  5  9  2    15.0 1   355.0     2.10    14.10    99.00    99.00
```

```
 8  5  9  3    15.0 1  346.0     0.50    13.80    99.00    99.00
 8  5  9  4    15.0 1    0.0     0.00    13.40    99.00    99.00
 8  5  9  5    15.0 1    0.0     0.00    12.80    99.00    99.00
 8  5  9  6    15.0 1    0.0     0.00    12.30    99.00    99.00
 8  5  9  7    15.0 1    0.0     0.00    14.10    99.00    99.00
 8  5  9  8    15.0 1    0.0     0.00    15.60    99.00    99.00
 8  5  9  9    15.0 1    0.0     0.00    17.10    99.00    99.00
 8  5  9 10    15.0 1    0.0     0.00    18.90    99.00    99.00
 8  5  9 11    15.0 1    0.0     0.00    20.60    99.00    99.00
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 8  5  9 15    15.0 1  352.0     3.60    24.50    99.00    99.00
 8  5  9 16    15.0 1  347.0     4.60    25.10    99.00    99.00
 8  5  9 17    15.0 1  347.0     4.10    24.50    99.00    99.00
 8  5  9 18    15.0 1  345.0     3.60    23.40    99.00    99.00
 8  5  9 19    15.0 1  326.0     4.10    21.50    99.00    99.00
 8  5  9 20    15.0 1  322.0     4.10    19.90    99.00    99.00
 8  5  9 21    15.0 1  323.0     3.60    19.00    99.00    99.00
 8  5  9 22    15.0 1  308.0     3.10    18.50    99.00    99.00
 8  5  9 23    15.0 1  293.0     3.60    17.30    99.00    99.00
 8  5  9 24    15.0 1  315.0     3.60    16.10    99.00    99.00
 8  5 10  1    15.0 1  307.0     2.60    15.30    99.00    99.00
 8  5 10  2    15.0 1  317.0     1.00    14.80    99.00    99.00
 8  5 10  3    15.0 1    6.0     0.50    14.40    99.00    99.00
 8  5 10  4    15.0 1   25.0     0.50    13.90    99.00    99.00
 8  5 10  5    15.0 1    0.0     0.00    13.40    99.00    99.00
 8  5 10  6    15.0 1    0.0     0.00    13.10    99.00    99.00
 8  5 10  7    15.0 1  337.0     1.00    14.10    99.00    99.00
 8  5 10  8    15.0 1  309.0     1.00    15.60    99.00    99.00
 8  5 10  9    15.0 1  304.0     0.50    17.30    99.00    99.00
 8  5 10 10    15.0 1    0.0     0.00    19.00    99.00    99.00
 8  5 10 11    15.0 1    0.0     0.00    20.60    99.00    99.00
 8  5 10 12    15.0 1    0.0     0.00    22.30    99.00    99.00
 8  5 10 13    15.0 1  313.0     0.50    23.80    99.00    99.00
 8  5 10 14    15.0 1  327.0     0.50    24.80    99.00    99.00
 8  5 10 15    15.0 1  345.0     1.00    25.50    99.00    99.00
 8  5 10 16    15.0 1  352.0     1.50    25.80    99.00    99.00
 8  5 10 17    15.0 1    6.0     2.10    25.80    99.00    99.00
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 8  5 10 22    15.0 1  264.0     4.60    18.30    99.00    99.00
 8  5 10 23    15.0 1  272.0     4.10    16.50    99.00    99.00
 8  5 10 24    15.0 1  268.0     3.10    16.00    99.00    99.00
 8  5 11  1    15.0 1  296.0     2.60    15.80    99.00    99.00
 8  5 11  2    15.0 1  319.0     2.60    15.50    99.00    99.00
 8  5 11  3    15.0 1  332.0     2.10    15.00    99.00    99.00
 8  5 11  4    15.0 1  342.0     1.50    14.50    99.00    99.00
 8  5 11  5    15.0 1  349.0     1.00    13.80    99.00    99.00
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 8  5 11  7    15.0 1   19.0     1.50    14.60    99.00    99.00
 8  5 11  8    15.0 1    0.0     0.00    16.60    99.00    99.00
 8  5 11  9    15.0 1    0.0     0.00    18.60    99.00    99.00
 8  5 11 10    15.0 1    0.0     0.00    20.60    99.00    99.00
 8  5 11 11    15.0 1    0.0     0.00    22.40    99.00    99.00
 8  5 11 12    15.0 1    0.0     0.00    24.00    99.00    99.00
 8  5 11 13    15.0 1  345.0     1.00    25.30    99.00    99.00
 8  5 11 14    15.0 1  346.0     1.50    26.30    99.00    99.00
 8  5 11 15    15.0 1  354.0     2.60    26.60    99.00    99.00
 8  5 11 16    15.0 1    5.0     4.10    26.60    99.00    99.00
 8  5 11 17    15.0 1   13.0     3.60    26.10    99.00    99.00
 8  5 11 18    15.0 1  347.0     4.60    24.10    99.00    99.00
 8  5 11 19    15.0 1  345.0     4.60    20.80    99.00    99.00
 8  5 11 20    15.0 1  322.0     3.10    20.00    99.00    99.00
 8  5 11 21    15.0 1  299.0     3.10    19.60    99.00    99.00
 8  5 11 22    15.0 1  282.0     3.10    19.30    99.00    99.00
 8  5 11 23    15.0 1  274.0     3.10    18.50    99.00    99.00
 8  5 11 24    15.0 1  297.0     3.10    17.30    99.00    99.00
 8  5 12  1    15.0 1  318.0     3.10    16.00    99.00    99.00
 8  5 12  2    15.0 1  313.0     2.60    15.10    99.00    99.00
 8  5 12  3    15.0 1  300.0     2.10    14.60    99.00    99.00
 8  5 12  4    15.0 1  296.0     1.50    14.10    99.00    99.00
 8  5 12  5    15.0 1  298.0     1.50    13.60    99.00    99.00
 8  5 12  6    15.0 1  287.0     1.00    13.40    99.00    99.00
 8  5 12  7    15.0 1  344.0     2.10    14.60    99.00    99.00
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8	5	12	8	15.0	1	339.0	2.10	16.10	99.00	99.00
8	5	12	9	15.0	1	334.0	1.50	17.60	99.00	99.00
8	5	12	10	15.0	1	328.0	1.50	19.10	99.00	99.00
8	5	12	11	15.0	1	328.0	2.10	20.50	99.00	99.00
8	5	12	12	15.0	1	326.0	2.60	21.60	99.00	99.00
8	5	12	13	15.0	1	334.0	3.60	22.50	99.00	99.00
8	5	12	14	15.0	1	329.0	5.10	23.10	99.00	99.00
8	5	12	15	15.0	1	335.0	6.20	23.30	99.00	99.00
8	5	12	16	15.0	1	332.0	6.70	23.00	99.00	99.00
8	5	12	17	15.0	1	332.0	5.10	22.40	99.00	99.00
8	5	12	18	15.0	1	332.0	4.10	21.30	99.00	99.00
8	5	12	19	15.0	1	318.0	4.60	19.60	99.00	99.00
8	5	12	20	15.0	1	321.0	4.10	18.30	99.00	99.00
8	5	12	21	15.0	1	319.0	3.60	17.60	99.00	99.00
8	5	12	22	15.0	1	292.0	1.50	17.00	99.00	99.00
8	5	12	23	15.0	1	237.0	2.10	16.40	99.00	99.00
8	5	12	24	15.0	1	227.0	3.10	15.60	99.00	99.00
8	5	13	1	15.0	1	228.0	3.10	14.90	99.00	99.00
8	5	13	2	15.0	1	245.0	3.10	13.80	99.00	99.00
8	5	13	3	15.0	1	274.0	2.60	12.80	99.00	99.00
8	5	13	4	15.0	1	278.0	2.10	12.00	99.00	99.00
8	5	13	5	15.0	1	271.0	2.10	11.30	99.00	99.00
8	5	13	6	15.0	1	260.0	2.10	11.00	99.00	99.00
8	5	13	7	15.0	1	302.0	1.50	13.10	99.00	99.00
8	5	13	8	15.0	1	254.0	1.50	15.30	99.00	99.00
8	5	13	9	15.0	1	244.0	2.60	18.00	99.00	99.00
8	5	13	10	15.0	1	253.0	2.10	20.00	99.00	99.00
8	5	13	11	15.0	1	258.0	0.50	21.80	99.00	99.00
8	5	13	12	15.0	1	261.0	0.50	23.60	99.00	99.00
8	5	13	13	15.0	1	0.0	0.00	25.10	99.00	99.00
8	5	13	14	15.0	1	320.0	0.50	26.10	99.00	99.00
8	5	13	15	15.0	1	351.0	1.00	26.60	99.00	99.00
8	5	13	16	15.0	1	11.0	2.10	26.90	99.00	99.00
8	5	13	17	15.0	1	34.0	2.60	26.50	99.00	99.00
8	5	13	18	15.0	1	53.0	2.60	25.60	99.00	99.00
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8	5	13	20	15.0	1	85.0	2.10	23.50	99.00	99.00
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8	5	13	23	15.0	1	143.0	0.50	18.60	99.00	99.00
8	5	13	24	15.0	1	124.0	1.00	17.50	99.00	99.00
8	5	14	1	15.0	1	120.0	1.00	16.50	99.00	99.00
8	5	14	2	15.0	1	121.0	1.00	15.80	99.00	99.00
8	5	14	3	15.0	1	255.0	0.50	15.40	99.00	99.00
8	5	14	4	15.0	1	281.0	1.00	14.90	99.00	99.00
8	5	14	5	15.0	1	290.0	1.50	14.50	99.00	99.00
8	5	14	6	15.0	1	282.0	1.00	14.10	99.00	99.00
8	5	14	7	15.0	1	321.0	1.50	16.10	99.00	99.00
8	5	14	8	15.0	1	305.0	0.50	18.10	99.00	99.00
8	5	14	9	15.0	1	0.0	0.00	20.60	99.00	99.00
8	5	14	10	15.0	1	0.0	0.00	23.00	99.00	99.00
8	5	14	11	15.0	1	0.0	0.00	24.90	99.00	99.00
8	5	14	12	15.0	1	0.0	0.00	26.60	99.00	99.00
8	5	14	13	15.0	1	0.0	0.00	28.00	99.00	99.00
8	5	14	14	15.0	1	0.0	0.00	29.10	99.00	99.00
8	5	14	15	15.0	1	0.0	0.00	29.90	99.00	99.00
8	5	14	16	15.0	1	23.0	1.50	30.50	99.00	99.00
8	5	14	17	15.0	1	18.0	2.60	29.90	99.00	99.00
8	5	14	18	15.0	1	19.0	3.10	29.00	99.00	99.00
8	5	14	19	15.0	1	35.0	3.10	27.90	99.00	99.00
8	5	14	20	15.0	1	27.0	2.10	26.50	99.00	99.00
8	5	14	21	15.0	1	3.0	0.50	24.90	99.00	99.00
8	5	14	22	15.0	1	229.0	0.50	23.10	99.00	99.00
8	5	14	23	15.0	1	236.0	0.50	21.90	99.00	99.00
8	5	14	24	15.0	1	12.0	0.50	20.90	99.00	99.00
8	5	15	1	15.0	1	109.0	1.00	20.10	99.00	99.00
8	5	15	2	15.0	1	144.0	1.00	19.40	99.00	99.00
8	5	15	3	15.0	1	176.0	1.00	18.90	99.00	99.00
8	5	15	4	15.0	1	207.0	1.00	18.50	99.00	99.00
8	5	15	5	15.0	1	0.0	0.00	18.10	99.00	99.00
8	5	15	6	15.0	1	8.0	0.50	17.90	99.00	99.00
8	5	15	7	15.0	1	336.0	0.50	19.60	99.00	99.00
8	5	15	8	15.0	1	287.0	0.50	23.10	99.00	99.00
8	5	15	9	15.0	1	290.0	0.50	25.80	99.00	99.00
8	5	15	10	15.0	1	0.0	0.00	27.90	99.00	99.00
8	5	15	11	15.0	1	0.0	0.00	29.50	99.00	99.00
8	5	15	12	15.0	1	0.0	0.00	30.90	99.00	99.00

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 8  5 15 13    15.0 1   309.0     0.50    32.10    99.00    99.00
 8  5 15 14    15.0 1   306.0     0.50    32.90    99.00    99.00
 8  5 15 15    15.0 1   307.0     0.50    33.50    99.00    99.00
 8  5 15 16    15.0 1     0.0     0.00    33.90    99.00    99.00
 8  5 15 17    15.0 1     0.0     0.00    33.80    99.00    99.00
 8  5 15 18    15.0 1    57.0     1.00    33.40    99.00    99.00
 8  5 15 19    15.0 1    57.0     3.60    31.80    99.00    99.00
 8  5 15 20    15.0 1    69.0     4.60    29.80    99.00    99.00
 8  5 15 21    15.0 1    76.0     3.60    28.60    99.00    99.00
 8  5 15 22    15.0 1   255.0     1.00    26.80    99.00    99.00
 8  5 15 23    15.0 1   275.0     1.50    25.10    99.00    99.00
 8  5 15 24    15.0 1   281.0     0.50    24.10    99.00    99.00
 8  5 16  1    15.0 1   175.0     0.50    23.80    99.00    99.00
 8  5 16  2    15.0 1   179.0     1.50    23.60    99.00    99.00
 8  5 16  3    15.0 1   190.0     3.60    23.50    99.00    99.00
 8  5 16  4    15.0 1   181.0     5.10    22.60    99.00    99.00
 8  5 16  5    15.0 1   156.0     5.10    21.30    99.00    99.00
 8  5 16  6    15.0 1   165.0     5.70    21.10    99.00    99.00
 8  5 16  7    15.0 1   161.0     5.70    23.10    99.00    99.00
 8  5 16  8    15.0 1   159.0     5.10    25.80    99.00    99.00
 8  5 16  9    15.0 1   147.0     4.60    28.50    99.00    99.00
 8  5 16 10    15.0 1   140.0     2.60    30.50    99.00    99.00
 8  5 16 11    15.0 1   121.0     1.00    31.80    99.00    99.00
 8  5 16 12    15.0 1     0.0     0.00    32.60    99.00    99.00
 8  5 16 13    15.0 1   344.0     0.50    33.40    99.00    99.00
 8  5 16 14    15.0 1   349.0     1.00    33.80    99.00    99.00
 8  5 16 15    15.0 1     3.0     1.00    34.10    99.00    99.00
 8  5 16 16    15.0 1    35.0     1.50    34.10    99.00    99.00
 8  5 16 17    15.0 1    48.0     2.10    33.30    99.00    99.00
 8  5 16 18    15.0 1    54.0     2.60    32.60    99.00    99.00
 8  5 16 19    15.0 1    60.0     2.60    31.60    99.00    99.00
 8  5 16 20    15.0 1    77.0     2.60    30.00    99.00    99.00
 8  5 16 21    15.0 1   185.0     1.00    28.10    99.00    99.00
 8  5 16 22    15.0 1   264.0     3.60    26.40    99.00    99.00
 8  5 16 23    15.0 1   267.0     3.10    25.30    99.00    99.00
 8  5 16 24    15.0 1   271.0     1.50    24.10    99.00    99.00
 8  5 17  1    15.0 1   276.0     0.50    23.30    99.00    99.00
 8  5 17  2    15.0 1     0.0     0.00    22.50    99.00    99.00
 8  5 17  3    15.0 1   214.0     1.00    21.80    99.00    99.00
 8  5 17  4    15.0 1   242.0     1.50    21.00    99.00    99.00
 8  5 17  5    15.0 1   267.0     2.10    20.40    99.00    99.00
 8  5 17  6    15.0 1   276.0     1.50    20.00    99.00    99.00
 8  5 17  7    15.0 1   313.0     1.00    21.80    99.00    99.00
 8  5 17  8    15.0 1   268.0     0.50    23.80    99.00    99.00
 8  5 17  9    15.0 1     0.0     0.00    26.40    99.00    99.00
 8  5 17 10    15.0 1     0.0     0.00    28.50    99.00    99.00
 8  5 17 11    15.0 1     0.0     0.00    30.30    99.00    99.00
 8  5 17 12    15.0 1     0.0     0.00    32.00    99.00    99.00
 8  5 17 13    15.0 1     0.0     0.00    33.10    99.00    99.00
 8  5 17 14    15.0 1     0.0     0.00    34.00    99.00    99.00
 8  5 17 15    15.0 1    25.0     0.50    34.60    99.00    99.00
 8  5 17 16    15.0 1    25.0     2.10    34.80    99.00    99.00
 8  5 17 17    15.0 1    34.0     2.60    34.00    99.00    99.00
 8  5 17 18    15.0 1    27.0     2.60    33.50    99.00    99.00
 8  5 17 19    15.0 1    11.0     2.10    32.40    99.00    99.00
 8  5 17 20    15.0 1   313.0     1.50    30.60    99.00    99.00
 8  5 17 21    15.0 1   291.0     3.10    29.40    99.00    99.00
 8  5 17 22    15.0 1   276.0     4.10    26.90    99.00    99.00
 8  5 17 23    15.0 1   276.0     4.10    25.00    99.00    99.00
 8  5 17 24    15.0 1   284.0     3.10    24.10    99.00    99.00
 8  5 18  1    15.0 1   279.0     2.60    24.00    99.00    99.00
 8  5 18  2    15.0 1   309.0     2.60    23.60    99.00    99.00
 8  5 18  3    15.0 1   334.0     2.60    22.90    99.00    99.00
 8  5 18  4    15.0 1   341.0     2.60    22.10    99.00    99.00
 8  5 18  5    15.0 1   329.0     2.60    21.60    99.00    99.00
 8  5 18  6    15.0 1   312.0     2.10    21.10    99.00    99.00
 8  5 18  7    15.0 1   343.0     2.10    22.00    99.00    99.00
 8  5 18  8    15.0 1   352.0     0.50    23.50    99.00    99.00
 8  5 18  9    15.0 1     0.0     0.00    25.60    99.00    99.00
 8  5 18 10    15.0 1     0.0     0.00    27.40    99.00    99.00
 8  5 18 11    15.0 1     0.0     0.00    29.00    99.00    99.00
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 8  5 18 13    15.0 1     0.0     0.00    31.60    99.00    99.00
 8  5 18 14    15.0 1   311.0     0.50    32.50    99.00    99.00
 8  5 18 15    15.0 1     0.0     0.00    32.80    99.00    99.00
 8  5 18 16    15.0 1    24.0     2.60    32.60    99.00    99.00
 8  5 18 17    15.0 1     8.0     3.10    31.90    99.00    99.00
```

```
 8  5 18 18    15.0 1   352.0     3.60    30.60    99.00    99.00
 8  5 18 19    15.0 1   325.0     3.60    29.40    99.00    99.00
 8  5 18 20    15.0 1   310.0     4.10    28.30    99.00    99.00
 8  5 18 21    15.0 1   292.0     4.10    27.00    99.00    99.00
 8  5 18 22    15.0 1   285.0     3.60    25.80    99.00    99.00
 8  5 18 23    15.0 1   288.0     3.60    24.90    99.00    99.00
 8  5 18 24    15.0 1   305.0     3.60    24.30    99.00    99.00
 8  5 19  1    15.0 1   324.0     3.10    23.80    99.00    99.00
 8  5 19  2    15.0 1   345.0     3.10    23.10    99.00    99.00
 8  5 19  3    15.0 1   359.0     2.60    22.50    99.00    99.00
 8  5 19  4    15.0 1     7.0     2.10    21.80    99.00    99.00
 8  5 19  5    15.0 1    14.0     1.50    21.30    99.00    99.00
 8  5 19  6    15.0 1   352.0     1.50    20.90    99.00    99.00
 8  5 19  7    15.0 1   347.0     2.10    20.80    99.00    99.00
 8  5 19  8    15.0 1     0.0     0.00    21.50    99.00    99.00
 8  5 19  9    15.0 1     0.0     0.00    23.50    99.00    99.00
 8  5 19 10    15.0 1     0.0     0.00    25.60    99.00    99.00
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 8  5 19 14    15.0 1     0.0     0.00    31.50    99.00    99.00
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 8  5 19 16    15.0 1    19.0     1.50    32.80    99.00    99.00
 8  5 19 17    15.0 1    20.0     2.10    32.50    99.00    99.00
 8  5 19 18    15.0 1    35.0     2.10    32.10    99.00    99.00
 8  5 19 19    15.0 1   354.0     1.50    31.00    99.00    99.00
 8  5 19 20    15.0 1   276.0     5.10    28.60    99.00    99.00
 8  5 19 21    15.0 1   269.0     5.10    23.50    99.00    99.00
 8  5 19 22    15.0 1   269.0     4.60    21.50    99.00    99.00
 8  5 19 23    15.0 1   268.0     3.60    20.30    99.00    99.00
 8  5 19 24    15.0 1   266.0     2.60    19.40    99.00    99.00
 8  5 20  1    15.0 1   300.0     1.50    19.00    99.00    99.00
 8  5 20  2    15.0 1   352.0     1.00    18.50    99.00    99.00
 8  5 20  3    15.0 1   306.0     1.00    17.90    99.00    99.00
 8  5 20  4    15.0 1   266.0     1.50    17.40    99.00    99.00
 8  5 20  5    15.0 1   268.0     2.10    16.80    99.00    99.00
 8  5 20  6    15.0 1   285.0     1.50    16.40    99.00    99.00
 8  5 20  7    15.0 1   290.0     2.60    17.40    99.00    99.00
 8  5 20  8    15.0 1   304.0     1.00    18.90    99.00    99.00
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 8  5 20 10    15.0 1     0.0     0.00    22.50    99.00    99.00
 8  5 20 11    15.0 1     0.0     0.00    24.30    99.00    99.00
 8  5 20 12    15.0 1   324.0     0.50    25.90    99.00    99.00
 8  5 20 13    15.0 1   332.0     1.50    27.50    99.00    99.00
 8  5 20 14    15.0 1   337.0     3.10    28.50    99.00    99.00
 8  5 20 15    15.0 1   355.0     4.10    28.60    99.00    99.00
 8  5 20 16    15.0 1   353.0     5.10    28.40    99.00    99.00
 8  5 20 17    15.0 1   353.0     4.60    27.50    99.00    99.00
 8  5 20 18    15.0 1   346.0     4.60    26.10    99.00    99.00
 8  5 20 19    15.0 1   339.0     4.60    24.10    99.00    99.00
 8  5 20 20    15.0 1   327.0     4.10    22.60    99.00    99.00
 8  5 20 21    15.0 1   321.0     4.60    21.60    99.00    99.00
 8  5 20 22    15.0 1   308.0     5.10    20.10    99.00    99.00
 8  5 20 23    15.0 1   308.0     4.60    18.60    99.00    99.00
 8  5 20 24    15.0 1   323.0     4.10    17.50    99.00    99.00
 8  5 21  1    15.0 1   323.0     3.10    16.50    99.00    99.00
 8  5 21  2    15.0 1   322.0     2.60    15.80    99.00    99.00
 8  5 21  3    15.0 1   312.0     2.10    15.10    99.00    99.00
 8  5 21  4    15.0 1   300.0     2.10    14.50    99.00    99.00
 8  5 21  5    15.0 1   278.0     1.50    13.90    99.00    99.00
 8  5 21  6    15.0 1   277.0     1.50    13.60    99.00    99.00
 8  5 21  7    15.0 1   341.0     5.70    15.50    99.00    99.00
 8  5 21  8    15.0 1   344.0     6.20    17.10    99.00    99.00
 8  5 21  9    15.0 1   326.0     6.20    18.60    99.00    99.00
 8  5 21 10    15.0 1   328.0     6.70    19.80    99.00    99.00
 8  5 21 11    15.0 1   326.0     6.70    21.00    99.00    99.00
 8  5 21 12    15.0 1   335.0     6.70    22.10    99.00    99.00
 8  5 21 13    15.0 1   328.0     7.20    23.40    99.00    99.00
 8  5 21 14    15.0 1   332.0     7.20    24.10    99.00    99.00
 8  5 21 15    15.0 1   328.0     7.20    24.40    99.00    99.00
 8  5 21 16    15.0 1   326.0     6.70    24.10    99.00    99.00
 8  5 21 17    15.0 1   334.0     4.10    23.40    99.00    99.00
 8  5 21 18    15.0 1   326.0     3.10    22.50    99.00    99.00
 8  5 21 19    15.0 1   186.0     0.50    22.30    99.00    99.00
 8  5 21 20    15.0 1   145.0     3.60    21.10    99.00    99.00
 8  5 21 21    15.0 1   121.0     5.10    19.60    99.00    99.00
 8  5 21 22    15.0 1   124.0     3.10    18.90    99.00    99.00
```

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8	5	21	24	15.0	1	0.0	0.00	17.60	99.00	99.00
8	5	22	1	15.0	1	215.0	2.60	16.50	99.00	99.00
8	5	22	2	15.0	1	221.0	3.10	15.10	99.00	99.00
8	5	22	3	15.0	1	222.0	3.10	14.10	99.00	99.00
8	5	22	4	15.0	1	214.0	3.10	13.10	99.00	99.00
8	5	22	5	15.0	1	201.0	3.60	12.50	99.00	99.00
8	5	22	6	15.0	1	179.0	3.10	12.00	99.00	99.00
8	5	22	7	15.0	1	345.0	5.70	14.50	99.00	99.00
8	5	22	8	15.0	1	340.0	7.70	16.50	99.00	99.00
8	5	22	9	15.0	1	338.0	7.20	17.90	99.00	99.00
8	5	22	10	15.0	1	334.0	7.20	18.80	99.00	99.00
8	5	22	11	15.0	1	335.0	7.20	19.80	99.00	99.00
8	5	22	12	15.0	1	322.0	6.70	20.60	99.00	99.00
8	5	22	13	15.0	1	323.0	6.70	21.50	99.00	99.00
8	5	22	14	15.0	1	325.0	6.70	22.10	99.00	99.00
8	5	22	15	15.0	1	316.0	6.70	22.50	99.00	99.00
8	5	22	16	15.0	1	320.0	6.20	22.60	99.00	99.00
8	5	22	17	15.0	1	322.0	3.60	22.10	99.00	99.00
8	5	22	18	15.0	1	319.0	2.10	21.60	99.00	99.00
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8	5	22	20	15.0	1	224.0	1.50	20.90	99.00	99.00
8	5	22	21	15.0	1	224.0	3.10	20.10	99.00	99.00
8	5	22	22	15.0	1	239.0	3.60	18.10	99.00	99.00
8	5	22	23	15.0	1	241.0	3.60	16.50	99.00	99.00
8	5	22	24	15.0	1	214.0	2.60	15.40	99.00	99.00
8	5	23	1	15.0	1	186.0	2.10	14.50	99.00	99.00
8	5	23	2	15.0	1	222.0	2.60	13.80	99.00	99.00
8	5	23	3	15.0	1	241.0	2.60	12.90	99.00	99.00
8	5	23	4	15.0	1	264.0	2.10	12.10	99.00	99.00
8	5	23	5	15.0	1	261.0	1.50	11.50	99.00	99.00
8	5	23	6	15.0	1	267.0	1.50	11.40	99.00	99.00
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8	5	23	8	15.0	1	171.0	1.50	16.00	99.00	99.00
8	5	23	9	15.0	1	168.0	1.50	17.40	99.00	99.00
8	5	23	10	15.0	1	191.0	1.50	18.50	99.00	99.00
8	5	23	11	15.0	1	215.0	1.50	19.60	99.00	99.00
8	5	23	12	15.0	1	244.0	1.50	20.60	99.00	99.00
8	5	23	13	15.0	1	258.0	1.00	21.60	99.00	99.00
8	5	23	14	15.0	1	274.0	1.00	22.40	99.00	99.00
8	5	23	15	15.0	1	294.0	0.50	23.00	99.00	99.00
8	5	23	16	15.0	1	302.0	0.50	23.30	99.00	99.00
8	5	23	17	15.0	1	229.0	3.10	22.80	99.00	99.00
8	5	23	18	15.0	1	239.0	6.20	19.50	99.00	99.00
8	5	23	19	15.0	1	254.0	4.60	18.40	99.00	99.00
8	5	23	20	15.0	1	248.0	5.10	16.10	99.00	99.00
8	5	23	21	15.0	1	240.0	4.60	14.40	99.00	99.00
8	5	23	22	15.0	1	232.0	3.10	13.80	99.00	99.00
8	5	23	23	15.0	1	223.0	2.10	13.50	99.00	99.00
8	5	23	24	15.0	1	236.0	1.00	13.30	99.00	99.00
8	5	24	1	15.0	1	253.0	0.50	12.80	99.00	99.00
8	5	24	2	15.0	1	243.0	0.50	12.60	99.00	99.00
8	5	24	3	15.0	1	223.0	0.50	12.60	99.00	99.00
8	5	24	4	15.0	1	234.0	1.00	12.80	99.00	99.00
8	5	24	5	15.0	1	257.0	0.50	12.80	99.00	99.00
8	5	24	6	15.0	1	0.0	0.00	12.80	99.00	99.00
8	5	24	7	15.0	1	310.0	0.50	12.80	99.00	99.00
8	5	24	8	15.0	1	304.0	1.50	12.80	99.00	99.00
8	5	24	9	15.0	1	288.0	0.50	13.10	99.00	99.00
8	5	24	10	15.0	1	0.0	0.00	14.30	99.00	99.00
8	5	24	11	15.0	1	0.0	0.00	16.10	99.00	99.00
8	5	24	12	15.0	1	0.0	0.00	17.80	99.00	99.00
8	5	24	13	15.0	1	286.0	0.50	19.10	99.00	99.00
8	5	24	14	15.0	1	287.0	1.50	19.30	99.00	99.00
8	5	24	15	15.0	1	291.0	1.50	19.60	99.00	99.00
8	5	24	16	15.0	1	276.0	1.00	20.90	99.00	99.00
8	5	24	17	15.0	1	279.0	1.50	21.10	99.00	99.00
8	5	24	18	15.0	1	263.0	2.10	20.60	99.00	99.00
8	5	24	19	15.0	1	270.0	4.60	19.00	99.00	99.00
8	5	24	20	15.0	1	274.0	4.10	16.40	99.00	99.00
8	5	24	21	15.0	1	268.0	4.60	14.60	99.00	99.00
8	5	24	22	15.0	1	273.0	5.10	13.50	99.00	99.00
8	5	24	23	15.0	1	272.0	3.60	12.80	99.00	99.00
8	5	24	24	15.0	1	285.0	2.60	12.40	99.00	99.00
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8	5	25	2	15.0	1	299.0	3.10	11.60	99.00	99.00
8	5	25	3	15.0	1	298.0	2.60	11.40	99.00	99.00

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 8  5 25  4    15.0 1   296.0     2.10    11.30    99.00    99.00
 8  5 25  5    15.0 1   309.0     2.10    11.10    99.00    99.00
 8  5 25  6    15.0 1   318.0     1.50    11.00    99.00    99.00
 8  5 25  7    15.0 1   320.0     1.50    11.00    99.00    99.00
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 8  5 25 10    15.0 1     0.0     0.00    12.10    99.00    99.00
 8  5 25 11    15.0 1     0.0     0.00    13.30    99.00    99.00
 8  5 25 12    15.0 1     0.0     0.00    16.10    99.00    99.00
 8  5 25 13    15.0 1     0.0     0.00    17.90    99.00    99.00
 8  5 25 14    15.0 1     0.0     0.00    19.10    99.00    99.00
 8  5 25 15    15.0 1     0.0     0.00    19.90    99.00    99.00
 8  5 25 16    15.0 1    27.0     1.50    20.10    99.00    99.00
 8  5 25 17    15.0 1    44.0     2.60    20.30    99.00    99.00
 8  5 25 18    15.0 1   317.0     1.00    20.00    99.00    99.00
 8  5 25 19    15.0 1   262.0     4.10    18.50    99.00    99.00
 8  5 25 20    15.0 1   270.0     4.10    16.60    99.00    99.00
 8  5 25 21    15.0 1   258.0     5.10    14.40    99.00    99.00
 8  5 25 22    15.0 1   259.0     4.10    13.00    99.00    99.00
 8  5 25 23    15.0 1   247.0     2.60    12.30    99.00    99.00
 8  5 25 24    15.0 1   218.0     1.50    12.10    99.00    99.00
 8  5 26  1    15.0 1   208.0     1.00    12.10    99.00    99.00
 8  5 26  2    15.0 1   213.0     0.50    11.90    99.00    99.00
 8  5 26  3    15.0 1   234.0     1.50    11.60    99.00    99.00
 8  5 26  4    15.0 1   261.0     2.60    11.40    99.00    99.00
 8  5 26  5    15.0 1   278.0     2.60    11.10    99.00    99.00
 8  5 26  6    15.0 1   293.0     1.50    11.10    99.00    99.00
 8  5 26  7    15.0 1   322.0     1.00    11.50    99.00    99.00
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 8  5 26 10    15.0 1     0.0     0.00    15.60    99.00    99.00
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 8  5 26 14    15.0 1     0.0     0.00    20.90    99.00    99.00
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 8  5 26 16    15.0 1     6.0     1.50    21.90    99.00    99.00
 8  5 26 17    15.0 1    18.0     2.60    22.00    99.00    99.00
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 8  5 26 19    15.0 1    35.0     3.10    20.60    99.00    99.00
 8  5 26 20    15.0 1   291.0     2.10    19.50    99.00    99.00
 8  5 26 21    15.0 1   265.0     5.10    16.50    99.00    99.00
 8  5 26 22    15.0 1   266.0     4.60    14.10    99.00    99.00
 8  5 26 23    15.0 1   266.0     4.10    13.00    99.00    99.00
 8  5 26 24    15.0 1   270.0     3.60    12.10    99.00    99.00
 8  5 27  1    15.0 1   290.0     3.60    11.50    99.00    99.00
 8  5 27  2    15.0 1   304.0     2.60    11.10    99.00    99.00
 8  5 27  3    15.0 1   338.0     1.50    11.10    99.00    99.00
 8  5 27  4    15.0 1   358.0     0.50    10.90    99.00    99.00
 8  5 27  5    15.0 1    24.0     0.50    10.60    99.00    99.00
 8  5 27  6    15.0 1     0.0     0.00    10.50    99.00    99.00
 8  5 27  7    15.0 1   354.0     1.00    12.10    99.00    99.00
 8  5 27  8    15.0 1     0.0     0.00    13.60    99.00    99.00
 8  5 27  9    15.0 1     0.0     0.00    15.10    99.00    99.00
 8  5 27 10    15.0 1     0.0     0.00    16.60    99.00    99.00
 8  5 27 11    15.0 1     0.0     0.00    18.10    99.00    99.00
 8  5 27 12    15.0 1     0.0     0.00    19.60    99.00    99.00
 8  5 27 13    15.0 1     0.0     0.00    20.90    99.00    99.00
 8  5 27 14    15.0 1   323.0     0.50    22.00    99.00    99.00
 8  5 27 15    15.0 1   338.0     0.50    22.60    99.00    99.00
 8  5 27 16    15.0 1   348.0     1.00    23.00    99.00    99.00
 8  5 27 17    15.0 1   328.0     2.60    23.10    99.00    99.00
 8  5 27 18    15.0 1   291.0     4.10    21.80    99.00    99.00
 8  5 27 19    15.0 1   282.0     5.10    18.10    99.00    99.00
 8  5 27 20    15.0 1   274.0     5.10    15.50    99.00    99.00
 8  5 27 21    15.0 1   269.0     5.10    13.90    99.00    99.00
 8  5 27 22    15.0 1   273.0     4.10    12.80    99.00    99.00
 8  5 27 23    15.0 1   262.0     2.60    12.10    99.00    99.00
 8  5 27 24    15.0 1   236.0     0.50    11.60    99.00    99.00
 8  5 28  1    15.0 1   116.0     1.00    11.30    99.00    99.00
 8  5 28  2    15.0 1     0.0     0.00    10.80    99.00    99.00
 8  5 28  3    15.0 1   270.0     0.50    10.10    99.00    99.00
 8  5 28  4    15.0 1   276.0     1.50     9.60    99.00    99.00
 8  5 28  5    15.0 1   294.0     1.50     9.10    99.00    99.00
 8  5 28  6    15.0 1   290.0     1.50     9.30    99.00    99.00
 8  5 28  7    15.0 1   295.0     1.00    11.10    99.00    99.00
 8  5 28  8    15.0 1     0.0     0.00    12.80    99.00    99.00
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 8  5 28  9    15.0 1     0.0     0.00    14.30    99.00    99.00
 8  5 28 10    15.0 1     0.0     0.00    16.10    99.00    99.00
 8  5 28 11    15.0 1     0.0     0.00    17.90    99.00    99.00
 8  5 28 12    15.0 1     0.0     0.00    19.40    99.00    99.00
 8  5 28 13    15.0 1     0.0     0.00    20.80    99.00    99.00
 8  5 28 14    15.0 1   344.0     1.00    21.80    99.00    99.00
 8  5 28 15    15.0 1   354.0     1.50    22.40    99.00    99.00
 8  5 28 16    15.0 1   352.0     1.50    22.80    99.00    99.00
 8  5 28 17    15.0 1   353.0     1.50    22.90    99.00    99.00
 8  5 28 18    15.0 1   331.0     1.50    22.60    99.00    99.00
 8  5 28 19    15.0 1   288.0     4.10    21.10    99.00    99.00
 8  5 28 20    15.0 1   266.0     5.10    17.60    99.00    99.00
 8  5 28 21    15.0 1   266.0     6.20    15.40    99.00    99.00
 8  5 28 22    15.0 1   269.0     5.10    14.10    99.00    99.00
 8  5 28 23    15.0 1   275.0     4.60    13.10    99.00    99.00
 8  5 28 24    15.0 1   267.0     3.10    12.40    99.00    99.00
 8  5 29  1    15.0 1   256.0     1.50    12.10    99.00    99.00
 8  5 29  2    15.0 1    98.0     0.50    11.80    99.00    99.00
 8  5 29  3    15.0 1    70.0     0.50    11.60    99.00    99.00
 8  5 29  4    15.0 1   349.0     0.50    11.80    99.00    99.00
 8  5 29  5    15.0 1   311.0     0.50    12.00    99.00    99.00
 8  5 29  6    15.0 1   313.0     0.50    12.10    99.00    99.00
 8  5 29  7    15.0 1     0.0     0.00    12.40    99.00    99.00
 8  5 29  8    15.0 1     1.0     1.00    12.80    99.00    99.00
 8  5 29  9    15.0 1     0.0     0.00    13.40    99.00    99.00
 8  5 29 10    15.0 1     0.0     0.00    14.60    99.00    99.00
 8  5 29 11    15.0 1     0.0     0.00    16.60    99.00    99.00
 8  5 29 12    15.0 1     0.0     0.00    18.30    99.00    99.00
 8  5 29 13    15.0 1     0.0     0.00    19.80    99.00    99.00
 8  5 29 14    15.0 1     0.0     0.00    21.10    99.00    99.00
 8  5 29 15    15.0 1   336.0     1.00    21.90    99.00    99.00
 8  5 29 16    15.0 1   347.0     2.10    22.60    99.00    99.00
 8  5 29 17    15.0 1   346.0     2.60    22.60    99.00    99.00
 8  5 29 18    15.0 1   356.0     2.10    22.40    99.00    99.00
 8  5 29 19    15.0 1    15.0     2.60    21.90    99.00    99.00
 8  5 29 20    15.0 1    12.0     2.10    20.90    99.00    99.00
 8  5 29 21    15.0 1   322.0     1.00    20.10    99.00    99.00
 8  5 29 22    15.0 1   290.0     3.10    18.60    99.00    99.00
 8  5 29 23    15.0 1   278.0     4.10    16.80    99.00    99.00
 8  5 29 24    15.0 1   293.0     4.10    16.30    99.00    99.00
 8  5 30  1    15.0 1   303.0     4.10    15.80    99.00    99.00
 8  5 30  2    15.0 1   322.0     3.60    14.60    99.00    99.00
 8  5 30  3    15.0 1   332.0     3.10    14.10    99.00    99.00
 8  5 30  4    15.0 1   341.0     2.60    13.80    99.00    99.00
 8  5 30  5    15.0 1   344.0     2.10    13.60    99.00    99.00
 8  5 30  6    15.0 1   337.0     1.50    13.40    99.00    99.00
 8  5 30  7    15.0 1   336.0     1.50    14.10    99.00    99.00
 8  5 30  8    15.0 1   339.0     0.50    15.50    99.00    99.00
 8  5 30  9    15.0 1     0.0     0.00    17.10    99.00    99.00
 8  5 30 10    15.0 1     0.0     0.00    18.80    99.00    99.00
 8  5 30 11    15.0 1     0.0     0.00    20.10    99.00    99.00
 8  5 30 12    15.0 1     0.0     0.00    21.60    99.00    99.00
 8  5 30 13    15.0 1     0.0     0.00    22.90    99.00    99.00
 8  5 30 14    15.0 1     0.0     0.00    23.90    99.00    99.00
 8  5 30 15    15.0 1   315.0     0.50    24.50    99.00    99.00
 8  5 30 16    15.0 1   343.0     1.00    24.90    99.00    99.00
 8  5 30 17    15.0 1     2.0     2.10    24.90    99.00    99.00
 8  5 30 18    15.0 1    14.0     2.10    24.50    99.00    99.00
 8  5 30 19    15.0 1    14.0     2.60    23.90    99.00    99.00
 8  5 30 20    15.0 1   304.0     3.10    22.60    99.00    99.00
 8  5 30 21    15.0 1   271.0     6.20    18.10    99.00    99.00
 8  5 30 22    15.0 1   275.0     5.70    16.10    99.00    99.00
 8  5 30 23    15.0 1   257.0     4.60    15.30    99.00    99.00
 8  5 30 24    15.0 1   267.0     3.60    14.50    99.00    99.00
 8  5 31  1    15.0 1   274.0     1.50    13.90    99.00    99.00
 8  5 31  2    15.0 1     0.0     0.00    13.60    99.00    99.00
 8  5 31  3    15.0 1     0.0     0.00    13.10    99.00    99.00
 8  5 31  4    15.0 1   287.0     1.00    12.80    99.00    99.00
 8  5 31  5    15.0 1   295.0     1.50    12.40    99.00    99.00
 8  5 31  6    15.0 1   303.0     2.10    12.60    99.00    99.00
 8  5 31  7    15.0 1   302.0     1.50    13.40    99.00    99.00
 8  5 31  8    15.0 1   343.0     0.50    13.90    99.00    99.00
 8  5 31  9    15.0 1   112.0     0.50    14.50    99.00    99.00
 8  5 31 10    15.0 1     0.0     0.00    16.40    99.00    99.00
 8  5 31 11    15.0 1     0.0     0.00    18.80    99.00    99.00
 8  5 31 12    15.0 1     0.0     0.00    20.90    99.00    99.00
 8  5 31 13    15.0 1     0.0     0.00    22.60    99.00    99.00
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```
 8  5 31 14    15.0 1     0.0     0.00    23.80    99.00    99.00
 8  5 31 15    15.0 1   355.0     1.00    24.60    99.00    99.00
 8  5 31 16    15.0 1     0.0     0.00    25.10    99.00    99.00
 8  5 31 17    15.0 1     8.0     3.10    25.10    99.00    99.00
 8  5 31 18    15.0 1    11.0     2.60    24.50    99.00    99.00
 8  5 31 19    15.0 1     8.0     3.60    23.60    99.00    99.00
 8  5 31 20    15.0 1   337.0     3.60    22.40    99.00    99.00
 8  5 31 21    15.0 1   290.0     4.10    20.10    99.00    99.00
 8  5 31 22    15.0 1   256.0     4.10    18.40    99.00    99.00
 8  5 31 23    15.0 1   284.0     3.60    17.40    99.00    99.00
 8  5 31 24    15.0 1   314.0     3.60    16.60    99.00    99.00
 8  6  1  1    15.0 1   331.0     3.10    15.90    99.00    99.00
 8  6  1  2    15.0 1   338.0     3.10    15.10    99.00    99.00
 8  6  1  3    15.0 1   350.0     2.60    14.60    99.00    99.00
 8  6  1  4    15.0 1   352.0     2.10    14.10    99.00    99.00
 8  6  1  5    15.0 1     5.0     1.50    13.60    99.00    99.00
 8  6  1  6    15.0 1   360.0     1.00    13.50    99.00    99.00
 8  6  1  7    15.0 1   353.0     2.10    14.60    99.00    99.00
 8  6  1  8    15.0 1   332.0     1.00    15.90    99.00    99.00
 8  6  1  9    15.0 1     0.0     0.00    17.40    99.00    99.00
 8  6  1 10    15.0 1     0.0     0.00    19.10    99.00    99.00
 8  6  1 11    15.0 1     0.0     0.00    20.60    99.00    99.00
 8  6  1 12    15.0 1   290.0     0.50    22.10    99.00    99.00
 8  6  1 13    15.0 1   318.0     1.00    23.40    99.00    99.00
 8  6  1 14    15.0 1   341.0     1.50    24.30    99.00    99.00
 8  6  1 15    15.0 1   346.0     3.10    24.80    99.00    99.00
 8  6  1 16    15.0 1     2.0     4.10    24.90    99.00    99.00
 8  6  1 17    15.0 1   357.0     4.10    24.60    99.00    99.00
 8  6  1 18    15.0 1     4.0     3.10    24.00    99.00    99.00
 8  6  1 19    15.0 1   353.0     4.10    22.60    99.00    99.00
 8  6  1 20    15.0 1   344.0     4.10    20.90    99.00    99.00
 8  6  1 21    15.0 1   335.0     3.60    19.80    99.00    99.00
 8  6  1 22    15.0 1   321.0     3.10    19.10    99.00    99.00
 8  6  1 23    15.0 1   305.0     3.60    18.00    99.00    99.00
 8  6  1 24    15.0 1   314.0     3.60    16.40    99.00    99.00
 8  6  2  1    15.0 1   338.0     3.10    15.30    99.00    99.00
 8  6  2  2    15.0 1   347.0     2.60    14.60    99.00    99.00
 8  6  2  3    15.0 1   353.0     2.10    14.10    99.00    99.00
 8  6  2  4    15.0 1   352.0     1.00    13.60    99.00    99.00
 8  6  2  5    15.0 1   355.0     0.50    13.10    99.00    99.00
 8  6  2  6    15.0 1     0.0     0.00    13.00    99.00    99.00
 8  6  2  7    15.0 1   353.0     0.50    14.50    99.00    99.00
 8  6  2  8    15.0 1     0.0     0.00    16.00    99.00    99.00
 8  6  2  9    15.0 1     0.0     0.00    17.60    99.00    99.00
 8  6  2 10    15.0 1     0.0     0.00    19.40    99.00    99.00
 8  6  2 11    15.0 1     0.0     0.00    20.90    99.00    99.00
 8  6  2 12    15.0 1     0.0     0.00    22.30    99.00    99.00
 8  6  2 13    15.0 1   328.0     0.50    23.50    99.00    99.00
 8  6  2 14    15.0 1   355.0     1.50    24.40    99.00    99.00
 8  6  2 15    15.0 1   355.0     2.60    25.00    99.00    99.00
 8  6  2 16    15.0 1     5.0     3.60    25.10    99.00    99.00
 8  6  2 17    15.0 1     0.0     0.00    24.90    99.00    99.00
 8  6  2 18    15.0 1     0.0     0.00    24.10    99.00    99.00
 8  6  2 19    15.0 1   348.0     3.60    22.90    99.00    99.00
 8  6  2 20    15.0 1   339.0     4.10    21.40    99.00    99.00
 8  6  2 21    15.0 1   316.0     3.60    20.60    99.00    99.00
 8  6  2 22    15.0 1   285.0     3.60    19.30    99.00    99.00
 8  6  2 23    15.0 1   278.0     3.60    17.30    99.00    99.00
 8  6  2 24    15.0 1   307.0     3.60    16.10    99.00    99.00
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 8  6  3  2    15.0 1   339.0     2.10    14.90    99.00    99.00
 8  6  3  3    15.0 1     0.0     0.00    14.50    99.00    99.00
 8  6  3  4    15.0 1    17.0     0.50    14.10    99.00    99.00
 8  6  3  5    15.0 1    30.0     0.50    13.80    99.00    99.00
 8  6  3  6    15.0 1    39.0     0.50    13.60    99.00    99.00
 8  6  3  7    15.0 1     6.0     1.50    15.00    99.00    99.00
 8  6  3  8    15.0 1   340.0     0.50    16.30    99.00    99.00
 8  6  3  9    15.0 1     0.0     0.00    17.80    99.00    99.00
 8  6  3 10    15.0 1     0.0     0.00    19.60    99.00    99.00
 8  6  3 11    15.0 1   319.0     1.00    21.10    99.00    99.00
 8  6  3 12    15.0 1   319.0     1.00    22.60    99.00    99.00
 8  6  3 13    15.0 1   330.0     2.10    23.90    99.00    99.00
 8  6  3 14    15.0 1   345.0     3.10    24.90    99.00    99.00
 8  6  3 15    15.0 1   352.0     4.10    25.40    99.00    99.00
 8  6  3 16    15.0 1   349.0     5.10    26.00    99.00    99.00
 8  6  3 17    15.0 1   342.0     4.60    25.60    99.00    99.00
 8  6  3 18    15.0 1   343.0     3.60    24.80    99.00    99.00
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```
 8  6  3 19    15.0 1   337.0     4.10    23.10    99.00    99.00
 8  6  3 20    15.0 1   340.0     4.60    21.50    99.00    99.00
 8  6  3 21    15.0 1   339.0     4.10    20.10    99.00    99.00
 8  6  3 22    15.0 1   335.0     4.10    19.30    99.00    99.00
 8  6  3 23    15.0 1   332.0     3.60    18.50    99.00    99.00
 8  6  3 24    15.0 1   325.0     4.10    17.60    99.00    99.00
 8  6  4  1    15.0 1   319.0     4.10    16.60    99.00    99.00
 8  6  4  2    15.0 1   319.0     3.10    15.80    99.00    99.00
 8  6  4  3    15.0 1   318.0     2.60    15.30    99.00    99.00
 8  6  4  4    15.0 1   307.0     2.10    15.00    99.00    99.00
 8  6  4  5    15.0 1   314.0     1.50    14.60    99.00    99.00
 8  6  4  6    15.0 1   328.0     3.10    14.60    99.00    99.00
 8  6  4  7    15.0 1   345.0     4.60    15.40    99.00    99.00
 8  6  4  8    15.0 1   342.0     4.10    16.40    99.00    99.00
 8  6  4  9    15.0 1   338.0     3.60    17.60    99.00    99.00
 8  6  4 10    15.0 1   334.0     4.10    19.00    99.00    99.00
 8  6  4 11    15.0 1   344.0     5.10    20.10    99.00    99.00
 8  6  4 12    15.0 1   327.0     5.70    21.10    99.00    99.00
 8  6  4 13    15.0 1   345.0     6.20    21.90    99.00    99.00
 8  6  4 14    15.0 1   345.0     7.20    22.60    99.00    99.00
 8  6  4 15    15.0 1   334.0     7.70    23.00    99.00    99.00
 8  6  4 16    15.0 1   335.0     7.20    23.10    99.00    99.00
 8  6  4 17    15.0 1   331.0     5.10    22.60    99.00    99.00
 8  6  4 18    15.0 1   325.0     3.60    21.80    99.00    99.00
 8  6  4 19    15.0 1   319.0     2.60    21.30    99.00    99.00
 8  6  4 20    15.0 1   279.0     0.50    20.40    99.00    99.00
 8  6  4 21    15.0 1   119.0     1.00    19.50    99.00    99.00
 8  6  4 22    15.0 1    59.0     0.50    19.10    99.00    99.00
 8  6  4 23    15.0 1   283.0     0.50    18.60    99.00    99.00
 8  6  4 24    15.0 1   240.0     3.60    17.30    99.00    99.00
 8  6  5  1    15.0 1   275.0     4.10    15.50    99.00    99.00
 8  6  5  2    15.0 1   289.0     3.60    14.10    99.00    99.00
 8  6  5  3    15.0 1   299.0     2.10    13.50    99.00    99.00
 8  6  5  4    15.0 1   290.0     1.00    13.10    99.00    99.00
 8  6  5  5    15.0 1   290.0     1.50    12.60    99.00    99.00
 8  6  5  6    15.0 1   295.0     1.50    12.60    99.00    99.00
 8  6  5  7    15.0 1   346.0     4.10    15.40    99.00    99.00
 8  6  5  8    15.0 1   355.0     3.60    17.40    99.00    99.00
 8  6  5  9    15.0 1   353.0     2.10    18.80    99.00    99.00
 8  6  5 10    15.0 1   347.0     1.00    20.10    99.00    99.00
 8  6  5 11    15.0 1   307.0     0.50    21.40    99.00    99.00
 8  6  5 12    15.0 1   308.0     0.50    22.60    99.00    99.00
 8  6  5 13    15.0 1   331.0     1.00    23.90    99.00    99.00
 8  6  5 14    15.0 1   336.0     2.10    24.60    99.00    99.00
 8  6  5 15    15.0 1   336.0     3.60    25.30    99.00    99.00
 8  6  5 16    15.0 1   348.0     4.60    25.50    99.00    99.00
 8  6  5 17    15.0 1   340.0     4.10    25.10    99.00    99.00
 8  6  5 18    15.0 1   336.0     3.10    24.50    99.00    99.00
 8  6  5 19    15.0 1   333.0     3.60    23.80    99.00    99.00
 8  6  5 20    15.0 1   308.0     3.60    22.60    99.00    99.00
 8  6  5 21    15.0 1   305.0     3.10    21.40    99.00    99.00
 8  6  5 22    15.0 1   304.0     2.10    20.40    99.00    99.00
 8  6  5 23    15.0 1   300.0     1.00    19.40    99.00    99.00
 8  6  5 24    15.0 1   319.0     1.00    18.30    99.00    99.00
 8  6  6  1    15.0 1   349.0     1.50    17.40    99.00    99.00
 8  6  6  2    15.0 1     0.0     0.00    16.80    99.00    99.00
 8  6  6  3    15.0 1     9.0     1.00    16.10    99.00    99.00
 8  6  6  4    15.0 1     0.0     0.00    15.60    99.00    99.00
 8  6  6  5    15.0 1     0.0     0.00    15.00    99.00    99.00
 8  6  6  6    15.0 1     0.0     0.00    14.90    99.00    99.00
 8  6  6  7    15.0 1   349.0     2.10    16.40    99.00    99.00
 8  6  6  8    15.0 1   338.0     1.00    17.80    99.00    99.00
 8  6  6  9    15.0 1   333.0     0.50    19.30    99.00    99.00
 8  6  6 10    15.0 1   324.0     1.00    20.90    99.00    99.00
 8  6  6 11    15.0 1   317.0     1.50    22.10    99.00    99.00
 8  6  6 12    15.0 1   325.0     2.60    23.40    99.00    99.00
 8  6  6 13    15.0 1   326.0     3.10    24.40    99.00    99.00
 8  6  6 14    15.0 1   326.0     4.10    25.00    99.00    99.00
 8  6  6 15    15.0 1   333.0     5.10    25.10    99.00    99.00
 8  6  6 16    15.0 1   343.0     5.70    24.80    99.00    99.00
 8  6  6 17    15.0 1   342.0     5.10    24.10    99.00    99.00
 8  6  6 18    15.0 1   329.0     3.60    23.10    99.00    99.00
 8  6  6 19    15.0 1   333.0     4.10    21.50    99.00    99.00
 8  6  6 20    15.0 1   326.0     4.10    19.60    99.00    99.00
 8  6  6 21    15.0 1   332.0     4.10    18.10    99.00    99.00
 8  6  6 22    15.0 1   318.0     3.60    17.30    99.00    99.00
 8  6  6 23    15.0 1   321.0     3.60    16.50    99.00    99.00
```

8	6	6	24	15.0	1	325.0	3.60	15.60	99.00	99.00
8	6	7	1	15.0	1	320.0	2.60	14.90	99.00	99.00
8	6	7	2	15.0	1	315.0	1.50	14.30	99.00	99.00
8	6	7	3	15.0	1	283.0	1.00	13.90	99.00	99.00
8	6	7	4	15.0	1	236.0	0.50	13.40	99.00	99.00
8	6	7	5	15.0	1	238.0	0.50	13.10	99.00	99.00
8	6	7	6	15.0	1	246.0	0.50	13.00	99.00	99.00
8	6	7	7	15.0	1	337.0	1.00	14.60	99.00	99.00
8	6	7	8	15.0	1	0.0	0.00	16.00	99.00	99.00
8	6	7	9	15.0	1	0.0	0.00	17.60	99.00	99.00
8	6	7	10	15.0	1	294.0	0.50	19.40	99.00	99.00
8	6	7	11	15.0	1	310.0	0.50	21.10	99.00	99.00
8	6	7	12	15.0	1	306.0	1.00	22.60	99.00	99.00
8	6	7	13	15.0	1	333.0	1.50	23.80	99.00	99.00
8	6	7	14	15.0	1	338.0	2.10	24.60	99.00	99.00
8	6	7	15	15.0	1	353.0	3.10	25.30	99.00	99.00
8	6	7	16	15.0	1	349.0	3.60	25.60	99.00	99.00
8	6	7	17	15.0	1	354.0	3.60	25.50	99.00	99.00
8	6	7	18	15.0	1	354.0	2.10	25.10	99.00	99.00
8	6	7	19	15.0	1	333.0	1.00	24.80	99.00	99.00
8	6	7	20	15.0	1	278.0	0.50	23.60	99.00	99.00
8	6	7	21	15.0	1	229.0	0.50	22.40	99.00	99.00
8	6	7	22	15.0	1	210.0	1.00	21.00	99.00	99.00
8	6	7	23	15.0	1	199.0	1.50	19.80	99.00	99.00
8	6	7	24	15.0	1	167.0	1.00	18.60	99.00	99.00
8	6	8	1	15.0	1	190.0	1.00	17.90	99.00	99.00
8	6	8	2	15.0	1	230.0	1.50	17.00	99.00	99.00
8	6	8	3	15.0	1	246.0	2.60	16.10	99.00	99.00
8	6	8	4	15.0	1	267.0	3.10	15.00	99.00	99.00
8	6	8	5	15.0	1	270.0	3.10	14.10	99.00	99.00
8	6	8	6	15.0	1	267.0	2.60	14.10	99.00	99.00
8	6	8	7	15.0	1	305.0	2.60	16.30	99.00	99.00
8	6	8	8	15.0	1	271.0	1.00	18.30	99.00	99.00
8	6	8	9	15.0	1	256.0	1.50	20.90	99.00	99.00
8	6	8	10	15.0	1	274.0	1.00	22.80	99.00	99.00
8	6	8	11	15.0	1	289.0	0.50	24.80	99.00	99.00
8	6	8	12	15.0	1	321.0	0.50	26.50	99.00	99.00
8	6	8	13	15.0	1	355.0	1.00	27.90	99.00	99.00
8	6	8	14	15.0	1	4.0	1.50	28.80	99.00	99.00
8	6	8	15	15.0	1	360.0	2.60	29.30	99.00	99.00
8	6	8	16	15.0	1	11.0	3.60	29.60	99.00	99.00
8	6	8	17	15.0	1	9.0	3.60	28.90	99.00	99.00
8	6	8	18	15.0	1	13.0	3.10	28.10	99.00	99.00
8	6	8	19	15.0	1	349.0	3.10	27.30	99.00	99.00
8	6	8	20	15.0	1	334.0	3.10	26.00	99.00	99.00
8	6	8	21	15.0	1	306.0	3.10	24.60	99.00	99.00
8	6	8	22	15.0	1	298.0	2.60	23.30	99.00	99.00
8	6	8	23	15.0	1	284.0	2.60	22.00	99.00	99.00
8	6	8	24	15.0	1	297.0	2.60	21.10	99.00	99.00
8	6	9	1	15.0	1	316.0	2.10	20.10	99.00	99.00
8	6	9	2	15.0	1	330.0	2.60	19.40	99.00	99.00
8	6	9	3	15.0	1	310.0	2.10	18.50	99.00	99.00
8	6	9	4	15.0	1	277.0	1.50	17.60	99.00	99.00
8	6	9	5	15.0	1	280.0	2.10	17.10	99.00	99.00
8	6	9	6	15.0	1	291.0	2.10	16.90	99.00	99.00
8	6	9	7	15.0	1	320.0	2.10	18.40	99.00	99.00
8	6	9	8	15.0	1	0.0	0.00	20.40	99.00	99.00
8	6	9	9	15.0	1	0.0	0.00	23.00	99.00	99.00
8	6	9	10	15.0	1	0.0	0.00	25.00	99.00	99.00
8	6	9	11	15.0	1	0.0	0.00	26.90	99.00	99.00
8	6	9	12	15.0	1	0.0	0.00	28.60	99.00	99.00
8	6	9	13	15.0	1	0.0	0.00	30.10	99.00	99.00
8	6	9	14	15.0	1	347.0	0.50	31.10	99.00	99.00
8	6	9	15	15.0	1	1.0	1.50	31.80	99.00	99.00
8	6	9	16	15.0	1	9.0	2.60	32.00	99.00	99.00
8	6	9	17	15.0	1	11.0	2.60	31.40	99.00	99.00
8	6	9	18	15.0	1	9.0	2.10	30.80	99.00	99.00
8	6	9	19	15.0	1	346.0	2.10	29.80	99.00	99.00
8	6	9	20	15.0	1	315.0	1.50	28.30	99.00	99.00
8	6	9	21	15.0	1	297.0	2.10	26.80	99.00	99.00
8	6	9	22	15.0	1	300.0	2.10	25.60	99.00	99.00
8	6	9	23	15.0	1	302.0	2.60	24.40	99.00	99.00
8	6	9	24	15.0	1	310.0	2.10	23.10	99.00	99.00
8	6	10	1	15.0	1	334.0	2.60	22.00	99.00	99.00
8	6	10	2	15.0	1	342.0	3.60	20.90	99.00	99.00
8	6	10	3	15.0	1	341.0	3.10	19.60	99.00	99.00
8	6	10	4	15.0	1	336.0	2.60	18.90	99.00	99.00

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 8  6 10  5    15.0 1   327.0     2.10    18.40    99.00    99.00
 8  6 10  6    15.0 1   331.0     1.00    18.30    99.00    99.00
 8  6 10  7    15.0 1   336.0     2.60    20.10    99.00    99.00
 8  6 10  8    15.0 1   341.0     1.00    22.10    99.00    99.00
 8  6 10  9    15.0 1   306.0     0.50    23.90    99.00    99.00
 8  6 10 10    15.0 1   308.0     1.00    25.50    99.00    99.00
 8  6 10 11    15.0 1   316.0     2.10    27.00    99.00    99.00
 8  6 10 12    15.0 1   333.0     3.10    27.90    99.00    99.00
 8  6 10 13    15.0 1   329.0     4.10    28.50    99.00    99.00
 8  6 10 14    15.0 1   332.0     5.10    28.80    99.00    99.00
 8  6 10 15    15.0 1   338.0     5.70    28.80    99.00    99.00
 8  6 10 16    15.0 1   340.0     6.20    28.30    99.00    99.00
 8  6 10 17    15.0 1   332.0     4.60    27.40    99.00    99.00
 8  6 10 18    15.0 1   332.0     3.60    25.90    99.00    99.00
 8  6 10 19    15.0 1   331.0     4.10    24.10    99.00    99.00
 8  6 10 20    15.0 1   319.0     4.10    22.30    99.00    99.00
 8  6 10 21    15.0 1   318.0     3.60    21.10    99.00    99.00
 8  6 10 22    15.0 1   310.0     2.60    20.10    99.00    99.00
 8  6 10 23    15.0 1   315.0     1.00    19.50    99.00    99.00
 8  6 10 24    15.0 1   230.0     0.50    18.90    99.00    99.00
 8  6 11  1    15.0 1   272.0     0.50    18.60    99.00    99.00
 8  6 11  2    15.0 1   268.0     1.00    18.10    99.00    99.00
 8  6 11  3    15.0 1   248.0     1.50    17.40    99.00    99.00
 8  6 11  4    15.0 1   246.0     2.60    16.80    99.00    99.00
 8  6 11  5    15.0 1   262.0     3.10    16.10    99.00    99.00
 8  6 11  6    15.0 1   274.0     3.10    15.50    99.00    99.00
 8  6 11  7    15.0 1   318.0     2.60    16.90    99.00    99.00
 8  6 11  8    15.0 1   330.0     1.00    19.00    99.00    99.00
 8  6 11  9    15.0 1   330.0     0.50    20.90    99.00    99.00
 8  6 11 10    15.0 1   324.0     0.50    22.80    99.00    99.00
 8  6 11 11    15.0 1   331.0     1.00    24.50    99.00    99.00
 8  6 11 12    15.0 1   330.0     1.50    26.00    99.00    99.00
 8  6 11 13    15.0 1   343.0     2.60    26.90    99.00    99.00
 8  6 11 14    15.0 1   355.0     3.10    27.50    99.00    99.00
 8  6 11 15    15.0 1   351.0     3.60    27.60    99.00    99.00
 8  6 11 16    15.0 1     2.0     3.60    27.80    99.00    99.00
 8  6 11 17    15.0 1   359.0     3.60    27.50    99.00    99.00
 8  6 11 18    15.0 1   344.0     2.10    27.00    99.00    99.00
 8  6 11 19    15.0 1   334.0     2.60    26.40    99.00    99.00
 8  6 11 20    15.0 1   330.0     3.10    25.10    99.00    99.00
 8  6 11 21    15.0 1   331.0     3.10    23.60    99.00    99.00
 8  6 11 22    15.0 1   336.0     2.10    22.40    99.00    99.00
 8  6 11 23    15.0 1   287.0     1.50    21.10    99.00    99.00
 8  6 11 24    15.0 1   274.0     1.50    20.30    99.00    99.00
 8  6 12  1    15.0 1   289.0     0.50    19.40    99.00    99.00
 8  6 12  2    15.0 1   313.0     1.00    18.60    99.00    99.00
 8  6 12  3    15.0 1   308.0     2.10    18.00    99.00    99.00
 8  6 12  4    15.0 1   302.0     3.10    17.10    99.00    99.00
 8  6 12  5    15.0 1   290.0     2.10    16.30    99.00    99.00
 8  6 12  6    15.0 1   252.0     1.50    16.00    99.00    99.00
 8  6 12  7    15.0 1   315.0     2.10    18.00    99.00    99.00
 8  6 12  8    15.0 1   280.0     1.00    19.90    99.00    99.00
 8  6 12  9    15.0 1   262.0     0.50    22.40    99.00    99.00
 8  6 12 10    15.0 1     0.0     0.00    24.40    99.00    99.00
 8  6 12 11    15.0 1     0.0     0.00    26.50    99.00    99.00
 8  6 12 12    15.0 1     0.0     0.00    28.30    99.00    99.00
 8  6 12 13    15.0 1     0.0     0.00    29.60    99.00    99.00
 8  6 12 14    15.0 1    24.0     0.50    30.80    99.00    99.00
 8  6 12 15    15.0 1    20.0     1.00    31.40    99.00    99.00
 8  6 12 16    15.0 1    24.0     2.10    31.50    99.00    99.00
 8  6 12 17    15.0 1    25.0     3.10    30.60    99.00    99.00
 8  6 12 18    15.0 1    15.0     3.10    29.50    99.00    99.00
 8  6 12 19    15.0 1     6.0     4.10    28.40    99.00    99.00
 8  6 12 20    15.0 1     0.0     0.00    27.40    99.00    99.00
 8  6 12 21    15.0 1   298.0     3.60    26.10    99.00    99.00
 8  6 12 22    15.0 1   277.0     4.60    23.40    99.00    99.00
 8  6 12 23    15.0 1   287.0     3.60    21.80    99.00    99.00
 8  6 12 24    15.0 1   308.0     3.10    21.10    99.00    99.00
 8  6 13  1    15.0 1   349.0     1.00    20.60    99.00    99.00
 8  6 13  2    15.0 1    90.0     1.00    20.40    99.00    99.00
 8  6 13  3    15.0 1   159.0     0.50    19.60    99.00    99.00
 8  6 13  4    15.0 1   240.0     1.00    19.00    99.00    99.00
 8  6 13  5    15.0 1   277.0     1.50    18.60    99.00    99.00
 8  6 13  6    15.0 1   301.0     2.60    18.50    99.00    99.00
 8  6 13  7    15.0 1   319.0     2.60    20.10    99.00    99.00
 8  6 13  8    15.0 1   307.0     2.10    21.80    99.00    99.00
 8  6 13  9    15.0 1   315.0     1.00    24.10    99.00    99.00
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 8  6 13 10    15.0 1   300.0     0.50    27.00    99.00    99.00
 8  6 13 11    15.0 1     0.0     0.00    28.90    99.00    99.00
 8  6 13 12    15.0 1   335.0     0.50    30.60    99.00    99.00
 8  6 13 13    15.0 1   359.0     0.50    32.00    99.00    99.00
 8  6 13 14    15.0 1     6.0     1.00    33.00    99.00    99.00
 8  6 13 15    15.0 1    10.0     1.50    33.60    99.00    99.00
 8  6 13 16    15.0 1     0.0     0.00    34.00    99.00    99.00
 8  6 13 17    15.0 1     8.0     3.10    33.10    99.00    99.00
 8  6 13 18    15.0 1     0.0     0.00    32.30    99.00    99.00
 8  6 13 19    15.0 1   306.0     4.60    30.80    99.00    99.00
 8  6 13 20    15.0 1   279.0     4.60    26.30    99.00    99.00
 8  6 13 21    15.0 1   266.0     4.60    23.60    99.00    99.00
 8  6 13 22    15.0 1   277.0     4.10    22.10    99.00    99.00
 8  6 13 23    15.0 1   308.0     2.10    21.50    99.00    99.00
 8  6 13 24    15.0 1    49.0     3.10    21.10    99.00    99.00
 8  6 14  1    15.0 1    52.0     3.60    20.60    99.00    99.00
 8  6 14  2    15.0 1    21.0     3.10    19.90    99.00    99.00
 8  6 14  3    15.0 1     0.0     0.00    19.10    99.00    99.00
 8  6 14  4    15.0 1   354.0     2.60    18.30    99.00    99.00
 8  6 14  5    15.0 1     5.0     2.10    17.90    99.00    99.00
 8  6 14  6    15.0 1   342.0     1.50    18.00    99.00    99.00
 8  6 14  7    15.0 1   297.0     1.00    19.80    99.00    99.00
 8  6 14  8    15.0 1     0.0     0.00    21.80    99.00    99.00
 8  6 14  9    15.0 1     0.0     0.00    23.60    99.00    99.00
 8  6 14 10    15.0 1     0.0     0.00    25.60    99.00    99.00
 8  6 14 11    15.0 1     0.0     0.00    27.60    99.00    99.00
 8  6 14 12    15.0 1     0.0     0.00    29.10    99.00    99.00
 8  6 14 13    15.0 1     0.0     0.00    30.60    99.00    99.00
 8  6 14 14    15.0 1   357.0     1.00    31.80    99.00    99.00
 8  6 14 15    15.0 1     0.0     0.00    32.50    99.00    99.00
 8  6 14 16    15.0 1    14.0     2.10    32.60    99.00    99.00
 8  6 14 17    15.0 1     9.0     2.60    32.50    99.00    99.00
 8  6 14 18    15.0 1   346.0     2.60    32.10    99.00    99.00
 8  6 14 19    15.0 1   295.0     5.10    29.60    99.00    99.00
 8  6 14 20    15.0 1   267.0     5.10    24.60    99.00    99.00
 8  6 14 21    15.0 1   270.0     5.10    22.10    99.00    99.00
 8  6 14 22    15.0 1   285.0     4.10    20.60    99.00    99.00
 8  6 14 23    15.0 1   291.0     3.10    19.80    99.00    99.00
 8  6 14 24    15.0 1   313.0     2.10    19.30    99.00    99.00
 8  6 15  1    15.0 1   360.0     2.60    18.60    99.00    99.00
 8  6 15  2    15.0 1   357.0     2.60    17.90    99.00    99.00
 8  6 15  3    15.0 1   330.0     2.60    17.10    99.00    99.00
 8  6 15  4    15.0 1   310.0     2.60    16.80    99.00    99.00
 8  6 15  5    15.0 1   299.0     2.60    16.60    99.00    99.00
 8  6 15  6    15.0 1   311.0     2.10    16.90    99.00    99.00
 8  6 15  7    15.0 1   329.0     1.00    18.60    99.00    99.00
 8  6 15  8    15.0 1     0.0     0.00    20.50    99.00    99.00
 8  6 15  9    15.0 1     0.0     0.00    22.30    99.00    99.00
 8  6 15 10    15.0 1     0.0     0.00    24.30    99.00    99.00
 8  6 15 11    15.0 1     0.0     0.00    26.30    99.00    99.00
 8  6 15 12    15.0 1     0.0     0.00    28.00    99.00    99.00
 8  6 15 13    15.0 1     0.0     0.00    29.60    99.00    99.00
 8  6 15 14    15.0 1   329.0     0.50    30.90    99.00    99.00
 8  6 15 15    15.0 1   350.0     1.50    31.60    99.00    99.00
 8  6 15 16    15.0 1     0.0     0.00    32.00    99.00    99.00
 8  6 15 17    15.0 1    12.0     2.60    31.60    99.00    99.00
 8  6 15 18    15.0 1    25.0     2.60    31.10    99.00    99.00
 8  6 15 19    15.0 1   344.0     2.60    30.40    99.00    99.00
 8  6 15 20    15.0 1   271.0     5.10    27.50    99.00    99.00
 8  6 15 21    15.0 1   257.0     5.10    23.00    99.00    99.00
 8  6 15 22    15.0 1   257.0     4.60    21.40    99.00    99.00
 8  6 15 23    15.0 1   267.0     3.60    20.50    99.00    99.00
 8  6 15 24    15.0 1   280.0     2.60    20.10    99.00    99.00
 8  6 16  1    15.0 1   306.0     1.50    19.90    99.00    99.00
 8  6 16  2    15.0 1   329.0     1.50    19.60    99.00    99.00
 8  6 16  3    15.0 1   317.0     1.50    19.40    99.00    99.00
 8  6 16  4    15.0 1   308.0     1.50    18.90    99.00    99.00
 8  6 16  5    15.0 1   319.0     1.50    18.40    99.00    99.00
 8  6 16  6    15.0 1   352.0     1.50    18.10    99.00    99.00
 8  6 16  7    15.0 1     0.0     0.00    19.40    99.00    99.00
 8  6 16  8    15.0 1     0.0     0.00    21.40    99.00    99.00
 8  6 16  9    15.0 1     0.0     0.00    23.30    99.00    99.00
 8  6 16 10    15.0 1     0.0     0.00    25.10    99.00    99.00
 8  6 16 11    15.0 1     0.0     0.00    26.80    99.00    99.00
 8  6 16 12    15.0 1     0.0     0.00    28.30    99.00    99.00
 8  6 16 13    15.0 1     0.0     0.00    29.80    99.00    99.00
 8  6 16 14    15.0 1   337.0     0.50    31.00    99.00    99.00
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 8  6 16 15    15.0 1   353.0     1.50    31.60    99.00    99.00
 8  6 16 16    15.0 1     0.0     0.00    31.90    99.00    99.00
 8  6 16 17    15.0 1     8.0     2.60    31.50    99.00    99.00
 8  6 16 18    15.0 1    12.0     2.60    30.80    99.00    99.00
 8  6 16 19    15.0 1    12.0     3.60    29.80    99.00    99.00
 8  6 16 20    15.0 1     2.0     3.10    28.50    99.00    99.00
 8  6 16 21    15.0 1   335.0     2.60    27.40    99.00    99.00
 8  6 16 22    15.0 1   305.0     3.60    26.10    99.00    99.00
 8  6 16 23    15.0 1   303.0     4.10    24.40    99.00    99.00
 8  6 16 24    15.0 1   309.0     4.10    23.10    99.00    99.00
 8  6 17  1    15.0 1   340.0     3.60    21.80    99.00    99.00
 8  6 17  2    15.0 1   352.0     3.60    20.40    99.00    99.00
 8  6 17  3    15.0 1   354.0     3.10    19.50    99.00    99.00
 8  6 17  4    15.0 1   355.0     2.10    18.80    99.00    99.00
 8  6 17  5    15.0 1   341.0     1.50    18.30    99.00    99.00
 8  6 17  6    15.0 1   345.0     1.50    18.30    99.00    99.00
 8  6 17  7    15.0 1   346.0     1.50    19.50    99.00    99.00
 8  6 17  8    15.0 1   341.0     0.50    21.40    99.00    99.00
 8  6 17  9    15.0 1     0.0     0.00    23.60    99.00    99.00
 8  6 17 10    15.0 1     0.0     0.00    25.60    99.00    99.00
 8  6 17 11    15.0 1     0.0     0.00    27.40    99.00    99.00
 8  6 17 12    15.0 1   308.0     0.50    28.90    99.00    99.00
 8  6 17 13    15.0 1   333.0     1.00    30.10    99.00    99.00
 8  6 17 14    15.0 1   342.0     1.50    31.00    99.00    99.00
 8  6 17 15    15.0 1   352.0     2.10    31.60    99.00    99.00
 8  6 17 16    15.0 1   360.0     3.10    31.80    99.00    99.00
 8  6 17 17    15.0 1     0.0     0.00    31.30    99.00    99.00
 8  6 17 18    15.0 1     0.0     0.00    30.60    99.00    99.00
 8  6 17 19    15.0 1   351.0     4.10    29.10    99.00    99.00
 8  6 17 20    15.0 1   330.0     4.10    26.90    99.00    99.00
 8  6 17 21    15.0 1   328.0     3.60    25.40    99.00    99.00
 8  6 17 22    15.0 1   320.0     3.10    24.60    99.00    99.00
 8  6 17 23    15.0 1   297.0     2.60    23.90    99.00    99.00
 8  6 17 24    15.0 1   300.0     2.60    23.00    99.00    99.00
 8  6 18  1    15.0 1   312.0     2.60    22.30    99.00    99.00
 8  6 18  2    15.0 1   335.0     2.10    21.50    99.00    99.00
 8  6 18  3    15.0 1   328.0     1.00    20.60    99.00    99.00
 8  6 18  4    15.0 1   298.0     1.00    19.90    99.00    99.00
 8  6 18  5    15.0 1   294.0     1.50    19.10    99.00    99.00
 8  6 18  6    15.0 1   276.0     1.00    19.00    99.00    99.00
 8  6 18  7    15.0 1   353.0     2.10    20.50    99.00    99.00
 8  6 18  8    15.0 1     0.0     0.00    22.40    99.00    99.00
 8  6 18  9    15.0 1     0.0     0.00    24.10    99.00    99.00
 8  6 18 10    15.0 1     0.0     0.00    26.00    99.00    99.00
 8  6 18 11    15.0 1     0.0     0.00    27.60    99.00    99.00
 8  6 18 12    15.0 1   286.0     0.50    29.10    99.00    99.00
 8  6 18 13    15.0 1   306.0     1.00    30.40    99.00    99.00
 8  6 18 14    15.0 1   322.0     1.50    31.10    99.00    99.00
 8  6 18 15    15.0 1   336.0     2.60    31.50    99.00    99.00
 8  6 18 16    15.0 1   350.0     3.10    31.80    99.00    99.00
 8  6 18 17    15.0 1   355.0     3.10    31.10    99.00    99.00
 8  6 18 18    15.0 1   351.0     2.60    30.30    99.00    99.00
 8  6 18 19    15.0 1   344.0     3.10    29.60    99.00    99.00
 8  6 18 20    15.0 1   328.0     3.60    28.00    99.00    99.00
 8  6 18 21    15.0 1   326.0     3.60    26.50    99.00    99.00
 8  6 18 22    15.0 1   326.0     2.60    25.30    99.00    99.00
 8  6 18 23    15.0 1   324.0     2.60    24.10    99.00    99.00
 8  6 18 24    15.0 1   308.0     3.10    23.10    99.00    99.00
 8  6 19  1    15.0 1   321.0     3.10    22.30    99.00    99.00
 8  6 19  2    15.0 1   322.0     2.10    21.40    99.00    99.00
 8  6 19  3    15.0 1   311.0     1.00    20.60    99.00    99.00
 8  6 19  4    15.0 1   301.0     1.00    19.90    99.00    99.00
 8  6 19  5    15.0 1   298.0     1.50    19.10    99.00    99.00
 8  6 19  6    15.0 1   301.0     1.50    19.00    99.00    99.00
 8  6 19  7    15.0 1   327.0     2.10    20.50    99.00    99.00
 8  6 19  8    15.0 1     0.0     0.00    22.30    99.00    99.00
 8  6 19  9    15.0 1     0.0     0.00    24.40    99.00    99.00
 8  6 19 10    15.0 1     0.0     0.00    26.10    99.00    99.00
 8  6 19 11    15.0 1     0.0     0.00    28.30    99.00    99.00
 8  6 19 12    15.0 1     0.0     0.00    30.00    99.00    99.00
 8  6 19 13    15.0 1     0.0     0.00    31.50    99.00    99.00
 8  6 19 14    15.0 1     0.0     0.00    32.50    99.00    99.00
 8  6 19 15    15.0 1   344.0     1.00    33.10    99.00    99.00
 8  6 19 16    15.0 1   356.0     1.50    33.40    99.00    99.00
 8  6 19 17    15.0 1     0.0     0.00    32.80    99.00    99.00
 8  6 19 18    15.0 1    11.0     2.60    31.90    99.00    99.00
 8  6 19 19    15.0 1     6.0     3.10    30.90    99.00    99.00
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 8  6 19 20    15.0 1     6.0     1.50    29.50    99.00    99.00
 8  6 19 21    15.0 1   328.0     0.50    28.00    99.00    99.00
 8  6 19 22    15.0 1   291.0     0.50    26.60    99.00    99.00
 8  6 19 23    15.0 1   316.0     1.00    25.60    99.00    99.00
 8  6 19 24    15.0 1   336.0     1.00    24.80    99.00    99.00
 8  6 20  1    15.0 1   337.0     1.50    24.10    99.00    99.00
 8  6 20  2    15.0 1   330.0     2.10    23.40    99.00    99.00
 8  6 20  3    15.0 1   327.0     2.60    22.60    99.00    99.00
 8  6 20  4    15.0 1   334.0     3.10    21.60    99.00    99.00
 8  6 20  5    15.0 1   332.0     2.60    20.90    99.00    99.00
 8  6 20  6    15.0 1   307.0     1.50    20.60    99.00    99.00
 8  6 20  7    15.0 1   326.0     1.50    22.00    99.00    99.00
 8  6 20  8    15.0 1     0.0     0.00    24.10    99.00    99.00
 8  6 20  9    15.0 1     0.0     0.00    26.80    99.00    99.00
 8  6 20 10    15.0 1     0.0     0.00    28.90    99.00    99.00
 8  6 20 11    15.0 1     0.0     0.00    30.60    99.00    99.00
 8  6 20 12    15.0 1     0.0     0.00    32.10    99.00    99.00
 8  6 20 13    15.0 1     0.0     0.00    33.50    99.00    99.00
 8  6 20 14    15.0 1     0.0     0.00    34.50    99.00    99.00
 8  6 20 15    15.0 1    51.0     0.50    35.10    99.00    99.00
 8  6 20 16    15.0 1    32.0     1.50    35.30    99.00    99.00
 8  6 20 17    15.0 1    31.0     2.10    34.80    99.00    99.00
 8  6 20 18    15.0 1    28.0     2.60    34.10    99.00    99.00
 8  6 20 19    15.0 1    28.0     2.10    33.10    99.00    99.00
 8  6 20 20    15.0 1    20.0     0.50    31.60    99.00    99.00
 8  6 20 21    15.0 1     0.0     0.00    30.00    99.00    99.00
 8  6 20 22    15.0 1     0.0     0.00    28.40    99.00    99.00
 8  6 20 23    15.0 1    58.0     0.50    27.00    99.00    99.00
 8  6 20 24    15.0 1    78.0     1.00    26.00    99.00    99.00
 8  6 21  1    15.0 1    77.0     1.00    25.30    99.00    99.00
 8  6 21  2    15.0 1     0.0     0.00    24.60    99.00    99.00
 8  6 21  3    15.0 1   295.0     0.50    24.00    99.00    99.00
 8  6 21  4    15.0 1     0.0     0.00    23.40    99.00    99.00
 8  6 21  5    15.0 1   238.0     0.50    23.00    99.00    99.00
 8  6 21  6    15.0 1   254.0     1.00    23.10    99.00    99.00
 8  6 21  7    15.0 1   283.0     0.50    25.40    99.00    99.00
 8  6 21  8    15.0 1     0.0     0.00    27.50    99.00    99.00
 8  6 21  9    15.0 1     0.0     0.00    29.80    99.00    99.00
 8  6 21 10    15.0 1     0.0     0.00    31.90    99.00    99.00
 8  6 21 11    15.0 1     0.0     0.00    33.40    99.00    99.00
 8  6 21 12    15.0 1     0.0     0.00    34.80    99.00    99.00
 8  6 21 13    15.0 1    23.0     0.50    36.00    99.00    99.00
 8  6 21 14    15.0 1    31.0     0.50    37.00    99.00    99.00
 8  6 21 15    15.0 1    65.0     0.50    37.60    99.00    99.00
 8  6 21 16    15.0 1    74.0     1.00    37.80    99.00    99.00
 8  6 21 17    15.0 1    50.0     1.00    37.80    99.00    99.00
 8  6 21 18    15.0 1   297.0     2.10    37.60    99.00    99.00
 8  6 21 19    15.0 1   293.0     5.10    34.60    99.00    99.00
 8  6 21 20    15.0 1   267.0     5.10    30.10    99.00    99.00
 8  6 21 21    15.0 1   259.0     5.10    27.30    99.00    99.00
 8  6 21 22    15.0 1   272.0     4.60    25.60    99.00    99.00
 8  6 21 23    15.0 1   294.0     3.60    25.10    99.00    99.00
 8  6 21 24    15.0 1   318.0     2.10    25.00    99.00    99.00
 8  6 22  1    15.0 1     5.0     0.50    24.60    99.00    99.00
 8  6 22  2    15.0 1     0.0     0.00    24.10    99.00    99.00
 8  6 22  3    15.0 1     0.0     0.00    23.60    99.00    99.00
 8  6 22  4    15.0 1    33.0     0.50    23.10    99.00    99.00
 8  6 22  5    15.0 1    10.0     0.50    22.40    99.00    99.00
 8  6 22  6    15.0 1   348.0     1.00    22.00    99.00    99.00
 8  6 22  7    15.0 1   352.0     1.50    22.80    99.00    99.00
 8  6 22  8    15.0 1     0.0     0.00    24.40    99.00    99.00
 8  6 22  9    15.0 1     0.0     0.00    26.30    99.00    99.00
 8  6 22 10    15.0 1     0.0     0.00    27.90    99.00    99.00
 8  6 22 11    15.0 1     0.0     0.00    29.60    99.00    99.00
 8  6 22 12    15.0 1     0.0     0.00    31.10    99.00    99.00
 8  6 22 13    15.0 1   324.0     0.50    32.50    99.00    99.00
 8  6 22 14    15.0 1   360.0     1.00    33.60    99.00    99.00
 8  6 22 15    15.0 1     0.0     0.00    34.10    99.00    99.00
 8  6 22 16    15.0 1     0.0     0.00    34.00    99.00    99.00
 8  6 22 17    15.0 1     0.0     0.00    33.00    99.00    99.00
 8  6 22 18    15.0 1   351.0     3.60    32.10    99.00    99.00
 8  6 22 19    15.0 1   334.0     4.10    30.60    99.00    99.00
 8  6 22 20    15.0 1   323.0     4.10    28.90    99.00    99.00
 8  6 22 21    15.0 1   298.0     4.10    27.10    99.00    99.00
 8  6 22 22    15.0 1   281.0     4.10    25.50    99.00    99.00
 8  6 22 23    15.0 1   281.0     3.60    24.30    99.00    99.00
 8  6 22 24    15.0 1   298.0     3.60    23.40    99.00    99.00
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 8   6 23   1     15.0 1   334.0      3.10     22.50     99.00     99.00
 8   6 23   2     15.0 1   358.0      2.60     21.80     99.00     99.00
 8   6 23   3     15.0 1    32.0      1.50     21.10     99.00     99.00
 8   6 23   4     15.0 1    41.0      1.50     20.60     99.00     99.00
 8   6 23   5     15.0 1    33.0      1.50     20.00     99.00     99.00
 8   6 23   6     15.0 1     7.0      1.50     19.80     99.00     99.00
 8   6 23   7     15.0 1   355.0      1.50     20.80     99.00     99.00
 8   6 23   8     15.0 1   312.0      1.00     22.50     99.00     99.00
 8   6 23   9     15.0 1     0.0      0.00     24.00     99.00     99.00
 8   6 23  10     15.0 1     0.0      0.00     25.60     99.00     99.00
 8   6 23  11     15.0 1     0.0      0.00     27.10     99.00     99.00
 8   6 23  12     15.0 1     0.0      0.00     28.60     99.00     99.00
 8   6 23  13     15.0 1     0.0      0.00     29.80     99.00     99.00
 8   6 23  14     15.0 1    14.0      0.50     30.60     99.00     99.00
 8   6 23  15     15.0 1     9.0      1.50     31.10     99.00     99.00
 8   6 23  16     15.0 1    16.0      2.60     30.90     99.00     99.00
 8   6 23  17     15.0 1    18.0      3.10     30.40     99.00     99.00
 8   6 23  18     15.0 1    19.0      2.60     29.60     99.00     99.00
 8   6 23  19     15.0 1     6.0      3.10     28.90     99.00     99.00
 8   6 23  20     15.0 1   329.0      2.60     27.80     99.00     99.00
 8   6 23  21     15.0 1   271.0      5.10     25.50     99.00     99.00
 8   6 23  22     15.0 1   258.0      5.10     21.90     99.00     99.00
 8   6 23  23     15.0 1   266.0      4.10     20.50     99.00     99.00
 8   6 23  24     15.0 1   273.0      3.10     20.10     99.00     99.00
 8   6 24   1     15.0 1   273.0      2.60     19.90     99.00     99.00
 8   6 24   2     15.0 1   298.0      2.10     19.60     99.00     99.00
 8   6 24   3     15.0 1   307.0      1.00     19.30     99.00     99.00
 8   6 24   4     15.0 1   329.0      0.50     18.80     99.00     99.00
 8   6 24   5     15.0 1   337.0      0.50     18.30     99.00     99.00
 8   6 24   6     15.0 1     0.0      0.00     18.10     99.00     99.00
 8   6 24   7     15.0 1   359.0      1.00     19.60     99.00     99.00
 8   6 24   8     15.0 1     0.0      0.00     21.50     99.00     99.00
 8   6 24   9     15.0 1     0.0      0.00     23.10     99.00     99.00
 8   6 24  10     15.0 1     0.0      0.00     25.00     99.00     99.00
 8   6 24  11     15.0 1   276.0      0.50     26.60     99.00     99.00
 8   6 24  12     15.0 1   286.0      0.50     28.10     99.00     99.00
 8   6 24  13     15.0 1     0.0      0.00     29.30     99.00     99.00
 8   6 24  14     15.0 1     0.0      0.00     30.10     99.00     99.00
 8   6 24  15     15.0 1    16.0      1.00     30.90     99.00     99.00
 8   6 24  16     15.0 1    16.0      2.10     31.10     99.00     99.00
 8   6 24  17     15.0 1    18.0      2.60     30.90     99.00     99.00
 8   6 24  18     15.0 1    22.0      2.60     30.10     99.00     99.00
 8   6 24  19     15.0 1    16.0      3.10     29.40     99.00     99.00
 8   6 24  20     15.0 1   359.0      2.60     28.10     99.00     99.00
 8   6 24  21     15.0 1   285.0      3.10     26.90     99.00     99.00
 8   6 24  22     15.0 1   272.0      4.60     23.40     99.00     99.00
 8   6 24  23     15.0 1   271.0      3.60     22.10     99.00     99.00
 8   6 24  24     15.0 1   262.0      3.10     21.60     99.00     99.00
 8   6 25   1     15.0 1   292.0      2.60     21.50     99.00     99.00
 8   6 25   2     15.0 1   335.0      3.10     21.00     99.00     99.00
 8   6 25   3     15.0 1   343.0      3.10     20.10     99.00     99.00
 8   6 25   4     15.0 1   355.0      2.60     19.40     99.00     99.00
 8   6 25   5     15.0 1   349.0      2.10     18.60     99.00     99.00
 8   6 25   6     15.0 1     3.0      1.50     18.60     99.00     99.00
 8   6 25   7     15.0 1   346.0      2.10     19.80     99.00     99.00
 8   6 25   8     15.0 1   336.0      0.50     21.60     99.00     99.00
 8   6 25   9     15.0 1     0.0      0.00     23.50     99.00     99.00
 8   6 25  10     15.0 1     0.0      0.00     25.30     99.00     99.00
 8   6 25  11     15.0 1     0.0      0.00     27.00     99.00     99.00
 8   6 25  12     15.0 1     0.0      0.00     28.40     99.00     99.00
 8   6 25  13     15.0 1   323.0      0.50     29.50     99.00     99.00
 8   6 25  14     15.0 1   336.0      1.00     30.40     99.00     99.00
 8   6 25  15     15.0 1   352.0      1.50     31.10     99.00     99.00
 8   6 25  16     15.0 1   360.0      2.10     31.30     99.00     99.00
 8   6 25  17     15.0 1     0.0      0.00     31.00     99.00     99.00
 8   6 25  18     15.0 1    14.0      2.60     30.10     99.00     99.00
 8   6 25  19     15.0 1   358.0      3.10     29.40     99.00     99.00
 8   6 25  20     15.0 1   287.0      4.10     28.10     99.00     99.00
 8   6 25  21     15.0 1   263.0      6.20     23.50     99.00     99.00
 8   6 25  22     15.0 1   260.0      5.10     21.50     99.00     99.00
 8   6 25  23     15.0 1   259.0      4.10     20.60     99.00     99.00
 8   6 25  24     15.0 1   273.0      3.60     20.00     99.00     99.00
 8   6 26   1     15.0 1   301.0      2.10     19.60     99.00     99.00
 8   6 26   2     15.0 1     5.0      1.50     19.60     99.00     99.00
 8   6 26   3     15.0 1   336.0      1.50     19.30     99.00     99.00
 8   6 26   4     15.0 1   318.0      1.50     18.90     99.00     99.00
 8   6 26   5     15.0 1   316.0      1.50     18.50     99.00     99.00
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 8  6 26  6    15.0 1   326.0     1.50    18.40    99.00    99.00
 8  6 26  7    15.0 1   340.0     1.00    19.80    99.00    99.00
 8  6 26  8    15.0 1     0.0     0.00    21.50    99.00    99.00
 8  6 26  9    15.0 1     0.0     0.00    23.10    99.00    99.00
 8  6 26 10    15.0 1     0.0     0.00    24.90    99.00    99.00
 8  6 26 11    15.0 1     0.0     0.00    26.60    99.00    99.00
 8  6 26 12    15.0 1     0.0     0.00    28.10    99.00    99.00
 8  6 26 13    15.0 1     0.0     0.00    29.60    99.00    99.00
 8  6 26 14    15.0 1   358.0     0.50    30.80    99.00    99.00
 8  6 26 15    15.0 1     0.0     0.00    31.50    99.00    99.00
 8  6 26 16    15.0 1     0.0     0.00    31.80    99.00    99.00
 8  6 26 17    15.0 1     7.0     2.60    31.60    99.00    99.00
 8  6 26 18    15.0 1    15.0     2.60    31.00    99.00    99.00
 8  6 26 19    15.0 1     6.0     3.10    30.10    99.00    99.00
 8  6 26 20    15.0 1   302.0     4.10    28.60    99.00    99.00
 8  6 26 21    15.0 1   283.0     4.60    24.10    99.00    99.00
 8  6 26 22    15.0 1   268.0     4.60    22.00    99.00    99.00
 8  6 26 23    15.0 1   283.0     4.10    21.00    99.00    99.00
 8  6 26 24    15.0 1   305.0     2.60    20.30    99.00    99.00
 8  6 27  1    15.0 1   327.0     2.10    19.90    99.00    99.00
 8  6 27  2    15.0 1     0.0     0.00    19.50    99.00    99.00
 8  6 27  3    15.0 1     6.0     2.60    19.10    99.00    99.00
 8  6 27  4    15.0 1    15.0     1.50    18.80    99.00    99.00
 8  6 27  5    15.0 1     2.0     1.00    18.50    99.00    99.00
 8  6 27  6    15.0 1     8.0     0.50    18.60    99.00    99.00
 8  6 27  7    15.0 1   307.0     1.00    20.90    99.00    99.00
 8  6 27  8    15.0 1     0.0     0.00    22.60    99.00    99.00
 8  6 27  9    15.0 1     0.0     0.00    24.80    99.00    99.00
 8  6 27 10    15.0 1     0.0     0.00    26.90    99.00    99.00
 8  6 27 11    15.0 1     0.0     0.00    29.10    99.00    99.00
 8  6 27 12    15.0 1     0.0     0.00    31.00    99.00    99.00
 8  6 27 13    15.0 1     0.0     0.00    32.60    99.00    99.00
 8  6 27 14    15.0 1     0.0     0.00    34.10    99.00    99.00
 8  6 27 15    15.0 1     0.0     0.00    35.10    99.00    99.00
 8  6 27 16    15.0 1   322.0     0.50    35.60    99.00    99.00
 8  6 27 17    15.0 1     6.0     1.50    35.40    99.00    99.00
 8  6 27 18    15.0 1   312.0     3.60    33.90    99.00    99.00
 8  6 27 19    15.0 1   295.0     5.10    29.40    99.00    99.00
 8  6 27 20    15.0 1   284.0     4.60    25.60    99.00    99.00
 8  6 27 21    15.0 1   276.0     5.10    23.10    99.00    99.00
 8  6 27 22    15.0 1   294.0     4.10    21.30    99.00    99.00
 8  6 27 23    15.0 1   342.0     3.10    20.60    99.00    99.00
 8  6 27 24    15.0 1   348.0     3.60    19.80    99.00    99.00
 8  6 28  1    15.0 1   336.0     4.10    19.00    99.00    99.00
 8  6 28  2    15.0 1   339.0     4.10    18.30    99.00    99.00
 8  6 28  3    15.0 1   352.0     4.10    17.60    99.00    99.00
 8  6 28  4    15.0 1     0.0     0.00    17.30    99.00    99.00
 8  6 28  5    15.0 1    19.0     3.10    16.90    99.00    99.00
 8  6 28  6    15.0 1    26.0     2.10    17.40    99.00    99.00
 8  6 28  7    15.0 1     9.0     1.00    19.50    99.00    99.00
 8  6 28  8    15.0 1     0.0     0.00    21.60    99.00    99.00
 8  6 28  9    15.0 1     0.0     0.00    24.00    99.00    99.00
 8  6 28 10    15.0 1     0.0     0.00    25.90    99.00    99.00
 8  6 28 11    15.0 1     0.0     0.00    28.00    99.00    99.00
 8  6 28 12    15.0 1     0.0     0.00    30.00    99.00    99.00
 8  6 28 13    15.0 1     0.0     0.00    31.60    99.00    99.00
 8  6 28 14    15.0 1     6.0     0.50    32.90    99.00    99.00
 8  6 28 15    15.0 1    24.0     1.00    33.60    99.00    99.00
 8  6 28 16    15.0 1    25.0     2.10    34.10    99.00    99.00
 8  6 28 17    15.0 1    23.0     2.60    33.40    99.00    99.00
 8  6 28 18    15.0 1     7.0     3.10    32.60    99.00    99.00
 8  6 28 19    15.0 1   305.0     5.10    30.60    99.00    99.00
 8  6 28 20    15.0 1   282.0     5.70    25.40    99.00    99.00
 8  6 28 21    15.0 1   279.0     5.70    22.60    99.00    99.00
 8  6 28 22    15.0 1   282.0     4.60    21.00    99.00    99.00
 8  6 28 23    15.0 1   314.0     2.60    20.10    99.00    99.00
 8  6 28 24    15.0 1    27.0     3.10    19.80    99.00    99.00
 8  6 29  1    15.0 1    28.0     3.10    19.10    99.00    99.00
 8  6 29  2    15.0 1     0.0     0.00    18.60    99.00    99.00
 8  6 29  3    15.0 1   340.0     2.60    18.00    99.00    99.00
 8  6 29  4    15.0 1   346.0     3.10    17.60    99.00    99.00
 8  6 29  5    15.0 1   358.0     3.10    17.30    99.00    99.00
 8  6 29  6    15.0 1   347.0     2.10    17.50    99.00    99.00
 8  6 29  7    15.0 1   334.0     1.50    19.10    99.00    99.00
 8  6 29  8    15.0 1     0.0     0.00    21.00    99.00    99.00
 8  6 29  9    15.0 1     0.0     0.00    22.60    99.00    99.00
 8  6 29 10    15.0 1     0.0     0.00    24.60    99.00    99.00
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 8   6 29 11     15.0 1      0.0      0.00     26.60     99.00     99.00
 8   6 29 12     15.0 1      0.0      0.00     28.50     99.00     99.00
 8   6 29 13     15.0 1    324.0      0.50     29.90     99.00     99.00
 8   6 29 14     15.0 1    339.0      1.50     31.00     99.00     99.00
 8   6 29 15     15.0 1    355.0      2.60     31.60     99.00     99.00
 8   6 29 16     15.0 1     12.0      3.60     31.90     99.00     99.00
 8   6 29 17     15.0 1     22.0      3.10     31.30     99.00     99.00
 8   6 29 18     15.0 1     22.0      2.60     30.80     99.00     99.00
 8   6 29 19     15.0 1    318.0      3.60     30.30     99.00     99.00
 8   6 29 20     15.0 1    281.0      5.10     25.80     99.00     99.00
 8   6 29 21     15.0 1    269.0      5.70     22.10     99.00     99.00
 8   6 29 22     15.0 1    272.0      5.10     20.60     99.00     99.00
 8   6 29 23     15.0 1    287.0      3.60     19.60     99.00     99.00
 8   6 29 24     15.0 1    327.0      2.60     19.00     99.00     99.00
 8   6 30  1     15.0 1    358.0      2.10     18.60     99.00     99.00
 8   6 30  2     15.0 1    355.0      1.00     18.40     99.00     99.00
 8   6 30  3     15.0 1    304.0      0.50     18.10     99.00     99.00
 8   6 30  4     15.0 1    288.0      0.50     17.80     99.00     99.00
 8   6 30  5     15.0 1      0.0      0.00     17.50     99.00     99.00
 8   6 30  6     15.0 1     20.0      0.50     17.40     99.00     99.00
 8   6 30  7     15.0 1     12.0      1.00     18.50     99.00     99.00
 8   6 30  8     15.0 1      0.0      0.00     20.40     99.00     99.00
 8   6 30  9     15.0 1      0.0      0.00     22.00     99.00     99.00
 8   6 30 10     15.0 1      0.0      0.00     24.00     99.00     99.00
 8   6 30 11     15.0 1      0.0      0.00     25.80     99.00     99.00
 8   6 30 12     15.0 1      0.0      0.00     27.30     99.00     99.00
 8   6 30 13     15.0 1    352.0      0.50     28.80     99.00     99.00
 8   6 30 14     15.0 1      0.0      0.00     30.00     99.00     99.00
 8   6 30 15     15.0 1     11.0      2.10     30.90     99.00     99.00
 8   6 30 16     15.0 1     11.0      2.60     31.30     99.00     99.00
 8   6 30 17     15.0 1     14.0      3.10     31.10     99.00     99.00
 8   6 30 18     15.0 1    353.0      2.60     30.60     99.00     99.00
 8   6 30 19     15.0 1    298.0      4.60     29.00     99.00     99.00
 8   6 30 20     15.0 1    275.0      5.10     24.10     99.00     99.00
 8   6 30 21     15.0 1    270.0      5.10     21.50     99.00     99.00
 8   6 30 22     15.0 1    275.0      4.60     20.10     99.00     99.00
 8   6 30 23     15.0 1    293.0      4.10     19.00     99.00     99.00
 8   6 30 24     15.0 1    304.0      3.10     18.10     99.00     99.00
 8   7  1  1     15.0 1    320.0      2.60     17.60     99.00     99.00
 8   7  1  2     15.0 1    331.0      2.60     17.30     99.00     99.00
 8   7  1  3     15.0 1    315.0      2.10     17.10     99.00     99.00
 8   7  1  4     15.0 1    301.0      1.50     16.90     99.00     99.00
 8   7  1  5     15.0 1    310.0      1.00     16.50     99.00     99.00
 8   7  1  6     15.0 1    352.0      0.50     16.50     99.00     99.00
 8   7  1  7     15.0 1      1.0      0.50     17.80     99.00     99.00
 8   7  1  8     15.0 1      0.0      0.00     19.60     99.00     99.00
 8   7  1  9     15.0 1      0.0      0.00     21.40     99.00     99.00
 8   7  1 10     15.0 1      0.0      0.00     23.40     99.00     99.00
 8   7  1 11     15.0 1      0.0      0.00     25.10     99.00     99.00
 8   7  1 12     15.0 1      0.0      0.00     26.80     99.00     99.00
 8   7  1 13     15.0 1    334.0      0.50     28.30     99.00     99.00
 8   7  1 14     15.0 1    342.0      1.00     29.40     99.00     99.00
 8   7  1 15     15.0 1    352.0      2.10     30.00     99.00     99.00
 8   7  1 16     15.0 1      3.0      2.60     30.30     99.00     99.00
 8   7  1 17     15.0 1      0.0      0.00     30.00     99.00     99.00
 8   7  1 18     15.0 1      9.0      2.60     29.50     99.00     99.00
 8   7  1 19     15.0 1     15.0      3.10     28.60     99.00     99.00
 8   7  1 20     15.0 1      0.0      0.00     27.30     99.00     99.00
 8   7  1 21     15.0 1    343.0      3.10     25.80     99.00     99.00
 8   7  1 22     15.0 1    319.0      3.10     24.50     99.00     99.00
 8   7  1 23     15.0 1    306.0      3.10     23.30     99.00     99.00
 8   7  1 24     15.0 1    312.0      3.10     22.40     99.00     99.00
 8   7  2  1     15.0 1    329.0      2.60     21.60     99.00     99.00
 8   7  2  2     15.0 1     14.0      2.60     20.80     99.00     99.00
 8   7  2  3     15.0 1     16.0      2.60     19.90     99.00     99.00
 8   7  2  4     15.0 1     17.0      2.60     19.10     99.00     99.00
 8   7  2  5     15.0 1     11.0      2.10     18.40     99.00     99.00
 8   7  2  6     15.0 1      8.0      2.10     18.10     99.00     99.00
 8   7  2  7     15.0 1      6.0      1.50     19.40     99.00     99.00
 8   7  2  8     15.0 1      0.0      0.00     21.30     99.00     99.00
 8   7  2  9     15.0 1      0.0      0.00     23.10     99.00     99.00
 8   7  2 10     15.0 1      0.0      0.00     24.90     99.00     99.00
 8   7  2 11     15.0 1      0.0      0.00     26.60     99.00     99.00
 8   7  2 12     15.0 1      0.0      0.00     28.30     99.00     99.00
 8   7  2 13     15.0 1      0.0      0.00     29.40     99.00     99.00
 8   7  2 14     15.0 1    336.0      0.50     30.30     99.00     99.00
 8   7  2 15     15.0 1      7.0      1.00     31.00     99.00     99.00
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 8  7  2 16    15.0 1     8.0     2.10    31.30    99.00    99.00
 8  7  2 17    15.0 1    22.0     2.60    31.10    99.00    99.00
 8  7  2 18    15.0 1    17.0     2.10    30.60    99.00    99.00
 8  7  2 19    15.0 1     7.0     3.10    29.90    99.00    99.00
 8  7  2 20    15.0 1   359.0     2.60    28.60    99.00    99.00
 8  7  2 21    15.0 1   336.0     2.10    27.40    99.00    99.00
 8  7  2 22    15.0 1   315.0     2.60    26.10    99.00    99.00
 8  7  2 23    15.0 1   315.0     3.10    24.90    99.00    99.00
 8  7  2 24    15.0 1   331.0     3.60    23.60    99.00    99.00
 8  7  3  1    15.0 1     5.0     3.60    22.60    99.00    99.00
 8  7  3  2    15.0 1     9.0     3.10    21.50    99.00    99.00
 8  7  3  3    15.0 1    20.0     2.60    20.60    99.00    99.00
 8  7  3  4    15.0 1    21.0     1.50    19.80    99.00    99.00
 8  7  3  5    15.0 1     6.0     1.00    19.10    99.00    99.00
 8  7  3  6    15.0 1   355.0     1.00    19.00    99.00    99.00
 8  7  3  7    15.0 1     1.0     1.50    20.00    99.00    99.00
 8  7  3  8    15.0 1     0.0     0.00    21.90    99.00    99.00
 8  7  3  9    15.0 1     0.0     0.00    23.60    99.00    99.00
 8  7  3 10    15.0 1   280.0     0.50    25.60    99.00    99.00
 8  7  3 11    15.0 1     0.0     0.00    27.30    99.00    99.00
 8  7  3 12    15.0 1     0.0     0.00    28.90    99.00    99.00
 8  7  3 13    15.0 1   324.0     0.50    30.00    99.00    99.00
 8  7  3 14    15.0 1   339.0     1.50    30.80    99.00    99.00
 8  7  3 15    15.0 1     3.0     2.60    31.30    99.00    99.00
 8  7  3 16    15.0 1     0.0     0.00    31.60    99.00    99.00
 8  7  3 17    15.0 1     0.0     0.00    31.40    99.00    99.00
 8  7  3 18    15.0 1     0.0     0.00    31.10    99.00    99.00
 8  7  3 19    15.0 1   350.0     3.60    30.10    99.00    99.00
 8  7  3 20    15.0 1   327.0     4.10    28.30    99.00    99.00
 8  7  3 21    15.0 1   345.0     4.10    26.50    99.00    99.00
 8  7  3 22    15.0 1   344.0     3.60    25.30    99.00    99.00
 8  7  3 23    15.0 1   327.0     4.10    24.00    99.00    99.00
 8  7  3 24    15.0 1   331.0     3.60    22.60    99.00    99.00
 8  7  4  1    15.0 1   336.0     3.60    21.80    99.00    99.00
 8  7  4  2    15.0 1   353.0     3.10    21.10    99.00    99.00
 8  7  4  3    15.0 1   354.0     2.60    20.50    99.00    99.00
 8  7  4  4    15.0 1     2.0     2.10    20.00    99.00    99.00
 8  7  4  5    15.0 1   357.0     1.50    19.40    99.00    99.00
 8  7  4  6    15.0 1   346.0     2.10    19.10    99.00    99.00
 8  7  4  7    15.0 1   353.0     2.10    19.90    99.00    99.00
 8  7  4  8    15.0 1   338.0     1.00    21.40    99.00    99.00
 8  7  4  9    15.0 1   313.0     0.50    22.90    99.00    99.00
 8  7  4 10    15.0 1   315.0     0.50    24.40    99.00    99.00
 8  7  4 11    15.0 1   311.0     0.50    26.10    99.00    99.00
 8  7  4 12    15.0 1   321.0     0.50    27.50    99.00    99.00
 8  7  4 13    15.0 1   328.0     1.00    28.60    99.00    99.00
 8  7  4 14    15.0 1   342.0     1.50    29.40    99.00    99.00
 8  7  4 15    15.0 1   355.0     2.60    29.90    99.00    99.00
 8  7  4 16    15.0 1     5.0     3.60    29.90    99.00    99.00
 8  7  4 17    15.0 1     0.0     0.00    29.50    99.00    99.00
 8  7  4 18    15.0 1     0.0     0.00    28.80    99.00    99.00
 8  7  4 19    15.0 1     1.0     3.60    27.60    99.00    99.00
 8  7  4 20    15.0 1   353.0     3.60    26.10    99.00    99.00
 8  7  4 21    15.0 1   341.0     3.60    24.50    99.00    99.00
 8  7  4 22    15.0 1   326.0     3.60    23.30    99.00    99.00
 8  7  4 23    15.0 1   326.0     3.10    22.40    99.00    99.00
 8  7  4 24    15.0 1   334.0     3.10    21.50    99.00    99.00
 8  7  5  1    15.0 1   329.0     3.10    20.80    99.00    99.00
 8  7  5  2    15.0 1   329.0     2.60    20.00    99.00    99.00
 8  7  5  3    15.0 1   344.0     2.10    19.50    99.00    99.00
 8  7  5  4    15.0 1   341.0     1.00    18.90    99.00    99.00
 8  7  5  5    15.0 1   309.0     1.00    18.50    99.00    99.00
 8  7  5  6    15.0 1   322.0     0.50    18.50    99.00    99.00
 8  7  5  7    15.0 1   353.0     1.50    19.60    99.00    99.00
 8  7  5  8    15.0 1     0.0     0.00    21.40    99.00    99.00
 8  7  5  9    15.0 1     0.0     0.00    23.10    99.00    99.00
 8  7  5 10    15.0 1     0.0     0.00    24.90    99.00    99.00
 8  7  5 11    15.0 1     0.0     0.00    26.50    99.00    99.00
 8  7  5 12    15.0 1     0.0     0.00    27.80    99.00    99.00
 8  7  5 13    15.0 1     0.0     0.00    28.90    99.00    99.00
 8  7  5 14    15.0 1   341.0     0.50    29.60    99.00    99.00
 8  7  5 15    15.0 1     8.0     1.00    30.40    99.00    99.00
 8  7  5 16    15.0 1    24.0     2.10    30.60    99.00    99.00
 8  7  5 17    15.0 1    18.0     2.60    30.60    99.00    99.00
 8  7  5 18    15.0 1    32.0     2.60    30.10    99.00    99.00
 8  7  5 19    15.0 1    25.0     3.10    29.50    99.00    99.00
 8  7  5 20    15.0 1    10.0     2.10    28.30    99.00    99.00
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 8  7  5 21    15.0 1   342.0     1.00    27.10    99.00    99.00
 8  7  5 22    15.0 1   275.0     1.00    26.00    99.00    99.00
 8  7  5 23    15.0 1   268.0     2.60    24.80    99.00    99.00
 8  7  5 24    15.0 1   285.0     3.10    23.60    99.00    99.00
 8  7  6  1    15.0 1   294.0     3.10    22.60    99.00    99.00
 8  7  6  2    15.0 1   305.0     2.60    22.10    99.00    99.00
 8  7  6  3    15.0 1   309.0     3.10    21.60    99.00    99.00
 8  7  6  4    15.0 1   327.0     3.10    21.00    99.00    99.00
 8  7  6  5    15.0 1   344.0     2.60    20.30    99.00    99.00
 8  7  6  6    15.0 1   352.0     2.10    20.00    99.00    99.00
 8  7  6  7    15.0 1     0.0     0.00    21.10    99.00    99.00
 8  7  6  8    15.0 1     0.0     0.00    23.30    99.00    99.00
 8  7  6  9    15.0 1     0.0     0.00    25.10    99.00    99.00
 8  7  6 10    15.0 1     0.0     0.00    26.60    99.00    99.00
 8  7  6 11    15.0 1     0.0     0.00    28.30    99.00    99.00
 8  7  6 12    15.0 1     0.0     0.00    29.90    99.00    99.00
 8  7  6 13    15.0 1   329.0     0.50    31.10    99.00    99.00
 8  7  6 14    15.0 1   347.0     0.50    32.00    99.00    99.00
 8  7  6 15    15.0 1   360.0     1.00    32.60    99.00    99.00
 8  7  6 16    15.0 1     0.0     0.00    32.90    99.00    99.00
 8  7  6 17    15.0 1    10.0     2.60    32.60    99.00    99.00
 8  7  6 18    15.0 1    15.0     2.60    31.90    99.00    99.00
 8  7  6 19    15.0 1    14.0     3.10    31.00    99.00    99.00
 8  7  6 20    15.0 1     0.0     0.00    29.80    99.00    99.00
 8  7  6 21    15.0 1   319.0     1.50    28.60    99.00    99.00
 8  7  6 22    15.0 1   279.0     4.10    26.40    99.00    99.00
 8  7  6 23    15.0 1   288.0     3.60    24.40    99.00    99.00
 8  7  6 24    15.0 1   296.0     2.60    23.80    99.00    99.00
 8  7  7  1    15.0 1   310.0     2.60    23.30    99.00    99.00
 8  7  7  2    15.0 1   322.0     1.50    22.80    99.00    99.00
 8  7  7  3    15.0 1   326.0     1.00    22.40    99.00    99.00
 8  7  7  4    15.0 1   326.0     1.00    22.00    99.00    99.00
 8  7  7  5    15.0 1   298.0     1.00    21.60    99.00    99.00
 8  7  7  6    15.0 1   295.0     1.00    21.50    99.00    99.00
 8  7  7  7    15.0 1   320.0     1.50    23.30    99.00    99.00
 8  7  7  8    15.0 1     0.0     0.00    25.10    99.00    99.00
 8  7  7  9    15.0 1     0.0     0.00    27.40    99.00    99.00
 8  7  7 10    15.0 1     0.0     0.00    29.40    99.00    99.00
 8  7  7 11    15.0 1     0.0     0.00    31.40    99.00    99.00
 8  7  7 12    15.0 1     0.0     0.00    33.10    99.00    99.00
 8  7  7 13    15.0 1     0.0     0.00    34.50    99.00    99.00
 8  7  7 14    15.0 1     0.0     0.00    35.60    99.00    99.00
 8  7  7 15    15.0 1    15.0     0.50    36.10    99.00    99.00
 8  7  7 16    15.0 1    23.0     1.50    36.40    99.00    99.00
 8  7  7 17    15.0 1    23.0     2.10    35.80    99.00    99.00
 8  7  7 18    15.0 1    16.0     3.10    35.00    99.00    99.00
 8  7  7 19    15.0 1     9.0     3.60    33.90    99.00    99.00
 8  7  7 20    15.0 1   317.0     4.10    32.60    99.00    99.00
 8  7  7 21    15.0 1   291.0     5.10    28.90    99.00    99.00
 8  7  7 22    15.0 1   288.0     4.10    27.00    99.00    99.00
 8  7  7 23    15.0 1   308.0     3.10    26.30    99.00    99.00
 8  7  7 24    15.0 1   333.0     2.60    25.80    99.00    99.00
 8  7  8  1    15.0 1    13.0     1.50    25.30    99.00    99.00
 8  7  8  2    15.0 1    42.0     1.50    24.60    99.00    99.00
 8  7  8  3    15.0 1    52.0     1.00    24.30    99.00    99.00
 8  7  8  4    15.0 1    80.0     0.50    23.60    99.00    99.00
 8  7  8  5    15.0 1    78.0     0.50    23.00    99.00    99.00
 8  7  8  6    15.0 1    67.0     0.50    22.60    99.00    99.00
 8  7  8  7    15.0 1     0.0     0.00    25.10    99.00    99.00
 8  7  8  8    15.0 1     0.0     0.00    27.30    99.00    99.00
 8  7  8  9    15.0 1     0.0     0.00    29.30    99.00    99.00
 8  7  8 10    15.0 1     0.0     0.00    31.30    99.00    99.00
 8  7  8 11    15.0 1     0.0     0.00    33.10    99.00    99.00
 8  7  8 12    15.0 1     0.0     0.00    34.80    99.00    99.00
 8  7  8 13    15.0 1     0.0     0.00    36.10    99.00    99.00
 8  7  8 14    15.0 1     0.0     0.00    37.30    99.00    99.00
 8  7  8 15    15.0 1    58.0     0.50    38.10    99.00    99.00
 8  7  8 16    15.0 1    36.0     1.50    38.10    99.00    99.00
 8  7  8 17    15.0 1    44.0     2.60    37.30    99.00    99.00
 8  7  8 18    15.0 1    26.0     2.60    36.80    99.00    99.00
 8  7  8 19    15.0 1   326.0     1.50    35.80    99.00    99.00
 8  7  8 20    15.0 1   295.0     5.10    33.60    99.00    99.00
 8  7  8 21    15.0 1   291.0     4.60    29.40    99.00    99.00
 8  7  8 22    15.0 1   294.0     4.10    27.60    99.00    99.00
 8  7  8 23    15.0 1   310.0     3.60    26.80    99.00    99.00
 8  7  8 24    15.0 1   354.0     3.10    26.10    99.00    99.00
 8  7  9  1    15.0 1    45.0     3.10    25.40    99.00    99.00
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 8  7  9  2    15.0 1    41.0     1.00    25.30    99.00    99.00
 8  7  9  3    15.0 1   222.0     1.00    25.10    99.00    99.00
 8  7  9  4    15.0 1   194.0     1.50    24.50    99.00    99.00
 8  7  9  5    15.0 1   191.0     1.50    24.00    99.00    99.00
 8  7  9  6    15.0 1   179.0     1.00    23.90    99.00    99.00
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 8  7  9  8    15.0 1     0.0     0.00    28.10    99.00    99.00
 8  7  9  9    15.0 1     0.0     0.00    30.00    99.00    99.00
 8  7  9 10    15.0 1     0.0     0.00    31.50    99.00    99.00
 8  7  9 11    15.0 1     0.0     0.00    33.30    99.00    99.00
 8  7  9 12    15.0 1     0.0     0.00    35.00    99.00    99.00
 8  7  9 13    15.0 1     0.0     0.00    36.40    99.00    99.00
 8  7  9 14    15.0 1     0.0     0.00    37.40    99.00    99.00
 8  7  9 15    15.0 1     6.0     1.00    38.00    99.00    99.00
 8  7  9 16    15.0 1    20.0     2.10    38.00    99.00    99.00
 8  7  9 17    15.0 1    32.0     2.60    37.10    99.00    99.00
 8  7  9 18    15.0 1   359.0     3.10    36.80    99.00    99.00
 8  7  9 19    15.0 1   312.0     4.60    35.80    99.00    99.00
 8  7  9 20    15.0 1   284.0     5.10    32.10    99.00    99.00
 8  7  9 21    15.0 1   274.0     4.60    29.10    99.00    99.00
 8  7  9 22    15.0 1   279.0     3.10    28.40    99.00    99.00
 8  7  9 23    15.0 1   351.0     1.50    27.90    99.00    99.00
 8  7  9 24    15.0 1    24.0     2.10    27.50    99.00    99.00
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 8  7 10  3    15.0 1    21.0     2.10    25.40    99.00    99.00
 8  7 10  4    15.0 1    24.0     1.00    24.60    99.00    99.00
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 8  7 10  6    15.0 1   237.0     0.50    24.00    99.00    99.00
 8  7 10  7    15.0 1   295.0     1.50    26.00    99.00    99.00
 8  7 10  8    15.0 1   301.0     1.00    27.80    99.00    99.00
 8  7 10  9    15.0 1     0.0     0.00    29.90    99.00    99.00
 8  7 10 10    15.0 1     0.0     0.00    31.60    99.00    99.00
 8  7 10 11    15.0 1     0.0     0.00    33.30    99.00    99.00
 8  7 10 12    15.0 1     0.0     0.00    34.90    99.00    99.00
 8  7 10 13    15.0 1    58.0     0.50    36.10    99.00    99.00
 8  7 10 14    15.0 1    24.0     1.00    37.10    99.00    99.00
 8  7 10 15    15.0 1    14.0     1.50    37.90    99.00    99.00
 8  7 10 16    15.0 1   352.0     1.50    38.10    99.00    99.00
 8  7 10 17    15.0 1   309.0     2.10    37.50    99.00    99.00
 8  7 10 18    15.0 1   279.0     4.10    36.60    99.00    99.00
 8  7 10 19    15.0 1   274.0     5.10    33.30    99.00    99.00
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 8  7 10 23    15.0 1   303.0     2.60    26.10    99.00    99.00
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 8  7 11  1    15.0 1    53.0     3.10    25.80    99.00    99.00
 8  7 11  2    15.0 1    23.0     2.10    25.10    99.00    99.00
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 8  7 11  4    15.0 1   354.0     2.10    23.60    99.00    99.00
 8  7 11  5    15.0 1   337.0     1.50    23.00    99.00    99.00
 8  7 11  6    15.0 1   340.0     1.50    22.80    99.00    99.00
 8  7 11  7    15.0 1   280.0     2.60    24.60    99.00    99.00
 8  7 11  8    15.0 1   314.0     1.00    26.30    99.00    99.00
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 8  7 11 10    15.0 1     0.0     0.00    29.10    99.00    99.00
 8  7 11 11    15.0 1     0.0     0.00    30.50    99.00    99.00
 8  7 11 12    15.0 1     0.0     0.00    31.60    99.00    99.00
 8  7 11 13    15.0 1     0.0     0.00    32.80    99.00    99.00
 8  7 11 14    15.0 1     0.0     0.00    33.80    99.00    99.00
 8  7 11 15    15.0 1    21.0     0.50    34.40    99.00    99.00
 8  7 11 16    15.0 1    16.0     1.50    34.60    99.00    99.00
 8  7 11 17    15.0 1   349.0     1.50    34.80    99.00    99.00
 8  7 11 18    15.0 1   283.0     2.60    34.40    99.00    99.00
 8  7 11 19    15.0 1   270.0     5.10    30.60    99.00    99.00
 8  7 11 20    15.0 1   274.0     4.60    27.50    99.00    99.00
 8  7 11 21    15.0 1   288.0     4.10    25.60    99.00    99.00
 8  7 11 22    15.0 1   313.0     3.10    24.80    99.00    99.00
 8  7 11 23    15.0 1   332.0     2.60    24.30    99.00    99.00
 8  7 11 24    15.0 1     0.0     0.00    23.80    99.00    99.00
 8  7 12  1    15.0 1    19.0     2.60    23.10    99.00    99.00
 8  7 12  2    15.0 1    39.0     3.60    22.60    99.00    99.00
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 8  7 12  4    15.0 1     6.0     2.60    21.60    99.00    99.00
 8  7 12  5    15.0 1     9.0     2.10    21.30    99.00    99.00
 8  7 12  6    15.0 1     8.0     1.50    21.40    99.00    99.00
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 8  7 12  7    15.0 1   340.0     1.00    22.60    99.00    99.00
 8  7 12  8    15.0 1     0.0     0.00    24.40    99.00    99.00
 8  7 12  9    15.0 1     0.0     0.00    26.10    99.00    99.00
 8  7 12 10    15.0 1     0.0     0.00    28.00    99.00    99.00
 8  7 12 11    15.0 1     0.0     0.00    29.60    99.00    99.00
 8  7 12 12    15.0 1     0.0     0.00    31.30    99.00    99.00
 8  7 12 13    15.0 1   302.0     0.50    32.60    99.00    99.00
 8  7 12 14    15.0 1   352.0     1.00    33.40    99.00    99.00
 8  7 12 15    15.0 1     7.0     2.10    33.80    99.00    99.00
 8  7 12 16    15.0 1     7.0     3.10    33.90    99.00    99.00
 8  7 12 17    15.0 1    14.0     2.60    33.80    99.00    99.00
 8  7 12 18    15.0 1   357.0     1.50    33.80    99.00    99.00
 8  7 12 19    15.0 1   302.0     4.10    33.30    99.00    99.00
 8  7 12 20    15.0 1   280.0     5.10    28.60    99.00    99.00
 8  7 12 21    15.0 1   278.0     4.60    26.10    99.00    99.00
 8  7 12 22    15.0 1   289.0     4.10    24.60    99.00    99.00
 8  7 12 23    15.0 1   307.0     2.60    23.90    99.00    99.00
 8  7 12 24    15.0 1     8.0     2.60    23.60    99.00    99.00
 8  7 13  1    15.0 1    38.0     3.10    23.10    99.00    99.00
 8  7 13  2    15.0 1    23.0     3.60    22.50    99.00    99.00
 8  7 13  3    15.0 1    14.0     3.10    22.00    99.00    99.00
 8  7 13  4    15.0 1    11.0     3.10    21.60    99.00    99.00
 8  7 13  5    15.0 1     8.0     2.60    21.30    99.00    99.00
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 8  7 13  7    15.0 1   312.0     1.00    23.00    99.00    99.00
 8  7 13  8    15.0 1     0.0     0.00    24.60    99.00    99.00
 8  7 13  9    15.0 1     0.0     0.00    26.10    99.00    99.00
 8  7 13 10    15.0 1     0.0     0.00    27.60    99.00    99.00
 8  7 13 11    15.0 1     0.0     0.00    29.30    99.00    99.00
 8  7 13 12    15.0 1     0.0     0.00    30.80    99.00    99.00
 8  7 13 13    15.0 1     0.0     0.00    32.00    99.00    99.00
 8  7 13 14    15.0 1     0.0     0.00    32.90    99.00    99.00
 8  7 13 15    15.0 1     4.0     1.00    33.60    99.00    99.00
 8  7 13 16    15.0 1     6.0     2.60    33.50    99.00    99.00
 8  7 13 17    15.0 1     0.0     0.00    33.50    99.00    99.00
 8  7 13 18    15.0 1   307.0     3.60    33.10    99.00    99.00
 8  7 13 19    15.0 1   295.0     5.10    29.50    99.00    99.00
 8  7 13 20    15.0 1   281.0     4.60    26.50    99.00    99.00
 8  7 13 21    15.0 1   285.0     5.10    24.40    99.00    99.00
 8  7 13 22    15.0 1   286.0     3.60    23.30    99.00    99.00
 8  7 13 23    15.0 1   326.0     2.10    22.90    99.00    99.00
 8  7 13 24    15.0 1    10.0     2.60    22.50    99.00    99.00
 8  7 14  1    15.0 1    10.0     3.10    21.90    99.00    99.00
 8  7 14  2    15.0 1     0.0     0.00    21.30    99.00    99.00
 8  7 14  3    15.0 1   348.0     3.10    20.60    99.00    99.00
 8  7 14  4    15.0 1   348.0     2.60    20.50    99.00    99.00
 8  7 14  5    15.0 1   354.0     2.60    20.30    99.00    99.00
 8  7 14  6    15.0 1   338.0     2.10    20.50    99.00    99.00
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 8  7 14 10    15.0 1     0.0     0.00    27.10    99.00    99.00
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 8  7 14 12    15.0 1     0.0     0.00    30.30    99.00    99.00
 8  7 14 13    15.0 1   301.0     0.50    31.60    99.00    99.00
 8  7 14 14    15.0 1   343.0     1.00    32.60    99.00    99.00
 8  7 14 15    15.0 1   358.0     2.10    33.10    99.00    99.00
 8  7 14 16    15.0 1     0.0     0.00    33.50    99.00    99.00
 8  7 14 17    15.0 1   338.0     2.60    33.30    99.00    99.00
 8  7 14 18    15.0 1   291.0     4.60    31.80    99.00    99.00
 8  7 14 19    15.0 1   272.0     5.10    27.60    99.00    99.00
 8  7 14 20    15.0 1   264.0     5.10    24.90    99.00    99.00
 8  7 14 21    15.0 1   269.0     5.10    23.00    99.00    99.00
 8  7 14 22    15.0 1   283.0     4.10    22.00    99.00    99.00
 8  7 14 23    15.0 1   312.0     2.10    21.60    99.00    99.00
 8  7 14 24    15.0 1   316.0     1.50    21.30    99.00    99.00
 8  7 15  1    15.0 1   316.0     2.60    20.60    99.00    99.00
 8  7 15  2    15.0 1   320.0     3.10    19.80    99.00    99.00
 8  7 15  3    15.0 1   320.0     2.60    19.40    99.00    99.00
 8  7 15  4    15.0 1   306.0     2.60    19.30    99.00    99.00
 8  7 15  5    15.0 1   324.0     2.60    19.10    99.00    99.00
 8  7 15  6    15.0 1   330.0     2.10    19.10    99.00    99.00
 8  7 15  7    15.0 1     5.0     1.50    20.00    99.00    99.00
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 8  7 15  9    15.0 1     0.0     0.00    22.90    99.00    99.00
 8  7 15 10    15.0 1     0.0     0.00    24.40    99.00    99.00
 8  7 15 11    15.0 1     0.0     0.00    25.90    99.00    99.00
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 8  7 15 12    15.0 1     0.0     0.00    27.40    99.00    99.00
 8  7 15 13    15.0 1     0.0     0.00    28.60    99.00    99.00
 8  7 15 14    15.0 1    14.0     1.00    29.80    99.00    99.00
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 8  7 15 20    15.0 1   356.0     3.60    27.90    99.00    99.00
 8  7 15 21    15.0 1   306.0     3.10    27.00    99.00    99.00
 8  7 15 22    15.0 1   279.0     4.60    24.10    99.00    99.00
 8  7 15 23    15.0 1   295.0     4.10    22.40    99.00    99.00
 8  7 15 24    15.0 1   307.0     3.60    21.60    99.00    99.00
 8  7 16  1    15.0 1   316.0     3.60    21.10    99.00    99.00
 8  7 16  2    15.0 1   338.0     3.10    20.40    99.00    99.00
 8  7 16  3    15.0 1   350.0     3.10    19.60    99.00    99.00
 8  7 16  4    15.0 1   349.0     2.60    18.90    99.00    99.00
 8  7 16  5    15.0 1   351.0     2.10    18.30    99.00    99.00
 8  7 16  6    15.0 1   353.0     2.10    18.10    99.00    99.00
 8  7 16  7    15.0 1     5.0     1.50    19.00    99.00    99.00
 8  7 16  8    15.0 1     0.0     0.00    20.90    99.00    99.00
 8  7 16  9    15.0 1     0.0     0.00    23.10    99.00    99.00
 8  7 16 10    15.0 1     0.0     0.00    25.10    99.00    99.00
 8  7 16 11    15.0 1   299.0     0.50    27.00    99.00    99.00
 8  7 16 12    15.0 1     0.0     0.00    28.50    99.00    99.00
 8  7 16 13    15.0 1   306.0     0.50    30.00    99.00    99.00
 8  7 16 14    15.0 1   345.0     0.50    31.10    99.00    99.00
 8  7 16 15    15.0 1   356.0     1.50    31.90    99.00    99.00
 8  7 16 16    15.0 1     7.0     2.60    32.10    99.00    99.00
 8  7 16 17    15.0 1    16.0     2.60    31.80    99.00    99.00
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 8  7 16 22    15.0 1   270.0     4.10    24.80    99.00    99.00
 8  7 16 23    15.0 1   278.0     3.60    23.80    99.00    99.00
 8  7 16 24    15.0 1   283.0     3.60    23.40    99.00    99.00
 8  7 17  1    15.0 1   303.0     3.60    22.90    99.00    99.00
 8  7 17  2    15.0 1   332.0     3.60    22.30    99.00    99.00
 8  7 17  3    15.0 1   352.0     3.10    21.40    99.00    99.00
 8  7 17  4    15.0 1   351.0     3.10    20.60    99.00    99.00
 8  7 17  5    15.0 1   354.0     2.60    20.00    99.00    99.00
 8  7 17  6    15.0 1   347.0     1.50    19.80    99.00    99.00
 8  7 17  7    15.0 1   356.0     1.50    21.10    99.00    99.00
 8  7 17  8    15.0 1     0.0     0.00    23.10    99.00    99.00
 8  7 17  9    15.0 1     0.0     0.00    25.00    99.00    99.00
 8  7 17 10    15.0 1     0.0     0.00    26.60    99.00    99.00
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 8  7 17 13    15.0 1     0.0     0.00    31.00    99.00    99.00
 8  7 17 14    15.0 1     0.0     0.00    31.90    99.00    99.00
 8  7 17 15    15.0 1    25.0     1.00    32.50    99.00    99.00
 8  7 17 16    15.0 1    23.0     2.10    32.60    99.00    99.00
 8  7 17 17    15.0 1    22.0     2.60    32.40    99.00    99.00
 8  7 17 18    15.0 1    24.0     2.60    32.00    99.00    99.00
 8  7 17 19    15.0 1    14.0     3.10    31.10    99.00    99.00
 8  7 17 20    15.0 1   354.0     3.10    30.00    99.00    99.00
 8  7 17 21    15.0 1   321.0     2.60    29.00    99.00    99.00
 8  7 17 22    15.0 1   295.0     3.60    27.30    99.00    99.00
 8  7 17 23    15.0 1   287.0     3.60    25.60    99.00    99.00
 8  7 17 24    15.0 1   317.0     3.60    24.60    99.00    99.00
 8  7 18  1    15.0 1   354.0     3.60    23.50    99.00    99.00
 8  7 18  2    15.0 1    15.0     3.10    22.40    99.00    99.00
 8  7 18  3    15.0 1     8.0     3.10    21.50    99.00    99.00
 8  7 18  4    15.0 1     7.0     2.60    20.80    99.00    99.00
 8  7 18  5    15.0 1    15.0     2.10    20.10    99.00    99.00
 8  7 18  6    15.0 1     0.0     0.00    20.00    99.00    99.00
 8  7 18  7    15.0 1     0.0     0.00    21.10    99.00    99.00
 8  7 18  8    15.0 1     0.0     0.00    22.90    99.00    99.00
 8  7 18  9    15.0 1     0.0     0.00    24.80    99.00    99.00
 8  7 18 10    15.0 1     0.0     0.00    26.50    99.00    99.00
 8  7 18 11    15.0 1     0.0     0.00    28.10    99.00    99.00
 8  7 18 12    15.0 1     0.0     0.00    29.60    99.00    99.00
 8  7 18 13    15.0 1     0.0     0.00    30.80    99.00    99.00
 8  7 18 14    15.0 1   350.0     0.50    31.60    99.00    99.00
 8  7 18 15    15.0 1    15.0     1.50    32.30    99.00    99.00
 8  7 18 16    15.0 1    11.0     2.10    32.50    99.00    99.00
```

8	7	18	17	15.0	1	18.0	2.60	32.30	99.00	99.00
8	7	18	18	15.0	1	21.0	1.50	32.00	99.00	99.00
8	7	18	19	15.0	1	8.0	1.50	31.00	99.00	99.00
8	7	18	20	15.0	1	287.0	1.50	29.80	99.00	99.00
8	7	18	21	15.0	1	270.0	5.10	26.60	99.00	99.00
8	7	18	22	15.0	1	266.0	5.10	23.10	99.00	99.00
8	7	18	23	15.0	1	274.0	4.10	22.10	99.00	99.00
8	7	18	24	15.0	1	274.0	3.60	21.40	99.00	99.00
8	7	19	1	15.0	1	281.0	2.10	21.00	99.00	99.00
8	7	19	2	15.0	1	308.0	1.50	20.80	99.00	99.00
8	7	19	3	15.0	1	310.0	1.00	20.60	99.00	99.00
8	7	19	4	15.0	1	302.0	1.00	20.30	99.00	99.00
8	7	19	5	15.0	1	305.0	1.00	20.00	99.00	99.00
8	7	19	6	15.0	1	310.0	1.00	19.90	99.00	99.00
8	7	19	7	15.0	1	333.0	1.50	21.30	99.00	99.00
8	7	19	8	15.0	1	0.0	0.00	23.00	99.00	99.00
8	7	19	9	15.0	1	0.0	0.00	24.60	99.00	99.00
8	7	19	10	15.0	1	0.0	0.00	26.40	99.00	99.00
8	7	19	11	15.0	1	0.0	0.00	28.10	99.00	99.00
8	7	19	12	15.0	1	0.0	0.00	29.80	99.00	99.00
8	7	19	13	15.0	1	318.0	0.50	31.10	99.00	99.00
8	7	19	14	15.0	1	341.0	1.00	32.30	99.00	99.00
8	7	19	15	15.0	1	346.0	1.50	32.90	99.00	99.00
8	7	19	16	15.0	1	0.0	0.00	33.10	99.00	99.00
8	7	19	17	15.0	1	7.0	2.60	32.80	99.00	99.00
8	7	19	18	15.0	1	344.0	3.10	32.40	99.00	99.00
8	7	19	19	15.0	1	293.0	5.10	29.60	99.00	99.00
8	7	19	20	15.0	1	274.0	5.10	25.40	99.00	99.00
8	7	19	21	15.0	1	275.0	5.10	23.30	99.00	99.00
8	7	19	22	15.0	1	271.0	4.10	22.00	99.00	99.00
8	7	19	23	15.0	1	295.0	2.60	21.30	99.00	99.00
8	7	19	24	15.0	1	334.0	2.10	21.00	99.00	99.00
8	7	20	1	15.0	1	358.0	3.10	20.60	99.00	99.00
8	7	20	2	15.0	1	357.0	3.60	19.60	99.00	99.00
8	7	20	3	15.0	1	353.0	3.60	19.10	99.00	99.00
8	7	20	4	15.0	1	342.0	3.60	18.80	99.00	99.00
8	7	20	5	15.0	1	345.0	3.10	18.50	99.00	99.00
8	7	20	6	15.0	1	344.0	3.10	18.80	99.00	99.00
8	7	20	7	15.0	1	333.0	2.60	20.60	99.00	99.00
8	7	20	8	15.0	1	333.0	1.50	22.40	99.00	99.00
8	7	20	9	15.0	1	325.0	0.50	24.10	99.00	99.00
8	7	20	10	15.0	1	0.0	0.00	26.10	99.00	99.00
8	7	20	11	15.0	1	0.0	0.00	28.00	99.00	99.00
8	7	20	12	15.0	1	0.0	0.00	29.60	99.00	99.00
8	7	20	13	15.0	1	318.0	0.50	31.10	99.00	99.00
8	7	20	14	15.0	1	0.0	0.00	32.00	99.00	99.00
8	7	20	15	15.0	1	15.0	1.50	32.60	99.00	99.00
8	7	20	16	15.0	1	15.0	2.60	32.80	99.00	99.00
8	7	20	17	15.0	1	346.0	2.60	32.40	99.00	99.00
8	7	20	18	15.0	1	301.0	4.10	31.10	99.00	99.00
8	7	20	19	15.0	1	268.0	5.10	26.60	99.00	99.00
8	7	20	20	15.0	1	269.0	5.10	23.90	99.00	99.00
8	7	20	21	15.0	1	266.0	5.10	22.10	99.00	99.00
8	7	20	22	15.0	1	275.0	4.10	21.00	99.00	99.00
8	7	20	23	15.0	1	258.0	1.50	20.60	99.00	99.00
8	7	20	24	15.0	1	107.0	0.50	20.60	99.00	99.00
8	7	21	1	15.0	1	339.0	0.50	20.40	99.00	99.00
8	7	21	2	15.0	1	319.0	1.00	20.10	99.00	99.00
8	7	21	3	15.0	1	326.0	1.50	19.90	99.00	99.00
8	7	21	4	15.0	1	327.0	1.50	19.60	99.00	99.00
8	7	21	5	15.0	1	340.0	1.50	19.10	99.00	99.00
8	7	21	6	15.0	1	9.0	1.50	18.90	99.00	99.00
8	7	21	7	15.0	1	0.0	0.00	19.50	99.00	99.00
8	7	21	8	15.0	1	350.0	1.00	20.60	99.00	99.00
8	7	21	9	15.0	1	327.0	0.50	22.10	99.00	99.00
8	7	21	10	15.0	1	0.0	0.00	23.60	99.00	99.00
8	7	21	11	15.0	1	0.0	0.00	25.30	99.00	99.00
8	7	21	12	15.0	1	329.0	0.50	26.90	99.00	99.00
8	7	21	13	15.0	1	340.0	1.50	28.10	99.00	99.00
8	7	21	14	15.0	1	355.0	2.10	29.00	99.00	99.00
8	7	21	15	15.0	1	2.0	2.60	29.50	99.00	99.00
8	7	21	16	15.0	1	359.0	3.10	29.60	99.00	99.00
8	7	21	17	15.0	1	2.0	3.60	29.40	99.00	99.00
8	7	21	18	15.0	1	3.0	3.10	29.00	99.00	99.00
8	7	21	19	15.0	1	347.0	3.60	28.00	99.00	99.00
8	7	21	20	15.0	1	340.0	4.10	26.50	99.00	99.00
8	7	21	21	15.0	1	329.0	4.10	24.60	99.00	99.00

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 8  7 21 22    15.0 1   325.0     3.60    23.30    99.00    99.00
 8  7 21 23    15.0 1   312.0     3.60    22.10    99.00    99.00
 8  7 21 24    15.0 1   335.0     3.10    21.10    99.00    99.00
 8  7 22  1    15.0 1   349.0     3.10    20.10    99.00    99.00
 8  7 22  2    15.0 1   359.0     3.10    19.10    99.00    99.00
 8  7 22  3    15.0 1   358.0     2.60    18.40    99.00    99.00
 8  7 22  4    15.0 1   357.0     2.10    17.80    99.00    99.00
 8  7 22  5    15.0 1     4.0     1.50    17.10    99.00    99.00
 8  7 22  6    15.0 1     8.0     2.10    17.00    99.00    99.00
 8  7 22  7    15.0 1    15.0     1.50    17.80    99.00    99.00
 8  7 22  8    15.0 1     0.0     0.00    19.60    99.00    99.00
 8  7 22  9    15.0 1     0.0     0.00    21.50    99.00    99.00
 8  7 22 10    15.0 1     0.0     0.00    23.60    99.00    99.00
 8  7 22 11    15.0 1     0.0     0.00    25.40    99.00    99.00
 8  7 22 12    15.0 1     0.0     0.00    27.10    99.00    99.00
 8  7 22 13    15.0 1   345.0     0.50    28.50    99.00    99.00
 8  7 22 14    15.0 1   355.0     1.50    29.50    99.00    99.00
 8  7 22 15    15.0 1   354.0     2.10    30.00    99.00    99.00
 8  7 22 16    15.0 1     5.0     2.10    30.30    99.00    99.00
 8  7 22 17    15.0 1     0.0     0.00    30.10    99.00    99.00
 8  7 22 18    15.0 1     0.0     0.00    29.90    99.00    99.00
 8  7 22 19    15.0 1     0.0     0.00    29.00    99.00    99.00
 8  7 22 20    15.0 1   349.0     2.10    27.80    99.00    99.00
 8  7 22 21    15.0 1   289.0     3.10    26.60    99.00    99.00
 8  7 22 22    15.0 1   279.0     4.60    23.90    99.00    99.00
 8  7 22 23    15.0 1   283.0     3.60    22.30    99.00    99.00
 8  7 22 24    15.0 1   290.0     2.60    21.60    99.00    99.00
 8  7 23  1    15.0 1   295.0     2.10    21.10    99.00    99.00
 8  7 23  2    15.0 1   299.0     1.00    20.60    99.00    99.00
 8  7 23  3    15.0 1   319.0     0.50    20.30    99.00    99.00
 8  7 23  4    15.0 1     0.0     0.00    19.90    99.00    99.00
 8  7 23  5    15.0 1   240.0     0.50    19.50    99.00    99.00
 8  7 23  6    15.0 1   245.0     1.00    19.40    99.00    99.00
 8  7 23  7    15.0 1   276.0     1.50    21.30    99.00    99.00
 8  7 23  8    15.0 1     0.0     0.00    23.10    99.00    99.00
 8  7 23  9    15.0 1     0.0     0.00    25.10    99.00    99.00
 8  7 23 10    15.0 1     0.0     0.00    26.60    99.00    99.00
 8  7 23 11    15.0 1     0.0     0.00    28.30    99.00    99.00
 8  7 23 12    15.0 1     0.0     0.00    29.60    99.00    99.00
 8  7 23 13    15.0 1     0.0     0.00    30.60    99.00    99.00
 8  7 23 14    15.0 1     0.0     0.00    31.50    99.00    99.00
 8  7 23 15    15.0 1    46.0     1.00    31.90    99.00    99.00
 8  7 23 16    15.0 1    48.0     1.00    32.10    99.00    99.00
 8  7 23 17    15.0 1    60.0     1.50    31.90    99.00    99.00
 8  7 23 18    15.0 1    16.0     0.50    31.40    99.00    99.00
 8  7 23 19    15.0 1   283.0     3.10    30.60    99.00    99.00
 8  7 23 20    15.0 1   278.0     5.10    26.40    99.00    99.00
 8  7 23 21    15.0 1   275.0     4.60    24.10    99.00    99.00
 8  7 23 22    15.0 1   274.0     3.60    23.40    99.00    99.00
 8  7 23 23    15.0 1   280.0     2.60    22.90    99.00    99.00
 8  7 23 24    15.0 1   279.0     2.10    22.40    99.00    99.00
 8  7 24  1    15.0 1   289.0     1.50    21.80    99.00    99.00
 8  7 24  2    15.0 1   348.0     0.50    21.40    99.00    99.00
 8  7 24  3    15.0 1   239.0     0.50    21.10    99.00    99.00
 8  7 24  4    15.0 1   253.0     1.00    21.00    99.00    99.00
 8  7 24  5    15.0 1   265.0     1.00    20.60    99.00    99.00
 8  7 24  6    15.0 1   264.0     1.00    20.50    99.00    99.00
 8  7 24  7    15.0 1   319.0     1.00    21.90    99.00    99.00
 8  7 24  8    15.0 1     0.0     0.00    23.50    99.00    99.00
 8  7 24  9    15.0 1     0.0     0.00    25.00    99.00    99.00
 8  7 24 10    15.0 1     0.0     0.00    26.60    99.00    99.00
 8  7 24 11    15.0 1     0.0     0.00    28.30    99.00    99.00
 8  7 24 12    15.0 1     0.0     0.00    29.90    99.00    99.00
 8  7 24 13    15.0 1     0.0     0.00    31.30    99.00    99.00
 8  7 24 14    15.0 1   336.0     0.50    32.30    99.00    99.00
 8  7 24 15    15.0 1     3.0     1.00    32.90    99.00    99.00
 8  7 24 16    15.0 1    13.0     2.10    33.10    99.00    99.00
 8  7 24 17    15.0 1    12.0     2.60    32.60    99.00    99.00
 8  7 24 18    15.0 1    19.0     3.10    32.00    99.00    99.00
 8  7 24 19    15.0 1    13.0     3.60    30.90    99.00    99.00
 8  7 24 20    15.0 1   306.0     3.10    29.60    99.00    99.00
 8  7 24 21    15.0 1   272.0     5.10    26.50    99.00    99.00
 8  7 24 22    15.0 1   268.0     4.60    23.80    99.00    99.00
 8  7 24 23    15.0 1   271.0     3.10    23.40    99.00    99.00
 8  7 24 24    15.0 1   285.0     3.10    23.40    99.00    99.00
 8  7 25  1    15.0 1   300.0     3.60    23.10    99.00    99.00
 8  7 25  2    15.0 1   335.0     3.60    22.40    99.00    99.00
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 8  7 25  3    15.0 1   353.0     2.60    21.40    99.00    99.00
 8  7 25  4    15.0 1   356.0     2.10    20.60    99.00    99.00
 8  7 25  5    15.0 1   358.0     1.50    20.10    99.00    99.00
 8  7 25  6    15.0 1   336.0     1.00    19.80    99.00    99.00
 8  7 25  7    15.0 1   347.0     2.10    20.80    99.00    99.00
 8  7 25  8    15.0 1   339.0     0.50    22.50    99.00    99.00
 8  7 25  9    15.0 1     0.0     0.00    24.90    99.00    99.00
 8  7 25 10    15.0 1     0.0     0.00    26.60    99.00    99.00
 8  7 25 11    15.0 1     0.0     0.00    28.60    99.00    99.00
 8  7 25 12    15.0 1     0.0     0.00    30.10    99.00    99.00
 8  7 25 13    15.0 1   343.0     1.00    31.30    99.00    99.00
 8  7 25 14    15.0 1   338.0     1.50    32.10    99.00    99.00
 8  7 25 15    15.0 1   353.0     2.10    32.60    99.00    99.00
 8  7 25 16    15.0 1   359.0     2.60    32.80    99.00    99.00
 8  7 25 17    15.0 1     0.0     0.00    32.40    99.00    99.00
 8  7 25 18    15.0 1     0.0     0.00    31.90    99.00    99.00
 8  7 25 19    15.0 1     0.0     0.00    30.80    99.00    99.00
 8  7 25 20    15.0 1   348.0     2.60    29.50    99.00    99.00
 8  7 25 21    15.0 1   329.0     2.60    28.30    99.00    99.00
 8  7 25 22    15.0 1   320.0     3.60    27.00    99.00    99.00
 8  7 25 23    15.0 1   319.0     3.60    25.60    99.00    99.00
 8  7 25 24    15.0 1   317.0     3.60    24.60    99.00    99.00
 8  7 26  1    15.0 1   330.0     3.60    23.80    99.00    99.00
 8  7 26  2    15.0 1   340.0     3.60    23.00    99.00    99.00
 8  7 26  3    15.0 1   346.0     3.10    22.10    99.00    99.00
 8  7 26  4    15.0 1   337.0     2.10    21.40    99.00    99.00
 8  7 26  5    15.0 1   330.0     1.50    20.90    99.00    99.00
 8  7 26  6    15.0 1   327.0     1.00    20.50    99.00    99.00
 8  7 26  7    15.0 1   345.0     2.60    21.50    99.00    99.00
 8  7 26  8    15.0 1   351.0     0.50    23.00    99.00    99.00
 8  7 26  9    15.0 1     0.0     0.00    25.10    99.00    99.00
 8  7 26 10    15.0 1     0.0     0.00    27.00    99.00    99.00
 8  7 26 11    15.0 1     0.0     0.00    28.80    99.00    99.00
 8  7 26 12    15.0 1     0.0     0.00    30.30    99.00    99.00
 8  7 26 13    15.0 1   325.0     0.50    31.60    99.00    99.00
 8  7 26 14    15.0 1   344.0     1.00    32.50    99.00    99.00
 8  7 26 15    15.0 1   350.0     1.50    33.10    99.00    99.00
 8  7 26 16    15.0 1     0.0     0.00    33.30    99.00    99.00
 8  7 26 17    15.0 1     9.0     2.60    32.60    99.00    99.00
 8  7 26 18    15.0 1    23.0     3.10    32.10    99.00    99.00
 8  7 26 19    15.0 1     9.0     2.60    31.10    99.00    99.00
 8  7 26 20    15.0 1   314.0     2.60    29.90    99.00    99.00
 8  7 26 21    15.0 1   266.0     5.10    27.80    99.00    99.00
 8  7 26 22    15.0 1   268.0     4.60    24.60    99.00    99.00
 8  7 26 23    15.0 1   294.0     4.10    23.40    99.00    99.00
 8  7 26 24    15.0 1   307.0     3.10    22.80    99.00    99.00
 8  7 27  1    15.0 1   346.0     3.10    22.50    99.00    99.00
 8  7 27  2    15.0 1    10.0     3.10    21.90    99.00    99.00
 8  7 27  3    15.0 1     0.0     0.00    21.30    99.00    99.00
 8  7 27  4    15.0 1     0.0     0.00    20.60    99.00    99.00
 8  7 27  5    15.0 1     0.0     0.00    20.10    99.00    99.00
 8  7 27  6    15.0 1   351.0     1.50    19.90    99.00    99.00
 8  7 27  7    15.0 1   360.0     2.10    20.40    99.00    99.00
 8  7 27  8    15.0 1   345.0     1.00    21.90    99.00    99.00
 8  7 27  9    15.0 1   328.0     0.50    23.50    99.00    99.00
 8  7 27 10    15.0 1     0.0     0.00    25.10    99.00    99.00
 8  7 27 11    15.0 1     0.0     0.00    26.60    99.00    99.00
 8  7 27 12    15.0 1     0.0     0.00    28.40    99.00    99.00
 8  7 27 13    15.0 1   332.0     0.50    29.60    99.00    99.00
 8  7 27 14    15.0 1   337.0     1.00    30.60    99.00    99.00
 8  7 27 15    15.0 1   351.0     1.50    31.10    99.00    99.00
 8  7 27 16    15.0 1   349.0     2.10    31.60    99.00    99.00
 8  7 27 17    15.0 1     1.0     2.60    31.40    99.00    99.00
 8  7 27 18    15.0 1   359.0     2.60    30.90    99.00    99.00
 8  7 27 19    15.0 1   316.0     3.10    29.60    99.00    99.00
 8  7 27 20    15.0 1   285.0     5.10    26.40    99.00    99.00
 8  7 27 21    15.0 1   267.0     5.10    22.90    99.00    99.00
 8  7 27 22    15.0 1   270.0     4.60    21.40    99.00    99.00
 8  7 27 23    15.0 1   272.0     4.60    20.50    99.00    99.00
 8  7 27 24    15.0 1   290.0     3.60    20.10    99.00    99.00
 8  7 28  1    15.0 1   314.0     2.60    20.10    99.00    99.00
 8  7 28  2    15.0 1   342.0     3.10    19.90    99.00    99.00
 8  7 28  3    15.0 1   351.0     3.10    19.40    99.00    99.00
 8  7 28  4    15.0 1   346.0     2.60    18.60    99.00    99.00
 8  7 28  5    15.0 1   337.0     2.60    18.10    99.00    99.00
 8  7 28  6    15.0 1   341.0     2.60    17.60    99.00    99.00
 8  7 28  7    15.0 1   346.0     2.60    18.40    99.00    99.00
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 8  7 28  8    15.0 1   341.0     1.00    20.10    99.00    99.00
 8  7 28  9    15.0 1     0.0     0.00    21.90    99.00    99.00
 8  7 28 10    15.0 1     0.0     0.00    23.60    99.00    99.00
 8  7 28 11    15.0 1     0.0     0.00    25.30    99.00    99.00
 8  7 28 12    15.0 1     0.0     0.00    27.00    99.00    99.00
 8  7 28 13    15.0 1   309.0     0.50    28.10    99.00    99.00
 8  7 28 14    15.0 1   332.0     0.50    29.10    99.00    99.00
 8  7 28 15    15.0 1   348.0     1.00    29.60    99.00    99.00
 8  7 28 16    15.0 1   360.0     2.60    30.30    99.00    99.00
 8  7 28 17    15.0 1    12.0     3.10    30.10    99.00    99.00
 8  7 28 18    15.0 1    12.0     2.60    29.80    99.00    99.00
 8  7 28 19    15.0 1     0.0     0.00    28.60    99.00    99.00
 8  7 28 20    15.0 1   349.0     4.10    26.60    99.00    99.00
 8  7 28 21    15.0 1   338.0     3.60    25.00    99.00    99.00
 8  7 28 22    15.0 1   330.0     3.60    23.90    99.00    99.00
 8  7 28 23    15.0 1   315.0     3.60    22.90    99.00    99.00
 8  7 28 24    15.0 1   310.0     3.10    22.10    99.00    99.00
 8  7 29  1    15.0 1   332.0     3.10    21.40    99.00    99.00
 8  7 29  2    15.0 1   348.0     3.10    20.50    99.00    99.00
 8  7 29  3    15.0 1     0.0     0.00    19.50    99.00    99.00
 8  7 29  4    15.0 1     0.0     0.00    18.60    99.00    99.00
 8  7 29  5    15.0 1     2.0     2.10    18.00    99.00    99.00
 8  7 29  6    15.0 1   354.0     2.10    17.60    99.00    99.00
 8  7 29  7    15.0 1   358.0     2.10    18.60    99.00    99.00
 8  7 29  8    15.0 1   340.0     0.50    20.40    99.00    99.00
 8  7 29  9    15.0 1     0.0     0.00    22.40    99.00    99.00
 8  7 29 10    15.0 1     0.0     0.00    24.10    99.00    99.00
 8  7 29 11    15.0 1     0.0     0.00    25.80    99.00    99.00
 8  7 29 12    15.0 1     0.0     0.00    27.30    99.00    99.00
 8  7 29 13    15.0 1     0.0     0.00    28.40    99.00    99.00
 8  7 29 14    15.0 1   345.0     0.50    29.30    99.00    99.00
 8  7 29 15    15.0 1     0.0     0.00    30.00    99.00    99.00
 8  7 29 16    15.0 1    12.0     2.60    30.10    99.00    99.00
 8  7 29 17    15.0 1     9.0     3.10    29.90    99.00    99.00
 8  7 29 18    15.0 1    24.0     3.10    29.10    99.00    99.00
 8  7 29 19    15.0 1    14.0     3.60    28.10    99.00    99.00
 8  7 29 20    15.0 1   350.0     3.60    26.90    99.00    99.00
 8  7 29 21    15.0 1   331.0     4.10    25.50    99.00    99.00
 8  7 29 22    15.0 1   326.0     3.60    23.90    99.00    99.00
 8  7 29 23    15.0 1   327.0     3.60    22.50    99.00    99.00
 8  7 29 24    15.0 1   344.0     3.60    21.10    99.00    99.00
 8  7 30  1    15.0 1   349.0     3.10    20.10    99.00    99.00
 8  7 30  2    15.0 1     0.0     0.00    19.10    99.00    99.00
 8  7 30  3    15.0 1     8.0     2.60    18.40    99.00    99.00
 8  7 30  4    15.0 1     0.0     0.00    17.60    99.00    99.00
 8  7 30  5    15.0 1   350.0     1.50    17.10    99.00    99.00
 8  7 30  6    15.0 1   342.0     1.50    16.90    99.00    99.00
 8  7 30  7    15.0 1   355.0     1.50    17.60    99.00    99.00
 8  7 30  8    15.0 1     0.0     0.00    19.60    99.00    99.00
 8  7 30  9    15.0 1     0.0     0.00    21.60    99.00    99.00
 8  7 30 10    15.0 1     0.0     0.00    23.60    99.00    99.00
 8  7 30 11    15.0 1     0.0     0.00    25.40    99.00    99.00
 8  7 30 12    15.0 1     0.0     0.00    27.00    99.00    99.00
 8  7 30 13    15.0 1     0.0     0.00    28.50    99.00    99.00
 8  7 30 14    15.0 1   344.0     0.50    29.50    99.00    99.00
 8  7 30 15    15.0 1    10.0     1.50    30.00    99.00    99.00
 8  7 30 16    15.0 1    34.0     2.10    29.90    99.00    99.00
 8  7 30 17    15.0 1    45.0     2.60    29.50    99.00    99.00
 8  7 30 18    15.0 1    45.0     2.60    28.80    99.00    99.00
 8  7 30 19    15.0 1    16.0     1.50    27.80    99.00    99.00
 8  7 30 20    15.0 1   296.0     0.50    26.60    99.00    99.00
 8  7 30 21    15.0 1   268.0     2.60    25.90    99.00    99.00
 8  7 30 22    15.0 1   267.0     4.10    23.40    99.00    99.00
 8  7 30 23    15.0 1   267.0     4.10    21.60    99.00    99.00
 8  7 30 24    15.0 1   268.0     3.10    21.10    99.00    99.00
 8  7 31  1    15.0 1   289.0     3.10    20.90    99.00    99.00
 8  7 31  2    15.0 1   310.0     3.60    20.60    99.00    99.00
 8  7 31  3    15.0 1   319.0     3.10    20.10    99.00    99.00
 8  7 31  4    15.0 1   320.0     2.60    19.60    99.00    99.00
 8  7 31  5    15.0 1   317.0     2.60    19.10    99.00    99.00
 8  7 31  6    15.0 1   321.0     2.10    18.60    99.00    99.00
 8  7 31  7    15.0 1   349.0     1.50    19.50    99.00    99.00
 8  7 31  8    15.0 1   337.0     0.50    21.30    99.00    99.00
 8  7 31  9    15.0 1     0.0     0.00    23.00    99.00    99.00
 8  7 31 10    15.0 1     0.0     0.00    24.80    99.00    99.00
 8  7 31 11    15.0 1     0.0     0.00    26.60    99.00    99.00
 8  7 31 12    15.0 1     0.0     0.00    28.50    99.00    99.00
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 8   7 31 13     15.0 1      0.0      0.00     29.90     99.00     99.00
 8   7 31 14     15.0 1    336.0      0.50     31.00     99.00     99.00
 8   7 31 15     15.0 1    350.0      1.00     31.60     99.00     99.00
 8   7 31 16     15.0 1      0.0      0.00     31.90     99.00     99.00
 8   7 31 17     15.0 1      8.0      2.60     31.60     99.00     99.00
 8   7 31 18     15.0 1     14.0      3.10     30.90     99.00     99.00
 8   7 31 19     15.0 1    346.0      3.60     29.80     99.00     99.00
 8   7 31 20     15.0 1    289.0      4.60     27.80     99.00     99.00
 8   7 31 21     15.0 1    266.0      5.10     24.00     99.00     99.00
 8   7 31 22     15.0 1    267.0      4.60     22.10     99.00     99.00
 8   7 31 23     15.0 1    278.0      3.10     21.80     99.00     99.00
 8   7 31 24     15.0 1    289.0      3.10     21.90     99.00     99.00
 8   8  1  1     15.0 1    322.0      3.60     21.40     99.00     99.00
 8   8  1  2     15.0 1    341.0      3.60     20.50     99.00     99.00
 8   8  1  3     15.0 1    340.0      3.10     19.60     99.00     99.00
 8   8  1  4     15.0 1    354.0      2.60     18.90     99.00     99.00
 8   8  1  5     15.0 1    345.0      2.10     18.30     99.00     99.00
 8   8  1  6     15.0 1    342.0      2.10     18.00     99.00     99.00
 8   8  1  7     15.0 1    347.0      2.10     18.80     99.00     99.00
 8   8  1  8     15.0 1    352.0      0.50     20.50     99.00     99.00
 8   8  1  9     15.0 1      0.0      0.00     22.80     99.00     99.00
 8   8  1 10     15.0 1      0.0      0.00     24.60     99.00     99.00
 8   8  1 11     15.0 1      0.0      0.00     26.50     99.00     99.00
 8   8  1 12     15.0 1      0.0      0.00     28.10     99.00     99.00
 8   8  1 13     15.0 1    307.0      0.50     29.40     99.00     99.00
 8   8  1 14     15.0 1    337.0      1.00     30.10     99.00     99.00
 8   8  1 15     15.0 1      5.0      1.50     30.80     99.00     99.00
 8   8  1 16     15.0 1      0.0      0.00     31.00     99.00     99.00
 8   8  1 17     15.0 1      9.0      2.60     30.60     99.00     99.00
 8   8  1 18     15.0 1      6.0      3.10     30.10     99.00     99.00
 8   8  1 19     15.0 1      5.0      4.10     29.00     99.00     99.00
 8   8  1 20     15.0 1    347.0      4.10     26.90     99.00     99.00
 8   8  1 21     15.0 1    340.0      3.60     25.30     99.00     99.00
 8   8  1 22     15.0 1    335.0      3.10     24.60     99.00     99.00
 8   8  1 23     15.0 1    331.0      3.10     23.80     99.00     99.00
 8   8  1 24     15.0 1    343.0      3.10     22.90     99.00     99.00
 8   8  2  1     15.0 1    360.0      3.60     21.60     99.00     99.00
 8   8  2  2     15.0 1      0.0      0.00     20.60     99.00     99.00
 8   8  2  3     15.0 1     10.0      2.60     19.90     99.00     99.00
 8   8  2  4     15.0 1      0.0      0.00     19.30     99.00     99.00
 8   8  2  5     15.0 1    349.0      1.50     18.80     99.00     99.00
 8   8  2  6     15.0 1    321.0      0.50     18.50     99.00     99.00
 8   8  2  7     15.0 1    349.0      1.00     19.50     99.00     99.00
 8   8  2  8     15.0 1      0.0      0.00     21.40     99.00     99.00
 8   8  2  9     15.0 1      0.0      0.00     23.10     99.00     99.00
 8   8  2 10     15.0 1      0.0      0.00     25.10     99.00     99.00
 8   8  2 11     15.0 1      0.0      0.00     27.10     99.00     99.00
 8   8  2 12     15.0 1      0.0      0.00     28.60     99.00     99.00
 8   8  2 13     15.0 1      0.0      0.00     30.10     99.00     99.00
 8   8  2 14     15.0 1    339.0      0.50     31.40     99.00     99.00
 8   8  2 15     15.0 1    360.0      1.00     32.10     99.00     99.00
 8   8  2 16     15.0 1      3.0      2.60     32.90     99.00     99.00
 8   8  2 17     15.0 1      0.0      0.00     32.50     99.00     99.00
 8   8  2 18     15.0 1      0.0      0.00     32.10     99.00     99.00
 8   8  2 19     15.0 1      4.0      3.10     31.10     99.00     99.00
 8   8  2 20     15.0 1    341.0      3.10     29.80     99.00     99.00
 8   8  2 21     15.0 1    327.0      3.10     28.60     99.00     99.00
 8   8  2 22     15.0 1    317.0      3.60     27.40     99.00     99.00
 8   8  2 23     15.0 1    317.0      3.60     26.30     99.00     99.00
 8   8  2 24     15.0 1    330.0      3.60     25.30     99.00     99.00
 8   8  3  1     15.0 1    346.0      3.60     23.90     99.00     99.00
 8   8  3  2     15.0 1    359.0      3.60     22.60     99.00     99.00
 8   8  3  3     15.0 1    357.0      3.10     21.80     99.00     99.00
 8   8  3  4     15.0 1    348.0      3.10     21.10     99.00     99.00
 8   8  3  5     15.0 1    349.0      2.60     20.50     99.00     99.00
 8   8  3  6     15.0 1    352.0      1.50     20.10     99.00     99.00
 8   8  3  7     15.0 1    347.0      2.60     21.10     99.00     99.00
 8   8  3  8     15.0 1    353.0      1.00     22.60     99.00     99.00
 8   8  3  9     15.0 1      0.0      0.00     25.00     99.00     99.00
 8   8  3 10     15.0 1      0.0      0.00     26.90     99.00     99.00
 8   8  3 11     15.0 1      0.0      0.00     28.60     99.00     99.00
 8   8  3 12     15.0 1      0.0      0.00     30.10     99.00     99.00
 8   8  3 13     15.0 1    309.0      0.50     31.40     99.00     99.00
 8   8  3 14     15.0 1    327.0      1.00     32.10     99.00     99.00
 8   8  3 15     15.0 1    353.0      1.50     32.60     99.00     99.00
 8   8  3 16     15.0 1      0.0      0.00     32.80     99.00     99.00
 8   8  3 17     15.0 1      8.0      2.60     32.50     99.00     99.00
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 8  8  3 18    15.0 1    12.0     2.60    32.00    99.00    99.00
 8  8  3 19    15.0 1     2.0     3.10    30.90    99.00    99.00
 8  8  3 20    15.0 1   332.0     2.60    29.80    99.00    99.00
 8  8  3 21    15.0 1   295.0     4.10    28.30    99.00    99.00
 8  8  3 22    15.0 1   285.0     4.60    25.30    99.00    99.00
 8  8  3 23    15.0 1   283.0     3.10    24.00    99.00    99.00
 8  8  3 24    15.0 1   309.0     3.10    23.80    99.00    99.00
 8  8  4  1    15.0 1   340.0     3.10    23.30    99.00    99.00
 8  8  4  2    15.0 1    12.0     3.10    22.30    99.00    99.00
 8  8  4  3    15.0 1    24.0     2.60    21.30    99.00    99.00
 8  8  4  4    15.0 1    15.0     2.10    20.60    99.00    99.00
 8  8  4  5    15.0 1     0.0     0.00    19.90    99.00    99.00
 8  8  4  6    15.0 1   355.0     1.50    19.50    99.00    99.00
 8  8  4  7    15.0 1   356.0     2.60    19.60    99.00    99.00
 8  8  4  8    15.0 1     1.0     1.50    20.60    99.00    99.00
 8  8  4  9    15.0 1     0.0     0.00    22.40    99.00    99.00
 8  8  4 10    15.0 1     0.0     0.00    24.30    99.00    99.00
 8  8  4 11    15.0 1     0.0     0.00    25.90    99.00    99.00
 8  8  4 12    15.0 1     0.0     0.00    27.30    99.00    99.00
 8  8  4 13    15.0 1     3.0     0.50    28.50    99.00    99.00
 8  8  4 14    15.0 1     2.0     0.50    29.40    99.00    99.00
 8  8  4 15    15.0 1   352.0     0.50    29.90    99.00    99.00
 8  8  4 16    15.0 1   340.0     1.00    30.00    99.00    99.00
 8  8  4 17    15.0 1   316.0     0.50    30.00    99.00    99.00
 8  8  4 18    15.0 1     0.0     0.00    29.50    99.00    99.00
 8  8  4 19    15.0 1   271.0     0.50    28.60    99.00    99.00
 8  8  4 20    15.0 1   280.0     0.50    27.90    99.00    99.00
 8  8  4 21    15.0 1   288.0     1.00    27.30    99.00    99.00
 8  8  4 22    15.0 1   290.0     3.60    26.60    99.00    99.00
 8  8  4 23    15.0 1   287.0     4.10    24.50    99.00    99.00
 8  8  4 24    15.0 1   290.0     3.60    23.40    99.00    99.00
 8  8  5  1    15.0 1   282.0     3.10    22.80    99.00    99.00
 8  8  5  2    15.0 1   295.0     3.10    22.50    99.00    99.00
 8  8  5  3    15.0 1   298.0     3.10    22.10    99.00    99.00
 8  8  5  4    15.0 1   298.0     3.10    21.90    99.00    99.00
 8  8  5  5    15.0 1   314.0     2.60    21.60    99.00    99.00
 8  8  5  6    15.0 1   316.0     2.10    21.30    99.00    99.00
 8  8  5  7    15.0 1   353.0     2.10    21.60    99.00    99.00
 8  8  5  8    15.0 1   356.0     0.50    23.30    99.00    99.00
 8  8  5  9    15.0 1     0.0     0.00    25.40    99.00    99.00
 8  8  5 10    15.0 1     0.0     0.00    27.40    99.00    99.00
 8  8  5 11    15.0 1     0.0     0.00    29.10    99.00    99.00
 8  8  5 12    15.0 1     0.0     0.00    30.60    99.00    99.00
 8  8  5 13    15.0 1   306.0     0.50    32.00    99.00    99.00
 8  8  5 14    15.0 1   322.0     0.50    33.00    99.00    99.00
 8  8  5 15    15.0 1   336.0     1.00    33.60    99.00    99.00
 8  8  5 16    15.0 1   350.0     2.10    33.80    99.00    99.00
 8  8  5 17    15.0 1     5.0     2.60    33.40    99.00    99.00
 8  8  5 18    15.0 1     0.0     0.00    32.50    99.00    99.00
 8  8  5 19    15.0 1    14.0     4.10    30.90    99.00    99.00
 8  8  5 20    15.0 1   318.0     4.10    29.90    99.00    99.00
 8  8  5 21    15.0 1   276.0     5.10    26.40    99.00    99.00
 8  8  5 22    15.0 1   276.0     4.60    24.10    99.00    99.00
 8  8  5 23    15.0 1   294.0     4.10    23.10    99.00    99.00
 8  8  5 24    15.0 1   298.0     3.10    22.60    99.00    99.00
 8  8  6  1    15.0 1   331.0     2.60    22.40    99.00    99.00
 8  8  6  2    15.0 1   342.0     2.60    22.10    99.00    99.00
 8  8  6  3    15.0 1   331.0     2.60    21.90    99.00    99.00
 8  8  6  4    15.0 1   331.0     2.60    21.50    99.00    99.00
 8  8  6  5    15.0 1   348.0     2.10    21.00    99.00    99.00
 8  8  6  6    15.0 1     1.0     1.50    20.50    99.00    99.00
 8  8  6  7    15.0 1   357.0     2.10    21.10    99.00    99.00
 8  8  6  8    15.0 1   350.0     0.50    22.80    99.00    99.00
 8  8  6  9    15.0 1     0.0     0.00    25.00    99.00    99.00
 8  8  6 10    15.0 1     0.0     0.00    26.80    99.00    99.00
 8  8  6 11    15.0 1     0.0     0.00    28.90    99.00    99.00
 8  8  6 12    15.0 1     0.0     0.00    30.60    99.00    99.00
 8  8  6 13    15.0 1   316.0     0.50    32.10    99.00    99.00
 8  8  6 14    15.0 1   327.0     1.00    33.10    99.00    99.00
 8  8  6 15    15.0 1   354.0     1.50    33.60    99.00    99.00
 8  8  6 16    15.0 1   356.0     2.60    33.90    99.00    99.00
 8  8  6 17    15.0 1     0.0     0.00    33.30    99.00    99.00
 8  8  6 18    15.0 1    11.0     3.10    32.50    99.00    99.00
 8  8  6 19    15.0 1     0.0     0.00    31.40    99.00    99.00
 8  8  6 20    15.0 1   286.0     5.10    29.80    99.00    99.00
 8  8  6 21    15.0 1   268.0     5.70    25.10    99.00    99.00
 8  8  6 22    15.0 1   271.0     4.60    23.40    99.00    99.00
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 8  8  6 23    15.0 1   276.0     3.60    22.50    99.00    99.00
 8  8  6 24    15.0 1   296.0     3.10    21.90    99.00    99.00
 8  8  7  1    15.0 1   317.0     2.10    21.50    99.00    99.00
 8  8  7  2    15.0 1   330.0     2.60    21.30    99.00    99.00
 8  8  7  3    15.0 1   327.0     2.60    21.10    99.00    99.00
 8  8  7  4    15.0 1   334.0     2.10    20.80    99.00    99.00
 8  8  7  5    15.0 1   342.0     2.10    20.40    99.00    99.00
 8  8  7  6    15.0 1   347.0     1.50    20.00    99.00    99.00
 8  8  7  7    15.0 1   356.0     2.10    20.60    99.00    99.00
 8  8  7  8    15.0 1   349.0     0.50    22.30    99.00    99.00
 8  8  7  9    15.0 1     0.0     0.00    24.10    99.00    99.00
 8  8  7 10    15.0 1     0.0     0.00    26.00    99.00    99.00
 8  8  7 11    15.0 1     0.0     0.00    28.00    99.00    99.00
 8  8  7 12    15.0 1     0.0     0.00    29.60    99.00    99.00
 8  8  7 13    15.0 1   318.0     0.50    31.00    99.00    99.00
 8  8  7 14    15.0 1   345.0     1.50    32.00    99.00    99.00
 8  8  7 15    15.0 1   351.0     2.10    32.60    99.00    99.00
 8  8  7 16    15.0 1     2.0     2.60    33.30    99.00    99.00
 8  8  7 17    15.0 1    11.0     2.60    32.90    99.00    99.00
 8  8  7 18    15.0 1   338.0     3.10    32.60    99.00    99.00
 8  8  7 19    15.0 1   288.0     5.10    29.90    99.00    99.00
 8  8  7 20    15.0 1   270.0     5.10    25.40    99.00    99.00
 8  8  7 21    15.0 1   267.0     5.70    23.10    99.00    99.00
 8  8  7 22    15.0 1   281.0     5.10    21.60    99.00    99.00
 8  8  7 23    15.0 1   288.0     3.60    20.90    99.00    99.00
 8  8  7 24    15.0 1   318.0     2.10    20.50    99.00    99.00
 8  8  8  1    15.0 1   327.0     2.60    20.10    99.00    99.00
 8  8  8  2    15.0 1   322.0     2.60    19.60    99.00    99.00
 8  8  8  3    15.0 1   315.0     2.60    19.10    99.00    99.00
 8  8  8  4    15.0 1   311.0     2.60    18.90    99.00    99.00
 8  8  8  5    15.0 1   318.0     2.60    18.60    99.00    99.00
 8  8  8  6    15.0 1   334.0     2.10    18.40    99.00    99.00
 8  8  8  7    15.0 1     3.0     1.50    19.00    99.00    99.00
 8  8  8  8    15.0 1   344.0     0.50    20.50    99.00    99.00
 8  8  8  9    15.0 1     0.0     0.00    22.10    99.00    99.00
 8  8  8 10    15.0 1     0.0     0.00    23.90    99.00    99.00
 8  8  8 11    15.0 1   333.0     0.50    25.50    99.00    99.00
 8  8  8 12    15.0 1   340.0     1.00    26.90    99.00    99.00
 8  8  8 13    15.0 1   343.0     1.50    28.10    99.00    99.00
 8  8  8 14    15.0 1   351.0     2.10    29.30    99.00    99.00
 8  8  8 15    15.0 1   355.0     3.10    29.80    99.00    99.00
 8  8  8 16    15.0 1     4.0     3.10    29.90    99.00    99.00
 8  8  8 17    15.0 1     0.0     0.00    29.60    99.00    99.00
 8  8  8 18    15.0 1     0.0     0.00    29.30    99.00    99.00
 8  8  8 19    15.0 1   353.0     3.10    28.30    99.00    99.00
 8  8  8 20    15.0 1   317.0     4.10    27.00    99.00    99.00
 8  8  8 21    15.0 1   279.0     4.60    24.10    99.00    99.00
 8  8  8 22    15.0 1   282.0     4.10    21.80    99.00    99.00
 8  8  8 23    15.0 1   294.0     3.10    20.60    99.00    99.00
 8  8  8 24    15.0 1   308.0     2.60    20.30    99.00    99.00
 8  8  9  1    15.0 1   345.0     3.10    19.90    99.00    99.00
 8  8  9  2    15.0 1   352.0     3.10    19.30    99.00    99.00
 8  8  9  3    15.0 1   357.0     2.60    18.60    99.00    99.00
 8  8  9  4    15.0 1   353.0     2.10    18.00    99.00    99.00
 8  8  9  5    15.0 1   350.0     2.10    17.40    99.00    99.00
 8  8  9  6    15.0 1   348.0     1.50    16.90    99.00    99.00
 8  8  9  7    15.0 1     2.0     2.10    17.30    99.00    99.00
 8  8  9  8    15.0 1   345.0     0.50    19.10    99.00    99.00
 8  8  9  9    15.0 1     0.0     0.00    20.80    99.00    99.00
 8  8  9 10    15.0 1     0.0     0.00    22.80    99.00    99.00
 8  8  9 11    15.0 1     0.0     0.00    24.50    99.00    99.00
 8  8  9 12    15.0 1     0.0     0.00    26.10    99.00    99.00
 8  8  9 13    15.0 1   324.0     0.50    27.60    99.00    99.00
 8  8  9 14    15.0 1   340.0     1.00    28.60    99.00    99.00
 8  8  9 15    15.0 1   348.0     1.50    29.30    99.00    99.00
 8  8  9 16    15.0 1    13.0     2.60    29.50    99.00    99.00
 8  8  9 17    15.0 1    22.0     2.60    29.10    99.00    99.00
 8  8  9 18    15.0 1    21.0     3.10    28.30    99.00    99.00
 8  8  9 19    15.0 1    14.0     3.60    27.10    99.00    99.00
 8  8  9 20    15.0 1   343.0     3.60    25.80    99.00    99.00
 8  8  9 21    15.0 1   318.0     4.10    23.80    99.00    99.00
 8  8  9 22    15.0 1   311.0     3.60    22.10    99.00    99.00
 8  8  9 23    15.0 1   301.0     3.10    21.10    99.00    99.00
 8  8  9 24    15.0 1   308.0     3.10    20.30    99.00    99.00
 8  8 10  1    15.0 1   334.0     3.10    19.60    99.00    99.00
 8  8 10  2    15.0 1   348.0     2.60    18.90    99.00    99.00
 8  8 10  3    15.0 1     0.0     0.00    18.10    99.00    99.00
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 8   8 10   4     15.0 1     11.0      2.10     17.50     99.00     99.00
 8   8 10   5     15.0 1     13.0      1.50     17.00     99.00     99.00
 8   8 10   6     15.0 1      0.0      0.00     16.60     99.00     99.00
 8   8 10   7     15.0 1      0.0      0.00     17.50     99.00     99.00
 8   8 10   8     15.0 1    342.0      0.50     19.40     99.00     99.00
 8   8 10   9     15.0 1      0.0      0.00     21.40     99.00     99.00
 8   8 10  10     15.0 1      0.0      0.00     23.10     99.00     99.00
 8   8 10  11     15.0 1      0.0      0.00     25.00     99.00     99.00
 8   8 10  12     15.0 1    286.0      0.50     26.60     99.00     99.00
 8   8 10  13     15.0 1      0.0      0.00     28.10     99.00     99.00
 8   8 10  14     15.0 1    324.0      0.50     29.00     99.00     99.00
 8   8 10  15     15.0 1    349.0      1.00     29.60     99.00     99.00
 8   8 10  16     15.0 1      6.0      2.10     29.80     99.00     99.00
 8   8 10  17     15.0 1     18.0      2.60     29.50     99.00     99.00
 8   8 10  18     15.0 1     19.0      3.10     28.90     99.00     99.00
 8   8 10  19     15.0 1     16.0      3.60     27.80     99.00     99.00
 8   8 10  20     15.0 1     19.0      2.60     26.60     99.00     99.00
 8   8 10  21     15.0 1    321.0      0.50     25.30     99.00     99.00
 8   8 10  22     15.0 1    258.0      2.60     24.00     99.00     99.00
 8   8 10  23     15.0 1    266.0      3.10     22.60     99.00     99.00
 8   8 10  24     15.0 1    273.0      2.60     21.60     99.00     99.00
 8   8 11   1     15.0 1    263.0      2.10     21.10     99.00     99.00
 8   8 11   2     15.0 1    278.0      1.50     20.60     99.00     99.00
 8   8 11   3     15.0 1    307.0      1.50     20.10     99.00     99.00
 8   8 11   4     15.0 1    319.0      1.50     19.60     99.00     99.00
 8   8 11   5     15.0 1    327.0      1.50     19.00     99.00     99.00
 8   8 11   6     15.0 1    326.0      1.50     18.60     99.00     99.00
 8   8 11   7     15.0 1    359.0      2.10     19.60     99.00     99.00
 8   8 11   8     15.0 1      0.0      0.00     21.10     99.00     99.00
 8   8 11   9     15.0 1      0.0      0.00     23.30     99.00     99.00
 8   8 11  10     15.0 1      0.0      0.00     25.00     99.00     99.00
 8   8 11  11     15.0 1      0.0      0.00     26.60     99.00     99.00
 8   8 11  12     15.0 1      0.0      0.00     28.10     99.00     99.00
 8   8 11  13     15.0 1      0.0      0.00     29.50     99.00     99.00
 8   8 11  14     15.0 1    319.0      0.50     30.50     99.00     99.00
 8   8 11  15     15.0 1    346.0      0.50     31.10     99.00     99.00
 8   8 11  16     15.0 1      0.0      0.00     31.40     99.00     99.00
 8   8 11  17     15.0 1     18.0      1.50     31.30     99.00     99.00
 8   8 11  18     15.0 1     32.0      2.10     30.80     99.00     99.00
 8   8 11  19     15.0 1     26.0      2.10     29.50     99.00     99.00
 8   8 11  20     15.0 1    319.0      0.50     28.10     99.00     99.00
 8   8 11  21     15.0 1    285.0      4.60     25.90     99.00     99.00
 8   8 11  22     15.0 1    282.0      4.10     22.90     99.00     99.00
 8   8 11  23     15.0 1    291.0      3.10     21.80     99.00     99.00
 8   8 11  24     15.0 1    312.0      2.60     21.10     99.00     99.00
 8   8 12   1     15.0 1    352.0      2.10     20.40     99.00     99.00
 8   8 12   2     15.0 1     25.0      2.10     19.90     99.00     99.00
 8   8 12   3     15.0 1     13.0      1.50     19.40     99.00     99.00
 8   8 12   4     15.0 1    345.0      1.00     19.00     99.00     99.00
 8   8 12   5     15.0 1    309.0      0.50     18.60     99.00     99.00
 8   8 12   6     15.0 1    303.0      0.50     18.40     99.00     99.00
 8   8 12   7     15.0 1    306.0      1.50     19.90     99.00     99.00
 8   8 12   8     15.0 1      0.0      0.00     21.60     99.00     99.00
 8   8 12   9     15.0 1      0.0      0.00     24.00     99.00     99.00
 8   8 12  10     15.0 1      0.0      0.00     25.80     99.00     99.00
 8   8 12  11     15.0 1      0.0      0.00     27.60     99.00     99.00
 8   8 12  12     15.0 1      0.0      0.00     29.30     99.00     99.00
 8   8 12  13     15.0 1      0.0      0.00     30.60     99.00     99.00
 8   8 12  14     15.0 1      0.0      0.00     31.90     99.00     99.00
 8   8 12  15     15.0 1      0.0      0.00     32.60     99.00     99.00
 8   8 12  16     15.0 1      0.0      0.00     33.30     99.00     99.00
 8   8 12  17     15.0 1     18.0      1.50     33.00     99.00     99.00
 8   8 12  18     15.0 1     24.0      2.60     32.50     99.00     99.00
 8   8 12  19     15.0 1      8.0      2.10     31.10     99.00     99.00
 8   8 12  20     15.0 1    287.0      2.60     29.90     99.00     99.00
 8   8 12  21     15.0 1    283.0      5.10     26.30     99.00     99.00
 8   8 12  22     15.0 1    280.0      4.10     24.00     99.00     99.00
 8   8 12  23     15.0 1    279.0      3.60     23.00     99.00     99.00
 8   8 12  24     15.0 1    313.0      2.10     22.40     99.00     99.00
 8   8 13   1     15.0 1      0.0      0.00     21.80     99.00     99.00
 8   8 13   2     15.0 1     25.0      2.60     21.10     99.00     99.00
 8   8 13   3     15.0 1     16.0      2.60     20.60     99.00     99.00
 8   8 13   4     15.0 1     18.0      1.50     20.10     99.00     99.00
 8   8 13   5     15.0 1      6.0      1.00     19.80     99.00     99.00
 8   8 13   6     15.0 1    346.0      0.50     19.60     99.00     99.00
 8   8 13   7     15.0 1    300.0      1.00     21.30     99.00     99.00
 8   8 13   8     15.0 1      0.0      0.00     23.30     99.00     99.00
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 8   8 13   9     15.0 1     0.0     0.00    25.50    99.00    99.00
 8   8 13  10     15.0 1     0.0     0.00    27.40    99.00    99.00
 8   8 13  11     15.0 1     0.0     0.00    29.10    99.00    99.00
 8   8 13  12     15.0 1     0.0     0.00    31.10    99.00    99.00
 8   8 13  13     15.0 1     0.0     0.00    32.60    99.00    99.00
 8   8 13  14     15.0 1   308.0     0.50    33.80    99.00    99.00
 8   8 13  15     15.0 1   322.0     0.50    34.50    99.00    99.00
 8   8 13  16     15.0 1   357.0     1.00    34.80    99.00    99.00
 8   8 13  17     15.0 1     7.0     1.50    34.40    99.00    99.00
 8   8 13  18     15.0 1    25.0     2.60    33.60    99.00    99.00
 8   8 13  19     15.0 1     6.0     2.60    32.10    99.00    99.00
 8   8 13  20     15.0 1   312.0     4.10    30.60    99.00    99.00
 8   8 13  21     15.0 1   303.0     4.60    26.90    99.00    99.00
 8   8 13  22     15.0 1   288.0     4.10    25.00    99.00    99.00
 8   8 13  23     15.0 1   303.0     3.60    23.90    99.00    99.00
 8   8 13  24     15.0 1   335.0     3.10    23.10    99.00    99.00
 8   8 14   1     15.0 1   357.0     3.10    22.60    99.00    99.00
 8   8 14   2     15.0 1    17.0     3.60    22.10    99.00    99.00
 8   8 14   3     15.0 1    16.0     3.60    21.60    99.00    99.00
 8   8 14   4     15.0 1    35.0     1.50    21.40    99.00    99.00
 8   8 14   5     15.0 1    32.0     1.00    21.40    99.00    99.00
 8   8 14   6     15.0 1    28.0     3.10    21.30    99.00    99.00
 8   8 14   7     15.0 1    37.0     2.60    21.30    99.00    99.00
 8   8 14   8     15.0 1    29.0     2.10    22.60    99.00    99.00
 8   8 14   9     15.0 1    14.0     2.10    24.40    99.00    99.00
 8   8 14  10     15.0 1   316.0     0.50    26.50    99.00    99.00
 8   8 14  11     15.0 1   265.0     0.50    28.60    99.00    99.00
 8   8 14  12     15.0 1   273.0     0.50    30.40    99.00    99.00
 8   8 14  13     15.0 1   293.0     0.50    31.60    99.00    99.00
 8   8 14  14     15.0 1   267.0     0.50    32.60    99.00    99.00
 8   8 14  15     15.0 1   275.0     0.50    33.10    99.00    99.00
 8   8 14  16     15.0 1   332.0     0.50    33.10    99.00    99.00
 8   8 14  17     15.0 1     6.0     1.50    33.00    99.00    99.00
 8   8 14  18     15.0 1     2.0     2.10    32.10    99.00    99.00
 8   8 14  19     15.0 1   315.0     3.60    31.30    99.00    99.00
 8   8 14  20     15.0 1   304.0     4.60    28.40    99.00    99.00
 8   8 14  21     15.0 1   286.0     4.10    26.30    99.00    99.00
 8   8 14  22     15.0 1   294.0     3.60    25.60    99.00    99.00
 8   8 14  23     15.0 1   312.0     3.10    25.10    99.00    99.00
 8   8 14  24     15.0 1   328.0     3.10    24.90    99.00    99.00
 8   8 15   1     15.0 1     6.0     2.60    24.60    99.00    99.00
 8   8 15   2     15.0 1    39.0     3.60    24.30    99.00    99.00
 8   8 15   3     15.0 1    42.0     3.60    23.60    99.00    99.00
 8   8 15   4     15.0 1    52.0     2.10    23.50    99.00    99.00
 8   8 15   5     15.0 1    49.0     0.50    23.30    99.00    99.00
 8   8 15   6     15.0 1     0.0     0.00    23.00    99.00    99.00
 8   8 15   7     15.0 1   299.0     0.50    23.60    99.00    99.00
 8   8 15   8     15.0 1     0.0     0.00    25.40    99.00    99.00
 8   8 15   9     15.0 1     0.0     0.00    26.60    99.00    99.00
 8   8 15  10     15.0 1     0.0     0.00    27.90    99.00    99.00
 8   8 15  11     15.0 1     0.0     0.00    29.60    99.00    99.00
 8   8 15  12     15.0 1     0.0     0.00    31.10    99.00    99.00
 8   8 15  13     15.0 1   115.0     0.50    32.40    99.00    99.00
 8   8 15  14     15.0 1    96.0     0.50    33.30    99.00    99.00
 8   8 15  15     15.0 1   134.0     0.50    33.90    99.00    99.00
 8   8 15  16     15.0 1   145.0     0.50    34.10    99.00    99.00
 8   8 15  17     15.0 1    33.0     1.00    34.10    99.00    99.00
 8   8 15  18     15.0 1   337.0     3.10    33.40    99.00    99.00
 8   8 15  19     15.0 1   325.0     4.10    31.00    99.00    99.00
 8   8 15  20     15.0 1   312.0     4.10    28.50    99.00    99.00
 8   8 15  21     15.0 1   319.0     3.10    27.10    99.00    99.00
 8   8 15  22     15.0 1   332.0     3.10    26.30    99.00    99.00
 8   8 15  23     15.0 1   344.0     3.10    25.60    99.00    99.00
 8   8 15  24     15.0 1   347.0     2.60    25.00    99.00    99.00
 8   8 16   1     15.0 1    18.0     3.10    24.40    99.00    99.00
 8   8 16   2     15.0 1    23.0     3.60    23.60    99.00    99.00
 8   8 16   3     15.0 1     0.0     0.00    22.80    99.00    99.00
 8   8 16   4     15.0 1   346.0     3.60    22.10    99.00    99.00
 8   8 16   5     15.0 1   348.0     3.10    21.60    99.00    99.00
 8   8 16   6     15.0 1   337.0     2.60    21.10    99.00    99.00
 8   8 16   7     15.0 1   294.0     3.10    21.60    99.00    99.00
 8   8 16   8     15.0 1   289.0     1.00    23.50    99.00    99.00
 8   8 16   9     15.0 1     0.0     0.00    25.60    99.00    99.00
 8   8 16  10     15.0 1     0.0     0.00    27.40    99.00    99.00
 8   8 16  11     15.0 1     0.0     0.00    29.10    99.00    99.00
 8   8 16  12     15.0 1     0.0     0.00    30.80    99.00    99.00
 8   8 16  13     15.0 1     0.0     0.00    32.10    99.00    99.00
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 8   8 16 14    15.0 1     9.0     0.50    33.30    99.00    99.00
 8   8 16 15    15.0 1    15.0     1.50    34.00    99.00    99.00
 8   8 16 16    15.0 1     2.0     2.10    34.40    99.00    99.00
 8   8 16 17    15.0 1   332.0     2.10    33.80    99.00    99.00
 8   8 16 18    15.0 1   292.0     4.60    31.60    99.00    99.00
 8   8 16 19    15.0 1   288.0     4.60    27.50    99.00    99.00
 8   8 16 20    15.0 1   301.0     4.10    25.10    99.00    99.00
 8   8 16 21    15.0 1   309.0     3.60    23.60    99.00    99.00
 8   8 16 22    15.0 1   322.0     3.60    22.60    99.00    99.00
 8   8 16 23    15.0 1   337.0     3.60    21.90    99.00    99.00
 8   8 16 24    15.0 1     7.0     3.10    21.10    99.00    99.00
 8   8 17  1    15.0 1    28.0     3.10    20.50    99.00    99.00
 8   8 17  2    15.0 1    35.0     2.60    19.90    99.00    99.00
 8   8 17  3    15.0 1    24.0     1.50    19.40    99.00    99.00
 8   8 17  4    15.0 1    18.0     1.50    19.00    99.00    99.00
 8   8 17  5    15.0 1    11.0     1.00    18.60    99.00    99.00
 8   8 17  6    15.0 1     0.0     0.00    18.30    99.00    99.00
 8   8 17  7    15.0 1   282.0     2.60    19.40    99.00    99.00
 8   8 17  8    15.0 1   294.0     1.00    21.10    99.00    99.00
 8   8 17  9    15.0 1     0.0     0.00    23.10    99.00    99.00
 8   8 17 10    15.0 1     0.0     0.00    25.00    99.00    99.00
 8   8 17 11    15.0 1     0.0     0.00    26.80    99.00    99.00
 8   8 17 12    15.0 1     0.0     0.00    28.50    99.00    99.00
 8   8 17 13    15.0 1   332.0     0.50    29.80    99.00    99.00
 8   8 17 14    15.0 1   350.0     0.50    30.80    99.00    99.00
 8   8 17 15    15.0 1     1.0     1.00    31.50    99.00    99.00
 8   8 17 16    15.0 1     1.0     1.50    32.10    99.00    99.00
 8   8 17 17    15.0 1     4.0     1.50    31.80    99.00    99.00
 8   8 17 18    15.0 1   323.0     3.10    31.40    99.00    99.00
 8   8 17 19    15.0 1   288.0     4.60    28.10    99.00    99.00
 8   8 17 20    15.0 1   285.0     4.60    24.10    99.00    99.00
 8   8 17 21    15.0 1   280.0     4.10    22.10    99.00    99.00
 8   8 17 22    15.0 1   285.0     3.60    20.80    99.00    99.00
 8   8 17 23    15.0 1   283.0     3.10    20.00    99.00    99.00
 8   8 17 24    15.0 1   304.0     1.50    19.50    99.00    99.00
 8   8 18  1    15.0 1   360.0     1.00    19.00    99.00    99.00
 8   8 18  2    15.0 1   311.0     0.50    18.50    99.00    99.00
 8   8 18  3    15.0 1   285.0     1.50    18.00    99.00    99.00
 8   8 18  4    15.0 1   281.0     1.50    17.60    99.00    99.00
 8   8 18  5    15.0 1   300.0     1.50    17.10    99.00    99.00
 8   8 18  6    15.0 1   312.0     1.50    16.80    99.00    99.00
 8   8 18  7    15.0 1   341.0     1.50    17.60    99.00    99.00
 8   8 18  8    15.0 1   325.0     0.50    19.40    99.00    99.00
 8   8 18  9    15.0 1     0.0     0.00    21.10    99.00    99.00
 8   8 18 10    15.0 1     0.0     0.00    22.90    99.00    99.00
 8   8 18 11    15.0 1     0.0     0.00    24.90    99.00    99.00
 8   8 18 12    15.0 1     0.0     0.00    26.40    99.00    99.00
 8   8 18 13    15.0 1   314.0     0.50    27.80    99.00    99.00
 8   8 18 14    15.0 1   332.0     1.00    29.00    99.00    99.00
 8   8 18 15    15.0 1   352.0     2.10    29.60    99.00    99.00
 8   8 18 16    15.0 1     3.0     3.10    29.80    99.00    99.00
 8   8 18 17    15.0 1     8.0     2.60    29.10    99.00    99.00
 8   8 18 18    15.0 1     9.0     3.60    28.40    99.00    99.00
 8   8 18 19    15.0 1   335.0     3.60    27.10    99.00    99.00
 8   8 18 20    15.0 1   267.0     5.10    24.00    99.00    99.00
 8   8 18 21    15.0 1   273.0     5.70    21.10    99.00    99.00
 8   8 18 22    15.0 1   269.0     4.10    19.90    99.00    99.00
 8   8 18 23    15.0 1   276.0     3.10    19.10    99.00    99.00
 8   8 18 24    15.0 1   312.0     2.60    18.60    99.00    99.00
 8   8 19  1    15.0 1   349.0     2.60    18.60    99.00    99.00
 8   8 19  2    15.0 1     4.0     2.10    18.30    99.00    99.00
 8   8 19  3    15.0 1   346.0     1.50    17.80    99.00    99.00
 8   8 19  4    15.0 1   347.0     1.00    17.30    99.00    99.00
 8   8 19  5    15.0 1    11.0     1.00    16.80    99.00    99.00
 8   8 19  6    15.0 1    28.0     1.00    16.30    99.00    99.00
 8   8 19  7    15.0 1     6.0     2.10    16.60    99.00    99.00
 8   8 19  8    15.0 1   357.0     0.50    18.00    99.00    99.00
 8   8 19  9    15.0 1     0.0     0.00    19.50    99.00    99.00
 8   8 19 10    15.0 1     0.0     0.00    21.10    99.00    99.00
 8   8 19 11    15.0 1     0.0     0.00    22.90    99.00    99.00
 8   8 19 12    15.0 1     0.0     0.00    24.40    99.00    99.00
 8   8 19 13    15.0 1   329.0     0.50    25.50    99.00    99.00
 8   8 19 14    15.0 1   336.0     1.00    26.40    99.00    99.00
 8   8 19 15    15.0 1   347.0     2.10    27.10    99.00    99.00
 8   8 19 16    15.0 1   358.0     3.10    27.30    99.00    99.00
 8   8 19 17    15.0 1    12.0     3.10    26.80    99.00    99.00
 8   8 19 18    15.0 1     7.0     3.60    25.90    99.00    99.00
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 8   8 19 19     15.0 1     7.0     3.60    24.30    99.00    99.00
 8   8 19 20     15.0 1   349.0     3.60    23.30    99.00    99.00
 8   8 19 21     15.0 1   326.0     3.60    21.90    99.00    99.00
 8   8 19 22     15.0 1   345.0     3.60    20.60    99.00    99.00
 8   8 19 23     15.0 1   335.0     3.10    20.10    99.00    99.00
 8   8 19 24     15.0 1   321.0     3.10    19.40    99.00    99.00
 8   8 20  1     15.0 1   335.0     2.60    18.60    99.00    99.00
 8   8 20  2     15.0 1   349.0     2.10    18.10    99.00    99.00
 8   8 20  3     15.0 1    10.0     1.50    17.60    99.00    99.00
 8   8 20  4     15.0 1    11.0     1.00    17.10    99.00    99.00
 8   8 20  5     15.0 1   336.0     1.00    16.60    99.00    99.00
 8   8 20  6     15.0 1   345.0     0.50    16.10    99.00    99.00
 8   8 20  7     15.0 1    11.0     1.50    16.60    99.00    99.00
 8   8 20  8     15.0 1     0.0     0.00    18.10    99.00    99.00
 8   8 20  9     15.0 1     0.0     0.00    19.90    99.00    99.00
 8   8 20 10     15.0 1     0.0     0.00    21.60    99.00    99.00
 8   8 20 11     15.0 1     0.0     0.00    23.50    99.00    99.00
 8   8 20 12     15.0 1     0.0     0.00    25.10    99.00    99.00
 8   8 20 13     15.0 1     0.0     0.00    26.30    99.00    99.00
 8   8 20 14     15.0 1   319.0     0.50    27.10    99.00    99.00
 8   8 20 15     15.0 1   343.0     1.00    27.80    99.00    99.00
 8   8 20 16     15.0 1     5.0     1.50    28.10    99.00    99.00
 8   8 20 17     15.0 1    18.0     2.10    28.00    99.00    99.00
 8   8 20 18     15.0 1    44.0     2.10    27.80    99.00    99.00
 8   8 20 19     15.0 1    50.0     2.60    26.60    99.00    99.00
 8   8 20 20     15.0 1    57.0     1.50    25.50    99.00    99.00
 8   8 20 21     15.0 1   115.0     0.50    24.10    99.00    99.00
 8   8 20 22     15.0 1   184.0     0.50    22.90    99.00    99.00
 8   8 20 23     15.0 1   137.0     0.50    22.00    99.00    99.00
 8   8 20 24     15.0 1   111.0     1.00    21.10    99.00    99.00
 8   8 21  1     15.0 1   106.0     1.00    20.50    99.00    99.00
 8   8 21  2     15.0 1   123.0     1.00    19.90    99.00    99.00
 8   8 21  3     15.0 1   134.0     0.50    19.40    99.00    99.00
 8   8 21  4     15.0 1   352.0     0.50    18.90    99.00    99.00
 8   8 21  5     15.0 1   347.0     1.00    18.50    99.00    99.00
 8   8 21  6     15.0 1   356.0     1.00    18.30    99.00    99.00
 8   8 21  7     15.0 1    23.0     1.50    19.50    99.00    99.00
 8   8 21  8     15.0 1    28.0     0.50    21.30    99.00    99.00
 8   8 21  9     15.0 1     0.0     0.00    23.10    99.00    99.00
 8   8 21 10     15.0 1     0.0     0.00    24.60    99.00    99.00
 8   8 21 11     15.0 1     0.0     0.00    26.40    99.00    99.00
 8   8 21 12     15.0 1     0.0     0.00    27.80    99.00    99.00
 8   8 21 13     15.0 1   338.0     0.50    28.80    99.00    99.00
 8   8 21 14     15.0 1     2.0     1.00    29.60    99.00    99.00
 8   8 21 15     15.0 1    15.0     1.50    30.10    99.00    99.00
 8   8 21 16     15.0 1    25.0     2.10    30.30    99.00    99.00
 8   8 21 17     15.0 1    24.0     2.10    30.30    99.00    99.00
 8   8 21 18     15.0 1     7.0     3.10    29.80    99.00    99.00
 8   8 21 19     15.0 1     0.0     0.00    27.90    99.00    99.00
 8   8 21 20     15.0 1   353.0     3.60    26.30    99.00    99.00
 8   8 21 21     15.0 1   331.0     3.60    25.10    99.00    99.00
 8   8 21 22     15.0 1   316.0     3.60    24.50    99.00    99.00
 8   8 21 23     15.0 1   326.0     3.10    24.00    99.00    99.00
 8   8 21 24     15.0 1   334.0     3.10    23.50    99.00    99.00
 8   8 22  1     15.0 1   329.0     3.10    23.00    99.00    99.00
 8   8 22  2     15.0 1   339.0     3.10    22.40    99.00    99.00
 8   8 22  3     15.0 1     4.0     3.10    21.60    99.00    99.00
 8   8 22  4     15.0 1     1.0     3.10    20.80    99.00    99.00
 8   8 22  5     15.0 1     0.0     0.00    20.10    99.00    99.00
 8   8 22  6     15.0 1     2.0     2.60    19.80    99.00    99.00
 8   8 22  7     15.0 1     3.0     2.10    20.00    99.00    99.00
 8   8 22  8     15.0 1   352.0     1.50    20.60    99.00    99.00
 8   8 22  9     15.0 1   266.0     0.50    21.90    99.00    99.00
 8   8 22 10     15.0 1     0.0     0.00    24.40    99.00    99.00
 8   8 22 11     15.0 1     0.0     0.00    26.30    99.00    99.00
 8   8 22 12     15.0 1     0.0     0.00    28.00    99.00    99.00
 8   8 22 13     15.0 1     0.0     0.00    29.50    99.00    99.00
 8   8 22 14     15.0 1   311.0     0.50    30.60    99.00    99.00
 8   8 22 15     15.0 1   328.0     0.50    31.30    99.00    99.00
 8   8 22 16     15.0 1   344.0     1.00    32.50    99.00    99.00
 8   8 22 17     15.0 1   358.0     1.50    32.50    99.00    99.00
 8   8 22 18     15.0 1    12.0     2.60    32.00    99.00    99.00
 8   8 22 19     15.0 1   335.0     3.10    31.00    99.00    99.00
 8   8 22 20     15.0 1   280.0     5.10    27.60    99.00    99.00
 8   8 22 21     15.0 1   282.0     5.10    24.40    99.00    99.00
 8   8 22 22     15.0 1   285.0     4.60    23.30    99.00    99.00
 8   8 22 23     15.0 1   278.0     3.60    22.40    99.00    99.00
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8	8	22	24	15.0	1	285.0	2.60	21.60	99.00	99.00
8	8	23	1	15.0	1	294.0	1.50	21.30	99.00	99.00
8	8	23	2	15.0	1	305.0	1.50	21.00	99.00	99.00
8	8	23	3	15.0	1	299.0	1.50	20.80	99.00	99.00
8	8	23	4	15.0	1	297.0	1.50	20.60	99.00	99.00
8	8	23	5	15.0	1	314.0	2.10	20.30	99.00	99.00
8	8	23	6	15.0	1	322.0	2.10	20.10	99.00	99.00
8	8	23	7	15.0	1	327.0	2.10	21.10	99.00	99.00
8	8	23	8	15.0	1	340.0	0.50	22.50	99.00	99.00
8	8	23	9	15.0	1	0.0	0.00	24.00	99.00	99.00
8	8	23	10	15.0	1	0.0	0.00	25.80	99.00	99.00
8	8	23	11	15.0	1	0.0	0.00	27.60	99.00	99.00
8	8	23	12	15.0	1	0.0	0.00	29.40	99.00	99.00
8	8	23	13	15.0	1	0.0	0.00	30.90	99.00	99.00
8	8	23	14	15.0	1	307.0	0.50	32.00	99.00	99.00
8	8	23	15	15.0	1	330.0	1.00	32.60	99.00	99.00
8	8	23	16	15.0	1	359.0	1.50	32.80	99.00	99.00
8	8	23	17	15.0	1	10.0	2.10	32.50	99.00	99.00
8	8	23	18	15.0	1	25.0	3.10	31.60	99.00	99.00
8	8	23	19	15.0	1	4.0	3.60	30.50	99.00	99.00
8	8	23	20	15.0	1	286.0	5.10	27.90	99.00	99.00
8	8	23	21	15.0	1	279.0	5.10	24.40	99.00	99.00
8	8	23	22	15.0	1	279.0	4.10	23.10	99.00	99.00
8	8	23	23	15.0	1	288.0	3.60	22.30	99.00	99.00
8	8	23	24	15.0	1	296.0	2.60	21.90	99.00	99.00
8	8	24	1	15.0	1	320.0	1.50	21.60	99.00	99.00
8	8	24	2	15.0	1	2.0	0.50	21.50	99.00	99.00
8	8	24	3	15.0	1	126.0	0.50	21.30	99.00	99.00
8	8	24	4	15.0	1	0.0	0.00	21.10	99.00	99.00
8	8	24	5	15.0	1	0.0	0.00	20.60	99.00	99.00
8	8	24	6	15.0	1	0.0	0.00	20.40	99.00	99.00
8	8	24	7	15.0	1	360.0	1.00	21.30	99.00	99.00
8	8	24	8	15.0	1	4.0	0.50	22.80	99.00	99.00
8	8	24	9	15.0	1	0.0	0.00	24.50	99.00	99.00
8	8	24	10	15.0	1	0.0	0.00	26.30	99.00	99.00
8	8	24	11	15.0	1	0.0	0.00	28.10	99.00	99.00
8	8	24	12	15.0	1	0.0	0.00	29.90	99.00	99.00
8	8	24	13	15.0	1	322.0	0.50	31.30	99.00	99.00
8	8	24	14	15.0	1	327.0	1.00	32.40	99.00	99.00
8	8	24	15	15.0	1	345.0	1.50	32.90	99.00	99.00
8	8	24	16	15.0	1	353.0	2.60	33.10	99.00	99.00
8	8	24	17	15.0	1	0.0	0.00	32.60	99.00	99.00
8	8	24	18	15.0	1	6.0	3.10	32.00	99.00	99.00
8	8	24	19	15.0	1	9.0	3.10	30.60	99.00	99.00
8	8	24	20	15.0	1	347.0	1.50	29.60	99.00	99.00
8	8	24	21	15.0	1	281.0	3.60	28.30	99.00	99.00
8	8	24	22	15.0	1	278.0	4.60	25.30	99.00	99.00
8	8	24	23	15.0	1	278.0	3.60	24.10	99.00	99.00
8	8	24	24	15.0	1	303.0	3.10	23.90	99.00	99.00
8	8	25	1	15.0	1	323.0	3.60	23.40	99.00	99.00
8	8	25	2	15.0	1	332.0	3.10	22.60	99.00	99.00
8	8	25	3	15.0	1	342.0	2.10	22.00	99.00	99.00
8	8	25	4	15.0	1	330.0	1.50	21.40	99.00	99.00
8	8	25	5	15.0	1	328.0	1.50	20.90	99.00	99.00
8	8	25	6	15.0	1	317.0	1.00	20.40	99.00	99.00
8	8	25	7	15.0	1	351.0	1.50	20.80	99.00	99.00
8	8	25	8	15.0	1	354.0	1.50	22.30	99.00	99.00
8	8	25	9	15.0	1	346.0	1.00	24.30	99.00	99.00
8	8	25	10	15.0	1	0.0	0.00	26.40	99.00	99.00
8	8	25	11	15.0	1	0.0	0.00	28.10	99.00	99.00
8	8	25	12	15.0	1	0.0	0.00	29.60	99.00	99.00
8	8	25	13	15.0	1	338.0	1.00	31.00	99.00	99.00
8	8	25	14	15.0	1	352.0	2.10	31.90	99.00	99.00
8	8	25	15	15.0	1	348.0	3.60	32.30	99.00	99.00
8	8	25	16	15.0	1	356.0	4.10	32.10	99.00	99.00
8	8	25	17	15.0	1	4.0	3.10	31.60	99.00	99.00
8	8	25	18	15.0	1	356.0	3.10	30.90	99.00	99.00
8	8	25	19	15.0	1	336.0	3.60	29.80	99.00	99.00
8	8	25	20	15.0	1	345.0	4.10	27.50	99.00	99.00
8	8	25	21	15.0	1	341.0	3.60	25.60	99.00	99.00
8	8	25	22	15.0	1	334.0	3.10	24.90	99.00	99.00
8	8	25	23	15.0	1	320.0	3.10	24.10	99.00	99.00
8	8	25	24	15.0	1	334.0	3.10	23.10	99.00	99.00
8	8	26	1	15.0	1	345.0	3.10	22.40	99.00	99.00
8	8	26	2	15.0	1	341.0	3.10	21.60	99.00	99.00
8	8	26	3	15.0	1	352.0	2.60	21.10	99.00	99.00
8	8	26	4	15.0	1	354.0	2.60	20.50	99.00	99.00

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 8   8 26   5     15.0 1      0.0      0.00     20.00     99.00     99.00
 8   8 26   6     15.0 1      9.0      1.50     19.60     99.00     99.00
 8   8 26   7     15.0 1     15.0      2.60     20.00     99.00     99.00
 8   8 26   8     15.0 1     20.0      1.50     21.10     99.00     99.00
 8   8 26   9     15.0 1      0.0      0.00     22.60     99.00     99.00
 8   8 26  10     15.0 1      0.0      0.00     24.30     99.00     99.00
 8   8 26  11     15.0 1      0.0      0.00     25.80     99.00     99.00
 8   8 26  12     15.0 1    352.0      0.50     27.10     99.00     99.00
 8   8 26  13     15.0 1      0.0      0.00     28.10     99.00     99.00
 8   8 26  14     15.0 1     15.0      2.10     28.90     99.00     99.00
 8   8 26  15     15.0 1     16.0      2.60     29.30     99.00     99.00
 8   8 26  16     15.0 1     20.0      3.60     29.10     99.00     99.00
 8   8 26  17     15.0 1     32.0      3.10     28.80     99.00     99.00
 8   8 26  18     15.0 1     39.0      3.10     28.00     99.00     99.00
 8   8 26  19     15.0 1     52.0      2.60     26.80     99.00     99.00
 8   8 26  20     15.0 1     64.0      0.50     25.90     99.00     99.00
 8   8 26  21     15.0 1    244.0      0.50     25.00     99.00     99.00
 8   8 26  22     15.0 1    259.0      2.10     24.50     99.00     99.00
 8   8 26  23     15.0 1    271.0      3.60     23.40     99.00     99.00
 8   8 26  24     15.0 1    274.0      3.10     22.30     99.00     99.00
 8   8 27   1     15.0 1    286.0      2.60     21.60     99.00     99.00
 8   8 27   2     15.0 1    292.0      1.50     21.30     99.00     99.00
 8   8 27   3     15.0 1    301.0      2.10     21.10     99.00     99.00
 8   8 27   4     15.0 1    314.0      2.60     20.80     99.00     99.00
 8   8 27   5     15.0 1    331.0      2.60     20.40     99.00     99.00
 8   8 27   6     15.0 1    327.0      2.60     20.00     99.00     99.00
 8   8 27   7     15.0 1    325.0      2.10     19.80     99.00     99.00
 8   8 27   8     15.0 1    331.0      1.50     21.10     99.00     99.00
 8   8 27   9     15.0 1      0.0      0.00     23.50     99.00     99.00
 8   8 27  10     15.0 1      0.0      0.00     25.40     99.00     99.00
 8   8 27  11     15.0 1      0.0      0.00     27.10     99.00     99.00
 8   8 27  12     15.0 1      0.0      0.00     28.60     99.00     99.00
 8   8 27  13     15.0 1      0.0      0.00     29.90     99.00     99.00
 8   8 27  14     15.0 1      0.0      0.00     31.00     99.00     99.00
 8   8 27  15     15.0 1    334.0      0.50     31.60     99.00     99.00
 8   8 27  16     15.0 1    352.0      1.00     32.30     99.00     99.00
 8   8 27  17     15.0 1    359.0      1.50     32.00     99.00     99.00
 8   8 27  18     15.0 1      9.0      2.10     31.40     99.00     99.00
 8   8 27  19     15.0 1     14.0      2.10     29.90     99.00     99.00
 8   8 27  20     15.0 1      0.0      0.00     28.30     99.00     99.00
 8   8 27  21     15.0 1    270.0      0.50     26.80     99.00     99.00
 8   8 27  22     15.0 1    282.0      2.60     25.50     99.00     99.00
 8   8 27  23     15.0 1    303.0      3.60     24.30     99.00     99.00
 8   8 27  24     15.0 1    306.0      3.10     23.30     99.00     99.00
 8   8 28   1     15.0 1    313.0      2.60     22.60     99.00     99.00
 8   8 28   2     15.0 1    313.0      1.50     22.10     99.00     99.00
 8   8 28   3     15.0 1    293.0      1.00     21.80     99.00     99.00
 8   8 28   4     15.0 1    284.0      1.00     21.10     99.00     99.00
 8   8 28   5     15.0 1    277.0      1.50     20.60     99.00     99.00
 8   8 28   6     15.0 1    290.0      1.50     20.10     99.00     99.00
 8   8 28   7     15.0 1    300.0      1.00     20.80     99.00     99.00
 8   8 28   8     15.0 1      0.0      0.00     22.80     99.00     99.00
 8   8 28   9     15.0 1      0.0      0.00     24.90     99.00     99.00
 8   8 28  10     15.0 1      0.0      0.00     27.10     99.00     99.00
 8   8 28  11     15.0 1      0.0      0.00     28.90     99.00     99.00
 8   8 28  12     15.0 1      0.0      0.00     30.80     99.00     99.00
 8   8 28  13     15.0 1      0.0      0.00     32.40     99.00     99.00
 8   8 28  14     15.0 1      0.0      0.00     33.60     99.00     99.00
 8   8 28  15     15.0 1    341.0      0.50     34.10     99.00     99.00
 8   8 28  16     15.0 1    356.0      1.50     34.40     99.00     99.00
 8   8 28  17     15.0 1      0.0      0.00     33.60     99.00     99.00
 8   8 28  18     15.0 1     13.0      3.60     32.50     99.00     99.00
 8   8 28  19     15.0 1     10.0      2.60     31.00     99.00     99.00
 8   8 28  20     15.0 1    294.0      0.50     29.50     99.00     99.00
 8   8 28  21     15.0 1    268.0      2.60     28.30     99.00     99.00
 8   8 28  22     15.0 1    303.0      3.60     27.10     99.00     99.00
 8   8 28  23     15.0 1    322.0      3.60     25.80     99.00     99.00
 8   8 28  24     15.0 1    355.0      3.10     24.90     99.00     99.00
 8   8 29   1     15.0 1     29.0      2.60     24.10     99.00     99.00
 8   8 29   2     15.0 1     59.0      2.10     23.60     99.00     99.00
 8   8 29   3     15.0 1     58.0      0.50     23.30     99.00     99.00
 8   8 29   4     15.0 1      0.0      0.00     22.50     99.00     99.00
 8   8 29   5     15.0 1      0.0      0.00     21.80     99.00     99.00
 8   8 29   6     15.0 1      0.0      0.00     21.30     99.00     99.00
 8   8 29   7     15.0 1      0.0      0.00     21.60     99.00     99.00
 8   8 29   8     15.0 1    257.0      0.50     24.60     99.00     99.00
 8   8 29   9     15.0 1    294.0      0.50     26.90     99.00     99.00
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 8   8 29 10     15.0 1     0.0      0.00     29.40     99.00     99.00
 8   8 29 11     15.0 1     0.0      0.00     31.40     99.00     99.00
 8   8 29 12     15.0 1     0.0      0.00     33.00     99.00     99.00
 8   8 29 13     15.0 1   332.0      0.50     34.30     99.00     99.00
 8   8 29 14     15.0 1   352.0      0.50     35.30     99.00     99.00
 8   8 29 15     15.0 1     7.0      1.50     35.80     99.00     99.00
 8   8 29 16     15.0 1    17.0      2.10     35.60     99.00     99.00
 8   8 29 17     15.0 1    24.0      2.60     34.60     99.00     99.00
 8   8 29 18     15.0 1    17.0      3.10     33.90     99.00     99.00
 8   8 29 19     15.0 1     2.0      1.50     32.50     99.00     99.00
 8   8 29 20     15.0 1   290.0      2.10     31.10     99.00     99.00
 8   8 29 21     15.0 1   288.0      4.60     29.60     99.00     99.00
 8   8 29 22     15.0 1   289.0      4.10     27.00     99.00     99.00
 8   8 29 23     15.0 1   307.0      3.60     25.90     99.00     99.00
 8   8 29 24     15.0 1   328.0      3.10     25.10     99.00     99.00
 8   8 30  1     15.0 1    18.0      3.10     24.10     99.00     99.00
 8   8 30  2     15.0 1    43.0      3.60     23.40     99.00     99.00
 8   8 30  3     15.0 1    54.0      2.10     22.90     99.00     99.00
 8   8 30  4     15.0 1     0.0      0.00     22.50     99.00     99.00
 8   8 30  5     15.0 1   258.0      0.50     21.80     99.00     99.00
 8   8 30  6     15.0 1   303.0      1.00     21.30     99.00     99.00
 8   8 30  7     15.0 1   322.0      2.10     21.50     99.00     99.00
 8   8 30  8     15.0 1   345.0      1.50     23.10     99.00     99.00
 8   8 30  9     15.0 1     0.0      0.00     25.30     99.00     99.00
 8   8 30 10     15.0 1     0.0      0.00     27.40     99.00     99.00
 8   8 30 11     15.0 1     0.0      0.00     29.30     99.00     99.00
 8   8 30 12     15.0 1   322.0      0.50     31.00     99.00     99.00
 8   8 30 13     15.0 1   338.0      0.50     32.40     99.00     99.00
 8   8 30 14     15.0 1   350.0      1.50     33.40     99.00     99.00
 8   8 30 15     15.0 1     0.0      0.00     33.90     99.00     99.00
 8   8 30 16     15.0 1     6.0      3.10     33.60     99.00     99.00
 8   8 30 17     15.0 1     8.0      2.60     33.10     99.00     99.00
 8   8 30 18     15.0 1   337.0      3.10     32.50     99.00     99.00
 8   8 30 19     15.0 1   295.0      4.10     31.30     99.00     99.00
 8   8 30 20     15.0 1   261.0      5.10     26.60     99.00     99.00
 8   8 30 21     15.0 1   265.0      5.10     24.10     99.00     99.00
 8   8 30 22     15.0 1   256.0      4.10     23.10     99.00     99.00
 8   8 30 23     15.0 1   256.0      4.10     22.40     99.00     99.00
 8   8 30 24     15.0 1   280.0      3.10     22.00     99.00     99.00
 8   8 31  1     15.0 1   280.0      2.60     21.80     99.00     99.00
 8   8 31  2     15.0 1   284.0      2.10     21.60     99.00     99.00
 8   8 31  3     15.0 1   288.0      1.50     21.30     99.00     99.00
 8   8 31  4     15.0 1   288.0      1.50     21.00     99.00     99.00
 8   8 31  5     15.0 1   314.0      1.00     20.60     99.00     99.00
 8   8 31  6     15.0 1   338.0      0.50     20.30     99.00     99.00
 8   8 31  7     15.0 1   354.0      1.50     20.60     99.00     99.00
 8   8 31  8     15.0 1   346.0      1.50     21.90     99.00     99.00
 8   8 31  9     15.0 1   344.0      1.00     23.10     99.00     99.00
 8   8 31 10     15.0 1   336.0      1.00     24.50     99.00     99.00
 8   8 31 11     15.0 1   332.0      1.00     25.90     99.00     99.00
 8   8 31 12     15.0 1   334.0      1.50     27.00     99.00     99.00
 8   8 31 13     15.0 1   341.0      2.10     27.90     99.00     99.00
 8   8 31 14     15.0 1   353.0      3.10     28.40     99.00     99.00
 8   8 31 15     15.0 1   348.0      4.60     28.40     99.00     99.00
 8   8 31 16     15.0 1   348.0      5.10     28.00     99.00     99.00
 8   8 31 17     15.0 1   348.0      4.10     26.90     99.00     99.00
 8   8 31 18     15.0 1   341.0      4.60     25.10     99.00     99.00
 8   8 31 19     15.0 1   332.0      4.60     22.80     99.00     99.00
 8   8 31 20     15.0 1   334.0      4.10     21.50     99.00     99.00
 8   8 31 21     15.0 1   329.0      3.60     20.60     99.00     99.00
 8   8 31 22     15.0 1   323.0      3.10     20.10     99.00     99.00
 8   8 31 23     15.0 1   312.0      2.60     19.60     99.00     99.00
 8   8 31 24     15.0 1   316.0      2.10     19.00     99.00     99.00
 8   9  1  1     15.0 1   326.0      1.00     18.50     99.00     99.00
 8   9  1  2     15.0 1   310.0      1.00     17.90     99.00     99.00
 8   9  1  3     15.0 1   290.0      1.50     17.30     99.00     99.00
 8   9  1  4     15.0 1   296.0      2.60     16.50     99.00     99.00
 8   9  1  5     15.0 1   304.0      3.10     15.60     99.00     99.00
 8   9  1  6     15.0 1   300.0      2.60     15.10     99.00     99.00
 8   9  1  7     15.0 1   335.0      2.60     16.00     99.00     99.00
 8   9  1  8     15.0 1   360.0      0.50     17.60     99.00     99.00
 8   9  1  9     15.0 1     0.0      0.00     19.40     99.00     99.00
 8   9  1 10     15.0 1     0.0      0.00     21.10     99.00     99.00
 8   9  1 11     15.0 1     0.0      0.00     22.80     99.00     99.00
 8   9  1 12     15.0 1     0.0      0.00     24.30     99.00     99.00
 8   9  1 13     15.0 1   319.0      1.00     25.50     99.00     99.00
 8   9  1 14     15.0 1   334.0      1.50     26.30     99.00     99.00
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 8  9  1 15    15.0 1   344.0     2.10    26.90    99.00    99.00
 8  9  1 16    15.0 1   342.0     3.10    27.00    99.00    99.00
 8  9  1 17    15.0 1   353.0     2.60    26.30    99.00    99.00
 8  9  1 18    15.0 1   351.0     3.10    25.60    99.00    99.00
 8  9  1 19    15.0 1   348.0     3.60    24.50    99.00    99.00
 8  9  1 20    15.0 1   336.0     2.10    23.30    99.00    99.00
 8  9  1 21    15.0 1   326.0     0.50    22.00    99.00    99.00
 8  9  1 22    15.0 1   249.0     0.50    20.80    99.00    99.00
 8  9  1 23    15.0 1   255.0     0.50    19.80    99.00    99.00
 8  9  1 24    15.0 1     0.0     0.00    18.80    99.00    99.00
 8  9  2  1    15.0 1     0.0     0.00    18.10    99.00    99.00
 8  9  2  2    15.0 1   298.0     1.00    17.60    99.00    99.00
 8  9  2  3    15.0 1   300.0     2.10    17.10    99.00    99.00
 8  9  2  4    15.0 1   299.0     2.60    16.60    99.00    99.00
 8  9  2  5    15.0 1   301.0     2.60    16.30    99.00    99.00
 8  9  2  6    15.0 1   313.0     2.10    15.80    99.00    99.00
 8  9  2  7    15.0 1   315.0     2.10    16.10    99.00    99.00
 8  9  2  8    15.0 1   311.0     2.10    18.80    99.00    99.00
 8  9  2  9    15.0 1   302.0     1.50    21.10    99.00    99.00
 8  9  2 10    15.0 1   301.0     0.50    23.90    99.00    99.00
 8  9  2 11    15.0 1   309.0     0.50    26.50    99.00    99.00
 8  9  2 12    15.0 1     0.0     0.00    28.10    99.00    99.00
 8  9  2 13    15.0 1     0.0     0.00    29.60    99.00    99.00
 8  9  2 14    15.0 1   345.0     0.50    30.60    99.00    99.00
 8  9  2 15    15.0 1   356.0     1.50    31.30    99.00    99.00
 8  9  2 16    15.0 1     7.0     2.60    31.30    99.00    99.00
 8  9  2 17    15.0 1    16.0     2.60    30.30    99.00    99.00
 8  9  2 18    15.0 1    16.0     3.60    29.40    99.00    99.00
 8  9  2 19    15.0 1    25.0     2.10    28.10    99.00    99.00
 8  9  2 20    15.0 1   262.0     0.50    26.80    99.00    99.00
 8  9  2 21    15.0 1   262.0     2.10    25.40    99.00    99.00
 8  9  2 22    15.0 1   280.0     3.10    24.30    99.00    99.00
 8  9  2 23    15.0 1   288.0     2.10    23.10    99.00    99.00
 8  9  2 24    15.0 1   313.0     1.50    22.50    99.00    99.00
 8  9  3  1    15.0 1   313.0     1.00    21.80    99.00    99.00
 8  9  3  2    15.0 1   302.0     2.10    21.10    99.00    99.00
 8  9  3  3    15.0 1   312.0     3.10    20.10    99.00    99.00
 8  9  3  4    15.0 1   321.0     2.60    19.30    99.00    99.00
 8  9  3  5    15.0 1   304.0     2.10    18.60    99.00    99.00
 8  9  3  6    15.0 1   277.0     2.10    18.30    99.00    99.00
 8  9  3  7    15.0 1   286.0     2.10    18.50    99.00    99.00
 8  9  3  8    15.0 1   329.0     1.50    20.10    99.00    99.00
 8  9  3  9    15.0 1     0.0     0.00    22.10    99.00    99.00
 8  9  3 10    15.0 1     0.0     0.00    24.90    99.00    99.00
 8  9  3 11    15.0 1     0.0     0.00    26.90    99.00    99.00
 8  9  3 12    15.0 1     0.0     0.00    28.50    99.00    99.00
 8  9  3 13    15.0 1     0.0     0.00    30.10    99.00    99.00
 8  9  3 14    15.0 1   345.0     0.50    31.30    99.00    99.00
 8  9  3 15    15.0 1     5.0     1.50    31.90    99.00    99.00
 8  9  3 16    15.0 1     0.0     0.00    31.90    99.00    99.00
 8  9  3 17    15.0 1    12.0     2.60    31.10    99.00    99.00
 8  9  3 18    15.0 1    14.0     3.10    30.40    99.00    99.00
 8  9  3 19    15.0 1    14.0     2.10    29.00    99.00    99.00
 8  9  3 20    15.0 1   284.0     0.50    27.60    99.00    99.00
 8  9  3 21    15.0 1   271.0     2.10    26.40    99.00    99.00
 8  9  3 22    15.0 1   295.0     3.10    25.30    99.00    99.00
 8  9  3 23    15.0 1   297.0     3.10    24.10    99.00    99.00
 8  9  3 24    15.0 1   297.0     2.60    23.10    99.00    99.00
 8  9  4  1    15.0 1   324.0     1.00    22.60    99.00    99.00
 8  9  4  2    15.0 1   295.0     0.50    22.30    99.00    99.00
 8  9  4  3    15.0 1   278.0     1.50    21.60    99.00    99.00
 8  9  4  4    15.0 1   277.0     2.60    20.80    99.00    99.00
 8  9  4  5    15.0 1   295.0     3.10    20.10    99.00    99.00
 8  9  4  6    15.0 1   303.0     2.60    19.60    99.00    99.00
 8  9  4  7    15.0 1   312.0     2.10    19.60    99.00    99.00
 8  9  4  8    15.0 1   333.0     1.50    21.40    99.00    99.00
 8  9  4  9    15.0 1     0.0     0.00    23.40    99.00    99.00
 8  9  4 10    15.0 1     0.0     0.00    26.00    99.00    99.00
 8  9  4 11    15.0 1     0.0     0.00    27.80    99.00    99.00
 8  9  4 12    15.0 1     0.0     0.00    29.50    99.00    99.00
 8  9  4 13    15.0 1     0.0     0.00    31.00    99.00    99.00
 8  9  4 14    15.0 1   340.0     0.50    32.10    99.00    99.00
 8  9  4 15    15.0 1    15.0     1.50    32.80    99.00    99.00
 8  9  4 16    15.0 1    11.0     2.10    32.80    99.00    99.00
 8  9  4 17    15.0 1     8.0     2.10    32.10    99.00    99.00
 8  9  4 18    15.0 1    11.0     2.60    31.30    99.00    99.00
 8  9  4 19    15.0 1   358.0     1.50    29.80    99.00    99.00
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 8  9  4 20    15.0 1   287.0     1.50    28.40    99.00    99.00
 8  9  4 21    15.0 1   290.0     4.10    27.10    99.00    99.00
 8  9  4 22    15.0 1   286.0     4.10    24.60    99.00    99.00
 8  9  4 23    15.0 1   314.0     3.10    23.50    99.00    99.00
 8  9  4 24    15.0 1   344.0     2.60    22.90    99.00    99.00
 8  9  5  1    15.0 1    11.0     2.60    22.30    99.00    99.00
 8  9  5  2    15.0 1     8.0     1.50    21.90    99.00    99.00
 8  9  5  3    15.0 1   270.0     0.50    21.60    99.00    99.00
 8  9  5  4    15.0 1   252.0     1.00    21.30    99.00    99.00
 8  9  5  5    15.0 1   255.0     1.00    21.00    99.00    99.00
 8  9  5  6    15.0 1   250.0     1.00    20.60    99.00    99.00
 8  9  5  7    15.0 1   263.0     1.50    20.80    99.00    99.00
 8  9  5  8    15.0 1   322.0     1.50    22.40    99.00    99.00
 8  9  5  9    15.0 1     0.0     0.00    24.30    99.00    99.00
 8  9  5 10    15.0 1     0.0     0.00    26.30    99.00    99.00
 8  9  5 11    15.0 1     0.0     0.00    28.00    99.00    99.00
 8  9  5 12    15.0 1     0.0     0.00    29.60    99.00    99.00
 8  9  5 13    15.0 1     0.0     0.00    31.10    99.00    99.00
 8  9  5 14    15.0 1     0.0     0.00    32.40    99.00    99.00
 8  9  5 15    15.0 1   346.0     0.50    33.10    99.00    99.00
 8  9  5 16    15.0 1    12.0     1.50    33.30    99.00    99.00
 8  9  5 17    15.0 1     7.0     2.60    32.60    99.00    99.00
 8  9  5 18    15.0 1    14.0     3.60    31.40    99.00    99.00
 8  9  5 19    15.0 1    13.0     2.60    30.00    99.00    99.00
 8  9  5 20    15.0 1   304.0     1.00    28.60    99.00    99.00
 8  9  5 21    15.0 1   285.0     4.10    27.60    99.00    99.00
 8  9  5 22    15.0 1   301.0     4.10    25.60    99.00    99.00
 8  9  5 23    15.0 1   315.0     3.10    24.60    99.00    99.00
 8  9  5 24    15.0 1   354.0     2.10    24.00    99.00    99.00
 8  9  6  1    15.0 1    28.0     2.60    23.30    99.00    99.00
 8  9  6  2    15.0 1    27.0     1.50    22.80    99.00    99.00
 8  9  6  3    15.0 1    13.0     0.50    22.40    99.00    99.00
 8  9  6  4    15.0 1   272.0     0.50    22.00    99.00    99.00
 8  9  6  5    15.0 1   265.0     1.00    21.40    99.00    99.00
 8  9  6  6    15.0 1   264.0     1.00    21.00    99.00    99.00
 8  9  6  7    15.0 1   263.0     1.50    21.10    99.00    99.00
 8  9  6  8    15.0 1   313.0     1.50    22.80    99.00    99.00
 8  9  6  9    15.0 1     0.0     0.00    24.90    99.00    99.00
 8  9  6 10    15.0 1     0.0     0.00    27.50    99.00    99.00
 8  9  6 11    15.0 1     0.0     0.00    29.40    99.00    99.00
 8  9  6 12    15.0 1     0.0     0.00    31.10    99.00    99.00
 8  9  6 13    15.0 1     0.0     0.00    32.60    99.00    99.00
 8  9  6 14    15.0 1     0.0     0.00    33.60    99.00    99.00
 8  9  6 15    15.0 1   335.0     0.50    34.30    99.00    99.00
 8  9  6 16    15.0 1    35.0     0.50    34.50    99.00    99.00
 8  9  6 17    15.0 1    26.0     1.50    34.10    99.00    99.00
 8  9  6 18    15.0 1    31.0     2.10    32.90    99.00    99.00
 8  9  6 19    15.0 1   338.0     1.00    31.10    99.00    99.00
 8  9  6 20    15.0 1   269.0     2.60    29.50    99.00    99.00
 8  9  6 21    15.0 1   276.0     4.60    27.00    99.00    99.00
 8  9  6 22    15.0 1   285.0     3.60    25.10    99.00    99.00
 8  9  6 23    15.0 1   308.0     3.10    24.40    99.00    99.00
 8  9  6 24    15.0 1    17.0     2.10    23.80    99.00    99.00
 8  9  7  1    15.0 1    49.0     2.60    23.10    99.00    99.00
 8  9  7  2    15.0 1    39.0     1.50    22.80    99.00    99.00
 8  9  7  3    15.0 1    36.0     0.50    22.40    99.00    99.00
 8  9  7  4    15.0 1     0.0     0.00    21.90    99.00    99.00
 8  9  7  5    15.0 1   240.0     0.50    21.30    99.00    99.00
 8  9  7  6    15.0 1   259.0     1.00    20.80    99.00    99.00
 8  9  7  7    15.0 1   276.0     1.50    20.80    99.00    99.00
 8  9  7  8    15.0 1   320.0     1.50    22.60    99.00    99.00
 8  9  7  9    15.0 1     0.0     0.00    24.50    99.00    99.00
 8  9  7 10    15.0 1     0.0     0.00    26.80    99.00    99.00
 8  9  7 11    15.0 1     0.0     0.00    28.50    99.00    99.00
 8  9  7 12    15.0 1     0.0     0.00    30.10    99.00    99.00
 8  9  7 13    15.0 1     0.0     0.00    31.80    99.00    99.00
 8  9  7 14    15.0 1     0.0     0.00    32.90    99.00    99.00
 8  9  7 15    15.0 1   352.0     0.50    33.50    99.00    99.00
 8  9  7 16    15.0 1     9.0     1.50    33.60    99.00    99.00
 8  9  7 17    15.0 1    12.0     2.10    33.00    99.00    99.00
 8  9  7 18    15.0 1    23.0     2.60    32.10    99.00    99.00
 8  9  7 19    15.0 1   327.0     2.10    30.60    99.00    99.00
 8  9  7 20    15.0 1   280.0     5.10    28.30    99.00    99.00
 8  9  7 21    15.0 1   269.0     4.60    24.80    99.00    99.00
 8  9  7 22    15.0 1   275.0     3.60    23.60    99.00    99.00
 8  9  7 23    15.0 1   292.0     2.60    23.00    99.00    99.00
 8  9  7 24    15.0 1   325.0     2.10    22.40    99.00    99.00
```

8	9	8	1	15.0	1	319.0	2.10	21.80	99.00	99.00
8	9	8	2	15.0	1	309.0	2.10	21.50	99.00	99.00
8	9	8	3	15.0	1	298.0	2.10	21.10	99.00	99.00
8	9	8	4	15.0	1	297.0	1.50	20.90	99.00	99.00
8	9	8	5	15.0	1	324.0	1.50	20.40	99.00	99.00
8	9	8	6	15.0	1	328.0	1.50	19.90	99.00	99.00
8	9	8	7	15.0	1	355.0	2.10	19.90	99.00	99.00
8	9	8	8	15.0	1	352.0	1.50	21.00	99.00	99.00
8	9	8	9	15.0	1	0.0	0.00	23.10	99.00	99.00
8	9	8	10	15.0	1	0.0	0.00	24.90	99.00	99.00
8	9	8	11	15.0	1	0.0	0.00	26.60	99.00	99.00
8	9	8	12	15.0	1	0.0	0.00	28.80	99.00	99.00
8	9	8	13	15.0	1	0.0	0.00	30.40	99.00	99.00
8	9	8	14	15.0	1	335.0	0.50	31.50	99.00	99.00
8	9	8	15	15.0	1	4.0	1.50	32.10	99.00	99.00
8	9	8	16	15.0	1	15.0	3.10	32.00	99.00	99.00
8	9	8	17	15.0	1	21.0	3.10	31.10	99.00	99.00
8	9	8	18	15.0	1	15.0	3.10	30.40	99.00	99.00
8	9	8	19	15.0	1	299.0	3.60	29.60	99.00	99.00
8	9	8	20	15.0	1	279.0	5.10	26.10	99.00	99.00
8	9	8	21	15.0	1	269.0	4.60	23.60	99.00	99.00
8	9	8	22	15.0	1	279.0	4.10	22.60	99.00	99.00
8	9	8	23	15.0	1	323.0	3.10	22.00	99.00	99.00
8	9	8	24	15.0	1	360.0	3.60	21.30	99.00	99.00
8	9	9	1	15.0	1	345.0	3.60	20.40	99.00	99.00
8	9	9	2	15.0	1	339.0	3.60	19.90	99.00	99.00
8	9	9	3	15.0	1	329.0	3.10	19.60	99.00	99.00
8	9	9	4	15.0	1	330.0	3.10	19.50	99.00	99.00
8	9	9	5	15.0	1	330.0	3.10	19.30	99.00	99.00
8	9	9	6	15.0	1	335.0	2.60	19.10	99.00	99.00
8	9	9	7	15.0	1	336.0	1.50	19.10	99.00	99.00
8	9	9	8	15.0	1	345.0	1.50	20.90	99.00	99.00
8	9	9	9	15.0	1	323.0	1.00	22.60	99.00	99.00
8	9	9	10	15.0	1	317.0	0.50	24.10	99.00	99.00
8	9	9	11	15.0	1	0.0	0.00	25.60	99.00	99.00
8	9	9	12	15.0	1	0.0	0.00	27.00	99.00	99.00
8	9	9	13	15.0	1	0.0	0.00	28.40	99.00	99.00
8	9	9	14	15.0	1	336.0	0.50	29.10	99.00	99.00
8	9	9	15	15.0	1	356.0	1.50	29.60	99.00	99.00
8	9	9	16	15.0	1	0.0	0.00	29.80	99.00	99.00
8	9	9	17	15.0	1	10.0	2.60	29.40	99.00	99.00
8	9	9	18	15.0	1	346.0	3.10	28.60	99.00	99.00
8	9	9	19	15.0	1	293.0	4.60	26.40	99.00	99.00
8	9	9	20	15.0	1	268.0	5.10	22.40	99.00	99.00
8	9	9	21	15.0	1	275.0	5.10	20.60	99.00	99.00
8	9	9	22	15.0	1	274.0	4.10	19.60	99.00	99.00
8	9	9	23	15.0	1	280.0	3.10	18.60	99.00	99.00
8	9	9	24	15.0	1	299.0	1.50	18.10	99.00	99.00
8	9	10	1	15.0	1	309.0	1.00	17.60	99.00	99.00
8	9	10	2	15.0	1	298.0	1.50	17.10	99.00	99.00
8	9	10	3	15.0	1	289.0	1.50	16.80	99.00	99.00
8	9	10	4	15.0	1	283.0	1.50	16.60	99.00	99.00
8	9	10	5	15.0	1	295.0	1.50	16.40	99.00	99.00
8	9	10	6	15.0	1	294.0	0.50	16.10	99.00	99.00
8	9	10	7	15.0	1	289.0	1.00	16.80	99.00	99.00
8	9	10	8	15.0	1	308.0	0.50	18.60	99.00	99.00
8	9	10	9	15.0	1	0.0	0.00	20.30	99.00	99.00
8	9	10	10	15.0	1	0.0	0.00	22.00	99.00	99.00
8	9	10	11	15.0	1	0.0	0.00	23.60	99.00	99.00
8	9	10	12	15.0	1	0.0	0.00	25.10	99.00	99.00
8	9	10	13	15.0	1	0.0	0.00	26.50	99.00	99.00
8	9	10	14	15.0	1	336.0	1.00	27.40	99.00	99.00
8	9	10	15	15.0	1	13.0	2.10	27.90	99.00	99.00
8	9	10	16	15.0	1	13.0	3.60	27.90	99.00	99.00
8	9	10	17	15.0	1	12.0	2.60	27.60	99.00	99.00
8	9	10	18	15.0	1	359.0	2.60	27.10	99.00	99.00
8	9	10	19	15.0	1	283.0	2.60	26.10	99.00	99.00
8	9	10	20	15.0	1	266.0	4.10	25.00	99.00	99.00
8	9	10	21	15.0	1	302.0	3.60	23.40	99.00	99.00
8	9	10	22	15.0	1	298.0	3.10	21.80	99.00	99.00
8	9	10	23	15.0	1	291.0	3.60	20.40	99.00	99.00
8	9	10	24	15.0	1	295.0	3.10	19.60	99.00	99.00
8	9	11	1	15.0	1	280.0	2.60	19.30	99.00	99.00
8	9	11	2	15.0	1	275.0	2.60	19.10	99.00	99.00
8	9	11	3	15.0	1	283.0	2.60	19.00	99.00	99.00
8	9	11	4	15.0	1	266.0	2.10	18.80	99.00	99.00
8	9	11	5	15.0	1	268.0	2.10	18.50	99.00	99.00

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 8  9 11  6    15.0 1   246.0     1.50    18.10    99.00    99.00
 8  9 11  7    15.0 1   247.0     1.50    18.10    99.00    99.00
 8  9 11  8    15.0 1   329.0     1.50    19.60    99.00    99.00
 8  9 11  9    15.0 1     0.0     0.00    21.30    99.00    99.00
 8  9 11 10    15.0 1     0.0     0.00    22.90    99.00    99.00
 8  9 11 11    15.0 1     0.0     0.00    24.60    99.00    99.00
 8  9 11 12    15.0 1     0.0     0.00    26.10    99.00    99.00
 8  9 11 13    15.0 1     0.0     0.00    27.40    99.00    99.00
 8  9 11 14    15.0 1   328.0     0.50    28.40    99.00    99.00
 8  9 11 15    15.0 1     0.0     0.00    29.10    99.00    99.00
 8  9 11 16    15.0 1    19.0     1.50    29.00    99.00    99.00
 8  9 11 17    15.0 1    34.0     2.10    28.50    99.00    99.00
 8  9 11 18    15.0 1    44.0     2.10    27.80    99.00    99.00
 8  9 11 19    15.0 1    53.0     1.00    26.40    99.00    99.00
 8  9 11 20    15.0 1     0.0     0.00    24.80    99.00    99.00
 8  9 11 21    15.0 1     0.0     0.00    23.40    99.00    99.00
 8  9 11 22    15.0 1    80.0     0.50    22.30    99.00    99.00
 8  9 11 23    15.0 1    89.0     1.00    21.10    99.00    99.00
 8  9 11 24    15.0 1    47.0     0.50    20.40    99.00    99.00
 8  9 12  1    15.0 1   350.0     1.00    19.60    99.00    99.00
 8  9 12  2    15.0 1   330.0     1.50    19.30    99.00    99.00
 8  9 12  3    15.0 1   326.0     2.60    18.80    99.00    99.00
 8  9 12  4    15.0 1   327.0     3.10    17.80    99.00    99.00
 8  9 12  5    15.0 1   330.0     2.60    17.00    99.00    99.00
 8  9 12  6    15.0 1   307.0     2.10    16.60    99.00    99.00
 8  9 12  7    15.0 1   295.0     1.50    16.60    99.00    99.00
 8  9 12  8    15.0 1   321.0     1.50    18.50    99.00    99.00
 8  9 12  9    15.0 1     0.0     0.00    20.60    99.00    99.00
 8  9 12 10    15.0 1     0.0     0.00    22.60    99.00    99.00
 8  9 12 11    15.0 1     0.0     0.00    24.50    99.00    99.00
 8  9 12 12    15.0 1     0.0     0.00    26.50    99.00    99.00
 8  9 12 13    15.0 1     0.0     0.00    28.00    99.00    99.00
 8  9 12 14    15.0 1     0.0     0.00    29.00    99.00    99.00
 8  9 12 15    15.0 1   350.0     1.00    29.60    99.00    99.00
 8  9 12 16    15.0 1     1.0     1.50    29.80    99.00    99.00
 8  9 12 17    15.0 1     9.0     2.10    29.10    99.00    99.00
 8  9 12 18    15.0 1    23.0     3.60    28.00    99.00    99.00
 8  9 12 19    15.0 1    29.0     3.60    26.50    99.00    99.00
 8  9 12 20    15.0 1   344.0     1.00    25.30    99.00    99.00
 8  9 12 21    15.0 1   276.0     4.60    23.60    99.00    99.00
 8  9 12 22    15.0 1   278.0     4.60    21.00    99.00    99.00
 8  9 12 23    15.0 1   284.0     3.10    20.10    99.00    99.00
 8  9 12 24    15.0 1   297.0     1.50    19.80    99.00    99.00
 8  9 13  1    15.0 1   296.0     1.00    19.50    99.00    99.00
 8  9 13  2    15.0 1   290.0     1.50    19.10    99.00    99.00
 8  9 13  3    15.0 1   300.0     2.10    18.60    99.00    99.00
 8  9 13  4    15.0 1   307.0     2.60    17.90    99.00    99.00
 8  9 13  5    15.0 1   310.0     2.10    17.10    99.00    99.00
 8  9 13  6    15.0 1   311.0     1.50    16.80    99.00    99.00
 8  9 13  7    15.0 1   310.0     1.50    16.80    99.00    99.00
 8  9 13  8    15.0 1   335.0     1.00    18.30    99.00    99.00
 8  9 13  9    15.0 1     0.0     0.00    20.60    99.00    99.00
 8  9 13 10    15.0 1     0.0     0.00    22.60    99.00    99.00
 8  9 13 11    15.0 1     0.0     0.00    24.50    99.00    99.00
 8  9 13 12    15.0 1     0.0     0.00    26.60    99.00    99.00
 8  9 13 13    15.0 1     0.0     0.00    28.40    99.00    99.00
 8  9 13 14    15.0 1   317.0     0.50    29.50    99.00    99.00
 8  9 13 15    15.0 1   341.0     1.00    30.10    99.00    99.00
 8  9 13 16    15.0 1   359.0     1.50    30.30    99.00    99.00
 8  9 13 17    15.0 1    11.0     2.10    29.60    99.00    99.00
 8  9 13 18    15.0 1    19.0     2.60    28.80    99.00    99.00
 8  9 13 19    15.0 1     6.0     1.50    27.40    99.00    99.00
 8  9 13 20    15.0 1   275.0     3.10    26.10    99.00    99.00
 8  9 13 21    15.0 1   277.0     4.60    23.00    99.00    99.00
 8  9 13 22    15.0 1   290.0     3.60    21.30    99.00    99.00
 8  9 13 23    15.0 1   312.0     3.10    20.60    99.00    99.00
 8  9 13 24    15.0 1   350.0     2.10    20.10    99.00    99.00
 8  9 14  1    15.0 1    14.0     1.50    19.80    99.00    99.00
 8  9 14  2    15.0 1   352.0     1.00    19.40    99.00    99.00
 8  9 14  3    15.0 1   291.0     0.50    19.10    99.00    99.00
 8  9 14  4    15.0 1   296.0     1.00    18.50    99.00    99.00
 8  9 14  5    15.0 1   317.0     1.50    17.90    99.00    99.00
 8  9 14  6    15.0 1   341.0     1.00    17.10    99.00    99.00
 8  9 14  7    15.0 1     0.0     0.00    17.00    99.00    99.00
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 8  9 14 10    15.0 1     0.0     0.00    23.60    99.00    99.00
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 8  9 14 11    15.0 1     0.0     0.00    25.60    99.00    99.00
 8  9 14 12    15.0 1     0.0     0.00    27.60    99.00    99.00
 8  9 14 13    15.0 1     0.0     0.00    29.10    99.00    99.00
 8  9 14 14    15.0 1     0.0     0.00    30.30    99.00    99.00
 8  9 14 15    15.0 1     8.0     2.10    30.80    99.00    99.00
 8  9 14 16    15.0 1    20.0     3.10    30.60    99.00    99.00
 8  9 14 17    15.0 1    22.0     3.10    29.80    99.00    99.00
 8  9 14 18    15.0 1    22.0     3.10    28.60    99.00    99.00
 8  9 14 19    15.0 1   341.0     2.10    27.50    99.00    99.00
 8  9 14 20    15.0 1   279.0     4.60    26.10    99.00    99.00
 8  9 14 21    15.0 1   278.0     4.10    22.60    99.00    99.00
 8  9 14 22    15.0 1   300.0     3.10    21.60    99.00    99.00
 8  9 14 23    15.0 1   325.0     2.60    21.10    99.00    99.00
 8  9 14 24    15.0 1   300.0     1.50    20.80    99.00    99.00
 8  9 15  1    15.0 1   302.0     1.50    20.30    99.00    99.00
 8  9 15  2    15.0 1   308.0     1.50    19.60    99.00    99.00
 8  9 15  3    15.0 1   298.0     1.00    19.00    99.00    99.00
 8  9 15  4    15.0 1   296.0     0.50    18.40    99.00    99.00
 8  9 15  5    15.0 1   322.0     0.50    17.90    99.00    99.00
 8  9 15  6    15.0 1     4.0     0.50    17.40    99.00    99.00
 8  9 15  7    15.0 1     0.0     0.00    17.10    99.00    99.00
 8  9 15  8    15.0 1   340.0     1.00    18.60    99.00    99.00
 8  9 15  9    15.0 1     0.0     0.00    20.60    99.00    99.00
 8  9 15 10    15.0 1     0.0     0.00    23.10    99.00    99.00
 8  9 15 11    15.0 1     0.0     0.00    25.10    99.00    99.00
 8  9 15 12    15.0 1   300.0     0.50    27.10    99.00    99.00
 8  9 15 13    15.0 1   323.0     0.50    28.60    99.00    99.00
 8  9 15 14    15.0 1     0.0     0.00    29.90    99.00    99.00
 8  9 15 15    15.0 1    31.0     1.50    30.60    99.00    99.00
 8  9 15 16    15.0 1    32.0     2.60    30.60    99.00    99.00
 8  9 15 17    15.0 1    19.0     2.60    29.80    99.00    99.00
 8  9 15 18    15.0 1    14.0     2.60    28.80    99.00    99.00
 8  9 15 19    15.0 1   304.0     1.00    27.30    99.00    99.00
 8  9 15 20    15.0 1   260.0     2.60    26.10    99.00    99.00
 8  9 15 21    15.0 1   281.0     4.60    23.40    99.00    99.00
 8  9 15 22    15.0 1   286.0     3.60    21.50    99.00    99.00
 8  9 15 23    15.0 1   317.0     2.60    21.10    99.00    99.00
 8  9 15 24    15.0 1   324.0     2.10    20.80    99.00    99.00
 8  9 16  1    15.0 1   329.0     2.60    20.30    99.00    99.00
 8  9 16  2    15.0 1   343.0     2.10    19.50    99.00    99.00
 8  9 16  3    15.0 1   338.0     2.10    18.60    99.00    99.00
 8  9 16  4    15.0 1   322.0     2.10    18.10    99.00    99.00
 8  9 16  5    15.0 1   330.0     1.50    17.50    99.00    99.00
 8  9 16  6    15.0 1   352.0     1.50    17.10    99.00    99.00
 8  9 16  7    15.0 1    15.0     0.50    16.90    99.00    99.00
 8  9 16  8    15.0 1   350.0     1.00    18.40    99.00    99.00
 8  9 16  9    15.0 1     0.0     0.00    20.30    99.00    99.00
 8  9 16 10    15.0 1     0.0     0.00    22.60    99.00    99.00
 8  9 16 11    15.0 1     0.0     0.00    24.60    99.00    99.00
 8  9 16 12    15.0 1     0.0     0.00    26.60    99.00    99.00
 8  9 16 13    15.0 1   322.0     0.50    28.30    99.00    99.00
 8  9 16 14    15.0 1   334.0     0.50    29.60    99.00    99.00
 8  9 16 15    15.0 1   350.0     1.00    30.40    99.00    99.00
 8  9 16 16    15.0 1    14.0     2.60    30.80    99.00    99.00
 8  9 16 17    15.0 1    25.0     3.10    29.90    99.00    99.00
 8  9 16 18    15.0 1     5.0     2.60    29.00    99.00    99.00
 8  9 16 19    15.0 1   276.0     5.10    27.30    99.00    99.00
 8  9 16 20    15.0 1   266.0     5.70    22.60    99.00    99.00
 8  9 16 21    15.0 1   268.0     5.10    21.00    99.00    99.00
 8  9 16 22    15.0 1   277.0     3.60    20.00    99.00    99.00
 8  9 16 23    15.0 1   327.0     2.10    19.60    99.00    99.00
 8  9 16 24    15.0 1   328.0     2.10    19.10    99.00    99.00
 8  9 17  1    15.0 1   319.0     3.10    18.60    99.00    99.00
 8  9 17  2    15.0 1   310.0     3.10    18.00    99.00    99.00
 8  9 17  3    15.0 1   319.0     2.60    17.60    99.00    99.00
 8  9 17  4    15.0 1   340.0     2.60    17.30    99.00    99.00
 8  9 17  5    15.0 1   347.0     2.10    16.80    99.00    99.00
 8  9 17  6    15.0 1   351.0     1.50    16.40    99.00    99.00
 8  9 17  7    15.0 1   349.0     1.50    16.30    99.00    99.00
 8  9 17  8    15.0 1   347.0     1.00    17.50    99.00    99.00
 8  9 17  9    15.0 1     0.0     0.00    19.50    99.00    99.00
 8  9 17 10    15.0 1     0.0     0.00    21.40    99.00    99.00
 8  9 17 11    15.0 1     0.0     0.00    23.10    99.00    99.00
 8  9 17 12    15.0 1   315.0     0.50    25.10    99.00    99.00
 8  9 17 13    15.0 1   319.0     1.00    26.50    99.00    99.00
 8  9 17 14    15.0 1   326.0     1.50    27.50    99.00    99.00
 8  9 17 15    15.0 1   340.0     2.60    28.10    99.00    99.00
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 8  9 17 16    15.0 1   358.0     3.10    28.10    99.00    99.00
 8  9 17 17    15.0 1     8.0     2.60    27.50    99.00    99.00
 8  9 17 18    15.0 1    24.0     3.60    26.50    99.00    99.00
 8  9 17 19    15.0 1     6.0     2.10    25.50    99.00    99.00
 8  9 17 20    15.0 1   279.0     2.60    24.60    99.00    99.00
 8  9 17 21    15.0 1   266.0     5.10    21.60    99.00    99.00
 8  9 17 22    15.0 1   277.0     4.60    19.50    99.00    99.00
 8  9 17 23    15.0 1   288.0     3.10    18.60    99.00    99.00
 8  9 17 24    15.0 1   309.0     3.10    18.10    99.00    99.00
 8  9 18  1    15.0 1   322.0     3.10    18.00    99.00    99.00
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 8  9 18  3    15.0 1   350.0     2.10    17.10    99.00    99.00
 8  9 18  4    15.0 1     0.0     0.00    16.60    99.00    99.00
 8  9 18  5    15.0 1     0.0     0.00    16.10    99.00    99.00
 8  9 18  6    15.0 1   352.0     1.00    15.60    99.00    99.00
 8  9 18  7    15.0 1   347.0     1.00    15.50    99.00    99.00
 8  9 18  8    15.0 1   352.0     1.50    16.80    99.00    99.00
 8  9 18  9    15.0 1     0.0     0.00    19.00    99.00    99.00
 8  9 18 10    15.0 1     0.0     0.00    20.90    99.00    99.00
 8  9 18 11    15.0 1     0.0     0.00    22.60    99.00    99.00
 8  9 18 12    15.0 1     0.0     0.00    24.50    99.00    99.00
 8  9 18 13    15.0 1   307.0     0.50    25.80    99.00    99.00
 8  9 18 14    15.0 1   327.0     1.00    26.80    99.00    99.00
 8  9 18 15    15.0 1   345.0     1.50    27.40    99.00    99.00
 8  9 18 16    15.0 1     4.0     2.60    27.50    99.00    99.00
 8  9 18 17    15.0 1     9.0     2.10    27.00    99.00    99.00
 8  9 18 18    15.0 1    16.0     2.60    26.10    99.00    99.00
 8  9 18 19    15.0 1   345.0     1.50    25.10    99.00    99.00
 8  9 18 20    15.0 1   277.0     5.10    22.50    99.00    99.00
 8  9 18 21    15.0 1   270.0     4.60    19.10    99.00    99.00
 8  9 18 22    15.0 1   275.0     4.10    18.00    99.00    99.00
 8  9 18 23    15.0 1   281.0     3.60    17.10    99.00    99.00
 8  9 18 24    15.0 1   303.0     2.60    16.60    99.00    99.00
 8  9 19  1    15.0 1   330.0     2.10    16.10    99.00    99.00
 8  9 19  2    15.0 1   337.0     2.60    15.90    99.00    99.00
 8  9 19  3    15.0 1   330.0     2.10    15.40    99.00    99.00
 8  9 19  4    15.0 1   320.0     2.10    14.90    99.00    99.00
 8  9 19  5    15.0 1   309.0     1.50    14.50    99.00    99.00
 8  9 19  6    15.0 1   311.0     1.00    14.10    99.00    99.00
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 8  9 19 10    15.0 1     0.0     0.00    19.00    99.00    99.00
 8  9 19 11    15.0 1     0.0     0.00    20.90    99.00    99.00
 8  9 19 12    15.0 1     0.0     0.00    22.50    99.00    99.00
 8  9 19 13    15.0 1     0.0     0.00    24.10    99.00    99.00
 8  9 19 14    15.0 1     0.0     0.00    25.10    99.00    99.00
 8  9 19 15    15.0 1   300.0     0.50    25.90    99.00    99.00
 8  9 19 16    15.0 1     3.0     1.00    26.10    99.00    99.00
 8  9 19 17    15.0 1    32.0     1.50    25.90    99.00    99.00
 8  9 19 18    15.0 1    45.0     2.10    24.90    99.00    99.00
 8  9 19 19    15.0 1    14.0     1.50    23.40    99.00    99.00
 8  9 19 20    15.0 1   281.0     3.10    22.10    99.00    99.00
 8  9 19 21    15.0 1   277.0     4.10    19.10    99.00    99.00
 8  9 19 22    15.0 1   267.0     4.10    17.60    99.00    99.00
 8  9 19 23    15.0 1   267.0     4.10    17.00    99.00    99.00
 8  9 19 24    15.0 1   270.0     3.10    16.60    99.00    99.00
 8  9 20  1    15.0 1   266.0     1.50    16.40    99.00    99.00
 8  9 20  2    15.0 1     0.0     0.00    16.40    99.00    99.00
 8  9 20  3    15.0 1     0.0     0.00    16.40    99.00    99.00
 8  9 20  4    15.0 1   358.0     0.50    16.50    99.00    99.00
 8  9 20  5    15.0 1   329.0     0.50    16.60    99.00    99.00
 8  9 20  6    15.0 1   312.0     1.50    16.60    99.00    99.00
 8  9 20  7    15.0 1   297.0     1.50    16.60    99.00    99.00
 8  9 20  8    15.0 1   303.0     1.50    16.90    99.00    99.00
 8  9 20  9    15.0 1   318.0     1.50    17.40    99.00    99.00
 8  9 20 10    15.0 1     0.0     0.00    19.10    99.00    99.00
 8  9 20 11    15.0 1     0.0     0.00    20.30    99.00    99.00
 8  9 20 12    15.0 1     0.0     0.00    21.00    99.00    99.00
 8  9 20 13    15.0 1     0.0     0.00    22.10    99.00    99.00
 8  9 20 14    15.0 1     0.0     0.00    23.10    99.00    99.00
 8  9 20 15    15.0 1    23.0     0.50    23.80    99.00    99.00
 8  9 20 16    15.0 1     8.0     1.00    24.10    99.00    99.00
 8  9 20 17    15.0 1    28.0     1.50    24.10    99.00    99.00
 8  9 20 18    15.0 1    42.0     2.60    23.60    99.00    99.00
 8  9 20 19    15.0 1    52.0     2.60    22.40    99.00    99.00
 8  9 20 20    15.0 1    72.0     2.10    21.10    99.00    99.00
```

8	9	20	21	15.0	1	85.0	0.50	20.00	99.00	99.00
8	9	20	22	15.0	1	335.0	1.50	19.10	99.00	99.00
8	9	20	23	15.0	1	333.0	2.60	18.30	99.00	99.00
8	9	20	24	15.0	1	329.0	2.60	17.60	99.00	99.00
8	9	21	1	15.0	1	340.0	2.10	17.10	99.00	99.00
8	9	21	2	15.0	1	342.0	1.50	16.60	99.00	99.00
8	9	21	3	15.0	1	334.0	1.00	16.10	99.00	99.00
8	9	21	4	15.0	1	325.0	1.00	15.90	99.00	99.00
8	9	21	5	15.0	1	321.0	1.50	15.50	99.00	99.00
8	9	21	6	15.0	1	335.0	2.10	15.10	99.00	99.00
8	9	21	7	15.0	1	326.0	2.10	15.10	99.00	99.00
8	9	21	8	15.0	1	331.0	2.10	15.60	99.00	99.00
8	9	21	9	15.0	1	324.0	2.10	16.10	99.00	99.00
8	9	21	10	15.0	1	302.0	0.50	18.10	99.00	99.00
8	9	21	11	15.0	1	0.0	0.00	20.10	99.00	99.00
8	9	21	12	15.0	1	0.0	0.00	21.40	99.00	99.00
8	9	21	13	15.0	1	0.0	0.00	22.40	99.00	99.00
8	9	21	14	15.0	1	342.0	0.50	23.10	99.00	99.00
8	9	21	15	15.0	1	352.0	1.50	23.60	99.00	99.00
8	9	21	16	15.0	1	350.0	3.10	25.00	99.00	99.00
8	9	21	17	15.0	1	356.0	3.10	24.50	99.00	99.00
8	9	21	18	15.0	1	351.0	4.10	22.90	99.00	99.00
8	9	21	19	15.0	1	341.0	3.60	21.30	99.00	99.00
8	9	21	20	15.0	1	330.0	3.60	20.50	99.00	99.00
8	9	21	21	15.0	1	318.0	3.10	19.60	99.00	99.00
8	9	21	22	15.0	1	310.0	3.10	18.80	99.00	99.00
8	9	21	23	15.0	1	307.0	2.60	18.00	99.00	99.00
8	9	21	24	15.0	1	320.0	2.60	17.10	99.00	99.00
8	9	22	1	15.0	1	332.0	2.60	16.60	99.00	99.00
8	9	22	2	15.0	1	335.0	1.50	16.10	99.00	99.00
8	9	22	3	15.0	1	308.0	1.00	15.60	99.00	99.00
8	9	22	4	15.0	1	308.0	0.50	15.10	99.00	99.00
8	9	22	5	15.0	1	0.0	0.00	14.90	99.00	99.00
8	9	22	6	15.0	1	0.0	0.00	14.40	99.00	99.00
8	9	22	7	15.0	1	0.0	0.00	14.00	99.00	99.00
8	9	22	8	15.0	1	0.0	0.00	16.10	99.00	99.00
8	9	22	9	15.0	1	0.0	0.00	17.90	99.00	99.00
8	9	22	10	15.0	1	0.0	0.00	19.60	99.00	99.00
8	9	22	11	15.0	1	0.0	0.00	21.40	99.00	99.00
8	9	22	12	15.0	1	296.0	0.50	22.90	99.00	99.00
8	9	22	13	15.0	1	306.0	1.00	24.10	99.00	99.00
8	9	22	14	15.0	1	312.0	1.50	25.10	99.00	99.00
8	9	22	15	15.0	1	326.0	2.10	25.60	99.00	99.00
8	9	22	16	15.0	1	340.0	2.60	25.60	99.00	99.00
8	9	22	17	15.0	1	5.0	2.10	25.10	99.00	99.00
8	9	22	18	15.0	1	21.0	2.60	24.40	99.00	99.00
8	9	22	19	15.0	1	44.0	1.50	23.10	99.00	99.00
8	9	22	20	15.0	1	0.0	0.00	21.60	99.00	99.00
8	9	22	21	15.0	1	0.0	0.00	20.30	99.00	99.00
8	9	22	22	15.0	1	0.0	0.00	19.10	99.00	99.00
8	9	22	23	15.0	1	0.0	0.00	18.10	99.00	99.00
8	9	22	24	15.0	1	78.0	0.50	17.40	99.00	99.00
8	9	23	1	15.0	1	91.0	0.50	16.60	99.00	99.00
8	9	23	2	15.0	1	122.0	0.50	16.10	99.00	99.00
8	9	23	3	15.0	1	131.0	0.50	15.60	99.00	99.00
8	9	23	4	15.0	1	0.0	0.00	15.30	99.00	99.00
8	9	23	5	15.0	1	288.0	0.50	15.00	99.00	99.00
8	9	23	6	15.0	1	301.0	1.50	14.80	99.00	99.00
8	9	23	7	15.0	1	297.0	1.50	14.60	99.00	99.00
8	9	23	8	15.0	1	310.0	1.50	17.30	99.00	99.00
8	9	23	9	15.0	1	301.0	1.00	19.40	99.00	99.00
8	9	23	10	15.0	1	282.0	0.50	21.90	99.00	99.00
8	9	23	11	15.0	1	0.0	0.00	24.10	99.00	99.00
8	9	23	12	15.0	1	0.0	0.00	25.90	99.00	99.00
8	9	23	13	15.0	1	0.0	0.00	27.40	99.00	99.00
8	9	23	14	15.0	1	0.0	0.00	28.40	99.00	99.00
8	9	23	15	15.0	1	344.0	0.50	29.00	99.00	99.00
8	9	23	16	15.0	1	6.0	1.50	29.10	99.00	99.00
8	9	23	17	15.0	1	18.0	2.60	28.50	99.00	99.00
8	9	23	18	15.0	1	31.0	4.10	26.80	99.00	99.00
8	9	23	19	15.0	1	26.0	3.60	25.30	99.00	99.00
8	9	23	20	15.0	1	26.0	1.50	24.10	99.00	99.00
8	9	23	21	15.0	1	268.0	2.60	22.80	99.00	99.00
8	9	23	22	15.0	1	281.0	4.10	21.30	99.00	99.00
8	9	23	23	15.0	1	286.0	3.10	20.40	99.00	99.00
8	9	23	24	15.0	1	306.0	2.10	19.80	99.00	99.00
8	9	24	1	15.0	1	7.0	1.00	19.10	99.00	99.00

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 8  9 24  2    15.0 1    20.0     1.00    18.60    99.00    99.00
 8  9 24  3    15.0 1     7.0     0.50    18.00    99.00    99.00
 8  9 24  4    15.0 1   344.0     0.50    17.40    99.00    99.00
 8  9 24  5    15.0 1   312.0     1.50    17.00    99.00    99.00
 8  9 24  6    15.0 1   307.0     1.50    16.60    99.00    99.00
 8  9 24  7    15.0 1   296.0     2.10    16.40    99.00    99.00
 8  9 24  8    15.0 1   319.0     2.10    18.40    99.00    99.00
 8  9 24  9    15.0 1   299.0     1.50    20.40    99.00    99.00
 8  9 24 10    15.0 1   304.0     0.50    22.80    99.00    99.00
 8  9 24 11    15.0 1   304.0     0.50    25.40    99.00    99.00
 8  9 24 12    15.0 1     0.0     0.00    27.10    99.00    99.00
 8  9 24 13    15.0 1     0.0     0.00    28.50    99.00    99.00
 8  9 24 14    15.0 1   345.0     0.50    29.50    99.00    99.00
 8  9 24 15    15.0 1     0.0     0.00    30.10    99.00    99.00
 8  9 24 16    15.0 1    12.0     2.60    29.90    99.00    99.00
 8  9 24 17    15.0 1    21.0     3.10    29.10    99.00    99.00
 8  9 24 18    15.0 1    28.0     3.60    27.90    99.00    99.00
 8  9 24 19    15.0 1    28.0     1.50    26.60    99.00    99.00
 8  9 24 20    15.0 1   260.0     1.50    25.30    99.00    99.00
 8  9 24 21    15.0 1   267.0     4.60    23.30    99.00    99.00
 8  9 24 22    15.0 1   281.0     4.10    21.10    99.00    99.00
 8  9 24 23    15.0 1   278.0     3.10    20.60    99.00    99.00
 8  9 24 24    15.0 1   298.0     1.50    20.40    99.00    99.00
 8  9 25  1    15.0 1   297.0     1.00    20.10    99.00    99.00
 8  9 25  2    15.0 1   302.0     1.00    19.60    99.00    99.00
 8  9 25  3    15.0 1   315.0     0.50    19.10    99.00    99.00
 8  9 25  4    15.0 1   291.0     0.50    18.60    99.00    99.00
 8  9 25  5    15.0 1     0.0     0.00    18.00    99.00    99.00
 8  9 25  6    15.0 1     0.0     0.00    17.60    99.00    99.00
 8  9 25  7    15.0 1    13.0     0.50    17.10    99.00    99.00
 8  9 25  8    15.0 1   344.0     0.50    18.60    99.00    99.00
 8  9 25  9    15.0 1     0.0     0.00    20.80    99.00    99.00
 8  9 25 10    15.0 1     0.0     0.00    23.10    99.00    99.00
 8  9 25 11    15.0 1     0.0     0.00    24.90    99.00    99.00
 8  9 25 12    15.0 1   320.0     0.50    26.50    99.00    99.00
 8  9 25 13    15.0 1   353.0     0.50    28.00    99.00    99.00
 8  9 25 14    15.0 1     1.0     1.50    29.10    99.00    99.00
 8  9 25 15    15.0 1    15.0     2.10    29.80    99.00    99.00
 8  9 25 16    15.0 1    14.0     2.60    29.80    99.00    99.00
 8  9 25 17    15.0 1    10.0     2.60    29.10    99.00    99.00
 8  9 25 18    15.0 1   357.0     3.10    28.10    99.00    99.00
 8  9 25 19    15.0 1   333.0     2.10    27.10    99.00    99.00
 8  9 25 20    15.0 1   277.0     2.60    26.10    99.00    99.00
 8  9 25 21    15.0 1   269.0     4.10    24.50    99.00    99.00
 8  9 25 22    15.0 1   292.0     3.60    22.60    99.00    99.00
 8  9 25 23    15.0 1   304.0     3.60    22.00    99.00    99.00
 8  9 25 24    15.0 1   318.0     2.60    21.60    99.00    99.00
 8  9 26  1    15.0 1   325.0     2.10    21.10    99.00    99.00
 8  9 26  2    15.0 1   342.0     1.50    20.60    99.00    99.00
 8  9 26  3    15.0 1     0.0     0.00    20.10    99.00    99.00
 8  9 26  4    15.0 1    33.0     0.50    19.60    99.00    99.00
 8  9 26  5    15.0 1    70.0     0.50    19.10    99.00    99.00
 8  9 26  6    15.0 1    78.0     0.50    18.60    99.00    99.00
 8  9 26  7    15.0 1    82.0     0.50    18.40    99.00    99.00
 8  9 26  8    15.0 1    35.0     0.50    20.10    99.00    99.00
 8  9 26  9    15.0 1     0.0     0.00    22.00    99.00    99.00
 8  9 26 10    15.0 1     0.0     0.00    23.80    99.00    99.00
 8  9 26 11    15.0 1     0.0     0.00    25.30    99.00    99.00
 8  9 26 12    15.0 1     0.0     0.00    27.00    99.00    99.00
 8  9 26 13    15.0 1   314.0     0.50    28.60    99.00    99.00
 8  9 26 14    15.0 1   340.0     1.00    29.60    99.00    99.00
 8  9 26 15    15.0 1     0.0     0.00    30.10    99.00    99.00
 8  9 26 16    15.0 1     0.0     0.00    30.40    99.00    99.00
 8  9 26 17    15.0 1    12.0     2.60    29.80    99.00    99.00
 8  9 26 18    15.0 1    11.0     3.10    28.80    99.00    99.00
 8  9 26 19    15.0 1   354.0     1.50    27.60    99.00    99.00
 8  9 26 20    15.0 1   273.0     3.60    26.50    99.00    99.00
 8  9 26 21    15.0 1   268.0     4.10    23.50    99.00    99.00
 8  9 26 22    15.0 1   281.0     3.60    22.00    99.00    99.00
 8  9 26 23    15.0 1   281.0     3.10    21.40    99.00    99.00
 8  9 26 24    15.0 1   288.0     2.10    21.10    99.00    99.00
 8  9 27  1    15.0 1   304.0     2.10    20.90    99.00    99.00
 8  9 27  2    15.0 1   298.0     2.10    20.60    99.00    99.00
 8  9 27  3    15.0 1   312.0     1.50    20.10    99.00    99.00
 8  9 27  4    15.0 1   331.0     1.00    19.80    99.00    99.00
 8  9 27  5    15.0 1   343.0     0.50    19.30    99.00    99.00
 8  9 27  6    15.0 1     7.0     0.50    18.80    99.00    99.00
```

8	9	27	7	15.0	1	0.0	0.00	18.50	99.00	99.00
8	9	27	8	15.0	1	12.0	0.50	19.80	99.00	99.00
8	9	27	9	15.0	1	0.0	0.00	21.80	99.00	99.00
8	9	27	10	15.0	1	0.0	0.00	23.90	99.00	99.00
8	9	27	11	15.0	1	0.0	0.00	25.50	99.00	99.00
8	9	27	12	15.0	1	0.0	0.00	27.10	99.00	99.00
8	9	27	13	15.0	1	0.0	0.00	28.60	99.00	99.00
8	9	27	14	15.0	1	314.0	0.50	29.60	99.00	99.00
8	9	27	15	15.0	1	329.0	1.00	30.10	99.00	99.00
8	9	27	16	15.0	1	346.0	1.50	30.30	99.00	99.00
8	9	27	17	15.0	1	8.0	2.60	29.80	99.00	99.00
8	9	27	18	15.0	1	19.0	3.60	28.30	99.00	99.00
8	9	27	19	15.0	1	16.0	2.60	27.10	99.00	99.00
8	9	27	20	15.0	1	259.0	1.00	26.10	99.00	99.00
8	9	27	21	15.0	1	271.0	4.10	24.90	99.00	99.00
8	9	27	22	15.0	1	288.0	3.60	23.00	99.00	99.00
8	9	27	23	15.0	1	306.0	3.10	22.00	99.00	99.00
8	9	27	24	15.0	1	343.0	3.10	21.40	99.00	99.00
8	9	28	1	15.0	1	343.0	2.60	20.80	99.00	99.00
8	9	28	2	15.0	1	318.0	2.10	20.50	99.00	99.00
8	9	28	3	15.0	1	297.0	2.10	20.30	99.00	99.00
8	9	28	4	15.0	1	289.0	1.50	20.00	99.00	99.00
8	9	28	5	15.0	1	297.0	0.50	19.60	99.00	99.00
8	9	28	6	15.0	1	0.0	0.00	19.40	99.00	99.00
8	9	28	7	15.0	1	0.0	0.00	19.00	99.00	99.00
8	9	28	8	15.0	1	336.0	1.00	20.50	99.00	99.00
8	9	28	9	15.0	1	310.0	0.50	22.10	99.00	99.00
8	9	28	10	15.0	1	274.0	0.50	24.60	99.00	99.00
8	9	28	11	15.0	1	276.0	0.50	26.50	99.00	99.00
8	9	28	12	15.0	1	0.0	0.00	28.10	99.00	99.00
8	9	28	13	15.0	1	344.0	0.50	29.60	99.00	99.00
8	9	28	14	15.0	1	9.0	1.00	30.50	99.00	99.00
8	9	28	15	15.0	1	16.0	2.60	30.80	99.00	99.00
8	9	28	16	15.0	1	16.0	3.10	30.40	99.00	99.00
8	9	28	17	15.0	1	8.0	3.10	29.60	99.00	99.00
8	9	28	18	15.0	1	312.0	4.60	28.50	99.00	99.00
8	9	28	19	15.0	1	276.0	5.10	25.00	99.00	99.00
8	9	28	20	15.0	1	279.0	4.60	23.10	99.00	99.00
8	9	28	21	15.0	1	285.0	3.60	22.50	99.00	99.00
8	9	28	22	15.0	1	282.0	2.10	22.10	99.00	99.00
8	9	28	23	15.0	1	291.0	0.50	22.10	99.00	99.00
8	9	28	24	15.0	1	0.0	0.00	21.60	99.00	99.00
8	9	29	1	15.0	1	72.0	0.50	21.30	99.00	99.00
8	9	29	2	15.0	1	45.0	0.50	21.10	99.00	99.00
8	9	29	3	15.0	1	0.0	0.00	20.90	99.00	99.00
8	9	29	4	15.0	1	0.0	0.00	20.60	99.00	99.00
8	9	29	5	15.0	1	89.0	0.50	20.40	99.00	99.00
8	9	29	6	15.0	1	113.0	1.00	20.10	99.00	99.00
8	9	29	7	15.0	1	116.0	1.50	19.80	99.00	99.00
8	9	29	8	15.0	1	116.0	1.50	19.90	99.00	99.00
8	9	29	9	15.0	1	135.0	1.50	20.60	99.00	99.00
8	9	29	10	15.0	1	136.0	1.50	21.60	99.00	99.00
8	9	29	11	15.0	1	151.0	2.10	22.60	99.00	99.00
8	9	29	12	15.0	1	146.0	2.10	23.60	99.00	99.00
8	9	29	13	15.0	1	153.0	1.50	24.10	99.00	99.00
8	9	29	14	15.0	1	146.0	1.50	24.60	99.00	99.00
8	9	29	15	15.0	1	162.0	1.00	25.00	99.00	99.00
8	9	29	16	15.0	1	120.0	0.50	24.90	99.00	99.00
8	9	29	17	15.0	1	38.0	1.00	24.50	99.00	99.00
8	9	29	18	15.0	1	94.0	3.10	24.10	99.00	99.00
8	9	29	19	15.0	1	138.0	3.60	23.50	99.00	99.00
8	9	29	20	15.0	1	197.0	3.10	23.30	99.00	99.00
8	9	29	21	15.0	1	283.0	3.10	22.90	99.00	99.00
8	9	29	22	15.0	1	320.0	3.10	22.40	99.00	99.00
8	9	29	23	15.0	1	319.0	3.60	21.60	99.00	99.00
8	9	29	24	15.0	1	303.0	3.60	20.60	99.00	99.00
8	9	30	1	15.0	1	301.0	3.10	20.10	99.00	99.00
8	9	30	2	15.0	1	305.0	2.60	20.00	99.00	99.00
8	9	30	3	15.0	1	306.0	3.10	19.60	99.00	99.00
8	9	30	4	15.0	1	308.0	3.10	19.00	99.00	99.00
8	9	30	5	15.0	1	306.0	3.10	18.10	99.00	99.00
8	9	30	6	15.0	1	306.0	2.60	17.50	99.00	99.00
8	9	30	7	15.0	1	320.0	2.10	17.30	99.00	99.00
8	9	30	8	15.0	1	342.0	1.50	18.10	99.00	99.00
8	9	30	9	15.0	1	0.0	0.00	20.10	99.00	99.00
8	9	30	10	15.0	1	0.0	0.00	22.90	99.00	99.00
8	9	30	11	15.0	1	305.0	0.50	24.80	99.00	99.00

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 8   9 30 12     15.0 1   330.0      1.00     26.40     99.00     99.00
 8   9 30 13     15.0 1   348.0      1.00     27.90     99.00     99.00
 8   9 30 14     15.0 1   358.0      2.10     28.90     99.00     99.00
 8   9 30 15     15.0 1     0.0      0.00     29.10     99.00     99.00
 8   9 30 16     15.0 1     0.0      0.00     29.10     99.00     99.00
 8   9 30 17     15.0 1     7.0      2.60     28.80     99.00     99.00
 8   9 30 18     15.0 1     5.0      2.10     28.00     99.00     99.00
 8   9 30 19     15.0 1   266.0      0.50     27.00     99.00     99.00
 8   9 30 20     15.0 1   252.0      1.00     25.80     99.00     99.00
 8   9 30 21     15.0 1   283.0      1.50     25.10     99.00     99.00
 8   9 30 22     15.0 1   298.0      2.10     24.10     99.00     99.00
 8   9 30 23     15.0 1   303.0      2.10     23.40     99.00     99.00
 8   9 30 24     15.0 1   315.0      2.60     22.60     99.00     99.00
 8  10  1  1     15.0 1   317.0      3.10     21.90     99.00     99.00
 8  10  1  2     15.0 1   327.0      3.10     21.10     99.00     99.00
 8  10  1  3     15.0 1   326.0      2.60     20.40     99.00     99.00
 8  10  1  4     15.0 1   325.0      2.10     19.80     99.00     99.00
 8  10  1  5     15.0 1   312.0      1.50     19.40     99.00     99.00
 8  10  1  6     15.0 1   288.0      1.00     19.00     99.00     99.00
 8  10  1  7     15.0 1   287.0      0.50     18.60     99.00     99.00
 8  10  1  8     15.0 1   339.0      1.50     19.60     99.00     99.00
 8  10  1  9     15.0 1     0.0      0.00     21.30     99.00     99.00
 8  10  1 10     15.0 1     0.0      0.00     23.60     99.00     99.00
 8  10  1 11     15.0 1   295.0      0.50     25.50     99.00     99.00
 8  10  1 12     15.0 1   333.0      0.50     26.90     99.00     99.00
 8  10  1 13     15.0 1     3.0      1.00     27.90     99.00     99.00
 8  10  1 14     15.0 1     0.0      0.00     28.50     99.00     99.00
 8  10  1 15     15.0 1    15.0      2.60     28.40     99.00     99.00
 8  10  1 16     15.0 1    22.0      2.60     27.60     99.00     99.00
 8  10  1 17     15.0 1    26.0      3.10     26.90     99.00     99.00
 8  10  1 18     15.0 1    32.0      1.00     26.10     99.00     99.00
 8  10  1 19     15.0 1   235.0      1.00     25.10     99.00     99.00
 8  10  1 20     15.0 1   254.0      1.50     24.10     99.00     99.00
 8  10  1 21     15.0 1   296.0      1.50     23.60     99.00     99.00
 8  10  1 22     15.0 1   334.0      1.50     22.90     99.00     99.00
 8  10  1 23     15.0 1   332.0      2.10     22.10     99.00     99.00
 8  10  1 24     15.0 1   338.0      2.10     21.80     99.00     99.00
 8  10  2  1     15.0 1   356.0      2.10     21.30     99.00     99.00
 8  10  2  2     15.0 1    29.0      1.50     20.60     99.00     99.00
 8  10  2  3     15.0 1    42.0      1.00     20.10     99.00     99.00
 8  10  2  4     15.0 1    52.0      1.00     19.60     99.00     99.00
 8  10  2  5     15.0 1    39.0      1.00     19.30     99.00     99.00
 8  10  2  6     15.0 1    36.0      1.00     18.60     99.00     99.00
 8  10  2  7     15.0 1    19.0      0.50     18.30     99.00     99.00
 8  10  2  8     15.0 1     8.0      1.50     19.10     99.00     99.00
 8  10  2  9     15.0 1   340.0      1.00     20.90     99.00     99.00
 8  10  2 10     15.0 1   315.0      0.50     22.30     99.00     99.00
 8  10  2 11     15.0 1   312.0      0.50     23.60     99.00     99.00
 8  10  2 12     15.0 1   322.0      1.00     24.90     99.00     99.00
 8  10  2 13     15.0 1   335.0      1.50     25.90     99.00     99.00
 8  10  2 14     15.0 1   336.0      2.10     26.40     99.00     99.00
 8  10  2 15     15.0 1   354.0      2.60     26.60     99.00     99.00
 8  10  2 16     15.0 1     0.0      0.00     26.60     99.00     99.00
 8  10  2 17     15.0 1    13.0      3.10     26.00     99.00     99.00
 8  10  2 18     15.0 1     7.0      4.10     24.40     99.00     99.00
 8  10  2 19     15.0 1   355.0      3.60     23.00     99.00     99.00
 8  10  2 20     15.0 1   332.0      3.60     21.90     99.00     99.00
 8  10  2 21     15.0 1   319.0      3.60     20.80     99.00     99.00
 8  10  2 22     15.0 1   322.0      3.60     20.00     99.00     99.00
 8  10  2 23     15.0 1   324.0      3.10     19.10     99.00     99.00
 8  10  2 24     15.0 1   327.0      3.10     18.30     99.00     99.00
 8  10  3  1     15.0 1   328.0      3.10     17.50     99.00     99.00
 8  10  3  2     15.0 1   333.0      3.10     16.60     99.00     99.00
 8  10  3  3     15.0 1   320.0      2.60     16.10     99.00     99.00
 8  10  3  4     15.0 1   296.0      2.60     16.00     99.00     99.00
 8  10  3  5     15.0 1   288.0      2.60     15.60     99.00     99.00
 8  10  3  6     15.0 1   287.0      2.60     15.40     99.00     99.00
 8  10  3  7     15.0 1   294.0      2.10     15.10     99.00     99.00
 8  10  3  8     15.0 1   289.0      2.10     15.40     99.00     99.00
 8  10  3  9     15.0 1   284.0      1.00     16.00     99.00     99.00
 8  10  3 10     15.0 1   218.0      0.50     16.80     99.00     99.00
 8  10  3 11     15.0 1     0.0      0.00     17.90     99.00     99.00
 8  10  3 12     15.0 1     0.0      0.00     19.10     99.00     99.00
 8  10  3 13     15.0 1     0.0      0.00     20.10     99.00     99.00
 8  10  3 14     15.0 1    59.0      0.50     20.90     99.00     99.00
 8  10  3 15     15.0 1    45.0      1.00     21.10     99.00     99.00
 8  10  3 16     15.0 1    52.0      1.50     21.30     99.00     99.00
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 8 10   3 17     15.0 1    52.0      1.50     21.00     99.00     99.00
 8 10   3 18     15.0 1   352.0      0.50     20.60     99.00     99.00
 8 10   3 19     15.0 1   268.0      1.00     20.10     99.00     99.00
 8 10   3 20     15.0 1   271.0      2.60     19.40     99.00     99.00
 8 10   3 21     15.0 1   269.0      3.10     18.00     99.00     99.00
 8 10   3 22     15.0 1   262.0      2.60     17.10     99.00     99.00
 8 10   3 23     15.0 1   267.0      2.60     16.80     99.00     99.00
 8 10   3 24     15.0 1   267.0      2.10     16.60     99.00     99.00
 8 10   4  1     15.0 1   258.0      1.50     16.50     99.00     99.00
 8 10   4  2     15.0 1   255.0      0.50     16.40     99.00     99.00
 8 10   4  3     15.0 1   204.0      0.50     16.10     99.00     99.00
 8 10   4  4     15.0 1   158.0      1.50     16.10     99.00     99.00
 8 10   4  5     15.0 1   141.0      2.60     16.00     99.00     99.00
 8 10   4  6     15.0 1   130.0      3.10     16.10     99.00     99.00
 8 10   4  7     15.0 1   122.0      3.10     15.90     99.00     99.00
 8 10   4  8     15.0 1   124.0      2.10     16.30     99.00     99.00
 8 10   4  9     15.0 1   274.0      1.50     17.50     99.00     99.00
 8 10   4 10     15.0 1   283.0      2.10     18.80     99.00     99.00
 8 10   4 11     15.0 1   288.0      1.50     20.00     99.00     99.00
 8 10   4 12     15.0 1   311.0      1.00     21.10     99.00     99.00
 8 10   4 13     15.0 1   332.0      1.00     21.40     99.00     99.00
 8 10   4 14     15.0 1   320.0      0.50     22.00     99.00     99.00
 8 10   4 15     15.0 1   341.0      1.00     22.10     99.00     99.00
 8 10   4 16     15.0 1    11.0      2.10     22.10     99.00     99.00
 8 10   4 17     15.0 1    44.0      2.60     21.50     99.00     99.00
 8 10   4 18     15.0 1    53.0      1.50     20.60     99.00     99.00
 8 10   4 19     15.0 1   328.0      2.60     19.80     99.00     99.00
 8 10   4 20     15.0 1   355.0      3.60     18.50     99.00     99.00
 8 10   4 21     15.0 1    10.0      2.60     18.00     99.00     99.00
 8 10   4 22     15.0 1     5.0      2.60     17.60     99.00     99.00
 8 10   4 23     15.0 1   333.0      2.60     17.00     99.00     99.00
 8 10   4 24     15.0 1   314.0      3.10     16.40     99.00     99.00
 8 10   5  1     15.0 1   310.0      3.10     15.60     99.00     99.00
 8 10   5  2     15.0 1   321.0      3.10     15.00     99.00     99.00
 8 10   5  3     15.0 1   335.0      3.10     14.60     99.00     99.00
 8 10   5  4     15.0 1   331.0      2.60     14.50     99.00     99.00
 8 10   5  5     15.0 1   330.0      2.60     14.40     99.00     99.00
 8 10   5  6     15.0 1   322.0      2.10     14.30     99.00     99.00
 8 10   5  7     15.0 1   311.0      1.50     14.10     99.00     99.00
 8 10   5  8     15.0 1   355.0      2.10     14.60     99.00     99.00
 8 10   5  9     15.0 1   341.0      1.00     15.80     99.00     99.00
 8 10   5 10     15.0 1     0.0      0.00     16.60     99.00     99.00
 8 10   5 11     15.0 1     0.0      0.00     18.10     99.00     99.00
 8 10   5 12     15.0 1     0.0      0.00     19.50     99.00     99.00
 8 10   5 13     15.0 1     0.0      0.00     20.60     99.00     99.00
 8 10   5 14     15.0 1   322.0      0.50     21.60     99.00     99.00
 8 10   5 15     15.0 1   342.0      1.50     22.30     99.00     99.00
 8 10   5 16     15.0 1   353.0      2.60     22.40     99.00     99.00
 8 10   5 17     15.0 1    18.0      2.60     22.10     99.00     99.00
 8 10   5 18     15.0 1    29.0      3.10     21.30     99.00     99.00
 8 10   5 19     15.0 1    55.0      2.10     20.30     99.00     99.00
 8 10   5 20     15.0 1   107.0      2.60     19.10     99.00     99.00
 8 10   5 21     15.0 1   133.0      3.10     17.90     99.00     99.00
 8 10   5 22     15.0 1   139.0      2.60     17.00     99.00     99.00
 8 10   5 23     15.0 1   146.0      2.10     16.40     99.00     99.00
 8 10   5 24     15.0 1   142.0      1.50     15.80     99.00     99.00
 8 10   6  1     15.0 1   129.0      1.50     15.10     99.00     99.00
 8 10   6  2     15.0 1   144.0      1.00     14.60     99.00     99.00
 8 10   6  3     15.0 1   146.0      0.50     14.30     99.00     99.00
 8 10   6  4     15.0 1     0.0      0.00     13.90     99.00     99.00
 8 10   6  5     15.0 1   311.0      0.50     13.60     99.00     99.00
 8 10   6  6     15.0 1   298.0      0.50     13.40     99.00     99.00
 8 10   6  7     15.0 1   276.0      0.50     13.10     99.00     99.00
 8 10   6  8     15.0 1   317.0      1.00     15.00     99.00     99.00
 8 10   6  9     15.0 1   290.0      0.50     16.60     99.00     99.00
 8 10   6 10     15.0 1     0.0      0.00     18.30     99.00     99.00
 8 10   6 11     15.0 1     0.0      0.00     20.00     99.00     99.00
 8 10   6 12     15.0 1     0.0      0.00     21.80     99.00     99.00
 8 10   6 13     15.0 1   339.0      0.50     23.10     99.00     99.00
 8 10   6 14     15.0 1   346.0      1.50     24.10     99.00     99.00
 8 10   6 15     15.0 1     7.0      2.10     24.80     99.00     99.00
 8 10   6 16     15.0 1     8.0      2.10     24.80     99.00     99.00
 8 10   6 17     15.0 1    22.0      2.10     24.60     99.00     99.00
 8 10   6 18     15.0 1    17.0      1.50     23.60     99.00     99.00
 8 10   6 19     15.0 1     7.0      0.50     22.30     99.00     99.00
 8 10   6 20     15.0 1     0.0      0.00     21.00     99.00     99.00
 8 10   6 21     15.0 1     0.0      0.00     19.80     99.00     99.00
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 8 10  6 22    15.0 1    75.0     0.50    18.80    99.00    99.00
 8 10  6 23    15.0 1    55.0     0.50    17.90    99.00    99.00
 8 10  6 24    15.0 1     0.0     0.00    17.10    99.00    99.00
 8 10  7  1    15.0 1     0.0     0.00    16.50    99.00    99.00
 8 10  7  2    15.0 1     0.0     0.00    16.00    99.00    99.00
 8 10  7  3    15.0 1     0.0     0.00    15.60    99.00    99.00
 8 10  7  4    15.0 1     0.0     0.00    15.10    99.00    99.00
 8 10  7  5    15.0 1   306.0     0.50    14.80    99.00    99.00
 8 10  7  6    15.0 1   305.0     1.50    14.60    99.00    99.00
 8 10  7  7    15.0 1   311.0     1.50    14.50    99.00    99.00
 8 10  7  8    15.0 1   319.0     1.50    16.30    99.00    99.00
 8 10  7  9    15.0 1   297.0     0.50    18.40    99.00    99.00
 8 10  7 10    15.0 1     0.0     0.00    20.90    99.00    99.00
 8 10  7 11    15.0 1     0.0     0.00    22.80    99.00    99.00
 8 10  7 12    15.0 1     0.0     0.00    24.40    99.00    99.00
 8 10  7 13    15.0 1   334.0     0.50    25.90    99.00    99.00
 8 10  7 14    15.0 1   359.0     1.00    27.00    99.00    99.00
 8 10  7 15    15.0 1    13.0     2.10    27.40    99.00    99.00
 8 10  7 16    15.0 1    25.0     2.10    27.30    99.00    99.00
 8 10  7 17    15.0 1    18.0     3.10    26.60    99.00    99.00
 8 10  7 18    15.0 1    34.0     3.10    25.30    99.00    99.00
 8 10  7 19    15.0 1    20.0     1.50    24.00    99.00    99.00
 8 10  7 20    15.0 1   257.0     0.50    22.50    99.00    99.00
 8 10  7 21    15.0 1   305.0     0.50    21.10    99.00    99.00
 8 10  7 22    15.0 1   344.0     2.10    20.10    99.00    99.00
 8 10  7 23    15.0 1   337.0     2.60    19.50    99.00    99.00
 8 10  7 24    15.0 1   321.0     2.10    18.60    99.00    99.00
 8 10  8  1    15.0 1   286.0     2.10    17.90    99.00    99.00
 8 10  8  2    15.0 1   283.0     1.50    17.50    99.00    99.00
 8 10  8  3    15.0 1   284.0     1.00    17.10    99.00    99.00
 8 10  8  4    15.0 1   332.0     0.50    16.60    99.00    99.00
 8 10  8  5    15.0 1    27.0     0.50    16.30    99.00    99.00
 8 10  8  6    15.0 1     0.0     0.00    16.00    99.00    99.00
 8 10  8  7    15.0 1     0.0     0.00    15.60    99.00    99.00
 8 10  8  8    15.0 1   338.0     1.00    16.30    99.00    99.00
 8 10  8  9    15.0 1   333.0     0.50    17.60    99.00    99.00
 8 10  8 10    15.0 1     0.0     0.00    18.80    99.00    99.00
 8 10  8 11    15.0 1   271.0     0.50    20.10    99.00    99.00
 8 10  8 12    15.0 1     0.0     0.00    21.90    99.00    99.00
 8 10  8 13    15.0 1     0.0     0.00    23.60    99.00    99.00
 8 10  8 14    15.0 1   342.0     0.50    25.00    99.00    99.00
 8 10  8 15    15.0 1   355.0     1.50    25.80    99.00    99.00
 8 10  8 16    15.0 1   355.0     2.10    25.90    99.00    99.00
 8 10  8 17    15.0 1   354.0     2.10    25.60    99.00    99.00
 8 10  8 18    15.0 1   347.0     1.50    24.50    99.00    99.00
 8 10  8 19    15.0 1   331.0     1.00    23.10    99.00    99.00
 8 10  8 20    15.0 1   313.0     1.50    22.00    99.00    99.00
 8 10  8 21    15.0 1   311.0     2.60    20.80    99.00    99.00
 8 10  8 22    15.0 1   326.0     3.60    19.60    99.00    99.00
 8 10  8 23    15.0 1   336.0     3.10    18.60    99.00    99.00
 8 10  8 24    15.0 1   354.0     3.10    18.10    99.00    99.00
 8 10  9  1    15.0 1   349.0     3.10    17.50    99.00    99.00
 8 10  9  2    15.0 1   339.0     2.60    17.00    99.00    99.00
 8 10  9  3    15.0 1   334.0     2.10    16.30    99.00    99.00
 8 10  9  4    15.0 1   321.0     1.50    15.60    99.00    99.00
 8 10  9  5    15.0 1   309.0     2.10    14.80    99.00    99.00
 8 10  9  6    15.0 1   312.0     1.50    14.10    99.00    99.00
 8 10  9  7    15.0 1   313.0     1.50    13.50    99.00    99.00
 8 10  9  8    15.0 1   352.0     3.10    14.40    99.00    99.00
 8 10  9  9    15.0 1   336.0     3.10    16.00    99.00    99.00
 8 10  9 10    15.0 1   342.0     2.60    17.10    99.00    99.00
 8 10  9 11    15.0 1   335.0     3.10    18.30    99.00    99.00
 8 10  9 12    15.0 1   337.0     3.60    19.30    99.00    99.00
 8 10  9 13    15.0 1   338.0     4.10    20.10    99.00    99.00
 8 10  9 14    15.0 1   341.0     4.60    20.50    99.00    99.00
 8 10  9 15    15.0 1   338.0     5.10    20.30    99.00    99.00
 8 10  9 16    15.0 1   334.0     3.10    19.60    99.00    99.00
 8 10  9 17    15.0 1   318.0     3.60    18.80    99.00    99.00
 8 10  9 18    15.0 1   322.0     4.10    17.10    99.00    99.00
 8 10  9 19    15.0 1   325.0     3.60    15.60    99.00    99.00
 8 10  9 20    15.0 1   310.0     3.10    14.40    99.00    99.00
 8 10  9 21    15.0 1   312.0     2.60    13.50    99.00    99.00
 8 10  9 22    15.0 1   315.0     1.00    12.80    99.00    99.00
 8 10  9 23    15.0 1   248.0     0.50    12.30    99.00    99.00
 8 10  9 24    15.0 1   245.0     0.50    11.90    99.00    99.00
 8 10 10  1    15.0 1   264.0     0.50    11.50    99.00    99.00
 8 10 10  2    15.0 1   265.0     1.00    11.10    99.00    99.00
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 8 10 10  3    15.0 1   249.0     1.50    10.50    99.00    99.00
 8 10 10  4    15.0 1   237.0     2.10    10.00    99.00    99.00
 8 10 10  5    15.0 1   244.0     2.10     9.50    99.00    99.00
 8 10 10  6    15.0 1   232.0     2.60     9.00    99.00    99.00
 8 10 10  7    15.0 1   227.0     3.10     8.40    99.00    99.00
 8 10 10  8    15.0 1   330.0     3.10    10.00    99.00    99.00
 8 10 10  9    15.0 1   339.0     4.60    11.80    99.00    99.00
 8 10 10 10    15.0 1   341.0     4.60    13.40    99.00    99.00
 8 10 10 11    15.0 1   344.0     4.60    14.50    99.00    99.00
 8 10 10 12    15.0 1   341.0     5.10    15.40    99.00    99.00
 8 10 10 13    15.0 1   329.0     5.70    15.90    99.00    99.00
 8 10 10 14    15.0 1   327.0     6.20    16.10    99.00    99.00
 8 10 10 15    15.0 1   330.0     6.70    16.10    99.00    99.00
 8 10 10 16    15.0 1   329.0     6.20    15.60    99.00    99.00
 8 10 10 17    15.0 1   310.0     3.60    14.30    99.00    99.00
 8 10 10 18    15.0 1   305.0     4.10    12.50    99.00    99.00
 8 10 10 19    15.0 1   304.0     4.60    11.00    99.00    99.00
 8 10 10 20    15.0 1   296.0     4.60    10.10    99.00    99.00
 8 10 10 21    15.0 1   299.0     4.10     9.50    99.00    99.00
 8 10 10 22    15.0 1   299.0     3.60     9.00    99.00    99.00
 8 10 10 23    15.0 1   298.0     2.60     8.50    99.00    99.00
 8 10 10 24    15.0 1   296.0     2.10     7.90    99.00    99.00
 8 10 11  1    15.0 1   300.0     2.60     7.40    99.00    99.00
 8 10 11  2    15.0 1   302.0     3.10     6.90    99.00    99.00
 8 10 11  3    15.0 1   296.0     3.10     6.30    99.00    99.00
 8 10 11  4    15.0 1   296.0     3.60     5.80    99.00    99.00
 8 10 11  5    15.0 1   298.0     3.60     5.30    99.00    99.00
 8 10 11  6    15.0 1   295.0     3.10     5.00    99.00    99.00
 8 10 11  7    15.0 1   290.0     2.60     4.80    99.00    99.00
 8 10 11  8    15.0 1   334.0     5.10     7.30    99.00    99.00
 8 10 11  9    15.0 1   333.0     5.70     9.90    99.00    99.00
 8 10 11 10    15.0 1   333.0     4.60    11.10    99.00    99.00
 8 10 11 11    15.0 1   328.0     4.10    12.30    99.00    99.00
 8 10 11 12    15.0 1   334.0     4.60    13.30    99.00    99.00
 8 10 11 13    15.0 1   342.0     5.10    14.00    99.00    99.00
 8 10 11 14    15.0 1   337.0     5.10    14.40    99.00    99.00
 8 10 11 15    15.0 1   345.0     4.60    14.60    99.00    99.00
 8 10 11 16    15.0 1   343.0     4.60    14.50    99.00    99.00
 8 10 11 17    15.0 1   333.0     2.60    13.90    99.00    99.00
 8 10 11 18    15.0 1   326.0     2.60    13.30    99.00    99.00
 8 10 11 19    15.0 1   319.0     1.50    12.40    99.00    99.00
 8 10 11 20    15.0 1   327.0     0.50    11.30    99.00    99.00
 8 10 11 21    15.0 1     0.0     0.00    10.30    99.00    99.00
 8 10 11 22    15.0 1   128.0     1.50     8.90    99.00    99.00
 8 10 11 23    15.0 1   128.0     2.60     7.80    99.00    99.00
 8 10 11 24    15.0 1   133.0     2.60     7.00    99.00    99.00
 8 10 12  1    15.0 1   143.0     2.60     6.50    99.00    99.00
 8 10 12  2    15.0 1   162.0     2.10     6.10    99.00    99.00
 8 10 12  3    15.0 1   202.0     1.00     5.60    99.00    99.00
 8 10 12  4    15.0 1   240.0     1.00     5.00    99.00    99.00
 8 10 12  5    15.0 1   268.0     1.50     4.50    99.00    99.00
 8 10 12  6    15.0 1   267.0     2.10     4.10    99.00    99.00
 8 10 12  7    15.0 1   271.0     2.60     3.80    99.00    99.00
 8 10 12  8    15.0 1   314.0     3.10     6.00    99.00    99.00
 8 10 12  9    15.0 1   316.0     1.50     8.00    99.00    99.00
 8 10 12 10    15.0 1   278.0     0.50    10.00    99.00    99.00
 8 10 12 11    15.0 1     0.0     0.00    11.60    99.00    99.00
 8 10 12 12    15.0 1     0.0     0.00    13.00    99.00    99.00
 8 10 12 13    15.0 1     0.0     0.00    14.10    99.00    99.00
 8 10 12 14    15.0 1   322.0     0.50    14.90    99.00    99.00
 8 10 12 15    15.0 1   348.0     1.00    15.40    99.00    99.00
 8 10 12 16    15.0 1     0.0     0.00    15.50    99.00    99.00
 8 10 12 17    15.0 1    24.0     2.10    15.10    99.00    99.00
 8 10 12 18    15.0 1    26.0     1.50    14.30    99.00    99.00
 8 10 12 19    15.0 1    56.0     1.00    13.10    99.00    99.00
 8 10 12 20    15.0 1    95.0     1.00    11.60    99.00    99.00
 8 10 12 21    15.0 1   131.0     1.00    10.40    99.00    99.00
 8 10 12 22    15.0 1   164.0     2.10     9.50    99.00    99.00
 8 10 12 23    15.0 1   170.0     2.10     8.90    99.00    99.00
 8 10 12 24    15.0 1   194.0     2.10     8.50    99.00    99.00
 8 10 13  1    15.0 1   235.0     1.50     8.10    99.00    99.00
 8 10 13  2    15.0 1   271.0     2.60     7.80    99.00    99.00
 8 10 13  3    15.0 1   272.0     3.10     7.30    99.00    99.00
 8 10 13  4    15.0 1   264.0     3.10     6.80    99.00    99.00
 8 10 13  5    15.0 1   251.0     3.10     6.40    99.00    99.00
 8 10 13  6    15.0 1   249.0     3.10     6.30    99.00    99.00
 8 10 13  7    15.0 1   245.0     2.60     6.10    99.00    99.00
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 8 10 13  8    15.0 1   230.0     1.50     7.50    99.00    99.00
 8 10 13  9    15.0 1   208.0     1.50    10.80    99.00    99.00
 8 10 13 10    15.0 1   234.0     1.00    13.10    99.00    99.00
 8 10 13 11    15.0 1   265.0     0.50    15.10    99.00    99.00
 8 10 13 12    15.0 1   302.0     0.50    17.00    99.00    99.00
 8 10 13 13    15.0 1   343.0     0.50    18.50    99.00    99.00
 8 10 13 14    15.0 1   355.0     1.50    19.50    99.00    99.00
 8 10 13 15    15.0 1     0.0     0.00    19.90    99.00    99.00
 8 10 13 16    15.0 1    10.0     2.60    19.80    99.00    99.00
 8 10 13 17    15.0 1    42.0     3.10    18.90    99.00    99.00
 8 10 13 18    15.0 1    69.0     3.60    17.40    99.00    99.00
 8 10 13 19    15.0 1    92.0     2.60    16.10    99.00    99.00
 8 10 13 20    15.0 1   164.0     1.00    14.60    99.00    99.00
 8 10 13 21    15.0 1   224.0     1.50    13.60    99.00    99.00
 8 10 13 22    15.0 1   219.0     0.50    12.60    99.00    99.00
 8 10 13 23    15.0 1    91.0     0.50    11.80    99.00    99.00
 8 10 13 24    15.0 1    84.0     0.50    11.00    99.00    99.00
 8 10 14  1    15.0 1     0.0     0.00    10.50    99.00    99.00
 8 10 14  2    15.0 1   192.0     1.00    10.10    99.00    99.00
 8 10 14  3    15.0 1   171.0     1.00    10.10    99.00    99.00
 8 10 14  4    15.0 1   154.0     0.50    10.10    99.00    99.00
 8 10 14  5    15.0 1    31.0     0.50     9.50    99.00    99.00
 8 10 14  6    15.0 1   347.0     2.10     8.50    99.00    99.00
 8 10 14  7    15.0 1   335.0     2.10     8.10    99.00    99.00
 8 10 14  8    15.0 1   331.0     1.50     9.40    99.00    99.00
 8 10 14  9    15.0 1   318.0     1.00    13.10    99.00    99.00
 8 10 14 10    15.0 1     0.0     0.00    15.60    99.00    99.00
 8 10 14 11    15.0 1     0.0     0.00    18.10    99.00    99.00
 8 10 14 12    15.0 1     0.0     0.00    19.90    99.00    99.00
 8 10 14 13    15.0 1     0.0     0.00    21.30    99.00    99.00
 8 10 14 14    15.0 1     0.0     0.00    22.30    99.00    99.00
 8 10 14 15    15.0 1    44.0     0.50    22.90    99.00    99.00
 8 10 14 16    15.0 1    52.0     1.50    22.80    99.00    99.00
 8 10 14 17    15.0 1    59.0     2.60    22.10    99.00    99.00
 8 10 14 18    15.0 1    59.0     2.60    20.90    99.00    99.00
 8 10 14 19    15.0 1   104.0     1.00    19.10    99.00    99.00
 8 10 14 20    15.0 1   178.0     1.00    17.60    99.00    99.00
 8 10 14 21    15.0 1   190.0     1.00    16.60    99.00    99.00
 8 10 14 22    15.0 1    92.0     0.50    15.50    99.00    99.00
 8 10 14 23    15.0 1    53.0     0.50    14.60    99.00    99.00
 8 10 14 24    15.0 1    36.0     0.50    13.60    99.00    99.00
 8 10 15  1    15.0 1    63.0     0.50    13.00    99.00    99.00
 8 10 15  2    15.0 1    63.0     0.50    12.50    99.00    99.00
 8 10 15  3    15.0 1    43.0     0.50    12.10    99.00    99.00
 8 10 15  4    15.0 1    34.0     0.50    11.60    99.00    99.00
 8 10 15  5    15.0 1   347.0     1.00    11.30    99.00    99.00
 8 10 15  6    15.0 1   340.0     1.00    10.90    99.00    99.00
 8 10 15  7    15.0 1   330.0     1.00    10.60    99.00    99.00
 8 10 15  8    15.0 1   314.0     0.50    11.40    99.00    99.00
 8 10 15  9    15.0 1   298.0     1.00    15.40    99.00    99.00
 8 10 15 10    15.0 1     0.0     0.00    17.60    99.00    99.00
 8 10 15 11    15.0 1     0.0     0.00    20.10    99.00    99.00
 8 10 15 12    15.0 1     0.0     0.00    22.40    99.00    99.00
 8 10 15 13    15.0 1   336.0     0.50    23.90    99.00    99.00
 8 10 15 14    15.0 1     0.0     0.00    24.80    99.00    99.00
 8 10 15 15    15.0 1    21.0     1.50    25.10    99.00    99.00
 8 10 15 16    15.0 1    26.0     2.10    24.90    99.00    99.00
 8 10 15 17    15.0 1    29.0     2.60    24.10    99.00    99.00
 8 10 15 18    15.0 1    33.0     1.50    22.60    99.00    99.00
 8 10 15 19    15.0 1   260.0     0.50    21.00    99.00    99.00
 8 10 15 20    15.0 1   244.0     1.00    19.40    99.00    99.00
 8 10 15 21    15.0 1   258.0     0.50    18.10    99.00    99.00
 8 10 15 22    15.0 1   353.0     0.50    17.10    99.00    99.00
 8 10 15 23    15.0 1    42.0     0.50    16.00    99.00    99.00
 8 10 15 24    15.0 1    55.0     1.00    15.10    99.00    99.00
 8 10 16  1    15.0 1   349.0     0.50    14.60    99.00    99.00
 8 10 16  2    15.0 1   279.0     1.00    14.10    99.00    99.00
 8 10 16  3    15.0 1   268.0     1.50    13.60    99.00    99.00
 8 10 16  4    15.0 1   276.0     1.50    13.50    99.00    99.00
 8 10 16  5    15.0 1   289.0     1.00    13.30    99.00    99.00
 8 10 16  6    15.0 1   278.0     0.50    13.00    99.00    99.00
 8 10 16  7    15.0 1   250.0     0.50    12.60    99.00    99.00
 8 10 16  8    15.0 1   237.0     1.00    13.10    99.00    99.00
 8 10 16  9    15.0 1   284.0     1.00    16.00    99.00    99.00
 8 10 16 10    15.0 1     0.0     0.00    18.30    99.00    99.00
 8 10 16 11    15.0 1     0.0     0.00    20.90    99.00    99.00
 8 10 16 12    15.0 1     0.0     0.00    23.10    99.00    99.00
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 8 10 16 13    15.0 1     0.0     0.00    24.60    99.00    99.00
 8 10 16 14    15.0 1    12.0     0.50    25.80    99.00    99.00
 8 10 16 15    15.0 1    27.0     1.00    26.10    99.00    99.00
 8 10 16 16    15.0 1     7.0     1.50    26.80    99.00    99.00
 8 10 16 17    15.0 1    24.0     2.60    26.10    99.00    99.00
 8 10 16 18    15.0 1    17.0     2.60    24.60    99.00    99.00
 8 10 16 19    15.0 1    12.0     1.50    23.30    99.00    99.00
 8 10 16 20    15.0 1   320.0     1.00    21.90    99.00    99.00
 8 10 16 21    15.0 1   298.0     0.50    20.60    99.00    99.00
 8 10 16 22    15.0 1   329.0     0.50    19.90    99.00    99.00
 8 10 16 23    15.0 1    17.0     0.50    19.10    99.00    99.00
 8 10 16 24    15.0 1     0.0     0.00    18.40    99.00    99.00
 8 10 17  1    15.0 1     0.0     0.00    17.80    99.00    99.00
 8 10 17  2    15.0 1   333.0     0.50    17.30    99.00    99.00
 8 10 17  3    15.0 1   324.0     0.50    17.00    99.00    99.00
 8 10 17  4    15.0 1   311.0     1.00    16.60    99.00    99.00
 8 10 17  5    15.0 1   318.0     1.00    16.10    99.00    99.00
 8 10 17  6    15.0 1   333.0     1.00    15.80    99.00    99.00
 8 10 17  7    15.0 1   342.0     1.00    15.40    99.00    99.00
 8 10 17  8    15.0 1   355.0     1.00    15.90    99.00    99.00
 8 10 17  9    15.0 1   332.0     1.50    19.40    99.00    99.00
 8 10 17 10    15.0 1   317.0     1.50    21.10    99.00    99.00
 8 10 17 11    15.0 1   323.0     1.50    23.40    99.00    99.00
 8 10 17 12    15.0 1   332.0     1.00    25.30    99.00    99.00
 8 10 17 13    15.0 1   338.0     1.00    26.80    99.00    99.00
 8 10 17 14    15.0 1     0.0     0.00    27.90    99.00    99.00
 8 10 17 15    15.0 1     0.0     0.00    28.40    99.00    99.00
 8 10 17 16    15.0 1   346.0     2.10    28.30    99.00    99.00
 8 10 17 17    15.0 1   338.0     2.60    27.50    99.00    99.00
 8 10 17 18    15.0 1   347.0     2.60    26.10    99.00    99.00
 8 10 17 19    15.0 1   345.0     3.10    24.80    99.00    99.00
 8 10 17 20    15.0 1   321.0     4.60    23.90    99.00    99.00
 8 10 17 21    15.0 1   325.0     5.10    22.30    99.00    99.00
 8 10 17 22    15.0 1   326.0     4.60    20.60    99.00    99.00
 8 10 17 23    15.0 1   336.0     4.10    19.80    99.00    99.00
 8 10 17 24    15.0 1     0.0     0.00    19.10    99.00    99.00
 8 10 18  1    15.0 1    20.0     4.10    18.50    99.00    99.00
 8 10 18  2    15.0 1    34.0     4.10    18.00    99.00    99.00
 8 10 18  3    15.0 1    18.0     4.10    17.60    99.00    99.00
 8 10 18  4    15.0 1    18.0     4.10    17.30    99.00    99.00
 8 10 18  5    15.0 1    14.0     3.60    17.10    99.00    99.00
 8 10 18  6    15.0 1   358.0     3.10    17.00    99.00    99.00
 8 10 18  7    15.0 1     4.0     2.60    16.80    99.00    99.00
 8 10 18  8    15.0 1     0.0     0.00    17.10    99.00    99.00
 8 10 18  9    15.0 1   344.0     1.00    19.60    99.00    99.00
 8 10 18 10    15.0 1   316.0     0.50    21.40    99.00    99.00
 8 10 18 11    15.0 1     0.0     0.00    23.10    99.00    99.00
 8 10 18 12    15.0 1   314.0     0.50    24.30    99.00    99.00
 8 10 18 13    15.0 1   321.0     0.50    25.10    99.00    99.00
 8 10 18 14    15.0 1   333.0     1.00    25.90    99.00    99.00
 8 10 18 15    15.0 1   338.0     2.10    26.10    99.00    99.00
 8 10 18 16    15.0 1   348.0     2.60    26.10    99.00    99.00
 8 10 18 17    15.0 1     0.0     0.00    25.40    99.00    99.00
 8 10 18 18    15.0 1    11.0     3.10    24.30    99.00    99.00
 8 10 18 19    15.0 1   312.0     2.10    23.30    99.00    99.00
 8 10 18 20    15.0 1   284.0     5.10    20.60    99.00    99.00
 8 10 18 21    15.0 1   269.0     4.10    18.50    99.00    99.00
 8 10 18 22    15.0 1   273.0     3.60    17.60    99.00    99.00
 8 10 18 23    15.0 1   292.0     3.10    17.00    99.00    99.00
 8 10 18 24    15.0 1   306.0     2.60    16.50    99.00    99.00
 8 10 19  1    15.0 1   316.0     2.10    16.30    99.00    99.00
 8 10 19  2    15.0 1   320.0     2.10    16.00    99.00    99.00
 8 10 19  3    15.0 1   320.0     1.50    15.60    99.00    99.00
 8 10 19  4    15.0 1   316.0     1.50    15.10    99.00    99.00
 8 10 19  5    15.0 1   334.0     1.00    14.60    99.00    99.00
 8 10 19  6    15.0 1   330.0     0.50    14.10    99.00    99.00
 8 10 19  7    15.0 1   325.0     0.50    13.50    99.00    99.00
 8 10 19  8    15.0 1   340.0     1.50    13.50    99.00    99.00
 8 10 19  9    15.0 1    14.0     1.00    14.40    99.00    99.00
 8 10 19 10    15.0 1     0.0     0.00    16.10    99.00    99.00
 8 10 19 11    15.0 1     0.0     0.00    18.00    99.00    99.00
 8 10 19 12    15.0 1   316.0     0.50    19.50    99.00    99.00
 8 10 19 13    15.0 1   329.0     1.00    20.90    99.00    99.00
 8 10 19 14    15.0 1   334.0     1.50    21.90    99.00    99.00
 8 10 19 15    15.0 1   344.0     2.10    22.30    99.00    99.00
 8 10 19 16    15.0 1   352.0     2.60    22.40    99.00    99.00
 8 10 19 17    15.0 1     0.0     0.00    22.10    99.00    99.00
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 8 10 19 18    15.0 1    11.0     2.10    21.10    99.00    99.00
 8 10 19 19    15.0 1    18.0     1.50    20.30    99.00    99.00
 8 10 19 20    15.0 1     0.0     0.00    19.30    99.00    99.00
 8 10 19 21    15.0 1   286.0     0.50    18.40    99.00    99.00
 8 10 19 22    15.0 1   309.0     1.00    17.80    99.00    99.00
 8 10 19 23    15.0 1   335.0     2.60    17.30    99.00    99.00
 8 10 19 24    15.0 1   337.0     3.10    16.50    99.00    99.00
 8 10 20  1    15.0 1   346.0     3.10    15.80    99.00    99.00
 8 10 20  2    15.0 1   348.0     2.10    15.30    99.00    99.00
 8 10 20  3    15.0 1   350.0     1.50    14.90    99.00    99.00
 8 10 20  4    15.0 1   349.0     1.00    14.40    99.00    99.00
 8 10 20  5    15.0 1   351.0     0.50    14.00    99.00    99.00
 8 10 20  6    15.0 1     0.0     0.00    13.60    99.00    99.00
 8 10 20  7    15.0 1     0.0     0.00    13.10    99.00    99.00
 8 10 20  8    15.0 1    21.0     1.00    13.00    99.00    99.00
 8 10 20  9    15.0 1    22.0     1.00    13.60    99.00    99.00
 8 10 20 10    15.0 1    31.0     0.50    14.40    99.00    99.00
 8 10 20 11    15.0 1     0.0     0.00    16.00    99.00    99.00
 8 10 20 12    15.0 1     0.0     0.00    17.60    99.00    99.00
 8 10 20 13    15.0 1     0.0     0.00    19.10    99.00    99.00
 8 10 20 14    15.0 1     5.0     1.00    20.10    99.00    99.00
 8 10 20 15    15.0 1     6.0     1.50    20.60    99.00    99.00
 8 10 20 16    15.0 1    17.0     2.10    20.80    99.00    99.00
 8 10 20 17    15.0 1    26.0     2.10    20.50    99.00    99.00
 8 10 20 18    15.0 1    26.0     2.60    19.50    99.00    99.00
 8 10 20 19    15.0 1    55.0     2.10    18.50    99.00    99.00
 8 10 20 20    15.0 1    82.0     1.00    17.50    99.00    99.00
 8 10 20 21    15.0 1   102.0     0.50    16.60    99.00    99.00
 8 10 20 22    15.0 1     0.0     0.00    15.80    99.00    99.00
 8 10 20 23    15.0 1   298.0     0.50    15.10    99.00    99.00
 8 10 20 24    15.0 1   313.0     0.50    14.60    99.00    99.00
 8 10 21  1    15.0 1   313.0     0.50    14.10    99.00    99.00
 8 10 21  2    15.0 1   322.0     1.00    13.60    99.00    99.00
 8 10 21  3    15.0 1   332.0     1.00    12.80    99.00    99.00
 8 10 21  4    15.0 1   351.0     1.00    11.90    99.00    99.00
 8 10 21  5    15.0 1     0.0     0.00    11.60    99.00    99.00
 8 10 21  6    15.0 1     0.0     0.00    11.10    99.00    99.00
 8 10 21  7    15.0 1     0.0     0.00    10.60    99.00    99.00
 8 10 21  8    15.0 1     0.0     0.00    10.80    99.00    99.00
 8 10 21  9    15.0 1     0.0     0.00    12.50    99.00    99.00
 8 10 21 10    15.0 1     0.0     0.00    14.90    99.00    99.00
 8 10 21 11    15.0 1     0.0     0.00    16.90    99.00    99.00
 8 10 21 12    15.0 1     0.0     0.00    18.40    99.00    99.00
 8 10 21 13    15.0 1   321.0     0.50    19.60    99.00    99.00
 8 10 21 14    15.0 1   335.0     1.00    20.80    99.00    99.00
 8 10 21 15    15.0 1   355.0     1.50    21.30    99.00    99.00
 8 10 21 16    15.0 1   343.0     2.60    22.60    99.00    99.00
 8 10 21 17    15.0 1   342.0     2.10    22.30    99.00    99.00
 8 10 21 18    15.0 1     4.0     1.50    21.30    99.00    99.00
 8 10 21 19    15.0 1     0.0     0.00    20.10    99.00    99.00
 8 10 21 20    15.0 1     0.0     0.00    18.80    99.00    99.00
 8 10 21 21    15.0 1     0.0     0.00    17.60    99.00    99.00
 8 10 21 22    15.0 1     0.0     0.00    16.90    99.00    99.00
 8 10 21 23    15.0 1     0.0     0.00    16.10    99.00    99.00
 8 10 21 24    15.0 1     0.0     0.00    15.60    99.00    99.00
 8 10 22  1    15.0 1     0.0     0.00    15.30    99.00    99.00
 8 10 22  2    15.0 1   275.0     0.50    15.00    99.00    99.00
 8 10 22  3    15.0 1   268.0     0.50    14.60    99.00    99.00
 8 10 22  4    15.0 1   257.0     1.00    14.40    99.00    99.00
 8 10 22  5    15.0 1   265.0     1.00    14.10    99.00    99.00
 8 10 22  6    15.0 1   263.0     1.50    14.00    99.00    99.00
 8 10 22  7    15.0 1   272.0     1.00    13.60    99.00    99.00
 8 10 22  8    15.0 1   293.0     1.00    13.90    99.00    99.00
 8 10 22  9    15.0 1   302.0     1.50    16.80    99.00    99.00
 8 10 22 10    15.0 1   306.0     1.50    19.00    99.00    99.00
 8 10 22 11    15.0 1   353.0     1.00    21.30    99.00    99.00
 8 10 22 12    15.0 1     6.0     1.00    23.40    99.00    99.00
 8 10 22 13    15.0 1    16.0     1.50    25.00    99.00    99.00
 8 10 22 14    15.0 1    30.0     2.60    26.00    99.00    99.00
 8 10 22 15    15.0 1    45.0     3.10    26.30    99.00    99.00
 8 10 22 16    15.0 1    31.0     3.10    25.50    99.00    99.00
 8 10 22 17    15.0 1    38.0     3.60    24.30    99.00    99.00
 8 10 22 18    15.0 1    91.0     3.10    22.80    99.00    99.00
 8 10 22 19    15.0 1   148.0     4.10    20.80    99.00    99.00
 8 10 22 20    15.0 1   147.0     5.10    18.90    99.00    99.00
 8 10 22 21    15.0 1   160.0     5.10    17.90    99.00    99.00
 8 10 22 22    15.0 1   156.0     4.10    17.50    99.00    99.00
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 8 10 22 23     15.0 1    154.0      3.10     17.60     99.00     99.00
 8 10 22 24     15.0 1    124.0      2.10     17.30     99.00     99.00
 8 10 23  1     15.0 1     91.0      1.50     16.50     99.00     99.00
 8 10 23  2     15.0 1     68.0      1.50     15.80     99.00     99.00
 8 10 23  3     15.0 1     60.0      1.00     15.10     99.00     99.00
 8 10 23  4     15.0 1     22.0      0.50     14.60     99.00     99.00
 8 10 23  5     15.0 1     15.0      0.50     14.10     99.00     99.00
 8 10 23  6     15.0 1     40.0      0.50     13.60     99.00     99.00
 8 10 23  7     15.0 1     73.0      0.50     13.10     99.00     99.00
 8 10 23  8     15.0 1     82.0      0.50     13.10     99.00     99.00
 8 10 23  9     15.0 1      0.0      0.00     16.50     99.00     99.00
 8 10 23 10     15.0 1    301.0      0.50     18.90     99.00     99.00
 8 10 23 11     15.0 1      0.0      0.00     20.80     99.00     99.00
 8 10 23 12     15.0 1      0.0      0.00     22.60     99.00     99.00
 8 10 23 13     15.0 1      0.0      0.00     23.90     99.00     99.00
 8 10 23 14     15.0 1      0.0      0.00     24.80     99.00     99.00
 8 10 23 15     15.0 1      6.0      0.50     25.10     99.00     99.00
 8 10 23 16     15.0 1     32.0      1.00     25.10     99.00     99.00
 8 10 23 17     15.0 1     37.0      1.00     24.50     99.00     99.00
 8 10 23 18     15.0 1     44.0      0.50     22.90     99.00     99.00
 8 10 23 19     15.0 1    263.0      0.50     21.10     99.00     99.00
 8 10 23 20     15.0 1      0.0      0.00     19.80     99.00     99.00
 8 10 23 21     15.0 1      0.0      0.00     18.60     99.00     99.00
 8 10 23 22     15.0 1      0.0      0.00     17.60     99.00     99.00
 8 10 23 23     15.0 1     85.0      0.50     16.50     99.00     99.00
 8 10 23 24     15.0 1    104.0      1.00     15.60     99.00     99.00
 8 10 24  1     15.0 1     88.0      0.50     15.10     99.00     99.00
 8 10 24  2     15.0 1      0.0      0.00     14.60     99.00     99.00
 8 10 24  3     15.0 1    113.0      0.50     14.10     99.00     99.00
 8 10 24  4     15.0 1    102.0      0.50     13.60     99.00     99.00
 8 10 24  5     15.0 1    105.0      0.50     13.30     99.00     99.00
 8 10 24  6     15.0 1      0.0      0.00     12.90     99.00     99.00
 8 10 24  7     15.0 1      0.0      0.00     12.40     99.00     99.00
 8 10 24  8     15.0 1      0.0      0.00     12.60     99.00     99.00
 8 10 24  9     15.0 1      0.0      0.00     16.10     99.00     99.00
 8 10 24 10     15.0 1      0.0      0.00     18.50     99.00     99.00
 8 10 24 11     15.0 1      0.0      0.00     20.60     99.00     99.00
 8 10 24 12     15.0 1      0.0      0.00     22.60     99.00     99.00
 8 10 24 13     15.0 1      0.0      0.00     24.10     99.00     99.00
 8 10 24 14     15.0 1      0.0      0.00     25.10     99.00     99.00
 8 10 24 15     15.0 1      0.0      0.00     25.60     99.00     99.00
 8 10 24 16     15.0 1     25.0      0.50     25.60     99.00     99.00
 8 10 24 17     15.0 1     26.0      0.50     24.90     99.00     99.00
 8 10 24 18     15.0 1      0.0      0.00     23.30     99.00     99.00
 8 10 24 19     15.0 1      0.0      0.00     21.60     99.00     99.00
 8 10 24 20     15.0 1      0.0      0.00     20.40     99.00     99.00
 8 10 24 21     15.0 1      0.0      0.00     19.10     99.00     99.00
 8 10 24 22     15.0 1     95.0      0.50     18.10     99.00     99.00
 8 10 24 23     15.0 1     78.0      0.50     17.10     99.00     99.00
 8 10 24 24     15.0 1     57.0      0.50     16.40     99.00     99.00
 8 10 25  1     15.0 1     69.0      0.50     15.80     99.00     99.00
 8 10 25  2     15.0 1      0.0      0.00     15.30     99.00     99.00
 8 10 25  3     15.0 1      0.0      0.00     14.80     99.00     99.00
 8 10 25  4     15.0 1      0.0      0.00     14.30     99.00     99.00
 8 10 25  5     15.0 1      0.0      0.00     13.80     99.00     99.00
 8 10 25  6     15.0 1      0.0      0.00     13.50     99.00     99.00
 8 10 25  7     15.0 1    316.0      0.50     13.10     99.00     99.00
 8 10 25  8     15.0 1    310.0      1.00     13.50     99.00     99.00
 8 10 25  9     15.0 1    307.0      1.50     16.80     99.00     99.00
 8 10 25 10     15.0 1    296.0      1.00     18.60     99.00     99.00
 8 10 25 11     15.0 1    309.0      0.50     20.90     99.00     99.00
 8 10 25 12     15.0 1    309.0      0.50     22.80     99.00     99.00
 8 10 25 13     15.0 1    310.0      0.50     24.60     99.00     99.00
 8 10 25 14     15.0 1    335.0      0.50     25.60     99.00     99.00
 8 10 25 15     15.0 1    352.0      0.50     26.10     99.00     99.00
 8 10 25 16     15.0 1      9.0      0.50     26.10     99.00     99.00
 8 10 25 17     15.0 1      0.0      0.00     25.30     99.00     99.00
 8 10 25 18     15.0 1      0.0      0.00     23.60     99.00     99.00
 8 10 25 19     15.0 1      0.0      0.00     22.10     99.00     99.00
 8 10 25 20     15.0 1      0.0      0.00     20.60     99.00     99.00
 8 10 25 21     15.0 1      0.0      0.00     19.50     99.00     99.00
 8 10 25 22     15.0 1    315.0      1.00     18.40     99.00     99.00
 8 10 25 23     15.0 1    342.0      1.50     17.60     99.00     99.00
 8 10 25 24     15.0 1      5.0      1.50     17.10     99.00     99.00
 8 10 26  1     15.0 1      0.0      0.00     16.60     99.00     99.00
 8 10 26  2     15.0 1      9.0      0.50     16.00     99.00     99.00
 8 10 26  3     15.0 1    318.0      0.50     15.50     99.00     99.00
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 8 10 26  4    15.0 1  287.0     1.00    15.00    99.00    99.00
 8 10 26  5    15.0 1  284.0     1.50    14.50    99.00    99.00
 8 10 26  6    15.0 1  288.0     2.10    14.10    99.00    99.00
 8 10 26  7    15.0 1  305.0     1.50    13.60    99.00    99.00
 8 10 26  8    15.0 1  302.0     1.50    13.80    99.00    99.00
 8 10 26  9    15.0 1  318.0     2.10    15.90    99.00    99.00
 8 10 26 10    15.0 1  314.0     1.50    17.90    99.00    99.00
 8 10 26 11    15.0 1  324.0     1.00    19.90    99.00    99.00
 8 10 26 12    15.0 1  317.0     0.50    22.10    99.00    99.00
 8 10 26 13    15.0 1  335.0     1.00    23.60    99.00    99.00
 8 10 26 14    15.0 1  345.0     1.50    24.40    99.00    99.00
 8 10 26 15    15.0 1  354.0     1.50    24.80    99.00    99.00
 8 10 26 16    15.0 1   15.0     2.10    25.50    99.00    99.00
 8 10 26 17    15.0 1   21.0     2.10    24.90    99.00    99.00
 8 10 26 18    15.0 1   35.0     1.50    23.60    99.00    99.00
 8 10 26 19    15.0 1    0.0     0.00    22.30    99.00    99.00
 8 10 26 20    15.0 1    0.0     0.00    20.90    99.00    99.00
 8 10 26 21    15.0 1  289.0     0.50    19.80    99.00    99.00
 8 10 26 22    15.0 1  319.0     0.50    19.00    99.00    99.00
 8 10 26 23    15.0 1  333.0     1.50    18.30    99.00    99.00
 8 10 26 24    15.0 1  320.0     2.10    17.80    99.00    99.00
 8 10 27  1    15.0 1  315.0     3.10    17.10    99.00    99.00
 8 10 27  2    15.0 1  309.0     3.10    16.40    99.00    99.00
 8 10 27  3    15.0 1  289.0     2.60    15.90    99.00    99.00
 8 10 27  4    15.0 1  280.0     2.60    15.50    99.00    99.00
 8 10 27  5    15.0 1  270.0     2.10    15.30    99.00    99.00
 8 10 27  6    15.0 1  285.0     1.50    15.10    99.00    99.00
 8 10 27  7    15.0 1  266.0     0.50    14.60    99.00    99.00
 8 10 27  8    15.0 1    0.0     0.00    14.50    99.00    99.00
 8 10 27  9    15.0 1  323.0     1.50    15.80    99.00    99.00
 8 10 27 10    15.0 1  307.0     1.00    17.10    99.00    99.00
 8 10 27 11    15.0 1  287.0     0.50    18.60    99.00    99.00
 8 10 27 12    15.0 1  288.0     0.50    20.30    99.00    99.00
 8 10 27 13    15.0 1  311.0     1.00    21.60    99.00    99.00
 8 10 27 14    15.0 1  316.0     1.00    22.10    99.00    99.00
 8 10 27 15    15.0 1  316.0     1.50    22.40    99.00    99.00
 8 10 27 16    15.0 1  318.0     0.50    22.10    99.00    99.00
 8 10 27 17    15.0 1    0.0     0.00    21.50    99.00    99.00
 8 10 27 18    15.0 1    0.0     0.00    20.50    99.00    99.00
 8 10 27 19    15.0 1    0.0     0.00    19.50    99.00    99.00
 8 10 27 20    15.0 1    0.0     0.00    18.80    99.00    99.00
 8 10 27 21    15.0 1    0.0     0.00    18.10    99.00    99.00
 8 10 27 22    15.0 1   54.0     0.50    17.60    99.00    99.00
 8 10 27 23    15.0 1    0.0     0.00    17.10    99.00    99.00
 8 10 27 24    15.0 1  339.0     0.50    16.60    99.00    99.00
 8 10 28  1    15.0 1  329.0     1.00    16.10    99.00    99.00
 8 10 28  2    15.0 1  338.0     1.00    15.60    99.00    99.00
 8 10 28  3    15.0 1  339.0     1.00    15.10    99.00    99.00
 8 10 28  4    15.0 1  353.0     0.50    14.50    99.00    99.00
 8 10 28  5    15.0 1    0.0     0.00    13.90    99.00    99.00
 8 10 28  6    15.0 1    0.0     0.00    13.50    99.00    99.00
 8 10 28  7    15.0 1    0.0     0.00    13.10    99.00    99.00
 8 10 28  8    15.0 1   28.0     0.50    12.80    99.00    99.00
 8 10 28  9    15.0 1  353.0     0.50    14.10    99.00    99.00
 8 10 28 10    15.0 1    0.0     0.00    16.10    99.00    99.00
 8 10 28 11    15.0 1    0.0     0.00    18.40    99.00    99.00
 8 10 28 12    15.0 1  325.0     1.00    20.00    99.00    99.00
 8 10 28 13    15.0 1  316.0     1.50    21.10    99.00    99.00
 8 10 28 14    15.0 1  326.0     1.50    22.00    99.00    99.00
 8 10 28 15    15.0 1  343.0     2.10    22.50    99.00    99.00
 8 10 28 16    15.0 1  343.0     2.10    22.50    99.00    99.00
 8 10 28 17    15.0 1  342.0     1.00    22.10    99.00    99.00
 8 10 28 18    15.0 1    0.0     0.00    21.10    99.00    99.00
 8 10 28 19    15.0 1    0.0     0.00    19.90    99.00    99.00
 8 10 28 20    15.0 1    0.0     0.00    18.80    99.00    99.00
 8 10 28 21    15.0 1    0.0     0.00    17.80    99.00    99.00
 8 10 28 22    15.0 1    0.0     0.00    16.90    99.00    99.00
 8 10 28 23    15.0 1    0.0     0.00    16.30    99.00    99.00
 8 10 28 24    15.0 1  335.0     0.50    15.80    99.00    99.00
 8 10 29  1    15.0 1  340.0     0.50    15.40    99.00    99.00
 8 10 29  2    15.0 1  345.0     0.50    15.10    99.00    99.00
 8 10 29  3    15.0 1  343.0     0.50    14.60    99.00    99.00
 8 10 29  4    15.0 1  336.0     0.50    14.30    99.00    99.00
 8 10 29  5    15.0 1  338.0     0.50    14.00    99.00    99.00
 8 10 29  6    15.0 1    0.0     0.00    13.60    99.00    99.00
 8 10 29  7    15.0 1    0.0     0.00    13.30    99.00    99.00
 8 10 29  8    15.0 1    0.0     0.00    13.10    99.00    99.00
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 8 10 29  9    15.0 1     0.0     0.00    15.10    99.00    99.00
 8 10 29 10    15.0 1     0.0     0.00    17.10    99.00    99.00
 8 10 29 11    15.0 1     0.0     0.00    19.10    99.00    99.00
 8 10 29 12    15.0 1     0.0     0.00    20.60    99.00    99.00
 8 10 29 13    15.0 1   323.0     0.50    21.60    99.00    99.00
 8 10 29 14    15.0 1   328.0     0.50    22.50    99.00    99.00
 8 10 29 15    15.0 1   343.0     1.00    22.90    99.00    99.00
 8 10 29 16    15.0 1   349.0     1.50    22.90    99.00    99.00
 8 10 29 17    15.0 1    14.0     1.50    22.40    99.00    99.00
 8 10 29 18    15.0 1    14.0     0.50    21.10    99.00    99.00
 8 10 29 19    15.0 1     0.0     0.00    19.90    99.00    99.00
 8 10 29 20    15.0 1     0.0     0.00    18.60    99.00    99.00
 8 10 29 21    15.0 1     0.0     0.00    17.60    99.00    99.00
 8 10 29 22    15.0 1     0.0     0.00    16.90    99.00    99.00
 8 10 29 23    15.0 1   359.0     1.00    16.30    99.00    99.00
 8 10 29 24    15.0 1     7.0     2.10    15.80    99.00    99.00
 8 10 30  1    15.0 1    10.0     2.10    15.60    99.00    99.00
 8 10 30  2    15.0 1   330.0     1.00    15.50    99.00    99.00
 8 10 30  3    15.0 1   256.0     0.50    15.10    99.00    99.00
 8 10 30  4    15.0 1   247.0     1.00    14.80    99.00    99.00
 8 10 30  5    15.0 1   280.0     0.50    14.50    99.00    99.00
 8 10 30  6    15.0 1   307.0     0.50    14.30    99.00    99.00
 8 10 30  7    15.0 1   305.0     0.50    14.10    99.00    99.00
 8 10 30  8    15.0 1     0.0     0.00    14.10    99.00    99.00
 8 10 30  9    15.0 1    26.0     0.50    15.30    99.00    99.00
 8 10 30 10    15.0 1     0.0     0.00    17.80    99.00    99.00
 8 10 30 11    15.0 1   279.0     1.00    20.30    99.00    99.00
 8 10 30 12    15.0 1   291.0     1.50    21.60    99.00    99.00
 8 10 30 13    15.0 1   335.0     2.60    22.10    99.00    99.00
 8 10 30 14    15.0 1   354.0     4.10    22.10    99.00    99.00
 8 10 30 15    15.0 1   350.0     4.60    22.10    99.00    99.00
 8 10 30 16    15.0 1   331.0     5.70    21.30    99.00    99.00
 8 10 30 17    15.0 1   319.0     5.10    20.10    99.00    99.00
 8 10 30 18    15.0 1   343.0     3.60    19.60    99.00    99.00
 8 10 30 19    15.0 1   329.0     3.10    19.10    99.00    99.00
 8 10 30 20    15.0 1   344.0     2.60    19.00    99.00    99.00
 8 10 30 21    15.0 1     0.0     0.00    19.00    99.00    99.00
 8 10 30 22    15.0 1     8.0     1.50    19.00    99.00    99.00
 8 10 30 23    15.0 1     0.0     0.00    19.00    99.00    99.00
 8 10 30 24    15.0 1   347.0     1.00    19.00    99.00    99.00
 8 10 31  1    15.0 1   306.0     1.00    19.00    99.00    99.00
 8 10 31  2    15.0 1   290.0     1.00    19.00    99.00    99.00
 8 10 31  3    15.0 1   220.0     0.50    19.30    99.00    99.00
 8 10 31  4    15.0 1   197.0     1.00    19.30    99.00    99.00
 8 10 31  5    15.0 1   220.0     1.50    19.30    99.00    99.00
 8 10 31  6    15.0 1   211.0     1.00    19.10    99.00    99.00
 8 10 31  7    15.0 1   190.0     0.50    19.30    99.00    99.00
 8 10 31  8    15.0 1     0.0     0.00    19.30    99.00    99.00
 8 10 31  9    15.0 1     0.0     0.00    20.80    99.00    99.00
 8 10 31 10    15.0 1     0.0     0.00    22.60    99.00    99.00
 8 10 31 11    15.0 1     0.0     0.00    23.80    99.00    99.00
 8 10 31 12    15.0 1   280.0     0.50    24.50    99.00    99.00
 8 10 31 13    15.0 1   272.0     0.50    24.80    99.00    99.00
 8 10 31 14    15.0 1   337.0     0.50    25.00    99.00    99.00
 8 10 31 15    15.0 1    11.0     2.10    24.80    99.00    99.00
 8 10 31 16    15.0 1    29.0     2.60    24.00    99.00    99.00
 8 10 31 17    15.0 1    41.0     3.60    22.80    99.00    99.00
 8 10 31 18    15.0 1    59.0     3.60    21.90    99.00    99.00
 8 10 31 19    15.0 1    66.0     2.60    21.60    99.00    99.00
 8 10 31 20    15.0 1   125.0     0.50    21.10    99.00    99.00
 8 10 31 21    15.0 1   187.0     0.50    20.60    99.00    99.00
 8 10 31 22    15.0 1   170.0     0.50    20.30    99.00    99.00
 8 10 31 23    15.0 1     0.0     0.00    20.00    99.00    99.00
 8 10 31 24    15.0 1    50.0     0.50    19.80    99.00    99.00
 8 11  1  1    15.0 1    34.0     0.50    19.40    99.00    99.00
 8 11  1  2    15.0 1    22.0     0.50    19.10    99.00    99.00
 8 11  1  3    15.0 1    41.0     0.50    18.90    99.00    99.00
 8 11  1  4    15.0 1    56.0     1.00    18.60    99.00    99.00
 8 11  1  5    15.0 1    77.0     1.50    18.30    99.00    99.00
 8 11  1  6    15.0 1    91.0     2.10    18.10    99.00    99.00
 8 11  1  7    15.0 1    96.0     2.60    18.00    99.00    99.00
 8 11  1  8    15.0 1   111.0     2.60    18.00    99.00    99.00
 8 11  1  9    15.0 1   116.0     2.10    18.50    99.00    99.00
 8 11  1 10    15.0 1   128.0     1.50    20.10    99.00    99.00
 8 11  1 11    15.0 1   136.0     1.50    22.00    99.00    99.00
 8 11  1 12    15.0 1   133.0     1.00    22.90    99.00    99.00
 8 11  1 13    15.0 1    69.0     0.50    23.40    99.00    99.00
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 8 11   1 14     15.0 1    32.0     1.00    23.60    99.00    99.00
 8 11   1 15     15.0 1    18.0     1.00    23.50    99.00    99.00
 8 11   1 16     15.0 1   350.0     0.50    23.00    99.00    99.00
 8 11   1 17     15.0 1   302.0     1.00    22.40    99.00    99.00
 8 11   1 18     15.0 1   282.0     2.10    21.80    99.00    99.00
 8 11   1 19     15.0 1   271.0     3.10    20.60    99.00    99.00
 8 11   1 20     15.0 1   239.0     3.60    19.30    99.00    99.00
 8 11   1 21     15.0 1   208.0     2.60    18.30    99.00    99.00
 8 11   1 22     15.0 1   150.0     2.10    17.80    99.00    99.00
 8 11   1 23     15.0 1   125.0     3.10    17.90    99.00    99.00
 8 11   1 24     15.0 1   130.0     2.60    17.90    99.00    99.00
 8 11   2  1     15.0 1   172.0     1.50    17.60    99.00    99.00
 8 11   2  2     15.0 1   198.0     2.60    16.90    99.00    99.00
 8 11   2  3     15.0 1   218.0     2.60    16.00    99.00    99.00
 8 11   2  4     15.0 1   236.0     1.00    15.50    99.00    99.00
 8 11   2  5     15.0 1    12.0     1.00    15.10    99.00    99.00
 8 11   2  6     15.0 1    14.0     2.60    14.80    99.00    99.00
 8 11   2  7     15.0 1   358.0     3.10    14.30    99.00    99.00
 8 11   2  8     15.0 1   340.0     3.10    14.00    99.00    99.00
 8 11   2  9     15.0 1   320.0     4.10    15.40    99.00    99.00
 8 11   2 10     15.0 1   324.0     3.10    16.60    99.00    99.00
 8 11   2 11     15.0 1   321.0     2.60    17.40    99.00    99.00
 8 11   2 12     15.0 1   320.0     2.10    18.30    99.00    99.00
 8 11   2 13     15.0 1   323.0     2.10    18.90    99.00    99.00
 8 11   2 14     15.0 1   335.0     2.10    19.30    99.00    99.00
 8 11   2 15     15.0 1   341.0     2.60    19.50    99.00    99.00
 8 11   2 16     15.0 1   352.0     3.10    19.30    99.00    99.00
 8 11   2 17     15.0 1   359.0     3.60    18.60    99.00    99.00
 8 11   2 18     15.0 1     4.0     3.60    17.50    99.00    99.00
 8 11   2 19     15.0 1     0.0     0.00    16.60    99.00    99.00
 8 11   2 20     15.0 1    10.0     1.50    16.00    99.00    99.00
 8 11   2 21     15.0 1     0.0     0.00    15.60    99.00    99.00
 8 11   2 22     15.0 1   266.0     0.50    15.30    99.00    99.00
 8 11   2 23     15.0 1   277.0     2.10    14.90    99.00    99.00
 8 11   2 24     15.0 1   294.0     3.10    13.90    99.00    99.00
 8 11   3  1     15.0 1   289.0     2.60    13.00    99.00    99.00
 8 11   3  2     15.0 1   283.0     2.60    12.40    99.00    99.00
 8 11   3  3     15.0 1   288.0     2.60    12.10    99.00    99.00
 8 11   3  4     15.0 1   302.0     3.10    12.00    99.00    99.00
 8 11   3  5     15.0 1   300.0     3.60    12.00    99.00    99.00
 8 11   3  6     15.0 1   292.0     3.60    12.30    99.00    99.00
 8 11   3  7     15.0 1   295.0     3.60    12.40    99.00    99.00
 8 11   3  8     15.0 1   300.0     3.10    12.40    99.00    99.00
 8 11   3  9     15.0 1   302.0     2.60    12.60    99.00    99.00
 8 11   3 10     15.0 1   296.0     2.10    12.90    99.00    99.00
 8 11   3 11     15.0 1     0.0     0.00    13.50    99.00    99.00
 8 11   3 12     15.0 1   176.0     0.50    14.60    99.00    99.00
 8 11   3 13     15.0 1   192.0     1.50    15.60    99.00    99.00
 8 11   3 14     15.0 1   184.0     1.00    16.60    99.00    99.00
 8 11   3 15     15.0 1   150.0     0.50    17.40    99.00    99.00
 8 11   3 16     15.0 1   124.0     1.00    17.60    99.00    99.00
 8 11   3 17     15.0 1   155.0     1.50    17.40    99.00    99.00
 8 11   3 18     15.0 1   205.0     2.10    17.10    99.00    99.00
 8 11   3 19     15.0 1   236.0     2.10    16.90    99.00    99.00
 8 11   3 20     15.0 1   286.0     2.10    16.10    99.00    99.00
 8 11   3 21     15.0 1   348.0     1.50    15.40    99.00    99.00
 8 11   3 22     15.0 1    87.0     2.60    14.80    99.00    99.00
 8 11   3 23     15.0 1   107.0     2.60    14.60    99.00    99.00
 8 11   3 24     15.0 1   118.0     2.60    14.40    99.00    99.00
 8 11   4  1     15.0 1   119.0     1.50    14.30    99.00    99.00
 8 11   4  2     15.0 1   270.0     0.50    13.90    99.00    99.00
 8 11   4  3     15.0 1   279.0     3.60    13.10    99.00    99.00
 8 11   4  4     15.0 1   290.0     4.60    12.10    99.00    99.00
 8 11   4  5     15.0 1   297.0     4.10    11.40    99.00    99.00
 8 11   4  6     15.0 1   301.0     4.10    10.80    99.00    99.00
 8 11   4  7     15.0 1   309.0     4.10    10.10    99.00    99.00
 8 11   4  8     15.0 1   317.0     4.60    10.60    99.00    99.00
 8 11   4  9     15.0 1   335.0     5.70    12.50    99.00    99.00
 8 11   4 10     15.0 1   330.0     5.70    13.60    99.00    99.00
 8 11   4 11     15.0 1   332.0     5.70    14.30    99.00    99.00
 8 11   4 12     15.0 1   335.0     5.70    14.60    99.00    99.00
 8 11   4 13     15.0 1   329.0     6.20    15.10    99.00    99.00
 8 11   4 14     15.0 1   336.0     6.70    15.10    99.00    99.00
 8 11   4 15     15.0 1   340.0     7.20    15.00    99.00    99.00
 8 11   4 16     15.0 1   338.0     6.20    14.60    99.00    99.00
 8 11   4 17     15.0 1   328.0     4.10    13.60    99.00    99.00
 8 11   4 18     15.0 1   324.0     3.60    12.60    99.00    99.00
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 8 11   4 19     15.0 1   316.0     3.60    11.60    99.00    99.00
 8 11   4 20     15.0 1   319.0     3.10    11.10    99.00    99.00
 8 11   4 21     15.0 1   306.0     2.60    10.60    99.00    99.00
 8 11   4 22     15.0 1   297.0     1.50    10.30    99.00    99.00
 8 11   4 23     15.0 1   288.0     1.00     9.90    99.00    99.00
 8 11   4 24     15.0 1   269.0     0.50     9.30    99.00    99.00
 8 11   5  1     15.0 1   302.0     0.50     8.80    99.00    99.00
 8 11   5  2     15.0 1   311.0     1.00     8.30    99.00    99.00
 8 11   5  3     15.0 1   310.0     1.50     8.00    99.00    99.00
 8 11   5  4     15.0 1   314.0     1.50     7.60    99.00    99.00
 8 11   5  5     15.0 1   315.0     1.50     7.30    99.00    99.00
 8 11   5  6     15.0 1   302.0     1.00     7.00    99.00    99.00
 8 11   5  7     15.0 1   277.0     0.50     6.60    99.00    99.00
 8 11   5  8     15.0 1   242.0     0.50     6.60    99.00    99.00
 8 11   5  9     15.0 1     0.0     0.00     8.50    99.00    99.00
 8 11   5 10     15.0 1   184.0     0.50     9.60    99.00    99.00
 8 11   5 11     15.0 1     0.0     0.00    10.60    99.00    99.00
 8 11   5 12     15.0 1     0.0     0.00    11.80    99.00    99.00
 8 11   5 13     15.0 1   307.0     1.00    13.00    99.00    99.00
 8 11   5 14     15.0 1   317.0     2.10    13.90    99.00    99.00
 8 11   5 15     15.0 1   335.0     2.10    14.50    99.00    99.00
 8 11   5 16     15.0 1   344.0     2.10    14.60    99.00    99.00
 8 11   5 17     15.0 1     9.0     1.00    14.40    99.00    99.00
 8 11   5 18     15.0 1    96.0     0.50    13.50    99.00    99.00
 8 11   5 19     15.0 1   155.0     0.50    12.40    99.00    99.00
 8 11   5 20     15.0 1   157.0     1.50    11.50    99.00    99.00
 8 11   5 21     15.0 1   170.0     2.60    10.90    99.00    99.00
 8 11   5 22     15.0 1   175.0     2.60    10.40    99.00    99.00
 8 11   5 23     15.0 1   161.0     2.10     9.80    99.00    99.00
 8 11   5 24     15.0 1   123.0     1.50     9.10    99.00    99.00
 8 11   6  1     15.0 1   100.0     1.50     8.60    99.00    99.00
 8 11   6  2     15.0 1    97.0     1.00     8.30    99.00    99.00
 8 11   6  3     15.0 1     0.0     0.00     7.80    99.00    99.00
 8 11   6  4     15.0 1     0.0     0.00     7.40    99.00    99.00
 8 11   6  5     15.0 1     0.0     0.00     7.10    99.00    99.00
 8 11   6  6     15.0 1     0.0     0.00     7.00    99.00    99.00
 8 11   6  7     15.0 1   199.0     0.50     6.80    99.00    99.00
 8 11   6  8     15.0 1   197.0     0.50     7.10    99.00    99.00
 8 11   6  9     15.0 1   265.0     0.50     9.90    99.00    99.00
 8 11   6 10     15.0 1     0.0     0.00    11.90    99.00    99.00
 8 11   6 11     15.0 1     0.0     0.00    13.90    99.00    99.00
 8 11   6 12     15.0 1     0.0     0.00    15.50    99.00    99.00
 8 11   6 13     15.0 1   330.0     0.50    16.60    99.00    99.00
 8 11   6 14     15.0 1   329.0     0.50    17.40    99.00    99.00
 8 11   6 15     15.0 1   340.0     1.00    17.80    99.00    99.00
 8 11   6 16     15.0 1   353.0     1.50    17.80    99.00    99.00
 8 11   6 17     15.0 1     0.0     0.00    17.30    99.00    99.00
 8 11   6 18     15.0 1    45.0     0.50    16.30    99.00    99.00
 8 11   6 19     15.0 1     0.0     0.00    15.10    99.00    99.00
 8 11   6 20     15.0 1   231.0     0.50    14.10    99.00    99.00
 8 11   6 21     15.0 1     0.0     0.00    13.30    99.00    99.00
 8 11   6 22     15.0 1    67.0     0.50    12.60    99.00    99.00
 8 11   6 23     15.0 1    77.0     1.00    11.90    99.00    99.00
 8 11   6 24     15.0 1    70.0     0.50    11.30    99.00    99.00
 8 11   7  1     15.0 1     0.0     0.00    10.80    99.00    99.00
 8 11   7  2     15.0 1     0.0     0.00    10.40    99.00    99.00
 8 11   7  3     15.0 1   287.0     0.50    10.00    99.00    99.00
 8 11   7  4     15.0 1   288.0     1.00     9.80    99.00    99.00
 8 11   7  5     15.0 1   279.0     1.00     9.80    99.00    99.00
 8 11   7  6     15.0 1   262.0     0.50     9.60    99.00    99.00
 8 11   7  7     15.0 1   247.0     1.00     9.60    99.00    99.00
 8 11   7  8     15.0 1   243.0     0.50     9.60    99.00    99.00
 8 11   7  9     15.0 1   288.0     1.00    12.40    99.00    99.00
 8 11   7 10     15.0 1   304.0     1.00    14.50    99.00    99.00
 8 11   7 11     15.0 1   297.0     0.50    16.60    99.00    99.00
 8 11   7 12     15.0 1   318.0     0.50    18.10    99.00    99.00
 8 11   7 13     15.0 1   329.0     0.50    19.30    99.00    99.00
 8 11   7 14     15.0 1   347.0     1.50    20.00    99.00    99.00
 8 11   7 15     15.0 1     3.0     2.10    20.30    99.00    99.00
 8 11   7 16     15.0 1     8.0     2.10    20.30    99.00    99.00
 8 11   7 17     15.0 1    28.0     2.10    19.60    99.00    99.00
 8 11   7 18     15.0 1    42.0     1.00    18.50    99.00    99.00
 8 11   7 19     15.0 1     0.0     0.00    17.10    99.00    99.00
 8 11   7 20     15.0 1     0.0     0.00    15.90    99.00    99.00
 8 11   7 21     15.0 1     0.0     0.00    14.90    99.00    99.00
 8 11   7 22     15.0 1     0.0     0.00    14.00    99.00    99.00
 8 11   7 23     15.0 1     0.0     0.00    13.30    99.00    99.00
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 8 11  7 24    15.0 1     0.0     0.00    12.80    99.00    99.00
 8 11  8  1    15.0 1     0.0     0.00    12.30    99.00    99.00
 8 11  8  2    15.0 1     0.0     0.00    11.80    99.00    99.00
 8 11  8  3    15.0 1     0.0     0.00    11.40    99.00    99.00
 8 11  8  4    15.0 1     0.0     0.00    11.00    99.00    99.00
 8 11  8  5    15.0 1     0.0     0.00    10.60    99.00    99.00
 8 11  8  6    15.0 1     0.0     0.00     9.90    99.00    99.00
 8 11  8  7    15.0 1     0.0     0.00     8.90    99.00    99.00
 8 11  8  8    15.0 1     0.0     0.00     8.30    99.00    99.00
 8 11  8  9    15.0 1     0.0     0.00    10.00    99.00    99.00
 8 11  8 10    15.0 1   292.0     0.50    13.10    99.00    99.00
 8 11  8 11    15.0 1   271.0     1.00    14.60    99.00    99.00
 8 11  8 12    15.0 1   288.0     1.00    15.90    99.00    99.00
 8 11  8 13    15.0 1   313.0     1.00    16.90    99.00    99.00
 8 11  8 14    15.0 1   332.0     1.00    17.40    99.00    99.00
 8 11  8 15    15.0 1   332.0     1.00    17.60    99.00    99.00
 8 11  8 16    15.0 1     0.0     0.00    17.40    99.00    99.00
 8 11  8 17    15.0 1     0.0     0.00    16.80    99.00    99.00
 8 11  8 18    15.0 1     0.0     0.00    16.10    99.00    99.00
 8 11  8 19    15.0 1     0.0     0.00    15.50    99.00    99.00
 8 11  8 20    15.0 1     0.0     0.00    15.10    99.00    99.00
 8 11  8 21    15.0 1   308.0     1.50    14.90    99.00    99.00
 8 11  8 22    15.0 1   310.0     4.10    14.10    99.00    99.00
 8 11  8 23    15.0 1   307.0     3.10    13.40    99.00    99.00
 8 11  8 24    15.0 1   310.0     3.10    13.30    99.00    99.00
 8 11  9  1    15.0 1   312.0     3.60    13.60    99.00    99.00
 8 11  9  2    15.0 1   295.0     4.60    13.60    99.00    99.00
 8 11  9  3    15.0 1   288.0     5.10    13.10    99.00    99.00
 8 11  9  4    15.0 1   288.0     5.10    12.90    99.00    99.00
 8 11  9  5    15.0 1   294.0     5.10    11.60    99.00    99.00
 8 11  9  6    15.0 1   286.0     4.60    10.60    99.00    99.00
 8 11  9  7    15.0 1   293.0     4.60    10.10    99.00    99.00
 8 11  9  8    15.0 1   286.0     4.10    10.10    99.00    99.00
 8 11  9  9    15.0 1   313.0     6.20    11.80    99.00    99.00
 8 11  9 10    15.0 1   324.0     6.70    12.60    99.00    99.00
 8 11  9 11    15.0 1   332.0     6.70    13.10    99.00    99.00
 8 11  9 12    15.0 1   326.0     7.20    13.10    99.00    99.00
 8 11  9 13    15.0 1   326.0     7.20    13.40    99.00    99.00
 8 11  9 14    15.0 1   342.0     6.20    13.30    99.00    99.00
 8 11  9 15    15.0 1   346.0     4.60    13.10    99.00    99.00
 8 11  9 16    15.0 1     0.0     0.00    12.90    99.00    99.00
 8 11  9 17    15.0 1     0.0     0.00    12.50    99.00    99.00
 8 11  9 18    15.0 1   351.0     3.10    12.30    99.00    99.00
 8 11  9 19    15.0 1   334.0     2.60    12.10    99.00    99.00
 8 11  9 20    15.0 1   318.0     2.60    12.10    99.00    99.00
 8 11  9 21    15.0 1   306.0     2.60    12.00    99.00    99.00
 8 11  9 22    15.0 1   296.0     1.50    11.90    99.00    99.00
 8 11  9 23    15.0 1   294.0     1.50    11.80    99.00    99.00
 8 11  9 24    15.0 1   288.0     1.50    11.60    99.00    99.00
 8 11 10  1    15.0 1   291.0     1.50    11.50    99.00    99.00
 8 11 10  2    15.0 1   302.0     1.50    11.50    99.00    99.00
 8 11 10  3    15.0 1   301.0     1.50    11.50    99.00    99.00
 8 11 10  4    15.0 1   311.0     2.10    11.40    99.00    99.00
 8 11 10  5    15.0 1   308.0     2.60    11.30    99.00    99.00
 8 11 10  6    15.0 1   311.0     2.60    11.10    99.00    99.00
 8 11 10  7    15.0 1   317.0     3.10    10.90    99.00    99.00
 8 11 10  8    15.0 1   330.0     3.10    10.50    99.00    99.00
 8 11 10  9    15.0 1   341.0     3.10    10.10    99.00    99.00
 8 11 10 10    15.0 1   342.0     2.60    10.30    99.00    99.00
 8 11 10 11    15.0 1   343.0     2.10    10.60    99.00    99.00
 8 11 10 12    15.0 1   330.0     1.00    11.60    99.00    99.00
 8 11 10 13    15.0 1   326.0     0.50    12.10    99.00    99.00
 8 11 10 14    15.0 1   357.0     1.00    12.90    99.00    99.00
 8 11 10 15    15.0 1     4.0     1.50    13.60    99.00    99.00
 8 11 10 16    15.0 1     6.0     1.00    14.90    99.00    99.00
 8 11 10 17    15.0 1    38.0     1.50    14.60    99.00    99.00
 8 11 10 18    15.0 1    61.0     2.10    13.60    99.00    99.00
 8 11 10 19    15.0 1    66.0     1.50    12.90    99.00    99.00
 8 11 10 20    15.0 1    86.0     1.50    12.10    99.00    99.00
 8 11 10 21    15.0 1    98.0     1.50    11.30    99.00    99.00
 8 11 10 22    15.0 1   111.0     1.50    10.60    99.00    99.00
 8 11 10 23    15.0 1   106.0     1.50    10.10    99.00    99.00
 8 11 10 24    15.0 1   116.0     1.50     9.60    99.00    99.00
 8 11 11  1    15.0 1   107.0     1.00     9.10    99.00    99.00
 8 11 11  2    15.0 1     0.0     0.00     8.60    99.00    99.00
 8 11 11  3    15.0 1     0.0     0.00     8.30    99.00    99.00
 8 11 11  4    15.0 1     0.0     0.00     8.10    99.00    99.00
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 8 11 11  5    15.0 1     0.0     0.00     7.10    99.00    99.00
 8 11 11  6    15.0 1     0.0     0.00     6.10    99.00    99.00
 8 11 11  7    15.0 1     0.0     0.00     6.40    99.00    99.00
 8 11 11  8    15.0 1     0.0     0.00     6.80    99.00    99.00
 8 11 11  9    15.0 1   279.0     0.50     7.30    99.00    99.00
 8 11 11 10    15.0 1   264.0     0.50     7.50    99.00    99.00
 8 11 11 11    15.0 1   274.0     0.50     8.00    99.00    99.00
 8 11 11 12    15.0 1     0.0     0.00     9.00    99.00    99.00
 8 11 11 13    15.0 1   348.0     0.50    11.80    99.00    99.00
 8 11 11 14    15.0 1   335.0     1.00    13.90    99.00    99.00
 8 11 11 15    15.0 1   341.0     1.50    14.80    99.00    99.00
 8 11 11 16    15.0 1     2.0     2.10    14.90    99.00    99.00
 8 11 11 17    15.0 1    21.0     2.10    14.40    99.00    99.00
 8 11 11 18    15.0 1    48.0     1.50    13.50    99.00    99.00
 8 11 11 19    15.0 1   108.0     1.00    12.60    99.00    99.00
 8 11 11 20    15.0 1   140.0     1.50    12.00    99.00    99.00
 8 11 11 21    15.0 1   137.0     1.50    11.50    99.00    99.00
 8 11 11 22    15.0 1   141.0     1.50    11.10    99.00    99.00
 8 11 11 23    15.0 1   138.0     2.10    10.60    99.00    99.00
 8 11 11 24    15.0 1   148.0     2.10    10.40    99.00    99.00
 8 11 12  1    15.0 1   147.0     1.50    10.10    99.00    99.00
 8 11 12  2    15.0 1   152.0     1.50     9.90    99.00    99.00
 8 11 12  3    15.0 1   155.0     1.50     9.60    99.00    99.00
 8 11 12  4    15.0 1   151.0     1.00     9.50    99.00    99.00
 8 11 12  5    15.0 1   128.0     1.00     9.30    99.00    99.00
 8 11 12  6    15.0 1   134.0     1.00     9.10    99.00    99.00
 8 11 12  7    15.0 1   143.0     1.00     8.90    99.00    99.00
 8 11 12  8    15.0 1   154.0     1.00     9.00    99.00    99.00
 8 11 12  9    15.0 1   173.0     0.50    11.50    99.00    99.00
 8 11 12 10    15.0 1     0.0     0.00    13.30    99.00    99.00
 8 11 12 11    15.0 1     0.0     0.00    15.00    99.00    99.00
 8 11 12 12    15.0 1     0.0     0.00    16.10    99.00    99.00
 8 11 12 13    15.0 1   323.0     0.50    17.30    99.00    99.00
 8 11 12 14    15.0 1   331.0     1.00    18.10    99.00    99.00
 8 11 12 15    15.0 1   345.0     1.50    18.60    99.00    99.00
 8 11 12 16    15.0 1   354.0     1.50    18.60    99.00    99.00
 8 11 12 17    15.0 1   360.0     1.50    18.10    99.00    99.00
 8 11 12 18    15.0 1     0.0     0.00    17.10    99.00    99.00
 8 11 12 19    15.0 1     3.0     1.50    16.00    99.00    99.00
 8 11 12 20    15.0 1   357.0     1.50    15.10    99.00    99.00
 8 11 12 21    15.0 1     0.0     0.00    14.40    99.00    99.00
 8 11 12 22    15.0 1    12.0     1.50    13.60    99.00    99.00
 8 11 12 23    15.0 1     4.0     0.50    13.10    99.00    99.00
 8 11 12 24    15.0 1   308.0     0.50    12.60    99.00    99.00
 8 11 13  1    15.0 1     0.0     0.00    12.10    99.00    99.00
 8 11 13  2    15.0 1   262.0     0.50    11.80    99.00    99.00
 8 11 13  3    15.0 1   287.0     0.50    11.60    99.00    99.00
 8 11 13  4    15.0 1   303.0     0.50    11.60    99.00    99.00
 8 11 13  5    15.0 1     0.0     0.00    12.00    99.00    99.00
 8 11 13  6    15.0 1     0.0     0.00    12.10    99.00    99.00
 8 11 13  7    15.0 1     0.0     0.00    12.30    99.00    99.00
 8 11 13  8    15.0 1     0.0     0.00    12.40    99.00    99.00
 8 11 13  9    15.0 1     0.0     0.00    12.60    99.00    99.00
 8 11 13 10    15.0 1   252.0     0.50    12.90    99.00    99.00
 8 11 13 11    15.0 1   262.0     0.50    13.10    99.00    99.00
 8 11 13 12    15.0 1   279.0     0.50    13.30    99.00    99.00
 8 11 13 13    15.0 1   294.0     0.50    13.40    99.00    99.00
 8 11 13 14    15.0 1   330.0     1.00    13.60    99.00    99.00
 8 11 13 15    15.0 1    28.0     1.00    14.00    99.00    99.00
 8 11 13 16    15.0 1    63.0     2.10    14.10    99.00    99.00
 8 11 13 17    15.0 1   102.0     2.60    13.60    99.00    99.00
 8 11 13 18    15.0 1   121.0     3.10    13.00    99.00    99.00
 8 11 13 19    15.0 1   154.0     3.10    12.60    99.00    99.00
 8 11 13 20    15.0 1   163.0     3.60    12.40    99.00    99.00
 8 11 13 21    15.0 1   158.0     3.60    12.30    99.00    99.00
 8 11 13 22    15.0 1   151.0     3.60    11.80    99.00    99.00
 8 11 13 23    15.0 1   151.0     3.10    11.40    99.00    99.00
 8 11 13 24    15.0 1   148.0     3.10    11.40    99.00    99.00
 8 11 14  1    15.0 1   164.0     2.60    11.60    99.00    99.00
 8 11 14  2    15.0 1   178.0     2.10    11.60    99.00    99.00
 8 11 14  3    15.0 1   202.0     1.50    11.60    99.00    99.00
 8 11 14  4    15.0 1   211.0     1.00    11.80    99.00    99.00
 8 11 14  5    15.0 1   233.0     1.00    11.60    99.00    99.00
 8 11 14  6    15.0 1   257.0     1.00    11.60    99.00    99.00
 8 11 14  7    15.0 1   275.0     1.00    11.10    99.00    99.00
 8 11 14  8    15.0 1   262.0     1.00    10.80    99.00    99.00
 8 11 14  9    15.0 1   266.0     1.00    10.60    99.00    99.00
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 8 11 14 10    15.0 1   294.0     1.00    11.00    99.00    99.00
 8 11 14 11    15.0 1   328.0     1.00    12.40    99.00    99.00
 8 11 14 12    15.0 1     6.0     0.50    14.80    99.00    99.00
 8 11 14 13    15.0 1   337.0     0.50    17.60    99.00    99.00
 8 11 14 14    15.0 1   334.0     1.00    19.30    99.00    99.00
 8 11 14 15    15.0 1   349.0     1.50    19.80    99.00    99.00
 8 11 14 16    15.0 1    16.0     2.10    19.60    99.00    99.00
 8 11 14 17    15.0 1    38.0     3.10    18.60    99.00    99.00
 8 11 14 18    15.0 1    49.0     2.10    17.50    99.00    99.00
 8 11 14 19    15.0 1     0.0     0.00    16.40    99.00    99.00
 8 11 14 20    15.0 1    39.0     0.50    15.60    99.00    99.00
 8 11 14 21    15.0 1    61.0     1.50    15.40    99.00    99.00
 8 11 14 22    15.0 1    78.0     2.60    15.00    99.00    99.00
 8 11 14 23    15.0 1    86.0     3.60    14.50    99.00    99.00
 8 11 14 24    15.0 1   103.0     3.60    14.10    99.00    99.00
 8 11 15  1    15.0 1   103.0     3.60    13.60    99.00    99.00
 8 11 15  2    15.0 1    88.0     4.10    13.10    99.00    99.00
 8 11 15  3    15.0 1    87.0     3.60    12.90    99.00    99.00
 8 11 15  4    15.0 1    89.0     3.10    12.60    99.00    99.00
 8 11 15  5    15.0 1    87.0     2.10    12.00    99.00    99.00
 8 11 15  6    15.0 1    56.0     1.50    10.80    99.00    99.00
 8 11 15  7    15.0 1    49.0     1.50    10.10    99.00    99.00
 8 11 15  8    15.0 1    46.0     1.50     9.10    99.00    99.00
 8 11 15  9    15.0 1    40.0     1.00    11.00    99.00    99.00
 8 11 15 10    15.0 1    24.0     0.50    15.60    99.00    99.00
 8 11 15 11    15.0 1    16.0     1.00    17.60    99.00    99.00
 8 11 15 12    15.0 1    16.0     1.00    19.60    99.00    99.00
 8 11 15 13    15.0 1    24.0     1.50    21.00    99.00    99.00
 8 11 15 14    15.0 1     9.0     2.60    21.80    99.00    99.00
 8 11 15 15    15.0 1     6.0     3.10    21.90    99.00    99.00
 8 11 15 16    15.0 1    16.0     3.60    22.50    99.00    99.00
 8 11 15 17    15.0 1    38.0     4.10    21.10    99.00    99.00
 8 11 15 18    15.0 1    42.0     3.60    20.40    99.00    99.00
 8 11 15 19    15.0 1    56.0     1.50    19.40    99.00    99.00
 8 11 15 20    15.0 1   169.0     0.50    18.10    99.00    99.00
 8 11 15 21    15.0 1   195.0     0.50    17.30    99.00    99.00
 8 11 15 22    15.0 1   122.0     0.50    16.50    99.00    99.00
 8 11 15 23    15.0 1   101.0     0.50    15.80    99.00    99.00
 8 11 15 24    15.0 1    92.0     0.50    15.10    99.00    99.00
 8 11 16  1    15.0 1    72.0     0.50    14.40    99.00    99.00
 8 11 16  2    15.0 1    55.0     0.50    13.80    99.00    99.00
 8 11 16  3    15.0 1    33.0     0.50    13.30    99.00    99.00
 8 11 16  4    15.0 1    15.0     0.50    12.60    99.00    99.00
 8 11 16  5    15.0 1   349.0     1.00    12.30    99.00    99.00
 8 11 16  6    15.0 1   333.0     1.00    12.10    99.00    99.00
 8 11 16  7    15.0 1   296.0     0.50    12.00    99.00    99.00
 8 11 16  8    15.0 1   256.0     0.50    12.10    99.00    99.00
 8 11 16  9    15.0 1   285.0     1.50    14.10    99.00    99.00
 8 11 16 10    15.0 1   286.0     2.10    16.50    99.00    99.00
 8 11 16 11    15.0 1   311.0     1.00    18.30    99.00    99.00
 8 11 16 12    15.0 1   316.0     0.50    19.90    99.00    99.00
 8 11 16 13    15.0 1   343.0     0.50    21.30    99.00    99.00
 8 11 16 14    15.0 1   346.0     1.50    22.10    99.00    99.00
 8 11 16 15    15.0 1     0.0     0.00    22.50    99.00    99.00
 8 11 16 16    15.0 1    20.0     2.60    22.10    99.00    99.00
 8 11 16 17    15.0 1    28.0     3.10    21.10    99.00    99.00
 8 11 16 18    15.0 1    34.0     2.60    20.10    99.00    99.00
 8 11 16 19    15.0 1    28.0     1.00    18.60    99.00    99.00
 8 11 16 20    15.0 1     0.0     0.00    17.40    99.00    99.00
 8 11 16 21    15.0 1   293.0     0.50    16.50    99.00    99.00
 8 11 16 22    15.0 1    10.0     0.50    15.80    99.00    99.00
 8 11 16 23    15.0 1    39.0     1.00    15.30    99.00    99.00
 8 11 16 24    15.0 1    43.0     0.50    14.60    99.00    99.00
 8 11 17  1    15.0 1     0.0     0.00    14.10    99.00    99.00
 8 11 17  2    15.0 1     0.0     0.00    13.60    99.00    99.00
 8 11 17  3    15.0 1     0.0     0.00    13.30    99.00    99.00
 8 11 17  4    15.0 1    78.0     0.50    13.00    99.00    99.00
 8 11 17  5    15.0 1    66.0     0.50    12.80    99.00    99.00
 8 11 17  6    15.0 1    56.0     0.50    12.60    99.00    99.00
 8 11 17  7    15.0 1   300.0     0.50    12.60    99.00    99.00
 8 11 17  8    15.0 1   292.0     0.50    12.60    99.00    99.00
 8 11 17  9    15.0 1   304.0     1.50    14.50    99.00    99.00
 8 11 17 10    15.0 1   303.0     2.60    17.30    99.00    99.00
 8 11 17 11    15.0 1   315.0     2.10    19.00    99.00    99.00
 8 11 17 12    15.0 1   320.0     1.50    20.60    99.00    99.00
 8 11 17 13    15.0 1   328.0     1.00    22.10    99.00    99.00
 8 11 17 14    15.0 1   328.0     1.00    23.10    99.00    99.00
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 8 11 17 15     15.0 1   332.0      1.50     23.50     99.00     99.00
 8 11 17 16     15.0 1   347.0      1.00     23.30     99.00     99.00
 8 11 17 17     15.0 1    17.0      0.50     22.30     99.00     99.00
 8 11 17 18     15.0 1     0.0      0.00     20.80     99.00     99.00
 8 11 17 19     15.0 1     0.0      0.00     19.30     99.00     99.00
 8 11 17 20     15.0 1     0.0      0.00     18.00     99.00     99.00
 8 11 17 21     15.0 1     0.0      0.00     17.10     99.00     99.00
 8 11 17 22     15.0 1     0.0      0.00     16.30     99.00     99.00
 8 11 17 23     15.0 1    53.0      0.50     15.60     99.00     99.00
 8 11 17 24     15.0 1    65.0      0.50     15.10     99.00     99.00
 8 11 18  1     15.0 1    47.0      0.50     14.80     99.00     99.00
 8 11 18  2     15.0 1    37.0      0.50     14.40     99.00     99.00
 8 11 18  3     15.0 1    16.0      0.50     14.10     99.00     99.00
 8 11 18  4     15.0 1    15.0      0.50     13.80     99.00     99.00
 8 11 18  5     15.0 1   342.0      1.00     13.40     99.00     99.00
 8 11 18  6     15.0 1   318.0      1.50     13.10     99.00     99.00
 8 11 18  7     15.0 1   307.0      1.50     13.10     99.00     99.00
 8 11 18  8     15.0 1   299.0      1.50     13.00     99.00     99.00
 8 11 18  9     15.0 1   314.0      2.60     14.50     99.00     99.00
 8 11 18 10     15.0 1   306.0      2.60     16.30     99.00     99.00
 8 11 18 11     15.0 1   305.0      2.10     18.10     99.00     99.00
 8 11 18 12     15.0 1   313.0      1.50     19.60     99.00     99.00
 8 11 18 13     15.0 1   313.0      0.50     21.10     99.00     99.00
 8 11 18 14     15.0 1   317.0      1.00     22.30     99.00     99.00
 8 11 18 15     15.0 1   335.0      1.50     22.60     99.00     99.00
 8 11 18 16     15.0 1   342.0      1.00     22.30     99.00     99.00
 8 11 18 17     15.0 1   346.0      0.50     21.10     99.00     99.00
 8 11 18 18     15.0 1     0.0      0.00     19.80     99.00     99.00
 8 11 18 19     15.0 1     0.0      0.00     18.50     99.00     99.00
 8 11 18 20     15.0 1     0.0      0.00     17.40     99.00     99.00
 8 11 18 21     15.0 1     0.0      0.00     16.50     99.00     99.00
 8 11 18 22     15.0 1     0.0      0.00     15.80     99.00     99.00
 8 11 18 23     15.0 1    12.0      1.00     15.10     99.00     99.00
 8 11 18 24     15.0 1   358.0      1.50     14.60     99.00     99.00
 8 11 19  1     15.0 1   336.0      1.50     14.10     99.00     99.00
 8 11 19  2     15.0 1   309.0      2.10     13.80     99.00     99.00
 8 11 19  3     15.0 1   312.0      2.60     13.40     99.00     99.00
 8 11 19  4     15.0 1   312.0      2.60     12.90     99.00     99.00
 8 11 19  5     15.0 1   309.0      1.50     12.40     99.00     99.00
 8 11 19  6     15.0 1   306.0      1.00     12.00     99.00     99.00
 8 11 19  7     15.0 1   319.0      0.50     11.50     99.00     99.00
 8 11 19  8     15.0 1   358.0      0.50     11.30     99.00     99.00
 8 11 19  9     15.0 1   340.0      1.50     12.40     99.00     99.00
 8 11 19 10     15.0 1   345.0      1.00     13.30     99.00     99.00
 8 11 19 11     15.0 1     2.0      0.50     15.10     99.00     99.00
 8 11 19 12     15.0 1   332.0      1.00     17.10     99.00     99.00
 8 11 19 13     15.0 1   325.0      1.50     18.50     99.00     99.00
 8 11 19 14     15.0 1   326.0      2.10     19.00     99.00     99.00
 8 11 19 15     15.0 1   344.0      2.60     19.00     99.00     99.00
 8 11 19 16     15.0 1   345.0      1.50     18.80     99.00     99.00
 8 11 19 17     15.0 1   323.0      1.00     18.10     99.00     99.00
 8 11 19 18     15.0 1   257.0      1.00     17.30     99.00     99.00
 8 11 19 19     15.0 1   245.0      1.00     16.50     99.00     99.00
 8 11 19 20     15.0 1   262.0      0.50     15.80     99.00     99.00
 8 11 19 21     15.0 1   319.0      0.50     15.30     99.00     99.00
 8 11 19 22     15.0 1   332.0      1.00     15.00     99.00     99.00
 8 11 19 23     15.0 1   344.0      1.00     14.60     99.00     99.00
 8 11 19 24     15.0 1   337.0      1.50     14.40     99.00     99.00
 8 11 20  1     15.0 1   338.0      1.00     14.10     99.00     99.00
 8 11 20  2     15.0 1   323.0      0.50     13.80     99.00     99.00
 8 11 20  3     15.0 1   300.0      0.50     13.60     99.00     99.00
 8 11 20  4     15.0 1     0.0      0.00     13.30     99.00     99.00
 8 11 20  5     15.0 1     0.0      0.00     13.10     99.00     99.00
 8 11 20  6     15.0 1     0.0      0.00     12.80     99.00     99.00
 8 11 20  7     15.0 1     0.0      0.00     12.30     99.00     99.00
 8 11 20  8     15.0 1     0.0      0.00     11.90     99.00     99.00
 8 11 20  9     15.0 1     0.0      0.00     13.40     99.00     99.00
 8 11 20 10     15.0 1   348.0      0.50     14.90     99.00     99.00
 8 11 20 11     15.0 1   328.0      1.00     16.00     99.00     99.00
 8 11 20 12     15.0 1   316.0      1.00     17.10     99.00     99.00
 8 11 20 13     15.0 1   324.0      1.50     18.10     99.00     99.00
 8 11 20 14     15.0 1   329.0      2.10     18.80     99.00     99.00
 8 11 20 15     15.0 1   335.0      2.60     19.00     99.00     99.00
 8 11 20 16     15.0 1   322.0      2.10     19.80     99.00     99.00
 8 11 20 17     15.0 1   322.0      2.10     19.10     99.00     99.00
 8 11 20 18     15.0 1   312.0      1.50     18.10     99.00     99.00
 8 11 20 19     15.0 1   308.0      1.50     17.10     99.00     99.00
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 8 11 20 20    15.0 1   321.0     2.10    16.10    99.00    99.00
 8 11 20 21    15.0 1   339.0     2.60    14.90    99.00    99.00
 8 11 20 22    15.0 1   352.0     3.10    13.80    99.00    99.00
 8 11 20 23    15.0 1   357.0     2.60    12.90    99.00    99.00
 8 11 20 24    15.0 1   357.0     2.10    12.10    99.00    99.00
 8 11 21  1    15.0 1   358.0     2.10    11.50    99.00    99.00
 8 11 21  2    15.0 1   355.0     1.50    11.00    99.00    99.00
 8 11 21  3    15.0 1   354.0     2.10    10.60    99.00    99.00
 8 11 21  4    15.0 1   338.0     1.50    10.50    99.00    99.00
 8 11 21  5    15.0 1   331.0     1.50    10.40    99.00    99.00
 8 11 21  6    15.0 1   300.0     1.00    10.10    99.00    99.00
 8 11 21  7    15.0 1   282.0     1.00     9.90    99.00    99.00
 8 11 21  8    15.0 1   284.0     1.50     9.90    99.00    99.00
 8 11 21  9    15.0 1   284.0     1.50     9.90    99.00    99.00
 8 11 21 10    15.0 1     0.0     0.00    10.60    99.00    99.00
 8 11 21 11    15.0 1     0.0     0.00    12.00    99.00    99.00
 8 11 21 12    15.0 1     0.0     0.00    13.60    99.00    99.00
 8 11 21 13    15.0 1     0.0     0.00    15.10    99.00    99.00
 8 11 21 14    15.0 1     0.0     0.00    16.00    99.00    99.00
 8 11 21 15    15.0 1   331.0     0.50    16.50    99.00    99.00
 8 11 21 16    15.0 1   331.0     1.00    16.60    99.00    99.00
 8 11 21 17    15.0 1   334.0     0.50    16.10    99.00    99.00
 8 11 21 18    15.0 1     0.0     0.00    15.10    99.00    99.00
 8 11 21 19    15.0 1     0.0     0.00    14.10    99.00    99.00
 8 11 21 20    15.0 1     0.0     0.00    13.10    99.00    99.00
 8 11 21 21    15.0 1     0.0     0.00    12.10    99.00    99.00
 8 11 21 22    15.0 1   315.0     0.50    11.50    99.00    99.00
 8 11 21 23    15.0 1   303.0     0.50    11.00    99.00    99.00
 8 11 21 24    15.0 1   304.0     1.50    10.60    99.00    99.00
 8 11 22  1    15.0 1   300.0     1.50    10.30    99.00    99.00
 8 11 22  2    15.0 1   301.0     1.50     9.90    99.00    99.00
 8 11 22  3    15.0 1   295.0     1.00     9.60    99.00    99.00
 8 11 22  4    15.0 1   281.0     1.00     9.30    99.00    99.00
 8 11 22  5    15.0 1   280.0     0.50     9.10    99.00    99.00
 8 11 22  6    15.0 1     0.0     0.00     8.60    99.00    99.00
 8 11 22  7    15.0 1   251.0     0.50     8.10    99.00    99.00
 8 11 22  8    15.0 1     0.0     0.00     8.00    99.00    99.00
 8 11 22  9    15.0 1   321.0     0.50     9.50    99.00    99.00
 8 11 22 10    15.0 1   314.0     0.50    11.50    99.00    99.00
 8 11 22 11    15.0 1     0.0     0.00    13.30    99.00    99.00
 8 11 22 12    15.0 1     0.0     0.00    15.10    99.00    99.00
 8 11 22 13    15.0 1     0.0     0.00    16.30    99.00    99.00
 8 11 22 14    15.0 1   312.0     0.50    16.90    99.00    99.00
 8 11 22 15    15.0 1   322.0     0.50    17.30    99.00    99.00
 8 11 22 16    15.0 1   333.0     0.50    17.30    99.00    99.00
 8 11 22 17    15.0 1     0.0     0.00    16.50    99.00    99.00
 8 11 22 18    15.0 1     0.0     0.00    15.10    99.00    99.00
 8 11 22 19    15.0 1     0.0     0.00    14.00    99.00    99.00
 8 11 22 20    15.0 1   157.0     0.50    12.90    99.00    99.00
 8 11 22 21    15.0 1     0.0     0.00    12.00    99.00    99.00
 8 11 22 22    15.0 1     0.0     0.00    11.10    99.00    99.00
 8 11 22 23    15.0 1     0.0     0.00    10.40    99.00    99.00
 8 11 22 24    15.0 1     0.0     0.00     9.80    99.00    99.00
 8 11 23  1    15.0 1     0.0     0.00     9.50    99.00    99.00
 8 11 23  2    15.0 1   334.0     0.50     9.10    99.00    99.00
 8 11 23  3    15.0 1   306.0     1.00     8.80    99.00    99.00
 8 11 23  4    15.0 1   307.0     1.00     8.60    99.00    99.00
 8 11 23  5    15.0 1   311.0     1.50     8.40    99.00    99.00
 8 11 23  6    15.0 1   318.0     1.00     8.10    99.00    99.00
 8 11 23  7    15.0 1   316.0     1.00     8.00    99.00    99.00
 8 11 23  8    15.0 1   307.0     1.00     7.90    99.00    99.00
 8 11 23  9    15.0 1   320.0     1.00     9.80    99.00    99.00
 8 11 23 10    15.0 1   311.0     1.00    11.80    99.00    99.00
 8 11 23 11    15.0 1   311.0     1.00    13.80    99.00    99.00
 8 11 23 12    15.0 1   324.0     1.00    15.60    99.00    99.00
 8 11 23 13    15.0 1   339.0     1.00    17.10    99.00    99.00
 8 11 23 14    15.0 1   346.0     1.50    18.10    99.00    99.00
 8 11 23 15    15.0 1   347.0     2.10    18.50    99.00    99.00
 8 11 23 16    15.0 1     8.0     2.60    18.00    99.00    99.00
 8 11 23 17    15.0 1    22.0     3.10    16.90    99.00    99.00
 8 11 23 18    15.0 1     7.0     2.60    15.60    99.00    99.00
 8 11 23 19    15.0 1   357.0     1.50    14.80    99.00    99.00
 8 11 23 20    15.0 1   339.0     1.00    13.90    99.00    99.00
 8 11 23 21    15.0 1   326.0     1.00    13.10    99.00    99.00
 8 11 23 22    15.0 1   335.0     0.50    12.40    99.00    99.00
 8 11 23 23    15.0 1   325.0     0.50    12.00    99.00    99.00
 8 11 23 24    15.0 1   331.0     1.00    11.60    99.00    99.00
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 8 11 24  1    15.0 1   335.0     1.50    11.40    99.00    99.00
 8 11 24  2    15.0 1   329.0     2.60    11.10    99.00    99.00
 8 11 24  3    15.0 1   340.0     3.60    10.90    99.00    99.00
 8 11 24  4    15.0 1     1.0     4.10    10.50    99.00    99.00
 8 11 24  5    15.0 1     0.0     0.00    10.10    99.00    99.00
 8 11 24  6    15.0 1    15.0     3.10     9.90    99.00    99.00
 8 11 24  7    15.0 1    21.0     2.60     9.90    99.00    99.00
 8 11 24  8    15.0 1    19.0     2.10     9.90    99.00    99.00
 8 11 24  9    15.0 1     7.0     1.50    10.40    99.00    99.00
 8 11 24 10    15.0 1   350.0     2.10    12.10    99.00    99.00
 8 11 24 11    15.0 1     1.0     2.60    14.00    99.00    99.00
 8 11 24 12    15.0 1     2.0     3.10    15.10    99.00    99.00
 8 11 24 13    15.0 1    14.0     3.10    15.90    99.00    99.00
 8 11 24 14    15.0 1     9.0     3.60    16.40    99.00    99.00
 8 11 24 15    15.0 1    23.0     4.10    16.80    99.00    99.00
 8 11 24 16    15.0 1    25.0     4.10    16.50    99.00    99.00
 8 11 24 17    15.0 1    18.0     4.10    15.60    99.00    99.00
 8 11 24 18    15.0 1    14.0     4.10    15.40    99.00    99.00
 8 11 24 19    15.0 1     0.0     0.00    15.10    99.00    99.00
 8 11 24 20    15.0 1    37.0     1.00    16.10    99.00    99.00
 8 11 24 21    15.0 1    45.0     0.50    15.90    99.00    99.00
 8 11 24 22    15.0 1     0.0     0.00    15.40    99.00    99.00
 8 11 24 23    15.0 1   347.0     4.10    13.60    99.00    99.00
 8 11 24 24    15.0 1   351.0     4.60    12.10    99.00    99.00
 8 11 25  1    15.0 1     6.0     4.10    11.60    99.00    99.00
 8 11 25  2    15.0 1    23.0     4.10    11.40    99.00    99.00
 8 11 25  3    15.0 1    24.0     4.10    11.10    99.00    99.00
 8 11 25  4    15.0 1    22.0     4.10    10.80    99.00    99.00
 8 11 25  5    15.0 1     7.0     4.10    11.00    99.00    99.00
 8 11 25  6    15.0 1     6.0     3.60    11.00    99.00    99.00
 8 11 25  7    15.0 1    13.0     3.10    11.00    99.00    99.00
 8 11 25  8    15.0 1     8.0     2.60    11.10    99.00    99.00
 8 11 25  9    15.0 1   353.0     2.60    11.30    99.00    99.00
 8 11 25 10    15.0 1   345.0     2.10    12.60    99.00    99.00
 8 11 25 11    15.0 1   341.0     2.10    13.60    99.00    99.00
 8 11 25 12    15.0 1   341.0     1.50    14.10    99.00    99.00
 8 11 25 13    15.0 1   348.0     1.50    14.10    99.00    99.00
 8 11 25 14    15.0 1     2.0     1.50    13.80    99.00    99.00
 8 11 25 15    15.0 1    15.0     2.10    13.30    99.00    99.00
 8 11 25 16    15.0 1    15.0     2.60    13.60    99.00    99.00
 8 11 25 17    15.0 1    14.0     2.60    13.30    99.00    99.00
 8 11 25 18    15.0 1     7.0     2.60    13.10    99.00    99.00
 8 11 25 19    15.0 1    11.0     2.10    13.00    99.00    99.00
 8 11 25 20    15.0 1    13.0     2.10    12.90    99.00    99.00
 8 11 25 21    15.0 1    11.0     2.10    12.90    99.00    99.00
 8 11 25 22    15.0 1    16.0     2.60    12.90    99.00    99.00
 8 11 25 23    15.0 1    16.0     2.60    13.00    99.00    99.00
 8 11 25 24    15.0 1    24.0     2.60    13.00    99.00    99.00
 8 11 26  1    15.0 1    19.0     2.60    13.10    99.00    99.00
 8 11 26  2    15.0 1    19.0     2.60    13.10    99.00    99.00
 8 11 26  3    15.0 1    24.0     2.60    13.10    99.00    99.00
 8 11 26  4    15.0 1    31.0     2.10    13.10    99.00    99.00
 8 11 26  5    15.0 1    39.0     2.10    13.10    99.00    99.00
 8 11 26  6    15.0 1    52.0     2.10    13.10    99.00    99.00
 8 11 26  7    15.0 1    43.0     1.00    13.10    99.00    99.00
 8 11 26  8    15.0 1   222.0     1.00    13.10    99.00    99.00
 8 11 26  9    15.0 1   196.0     3.10    13.30    99.00    99.00
 8 11 26 10    15.0 1   192.0     3.60    13.80    99.00    99.00
 8 11 26 11    15.0 1   195.0     5.10    15.60    99.00    99.00
 8 11 26 12    15.0 1   217.0     3.60    16.80    99.00    99.00
 8 11 26 13    15.0 1   228.0     3.10    17.40    99.00    99.00
 8 11 26 14    15.0 1   241.0     2.60    17.60    99.00    99.00
 8 11 26 15    15.0 1   248.0     1.50    17.90    99.00    99.00
 8 11 26 16    15.0 1   244.0     2.10    17.60    99.00    99.00
 8 11 26 17    15.0 1   228.0     3.60    16.80    99.00    99.00
 8 11 26 18    15.0 1   222.0     3.60    15.50    99.00    99.00
 8 11 26 19    15.0 1   225.0     3.10    14.60    99.00    99.00
 8 11 26 20    15.0 1   220.0     3.10    14.10    99.00    99.00
 8 11 26 21    15.0 1   212.0     2.60    13.80    99.00    99.00
 8 11 26 22    15.0 1   195.0     2.60    13.60    99.00    99.00
 8 11 26 23    15.0 1   168.0     2.60    13.80    99.00    99.00
 8 11 26 24    15.0 1   175.0     2.60    13.80    99.00    99.00
 8 11 27  1    15.0 1   174.0     2.10    13.60    99.00    99.00
 8 11 27  2    15.0 1   135.0     1.00    13.10    99.00    99.00
 8 11 27  3    15.0 1   139.0     2.10    12.60    99.00    99.00
 8 11 27  4    15.0 1   137.0     3.60    12.40    99.00    99.00
 8 11 27  5    15.0 1   114.0     3.60    11.90    99.00    99.00
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 8 11 27  6    15.0 1   122.0     3.60    11.80    99.00    99.00
 8 11 27  7    15.0 1    97.0     2.60    11.60    99.00    99.00
 8 11 27  8    15.0 1    10.0     2.60    11.10    99.00    99.00
 8 11 27  9    15.0 1   339.0     4.10    11.60    99.00    99.00
 8 11 27 10    15.0 1   351.0     4.60    12.80    99.00    99.00
 8 11 27 11    15.0 1   344.0     4.10    14.10    99.00    99.00
 8 11 27 12    15.0 1   331.0     3.10    15.00    99.00    99.00
 8 11 27 13    15.0 1   329.0     3.10    15.60    99.00    99.00
 8 11 27 14    15.0 1   327.0     2.60    16.00    99.00    99.00
 8 11 27 15    15.0 1   330.0     1.50    16.10    99.00    99.00
 8 11 27 16    15.0 1   349.0     1.00    16.10    99.00    99.00
 8 11 27 17    15.0 1   360.0     1.00    15.60    99.00    99.00
 8 11 27 18    15.0 1    15.0     0.50    14.80    99.00    99.00
 8 11 27 19    15.0 1     0.0     0.00    13.80    99.00    99.00
 8 11 27 20    15.0 1     0.0     0.00    12.90    99.00    99.00
 8 11 27 21    15.0 1     0.0     0.00    12.10    99.00    99.00
 8 11 27 22    15.0 1     0.0     0.00    11.50    99.00    99.00
 8 11 27 23    15.0 1     0.0     0.00    10.90    99.00    99.00
 8 11 27 24    15.0 1    96.0     0.50    10.30    99.00    99.00
 8 11 28  1    15.0 1   110.0     1.00     9.60    99.00    99.00
 8 11 28  2    15.0 1   132.0     1.00     9.10    99.00    99.00
 8 11 28  3    15.0 1     0.0     0.00     8.40    99.00    99.00
 8 11 28  4    15.0 1   316.0     0.50     7.50    99.00    99.00
 8 11 28  5    15.0 1   328.0     0.50     7.10    99.00    99.00
 8 11 28  6    15.0 1   345.0     0.50     7.10    99.00    99.00
 8 11 28  7    15.0 1   330.0     0.50     7.60    99.00    99.00
 8 11 28  8    15.0 1   274.0     0.50     8.00    99.00    99.00
 8 11 28  9    15.0 1   263.0     1.00     8.00    99.00    99.00
 8 11 28 10    15.0 1   273.0     1.50     8.10    99.00    99.00
 8 11 28 11    15.0 1   268.0     1.00     8.50    99.00    99.00
 8 11 28 12    15.0 1   324.0     0.50    10.10    99.00    99.00
 8 11 28 13    15.0 1   342.0     1.50    11.90    99.00    99.00
 8 11 28 14    15.0 1   347.0     2.60    12.80    99.00    99.00
 8 11 28 15    15.0 1     0.0     0.00    12.90    99.00    99.00
 8 11 28 16    15.0 1    23.0     3.60    12.10    99.00    99.00
 8 11 28 17    15.0 1    33.0     3.60    10.50    99.00    99.00
 8 11 28 18    15.0 1    36.0     2.60     9.30    99.00    99.00
 8 11 28 19    15.0 1    49.0     1.50     8.60    99.00    99.00
 8 11 28 20    15.0 1    57.0     0.50     8.10    99.00    99.00
 8 11 28 21    15.0 1    91.0     0.50     8.00    99.00    99.00
 8 11 28 22    15.0 1     0.0     0.00     7.80    99.00    99.00
 8 11 28 23    15.0 1     0.0     0.00     7.60    99.00    99.00
 8 11 28 24    15.0 1     0.0     0.00     7.50    99.00    99.00
 8 11 29  1    15.0 1     0.0     0.00     7.30    99.00    99.00
 8 11 29  2    15.0 1     0.0     0.00     7.10    99.00    99.00
 8 11 29  3    15.0 1     0.0     0.00     6.80    99.00    99.00
 8 11 29  4    15.0 1     0.0     0.00     6.60    99.00    99.00
 8 11 29  5    15.0 1   338.0     0.50     6.60    99.00    99.00
 8 11 29  6    15.0 1   327.0     1.00     6.60    99.00    99.00
 8 11 29  7    15.0 1   331.0     1.00     6.80    99.00    99.00
 8 11 29  8    15.0 1   334.0     1.00     6.80    99.00    99.00
 8 11 29  9    15.0 1   316.0     0.50     6.80    99.00    99.00
 8 11 29 10    15.0 1   328.0     0.50     7.00    99.00    99.00
 8 11 29 11    15.0 1   346.0     0.50     8.50    99.00    99.00
 8 11 29 12    15.0 1     0.0     0.00    11.40    99.00    99.00
 8 11 29 13    15.0 1   348.0     1.00    13.50    99.00    99.00
 8 11 29 14    15.0 1   352.0     1.50    14.90    99.00    99.00
 8 11 29 15    15.0 1   348.0     2.60    15.40    99.00    99.00
 8 11 29 16    15.0 1     6.0     2.60    15.10    99.00    99.00
 8 11 29 17    15.0 1    24.0     3.10    14.00    99.00    99.00
 8 11 29 18    15.0 1    26.0     1.50    13.00    99.00    99.00
 8 11 29 19    15.0 1     0.0     0.00    12.10    99.00    99.00
 8 11 29 20    15.0 1     0.0     0.00    11.10    99.00    99.00
 8 11 29 21    15.0 1    71.0     0.50    10.60    99.00    99.00
 8 11 29 22    15.0 1    74.0     1.00    10.10    99.00    99.00
 8 11 29 23    15.0 1    70.0     1.00     9.60    99.00    99.00
 8 11 29 24    15.0 1   104.0     0.50     9.30    99.00    99.00
 8 11 30  1    15.0 1     0.0     0.00     9.00    99.00    99.00
 8 11 30  2    15.0 1     0.0     0.00     8.60    99.00    99.00
 8 11 30  3    15.0 1    42.0     0.50     8.40    99.00    99.00
 8 11 30  4    15.0 1    14.0     1.00     8.10    99.00    99.00
 8 11 30  5    15.0 1   351.0     1.00     7.80    99.00    99.00
 8 11 30  6    15.0 1   319.0     0.50     7.60    99.00    99.00
 8 11 30  7    15.0 1   315.0     0.50     7.50    99.00    99.00
 8 11 30  8    15.0 1   330.0     0.50     7.50    99.00    99.00
 8 11 30  9    15.0 1     0.0     0.00     9.00    99.00    99.00
 8 11 30 10    15.0 1   344.0     1.00    12.10    99.00    99.00
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 8 11 30 11    15.0 1   355.0     1.00    14.10    99.00    99.00
 8 11 30 12    15.0 1   352.0     1.00    15.80    99.00    99.00
 8 11 30 13    15.0 1   343.0     1.00    17.10    99.00    99.00
 8 11 30 14    15.0 1   355.0     1.50    18.10    99.00    99.00
 8 11 30 15    15.0 1   346.0     1.50    18.50    99.00    99.00
 8 11 30 16    15.0 1   350.0     1.00    19.90    99.00    99.00
 8 11 30 17    15.0 1     0.0     0.00    19.10    99.00    99.00
 8 11 30 18    15.0 1     0.0     0.00    17.80    99.00    99.00
 8 11 30 19    15.0 1     0.0     0.00    16.50    99.00    99.00
 8 11 30 20    15.0 1     0.0     0.00    15.40    99.00    99.00
 8 11 30 21    15.0 1     0.0     0.00    14.50    99.00    99.00
 8 11 30 22    15.0 1    59.0     0.50    13.60    99.00    99.00
 8 11 30 23    15.0 1    61.0     1.00    13.10    99.00    99.00
 8 11 30 24    15.0 1    64.0     0.50    12.60    99.00    99.00
 8 12  1  1    15.0 1     0.0     0.00    12.30    99.00    99.00
 8 12  1  2    15.0 1     0.0     0.00    11.80    99.00    99.00
 8 12  1  3    15.0 1     0.0     0.00    11.40    99.00    99.00
 8 12  1  4    15.0 1     0.0     0.00    11.10    99.00    99.00
 8 12  1  5    15.0 1     1.0     0.50    11.00    99.00    99.00
 8 12  1  6    15.0 1   347.0     1.00    10.60    99.00    99.00
 8 12  1  7    15.0 1   325.0     1.00    10.10    99.00    99.00
 8 12  1  8    15.0 1   321.0     1.00    10.00    99.00    99.00
 8 12  1  9    15.0 1   328.0     1.50    11.80    99.00    99.00
 8 12  1 10    15.0 1   321.0     1.50    14.10    99.00    99.00
 8 12  1 11    15.0 1   325.0     1.00    15.90    99.00    99.00
 8 12  1 12    15.0 1   324.0     0.50    17.40    99.00    99.00
 8 12  1 13    15.0 1   318.0     0.50    18.60    99.00    99.00
 8 12  1 14    15.0 1   324.0     0.50    19.90    99.00    99.00
 8 12  1 15    15.0 1   324.0     1.00    20.30    99.00    99.00
 8 12  1 16    15.0 1   332.0     1.00    20.10    99.00    99.00
 8 12  1 17    15.0 1   329.0     1.00    19.00    99.00    99.00
 8 12  1 18    15.0 1   339.0     0.50    17.60    99.00    99.00
 8 12  1 19    15.0 1     0.0     0.00    16.30    99.00    99.00
 8 12  1 20    15.0 1     0.0     0.00    15.10    99.00    99.00
 8 12  1 21    15.0 1     0.0     0.00    14.10    99.00    99.00
 8 12  1 22    15.0 1     0.0     0.00    13.50    99.00    99.00
 8 12  1 23    15.0 1     0.0     0.00    13.00    99.00    99.00
 8 12  1 24    15.0 1     0.0     0.00    12.40    99.00    99.00
 8 12  2  1    15.0 1   113.0     0.50    11.90    99.00    99.00
 8 12  2  2    15.0 1     0.0     0.00    11.30    99.00    99.00
 8 12  2  3    15.0 1   313.0     1.50    10.10    99.00    99.00
 8 12  2  4    15.0 1   334.0     2.60     9.30    99.00    99.00
 8 12  2  5    15.0 1   347.0     2.60     9.10    99.00    99.00
 8 12  2  6    15.0 1   360.0     2.60     9.10    99.00    99.00
 8 12  2  7    15.0 1   360.0     2.10     9.00    99.00    99.00
 8 12  2  8    15.0 1   354.0     2.60     9.10    99.00    99.00
 8 12  2  9    15.0 1   338.0     2.60     9.30    99.00    99.00
 8 12  2 10    15.0 1   338.0     2.60     9.30    99.00    99.00
 8 12  2 11    15.0 1   339.0     2.10     9.10    99.00    99.00
 8 12  2 12    15.0 1   337.0     1.50     9.50    99.00    99.00
 8 12  2 13    15.0 1   336.0     1.00    10.10    99.00    99.00
 8 12  2 14    15.0 1   327.0     1.50    10.50    99.00    99.00
 8 12  2 15    15.0 1   321.0     1.50    10.60    99.00    99.00
 8 12  2 16    15.0 1   286.0     1.00    10.90    99.00    99.00
 8 12  2 17    15.0 1   199.0     0.50    10.90    99.00    99.00
 8 12  2 18    15.0 1   193.0     1.00    11.00    99.00    99.00
 8 12  2 19    15.0 1   190.0     1.50    11.00    99.00    99.00
 8 12  2 20    15.0 1   184.0     2.10    11.10    99.00    99.00
 8 12  2 21    15.0 1   168.0     2.10    11.10    99.00    99.00
 8 12  2 22    15.0 1   173.0     1.00    11.10    99.00    99.00
 8 12  2 23    15.0 1   162.0     0.50    11.00    99.00    99.00
 8 12  2 24    15.0 1   205.0     0.50    10.90    99.00    99.00
 8 12  3  1    15.0 1   329.0     0.50    10.80    99.00    99.00
 8 12  3  2    15.0 1     0.0     0.00    10.60    99.00    99.00
 8 12  3  3    15.0 1   248.0     0.50    10.60    99.00    99.00
 8 12  3  4    15.0 1   296.0     0.50    10.40    99.00    99.00
 8 12  3  5    15.0 1   319.0     0.50    10.10    99.00    99.00
 8 12  3  6    15.0 1   298.0     0.50    10.10    99.00    99.00
 8 12  3  7    15.0 1   310.0     1.50     9.90    99.00    99.00
 8 12  3  8    15.0 1   307.0     1.50     9.60    99.00    99.00
 8 12  3  9    15.0 1   304.0     2.10     9.30    99.00    99.00
 8 12  3 10    15.0 1   311.0     2.10     9.00    99.00    99.00
 8 12  3 11    15.0 1   350.0     1.50     9.40    99.00    99.00
 8 12  3 12    15.0 1    23.0     1.50    10.50    99.00    99.00
 8 12  3 13    15.0 1    22.0     1.50    11.60    99.00    99.00
 8 12  3 14    15.0 1     2.0     1.50    12.50    99.00    99.00
 8 12  3 15    15.0 1   357.0     2.10    12.60    99.00    99.00
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 8 12  3 16    15.0 1     7.0     2.10    12.10    99.00    99.00
 8 12  3 17    15.0 1     0.0     0.00    11.30    99.00    99.00
 8 12  3 18    15.0 1   357.0     1.00    10.60    99.00    99.00
 8 12  3 19    15.0 1     0.0     0.00    10.10    99.00    99.00
 8 12  3 20    15.0 1     0.0     0.00     9.80    99.00    99.00
 8 12  3 21    15.0 1     0.0     0.00     9.50    99.00    99.00
 8 12  3 22    15.0 1   339.0     0.50     9.10    99.00    99.00
 8 12  3 23    15.0 1     7.0     1.00     8.60    99.00    99.00
 8 12  3 24    15.0 1    18.0     1.50     8.10    99.00    99.00
 8 12  4  1    15.0 1     8.0     1.00     7.90    99.00    99.00
 8 12  4  2    15.0 1   353.0     1.00     7.60    99.00    99.00
 8 12  4  3    15.0 1   344.0     1.50     7.60    99.00    99.00
 8 12  4  4    15.0 1   341.0     1.50     7.60    99.00    99.00
 8 12  4  5    15.0 1   338.0     2.10     7.50    99.00    99.00
 8 12  4  6    15.0 1   333.0     1.50     7.50    99.00    99.00
 8 12  4  7    15.0 1   312.0     1.00     7.60    99.00    99.00
 8 12  4  8    15.0 1   295.0     1.00     7.60    99.00    99.00
 8 12  4  9    15.0 1   312.0     2.10     8.30    99.00    99.00
 8 12  4 10    15.0 1   327.0     1.50     9.30    99.00    99.00
 8 12  4 11    15.0 1   323.0     1.00    10.30    99.00    99.00
 8 12  4 12    15.0 1   332.0     0.50    11.10    99.00    99.00
 8 12  4 13    15.0 1     0.0     0.00    12.40    99.00    99.00
 8 12  4 14    15.0 1   300.0     0.50    13.60    99.00    99.00
 8 12  4 15    15.0 1   324.0     0.50    14.00    99.00    99.00
 8 12  4 16    15.0 1     0.0     0.00    14.10    99.00    99.00
 8 12  4 17    15.0 1    18.0     1.00    13.40    99.00    99.00
 8 12  4 18    15.0 1     7.0     0.50    12.40    99.00    99.00
 8 12  4 19    15.0 1     0.0     0.00    11.10    99.00    99.00
 8 12  4 20    15.0 1     0.0     0.00    10.10    99.00    99.00
 8 12  4 21    15.0 1     0.0     0.00     9.30    99.00    99.00
 8 12  4 22    15.0 1     0.0     0.00     8.60    99.00    99.00
 8 12  4 23    15.0 1    36.0     0.50     8.10    99.00    99.00
 8 12  4 24    15.0 1    50.0     0.50     7.60    99.00    99.00
 8 12  5  1    15.0 1    60.0     0.50     7.30    99.00    99.00
 8 12  5  2    15.0 1    64.0     1.00     6.90    99.00    99.00
 8 12  5  3    15.0 1    48.0     1.00     6.60    99.00    99.00
 8 12  5  4    15.0 1    38.0     1.50     6.10    99.00    99.00
 8 12  5  5    15.0 1    24.0     1.00     5.90    99.00    99.00
 8 12  5  6    15.0 1     8.0     1.50     5.50    99.00    99.00
 8 12  5  7    15.0 1    14.0     1.50     5.10    99.00    99.00
 8 12  5  8    15.0 1     6.0     1.50     5.00    99.00    99.00
 8 12  5  9    15.0 1   354.0     1.50     6.80    99.00    99.00
 8 12  5 10    15.0 1   326.0     2.60     9.30    99.00    99.00
 8 12  5 11    15.0 1   332.0     2.10    11.10    99.00    99.00
 8 12  5 12    15.0 1   354.0     2.60    13.10    99.00    99.00
 8 12  5 13    15.0 1   351.0     3.10    14.40    99.00    99.00
 8 12  5 14    15.0 1     3.0     3.10    15.30    99.00    99.00
 8 12  5 15    15.0 1     8.0     3.60    15.60    99.00    99.00
 8 12  5 16    15.0 1    18.0     3.10    15.60    99.00    99.00
 8 12  5 17    15.0 1    28.0     3.60    14.60    99.00    99.00
 8 12  5 18    15.0 1    51.0     2.60    13.80    99.00    99.00
 8 12  5 19    15.0 1    52.0     1.50    12.80    99.00    99.00
 8 12  5 20    15.0 1    34.0     0.50    11.80    99.00    99.00
 8 12  5 21    15.0 1    29.0     0.50    11.00    99.00    99.00
 8 12  5 22    15.0 1    43.0     0.50    10.10    99.00    99.00
 8 12  5 23    15.0 1    32.0     0.50     9.60    99.00    99.00
 8 12  5 24    15.0 1     6.0     0.50     9.10    99.00    99.00
 8 12  6  1    15.0 1   356.0     1.00     8.60    99.00    99.00
 8 12  6  2    15.0 1   340.0     0.50     8.10    99.00    99.00
 8 12  6  3    15.0 1   320.0     0.50     7.60    99.00    99.00
 8 12  6  4    15.0 1   326.0     1.00     7.30    99.00    99.00
 8 12  6  5    15.0 1   354.0     1.00     7.00    99.00    99.00
 8 12  6  6    15.0 1   360.0     1.00     6.60    99.00    99.00
 8 12  6  7    15.0 1     5.0     1.00     6.40    99.00    99.00
 8 12  6  8    15.0 1   350.0     0.50     6.30    99.00    99.00
 8 12  6  9    15.0 1   334.0     0.50     7.40    99.00    99.00
 8 12  6 10    15.0 1   307.0     2.10    10.30    99.00    99.00
 8 12  6 11    15.0 1   324.0     2.10    12.00    99.00    99.00
 8 12  6 12    15.0 1   326.0     2.60    13.90    99.00    99.00
 8 12  6 13    15.0 1   339.0     2.60    15.10    99.00    99.00
 8 12  6 14    15.0 1   344.0     2.60    16.00    99.00    99.00
 8 12  6 15    15.0 1   354.0     2.60    16.30    99.00    99.00
 8 12  6 16    15.0 1     2.0     2.10    16.00    99.00    99.00
 8 12  6 17    15.0 1     0.0     0.00    15.00    99.00    99.00
 8 12  6 18    15.0 1   351.0     1.00    13.80    99.00    99.00
 8 12  6 19    15.0 1   288.0     0.50    12.60    99.00    99.00
 8 12  6 20    15.0 1     0.0     0.00    11.50    99.00    99.00
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 8 12  6 21    15.0 1     0.0     0.00    10.50    99.00    99.00
 8 12  6 22    15.0 1     0.0     0.00     9.60    99.00    99.00
 8 12  6 23    15.0 1     0.0     0.00     9.00    99.00    99.00
 8 12  6 24    15.0 1    57.0     0.50     8.40    99.00    99.00
 8 12  7  1    15.0 1     0.0     0.00     7.90    99.00    99.00
 8 12  7  2    15.0 1     0.0     0.00     7.50    99.00    99.00
 8 12  7  3    15.0 1     0.0     0.00     7.10    99.00    99.00
 8 12  7  4    15.0 1     0.0     0.00     6.80    99.00    99.00
 8 12  7  5    15.0 1     0.0     0.00     6.50    99.00    99.00
 8 12  7  6    15.0 1     0.0     0.00     6.10    99.00    99.00
 8 12  7  7    15.0 1     0.0     0.00     6.00    99.00    99.00
 8 12  7  8    15.0 1     0.0     0.00     5.80    99.00    99.00
 8 12  7  9    15.0 1     0.0     0.00     7.00    99.00    99.00
 8 12  7 10    15.0 1     0.0     0.00    10.30    99.00    99.00
 8 12  7 11    15.0 1   299.0     0.50    12.10    99.00    99.00
 8 12  7 12    15.0 1   306.0     1.00    13.60    99.00    99.00
 8 12  7 13    15.0 1   316.0     1.50    14.80    99.00    99.00
 8 12  7 14    15.0 1   315.0     1.50    15.30    99.00    99.00
 8 12  7 15    15.0 1   306.0     1.50    15.50    99.00    99.00
 8 12  7 16    15.0 1   317.0     1.00    15.30    99.00    99.00
 8 12  7 17    15.0 1    46.0     0.50    14.60    99.00    99.00
 8 12  7 18    15.0 1    96.0     0.50    13.80    99.00    99.00
 8 12  7 19    15.0 1   125.0     1.00    12.60    99.00    99.00
 8 12  7 20    15.0 1   112.0     0.50    11.50    99.00    99.00
 8 12  7 21    15.0 1    92.0     0.50    10.50    99.00    99.00
 8 12  7 22    15.0 1   110.0     0.50     9.60    99.00    99.00
 8 12  7 23    15.0 1   118.0     1.00     8.80    99.00    99.00
 8 12  7 24    15.0 1   123.0     1.00     8.30    99.00    99.00
 8 12  8  1    15.0 1   103.0     0.50     7.90    99.00    99.00
 8 12  8  2    15.0 1   312.0     0.50     7.30    99.00    99.00
 8 12  8  3    15.0 1   312.0     0.50     6.90    99.00    99.00
 8 12  8  4    15.0 1   301.0     1.00     6.60    99.00    99.00
 8 12  8  5    15.0 1   294.0     1.00     6.60    99.00    99.00
 8 12  8  6    15.0 1   287.0     0.50     6.60    99.00    99.00
 8 12  8  7    15.0 1     0.0     0.00     6.80    99.00    99.00
 8 12  8  8    15.0 1     0.0     0.00     6.60    99.00    99.00
 8 12  8  9    15.0 1     0.0     0.00     7.60    99.00    99.00
 8 12  8 10    15.0 1     0.0     0.00     9.80    99.00    99.00
 8 12  8 11    15.0 1     0.0     0.00    11.60    99.00    99.00
 8 12  8 12    15.0 1   319.0     1.00    12.60    99.00    99.00
 8 12  8 13    15.0 1   321.0     2.10    13.40    99.00    99.00
 8 12  8 14    15.0 1   325.0     2.60    14.00    99.00    99.00
 8 12  8 15    15.0 1   335.0     3.60    14.30    99.00    99.00
 8 12  8 16    15.0 1   333.0     2.60    14.10    99.00    99.00
 8 12  8 17    15.0 1   332.0     2.10    13.60    99.00    99.00
 8 12  8 18    15.0 1   324.0     1.00    12.60    99.00    99.00
 8 12  8 19    15.0 1   324.0     0.50    11.90    99.00    99.00
 8 12  8 20    15.0 1     0.0     0.00    11.00    99.00    99.00
 8 12  8 21    15.0 1   151.0     1.00    10.00    99.00    99.00
 8 12  8 22    15.0 1   155.0     2.10     9.30    99.00    99.00
 8 12  8 23    15.0 1   147.0     2.60     8.80    99.00    99.00
 8 12  8 24    15.0 1   157.0     2.60     8.40    99.00    99.00
 8 12  9  1    15.0 1   194.0     2.10     8.10    99.00    99.00
 8 12  9  2    15.0 1   235.0     2.10     7.60    99.00    99.00
 8 12  9  3    15.0 1   258.0     2.60     7.40    99.00    99.00
 8 12  9  4    15.0 1   267.0     3.60     6.80    99.00    99.00
 8 12  9  5    15.0 1   295.0     4.10     6.10    99.00    99.00
 8 12  9  6    15.0 1   293.0     3.60     5.60    99.00    99.00
 8 12  9  7    15.0 1   292.0     2.60     5.10    99.00    99.00
 8 12  9  8    15.0 1   303.0     2.60     5.00    99.00    99.00
 8 12  9  9    15.0 1   312.0     2.60     6.40    99.00    99.00
 8 12  9 10    15.0 1   306.0     2.10     8.10    99.00    99.00
 8 12  9 11    15.0 1   313.0     1.50    10.10    99.00    99.00
 8 12  9 12    15.0 1   306.0     1.00    11.80    99.00    99.00
 8 12  9 13    15.0 1   316.0     1.50    12.90    99.00    99.00
 8 12  9 14    15.0 1   340.0     2.10    13.60    99.00    99.00
 8 12  9 15    15.0 1     5.0     2.10    13.90    99.00    99.00
 8 12  9 16    15.0 1    31.0     2.10    13.60    99.00    99.00
 8 12  9 17    15.0 1    48.0     2.60    12.60    99.00    99.00
 8 12  9 18    15.0 1    61.0     2.10    11.60    99.00    99.00
 8 12  9 19    15.0 1    48.0     1.50    10.50    99.00    99.00
 8 12  9 20    15.0 1    17.0     1.00     9.50    99.00    99.00
 8 12  9 21    15.0 1    10.0     1.00     8.60    99.00    99.00
 8 12  9 22    15.0 1    36.0     0.50     8.00    99.00    99.00
 8 12  9 23    15.0 1   184.0     0.50     7.30    99.00    99.00
 8 12  9 24    15.0 1     0.0     0.00     6.60    99.00    99.00
 8 12 10  1    15.0 1     0.0     0.00     6.10    99.00    99.00
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 8 12 10  2    15.0 1  248.0    0.50    5.60    99.00    99.00
 8 12 10  3    15.0 1  270.0    0.50    5.40    99.00    99.00
 8 12 10  4    15.0 1  312.0    1.00    5.10    99.00    99.00
 8 12 10  5    15.0 1  345.0    1.00    4.90    99.00    99.00
 8 12 10  6    15.0 1  350.0    1.00    4.60    99.00    99.00
 8 12 10  7    15.0 1  333.0    0.50    4.30    99.00    99.00
 8 12 10  8    15.0 1  302.0    0.50    4.10    99.00    99.00
 8 12 10  9    15.0 1  309.0    1.00    5.60    99.00    99.00
 8 12 10 10    15.0 1  311.0    1.50    7.80    99.00    99.00
 8 12 10 11    15.0 1  320.0    1.00    9.60    99.00    99.00
 8 12 10 12    15.0 1  340.0    1.00   11.10    99.00    99.00
 8 12 10 13    15.0 1  338.0    1.00   12.60    99.00    99.00
 8 12 10 14    15.0 1  341.0    1.00   13.60    99.00    99.00
 8 12 10 15    15.0 1  346.0    1.00   14.10    99.00    99.00
 8 12 10 16    15.0 1    2.0    1.50   14.40    99.00    99.00
 8 12 10 17    15.0 1    7.0    1.50   13.50    99.00    99.00
 8 12 10 18    15.0 1   24.0    1.50   12.30    99.00    99.00
 8 12 10 19    15.0 1   23.0    1.00   11.10    99.00    99.00
 8 12 10 20    15.0 1   24.0    0.50    9.90    99.00    99.00
 8 12 10 21    15.0 1    0.0    0.00    9.00    99.00    99.00
 8 12 10 22    15.0 1    0.0    0.00    8.30    99.00    99.00
 8 12 10 23    15.0 1    0.0    0.00    7.60    99.00    99.00
 8 12 10 24    15.0 1    0.0    0.00    7.10    99.00    99.00
 8 12 11  1    15.0 1    0.0    0.00    6.60    99.00    99.00
 8 12 11  2    15.0 1    0.0    0.00    6.40    99.00    99.00
 8 12 11  3    15.0 1    0.0    0.00    6.10    99.00    99.00
 8 12 11  4    15.0 1    0.0    0.00    5.80    99.00    99.00
 8 12 11  5    15.0 1    0.0    0.00    5.50    99.00    99.00
 8 12 11  6    15.0 1    0.0    0.00    5.30    99.00    99.00
 8 12 11  7    15.0 1    0.0    0.00    5.10    99.00    99.00
 8 12 11  8    15.0 1    0.0    0.00    4.80    99.00    99.00
 8 12 11  9    15.0 1    0.0    0.00    5.00    99.00    99.00
 8 12 11 10    15.0 1    0.0    0.00    7.90    99.00    99.00
 8 12 11 11    15.0 1  311.0    0.50   10.10    99.00    99.00
 8 12 11 12    15.0 1  319.0    0.50   11.60    99.00    99.00
 8 12 11 13    15.0 1  328.0    1.00   12.50    99.00    99.00
 8 12 11 14    15.0 1  335.0    1.00   13.00    99.00    99.00
 8 12 11 15    15.0 1  335.0    0.50   13.00    99.00    99.00
 8 12 11 16    15.0 1    0.0    0.00   12.60    99.00    99.00
 8 12 11 17    15.0 1    0.0    0.00   11.60    99.00    99.00
 8 12 11 18    15.0 1    0.0    0.00   10.90    99.00    99.00
 8 12 11 19    15.0 1    0.0    0.00   10.10    99.00    99.00
 8 12 11 20    15.0 1    0.0    0.00    9.60    99.00    99.00
 8 12 11 21    15.0 1    0.0    0.00    9.30    99.00    99.00
 8 12 11 22    15.0 1   35.0    0.50    9.00    99.00    99.00
 8 12 11 23    15.0 1   18.0    0.50    8.60    99.00    99.00
 8 12 11 24    15.0 1    7.0    0.50    8.40    99.00    99.00
 8 12 12  1    15.0 1    0.0    0.00    8.10    99.00    99.00
 8 12 12  2    15.0 1    0.0    0.00    7.90    99.00    99.00
 8 12 12  3    15.0 1  316.0    0.50    7.60    99.00    99.00
 8 12 12  4    15.0 1  337.0    1.00    7.60    99.00    99.00
 8 12 12  5    15.0 1  340.0    1.00    7.40    99.00    99.00
 8 12 12  6    15.0 1  329.0    1.00    7.10    99.00    99.00
 8 12 12  7    15.0 1  316.0    1.00    6.60    99.00    99.00
 8 12 12  8    15.0 1  310.0    0.50    6.30    99.00    99.00
 8 12 12  9    15.0 1  307.0    1.00    7.30    99.00    99.00
 8 12 12 10    15.0 1  306.0    1.00    9.40    99.00    99.00
 8 12 12 11    15.0 1  319.0    0.50   11.00    99.00    99.00
 8 12 12 12    15.0 1  309.0    0.50   12.60    99.00    99.00
 8 12 12 13    15.0 1  300.0    0.50   13.60    99.00    99.00
 8 12 12 14    15.0 1  305.0    1.00   14.30    99.00    99.00
 8 12 12 15    15.0 1  312.0    1.00   14.60    99.00    99.00
 8 12 12 16    15.0 1  319.0    0.50   14.40    99.00    99.00
 8 12 12 17    15.0 1    0.0    0.00   13.50    99.00    99.00
 8 12 12 18    15.0 1    0.0    0.00   12.10    99.00    99.00
 8 12 12 19    15.0 1    0.0    0.00   11.00    99.00    99.00
 8 12 12 20    15.0 1  110.0    0.50   10.00    99.00    99.00
 8 12 12 21    15.0 1   99.0    0.50    9.10    99.00    99.00
 8 12 12 22    15.0 1  125.0    1.00    8.40    99.00    99.00
 8 12 12 23    15.0 1    0.0    0.00    7.60    99.00    99.00
 8 12 12 24    15.0 1  335.0    0.50    7.30    99.00    99.00
 8 12 13  1    15.0 1  309.0    1.50    7.00    99.00    99.00
 8 12 13  2    15.0 1  309.0    3.10    6.80    99.00    99.00
 8 12 13  3    15.0 1  308.0    3.60    6.60    99.00    99.00
 8 12 13  4    15.0 1  317.0    3.10    6.50    99.00    99.00
 8 12 13  5    15.0 1  324.0    2.10    6.10    99.00    99.00
 8 12 13  6    15.0 1   18.0    0.50    6.00    99.00    99.00
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 8 12 13  7    15.0 1   125.0     0.50     6.00    99.00    99.00
 8 12 13  8    15.0 1   162.0     0.50     6.00    99.00    99.00
 8 12 13  9    15.0 1   138.0     1.00     6.10    99.00    99.00
 8 12 13 10    15.0 1   134.0     0.50     6.60    99.00    99.00
 8 12 13 11    15.0 1   334.0     3.60     8.50    99.00    99.00
 8 12 13 12    15.0 1   337.0     5.10    10.10    99.00    99.00
 8 12 13 13    15.0 1   345.0     5.10    10.80    99.00    99.00
 8 12 13 14    15.0 1   345.0     5.10    10.90    99.00    99.00
 8 12 13 15    15.0 1   344.0     5.70    10.80    99.00    99.00
 8 12 13 16    15.0 1   345.0     3.60    10.40    99.00    99.00
 8 12 13 17    15.0 1   341.0     3.10     9.50    99.00    99.00
 8 12 13 18    15.0 1   335.0     2.60     8.90    99.00    99.00
 8 12 13 19    15.0 1   359.0     1.50     8.50    99.00    99.00
 8 12 13 20    15.0 1    39.0     0.50     8.10    99.00    99.00
 8 12 13 21    15.0 1    29.0     0.50     7.90    99.00    99.00
 8 12 13 22    15.0 1    19.0     1.00     7.60    99.00    99.00
 8 12 13 23    15.0 1    33.0     1.50     7.10    99.00    99.00
 8 12 13 24    15.0 1    50.0     4.10     6.00    99.00    99.00
 8 12 14  1    15.0 1    65.0     5.10     5.50    99.00    99.00
 8 12 14  2    15.0 1    69.0     3.10     5.40    99.00    99.00
 8 12 14  3    15.0 1   129.0     0.50     5.50    99.00    99.00
 8 12 14  4    15.0 1   240.0     1.50     5.50    99.00    99.00
 8 12 14  5    15.0 1   240.0     1.50     5.10    99.00    99.00
 8 12 14  6    15.0 1   225.0     1.00     4.80    99.00    99.00
 8 12 14  7    15.0 1   176.0     0.50     4.30    99.00    99.00
 8 12 14  8    15.0 1   125.0     0.50     4.00    99.00    99.00
 8 12 14  9    15.0 1   143.0     1.50     5.00    99.00    99.00
 8 12 14 10    15.0 1   147.0     1.50     6.80    99.00    99.00
 8 12 14 11    15.0 1   137.0     1.50     7.60    99.00    99.00
 8 12 14 12    15.0 1   138.0     1.50     8.40    99.00    99.00
 8 12 14 13    15.0 1   141.0     1.50     9.10    99.00    99.00
 8 12 14 14    15.0 1   136.0     2.10     9.50    99.00    99.00
 8 12 14 15    15.0 1   126.0     2.10     9.60    99.00    99.00
 8 12 14 16    15.0 1   118.0     2.10     9.60    99.00    99.00
 8 12 14 17    15.0 1   100.0     1.50     9.40    99.00    99.00
 8 12 14 18    15.0 1   106.0     1.50     9.10    99.00    99.00
 8 12 14 19    15.0 1   123.0     1.00     9.00    99.00    99.00
 8 12 14 20    15.0 1   118.0     0.50     8.80    99.00    99.00
 8 12 14 21    15.0 1   165.0     0.50     8.10    99.00    99.00
 8 12 14 22    15.0 1   124.0     1.00     7.50    99.00    99.00
 8 12 14 23    15.0 1   110.0     2.10     7.10    99.00    99.00
 8 12 14 24    15.0 1   119.0     3.10     7.10    99.00    99.00
 8 12 15  1    15.0 1   129.0     4.60     7.00    99.00    99.00
 8 12 15  2    15.0 1   138.0     5.10     7.00    99.00    99.00
 8 12 15  3    15.0 1   129.0     5.70     7.10    99.00    99.00
 8 12 15  4    15.0 1   133.0     6.20     7.10    99.00    99.00
 8 12 15  5    15.0 1   135.0     6.20     7.30    99.00    99.00
 8 12 15  6    15.0 1   134.0     5.10     7.50    99.00    99.00
 8 12 15  7    15.0 1   129.0     5.10     7.60    99.00    99.00
 8 12 15  8    15.0 1   128.0     5.10     8.00    99.00    99.00
 8 12 15  9    15.0 1   133.0     4.60     8.60    99.00    99.00
 8 12 15 10    15.0 1   134.0     4.10    10.00    99.00    99.00
 8 12 15 11    15.0 1   217.0     0.50    12.30    99.00    99.00
 8 12 15 12    15.0 1   285.0     4.10    13.60    99.00    99.00
 8 12 15 13    15.0 1   266.0     6.20    14.40    99.00    99.00
 8 12 15 14    15.0 1   256.0     6.20    15.10    99.00    99.00
 8 12 15 15    15.0 1   263.0     4.10    14.90    99.00    99.00
 8 12 15 16    15.0 1   283.0     4.10    13.40    99.00    99.00
 8 12 15 17    15.0 1   272.0     5.10    11.90    99.00    99.00
 8 12 15 18    15.0 1   259.0     5.10    10.30    99.00    99.00
 8 12 15 19    15.0 1   253.0     4.60     9.00    99.00    99.00
 8 12 15 20    15.0 1   236.0     4.10     8.10    99.00    99.00
 8 12 15 21    15.0 1   242.0     3.60     7.80    99.00    99.00
 8 12 15 22    15.0 1   228.0     2.60     7.30    99.00    99.00
 8 12 15 23    15.0 1   201.0     1.00     6.60    99.00    99.00
 8 12 15 24    15.0 1   295.0     1.00     6.60    99.00    99.00
 8 12 16  1    15.0 1   340.0     1.00     6.40    99.00    99.00
 8 12 16  2    15.0 1   235.0     0.50     6.10    99.00    99.00
 8 12 16  3    15.0 1   223.0     1.00     6.00    99.00    99.00
 8 12 16  4    15.0 1   226.0     1.50     5.60    99.00    99.00
 8 12 16  5    15.0 1   238.0     2.10     5.50    99.00    99.00
 8 12 16  6    15.0 1   246.0     2.60     5.10    99.00    99.00
 8 12 16  7    15.0 1   257.0     2.60     4.80    99.00    99.00
 8 12 16  8    15.0 1   259.0     2.60     4.60    99.00    99.00
 8 12 16  9    15.0 1   277.0     2.10     5.30    99.00    99.00
 8 12 16 10    15.0 1   284.0     1.50     6.50    99.00    99.00
 8 12 16 11    15.0 1   290.0     0.50     7.90    99.00    99.00
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 8 12 16 12    15.0 1   286.0     0.50     8.90    99.00    99.00
 8 12 16 13    15.0 1   293.0     0.50     9.50    99.00    99.00
 8 12 16 14    15.0 1   298.0     1.00     9.90    99.00    99.00
 8 12 16 15    15.0 1   313.0     1.50    10.10    99.00    99.00
 8 12 16 16    15.0 1   309.0     2.10    10.00    99.00    99.00
 8 12 16 17    15.0 1   304.0     2.10     9.50    99.00    99.00
 8 12 16 18    15.0 1   304.0     1.50     8.90    99.00    99.00
 8 12 16 19    15.0 1   303.0     1.50     8.50    99.00    99.00
 8 12 16 20    15.0 1   268.0     0.50     8.00    99.00    99.00
 8 12 16 21    15.0 1   159.0     0.50     7.50    99.00    99.00
 8 12 16 22    15.0 1   290.0     0.50     7.30    99.00    99.00
 8 12 16 23    15.0 1   269.0     2.10     7.30    99.00    99.00
 8 12 16 24    15.0 1   267.0     2.60     7.00    99.00    99.00
 8 12 17  1    15.0 1   270.0     2.60     6.50    99.00    99.00
 8 12 17  2    15.0 1   320.0     1.00     6.10    99.00    99.00
 8 12 17  3    15.0 1   346.0     4.10     4.60    99.00    99.00
 8 12 17  4    15.0 1   337.0     4.10     3.10    99.00    99.00
 8 12 17  5    15.0 1   320.0     3.60     2.00    99.00    99.00
 8 12 17  6    15.0 1   307.0     3.60     1.40    99.00    99.00
 8 12 17  7    15.0 1   295.0     3.10     1.00    99.00    99.00
 8 12 17  8    15.0 1   281.0     3.10     0.90    99.00    99.00
 8 12 17  9    15.0 1   306.0     4.10     2.50    99.00    99.00
 8 12 17 10    15.0 1   304.0     3.10     3.90    99.00    99.00
 8 12 17 11    15.0 1   299.0     3.10     5.60    99.00    99.00
 8 12 17 12    15.0 1   301.0     4.10     6.80    99.00    99.00
 8 12 17 13    15.0 1   315.0     4.60     7.60    99.00    99.00
 8 12 17 14    15.0 1   324.0     5.10     8.00    99.00    99.00
 8 12 17 15    15.0 1   320.0     4.60     8.30    99.00    99.00
 8 12 17 16    15.0 1   311.0     2.60     8.00    99.00    99.00
 8 12 17 17    15.0 1   309.0     2.60     7.60    99.00    99.00
 8 12 17 18    15.0 1   293.0     2.10     7.30    99.00    99.00
 8 12 17 19    15.0 1   259.0     2.10     6.90    99.00    99.00
 8 12 17 20    15.0 1   254.0     2.10     6.40    99.00    99.00
 8 12 17 21    15.0 1   236.0     1.50     5.60    99.00    99.00
 8 12 17 22    15.0 1   238.0     1.50     4.90    99.00    99.00
 8 12 17 23    15.0 1   264.0     1.50     4.10    99.00    99.00
 8 12 17 24    15.0 1   277.0     2.10     3.30    99.00    99.00
 8 12 18  1    15.0 1   276.0     3.10     2.60    99.00    99.00
 8 12 18  2    15.0 1   280.0     3.10     1.60    99.00    99.00
 8 12 18  3    15.0 1   280.0     3.10     1.00    99.00    99.00
 8 12 18  4    15.0 1   277.0     3.10     0.40    99.00    99.00
 8 12 18  5    15.0 1   280.0     2.60    -0.10    99.00    99.00
 8 12 18  6    15.0 1   281.0     2.60    -0.50    99.00    99.00
 8 12 18  7    15.0 1   270.0     2.10    -0.90    99.00    99.00
 8 12 18  8    15.0 1   275.0     2.10    -1.10    99.00    99.00
 8 12 18  9    15.0 1   298.0     1.50    -0.10    99.00    99.00
 8 12 18 10    15.0 1     0.0     0.00     1.10    99.00    99.00
 8 12 18 11    15.0 1     0.0     0.00     2.80    99.00    99.00
 8 12 18 12    15.0 1   260.0     0.50     3.90    99.00    99.00
 8 12 18 13    15.0 1   272.0     0.50     5.00    99.00    99.00
 8 12 18 14    15.0 1     0.0     0.00     5.90    99.00    99.00
 8 12 18 15    15.0 1     0.0     0.00     6.30    99.00    99.00
 8 12 18 16    15.0 1    29.0     0.50     6.30    99.00    99.00
 8 12 18 17    15.0 1    61.0     0.50     5.60    99.00    99.00
 8 12 18 18    15.0 1    89.0     0.50     4.80    99.00    99.00
 8 12 18 19    15.0 1   146.0     0.50     3.80    99.00    99.00
 8 12 18 20    15.0 1   175.0     1.00     2.90    99.00    99.00
 8 12 18 21    15.0 1   157.0     1.00     2.10    99.00    99.00
 8 12 18 22    15.0 1   140.0     1.50     1.60    99.00    99.00
 8 12 18 23    15.0 1   132.0     1.50     1.10    99.00    99.00
 8 12 18 24    15.0 1   120.0     1.50     0.60    99.00    99.00
 8 12 19  1    15.0 1   124.0     1.50     0.30    99.00    99.00
 8 12 19  2    15.0 1   122.0     2.10     0.10    99.00    99.00
 8 12 19  3    15.0 1   131.0     2.10     0.00    99.00    99.00
 8 12 19  4    15.0 1   126.0     2.60    -0.10    99.00    99.00
 8 12 19  5    15.0 1   127.0     2.60     0.10    99.00    99.00
 8 12 19  6    15.0 1   131.0     3.10     0.50    99.00    99.00
 8 12 19  7    15.0 1   126.0     3.10     1.10    99.00    99.00
 8 12 19  8    15.0 1   131.0     3.60     1.60    99.00    99.00
 8 12 19  9    15.0 1   136.0     3.60     2.50    99.00    99.00
 8 12 19 10    15.0 1   138.0     3.60     3.60    99.00    99.00
 8 12 19 11    15.0 1   136.0     4.10     5.30    99.00    99.00
 8 12 19 12    15.0 1   143.0     3.60     6.10    99.00    99.00
 8 12 19 13    15.0 1   149.0     2.60     6.90    99.00    99.00
 8 12 19 14    15.0 1   142.0     2.10     7.30    99.00    99.00
 8 12 19 15    15.0 1   138.0     1.50     7.40    99.00    99.00
 8 12 19 16    15.0 1   130.0     2.10     7.10    99.00    99.00
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 8 12 19 17    15.0 1   122.0     1.50     7.00    99.00    99.00
 8 12 19 18    15.0 1   112.0     1.00     6.60    99.00    99.00
 8 12 19 19    15.0 1    91.0     0.50     6.40    99.00    99.00
 8 12 19 20    15.0 1    89.0     1.00     6.10    99.00    99.00
 8 12 19 21    15.0 1    88.0     1.00     5.50    99.00    99.00
 8 12 19 22    15.0 1    80.0     1.00     4.60    99.00    99.00
 8 12 19 23    15.0 1    65.0     1.00     3.80    99.00    99.00
 8 12 19 24    15.0 1    10.0     1.00     3.10    99.00    99.00
 8 12 20  1    15.0 1   342.0     1.50     2.50    99.00    99.00
 8 12 20  2    15.0 1   318.0     1.00     2.00    99.00    99.00
 8 12 20  3    15.0 1   228.0     0.50     1.60    99.00    99.00
 8 12 20  4    15.0 1   216.0     1.00     1.30    99.00    99.00
 8 12 20  5    15.0 1   222.0     1.50     1.00    99.00    99.00
 8 12 20  6    15.0 1   224.0     1.50     1.50    99.00    99.00
 8 12 20  7    15.0 1   208.0     1.00     2.00    99.00    99.00
 8 12 20  8    15.0 1   140.0     0.50     2.10    99.00    99.00
 8 12 20  9    15.0 1   120.0     1.00     2.50    99.00    99.00
 8 12 20 10    15.0 1   124.0     0.50     3.30    99.00    99.00
 8 12 20 11    15.0 1     0.0     0.00     4.40    99.00    99.00
 8 12 20 12    15.0 1     0.0     0.00     5.30    99.00    99.00
 8 12 20 13    15.0 1   333.0     0.50     5.50    99.00    99.00
 8 12 20 14    15.0 1   305.0     1.00     6.00    99.00    99.00
 8 12 20 15    15.0 1   311.0     1.50     6.40    99.00    99.00
 8 12 20 16    15.0 1   342.0     1.00     6.60    99.00    99.00
 8 12 20 17    15.0 1    49.0     0.50     6.30    99.00    99.00
 8 12 20 18    15.0 1    94.0     0.50     5.50    99.00    99.00
 8 12 20 19    15.0 1   144.0     1.00     4.90    99.00    99.00
 8 12 20 20    15.0 1   150.0     1.50     4.50    99.00    99.00
 8 12 20 21    15.0 1   151.0     1.50     4.40    99.00    99.00
 8 12 20 22    15.0 1   136.0     1.00     4.40    99.00    99.00
 8 12 20 23    15.0 1   107.0     0.50     4.30    99.00    99.00
 8 12 20 24    15.0 1   104.0     0.50     4.10    99.00    99.00
 8 12 21  1    15.0 1    99.0     0.50     4.10    99.00    99.00
 8 12 21  2    15.0 1    83.0     0.50     4.10    99.00    99.00
 8 12 21  3    15.0 1     0.0     0.00     3.90    99.00    99.00
 8 12 21  4    15.0 1     0.0     0.00     3.50    99.00    99.00
 8 12 21  5    15.0 1     0.0     0.00     2.90    99.00    99.00
 8 12 21  6    15.0 1     0.0     0.00     2.40    99.00    99.00
 8 12 21  7    15.0 1   115.0     0.50     2.00    99.00    99.00
 8 12 21  8    15.0 1   100.0     0.50     1.60    99.00    99.00
 8 12 21  9    15.0 1   102.0     0.50     1.60    99.00    99.00
 8 12 21 10    15.0 1     0.0     0.00     2.80    99.00    99.00
 8 12 21 11    15.0 1     0.0     0.00     6.40    99.00    99.00
 8 12 21 12    15.0 1     0.0     0.00     7.90    99.00    99.00
 8 12 21 13    15.0 1     0.0     0.00     8.60    99.00    99.00
 8 12 21 14    15.0 1    14.0     0.50     9.00    99.00    99.00
 8 12 21 15    15.0 1    20.0     1.00     9.10    99.00    99.00
 8 12 21 16    15.0 1    34.0     1.00     8.90    99.00    99.00
 8 12 21 17    15.0 1    45.0     1.00     8.50    99.00    99.00
 8 12 21 18    15.0 1     0.0     0.00     8.10    99.00    99.00
 8 12 21 19    15.0 1     0.0     0.00     8.00    99.00    99.00
 8 12 21 20    15.0 1     0.0     0.00     7.80    99.00    99.00
 8 12 21 21    15.0 1     0.0     0.00     7.60    99.00    99.00
 8 12 21 22    15.0 1    97.0     1.00     7.60    99.00    99.00
 8 12 21 23    15.0 1    87.0     1.00     7.60    99.00    99.00
 8 12 21 24    15.0 1    98.0     1.50     7.60    99.00    99.00
 8 12 22  1    15.0 1   119.0     1.00     7.80    99.00    99.00
 8 12 22  2    15.0 1   140.0     1.00     7.80    99.00    99.00
 8 12 22  3    15.0 1   179.0     1.00     7.80    99.00    99.00
 8 12 22  4    15.0 1   110.0     0.50     7.60    99.00    99.00
 8 12 22  5    15.0 1    57.0     1.50     7.10    99.00    99.00
 8 12 22  6    15.0 1    81.0     1.50     7.10    99.00    99.00
 8 12 22  7    15.0 1    69.0     1.00     7.60    99.00    99.00
 8 12 22  8    15.0 1    37.0     1.00     8.00    99.00    99.00
 8 12 22  9    15.0 1     0.0     0.00     8.40    99.00    99.00
 8 12 22 10    15.0 1   310.0     4.10    11.00    99.00    99.00
 8 12 22 11    15.0 1   312.0     4.60    12.10    99.00    99.00
 8 12 22 12    15.0 1   315.0     3.60    12.80    99.00    99.00
 8 12 22 13    15.0 1   309.0     3.10    13.10    99.00    99.00
 8 12 22 14    15.0 1   296.0     3.10    13.30    99.00    99.00
 8 12 22 15    15.0 1   300.0     3.10    13.10    99.00    99.00
 8 12 22 16    15.0 1   288.0     2.60    13.10    99.00    99.00
 8 12 22 17    15.0 1   278.0     3.60    12.50    99.00    99.00
 8 12 22 18    15.0 1   284.0     4.60    11.50    99.00    99.00
 8 12 22 19    15.0 1   266.0     5.70     9.30    99.00    99.00
 8 12 22 20    15.0 1   279.0     5.70     8.40    99.00    99.00
 8 12 22 21    15.0 1   276.0     5.10     7.80    99.00    99.00
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 8 12 22 22    15.0 1   277.0     5.10     7.30    99.00    99.00
 8 12 22 23    15.0 1   288.0     5.10     6.60    99.00    99.00
 8 12 22 24    15.0 1   299.0     4.10     6.10    99.00    99.00
 8 12 23  1    15.0 1   312.0     3.60     5.80    99.00    99.00
 8 12 23  2    15.0 1   301.0     3.10     5.60    99.00    99.00
 8 12 23  3    15.0 1   290.0     3.10     5.60    99.00    99.00
 8 12 23  4    15.0 1   294.0     3.60     5.80    99.00    99.00
 8 12 23  5    15.0 1   295.0     3.60     5.90    99.00    99.00
 8 12 23  6    15.0 1   282.0     3.60     5.90    99.00    99.00
 8 12 23  7    15.0 1   277.0     3.10     5.90    99.00    99.00
 8 12 23  8    15.0 1   292.0     3.10     5.90    99.00    99.00
 8 12 23  9    15.0 1   288.0     2.60     6.40    99.00    99.00
 8 12 23 10    15.0 1   294.0     1.50     7.10    99.00    99.00
 8 12 23 11    15.0 1   278.0     0.50     8.10    99.00    99.00
 8 12 23 12    15.0 1   263.0     1.00     8.60    99.00    99.00
 8 12 23 13    15.0 1   247.0     1.50     8.80    99.00    99.00
 8 12 23 14    15.0 1   247.0     1.50     8.90    99.00    99.00
 8 12 23 15    15.0 1   255.0     1.00     9.10    99.00    99.00
 8 12 23 16    15.0 1   264.0     1.00     9.10    99.00    99.00
 8 12 23 17    15.0 1   269.0     0.50     8.60    99.00    99.00
 8 12 23 18    15.0 1     0.0     0.00     7.90    99.00    99.00
 8 12 23 19    15.0 1     0.0     0.00     7.30    99.00    99.00
 8 12 23 20    15.0 1   157.0     1.00     6.90    99.00    99.00
 8 12 23 21    15.0 1   150.0     2.10     6.90    99.00    99.00
 8 12 23 22    15.0 1   145.0     2.60     6.90    99.00    99.00
 8 12 23 23    15.0 1   141.0     2.60     6.80    99.00    99.00
 8 12 23 24    15.0 1   153.0     2.60     6.90    99.00    99.00
 8 12 24  1    15.0 1   170.0     2.60     7.00    99.00    99.00
 8 12 24  2    15.0 1   187.0     2.60     7.10    99.00    99.00
 8 12 24  3    15.0 1   170.0     2.60     7.10    99.00    99.00
 8 12 24  4    15.0 1   130.0     4.10     7.10    99.00    99.00
 8 12 24  5    15.0 1   119.0     5.70     7.10    99.00    99.00
 8 12 24  6    15.0 1   121.0     6.20     7.30    99.00    99.00
 8 12 24  7    15.0 1   119.0     6.70     7.50    99.00    99.00
 8 12 24  8    15.0 1   117.0     7.20     7.60    99.00    99.00
 8 12 24  9    15.0 1   125.0     7.70     8.10    99.00    99.00
 8 12 24 10    15.0 1   119.0     8.20     8.80    99.00    99.00
 8 12 24 11    15.0 1   116.0     8.20     9.80    99.00    99.00
 8 12 24 12    15.0 1   124.0     7.70    11.00    99.00    99.00
 8 12 24 13    15.0 1   120.0     7.20    11.50    99.00    99.00
 8 12 24 14    15.0 1   119.0     7.20    11.80    99.00    99.00
 8 12 24 15    15.0 1   120.0     6.70    11.60    99.00    99.00
 8 12 24 16    15.0 1   123.0     6.70    11.10    99.00    99.00
 8 12 24 17    15.0 1   122.0     6.70    10.60    99.00    99.00
 8 12 24 18    15.0 1   135.0     7.20    10.40    99.00    99.00
 8 12 24 19    15.0 1   134.0     7.20    10.40    99.00    99.00
 8 12 24 20    15.0 1   131.0     7.70    10.40    99.00    99.00
 8 12 24 21    15.0 1   127.0     7.20    10.50    99.00    99.00
 8 12 24 22    15.0 1   127.0     7.70    10.60    99.00    99.00
 8 12 24 23    15.0 1   127.0     6.70    10.80    99.00    99.00
 8 12 24 24    15.0 1   130.0     6.20    10.90    99.00    99.00
 8 12 25  1    15.0 1   136.0     5.10    11.00    99.00    99.00
 8 12 25  2    15.0 1   139.0     5.10    11.10    99.00    99.00
 8 12 25  3    15.0 1   137.0     4.60    11.30    99.00    99.00
 8 12 25  4    15.0 1   128.0     4.10    11.50    99.00    99.00
 8 12 25  5    15.0 1   129.0     4.10    11.50    99.00    99.00
 8 12 25  6    15.0 1   122.0     4.10    11.40    99.00    99.00
 8 12 25  7    15.0 1   117.0     4.10    11.30    99.00    99.00
 8 12 25  8    15.0 1   123.0     3.60    11.30    99.00    99.00
 8 12 25  9    15.0 1   168.0     1.00    11.60    99.00    99.00
 8 12 25 10    15.0 1   264.0     8.70    14.30    99.00    99.00
 8 12 25 11    15.0 1   267.0    10.80    15.30    99.00    99.00
 8 12 25 12    15.0 1   278.0     9.80    15.50    99.00    99.00
 8 12 25 13    15.0 1   279.0     8.70    15.30    99.00    99.00
 8 12 25 14    15.0 1   277.0     7.70    14.90    99.00    99.00
 8 12 25 15    15.0 1   273.0     5.70    14.60    99.00    99.00
 8 12 25 16    15.0 1   258.0     6.20    13.10    99.00    99.00
 8 12 25 17    15.0 1   268.0     6.20    11.50    99.00    99.00
 8 12 25 18    15.0 1   282.0     6.20    10.40    99.00    99.00
 8 12 25 19    15.0 1   282.0     6.20     9.30    99.00    99.00
 8 12 25 20    15.0 1   292.0     6.20     8.10    99.00    99.00
 8 12 25 21    15.0 1   305.0     5.10     7.30    99.00    99.00
 8 12 25 22    15.0 1   315.0     4.10     7.00    99.00    99.00
 8 12 25 23    15.0 1   323.0     3.60     6.60    99.00    99.00
 8 12 25 24    15.0 1   319.0     3.10     6.10    99.00    99.00
 8 12 26  1    15.0 1   320.0     3.10     5.90    99.00    99.00
 8 12 26  2    15.0 1   322.0     3.60     5.40    99.00    99.00
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 8 12 26  3    15.0 1   324.0     4.10     4.60    99.00    99.00
 8 12 26  4    15.0 1   325.0     4.10     3.90    99.00    99.00
 8 12 26  5    15.0 1   321.0     3.60     3.10    99.00    99.00
 8 12 26  6    15.0 1   325.0     3.10     2.60    99.00    99.00
 8 12 26  7    15.0 1   336.0     2.10     2.30    99.00    99.00
 8 12 26  8    15.0 1    31.0     1.00     2.00    99.00    99.00
 8 12 26  9    15.0 1    14.0     2.10     3.50    99.00    99.00
 8 12 26 10    15.0 1    12.0     2.10     5.00    99.00    99.00
 8 12 26 11    15.0 1     1.0     1.50     6.10    99.00    99.00
 8 12 26 12    15.0 1   338.0     1.00     7.10    99.00    99.00
 8 12 26 13    15.0 1   353.0     1.00     7.80    99.00    99.00
 8 12 26 14    15.0 1     2.0     2.10     8.30    99.00    99.00
 8 12 26 15    15.0 1     2.0     2.60     8.40    99.00    99.00
 8 12 26 16    15.0 1     0.0     0.00     8.10    99.00    99.00
 8 12 26 17    15.0 1     6.0     1.50     7.60    99.00    99.00
 8 12 26 18    15.0 1    41.0     0.50     6.90    99.00    99.00
 8 12 26 19    15.0 1   101.0     0.50     5.80    99.00    99.00
 8 12 26 20    15.0 1   120.0     1.00     4.60    99.00    99.00
 8 12 26 21    15.0 1   138.0     2.10     4.00    99.00    99.00
 8 12 26 22    15.0 1   140.0     2.10     3.60    99.00    99.00
 8 12 26 23    15.0 1   127.0     2.10     3.30    99.00    99.00
 8 12 26 24    15.0 1   130.0     1.50     3.00    99.00    99.00
 8 12 27  1    15.0 1   142.0     1.50     2.60    99.00    99.00
 8 12 27  2    15.0 1   165.0     1.00     2.10    99.00    99.00
 8 12 27  3    15.0 1   208.0     1.00     1.60    99.00    99.00
 8 12 27  4    15.0 1   258.0     1.50     1.10    99.00    99.00
 8 12 27  5    15.0 1   284.0     2.10     0.80    99.00    99.00
 8 12 27  6    15.0 1   276.0     1.50     0.50    99.00    99.00
 8 12 27  7    15.0 1   293.0     1.00     0.10    99.00    99.00
 8 12 27  8    15.0 1   286.0     1.00     0.00    99.00    99.00
 8 12 27  9    15.0 1   323.0     1.00     1.30    99.00    99.00
 8 12 27 10    15.0 1   314.0     0.50     3.00    99.00    99.00
 8 12 27 11    15.0 1   312.0     0.50     4.80    99.00    99.00
 8 12 27 12    15.0 1   306.0     0.50     6.30    99.00    99.00
 8 12 27 13    15.0 1   326.0     0.50     7.30    99.00    99.00
 8 12 27 14    15.0 1   352.0     1.00     8.00    99.00    99.00
 8 12 27 15    15.0 1   356.0     2.10     8.30    99.00    99.00
 8 12 27 16    15.0 1     0.0     0.00     8.10    99.00    99.00
 8 12 27 17    15.0 1   355.0     1.50     7.50    99.00    99.00
 8 12 27 18    15.0 1   331.0     1.00     6.60    99.00    99.00
 8 12 27 19    15.0 1     0.0     0.00     5.80    99.00    99.00
 8 12 27 20    15.0 1     0.0     0.00     5.00    99.00    99.00
 8 12 27 21    15.0 1     0.0     0.00     4.10    99.00    99.00
 8 12 27 22    15.0 1     0.0     0.00     3.50    99.00    99.00
 8 12 27 23    15.0 1     0.0     0.00     3.10    99.00    99.00
 8 12 27 24    15.0 1    68.0     0.50     2.50    99.00    99.00
 8 12 28  1    15.0 1     0.0     0.00     2.10    99.00    99.00
 8 12 28  2    15.0 1     0.0     0.00     1.60    99.00    99.00
 8 12 28  3    15.0 1     0.0     0.00     1.30    99.00    99.00
 8 12 28  4    15.0 1     0.0     0.00     1.00    99.00    99.00
 8 12 28  5    15.0 1     0.0     0.00     0.60    99.00    99.00
 8 12 28  6    15.0 1     0.0     0.00     0.40    99.00    99.00
 8 12 28  7    15.0 1     0.0     0.00     0.10    99.00    99.00
 8 12 28  8    15.0 1     0.0     0.00     0.10    99.00    99.00
 8 12 28  9    15.0 1     0.0     0.00     1.60    99.00    99.00
 8 12 28 10    15.0 1     0.0     0.00     4.90    99.00    99.00
 8 12 28 11    15.0 1     0.0     0.00     6.80    99.00    99.00
 8 12 28 12    15.0 1     0.0     0.00     8.50    99.00    99.00
 8 12 28 13    15.0 1   306.0     0.50     9.80    99.00    99.00
 8 12 28 14    15.0 1   307.0     0.50    10.60    99.00    99.00
 8 12 28 15    15.0 1   324.0     0.50    11.00    99.00    99.00
 8 12 28 16    15.0 1   346.0     0.50    10.80    99.00    99.00
 8 12 28 17    15.0 1    28.0     0.50    10.00    99.00    99.00
 8 12 28 18    15.0 1     0.0     0.00     9.10    99.00    99.00
 8 12 28 19    15.0 1     0.0     0.00     8.10    99.00    99.00
 8 12 28 20    15.0 1     0.0     0.00     7.40    99.00    99.00
 8 12 28 21    15.0 1     0.0     0.00     6.80    99.00    99.00
 8 12 28 22    15.0 1    71.0     0.50     6.30    99.00    99.00
 8 12 28 23    15.0 1    76.0     0.50     5.90    99.00    99.00
 8 12 28 24    15.0 1     0.0     0.00     5.50    99.00    99.00
 8 12 29  1    15.0 1     0.0     0.00     5.00    99.00    99.00
 8 12 29  2    15.0 1     0.0     0.00     4.60    99.00    99.00
 8 12 29  3    15.0 1     0.0     0.00     4.10    99.00    99.00
 8 12 29  4    15.0 1     0.0     0.00     3.80    99.00    99.00
 8 12 29  5    15.0 1     0.0     0.00     3.50    99.00    99.00
 8 12 29  6    15.0 1    87.0     0.50     3.10    99.00    99.00
 8 12 29  7    15.0 1    76.0     0.50     2.90    99.00    99.00
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 8 12 29  8    15.0 1    79.0     0.50     2.60    99.00    99.00
 8 12 29  9    15.0 1     0.0     0.00     3.90    99.00    99.00
 8 12 29 10    15.0 1     0.0     0.00     7.40    99.00    99.00
 8 12 29 11    15.0 1     0.0     0.00     9.90    99.00    99.00
 8 12 29 12    15.0 1   306.0     0.50    11.50    99.00    99.00
 8 12 29 13    15.0 1   318.0     1.50    12.60    99.00    99.00
 8 12 29 14    15.0 1   335.0     2.10    13.00    99.00    99.00
 8 12 29 15    15.0 1   341.0     2.60    12.80    99.00    99.00
 8 12 29 16    15.0 1     2.0     2.10    12.00    99.00    99.00
 8 12 29 17    15.0 1    21.0     1.50    10.90    99.00    99.00
 8 12 29 18    15.0 1    48.0     0.50    10.00    99.00    99.00
 8 12 29 19    15.0 1     0.0     0.00     9.10    99.00    99.00
 8 12 29 20    15.0 1     0.0     0.00     8.40    99.00    99.00
 8 12 29 21    15.0 1     0.0     0.00     7.80    99.00    99.00
 8 12 29 22    15.0 1     0.0     0.00     7.30    99.00    99.00
 8 12 29 23    15.0 1     0.0     0.00     6.90    99.00    99.00
 8 12 29 24    15.0 1     0.0     0.00     6.40    99.00    99.00
 8 12 30  1    15.0 1     0.0     0.00     6.10    99.00    99.00
 8 12 30  2    15.0 1     0.0     0.00     5.80    99.00    99.00
 8 12 30  3    15.0 1   105.0     0.50     5.50    99.00    99.00
 8 12 30  4    15.0 1     0.0     0.00     5.30    99.00    99.00
 8 12 30  5    15.0 1   318.0     0.50     5.10    99.00    99.00
 8 12 30  6    15.0 1   324.0     1.00     5.10    99.00    99.00
 8 12 30  7    15.0 1   343.0     1.00     5.10    99.00    99.00
 8 12 30  8    15.0 1   334.0     0.50     5.60    99.00    99.00
 8 12 30  9    15.0 1     0.0     0.00     5.90    99.00    99.00
 8 12 30 10    15.0 1   109.0     0.50     6.10    99.00    99.00
 8 12 30 11    15.0 1     0.0     0.00     6.50    99.00    99.00
 8 12 30 12    15.0 1   330.0     0.50     6.60    99.00    99.00
 8 12 30 13    15.0 1   333.0     0.50     6.80    99.00    99.00
 8 12 30 14    15.0 1   341.0     1.00     7.00    99.00    99.00
 8 12 30 15    15.0 1    15.0     1.00     7.10    99.00    99.00
 8 12 30 16    15.0 1   354.0     1.00    14.90    99.00    99.00
 8 12 30 17    15.0 1     0.0     0.00    14.10    99.00    99.00
 8 12 30 18    15.0 1     0.0     0.00    13.10    99.00    99.00
 8 12 30 19    15.0 1     0.0     0.00    12.00    99.00    99.00
 8 12 30 20    15.0 1     0.0     0.00    11.10    99.00    99.00
 8 12 30 21    15.0 1   269.0     0.50    10.30    99.00    99.00
 8 12 30 22    15.0 1   302.0     1.50     9.80    99.00    99.00
 8 12 30 23    15.0 1   314.0     2.10     9.50    99.00    99.00
 8 12 30 24    15.0 1   318.0     2.60     9.00    99.00    99.00
 8 12 31  1    15.0 1   325.0     1.50     8.50    99.00    99.00
 8 12 31  2    15.0 1   302.0     1.00     8.00    99.00    99.00
 8 12 31  3    15.0 1   277.0     1.00     7.60    99.00    99.00
 8 12 31  4    15.0 1   273.0     0.50     7.10    99.00    99.00
 8 12 31  5    15.0 1   300.0     0.50     6.90    99.00    99.00
 8 12 31  6    15.0 1     0.0     0.00     6.40    99.00    99.00
 8 12 31  7    15.0 1     0.0     0.00     5.90    99.00    99.00
 8 12 31  8    15.0 1     0.0     0.00     5.50    99.00    99.00
 8 12 31  9    15.0 1   327.0     0.50     6.60    99.00    99.00
 8 12 31 10    15.0 1   322.0     1.00     8.50    99.00    99.00
 8 12 31 11    15.0 1   312.0     0.50    10.10    99.00    99.00
 8 12 31 12    15.0 1   299.0     1.00    11.90    99.00    99.00
 8 12 31 13    15.0 1   314.0     1.50    12.90    99.00    99.00
 8 12 31 14    15.0 1   310.0     1.50    13.50    99.00    99.00
 8 12 31 15    15.0 1   318.0     2.10    13.60    99.00    99.00
 8 12 31 16    15.0 1   333.0     1.00    13.60    99.00    99.00
 8 12 31 17    15.0 1     0.0     0.00    12.90    99.00    99.00
 8 12 31 18    15.0 1     0.0     0.00    11.80    99.00    99.00
 8 12 31 19    15.0 1     0.0     0.00    10.60    99.00    99.00
 8 12 31 20    15.0 1     0.0     0.00     9.50    99.00    99.00
 8 12 31 21    15.0 1   128.0     0.50     8.60    99.00    99.00
 8 12 31 22    15.0 1   111.0     0.50     7.80    99.00    99.00
 8 12 31 23    15.0 1   111.0     0.50     7.10    99.00    99.00
 8 12 31 24    15.0 1     0.0     0.00     6.50    99.00    99.00
 9  1  1  1    15.0 1     0.0     0.00     6.60    99.00    99.00
 9  1  1  2    15.0 1   308.0     0.50     6.40    99.00    99.00
 9  1  1  3    15.0 1   314.0     1.00     6.00    99.00    99.00
 9  1  1  4    15.0 1   313.0     1.00     5.60    99.00    99.00
 9  1  1  5    15.0 1   303.0     1.00     5.40    99.00    99.00
 9  1  1  6    15.0 1   292.0     1.00     5.00    99.00    99.00
 9  1  1  7    15.0 1   295.0     0.50     4.60    99.00    99.00
 9  1  1  8    15.0 1   263.0     0.50     4.30    99.00    99.00
 9  1  1  9    15.0 1   307.0     0.50     4.90    99.00    99.00
 9  1  1 10    15.0 1     0.0     0.00     6.90    99.00    99.00
 9  1  1 11    15.0 1     0.0     0.00     9.10    99.00    99.00
 9  1  1 12    15.0 1   326.0     0.50    11.00    99.00    99.00
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 9  1  1 13    15.0 1   323.0     1.00    12.10    99.00    99.00
 9  1  1 14    15.0 1   329.0     1.00    13.00    99.00    99.00
 9  1  1 15    15.0 1   342.0     1.50    13.30    99.00    99.00
 9  1  1 16    15.0 1     4.0     1.50    13.10    99.00    99.00
 9  1  1 17    15.0 1    11.0     1.50    12.10    99.00    99.00
 9  1  1 18    15.0 1   347.0     0.50    11.10    99.00    99.00
 9  1  1 19    15.0 1     0.0     0.00     9.90    99.00    99.00
 9  1  1 20    15.0 1   167.0     0.50     9.10    99.00    99.00
 9  1  1 21    15.0 1   100.0     0.50     8.30    99.00    99.00
 9  1  1 22    15.0 1    92.0     0.50     7.50    99.00    99.00
 9  1  1 23    15.0 1    90.0     0.50     6.90    99.00    99.00
 9  1  1 24    15.0 1   100.0     0.50     6.40    99.00    99.00
 9  1  2  1    15.0 1    96.0     0.50     6.00    99.00    99.00
 9  1  2  2    15.0 1   102.0     0.50     5.60    99.00    99.00
 9  1  2  3    15.0 1     0.0     0.00     5.60    99.00    99.00
 9  1  2  4    15.0 1     0.0     0.00     5.60    99.00    99.00
 9  1  2  5    15.0 1   106.0     0.50     5.50    99.00    99.00
 9  1  2  6    15.0 1    97.0     0.50     5.40    99.00    99.00
 9  1  2  7    15.0 1    99.0     1.00     5.10    99.00    99.00
 9  1  2  8    15.0 1   106.0     1.00     5.10    99.00    99.00
 9  1  2  9    15.0 1   120.0     0.50     6.50    99.00    99.00
 9  1  2 10    15.0 1     0.0     0.00    10.00    99.00    99.00
 9  1  2 11    15.0 1     0.0     0.00    12.10    99.00    99.00
 9  1  2 12    15.0 1     0.0     0.00    14.00    99.00    99.00
 9  1  2 13    15.0 1     0.0     0.00    15.10    99.00    99.00
 9  1  2 14    15.0 1     0.0     0.00    15.90    99.00    99.00
 9  1  2 15    15.0 1   320.0     1.00    16.10    99.00    99.00
 9  1  2 16    15.0 1   344.0     2.10    15.60    99.00    99.00
 9  1  2 17    15.0 1   348.0     3.10    13.90    99.00    99.00
 9  1  2 18    15.0 1    31.0     2.10    12.90    99.00    99.00
 9  1  2 19    15.0 1    72.0     1.00    12.50    99.00    99.00
 9  1  2 20    15.0 1    95.0     0.50    12.00    99.00    99.00
 9  1  2 21    15.0 1   244.0     0.50    11.60    99.00    99.00
 9  1  2 22    15.0 1   305.0     1.50    11.50    99.00    99.00
 9  1  2 23    15.0 1   317.0     2.10    11.10    99.00    99.00
 9  1  2 24    15.0 1   318.0     3.60    10.10    99.00    99.00
 9  1  3  1    15.0 1   310.0     4.10     9.50    99.00    99.00
 9  1  3  2    15.0 1   316.0     4.60     9.60    99.00    99.00
 9  1  3  3    15.0 1   334.0     6.20     9.30    99.00    99.00
 9  1  3  4    15.0 1   340.0     5.10     8.60    99.00    99.00
 9  1  3  5    15.0 1   337.0     4.10     8.10    99.00    99.00
 9  1  3  6    15.0 1   329.0     3.60     7.40    99.00    99.00
 9  1  3  7    15.0 1   316.0     3.60     6.60    99.00    99.00
 9  1  3  8    15.0 1   309.0     3.60     5.90    99.00    99.00
 9  1  3  9    15.0 1   328.0     5.10     6.30    99.00    99.00
 9  1  3 10    15.0 1   334.0     4.10     7.10    99.00    99.00
 9  1  3 11    15.0 1   332.0     3.60     7.90    99.00    99.00
 9  1  3 12    15.0 1   318.0     2.10     8.60    99.00    99.00
 9  1  3 13    15.0 1   311.0     2.60     9.40    99.00    99.00
 9  1  3 14    15.0 1   312.0     3.10    10.00    99.00    99.00
 9  1  3 15    15.0 1   317.0     3.10    10.30    99.00    99.00
 9  1  3 16    15.0 1   330.0     2.10    10.10    99.00    99.00
 9  1  3 17    15.0 1   329.0     2.10     9.50    99.00    99.00
 9  1  3 18    15.0 1   321.0     1.50     8.80    99.00    99.00
 9  1  3 19    15.0 1   297.0     1.50     7.90    99.00    99.00
 9  1  3 20    15.0 1   268.0     1.00     7.00    99.00    99.00
 9  1  3 21    15.0 1   257.0     1.50     6.10    99.00    99.00
 9  1  3 22    15.0 1   249.0     1.50     5.60    99.00    99.00
 9  1  3 23    15.0 1   251.0     1.00     5.00    99.00    99.00
 9  1  3 24    15.0 1   237.0     1.00     4.30    99.00    99.00
 9  1  4  1    15.0 1   246.0     1.50     3.60    99.00    99.00
 9  1  4  2    15.0 1   266.0     2.10     3.30    99.00    99.00
 9  1  4  3    15.0 1   288.0     3.10     3.00    99.00    99.00
 9  1  4  4    15.0 1   299.0     3.60     2.40    99.00    99.00
 9  1  4  5    15.0 1   301.0     3.10     1.80    99.00    99.00
 9  1  4  6    15.0 1   302.0     2.10     1.40    99.00    99.00
 9  1  4  7    15.0 1   286.0     2.10     1.10    99.00    99.00
 9  1  4  8    15.0 1   278.0     2.60     0.80    99.00    99.00
 9  1  4  9    15.0 1   306.0     3.10     2.30    99.00    99.00
 9  1  4 10    15.0 1   307.0     2.60     3.80    99.00    99.00
 9  1  4 11    15.0 1   297.0     2.10     5.50    99.00    99.00
 9  1  4 12    15.0 1   293.0     2.10     7.10    99.00    99.00
 9  1  4 13    15.0 1   315.0     2.10     8.10    99.00    99.00
 9  1  4 14    15.0 1   322.0     2.10     8.80    99.00    99.00
 9  1  4 15    15.0 1   331.0     2.10     9.10    99.00    99.00
 9  1  4 16    15.0 1   350.0     2.10     8.90    99.00    99.00
 9  1  4 17    15.0 1     0.0     0.00     8.10    99.00    99.00
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 9  1  4 18    15.0 1     9.0     1.50     7.10    99.00    99.00
 9  1  4 19    15.0 1   347.0     0.50     6.10    99.00    99.00
 9  1  4 20    15.0 1     0.0     0.00     5.10    99.00    99.00
 9  1  4 21    15.0 1   227.0     0.50     4.10    99.00    99.00
 9  1  4 22    15.0 1   249.0     0.50     3.30    99.00    99.00
 9  1  4 23    15.0 1   282.0     1.00     2.80    99.00    99.00
 9  1  4 24    15.0 1   288.0     1.50     2.40    99.00    99.00
 9  1  5  1    15.0 1   305.0     2.60     2.30    99.00    99.00
 9  1  5  2    15.0 1   314.0     2.60     1.90    99.00    99.00
 9  1  5  3    15.0 1   307.0     2.60     1.50    99.00    99.00
 9  1  5  4    15.0 1   310.0     2.10     1.10    99.00    99.00
 9  1  5  5    15.0 1   292.0     2.10     0.90    99.00    99.00
 9  1  5  6    15.0 1   285.0     1.50     0.80    99.00    99.00
 9  1  5  7    15.0 1   252.0     1.50     0.60    99.00    99.00
 9  1  5  8    15.0 1   235.0     1.00     0.60    99.00    99.00
 9  1  5  9    15.0 1   189.0     0.50     1.80    99.00    99.00
 9  1  5 10    15.0 1     0.0     0.00     3.60    99.00    99.00
 9  1  5 11    15.0 1     0.0     0.00     5.60    99.00    99.00
 9  1  5 12    15.0 1     0.0     0.00     6.80    99.00    99.00
 9  1  5 13    15.0 1     0.0     0.00     7.50    99.00    99.00
 9  1  5 14    15.0 1     0.0     0.00     8.50    99.00    99.00
 9  1  5 15    15.0 1     0.0     0.00     8.80    99.00    99.00
 9  1  5 16    15.0 1     0.0     0.00     9.10    99.00    99.00
 9  1  5 17    15.0 1     0.0     0.00     8.80    99.00    99.00
 9  1  5 18    15.0 1     0.0     0.00     8.40    99.00    99.00
 9  1  5 19    15.0 1     0.0     0.00     8.10    99.00    99.00
 9  1  5 20    15.0 1    77.0     0.50     8.00    99.00    99.00
 9  1  5 21    15.0 1    92.0     0.50     7.40    99.00    99.00
 9  1  5 22    15.0 1   120.0     1.00     6.60    99.00    99.00
 9  1  5 23    15.0 1   128.0     1.00     5.80    99.00    99.00
 9  1  5 24    15.0 1   132.0     0.50     5.10    99.00    99.00
 9  1  6  1    15.0 1     0.0     0.00     4.40    99.00    99.00
 9  1  6  2    15.0 1     0.0     0.00     3.80    99.00    99.00
 9  1  6  3    15.0 1     0.0     0.00     3.40    99.00    99.00
 9  1  6  4    15.0 1     0.0     0.00     3.00    99.00    99.00
 9  1  6  5    15.0 1     0.0     0.00     2.60    99.00    99.00
 9  1  6  6    15.0 1   116.0     0.50     2.50    99.00    99.00
 9  1  6  7    15.0 1   128.0     0.50     2.10    99.00    99.00
 9  1  6  8    15.0 1   132.0     0.50     2.10    99.00    99.00
 9  1  6  9    15.0 1   148.0     0.50     4.00    99.00    99.00
 9  1  6 10    15.0 1     0.0     0.00     6.30    99.00    99.00
 9  1  6 11    15.0 1     0.0     0.00     8.10    99.00    99.00
 9  1  6 12    15.0 1     0.0     0.00     9.30    99.00    99.00
 9  1  6 13    15.0 1     0.0     0.00    10.40    99.00    99.00
 9  1  6 14    15.0 1     0.0     0.00    11.10    99.00    99.00
 9  1  6 15    15.0 1     0.0     0.00    11.60    99.00    99.00
 9  1  6 16    15.0 1     0.0     0.00    11.60    99.00    99.00
 9  1  6 17    15.0 1     2.0     1.00    11.00    99.00    99.00
 9  1  6 18    15.0 1     5.0     2.60     9.60    99.00    99.00
 9  1  6 19    15.0 1   358.0     3.10     8.30    99.00    99.00
 9  1  6 20    15.0 1     0.0     0.00     7.40    99.00    99.00
 9  1  6 21    15.0 1    12.0     1.50     6.60    99.00    99.00
 9  1  6 22    15.0 1   346.0     1.00     6.10    99.00    99.00
 9  1  6 23    15.0 1   342.0     1.50     5.60    99.00    99.00
 9  1  6 24    15.0 1   336.0     1.50     5.10    99.00    99.00
 9  1  7  1    15.0 1   348.0     1.50     4.40    99.00    99.00
 9  1  7  2    15.0 1   353.0     1.00     3.90    99.00    99.00
 9  1  7  3    15.0 1   350.0     0.50     4.30    99.00    99.00
 9  1  7  4    15.0 1   355.0     0.50     4.80    99.00    99.00
 9  1  7  5    15.0 1     3.0     0.50     5.00    99.00    99.00
 9  1  7  6    15.0 1    16.0     0.50     5.10    99.00    99.00
 9  1  7  7    15.0 1    29.0     0.50     5.10    99.00    99.00
 9  1  7  8    15.0 1    54.0     0.50     5.10    99.00    99.00
 9  1  7  9    15.0 1    40.0     0.50     5.30    99.00    99.00
 9  1  7 10    15.0 1    24.0     0.50     5.30    99.00    99.00
 9  1  7 11    15.0 1     0.0     0.00     5.50    99.00    99.00
 9  1  7 12    15.0 1     2.0     1.00     5.80    99.00    99.00
 9  1  7 13    15.0 1    11.0     1.50     6.60    99.00    99.00
 9  1  7 14    15.0 1     6.0     2.10     8.00    99.00    99.00
 9  1  7 15    15.0 1     7.0     2.10     8.90    99.00    99.00
 9  1  7 16    15.0 1    15.0     2.10     9.00    99.00    99.00
 9  1  7 17    15.0 1    24.0     2.10     8.10    99.00    99.00
 9  1  7 18    15.0 1    44.0     1.50     7.10    99.00    99.00
 9  1  7 19    15.0 1    81.0     1.00     6.30    99.00    99.00
 9  1  7 20    15.0 1    72.0     0.50     5.10    99.00    99.00
 9  1  7 21    15.0 1    38.0     1.00     3.90    99.00    99.00
 9  1  7 22    15.0 1    52.0     0.50     3.40    99.00    99.00
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9	1	7	23	15.0	1	0.0	0.00	3.10	99.00	99.00
9	1	7	24	15.0	1	0.0	0.00	3.40	99.00	99.00
9	1	8	1	15.0	1	0.0	0.00	3.90	99.00	99.00
9	1	8	2	15.0	1	11.0	0.50	4.40	99.00	99.00
9	1	8	3	15.0	1	8.0	1.00	4.60	99.00	99.00
9	1	8	4	15.0	1	25.0	0.50	4.50	99.00	99.00
9	1	8	5	15.0	1	0.0	0.00	4.30	99.00	99.00
9	1	8	6	15.0	1	0.0	0.00	4.10	99.00	99.00
9	1	8	7	15.0	1	15.0	0.50	4.30	99.00	99.00
9	1	8	8	15.0	1	11.0	0.50	4.40	99.00	99.00
9	1	8	9	15.0	1	0.0	0.00	4.30	99.00	99.00
9	1	8	10	15.0	1	0.0	0.00	4.60	99.00	99.00
9	1	8	11	15.0	1	0.0	0.00	5.40	99.00	99.00
9	1	8	12	15.0	1	0.0	0.00	7.50	99.00	99.00
9	1	8	13	15.0	1	339.0	1.00	10.10	99.00	99.00
9	1	8	14	15.0	1	344.0	1.50	11.80	99.00	99.00
9	1	8	15	15.0	1	342.0	2.10	12.50	99.00	99.00
9	1	8	16	15.0	1	349.0	2.60	12.10	99.00	99.00
9	1	8	17	15.0	1	8.0	3.10	10.50	99.00	99.00
9	1	8	18	15.0	1	20.0	3.10	9.00	99.00	99.00
9	1	8	19	15.0	1	53.0	1.00	8.40	99.00	99.00
9	1	8	20	15.0	1	162.0	0.50	8.10	99.00	99.00
9	1	8	21	15.0	1	173.0	1.00	7.80	99.00	99.00
9	1	8	22	15.0	1	178.0	1.50	7.60	99.00	99.00
9	1	8	23	15.0	1	180.0	2.10	7.60	99.00	99.00
9	1	8	24	15.0	1	164.0	2.60	7.50	99.00	99.00
9	1	9	1	15.0	1	155.0	3.10	7.10	99.00	99.00
9	1	9	2	15.0	1	136.0	2.10	6.10	99.00	99.00
9	1	9	3	15.0	1	156.0	1.00	5.30	99.00	99.00
9	1	9	4	15.0	1	284.0	1.00	5.10	99.00	99.00
9	1	9	5	15.0	1	296.0	2.10	5.50	99.00	99.00
9	1	9	6	15.0	1	309.0	2.60	5.30	99.00	99.00
9	1	9	7	15.0	1	323.0	2.10	5.30	99.00	99.00
9	1	9	8	15.0	1	314.0	1.00	5.30	99.00	99.00
9	1	9	9	15.0	1	260.0	1.00	5.10	99.00	99.00
9	1	9	10	15.0	1	244.0	1.00	5.40	99.00	99.00
9	1	9	11	15.0	1	0.0	0.00	6.60	99.00	99.00
9	1	9	12	15.0	1	0.0	0.00	8.80	99.00	99.00
9	1	9	13	15.0	1	0.0	0.00	11.00	99.00	99.00
9	1	9	14	15.0	1	335.0	1.00	12.30	99.00	99.00
9	1	9	15	15.0	1	350.0	2.10	12.90	99.00	99.00
9	1	9	16	15.0	1	13.0	2.60	12.60	99.00	99.00
9	1	9	17	15.0	1	41.0	3.10	11.30	99.00	99.00
9	1	9	18	15.0	1	54.0	2.60	10.00	99.00	99.00
9	1	9	19	15.0	1	26.0	0.50	8.90	99.00	99.00
9	1	9	20	15.0	1	0.0	0.00	7.60	99.00	99.00
9	1	9	21	15.0	1	0.0	0.00	6.10	99.00	99.00
9	1	9	22	15.0	1	40.0	0.50	4.30	99.00	99.00
9	1	9	23	15.0	1	0.0	0.00	3.10	99.00	99.00
9	1	9	24	15.0	1	35.0	0.50	2.80	99.00	99.00
9	1	10	1	15.0	1	51.0	0.50	2.80	99.00	99.00
9	1	10	2	15.0	1	53.0	1.00	2.60	99.00	99.00
9	1	10	3	15.0	1	30.0	1.00	2.60	99.00	99.00
9	1	10	4	15.0	1	15.0	1.50	3.00	99.00	99.00
9	1	10	5	15.0	1	0.0	0.00	3.10	99.00	99.00
9	1	10	6	15.0	1	15.0	2.60	2.80	99.00	99.00
9	1	10	7	15.0	1	24.0	2.10	2.40	99.00	99.00
9	1	10	8	15.0	1	14.0	1.00	1.90	99.00	99.00
9	1	10	9	15.0	1	326.0	0.50	4.30	99.00	99.00
9	1	10	10	15.0	1	302.0	0.50	7.30	99.00	99.00
9	1	10	11	15.0	1	321.0	0.50	9.40	99.00	99.00
9	1	10	12	15.0	1	333.0	0.50	11.40	99.00	99.00
9	1	10	13	15.0	1	335.0	1.00	12.90	99.00	99.00
9	1	10	14	15.0	1	336.0	1.50	13.60	99.00	99.00
9	1	10	15	15.0	1	346.0	1.50	13.90	99.00	99.00
9	1	10	16	15.0	1	8.0	1.50	14.80	99.00	99.00
9	1	10	17	15.0	1	38.0	1.50	14.00	99.00	99.00
9	1	10	18	15.0	1	87.0	1.00	12.90	99.00	99.00
9	1	10	19	15.0	1	173.0	0.50	11.60	99.00	99.00
9	1	10	20	15.0	1	0.0	0.00	10.50	99.00	99.00
9	1	10	21	15.0	1	35.0	0.50	9.60	99.00	99.00
9	1	10	22	15.0	1	32.0	1.50	8.90	99.00	99.00
9	1	10	23	15.0	1	38.0	1.50	8.50	99.00	99.00
9	1	10	24	15.0	1	31.0	1.00	8.00	99.00	99.00
9	1	11	1	15.0	1	350.0	0.50	7.50	99.00	99.00
9	1	11	2	15.0	1	314.0	1.00	7.10	99.00	99.00
9	1	11	3	15.0	1	303.0	1.00	6.80	99.00	99.00

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 9  1 11  4    15.0 1   304.0     1.00     6.60    99.00    99.00
 9  1 11  5    15.0 1   343.0     0.50     6.50    99.00    99.00
 9  1 11  6    15.0 1    34.0     0.50     6.10    99.00    99.00
 9  1 11  7    15.0 1    52.0     0.50     5.80    99.00    99.00
 9  1 11  8    15.0 1     0.0     0.00     5.60    99.00    99.00
 9  1 11  9    15.0 1     0.0     0.00     6.90    99.00    99.00
 9  1 11 10    15.0 1   305.0     0.50    10.80    99.00    99.00
 9  1 11 11    15.0 1   307.0     0.50    12.80    99.00    99.00
 9  1 11 12    15.0 1   300.0     0.50    14.50    99.00    99.00
 9  1 11 13    15.0 1   315.0     0.50    15.60    99.00    99.00
 9  1 11 14    15.0 1   334.0     1.00    16.30    99.00    99.00
 9  1 11 15    15.0 1   347.0     1.00    16.50    99.00    99.00
 9  1 11 16    15.0 1    21.0     0.50    16.30    99.00    99.00
 9  1 11 17    15.0 1     0.0     0.00    15.40    99.00    99.00
 9  1 11 18    15.0 1     0.0     0.00    14.10    99.00    99.00
 9  1 11 19    15.0 1     0.0     0.00    12.80    99.00    99.00
 9  1 11 20    15.0 1     0.0     0.00    11.80    99.00    99.00
 9  1 11 21    15.0 1    36.0     0.50    10.90    99.00    99.00
 9  1 11 22    15.0 1    36.0     1.00    10.10    99.00    99.00
 9  1 11 23    15.0 1    41.0     1.00     9.60    99.00    99.00
 9  1 11 24    15.0 1    49.0     0.50     9.10    99.00    99.00
 9  1 12  1    15.0 1   318.0     0.50     8.60    99.00    99.00
 9  1 12  2    15.0 1   309.0     1.00     8.30    99.00    99.00
 9  1 12  3    15.0 1   304.0     1.50     8.00    99.00    99.00
 9  1 12  4    15.0 1   276.0     2.10     7.80    99.00    99.00
 9  1 12  5    15.0 1   267.0     3.10     7.60    99.00    99.00
 9  1 12  6    15.0 1   268.0     3.60     7.60    99.00    99.00
 9  1 12  7    15.0 1   278.0     3.10     7.50    99.00    99.00
 9  1 12  8    15.0 1   282.0     2.60     7.50    99.00    99.00
 9  1 12  9    15.0 1   303.0     2.10     9.00    99.00    99.00
 9  1 12 10    15.0 1   311.0     1.50    11.10    99.00    99.00
 9  1 12 11    15.0 1   318.0     1.00    13.10    99.00    99.00
 9  1 12 12    15.0 1   329.0     1.00    14.90    99.00    99.00
 9  1 12 13    15.0 1   328.0     1.50    16.40    99.00    99.00
 9  1 12 14    15.0 1   338.0     2.10    17.40    99.00    99.00
 9  1 12 15    15.0 1   351.0     2.60    17.80    99.00    99.00
 9  1 12 16    15.0 1     9.0     3.10    17.30    99.00    99.00
 9  1 12 17    15.0 1    26.0     3.60    16.40    99.00    99.00
 9  1 12 18    15.0 1    39.0     2.60    15.40    99.00    99.00
 9  1 12 19    15.0 1    52.0     0.50    14.10    99.00    99.00
 9  1 12 20    15.0 1     0.0     0.00    13.10    99.00    99.00
 9  1 12 21    15.0 1    66.0     1.00    12.50    99.00    99.00
 9  1 12 22    15.0 1    87.0     2.10    11.90    99.00    99.00
 9  1 12 23    15.0 1   105.0     2.60    11.40    99.00    99.00
 9  1 12 24    15.0 1   100.0     2.10    11.10    99.00    99.00
 9  1 13  1    15.0 1    79.0     1.50    10.60    99.00    99.00
 9  1 13  2    15.0 1    48.0     2.10    10.30    99.00    99.00
 9  1 13  3    15.0 1    43.0     2.60     9.80    99.00    99.00
 9  1 13  4    15.0 1    39.0     3.10     9.30    99.00    99.00
 9  1 13  5    15.0 1    34.0     2.60     8.90    99.00    99.00
 9  1 13  6    15.0 1    30.0     2.10     8.60    99.00    99.00
 9  1 13  7    15.0 1    17.0     1.00     8.30    99.00    99.00
 9  1 13  8    15.0 1    23.0     0.50     8.10    99.00    99.00
 9  1 13  9    15.0 1    21.0     0.50     9.40    99.00    99.00
 9  1 13 10    15.0 1   333.0     0.50    12.80    99.00    99.00
 9  1 13 11    15.0 1     0.0     0.00    14.60    99.00    99.00
 9  1 13 12    15.0 1   321.0     1.00    16.60    99.00    99.00
 9  1 13 13    15.0 1   330.0     1.50    17.90    99.00    99.00
 9  1 13 14    15.0 1   327.0     2.10    18.60    99.00    99.00
 9  1 13 15    15.0 1   341.0     2.10    18.80    99.00    99.00
 9  1 13 16    15.0 1     0.0     0.00    18.60    99.00    99.00
 9  1 13 17    15.0 1    37.0     1.00    17.60    99.00    99.00
 9  1 13 18    15.0 1     0.0     0.00    16.10    99.00    99.00
 9  1 13 19    15.0 1     0.0     0.00    14.80    99.00    99.00
 9  1 13 20    15.0 1     0.0     0.00    13.60    99.00    99.00
 9  1 13 21    15.0 1     0.0     0.00    12.60    99.00    99.00
 9  1 13 22    15.0 1     0.0     0.00    11.80    99.00    99.00
 9  1 13 23    15.0 1     0.0     0.00    11.10    99.00    99.00
 9  1 13 24    15.0 1     0.0     0.00    10.60    99.00    99.00
 9  1 14  1    15.0 1     0.0     0.00    10.10    99.00    99.00
 9  1 14  2    15.0 1   343.0     0.50     9.80    99.00    99.00
 9  1 14  3    15.0 1   328.0     0.50     9.40    99.00    99.00
 9  1 14  4    15.0 1   320.0     0.50     9.10    99.00    99.00
 9  1 14  5    15.0 1   292.0     0.50     8.80    99.00    99.00
 9  1 14  6    15.0 1   266.0     1.00     8.60    99.00    99.00
 9  1 14  7    15.0 1   262.0     1.50     8.50    99.00    99.00
 9  1 14  8    15.0 1   254.0     1.50     8.60    99.00    99.00
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 9  1 14  9    15.0 1   270.0     1.50    10.10    99.00    99.00
 9  1 14 10    15.0 1   290.0     1.50    12.10    99.00    99.00
 9  1 14 11    15.0 1   288.0     1.00    14.00    99.00    99.00
 9  1 14 12    15.0 1   287.0     0.50    15.90    99.00    99.00
 9  1 14 13    15.0 1   293.0     0.50    17.40    99.00    99.00
 9  1 14 14    15.0 1   321.0     1.00    18.10    99.00    99.00
 9  1 14 15    15.0 1   337.0     1.50    18.50    99.00    99.00
 9  1 14 16    15.0 1     6.0     1.50    18.10    99.00    99.00
 9  1 14 17    15.0 1    42.0     1.50    17.10    99.00    99.00
 9  1 14 18    15.0 1    66.0     1.00    15.90    99.00    99.00
 9  1 14 19    15.0 1     0.0     0.00    14.40    99.00    99.00
 9  1 14 20    15.0 1     0.0     0.00    13.10    99.00    99.00
 9  1 14 21    15.0 1    16.0     0.50    12.30    99.00    99.00
 9  1 14 22    15.0 1    27.0     1.50    11.50    99.00    99.00
 9  1 14 23    15.0 1    37.0     2.10    10.80    99.00    99.00
 9  1 14 24    15.0 1    30.0     1.50    10.30    99.00    99.00
 9  1 15  1    15.0 1    10.0     1.00     9.80    99.00    99.00
 9  1 15  2    15.0 1   342.0     0.50     9.30    99.00    99.00
 9  1 15  3    15.0 1   328.0     1.00     8.90    99.00    99.00
 9  1 15  4    15.0 1   330.0     1.50     8.50    99.00    99.00
 9  1 15  5    15.0 1   325.0     1.50     8.10    99.00    99.00
 9  1 15  6    15.0 1   320.0     1.00     8.00    99.00    99.00
 9  1 15  7    15.0 1   309.0     0.50     7.90    99.00    99.00
 9  1 15  8    15.0 1   302.0     0.50     7.80    99.00    99.00
 9  1 15  9    15.0 1   297.0     1.50     9.50    99.00    99.00
 9  1 15 10    15.0 1   297.0     1.50    11.60    99.00    99.00
 9  1 15 11    15.0 1   312.0     1.00    13.60    99.00    99.00
 9  1 15 12    15.0 1   330.0     1.00    15.40    99.00    99.00
 9  1 15 13    15.0 1   344.0     1.00    16.90    99.00    99.00
 9  1 15 14    15.0 1   360.0     1.50    17.80    99.00    99.00
 9  1 15 15    15.0 1    13.0     2.10    18.00    99.00    99.00
 9  1 15 16    15.0 1    26.0     2.10    18.40    99.00    99.00
 9  1 15 17    15.0 1    53.0     2.60    17.50    99.00    99.00
 9  1 15 18    15.0 1    57.0     1.50    16.30    99.00    99.00
 9  1 15 19    15.0 1   131.0     0.50    15.10    99.00    99.00
 9  1 15 20    15.0 1   162.0     1.00    14.00    99.00    99.00
 9  1 15 21    15.0 1   134.0     2.10    12.90    99.00    99.00
 9  1 15 22    15.0 1   133.0     3.10    12.10    99.00    99.00
 9  1 15 23    15.0 1   119.0     3.60    11.50    99.00    99.00
 9  1 15 24    15.0 1   120.0     3.60    11.10    99.00    99.00
 9  1 16  1    15.0 1   106.0     3.10    11.10    99.00    99.00
 9  1 16  2    15.0 1    89.0     2.60    10.80    99.00    99.00
 9  1 16  3    15.0 1    77.0     2.10    10.10    99.00    99.00
 9  1 16  4    15.0 1    79.0     1.50     9.60    99.00    99.00
 9  1 16  5    15.0 1    84.0     1.50     9.10    99.00    99.00
 9  1 16  6    15.0 1    72.0     1.50     8.50    99.00    99.00
 9  1 16  7    15.0 1    62.0     1.50     7.90    99.00    99.00
 9  1 16  8    15.0 1    58.0     1.50     7.60    99.00    99.00
 9  1 16  9    15.0 1    52.0     1.00     9.10    99.00    99.00
 9  1 16 10    15.0 1   327.0     1.00    12.60    99.00    99.00
 9  1 16 11    15.0 1   331.0     1.00    14.60    99.00    99.00
 9  1 16 12    15.0 1     2.0     2.10    16.60    99.00    99.00
 9  1 16 13    15.0 1     0.0     0.00    18.00    99.00    99.00
 9  1 16 14    15.0 1    10.0     3.60    18.80    99.00    99.00
 9  1 16 15    15.0 1    11.0     4.10    18.80    99.00    99.00
 9  1 16 16    15.0 1    25.0     4.10    17.60    99.00    99.00
 9  1 16 17    15.0 1    26.0     4.10    16.30    99.00    99.00
 9  1 16 18    15.0 1    51.0     3.10    15.50    99.00    99.00
 9  1 16 19    15.0 1    69.0     1.50    14.60    99.00    99.00
 9  1 16 20    15.0 1     0.0     0.00    13.60    99.00    99.00
 9  1 16 21    15.0 1   326.0     0.50    12.60    99.00    99.00
 9  1 16 22    15.0 1   346.0     1.00    11.80    99.00    99.00
 9  1 16 23    15.0 1     0.0     0.00    11.10    99.00    99.00
 9  1 16 24    15.0 1    12.0     1.50    10.50    99.00    99.00
 9  1 17  1    15.0 1     7.0     1.50    10.10    99.00    99.00
 9  1 17  2    15.0 1   338.0     1.00     9.80    99.00    99.00
 9  1 17  3    15.0 1   279.0     1.00     9.50    99.00    99.00
 9  1 17  4    15.0 1   274.0     1.50     9.00    99.00    99.00
 9  1 17  5    15.0 1   283.0     2.10     8.50    99.00    99.00
 9  1 17  6    15.0 1   277.0     2.60     8.00    99.00    99.00
 9  1 17  7    15.0 1   290.0     2.60     7.60    99.00    99.00
 9  1 17  8    15.0 1   291.0     2.10     7.40    99.00    99.00
 9  1 17  9    15.0 1   314.0     2.60     9.00    99.00    99.00
 9  1 17 10    15.0 1   312.0     2.10    10.60    99.00    99.00
 9  1 17 11    15.0 1   296.0     1.50    12.60    99.00    99.00
 9  1 17 12    15.0 1   315.0     1.00    14.40    99.00    99.00
 9  1 17 13    15.0 1   306.0     1.50    16.00    99.00    99.00
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 9  1 17 14    15.0 1   318.0     1.50    16.80    99.00    99.00
 9  1 17 15    15.0 1   324.0     2.10    17.10    99.00    99.00
 9  1 17 16    15.0 1   342.0     1.50    17.00    99.00    99.00
 9  1 17 17    15.0 1    58.0     0.50    16.10    99.00    99.00
 9  1 17 18    15.0 1   149.0     0.50    14.80    99.00    99.00
 9  1 17 19    15.0 1     0.0     0.00    13.40    99.00    99.00
 9  1 17 20    15.0 1   287.0     0.50    12.30    99.00    99.00
 9  1 17 21    15.0 1   318.0     0.50    11.30    99.00    99.00
 9  1 17 22    15.0 1     8.0     1.00    10.50    99.00    99.00
 9  1 17 23    15.0 1    31.0     1.00     9.90    99.00    99.00
 9  1 17 24    15.0 1    29.0     1.00     9.40    99.00    99.00
 9  1 18  1    15.0 1    20.0     1.00     9.10    99.00    99.00
 9  1 18  2    15.0 1     9.0     1.00     8.80    99.00    99.00
 9  1 18  3    15.0 1   349.0     1.00     8.40    99.00    99.00
 9  1 18  4    15.0 1   323.0     1.00     8.10    99.00    99.00
 9  1 18  5    15.0 1   315.0     1.00     7.60    99.00    99.00
 9  1 18  6    15.0 1   322.0     1.00     7.30    99.00    99.00
 9  1 18  7    15.0 1   329.0     1.00     6.90    99.00    99.00
 9  1 18  8    15.0 1   338.0     0.50     6.60    99.00    99.00
 9  1 18  9    15.0 1   313.0     1.00     8.50    99.00    99.00
 9  1 18 10    15.0 1   312.0     2.10    11.10    99.00    99.00
 9  1 18 11    15.0 1   317.0     2.10    13.00    99.00    99.00
 9  1 18 12    15.0 1   337.0     2.10    14.90    99.00    99.00
 9  1 18 13    15.0 1   351.0     2.60    16.10    99.00    99.00
 9  1 18 14    15.0 1   355.0     2.60    17.10    99.00    99.00
 9  1 18 15    15.0 1     1.0     2.60    17.50    99.00    99.00
 9  1 18 16    15.0 1    15.0     2.60    17.10    99.00    99.00
 9  1 18 17    15.0 1    19.0     3.10    16.10    99.00    99.00
 9  1 18 18    15.0 1    39.0     2.10    15.00    99.00    99.00
 9  1 18 19    15.0 1    95.0     1.00    13.90    99.00    99.00
 9  1 18 20    15.0 1   130.0     1.00    13.10    99.00    99.00
 9  1 18 21    15.0 1   119.0     0.50    12.30    99.00    99.00
 9  1 18 22    15.0 1    71.0     1.00    11.40    99.00    99.00
 9  1 18 23    15.0 1    53.0     1.50    10.50    99.00    99.00
 9  1 18 24    15.0 1    36.0     1.50     9.90    99.00    99.00
 9  1 19  1    15.0 1    27.0     1.50     9.10    99.00    99.00
 9  1 19  2    15.0 1    27.0     1.50     8.60    99.00    99.00
 9  1 19  3    15.0 1    35.0     1.50     8.10    99.00    99.00
 9  1 19  4    15.0 1    16.0     1.50     7.90    99.00    99.00
 9  1 19  5    15.0 1   353.0     1.00     7.80    99.00    99.00
 9  1 19  6    15.0 1   318.0     1.00     7.60    99.00    99.00
 9  1 19  7    15.0 1   302.0     1.00     7.40    99.00    99.00
 9  1 19  8    15.0 1   272.0     0.50     7.10    99.00    99.00
 9  1 19  9    15.0 1   297.0     2.10     9.10    99.00    99.00
 9  1 19 10    15.0 1   301.0     2.60    11.30    99.00    99.00
 9  1 19 11    15.0 1   314.0     2.10    13.10    99.00    99.00
 9  1 19 12    15.0 1   319.0     2.10    15.10    99.00    99.00
 9  1 19 13    15.0 1   340.0     2.10    16.40    99.00    99.00
 9  1 19 14    15.0 1   340.0     2.10    17.40    99.00    99.00
 9  1 19 15    15.0 1   351.0     2.60    17.80    99.00    99.00
 9  1 19 16    15.0 1     3.0     2.60    17.50    99.00    99.00
 9  1 19 17    15.0 1    24.0     2.60    16.60    99.00    99.00
 9  1 19 18    15.0 1    38.0     1.50    15.50    99.00    99.00
 9  1 19 19    15.0 1    70.0     0.50    14.10    99.00    99.00
 9  1 19 20    15.0 1     0.0     0.00    13.10    99.00    99.00
 9  1 19 21    15.0 1     0.0     0.00    12.10    99.00    99.00
 9  1 19 22    15.0 1     0.0     0.00    11.30    99.00    99.00
 9  1 19 23    15.0 1     0.0     0.00    10.50    99.00    99.00
 9  1 19 24    15.0 1     0.0     0.00     9.90    99.00    99.00
 9  1 20  1    15.0 1    19.0     0.50     9.40    99.00    99.00
 9  1 20  2    15.0 1     3.0     0.50     9.00    99.00    99.00
 9  1 20  3    15.0 1   317.0     0.50     8.60    99.00    99.00
 9  1 20  4    15.0 1   304.0     1.00     8.30    99.00    99.00
 9  1 20  5    15.0 1   307.0     1.00     8.10    99.00    99.00
 9  1 20  6    15.0 1   323.0     1.00     7.80    99.00    99.00
 9  1 20  7    15.0 1   325.0     1.00     7.50    99.00    99.00
 9  1 20  8    15.0 1   308.0     1.00     7.40    99.00    99.00
 9  1 20  9    15.0 1   310.0     2.10     9.40    99.00    99.00
 9  1 20 10    15.0 1   315.0     2.10    11.10    99.00    99.00
 9  1 20 11    15.0 1   308.0     2.10    13.30    99.00    99.00
 9  1 20 12    15.0 1   326.0     1.50    15.00    99.00    99.00
 9  1 20 13    15.0 1   343.0     1.50    16.30    99.00    99.00
 9  1 20 14    15.0 1   340.0     1.50    17.30    99.00    99.00
 9  1 20 15    15.0 1   352.0     2.10    17.80    99.00    99.00
 9  1 20 16    15.0 1   353.0     2.60    17.60    99.00    99.00
 9  1 20 17    15.0 1     0.0     0.00    17.00    99.00    99.00
 9  1 20 18    15.0 1     9.0     1.50    16.30    99.00    99.00
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 9   1 20 19     15.0 1    17.0      0.50     15.60     99.00     99.00
 9   1 20 20     15.0 1    15.0      0.50     15.10     99.00     99.00
 9   1 20 21     15.0 1   329.0      0.50     14.60     99.00     99.00
 9   1 20 22     15.0 1   354.0      0.50     14.40     99.00     99.00
 9   1 20 23     15.0 1   349.0      1.00     14.10     99.00     99.00
 9   1 20 24     15.0 1   348.0      1.50     14.10     99.00     99.00
 9   1 21  1     15.0 1   349.0      2.10     14.00     99.00     99.00
 9   1 21  2     15.0 1   330.0      1.50     13.60     99.00     99.00
 9   1 21  3     15.0 1   319.0      2.10     13.40     99.00     99.00
 9   1 21  4     15.0 1   320.0      2.60     13.00     99.00     99.00
 9   1 21  5     15.0 1   317.0      2.60     12.60     99.00     99.00
 9   1 21  6     15.0 1   321.0      2.10     12.50     99.00     99.00
 9   1 21  7     15.0 1   309.0      2.10     12.60     99.00     99.00
 9   1 21  8     15.0 1   307.0      2.10     12.60     99.00     99.00
 9   1 21  9     15.0 1   335.0      2.10     12.80     99.00     99.00
 9   1 21 10     15.0 1   340.0      2.10     13.60     99.00     99.00
 9   1 21 11     15.0 1   332.0      2.60     14.40     99.00     99.00
 9   1 21 12     15.0 1   325.0      2.60     14.90     99.00     99.00
 9   1 21 13     15.0 1   319.0      2.60     15.10     99.00     99.00
 9   1 21 14     15.0 1   326.0      3.10     15.40     99.00     99.00
 9   1 21 15     15.0 1   310.0      3.10     15.10     99.00     99.00
 9   1 21 16     15.0 1   308.0      2.60     14.60     99.00     99.00
 9   1 21 17     15.0 1   318.0      2.60     14.30     99.00     99.00
 9   1 21 18     15.0 1   334.0      2.60     13.90     99.00     99.00
 9   1 21 19     15.0 1   306.0      3.10     13.40     99.00     99.00
 9   1 21 20     15.0 1   319.0      3.10     13.00     99.00     99.00
 9   1 21 21     15.0 1   306.0      3.10     12.60     99.00     99.00
 9   1 21 22     15.0 1   327.0      3.10     12.50     99.00     99.00
 9   1 21 23     15.0 1   328.0      2.60     12.40     99.00     99.00
 9   1 21 24     15.0 1   339.0      2.60     12.30     99.00     99.00
 9   1 22  1     15.0 1   342.0      2.60     12.10     99.00     99.00
 9   1 22  2     15.0 1   331.0      2.60     12.10     99.00     99.00
 9   1 22  3     15.0 1   330.0      2.60     12.10     99.00     99.00
 9   1 22  4     15.0 1   334.0      2.60     12.00     99.00     99.00
 9   1 22  5     15.0 1   335.0      3.10     12.00     99.00     99.00
 9   1 22  6     15.0 1   332.0      2.60     12.10     99.00     99.00
 9   1 22  7     15.0 1   337.0      2.60     12.10     99.00     99.00
 9   1 22  8     15.0 1     2.0      2.60     12.30     99.00     99.00
 9   1 22  9     15.0 1   358.0      3.10     12.60     99.00     99.00
 9   1 22 10     15.0 1   354.0      3.10     13.30     99.00     99.00
 9   1 22 11     15.0 1   338.0      3.60     14.10     99.00     99.00
 9   1 22 12     15.0 1   333.0      4.10     14.60     99.00     99.00
 9   1 22 13     15.0 1   327.0      4.10     15.30     99.00     99.00
 9   1 22 14     15.0 1   337.0      3.60     16.30     99.00     99.00
 9   1 22 15     15.0 1   345.0      3.60     16.60     99.00     99.00
 9   1 22 16     15.0 1   344.0      4.10     16.40     99.00     99.00
 9   1 22 17     15.0 1   329.0      3.10     15.50     99.00     99.00
 9   1 22 18     15.0 1   316.0      3.10     14.60     99.00     99.00
 9   1 22 19     15.0 1   325.0      2.60     14.10     99.00     99.00
 9   1 22 20     15.0 1   317.0      2.60     13.60     99.00     99.00
 9   1 22 21     15.0 1   320.0      2.60     13.00     99.00     99.00
 9   1 22 22     15.0 1   335.0      2.10     12.60     99.00     99.00
 9   1 22 23     15.0 1   331.0      1.50     12.50     99.00     99.00
 9   1 22 24     15.0 1   343.0      1.50     12.60     99.00     99.00
 9   1 23  1     15.0 1   320.0      1.00     12.60     99.00     99.00
 9   1 23  2     15.0 1   297.0      0.50     12.60     99.00     99.00
 9   1 23  3     15.0 1     0.0      0.00     12.60     99.00     99.00
 9   1 23  4     15.0 1     0.0      0.00     12.80     99.00     99.00
 9   1 23  5     15.0 1     0.0      0.00     12.80     99.00     99.00
 9   1 23  6     15.0 1     0.0      0.00     12.80     99.00     99.00
 9   1 23  7     15.0 1     0.0      0.00     12.80     99.00     99.00
 9   1 23  8     15.0 1     0.0      0.00     12.80     99.00     99.00
 9   1 23  9     15.0 1     0.0      0.00     12.40     99.00     99.00
 9   1 23 10     15.0 1    19.0      0.50     12.40     99.00     99.00
 9   1 23 11     15.0 1     0.0      0.00     13.00     99.00     99.00
 9   1 23 12     15.0 1   344.0      1.50     14.30     99.00     99.00
 9   1 23 13     15.0 1   320.0      2.60     15.60     99.00     99.00
 9   1 23 14     15.0 1   319.0      3.10     16.90     99.00     99.00
 9   1 23 15     15.0 1   320.0      3.60     17.30     99.00     99.00
 9   1 23 16     15.0 1   313.0      3.60     16.80     99.00     99.00
 9   1 23 17     15.0 1   292.0      3.10     16.10     99.00     99.00
 9   1 23 18     15.0 1   275.0      2.60     15.90     99.00     99.00
 9   1 23 19     15.0 1   264.0      1.50     15.80     99.00     99.00
 9   1 23 20     15.0 1   291.0      2.10     15.80     99.00     99.00
 9   1 23 21     15.0 1   307.0      2.60     15.50     99.00     99.00
 9   1 23 22     15.0 1   297.0      2.60     15.10     99.00     99.00
 9   1 23 23     15.0 1   277.0      2.10     15.00     99.00     99.00
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 9   1 23 24     15.0 1   270.0      2.10     14.80     99.00     99.00
 9   1 24  1     15.0 1   256.0      2.60     14.80     99.00     99.00
 9   1 24  2     15.0 1   269.0      2.60     14.60     99.00     99.00
 9   1 24  3     15.0 1   267.0      2.60     14.40     99.00     99.00
 9   1 24  4     15.0 1   288.0      2.10     14.10     99.00     99.00
 9   1 24  5     15.0 1   299.0      1.50     14.00     99.00     99.00
 9   1 24  6     15.0 1   302.0      1.00     13.90     99.00     99.00
 9   1 24  7     15.0 1   297.0      1.00     13.80     99.00     99.00
 9   1 24  8     15.0 1   303.0      1.00     13.80     99.00     99.00
 9   1 24  9     15.0 1   298.0      1.50     13.90     99.00     99.00
 9   1 24 10     15.0 1   294.0      3.60     14.40     99.00     99.00
 9   1 24 11     15.0 1   307.0      2.60     15.00     99.00     99.00
 9   1 24 12     15.0 1   338.0      1.50     15.50     99.00     99.00
 9   1 24 13     15.0 1   339.0      0.50     16.60     99.00     99.00
 9   1 24 14     15.0 1     0.0      0.00     17.30     99.00     99.00
 9   1 24 15     15.0 1   183.0      1.00     17.30     99.00     99.00
 9   1 24 16     15.0 1   168.0      2.60     17.10     99.00     99.00
 9   1 24 17     15.0 1   168.0      3.10     16.00     99.00     99.00
 9   1 24 18     15.0 1   182.0      3.10     15.00     99.00     99.00
 9   1 24 19     15.0 1   202.0      2.10     14.50     99.00     99.00
 9   1 24 20     15.0 1   232.0      1.50     14.00     99.00     99.00
 9   1 24 21     15.0 1   265.0      1.00     13.50     99.00     99.00
 9   1 24 22     15.0 1   245.0      1.00     13.00     99.00     99.00
 9   1 24 23     15.0 1   253.0      0.50     12.80     99.00     99.00
 9   1 24 24     15.0 1   279.0      3.10     12.60     99.00     99.00
 9   1 25  1     15.0 1   300.0      4.60     12.60     99.00     99.00
 9   1 25  2     15.0 1   312.0      4.10     12.30     99.00     99.00
 9   1 25  3     15.0 1   304.0      4.60     11.30     99.00     99.00
 9   1 25  4     15.0 1   305.0      4.10     10.10     99.00     99.00
 9   1 25  5     15.0 1   301.0      3.60      9.10     99.00     99.00
 9   1 25  6     15.0 1   315.0      3.60      8.50     99.00     99.00
 9   1 25  7     15.0 1   306.0      3.10      7.90     99.00     99.00
 9   1 25  8     15.0 1   311.0      3.10      7.90     99.00     99.00
 9   1 25  9     15.0 1   324.0      5.10      9.10     99.00     99.00
 9   1 25 10     15.0 1   322.0      4.60      9.80     99.00     99.00
 9   1 25 11     15.0 1   331.0      4.10     10.10     99.00     99.00
 9   1 25 12     15.0 1   338.0      4.10     10.10     99.00     99.00
 9   1 25 13     15.0 1     3.0      4.10     10.50     99.00     99.00
 9   1 25 14     15.0 1    12.0      4.60     10.60     99.00     99.00
 9   1 25 15     15.0 1    12.0      4.60     10.40     99.00     99.00
 9   1 25 16     15.0 1   360.0      4.10     10.30     99.00     99.00
 9   1 25 17     15.0 1     0.0      0.00      9.90     99.00     99.00
 9   1 25 18     15.0 1   341.0      1.50      9.40     99.00     99.00
 9   1 25 19     15.0 1   311.0      1.50      9.00     99.00     99.00
 9   1 25 20     15.0 1   310.0      1.50      8.50     99.00     99.00
 9   1 25 21     15.0 1   308.0      1.00      8.10     99.00     99.00
 9   1 25 22     15.0 1   270.0      0.50      7.80     99.00     99.00
 9   1 25 23     15.0 1   207.0      0.50      7.40     99.00     99.00
 9   1 25 24     15.0 1   200.0      0.50      7.10     99.00     99.00
 9   1 26  1     15.0 1   232.0      1.00      6.90     99.00     99.00
 9   1 26  2     15.0 1   275.0      2.10      6.60     99.00     99.00
 9   1 26  3     15.0 1   298.0      2.60      6.00     99.00     99.00
 9   1 26  4     15.0 1   308.0      2.60      5.40     99.00     99.00
 9   1 26  5     15.0 1   304.0      3.10      5.10     99.00     99.00
 9   1 26  6     15.0 1   306.0      4.10      5.00     99.00     99.00
 9   1 26  7     15.0 1   323.0      5.10      4.40     99.00     99.00
 9   1 26  8     15.0 1   326.0      4.10      3.80     99.00     99.00
 9   1 26  9     15.0 1   323.0      3.60      3.60     99.00     99.00
 9   1 26 10     15.0 1   324.0      3.10      3.90     99.00     99.00
 9   1 26 11     15.0 1   322.0      2.60      4.30     99.00     99.00
 9   1 26 12     15.0 1   306.0      2.60      4.60     99.00     99.00
 9   1 26 13     15.0 1   306.0      2.10      5.30     99.00     99.00
 9   1 26 14     15.0 1   322.0      1.50      6.60     99.00     99.00
 9   1 26 15     15.0 1   326.0      2.10      7.80     99.00     99.00
 9   1 26 16     15.0 1   350.0      2.60      8.00     99.00     99.00
 9   1 26 17     15.0 1    15.0      2.60      7.40     99.00     99.00
 9   1 26 18     15.0 1    31.0      2.10      6.60     99.00     99.00
 9   1 26 19     15.0 1    74.0      1.00      6.00     99.00     99.00
 9   1 26 20     15.0 1   138.0      0.50      5.30     99.00     99.00
 9   1 26 21     15.0 1   136.0      1.50      4.60     99.00     99.00
 9   1 26 22     15.0 1   146.0      1.50      4.10     99.00     99.00
 9   1 26 23     15.0 1   164.0      2.10      3.90     99.00     99.00
 9   1 26 24     15.0 1   158.0      2.60      3.40     99.00     99.00
 9   1 27  1     15.0 1   171.0      2.10      3.10     99.00     99.00
 9   1 27  2     15.0 1   182.0      1.00      2.60     99.00     99.00
 9   1 27  3     15.0 1   241.0      1.00      2.10     99.00     99.00
 9   1 27  4     15.0 1   261.0      2.10      1.90     99.00     99.00
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 9   1 27   5     15.0 1   268.0      2.60      1.40     99.00     99.00
 9   1 27   6     15.0 1   281.0      3.10      0.90     99.00     99.00
 9   1 27   7     15.0 1   277.0      3.10      0.50     99.00     99.00
 9   1 27   8     15.0 1   290.0      2.60      0.50     99.00     99.00
 9   1 27   9     15.0 1   321.0      3.60      2.80     99.00     99.00
 9   1 27  10     15.0 1   322.0      1.50      4.60     99.00     99.00
 9   1 27  11     15.0 1   293.0      1.00      5.90     99.00     99.00
 9   1 27  12     15.0 1   280.0      1.00      7.10     99.00     99.00
 9   1 27  13     15.0 1   286.0      1.00      8.00     99.00     99.00
 9   1 27  14     15.0 1   297.0      0.50      8.80     99.00     99.00
 9   1 27  15     15.0 1   314.0      0.50      9.30     99.00     99.00
 9   1 27  16     15.0 1   316.0      1.00      9.40     99.00     99.00
 9   1 27  17     15.0 1   328.0      1.00      9.00     99.00     99.00
 9   1 27  18     15.0 1     0.0      0.00      7.90     99.00     99.00
 9   1 27  19     15.0 1     0.0      0.00      6.60     99.00     99.00
 9   1 27  20     15.0 1     0.0      0.00      5.60     99.00     99.00
 9   1 27  21     15.0 1     0.0      0.00      4.80     99.00     99.00
 9   1 27  22     15.0 1     0.0      0.00      3.90     99.00     99.00
 9   1 27  23     15.0 1    86.0      0.50      3.30     99.00     99.00
 9   1 27  24     15.0 1     0.0      0.00      2.60     99.00     99.00
 9   1 28   1     15.0 1     0.0      0.00      2.30     99.00     99.00
 9   1 28   2     15.0 1     0.0      0.00      1.80     99.00     99.00
 9   1 28   3     15.0 1     0.0      0.00      1.50     99.00     99.00
 9   1 28   4     15.0 1     0.0      0.00      1.10     99.00     99.00
 9   1 28   5     15.0 1     0.0      0.00      0.90     99.00     99.00
 9   1 28   6     15.0 1     0.0      0.00      0.60     99.00     99.00
 9   1 28   7     15.0 1   136.0      0.50      0.60     99.00     99.00
 9   1 28   8     15.0 1   149.0      0.50      0.80     99.00     99.00
 9   1 28   9     15.0 1     0.0      0.00      3.50     99.00     99.00
 9   1 28  10     15.0 1     0.0      0.00      6.10     99.00     99.00
 9   1 28  11     15.0 1     0.0      0.00      8.10     99.00     99.00
 9   1 28  12     15.0 1     0.0      0.00      9.50     99.00     99.00
 9   1 28  13     15.0 1   288.0      0.50     10.60     99.00     99.00
 9   1 28  14     15.0 1   315.0      0.50     11.60     99.00     99.00
 9   1 28  15     15.0 1   341.0      1.00     12.00     99.00     99.00
 9   1 28  16     15.0 1   352.0      1.50     12.00     99.00     99.00
 9   1 28  17     15.0 1    21.0      1.50     11.40     99.00     99.00
 9   1 28  18     15.0 1    58.0      1.50     10.40     99.00     99.00
 9   1 28  19     15.0 1    88.0      1.00      9.10     99.00     99.00
 9   1 28  20     15.0 1   120.0      0.50      8.10     99.00     99.00
 9   1 28  21     15.0 1     0.0      0.00      7.10     99.00     99.00
 9   1 28  22     15.0 1    91.0      0.50      6.30     99.00     99.00
 9   1 28  23     15.0 1    98.0      0.50      5.50     99.00     99.00
 9   1 28  24     15.0 1   108.0      0.50      4.90     99.00     99.00
 9   1 29   1     15.0 1     0.0      0.00      4.40     99.00     99.00
 9   1 29   2     15.0 1     0.0      0.00      4.10     99.00     99.00
 9   1 29   3     15.0 1   285.0      0.50      3.90     99.00     99.00
 9   1 29   4     15.0 1   281.0      1.00      3.90     99.00     99.00
 9   1 29   5     15.0 1   278.0      1.00      3.60     99.00     99.00
 9   1 29   6     15.0 1   284.0      1.50      3.50     99.00     99.00
 9   1 29   7     15.0 1   293.0      1.50      3.30     99.00     99.00
 9   1 29   8     15.0 1   294.0      1.50      3.30     99.00     99.00
 9   1 29   9     15.0 1   313.0      2.10      5.60     99.00     99.00
 9   1 29  10     15.0 1   309.0      1.50      7.60     99.00     99.00
 9   1 29  11     15.0 1   333.0      1.00      9.80     99.00     99.00
 9   1 29  12     15.0 1   340.0      1.00     11.90     99.00     99.00
 9   1 29  13     15.0 1   343.0      1.50     13.60     99.00     99.00
 9   1 29  14     15.0 1   351.0      1.50     14.90     99.00     99.00
 9   1 29  15     15.0 1     5.0      2.10     15.30     99.00     99.00
 9   1 29  16     15.0 1    24.0      2.10     15.10     99.00     99.00
 9   1 29  17     15.0 1    40.0      2.10     14.30     99.00     99.00
 9   1 29  18     15.0 1    57.0      1.50     13.00     99.00     99.00
 9   1 29  19     15.0 1     0.0      0.00     11.60     99.00     99.00
 9   1 29  20     15.0 1     0.0      0.00     10.40     99.00     99.00
 9   1 29  21     15.0 1    69.0      0.50      9.80     99.00     99.00
 9   1 29  22     15.0 1    82.0      1.50      8.90     99.00     99.00
 9   1 29  23     15.0 1    84.0      2.10      8.00     99.00     99.00
 9   1 29  24     15.0 1    68.0      2.10      7.30     99.00     99.00
 9   1 30   1     15.0 1    55.0      2.10      6.90     99.00     99.00
 9   1 30   2     15.0 1    32.0      2.10      6.40     99.00     99.00
 9   1 30   3     15.0 1    17.0      1.50      5.90     99.00     99.00
 9   1 30   4     15.0 1     0.0      0.00      5.50     99.00     99.00
 9   1 30   5     15.0 1   350.0      1.50      5.00     99.00     99.00
 9   1 30   6     15.0 1   348.0      1.50      4.60     99.00     99.00
 9   1 30   7     15.0 1   352.0      1.00      4.40     99.00     99.00
 9   1 30   8     15.0 1     0.0      0.00      4.50     99.00     99.00
 9   1 30   9     15.0 1     0.0      0.00      7.00     99.00     99.00
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 9   1 30 10     15.0 1   292.0      1.00     10.50     99.00     99.00
 9   1 30 11     15.0 1   312.0      0.50     12.50     99.00     99.00
 9   1 30 12     15.0 1   309.0      1.00     14.40     99.00     99.00
 9   1 30 13     15.0 1   324.0      1.00     15.40     99.00     99.00
 9   1 30 14     15.0 1   310.0      1.00     16.10     99.00     99.00
 9   1 30 15     15.0 1   328.0      1.50     16.60     99.00     99.00
 9   1 30 16     15.0 1    13.0      1.50     17.80     99.00     99.00
 9   1 30 17     15.0 1    32.0      2.10     17.00     99.00     99.00
 9   1 30 18     15.0 1    31.0      1.50     15.80     99.00     99.00
 9   1 30 19     15.0 1     0.0      0.00     14.40     99.00     99.00
 9   1 30 20     15.0 1     0.0      0.00     13.10     99.00     99.00
 9   1 30 21     15.0 1    18.0      0.50     12.10     99.00     99.00
 9   1 30 22     15.0 1   341.0      1.50     11.10     99.00     99.00
 9   1 30 23     15.0 1   321.0      2.10     10.50     99.00     99.00
 9   1 30 24     15.0 1   308.0      2.60     10.10     99.00     99.00
 9   1 31  1     15.0 1   314.0      2.10      9.80     99.00     99.00
 9   1 31  2     15.0 1   308.0      2.10      9.30     99.00     99.00
 9   1 31  3     15.0 1   312.0      2.10      8.60     99.00     99.00
 9   1 31  4     15.0 1   301.0      2.10      8.10     99.00     99.00
 9   1 31  5     15.0 1   303.0      1.50      7.60     99.00     99.00
 9   1 31  6     15.0 1   287.0      1.00      7.10     99.00     99.00
 9   1 31  7     15.0 1   285.0      0.50      6.80     99.00     99.00
 9   1 31  8     15.0 1   282.0      0.50      6.60     99.00     99.00
 9   1 31  9     15.0 1   306.0      1.00      8.60     99.00     99.00
 9   1 31 10     15.0 1   304.0      0.50     10.50     99.00     99.00
 9   1 31 11     15.0 1   298.0      0.50     12.60     99.00     99.00
 9   1 31 12     15.0 1   296.0      1.00     14.30     99.00     99.00
 9   1 31 13     15.0 1   307.0      1.00     15.50     99.00     99.00
 9   1 31 14     15.0 1   324.0      1.50     16.30     99.00     99.00
 9   1 31 15     15.0 1   329.0      1.50     16.60     99.00     99.00
 9   1 31 16     15.0 1   336.0      1.50     16.60     99.00     99.00
 9   1 31 17     15.0 1   348.0      1.50     16.00     99.00     99.00
 9   1 31 18     15.0 1   349.0      0.50     14.80     99.00     99.00
 9   1 31 19     15.0 1     0.0      0.00     13.40     99.00     99.00
 9   1 31 20     15.0 1     0.0      0.00     12.10     99.00     99.00
 9   1 31 21     15.0 1     0.0      0.00     11.10     99.00     99.00
 9   1 31 22     15.0 1     0.0      0.00     10.10     99.00     99.00
 9   1 31 23     15.0 1     0.0      0.00      9.30     99.00     99.00
 9   1 31 24     15.0 1     0.0      0.00      8.60     99.00     99.00
 9   2  1  1     15.0 1     0.0      0.00      8.10     99.00     99.00
 9   2  1  2     15.0 1     0.0      0.00      7.60     99.00     99.00
 9   2  1  3     15.0 1   297.0      0.50      7.10     99.00     99.00
 9   2  1  4     15.0 1   289.0      1.00      7.10     99.00     99.00
 9   2  1  5     15.0 1   277.0      1.50      6.90     99.00     99.00
 9   2  1  6     15.0 1   256.0      1.50      6.80     99.00     99.00
 9   2  1  7     15.0 1   239.0      1.50      6.60     99.00     99.00
 9   2  1  8     15.0 1   226.0      1.50      6.80     99.00     99.00
 9   2  1  9     15.0 1   290.0      1.50      9.40     99.00     99.00
 9   2  1 10     15.0 1   284.0      1.00     11.00     99.00     99.00
 9   2  1 11     15.0 1   266.0      1.50     12.90     99.00     99.00
 9   2  1 12     15.0 1   276.0      2.10     14.30     99.00     99.00
 9   2  1 13     15.0 1   304.0      2.10     15.40     99.00     99.00
 9   2  1 14     15.0 1   329.0      2.10     16.10     99.00     99.00
 9   2  1 15     15.0 1   346.0      2.10     16.60     99.00     99.00
 9   2  1 16     15.0 1     6.0      2.10     16.50     99.00     99.00
 9   2  1 17     15.0 1    28.0      2.10     15.80     99.00     99.00
 9   2  1 18     15.0 1    52.0      1.50     14.60     99.00     99.00
 9   2  1 19     15.0 1    46.0      0.50     13.50     99.00     99.00
 9   2  1 20     15.0 1    79.0      0.50     12.50     99.00     99.00
 9   2  1 21     15.0 1    25.0      1.00     11.60     99.00     99.00
 9   2  1 22     15.0 1    22.0      2.60     10.60     99.00     99.00
 9   2  1 23     15.0 1    21.0      3.60     10.10     99.00     99.00
 9   2  1 24     15.0 1    22.0      3.10      9.90     99.00     99.00
 9   2  2  1     15.0 1    12.0      2.60      9.50     99.00     99.00
 9   2  2  2     15.0 1   345.0      1.50      9.10     99.00     99.00
 9   2  2  3     15.0 1   283.0      1.50      8.60     99.00     99.00
 9   2  2  4     15.0 1   305.0      1.50      8.30     99.00     99.00
 9   2  2  5     15.0 1   329.0      1.00      7.80     99.00     99.00
 9   2  2  6     15.0 1    13.0      0.50      7.30     99.00     99.00
 9   2  2  7     15.0 1     6.0      0.50      6.90     99.00     99.00
 9   2  2  8     15.0 1   336.0      0.50      6.90     99.00     99.00
 9   2  2  9     15.0 1   315.0      1.00      9.80     99.00     99.00
 9   2  2 10     15.0 1   316.0      1.50     12.10     99.00     99.00
 9   2  2 11     15.0 1   331.0      1.50     14.40     99.00     99.00
 9   2  2 12     15.0 1   336.0      1.50     16.10     99.00     99.00
 9   2  2 13     15.0 1   353.0      1.50     17.90     99.00     99.00
 9   2  2 14     15.0 1   356.0      1.50     18.90     99.00     99.00
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```
 9  2  2 15    15.0 1    12.0     2.10    19.30    99.00    99.00
 9  2  2 16    15.0 1    20.0     2.60    18.90    99.00    99.00
 9  2  2 17    15.0 1    28.0     3.10    18.00    99.00    99.00
 9  2  2 18    15.0 1    44.0     2.60    16.60    99.00    99.00
 9  2  2 19    15.0 1    38.0     1.50    15.40    99.00    99.00
 9  2  2 20    15.0 1     0.0     0.00    14.00    99.00    99.00
 9  2  2 21    15.0 1     0.0     0.00    12.80    99.00    99.00
 9  2  2 22    15.0 1    40.0     0.50    11.80    99.00    99.00
 9  2  2 23    15.0 1    29.0     1.00    11.10    99.00    99.00
 9  2  2 24    15.0 1    13.0     1.00    10.60    99.00    99.00
 9  2  3  1    15.0 1   331.0     1.50    10.30    99.00    99.00
 9  2  3  2    15.0 1   335.0     1.50     9.90    99.00    99.00
 9  2  3  3    15.0 1   316.0     2.10     9.60    99.00    99.00
 9  2  3  4    15.0 1   328.0     2.10     9.10    99.00    99.00
 9  2  3  5    15.0 1   336.0     1.50     8.60    99.00    99.00
 9  2  3  6    15.0 1   336.0     0.50     8.30    99.00    99.00
 9  2  3  7    15.0 1     0.0     0.00     8.00    99.00    99.00
 9  2  3  8    15.0 1   252.0     0.50     8.00    99.00    99.00
 9  2  3  9    15.0 1   304.0     1.50    10.60    99.00    99.00
 9  2  3 10    15.0 1   303.0     1.50    12.80    99.00    99.00
 9  2  3 11    15.0 1   315.0     1.50    14.90    99.00    99.00
 9  2  3 12    15.0 1   340.0     1.50    17.10    99.00    99.00
 9  2  3 13    15.0 1   348.0     2.10    18.50    99.00    99.00
 9  2  3 14    15.0 1   358.0     2.10    19.60    99.00    99.00
 9  2  3 15    15.0 1     0.0     0.00    20.10    99.00    99.00
 9  2  3 16    15.0 1     7.0     3.10    19.50    99.00    99.00
 9  2  3 17    15.0 1    27.0     3.60    18.50    99.00    99.00
 9  2  3 18    15.0 1    45.0     3.10    17.30    99.00    99.00
 9  2  3 19    15.0 1    56.0     2.10    16.50    99.00    99.00
 9  2  3 20    15.0 1   122.0     1.50    15.80    99.00    99.00
 9  2  3 21    15.0 1   153.0     1.50    15.00    99.00    99.00
 9  2  3 22    15.0 1   128.0     1.50    14.30    99.00    99.00
 9  2  3 23    15.0 1    73.0     1.00    13.30    99.00    99.00
 9  2  3 24    15.0 1    45.0     2.10    12.10    99.00    99.00
 9  2  4  1    15.0 1    17.0     3.10    11.40    99.00    99.00
 9  2  4  2    15.0 1    17.0     3.10    10.60    99.00    99.00
 9  2  4  3    15.0 1     6.0     2.60    10.10    99.00    99.00
 9  2  4  4    15.0 1    15.0     2.10     9.60    99.00    99.00
 9  2  4  5    15.0 1    12.0     2.10     9.10    99.00    99.00
 9  2  4  6    15.0 1     8.0     1.50     8.80    99.00    99.00
 9  2  4  7    15.0 1     7.0     1.50     8.40    99.00    99.00
 9  2  4  8    15.0 1     9.0     1.50     8.30    99.00    99.00
 9  2  4  9    15.0 1    14.0     1.50     9.40    99.00    99.00
 9  2  4 10    15.0 1   336.0     1.50    12.50    99.00    99.00
 9  2  4 11    15.0 1   345.0     1.50    14.00    99.00    99.00
 9  2  4 12    15.0 1   333.0     1.50    15.50    99.00    99.00
 9  2  4 13    15.0 1   353.0     2.10    16.60    99.00    99.00
 9  2  4 14    15.0 1     7.0     2.60    17.30    99.00    99.00
 9  2  4 15    15.0 1    25.0     2.60    17.40    99.00    99.00
 9  2  4 16    15.0 1    22.0     3.60    18.40    99.00    99.00
 9  2  4 17    15.0 1    36.0     2.60    18.10    99.00    99.00
 9  2  4 18    15.0 1   132.0     3.60    18.00    99.00    99.00
 9  2  4 19    15.0 1   145.0     5.10    17.00    99.00    99.00
 9  2  4 20    15.0 1   144.0     5.10    16.30    99.00    99.00
 9  2  4 21    15.0 1   146.0     5.10    16.10    99.00    99.00
 9  2  4 22    15.0 1   154.0     4.10    16.10    99.00    99.00
 9  2  4 23    15.0 1   162.0     3.10    15.80    99.00    99.00
 9  2  4 24    15.0 1   168.0     2.10    15.10    99.00    99.00
 9  2  5  1    15.0 1     0.0     0.00    14.50    99.00    99.00
 9  2  5  2    15.0 1   329.0     0.50    14.00    99.00    99.00
 9  2  5  3    15.0 1   272.0     0.50    13.60    99.00    99.00
 9  2  5  4    15.0 1    32.0     1.00    12.90    99.00    99.00
 9  2  5  5    15.0 1    39.0     2.60    11.80    99.00    99.00
 9  2  5  6    15.0 1    46.0     3.60    11.00    99.00    99.00
 9  2  5  7    15.0 1    49.0     3.60    10.60    99.00    99.00
 9  2  5  8    15.0 1    58.0     3.10    10.60    99.00    99.00
 9  2  5  9    15.0 1    70.0     1.00    13.10    99.00    99.00
 9  2  5 10    15.0 1     0.0     0.00    15.60    99.00    99.00
 9  2  5 11    15.0 1   212.0     0.50    17.30    99.00    99.00
 9  2  5 12    15.0 1   192.0     1.50    18.50    99.00    99.00
 9  2  5 13    15.0 1   195.0     2.10    19.30    99.00    99.00
 9  2  5 14    15.0 1   206.0     3.10    19.60    99.00    99.00
 9  2  5 15    15.0 1   254.0     2.10    18.90    99.00    99.00
 9  2  5 16    15.0 1   355.0     2.10    17.60    99.00    99.00
 9  2  5 17    15.0 1    13.0     4.10    15.40    99.00    99.00
 9  2  5 18    15.0 1    37.0     3.60    14.10    99.00    99.00
 9  2  5 19    15.0 1    55.0     3.10    13.60    99.00    99.00
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 9  2  5 20    15.0 1    52.0     2.60    13.40    99.00    99.00
 9  2  5 21    15.0 1    59.0     1.50    13.10    99.00    99.00
 9  2  5 22    15.0 1   102.0     0.50    13.10    99.00    99.00
 9  2  5 23    15.0 1   234.0     0.50    13.00    99.00    99.00
 9  2  5 24    15.0 1   237.0     1.00    12.60    99.00    99.00
 9  2  6  1    15.0 1   248.0     1.00    12.10    99.00    99.00
 9  2  6  2    15.0 1   293.0     0.50    11.60    99.00    99.00
 9  2  6  3    15.0 1    60.0     0.50    11.10    99.00    99.00
 9  2  6  4    15.0 1    66.0     1.00    10.60    99.00    99.00
 9  2  6  5    15.0 1    68.0     1.50    10.00    99.00    99.00
 9  2  6  6    15.0 1    67.0     2.60     9.00    99.00    99.00
 9  2  6  7    15.0 1   104.0     2.60     8.80    99.00    99.00
 9  2  6  8    15.0 1   109.0     3.60     9.50    99.00    99.00
 9  2  6  9    15.0 1   124.0     4.10    12.60    99.00    99.00
 9  2  6 10    15.0 1   128.0     3.10    14.60    99.00    99.00
 9  2  6 11    15.0 1   148.0     2.10    16.30    99.00    99.00
 9  2  6 12    15.0 1   156.0     2.10    17.40    99.00    99.00
 9  2  6 13    15.0 1   194.0     3.60    17.80    99.00    99.00
 9  2  6 14    15.0 1   199.0     3.10    17.60    99.00    99.00
 9  2  6 15    15.0 1   235.0     2.60    16.10    99.00    99.00
 9  2  6 16    15.0 1   322.0     1.50    14.40    99.00    99.00
 9  2  6 17    15.0 1   342.0     2.60    13.80    99.00    99.00
 9  2  6 18    15.0 1     2.0     2.60    13.50    99.00    99.00
 9  2  6 19    15.0 1    28.0     2.60    13.40    99.00    99.00
 9  2  6 20    15.0 1    81.0     2.10    13.60    99.00    99.00
 9  2  6 21    15.0 1   119.0     2.10    13.60    99.00    99.00
 9  2  6 22    15.0 1   122.0     2.60    13.10    99.00    99.00
 9  2  6 23    15.0 1   117.0     1.50    12.80    99.00    99.00
 9  2  6 24    15.0 1   117.0     1.00    12.60    99.00    99.00
 9  2  7  1    15.0 1    88.0     2.10    12.40    99.00    99.00
 9  2  7  2    15.0 1    95.0     3.60    12.00    99.00    99.00
 9  2  7  3    15.0 1   104.0     3.10    11.60    99.00    99.00
 9  2  7  4    15.0 1   108.0     1.50    11.10    99.00    99.00
 9  2  7  5    15.0 1    91.0     0.50    10.60    99.00    99.00
 9  2  7  6    15.0 1     0.0     0.00    10.50    99.00    99.00
 9  2  7  7    15.0 1     0.0     0.00    10.50    99.00    99.00
 9  2  7  8    15.0 1     0.0     0.00    10.40    99.00    99.00
 9  2  7  9    15.0 1    34.0     0.50    10.30    99.00    99.00
 9  2  7 10    15.0 1   153.0     2.10    10.60    99.00    99.00
 9  2  7 11    15.0 1   138.0     2.10    11.00    99.00    99.00
 9  2  7 12    15.0 1     0.0     0.00    11.00    99.00    99.00
 9  2  7 13    15.0 1     0.0     0.00    11.30    99.00    99.00
 9  2  7 14    15.0 1     0.0     0.00    12.00    99.00    99.00
 9  2  7 15    15.0 1    11.0     1.00    12.40    99.00    99.00
 9  2  7 16    15.0 1   351.0     1.00    12.50    99.00    99.00
 9  2  7 17    15.0 1   334.0     1.00    12.10    99.00    99.00
 9  2  7 18    15.0 1   303.0     0.50    11.80    99.00    99.00
 9  2  7 19    15.0 1   318.0     0.50    11.30    99.00    99.00
 9  2  7 20    15.0 1     0.0     0.00    11.00    99.00    99.00
 9  2  7 21    15.0 1   330.0     0.50    10.80    99.00    99.00
 9  2  7 22    15.0 1   315.0     0.50    10.50    99.00    99.00
 9  2  7 23    15.0 1   293.0     1.50    10.30    99.00    99.00
 9  2  7 24    15.0 1     0.0     0.00    10.10    99.00    99.00
 9  2  8  1    15.0 1   200.0     0.50     9.80    99.00    99.00
 9  2  8  2    15.0 1     0.0     0.00     9.10    99.00    99.00
 9  2  8  3    15.0 1    85.0     1.50     8.40    99.00    99.00
 9  2  8  4    15.0 1    31.0     0.50     7.80    99.00    99.00
 9  2  8  5    15.0 1   250.0     0.50     7.10    99.00    99.00
 9  2  8  6    15.0 1   222.0     0.50     5.80    99.00    99.00
 9  2  8  7    15.0 1   211.0     0.50     5.60    99.00    99.00
 9  2  8  8    15.0 1   195.0     1.00     6.50    99.00    99.00
 9  2  8  9    15.0 1   231.0     1.50     9.10    99.00    99.00
 9  2  8 10    15.0 1   214.0     1.00    11.10    99.00    99.00
 9  2  8 11    15.0 1   206.0     0.50    12.50    99.00    99.00
 9  2  8 12    15.0 1   233.0     0.50    13.60    99.00    99.00
 9  2  8 13    15.0 1     0.0     0.00    14.30    99.00    99.00
 9  2  8 14    15.0 1     0.0     0.00    14.80    99.00    99.00
 9  2  8 15    15.0 1   272.0     0.50    15.00    99.00    99.00
 9  2  8 16    15.0 1   273.0     2.60    14.80    99.00    99.00
 9  2  8 17    15.0 1   278.0     3.10    13.80    99.00    99.00
 9  2  8 18    15.0 1   279.0     3.10    13.10    99.00    99.00
 9  2  8 19    15.0 1   265.0     3.10    12.30    99.00    99.00
 9  2  8 20    15.0 1   247.0     3.10    11.80    99.00    99.00
 9  2  8 21    15.0 1   263.0     3.10    11.40    99.00    99.00
 9  2  8 22    15.0 1   249.0     3.10    11.10    99.00    99.00
 9  2  8 23    15.0 1   226.0     2.60    11.10    99.00    99.00
 9  2  8 24    15.0 1   212.0     2.10    11.00    99.00    99.00
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 9  2  9  1    15.0 1   229.0     2.60    10.60    99.00    99.00
 9  2  9  2    15.0 1   254.0     3.10    10.30    99.00    99.00
 9  2  9  3    15.0 1   256.0     4.60    10.30    99.00    99.00
 9  2  9  4    15.0 1   267.0     5.10    10.10    99.00    99.00
 9  2  9  5    15.0 1   281.0     4.60     9.80    99.00    99.00
 9  2  9  6    15.0 1   278.0     4.60     9.40    99.00    99.00
 9  2  9  7    15.0 1   276.0     4.10     9.10    99.00    99.00
 9  2  9  8    15.0 1   277.0     4.10     9.00    99.00    99.00
 9  2  9  9    15.0 1   290.0     6.70     9.80    99.00    99.00
 9  2  9 10    15.0 1   301.0     7.70    10.90    99.00    99.00
 9  2  9 11    15.0 1   311.0     7.20    11.50    99.00    99.00
 9  2  9 12    15.0 1   324.0     6.70    12.10    99.00    99.00
 9  2  9 13    15.0 1   319.0     6.20    12.10    99.00    99.00
 9  2  9 14    15.0 1   316.0     6.20    11.60    99.00    99.00
 9  2  9 15    15.0 1   317.0     6.20    11.40    99.00    99.00
 9  2  9 16    15.0 1   298.0     4.60    10.80    99.00    99.00
 9  2  9 17    15.0 1   312.0     4.60     9.80    99.00    99.00
 9  2  9 18    15.0 1   317.0     5.10     8.80    99.00    99.00
 9  2  9 19    15.0 1   327.0     5.10     7.80    99.00    99.00
 9  2  9 20    15.0 1   329.0     4.60     7.10    99.00    99.00
 9  2  9 21    15.0 1   326.0     4.10     6.80    99.00    99.00
 9  2  9 22    15.0 1   325.0     3.60     6.00    99.00    99.00
 9  2  9 23    15.0 1   305.0     3.10     5.30    99.00    99.00
 9  2  9 24    15.0 1   291.0     2.10     4.60    99.00    99.00
 9  2 10  1    15.0 1   255.0     0.50     4.40    99.00    99.00
 9  2 10  2    15.0 1     0.0     0.00     4.10    99.00    99.00
 9  2 10  3    15.0 1   290.0     0.50     3.60    99.00    99.00
 9  2 10  4    15.0 1   281.0     1.00     3.10    99.00    99.00
 9  2 10  5    15.0 1   266.0     1.50     2.60    99.00    99.00
 9  2 10  6    15.0 1   285.0     2.60     2.30    99.00    99.00
 9  2 10  7    15.0 1   281.0     3.60     2.00    99.00    99.00
 9  2 10  8    15.0 1   289.0     3.10     2.30    99.00    99.00
 9  2 10  9    15.0 1   317.0     2.10     3.90    99.00    99.00
 9  2 10 10    15.0 1   300.0     0.50     5.30    99.00    99.00
 9  2 10 11    15.0 1     0.0     0.00     6.60    99.00    99.00
 9  2 10 12    15.0 1   282.0     0.50     7.90    99.00    99.00
 9  2 10 13    15.0 1   294.0     1.00     8.80    99.00    99.00
 9  2 10 14    15.0 1   309.0     1.00     9.50    99.00    99.00
 9  2 10 15    15.0 1   323.0     1.50    10.00    99.00    99.00
 9  2 10 16    15.0 1   345.0     1.50    10.10    99.00    99.00
 9  2 10 17    15.0 1   348.0     1.50     9.80    99.00    99.00
 9  2 10 18    15.0 1    24.0     2.10     8.90    99.00    99.00
 9  2 10 19    15.0 1    50.0     2.10     7.80    99.00    99.00
 9  2 10 20    15.0 1    87.0     2.10     6.60    99.00    99.00
 9  2 10 21    15.0 1   135.0     2.60     5.60    99.00    99.00
 9  2 10 22    15.0 1   154.0     3.10     4.80    99.00    99.00
 9  2 10 23    15.0 1   147.0     2.60     4.10    99.00    99.00
 9  2 10 24    15.0 1   151.0     3.10     3.60    99.00    99.00
 9  2 11  1    15.0 1   146.0     3.10     3.10    99.00    99.00
 9  2 11  2    15.0 1   153.0     3.10     3.00    99.00    99.00
 9  2 11  3    15.0 1   144.0     3.10     3.10    99.00    99.00
 9  2 11  4    15.0 1   142.0     3.10     3.40    99.00    99.00
 9  2 11  5    15.0 1   137.0     3.10     3.60    99.00    99.00
 9  2 11  6    15.0 1   126.0     3.10     3.60    99.00    99.00
 9  2 11  7    15.0 1   133.0     3.10     3.60    99.00    99.00
 9  2 11  8    15.0 1   128.0     2.60     4.00    99.00    99.00
 9  2 11  9    15.0 1   143.0     2.10     5.50    99.00    99.00
 9  2 11 10    15.0 1   145.0     1.00     6.90    99.00    99.00
 9  2 11 11    15.0 1   131.0     0.50     8.50    99.00    99.00
 9  2 11 12    15.0 1     0.0     0.00    10.60    99.00    99.00
 9  2 11 13    15.0 1     0.0     0.00    11.80    99.00    99.00
 9  2 11 14    15.0 1     0.0     0.00    12.60    99.00    99.00
 9  2 11 15    15.0 1   295.0     0.50    13.10    99.00    99.00
 9  2 11 16    15.0 1   325.0     0.50    13.30    99.00    99.00
 9  2 11 17    15.0 1    64.0     0.50    13.00    99.00    99.00
 9  2 11 18    15.0 1   217.0     0.50    12.00    99.00    99.00
 9  2 11 19    15.0 1   271.0     1.50    11.30    99.00    99.00
 9  2 11 20    15.0 1   263.0     2.60    10.80    99.00    99.00
 9  2 11 21    15.0 1   261.0     4.10     9.00    99.00    99.00
 9  2 11 22    15.0 1   256.0     4.10     7.60    99.00    99.00
 9  2 11 23    15.0 1   256.0     3.10     7.00    99.00    99.00
 9  2 11 24    15.0 1   254.0     1.50     6.90    99.00    99.00
 9  2 12  1    15.0 1   179.0     0.50     7.10    99.00    99.00
 9  2 12  2    15.0 1   129.0     1.00     7.30    99.00    99.00
 9  2 12  3    15.0 1   274.0     0.50     7.30    99.00    99.00
 9  2 12  4    15.0 1   291.0     3.10     6.60    99.00    99.00
 9  2 12  5    15.0 1   289.0     4.10     5.30    99.00    99.00
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9	2	12	6	15.0	1	292.0	3.60	4.60	99.00	99.00
9	2	12	7	15.0	1	303.0	3.10	4.30	99.00	99.00
9	2	12	8	15.0	1	302.0	3.10	5.10	99.00	99.00
9	2	12	9	15.0	1	316.0	3.10	6.80	99.00	99.00
9	2	12	10	15.0	1	332.0	2.60	8.50	99.00	99.00
9	2	12	11	15.0	1	325.0	3.10	9.10	99.00	99.00
9	2	12	12	15.0	1	317.0	3.60	9.50	99.00	99.00
9	2	12	13	15.0	1	318.0	3.10	10.40	99.00	99.00
9	2	12	14	15.0	1	331.0	2.60	11.10	99.00	99.00
9	2	12	15	15.0	1	338.0	2.60	11.40	99.00	99.00
9	2	12	16	15.0	1	354.0	2.60	11.40	99.00	99.00
9	2	12	17	15.0	1	358.0	1.50	11.10	99.00	99.00
9	2	12	18	15.0	1	12.0	1.00	10.30	99.00	99.00
9	2	12	19	15.0	1	35.0	0.50	9.30	99.00	99.00
9	2	12	20	15.0	1	0.0	0.00	8.00	99.00	99.00
9	2	12	21	15.0	1	142.0	1.00	6.60	99.00	99.00
9	2	12	22	15.0	1	135.0	2.10	5.90	99.00	99.00
9	2	12	23	15.0	1	128.0	2.60	5.60	99.00	99.00
9	2	12	24	15.0	1	145.0	2.60	5.60	99.00	99.00
9	2	13	1	15.0	1	154.0	2.60	5.90	99.00	99.00
9	2	13	2	15.0	1	165.0	3.10	5.90	99.00	99.00
9	2	13	3	15.0	1	159.0	3.10	6.00	99.00	99.00
9	2	13	4	15.0	1	147.0	3.10	6.00	99.00	99.00
9	2	13	5	15.0	1	144.0	3.10	6.00	99.00	99.00
9	2	13	6	15.0	1	142.0	3.60	6.00	99.00	99.00
9	2	13	7	15.0	1	137.0	4.10	6.10	99.00	99.00
9	2	13	8	15.0	1	150.0	4.10	6.10	99.00	99.00
9	2	13	9	15.0	1	139.0	4.10	6.30	99.00	99.00
9	2	13	10	15.0	1	121.0	4.60	6.60	99.00	99.00
9	2	13	11	15.0	1	114.0	4.10	7.10	99.00	99.00
9	2	13	12	15.0	1	111.0	3.60	7.40	99.00	99.00
9	2	13	13	15.0	1	109.0	4.10	8.00	99.00	99.00
9	2	13	14	15.0	1	107.0	3.60	8.90	99.00	99.00
9	2	13	15	15.0	1	120.0	3.10	9.30	99.00	99.00
9	2	13	16	15.0	1	129.0	4.10	9.30	99.00	99.00
9	2	13	17	15.0	1	150.0	4.60	9.10	99.00	99.00
9	2	13	18	15.0	1	165.0	4.10	8.90	99.00	99.00
9	2	13	19	15.0	1	194.0	3.10	9.00	99.00	99.00
9	2	13	20	15.0	1	216.0	2.60	8.60	99.00	99.00
9	2	13	21	15.0	1	229.0	2.10	8.00	99.00	99.00
9	2	13	22	15.0	1	199.0	1.00	7.50	99.00	99.00
9	2	13	23	15.0	1	148.0	1.00	7.40	99.00	99.00
9	2	13	24	15.0	1	156.0	0.50	7.60	99.00	99.00
9	2	14	1	15.0	1	120.0	0.50	7.60	99.00	99.00
9	2	14	2	15.0	1	92.0	0.50	7.50	99.00	99.00
9	2	14	3	15.0	1	0.0	0.00	7.30	99.00	99.00
9	2	14	4	15.0	1	266.0	0.50	7.00	99.00	99.00
9	2	14	5	15.0	1	278.0	1.50	6.60	99.00	99.00
9	2	14	6	15.0	1	275.0	3.60	5.60	99.00	99.00
9	2	14	7	15.0	1	270.0	3.60	4.40	99.00	99.00
9	2	14	8	15.0	1	284.0	2.60	4.90	99.00	99.00
9	2	14	9	15.0	1	283.0	1.50	6.40	99.00	99.00
9	2	14	10	15.0	1	0.0	0.00	8.30	99.00	99.00
9	2	14	11	15.0	1	158.0	1.00	9.60	99.00	99.00
9	2	14	12	15.0	1	174.0	1.00	10.60	99.00	99.00
9	2	14	13	15.0	1	192.0	0.50	11.60	99.00	99.00
9	2	14	14	15.0	1	217.0	0.50	12.30	99.00	99.00
9	2	14	15	15.0	1	0.0	0.00	12.80	99.00	99.00
9	2	14	16	15.0	1	0.0	0.00	13.10	99.00	99.00
9	2	14	17	15.0	1	0.0	0.00	12.90	99.00	99.00
9	2	14	18	15.0	1	0.0	0.00	12.10	99.00	99.00
9	2	14	19	15.0	1	229.0	1.00	11.30	99.00	99.00
9	2	14	20	15.0	1	237.0	0.50	10.60	99.00	99.00
9	2	14	21	15.0	1	101.0	1.00	10.10	99.00	99.00
9	2	14	22	15.0	1	108.0	3.10	9.50	99.00	99.00
9	2	14	23	15.0	1	118.0	3.60	8.80	99.00	99.00
9	2	14	24	15.0	1	133.0	3.60	8.40	99.00	99.00
9	2	15	1	15.0	1	133.0	4.10	8.10	99.00	99.00
9	2	15	2	15.0	1	142.0	4.10	8.00	99.00	99.00
9	2	15	3	15.0	1	142.0	4.10	7.90	99.00	99.00
9	2	15	4	15.0	1	130.0	4.60	7.90	99.00	99.00
9	2	15	5	15.0	1	128.0	5.10	8.00	99.00	99.00
9	2	15	6	15.0	1	127.0	5.70	8.10	99.00	99.00
9	2	15	7	15.0	1	131.0	5.70	8.30	99.00	99.00
9	2	15	8	15.0	1	134.0	6.20	8.60	99.00	99.00
9	2	15	9	15.0	1	126.0	6.20	9.90	99.00	99.00
9	2	15	10	15.0	1	128.0	5.10	11.40	99.00	99.00

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 9  2 15 11     15.0 1   136.0      4.60     12.80     99.00     99.00
 9  2 15 12     15.0 1   135.0      5.10     13.80     99.00     99.00
 9  2 15 13     15.0 1   138.0      6.20     14.10     99.00     99.00
 9  2 15 14     15.0 1   142.0      7.20     13.90     99.00     99.00
 9  2 15 15     15.0 1   128.0      7.70     13.50     99.00     99.00
 9  2 15 16     15.0 1   126.0      8.70     12.60     99.00     99.00
 9  2 15 17     15.0 1   134.0      9.30     11.60     99.00     99.00
 9  2 15 18     15.0 1   126.0      9.30     11.40     99.00     99.00
 9  2 15 19     15.0 1   126.0      9.80     11.10     99.00     99.00
 9  2 15 20     15.0 1   135.0      9.80     11.10     99.00     99.00
 9  2 15 21     15.0 1   131.0      9.80     11.10     99.00     99.00
 9  2 15 22     15.0 1   134.0     10.30     11.10     99.00     99.00
 9  2 15 23     15.0 1   130.0      9.80     11.10     99.00     99.00
 9  2 15 24     15.0 1   134.0      9.80     11.10     99.00     99.00
 9  2 16  1     15.0 1   135.0      9.30     11.30     99.00     99.00
 9  2 16  2     15.0 1   131.0      8.70     11.30     99.00     99.00
 9  2 16  3     15.0 1   132.0      8.70     11.40     99.00     99.00
 9  2 16  4     15.0 1   134.0      8.20     11.50     99.00     99.00
 9  2 16  5     15.0 1   121.0      7.70     11.60     99.00     99.00
 9  2 16  6     15.0 1   119.0      6.70     11.60     99.00     99.00
 9  2 16  7     15.0 1   135.0      6.20     11.60     99.00     99.00
 9  2 16  8     15.0 1   130.0      5.10     11.90     99.00     99.00
 9  2 16  9     15.0 1   138.0      4.60     12.80     99.00     99.00
 9  2 16 10     15.0 1   154.0      3.60     14.80     99.00     99.00
 9  2 16 11     15.0 1   205.0      6.20     16.40     99.00     99.00
 9  2 16 12     15.0 1   222.0      6.70     16.10     99.00     99.00
 9  2 16 13     15.0 1   233.0      6.70     15.90     99.00     99.00
 9  2 16 14     15.0 1   245.0      5.70     15.40     99.00     99.00
 9  2 16 15     15.0 1   236.0      3.60     14.80     99.00     99.00
 9  2 16 16     15.0 1   230.0      3.10     14.00     99.00     99.00
 9  2 16 17     15.0 1   222.0      3.10     13.10     99.00     99.00
 9  2 16 18     15.0 1   199.0      3.10     12.90     99.00     99.00
 9  2 16 19     15.0 1   192.0      3.10     12.40     99.00     99.00
 9  2 16 20     15.0 1   184.0      3.10     11.60     99.00     99.00
 9  2 16 21     15.0 1   184.0      3.60     11.00     99.00     99.00
 9  2 16 22     15.0 1   179.0      3.10     10.60     99.00     99.00
 9  2 16 23     15.0 1   181.0      3.10     10.40     99.00     99.00
 9  2 16 24     15.0 1   184.0      3.10     10.10     99.00     99.00
 9  2 17  1     15.0 1   176.0      3.60      9.80     99.00     99.00
 9  2 17  2     15.0 1   172.0      3.10      9.50     99.00     99.00
 9  2 17  3     15.0 1   161.0      3.10      9.10     99.00     99.00
 9  2 17  4     15.0 1   154.0      3.10      9.00     99.00     99.00
 9  2 17  5     15.0 1   151.0      3.60      8.90     99.00     99.00
 9  2 17  6     15.0 1   137.0      3.60      8.80     99.00     99.00
 9  2 17  7     15.0 1   135.0      4.10      8.60     99.00     99.00
 9  2 17  8     15.0 1   121.0      4.10      8.60     99.00     99.00
 9  2 17  9     15.0 1   118.0      4.60      9.10     99.00     99.00
 9  2 17 10     15.0 1   111.0      4.10     10.10     99.00     99.00
 9  2 17 11     15.0 1   105.0      3.60     10.10     99.00     99.00
 9  2 17 12     15.0 1   104.0      4.10     10.30     99.00     99.00
 9  2 17 13     15.0 1   108.0      3.60     10.60     99.00     99.00
 9  2 17 14     15.0 1   124.0      3.10     10.90     99.00     99.00
 9  2 17 15     15.0 1   134.0      3.10     11.30     99.00     99.00
 9  2 17 16     15.0 1   152.0      3.60     11.40     99.00     99.00
 9  2 17 17     15.0 1   149.0      3.60     11.10     99.00     99.00
 9  2 17 18     15.0 1   139.0      4.10     10.60     99.00     99.00
 9  2 17 19     15.0 1   144.0      4.10     10.30     99.00     99.00
 9  2 17 20     15.0 1   138.0      4.10     10.00     99.00     99.00
 9  2 17 21     15.0 1   140.0      3.10     10.00     99.00     99.00
 9  2 17 22     15.0 1   132.0      3.10     10.00     99.00     99.00
 9  2 17 23     15.0 1   123.0      3.60      9.90     99.00     99.00
 9  2 17 24     15.0 1   116.0      3.60      9.60     99.00     99.00
 9  2 18  1     15.0 1   133.0      3.10      9.50     99.00     99.00
 9  2 18  2     15.0 1   143.0      2.60      9.40     99.00     99.00
 9  2 18  3     15.0 1   143.0      2.10      9.10     99.00     99.00
 9  2 18  4     15.0 1   154.0      0.50      9.00     99.00     99.00
 9  2 18  5     15.0 1     0.0      0.00      8.80     99.00     99.00
 9  2 18  6     15.0 1     0.0      0.00      8.50     99.00     99.00
 9  2 18  7     15.0 1   280.0      0.50      8.10     99.00     99.00
 9  2 18  8     15.0 1   274.0      1.50      7.60     99.00     99.00
 9  2 18  9     15.0 1   278.0      1.50      8.10     99.00     99.00
 9  2 18 10     15.0 1   288.0      1.00      9.30     99.00     99.00
 9  2 18 11     15.0 1   309.0      0.50     10.50     99.00     99.00
 9  2 18 12     15.0 1     0.0      0.00     12.40     99.00     99.00
 9  2 18 13     15.0 1     0.0      0.00     13.90     99.00     99.00
 9  2 18 14     15.0 1     0.0      0.00     14.90     99.00     99.00
 9  2 18 15     15.0 1   341.0      0.50     15.50     99.00     99.00
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 9  2 18 16    15.0 1   356.0     1.50    15.60    99.00    99.00
 9  2 18 17    15.0 1     9.0     2.60    15.10    99.00    99.00
 9  2 18 18    15.0 1    33.0     4.10    13.80    99.00    99.00
 9  2 18 19    15.0 1    50.0     4.10    12.50    99.00    99.00
 9  2 18 20    15.0 1    84.0     4.10    11.90    99.00    99.00
 9  2 18 21    15.0 1   128.0     4.10    11.10    99.00    99.00
 9  2 18 22    15.0 1   173.0     4.60    10.50    99.00    99.00
 9  2 18 23    15.0 1   182.0     4.10    10.00    99.00    99.00
 9  2 18 24    15.0 1   175.0     2.10     9.50    99.00    99.00
 9  2 19  1    15.0 1   109.0     1.00     8.80    99.00    99.00
 9  2 19  2    15.0 1    39.0     1.50     7.60    99.00    99.00
 9  2 19  3    15.0 1    38.0     2.60     6.60    99.00    99.00
 9  2 19  4    15.0 1    36.0     2.60     6.10    99.00    99.00
 9  2 19  5    15.0 1    39.0     2.10     5.90    99.00    99.00
 9  2 19  6    15.0 1    18.0     1.50     4.50    99.00    99.00
 9  2 19  7    15.0 1    20.0     1.50     3.90    99.00    99.00
 9  2 19  8    15.0 1     7.0     1.50     4.40    99.00    99.00
 9  2 19  9    15.0 1   354.0     1.50     6.10    99.00    99.00
 9  2 19 10    15.0 1   341.0     1.50     9.40    99.00    99.00
 9  2 19 11    15.0 1   350.0     2.10    12.50    99.00    99.00
 9  2 19 12    15.0 1   353.0     2.10    14.60    99.00    99.00
 9  2 19 13    15.0 1     2.0     2.60    15.60    99.00    99.00
 9  2 19 14    15.0 1     0.0     0.00    16.30    99.00    99.00
 9  2 19 15    15.0 1     7.0     3.10    16.60    99.00    99.00
 9  2 19 16    15.0 1    17.0     3.60    16.40    99.00    99.00
 9  2 19 17    15.0 1    34.0     3.60    15.10    99.00    99.00
 9  2 19 18    15.0 1    27.0     3.60    14.00    99.00    99.00
 9  2 19 19    15.0 1    12.0     2.60    13.30    99.00    99.00
 9  2 19 20    15.0 1   320.0     2.10    12.60    99.00    99.00
 9  2 19 21    15.0 1   298.0     2.60    11.90    99.00    99.00
 9  2 19 22    15.0 1   299.0     3.60    11.10    99.00    99.00
 9  2 19 23    15.0 1   317.0     3.10    10.30    99.00    99.00
 9  2 19 24    15.0 1   328.0     2.10     9.50    99.00    99.00
 9  2 20  1    15.0 1   348.0     1.50     8.90    99.00    99.00
 9  2 20  2    15.0 1   353.0     1.00     8.40    99.00    99.00
 9  2 20  3    15.0 1   304.0     1.00     7.90    99.00    99.00
 9  2 20  4    15.0 1   281.0     2.10     7.10    99.00    99.00
 9  2 20  5    15.0 1   268.0     2.10     6.60    99.00    99.00
 9  2 20  6    15.0 1   273.0     2.10     6.30    99.00    99.00
 9  2 20  7    15.0 1   272.0     2.10     6.10    99.00    99.00
 9  2 20  8    15.0 1   275.0     1.50     6.10    99.00    99.00
 9  2 20  9    15.0 1   312.0     1.50     7.80    99.00    99.00
 9  2 20 10    15.0 1   307.0     0.50     9.40    99.00    99.00
 9  2 20 11    15.0 1     0.0     0.00    11.50    99.00    99.00
 9  2 20 12    15.0 1   302.0     1.00    12.90    99.00    99.00
 9  2 20 13    15.0 1   298.0     1.00    13.90    99.00    99.00
 9  2 20 14    15.0 1   300.0     1.00    14.60    99.00    99.00
 9  2 20 15    15.0 1   314.0     1.00    15.00    99.00    99.00
 9  2 20 16    15.0 1   326.0     1.00    14.90    99.00    99.00
 9  2 20 17    15.0 1     8.0     0.50    14.40    99.00    99.00
 9  2 20 18    15.0 1     0.0     0.00    13.50    99.00    99.00
 9  2 20 19    15.0 1     0.0     0.00    12.60    99.00    99.00
 9  2 20 20    15.0 1     0.0     0.00    11.80    99.00    99.00
 9  2 20 21    15.0 1     0.0     0.00    11.10    99.00    99.00
 9  2 20 22    15.0 1     0.0     0.00    10.60    99.00    99.00
 9  2 20 23    15.0 1     0.0     0.00    10.10    99.00    99.00
 9  2 20 24    15.0 1     0.0     0.00     9.60    99.00    99.00
 9  2 21  1    15.0 1     0.0     0.00     9.40    99.00    99.00
 9  2 21  2    15.0 1     0.0     0.00     9.10    99.00    99.00
 9  2 21  3    15.0 1   298.0     0.50     9.00    99.00    99.00
 9  2 21  4    15.0 1   288.0     1.00     8.80    99.00    99.00
 9  2 21  5    15.0 1   294.0     1.50     8.60    99.00    99.00
 9  2 21  6    15.0 1   288.0     1.50     8.50    99.00    99.00
 9  2 21  7    15.0 1   294.0     1.50     8.40    99.00    99.00
 9  2 21  8    15.0 1   286.0     1.50     8.40    99.00    99.00
 9  2 21  9    15.0 1   324.0     1.50     9.60    99.00    99.00
 9  2 21 10    15.0 1   306.0     1.50    10.90    99.00    99.00
 9  2 21 11    15.0 1   312.0     1.50    12.10    99.00    99.00
 9  2 21 12    15.0 1   314.0     1.00    13.60    99.00    99.00
 9  2 21 13    15.0 1   311.0     1.00    14.80    99.00    99.00
 9  2 21 14    15.0 1   333.0     1.00    15.30    99.00    99.00
 9  2 21 15    15.0 1     8.0     1.50    15.50    99.00    99.00
 9  2 21 16    15.0 1    38.0     1.50    15.30    99.00    99.00
 9  2 21 17    15.0 1    38.0     1.50    14.90    99.00    99.00
 9  2 21 18    15.0 1    31.0     0.50    14.40    99.00    99.00
 9  2 21 19    15.0 1     0.0     0.00    13.80    99.00    99.00
 9  2 21 20    15.0 1     0.0     0.00    13.40    99.00    99.00
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9	2	21	21	15.0	1	0.0	0.00	13.10	99.00	99.00
9	2	21	22	15.0	1	33.0	0.50	13.00	99.00	99.00
9	2	21	23	15.0	1	302.0	0.50	12.90	99.00	99.00
9	2	21	24	15.0	1	316.0	1.00	12.60	99.00	99.00
9	2	22	1	15.0	1	336.0	1.50	12.40	99.00	99.00
9	2	22	2	15.0	1	350.0	2.10	12.00	99.00	99.00
9	2	22	3	15.0	1	340.0	2.60	11.60	99.00	99.00
9	2	22	4	15.0	1	326.0	3.10	11.40	99.00	99.00
9	2	22	5	15.0	1	334.0	2.60	11.30	99.00	99.00
9	2	22	6	15.0	1	350.0	2.60	11.10	99.00	99.00
9	2	22	7	15.0	1	25.0	3.10	10.90	99.00	99.00
9	2	22	8	15.0	1	50.0	2.60	10.80	99.00	99.00
9	2	22	9	15.0	1	74.0	2.10	11.00	99.00	99.00
9	2	22	10	15.0	1	97.0	2.10	11.60	99.00	99.00
9	2	22	11	15.0	1	134.0	2.60	12.60	99.00	99.00
9	2	22	12	15.0	1	126.0	3.10	13.60	99.00	99.00
9	2	22	13	15.0	1	129.0	3.10	14.80	99.00	99.00
9	2	22	14	15.0	1	144.0	3.10	15.30	99.00	99.00
9	2	22	15	15.0	1	154.0	3.10	15.30	99.00	99.00
9	2	22	16	15.0	1	152.0	3.10	15.00	99.00	99.00
9	2	22	17	15.0	1	153.0	3.10	14.80	99.00	99.00
9	2	22	18	15.0	1	141.0	3.10	14.80	99.00	99.00
9	2	22	19	15.0	1	138.0	3.10	14.80	99.00	99.00
9	2	22	20	15.0	1	136.0	3.10	14.80	99.00	99.00
9	2	22	21	15.0	1	136.0	3.10	14.90	99.00	99.00
9	2	22	22	15.0	1	139.0	3.10	14.90	99.00	99.00
9	2	22	23	15.0	1	145.0	3.10	15.00	99.00	99.00
9	2	22	24	15.0	1	147.0	3.10	15.00	99.00	99.00
9	2	23	1	15.0	1	146.0	3.10	15.00	99.00	99.00
9	2	23	2	15.0	1	148.0	3.10	15.10	99.00	99.00
9	2	23	3	15.0	1	160.0	2.60	15.10	99.00	99.00
9	2	23	4	15.0	1	189.0	2.10	15.10	99.00	99.00
9	2	23	5	15.0	1	251.0	2.10	15.10	99.00	99.00
9	2	23	6	15.0	1	283.0	2.60	15.30	99.00	99.00
9	2	23	7	15.0	1	315.0	2.10	15.10	99.00	99.00
9	2	23	8	15.0	1	351.0	1.00	15.00	99.00	99.00
9	2	23	9	15.0	1	62.0	0.50	14.90	99.00	99.00
9	2	23	10	15.0	1	101.0	0.50	14.80	99.00	99.00
9	2	23	11	15.0	1	89.0	1.00	14.90	99.00	99.00
9	2	23	12	15.0	1	76.0	2.10	15.50	99.00	99.00
9	2	23	13	15.0	1	76.0	2.60	16.40	99.00	99.00
9	2	23	14	15.0	1	95.0	1.50	17.80	99.00	99.00
9	2	23	15	15.0	1	126.0	0.50	18.90	99.00	99.00
9	2	23	16	15.0	1	157.0	0.50	19.10	99.00	99.00
9	2	23	17	15.0	1	126.0	0.50	19.00	99.00	99.00
9	2	23	18	15.0	1	0.0	0.00	18.10	99.00	99.00
9	2	23	19	15.0	1	255.0	0.50	17.10	99.00	99.00
9	2	23	20	15.0	1	262.0	1.50	16.40	99.00	99.00
9	2	23	21	15.0	1	272.0	3.10	15.60	99.00	99.00
9	2	23	22	15.0	1	290.0	4.10	14.00	99.00	99.00
9	2	23	23	15.0	1	288.0	3.60	12.90	99.00	99.00
9	2	23	24	15.0	1	303.0	3.60	12.60	99.00	99.00
9	2	24	1	15.0	1	313.0	3.10	12.60	99.00	99.00
9	2	24	2	15.0	1	332.0	1.50	12.80	99.00	99.00
9	2	24	3	15.0	1	12.0	1.00	12.80	99.00	99.00
9	2	24	4	15.0	1	351.0	0.50	12.60	99.00	99.00
9	2	24	5	15.0	1	304.0	1.00	12.60	99.00	99.00
9	2	24	6	15.0	1	287.0	1.50	12.40	99.00	99.00
9	2	24	7	15.0	1	286.0	1.50	12.30	99.00	99.00
9	2	24	8	15.0	1	289.0	1.50	12.10	99.00	99.00
9	2	24	9	15.0	1	291.0	1.50	12.30	99.00	99.00
9	2	24	10	15.0	1	272.0	0.50	12.60	99.00	99.00
9	2	24	11	15.0	1	230.0	1.00	13.60	99.00	99.00
9	2	24	12	15.0	1	229.0	0.50	15.10	99.00	99.00
9	2	24	13	15.0	1	261.0	0.50	16.60	99.00	99.00
9	2	24	14	15.0	1	275.0	0.50	17.50	99.00	99.00
9	2	24	15	15.0	1	285.0	0.50	18.00	99.00	99.00
9	2	24	16	15.0	1	353.0	0.50	18.60	99.00	99.00
9	2	24	17	15.0	1	22.0	1.50	18.10	99.00	99.00
9	2	24	18	15.0	1	34.0	1.50	17.40	99.00	99.00
9	2	24	19	15.0	1	24.0	1.00	16.50	99.00	99.00
9	2	24	20	15.0	1	354.0	0.50	15.80	99.00	99.00
9	2	24	21	15.0	1	271.0	1.50	15.40	99.00	99.00
9	2	24	22	15.0	1	285.0	3.60	14.90	99.00	99.00
9	2	24	23	15.0	1	287.0	4.10	14.10	99.00	99.00
9	2	24	24	15.0	1	277.0	4.10	13.10	99.00	99.00
9	2	25	1	15.0	1	284.0	3.60	12.60	99.00	99.00

9	2	25	2	15.0	1	295.0	3.10	12.50	99.00	99.00
9	2	25	3	15.0	1	288.0	2.60	12.30	99.00	99.00
9	2	25	4	15.0	1	287.0	3.60	11.50	99.00	99.00
9	2	25	5	15.0	1	295.0	3.60	10.60	99.00	99.00
9	2	25	6	15.0	1	283.0	3.10	10.10	99.00	99.00
9	2	25	7	15.0	1	262.0	2.10	10.00	99.00	99.00
9	2	25	8	15.0	1	263.0	3.60	11.10	99.00	99.00
9	2	25	9	15.0	1	282.0	2.60	12.40	99.00	99.00
9	2	25	10	15.0	1	316.0	1.50	13.30	99.00	99.00
9	2	25	11	15.0	1	0.0	0.00	13.90	99.00	99.00
9	2	25	12	15.0	1	16.0	1.00	14.90	99.00	99.00
9	2	25	13	15.0	1	6.0	1.00	15.80	99.00	99.00
9	2	25	14	15.0	1	0.0	0.00	16.50	99.00	99.00
9	2	25	15	15.0	1	0.0	0.00	17.00	99.00	99.00
9	2	25	16	15.0	1	11.0	2.60	17.00	99.00	99.00
9	2	25	17	15.0	1	28.0	2.60	16.60	99.00	99.00
9	2	25	18	15.0	1	31.0	3.60	15.60	99.00	99.00
9	2	25	19	15.0	1	38.0	3.10	14.60	99.00	99.00
9	2	25	20	15.0	1	27.0	1.00	14.00	99.00	99.00
9	2	25	21	15.0	1	280.0	2.10	13.60	99.00	99.00
9	2	25	22	15.0	1	276.0	4.10	12.80	99.00	99.00
9	2	25	23	15.0	1	284.0	4.10	11.40	99.00	99.00
9	2	25	24	15.0	1	284.0	3.60	10.60	99.00	99.00
9	2	26	1	15.0	1	271.0	2.60	10.10	99.00	99.00
9	2	26	2	15.0	1	248.0	2.10	10.50	99.00	99.00
9	2	26	3	15.0	1	240.0	1.50	10.90	99.00	99.00
9	2	26	4	15.0	1	252.0	0.50	11.10	99.00	99.00
9	2	26	5	15.0	1	0.0	0.00	11.30	99.00	99.00
9	2	26	6	15.0	1	120.0	0.50	11.50	99.00	99.00
9	2	26	7	15.0	1	133.0	1.00	11.50	99.00	99.00
9	2	26	8	15.0	1	132.0	1.50	11.50	99.00	99.00
9	2	26	9	15.0	1	139.0	2.10	12.10	99.00	99.00
9	2	26	10	15.0	1	151.0	0.50	13.80	99.00	99.00
9	2	26	11	15.0	1	0.0	0.00	14.80	99.00	99.00
9	2	26	12	15.0	1	0.0	0.00	15.40	99.00	99.00
9	2	26	13	15.0	1	0.0	0.00	16.40	99.00	99.00
9	2	26	14	15.0	1	251.0	0.50	17.10	99.00	99.00
9	2	26	15	15.0	1	326.0	1.00	17.60	99.00	99.00
9	2	26	16	15.0	1	352.0	2.10	17.60	99.00	99.00
9	2	26	17	15.0	1	0.0	0.00	17.30	99.00	99.00
9	2	26	18	15.0	1	14.0	4.10	15.60	99.00	99.00
9	2	26	19	15.0	1	13.0	4.10	14.00	99.00	99.00
9	2	26	20	15.0	1	4.0	3.60	13.10	99.00	99.00
9	2	26	21	15.0	1	355.0	3.60	12.30	99.00	99.00
9	2	26	22	15.0	1	351.0	3.60	12.10	99.00	99.00
9	2	26	23	15.0	1	5.0	2.60	12.10	99.00	99.00
9	2	26	24	15.0	1	354.0	1.50	12.30	99.00	99.00
9	2	27	1	15.0	1	318.0	1.00	12.30	99.00	99.00
9	2	27	2	15.0	1	277.0	1.00	12.30	99.00	99.00
9	2	27	3	15.0	1	273.0	1.00	12.10	99.00	99.00
9	2	27	4	15.0	1	302.0	1.00	12.10	99.00	99.00
9	2	27	5	15.0	1	325.0	1.50	11.90	99.00	99.00
9	2	27	6	15.0	1	334.0	2.10	11.60	99.00	99.00
9	2	27	7	15.0	1	343.0	2.60	11.60	99.00	99.00
9	2	27	8	15.0	1	343.0	2.60	11.50	99.00	99.00
9	2	27	9	15.0	1	15.0	2.60	11.80	99.00	99.00
9	2	27	10	15.0	1	9.0	1.00	12.60	99.00	99.00
9	2	27	11	15.0	1	0.0	0.00	13.60	99.00	99.00
9	2	27	12	15.0	1	0.0	0.00	14.50	99.00	99.00
9	2	27	13	15.0	1	0.0	0.00	15.40	99.00	99.00
9	2	27	14	15.0	1	0.0	0.00	16.00	99.00	99.00
9	2	27	15	15.0	1	335.0	0.50	16.40	99.00	99.00
9	2	27	16	15.0	1	345.0	1.50	16.40	99.00	99.00
9	2	27	17	15.0	1	6.0	1.50	16.10	99.00	99.00
9	2	27	18	15.0	1	41.0	1.50	15.60	99.00	99.00
9	2	27	19	15.0	1	68.0	1.50	15.00	99.00	99.00
9	2	27	20	15.0	1	89.0	1.50	14.50	99.00	99.00
9	2	27	21	15.0	1	106.0	1.50	13.90	99.00	99.00
9	2	27	22	15.0	1	135.0	0.50	13.50	99.00	99.00
9	2	27	23	15.0	1	0.0	0.00	13.00	99.00	99.00
9	2	27	24	15.0	1	0.0	0.00	12.60	99.00	99.00
9	2	28	1	15.0	1	0.0	0.00	12.50	99.00	99.00
9	2	28	2	15.0	1	0.0	0.00	12.30	99.00	99.00
9	2	28	3	15.0	1	0.0	0.00	12.10	99.00	99.00
9	2	28	4	15.0	1	317.0	0.50	12.00	99.00	99.00
9	2	28	5	15.0	1	0.0	0.00	11.90	99.00	99.00
9	2	28	6	15.0	1	0.0	0.00	11.60	99.00	99.00

9	2	28	7	15.0	1	0.0	0.00	11.60	99.00	99.00
9	2	28	8	15.0	1	0.0	0.00	11.60	99.00	99.00
9	2	28	9	15.0	1	317.0	0.50	13.40	99.00	99.00
9	2	28	10	15.0	1	336.0	0.50	15.40	99.00	99.00
9	2	28	11	15.0	1	19.0	0.50	18.00	99.00	99.00
9	2	28	12	15.0	1	19.0	0.50	20.10	99.00	99.00
9	2	28	13	15.0	1	30.0	1.00	21.60	99.00	99.00
9	2	28	14	15.0	1	35.0	2.60	22.50	99.00	99.00
9	2	28	15	15.0	1	12.0	4.10	21.30	99.00	99.00
9	2	28	16	15.0	1	19.0	4.60	19.50	99.00	99.00
9	2	28	17	15.0	1	32.0	4.60	18.10	99.00	99.00
9	2	28	18	15.0	1	33.0	4.10	17.50	99.00	99.00
9	2	28	19	15.0	1	27.0	2.10	17.50	99.00	99.00
9	2	28	20	15.0	1	170.0	1.00	17.60	99.00	99.00
9	2	28	21	15.0	1	179.0	2.10	17.60	99.00	99.00
9	2	28	22	15.0	1	175.0	3.10	17.50	99.00	99.00
9	2	28	23	15.0	1	172.0	3.10	17.40	99.00	99.00
9	2	28	24	15.0	1	185.0	2.60	17.40	99.00	99.00
9	3	1	1	15.0	1	189.0	2.10	17.40	99.00	99.00
9	3	1	2	15.0	1	199.0	1.50	17.40	99.00	99.00
9	3	1	3	15.0	1	208.0	1.00	17.40	99.00	99.00
9	3	1	4	15.0	1	197.0	1.00	17.40	99.00	99.00
9	3	1	5	15.0	1	194.0	1.50	17.10	99.00	99.00
9	3	1	6	15.0	1	178.0	2.10	17.00	99.00	99.00
9	3	1	7	15.0	1	185.0	1.50	16.80	99.00	99.00
9	3	1	8	15.0	1	192.0	1.50	16.90	99.00	99.00
9	3	1	9	15.0	1	228.0	0.50	17.60	99.00	99.00
9	3	1	10	15.0	1	304.0	1.00	19.40	99.00	99.00
9	3	1	11	15.0	1	334.0	1.50	21.80	99.00	99.00
9	3	1	12	15.0	1	347.0	2.60	22.60	99.00	99.00
9	3	1	13	15.0	1	355.0	3.60	23.10	99.00	99.00
9	3	1	14	15.0	1	5.0	4.10	23.40	99.00	99.00
9	3	1	15	15.0	1	14.0	3.60	23.00	99.00	99.00
9	3	1	16	15.0	1	25.0	3.60	23.30	99.00	99.00
9	3	1	17	15.0	1	21.0	3.10	22.40	99.00	99.00
9	3	1	18	15.0	1	35.0	2.10	21.60	99.00	99.00
9	3	1	19	15.0	1	49.0	0.50	20.80	99.00	99.00
9	3	1	20	15.0	1	249.0	1.00	19.80	99.00	99.00
9	3	1	21	15.0	1	249.0	1.50	19.30	99.00	99.00
9	3	1	22	15.0	1	239.0	1.50	19.00	99.00	99.00
9	3	1	23	15.0	1	263.0	0.50	18.60	99.00	99.00
9	3	1	24	15.0	1	10.0	0.50	18.30	99.00	99.00
9	3	2	1	15.0	1	15.0	1.00	18.10	99.00	99.00
9	3	2	2	15.0	1	39.0	4.10	17.50	99.00	99.00
9	3	2	3	15.0	1	19.0	5.70	16.10	99.00	99.00
9	3	2	4	15.0	1	10.0	5.10	15.10	99.00	99.00
9	3	2	5	15.0	1	10.0	3.60	14.80	99.00	99.00
9	3	2	6	15.0	1	15.0	2.60	14.60	99.00	99.00
9	3	2	7	15.0	1	36.0	1.50	14.40	99.00	99.00
9	3	2	8	15.0	1	95.0	1.50	14.40	99.00	99.00
9	3	2	9	15.0	1	123.0	2.10	14.90	99.00	99.00
9	3	2	10	15.0	1	137.0	3.10	16.80	99.00	99.00
9	3	2	11	15.0	1	147.0	4.10	18.60	99.00	99.00
9	3	2	12	15.0	1	148.0	3.10	20.10	99.00	99.00
9	3	2	13	15.0	1	171.0	2.10	21.80	99.00	99.00
9	3	2	14	15.0	1	226.0	3.60	22.60	99.00	99.00
9	3	2	15	15.0	1	236.0	2.60	22.60	99.00	99.00
9	3	2	16	15.0	1	258.0	5.10	21.90	99.00	99.00
9	3	2	17	15.0	1	250.0	6.20	19.50	99.00	99.00
9	3	2	18	15.0	1	246.0	5.70	17.90	99.00	99.00
9	3	2	19	15.0	1	263.0	4.60	17.00	99.00	99.00
9	3	2	20	15.0	1	268.0	4.10	16.10	99.00	99.00
9	3	2	21	15.0	1	285.0	3.60	15.00	99.00	99.00
9	3	2	22	15.0	1	294.0	2.60	13.80	99.00	99.00
9	3	2	23	15.0	1	330.0	1.00	12.90	99.00	99.00
9	3	2	24	15.0	1	19.0	1.00	12.10	99.00	99.00
9	3	3	1	15.0	1	29.0	0.50	11.60	99.00	99.00
9	3	3	2	15.0	1	28.0	0.50	11.10	99.00	99.00
9	3	3	3	15.0	1	69.0	0.50	10.60	99.00	99.00
9	3	3	4	15.0	1	93.0	1.00	10.10	99.00	99.00
9	3	3	5	15.0	1	95.0	1.50	9.60	99.00	99.00
9	3	3	6	15.0	1	104.0	2.10	8.90	99.00	99.00
9	3	3	7	15.0	1	99.0	2.60	7.90	99.00	99.00
9	3	3	8	15.0	1	98.0	1.50	8.60	99.00	99.00
9	3	3	9	15.0	1	133.0	1.50	12.50	99.00	99.00
9	3	3	10	15.0	1	154.0	1.50	14.30	99.00	99.00
9	3	3	11	15.0	1	147.0	1.00	15.60	99.00	99.00

```
 9  3  3 12    15.0 1   165.0     1.00    16.60    99.00    99.00
 9  3  3 13    15.0 1   166.0     0.50    17.60    99.00    99.00
 9  3  3 14    15.0 1   206.0     0.50    18.40    99.00    99.00
 9  3  3 15    15.0 1   253.0     3.10    18.80    99.00    99.00
 9  3  3 16    15.0 1   253.0     5.70    18.50    99.00    99.00
 9  3  3 17    15.0 1   252.0     4.10    17.50    99.00    99.00
 9  3  3 18    15.0 1   249.0     5.10    15.60    99.00    99.00
 9  3  3 19    15.0 1   243.0     5.10    13.60    99.00    99.00
 9  3  3 20    15.0 1   216.0     4.60    12.60    99.00    99.00
 9  3  3 21    15.0 1   202.0     4.10    12.10    99.00    99.00
 9  3  3 22    15.0 1   178.0     3.60    12.00    99.00    99.00
 9  3  3 23    15.0 1   151.0     3.10    11.90    99.00    99.00
 9  3  3 24    15.0 1   135.0     3.60    11.90    99.00    99.00
 9  3  4  1    15.0 1   130.0     4.10    11.80    99.00    99.00
 9  3  4  2    15.0 1   145.0     4.10    11.60    99.00    99.00
 9  3  4  3    15.0 1   153.0     4.10    11.50    99.00    99.00
 9  3  4  4    15.0 1   156.0     3.60    11.50    99.00    99.00
 9  3  4  5    15.0 1   158.0     3.10    11.30    99.00    99.00
 9  3  4  6    15.0 1   176.0     2.10    10.80    99.00    99.00
 9  3  4  7    15.0 1   247.0     1.00    10.30    99.00    99.00
 9  3  4  8    15.0 1   259.0     4.60    11.60    99.00    99.00
 9  3  4  9    15.0 1   287.0     3.60    13.10    99.00    99.00
 9  3  4 10    15.0 1   334.0     2.60    14.00    99.00    99.00
 9  3  4 11    15.0 1   330.0     2.10    14.10    99.00    99.00
 9  3  4 12    15.0 1   336.0     1.50    14.10    99.00    99.00
 9  3  4 13    15.0 1     3.0     1.50    14.80    99.00    99.00
 9  3  4 14    15.0 1   338.0     1.50    15.10    99.00    99.00
 9  3  4 15    15.0 1   353.0     2.10    15.60    99.00    99.00
 9  3  4 16    15.0 1   329.0     2.10    16.10    99.00    99.00
 9  3  4 17    15.0 1   314.0     2.60    15.90    99.00    99.00
 9  3  4 18    15.0 1   294.0     3.60    14.80    99.00    99.00
 9  3  4 19    15.0 1   283.0     4.60    12.60    99.00    99.00
 9  3  4 20    15.0 1   278.0     4.10    10.80    99.00    99.00
 9  3  4 21    15.0 1   279.0     3.60     9.80    99.00    99.00
 9  3  4 22    15.0 1   290.0     2.60     9.40    99.00    99.00
 9  3  4 23    15.0 1   299.0     1.00     9.00    99.00    99.00
 9  3  4 24    15.0 1   207.0     0.50     8.60    99.00    99.00
 9  3  5  1    15.0 1   190.0     0.50     8.10    99.00    99.00
 9  3  5  2    15.0 1   200.0     1.00     7.60    99.00    99.00
 9  3  5  3    15.0 1   216.0     1.00     7.30    99.00    99.00
 9  3  5  4    15.0 1   237.0     1.50     6.80    99.00    99.00
 9  3  5  5    15.0 1   260.0     1.50     6.30    99.00    99.00
 9  3  5  6    15.0 1   267.0     1.50     5.90    99.00    99.00
 9  3  5  7    15.0 1   265.0     1.00     5.60    99.00    99.00
 9  3  5  8    15.0 1   291.0     1.00     7.00    99.00    99.00
 9  3  5  9    15.0 1     0.0     0.00     8.80    99.00    99.00
 9  3  5 10    15.0 1     0.0     0.00    10.10    99.00    99.00
 9  3  5 11    15.0 1     0.0     0.00    11.40    99.00    99.00
 9  3  5 12    15.0 1     0.0     0.00    12.60    99.00    99.00
 9  3  5 13    15.0 1   295.0     0.50    13.60    99.00    99.00
 9  3  5 14    15.0 1   314.0     1.00    14.30    99.00    99.00
 9  3  5 15    15.0 1   320.0     2.10    14.60    99.00    99.00
 9  3  5 16    15.0 1   341.0     3.10    14.80    99.00    99.00
 9  3  5 17    15.0 1   349.0     3.10    14.40    99.00    99.00
 9  3  5 18    15.0 1   353.0     3.10    13.60    99.00    99.00
 9  3  5 19    15.0 1   339.0     3.10    12.60    99.00    99.00
 9  3  5 20    15.0 1   324.0     3.10    12.10    99.00    99.00
 9  3  5 21    15.0 1   306.0     3.60    11.50    99.00    99.00
 9  3  5 22    15.0 1   298.0     3.10    11.10    99.00    99.00
 9  3  5 23    15.0 1   324.0     2.60    11.00    99.00    99.00
 9  3  5 24    15.0 1   317.0     2.60    10.60    99.00    99.00
 9  3  6  1    15.0 1   306.0     3.60     9.60    99.00    99.00
 9  3  6  2    15.0 1   320.0     4.10     8.10    99.00    99.00
 9  3  6  3    15.0 1   320.0     3.60     7.10    99.00    99.00
 9  3  6  4    15.0 1   317.0     3.10     6.30    99.00    99.00
 9  3  6  5    15.0 1   310.0     2.60     5.80    99.00    99.00
 9  3  6  6    15.0 1   301.0     2.60     5.40    99.00    99.00
 9  3  6  7    15.0 1   300.0     2.10     5.10    99.00    99.00
 9  3  6  8    15.0 1   325.0     2.60     6.50    99.00    99.00
 9  3  6  9    15.0 1   328.0     1.50     8.30    99.00    99.00
 9  3  6 10    15.0 1   311.0     0.50     9.90    99.00    99.00
 9  3  6 11    15.0 1   298.0     1.00    11.30    99.00    99.00
 9  3  6 12    15.0 1   310.0     1.50    12.30    99.00    99.00
 9  3  6 13    15.0 1   322.0     2.60    13.10    99.00    99.00
 9  3  6 14    15.0 1   327.0     3.10    13.80    99.00    99.00
 9  3  6 15    15.0 1   341.0     4.10    14.00    99.00    99.00
 9  3  6 16    15.0 1   359.0     3.60    13.50    99.00    99.00
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 9  3  6 17    15.0 1    11.0     2.60    13.10    99.00    99.00
 9  3  6 18    15.0 1     0.0     0.00    12.60    99.00    99.00
 9  3  6 19    15.0 1   326.0     1.50    11.80    99.00    99.00
 9  3  6 20    15.0 1   345.0     3.10    10.60    99.00    99.00
 9  3  6 21    15.0 1   357.0     4.10     9.00    99.00    99.00
 9  3  6 22    15.0 1     0.0     0.00     8.10    99.00    99.00
 9  3  6 23    15.0 1     2.0     1.00     7.60    99.00    99.00
 9  3  6 24    15.0 1   310.0     0.50     7.10    99.00    99.00
 9  3  7  1    15.0 1   284.0     0.50     6.60    99.00    99.00
 9  3  7  2    15.0 1   282.0     0.50     6.00    99.00    99.00
 9  3  7  3    15.0 1   291.0     0.50     5.60    99.00    99.00
 9  3  7  4    15.0 1   296.0     1.00     5.60    99.00    99.00
 9  3  7  5    15.0 1   307.0     1.00     5.90    99.00    99.00
 9  3  7  6    15.0 1   301.0     1.00     6.10    99.00    99.00
 9  3  7  7    15.0 1   296.0     1.00     6.10    99.00    99.00
 9  3  7  8    15.0 1   301.0     1.00     6.10    99.00    99.00
 9  3  7  9    15.0 1   306.0     1.00     6.30    99.00    99.00
 9  3  7 10    15.0 1     0.0     0.00     8.30    99.00    99.00
 9  3  7 11    15.0 1   286.0     0.50    10.40    99.00    99.00
 9  3  7 12    15.0 1   313.0     1.00    12.00    99.00    99.00
 9  3  7 13    15.0 1   319.0     1.00    13.40    99.00    99.00
 9  3  7 14    15.0 1   332.0     1.00    14.30    99.00    99.00
 9  3  7 15    15.0 1   328.0     1.50    14.60    99.00    99.00
 9  3  7 16    15.0 1   340.0     2.60    14.80    99.00    99.00
 9  3  7 17    15.0 1   352.0     2.60    14.30    99.00    99.00
 9  3  7 18    15.0 1    12.0     3.60    13.10    99.00    99.00
 9  3  7 19    15.0 1    31.0     3.10    11.90    99.00    99.00
 9  3  7 20    15.0 1    49.0     2.10    10.90    99.00    99.00
 9  3  7 21    15.0 1    88.0     0.50     9.80    99.00    99.00
 9  3  7 22    15.0 1   240.0     0.50     8.60    99.00    99.00
 9  3  7 23    15.0 1   285.0     1.00     7.60    99.00    99.00
 9  3  7 24    15.0 1   290.0     1.00     7.00    99.00    99.00
 9  3  8  1    15.0 1   322.0     0.50     6.30    99.00    99.00
 9  3  8  2    15.0 1    28.0     0.50     5.80    99.00    99.00
 9  3  8  3    15.0 1    88.0     0.50     5.10    99.00    99.00
 9  3  8  4    15.0 1     0.0     0.00     4.60    99.00    99.00
 9  3  8  5    15.0 1     0.0     0.00     4.10    99.00    99.00
 9  3  8  6    15.0 1     0.0     0.00     3.80    99.00    99.00
 9  3  8  7    15.0 1     0.0     0.00     3.50    99.00    99.00
 9  3  8  8    15.0 1     0.0     0.00     5.50    99.00    99.00
 9  3  8  9    15.0 1     0.0     0.00     8.80    99.00    99.00
 9  3  8 10    15.0 1     0.0     0.00    11.10    99.00    99.00
 9  3  8 11    15.0 1     0.0     0.00    12.90    99.00    99.00
 9  3  8 12    15.0 1   300.0     0.50    14.10    99.00    99.00
 9  3  8 13    15.0 1   313.0     1.00    15.40    99.00    99.00
 9  3  8 14    15.0 1   315.0     1.50    16.10    99.00    99.00
 9  3  8 15    15.0 1   331.0     2.60    16.50    99.00    99.00
 9  3  8 16    15.0 1   342.0     3.60    16.40    99.00    99.00
 9  3  8 17    15.0 1   339.0     3.10    15.60    99.00    99.00
 9  3  8 18    15.0 1   344.0     3.60    14.60    99.00    99.00
 9  3  8 19    15.0 1   344.0     3.60    13.60    99.00    99.00
 9  3  8 20    15.0 1   320.0     3.60    12.60    99.00    99.00
 9  3  8 21    15.0 1   311.0     4.60    10.90    99.00    99.00
 9  3  8 22    15.0 1   326.0     4.10     9.50    99.00    99.00
 9  3  8 23    15.0 1   327.0     3.60     8.80    99.00    99.00
 9  3  8 24    15.0 1   334.0     4.10     7.90    99.00    99.00
 9  3  9  1    15.0 1   319.0     3.60     7.00    99.00    99.00
 9  3  9  2    15.0 1   323.0     3.10     6.40    99.00    99.00
 9  3  9  3    15.0 1   308.0     2.60     6.10    99.00    99.00
 9  3  9  4    15.0 1   312.0     2.10     5.60    99.00    99.00
 9  3  9  5    15.0 1   300.0     1.50     5.30    99.00    99.00
 9  3  9  6    15.0 1   292.0     1.50     5.10    99.00    99.00
 9  3  9  7    15.0 1   285.0     1.00     5.30    99.00    99.00
 9  3  9  8    15.0 1   330.0     4.10     6.10    99.00    99.00
 9  3  9  9    15.0 1   332.0     4.10     7.00    99.00    99.00
 9  3  9 10    15.0 1   326.0     3.60     8.10    99.00    99.00
 9  3  9 11    15.0 1   335.0     3.10     9.30    99.00    99.00
 9  3  9 12    15.0 1   326.0     2.60    10.40    99.00    99.00
 9  3  9 13    15.0 1   332.0     3.10    11.40    99.00    99.00
 9  3  9 14    15.0 1   334.0     3.60    12.10    99.00    99.00
 9  3  9 15    15.0 1   330.0     4.60    12.50    99.00    99.00
 9  3  9 16    15.0 1   334.0     5.10    12.50    99.00    99.00
 9  3  9 17    15.0 1   335.0     3.60    12.00    99.00    99.00
 9  3  9 18    15.0 1   325.0     4.10    10.60    99.00    99.00
 9  3  9 19    15.0 1   316.0     3.60     9.40    99.00    99.00
 9  3  9 20    15.0 1   316.0     3.10     8.60    99.00    99.00
 9  3  9 21    15.0 1   328.0     2.60     8.00    99.00    99.00
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 9  3  9 22    15.0 1   347.0     1.00     7.10    99.00    99.00
 9  3  9 23    15.0 1    77.0     0.50     6.30    99.00    99.00
 9  3  9 24    15.0 1   208.0     0.50     5.50    99.00    99.00
 9  3 10  1    15.0 1   289.0     1.50     4.90    99.00    99.00
 9  3 10  2    15.0 1   310.0     3.10     4.10    99.00    99.00
 9  3 10  3    15.0 1   319.0     1.50     3.50    99.00    99.00
 9  3 10  4    15.0 1   360.0     0.50     3.00    99.00    99.00
 9  3 10  5    15.0 1   277.0     0.50     2.60    99.00    99.00
 9  3 10  6    15.0 1   271.0     1.50     2.30    99.00    99.00
 9  3 10  7    15.0 1   289.0     2.10     2.10    99.00    99.00
 9  3 10  8    15.0 1   327.0     2.10     4.00    99.00    99.00
 9  3 10  9    15.0 1   305.0     1.00     5.60    99.00    99.00
 9  3 10 10    15.0 1   280.0     1.00     7.30    99.00    99.00
 9  3 10 11    15.0 1   292.0     0.50     9.10    99.00    99.00
 9  3 10 12    15.0 1   335.0     0.50    10.60    99.00    99.00
 9  3 10 13    15.0 1   339.0     1.00    12.10    99.00    99.00
 9  3 10 14    15.0 1   346.0     2.10    13.10    99.00    99.00
 9  3 10 15    15.0 1   350.0     3.10    13.80    99.00    99.00
 9  3 10 16    15.0 1     0.0     0.00    13.80    99.00    99.00
 9  3 10 17    15.0 1     8.0     3.10    13.30    99.00    99.00
 9  3 10 18    15.0 1    14.0     3.10    12.30    99.00    99.00
 9  3 10 19    15.0 1    16.0     2.60    11.10    99.00    99.00
 9  3 10 20    15.0 1   359.0     0.50    10.10    99.00    99.00
 9  3 10 21    15.0 1   246.0     0.50     9.00    99.00    99.00
 9  3 10 22    15.0 1   267.0     1.00     8.00    99.00    99.00
 9  3 10 23    15.0 1   278.0     0.50     7.30    99.00    99.00
 9  3 10 24    15.0 1     0.0     0.00     6.40    99.00    99.00
 9  3 11  1    15.0 1     0.0     0.00     5.80    99.00    99.00
 9  3 11  2    15.0 1   351.0     0.50     5.10    99.00    99.00
 9  3 11  3    15.0 1   330.0     0.50     4.60    99.00    99.00
 9  3 11  4    15.0 1   314.0     1.00     4.10    99.00    99.00
 9  3 11  5    15.0 1   315.0     1.00     3.90    99.00    99.00
 9  3 11  6    15.0 1   312.0     1.00     3.50    99.00    99.00
 9  3 11  7    15.0 1   297.0     1.00     3.30    99.00    99.00
 9  3 11  8    15.0 1   332.0     1.50     4.60    99.00    99.00
 9  3 11  9    15.0 1   308.0     1.00     6.40    99.00    99.00
 9  3 11 10    15.0 1   314.0     0.50     8.50    99.00    99.00
 9  3 11 11    15.0 1   298.0     0.50    11.00    99.00    99.00
 9  3 11 12    15.0 1   313.0     0.50    12.60    99.00    99.00
 9  3 11 13    15.0 1   307.0     0.50    14.30    99.00    99.00
 9  3 11 14    15.0 1   307.0     1.00    15.60    99.00    99.00
 9  3 11 15    15.0 1   325.0     1.50    16.30    99.00    99.00
 9  3 11 16    15.0 1   334.0     2.10    17.10    99.00    99.00
 9  3 11 17    15.0 1   339.0     3.10    16.60    99.00    99.00
 9  3 11 18    15.0 1   356.0     3.60    15.60    99.00    99.00
 9  3 11 19    15.0 1     0.0     0.00    14.40    99.00    99.00
 9  3 11 20    15.0 1   267.0     3.60    13.10    99.00    99.00
 9  3 11 21    15.0 1   270.0     4.60    10.80    99.00    99.00
 9  3 11 22    15.0 1   275.0     3.60     9.60    99.00    99.00
 9  3 11 23    15.0 1   271.0     3.10     9.10    99.00    99.00
 9  3 11 24    15.0 1   283.0     1.50     8.60    99.00    99.00
 9  3 12  1    15.0 1   270.0     0.50     8.40    99.00    99.00
 9  3 12  2    15.0 1   217.0     1.00     8.10    99.00    99.00
 9  3 12  3    15.0 1   230.0     1.50     7.60    99.00    99.00
 9  3 12  4    15.0 1   260.0     2.10     7.00    99.00    99.00
 9  3 12  5    15.0 1   279.0     3.10     6.40    99.00    99.00
 9  3 12  6    15.0 1   291.0     3.10     5.90    99.00    99.00
 9  3 12  7    15.0 1   289.0     3.10     5.50    99.00    99.00
 9  3 12  8    15.0 1   317.0     4.10     7.40    99.00    99.00
 9  3 12  9    15.0 1   325.0     3.10     9.30    99.00    99.00
 9  3 12 10    15.0 1   309.0     2.60    10.90    99.00    99.00
 9  3 12 11    15.0 1   296.0     2.10    12.30    99.00    99.00
 9  3 12 12    15.0 1   304.0     2.10    13.60    99.00    99.00
 9  3 12 13    15.0 1   310.0     2.10    14.80    99.00    99.00
 9  3 12 14    15.0 1   319.0     2.10    15.90    99.00    99.00
 9  3 12 15    15.0 1   330.0     2.10    16.50    99.00    99.00
 9  3 12 16    15.0 1   343.0     2.60    16.80    99.00    99.00
 9  3 12 17    15.0 1     0.0     0.00    16.50    99.00    99.00
 9  3 12 18    15.0 1    25.0     2.10    15.90    99.00    99.00
 9  3 12 19    15.0 1    34.0     0.50    14.80    99.00    99.00
 9  3 12 20    15.0 1     0.0     0.00    13.40    99.00    99.00
 9  3 12 21    15.0 1   207.0     0.50    12.10    99.00    99.00
 9  3 12 22    15.0 1   227.0     0.50    11.10    99.00    99.00
 9  3 12 23    15.0 1     0.0     0.00    10.30    99.00    99.00
 9  3 12 24    15.0 1   340.0     0.50     9.60    99.00    99.00
 9  3 13  1    15.0 1   316.0     1.00     9.10    99.00    99.00
 9  3 13  2    15.0 1   299.0     1.50     8.60    99.00    99.00
```

9	3	13	3	15.0	1	287.0	1.50	8.00	99.00	99.00
9	3	13	4	15.0	1	278.0	1.50	7.60	99.00	99.00
9	3	13	5	15.0	1	259.0	1.50	7.30	99.00	99.00
9	3	13	6	15.0	1	252.0	1.50	6.90	99.00	99.00
9	3	13	7	15.0	1	237.0	1.50	6.60	99.00	99.00
9	3	13	8	15.0	1	303.0	1.50	8.00	99.00	99.00
9	3	13	9	15.0	1	278.0	1.00	9.80	99.00	99.00
9	3	13	10	15.0	1	264.0	1.00	12.10	99.00	99.00
9	3	13	11	15.0	1	267.0	0.50	13.80	99.00	99.00
9	3	13	12	15.0	1	288.0	0.50	15.40	99.00	99.00
9	3	13	13	15.0	1	309.0	0.50	16.60	99.00	99.00
9	3	13	14	15.0	1	327.0	1.00	17.60	99.00	99.00
9	3	13	15	15.0	1	343.0	1.00	18.30	99.00	99.00
9	3	13	16	15.0	1	358.0	1.50	18.50	99.00	99.00
9	3	13	17	15.0	1	18.0	2.10	18.10	99.00	99.00
9	3	13	18	15.0	1	32.0	3.10	17.10	99.00	99.00
9	3	13	19	15.0	1	52.0	2.10	15.90	99.00	99.00
9	3	13	20	15.0	1	122.0	0.50	14.40	99.00	99.00
9	3	13	21	15.0	1	225.0	1.00	12.90	99.00	99.00
9	3	13	22	15.0	1	255.0	1.50	11.80	99.00	99.00
9	3	13	23	15.0	1	293.0	1.00	11.00	99.00	99.00
9	3	13	24	15.0	1	339.0	1.00	10.10	99.00	99.00
9	3	14	1	15.0	1	340.0	1.00	9.40	99.00	99.00
9	3	14	2	15.0	1	322.0	1.50	9.00	99.00	99.00
9	3	14	3	15.0	1	314.0	2.10	8.30	99.00	99.00
9	3	14	4	15.0	1	305.0	2.10	7.50	99.00	99.00
9	3	14	5	15.0	1	301.0	2.10	6.90	99.00	99.00
9	3	14	6	15.0	1	305.0	2.10	6.40	99.00	99.00
9	3	14	7	15.0	1	276.0	1.50	6.10	99.00	99.00
9	3	14	8	15.0	1	331.0	2.60	7.90	99.00	99.00
9	3	14	9	15.0	1	334.0	1.00	9.60	99.00	99.00
9	3	14	10	15.0	1	312.0	0.50	11.60	99.00	99.00
9	3	14	11	15.0	1	311.0	0.50	13.30	99.00	99.00
9	3	14	12	15.0	1	308.0	0.50	14.60	99.00	99.00
9	3	14	13	15.0	1	313.0	1.00	15.90	99.00	99.00
9	3	14	14	15.0	1	322.0	1.50	16.80	99.00	99.00
9	3	14	15	15.0	1	342.0	2.60	17.10	99.00	99.00
9	3	14	16	15.0	1	360.0	3.60	17.10	99.00	99.00
9	3	14	17	15.0	1	6.0	3.10	16.60	99.00	99.00
9	3	14	18	15.0	1	11.0	3.60	15.80	99.00	99.00
9	3	14	19	15.0	1	0.0	0.00	14.80	99.00	99.00
9	3	14	20	15.0	1	340.0	3.10	13.80	99.00	99.00
9	3	14	21	15.0	1	318.0	3.10	12.80	99.00	99.00
9	3	14	22	15.0	1	300.0	3.10	11.80	99.00	99.00
9	3	14	23	15.0	1	297.0	3.60	10.80	99.00	99.00
9	3	14	24	15.0	1	310.0	4.10	9.90	99.00	99.00
9	3	15	1	15.0	1	322.0	3.60	9.30	99.00	99.00
9	3	15	2	15.0	1	325.0	3.10	8.90	99.00	99.00
9	3	15	3	15.0	1	308.0	3.10	8.50	99.00	99.00
9	3	15	4	15.0	1	298.0	2.60	8.10	99.00	99.00
9	3	15	5	15.0	1	294.0	1.00	7.60	99.00	99.00
9	3	15	6	15.0	1	0.0	0.00	7.30	99.00	99.00
9	3	15	7	15.0	1	203.0	0.50	6.90	99.00	99.00
9	3	15	8	15.0	1	226.0	0.50	8.00	99.00	99.00
9	3	15	9	15.0	1	173.0	0.50	9.00	99.00	99.00
9	3	15	10	15.0	1	164.0	1.50	9.80	99.00	99.00
9	3	15	11	15.0	1	162.0	1.00	11.30	99.00	99.00
9	3	15	12	15.0	1	0.0	0.00	13.10	99.00	99.00
9	3	15	13	15.0	1	0.0	0.00	14.60	99.00	99.00
9	3	15	14	15.0	1	0.0	0.00	15.60	99.00	99.00
9	3	15	15	15.0	1	286.0	0.50	16.60	99.00	99.00
9	3	15	16	15.0	1	330.0	0.50	17.00	99.00	99.00
9	3	15	17	15.0	1	35.0	1.00	17.10	99.00	99.00
9	3	15	18	15.0	1	81.0	1.00	16.50	99.00	99.00
9	3	15	19	15.0	1	124.0	1.50	15.40	99.00	99.00
9	3	15	20	15.0	1	168.0	3.10	14.10	99.00	99.00
9	3	15	21	15.0	1	216.0	3.60	12.60	99.00	99.00
9	3	15	22	15.0	1	236.0	3.10	11.40	99.00	99.00
9	3	15	23	15.0	1	254.0	3.10	10.60	99.00	99.00
9	3	15	24	15.0	1	248.0	2.60	10.10	99.00	99.00
9	3	16	1	15.0	1	251.0	2.10	9.90	99.00	99.00
9	3	16	2	15.0	1	232.0	1.00	9.60	99.00	99.00
9	3	16	3	15.0	1	211.0	0.50	9.50	99.00	99.00
9	3	16	4	15.0	1	191.0	1.00	9.60	99.00	99.00
9	3	16	5	15.0	1	168.0	1.00	9.80	99.00	99.00
9	3	16	6	15.0	1	141.0	1.50	10.00	99.00	99.00
9	3	16	7	15.0	1	127.0	2.60	10.10	99.00	99.00

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 9  3 16  8    15.0 1   140.0     3.10    10.50    99.00    99.00
 9  3 16  9    15.0 1   151.0     3.10    11.40    99.00    99.00
 9  3 16 10    15.0 1   182.0     2.10    12.50    99.00    99.00
 9  3 16 11    15.0 1   193.0     1.00    14.10    99.00    99.00
 9  3 16 12    15.0 1     0.0     0.00    15.60    99.00    99.00
 9  3 16 13    15.0 1     0.0     0.00    17.10    99.00    99.00
 9  3 16 14    15.0 1   307.0     0.50    18.40    99.00    99.00
 9  3 16 15    15.0 1   324.0     0.50    19.30    99.00    99.00
 9  3 16 16    15.0 1     6.0     1.50    20.10    99.00    99.00
 9  3 16 17    15.0 1    18.0     2.10    20.10    99.00    99.00
 9  3 16 18    15.0 1    31.0     3.10    19.60    99.00    99.00
 9  3 16 19    15.0 1    36.0     3.10    18.50    99.00    99.00
 9  3 16 20    15.0 1    46.0     1.50    17.60    99.00    99.00
 9  3 16 21    15.0 1   258.0     0.50    16.60    99.00    99.00
 9  3 16 22    15.0 1   301.0     3.10    15.60    99.00    99.00
 9  3 16 23    15.0 1   336.0     4.10    14.10    99.00    99.00
 9  3 16 24    15.0 1   346.0     4.10    13.10    99.00    99.00
 9  3 17  1    15.0 1   337.0     3.10    12.60    99.00    99.00
 9  3 17  2    15.0 1   340.0     2.10    12.40    99.00    99.00
 9  3 17  3    15.0 1   317.0     1.50    12.10    99.00    99.00
 9  3 17  4    15.0 1   294.0     1.00    12.00    99.00    99.00
 9  3 17  5    15.0 1   272.0     1.00    12.00    99.00    99.00
 9  3 17  6    15.0 1   277.0     1.00    12.00    99.00    99.00
 9  3 17  7    15.0 1   286.0     1.00    11.90    99.00    99.00
 9  3 17  8    15.0 1   349.0     1.00    12.10    99.00    99.00
 9  3 17  9    15.0 1   349.0     0.50    12.60    99.00    99.00
 9  3 17 10    15.0 1     0.0     0.00    13.10    99.00    99.00
 9  3 17 11    15.0 1     0.0     0.00    13.60    99.00    99.00
 9  3 17 12    15.0 1   306.0     0.50    14.50    99.00    99.00
 9  3 17 13    15.0 1   308.0     0.50    15.90    99.00    99.00
 9  3 17 14    15.0 1   325.0     0.50    16.60    99.00    99.00
 9  3 17 15    15.0 1   331.0     1.00    17.10    99.00    99.00
 9  3 17 16    15.0 1     2.0     1.00    17.40    99.00    99.00
 9  3 17 17    15.0 1    91.0     0.50    17.50    99.00    99.00
 9  3 17 18    15.0 1   138.0     0.50    17.00    99.00    99.00
 9  3 17 19    15.0 1   148.0     1.00    16.30    99.00    99.00
 9  3 17 20    15.0 1   160.0     1.00    15.60    99.00    99.00
 9  3 17 21    15.0 1   157.0     1.00    14.90    99.00    99.00
 9  3 17 22    15.0 1   151.0     1.00    14.50    99.00    99.00
 9  3 17 23    15.0 1   138.0     0.50    14.00    99.00    99.00
 9  3 17 24    15.0 1     0.0     0.00    13.50    99.00    99.00
 9  3 18  1    15.0 1     0.0     0.00    12.90    99.00    99.00
 9  3 18  2    15.0 1   312.0     0.50    12.40    99.00    99.00
 9  3 18  3    15.0 1   325.0     0.50    11.90    99.00    99.00
 9  3 18  4    15.0 1   311.0     1.00    10.60    99.00    99.00
 9  3 18  5    15.0 1   298.0     0.50     9.60    99.00    99.00
 9  3 18  6    15.0 1   354.0     0.50     9.60    99.00    99.00
 9  3 18  7    15.0 1    13.0     0.50     9.50    99.00    99.00
 9  3 18  8    15.0 1     0.0     0.00    10.10    99.00    99.00
 9  3 18  9    15.0 1     0.0     0.00    12.60    99.00    99.00
 9  3 18 10    15.0 1     0.0     0.00    14.90    99.00    99.00
 9  3 18 11    15.0 1     0.0     0.00    16.40    99.00    99.00
 9  3 18 12    15.0 1   310.0     0.50    17.80    99.00    99.00
 9  3 18 13    15.0 1   323.0     1.50    19.10    99.00    99.00
 9  3 18 14    15.0 1   331.0     2.10    20.10    99.00    99.00
 9  3 18 15    15.0 1   345.0     2.60    20.60    99.00    99.00
 9  3 18 16    15.0 1   354.0     3.10    20.50    99.00    99.00
 9  3 18 17    15.0 1   340.0     2.10    20.10    99.00    99.00
 9  3 18 18    15.0 1   337.0     1.00    19.50    99.00    99.00
 9  3 18 19    15.0 1     0.0     0.00    18.60    99.00    99.00
 9  3 18 20    15.0 1     0.0     0.00    17.90    99.00    99.00
 9  3 18 21    15.0 1     0.0     0.00    17.10    99.00    99.00
 9  3 18 22    15.0 1     0.0     0.00    16.60    99.00    99.00
 9  3 18 23    15.0 1     0.0     0.00    16.30    99.00    99.00
 9  3 18 24    15.0 1   288.0     0.50    15.90    99.00    99.00
 9  3 19  1    15.0 1   325.0     1.00    15.90    99.00    99.00
 9  3 19  2    15.0 1   332.0     0.50    15.80    99.00    99.00
 9  3 19  3    15.0 1   317.0     0.50    15.60    99.00    99.00
 9  3 19  4    15.0 1   323.0     0.50    15.50    99.00    99.00
 9  3 19  5    15.0 1   300.0     0.50    15.10    99.00    99.00
 9  3 19  6    15.0 1   288.0     1.00    15.00    99.00    99.00
 9  3 19  7    15.0 1     0.0     0.00    14.80    99.00    99.00
 9  3 19  8    15.0 1   235.0     1.00    14.80    99.00    99.00
 9  3 19  9    15.0 1   277.0     2.10    16.10    99.00    99.00
 9  3 19 10    15.0 1   302.0     2.10    17.60    99.00    99.00
 9  3 19 11    15.0 1   322.0     1.00    19.10    99.00    99.00
 9  3 19 12    15.0 1   339.0     1.50    20.90    99.00    99.00
```

9	3	19	13	15.0	1	344.0	3.60	21.60	99.00	99.00
9	3	19	14	15.0	1	340.0	4.60	21.50	99.00	99.00
9	3	19	15	15.0	1	338.0	5.10	20.40	99.00	99.00
9	3	19	16	15.0	1	333.0	4.10	18.50	99.00	99.00
9	3	19	17	15.0	1	312.0	2.60	17.40	99.00	99.00
9	3	19	18	15.0	1	301.0	0.50	16.80	99.00	99.00
9	3	19	19	15.0	1	154.0	1.50	16.80	99.00	99.00
9	3	19	20	15.0	1	143.0	2.10	16.80	99.00	99.00
9	3	19	21	15.0	1	148.0	1.50	16.90	99.00	99.00
9	3	19	22	15.0	1	211.0	1.00	16.80	99.00	99.00
9	3	19	23	15.0	1	321.0	1.50	16.40	99.00	99.00
9	3	19	24	15.0	1	358.0	2.60	15.90	99.00	99.00
9	3	20	1	15.0	1	24.0	3.60	15.50	99.00	99.00
9	3	20	2	15.0	1	8.0	3.10	15.10	99.00	99.00
9	3	20	3	15.0	1	312.0	2.10	14.60	99.00	99.00
9	3	20	4	15.0	1	301.0	3.60	13.60	99.00	99.00
9	3	20	5	15.0	1	303.0	3.10	12.90	99.00	99.00
9	3	20	6	15.0	1	287.0	2.10	12.60	99.00	99.00
9	3	20	7	15.0	1	315.0	1.50	12.60	99.00	99.00
9	3	20	8	15.0	1	352.0	2.60	14.00	99.00	99.00
9	3	20	9	15.0	1	346.0	1.00	15.80	99.00	99.00
9	3	20	10	15.0	1	314.0	0.50	17.60	99.00	99.00
9	3	20	11	15.0	1	298.0	1.00	19.10	99.00	99.00
9	3	20	12	15.0	1	296.0	1.50	20.40	99.00	99.00
9	3	20	13	15.0	1	317.0	2.10	21.50	99.00	99.00
9	3	20	14	15.0	1	334.0	2.60	22.10	99.00	99.00
9	3	20	15	15.0	1	339.0	3.10	22.50	99.00	99.00
9	3	20	16	15.0	1	336.0	3.60	22.60	99.00	99.00
9	3	20	17	15.0	1	338.0	2.60	22.40	99.00	99.00
9	3	20	18	15.0	1	329.0	2.60	21.80	99.00	99.00
9	3	20	19	15.0	1	326.0	2.60	20.60	99.00	99.00
9	3	20	20	15.0	1	319.0	3.60	19.60	99.00	99.00
9	3	20	21	15.0	1	321.0	4.10	18.00	99.00	99.00
9	3	20	22	15.0	1	328.0	4.10	16.90	99.00	99.00
9	3	20	23	15.0	1	326.0	3.60	15.60	99.00	99.00
9	3	20	24	15.0	1	333.0	3.60	14.60	99.00	99.00
9	3	21	1	15.0	1	333.0	3.60	13.90	99.00	99.00
9	3	21	2	15.0	1	328.0	3.60	13.10	99.00	99.00
9	3	21	3	15.0	1	317.0	3.10	12.60	99.00	99.00
9	3	21	4	15.0	1	309.0	2.60	12.50	99.00	99.00
9	3	21	5	15.0	1	297.0	2.60	12.00	99.00	99.00
9	3	21	6	15.0	1	296.0	2.10	11.60	99.00	99.00
9	3	21	7	15.0	1	309.0	2.10	11.60	99.00	99.00
9	3	21	8	15.0	1	326.0	2.10	11.90	99.00	99.00
9	3	21	9	15.0	1	360.0	0.50	12.60	99.00	99.00
9	3	21	10	15.0	1	0.0	0.00	14.30	99.00	99.00
9	3	21	11	15.0	1	0.0	0.00	15.90	99.00	99.00
9	3	21	12	15.0	1	0.0	0.00	17.10	99.00	99.00
9	3	21	13	15.0	1	0.0	0.00	18.50	99.00	99.00
9	3	21	14	15.0	1	279.0	0.50	19.50	99.00	99.00
9	3	21	15	15.0	1	286.0	2.10	20.10	99.00	99.00
9	3	21	16	15.0	1	276.0	4.60	20.60	99.00	99.00
9	3	21	17	15.0	1	288.0	4.10	19.60	99.00	99.00
9	3	21	18	15.0	1	282.0	5.10	17.40	99.00	99.00
9	3	21	19	15.0	1	266.0	5.70	15.10	99.00	99.00
9	3	21	20	15.0	1	269.0	5.10	13.50	99.00	99.00
9	3	21	21	15.0	1	275.0	4.60	12.50	99.00	99.00
9	3	21	22	15.0	1	272.0	2.60	12.10	99.00	99.00
9	3	21	23	15.0	1	181.0	1.00	12.10	99.00	99.00
9	3	21	24	15.0	1	162.0	1.50	11.90	99.00	99.00
9	3	22	1	15.0	1	192.0	1.50	11.40	99.00	99.00
9	3	22	2	15.0	1	215.0	1.50	11.10	99.00	99.00
9	3	22	3	15.0	1	233.0	1.50	10.90	99.00	99.00
9	3	22	4	15.0	1	235.0	2.10	10.80	99.00	99.00
9	3	22	5	15.0	1	229.0	3.10	10.60	99.00	99.00
9	3	22	6	15.0	1	243.0	3.60	10.30	99.00	99.00
9	3	22	7	15.0	1	256.0	4.10	9.90	99.00	99.00
9	3	22	8	15.0	1	276.0	9.30	11.80	99.00	99.00
9	3	22	9	15.0	1	295.0	8.70	12.90	99.00	99.00
9	3	22	10	15.0	1	296.0	8.20	13.80	99.00	99.00
9	3	22	11	15.0	1	311.0	8.20	14.40	99.00	99.00
9	3	22	12	15.0	1	316.0	8.20	14.60	99.00	99.00
9	3	22	13	15.0	1	333.0	8.20	14.60	99.00	99.00
9	3	22	14	15.0	1	326.0	8.70	14.60	99.00	99.00
9	3	22	15	15.0	1	342.0	8.70	14.40	99.00	99.00
9	3	22	16	15.0	1	340.0	8.70	14.10	99.00	99.00
9	3	22	17	15.0	1	338.0	5.10	13.40	99.00	99.00

9	3	22	18	15.0	1	334.0	4.60	12.00	99.00	99.00
9	3	22	19	15.0	1	318.0	4.60	10.60	99.00	99.00
9	3	22	20	15.0	1	317.0	4.10	9.60	99.00	99.00
9	3	22	21	15.0	1	313.0	3.60	9.10	99.00	99.00
9	3	22	22	15.0	1	330.0	2.10	8.60	99.00	99.00
9	3	22	23	15.0	1	0.0	0.00	8.10	99.00	99.00
9	3	22	24	15.0	1	353.0	1.00	7.60	99.00	99.00
9	3	23	1	15.0	1	311.0	1.00	7.00	99.00	99.00
9	3	23	2	15.0	1	315.0	1.50	6.50	99.00	99.00
9	3	23	3	15.0	1	296.0	1.50	6.00	99.00	99.00
9	3	23	4	15.0	1	278.0	1.00	5.50	99.00	99.00
9	3	23	5	15.0	1	236.0	1.00	5.10	99.00	99.00
9	3	23	6	15.0	1	216.0	1.00	4.80	99.00	99.00
9	3	23	7	15.0	1	200.0	1.50	4.80	99.00	99.00
9	3	23	8	15.0	1	352.0	4.10	7.00	99.00	99.00
9	3	23	9	15.0	1	354.0	4.60	8.80	99.00	99.00
9	3	23	10	15.0	1	353.0	4.10	10.30	99.00	99.00
9	3	23	11	15.0	1	355.0	3.10	11.50	99.00	99.00
9	3	23	12	15.0	1	340.0	3.10	12.60	99.00	99.00
9	3	23	13	15.0	1	338.0	3.10	13.60	99.00	99.00
9	3	23	14	15.0	1	338.0	3.60	14.40	99.00	99.00
9	3	23	15	15.0	1	342.0	4.10	14.90	99.00	99.00
9	3	23	16	15.0	1	337.0	4.10	15.10	99.00	99.00
9	3	23	17	15.0	1	327.0	3.10	15.00	99.00	99.00
9	3	23	18	15.0	1	325.0	3.60	14.10	99.00	99.00
9	3	23	19	15.0	1	316.0	4.10	12.60	99.00	99.00
9	3	23	20	15.0	1	322.0	3.60	11.50	99.00	99.00
9	3	23	21	15.0	1	323.0	2.60	10.50	99.00	99.00
9	3	23	22	15.0	1	288.0	1.00	9.60	99.00	99.00
9	3	23	23	15.0	1	313.0	0.50	9.10	99.00	99.00
9	3	23	24	15.0	1	325.0	0.50	8.50	99.00	99.00
9	3	24	1	15.0	1	0.0	0.00	7.80	99.00	99.00
9	3	24	2	15.0	1	227.0	1.00	7.10	99.00	99.00
9	3	24	3	15.0	1	256.0	1.50	6.60	99.00	99.00
9	3	24	4	15.0	1	265.0	2.60	6.10	99.00	99.00
9	3	24	5	15.0	1	272.0	3.10	5.50	99.00	99.00
9	3	24	6	15.0	1	268.0	3.10	4.90	99.00	99.00
9	3	24	7	15.0	1	267.0	2.60	4.60	99.00	99.00
9	3	24	8	15.0	1	339.0	2.60	7.10	99.00	99.00
9	3	24	9	15.0	1	344.0	1.50	9.10	99.00	99.00
9	3	24	10	15.0	1	316.0	1.00	10.60	99.00	99.00
9	3	24	11	15.0	1	305.0	0.50	12.10	99.00	99.00
9	3	24	12	15.0	1	293.0	0.50	13.50	99.00	99.00
9	3	24	13	15.0	1	303.0	0.50	14.80	99.00	99.00
9	3	24	14	15.0	1	317.0	1.50	16.00	99.00	99.00
9	3	24	15	15.0	1	335.0	2.10	16.60	99.00	99.00
9	3	24	16	15.0	1	342.0	2.60	16.80	99.00	99.00
9	3	24	17	15.0	1	336.0	2.10	16.60	99.00	99.00
9	3	24	18	15.0	1	342.0	1.00	16.10	99.00	99.00
9	3	24	19	15.0	1	0.0	0.00	14.90	99.00	99.00
9	3	24	20	15.0	1	144.0	0.50	13.50	99.00	99.00
9	3	24	21	15.0	1	146.0	1.00	12.10	99.00	99.00
9	3	24	22	15.0	1	154.0	2.10	11.00	99.00	99.00
9	3	24	23	15.0	1	142.0	2.10	10.10	99.00	99.00
9	3	24	24	15.0	1	128.0	2.10	9.50	99.00	99.00
9	3	25	1	15.0	1	126.0	1.50	8.90	99.00	99.00
9	3	25	2	15.0	1	149.0	0.50	8.40	99.00	99.00
9	3	25	3	15.0	1	272.0	0.50	8.00	99.00	99.00
9	3	25	4	15.0	1	282.0	1.00	7.60	99.00	99.00
9	3	25	5	15.0	1	269.0	1.50	7.10	99.00	99.00
9	3	25	6	15.0	1	266.0	1.50	7.00	99.00	99.00
9	3	25	7	15.0	1	259.0	2.10	7.00	99.00	99.00
9	3	25	8	15.0	1	298.0	1.50	9.10	99.00	99.00
9	3	25	9	15.0	1	290.0	0.50	11.10	99.00	99.00
9	3	25	10	15.0	1	275.0	0.50	13.50	99.00	99.00
9	3	25	11	15.0	1	292.0	0.50	15.30	99.00	99.00
9	3	25	12	15.0	1	292.0	1.00	16.80	99.00	99.00
9	3	25	13	15.0	1	315.0	1.50	18.10	99.00	99.00
9	3	25	14	15.0	1	316.0	2.60	19.10	99.00	99.00
9	3	25	15	15.0	1	334.0	4.10	19.60	99.00	99.00
9	3	25	16	15.0	1	345.0	4.60	19.60	99.00	99.00
9	3	25	17	15.0	1	343.0	2.60	19.10	99.00	99.00
9	3	25	18	15.0	1	327.0	2.60	18.60	99.00	99.00
9	3	25	19	15.0	1	315.0	3.60	17.50	99.00	99.00
9	3	25	20	15.0	1	312.0	3.60	16.00	99.00	99.00
9	3	25	21	15.0	1	309.0	2.60	14.80	99.00	99.00
9	3	25	22	15.0	1	312.0	2.10	13.80	99.00	99.00

9	3	25	23	15.0	1	304.0	1.50	13.10	99.00	99.00
9	3	25	24	15.0	1	297.0	2.10	12.40	99.00	99.00
9	3	26	1	15.0	1	288.0	1.50	11.60	99.00	99.00
9	3	26	2	15.0	1	293.0	1.50	11.10	99.00	99.00
9	3	26	3	15.0	1	280.0	1.50	10.60	99.00	99.00
9	3	26	4	15.0	1	276.0	1.50	10.30	99.00	99.00
9	3	26	5	15.0	1	278.0	1.50	9.90	99.00	99.00
9	3	26	6	15.0	1	277.0	1.00	9.60	99.00	99.00
9	3	26	7	15.0	1	264.0	1.00	9.50	99.00	99.00
9	3	26	8	15.0	1	339.0	2.10	11.00	99.00	99.00
9	3	26	9	15.0	1	344.0	2.10	12.40	99.00	99.00
9	3	26	10	15.0	1	338.0	2.10	13.90	99.00	99.00
9	3	26	11	15.0	1	338.0	2.10	15.60	99.00	99.00
9	3	26	12	15.0	1	336.0	3.10	17.10	99.00	99.00
9	3	26	13	15.0	1	344.0	3.60	18.10	99.00	99.00
9	3	26	14	15.0	1	339.0	4.10	19.00	99.00	99.00
9	3	26	15	15.0	1	345.0	4.10	19.80	99.00	99.00
9	3	26	16	15.0	1	342.0	5.70	21.00	99.00	99.00
9	3	26	17	15.0	1	332.0	3.60	20.50	99.00	99.00
9	3	26	18	15.0	1	332.0	3.60	19.60	99.00	99.00
9	3	26	19	15.0	1	328.0	2.60	18.50	99.00	99.00
9	3	26	20	15.0	1	321.0	0.50	17.50	99.00	99.00
9	3	26	21	15.0	1	279.0	0.50	16.90	99.00	99.00
9	3	26	22	15.0	1	202.0	2.10	15.60	99.00	99.00
9	3	26	23	15.0	1	197.0	3.10	14.60	99.00	99.00
9	3	26	24	15.0	1	197.0	3.10	13.80	99.00	99.00
9	3	27	1	15.0	1	218.0	4.10	13.00	99.00	99.00
9	3	27	2	15.0	1	265.0	4.60	11.60	99.00	99.00
9	3	27	3	15.0	1	274.0	4.60	11.00	99.00	99.00
9	3	27	4	15.0	1	268.0	5.10	10.30	99.00	99.00
9	3	27	5	15.0	1	271.0	5.10	9.60	99.00	99.00
9	3	27	6	15.0	1	270.0	4.60	9.10	99.00	99.00
9	3	27	7	15.0	1	262.0	3.60	9.50	99.00	99.00
9	3	27	8	15.0	1	274.0	3.10	11.60	99.00	99.00
9	3	27	9	15.0	1	244.0	2.60	13.50	99.00	99.00
9	3	27	10	15.0	1	243.0	3.10	15.40	99.00	99.00
9	3	27	11	15.0	1	248.0	2.60	17.00	99.00	99.00
9	3	27	12	15.0	1	261.0	2.10	18.50	99.00	99.00
9	3	27	13	15.0	1	282.0	1.50	19.90	99.00	99.00
9	3	27	14	15.0	1	300.0	1.00	20.90	99.00	99.00
9	3	27	15	15.0	1	321.0	1.00	21.60	99.00	99.00
9	3	27	16	15.0	1	341.0	1.50	21.60	99.00	99.00
9	3	27	17	15.0	1	4.0	2.10	21.30	99.00	99.00
9	3	27	18	15.0	1	13.0	3.60	20.30	99.00	99.00
9	3	27	19	15.0	1	18.0	4.10	18.90	99.00	99.00
9	3	27	20	15.0	1	35.0	2.60	17.60	99.00	99.00
9	3	27	21	15.0	1	70.0	0.50	16.30	99.00	99.00
9	3	27	22	15.0	1	215.0	0.50	14.90	99.00	99.00
9	3	27	23	15.0	1	253.0	0.50	13.60	99.00	99.00
9	3	27	24	15.0	1	0.0	0.00	12.80	99.00	99.00
9	3	28	1	15.0	1	0.0	0.00	12.10	99.00	99.00
9	3	28	2	15.0	1	0.0	0.00	11.40	99.00	99.00
9	3	28	3	15.0	1	205.0	0.50	10.90	99.00	99.00
9	3	28	4	15.0	1	231.0	0.50	10.50	99.00	99.00
9	3	28	5	15.0	1	280.0	0.50	10.10	99.00	99.00
9	3	28	6	15.0	1	292.0	1.00	9.80	99.00	99.00
9	3	28	7	15.0	1	301.0	1.00	9.80	99.00	99.00
9	3	28	8	15.0	1	325.0	1.50	12.50	99.00	99.00
9	3	28	9	15.0	1	311.0	1.00	14.60	99.00	99.00
9	3	28	10	15.0	1	304.0	0.50	17.10	99.00	99.00
9	3	28	11	15.0	1	286.0	0.50	18.80	99.00	99.00
9	3	28	12	15.0	1	303.0	0.50	20.30	99.00	99.00
9	3	28	13	15.0	1	304.0	0.50	21.10	99.00	99.00
9	3	28	14	15.0	1	332.0	1.00	21.90	99.00	99.00
9	3	28	15	15.0	1	12.0	1.50	22.30	99.00	99.00
9	3	28	16	15.0	1	33.0	1.50	22.10	99.00	99.00
9	3	28	17	15.0	1	38.0	1.00	21.60	99.00	99.00
9	3	28	18	15.0	1	0.0	0.00	20.60	99.00	99.00
9	3	28	19	15.0	1	225.0	0.50	19.40	99.00	99.00
9	3	28	20	15.0	1	227.0	1.50	18.40	99.00	99.00
9	3	28	21	15.0	1	253.0	2.60	17.90	99.00	99.00
9	3	28	22	15.0	1	269.0	3.60	16.60	99.00	99.00
9	3	28	23	15.0	1	266.0	3.60	15.30	99.00	99.00
9	3	28	24	15.0	1	282.0	3.10	14.50	99.00	99.00
9	3	29	1	15.0	1	289.0	3.60	13.60	99.00	99.00
9	3	29	2	15.0	1	304.0	4.10	12.60	99.00	99.00
9	3	29	3	15.0	1	316.0	3.60	12.00	99.00	99.00

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 9  3 29  4    15.0 1   317.0     3.10    11.60    99.00    99.00
 9  3 29  5    15.0 1   311.0     3.10    11.10    99.00    99.00
 9  3 29  6    15.0 1   298.0     2.60    10.60    99.00    99.00
 9  3 29  7    15.0 1   306.0     2.10    10.50    99.00    99.00
 9  3 29  8    15.0 1   347.0     4.10    12.60    99.00    99.00
 9  3 29  9    15.0 1   350.0     3.60    14.30    99.00    99.00
 9  3 29 10    15.0 1   351.0     3.10    15.60    99.00    99.00
 9  3 29 11    15.0 1   331.0     3.60    16.60    99.00    99.00
 9  3 29 12    15.0 1   334.0     4.60    18.10    99.00    99.00
 9  3 29 13    15.0 1   329.0     6.70    18.90    99.00    99.00
 9  3 29 14    15.0 1   326.0     7.20    19.10    99.00    99.00
 9  3 29 15    15.0 1   317.0     7.70    19.10    99.00    99.00
 9  3 29 16    15.0 1   328.0     8.20    18.60    99.00    99.00
 9  3 29 17    15.0 1   322.0     5.70    17.40    99.00    99.00
 9  3 29 18    15.0 1   307.0     5.10    15.50    99.00    99.00
 9  3 29 19    15.0 1   297.0     4.60    13.50    99.00    99.00
 9  3 29 20    15.0 1   299.0     4.10    12.30    99.00    99.00
 9  3 29 21    15.0 1   286.0     1.50    11.60    99.00    99.00
 9  3 29 22    15.0 1   185.0     1.00    11.10    99.00    99.00
 9  3 29 23    15.0 1   195.0     2.60    10.80    99.00    99.00
 9  3 29 24    15.0 1   201.0     4.10     9.80    99.00    99.00
 9  3 30  1    15.0 1   215.0     3.60     8.90    99.00    99.00
 9  3 30  2    15.0 1   209.0     3.10     8.30    99.00    99.00
 9  3 30  3    15.0 1   240.0     3.10     7.80    99.00    99.00
 9  3 30  4    15.0 1   271.0     3.60     7.10    99.00    99.00
 9  3 30  5    15.0 1   276.0     4.10     6.40    99.00    99.00
 9  3 30  6    15.0 1   295.0     3.10     5.80    99.00    99.00
 9  3 30  7    15.0 1   301.0     2.10     6.10    99.00    99.00
 9  3 30  8    15.0 1   329.0     2.10     8.10    99.00    99.00
 9  3 30  9    15.0 1   297.0     1.00    10.10    99.00    99.00
 9  3 30 10    15.0 1   270.0     0.50    11.90    99.00    99.00
 9  3 30 11    15.0 1   271.0     0.50    13.60    99.00    99.00
 9  3 30 12    15.0 1   292.0     1.00    15.10    99.00    99.00
 9  3 30 13    15.0 1   294.0     1.50    16.60    99.00    99.00
 9  3 30 14    15.0 1   299.0     2.10    17.60    99.00    99.00
 9  3 30 15    15.0 1   323.0     2.10    18.40    99.00    99.00
 9  3 30 16    15.0 1   325.0     2.60    18.60    99.00    99.00
 9  3 30 17    15.0 1   328.0     2.60    18.30    99.00    99.00
 9  3 30 18    15.0 1   354.0     3.10    17.50    99.00    99.00
 9  3 30 19    15.0 1   350.0     3.10    16.50    99.00    99.00
 9  3 30 20    15.0 1   347.0     1.50    15.40    99.00    99.00
 9  3 30 21    15.0 1   295.0     0.50    14.00    99.00    99.00
 9  3 30 22    15.0 1   244.0     0.50    12.60    99.00    99.00
 9  3 30 23    15.0 1   247.0     0.50    11.60    99.00    99.00
 9  3 30 24    15.0 1   251.0     0.50    10.80    99.00    99.00
 9  3 31  1    15.0 1   276.0     0.50    10.10    99.00    99.00
 9  3 31  2    15.0 1   303.0     1.00     9.80    99.00    99.00
 9  3 31  3    15.0 1   304.0     1.00     9.40    99.00    99.00
 9  3 31  4    15.0 1   302.0     1.50     9.00    99.00    99.00
 9  3 31  5    15.0 1   297.0     1.50     8.50    99.00    99.00
 9  3 31  6    15.0 1   296.0     1.50     8.10    99.00    99.00
 9  3 31  7    15.0 1   293.0     1.50     8.00    99.00    99.00
 9  3 31  8    15.0 1   308.0     1.00    10.30    99.00    99.00
 9  3 31  9    15.0 1     0.0     0.00    12.40    99.00    99.00
 9  3 31 10    15.0 1     0.0     0.00    14.90    99.00    99.00
 9  3 31 11    15.0 1     0.0     0.00    16.60    99.00    99.00
 9  3 31 12    15.0 1   261.0     0.50    18.00    99.00    99.00
 9  3 31 13    15.0 1   278.0     0.50    19.40    99.00    99.00
 9  3 31 14    15.0 1   312.0     1.00    20.50    99.00    99.00
 9  3 31 15    15.0 1   335.0     2.10    21.10    99.00    99.00
 9  3 31 16    15.0 1   345.0     3.60    21.10    99.00    99.00
 9  3 31 17    15.0 1   354.0     3.10    20.50    99.00    99.00
 9  3 31 18    15.0 1   357.0     3.60    19.60    99.00    99.00
 9  3 31 19    15.0 1   341.0     3.10    18.60    99.00    99.00
 9  3 31 20    15.0 1   313.0     3.10    17.60    99.00    99.00
 9  3 31 21    15.0 1   301.0     3.60    16.10    99.00    99.00
 9  3 31 22    15.0 1   286.0     3.10    14.90    99.00    99.00
 9  3 31 23    15.0 1   296.0     2.10    14.00    99.00    99.00
 9  3 31 24    15.0 1   314.0     1.50    13.10    99.00    99.00
 9  4  1  1    15.0 1   309.0     1.50    12.60    99.00    99.00
 9  4  1  2    15.0 1   309.0     1.50    12.00    99.00    99.00
 9  4  1  3    15.0 1   314.0     1.50    11.60    99.00    99.00
 9  4  1  4    15.0 1   311.0     1.00    11.10    99.00    99.00
 9  4  1  5    15.0 1   279.0     1.00    10.80    99.00    99.00
 9  4  1  6    15.0 1   252.0     1.00    10.50    99.00    99.00
 9  4  1  7    15.0 1   223.0     1.00    10.60    99.00    99.00
 9  4  1  8    15.0 1   352.0     4.10    12.60    99.00    99.00
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 9  4  1  9    15.0 1   346.0     4.10    14.10    99.00    99.00
 9  4  1 10    15.0 1   352.0     3.60    15.50    99.00    99.00
 9  4  1 11    15.0 1   345.0     3.60    16.90    99.00    99.00
 9  4  1 12    15.0 1   337.0     4.10    17.90    99.00    99.00
 9  4  1 13    15.0 1   338.0     4.10    18.60    99.00    99.00
 9  4  1 14    15.0 1   341.0     3.60    19.50    99.00    99.00
 9  4  1 15    15.0 1   338.0     2.60    20.10    99.00    99.00
 9  4  1 16    15.0 1   344.0     2.10    20.40    99.00    99.00
 9  4  1 17    15.0 1   328.0     1.50    20.50    99.00    99.00
 9  4  1 18    15.0 1   292.0     0.50    20.10    99.00    99.00
 9  4  1 19    15.0 1   295.0     1.00    18.80    99.00    99.00
 9  4  1 20    15.0 1   300.0     1.00    17.40    99.00    99.00
 9  4  1 21    15.0 1   302.0     0.50    16.30    99.00    99.00
 9  4  1 22    15.0 1    75.0     0.50    15.30    99.00    99.00
 9  4  1 23    15.0 1    98.0     1.00    14.10    99.00    99.00
 9  4  1 24    15.0 1   105.0     0.50    13.30    99.00    99.00
 9  4  2  1    15.0 1     0.0     0.00    12.50    99.00    99.00
 9  4  2  2    15.0 1   325.0     0.50    11.90    99.00    99.00
 9  4  2  3    15.0 1   319.0     1.00    11.50    99.00    99.00
 9  4  2  4    15.0 1   317.0     1.00    11.10    99.00    99.00
 9  4  2  5    15.0 1   324.0     0.50    10.60    99.00    99.00
 9  4  2  6    15.0 1   312.0     0.50    10.30    99.00    99.00
 9  4  2  7    15.0 1   297.0     0.50    10.10    99.00    99.00
 9  4  2  8    15.0 1   340.0     1.50    12.10    99.00    99.00
 9  4  2  9    15.0 1   319.0     0.50    14.40    99.00    99.00
 9  4  2 10    15.0 1   311.0     1.00    16.10    99.00    99.00
 9  4  2 11    15.0 1   314.0     1.50    17.90    99.00    99.00
 9  4  2 12    15.0 1   331.0     2.10    19.10    99.00    99.00
 9  4  2 13    15.0 1   329.0     3.10    20.30    99.00    99.00
 9  4  2 14    15.0 1   337.0     4.60    20.80    99.00    99.00
 9  4  2 15    15.0 1   340.0     6.20    20.60    99.00    99.00
 9  4  2 16    15.0 1   339.0     7.20    19.80    99.00    99.00
 9  4  2 17    15.0 1   340.0     8.20    18.10    99.00    99.00
 9  4  2 18    15.0 1   335.0     7.70    15.50    99.00    99.00
 9  4  2 19    15.0 1   334.0     7.70    13.30    99.00    99.00
 9  4  2 20    15.0 1   326.0     6.70    12.00    99.00    99.00
 9  4  2 21    15.0 1   329.0     5.10    11.30    99.00    99.00
 9  4  2 22    15.0 1   319.0     4.10    10.90    99.00    99.00
 9  4  2 23    15.0 1   308.0     3.60    10.60    99.00    99.00
 9  4  2 24    15.0 1   306.0     3.60    10.90    99.00    99.00
 9  4  3  1    15.0 1   300.0     2.60    11.00    99.00    99.00
 9  4  3  2    15.0 1   302.0     2.10    11.00    99.00    99.00
 9  4  3  3    15.0 1   316.0     3.60    10.60    99.00    99.00
 9  4  3  4    15.0 1   326.0     4.60    10.10    99.00    99.00
 9  4  3  5    15.0 1   328.0     4.10     9.10    99.00    99.00
 9  4  3  6    15.0 1   325.0     3.10     8.00    99.00    99.00
 9  4  3  7    15.0 1   330.0     6.20     8.40    99.00    99.00
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 9  4  3  9    15.0 1   333.0     7.70    11.10    99.00    99.00
 9  4  3 10    15.0 1   333.0     8.70    12.60    99.00    99.00
 9  4  3 11    15.0 1   328.0     9.80    13.40    99.00    99.00
 9  4  3 12    15.0 1   334.0     9.80    14.30    99.00    99.00
 9  4  3 13    15.0 1   332.0     9.80    15.10    99.00    99.00
 9  4  3 14    15.0 1   317.0     9.30    15.60    99.00    99.00
 9  4  3 15    15.0 1   325.0     8.70    15.90    99.00    99.00
 9  4  3 16    15.0 1   323.0     8.20    15.90    99.00    99.00
 9  4  3 17    15.0 1   323.0     5.10    15.10    99.00    99.00
 9  4  3 18    15.0 1   296.0     4.60    13.60    99.00    99.00
 9  4  3 19    15.0 1   299.0     4.10    12.10    99.00    99.00
 9  4  3 20    15.0 1   297.0     3.60    11.10    99.00    99.00
 9  4  3 21    15.0 1   311.0     2.10    10.60    99.00    99.00
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 9  4  3 23    15.0 1    88.0     1.00     9.90    99.00    99.00
 9  4  3 24    15.0 1    33.0     0.50     9.60    99.00    99.00
 9  4  4  1    15.0 1   263.0     0.50     8.90    99.00    99.00
 9  4  4  2    15.0 1   232.0     2.10     8.10    99.00    99.00
 9  4  4  3    15.0 1   242.0     3.10     7.60    99.00    99.00
 9  4  4  4    15.0 1   260.0     3.60     6.60    99.00    99.00
 9  4  4  5    15.0 1   278.0     4.10     5.90    99.00    99.00
 9  4  4  6    15.0 1   287.0     4.10     5.10    99.00    99.00
 9  4  4  7    15.0 1   311.0     4.10     5.80    99.00    99.00
 9  4  4  8    15.0 1   334.0     3.60     8.00    99.00    99.00
 9  4  4  9    15.0 1   326.0     1.00     9.80    99.00    99.00
 9  4  4 10    15.0 1     0.0     0.00    11.30    99.00    99.00
 9  4  4 11    15.0 1     0.0     0.00    12.60    99.00    99.00
 9  4  4 12    15.0 1   255.0     0.50    14.10    99.00    99.00
 9  4  4 13    15.0 1     0.0     0.00    15.50    99.00    99.00
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 9  4  4 14    15.0 1     0.0     0.00    16.50    99.00    99.00
 9  4  4 15    15.0 1   318.0     1.00    17.10    99.00    99.00
 9  4  4 16    15.0 1   326.0     1.50    17.40    99.00    99.00
 9  4  4 17    15.0 1   344.0     2.10    17.30    99.00    99.00
 9  4  4 18    15.0 1   336.0     2.10    16.60    99.00    99.00
 9  4  4 19    15.0 1   336.0     2.10    15.50    99.00    99.00
 9  4  4 20    15.0 1   355.0     0.50    14.10    99.00    99.00
 9  4  4 21    15.0 1     0.0     0.00    12.60    99.00    99.00
 9  4  4 22    15.0 1     0.0     0.00    11.30    99.00    99.00
 9  4  4 23    15.0 1    80.0     0.50    10.10    99.00    99.00
 9  4  4 24    15.0 1   104.0     1.00     9.50    99.00    99.00
 9  4  5  1    15.0 1   155.0     1.00     9.10    99.00    99.00
 9  4  5  2    15.0 1   221.0     1.00     9.10    99.00    99.00
 9  4  5  3    15.0 1   252.0     0.50     8.90    99.00    99.00
 9  4  5  4    15.0 1     4.0     1.00     8.50    99.00    99.00
 9  4  5  5    15.0 1     1.0     1.50     7.80    99.00    99.00
 9  4  5  6    15.0 1   359.0     2.10     7.10    99.00    99.00
 9  4  5  7    15.0 1    15.0     1.50     7.00    99.00    99.00
 9  4  5  8    15.0 1   330.0     0.50    10.60    99.00    99.00
 9  4  5  9    15.0 1   328.0     1.00    13.90    99.00    99.00
 9  4  5 10    15.0 1    14.0     1.00    17.10    99.00    99.00
 9  4  5 11    15.0 1    45.0     1.50    20.10    99.00    99.00
 9  4  5 12    15.0 1    92.0     2.10    22.60    99.00    99.00
 9  4  5 13    15.0 1   123.0     5.10    24.30    99.00    99.00
 9  4  5 14    15.0 1   135.0     7.70    24.80    99.00    99.00
 9  4  5 15    15.0 1   136.0     8.20    24.50    99.00    99.00
 9  4  5 16    15.0 1   150.0     5.70    23.50    99.00    99.00
 9  4  5 17    15.0 1   152.0     5.10    22.40    99.00    99.00
 9  4  5 18    15.0 1   139.0     5.70    20.60    99.00    99.00
 9  4  5 19    15.0 1   132.0     5.70    18.30    99.00    99.00
 9  4  5 20    15.0 1   134.0     4.60    16.60    99.00    99.00
 9  4  5 21    15.0 1   164.0     4.10    15.50    99.00    99.00
 9  4  5 22    15.0 1   169.0     4.10    14.60    99.00    99.00
 9  4  5 23    15.0 1   181.0     4.10    14.10    99.00    99.00
 9  4  5 24    15.0 1   184.0     4.60    14.00    99.00    99.00
 9  4  6  1    15.0 1   186.0     4.10    13.90    99.00    99.00
 9  4  6  2    15.0 1   202.0     3.10    13.80    99.00    99.00
 9  4  6  3    15.0 1   191.0     1.50    13.80    99.00    99.00
 9  4  6  4    15.0 1   324.0     0.50    12.60    99.00    99.00
 9  4  6  5    15.0 1    41.0     1.50    12.10    99.00    99.00
 9  4  6  6    15.0 1    47.0     1.50    11.30    99.00    99.00
 9  4  6  7    15.0 1    55.0     2.10    11.00    99.00    99.00
 9  4  6  8    15.0 1    41.0     1.50    14.00    99.00    99.00
 9  4  6  9    15.0 1     8.0     1.50    17.10    99.00    99.00
 9  4  6 10    15.0 1     0.0     0.00    19.80    99.00    99.00
 9  4  6 11    15.0 1     5.0     1.50    22.10    99.00    99.00
 9  4  6 12    15.0 1   344.0     1.00    24.00    99.00    99.00
 9  4  6 13    15.0 1   328.0     1.00    25.40    99.00    99.00
 9  4  6 14    15.0 1   294.0     0.50    26.40    99.00    99.00
 9  4  6 15    15.0 1   174.0     1.00    27.10    99.00    99.00
 9  4  6 16    15.0 1   152.0     3.10    27.10    99.00    99.00
 9  4  6 17    15.0 1   129.0     2.60    26.10    99.00    99.00
 9  4  6 18    15.0 1    89.0     3.60    24.40    99.00    99.00
 9  4  6 19    15.0 1    94.0     3.60    22.10    99.00    99.00
 9  4  6 20    15.0 1   268.0     4.60    20.00    99.00    99.00
 9  4  6 21    15.0 1   290.0     6.20    17.10    99.00    99.00
 9  4  6 22    15.0 1   302.0     4.10    15.40    99.00    99.00
 9  4  6 23    15.0 1   303.0     4.10    13.90    99.00    99.00
 9  4  6 24    15.0 1   306.0     3.60    13.30    99.00    99.00
 9  4  7  1    15.0 1   343.0     3.60    13.00    99.00    99.00
 9  4  7  2    15.0 1    13.0     4.10    12.50    99.00    99.00
 9  4  7  3    15.0 1    13.0     4.10    12.00    99.00    99.00
 9  4  7  4    15.0 1    14.0     4.10    11.60    99.00    99.00
 9  4  7  5    15.0 1     7.0     4.10    11.10    99.00    99.00
 9  4  7  6    15.0 1    10.0     3.60    10.60    99.00    99.00
 9  4  7  7    15.0 1     0.0     0.00    11.30    99.00    99.00
 9  4  7  8    15.0 1   354.0     1.50    13.60    99.00    99.00
 9  4  7  9    15.0 1    38.0     0.50    16.10    99.00    99.00
 9  4  7 10    15.0 1    88.0     0.50    18.50    99.00    99.00
 9  4  7 11    15.0 1     0.0     0.00    20.30    99.00    99.00
 9  4  7 12    15.0 1     0.0     0.00    21.60    99.00    99.00
 9  4  7 13    15.0 1   236.0     3.10    22.60    99.00    99.00
 9  4  7 14    15.0 1   237.0     5.70    21.90    99.00    99.00
 9  4  7 15    15.0 1   241.0     7.20    21.80    99.00    99.00
 9  4  7 16    15.0 1   236.0     8.70    21.10    99.00    99.00
 9  4  7 17    15.0 1   249.0     7.20    19.50    99.00    99.00
 9  4  7 18    15.0 1   253.0     6.20    17.10    99.00    99.00
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9	4	7	19	15.0	1	250.0	5.70	15.10	99.00	99.00
9	4	7	20	15.0	1	254.0	3.60	14.30	99.00	99.00
9	4	7	21	15.0	1	248.0	0.50	13.90	99.00	99.00
9	4	7	22	15.0	1	33.0	1.00	13.40	99.00	99.00
9	4	7	23	15.0	1	22.0	1.50	12.80	99.00	99.00
9	4	7	24	15.0	1	15.0	1.00	12.10	99.00	99.00
9	4	8	1	15.0	1	239.0	0.50	12.00	99.00	99.00
9	4	8	2	15.0	1	219.0	2.10	11.80	99.00	99.00
9	4	8	3	15.0	1	208.0	3.60	11.10	99.00	99.00
9	4	8	4	15.0	1	216.0	3.10	10.30	99.00	99.00
9	4	8	5	15.0	1	249.0	2.60	9.80	99.00	99.00
9	4	8	6	15.0	1	268.0	2.60	9.50	99.00	99.00
9	4	8	7	15.0	1	280.0	3.10	10.30	99.00	99.00
9	4	8	8	15.0	1	287.0	4.60	12.30	99.00	99.00
9	4	8	9	15.0	1	294.0	4.60	13.50	99.00	99.00
9	4	8	10	15.0	1	301.0	3.60	14.50	99.00	99.00
9	4	8	11	15.0	1	310.0	2.60	15.40	99.00	99.00
9	4	8	12	15.0	1	323.0	2.10	16.30	99.00	99.00
9	4	8	13	15.0	1	342.0	2.10	17.00	99.00	99.00
9	4	8	14	15.0	1	352.0	2.10	17.60	99.00	99.00
9	4	8	15	15.0	1	357.0	2.10	18.10	99.00	99.00
9	4	8	16	15.0	1	347.0	2.60	18.10	99.00	99.00
9	4	8	17	15.0	1	354.0	2.60	18.10	99.00	99.00
9	4	8	18	15.0	1	347.0	2.10	17.60	99.00	99.00
9	4	8	19	15.0	1	322.0	2.10	16.90	99.00	99.00
9	4	8	20	15.0	1	280.0	4.10	15.10	99.00	99.00
9	4	8	21	15.0	1	268.0	4.60	12.90	99.00	99.00
9	4	8	22	15.0	1	269.0	3.60	11.90	99.00	99.00
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9	4	8	24	15.0	1	258.0	1.00	10.60	99.00	99.00
9	4	9	1	15.0	1	258.0	1.50	10.10	99.00	99.00
9	4	9	2	15.0	1	273.0	2.60	9.60	99.00	99.00
9	4	9	3	15.0	1	274.0	2.10	9.60	99.00	99.00
9	4	9	4	15.0	1	261.0	0.50	9.60	99.00	99.00
9	4	9	5	15.0	1	198.0	0.50	9.60	99.00	99.00
9	4	9	6	15.0	1	0.0	0.00	9.90	99.00	99.00
9	4	9	7	15.0	1	0.0	0.00	10.10	99.00	99.00
9	4	9	8	15.0	1	285.0	0.50	10.50	99.00	99.00
9	4	9	9	15.0	1	222.0	0.50	11.00	99.00	99.00
9	4	9	10	15.0	1	187.0	0.50	11.80	99.00	99.00
9	4	9	11	15.0	1	0.0	0.00	12.60	99.00	99.00
9	4	9	12	15.0	1	0.0	0.00	13.60	99.00	99.00
9	4	9	13	15.0	1	0.0	0.00	14.10	99.00	99.00
9	4	9	14	15.0	1	0.0	0.00	14.10	99.00	99.00
9	4	9	15	15.0	1	0.0	0.00	13.90	99.00	99.00
9	4	9	16	15.0	1	0.0	0.00	13.60	99.00	99.00
9	4	9	17	15.0	1	88.0	1.50	13.10	99.00	99.00
9	4	9	18	15.0	1	97.0	2.10	12.80	99.00	99.00
9	4	9	19	15.0	1	115.0	2.10	12.40	99.00	99.00
9	4	9	20	15.0	1	131.0	2.10	12.10	99.00	99.00
9	4	9	21	15.0	1	155.0	2.10	11.80	99.00	99.00
9	4	9	22	15.0	1	166.0	2.10	11.50	99.00	99.00
9	4	9	23	15.0	1	156.0	2.10	11.30	99.00	99.00
9	4	9	24	15.0	1	150.0	2.10	11.10	99.00	99.00
9	4	10	1	15.0	1	150.0	2.10	11.00	99.00	99.00
9	4	10	2	15.0	1	164.0	2.10	11.00	99.00	99.00
9	4	10	3	15.0	1	158.0	2.10	11.00	99.00	99.00
9	4	10	4	15.0	1	158.0	2.10	11.00	99.00	99.00
9	4	10	5	15.0	1	164.0	2.10	11.00	99.00	99.00
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9	4	10	7	15.0	1	174.0	1.50	11.10	99.00	99.00
9	4	10	8	15.0	1	246.0	1.50	11.60	99.00	99.00
9	4	10	9	15.0	1	294.0	2.10	12.50	99.00	99.00
9	4	10	10	15.0	1	296.0	2.60	13.40	99.00	99.00
9	4	10	11	15.0	1	312.0	3.10	14.10	99.00	99.00
9	4	10	12	15.0	1	304.0	3.10	15.10	99.00	99.00
9	4	10	13	15.0	1	301.0	3.60	16.10	99.00	99.00
9	4	10	14	15.0	1	323.0	4.60	16.60	99.00	99.00
9	4	10	15	15.0	1	338.0	5.10	17.00	99.00	99.00
9	4	10	16	15.0	1	348.0	4.10	17.40	99.00	99.00
9	4	10	17	15.0	1	358.0	4.60	17.30	99.00	99.00
9	4	10	18	15.0	1	31.0	2.60	17.00	99.00	99.00
9	4	10	19	15.0	1	312.0	1.50	15.60	99.00	99.00
9	4	10	20	15.0	1	284.0	2.10	14.60	99.00	99.00
9	4	10	21	15.0	1	309.0	2.10	14.30	99.00	99.00
9	4	10	22	15.0	1	313.0	4.10	13.10	99.00	99.00
9	4	10	23	15.0	1	312.0	4.10	11.50	99.00	99.00

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 9  4 10 24    15.0 1   296.0     3.60    10.40    99.00    99.00
 9  4 11  1    15.0 1   296.0     3.10     9.60    99.00    99.00
 9  4 11  2    15.0 1   290.0     3.10     9.30    99.00    99.00
 9  4 11  3    15.0 1   290.0     2.10     8.90    99.00    99.00
 9  4 11  4    15.0 1   276.0     1.00     8.60    99.00    99.00
 9  4 11  5    15.0 1   254.0     0.50     8.30    99.00    99.00
 9  4 11  6    15.0 1   230.0     1.00     8.00    99.00    99.00
 9  4 11  7    15.0 1   275.0     1.50     8.60    99.00    99.00
 9  4 11  8    15.0 1   320.0     1.50    10.00    99.00    99.00
 9  4 11  9    15.0 1     0.0     0.00    10.90    99.00    99.00
 9  4 11 10    15.0 1     0.0     0.00    12.10    99.00    99.00
 9  4 11 11    15.0 1     0.0     0.00    13.10    99.00    99.00
 9  4 11 12    15.0 1     0.0     0.00    14.50    99.00    99.00
 9  4 11 13    15.0 1     0.0     0.00    15.90    99.00    99.00
 9  4 11 14    15.0 1   324.0     1.00    17.10    99.00    99.00
 9  4 11 15    15.0 1   344.0     2.60    17.90    99.00    99.00
 9  4 11 16    15.0 1   342.0     4.60    18.10    99.00    99.00
 9  4 11 17    15.0 1   353.0     5.10    18.00    99.00    99.00
 9  4 11 18    15.0 1   341.0     3.60    17.10    99.00    99.00
 9  4 11 19    15.0 1   318.0     4.10    16.10    99.00    99.00
 9  4 11 20    15.0 1   316.0     4.10    14.90    99.00    99.00
 9  4 11 21    15.0 1   306.0     3.10    14.00    99.00    99.00
 9  4 11 22    15.0 1   319.0     1.50    13.30    99.00    99.00
 9  4 11 23    15.0 1    95.0     0.50    12.50    99.00    99.00
 9  4 11 24    15.0 1   107.0     1.00    11.50    99.00    99.00
 9  4 12  1    15.0 1    26.0     0.50    10.90    99.00    99.00
 9  4 12  2    15.0 1   338.0     0.50    10.40    99.00    99.00
 9  4 12  3    15.0 1   350.0     0.50    10.10    99.00    99.00
 9  4 12  4    15.0 1     0.0     0.00     9.90    99.00    99.00
 9  4 12  5    15.0 1     1.0     0.50     9.50    99.00    99.00
 9  4 12  6    15.0 1   353.0     0.50     9.10    99.00    99.00
 9  4 12  7    15.0 1     0.0     0.00     9.30    99.00    99.00
 9  4 12  8    15.0 1     0.0     0.00    11.40    99.00    99.00
 9  4 12  9    15.0 1     0.0     0.00    12.90    99.00    99.00
 9  4 12 10    15.0 1   281.0     0.50    14.50    99.00    99.00
 9  4 12 11    15.0 1   289.0     0.50    16.10    99.00    99.00
 9  4 12 12    15.0 1   296.0     1.00    17.80    99.00    99.00
 9  4 12 13    15.0 1   306.0     1.50    19.00    99.00    99.00
 9  4 12 14    15.0 1   325.0     2.10    19.90    99.00    99.00
 9  4 12 15    15.0 1   326.0     2.60    20.50    99.00    99.00
 9  4 12 16    15.0 1   337.0     3.10    20.60    99.00    99.00
 9  4 12 17    15.0 1   346.0     3.10    20.60    99.00    99.00
 9  4 12 18    15.0 1   346.0     1.50    20.10    99.00    99.00
 9  4 12 19    15.0 1     0.0     0.00    19.30    99.00    99.00
 9  4 12 20    15.0 1   192.0     0.50    17.90    99.00    99.00
 9  4 12 21    15.0 1   222.0     0.50    16.50    99.00    99.00
 9  4 12 22    15.0 1   240.0     0.50    15.30    99.00    99.00
 9  4 12 23    15.0 1   268.0     0.50    14.60    99.00    99.00
 9  4 12 24    15.0 1   323.0     1.00    13.80    99.00    99.00
 9  4 13  1    15.0 1   353.0     1.50    13.10    99.00    99.00
 9  4 13  2    15.0 1    12.0     1.50    12.60    99.00    99.00
 9  4 13  3    15.0 1    22.0     1.00    12.10    99.00    99.00
 9  4 13  4    15.0 1    51.0     0.50    11.60    99.00    99.00
 9  4 13  5    15.0 1     0.0     0.00    11.30    99.00    99.00
 9  4 13  6    15.0 1     0.0     0.00    11.00    99.00    99.00
 9  4 13  7    15.0 1     0.0     0.00    10.60    99.00    99.00
 9  4 13  8    15.0 1   349.0     1.00    12.10    99.00    99.00
 9  4 13  9    15.0 1     0.0     0.00    13.60    99.00    99.00
 9  4 13 10    15.0 1     0.0     0.00    15.10    99.00    99.00
 9  4 13 11    15.0 1     0.0     0.00    16.40    99.00    99.00
 9  4 13 12    15.0 1   309.0     0.50    17.90    99.00    99.00
 9  4 13 13    15.0 1   321.0     1.00    19.00    99.00    99.00
 9  4 13 14    15.0 1   345.0     1.50    19.60    99.00    99.00
 9  4 13 15    15.0 1   355.0     2.60    19.90    99.00    99.00
 9  4 13 16    15.0 1     3.0     2.60    20.00    99.00    99.00
 9  4 13 17    15.0 1   352.0     2.10    19.90    99.00    99.00
 9  4 13 18    15.0 1   344.0     2.60    19.40    99.00    99.00
 9  4 13 19    15.0 1   334.0     3.60    18.60    99.00    99.00
 9  4 13 20    15.0 1   324.0     4.10    17.50    99.00    99.00
 9  4 13 21    15.0 1   331.0     4.10    16.60    99.00    99.00
 9  4 13 22    15.0 1   345.0     4.60    15.80    99.00    99.00
 9  4 13 23    15.0 1   327.0     5.10    14.60    99.00    99.00
 9  4 13 24    15.0 1   327.0     4.10    13.60    99.00    99.00
 9  4 14  1    15.0 1   334.0     3.10    13.10    99.00    99.00
 9  4 14  2    15.0 1   335.0     3.60    12.60    99.00    99.00
 9  4 14  3    15.0 1   328.0     4.10    12.10    99.00    99.00
 9  4 14  4    15.0 1   327.0     4.60    11.50    99.00    99.00
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 9  4 14  5    15.0 1   335.0     4.60    10.80    99.00    99.00
 9  4 14  6    15.0 1   333.0     5.10    10.10    99.00    99.00
 9  4 14  7    15.0 1   332.0     5.70     9.30    99.00    99.00
 9  4 14  8    15.0 1   333.0     6.20     8.60    99.00    99.00
 9  4 14  9    15.0 1   332.0     5.70     8.60    99.00    99.00
 9  4 14 10    15.0 1   336.0     5.10     9.10    99.00    99.00
 9  4 14 11    15.0 1   343.0     5.10    10.00    99.00    99.00
 9  4 14 12    15.0 1   336.0     6.20    11.90    99.00    99.00
 9  4 14 13    15.0 1   336.0     7.20    13.00    99.00    99.00
 9  4 14 14    15.0 1   330.0     8.70    13.60    99.00    99.00
 9  4 14 15    15.0 1   335.0     9.80    13.80    99.00    99.00
 9  4 14 16    15.0 1   341.0     9.80    13.40    99.00    99.00
 9  4 14 17    15.0 1   338.0     8.20    13.00    99.00    99.00
 9  4 14 18    15.0 1   341.0     4.60    12.00    99.00    99.00
 9  4 14 19    15.0 1   328.0     5.10    11.10    99.00    99.00
 9  4 14 20    15.0 1   327.0     5.70    10.10    99.00    99.00
 9  4 14 21    15.0 1   310.0     5.70     9.10    99.00    99.00
 9  4 14 22    15.0 1   286.0     5.10     8.10    99.00    99.00
 9  4 14 23    15.0 1   284.0     5.70     7.10    99.00    99.00
 9  4 14 24    15.0 1   294.0     5.10     6.40    99.00    99.00
 9  4 15  1    15.0 1   291.0     5.10     6.00    99.00    99.00
 9  4 15  2    15.0 1   288.0     5.10     5.50    99.00    99.00
 9  4 15  3    15.0 1   300.0     4.60     5.10    99.00    99.00
 9  4 15  4    15.0 1   302.0     4.10     4.80    99.00    99.00
 9  4 15  5    15.0 1   315.0     3.60     4.50    99.00    99.00
 9  4 15  6    15.0 1   300.0     2.60     4.30    99.00    99.00
 9  4 15  7    15.0 1   333.0     4.60     5.80    99.00    99.00
 9  4 15  8    15.0 1   332.0     6.70     7.60    99.00    99.00
 9  4 15  9    15.0 1   329.0     7.20     9.10    99.00    99.00
 9  4 15 10    15.0 1   331.0     7.70    10.60    99.00    99.00
 9  4 15 11    15.0 1   330.0     8.70    11.60    99.00    99.00
 9  4 15 12    15.0 1   330.0     9.30    12.50    99.00    99.00
 9  4 15 13    15.0 1   328.0     9.30    13.10    99.00    99.00
 9  4 15 14    15.0 1   331.0     9.30    13.60    99.00    99.00
 9  4 15 15    15.0 1   326.0     9.30    14.10    99.00    99.00
 9  4 15 16    15.0 1   342.0     7.70    14.60    99.00    99.00
 9  4 15 17    15.0 1   337.0     5.10    14.30    99.00    99.00
 9  4 15 18    15.0 1   344.0     3.60    13.30    99.00    99.00
 9  4 15 19    15.0 1   333.0     3.60    12.10    99.00    99.00
 9  4 15 20    15.0 1   324.0     3.60    11.60    99.00    99.00
 9  4 15 21    15.0 1   315.0     3.10    11.30    99.00    99.00
 9  4 15 22    15.0 1   291.0     1.00     9.90    99.00    99.00
 9  4 15 23    15.0 1     0.0     0.00     8.90    99.00    99.00
 9  4 15 24    15.0 1   104.0     0.50     8.50    99.00    99.00
 9  4 16  1    15.0 1     0.0     0.00     8.10    99.00    99.00
 9  4 16  2    15.0 1   247.0     0.50     7.50    99.00    99.00
 9  4 16  3    15.0 1   293.0     0.50     6.90    99.00    99.00
 9  4 16  4    15.0 1   312.0     0.50     6.40    99.00    99.00
 9  4 16  5    15.0 1   305.0     1.00     6.00    99.00    99.00
 9  4 16  6    15.0 1   294.0     1.00     5.60    99.00    99.00
 9  4 16  7    15.0 1   323.0     1.50     6.90    99.00    99.00
 9  4 16  8    15.0 1   333.0     1.50     9.30    99.00    99.00
 9  4 16  9    15.0 1   345.0     1.00    11.10    99.00    99.00
 9  4 16 10    15.0 1   339.0     1.00    12.60    99.00    99.00
 9  4 16 11    15.0 1   321.0     0.50    14.10    99.00    99.00
 9  4 16 12    15.0 1   329.0     1.00    15.60    99.00    99.00
 9  4 16 13    15.0 1   338.0     1.50    17.00    99.00    99.00
 9  4 16 14    15.0 1   355.0     2.10    17.90    99.00    99.00
 9  4 16 15    15.0 1   355.0     2.60    18.50    99.00    99.00
 9  4 16 16    15.0 1   355.0     3.60    18.60    99.00    99.00
 9  4 16 17    15.0 1   346.0     3.60    18.50    99.00    99.00
 9  4 16 18    15.0 1   351.0     2.60    18.00    99.00    99.00
 9  4 16 19    15.0 1   348.0     2.60    17.10    99.00    99.00
 9  4 16 20    15.0 1   339.0     2.10    16.00    99.00    99.00
 9  4 16 21    15.0 1   326.0     1.00    14.80    99.00    99.00
 9  4 16 22    15.0 1   175.0     0.50    13.50    99.00    99.00
 9  4 16 23    15.0 1   138.0     1.00    12.40    99.00    99.00
 9  4 16 24    15.0 1   117.0     1.50    11.40    99.00    99.00
 9  4 17  1    15.0 1   139.0     0.50    10.80    99.00    99.00
 9  4 17  2    15.0 1   279.0     0.50    10.10    99.00    99.00
 9  4 17  3    15.0 1   306.0     1.50     9.60    99.00    99.00
 9  4 17  4    15.0 1   307.0     1.50     9.10    99.00    99.00
 9  4 17  5    15.0 1   310.0     1.50     8.60    99.00    99.00
 9  4 17  6    15.0 1   289.0     1.50     8.10    99.00    99.00
 9  4 17  7    15.0 1   316.0     2.60     9.40    99.00    99.00
 9  4 17  8    15.0 1   320.0     1.50    11.30    99.00    99.00
 9  4 17  9    15.0 1   277.0     0.50    13.50    99.00    99.00
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 9  4 17 10    15.0 1     0.0     0.00    15.40    99.00    99.00
 9  4 17 11    15.0 1     0.0     0.00    17.10    99.00    99.00
 9  4 17 12    15.0 1     0.0     0.00    18.80    99.00    99.00
 9  4 17 13    15.0 1     0.0     0.00    20.10    99.00    99.00
 9  4 17 14    15.0 1   345.0     0.50    21.00    99.00    99.00
 9  4 17 15    15.0 1   352.0     1.00    21.60    99.00    99.00
 9  4 17 16    15.0 1   349.0     2.10    21.90    99.00    99.00
 9  4 17 17    15.0 1     2.0     2.60    21.80    99.00    99.00
 9  4 17 18    15.0 1     3.0     2.60    21.10    99.00    99.00
 9  4 17 19    15.0 1     0.0     0.00    20.10    99.00    99.00
 9  4 17 20    15.0 1    10.0     1.50    18.90    99.00    99.00
 9  4 17 21    15.0 1    89.0     0.50    17.40    99.00    99.00
 9  4 17 22    15.0 1   185.0     0.50    15.90    99.00    99.00
 9  4 17 23    15.0 1   192.0     0.50    14.60    99.00    99.00
 9  4 17 24    15.0 1   285.0     0.50    13.80    99.00    99.00
 9  4 18  1    15.0 1   289.0     1.00    13.10    99.00    99.00
 9  4 18  2    15.0 1   299.0     2.10    12.50    99.00    99.00
 9  4 18  3    15.0 1   288.0     1.50    11.90    99.00    99.00
 9  4 18  4    15.0 1   277.0     1.50    11.40    99.00    99.00
 9  4 18  5    15.0 1   274.0     2.10    11.10    99.00    99.00
 9  4 18  6    15.0 1   268.0     2.10    10.80    99.00    99.00
 9  4 18  7    15.0 1   295.0     2.10    11.80    99.00    99.00
 9  4 18  8    15.0 1   302.0     1.50    14.10    99.00    99.00
 9  4 18  9    15.0 1   268.0     0.50    16.50    99.00    99.00
 9  4 18 10    15.0 1   274.0     1.00    18.60    99.00    99.00
 9  4 18 11    15.0 1   284.0     0.50    20.60    99.00    99.00
 9  4 18 12    15.0 1     0.0     0.00    22.40    99.00    99.00
 9  4 18 13    15.0 1     0.0     0.00    23.80    99.00    99.00
 9  4 18 14    15.0 1     5.0     0.50    24.90    99.00    99.00
 9  4 18 15    15.0 1     0.0     0.00    25.50    99.00    99.00
 9  4 18 16    15.0 1    15.0     2.10    25.60    99.00    99.00
 9  4 18 17    15.0 1    21.0     2.60    25.10    99.00    99.00
 9  4 18 18    15.0 1    35.0     3.10    24.40    99.00    99.00
 9  4 18 19    15.0 1    19.0     2.60    23.10    99.00    99.00
 9  4 18 20    15.0 1    19.0     0.50    21.60    99.00    99.00
 9  4 18 21    15.0 1   209.0     0.50    19.90    99.00    99.00
 9  4 18 22    15.0 1     0.0     0.00    18.40    99.00    99.00
 9  4 18 23    15.0 1    73.0     0.50    17.00    99.00    99.00
 9  4 18 24    15.0 1   120.0     1.00    16.00    99.00    99.00
 9  4 19  1    15.0 1   235.0     0.50    15.40    99.00    99.00
 9  4 19  2    15.0 1   269.0     1.00    14.60    99.00    99.00
 9  4 19  3    15.0 1   289.0     1.50    14.10    99.00    99.00
 9  4 19  4    15.0 1   310.0     2.10    13.80    99.00    99.00
 9  4 19  5    15.0 1   320.0     2.10    13.30    99.00    99.00
 9  4 19  6    15.0 1   325.0     1.00    12.60    99.00    99.00
 9  4 19  7    15.0 1   276.0     1.00    13.40    99.00    99.00
 9  4 19  8    15.0 1   295.0     1.50    16.60    99.00    99.00
 9  4 19  9    15.0 1   293.0     1.50    19.10    99.00    99.00
 9  4 19 10    15.0 1   297.0     0.50    22.10    99.00    99.00
 9  4 19 11    15.0 1     0.0     0.00    24.60    99.00    99.00
 9  4 19 12    15.0 1   338.0     0.50    26.30    99.00    99.00
 9  4 19 13    15.0 1    11.0     0.50    27.90    99.00    99.00
 9  4 19 14    15.0 1    26.0     0.50    28.80    99.00    99.00
 9  4 19 15    15.0 1    26.0     1.50    29.30    99.00    99.00
 9  4 19 16    15.0 1    28.0     2.60    29.30    99.00    99.00
 9  4 19 17    15.0 1    30.0     3.10    28.10    99.00    99.00
 9  4 19 18    15.0 1    26.0     4.10    26.80    99.00    99.00
 9  4 19 19    15.0 1    43.0     4.60    25.40    99.00    99.00
 9  4 19 20    15.0 1    48.0     4.60    24.30    99.00    99.00
 9  4 19 21    15.0 1    75.0     3.60    22.80    99.00    99.00
 9  4 19 22    15.0 1   134.0     2.10    21.40    99.00    99.00
 9  4 19 23    15.0 1   180.0     1.50    20.60    99.00    99.00
 9  4 19 24    15.0 1   189.0     0.50    19.80    99.00    99.00
 9  4 20  1    15.0 1     0.0     0.00    18.60    99.00    99.00
 9  4 20  2    15.0 1     0.0     0.00    17.40    99.00    99.00
 9  4 20  3    15.0 1     0.0     0.00    16.40    99.00    99.00
 9  4 20  4    15.0 1   303.0     0.50    15.40    99.00    99.00
 9  4 20  5    15.0 1   315.0     1.50    14.50    99.00    99.00
 9  4 20  6    15.0 1   314.0     2.10    14.00    99.00    99.00
 9  4 20  7    15.0 1   299.0     2.10    14.80    99.00    99.00
 9  4 20  8    15.0 1   298.0     2.10    18.80    99.00    99.00
 9  4 20  9    15.0 1   283.0     1.50    21.00    99.00    99.00
 9  4 20 10    15.0 1   274.0     0.50    24.00    99.00    99.00
 9  4 20 11    15.0 1     0.0     0.00    26.80    99.00    99.00
 9  4 20 12    15.0 1     0.0     0.00    28.80    99.00    99.00
 9  4 20 13    15.0 1    26.0     0.50    30.10    99.00    99.00
 9  4 20 14    15.0 1    16.0     0.50    31.10    99.00    99.00
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9	4	20	15	15.0	1	13.0	1.50	31.60	99.00	99.00
9	4	20	16	15.0	1	0.0	0.00	31.80	99.00	99.00
9	4	20	17	15.0	1	22.0	3.60	30.10	99.00	99.00
9	4	20	18	15.0	1	19.0	4.10	28.00	99.00	99.00
9	4	20	19	15.0	1	33.0	4.60	27.00	99.00	99.00
9	4	20	20	15.0	1	26.0	3.60	26.30	99.00	99.00
9	4	20	21	15.0	1	282.0	3.10	24.60	99.00	99.00
9	4	20	22	15.0	1	268.0	4.60	22.90	99.00	99.00
9	4	20	23	15.0	1	291.0	3.10	21.80	99.00	99.00
9	4	20	24	15.0	1	295.0	2.10	21.10	99.00	99.00
9	4	21	1	15.0	1	260.0	1.50	20.30	99.00	99.00
9	4	21	2	15.0	1	235.0	1.50	19.60	99.00	99.00
9	4	21	3	15.0	1	243.0	2.10	19.10	99.00	99.00
9	4	21	4	15.0	1	266.0	2.60	19.10	99.00	99.00
9	4	21	5	15.0	1	288.0	2.60	18.60	99.00	99.00
9	4	21	6	15.0	1	286.0	3.10	18.00	99.00	99.00
9	4	21	7	15.0	1	287.0	2.60	17.80	99.00	99.00
9	4	21	8	15.0	1	299.0	2.60	20.10	99.00	99.00
9	4	21	9	15.0	1	287.0	1.50	21.60	99.00	99.00
9	4	21	10	15.0	1	284.0	1.00	23.90	99.00	99.00
9	4	21	11	15.0	1	260.0	0.50	26.30	99.00	99.00
9	4	21	12	15.0	1	0.0	0.00	28.50	99.00	99.00
9	4	21	13	15.0	1	0.0	0.00	30.10	99.00	99.00
9	4	21	14	15.0	1	58.0	0.50	31.10	99.00	99.00
9	4	21	15	15.0	1	63.0	1.00	31.60	99.00	99.00
9	4	21	16	15.0	1	59.0	2.10	31.10	99.00	99.00
9	4	21	17	15.0	1	74.0	2.60	30.30	99.00	99.00
9	4	21	18	15.0	1	74.0	2.10	29.10	99.00	99.00
9	4	21	19	15.0	1	0.0	0.00	28.00	99.00	99.00
9	4	21	20	15.0	1	248.0	2.10	26.60	99.00	99.00
9	4	21	21	15.0	1	269.0	3.60	25.80	99.00	99.00
9	4	21	22	15.0	1	300.0	3.60	24.30	99.00	99.00
9	4	21	23	15.0	1	339.0	3.60	23.30	99.00	99.00
9	4	21	24	15.0	1	337.0	3.60	22.30	99.00	99.00
9	4	22	1	15.0	1	320.0	3.60	21.30	99.00	99.00
9	4	22	2	15.0	1	320.0	2.10	20.60	99.00	99.00
9	4	22	3	15.0	1	46.0	2.60	20.10	99.00	99.00
9	4	22	4	15.0	1	27.0	2.10	19.60	99.00	99.00
9	4	22	5	15.0	1	350.0	0.50	19.30	99.00	99.00
9	4	22	6	15.0	1	217.0	0.50	18.60	99.00	99.00
9	4	22	7	15.0	1	245.0	1.50	19.30	99.00	99.00
9	4	22	8	15.0	1	241.0	1.00	21.30	99.00	99.00
9	4	22	9	15.0	1	176.0	0.50	23.30	99.00	99.00
9	4	22	10	15.0	1	174.0	1.00	25.00	99.00	99.00
9	4	22	11	15.0	1	169.0	1.00	26.60	99.00	99.00
9	4	22	12	15.0	1	151.0	0.50	28.10	99.00	99.00
9	4	22	13	15.0	1	0.0	0.00	29.50	99.00	99.00
9	4	22	14	15.0	1	4.0	0.50	30.40	99.00	99.00
9	4	22	15	15.0	1	0.0	0.00	31.10	99.00	99.00
9	4	22	16	15.0	1	341.0	1.50	31.60	99.00	99.00
9	4	22	17	15.0	1	289.0	2.60	30.60	99.00	99.00
9	4	22	18	15.0	1	273.0	5.10	27.40	99.00	99.00
9	4	22	19	15.0	1	249.0	4.60	23.90	99.00	99.00
9	4	22	20	15.0	1	264.0	3.60	21.80	99.00	99.00
9	4	22	21	15.0	1	306.0	2.60	20.90	99.00	99.00
9	4	22	22	15.0	1	8.0	3.10	20.30	99.00	99.00
9	4	22	23	15.0	1	34.0	3.60	19.40	99.00	99.00
9	4	22	24	15.0	1	37.0	3.60	18.50	99.00	99.00
9	4	23	1	15.0	1	16.0	3.10	17.80	99.00	99.00
9	4	23	2	15.0	1	360.0	2.10	17.00	99.00	99.00
9	4	23	3	15.0	1	320.0	1.00	16.30	99.00	99.00
9	4	23	4	15.0	1	0.0	0.00	15.80	99.00	99.00
9	4	23	5	15.0	1	350.0	0.50	15.40	99.00	99.00
9	4	23	6	15.0	1	341.0	0.50	15.10	99.00	99.00
9	4	23	7	15.0	1	290.0	1.00	15.40	99.00	99.00
9	4	23	8	15.0	1	285.0	2.60	16.60	99.00	99.00
9	4	23	9	15.0	1	268.0	1.00	18.30	99.00	99.00
9	4	23	10	15.0	1	0.0	0.00	20.10	99.00	99.00
9	4	23	11	15.0	1	0.0	0.00	22.00	99.00	99.00
9	4	23	12	15.0	1	0.0	0.00	23.80	99.00	99.00
9	4	23	13	15.0	1	332.0	0.50	25.10	99.00	99.00
9	4	23	14	15.0	1	337.0	1.00	26.10	99.00	99.00
9	4	23	15	15.0	1	351.0	1.50	26.60	99.00	99.00
9	4	23	16	15.0	1	339.0	2.10	26.90	99.00	99.00
9	4	23	17	15.0	1	331.0	2.10	26.50	99.00	99.00
9	4	23	18	15.0	1	289.0	3.60	25.40	99.00	99.00
9	4	23	19	15.0	1	266.0	5.10	21.60	99.00	99.00

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 9  4 23 20    15.0 1   275.0     5.10    18.60    99.00    99.00
 9  4 23 21    15.0 1   257.0     5.10    17.00    99.00    99.00
 9  4 23 22    15.0 1   270.0     4.60    15.90    99.00    99.00
 9  4 23 23    15.0 1   272.0     3.60    15.00    99.00    99.00
 9  4 23 24    15.0 1   290.0     0.50    14.60    99.00    99.00
 9  4 24  1    15.0 1    84.0     2.10    14.60    99.00    99.00
 9  4 24  2    15.0 1    92.0     2.10    14.60    99.00    99.00
 9  4 24  3    15.0 1   131.0     1.00    14.30    99.00    99.00
 9  4 24  4    15.0 1   206.0     1.00    14.10    99.00    99.00
 9  4 24  5    15.0 1   227.0     1.00    13.60    99.00    99.00
 9  4 24  6    15.0 1   241.0     1.00    13.40    99.00    99.00
 9  4 24  7    15.0 1   276.0     3.10    14.10    99.00    99.00
 9  4 24  8    15.0 1   291.0     1.50    15.80    99.00    99.00
 9  4 24  9    15.0 1   286.0     0.50    17.10    99.00    99.00
 9  4 24 10    15.0 1     0.0     0.00    18.30    99.00    99.00
 9  4 24 11    15.0 1     0.0     0.00    19.50    99.00    99.00
 9  4 24 12    15.0 1   293.0     0.50    20.60    99.00    99.00
 9  4 24 13    15.0 1   319.0     0.50    21.60    99.00    99.00
 9  4 24 14    15.0 1   322.0     1.50    22.30    99.00    99.00
 9  4 24 15    15.0 1   318.0     3.10    22.40    99.00    99.00
 9  4 24 16    15.0 1   330.0     4.60    21.90    99.00    99.00
 9  4 24 17    15.0 1   342.0     3.60    21.00    99.00    99.00
 9  4 24 18    15.0 1   342.0     3.60    20.10    99.00    99.00
 9  4 24 19    15.0 1   341.0     4.10    19.10    99.00    99.00
 9  4 24 20    15.0 1   329.0     3.60    18.10    99.00    99.00
 9  4 24 21    15.0 1   298.0     4.10    16.80    99.00    99.00
 9  4 24 22    15.0 1   300.0     4.60    14.40    99.00    99.00
 9  4 24 23    15.0 1   305.0     4.10    12.60    99.00    99.00
 9  4 24 24    15.0 1   300.0     3.60    11.40    99.00    99.00
 9  4 25  1    15.0 1   302.0     3.60    10.60    99.00    99.00
 9  4 25  2    15.0 1   298.0     3.10     9.80    99.00    99.00
 9  4 25  3    15.0 1   298.0     3.10     9.10    99.00    99.00
 9  4 25  4    15.0 1   296.0     2.60     8.80    99.00    99.00
 9  4 25  5    15.0 1   292.0     2.60     8.40    99.00    99.00
 9  4 25  6    15.0 1   284.0     1.50     8.10    99.00    99.00
 9  4 25  7    15.0 1   338.0     3.60    10.00    99.00    99.00
 9  4 25  8    15.0 1   350.0     3.10    11.60    99.00    99.00
 9  4 25  9    15.0 1   350.0     1.50    12.90    99.00    99.00
 9  4 25 10    15.0 1   344.0     1.00    14.10    99.00    99.00
 9  4 25 11    15.0 1   331.0     1.00    15.50    99.00    99.00
 9  4 25 12    15.0 1   320.0     1.50    16.80    99.00    99.00
 9  4 25 13    15.0 1   323.0     2.60    17.90    99.00    99.00
 9  4 25 14    15.0 1   335.0     4.10    18.60    99.00    99.00
 9  4 25 15    15.0 1   341.0     5.10    19.10    99.00    99.00
 9  4 25 16    15.0 1   342.0     5.10    18.90    99.00    99.00
 9  4 25 17    15.0 1   339.0     4.10    18.60    99.00    99.00
 9  4 25 18    15.0 1   354.0     3.10    17.80    99.00    99.00
 9  4 25 19    15.0 1   354.0     3.10    17.00    99.00    99.00
 9  4 25 20    15.0 1   350.0     2.10    16.00    99.00    99.00
 9  4 25 21    15.0 1   301.0     0.50    14.90    99.00    99.00
 9  4 25 22    15.0 1   196.0     1.50    13.30    99.00    99.00
 9  4 25 23    15.0 1   197.0     2.60    11.40    99.00    99.00
 9  4 25 24    15.0 1   194.0     2.10    10.60    99.00    99.00
 9  4 26  1    15.0 1   189.0     1.00    10.00    99.00    99.00
 9  4 26  2    15.0 1     0.0     0.00     9.50    99.00    99.00
 9  4 26  3    15.0 1   328.0     0.50     8.90    99.00    99.00
 9  4 26  4    15.0 1   322.0     1.00     8.40    99.00    99.00
 9  4 26  5    15.0 1   320.0     1.00     8.00    99.00    99.00
 9  4 26  6    15.0 1   312.0     1.00     7.60    99.00    99.00
 9  4 26  7    15.0 1   345.0     1.50     9.00    99.00    99.00
 9  4 26  8    15.0 1     0.0     0.00    11.00    99.00    99.00
 9  4 26  9    15.0 1     0.0     0.00    13.30    99.00    99.00
 9  4 26 10    15.0 1     0.0     0.00    15.30    99.00    99.00
 9  4 26 11    15.0 1     0.0     0.00    17.10    99.00    99.00
 9  4 26 12    15.0 1     0.0     0.00    18.60    99.00    99.00
 9  4 26 13    15.0 1     0.0     0.00    19.90    99.00    99.00
 9  4 26 14    15.0 1   314.0     0.50    21.00    99.00    99.00
 9  4 26 15    15.0 1   340.0     1.50    21.60    99.00    99.00
 9  4 26 16    15.0 1   354.0     2.60    21.80    99.00    99.00
 9  4 26 17    15.0 1     5.0     3.10    21.60    99.00    99.00
 9  4 26 18    15.0 1    15.0     3.10    20.60    99.00    99.00
 9  4 26 19    15.0 1     6.0     3.10    19.80    99.00    99.00
 9  4 26 20    15.0 1   346.0     2.10    18.60    99.00    99.00
 9  4 26 21    15.0 1   278.0     1.50    17.10    99.00    99.00
 9  4 26 22    15.0 1   247.0     3.60    15.10    99.00    99.00
 9  4 26 23    15.0 1   247.0     3.10    13.60    99.00    99.00
 9  4 26 24    15.0 1   258.0     2.10    12.90    99.00    99.00
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 9  4 27  1    15.0 1   259.0     2.10    12.10    99.00    99.00
 9  4 27  2    15.0 1   260.0     1.50    11.60    99.00    99.00
 9  4 27  3    15.0 1   279.0     2.10    11.10    99.00    99.00
 9  4 27  4    15.0 1   290.0     2.10    10.50    99.00    99.00
 9  4 27  5    15.0 1   297.0     2.10    10.00    99.00    99.00
 9  4 27  6    15.0 1   311.0     2.10     9.50    99.00    99.00
 9  4 27  7    15.0 1   329.0     3.10    10.30    99.00    99.00
 9  4 27  8    15.0 1   337.0     2.10    11.90    99.00    99.00
 9  4 27  9    15.0 1   325.0     1.00    13.50    99.00    99.00
 9  4 27 10    15.0 1     0.0     0.00    15.00    99.00    99.00
 9  4 27 11    15.0 1     0.0     0.00    16.60    99.00    99.00
 9  4 27 12    15.0 1     0.0     0.00    18.10    99.00    99.00
 9  4 27 13    15.0 1     0.0     0.00    19.30    99.00    99.00
 9  4 27 14    15.0 1   306.0     0.50    20.30    99.00    99.00
 9  4 27 15    15.0 1   320.0     0.50    21.00    99.00    99.00
 9  4 27 16    15.0 1   298.0     1.50    21.50    99.00    99.00
 9  4 27 17    15.0 1   268.0     4.10    21.10    99.00    99.00
 9  4 27 18    15.0 1   264.0     5.10    18.80    99.00    99.00
 9  4 27 19    15.0 1   256.0     6.20    15.50    99.00    99.00
 9  4 27 20    15.0 1   269.0     6.70    13.80    99.00    99.00
 9  4 27 21    15.0 1   276.0     5.70    12.60    99.00    99.00
 9  4 27 22    15.0 1   277.0     4.10    11.60    99.00    99.00
 9  4 27 23    15.0 1   288.0     3.60    11.40    99.00    99.00
 9  4 27 24    15.0 1   289.0     3.10    11.30    99.00    99.00
 9  4 28  1    15.0 1   282.0     2.10    11.10    99.00    99.00
 9  4 28  2    15.0 1   271.0     2.10    11.00    99.00    99.00
 9  4 28  3    15.0 1   270.0     2.10    10.60    99.00    99.00
 9  4 28  4    15.0 1   294.0     2.10    10.30    99.00    99.00
 9  4 28  5    15.0 1   305.0     2.10    10.10    99.00    99.00
 9  4 28  6    15.0 1   302.0     2.10    10.10    99.00    99.00
 9  4 28  7    15.0 1   307.0     2.60     9.90    99.00    99.00
 9  4 28  8    15.0 1   332.0     3.60     9.60    99.00    99.00
 9  4 28  9    15.0 1   338.0     3.10     9.90    99.00    99.00
 9  4 28 10    15.0 1     0.0     0.00    11.60    99.00    99.00
 9  4 28 11    15.0 1   358.0     0.50    13.10    99.00    99.00
 9  4 28 12    15.0 1    13.0     0.50    14.30    99.00    99.00
 9  4 28 13    15.0 1     7.0     1.00    15.60    99.00    99.00
 9  4 28 14    15.0 1     7.0     1.50    16.50    99.00    99.00
 9  4 28 15    15.0 1     0.0     0.00    17.10    99.00    99.00
 9  4 28 16    15.0 1     4.0     3.10    17.60    99.00    99.00
 9  4 28 17    15.0 1   349.0     4.10    17.50    99.00    99.00
 9  4 28 18    15.0 1   346.0     3.10    16.90    99.00    99.00
 9  4 28 19    15.0 1   355.0     4.10    15.10    99.00    99.00
 9  4 28 20    15.0 1   357.0     3.60    13.60    99.00    99.00
 9  4 28 21    15.0 1     0.0     0.00    12.90    99.00    99.00
 9  4 28 22    15.0 1     5.0     1.00    12.10    99.00    99.00
 9  4 28 23    15.0 1     1.0     0.50    11.50    99.00    99.00
 9  4 28 24    15.0 1   323.0     1.50    10.60    99.00    99.00
 9  4 29  1    15.0 1   320.0     2.10     9.60    99.00    99.00
 9  4 29  2    15.0 1   337.0     1.50     8.90    99.00    99.00
 9  4 29  3    15.0 1   360.0     1.00     8.40    99.00    99.00
 9  4 29  4    15.0 1    20.0     0.50     7.80    99.00    99.00
 9  4 29  5    15.0 1    29.0     0.50     7.30    99.00    99.00
 9  4 29  6    15.0 1    61.0     0.50     6.90    99.00    99.00
 9  4 29  7    15.0 1    19.0     0.50     8.10    99.00    99.00
 9  4 29  8    15.0 1     0.0     0.00     9.40    99.00    99.00
 9  4 29  9    15.0 1     0.0     0.00    10.90    99.00    99.00
 9  4 29 10    15.0 1     0.0     0.00    12.80    99.00    99.00
 9  4 29 11    15.0 1     0.0     0.00    14.40    99.00    99.00
 9  4 29 12    15.0 1     0.0     0.00    15.90    99.00    99.00
 9  4 29 13    15.0 1   320.0     0.50    17.30    99.00    99.00
 9  4 29 14    15.0 1   339.0     1.50    18.50    99.00    99.00
 9  4 29 15    15.0 1   350.0     2.60    19.30    99.00    99.00
 9  4 29 16    15.0 1     3.0     3.60    19.50    99.00    99.00
 9  4 29 17    15.0 1     0.0     0.00    19.30    99.00    99.00
 9  4 29 18    15.0 1     0.0     0.00    18.60    99.00    99.00
 9  4 29 19    15.0 1   354.0     3.60    17.60    99.00    99.00
 9  4 29 20    15.0 1   341.0     4.10    16.00    99.00    99.00
 9  4 29 21    15.0 1   347.0     3.60    14.50    99.00    99.00
 9  4 29 22    15.0 1   347.0     2.60    13.60    99.00    99.00
 9  4 29 23    15.0 1   337.0     1.50    12.80    99.00    99.00
 9  4 29 24    15.0 1   320.0     2.10    11.90    99.00    99.00
 9  4 30  1    15.0 1   326.0     2.10    11.10    99.00    99.00
 9  4 30  2    15.0 1   359.0     1.50    10.60    99.00    99.00
 9  4 30  3    15.0 1    27.0     0.50    10.30    99.00    99.00
 9  4 30  4    15.0 1     0.0     0.00    10.00    99.00    99.00
 9  4 30  5    15.0 1     0.0     0.00     9.60    99.00    99.00
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 9  4 30  6    15.0 1     0.0     0.00     9.10    99.00    99.00
 9  4 30  7    15.0 1     0.0     0.00     9.60    99.00    99.00
 9  4 30  8    15.0 1     0.0     0.00    11.10    99.00    99.00
 9  4 30  9    15.0 1     0.0     0.00    12.60    99.00    99.00
 9  4 30 10    15.0 1     0.0     0.00    14.60    99.00    99.00
 9  4 30 11    15.0 1     0.0     0.00    16.80    99.00    99.00
 9  4 30 12    15.0 1     0.0     0.00    18.60    99.00    99.00
 9  4 30 13    15.0 1     0.0     0.00    20.00    99.00    99.00
 9  4 30 14    15.0 1   327.0     0.50    21.00    99.00    99.00
 9  4 30 15    15.0 1   353.0     1.00    21.50    99.00    99.00
 9  4 30 16    15.0 1     8.0     2.60    22.30    99.00    99.00
 9  4 30 17    15.0 1    28.0     2.60    21.60    99.00    99.00
 9  4 30 18    15.0 1    42.0     2.60    21.10    99.00    99.00
 9  4 30 19    15.0 1    62.0     2.10    20.40    99.00    99.00
 9  4 30 20    15.0 1   102.0     0.50    19.60    99.00    99.00
 9  4 30 21    15.0 1     0.0     0.00    18.60    99.00    99.00
 9  4 30 22    15.0 1     0.0     0.00    17.90    99.00    99.00
 9  4 30 23    15.0 1   333.0     0.50    17.30    99.00    99.00
 9  4 30 24    15.0 1   339.0     1.00    16.60    99.00    99.00
 9  5  1  1    15.0 1   340.0     2.10    16.10    99.00    99.00
 9  5  1  2    15.0 1   342.0     2.10    15.30    99.00    99.00
 9  5  1  3    15.0 1   334.0     1.50    14.60    99.00    99.00
 9  5  1  4    15.0 1   315.0     1.50    14.10    99.00    99.00
 9  5  1  5    15.0 1   311.0     1.00    13.80    99.00    99.00
 9  5  1  6    15.0 1   305.0     0.50    13.60    99.00    99.00
 9  5  1  7    15.0 1   286.0     0.50    13.60    99.00    99.00
 9  5  1  8    15.0 1     0.0     0.00    15.00    99.00    99.00
 9  5  1  9    15.0 1     0.0     0.00    16.60    99.00    99.00
 9  5  1 10    15.0 1     0.0     0.00    18.60    99.00    99.00
 9  5  1 11    15.0 1     0.0     0.00    20.10    99.00    99.00
 9  5  1 12    15.0 1     0.0     0.00    21.60    99.00    99.00
 9  5  1 13    15.0 1    23.0     0.50    22.80    99.00    99.00
 9  5  1 14    15.0 1   352.0     0.50    23.60    99.00    99.00
 9  5  1 15    15.0 1    12.0     1.00    24.00    99.00    99.00
 9  5  1 16    15.0 1   310.0     2.10    23.90    99.00    99.00
 9  5  1 17    15.0 1   296.0     5.10    20.80    99.00    99.00
 9  5  1 18    15.0 1   301.0     4.10    17.80    99.00    99.00
 9  5  1 19    15.0 1   311.0     3.10    16.80    99.00    99.00
 9  5  1 20    15.0 1   340.0     1.50    16.40    99.00    99.00
 9  5  1 21    15.0 1    38.0     1.50    16.40    99.00    99.00
 9  5  1 22    15.0 1    50.0     1.50    16.40    99.00    99.00
 9  5  1 23    15.0 1    27.0     1.50    16.30    99.00    99.00
 9  5  1 24    15.0 1    40.0     1.50    16.10    99.00    99.00
 9  5  2  1    15.0 1    52.0     1.50    15.90    99.00    99.00
 9  5  2  2    15.0 1    55.0     2.10    15.60    99.00    99.00
 9  5  2  3    15.0 1    38.0     2.10    15.10    99.00    99.00
 9  5  2  4    15.0 1    28.0     2.10    14.90    99.00    99.00
 9  5  2  5    15.0 1    14.0     1.50    14.80    99.00    99.00
 9  5  2  6    15.0 1   326.0     1.50    14.60    99.00    99.00
 9  5  2  7    15.0 1   303.0     1.50    14.60    99.00    99.00
 9  5  2  8    15.0 1   296.0     2.10    15.30    99.00    99.00
 9  5  2  9    15.0 1   323.0     1.00    17.00    99.00    99.00
 9  5  2 10    15.0 1     0.0     0.00    18.50    99.00    99.00
 9  5  2 11    15.0 1    72.0     0.50    19.40    99.00    99.00
 9  5  2 12    15.0 1     0.0     0.00    20.50    99.00    99.00
 9  5  2 13    15.0 1     0.0     0.00    21.30    99.00    99.00
 9  5  2 14    15.0 1    32.0     0.50    22.00    99.00    99.00
 9  5  2 15    15.0 1    16.0     1.00    22.30    99.00    99.00
 9  5  2 16    15.0 1    10.0     2.10    22.40    99.00    99.00
 9  5  2 17    15.0 1    15.0     2.10    22.10    99.00    99.00
 9  5  2 18    15.0 1     1.0     2.10    21.90    99.00    99.00
 9  5  2 19    15.0 1   344.0     1.50    21.30    99.00    99.00
 9  5  2 20    15.0 1   308.0     1.50    20.60    99.00    99.00
 9  5  2 21    15.0 1   286.0     2.10    20.00    99.00    99.00
 9  5  2 22    15.0 1   286.0     3.10    18.90    99.00    99.00
 9  5  2 23    15.0 1   284.0     4.10    17.60    99.00    99.00
 9  5  2 24    15.0 1   288.0     4.10    16.90    99.00    99.00
 9  5  3  1    15.0 1   291.0     4.10    16.40    99.00    99.00
 9  5  3  2    15.0 1   282.0     3.60    16.10    99.00    99.00
 9  5  3  3    15.0 1   281.0     2.60    15.90    99.00    99.00
 9  5  3  4    15.0 1   281.0     1.50    15.60    99.00    99.00
 9  5  3  5    15.0 1   258.0     0.50    15.60    99.00    99.00
 9  5  3  6    15.0 1   131.0     1.00    15.40    99.00    99.00
 9  5  3  7    15.0 1   257.0     1.00    16.40    99.00    99.00
 9  5  3  8    15.0 1     0.0     0.00    17.90    99.00    99.00
 9  5  3  9    15.0 1     0.0     0.00    19.30    99.00    99.00
 9  5  3 10    15.0 1     0.0     0.00    21.00    99.00    99.00
```

```
 9  5  3 11    15.0 1     0.0     0.00    22.50    99.00    99.00
 9  5  3 12    15.0 1     0.0     0.00    24.10    99.00    99.00
 9  5  3 13    15.0 1     0.0     0.00    25.40    99.00    99.00
 9  5  3 14    15.0 1   297.0     1.50    26.30    99.00    99.00
 9  5  3 15    15.0 1   314.0     3.10    26.50    99.00    99.00
 9  5  3 16    15.0 1   316.0     4.10    26.30    99.00    99.00
 9  5  3 17    15.0 1   338.0     3.10    25.90    99.00    99.00
 9  5  3 18    15.0 1   341.0     4.10    24.60    99.00    99.00
 9  5  3 19    15.0 1   336.0     4.60    22.30    99.00    99.00
 9  5  3 20    15.0 1   336.0     4.60    20.10    99.00    99.00
 9  5  3 21    15.0 1   338.0     4.10    19.00    99.00    99.00
 9  5  3 22    15.0 1   331.0     3.10    18.10    99.00    99.00
 9  5  3 23    15.0 1   306.0     3.10    17.60    99.00    99.00
 9  5  3 24    15.0 1   276.0     3.10    16.90    99.00    99.00
 9  5  4  1    15.0 1   267.0     3.60    16.00    99.00    99.00
 9  5  4  2    15.0 1   280.0     3.60    15.00    99.00    99.00
 9  5  4  3    15.0 1   277.0     3.60    14.40    99.00    99.00
 9  5  4  4    15.0 1   294.0     2.60    13.90    99.00    99.00
 9  5  4  5    15.0 1   302.0     2.60    13.50    99.00    99.00
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 9  5  4  7    15.0 1   306.0     2.10    14.40    99.00    99.00
 9  5  4  8    15.0 1   329.0     0.50    15.10    99.00    99.00
 9  5  4  9    15.0 1     0.0     0.00    16.10    99.00    99.00
 9  5  4 10    15.0 1   134.0     0.50    17.40    99.00    99.00
 9  5  4 11    15.0 1   154.0     0.50    19.10    99.00    99.00
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 9  5  4 15    15.0 1    41.0     1.00    23.50    99.00    99.00
 9  5  4 16    15.0 1    42.0     2.10    23.60    99.00    99.00
 9  5  4 17    15.0 1    51.0     2.10    23.30    99.00    99.00
 9  5  4 18    15.0 1    68.0     1.50    22.90    99.00    99.00
 9  5  4 19    15.0 1   118.0     0.50    22.10    99.00    99.00
 9  5  4 20    15.0 1   210.0     0.50    21.40    99.00    99.00
 9  5  4 21    15.0 1   247.0     2.10    20.50    99.00    99.00
 9  5  4 22    15.0 1   271.0     3.60    18.90    99.00    99.00
 9  5  4 23    15.0 1   278.0     4.10    17.60    99.00    99.00
 9  5  4 24    15.0 1   288.0     4.10    16.50    99.00    99.00
 9  5  5  1    15.0 1   297.0     3.60    15.80    99.00    99.00
 9  5  5  2    15.0 1   302.0     3.10    15.30    99.00    99.00
 9  5  5  3    15.0 1   305.0     3.10    14.60    99.00    99.00
 9  5  5  4    15.0 1   301.0     2.60    14.10    99.00    99.00
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 9  5  5  6    15.0 1   294.0     1.50    13.30    99.00    99.00
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 9  5  5  9    15.0 1     0.0     0.00    18.00    99.00    99.00
 9  5  5 10    15.0 1     0.0     0.00    19.90    99.00    99.00
 9  5  5 11    15.0 1     0.0     0.00    21.50    99.00    99.00
 9  5  5 12    15.0 1     0.0     0.00    22.90    99.00    99.00
 9  5  5 13    15.0 1     0.0     0.00    24.10    99.00    99.00
 9  5  5 14    15.0 1   351.0     0.50    25.10    99.00    99.00
 9  5  5 15    15.0 1     5.0     1.50    25.60    99.00    99.00
 9  5  5 16    15.0 1     0.0     0.00    26.10    99.00    99.00
 9  5  5 17    15.0 1     0.0     0.00    26.00    99.00    99.00
 9  5  5 18    15.0 1     0.0     0.00    25.50    99.00    99.00
 9  5  5 19    15.0 1   353.0     4.10    23.50    99.00    99.00
 9  5  5 20    15.0 1   337.0     4.60    21.30    99.00    99.00
 9  5  5 21    15.0 1   339.0     5.10    19.50    99.00    99.00
 9  5  5 22    15.0 1   342.0     4.60    18.40    99.00    99.00
 9  5  5 23    15.0 1   334.0     4.10    17.60    99.00    99.00
 9  5  5 24    15.0 1   318.0     4.10    17.00    99.00    99.00
 9  5  6  1    15.0 1   325.0     3.60    16.60    99.00    99.00
 9  5  6  2    15.0 1   322.0     2.60    16.30    99.00    99.00
 9  5  6  3    15.0 1   317.0     2.10    16.10    99.00    99.00
 9  5  6  4    15.0 1   323.0     2.10    16.10    99.00    99.00
 9  5  6  5    15.0 1   310.0     2.10    16.10    99.00    99.00
 9  5  6  6    15.0 1   298.0     2.10    16.10    99.00    99.00
 9  5  6  7    15.0 1   302.0     1.50    16.10    99.00    99.00
 9  5  6  8    15.0 1   345.0     1.50    16.40    99.00    99.00
 9  5  6  9    15.0 1     0.0     0.00    18.40    99.00    99.00
 9  5  6 10    15.0 1     0.0     0.00    20.40    99.00    99.00
 9  5  6 11    15.0 1     0.0     0.00    22.30    99.00    99.00
 9  5  6 12    15.0 1     0.0     0.00    23.90    99.00    99.00
 9  5  6 13    15.0 1     0.0     0.00    25.10    99.00    99.00
 9  5  6 14    15.0 1   310.0     0.50    26.40    99.00    99.00
 9  5  6 15    15.0 1   338.0     2.10    27.00    99.00    99.00
```

```
 9  5  6 16    15.0 1   353.0     3.60    27.10    99.00    99.00
 9  5  6 17    15.0 1     0.0     0.00    26.60    99.00    99.00
 9  5  6 18    15.0 1     1.0     3.10    26.00    99.00    99.00
 9  5  6 19    15.0 1   344.0     3.60    24.90    99.00    99.00
 9  5  6 20    15.0 1   333.0     3.60    23.60    99.00    99.00
 9  5  6 21    15.0 1   328.0     3.60    22.10    99.00    99.00
 9  5  6 22    15.0 1   341.0     3.60    21.00    99.00    99.00
 9  5  6 23    15.0 1   341.0     3.10    20.10    99.00    99.00
 9  5  6 24    15.0 1   328.0     3.10    19.10    99.00    99.00
 9  5  7  1    15.0 1   334.0     3.10    18.10    99.00    99.00
 9  5  7  2    15.0 1   318.0     3.10    17.40    99.00    99.00
 9  5  7  3    15.0 1   322.0     3.10    16.80    99.00    99.00
 9  5  7  4    15.0 1   311.0     3.10    16.30    99.00    99.00
 9  5  7  5    15.0 1   313.0     3.10    15.80    99.00    99.00
 9  5  7  6    15.0 1   307.0     2.60    15.60    99.00    99.00
 9  5  7  7    15.0 1   345.0     4.10    17.10    99.00    99.00
 9  5  7  8    15.0 1   342.0     3.10    18.10    99.00    99.00
 9  5  7  9    15.0 1   336.0     2.10    19.40    99.00    99.00
 9  5  7 10    15.0 1   344.0     1.50    20.80    99.00    99.00
 9  5  7 11    15.0 1   328.0     1.50    22.40    99.00    99.00
 9  5  7 12    15.0 1   326.0     2.10    23.60    99.00    99.00
 9  5  7 13    15.0 1   327.0     2.60    24.60    99.00    99.00
 9  5  7 14    15.0 1   334.0     3.60    25.60    99.00    99.00
 9  5  7 15    15.0 1   339.0     4.60    25.90    99.00    99.00
 9  5  7 16    15.0 1   336.0     5.10    25.60    99.00    99.00
 9  5  7 17    15.0 1   338.0     4.10    25.00    99.00    99.00
 9  5  7 18    15.0 1   329.0     3.60    24.10    99.00    99.00
 9  5  7 19    15.0 1   316.0     3.60    22.40    99.00    99.00
 9  5  7 20    15.0 1   309.0     3.10    21.00    99.00    99.00
 9  5  7 21    15.0 1   301.0     2.60    20.10    99.00    99.00
 9  5  7 22    15.0 1   288.0     2.10    19.10    99.00    99.00
 9  5  7 23    15.0 1   286.0     1.00    18.30    99.00    99.00
 9  5  7 24    15.0 1   303.0     0.50    17.60    99.00    99.00
 9  5  8  1    15.0 1     0.0     0.00    17.10    99.00    99.00
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 9  5  8  3    15.0 1   287.0     0.50    15.80    99.00    99.00
 9  5  8  4    15.0 1   289.0     1.00    15.10    99.00    99.00
 9  5  8  5    15.0 1   287.0     1.50    14.50    99.00    99.00
 9  5  8  6    15.0 1   276.0     1.00    14.10    99.00    99.00
 9  5  8  7    15.0 1   329.0     1.50    15.40    99.00    99.00
 9  5  8  8    15.0 1   316.0     0.50    17.10    99.00    99.00
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 9  5  8 12    15.0 1   296.0     0.50    23.60    99.00    99.00
 9  5  8 13    15.0 1   324.0     1.00    25.10    99.00    99.00
 9  5  8 14    15.0 1   329.0     1.50    26.10    99.00    99.00
 9  5  8 15    15.0 1   336.0     2.60    26.80    99.00    99.00
 9  5  8 16    15.0 1   346.0     3.10    27.00    99.00    99.00
 9  5  8 17    15.0 1   348.0     2.60    26.60    99.00    99.00
 9  5  8 18    15.0 1     2.0     2.10    26.10    99.00    99.00
 9  5  8 19    15.0 1   356.0     1.50    25.10    99.00    99.00
 9  5  8 20    15.0 1   339.0     1.00    23.80    99.00    99.00
 9  5  8 21    15.0 1   325.0     1.00    22.40    99.00    99.00
 9  5  8 22    15.0 1   292.0     1.00    21.00    99.00    99.00
 9  5  8 23    15.0 1   301.0     1.50    19.90    99.00    99.00
 9  5  8 24    15.0 1   322.0     2.10    19.00    99.00    99.00
 9  5  9  1    15.0 1   342.0     1.50    18.00    99.00    99.00
 9  5  9  2    15.0 1   345.0     1.00    17.10    99.00    99.00
 9  5  9  3    15.0 1   313.0     1.00    16.30    99.00    99.00
 9  5  9  4    15.0 1   295.0     1.50    15.60    99.00    99.00
 9  5  9  5    15.0 1   289.0     1.50    15.10    99.00    99.00
 9  5  9  6    15.0 1   283.0     1.50    14.90    99.00    99.00
 9  5  9  7    15.0 1   326.0     2.10    16.30    99.00    99.00
 9  5  9  8    15.0 1   326.0     0.50    18.00    99.00    99.00
 9  5  9  9    15.0 1     0.0     0.00    20.10    99.00    99.00
 9  5  9 10    15.0 1     0.0     0.00    21.90    99.00    99.00
 9  5  9 11    15.0 1     0.0     0.00    23.60    99.00    99.00
 9  5  9 12    15.0 1     0.0     0.00    25.30    99.00    99.00
 9  5  9 13    15.0 1   313.0     0.50    26.60    99.00    99.00
 9  5  9 14    15.0 1   326.0     1.50    27.80    99.00    99.00
 9  5  9 15    15.0 1   352.0     2.10    28.30    99.00    99.00
 9  5  9 16    15.0 1   360.0     3.10    28.40    99.00    99.00
 9  5  9 17    15.0 1     0.0     0.00    27.50    99.00    99.00
 9  5  9 18    15.0 1     0.0     0.00    26.60    99.00    99.00
 9  5  9 19    15.0 1   348.0     3.60    25.60    99.00    99.00
 9  5  9 20    15.0 1   337.0     3.10    24.10    99.00    99.00
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9	5	9	21	15.0	1	323.0	3.10	22.60	99.00	99.00
9	5	9	22	15.0	1	310.0	2.60	21.30	99.00	99.00
9	5	9	23	15.0	1	299.0	2.60	20.10	99.00	99.00
9	5	9	24	15.0	1	303.0	3.10	19.30	99.00	99.00
9	5	10	1	15.0	1	321.0	3.60	18.50	99.00	99.00
9	5	10	2	15.0	1	345.0	3.60	17.30	99.00	99.00
9	5	10	3	15.0	1	336.0	2.60	16.40	99.00	99.00
9	5	10	4	15.0	1	348.0	1.00	15.60	99.00	99.00
9	5	10	5	15.0	1	0.0	0.00	15.10	99.00	99.00
9	5	10	6	15.0	1	296.0	0.50	14.60	99.00	99.00
9	5	10	7	15.0	1	320.0	2.10	16.10	99.00	99.00
9	5	10	8	15.0	1	312.0	0.50	17.90	99.00	99.00
9	5	10	9	15.0	1	0.0	0.00	20.00	99.00	99.00
9	5	10	10	15.0	1	0.0	0.00	21.80	99.00	99.00
9	5	10	11	15.0	1	285.0	0.50	23.50	99.00	99.00
9	5	10	12	15.0	1	0.0	0.00	25.00	99.00	99.00
9	5	10	13	15.0	1	0.0	0.00	26.50	99.00	99.00
9	5	10	14	15.0	1	338.0	1.00	27.50	99.00	99.00
9	5	10	15	15.0	1	2.0	2.10	28.10	99.00	99.00
9	5	10	16	15.0	1	0.0	0.00	28.60	99.00	99.00
9	5	10	17	15.0	1	7.0	3.10	28.30	99.00	99.00
9	5	10	18	15.0	1	15.0	2.60	27.80	99.00	99.00
9	5	10	19	15.0	1	346.0	2.60	26.80	99.00	99.00
9	5	10	20	15.0	1	332.0	3.10	25.50	99.00	99.00
9	5	10	21	15.0	1	313.0	4.10	24.10	99.00	99.00
9	5	10	22	15.0	1	308.0	4.10	22.40	99.00	99.00
9	5	10	23	15.0	1	323.0	3.60	21.00	99.00	99.00
9	5	10	24	15.0	1	345.0	3.60	19.60	99.00	99.00
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9	5	11	2	15.0	1	347.0	2.10	17.60	99.00	99.00
9	5	11	3	15.0	1	346.0	1.50	17.00	99.00	99.00
9	5	11	4	15.0	1	345.0	1.50	16.30	99.00	99.00
9	5	11	5	15.0	1	342.0	1.00	15.60	99.00	99.00
9	5	11	6	15.0	1	328.0	1.00	15.10	99.00	99.00
9	5	11	7	15.0	1	347.0	2.10	16.10	99.00	99.00
9	5	11	8	15.0	1	349.0	1.00	17.80	99.00	99.00
9	5	11	9	15.0	1	0.0	0.00	19.60	99.00	99.00
9	5	11	10	15.0	1	286.0	0.50	21.40	99.00	99.00
9	5	11	11	15.0	1	305.0	1.00	23.10	99.00	99.00
9	5	11	12	15.0	1	323.0	1.50	24.60	99.00	99.00
9	5	11	13	15.0	1	323.0	2.10	25.60	99.00	99.00
9	5	11	14	15.0	1	337.0	2.60	26.50	99.00	99.00
9	5	11	15	15.0	1	345.0	3.10	26.90	99.00	99.00
9	5	11	16	15.0	1	352.0	4.10	26.90	99.00	99.00
9	5	11	17	15.0	1	356.0	4.10	26.30	99.00	99.00
9	5	11	18	15.0	1	352.0	3.60	25.10	99.00	99.00
9	5	11	19	15.0	1	355.0	4.60	23.00	99.00	99.00
9	5	11	20	15.0	1	344.0	4.10	21.10	99.00	99.00
9	5	11	21	15.0	1	336.0	3.60	20.10	99.00	99.00
9	5	11	22	15.0	1	344.0	3.10	19.40	99.00	99.00
9	5	11	23	15.0	1	332.0	3.60	18.50	99.00	99.00
9	5	11	24	15.0	1	328.0	3.60	17.30	99.00	99.00
9	5	12	1	15.0	1	326.0	3.60	16.30	99.00	99.00
9	5	12	2	15.0	1	329.0	3.10	15.50	99.00	99.00
9	5	12	3	15.0	1	332.0	2.60	14.80	99.00	99.00
9	5	12	4	15.0	1	322.0	2.60	14.10	99.00	99.00
9	5	12	5	15.0	1	309.0	2.10	13.80	99.00	99.00
9	5	12	6	15.0	1	296.0	1.50	13.50	99.00	99.00
9	5	12	7	15.0	1	339.0	2.10	14.50	99.00	99.00
9	5	12	8	15.0	1	328.0	0.50	15.80	99.00	99.00
9	5	12	9	15.0	1	0.0	0.00	17.40	99.00	99.00
9	5	12	10	15.0	1	295.0	0.50	19.10	99.00	99.00
9	5	12	11	15.0	1	312.0	0.50	20.90	99.00	99.00
9	5	12	12	15.0	1	322.0	1.50	22.40	99.00	99.00
9	5	12	13	15.0	1	325.0	2.10	23.60	99.00	99.00
9	5	12	14	15.0	1	326.0	3.10	24.60	99.00	99.00
9	5	12	15	15.0	1	344.0	4.10	25.10	99.00	99.00
9	5	12	16	15.0	1	355.0	5.10	25.10	99.00	99.00
9	5	12	17	15.0	1	353.0	4.60	24.30	99.00	99.00
9	5	12	18	15.0	1	327.0	4.10	23.00	99.00	99.00
9	5	12	19	15.0	1	325.0	4.10	20.80	99.00	99.00
9	5	12	20	15.0	1	322.0	4.10	19.10	99.00	99.00
9	5	12	21	15.0	1	309.0	3.60	18.10	99.00	99.00
9	5	12	22	15.0	1	302.0	2.60	17.50	99.00	99.00
9	5	12	23	15.0	1	294.0	1.50	16.90	99.00	99.00
9	5	12	24	15.0	1	0.0	0.00	16.30	99.00	99.00
9	5	13	1	15.0	1	0.0	0.00	16.00	99.00	99.00

```
 9  5 13  2    15.0 1     0.0     0.00    15.60    99.00    99.00
 9  5 13  3    15.0 1     0.0     0.00    14.90    99.00    99.00
 9  5 13  4    15.0 1     0.0     0.00    14.10    99.00    99.00
 9  5 13  5    15.0 1   248.0     0.50    13.60    99.00    99.00
 9  5 13  6    15.0 1   247.0     1.00    13.30    99.00    99.00
 9  5 13  7    15.0 1   294.0     1.00    15.30    99.00    99.00
 9  5 13  8    15.0 1   299.0     1.00    17.10    99.00    99.00
 9  5 13  9    15.0 1   294.0     0.50    18.60    99.00    99.00
 9  5 13 10    15.0 1   288.0     0.50    20.10    99.00    99.00
 9  5 13 11    15.0 1   308.0     1.00    22.00    99.00    99.00
 9  5 13 12    15.0 1   316.0     2.10    23.50    99.00    99.00
 9  5 13 13    15.0 1   334.0     2.60    24.60    99.00    99.00
 9  5 13 14    15.0 1   339.0     3.60    25.40    99.00    99.00
 9  5 13 15    15.0 1   355.0     4.60    25.80    99.00    99.00
 9  5 13 16    15.0 1   352.0     5.10    25.90    99.00    99.00
 9  5 13 17    15.0 1   342.0     3.60    25.30    99.00    99.00
 9  5 13 18    15.0 1   322.0     3.60    24.10    99.00    99.00
 9  5 13 19    15.0 1   318.0     4.60    22.10    99.00    99.00
 9  5 13 20    15.0 1   321.0     4.10    20.30    99.00    99.00
 9  5 13 21    15.0 1   309.0     3.60    19.40    99.00    99.00
 9  5 13 22    15.0 1   292.0     3.10    18.90    99.00    99.00
 9  5 13 23    15.0 1   267.0     1.50    18.40    99.00    99.00
 9  5 13 24    15.0 1   247.0     1.00    18.00    99.00    99.00
 9  5 14  1    15.0 1   228.0     0.50    17.60    99.00    99.00
 9  5 14  2    15.0 1   255.0     1.00    17.40    99.00    99.00
 9  5 14  3    15.0 1   274.0     1.00    17.10    99.00    99.00
 9  5 14  4    15.0 1   258.0     1.50    16.60    99.00    99.00
 9  5 14  5    15.0 1   261.0     1.50    16.40    99.00    99.00
 9  5 14  6    15.0 1   250.0     1.50    16.00    99.00    99.00
 9  5 14  7    15.0 1   302.0     1.50    16.90    99.00    99.00
 9  5 14  8    15.0 1   344.0     1.50    18.00    99.00    99.00
 9  5 14  9    15.0 1   334.0     1.00    19.40    99.00    99.00
 9  5 14 10    15.0 1   323.0     1.00    21.00    99.00    99.00
 9  5 14 11    15.0 1   318.0     1.50    22.60    99.00    99.00
 9  5 14 12    15.0 1   331.0     1.50    23.80    99.00    99.00
 9  5 14 13    15.0 1   332.0     2.10    24.80    99.00    99.00
 9  5 14 14    15.0 1   340.0     2.60    25.50    99.00    99.00
 9  5 14 15    15.0 1   351.0     3.10    25.80    99.00    99.00
 9  5 14 16    15.0 1     1.0     3.60    25.80    99.00    99.00
 9  5 14 17    15.0 1   354.0     3.10    25.80    99.00    99.00
 9  5 14 18    15.0 1   343.0     3.60    25.40    99.00    99.00
 9  5 14 19    15.0 1   328.0     4.60    23.10    99.00    99.00
 9  5 14 20    15.0 1   335.0     4.10    21.60    99.00    99.00
 9  5 14 21    15.0 1   330.0     3.60    20.60    99.00    99.00
 9  5 14 22    15.0 1   335.0     2.60    20.10    99.00    99.00
 9  5 14 23    15.0 1   323.0     2.10    19.80    99.00    99.00
 9  5 14 24    15.0 1   324.0     2.10    19.10    99.00    99.00
 9  5 15  1    15.0 1   330.0     2.10    18.50    99.00    99.00
 9  5 15  2    15.0 1   331.0     1.50    17.80    99.00    99.00
 9  5 15  3    15.0 1   335.0     1.00    17.30    99.00    99.00
 9  5 15  4    15.0 1   321.0     1.00    16.80    99.00    99.00
 9  5 15  5    15.0 1   300.0     1.00    16.40    99.00    99.00
 9  5 15  6    15.0 1   282.0     0.50    16.10    99.00    99.00
 9  5 15  7    15.0 1   341.0     1.00    17.10    99.00    99.00
 9  5 15  8    15.0 1     0.0     0.00    18.00    99.00    99.00
 9  5 15  9    15.0 1     0.0     0.00    19.60    99.00    99.00
 9  5 15 10    15.0 1     0.0     0.00    21.60    99.00    99.00
 9  5 15 11    15.0 1     0.0     0.00    23.60    99.00    99.00
 9  5 15 12    15.0 1     0.0     0.00    25.50    99.00    99.00
 9  5 15 13    15.0 1     0.0     0.00    27.30    99.00    99.00
 9  5 15 14    15.0 1   352.0     1.00    28.60    99.00    99.00
 9  5 15 15    15.0 1     2.0     2.10    29.10    99.00    99.00
 9  5 15 16    15.0 1     0.0     0.00    30.60    99.00    99.00
 9  5 15 17    15.0 1     8.0     3.10    30.10    99.00    99.00
 9  5 15 18    15.0 1     0.0     0.00    29.50    99.00    99.00
 9  5 15 19    15.0 1   355.0     3.10    28.50    99.00    99.00
 9  5 15 20    15.0 1   317.0     2.60    27.40    99.00    99.00
 9  5 15 21    15.0 1   323.0     2.10    26.30    99.00    99.00
 9  5 15 22    15.0 1   319.0     2.10    25.10    99.00    99.00
 9  5 15 23    15.0 1   306.0     1.50    24.10    99.00    99.00
 9  5 15 24    15.0 1   302.0     1.00    23.30    99.00    99.00
 9  5 16  1    15.0 1   299.0     0.50    22.60    99.00    99.00
 9  5 16  2    15.0 1   274.0     1.00    21.90    99.00    99.00
 9  5 16  3    15.0 1   266.0     1.50    21.30    99.00    99.00
 9  5 16  4    15.0 1   277.0     2.60    20.60    99.00    99.00
 9  5 16  5    15.0 1   291.0     3.60    20.00    99.00    99.00
 9  5 16  6    15.0 1   288.0     2.60    19.50    99.00    99.00
```

9	5	16	7	15.0	1	306.0	2.10	21.30	99.00	99.00
9	5	16	8	15.0	1	287.0	1.50	23.10	99.00	99.00
9	5	16	9	15.0	1	260.0	0.50	25.80	99.00	99.00
9	5	16	10	15.0	1	0.0	0.00	28.60	99.00	99.00
9	5	16	11	15.0	1	101.0	0.50	30.80	99.00	99.00
9	5	16	12	15.0	1	104.0	0.50	33.00	99.00	99.00
9	5	16	13	15.0	1	219.0	0.50	34.80	99.00	99.00
9	5	16	14	15.0	1	246.0	0.50	36.10	99.00	99.00
9	5	16	15	15.0	1	287.0	0.50	36.90	99.00	99.00
9	5	16	16	15.0	1	358.0	2.10	36.50	99.00	99.00
9	5	16	17	15.0	1	12.0	4.60	34.30	99.00	99.00
9	5	16	18	15.0	1	27.0	4.60	31.80	99.00	99.00
9	5	16	19	15.0	1	27.0	4.60	30.50	99.00	99.00
9	5	16	20	15.0	1	39.0	4.10	29.90	99.00	99.00
9	5	16	21	15.0	1	286.0	2.60	28.50	99.00	99.00
9	5	16	22	15.0	1	275.0	4.60	26.60	99.00	99.00
9	5	16	23	15.0	1	305.0	3.60	25.60	99.00	99.00
9	5	16	24	15.0	1	321.0	3.10	24.90	99.00	99.00
9	5	17	1	15.0	1	325.0	2.60	24.10	99.00	99.00
9	5	17	2	15.0	1	299.0	1.00	23.30	99.00	99.00
9	5	17	3	15.0	1	260.0	1.50	22.50	99.00	99.00
9	5	17	4	15.0	1	261.0	2.10	22.00	99.00	99.00
9	5	17	5	15.0	1	266.0	2.60	21.60	99.00	99.00
9	5	17	6	15.0	1	285.0	2.60	21.10	99.00	99.00
9	5	17	7	15.0	1	291.0	1.50	22.60	99.00	99.00
9	5	17	8	15.0	1	289.0	2.10	24.90	99.00	99.00
9	5	17	9	15.0	1	277.0	1.50	27.30	99.00	99.00
9	5	17	10	15.0	1	270.0	0.50	29.60	99.00	99.00
9	5	17	11	15.0	1	0.0	0.00	32.00	99.00	99.00
9	5	17	12	15.0	1	322.0	0.50	33.50	99.00	99.00
9	5	17	13	15.0	1	334.0	0.50	34.80	99.00	99.00
9	5	17	14	15.0	1	19.0	0.50	35.60	99.00	99.00
9	5	17	15	15.0	1	23.0	1.50	36.10	99.00	99.00
9	5	17	16	15.0	1	25.0	3.10	35.50	99.00	99.00
9	5	17	17	15.0	1	18.0	3.10	34.10	99.00	99.00
9	5	17	18	15.0	1	14.0	3.10	33.60	99.00	99.00
9	5	17	19	15.0	1	290.0	5.10	32.60	99.00	99.00
9	5	17	20	15.0	1	277.0	5.10	27.60	99.00	99.00
9	5	17	21	15.0	1	285.0	4.60	25.10	99.00	99.00
9	5	17	22	15.0	1	284.0	4.10	23.60	99.00	99.00
9	5	17	23	15.0	1	297.0	2.10	23.30	99.00	99.00
9	5	17	24	15.0	1	21.0	2.10	22.90	99.00	99.00
9	5	18	1	15.0	1	26.0	2.10	22.40	99.00	99.00
9	5	18	2	15.0	1	13.0	1.00	21.80	99.00	99.00
9	5	18	3	15.0	1	34.0	0.50	21.30	99.00	99.00
9	5	18	4	15.0	1	312.0	0.50	21.00	99.00	99.00
9	5	18	5	15.0	1	237.0	0.50	20.60	99.00	99.00
9	5	18	6	15.0	1	0.0	0.00	20.40	99.00	99.00
9	5	18	7	15.0	1	183.0	0.50	22.00	99.00	99.00
9	5	18	8	15.0	1	178.0	0.50	23.80	99.00	99.00
9	5	18	9	15.0	1	0.0	0.00	25.60	99.00	99.00
9	5	18	10	15.0	1	0.0	0.00	27.50	99.00	99.00
9	5	18	11	15.0	1	0.0	0.00	29.10	99.00	99.00
9	5	18	12	15.0	1	0.0	0.00	30.80	99.00	99.00
9	5	18	13	15.0	1	328.0	0.50	32.10	99.00	99.00
9	5	18	14	15.0	1	62.0	1.00	33.00	99.00	99.00
9	5	18	15	15.0	1	85.0	3.10	32.10	99.00	99.00
9	5	18	16	15.0	1	105.0	2.60	31.60	99.00	99.00
9	5	18	17	15.0	1	344.0	2.60	31.50	99.00	99.00
9	5	18	18	15.0	1	287.0	4.10	29.60	99.00	99.00
9	5	18	19	15.0	1	301.0	3.60	27.40	99.00	99.00
9	5	18	20	15.0	1	313.0	3.10	25.40	99.00	99.00
9	5	18	21	15.0	1	301.0	3.60	24.00	99.00	99.00
9	5	18	22	15.0	1	266.0	4.10	22.60	99.00	99.00
9	5	18	23	15.0	1	266.0	3.60	21.60	99.00	99.00
9	5	18	24	15.0	1	294.0	2.60	20.90	99.00	99.00
9	5	19	1	15.0	1	339.0	1.50	20.60	99.00	99.00
9	5	19	2	15.0	1	19.0	3.60	20.10	99.00	99.00
9	5	19	3	15.0	1	14.0	3.60	18.90	99.00	99.00
9	5	19	4	15.0	1	21.0	2.60	18.40	99.00	99.00
9	5	19	5	15.0	1	19.0	2.10	18.30	99.00	99.00
9	5	19	6	15.0	1	0.0	0.00	18.30	99.00	99.00
9	5	19	7	15.0	1	313.0	1.50	19.60	99.00	99.00
9	5	19	8	15.0	1	0.0	0.00	21.60	99.00	99.00
9	5	19	9	15.0	1	0.0	0.00	23.80	99.00	99.00
9	5	19	10	15.0	1	0.0	0.00	25.60	99.00	99.00
9	5	19	11	15.0	1	0.0	0.00	27.10	99.00	99.00

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 9  5 19 12    15.0 1     0.0     0.00    28.60    99.00    99.00
 9  5 19 13    15.0 1   328.0     0.50    29.80    99.00    99.00
 9  5 19 14    15.0 1     1.0     0.50    30.80    99.00    99.00
 9  5 19 15    15.0 1     8.0     1.00    31.60    99.00    99.00
 9  5 19 16    15.0 1    14.0     1.50    32.00    99.00    99.00
 9  5 19 17    15.0 1   358.0     2.10    31.60    99.00    99.00
 9  5 19 18    15.0 1   302.0     3.60    30.40    99.00    99.00
 9  5 19 19    15.0 1   285.0     5.10    26.40    99.00    99.00
 9  5 19 20    15.0 1   270.0     4.60    23.10    99.00    99.00
 9  5 19 21    15.0 1   272.0     4.60    21.10    99.00    99.00
 9  5 19 22    15.0 1   275.0     4.10    19.60    99.00    99.00
 9  5 19 23    15.0 1   268.0     2.60    18.90    99.00    99.00
 9  5 19 24    15.0 1   315.0     1.00    18.50    99.00    99.00
 9  5 20  1    15.0 1   314.0     1.00    17.90    99.00    99.00
 9  5 20  2    15.0 1   295.0     2.10    17.50    99.00    99.00
 9  5 20  3    15.0 1   289.0     2.60    17.10    99.00    99.00
 9  5 20  4    15.0 1   287.0     2.60    16.90    99.00    99.00
 9  5 20  5    15.0 1   304.0     2.10    16.60    99.00    99.00
 9  5 20  6    15.0 1   322.0     1.50    16.50    99.00    99.00
 9  5 20  7    15.0 1   337.0     1.00    18.10    99.00    99.00
 9  5 20  8    15.0 1     0.0     0.00    19.90    99.00    99.00
 9  5 20  9    15.0 1     0.0     0.00    21.50    99.00    99.00
 9  5 20 10    15.0 1     0.0     0.00    23.60    99.00    99.00
 9  5 20 11    15.0 1     0.0     0.00    25.40    99.00    99.00
 9  5 20 12    15.0 1     0.0     0.00    27.10    99.00    99.00
 9  5 20 13    15.0 1   319.0     0.50    28.60    99.00    99.00
 9  5 20 14    15.0 1   337.0     0.50    29.90    99.00    99.00
 9  5 20 15    15.0 1   360.0     1.00    30.60    99.00    99.00
 9  5 20 16    15.0 1   359.0     1.50    30.90    99.00    99.00
 9  5 20 17    15.0 1    10.0     2.10    30.60    99.00    99.00
 9  5 20 18    15.0 1     5.0     2.10    30.10    99.00    99.00
 9  5 20 19    15.0 1   304.0     4.60    28.10    99.00    99.00
 9  5 20 20    15.0 1   266.0     5.10    22.80    99.00    99.00
 9  5 20 21    15.0 1   269.0     5.10    20.10    99.00    99.00
 9  5 20 22    15.0 1   279.0     4.10    18.90    99.00    99.00
 9  5 20 23    15.0 1   288.0     3.10    17.90    99.00    99.00
 9  5 20 24    15.0 1   336.0     2.60    17.40    99.00    99.00
 9  5 21  1    15.0 1   350.0     2.60    16.60    99.00    99.00
 9  5 21  2    15.0 1   332.0     2.60    16.10    99.00    99.00
 9  5 21  3    15.0 1   316.0     2.60    15.80    99.00    99.00
 9  5 21  4    15.0 1   316.0     2.10    15.60    99.00    99.00
 9  5 21  5    15.0 1   328.0     1.50    15.50    99.00    99.00
 9  5 21  6    15.0 1   345.0     0.50    15.40    99.00    99.00
 9  5 21  7    15.0 1   320.0     1.00    17.60    99.00    99.00
 9  5 21  8    15.0 1     0.0     0.00    19.40    99.00    99.00
 9  5 21  9    15.0 1     0.0     0.00    21.00    99.00    99.00
 9  5 21 10    15.0 1     0.0     0.00    23.00    99.00    99.00
 9  5 21 11    15.0 1     0.0     0.00    24.90    99.00    99.00
 9  5 21 12    15.0 1     0.0     0.00    26.60    99.00    99.00
 9  5 21 13    15.0 1   312.0     0.50    28.10    99.00    99.00
 9  5 21 14    15.0 1   317.0     0.50    29.00    99.00    99.00
 9  5 21 15    15.0 1   345.0     1.50    29.60    99.00    99.00
 9  5 21 16    15.0 1     3.0     2.60    30.00    99.00    99.00
 9  5 21 17    15.0 1     0.0     0.00    29.60    99.00    99.00
 9  5 21 18    15.0 1   286.0     3.60    28.80    99.00    99.00
 9  5 21 19    15.0 1   269.0     5.70    24.10    99.00    99.00
 9  5 21 20    15.0 1   257.0     5.10    21.10    99.00    99.00
 9  5 21 21    15.0 1   271.0     4.60    19.30    99.00    99.00
 9  5 21 22    15.0 1   288.0     3.10    18.30    99.00    99.00
 9  5 21 23    15.0 1   338.0     2.10    17.90    99.00    99.00
 9  5 21 24    15.0 1   353.0     1.50    17.40    99.00    99.00
 9  5 22  1    15.0 1   333.0     0.50    16.80    99.00    99.00
 9  5 22  2    15.0 1   342.0     0.50    16.10    99.00    99.00
 9  5 22  3    15.0 1     0.0     0.00    15.80    99.00    99.00
 9  5 22  4    15.0 1     0.0     0.00    15.50    99.00    99.00
 9  5 22  5    15.0 1     0.0     0.00    15.10    99.00    99.00
 9  5 22  6    15.0 1     0.0     0.00    14.90    99.00    99.00
 9  5 22  7    15.0 1     0.0     0.00    16.90    99.00    99.00
 9  5 22  8    15.0 1     0.0     0.00    18.80    99.00    99.00
 9  5 22  9    15.0 1     0.0     0.00    20.60    99.00    99.00
 9  5 22 10    15.0 1     0.0     0.00    22.50    99.00    99.00
 9  5 22 11    15.0 1     0.0     0.00    24.30    99.00    99.00
 9  5 22 12    15.0 1     0.0     0.00    26.00    99.00    99.00
 9  5 22 13    15.0 1   338.0     0.50    27.60    99.00    99.00
 9  5 22 14    15.0 1     2.0     1.50    28.80    99.00    99.00
 9  5 22 15    15.0 1     8.0     2.60    29.40    99.00    99.00
 9  5 22 16    15.0 1     0.0     0.00    29.60    99.00    99.00
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 9  5 22 17    15.0 1   344.0     2.60    29.40    99.00    99.00
 9  5 22 18    15.0 1   276.0     4.60    27.30    99.00    99.00
 9  5 22 19    15.0 1   256.0     5.70    22.90    99.00    99.00
 9  5 22 20    15.0 1   265.0     4.60    20.40    99.00    99.00
 9  5 22 21    15.0 1   291.0     3.10    19.10    99.00    99.00
 9  5 22 22    15.0 1   314.0     2.60    18.50    99.00    99.00
 9  5 22 23    15.0 1   340.0     1.50    17.90    99.00    99.00
 9  5 22 24    15.0 1     4.0     1.00    17.30    99.00    99.00
 9  5 23  1    15.0 1   335.0     1.00    16.60    99.00    99.00
 9  5 23  2    15.0 1    31.0     2.10    15.90    99.00    99.00
 9  5 23  3    15.0 1    32.0     2.60    15.10    99.00    99.00
 9  5 23  4    15.0 1    14.0     2.10    14.60    99.00    99.00
 9  5 23  5    15.0 1   331.0     1.50    14.10    99.00    99.00
 9  5 23  6    15.0 1   309.0     1.50    14.10    99.00    99.00
 9  5 23  7    15.0 1   295.0     2.10    15.90    99.00    99.00
 9  5 23  8    15.0 1   280.0     0.50    18.00    99.00    99.00
 9  5 23  9    15.0 1     0.0     0.00    20.30    99.00    99.00
 9  5 23 10    15.0 1     0.0     0.00    22.30    99.00    99.00
 9  5 23 11    15.0 1     0.0     0.00    24.10    99.00    99.00
 9  5 23 12    15.0 1     0.0     0.00    25.90    99.00    99.00
 9  5 23 13    15.0 1     0.0     0.00    27.40    99.00    99.00
 9  5 23 14    15.0 1   335.0     0.50    28.50    99.00    99.00
 9  5 23 15    15.0 1   346.0     1.00    29.10    99.00    99.00
 9  5 23 16    15.0 1   340.0     1.50    29.60    99.00    99.00
 9  5 23 17    15.0 1   312.0     2.60    29.10    99.00    99.00
 9  5 23 18    15.0 1   279.0     4.60    27.10    99.00    99.00
 9  5 23 19    15.0 1   272.0     5.10    23.30    99.00    99.00
 9  5 23 20    15.0 1   264.0     4.60    20.50    99.00    99.00
 9  5 23 21    15.0 1   264.0     5.10    18.50    99.00    99.00
 9  5 23 22    15.0 1   269.0     4.10    17.10    99.00    99.00
 9  5 23 23    15.0 1   271.0     2.60    16.30    99.00    99.00
 9  5 23 24    15.0 1   274.0     1.50    15.60    99.00    99.00
 9  5 24  1    15.0 1   266.0     1.00    15.10    99.00    99.00
 9  5 24  2    15.0 1   282.0     1.00    14.50    99.00    99.00
 9  5 24  3    15.0 1   291.0     1.50    13.90    99.00    99.00
 9  5 24  4    15.0 1   294.0     2.10    13.10    99.00    99.00
 9  5 24  5    15.0 1   291.0     2.10    12.90    99.00    99.00
 9  5 24  6    15.0 1   287.0     2.10    13.10    99.00    99.00
 9  5 24  7    15.0 1   295.0     1.50    15.10    99.00    99.00
 9  5 24  8    15.0 1     0.0     0.00    16.60    99.00    99.00
 9  5 24  9    15.0 1     0.0     0.00    18.40    99.00    99.00
 9  5 24 10    15.0 1     0.0     0.00    20.30    99.00    99.00
 9  5 24 11    15.0 1     0.0     0.00    22.10    99.00    99.00
 9  5 24 12    15.0 1     0.0     0.00    23.80    99.00    99.00
 9  5 24 13    15.0 1   308.0     0.50    25.10    99.00    99.00
 9  5 24 14    15.0 1   334.0     1.00    26.10    99.00    99.00
 9  5 24 15    15.0 1   344.0     2.10    26.60    99.00    99.00
 9  5 24 16    15.0 1     2.0     3.10    27.00    99.00    99.00
 9  5 24 17    15.0 1     0.0     0.00    26.80    99.00    99.00
 9  5 24 18    15.0 1     9.0     2.60    26.30    99.00    99.00
 9  5 24 19    15.0 1   304.0     3.10    25.60    99.00    99.00
 9  5 24 20    15.0 1   258.0     5.70    21.90    99.00    99.00
 9  5 24 21    15.0 1   260.0     5.70    18.80    99.00    99.00
 9  5 24 22    15.0 1   262.0     4.60    17.60    99.00    99.00
 9  5 24 23    15.0 1   263.0     4.10    16.60    99.00    99.00
 9  5 24 24    15.0 1   266.0     3.60    15.90    99.00    99.00
 9  5 25  1    15.0 1   273.0     2.10    15.50    99.00    99.00
 9  5 25  2    15.0 1   293.0     1.00    15.10    99.00    99.00
 9  5 25  3    15.0 1   293.0     1.00    14.80    99.00    99.00
 9  5 25  4    15.0 1   294.0     1.00    14.60    99.00    99.00
 9  5 25  5    15.0 1   277.0     1.00    14.40    99.00    99.00
 9  5 25  6    15.0 1   260.0     0.50    14.40    99.00    99.00
 9  5 25  7    15.0 1   290.0     0.50    16.10    99.00    99.00
 9  5 25  8    15.0 1     0.0     0.00    17.80    99.00    99.00
 9  5 25  9    15.0 1     0.0     0.00    19.40    99.00    99.00
 9  5 25 10    15.0 1     0.0     0.00    21.10    99.00    99.00
 9  5 25 11    15.0 1     0.0     0.00    22.80    99.00    99.00
 9  5 25 12    15.0 1     0.0     0.00    24.10    99.00    99.00
 9  5 25 13    15.0 1     0.0     0.00    25.50    99.00    99.00
 9  5 25 14    15.0 1     0.0     0.00    26.50    99.00    99.00
 9  5 25 15    15.0 1    11.0     1.00    27.10    99.00    99.00
 9  5 25 16    15.0 1     6.0     1.50    27.50    99.00    99.00
 9  5 25 17    15.0 1     9.0     2.60    27.40    99.00    99.00
 9  5 25 18    15.0 1    13.0     2.10    27.10    99.00    99.00
 9  5 25 19    15.0 1    10.0     2.10    26.50    99.00    99.00
 9  5 25 20    15.0 1   354.0     1.50    25.40    99.00    99.00
 9  5 25 21    15.0 1   268.0     3.60    23.80    99.00    99.00
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 9  5 25 22    15.0 1   273.0     5.10    20.40    99.00    99.00
 9  5 25 23    15.0 1   272.0     4.60    18.60    99.00    99.00
 9  5 25 24    15.0 1   285.0     3.10    17.80    99.00    99.00
 9  5 26  1    15.0 1   279.0     1.50    17.50    99.00    99.00
 9  5 26  2    15.0 1   249.0     1.00    17.40    99.00    99.00
 9  5 26  3    15.0 1   198.0     1.50    17.30    99.00    99.00
 9  5 26  4    15.0 1   196.0     1.50    17.00    99.00    99.00
 9  5 26  5    15.0 1   229.0     1.00    16.60    99.00    99.00
 9  5 26  6    15.0 1   268.0     1.00    16.50    99.00    99.00
 9  5 26  7    15.0 1   330.0     1.50    18.10    99.00    99.00
 9  5 26  8    15.0 1     0.0     0.00    20.00    99.00    99.00
 9  5 26  9    15.0 1     0.0     0.00    21.60    99.00    99.00
 9  5 26 10    15.0 1     0.0     0.00    23.30    99.00    99.00
 9  5 26 11    15.0 1     0.0     0.00    24.90    99.00    99.00
 9  5 26 12    15.0 1     0.0     0.00    26.40    99.00    99.00
 9  5 26 13    15.0 1     0.0     0.00    27.60    99.00    99.00
 9  5 26 14    15.0 1   322.0     0.50    28.50    99.00    99.00
 9  5 26 15    15.0 1   357.0     1.50    29.10    99.00    99.00
 9  5 26 16    15.0 1     7.0     2.60    29.50    99.00    99.00
 9  5 26 17    15.0 1    14.0     2.60    29.30    99.00    99.00
 9  5 26 18    15.0 1   347.0     1.50    29.00    99.00    99.00
 9  5 26 19    15.0 1   332.0     1.50    28.00    99.00    99.00
 9  5 26 20    15.0 1   300.0     1.50    26.90    99.00    99.00
 9  5 26 21    15.0 1   278.0     3.60    25.00    99.00    99.00
 9  5 26 22    15.0 1   289.0     4.10    22.10    99.00    99.00
 9  5 26 23    15.0 1   287.0     3.60    20.60    99.00    99.00
 9  5 26 24    15.0 1   298.0     2.60    19.80    99.00    99.00
 9  5 27  1    15.0 1   308.0     1.00    19.50    99.00    99.00
 9  5 27  2    15.0 1     0.0     0.00    19.40    99.00    99.00
 9  5 27  3    15.0 1   214.0     0.50    19.10    99.00    99.00
 9  5 27  4    15.0 1   211.0     1.50    18.50    99.00    99.00
 9  5 27  5    15.0 1   228.0     2.10    18.10    99.00    99.00
 9  5 27  6    15.0 1   253.0     2.10    18.10    99.00    99.00
 9  5 27  7    15.0 1   312.0     1.50    19.80    99.00    99.00
 9  5 27  8    15.0 1   295.0     0.50    21.60    99.00    99.00
 9  5 27  9    15.0 1   272.0     0.50    24.10    99.00    99.00
 9  5 27 10    15.0 1     0.0     0.00    26.00    99.00    99.00
 9  5 27 11    15.0 1     0.0     0.00    28.10    99.00    99.00
 9  5 27 12    15.0 1     0.0     0.00    29.80    99.00    99.00
 9  5 27 13    15.0 1     0.0     0.00    31.00    99.00    99.00
 9  5 27 14    15.0 1    30.0     0.50    31.90    99.00    99.00
 9  5 27 15    15.0 1    34.0     1.00    32.30    99.00    99.00
 9  5 27 16    15.0 1    26.0     2.10    32.30    99.00    99.00
 9  5 27 17    15.0 1    28.0     2.60    31.60    99.00    99.00
 9  5 27 18    15.0 1   337.0     2.10    31.50    99.00    99.00
 9  5 27 19    15.0 1   285.0     5.10    28.40    99.00    99.00
 9  5 27 20    15.0 1   271.0     4.10    24.60    99.00    99.00
 9  5 27 21    15.0 1   285.0     4.10    22.80    99.00    99.00
 9  5 27 22    15.0 1   296.0     2.60    21.80    99.00    99.00
 9  5 27 23    15.0 1     6.0     2.60    21.30    99.00    99.00
 9  5 27 24    15.0 1    30.0     3.60    20.40    99.00    99.00
 9  5 28  1    15.0 1    10.0     3.60    19.60    99.00    99.00
 9  5 28  2    15.0 1     0.0     0.00    18.90    99.00    99.00
 9  5 28  3    15.0 1     8.0     2.60    18.40    99.00    99.00
 9  5 28  4    15.0 1    18.0     1.50    18.10    99.00    99.00
 9  5 28  5    15.0 1    54.0     1.00    17.60    99.00    99.00
 9  5 28  6    15.0 1    88.0     1.00    17.60    99.00    99.00
 9  5 28  7    15.0 1     0.0     0.00    19.60    99.00    99.00
 9  5 28  8    15.0 1     0.0     0.00    21.90    99.00    99.00
 9  5 28  9    15.0 1     0.0     0.00    24.10    99.00    99.00
 9  5 28 10    15.0 1     0.0     0.00    26.10    99.00    99.00
 9  5 28 11    15.0 1     0.0     0.00    28.10    99.00    99.00
 9  5 28 12    15.0 1     0.0     0.00    30.10    99.00    99.00
 9  5 28 13    15.0 1    11.0     0.50    31.40    99.00    99.00
 9  5 28 14    15.0 1    33.0     3.10    31.90    99.00    99.00
 9  5 28 15    15.0 1    48.0     3.60    31.80    99.00    99.00
 9  5 28 16    15.0 1    78.0     5.10    30.10    99.00    99.00
 9  5 28 17    15.0 1    18.0     6.20    27.80    99.00    99.00
 9  5 28 18    15.0 1    61.0     2.10    27.60    99.00    99.00
 9  5 28 19    15.0 1    32.0     0.50    27.50    99.00    99.00
 9  5 28 20    15.0 1   294.0     2.60    26.80    99.00    99.00
 9  5 28 21    15.0 1   289.0     3.60    24.60    99.00    99.00
 9  5 28 22    15.0 1   313.0     3.60    23.50    99.00    99.00
 9  5 28 23    15.0 1   312.0     3.60    22.30    99.00    99.00
 9  5 28 24    15.0 1   306.0     4.60    21.10    99.00    99.00
 9  5 29  1    15.0 1   306.0     4.60    19.90    99.00    99.00
 9  5 29  2    15.0 1   330.0     3.10    19.30    99.00    99.00
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 9  5 29  3     15.0 1   320.0      4.10     18.50     99.00     99.00
 9  5 29  4     15.0 1   306.0      2.60     18.00     99.00     99.00
 9  5 29  5     15.0 1   314.0      2.10     17.90     99.00     99.00
 9  5 29  6     15.0 1    50.0      1.50     18.00     99.00     99.00
 9  5 29  7     15.0 1    65.0      1.00     18.60     99.00     99.00
 9  5 29  8     15.0 1     0.0      0.00     20.60     99.00     99.00
 9  5 29  9     15.0 1     0.0      0.00     23.10     99.00     99.00
 9  5 29 10     15.0 1     0.0      0.00     25.10     99.00     99.00
 9  5 29 11     15.0 1     0.0      0.00     27.40     99.00     99.00
 9  5 29 12     15.0 1     0.0      0.00     29.10     99.00     99.00
 9  5 29 13     15.0 1    19.0      1.00     30.30     99.00     99.00
 9  5 29 14     15.0 1    24.0      3.60     30.30     99.00     99.00
 9  5 29 15     15.0 1    34.0      4.60     28.90     99.00     99.00
 9  5 29 16     15.0 1    12.0      3.10     28.10     99.00     99.00
 9  5 29 17     15.0 1   323.0      3.60     28.00     99.00     99.00
 9  5 29 18     15.0 1   291.0      4.60     26.50     99.00     99.00
 9  5 29 19     15.0 1   268.0      5.10     24.10     99.00     99.00
 9  5 29 20     15.0 1   266.0      5.10     22.10     99.00     99.00
 9  5 29 21     15.0 1   276.0      3.60     20.90     99.00     99.00
 9  5 29 22     15.0 1   349.0      2.60     20.40     99.00     99.00
 9  5 29 23     15.0 1    35.0      3.10     20.00     99.00     99.00
 9  5 29 24     15.0 1    17.0      3.10     19.40     99.00     99.00
 9  5 30  1     15.0 1     6.0      2.60     18.60     99.00     99.00
 9  5 30  2     15.0 1     8.0      3.10     17.80     99.00     99.00
 9  5 30  3     15.0 1   350.0      3.10     16.80     99.00     99.00
 9  5 30  4     15.0 1   339.0      2.60     16.10     99.00     99.00
 9  5 30  5     15.0 1   351.0      2.10     15.90     99.00     99.00
 9  5 30  6     15.0 1    13.0      2.10     15.60     99.00     99.00
 9  5 30  7     15.0 1   335.0      1.50     16.60     99.00     99.00
 9  5 30  8     15.0 1     0.0      0.00     18.00     99.00     99.00
 9  5 30  9     15.0 1     0.0      0.00     19.40     99.00     99.00
 9  5 30 10     15.0 1     0.0      0.00     20.60     99.00     99.00
 9  5 30 11     15.0 1     0.0      0.00     22.10     99.00     99.00
 9  5 30 12     15.0 1     0.0      0.00     24.10     99.00     99.00
 9  5 30 13     15.0 1   356.0      1.00     25.80     99.00     99.00
 9  5 30 14     15.0 1    15.0      2.10     26.90     99.00     99.00
 9  5 30 15     15.0 1     6.0      3.60     27.10     99.00     99.00
 9  5 30 16     15.0 1     7.0      3.10     26.90     99.00     99.00
 9  5 30 17     15.0 1     0.0      0.00     26.80     99.00     99.00
 9  5 30 18     15.0 1    26.0      0.50     26.80     99.00     99.00
 9  5 30 19     15.0 1   295.0      2.10     26.10     99.00     99.00
 9  5 30 20     15.0 1   282.0      4.60     22.60     99.00     99.00
 9  5 30 21     15.0 1   282.0      4.60     19.60     99.00     99.00
 9  5 30 22     15.0 1   280.0      3.60     18.30     99.00     99.00
 9  5 30 23     15.0 1   288.0      3.10     17.50     99.00     99.00
 9  5 30 24     15.0 1   313.0      2.60     16.90     99.00     99.00
 9  5 31  1     15.0 1   323.0      2.60     16.60     99.00     99.00
 9  5 31  2     15.0 1   322.0      2.60     16.30     99.00     99.00
 9  5 31  3     15.0 1   322.0      1.50     16.10     99.00     99.00
 9  5 31  4     15.0 1   331.0      0.50     16.00     99.00     99.00
 9  5 31  5     15.0 1     0.0      0.00     15.80     99.00     99.00
 9  5 31  6     15.0 1     0.0      0.00     15.60     99.00     99.00
 9  5 31  7     15.0 1   356.0      0.50     16.30     99.00     99.00
 9  5 31  8     15.0 1     0.0      0.00     18.00     99.00     99.00
 9  5 31  9     15.0 1     0.0      0.00     19.80     99.00     99.00
 9  5 31 10     15.0 1     0.0      0.00     21.40     99.00     99.00
 9  5 31 11     15.0 1     0.0      0.00     22.80     99.00     99.00
 9  5 31 12     15.0 1     0.0      0.00     24.10     99.00     99.00
 9  5 31 13     15.0 1   351.0      0.50     25.60     99.00     99.00
 9  5 31 14     15.0 1     5.0      1.00     26.80     99.00     99.00
 9  5 31 15     15.0 1     5.0      2.10     27.60     99.00     99.00
 9  5 31 16     15.0 1    13.0      3.10     27.90     99.00     99.00
 9  5 31 17     15.0 1    12.0      3.10     27.60     99.00     99.00
 9  5 31 18     15.0 1     0.0      0.00     27.50     99.00     99.00
 9  5 31 19     15.0 1   354.0      1.50     26.80     99.00     99.00
 9  5 31 20     15.0 1   284.0      4.60     24.90     99.00     99.00
 9  5 31 21     15.0 1   271.0      5.10     20.40     99.00     99.00
 9  5 31 22     15.0 1   275.0      4.10     18.60     99.00     99.00
 9  5 31 23     15.0 1   267.0      3.60     17.80     99.00     99.00
 9  5 31 24     15.0 1   277.0      3.60     17.10     99.00     99.00
 9  6  1  1     15.0 1   294.0      2.60     16.90     99.00     99.00
 9  6  1  2     15.0 1   315.0      1.50     16.90     99.00     99.00
 9  6  1  3     15.0 1    18.0      0.50     16.90     99.00     99.00
 9  6  1  4     15.0 1    47.0      0.50     16.80     99.00     99.00
 9  6  1  5     15.0 1     0.0      0.00     16.60     99.00     99.00
 9  6  1  6     15.0 1     0.0      0.00     16.40     99.00     99.00
 9  6  1  7     15.0 1    12.0      1.00     17.40     99.00     99.00
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 9  6  1  8    15.0 1   343.0     0.50    18.80    99.00    99.00
 9  6  1  9    15.0 1     0.0     0.00    20.00    99.00    99.00
 9  6  1 10    15.0 1     0.0     0.00    21.10    99.00    99.00
 9  6  1 11    15.0 1     0.0     0.00    22.30    99.00    99.00
 9  6  1 12    15.0 1   286.0     0.50    23.40    99.00    99.00
 9  6  1 13    15.0 1   316.0     0.50    24.40    99.00    99.00
 9  6  1 14    15.0 1   350.0     1.00    25.10    99.00    99.00
 9  6  1 15    15.0 1     0.0     0.00    25.50    99.00    99.00
 9  6  1 16    15.0 1    11.0     2.10    25.90    99.00    99.00
 9  6  1 17    15.0 1    18.0     2.10    26.10    99.00    99.00
 9  6  1 18    15.0 1    51.0     2.10    26.10    99.00    99.00
 9  6  1 19    15.0 1   328.0     1.00    25.60    99.00    99.00
 9  6  1 20    15.0 1   277.0     4.60    23.10    99.00    99.00
 9  6  1 21    15.0 1   270.0     4.60    19.10    99.00    99.00
 9  6  1 22    15.0 1   266.0     4.60    17.50    99.00    99.00
 9  6  1 23    15.0 1   274.0     3.60    16.50    99.00    99.00
 9  6  1 24    15.0 1   284.0     3.10    15.60    99.00    99.00
 9  6  2  1    15.0 1   291.0     2.60    15.10    99.00    99.00
 9  6  2  2    15.0 1   298.0     1.50    15.10    99.00    99.00
 9  6  2  3    15.0 1   330.0     1.50    15.00    99.00    99.00
 9  6  2  4    15.0 1   332.0     1.50    14.90    99.00    99.00
 9  6  2  5    15.0 1   335.0     1.50    14.80    99.00    99.00
 9  6  2  6    15.0 1   330.0     1.50    14.60    99.00    99.00
 9  6  2  7    15.0 1   323.0     1.50    15.30    99.00    99.00
 9  6  2  8    15.0 1   312.0     0.50    16.60    99.00    99.00
 9  6  2  9    15.0 1     0.0     0.00    18.30    99.00    99.00
 9  6  2 10    15.0 1     0.0     0.00    19.80    99.00    99.00
 9  6  2 11    15.0 1     0.0     0.00    21.60    99.00    99.00
 9  6  2 12    15.0 1     0.0     0.00    23.10    99.00    99.00
 9  6  2 13    15.0 1     0.0     0.00    24.50    99.00    99.00
 9  6  2 14    15.0 1   331.0     0.50    25.80    99.00    99.00
 9  6  2 15    15.0 1   356.0     0.50    26.60    99.00    99.00
 9  6  2 16    15.0 1     2.0     1.00    27.10    99.00    99.00
 9  6  2 17    15.0 1     7.0     1.50    27.10    99.00    99.00
 9  6  2 18    15.0 1     4.0     2.10    27.00    99.00    99.00
 9  6  2 19    15.0 1   293.0     4.60    25.50    99.00    99.00
 9  6  2 20    15.0 1   284.0     5.10    21.10    99.00    99.00
 9  6  2 21    15.0 1   275.0     4.60    18.90    99.00    99.00
 9  6  2 22    15.0 1   281.0     4.60    17.50    99.00    99.00
 9  6  2 23    15.0 1   285.0     3.10    16.50    99.00    99.00
 9  6  2 24    15.0 1   324.0     1.50    16.00    99.00    99.00
 9  6  3  1    15.0 1    18.0     2.10    15.60    99.00    99.00
 9  6  3  2    15.0 1   347.0     1.50    15.00    99.00    99.00
 9  6  3  3    15.0 1   333.0     2.10    14.30    99.00    99.00
 9  6  3  4    15.0 1   312.0     2.60    13.80    99.00    99.00
 9  6  3  5    15.0 1   325.0     2.10    13.60    99.00    99.00
 9  6  3  6    15.0 1   334.0     1.50    13.60    99.00    99.00
 9  6  3  7    15.0 1   323.0     1.50    14.80    99.00    99.00
 9  6  3  8    15.0 1   333.0     1.50    16.10    99.00    99.00
 9  6  3  9    15.0 1   325.0     0.50    17.90    99.00    99.00
 9  6  3 10    15.0 1     0.0     0.00    19.60    99.00    99.00
 9  6  3 11    15.0 1     0.0     0.00    21.60    99.00    99.00
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 9  6  3 15    15.0 1   135.0     1.00    28.90    99.00    99.00
 9  6  3 16    15.0 1   195.0     2.60    29.60    99.00    99.00
 9  6  3 17    15.0 1   216.0     3.60    28.30    99.00    99.00
 9  6  3 18    15.0 1   241.0     4.10    26.10    99.00    99.00
 9  6  3 19    15.0 1   268.0     4.60    23.40    99.00    99.00
 9  6  3 20    15.0 1   289.0     4.10    20.60    99.00    99.00
 9  6  3 21    15.0 1   306.0     3.60    18.80    99.00    99.00
 9  6  3 22    15.0 1   335.0     3.60    17.60    99.00    99.00
 9  6  3 23    15.0 1   348.0     3.10    16.60    99.00    99.00
 9  6  3 24    15.0 1   337.0     3.60    15.60    99.00    99.00
 9  6  4  1    15.0 1   319.0     4.10    14.50    99.00    99.00
 9  6  4  2    15.0 1   309.0     4.10    13.50    99.00    99.00
 9  6  4  3    15.0 1   316.0     3.60    12.80    99.00    99.00
 9  6  4  4    15.0 1   327.0     3.60    12.30    99.00    99.00
 9  6  4  5    15.0 1   320.0     3.10    11.90    99.00    99.00
 9  6  4  6    15.0 1   289.0     4.10    12.50    99.00    99.00
 9  6  4  7    15.0 1   286.0     3.60    14.00    99.00    99.00
 9  6  4  8    15.0 1   300.0     1.50    15.60    99.00    99.00
 9  6  4  9    15.0 1     0.0     0.00    17.10    99.00    99.00
 9  6  4 10    15.0 1     0.0     0.00    19.10    99.00    99.00
 9  6  4 11    15.0 1     0.0     0.00    20.60    99.00    99.00
 9  6  4 12    15.0 1     0.0     0.00    22.10    99.00    99.00
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 9  6  4 13    15.0 1   310.0     0.50    23.40    99.00    99.00
 9  6  4 14    15.0 1   325.0     0.50    24.40    99.00    99.00
 9  6  4 15    15.0 1   322.0     1.00    25.10    99.00    99.00
 9  6  4 16    15.0 1   329.0     1.00    25.40    99.00    99.00
 9  6  4 17    15.0 1   322.0     1.50    25.50    99.00    99.00
 9  6  4 18    15.0 1   293.0     2.60    24.90    99.00    99.00
 9  6  4 19    15.0 1   257.0     5.70    21.50    99.00    99.00
 9  6  4 20    15.0 1   260.0     5.70    18.40    99.00    99.00
 9  6  4 21    15.0 1   259.0     5.70    16.60    99.00    99.00
 9  6  4 22    15.0 1   265.0     4.60    15.30    99.00    99.00
 9  6  4 23    15.0 1   252.0     2.10    14.60    99.00    99.00
 9  6  4 24    15.0 1   205.0     1.50    14.60    99.00    99.00
 9  6  5  1    15.0 1   199.0     2.10    14.50    99.00    99.00
 9  6  5  2    15.0 1   199.0     1.50    14.10    99.00    99.00
 9  6  5  3    15.0 1   198.0     1.50    13.90    99.00    99.00
 9  6  5  4    15.0 1   207.0     2.10    13.40    99.00    99.00
 9  6  5  5    15.0 1   224.0     2.60    13.10    99.00    99.00
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 9  6  5 14    15.0 1   345.0     1.00    21.10    99.00    99.00
 9  6  5 15    15.0 1   344.0     1.50    21.60    99.00    99.00
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 9  6  5 17    15.0 1   341.0     2.60    22.10    99.00    99.00
 9  6  5 18    15.0 1   355.0     2.10    21.60    99.00    99.00
 9  6  5 19    15.0 1   349.0     3.10    20.90    99.00    99.00
 9  6  5 20    15.0 1   299.0     3.60    19.50    99.00    99.00
 9  6  5 21    15.0 1   269.0     5.10    16.90    99.00    99.00
 9  6  5 22    15.0 1   279.0     5.70    14.90    99.00    99.00
 9  6  5 23    15.0 1   273.0     5.10    13.80    99.00    99.00
 9  6  5 24    15.0 1   270.0     4.10    13.00    99.00    99.00
 9  6  6  1    15.0 1   275.0     3.60    12.50    99.00    99.00
 9  6  6  2    15.0 1   259.0     2.60    12.10    99.00    99.00
 9  6  6  3    15.0 1   239.0     1.50    12.00    99.00    99.00
 9  6  6  4    15.0 1   240.0     1.00    11.80    99.00    99.00
 9  6  6  5    15.0 1   280.0     1.50    11.60    99.00    99.00
 9  6  6  6    15.0 1   285.0     3.60    11.90    99.00    99.00
 9  6  6  7    15.0 1   286.0     3.10    12.40    99.00    99.00
 9  6  6  8    15.0 1   315.0     2.60    12.90    99.00    99.00
 9  6  6  9    15.0 1   313.0     1.50    13.40    99.00    99.00
 9  6  6 10    15.0 1     0.0     0.00    14.10    99.00    99.00
 9  6  6 11    15.0 1     0.0     0.00    15.60    99.00    99.00
 9  6  6 12    15.0 1     0.0     0.00    17.10    99.00    99.00
 9  6  6 13    15.0 1     0.0     0.00    18.80    99.00    99.00
 9  6  6 14    15.0 1     0.0     0.00    20.00    99.00    99.00
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 9  6  6 16    15.0 1    28.0     1.50    21.30    99.00    99.00
 9  6  6 17    15.0 1    40.0     2.60    21.30    99.00    99.00
 9  6  6 18    15.0 1    46.0     2.60    20.90    99.00    99.00
 9  6  6 19    15.0 1    63.0     3.10    20.10    99.00    99.00
 9  6  6 20    15.0 1    38.0     1.00    19.10    99.00    99.00
 9  6  6 21    15.0 1   265.0     4.10    17.60    99.00    99.00
 9  6  6 22    15.0 1   274.0     4.10    15.10    99.00    99.00
 9  6  6 23    15.0 1   260.0     4.10    13.80    99.00    99.00
 9  6  6 24    15.0 1   259.0     3.10    13.10    99.00    99.00
 9  6  7  1    15.0 1   249.0     3.10    12.60    99.00    99.00
 9  6  7  2    15.0 1   248.0     3.10    12.10    99.00    99.00
 9  6  7  3    15.0 1   259.0     2.60    11.80    99.00    99.00
 9  6  7  4    15.0 1   263.0     1.50    11.50    99.00    99.00
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 9  6  7  6    15.0 1   294.0     1.50    12.00    99.00    99.00
 9  6  7  7    15.0 1   309.0     0.50    13.30    99.00    99.00
 9  6  7  8    15.0 1   188.0     0.50    14.00    99.00    99.00
 9  6  7  9    15.0 1   173.0     1.00    14.90    99.00    99.00
 9  6  7 10    15.0 1     0.0     0.00    16.90    99.00    99.00
 9  6  7 11    15.0 1     0.0     0.00    18.80    99.00    99.00
 9  6  7 12    15.0 1     0.0     0.00    20.40    99.00    99.00
 9  6  7 13    15.0 1     0.0     0.00    21.60    99.00    99.00
 9  6  7 14    15.0 1    26.0     0.50    22.60    99.00    99.00
 9  6  7 15    15.0 1    23.0     1.00    23.40    99.00    99.00
 9  6  7 16    15.0 1    23.0     2.10    23.90    99.00    99.00
 9  6  7 17    15.0 1    22.0     2.60    24.00    99.00    99.00
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9	6	7	18	15.0	1	29.0	2.10	23.80	99.00	99.00
9	6	7	19	15.0	1	43.0	2.10	23.30	99.00	99.00
9	6	7	20	15.0	1	256.0	2.60	22.30	99.00	99.00
9	6	7	21	15.0	1	272.0	5.70	18.30	99.00	99.00
9	6	7	22	15.0	1	268.0	5.10	16.50	99.00	99.00
9	6	7	23	15.0	1	271.0	4.10	15.60	99.00	99.00
9	6	7	24	15.0	1	265.0	3.10	15.00	99.00	99.00
9	6	8	1	15.0	1	250.0	1.50	14.50	99.00	99.00
9	6	8	2	15.0	1	195.0	0.50	14.10	99.00	99.00
9	6	8	3	15.0	1	193.0	0.50	13.60	99.00	99.00
9	6	8	4	15.0	1	246.0	1.00	13.50	99.00	99.00
9	6	8	5	15.0	1	268.0	1.00	13.10	99.00	99.00
9	6	8	6	15.0	1	296.0	1.00	13.40	99.00	99.00
9	6	8	7	15.0	1	307.0	1.00	15.00	99.00	99.00
9	6	8	8	15.0	1	0.0	0.00	16.40	99.00	99.00
9	6	8	9	15.0	1	0.0	0.00	17.60	99.00	99.00
9	6	8	10	15.0	1	0.0	0.00	19.10	99.00	99.00
9	6	8	11	15.0	1	0.0	0.00	20.80	99.00	99.00
9	6	8	12	15.0	1	0.0	0.00	22.30	99.00	99.00
9	6	8	13	15.0	1	0.0	0.00	23.60	99.00	99.00
9	6	8	14	15.0	1	0.0	0.00	24.60	99.00	99.00
9	6	8	15	15.0	1	13.0	0.50	25.30	99.00	99.00
9	6	8	16	15.0	1	9.0	1.00	25.60	99.00	99.00
9	6	8	17	15.0	1	4.0	1.50	25.80	99.00	99.00
9	6	8	18	15.0	1	304.0	2.60	25.50	99.00	99.00
9	6	8	19	15.0	1	273.0	5.10	21.90	99.00	99.00
9	6	8	20	15.0	1	268.0	5.70	18.60	99.00	99.00
9	6	8	21	15.0	1	259.0	4.60	16.90	99.00	99.00
9	6	8	22	15.0	1	260.0	4.10	15.60	99.00	99.00
9	6	8	23	15.0	1	269.0	3.10	14.90	99.00	99.00
9	6	8	24	15.0	1	307.0	1.00	14.40	99.00	99.00
9	6	9	1	15.0	1	10.0	0.50	14.10	99.00	99.00
9	6	9	2	15.0	1	280.0	1.00	13.60	99.00	99.00
9	6	9	3	15.0	1	286.0	1.00	13.10	99.00	99.00
9	6	9	4	15.0	1	307.0	1.00	12.60	99.00	99.00
9	6	9	5	15.0	1	290.0	1.00	12.40	99.00	99.00
9	6	9	6	15.0	1	287.0	2.10	12.60	99.00	99.00
9	6	9	7	15.0	1	305.0	1.50	14.30	99.00	99.00
9	6	9	8	15.0	1	0.0	0.00	15.90	99.00	99.00
9	6	9	9	15.0	1	0.0	0.00	17.30	99.00	99.00
9	6	9	10	15.0	1	0.0	0.00	19.10	99.00	99.00
9	6	9	11	15.0	1	0.0	0.00	20.60	99.00	99.00
9	6	9	12	15.0	1	0.0	0.00	22.10	99.00	99.00
9	6	9	13	15.0	1	0.0	0.00	23.40	99.00	99.00
9	6	9	14	15.0	1	4.0	0.50	24.50	99.00	99.00
9	6	9	15	15.0	1	0.0	0.00	25.10	99.00	99.00
9	6	9	16	15.0	1	321.0	2.60	25.40	99.00	99.00
9	6	9	17	15.0	1	299.0	4.10	25.10	99.00	99.00
9	6	9	18	15.0	1	283.0	4.10	24.00	99.00	99.00
9	6	9	19	15.0	1	269.0	5.10	21.10	99.00	99.00
9	6	9	20	15.0	1	274.0	6.20	18.60	99.00	99.00
9	6	9	21	15.0	1	266.0	5.10	17.30	99.00	99.00
9	6	9	22	15.0	1	268.0	4.60	16.30	99.00	99.00
9	6	9	23	15.0	1	274.0	4.60	15.30	99.00	99.00
9	6	9	24	15.0	1	277.0	4.60	14.80	99.00	99.00
9	6	10	1	15.0	1	276.0	4.10	14.80	99.00	99.00
9	6	10	2	15.0	1	280.0	2.10	14.90	99.00	99.00
9	6	10	3	15.0	1	0.0	0.00	15.00	99.00	99.00
9	6	10	4	15.0	1	157.0	0.50	15.10	99.00	99.00
9	6	10	5	15.0	1	200.0	0.50	15.10	99.00	99.00
9	6	10	6	15.0	1	231.0	0.50	15.10	99.00	99.00
9	6	10	7	15.0	1	240.0	0.50	15.10	99.00	99.00
9	6	10	8	15.0	1	305.0	2.10	15.30	99.00	99.00
9	6	10	9	15.0	1	0.0	0.00	15.60	99.00	99.00
9	6	10	10	15.0	1	0.0	0.00	16.40	99.00	99.00
9	6	10	11	15.0	1	0.0	0.00	17.90	99.00	99.00
9	6	10	12	15.0	1	0.0	0.00	19.40	99.00	99.00
9	6	10	13	15.0	1	0.0	0.00	20.90	99.00	99.00
9	6	10	14	15.0	1	57.0	0.50	22.10	99.00	99.00
9	6	10	15	15.0	1	41.0	0.50	23.10	99.00	99.00
9	6	10	16	15.0	1	29.0	1.50	23.60	99.00	99.00
9	6	10	17	15.0	1	31.0	2.10	23.60	99.00	99.00
9	6	10	18	15.0	1	49.0	2.10	23.60	99.00	99.00
9	6	10	19	15.0	1	46.0	2.10	23.10	99.00	99.00
9	6	10	20	15.0	1	265.0	3.10	21.60	99.00	99.00
9	6	10	21	15.0	1	267.0	4.60	18.30	99.00	99.00
9	6	10	22	15.0	1	270.0	4.60	16.60	99.00	99.00

9	6	10	23	15.0	1	262.0	4.60	15.60	99.00	99.00
9	6	10	24	15.0	1	260.0	3.10	15.10	99.00	99.00
9	6	11	1	15.0	1	264.0	2.10	14.80	99.00	99.00
9	6	11	2	15.0	1	262.0	1.00	14.60	99.00	99.00
9	6	11	3	15.0	1	351.0	0.50	14.40	99.00	99.00
9	6	11	4	15.0	1	356.0	0.50	14.50	99.00	99.00
9	6	11	5	15.0	1	317.0	1.00	14.60	99.00	99.00
9	6	11	6	15.0	1	301.0	1.00	14.80	99.00	99.00
9	6	11	7	15.0	1	306.0	1.50	15.10	99.00	99.00
9	6	11	8	15.0	1	311.0	1.50	15.60	99.00	99.00
9	6	11	9	15.0	1	0.0	0.00	16.90	99.00	99.00
9	6	11	10	15.0	1	0.0	0.00	18.80	99.00	99.00
9	6	11	11	15.0	1	0.0	0.00	20.30	99.00	99.00
9	6	11	12	15.0	1	0.0	0.00	21.60	99.00	99.00
9	6	11	13	15.0	1	0.0	0.00	22.90	99.00	99.00
9	6	11	14	15.0	1	0.0	0.00	23.90	99.00	99.00
9	6	11	15	15.0	1	348.0	0.50	24.60	99.00	99.00
9	6	11	16	15.0	1	360.0	1.00	25.10	99.00	99.00
9	6	11	17	15.0	1	12.0	2.10	25.10	99.00	99.00
9	6	11	18	15.0	1	32.0	2.10	25.10	99.00	99.00
9	6	11	19	15.0	1	11.0	2.10	24.60	99.00	99.00
9	6	11	20	15.0	1	269.0	3.60	22.90	99.00	99.00
9	6	11	21	15.0	1	268.0	5.70	19.60	99.00	99.00
9	6	11	22	15.0	1	270.0	5.70	17.80	99.00	99.00
9	6	11	23	15.0	1	285.0	5.10	16.60	99.00	99.00
9	6	11	24	15.0	1	280.0	4.60	16.10	99.00	99.00
9	6	12	1	15.0	1	292.0	4.10	15.60	99.00	99.00
9	6	12	2	15.0	1	298.0	3.10	15.40	99.00	99.00
9	6	12	3	15.0	1	308.0	2.10	15.50	99.00	99.00
9	6	12	4	15.0	1	306.0	1.50	15.60	99.00	99.00
9	6	12	5	15.0	1	302.0	1.50	15.60	99.00	99.00
9	6	12	6	15.0	1	314.0	1.00	15.60	99.00	99.00
9	6	12	7	15.0	1	318.0	1.00	15.80	99.00	99.00
9	6	12	8	15.0	1	330.0	1.00	16.00	99.00	99.00
9	6	12	9	15.0	1	0.0	0.00	17.60	99.00	99.00
9	6	12	10	15.0	1	0.0	0.00	19.00	99.00	99.00
9	6	12	11	15.0	1	0.0	0.00	20.40	99.00	99.00
9	6	12	12	15.0	1	0.0	0.00	21.60	99.00	99.00
9	6	12	13	15.0	1	0.0	0.00	22.60	99.00	99.00
9	6	12	14	15.0	1	0.0	0.00	23.50	99.00	99.00
9	6	12	15	15.0	1	0.0	0.00	23.90	99.00	99.00
9	6	12	16	15.0	1	312.0	0.50	24.10	99.00	99.00
9	6	12	17	15.0	1	319.0	0.50	24.30	99.00	99.00
9	6	12	18	15.0	1	274.0	2.10	24.00	99.00	99.00
9	6	12	19	15.0	1	264.0	4.10	21.60	99.00	99.00
9	6	12	20	15.0	1	270.0	5.70	19.30	99.00	99.00
9	6	12	21	15.0	1	271.0	6.20	18.00	99.00	99.00
9	6	12	22	15.0	1	266.0	5.70	17.10	99.00	99.00
9	6	12	23	15.0	1	267.0	5.10	16.50	99.00	99.00
9	6	12	24	15.0	1	274.0	4.10	16.10	99.00	99.00
9	6	13	1	15.0	1	279.0	3.10	15.80	99.00	99.00
9	6	13	2	15.0	1	293.0	2.60	15.50	99.00	99.00
9	6	13	3	15.0	1	288.0	2.60	15.10	99.00	99.00
9	6	13	4	15.0	1	292.0	2.60	14.90	99.00	99.00
9	6	13	5	15.0	1	290.0	2.60	14.80	99.00	99.00
9	6	13	6	15.0	1	282.0	2.60	14.60	99.00	99.00
9	6	13	7	15.0	1	285.0	3.10	14.60	99.00	99.00
9	6	13	8	15.0	1	280.0	1.50	15.30	99.00	99.00
9	6	13	9	15.0	1	0.0	0.00	15.90	99.00	99.00
9	6	13	10	15.0	1	0.0	0.00	16.40	99.00	99.00
9	6	13	11	15.0	1	0.0	0.00	17.80	99.00	99.00
9	6	13	12	15.0	1	0.0	0.00	19.60	99.00	99.00
9	6	13	13	15.0	1	0.0	0.00	21.30	99.00	99.00
9	6	13	14	15.0	1	0.0	0.00	22.60	99.00	99.00
9	6	13	15	15.0	1	350.0	1.00	23.60	99.00	99.00
9	6	13	16	15.0	1	4.0	2.10	24.10	99.00	99.00
9	6	13	17	15.0	1	0.0	0.00	24.10	99.00	99.00
9	6	13	18	15.0	1	15.0	2.60	23.60	99.00	99.00
9	6	13	19	15.0	1	356.0	2.60	23.10	99.00	99.00
9	6	13	20	15.0	1	276.0	4.10	21.60	99.00	99.00
9	6	13	21	15.0	1	268.0	5.70	18.10	99.00	99.00
9	6	13	22	15.0	1	267.0	5.70	16.60	99.00	99.00
9	6	13	23	15.0	1	267.0	5.10	15.60	99.00	99.00
9	6	13	24	15.0	1	268.0	4.60	15.00	99.00	99.00
9	6	14	1	15.0	1	269.0	3.60	14.40	99.00	99.00
9	6	14	2	15.0	1	250.0	1.50	14.00	99.00	99.00
9	6	14	3	15.0	1	229.0	1.00	13.60	99.00	99.00

```
 9  6 14  4    15.0 1   290.0     0.50    13.50    99.00    99.00
 9  6 14  5    15.0 1   317.0     0.50    13.40    99.00    99.00
 9  6 14  6    15.0 1   321.0     1.50    13.60    99.00    99.00
 9  6 14  7    15.0 1   319.0     2.10    14.00    99.00    99.00
 9  6 14  8    15.0 1   317.0     1.50    14.50    99.00    99.00
 9  6 14  9    15.0 1     0.0     0.00    16.60    99.00    99.00
 9  6 14 10    15.0 1     0.0     0.00    18.60    99.00    99.00
 9  6 14 11    15.0 1     0.0     0.00    20.10    99.00    99.00
 9  6 14 12    15.0 1     0.0     0.00    21.60    99.00    99.00
 9  6 14 13    15.0 1     0.0     0.00    22.90    99.00    99.00
 9  6 14 14    15.0 1     0.0     0.00    23.90    99.00    99.00
 9  6 14 15    15.0 1   340.0     0.50    24.60    99.00    99.00
 9  6 14 16    15.0 1     8.0     1.50    24.80    99.00    99.00
 9  6 14 17    15.0 1    18.0     2.60    24.80    99.00    99.00
 9  6 14 18    15.0 1    34.0     2.60    24.50    99.00    99.00
 9  6 14 19    15.0 1    46.0     3.10    23.80    99.00    99.00
 9  6 14 20    15.0 1    59.0     1.50    22.80    99.00    99.00
 9  6 14 21    15.0 1   256.0     4.10    21.10    99.00    99.00
 9  6 14 22    15.0 1   267.0     4.60    18.10    99.00    99.00
 9  6 14 23    15.0 1   258.0     3.60    16.80    99.00    99.00
 9  6 14 24    15.0 1   259.0     3.10    16.00    99.00    99.00
 9  6 15  1    15.0 1   272.0     2.10    15.40    99.00    99.00
 9  6 15  2    15.0 1   271.0     1.00    15.00    99.00    99.00
 9  6 15  3    15.0 1   260.0     0.50    14.60    99.00    99.00
 9  6 15  4    15.0 1   274.0     0.50    14.40    99.00    99.00
 9  6 15  5    15.0 1   275.0     0.50    14.10    99.00    99.00
 9  6 15  6    15.0 1   292.0     0.50    14.30    99.00    99.00
 9  6 15  7    15.0 1     0.0     0.00    16.00    99.00    99.00
 9  6 15  8    15.0 1     0.0     0.00    17.60    99.00    99.00
 9  6 15  9    15.0 1     0.0     0.00    18.80    99.00    99.00
 9  6 15 10    15.0 1     0.0     0.00    20.10    99.00    99.00
 9  6 15 11    15.0 1     0.0     0.00    21.60    99.00    99.00
 9  6 15 12    15.0 1     0.0     0.00    23.00    99.00    99.00
 9  6 15 13    15.0 1     0.0     0.00    24.00    99.00    99.00
 9  6 15 14    15.0 1   337.0     0.50    24.60    99.00    99.00
 9  6 15 15    15.0 1   355.0     1.50    25.10    99.00    99.00
 9  6 15 16    15.0 1     0.0     0.00    25.30    99.00    99.00
 9  6 15 17    15.0 1     9.0     2.10    25.10    99.00    99.00
 9  6 15 18    15.0 1   336.0     2.10    25.10    99.00    99.00
 9  6 15 19    15.0 1   285.0     3.60    24.00    99.00    99.00
 9  6 15 20    15.0 1   257.0     4.60    21.40    99.00    99.00
 9  6 15 21    15.0 1   260.0     4.60    19.50    99.00    99.00
 9  6 15 22    15.0 1   275.0     4.60    18.40    99.00    99.00
 9  6 15 23    15.0 1   271.0     3.60    17.50    99.00    99.00
 9  6 15 24    15.0 1   273.0     3.10    16.90    99.00    99.00
 9  6 16  1    15.0 1   270.0     1.50    16.80    99.00    99.00
 9  6 16  2    15.0 1   247.0     1.00    16.60    99.00    99.00
 9  6 16  3    15.0 1   230.0     1.00    16.40    99.00    99.00
 9  6 16  4    15.0 1   240.0     1.00    16.00    99.00    99.00
 9  6 16  5    15.0 1   229.0     1.00    15.60    99.00    99.00
 9  6 16  6    15.0 1   241.0     1.00    15.60    99.00    99.00
 9  6 16  7    15.0 1   269.0     0.50    17.60    99.00    99.00
 9  6 16  8    15.0 1     0.0     0.00    19.10    99.00    99.00
 9  6 16  9    15.0 1     0.0     0.00    20.60    99.00    99.00
 9  6 16 10    15.0 1     0.0     0.00    22.10    99.00    99.00
 9  6 16 11    15.0 1     0.0     0.00    23.60    99.00    99.00
 9  6 16 12    15.0 1     0.0     0.00    25.10    99.00    99.00
 9  6 16 13    15.0 1     0.0     0.00    26.30    99.00    99.00
 9  6 16 14    15.0 1   339.0     0.50    27.10    99.00    99.00
 9  6 16 15    15.0 1   360.0     1.00    27.80    99.00    99.00
 9  6 16 16    15.0 1    13.0     2.10    28.10    99.00    99.00
 9  6 16 17    15.0 1    22.0     2.10    28.10    99.00    99.00
 9  6 16 18    15.0 1    15.0     1.50    27.80    99.00    99.00
 9  6 16 19    15.0 1     4.0     1.50    27.30    99.00    99.00
 9  6 16 20    15.0 1   271.0     4.10    25.80    99.00    99.00
 9  6 16 21    15.0 1   257.0     5.70    21.00    99.00    99.00
 9  6 16 22    15.0 1   257.0     5.10    19.50    99.00    99.00
 9  6 16 23    15.0 1   257.0     4.10    18.60    99.00    99.00
 9  6 16 24    15.0 1   250.0     2.10    18.10    99.00    99.00
 9  6 17  1    15.0 1   156.0     1.00    18.10    99.00    99.00
 9  6 17  2    15.0 1   129.0     1.50    17.80    99.00    99.00
 9  6 17  3    15.0 1   177.0     0.50    17.50    99.00    99.00
 9  6 17  4    15.0 1   288.0     0.50    17.30    99.00    99.00
 9  6 17  5    15.0 1   309.0     0.50    17.00    99.00    99.00
 9  6 17  6    15.0 1   312.0     1.00    17.10    99.00    99.00
 9  6 17  7    15.0 1   347.0     1.50    18.60    99.00    99.00
 9  6 17  8    15.0 1   333.0     0.50    19.90    99.00    99.00
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 9  6 17  9    15.0 1     0.0     0.00    21.30    99.00    99.00
 9  6 17 10    15.0 1     0.0     0.00    23.00    99.00    99.00
 9  6 17 11    15.0 1     0.0     0.00    24.60    99.00    99.00
 9  6 17 12    15.0 1     0.0     0.00    26.00    99.00    99.00
 9  6 17 13    15.0 1     0.0     0.00    27.10    99.00    99.00
 9  6 17 14    15.0 1   347.0     0.50    28.00    99.00    99.00
 9  6 17 15    15.0 1    13.0     1.50    28.60    99.00    99.00
 9  6 17 16    15.0 1     8.0     2.60    28.90    99.00    99.00
 9  6 17 17    15.0 1     8.0     3.10    28.80    99.00    99.00
 9  6 17 18    15.0 1     0.0     0.00    28.50    99.00    99.00
 9  6 17 19    15.0 1     2.0     2.60    27.90    99.00    99.00
 9  6 17 20    15.0 1   342.0     2.10    26.80    99.00    99.00
 9  6 17 21    15.0 1   285.0     3.10    25.60    99.00    99.00
 9  6 17 22    15.0 1   275.0     4.60    22.40    99.00    99.00
 9  6 17 23    15.0 1   273.0     3.60    20.90    99.00    99.00
 9  6 17 24    15.0 1   269.0     2.60    20.60    99.00    99.00
 9  6 18  1    15.0 1   260.0     1.50    20.40    99.00    99.00
 9  6 18  2    15.0 1   252.0     1.00    20.10    99.00    99.00
 9  6 18  3    15.0 1   254.0     0.50    19.90    99.00    99.00
 9  6 18  4    15.0 1   265.0     0.50    19.60    99.00    99.00
 9  6 18  5    15.0 1   261.0     0.50    19.10    99.00    99.00
 9  6 18  6    15.0 1   265.0     1.00    19.00    99.00    99.00
 9  6 18  7    15.0 1   316.0     1.00    20.80    99.00    99.00
 9  6 18  8    15.0 1     0.0     0.00    22.60    99.00    99.00
 9  6 18  9    15.0 1     0.0     0.00    24.60    99.00    99.00
 9  6 18 10    15.0 1     0.0     0.00    26.50    99.00    99.00
 9  6 18 11    15.0 1     0.0     0.00    28.30    99.00    99.00
 9  6 18 12    15.0 1     0.0     0.00    29.60    99.00    99.00
 9  6 18 13    15.0 1     0.0     0.00    30.90    99.00    99.00
 9  6 18 14    15.0 1   352.0     0.50    31.80    99.00    99.00
 9  6 18 15    15.0 1    12.0     1.00    32.30    99.00    99.00
 9  6 18 16    15.0 1    10.0     2.10    32.50    99.00    99.00
 9  6 18 17    15.0 1    16.0     3.10    32.00    99.00    99.00
 9  6 18 18    15.0 1    21.0     3.10    31.30    99.00    99.00
 9  6 18 19    15.0 1    21.0     3.10    30.40    99.00    99.00
 9  6 18 20    15.0 1   350.0     2.10    29.10    99.00    99.00
 9  6 18 21    15.0 1   298.0     2.10    28.00    99.00    99.00
 9  6 18 22    15.0 1   290.0     2.60    26.90    99.00    99.00
 9  6 18 23    15.0 1   267.0     3.10    25.50    99.00    99.00
 9  6 18 24    15.0 1   250.0     2.10    24.40    99.00    99.00
 9  6 19  1    15.0 1   302.0     1.00    23.80    99.00    99.00
 9  6 19  2    15.0 1     5.0     1.50    23.10    99.00    99.00
 9  6 19  3    15.0 1    68.0     0.50    22.50    99.00    99.00
 9  6 19  4    15.0 1   228.0     0.50    21.80    99.00    99.00
 9  6 19  5    15.0 1   294.0     1.00    21.50    99.00    99.00
 9  6 19  6    15.0 1   286.0     1.50    21.10    99.00    99.00
 9  6 19  7    15.0 1   313.0     1.50    21.50    99.00    99.00
 9  6 19  8    15.0 1   356.0     1.00    23.50    99.00    99.00
 9  6 19  9    15.0 1     0.0     0.00    26.10    99.00    99.00
 9  6 19 10    15.0 1     0.0     0.00    28.10    99.00    99.00
 9  6 19 11    15.0 1     0.0     0.00    29.50    99.00    99.00
 9  6 19 12    15.0 1     0.0     0.00    30.90    99.00    99.00
 9  6 19 13    15.0 1     0.0     0.00    32.00    99.00    99.00
 9  6 19 14    15.0 1   332.0     0.50    32.80    99.00    99.00
 9  6 19 15    15.0 1   356.0     1.50    33.00    99.00    99.00
 9  6 19 16    15.0 1     0.0     0.00    31.10    99.00    99.00
 9  6 19 17    15.0 1     0.0     0.00    31.30    99.00    99.00
 9  6 19 18    15.0 1   351.0     2.60    31.00    99.00    99.00
 9  6 19 19    15.0 1   334.0     3.60    30.10    99.00    99.00
 9  6 19 20    15.0 1   308.0     4.10    28.30    99.00    99.00
 9  6 19 21    15.0 1   316.0     4.10    26.30    99.00    99.00
 9  6 19 22    15.0 1   316.0     4.60    24.40    99.00    99.00
 9  6 19 23    15.0 1   304.0     4.10    22.80    99.00    99.00
 9  6 19 24    15.0 1   308.0     3.60    21.60    99.00    99.00
 9  6 20  1    15.0 1   311.0     3.10    20.90    99.00    99.00
 9  6 20  2    15.0 1   312.0     2.10    20.40    99.00    99.00
 9  6 20  3    15.0 1   281.0     1.00    19.90    99.00    99.00
 9  6 20  4    15.0 1   281.0     1.00    19.40    99.00    99.00
 9  6 20  5    15.0 1   288.0     1.00    18.80    99.00    99.00
 9  6 20  6    15.0 1   321.0     0.50    18.60    99.00    99.00
 9  6 20  7    15.0 1   337.0     1.50    19.50    99.00    99.00
 9  6 20  8    15.0 1   340.0     1.00    20.50    99.00    99.00
 9  6 20  9    15.0 1   321.0     0.50    21.60    99.00    99.00
 9  6 20 10    15.0 1   312.0     0.50    23.30    99.00    99.00
 9  6 20 11    15.0 1   323.0     0.50    24.60    99.00    99.00
 9  6 20 12    15.0 1   340.0     1.00    25.80    99.00    99.00
 9  6 20 13    15.0 1   346.0     2.10    26.80    99.00    99.00
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9	6	20	14	15.0	1	347.0	2.60	27.50	99.00	99.00
9	6	20	15	15.0	1	354.0	3.60	27.90	99.00	99.00
9	6	20	16	15.0	1	356.0	4.60	27.90	99.00	99.00
9	6	20	17	15.0	1	358.0	4.10	27.60	99.00	99.00
9	6	20	18	15.0	1	351.0	3.10	27.00	99.00	99.00
9	6	20	19	15.0	1	336.0	3.60	25.90	99.00	99.00
9	6	20	20	15.0	1	326.0	4.10	23.80	99.00	99.00
9	6	20	21	15.0	1	328.0	4.10	22.40	99.00	99.00
9	6	20	22	15.0	1	311.0	3.60	21.60	99.00	99.00
9	6	20	23	15.0	1	286.0	4.10	20.30	99.00	99.00
9	6	20	24	15.0	1	296.0	3.60	18.60	99.00	99.00
9	6	21	1	15.0	1	307.0	3.60	17.80	99.00	99.00
9	6	21	2	15.0	1	310.0	3.10	17.10	99.00	99.00
9	6	21	3	15.0	1	297.0	2.60	16.60	99.00	99.00
9	6	21	4	15.0	1	274.0	2.10	16.50	99.00	99.00
9	6	21	5	15.0	1	262.0	2.10	16.40	99.00	99.00
9	6	21	6	15.0	1	267.0	2.10	16.40	99.00	99.00
9	6	21	7	15.0	1	276.0	1.50	16.60	99.00	99.00
9	6	21	8	15.0	1	339.0	1.50	17.10	99.00	99.00
9	6	21	9	15.0	1	0.0	0.00	18.80	99.00	99.00
9	6	21	10	15.0	1	0.0	0.00	20.30	99.00	99.00
9	6	21	11	15.0	1	0.0	0.00	21.60	99.00	99.00
9	6	21	12	15.0	1	316.0	1.00	22.80	99.00	99.00
9	6	21	13	15.0	1	328.0	2.10	23.80	99.00	99.00
9	6	21	14	15.0	1	335.0	3.10	24.40	99.00	99.00
9	6	21	15	15.0	1	341.0	3.60	24.80	99.00	99.00
9	6	21	16	15.0	1	342.0	4.10	24.90	99.00	99.00
9	6	21	17	15.0	1	351.0	4.60	24.60	99.00	99.00
9	6	21	18	15.0	1	348.0	2.60	24.10	99.00	99.00
9	6	21	19	15.0	1	348.0	3.60	23.10	99.00	99.00
9	6	21	20	15.0	1	340.0	3.60	21.60	99.00	99.00
9	6	21	21	15.0	1	327.0	3.10	20.80	99.00	99.00
9	6	21	22	15.0	1	331.0	3.10	20.10	99.00	99.00
9	6	21	23	15.0	1	318.0	2.10	19.40	99.00	99.00
9	6	21	24	15.0	1	348.0	0.50	18.50	99.00	99.00
9	6	22	1	15.0	1	57.0	0.50	17.50	99.00	99.00
9	6	22	2	15.0	1	322.0	1.00	16.60	99.00	99.00
9	6	22	3	15.0	1	335.0	1.50	16.10	99.00	99.00
9	6	22	4	15.0	1	331.0	1.50	15.60	99.00	99.00
9	6	22	5	15.0	1	328.0	1.50	15.10	99.00	99.00
9	6	22	6	15.0	1	324.0	1.50	15.10	99.00	99.00
9	6	22	7	15.0	1	333.0	1.50	16.80	99.00	99.00
9	6	22	8	15.0	1	304.0	0.50	18.80	99.00	99.00
9	6	22	9	15.0	1	0.0	0.00	20.40	99.00	99.00
9	6	22	10	15.0	1	0.0	0.00	22.10	99.00	99.00
9	6	22	11	15.0	1	0.0	0.00	23.90	99.00	99.00
9	6	22	12	15.0	1	0.0	0.00	25.30	99.00	99.00
9	6	22	13	15.0	1	0.0	0.00	26.60	99.00	99.00
9	6	22	14	15.0	1	0.0	0.00	27.60	99.00	99.00
9	6	22	15	15.0	1	345.0	0.50	28.10	99.00	99.00
9	6	22	16	15.0	1	344.0	1.50	28.50	99.00	99.00
9	6	22	17	15.0	1	350.0	2.10	28.40	99.00	99.00
9	6	22	18	15.0	1	347.0	2.60	27.60	99.00	99.00
9	6	22	19	15.0	1	3.0	3.10	26.80	99.00	99.00
9	6	22	20	15.0	1	347.0	2.60	25.60	99.00	99.00
9	6	22	21	15.0	1	279.0	4.60	23.30	99.00	99.00
9	6	22	22	15.0	1	272.0	4.60	19.80	99.00	99.00
9	6	22	23	15.0	1	274.0	3.60	18.60	99.00	99.00
9	6	22	24	15.0	1	268.0	2.10	18.10	99.00	99.00
9	6	23	1	15.0	1	225.0	0.50	18.00	99.00	99.00
9	6	23	2	15.0	1	192.0	1.00	17.90	99.00	99.00
9	6	23	3	15.0	1	197.0	1.00	17.60	99.00	99.00
9	6	23	4	15.0	1	213.0	1.50	17.10	99.00	99.00
9	6	23	5	15.0	1	220.0	1.50	16.60	99.00	99.00
9	6	23	6	15.0	1	218.0	1.50	16.50	99.00	99.00
9	6	23	7	15.0	1	302.0	0.50	18.90	99.00	99.00
9	6	23	8	15.0	1	0.0	0.00	20.90	99.00	99.00
9	6	23	9	15.0	1	0.0	0.00	22.90	99.00	99.00
9	6	23	10	15.0	1	0.0	0.00	25.00	99.00	99.00
9	6	23	11	15.0	1	0.0	0.00	26.80	99.00	99.00
9	6	23	12	15.0	1	0.0	0.00	28.30	99.00	99.00
9	6	23	13	15.0	1	0.0	0.00	29.60	99.00	99.00
9	6	23	14	15.0	1	310.0	0.50	30.60	99.00	99.00
9	6	23	15	15.0	1	298.0	0.50	31.40	99.00	99.00
9	6	23	16	15.0	1	313.0	1.00	31.90	99.00	99.00
9	6	23	17	15.0	1	352.0	1.50	31.80	99.00	99.00
9	6	23	18	15.0	1	11.0	2.60	30.90	99.00	99.00

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 9   6 23 19     15.0 1   354.0     3.60     29.60     99.00     99.00
 9   6 23 20     15.0 1   303.0     5.10     26.50     99.00     99.00
 9   6 23 21     15.0 1   278.0     4.10     22.90     99.00     99.00
 9   6 23 22     15.0 1   281.0     4.10     21.10     99.00     99.00
 9   6 23 23     15.0 1   281.0     3.60     20.10     99.00     99.00
 9   6 23 24     15.0 1   298.0     3.10     19.50     99.00     99.00
 9   6 24  1     15.0 1   354.0     2.10     19.00     99.00     99.00
 9   6 24  2     15.0 1    18.0     3.10     18.40     99.00     99.00
 9   6 24  3     15.0 1    12.0     3.10     17.60     99.00     99.00
 9   6 24  4     15.0 1     1.0     2.60     17.00     99.00     99.00
 9   6 24  5     15.0 1   343.0     1.50     16.60     99.00     99.00
 9   6 24  6     15.0 1   317.0     1.00     16.80     99.00     99.00
 9   6 24  7     15.0 1   295.0     1.50     19.30     99.00     99.00
 9   6 24  8     15.0 1     0.0     0.00     21.40     99.00     99.00
 9   6 24  9     15.0 1     0.0     0.00     23.10     99.00     99.00
 9   6 24 10     15.0 1     0.0     0.00     25.10     99.00     99.00
 9   6 24 11     15.0 1     0.0     0.00     27.10     99.00     99.00
 9   6 24 12     15.0 1     0.0     0.00     28.80     99.00     99.00
 9   6 24 13     15.0 1   317.0     0.50     30.10     99.00     99.00
 9   6 24 14     15.0 1   354.0     1.00     31.30     99.00     99.00
 9   6 24 15     15.0 1     9.0     1.50     31.90     99.00     99.00
 9   6 24 16     15.0 1     6.0     2.60     32.60     99.00     99.00
 9   6 24 17     15.0 1    18.0     2.60     32.00     99.00     99.00
 9   6 24 18     15.0 1    19.0     3.10     31.10     99.00     99.00
 9   6 24 19     15.0 1   346.0     3.10     30.40     99.00     99.00
 9   6 24 20     15.0 1   289.0     5.70     27.30     99.00     99.00
 9   6 24 21     15.0 1   271.0     5.70     22.80     99.00     99.00
 9   6 24 22     15.0 1   268.0     4.60     21.10     99.00     99.00
 9   6 24 23     15.0 1   276.0     3.60     20.00     99.00     99.00
 9   6 24 24     15.0 1   343.0     1.50     19.50     99.00     99.00
 9   6 25  1     15.0 1    53.0     3.10     19.10     99.00     99.00
 9   6 25  2     15.0 1    48.0     3.10     18.60     99.00     99.00
 9   6 25  3     15.0 1    37.0     1.50     18.10     99.00     99.00
 9   6 25  4     15.0 1    19.0     1.50     17.60     99.00     99.00
 9   6 25  5     15.0 1     7.0     1.00     17.10     99.00     99.00
 9   6 25  6     15.0 1   326.0     1.00     17.30     99.00     99.00
 9   6 25  7     15.0 1   299.0     1.00     19.00     99.00     99.00
 9   6 25  8     15.0 1     0.0     0.00     20.90     99.00     99.00
 9   6 25  9     15.0 1     0.0     0.00     22.60     99.00     99.00
 9   6 25 10     15.0 1     0.0     0.00     24.60     99.00     99.00
 9   6 25 11     15.0 1     0.0     0.00     26.30     99.00     99.00
 9   6 25 12     15.0 1     0.0     0.00     28.10     99.00     99.00
 9   6 25 13     15.0 1     0.0     0.00     29.60     99.00     99.00
 9   6 25 14     15.0 1   309.0     0.50     30.60     99.00     99.00
 9   6 25 15     15.0 1   326.0     1.00     31.30     99.00     99.00
 9   6 25 16     15.0 1   346.0     2.10     31.60     99.00     99.00
 9   6 25 17     15.0 1     0.0     0.00     31.30     99.00     99.00
 9   6 25 18     15.0 1     0.0     0.00     30.80     99.00     99.00
 9   6 25 19     15.0 1   296.0     4.60     29.30     99.00     99.00
 9   6 25 20     15.0 1   269.0     5.10     24.30     99.00     99.00
 9   6 25 21     15.0 1   275.0     5.10     21.90     99.00     99.00
 9   6 25 22     15.0 1   272.0     4.60     20.40     99.00     99.00
 9   6 25 23     15.0 1   271.0     3.60     19.40     99.00     99.00
 9   6 25 24     15.0 1   302.0     1.00     18.90     99.00     99.00
 9   6 26  1     15.0 1     2.0     1.00     18.50     99.00     99.00
 9   6 26  2     15.0 1    15.0     1.00     18.00     99.00     99.00
 9   6 26  3     15.0 1     0.0     0.00     17.60     99.00     99.00
 9   6 26  4     15.0 1     5.0     0.50     17.30     99.00     99.00
 9   6 26  5     15.0 1     0.0     0.00     17.10     99.00     99.00
 9   6 26  6     15.0 1     0.0     0.00     17.30     99.00     99.00
 9   6 26  7     15.0 1     0.0     0.00     19.10     99.00     99.00
 9   6 26  8     15.0 1     0.0     0.00     21.10     99.00     99.00
 9   6 26  9     15.0 1     0.0     0.00     22.80     99.00     99.00
 9   6 26 10     15.0 1     0.0     0.00     24.60     99.00     99.00
 9   6 26 11     15.0 1     0.0     0.00     26.40     99.00     99.00
 9   6 26 12     15.0 1     0.0     0.00     28.10     99.00     99.00
 9   6 26 13     15.0 1     0.0     0.00     29.30     99.00     99.00
 9   6 26 14     15.0 1   336.0     0.50     30.10     99.00     99.00
 9   6 26 15     15.0 1     2.0     1.50     30.80     99.00     99.00
 9   6 26 16     15.0 1    10.0     2.60     31.00     99.00     99.00
 9   6 26 17     15.0 1     8.0     2.60     30.80     99.00     99.00
 9   6 26 18     15.0 1     4.0     2.10     30.40     99.00     99.00
 9   6 26 19     15.0 1   358.0     2.10     29.60     99.00     99.00
 9   6 26 20     15.0 1   347.0     1.50     28.40     99.00     99.00
 9   6 26 21     15.0 1   303.0     1.50     27.10     99.00     99.00
 9   6 26 22     15.0 1   280.0     3.60     25.10     99.00     99.00
 9   6 26 23     15.0 1   279.0     3.10     23.30     99.00     99.00
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 9  6 26 24    15.0 1   293.0     2.60    22.40    99.00    99.00
 9  6 27  1    15.0 1   301.0     1.50    21.60    99.00    99.00
 9  6 27  2    15.0 1   355.0     1.00    21.10    99.00    99.00
 9  6 27  3    15.0 1    16.0     0.50    20.60    99.00    99.00
 9  6 27  4    15.0 1     0.0     0.00    20.10    99.00    99.00
 9  6 27  5    15.0 1     0.0     0.00    19.60    99.00    99.00
 9  6 27  6    15.0 1     0.0     0.00    19.50    99.00    99.00
 9  6 27  7    15.0 1   300.0     1.00    22.10    99.00    99.00
 9  6 27  8    15.0 1   292.0     0.50    24.10    99.00    99.00
 9  6 27  9    15.0 1     0.0     0.00    26.60    99.00    99.00
 9  6 27 10    15.0 1     0.0     0.00    28.80    99.00    99.00
 9  6 27 11    15.0 1     0.0     0.00    30.80    99.00    99.00
 9  6 27 12    15.0 1     0.0     0.00    32.50    99.00    99.00
 9  6 27 13    15.0 1     0.0     0.00    34.00    99.00    99.00
 9  6 27 14    15.0 1    18.0     0.50    35.10    99.00    99.00
 9  6 27 15    15.0 1    12.0     1.00    35.80    99.00    99.00
 9  6 27 16    15.0 1     7.0     2.60    35.80    99.00    99.00
 9  6 27 17    15.0 1    17.0     3.10    34.60    99.00    99.00
 9  6 27 18    15.0 1    25.0     3.60    33.50    99.00    99.00
 9  6 27 19    15.0 1    16.0     4.10    32.30    99.00    99.00
 9  6 27 20    15.0 1   302.0     4.10    31.30    99.00    99.00
 9  6 27 21    15.0 1   283.0     5.10    27.10    99.00    99.00
 9  6 27 22    15.0 1   288.0     4.60    25.50    99.00    99.00
 9  6 27 23    15.0 1   303.0     3.60    24.60    99.00    99.00
 9  6 27 24    15.0 1   335.0     2.10    24.30    99.00    99.00
 9  6 28  1    15.0 1     0.0     0.00    23.90    99.00    99.00
 9  6 28  2    15.0 1    17.0     0.50    23.60    99.00    99.00
 9  6 28  3    15.0 1   186.0     0.50    23.10    99.00    99.00
 9  6 28  4    15.0 1   165.0     1.00    22.40    99.00    99.00
 9  6 28  5    15.0 1   162.0     0.50    21.80    99.00    99.00
 9  6 28  6    15.0 1   178.0     0.50    21.80    99.00    99.00
 9  6 28  7    15.0 1   247.0     1.00    24.10    99.00    99.00
 9  6 28  8    15.0 1   249.0     0.50    26.10    99.00    99.00
 9  6 28  9    15.0 1   234.0     0.50    28.50    99.00    99.00
 9  6 28 10    15.0 1     0.0     0.00    30.80    99.00    99.00
 9  6 28 11    15.0 1     0.0     0.00    32.60    99.00    99.00
 9  6 28 12    15.0 1     0.0     0.00    34.10    99.00    99.00
 9  6 28 13    15.0 1     0.0     0.00    35.60    99.00    99.00
 9  6 28 14    15.0 1     0.0     0.00    36.60    99.00    99.00
 9  6 28 15    15.0 1    35.0     1.00    37.40    99.00    99.00
 9  6 28 16    15.0 1    42.0     2.10    37.30    99.00    99.00
 9  6 28 17    15.0 1    36.0     2.60    36.50    99.00    99.00
 9  6 28 18    15.0 1   332.0     2.60    36.30    99.00    99.00
 9  6 28 19    15.0 1   305.0     5.10    33.40    99.00    99.00
 9  6 28 20    15.0 1   294.0     4.60    29.50    99.00    99.00
 9  6 28 21    15.0 1   276.0     4.10    26.90    99.00    99.00
 9  6 28 22    15.0 1   294.0     3.10    25.60    99.00    99.00
 9  6 28 23    15.0 1   342.0     1.50    25.10    99.00    99.00
 9  6 28 24    15.0 1    28.0     2.60    24.50    99.00    99.00
 9  6 29  1    15.0 1    46.0     4.10    23.60    99.00    99.00
 9  6 29  2    15.0 1    39.0     3.10    22.80    99.00    99.00
 9  6 29  3    15.0 1    32.0     2.60    22.30    99.00    99.00
 9  6 29  4    15.0 1    32.0     2.10    21.60    99.00    99.00
 9  6 29  5    15.0 1    19.0     1.00    21.10    99.00    99.00
 9  6 29  6    15.0 1    36.0     0.50    20.90    99.00    99.00
 9  6 29  7    15.0 1     0.0     0.00    22.90    99.00    99.00
 9  6 29  8    15.0 1     0.0     0.00    24.90    99.00    99.00
 9  6 29  9    15.0 1     0.0     0.00    27.10    99.00    99.00
 9  6 29 10    15.0 1     0.0     0.00    29.10    99.00    99.00
 9  6 29 11    15.0 1     0.0     0.00    30.90    99.00    99.00
 9  6 29 12    15.0 1     0.0     0.00    32.50    99.00    99.00
 9  6 29 13    15.0 1     5.0     0.50    34.00    99.00    99.00
 9  6 29 14    15.0 1   356.0     0.50    35.10    99.00    99.00
 9  6 29 15    15.0 1     0.0     0.00    36.10    99.00    99.00
 9  6 29 16    15.0 1   335.0     2.10    36.90    99.00    99.00
 9  6 29 17    15.0 1   293.0     3.60    35.10    99.00    99.00
 9  6 29 18    15.0 1   277.0     4.60    32.30    99.00    99.00
 9  6 29 19    15.0 1   285.0     4.60    29.30    99.00    99.00
 9  6 29 20    15.0 1   282.0     4.60    26.80    99.00    99.00
 9  6 29 21    15.0 1   289.0     3.60    24.80    99.00    99.00
 9  6 29 22    15.0 1   342.0     2.60    24.00    99.00    99.00
 9  6 29 23    15.0 1    34.0     3.10    23.50    99.00    99.00
 9  6 29 24    15.0 1    47.0     3.60    22.80    99.00    99.00
 9  6 30  1    15.0 1    28.0     2.10    22.10    99.00    99.00
 9  6 30  2    15.0 1   353.0     1.50    21.40    99.00    99.00
 9  6 30  3    15.0 1   360.0     0.50    20.60    99.00    99.00
 9  6 30  4    15.0 1    66.0     0.50    20.00    99.00    99.00
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 9  6 30  5    15.0 1    68.0     1.00    19.60    99.00    99.00
 9  6 30  6    15.0 1    57.0     1.00    19.30    99.00    99.00
 9  6 30  7    15.0 1   314.0     0.50    20.30    99.00    99.00
 9  6 30  8    15.0 1     0.0     0.00    22.40    99.00    99.00
 9  6 30  9    15.0 1     0.0     0.00    24.60    99.00    99.00
 9  6 30 10    15.0 1     0.0     0.00    26.60    99.00    99.00
 9  6 30 11    15.0 1     0.0     0.00    28.60    99.00    99.00
 9  6 30 12    15.0 1     0.0     0.00    30.50    99.00    99.00
 9  6 30 13    15.0 1   344.0     1.00    31.80    99.00    99.00
 9  6 30 14    15.0 1   349.0     1.50    32.80    99.00    99.00
 9  6 30 15    15.0 1   355.0     2.10    33.40    99.00    99.00
 9  6 30 16    15.0 1   342.0     2.60    33.60    99.00    99.00
 9  6 30 17    15.0 1   332.0     2.60    32.60    99.00    99.00
 9  6 30 18    15.0 1   312.0     4.10    31.10    99.00    99.00
 9  6 30 19    15.0 1   298.0     5.10    27.40    99.00    99.00
 9  6 30 20    15.0 1   301.0     4.60    24.40    99.00    99.00
 9  6 30 21    15.0 1   299.0     4.60    22.40    99.00    99.00
 9  6 30 22    15.0 1   302.0     4.10    21.00    99.00    99.00
 9  6 30 23    15.0 1   317.0     3.10    20.10    99.00    99.00
 9  6 30 24    15.0 1   357.0     3.10    19.60    99.00    99.00
 9  7  1  1    15.0 1    18.0     3.60    19.10    99.00    99.00
 9  7  1  2    15.0 1    35.0     3.10    18.60    99.00    99.00
 9  7  1  3    15.0 1    34.0     3.10    18.10    99.00    99.00
 9  7  1  4    15.0 1    28.0     2.60    17.80    99.00    99.00
 9  7  1  5    15.0 1    41.0     2.10    17.50    99.00    99.00
 9  7  1  6    15.0 1    30.0     1.50    17.90    99.00    99.00
 9  7  1  7    15.0 1   342.0     0.50    19.60    99.00    99.00
 9  7  1  8    15.0 1     0.0     0.00    21.50    99.00    99.00
 9  7  1  9    15.0 1     0.0     0.00    23.60    99.00    99.00
 9  7  1 10    15.0 1     0.0     0.00    25.60    99.00    99.00
 9  7  1 11    15.0 1     0.0     0.00    27.60    99.00    99.00
 9  7  1 12    15.0 1   341.0     0.50    29.60    99.00    99.00
 9  7  1 13    15.0 1   342.0     1.00    31.00    99.00    99.00
 9  7  1 14    15.0 1   350.0     2.10    32.00    99.00    99.00
 9  7  1 15    15.0 1     1.0     3.10    32.60    99.00    99.00
 9  7  1 16    15.0 1     0.0     0.00    32.90    99.00    99.00
 9  7  1 17    15.0 1     4.0     2.60    32.60    99.00    99.00
 9  7  1 18    15.0 1   323.0     2.60    32.10    99.00    99.00
 9  7  1 19    15.0 1   288.0     4.60    29.40    99.00    99.00
 9  7  1 20    15.0 1   285.0     5.10    25.50    99.00    99.00
 9  7  1 21    15.0 1   280.0     4.60    23.40    99.00    99.00
 9  7  1 22    15.0 1   295.0     4.10    22.10    99.00    99.00
 9  7  1 23    15.0 1   303.0     3.60    21.10    99.00    99.00
 9  7  1 24    15.0 1   324.0     3.60    20.50    99.00    99.00
 9  7  2  1    15.0 1   340.0     3.60    19.80    99.00    99.00
 9  7  2  2    15.0 1   341.0     3.10    19.40    99.00    99.00
 9  7  2  3    15.0 1   335.0     2.60    19.10    99.00    99.00
 9  7  2  4    15.0 1   331.0     2.10    19.10    99.00    99.00
 9  7  2  5    15.0 1   350.0     1.50    19.10    99.00    99.00
 9  7  2  6    15.0 1    22.0     1.00    19.10    99.00    99.00
 9  7  2  7    15.0 1   351.0     0.50    21.00    99.00    99.00
 9  7  2  8    15.0 1     0.0     0.00    22.90    99.00    99.00
 9  7  2  9    15.0 1     0.0     0.00    24.60    99.00    99.00
 9  7  2 10    15.0 1     0.0     0.00    26.50    99.00    99.00
 9  7  2 11    15.0 1     0.0     0.00    28.60    99.00    99.00
 9  7  2 12    15.0 1     0.0     0.00    30.30    99.00    99.00
 9  7  2 13    15.0 1   314.0     0.50    31.60    99.00    99.00
 9  7  2 14    15.0 1   342.0     1.00    32.80    99.00    99.00
 9  7  2 15    15.0 1   352.0     2.10    33.40    99.00    99.00
 9  7  2 16    15.0 1     3.0     3.10    33.60    99.00    99.00
 9  7  2 17    15.0 1   348.0     2.60    33.30    99.00    99.00
 9  7  2 18    15.0 1   299.0     4.10    31.80    99.00    99.00
 9  7  2 19    15.0 1   285.0     5.10    27.50    99.00    99.00
 9  7  2 20    15.0 1   277.0     5.10    24.10    99.00    99.00
 9  7  2 21    15.0 1   283.0     5.10    22.00    99.00    99.00
 9  7  2 22    15.0 1   289.0     4.60    20.50    99.00    99.00
 9  7  2 23    15.0 1   316.0     2.60    19.80    99.00    99.00
 9  7  2 24    15.0 1     0.0     0.00    19.50    99.00    99.00
 9  7  3  1    15.0 1     0.0     0.00    18.60    99.00    99.00
 9  7  3  2    15.0 1   354.0     3.10    18.00    99.00    99.00
 9  7  3  3    15.0 1   346.0     2.60    17.40    99.00    99.00
 9  7  3  4    15.0 1   357.0     2.60    17.00    99.00    99.00
 9  7  3  5    15.0 1     1.0     2.10    16.80    99.00    99.00
 9  7  3  6    15.0 1   338.0     2.10    17.10    99.00    99.00
 9  7  3  7    15.0 1   316.0     1.50    19.10    99.00    99.00
 9  7  3  8    15.0 1     0.0     0.00    21.00    99.00    99.00
 9  7  3  9    15.0 1     0.0     0.00    23.60    99.00    99.00
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```
 9  7  3 10    15.0 1     0.0     0.00    25.60    99.00    99.00
 9  7  3 11    15.0 1     0.0     0.00    27.60    99.00    99.00
 9  7  3 12    15.0 1     0.0     0.00    29.50    99.00    99.00
 9  7  3 13    15.0 1   319.0     0.50    30.90    99.00    99.00
 9  7  3 14    15.0 1   336.0     1.50    32.00    99.00    99.00
 9  7  3 15    15.0 1   357.0     2.10    32.60    99.00    99.00
 9  7  3 16    15.0 1     0.0     0.00    32.80    99.00    99.00
 9  7  3 17    15.0 1    12.0     2.60    32.30    99.00    99.00
 9  7  3 18    15.0 1   357.0     2.60    32.00    99.00    99.00
 9  7  3 19    15.0 1   297.0     4.60    30.40    99.00    99.00
 9  7  3 20    15.0 1   279.0     5.10    25.00    99.00    99.00
 9  7  3 21    15.0 1   266.0     5.10    22.30    99.00    99.00
 9  7  3 22    15.0 1   285.0     4.10    20.80    99.00    99.00
 9  7  3 23    15.0 1   295.0     3.10    19.90    99.00    99.00
 9  7  3 24    15.0 1   331.0     2.60    19.40    99.00    99.00
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 9  7  4  3    15.0 1   350.0     2.60    17.80    99.00    99.00
 9  7  4  4    15.0 1   351.0     2.60    17.60    99.00    99.00
 9  7  4  5    15.0 1   346.0     2.60    17.30    99.00    99.00
 9  7  4  6    15.0 1   355.0     1.50    17.30    99.00    99.00
 9  7  4  7    15.0 1   331.0     1.50    19.50    99.00    99.00
 9  7  4  8    15.0 1     0.0     0.00    21.30    99.00    99.00
 9  7  4  9    15.0 1     0.0     0.00    23.30    99.00    99.00
 9  7  4 10    15.0 1     0.0     0.00    25.10    99.00    99.00
 9  7  4 11    15.0 1     0.0     0.00    27.30    99.00    99.00
 9  7  4 12    15.0 1     0.0     0.00    29.00    99.00    99.00
 9  7  4 13    15.0 1     0.0     0.00    30.40    99.00    99.00
 9  7  4 14    15.0 1   329.0     0.50    31.50    99.00    99.00
 9  7  4 15    15.0 1   353.0     1.50    32.10    99.00    99.00
 9  7  4 16    15.0 1     5.0     2.10    32.30    99.00    99.00
 9  7  4 17    15.0 1   348.0     2.10    32.00    99.00    99.00
 9  7  4 18    15.0 1   314.0     3.10    31.10    99.00    99.00
 9  7  4 19    15.0 1   280.0     5.10    27.40    99.00    99.00
 9  7  4 20    15.0 1   267.0     5.10    23.10    99.00    99.00
 9  7  4 21    15.0 1   285.0     5.10    20.90    99.00    99.00
 9  7  4 22    15.0 1   284.0     4.10    19.40    99.00    99.00
 9  7  4 23    15.0 1   297.0     2.60    18.60    99.00    99.00
 9  7  4 24    15.0 1   351.0     2.60    18.10    99.00    99.00
 9  7  5  1    15.0 1     0.0     0.00    17.30    99.00    99.00
 9  7  5  2    15.0 1   343.0     2.60    16.60    99.00    99.00
 9  7  5  3    15.0 1   334.0     2.60    16.30    99.00    99.00
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 9  7  5  5    15.0 1   337.0     1.50    15.90    99.00    99.00
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 9  7  5  9    15.0 1     0.0     0.00    21.50    99.00    99.00
 9  7  5 10    15.0 1     0.0     0.00    23.40    99.00    99.00
 9  7  5 11    15.0 1     0.0     0.00    25.10    99.00    99.00
 9  7  5 12    15.0 1     0.0     0.00    26.60    99.00    99.00
 9  7  5 13    15.0 1   338.0     0.50    28.10    99.00    99.00
 9  7  5 14    15.0 1   342.0     1.50    29.30    99.00    99.00
 9  7  5 15    15.0 1   355.0     2.10    30.10    99.00    99.00
 9  7  5 16    15.0 1     5.0     2.60    30.50    99.00    99.00
 9  7  5 17    15.0 1     4.0     2.60    30.50    99.00    99.00
 9  7  5 18    15.0 1   327.0     2.60    29.90    99.00    99.00
 9  7  5 19    15.0 1   291.0     4.60    27.50    99.00    99.00
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 9  7  5 21    15.0 1   281.0     5.10    20.60    99.00    99.00
 9  7  5 22    15.0 1   286.0     4.10    19.50    99.00    99.00
 9  7  5 23    15.0 1   296.0     3.10    18.60    99.00    99.00
 9  7  5 24    15.0 1   324.0     3.10    18.10    99.00    99.00
 9  7  6  1    15.0 1   329.0     2.60    17.90    99.00    99.00
 9  7  6  2    15.0 1   329.0     2.10    17.60    99.00    99.00
 9  7  6  3    15.0 1   344.0     1.50    17.10    99.00    99.00
 9  7  6  4    15.0 1     1.0     1.00    16.50    99.00    99.00
 9  7  6  5    15.0 1     9.0     0.50    15.90    99.00    99.00
 9  7  6  6    15.0 1    22.0     1.00    15.60    99.00    99.00
 9  7  6  7    15.0 1     0.0     0.00    16.50    99.00    99.00
 9  7  6  8    15.0 1     0.0     0.00    17.80    99.00    99.00
 9  7  6  9    15.0 1     0.0     0.00    19.50    99.00    99.00
 9  7  6 10    15.0 1     0.0     0.00    21.30    99.00    99.00
 9  7  6 11    15.0 1   315.0     0.50    23.10    99.00    99.00
 9  7  6 12    15.0 1   317.0     0.50    24.80    99.00    99.00
 9  7  6 13    15.0 1   328.0     1.00    26.00    99.00    99.00
 9  7  6 14    15.0 1   341.0     1.50    26.90    99.00    99.00
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9	7	6	15	15.0	1	348.0	2.10	27.50	99.00	99.00
9	7	6	16	15.0	1	4.0	2.60	27.80	99.00	99.00
9	7	6	17	15.0	1	0.0	0.00	27.60	99.00	99.00
9	7	6	18	15.0	1	12.0	2.60	27.10	99.00	99.00
9	7	6	19	15.0	1	0.0	0.00	26.40	99.00	99.00
9	7	6	20	15.0	1	360.0	4.10	24.80	99.00	99.00
9	7	6	21	15.0	1	352.0	4.10	22.60	99.00	99.00
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9	7	6	23	15.0	1	338.0	3.60	20.50	99.00	99.00
9	7	6	24	15.0	1	335.0	3.60	19.60	99.00	99.00
9	7	7	1	15.0	1	344.0	3.10	18.60	99.00	99.00
9	7	7	2	15.0	1	5.0	2.60	17.90	99.00	99.00
9	7	7	3	15.0	1	9.0	2.60	17.10	99.00	99.00
9	7	7	4	15.0	1	7.0	2.10	16.40	99.00	99.00
9	7	7	5	15.0	1	24.0	2.10	15.80	99.00	99.00
9	7	7	6	15.0	1	22.0	2.10	15.60	99.00	99.00
9	7	7	7	15.0	1	7.0	1.00	16.80	99.00	99.00
9	7	7	8	15.0	1	0.0	0.00	18.90	99.00	99.00
9	7	7	9	15.0	1	0.0	0.00	20.80	99.00	99.00
9	7	7	10	15.0	1	0.0	0.00	22.50	99.00	99.00
9	7	7	11	15.0	1	0.0	0.00	24.10	99.00	99.00
9	7	7	12	15.0	1	0.0	0.00	25.90	99.00	99.00
9	7	7	13	15.0	1	329.0	0.50	27.10	99.00	99.00
9	7	7	14	15.0	1	347.0	1.00	28.10	99.00	99.00
9	7	7	15	15.0	1	0.0	0.00	28.60	99.00	99.00
9	7	7	16	15.0	1	0.0	0.00	28.90	99.00	99.00
9	7	7	17	15.0	1	10.0	3.10	28.60	99.00	99.00
9	7	7	18	15.0	1	15.0	2.60	28.00	99.00	99.00
9	7	7	19	15.0	1	4.0	3.60	27.10	99.00	99.00
9	7	7	20	15.0	1	346.0	3.60	25.90	99.00	99.00
9	7	7	21	15.0	1	329.0	4.10	24.60	99.00	99.00
9	7	7	22	15.0	1	299.0	4.10	22.60	99.00	99.00
9	7	7	23	15.0	1	278.0	3.60	21.10	99.00	99.00
9	7	7	24	15.0	1	286.0	3.60	20.40	99.00	99.00
9	7	8	1	15.0	1	300.0	3.60	19.80	99.00	99.00
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9	7	8	3	15.0	1	346.0	3.10	18.00	99.00	99.00
9	7	8	4	15.0	1	356.0	2.60	17.30	99.00	99.00
9	7	8	5	15.0	1	358.0	2.10	16.80	99.00	99.00
9	7	8	6	15.0	1	355.0	1.50	16.60	99.00	99.00
9	7	8	7	15.0	1	350.0	2.10	18.00	99.00	99.00
9	7	8	8	15.0	1	334.0	1.00	20.00	99.00	99.00
9	7	8	9	15.0	1	0.0	0.00	21.60	99.00	99.00
9	7	8	10	15.0	1	0.0	0.00	23.30	99.00	99.00
9	7	8	11	15.0	1	0.0	0.00	25.00	99.00	99.00
9	7	8	12	15.0	1	0.0	0.00	26.10	99.00	99.00
9	7	8	13	15.0	1	0.0	0.00	27.40	99.00	99.00
9	7	8	14	15.0	1	307.0	0.50	28.40	99.00	99.00
9	7	8	15	15.0	1	345.0	1.50	29.10	99.00	99.00
9	7	8	16	15.0	1	3.0	2.60	29.30	99.00	99.00
9	7	8	17	15.0	1	0.0	0.00	29.00	99.00	99.00
9	7	8	18	15.0	1	6.0	3.10	28.10	99.00	99.00
9	7	8	19	15.0	1	0.0	0.00	27.00	99.00	99.00
9	7	8	20	15.0	1	337.0	3.60	25.60	99.00	99.00
9	7	8	21	15.0	1	321.0	3.60	24.40	99.00	99.00
9	7	8	22	15.0	1	298.0	3.60	23.30	99.00	99.00
9	7	8	23	15.0	1	278.0	3.60	21.80	99.00	99.00
9	7	8	24	15.0	1	313.0	3.60	20.80	99.00	99.00
9	7	9	1	15.0	1	333.0	3.60	19.80	99.00	99.00
9	7	9	2	15.0	1	352.0	3.60	18.60	99.00	99.00
9	7	9	3	15.0	1	0.0	0.00	17.80	99.00	99.00
9	7	9	4	15.0	1	0.0	0.00	17.10	99.00	99.00
9	7	9	5	15.0	1	0.0	0.00	16.60	99.00	99.00
9	7	9	6	15.0	1	7.0	1.50	16.50	99.00	99.00
9	7	9	7	15.0	1	1.0	1.50	17.60	99.00	99.00
9	7	9	8	15.0	1	0.0	0.00	19.40	99.00	99.00
9	7	9	9	15.0	1	0.0	0.00	21.10	99.00	99.00
9	7	9	10	15.0	1	0.0	0.00	22.60	99.00	99.00
9	7	9	11	15.0	1	0.0	0.00	24.40	99.00	99.00
9	7	9	12	15.0	1	0.0	0.00	26.10	99.00	99.00
9	7	9	13	15.0	1	0.0	0.00	27.40	99.00	99.00
9	7	9	14	15.0	1	0.0	0.00	28.40	99.00	99.00
9	7	9	15	15.0	1	358.0	0.50	29.10	99.00	99.00
9	7	9	16	15.0	1	6.0	1.50	29.60	99.00	99.00
9	7	9	17	15.0	1	14.0	2.60	29.40	99.00	99.00
9	7	9	18	15.0	1	16.0	2.60	28.60	99.00	99.00
9	7	9	19	15.0	1	16.0	3.10	27.90	99.00	99.00

9	7	9	20	15.0	1	25.0	2.60	26.60	99.00	99.00
9	7	9	21	15.0	1	351.0	1.00	25.60	99.00	99.00
9	7	9	22	15.0	1	274.0	2.60	24.10	99.00	99.00
9	7	9	23	15.0	1	270.0	3.60	22.30	99.00	99.00
9	7	9	24	15.0	1	284.0	3.10	21.10	99.00	99.00
9	7	10	1	15.0	1	305.0	3.60	20.50	99.00	99.00
9	7	10	2	15.0	1	321.0	3.60	19.60	99.00	99.00
9	7	10	3	15.0	1	342.0	3.60	18.80	99.00	99.00
9	7	10	4	15.0	1	354.0	3.10	18.10	99.00	99.00
9	7	10	5	15.0	1	351.0	2.60	17.50	99.00	99.00
9	7	10	6	15.0	1	349.0	2.60	17.50	99.00	99.00
9	7	10	7	15.0	1	5.0	2.60	18.50	99.00	99.00
9	7	10	8	15.0	1	350.0	1.00	20.60	99.00	99.00
9	7	10	9	15.0	1	0.0	0.00	22.40	99.00	99.00
9	7	10	10	15.0	1	0.0	0.00	24.10	99.00	99.00
9	7	10	11	15.0	1	0.0	0.00	25.60	99.00	99.00
9	7	10	12	15.0	1	0.0	0.00	27.30	99.00	99.00
9	7	10	13	15.0	1	0.0	0.00	28.50	99.00	99.00
9	7	10	14	15.0	1	355.0	0.50	29.40	99.00	99.00
9	7	10	15	15.0	1	356.0	1.00	30.00	99.00	99.00
9	7	10	16	15.0	1	10.0	1.50	30.30	99.00	99.00
9	7	10	17	15.0	1	12.0	2.60	30.30	99.00	99.00
9	7	10	18	15.0	1	9.0	2.60	29.60	99.00	99.00
9	7	10	19	15.0	1	12.0	3.60	28.60	99.00	99.00
9	7	10	20	15.0	1	0.0	0.00	27.40	99.00	99.00
9	7	10	21	15.0	1	334.0	3.10	26.40	99.00	99.00
9	7	10	22	15.0	1	289.0	4.10	24.10	99.00	99.00
9	7	10	23	15.0	1	291.0	3.60	22.30	99.00	99.00
9	7	10	24	15.0	1	304.0	3.60	21.60	99.00	99.00
9	7	11	1	15.0	1	316.0	3.10	21.10	99.00	99.00
9	7	11	2	15.0	1	352.0	3.10	20.30	99.00	99.00
9	7	11	3	15.0	1	0.0	0.00	19.50	99.00	99.00
9	7	11	4	15.0	1	14.0	2.10	18.90	99.00	99.00
9	7	11	5	15.0	1	21.0	2.10	18.40	99.00	99.00
9	7	11	6	15.0	1	17.0	1.50	18.30	99.00	99.00
9	7	11	7	15.0	1	0.0	0.00	19.30	99.00	99.00
9	7	11	8	15.0	1	341.0	0.50	21.10	99.00	99.00
9	7	11	9	15.0	1	0.0	0.00	23.30	99.00	99.00
9	7	11	10	15.0	1	0.0	0.00	25.10	99.00	99.00
9	7	11	11	15.0	1	295.0	0.50	27.00	99.00	99.00
9	7	11	12	15.0	1	0.0	0.00	28.60	99.00	99.00
9	7	11	13	15.0	1	338.0	0.50	29.90	99.00	99.00
9	7	11	14	15.0	1	344.0	1.50	30.80	99.00	99.00
9	7	11	15	15.0	1	354.0	2.60	31.10	99.00	99.00
9	7	11	16	15.0	1	2.0	3.10	31.30	99.00	99.00
9	7	11	17	15.0	1	0.0	0.00	30.90	99.00	99.00
9	7	11	18	15.0	1	359.0	3.10	30.40	99.00	99.00
9	7	11	19	15.0	1	354.0	3.60	29.40	99.00	99.00
9	7	11	20	15.0	1	338.0	4.10	27.30	99.00	99.00
9	7	11	21	15.0	1	330.0	4.10	24.60	99.00	99.00
9	7	11	22	15.0	1	322.0	3.60	23.00	99.00	99.00
9	7	11	23	15.0	1	323.0	3.10	22.00	99.00	99.00
9	7	11	24	15.0	1	326.0	3.10	21.10	99.00	99.00
9	7	12	1	15.0	1	353.0	2.60	20.40	99.00	99.00
9	7	12	2	15.0	1	13.0	2.10	19.80	99.00	99.00
9	7	12	3	15.0	1	0.0	0.00	19.10	99.00	99.00
9	7	12	4	15.0	1	354.0	1.00	18.60	99.00	99.00
9	7	12	5	15.0	1	357.0	0.50	18.30	99.00	99.00
9	7	12	6	15.0	1	360.0	1.50	18.10	99.00	99.00
9	7	12	7	15.0	1	360.0	1.50	19.10	99.00	99.00
9	7	12	8	15.0	1	334.0	0.50	20.90	99.00	99.00
9	7	12	9	15.0	1	0.0	0.00	22.50	99.00	99.00
9	7	12	10	15.0	1	0.0	0.00	24.40	99.00	99.00
9	7	12	11	15.0	1	319.0	0.50	26.10	99.00	99.00
9	7	12	12	15.0	1	337.0	0.50	27.60	99.00	99.00
9	7	12	13	15.0	1	336.0	1.50	29.00	99.00	99.00
9	7	12	14	15.0	1	347.0	2.10	29.90	99.00	99.00
9	7	12	15	15.0	1	1.0	2.60	30.40	99.00	99.00
9	7	12	16	15.0	1	0.0	0.00	30.50	99.00	99.00
9	7	12	17	15.0	1	0.0	0.00	30.10	99.00	99.00
9	7	12	18	15.0	1	3.0	3.10	29.40	99.00	99.00
9	7	12	19	15.0	1	340.0	4.10	27.30	99.00	99.00
9	7	12	20	15.0	1	344.0	4.60	24.60	99.00	99.00
9	7	12	21	15.0	1	328.0	3.60	23.10	99.00	99.00
9	7	12	22	15.0	1	323.0	3.10	22.50	99.00	99.00
9	7	12	23	15.0	1	322.0	2.60	22.10	99.00	99.00
9	7	12	24	15.0	1	325.0	1.50	21.80	99.00	99.00

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 9  7 13  1     15.0 1    349.0      1.50     21.30     99.00     99.00
 9  7 13  2     15.0 1     19.0      1.50     20.80     99.00     99.00
 9  7 13  3     15.0 1     18.0      1.50     20.10     99.00     99.00
 9  7 13  4     15.0 1     16.0      1.50     19.30     99.00     99.00
 9  7 13  5     15.0 1     19.0      1.00     18.60     99.00     99.00
 9  7 13  6     15.0 1      8.0      1.00     18.30     99.00     99.00
 9  7 13  7     15.0 1      0.0      0.00     19.50     99.00     99.00
 9  7 13  8     15.0 1      0.0      0.00     21.50     99.00     99.00
 9  7 13  9     15.0 1      0.0      0.00     23.50     99.00     99.00
 9  7 13 10     15.0 1      0.0      0.00     25.40     99.00     99.00
 9  7 13 11     15.0 1      0.0      0.00     27.40     99.00     99.00
 9  7 13 12     15.0 1      0.0      0.00     29.00     99.00     99.00
 9  7 13 13     15.0 1      0.0      0.00     30.30     99.00     99.00
 9  7 13 14     15.0 1    352.0      0.50     31.40     99.00     99.00
 9  7 13 15     15.0 1    357.0      1.50     32.00     99.00     99.00
 9  7 13 16     15.0 1      0.0      0.00     32.10     99.00     99.00
 9  7 13 17     15.0 1     14.0      2.60     31.90     99.00     99.00
 9  7 13 18     15.0 1      0.0      0.00     31.40     99.00     99.00
 9  7 13 19     15.0 1    352.0      2.60     30.50     99.00     99.00
 9  7 13 20     15.0 1    330.0      2.10     29.40     99.00     99.00
 9  7 13 21     15.0 1    278.0      5.10     27.10     99.00     99.00
 9  7 13 22     15.0 1    269.0      4.60     23.30     99.00     99.00
 9  7 13 23     15.0 1    277.0      3.60     22.10     99.00     99.00
 9  7 13 24     15.0 1    298.0      3.10     21.60     99.00     99.00
 9  7 14  1     15.0 1    318.0      2.10     21.10     99.00     99.00
 9  7 14  2     15.0 1    343.0      1.00     20.80     99.00     99.00
 9  7 14  3     15.0 1      0.0      0.00     20.50     99.00     99.00
 9  7 14  4     15.0 1    351.0      0.50     20.10     99.00     99.00
 9  7 14  5     15.0 1    278.0      0.50     19.90     99.00     99.00
 9  7 14  6     15.0 1    263.0      1.00     19.90     99.00     99.00
 9  7 14  7     15.0 1    292.0      2.10     22.10     99.00     99.00
 9  7 14  8     15.0 1    295.0      1.00     24.00     99.00     99.00
 9  7 14  9     15.0 1    292.0      0.50     25.60     99.00     99.00
 9  7 14 10     15.0 1      0.0      0.00     27.50     99.00     99.00
 9  7 14 11     15.0 1      0.0      0.00     29.50     99.00     99.00
 9  7 14 12     15.0 1      0.0      0.00     31.10     99.00     99.00
 9  7 14 13     15.0 1    278.0      0.50     32.40     99.00     99.00
 9  7 14 14     15.0 1    310.0      0.50     33.40     99.00     99.00
 9  7 14 15     15.0 1    324.0      0.50     34.10     99.00     99.00
 9  7 14 16     15.0 1    316.0      0.50     34.90     99.00     99.00
 9  7 14 17     15.0 1    338.0      1.00     34.90     99.00     99.00
 9  7 14 18     15.0 1    327.0      1.50     34.60     99.00     99.00
 9  7 14 19     15.0 1    305.0      4.60     32.30     99.00     99.00
 9  7 14 20     15.0 1    291.0      4.10     27.60     99.00     99.00
 9  7 14 21     15.0 1    305.0      3.60     25.60     99.00     99.00
 9  7 14 22     15.0 1    306.0      3.10     24.10     99.00     99.00
 9  7 14 23     15.0 1    326.0      3.10     23.30     99.00     99.00
 9  7 14 24     15.0 1    350.0      3.60     22.50     99.00     99.00
 9  7 15  1     15.0 1     10.0      3.60     21.80     99.00     99.00
 9  7 15  2     15.0 1     24.0      3.60     21.10     99.00     99.00
 9  7 15  3     15.0 1     28.0      3.60     20.50     99.00     99.00
 9  7 15  4     15.0 1     18.0      3.10     20.00     99.00     99.00
 9  7 15  5     15.0 1     24.0      2.10     19.80     99.00     99.00
 9  7 15  6     15.0 1     18.0      1.50     19.90     99.00     99.00
 9  7 15  7     15.0 1    334.0      1.00     22.00     99.00     99.00
 9  7 15  8     15.0 1      0.0      0.00     23.90     99.00     99.00
 9  7 15  9     15.0 1      0.0      0.00     26.10     99.00     99.00
 9  7 15 10     15.0 1      0.0      0.00     28.10     99.00     99.00
 9  7 15 11     15.0 1      0.0      0.00     30.00     99.00     99.00
 9  7 15 12     15.0 1      0.0      0.00     31.90     99.00     99.00
 9  7 15 13     15.0 1      0.0      0.00     33.40     99.00     99.00
 9  7 15 14     15.0 1    323.0      0.50     34.60     99.00     99.00
 9  7 15 15     15.0 1    338.0      1.00     35.40     99.00     99.00
 9  7 15 16     15.0 1    348.0      1.50     35.80     99.00     99.00
 9  7 15 17     15.0 1    358.0      2.10     35.40     99.00     99.00
 9  7 15 18     15.0 1    331.0      3.10     34.90     99.00     99.00
 9  7 15 19     15.0 1    302.0      4.60     32.10     99.00     99.00
 9  7 15 20     15.0 1    294.0      4.10     28.30     99.00     99.00
 9  7 15 21     15.0 1    289.0      3.60     25.90     99.00     99.00
 9  7 15 22     15.0 1    293.0      3.60     24.60     99.00     99.00
 9  7 15 23     15.0 1    322.0      3.10     24.10     99.00     99.00
 9  7 15 24     15.0 1      0.0      0.00     23.50     99.00     99.00
 9  7 16  1     15.0 1      6.0      4.10     22.60     99.00     99.00
 9  7 16  2     15.0 1     10.0      4.10     21.60     99.00     99.00
 9  7 16  3     15.0 1     10.0      3.60     20.80     99.00     99.00
 9  7 16  4     15.0 1      6.0      3.10     20.60     99.00     99.00
 9  7 16  5     15.0 1     24.0      2.10     20.60     99.00     99.00
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9	7	16	6	15.0	1	20.0	1.00	20.60	99.00	99.00
9	7	16	7	15.0	1	345.0	1.00	22.60	99.00	99.00
9	7	16	8	15.0	1	0.0	0.00	24.40	99.00	99.00
9	7	16	9	15.0	1	0.0	0.00	26.60	99.00	99.00
9	7	16	10	15.0	1	0.0	0.00	28.30	99.00	99.00
9	7	16	11	15.0	1	0.0	0.00	30.10	99.00	99.00
9	7	16	12	15.0	1	0.0	0.00	31.60	99.00	99.00
9	7	16	13	15.0	1	339.0	0.50	33.00	99.00	99.00
9	7	16	14	15.0	1	344.0	1.00	34.10	99.00	99.00
9	7	16	15	15.0	1	354.0	1.50	34.60	99.00	99.00
9	7	16	16	15.0	1	352.0	2.60	34.90	99.00	99.00
9	7	16	17	15.0	1	3.0	2.60	34.40	99.00	99.00
9	7	16	18	15.0	1	1.0	2.60	33.90	99.00	99.00
9	7	16	19	15.0	1	358.0	2.60	32.90	99.00	99.00
9	7	16	20	15.0	1	326.0	2.10	31.80	99.00	99.00
9	7	16	21	15.0	1	286.0	5.10	29.40	99.00	99.00
9	7	16	22	15.0	1	279.0	4.60	25.80	99.00	99.00
9	7	16	23	15.0	1	295.0	4.10	24.50	99.00	99.00
9	7	16	24	15.0	1	297.0	3.10	23.50	99.00	99.00
9	7	17	1	15.0	1	306.0	2.60	22.80	99.00	99.00
9	7	17	2	15.0	1	328.0	1.50	22.50	99.00	99.00
9	7	17	3	15.0	1	330.0	1.00	22.30	99.00	99.00
9	7	17	4	15.0	1	0.0	0.00	22.10	99.00	99.00
9	7	17	5	15.0	1	0.0	0.00	22.10	99.00	99.00
9	7	17	6	15.0	1	0.0	0.00	22.00	99.00	99.00
9	7	17	7	15.0	1	25.0	0.50	23.50	99.00	99.00
9	7	17	8	15.0	1	0.0	0.00	25.30	99.00	99.00
9	7	17	9	15.0	1	0.0	0.00	26.90	99.00	99.00
9	7	17	10	15.0	1	0.0	0.00	28.80	99.00	99.00
9	7	17	11	15.0	1	0.0	0.00	30.60	99.00	99.00
9	7	17	12	15.0	1	0.0	0.00	32.10	99.00	99.00
9	7	17	13	15.0	1	0.0	0.00	33.50	99.00	99.00
9	7	17	14	15.0	1	0.0	0.00	34.40	99.00	99.00
9	7	17	15	15.0	1	346.0	1.00	34.90	99.00	99.00
9	7	17	16	15.0	1	0.0	0.00	35.10	99.00	99.00
9	7	17	17	15.0	1	6.0	2.10	34.80	99.00	99.00
9	7	17	18	15.0	1	6.0	2.10	34.50	99.00	99.00
9	7	17	19	15.0	1	355.0	1.50	33.50	99.00	99.00
9	7	17	20	15.0	1	292.0	1.50	32.40	99.00	99.00
9	7	17	21	15.0	1	282.0	5.10	29.50	99.00	99.00
9	7	17	22	15.0	1	280.0	4.60	26.30	99.00	99.00
9	7	17	23	15.0	1	288.0	3.60	25.10	99.00	99.00
9	7	17	24	15.0	1	293.0	3.10	24.60	99.00	99.00
9	7	18	1	15.0	1	303.0	2.10	24.40	99.00	99.00
9	7	18	2	15.0	1	12.0	0.50	24.10	99.00	99.00
9	7	18	3	15.0	1	62.0	0.50	24.00	99.00	99.00
9	7	18	4	15.0	1	0.0	0.00	23.60	99.00	99.00
9	7	18	5	15.0	1	0.0	0.00	23.10	99.00	99.00
9	7	18	6	15.0	1	0.0	0.00	22.90	99.00	99.00
9	7	18	7	15.0	1	0.0	0.00	24.60	99.00	99.00
9	7	18	8	15.0	1	0.0	0.00	26.50	99.00	99.00
9	7	18	9	15.0	1	0.0	0.00	28.60	99.00	99.00
9	7	18	10	15.0	1	0.0	0.00	30.40	99.00	99.00
9	7	18	11	15.0	1	0.0	0.00	32.10	99.00	99.00
9	7	18	12	15.0	1	0.0	0.00	33.60	99.00	99.00
9	7	18	13	15.0	1	81.0	0.50	34.80	99.00	99.00
9	7	18	14	15.0	1	85.0	0.50	35.90	99.00	99.00
9	7	18	15	15.0	1	25.0	0.50	36.60	99.00	99.00
9	7	18	16	15.0	1	13.0	1.00	36.90	99.00	99.00
9	7	18	17	15.0	1	32.0	1.50	36.60	99.00	99.00
9	7	18	18	15.0	1	24.0	2.60	36.30	99.00	99.00
9	7	18	19	15.0	1	344.0	3.60	35.30	99.00	99.00
9	7	18	20	15.0	1	294.0	5.10	32.10	99.00	99.00
9	7	18	21	15.0	1	271.0	4.60	28.10	99.00	99.00
9	7	18	22	15.0	1	275.0	4.10	26.80	99.00	99.00
9	7	18	23	15.0	1	277.0	3.60	25.90	99.00	99.00
9	7	18	24	15.0	1	327.0	1.50	25.60	99.00	99.00
9	7	19	1	15.0	1	34.0	1.50	25.40	99.00	99.00
9	7	19	2	15.0	1	25.0	1.00	25.10	99.00	99.00
9	7	19	3	15.0	1	0.0	0.00	24.90	99.00	99.00
9	7	19	4	15.0	1	0.0	0.00	24.50	99.00	99.00
9	7	19	5	15.0	1	305.0	0.50	24.10	99.00	99.00
9	7	19	6	15.0	1	313.0	0.50	24.00	99.00	99.00
9	7	19	7	15.0	1	342.0	1.50	25.60	99.00	99.00
9	7	19	8	15.0	1	333.0	0.50	27.30	99.00	99.00
9	7	19	9	15.0	1	0.0	0.00	29.50	99.00	99.00
9	7	19	10	15.0	1	0.0	0.00	31.30	99.00	99.00

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 9   7 19 11     15.0 1      0.0      0.00     33.10     99.00     99.00
 9   7 19 12     15.0 1    306.0      0.50     34.80     99.00     99.00
 9   7 19 13     15.0 1    306.0      0.50     36.10     99.00     99.00
 9   7 19 14     15.0 1    350.0      1.00     37.10     99.00     99.00
 9   7 19 15     15.0 1     15.0      1.50     37.90     99.00     99.00
 9   7 19 16     15.0 1     21.0      3.10     37.60     99.00     99.00
 9   7 19 17     15.0 1     18.0      2.60     36.90     99.00     99.00
 9   7 19 18     15.0 1    351.0      3.10     36.60     99.00     99.00
 9   7 19 19     15.0 1    318.0      4.10     35.60     99.00     99.00
 9   7 19 20     15.0 1    287.0      5.10     31.80     99.00     99.00
 9   7 19 21     15.0 1    290.0      4.60     28.50     99.00     99.00
 9   7 19 22     15.0 1    286.0      3.60     27.00     99.00     99.00
 9   7 19 23     15.0 1    314.0      3.60     26.10     99.00     99.00
 9   7 19 24     15.0 1    344.0      3.10     25.50     99.00     99.00
 9   7 20  1     15.0 1    341.0      4.10     24.60     99.00     99.00
 9   7 20  2     15.0 1    338.0      3.60     23.50     99.00     99.00
 9   7 20  3     15.0 1    340.0      3.10     23.10     99.00     99.00
 9   7 20  4     15.0 1    332.0      2.60     23.10     99.00     99.00
 9   7 20  5     15.0 1    335.0      2.60     23.00     99.00     99.00
 9   7 20  6     15.0 1    340.0      2.60     22.80     99.00     99.00
 9   7 20  7     15.0 1    353.0      2.10     24.10     99.00     99.00
 9   7 20  8     15.0 1    342.0      0.50     25.60     99.00     99.00
 9   7 20  9     15.0 1      0.0      0.00     27.80     99.00     99.00
 9   7 20 10     15.0 1      0.0      0.00     29.50     99.00     99.00
 9   7 20 11     15.0 1      0.0      0.00     31.30     99.00     99.00
 9   7 20 12     15.0 1      0.0      0.00     32.90     99.00     99.00
 9   7 20 13     15.0 1    328.0      0.50     34.10     99.00     99.00
 9   7 20 14     15.0 1    351.0      1.50     35.00     99.00     99.00
 9   7 20 15     15.0 1      6.0      2.60     35.50     99.00     99.00
 9   7 20 16     15.0 1     12.0      3.60     35.40     99.00     99.00
 9   7 20 17     15.0 1      7.0      2.60     34.90     99.00     99.00
 9   7 20 18     15.0 1      4.0      2.60     34.60     99.00     99.00
 9   7 20 19     15.0 1    333.0      3.10     33.60     99.00     99.00
 9   7 20 20     15.0 1    324.0      4.10     32.10     99.00     99.00
 9   7 20 21     15.0 1    315.0      4.10     30.50     99.00     99.00
 9   7 20 22     15.0 1    291.0      4.10     28.90     99.00     99.00
 9   7 20 23     15.0 1    285.0      3.60     27.60     99.00     99.00
 9   7 20 24     15.0 1    304.0      3.60     27.10     99.00     99.00
 9   7 21  1     15.0 1    338.0      3.60     26.30     99.00     99.00
 9   7 21  2     15.0 1      0.0      0.00     25.10     99.00     99.00
 9   7 21  3     15.0 1     13.0      3.10     23.90     99.00     99.00
 9   7 21  4     15.0 1      0.0      0.00     23.10     99.00     99.00
 9   7 21  5     15.0 1    355.0      2.60     22.50     99.00     99.00
 9   7 21  6     15.0 1    354.0      1.50     22.30     99.00     99.00
 9   7 21  7     15.0 1    353.0      2.10     23.10     99.00     99.00
 9   7 21  8     15.0 1    343.0      1.00     24.80     99.00     99.00
 9   7 21  9     15.0 1      0.0      0.00     27.00     99.00     99.00
 9   7 21 10     15.0 1      0.0      0.00     28.60     99.00     99.00
 9   7 21 11     15.0 1    281.0      0.50     30.30     99.00     99.00
 9   7 21 12     15.0 1      0.0      0.00     31.60     99.00     99.00
 9   7 21 13     15.0 1    318.0      0.50     32.90     99.00     99.00
 9   7 21 14     15.0 1     15.0      1.00     33.60     99.00     99.00
 9   7 21 15     15.0 1     15.0      1.50     34.10     99.00     99.00
 9   7 21 16     15.0 1      0.0      0.00     34.40     99.00     99.00
 9   7 21 17     15.0 1      6.0      2.60     33.90     99.00     99.00
 9   7 21 18     15.0 1      1.0      2.60     33.40     99.00     99.00
 9   7 21 19     15.0 1    338.0      3.10     32.50     99.00     99.00
 9   7 21 20     15.0 1    329.0      4.10     31.10     99.00     99.00
 9   7 21 21     15.0 1    326.0      4.10     29.50     99.00     99.00
 9   7 21 22     15.0 1    335.0      4.10     28.30     99.00     99.00
 9   7 21 23     15.0 1    328.0      4.10     26.90     99.00     99.00
 9   7 21 24     15.0 1    337.0      4.10     25.10     99.00     99.00
 9   7 22  1     15.0 1    349.0      3.60     23.60     99.00     99.00
 9   7 22  2     15.0 1    359.0      3.10     22.60     99.00     99.00
 9   7 22  3     15.0 1      6.0      3.10     21.60     99.00     99.00
 9   7 22  4     15.0 1      0.0      0.00     20.90     99.00     99.00
 9   7 22  5     15.0 1    360.0      2.60     20.30     99.00     99.00
 9   7 22  6     15.0 1    339.0      1.50     20.10     99.00     99.00
 9   7 22  7     15.0 1    346.0      1.50     21.10     99.00     99.00
 9   7 22  8     15.0 1    340.0      0.50     22.80     99.00     99.00
 9   7 22  9     15.0 1      0.0      0.00     25.10     99.00     99.00
 9   7 22 10     15.0 1      0.0      0.00     27.00     99.00     99.00
 9   7 22 11     15.0 1      0.0      0.00     28.80     99.00     99.00
 9   7 22 12     15.0 1    299.0      0.50     30.30     99.00     99.00
 9   7 22 13     15.0 1    330.0      0.50     31.60     99.00     99.00
 9   7 22 14     15.0 1    355.0      1.50     32.50     99.00     99.00
 9   7 22 15     15.0 1      0.0      0.00     33.00     99.00     99.00
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9	7	22	16	15.0	1	9.0	3.10	33.10	99.00	99.00
9	7	22	17	15.0	1	12.0	2.60	32.60	99.00	99.00
9	7	22	18	15.0	1	13.0	2.60	32.30	99.00	99.00
9	7	22	19	15.0	1	347.0	2.10	31.40	99.00	99.00
9	7	22	20	15.0	1	330.0	2.60	30.10	99.00	99.00
9	7	22	21	15.0	1	319.0	4.10	29.00	99.00	99.00
9	7	22	22	15.0	1	305.0	4.10	26.80	99.00	99.00
9	7	22	23	15.0	1	302.0	4.10	25.10	99.00	99.00
9	7	22	24	15.0	1	315.0	3.60	24.10	99.00	99.00
9	7	23	1	15.0	1	349.0	3.10	23.30	99.00	99.00
9	7	23	2	15.0	1	9.0	3.10	22.10	99.00	99.00
9	7	23	3	15.0	1	8.0	3.10	21.30	99.00	99.00
9	7	23	4	15.0	1	17.0	2.60	20.60	99.00	99.00
9	7	23	5	15.0	1	24.0	2.10	20.00	99.00	99.00
9	7	23	6	15.0	1	8.0	2.10	19.80	99.00	99.00
9	7	23	7	15.0	1	5.0	1.50	20.60	99.00	99.00
9	7	23	8	15.0	1	0.0	0.00	22.60	99.00	99.00
9	7	23	9	15.0	1	0.0	0.00	24.60	99.00	99.00
9	7	23	10	15.0	1	0.0	0.00	26.60	99.00	99.00
9	7	23	11	15.0	1	0.0	0.00	28.50	99.00	99.00
9	7	23	12	15.0	1	0.0	0.00	30.10	99.00	99.00
9	7	23	13	15.0	1	325.0	0.50	31.60	99.00	99.00
9	7	23	14	15.0	1	345.0	0.50	32.60	99.00	99.00
9	7	23	15	15.0	1	0.0	0.00	33.50	99.00	99.00
9	7	23	16	15.0	1	15.0	2.10	33.60	99.00	99.00
9	7	23	17	15.0	1	21.0	2.60	33.40	99.00	99.00
9	7	23	18	15.0	1	25.0	2.60	32.90	99.00	99.00
9	7	23	19	15.0	1	349.0	3.10	32.10	99.00	99.00
9	7	23	20	15.0	1	289.0	5.10	29.40	99.00	99.00
9	7	23	21	15.0	1	269.0	5.10	25.30	99.00	99.00
9	7	23	22	15.0	1	279.0	4.10	24.00	99.00	99.00
9	7	23	23	15.0	1	313.0	3.10	23.30	99.00	99.00
9	7	23	24	15.0	1	330.0	3.10	22.60	99.00	99.00
9	7	24	1	15.0	1	345.0	3.60	21.80	99.00	99.00
9	7	24	2	15.0	1	349.0	3.60	21.10	99.00	99.00
9	7	24	3	15.0	1	359.0	3.60	20.50	99.00	99.00
9	7	24	4	15.0	1	0.0	0.00	20.10	99.00	99.00
9	7	24	5	15.0	1	350.0	3.10	19.80	99.00	99.00
9	7	24	6	15.0	1	345.0	2.60	19.90	99.00	99.00
9	7	24	7	15.0	1	316.0	2.60	21.60	99.00	99.00
9	7	24	8	15.0	1	335.0	1.00	23.40	99.00	99.00
9	7	24	9	15.0	1	0.0	0.00	25.60	99.00	99.00
9	7	24	10	15.0	1	0.0	0.00	27.40	99.00	99.00
9	7	24	11	15.0	1	0.0	0.00	29.30	99.00	99.00
9	7	24	12	15.0	1	318.0	0.50	30.80	99.00	99.00
9	7	24	13	15.0	1	321.0	0.50	32.10	99.00	99.00
9	7	24	14	15.0	1	336.0	0.50	33.10	99.00	99.00
9	7	24	15	15.0	1	336.0	1.50	33.60	99.00	99.00
9	7	24	16	15.0	1	338.0	2.10	34.30	99.00	99.00
9	7	24	17	15.0	1	330.0	2.10	33.60	99.00	99.00
9	7	24	18	15.0	1	306.0	3.10	32.80	99.00	99.00
9	7	24	19	15.0	1	283.0	5.10	29.60	99.00	99.00
9	7	24	20	15.0	1	278.0	5.10	25.60	99.00	99.00
9	7	24	21	15.0	1	275.0	5.10	23.60	99.00	99.00
9	7	24	22	15.0	1	274.0	4.60	22.30	99.00	99.00
9	7	24	23	15.0	1	280.0	3.60	21.30	99.00	99.00
9	7	24	24	15.0	1	299.0	3.10	20.60	99.00	99.00
9	7	25	1	15.0	1	309.0	2.60	20.10	99.00	99.00
9	7	25	2	15.0	1	308.0	2.60	20.10	99.00	99.00
9	7	25	3	15.0	1	309.0	2.10	20.00	99.00	99.00
9	7	25	4	15.0	1	313.0	2.10	19.60	99.00	99.00
9	7	25	5	15.0	1	325.0	2.10	19.30	99.00	99.00
9	7	25	6	15.0	1	334.0	2.10	19.10	99.00	99.00
9	7	25	7	15.0	1	349.0	1.50	20.00	99.00	99.00
9	7	25	8	15.0	1	0.0	0.00	21.90	99.00	99.00
9	7	25	9	15.0	1	0.0	0.00	23.80	99.00	99.00
9	7	25	10	15.0	1	0.0	0.00	25.60	99.00	99.00
9	7	25	11	15.0	1	0.0	0.00	28.00	99.00	99.00
9	7	25	12	15.0	1	0.0	0.00	30.00	99.00	99.00
9	7	25	13	15.0	1	0.0	0.00	31.50	99.00	99.00
9	7	25	14	15.0	1	336.0	0.50	32.60	99.00	99.00
9	7	25	15	15.0	1	353.0	1.50	33.30	99.00	99.00
9	7	25	16	15.0	1	3.0	2.10	33.60	99.00	99.00
9	7	25	17	15.0	1	12.0	2.60	33.10	99.00	99.00
9	7	25	18	15.0	1	9.0	3.10	32.60	99.00	99.00
9	7	25	19	15.0	1	333.0	3.60	31.60	99.00	99.00
9	7	25	20	15.0	1	286.0	5.10	27.80	99.00	99.00

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 9   7 25 21     15.0 1    282.0      5.10     24.60     99.00     99.00
 9   7 25 22     15.0 1    278.0      4.10     23.10     99.00     99.00
 9   7 25 23     15.0 1    291.0      3.10     22.10     99.00     99.00
 9   7 25 24     15.0 1    315.0      3.10     21.50     99.00     99.00
 9   7 26  1     15.0 1    340.0      3.10     21.00     99.00     99.00
 9   7 26  2     15.0 1     15.0      3.10     20.40     99.00     99.00
 9   7 26  3     15.0 1     23.0      2.60     20.00     99.00     99.00
 9   7 26  4     15.0 1     16.0      1.50     19.80     99.00     99.00
 9   7 26  5     15.0 1      8.0      1.00     19.50     99.00     99.00
 9   7 26  6     15.0 1     16.0      0.50     19.30     99.00     99.00
 9   7 26  7     15.0 1    327.0      1.00     21.10     99.00     99.00
 9   7 26  8     15.0 1      0.0      0.00     23.00     99.00     99.00
 9   7 26  9     15.0 1      0.0      0.00     25.10     99.00     99.00
 9   7 26 10     15.0 1      0.0      0.00     27.10     99.00     99.00
 9   7 26 11     15.0 1      0.0      0.00     28.90     99.00     99.00
 9   7 26 12     15.0 1      0.0      0.00     30.60     99.00     99.00
 9   7 26 13     15.0 1      0.0      0.00     32.00     99.00     99.00
 9   7 26 14     15.0 1    348.0      0.50     33.10     99.00     99.00
 9   7 26 15     15.0 1      0.0      0.00     33.60     99.00     99.00
 9   7 26 16     15.0 1      9.0      2.10     34.00     99.00     99.00
 9   7 26 17     15.0 1     24.0      2.10     33.60     99.00     99.00
 9   7 26 18     15.0 1     24.0      2.10     33.30     99.00     99.00
 9   7 26 19     15.0 1    333.0      2.60     32.50     99.00     99.00
 9   7 26 20     15.0 1    288.0      5.10     28.80     99.00     99.00
 9   7 26 21     15.0 1    279.0      4.60     25.10     99.00     99.00
 9   7 26 22     15.0 1    290.0      4.10     23.80     99.00     99.00
 9   7 26 23     15.0 1    289.0      3.60     22.80     99.00     99.00
 9   7 26 24     15.0 1    317.0      3.10     22.00     99.00     99.00
 9   7 27  1     15.0 1    340.0      3.10     21.30     99.00     99.00
 9   7 27  2     15.0 1    360.0      2.60     20.60     99.00     99.00
 9   7 27  3     15.0 1    356.0      2.10     20.10     99.00     99.00
 9   7 27  4     15.0 1    327.0      1.00     19.90     99.00     99.00
 9   7 27  5     15.0 1    310.0      1.00     19.60     99.00     99.00
 9   7 27  6     15.0 1    307.0      1.50     19.50     99.00     99.00
 9   7 27  7     15.0 1    315.0      2.10     21.10     99.00     99.00
 9   7 27  8     15.0 1      0.0      0.00     23.00     99.00     99.00
 9   7 27  9     15.0 1      0.0      0.00     25.30     99.00     99.00
 9   7 27 10     15.0 1      0.0      0.00     27.10     99.00     99.00
 9   7 27 11     15.0 1      0.0      0.00     29.10     99.00     99.00
 9   7 27 12     15.0 1      0.0      0.00     30.80     99.00     99.00
 9   7 27 13     15.0 1      0.0      0.00     32.30     99.00     99.00
 9   7 27 14     15.0 1      0.0      0.00     33.50     99.00     99.00
 9   7 27 15     15.0 1     20.0      0.50     34.30     99.00     99.00
 9   7 27 16     15.0 1     21.0      1.00     34.80     99.00     99.00
 9   7 27 17     15.0 1     19.0      1.50     34.60     99.00     99.00
 9   7 27 18     15.0 1    343.0      2.10     34.40     99.00     99.00
 9   7 27 19     15.0 1    289.0      5.10     31.90     99.00     99.00
 9   7 27 20     15.0 1    284.0      5.10     26.80     99.00     99.00
 9   7 27 21     15.0 1    266.0      4.60     24.80     99.00     99.00
 9   7 27 22     15.0 1    268.0      4.10     23.50     99.00     99.00
 9   7 27 23     15.0 1    284.0      3.10     22.60     99.00     99.00
 9   7 27 24     15.0 1    287.0      2.10     22.10     99.00     99.00
 9   7 28  1     15.0 1    316.0      1.00     21.80     99.00     99.00
 9   7 28  2     15.0 1    310.0      1.00     21.40     99.00     99.00
 9   7 28  3     15.0 1    280.0      1.50     21.10     99.00     99.00
 9   7 28  4     15.0 1    277.0      2.60     20.60     99.00     99.00
 9   7 28  5     15.0 1    290.0      3.10     20.30     99.00     99.00
 9   7 28  6     15.0 1    301.0      2.60     20.10     99.00     99.00
 9   7 28  7     15.0 1    330.0      1.50     21.30     99.00     99.00
 9   7 28  8     15.0 1      0.0      0.00     23.10     99.00     99.00
 9   7 28  9     15.0 1      0.0      0.00     24.80     99.00     99.00
 9   7 28 10     15.0 1      0.0      0.00     26.60     99.00     99.00
 9   7 28 11     15.0 1      0.0      0.00     28.50     99.00     99.00
 9   7 28 12     15.0 1      0.0      0.00     30.10     99.00     99.00
 9   7 28 13     15.0 1      0.0      0.00     31.60     99.00     99.00
 9   7 28 14     15.0 1    327.0      0.50     32.90     99.00     99.00
 9   7 28 15     15.0 1      0.0      0.00     33.60     99.00     99.00
 9   7 28 16     15.0 1      0.0      0.00     34.10     99.00     99.00
 9   7 28 17     15.0 1    341.0      2.10     34.00     99.00     99.00
 9   7 28 18     15.0 1    289.0      4.10     32.80     99.00     99.00
 9   7 28 19     15.0 1    266.0      5.70     27.60     99.00     99.00
 9   7 28 20     15.0 1    275.0      5.10     24.60     99.00     99.00
 9   7 28 21     15.0 1    267.0      4.60     22.90     99.00     99.00
 9   7 28 22     15.0 1    270.0      4.10     21.60     99.00     99.00
 9   7 28 23     15.0 1    282.0      3.60     20.60     99.00     99.00
 9   7 28 24     15.0 1    310.0      2.60     20.10     99.00     99.00
 9   7 29  1     15.0 1    324.0      2.10     20.10     99.00     99.00
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 9   7 29   2     15.0 1   322.0     1.50    19.90    99.00    99.00
 9   7 29   3     15.0 1   311.0     2.10    19.60    99.00    99.00
 9   7 29   4     15.0 1   296.0     2.60    19.30    99.00    99.00
 9   7 29   5     15.0 1   307.0     2.60    18.90    99.00    99.00
 9   7 29   6     15.0 1   321.0     2.10    18.60    99.00    99.00
 9   7 29   7     15.0 1   316.0     1.50    19.60    99.00    99.00
 9   7 29   8     15.0 1     0.0     0.00    21.40    99.00    99.00
 9   7 29   9     15.0 1     0.0     0.00    23.00    99.00    99.00
 9   7 29  10     15.0 1     0.0     0.00    24.90    99.00    99.00
 9   7 29  11     15.0 1     0.0     0.00    26.60    99.00    99.00
 9   7 29  12     15.0 1     0.0     0.00    28.40    99.00    99.00
 9   7 29  13     15.0 1     0.0     0.00    29.90    99.00    99.00
 9   7 29  14     15.0 1     0.0     0.00    31.10    99.00    99.00
 9   7 29  15     15.0 1   348.0     1.00    31.90    99.00    99.00
 9   7 29  16     15.0 1    20.0     1.00    32.60    99.00    99.00
 9   7 29  17     15.0 1    12.0     1.50    32.90    99.00    99.00
 9   7 29  18     15.0 1   322.0     2.10    32.80    99.00    99.00
 9   7 29  19     15.0 1   281.0     5.10    29.50    99.00    99.00
 9   7 29  20     15.0 1   269.0     5.70    24.50    99.00    99.00
 9   7 29  21     15.0 1   268.0     4.60    22.60    99.00    99.00
 9   7 29  22     15.0 1   270.0     3.60    21.50    99.00    99.00
 9   7 29  23     15.0 1   285.0     3.10    20.60    99.00    99.00
 9   7 29  24     15.0 1   290.0     2.60    20.10    99.00    99.00
 9   7 30   1     15.0 1   322.0     1.50    19.90    99.00    99.00
 9   7 30   2     15.0 1   358.0     1.00    19.60    99.00    99.00
 9   7 30   3     15.0 1   308.0     0.50    19.50    99.00    99.00
 9   7 30   4     15.0 1   286.0     0.50    19.30    99.00    99.00
 9   7 30   5     15.0 1   292.0     0.50    18.90    99.00    99.00
 9   7 30   6     15.0 1   304.0     0.50    18.60    99.00    99.00
 9   7 30   7     15.0 1   328.0     1.00    20.10    99.00    99.00
 9   7 30   8     15.0 1     0.0     0.00    21.90    99.00    99.00
 9   7 30   9     15.0 1     0.0     0.00    23.60    99.00    99.00
 9   7 30  10     15.0 1     0.0     0.00    25.50    99.00    99.00
 9   7 30  11     15.0 1     0.0     0.00    27.30    99.00    99.00
 9   7 30  12     15.0 1     0.0     0.00    28.90    99.00    99.00
 9   7 30  13     15.0 1     0.0     0.00    30.30    99.00    99.00
 9   7 30  14     15.0 1     5.0     1.00    31.40    99.00    99.00
 9   7 30  15     15.0 1     0.0     0.00    32.10    99.00    99.00
 9   7 30  16     15.0 1    12.0     2.60    32.50    99.00    99.00
 9   7 30  17     15.0 1    19.0     2.60    32.40    99.00    99.00
 9   7 30  18     15.0 1     4.0     2.10    32.30    99.00    99.00
 9   7 30  19     15.0 1   294.0     3.60    31.10    99.00    99.00
 9   7 30  20     15.0 1   270.0     5.10    26.60    99.00    99.00
 9   7 30  21     15.0 1   271.0     4.60    24.10    99.00    99.00
 9   7 30  22     15.0 1   276.0     4.10    23.00    99.00    99.00
 9   7 30  23     15.0 1   297.0     3.60    22.60    99.00    99.00
 9   7 30  24     15.0 1   314.0     3.10    22.30    99.00    99.00
 9   7 31   1     15.0 1   339.0     3.10    21.90    99.00    99.00
 9   7 31   2     15.0 1    13.0     3.10    21.30    99.00    99.00
 9   7 31   3     15.0 1    18.0     3.10    20.50    99.00    99.00
 9   7 31   4     15.0 1    22.0     2.60    19.60    99.00    99.00
 9   7 31   5     15.0 1    20.0     2.10    19.00    99.00    99.00
 9   7 31   6     15.0 1    12.0     1.50    18.60    99.00    99.00
 9   7 31   7     15.0 1     0.0     0.00    19.10    99.00    99.00
 9   7 31   8     15.0 1   330.0     0.50    21.00    99.00    99.00
 9   7 31   9     15.0 1     0.0     0.00    22.80    99.00    99.00
 9   7 31  10     15.0 1     0.0     0.00    24.60    99.00    99.00
 9   7 31  11     15.0 1     0.0     0.00    26.30    99.00    99.00
 9   7 31  12     15.0 1   306.0     0.50    27.80    99.00    99.00
 9   7 31  13     15.0 1   332.0     0.50    29.10    99.00    99.00
 9   7 31  14     15.0 1     4.0     1.00    30.00    99.00    99.00
 9   7 31  15     15.0 1    10.0     2.10    30.40    99.00    99.00
 9   7 31  16     15.0 1    24.0     3.10    30.40    99.00    99.00
 9   7 31  17     15.0 1    25.0     2.60    30.00    99.00    99.00
 9   7 31  18     15.0 1    25.0     3.10    29.10    99.00    99.00
 9   7 31  19     15.0 1     6.0     3.60    28.10    99.00    99.00
 9   7 31  20     15.0 1   336.0     3.60    27.00    99.00    99.00
 9   7 31  21     15.0 1   308.0     4.10    25.40    99.00    99.00
 9   7 31  22     15.0 1   287.0     4.10    23.30    99.00    99.00
 9   7 31  23     15.0 1   287.0     3.60    21.60    99.00    99.00
 9   7 31  24     15.0 1   298.0     3.10    21.00    99.00    99.00
 9   8   1   1     15.0 1   319.0     3.10    20.60    99.00    99.00
 9   8   1   2     15.0 1   330.0     2.60    20.40    99.00    99.00
 9   8   1   3     15.0 1   339.0     2.10    20.10    99.00    99.00
 9   8   1   4     15.0 1   350.0     2.10    19.60    99.00    99.00
 9   8   1   5     15.0 1   347.0     1.50    19.30    99.00    99.00
 9   8   1   6     15.0 1   351.0     1.50    19.00    99.00    99.00
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 9  8  1  7    15.0 1     9.0     1.50    18.80    99.00    99.00
 9  8  1  8    15.0 1     7.0     1.00    19.10    99.00    99.00
 9  8  1  9    15.0 1     0.0     0.00    20.40    99.00    99.00
 9  8  1 10    15.0 1     0.0     0.00    21.80    99.00    99.00
 9  8  1 11    15.0 1     0.0     0.00    23.00    99.00    99.00
 9  8  1 12    15.0 1     0.0     0.00    24.10    99.00    99.00
 9  8  1 13    15.0 1     0.0     0.00    25.30    99.00    99.00
 9  8  1 14    15.0 1     6.0     0.50    26.10    99.00    99.00
 9  8  1 15    15.0 1    20.0     1.50    26.50    99.00    99.00
 9  8  1 16    15.0 1    38.0     1.50    26.50    99.00    99.00
 9  8  1 17    15.0 1    68.0     1.50    26.10    99.00    99.00
 9  8  1 18    15.0 1    94.0     1.50    25.60    99.00    99.00
 9  8  1 19    15.0 1   116.0     1.50    25.00    99.00    99.00
 9  8  1 20    15.0 1   199.0     0.50    24.30    99.00    99.00
 9  8  1 21    15.0 1   266.0     2.10    23.80    99.00    99.00
 9  8  1 22    15.0 1   277.0     4.10    21.50    99.00    99.00
 9  8  1 23    15.0 1   288.0     4.10    19.30    99.00    99.00
 9  8  1 24    15.0 1   289.0     3.60    18.40    99.00    99.00
 9  8  2  1    15.0 1   292.0     3.10    17.60    99.00    99.00
 9  8  2  2    15.0 1   301.0     3.10    17.10    99.00    99.00
 9  8  2  3    15.0 1   310.0     2.60    16.90    99.00    99.00
 9  8  2  4    15.0 1   314.0     2.60    16.60    99.00    99.00
 9  8  2  5    15.0 1   325.0     2.10    16.40    99.00    99.00
 9  8  2  6    15.0 1   332.0     1.50    16.10    99.00    99.00
 9  8  2  7    15.0 1     0.0     0.00    17.00    99.00    99.00
 9  8  2  8    15.0 1     0.0     0.00    18.90    99.00    99.00
 9  8  2  9    15.0 1     0.0     0.00    20.60    99.00    99.00
 9  8  2 10    15.0 1     0.0     0.00    22.30    99.00    99.00
 9  8  2 11    15.0 1     0.0     0.00    24.10    99.00    99.00
 9  8  2 12    15.0 1     0.0     0.00    26.00    99.00    99.00
 9  8  2 13    15.0 1     0.0     0.00    27.10    99.00    99.00
 9  8  2 14    15.0 1   337.0     0.50    28.10    99.00    99.00
 9  8  2 15    15.0 1     0.0     0.00    28.60    99.00    99.00
 9  8  2 16    15.0 1    24.0     2.10    29.00    99.00    99.00
 9  8  2 17    15.0 1    19.0     2.60    28.90    99.00    99.00
 9  8  2 18    15.0 1    26.0     2.60    28.30    99.00    99.00
 9  8  2 19    15.0 1    35.0     2.60    27.40    99.00    99.00
 9  8  2 20    15.0 1   357.0     1.50    26.10    99.00    99.00
 9  8  2 21    15.0 1   280.0     5.10    23.60    99.00    99.00
 9  8  2 22    15.0 1   275.0     5.10    20.00    99.00    99.00
 9  8  2 23    15.0 1   281.0     4.10    18.80    99.00    99.00
 9  8  2 24    15.0 1   283.0     3.60    18.00    99.00    99.00
 9  8  3  1    15.0 1   310.0     2.60    17.40    99.00    99.00
 9  8  3  2    15.0 1   347.0     2.10    17.10    99.00    99.00
 9  8  3  3    15.0 1   340.0     1.50    16.60    99.00    99.00
 9  8  3  4    15.0 1   320.0     1.50    16.30    99.00    99.00
 9  8  3  5    15.0 1   309.0     1.50    15.90    99.00    99.00
 9  8  3  6    15.0 1   321.0     1.50    15.60    99.00    99.00
 9  8  3  7    15.0 1   329.0     1.50    16.60    99.00    99.00
 9  8  3  8    15.0 1     0.0     0.00    18.60    99.00    99.00
 9  8  3  9    15.0 1     0.0     0.00    20.30    99.00    99.00
 9  8  3 10    15.0 1     0.0     0.00    22.30    99.00    99.00
 9  8  3 11    15.0 1     0.0     0.00    24.10    99.00    99.00
 9  8  3 12    15.0 1     0.0     0.00    25.80    99.00    99.00
 9  8  3 13    15.0 1     0.0     0.00    27.30    99.00    99.00
 9  8  3 14    15.0 1   329.0     0.50    28.40    99.00    99.00
 9  8  3 15    15.0 1   350.0     1.50    29.10    99.00    99.00
 9  8  3 16    15.0 1     0.0     0.00    29.90    99.00    99.00
 9  8  3 17    15.0 1    12.0     2.60    29.60    99.00    99.00
 9  8  3 18    15.0 1    25.0     2.60    29.10    99.00    99.00
 9  8  3 19    15.0 1    24.0     3.10    28.00    99.00    99.00
 9  8  3 20    15.0 1   301.0     3.10    26.60    99.00    99.00
 9  8  3 21    15.0 1   277.0     5.10    22.40    99.00    99.00
 9  8  3 22    15.0 1   267.0     4.60    20.10    99.00    99.00
 9  8  3 23    15.0 1   277.0     4.10    19.10    99.00    99.00
 9  8  3 24    15.0 1   300.0     3.10    18.10    99.00    99.00
 9  8  4  1    15.0 1   336.0     2.60    17.60    99.00    99.00
 9  8  4  2    15.0 1   349.0     2.60    17.30    99.00    99.00
 9  8  4  3    15.0 1   337.0     1.50    17.00    99.00    99.00
 9  8  4  4    15.0 1   318.0     1.50    16.60    99.00    99.00
 9  8  4  5    15.0 1   319.0     1.00    16.40    99.00    99.00
 9  8  4  6    15.0 1     2.0     0.50    16.10    99.00    99.00
 9  8  4  7    15.0 1     7.0     1.00    17.10    99.00    99.00
 9  8  4  8    15.0 1     0.0     0.00    18.90    99.00    99.00
 9  8  4  9    15.0 1     0.0     0.00    20.40    99.00    99.00
 9  8  4 10    15.0 1     0.0     0.00    22.40    99.00    99.00
 9  8  4 11    15.0 1     0.0     0.00    24.10    99.00    99.00
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 9  8  4 12    15.0 1     0.0     0.00    25.80    99.00    99.00
 9  8  4 13    15.0 1     0.0     0.00    27.10    99.00    99.00
 9  8  4 14    15.0 1   337.0     0.50    28.40    99.00    99.00
 9  8  4 15    15.0 1   353.0     1.00    29.10    99.00    99.00
 9  8  4 16    15.0 1     8.0     1.50    29.50    99.00    99.00
 9  8  4 17    15.0 1    18.0     2.60    29.40    99.00    99.00
 9  8  4 18    15.0 1    32.0     2.10    29.00    99.00    99.00
 9  8  4 19    15.0 1    42.0     2.10    27.90    99.00    99.00
 9  8  4 20    15.0 1    42.0     1.00    26.60    99.00    99.00
 9  8  4 21    15.0 1   285.0     2.10    25.10    99.00    99.00
 9  8  4 22    15.0 1   285.0     5.10    21.80    99.00    99.00
 9  8  4 23    15.0 1   293.0     4.10    19.80    99.00    99.00
 9  8  4 24    15.0 1   299.0     3.60    18.90    99.00    99.00
 9  8  5  1    15.0 1   330.0     3.60    18.30    99.00    99.00
 9  8  5  2    15.0 1   352.0     3.10    17.90    99.00    99.00
 9  8  5  3    15.0 1   354.0     2.10    17.60    99.00    99.00
 9  8  5  4    15.0 1     5.0     1.00    17.10    99.00    99.00
 9  8  5  5    15.0 1    11.0     0.50    16.60    99.00    99.00
 9  8  5  6    15.0 1    35.0     0.50    16.10    99.00    99.00
 9  8  5  7    15.0 1    16.0     1.00    17.00    99.00    99.00
 9  8  5  8    15.0 1     0.0     0.00    18.60    99.00    99.00
 9  8  5  9    15.0 1     0.0     0.00    20.40    99.00    99.00
 9  8  5 10    15.0 1     0.0     0.00    22.40    99.00    99.00
 9  8  5 11    15.0 1     0.0     0.00    24.30    99.00    99.00
 9  8  5 12    15.0 1     0.0     0.00    26.10    99.00    99.00
 9  8  5 13    15.0 1     0.0     0.00    27.60    99.00    99.00
 9  8  5 14    15.0 1     0.0     0.00    28.60    99.00    99.00
 9  8  5 15    15.0 1    12.0     0.50    29.40    99.00    99.00
 9  8  5 16    15.0 1    20.0     1.50    29.90    99.00    99.00
 9  8  5 17    15.0 1    26.0     2.10    29.60    99.00    99.00
 9  8  5 18    15.0 1    21.0     1.50    29.40    99.00    99.00
 9  8  5 19    15.0 1   291.0     4.60    27.50    99.00    99.00
 9  8  5 20    15.0 1   270.0     5.70    22.10    99.00    99.00
 9  8  5 21    15.0 1   268.0     5.10    19.80    99.00    99.00
 9  8  5 22    15.0 1   270.0     4.60    18.30    99.00    99.00
 9  8  5 23    15.0 1   287.0     3.60    17.30    99.00    99.00
 9  8  5 24    15.0 1   340.0     2.10    16.90    99.00    99.00
 9  8  6  1    15.0 1   332.0     1.50    16.60    99.00    99.00
 9  8  6  2    15.0 1   285.0     2.60    16.10    99.00    99.00
 9  8  6  3    15.0 1   268.0     3.10    15.10    99.00    99.00
 9  8  6  4    15.0 1   268.0     3.10    14.10    99.00    99.00
 9  8  6  5    15.0 1   294.0     2.60    13.50    99.00    99.00
 9  8  6  6    15.0 1   306.0     2.60    13.40    99.00    99.00
 9  8  6  7    15.0 1   323.0     2.10    14.60    99.00    99.00
 9  8  6  8    15.0 1     0.0     0.00    16.00    99.00    99.00
 9  8  6  9    15.0 1     0.0     0.00    17.30    99.00    99.00
 9  8  6 10    15.0 1     0.0     0.00    19.10    99.00    99.00
 9  8  6 11    15.0 1     0.0     0.00    20.60    99.00    99.00
 9  8  6 12    15.0 1     0.0     0.00    22.10    99.00    99.00
 9  8  6 13    15.0 1   316.0     1.00    23.40    99.00    99.00
 9  8  6 14    15.0 1   342.0     1.50    24.30    99.00    99.00
 9  8  6 15    15.0 1   346.0     3.10    24.60    99.00    99.00
 9  8  6 16    15.0 1   360.0     4.60    24.60    99.00    99.00
 9  8  6 17    15.0 1     0.0     0.00    24.00    99.00    99.00
 9  8  6 18    15.0 1     1.0     3.60    22.90    99.00    99.00
 9  8  6 19    15.0 1   354.0     4.10    21.10    99.00    99.00
 9  8  6 20    15.0 1   348.0     4.10    19.60    99.00    99.00
 9  8  6 21    15.0 1   336.0     3.60    18.30    99.00    99.00
 9  8  6 22    15.0 1   336.0     3.10    17.40    99.00    99.00
 9  8  6 23    15.0 1   334.0     2.60    16.60    99.00    99.00
 9  8  6 24    15.0 1   298.0     2.60    16.00    99.00    99.00
 9  8  7  1    15.0 1   291.0     2.60    15.50    99.00    99.00
 9  8  7  2    15.0 1   292.0     2.60    15.00    99.00    99.00
 9  8  7  3    15.0 1   301.0     2.10    14.60    99.00    99.00
 9  8  7  4    15.0 1   311.0     1.50    14.30    99.00    99.00
 9  8  7  5    15.0 1   318.0     0.50    14.00    99.00    99.00
 9  8  7  6    15.0 1     0.0     0.00    13.80    99.00    99.00
 9  8  7  7    15.0 1   347.0     1.00    15.10    99.00    99.00
 9  8  7  8    15.0 1     0.0     0.00    16.80    99.00    99.00
 9  8  7  9    15.0 1     0.0     0.00    18.30    99.00    99.00
 9  8  7 10    15.0 1     0.0     0.00    20.00    99.00    99.00
 9  8  7 11    15.0 1     0.0     0.00    21.50    99.00    99.00
 9  8  7 12    15.0 1   290.0     0.50    23.10    99.00    99.00
 9  8  7 13    15.0 1   296.0     1.00    24.40    99.00    99.00
 9  8  7 14    15.0 1   317.0     2.10    25.40    99.00    99.00
 9  8  7 15    15.0 1   344.0     2.60    25.90    99.00    99.00
 9  8  7 16    15.0 1   346.0     3.60    26.00    99.00    99.00
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 9  8  7 17    15.0 1     0.0     0.00    25.60    99.00    99.00
 9  8  7 18    15.0 1    11.0     2.60    25.10    99.00    99.00
 9  8  7 19    15.0 1     6.0     2.10    24.50    99.00    99.00
 9  8  7 20    15.0 1   326.0     1.00    23.40    99.00    99.00
 9  8  7 21    15.0 1   278.0     1.00    22.10    99.00    99.00
 9  8  7 22    15.0 1   261.0     1.00    20.90    99.00    99.00
 9  8  7 23    15.0 1   226.0     0.50    19.60    99.00    99.00
 9  8  7 24    15.0 1   186.0     0.50    18.60    99.00    99.00
 9  8  8  1    15.0 1   127.0     0.50    18.00    99.00    99.00
 9  8  8  2    15.0 1     0.0     0.00    17.30    99.00    99.00
 9  8  8  3    15.0 1   327.0     1.00    16.80    99.00    99.00
 9  8  8  4    15.0 1   334.0     1.50    16.30    99.00    99.00
 9  8  8  5    15.0 1   322.0     1.50    15.80    99.00    99.00
 9  8  8  6    15.0 1   307.0     1.50    15.40    99.00    99.00
 9  8  8  7    15.0 1   336.0     2.10    16.80    99.00    99.00
 9  8  8  8    15.0 1     0.0     0.00    18.60    99.00    99.00
 9  8  8  9    15.0 1     0.0     0.00    20.60    99.00    99.00
 9  8  8 10    15.0 1     0.0     0.00    22.40    99.00    99.00
 9  8  8 11    15.0 1     0.0     0.00    24.00    99.00    99.00
 9  8  8 12    15.0 1     0.0     0.00    25.60    99.00    99.00
 9  8  8 13    15.0 1     0.0     0.00    27.00    99.00    99.00
 9  8  8 14    15.0 1     0.0     0.00    28.00    99.00    99.00
 9  8  8 15    15.0 1    11.0     1.00    28.60    99.00    99.00
 9  8  8 16    15.0 1    12.0     2.10    29.40    99.00    99.00
 9  8  8 17    15.0 1    11.0     2.60    29.00    99.00    99.00
 9  8  8 18    15.0 1    18.0     2.60    28.40    99.00    99.00
 9  8  8 19    15.0 1    18.0     2.60    27.30    99.00    99.00
 9  8  8 20    15.0 1    10.0     1.50    26.00    99.00    99.00
 9  8  8 21    15.0 1     0.0     0.00    24.50    99.00    99.00
 9  8  8 22    15.0 1   251.0     1.00    23.10    99.00    99.00
 9  8  8 23    15.0 1   268.0     2.60    21.90    99.00    99.00
 9  8  8 24    15.0 1   278.0     1.50    21.00    99.00    99.00
 9  8  9  1    15.0 1   277.0     0.50    20.40    99.00    99.00
 9  8  9  2    15.0 1     0.0     0.00    19.90    99.00    99.00
 9  8  9  3    15.0 1     0.0     0.00    19.30    99.00    99.00
 9  8  9  4    15.0 1   281.0     0.50    18.80    99.00    99.00
 9  8  9  5    15.0 1   258.0     1.00    18.40    99.00    99.00
 9  8  9  6    15.0 1   274.0     1.50    18.10    99.00    99.00
 9  8  9  7    15.0 1   303.0     1.50    19.60    99.00    99.00
 9  8  9  8    15.0 1   304.0     1.00    21.60    99.00    99.00
 9  8  9  9    15.0 1   283.0     0.50    24.10    99.00    99.00
 9  8  9 10    15.0 1     0.0     0.00    26.10    99.00    99.00
 9  8  9 11    15.0 1     0.0     0.00    28.10    99.00    99.00
 9  8  9 12    15.0 1     0.0     0.00    29.60    99.00    99.00
 9  8  9 13    15.0 1     0.0     0.00    30.90    99.00    99.00
 9  8  9 14    15.0 1    11.0     0.50    31.80    99.00    99.00
 9  8  9 15    15.0 1    35.0     1.00    32.30    99.00    99.00
 9  8  9 16    15.0 1    34.0     2.60    32.30    99.00    99.00
 9  8  9 17    15.0 1    30.0     2.60    31.60    99.00    99.00
 9  8  9 18    15.0 1    17.0     2.60    31.10    99.00    99.00
 9  8  9 19    15.0 1    13.0     2.10    29.90    99.00    99.00
 9  8  9 20    15.0 1   287.0     0.50    28.40    99.00    99.00
 9  8  9 21    15.0 1   259.0     3.60    26.80    99.00    99.00
 9  8  9 22    15.0 1   282.0     4.10    24.10    99.00    99.00
 9  8  9 23    15.0 1   294.0     3.60    22.90    99.00    99.00
 9  8  9 24    15.0 1   318.0     1.00    22.50    99.00    99.00
 9  8 10  1    15.0 1    15.0     1.00    22.10    99.00    99.00
 9  8 10  2    15.0 1    52.0     1.00    22.00    99.00    99.00
 9  8 10  3    15.0 1    47.0     0.50    21.40    99.00    99.00
 9  8 10  4    15.0 1     0.0     0.00    20.60    99.00    99.00
 9  8 10  5    15.0 1   220.0     0.50    20.10    99.00    99.00
 9  8 10  6    15.0 1   228.0     1.00    19.80    99.00    99.00
 9  8 10  7    15.0 1   262.0     1.00    21.30    99.00    99.00
 9  8 10  8    15.0 1   275.0     0.50    23.40    99.00    99.00
 9  8 10  9    15.0 1   257.0     0.50    25.60    99.00    99.00
 9  8 10 10    15.0 1     0.0     0.00    27.60    99.00    99.00
 9  8 10 11    15.0 1     0.0     0.00    29.60    99.00    99.00
 9  8 10 12    15.0 1     0.0     0.00    31.10    99.00    99.00
 9  8 10 13    15.0 1     0.0     0.00    32.40    99.00    99.00
 9  8 10 14    15.0 1   320.0     0.50    33.30    99.00    99.00
 9  8 10 15    15.0 1   348.0     0.50    34.00    99.00    99.00
 9  8 10 16    15.0 1    23.0     1.00    34.10    99.00    99.00
 9  8 10 17    15.0 1    32.0     1.50    33.60    99.00    99.00
 9  8 10 18    15.0 1    31.0     2.60    33.00    99.00    99.00
 9  8 10 19    15.0 1     4.0     2.10    31.60    99.00    99.00
 9  8 10 20    15.0 1   293.0     5.70    29.10    99.00    99.00
 9  8 10 21    15.0 1   278.0     4.10    25.10    99.00    99.00
```

9	8	10	22	15.0	1	291.0	3.60	23.60	99.00	99.00
9	8	10	23	15.0	1	301.0	3.60	22.90	99.00	99.00
9	8	10	24	15.0	1	338.0	2.60	22.40	99.00	99.00
9	8	11	1	15.0	1	34.0	3.60	21.90	99.00	99.00
9	8	11	2	15.0	1	28.0	3.60	21.30	99.00	99.00
9	8	11	3	15.0	1	32.0	3.10	20.80	99.00	99.00
9	8	11	4	15.0	1	31.0	2.10	20.30	99.00	99.00
9	8	11	5	15.0	1	43.0	1.00	19.90	99.00	99.00
9	8	11	6	15.0	1	47.0	0.50	19.60	99.00	99.00
9	8	11	7	15.0	1	65.0	0.50	21.00	99.00	99.00
9	8	11	8	15.0	1	0.0	0.00	23.10	99.00	99.00
9	8	11	9	15.0	1	0.0	0.00	25.60	99.00	99.00
9	8	11	10	15.0	1	0.0	0.00	27.30	99.00	99.00
9	8	11	11	15.0	1	0.0	0.00	29.10	99.00	99.00
9	8	11	12	15.0	1	0.0	0.00	31.00	99.00	99.00
9	8	11	13	15.0	1	0.0	0.00	32.40	99.00	99.00
9	8	11	14	15.0	1	0.0	0.00	33.40	99.00	99.00
9	8	11	15	15.0	1	349.0	0.50	34.00	99.00	99.00
9	8	11	16	15.0	1	6.0	1.50	34.10	99.00	99.00
9	8	11	17	15.0	1	18.0	2.10	33.40	99.00	99.00
9	8	11	18	15.0	1	19.0	3.10	32.60	99.00	99.00
9	8	11	19	15.0	1	356.0	3.10	31.50	99.00	99.00
9	8	11	20	15.0	1	299.0	5.10	29.10	99.00	99.00
9	8	11	21	15.0	1	281.0	4.60	25.10	99.00	99.00
9	8	11	22	15.0	1	278.0	4.10	23.60	99.00	99.00
9	8	11	23	15.0	1	276.0	3.60	22.60	99.00	99.00
9	8	11	24	15.0	1	313.0	2.10	22.10	99.00	99.00
9	8	12	1	15.0	1	23.0	1.50	21.90	99.00	99.00
9	8	12	2	15.0	1	38.0	1.00	21.50	99.00	99.00
9	8	12	3	15.0	1	0.0	0.00	21.10	99.00	99.00
9	8	12	4	15.0	1	229.0	0.50	20.90	99.00	99.00
9	8	12	5	15.0	1	0.0	0.00	20.40	99.00	99.00
9	8	12	6	15.0	1	0.0	0.00	19.90	99.00	99.00
9	8	12	7	15.0	1	0.0	0.00	21.40	99.00	99.00
9	8	12	8	15.0	1	0.0	0.00	23.40	99.00	99.00
9	8	12	9	15.0	1	0.0	0.00	25.10	99.00	99.00
9	8	12	10	15.0	1	0.0	0.00	26.90	99.00	99.00
9	8	12	11	15.0	1	0.0	0.00	29.00	99.00	99.00
9	8	12	12	15.0	1	0.0	0.00	30.50	99.00	99.00
9	8	12	13	15.0	1	0.0	0.00	31.90	99.00	99.00
9	8	12	14	15.0	1	339.0	1.00	32.90	99.00	99.00
9	8	12	15	15.0	1	356.0	2.10	33.40	99.00	99.00
9	8	12	16	15.0	1	0.0	0.00	33.40	99.00	99.00
9	8	12	17	15.0	1	8.0	2.60	32.80	99.00	99.00
9	8	12	18	15.0	1	12.0	3.10	32.10	99.00	99.00
9	8	12	19	15.0	1	6.0	3.10	31.00	99.00	99.00
9	8	12	20	15.0	1	339.0	2.10	29.60	99.00	99.00
9	8	12	21	15.0	1	295.0	2.60	28.60	99.00	99.00
9	8	12	22	15.0	1	272.0	3.60	27.10	99.00	99.00
9	8	12	23	15.0	1	271.0	3.10	26.00	99.00	99.00
9	8	12	24	15.0	1	282.0	2.60	25.30	99.00	99.00
9	8	13	1	15.0	1	332.0	3.10	24.60	99.00	99.00
9	8	13	2	15.0	1	5.0	4.10	23.40	99.00	99.00
9	8	13	3	15.0	1	0.0	0.00	22.10	99.00	99.00
9	8	13	4	15.0	1	5.0	2.60	21.60	99.00	99.00
9	8	13	5	15.0	1	359.0	2.10	21.00	99.00	99.00
9	8	13	6	15.0	1	3.0	2.10	20.60	99.00	99.00
9	8	13	7	15.0	1	346.0	2.60	21.40	99.00	99.00
9	8	13	8	15.0	1	336.0	0.50	23.00	99.00	99.00
9	8	13	9	15.0	1	0.0	0.00	25.10	99.00	99.00
9	8	13	10	15.0	1	0.0	0.00	26.90	99.00	99.00
9	8	13	11	15.0	1	0.0	0.00	28.50	99.00	99.00
9	8	13	12	15.0	1	276.0	0.50	30.10	99.00	99.00
9	8	13	13	15.0	1	0.0	0.00	31.10	99.00	99.00
9	8	13	14	15.0	1	326.0	0.50	32.10	99.00	99.00
9	8	13	15	15.0	1	2.0	1.50	32.50	99.00	99.00
9	8	13	16	15.0	1	0.0	0.00	32.60	99.00	99.00
9	8	13	17	15.0	1	8.0	2.60	31.90	99.00	99.00
9	8	13	18	15.0	1	0.0	0.00	31.00	99.00	99.00
9	8	13	19	15.0	1	348.0	4.10	29.60	99.00	99.00
9	8	13	20	15.0	1	327.0	4.10	28.10	99.00	99.00
9	8	13	21	15.0	1	323.0	3.60	27.00	99.00	99.00
9	8	13	22	15.0	1	320.0	3.10	26.10	99.00	99.00
9	8	13	23	15.0	1	319.0	2.60	25.60	99.00	99.00
9	8	13	24	15.0	1	313.0	1.50	25.00	99.00	99.00
9	8	14	1	15.0	1	331.0	2.60	24.40	99.00	99.00
9	8	14	2	15.0	1	355.0	4.10	23.30	99.00	99.00

9	8	14	3	15.0	1	6.0	3.60	21.90	99.00	99.00
9	8	14	4	15.0	1	358.0	3.60	21.00	99.00	99.00
9	8	14	5	15.0	1	346.0	3.10	20.40	99.00	99.00
9	8	14	6	15.0	1	346.0	2.60	20.10	99.00	99.00
9	8	14	7	15.0	1	350.0	3.10	21.00	99.00	99.00
9	8	14	8	15.0	1	352.0	1.50	22.50	99.00	99.00
9	8	14	9	15.0	1	324.0	0.50	24.10	99.00	99.00
9	8	14	10	15.0	1	0.0	0.00	25.60	99.00	99.00
9	8	14	11	15.0	1	0.0	0.00	27.10	99.00	99.00
9	8	14	12	15.0	1	290.0	0.50	28.30	99.00	99.00
9	8	14	13	15.0	1	328.0	1.00	29.30	99.00	99.00
9	8	14	14	15.0	1	348.0	2.10	30.00	99.00	99.00
9	8	14	15	15.0	1	352.0	3.60	30.30	99.00	99.00
9	8	14	16	15.0	1	357.0	4.60	29.90	99.00	99.00
9	8	14	17	15.0	1	357.0	3.60	29.10	99.00	99.00
9	8	14	18	15.0	1	355.0	3.60	27.90	99.00	99.00
9	8	14	19	15.0	1	336.0	4.10	26.40	99.00	99.00
9	8	14	20	15.0	1	332.0	4.10	24.90	99.00	99.00
9	8	14	21	15.0	1	323.0	3.60	23.60	99.00	99.00
9	8	14	22	15.0	1	298.0	3.60	23.00	99.00	99.00
9	8	14	23	15.0	1	293.0	3.60	22.10	99.00	99.00
9	8	14	24	15.0	1	305.0	3.60	21.30	99.00	99.00
9	8	15	1	15.0	1	317.0	3.60	20.40	99.00	99.00
9	8	15	2	15.0	1	337.0	3.10	19.40	99.00	99.00
9	8	15	3	15.0	1	356.0	2.60	18.80	99.00	99.00
9	8	15	4	15.0	1	15.0	1.50	18.30	99.00	99.00
9	8	15	5	15.0	1	0.0	0.00	17.90	99.00	99.00
9	8	15	6	15.0	1	0.0	0.00	17.60	99.00	99.00
9	8	15	7	15.0	1	327.0	1.00	18.60	99.00	99.00
9	8	15	8	15.0	1	0.0	0.00	20.10	99.00	99.00
9	8	15	9	15.0	1	0.0	0.00	21.60	99.00	99.00
9	8	15	10	15.0	1	0.0	0.00	23.10	99.00	99.00
9	8	15	11	15.0	1	285.0	0.50	24.90	99.00	99.00
9	8	15	12	15.0	1	303.0	0.50	26.30	99.00	99.00
9	8	15	13	15.0	1	343.0	0.50	27.40	99.00	99.00
9	8	15	14	15.0	1	7.0	1.00	28.10	99.00	99.00
9	8	15	15	15.0	1	15.0	2.10	28.50	99.00	99.00
9	8	15	16	15.0	1	12.0	2.60	28.60	99.00	99.00
9	8	15	17	15.0	1	6.0	2.60	28.30	99.00	99.00
9	8	15	18	15.0	1	12.0	2.60	27.90	99.00	99.00
9	8	15	19	15.0	1	0.0	0.00	26.90	99.00	99.00
9	8	15	20	15.0	1	354.0	1.00	25.60	99.00	99.00
9	8	15	21	15.0	1	246.0	0.50	24.10	99.00	99.00
9	8	15	22	15.0	1	244.0	1.50	22.90	99.00	99.00
9	8	15	23	15.0	1	242.0	1.00	22.10	99.00	99.00
9	8	15	24	15.0	1	98.0	1.00	21.10	99.00	99.00
9	8	16	1	15.0	1	106.0	1.50	20.10	99.00	99.00
9	8	16	2	15.0	1	329.0	1.00	19.50	99.00	99.00
9	8	16	3	15.0	1	312.0	2.10	18.90	99.00	99.00
9	8	16	4	15.0	1	302.0	2.60	18.10	99.00	99.00
9	8	16	5	15.0	1	299.0	3.10	17.50	99.00	99.00
9	8	16	6	15.0	1	296.0	2.60	16.90	99.00	99.00
9	8	16	7	15.0	1	329.0	3.60	18.10	99.00	99.00
9	8	16	8	15.0	1	328.0	2.10	19.90	99.00	99.00
9	8	16	9	15.0	1	310.0	0.50	21.90	99.00	99.00
9	8	16	10	15.0	1	0.0	0.00	23.60	99.00	99.00
9	8	16	11	15.0	1	292.0	0.50	25.10	99.00	99.00
9	8	16	12	15.0	1	302.0	0.50	26.60	99.00	99.00
9	8	16	13	15.0	1	0.0	0.00	28.00	99.00	99.00
9	8	16	14	15.0	1	326.0	0.50	29.00	99.00	99.00
9	8	16	15	15.0	1	354.0	1.00	29.60	99.00	99.00
9	8	16	16	15.0	1	5.0	2.10	29.80	99.00	99.00
9	8	16	17	15.0	1	13.0	2.10	29.40	99.00	99.00
9	8	16	18	15.0	1	7.0	2.60	28.90	99.00	99.00
9	8	16	19	15.0	1	15.0	2.60	27.60	99.00	99.00
9	8	16	20	15.0	1	352.0	1.50	26.10	99.00	99.00
9	8	16	21	15.0	1	269.0	2.60	24.60	99.00	99.00
9	8	16	22	15.0	1	282.0	4.10	22.40	99.00	99.00
9	8	16	23	15.0	1	284.0	3.10	21.10	99.00	99.00
9	8	16	24	15.0	1	267.0	2.60	20.50	99.00	99.00
9	8	17	1	15.0	1	248.0	0.50	20.10	99.00	99.00
9	8	17	2	15.0	1	243.0	0.50	19.60	99.00	99.00
9	8	17	3	15.0	1	260.0	0.50	18.90	99.00	99.00
9	8	17	4	15.0	1	286.0	1.00	18.10	99.00	99.00
9	8	17	5	15.0	1	298.0	1.50	17.60	99.00	99.00
9	8	17	6	15.0	1	307.0	1.50	17.30	99.00	99.00
9	8	17	7	15.0	1	344.0	2.10	18.40	99.00	99.00

9	8	17	8	15.0	1	329.0	1.00	20.10	99.00	99.00
9	8	17	9	15.0	1	0.0	0.00	22.60	99.00	99.00
9	8	17	10	15.0	1	0.0	0.00	24.60	99.00	99.00
9	8	17	11	15.0	1	0.0	0.00	26.60	99.00	99.00
9	8	17	12	15.0	1	0.0	0.00	28.40	99.00	99.00
9	8	17	13	15.0	1	0.0	0.00	29.90	99.00	99.00
9	8	17	14	15.0	1	339.0	0.50	30.90	99.00	99.00
9	8	17	15	15.0	1	5.0	1.00	31.40	99.00	99.00
9	8	17	16	15.0	1	0.0	0.00	31.60	99.00	99.00
9	8	17	17	15.0	1	0.0	0.00	31.10	99.00	99.00
9	8	17	18	15.0	1	12.0	2.60	30.40	99.00	99.00
9	8	17	19	15.0	1	8.0	3.10	29.00	99.00	99.00
9	8	17	20	15.0	1	341.0	2.10	27.60	99.00	99.00
9	8	17	21	15.0	1	279.0	4.60	25.40	99.00	99.00
9	8	17	22	15.0	1	292.0	4.10	22.30	99.00	99.00
9	8	17	23	15.0	1	297.0	3.10	21.40	99.00	99.00
9	8	17	24	15.0	1	287.0	2.10	21.10	99.00	99.00
9	8	18	1	15.0	1	238.0	1.50	20.90	99.00	99.00
9	8	18	2	15.0	1	235.0	1.50	20.60	99.00	99.00
9	8	18	3	15.0	1	264.0	2.10	20.30	99.00	99.00
9	8	18	4	15.0	1	268.0	1.50	19.80	99.00	99.00
9	8	18	5	15.0	1	291.0	1.50	19.30	99.00	99.00
9	8	18	6	15.0	1	310.0	0.50	18.90	99.00	99.00
9	8	18	7	15.0	1	342.0	1.50	19.60	99.00	99.00
9	8	18	8	15.0	1	324.0	1.00	21.50	99.00	99.00
9	8	18	9	15.0	1	274.0	0.50	23.90	99.00	99.00
9	8	18	10	15.0	1	273.0	0.50	26.00	99.00	99.00
9	8	18	11	15.0	1	0.0	0.00	28.00	99.00	99.00
9	8	18	12	15.0	1	0.0	0.00	30.00	99.00	99.00
9	8	18	13	15.0	1	0.0	0.00	31.50	99.00	99.00
9	8	18	14	15.0	1	0.0	0.00	32.50	99.00	99.00
9	8	18	15	15.0	1	21.0	1.00	33.10	99.00	99.00
9	8	18	16	15.0	1	21.0	2.10	33.30	99.00	99.00
9	8	18	17	15.0	1	24.0	2.60	32.40	99.00	99.00
9	8	18	18	15.0	1	33.0	3.60	31.40	99.00	99.00
9	8	18	19	15.0	1	358.0	3.10	30.30	99.00	99.00
9	8	18	20	15.0	1	295.0	5.10	27.80	99.00	99.00
9	8	18	21	15.0	1	280.0	4.60	24.10	99.00	99.00
9	8	18	22	15.0	1	285.0	4.10	22.90	99.00	99.00
9	8	18	23	15.0	1	293.0	3.60	21.80	99.00	99.00
9	8	18	24	15.0	1	334.0	2.60	21.10	99.00	99.00
9	8	19	1	15.0	1	360.0	2.60	20.60	99.00	99.00
9	8	19	2	15.0	1	331.0	2.10	20.40	99.00	99.00
9	8	19	3	15.0	1	305.0	2.10	20.10	99.00	99.00
9	8	19	4	15.0	1	301.0	2.10	19.90	99.00	99.00
9	8	19	5	15.0	1	310.0	1.50	19.60	99.00	99.00
9	8	19	6	15.0	1	322.0	1.00	19.30	99.00	99.00
9	8	19	7	15.0	1	341.0	1.50	20.50	99.00	99.00
9	8	19	8	15.0	1	345.0	1.00	22.10	99.00	99.00
9	8	19	9	15.0	1	0.0	0.00	23.90	99.00	99.00
9	8	19	10	15.0	1	0.0	0.00	25.60	99.00	99.00
9	8	19	11	15.0	1	0.0	0.00	27.60	99.00	99.00
9	8	19	12	15.0	1	0.0	0.00	29.60	99.00	99.00
9	8	19	13	15.0	1	0.0	0.00	31.30	99.00	99.00
9	8	19	14	15.0	1	0.0	0.00	32.50	99.00	99.00
9	8	19	15	15.0	1	22.0	0.50	33.10	99.00	99.00
9	8	19	16	15.0	1	23.0	1.50	33.40	99.00	99.00
9	8	19	17	15.0	1	18.0	2.10	32.90	99.00	99.00
9	8	19	18	15.0	1	349.0	3.10	32.40	99.00	99.00
9	8	19	19	15.0	1	305.0	5.10	29.10	99.00	99.00
9	8	19	20	15.0	1	277.0	4.60	24.90	99.00	99.00
9	8	19	21	15.0	1	283.0	4.60	22.60	99.00	99.00
9	8	19	22	15.0	1	289.0	3.60	21.50	99.00	99.00
9	8	19	23	15.0	1	316.0	3.10	20.60	99.00	99.00
9	8	19	24	15.0	1	352.0	3.10	20.10	99.00	99.00
9	8	20	1	15.0	1	359.0	3.60	19.50	99.00	99.00
9	8	20	2	15.0	1	4.0	3.60	18.90	99.00	99.00
9	8	20	3	15.0	1	0.0	0.00	18.40	99.00	99.00
9	8	20	4	15.0	1	7.0	3.10	18.00	99.00	99.00
9	8	20	5	15.0	1	31.0	2.60	17.60	99.00	99.00
9	8	20	6	15.0	1	38.0	2.60	17.50	99.00	99.00
9	8	20	7	15.0	1	26.0	1.00	19.00	99.00	99.00
9	8	20	8	15.0	1	0.0	0.00	20.90	99.00	99.00
9	8	20	9	15.0	1	0.0	0.00	23.10	99.00	99.00
9	8	20	10	15.0	1	0.0	0.00	25.10	99.00	99.00
9	8	20	11	15.0	1	0.0	0.00	27.00	99.00	99.00
9	8	20	12	15.0	1	0.0	0.00	29.00	99.00	99.00

9	8	20	13	15.0	1	319.0	0.50	30.60	99.00	99.00
9	8	20	14	15.0	1	336.0	0.50	31.90	99.00	99.00
9	8	20	15	15.0	1	0.0	0.00	32.60	99.00	99.00
9	8	20	16	15.0	1	8.0	2.60	32.90	99.00	99.00
9	8	20	17	15.0	1	22.0	2.60	32.10	99.00	99.00
9	8	20	18	15.0	1	357.0	3.60	31.40	99.00	99.00
9	8	20	19	15.0	1	307.0	5.10	28.50	99.00	99.00
9	8	20	20	15.0	1	279.0	5.70	24.10	99.00	99.00
9	8	20	21	15.0	1	286.0	5.10	22.10	99.00	99.00
9	8	20	22	15.0	1	295.0	4.10	20.90	99.00	99.00
9	8	20	23	15.0	1	315.0	3.60	20.10	99.00	99.00
9	8	20	24	15.0	1	331.0	3.10	19.50	99.00	99.00
9	8	21	1	15.0	1	15.0	3.10	19.10	99.00	99.00
9	8	21	2	15.0	1	29.0	3.10	18.80	99.00	99.00
9	8	21	3	15.0	1	40.0	1.50	18.60	99.00	99.00
9	8	21	4	15.0	1	61.0	0.50	18.60	99.00	99.00
9	8	21	5	15.0	1	106.0	0.50	18.40	99.00	99.00
9	8	21	6	15.0	1	95.0	0.50	18.30	99.00	99.00
9	8	21	7	15.0	1	91.0	0.50	18.50	99.00	99.00
9	8	21	8	15.0	1	0.0	0.00	20.50	99.00	99.00
9	8	21	9	15.0	1	0.0	0.00	22.10	99.00	99.00
9	8	21	10	15.0	1	0.0	0.00	24.10	99.00	99.00
9	8	21	11	15.0	1	0.0	0.00	26.40	99.00	99.00
9	8	21	12	15.0	1	0.0	0.00	28.00	99.00	99.00
9	8	21	13	15.0	1	0.0	0.00	29.60	99.00	99.00
9	8	21	14	15.0	1	0.0	0.00	31.00	99.00	99.00
9	8	21	15	15.0	1	23.0	0.50	32.00	99.00	99.00
9	8	21	16	15.0	1	25.0	1.00	32.50	99.00	99.00
9	8	21	17	15.0	1	348.0	1.00	32.50	99.00	99.00
9	8	21	18	15.0	1	294.0	3.10	31.90	99.00	99.00
9	8	21	19	15.0	1	270.0	4.60	27.80	99.00	99.00
9	8	21	20	15.0	1	267.0	3.60	25.50	99.00	99.00
9	8	21	21	15.0	1	315.0	2.60	25.00	99.00	99.00
9	8	21	22	15.0	1	334.0	3.10	24.30	99.00	99.00
9	8	21	23	15.0	1	347.0	3.10	23.50	99.00	99.00
9	8	21	24	15.0	1	351.0	3.10	22.60	99.00	99.00
9	8	22	1	15.0	1	346.0	3.10	22.00	99.00	99.00
9	8	22	2	15.0	1	13.0	2.10	21.60	99.00	99.00
9	8	22	3	15.0	1	34.0	1.50	21.50	99.00	99.00
9	8	22	4	15.0	1	42.0	1.50	21.40	99.00	99.00
9	8	22	5	15.0	1	37.0	1.50	21.10	99.00	99.00
9	8	22	6	15.0	1	26.0	1.50	21.10	99.00	99.00
9	8	22	7	15.0	1	33.0	1.50	20.90	99.00	99.00
9	8	22	8	15.0	1	348.0	1.00	21.80	99.00	99.00
9	8	22	9	15.0	1	23.0	0.50	23.10	99.00	99.00
9	8	22	10	15.0	1	85.0	0.50	25.30	99.00	99.00
9	8	22	11	15.0	1	121.0	0.50	27.60	99.00	99.00
9	8	22	12	15.0	1	131.0	0.50	29.40	99.00	99.00
9	8	22	13	15.0	1	108.0	0.50	30.80	99.00	99.00
9	8	22	14	15.0	1	112.0	1.50	31.60	99.00	99.00
9	8	22	15	15.0	1	125.0	2.10	31.60	99.00	99.00
9	8	22	16	15.0	1	145.0	3.60	31.30	99.00	99.00
9	8	22	17	15.0	1	164.0	3.60	30.60	99.00	99.00
9	8	22	18	15.0	1	157.0	4.60	28.10	99.00	99.00
9	8	22	19	15.0	1	141.0	4.60	26.10	99.00	99.00
9	8	22	20	15.0	1	143.0	3.10	25.40	99.00	99.00
9	8	22	21	15.0	1	161.0	3.10	25.10	99.00	99.00
9	8	22	22	15.0	1	176.0	3.10	24.80	99.00	99.00
9	8	22	23	15.0	1	186.0	3.10	24.60	99.00	99.00
9	8	22	24	15.0	1	234.0	2.60	24.60	99.00	99.00
9	8	23	1	15.0	1	279.0	3.10	24.60	99.00	99.00
9	8	23	2	15.0	1	289.0	4.10	24.30	99.00	99.00
9	8	23	3	15.0	1	284.0	4.60	23.40	99.00	99.00
9	8	23	4	15.0	1	281.0	5.70	21.80	99.00	99.00
9	8	23	5	15.0	1	289.0	4.10	20.60	99.00	99.00
9	8	23	6	15.0	1	322.0	1.50	20.10	99.00	99.00
9	8	23	7	15.0	1	83.0	2.60	20.10	99.00	99.00
9	8	23	8	15.0	1	102.0	3.10	20.50	99.00	99.00
9	8	23	9	15.0	1	86.0	3.10	21.40	99.00	99.00
9	8	23	10	15.0	1	92.0	1.50	22.50	99.00	99.00
9	8	23	11	15.0	1	85.0	2.10	23.90	99.00	99.00
9	8	23	12	15.0	1	67.0	2.10	25.30	99.00	99.00
9	8	23	13	15.0	1	38.0	1.50	26.40	99.00	99.00
9	8	23	14	15.0	1	331.0	1.50	27.30	99.00	99.00
9	8	23	15	15.0	1	318.0	2.60	27.80	99.00	99.00
9	8	23	16	15.0	1	34.0	1.00	27.10	99.00	99.00
9	8	23	17	15.0	1	48.0	0.50	27.40	99.00	99.00

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 9   8 23 18     15.0 1     62.0      0.50     27.40     99.00     99.00
 9   8 23 19     15.0 1      0.0      0.00     26.50     99.00     99.00
 9   8 23 20     15.0 1    240.0      0.50     25.30     99.00     99.00
 9   8 23 21     15.0 1    242.0      1.50     24.40     99.00     99.00
 9   8 23 22     15.0 1    265.0      2.10     23.60     99.00     99.00
 9   8 23 23     15.0 1    278.0      3.10     22.60     99.00     99.00
 9   8 23 24     15.0 1    295.0      3.60     21.40     99.00     99.00
 9   8 24  1     15.0 1    284.0      3.60     20.30     99.00     99.00
 9   8 24  2     15.0 1    295.0      3.10     19.50     99.00     99.00
 9   8 24  3     15.0 1    319.0      2.10     19.10     99.00     99.00
 9   8 24  4     15.0 1    327.0      2.10     19.00     99.00     99.00
 9   8 24  5     15.0 1    304.0      2.60     18.60     99.00     99.00
 9   8 24  6     15.0 1    302.0      3.10     18.10     99.00     99.00
 9   8 24  7     15.0 1    327.0      3.10     18.60     99.00     99.00
 9   8 24  8     15.0 1    340.0      1.50     20.10     99.00     99.00
 9   8 24  9     15.0 1      0.0      0.00     22.50     99.00     99.00
 9   8 24 10     15.0 1      0.0      0.00     24.50     99.00     99.00
 9   8 24 11     15.0 1      0.0      0.00     26.30     99.00     99.00
 9   8 24 12     15.0 1      0.0      0.00     28.00     99.00     99.00
 9   8 24 13     15.0 1    319.0      0.50     29.30     99.00     99.00
 9   8 24 14     15.0 1    337.0      1.00     30.10     99.00     99.00
 9   8 24 15     15.0 1    350.0      1.50     30.60     99.00     99.00
 9   8 24 16     15.0 1    349.0      2.60     30.60     99.00     99.00
 9   8 24 17     15.0 1    360.0      2.60     30.30     99.00     99.00
 9   8 24 18     15.0 1      5.0      3.10     29.50     99.00     99.00
 9   8 24 19     15.0 1      4.0      3.60     28.30     99.00     99.00
 9   8 24 20     15.0 1    336.0      2.60     27.40     99.00     99.00
 9   8 24 21     15.0 1    289.0      4.10     25.80     99.00     99.00
 9   8 24 22     15.0 1    279.0      4.60     22.40     99.00     99.00
 9   8 24 23     15.0 1    278.0      4.10     21.10     99.00     99.00
 9   8 24 24     15.0 1    286.0      3.10     20.60     99.00     99.00
 9   8 25  1     15.0 1    310.0      3.10     20.50     99.00     99.00
 9   8 25  2     15.0 1    332.0      2.60     20.40     99.00     99.00
 9   8 25  3     15.0 1    336.0      2.10     20.00     99.00     99.00
 9   8 25  4     15.0 1    346.0      1.50     19.40     99.00     99.00
 9   8 25  5     15.0 1    358.0      1.00     18.90     99.00     99.00
 9   8 25  6     15.0 1    355.0      1.00     18.40     99.00     99.00
 9   8 25  7     15.0 1    350.0      2.10     18.80     99.00     99.00
 9   8 25  8     15.0 1    354.0      1.00     20.10     99.00     99.00
 9   8 25  9     15.0 1      0.0      0.00     22.50     99.00     99.00
 9   8 25 10     15.0 1      0.0      0.00     24.40     99.00     99.00
 9   8 25 11     15.0 1      0.0      0.00     26.40     99.00     99.00
 9   8 25 12     15.0 1      0.0      0.00     28.00     99.00     99.00
 9   8 25 13     15.0 1      0.0      0.00     29.40     99.00     99.00
 9   8 25 14     15.0 1    327.0      0.50     30.40     99.00     99.00
 9   8 25 15     15.0 1    355.0      1.50     31.00     99.00     99.00
 9   8 25 16     15.0 1      3.0      2.10     31.10     99.00     99.00
 9   8 25 17     15.0 1      0.0      0.00     30.80     99.00     99.00
 9   8 25 18     15.0 1      6.0      3.10     30.00     99.00     99.00
 9   8 25 19     15.0 1      0.0      0.00     28.90     99.00     99.00
 9   8 25 20     15.0 1    287.0      4.10     27.60     99.00     99.00
 9   8 25 21     15.0 1    281.0      4.60     23.60     99.00     99.00
 9   8 25 22     15.0 1    278.0      4.10     21.90     99.00     99.00
 9   8 25 23     15.0 1    288.0      3.60     21.10     99.00     99.00
 9   8 25 24     15.0 1    303.0      3.10     20.40     99.00     99.00
 9   8 26  1     15.0 1    343.0      2.60     19.90     99.00     99.00
 9   8 26  2     15.0 1      0.0      0.00     19.30     99.00     99.00
 9   8 26  3     15.0 1      2.0      2.60     19.00     99.00     99.00
 9   8 26  4     15.0 1    350.0      1.50     18.90     99.00     99.00
 9   8 26  5     15.0 1    338.0      1.50     18.60     99.00     99.00
 9   8 26  6     15.0 1    347.0      1.00     18.10     99.00     99.00
 9   8 26  7     15.0 1    351.0      1.50     18.80     99.00     99.00
 9   8 26  8     15.0 1    344.0      0.50     20.30     99.00     99.00
 9   8 26  9     15.0 1      0.0      0.00     22.60     99.00     99.00
 9   8 26 10     15.0 1      0.0      0.00     24.50     99.00     99.00
 9   8 26 11     15.0 1      0.0      0.00     26.60     99.00     99.00
 9   8 26 12     15.0 1      0.0      0.00     28.40     99.00     99.00
 9   8 26 13     15.0 1    318.0      0.50     29.80     99.00     99.00
 9   8 26 14     15.0 1    322.0      1.00     30.90     99.00     99.00
 9   8 26 15     15.0 1    338.0      1.50     31.50     99.00     99.00
 9   8 26 16     15.0 1    356.0      2.60     31.40     99.00     99.00
 9   8 26 17     15.0 1     14.0      2.60     30.60     99.00     99.00
 9   8 26 18     15.0 1      6.0      3.60     29.30     99.00     99.00
 9   8 26 19     15.0 1    356.0      2.10     28.30     99.00     99.00
 9   8 26 20     15.0 1    295.0      3.60     27.40     99.00     99.00
 9   8 26 21     15.0 1    281.0      4.10     24.50     99.00     99.00
 9   8 26 22     15.0 1    294.0      3.60     23.00     99.00     99.00
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 9   8 26 23     15.0 1   290.0      3.10     22.10     99.00     99.00
 9   8 26 24     15.0 1   304.0      2.60     21.60     99.00     99.00
 9   8 27  1     15.0 1   345.0      2.10     21.10     99.00     99.00
 9   8 27  2     15.0 1   351.0      1.50     20.80     99.00     99.00
 9   8 27  3     15.0 1   322.0      1.00     20.10     99.00     99.00
 9   8 27  4     15.0 1   294.0      1.00     19.60     99.00     99.00
 9   8 27  5     15.0 1   301.0      1.00     19.00     99.00     99.00
 9   8 27  6     15.0 1   309.0      0.50     18.50     99.00     99.00
 9   8 27  7     15.0 1   315.0      0.50     18.40     99.00     99.00
 9   8 27  8     15.0 1   340.0      0.50     19.80     99.00     99.00
 9   8 27  9     15.0 1     0.0      0.00     21.80     99.00     99.00
 9   8 27 10     15.0 1     0.0      0.00     24.30     99.00     99.00
 9   8 27 11     15.0 1     0.0      0.00     26.10     99.00     99.00
 9   8 27 12     15.0 1     0.0      0.00     27.80     99.00     99.00
 9   8 27 13     15.0 1     0.0      0.00     29.10     99.00     99.00
 9   8 27 14     15.0 1     0.0      0.00     30.10     99.00     99.00
 9   8 27 15     15.0 1     6.0      1.50     30.50     99.00     99.00
 9   8 27 16     15.0 1    20.0      2.10     30.40     99.00     99.00
 9   8 27 17     15.0 1    32.0      2.10     29.90     99.00     99.00
 9   8 27 18     15.0 1    29.0      2.10     28.90     99.00     99.00
 9   8 27 19     15.0 1    32.0      1.00     27.60     99.00     99.00
 9   8 27 20     15.0 1     0.0      0.00     26.40     99.00     99.00
 9   8 27 21     15.0 1     0.0      0.00     25.30     99.00     99.00
 9   8 27 22     15.0 1     0.0      0.00     24.40     99.00     99.00
 9   8 27 23     15.0 1    21.0      0.50     23.60     99.00     99.00
 9   8 27 24     15.0 1     0.0      0.00     23.00     99.00     99.00
 9   8 28  1     15.0 1   356.0      0.50     22.60     99.00     99.00
 9   8 28  2     15.0 1     0.0      0.00     22.10     99.00     99.00
 9   8 28  3     15.0 1   351.0      0.50     21.90     99.00     99.00
 9   8 28  4     15.0 1   334.0      1.00     21.60     99.00     99.00
 9   8 28  5     15.0 1   331.0      1.00     21.10     99.00     99.00
 9   8 28  6     15.0 1   327.0      1.00     20.90     99.00     99.00
 9   8 28  7     15.0 1   325.0      0.50     20.60     99.00     99.00
 9   8 28  8     15.0 1   341.0      1.00     22.00     99.00     99.00
 9   8 28  9     15.0 1     0.0      0.00     24.00     99.00     99.00
 9   8 28 10     15.0 1     0.0      0.00     26.30     99.00     99.00
 9   8 28 11     15.0 1     0.0      0.00     28.00     99.00     99.00
 9   8 28 12     15.0 1     0.0      0.00     29.60     99.00     99.00
 9   8 28 13     15.0 1   338.0      0.50     31.10     99.00     99.00
 9   8 28 14     15.0 1   354.0      1.00     31.90     99.00     99.00
 9   8 28 15     15.0 1     4.0      2.10     32.10     99.00     99.00
 9   8 28 16     15.0 1    12.0      2.60     32.10     99.00     99.00
 9   8 28 17     15.0 1     9.0      2.10     31.60     99.00     99.00
 9   8 28 18     15.0 1   359.0      2.10     30.60     99.00     99.00
 9   8 28 19     15.0 1   314.0      1.00     29.10     99.00     99.00
 9   8 28 20     15.0 1   278.0      1.00     27.90     99.00     99.00
 9   8 28 21     15.0 1   300.0      1.00     26.80     99.00     99.00
 9   8 28 22     15.0 1   342.0      1.00     25.90     99.00     99.00
 9   8 28 23     15.0 1     0.0      0.00     25.10     99.00     99.00
 9   8 28 24     15.0 1     6.0      1.00     24.40     99.00     99.00
 9   8 29  1     15.0 1   343.0      0.50     23.60     99.00     99.00
 9   8 29  2     15.0 1   323.0      1.00     23.10     99.00     99.00
 9   8 29  3     15.0 1   293.0      1.00     22.40     99.00     99.00
 9   8 29  4     15.0 1   294.0      1.00     21.60     99.00     99.00
 9   8 29  5     15.0 1   277.0      1.00     21.10     99.00     99.00
 9   8 29  6     15.0 1   290.0      0.50     20.40     99.00     99.00
 9   8 29  7     15.0 1     0.0      0.00     20.80     99.00     99.00
 9   8 29  8     15.0 1     0.0      0.00     23.60     99.00     99.00
 9   8 29  9     15.0 1     0.0      0.00     25.90     99.00     99.00
 9   8 29 10     15.0 1     0.0      0.00     28.00     99.00     99.00
 9   8 29 11     15.0 1     0.0      0.00     29.60     99.00     99.00
 9   8 29 12     15.0 1     0.0      0.00     31.40     99.00     99.00
 9   8 29 13     15.0 1     0.0      0.00     32.80     99.00     99.00
 9   8 29 14     15.0 1   317.0      0.50     33.90     99.00     99.00
 9   8 29 15     15.0 1    11.0      1.00     34.80     99.00     99.00
 9   8 29 16     15.0 1    16.0      1.50     35.00     99.00     99.00
 9   8 29 17     15.0 1    19.0      1.50     34.30     99.00     99.00
 9   8 29 18     15.0 1    23.0      1.50     33.40     99.00     99.00
 9   8 29 19     15.0 1     0.0      0.00     31.50     99.00     99.00
 9   8 29 20     15.0 1   264.0      0.50     29.80     99.00     99.00
 9   8 29 21     15.0 1   278.0      2.60     28.90     99.00     99.00
 9   8 29 22     15.0 1   293.0      4.10     26.80     99.00     99.00
 9   8 29 23     15.0 1   292.0      3.60     24.90     99.00     99.00
 9   8 29 24     15.0 1   295.0      3.60     23.90     99.00     99.00
 9   8 30  1     15.0 1   289.0      3.60     23.10     99.00     99.00
 9   8 30  2     15.0 1   299.0      3.10     22.80     99.00     99.00
 9   8 30  3     15.0 1   298.0      2.60     22.50     99.00     99.00
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 9   8 30   4     15.0 1   286.0      1.50     22.00     99.00     99.00
 9   8 30   5     15.0 1   299.0      1.00     21.50     99.00     99.00
 9   8 30   6     15.0 1   318.0      0.50     21.00     99.00     99.00
 9   8 30   7     15.0 1   340.0      1.00     21.40     99.00     99.00
 9   8 30   8     15.0 1   337.0      0.50     23.10     99.00     99.00
 9   8 30   9     15.0 1     0.0      0.00     25.40     99.00     99.00
 9   8 30  10     15.0 1     0.0      0.00     27.40     99.00     99.00
 9   8 30  11     15.0 1     0.0      0.00     29.10     99.00     99.00
 9   8 30  12     15.0 1     0.0      0.00     31.00     99.00     99.00
 9   8 30  13     15.0 1   342.0      0.50     32.50     99.00     99.00
 9   8 30  14     15.0 1    12.0      1.00     33.50     99.00     99.00
 9   8 30  15     15.0 1    17.0      1.50     34.10     99.00     99.00
 9   8 30  16     15.0 1    27.0      2.10     34.10     99.00     99.00
 9   8 30  17     15.0 1    24.0      2.10     33.60     99.00     99.00
 9   8 30  18     15.0 1   357.0      3.10     33.00     99.00     99.00
 9   8 30  19     15.0 1   332.0      3.10     31.60     99.00     99.00
 9   8 30  20     15.0 1   290.0      5.10     29.10     99.00     99.00
 9   8 30  21     15.0 1   268.0      4.60     25.60     99.00     99.00
 9   8 30  22     15.0 1   269.0      4.10     24.10     99.00     99.00
 9   8 30  23     15.0 1   267.0      3.60     23.10     99.00     99.00
 9   8 30  24     15.0 1   288.0      2.60     22.50     99.00     99.00
 9   8 31   1     15.0 1   318.0      2.60     22.10     99.00     99.00
 9   8 31   2     15.0 1   313.0      3.10     21.80     99.00     99.00
 9   8 31   3     15.0 1   314.0      3.10     21.30     99.00     99.00
 9   8 31   4     15.0 1   321.0      2.60     20.80     99.00     99.00
 9   8 31   5     15.0 1   328.0      2.10     20.30     99.00     99.00
 9   8 31   6     15.0 1   343.0      1.50     19.80     99.00     99.00
 9   8 31   7     15.0 1   352.0      2.10     20.10     99.00     99.00
 9   8 31   8     15.0 1   355.0      1.00     21.60     99.00     99.00
 9   8 31   9     15.0 1     0.0      0.00     23.90     99.00     99.00
 9   8 31  10     15.0 1     0.0      0.00     25.90     99.00     99.00
 9   8 31  11     15.0 1     0.0      0.00     27.80     99.00     99.00
 9   8 31  12     15.0 1   302.0      0.50     29.50     99.00     99.00
 9   8 31  13     15.0 1   328.0      0.50     31.00     99.00     99.00
 9   8 31  14     15.0 1   350.0      1.50     32.10     99.00     99.00
 9   8 31  15     15.0 1     4.0      2.10     32.90     99.00     99.00
 9   8 31  16     15.0 1     6.0      2.60     33.00     99.00     99.00
 9   8 31  17     15.0 1     8.0      2.10     32.30     99.00     99.00
 9   8 31  18     15.0 1     7.0      2.60     31.60     99.00     99.00
 9   8 31  19     15.0 1     5.0      2.10     30.10     99.00     99.00
 9   8 31  20     15.0 1   301.0      1.00     28.90     99.00     99.00
 9   8 31  21     15.0 1   295.0      3.60     27.60     99.00     99.00
 9   8 31  22     15.0 1   296.0      4.10     25.30     99.00     99.00
 9   8 31  23     15.0 1   306.0      3.60     24.00     99.00     99.00
 9   8 31  24     15.0 1   320.0      4.10     22.90     99.00     99.00
 9   9  1   1     15.0 1   340.0      4.10     21.30     99.00     99.00
 9   9  1   2     15.0 1   344.0      3.10     20.30     99.00     99.00
 9   9  1   3     15.0 1   328.0      2.60     19.60     99.00     99.00
 9   9  1   4     15.0 1   308.0      2.10     19.10     99.00     99.00
 9   9  1   5     15.0 1   314.0      2.10     18.60     99.00     99.00
 9   9  1   6     15.0 1   298.0      1.00     18.40     99.00     99.00
 9   9  1   7     15.0 1   344.0      1.50     18.60     99.00     99.00
 9   9  1   8     15.0 1   336.0      0.50     20.10     99.00     99.00
 9   9  1   9     15.0 1     0.0      0.00     22.60     99.00     99.00
 9   9  1  10     15.0 1     0.0      0.00     24.90     99.00     99.00
 9   9  1  11     15.0 1     0.0      0.00     26.90     99.00     99.00
 9   9  1  12     15.0 1     0.0      0.00     28.90     99.00     99.00
 9   9  1  13     15.0 1     0.0      0.00     30.60     99.00     99.00
 9   9  1  14     15.0 1   333.0      1.00     31.80     99.00     99.00
 9   9  1  15     15.0 1   348.0      1.50     32.30     99.00     99.00
 9   9  1  16     15.0 1   348.0      2.60     32.40     99.00     99.00
 9   9  1  17     15.0 1   358.0      2.60     31.80     99.00     99.00
 9   9  1  18     15.0 1     0.0      0.00     31.00     99.00     99.00
 9   9  1  19     15.0 1     2.0      2.60     29.60     99.00     99.00
 9   9  1  20     15.0 1   324.0      1.00     28.60     99.00     99.00
 9   9  1  21     15.0 1   279.0      0.50     27.50     99.00     99.00
 9   9  1  22     15.0 1   303.0      0.50     26.60     99.00     99.00
 9   9  1  23     15.0 1   342.0      1.00     25.90     99.00     99.00
 9   9  1  24     15.0 1   336.0      2.10     25.30     99.00     99.00
 9   9  2   1     15.0 1   336.0      2.60     24.60     99.00     99.00
 9   9  2   2     15.0 1   330.0      3.10     24.10     99.00     99.00
 9   9  2   3     15.0 1   320.0      2.60     23.50     99.00     99.00
 9   9  2   4     15.0 1   306.0      2.10     23.00     99.00     99.00
 9   9  2   5     15.0 1   304.0      2.10     22.50     99.00     99.00
 9   9  2   6     15.0 1   300.0      1.50     22.10     99.00     99.00
 9   9  2   7     15.0 1   315.0      1.50     22.40     99.00     99.00
 9   9  2   8     15.0 1   320.0      1.50     24.10     99.00     99.00
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 9  9  2  9    15.0 1   304.0     0.50    26.10    99.00    99.00
 9  9  2 10    15.0 1     0.0     0.00    28.80    99.00    99.00
 9  9  2 11    15.0 1     0.0     0.00    30.60    99.00    99.00
 9  9  2 12    15.0 1     0.0     0.00    32.10    99.00    99.00
 9  9  2 13    15.0 1     0.0     0.00    33.60    99.00    99.00
 9  9  2 14    15.0 1     4.0     0.50    34.60    99.00    99.00
 9  9  2 15    15.0 1    14.0     2.10    35.10    99.00    99.00
 9  9  2 16    15.0 1    22.0     3.10    34.40    99.00    99.00
 9  9  2 17    15.0 1    13.0     3.10    33.50    99.00    99.00
 9  9  2 18    15.0 1     0.0     0.00    32.60    99.00    99.00
 9  9  2 19    15.0 1   328.0     2.60    31.60    99.00    99.00
 9  9  2 20    15.0 1   276.0     3.10    30.50    99.00    99.00
 9  9  2 21    15.0 1   266.0     4.60    29.10    99.00    99.00
 9  9  2 22    15.0 1   289.0     3.60    27.40    99.00    99.00
 9  9  2 23    15.0 1   315.0     3.60    26.60    99.00    99.00
 9  9  2 24    15.0 1   297.0     3.60    25.80    99.00    99.00
 9  9  3  1    15.0 1   296.0     3.10    25.10    99.00    99.00
 9  9  3  2    15.0 1   298.0     2.60    24.40    99.00    99.00
 9  9  3  3    15.0 1   300.0     2.10    23.60    99.00    99.00
 9  9  3  4    15.0 1   289.0     2.10    23.10    99.00    99.00
 9  9  3  5    15.0 1   281.0     1.00    22.80    99.00    99.00
 9  9  3  6    15.0 1     0.0     0.00    22.30    99.00    99.00
 9  9  3  7    15.0 1   345.0     0.50    22.40    99.00    99.00
 9  9  3  8    15.0 1     0.0     0.00    24.10    99.00    99.00
 9  9  3  9    15.0 1     0.0     0.00    26.30    99.00    99.00
 9  9  3 10    15.0 1     0.0     0.00    28.30    99.00    99.00
 9  9  3 11    15.0 1     0.0     0.00    30.00    99.00    99.00
 9  9  3 12    15.0 1     0.0     0.00    31.50    99.00    99.00
 9  9  3 13    15.0 1     0.0     0.00    32.90    99.00    99.00
 9  9  3 14    15.0 1   355.0     1.00    33.80    99.00    99.00
 9  9  3 15    15.0 1     0.0     0.00    34.30    99.00    99.00
 9  9  3 16    15.0 1     7.0     3.10    34.10    99.00    99.00
 9  9  3 17    15.0 1     6.0     2.60    33.60    99.00    99.00
 9  9  3 18    15.0 1   356.0     3.10    32.90    99.00    99.00
 9  9  3 19    15.0 1   325.0     3.60    31.60    99.00    99.00
 9  9  3 20    15.0 1   312.0     4.10    30.30    99.00    99.00
 9  9  3 21    15.0 1   322.0     4.10    28.30    99.00    99.00
 9  9  3 22    15.0 1   330.0     3.60    27.10    99.00    99.00
 9  9  3 23    15.0 1   338.0     3.60    26.00    99.00    99.00
 9  9  3 24    15.0 1   353.0     3.60    24.80    99.00    99.00
 9  9  4  1    15.0 1     3.0     3.10    23.90    99.00    99.00
 9  9  4  2    15.0 1    12.0     2.60    23.30    99.00    99.00
 9  9  4  3    15.0 1     2.0     2.10    22.60    99.00    99.00
 9  9  4  4    15.0 1   341.0     1.50    22.10    99.00    99.00
 9  9  4  5    15.0 1   344.0     1.00    21.50    99.00    99.00
 9  9  4  6    15.0 1   347.0     1.00    20.90    99.00    99.00
 9  9  4  7    15.0 1   346.0     2.10    20.80    99.00    99.00
 9  9  4  8    15.0 1   349.0     1.00    21.90    99.00    99.00
 9  9  4  9    15.0 1     0.0     0.00    23.90    99.00    99.00
 9  9  4 10    15.0 1   302.0     0.50    25.50    99.00    99.00
 9  9  4 11    15.0 1   300.0     0.50    27.10    99.00    99.00
 9  9  4 12    15.0 1   309.0     1.00    28.50    99.00    99.00
 9  9  4 13    15.0 1   331.0     2.10    29.60    99.00    99.00
 9  9  4 14    15.0 1   345.0     3.10    30.50    99.00    99.00
 9  9  4 15    15.0 1   355.0     3.60    30.60    99.00    99.00
 9  9  4 16    15.0 1     3.0     4.10    30.50    99.00    99.00
 9  9  4 17    15.0 1     2.0     3.10    29.90    99.00    99.00
 9  9  4 18    15.0 1   354.0     3.60    28.90    99.00    99.00
 9  9  4 19    15.0 1   334.0     3.60    27.30    99.00    99.00
 9  9  4 20    15.0 1   334.0     3.60    25.60    99.00    99.00
 9  9  4 21    15.0 1   331.0     3.60    24.40    99.00    99.00
 9  9  4 22    15.0 1   345.0     3.60    23.10    99.00    99.00
 9  9  4 23    15.0 1   337.0     3.60    21.90    99.00    99.00
 9  9  4 24    15.0 1   337.0     3.60    20.80    99.00    99.00
 9  9  5  1    15.0 1   354.0     3.10    19.90    99.00    99.00
 9  9  5  2    15.0 1   355.0     3.10    19.10    99.00    99.00
 9  9  5  3    15.0 1   348.0     2.60    18.30    99.00    99.00
 9  9  5  4    15.0 1   347.0     2.60    17.60    99.00    99.00
 9  9  5  5    15.0 1   355.0     2.10    17.10    99.00    99.00
 9  9  5  6    15.0 1   353.0     1.50    16.60    99.00    99.00
 9  9  5  7    15.0 1     2.0     2.10    16.80    99.00    99.00
 9  9  5  8    15.0 1   353.0     0.50    18.10    99.00    99.00
 9  9  5  9    15.0 1     0.0     0.00    20.40    99.00    99.00
 9  9  5 10    15.0 1     0.0     0.00    22.10    99.00    99.00
 9  9  5 11    15.0 1     0.0     0.00    24.00    99.00    99.00
 9  9  5 12    15.0 1     0.0     0.00    25.60    99.00    99.00
 9  9  5 13    15.0 1     0.0     0.00    27.00    99.00    99.00
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 9  9  5 14    15.0 1   340.0     1.00    28.00    99.00    99.00
 9  9  5 15    15.0 1     5.0     1.50    28.60    99.00    99.00
 9  9  5 16    15.0 1     0.0     0.00    28.60    99.00    99.00
 9  9  5 17    15.0 1     8.0     3.10    27.80    99.00    99.00
 9  9  5 18    15.0 1    11.0     3.60    26.10    99.00    99.00
 9  9  5 19    15.0 1     0.0     0.00    24.90    99.00    99.00
 9  9  5 20    15.0 1   327.0     3.10    23.90    99.00    99.00
 9  9  5 21    15.0 1   310.0     3.60    22.60    99.00    99.00
 9  9  5 22    15.0 1   286.0     3.60    21.40    99.00    99.00
 9  9  5 23    15.0 1   284.0     3.10    20.50    99.00    99.00
 9  9  5 24    15.0 1   294.0     2.60    20.30    99.00    99.00
 9  9  6  1    15.0 1   311.0     2.10    20.10    99.00    99.00
 9  9  6  2    15.0 1   318.0     2.60    20.00    99.00    99.00
 9  9  6  3    15.0 1   320.0     2.60    19.60    99.00    99.00
 9  9  6  4    15.0 1   332.0     2.10    19.30    99.00    99.00
 9  9  6  5    15.0 1   345.0     1.50    19.00    99.00    99.00
 9  9  6  6    15.0 1   330.0     0.50    18.80    99.00    99.00
 9  9  6  7    15.0 1     0.0     0.00    18.60    99.00    99.00
 9  9  6  8    15.0 1   352.0     1.00    19.90    99.00    99.00
 9  9  6  9    15.0 1   339.0     0.50    21.10    99.00    99.00
 9  9  6 10    15.0 1     0.0     0.00    22.50    99.00    99.00
 9  9  6 11    15.0 1     0.0     0.00    24.00    99.00    99.00
 9  9  6 12    15.0 1     0.0     0.00    25.50    99.00    99.00
 9  9  6 13    15.0 1   338.0     0.50    26.50    99.00    99.00
 9  9  6 14    15.0 1     0.0     0.00    27.10    99.00    99.00
 9  9  6 15    15.0 1     6.0     2.10    27.50    99.00    99.00
 9  9  6 16    15.0 1    22.0     3.60    27.40    99.00    99.00
 9  9  6 17    15.0 1    17.0     3.10    26.90    99.00    99.00
 9  9  6 18    15.0 1    14.0     3.60    25.60    99.00    99.00
 9  9  6 19    15.0 1     0.0     0.00    24.00    99.00    99.00
 9  9  6 20    15.0 1   354.0     3.60    22.80    99.00    99.00
 9  9  6 21    15.0 1   345.0     3.10    21.90    99.00    99.00
 9  9  6 22    15.0 1   341.0     3.10    21.30    99.00    99.00
 9  9  6 23    15.0 1   355.0     2.60    21.00    99.00    99.00
 9  9  6 24    15.0 1   344.0     2.10    20.50    99.00    99.00
 9  9  7  1    15.0 1   338.0     3.10    19.90    99.00    99.00
 9  9  7  2    15.0 1   337.0     3.10    18.90    99.00    99.00
 9  9  7  3    15.0 1   353.0     3.10    18.10    99.00    99.00
 9  9  7  4    15.0 1   352.0     2.60    17.30    99.00    99.00
 9  9  7  5    15.0 1   345.0     2.60    16.60    99.00    99.00
 9  9  7  6    15.0 1   344.0     2.10    16.10    99.00    99.00
 9  9  7  7    15.0 1   343.0     2.60    16.50    99.00    99.00
 9  9  7  8    15.0 1   343.0     1.50    17.90    99.00    99.00
 9  9  7  9    15.0 1     0.0     0.00    19.60    99.00    99.00
 9  9  7 10    15.0 1     0.0     0.00    21.30    99.00    99.00
 9  9  7 11    15.0 1     0.0     0.00    22.90    99.00    99.00
 9  9  7 12    15.0 1     0.0     0.00    24.10    99.00    99.00
 9  9  7 13    15.0 1     0.0     0.00    25.10    99.00    99.00
 9  9  7 14    15.0 1   345.0     0.50    25.90    99.00    99.00
 9  9  7 15    15.0 1   355.0     1.50    26.40    99.00    99.00
 9  9  7 16    15.0 1   355.0     2.60    26.60    99.00    99.00
 9  9  7 17    15.0 1     0.0     0.00    26.40    99.00    99.00
 9  9  7 18    15.0 1     0.0     0.00    25.60    99.00    99.00
 9  9  7 19    15.0 1   358.0     3.60    24.60    99.00    99.00
 9  9  7 20    15.0 1   349.0     3.10    23.60    99.00    99.00
 9  9  7 21    15.0 1   326.0     2.60    22.50    99.00    99.00
 9  9  7 22    15.0 1   305.0     2.10    21.60    99.00    99.00
 9  9  7 23    15.0 1   288.0     2.10    20.80    99.00    99.00
 9  9  7 24    15.0 1   307.0     2.10    19.90    99.00    99.00
 9  9  8  1    15.0 1   329.0     2.60    19.10    99.00    99.00
 9  9  8  2    15.0 1   339.0     3.60    18.30    99.00    99.00
 9  9  8  3    15.0 1   346.0     3.10    17.40    99.00    99.00
 9  9  8  4    15.0 1   357.0     3.10    16.80    99.00    99.00
 9  9  8  5    15.0 1   350.0     2.60    16.40    99.00    99.00
 9  9  8  6    15.0 1   349.0     1.50    16.00    99.00    99.00
 9  9  8  7    15.0 1   346.0     1.50    16.30    99.00    99.00
 9  9  8  8    15.0 1   340.0     1.00    17.90    99.00    99.00
 9  9  8  9    15.0 1     0.0     0.00    20.00    99.00    99.00
 9  9  8 10    15.0 1     0.0     0.00    21.80    99.00    99.00
 9  9  8 11    15.0 1     0.0     0.00    23.90    99.00    99.00
 9  9  8 12    15.0 1     0.0     0.00    25.60    99.00    99.00
 9  9  8 13    15.0 1     0.0     0.00    27.00    99.00    99.00
 9  9  8 14    15.0 1   315.0     0.50    28.00    99.00    99.00
 9  9  8 15    15.0 1   312.0     0.50    28.60    99.00    99.00
 9  9  8 16    15.0 1   339.0     1.00    29.00    99.00    99.00
 9  9  8 17    15.0 1     2.0     2.10    28.60    99.00    99.00
 9  9  8 18    15.0 1     0.0     0.00    27.60    99.00    99.00
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 9  9  8 19    15.0 1   357.0     3.10    26.40    99.00    99.00
 9  9  8 20    15.0 1   290.0     4.10    25.10    99.00    99.00
 9  9  8 21    15.0 1   279.0     4.10    21.90    99.00    99.00
 9  9  8 22    15.0 1   295.0     3.10    20.30    99.00    99.00
 9  9  8 23    15.0 1   292.0     3.10    19.60    99.00    99.00
 9  9  8 24    15.0 1   305.0     3.10    19.00    99.00    99.00
 9  9  9  1    15.0 1   339.0     2.10    18.60    99.00    99.00
 9  9  9  2    15.0 1     9.0     2.60    18.10    99.00    99.00
 9  9  9  3    15.0 1     8.0     2.60    17.60    99.00    99.00
 9  9  9  4    15.0 1     7.0     2.10    17.10    99.00    99.00
 9  9  9  5    15.0 1     0.0     0.00    17.00    99.00    99.00
 9  9  9  6    15.0 1     8.0     0.50    16.60    99.00    99.00
 9  9  9  7    15.0 1     5.0     0.50    17.00    99.00    99.00
 9  9  9  8    15.0 1   302.0     0.50    19.50    99.00    99.00
 9  9  9  9    15.0 1     0.0     0.00    21.50    99.00    99.00
 9  9  9 10    15.0 1     0.0     0.00    23.30    99.00    99.00
 9  9  9 11    15.0 1     0.0     0.00    25.30    99.00    99.00
 9  9  9 12    15.0 1     0.0     0.00    27.30    99.00    99.00
 9  9  9 13    15.0 1     0.0     0.00    28.80    99.00    99.00
 9  9  9 14    15.0 1   315.0     0.50    29.90    99.00    99.00
 9  9  9 15    15.0 1   324.0     0.50    30.50    99.00    99.00
 9  9  9 16    15.0 1   345.0     1.50    30.80    99.00    99.00
 9  9  9 17    15.0 1   351.0     2.10    30.30    99.00    99.00
 9  9  9 18    15.0 1    15.0     3.60    29.30    99.00    99.00
 9  9  9 19    15.0 1    19.0     4.10    27.60    99.00    99.00
 9  9  9 20    15.0 1     9.0     2.10    26.50    99.00    99.00
 9  9  9 21    15.0 1   289.0     3.60    25.10    99.00    99.00
 9  9  9 22    15.0 1   299.0     4.10    23.10    99.00    99.00
 9  9  9 23    15.0 1   313.0     3.60    21.80    99.00    99.00
 9  9  9 24    15.0 1   320.0     3.10    21.00    99.00    99.00
 9  9 10  1    15.0 1   345.0     2.10    20.50    99.00    99.00
 9  9 10  2    15.0 1    29.0     2.10    20.00    99.00    99.00
 9  9 10  3    15.0 1    39.0     2.10    19.50    99.00    99.00
 9  9 10  4    15.0 1    40.0     1.00    19.10    99.00    99.00
 9  9 10  5    15.0 1     0.0     0.00    18.60    99.00    99.00
 9  9 10  6    15.0 1     0.0     0.00    18.00    99.00    99.00
 9  9 10  7    15.0 1     0.0     0.00    18.00    99.00    99.00
 9  9 10  8    15.0 1     0.0     0.00    21.00    99.00    99.00
 9  9 10  9    15.0 1     0.0     0.00    23.00    99.00    99.00
 9  9 10 10    15.0 1     0.0     0.00    25.10    99.00    99.00
 9  9 10 11    15.0 1     0.0     0.00    26.80    99.00    99.00
 9  9 10 12    15.0 1     0.0     0.00    28.60    99.00    99.00
 9  9 10 13    15.0 1     0.0     0.00    30.10    99.00    99.00
 9  9 10 14    15.0 1     0.0     0.00    31.30    99.00    99.00
 9  9 10 15    15.0 1   326.0     0.50    32.00    99.00    99.00
 9  9 10 16    15.0 1     0.0     0.00    32.10    99.00    99.00
 9  9 10 17    15.0 1    20.0     2.10    31.60    99.00    99.00
 9  9 10 18    15.0 1    16.0     3.10    30.50    99.00    99.00
 9  9 10 19    15.0 1    33.0     2.60    28.90    99.00    99.00
 9  9 10 20    15.0 1     0.0     0.00    27.30    99.00    99.00
 9  9 10 21    15.0 1   275.0     2.60    25.80    99.00    99.00
 9  9 10 22    15.0 1   294.0     3.60    24.10    99.00    99.00
 9  9 10 23    15.0 1   300.0     2.60    23.10    99.00    99.00
 9  9 10 24    15.0 1   329.0     1.00    22.50    99.00    99.00
 9  9 11  1    15.0 1    19.0     1.00    21.90    99.00    99.00
 9  9 11  2    15.0 1   348.0     0.50    21.60    99.00    99.00
 9  9 11  3    15.0 1   289.0     0.50    21.00    99.00    99.00
 9  9 11  4    15.0 1   273.0     0.50    20.30    99.00    99.00
 9  9 11  5    15.0 1   295.0     1.00    19.60    99.00    99.00
 9  9 11  6    15.0 1   304.0     1.00    19.10    99.00    99.00
 9  9 11  7    15.0 1   289.0     0.50    19.10    99.00    99.00
 9  9 11  8    15.0 1   308.0     0.50    21.10    99.00    99.00
 9  9 11  9    15.0 1     0.0     0.00    23.30    99.00    99.00
 9  9 11 10    15.0 1     0.0     0.00    25.40    99.00    99.00
 9  9 11 11    15.0 1     0.0     0.00    27.10    99.00    99.00
 9  9 11 12    15.0 1     0.0     0.00    29.00    99.00    99.00
 9  9 11 13    15.0 1     0.0     0.00    30.50    99.00    99.00
 9  9 11 14    15.0 1     0.0     0.00    31.60    99.00    99.00
 9  9 11 15    15.0 1    23.0     1.00    32.30    99.00    99.00
 9  9 11 16    15.0 1    33.0     1.50    32.40    99.00    99.00
 9  9 11 17    15.0 1    42.0     1.50    31.90    99.00    99.00
 9  9 11 18    15.0 1    49.0     1.50    31.10    99.00    99.00
 9  9 11 19    15.0 1     0.0     0.00    29.50    99.00    99.00
 9  9 11 20    15.0 1   266.0     3.10    28.10    99.00    99.00
 9  9 11 21    15.0 1   282.0     4.60    25.10    99.00    99.00
 9  9 11 22    15.0 1   278.0     3.60    23.10    99.00    99.00
 9  9 11 23    15.0 1   291.0     3.10    22.30    99.00    99.00
```

9	9	11	24	15.0	1	315.0	2.10	21.60	99.00	99.00
9	9	12	1	15.0	1	330.0	1.50	21.00	99.00	99.00
9	9	12	2	15.0	1	355.0	1.00	20.30	99.00	99.00
9	9	12	3	15.0	1	293.0	0.50	19.80	99.00	99.00
9	9	12	4	15.0	1	256.0	1.00	19.50	99.00	99.00
9	9	12	5	15.0	1	268.0	1.50	19.10	99.00	99.00
9	9	12	6	15.0	1	276.0	1.50	18.90	99.00	99.00
9	9	12	7	15.0	1	297.0	1.00	19.00	99.00	99.00
9	9	12	8	15.0	1	319.0	1.00	21.00	99.00	99.00
9	9	12	9	15.0	1	0.0	0.00	23.00	99.00	99.00
9	9	12	10	15.0	1	0.0	0.00	24.60	99.00	99.00
9	9	12	11	15.0	1	0.0	0.00	26.50	99.00	99.00
9	9	12	12	15.0	1	0.0	0.00	28.10	99.00	99.00
9	9	12	13	15.0	1	0.0	0.00	29.50	99.00	99.00
9	9	12	14	15.0	1	318.0	0.50	30.60	99.00	99.00
9	9	12	15	15.0	1	353.0	0.50	31.50	99.00	99.00
9	9	12	16	15.0	1	339.0	1.50	31.90	99.00	99.00
9	9	12	17	15.0	1	304.0	3.10	31.30	99.00	99.00
9	9	12	18	15.0	1	284.0	5.10	28.00	99.00	99.00
9	9	12	19	15.0	1	263.0	4.60	24.40	99.00	99.00
9	9	12	20	15.0	1	258.0	4.60	22.10	99.00	99.00
9	9	12	21	15.0	1	259.0	4.60	20.50	99.00	99.00
9	9	12	22	15.0	1	280.0	3.60	19.50	99.00	99.00
9	9	12	23	15.0	1	309.0	1.50	19.10	99.00	99.00
9	9	12	24	15.0	1	327.0	1.00	18.60	99.00	99.00
9	9	13	1	15.0	1	300.0	1.50	18.10	99.00	99.00
9	9	13	2	15.0	1	290.0	2.60	17.50	99.00	99.00
9	9	13	3	15.0	1	286.0	3.10	16.80	99.00	99.00
9	9	13	4	15.0	1	287.0	3.10	16.00	99.00	99.00
9	9	13	5	15.0	1	300.0	2.60	15.50	99.00	99.00
9	9	13	6	15.0	1	297.0	1.50	15.10	99.00	99.00
9	9	13	7	15.0	1	295.0	2.10	15.60	99.00	99.00
9	9	13	8	15.0	1	301.0	1.50	17.10	99.00	99.00
9	9	13	9	15.0	1	0.0	0.00	19.30	99.00	99.00
9	9	13	10	15.0	1	0.0	0.00	21.00	99.00	99.00
9	9	13	11	15.0	1	0.0	0.00	22.60	99.00	99.00
9	9	13	12	15.0	1	0.0	0.00	24.30	99.00	99.00
9	9	13	13	15.0	1	315.0	0.50	25.60	99.00	99.00
9	9	13	14	15.0	1	344.0	1.00	26.60	99.00	99.00
9	9	13	15	15.0	1	350.0	1.00	27.10	99.00	99.00
9	9	13	16	15.0	1	0.0	0.00	27.50	99.00	99.00
9	9	13	17	15.0	1	349.0	1.50	27.00	99.00	99.00
9	9	13	18	15.0	1	313.0	3.60	25.90	99.00	99.00
9	9	13	19	15.0	1	289.0	4.60	22.40	99.00	99.00
9	9	13	20	15.0	1	284.0	4.10	19.60	99.00	99.00
9	9	13	21	15.0	1	276.0	3.60	18.30	99.00	99.00
9	9	13	22	15.0	1	288.0	3.10	17.40	99.00	99.00
9	9	13	23	15.0	1	314.0	3.10	16.90	99.00	99.00
9	9	13	24	15.0	1	327.0	2.60	16.40	99.00	99.00
9	9	14	1	15.0	1	6.0	1.50	16.00	99.00	99.00
9	9	14	2	15.0	1	40.0	1.00	15.60	99.00	99.00
9	9	14	3	15.0	1	0.0	0.00	15.60	99.00	99.00
9	9	14	4	15.0	1	167.0	1.00	15.80	99.00	99.00
9	9	14	5	15.0	1	150.0	1.00	16.00	99.00	99.00
9	9	14	6	15.0	1	131.0	1.50	16.10	99.00	99.00
9	9	14	7	15.0	1	130.0	1.50	16.30	99.00	99.00
9	9	14	8	15.0	1	135.0	2.10	16.40	99.00	99.00
9	9	14	9	15.0	1	138.0	1.50	16.90	99.00	99.00
9	9	14	10	15.0	1	0.0	0.00	18.60	99.00	99.00
9	9	14	11	15.0	1	0.0	0.00	20.10	99.00	99.00
9	9	14	12	15.0	1	0.0	0.00	21.00	99.00	99.00
9	9	14	13	15.0	1	0.0	0.00	22.10	99.00	99.00
9	9	14	14	15.0	1	277.0	0.50	23.10	99.00	99.00
9	9	14	15	15.0	1	301.0	0.50	23.80	99.00	99.00
9	9	14	16	15.0	1	329.0	1.50	24.10	99.00	99.00
9	9	14	17	15.0	1	351.0	1.50	24.10	99.00	99.00
9	9	14	18	15.0	1	39.0	2.60	23.50	99.00	99.00
9	9	14	19	15.0	1	66.0	4.10	21.10	99.00	99.00
9	9	14	20	15.0	1	95.0	3.60	19.60	99.00	99.00
9	9	14	21	15.0	1	107.0	3.10	18.90	99.00	99.00
9	9	14	22	15.0	1	110.0	2.10	18.60	99.00	99.00
9	9	14	23	15.0	1	62.0	0.50	18.30	99.00	99.00
9	9	14	24	15.0	1	360.0	1.00	18.10	99.00	99.00
9	9	15	1	15.0	1	354.0	1.00	18.10	99.00	99.00
9	9	15	2	15.0	1	342.0	1.00	18.10	99.00	99.00
9	9	15	3	15.0	1	331.0	0.50	17.90	99.00	99.00
9	9	15	4	15.0	1	306.0	0.50	17.60	99.00	99.00

```
 9  9 15  5    15.0 1   297.0     0.50    17.50    99.00    99.00
 9  9 15  6    15.0 1   311.0     1.00    17.40    99.00    99.00
 9  9 15  7    15.0 1   306.0     1.50    17.30    99.00    99.00
 9  9 15  8    15.0 1   311.0     1.50    17.40    99.00    99.00
 9  9 15  9    15.0 1   296.0     1.00    18.10    99.00    99.00
 9  9 15 10    15.0 1   288.0     1.00    19.80    99.00    99.00
 9  9 15 11    15.0 1   296.0     0.50    21.40    99.00    99.00
 9  9 15 12    15.0 1   323.0     1.00    23.10    99.00    99.00
 9  9 15 13    15.0 1   329.0     1.00    24.50    99.00    99.00
 9  9 15 14    15.0 1   352.0     1.50    25.50    99.00    99.00
 9  9 15 15    15.0 1     0.0     0.00    26.10    99.00    99.00
 9  9 15 16    15.0 1    10.0     2.60    26.30    99.00    99.00
 9  9 15 17    15.0 1    22.0     2.60    26.10    99.00    99.00
 9  9 15 18    15.0 1    42.0     3.10    25.50    99.00    99.00
 9  9 15 19    15.0 1    61.0     2.10    24.30    99.00    99.00
 9  9 15 20    15.0 1   159.0     0.50    23.10    99.00    99.00
 9  9 15 21    15.0 1   218.0     1.00    22.10    99.00    99.00
 9  9 15 22    15.0 1   200.0     0.50    21.50    99.00    99.00
 9  9 15 23    15.0 1    95.0     0.50    20.60    99.00    99.00
 9  9 15 24    15.0 1   100.0     0.50    19.60    99.00    99.00
 9  9 16  1    15.0 1   132.0     0.50    19.00    99.00    99.00
 9  9 16  2    15.0 1     0.0     0.00    18.50    99.00    99.00
 9  9 16  3    15.0 1   308.0     1.00    18.10    99.00    99.00
 9  9 16  4    15.0 1   326.0     2.10    17.80    99.00    99.00
 9  9 16  5    15.0 1   342.0     2.10    17.40    99.00    99.00
 9  9 16  6    15.0 1   354.0     2.10    16.90    99.00    99.00
 9  9 16  7    15.0 1   348.0     1.50    16.80    99.00    99.00
 9  9 16  8    15.0 1     0.0     0.00    18.00    99.00    99.00
 9  9 16  9    15.0 1     0.0     0.00    19.60    99.00    99.00
 9  9 16 10    15.0 1     0.0     0.00    21.90    99.00    99.00
 9  9 16 11    15.0 1     0.0     0.00    23.90    99.00    99.00
 9  9 16 12    15.0 1     0.0     0.00    25.80    99.00    99.00
 9  9 16 13    15.0 1   343.0     0.50    27.10    99.00    99.00
 9  9 16 14    15.0 1     5.0     1.00    28.10    99.00    99.00
 9  9 16 15    15.0 1     0.0     0.00    28.90    99.00    99.00
 9  9 16 16    15.0 1    12.0     2.60    29.10    99.00    99.00
 9  9 16 17    15.0 1    19.0     2.60    28.60    99.00    99.00
 9  9 16 18    15.0 1    34.0     2.60    27.80    99.00    99.00
 9  9 16 19    15.0 1    54.0     1.50    26.40    99.00    99.00
 9  9 16 20    15.0 1     0.0     0.00    25.00    99.00    99.00
 9  9 16 21    15.0 1     0.0     0.00    23.60    99.00    99.00
 9  9 16 22    15.0 1     0.0     0.00    22.60    99.00    99.00
 9  9 16 23    15.0 1    27.0     0.50    21.60    99.00    99.00
 9  9 16 24    15.0 1    24.0     0.50    20.80    99.00    99.00
 9  9 17  1    15.0 1     0.0     0.00    20.10    99.00    99.00
 9  9 17  2    15.0 1     0.0     0.00    19.60    99.00    99.00
 9  9 17  3    15.0 1   298.0     1.00    19.30    99.00    99.00
 9  9 17  4    15.0 1   312.0     2.10    19.00    99.00    99.00
 9  9 17  5    15.0 1   320.0     2.60    18.40    99.00    99.00
 9  9 17  6    15.0 1   322.0     2.10    17.80    99.00    99.00
 9  9 17  7    15.0 1   315.0     1.50    17.60    99.00    99.00
 9  9 17  8    15.0 1   340.0     1.50    19.50    99.00    99.00
 9  9 17  9    15.0 1     0.0     0.00    21.60    99.00    99.00
 9  9 17 10    15.0 1     0.0     0.00    24.30    99.00    99.00
 9  9 17 11    15.0 1     0.0     0.00    26.10    99.00    99.00
 9  9 17 12    15.0 1     0.0     0.00    27.80    99.00    99.00
 9  9 17 13    15.0 1     0.0     0.00    29.00    99.00    99.00
 9  9 17 14    15.0 1   334.0     0.50    30.10    99.00    99.00
 9  9 17 15    15.0 1   350.0     1.00    30.60    99.00    99.00
 9  9 17 16    15.0 1     0.0     0.00    30.90    99.00    99.00
 9  9 17 17    15.0 1     0.0     0.00    30.50    99.00    99.00
 9  9 17 18    15.0 1     0.0     0.00    29.40    99.00    99.00
 9  9 17 19    15.0 1   326.0     0.50    27.90    99.00    99.00
 9  9 17 20    15.0 1   236.0     0.50    26.40    99.00    99.00
 9  9 17 21    15.0 1   258.0     0.50    25.30    99.00    99.00
 9  9 17 22    15.0 1   307.0     1.00    24.30    99.00    99.00
 9  9 17 23    15.0 1   317.0     1.50    23.40    99.00    99.00
 9  9 17 24    15.0 1   338.0     1.50    22.60    99.00    99.00
 9  9 18  1    15.0 1   339.0     1.00    22.10    99.00    99.00
 9  9 18  2    15.0 1   340.0     0.50    21.50    99.00    99.00
 9  9 18  3    15.0 1   299.0     0.50    21.00    99.00    99.00
 9  9 18  4    15.0 1   290.0     0.50    20.60    99.00    99.00
 9  9 18  5    15.0 1   287.0     0.50    20.10    99.00    99.00
 9  9 18  6    15.0 1   331.0     0.50    19.90    99.00    99.00
 9  9 18  7    15.0 1    49.0     0.50    19.80    99.00    99.00
 9  9 18  8    15.0 1   317.0     1.00    22.00    99.00    99.00
 9  9 18  9    15.0 1   305.0     1.00    24.40    99.00    99.00
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 9  9 18 10    15.0 1   300.0     0.50    26.90    99.00    99.00
 9  9 18 11    15.0 1     0.0     0.00    29.40    99.00    99.00
 9  9 18 12    15.0 1     0.0     0.00    31.50    99.00    99.00
 9  9 18 13    15.0 1     0.0     0.00    32.90    99.00    99.00
 9  9 18 14    15.0 1    16.0     0.50    33.90    99.00    99.00
 9  9 18 15    15.0 1     0.0     0.00    34.50    99.00    99.00
 9  9 18 16    15.0 1     0.0     0.00    34.10    99.00    99.00
 9  9 18 17    15.0 1     8.0     3.10    33.10    99.00    99.00
 9  9 18 18    15.0 1     4.0     4.10    31.50    99.00    99.00
 9  9 18 19    15.0 1   316.0     4.60    29.60    99.00    99.00
 9  9 18 20    15.0 1   309.0     4.10    27.30    99.00    99.00
 9  9 18 21    15.0 1   306.0     4.10    25.80    99.00    99.00
 9  9 18 22    15.0 1   317.0     3.60    24.80    99.00    99.00
 9  9 18 23    15.0 1   328.0     3.60    23.80    99.00    99.00
 9  9 18 24    15.0 1   349.0     3.60    23.10    99.00    99.00
 9  9 19  1    15.0 1   352.0     3.60    22.50    99.00    99.00
 9  9 19  2    15.0 1   351.0     3.10    22.10    99.00    99.00
 9  9 19  3    15.0 1   360.0     2.60    22.10    99.00    99.00
 9  9 19  4    15.0 1     4.0     1.50    22.10    99.00    99.00
 9  9 19  5    15.0 1     5.0     0.50    21.80    99.00    99.00
 9  9 19  6    15.0 1    62.0     0.50    21.50    99.00    99.00
 9  9 19  7    15.0 1    67.0     1.00    21.10    99.00    99.00
 9  9 19  8    15.0 1    32.0     0.50    21.60    99.00    99.00
 9  9 19  9    15.0 1   348.0     1.00    22.80    99.00    99.00
 9  9 19 10    15.0 1     0.0     0.00    24.40    99.00    99.00
 9  9 19 11    15.0 1     0.0     0.00    26.90    99.00    99.00
 9  9 19 12    15.0 1     0.0     0.00    28.80    99.00    99.00
 9  9 19 13    15.0 1     0.0     0.00    30.10    99.00    99.00
 9  9 19 14    15.0 1     0.0     0.00    31.00    99.00    99.00
 9  9 19 15    15.0 1   335.0     0.50    31.60    99.00    99.00
 9  9 19 16    15.0 1    14.0     1.50    31.50    99.00    99.00
 9  9 19 17    15.0 1    19.0     3.10    30.60    99.00    99.00
 9  9 19 18    15.0 1    16.0     3.60    29.40    99.00    99.00
 9  9 19 19    15.0 1   355.0     2.60    28.50    99.00    99.00
 9  9 19 20    15.0 1   277.0     4.60    27.10    99.00    99.00
 9  9 19 21    15.0 1   270.0     5.10    24.00    99.00    99.00
 9  9 19 22    15.0 1   275.0     5.10    22.40    99.00    99.00
 9  9 19 23    15.0 1   281.0     4.60    21.50    99.00    99.00
 9  9 19 24    15.0 1   293.0     3.10    21.10    99.00    99.00
 9  9 20  1    15.0 1   310.0     2.60    21.10    99.00    99.00
 9  9 20  2    15.0 1   327.0     2.10    20.90    99.00    99.00
 9  9 20  3    15.0 1   340.0     1.00    20.60    99.00    99.00
 9  9 20  4    15.0 1   350.0     0.50    20.10    99.00    99.00
 9  9 20  5    15.0 1     9.0     0.50    19.60    99.00    99.00
 9  9 20  6    15.0 1    11.0     0.50    19.30    99.00    99.00
 9  9 20  7    15.0 1   349.0     0.50    19.10    99.00    99.00
 9  9 20  8    15.0 1   337.0     1.00    20.60    99.00    99.00
 9  9 20  9    15.0 1     0.0     0.00    22.40    99.00    99.00
 9  9 20 10    15.0 1     0.0     0.00    24.00    99.00    99.00
 9  9 20 11    15.0 1     0.0     0.00    25.60    99.00    99.00
 9  9 20 12    15.0 1     0.0     0.00    27.10    99.00    99.00
 9  9 20 13    15.0 1     0.0     0.00    28.40    99.00    99.00
 9  9 20 14    15.0 1   329.0     0.50    29.50    99.00    99.00
 9  9 20 15    15.0 1   350.0     1.00    30.10    99.00    99.00
 9  9 20 16    15.0 1     3.0     2.10    30.40    99.00    99.00
 9  9 20 17    15.0 1    12.0     2.10    30.00    99.00    99.00
 9  9 20 18    15.0 1    25.0     3.10    29.00    99.00    99.00
 9  9 20 19    15.0 1    14.0     2.60    27.60    99.00    99.00
 9  9 20 20    15.0 1   291.0     3.10    26.50    99.00    99.00
 9  9 20 21    15.0 1   277.0     4.60    23.10    99.00    99.00
 9  9 20 22    15.0 1   277.0     3.60    21.60    99.00    99.00
 9  9 20 23    15.0 1   287.0     3.10    20.60    99.00    99.00
 9  9 20 24    15.0 1   310.0     2.60    20.00    99.00    99.00
 9  9 21  1    15.0 1   316.0     2.10    19.50    99.00    99.00
 9  9 21  2    15.0 1   309.0     1.50    19.10    99.00    99.00
 9  9 21  3    15.0 1   277.0     1.50    19.10    99.00    99.00
 9  9 21  4    15.0 1   258.0     1.00    18.90    99.00    99.00
 9  9 21  5    15.0 1   259.0     0.50    18.60    99.00    99.00
 9  9 21  6    15.0 1   282.0     0.50    18.40    99.00    99.00
 9  9 21  7    15.0 1     0.0     0.00    18.10    99.00    99.00
 9  9 21  8    15.0 1   333.0     0.50    20.10    99.00    99.00
 9  9 21  9    15.0 1     0.0     0.00    22.10    99.00    99.00
 9  9 21 10    15.0 1     0.0     0.00    24.10    99.00    99.00
 9  9 21 11    15.0 1     0.0     0.00    26.00    99.00    99.00
 9  9 21 12    15.0 1     0.0     0.00    28.10    99.00    99.00
 9  9 21 13    15.0 1     0.0     0.00    29.60    99.00    99.00
 9  9 21 14    15.0 1   357.0     0.50    30.60    99.00    99.00
```

9	9	21	15	15.0	1	13.0	1.00	31.30	99.00	99.00
9	9	21	16	15.0	1	18.0	2.10	31.30	99.00	99.00
9	9	21	17	15.0	1	28.0	2.60	30.60	99.00	99.00
9	9	21	18	15.0	1	32.0	3.60	29.60	99.00	99.00
9	9	21	19	15.0	1	32.0	3.10	28.30	99.00	99.00
9	9	21	20	15.0	1	32.0	0.50	27.10	99.00	99.00
9	9	21	21	15.0	1	255.0	1.00	25.60	99.00	99.00
9	9	21	22	15.0	1	295.0	3.10	24.60	99.00	99.00
9	9	21	23	15.0	1	313.0	3.10	23.60	99.00	99.00
9	9	21	24	15.0	1	319.0	2.10	23.00	99.00	99.00
9	9	22	1	15.0	1	280.0	1.00	22.40	99.00	99.00
9	9	22	2	15.0	1	252.0	2.10	21.90	99.00	99.00
9	9	22	3	15.0	1	264.0	2.60	21.50	99.00	99.00
9	9	22	4	15.0	1	265.0	2.60	21.00	99.00	99.00
9	9	22	5	15.0	1	271.0	2.10	20.30	99.00	99.00
9	9	22	6	15.0	1	275.0	1.50	19.60	99.00	99.00
9	9	22	7	15.0	1	286.0	1.50	19.10	99.00	99.00
9	9	22	8	15.0	1	291.0	1.50	21.30	99.00	99.00
9	9	22	9	15.0	1	294.0	1.00	23.40	99.00	99.00
9	9	22	10	15.0	1	302.0	0.50	25.80	99.00	99.00
9	9	22	11	15.0	1	0.0	0.00	28.10	99.00	99.00
9	9	22	12	15.0	1	0.0	0.00	29.60	99.00	99.00
9	9	22	13	15.0	1	23.0	1.00	30.90	99.00	99.00
9	9	22	14	15.0	1	22.0	1.50	31.60	99.00	99.00
9	9	22	15	15.0	1	22.0	2.60	31.90	99.00	99.00
9	9	22	16	15.0	1	20.0	2.60	30.10	99.00	99.00
9	9	22	17	15.0	1	16.0	2.60	29.40	99.00	99.00
9	9	22	18	15.0	1	21.0	3.10	28.50	99.00	99.00
9	9	22	19	15.0	1	31.0	2.60	27.30	99.00	99.00
9	9	22	20	15.0	1	30.0	0.50	25.80	99.00	99.00
9	9	22	21	15.0	1	198.0	1.00	24.10	99.00	99.00
9	9	22	22	15.0	1	190.0	1.50	23.10	99.00	99.00
9	9	22	23	15.0	1	157.0	0.50	22.50	99.00	99.00
9	9	22	24	15.0	1	40.0	0.50	21.40	99.00	99.00
9	9	23	1	15.0	1	2.0	1.50	20.10	99.00	99.00
9	9	23	2	15.0	1	335.0	2.10	19.60	99.00	99.00
9	9	23	3	15.0	1	298.0	2.60	19.50	99.00	99.00
9	9	23	4	15.0	1	288.0	2.60	19.10	99.00	99.00
9	9	23	5	15.0	1	304.0	1.50	18.80	99.00	99.00
9	9	23	6	15.0	1	316.0	0.50	18.40	99.00	99.00
9	9	23	7	15.0	1	323.0	0.50	18.10	99.00	99.00
9	9	23	8	15.0	1	286.0	1.50	19.90	99.00	99.00
9	9	23	9	15.0	1	283.0	1.50	21.80	99.00	99.00
9	9	23	10	15.0	1	274.0	0.50	24.40	99.00	99.00
9	9	23	11	15.0	1	0.0	0.00	26.80	99.00	99.00
9	9	23	12	15.0	1	0.0	0.00	28.60	99.00	99.00
9	9	23	13	15.0	1	16.0	1.00	29.80	99.00	99.00
9	9	23	14	15.0	1	22.0	2.10	30.40	99.00	99.00
9	9	23	15	15.0	1	16.0	2.60	30.60	99.00	99.00
9	9	23	16	15.0	1	30.0	2.60	30.10	99.00	99.00
9	9	23	17	15.0	1	35.0	2.60	29.60	99.00	99.00
9	9	23	18	15.0	1	41.0	2.10	28.60	99.00	99.00
9	9	23	19	15.0	1	74.0	0.50	27.30	99.00	99.00
9	9	23	20	15.0	1	218.0	1.50	25.60	99.00	99.00
9	9	23	21	15.0	1	206.0	3.10	24.60	99.00	99.00
9	9	23	22	15.0	1	186.0	1.50	23.60	99.00	99.00
9	9	23	23	15.0	1	54.0	1.00	22.10	99.00	99.00
9	9	23	24	15.0	1	28.0	1.50	20.90	99.00	99.00
9	9	24	1	15.0	1	21.0	1.50	20.10	99.00	99.00
9	9	24	2	15.0	1	352.0	0.50	19.80	99.00	99.00
9	9	24	3	15.0	1	301.0	1.00	19.40	99.00	99.00
9	9	24	4	15.0	1	291.0	2.10	19.10	99.00	99.00
9	9	24	5	15.0	1	288.0	3.10	18.80	99.00	99.00
9	9	24	6	15.0	1	301.0	2.60	18.50	99.00	99.00
9	9	24	7	15.0	1	297.0	2.10	18.30	99.00	99.00
9	9	24	8	15.0	1	320.0	1.50	20.10	99.00	99.00
9	9	24	9	15.0	1	291.0	0.50	22.00	99.00	99.00
9	9	24	10	15.0	1	282.0	0.50	24.30	99.00	99.00
9	9	24	11	15.0	1	0.0	0.00	26.80	99.00	99.00
9	9	24	12	15.0	1	0.0	0.00	28.40	99.00	99.00
9	9	24	13	15.0	1	0.0	0.00	29.60	99.00	99.00
9	9	24	14	15.0	1	0.0	0.00	30.60	99.00	99.00
9	9	24	15	15.0	1	44.0	1.00	31.30	99.00	99.00
9	9	24	16	15.0	1	36.0	2.10	31.10	99.00	99.00
9	9	24	17	15.0	1	38.0	2.10	30.60	99.00	99.00
9	9	24	18	15.0	1	41.0	1.50	29.50	99.00	99.00
9	9	24	19	15.0	1	206.0	0.50	27.80	99.00	99.00

9	9	24	20	15.0	1	216.0	1.50	26.30	99.00	99.00
9	9	24	21	15.0	1	228.0	2.60	25.50	99.00	99.00
9	9	24	22	15.0	1	271.0	3.10	24.40	99.00	99.00
9	9	24	23	15.0	1	306.0	1.50	23.00	99.00	99.00
9	9	24	24	15.0	1	346.0	1.50	22.30	99.00	99.00
9	9	25	1	15.0	1	347.0	1.00	21.60	99.00	99.00
9	9	25	2	15.0	1	300.0	0.50	21.10	99.00	99.00
9	9	25	3	15.0	1	247.0	1.00	20.60	99.00	99.00
9	9	25	4	15.0	1	254.0	1.50	20.00	99.00	99.00
9	9	25	5	15.0	1	272.0	1.50	19.40	99.00	99.00
9	9	25	6	15.0	1	287.0	1.50	18.80	99.00	99.00
9	9	25	7	15.0	1	296.0	1.50	18.40	99.00	99.00
9	9	25	8	15.0	1	329.0	1.00	19.90	99.00	99.00
9	9	25	9	15.0	1	0.0	0.00	22.10	99.00	99.00
9	9	25	10	15.0	1	0.0	0.00	24.60	99.00	99.00
9	9	25	11	15.0	1	0.0	0.00	26.80	99.00	99.00
9	9	25	12	15.0	1	0.0	0.00	28.40	99.00	99.00
9	9	25	13	15.0	1	0.0	0.00	29.90	99.00	99.00
9	9	25	14	15.0	1	355.0	1.00	30.90	99.00	99.00
9	9	25	15	15.0	1	11.0	1.50	31.50	99.00	99.00
9	9	25	16	15.0	1	22.0	2.10	31.50	99.00	99.00
9	9	25	17	15.0	1	31.0	2.10	31.10	99.00	99.00
9	9	25	18	15.0	1	28.0	1.50	30.00	99.00	99.00
9	9	25	19	15.0	1	0.0	0.00	28.30	99.00	99.00
9	9	25	20	15.0	1	230.0	1.00	26.60	99.00	99.00
9	9	25	21	15.0	1	237.0	0.50	25.60	99.00	99.00
9	9	25	22	15.0	1	71.0	0.50	24.40	99.00	99.00
9	9	25	23	15.0	1	78.0	1.00	23.30	99.00	99.00
9	9	25	24	15.0	1	88.0	0.50	22.40	99.00	99.00
9	9	26	1	15.0	1	0.0	0.00	21.60	99.00	99.00
9	9	26	2	15.0	1	0.0	0.00	21.00	99.00	99.00
9	9	26	3	15.0	1	0.0	0.00	20.60	99.00	99.00
9	9	26	4	15.0	1	0.0	0.00	20.10	99.00	99.00
9	9	26	5	15.0	1	0.0	0.00	19.80	99.00	99.00
9	9	26	6	15.0	1	284.0	0.50	19.50	99.00	99.00
9	9	26	7	15.0	1	283.0	0.50	19.50	99.00	99.00
9	9	26	8	15.0	1	294.0	1.00	21.80	99.00	99.00
9	9	26	9	15.0	1	273.0	1.00	24.10	99.00	99.00
9	9	26	10	15.0	1	239.0	0.50	26.80	99.00	99.00
9	9	26	11	15.0	1	223.0	0.50	29.10	99.00	99.00
9	9	26	12	15.0	1	0.0	0.00	30.80	99.00	99.00
9	9	26	13	15.0	1	0.0	0.00	32.10	99.00	99.00
9	9	26	14	15.0	1	41.0	0.50	33.10	99.00	99.00
9	9	26	15	15.0	1	45.0	1.00	33.60	99.00	99.00
9	9	26	16	15.0	1	44.0	2.10	33.10	99.00	99.00
9	9	26	17	15.0	1	40.0	3.10	32.40	99.00	99.00
9	9	26	18	15.0	1	37.0	3.60	31.10	99.00	99.00
9	9	26	19	15.0	1	33.0	1.50	29.60	99.00	99.00
9	9	26	20	15.0	1	257.0	2.10	27.90	99.00	99.00
9	9	26	21	15.0	1	269.0	3.60	27.10	99.00	99.00
9	9	26	22	15.0	1	292.0	3.60	26.00	99.00	99.00
9	9	26	23	15.0	1	334.0	1.50	24.80	99.00	99.00
9	9	26	24	15.0	1	48.0	1.00	23.60	99.00	99.00
9	9	27	1	15.0	1	95.0	0.50	22.50	99.00	99.00
9	9	27	2	15.0	1	102.0	0.50	21.80	99.00	99.00
9	9	27	3	15.0	1	77.0	0.50	21.10	99.00	99.00
9	9	27	4	15.0	1	83.0	0.50	20.50	99.00	99.00
9	9	27	5	15.0	1	90.0	0.50	19.90	99.00	99.00
9	9	27	6	15.0	1	98.0	0.50	19.50	99.00	99.00
9	9	27	7	15.0	1	92.0	0.50	19.30	99.00	99.00
9	9	27	8	15.0	1	0.0	0.00	21.10	99.00	99.00
9	9	27	9	15.0	1	0.0	0.00	24.80	99.00	99.00
9	9	27	10	15.0	1	0.0	0.00	27.00	99.00	99.00
9	9	27	11	15.0	1	0.0	0.00	29.10	99.00	99.00
9	9	27	12	15.0	1	0.0	0.00	30.90	99.00	99.00
9	9	27	13	15.0	1	0.0	0.00	32.10	99.00	99.00
9	9	27	14	15.0	1	0.0	0.00	33.10	99.00	99.00
9	9	27	15	15.0	1	0.0	0.00	33.60	99.00	99.00
9	9	27	16	15.0	1	53.0	1.00	34.10	99.00	99.00
9	9	27	17	15.0	1	42.0	1.50	33.60	99.00	99.00
9	9	27	18	15.0	1	11.0	1.00	32.10	99.00	99.00
9	9	27	19	15.0	1	274.0	1.50	30.10	99.00	99.00
9	9	27	20	15.0	1	283.0	4.60	28.90	99.00	99.00
9	9	27	21	15.0	1	288.0	4.10	25.80	99.00	99.00
9	9	27	22	15.0	1	291.0	3.60	24.80	99.00	99.00
9	9	27	23	15.0	1	311.0	2.10	24.10	99.00	99.00
9	9	27	24	15.0	1	38.0	3.10	23.40	99.00	99.00

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 9  9 28  1    15.0 1    54.0     4.10    22.60    99.00    99.00
 9  9 28  2    15.0 1    48.0     3.10    22.00    99.00    99.00
 9  9 28  3    15.0 1    32.0     1.50    21.60    99.00    99.00
 9  9 28  4    15.0 1    41.0     1.00    20.90    99.00    99.00
 9  9 28  5    15.0 1    53.0     1.00    20.30    99.00    99.00
 9  9 28  6    15.0 1    47.0     0.50    19.90    99.00    99.00
 9  9 28  7    15.0 1    45.0     0.50    19.60    99.00    99.00
 9  9 28  8    15.0 1    22.0     0.50    20.50    99.00    99.00
 9  9 28  9    15.0 1   326.0     1.00    22.60    99.00    99.00
 9  9 28 10    15.0 1   344.0     1.00    24.40    99.00    99.00
 9  9 28 11    15.0 1   338.0     0.50    26.10    99.00    99.00
 9  9 28 12    15.0 1   346.0     0.50    27.60    99.00    99.00
 9  9 28 13    15.0 1    17.0     1.00    28.60    99.00    99.00
 9  9 28 14    15.0 1    24.0     1.50    29.40    99.00    99.00
 9  9 28 15    15.0 1     9.0     1.50    30.40    99.00    99.00
 9  9 28 16    15.0 1   346.0     1.50    30.60    99.00    99.00
 9  9 28 17    15.0 1   308.0     2.10    30.50    99.00    99.00
 9  9 28 18    15.0 1   299.0     4.60    28.50    99.00    99.00
 9  9 28 19    15.0 1   286.0     4.10    24.80    99.00    99.00
 9  9 28 20    15.0 1   309.0     3.60    23.10    99.00    99.00
 9  9 28 21    15.0 1   331.0     3.60    21.90    99.00    99.00
 9  9 28 22    15.0 1   338.0     3.60    20.80    99.00    99.00
 9  9 28 23    15.0 1   346.0     3.10    19.90    99.00    99.00
 9  9 28 24    15.0 1     3.0     2.60    19.30    99.00    99.00
 9  9 29  1    15.0 1    13.0     2.10    18.80    99.00    99.00
 9  9 29  2    15.0 1     8.0     1.50    18.30    99.00    99.00
 9  9 29  3    15.0 1   347.0     1.00    17.80    99.00    99.00
 9  9 29  4    15.0 1   319.0     0.50    17.10    99.00    99.00
 9  9 29  5    15.0 1   287.0     1.00    16.60    99.00    99.00
 9  9 29  6    15.0 1   286.0     2.10    15.90    99.00    99.00
 9  9 29  7    15.0 1   289.0     2.10    15.40    99.00    99.00
 9  9 29  8    15.0 1   286.0     3.60    16.80    99.00    99.00
 9  9 29  9    15.0 1   310.0     1.50    18.50    99.00    99.00
 9  9 29 10    15.0 1   314.0     0.50    19.90    99.00    99.00
 9  9 29 11    15.0 1   296.0     0.50    21.30    99.00    99.00
 9  9 29 12    15.0 1   306.0     1.50    22.50    99.00    99.00
 9  9 29 13    15.0 1   324.0     1.50    23.40    99.00    99.00
 9  9 29 14    15.0 1   339.0     2.60    24.00    99.00    99.00
 9  9 29 15    15.0 1   346.0     3.60    24.10    99.00    99.00
 9  9 29 16    15.0 1   346.0     4.60    23.90    99.00    99.00
 9  9 29 17    15.0 1     0.0     0.00    23.10    99.00    99.00
 9  9 29 18    15.0 1     2.0     4.60    21.10    99.00    99.00
 9  9 29 19    15.0 1   336.0     4.10    19.50    99.00    99.00
 9  9 29 20    15.0 1   319.0     4.10    18.50    99.00    99.00
 9  9 29 21    15.0 1   315.0     4.60    17.50    99.00    99.00
 9  9 29 22    15.0 1   302.0     4.10    15.90    99.00    99.00
 9  9 29 23    15.0 1   301.0     3.60    14.80    99.00    99.00
 9  9 29 24    15.0 1   312.0     3.10    14.00    99.00    99.00
 9  9 30  1    15.0 1   312.0     2.60    13.50    99.00    99.00
 9  9 30  2    15.0 1   305.0     2.10    13.00    99.00    99.00
 9  9 30  3    15.0 1   293.0     2.10    12.60    99.00    99.00
 9  9 30  4    15.0 1   285.0     1.50    12.10    99.00    99.00
 9  9 30  5    15.0 1   279.0     1.50    11.90    99.00    99.00
 9  9 30  6    15.0 1   273.0     1.50    11.60    99.00    99.00
 9  9 30  7    15.0 1   266.0     1.00    11.40    99.00    99.00
 9  9 30  8    15.0 1   356.0     2.10    13.10    99.00    99.00
 9  9 30  9    15.0 1     0.0     0.00    14.60    99.00    99.00
 9  9 30 10    15.0 1     0.0     0.00    16.00    99.00    99.00
 9  9 30 11    15.0 1     0.0     0.00    17.10    99.00    99.00
 9  9 30 12    15.0 1     0.0     0.00    18.30    99.00    99.00
 9  9 30 13    15.0 1   313.0     0.50    19.40    99.00    99.00
 9  9 30 14    15.0 1   316.0     1.50    20.30    99.00    99.00
 9  9 30 15    15.0 1   342.0     2.60    20.80    99.00    99.00
 9  9 30 16    15.0 1   350.0     3.10    20.80    99.00    99.00
 9  9 30 17    15.0 1   358.0     2.10    20.30    99.00    99.00
 9  9 30 18    15.0 1     0.0     0.00    19.60    99.00    99.00
 9  9 30 19    15.0 1     8.0     0.50    18.80    99.00    99.00
 9  9 30 20    15.0 1    87.0     0.50    17.60    99.00    99.00
 9  9 30 21    15.0 1   133.0     0.50    16.40    99.00    99.00
 9  9 30 22    15.0 1   140.0     1.00    15.30    99.00    99.00
 9  9 30 23    15.0 1   159.0     1.50    14.40    99.00    99.00
 9  9 30 24    15.0 1   183.0     0.50    13.80    99.00    99.00
 9 10  1  1    15.0 1   261.0     1.00    13.30    99.00    99.00
 9 10  1  2    15.0 1   275.0     1.50    12.90    99.00    99.00
 9 10  1  3    15.0 1   276.0     2.60    12.10    99.00    99.00
 9 10  1  4    15.0 1   288.0     3.10    11.40    99.00    99.00
 9 10  1  5    15.0 1   286.0     2.60    10.80    99.00    99.00
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 9 10   1   6     15.0 1   276.0      2.60     10.40     99.00     99.00
 9 10   1   7     15.0 1   270.0      2.10     10.10     99.00     99.00
 9 10   1   8     15.0 1   312.0      2.10     12.10     99.00     99.00
 9 10   1   9     15.0 1   294.0      0.50     14.00     99.00     99.00
 9 10   1  10     15.0 1     0.0      0.00     16.60     99.00     99.00
 9 10   1  11     15.0 1     0.0      0.00     18.60     99.00     99.00
 9 10   1  12     15.0 1     0.0      0.00     20.50     99.00     99.00
 9 10   1  13     15.0 1   338.0      0.50     22.10     99.00     99.00
 9 10   1  14     15.0 1   348.0      0.50     23.40     99.00     99.00
 9 10   1  15     15.0 1     0.0      0.00     24.00     99.00     99.00
 9 10   1  16     15.0 1     7.0      2.60     23.90     99.00     99.00
 9 10   1  17     15.0 1    17.0      3.10     22.60     99.00     99.00
 9 10   1  18     15.0 1    25.0      3.60     21.10     99.00     99.00
 9 10   1  19     15.0 1    16.0      3.10     20.10     99.00     99.00
 9 10   1  20     15.0 1    22.0      1.50     19.30     99.00     99.00
 9 10   1  21     15.0 1     0.0      0.00     18.00     99.00     99.00
 9 10   1  22     15.0 1   288.0      0.50     16.80     99.00     99.00
 9 10   1  23     15.0 1   343.0      0.50     15.80     99.00     99.00
 9 10   1  24     15.0 1     5.0      0.50     15.00     99.00     99.00
 9 10   2   1     15.0 1   357.0      0.50     14.30     99.00     99.00
 9 10   2   2     15.0 1   347.0      0.50     13.60     99.00     99.00
 9 10   2   3     15.0 1   336.0      1.00     13.10     99.00     99.00
 9 10   2   4     15.0 1   315.0      1.50     12.60     99.00     99.00
 9 10   2   5     15.0 1   302.0      1.50     12.40     99.00     99.00
 9 10   2   6     15.0 1   298.0      2.60     12.10     99.00     99.00
 9 10   2   7     15.0 1   297.0      2.60     12.00     99.00     99.00
 9 10   2   8     15.0 1   319.0      2.10     14.00     99.00     99.00
 9 10   2   9     15.0 1   304.0      1.00     16.00     99.00     99.00
 9 10   2  10     15.0 1     0.0      0.00     18.50     99.00     99.00
 9 10   2  11     15.0 1     0.0      0.00     21.10     99.00     99.00
 9 10   2  12     15.0 1     0.0      0.00     22.80     99.00     99.00
 9 10   2  13     15.0 1     0.0      0.00     24.10     99.00     99.00
 9 10   2  14     15.0 1     0.0      0.00     25.10     99.00     99.00
 9 10   2  15     15.0 1   355.0      0.50     25.80     99.00     99.00
 9 10   2  16     15.0 1     0.0      0.00     25.60     99.00     99.00
 9 10   2  17     15.0 1     6.0      2.10     25.10     99.00     99.00
 9 10   2  18     15.0 1    22.0      1.50     23.60     99.00     99.00
 9 10   2  19     15.0 1   315.0      0.50     21.90     99.00     99.00
 9 10   2  20     15.0 1   254.0      2.10     20.40     99.00     99.00
 9 10   2  21     15.0 1   256.0      4.10     18.60     99.00     99.00
 9 10   2  22     15.0 1   264.0      3.60     16.60     99.00     99.00
 9 10   2  23     15.0 1   262.0      3.10     15.60     99.00     99.00
 9 10   2  24     15.0 1   248.0      3.10     15.00     99.00     99.00
 9 10   3   1     15.0 1   246.0      2.10     14.50     99.00     99.00
 9 10   3   2     15.0 1   249.0      1.50     14.10     99.00     99.00
 9 10   3   3     15.0 1   252.0      2.10     13.60     99.00     99.00
 9 10   3   4     15.0 1   262.0      2.10     13.10     99.00     99.00
 9 10   3   5     15.0 1   269.0      1.50     12.60     99.00     99.00
 9 10   3   6     15.0 1   246.0      1.00     12.30     99.00     99.00
 9 10   3   7     15.0 1   219.0      0.50     12.00     99.00     99.00
 9 10   3   8     15.0 1   268.0      1.00     13.60     99.00     99.00
 9 10   3   9     15.0 1   260.0      0.50     15.60     99.00     99.00
 9 10   3  10     15.0 1     0.0      0.00     17.40     99.00     99.00
 9 10   3  11     15.0 1     0.0      0.00     18.80     99.00     99.00
 9 10   3  12     15.0 1     0.0      0.00     20.10     99.00     99.00
 9 10   3  13     15.0 1   315.0      0.50     21.10     99.00     99.00
 9 10   3  14     15.0 1   336.0      1.50     21.80     99.00     99.00
 9 10   3  15     15.0 1   354.0      2.60     22.10     99.00     99.00
 9 10   3  16     15.0 1     5.0      4.10     21.90     99.00     99.00
 9 10   3  17     15.0 1     3.0      3.60     20.90     99.00     99.00
 9 10   3  18     15.0 1   337.0      4.10     19.40     99.00     99.00
 9 10   3  19     15.0 1   335.0      4.10     18.40     99.00     99.00
 9 10   3  20     15.0 1   322.0      3.60     17.60     99.00     99.00
 9 10   3  21     15.0 1   299.0      3.60     16.60     99.00     99.00
 9 10   3  22     15.0 1   292.0      4.60     14.90     99.00     99.00
 9 10   3  23     15.0 1   294.0      4.60     13.10     99.00     99.00
 9 10   3  24     15.0 1   287.0      4.10     12.60     99.00     99.00
 9 10   4   1     15.0 1   288.0      3.10     12.50     99.00     99.00
 9 10   4   2     15.0 1   283.0      2.10     12.40     99.00     99.00
 9 10   4   3     15.0 1   270.0      1.50     12.30     99.00     99.00
 9 10   4   4     15.0 1   266.0      1.50     12.10     99.00     99.00
 9 10   4   5     15.0 1   278.0      2.10     12.00     99.00     99.00
 9 10   4   6     15.0 1   287.0      2.60     11.50     99.00     99.00
 9 10   4   7     15.0 1   294.0      3.10     11.00     99.00     99.00
 9 10   4   8     15.0 1   309.0      3.60     11.10     99.00     99.00
 9 10   4   9     15.0 1   324.0      2.60     12.00     99.00     99.00
 9 10   4  10     15.0 1   328.0      1.50     12.80     99.00     99.00
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 9 10   4 11     15.0 1   348.0     0.50    14.00    99.00    99.00
 9 10   4 12     15.0 1   336.0     1.00    15.10    99.00    99.00
 9 10   4 13     15.0 1   344.0     2.10    16.00    99.00    99.00
 9 10   4 14     15.0 1   349.0     3.10    16.50    99.00    99.00
 9 10   4 15     15.0 1   355.0     4.10    16.60    99.00    99.00
 9 10   4 16     15.0 1     2.0     5.10    16.40    99.00    99.00
 9 10   4 17     15.0 1     0.0     0.00    15.60    99.00    99.00
 9 10   4 18     15.0 1    12.0     3.60    14.60    99.00    99.00
 9 10   4 19     15.0 1     8.0     3.10    13.80    99.00    99.00
 9 10   4 20     15.0 1    31.0     2.60    13.10    99.00    99.00
 9 10   4 21     15.0 1    79.0     2.10    12.10    99.00    99.00
 9 10   4 22     15.0 1   132.0     2.10    11.40    99.00    99.00
 9 10   4 23     15.0 1   147.0     2.60    10.80    99.00    99.00
 9 10   4 24     15.0 1   127.0     1.00    10.10    99.00    99.00
 9 10   5  1     15.0 1    98.0     1.00     9.10    99.00    99.00
 9 10   5  2     15.0 1   115.0     1.50     8.40    99.00    99.00
 9 10   5  3     15.0 1   124.0     1.00     7.90    99.00    99.00
 9 10   5  4     15.0 1   118.0     0.50     7.40    99.00    99.00
 9 10   5  5     15.0 1     0.0     0.00     7.00    99.00    99.00
 9 10   5  6     15.0 1   300.0     1.00     6.60    99.00    99.00
 9 10   5  7     15.0 1   302.0     2.10     6.30    99.00    99.00
 9 10   5  8     15.0 1   324.0     2.10     8.50    99.00    99.00
 9 10   5  9     15.0 1   324.0     0.50    10.50    99.00    99.00
 9 10   5 10     15.0 1     0.0     0.00    12.30    99.00    99.00
 9 10   5 11     15.0 1     0.0     0.00    13.80    99.00    99.00
 9 10   5 12     15.0 1     0.0     0.00    15.00    99.00    99.00
 9 10   5 13     15.0 1   292.0     0.50    16.10    99.00    99.00
 9 10   5 14     15.0 1   300.0     0.50    16.90    99.00    99.00
 9 10   5 15     15.0 1   341.0     1.00    17.40    99.00    99.00
 9 10   5 16     15.0 1     0.0     0.00    17.50    99.00    99.00
 9 10   5 17     15.0 1    34.0     2.10    17.00    99.00    99.00
 9 10   5 18     15.0 1    43.0     3.10    16.30    99.00    99.00
 9 10   5 19     15.0 1    58.0     3.10    15.10    99.00    99.00
 9 10   5 20     15.0 1    95.0     2.60    14.00    99.00    99.00
 9 10   5 21     15.0 1   120.0     2.60    12.80    99.00    99.00
 9 10   5 22     15.0 1   145.0     2.60    11.80    99.00    99.00
 9 10   5 23     15.0 1   143.0     2.60    11.00    99.00    99.00
 9 10   5 24     15.0 1   124.0     3.10    10.10    99.00    99.00
 9 10   6  1     15.0 1   120.0     3.10     9.60    99.00    99.00
 9 10   6  2     15.0 1   131.0     3.10     9.10    99.00    99.00
 9 10   6  3     15.0 1   145.0     2.60     8.90    99.00    99.00
 9 10   6  4     15.0 1   171.0     1.00     8.40    99.00    99.00
 9 10   6  5     15.0 1   270.0     0.50     7.80    99.00    99.00
 9 10   6  6     15.0 1   292.0     1.50     7.30    99.00    99.00
 9 10   6  7     15.0 1   281.0     1.00     7.00    99.00    99.00
 9 10   6  8     15.0 1   305.0     1.50     9.30    99.00    99.00
 9 10   6  9     15.0 1   291.0     1.00    11.50    99.00    99.00
 9 10   6 10     15.0 1   284.0     1.00    14.10    99.00    99.00
 9 10   6 11     15.0 1   286.0     0.50    16.10    99.00    99.00
 9 10   6 12     15.0 1     0.0     0.00    17.60    99.00    99.00
 9 10   6 13     15.0 1     0.0     0.00    19.00    99.00    99.00
 9 10   6 14     15.0 1   352.0     1.00    19.80    99.00    99.00
 9 10   6 15     15.0 1    12.0     1.50    20.10    99.00    99.00
 9 10   6 16     15.0 1    13.0     3.10    20.00    99.00    99.00
 9 10   6 17     15.0 1    18.0     3.10    19.10    99.00    99.00
 9 10   6 18     15.0 1    19.0     3.60    17.90    99.00    99.00
 9 10   6 19     15.0 1    25.0     3.60    17.00    99.00    99.00
 9 10   6 20     15.0 1    27.0     2.10    15.90    99.00    99.00
 9 10   6 21     15.0 1    73.0     0.50    14.60    99.00    99.00
 9 10   6 22     15.0 1   229.0     1.50    13.40    99.00    99.00
 9 10   6 23     15.0 1   256.0     1.50    12.40    99.00    99.00
 9 10   6 24     15.0 1   302.0     1.50    11.60    99.00    99.00
 9 10   7  1     15.0 1   339.0     0.50    10.90    99.00    99.00
 9 10   7  2     15.0 1     0.0     0.00    10.30    99.00    99.00
 9 10   7  3     15.0 1   296.0     0.50     9.90    99.00    99.00
 9 10   7  4     15.0 1   267.0     1.00     9.80    99.00    99.00
 9 10   7  5     15.0 1   251.0     1.50     9.60    99.00    99.00
 9 10   7  6     15.0 1   248.0     2.60     9.10    99.00    99.00
 9 10   7  7     15.0 1   256.0     3.10     8.60    99.00    99.00
 9 10   7  8     15.0 1   287.0     2.60    10.10    99.00    99.00
 9 10   7  9     15.0 1   280.0     1.00    12.10    99.00    99.00
 9 10   7 10     15.0 1   241.0     0.50    14.60    99.00    99.00
 9 10   7 11     15.0 1   221.0     0.50    16.60    99.00    99.00
 9 10   7 12     15.0 1     0.0     0.00    18.30    99.00    99.00
 9 10   7 13     15.0 1     0.0     0.00    19.60    99.00    99.00
 9 10   7 14     15.0 1     0.0     0.00    20.60    99.00    99.00
 9 10   7 15     15.0 1     0.0     0.00    21.30    99.00    99.00
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 9 10  7 16    15.0 1    58.0     0.50    21.60    99.00    99.00
 9 10  7 17    15.0 1    52.0     1.50    21.10    99.00    99.00
 9 10  7 18    15.0 1    47.0     2.60    20.00    99.00    99.00
 9 10  7 19    15.0 1    67.0     1.50    18.40    99.00    99.00
 9 10  7 20    15.0 1   219.0     1.00    16.60    99.00    99.00
 9 10  7 21    15.0 1   256.0     2.10    15.00    99.00    99.00
 9 10  7 22    15.0 1   285.0     2.60    13.80    99.00    99.00
 9 10  7 23    15.0 1   295.0     2.10    13.00    99.00    99.00
 9 10  7 24    15.0 1   301.0     0.50    12.60    99.00    99.00
 9 10  8  1    15.0 1     0.0     0.00    12.40    99.00    99.00
 9 10  8  2    15.0 1   129.0     0.50    11.90    99.00    99.00
 9 10  8  3    15.0 1   130.0     1.00    11.00    99.00    99.00
 9 10  8  4    15.0 1   151.0     1.50    10.10    99.00    99.00
 9 10  8  5    15.0 1   166.0     1.50     9.60    99.00    99.00
 9 10  8  6    15.0 1   195.0     1.50     9.30    99.00    99.00
 9 10  8  7    15.0 1   221.0     1.00     9.00    99.00    99.00
 9 10  8  8    15.0 1   229.0     0.50    10.50    99.00    99.00
 9 10  8  9    15.0 1     0.0     0.00    13.50    99.00    99.00
 9 10  8 10    15.0 1     0.0     0.00    16.10    99.00    99.00
 9 10  8 11    15.0 1     0.0     0.00    18.30    99.00    99.00
 9 10  8 12    15.0 1     0.0     0.00    19.80    99.00    99.00
 9 10  8 13    15.0 1     0.0     0.00    21.10    99.00    99.00
 9 10  8 14    15.0 1     0.0     0.00    22.30    99.00    99.00
 9 10  8 15    15.0 1     0.0     0.00    22.90    99.00    99.00
 9 10  8 16    15.0 1    15.0     0.50    23.00    99.00    99.00
 9 10  8 17    15.0 1    28.0     1.50    22.50    99.00    99.00
 9 10  8 18    15.0 1    34.0     2.60    21.10    99.00    99.00
 9 10  8 19    15.0 1    50.0     2.60    19.60    99.00    99.00
 9 10  8 20    15.0 1     0.0     0.00    18.00    99.00    99.00
 9 10  8 21    15.0 1   275.0     3.60    16.30    99.00    99.00
 9 10  8 22    15.0 1   284.0     3.60    14.80    99.00    99.00
 9 10  8 23    15.0 1   297.0     2.60    14.10    99.00    99.00
 9 10  8 24    15.0 1   301.0     1.50    13.60    99.00    99.00
 9 10  9  1    15.0 1   296.0     1.00    13.10    99.00    99.00
 9 10  9  2    15.0 1   313.0     0.50    12.60    99.00    99.00
 9 10  9  3    15.0 1   314.0     0.50    12.30    99.00    99.00
 9 10  9  4    15.0 1     0.0     0.00    11.60    99.00    99.00
 9 10  9  5    15.0 1   227.0     0.50    11.10    99.00    99.00
 9 10  9  6    15.0 1   226.0     1.00    10.50    99.00    99.00
 9 10  9  7    15.0 1   243.0     1.50    10.10    99.00    99.00
 9 10  9  8    15.0 1   268.0     1.50    11.80    99.00    99.00
 9 10  9  9    15.0 1   263.0     0.50    14.00    99.00    99.00
 9 10  9 10    15.0 1     0.0     0.00    16.40    99.00    99.00
 9 10  9 11    15.0 1     0.0     0.00    18.60    99.00    99.00
 9 10  9 12    15.0 1     0.0     0.00    20.30    99.00    99.00
 9 10  9 13    15.0 1     0.0     0.00    21.90    99.00    99.00
 9 10  9 14    15.0 1     0.0     0.00    23.10    99.00    99.00
 9 10  9 15    15.0 1   355.0     0.50    23.60    99.00    99.00
 9 10  9 16    15.0 1     5.0     1.50    23.60    99.00    99.00
 9 10  9 17    15.0 1    14.0     1.50    23.30    99.00    99.00
 9 10  9 18    15.0 1    27.0     2.10    21.90    99.00    99.00
 9 10  9 19    15.0 1    31.0     0.50    20.40    99.00    99.00
 9 10  9 20    15.0 1   273.0     3.10    18.80    99.00    99.00
 9 10  9 21    15.0 1   291.0     4.10    16.50    99.00    99.00
 9 10  9 22    15.0 1   296.0     3.10    15.10    99.00    99.00
 9 10  9 23    15.0 1   326.0     3.10    14.30    99.00    99.00
 9 10  9 24    15.0 1   354.0     3.10    13.50    99.00    99.00
 9 10 10  1    15.0 1     9.0     3.10    12.90    99.00    99.00
 9 10 10  2    15.0 1     0.0     0.00    12.40    99.00    99.00
 9 10 10  3    15.0 1   344.0     1.50    12.00    99.00    99.00
 9 10 10  4    15.0 1   301.0     1.00    11.60    99.00    99.00
 9 10 10  5    15.0 1   279.0     1.50    11.30    99.00    99.00
 9 10 10  6    15.0 1   292.0     1.50    11.00    99.00    99.00
 9 10 10  7    15.0 1   283.0     1.00    10.60    99.00    99.00
 9 10 10  8    15.0 1   322.0     2.10    11.90    99.00    99.00
 9 10 10  9    15.0 1   306.0     0.50    13.60    99.00    99.00
 9 10 10 10    15.0 1     0.0     0.00    16.00    99.00    99.00
 9 10 10 11    15.0 1     0.0     0.00    17.90    99.00    99.00
 9 10 10 12    15.0 1     0.0     0.00    19.90    99.00    99.00
 9 10 10 13    15.0 1     0.0     0.00    21.60    99.00    99.00
 9 10 10 14    15.0 1     0.0     0.00    22.80    99.00    99.00
 9 10 10 15    15.0 1   318.0     0.50    23.40    99.00    99.00
 9 10 10 16    15.0 1   354.0     1.50    23.50    99.00    99.00
 9 10 10 17    15.0 1     8.0     2.60    23.00    99.00    99.00
 9 10 10 18    15.0 1    32.0     3.60    21.60    99.00    99.00
 9 10 10 19    15.0 1    25.0     2.10    20.30    99.00    99.00
 9 10 10 20    15.0 1   280.0     3.60    18.50    99.00    99.00
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 9 10 10 21    15.0 1   282.0     4.10    15.60    99.00    99.00
 9 10 10 22    15.0 1   295.0     3.60    14.40    99.00    99.00
 9 10 10 23    15.0 1   298.0     3.10    13.60    99.00    99.00
 9 10 10 24    15.0 1   345.0     2.60    13.10    99.00    99.00
 9 10 11  1    15.0 1    24.0     2.60    12.50    99.00    99.00
 9 10 11  2    15.0 1    45.0     2.10    12.00    99.00    99.00
 9 10 11  3    15.0 1    39.0     0.50    11.60    99.00    99.00
 9 10 11  4    15.0 1     0.0     0.00    11.40    99.00    99.00
 9 10 11  5    15.0 1     0.0     0.00    11.00    99.00    99.00
 9 10 11  6    15.0 1   142.0     0.50    10.60    99.00    99.00
 9 10 11  7    15.0 1    97.0     0.50    10.10    99.00    99.00
 9 10 11  8    15.0 1    70.0     0.50    11.60    99.00    99.00
 9 10 11  9    15.0 1     0.0     0.00    14.50    99.00    99.00
 9 10 11 10    15.0 1     0.0     0.00    16.60    99.00    99.00
 9 10 11 11    15.0 1     0.0     0.00    18.10    99.00    99.00
 9 10 11 12    15.0 1     0.0     0.00    19.80    99.00    99.00
 9 10 11 13    15.0 1   329.0     0.50    21.00    99.00    99.00
 9 10 11 14    15.0 1   337.0     0.50    22.00    99.00    99.00
 9 10 11 15    15.0 1   350.0     1.00    22.50    99.00    99.00
 9 10 11 16    15.0 1   359.0     1.50    22.50    99.00    99.00
 9 10 11 17    15.0 1    20.0     2.10    22.10    99.00    99.00
 9 10 11 18    15.0 1    35.0     2.60    21.00    99.00    99.00
 9 10 11 19    15.0 1   304.0     2.10    19.60    99.00    99.00
 9 10 11 20    15.0 1   266.0     4.10    16.60    99.00    99.00
 9 10 11 21    15.0 1   279.0     3.60    14.60    99.00    99.00
 9 10 11 22    15.0 1   299.0     2.60    13.90    99.00    99.00
 9 10 11 23    15.0 1   318.0     2.60    13.40    99.00    99.00
 9 10 11 24    15.0 1   346.0     3.10    12.90    99.00    99.00
 9 10 12  1    15.0 1    10.0     3.60    12.50    99.00    99.00
 9 10 12  2    15.0 1    32.0     3.60    12.30    99.00    99.00
 9 10 12  3    15.0 1    26.0     3.10    12.00    99.00    99.00
 9 10 12  4    15.0 1    26.0     2.60    12.00    99.00    99.00
 9 10 12  5    15.0 1    38.0     3.10    11.80    99.00    99.00
 9 10 12  6    15.0 1    45.0     2.60    11.60    99.00    99.00
 9 10 12  7    15.0 1    50.0     2.10    11.60    99.00    99.00
 9 10 12  8    15.0 1    44.0     1.50    12.60    99.00    99.00
 9 10 12  9    15.0 1    43.0     1.00    14.10    99.00    99.00
 9 10 12 10    15.0 1    53.0     0.50    15.80    99.00    99.00
 9 10 12 11    15.0 1    88.0     0.50    17.00    99.00    99.00
 9 10 12 12    15.0 1   124.0     0.50    17.50    99.00    99.00
 9 10 12 13    15.0 1   122.0     0.50    18.30    99.00    99.00
 9 10 12 14    15.0 1   117.0     0.50    18.80    99.00    99.00
 9 10 12 15    15.0 1   135.0     0.50    19.10    99.00    99.00
 9 10 12 16    15.0 1   153.0     0.50    19.80    99.00    99.00
 9 10 12 17    15.0 1    63.0     0.50    19.60    99.00    99.00
 9 10 12 18    15.0 1   256.0     0.50    19.00    99.00    99.00
 9 10 12 19    15.0 1   259.0     2.10    18.30    99.00    99.00
 9 10 12 20    15.0 1   267.0     3.10    17.10    99.00    99.00
 9 10 12 21    15.0 1   261.0     2.10    15.60    99.00    99.00
 9 10 12 22    15.0 1   208.0     0.50    14.50    99.00    99.00
 9 10 12 23    15.0 1    88.0     0.50    13.90    99.00    99.00
 9 10 12 24    15.0 1   103.0     1.50    13.60    99.00    99.00
 9 10 13  1    15.0 1   103.0     2.60    13.40    99.00    99.00
 9 10 13  2    15.0 1   112.0     3.10    13.10    99.00    99.00
 9 10 13  3    15.0 1   112.0     3.10    13.10    99.00    99.00
 9 10 13  4    15.0 1   120.0     2.60    13.30    99.00    99.00
 9 10 13  5    15.0 1   178.0     2.60    13.50    99.00    99.00
 9 10 13  6    15.0 1   177.0     2.60    13.10    99.00    99.00
 9 10 13  7    15.0 1   131.0     3.10    12.90    99.00    99.00
 9 10 13  8    15.0 1   124.0     4.60    13.10    99.00    99.00
 9 10 13  9    15.0 1   126.0     6.20    14.00    99.00    99.00
 9 10 13 10    15.0 1   128.0     7.20    15.00    99.00    99.00
 9 10 13 11    15.0 1   126.0     6.70    16.10    99.00    99.00
 9 10 13 12    15.0 1   135.0     6.20    16.80    99.00    99.00
 9 10 13 13    15.0 1   128.0     6.70    17.00    99.00    99.00
 9 10 13 14    15.0 1   122.0     6.70    16.90    99.00    99.00
 9 10 13 15    15.0 1   118.0     6.70    16.60    99.00    99.00
 9 10 13 16    15.0 1   116.0     5.70    16.60    99.00    99.00
 9 10 13 17    15.0 1   124.0     4.60    16.80    99.00    99.00
 9 10 13 18    15.0 1   126.0     4.60    16.90    99.00    99.00
 9 10 13 19    15.0 1   116.0     4.60    17.10    99.00    99.00
 9 10 13 20    15.0 1   125.0     4.60    17.10    99.00    99.00
 9 10 13 21    15.0 1   121.0     4.10    17.10    99.00    99.00
 9 10 13 22    15.0 1   124.0     3.60    17.30    99.00    99.00
 9 10 13 23    15.0 1   120.0     4.10    17.40    99.00    99.00
 9 10 13 24    15.0 1   124.0     4.10    17.60    99.00    99.00
 9 10 14  1    15.0 1   125.0     3.60    17.80    99.00    99.00
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 9 10 14  2    15.0 1   111.0     3.60    18.00    99.00    99.00
 9 10 14  3    15.0 1   112.0     3.60    18.10    99.00    99.00
 9 10 14  4    15.0 1   104.0     4.10    18.00    99.00    99.00
 9 10 14  5    15.0 1   101.0     4.10    17.60    99.00    99.00
 9 10 14  6    15.0 1    89.0     4.10    17.50    99.00    99.00
 9 10 14  7    15.0 1    95.0     3.60    17.50    99.00    99.00
 9 10 14  8    15.0 1    90.0     2.60    18.10    99.00    99.00
 9 10 14  9    15.0 1    88.0     1.50    19.80    99.00    99.00
 9 10 14 10    15.0 1    64.0     0.50    21.80    99.00    99.00
 9 10 14 11    15.0 1    15.0     0.50    23.10    99.00    99.00
 9 10 14 12    15.0 1    22.0     1.00    23.60    99.00    99.00
 9 10 14 13    15.0 1    13.0     1.50    24.00    99.00    99.00
 9 10 14 14    15.0 1     0.0     0.00    24.10    99.00    99.00
 9 10 14 15    15.0 1     6.0     2.10    24.10    99.00    99.00
 9 10 14 16    15.0 1    20.0     2.60    24.00    99.00    99.00
 9 10 14 17    15.0 1    32.0     2.60    23.60    99.00    99.00
 9 10 14 18    15.0 1    29.0     3.10    22.80    99.00    99.00
 9 10 14 19    15.0 1    32.0     2.10    22.00    99.00    99.00
 9 10 14 20    15.0 1   354.0     1.00    21.10    99.00    99.00
 9 10 14 21    15.0 1   284.0     2.10    20.60    99.00    99.00
 9 10 14 22    15.0 1   279.0     3.60    19.30    99.00    99.00
 9 10 14 23    15.0 1   291.0     3.60    18.00    99.00    99.00
 9 10 14 24    15.0 1   294.0     3.60    16.80    99.00    99.00
 9 10 15  1    15.0 1   286.0     3.10    16.00    99.00    99.00
 9 10 15  2    15.0 1   292.0     2.60    15.60    99.00    99.00
 9 10 15  3    15.0 1   281.0     2.10    15.60    99.00    99.00
 9 10 15  4    15.0 1   264.0     1.50    15.60    99.00    99.00
 9 10 15  5    15.0 1   211.0     1.00    15.40    99.00    99.00
 9 10 15  6    15.0 1   147.0     1.50    15.10    99.00    99.00
 9 10 15  7    15.0 1   155.0     1.00    15.00    99.00    99.00
 9 10 15  8    15.0 1   221.0     0.50    15.10    99.00    99.00
 9 10 15  9    15.0 1   248.0     1.00    16.10    99.00    99.00
 9 10 15 10    15.0 1   261.0     0.50    17.50    99.00    99.00
 9 10 15 11    15.0 1     0.0     0.00    20.10    99.00    99.00
 9 10 15 12    15.0 1     0.0     0.00    21.80    99.00    99.00
 9 10 15 13    15.0 1     0.0     0.00    23.10    99.00    99.00
 9 10 15 14    15.0 1   324.0     1.00    24.00    99.00    99.00
 9 10 15 15    15.0 1   334.0     1.50    24.50    99.00    99.00
 9 10 15 16    15.0 1   342.0     2.10    24.50    99.00    99.00
 9 10 15 17    15.0 1   349.0     2.10    24.40    99.00    99.00
 9 10 15 18    15.0 1     9.0     1.50    23.50    99.00    99.00
 9 10 15 19    15.0 1    64.0     1.00    22.40    99.00    99.00
 9 10 15 20    15.0 1   108.0     0.50    21.10    99.00    99.00
 9 10 15 21    15.0 1   130.0     0.50    20.00    99.00    99.00
 9 10 15 22    15.0 1   132.0     1.00    19.00    99.00    99.00
 9 10 15 23    15.0 1   133.0     1.00    18.30    99.00    99.00
 9 10 15 24    15.0 1   116.0     1.00    17.60    99.00    99.00
 9 10 16  1    15.0 1   123.0     0.50    17.10    99.00    99.00
 9 10 16  2    15.0 1     0.0     0.00    16.60    99.00    99.00
 9 10 16  3    15.0 1   273.0     0.50    16.30    99.00    99.00
 9 10 16  4    15.0 1   294.0     0.50    15.90    99.00    99.00
 9 10 16  5    15.0 1   277.0     0.50    15.50    99.00    99.00
 9 10 16  6    15.0 1   260.0     1.00    15.10    99.00    99.00
 9 10 16  7    15.0 1   250.0     1.00    14.40    99.00    99.00
 9 10 16  8    15.0 1   264.0     1.00    14.40    99.00    99.00
 9 10 16  9    15.0 1   268.0     1.00    16.30    99.00    99.00
 9 10 16 10    15.0 1     0.0     0.00    19.50    99.00    99.00
 9 10 16 11    15.0 1     0.0     0.00    21.80    99.00    99.00
 9 10 16 12    15.0 1     0.0     0.00    23.50    99.00    99.00
 9 10 16 13    15.0 1   326.0     0.50    25.00    99.00    99.00
 9 10 16 14    15.0 1   337.0     1.50    26.10    99.00    99.00
 9 10 16 15    15.0 1   351.0     2.10    26.60    99.00    99.00
 9 10 16 16    15.0 1     0.0     0.00    26.60    99.00    99.00
 9 10 16 17    15.0 1    19.0     2.60    26.10    99.00    99.00
 9 10 16 18    15.0 1    33.0     2.10    24.90    99.00    99.00
 9 10 16 19    15.0 1     0.0     0.00    23.50    99.00    99.00
 9 10 16 20    15.0 1   184.0     0.50    22.10    99.00    99.00
 9 10 16 21    15.0 1     0.0     0.00    21.00    99.00    99.00
 9 10 16 22    15.0 1    83.0     0.50    20.10    99.00    99.00
 9 10 16 23    15.0 1    92.0     0.50    19.10    99.00    99.00
 9 10 16 24    15.0 1     0.0     0.00    18.40    99.00    99.00
 9 10 17  1    15.0 1   279.0     1.00    18.00    99.00    99.00
 9 10 17  2    15.0 1   269.0     1.50    17.90    99.00    99.00
 9 10 17  3    15.0 1   268.0     2.60    17.60    99.00    99.00
 9 10 17  4    15.0 1   276.0     2.10    17.30    99.00    99.00
 9 10 17  5    15.0 1   289.0     1.50    16.90    99.00    99.00
 9 10 17  6    15.0 1   298.0     1.00    16.50    99.00    99.00
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 9 10 17  7    15.0 1   280.0     0.50    16.10    99.00    99.00
 9 10 17  8    15.0 1   257.0     1.00    16.80    99.00    99.00
 9 10 17  9    15.0 1   284.0     1.00    19.30    99.00    99.00
 9 10 17 10    15.0 1     0.0     0.00    21.50    99.00    99.00
 9 10 17 11    15.0 1     0.0     0.00    23.80    99.00    99.00
 9 10 17 12    15.0 1     0.0     0.00    25.30    99.00    99.00
 9 10 17 13    15.0 1   342.0     1.00    26.10    99.00    99.00
 9 10 17 14    15.0 1   352.0     2.10    26.60    99.00    99.00
 9 10 17 15    15.0 1     7.0     2.10    26.60    99.00    99.00
 9 10 17 16    15.0 1   357.0     1.00    26.40    99.00    99.00
 9 10 17 17    15.0 1     0.0     0.00    25.60    99.00    99.00
 9 10 17 18    15.0 1   187.0     0.50    24.40    99.00    99.00
 9 10 17 19    15.0 1   202.0     1.00    23.30    99.00    99.00
 9 10 17 20    15.0 1   200.0     0.50    22.50    99.00    99.00
 9 10 17 21    15.0 1     0.0     0.00    21.60    99.00    99.00
 9 10 17 22    15.0 1    39.0     0.50    21.00    99.00    99.00
 9 10 17 23    15.0 1    17.0     1.00    20.50    99.00    99.00
 9 10 17 24    15.0 1   348.0     1.50    20.10    99.00    99.00
 9 10 18  1    15.0 1   338.0     2.60    19.80    99.00    99.00
 9 10 18  2    15.0 1   353.0     2.60    19.10    99.00    99.00
 9 10 18  3    15.0 1   354.0     1.50    18.60    99.00    99.00
 9 10 18  4    15.0 1   321.0     0.50    18.10    99.00    99.00
 9 10 18  5    15.0 1   278.0     0.50    17.90    99.00    99.00
 9 10 18  6    15.0 1     0.0     0.00    17.60    99.00    99.00
 9 10 18  7    15.0 1     0.0     0.00    17.40    99.00    99.00
 9 10 18  8    15.0 1     0.0     0.00    17.40    99.00    99.00
 9 10 18  9    15.0 1   332.0     0.50    17.50    99.00    99.00
 9 10 18 10    15.0 1     0.0     0.00    17.40    99.00    99.00
 9 10 18 11    15.0 1   353.0     0.50    18.40    99.00    99.00
 9 10 18 12    15.0 1   332.0     0.50    20.30    99.00    99.00
 9 10 18 13    15.0 1   338.0     1.00    22.10    99.00    99.00
 9 10 18 14    15.0 1   350.0     1.00    23.00    99.00    99.00
 9 10 18 15    15.0 1   354.0     2.10    23.30    99.00    99.00
 9 10 18 16    15.0 1   356.0     2.10    23.30    99.00    99.00
 9 10 18 17    15.0 1   358.0     2.10    23.10    99.00    99.00
 9 10 18 18    15.0 1     7.0     3.10    22.10    99.00    99.00
 9 10 18 19    15.0 1    25.0     3.10    21.10    99.00    99.00
 9 10 18 20    15.0 1   341.0     1.50    20.40    99.00    99.00
 9 10 18 21    15.0 1   285.0     2.60    19.60    99.00    99.00
 9 10 18 22    15.0 1   286.0     3.60    18.60    99.00    99.00
 9 10 18 23    15.0 1   316.0     3.60    17.60    99.00    99.00
 9 10 18 24    15.0 1   330.0     3.60    16.40    99.00    99.00
 9 10 19  1    15.0 1   340.0     3.60    15.30    99.00    99.00
 9 10 19  2    15.0 1   354.0     2.60    14.60    99.00    99.00
 9 10 19  3    15.0 1     0.0     0.00    14.00    99.00    99.00
 9 10 19  4    15.0 1     0.0     0.00    13.40    99.00    99.00
 9 10 19  5    15.0 1   334.0     0.50    12.90    99.00    99.00
 9 10 19  6    15.0 1   318.0     0.50    12.60    99.00    99.00
 9 10 19  7    15.0 1     0.0     0.00    12.40    99.00    99.00
 9 10 19  8    15.0 1     0.0     0.00    12.40    99.00    99.00
 9 10 19  9    15.0 1     0.0     0.00    13.10    99.00    99.00
 9 10 19 10    15.0 1     0.0     0.00    14.40    99.00    99.00
 9 10 19 11    15.0 1     0.0     0.00    15.90    99.00    99.00
 9 10 19 12    15.0 1     0.0     0.00    17.40    99.00    99.00
 9 10 19 13    15.0 1   271.0     0.50    18.60    99.00    99.00
 9 10 19 14    15.0 1   283.0     0.50    19.60    99.00    99.00
 9 10 19 15    15.0 1   308.0     1.00    20.10    99.00    99.00
 9 10 19 16    15.0 1   348.0     1.50    20.10    99.00    99.00
 9 10 19 17    15.0 1     8.0     2.60    19.60    99.00    99.00
 9 10 19 18    15.0 1    11.0     3.10    18.80    99.00    99.00
 9 10 19 19    15.0 1     2.0     2.10    17.90    99.00    99.00
 9 10 19 20    15.0 1   294.0     1.50    17.00    99.00    99.00
 9 10 19 21    15.0 1   289.0     3.10    16.10    99.00    99.00
 9 10 19 22    15.0 1   313.0     4.60    14.80    99.00    99.00
 9 10 19 23    15.0 1   332.0     4.60    13.60    99.00    99.00
 9 10 19 24    15.0 1   316.0     3.60    13.30    99.00    99.00
 9 10 20  1    15.0 1   306.0     3.10    13.60    99.00    99.00
 9 10 20  2    15.0 1   310.0     3.10    13.80    99.00    99.00
 9 10 20  3    15.0 1   320.0     2.60    13.60    99.00    99.00
 9 10 20  4    15.0 1   326.0     2.60    13.60    99.00    99.00
 9 10 20  5    15.0 1   324.0     2.60    13.30    99.00    99.00
 9 10 20  6    15.0 1   300.0     2.60    12.60    99.00    99.00
 9 10 20  7    15.0 1   295.0     2.60    11.90    99.00    99.00
 9 10 20  8    15.0 1   310.0     2.10    11.60    99.00    99.00
 9 10 20  9    15.0 1   324.0     2.10    13.50    99.00    99.00
 9 10 20 10    15.0 1   317.0     1.50    14.80    99.00    99.00
 9 10 20 11    15.0 1   324.0     1.00    16.10    99.00    99.00
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 9 10 20 12    15.0 1   316.0     1.00    17.40    99.00    99.00
 9 10 20 13    15.0 1   319.0     1.00    18.50    99.00    99.00
 9 10 20 14    15.0 1   334.0     1.50    19.30    99.00    99.00
 9 10 20 15    15.0 1   344.0     1.50    19.60    99.00    99.00
 9 10 20 16    15.0 1   352.0     2.10    19.80    99.00    99.00
 9 10 20 17    15.0 1    23.0     1.00    19.60    99.00    99.00
 9 10 20 18    15.0 1   111.0     0.50    18.90    99.00    99.00
 9 10 20 19    15.0 1   148.0     1.00    17.60    99.00    99.00
 9 10 20 20    15.0 1   156.0     2.60    16.50    99.00    99.00
 9 10 20 21    15.0 1   156.0     3.10    15.40    99.00    99.00
 9 10 20 22    15.0 1   149.0     3.10    14.60    99.00    99.00
 9 10 20 23    15.0 1   145.0     2.60    14.10    99.00    99.00
 9 10 20 24    15.0 1   127.0     2.60    13.60    99.00    99.00
 9 10 21  1    15.0 1   136.0     2.10    13.10    99.00    99.00
 9 10 21  2    15.0 1   138.0     0.50    12.60    99.00    99.00
 9 10 21  3    15.0 1   280.0     0.50    12.30    99.00    99.00
 9 10 21  4    15.0 1   289.0     1.50    12.10    99.00    99.00
 9 10 21  5    15.0 1   301.0     1.50    11.90    99.00    99.00
 9 10 21  6    15.0 1   293.0     1.50    11.80    99.00    99.00
 9 10 21  7    15.0 1   285.0     1.50    11.80    99.00    99.00
 9 10 21  8    15.0 1   261.0     1.00    11.80    99.00    99.00
 9 10 21  9    15.0 1   322.0     1.50    13.80    99.00    99.00
 9 10 21 10    15.0 1   321.0     0.50    15.60    99.00    99.00
 9 10 21 11    15.0 1   289.0     0.50    17.00    99.00    99.00
 9 10 21 12    15.0 1   286.0     0.50    18.10    99.00    99.00
 9 10 21 13    15.0 1   296.0     1.00    19.30    99.00    99.00
 9 10 21 14    15.0 1   305.0     1.50    20.00    99.00    99.00
 9 10 21 15    15.0 1   306.0     1.50    20.50    99.00    99.00
 9 10 21 16    15.0 1   327.0     2.10    20.60    99.00    99.00
 9 10 21 17    15.0 1   356.0     1.50    20.40    99.00    99.00
 9 10 21 18    15.0 1    46.0     0.50    19.50    99.00    99.00
 9 10 21 19    15.0 1   165.0     0.50    18.10    99.00    99.00
 9 10 21 20    15.0 1   162.0     1.00    17.00    99.00    99.00
 9 10 21 21    15.0 1   152.0     2.10    16.10    99.00    99.00
 9 10 21 22    15.0 1   150.0     2.60    15.40    99.00    99.00
 9 10 21 23    15.0 1   138.0     2.10    14.80    99.00    99.00
 9 10 21 24    15.0 1   123.0     1.50    14.10    99.00    99.00
 9 10 22  1    15.0 1   113.0     1.00    13.60    99.00    99.00
 9 10 22  2    15.0 1     0.0     0.00    13.10    99.00    99.00
 9 10 22  3    15.0 1     0.0     0.00    12.60    99.00    99.00
 9 10 22  4    15.0 1   231.0     0.50    12.10    99.00    99.00
 9 10 22  5    15.0 1   254.0     0.50    12.00    99.00    99.00
 9 10 22  6    15.0 1   257.0     1.00    11.80    99.00    99.00
 9 10 22  7    15.0 1   256.0     1.00    11.60    99.00    99.00
 9 10 22  8    15.0 1   269.0     1.00    12.10    99.00    99.00
 9 10 22  9    15.0 1   291.0     0.50    14.40    99.00    99.00
 9 10 22 10    15.0 1     0.0     0.00    16.50    99.00    99.00
 9 10 22 11    15.0 1     0.0     0.00    18.10    99.00    99.00
 9 10 22 12    15.0 1   299.0     0.50    19.60    99.00    99.00
 9 10 22 13    15.0 1   321.0     0.50    20.90    99.00    99.00
 9 10 22 14    15.0 1   345.0     1.50    21.80    99.00    99.00
 9 10 22 15    15.0 1   355.0     2.10    22.30    99.00    99.00
 9 10 22 16    15.0 1   353.0     3.10    23.10    99.00    99.00
 9 10 22 17    15.0 1   352.0     3.10    22.60    99.00    99.00
 9 10 22 18    15.0 1     4.0     2.60    21.50    99.00    99.00
 9 10 22 19    15.0 1   344.0     1.00    20.40    99.00    99.00
 9 10 22 20    15.0 1     0.0     0.00    19.10    99.00    99.00
 9 10 22 21    15.0 1     0.0     0.00    18.10    99.00    99.00
 9 10 22 22    15.0 1     0.0     0.00    17.10    99.00    99.00
 9 10 22 23    15.0 1    87.0     0.50    16.50    99.00    99.00
 9 10 22 24    15.0 1     0.0     0.00    15.80    99.00    99.00
 9 10 23  1    15.0 1     0.0     0.00    15.40    99.00    99.00
 9 10 23  2    15.0 1     0.0     0.00    15.00    99.00    99.00
 9 10 23  3    15.0 1   328.0     0.50    14.60    99.00    99.00
 9 10 23  4    15.0 1   317.0     1.00    14.40    99.00    99.00
 9 10 23  5    15.0 1   305.0     1.50    14.10    99.00    99.00
 9 10 23  6    15.0 1   283.0     2.10    14.00    99.00    99.00
 9 10 23  7    15.0 1   282.0     2.60    13.80    99.00    99.00
 9 10 23  8    15.0 1   283.0     2.10    14.40    99.00    99.00
 9 10 23  9    15.0 1   302.0     2.10    16.80    99.00    99.00
 9 10 23 10    15.0 1   286.0     1.00    18.60    99.00    99.00
 9 10 23 11    15.0 1   283.0     0.50    20.60    99.00    99.00
 9 10 23 12    15.0 1   276.0     0.50    22.10    99.00    99.00
 9 10 23 13    15.0 1   296.0     0.50    23.10    99.00    99.00
 9 10 23 14    15.0 1   310.0     1.00    24.00    99.00    99.00
 9 10 23 15    15.0 1   335.0     1.50    24.40    99.00    99.00
 9 10 23 16    15.0 1   341.0     2.10    24.30    99.00    99.00
```

```
 9 10 23 17    15.0 1     0.0     0.00    23.50    99.00    99.00
 9 10 23 18    15.0 1    21.0     2.60    22.30    99.00    99.00
 9 10 23 19    15.0 1    38.0     1.00    21.10    99.00    99.00
 9 10 23 20    15.0 1     0.0     0.00    20.00    99.00    99.00
 9 10 23 21    15.0 1     0.0     0.00    19.10    99.00    99.00
 9 10 23 22    15.0 1     0.0     0.00    18.60    99.00    99.00
 9 10 23 23    15.0 1     0.0     0.00    18.30    99.00    99.00
 9 10 23 24    15.0 1     0.0     0.00    17.90    99.00    99.00
 9 10 24  1    15.0 1     0.0     0.00    17.60    99.00    99.00
 9 10 24  2    15.0 1     0.0     0.00    17.40    99.00    99.00
 9 10 24  3    15.0 1   300.0     0.50    17.30    99.00    99.00
 9 10 24  4    15.0 1   302.0     1.00    17.10    99.00    99.00
 9 10 24  5    15.0 1   305.0     1.50    16.90    99.00    99.00
 9 10 24  6    15.0 1   300.0     1.50    16.50    99.00    99.00
 9 10 24  7    15.0 1   293.0     1.00    15.90    99.00    99.00
 9 10 24  8    15.0 1   292.0     1.00    16.10    99.00    99.00
 9 10 24  9    15.0 1   319.0     0.50    17.90    99.00    99.00
 9 10 24 10    15.0 1     0.0     0.00    19.60    99.00    99.00
 9 10 24 11    15.0 1     0.0     0.00    21.00    99.00    99.00
 9 10 24 12    15.0 1   290.0     0.50    22.30    99.00    99.00
 9 10 24 13    15.0 1   308.0     1.50    23.40    99.00    99.00
 9 10 24 14    15.0 1   321.0     2.10    24.00    99.00    99.00
 9 10 24 15    15.0 1   326.0     2.60    24.30    99.00    99.00
 9 10 24 16    15.0 1   342.0     2.60    24.10    99.00    99.00
 9 10 24 17    15.0 1   347.0     2.60    23.60    99.00    99.00
 9 10 24 18    15.0 1   354.0     1.50    22.80    99.00    99.00
 9 10 24 19    15.0 1   243.0     0.50    21.80    99.00    99.00
 9 10 24 20    15.0 1   244.0     0.50    20.80    99.00    99.00
 9 10 24 21    15.0 1   265.0     1.00    19.90    99.00    99.00
 9 10 24 22    15.0 1   271.0     1.00    19.10    99.00    99.00
 9 10 24 23    15.0 1   295.0     1.00    18.50    99.00    99.00
 9 10 24 24    15.0 1   294.0     1.00    17.90    99.00    99.00
 9 10 25  1    15.0 1   288.0     1.00    17.50    99.00    99.00
 9 10 25  2    15.0 1   267.0     1.50    17.00    99.00    99.00
 9 10 25  3    15.0 1   263.0     2.60    16.40    99.00    99.00
 9 10 25  4    15.0 1   272.0     3.60    15.60    99.00    99.00
 9 10 25  5    15.0 1   285.0     3.60    14.60    99.00    99.00
 9 10 25  6    15.0 1   284.0     3.60    14.00    99.00    99.00
 9 10 25  7    15.0 1   273.0     3.10    13.50    99.00    99.00
 9 10 25  8    15.0 1   293.0     2.60    14.00    99.00    99.00
 9 10 25  9    15.0 1   305.0     2.10    15.80    99.00    99.00
 9 10 25 10    15.0 1   279.0     1.00    17.40    99.00    99.00
 9 10 25 11    15.0 1   271.0     1.50    19.40    99.00    99.00
 9 10 25 12    15.0 1   279.0     1.50    20.60    99.00    99.00
 9 10 25 13    15.0 1   298.0     2.10    21.80    99.00    99.00
 9 10 25 14    15.0 1   325.0     2.60    22.60    99.00    99.00
 9 10 25 15    15.0 1   335.0     2.60    23.10    99.00    99.00
 9 10 25 16    15.0 1   335.0     2.60    23.10    99.00    99.00
 9 10 25 17    15.0 1   336.0     2.60    22.60    99.00    99.00
 9 10 25 18    15.0 1   341.0     2.10    21.60    99.00    99.00
 9 10 25 19    15.0 1   318.0     0.50    20.40    99.00    99.00
 9 10 25 20    15.0 1   199.0     0.50    19.10    99.00    99.00
 9 10 25 21    15.0 1   206.0     1.00    18.10    99.00    99.00
 9 10 25 22    15.0 1     0.0     0.00    17.30    99.00    99.00
 9 10 25 23    15.0 1     0.0     0.00    16.50    99.00    99.00
 9 10 25 24    15.0 1     0.0     0.00    15.90    99.00    99.00
 9 10 26  1    15.0 1     0.0     0.00    15.40    99.00    99.00
 9 10 26  2    15.0 1    29.0     0.50    15.10    99.00    99.00
 9 10 26  3    15.0 1   336.0     0.50    14.90    99.00    99.00
 9 10 26  4    15.0 1   327.0     1.00    14.60    99.00    99.00
 9 10 26  5    15.0 1   320.0     1.50    14.60    99.00    99.00
 9 10 26  6    15.0 1   319.0     1.50    14.50    99.00    99.00
 9 10 26  7    15.0 1   306.0     1.00    14.10    99.00    99.00
 9 10 26  8    15.0 1   290.0     1.00    14.30    99.00    99.00
 9 10 26  9    15.0 1   307.0     2.10    16.50    99.00    99.00
 9 10 26 10    15.0 1   296.0     1.50    18.30    99.00    99.00
 9 10 26 11    15.0 1   299.0     1.00    20.10    99.00    99.00
 9 10 26 12    15.0 1   309.0     1.00    21.90    99.00    99.00
 9 10 26 13    15.0 1   330.0     1.00    22.90    99.00    99.00
 9 10 26 14    15.0 1   345.0     1.00    23.60    99.00    99.00
 9 10 26 15    15.0 1   352.0     1.50    23.90    99.00    99.00
 9 10 26 16    15.0 1   359.0     1.50    23.50    99.00    99.00
 9 10 26 17    15.0 1     0.0     0.00    22.60    99.00    99.00
 9 10 26 18    15.0 1    23.0     0.50    21.40    99.00    99.00
 9 10 26 19    15.0 1     0.0     0.00    20.30    99.00    99.00
 9 10 26 20    15.0 1   310.0     0.50    19.30    99.00    99.00
 9 10 26 21    15.0 1   329.0     2.10    18.60    99.00    99.00
```

9	10	26	22	15.0	1	345.0	4.60	17.30	99.00	99.00
9	10	26	23	15.0	1	332.0	4.60	15.90	99.00	99.00
9	10	26	24	15.0	1	335.0	4.60	14.80	99.00	99.00
9	10	27	1	15.0	1	309.0	4.10	14.40	99.00	99.00
9	10	27	2	15.0	1	309.0	3.60	14.30	99.00	99.00
9	10	27	3	15.0	1	308.0	2.60	14.10	99.00	99.00
9	10	27	4	15.0	1	317.0	2.60	13.80	99.00	99.00
9	10	27	5	15.0	1	324.0	2.60	13.30	99.00	99.00
9	10	27	6	15.0	1	318.0	3.10	12.60	99.00	99.00
9	10	27	7	15.0	1	315.0	2.10	12.30	99.00	99.00
9	10	27	8	15.0	1	332.0	5.10	12.40	99.00	99.00
9	10	27	9	15.0	1	338.0	7.70	13.50	99.00	99.00
9	10	27	10	15.0	1	334.0	8.20	14.60	99.00	99.00
9	10	27	11	15.0	1	334.0	8.20	15.60	99.00	99.00
9	10	27	12	15.0	1	327.0	9.30	16.10	99.00	99.00
9	10	27	13	15.0	1	335.0	9.30	16.80	99.00	99.00
9	10	27	14	15.0	1	335.0	10.30	17.10	99.00	99.00
9	10	27	15	15.0	1	334.0	9.30	17.00	99.00	99.00
9	10	27	16	15.0	1	325.0	7.20	16.00	99.00	99.00
9	10	27	17	15.0	1	321.0	6.70	13.90	99.00	99.00
9	10	27	18	15.0	1	335.0	10.80	12.30	99.00	99.00
9	10	27	19	15.0	1	329.0	10.30	11.60	99.00	99.00
9	10	27	20	15.0	1	339.0	8.20	10.90	99.00	99.00
9	10	27	21	15.0	1	339.0	7.20	10.10	99.00	99.00
9	10	27	22	15.0	1	339.0	6.20	9.60	99.00	99.00
9	10	27	23	15.0	1	343.0	5.70	8.90	99.00	99.00
9	10	27	24	15.0	1	330.0	5.70	8.30	99.00	99.00
9	10	28	1	15.0	1	335.0	5.10	7.80	99.00	99.00
9	10	28	2	15.0	1	329.0	5.10	7.30	99.00	99.00
9	10	28	3	15.0	1	329.0	5.10	6.80	99.00	99.00
9	10	28	4	15.0	1	320.0	5.10	6.40	99.00	99.00
9	10	28	5	15.0	1	320.0	5.10	6.00	99.00	99.00
9	10	28	6	15.0	1	325.0	4.60	5.60	99.00	99.00
9	10	28	7	15.0	1	316.0	4.60	5.40	99.00	99.00
9	10	28	8	15.0	1	335.0	5.70	6.80	99.00	99.00
9	10	28	9	15.0	1	333.0	8.20	9.60	99.00	99.00
9	10	28	10	15.0	1	327.0	7.70	11.40	99.00	99.00
9	10	28	11	15.0	1	337.0	7.20	12.60	99.00	99.00
9	10	28	12	15.0	1	338.0	6.70	13.40	99.00	99.00
9	10	28	13	15.0	1	331.0	6.20	14.00	99.00	99.00
9	10	28	14	15.0	1	326.0	5.70	14.40	99.00	99.00
9	10	28	15	15.0	1	326.0	5.10	14.80	99.00	99.00
9	10	28	16	15.0	1	318.0	3.60	14.60	99.00	99.00
9	10	28	17	15.0	1	300.0	2.10	14.10	99.00	99.00
9	10	28	18	15.0	1	256.0	1.50	13.30	99.00	99.00
9	10	28	19	15.0	1	223.0	0.50	12.60	99.00	99.00
9	10	28	20	15.0	1	238.0	1.00	11.80	99.00	99.00
9	10	28	21	15.0	1	235.0	2.60	10.90	99.00	99.00
9	10	28	22	15.0	1	234.0	3.60	9.60	99.00	99.00
9	10	28	23	15.0	1	220.0	3.10	8.60	99.00	99.00
9	10	28	24	15.0	1	229.0	2.10	8.00	99.00	99.00
9	10	29	1	15.0	1	259.0	1.50	7.10	99.00	99.00
9	10	29	2	15.0	1	278.0	1.50	6.50	99.00	99.00
9	10	29	3	15.0	1	289.0	2.10	6.00	99.00	99.00
9	10	29	4	15.0	1	293.0	2.60	5.60	99.00	99.00
9	10	29	5	15.0	1	295.0	2.60	5.40	99.00	99.00
9	10	29	6	15.0	1	294.0	2.10	5.10	99.00	99.00
9	10	29	7	15.0	1	279.0	1.50	4.90	99.00	99.00
9	10	29	8	15.0	1	268.0	1.00	5.10	99.00	99.00
9	10	29	9	15.0	1	353.0	0.50	7.60	99.00	99.00
9	10	29	10	15.0	1	0.0	0.00	9.50	99.00	99.00
9	10	29	11	15.0	1	0.0	0.00	11.00	99.00	99.00
9	10	29	12	15.0	1	0.0	0.00	12.30	99.00	99.00
9	10	29	13	15.0	1	306.0	0.50	13.60	99.00	99.00
9	10	29	14	15.0	1	316.0	1.00	14.60	99.00	99.00
9	10	29	15	15.0	1	333.0	1.50	15.10	99.00	99.00
9	10	29	16	15.0	1	343.0	1.50	15.10	99.00	99.00
9	10	29	17	15.0	1	342.0	1.00	14.90	99.00	99.00
9	10	29	18	15.0	1	0.0	0.00	13.90	99.00	99.00
9	10	29	19	15.0	1	0.0	0.00	12.60	99.00	99.00
9	10	29	20	15.0	1	166.0	0.50	11.60	99.00	99.00
9	10	29	21	15.0	1	162.0	1.50	10.60	99.00	99.00
9	10	29	22	15.0	1	148.0	1.50	10.10	99.00	99.00
9	10	29	23	15.0	1	131.0	1.50	9.60	99.00	99.00
9	10	29	24	15.0	1	125.0	1.50	9.10	99.00	99.00
9	10	30	1	15.0	1	120.0	1.50	8.80	99.00	99.00
9	10	30	2	15.0	1	115.0	1.00	8.40	99.00	99.00

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 9 10 30  3    15.0 1    83.0     0.50     8.00    99.00    99.00
 9 10 30  4    15.0 1     0.0     0.00     7.50    99.00    99.00
 9 10 30  5    15.0 1   198.0     0.50     7.10    99.00    99.00
 9 10 30  6    15.0 1   216.0     0.50     6.90    99.00    99.00
 9 10 30  7    15.0 1     0.0     0.00     6.90    99.00    99.00
 9 10 30  8    15.0 1    89.0     0.50     7.10    99.00    99.00
 9 10 30  9    15.0 1     0.0     0.00    10.10    99.00    99.00
 9 10 30 10    15.0 1     0.0     0.00    12.80    99.00    99.00
 9 10 30 11    15.0 1     0.0     0.00    14.80    99.00    99.00
 9 10 30 12    15.0 1     0.0     0.00    16.50    99.00    99.00
 9 10 30 13    15.0 1   333.0     0.50    17.60    99.00    99.00
 9 10 30 14    15.0 1   338.0     0.50    18.50    99.00    99.00
 9 10 30 15    15.0 1   353.0     1.00    19.00    99.00    99.00
 9 10 30 16    15.0 1   349.0     1.50    19.00    99.00    99.00
 9 10 30 17    15.0 1   354.0     1.50    18.50    99.00    99.00
 9 10 30 18    15.0 1   354.0     1.00    17.10    99.00    99.00
 9 10 30 19    15.0 1     0.0     0.00    15.90    99.00    99.00
 9 10 30 20    15.0 1     0.0     0.00    14.60    99.00    99.00
 9 10 30 21    15.0 1     0.0     0.00    13.60    99.00    99.00
 9 10 30 22    15.0 1     0.0     0.00    12.60    99.00    99.00
 9 10 30 23    15.0 1     0.0     0.00    12.00    99.00    99.00
 9 10 30 24    15.0 1     0.0     0.00    11.40    99.00    99.00
 9 10 31  1    15.0 1     0.0     0.00    10.80    99.00    99.00
 9 10 31  2    15.0 1     0.0     0.00    10.30    99.00    99.00
 9 10 31  3    15.0 1     0.0     0.00     9.90    99.00    99.00
 9 10 31  4    15.0 1     0.0     0.00     9.60    99.00    99.00
 9 10 31  5    15.0 1   280.0     0.50     9.40    99.00    99.00
 9 10 31  6    15.0 1   277.0     1.00     9.30    99.00    99.00
 9 10 31  7    15.0 1   285.0     1.00     9.10    99.00    99.00
 9 10 31  8    15.0 1   281.0     1.00     9.50    99.00    99.00
 9 10 31  9    15.0 1   296.0     1.50    12.50    99.00    99.00
 9 10 31 10    15.0 1   304.0     1.00    14.40    99.00    99.00
 9 10 31 11    15.0 1   299.0     0.50    16.50    99.00    99.00
 9 10 31 12    15.0 1   301.0     0.50    18.00    99.00    99.00
 9 10 31 13    15.0 1   315.0     0.50    19.10    99.00    99.00
 9 10 31 14    15.0 1   334.0     1.00    20.00    99.00    99.00
 9 10 31 15    15.0 1   340.0     1.00    20.50    99.00    99.00
 9 10 31 16    15.0 1   351.0     1.50    20.50    99.00    99.00
 9 10 31 17    15.0 1   359.0     1.00    20.00    99.00    99.00
 9 10 31 18    15.0 1     0.0     0.00    18.80    99.00    99.00
 9 10 31 19    15.0 1     0.0     0.00    17.30    99.00    99.00
 9 10 31 20    15.0 1     0.0     0.00    16.10    99.00    99.00
 9 10 31 21    15.0 1     0.0     0.00    15.00    99.00    99.00
 9 10 31 22    15.0 1     0.0     0.00    14.10    99.00    99.00
 9 10 31 23    15.0 1    94.0     0.50    13.30    99.00    99.00
 9 10 31 24    15.0 1     0.0     0.00    12.60    99.00    99.00
 9 11  1  1    15.0 1     0.0     0.00    12.10    99.00    99.00
 9 11  1  2    15.0 1     0.0     0.00    11.60    99.00    99.00
 9 11  1  3    15.0 1     0.0     0.00    11.10    99.00    99.00
 9 11  1  4    15.0 1     0.0     0.00    10.60    99.00    99.00
 9 11  1  5    15.0 1     0.0     0.00     9.60    99.00    99.00
 9 11  1  6    15.0 1     0.0     0.00     9.00    99.00    99.00
 9 11  1  7    15.0 1     0.0     0.00     7.90    99.00    99.00
 9 11  1  8    15.0 1     0.0     0.00     7.90    99.00    99.00
 9 11  1  9    15.0 1     0.0     0.00     9.50    99.00    99.00
 9 11  1 10    15.0 1     0.0     0.00    12.80    99.00    99.00
 9 11  1 11    15.0 1     0.0     0.00    15.90    99.00    99.00
 9 11  1 12    15.0 1     0.0     0.00    18.10    99.00    99.00
 9 11  1 13    15.0 1   342.0     0.50    20.30    99.00    99.00
 9 11  1 14    15.0 1   347.0     1.00    21.40    99.00    99.00
 9 11  1 15    15.0 1    11.0     2.10    21.80    99.00    99.00
 9 11  1 16    15.0 1     9.0     2.10    23.80    99.00    99.00
 9 11  1 17    15.0 1    21.0     2.10    23.10    99.00    99.00
 9 11  1 18    15.0 1    19.0     1.00    21.80    99.00    99.00
 9 11  1 19    15.0 1   246.0     0.50    20.40    99.00    99.00
 9 11  1 20    15.0 1   235.0     0.50    19.10    99.00    99.00
 9 11  1 21    15.0 1     0.0     0.00    18.10    99.00    99.00
 9 11  1 22    15.0 1     0.0     0.00    17.10    99.00    99.00
 9 11  1 23    15.0 1    72.0     0.50    16.40    99.00    99.00
 9 11  1 24    15.0 1     0.0     0.00    15.60    99.00    99.00
 9 11  2  1    15.0 1     0.0     0.00    15.30    99.00    99.00
 9 11  2  2    15.0 1     0.0     0.00    14.80    99.00    99.00
 9 11  2  3    15.0 1     0.0     0.00    14.30    99.00    99.00
 9 11  2  4    15.0 1     0.0     0.00    13.80    99.00    99.00
 9 11  2  5    15.0 1     0.0     0.00    13.40    99.00    99.00
 9 11  2  6    15.0 1     0.0     0.00    13.10    99.00    99.00
 9 11  2  7    15.0 1     0.0     0.00    12.40    99.00    99.00
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 9 11   2  8     15.0 1      0.0      0.00    11.80     99.00    99.00
 9 11   2  9     15.0 1      0.0      0.00    13.50     99.00    99.00
 9 11   2 10     15.0 1      0.0      0.00    17.10     99.00    99.00
 9 11   2 11     15.0 1      0.0      0.00    19.50     99.00    99.00
 9 11   2 12     15.0 1    323.0      0.50    21.50     99.00    99.00
 9 11   2 13     15.0 1    319.0      1.00    22.90     99.00    99.00
 9 11   2 14     15.0 1    332.0      1.00    23.60     99.00    99.00
 9 11   2 15     15.0 1    338.0      1.50    24.10     99.00    99.00
 9 11   2 16     15.0 1    360.0      1.50    24.10     99.00    99.00
 9 11   2 17     15.0 1     12.0      0.50    23.40     99.00    99.00
 9 11   2 18     15.0 1      0.0      0.00    22.00     99.00    99.00
 9 11   2 19     15.0 1      0.0      0.00    20.60     99.00    99.00
 9 11   2 20     15.0 1      0.0      0.00    19.50     99.00    99.00
 9 11   2 21     15.0 1      0.0      0.00    18.30     99.00    99.00
 9 11   2 22     15.0 1      0.0      0.00    17.40     99.00    99.00
 9 11   2 23     15.0 1     75.0      0.50    16.60     99.00    99.00
 9 11   2 24     15.0 1     70.0      0.50    15.90     99.00    99.00
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 9 11   3  3     15.0 1      0.0      0.00    14.50     99.00    99.00
 9 11   3  4     15.0 1      0.0      0.00    14.00     99.00    99.00
 9 11   3  5     15.0 1      0.0      0.00    13.60     99.00    99.00
 9 11   3  6     15.0 1      0.0      0.00    13.30     99.00    99.00
 9 11   3  7     15.0 1    298.0      0.50    13.00     99.00    99.00
 9 11   3  8     15.0 1    300.0      1.00    13.00     99.00    99.00
 9 11   3  9     15.0 1    310.0      1.50    16.00     99.00    99.00
 9 11   3 10     15.0 1    314.0      2.10    17.80     99.00    99.00
 9 11   3 11     15.0 1    321.0      1.50    20.00     99.00    99.00
 9 11   3 12     15.0 1    330.0      1.50    21.80     99.00    99.00
 9 11   3 13     15.0 1    343.0      1.50    23.40     99.00    99.00
 9 11   3 14     15.0 1    345.0      1.50    24.60     99.00    99.00
 9 11   3 15     15.0 1      0.0      0.00    25.00     99.00    99.00
 9 11   3 16     15.0 1     22.0      2.10    24.60     99.00    99.00
 9 11   3 17     15.0 1     29.0      2.60    23.90     99.00    99.00
 9 11   3 18     15.0 1     24.0      1.50    22.60     99.00    99.00
 9 11   3 19     15.0 1    304.0      0.50    21.10     99.00    99.00
 9 11   3 20     15.0 1      0.0      0.00    19.80     99.00    99.00
 9 11   3 21     15.0 1      0.0      0.00    18.90     99.00    99.00
 9 11   3 22     15.0 1    336.0      0.50    18.10     99.00    99.00
 9 11   3 23     15.0 1    347.0      1.00    17.40     99.00    99.00
 9 11   3 24     15.0 1      4.0      1.00    16.80     99.00    99.00
 9 11   4  1     15.0 1    359.0      1.00    16.30     99.00    99.00
 9 11   4  2     15.0 1    343.0      1.00    15.90     99.00    99.00
 9 11   4  3     15.0 1    318.0      1.50    15.80     99.00    99.00
 9 11   4  4     15.0 1    332.0      1.50    15.90     99.00    99.00
 9 11   4  5     15.0 1    330.0      2.10    15.80     99.00    99.00
 9 11   4  6     15.0 1    322.0      2.60    15.90     99.00    99.00
 9 11   4  7     15.0 1    345.0      2.60    15.90     99.00    99.00
 9 11   4  8     15.0 1    350.0      2.60    15.90     99.00    99.00
 9 11   4  9     15.0 1      0.0      0.00    16.30     99.00    99.00
 9 11   4 10     15.0 1      6.0      2.60    17.60     99.00    99.00
 9 11   4 11     15.0 1    345.0      3.60    18.90     99.00    99.00
 9 11   4 12     15.0 1    326.0      4.60    18.50     99.00    99.00
 9 11   4 13     15.0 1    342.0      5.70    17.80     99.00    99.00
 9 11   4 14     15.0 1    344.0      4.10    18.10     99.00    99.00
 9 11   4 15     15.0 1    300.0      2.10    19.60     99.00    99.00
 9 11   4 16     15.0 1    284.0      3.10    20.10     99.00    99.00
 9 11   4 17     15.0 1    295.0      3.10    19.60     99.00    99.00
 9 11   4 18     15.0 1    265.0      2.10    20.00     99.00    99.00
 9 11   4 19     15.0 1    256.0      2.60    19.60     99.00    99.00
 9 11   4 20     15.0 1    276.0      4.60    17.80     99.00    99.00
 9 11   4 21     15.0 1    288.0      4.10    16.60     99.00    99.00
 9 11   4 22     15.0 1    297.0      3.60    16.30     99.00    99.00
 9 11   4 23     15.0 1    307.0      4.10    16.10     99.00    99.00
 9 11   4 24     15.0 1    318.0      4.10    15.60     99.00    99.00
 9 11   5  1     15.0 1    339.0      4.10    15.30     99.00    99.00
 9 11   5  2     15.0 1     10.0      4.10    14.90     99.00    99.00
 9 11   5  3     15.0 1     19.0      4.10    14.40     99.00    99.00
 9 11   5  4     15.0 1     20.0      4.10    14.10     99.00    99.00
 9 11   5  5     15.0 1     17.0      3.60    13.90     99.00    99.00
 9 11   5  6     15.0 1     21.0      3.10    13.90     99.00    99.00
 9 11   5  7     15.0 1     19.0      2.10    13.90     99.00    99.00
 9 11   5  8     15.0 1      7.0      1.50    13.80     99.00    99.00
 9 11   5  9     15.0 1      5.0      1.50    14.80     99.00    99.00
 9 11   5 10     15.0 1      0.0      0.00    16.60     99.00    99.00
 9 11   5 11     15.0 1     12.0      1.00    18.10     99.00    99.00
 9 11   5 12     15.0 1     25.0      0.50    19.90     99.00    99.00
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 9 11   5 13     15.0 1    19.0     0.50    21.10    99.00    99.00
 9 11   5 14     15.0 1    16.0     0.50    21.90    99.00    99.00
 9 11   5 15     15.0 1    20.0     1.00    22.10    99.00    99.00
 9 11   5 16     15.0 1    18.0     1.50    22.30    99.00    99.00
 9 11   5 17     15.0 1     8.0     2.60    21.60    99.00    99.00
 9 11   5 18     15.0 1    14.0     3.10    20.50    99.00    99.00
 9 11   5 19     15.0 1   316.0     3.10    19.80    99.00    99.00
 9 11   5 20     15.0 1   299.0     4.60    18.50    99.00    99.00
 9 11   5 21     15.0 1   286.0     4.10    17.30    99.00    99.00
 9 11   5 22     15.0 1   287.0     3.60    16.50    99.00    99.00
 9 11   5 23     15.0 1   288.0     3.10    16.00    99.00    99.00
 9 11   5 24     15.0 1   319.0     1.50    15.80    99.00    99.00
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 9 11   6  2     15.0 1    61.0     1.50    15.60    99.00    99.00
 9 11   6  3     15.0 1    50.0     0.50    15.60    99.00    99.00
 9 11   6  4     15.0 1   324.0     0.50    15.40    99.00    99.00
 9 11   6  5     15.0 1   285.0     1.00    15.30    99.00    99.00
 9 11   6  6     15.0 1   282.0     2.10    15.10    99.00    99.00
 9 11   6  7     15.0 1   287.0     2.10    15.10    99.00    99.00
 9 11   6  8     15.0 1   292.0     2.10    14.90    99.00    99.00
 9 11   6  9     15.0 1   308.0     2.60    15.00    99.00    99.00
 9 11   6 10     15.0 1   334.0     1.50    15.50    99.00    99.00
 9 11   6 11     15.0 1   318.0     0.50    16.00    99.00    99.00
 9 11   6 12     15.0 1   283.0     0.50    17.30    99.00    99.00
 9 11   6 13     15.0 1   277.0     1.00    18.10    99.00    99.00
 9 11   6 14     15.0 1   277.0     1.00    18.90    99.00    99.00
 9 11   6 15     15.0 1   315.0     1.00    19.40    99.00    99.00
 9 11   6 16     15.0 1    14.0     1.50    18.10    99.00    99.00
 9 11   6 17     15.0 1    19.0     2.60    17.50    99.00    99.00
 9 11   6 18     15.0 1    26.0     2.60    16.60    99.00    99.00
 9 11   6 19     15.0 1    35.0     2.60    15.60    99.00    99.00
 9 11   6 20     15.0 1    27.0     1.50    14.80    99.00    99.00
 9 11   6 21     15.0 1   360.0     1.00    14.00    99.00    99.00
 9 11   6 22     15.0 1   335.0     1.50    13.30    99.00    99.00
 9 11   6 23     15.0 1   331.0     2.10    12.60    99.00    99.00
 9 11   6 24     15.0 1   343.0     2.60    12.10    99.00    99.00
 9 11   7  1     15.0 1   340.0     3.10    11.60    99.00    99.00
 9 11   7  2     15.0 1   327.0     2.60    11.30    99.00    99.00
 9 11   7  3     15.0 1   320.0     2.10    11.60    99.00    99.00
 9 11   7  4     15.0 1   310.0     2.10    11.80    99.00    99.00
 9 11   7  5     15.0 1   299.0     2.10    12.00    99.00    99.00
 9 11   7  6     15.0 1   301.0     2.10    12.10    99.00    99.00
 9 11   7  7     15.0 1   289.0     2.10    12.10    99.00    99.00
 9 11   7  8     15.0 1   287.0     2.10    12.10    99.00    99.00
 9 11   7  9     15.0 1   305.0     2.10    12.10    99.00    99.00
 9 11   7 10     15.0 1   329.0     2.60    12.50    99.00    99.00
 9 11   7 11     15.0 1   316.0     2.10    12.80    99.00    99.00
 9 11   7 12     15.0 1   314.0     1.50    13.00    99.00    99.00
 9 11   7 13     15.0 1   290.0     1.00    13.30    99.00    99.00
 9 11   7 14     15.0 1   269.0     0.50    13.50    99.00    99.00
 9 11   7 15     15.0 1   210.0     0.50    13.60    99.00    99.00
 9 11   7 16     15.0 1   153.0     1.00    13.60    99.00    99.00
 9 11   7 17     15.0 1   142.0     2.10    13.50    99.00    99.00
 9 11   7 18     15.0 1   155.0     2.60    13.40    99.00    99.00
 9 11   7 19     15.0 1   164.0     3.10    13.30    99.00    99.00
 9 11   7 20     15.0 1   171.0     2.60    13.10    99.00    99.00
 9 11   7 21     15.0 1   187.0     2.60    12.80    99.00    99.00
 9 11   7 22     15.0 1   197.0     2.10    12.30    99.00    99.00
 9 11   7 23     15.0 1   217.0     1.50    11.60    99.00    99.00
 9 11   7 24     15.0 1   230.0     2.10    10.90    99.00    99.00
 9 11   8  1     15.0 1   226.0     2.60    10.40    99.00    99.00
 9 11   8  2     15.0 1   249.0     3.10     9.80    99.00    99.00
 9 11   8  3     15.0 1   257.0     2.60     9.00    99.00    99.00
 9 11   8  4     15.0 1   278.0     2.60     8.60    99.00    99.00
 9 11   8  5     15.0 1   289.0     2.60     8.30    99.00    99.00
 9 11   8  6     15.0 1   302.0     2.10     7.90    99.00    99.00
 9 11   8  7     15.0 1   297.0     2.10     7.50    99.00    99.00
 9 11   8  8     15.0 1   313.0     2.10     7.40    99.00    99.00
 9 11   8  9     15.0 1   298.0     1.50     7.90    99.00    99.00
 9 11   8 10     15.0 1   314.0     0.50     8.80    99.00    99.00
 9 11   8 11     15.0 1   337.0     0.50    10.60    99.00    99.00
 9 11   8 12     15.0 1   328.0     1.00    12.30    99.00    99.00
 9 11   8 13     15.0 1   329.0     1.00    13.60    99.00    99.00
 9 11   8 14     15.0 1   327.0     1.50    14.60    99.00    99.00
 9 11   8 15     15.0 1   343.0     1.50    15.30    99.00    99.00
 9 11   8 16     15.0 1   338.0     1.50    15.40    99.00    99.00
 9 11   8 17     15.0 1   348.0     1.50    15.00    99.00    99.00
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 9 11  8 18    15.0 1     0.0     0.00    14.00    99.00    99.00
 9 11  8 19    15.0 1     0.0     0.00    12.90    99.00    99.00
 9 11  8 20    15.0 1     0.0     0.00    11.90    99.00    99.00
 9 11  8 21    15.0 1     0.0     0.00    11.10    99.00    99.00
 9 11  8 22    15.0 1     0.0     0.00    10.30    99.00    99.00
 9 11  8 23    15.0 1     0.0     0.00     9.60    99.00    99.00
 9 11  8 24    15.0 1     0.0     0.00     8.80    99.00    99.00
 9 11  9  1    15.0 1     0.0     0.00     7.60    99.00    99.00
 9 11  9  2    15.0 1     0.0     0.00     6.60    99.00    99.00
 9 11  9  3    15.0 1     0.0     0.00     6.00    99.00    99.00
 9 11  9  4    15.0 1     0.0     0.00     5.60    99.00    99.00
 9 11  9  5    15.0 1     0.0     0.00     5.30    99.00    99.00
 9 11  9  6    15.0 1     0.0     0.00     5.00    99.00    99.00
 9 11  9  7    15.0 1     0.0     0.00     4.90    99.00    99.00
 9 11  9  8    15.0 1     0.0     0.00     5.40    99.00    99.00
 9 11  9  9    15.0 1   314.0     1.00     7.80    99.00    99.00
 9 11  9 10    15.0 1   302.0     1.50    10.00    99.00    99.00
 9 11  9 11    15.0 1   311.0     1.50    11.30    99.00    99.00
 9 11  9 12    15.0 1   318.0     1.50    12.80    99.00    99.00
 9 11  9 13    15.0 1   343.0     2.10    13.80    99.00    99.00
 9 11  9 14    15.0 1   352.0     2.10    14.40    99.00    99.00
 9 11  9 15    15.0 1     0.0     0.00    14.60    99.00    99.00
 9 11  9 16    15.0 1   360.0     1.00    14.40    99.00    99.00
 9 11  9 17    15.0 1     0.0     0.00    14.00    99.00    99.00
 9 11  9 18    15.0 1     0.0     0.00    13.30    99.00    99.00
 9 11  9 19    15.0 1     0.0     0.00    12.60    99.00    99.00
 9 11  9 20    15.0 1     0.0     0.00    12.10    99.00    99.00
 9 11  9 21    15.0 1     0.0     0.00    11.60    99.00    99.00
 9 11  9 22    15.0 1     0.0     0.00    11.40    99.00    99.00
 9 11  9 23    15.0 1     0.0     0.00    11.30    99.00    99.00
 9 11  9 24    15.0 1    20.0     0.50    11.10    99.00    99.00
 9 11 10  1    15.0 1     0.0     0.00    11.10    99.00    99.00
 9 11 10  2    15.0 1   295.0     0.50    11.10    99.00    99.00
 9 11 10  3    15.0 1   268.0     0.50    11.00    99.00    99.00
 9 11 10  4    15.0 1   268.0     0.50    11.00    99.00    99.00
 9 11 10  5    15.0 1     0.0     0.00    10.90    99.00    99.00
 9 11 10  6    15.0 1     0.0     0.00    10.80    99.00    99.00
 9 11 10  7    15.0 1     0.0     0.00    10.60    99.00    99.00
 9 11 10  8    15.0 1     0.0     0.00    10.40    99.00    99.00
 9 11 10  9    15.0 1     0.0     0.00    10.80    99.00    99.00
 9 11 10 10    15.0 1     0.0     0.00    12.60    99.00    99.00
 9 11 10 11    15.0 1   302.0     0.50    13.90    99.00    99.00
 9 11 10 12    15.0 1   316.0     0.50    14.90    99.00    99.00
 9 11 10 13    15.0 1   326.0     0.50    15.60    99.00    99.00
 9 11 10 14    15.0 1   352.0     0.50    16.10    99.00    99.00
 9 11 10 15    15.0 1   346.0     1.00    16.10    99.00    99.00
 9 11 10 16    15.0 1   340.0     0.50    15.90    99.00    99.00
 9 11 10 17    15.0 1     0.0     0.00    15.40    99.00    99.00
 9 11 10 18    15.0 1     0.0     0.00    14.60    99.00    99.00
 9 11 10 19    15.0 1     0.0     0.00    14.10    99.00    99.00
 9 11 10 20    15.0 1     0.0     0.00    13.60    99.00    99.00
 9 11 10 21    15.0 1     0.0     0.00    13.10    99.00    99.00
 9 11 10 22    15.0 1     0.0     0.00    12.90    99.00    99.00
 9 11 10 23    15.0 1     0.0     0.00    12.60    99.00    99.00
 9 11 10 24    15.0 1     0.0     0.00    12.60    99.00    99.00
 9 11 11  1    15.0 1     0.0     0.00    12.60    99.00    99.00
 9 11 11  2    15.0 1   282.0     0.50    12.50    99.00    99.00
 9 11 11  3    15.0 1   291.0     0.50    12.50    99.00    99.00
 9 11 11  4    15.0 1     0.0     0.00    12.30    99.00    99.00
 9 11 11  5    15.0 1     0.0     0.00    12.10    99.00    99.00
 9 11 11  6    15.0 1     0.0     0.00    12.00    99.00    99.00
 9 11 11  7    15.0 1   287.0     0.50    11.90    99.00    99.00
 9 11 11  8    15.0 1   320.0     0.50    11.80    99.00    99.00
 9 11 11  9    15.0 1     1.0     0.50    11.90    99.00    99.00
 9 11 11 10    15.0 1   332.0     1.00    13.40    99.00    99.00
 9 11 11 11    15.0 1   323.0     1.00    14.40    99.00    99.00
 9 11 11 12    15.0 1   310.0     0.50    15.40    99.00    99.00
 9 11 11 13    15.0 1     0.0     0.00    16.10    99.00    99.00
 9 11 11 14    15.0 1     0.0     0.00    16.60    99.00    99.00
 9 11 11 15    15.0 1     0.0     0.00    16.80    99.00    99.00
 9 11 11 16    15.0 1   256.0     0.50    18.10    99.00    99.00
 9 11 11 17    15.0 1     0.0     0.00    17.60    99.00    99.00
 9 11 11 18    15.0 1     0.0     0.00    16.90    99.00    99.00
 9 11 11 19    15.0 1     0.0     0.00    16.10    99.00    99.00
 9 11 11 20    15.0 1     0.0     0.00    15.80    99.00    99.00
 9 11 11 21    15.0 1     0.0     0.00    15.50    99.00    99.00
 9 11 11 22    15.0 1   331.0     1.00    15.30    99.00    99.00
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9	11	11	23	15.0	1	336.0	3.60	14.60	99.00	99.00
9	11	11	24	15.0	1	336.0	3.60	13.80	99.00	99.00
9	11	12	1	15.0	1	337.0	3.10	13.50	99.00	99.00
9	11	12	2	15.0	1	330.0	3.10	13.30	99.00	99.00
9	11	12	3	15.0	1	317.0	2.60	13.10	99.00	99.00
9	11	12	4	15.0	1	314.0	2.60	12.90	99.00	99.00
9	11	12	5	15.0	1	302.0	2.60	12.60	99.00	99.00
9	11	12	6	15.0	1	297.0	2.60	12.60	99.00	99.00
9	11	12	7	15.0	1	296.0	3.10	12.60	99.00	99.00
9	11	12	8	15.0	1	299.0	3.10	12.80	99.00	99.00
9	11	12	9	15.0	1	309.0	3.60	12.90	99.00	99.00
9	11	12	10	15.0	1	324.0	4.10	13.00	99.00	99.00
9	11	12	11	15.0	1	324.0	3.60	13.30	99.00	99.00
9	11	12	12	15.0	1	316.0	3.10	13.60	99.00	99.00
9	11	12	13	15.0	1	328.0	2.60	14.50	99.00	99.00
9	11	12	14	15.0	1	335.0	2.60	15.40	99.00	99.00
9	11	12	15	15.0	1	341.0	2.60	15.80	99.00	99.00
9	11	12	16	15.0	1	342.0	2.60	15.90	99.00	99.00
9	11	12	17	15.0	1	321.0	3.10	15.40	99.00	99.00
9	11	12	18	15.0	1	318.0	4.10	13.80	99.00	99.00
9	11	12	19	15.0	1	328.0	4.10	12.10	99.00	99.00
9	11	12	20	15.0	1	330.0	3.60	11.30	99.00	99.00
9	11	12	21	15.0	1	327.0	3.10	10.80	99.00	99.00
9	11	12	22	15.0	1	321.0	2.10	10.10	99.00	99.00
9	11	12	23	15.0	1	298.0	2.10	9.60	99.00	99.00
9	11	12	24	15.0	1	288.0	2.10	9.30	99.00	99.00
9	11	13	1	15.0	1	297.0	2.60	8.90	99.00	99.00
9	11	13	2	15.0	1	312.0	2.60	8.40	99.00	99.00
9	11	13	3	15.0	1	315.0	2.10	7.80	99.00	99.00
9	11	13	4	15.0	1	311.0	2.10	7.30	99.00	99.00
9	11	13	5	15.0	1	308.0	2.10	6.80	99.00	99.00
9	11	13	6	15.0	1	294.0	2.10	6.40	99.00	99.00
9	11	13	7	15.0	1	293.0	2.10	6.10	99.00	99.00
9	11	13	8	15.0	1	294.0	2.10	5.90	99.00	99.00
9	11	13	9	15.0	1	343.0	3.60	7.90	99.00	99.00
9	11	13	10	15.0	1	339.0	2.60	9.30	99.00	99.00
9	11	13	11	15.0	1	323.0	1.50	10.30	99.00	99.00
9	11	13	12	15.0	1	300.0	1.50	11.30	99.00	99.00
9	11	13	13	15.0	1	303.0	1.50	12.10	99.00	99.00
9	11	13	14	15.0	1	301.0	2.10	12.90	99.00	99.00
9	11	13	15	15.0	1	315.0	2.60	13.10	99.00	99.00
9	11	13	16	15.0	1	334.0	2.60	13.10	99.00	99.00
9	11	13	17	15.0	1	350.0	2.10	12.50	99.00	99.00
9	11	13	18	15.0	1	7.0	1.50	11.60	99.00	99.00
9	11	13	19	15.0	1	63.0	0.50	10.60	99.00	99.00
9	11	13	20	15.0	1	147.0	0.50	9.40	99.00	99.00
9	11	13	21	15.0	1	149.0	1.50	8.30	99.00	99.00
9	11	13	22	15.0	1	142.0	1.50	7.50	99.00	99.00
9	11	13	23	15.0	1	134.0	1.50	6.90	99.00	99.00
9	11	13	24	15.0	1	128.0	2.10	6.40	99.00	99.00
9	11	14	1	15.0	1	135.0	2.60	6.00	99.00	99.00
9	11	14	2	15.0	1	132.0	2.10	5.60	99.00	99.00
9	11	14	3	15.0	1	127.0	2.10	5.30	99.00	99.00
9	11	14	4	15.0	1	143.0	1.50	5.00	99.00	99.00
9	11	14	5	15.0	1	140.0	1.50	4.60	99.00	99.00
9	11	14	6	15.0	1	138.0	1.00	4.40	99.00	99.00
9	11	14	7	15.0	1	142.0	0.50	4.10	99.00	99.00
9	11	14	8	15.0	1	135.0	0.50	4.00	99.00	99.00
9	11	14	9	15.0	1	0.0	0.00	6.40	99.00	99.00
9	11	14	10	15.0	1	0.0	0.00	8.50	99.00	99.00
9	11	14	11	15.0	1	0.0	0.00	10.40	99.00	99.00
9	11	14	12	15.0	1	0.0	0.00	11.80	99.00	99.00
9	11	14	13	15.0	1	0.0	0.00	12.90	99.00	99.00
9	11	14	14	15.0	1	300.0	0.50	13.60	99.00	99.00
9	11	14	15	15.0	1	318.0	1.00	14.00	99.00	99.00
9	11	14	16	15.0	1	353.0	1.50	13.90	99.00	99.00
9	11	14	17	15.0	1	12.0	2.10	13.30	99.00	99.00
9	11	14	18	15.0	1	31.0	2.60	12.10	99.00	99.00
9	11	14	19	15.0	1	64.0	1.50	11.10	99.00	99.00
9	11	14	20	15.0	1	103.0	1.00	10.10	99.00	99.00
9	11	14	21	15.0	1	108.0	1.00	9.10	99.00	99.00
9	11	14	22	15.0	1	111.0	1.00	8.30	99.00	99.00
9	11	14	23	15.0	1	111.0	0.50	7.60	99.00	99.00
9	11	14	24	15.0	1	0.0	0.00	6.80	99.00	99.00
9	11	15	1	15.0	1	264.0	0.50	6.50	99.00	99.00
9	11	15	2	15.0	1	258.0	1.50	6.40	99.00	99.00
9	11	15	3	15.0	1	282.0	2.10	6.30	99.00	99.00

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 9 11 15  4    15.0 1  281.0     2.60     6.10    99.00    99.00
 9 11 15  5    15.0 1  273.0     2.60     5.60    99.00    99.00
 9 11 15  6    15.0 1  267.0     3.10     5.40    99.00    99.00
 9 11 15  7    15.0 1  285.0     3.10     5.10    99.00    99.00
 9 11 15  8    15.0 1  292.0     2.60     5.00    99.00    99.00
 9 11 15  9    15.0 1  306.0     2.60     6.80    99.00    99.00
 9 11 15 10    15.0 1  314.0     1.50     8.50    99.00    99.00
 9 11 15 11    15.0 1  298.0     0.50    10.40    99.00    99.00
 9 11 15 12    15.0 1  326.0     1.00    11.90    99.00    99.00
 9 11 15 13    15.0 1  347.0     1.50    13.00    99.00    99.00
 9 11 15 14    15.0 1  354.0     2.10    13.80    99.00    99.00
 9 11 15 15    15.0 1    0.0     0.00    14.10    99.00    99.00
 9 11 15 16    15.0 1    6.0     2.60    13.90    99.00    99.00
 9 11 15 17    15.0 1   28.0     2.10    13.10    99.00    99.00
 9 11 15 18    15.0 1   29.0     1.50    12.10    99.00    99.00
 9 11 15 19    15.0 1    0.0     0.00    11.10    99.00    99.00
 9 11 15 20    15.0 1    0.0     0.00     9.90    99.00    99.00
 9 11 15 21    15.0 1    0.0     0.00     9.00    99.00    99.00
 9 11 15 22    15.0 1    0.0     0.00     8.10    99.00    99.00
 9 11 15 23    15.0 1   26.0     0.50     7.60    99.00    99.00
 9 11 15 24    15.0 1  353.0     0.50     7.10    99.00    99.00
 9 11 16  1    15.0 1  323.0     1.00     6.60    99.00    99.00
 9 11 16  2    15.0 1  318.0     1.50     6.10    99.00    99.00
 9 11 16  3    15.0 1  317.0     1.50     5.90    99.00    99.00
 9 11 16  4    15.0 1  319.0     2.10     5.60    99.00    99.00
 9 11 16  5    15.0 1  317.0     1.50     5.30    99.00    99.00
 9 11 16  6    15.0 1  296.0     1.00     4.90    99.00    99.00
 9 11 16  7    15.0 1  269.0     0.50     4.50    99.00    99.00
 9 11 16  8    15.0 1  276.0     0.50     4.40    99.00    99.00
 9 11 16  9    15.0 1  310.0     0.50     6.80    99.00    99.00
 9 11 16 10    15.0 1  314.0     0.50     8.90    99.00    99.00
 9 11 16 11    15.0 1  326.0     0.50    11.10    99.00    99.00
 9 11 16 12    15.0 1  336.0     0.50    12.90    99.00    99.00
 9 11 16 13    15.0 1  344.0     1.00    14.60    99.00    99.00
 9 11 16 14    15.0 1  349.0     1.50    15.80    99.00    99.00
 9 11 16 15    15.0 1  356.0     1.50    16.10    99.00    99.00
 9 11 16 16    15.0 1    6.0     2.10    16.60    99.00    99.00
 9 11 16 17    15.0 1   28.0     2.10    15.90    99.00    99.00
 9 11 16 18    15.0 1   22.0     1.50    14.60    99.00    99.00
 9 11 16 19    15.0 1    0.0     0.00    13.30    99.00    99.00
 9 11 16 20    15.0 1    0.0     0.00    11.90    99.00    99.00
 9 11 16 21    15.0 1    0.0     0.00    10.80    99.00    99.00
 9 11 16 22    15.0 1   52.0     0.50    10.00    99.00    99.00
 9 11 16 23    15.0 1   51.0     0.50     9.50    99.00    99.00
 9 11 16 24    15.0 1   12.0     0.50     9.00    99.00    99.00
 9 11 17  1    15.0 1  352.0     0.50     8.60    99.00    99.00
 9 11 17  2    15.0 1  335.0     1.00     8.10    99.00    99.00
 9 11 17  3    15.0 1  353.0     1.00     7.90    99.00    99.00
 9 11 17  4    15.0 1   15.0     1.00     7.50    99.00    99.00
 9 11 17  5    15.0 1   19.0     0.50     7.10    99.00    99.00
 9 11 17  6    15.0 1   43.0     0.50     6.60    99.00    99.00
 9 11 17  7    15.0 1   56.0     0.50     6.10    99.00    99.00
 9 11 17  8    15.0 1   76.0     0.50     6.00    99.00    99.00
 9 11 17  9    15.0 1    0.0     0.00     7.90    99.00    99.00
 9 11 17 10    15.0 1    0.0     0.00    11.40    99.00    99.00
 9 11 17 11    15.0 1  321.0     0.50    13.40    99.00    99.00
 9 11 17 12    15.0 1  326.0     1.00    15.10    99.00    99.00
 9 11 17 13    15.0 1  333.0     1.00    16.60    99.00    99.00
 9 11 17 14    15.0 1  326.0     1.00    17.60    99.00    99.00
 9 11 17 15    15.0 1  352.0     1.50    18.10    99.00    99.00
 9 11 17 16    15.0 1   10.0     1.50    17.90    99.00    99.00
 9 11 17 17    15.0 1   18.0     1.00    16.90    99.00    99.00
 9 11 17 18    15.0 1    0.0     0.00    15.40    99.00    99.00
 9 11 17 19    15.0 1    0.0     0.00    13.90    99.00    99.00
 9 11 17 20    15.0 1  247.0     0.50    12.60    99.00    99.00
 9 11 17 21    15.0 1  273.0     1.50    11.90    99.00    99.00
 9 11 17 22    15.0 1  270.0     1.50    11.30    99.00    99.00
 9 11 17 23    15.0 1  279.0     1.50    10.60    99.00    99.00
 9 11 17 24    15.0 1  303.0     1.50     9.90    99.00    99.00
 9 11 18  1    15.0 1  321.0     2.60     9.10    99.00    99.00
 9 11 18  2    15.0 1  335.0     2.60     8.40    99.00    99.00
 9 11 18  3    15.0 1  316.0     2.10     8.10    99.00    99.00
 9 11 18  4    15.0 1  308.0     1.00     7.90    99.00    99.00
 9 11 18  5    15.0 1  326.0     0.50     7.50    99.00    99.00
 9 11 18  6    15.0 1    6.0     0.50     7.40    99.00    99.00
 9 11 18  7    15.0 1    0.0     0.00     7.40    99.00    99.00
 9 11 18  8    15.0 1    0.0     0.00     7.60    99.00    99.00
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 9 11 18  9     15.0 1    94.0      1.00      7.60     99.00     99.00
 9 11 18 10     15.0 1   103.0      2.10      7.90     99.00     99.00
 9 11 18 11     15.0 1   115.0      1.50      8.10     99.00     99.00
 9 11 18 12     15.0 1   150.0      1.00      8.60     99.00     99.00
 9 11 18 13     15.0 1   198.0      0.50      9.10     99.00     99.00
 9 11 18 14     15.0 1   258.0      0.50      9.80     99.00     99.00
 9 11 18 15     15.0 1   272.0      1.00     10.10     99.00     99.00
 9 11 18 16     15.0 1     0.0      0.00     10.10     99.00     99.00
 9 11 18 17     15.0 1   107.0      1.00     10.10     99.00     99.00
 9 11 18 18     15.0 1   135.0      1.50      9.90     99.00     99.00
 9 11 18 19     15.0 1   146.0      2.10      9.80     99.00     99.00
 9 11 18 20     15.0 1   162.0      2.60      9.60     99.00     99.00
 9 11 18 21     15.0 1   173.0      3.10      9.10     99.00     99.00
 9 11 18 22     15.0 1   198.0      3.10      8.10     99.00     99.00
 9 11 18 23     15.0 1   213.0      2.60      7.10     99.00     99.00
 9 11 18 24     15.0 1   215.0      2.60      6.60     99.00     99.00
 9 11 19  1     15.0 1   217.0      2.10      6.30     99.00     99.00
 9 11 19  2     15.0 1   237.0      1.50      6.10     99.00     99.00
 9 11 19  3     15.0 1   246.0      1.50      6.00     99.00     99.00
 9 11 19  4     15.0 1   245.0      1.50      5.90     99.00     99.00
 9 11 19  5     15.0 1   272.0      1.50      5.60     99.00     99.00
 9 11 19  6     15.0 1   288.0      2.10      5.30     99.00     99.00
 9 11 19  7     15.0 1   297.0      1.50      4.60     99.00     99.00
 9 11 19  8     15.0 1   299.0      1.50      4.50     99.00     99.00
 9 11 19  9     15.0 1   294.0      1.00      5.00     99.00     99.00
 9 11 19 10     15.0 1   276.0      0.50      5.60     99.00     99.00
 9 11 19 11     15.0 1     0.0      0.00      7.80     99.00     99.00
 9 11 19 12     15.0 1   323.0      0.50     10.10     99.00     99.00
 9 11 19 13     15.0 1   323.0      1.00     11.60     99.00     99.00
 9 11 19 14     15.0 1   327.0      1.00     12.80     99.00     99.00
 9 11 19 15     15.0 1     0.0      0.00     13.50     99.00     99.00
 9 11 19 16     15.0 1    32.0      1.50     13.40     99.00     99.00
 9 11 19 17     15.0 1    46.0      2.10     12.60     99.00     99.00
 9 11 19 18     15.0 1    42.0      1.50     11.50     99.00     99.00
 9 11 19 19     15.0 1   355.0      0.50     10.30     99.00     99.00
 9 11 19 20     15.0 1     0.0      0.00      9.40     99.00     99.00
 9 11 19 21     15.0 1    36.0      1.50      8.60     99.00     99.00
 9 11 19 22     15.0 1    64.0      1.50      8.00     99.00     99.00
 9 11 19 23     15.0 1    72.0      1.50      7.60     99.00     99.00
 9 11 19 24     15.0 1    78.0      0.50      7.30     99.00     99.00
 9 11 20  1     15.0 1     0.0      0.00      6.90     99.00     99.00
 9 11 20  2     15.0 1     0.0      0.00      6.60     99.00     99.00
 9 11 20  3     15.0 1    62.0      0.50      6.50     99.00     99.00
 9 11 20  4     15.0 1    82.0      0.50      6.10     99.00     99.00
 9 11 20  5     15.0 1    59.0      0.50      5.60     99.00     99.00
 9 11 20  6     15.0 1    36.0      0.50      5.60     99.00     99.00
 9 11 20  7     15.0 1    29.0      0.50      6.00     99.00     99.00
 9 11 20  8     15.0 1    28.0      0.50      6.50     99.00     99.00
 9 11 20  9     15.0 1    30.0      1.00      7.10     99.00     99.00
 9 11 20 10     15.0 1    45.0      1.50      8.80     99.00     99.00
 9 11 20 11     15.0 1    22.0      2.10     11.60     99.00     99.00
 9 11 20 12     15.0 1    12.0      2.60     13.60     99.00     99.00
 9 11 20 13     15.0 1    15.0      2.10     15.60     99.00     99.00
 9 11 20 14     15.0 1     6.0      2.10     16.60     99.00     99.00
 9 11 20 15     15.0 1    24.0      2.10     16.90     99.00     99.00
 9 11 20 16     15.0 1    35.0      2.10     16.60     99.00     99.00
 9 11 20 17     15.0 1    43.0      2.60     15.60     99.00     99.00
 9 11 20 18     15.0 1    47.0      2.10     14.30     99.00     99.00
 9 11 20 19     15.0 1    55.0      0.50     13.10     99.00     99.00
 9 11 20 20     15.0 1     0.0      0.00     12.50     99.00     99.00
 9 11 20 21     15.0 1   309.0      1.00     12.30     99.00     99.00
 9 11 20 22     15.0 1   342.0      1.50     11.80     99.00     99.00
 9 11 20 23     15.0 1    14.0      2.60     11.10     99.00     99.00
 9 11 20 24     15.0 1   347.0      1.00     11.00     99.00     99.00
 9 11 21  1     15.0 1   298.0      1.00     11.00     99.00     99.00
 9 11 21  2     15.0 1   293.0      1.00     11.00     99.00     99.00
 9 11 21  3     15.0 1   310.0      2.10     11.10     99.00     99.00
 9 11 21  4     15.0 1   326.0      3.10     10.90     99.00     99.00
 9 11 21  5     15.0 1   348.0      4.60     10.30     99.00     99.00
 9 11 21  6     15.0 1   347.0      4.60     10.00     99.00     99.00
 9 11 21  7     15.0 1   354.0      4.60      9.90     99.00     99.00
 9 11 21  8     15.0 1   339.0      4.60      9.60     99.00     99.00
 9 11 21  9     15.0 1   344.0      4.60      9.30     99.00     99.00
 9 11 21 10     15.0 1   338.0      4.10      9.40     99.00     99.00
 9 11 21 11     15.0 1   328.0      3.10      9.90     99.00     99.00
 9 11 21 12     15.0 1   316.0      2.60     11.30     99.00     99.00
 9 11 21 13     15.0 1   314.0      3.10     12.40     99.00     99.00
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 9 11 21 14     15.0 1   329.0      3.10     13.10     99.00     99.00
 9 11 21 15     15.0 1   345.0      3.10     13.60     99.00     99.00
 9 11 21 16     15.0 1   122.0      1.50     10.80     99.00     99.00
 9 11 21 17     15.0 1   152.0      3.60     10.10     99.00     99.00
 9 11 21 18     15.0 1   172.0      3.60      8.90     99.00     99.00
 9 11 21 19     15.0 1   168.0      3.60      8.10     99.00     99.00
 9 11 21 20     15.0 1   171.0      3.60      7.50     99.00     99.00
 9 11 21 21     15.0 1   159.0      3.60      6.90     99.00     99.00
 9 11 21 22     15.0 1   152.0      3.60      6.40     99.00     99.00
 9 11 21 23     15.0 1   137.0      3.10      6.30     99.00     99.00
 9 11 21 24     15.0 1   137.0      3.10      6.10     99.00     99.00
 9 11 22  1     15.0 1   138.0      3.10      5.80     99.00     99.00
 9 11 22  2     15.0 1   145.0      3.10      5.50     99.00     99.00
 9 11 22  3     15.0 1   134.0      2.60      4.90     99.00     99.00
 9 11 22  4     15.0 1   118.0      1.50      4.10     99.00     99.00
 9 11 22  5     15.0 1   111.0      1.00      3.40     99.00     99.00
 9 11 22  6     15.0 1   120.0      0.50      3.10     99.00     99.00
 9 11 22  7     15.0 1     0.0      0.00      2.80     99.00     99.00
 9 11 22  8     15.0 1     0.0      0.00      2.60     99.00     99.00
 9 11 22  9     15.0 1     0.0      0.00      3.10     99.00     99.00
 9 11 22 10     15.0 1     0.0      0.00      5.50     99.00     99.00
 9 11 22 11     15.0 1     0.0      0.00      8.90     99.00     99.00
 9 11 22 12     15.0 1     0.0      0.00     10.80     99.00     99.00
 9 11 22 13     15.0 1   312.0      0.50     12.10     99.00     99.00
 9 11 22 14     15.0 1   330.0      1.00     12.60     99.00     99.00
 9 11 22 15     15.0 1   351.0      1.50     13.00     99.00     99.00
 9 11 22 16     15.0 1    21.0      2.10     12.60     99.00     99.00
 9 11 22 17     15.0 1    44.0      2.60     11.80     99.00     99.00
 9 11 22 18     15.0 1    73.0      2.10     11.00     99.00     99.00
 9 11 22 19     15.0 1   118.0      1.50     10.30     99.00     99.00
 9 11 22 20     15.0 1   155.0      1.50      9.60     99.00     99.00
 9 11 22 21     15.0 1   160.0      1.50      9.10     99.00     99.00
 9 11 22 22     15.0 1   165.0      1.50      8.80     99.00     99.00
 9 11 22 23     15.0 1   143.0      2.10      8.30     99.00     99.00
 9 11 22 24     15.0 1   144.0      2.60      7.90     99.00     99.00
 9 11 23  1     15.0 1   140.0      3.10      7.50     99.00     99.00
 9 11 23  2     15.0 1   141.0      2.60      7.10     99.00     99.00
 9 11 23  3     15.0 1   155.0      2.60      6.90     99.00     99.00
 9 11 23  4     15.0 1   161.0      2.10      6.60     99.00     99.00
 9 11 23  5     15.0 1   180.0      1.50      6.50     99.00     99.00
 9 11 23  6     15.0 1   232.0      1.00      6.30     99.00     99.00
 9 11 23  7     15.0 1   271.0      2.10      6.10     99.00     99.00
 9 11 23  8     15.0 1   285.0      1.50      5.90     99.00     99.00
 9 11 23  9     15.0 1   311.0      1.50      8.00     99.00     99.00
 9 11 23 10     15.0 1   314.0      1.50      9.90     99.00     99.00
 9 11 23 11     15.0 1   306.0      1.50     11.60     99.00     99.00
 9 11 23 12     15.0 1   313.0      1.50     12.90     99.00     99.00
 9 11 23 13     15.0 1   314.0      1.50     13.60     99.00     99.00
 9 11 23 14     15.0 1   322.0      1.50     14.50     99.00     99.00
 9 11 23 15     15.0 1   322.0      1.50     14.90     99.00     99.00
 9 11 23 16     15.0 1   323.0      1.50     14.90     99.00     99.00
 9 11 23 17     15.0 1   318.0      0.50     14.30     99.00     99.00
 9 11 23 18     15.0 1     0.0      0.00     13.10     99.00     99.00
 9 11 23 19     15.0 1   195.0      1.00     11.90     99.00     99.00
 9 11 23 20     15.0 1   197.0      1.50     11.00     99.00     99.00
 9 11 23 21     15.0 1   203.0      1.50     10.50     99.00     99.00
 9 11 23 22     15.0 1   199.0      1.00     10.00     99.00     99.00
 9 11 23 23     15.0 1   196.0      0.50      9.30     99.00     99.00
 9 11 23 24     15.0 1     0.0      0.00      8.80     99.00     99.00
 9 11 24  1     15.0 1   279.0      0.50      8.30     99.00     99.00
 9 11 24  2     15.0 1   294.0      1.00      7.90     99.00     99.00
 9 11 24  3     15.0 1   286.0      1.50      7.50     99.00     99.00
 9 11 24  4     15.0 1   297.0      2.10      7.30     99.00     99.00
 9 11 24  5     15.0 1   301.0      2.10      7.00     99.00     99.00
 9 11 24  6     15.0 1   288.0      1.50      6.60     99.00     99.00
 9 11 24  7     15.0 1   276.0      1.00      6.50     99.00     99.00
 9 11 24  8     15.0 1   277.0      1.00      6.40     99.00     99.00
 9 11 24  9     15.0 1   300.0      1.50      8.10     99.00     99.00
 9 11 24 10     15.0 1   311.0      1.50     10.60     99.00     99.00
 9 11 24 11     15.0 1   311.0      1.00     12.60     99.00     99.00
 9 11 24 12     15.0 1   314.0      1.00     14.30     99.00     99.00
 9 11 24 13     15.0 1   319.0      1.00     15.40     99.00     99.00
 9 11 24 14     15.0 1   316.0      1.00     16.10     99.00     99.00
 9 11 24 15     15.0 1   327.0      1.00     16.40     99.00     99.00
 9 11 24 16     15.0 1     8.0      1.00     16.30     99.00     99.00
 9 11 24 17     15.0 1    52.0      0.50     15.40     99.00     99.00
 9 11 24 18     15.0 1     0.0      0.00     14.10     99.00     99.00
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 9 11 24 19     15.0 1      0.0      0.00    13.10    99.00    99.00
 9 11 24 20     15.0 1      0.0      0.00    12.30    99.00    99.00
 9 11 24 21     15.0 1     26.0      0.50    11.60    99.00    99.00
 9 11 24 22     15.0 1     35.0      1.00    10.80    99.00    99.00
 9 11 24 23     15.0 1     35.0      1.50    10.00    99.00    99.00
 9 11 24 24     15.0 1     31.0      1.00     9.40    99.00    99.00
 9 11 25  1     15.0 1      0.0      0.00     8.80    99.00    99.00
 9 11 25  2     15.0 1    339.0      0.50     8.30    99.00    99.00
 9 11 25  3     15.0 1    320.0      0.50     7.80    99.00    99.00
 9 11 25  4     15.0 1    301.0      1.00     7.40    99.00    99.00
 9 11 25  5     15.0 1    286.0      1.00     7.10    99.00    99.00
 9 11 25  6     15.0 1    265.0      1.00     6.90    99.00    99.00
 9 11 25  7     15.0 1    251.0      1.50     6.80    99.00    99.00
 9 11 25  8     15.0 1    249.0      1.50     6.80    99.00    99.00
 9 11 25  9     15.0 1    267.0      1.50     8.60    99.00    99.00
 9 11 25 10     15.0 1    290.0      2.10    11.10    99.00    99.00
 9 11 25 11     15.0 1    321.0      1.00    13.00    99.00    99.00
 9 11 25 12     15.0 1    342.0      1.00    14.60    99.00    99.00
 9 11 25 13     15.0 1    354.0      1.50    16.10    99.00    99.00
 9 11 25 14     15.0 1    349.0      2.10    17.10    99.00    99.00
 9 11 25 15     15.0 1      3.0      2.60    17.40    99.00    99.00
 9 11 25 16     15.0 1     15.0      3.10    16.90    99.00    99.00
 9 11 25 17     15.0 1     18.0      3.60    15.90    99.00    99.00
 9 11 25 18     15.0 1     24.0      3.10    14.60    99.00    99.00
 9 11 25 19     15.0 1     30.0      1.50    13.40    99.00    99.00
 9 11 25 20     15.0 1     37.0      0.50    12.30    99.00    99.00
 9 11 25 21     15.0 1     35.0      0.50    11.40    99.00    99.00
 9 11 25 22     15.0 1     44.0      0.50    10.60    99.00    99.00
 9 11 25 23     15.0 1     27.0      0.50    10.00    99.00    99.00
 9 11 25 24     15.0 1      0.0      0.00     9.50    99.00    99.00
 9 11 26  1     15.0 1    336.0      0.50     9.00    99.00    99.00
 9 11 26  2     15.0 1    333.0      0.50     8.60    99.00    99.00
 9 11 26  3     15.0 1    334.0      1.00     8.30    99.00    99.00
 9 11 26  4     15.0 1    352.0      1.00     8.00    99.00    99.00
 9 11 26  5     15.0 1    347.0      1.00     7.60    99.00    99.00
 9 11 26  6     15.0 1    346.0      1.00     7.30    99.00    99.00
 9 11 26  7     15.0 1    333.0      0.50     7.10    99.00    99.00
 9 11 26  8     15.0 1    328.0      0.50     7.00    99.00    99.00
 9 11 26  9     15.0 1    323.0      1.00     8.60    99.00    99.00
 9 11 26 10     15.0 1    315.0      2.10    11.10    99.00    99.00
 9 11 26 11     15.0 1    321.0      1.50    13.10    99.00    99.00
 9 11 26 12     15.0 1    331.0      1.00    15.00    99.00    99.00
 9 11 26 13     15.0 1    338.0      1.00    16.40    99.00    99.00
 9 11 26 14     15.0 1    342.0      1.00    17.60    99.00    99.00
 9 11 26 15     15.0 1    335.0      1.50    18.10    99.00    99.00
 9 11 26 16     15.0 1    325.0      1.50    18.90    99.00    99.00
 9 11 26 17     15.0 1    334.0      1.50    17.90    99.00    99.00
 9 11 26 18     15.0 1    337.0      0.50    16.50    99.00    99.00
 9 11 26 19     15.0 1      0.0      0.00    15.00    99.00    99.00
 9 11 26 20     15.0 1      0.0      0.00    13.60    99.00    99.00
 9 11 26 21     15.0 1      0.0      0.00    12.50    99.00    99.00
 9 11 26 22     15.0 1     26.0      0.50    11.60    99.00    99.00
 9 11 26 23     15.0 1     16.0      0.50    10.90    99.00    99.00
 9 11 26 24     15.0 1    354.0      0.50    10.60    99.00    99.00
 9 11 27  1     15.0 1    349.0      0.50    10.40    99.00    99.00
 9 11 27  2     15.0 1    319.0      0.50    10.40    99.00    99.00
 9 11 27  3     15.0 1    294.0      1.00    10.30    99.00    99.00
 9 11 27  4     15.0 1    281.0      1.50    10.10    99.00    99.00
 9 11 27  5     15.0 1    279.0      1.50    10.10    99.00    99.00
 9 11 27  6     15.0 1    292.0      1.00    10.30    99.00    99.00
 9 11 27  7     15.0 1    323.0      1.00    10.30    99.00    99.00
 9 11 27  8     15.0 1    332.0      0.50    10.10    99.00    99.00
 9 11 27  9     15.0 1      0.0      0.00    10.30    99.00    99.00
 9 11 27 10     15.0 1    342.0      0.50    11.10    99.00    99.00
 9 11 27 11     15.0 1    335.0      1.00    12.50    99.00    99.00
 9 11 27 12     15.0 1    317.0      1.00    13.10    99.00    99.00
 9 11 27 13     15.0 1    308.0      1.50    13.60    99.00    99.00
 9 11 27 14     15.0 1    321.0      1.50    14.40    99.00    99.00
 9 11 27 15     15.0 1    338.0      1.00    15.10    99.00    99.00
 9 11 27 16     15.0 1    354.0      0.50    15.10    99.00    99.00
 9 11 27 17     15.0 1    358.0      0.50    14.60    99.00    99.00
 9 11 27 18     15.0 1    342.0      0.50    13.80    99.00    99.00
 9 11 27 19     15.0 1    275.0      0.50    12.80    99.00    99.00
 9 11 27 20     15.0 1    300.0      2.60    12.10    99.00    99.00
 9 11 27 21     15.0 1    292.0      3.60    11.60    99.00    99.00
 9 11 27 22     15.0 1    285.0      3.60    11.00    99.00    99.00
 9 11 27 23     15.0 1    278.0      4.10    10.80    99.00    99.00
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 9 11 27 24     15.0 1   285.0      4.60     10.50     99.00     99.00
 9 11 28  1     15.0 1   294.0      5.10     10.10     99.00     99.00
 9 11 28  2     15.0 1   295.0      4.60     10.10     99.00     99.00
 9 11 28  3     15.0 1   289.0      4.60     10.10     99.00     99.00
 9 11 28  4     15.0 1   297.0      4.60      9.60     99.00     99.00
 9 11 28  5     15.0 1   304.0      3.60      9.30     99.00     99.00
 9 11 28  6     15.0 1   292.0      3.10      9.30     99.00     99.00
 9 11 28  7     15.0 1   267.0      2.60      9.10     99.00     99.00
 9 11 28  8     15.0 1   250.0      2.60      8.80     99.00     99.00
 9 11 28  9     15.0 1   279.0      2.10      9.50     99.00     99.00
 9 11 28 10     15.0 1   331.0      3.60     10.40     99.00     99.00
 9 11 28 11     15.0 1   344.0      4.60     12.00     99.00     99.00
 9 11 28 12     15.0 1   341.0      4.10     13.10     99.00     99.00
 9 11 28 13     15.0 1   339.0      3.10     14.10     99.00     99.00
 9 11 28 14     15.0 1   347.0      2.10     14.60     99.00     99.00
 9 11 28 15     15.0 1    30.0      1.50     15.10     99.00     99.00
 9 11 28 16     15.0 1    89.0      1.50     15.00     99.00     99.00
 9 11 28 17     15.0 1   130.0      3.10     14.30     99.00     99.00
 9 11 28 18     15.0 1   165.0      3.60     13.30     99.00     99.00
 9 11 28 19     15.0 1   164.0      3.60     12.10     99.00     99.00
 9 11 28 20     15.0 1   136.0      4.10     11.10     99.00     99.00
 9 11 28 21     15.0 1   139.0      3.10     10.30     99.00     99.00
 9 11 28 22     15.0 1   139.0      2.10      9.60     99.00     99.00
 9 11 28 23     15.0 1   158.0      2.10      9.10     99.00     99.00
 9 11 28 24     15.0 1   196.0      2.10      8.80     99.00     99.00
 9 11 29  1     15.0 1   220.0      2.60      8.60     99.00     99.00
 9 11 29  2     15.0 1   232.0      2.60      8.60     99.00     99.00
 9 11 29  3     15.0 1   226.0      3.10      8.60     99.00     99.00
 9 11 29  4     15.0 1   226.0      3.10      8.50     99.00     99.00
 9 11 29  5     15.0 1   228.0      3.60      8.30     99.00     99.00
 9 11 29  6     15.0 1   245.0      4.10      8.00     99.00     99.00
 9 11 29  7     15.0 1   260.0      4.10      7.80     99.00     99.00
 9 11 29  8     15.0 1   274.0      3.60      7.50     99.00     99.00
 9 11 29  9     15.0 1   293.0      2.60      8.90     99.00     99.00
 9 11 29 10     15.0 1   293.0      2.60     10.60     99.00     99.00
 9 11 29 11     15.0 1   268.0      2.10     12.10     99.00     99.00
 9 11 29 12     15.0 1   274.0      2.60     14.00     99.00     99.00
 9 11 29 13     15.0 1   282.0      3.10     15.00     99.00     99.00
 9 11 29 14     15.0 1   307.0      3.10     15.60     99.00     99.00
 9 11 29 15     15.0 1   335.0      3.10     15.90     99.00     99.00
 9 11 29 16     15.0 1   353.0      2.60     15.50     99.00     99.00
 9 11 29 17     15.0 1    13.0      2.10     14.60     99.00     99.00
 9 11 29 18     15.0 1    36.0      0.50     13.60     99.00     99.00
 9 11 29 19     15.0 1     0.0      0.00     12.30     99.00     99.00
 9 11 29 20     15.0 1   177.0      0.50     11.30     99.00     99.00
 9 11 29 21     15.0 1     0.0      0.00     10.40     99.00     99.00
 9 11 29 22     15.0 1     0.0      0.00      9.60     99.00     99.00
 9 11 29 23     15.0 1    98.0      0.50      9.00     99.00     99.00
 9 11 29 24     15.0 1   133.0      0.50      8.50     99.00     99.00
 9 11 30  1     15.0 1   193.0      0.50      8.10     99.00     99.00
 9 11 30  2     15.0 1     0.0      0.00      8.00     99.00     99.00
 9 11 30  3     15.0 1    12.0      0.50      7.50     99.00     99.00
 9 11 30  4     15.0 1    10.0      1.50      6.90     99.00     99.00
 9 11 30  5     15.0 1    18.0      1.50      6.40     99.00     99.00
 9 11 30  6     15.0 1    17.0      1.50      6.10     99.00     99.00
 9 11 30  7     15.0 1   311.0      1.00      5.60     99.00     99.00
 9 11 30  8     15.0 1   284.0      2.10      5.40     99.00     99.00
 9 11 30  9     15.0 1   286.0      2.10      7.40     99.00     99.00
 9 11 30 10     15.0 1   298.0      1.50      9.40     99.00     99.00
 9 11 30 11     15.0 1   306.0      1.00     11.40     99.00     99.00
 9 11 30 12     15.0 1   305.0      0.50     13.10     99.00     99.00
 9 11 30 13     15.0 1     0.0      0.00     14.60     99.00     99.00
 9 11 30 14     15.0 1     0.0      0.00     15.40     99.00     99.00
 9 11 30 15     15.0 1     0.0      0.00     15.80     99.00     99.00
 9 11 30 16     15.0 1     0.0      0.00     15.60     99.00     99.00
 9 11 30 17     15.0 1    94.0      0.50     14.60     99.00     99.00
 9 11 30 18     15.0 1   106.0      0.50     13.40     99.00     99.00
 9 11 30 19     15.0 1   126.0      0.50     12.00     99.00     99.00
 9 11 30 20     15.0 1   115.0      0.50     10.90     99.00     99.00
 9 11 30 21     15.0 1    71.0      0.50      9.90     99.00     99.00
 9 11 30 22     15.0 1    74.0      0.50      9.00     99.00     99.00
 9 11 30 23     15.0 1    80.0      0.50      8.30     99.00     99.00
 9 11 30 24     15.0 1    84.0      0.50      7.60     99.00     99.00
 9 12  1  1     15.0 1    75.0      0.50      7.10     99.00     99.00
 9 12  1  2     15.0 1    81.0      0.50      6.80     99.00     99.00
 9 12  1  3     15.0 1    92.0      0.50      6.60     99.00     99.00
 9 12  1  4     15.0 1    94.0      0.50      6.40     99.00     99.00
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 9 12   1  5     15.0 1     71.0      0.50      6.10     99.00     99.00
 9 12   1  6     15.0 1      0.0      0.00      5.80     99.00     99.00
 9 12   1  7     15.0 1      0.0      0.00      5.50     99.00     99.00
 9 12   1  8     15.0 1      0.0      0.00      5.10     99.00     99.00
 9 12   1  9     15.0 1    318.0      0.50      6.10     99.00     99.00
 9 12   1 10     15.0 1    324.0      1.00      9.50     99.00     99.00
 9 12   1 11     15.0 1    325.0      0.50     11.10     99.00     99.00
 9 12   1 12     15.0 1    302.0      0.50     12.80     99.00     99.00
 9 12   1 13     15.0 1    303.0      0.50     14.10     99.00     99.00
 9 12   1 14     15.0 1    305.0      1.00     14.90     99.00     99.00
 9 12   1 15     15.0 1    316.0      1.50     15.10     99.00     99.00
 9 12   1 16     15.0 1    310.0      1.50     15.40     99.00     99.00
 9 12   1 17     15.0 1    312.0      1.00     14.50     99.00     99.00
 9 12   1 18     15.0 1      0.0      0.00     13.30     99.00     99.00
 9 12   1 19     15.0 1      0.0      0.00     12.10     99.00     99.00
 9 12   1 20     15.0 1      0.0      0.00     11.10     99.00     99.00
 9 12   1 21     15.0 1      0.0      0.00     10.10     99.00     99.00
 9 12   1 22     15.0 1      0.0      0.00      9.30     99.00     99.00
 9 12   1 23     15.0 1      0.0      0.00      8.60     99.00     99.00
 9 12   1 24     15.0 1    284.0      0.50      8.30     99.00     99.00
 9 12   2  1     15.0 1    276.0      0.50      7.90     99.00     99.00
 9 12   2  2     15.0 1    292.0      1.00      7.60     99.00     99.00
 9 12   2  3     15.0 1    291.0      1.50      7.50     99.00     99.00
 9 12   2  4     15.0 1    304.0      2.10      7.30     99.00     99.00
 9 12   2  5     15.0 1    301.0      2.60      7.10     99.00     99.00
 9 12   2  6     15.0 1    297.0      2.10      7.00     99.00     99.00
 9 12   2  7     15.0 1    305.0      1.50      6.80     99.00     99.00
 9 12   2  8     15.0 1    291.0      1.50      6.50     99.00     99.00
 9 12   2  9     15.0 1    288.0      1.50      6.60     99.00     99.00
 9 12   2 10     15.0 1    331.0      1.50      8.00     99.00     99.00
 9 12   2 11     15.0 1    335.0      0.50      9.10     99.00     99.00
 9 12   2 12     15.0 1      0.0      0.00     10.60     99.00     99.00
 9 12   2 13     15.0 1      0.0      0.00     11.50     99.00     99.00
 9 12   2 14     15.0 1      0.0      0.00     12.10     99.00     99.00
 9 12   2 15     15.0 1      0.0      0.00     12.60     99.00     99.00
 9 12   2 16     15.0 1      0.0      0.00     12.60     99.00     99.00
 9 12   2 17     15.0 1      0.0      0.00     11.90     99.00     99.00
 9 12   2 18     15.0 1      0.0      0.00     10.60     99.00     99.00
 9 12   2 19     15.0 1      0.0      0.00      9.40     99.00     99.00
 9 12   2 20     15.0 1      0.0      0.00      8.30     99.00     99.00
 9 12   2 21     15.0 1      0.0      0.00      7.40     99.00     99.00
 9 12   2 22     15.0 1     82.0      0.50      6.50     99.00     99.00
 9 12   2 23     15.0 1     83.0      0.50      5.60     99.00     99.00
 9 12   2 24     15.0 1     76.0      0.50      5.10     99.00     99.00
 9 12   3  1     15.0 1     93.0      0.50      4.60     99.00     99.00
 9 12   3  2     15.0 1      0.0      0.00      4.10     99.00     99.00
 9 12   3  3     15.0 1      0.0      0.00      3.60     99.00     99.00
 9 12   3  4     15.0 1      0.0      0.00      3.40     99.00     99.00
 9 12   3  5     15.0 1      0.0      0.00      3.10     99.00     99.00
 9 12   3  6     15.0 1      0.0      0.00      2.90     99.00     99.00
 9 12   3  7     15.0 1    280.0      0.50      2.60     99.00     99.00
 9 12   3  8     15.0 1    284.0      0.50      2.80     99.00     99.00
 9 12   3  9     15.0 1    298.0      1.00      4.60     99.00     99.00
 9 12   3 10     15.0 1    298.0      1.50      7.10     99.00     99.00
 9 12   3 11     15.0 1    309.0      1.00      9.00     99.00     99.00
 9 12   3 12     15.0 1    307.0      1.00     10.80     99.00     99.00
 9 12   3 13     15.0 1    316.0      1.00     11.90     99.00     99.00
 9 12   3 14     15.0 1    337.0      1.50     12.60     99.00     99.00
 9 12   3 15     15.0 1    351.0      2.10     12.90     99.00     99.00
 9 12   3 16     15.0 1    356.0      2.60     12.60     99.00     99.00
 9 12   3 17     15.0 1      0.0      0.00     11.80     99.00     99.00
 9 12   3 18     15.0 1    353.0      1.50     10.60     99.00     99.00
 9 12   3 19     15.0 1    240.0      0.50      9.50     99.00     99.00
 9 12   3 20     15.0 1    244.0      0.50      8.40     99.00     99.00
 9 12   3 21     15.0 1    278.0      0.50      7.50     99.00     99.00
 9 12   3 22     15.0 1    323.0      0.50      6.60     99.00     99.00
 9 12   3 23     15.0 1      0.0      0.00      6.10     99.00     99.00
 9 12   3 24     15.0 1      0.0      0.00      5.50     99.00     99.00
 9 12   4  1     15.0 1    249.0      0.50      4.90     99.00     99.00
 9 12   4  2     15.0 1    259.0      1.00      4.60     99.00     99.00
 9 12   4  3     15.0 1    288.0      1.00      4.40     99.00     99.00
 9 12   4  4     15.0 1    326.0      1.00      4.10     99.00     99.00
 9 12   4  5     15.0 1    349.0      1.00      3.80     99.00     99.00
 9 12   4  6     15.0 1      0.0      0.00      3.30     99.00     99.00
 9 12   4  7     15.0 1     10.0      0.50      2.90     99.00     99.00
 9 12   4  8     15.0 1     17.0      0.50      2.60     99.00     99.00
 9 12   4  9     15.0 1     34.0      0.50      3.10     99.00     99.00
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 9 12  4 10    15.0 1   351.0     1.00     6.00    99.00    99.00
 9 12  4 11    15.0 1   350.0     1.00     7.40    99.00    99.00
 9 12  4 12    15.0 1   353.0     1.00     8.90    99.00    99.00
 9 12  4 13    15.0 1   342.0     1.00     9.90    99.00    99.00
 9 12  4 14    15.0 1   342.0     1.50    10.50    99.00    99.00
 9 12  4 15    15.0 1   337.0     1.50    10.50    99.00    99.00
 9 12  4 16    15.0 1   347.0     1.00    10.10    99.00    99.00
 9 12  4 17    15.0 1     0.0     0.00     9.40    99.00    99.00
 9 12  4 18    15.0 1     0.0     0.00     8.60    99.00    99.00
 9 12  4 19    15.0 1     0.0     0.00     8.00    99.00    99.00
 9 12  4 20    15.0 1     0.0     0.00     7.60    99.00    99.00
 9 12  4 21    15.0 1     0.0     0.00     7.30    99.00    99.00
 9 12  4 22    15.0 1     0.0     0.00     7.00    99.00    99.00
 9 12  4 23    15.0 1     0.0     0.00     6.90    99.00    99.00
 9 12  4 24    15.0 1     0.0     0.00     6.60    99.00    99.00
 9 12  5  1    15.0 1     0.0     0.00     6.50    99.00    99.00
 9 12  5  2    15.0 1     0.0     0.00     6.50    99.00    99.00
 9 12  5  3    15.0 1   104.0     0.50     6.50    99.00    99.00
 9 12  5  4    15.0 1   121.0     1.00     6.40    99.00    99.00
 9 12  5  5    15.0 1   128.0     1.00     6.10    99.00    99.00
 9 12  5  6    15.0 1   123.0     0.50     6.00    99.00    99.00
 9 12  5  7    15.0 1   142.0     0.50     5.90    99.00    99.00
 9 12  5  8    15.0 1   145.0     0.50     5.40    99.00    99.00
 9 12  5  9    15.0 1   122.0     0.50     6.30    99.00    99.00
 9 12  5 10    15.0 1     0.0     0.00     9.10    99.00    99.00
 9 12  5 11    15.0 1     0.0     0.00    10.60    99.00    99.00
 9 12  5 12    15.0 1     0.0     0.00    11.60    99.00    99.00
 9 12  5 13    15.0 1   288.0     0.50    12.50    99.00    99.00
 9 12  5 14    15.0 1   310.0     1.00    13.00    99.00    99.00
 9 12  5 15    15.0 1   324.0     2.10    13.10    99.00    99.00
 9 12  5 16    15.0 1   326.0     2.60    12.80    99.00    99.00
 9 12  5 17    15.0 1   338.0     3.10    11.80    99.00    99.00
 9 12  5 18    15.0 1   347.0     3.10    10.60    99.00    99.00
 9 12  5 19    15.0 1   345.0     2.10     9.60    99.00    99.00
 9 12  5 20    15.0 1   291.0     1.00     8.60    99.00    99.00
 9 12  5 21    15.0 1   285.0     1.50     7.80    99.00    99.00
 9 12  5 22    15.0 1   306.0     2.10     7.10    99.00    99.00
 9 12  5 23    15.0 1   316.0     2.10     6.40    99.00    99.00
 9 12  5 24    15.0 1   310.0     2.10     5.60    99.00    99.00
 9 12  6  1    15.0 1   310.0     1.50     5.00    99.00    99.00
 9 12  6  2    15.0 1   304.0     1.50     4.30    99.00    99.00
 9 12  6  3    15.0 1   298.0     1.50     3.60    99.00    99.00
 9 12  6  4    15.0 1   298.0     1.50     3.10    99.00    99.00
 9 12  6  5    15.0 1   314.0     1.50     2.80    99.00    99.00
 9 12  6  6    15.0 1   308.0     1.50     2.30    99.00    99.00
 9 12  6  7    15.0 1   314.0     1.50     1.90    99.00    99.00
 9 12  6  8    15.0 1   306.0     1.00     1.60    99.00    99.00
 9 12  6  9    15.0 1   334.0     1.50     2.80    99.00    99.00
 9 12  6 10    15.0 1   316.0     0.50     4.30    99.00    99.00
 9 12  6 11    15.0 1     0.0     0.00     6.10    99.00    99.00
 9 12  6 12    15.0 1     0.0     0.00     7.60    99.00    99.00
 9 12  6 13    15.0 1   291.0     0.50     8.60    99.00    99.00
 9 12  6 14    15.0 1   313.0     1.00     9.10    99.00    99.00
 9 12  6 15    15.0 1   338.0     1.50     9.10    99.00    99.00
 9 12  6 16    15.0 1   348.0     1.50     8.90    99.00    99.00
 9 12  6 17    15.0 1     0.0     0.00     8.40    99.00    99.00
 9 12  6 18    15.0 1     0.0     0.00     7.90    99.00    99.00
 9 12  6 19    15.0 1   172.0     0.50     7.50    99.00    99.00
 9 12  6 20    15.0 1   174.0     1.00     7.30    99.00    99.00
 9 12  6 21    15.0 1   159.0     1.50     7.10    99.00    99.00
 9 12  6 22    15.0 1   143.0     2.60     7.10    99.00    99.00
 9 12  6 23    15.0 1   142.0     3.60     6.80    99.00    99.00
 9 12  6 24    15.0 1   136.0     3.10     6.50    99.00    99.00
 9 12  7  1    15.0 1   126.0     3.10     6.40    99.00    99.00
 9 12  7  2    15.0 1   120.0     3.60     6.50    99.00    99.00
 9 12  7  3    15.0 1   120.0     4.10     6.60    99.00    99.00
 9 12  7  4    15.0 1   116.0     4.10     6.90    99.00    99.00
 9 12  7  5    15.0 1   124.0     4.10     7.00    99.00    99.00
 9 12  7  6    15.0 1   130.0     3.60     7.10    99.00    99.00
 9 12  7  7    15.0 1   135.0     2.10     7.10    99.00    99.00
 9 12  7  8    15.0 1     0.0     0.00     7.10    99.00    99.00
 9 12  7  9    15.0 1   334.0     2.10     6.90    99.00    99.00
 9 12  7 10    15.0 1   327.0     3.10     7.10    99.00    99.00
 9 12  7 11    15.0 1   334.0     5.10     7.90    99.00    99.00
 9 12  7 12    15.0 1   336.0     5.70     8.50    99.00    99.00
 9 12  7 13    15.0 1   339.0     5.10     8.60    99.00    99.00
 9 12  7 14    15.0 1   344.0     4.10     8.80    99.00    99.00
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 9 12  7 15    15.0 1   344.0     4.10     9.00    99.00    99.00
 9 12  7 16    15.0 1   342.0     3.10     8.90    99.00    99.00
 9 12  7 17    15.0 1   323.0     3.10     8.10    99.00    99.00
 9 12  7 18    15.0 1   291.0     3.60     7.60    99.00    99.00
 9 12  7 19    15.0 1   298.0     4.60     7.10    99.00    99.00
 9 12  7 20    15.0 1   316.0     6.20     6.50    99.00    99.00
 9 12  7 21    15.0 1   326.0     6.20     5.90    99.00    99.00
 9 12  7 22    15.0 1   329.0     5.70     5.50    99.00    99.00
 9 12  7 23    15.0 1   335.0     5.10     4.60    99.00    99.00
 9 12  7 24    15.0 1   317.0     4.10     3.60    99.00    99.00
 9 12  8  1    15.0 1   306.0     3.60     2.60    99.00    99.00
 9 12  8  2    15.0 1   308.0     2.60     2.10    99.00    99.00
 9 12  8  3    15.0 1   310.0     2.10     1.60    99.00    99.00
 9 12  8  4    15.0 1   309.0     1.50     1.10    99.00    99.00
 9 12  8  5    15.0 1   311.0     1.50     0.80    99.00    99.00
 9 12  8  6    15.0 1   293.0     1.50     0.30    99.00    99.00
 9 12  8  7    15.0 1   285.0     1.50    -0.10    99.00    99.00
 9 12  8  8    15.0 1   281.0     1.00    -0.50    99.00    99.00
 9 12  8  9    15.0 1   322.0     1.00     0.60    99.00    99.00
 9 12  8 10    15.0 1     0.0     0.00     2.10    99.00    99.00
 9 12  8 11    15.0 1     0.0     0.00     3.40    99.00    99.00
 9 12  8 12    15.0 1     0.0     0.00     4.40    99.00    99.00
 9 12  8 13    15.0 1   306.0     0.50     5.40    99.00    99.00
 9 12  8 14    15.0 1   315.0     1.00     6.00    99.00    99.00
 9 12  8 15    15.0 1   306.0     1.50     6.30    99.00    99.00
 9 12  8 16    15.0 1   327.0     2.10     6.10    99.00    99.00
 9 12  8 17    15.0 1   346.0     2.60     5.50    99.00    99.00
 9 12  8 18    15.0 1     0.0     0.00     4.60    99.00    99.00
 9 12  8 19    15.0 1    35.0     2.10     3.60    99.00    99.00
 9 12  8 20    15.0 1    72.0     1.50     2.60    99.00    99.00
 9 12  8 21    15.0 1   112.0     1.00     1.60    99.00    99.00
 9 12  8 22    15.0 1   130.0     1.00     0.90    99.00    99.00
 9 12  8 23    15.0 1   118.0     1.00     0.30    99.00    99.00
 9 12  8 24    15.0 1   123.0     1.00    -0.40    99.00    99.00
 9 12  9  1    15.0 1   133.0     1.50    -0.90    99.00    99.00
 9 12  9  2    15.0 1   122.0     1.00    -1.30    99.00    99.00
 9 12  9  3    15.0 1   102.0     1.00    -1.80    99.00    99.00
 9 12  9  4    15.0 1    71.0     0.50    -2.10    99.00    99.00
 9 12  9  5    15.0 1    74.0     0.50    -2.60    99.00    99.00
 9 12  9  6    15.0 1     0.0     0.00    -3.00    99.00    99.00
 9 12  9  7    15.0 1   106.0     0.50    -3.40    99.00    99.00
 9 12  9  8    15.0 1     0.0     0.00    -3.60    99.00    99.00
 9 12  9  9    15.0 1     0.0     0.00    -1.90    99.00    99.00
 9 12  9 10    15.0 1     0.0     0.00     1.00    99.00    99.00
 9 12  9 11    15.0 1     0.0     0.00     2.80    99.00    99.00
 9 12  9 12    15.0 1   319.0     0.50     4.30    99.00    99.00
 9 12  9 13    15.0 1   331.0     1.00     5.30    99.00    99.00
 9 12  9 14    15.0 1   345.0     1.50     6.10    99.00    99.00
 9 12  9 15    15.0 1   355.0     1.50     6.40    99.00    99.00
 9 12  9 16    15.0 1     3.0     1.50     6.10    99.00    99.00
 9 12  9 17    15.0 1     0.0     0.00     5.50    99.00    99.00
 9 12  9 18    15.0 1   344.0     0.50     4.90    99.00    99.00
 9 12  9 19    15.0 1   324.0     0.50     4.10    99.00    99.00
 9 12  9 20    15.0 1   324.0     0.50     3.60    99.00    99.00
 9 12  9 21    15.0 1   321.0     0.50     3.40    99.00    99.00
 9 12  9 22    15.0 1   335.0     0.50     3.30    99.00    99.00
 9 12  9 23    15.0 1     0.0     0.00     3.30    99.00    99.00
 9 12  9 24    15.0 1    17.0     0.50     3.30    99.00    99.00
 9 12 10  1    15.0 1     0.0     0.00     3.10    99.00    99.00
 9 12 10  2    15.0 1     0.0     0.00     3.10    99.00    99.00
 9 12 10  3    15.0 1     0.0     0.00     3.10    99.00    99.00
 9 12 10  4    15.0 1     0.0     0.00     3.10    99.00    99.00
 9 12 10  5    15.0 1     0.0     0.00     3.10    99.00    99.00
 9 12 10  6    15.0 1   333.0     0.50     3.10    99.00    99.00
 9 12 10  7    15.0 1   342.0     1.50     3.00    99.00    99.00
 9 12 10  8    15.0 1   343.0     1.50     2.60    99.00    99.00
 9 12 10  9    15.0 1   342.0     2.10     3.60    99.00    99.00
 9 12 10 10    15.0 1   326.0     1.50     4.90    99.00    99.00
 9 12 10 11    15.0 1   343.0     0.50     6.80    99.00    99.00
 9 12 10 12    15.0 1   336.0     0.50     8.80    99.00    99.00
 9 12 10 13    15.0 1   316.0     0.50    10.10    99.00    99.00
 9 12 10 14    15.0 1   310.0     1.00    10.50    99.00    99.00
 9 12 10 15    15.0 1   325.0     2.10    10.30    99.00    99.00
 9 12 10 16    15.0 1   331.0     2.10     9.60    99.00    99.00
 9 12 10 17    15.0 1   338.0     1.50     9.10    99.00    99.00
 9 12 10 18    15.0 1   351.0     1.50     8.60    99.00    99.00
 9 12 10 19    15.0 1   348.0     0.50     8.30    99.00    99.00
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 9 12 10 20    15.0 1     0.0     0.00     8.00    99.00    99.00
 9 12 10 21    15.0 1     0.0     0.00     7.90    99.00    99.00
 9 12 10 22    15.0 1   306.0     0.50     8.60    99.00    99.00
 9 12 10 23    15.0 1   344.0     1.00     9.10    99.00    99.00
 9 12 10 24    15.0 1   344.0     3.10     8.10    99.00    99.00
 9 12 11  1    15.0 1   351.0     3.10     7.40    99.00    99.00
 9 12 11  2    15.0 1     8.0     3.10     7.10    99.00    99.00
 9 12 11  3    15.0 1    10.0     3.60     7.10    99.00    99.00
 9 12 11  4    15.0 1    12.0     3.60     7.00    99.00    99.00
 9 12 11  5    15.0 1     5.0     3.10     6.90    99.00    99.00
 9 12 11  6    15.0 1   340.0     2.60     6.80    99.00    99.00
 9 12 11  7    15.0 1   343.0     1.50     7.10    99.00    99.00
 9 12 11  8    15.0 1    62.0     0.50     7.60    99.00    99.00
 9 12 11  9    15.0 1   219.0     0.50     7.80    99.00    99.00
 9 12 11 10    15.0 1   241.0     0.50     8.00    99.00    99.00
 9 12 11 11    15.0 1     0.0     0.00     8.40    99.00    99.00
 9 12 11 12    15.0 1     0.0     0.00     8.90    99.00    99.00
 9 12 11 13    15.0 1    28.0     0.50     9.10    99.00    99.00
 9 12 11 14    15.0 1    21.0     1.50     9.30    99.00    99.00
 9 12 11 15    15.0 1     6.0     2.10     9.30    99.00    99.00
 9 12 11 16    15.0 1   102.0     1.00    12.30    99.00    99.00
 9 12 11 17    15.0 1   127.0     1.50    11.90    99.00    99.00
 9 12 11 18    15.0 1   144.0     2.10    11.80    99.00    99.00
 9 12 11 19    15.0 1   123.0     3.10    11.80    99.00    99.00
 9 12 11 20    15.0 1   124.0     4.10    11.90    99.00    99.00
 9 12 11 21    15.0 1   135.0     3.60    11.90    99.00    99.00
 9 12 11 22    15.0 1   131.0     4.10    11.90    99.00    99.00
 9 12 11 23    15.0 1   125.0     4.10    11.90    99.00    99.00
 9 12 11 24    15.0 1   124.0     3.60    12.00    99.00    99.00
 9 12 12  1    15.0 1   118.0     3.10    12.30    99.00    99.00
 9 12 12  2    15.0 1   127.0     3.10    12.60    99.00    99.00
 9 12 12  3    15.0 1   133.0     3.60    12.60    99.00    99.00
 9 12 12  4    15.0 1   122.0     4.10    12.80    99.00    99.00
 9 12 12  5    15.0 1   125.0     4.10    12.60    99.00    99.00
 9 12 12  6    15.0 1   124.0     4.10    12.60    99.00    99.00
 9 12 12  7    15.0 1   123.0     4.10    12.60    99.00    99.00
 9 12 12  8    15.0 1   133.0     4.10    12.80    99.00    99.00
 9 12 12  9    15.0 1   145.0     3.60    13.10    99.00    99.00
 9 12 12 10    15.0 1   139.0     3.60    14.10    99.00    99.00
 9 12 12 11    15.0 1   141.0     3.60    15.60    99.00    99.00
 9 12 12 12    15.0 1   129.0     3.60    17.10    99.00    99.00
 9 12 12 13    15.0 1   138.0     4.10    18.30    99.00    99.00
 9 12 12 14    15.0 1   135.0     3.60    18.50    99.00    99.00
 9 12 12 15    15.0 1   135.0     3.10    18.30    99.00    99.00
 9 12 12 16    15.0 1   175.0     3.60    18.30    99.00    99.00
 9 12 12 17    15.0 1   176.0     4.60    17.80    99.00    99.00
 9 12 12 18    15.0 1   181.0     5.10    16.10    99.00    99.00
 9 12 12 19    15.0 1   168.0     4.60    14.90    99.00    99.00
 9 12 12 20    15.0 1   159.0     4.60    14.10    99.00    99.00
 9 12 12 21    15.0 1   136.0     4.60    13.40    99.00    99.00
 9 12 12 22    15.0 1   125.0     4.60    12.50    99.00    99.00
 9 12 12 23    15.0 1   118.0     4.60    11.80    99.00    99.00
 9 12 12 24    15.0 1   117.0     4.60    11.40    99.00    99.00
 9 12 13  1    15.0 1   129.0     4.10    11.10    99.00    99.00
 9 12 13  2    15.0 1   139.0     4.60    11.10    99.00    99.00
 9 12 13  3    15.0 1   146.0     4.10    11.10    99.00    99.00
 9 12 13  4    15.0 1   167.0     4.10    11.30    99.00    99.00
 9 12 13  5    15.0 1   190.0     4.10    11.10    99.00    99.00
 9 12 13  6    15.0 1   219.0     3.60    10.50    99.00    99.00
 9 12 13  7    15.0 1   226.0     3.10     9.60    99.00    99.00
 9 12 13  8    15.0 1   220.0     2.10     9.60    99.00    99.00
 9 12 13  9    15.0 1   127.0     1.50    10.10    99.00    99.00
 9 12 13 10    15.0 1    16.0     0.50    12.10    99.00    99.00
 9 12 13 11    15.0 1    39.0     1.00    13.10    99.00    99.00
 9 12 13 12    15.0 1     0.0     0.00    14.10    99.00    99.00
 9 12 13 13    15.0 1     0.0     0.00    15.00    99.00    99.00
 9 12 13 14    15.0 1     0.0     0.00    15.50    99.00    99.00
 9 12 13 15    15.0 1   332.0     0.50    15.60    99.00    99.00
 9 12 13 16    15.0 1    19.0     1.00    15.60    99.00    99.00
 9 12 13 17    15.0 1    42.0     1.50    15.10    99.00    99.00
 9 12 13 18    15.0 1    43.0     1.00    14.50    99.00    99.00
 9 12 13 19    15.0 1   187.0     1.00    13.60    99.00    99.00
 9 12 13 20    15.0 1   210.0     2.10    12.80    99.00    99.00
 9 12 13 21    15.0 1   229.0     2.10    12.30    99.00    99.00
 9 12 13 22    15.0 1   255.0     2.10    11.60    99.00    99.00
 9 12 13 23    15.0 1   272.0     2.10    10.60    99.00    99.00
 9 12 13 24    15.0 1   265.0     1.50     9.60    99.00    99.00
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 9 12 14  1    15.0 1   209.0     1.50     8.90    99.00    99.00
 9 12 14  2    15.0 1   219.0     2.10     8.50    99.00    99.00
 9 12 14  3    15.0 1   248.0     2.60     8.10    99.00    99.00
 9 12 14  4    15.0 1   277.0     3.10     7.90    99.00    99.00
 9 12 14  5    15.0 1   304.0     3.10     8.00    99.00    99.00
 9 12 14  6    15.0 1   318.0     3.10     7.80    99.00    99.00
 9 12 14  7    15.0 1   335.0     3.10     7.50    99.00    99.00
 9 12 14  8    15.0 1   332.0     2.60     7.40    99.00    99.00
 9 12 14  9    15.0 1   328.0     2.10     7.40    99.00    99.00
 9 12 14 10    15.0 1   344.0     1.00     7.60    99.00    99.00
 9 12 14 11    15.0 1     0.0     0.00     8.50    99.00    99.00
 9 12 14 12    15.0 1     0.0     0.00    10.00    99.00    99.00
 9 12 14 13    15.0 1     0.0     0.00    11.00    99.00    99.00
 9 12 14 14    15.0 1     0.0     0.00    11.90    99.00    99.00
 9 12 14 15    15.0 1     0.0     0.00    12.50    99.00    99.00
 9 12 14 16    15.0 1    25.0     0.50    12.60    99.00    99.00
 9 12 14 17    15.0 1    51.0     0.50    12.00    99.00    99.00
 9 12 14 18    15.0 1   145.0     0.50    11.10    99.00    99.00
 9 12 14 19    15.0 1   169.0     0.50    10.10    99.00    99.00
 9 12 14 20    15.0 1   169.0     0.50     9.30    99.00    99.00
 9 12 14 21    15.0 1   159.0     0.50     8.10    99.00    99.00
 9 12 14 22    15.0 1     0.0     0.00     6.50    99.00    99.00
 9 12 14 23    15.0 1   113.0     0.50     5.30    99.00    99.00
 9 12 14 24    15.0 1    90.0     0.50     4.90    99.00    99.00
 9 12 15  1    15.0 1     0.0     0.00     4.60    99.00    99.00
 9 12 15  2    15.0 1     0.0     0.00     5.10    99.00    99.00
 9 12 15  3    15.0 1     0.0     0.00     5.30    99.00    99.00
 9 12 15  4    15.0 1     0.0     0.00     5.40    99.00    99.00
 9 12 15  5    15.0 1     0.0     0.00     5.40    99.00    99.00
 9 12 15  6    15.0 1     0.0     0.00     5.40    99.00    99.00
 9 12 15  7    15.0 1     0.0     0.00     5.50    99.00    99.00
 9 12 15  8    15.0 1     0.0     0.00     5.60    99.00    99.00
 9 12 15  9    15.0 1     0.0     0.00     6.10    99.00    99.00
 9 12 15 10    15.0 1   347.0     0.50     7.80    99.00    99.00
 9 12 15 11    15.0 1   337.0     1.00     9.00    99.00    99.00
 9 12 15 12    15.0 1   328.0     1.00     9.90    99.00    99.00
 9 12 15 13    15.0 1   341.0     1.00    10.60    99.00    99.00
 9 12 15 14    15.0 1   346.0     1.50    11.00    99.00    99.00
 9 12 15 15    15.0 1   326.0     1.00    11.10    99.00    99.00
 9 12 15 16    15.0 1   318.0     0.50    10.90    99.00    99.00
 9 12 15 17    15.0 1     0.0     0.00    10.60    99.00    99.00
 9 12 15 18    15.0 1     0.0     0.00    10.40    99.00    99.00
 9 12 15 19    15.0 1     0.0     0.00    10.10    99.00    99.00
 9 12 15 20    15.0 1     0.0     0.00     9.90    99.00    99.00
 9 12 15 21    15.0 1     0.0     0.00     9.80    99.00    99.00
 9 12 15 22    15.0 1     0.0     0.00     9.60    99.00    99.00
 9 12 15 23    15.0 1     0.0     0.00     9.60    99.00    99.00
 9 12 15 24    15.0 1     0.0     0.00     9.60    99.00    99.00
 9 12 16  1    15.0 1     0.0     0.00     9.60    99.00    99.00
 9 12 16  2    15.0 1     0.0     0.00     9.50    99.00    99.00
 9 12 16  3    15.0 1     0.0     0.00     9.40    99.00    99.00
 9 12 16  4    15.0 1     0.0     0.00     9.10    99.00    99.00
 9 12 16  5    15.0 1     0.0     0.00     9.10    99.00    99.00
 9 12 16  6    15.0 1     0.0     0.00     8.60    99.00    99.00
 9 12 16  7    15.0 1     0.0     0.00     8.10    99.00    99.00
 9 12 16  8    15.0 1     0.0     0.00     7.80    99.00    99.00
 9 12 16  9    15.0 1     0.0     0.00     8.90    99.00    99.00
 9 12 16 10    15.0 1     0.0     0.00    11.40    99.00    99.00
 9 12 16 11    15.0 1     0.0     0.00    13.00    99.00    99.00
 9 12 16 12    15.0 1   305.0     1.00    14.50    99.00    99.00
 9 12 16 13    15.0 1   296.0     1.50    15.40    99.00    99.00
 9 12 16 14    15.0 1   306.0     1.50    15.90    99.00    99.00
 9 12 16 15    15.0 1   323.0     1.50    16.10    99.00    99.00
 9 12 16 16    15.0 1   323.0     2.10    17.40    99.00    99.00
 9 12 16 17    15.0 1   332.0     2.60    16.60    99.00    99.00
 9 12 16 18    15.0 1   329.0     1.50    15.60    99.00    99.00
 9 12 16 19    15.0 1   323.0     1.00    14.60    99.00    99.00
 9 12 16 20    15.0 1   296.0     0.50    13.60    99.00    99.00
 9 12 16 21    15.0 1   292.0     0.50    12.80    99.00    99.00
 9 12 16 22    15.0 1   298.0     0.50    12.10    99.00    99.00
 9 12 16 23    15.0 1   301.0     0.50    11.50    99.00    99.00
 9 12 16 24    15.0 1   305.0     1.00    10.90    99.00    99.00
 9 12 17  1    15.0 1   300.0     1.00    10.50    99.00    99.00
 9 12 17  2    15.0 1   305.0     1.50    10.10    99.00    99.00
 9 12 17  3    15.0 1   283.0     1.00     9.80    99.00    99.00
 9 12 17  4    15.0 1   266.0     1.00     9.40    99.00    99.00
 9 12 17  5    15.0 1   258.0     1.00     9.10    99.00    99.00
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 9 12 17  6    15.0 1   256.0     1.50     8.80    99.00    99.00
 9 12 17  7    15.0 1   257.0     1.50     8.40    99.00    99.00
 9 12 17  8    15.0 1   259.0     1.50     8.10    99.00    99.00
 9 12 17  9    15.0 1   287.0     1.50     9.00    99.00    99.00
 9 12 17 10    15.0 1   324.0     2.10    10.60    99.00    99.00
 9 12 17 11    15.0 1   320.0     1.50    12.00    99.00    99.00
 9 12 17 12    15.0 1   306.0     2.10    12.80    99.00    99.00
 9 12 17 13    15.0 1   313.0     2.60    13.30    99.00    99.00
 9 12 17 14    15.0 1   308.0     2.60    13.60    99.00    99.00
 9 12 17 15    15.0 1   323.0     2.10    13.90    99.00    99.00
 9 12 17 16    15.0 1   309.0     1.50    13.80    99.00    99.00
 9 12 17 17    15.0 1   284.0     0.50    13.10    99.00    99.00
 9 12 17 18    15.0 1     0.0     0.00    12.10    99.00    99.00
 9 12 17 19    15.0 1   173.0     0.50    11.10    99.00    99.00
 9 12 17 20    15.0 1   168.0     1.00    10.00    99.00    99.00
 9 12 17 21    15.0 1   159.0     1.00     9.10    99.00    99.00
 9 12 17 22    15.0 1   160.0     0.50     8.50    99.00    99.00
 9 12 17 23    15.0 1   209.0     0.50     8.10    99.00    99.00
 9 12 17 24    15.0 1   267.0     1.00     7.80    99.00    99.00
 9 12 18  1    15.0 1   280.0     1.50     7.50    99.00    99.00
 9 12 18  2    15.0 1   290.0     1.50     7.10    99.00    99.00
 9 12 18  3    15.0 1   276.0     1.00     6.60    99.00    99.00
 9 12 18  4    15.0 1   257.0     1.00     6.40    99.00    99.00
 9 12 18  5    15.0 1   250.0     1.00     6.10    99.00    99.00
 9 12 18  6    15.0 1   227.0     1.00     5.90    99.00    99.00
 9 12 18  7    15.0 1   215.0     1.00     5.60    99.00    99.00
 9 12 18  8    15.0 1   191.0     1.00     5.50    99.00    99.00
 9 12 18  9    15.0 1   206.0     0.50     6.60    99.00    99.00
 9 12 18 10    15.0 1   244.0     0.50     9.00    99.00    99.00
 9 12 18 11    15.0 1   269.0     0.50    10.60    99.00    99.00
 9 12 18 12    15.0 1   291.0     0.50    11.90    99.00    99.00
 9 12 18 13    15.0 1   305.0     0.50    12.80    99.00    99.00
 9 12 18 14    15.0 1   324.0     1.00    13.60    99.00    99.00
 9 12 18 15    15.0 1   340.0     1.00    13.90    99.00    99.00
 9 12 18 16    15.0 1    21.0     1.00    13.90    99.00    99.00
 9 12 18 17    15.0 1    69.0     1.00    13.10    99.00    99.00
 9 12 18 18    15.0 1   123.0     0.50    12.10    99.00    99.00
 9 12 18 19    15.0 1   159.0     0.50    11.30    99.00    99.00
 9 12 18 20    15.0 1     0.0     0.00    10.60    99.00    99.00
 9 12 18 21    15.0 1    86.0     0.50    10.00    99.00    99.00
 9 12 18 22    15.0 1    98.0     0.50     9.50    99.00    99.00
 9 12 18 23    15.0 1     0.0     0.00     9.10    99.00    99.00
 9 12 18 24    15.0 1     0.0     0.00     9.10    99.00    99.00
 9 12 19  1    15.0 1     0.0     0.00     9.00    99.00    99.00
 9 12 19  2    15.0 1   280.0     0.50     8.90    99.00    99.00
 9 12 19  3    15.0 1   270.0     0.50     8.60    99.00    99.00
 9 12 19  4    15.0 1   257.0     1.00     8.60    99.00    99.00
 9 12 19  5    15.0 1   260.0     1.50     8.60    99.00    99.00
 9 12 19  6    15.0 1   261.0     2.10     8.90    99.00    99.00
 9 12 19  7    15.0 1   260.0     2.10     9.10    99.00    99.00
 9 12 19  8    15.0 1   255.0     1.50     9.10    99.00    99.00
 9 12 19  9    15.0 1   258.0     1.50     9.30    99.00    99.00
 9 12 19 10    15.0 1   281.0     2.10    10.10    99.00    99.00
 9 12 19 11    15.0 1   298.0     2.10    12.30    99.00    99.00
 9 12 19 12    15.0 1   310.0     2.10    13.10    99.00    99.00
 9 12 19 13    15.0 1   322.0     2.10    13.30    99.00    99.00
 9 12 19 14    15.0 1   337.0     2.10    13.10    99.00    99.00
 9 12 19 15    15.0 1     1.0     2.10    13.00    99.00    99.00
 9 12 19 16    15.0 1     9.0     1.50    12.60    99.00    99.00
 9 12 19 17    15.0 1    21.0     0.50    12.40    99.00    99.00
 9 12 19 18    15.0 1     0.0     0.00    12.10    99.00    99.00
 9 12 19 19    15.0 1     0.0     0.00    11.60    99.00    99.00
 9 12 19 20    15.0 1     0.0     0.00    11.30    99.00    99.00
 9 12 19 21    15.0 1     0.0     0.00    11.00    99.00    99.00
 9 12 19 22    15.0 1   350.0     0.50    10.60    99.00    99.00
 9 12 19 23    15.0 1     2.0     1.00    10.40    99.00    99.00
 9 12 19 24    15.0 1   360.0     1.50    10.10    99.00    99.00
 9 12 20  1    15.0 1   354.0     1.50    10.10    99.00    99.00
 9 12 20  2    15.0 1   342.0     1.50    10.10    99.00    99.00
 9 12 20  3    15.0 1   331.0     1.50     9.90    99.00    99.00
 9 12 20  4    15.0 1   326.0     1.00     9.80    99.00    99.00
 9 12 20  5    15.0 1   317.0     0.50     9.60    99.00    99.00
 9 12 20  6    15.0 1   311.0     0.50     9.60    99.00    99.00
 9 12 20  7    15.0 1   346.0     0.50     9.50    99.00    99.00
 9 12 20  8    15.0 1     0.0     0.00     9.40    99.00    99.00
 9 12 20  9    15.0 1     0.0     0.00     9.40    99.00    99.00
 9 12 20 10    15.0 1     8.0     0.50    10.10    99.00    99.00
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 9 12 20 11     15.0 1   346.0      1.00     11.80     99.00     99.00
 9 12 20 12     15.0 1   343.0      1.50     12.60     99.00     99.00
 9 12 20 13     15.0 1   339.0      2.10     13.10     99.00     99.00
 9 12 20 14     15.0 1   342.0      2.10     13.40     99.00     99.00
 9 12 20 15     15.0 1   338.0      2.60     13.40     99.00     99.00
 9 12 20 16     15.0 1   350.0      2.10     13.30     99.00     99.00
 9 12 20 17     15.0 1     2.0      0.50     12.90     99.00     99.00
 9 12 20 18     15.0 1   162.0      0.50     12.10     99.00     99.00
 9 12 20 19     15.0 1   171.0      0.50     11.10     99.00     99.00
 9 12 20 20     15.0 1     0.0      0.00     10.60     99.00     99.00
 9 12 20 21     15.0 1     0.0      0.00     10.00     99.00     99.00
 9 12 20 22     15.0 1     0.0      0.00      9.40     99.00     99.00
 9 12 20 23     15.0 1    75.0      0.50      9.00     99.00     99.00
 9 12 20 24     15.0 1    70.0      0.50      8.60     99.00     99.00
 9 12 21  1     15.0 1    82.0      0.50      8.40     99.00     99.00
 9 12 21  2     15.0 1    98.0      0.50      8.30     99.00     99.00
 9 12 21  3     15.0 1    88.0      0.50      8.10     99.00     99.00
 9 12 21  4     15.0 1   106.0      0.50      8.30     99.00     99.00
 9 12 21  5     15.0 1   132.0      0.50      8.40     99.00     99.00
 9 12 21  6     15.0 1   144.0      0.50      8.60     99.00     99.00
 9 12 21  7     15.0 1   118.0      1.00      8.60     99.00     99.00
 9 12 21  8     15.0 1   130.0      0.50      8.80     99.00     99.00
 9 12 21  9     15.0 1   100.0      0.50      9.10     99.00     99.00
 9 12 21 10     15.0 1    74.0      0.50      9.90     99.00     99.00
 9 12 21 11     15.0 1     0.0      0.00     11.80     99.00     99.00
 9 12 21 12     15.0 1     0.0      0.00     13.60     99.00     99.00
 9 12 21 13     15.0 1    63.0      0.50     14.60     99.00     99.00
 9 12 21 14     15.0 1    65.0      0.50     15.10     99.00     99.00
 9 12 21 15     15.0 1     0.0      0.00     15.10     99.00     99.00
 9 12 21 16     15.0 1     0.0      0.00     15.50     99.00     99.00
 9 12 21 17     15.0 1     0.0      0.00     15.00     99.00     99.00
 9 12 21 18     15.0 1     0.0      0.00     14.50     99.00     99.00
 9 12 21 19     15.0 1   254.0      0.50     14.10     99.00     99.00
 9 12 21 20     15.0 1   270.0      1.50     13.40     99.00     99.00
 9 12 21 21     15.0 1   281.0      2.60     12.60     99.00     99.00
 9 12 21 22     15.0 1   286.0      4.10     11.60     99.00     99.00
 9 12 21 23     15.0 1   287.0      4.60     11.10     99.00     99.00
 9 12 21 24     15.0 1   294.0      4.60     10.90     99.00     99.00
 9 12 22  1     15.0 1   299.0      4.60     10.80     99.00     99.00
 9 12 22  2     15.0 1   303.0      4.60     10.60     99.00     99.00
 9 12 22  3     15.0 1   298.0      5.10     10.10     99.00     99.00
 9 12 22  4     15.0 1   312.0      4.60      8.60     99.00     99.00
 9 12 22  5     15.0 1   310.0      5.10      7.90     99.00     99.00
 9 12 22  6     15.0 1   312.0      6.20      7.80     99.00     99.00
 9 12 22  7     15.0 1   325.0      7.20      7.30     99.00     99.00
 9 12 22  8     15.0 1   320.0      6.20      6.50     99.00     99.00
 9 12 22  9     15.0 1   332.0      8.70      7.10     99.00     99.00
 9 12 22 10     15.0 1   326.0      8.70      8.00     99.00     99.00
 9 12 22 11     15.0 1   335.0      8.70      8.60     99.00     99.00
 9 12 22 12     15.0 1   326.0      8.20      8.90     99.00     99.00
 9 12 22 13     15.0 1   332.0      8.70      9.40     99.00     99.00
 9 12 22 14     15.0 1   334.0      8.70      9.60     99.00     99.00
 9 12 22 15     15.0 1   320.0      8.70      9.60     99.00     99.00
 9 12 22 16     15.0 1   324.0      5.10      9.10     99.00     99.00
 9 12 22 17     15.0 1   315.0      4.60      7.60     99.00     99.00
 9 12 22 18     15.0 1   315.0      4.10      6.50     99.00     99.00
 9 12 22 19     15.0 1   306.0      3.10      5.80     99.00     99.00
 9 12 22 20     15.0 1   326.0      1.50      5.40     99.00     99.00
 9 12 22 21     15.0 1   148.0      0.50      5.00     99.00     99.00
 9 12 22 22     15.0 1   117.0      1.00      5.10     99.00     99.00
 9 12 22 23     15.0 1   127.0      2.60      4.90     99.00     99.00
 9 12 22 24     15.0 1   128.0      2.60      4.90     99.00     99.00
 9 12 23  1     15.0 1    99.0      1.50      4.90     99.00     99.00
 9 12 23  2     15.0 1    90.0      0.50      4.50     99.00     99.00
 9 12 23  3     15.0 1   309.0      0.50      3.90     99.00     99.00
 9 12 23  4     15.0 1   320.0      0.50      3.50     99.00     99.00
 9 12 23  5     15.0 1   307.0      0.50      3.10     99.00     99.00
 9 12 23  6     15.0 1   271.0      0.50      2.80     99.00     99.00
 9 12 23  7     15.0 1   249.0      0.50      2.40     99.00     99.00
 9 12 23  8     15.0 1   237.0      1.50      2.00     99.00     99.00
 9 12 23  9     15.0 1   255.0      1.00      2.90     99.00     99.00
 9 12 23 10     15.0 1   320.0      0.50      5.00     99.00     99.00
 9 12 23 11     15.0 1     0.0      0.00      6.00     99.00     99.00
 9 12 23 12     15.0 1     0.0      0.00      7.10     99.00     99.00
 9 12 23 13     15.0 1   239.0      0.50      8.10     99.00     99.00
 9 12 23 14     15.0 1   316.0      0.50      9.10     99.00     99.00
 9 12 23 15     15.0 1   350.0      1.50      9.50     99.00     99.00
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 9 12 23 16     15.0 1   358.0      1.50      9.40     99.00     99.00
 9 12 23 17     15.0 1     8.0      0.50      8.60     99.00     99.00
 9 12 23 18     15.0 1     0.0      0.00      7.60     99.00     99.00
 9 12 23 19     15.0 1   116.0      0.50      6.60     99.00     99.00
 9 12 23 20     15.0 1   129.0      1.00      5.60     99.00     99.00
 9 12 23 21     15.0 1   126.0      1.00      4.80     99.00     99.00
 9 12 23 22     15.0 1   107.0      0.50      4.10     99.00     99.00
 9 12 23 23     15.0 1    88.0      0.50      3.60     99.00     99.00
 9 12 23 24     15.0 1    89.0      0.50      2.90     99.00     99.00
 9 12 24  1     15.0 1     0.0      0.00      2.40     99.00     99.00
 9 12 24  2     15.0 1     0.0      0.00      2.00     99.00     99.00
 9 12 24  3     15.0 1   280.0      0.50      1.90     99.00     99.00
 9 12 24  4     15.0 1   294.0      1.00      1.80     99.00     99.00
 9 12 24  5     15.0 1   295.0      1.00      1.60     99.00     99.00
 9 12 24  6     15.0 1   292.0      1.50      1.40     99.00     99.00
 9 12 24  7     15.0 1   277.0      1.50      1.30     99.00     99.00
 9 12 24  8     15.0 1   292.0      1.50      1.10     99.00     99.00
 9 12 24  9     15.0 1   308.0      1.50      2.60     99.00     99.00
 9 12 24 10     15.0 1   324.0      1.50      4.90     99.00     99.00
 9 12 24 11     15.0 1   328.0      1.00      6.80     99.00     99.00
 9 12 24 12     15.0 1   333.0      1.00      8.60     99.00     99.00
 9 12 24 13     15.0 1   327.0      1.50     10.00     99.00     99.00
 9 12 24 14     15.0 1   337.0      1.50     10.60     99.00     99.00
 9 12 24 15     15.0 1   355.0      2.10     10.90     99.00     99.00
 9 12 24 16     15.0 1     4.0      2.10     10.50     99.00     99.00
 9 12 24 17     15.0 1     0.0      0.00      9.60     99.00     99.00
 9 12 24 18     15.0 1   356.0      1.50      8.60     99.00     99.00
 9 12 24 19     15.0 1   345.0      0.50      7.50     99.00     99.00
 9 12 24 20     15.0 1   337.0      0.50      6.40     99.00     99.00
 9 12 24 21     15.0 1     0.0      0.00      5.50     99.00     99.00
 9 12 24 22     15.0 1     5.0      0.50      4.80     99.00     99.00
 9 12 24 23     15.0 1   351.0      1.00      4.30     99.00     99.00
 9 12 24 24     15.0 1   343.0      1.00      3.60     99.00     99.00
 9 12 25  1     15.0 1   320.0      1.00      3.30     99.00     99.00
 9 12 25  2     15.0 1   307.0      1.50      2.90     99.00     99.00
 9 12 25  3     15.0 1   310.0      1.50      2.60     99.00     99.00
 9 12 25  4     15.0 1   310.0      1.50      2.30     99.00     99.00
 9 12 25  5     15.0 1   309.0      1.50      2.00     99.00     99.00
 9 12 25  6     15.0 1   301.0      1.50      1.80     99.00     99.00
 9 12 25  7     15.0 1   289.0      1.50      1.60     99.00     99.00
 9 12 25  8     15.0 1   277.0      1.50      1.50     99.00     99.00
 9 12 25  9     15.0 1   305.0      2.10      3.00     99.00     99.00
 9 12 25 10     15.0 1   299.0      1.50      5.10     99.00     99.00
 9 12 25 11     15.0 1   296.0      1.50      6.80     99.00     99.00
 9 12 25 12     15.0 1   304.0      1.00      8.60     99.00     99.00
 9 12 25 13     15.0 1   310.0      1.00     10.10     99.00     99.00
 9 12 25 14     15.0 1   319.0      1.00     10.80     99.00     99.00
 9 12 25 15     15.0 1   340.0      1.50     11.10     99.00     99.00
 9 12 25 16     15.0 1   353.0      1.50     10.80     99.00     99.00
 9 12 25 17     15.0 1    12.0      1.50      9.90     99.00     99.00
 9 12 25 18     15.0 1   345.0      0.50      8.60     99.00     99.00
 9 12 25 19     15.0 1     0.0      0.00      7.50     99.00     99.00
 9 12 25 20     15.0 1     0.0      0.00      6.40     99.00     99.00
 9 12 25 21     15.0 1     0.0      0.00      5.50     99.00     99.00
 9 12 25 22     15.0 1     0.0      0.00      4.60     99.00     99.00
 9 12 25 23     15.0 1     0.0      0.00      4.00     99.00     99.00
 9 12 25 24     15.0 1     0.0      0.00      3.50     99.00     99.00
 9 12 26  1     15.0 1     0.0      0.00      3.00     99.00     99.00
 9 12 26  2     15.0 1     0.0      0.00      2.60     99.00     99.00
 9 12 26  3     15.0 1   297.0      0.50      2.60     99.00     99.00
 9 12 26  4     15.0 1     8.0      1.00      2.60     99.00     99.00
 9 12 26  5     15.0 1   309.0      1.00      2.60     99.00     99.00
 9 12 26  6     15.0 1   352.0      1.00      2.80     99.00     99.00
 9 12 26  7     15.0 1   347.0      0.50      2.90     99.00     99.00
 9 12 26  8     15.0 1     3.0      0.50      2.90     99.00     99.00
 9 12 26  9     15.0 1   348.0      0.50      3.10     99.00     99.00
 9 12 26 10     15.0 1     0.0      0.00      4.10     99.00     99.00
 9 12 26 11     15.0 1   347.0      1.00      6.10     99.00     99.00
 9 12 26 12     15.0 1   328.0      1.00      6.80     99.00     99.00
 9 12 26 13     15.0 1   319.0      1.50      7.00     99.00     99.00
 9 12 26 14     15.0 1   327.0      1.50      7.30     99.00     99.00
 9 12 26 15     15.0 1   343.0      1.50      7.30     99.00     99.00
 9 12 26 16     15.0 1   308.0      1.50      9.10     99.00     99.00
 9 12 26 17     15.0 1   318.0      1.50      8.60     99.00     99.00
 9 12 26 18     15.0 1   352.0      1.00      8.50     99.00     99.00
 9 12 26 19     15.0 1    32.0      0.50      8.40     99.00     99.00
 9 12 26 20     15.0 1     0.0      0.00      8.30     99.00     99.00
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 9 12 26 21     15.0 1      0.0      0.00      8.00     99.00     99.00
 9 12 26 22     15.0 1      0.0      0.00      7.40     99.00     99.00
 9 12 26 23     15.0 1     23.0      0.50      7.50     99.00     99.00
 9 12 26 24     15.0 1    349.0      2.10      7.00     99.00     99.00
 9 12 27  1     15.0 1     20.0      3.10      6.60     99.00     99.00
 9 12 27  2     15.0 1     42.0      4.10      6.30     99.00     99.00
 9 12 27  3     15.0 1     44.0      3.10      5.80     99.00     99.00
 9 12 27  4     15.0 1    345.0      1.50      5.60     99.00     99.00
 9 12 27  5     15.0 1    291.0      2.60      5.30     99.00     99.00
 9 12 27  6     15.0 1    285.0      3.10      4.60     99.00     99.00
 9 12 27  7     15.0 1    286.0      2.10      4.30     99.00     99.00
 9 12 27  8     15.0 1    331.0      0.50      4.00     99.00     99.00
 9 12 27  9     15.0 1     44.0      0.50      5.10     99.00     99.00
 9 12 27 10     15.0 1      0.0      0.00      8.00     99.00     99.00
 9 12 27 11     15.0 1      0.0      0.00      9.90     99.00     99.00
 9 12 27 12     15.0 1      0.0      0.00     11.50     99.00     99.00
 9 12 27 13     15.0 1    333.0      0.50     12.40     99.00     99.00
 9 12 27 14     15.0 1    332.0      1.50     12.80     99.00     99.00
 9 12 27 15     15.0 1    342.0      2.10     12.80     99.00     99.00
 9 12 27 16     15.0 1    350.0      2.60     12.30     99.00     99.00
 9 12 27 17     15.0 1      6.0      3.10     11.50     99.00     99.00
 9 12 27 18     15.0 1     11.0      2.10     10.60     99.00     99.00
 9 12 27 19     15.0 1    341.0      0.50      9.90     99.00     99.00
 9 12 27 20     15.0 1      0.0      0.00      9.10     99.00     99.00
 9 12 27 21     15.0 1      0.0      0.00      8.50     99.00     99.00
 9 12 27 22     15.0 1      0.0      0.00      8.10     99.00     99.00
 9 12 27 23     15.0 1      7.0      0.50      7.60     99.00     99.00
 9 12 27 24     15.0 1    340.0      1.00      7.50     99.00     99.00
 9 12 28  1     15.0 1    322.0      1.50      7.40     99.00     99.00
 9 12 28  2     15.0 1    315.0      1.50      7.50     99.00     99.00
 9 12 28  3     15.0 1    298.0      2.10      7.40     99.00     99.00
 9 12 28  4     15.0 1    308.0      2.10      7.30     99.00     99.00
 9 12 28  5     15.0 1    314.0      2.60      7.10     99.00     99.00
 9 12 28  6     15.0 1    316.0      2.60      7.10     99.00     99.00
 9 12 28  7     15.0 1    323.0      1.50      7.00     99.00     99.00
 9 12 28  8     15.0 1    326.0      1.50      6.90     99.00     99.00
 9 12 28  9     15.0 1    323.0      1.00      6.90     99.00     99.00
 9 12 28 10     15.0 1    324.0      2.10      7.90     99.00     99.00
 9 12 28 11     15.0 1    322.0      2.60      8.80     99.00     99.00
 9 12 28 12     15.0 1    326.0      2.60     10.00     99.00     99.00
 9 12 28 13     15.0 1    336.0      2.60     11.00     99.00     99.00
 9 12 28 14     15.0 1    352.0      2.10     11.80     99.00     99.00
 9 12 28 15     15.0 1    346.0      2.60     12.10     99.00     99.00
 9 12 28 16     15.0 1     10.0      2.60     11.80     99.00     99.00
 9 12 28 17     15.0 1     25.0      2.60     11.10     99.00     99.00
 9 12 28 18     15.0 1     21.0      2.60     10.60     99.00     99.00
 9 12 28 19     15.0 1     24.0      2.10     10.30     99.00     99.00
 9 12 28 20     15.0 1     18.0      1.50     10.00     99.00     99.00
 9 12 28 21     15.0 1      6.0      1.50      9.60     99.00     99.00
 9 12 28 22     15.0 1    356.0      1.50      9.30     99.00     99.00
 9 12 28 23     15.0 1    324.0      1.50      9.00     99.00     99.00
 9 12 28 24     15.0 1    308.0      2.10      8.40     99.00     99.00
 9 12 29  1     15.0 1    301.0      2.60      7.60     99.00     99.00
 9 12 29  2     15.0 1    292.0      3.60      6.60     99.00     99.00
 9 12 29  3     15.0 1    291.0      3.60      5.60     99.00     99.00
 9 12 29  4     15.0 1    291.0      2.60      5.10     99.00     99.00
 9 12 29  5     15.0 1    288.0      2.10      4.60     99.00     99.00
 9 12 29  6     15.0 1    261.0      1.00      4.40     99.00     99.00
 9 12 29  7     15.0 1    247.0      1.00      4.10     99.00     99.00
 9 12 29  8     15.0 1    230.0      0.50      3.90     99.00     99.00
 9 12 29  9     15.0 1      0.0      0.00      4.80     99.00     99.00
 9 12 29 10     15.0 1      0.0      0.00      6.60     99.00     99.00
 9 12 29 11     15.0 1      0.0      0.00      8.30     99.00     99.00
 9 12 29 12     15.0 1      0.0      0.00      9.50     99.00     99.00
 9 12 29 13     15.0 1      0.0      0.00     10.40     99.00     99.00
 9 12 29 14     15.0 1      0.0      0.00     11.10     99.00     99.00
 9 12 29 15     15.0 1      0.0      0.00     11.50     99.00     99.00
 9 12 29 16     15.0 1      0.0      0.00     11.50     99.00     99.00
 9 12 29 17     15.0 1     78.0      0.50     10.90     99.00     99.00
 9 12 29 18     15.0 1     91.0      0.50     10.10     99.00     99.00
 9 12 29 19     15.0 1    116.0      1.00      9.40     99.00     99.00
 9 12 29 20     15.0 1    136.0      1.50      8.80     99.00     99.00
 9 12 29 21     15.0 1    158.0      2.10      8.50     99.00     99.00
 9 12 29 22     15.0 1    151.0      2.60      8.40     99.00     99.00
 9 12 29 23     15.0 1    136.0      3.10      8.30     99.00     99.00
 9 12 29 24     15.0 1    136.0      3.10      8.30     99.00     99.00
 9 12 30  1     15.0 1    137.0      3.10      8.40     99.00     99.00
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 9 12 30  2    15.0 1   130.0     3.10     8.40    99.00    99.00
 9 12 30  3    15.0 1   127.0     3.10     8.50    99.00    99.00
 9 12 30  4    15.0 1   144.0     2.10     8.60    99.00    99.00
 9 12 30  5    15.0 1   142.0     1.00     8.60    99.00    99.00
 9 12 30  6    15.0 1    67.0     0.50     8.50    99.00    99.00
 9 12 30  7    15.0 1    56.0     0.50     8.30    99.00    99.00
 9 12 30  8    15.0 1    49.0     0.50     8.10    99.00    99.00
 9 12 30  9    15.0 1     0.0     0.00     8.10    99.00    99.00
 9 12 30 10    15.0 1   254.0     0.50     8.30    99.00    99.00
 9 12 30 11    15.0 1   154.0     1.00    10.00    99.00    99.00
 9 12 30 12    15.0 1   146.0     1.50    10.60    99.00    99.00
 9 12 30 13    15.0 1   148.0     0.50    10.90    99.00    99.00
 9 12 30 14    15.0 1   205.0     0.50    11.00    99.00    99.00
 9 12 30 15    15.0 1   231.0     1.00    10.90    99.00    99.00
 9 12 30 16    15.0 1   252.0     1.00    10.60    99.00    99.00
 9 12 30 17    15.0 1   241.0     1.00    10.10    99.00    99.00
 9 12 30 18    15.0 1     0.0     0.00     9.50    99.00    99.00
 9 12 30 19    15.0 1    88.0     0.50     8.60    99.00    99.00
 9 12 30 20    15.0 1   110.0     0.50     7.80    99.00    99.00
 9 12 30 21    15.0 1   117.0     1.00     7.10    99.00    99.00
 9 12 30 22    15.0 1   131.0     2.10     6.60    99.00    99.00
 9 12 30 23    15.0 1   128.0     3.10     6.40    99.00    99.00
 9 12 30 24    15.0 1   128.0     3.10     6.50    99.00    99.00
 9 12 31  1    15.0 1   117.0     1.50     6.00    99.00    99.00
 9 12 31  2    15.0 1    92.0     0.50     4.40    99.00    99.00
 9 12 31  3    15.0 1   315.0     0.50     3.30    99.00    99.00
 9 12 31  4    15.0 1     0.0     0.00     3.10    99.00    99.00
 9 12 31  5    15.0 1     0.0     0.00     2.90    99.00    99.00
 9 12 31  6    15.0 1     0.0     0.00     3.30    99.00    99.00
 9 12 31  7    15.0 1   343.0     0.50     4.00    99.00    99.00
 9 12 31  8    15.0 1   334.0     1.00     4.10    99.00    99.00
 9 12 31  9    15.0 1   323.0     1.00     4.10    99.00    99.00
 9 12 31 10    15.0 1   329.0     1.00     4.60    99.00    99.00
 9 12 31 11    15.0 1   333.0     1.50     5.10    99.00    99.00
 9 12 31 12    15.0 1   340.0     1.50     5.60    99.00    99.00
 9 12 31 13    15.0 1     3.0     1.50     6.60    99.00    99.00
 9 12 31 14    15.0 1     1.0     1.50     8.10    99.00    99.00
 9 12 31 15    15.0 1     0.0     0.00     8.60    99.00    99.00
 9 12 31 16    15.0 1    14.0     3.10    12.00    99.00    99.00
 9 12 31 17    15.0 1    10.0     2.60    11.10    99.00    99.00
 9 12 31 18    15.0 1     0.0     0.00    10.40    99.00    99.00
 9 12 31 19    15.0 1   353.0     1.00    10.00    99.00    99.00
 9 12 31 20    15.0 1   347.0     0.50     9.60    99.00    99.00
 9 12 31 21    15.0 1     0.0     0.00     9.40    99.00    99.00
 9 12 31 22    15.0 1     0.0     0.00     9.30    99.00    99.00
 9 12 31 23    15.0 1     0.0     0.00     9.40    99.00    99.00
 9 12 31 24    15.0 1     0.0     0.00     9.30    99.00    99.00
10  1  1  1    15.0 1     0.0     0.00     9.10    99.00    99.00
10  1  1  2    15.0 1     0.0     0.00     9.10    99.00    99.00
10  1  1  3    15.0 1    64.0     0.50     9.10    99.00    99.00
10  1  1  4    15.0 1    63.0     1.00     9.10    99.00    99.00
10  1  1  5    15.0 1    43.0     0.50     9.10    99.00    99.00
10  1  1  6    15.0 1   342.0     0.50     9.10    99.00    99.00
10  1  1  7    15.0 1   315.0     0.50     9.10    99.00    99.00
10  1  1  8    15.0 1   333.0     0.50     9.10    99.00    99.00
10  1  1  9    15.0 1   357.0     1.00     9.50    99.00    99.00
10  1  1 10    15.0 1     0.0     0.00    10.80    99.00    99.00
10  1  1 11    15.0 1   354.0     1.00    11.60    99.00    99.00
10  1  1 12    15.0 1   326.0     1.00    12.60    99.00    99.00
10  1  1 13    15.0 1   313.0     1.00    13.40    99.00    99.00
10  1  1 14    15.0 1   299.0     1.00    13.80    99.00    99.00
10  1  1 15    15.0 1   292.0     1.00    13.90    99.00    99.00
10  1  1 16    15.0 1   314.0     0.50    13.60    99.00    99.00
10  1  1 17    15.0 1    21.0     0.50    13.30    99.00    99.00
10  1  1 18    15.0 1    57.0     0.50    12.60    99.00    99.00
10  1  1 19    15.0 1     0.0     0.00    12.00    99.00    99.00
10  1  1 20    15.0 1     0.0     0.00    11.10    99.00    99.00
10  1  1 21    15.0 1     0.0     0.00    10.50    99.00    99.00
10  1  1 22    15.0 1     0.0     0.00     9.90    99.00    99.00
10  1  1 23    15.0 1     0.0     0.00     9.40    99.00    99.00
10  1  1 24    15.0 1     0.0     0.00     8.90    99.00    99.00
10  1  2  1    15.0 1    76.0     0.50     8.60    99.00    99.00
10  1  2  2    15.0 1    62.0     0.50     8.10    99.00    99.00
10  1  2  3    15.0 1     0.0     0.00     8.00    99.00    99.00
10  1  2  4    15.0 1     0.0     0.00     7.60    99.00    99.00
10  1  2  5    15.0 1     0.0     0.00     7.30    99.00    99.00
10  1  2  6    15.0 1     0.0     0.00     6.10    99.00    99.00
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10  1  2  7    15.0 1     0.0     0.00     5.10    99.00    99.00
10  1  2  8    15.0 1     0.0     0.00     5.10    99.00    99.00
10  1  2  9    15.0 1   350.0     0.50     6.50    99.00    99.00
10  1  2 10    15.0 1   331.0     0.50     7.50    99.00    99.00
10  1  2 11    15.0 1   335.0     0.50     8.10    99.00    99.00
10  1  2 12    15.0 1   331.0     0.50     8.90    99.00    99.00
10  1  2 13    15.0 1   299.0     0.50     9.60    99.00    99.00
10  1  2 14    15.0 1   297.0     1.00    10.10    99.00    99.00
10  1  2 15    15.0 1   310.0     1.50    10.30    99.00    99.00
10  1  2 16    15.0 1   354.0     1.50    10.10    99.00    99.00
10  1  2 17    15.0 1    28.0     1.50     9.90    99.00    99.00
10  1  2 18    15.0 1    51.0     1.50     9.80    99.00    99.00
10  1  2 19    15.0 1    42.0     1.00     9.60    99.00    99.00
10  1  2 20    15.0 1   355.0     1.00     9.60    99.00    99.00
10  1  2 21    15.0 1     0.0     0.00     9.50    99.00    99.00
10  1  2 22    15.0 1   355.0     1.00     8.90    99.00    99.00
10  1  2 23    15.0 1   337.0     0.50     8.50    99.00    99.00
10  1  2 24    15.0 1   298.0     0.50     8.30    99.00    99.00
10  1  3  1    15.0 1   310.0     0.50     8.10    99.00    99.00
10  1  3  2    15.0 1   336.0     0.50     8.00    99.00    99.00
10  1  3  3    15.0 1   354.0     1.00     7.90    99.00    99.00
10  1  3  4    15.0 1   320.0     1.00     7.90    99.00    99.00
10  1  3  5    15.0 1   317.0     1.00     7.90    99.00    99.00
10  1  3  6    15.0 1   349.0     1.00     7.90    99.00    99.00
10  1  3  7    15.0 1   316.0     0.50     7.80    99.00    99.00
10  1  3  8    15.0 1   339.0     1.00     7.60    99.00    99.00
10  1  3  9    15.0 1   298.0     1.50     7.60    99.00    99.00
10  1  3 10    15.0 1   304.0     1.50     7.80    99.00    99.00
10  1  3 11    15.0 1   352.0     1.00     8.10    99.00    99.00
10  1  3 12    15.0 1   338.0     0.50     8.80    99.00    99.00
10  1  3 13    15.0 1   331.0     0.50    10.40    99.00    99.00
10  1  3 14    15.0 1     0.0     0.00    12.60    99.00    99.00
10  1  3 15    15.0 1     0.0     0.00    12.90    99.00    99.00
10  1  3 16    15.0 1    80.0     1.50    12.60    99.00    99.00
10  1  3 17    15.0 1    69.0     3.10    12.10    99.00    99.00
10  1  3 18    15.0 1   101.0     3.10    11.90    99.00    99.00
10  1  3 19    15.0 1   107.0     1.00    12.10    99.00    99.00
10  1  3 20    15.0 1   308.0     2.10    12.00    99.00    99.00
10  1  3 21    15.0 1   317.0     3.60    11.40    99.00    99.00
10  1  3 22    15.0 1   339.0     3.60    11.00    99.00    99.00
10  1  3 23    15.0 1    21.0     4.10    10.90    99.00    99.00
10  1  3 24    15.0 1     7.0     3.60    11.00    99.00    99.00
10  1  4  1    15.0 1   346.0     2.60    11.10    99.00    99.00
10  1  4  2    15.0 1    16.0     1.50    11.30    99.00    99.00
10  1  4  3    15.0 1   238.0     1.50    11.40    99.00    99.00
10  1  4  4    15.0 1   259.0     2.60    11.50    99.00    99.00
10  1  4  5    15.0 1   291.0     2.60    11.50    99.00    99.00
10  1  4  6    15.0 1   332.0     2.60    11.30    99.00    99.00
10  1  4  7    15.0 1   346.0     2.60    11.00    99.00    99.00
10  1  4  8    15.0 1   328.0     2.10    10.80    99.00    99.00
10  1  4  9    15.0 1   306.0     1.50    10.80    99.00    99.00
10  1  4 10    15.0 1   317.0     2.60    12.90    99.00    99.00
10  1  4 11    15.0 1   317.0     1.50    14.60    99.00    99.00
10  1  4 12    15.0 1   323.0     1.50    16.10    99.00    99.00
10  1  4 13    15.0 1   335.0     1.50    17.30    99.00    99.00
10  1  4 14    15.0 1   322.0     1.00    17.90    99.00    99.00
10  1  4 15    15.0 1   321.0     1.50    18.10    99.00    99.00
10  1  4 16    15.0 1   330.0     1.50    18.10    99.00    99.00
10  1  4 17    15.0 1   353.0     1.00    17.40    99.00    99.00
10  1  4 18    15.0 1     0.0     0.00    16.30    99.00    99.00
10  1  4 19    15.0 1     0.0     0.00    15.10    99.00    99.00
10  1  4 20    15.0 1     0.0     0.00    14.00    99.00    99.00
10  1  4 21    15.0 1     0.0     0.00    13.10    99.00    99.00
10  1  4 22    15.0 1     0.0     0.00    12.30    99.00    99.00
10  1  4 23    15.0 1   302.0     0.50    11.60    99.00    99.00
10  1  4 24    15.0 1   298.0     1.00    11.10    99.00    99.00
10  1  5  1    15.0 1   295.0     1.50    10.90    99.00    99.00
10  1  5  2    15.0 1   294.0     1.50    10.50    99.00    99.00
10  1  5  3    15.0 1   287.0     2.10    10.10    99.00    99.00
10  1  5  4    15.0 1   290.0     2.10     9.80    99.00    99.00
10  1  5  5    15.0 1   292.0     2.60     9.50    99.00    99.00
10  1  5  6    15.0 1   285.0     2.60     9.10    99.00    99.00
10  1  5  7    15.0 1   282.0     2.60     8.80    99.00    99.00
10  1  5  8    15.0 1   285.0     2.60     8.50    99.00    99.00
10  1  5  9    15.0 1   299.0     2.60     9.10    99.00    99.00
10  1  5 10    15.0 1   308.0     2.10    10.60    99.00    99.00
10  1  5 11    15.0 1   308.0     1.50    12.00    99.00    99.00
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10  1   5 12     15.0 1   309.0      1.50     13.40     99.00     99.00
10  1   5 13     15.0 1   298.0      2.10     13.90     99.00     99.00
10  1   5 14     15.0 1   300.0      2.60     13.80     99.00     99.00
10  1   5 15     15.0 1   315.0      2.10     13.90     99.00     99.00
10  1   5 16     15.0 1   298.0      1.00     13.60     99.00     99.00
10  1   5 17     15.0 1     0.0      0.00     12.90     99.00     99.00
10  1   5 18     15.0 1   186.0      0.50     12.00     99.00     99.00
10  1   5 19     15.0 1   207.0      0.50     11.00     99.00     99.00
10  1   5 20     15.0 1     0.0      0.00     10.10     99.00     99.00
10  1   5 21     15.0 1     0.0      0.00      9.40     99.00     99.00
10  1   5 22     15.0 1     0.0      0.00      8.60     99.00     99.00
10  1   5 23     15.0 1     0.0      0.00      8.10     99.00     99.00
10  1   5 24     15.0 1     0.0      0.00      7.60     99.00     99.00
10  1   6  1     15.0 1     0.0      0.00      7.10     99.00     99.00
10  1   6  2     15.0 1     0.0      0.00      6.80     99.00     99.00
10  1   6  3     15.0 1     0.0      0.00      6.60     99.00     99.00
10  1   6  4     15.0 1     0.0      0.00      6.30     99.00     99.00
10  1   6  5     15.0 1   262.0      0.50      6.10     99.00     99.00
10  1   6  6     15.0 1   256.0      0.50      6.10     99.00     99.00
10  1   6  7     15.0 1   258.0      1.00      6.00     99.00     99.00
10  1   6  8     15.0 1   252.0      1.00      6.00     99.00     99.00
10  1   6  9     15.0 1   248.0      1.00      6.60     99.00     99.00
10  1   6 10     15.0 1   278.0      1.50      8.60     99.00     99.00
10  1   6 11     15.0 1   305.0      1.50     10.10     99.00     99.00
10  1   6 12     15.0 1   326.0      1.00     11.10     99.00     99.00
10  1   6 13     15.0 1   321.0      1.00     12.00     99.00     99.00
10  1   6 14     15.0 1   315.0      1.00     12.50     99.00     99.00
10  1   6 15     15.0 1   312.0      1.00     12.60     99.00     99.00
10  1   6 16     15.0 1   292.0      0.50     12.40     99.00     99.00
10  1   6 17     15.0 1     0.0      0.00     11.90     99.00     99.00
10  1   6 18     15.0 1     0.0      0.00     11.00     99.00     99.00
10  1   6 19     15.0 1     0.0      0.00     10.10     99.00     99.00
10  1   6 20     15.0 1     0.0      0.00      9.40     99.00     99.00
10  1   6 21     15.0 1     0.0      0.00      8.80     99.00     99.00
10  1   6 22     15.0 1     0.0      0.00      8.60     99.00     99.00
10  1   6 23     15.0 1     0.0      0.00      8.40     99.00     99.00
10  1   6 24     15.0 1     0.0      0.00      8.00     99.00     99.00
10  1   7  1     15.0 1     0.0      0.00      7.50     99.00     99.00
10  1   7  2     15.0 1   163.0      0.50      7.10     99.00     99.00
10  1   7  3     15.0 1   170.0      0.50      7.00     99.00     99.00
10  1   7  4     15.0 1   165.0      0.50      6.60     99.00     99.00
10  1   7  5     15.0 1   153.0      0.50      6.50     99.00     99.00
10  1   7  6     15.0 1   146.0      0.50      6.30     99.00     99.00
10  1   7  7     15.0 1   139.0      0.50      6.10     99.00     99.00
10  1   7  8     15.0 1   134.0      0.50      5.90     99.00     99.00
10  1   7  9     15.0 1     0.0      0.00      7.50     99.00     99.00
10  1   7 10     15.0 1   284.0      0.50     10.60     99.00     99.00
10  1   7 11     15.0 1   293.0      0.50     12.50     99.00     99.00
10  1   7 12     15.0 1   302.0      1.00     14.10     99.00     99.00
10  1   7 13     15.0 1   311.0      1.00     15.10     99.00     99.00
10  1   7 14     15.0 1   316.0      1.00     15.60     99.00     99.00
10  1   7 15     15.0 1   327.0      1.50     15.90     99.00     99.00
10  1   7 16     15.0 1   355.0      1.50     15.90     99.00     99.00
10  1   7 17     15.0 1    14.0      0.50     15.10     99.00     99.00
10  1   7 18     15.0 1     0.0      0.00     14.10     99.00     99.00
10  1   7 19     15.0 1     0.0      0.00     13.00     99.00     99.00
10  1   7 20     15.0 1     0.0      0.00     12.00     99.00     99.00
10  1   7 21     15.0 1     0.0      0.00     11.10     99.00     99.00
10  1   7 22     15.0 1     0.0      0.00     10.50     99.00     99.00
10  1   7 23     15.0 1     0.0      0.00     10.00     99.00     99.00
10  1   7 24     15.0 1     0.0      0.00      9.50     99.00     99.00
10  1   8  1     15.0 1   259.0      0.50      9.40     99.00     99.00
10  1   8  2     15.0 1   261.0      1.00      9.50     99.00     99.00
10  1   8  3     15.0 1   258.0      1.00      9.60     99.00     99.00
10  1   8  4     15.0 1   255.0      1.00      9.60     99.00     99.00
10  1   8  5     15.0 1   217.0      0.50      9.40     99.00     99.00
10  1   8  6     15.0 1   205.0      0.50      9.30     99.00     99.00
10  1   8  7     15.0 1   235.0      0.50      9.30     99.00     99.00
10  1   8  8     15.0 1   281.0      0.50      9.30     99.00     99.00
10  1   8  9     15.0 1   350.0      0.50      9.50     99.00     99.00
10  1   8 10     15.0 1    40.0      0.50     10.50     99.00     99.00
10  1   8 11     15.0 1   339.0      1.00     11.90     99.00     99.00
10  1   8 12     15.0 1   337.0      2.10     12.80     99.00     99.00
10  1   8 13     15.0 1   349.0      2.10     13.60     99.00     99.00
10  1   8 14     15.0 1   344.0      2.10     14.10     99.00     99.00
10  1   8 15     15.0 1   342.0      2.10     14.10     99.00     99.00
10  1   8 16     15.0 1   359.0      2.10     13.90     99.00     99.00
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10  1  8 17    15.0 1     8.0     2.10    13.40    99.00    99.00
10  1  8 18    15.0 1     0.0     0.00    12.80    99.00    99.00
10  1  8 19    15.0 1     3.0     0.50    12.30    99.00    99.00
10  1  8 20    15.0 1    72.0     0.50    12.00    99.00    99.00
10  1  8 21    15.0 1     0.0     0.00    11.90    99.00    99.00
10  1  8 22    15.0 1   288.0     0.50    11.50    99.00    99.00
10  1  8 23    15.0 1   310.0     0.50    11.00    99.00    99.00
10  1  8 24    15.0 1     0.0     0.00    10.50    99.00    99.00
10  1  9  1    15.0 1     0.0     0.00    10.00    99.00    99.00
10  1  9  2    15.0 1     0.0     0.00     9.60    99.00    99.00
10  1  9  3    15.0 1     0.0     0.00     9.10    99.00    99.00
10  1  9  4    15.0 1   334.0     0.50     9.00    99.00    99.00
10  1  9  5    15.0 1   306.0     1.00     8.90    99.00    99.00
10  1  9  6    15.0 1   299.0     1.00     8.80    99.00    99.00
10  1  9  7    15.0 1   313.0     0.50     8.60    99.00    99.00
10  1  9  8    15.0 1   304.0     0.50     8.60    99.00    99.00
10  1  9  9    15.0 1     0.0     0.00     9.10    99.00    99.00
10  1  9 10    15.0 1     0.0     0.00     9.90    99.00    99.00
10  1  9 11    15.0 1   311.0     1.50    11.40    99.00    99.00
10  1  9 12    15.0 1   327.0     1.50    11.80    99.00    99.00
10  1  9 13    15.0 1     4.0     1.50    11.90    99.00    99.00
10  1  9 14    15.0 1     5.0     1.50    11.90    99.00    99.00
10  1  9 15    15.0 1   270.0     0.50    11.60    99.00    99.00
10  1  9 16    15.0 1   233.0     0.50    11.50    99.00    99.00
10  1  9 17    15.0 1   241.0     0.50    11.30    99.00    99.00
10  1  9 18    15.0 1    64.0     0.50    11.30    99.00    99.00
10  1  9 19    15.0 1     0.0     0.00    11.10    99.00    99.00
10  1  9 20    15.0 1    51.0     0.50    11.00    99.00    99.00
10  1  9 21    15.0 1     0.0     0.00    10.60    99.00    99.00
10  1  9 22    15.0 1     0.0     0.00    10.40    99.00    99.00
10  1  9 23    15.0 1    14.0     1.00    10.10    99.00    99.00
10  1  9 24    15.0 1    25.0     3.10     9.90    99.00    99.00
10  1 10  1    15.0 1    21.0     3.10     9.60    99.00    99.00
10  1 10  2    15.0 1     0.0     0.00     9.00    99.00    99.00
10  1 10  3    15.0 1   340.0     2.10     8.00    99.00    99.00
10  1 10  4    15.0 1   325.0     2.10     8.10    99.00    99.00
10  1 10  5    15.0 1   308.0     1.50     8.40    99.00    99.00
10  1 10  6    15.0 1   315.0     1.00     8.30    99.00    99.00
10  1 10  7    15.0 1   314.0     0.50     8.30    99.00    99.00
10  1 10  8    15.0 1   294.0     0.50     8.50    99.00    99.00
10  1 10  9    15.0 1   286.0     1.00     8.80    99.00    99.00
10  1 10 10    15.0 1   302.0     1.00     9.30    99.00    99.00
10  1 10 11    15.0 1   311.0     1.00     9.80    99.00    99.00
10  1 10 12    15.0 1   343.0     1.00    10.60    99.00    99.00
10  1 10 13    15.0 1    35.0     1.00    12.50    99.00    99.00
10  1 10 14    15.0 1    26.0     0.50    14.40    99.00    99.00
10  1 10 15    15.0 1    16.0     1.00    15.50    99.00    99.00
10  1 10 16    15.0 1   338.0     2.10    18.50    99.00    99.00
10  1 10 17    15.0 1   348.0     2.10    17.80    99.00    99.00
10  1 10 18    15.0 1     0.0     0.00    16.60    99.00    99.00
10  1 10 19    15.0 1   183.0     0.50    15.40    99.00    99.00
10  1 10 20    15.0 1   189.0     0.50    14.10    99.00    99.00
10  1 10 21    15.0 1     0.0     0.00    13.40    99.00    99.00
10  1 10 22    15.0 1     0.0     0.00    12.60    99.00    99.00
10  1 10 23    15.0 1   328.0     0.50    11.90    99.00    99.00
10  1 10 24    15.0 1   321.0     1.00    11.40    99.00    99.00
10  1 11  1    15.0 1   310.0     1.50    11.10    99.00    99.00
10  1 11  2    15.0 1   304.0     1.50    10.80    99.00    99.00
10  1 11  3    15.0 1   293.0     2.10    10.40    99.00    99.00
10  1 11  4    15.0 1   284.0     2.10    10.00    99.00    99.00
10  1 11  5    15.0 1   273.0     2.10     9.60    99.00    99.00
10  1 11  6    15.0 1   264.0     1.50     9.40    99.00    99.00
10  1 11  7    15.0 1   252.0     1.00     9.10    99.00    99.00
10  1 11  8    15.0 1   221.0     0.50     8.60    99.00    99.00
10  1 11  9    15.0 1     0.0     0.00     9.40    99.00    99.00
10  1 11 10    15.0 1   305.0     0.50    12.00    99.00    99.00
10  1 11 11    15.0 1   317.0     0.50    13.40    99.00    99.00
10  1 11 12    15.0 1   340.0     1.00    14.90    99.00    99.00
10  1 11 13    15.0 1   355.0     1.50    15.80    99.00    99.00
10  1 11 14    15.0 1    14.0     2.10    16.10    99.00    99.00
10  1 11 15    15.0 1    17.0     2.60    16.10    99.00    99.00
10  1 11 16    15.0 1    41.0     2.60    15.50    99.00    99.00
10  1 11 17    15.0 1    53.0     2.60    15.00    99.00    99.00
10  1 11 18    15.0 1    56.0     2.10    14.60    99.00    99.00
10  1 11 19    15.0 1    79.0     0.50    14.10    99.00    99.00
10  1 11 20    15.0 1   204.0     0.50    14.00    99.00    99.00
10  1 11 21    15.0 1   186.0     1.00    14.10    99.00    99.00
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10  1 11 22    15.0 1   196.0     1.00    14.10    99.00    99.00
10  1 11 23    15.0 1   151.0     0.50    14.40    99.00    99.00
10  1 11 24    15.0 1   219.0     0.50    14.90    99.00    99.00
10  1 12  1    15.0 1     8.0     0.50    14.80    99.00    99.00
10  1 12  2    15.0 1    29.0     1.00    14.50    99.00    99.00
10  1 12  3    15.0 1    24.0     1.00    14.10    99.00    99.00
10  1 12  4    15.0 1     6.0     1.00    14.00    99.00    99.00
10  1 12  5    15.0 1    27.0     1.00    13.90    99.00    99.00
10  1 12  6    15.0 1    18.0     1.50    13.50    99.00    99.00
10  1 12  7    15.0 1    18.0     2.10    13.10    99.00    99.00
10  1 12  8    15.0 1     0.0     0.00    13.00    99.00    99.00
10  1 12  9    15.0 1     0.0     0.00    12.90    99.00    99.00
10  1 12 10    15.0 1     1.0     3.10    13.60    99.00    99.00
10  1 12 11    15.0 1   358.0     4.10    14.40    99.00    99.00
10  1 12 12    15.0 1     9.0     4.10    14.40    99.00    99.00
10  1 12 13    15.0 1    18.0     3.60    14.50    99.00    99.00
10  1 12 14    15.0 1    28.0     2.60    14.40    99.00    99.00
10  1 12 15    15.0 1    31.0     1.50    14.40    99.00    99.00
10  1 12 16    15.0 1    29.0     1.00    14.40    99.00    99.00
10  1 12 17    15.0 1     0.0     0.00    14.10    99.00    99.00
10  1 12 18    15.0 1   229.0     0.50    14.00    99.00    99.00
10  1 12 19    15.0 1   242.0     1.50    13.60    99.00    99.00
10  1 12 20    15.0 1   255.0     1.50    13.40    99.00    99.00
10  1 12 21    15.0 1   266.0     1.00    13.30    99.00    99.00
10  1 12 22    15.0 1   307.0     0.50    13.10    99.00    99.00
10  1 12 23    15.0 1     5.0     0.50    13.10    99.00    99.00
10  1 12 24    15.0 1     0.0     0.00    13.30    99.00    99.00
10  1 13  1    15.0 1    19.0     1.50    13.30    99.00    99.00
10  1 13  2    15.0 1    48.0     3.10    13.00    99.00    99.00
10  1 13  3    15.0 1    63.0     3.10    12.60    99.00    99.00
10  1 13  4    15.0 1    49.0     1.50    12.80    99.00    99.00
10  1 13  5    15.0 1   344.0     0.50    13.10    99.00    99.00
10  1 13  6    15.0 1   330.0     0.50    13.10    99.00    99.00
10  1 13  7    15.0 1   317.0     0.50    12.60    99.00    99.00
10  1 13  8    15.0 1   293.0     1.50    11.90    99.00    99.00
10  1 13  9    15.0 1   291.0     5.70    12.90    99.00    99.00
10  1 13 10    15.0 1   313.0     6.70    14.80    99.00    99.00
10  1 13 11    15.0 1   322.0     5.70    15.60    99.00    99.00
10  1 13 12    15.0 1   321.0     5.70    16.10    99.00    99.00
10  1 13 13    15.0 1   330.0     5.70    16.40    99.00    99.00
10  1 13 14    15.0 1   337.0     6.20    16.40    99.00    99.00
10  1 13 15    15.0 1   341.0     6.20    16.10    99.00    99.00
10  1 13 16    15.0 1   336.0     4.10    15.60    99.00    99.00
10  1 13 17    15.0 1   337.0     4.60    14.10    99.00    99.00
10  1 13 18    15.0 1   334.0     4.10    13.00    99.00    99.00
10  1 13 19    15.0 1   320.0     3.60    12.10    99.00    99.00
10  1 13 20    15.0 1   316.0     3.10    11.50    99.00    99.00
10  1 13 21    15.0 1   328.0     2.10    11.00    99.00    99.00
10  1 13 22    15.0 1   341.0     0.50    10.50    99.00    99.00
10  1 13 23    15.0 1     0.0     0.00    10.10    99.00    99.00
10  1 13 24    15.0 1   168.0     0.50     9.50    99.00    99.00
10  1 14  1    15.0 1   184.0     0.50     8.90    99.00    99.00
10  1 14  2    15.0 1   193.0     0.50     8.50    99.00    99.00
10  1 14  3    15.0 1   228.0     0.50     8.00    99.00    99.00
10  1 14  4    15.0 1   250.0     0.50     7.60    99.00    99.00
10  1 14  5    15.0 1   262.0     1.50     7.40    99.00    99.00
10  1 14  6    15.0 1   266.0     2.10     7.10    99.00    99.00
10  1 14  7    15.0 1   272.0     1.50     5.90    99.00    99.00
10  1 14  8    15.0 1   294.0     1.00     5.30    99.00    99.00
10  1 14  9    15.0 1   320.0     1.50     6.10    99.00    99.00
10  1 14 10    15.0 1   330.0     1.50     6.90    99.00    99.00
10  1 14 11    15.0 1   348.0     1.00     7.60    99.00    99.00
10  1 14 12    15.0 1    37.0     0.50     9.10    99.00    99.00
10  1 14 13    15.0 1     0.0     0.00    11.00    99.00    99.00
10  1 14 14    15.0 1     1.0     0.50    12.10    99.00    99.00
10  1 14 15    15.0 1    17.0     1.00    12.80    99.00    99.00
10  1 14 16    15.0 1    36.0     1.00    12.60    99.00    99.00
10  1 14 17    15.0 1    62.0     1.50    12.00    99.00    99.00
10  1 14 18    15.0 1    76.0     1.50    11.10    99.00    99.00
10  1 14 19    15.0 1   115.0     1.00    10.40    99.00    99.00
10  1 14 20    15.0 1   113.0     0.50     9.90    99.00    99.00
10  1 14 21    15.0 1    86.0     0.50     9.50    99.00    99.00
10  1 14 22    15.0 1    67.0     0.50     9.10    99.00    99.00
10  1 14 23    15.0 1    47.0     0.50     8.80    99.00    99.00
10  1 14 24    15.0 1     0.0     0.00     8.40    99.00    99.00
10  1 15  1    15.0 1     0.0     0.00     8.10    99.00    99.00
10  1 15  2    15.0 1   352.0     0.50     8.10    99.00    99.00
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```
10  1 15  3    15.0 1     0.0     0.00     8.00    99.00    99.00
10  1 15  4    15.0 1   350.0     1.00     7.90    99.00    99.00
10  1 15  5    15.0 1   325.0     1.00     7.80    99.00    99.00
10  1 15  6    15.0 1   330.0     1.00     7.80    99.00    99.00
10  1 15  7    15.0 1   309.0     0.50     7.80    99.00    99.00
10  1 15  8    15.0 1   292.0     1.00     7.60    99.00    99.00
10  1 15  9    15.0 1   307.0     1.50     7.90    99.00    99.00
10  1 15 10    15.0 1   317.0     2.10     9.40    99.00    99.00
10  1 15 11    15.0 1   332.0     1.50    10.40    99.00    99.00
10  1 15 12    15.0 1   350.0     1.50    11.50    99.00    99.00
10  1 15 13    15.0 1     4.0     1.50    12.30    99.00    99.00
10  1 15 14    15.0 1     0.0     0.00    12.60    99.00    99.00
10  1 15 15    15.0 1    13.0     1.50    12.60    99.00    99.00
10  1 15 16    15.0 1    16.0     1.50    12.90    99.00    99.00
10  1 15 17    15.0 1    43.0     1.00    12.60    99.00    99.00
10  1 15 18    15.0 1     0.0     0.00    12.10    99.00    99.00
10  1 15 19    15.0 1     0.0     0.00    11.60    99.00    99.00
10  1 15 20    15.0 1     0.0     0.00    11.50    99.00    99.00
10  1 15 21    15.0 1     0.0     0.00    11.40    99.00    99.00
10  1 15 22    15.0 1   343.0     0.50    11.30    99.00    99.00
10  1 15 23    15.0 1     9.0     1.00    11.10    99.00    99.00
10  1 15 24    15.0 1    10.0     2.10    11.00    99.00    99.00
10  1 16  1    15.0 1     6.0     2.10    10.90    99.00    99.00
10  1 16  2    15.0 1   349.0     1.50    10.80    99.00    99.00
10  1 16  3    15.0 1   337.0     1.50    10.80    99.00    99.00
10  1 16  4    15.0 1   329.0     1.50    10.80    99.00    99.00
10  1 16  5    15.0 1     0.0     0.00    10.80    99.00    99.00
10  1 16  6    15.0 1    12.0     2.60    10.90    99.00    99.00
10  1 16  7    15.0 1    22.0     2.10    11.00    99.00    99.00
10  1 16  8    15.0 1     8.0     1.00    11.00    99.00    99.00
10  1 16  9    15.0 1   352.0     0.50    11.00    99.00    99.00
10  1 16 10    15.0 1   337.0     1.50    12.10    99.00    99.00
10  1 16 11    15.0 1   341.0     1.50    14.60    99.00    99.00
10  1 16 12    15.0 1   352.0     1.50    15.80    99.00    99.00
10  1 16 13    15.0 1     0.0     0.00    16.60    99.00    99.00
10  1 16 14    15.0 1     0.0     0.00    17.40    99.00    99.00
10  1 16 15    15.0 1    11.0     2.10    17.80    99.00    99.00
10  1 16 16    15.0 1    15.0     2.10    17.60    99.00    99.00
10  1 16 17    15.0 1     6.0     2.10    17.10    99.00    99.00
10  1 16 18    15.0 1    21.0     1.50    16.30    99.00    99.00
10  1 16 19    15.0 1     0.0     0.00    15.30    99.00    99.00
10  1 16 20    15.0 1   270.0     1.00    14.10    99.00    99.00
10  1 16 21    15.0 1   286.0     1.00    13.10    99.00    99.00
10  1 16 22    15.0 1   316.0     1.50    12.50    99.00    99.00
10  1 16 23    15.0 1   319.0     2.60    11.80    99.00    99.00
10  1 16 24    15.0 1   332.0     2.60    11.10    99.00    99.00
10  1 17  1    15.0 1   357.0     2.60    10.60    99.00    99.00
10  1 17  2    15.0 1    28.0     2.60    10.10    99.00    99.00
10  1 17  3    15.0 1    49.0     2.10     9.80    99.00    99.00
10  1 17  4    15.0 1    94.0     0.50     9.60    99.00    99.00
10  1 17  5    15.0 1   143.0     1.50     9.10    99.00    99.00
10  1 17  6    15.0 1   157.0     2.10     9.00    99.00    99.00
10  1 17  7    15.0 1   160.0     2.10     9.10    99.00    99.00
10  1 17  8    15.0 1   141.0     2.10     9.10    99.00    99.00
10  1 17  9    15.0 1   124.0     1.50     9.60    99.00    99.00
10  1 17 10    15.0 1   162.0     0.50    11.60    99.00    99.00
10  1 17 11    15.0 1     0.0     0.00    12.80    99.00    99.00
10  1 17 12    15.0 1   285.0     0.50    13.80    99.00    99.00
10  1 17 13    15.0 1   276.0     0.50    14.50    99.00    99.00
10  1 17 14    15.0 1   308.0     0.50    14.90    99.00    99.00
10  1 17 15    15.0 1     0.0     0.00    14.80    99.00    99.00
10  1 17 16    15.0 1   112.0     0.50    13.80    99.00    99.00
10  1 17 17    15.0 1    98.0     2.10    12.80    99.00    99.00
10  1 17 18    15.0 1   119.0     3.10    12.10    99.00    99.00
10  1 17 19    15.0 1   139.0     3.60    11.60    99.00    99.00
10  1 17 20    15.0 1   147.0     4.10    11.30    99.00    99.00
10  1 17 21    15.0 1   138.0     4.10    11.10    99.00    99.00
10  1 17 22    15.0 1   138.0     3.60    11.30    99.00    99.00
10  1 17 23    15.0 1   141.0     3.10    11.40    99.00    99.00
10  1 17 24    15.0 1   139.0     3.10    11.50    99.00    99.00
10  1 18  1    15.0 1   130.0     3.10    11.60    99.00    99.00
10  1 18  2    15.0 1   129.0     3.10    11.60    99.00    99.00
10  1 18  3    15.0 1   119.0     3.60    11.80    99.00    99.00
10  1 18  4    15.0 1   123.0     3.60    11.80    99.00    99.00
10  1 18  5    15.0 1   115.0     4.10    11.90    99.00    99.00
10  1 18  6    15.0 1   122.0     4.10    12.00    99.00    99.00
10  1 18  7    15.0 1   119.0     4.60    12.00    99.00    99.00
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10  1 18  8    15.0 1   118.0     4.60    12.10    99.00    99.00
10  1 18  9    15.0 1   123.0     5.10    12.80    99.00    99.00
10  1 18 10    15.0 1   132.0     5.10    13.60    99.00    99.00
10  1 18 11    15.0 1   127.0     5.10    14.60    99.00    99.00
10  1 18 12    15.0 1   127.0     5.10    15.60    99.00    99.00
10  1 18 13    15.0 1   131.0     5.70    15.90    99.00    99.00
10  1 18 14    15.0 1   135.0     5.10    15.60    99.00    99.00
10  1 18 15    15.0 1   141.0     4.60    15.40    99.00    99.00
10  1 18 16    15.0 1   195.0     4.60    15.30    99.00    99.00
10  1 18 17    15.0 1   229.0     6.20    14.00    99.00    99.00
10  1 18 18    15.0 1   219.0     4.60    13.40    99.00    99.00
10  1 18 19    15.0 1   175.0     3.60    13.40    99.00    99.00
10  1 18 20    15.0 1   160.0     4.10    13.00    99.00    99.00
10  1 18 21    15.0 1   149.0     4.10    12.50    99.00    99.00
10  1 18 22    15.0 1   151.0     4.10    12.10    99.00    99.00
10  1 18 23    15.0 1   153.0     4.60    11.60    99.00    99.00
10  1 18 24    15.0 1   146.0     5.10    11.10    99.00    99.00
10  1 19  1    15.0 1   157.0     5.10    10.80    99.00    99.00
10  1 19  2    15.0 1   157.0     4.60    10.40    99.00    99.00
10  1 19  3    15.0 1   145.0     4.60    10.10    99.00    99.00
10  1 19  4    15.0 1   116.0     5.10    10.40    99.00    99.00
10  1 19  5    15.0 1   123.0     5.10    10.50    99.00    99.00
10  1 19  6    15.0 1   128.0     4.60    10.60    99.00    99.00
10  1 19  7    15.0 1   132.0     4.60    11.00    99.00    99.00
10  1 19  8    15.0 1   122.0     5.10    10.80    99.00    99.00
10  1 19  9    15.0 1   107.0     6.20    11.00    99.00    99.00
10  1 19 10    15.0 1   121.0     6.20    11.80    99.00    99.00
10  1 19 11    15.0 1   124.0     7.20    12.60    99.00    99.00
10  1 19 12    15.0 1   119.0     5.70    14.00    99.00    99.00
10  1 19 13    15.0 1   140.0     4.10    15.30    99.00    99.00
10  1 19 14    15.0 1   170.0     3.60    15.80    99.00    99.00
10  1 19 15    15.0 1   211.0     3.60    15.40    99.00    99.00
10  1 19 16    15.0 1   233.0     4.60    14.30    99.00    99.00
10  1 19 17    15.0 1   234.0     4.60    13.40    99.00    99.00
10  1 19 18    15.0 1   218.0     4.10    13.10    99.00    99.00
10  1 19 19    15.0 1   210.0     3.10    12.90    99.00    99.00
10  1 19 20    15.0 1   204.0     3.10    12.40    99.00    99.00
10  1 19 21    15.0 1   207.0     3.10    11.60    99.00    99.00
10  1 19 22    15.0 1   221.0     2.60    11.10    99.00    99.00
10  1 19 23    15.0 1   168.0     1.50    10.60    99.00    99.00
10  1 19 24    15.0 1   106.0     3.60    10.10    99.00    99.00
10  1 20  1    15.0 1    99.0     4.60     9.60    99.00    99.00
10  1 20  2    15.0 1   113.0     5.10     9.80    99.00    99.00
10  1 20  3    15.0 1   107.0     4.60    10.10    99.00    99.00
10  1 20  4    15.0 1   124.0     5.10    10.50    99.00    99.00
10  1 20  5    15.0 1   117.0     5.10    10.60    99.00    99.00
10  1 20  6    15.0 1   123.0     5.70    10.50    99.00    99.00
10  1 20  7    15.0 1   115.0     7.20    10.40    99.00    99.00
10  1 20  8    15.0 1   118.0     8.20    10.60    99.00    99.00
10  1 20  9    15.0 1   120.0     8.70    11.30    99.00    99.00
10  1 20 10    15.0 1   135.0     7.70    12.10    99.00    99.00
10  1 20 11    15.0 1   128.0     6.20    13.10    99.00    99.00
10  1 20 12    15.0 1   136.0     6.20    14.00    99.00    99.00
10  1 20 13    15.0 1   143.0     6.20    14.60    99.00    99.00
10  1 20 14    15.0 1   150.0     5.70    15.00    99.00    99.00
10  1 20 15    15.0 1   182.0     5.70    15.00    99.00    99.00
10  1 20 16    15.0 1   193.0     5.10    13.40    99.00    99.00
10  1 20 17    15.0 1   211.0     4.60    12.90    99.00    99.00
10  1 20 18    15.0 1   219.0     4.10    12.50    99.00    99.00
10  1 20 19    15.0 1   207.0     4.60    12.10    99.00    99.00
10  1 20 20    15.0 1   215.0     4.60    11.80    99.00    99.00
10  1 20 21    15.0 1   199.0     4.10    11.60    99.00    99.00
10  1 20 22    15.0 1   174.0     2.60    11.60    99.00    99.00
10  1 20 23    15.0 1    99.0     3.10    11.60    99.00    99.00
10  1 20 24    15.0 1    88.0     3.60    11.10    99.00    99.00
10  1 21  1    15.0 1    79.0     3.60    10.60    99.00    99.00
10  1 21  2    15.0 1    70.0     3.60    10.50    99.00    99.00
10  1 21  3    15.0 1    59.0     4.10    10.60    99.00    99.00
10  1 21  4    15.0 1    60.0     3.10    10.60    99.00    99.00
10  1 21  5    15.0 1    57.0     1.00    10.60    99.00    99.00
10  1 21  6    15.0 1   171.0     1.50    10.40    99.00    99.00
10  1 21  7    15.0 1   189.0     2.10    10.00    99.00    99.00
10  1 21  8    15.0 1   327.0     0.50     9.90    99.00    99.00
10  1 21  9    15.0 1    15.0     0.50    10.10    99.00    99.00
10  1 21 10    15.0 1   160.0     0.50    11.00    99.00    99.00
10  1 21 11    15.0 1   192.0     0.50    12.00    99.00    99.00
10  1 21 12    15.0 1   155.0     1.00    13.30    99.00    99.00
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10  1 21 13    15.0 1    99.0     0.50    14.00    99.00    99.00
10  1 21 14    15.0 1   146.0     0.50    14.30    99.00    99.00
10  1 21 15    15.0 1   290.0     4.10    13.50    99.00    99.00
10  1 21 16    15.0 1   308.0     4.10    11.30    99.00    99.00
10  1 21 17    15.0 1   278.0     1.50    10.50    99.00    99.00
10  1 21 18    15.0 1   114.0     2.10    10.10    99.00    99.00
10  1 21 19    15.0 1   136.0     2.10    10.30    99.00    99.00
10  1 21 20    15.0 1   169.0     1.50    10.40    99.00    99.00
10  1 21 21    15.0 1   206.0     1.50    10.10    99.00    99.00
10  1 21 22    15.0 1   217.0     2.10     9.80    99.00    99.00
10  1 21 23    15.0 1   208.0     2.10     9.80    99.00    99.00
10  1 21 24    15.0 1   229.0     2.60     9.80    99.00    99.00
10  1 22  1    15.0 1   252.0     2.60     9.60    99.00    99.00
10  1 22  2    15.0 1   271.0     1.50     9.40    99.00    99.00
10  1 22  3    15.0 1   300.0     1.00     9.30    99.00    99.00
10  1 22  4    15.0 1    84.0     1.00     9.10    99.00    99.00
10  1 22  5    15.0 1   115.0     2.10     9.10    99.00    99.00
10  1 22  6    15.0 1   112.0     2.60     9.00    99.00    99.00
10  1 22  7    15.0 1   107.0     3.60     8.80    99.00    99.00
10  1 22  8    15.0 1   122.0     3.60     8.60    99.00    99.00
10  1 22  9    15.0 1   118.0     3.10     8.90    99.00    99.00
10  1 22 10    15.0 1   124.0     2.60     9.90    99.00    99.00
10  1 22 11    15.0 1   128.0     2.60    11.10    99.00    99.00
10  1 22 12    15.0 1   123.0     1.00    11.60    99.00    99.00
10  1 22 13    15.0 1   157.0     0.50    12.10    99.00    99.00
10  1 22 14    15.0 1     0.0     0.00    12.60    99.00    99.00
10  1 22 15    15.0 1   275.0     0.50    12.60    99.00    99.00
10  1 22 16    15.0 1   274.0     3.10    11.80    99.00    99.00
10  1 22 17    15.0 1   199.0     1.50    10.10    99.00    99.00
10  1 22 18    15.0 1   146.0     2.10    10.00    99.00    99.00
10  1 22 19    15.0 1   165.0     2.60     9.80    99.00    99.00
10  1 22 20    15.0 1   187.0     2.60     9.30    99.00    99.00
10  1 22 21    15.0 1   230.0     3.10     8.30    99.00    99.00
10  1 22 22    15.0 1   255.0     3.60     7.30    99.00    99.00
10  1 22 23    15.0 1   261.0     4.60     6.50    99.00    99.00
10  1 22 24    15.0 1   283.0     5.10     6.00    99.00    99.00
10  1 23  1    15.0 1   290.0     5.10     5.60    99.00    99.00
10  1 23  2    15.0 1   297.0     4.60     5.10    99.00    99.00
10  1 23  3    15.0 1   310.0     4.10     4.60    99.00    99.00
10  1 23  4    15.0 1   330.0     3.60     4.40    99.00    99.00
10  1 23  5    15.0 1   319.0     2.60     4.80    99.00    99.00
10  1 23  6    15.0 1   291.0     2.60     4.90    99.00    99.00
10  1 23  7    15.0 1   289.0     2.60     4.60    99.00    99.00
10  1 23  8    15.0 1   277.0     1.50     4.30    99.00    99.00
10  1 23  9    15.0 1   325.0     1.00     5.40    99.00    99.00
10  1 23 10    15.0 1   329.0     0.50     7.30    99.00    99.00
10  1 23 11    15.0 1     0.0     0.00     8.60    99.00    99.00
10  1 23 12    15.0 1     0.0     0.00     9.50    99.00    99.00
10  1 23 13    15.0 1   300.0     0.50    10.10    99.00    99.00
10  1 23 14    15.0 1   299.0     0.50    10.60    99.00    99.00
10  1 23 15    15.0 1   300.0     1.50    10.90    99.00    99.00
10  1 23 16    15.0 1   313.0     2.10    10.80    99.00    99.00
10  1 23 17    15.0 1   322.0     2.10    10.40    99.00    99.00
10  1 23 18    15.0 1   345.0     2.60     9.50    99.00    99.00
10  1 23 19    15.0 1    14.0     2.10     8.60    99.00    99.00
10  1 23 20    15.0 1    41.0     1.00     7.60    99.00    99.00
10  1 23 21    15.0 1    77.0     0.50     6.60    99.00    99.00
10  1 23 22    15.0 1    97.0     0.50     5.80    99.00    99.00
10  1 23 23    15.0 1    97.0     0.50     5.00    99.00    99.00
10  1 23 24    15.0 1     0.0     0.00     4.30    99.00    99.00
10  1 24  1    15.0 1     0.0     0.00     3.60    99.00    99.00
10  1 24  2    15.0 1     0.0     0.00     3.10    99.00    99.00
10  1 24  3    15.0 1     0.0     0.00     2.60    99.00    99.00
10  1 24  4    15.0 1     0.0     0.00     2.30    99.00    99.00
10  1 24  5    15.0 1     0.0     0.00     1.90    99.00    99.00
10  1 24  6    15.0 1     0.0     0.00     1.60    99.00    99.00
10  1 24  7    15.0 1     0.0     0.00     1.30    99.00    99.00
10  1 24  8    15.0 1     0.0     0.00     0.90    99.00    99.00
10  1 24  9    15.0 1     0.0     0.00     3.00    99.00    99.00
10  1 24 10    15.0 1     0.0     0.00     6.10    99.00    99.00
10  1 24 11    15.0 1     0.0     0.00     8.30    99.00    99.00
10  1 24 12    15.0 1   328.0     0.50     9.60    99.00    99.00
10  1 24 13    15.0 1   339.0     0.50    10.80    99.00    99.00
10  1 24 14    15.0 1   337.0     1.00    11.40    99.00    99.00
10  1 24 15    15.0 1   343.0     1.50    11.60    99.00    99.00
10  1 24 16    15.0 1   348.0     1.50    11.30    99.00    99.00
10  1 24 17    15.0 1     8.0     1.50    10.80    99.00    99.00
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```
10  1 24 18    15.0 1    12.0     1.00    10.40    99.00    99.00
10  1 24 19    15.0 1     0.0     0.00    10.00    99.00    99.00
10  1 24 20    15.0 1     0.0     0.00     9.50    99.00    99.00
10  1 24 21    15.0 1     0.0     0.00     9.10    99.00    99.00
10  1 24 22    15.0 1     0.0     0.00     8.90    99.00    99.00
10  1 24 23    15.0 1     0.0     0.00     8.60    99.00    99.00
10  1 24 24    15.0 1     0.0     0.00     8.40    99.00    99.00
10  1 25  1    15.0 1     0.0     0.00     8.10    99.00    99.00
10  1 25  2    15.0 1     0.0     0.00     7.80    99.00    99.00
10  1 25  3    15.0 1    64.0     0.50     7.40    99.00    99.00
10  1 25  4    15.0 1    55.0     0.50     6.90    99.00    99.00
10  1 25  5    15.0 1     0.0     0.00     6.60    99.00    99.00
10  1 25  6    15.0 1     0.0     0.00     6.30    99.00    99.00
10  1 25  7    15.0 1     0.0     0.00     6.10    99.00    99.00
10  1 25  8    15.0 1     0.0     0.00     6.30    99.00    99.00
10  1 25  9    15.0 1     0.0     0.00     6.50    99.00    99.00
10  1 25 10    15.0 1     0.0     0.00     6.60    99.00    99.00
10  1 25 11    15.0 1    61.0     1.50     7.10    99.00    99.00
10  1 25 12    15.0 1    48.0     2.10     8.30    99.00    99.00
10  1 25 13    15.0 1    33.0     1.00     9.10    99.00    99.00
10  1 25 14    15.0 1   302.0     0.50     9.10    99.00    99.00
10  1 25 15    15.0 1   312.0     1.50     8.80    99.00    99.00
10  1 25 16    15.0 1    60.0     1.00     9.60    99.00    99.00
10  1 25 17    15.0 1    56.0     2.10     9.40    99.00    99.00
10  1 25 18    15.0 1    71.0     2.60     9.40    99.00    99.00
10  1 25 19    15.0 1    81.0     2.60     9.60    99.00    99.00
10  1 25 20    15.0 1    80.0     1.00    10.00    99.00    99.00
10  1 25 21    15.0 1   148.0     0.50    10.30    99.00    99.00
10  1 25 22    15.0 1   180.0     0.50    10.40    99.00    99.00
10  1 25 23    15.0 1   137.0     0.50    10.60    99.00    99.00
10  1 25 24    15.0 1   120.0     1.00    10.60    99.00    99.00
10  1 26  1    15.0 1   122.0     1.00    10.90    99.00    99.00
10  1 26  2    15.0 1   115.0     1.00    11.10    99.00    99.00
10  1 26  3    15.0 1    88.0     1.50    11.40    99.00    99.00
10  1 26  4    15.0 1    78.0     1.50    11.50    99.00    99.00
10  1 26  5    15.0 1    94.0     1.00    11.50    99.00    99.00
10  1 26  6    15.0 1   106.0     1.00    11.60    99.00    99.00
10  1 26  7    15.0 1   153.0     0.50    11.60    99.00    99.00
10  1 26  8    15.0 1     0.0     0.00    11.60    99.00    99.00
10  1 26  9    15.0 1    33.0     0.50    11.80    99.00    99.00
10  1 26 10    15.0 1   144.0     0.50    12.90    99.00    99.00
10  1 26 11    15.0 1   202.0     1.50    12.60    99.00    99.00
10  1 26 12    15.0 1     0.0     0.00    12.50    99.00    99.00
10  1 26 13    15.0 1   316.0     1.50    12.60    99.00    99.00
10  1 26 14    15.0 1   322.0     2.60    12.60    99.00    99.00
10  1 26 15    15.0 1   326.0     3.60    12.30    99.00    99.00
10  1 26 16    15.0 1   340.0     3.10    12.10    99.00    99.00
10  1 26 17    15.0 1    15.0     3.10    12.10    99.00    99.00
10  1 26 18    15.0 1    31.0     3.10    12.10    99.00    99.00
10  1 26 19    15.0 1    54.0     3.60    12.10    99.00    99.00
10  1 26 20    15.0 1    58.0     4.10    12.00    99.00    99.00
10  1 26 21    15.0 1    86.0     3.60    12.10    99.00    99.00
10  1 26 22    15.0 1   136.0     1.50    12.30    99.00    99.00
10  1 26 23    15.0 1   354.0     1.50    12.00    99.00    99.00
10  1 26 24    15.0 1   218.0     2.10    12.00    99.00    99.00
10  1 27  1    15.0 1   311.0     1.00    11.60    99.00    99.00
10  1 27  2    15.0 1    52.0     2.10    10.60    99.00    99.00
10  1 27  3    15.0 1    41.0     3.60     9.60    99.00    99.00
10  1 27  4    15.0 1     0.0     0.00     9.60    99.00    99.00
10  1 27  5    15.0 1   338.0     4.10     9.40    99.00    99.00
10  1 27  6    15.0 1   311.0     3.60     8.60    99.00    99.00
10  1 27  7    15.0 1   307.0     3.60     8.30    99.00    99.00
10  1 27  8    15.0 1   320.0     3.60     8.30    99.00    99.00
10  1 27  9    15.0 1   331.0     4.60     9.10    99.00    99.00
10  1 27 10    15.0 1   332.0     4.10     9.50    99.00    99.00
10  1 27 11    15.0 1   323.0     2.60    10.60    99.00    99.00
10  1 27 12    15.0 1   310.0     1.50    11.80    99.00    99.00
10  1 27 13    15.0 1   296.0     1.00    12.60    99.00    99.00
10  1 27 14    15.0 1   297.0     1.00    13.50    99.00    99.00
10  1 27 15    15.0 1   314.0     1.00    13.80    99.00    99.00
10  1 27 16    15.0 1   316.0     1.50    13.80    99.00    99.00
10  1 27 17    15.0 1   328.0     1.50    13.30    99.00    99.00
10  1 27 18    15.0 1   341.0     1.00    12.30    99.00    99.00
10  1 27 19    15.0 1   156.0     0.50    11.00    99.00    99.00
10  1 27 20    15.0 1   156.0     2.10     9.60    99.00    99.00
10  1 27 21    15.0 1   158.0     2.60     8.80    99.00    99.00
10  1 27 22    15.0 1   151.0     2.10     8.10    99.00    99.00
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10  1 27 23    15.0 1   156.0     1.50     7.60    99.00    99.00
10  1 27 24    15.0 1   186.0     1.00     7.10    99.00    99.00
10  1 28  1    15.0 1   247.0     1.00     6.80    99.00    99.00
10  1 28  2    15.0 1   270.0     2.10     6.40    99.00    99.00
10  1 28  3    15.0 1   267.0     2.60     6.00    99.00    99.00
10  1 28  4    15.0 1   284.0     2.60     5.60    99.00    99.00
10  1 28  5    15.0 1   272.0     2.60     5.30    99.00    99.00
10  1 28  6    15.0 1   257.0     2.60     4.90    99.00    99.00
10  1 28  7    15.0 1   256.0     2.60     4.60    99.00    99.00
10  1 28  8    15.0 1   259.0     3.10     4.60    99.00    99.00
10  1 28  9    15.0 1   289.0     2.60     6.50    99.00    99.00
10  1 28 10    15.0 1   284.0     2.10     8.10    99.00    99.00
10  1 28 11    15.0 1   274.0     2.10     9.90    99.00    99.00
10  1 28 12    15.0 1   286.0     2.10    11.10    99.00    99.00
10  1 28 13    15.0 1   298.0     2.10    12.30    99.00    99.00
10  1 28 14    15.0 1   315.0     2.10    13.10    99.00    99.00
10  1 28 15    15.0 1   321.0     2.10    13.40    99.00    99.00
10  1 28 16    15.0 1   332.0     2.60    13.30    99.00    99.00
10  1 28 17    15.0 1   341.0     2.60    12.60    99.00    99.00
10  1 28 18    15.0 1   338.0     2.10    11.60    99.00    99.00
10  1 28 19    15.0 1   338.0     1.00    10.60    99.00    99.00
10  1 28 20    15.0 1     0.0     0.00     9.60    99.00    99.00
10  1 28 21    15.0 1     0.0     0.00     8.80    99.00    99.00
10  1 28 22    15.0 1     0.0     0.00     8.40    99.00    99.00
10  1 28 23    15.0 1     0.0     0.00     8.10    99.00    99.00
10  1 28 24    15.0 1     0.0     0.00     8.00    99.00    99.00
10  1 29  1    15.0 1     0.0     0.00     7.80    99.00    99.00
10  1 29  2    15.0 1   282.0     0.50     7.60    99.00    99.00
10  1 29  3    15.0 1   285.0     1.00     7.60    99.00    99.00
10  1 29  4    15.0 1   291.0     1.50     7.50    99.00    99.00
10  1 29  5    15.0 1   298.0     1.00     7.30    99.00    99.00
10  1 29  6    15.0 1   294.0     1.00     7.10    99.00    99.00
10  1 29  7    15.0 1   293.0     1.00     7.00    99.00    99.00
10  1 29  8    15.0 1     0.0     0.00     6.80    99.00    99.00
10  1 29  9    15.0 1     0.0     0.00     7.00    99.00    99.00
10  1 29 10    15.0 1     0.0     0.00     7.80    99.00    99.00
10  1 29 11    15.0 1   343.0     0.50     8.90    99.00    99.00
10  1 29 12    15.0 1    20.0     1.00     9.80    99.00    99.00
10  1 29 13    15.0 1    93.0     0.50     9.80    99.00    99.00
10  1 29 14    15.0 1    81.0     1.50     9.50    99.00    99.00
10  1 29 15    15.0 1   135.0     2.10     9.60    99.00    99.00
10  1 29 16    15.0 1   174.0     2.60     9.50    99.00    99.00
10  1 29 17    15.0 1   170.0     2.60     9.00    99.00    99.00
10  1 29 18    15.0 1   167.0     2.60     8.80    99.00    99.00
10  1 29 19    15.0 1   173.0     2.10     8.60    99.00    99.00
10  1 29 20    15.0 1   177.0     1.50     8.60    99.00    99.00
10  1 29 21    15.0 1   169.0     0.50     8.50    99.00    99.00
10  1 29 22    15.0 1    32.0     0.50     8.40    99.00    99.00
10  1 29 23    15.0 1    24.0     1.50     8.50    99.00    99.00
10  1 29 24    15.0 1    18.0     2.60     8.50    99.00    99.00
10  1 30  1    15.0 1    25.0     2.60     8.40    99.00    99.00
10  1 30  2    15.0 1    12.0     2.10     8.10    99.00    99.00
10  1 30  3    15.0 1   317.0     1.50     7.90    99.00    99.00
10  1 30  4    15.0 1   283.0     1.50     6.90    99.00    99.00
10  1 30  5    15.0 1   260.0     1.00     5.10    99.00    99.00
10  1 30  6    15.0 1   258.0     1.00     5.10    99.00    99.00
10  1 30  7    15.0 1   272.0     1.50     6.00    99.00    99.00
10  1 30  8    15.0 1   295.0     2.10     6.10    99.00    99.00
10  1 30  9    15.0 1   307.0     1.50     6.00    99.00    99.00
10  1 30 10    15.0 1   322.0     1.00     6.30    99.00    99.00
10  1 30 11    15.0 1   352.0     0.50     7.00    99.00    99.00
10  1 30 12    15.0 1    19.0     0.50     8.00    99.00    99.00
10  1 30 13    15.0 1    44.0     0.50     9.10    99.00    99.00
10  1 30 14    15.0 1    70.0     0.50    10.60    99.00    99.00
10  1 30 15    15.0 1    58.0     0.50    12.00    99.00    99.00
10  1 30 16    15.0 1   343.0     2.10    13.40    99.00    99.00
10  1 30 17    15.0 1    12.0     2.10    12.90    99.00    99.00
10  1 30 18    15.0 1    41.0     1.50    11.90    99.00    99.00
10  1 30 19    15.0 1    84.0     0.50    10.90    99.00    99.00
10  1 30 20    15.0 1   143.0     0.50     9.90    99.00    99.00
10  1 30 21    15.0 1   158.0     0.50     9.00    99.00    99.00
10  1 30 22    15.0 1   161.0     0.50     8.30    99.00    99.00
10  1 30 23    15.0 1   181.0     0.50     7.60    99.00    99.00
10  1 30 24    15.0 1   228.0     0.50     6.10    99.00    99.00
10  1 31  1    15.0 1    24.0     0.50     4.90    99.00    99.00
10  1 31  2    15.0 1    88.0     0.50     4.80    99.00    99.00
10  1 31  3    15.0 1   102.0     0.50     4.60    99.00    99.00
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10  1 31  4    15.0 1     0.0      0.00     4.60    99.00    99.00
10  1 31  5    15.0 1   263.0      0.50     4.90    99.00    99.00
10  1 31  6    15.0 1   257.0      1.00     5.10    99.00    99.00
10  1 31  7    15.0 1   285.0      1.00     5.10    99.00    99.00
10  1 31  8    15.0 1   292.0      1.50     4.60    99.00    99.00
10  1 31  9    15.0 1   296.0      1.50     4.40    99.00    99.00
10  1 31 10    15.0 1   304.0      2.10     4.60    99.00    99.00
10  1 31 11    15.0 1   318.0      1.50     4.90    99.00    99.00
10  1 31 12    15.0 1   336.0      1.00     5.30    99.00    99.00
10  1 31 13    15.0 1    27.0      1.00     7.00    99.00    99.00
10  1 31 14    15.0 1    24.0      1.00     9.10    99.00    99.00
10  1 31 15    15.0 1     9.0      1.50    10.60    99.00    99.00
10  1 31 16    15.0 1    16.0      1.50    10.80    99.00    99.00
10  1 31 17    15.0 1    48.0      1.50    10.10    99.00    99.00
10  1 31 18    15.0 1    79.0      1.50     9.30    99.00    99.00
10  1 31 19    15.0 1   116.0      0.50     8.30    99.00    99.00
10  1 31 20    15.0 1     0.0      0.00     7.50    99.00    99.00
10  1 31 21    15.0 1     0.0      0.00     6.80    99.00    99.00
10  1 31 22    15.0 1     0.0      0.00     6.30    99.00    99.00
10  1 31 23    15.0 1    66.0      1.00     5.80    99.00    99.00
10  1 31 24    15.0 1    73.0      1.00     5.60    99.00    99.00
10  2  1  1    15.0 1    83.0      0.50     5.60    99.00    99.00
10  2  1  2    15.0 1    88.0      0.50     5.60    99.00    99.00
10  2  1  3    15.0 1     0.0      0.00     5.60    99.00    99.00
10  2  1  4    15.0 1     0.0      0.00     5.60    99.00    99.00
10  2  1  5    15.0 1     0.0      0.00     5.40    99.00    99.00
10  2  1  6    15.0 1     0.0      0.00     5.40    99.00    99.00
10  2  1  7    15.0 1     0.0      0.00     5.60    99.00    99.00
10  2  1  8    15.0 1     0.0      0.00     5.90    99.00    99.00
10  2  1  9    15.0 1   350.0      0.50     7.00    99.00    99.00
10  2  1 10    15.0 1     4.0      1.00     9.30    99.00    99.00
10  2  1 11    15.0 1   336.0      1.00    10.60    99.00    99.00
10  2  1 12    15.0 1   326.0      2.10    11.10    99.00    99.00
10  2  1 13    15.0 1   334.0      3.10    11.30    99.00    99.00
10  2  1 14    15.0 1   309.0      2.60    11.10    99.00    99.00
10  2  1 15    15.0 1   256.0      1.00    10.90    99.00    99.00
10  2  1 16    15.0 1    96.0      1.00    10.60    99.00    99.00
10  2  1 17    15.0 1    88.0      1.00    10.50    99.00    99.00
10  2  1 18    15.0 1   182.0      1.00    10.40    99.00    99.00
10  2  1 19    15.0 1   166.0      2.60    10.10    99.00    99.00
10  2  1 20    15.0 1   179.0      2.60     9.60    99.00    99.00
10  2  1 21    15.0 1   195.0      2.60     9.40    99.00    99.00
10  2  1 22    15.0 1   192.0      1.50     9.10    99.00    99.00
10  2  1 23    15.0 1     0.0      0.00     9.10    99.00    99.00
10  2  1 24    15.0 1    42.0      1.50     8.90    99.00    99.00
10  2  2  1    15.0 1    32.0      2.60     8.60    99.00    99.00
10  2  2  2    15.0 1    35.0      2.10     8.60    99.00    99.00
10  2  2  3    15.0 1    23.0      1.00     8.40    99.00    99.00
10  2  2  4    15.0 1     5.0      0.50     8.40    99.00    99.00
10  2  2  5    15.0 1   349.0      0.50     8.30    99.00    99.00
10  2  2  6    15.0 1     0.0      0.00     8.10    99.00    99.00
10  2  2  7    15.0 1   356.0      1.00     8.10    99.00    99.00
10  2  2  8    15.0 1   346.0      1.00     8.10    99.00    99.00
10  2  2  9    15.0 1   345.0      1.50     8.40    99.00    99.00
10  2  2 10    15.0 1   326.0      2.60     8.80    99.00    99.00
10  2  2 11    15.0 1   331.0      2.60     9.10    99.00    99.00
10  2  2 12    15.0 1   336.0      3.10     9.40    99.00    99.00
10  2  2 13    15.0 1   343.0      3.60     9.80    99.00    99.00
10  2  2 14    15.0 1   346.0      3.60    10.00    99.00    99.00
10  2  2 15    15.0 1   352.0      3.10     9.90    99.00    99.00
10  2  2 16    15.0 1   350.0      2.60     9.60    99.00    99.00
10  2  2 17    15.0 1   348.0      1.50     9.10    99.00    99.00
10  2  2 18    15.0 1   354.0      1.50     9.00    99.00    99.00
10  2  2 19    15.0 1   338.0      0.50     8.90    99.00    99.00
10  2  2 20    15.0 1     0.0      0.00     8.90    99.00    99.00
10  2  2 21    15.0 1   253.0      0.50     8.80    99.00    99.00
10  2  2 22    15.0 1   290.0      0.50     8.80    99.00    99.00
10  2  2 23    15.0 1   319.0      0.50     8.80    99.00    99.00
10  2  2 24    15.0 1   293.0      1.00     8.80    99.00    99.00
10  2  3  1    15.0 1   291.0      1.00     8.80    99.00    99.00
10  2  3  2    15.0 1     0.0      0.00     8.90    99.00    99.00
10  2  3  3    15.0 1    66.0      0.50     8.90    99.00    99.00
10  2  3  4    15.0 1    68.0      0.50     8.90    99.00    99.00
10  2  3  5    15.0 1    66.0      1.00     8.60    99.00    99.00
10  2  3  6    15.0 1    76.0      1.50     8.30    99.00    99.00
10  2  3  7    15.0 1    80.0      1.50     7.90    99.00    99.00
10  2  3  8    15.0 1    72.0      1.50     7.80    99.00    99.00
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10  2  3  9    15.0 1    74.0     1.00     7.80    99.00    99.00
10  2  3 10    15.0 1    93.0     0.50     8.10    99.00    99.00
10  2  3 11    15.0 1     0.0     0.00     8.50    99.00    99.00
10  2  3 12    15.0 1   260.0     1.00     9.00    99.00    99.00
10  2  3 13    15.0 1   278.0     1.00     9.60    99.00    99.00
10  2  3 14    15.0 1   308.0     1.00     9.90    99.00    99.00
10  2  3 15    15.0 1   332.0     1.00    10.10    99.00    99.00
10  2  3 16    15.0 1     0.0     0.00    10.10    99.00    99.00
10  2  3 17    15.0 1    37.0     1.50     9.90    99.00    99.00
10  2  3 18    15.0 1    85.0     1.50     9.30    99.00    99.00
10  2  3 19    15.0 1   106.0     1.50     8.80    99.00    99.00
10  2  3 20    15.0 1   142.0     1.50     8.50    99.00    99.00
10  2  3 21    15.0 1   153.0     1.00     8.10    99.00    99.00
10  2  3 22    15.0 1   138.0     1.00     8.00    99.00    99.00
10  2  3 23    15.0 1   133.0     1.00     6.50    99.00    99.00
10  2  3 24    15.0 1   125.0     1.50     6.00    99.00    99.00
10  2  4  1    15.0 1   117.0     1.50     6.00    99.00    99.00
10  2  4  2    15.0 1   117.0     1.00     6.10    99.00    99.00
10  2  4  3    15.0 1   136.0     0.50     6.40    99.00    99.00
10  2  4  4    15.0 1   185.0     0.50     6.30    99.00    99.00
10  2  4  5    15.0 1     0.0     0.00     6.10    99.00    99.00
10  2  4  6    15.0 1     0.0     0.00     6.10    99.00    99.00
10  2  4  7    15.0 1     0.0     0.00     6.00    99.00    99.00
10  2  4  8    15.0 1     0.0     0.00     6.10    99.00    99.00
10  2  4  9    15.0 1     0.0     0.00     6.30    99.00    99.00
10  2  4 10    15.0 1     0.0     0.00     6.80    99.00    99.00
10  2  4 11    15.0 1     0.0     0.00     7.90    99.00    99.00
10  2  4 12    15.0 1     0.0     0.00     9.60    99.00    99.00
10  2  4 13    15.0 1     0.0     0.00    11.10    99.00    99.00
10  2  4 14    15.0 1     7.0     1.00    11.90    99.00    99.00
10  2  4 15    15.0 1    25.0     1.50    12.30    99.00    99.00
10  2  4 16    15.0 1    42.0     1.50    13.50    99.00    99.00
10  2  4 17    15.0 1    36.0     1.00    13.10    99.00    99.00
10  2  4 18    15.0 1     2.0     0.50    12.80    99.00    99.00
10  2  4 19    15.0 1   325.0     1.00    12.40    99.00    99.00
10  2  4 20    15.0 1   344.0     0.50    12.30    99.00    99.00
10  2  4 21    15.0 1   346.0     0.50    12.30    99.00    99.00
10  2  4 22    15.0 1    24.0     0.50    12.10    99.00    99.00
10  2  4 23    15.0 1    72.0     1.00    11.90    99.00    99.00
10  2  4 24    15.0 1    78.0     2.10    11.60    99.00    99.00
10  2  5  1    15.0 1    96.0     2.60    11.40    99.00    99.00
10  2  5  2    15.0 1   129.0     2.10    11.10    99.00    99.00
10  2  5  3    15.0 1   162.0     1.50    11.00    99.00    99.00
10  2  5  4    15.0 1   182.0     1.00    10.80    99.00    99.00
10  2  5  5    15.0 1   129.0     0.50    10.60    99.00    99.00
10  2  5  6    15.0 1    96.0     1.50    10.90    99.00    99.00
10  2  5  7    15.0 1   109.0     1.00    11.10    99.00    99.00
10  2  5  8    15.0 1    38.0     0.50    11.30    99.00    99.00
10  2  5  9    15.0 1    50.0     1.00    11.40    99.00    99.00
10  2  5 10    15.0 1    55.0     1.50    12.40    99.00    99.00
10  2  5 11    15.0 1    32.0     1.50    14.10    99.00    99.00
10  2  5 12    15.0 1    32.0     1.00    15.80    99.00    99.00
10  2  5 13    15.0 1     0.0     0.00    16.80    99.00    99.00
10  2  5 14    15.0 1   256.0     0.50    17.00    99.00    99.00
10  2  5 15    15.0 1   234.0     0.50    16.90    99.00    99.00
10  2  5 16    15.0 1   175.0     0.50    16.60    99.00    99.00
10  2  5 17    15.0 1   113.0     0.50    16.10    99.00    99.00
10  2  5 18    15.0 1   117.0     1.00    15.60    99.00    99.00
10  2  5 19    15.0 1   125.0     1.50    15.10    99.00    99.00
10  2  5 20    15.0 1   112.0     2.10    14.80    99.00    99.00
10  2  5 21    15.0 1    99.0     3.10    14.60    99.00    99.00
10  2  5 22    15.0 1   112.0     3.60    14.60    99.00    99.00
10  2  5 23    15.0 1   114.0     3.60    14.30    99.00    99.00
10  2  5 24    15.0 1   117.0     3.60    14.10    99.00    99.00
10  2  6  1    15.0 1   118.0     3.60    14.10    99.00    99.00
10  2  6  2    15.0 1   123.0     3.60    14.10    99.00    99.00
10  2  6  3    15.0 1   110.0     3.60    14.10    99.00    99.00
10  2  6  4    15.0 1   106.0     4.10    14.10    99.00    99.00
10  2  6  5    15.0 1    98.0     4.10    14.00    99.00    99.00
10  2  6  6    15.0 1    97.0     4.60    13.80    99.00    99.00
10  2  6  7    15.0 1    94.0     4.10    13.60    99.00    99.00
10  2  6  8    15.0 1    89.0     4.10    13.60    99.00    99.00
10  2  6  9    15.0 1    94.0     3.60    13.60    99.00    99.00
10  2  6 10    15.0 1   148.0     1.50    15.30    99.00    99.00
10  2  6 11    15.0 1   228.0     2.60    17.40    99.00    99.00
10  2  6 12    15.0 1   286.0     4.60    17.10    99.00    99.00
10  2  6 13    15.0 1   304.0     7.70    14.40    99.00    99.00
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10  2  6 14    15.0 1   309.0     4.60    13.10    99.00    99.00
10  2  6 15    15.0 1   135.0     1.50    13.30    99.00    99.00
10  2  6 16    15.0 1   122.0     2.10    13.40    99.00    99.00
10  2  6 17    15.0 1   112.0     2.60    13.00    99.00    99.00
10  2  6 18    15.0 1   212.0     0.50    12.60    99.00    99.00
10  2  6 19    15.0 1   288.0     4.10    11.80    99.00    99.00
10  2  6 20    15.0 1   291.0     4.60    10.90    99.00    99.00
10  2  6 21    15.0 1   289.0     4.60    10.10    99.00    99.00
10  2  6 22    15.0 1   292.0     5.10     9.50    99.00    99.00
10  2  6 23    15.0 1   297.0     5.10     9.00    99.00    99.00
10  2  6 24    15.0 1   287.0     3.10     8.90    99.00    99.00
10  2  7  1    15.0 1   268.0     2.60     8.80    99.00    99.00
10  2  7  2    15.0 1   275.0     3.10     8.80    99.00    99.00
10  2  7  3    15.0 1   294.0     4.10     8.60    99.00    99.00
10  2  7  4    15.0 1   298.0     4.10     8.30    99.00    99.00
10  2  7  5    15.0 1   301.0     3.60     7.80    99.00    99.00
10  2  7  6    15.0 1   300.0     3.10     7.50    99.00    99.00
10  2  7  7    15.0 1   292.0     3.10     7.30    99.00    99.00
10  2  7  8    15.0 1   304.0     4.10     7.50    99.00    99.00
10  2  7  9    15.0 1   324.0     4.60     8.10    99.00    99.00
10  2  7 10    15.0 1   333.0     3.60     8.60    99.00    99.00
10  2  7 11    15.0 1   328.0     3.10     8.90    99.00    99.00
10  2  7 12    15.0 1   321.0     3.10     8.90    99.00    99.00
10  2  7 13    15.0 1   312.0     3.10     8.90    99.00    99.00
10  2  7 14    15.0 1   310.0     2.60     9.00    99.00    99.00
10  2  7 15    15.0 1   331.0     2.60     9.10    99.00    99.00
10  2  7 16    15.0 1   351.0     2.60     9.10    99.00    99.00
10  2  7 17    15.0 1    14.0     2.10     9.00    99.00    99.00
10  2  7 18    15.0 1    33.0     1.50     8.60    99.00    99.00
10  2  7 19    15.0 1    58.0     0.50     8.10    99.00    99.00
10  2  7 20    15.0 1   155.0     0.50     7.60    99.00    99.00
10  2  7 21    15.0 1   180.0     1.50     7.10    99.00    99.00
10  2  7 22    15.0 1   195.0     2.10     6.60    99.00    99.00
10  2  7 23    15.0 1   203.0     1.50     6.40    99.00    99.00
10  2  7 24    15.0 1   214.0     0.50     5.60    99.00    99.00
10  2  8  1    15.0 1     0.0     0.00     5.40    99.00    99.00
10  2  8  2    15.0 1     0.0     0.00     5.60    99.00    99.00
10  2  8  3    15.0 1   305.0     0.50     6.00    99.00    99.00
10  2  8  4    15.0 1   301.0     0.50     6.30    99.00    99.00
10  2  8  5    15.0 1   300.0     0.50     6.40    99.00    99.00
10  2  8  6    15.0 1   322.0     1.50     6.10    99.00    99.00
10  2  8  7    15.0 1   321.0     3.10     6.00    99.00    99.00
10  2  8  8    15.0 1   335.0     3.60     5.90    99.00    99.00
10  2  8  9    15.0 1   331.0     3.60     5.80    99.00    99.00
10  2  8 10    15.0 1   334.0     3.60     6.00    99.00    99.00
10  2  8 11    15.0 1   316.0     2.60     6.40    99.00    99.00
10  2  8 12    15.0 1   313.0     1.50     7.40    99.00    99.00
10  2  8 13    15.0 1     0.0     0.00     9.50    99.00    99.00
10  2  8 14    15.0 1     0.0     0.00    10.60    99.00    99.00
10  2  8 15    15.0 1     0.0     0.00    11.40    99.00    99.00
10  2  8 16    15.0 1     0.0     0.00    11.60    99.00    99.00
10  2  8 17    15.0 1    38.0     0.50    11.30    99.00    99.00
10  2  8 18    15.0 1    99.0     0.50    10.40    99.00    99.00
10  2  8 19    15.0 1   145.0     1.50     9.30    99.00    99.00
10  2  8 20    15.0 1   147.0     3.60     8.10    99.00    99.00
10  2  8 21    15.0 1   163.0     3.60     7.50    99.00    99.00
10  2  8 22    15.0 1   149.0     3.10     7.30    99.00    99.00
10  2  8 23    15.0 1   136.0     3.10     7.10    99.00    99.00
10  2  8 24    15.0 1   142.0     2.10     7.10    99.00    99.00
10  2  9  1    15.0 1   129.0     1.00     7.00    99.00    99.00
10  2  9  2    15.0 1    84.0     0.50     6.90    99.00    99.00
10  2  9  3    15.0 1     0.0     0.00     6.60    99.00    99.00
10  2  9  4    15.0 1     0.0     0.00     6.60    99.00    99.00
10  2  9  5    15.0 1     0.0     0.00     6.60    99.00    99.00
10  2  9  6    15.0 1    98.0     0.50     6.80    99.00    99.00
10  2  9  7    15.0 1   126.0     1.50     6.90    99.00    99.00
10  2  9  8    15.0 1   137.0     2.60     7.10    99.00    99.00
10  2  9  9    15.0 1   160.0     2.60     8.00    99.00    99.00
10  2  9 10    15.0 1   171.0     2.10     9.40    99.00    99.00
10  2  9 11    15.0 1   181.0     1.00    10.80    99.00    99.00
10  2  9 12    15.0 1   224.0     2.10    11.10    99.00    99.00
10  2  9 13    15.0 1   209.0     3.10    10.40    99.00    99.00
10  2  9 14    15.0 1   156.0     2.60     9.90    99.00    99.00
10  2  9 15    15.0 1   117.0     3.10     9.50    99.00    99.00
10  2  9 16    15.0 1   128.0     3.60     9.60    99.00    99.00
10  2  9 17    15.0 1   112.0     3.10     9.10    99.00    99.00
10  2  9 18    15.0 1    87.0     2.60     8.90    99.00    99.00
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10  2  9 19    15.0 1    47.0     0.50     8.60    99.00    99.00
10  2  9 20    15.0 1   309.0     1.50     8.60    99.00    99.00
10  2  9 21    15.0 1   316.0     1.50     8.60    99.00    99.00
10  2  9 22    15.0 1   285.0     1.50     8.30    99.00    99.00
10  2  9 23    15.0 1   325.0     1.50     8.10    99.00    99.00
10  2  9 24    15.0 1   331.0     2.60     8.00    99.00    99.00
10  2 10  1    15.0 1     5.0     3.10     7.40    99.00    99.00
10  2 10  2    15.0 1    29.0     2.10     6.80    99.00    99.00
10  2 10  3    15.0 1   350.0     2.10     6.80    99.00    99.00
10  2 10  4    15.0 1   331.0     2.60     6.80    99.00    99.00
10  2 10  5    15.0 1   316.0     2.10     6.50    99.00    99.00
10  2 10  6    15.0 1   305.0     1.00     6.10    99.00    99.00
10  2 10  7    15.0 1   241.0     1.50     5.90    99.00    99.00
10  2 10  8    15.0 1   249.0     1.50     6.10    99.00    99.00
10  2 10  9    15.0 1   297.0     1.00     7.60    99.00    99.00
10  2 10 10    15.0 1   290.0     0.50     8.80    99.00    99.00
10  2 10 11    15.0 1   271.0     0.50    10.10    99.00    99.00
10  2 10 12    15.0 1   282.0     0.50    11.40    99.00    99.00
10  2 10 13    15.0 1   294.0     1.00    12.50    99.00    99.00
10  2 10 14    15.0 1   289.0     1.00    13.30    99.00    99.00
10  2 10 15    15.0 1   313.0     1.50    13.60    99.00    99.00
10  2 10 16    15.0 1   325.0     2.10    13.60    99.00    99.00
10  2 10 17    15.0 1   338.0     1.50    13.30    99.00    99.00
10  2 10 18    15.0 1   354.0     1.00    12.40    99.00    99.00
10  2 10 19    15.0 1   360.0     0.50    11.30    99.00    99.00
10  2 10 20    15.0 1     0.0     0.00    10.10    99.00    99.00
10  2 10 21    15.0 1   155.0     0.50     9.10    99.00    99.00
10  2 10 22    15.0 1   134.0     0.50     8.40    99.00    99.00
10  2 10 23    15.0 1   107.0     1.00     8.10    99.00    99.00
10  2 10 24    15.0 1   121.0     1.00     7.90    99.00    99.00
10  2 11  1    15.0 1   136.0     1.00     7.80    99.00    99.00
10  2 11  2    15.0 1   163.0     1.00     7.80    99.00    99.00
10  2 11  3    15.0 1   184.0     0.50     7.60    99.00    99.00
10  2 11  4    15.0 1   222.0     0.50     7.50    99.00    99.00
10  2 11  5    15.0 1   247.0     0.50     7.30    99.00    99.00
10  2 11  6    15.0 1   246.0     0.50     6.90    99.00    99.00
10  2 11  7    15.0 1   253.0     0.50     6.50    99.00    99.00
10  2 11  8    15.0 1   228.0     0.50     6.30    99.00    99.00
10  2 11  9    15.0 1   283.0     0.50     7.50    99.00    99.00
10  2 11 10    15.0 1     0.0     0.00     8.90    99.00    99.00
10  2 11 11    15.0 1     0.0     0.00    10.40    99.00    99.00
10  2 11 12    15.0 1   271.0     0.50    11.30    99.00    99.00
10  2 11 13    15.0 1   268.0     1.00    11.90    99.00    99.00
10  2 11 14    15.0 1   282.0     1.00    12.30    99.00    99.00
10  2 11 15    15.0 1   315.0     1.00    12.40    99.00    99.00
10  2 11 16    15.0 1   315.0     0.50    12.40    99.00    99.00
10  2 11 17    15.0 1     0.0     0.00    12.10    99.00    99.00
10  2 11 18    15.0 1     0.0     0.00    11.60    99.00    99.00
10  2 11 19    15.0 1     0.0     0.00    11.10    99.00    99.00
10  2 11 20    15.0 1   173.0     0.50    10.50    99.00    99.00
10  2 11 21    15.0 1   171.0     1.00    10.00    99.00    99.00
10  2 11 22    15.0 1   146.0     0.50     9.30    99.00    99.00
10  2 11 23    15.0 1    86.0     0.50     8.50    99.00    99.00
10  2 11 24    15.0 1    84.0     1.00     7.60    99.00    99.00
10  2 12  1    15.0 1    89.0     0.50     7.00    99.00    99.00
10  2 12  2    15.0 1   109.0     0.50     6.50    99.00    99.00
10  2 12  3    15.0 1   134.0     0.50     6.00    99.00    99.00
10  2 12  4    15.0 1   141.0     1.00     5.60    99.00    99.00
10  2 12  5    15.0 1   129.0     1.00     5.30    99.00    99.00
10  2 12  6    15.0 1   122.0     1.00     5.00    99.00    99.00
10  2 12  7    15.0 1   123.0     1.00     4.60    99.00    99.00
10  2 12  8    15.0 1   122.0     1.00     5.10    99.00    99.00
10  2 12  9    15.0 1     0.0     0.00     8.50    99.00    99.00
10  2 12 10    15.0 1     0.0     0.00    10.80    99.00    99.00
10  2 12 11    15.0 1     0.0     0.00    12.80    99.00    99.00
10  2 12 12    15.0 1     0.0     0.00    14.10    99.00    99.00
10  2 12 13    15.0 1   308.0     0.50    15.10    99.00    99.00
10  2 12 14    15.0 1   321.0     1.00    15.90    99.00    99.00
10  2 12 15    15.0 1   328.0     1.50    16.30    99.00    99.00
10  2 12 16    15.0 1   354.0     2.10    16.10    99.00    99.00
10  2 12 17    15.0 1     8.0     2.10    15.90    99.00    99.00
10  2 12 18    15.0 1    32.0     1.50    14.80    99.00    99.00
10  2 12 19    15.0 1    65.0     1.00    13.60    99.00    99.00
10  2 12 20    15.0 1    90.0     0.50    12.40    99.00    99.00
10  2 12 21    15.0 1   102.0     0.50    11.10    99.00    99.00
10  2 12 22    15.0 1   105.0     0.50    10.10    99.00    99.00
10  2 12 23    15.0 1    98.0     0.50     9.10    99.00    99.00
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10  2 12 24     15.0 1   115.0      1.00      8.50     99.00     99.00
10  2 13  1     15.0 1   124.0      1.00      7.90     99.00     99.00
10  2 13  2     15.0 1   135.0      1.00      7.50     99.00     99.00
10  2 13  3     15.0 1   129.0      0.50      7.10     99.00     99.00
10  2 13  4     15.0 1   117.0      0.50      6.60     99.00     99.00
10  2 13  5     15.0 1   124.0      0.50      6.10     99.00     99.00
10  2 13  6     15.0 1     0.0      0.00      5.80     99.00     99.00
10  2 13  7     15.0 1   317.0      0.50      5.40     99.00     99.00
10  2 13  8     15.0 1   330.0      2.10      6.00     99.00     99.00
10  2 13  9     15.0 1   339.0      2.60      6.80     99.00     99.00
10  2 13 10     15.0 1   341.0      2.60      7.30     99.00     99.00
10  2 13 11     15.0 1   334.0      1.50      7.30     99.00     99.00
10  2 13 12     15.0 1   321.0      1.50      7.50     99.00     99.00
10  2 13 13     15.0 1   319.0      1.50      8.10     99.00     99.00
10  2 13 14     15.0 1   337.0      1.50     10.00     99.00     99.00
10  2 13 15     15.0 1     0.0      0.00     12.00     99.00     99.00
10  2 13 16     15.0 1    19.0      1.50     12.60     99.00     99.00
10  2 13 17     15.0 1    40.0      2.10     12.30     99.00     99.00
10  2 13 18     15.0 1    65.0      1.50     11.30     99.00     99.00
10  2 13 19     15.0 1    94.0      0.50     10.30     99.00     99.00
10  2 13 20     15.0 1     0.0      0.00      9.40     99.00     99.00
10  2 13 21     15.0 1     0.0      0.00      8.60     99.00     99.00
10  2 13 22     15.0 1     0.0      0.00      7.60     99.00     99.00
10  2 13 23     15.0 1     0.0      0.00      5.10     99.00     99.00
10  2 13 24     15.0 1     0.0      0.00      4.10     99.00     99.00
10  2 14  1     15.0 1     0.0      0.00      3.50     99.00     99.00
10  2 14  2     15.0 1    82.0      0.50      3.60     99.00     99.00
10  2 14  3     15.0 1     0.0      0.00      3.50     99.00     99.00
10  2 14  4     15.0 1     0.0      0.00      3.40     99.00     99.00
10  2 14  5     15.0 1     0.0      0.00      3.30     99.00     99.00
10  2 14  6     15.0 1     0.0      0.00      3.40     99.00     99.00
10  2 14  7     15.0 1     0.0      0.00      3.60     99.00     99.00
10  2 14  8     15.0 1   334.0      0.50      4.40     99.00     99.00
10  2 14  9     15.0 1   333.0      0.50      6.50     99.00     99.00
10  2 14 10     15.0 1     0.0      0.00      9.90     99.00     99.00
10  2 14 11     15.0 1   318.0      0.50     12.60     99.00     99.00
10  2 14 12     15.0 1   324.0      1.50     14.40     99.00     99.00
10  2 14 13     15.0 1   322.0      1.50     15.60     99.00     99.00
10  2 14 14     15.0 1   317.0      2.10     16.50     99.00     99.00
10  2 14 15     15.0 1   335.0      2.10     16.90     99.00     99.00
10  2 14 16     15.0 1   333.0      2.60     18.10     99.00     99.00
10  2 14 17     15.0 1   333.0      2.60     17.40     99.00     99.00
10  2 14 18     15.0 1   326.0      3.10     16.50     99.00     99.00
10  2 14 19     15.0 1   329.0      3.10     15.40     99.00     99.00
10  2 14 20     15.0 1   317.0      2.60     14.60     99.00     99.00
10  2 14 21     15.0 1   321.0      2.10     14.00     99.00     99.00
10  2 14 22     15.0 1   328.0      2.10     13.50     99.00     99.00
10  2 14 23     15.0 1   328.0      2.10     13.10     99.00     99.00
10  2 14 24     15.0 1   323.0      1.50     12.80     99.00     99.00
10  2 15  1     15.0 1   303.0      1.00     12.50     99.00     99.00
10  2 15  2     15.0 1   262.0      1.00     12.10     99.00     99.00
10  2 15  3     15.0 1   262.0      0.50     11.80     99.00     99.00
10  2 15  4     15.0 1   290.0      0.50     11.10     99.00     99.00
10  2 15  5     15.0 1     0.0      0.00     10.60     99.00     99.00
10  2 15  6     15.0 1     0.0      0.00      9.90     99.00     99.00
10  2 15  7     15.0 1     0.0      0.00      9.30     99.00     99.00
10  2 15  8     15.0 1     0.0      0.00      9.30     99.00     99.00
10  2 15  9     15.0 1   286.0      0.50     12.10     99.00     99.00
10  2 15 10     15.0 1   288.0      0.50     14.00     99.00     99.00
10  2 15 11     15.0 1   296.0      1.00     15.60     99.00     99.00
10  2 15 12     15.0 1   315.0      1.50     16.90     99.00     99.00
10  2 15 13     15.0 1   308.0      1.50     18.10     99.00     99.00
10  2 15 14     15.0 1   322.0      1.50     18.80     99.00     99.00
10  2 15 15     15.0 1   328.0      1.50     19.10     99.00     99.00
10  2 15 16     15.0 1   336.0      1.50     19.10     99.00     99.00
10  2 15 17     15.0 1   334.0      1.00     18.90     99.00     99.00
10  2 15 18     15.0 1     0.0      0.00     17.90     99.00     99.00
10  2 15 19     15.0 1     0.0      0.00     16.50     99.00     99.00
10  2 15 20     15.0 1     0.0      0.00     15.30     99.00     99.00
10  2 15 21     15.0 1   121.0      0.50     14.10     99.00     99.00
10  2 15 22     15.0 1     0.0      0.00     13.30     99.00     99.00
10  2 15 23     15.0 1   320.0      0.50     12.60     99.00     99.00
10  2 15 24     15.0 1   304.0      0.50     12.30     99.00     99.00
10  2 16  1     15.0 1   265.0      0.50     12.10     99.00     99.00
10  2 16  2     15.0 1   261.0      1.50     11.80     99.00     99.00
10  2 16  3     15.0 1   262.0      2.10     11.40     99.00     99.00
10  2 16  4     15.0 1   274.0      2.60     11.00     99.00     99.00
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10  2 16  5    15.0 1   271.0     2.60    10.60    99.00    99.00
10  2 16  6    15.0 1   269.0     2.10    10.50    99.00    99.00
10  2 16  7    15.0 1   265.0     1.50    10.40    99.00    99.00
10  2 16  8    15.0 1   240.0     1.50    10.60    99.00    99.00
10  2 16  9    15.0 1   268.0     1.50    11.60    99.00    99.00
10  2 16 10    15.0 1   304.0     1.50    13.10    99.00    99.00
10  2 16 11    15.0 1   305.0     1.00    14.60    99.00    99.00
10  2 16 12    15.0 1   302.0     1.00    16.30    99.00    99.00
10  2 16 13    15.0 1   313.0     1.00    17.30    99.00    99.00
10  2 16 14    15.0 1   335.0     1.50    17.90    99.00    99.00
10  2 16 15    15.0 1   346.0     2.10    18.10    99.00    99.00
10  2 16 16    15.0 1    10.0     2.60    17.80    99.00    99.00
10  2 16 17    15.0 1    22.0     2.60    17.10    99.00    99.00
10  2 16 18    15.0 1    19.0     1.50    16.10    99.00    99.00
10  2 16 19    15.0 1   262.0     0.50    15.10    99.00    99.00
10  2 16 20    15.0 1   234.0     0.50    14.10    99.00    99.00
10  2 16 21    15.0 1     0.0     0.00    13.40    99.00    99.00
10  2 16 22    15.0 1     0.0     0.00    13.10    99.00    99.00
10  2 16 23    15.0 1   341.0     0.50    13.00    99.00    99.00
10  2 16 24    15.0 1   344.0     1.00    13.00    99.00    99.00
10  2 17  1    15.0 1   296.0     0.50    12.90    99.00    99.00
10  2 17  2    15.0 1     0.0     0.00    12.50    99.00    99.00
10  2 17  3    15.0 1   281.0     0.50    11.90    99.00    99.00
10  2 17  4    15.0 1   294.0     1.50    11.40    99.00    99.00
10  2 17  5    15.0 1   291.0     3.10    11.00    99.00    99.00
10  2 17  6    15.0 1   287.0     2.10    10.80    99.00    99.00
10  2 17  7    15.0 1   285.0     1.50    10.60    99.00    99.00
10  2 17  8    15.0 1   281.0     1.50    10.80    99.00    99.00
10  2 17  9    15.0 1   308.0     1.50    12.60    99.00    99.00
10  2 17 10    15.0 1   291.0     1.00    14.40    99.00    99.00
10  2 17 11    15.0 1   285.0     1.00    16.50    99.00    99.00
10  2 17 12    15.0 1   304.0     1.00    17.90    99.00    99.00
10  2 17 13    15.0 1   318.0     1.00    19.10    99.00    99.00
10  2 17 14    15.0 1   334.0     1.50    20.00    99.00    99.00
10  2 17 15    15.0 1   354.0     2.10    20.50    99.00    99.00
10  2 17 16    15.0 1     2.0     2.60    20.40    99.00    99.00
10  2 17 17    15.0 1     9.0     2.10    19.90    99.00    99.00
10  2 17 18    15.0 1    29.0     1.50    18.60    99.00    99.00
10  2 17 19    15.0 1    84.0     0.50    17.40    99.00    99.00
10  2 17 20    15.0 1     0.0     0.00    16.10    99.00    99.00
10  2 17 21    15.0 1   200.0     0.50    15.00    99.00    99.00
10  2 17 22    15.0 1   202.0     1.00    14.10    99.00    99.00
10  2 17 23    15.0 1     0.0     0.00    13.30    99.00    99.00
10  2 17 24    15.0 1    46.0     0.50    12.50    99.00    99.00
10  2 18  1    15.0 1    63.0     1.00    11.80    99.00    99.00
10  2 18  2    15.0 1    63.0     1.00    11.30    99.00    99.00
10  2 18  3    15.0 1    63.0     0.50    10.90    99.00    99.00
10  2 18  4    15.0 1     0.0     0.00    10.40    99.00    99.00
10  2 18  5    15.0 1     0.0     0.00     9.90    99.00    99.00
10  2 18  6    15.0 1     0.0     0.00     9.50    99.00    99.00
10  2 18  7    15.0 1   300.0     0.50     9.10    99.00    99.00
10  2 18  8    15.0 1   304.0     1.00     9.60    99.00    99.00
10  2 18  9    15.0 1   308.0     1.50    12.80    99.00    99.00
10  2 18 10    15.0 1   308.0     1.00    14.60    99.00    99.00
10  2 18 11    15.0 1   299.0     0.50    16.60    99.00    99.00
10  2 18 12    15.0 1   297.0     0.50    17.80    99.00    99.00
10  2 18 13    15.0 1   296.0     1.50    18.60    99.00    99.00
10  2 18 14    15.0 1   297.0     2.10    19.00    99.00    99.00
10  2 18 15    15.0 1   321.0     2.10    19.10    99.00    99.00
10  2 18 16    15.0 1   316.0     2.10    19.00    99.00    99.00
10  2 18 17    15.0 1   339.0     1.50    18.50    99.00    99.00
10  2 18 18    15.0 1   353.0     1.00    17.60    99.00    99.00
10  2 18 19    15.0 1     0.0     0.00    16.90    99.00    99.00
10  2 18 20    15.0 1   234.0     1.00    16.00    99.00    99.00
10  2 18 21    15.0 1   258.0     3.10    15.30    99.00    99.00
10  2 18 22    15.0 1   273.0     4.10    13.90    99.00    99.00
10  2 18 23    15.0 1   282.0     4.60    13.00    99.00    99.00
10  2 18 24    15.0 1   295.0     4.10    12.50    99.00    99.00
10  2 19  1    15.0 1   289.0     4.10    12.10    99.00    99.00
10  2 19  2    15.0 1   289.0     3.60    12.00    99.00    99.00
10  2 19  3    15.0 1   278.0     3.60    11.80    99.00    99.00
10  2 19  4    15.0 1   276.0     3.10    11.60    99.00    99.00
10  2 19  5    15.0 1   279.0     2.60    11.60    99.00    99.00
10  2 19  6    15.0 1   278.0     2.10    11.90    99.00    99.00
10  2 19  7    15.0 1   280.0     1.50    12.00    99.00    99.00
10  2 19  8    15.0 1   247.0     0.50    12.00    99.00    99.00
10  2 19  9    15.0 1   264.0     1.50    12.30    99.00    99.00
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10  2 19 10    15.0 1   271.0     1.50    13.00    99.00    99.00
10  2 19 11    15.0 1     0.0     0.00    13.60    99.00    99.00
10  2 19 12    15.0 1     0.0     0.00    14.60    99.00    99.00
10  2 19 13    15.0 1     0.0     0.00    15.00    99.00    99.00
10  2 19 14    15.0 1    52.0     0.50    15.60    99.00    99.00
10  2 19 15    15.0 1    47.0     1.00    16.00    99.00    99.00
10  2 19 16    15.0 1    27.0     2.10    16.60    99.00    99.00
10  2 19 17    15.0 1    34.0     2.10    16.10    99.00    99.00
10  2 19 18    15.0 1   347.0     1.00    15.00    99.00    99.00
10  2 19 19    15.0 1   272.0     1.50    14.00    99.00    99.00
10  2 19 20    15.0 1   280.0     2.60    13.10    99.00    99.00
10  2 19 21    15.0 1   318.0     3.10    12.60    99.00    99.00
10  2 19 22    15.0 1   339.0     4.10    12.30    99.00    99.00
10  2 19 23    15.0 1   337.0     4.10    12.00    99.00    99.00
10  2 19 24    15.0 1   338.0     3.10    11.80    99.00    99.00
10  2 20  1    15.0 1   328.0     2.10    11.60    99.00    99.00
10  2 20  2    15.0 1   343.0     1.50    11.50    99.00    99.00
10  2 20  3    15.0 1     4.0     1.50    11.40    99.00    99.00
10  2 20  4    15.0 1    11.0     1.00    11.10    99.00    99.00
10  2 20  5    15.0 1     8.0     1.00    11.10    99.00    99.00
10  2 20  6    15.0 1     0.0     0.00    11.10    99.00    99.00
10  2 20  7    15.0 1    22.0     0.50    11.10    99.00    99.00
10  2 20  8    15.0 1     0.0     0.00    11.10    99.00    99.00
10  2 20  9    15.0 1     0.0     0.00    11.40    99.00    99.00
10  2 20 10    15.0 1    17.0     0.50    12.10    99.00    99.00
10  2 20 11    15.0 1     0.0     0.00    13.60    99.00    99.00
10  2 20 12    15.0 1     0.0     0.00    14.10    99.00    99.00
10  2 20 13    15.0 1     0.0     0.00    15.00    99.00    99.00
10  2 20 14    15.0 1     0.0     0.00    15.60    99.00    99.00
10  2 20 15    15.0 1     0.0     0.00    16.10    99.00    99.00
10  2 20 16    15.0 1    86.0     0.50    16.30    99.00    99.00
10  2 20 17    15.0 1   178.0     0.50    16.10    99.00    99.00
10  2 20 18    15.0 1   277.0     1.00    15.60    99.00    99.00
10  2 20 19    15.0 1   315.0     2.10    14.80    99.00    99.00
10  2 20 20    15.0 1   321.0     3.60    13.80    99.00    99.00
10  2 20 21    15.0 1   325.0     4.10    12.80    99.00    99.00
10  2 20 22    15.0 1   306.0     4.10    12.00    99.00    99.00
10  2 20 23    15.0 1   286.0     4.10    11.40    99.00    99.00
10  2 20 24    15.0 1   290.0     4.60    10.30    99.00    99.00
10  2 21  1    15.0 1   280.0     4.10     9.10    99.00    99.00
10  2 21  2    15.0 1   284.0     3.60     8.50    99.00    99.00
10  2 21  3    15.0 1   278.0     3.60     8.10    99.00    99.00
10  2 21  4    15.0 1   278.0     3.60     8.10    99.00    99.00
10  2 21  5    15.0 1   284.0     3.10     8.10    99.00    99.00
10  2 21  6    15.0 1   288.0     2.10     8.30    99.00    99.00
10  2 21  7    15.0 1   294.0     1.50     8.50    99.00    99.00
10  2 21  8    15.0 1   296.0     1.00     8.60    99.00    99.00
10  2 21  9    15.0 1   324.0     1.50     9.80    99.00    99.00
10  2 21 10    15.0 1   306.0     1.00    10.50    99.00    99.00
10  2 21 11    15.0 1   302.0     1.00    11.00    99.00    99.00
10  2 21 12    15.0 1   314.0     0.50    11.40    99.00    99.00
10  2 21 13    15.0 1     0.0     0.00    11.60    99.00    99.00
10  2 21 14    15.0 1     0.0     0.00    11.80    99.00    99.00
10  2 21 15    15.0 1    88.0     0.50    12.10    99.00    99.00
10  2 21 16    15.0 1    98.0     1.50    12.10    99.00    99.00
10  2 21 17    15.0 1   108.0     1.50    12.10    99.00    99.00
10  2 21 18    15.0 1   131.0     1.50    11.50    99.00    99.00
10  2 21 19    15.0 1   152.0     1.50    11.00    99.00    99.00
10  2 21 20    15.0 1   154.0     2.10    10.60    99.00    99.00
10  2 21 21    15.0 1   139.0     2.60    10.30    99.00    99.00
10  2 21 22    15.0 1   153.0     2.60    10.10    99.00    99.00
10  2 21 23    15.0 1   172.0     2.10    10.10    99.00    99.00
10  2 21 24    15.0 1   256.0     1.50     9.80    99.00    99.00
10  2 22  1    15.0 1   306.0     3.10     8.90    99.00    99.00
10  2 22  2    15.0 1   320.0     3.60     8.10    99.00    99.00
10  2 22  3    15.0 1   320.0     3.10     8.10    99.00    99.00
10  2 22  4    15.0 1   316.0     4.10     8.10    99.00    99.00
10  2 22  5    15.0 1   324.0     4.10     8.00    99.00    99.00
10  2 22  6    15.0 1   330.0     3.60     7.60    99.00    99.00
10  2 22  7    15.0 1   335.0     3.60     7.10    99.00    99.00
10  2 22  8    15.0 1   350.0     4.60     6.80    99.00    99.00
10  2 22  9    15.0 1   354.0     4.10     8.90    99.00    99.00
10  2 22 10    15.0 1   337.0     3.60    10.00    99.00    99.00
10  2 22 11    15.0 1   334.0     3.10    11.00    99.00    99.00
10  2 22 12    15.0 1   306.0     2.10    11.80    99.00    99.00
10  2 22 13    15.0 1   299.0     1.00    12.50    99.00    99.00
10  2 22 14    15.0 1   304.0     0.50    13.10    99.00    99.00
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10  2 22 15     15.0 1   314.0      1.50     13.50     99.00     99.00
10  2 22 16     15.0 1   322.0      1.50     13.60     99.00     99.00
10  2 22 17     15.0 1   333.0      2.10     13.40     99.00     99.00
10  2 22 18     15.0 1   341.0      1.50     12.60     99.00     99.00
10  2 22 19     15.0 1   348.0      1.00     11.60     99.00     99.00
10  2 22 20     15.0 1     0.0      0.00     10.60     99.00     99.00
10  2 22 21     15.0 1   196.0      0.50      9.50     99.00     99.00
10  2 22 22     15.0 1   169.0      1.00      8.50     99.00     99.00
10  2 22 23     15.0 1   175.0      1.50      7.80     99.00     99.00
10  2 22 24     15.0 1   187.0      1.50      7.50     99.00     99.00
10  2 23  1     15.0 1   256.0      1.00      7.10     99.00     99.00
10  2 23  2     15.0 1   298.0      1.50      6.90     99.00     99.00
10  2 23  3     15.0 1   290.0      2.60      6.10     99.00     99.00
10  2 23  4     15.0 1   289.0      2.60      5.60     99.00     99.00
10  2 23  5     15.0 1   291.0      2.60      5.10     99.00     99.00
10  2 23  6     15.0 1   293.0      2.60      5.00     99.00     99.00
10  2 23  7     15.0 1   295.0      2.10      5.10     99.00     99.00
10  2 23  8     15.0 1   301.0      0.50      5.80     99.00     99.00
10  2 23  9     15.0 1   352.0      0.50      7.60     99.00     99.00
10  2 23 10     15.0 1    21.0      0.50      9.80     99.00     99.00
10  2 23 11     15.0 1   339.0      0.50     11.10     99.00     99.00
10  2 23 12     15.0 1   336.0      1.50     12.40     99.00     99.00
10  2 23 13     15.0 1   346.0      2.10     12.80     99.00     99.00
10  2 23 14     15.0 1   345.0      2.10     13.10     99.00     99.00
10  2 23 15     15.0 1     0.0      0.00     13.10     99.00     99.00
10  2 23 16     15.0 1    17.0      1.50     13.10     99.00     99.00
10  2 23 17     15.0 1   356.0      1.50     12.80     99.00     99.00
10  2 23 18     15.0 1   356.0      1.00     12.30     99.00     99.00
10  2 23 19     15.0 1   295.0      1.00     11.80     99.00     99.00
10  2 23 20     15.0 1   282.0      0.50     11.40     99.00     99.00
10  2 23 21     15.0 1   332.0      1.00     11.10     99.00     99.00
10  2 23 22     15.0 1   330.0      1.50     10.90     99.00     99.00
10  2 23 23     15.0 1   348.0      1.50     10.80     99.00     99.00
10  2 23 24     15.0 1     3.0      1.50     10.60     99.00     99.00
10  2 24  1     15.0 1   343.0      1.00     10.50     99.00     99.00
10  2 24  2     15.0 1   322.0      0.50     10.30     99.00     99.00
10  2 24  3     15.0 1   312.0      1.50     10.10     99.00     99.00
10  2 24  4     15.0 1   291.0      2.60     10.00     99.00     99.00
10  2 24  5     15.0 1   294.0      2.60      9.40     99.00     99.00
10  2 24  6     15.0 1   317.0      2.10      8.60     99.00     99.00
10  2 24  7     15.0 1     6.0      2.10      8.30     99.00     99.00
10  2 24  8     15.0 1    49.0      1.50      8.10     99.00     99.00
10  2 24  9     15.0 1    91.0      1.50      8.10     99.00     99.00
10  2 24 10     15.0 1   132.0      1.00      8.50     99.00     99.00
10  2 24 11     15.0 1   150.0      1.00      9.00     99.00     99.00
10  2 24 12     15.0 1   129.0      1.00      9.40     99.00     99.00
10  2 24 13     15.0 1    91.0      0.50      9.80     99.00     99.00
10  2 24 14     15.0 1   105.0      0.50     11.50     99.00     99.00
10  2 24 15     15.0 1    85.0      0.50     12.60     99.00     99.00
10  2 24 16     15.0 1   103.0      1.00     13.40     99.00     99.00
10  2 24 17     15.0 1   112.0      2.60     13.10     99.00     99.00
10  2 24 18     15.0 1   144.0      3.10     12.10     99.00     99.00
10  2 24 19     15.0 1   164.0      3.10     11.30     99.00     99.00
10  2 24 20     15.0 1   164.0      2.60     11.10     99.00     99.00
10  2 24 21     15.0 1   161.0      1.50     10.90     99.00     99.00
10  2 24 22     15.0 1   115.0      0.50     10.60     99.00     99.00
10  2 24 23     15.0 1     0.0      0.00     10.30     99.00     99.00
10  2 24 24     15.0 1   317.0      1.00     10.10     99.00     99.00
10  2 25  1     15.0 1   324.0      2.10     10.40     99.00     99.00
10  2 25  2     15.0 1   325.0      3.10     10.40     99.00     99.00
10  2 25  3     15.0 1   308.0      3.10     10.30     99.00     99.00
10  2 25  4     15.0 1   307.0      3.10     10.10     99.00     99.00
10  2 25  5     15.0 1   325.0      2.60     10.10     99.00     99.00
10  2 25  6     15.0 1   333.0      3.10     10.10     99.00     99.00
10  2 25  7     15.0 1   342.0      3.60     10.00     99.00     99.00
10  2 25  8     15.0 1   343.0      3.60      9.90     99.00     99.00
10  2 25  9     15.0 1   342.0      3.10      9.80     99.00     99.00
10  2 25 10     15.0 1   336.0      2.60     10.40     99.00     99.00
10  2 25 11     15.0 1   343.0      1.50     11.30     99.00     99.00
10  2 25 12     15.0 1     0.0      0.00     12.60     99.00     99.00
10  2 25 13     15.0 1     0.0      0.00     14.10     99.00     99.00
10  2 25 14     15.0 1     0.0      0.00     15.10     99.00     99.00
10  2 25 15     15.0 1   345.0      1.00     15.60     99.00     99.00
10  2 25 16     15.0 1     0.0      0.00     15.60     99.00     99.00
10  2 25 17     15.0 1    18.0      2.10     15.10     99.00     99.00
10  2 25 18     15.0 1    41.0      3.10     13.60     99.00     99.00
10  2 25 19     15.0 1    48.0      3.60     12.50     99.00     99.00
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10  2 25 20    15.0 1    77.0     2.60    11.90    99.00    99.00
10  2 25 21    15.0 1    90.0     1.50    11.40    99.00    99.00
10  2 25 22    15.0 1     0.0     0.00    11.00    99.00    99.00
10  2 25 23    15.0 1     0.0     0.00    10.60    99.00    99.00
10  2 25 24    15.0 1     0.0     0.00    10.60    99.00    99.00
10  2 26  1    15.0 1    81.0     0.50    10.60    99.00    99.00
10  2 26  2    15.0 1    88.0     0.50    10.40    99.00    99.00
10  2 26  3    15.0 1   100.0     0.50    10.10    99.00    99.00
10  2 26  4    15.0 1   122.0     0.50    10.10    99.00    99.00
10  2 26  5    15.0 1   145.0     1.00    10.10    99.00    99.00
10  2 26  6    15.0 1   160.0     1.50    10.60    99.00    99.00
10  2 26  7    15.0 1   183.0     2.60    11.50    99.00    99.00
10  2 26  8    15.0 1   182.0     3.60    12.40    99.00    99.00
10  2 26  9    15.0 1   159.0     4.10    13.10    99.00    99.00
10  2 26 10    15.0 1   151.0     4.10    14.60    99.00    99.00
10  2 26 11    15.0 1   150.0     4.10    16.60    99.00    99.00
10  2 26 12    15.0 1   150.0     3.10    18.10    99.00    99.00
10  2 26 13    15.0 1   128.0     3.60    19.10    99.00    99.00
10  2 26 14    15.0 1   121.0     5.10    19.10    99.00    99.00
10  2 26 15    15.0 1   116.0     6.70    17.60    99.00    99.00
10  2 26 16    15.0 1   122.0     6.70    16.50    99.00    99.00
10  2 26 17    15.0 1   117.0     6.70    15.80    99.00    99.00
10  2 26 18    15.0 1   144.0     6.70    15.10    99.00    99.00
10  2 26 19    15.0 1   143.0     6.70    14.90    99.00    99.00
10  2 26 20    15.0 1   144.0     5.70    14.80    99.00    99.00
10  2 26 21    15.0 1   145.0     5.70    14.60    99.00    99.00
10  2 26 22    15.0 1   141.0     5.10    14.40    99.00    99.00
10  2 26 23    15.0 1   145.0     5.10    14.00    99.00    99.00
10  2 26 24    15.0 1   144.0     5.10    13.60    99.00    99.00
10  2 27  1    15.0 1   138.0     5.10    13.50    99.00    99.00
10  2 27  2    15.0 1   137.0     5.10    13.50    99.00    99.00
10  2 27  3    15.0 1   143.0     5.10    13.50    99.00    99.00
10  2 27  4    15.0 1   142.0     5.10    13.60    99.00    99.00
10  2 27  5    15.0 1   155.0     4.60    13.60    99.00    99.00
10  2 27  6    15.0 1   154.0     4.10    13.60    99.00    99.00
10  2 27  7    15.0 1   173.0     3.60    13.40    99.00    99.00
10  2 27  8    15.0 1   193.0     3.60    13.10    99.00    99.00
10  2 27  9    15.0 1   185.0     2.10    13.10    99.00    99.00
10  2 27 10    15.0 1   219.0     1.00    13.30    99.00    99.00
10  2 27 11    15.0 1   311.0     3.60    13.80    99.00    99.00
10  2 27 12    15.0 1   339.0     2.60    14.40    99.00    99.00
10  2 27 13    15.0 1    18.0     1.50    14.90    99.00    99.00
10  2 27 14    15.0 1    55.0     1.50    15.10    99.00    99.00
10  2 27 15    15.0 1    75.0     1.50    15.10    99.00    99.00
10  2 27 16    15.0 1   115.0     1.00    14.90    99.00    99.00
10  2 27 17    15.0 1   256.0     1.50    14.40    99.00    99.00
10  2 27 18    15.0 1   301.0     2.60    13.50    99.00    99.00
10  2 27 19    15.0 1   288.0     1.50    13.00    99.00    99.00
10  2 27 20    15.0 1    39.0     3.10    12.30    99.00    99.00
10  2 27 21    15.0 1    66.0     5.10    11.10    99.00    99.00
10  2 27 22    15.0 1    25.0     1.00    11.10    99.00    99.00
10  2 27 23    15.0 1     0.0     0.00    10.60    99.00    99.00
10  2 27 24    15.0 1   247.0     3.10    10.10    99.00    99.00
10  2 28  1    15.0 1   259.0     3.10     9.60    99.00    99.00
10  2 28  2    15.0 1   259.0     2.10     9.40    99.00    99.00
10  2 28  3    15.0 1   256.0     1.00     8.10    99.00    99.00
10  2 28  4    15.0 1   277.0     1.00     7.50    99.00    99.00
10  2 28  5    15.0 1   290.0     0.50     7.10    99.00    99.00
10  2 28  6    15.0 1   249.0     0.50     6.80    99.00    99.00
10  2 28  7    15.0 1   246.0     0.50     6.50    99.00    99.00
10  2 28  8    15.0 1   330.0     0.50     7.50    99.00    99.00
10  2 28  9    15.0 1     0.0     0.00     9.10    99.00    99.00
10  2 28 10    15.0 1     0.0     0.00    11.40    99.00    99.00
10  2 28 11    15.0 1     0.0     0.00    13.10    99.00    99.00
10  2 28 12    15.0 1   289.0     0.50    14.60    99.00    99.00
10  2 28 13    15.0 1   290.0     0.50    15.80    99.00    99.00
10  2 28 14    15.0 1   295.0     0.50    16.60    99.00    99.00
10  2 28 15    15.0 1   322.0     0.50    17.00    99.00    99.00
10  2 28 16    15.0 1   349.0     1.50    17.00    99.00    99.00
10  2 28 17    15.0 1     0.0     0.00    16.50    99.00    99.00
10  2 28 18    15.0 1    23.0     1.50    15.60    99.00    99.00
10  2 28 19    15.0 1    47.0     1.00    14.80    99.00    99.00
10  2 28 20    15.0 1    80.0     1.00    13.90    99.00    99.00
10  2 28 21    15.0 1    89.0     0.50    13.10    99.00    99.00
10  2 28 22    15.0 1    95.0     0.50    12.60    99.00    99.00
10  2 28 23    15.0 1     0.0     0.00    12.10    99.00    99.00
10  2 28 24    15.0 1     0.0     0.00    11.50    99.00    99.00
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10  3  1  1    15.0 1     0.0     0.00    11.10    99.00    99.00
10  3  1  2    15.0 1   279.0     0.50    11.00    99.00    99.00
10  3  1  3    15.0 1   298.0     1.00    11.00    99.00    99.00
10  3  1  4    15.0 1   317.0     1.50    10.90    99.00    99.00
10  3  1  5    15.0 1   314.0     1.50    10.60    99.00    99.00
10  3  1  6    15.0 1   308.0     1.50    10.50    99.00    99.00
10  3  1  7    15.0 1   315.0     2.10    10.30    99.00    99.00
10  3  1  8    15.0 1   312.0     2.10    10.30    99.00    99.00
10  3  1  9    15.0 1   318.0     2.60    11.40    99.00    99.00
10  3  1 10    15.0 1   314.0     2.60    12.10    99.00    99.00
10  3  1 11    15.0 1   334.0     2.10    13.10    99.00    99.00
10  3  1 12    15.0 1   327.0     1.50    14.10    99.00    99.00
10  3  1 13    15.0 1   335.0     1.50    15.00    99.00    99.00
10  3  1 14    15.0 1   355.0     1.50    15.60    99.00    99.00
10  3  1 15    15.0 1    14.0     2.10    15.60    99.00    99.00
10  3  1 16    15.0 1    35.0     2.10    15.60    99.00    99.00
10  3  1 17    15.0 1    31.0     2.60    15.10    99.00    99.00
10  3  1 18    15.0 1    35.0     1.50    14.60    99.00    99.00
10  3  1 19    15.0 1   329.0     1.00    14.00    99.00    99.00
10  3  1 20    15.0 1   299.0     1.00    13.50    99.00    99.00
10  3  1 21    15.0 1   309.0     1.50    13.30    99.00    99.00
10  3  1 22    15.0 1   329.0     1.50    13.10    99.00    99.00
10  3  1 23    15.0 1   353.0     2.10    13.00    99.00    99.00
10  3  1 24    15.0 1     0.0     0.00    12.60    99.00    99.00
10  3  2  1    15.0 1     0.0     0.00    12.40    99.00    99.00
10  3  2  2    15.0 1   359.0     3.10    11.60    99.00    99.00
10  3  2  3    15.0 1     0.0     0.00    11.00    99.00    99.00
10  3  2  4    15.0 1    10.0     2.10    10.50    99.00    99.00
10  3  2  5    15.0 1    20.0     2.10    10.10    99.00    99.00
10  3  2  6    15.0 1    25.0     2.60    10.00    99.00    99.00
10  3  2  7    15.0 1    36.0     2.10     9.90    99.00    99.00
10  3  2  8    15.0 1    75.0     2.10    10.00    99.00    99.00
10  3  2  9    15.0 1   123.0     0.50    12.10    99.00    99.00
10  3  2 10    15.0 1     0.0     0.00    13.90    99.00    99.00
10  3  2 11    15.0 1     0.0     0.00    15.60    99.00    99.00
10  3  2 12    15.0 1     0.0     0.00    16.60    99.00    99.00
10  3  2 13    15.0 1     0.0     0.00    17.60    99.00    99.00
10  3  2 14    15.0 1   306.0     0.50    18.10    99.00    99.00
10  3  2 15    15.0 1   296.0     2.10    18.10    99.00    99.00
10  3  2 16    15.0 1   288.0     2.60    17.90    99.00    99.00
10  3  2 17    15.0 1   290.0     3.60    17.10    99.00    99.00
10  3  2 18    15.0 1   296.0     4.10    16.10    99.00    99.00
10  3  2 19    15.0 1   293.0     3.60    15.40    99.00    99.00
10  3  2 20    15.0 1   268.0     4.60    14.40    99.00    99.00
10  3  2 21    15.0 1   265.0     4.60    12.40    99.00    99.00
10  3  2 22    15.0 1   274.0     3.60    11.10    99.00    99.00
10  3  2 23    15.0 1   280.0     2.60    10.80    99.00    99.00
10  3  2 24    15.0 1   289.0     1.00    10.40    99.00    99.00
10  3  3  1    15.0 1    79.0     0.50    10.10    99.00    99.00
10  3  3  2    15.0 1    78.0     0.50     9.90    99.00    99.00
10  3  3  3    15.0 1   249.0     0.50     9.50    99.00    99.00
10  3  3  4    15.0 1   233.0     0.50     9.00    99.00    99.00
10  3  3  5    15.0 1   225.0     1.50     8.50    99.00    99.00
10  3  3  6    15.0 1   224.0     2.10     8.10    99.00    99.00
10  3  3  7    15.0 1   229.0     2.10     7.60    99.00    99.00
10  3  3  8    15.0 1   228.0     1.50     8.10    99.00    99.00
10  3  3  9    15.0 1   223.0     0.50    10.10    99.00    99.00
10  3  3 10    15.0 1     0.0     0.00    12.10    99.00    99.00
10  3  3 11    15.0 1   107.0     0.50    13.60    99.00    99.00
10  3  3 12    15.0 1     0.0     0.00    14.60    99.00    99.00
10  3  3 13    15.0 1   226.0     0.50    15.10    99.00    99.00
10  3  3 14    15.0 1   236.0     1.50    15.30    99.00    99.00
10  3  3 15    15.0 1   233.0     2.10    15.40    99.00    99.00
10  3  3 16    15.0 1   273.0     3.10    14.50    99.00    99.00
10  3  3 17    15.0 1   272.0     1.50    13.40    99.00    99.00
10  3  3 18    15.0 1   169.0     1.00    13.10    99.00    99.00
10  3  3 19    15.0 1   263.0     2.60    13.00    99.00    99.00
10  3  3 20    15.0 1   266.0     4.60    12.30    99.00    99.00
10  3  3 21    15.0 1   282.0     4.60    11.30    99.00    99.00
10  3  3 22    15.0 1   278.0     4.10    10.30    99.00    99.00
10  3  3 23    15.0 1   291.0     3.60     9.50    99.00    99.00
10  3  3 24    15.0 1   285.0     3.60     8.80    99.00    99.00
10  3  4  1    15.0 1   280.0     3.60     8.00    99.00    99.00
10  3  4  2    15.0 1   285.0     3.60     7.60    99.00    99.00
10  3  4  3    15.0 1   293.0     3.60     7.60    99.00    99.00
10  3  4  4    15.0 1   286.0     3.60     7.60    99.00    99.00
10  3  4  5    15.0 1   298.0     3.10     7.60    99.00    99.00
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10  3  4  6    15.0 1   296.0     2.10     7.60    99.00    99.00
10  3  4  7    15.0 1   287.0     2.10     7.40    99.00    99.00
10  3  4  8    15.0 1   299.0     4.10     8.30    99.00    99.00
10  3  4  9    15.0 1   307.0     3.10     9.40    99.00    99.00
10  3  4 10    15.0 1   314.0     3.10    10.60    99.00    99.00
10  3  4 11    15.0 1   310.0     2.60    11.30    99.00    99.00
10  3  4 12    15.0 1   316.0     2.10    12.30    99.00    99.00
10  3  4 13    15.0 1   333.0     2.60    13.10    99.00    99.00
10  3  4 14    15.0 1   338.0     3.10    13.60    99.00    99.00
10  3  4 15    15.0 1   353.0     3.10    14.00    99.00    99.00
10  3  4 16    15.0 1   359.0     3.60    14.00    99.00    99.00
10  3  4 17    15.0 1    14.0     2.60    13.80    99.00    99.00
10  3  4 18    15.0 1    14.0     2.10    13.10    99.00    99.00
10  3  4 19    15.0 1    23.0     2.10    12.10    99.00    99.00
10  3  4 20    15.0 1    58.0     1.50    11.10    99.00    99.00
10  3  4 21    15.0 1    89.0     2.60    10.10    99.00    99.00
10  3  4 22    15.0 1   110.0     3.60     8.90    99.00    99.00
10  3  4 23    15.0 1   129.0     3.60     8.00    99.00    99.00
10  3  4 24    15.0 1   137.0     3.60     7.50    99.00    99.00
10  3  5  1    15.0 1   140.0     3.10     7.10    99.00    99.00
10  3  5  2    15.0 1   140.0     2.10     6.60    99.00    99.00
10  3  5  3    15.0 1   136.0     1.50     6.10    99.00    99.00
10  3  5  4    15.0 1   117.0     1.50     5.60    99.00    99.00
10  3  5  5    15.0 1   110.0     1.00     5.10    99.00    99.00
10  3  5  6    15.0 1     0.0     0.00     4.60    99.00    99.00
10  3  5  7    15.0 1     0.0     0.00     4.10    99.00    99.00
10  3  5  8    15.0 1     0.0     0.00     5.90    99.00    99.00
10  3  5  9    15.0 1     0.0     0.00     8.60    99.00    99.00
10  3  5 10    15.0 1     0.0     0.00    10.60    99.00    99.00
10  3  5 11    15.0 1     0.0     0.00    12.10    99.00    99.00
10  3  5 12    15.0 1     0.0     0.00    13.50    99.00    99.00
10  3  5 13    15.0 1     0.0     0.00    14.60    99.00    99.00
10  3  5 14    15.0 1   324.0     0.50    15.30    99.00    99.00
10  3  5 15    15.0 1   330.0     1.00    15.50    99.00    99.00
10  3  5 16    15.0 1   351.0     2.10    15.30    99.00    99.00
10  3  5 17    15.0 1   359.0     3.10    14.50    99.00    99.00
10  3  5 18    15.0 1    13.0     3.10    13.50    99.00    99.00
10  3  5 19    15.0 1     9.0     2.60    12.80    99.00    99.00
10  3  5 20    15.0 1   344.0     1.50    12.40    99.00    99.00
10  3  5 21    15.0 1   296.0     2.10    12.10    99.00    99.00
10  3  5 22    15.0 1   298.0     3.10    11.60    99.00    99.00
10  3  5 23    15.0 1   304.0     3.10    11.10    99.00    99.00
10  3  5 24    15.0 1   307.0     2.60    10.60    99.00    99.00
10  3  6  1    15.0 1   316.0     2.10    10.50    99.00    99.00
10  3  6  2    15.0 1   330.0     1.50    10.30    99.00    99.00
10  3  6  3    15.0 1   330.0     0.50    10.10    99.00    99.00
10  3  6  4    15.0 1   267.0     0.50     9.90    99.00    99.00
10  3  6  5    15.0 1   260.0     0.50     9.60    99.00    99.00
10  3  6  6    15.0 1   291.0     1.00     9.60    99.00    99.00
10  3  6  7    15.0 1   320.0     1.50     9.40    99.00    99.00
10  3  6  8    15.0 1   345.0     1.50     9.50    99.00    99.00
10  3  6  9    15.0 1   348.0     1.50    10.60    99.00    99.00
10  3  6 10    15.0 1   341.0     1.50    11.80    99.00    99.00
10  3  6 11    15.0 1   348.0     1.50    13.40    99.00    99.00
10  3  6 12    15.0 1   360.0     2.60    14.90    99.00    99.00
10  3  6 13    15.0 1    12.0     3.60    16.00    99.00    99.00
10  3  6 14    15.0 1   357.0     4.60    16.40    99.00    99.00
10  3  6 15    15.0 1   341.0     5.10    15.80    99.00    99.00
10  3  6 16    15.0 1   339.0     4.60    11.60    99.00    99.00
10  3  6 17    15.0 1   351.0     4.10    11.10    99.00    99.00
10  3  6 18    15.0 1     9.0     3.60    11.00    99.00    99.00
10  3  6 19    15.0 1    26.0     4.10    10.80    99.00    99.00
10  3  6 20    15.0 1    25.0     2.60    10.60    99.00    99.00
10  3  6 21    15.0 1   337.0     1.00    10.60    99.00    99.00
10  3  6 22    15.0 1   300.0     1.50    10.40    99.00    99.00
10  3  6 23    15.0 1   302.0     2.10    10.10    99.00    99.00
10  3  6 24    15.0 1   310.0     1.50     9.80    99.00    99.00
10  3  7  1    15.0 1     0.0     0.00     9.60    99.00    99.00
10  3  7  2    15.0 1   182.0     0.50     9.50    99.00    99.00
10  3  7  3    15.0 1   241.0     0.50     9.40    99.00    99.00
10  3  7  4    15.0 1   286.0     1.00     9.50    99.00    99.00
10  3  7  5    15.0 1   327.0     2.10     9.50    99.00    99.00
10  3  7  6    15.0 1   351.0     3.10     9.50    99.00    99.00
10  3  7  7    15.0 1     0.0     0.00     9.50    99.00    99.00
10  3  7  8    15.0 1    11.0     2.60     9.80    99.00    99.00
10  3  7  9    15.0 1    16.0     2.10    10.60    99.00    99.00
10  3  7 10    15.0 1     8.0     1.00    11.80    99.00    99.00
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10  3  7 11    15.0 1    0.0     0.00    13.60    99.00    99.00
10  3  7 12    15.0 1  273.0     0.50    14.90    99.00    99.00
10  3  7 13    15.0 1  279.0     1.00    16.00    99.00    99.00
10  3  7 14    15.0 1  302.0     1.00    16.90    99.00    99.00
10  3  7 15    15.0 1  328.0     1.50    17.50    99.00    99.00
10  3  7 16    15.0 1    0.0     0.00    17.60    99.00    99.00
10  3  7 17    15.0 1   32.0     2.60    17.10    99.00    99.00
10  3  7 18    15.0 1   62.0     3.10    16.10    99.00    99.00
10  3  7 19    15.0 1  101.0     3.10    14.60    99.00    99.00
10  3  7 20    15.0 1  129.0     3.10    13.40    99.00    99.00
10  3  7 21    15.0 1  138.0     3.10    12.50    99.00    99.00
10  3  7 22    15.0 1  120.0     1.50    11.60    99.00    99.00
10  3  7 23    15.0 1  315.0     1.00    10.60    99.00    99.00
10  3  7 24    15.0 1  310.0     3.10     9.90    99.00    99.00
10  3  8  1    15.0 1  312.0     4.60     9.30    99.00    99.00
10  3  8  2    15.0 1  308.0     3.60     8.80    99.00    99.00
10  3  8  3    15.0 1  298.0     2.10     8.80    99.00    99.00
10  3  8  4    15.0 1  276.0     1.50     9.10    99.00    99.00
10  3  8  5    15.0 1  302.0     1.00     9.10    99.00    99.00
10  3  8  6    15.0 1  314.0     1.50     9.10    99.00    99.00
10  3  8  7    15.0 1  318.0     2.10     9.10    99.00    99.00
10  3  8  8    15.0 1  310.0     2.10     9.30    99.00    99.00
10  3  8  9    15.0 1  300.0     2.60     9.60    99.00    99.00
10  3  8 10    15.0 1  324.0     4.10    10.80    99.00    99.00
10  3  8 11    15.0 1  331.0     3.60    11.90    99.00    99.00
10  3  8 12    15.0 1  330.0     3.60    12.60    99.00    99.00
10  3  8 13    15.0 1  333.0     3.10    13.30    99.00    99.00
10  3  8 14    15.0 1  325.0     3.60    13.40    99.00    99.00
10  3  8 15    15.0 1  321.0     4.10    13.30    99.00    99.00
10  3  8 16    15.0 1  332.0     4.10    13.00    99.00    99.00
10  3  8 17    15.0 1  329.0     3.10    12.60    99.00    99.00
10  3  8 18    15.0 1  334.0     4.10    11.60    99.00    99.00
10  3  8 19    15.0 1  344.0     4.10    10.90    99.00    99.00
10  3  8 20    15.0 1  300.0     3.10    10.60    99.00    99.00
10  3  8 21    15.0 1  281.0     4.10    10.30    99.00    99.00
10  3  8 22    15.0 1  276.0     4.60     8.90    99.00    99.00
10  3  8 23    15.0 1  277.0     4.60     7.30    99.00    99.00
10  3  8 24    15.0 1  284.0     4.60     6.50    99.00    99.00
10  3  9  1    15.0 1  289.0     4.60     6.30    99.00    99.00
10  3  9  2    15.0 1  293.0     4.60     6.50    99.00    99.00
10  3  9  3    15.0 1  288.0     4.60     6.50    99.00    99.00
10  3  9  4    15.0 1  302.0     5.10     6.40    99.00    99.00
10  3  9  5    15.0 1  310.0     5.10     5.50    99.00    99.00
10  3  9  6    15.0 1  312.0     4.10     4.60    99.00    99.00
10  3  9  7    15.0 1  315.0     3.10     4.10    99.00    99.00
10  3  9  8    15.0 1  340.0     6.70     5.90    99.00    99.00
10  3  9  9    15.0 1  342.0     6.20     7.10    99.00    99.00
10  3  9 10    15.0 1  336.0     6.20     8.10    99.00    99.00
10  3  9 11    15.0 1  335.0     6.20     9.30    99.00    99.00
10  3  9 12    15.0 1  326.0     6.70    10.30    99.00    99.00
10  3  9 13    15.0 1  332.0     7.20    11.10    99.00    99.00
10  3  9 14    15.0 1  334.0     7.20    11.60    99.00    99.00
10  3  9 15    15.0 1  330.0     7.20    12.10    99.00    99.00
10  3  9 16    15.0 1  334.0     7.70    12.10    99.00    99.00
10  3  9 17    15.0 1  335.0     4.60    11.30    99.00    99.00
10  3  9 18    15.0 1  345.0     4.60     9.80    99.00    99.00
10  3  9 19    15.0 1  326.0     4.10     8.50    99.00    99.00
10  3  9 20    15.0 1  326.0     4.10     7.80    99.00    99.00
10  3  9 21    15.0 1  318.0     3.60     7.40    99.00    99.00
10  3  9 22    15.0 1  307.0     3.10     7.10    99.00    99.00
10  3  9 23    15.0 1  297.0     2.60     6.60    99.00    99.00
10  3  9 24    15.0 1  298.0     2.60     6.00    99.00    99.00
10  3 10  1    15.0 1  289.0     2.60     5.40    99.00    99.00
10  3 10  2    15.0 1  290.0     2.60     4.90    99.00    99.00
10  3 10  3    15.0 1  289.0     2.10     4.40    99.00    99.00
10  3 10  4    15.0 1  290.0     1.50     4.10    99.00    99.00
10  3 10  5    15.0 1  307.0     1.00     3.60    99.00    99.00
10  3 10  6    15.0 1    0.0     0.00     3.30    99.00    99.00
10  3 10  7    15.0 1    0.0     0.00     2.90    99.00    99.00
10  3 10  8    15.0 1    0.0     0.00     4.60    99.00    99.00
10  3 10  9    15.0 1  325.0     0.50     6.90    99.00    99.00
10  3 10 10    15.0 1  330.0     1.50     8.60    99.00    99.00
10  3 10 11    15.0 1  322.0     3.10    10.10    99.00    99.00
10  3 10 12    15.0 1  335.0     3.60    11.30    99.00    99.00
10  3 10 13    15.0 1  329.0     5.10    12.10    99.00    99.00
10  3 10 14    15.0 1  336.0     6.20    12.80    99.00    99.00
10  3 10 15    15.0 1  340.0     6.70    13.00    99.00    99.00
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10  3 10 16    15.0 1   328.0     6.70    12.90    99.00    99.00
10  3 10 17    15.0 1   328.0     3.60    12.40    99.00    99.00
10  3 10 18    15.0 1   334.0     3.60    11.30    99.00    99.00
10  3 10 19    15.0 1   326.0     3.10    10.50    99.00    99.00
10  3 10 20    15.0 1   329.0     2.10     9.60    99.00    99.00
10  3 10 21    15.0 1   336.0     0.50     9.00    99.00    99.00
10  3 10 22    15.0 1   327.0     0.50     8.30    99.00    99.00
10  3 10 23    15.0 1   288.0     1.00     7.60    99.00    99.00
10  3 10 24    15.0 1   279.0     1.50     6.80    99.00    99.00
10  3 11  1    15.0 1   282.0     1.50     6.10    99.00    99.00
10  3 11  2    15.0 1   261.0     1.00     5.50    99.00    99.00
10  3 11  3    15.0 1   220.0     1.50     4.90    99.00    99.00
10  3 11  4    15.0 1   244.0     1.50     4.40    99.00    99.00
10  3 11  5    15.0 1   275.0     2.60     4.10    99.00    99.00
10  3 11  6    15.0 1   292.0     2.60     3.80    99.00    99.00
10  3 11  7    15.0 1   287.0     1.50     3.50    99.00    99.00
10  3 11  8    15.0 1   302.0     1.50     5.10    99.00    99.00
10  3 11  9    15.0 1   238.0     0.50     6.90    99.00    99.00
10  3 11 10    15.0 1   254.0     1.00     8.60    99.00    99.00
10  3 11 11    15.0 1   278.0     1.00    10.40    99.00    99.00
10  3 11 12    15.0 1   303.0     1.00    12.10    99.00    99.00
10  3 11 13    15.0 1   307.0     1.00    13.40    99.00    99.00
10  3 11 14    15.0 1   327.0     1.50    14.40    99.00    99.00
10  3 11 15    15.0 1   345.0     1.50    15.00    99.00    99.00
10  3 11 16    15.0 1   354.0     1.50    15.10    99.00    99.00
10  3 11 17    15.0 1   349.0     1.50    15.00    99.00    99.00
10  3 11 18    15.0 1   356.0     1.50    14.30    99.00    99.00
10  3 11 19    15.0 1     0.0     0.00    13.10    99.00    99.00
10  3 11 20    15.0 1     0.0     0.00    11.80    99.00    99.00
10  3 11 21    15.0 1     0.0     0.00    10.50    99.00    99.00
10  3 11 22    15.0 1     0.0     0.00     9.50    99.00    99.00
10  3 11 23    15.0 1     0.0     0.00     8.90    99.00    99.00
10  3 11 24    15.0 1     0.0     0.00     8.30    99.00    99.00
10  3 12  1    15.0 1    80.0     0.50     7.90    99.00    99.00
10  3 12  2    15.0 1    77.0     0.50     7.60    99.00    99.00
10  3 12  3    15.0 1   100.0     0.50     7.40    99.00    99.00
10  3 12  4    15.0 1     0.0     0.00     7.30    99.00    99.00
10  3 12  5    15.0 1     0.0     0.00     7.10    99.00    99.00
10  3 12  6    15.0 1     0.0     0.00     7.10    99.00    99.00
10  3 12  7    15.0 1     0.0     0.00     7.10    99.00    99.00
10  3 12  8    15.0 1     0.0     0.00     7.30    99.00    99.00
10  3 12  9    15.0 1     0.0     0.00     9.60    99.00    99.00
10  3 12 10    15.0 1     0.0     0.00    12.10    99.00    99.00
10  3 12 11    15.0 1     0.0     0.00    14.00    99.00    99.00
10  3 12 12    15.0 1   304.0     1.50    14.90    99.00    99.00
10  3 12 13    15.0 1   320.0     4.10    14.60    99.00    99.00
10  3 12 14    15.0 1   339.0     3.60    13.10    99.00    99.00
10  3 12 15    15.0 1     0.0     0.00    12.10    99.00    99.00
10  3 12 16    15.0 1    23.0     3.60    11.30    99.00    99.00
10  3 12 17    15.0 1    32.0     3.10    10.80    99.00    99.00
10  3 12 18    15.0 1    35.0     2.60    10.60    99.00    99.00
10  3 12 19    15.0 1    14.0     1.50    10.40    99.00    99.00
10  3 12 20    15.0 1   351.0     1.00    10.10    99.00    99.00
10  3 12 21    15.0 1   347.0     1.00     9.80    99.00    99.00
10  3 12 22    15.0 1   307.0     0.50     9.80    99.00    99.00
10  3 12 23    15.0 1     0.0     0.00     9.90    99.00    99.00
10  3 12 24    15.0 1    60.0     0.50     9.90    99.00    99.00
10  3 13  1    15.0 1     6.0     0.50     9.60    99.00    99.00
10  3 13  2    15.0 1   289.0     0.50     9.80    99.00    99.00
10  3 13  3    15.0 1   277.0     2.10     9.80    99.00    99.00
10  3 13  4    15.0 1   288.0     3.60     9.30    99.00    99.00
10  3 13  5    15.0 1   299.0     4.10     8.50    99.00    99.00
10  3 13  6    15.0 1   322.0     5.10     8.10    99.00    99.00
10  3 13  7    15.0 1   327.0     6.20     8.10    99.00    99.00
10  3 13  8    15.0 1   333.0     6.70     8.30    99.00    99.00
10  3 13  9    15.0 1   328.0     6.70     9.10    99.00    99.00
10  3 13 10    15.0 1   334.0     6.20    11.10    99.00    99.00
10  3 13 11    15.0 1   327.0     6.20    12.10    99.00    99.00
10  3 13 12    15.0 1   328.0     6.20    12.90    99.00    99.00
10  3 13 13    15.0 1   329.0     5.70    13.50    99.00    99.00
10  3 13 14    15.0 1   327.0     5.70    13.90    99.00    99.00
10  3 13 15    15.0 1   333.0     5.70    14.10    99.00    99.00
10  3 13 16    15.0 1   328.0     5.70    14.10    99.00    99.00
10  3 13 17    15.0 1   318.0     3.10    13.90    99.00    99.00
10  3 13 18    15.0 1   322.0     3.60    13.10    99.00    99.00
10  3 13 19    15.0 1   312.0     3.10    12.30    99.00    99.00
10  3 13 20    15.0 1   312.0     2.60    11.60    99.00    99.00
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10  3 13 21    15.0 1   305.0     1.00    10.90    99.00    99.00
10  3 13 22    15.0 1   145.0     1.00    10.00    99.00    99.00
10  3 13 23    15.0 1   153.0     2.60     8.90    99.00    99.00
10  3 13 24    15.0 1   169.0     2.60     8.10    99.00    99.00
10  3 14  1    15.0 1   210.0     2.60     7.60    99.00    99.00
10  3 14  2    15.0 1   262.0     3.10     7.00    99.00    99.00
10  3 14  3    15.0 1   274.0     3.10     6.00    99.00    99.00
10  3 14  4    15.0 1   285.0     3.10     5.30    99.00    99.00
10  3 14  5    15.0 1   271.0     3.60     4.60    99.00    99.00
10  3 14  6    15.0 1   275.0     3.60     4.10    99.00    99.00
10  3 14  7    15.0 1   276.0     3.10     4.00    99.00    99.00
10  3 14  8    15.0 1   321.0     3.10     6.10    99.00    99.00
10  3 14  9    15.0 1   324.0     1.50     8.10    99.00    99.00
10  3 14 10    15.0 1   302.0     1.00     9.90    99.00    99.00
10  3 14 11    15.0 1   301.0     1.50    11.60    99.00    99.00
10  3 14 12    15.0 1   298.0     1.50    12.90    99.00    99.00
10  3 14 13    15.0 1   313.0     2.10    14.00    99.00    99.00
10  3 14 14    15.0 1   322.0     2.10    14.90    99.00    99.00
10  3 14 15    15.0 1   332.0     2.60    15.60    99.00    99.00
10  3 14 16    15.0 1   340.0     2.60    15.90    99.00    99.00
10  3 14 17    15.0 1   336.0     2.10    15.80    99.00    99.00
10  3 14 18    15.0 1   331.0     1.50    15.30    99.00    99.00
10  3 14 19    15.0 1   321.0     1.00    14.10    99.00    99.00
10  3 14 20    15.0 1   260.0     0.50    12.80    99.00    99.00
10  3 14 21    15.0 1   218.0     1.00    11.40    99.00    99.00
10  3 14 22    15.0 1   220.0     1.00    10.40    99.00    99.00
10  3 14 23    15.0 1   257.0     0.50     9.80    99.00    99.00
10  3 14 24    15.0 1   300.0     1.00     9.10    99.00    99.00
10  3 15  1    15.0 1   292.0     1.50     8.40    99.00    99.00
10  3 15  2    15.0 1   285.0     2.10     7.80    99.00    99.00
10  3 15  3    15.0 1   268.0     2.60     7.10    99.00    99.00
10  3 15  4    15.0 1   278.0     2.60     6.80    99.00    99.00
10  3 15  5    15.0 1   274.0     2.60     6.30    99.00    99.00
10  3 15  6    15.0 1   266.0     3.10     6.00    99.00    99.00
10  3 15  7    15.0 1   273.0     3.10     5.60    99.00    99.00
10  3 15  8    15.0 1   306.0     3.10     7.50    99.00    99.00
10  3 15  9    15.0 1   313.0     2.10     9.40    99.00    99.00
10  3 15 10    15.0 1   304.0     1.00    12.00    99.00    99.00
10  3 15 11    15.0 1   322.0     0.50    14.00    99.00    99.00
10  3 15 12    15.0 1   336.0     1.50    15.60    99.00    99.00
10  3 15 13    15.0 1   346.0     1.50    17.30    99.00    99.00
10  3 15 14    15.0 1     2.0     2.10    18.60    99.00    99.00
10  3 15 15    15.0 1     6.0     2.60    19.30    99.00    99.00
10  3 15 16    15.0 1    10.0     3.10    19.40    99.00    99.00
10  3 15 17    15.0 1    25.0     3.10    18.80    99.00    99.00
10  3 15 18    15.0 1    31.0     3.10    17.90    99.00    99.00
10  3 15 19    15.0 1    44.0     2.10    16.60    99.00    99.00
10  3 15 20    15.0 1     0.0     0.00    15.30    99.00    99.00
10  3 15 21    15.0 1     0.0     0.00    13.90    99.00    99.00
10  3 15 22    15.0 1     0.0     0.00    12.80    99.00    99.00
10  3 15 23    15.0 1    64.0     0.50    12.00    99.00    99.00
10  3 15 24    15.0 1     0.0     0.00    11.10    99.00    99.00
10  3 16  1    15.0 1    61.0     0.50    10.50    99.00    99.00
10  3 16  2    15.0 1    42.0     0.50    10.30    99.00    99.00
10  3 16  3    15.0 1    21.0     0.50    10.10    99.00    99.00
10  3 16  4    15.0 1     0.0     0.00    10.10    99.00    99.00
10  3 16  5    15.0 1   348.0     1.00     9.90    99.00    99.00
10  3 16  6    15.0 1   351.0     1.00     9.60    99.00    99.00
10  3 16  7    15.0 1   347.0     1.50     9.50    99.00    99.00
10  3 16  8    15.0 1   360.0     2.10    10.10    99.00    99.00
10  3 16  9    15.0 1   351.0     2.60    13.30    99.00    99.00
10  3 16 10    15.0 1   342.0     3.10    14.90    99.00    99.00
10  3 16 11    15.0 1   353.0     3.10    16.90    99.00    99.00
10  3 16 12    15.0 1   350.0     3.10    18.80    99.00    99.00
10  3 16 13    15.0 1   346.0     3.60    20.00    99.00    99.00
10  3 16 14    15.0 1   347.0     3.60    20.60    99.00    99.00
10  3 16 15    15.0 1     4.0     3.60    20.60    99.00    99.00
10  3 16 16    15.0 1     0.0     0.00    21.10    99.00    99.00
10  3 16 17    15.0 1     8.0     3.60    20.40    99.00    99.00
10  3 16 18    15.0 1    11.0     3.60    19.60    99.00    99.00
10  3 16 19    15.0 1     6.0     2.60    18.90    99.00    99.00
10  3 16 20    15.0 1   336.0     1.50    18.30    99.00    99.00
10  3 16 21    15.0 1   288.0     1.50    17.60    99.00    99.00
10  3 16 22    15.0 1   301.0     1.50    17.00    99.00    99.00
10  3 16 23    15.0 1   336.0     1.50    16.40    99.00    99.00
10  3 16 24    15.0 1     6.0     1.00    15.80    99.00    99.00
10  3 17  1    15.0 1   357.0     1.00    15.40    99.00    99.00
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```
10  3 17  2    15.0 1   320.0     1.50    15.00    99.00    99.00
10  3 17  3    15.0 1   307.0     2.10    14.60    99.00    99.00
10  3 17  4    15.0 1   314.0     2.60    14.10    99.00    99.00
10  3 17  5    15.0 1   312.0     2.60    13.80    99.00    99.00
10  3 17  6    15.0 1   297.0     2.10    13.40    99.00    99.00
10  3 17  7    15.0 1   296.0     1.50    13.00    99.00    99.00
10  3 17  8    15.0 1   309.0     1.50    13.30    99.00    99.00
10  3 17  9    15.0 1   319.0     2.10    14.80    99.00    99.00
10  3 17 10    15.0 1   314.0     1.00    16.60    99.00    99.00
10  3 17 11    15.0 1   314.0     1.00    18.80    99.00    99.00
10  3 17 12    15.0 1   306.0     1.50    20.30    99.00    99.00
10  3 17 13    15.0 1   318.0     2.10    21.40    99.00    99.00
10  3 17 14    15.0 1   335.0     2.10    22.40    99.00    99.00
10  3 17 15    15.0 1   341.0     2.60    22.80    99.00    99.00
10  3 17 16    15.0 1   352.0     3.60    22.60    99.00    99.00
10  3 17 17    15.0 1     1.0     3.10    21.90    99.00    99.00
10  3 17 18    15.0 1     0.0     0.00    21.00    99.00    99.00
10  3 17 19    15.0 1   348.0     1.50    20.10    99.00    99.00
10  3 17 20    15.0 1   290.0     1.50    19.00    99.00    99.00
10  3 17 21    15.0 1   277.0     2.10    18.00    99.00    99.00
10  3 17 22    15.0 1   291.0     3.10    17.10    99.00    99.00
10  3 17 23    15.0 1   298.0     3.10    16.10    99.00    99.00
10  3 17 24    15.0 1   308.0     2.60    15.30    99.00    99.00
10  3 18  1    15.0 1   317.0     2.10    14.60    99.00    99.00
10  3 18  2    15.0 1   332.0     1.50    14.10    99.00    99.00
10  3 18  3    15.0 1   315.0     1.00    13.60    99.00    99.00
10  3 18  4    15.0 1   281.0     1.00    13.10    99.00    99.00
10  3 18  5    15.0 1   278.0     1.00    12.60    99.00    99.00
10  3 18  6    15.0 1   284.0     1.00    12.50    99.00    99.00
10  3 18  7    15.0 1   283.0     0.50    12.40    99.00    99.00
10  3 18  8    15.0 1   334.0     1.00    13.30    99.00    99.00
10  3 18  9    15.0 1   353.0     1.50    15.30    99.00    99.00
10  3 18 10    15.0 1   339.0     1.00    17.10    99.00    99.00
10  3 18 11    15.0 1   323.0     1.00    18.60    99.00    99.00
10  3 18 12    15.0 1   320.0     1.00    19.90    99.00    99.00
10  3 18 13    15.0 1   323.0     1.50    21.00    99.00    99.00
10  3 18 14    15.0 1   331.0     2.60    21.80    99.00    99.00
10  3 18 15    15.0 1   335.0     3.10    22.10    99.00    99.00
10  3 18 16    15.0 1   344.0     3.60    22.10    99.00    99.00
10  3 18 17    15.0 1   330.0     2.60    22.00    99.00    99.00
10  3 18 18    15.0 1   307.0     2.10    21.50    99.00    99.00
10  3 18 19    15.0 1   303.0     2.60    20.40    99.00    99.00
10  3 18 20    15.0 1   287.0     2.60    19.40    99.00    99.00
10  3 18 21    15.0 1   279.0     2.60    18.40    99.00    99.00
10  3 18 22    15.0 1   262.0     1.50    17.10    99.00    99.00
10  3 18 23    15.0 1   234.0     1.50    16.10    99.00    99.00
10  3 18 24    15.0 1   188.0     2.10    14.60    99.00    99.00
10  3 19  1    15.0 1   215.0     1.50    13.60    99.00    99.00
10  3 19  2    15.0 1   262.0     1.50    12.60    99.00    99.00
10  3 19  3    15.0 1   277.0     2.10    12.10    99.00    99.00
10  3 19  4    15.0 1   273.0     2.60    11.40    99.00    99.00
10  3 19  5    15.0 1   270.0     3.10    10.60    99.00    99.00
10  3 19  6    15.0 1   258.0     3.60    10.00    99.00    99.00
10  3 19  7    15.0 1   272.0     3.10     9.90    99.00    99.00
10  3 19  8    15.0 1   315.0     3.10    11.80    99.00    99.00
10  3 19  9    15.0 1   287.0     1.50    13.60    99.00    99.00
10  3 19 10    15.0 1   262.0     0.50    16.10    99.00    99.00
10  3 19 11    15.0 1   252.0     1.00    18.00    99.00    99.00
10  3 19 12    15.0 1   249.0     1.00    19.50    99.00    99.00
10  3 19 13    15.0 1   274.0     0.50    20.60    99.00    99.00
10  3 19 14    15.0 1   290.0     0.50    21.60    99.00    99.00
10  3 19 15    15.0 1   318.0     0.50    22.30    99.00    99.00
10  3 19 16    15.0 1   333.0     1.00    22.60    99.00    99.00
10  3 19 17    15.0 1     2.0     1.50    22.40    99.00    99.00
10  3 19 18    15.0 1    11.0     1.00    21.40    99.00    99.00
10  3 19 19    15.0 1    34.0     0.50    19.80    99.00    99.00
10  3 19 20    15.0 1   173.0     0.50    18.10    99.00    99.00
10  3 19 21    15.0 1   158.0     1.00    16.60    99.00    99.00
10  3 19 22    15.0 1   141.0     1.50    15.60    99.00    99.00
10  3 19 23    15.0 1   121.0     2.10    14.80    99.00    99.00
10  3 19 24    15.0 1   118.0     2.60    14.10    99.00    99.00
10  3 20  1    15.0 1   134.0     3.60    13.60    99.00    99.00
10  3 20  2    15.0 1   148.0     3.10    13.60    99.00    99.00
10  3 20  3    15.0 1   182.0     1.50    13.40    99.00    99.00
10  3 20  4    15.0 1   241.0     0.50    12.60    99.00    99.00
10  3 20  5    15.0 1   313.0     1.00    11.80    99.00    99.00
10  3 20  6    15.0 1   337.0     1.50    11.00    99.00    99.00
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10  3 20  7    15.0 1   345.0     1.50    10.60    99.00    99.00
10  3 20  8    15.0 1   332.0     1.50    11.60    99.00    99.00
10  3 20  9    15.0 1   326.0     1.50    13.80    99.00    99.00
10  3 20 10    15.0 1   324.0     1.00    15.60    99.00    99.00
10  3 20 11    15.0 1   308.0     1.00    17.60    99.00    99.00
10  3 20 12    15.0 1   316.0     1.00    19.10    99.00    99.00
10  3 20 13    15.0 1   337.0     1.00    20.10    99.00    99.00
10  3 20 14    15.0 1   354.0     1.00    20.90    99.00    99.00
10  3 20 15    15.0 1     0.0     0.00    21.30    99.00    99.00
10  3 20 16    15.0 1     6.0     2.10    21.10    99.00    99.00
10  3 20 17    15.0 1     8.0     2.10    20.60    99.00    99.00
10  3 20 18    15.0 1     9.0     1.50    19.80    99.00    99.00
10  3 20 19    15.0 1   306.0     0.50    18.50    99.00    99.00
10  3 20 20    15.0 1   279.0     0.50    17.10    99.00    99.00
10  3 20 21    15.0 1   301.0     0.50    16.10    99.00    99.00
10  3 20 22    15.0 1   308.0     1.00    15.10    99.00    99.00
10  3 20 23    15.0 1   316.0     1.50    14.30    99.00    99.00
10  3 20 24    15.0 1   333.0     1.50    13.50    99.00    99.00
10  3 21  1    15.0 1     3.0     1.00    12.80    99.00    99.00
10  3 21  2    15.0 1     8.0     1.00    12.10    99.00    99.00
10  3 21  3    15.0 1     7.0     0.50    11.60    99.00    99.00
10  3 21  4    15.0 1   329.0     0.50    11.00    99.00    99.00
10  3 21  5    15.0 1   307.0     0.50    10.50    99.00    99.00
10  3 21  6    15.0 1   316.0     0.50    10.10    99.00    99.00
10  3 21  7    15.0 1   329.0     0.50     9.80    99.00    99.00
10  3 21  8    15.0 1   326.0     1.00    11.00    99.00    99.00
10  3 21  9    15.0 1   320.0     1.50    13.10    99.00    99.00
10  3 21 10    15.0 1   314.0     1.00    15.10    99.00    99.00
10  3 21 11    15.0 1   316.0     1.00    17.10    99.00    99.00
10  3 21 12    15.0 1   316.0     1.00    19.00    99.00    99.00
10  3 21 13    15.0 1   324.0     1.50    20.00    99.00    99.00
10  3 21 14    15.0 1   329.0     2.10    20.60    99.00    99.00
10  3 21 15    15.0 1   336.0     2.10    20.80    99.00    99.00
10  3 21 16    15.0 1   336.0     2.60    20.80    99.00    99.00
10  3 21 17    15.0 1   348.0     2.60    20.30    99.00    99.00
10  3 21 18    15.0 1     2.0     2.60    19.50    99.00    99.00
10  3 21 19    15.0 1   336.0     1.50    18.60    99.00    99.00
10  3 21 20    15.0 1   289.0     1.00    17.80    99.00    99.00
10  3 21 21    15.0 1   275.0     1.50    17.10    99.00    99.00
10  3 21 22    15.0 1   292.0     3.10    16.50    99.00    99.00
10  3 21 23    15.0 1   301.0     3.60    15.50    99.00    99.00
10  3 21 24    15.0 1   312.0     3.60    14.50    99.00    99.00
10  3 22  1    15.0 1   312.0     3.60    13.90    99.00    99.00
10  3 22  2    15.0 1   325.0     3.60    13.30    99.00    99.00
10  3 22  3    15.0 1   323.0     3.10    12.60    99.00    99.00
10  3 22  4    15.0 1   315.0     3.10    12.10    99.00    99.00
10  3 22  5    15.0 1   309.0     2.60    11.90    99.00    99.00
10  3 22  6    15.0 1   303.0     2.10    11.60    99.00    99.00
10  3 22  7    15.0 1   296.0     2.10    11.40    99.00    99.00
10  3 22  8    15.0 1   336.0     3.10    11.80    99.00    99.00
10  3 22  9    15.0 1   355.0     2.10    13.00    99.00    99.00
10  3 22 10    15.0 1   316.0     0.50    14.60    99.00    99.00
10  3 22 11    15.0 1   281.0     0.50    16.10    99.00    99.00
10  3 22 12    15.0 1   296.0     0.50    17.40    99.00    99.00
10  3 22 13    15.0 1   313.0     1.50    18.50    99.00    99.00
10  3 22 14    15.0 1   316.0     2.10    19.10    99.00    99.00
10  3 22 15    15.0 1   322.0     3.10    19.40    99.00    99.00
10  3 22 16    15.0 1   320.0     2.60    19.30    99.00    99.00
10  3 22 17    15.0 1   298.0     1.50    19.10    99.00    99.00
10  3 22 18    15.0 1   284.0     1.50    18.60    99.00    99.00
10  3 22 19    15.0 1   288.0     2.10    17.60    99.00    99.00
10  3 22 20    15.0 1   297.0     2.60    16.60    99.00    99.00
10  3 22 21    15.0 1   313.0     2.10    15.40    99.00    99.00
10  3 22 22    15.0 1   320.0     1.50    14.50    99.00    99.00
10  3 22 23    15.0 1   319.0     1.00    13.60    99.00    99.00
10  3 22 24    15.0 1   283.0     0.50    12.80    99.00    99.00
10  3 23  1    15.0 1   231.0     1.00    12.10    99.00    99.00
10  3 23  2    15.0 1   235.0     2.10    11.60    99.00    99.00
10  3 23  3    15.0 1   226.0     3.10    11.10    99.00    99.00
10  3 23  4    15.0 1   238.0     3.60    10.40    99.00    99.00
10  3 23  5    15.0 1   256.0     4.10     9.60    99.00    99.00
10  3 23  6    15.0 1   246.0     3.60     8.90    99.00    99.00
10  3 23  7    15.0 1   260.0     3.10     8.90    99.00    99.00
10  3 23  8    15.0 1   282.0     3.10    11.10    99.00    99.00
10  3 23  9    15.0 1   274.0     2.60    13.00    99.00    99.00
10  3 23 10    15.0 1   263.0     2.60    15.40    99.00    99.00
10  3 23 11    15.0 1   275.0     2.60    17.10    99.00    99.00
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10  3 23 12    15.0 1   280.0     2.10    18.80    99.00    99.00
10  3 23 13    15.0 1   288.0     2.10    20.10    99.00    99.00
10  3 23 14    15.0 1   308.0     1.50    21.30    99.00    99.00
10  3 23 15    15.0 1   322.0     1.50    21.90    99.00    99.00
10  3 23 16    15.0 1   337.0     2.10    22.10    99.00    99.00
10  3 23 17    15.0 1     7.0     2.10    21.60    99.00    99.00
10  3 23 18    15.0 1    35.0     3.10    20.80    99.00    99.00
10  3 23 19    15.0 1    36.0     3.10    19.40    99.00    99.00
10  3 23 20    15.0 1    62.0     1.50    18.10    99.00    99.00
10  3 23 21    15.0 1   223.0     0.50    16.40    99.00    99.00
10  3 23 22    15.0 1   238.0     1.00    15.10    99.00    99.00
10  3 23 23    15.0 1   313.0     0.50    14.10    99.00    99.00
10  3 23 24    15.0 1   335.0     1.00    13.30    99.00    99.00
10  3 24  1    15.0 1   347.0     0.50    12.80    99.00    99.00
10  3 24  2    15.0 1     0.0     0.00    12.30    99.00    99.00
10  3 24  3    15.0 1   226.0     1.00    11.90    99.00    99.00
10  3 24  4    15.0 1   265.0     1.50    11.50    99.00    99.00
10  3 24  5    15.0 1   272.0     2.10    11.10    99.00    99.00
10  3 24  6    15.0 1   268.0     2.10    10.80    99.00    99.00
10  3 24  7    15.0 1   257.0     1.50    10.60    99.00    99.00
10  3 24  8    15.0 1   279.0     1.50    11.30    99.00    99.00
10  3 24  9    15.0 1   314.0     0.50    12.90    99.00    99.00
10  3 24 10    15.0 1   276.0     0.50    15.10    99.00    99.00
10  3 24 11    15.0 1   255.0     0.50    17.30    99.00    99.00
10  3 24 12    15.0 1     0.0     0.00    18.60    99.00    99.00
10  3 24 13    15.0 1   303.0     0.50    19.60    99.00    99.00
10  3 24 14    15.0 1   317.0     1.50    20.40    99.00    99.00
10  3 24 15    15.0 1   345.0     1.50    20.80    99.00    99.00
10  3 24 16    15.0 1     0.0     0.00    20.60    99.00    99.00
10  3 24 17    15.0 1     0.0     0.00    20.10    99.00    99.00
10  3 24 18    15.0 1   332.0     2.10    19.50    99.00    99.00
10  3 24 19    15.0 1   295.0     4.10    18.80    99.00    99.00
10  3 24 20    15.0 1   294.0     5.10    16.10    99.00    99.00
10  3 24 21    15.0 1   286.0     4.60    13.80    99.00    99.00
10  3 24 22    15.0 1   294.0     4.10    12.40    99.00    99.00
10  3 24 23    15.0 1   292.0     3.60    11.60    99.00    99.00
10  3 24 24    15.0 1   288.0     2.10    11.30    99.00    99.00
10  3 25  1    15.0 1   236.0     1.00    10.80    99.00    99.00
10  3 25  2    15.0 1   219.0     2.10    10.40    99.00    99.00
10  3 25  3    15.0 1   222.0     2.60     9.90    99.00    99.00
10  3 25  4    15.0 1   222.0     2.60     9.60    99.00    99.00
10  3 25  5    15.0 1   249.0     2.10     9.50    99.00    99.00
10  3 25  6    15.0 1   266.0     1.50     9.10    99.00    99.00
10  3 25  7    15.0 1   309.0     1.00     9.10    99.00    99.00
10  3 25  8    15.0 1   328.0     0.50    10.30    99.00    99.00
10  3 25  9    15.0 1     0.0     0.00    11.40    99.00    99.00
10  3 25 10    15.0 1     0.0     0.00    12.30    99.00    99.00
10  3 25 11    15.0 1     0.0     0.00    13.10    99.00    99.00
10  3 25 12    15.0 1   302.0     1.00    14.30    99.00    99.00
10  3 25 13    15.0 1   325.0     1.50    15.50    99.00    99.00
10  3 25 14    15.0 1   326.0     2.10    16.40    99.00    99.00
10  3 25 15    15.0 1   344.0     3.10    17.10    99.00    99.00
10  3 25 16    15.0 1   355.0     4.10    17.40    99.00    99.00
10  3 25 17    15.0 1   353.0     3.60    17.30    99.00    99.00
10  3 25 18    15.0 1   347.0     3.60    16.50    99.00    99.00
10  3 25 19    15.0 1   345.0     4.10    14.90    99.00    99.00
10  3 25 20    15.0 1   342.0     4.10    13.50    99.00    99.00
10  3 25 21    15.0 1   339.0     4.10    12.50    99.00    99.00
10  3 25 22    15.0 1   342.0     3.60    12.10    99.00    99.00
10  3 25 23    15.0 1   344.0     4.10    11.40    99.00    99.00
10  3 25 24    15.0 1   327.0     4.10    10.60    99.00    99.00
10  3 26  1    15.0 1   318.0     4.10    10.00    99.00    99.00
10  3 26  2    15.0 1   323.0     4.10     9.50    99.00    99.00
10  3 26  3    15.0 1   320.0     4.10     8.90    99.00    99.00
10  3 26  4    15.0 1   316.0     3.60     8.40    99.00    99.00
10  3 26  5    15.0 1   318.0     3.10     8.00    99.00    99.00
10  3 26  6    15.0 1   307.0     1.50     7.60    99.00    99.00
10  3 26  7    15.0 1   274.0     0.50     7.60    99.00    99.00
10  3 26  8    15.0 1   349.0     3.10     9.60    99.00    99.00
10  3 26  9    15.0 1   354.0     2.60    11.10    99.00    99.00
10  3 26 10    15.0 1   348.0     1.50    12.60    99.00    99.00
10  3 26 11    15.0 1   338.0     1.00    14.10    99.00    99.00
10  3 26 12    15.0 1   316.0     1.00    15.30    99.00    99.00
10  3 26 13    15.0 1   334.0     1.50    16.30    99.00    99.00
10  3 26 14    15.0 1   339.0     2.10    17.30    99.00    99.00
10  3 26 15    15.0 1   345.0     3.10    17.90    99.00    99.00
10  3 26 16    15.0 1   342.0     4.60    17.90    99.00    99.00
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10  3 26 17    15.0 1   342.0     3.60    17.60    99.00    99.00
10  3 26 18    15.0 1   332.0     3.10    16.60    99.00    99.00
10  3 26 19    15.0 1   318.0     3.60    15.50    99.00    99.00
10  3 26 20    15.0 1   311.0     3.60    14.40    99.00    99.00
10  3 26 21    15.0 1   309.0     2.60    13.50    99.00    99.00
10  3 26 22    15.0 1   302.0     1.50    12.60    99.00    99.00
10  3 26 23    15.0 1   287.0     0.50    11.90    99.00    99.00
10  3 26 24    15.0 1     0.0     0.00    10.90    99.00    99.00
10  3 27  1    15.0 1   158.0     0.50    10.10    99.00    99.00
10  3 27  2    15.0 1     0.0     0.00     9.50    99.00    99.00
10  3 27  3    15.0 1   184.0     0.50     9.00    99.00    99.00
10  3 27  4    15.0 1   198.0     0.50     8.60    99.00    99.00
10  3 27  5    15.0 1   221.0     0.50     8.30    99.00    99.00
10  3 27  6    15.0 1   220.0     0.50     8.10    99.00    99.00
10  3 27  7    15.0 1   242.0     1.00     8.10    99.00    99.00
10  3 27  8    15.0 1   284.0     1.50    10.60    99.00    99.00
10  3 27  9    15.0 1   254.0     1.00    12.90    99.00    99.00
10  3 27 10    15.0 1   243.0     1.00    14.90    99.00    99.00
10  3 27 11    15.0 1     0.0     0.00    17.00    99.00    99.00
10  3 27 12    15.0 1     0.0     0.00    18.80    99.00    99.00
10  3 27 13    15.0 1   332.0     0.50    20.60    99.00    99.00
10  3 27 14    15.0 1   340.0     1.00    22.10    99.00    99.00
10  3 27 15    15.0 1    21.0     1.50    23.10    99.00    99.00
10  3 27 16    15.0 1    31.0     3.10    23.10    99.00    99.00
10  3 27 17    15.0 1    34.0     4.10    21.90    99.00    99.00
10  3 27 18    15.0 1    33.0     4.60    19.60    99.00    99.00
10  3 27 19    15.0 1    48.0     4.10    18.10    99.00    99.00
10  3 27 20    15.0 1    85.0     3.60    17.60    99.00    99.00
10  3 27 21    15.0 1   130.0     2.60    17.00    99.00    99.00
10  3 27 22    15.0 1   195.0     2.60    16.00    99.00    99.00
10  3 27 23    15.0 1   213.0     2.10    15.10    99.00    99.00
10  3 27 24    15.0 1   244.0     0.50    14.10    99.00    99.00
10  3 28  1    15.0 1    60.0     0.50    13.00    99.00    99.00
10  3 28  2    15.0 1    81.0     1.00    12.10    99.00    99.00
10  3 28  3    15.0 1    95.0     0.50    11.40    99.00    99.00
10  3 28  4    15.0 1    91.0     0.50    11.10    99.00    99.00
10  3 28  5    15.0 1    50.0     0.50    10.80    99.00    99.00
10  3 28  6    15.0 1    52.0     0.50    10.60    99.00    99.00
10  3 28  7    15.0 1     0.0     0.00    10.50    99.00    99.00
10  3 28  8    15.0 1     0.0     0.00    12.10    99.00    99.00
10  3 28  9    15.0 1   321.0     0.50    15.40    99.00    99.00
10  3 28 10    15.0 1   334.0     0.50    17.60    99.00    99.00
10  3 28 11    15.0 1   336.0     0.50    19.40    99.00    99.00
10  3 28 12    15.0 1   333.0     0.50    20.90    99.00    99.00
10  3 28 13    15.0 1   324.0     0.50    22.00    99.00    99.00
10  3 28 14    15.0 1   322.0     1.00    22.90    99.00    99.00
10  3 28 15    15.0 1   332.0     1.00    23.30    99.00    99.00
10  3 28 16    15.0 1   353.0     2.10    23.30    99.00    99.00
10  3 28 17    15.0 1   358.0     2.60    22.60    99.00    99.00
10  3 28 18    15.0 1     9.0     3.60    21.50    99.00    99.00
10  3 28 19    15.0 1    25.0     3.60    20.10    99.00    99.00
10  3 28 20    15.0 1   347.0     1.50    18.90    99.00    99.00
10  3 28 21    15.0 1   283.0     3.10    17.50    99.00    99.00
10  3 28 22    15.0 1   279.0     4.10    15.60    99.00    99.00
10  3 28 23    15.0 1   276.0     3.60    14.50    99.00    99.00
10  3 28 24    15.0 1   292.0     3.60    13.60    99.00    99.00
10  3 29  1    15.0 1   309.0     2.60    13.00    99.00    99.00
10  3 29  2    15.0 1   314.0     1.00    12.50    99.00    99.00
10  3 29  3    15.0 1   266.0     0.50    12.10    99.00    99.00
10  3 29  4    15.0 1   297.0     0.50    11.80    99.00    99.00
10  3 29  5    15.0 1     0.0     0.00    11.10    99.00    99.00
10  3 29  6    15.0 1   128.0     0.50    10.60    99.00    99.00
10  3 29  7    15.0 1   116.0     0.50    10.30    99.00    99.00
10  3 29  8    15.0 1   117.0     0.50    11.60    99.00    99.00
10  3 29  9    15.0 1     0.0     0.00    13.90    99.00    99.00
10  3 29 10    15.0 1     0.0     0.00    15.90    99.00    99.00
10  3 29 11    15.0 1     0.0     0.00    17.50    99.00    99.00
10  3 29 12    15.0 1     0.0     0.00    19.00    99.00    99.00
10  3 29 13    15.0 1   279.0     0.50    20.10    99.00    99.00
10  3 29 14    15.0 1   276.0     0.50    21.00    99.00    99.00
10  3 29 15    15.0 1   307.0     0.50    21.60    99.00    99.00
10  3 29 16    15.0 1   328.0     1.00    21.90    99.00    99.00
10  3 29 17    15.0 1    12.0     1.50    21.80    99.00    99.00
10  3 29 18    15.0 1    17.0     2.10    21.10    99.00    99.00
10  3 29 19    15.0 1   337.0     2.10    19.80    99.00    99.00
10  3 29 20    15.0 1   289.0     5.10    18.00    99.00    99.00
10  3 29 21    15.0 1   276.0     5.10    14.90    99.00    99.00
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10  3 29 22    15.0 1   275.0     4.10    14.10    99.00    99.00
10  3 29 23    15.0 1   265.0     4.10    13.60    99.00    99.00
10  3 29 24    15.0 1   261.0     3.10    13.40    99.00    99.00
10  3 30  1    15.0 1   265.0     2.10    13.10    99.00    99.00
10  3 30  2    15.0 1   239.0     1.00    13.10    99.00    99.00
10  3 30  3    15.0 1   210.0     1.00    13.10    99.00    99.00
10  3 30  4    15.0 1   171.0     1.50    13.30    99.00    99.00
10  3 30  5    15.0 1   136.0     1.50    13.30    99.00    99.00
10  3 30  6    15.0 1   135.0     2.10    13.30    99.00    99.00
10  3 30  7    15.0 1   121.0     2.60    13.40    99.00    99.00
10  3 30  8    15.0 1   109.0     2.10    13.50    99.00    99.00
10  3 30  9    15.0 1   287.0     3.60    15.40    99.00    99.00
10  3 30 10    15.0 1   290.0     5.10    16.60    99.00    99.00
10  3 30 11    15.0 1   291.0     5.10    16.60    99.00    99.00
10  3 30 12    15.0 1   292.0     6.70    17.10    99.00    99.00
10  3 30 13    15.0 1   294.0     6.70    17.30    99.00    99.00
10  3 30 14    15.0 1   279.0     6.20    17.10    99.00    99.00
10  3 30 15    15.0 1   283.0     6.70    16.80    99.00    99.00
10  3 30 16    15.0 1   275.0     4.60    16.10    99.00    99.00
10  3 30 17    15.0 1   268.0     5.10    15.10    99.00    99.00
10  3 30 18    15.0 1   274.0     5.10    13.80    99.00    99.00
10  3 30 19    15.0 1   270.0     5.10    12.90    99.00    99.00
10  3 30 20    15.0 1   277.0     4.60    12.10    99.00    99.00
10  3 30 21    15.0 1   285.0     4.10    11.60    99.00    99.00
10  3 30 22    15.0 1   294.0     3.60    11.40    99.00    99.00
10  3 30 23    15.0 1   307.0     2.60    11.10    99.00    99.00
10  3 30 24    15.0 1   341.0     2.60    11.00    99.00    99.00
10  3 31  1    15.0 1   346.0     3.10    10.80    99.00    99.00
10  3 31  2    15.0 1   353.0     2.60    10.60    99.00    99.00
10  3 31  3    15.0 1   354.0     2.10    10.30    99.00    99.00
10  3 31  4    15.0 1   342.0     1.00    10.00    99.00    99.00
10  3 31  5    15.0 1   337.0     0.50     9.80    99.00    99.00
10  3 31  6    15.0 1   156.0     0.50     9.60    99.00    99.00
10  3 31  7    15.0 1   203.0     0.50     9.80    99.00    99.00
10  3 31  8    15.0 1   258.0     1.50    10.80    99.00    99.00
10  3 31  9    15.0 1   253.0     1.50    12.00    99.00    99.00
10  3 31 10    15.0 1   245.0     1.00    13.00    99.00    99.00
10  3 31 11    15.0 1   241.0     2.10    13.90    99.00    99.00
10  3 31 12    15.0 1   241.0     3.60    13.90    99.00    99.00
10  3 31 13    15.0 1   218.0     2.60    13.80    99.00    99.00
10  3 31 14    15.0 1   222.0     1.50    14.10    99.00    99.00
10  3 31 15    15.0 1   215.0     1.50    14.10    99.00    99.00
10  3 31 16    15.0 1   215.0     1.50    12.30    99.00    99.00
10  3 31 17    15.0 1   254.0     1.00    12.50    99.00    99.00
10  3 31 18    15.0 1   327.0     1.50    12.30    99.00    99.00
10  3 31 19    15.0 1   351.0     3.10    11.40    99.00    99.00
10  3 31 20    15.0 1    23.0     3.10    10.40    99.00    99.00
10  3 31 21    15.0 1    41.0     2.60     9.90    99.00    99.00
10  3 31 22    15.0 1    36.0     2.10     9.60    99.00    99.00
10  3 31 23    15.0 1    36.0     0.50     9.40    99.00    99.00
10  3 31 24    15.0 1     0.0     0.00     9.00    99.00    99.00
10  4  1  1    15.0 1   269.0     1.00     8.50    99.00    99.00
10  4  1  2    15.0 1   269.0     3.10     7.60    99.00    99.00
10  4  1  3    15.0 1   294.0     3.60     6.60    99.00    99.00
10  4  1  4    15.0 1   301.0     3.10     6.10    99.00    99.00
10  4  1  5    15.0 1   309.0     3.10     5.60    99.00    99.00
10  4  1  6    15.0 1   322.0     3.10     5.60    99.00    99.00
10  4  1  7    15.0 1   333.0     3.60     6.50    99.00    99.00
10  4  1  8    15.0 1   352.0     3.60     8.10    99.00    99.00
10  4  1  9    15.0 1   346.0     2.60     9.50    99.00    99.00
10  4  1 10    15.0 1   332.0     1.00    10.90    99.00    99.00
10  4  1 11    15.0 1   305.0     0.50    12.10    99.00    99.00
10  4  1 12    15.0 1   287.0     1.00    13.30    99.00    99.00
10  4  1 13    15.0 1   298.0     1.00    14.10    99.00    99.00
10  4  1 14    15.0 1   311.0     1.50    15.00    99.00    99.00
10  4  1 15    15.0 1   328.0     2.60    15.50    99.00    99.00
10  4  1 16    15.0 1   344.0     3.60    15.60    99.00    99.00
10  4  1 17    15.0 1   348.0     4.10    15.30    99.00    99.00
10  4  1 18    15.0 1    12.0     3.10    14.60    99.00    99.00
10  4  1 19    15.0 1     0.0     0.00    13.80    99.00    99.00
10  4  1 20    15.0 1   320.0     1.00    12.80    99.00    99.00
10  4  1 21    15.0 1   302.0     1.50    11.60    99.00    99.00
10  4  1 22    15.0 1   315.0     2.10    10.50    99.00    99.00
10  4  1 23    15.0 1   318.0     1.50     9.40    99.00    99.00
10  4  1 24    15.0 1   315.0     2.10     8.50    99.00    99.00
10  4  2  1    15.0 1   324.0     3.60     7.60    99.00    99.00
10  4  2  2    15.0 1   335.0     3.10     7.10    99.00    99.00
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10  4  2  3    15.0 1   329.0     2.10     6.80    99.00    99.00
10  4  2  4    15.0 1   317.0     1.50     6.50    99.00    99.00
10  4  2  5    15.0 1   304.0     1.00     6.30    99.00    99.00
10  4  2  6    15.0 1   282.0     0.50     6.10    99.00    99.00
10  4  2  7    15.0 1     0.0     0.00     5.80    99.00    99.00
10  4  2  8    15.0 1     0.0     0.00     7.30    99.00    99.00
10  4  2  9    15.0 1     0.0     0.00     9.10    99.00    99.00
10  4  2 10    15.0 1     0.0     0.00    10.80    99.00    99.00
10  4  2 11    15.0 1     0.0     0.00    12.30    99.00    99.00
10  4  2 12    15.0 1     0.0     0.00    13.60    99.00    99.00
10  4  2 13    15.0 1   319.0     1.50    14.60    99.00    99.00
10  4  2 14    15.0 1   327.0     2.60    15.10    99.00    99.00
10  4  2 15    15.0 1   340.0     3.10    15.10    99.00    99.00
10  4  2 16    15.0 1   349.0     2.60    15.10    99.00    99.00
10  4  2 17    15.0 1   350.0     1.50    15.10    99.00    99.00
10  4  2 18    15.0 1   345.0     0.50    14.90    99.00    99.00
10  4  2 19    15.0 1   264.0     1.00    14.30    99.00    99.00
10  4  2 20    15.0 1   276.0     2.60    13.50    99.00    99.00
10  4  2 21    15.0 1   279.0     4.10    12.10    99.00    99.00
10  4  2 22    15.0 1   289.0     4.10    10.80    99.00    99.00
10  4  2 23    15.0 1   288.0     3.60    10.60    99.00    99.00
10  4  2 24    15.0 1   276.0     3.10    10.60    99.00    99.00
10  4  3  1    15.0 1   290.0     2.60    10.60    99.00    99.00
10  4  3  2    15.0 1   312.0     1.00    10.60    99.00    99.00
10  4  3  3    15.0 1     0.0     0.00    10.30    99.00    99.00
10  4  3  4    15.0 1   186.0     1.00     9.60    99.00    99.00
10  4  3  5    15.0 1   218.0     1.00     8.90    99.00    99.00
10  4  3  6    15.0 1   265.0     1.00     8.30    99.00    99.00
10  4  3  7    15.0 1   290.0     1.50     7.90    99.00    99.00
10  4  3  8    15.0 1   324.0     2.10     9.10    99.00    99.00
10  4  3  9    15.0 1   333.0     1.50    10.50    99.00    99.00
10  4  3 10    15.0 1   323.0     1.00    11.60    99.00    99.00
10  4  3 11    15.0 1   308.0     0.50    12.60    99.00    99.00
10  4  3 12    15.0 1   334.0     1.00    13.10    99.00    99.00
10  4  3 13    15.0 1   342.0     1.50    13.80    99.00    99.00
10  4  3 14    15.0 1   347.0     1.50    14.50    99.00    99.00
10  4  3 15    15.0 1   355.0     2.60    14.90    99.00    99.00
10  4  3 16    15.0 1     3.0     3.10    15.10    99.00    99.00
10  4  3 17    15.0 1     3.0     3.10    15.10    99.00    99.00
10  4  3 18    15.0 1     6.0     2.60    14.90    99.00    99.00
10  4  3 19    15.0 1    29.0     2.10    13.90    99.00    99.00
10  4  3 20    15.0 1    57.0     0.50    12.90    99.00    99.00
10  4  3 21    15.0 1   231.0     1.50    12.30    99.00    99.00
10  4  3 22    15.0 1   258.0     2.60    11.60    99.00    99.00
10  4  3 23    15.0 1   288.0     4.10    10.30    99.00    99.00
10  4  3 24    15.0 1   303.0     4.60     8.80    99.00    99.00
10  4  4  1    15.0 1   313.0     4.10     7.60    99.00    99.00
10  4  4  2    15.0 1   332.0     3.10     6.90    99.00    99.00
10  4  4  3    15.0 1   352.0     1.50     6.60    99.00    99.00
10  4  4  4    15.0 1    40.0     0.50     6.40    99.00    99.00
10  4  4  5    15.0 1     0.0     0.00     6.10    99.00    99.00
10  4  4  6    15.0 1     0.0     0.00     6.10    99.00    99.00
10  4  4  7    15.0 1     0.0     0.00     6.10    99.00    99.00
10  4  4  8    15.0 1     0.0     0.00     7.30    99.00    99.00
10  4  4  9    15.0 1     0.0     0.00     8.80    99.00    99.00
10  4  4 10    15.0 1     0.0     0.00    10.30    99.00    99.00
10  4  4 11    15.0 1     0.0     0.00    11.90    99.00    99.00
10  4  4 12    15.0 1     0.0     0.00    13.40    99.00    99.00
10  4  4 13    15.0 1     0.0     0.00    14.60    99.00    99.00
10  4  4 14    15.0 1   102.0     0.50    15.60    99.00    99.00
10  4  4 15    15.0 1   148.0     1.00    16.40    99.00    99.00
10  4  4 16    15.0 1   306.0     1.00    16.30    99.00    99.00
10  4  4 17    15.0 1    34.0     3.60    14.60    99.00    99.00
10  4  4 18    15.0 1    66.0     4.60    13.00    99.00    99.00
10  4  4 19    15.0 1    86.0     4.10    12.30    99.00    99.00
10  4  4 20    15.0 1   115.0     4.10    12.00    99.00    99.00
10  4  4 21    15.0 1   131.0     4.10    12.10    99.00    99.00
10  4  4 22    15.0 1   154.0     4.10    12.10    99.00    99.00
10  4  4 23    15.0 1   150.0     4.60    12.00    99.00    99.00
10  4  4 24    15.0 1   144.0     4.60    11.50    99.00    99.00
10  4  5  1    15.0 1   145.0     4.10    11.10    99.00    99.00
10  4  5  2    15.0 1   131.0     4.10    10.90    99.00    99.00
10  4  5  3    15.0 1   132.0     3.60    10.80    99.00    99.00
10  4  5  4    15.0 1   114.0     2.10    10.60    99.00    99.00
10  4  5  5    15.0 1   351.0     1.50    10.40    99.00    99.00
10  4  5  6    15.0 1   289.0     4.60     9.60    99.00    99.00
10  4  5  7    15.0 1   305.0     5.10    10.00    99.00    99.00
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10  4  5  8    15.0 1   320.0     6.20    11.80    99.00    99.00
10  4  5  9    15.0 1   318.0     5.10    12.60    99.00    99.00
10  4  5 10    15.0 1   344.0     4.60    13.10    99.00    99.00
10  4  5 11    15.0 1   355.0     4.10    13.50    99.00    99.00
10  4  5 12    15.0 1   352.0     3.10    14.40    99.00    99.00
10  4  5 13    15.0 1   343.0     3.10    15.10    99.00    99.00
10  4  5 14    15.0 1   345.0     3.60    15.80    99.00    99.00
10  4  5 15    15.0 1   336.0     4.10    16.10    99.00    99.00
10  4  5 16    15.0 1   350.0     4.60    16.40    99.00    99.00
10  4  5 17    15.0 1   352.0     4.60    16.30    99.00    99.00
10  4  5 18    15.0 1   339.0     3.60    15.60    99.00    99.00
10  4  5 19    15.0 1   342.0     4.10    14.10    99.00    99.00
10  4  5 20    15.0 1   354.0     4.10    12.60    99.00    99.00
10  4  5 21    15.0 1    14.0     4.10    11.60    99.00    99.00
10  4  5 22    15.0 1    29.0     3.60    11.00    99.00    99.00
10  4  5 23    15.0 1    31.0     2.10    10.30    99.00    99.00
10  4  5 24    15.0 1   334.0     0.50     9.60    99.00    99.00
10  4  6  1    15.0 1   276.0     1.50     9.10    99.00    99.00
10  4  6  2    15.0 1   282.0     2.60     8.50    99.00    99.00
10  4  6  3    15.0 1   281.0     2.60     7.90    99.00    99.00
10  4  6  4    15.0 1   274.0     2.10     7.40    99.00    99.00
10  4  6  5    15.0 1   271.0     2.10     6.90    99.00    99.00
10  4  6  6    15.0 1   267.0     2.60     6.50    99.00    99.00
10  4  6  7    15.0 1   295.0     2.60     6.60    99.00    99.00
10  4  6  8    15.0 1   331.0     2.60     8.80    99.00    99.00
10  4  6  9    15.0 1   328.0     1.50    10.40    99.00    99.00
10  4  6 10    15.0 1   311.0     1.00    12.00    99.00    99.00
10  4  6 11    15.0 1   315.0     1.00    13.60    99.00    99.00
10  4  6 12    15.0 1   314.0     1.00    15.10    99.00    99.00
10  4  6 13    15.0 1   318.0     1.50    16.10    99.00    99.00
10  4  6 14    15.0 1   334.0     2.10    16.90    99.00    99.00
10  4  6 15    15.0 1   344.0     3.10    17.30    99.00    99.00
10  4  6 16    15.0 1   342.0     3.60    17.50    99.00    99.00
10  4  6 17    15.0 1   339.0     3.10    17.40    99.00    99.00
10  4  6 18    15.0 1   329.0     1.50    17.10    99.00    99.00
10  4  6 19    15.0 1   304.0     1.00    16.10    99.00    99.00
10  4  6 20    15.0 1   258.0     0.50    15.10    99.00    99.00
10  4  6 21    15.0 1   270.0     1.00    14.00    99.00    99.00
10  4  6 22    15.0 1   282.0     1.50    13.00    99.00    99.00
10  4  6 23    15.0 1   303.0     1.50    12.10    99.00    99.00
10  4  6 24    15.0 1   326.0     1.50    11.10    99.00    99.00
10  4  7  1    15.0 1   343.0     0.50    10.40    99.00    99.00
10  4  7  2    15.0 1   243.0     0.50     9.60    99.00    99.00
10  4  7  3    15.0 1   253.0     1.50     9.30    99.00    99.00
10  4  7  4    15.0 1   264.0     2.60     9.10    99.00    99.00
10  4  7  5    15.0 1   267.0     3.10     8.80    99.00    99.00
10  4  7  6    15.0 1   270.0     3.10     8.40    99.00    99.00
10  4  7  7    15.0 1   280.0     2.60     8.60    99.00    99.00
10  4  7  8    15.0 1   314.0     3.10    10.80    99.00    99.00
10  4  7  9    15.0 1   288.0     2.10    12.90    99.00    99.00
10  4  7 10    15.0 1   288.0     1.50    14.80    99.00    99.00
10  4  7 11    15.0 1   319.0     0.50    16.80    99.00    99.00
10  4  7 12    15.0 1   337.0     0.50    18.50    99.00    99.00
10  4  7 13    15.0 1   346.0     1.00    19.80    99.00    99.00
10  4  7 14    15.0 1   347.0     1.50    20.80    99.00    99.00
10  4  7 15    15.0 1   351.0     1.50    21.50    99.00    99.00
10  4  7 16    15.0 1     0.0     0.00    21.60    99.00    99.00
10  4  7 17    15.0 1     9.0     3.10    21.30    99.00    99.00
10  4  7 18    15.0 1    23.0     3.60    20.40    99.00    99.00
10  4  7 19    15.0 1    30.0     4.10    19.10    99.00    99.00
10  4  7 20    15.0 1    44.0     3.10    18.00    99.00    99.00
10  4  7 21    15.0 1    38.0     1.00    16.80    99.00    99.00
10  4  7 22    15.0 1   243.0     0.50    15.30    99.00    99.00
10  4  7 23    15.0 1   282.0     1.50    14.00    99.00    99.00
10  4  7 24    15.0 1   315.0     1.50    13.00    99.00    99.00
10  4  8  1    15.0 1   329.0     1.00    12.10    99.00    99.00
10  4  8  2    15.0 1   309.0     1.00    11.60    99.00    99.00
10  4  8  3    15.0 1   278.0     1.50    11.10    99.00    99.00
10  4  8  4    15.0 1   276.0     2.60    10.80    99.00    99.00
10  4  8  5    15.0 1   289.0     3.10    10.10    99.00    99.00
10  4  8  6    15.0 1   288.0     2.60     9.60    99.00    99.00
10  4  8  7    15.0 1   300.0     2.10     9.90    99.00    99.00
10  4  8  8    15.0 1   337.0     2.10    12.00    99.00    99.00
10  4  8  9    15.0 1   344.0     0.50    14.00    99.00    99.00
10  4  8 10    15.0 1     0.0     0.00    16.10    99.00    99.00
10  4  8 11    15.0 1   290.0     0.50    18.00    99.00    99.00
10  4  8 12    15.0 1   303.0     1.00    19.40    99.00    99.00
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10  4  8 13    15.0 1   312.0     1.50    20.60    99.00    99.00
10  4  8 14    15.0 1   322.0     2.10    21.60    99.00    99.00
10  4  8 15    15.0 1   327.0     2.60    22.10    99.00    99.00
10  4  8 16    15.0 1   337.0     3.10    22.10    99.00    99.00
10  4  8 17    15.0 1   354.0     3.10    21.80    99.00    99.00
10  4  8 18    15.0 1   347.0     3.60    21.10    99.00    99.00
10  4  8 19    15.0 1   342.0     4.10    19.60    99.00    99.00
10  4  8 20    15.0 1   330.0     4.10    17.60    99.00    99.00
10  4  8 21    15.0 1   328.0     4.10    16.00    99.00    99.00
10  4  8 22    15.0 1   329.0     3.60    15.00    99.00    99.00
10  4  8 23    15.0 1   327.0     3.10    14.40    99.00    99.00
10  4  8 24    15.0 1   318.0     3.60    13.60    99.00    99.00
10  4  9  1    15.0 1   318.0     2.60    12.90    99.00    99.00
10  4  9  2    15.0 1   323.0     2.10    12.30    99.00    99.00
10  4  9  3    15.0 1   324.0     1.00    11.60    99.00    99.00
10  4  9  4    15.0 1   311.0     1.00    11.10    99.00    99.00
10  4  9  5    15.0 1   288.0     1.00    10.60    99.00    99.00
10  4  9  6    15.0 1   293.0     1.00    10.10    99.00    99.00
10  4  9  7    15.0 1   312.0     1.50    10.40    99.00    99.00
10  4  9  8    15.0 1   345.0     1.50    11.80    99.00    99.00
10  4  9  9    15.0 1   312.0     0.50    13.40    99.00    99.00
10  4  9 10    15.0 1   297.0     0.50    15.00    99.00    99.00
10  4  9 11    15.0 1   303.0     0.50    16.40    99.00    99.00
10  4  9 12    15.0 1   302.0     0.50    17.90    99.00    99.00
10  4  9 13    15.0 1   308.0     1.00    19.30    99.00    99.00
10  4  9 14    15.0 1   310.0     1.50    20.10    99.00    99.00
10  4  9 15    15.0 1   324.0     1.50    20.80    99.00    99.00
10  4  9 16    15.0 1   326.0     2.10    21.10    99.00    99.00
10  4  9 17    15.0 1   338.0     2.10    21.00    99.00    99.00
10  4  9 18    15.0 1   347.0     2.10    20.60    99.00    99.00
10  4  9 19    15.0 1   275.0     3.60    19.40    99.00    99.00
10  4  9 20    15.0 1   261.0     6.70    14.90    99.00    99.00
10  4  9 21    15.0 1   265.0     5.10    13.00    99.00    99.00
10  4  9 22    15.0 1   256.0     4.60    11.90    99.00    99.00
10  4  9 23    15.0 1   266.0     3.10    11.10    99.00    99.00
10  4  9 24    15.0 1   310.0     1.50    10.60    99.00    99.00
10  4 10  1    15.0 1    20.0     1.50    10.30    99.00    99.00
10  4 10  2    15.0 1    44.0     2.60     9.90    99.00    99.00
10  4 10  3    15.0 1    48.0     2.10     9.40    99.00    99.00
10  4 10  4    15.0 1    48.0     1.50     8.90    99.00    99.00
10  4 10  5    15.0 1    64.0     1.00     8.50    99.00    99.00
10  4 10  6    15.0 1    58.0     0.50     8.30    99.00    99.00
10  4 10  7    15.0 1   274.0     1.00     8.90    99.00    99.00
10  4 10  8    15.0 1   276.0     0.50    10.90    99.00    99.00
10  4 10  9    15.0 1     0.0     0.00    12.80    99.00    99.00
10  4 10 10    15.0 1     0.0     0.00    14.50    99.00    99.00
10  4 10 11    15.0 1     0.0     0.00    15.80    99.00    99.00
10  4 10 12    15.0 1     0.0     0.00    17.10    99.00    99.00
10  4 10 13    15.0 1   291.0     0.50    18.10    99.00    99.00
10  4 10 14    15.0 1   303.0     0.50    18.90    99.00    99.00
10  4 10 15    15.0 1   308.0     1.00    19.50    99.00    99.00
10  4 10 16    15.0 1   308.0     1.50    21.10    99.00    99.00
10  4 10 17    15.0 1   288.0     2.60    21.10    99.00    99.00
10  4 10 18    15.0 1   271.0     4.10    19.80    99.00    99.00
10  4 10 19    15.0 1   272.0     5.10    16.60    99.00    99.00
10  4 10 20    15.0 1   274.0     4.10    14.50    99.00    99.00
10  4 10 21    15.0 1   269.0     3.60    13.10    99.00    99.00
10  4 10 22    15.0 1   293.0     3.10    12.30    99.00    99.00
10  4 10 23    15.0 1   322.0     2.60    11.90    99.00    99.00
10  4 10 24    15.0 1     6.0     3.10    11.40    99.00    99.00
10  4 11  1    15.0 1    26.0     3.60    11.10    99.00    99.00
10  4 11  2    15.0 1    40.0     3.60    10.60    99.00    99.00
10  4 11  3    15.0 1    50.0     3.10    10.50    99.00    99.00
10  4 11  4    15.0 1    56.0     3.10    10.10    99.00    99.00
10  4 11  5    15.0 1    64.0     2.60    10.10    99.00    99.00
10  4 11  6    15.0 1    60.0     2.60    10.10    99.00    99.00
10  4 11  7    15.0 1    65.0     1.50    10.30    99.00    99.00
10  4 11  8    15.0 1    80.0     1.00    11.90    99.00    99.00
10  4 11  9    15.0 1   154.0     0.50    14.10    99.00    99.00
10  4 11 10    15.0 1   167.0     2.10    16.10    99.00    99.00
10  4 11 11    15.0 1   164.0     3.60    17.60    99.00    99.00
10  4 11 12    15.0 1   156.0     4.60    19.10    99.00    99.00
10  4 11 13    15.0 1   179.0     6.20    20.40    99.00    99.00
10  4 11 14    15.0 1   194.0     8.70    20.60    99.00    99.00
10  4 11 15    15.0 1   204.0     9.30    20.40    99.00    99.00
10  4 11 16    15.0 1   202.0     9.30    19.90    99.00    99.00
10  4 11 17    15.0 1   203.0     6.20    19.00    99.00    99.00
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10  4 11 18    15.0 1   191.0     5.10    17.30    99.00    99.00
10  4 11 19    15.0 1   178.0     5.10    15.30    99.00    99.00
10  4 11 20    15.0 1   146.0     4.60    14.40    99.00    99.00
10  4 11 21    15.0 1   126.0     5.10    13.80    99.00    99.00
10  4 11 22    15.0 1   119.0     4.60    13.10    99.00    99.00
10  4 11 23    15.0 1   125.0     4.60    12.80    99.00    99.00
10  4 11 24    15.0 1   127.0     4.10    12.50    99.00    99.00
10  4 12  1    15.0 1   136.0     4.10    12.10    99.00    99.00
10  4 12  2    15.0 1   128.0     4.10    11.80    99.00    99.00
10  4 12  3    15.0 1   120.0     3.10    11.60    99.00    99.00
10  4 12  4    15.0 1   149.0     2.60    11.60    99.00    99.00
10  4 12  5    15.0 1   171.0     3.60    11.40    99.00    99.00
10  4 12  6    15.0 1   173.0     4.60    11.00    99.00    99.00
10  4 12  7    15.0 1   185.0     4.60    10.80    99.00    99.00
10  4 12  8    15.0 1   181.0     4.10    11.90    99.00    99.00
10  4 12  9    15.0 1   222.0     4.60    13.80    99.00    99.00
10  4 12 10    15.0 1   241.0     6.20    15.00    99.00    99.00
10  4 12 11    15.0 1   239.0     5.70    16.10    99.00    99.00
10  4 12 12    15.0 1   236.0     5.10    17.10    99.00    99.00
10  4 12 13    15.0 1   246.0     4.60    17.60    99.00    99.00
10  4 12 14    15.0 1   255.0     4.60    17.80    99.00    99.00
10  4 12 15    15.0 1   256.0     4.60    18.00    99.00    99.00
10  4 12 16    15.0 1   267.0     6.20    17.60    99.00    99.00
10  4 12 17    15.0 1   276.0     5.10    16.60    99.00    99.00
10  4 12 18    15.0 1   286.0     3.60    15.90    99.00    99.00
10  4 12 19    15.0 1   285.0     5.10    14.40    99.00    99.00
10  4 12 20    15.0 1   272.0     5.10    12.40    99.00    99.00
10  4 12 21    15.0 1   272.0     4.60    11.10    99.00    99.00
10  4 12 22    15.0 1   270.0     4.60    10.50    99.00    99.00
10  4 12 23    15.0 1   268.0     5.10    10.00    99.00    99.00
10  4 12 24    15.0 1   283.0     5.10     9.60    99.00    99.00
10  4 13  1    15.0 1   293.0     4.60     9.10    99.00    99.00
10  4 13  2    15.0 1   292.0     4.10     9.00    99.00    99.00
10  4 13  3    15.0 1   302.0     3.60     8.60    99.00    99.00
10  4 13  4    15.0 1   301.0     3.60     8.10    99.00    99.00
10  4 13  5    15.0 1   294.0     3.10     7.80    99.00    99.00
10  4 13  6    15.0 1   297.0     2.60     7.40    99.00    99.00
10  4 13  7    15.0 1   316.0     2.60     8.40    99.00    99.00
10  4 13  8    15.0 1   359.0     1.50     9.60    99.00    99.00
10  4 13  9    15.0 1     0.0     0.00    11.30    99.00    99.00
10  4 13 10    15.0 1     0.0     0.00    13.10    99.00    99.00
10  4 13 11    15.0 1     0.0     0.00    14.60    99.00    99.00
10  4 13 12    15.0 1   279.0     0.50    15.90    99.00    99.00
10  4 13 13    15.0 1   301.0     0.50    16.90    99.00    99.00
10  4 13 14    15.0 1   325.0     1.00    17.60    99.00    99.00
10  4 13 15    15.0 1   345.0     1.50    18.10    99.00    99.00
10  4 13 16    15.0 1   353.0     2.60    18.50    99.00    99.00
10  4 13 17    15.0 1   352.0     3.10    18.40    99.00    99.00
10  4 13 18    15.0 1     0.0     0.00    17.90    99.00    99.00
10  4 13 19    15.0 1    14.0     3.10    16.90    99.00    99.00
10  4 13 20    15.0 1     0.0     0.00    15.80    99.00    99.00
10  4 13 21    15.0 1   241.0     2.10    14.30    99.00    99.00
10  4 13 22    15.0 1   255.0     4.10    12.40    99.00    99.00
10  4 13 23    15.0 1   267.0     4.10    11.40    99.00    99.00
10  4 13 24    15.0 1   287.0     4.10    10.90    99.00    99.00
10  4 14  1    15.0 1   314.0     3.60    10.40    99.00    99.00
10  4 14  2    15.0 1   345.0     3.10    10.10    99.00    99.00
10  4 14  3    15.0 1   358.0     2.60     9.60    99.00    99.00
10  4 14  4    15.0 1     0.0     0.00     9.10    99.00    99.00
10  4 14  5    15.0 1   325.0     0.50     8.60    99.00    99.00
10  4 14  6    15.0 1   303.0     0.50     8.90    99.00    99.00
10  4 14  7    15.0 1   352.0     0.50     9.10    99.00    99.00
10  4 14  8    15.0 1   333.0     1.00     9.60    99.00    99.00
10  4 14  9    15.0 1   322.0     1.50    10.10    99.00    99.00
10  4 14 10    15.0 1     0.0     0.00    11.10    99.00    99.00
10  4 14 11    15.0 1     0.0     0.00    12.90    99.00    99.00
10  4 14 12    15.0 1     0.0     0.00    14.60    99.00    99.00
10  4 14 13    15.0 1     0.0     0.00    15.80    99.00    99.00
10  4 14 14    15.0 1     0.0     0.00    16.90    99.00    99.00
10  4 14 15    15.0 1   315.0     0.50    17.60    99.00    99.00
10  4 14 16    15.0 1   331.0     1.50    18.10    99.00    99.00
10  4 14 17    15.0 1   338.0     2.10    18.10    99.00    99.00
10  4 14 18    15.0 1     1.0     2.10    18.00    99.00    99.00
10  4 14 19    15.0 1     8.0     2.10    17.10    99.00    99.00
10  4 14 20    15.0 1   317.0     1.50    16.10    99.00    99.00
10  4 14 21    15.0 1   290.0     4.60    14.00    99.00    99.00
10  4 14 22    15.0 1   296.0     4.10    12.30    99.00    99.00
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10  4 14 23    15.0 1   314.0     3.10    11.60    99.00    99.00
10  4 14 24    15.0 1   334.0     2.60    11.50    99.00    99.00
10  4 15  1    15.0 1   351.0     2.10    11.10    99.00    99.00
10  4 15  2    15.0 1    28.0     1.50    10.60    99.00    99.00
10  4 15  3    15.0 1    60.0     1.00    10.10    99.00    99.00
10  4 15  4    15.0 1     0.0     0.00     9.60    99.00    99.00
10  4 15  5    15.0 1     0.0     0.00     9.30    99.00    99.00
10  4 15  6    15.0 1     0.0     0.00     9.00    99.00    99.00
10  4 15  7    15.0 1    43.0     0.50     9.10    99.00    99.00
10  4 15  8    15.0 1     0.0     0.00    10.10    99.00    99.00
10  4 15  9    15.0 1     0.0     0.00    11.60    99.00    99.00
10  4 15 10    15.0 1     0.0     0.00    13.10    99.00    99.00
10  4 15 11    15.0 1   330.0     0.50    14.90    99.00    99.00
10  4 15 12    15.0 1   330.0     0.50    16.40    99.00    99.00
10  4 15 13    15.0 1   328.0     1.00    17.60    99.00    99.00
10  4 15 14    15.0 1   331.0     1.50    18.50    99.00    99.00
10  4 15 15    15.0 1   336.0     2.10    18.90    99.00    99.00
10  4 15 16    15.0 1     2.0     2.60    19.80    99.00    99.00
10  4 15 17    15.0 1    17.0     2.60    19.10    99.00    99.00
10  4 15 18    15.0 1    34.0     3.10    18.30    99.00    99.00
10  4 15 19    15.0 1    43.0     1.50    17.60    99.00    99.00
10  4 15 20    15.0 1   264.0     2.10    17.00    99.00    99.00
10  4 15 21    15.0 1   275.0     4.10    15.10    99.00    99.00
10  4 15 22    15.0 1   271.0     4.10    13.80    99.00    99.00
10  4 15 23    15.0 1   275.0     3.10    13.10    99.00    99.00
10  4 15 24    15.0 1   274.0     2.60    12.60    99.00    99.00
10  4 16  1    15.0 1   288.0     1.50    12.60    99.00    99.00
10  4 16  2    15.0 1   287.0     0.50    12.50    99.00    99.00
10  4 16  3    15.0 1   193.0     0.50    12.40    99.00    99.00
10  4 16  4    15.0 1   192.0     0.50    12.10    99.00    99.00
10  4 16  5    15.0 1     0.0     0.00    11.90    99.00    99.00
10  4 16  6    15.0 1     0.0     0.00    11.60    99.00    99.00
10  4 16  7    15.0 1   323.0     1.00    12.30    99.00    99.00
10  4 16  8    15.0 1     0.0     0.00    13.80    99.00    99.00
10  4 16  9    15.0 1     0.0     0.00    15.10    99.00    99.00
10  4 16 10    15.0 1     0.0     0.00    16.60    99.00    99.00
10  4 16 11    15.0 1     0.0     0.00    18.10    99.00    99.00
10  4 16 12    15.0 1     0.0     0.00    19.50    99.00    99.00
10  4 16 13    15.0 1   328.0     0.50    20.60    99.00    99.00
10  4 16 14    15.0 1   355.0     1.50    21.40    99.00    99.00
10  4 16 15    15.0 1   355.0     2.60    21.90    99.00    99.00
10  4 16 16    15.0 1   355.0     3.10    22.10    99.00    99.00
10  4 16 17    15.0 1   356.0     3.10    21.60    99.00    99.00
10  4 16 18    15.0 1     1.0     2.60    21.10    99.00    99.00
10  4 16 19    15.0 1   338.0     2.60    20.10    99.00    99.00
10  4 16 20    15.0 1   329.0     3.10    19.10    99.00    99.00
10  4 16 21    15.0 1   306.0     3.60    17.60    99.00    99.00
10  4 16 22    15.0 1   305.0     3.10    15.80    99.00    99.00
10  4 16 23    15.0 1   298.0     2.60    15.00    99.00    99.00
10  4 16 24    15.0 1   317.0     3.10    14.30    99.00    99.00
10  4 17  1    15.0 1   329.0     2.60    13.60    99.00    99.00
10  4 17  2    15.0 1   299.0     1.00    12.90    99.00    99.00
10  4 17  3    15.0 1   206.0     1.00    12.40    99.00    99.00
10  4 17  4    15.0 1   187.0     0.50    12.00    99.00    99.00
10  4 17  5    15.0 1    20.0     0.50    11.50    99.00    99.00
10  4 17  6    15.0 1     0.0     0.00    11.10    99.00    99.00
10  4 17  7    15.0 1     0.0     0.00    11.40    99.00    99.00
10  4 17  8    15.0 1     0.0     0.00    12.10    99.00    99.00
10  4 17  9    15.0 1     0.0     0.00    12.40    99.00    99.00
10  4 17 10    15.0 1     0.0     0.00    13.10    99.00    99.00
10  4 17 11    15.0 1     0.0     0.00    16.10    99.00    99.00
10  4 17 12    15.0 1     0.0     0.00    18.60    99.00    99.00
10  4 17 13    15.0 1    10.0     0.50    20.50    99.00    99.00
10  4 17 14    15.0 1    15.0     1.00    22.00    99.00    99.00
10  4 17 15    15.0 1     0.0     0.00    22.90    99.00    99.00
10  4 17 16    15.0 1     0.0     0.00    23.30    99.00    99.00
10  4 17 17    15.0 1    12.0     2.60    23.10    99.00    99.00
10  4 17 18    15.0 1    23.0     2.10    22.60    99.00    99.00
10  4 17 19    15.0 1    17.0     1.50    21.50    99.00    99.00
10  4 17 20    15.0 1    40.0     0.50    20.10    99.00    99.00
10  4 17 21    15.0 1   179.0     0.50    18.60    99.00    99.00
10  4 17 22    15.0 1   215.0     0.50    17.00    99.00    99.00
10  4 17 23    15.0 1   292.0     0.50    15.90    99.00    99.00
10  4 17 24    15.0 1   345.0     0.50    15.00    99.00    99.00
10  4 18  1    15.0 1   349.0     1.50    14.50    99.00    99.00
10  4 18  2    15.0 1   349.0     3.60    13.90    99.00    99.00
10  4 18  3    15.0 1   348.0     3.10    13.00    99.00    99.00
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10  4 18  4    15.0 1   347.0     2.60    12.40    99.00    99.00
10  4 18  5    15.0 1   354.0     2.10    12.10    99.00    99.00
10  4 18  6    15.0 1   348.0     1.00    11.80    99.00    99.00
10  4 18  7    15.0 1   325.0     0.50    11.80    99.00    99.00
10  4 18  8    15.0 1   352.0     1.00    12.90    99.00    99.00
10  4 18  9    15.0 1     0.0     0.00    14.50    99.00    99.00
10  4 18 10    15.0 1     0.0     0.00    16.40    99.00    99.00
10  4 18 11    15.0 1     0.0     0.00    17.80    99.00    99.00
10  4 18 12    15.0 1     0.0     0.00    19.60    99.00    99.00
10  4 18 13    15.0 1     0.0     0.00    21.30    99.00    99.00
10  4 18 14    15.0 1     0.0     0.00    22.10    99.00    99.00
10  4 18 15    15.0 1   174.0     0.50    22.50    99.00    99.00
10  4 18 16    15.0 1   165.0     2.10    22.30    99.00    99.00
10  4 18 17    15.0 1   151.0     3.60    21.10    99.00    99.00
10  4 18 18    15.0 1   155.0     6.20    18.90    99.00    99.00
10  4 18 19    15.0 1   149.0     4.60    17.90    99.00    99.00
10  4 18 20    15.0 1   139.0     3.60    17.40    99.00    99.00
10  4 18 21    15.0 1   139.0     3.60    16.90    99.00    99.00
10  4 18 22    15.0 1   159.0     3.60    16.60    99.00    99.00
10  4 18 23    15.0 1   183.0     2.60    16.60    99.00    99.00
10  4 18 24    15.0 1   180.0     1.00    16.60    99.00    99.00
10  4 19  1    15.0 1    35.0     2.10    16.50    99.00    99.00
10  4 19  2    15.0 1    29.0     3.10    16.10    99.00    99.00
10  4 19  3    15.0 1     0.0     0.00    15.60    99.00    99.00
10  4 19  4    15.0 1   350.0     3.10    14.80    99.00    99.00
10  4 19  5    15.0 1   350.0     2.60    14.10    99.00    99.00
10  4 19  6    15.0 1   355.0     2.10    13.50    99.00    99.00
10  4 19  7    15.0 1   316.0     2.10    14.10    99.00    99.00
10  4 19  8    15.0 1   305.0     0.50    15.60    99.00    99.00
10  4 19  9    15.0 1     0.0     0.00    17.80    99.00    99.00
10  4 19 10    15.0 1     0.0     0.00    19.50    99.00    99.00
10  4 19 11    15.0 1     0.0     0.00    21.00    99.00    99.00
10  4 19 12    15.0 1     0.0     0.00    22.40    99.00    99.00
10  4 19 13    15.0 1     0.0     0.00    23.50    99.00    99.00
10  4 19 14    15.0 1     0.0     0.00    24.30    99.00    99.00
10  4 19 15    15.0 1     0.0     0.00    24.60    99.00    99.00
10  4 19 16    15.0 1   268.0     1.00    24.50    99.00    99.00
10  4 19 17    15.0 1   270.0     1.50    24.40    99.00    99.00
10  4 19 18    15.0 1   256.0     5.10    22.40    99.00    99.00
10  4 19 19    15.0 1   273.0     5.10    19.00    99.00    99.00
10  4 19 20    15.0 1   268.0     4.60    16.90    99.00    99.00
10  4 19 21    15.0 1   285.0     4.10    15.80    99.00    99.00
10  4 19 22    15.0 1   294.0     2.60    15.10    99.00    99.00
10  4 19 23    15.0 1    10.0     1.50    15.10    99.00    99.00
10  4 19 24    15.0 1    19.0     1.50    14.90    99.00    99.00
10  4 20  1    15.0 1   319.0     1.50    14.50    99.00    99.00
10  4 20  2    15.0 1   268.0     2.60    14.10    99.00    99.00
10  4 20  3    15.0 1   259.0     3.10    13.60    99.00    99.00
10  4 20  4    15.0 1   263.0     3.60    13.10    99.00    99.00
10  4 20  5    15.0 1   265.0     2.60    13.00    99.00    99.00
10  4 20  6    15.0 1   264.0     2.10    13.00    99.00    99.00
10  4 20  7    15.0 1   229.0     1.50    13.10    99.00    99.00
10  4 20  8    15.0 1   168.0     1.50    13.50    99.00    99.00
10  4 20  9    15.0 1   143.0     2.10    14.40    99.00    99.00
10  4 20 10    15.0 1   134.0     2.10    16.10    99.00    99.00
10  4 20 11    15.0 1   127.0     2.60    16.90    99.00    99.00
10  4 20 12    15.0 1   165.0     1.00    17.60    99.00    99.00
10  4 20 13    15.0 1   216.0     0.50    18.30    99.00    99.00
10  4 20 14    15.0 1   246.0     2.10    18.90    99.00    99.00
10  4 20 15    15.0 1   273.0     5.70    19.10    99.00    99.00
10  4 20 16    15.0 1   273.0     7.70    18.50    99.00    99.00
10  4 20 17    15.0 1   272.0     6.70    16.80    99.00    99.00
10  4 20 18    15.0 1   259.0     5.70    14.60    99.00    99.00
10  4 20 19    15.0 1   263.0     5.10    12.40    99.00    99.00
10  4 20 20    15.0 1   256.0     4.60    11.00    99.00    99.00
10  4 20 21    15.0 1   252.0     4.10    10.00    99.00    99.00
10  4 20 22    15.0 1   258.0     4.10     9.30    99.00    99.00
10  4 20 23    15.0 1   261.0     3.60     9.10    99.00    99.00
10  4 20 24    15.0 1   265.0     3.60     9.30    99.00    99.00
10  4 21  1    15.0 1   260.0     3.60     9.30    99.00    99.00
10  4 21  2    15.0 1   265.0     4.10     8.60    99.00    99.00
10  4 21  3    15.0 1   273.0     4.10     8.30    99.00    99.00
10  4 21  4    15.0 1   266.0     4.60     8.10    99.00    99.00
10  4 21  5    15.0 1   268.0     4.60     8.00    99.00    99.00
10  4 21  6    15.0 1   266.0     4.10     7.80    99.00    99.00
10  4 21  7    15.0 1   277.0     3.60     8.40    99.00    99.00
10  4 21  8    15.0 1   299.0     5.70    10.30    99.00    99.00
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10  4 21  9    15.0 1   307.0     5.10    11.50    99.00    99.00
10  4 21 10    15.0 1   314.0     4.10    12.10    99.00    99.00
10  4 21 11    15.0 1   300.0     3.60    13.00    99.00    99.00
10  4 21 12    15.0 1   296.0     4.10    13.90    99.00    99.00
10  4 21 13    15.0 1   293.0     5.10    14.60    99.00    99.00
10  4 21 14    15.0 1   288.0     5.70    15.10    99.00    99.00
10  4 21 15    15.0 1   293.0     5.70    15.10    99.00    99.00
10  4 21 16    15.0 1   299.0     5.70    15.00    99.00    99.00
10  4 21 17    15.0 1   294.0     3.60    14.80    99.00    99.00
10  4 21 18    15.0 1   284.0     3.10    14.30    99.00    99.00
10  4 21 19    15.0 1   263.0     5.10    13.10    99.00    99.00
10  4 21 20    15.0 1   278.0     7.20    11.10    99.00    99.00
10  4 21 21    15.0 1   279.0     6.20    10.10    99.00    99.00
10  4 21 22    15.0 1   280.0     5.70     9.60    99.00    99.00
10  4 21 23    15.0 1   279.0     5.70     9.40    99.00    99.00
10  4 21 24    15.0 1   277.0     5.10     9.30    99.00    99.00
10  4 22  1    15.0 1   270.0     3.60     9.10    99.00    99.00
10  4 22  2    15.0 1   250.0     1.50     9.10    99.00    99.00
10  4 22  3    15.0 1   226.0     1.00     9.30    99.00    99.00
10  4 22  4    15.0 1   237.0     0.50     9.50    99.00    99.00
10  4 22  5    15.0 1   230.0     1.00     9.50    99.00    99.00
10  4 22  6    15.0 1   217.0     1.00     9.50    99.00    99.00
10  4 22  7    15.0 1   275.0     1.50     9.60    99.00    99.00
10  4 22  8    15.0 1   271.0     0.50    10.60    99.00    99.00
10  4 22  9    15.0 1     0.0     0.00    12.00    99.00    99.00
10  4 22 10    15.0 1     0.0     0.00    12.90    99.00    99.00
10  4 22 11    15.0 1     0.0     0.00    13.90    99.00    99.00
10  4 22 12    15.0 1     0.0     0.00    15.40    99.00    99.00
10  4 22 13    15.0 1     0.0     0.00    16.60    99.00    99.00
10  4 22 14    15.0 1     0.0     0.00    17.40    99.00    99.00
10  4 22 15    15.0 1    40.0     0.50    18.10    99.00    99.00
10  4 22 16    15.0 1    21.0     0.50    18.50    99.00    99.00
10  4 22 17    15.0 1    19.0     1.00    18.60    99.00    99.00
10  4 22 18    15.0 1    33.0     0.50    18.50    99.00    99.00
10  4 22 19    15.0 1     9.0     0.50    17.60    99.00    99.00
10  4 22 20    15.0 1    44.0     0.50    16.30    99.00    99.00
10  4 22 21    15.0 1   196.0     0.50    14.90    99.00    99.00
10  4 22 22    15.0 1   218.0     2.10    13.50    99.00    99.00
10  4 22 23    15.0 1   194.0     1.00    12.60    99.00    99.00
10  4 22 24    15.0 1   157.0     1.50    12.00    99.00    99.00
10  4 23  1    15.0 1   146.0     2.10    11.10    99.00    99.00
10  4 23  2    15.0 1   150.0     2.60    10.40    99.00    99.00
10  4 23  3    15.0 1   150.0     2.10     9.90    99.00    99.00
10  4 23  4    15.0 1   147.0     1.50     9.40    99.00    99.00
10  4 23  5    15.0 1   160.0     1.00     9.00    99.00    99.00
10  4 23  6    15.0 1   201.0     0.50     8.60    99.00    99.00
10  4 23  7    15.0 1   310.0     0.50    10.10    99.00    99.00
10  4 23  8    15.0 1     0.0     0.00    12.90    99.00    99.00
10  4 23  9    15.0 1     0.0     0.00    15.10    99.00    99.00
10  4 23 10    15.0 1     0.0     0.00    16.80    99.00    99.00
10  4 23 11    15.0 1     0.0     0.00    18.10    99.00    99.00
10  4 23 12    15.0 1     0.0     0.00    19.60    99.00    99.00
10  4 23 13    15.0 1   292.0     0.50    20.90    99.00    99.00
10  4 23 14    15.0 1   337.0     0.50    21.90    99.00    99.00
10  4 23 15    15.0 1    11.0     1.50    22.60    99.00    99.00
10  4 23 16    15.0 1     9.0     2.60    22.90    99.00    99.00
10  4 23 17    15.0 1    21.0     2.60    22.80    99.00    99.00
10  4 23 18    15.0 1    29.0     1.50    22.50    99.00    99.00
10  4 23 19    15.0 1    26.0     0.50    21.50    99.00    99.00
10  4 23 20    15.0 1   235.0     0.50    20.00    99.00    99.00
10  4 23 21    15.0 1   217.0     0.50    18.30    99.00    99.00
10  4 23 22    15.0 1   200.0     1.00    17.00    99.00    99.00
10  4 23 23    15.0 1   162.0     1.50    15.80    99.00    99.00
10  4 23 24    15.0 1   130.0     1.50    14.90    99.00    99.00
10  4 24  1    15.0 1   134.0     1.00    14.10    99.00    99.00
10  4 24  2    15.0 1   292.0     1.00    13.60    99.00    99.00
10  4 24  3    15.0 1   301.0     2.10    13.00    99.00    99.00
10  4 24  4    15.0 1   296.0     2.60    12.10    99.00    99.00
10  4 24  5    15.0 1   307.0     2.60    11.40    99.00    99.00
10  4 24  6    15.0 1   311.0     2.10    11.00    99.00    99.00
10  4 24  7    15.0 1   326.0     2.60    12.40    99.00    99.00
10  4 24  8    15.0 1   341.0     1.50    14.50    99.00    99.00
10  4 24  9    15.0 1     0.0     0.00    16.60    99.00    99.00
10  4 24 10    15.0 1     0.0     0.00    18.40    99.00    99.00
10  4 24 11    15.0 1     0.0     0.00    20.10    99.00    99.00
10  4 24 12    15.0 1   303.0     0.50    21.60    99.00    99.00
10  4 24 13    15.0 1   309.0     1.00    22.90    99.00    99.00
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10  4 24 14    15.0 1   332.0     2.10    23.80    99.00    99.00
10  4 24 15    15.0 1   348.0     3.10    24.40    99.00    99.00
10  4 24 16    15.0 1   360.0     4.10    24.40    99.00    99.00
10  4 24 17    15.0 1     0.0     0.00    23.60    99.00    99.00
10  4 24 18    15.0 1   352.0     3.10    22.80    99.00    99.00
10  4 24 19    15.0 1   331.0     4.10    21.50    99.00    99.00
10  4 24 20    15.0 1   319.0     4.10    19.50    99.00    99.00
10  4 24 21    15.0 1   308.0     3.60    18.40    99.00    99.00
10  4 24 22    15.0 1   310.0     3.10    17.50    99.00    99.00
10  4 24 23    15.0 1   315.0     2.60    16.50    99.00    99.00
10  4 24 24    15.0 1   310.0     2.60    15.40    99.00    99.00
10  4 25  1    15.0 1   322.0     1.50    14.40    99.00    99.00
10  4 25  2    15.0 1     0.0     0.00    14.00    99.00    99.00
10  4 25  3    15.0 1     8.0     0.50    13.60    99.00    99.00
10  4 25  4    15.0 1   306.0     0.50    13.10    99.00    99.00
10  4 25  5    15.0 1   282.0     1.00    12.50    99.00    99.00
10  4 25  6    15.0 1   274.0     1.50    11.90    99.00    99.00
10  4 25  7    15.0 1   288.0     1.00    12.80    99.00    99.00
10  4 25  8    15.0 1     0.0     0.00    14.90    99.00    99.00
10  4 25  9    15.0 1     0.0     0.00    16.80    99.00    99.00
10  4 25 10    15.0 1     0.0     0.00    18.60    99.00    99.00
10  4 25 11    15.0 1     0.0     0.00    20.60    99.00    99.00
10  4 25 12    15.0 1   280.0     0.50    22.50    99.00    99.00
10  4 25 13    15.0 1   323.0     0.50    24.10    99.00    99.00
10  4 25 14    15.0 1   345.0     1.50    25.10    99.00    99.00
10  4 25 15    15.0 1   351.0     2.60    25.60    99.00    99.00
10  4 25 16    15.0 1   352.0     3.60    26.10    99.00    99.00
10  4 25 17    15.0 1   359.0     2.60    25.60    99.00    99.00
10  4 25 18    15.0 1   354.0     3.10    24.90    99.00    99.00
10  4 25 19    15.0 1   344.0     2.60    23.80    99.00    99.00
10  4 25 20    15.0 1   300.0     1.50    22.50    99.00    99.00
10  4 25 21    15.0 1   271.0     2.10    21.10    99.00    99.00
10  4 25 22    15.0 1   256.0     3.10    19.60    99.00    99.00
10  4 25 23    15.0 1   267.0     2.60    18.10    99.00    99.00
10  4 25 24    15.0 1   284.0     1.00    16.90    99.00    99.00
10  4 26  1    15.0 1   249.0     0.50    16.10    99.00    99.00
10  4 26  2    15.0 1   293.0     1.00    15.80    99.00    99.00
10  4 26  3    15.0 1   298.0     1.50    15.10    99.00    99.00
10  4 26  4    15.0 1   302.0     2.10    14.50    99.00    99.00
10  4 26  5    15.0 1   300.0     2.10    13.90    99.00    99.00
10  4 26  6    15.0 1   272.0     1.50    13.40    99.00    99.00
10  4 26  7    15.0 1   305.0     2.10    14.60    99.00    99.00
10  4 26  8    15.0 1   300.0     1.00    16.50    99.00    99.00
10  4 26  9    15.0 1   262.0     0.50    18.90    99.00    99.00
10  4 26 10    15.0 1   256.0     0.50    20.90    99.00    99.00
10  4 26 11    15.0 1   295.0     0.50    23.00    99.00    99.00
10  4 26 12    15.0 1     0.0     0.00    24.60    99.00    99.00
10  4 26 13    15.0 1     0.0     0.00    26.10    99.00    99.00
10  4 26 14    15.0 1     0.0     0.00    27.10    99.00    99.00
10  4 26 15    15.0 1    20.0     0.50    27.60    99.00    99.00
10  4 26 16    15.0 1    24.0     1.50    27.80    99.00    99.00
10  4 26 17    15.0 1    35.0     2.10    27.10    99.00    99.00
10  4 26 18    15.0 1    35.0     3.10    26.10    99.00    99.00
10  4 26 19    15.0 1   306.0     1.50    25.00    99.00    99.00
10  4 26 20    15.0 1   266.0     5.10    21.90    99.00    99.00
10  4 26 21    15.0 1   268.0     4.60    19.00    99.00    99.00
10  4 26 22    15.0 1   257.0     4.10    17.60    99.00    99.00
10  4 26 23    15.0 1   267.0     3.10    16.90    99.00    99.00
10  4 26 24    15.0 1   298.0     1.50    16.60    99.00    99.00
10  4 27  1    15.0 1    49.0     0.50    16.50    99.00    99.00
10  4 27  2    15.0 1   210.0     0.50    16.40    99.00    99.00
10  4 27  3    15.0 1   199.0     0.50    16.10    99.00    99.00
10  4 27  4    15.0 1   190.0     1.00    15.80    99.00    99.00
10  4 27  5    15.0 1   207.0     1.00    15.50    99.00    99.00
10  4 27  6    15.0 1   161.0     1.00    15.30    99.00    99.00
10  4 27  7    15.0 1   149.0     1.00    15.10    99.00    99.00
10  4 27  8    15.0 1     0.0     0.00    15.80    99.00    99.00
10  4 27  9    15.0 1     0.0     0.00    17.60    99.00    99.00
10  4 27 10    15.0 1     0.0     0.00    19.50    99.00    99.00
10  4 27 11    15.0 1    72.0     0.50    21.30    99.00    99.00
10  4 27 12    15.0 1     0.0     0.00    22.80    99.00    99.00
10  4 27 13    15.0 1   289.0     1.00    23.60    99.00    99.00
10  4 27 14    15.0 1   286.0     3.60    23.80    99.00    99.00
10  4 27 15    15.0 1   290.0     3.10    22.80    99.00    99.00
10  4 27 16    15.0 1   278.0     4.10    21.90    99.00    99.00
10  4 27 17    15.0 1   278.0     3.60    21.10    99.00    99.00
10  4 27 18    15.0 1   274.0     4.60    19.30    99.00    99.00
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10  4 27 19     15.0 1   276.0      4.10     17.50     99.00     99.00
10  4 27 20     15.0 1   279.0      4.10     16.40     99.00     99.00
10  4 27 21     15.0 1   276.0      4.60     15.30     99.00     99.00
10  4 27 22     15.0 1   287.0      4.10     14.40     99.00     99.00
10  4 27 23     15.0 1   288.0      3.60     13.60     99.00     99.00
10  4 27 24     15.0 1   289.0      3.60     13.00     99.00     99.00
10  4 28  1     15.0 1   292.0      3.10     12.40     99.00     99.00
10  4 28  2     15.0 1   291.0      3.10     12.00     99.00     99.00
10  4 28  3     15.0 1   280.0      3.10     11.60     99.00     99.00
10  4 28  4     15.0 1   284.0      2.60     11.50     99.00     99.00
10  4 28  5     15.0 1   285.0      2.60     11.40     99.00     99.00
10  4 28  6     15.0 1   292.0      3.10     11.00     99.00     99.00
10  4 28  7     15.0 1   287.0      4.10     11.00     99.00     99.00
10  4 28  8     15.0 1   302.0      3.60     11.50     99.00     99.00
10  4 28  9     15.0 1   298.0      3.10     12.10     99.00     99.00
10  4 28 10     15.0 1   294.0      1.50     13.30     99.00     99.00
10  4 28 11     15.0 1   278.0      0.50     14.30     99.00     99.00
10  4 28 12     15.0 1   293.0      1.00     15.30     99.00     99.00
10  4 28 13     15.0 1   287.0      2.10     16.40     99.00     99.00
10  4 28 14     15.0 1   297.0      2.60     17.60     99.00     99.00
10  4 28 15     15.0 1   305.0      4.60     18.10     99.00     99.00
10  4 28 16     15.0 1   304.0      5.70     18.30     99.00     99.00
10  4 28 17     15.0 1   289.0      4.60     17.80     99.00     99.00
10  4 28 18     15.0 1   266.0      5.10     16.10     99.00     99.00
10  4 28 19     15.0 1   275.0      5.70     13.50     99.00     99.00
10  4 28 20     15.0 1   277.0      5.70     12.00     99.00     99.00
10  4 28 21     15.0 1   290.0      5.10     10.90     99.00     99.00
10  4 28 22     15.0 1   295.0      4.60     10.00     99.00     99.00
10  4 28 23     15.0 1   291.0      4.10      9.10     99.00     99.00
10  4 28 24     15.0 1   293.0      4.10      8.90     99.00     99.00
10  4 29  1     15.0 1   300.0      4.10      8.40     99.00     99.00
10  4 29  2     15.0 1   297.0      3.60      7.90     99.00     99.00
10  4 29  3     15.0 1   300.0      3.60      7.40     99.00     99.00
10  4 29  4     15.0 1   310.0      4.10      7.40     99.00     99.00
10  4 29  5     15.0 1   309.0      4.10      7.10     99.00     99.00
10  4 29  6     15.0 1   321.0      4.10      7.00     99.00     99.00
10  4 29  7     15.0 1   329.0      5.70      8.60     99.00     99.00
10  4 29  8     15.0 1   337.0      5.10      9.90     99.00     99.00
10  4 29  9     15.0 1   335.0      4.60     11.10     99.00     99.00
10  4 29 10     15.0 1   329.0      4.60     12.30     99.00     99.00
10  4 29 11     15.0 1   326.0      5.10     13.60     99.00     99.00
10  4 29 12     15.0 1   334.0      6.20     14.60     99.00     99.00
10  4 29 13     15.0 1   330.0      7.20     15.50     99.00     99.00
10  4 29 14     15.0 1   329.0      7.70     16.10     99.00     99.00
10  4 29 15     15.0 1   330.0      7.70     16.30     99.00     99.00
10  4 29 16     15.0 1   333.0      7.70     16.30     99.00     99.00
10  4 29 17     15.0 1   342.0      6.20     15.90     99.00     99.00
10  4 29 18     15.0 1   345.0      4.10     14.80     99.00     99.00
10  4 29 19     15.0 1   334.0      4.10     13.10     99.00     99.00
10  4 29 20     15.0 1   331.0      4.10     11.90     99.00     99.00
10  4 29 21     15.0 1   317.0      4.10     11.10     99.00     99.00
10  4 29 22     15.0 1   307.0      3.60     10.40     99.00     99.00
10  4 29 23     15.0 1   297.0      2.60     10.00     99.00     99.00
10  4 29 24     15.0 1   290.0      3.10      9.50     99.00     99.00
10  4 30  1     15.0 1   286.0      3.60      8.80     99.00     99.00
10  4 30  2     15.0 1   299.0      3.60      8.10     99.00     99.00
10  4 30  3     15.0 1   297.0      3.10      7.60     99.00     99.00
10  4 30  4     15.0 1   288.0      1.50      7.30     99.00     99.00
10  4 30  5     15.0 1   299.0      1.50      7.10     99.00     99.00
10  4 30  6     15.0 1   282.0      0.50      6.80     99.00     99.00
10  4 30  7     15.0 1   347.0      1.50      8.60     99.00     99.00
10  4 30  8     15.0 1   353.0      1.50     10.90     99.00     99.00
10  4 30  9     15.0 1   348.0      1.00     12.80     99.00     99.00
10  4 30 10     15.0 1   344.0      1.00     14.50     99.00     99.00
10  4 30 11     15.0 1   337.0      1.00     15.90     99.00     99.00
10  4 30 12     15.0 1   338.0      1.50     17.10     99.00     99.00
10  4 30 13     15.0 1   339.0      2.10     18.10     99.00     99.00
10  4 30 14     15.0 1   337.0      3.10     18.90     99.00     99.00
10  4 30 15     15.0 1   343.0      3.60     19.30     99.00     99.00
10  4 30 16     15.0 1   348.0      4.60     19.50     99.00     99.00
10  4 30 17     15.0 1   348.0      4.60     19.30     99.00     99.00
10  4 30 18     15.0 1   342.0      3.10     18.30     99.00     99.00
10  4 30 19     15.0 1   332.0      3.60     16.80     99.00     99.00
10  4 30 20     15.0 1   322.0      4.10     15.40     99.00     99.00
10  4 30 21     15.0 1   325.0      3.60     14.30     99.00     99.00
10  4 30 22     15.0 1   325.0      3.10     13.60     99.00     99.00
10  4 30 23     15.0 1   303.0      2.10     12.90     99.00     99.00
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10  4 30 24    15.0 1   289.0     1.00    12.10    99.00    99.00
10  5  1  1    15.0 1   250.0     0.50    11.60    99.00    99.00
10  5  1  2    15.0 1   242.0     0.50    11.10    99.00    99.00
10  5  1  3    15.0 1   254.0     0.50    10.80    99.00    99.00
10  5  1  4    15.0 1   265.0     1.00    10.30    99.00    99.00
10  5  1  5    15.0 1   261.0     1.50     9.60    99.00    99.00
10  5  1  6    15.0 1   255.0     1.50     9.10    99.00    99.00
10  5  1  7    15.0 1   316.0     1.50    10.60    99.00    99.00
10  5  1  8    15.0 1   341.0     0.50    12.60    99.00    99.00
10  5  1  9    15.0 1     0.0     0.00    14.40    99.00    99.00
10  5  1 10    15.0 1     0.0     0.00    16.10    99.00    99.00
10  5  1 11    15.0 1     0.0     0.00    17.90    99.00    99.00
10  5  1 12    15.0 1   288.0     0.50    19.50    99.00    99.00
10  5  1 13    15.0 1   323.0     1.50    20.80    99.00    99.00
10  5  1 14    15.0 1   352.0     2.60    21.60    99.00    99.00
10  5  1 15    15.0 1     2.0     4.10    22.00    99.00    99.00
10  5  1 16    15.0 1   360.0     4.60    22.00    99.00    99.00
10  5  1 17    15.0 1   346.0     3.60    21.60    99.00    99.00
10  5  1 18    15.0 1   331.0     3.10    21.00    99.00    99.00
10  5  1 19    15.0 1   321.0     3.60    20.10    99.00    99.00
10  5  1 20    15.0 1   310.0     3.60    18.80    99.00    99.00
10  5  1 21    15.0 1   308.0     3.60    18.00    99.00    99.00
10  5  1 22    15.0 1   300.0     3.60    17.30    99.00    99.00
10  5  1 23    15.0 1   297.0     3.60    16.30    99.00    99.00
10  5  1 24    15.0 1   300.0     3.60    15.10    99.00    99.00
10  5  2  1    15.0 1   302.0     3.60    14.50    99.00    99.00
10  5  2  2    15.0 1   305.0     3.60    13.90    99.00    99.00
10  5  2  3    15.0 1   298.0     3.10    13.30    99.00    99.00
10  5  2  4    15.0 1   278.0     2.60    12.80    99.00    99.00
10  5  2  5    15.0 1   264.0     2.60    12.40    99.00    99.00
10  5  2  6    15.0 1   246.0     1.50    12.00    99.00    99.00
10  5  2  7    15.0 1   353.0     2.10    13.10    99.00    99.00
10  5  2  8    15.0 1    16.0     0.50    15.10    99.00    99.00
10  5  2  9    15.0 1     0.0     0.00    17.00    99.00    99.00
10  5  2 10    15.0 1     0.0     0.00    19.00    99.00    99.00
10  5  2 11    15.0 1     0.0     0.00    20.90    99.00    99.00
10  5  2 12    15.0 1   316.0     0.50    22.10    99.00    99.00
10  5  2 13    15.0 1   346.0     1.00    23.50    99.00    99.00
10  5  2 14    15.0 1     2.0     1.50    24.40    99.00    99.00
10  5  2 15    15.0 1     0.0     0.00    25.00    99.00    99.00
10  5  2 16    15.0 1     0.0     0.00    25.10    99.00    99.00
10  5  2 17    15.0 1    15.0     2.60    24.90    99.00    99.00
10  5  2 18    15.0 1    21.0     2.60    24.30    99.00    99.00
10  5  2 19    15.0 1    34.0     2.10    23.30    99.00    99.00
10  5  2 20    15.0 1    38.0     1.00    21.90    99.00    99.00
10  5  2 21    15.0 1     0.0     0.00    20.30    99.00    99.00
10  5  2 22    15.0 1   146.0     0.50    18.60    99.00    99.00
10  5  2 23    15.0 1   164.0     1.50    17.40    99.00    99.00
10  5  2 24    15.0 1   148.0     1.00    16.40    99.00    99.00
10  5  3  1    15.0 1   141.0     1.50    15.60    99.00    99.00
10  5  3  2    15.0 1   142.0     1.50    15.00    99.00    99.00
10  5  3  3    15.0 1   181.0     1.00    14.50    99.00    99.00
10  5  3  4    15.0 1   261.0     2.10    14.00    99.00    99.00
10  5  3  5    15.0 1   288.0     3.60    13.40    99.00    99.00
10  5  3  6    15.0 1   301.0     3.10    12.80    99.00    99.00
10  5  3  7    15.0 1   317.0     2.10    14.40    99.00    99.00
10  5  3  8    15.0 1   320.0     1.00    16.40    99.00    99.00
10  5  3  9    15.0 1     0.0     0.00    19.10    99.00    99.00
10  5  3 10    15.0 1     0.0     0.00    21.60    99.00    99.00
10  5  3 11    15.0 1     0.0     0.00    23.50    99.00    99.00
10  5  3 12    15.0 1     0.0     0.00    25.10    99.00    99.00
10  5  3 13    15.0 1     0.0     0.00    26.50    99.00    99.00
10  5  3 14    15.0 1     7.0     0.50    27.40    99.00    99.00
10  5  3 15    15.0 1    14.0     1.00    28.00    99.00    99.00
10  5  3 16    15.0 1    16.0     2.60    28.10    99.00    99.00
10  5  3 17    15.0 1    18.0     2.60    27.10    99.00    99.00
10  5  3 18    15.0 1    21.0     3.10    26.30    99.00    99.00
10  5  3 19    15.0 1   346.0     2.60    25.30    99.00    99.00
10  5  3 20    15.0 1   276.0     3.60    24.10    99.00    99.00
10  5  3 21    15.0 1   268.0     5.10    20.10    99.00    99.00
10  5  3 22    15.0 1   271.0     4.60    18.00    99.00    99.00
10  5  3 23    15.0 1   266.0     4.10    17.10    99.00    99.00
10  5  3 24    15.0 1   276.0     4.10    16.80    99.00    99.00
10  5  4  1    15.0 1   307.0     3.60    16.10    99.00    99.00
10  5  4  2    15.0 1   340.0     3.10    15.50    99.00    99.00
10  5  4  3    15.0 1     0.0     0.00    15.10    99.00    99.00
10  5  4  4    15.0 1    54.0     0.50    14.80    99.00    99.00
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10  5  4  5    15.0 1    22.0     0.50    14.60    99.00    99.00
10  5  4  6    15.0 1     0.0     0.00    14.40    99.00    99.00
10  5  4  7    15.0 1   346.0     1.50    15.60    99.00    99.00
10  5  4  8    15.0 1   349.0     0.50    17.40    99.00    99.00
10  5  4  9    15.0 1     0.0     0.00    19.00    99.00    99.00
10  5  4 10    15.0 1     0.0     0.00    20.60    99.00    99.00
10  5  4 11    15.0 1   304.0     0.50    22.30    99.00    99.00
10  5  4 12    15.0 1   296.0     1.00    23.50    99.00    99.00
10  5  4 13    15.0 1   318.0     1.50    24.60    99.00    99.00
10  5  4 14    15.0 1   335.0     2.60    25.50    99.00    99.00
10  5  4 15    15.0 1   341.0     3.60    25.80    99.00    99.00
10  5  4 16    15.0 1   352.0     4.60    25.60    99.00    99.00
10  5  4 17    15.0 1     1.0     3.60    25.00    99.00    99.00
10  5  4 18    15.0 1   348.0     3.60    23.80    99.00    99.00
10  5  4 19    15.0 1   338.0     4.10    21.60    99.00    99.00
10  5  4 20    15.0 1   330.0     4.10    19.60    99.00    99.00
10  5  4 21    15.0 1   327.0     3.60    18.40    99.00    99.00
10  5  4 22    15.0 1   321.0     3.10    17.60    99.00    99.00
10  5  4 23    15.0 1   308.0     2.60    17.00    99.00    99.00
10  5  4 24    15.0 1   308.0     2.60    16.10    99.00    99.00
10  5  5  1    15.0 1   317.0     1.50    15.40    99.00    99.00
10  5  5  2    15.0 1   322.0     1.00    14.80    99.00    99.00
10  5  5  3    15.0 1   325.0     1.00    14.10    99.00    99.00
10  5  5  4    15.0 1   331.0     1.00    13.60    99.00    99.00
10  5  5  5    15.0 1   338.0     1.00    13.00    99.00    99.00
10  5  5  6    15.0 1   344.0     0.50    12.60    99.00    99.00
10  5  5  7    15.0 1   353.0     2.10    13.90    99.00    99.00
10  5  5  8    15.0 1   344.0     2.10    15.30    99.00    99.00
10  5  5  9    15.0 1   333.0     1.50    16.60    99.00    99.00
10  5  5 10    15.0 1   329.0     2.10    18.10    99.00    99.00
10  5  5 11    15.0 1   333.0     2.60    19.40    99.00    99.00
10  5  5 12    15.0 1   330.0     3.10    20.50    99.00    99.00
10  5  5 13    15.0 1   343.0     4.10    21.40    99.00    99.00
10  5  5 14    15.0 1   341.0     4.60    21.90    99.00    99.00
10  5  5 15    15.0 1   345.0     5.70    22.00    99.00    99.00
10  5  5 16    15.0 1   344.0     6.20    21.80    99.00    99.00
10  5  5 17    15.0 1   340.0     5.10    21.10    99.00    99.00
10  5  5 18    15.0 1   327.0     3.60    19.90    99.00    99.00
10  5  5 19    15.0 1   323.0     4.10    18.10    99.00    99.00
10  5  5 20    15.0 1   317.0     4.10    16.60    99.00    99.00
10  5  5 21    15.0 1   319.0     3.60    15.60    99.00    99.00
10  5  5 22    15.0 1   312.0     3.10    15.10    99.00    99.00
10  5  5 23    15.0 1   314.0     2.60    14.30    99.00    99.00
10  5  5 24    15.0 1   308.0     2.60    13.50    99.00    99.00
10  5  6  1    15.0 1   305.0     2.60    12.60    99.00    99.00
10  5  6  2    15.0 1   302.0     2.10    12.00    99.00    99.00
10  5  6  3    15.0 1   297.0     1.50    11.40    99.00    99.00
10  5  6  4    15.0 1   283.0     1.50    10.80    99.00    99.00
10  5  6  5    15.0 1   280.0     1.50    10.30    99.00    99.00
10  5  6  6    15.0 1   278.0     1.50    10.00    99.00    99.00
10  5  6  7    15.0 1   332.0     2.10    11.50    99.00    99.00
10  5  6  8    15.0 1   335.0     1.50    13.30    99.00    99.00
10  5  6  9    15.0 1   317.0     0.50    14.90    99.00    99.00
10  5  6 10    15.0 1     0.0     0.00    16.50    99.00    99.00
10  5  6 11    15.0 1   292.0     0.50    18.10    99.00    99.00
10  5  6 12    15.0 1   299.0     1.00    19.50    99.00    99.00
10  5  6 13    15.0 1   314.0     1.00    20.60    99.00    99.00
10  5  6 14    15.0 1   330.0     1.50    21.60    99.00    99.00
10  5  6 15    15.0 1   338.0     2.60    22.30    99.00    99.00
10  5  6 16    15.0 1   353.0     3.60    22.50    99.00    99.00
10  5  6 17    15.0 1     2.0     3.60    22.10    99.00    99.00
10  5  6 18    15.0 1     1.0     2.60    21.10    99.00    99.00
10  5  6 19    15.0 1   344.0     3.60    20.40    99.00    99.00
10  5  6 20    15.0 1   333.0     3.60    18.90    99.00    99.00
10  5  6 21    15.0 1   318.0     3.10    17.60    99.00    99.00
10  5  6 22    15.0 1   321.0     2.10    16.40    99.00    99.00
10  5  6 23    15.0 1   311.0     2.10    15.10    99.00    99.00
10  5  6 24    15.0 1   328.0     2.10    14.00    99.00    99.00
10  5  7  1    15.0 1   334.0     2.10    13.10    99.00    99.00
10  5  7  2    15.0 1   308.0     1.50    12.30    99.00    99.00
10  5  7  3    15.0 1   282.0     1.00    11.60    99.00    99.00
10  5  7  4    15.0 1   271.0     1.00    11.00    99.00    99.00
10  5  7  5    15.0 1   263.0     0.50    10.50    99.00    99.00
10  5  7  6    15.0 1   257.0     1.00    10.10    99.00    99.00
10  5  7  7    15.0 1   325.0     1.50    11.60    99.00    99.00
10  5  7  8    15.0 1   322.0     0.50    13.30    99.00    99.00
10  5  7  9    15.0 1     0.0     0.00    15.40    99.00    99.00
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10  5  7 10    15.0 1     0.0     0.00    17.10    99.00    99.00
10  5  7 11    15.0 1     0.0     0.00    18.80    99.00    99.00
10  5  7 12    15.0 1   306.0     0.50    20.30    99.00    99.00
10  5  7 13    15.0 1   327.0     1.00    21.50    99.00    99.00
10  5  7 14    15.0 1   344.0     1.50    22.40    99.00    99.00
10  5  7 15    15.0 1   359.0     2.60    22.90    99.00    99.00
10  5  7 16    15.0 1     6.0     3.10    22.60    99.00    99.00
10  5  7 17    15.0 1    18.0     2.10    21.90    99.00    99.00
10  5  7 18    15.0 1    19.0     1.50    21.50    99.00    99.00
10  5  7 19    15.0 1   336.0     0.50    20.60    99.00    99.00
10  5  7 20    15.0 1   229.0     0.50    19.40    99.00    99.00
10  5  7 21    15.0 1   231.0     1.00    18.10    99.00    99.00
10  5  7 22    15.0 1   238.0     1.50    17.10    99.00    99.00
10  5  7 23    15.0 1   276.0     2.10    16.40    99.00    99.00
10  5  7 24    15.0 1   333.0     3.60    15.40    99.00    99.00
10  5  8  1    15.0 1   353.0     3.60    14.40    99.00    99.00
10  5  8  2    15.0 1     0.0     0.00    13.60    99.00    99.00
10  5  8  3    15.0 1   357.0     2.60    12.90    99.00    99.00
10  5  8  4    15.0 1   339.0     2.10    12.10    99.00    99.00
10  5  8  5    15.0 1   337.0     1.50    11.50    99.00    99.00
10  5  8  6    15.0 1     0.0     0.00    11.00    99.00    99.00
10  5  8  7    15.0 1   359.0     1.50    12.10    99.00    99.00
10  5  8  8    15.0 1     0.0     0.00    13.80    99.00    99.00
10  5  8  9    15.0 1     0.0     0.00    15.50    99.00    99.00
10  5  8 10    15.0 1     0.0     0.00    17.30    99.00    99.00
10  5  8 11    15.0 1     0.0     0.00    19.10    99.00    99.00
10  5  8 12    15.0 1     0.0     0.00    20.60    99.00    99.00
10  5  8 13    15.0 1   314.0     0.50    22.00    99.00    99.00
10  5  8 14    15.0 1   339.0     1.50    22.90    99.00    99.00
10  5  8 15    15.0 1   346.0     2.60    23.50    99.00    99.00
10  5  8 16    15.0 1     0.0     0.00    23.60    99.00    99.00
10  5  8 17    15.0 1     8.0     4.10    23.10    99.00    99.00
10  5  8 18    15.0 1     0.0     0.00    22.30    99.00    99.00
10  5  8 19    15.0 1   346.0     3.60    21.10    99.00    99.00
10  5  8 20    15.0 1   329.0     4.10    19.60    99.00    99.00
10  5  8 21    15.0 1   305.0     4.10    18.10    99.00    99.00
10  5  8 22    15.0 1   282.0     4.60    16.10    99.00    99.00
10  5  8 23    15.0 1   291.0     4.10    14.60    99.00    99.00
10  5  8 24    15.0 1   302.0     3.60    13.50    99.00    99.00
10  5  9  1    15.0 1   302.0     3.60    12.60    99.00    99.00
10  5  9  2    15.0 1   325.0     2.60    12.00    99.00    99.00
10  5  9  3    15.0 1   303.0     2.10    11.60    99.00    99.00
10  5  9  4    15.0 1   265.0     2.10    11.30    99.00    99.00
10  5  9  5    15.0 1   259.0     3.10    11.00    99.00    99.00
10  5  9  6    15.0 1   273.0     3.10    11.00    99.00    99.00
10  5  9  7    15.0 1   276.0     2.60    11.30    99.00    99.00
10  5  9  8    15.0 1   276.0     2.60    11.50    99.00    99.00
10  5  9  9    15.0 1   295.0     2.10    11.90    99.00    99.00
10  5  9 10    15.0 1   276.0     1.00    12.40    99.00    99.00
10  5  9 11    15.0 1   261.0     0.50    13.10    99.00    99.00
10  5  9 12    15.0 1   286.0     1.00    14.60    99.00    99.00
10  5  9 13    15.0 1   293.0     1.50    15.40    99.00    99.00
10  5  9 14    15.0 1   296.0     2.60    16.60    99.00    99.00
10  5  9 15    15.0 1   292.0     4.60    17.10    99.00    99.00
10  5  9 16    15.0 1   280.0     5.70    17.00    99.00    99.00
10  5  9 17    15.0 1   288.0     5.10    16.80    99.00    99.00
10  5  9 18    15.0 1   304.0     3.10    16.10    99.00    99.00
10  5  9 19    15.0 1   298.0     3.10    14.60    99.00    99.00
10  5  9 20    15.0 1   297.0     3.10    13.90    99.00    99.00
10  5  9 21    15.0 1   303.0     3.10    13.30    99.00    99.00
10  5  9 22    15.0 1   300.0     3.10    12.90    99.00    99.00
10  5  9 23    15.0 1   299.0     3.10    12.50    99.00    99.00
10  5  9 24    15.0 1   293.0     3.10    11.60    99.00    99.00
10  5 10  1    15.0 1   281.0     3.10    11.00    99.00    99.00
10  5 10  2    15.0 1   285.0     3.10    10.30    99.00    99.00
10  5 10  3    15.0 1   276.0     3.60     9.90    99.00    99.00
10  5 10  4    15.0 1   288.0     3.60     9.60    99.00    99.00
10  5 10  5    15.0 1   286.0     3.10     9.80    99.00    99.00
10  5 10  6    15.0 1   276.0     3.10     9.80    99.00    99.00
10  5 10  7    15.0 1   280.0     3.10     9.80    99.00    99.00
10  5 10  8    15.0 1   282.0     2.60    10.60    99.00    99.00
10  5 10  9    15.0 1     0.0     0.00    12.50    99.00    99.00
10  5 10 10    15.0 1     0.0     0.00    14.60    99.00    99.00
10  5 10 11    15.0 1    85.0     0.50    15.50    99.00    99.00
10  5 10 12    15.0 1     0.0     0.00    17.00    99.00    99.00
10  5 10 13    15.0 1     0.0     0.00    17.90    99.00    99.00
10  5 10 14    15.0 1     0.0     0.00    19.00    99.00    99.00
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10  5 10 15    15.0 1   292.0     2.60    19.60    99.00    99.00
10  5 10 16    15.0 1   287.0     6.20    18.80    99.00    99.00
10  5 10 17    15.0 1   297.0     5.10    17.40    99.00    99.00
10  5 10 18    15.0 1   285.0     4.10    16.50    99.00    99.00
10  5 10 19    15.0 1   266.0     5.70    14.60    99.00    99.00
10  5 10 20    15.0 1   282.0     5.10    12.50    99.00    99.00
10  5 10 21    15.0 1   283.0     4.60    11.60    99.00    99.00
10  5 10 22    15.0 1   278.0     4.10    11.10    99.00    99.00
10  5 10 23    15.0 1   293.0     4.60    10.30    99.00    99.00
10  5 10 24    15.0 1   295.0     4.60     9.60    99.00    99.00
10  5 11  1    15.0 1   297.0     4.10     9.00    99.00    99.00
10  5 11  2    15.0 1   297.0     3.60     8.40    99.00    99.00
10  5 11  3    15.0 1   296.0     3.60     7.90    99.00    99.00
10  5 11  4    15.0 1   315.0     3.10     7.40    99.00    99.00
10  5 11  5    15.0 1   312.0     3.10     7.00    99.00    99.00
10  5 11  6    15.0 1   308.0     2.60     7.10    99.00    99.00
10  5 11  7    15.0 1   327.0     4.10     9.10    99.00    99.00
10  5 11  8    15.0 1   329.0     3.60    10.60    99.00    99.00
10  5 11  9    15.0 1   334.0     3.60    12.00    99.00    99.00
10  5 11 10    15.0 1   326.0     4.10    13.50    99.00    99.00
10  5 11 11    15.0 1   335.0     5.10    14.80    99.00    99.00
10  5 11 12    15.0 1   333.0     6.20    16.10    99.00    99.00
10  5 11 13    15.0 1   343.0     6.70    17.10    99.00    99.00
10  5 11 14    15.0 1   327.0     6.70    17.80    99.00    99.00
10  5 11 15    15.0 1   345.0     6.70    18.40    99.00    99.00
10  5 11 16    15.0 1   342.0     6.20    18.80    99.00    99.00
10  5 11 17    15.0 1   336.0     5.10    18.80    99.00    99.00
10  5 11 18    15.0 1   342.0     3.10    18.10    99.00    99.00
10  5 11 19    15.0 1   345.0     2.60    17.60    99.00    99.00
10  5 11 20    15.0 1   334.0     1.00    16.60    99.00    99.00
10  5 11 21    15.0 1     0.0     0.00    16.10    99.00    99.00
10  5 11 22    15.0 1   334.0     0.50    15.40    99.00    99.00
10  5 11 23    15.0 1   262.0     2.10    13.80    99.00    99.00
10  5 11 24    15.0 1   268.0     3.10    12.60    99.00    99.00
10  5 12  1    15.0 1   276.0     3.10    11.90    99.00    99.00
10  5 12  2    15.0 1   289.0     2.60    11.30    99.00    99.00
10  5 12  3    15.0 1   302.0     1.50    10.90    99.00    99.00
10  5 12  4    15.0 1   302.0     1.00    10.40    99.00    99.00
10  5 12  5    15.0 1   279.0     0.50     9.80    99.00    99.00
10  5 12  6    15.0 1   226.0     0.50     9.60    99.00    99.00
10  5 12  7    15.0 1   339.0     0.50    11.60    99.00    99.00
10  5 12  8    15.0 1     8.0     0.50    13.90    99.00    99.00
10  5 12  9    15.0 1     0.0     0.00    15.60    99.00    99.00
10  5 12 10    15.0 1     0.0     0.00    17.40    99.00    99.00
10  5 12 11    15.0 1     0.0     0.00    19.00    99.00    99.00
10  5 12 12    15.0 1   292.0     0.50    20.40    99.00    99.00
10  5 12 13    15.0 1   325.0     1.00    21.60    99.00    99.00
10  5 12 14    15.0 1   336.0     2.10    22.50    99.00    99.00
10  5 12 15    15.0 1   354.0     3.10    22.90    99.00    99.00
10  5 12 16    15.0 1     0.0     0.00    22.80    99.00    99.00
10  5 12 17    15.0 1    13.0     3.60    22.50    99.00    99.00
10  5 12 18    15.0 1     7.0     2.60    21.90    99.00    99.00
10  5 12 19    15.0 1   355.0     1.50    21.10    99.00    99.00
10  5 12 20    15.0 1   302.0     1.00    20.10    99.00    99.00
10  5 12 21    15.0 1   249.0     1.50    19.00    99.00    99.00
10  5 12 22    15.0 1   252.0     2.10    17.90    99.00    99.00
10  5 12 23    15.0 1   214.0     0.50    16.90    99.00    99.00
10  5 12 24    15.0 1   107.0     0.50    15.80    99.00    99.00
10  5 13  1    15.0 1   298.0     0.50    14.90    99.00    99.00
10  5 13  2    15.0 1   293.0     1.50    14.30    99.00    99.00
10  5 13  3    15.0 1   300.0     2.60    13.40    99.00    99.00
10  5 13  4    15.0 1   286.0     2.10    12.60    99.00    99.00
10  5 13  5    15.0 1   278.0     2.10    12.00    99.00    99.00
10  5 13  6    15.0 1   287.0     2.10    11.60    99.00    99.00
10  5 13  7    15.0 1   334.0     2.60    13.10    99.00    99.00
10  5 13  8    15.0 1   319.0     0.50    15.10    99.00    99.00
10  5 13  9    15.0 1     0.0     0.00    17.50    99.00    99.00
10  5 13 10    15.0 1     0.0     0.00    19.60    99.00    99.00
10  5 13 11    15.0 1     0.0     0.00    21.50    99.00    99.00
10  5 13 12    15.0 1     0.0     0.00    23.00    99.00    99.00
10  5 13 13    15.0 1     0.0     0.00    24.30    99.00    99.00
10  5 13 14    15.0 1     0.0     0.00    25.30    99.00    99.00
10  5 13 15    15.0 1   335.0     0.50    26.00    99.00    99.00
10  5 13 16    15.0 1     2.0     1.50    26.10    99.00    99.00
10  5 13 17    15.0 1    12.0     3.10    25.80    99.00    99.00
10  5 13 18    15.0 1    12.0     3.60    24.50    99.00    99.00
10  5 13 19    15.0 1   358.0     3.60    23.40    99.00    99.00
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10   5 13 20     15.0 1   321.0     2.60    22.50    99.00    99.00
10   5 13 21     15.0 1   269.0     5.10    19.50    99.00    99.00
10   5 13 22     15.0 1   272.0     3.60    17.10    99.00    99.00
10   5 13 23     15.0 1   267.0     1.50    17.00    99.00    99.00
10   5 13 24     15.0 1     0.0     0.00    16.90    99.00    99.00
10   5 14  1     15.0 1   148.0     0.50    16.30    99.00    99.00
10   5 14  2     15.0 1   225.0     1.50    15.60    99.00    99.00
10   5 14  3     15.0 1   254.0     3.10    15.10    99.00    99.00
10   5 14  4     15.0 1   268.0     3.60    14.10    99.00    99.00
10   5 14  5     15.0 1   281.0     3.10    13.30    99.00    99.00
10   5 14  6     15.0 1   280.0     2.60    12.80    99.00    99.00
10   5 14  7     15.0 1   312.0     2.60    14.50    99.00    99.00
10   5 14  8     15.0 1   294.0     1.50    16.50    99.00    99.00
10   5 14  9     15.0 1   274.0     1.00    19.10    99.00    99.00
10   5 14 10     15.0 1   283.0     0.50    21.50    99.00    99.00
10   5 14 11     15.0 1     0.0     0.00    23.50    99.00    99.00
10   5 14 12     15.0 1     0.0     0.00    25.00    99.00    99.00
10   5 14 13     15.0 1     0.0     0.00    26.10    99.00    99.00
10   5 14 14     15.0 1   340.0     1.00    26.90    99.00    99.00
10   5 14 15     15.0 1     0.0     0.00    27.40    99.00    99.00
10   5 14 16     15.0 1    11.0     3.10    27.50    99.00    99.00
10   5 14 17     15.0 1    14.0     3.10    26.80    99.00    99.00
10   5 14 18     15.0 1    13.0     3.10    25.90    99.00    99.00
10   5 14 19     15.0 1     8.0     3.10    25.00    99.00    99.00
10   5 14 20     15.0 1   325.0     1.00    23.60    99.00    99.00
10   5 14 21     15.0 1   260.0     5.10    20.50    99.00    99.00
10   5 14 22     15.0 1   275.0     3.60    17.90    99.00    99.00
10   5 14 23     15.0 1   273.0     3.10    17.40    99.00    99.00
10   5 14 24     15.0 1   264.0     3.10    17.10    99.00    99.00
10   5 15  1     15.0 1   270.0     1.00    16.60    99.00    99.00
10   5 15  2     15.0 1   291.0     0.50    16.30    99.00    99.00
10   5 15  3     15.0 1   285.0     1.50    15.40    99.00    99.00
10   5 15  4     15.0 1   281.0     2.10    14.50    99.00    99.00
10   5 15  5     15.0 1   290.0     2.60    13.90    99.00    99.00
10   5 15  6     15.0 1   292.0     2.60    13.40    99.00    99.00
10   5 15  7     15.0 1   321.0     2.10    14.60    99.00    99.00
10   5 15  8     15.0 1   295.0     1.00    16.60    99.00    99.00
10   5 15  9     15.0 1   261.0     0.50    19.60    99.00    99.00
10   5 15 10     15.0 1     0.0     0.00    21.80    99.00    99.00
10   5 15 11     15.0 1     0.0     0.00    24.10    99.00    99.00
10   5 15 12     15.0 1     0.0     0.00    25.90    99.00    99.00
10   5 15 13     15.0 1     0.0     0.00    27.40    99.00    99.00
10   5 15 14     15.0 1   332.0     0.50    28.50    99.00    99.00
10   5 15 15     15.0 1   352.0     1.00    29.10    99.00    99.00
10   5 15 16     15.0 1   353.0     2.10    29.80    99.00    99.00
10   5 15 17     15.0 1     8.0     3.10    28.90    99.00    99.00
10   5 15 18     15.0 1    19.0     3.60    27.30    99.00    99.00
10   5 15 19     15.0 1   335.0     3.10    26.40    99.00    99.00
10   5 15 20     15.0 1   267.0     5.10    22.90    99.00    99.00
10   5 15 21     15.0 1   273.0     4.60    20.30    99.00    99.00
10   5 15 22     15.0 1   269.0     4.10    18.90    99.00    99.00
10   5 15 23     15.0 1   266.0     3.10    18.00    99.00    99.00
10   5 15 24     15.0 1   252.0     0.50    17.50    99.00    99.00
10   5 16  1     15.0 1    89.0     1.50    17.30    99.00    99.00
10   5 16  2     15.0 1    24.0     0.50    16.60    99.00    99.00
10   5 16  3     15.0 1   266.0     0.50    16.10    99.00    99.00
10   5 16  4     15.0 1   267.0     1.50    15.60    99.00    99.00
10   5 16  5     15.0 1   281.0     2.10    15.10    99.00    99.00
10   5 16  6     15.0 1   298.0     2.10    14.90    99.00    99.00
10   5 16  7     15.0 1   326.0     2.10    16.60    99.00    99.00
10   5 16  8     15.0 1   327.0     1.00    18.30    99.00    99.00
10   5 16  9     15.0 1     0.0     0.00    20.00    99.00    99.00
10   5 16 10     15.0 1     0.0     0.00    22.10    99.00    99.00
10   5 16 11     15.0 1     0.0     0.00    24.10    99.00    99.00
10   5 16 12     15.0 1     0.0     0.00    25.80    99.00    99.00
10   5 16 13     15.0 1   319.0     0.50    27.10    99.00    99.00
10   5 16 14     15.0 1   326.0     1.00    28.10    99.00    99.00
10   5 16 15     15.0 1   337.0     2.10    28.80    99.00    99.00
10   5 16 16     15.0 1   348.0     3.10    28.80    99.00    99.00
10   5 16 17     15.0 1   332.0     3.10    27.60    99.00    99.00
10   5 16 18     15.0 1   287.0     5.10    24.50    99.00    99.00
10   5 16 19     15.0 1   277.0     5.10    21.10    99.00    99.00
10   5 16 20     15.0 1   269.0     5.10    19.30    99.00    99.00
10   5 16 21     15.0 1   256.0     4.60    18.00    99.00    99.00
10   5 16 22     15.0 1   275.0     3.60    17.10    99.00    99.00
10   5 16 23     15.0 1   305.0     1.50    16.80    99.00    99.00
10   5 16 24     15.0 1    11.0     0.50    16.50    99.00    99.00
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10  5 17  1    15.0 1   325.0     0.50    16.00    99.00    99.00
10  5 17  2    15.0 1   289.0     1.50    15.40    99.00    99.00
10  5 17  3    15.0 1   300.0     2.10    14.80    99.00    99.00
10  5 17  4    15.0 1   301.0     2.10    14.40    99.00    99.00
10  5 17  5    15.0 1   296.0     2.10    14.10    99.00    99.00
10  5 17  6    15.0 1   315.0     1.50    14.00    99.00    99.00
10  5 17  7    15.0 1   291.0     2.60    14.40    99.00    99.00
10  5 17  8    15.0 1   299.0     2.10    15.10    99.00    99.00
10  5 17  9    15.0 1   307.0     1.50    16.30    99.00    99.00
10  5 17 10    15.0 1     0.0     0.00    17.60    99.00    99.00
10  5 17 11    15.0 1    71.0     0.50    18.90    99.00    99.00
10  5 17 12    15.0 1     0.0     0.00    19.90    99.00    99.00
10  5 17 13    15.0 1     0.0     0.00    21.10    99.00    99.00
10  5 17 14    15.0 1   309.0     0.50    22.00    99.00    99.00
10  5 17 15    15.0 1   293.0     3.60    22.00    99.00    99.00
10  5 17 16    15.0 1   295.0     6.20    20.90    99.00    99.00
10  5 17 17    15.0 1   288.0     6.20    18.90    99.00    99.00
10  5 17 18    15.0 1   314.0     3.60    17.30    99.00    99.00
10  5 17 19    15.0 1     0.0     0.00    17.10    99.00    99.00
10  5 17 20    15.0 1     0.0     0.00    16.90    99.00    99.00
10  5 17 21    15.0 1     5.0     1.50    16.30    99.00    99.00
10  5 17 22    15.0 1    14.0     1.00    15.60    99.00    99.00
10  5 17 23    15.0 1   337.0     1.00    15.30    99.00    99.00
10  5 17 24    15.0 1   351.0     0.50    14.90    99.00    99.00
10  5 18  1    15.0 1    56.0     0.50    14.60    99.00    99.00
10  5 18  2    15.0 1    73.0     1.00    14.50    99.00    99.00
10  5 18  3    15.0 1    54.0     1.00    14.10    99.00    99.00
10  5 18  4    15.0 1   342.0     1.00    13.90    99.00    99.00
10  5 18  5    15.0 1   297.0     1.50    13.30    99.00    99.00
10  5 18  6    15.0 1   286.0     1.50    13.10    99.00    99.00
10  5 18  7    15.0 1   283.0     2.60    13.00    99.00    99.00
10  5 18  8    15.0 1     0.0     0.00    14.10    99.00    99.00
10  5 18  9    15.0 1     0.0     0.00    16.10    99.00    99.00
10  5 18 10    15.0 1     0.0     0.00    17.50    99.00    99.00
10  5 18 11    15.0 1     0.0     0.00    19.00    99.00    99.00
10  5 18 12    15.0 1     0.0     0.00    20.40    99.00    99.00
10  5 18 13    15.0 1     0.0     0.00    21.60    99.00    99.00
10  5 18 14    15.0 1   312.0     0.50    22.40    99.00    99.00
10  5 18 15    15.0 1   335.0     1.50    23.00    99.00    99.00
10  5 18 16    15.0 1   355.0     2.60    23.30    99.00    99.00
10  5 18 17    15.0 1     0.0     0.00    23.30    99.00    99.00
10  5 18 18    15.0 1     7.0     2.60    22.60    99.00    99.00
10  5 18 19    15.0 1    11.0     3.10    22.10    99.00    99.00
10  5 18 20    15.0 1   353.0     3.10    21.10    99.00    99.00
10  5 18 21    15.0 1   341.0     2.60    20.00    99.00    99.00
10  5 18 22    15.0 1   306.0     2.60    18.60    99.00    99.00
10  5 18 23    15.0 1   286.0     2.60    17.30    99.00    99.00
10  5 18 24    15.0 1   304.0     2.60    16.50    99.00    99.00
10  5 19  1    15.0 1   319.0     3.60    15.60    99.00    99.00
10  5 19  2    15.0 1   329.0     3.60    14.60    99.00    99.00
10  5 19  3    15.0 1   344.0     2.60    14.10    99.00    99.00
10  5 19  4    15.0 1   351.0     1.00    13.60    99.00    99.00
10  5 19  5    15.0 1    99.0     0.50    13.10    99.00    99.00
10  5 19  6    15.0 1     0.0     0.00    13.00    99.00    99.00
10  5 19  7    15.0 1    23.0     0.50    14.30    99.00    99.00
10  5 19  8    15.0 1     0.0     0.00    16.00    99.00    99.00
10  5 19  9    15.0 1     0.0     0.00    17.80    99.00    99.00
10  5 19 10    15.0 1     0.0     0.00    19.60    99.00    99.00
10  5 19 11    15.0 1     0.0     0.00    21.30    99.00    99.00
10  5 19 12    15.0 1     0.0     0.00    22.60    99.00    99.00
10  5 19 13    15.0 1   298.0     0.50    23.90    99.00    99.00
10  5 19 14    15.0 1   341.0     1.00    25.00    99.00    99.00
10  5 19 15    15.0 1     0.0     0.00    25.60    99.00    99.00
10  5 19 16    15.0 1    14.0     2.60    25.90    99.00    99.00
10  5 19 17    15.0 1     8.0     3.60    25.60    99.00    99.00
10  5 19 18    15.0 1    12.0     2.60    25.10    99.00    99.00
10  5 19 19    15.0 1     5.0     3.10    24.50    99.00    99.00
10  5 19 20    15.0 1   340.0     3.60    23.50    99.00    99.00
10  5 19 21    15.0 1   332.0     4.10    21.60    99.00    99.00
10  5 19 22    15.0 1   345.0     4.10    19.60    99.00    99.00
10  5 19 23    15.0 1   328.0     4.10    18.30    99.00    99.00
10  5 19 24    15.0 1   335.0     4.10    16.90    99.00    99.00
10  5 20  1    15.0 1   324.0     3.60    15.90    99.00    99.00
10  5 20  2    15.0 1   325.0     3.60    15.10    99.00    99.00
10  5 20  3    15.0 1   309.0     3.10    14.50    99.00    99.00
10  5 20  4    15.0 1   307.0     2.60    14.00    99.00    99.00
10  5 20  5    15.0 1   314.0     2.10    14.10    99.00    99.00
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10  5 20  6    15.0 1   302.0     2.10    14.10    99.00    99.00
10  5 20  7    15.0 1   337.0     4.60    14.80    99.00    99.00
10  5 20  8    15.0 1   340.0     3.10    15.30    99.00    99.00
10  5 20  9    15.0 1   339.0     2.10    15.60    99.00    99.00
10  5 20 10    15.0 1   311.0     1.50    16.60    99.00    99.00
10  5 20 11    15.0 1   304.0     1.50    18.10    99.00    99.00
10  5 20 12    15.0 1   301.0     1.00    19.40    99.00    99.00
10  5 20 13    15.0 1   309.0     1.00    21.30    99.00    99.00
10  5 20 14    15.0 1   317.0     2.60    22.60    99.00    99.00
10  5 20 15    15.0 1   340.0     4.10    23.40    99.00    99.00
10  5 20 16    15.0 1   339.0     5.70    23.40    99.00    99.00
10  5 20 17    15.0 1   340.0     5.10    22.60    99.00    99.00
10  5 20 18    15.0 1   345.0     3.60    21.10    99.00    99.00
10  5 20 19    15.0 1   334.0     4.10    19.40    99.00    99.00
10  5 20 20    15.0 1   326.0     4.10    17.80    99.00    99.00
10  5 20 21    15.0 1   339.0     4.10    16.60    99.00    99.00
10  5 20 22    15.0 1   329.0     3.60    15.80    99.00    99.00
10  5 20 23    15.0 1   298.0     3.60    14.80    99.00    99.00
10  5 20 24    15.0 1   306.0     3.10    13.80    99.00    99.00
10  5 21  1    15.0 1   320.0     2.10    13.10    99.00    99.00
10  5 21  2    15.0 1   322.0     1.50    12.50    99.00    99.00
10  5 21  3    15.0 1   326.0     0.50    11.90    99.00    99.00
10  5 21  4    15.0 1     0.0     0.00    11.40    99.00    99.00
10  5 21  5    15.0 1     0.0     0.00    11.00    99.00    99.00
10  5 21  6    15.0 1     0.0     0.00    10.60    99.00    99.00
10  5 21  7    15.0 1   350.0     2.10    12.10    99.00    99.00
10  5 21  8    15.0 1   344.0     2.10    13.40    99.00    99.00
10  5 21  9    15.0 1   333.0     1.50    14.80    99.00    99.00
10  5 21 10    15.0 1   333.0     2.60    16.40    99.00    99.00
10  5 21 11    15.0 1   328.0     3.60    17.80    99.00    99.00
10  5 21 12    15.0 1   344.0     5.10    19.10    99.00    99.00
10  5 21 13    15.0 1   342.0     6.70    19.90    99.00    99.00
10  5 21 14    15.0 1   337.0     7.20    20.10    99.00    99.00
10  5 21 15    15.0 1   345.0     7.70    20.10    99.00    99.00
10  5 21 16    15.0 1   353.0     7.70    19.90    99.00    99.00
10  5 21 17    15.0 1   353.0     6.70    19.30    99.00    99.00
10  5 21 18    15.0 1   346.0     4.10    18.10    99.00    99.00
10  5 21 19    15.0 1   349.0     4.60    16.30    99.00    99.00
10  5 21 20    15.0 1   347.0     4.60    14.60    99.00    99.00
10  5 21 21    15.0 1   351.0     4.10    13.50    99.00    99.00
10  5 21 22    15.0 1   328.0     4.10    12.50    99.00    99.00
10  5 21 23    15.0 1   318.0     4.10    12.10    99.00    99.00
10  5 21 24    15.0 1   323.0     4.10    11.50    99.00    99.00
10  5 22  1    15.0 1   313.0     4.10    10.10    99.00    99.00
10  5 22  2    15.0 1   312.0     3.60     9.30    99.00    99.00
10  5 22  3    15.0 1   312.0     3.60     8.50    99.00    99.00
10  5 22  4    15.0 1   310.0     3.60     7.90    99.00    99.00
10  5 22  5    15.0 1   318.0     3.10     7.50    99.00    99.00
10  5 22  6    15.0 1   327.0     3.60     7.80    99.00    99.00
10  5 22  7    15.0 1   341.0     4.60     9.40    99.00    99.00
10  5 22  8    15.0 1   344.0     3.10    10.60    99.00    99.00
10  5 22  9    15.0 1   326.0     2.10    12.00    99.00    99.00
10  5 22 10    15.0 1   318.0     2.10    13.30    99.00    99.00
10  5 22 11    15.0 1   316.0     2.60    14.60    99.00    99.00
10  5 22 12    15.0 1   335.0     3.60    15.60    99.00    99.00
10  5 22 13    15.0 1   338.0     4.10    16.40    99.00    99.00
10  5 22 14    15.0 1   342.0     5.10    16.90    99.00    99.00
10  5 22 15    15.0 1   348.0     5.10    17.10    99.00    99.00
10  5 22 16    15.0 1   336.0     5.70    17.10    99.00    99.00
10  5 22 17    15.0 1   354.0     5.10    16.60    99.00    99.00
10  5 22 18    15.0 1   346.0     3.10    16.10    99.00    99.00
10  5 22 19    15.0 1   336.0     3.60    15.10    99.00    99.00
10  5 22 20    15.0 1   335.0     4.10    13.80    99.00    99.00
10  5 22 21    15.0 1   321.0     3.60    12.90    99.00    99.00
10  5 22 22    15.0 1   304.0     3.60    11.90    99.00    99.00
10  5 22 23    15.0 1   290.0     3.60    10.80    99.00    99.00
10  5 22 24    15.0 1   284.0     3.60     9.60    99.00    99.00
10  5 23  1    15.0 1   285.0     4.10     8.60    99.00    99.00
10  5 23  2    15.0 1   281.0     4.10     8.00    99.00    99.00
10  5 23  3    15.0 1   282.0     4.10     7.60    99.00    99.00
10  5 23  4    15.0 1   274.0     4.10     7.50    99.00    99.00
10  5 23  5    15.0 1   271.0     4.10     7.90    99.00    99.00
10  5 23  6    15.0 1   269.0     2.60     8.50    99.00    99.00
10  5 23  7    15.0 1   325.0     5.10    10.30    99.00    99.00
10  5 23  8    15.0 1   330.0     5.70    11.60    99.00    99.00
10  5 23  9    15.0 1   318.0     5.10    12.60    99.00    99.00
10  5 23 10    15.0 1   324.0     4.60    13.90    99.00    99.00
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10  5 23 11    15.0 1   325.0     4.60    15.00    99.00    99.00
10  5 23 12    15.0 1   332.0     5.10    16.10    99.00    99.00
10  5 23 13    15.0 1   333.0     5.70    17.10    99.00    99.00
10  5 23 14    15.0 1   345.0     6.70    17.90    99.00    99.00
10  5 23 15    15.0 1   336.0     7.20    18.40    99.00    99.00
10  5 23 16    15.0 1   330.0     7.20    18.60    99.00    99.00
10  5 23 17    15.0 1   332.0     5.10    18.50    99.00    99.00
10  5 23 18    15.0 1   329.0     3.10    17.80    99.00    99.00
10  5 23 19    15.0 1   322.0     4.10    16.80    99.00    99.00
10  5 23 20    15.0 1   324.0     4.10    15.40    99.00    99.00
10  5 23 21    15.0 1   294.0     3.60    14.10    99.00    99.00
10  5 23 22    15.0 1   279.0     3.60    12.10    99.00    99.00
10  5 23 23    15.0 1   291.0     3.10    11.30    99.00    99.00
10  5 23 24    15.0 1   304.0     3.10    10.60    99.00    99.00
10  5 24  1    15.0 1   286.0     3.10    10.00    99.00    99.00
10  5 24  2    15.0 1   282.0     2.60     9.40    99.00    99.00
10  5 24  3    15.0 1   261.0     1.50     8.80    99.00    99.00
10  5 24  4    15.0 1   264.0     1.00     8.50    99.00    99.00
10  5 24  5    15.0 1   291.0     1.00     8.10    99.00    99.00
10  5 24  6    15.0 1   297.0     0.50     7.90    99.00    99.00
10  5 24  7    15.0 1   295.0     0.50     9.80    99.00    99.00
10  5 24  8    15.0 1     0.0     0.00    11.10    99.00    99.00
10  5 24  9    15.0 1     0.0     0.00    12.10    99.00    99.00
10  5 24 10    15.0 1     0.0     0.00    13.60    99.00    99.00
10  5 24 11    15.0 1     0.0     0.00    15.60    99.00    99.00
10  5 24 12    15.0 1     0.0     0.00    17.10    99.00    99.00
10  5 24 13    15.0 1     0.0     0.00    18.60    99.00    99.00
10  5 24 14    15.0 1     0.0     0.00    19.80    99.00    99.00
10  5 24 15    15.0 1   324.0     1.00    20.50    99.00    99.00
10  5 24 16    15.0 1   352.0     2.10    20.80    99.00    99.00
10  5 24 17    15.0 1   359.0     3.10    20.80    99.00    99.00
10  5 24 18    15.0 1     9.0     2.60    20.10    99.00    99.00
10  5 24 19    15.0 1    14.0     3.10    19.50    99.00    99.00
10  5 24 20    15.0 1   298.0     2.10    18.50    99.00    99.00
10  5 24 21    15.0 1   260.0     5.10    15.30    99.00    99.00
10  5 24 22    15.0 1   272.0     5.10    13.50    99.00    99.00
10  5 24 23    15.0 1   273.0     4.60    12.60    99.00    99.00
10  5 24 24    15.0 1   266.0     3.10    11.90    99.00    99.00
10  5 25  1    15.0 1   263.0     2.10    11.40    99.00    99.00
10  5 25  2    15.0 1   233.0     1.00    10.90    99.00    99.00
10  5 25  3    15.0 1   183.0     1.00    10.60    99.00    99.00
10  5 25  4    15.0 1   214.0     0.50    10.60    99.00    99.00
10  5 25  5    15.0 1    97.0     0.50    10.50    99.00    99.00
10  5 25  6    15.0 1   100.0     0.50    10.80    99.00    99.00
10  5 25  7    15.0 1     0.0     0.00    11.10    99.00    99.00
10  5 25  8    15.0 1   174.0     0.50    11.90    99.00    99.00
10  5 25  9    15.0 1     0.0     0.00    13.60    99.00    99.00
10  5 25 10    15.0 1     0.0     0.00    15.60    99.00    99.00
10  5 25 11    15.0 1     0.0     0.00    17.50    99.00    99.00
10  5 25 12    15.0 1     0.0     0.00    19.10    99.00    99.00
10  5 25 13    15.0 1   326.0     0.50    20.30    99.00    99.00
10  5 25 14    15.0 1   337.0     1.50    21.00    99.00    99.00
10  5 25 15    15.0 1   351.0     2.60    21.30    99.00    99.00
10  5 25 16    15.0 1   336.0     3.10    22.10    99.00    99.00
10  5 25 17    15.0 1   309.0     3.60    21.60    99.00    99.00
10  5 25 18    15.0 1   293.0     4.10    20.10    99.00    99.00
10  5 25 19    15.0 1   280.0     4.60    18.10    99.00    99.00
10  5 25 20    15.0 1   284.0     4.60    16.80    99.00    99.00
10  5 25 21    15.0 1   288.0     3.60    16.30    99.00    99.00
10  5 25 22    15.0 1   293.0     3.10    15.90    99.00    99.00
10  5 25 23    15.0 1   302.0     3.10    15.30    99.00    99.00
10  5 25 24    15.0 1   305.0     3.10    14.30    99.00    99.00
10  5 26  1    15.0 1   289.0     2.60    13.50    99.00    99.00
10  5 26  2    15.0 1   269.0     2.10    13.00    99.00    99.00
10  5 26  3    15.0 1   228.0     2.10    12.80    99.00    99.00
10  5 26  4    15.0 1   196.0     2.10    13.00    99.00    99.00
10  5 26  5    15.0 1   179.0     1.50    13.10    99.00    99.00
10  5 26  6    15.0 1   158.0     1.00    13.10    99.00    99.00
10  5 26  7    15.0 1   280.0     1.00    13.80    99.00    99.00
10  5 26  8    15.0 1     0.0     0.00    14.90    99.00    99.00
10  5 26  9    15.0 1     0.0     0.00    15.60    99.00    99.00
10  5 26 10    15.0 1     0.0     0.00    17.10    99.00    99.00
10  5 26 11    15.0 1     0.0     0.00    18.60    99.00    99.00
10  5 26 12    15.0 1     0.0     0.00    19.90    99.00    99.00
10  5 26 13    15.0 1     0.0     0.00    21.00    99.00    99.00
10  5 26 14    15.0 1     0.0     0.00    22.00    99.00    99.00
10  5 26 15    15.0 1   317.0     0.50    22.60    99.00    99.00
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10  5 26 16    15.0 1     0.0     0.00    23.10    99.00    99.00
10  5 26 17    15.0 1   284.0     2.10    23.30    99.00    99.00
10  5 26 18    15.0 1   257.0     3.60    21.80    99.00    99.00
10  5 26 19    15.0 1   272.0     5.10    18.60    99.00    99.00
10  5 26 20    15.0 1   260.0     4.60    16.30    99.00    99.00
10  5 26 21    15.0 1   258.0     3.60    14.90    99.00    99.00
10  5 26 22    15.0 1   269.0     2.10    14.30    99.00    99.00
10  5 26 23    15.0 1    17.0     0.50    13.80    99.00    99.00
10  5 26 24    15.0 1    58.0     2.10    13.30    99.00    99.00
10  5 27  1    15.0 1    48.0     3.10    12.60    99.00    99.00
10  5 27  2    15.0 1    23.0     2.10    12.10    99.00    99.00
10  5 27  3    15.0 1   314.0     1.50    11.60    99.00    99.00
10  5 27  4    15.0 1   261.0     1.50    11.10    99.00    99.00
10  5 27  5    15.0 1   228.0     3.10    10.40    99.00    99.00
10  5 27  6    15.0 1   233.0     3.60    10.50    99.00    99.00
10  5 27  7    15.0 1   242.0     2.60    11.60    99.00    99.00
10  5 27  8    15.0 1   165.0     0.50    13.50    99.00    99.00
10  5 27  9    15.0 1   152.0     1.00    14.80    99.00    99.00
10  5 27 10    15.0 1   147.0     1.00    16.10    99.00    99.00
10  5 27 11    15.0 1   163.0     0.50    17.80    99.00    99.00
10  5 27 12    15.0 1     0.0     0.00    19.10    99.00    99.00
10  5 27 13    15.0 1     0.0     0.00    20.40    99.00    99.00
10  5 27 14    15.0 1     0.0     0.00    21.40    99.00    99.00
10  5 27 15    15.0 1   274.0     1.00    22.00    99.00    99.00
10  5 27 16    15.0 1   276.0     3.10    22.30    99.00    99.00
10  5 27 17    15.0 1   278.0     5.10    21.60    99.00    99.00
10  5 27 18    15.0 1   267.0     4.60    20.00    99.00    99.00
10  5 27 19    15.0 1   285.0     5.10    17.60    99.00    99.00
10  5 27 20    15.0 1   281.0     4.60    15.60    99.00    99.00
10  5 27 21    15.0 1   295.0     4.10    14.30    99.00    99.00
10  5 27 22    15.0 1   296.0     3.10    13.30    99.00    99.00
10  5 27 23    15.0 1   296.0     2.60    12.80    99.00    99.00
10  5 27 24    15.0 1   290.0     2.60    12.30    99.00    99.00
10  5 28  1    15.0 1   280.0     2.60    11.90    99.00    99.00
10  5 28  2    15.0 1   284.0     2.60    11.30    99.00    99.00
10  5 28  3    15.0 1   288.0     3.10    10.90    99.00    99.00
10  5 28  4    15.0 1   298.0     3.60    10.60    99.00    99.00
10  5 28  5    15.0 1   304.0     4.10    10.10    99.00    99.00
10  5 28  6    15.0 1   298.0     4.10    10.10    99.00    99.00
10  5 28  7    15.0 1   324.0     3.60    10.80    99.00    99.00
10  5 28  8    15.0 1   326.0     3.60    11.30    99.00    99.00
10  5 28  9    15.0 1   344.0     3.10    12.10    99.00    99.00
10  5 28 10    15.0 1   346.0     2.10    13.50    99.00    99.00
10  5 28 11    15.0 1   352.0     1.50    14.60    99.00    99.00
10  5 28 12    15.0 1    14.0     1.50    16.40    99.00    99.00
10  5 28 13    15.0 1   351.0     2.60    17.90    99.00    99.00
10  5 28 14    15.0 1   343.0     4.10    18.90    99.00    99.00
10  5 28 15    15.0 1   338.0     4.60    19.50    99.00    99.00
10  5 28 16    15.0 1   338.0     5.10    19.60    99.00    99.00
10  5 28 17    15.0 1   338.0     4.60    19.80    99.00    99.00
10  5 28 18    15.0 1   321.0     2.60    19.40    99.00    99.00
10  5 28 19    15.0 1   312.0     3.10    18.80    99.00    99.00
10  5 28 20    15.0 1   314.0     3.10    17.90    99.00    99.00
10  5 28 21    15.0 1   309.0     2.10    16.80    99.00    99.00
10  5 28 22    15.0 1   283.0     1.50    15.80    99.00    99.00
10  5 28 23    15.0 1   232.0     2.10    14.60    99.00    99.00
10  5 28 24    15.0 1   206.0     2.60    13.40    99.00    99.00
10  5 29  1    15.0 1   196.0     2.60    12.60    99.00    99.00
10  5 29  2    15.0 1   200.0     1.50    11.80    99.00    99.00
10  5 29  3    15.0 1   220.0     1.00    11.00    99.00    99.00
10  5 29  4    15.0 1   236.0     1.50    10.30    99.00    99.00
10  5 29  5    15.0 1   264.0     2.60     9.80    99.00    99.00
10  5 29  6    15.0 1   260.0     2.10     9.80    99.00    99.00
10  5 29  7    15.0 1   305.0     1.50    12.30    99.00    99.00
10  5 29  8    15.0 1   280.0     0.50    14.60    99.00    99.00
10  5 29  9    15.0 1   274.0     1.00    16.80    99.00    99.00
10  5 29 10    15.0 1   267.0     1.00    18.80    99.00    99.00
10  5 29 11    15.0 1   294.0     1.00    20.60    99.00    99.00
10  5 29 12    15.0 1   306.0     1.00    22.30    99.00    99.00
10  5 29 13    15.0 1   319.0     1.50    23.50    99.00    99.00
10  5 29 14    15.0 1   334.0     2.10    24.40    99.00    99.00
10  5 29 15    15.0 1   344.0     2.60    24.90    99.00    99.00
10  5 29 16    15.0 1   352.0     3.60    25.10    99.00    99.00
10  5 29 17    15.0 1   353.0     3.60    24.90    99.00    99.00
10  5 29 18    15.0 1   351.0     2.10    24.40    99.00    99.00
10  5 29 19    15.0 1   338.0     1.50    23.80    99.00    99.00
10  5 29 20    15.0 1   306.0     1.00    22.40    99.00    99.00
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10   5 29 21     15.0 1   266.0      0.50     20.90     99.00     99.00
10   5 29 22     15.0 1   239.0      1.00     19.40     99.00     99.00
10   5 29 23     15.0 1   245.0      1.50     18.10     99.00     99.00
10   5 29 24     15.0 1   277.0      1.50     17.40     99.00     99.00
10   5 30  1     15.0 1   316.0      1.00     16.50     99.00     99.00
10   5 30  2     15.0 1   268.0      0.50     15.50     99.00     99.00
10   5 30  3     15.0 1   240.0      1.50     14.60     99.00     99.00
10   5 30  4     15.0 1   249.0      2.10     14.00     99.00     99.00
10   5 30  5     15.0 1   261.0      3.10     13.40     99.00     99.00
10   5 30  6     15.0 1   263.0      2.60     13.00     99.00     99.00
10   5 30  7     15.0 1   305.0      2.10     15.00     99.00     99.00
10   5 30  8     15.0 1   281.0      1.50     17.10     99.00     99.00
10   5 30  9     15.0 1   272.0      1.00     19.90     99.00     99.00
10   5 30 10     15.0 1   281.0      0.50     22.40     99.00     99.00
10   5 30 11     15.0 1     0.0      0.00     24.40     99.00     99.00
10   5 30 12     15.0 1   346.0      0.50     26.30     99.00     99.00
10   5 30 13     15.0 1   356.0      1.00     27.50     99.00     99.00
10   5 30 14     15.0 1     5.0      2.10     28.30     99.00     99.00
10   5 30 15     15.0 1     6.0      3.10     28.60     99.00     99.00
10   5 30 16     15.0 1     7.0      3.60     29.30     99.00     99.00
10   5 30 17     15.0 1     6.0      3.10     28.60     99.00     99.00
10   5 30 18     15.0 1     6.0      3.10     27.80     99.00     99.00
10   5 30 19     15.0 1   355.0      3.10     27.00     99.00     99.00
10   5 30 20     15.0 1   332.0      3.10     25.60     99.00     99.00
10   5 30 21     15.0 1   312.0      4.10     24.10     99.00     99.00
10   5 30 22     15.0 1   300.0      4.10     22.30     99.00     99.00
10   5 30 23     15.0 1   308.0      3.60     21.00     99.00     99.00
10   5 30 24     15.0 1   333.0      4.10     19.30     99.00     99.00
10   5 31  1     15.0 1   353.0      3.10     18.10     99.00     99.00
10   5 31  2     15.0 1    22.0      2.60     17.60     99.00     99.00
10   5 31  3     15.0 1     0.0      0.00     17.10     99.00     99.00
10   5 31  4     15.0 1   331.0      0.50     16.60     99.00     99.00
10   5 31  5     15.0 1     0.0      0.00     16.10     99.00     99.00
10   5 31  6     15.0 1     0.0      0.00     15.90     99.00     99.00
10   5 31  7     15.0 1     0.0      0.00     17.10     99.00     99.00
10   5 31  8     15.0 1     0.0      0.00     19.00     99.00     99.00
10   5 31  9     15.0 1     0.0      0.00     20.80     99.00     99.00
10   5 31 10     15.0 1     0.0      0.00     22.40     99.00     99.00
10   5 31 11     15.0 1     0.0      0.00     23.60     99.00     99.00
10   5 31 12     15.0 1   309.0      0.50     24.80     99.00     99.00
10   5 31 13     15.0 1   341.0      1.50     25.60     99.00     99.00
10   5 31 14     15.0 1     5.0      2.60     26.10     99.00     99.00
10   5 31 15     15.0 1     0.0      0.00     25.80     99.00     99.00
10   5 31 16     15.0 1    13.0      3.60     25.10     99.00     99.00
10   5 31 17     15.0 1     2.0      2.60     24.90     99.00     99.00
10   5 31 18     15.0 1   344.0      2.60     24.40     99.00     99.00
10   5 31 19     15.0 1   334.0      3.60     23.40     99.00     99.00
10   5 31 20     15.0 1   334.0      3.60     21.80     99.00     99.00
10   5 31 21     15.0 1   331.0      3.60     20.80     99.00     99.00
10   5 31 22     15.0 1   335.0      3.10     20.00     99.00     99.00
10   5 31 23     15.0 1   337.0      2.60     19.50     99.00     99.00
10   5 31 24     15.0 1   337.0      2.60     19.10     99.00     99.00
10   6  1  1     15.0 1   344.0      3.10     18.50     99.00     99.00
10   6  1  2     15.0 1   345.0      3.10     17.50     99.00     99.00
10   6  1  3     15.0 1   328.0      3.10     16.60     99.00     99.00
10   6  1  4     15.0 1   327.0      2.60     16.10     99.00     99.00
10   6  1  5     15.0 1   335.0      2.60     15.60     99.00     99.00
10   6  1  6     15.0 1   343.0      2.10     15.60     99.00     99.00
10   6  1  7     15.0 1   352.0      2.10     16.10     99.00     99.00
10   6  1  8     15.0 1   343.0      1.50     16.60     99.00     99.00
10   6  1  9     15.0 1     0.0      0.00     18.10     99.00     99.00
10   6  1 10     15.0 1     0.0      0.00     19.90     99.00     99.00
10   6  1 11     15.0 1     0.0      0.00     21.40     99.00     99.00
10   6  1 12     15.0 1     0.0      0.00     22.80     99.00     99.00
10   6  1 13     15.0 1   326.0      0.50     24.00     99.00     99.00
10   6  1 14     15.0 1   340.0      2.10     25.00     99.00     99.00
10   6  1 15     15.0 1   355.0      3.60     25.50     99.00     99.00
10   6  1 16     15.0 1   351.0      4.60     25.60     99.00     99.00
10   6  1 17     15.0 1   348.0      4.60     25.40     99.00     99.00
10   6  1 18     15.0 1   351.0      3.60     24.60     99.00     99.00
10   6  1 19     15.0 1   338.0      4.10     23.00     99.00     99.00
10   6  1 20     15.0 1   337.0      4.10     21.10     99.00     99.00
10   6  1 21     15.0 1   340.0      4.10     20.10     99.00     99.00
10   6  1 22     15.0 1   326.0      3.60     19.40     99.00     99.00
10   6  1 23     15.0 1   334.0      3.10     18.90     99.00     99.00
10   6  1 24     15.0 1   324.0      3.60     18.10     99.00     99.00
10   6  2  1     15.0 1   321.0      2.60     17.40     99.00     99.00
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10  6  2  2    15.0 1   328.0     1.50    17.00    99.00    99.00
10  6  2  3    15.0 1   360.0     1.00    16.50    99.00    99.00
10  6  2  4    15.0 1    52.0     0.50    16.10    99.00    99.00
10  6  2  5    15.0 1     0.0     0.00    15.60    99.00    99.00
10  6  2  6    15.0 1     0.0     0.00    15.50    99.00    99.00
10  6  2  7    15.0 1    13.0     1.00    16.60    99.00    99.00
10  6  2  8    15.0 1     0.0     0.00    18.00    99.00    99.00
10  6  2  9    15.0 1     0.0     0.00    19.50    99.00    99.00
10  6  2 10    15.0 1     0.0     0.00    21.30    99.00    99.00
10  6  2 11    15.0 1     0.0     0.00    22.80    99.00    99.00
10  6  2 12    15.0 1   330.0     0.50    24.10    99.00    99.00
10  6  2 13    15.0 1   338.0     1.00    25.10    99.00    99.00
10  6  2 14    15.0 1     1.0     2.10    26.10    99.00    99.00
10  6  2 15    15.0 1     0.0     0.00    26.60    99.00    99.00
10  6  2 16    15.0 1    12.0     4.10    26.60    99.00    99.00
10  6  2 17    15.0 1     7.0     3.60    26.30    99.00    99.00
10  6  2 18    15.0 1    14.0     3.10    25.90    99.00    99.00
10  6  2 19    15.0 1     0.0     0.00    25.00    99.00    99.00
10  6  2 20    15.0 1     4.0     3.60    23.60    99.00    99.00
10  6  2 21    15.0 1   355.0     3.10    22.40    99.00    99.00
10  6  2 22    15.0 1     1.0     2.60    21.50    99.00    99.00
10  6  2 23    15.0 1     5.0     1.50    20.80    99.00    99.00
10  6  2 24    15.0 1   354.0     1.00    20.10    99.00    99.00
10  6  3  1    15.0 1   338.0     1.50    19.60    99.00    99.00
10  6  3  2    15.0 1   347.0     1.50    19.10    99.00    99.00
10  6  3  3    15.0 1    13.0     2.10    18.60    99.00    99.00
10  6  3  4    15.0 1    22.0     1.50    18.30    99.00    99.00
10  6  3  5    15.0 1    35.0     1.50    18.00    99.00    99.00
10  6  3  6    15.0 1    44.0     1.50    17.60    99.00    99.00
10  6  3  7    15.0 1    13.0     2.60    18.00    99.00    99.00
10  6  3  8    15.0 1     0.0     0.00    19.30    99.00    99.00
10  6  3  9    15.0 1     0.0     0.00    20.60    99.00    99.00
10  6  3 10    15.0 1     0.0     0.00    22.10    99.00    99.00
10  6  3 11    15.0 1     0.0     0.00    23.60    99.00    99.00
10  6  3 12    15.0 1     0.0     0.00    25.00    99.00    99.00
10  6  3 13    15.0 1   328.0     0.50    26.10    99.00    99.00
10  6  3 14    15.0 1   355.0     1.50    27.10    99.00    99.00
10  6  3 15    15.0 1     5.0     2.60    27.60    99.00    99.00
10  6  3 16    15.0 1     0.0     0.00    27.60    99.00    99.00
10  6  3 17    15.0 1     6.0     4.10    27.50    99.00    99.00
10  6  3 18    15.0 1    11.0     3.10    27.30    99.00    99.00
10  6  3 19    15.0 1     0.0     0.00    26.30    99.00    99.00
10  6  3 20    15.0 1   349.0     4.10    24.60    99.00    99.00
10  6  3 21    15.0 1   346.0     3.60    23.00    99.00    99.00
10  6  3 22    15.0 1   345.0     3.10    21.90    99.00    99.00
10  6  3 23    15.0 1   328.0     2.60    21.10    99.00    99.00
10  6  3 24    15.0 1   327.0     2.10    20.60    99.00    99.00
10  6  4  1    15.0 1   329.0     1.50    20.10    99.00    99.00
10  6  4  2    15.0 1   339.0     1.00    19.60    99.00    99.00
10  6  4  3    15.0 1     0.0     0.00    19.10    99.00    99.00
10  6  4  4    15.0 1    47.0     0.50    18.50    99.00    99.00
10  6  4  5    15.0 1    60.0     0.50    18.10    99.00    99.00
10  6  4  6    15.0 1    49.0     0.50    17.90    99.00    99.00
10  6  4  7    15.0 1    16.0     1.00    18.90    99.00    99.00
10  6  4  8    15.0 1     0.0     0.00    20.40    99.00    99.00
10  6  4  9    15.0 1     0.0     0.00    22.00    99.00    99.00
10  6  4 10    15.0 1     0.0     0.00    23.60    99.00    99.00
10  6  4 11    15.0 1     0.0     0.00    25.40    99.00    99.00
10  6  4 12    15.0 1     0.0     0.00    26.60    99.00    99.00
10  6  4 13    15.0 1   330.0     0.50    27.90    99.00    99.00
10  6  4 14    15.0 1   355.0     1.50    28.90    99.00    99.00
10  6  4 15    15.0 1     2.0     2.60    29.50    99.00    99.00
10  6  4 16    15.0 1   359.0     4.10    29.80    99.00    99.00
10  6  4 17    15.0 1     2.0     3.60    29.50    99.00    99.00
10  6  4 18    15.0 1   353.0     3.60    28.90    99.00    99.00
10  6  4 19    15.0 1   337.0     4.60    26.60    99.00    99.00
10  6  4 20    15.0 1   350.0     4.10    24.50    99.00    99.00
10  6  4 21    15.0 1   349.0     3.60    23.30    99.00    99.00
10  6  4 22    15.0 1   345.0     3.10    22.60    99.00    99.00
10  6  4 23    15.0 1   312.0     2.10    22.10    99.00    99.00
10  6  4 24    15.0 1   295.0     2.10    21.60    99.00    99.00
10  6  5  1    15.0 1   279.0     1.50    21.10    99.00    99.00
10  6  5  2    15.0 1   279.0     1.50    20.60    99.00    99.00
10  6  5  3    15.0 1   288.0     0.50    20.30    99.00    99.00
10  6  5  4    15.0 1     0.0     0.00    20.00    99.00    99.00
10  6  5  5    15.0 1     0.0     0.00    19.60    99.00    99.00
10  6  5  6    15.0 1     0.0     0.00    19.50    99.00    99.00
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10  6  5  7    15.0 1    15.0     0.50    21.00    99.00    99.00
10  6  5  8    15.0 1     0.0     0.00    22.40    99.00    99.00
10  6  5  9    15.0 1     0.0     0.00    23.90    99.00    99.00
10  6  5 10    15.0 1     0.0     0.00    25.60    99.00    99.00
10  6  5 11    15.0 1     0.0     0.00    27.10    99.00    99.00
10  6  5 12    15.0 1     0.0     0.00    28.50    99.00    99.00
10  6  5 13    15.0 1   325.0     0.50    29.60    99.00    99.00
10  6  5 14    15.0 1   345.0     1.50    30.50    99.00    99.00
10  6  5 15    15.0 1   354.0     2.60    31.10    99.00    99.00
10  6  5 16    15.0 1     5.0     3.60    31.10    99.00    99.00
10  6  5 17    15.0 1     0.0     0.00    31.00    99.00    99.00
10  6  5 18    15.0 1   355.0     2.60    30.80    99.00    99.00
10  6  5 19    15.0 1   339.0     3.10    30.00    99.00    99.00
10  6  5 20    15.0 1   329.0     3.60    28.60    99.00    99.00
10  6  5 21    15.0 1   329.0     4.10    27.30    99.00    99.00
10  6  5 22    15.0 1   329.0     3.60    26.10    99.00    99.00
10  6  5 23    15.0 1   333.0     3.10    25.40    99.00    99.00
10  6  5 24    15.0 1   340.0     3.10    24.60    99.00    99.00
10  6  6  1    15.0 1   355.0     3.10    23.60    99.00    99.00
10  6  6  2    15.0 1     9.0     2.60    22.80    99.00    99.00
10  6  6  3    15.0 1     9.0     2.10    22.00    99.00    99.00
10  6  6  4    15.0 1    10.0     1.50    21.30    99.00    99.00
10  6  6  5    15.0 1     0.0     0.00    20.60    99.00    99.00
10  6  6  6    15.0 1     0.0     0.00    20.30    99.00    99.00
10  6  6  7    15.0 1   356.0     1.50    21.10    99.00    99.00
10  6  6  8    15.0 1     0.0     0.00    22.60    99.00    99.00
10  6  6  9    15.0 1     0.0     0.00    24.40    99.00    99.00
10  6  6 10    15.0 1     0.0     0.00    26.00    99.00    99.00
10  6  6 11    15.0 1     0.0     0.00    27.80    99.00    99.00
10  6  6 12    15.0 1   298.0     0.50    29.30    99.00    99.00
10  6  6 13    15.0 1   321.0     1.00    30.30    99.00    99.00
10  6  6 14    15.0 1   336.0     1.50    31.10    99.00    99.00
10  6  6 15    15.0 1   356.0     2.10    31.60    99.00    99.00
10  6  6 16    15.0 1     8.0     3.10    31.80    99.00    99.00
10  6  6 17    15.0 1    10.0     3.10    31.60    99.00    99.00
10  6  6 18    15.0 1     6.0     2.60    31.30    99.00    99.00
10  6  6 19    15.0 1   353.0     3.60    30.30    99.00    99.00
10  6  6 20    15.0 1   338.0     4.10    28.10    99.00    99.00
10  6  6 21    15.0 1   335.0     4.60    26.00    99.00    99.00
10  6  6 22    15.0 1   344.0     4.10    24.60    99.00    99.00
10  6  6 23    15.0 1   340.0     4.10    23.50    99.00    99.00
10  6  6 24    15.0 1   329.0     4.10    22.40    99.00    99.00
10  6  7  1    15.0 1   329.0     3.60    21.50    99.00    99.00
10  6  7  2    15.0 1   338.0     3.10    20.60    99.00    99.00
10  6  7  3    15.0 1   339.0     3.10    20.10    99.00    99.00
10  6  7  4    15.0 1   343.0     2.60    19.60    99.00    99.00
10  6  7  5    15.0 1   345.0     2.10    19.30    99.00    99.00
10  6  7  6    15.0 1   354.0     2.60    19.30    99.00    99.00
10  6  7  7    15.0 1   339.0     2.60    19.90    99.00    99.00
10  6  7  8    15.0 1   328.0     1.50    20.90    99.00    99.00
10  6  7  9    15.0 1   323.0     1.50    22.00    99.00    99.00
10  6  7 10    15.0 1   334.0     2.10    22.90    99.00    99.00
10  6  7 11    15.0 1   327.0     2.60    23.80    99.00    99.00
10  6  7 12    15.0 1   345.0     3.10    24.30    99.00    99.00
10  6  7 13    15.0 1   336.0     4.10    24.10    99.00    99.00
10  6  7 14    15.0 1   346.0     3.10    24.30    99.00    99.00
10  6  7 15    15.0 1   353.0     2.60    25.10    99.00    99.00
10  6  7 16    15.0 1   353.0     3.10    25.60    99.00    99.00
10  6  7 17    15.0 1   342.0     3.10    25.60    99.00    99.00
10  6  7 18    15.0 1   349.0     3.60    24.60    99.00    99.00
10  6  7 19    15.0 1   343.0     3.10    23.60    99.00    99.00
10  6  7 20    15.0 1   316.0     2.60    23.10    99.00    99.00
10  6  7 21    15.0 1   282.0     2.10    22.50    99.00    99.00
10  6  7 22    15.0 1   248.0     2.60    21.80    99.00    99.00
10  6  7 23    15.0 1   261.0     3.10    20.60    99.00    99.00
10  6  7 24    15.0 1   295.0     3.10    19.60    99.00    99.00
10  6  8  1    15.0 1   320.0     3.60    18.60    99.00    99.00
10  6  8  2    15.0 1   345.0     3.60    17.60    99.00    99.00
10  6  8  3    15.0 1   353.0     3.10    17.10    99.00    99.00
10  6  8  4    15.0 1   346.0     3.10    16.60    99.00    99.00
10  6  8  5    15.0 1   338.0     2.60    16.10    99.00    99.00
10  6  8  6    15.0 1   336.0     2.60    16.10    99.00    99.00
10  6  8  7    15.0 1   337.0     2.10    17.10    99.00    99.00
10  6  8  8    15.0 1   329.0     0.50    19.00    99.00    99.00
10  6  8  9    15.0 1     0.0     0.00    20.80    99.00    99.00
10  6  8 10    15.0 1     0.0     0.00    22.50    99.00    99.00
10  6  8 11    15.0 1     0.0     0.00    24.10    99.00    99.00
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10  6  8 12    15.0 1     0.0     0.00    25.40    99.00    99.00
10  6  8 13    15.0 1     0.0     0.00    26.60    99.00    99.00
10  6  8 14    15.0 1     8.0     1.00    27.50    99.00    99.00
10  6  8 15    15.0 1    13.0     2.60    28.00    99.00    99.00
10  6  8 16    15.0 1     9.0     3.60    28.10    99.00    99.00
10  6  8 17    15.0 1    14.0     4.10    27.80    99.00    99.00
10  6  8 18    15.0 1    14.0     3.10    27.10    99.00    99.00
10  6  8 19    15.0 1    13.0     3.10    26.50    99.00    99.00
10  6  8 20    15.0 1   338.0     2.60    25.60    99.00    99.00
10  6  8 21    15.0 1   319.0     3.60    24.50    99.00    99.00
10  6  8 22    15.0 1   330.0     4.10    22.40    99.00    99.00
10  6  8 23    15.0 1   329.0     3.60    20.60    99.00    99.00
10  6  8 24    15.0 1   327.0     3.10    19.40    99.00    99.00
10  6  9  1    15.0 1   330.0     3.10    18.60    99.00    99.00
10  6  9  2    15.0 1   340.0     2.10    18.10    99.00    99.00
10  6  9  3    15.0 1   346.0     2.10    17.90    99.00    99.00
10  6  9  4    15.0 1   337.0     2.10    17.60    99.00    99.00
10  6  9  5    15.0 1   340.0     2.10    17.10    99.00    99.00
10  6  9  6    15.0 1   337.0     2.10    16.90    99.00    99.00
10  6  9  7    15.0 1   355.0     3.10    16.60    99.00    99.00
10  6  9  8    15.0 1   341.0     1.50    17.30    99.00    99.00
10  6  9  9    15.0 1   316.0     1.00    18.10    99.00    99.00
10  6  9 10    15.0 1   314.0     1.00    19.60    99.00    99.00
10  6  9 11    15.0 1   329.0     1.00    20.90    99.00    99.00
10  6  9 12    15.0 1   341.0     1.50    22.10    99.00    99.00
10  6  9 13    15.0 1   355.0     2.60    22.90    99.00    99.00
10  6  9 14    15.0 1   354.0     3.60    23.30    99.00    99.00
10  6  9 15    15.0 1   360.0     4.10    23.40    99.00    99.00
10  6  9 16    15.0 1     1.0     4.10    23.80    99.00    99.00
10  6  9 17    15.0 1   349.0     3.10    23.60    99.00    99.00
10  6  9 18    15.0 1   353.0     3.60    22.60    99.00    99.00
10  6  9 19    15.0 1   339.0     4.10    21.10    99.00    99.00
10  6  9 20    15.0 1   344.0     3.60    20.30    99.00    99.00
10  6  9 21    15.0 1   346.0     3.60    19.60    99.00    99.00
10  6  9 22    15.0 1   348.0     4.10    18.60    99.00    99.00
10  6  9 23    15.0 1   344.0     4.60    17.60    99.00    99.00
10  6  9 24    15.0 1   327.0     4.10    16.60    99.00    99.00
10  6 10  1    15.0 1   316.0     3.60    15.90    99.00    99.00
10  6 10  2    15.0 1   320.0     3.10    15.40    99.00    99.00
10  6 10  3    15.0 1   320.0     3.60    15.00    99.00    99.00
10  6 10  4    15.0 1   327.0     3.60    14.90    99.00    99.00
10  6 10  5    15.0 1   320.0     3.10    14.60    99.00    99.00
10  6 10  6    15.0 1   321.0     2.60    14.40    99.00    99.00
10  6 10  7    15.0 1   320.0     3.10    14.30    99.00    99.00
10  6 10  8    15.0 1   335.0     3.60    14.30    99.00    99.00
10  6 10  9    15.0 1   338.0     2.60    15.00    99.00    99.00
10  6 10 10    15.0 1   341.0     2.10    16.90    99.00    99.00
10  6 10 11    15.0 1   348.0     2.10    18.60    99.00    99.00
10  6 10 12    15.0 1   340.0     4.10    19.90    99.00    99.00
10  6 10 13    15.0 1   342.0     5.10    20.80    99.00    99.00
10  6 10 14    15.0 1   327.0     5.10    21.50    99.00    99.00
10  6 10 15    15.0 1   331.0     5.70    21.80    99.00    99.00
10  6 10 16    15.0 1   329.0     5.70    21.80    99.00    99.00
10  6 10 17    15.0 1   331.0     5.70    21.80    99.00    99.00
10  6 10 18    15.0 1   329.0     3.10    21.10    99.00    99.00
10  6 10 19    15.0 1   316.0     3.60    20.00    99.00    99.00
10  6 10 20    15.0 1   325.0     3.60    18.50    99.00    99.00
10  6 10 21    15.0 1   307.0     3.60    17.10    99.00    99.00
10  6 10 22    15.0 1   300.0     3.10    16.40    99.00    99.00
10  6 10 23    15.0 1   292.0     2.10    15.80    99.00    99.00
10  6 10 24    15.0 1   280.0     0.50    15.30    99.00    99.00
10  6 11  1    15.0 1     0.0     0.00    15.00    99.00    99.00
10  6 11  2    15.0 1   252.0     0.50    14.40    99.00    99.00
10  6 11  3    15.0 1   251.0     1.50    13.80    99.00    99.00
10  6 11  4    15.0 1   246.0     2.10    13.40    99.00    99.00
10  6 11  5    15.0 1   247.0     2.60    12.90    99.00    99.00
10  6 11  6    15.0 1   241.0     2.10    12.60    99.00    99.00
10  6 11  7    15.0 1   326.0     2.60    15.00    99.00    99.00
10  6 11  8    15.0 1   341.0     2.10    16.60    99.00    99.00
10  6 11  9    15.0 1   336.0     2.60    18.60    99.00    99.00
10  6 11 10    15.0 1   338.0     3.10    20.30    99.00    99.00
10  6 11 11    15.0 1   336.0     3.10    21.60    99.00    99.00
10  6 11 12    15.0 1   343.0     3.60    22.80    99.00    99.00
10  6 11 13    15.0 1   349.0     3.60    23.80    99.00    99.00
10  6 11 14    15.0 1   352.0     4.10    24.60    99.00    99.00
10  6 11 15    15.0 1   348.0     4.10    25.30    99.00    99.00
10  6 11 16    15.0 1   340.0     4.10    25.80    99.00    99.00
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10  6 11 17    15.0 1   342.0     3.10    25.90    99.00    99.00
10  6 11 18    15.0 1   342.0     2.10    25.50    99.00    99.00
10  6 11 19    15.0 1   321.0     1.50    25.10    99.00    99.00
10  6 11 20    15.0 1   229.0     0.50    23.90    99.00    99.00
10  6 11 21    15.0 1   228.0     1.50    22.90    99.00    99.00
10  6 11 22    15.0 1   250.0     4.60    21.60    99.00    99.00
10  6 11 23    15.0 1   265.0     4.10    19.00    99.00    99.00
10  6 11 24    15.0 1   300.0     1.50    18.00    99.00    99.00
10  6 12  1    15.0 1    32.0     1.00    16.80    99.00    99.00
10  6 12  2    15.0 1   328.0     1.50    16.00    99.00    99.00
10  6 12  3    15.0 1   318.0     2.60    15.30    99.00    99.00
10  6 12  4    15.0 1   306.0     2.60    15.00    99.00    99.00
10  6 12  5    15.0 1   292.0     2.10    14.60    99.00    99.00
10  6 12  6    15.0 1   284.0     2.10    14.50    99.00    99.00
10  6 12  7    15.0 1   318.0     2.60    17.00    99.00    99.00
10  6 12  8    15.0 1   330.0     0.50    19.30    99.00    99.00
10  6 12  9    15.0 1   240.0     0.50    21.30    99.00    99.00
10  6 12 10    15.0 1   224.0     0.50    23.00    99.00    99.00
10  6 12 11    15.0 1     0.0     0.00    24.50    99.00    99.00
10  6 12 12    15.0 1     0.0     0.00    25.60    99.00    99.00
10  6 12 13    15.0 1     0.0     0.00    26.60    99.00    99.00
10  6 12 14    15.0 1     0.0     0.00    27.50    99.00    99.00
10  6 12 15    15.0 1    41.0     0.50    28.00    99.00    99.00
10  6 12 16    15.0 1    52.0     0.50    28.30    99.00    99.00
10  6 12 17    15.0 1    59.0     1.50    28.30    99.00    99.00
10  6 12 18    15.0 1    74.0     1.50    27.90    99.00    99.00
10  6 12 19    15.0 1    74.0     0.50    27.10    99.00    99.00
10  6 12 20    15.0 1   240.0     1.50    25.60    99.00    99.00
10  6 12 21    15.0 1   271.0     4.60    22.60    99.00    99.00
10  6 12 22    15.0 1   276.0     3.60    20.10    99.00    99.00
10  6 12 23    15.0 1   267.0     1.50    19.60    99.00    99.00
10  6 12 24    15.0 1     0.0     0.00    19.40    99.00    99.00
10  6 13  1    15.0 1    49.0     0.50    19.10    99.00    99.00
10  6 13  2    15.0 1    53.0     0.50    18.60    99.00    99.00
10  6 13  3    15.0 1    28.0     0.50    17.80    99.00    99.00
10  6 13  4    15.0 1   292.0     0.50    17.10    99.00    99.00
10  6 13  5    15.0 1   230.0     1.00    16.50    99.00    99.00
10  6 13  6    15.0 1   232.0     1.50    16.30    99.00    99.00
10  6 13  7    15.0 1   285.0     1.50    18.00    99.00    99.00
10  6 13  8    15.0 1   230.0     0.50    19.90    99.00    99.00
10  6 13  9    15.0 1   222.0     0.50    22.40    99.00    99.00
10  6 13 10    15.0 1     0.0     0.00    24.30    99.00    99.00
10  6 13 11    15.0 1     0.0     0.00    26.00    99.00    99.00
10  6 13 12    15.0 1     0.0     0.00    27.50    99.00    99.00
10  6 13 13    15.0 1     0.0     0.00    28.60    99.00    99.00
10  6 13 14    15.0 1     0.0     0.00    29.60    99.00    99.00
10  6 13 15    15.0 1    30.0     0.50    30.10    99.00    99.00
10  6 13 16    15.0 1    24.0     1.50    30.30    99.00    99.00
10  6 13 17    15.0 1    15.0     2.60    30.00    99.00    99.00
10  6 13 18    15.0 1    25.0     2.10    29.30    99.00    99.00
10  6 13 19    15.0 1    16.0     2.10    28.50    99.00    99.00
10  6 13 20    15.0 1   336.0     0.50    27.00    99.00    99.00
10  6 13 21    15.0 1   248.0     1.00    25.30    99.00    99.00
10  6 13 22    15.0 1   267.0     3.10    23.40    99.00    99.00
10  6 13 23    15.0 1   287.0     1.50    22.10    99.00    99.00
10  6 13 24    15.0 1   318.0     0.50    21.10    99.00    99.00
10  6 14  1    15.0 1   359.0     0.50    20.50    99.00    99.00
10  6 14  2    15.0 1    30.0     0.50    19.90    99.00    99.00
10  6 14  3    15.0 1    19.0     0.50    19.10    99.00    99.00
10  6 14  4    15.0 1     0.0     0.00    18.50    99.00    99.00
10  6 14  5    15.0 1   247.0     0.50    17.60    99.00    99.00
10  6 14  6    15.0 1   251.0     1.50    17.60    99.00    99.00
10  6 14  7    15.0 1   279.0     1.00    19.80    99.00    99.00
10  6 14  8    15.0 1   247.0     0.50    21.60    99.00    99.00
10  6 14  9    15.0 1     0.0     0.00    24.30    99.00    99.00
10  6 14 10    15.0 1     0.0     0.00    26.30    99.00    99.00
10  6 14 11    15.0 1     0.0     0.00    28.10    99.00    99.00
10  6 14 12    15.0 1     0.0     0.00    29.60    99.00    99.00
10  6 14 13    15.0 1   289.0     0.50    30.90    99.00    99.00
10  6 14 14    15.0 1   306.0     0.50    31.80    99.00    99.00
10  6 14 15    15.0 1   340.0     1.00    32.30    99.00    99.00
10  6 14 16    15.0 1     0.0     0.00    32.90    99.00    99.00
10  6 14 17    15.0 1     8.0     2.60    32.10    99.00    99.00
10  6 14 18    15.0 1    14.0     3.10    31.30    99.00    99.00
10  6 14 19    15.0 1   346.0     3.60    30.10    99.00    99.00
10  6 14 20    15.0 1   289.0     5.10    28.50    99.00    99.00
10  6 14 21    15.0 1   266.0     5.70    23.80    99.00    99.00
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10  6 14 22    15.0 1   267.0     5.10    21.80    99.00    99.00
10  6 14 23    15.0 1   268.0     4.10    20.60    99.00    99.00
10  6 14 24    15.0 1   269.0     3.10    19.90    99.00    99.00
10  6 15  1    15.0 1   282.0     1.50    19.50    99.00    99.00
10  6 15  2    15.0 1   291.0     0.50    19.10    99.00    99.00
10  6 15  3    15.0 1   290.0     1.50    18.90    99.00    99.00
10  6 15  4    15.0 1   294.0     1.50    18.60    99.00    99.00
10  6 15  5    15.0 1   305.0     1.00    18.30    99.00    99.00
10  6 15  6    15.0 1   342.0     0.50    18.10    99.00    99.00
10  6 15  7    15.0 1   347.0     1.50    20.10    99.00    99.00
10  6 15  8    15.0 1   332.0     0.50    21.60    99.00    99.00
10  6 15  9    15.0 1     0.0     0.00    23.30    99.00    99.00
10  6 15 10    15.0 1     0.0     0.00    25.30    99.00    99.00
10  6 15 11    15.0 1     0.0     0.00    27.10    99.00    99.00
10  6 15 12    15.0 1   323.0     0.50    28.80    99.00    99.00
10  6 15 13    15.0 1   327.0     1.50    30.00    99.00    99.00
10  6 15 14    15.0 1   337.0     2.10    30.90    99.00    99.00
10  6 15 15    15.0 1   355.0     2.60    31.50    99.00    99.00
10  6 15 16    15.0 1   334.0     3.10    31.80    99.00    99.00
10  6 15 17    15.0 1   269.0     3.60    30.60    99.00    99.00
10  6 15 18    15.0 1   246.0     5.10    28.10    99.00    99.00
10  6 15 19    15.0 1   255.0     5.10    24.80    99.00    99.00
10  6 15 20    15.0 1   257.0     6.20    22.10    99.00    99.00
10  6 15 21    15.0 1   260.0     5.10    20.60    99.00    99.00
10  6 15 22    15.0 1   265.0     4.10    19.30    99.00    99.00
10  6 15 23    15.0 1   261.0     3.10    18.30    99.00    99.00
10  6 15 24    15.0 1   263.0     2.60    17.60    99.00    99.00
10  6 16  1    15.0 1   260.0     2.10    17.10    99.00    99.00
10  6 16  2    15.0 1   257.0     2.60    16.90    99.00    99.00
10  6 16  3    15.0 1   260.0     2.60    16.30    99.00    99.00
10  6 16  4    15.0 1   260.0     2.60    15.60    99.00    99.00
10  6 16  5    15.0 1   269.0     2.60    15.10    99.00    99.00
10  6 16  6    15.0 1   281.0     1.50    15.50    99.00    99.00
10  6 16  7    15.0 1   329.0     1.50    17.10    99.00    99.00
10  6 16  8    15.0 1   317.0     1.00    18.10    99.00    99.00
10  6 16  9    15.0 1   305.0     1.00    19.50    99.00    99.00
10  6 16 10    15.0 1   299.0     1.00    20.90    99.00    99.00
10  6 16 11    15.0 1   306.0     1.50    22.10    99.00    99.00
10  6 16 12    15.0 1   324.0     1.50    23.40    99.00    99.00
10  6 16 13    15.0 1   330.0     2.10    24.50    99.00    99.00
10  6 16 14    15.0 1   339.0     2.60    25.10    99.00    99.00
10  6 16 15    15.0 1   340.0     3.60    25.60    99.00    99.00
10  6 16 16    15.0 1   353.0     4.10    25.60    99.00    99.00
10  6 16 17    15.0 1   352.0     4.10    25.50    99.00    99.00
10  6 16 18    15.0 1   345.0     2.60    24.60    99.00    99.00
10  6 16 19    15.0 1   344.0     3.10    24.00    99.00    99.00
10  6 16 20    15.0 1   341.0     3.60    22.80    99.00    99.00
10  6 16 21    15.0 1   317.0     4.10    21.50    99.00    99.00
10  6 16 22    15.0 1   297.0     3.10    20.30    99.00    99.00
10  6 16 23    15.0 1   277.0     0.50    19.10    99.00    99.00
10  6 16 24    15.0 1   120.0     0.50    17.90    99.00    99.00
10  6 17  1    15.0 1     0.0     0.00    16.90    99.00    99.00
10  6 17  2    15.0 1   289.0     0.50    16.00    99.00    99.00
10  6 17  3    15.0 1   287.0     2.10    15.50    99.00    99.00
10  6 17  4    15.0 1   288.0     3.10    14.80    99.00    99.00
10  6 17  5    15.0 1   299.0     3.10    14.10    99.00    99.00
10  6 17  6    15.0 1   302.0     2.10    13.90    99.00    99.00
10  6 17  7    15.0 1   327.0     3.10    16.10    99.00    99.00
10  6 17  8    15.0 1   333.0     1.00    18.10    99.00    99.00
10  6 17  9    15.0 1     0.0     0.00    19.60    99.00    99.00
10  6 17 10    15.0 1     0.0     0.00    21.40    99.00    99.00
10  6 17 11    15.0 1     0.0     0.00    22.90    99.00    99.00
10  6 17 12    15.0 1     0.0     0.00    24.60    99.00    99.00
10  6 17 13    15.0 1     0.0     0.00    26.00    99.00    99.00
10  6 17 14    15.0 1   337.0     0.50    26.90    99.00    99.00
10  6 17 15    15.0 1     3.0     1.50    27.50    99.00    99.00
10  6 17 16    15.0 1     8.0     2.60    27.60    99.00    99.00
10  6 17 17    15.0 1     8.0     3.10    27.30    99.00    99.00
10  6 17 18    15.0 1    22.0     2.60    26.30    99.00    99.00
10  6 17 19    15.0 1    12.0     3.10    25.60    99.00    99.00
10  6 17 20    15.0 1   342.0     2.60    24.30    99.00    99.00
10  6 17 21    15.0 1   305.0     3.60    23.00    99.00    99.00
10  6 17 22    15.0 1   285.0     4.60    20.00    99.00    99.00
10  6 17 23    15.0 1   273.0     4.10    17.80    99.00    99.00
10  6 17 24    15.0 1   279.0     3.60    17.00    99.00    99.00
10  6 18  1    15.0 1   300.0     3.10    16.40    99.00    99.00
10  6 18  2    15.0 1   322.0     2.60    16.10    99.00    99.00
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```
10  6 18  3    15.0 1   344.0     1.50    15.60    99.00    99.00
10  6 18  4    15.0 1     0.0     0.00    15.10    99.00    99.00
10  6 18  5    15.0 1     0.0     0.00    14.80    99.00    99.00
10  6 18  6    15.0 1     0.0     0.00    14.60    99.00    99.00
10  6 18  7    15.0 1   296.0     0.50    16.50    99.00    99.00
10  6 18  8    15.0 1     0.0     0.00    18.10    99.00    99.00
10  6 18  9    15.0 1     0.0     0.00    19.60    99.00    99.00
10  6 18 10    15.0 1     0.0     0.00    21.30    99.00    99.00
10  6 18 11    15.0 1     0.0     0.00    22.90    99.00    99.00
10  6 18 12    15.0 1     0.0     0.00    24.10    99.00    99.00
10  6 18 13    15.0 1   343.0     0.50    25.40    99.00    99.00
10  6 18 14    15.0 1   352.0     1.50    26.30    99.00    99.00
10  6 18 15    15.0 1     2.0     2.60    26.80    99.00    99.00
10  6 18 16    15.0 1   360.0     3.60    26.90    99.00    99.00
10  6 18 17    15.0 1     0.0     0.00    26.60    99.00    99.00
10  6 18 18    15.0 1     0.0     0.00    26.00    99.00    99.00
10  6 18 19    15.0 1   341.0     3.10    25.10    99.00    99.00
10  6 18 20    15.0 1   290.0     4.10    22.90    99.00    99.00
10  6 18 21    15.0 1   278.0     4.60    20.40    99.00    99.00
10  6 18 22    15.0 1   280.0     4.10    18.50    99.00    99.00
10  6 18 23    15.0 1   287.0     3.60    17.10    99.00    99.00
10  6 18 24    15.0 1   300.0     3.10    16.40    99.00    99.00
10  6 19  1    15.0 1   312.0     2.60    15.60    99.00    99.00
10  6 19  2    15.0 1   315.0     2.60    15.10    99.00    99.00
10  6 19  3    15.0 1   308.0     2.60    14.60    99.00    99.00
10  6 19  4    15.0 1   308.0     2.10    14.10    99.00    99.00
10  6 19  5    15.0 1   324.0     1.50    13.60    99.00    99.00
10  6 19  6    15.0 1   346.0     2.10    13.60    99.00    99.00
10  6 19  7    15.0 1   353.0     1.00    14.10    99.00    99.00
10  6 19  8    15.0 1     0.0     0.00    15.40    99.00    99.00
10  6 19  9    15.0 1     0.0     0.00    16.80    99.00    99.00
10  6 19 10    15.0 1     0.0     0.00    18.40    99.00    99.00
10  6 19 11    15.0 1     0.0     0.00    20.10    99.00    99.00
10  6 19 12    15.0 1     0.0     0.00    21.60    99.00    99.00
10  6 19 13    15.0 1   346.0     0.50    22.90    99.00    99.00
10  6 19 14    15.0 1     2.0     1.50    24.00    99.00    99.00
10  6 19 15    15.0 1     0.0     0.00    24.60    99.00    99.00
10  6 19 16    15.0 1     0.0     0.00    24.90    99.00    99.00
10  6 19 17    15.0 1     0.0     0.00    24.60    99.00    99.00
10  6 19 18    15.0 1     1.0     3.10    24.10    99.00    99.00
10  6 19 19    15.0 1   354.0     4.10    22.60    99.00    99.00
10  6 19 20    15.0 1   338.0     4.10    20.60    99.00    99.00
10  6 19 21    15.0 1   336.0     4.10    19.00    99.00    99.00
10  6 19 22    15.0 1   336.0     3.60    18.10    99.00    99.00
10  6 19 23    15.0 1   334.0     3.60    17.40    99.00    99.00
10  6 19 24    15.0 1   318.0     3.60    16.30    99.00    99.00
10  6 20  1    15.0 1   321.0     3.10    15.10    99.00    99.00
10  6 20  2    15.0 1   332.0     2.60    14.40    99.00    99.00
10  6 20  3    15.0 1   331.0     2.10    13.90    99.00    99.00
10  6 20  4    15.0 1   331.0     1.50    13.50    99.00    99.00
10  6 20  5    15.0 1   328.0     1.00    13.00    99.00    99.00
10  6 20  6    15.0 1     1.0     1.00    13.00    99.00    99.00
10  6 20  7    15.0 1   347.0     1.50    14.10    99.00    99.00
10  6 20  8    15.0 1     0.0     0.00    15.50    99.00    99.00
10  6 20  9    15.0 1     0.0     0.00    17.10    99.00    99.00
10  6 20 10    15.0 1     0.0     0.00    18.90    99.00    99.00
10  6 20 11    15.0 1     0.0     0.00    20.40    99.00    99.00
10  6 20 12    15.0 1     0.0     0.00    21.90    99.00    99.00
10  6 20 13    15.0 1   306.0     0.50    23.10    99.00    99.00
10  6 20 14    15.0 1   327.0     1.50    24.10    99.00    99.00
10  6 20 15    15.0 1   354.0     2.10    24.90    99.00    99.00
10  6 20 16    15.0 1   356.0     3.10    25.10    99.00    99.00
10  6 20 17    15.0 1     0.0     0.00    25.00    99.00    99.00
10  6 20 18    15.0 1     0.0     0.00    24.50    99.00    99.00
10  6 20 19    15.0 1   356.0     3.10    23.90    99.00    99.00
10  6 20 20    15.0 1   346.0     3.10    22.80    99.00    99.00
10  6 20 21    15.0 1   328.0     2.10    21.60    99.00    99.00
10  6 20 22    15.0 1   301.0     1.50    20.60    99.00    99.00
10  6 20 23    15.0 1   256.0     2.10    19.10    99.00    99.00
10  6 20 24    15.0 1   256.0     2.10    17.90    99.00    99.00
10  6 21  1    15.0 1   277.0     2.10    17.10    99.00    99.00
10  6 21  2    15.0 1   300.0     2.60    16.50    99.00    99.00
10  6 21  3    15.0 1   317.0     2.60    15.80    99.00    99.00
10  6 21  4    15.0 1   324.0     2.10    15.10    99.00    99.00
10  6 21  5    15.0 1   322.0     1.00    14.60    99.00    99.00
10  6 21  6    15.0 1     0.0     0.00    14.60    99.00    99.00
10  6 21  7    15.0 1     0.0     0.00    16.50    99.00    99.00
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10  6 21  8    15.0 1     0.0     0.00    18.40    99.00    99.00
10  6 21  9    15.0 1     0.0     0.00    20.10    99.00    99.00
10  6 21 10    15.0 1     0.0     0.00    21.80    99.00    99.00
10  6 21 11    15.0 1     0.0     0.00    23.10    99.00    99.00
10  6 21 12    15.0 1     0.0     0.00    24.50    99.00    99.00
10  6 21 13    15.0 1     0.0     0.00    25.60    99.00    99.00
10  6 21 14    15.0 1     0.0     0.00    26.50    99.00    99.00
10  6 21 15    15.0 1    11.0     1.00    27.10    99.00    99.00
10  6 21 16    15.0 1    22.0     2.10    27.50    99.00    99.00
10  6 21 17    15.0 1    21.0     3.10    27.40    99.00    99.00
10  6 21 18    15.0 1    28.0     2.60    26.60    99.00    99.00
10  6 21 19    15.0 1    18.0     2.60    26.10    99.00    99.00
10  6 21 20    15.0 1   290.0     2.60    25.00    99.00    99.00
10  6 21 21    15.0 1   267.0     6.20    20.60    99.00    99.00
10  6 21 22    15.0 1   271.0     5.10    18.50    99.00    99.00
10  6 21 23    15.0 1   258.0     4.10    17.50    99.00    99.00
10  6 21 24    15.0 1   268.0     3.10    16.60    99.00    99.00
10  6 22  1    15.0 1   317.0     1.50    16.30    99.00    99.00
10  6 22  2    15.0 1   112.0     1.00    16.00    99.00    99.00
10  6 22  3    15.0 1   165.0     0.50    16.10    99.00    99.00
10  6 22  4    15.0 1   211.0     0.50    15.60    99.00    99.00
10  6 22  5    15.0 1   238.0     0.50    14.90    99.00    99.00
10  6 22  6    15.0 1   284.0     0.50    14.80    99.00    99.00
10  6 22  7    15.0 1   323.0     0.50    17.00    99.00    99.00
10  6 22  8    15.0 1     0.0     0.00    18.60    99.00    99.00
10  6 22  9    15.0 1     0.0     0.00    20.50    99.00    99.00
10  6 22 10    15.0 1     0.0     0.00    22.40    99.00    99.00
10  6 22 11    15.0 1     0.0     0.00    24.10    99.00    99.00
10  6 22 12    15.0 1     0.0     0.00    25.90    99.00    99.00
10  6 22 13    15.0 1     0.0     0.00    27.10    99.00    99.00
10  6 22 14    15.0 1     0.0     0.00    28.10    99.00    99.00
10  6 22 15    15.0 1    25.0     0.50    28.90    99.00    99.00
10  6 22 16    15.0 1    34.0     1.00    29.30    99.00    99.00
10  6 22 17    15.0 1    30.0     1.50    29.40    99.00    99.00
10  6 22 18    15.0 1    37.0     1.50    29.00    99.00    99.00
10  6 22 19    15.0 1    23.0     2.10    28.30    99.00    99.00
10  6 22 20    15.0 1   297.0     3.60    26.80    99.00    99.00
10  6 22 21    15.0 1   279.0     4.60    22.10    99.00    99.00
10  6 22 22    15.0 1   282.0     4.10    20.10    99.00    99.00
10  6 22 23    15.0 1   294.0     3.60    19.10    99.00    99.00
10  6 22 24    15.0 1   288.0     2.60    18.50    99.00    99.00
10  6 23  1    15.0 1   345.0     0.50    18.30    99.00    99.00
10  6 23  2    15.0 1    62.0     0.50    18.00    99.00    99.00
10  6 23  3    15.0 1     0.0     0.00    17.80    99.00    99.00
10  6 23  4    15.0 1     0.0     0.00    17.60    99.00    99.00
10  6 23  5    15.0 1     0.0     0.00    17.30    99.00    99.00
10  6 23  6    15.0 1     0.0     0.00    17.10    99.00    99.00
10  6 23  7    15.0 1     0.0     0.00    18.50    99.00    99.00
10  6 23  8    15.0 1     0.0     0.00    20.90    99.00    99.00
10  6 23  9    15.0 1     0.0     0.00    22.80    99.00    99.00
10  6 23 10    15.0 1     0.0     0.00    24.60    99.00    99.00
10  6 23 11    15.0 1     0.0     0.00    26.40    99.00    99.00
10  6 23 12    15.0 1     0.0     0.00    28.00    99.00    99.00
10  6 23 13    15.0 1     0.0     0.00    29.30    99.00    99.00
10  6 23 14    15.0 1   350.0     0.50    30.10    99.00    99.00
10  6 23 15    15.0 1     0.0     0.00    30.80    99.00    99.00
10  6 23 16    15.0 1    13.0     2.10    31.00    99.00    99.00
10  6 23 17    15.0 1    12.0     2.60    30.80    99.00    99.00
10  6 23 18    15.0 1    21.0     2.10    30.30    99.00    99.00
10  6 23 19    15.0 1     4.0     2.10    29.60    99.00    99.00
10  6 23 20    15.0 1   273.0     4.10    28.10    99.00    99.00
10  6 23 21    15.0 1   258.0     5.70    23.50    99.00    99.00
10  6 23 22    15.0 1   261.0     5.10    21.90    99.00    99.00
10  6 23 23    15.0 1   281.0     3.60    21.10    99.00    99.00
10  6 23 24    15.0 1   318.0     3.10    20.80    99.00    99.00
10  6 24  1    15.0 1   354.0     3.60    20.50    99.00    99.00
10  6 24  2    15.0 1     0.0     0.00    19.90    99.00    99.00
10  6 24  3    15.0 1     0.0     0.00    19.10    99.00    99.00
10  6 24  4    15.0 1   351.0     1.00    18.50    99.00    99.00
10  6 24  5    15.0 1     0.0     0.00    17.90    99.00    99.00
10  6 24  6    15.0 1     7.0     1.00    17.60    99.00    99.00
10  6 24  7    15.0 1     5.0     1.50    18.60    99.00    99.00
10  6 24  8    15.0 1     0.0     0.00    20.10    99.00    99.00
10  6 24  9    15.0 1     0.0     0.00    21.80    99.00    99.00
10  6 24 10    15.0 1     0.0     0.00    23.60    99.00    99.00
10  6 24 11    15.0 1     0.0     0.00    25.30    99.00    99.00
10  6 24 12    15.0 1     0.0     0.00    26.60    99.00    99.00
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10  6 24 13    15.0 1   337.0     0.50    27.80    99.00    99.00
10  6 24 14    15.0 1   354.0     1.00    28.60    99.00    99.00
10  6 24 15    15.0 1     0.0     0.00    29.30    99.00    99.00
10  6 24 16    15.0 1   356.0     3.10    29.80    99.00    99.00
10  6 24 17    15.0 1     0.0     0.00    29.40    99.00    99.00
10  6 24 18    15.0 1     0.0     0.00    28.60    99.00    99.00
10  6 24 19    15.0 1   356.0     3.60    27.50    99.00    99.00
10  6 24 20    15.0 1   329.0     3.10    26.60    99.00    99.00
10  6 24 21    15.0 1   271.0     5.10    24.10    99.00    99.00
10  6 24 22    15.0 1   258.0     5.10    21.10    99.00    99.00
10  6 24 23    15.0 1   266.0     4.60    20.10    99.00    99.00
10  6 24 24    15.0 1   293.0     3.60    19.50    99.00    99.00
10  6 25  1    15.0 1   313.0     2.60    18.90    99.00    99.00
10  6 25  2    15.0 1   328.0     2.60    18.60    99.00    99.00
10  6 25  3    15.0 1   337.0     2.10    18.40    99.00    99.00
10  6 25  4    15.0 1   329.0     1.50    18.10    99.00    99.00
10  6 25  5    15.0 1   327.0     1.00    17.60    99.00    99.00
10  6 25  6    15.0 1   336.0     1.50    17.60    99.00    99.00
10  6 25  7    15.0 1   339.0     1.50    18.50    99.00    99.00
10  6 25  8    15.0 1     0.0     0.00    19.60    99.00    99.00
10  6 25  9    15.0 1     0.0     0.00    21.00    99.00    99.00
10  6 25 10    15.0 1     0.0     0.00    22.60    99.00    99.00
10  6 25 11    15.0 1     0.0     0.00    24.40    99.00    99.00
10  6 25 12    15.0 1     0.0     0.00    25.90    99.00    99.00
10  6 25 13    15.0 1     0.0     0.00    27.10    99.00    99.00
10  6 25 14    15.0 1   349.0     0.50    28.10    99.00    99.00
10  6 25 15    15.0 1   346.0     1.00    28.90    99.00    99.00
10  6 25 16    15.0 1     0.0     0.00    29.10    99.00    99.00
10  6 25 17    15.0 1     8.0     3.10    29.10    99.00    99.00
10  6 25 18    15.0 1    12.0     2.60    28.60    99.00    99.00
10  6 25 19    15.0 1   316.0     3.10    28.00    99.00    99.00
10  6 25 20    15.0 1   269.0     5.10    24.80    99.00    99.00
10  6 25 21    15.0 1   275.0     5.70    21.60    99.00    99.00
10  6 25 22    15.0 1   272.0     4.60    20.30    99.00    99.00
10  6 25 23    15.0 1   271.0     4.10    19.50    99.00    99.00
10  6 25 24    15.0 1   282.0     3.60    19.00    99.00    99.00
10  6 26  1    15.0 1   282.0     3.10    18.60    99.00    99.00
10  6 26  2    15.0 1   305.0     2.60    18.30    99.00    99.00
10  6 26  3    15.0 1   313.0     2.10    18.00    99.00    99.00
10  6 26  4    15.0 1   315.0     2.10    17.60    99.00    99.00
10  6 26  5    15.0 1   299.0     2.10    17.40    99.00    99.00
10  6 26  6    15.0 1   303.0     1.50    17.50    99.00    99.00
10  6 26  7    15.0 1   306.0     0.50    19.00    99.00    99.00
10  6 26  8    15.0 1     0.0     0.00    20.60    99.00    99.00
10  6 26  9    15.0 1     0.0     0.00    22.30    99.00    99.00
10  6 26 10    15.0 1     0.0     0.00    24.00    99.00    99.00
10  6 26 11    15.0 1     0.0     0.00    25.90    99.00    99.00
10  6 26 12    15.0 1     0.0     0.00    27.30    99.00    99.00
10  6 26 13    15.0 1     0.0     0.00    28.60    99.00    99.00
10  6 26 14    15.0 1   316.0     0.50    29.80    99.00    99.00
10  6 26 15    15.0 1     0.0     0.00    30.60    99.00    99.00
10  6 26 16    15.0 1    10.0     1.50    30.90    99.00    99.00
10  6 26 17    15.0 1    18.0     2.10    30.90    99.00    99.00
10  6 26 18    15.0 1    24.0     2.10    30.50    99.00    99.00
10  6 26 19    15.0 1    18.0     2.10    29.80    99.00    99.00
10  6 26 20    15.0 1     0.0     0.00    28.50    99.00    99.00
10  6 26 21    15.0 1   283.0     3.60    27.10    99.00    99.00
10  6 26 22    15.0 1   280.0     4.10    24.10    99.00    99.00
10  6 26 23    15.0 1   289.0     3.10    23.00    99.00    99.00
10  6 26 24    15.0 1   313.0     2.10    22.30    99.00    99.00
10  6 27  1    15.0 1   331.0     1.00    21.80    99.00    99.00
10  6 27  2    15.0 1     5.0     0.50    21.10    99.00    99.00
10  6 27  3    15.0 1     0.0     0.00    20.80    99.00    99.00
10  6 27  4    15.0 1   208.0     1.00    20.40    99.00    99.00
10  6 27  5    15.0 1   226.0     1.50    20.10    99.00    99.00
10  6 27  6    15.0 1   236.0     1.50    20.30    99.00    99.00
10  6 27  7    15.0 1   280.0     1.50    22.60    99.00    99.00
10  6 27  8    15.0 1   262.0     1.00    24.60    99.00    99.00
10  6 27  9    15.0 1   264.0     0.50    26.50    99.00    99.00
10  6 27 10    15.0 1     0.0     0.00    28.30    99.00    99.00
10  6 27 11    15.0 1     0.0     0.00    30.00    99.00    99.00
10  6 27 12    15.0 1     0.0     0.00    31.60    99.00    99.00
10  6 27 13    15.0 1   298.0     0.50    33.00    99.00    99.00
10  6 27 14    15.0 1     8.0     0.50    34.00    99.00    99.00
10  6 27 15    15.0 1    32.0     1.00    34.60    99.00    99.00
10  6 27 16    15.0 1    27.0     2.10    34.80    99.00    99.00
10  6 27 17    15.0 1    27.0     3.10    34.10    99.00    99.00
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10  6 27 18    15.0 1    45.0     3.60    33.30    99.00    99.00
10  6 27 19    15.0 1     6.0     2.60    32.50    99.00    99.00
10  6 27 20    15.0 1   292.0     5.10    31.00    99.00    99.00
10  6 27 21    15.0 1   283.0     4.60    27.40    99.00    99.00
10  6 27 22    15.0 1   278.0     4.10    25.90    99.00    99.00
10  6 27 23    15.0 1   283.0     3.60    24.90    99.00    99.00
10  6 27 24    15.0 1   315.0     3.10    24.30    99.00    99.00
10  6 28  1    15.0 1    37.0     1.50    23.60    99.00    99.00
10  6 28  2    15.0 1    67.0     1.50    23.40    99.00    99.00
10  6 28  3    15.0 1    36.0     1.00    22.60    99.00    99.00
10  6 28  4    15.0 1    15.0     0.50    22.10    99.00    99.00
10  6 28  5    15.0 1     0.0     0.00    21.40    99.00    99.00
10  6 28  6    15.0 1     0.0     0.00    21.10    99.00    99.00
10  6 28  7    15.0 1     0.0     0.00    23.50    99.00    99.00
10  6 28  8    15.0 1     0.0     0.00    25.40    99.00    99.00
10  6 28  9    15.0 1     0.0     0.00    27.60    99.00    99.00
10  6 28 10    15.0 1     0.0     0.00    29.40    99.00    99.00
10  6 28 11    15.0 1     0.0     0.00    31.10    99.00    99.00
10  6 28 12    15.0 1     0.0     0.00    33.00    99.00    99.00
10  6 28 13    15.0 1     0.0     0.00    34.50    99.00    99.00
10  6 28 14    15.0 1    17.0     0.50    35.60    99.00    99.00
10  6 28 15    15.0 1    35.0     1.00    36.30    99.00    99.00
10  6 28 16    15.0 1    32.0     2.10    36.40    99.00    99.00
10  6 28 17    15.0 1    26.0     2.10    36.00    99.00    99.00
10  6 28 18    15.0 1   322.0     3.10    35.80    99.00    99.00
10  6 28 19    15.0 1   295.0     5.70    31.60    99.00    99.00
10  6 28 20    15.0 1   284.0     4.60    27.90    99.00    99.00
10  6 28 21    15.0 1   276.0     4.10    25.60    99.00    99.00
10  6 28 22    15.0 1   304.0     3.10    24.50    99.00    99.00
10  6 28 23    15.0 1     2.0     2.10    24.10    99.00    99.00
10  6 28 24    15.0 1    48.0     3.10    23.60    99.00    99.00
10  6 29  1    15.0 1    36.0     3.10    23.00    99.00    99.00
10  6 29  2    15.0 1     9.0     2.10    22.10    99.00    99.00
10  6 29  3    15.0 1   352.0     2.10    21.40    99.00    99.00
10  6 29  4    15.0 1   342.0     2.10    20.60    99.00    99.00
10  6 29  5    15.0 1   339.0     1.50    20.10    99.00    99.00
10  6 29  6    15.0 1   336.0     1.00    20.10    99.00    99.00
10  6 29  7    15.0 1   289.0     1.00    22.10    99.00    99.00
10  6 29  8    15.0 1     0.0     0.00    24.00    99.00    99.00
10  6 29  9    15.0 1     0.0     0.00    25.60    99.00    99.00
10  6 29 10    15.0 1     0.0     0.00    27.50    99.00    99.00
10  6 29 11    15.0 1     0.0     0.00    29.10    99.00    99.00
10  6 29 12    15.0 1     0.0     0.00    30.80    99.00    99.00
10  6 29 13    15.0 1     0.0     0.00    32.10    99.00    99.00
10  6 29 14    15.0 1     6.0     1.00    33.10    99.00    99.00
10  6 29 15    15.0 1    14.0     2.10    33.90    99.00    99.00
10  6 29 16    15.0 1     0.0     0.00    34.10    99.00    99.00
10  6 29 17    15.0 1    13.0     2.60    33.80    99.00    99.00
10  6 29 18    15.0 1   347.0     2.60    33.60    99.00    99.00
10  6 29 19    15.0 1   295.0     4.60    32.10    99.00    99.00
10  6 29 20    15.0 1   272.0     5.10    27.10    99.00    99.00
10  6 29 21    15.0 1   269.0     5.70    24.60    99.00    99.00
10  6 29 22    15.0 1   272.0     4.60    23.10    99.00    99.00
10  6 29 23    15.0 1   284.0     3.60    22.40    99.00    99.00
10  6 29 24    15.0 1   297.0     2.10    22.10    99.00    99.00
10  6 30  1    15.0 1     8.0     1.00    21.90    99.00    99.00
10  6 30  2    15.0 1    33.0     0.50    21.60    99.00    99.00
10  6 30  3    15.0 1   310.0     0.50    21.10    99.00    99.00
10  6 30  4    15.0 1   276.0     0.50    20.80    99.00    99.00
10  6 30  5    15.0 1   298.0     0.50    20.30    99.00    99.00
10  6 30  6    15.0 1   327.0     0.50    20.10    99.00    99.00
10  6 30  7    15.0 1   354.0     1.50    21.60    99.00    99.00
10  6 30  8    15.0 1   329.0     0.50    23.00    99.00    99.00
10  6 30  9    15.0 1     0.0     0.00    24.50    99.00    99.00
10  6 30 10    15.0 1     0.0     0.00    26.10    99.00    99.00
10  6 30 11    15.0 1     0.0     0.00    27.60    99.00    99.00
10  6 30 12    15.0 1   306.0     0.50    29.10    99.00    99.00
10  6 30 13    15.0 1   344.0     1.00    30.10    99.00    99.00
10  6 30 14    15.0 1   349.0     1.50    31.00    99.00    99.00
10  6 30 15    15.0 1     5.0     3.10    31.40    99.00    99.00
10  6 30 16    15.0 1     2.0     4.10    31.30    99.00    99.00
10  6 30 17    15.0 1     0.0     0.00    30.40    99.00    99.00
10  6 30 18    15.0 1     2.0     3.60    29.40    99.00    99.00
10  6 30 19    15.0 1   348.0     4.10    28.00    99.00    99.00
10  6 30 20    15.0 1   331.0     4.10    26.30    99.00    99.00
10  6 30 21    15.0 1   319.0     3.60    24.90    99.00    99.00
10  6 30 22    15.0 1   292.0     3.60    23.60    99.00    99.00
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10  6 30 23    15.0 1   287.0     3.60    22.10    99.00    99.00
10  6 30 24    15.0 1   307.0     3.10    21.00    99.00    99.00
10  7  1  1    15.0 1   338.0     3.10    20.10    99.00    99.00
10  7  1  2    15.0 1     0.0     0.00    19.30    99.00    99.00
10  7  1  3    15.0 1    14.0     2.10    18.60    99.00    99.00
10  7  1  4    15.0 1     0.0     0.00    18.00    99.00    99.00
10  7  1  5    15.0 1    11.0     1.00    17.30    99.00    99.00
10  7  1  6    15.0 1    10.0     1.00    17.10    99.00    99.00
10  7  1  7    15.0 1     2.0     1.50    18.10    99.00    99.00
10  7  1  8    15.0 1   334.0     1.00    19.90    99.00    99.00
10  7  1  9    15.0 1     0.0     0.00    21.60    99.00    99.00
10  7  1 10    15.0 1     0.0     0.00    23.30    99.00    99.00
10  7  1 11    15.0 1     0.0     0.00    24.90    99.00    99.00
10  7  1 12    15.0 1     0.0     0.00    26.50    99.00    99.00
10  7  1 13    15.0 1   332.0     0.50    27.60    99.00    99.00
10  7  1 14    15.0 1   350.0     1.00    28.60    99.00    99.00
10  7  1 15    15.0 1     1.0     2.10    29.10    99.00    99.00
10  7  1 16    15.0 1     1.0     2.60    29.40    99.00    99.00
10  7  1 17    15.0 1     0.0     0.00    29.00    99.00    99.00
10  7  1 18    15.0 1     0.0     0.00    28.10    99.00    99.00
10  7  1 19    15.0 1   358.0     3.60    26.80    99.00    99.00
10  7  1 20    15.0 1   345.0     3.60    25.40    99.00    99.00
10  7  1 21    15.0 1   310.0     3.60    24.10    99.00    99.00
10  7  1 22    15.0 1   285.0     4.10    22.30    99.00    99.00
10  7  1 23    15.0 1   303.0     3.60    20.90    99.00    99.00
10  7  1 24    15.0 1   324.0     3.10    19.80    99.00    99.00
10  7  2  1    15.0 1   330.0     3.10    18.90    99.00    99.00
10  7  2  2    15.0 1   341.0     2.60    18.10    99.00    99.00
10  7  2  3    15.0 1   355.0     2.10    17.60    99.00    99.00
10  7  2  4    15.0 1    11.0     1.50    17.00    99.00    99.00
10  7  2  5    15.0 1    10.0     1.00    16.40    99.00    99.00
10  7  2  6    15.0 1   352.0     1.00    16.30    99.00    99.00
10  7  2  7    15.0 1   351.0     1.50    17.40    99.00    99.00
10  7  2  8    15.0 1     0.0     0.00    18.90    99.00    99.00
10  7  2  9    15.0 1     0.0     0.00    20.60    99.00    99.00
10  7  2 10    15.0 1     0.0     0.00    22.40    99.00    99.00
10  7  2 11    15.0 1     0.0     0.00    24.10    99.00    99.00
10  7  2 12    15.0 1   303.0     0.50    25.40    99.00    99.00
10  7  2 13    15.0 1   324.0     1.00    26.60    99.00    99.00
10  7  2 14    15.0 1   342.0     1.50    27.50    99.00    99.00
10  7  2 15    15.0 1   352.0     3.10    28.00    99.00    99.00
10  7  2 16    15.0 1     3.0     3.60    28.10    99.00    99.00
10  7  2 17    15.0 1   358.0     4.10    27.60    99.00    99.00
10  7  2 18    15.0 1   359.0     2.60    27.30    99.00    99.00
10  7  2 19    15.0 1   355.0     3.60    26.50    99.00    99.00
10  7  2 20    15.0 1   327.0     3.60    25.40    99.00    99.00
10  7  2 21    15.0 1   333.0     3.60    24.00    99.00    99.00
10  7  2 22    15.0 1   319.0     3.60    23.00    99.00    99.00
10  7  2 23    15.0 1   306.0     3.60    22.10    99.00    99.00
10  7  2 24    15.0 1   312.0     3.60    20.90    99.00    99.00
10  7  3  1    15.0 1   319.0     2.60    20.00    99.00    99.00
10  7  3  2    15.0 1   324.0     1.50    19.30    99.00    99.00
10  7  3  3    15.0 1   336.0     1.00    18.90    99.00    99.00
10  7  3  4    15.0 1   337.0     0.50    18.50    99.00    99.00
10  7  3  5    15.0 1   311.0     1.00    18.00    99.00    99.00
10  7  3  6    15.0 1   298.0     1.00    17.90    99.00    99.00
10  7  3  7    15.0 1   326.0     1.00    19.50    99.00    99.00
10  7  3  8    15.0 1     0.0     0.00    21.10    99.00    99.00
10  7  3  9    15.0 1     0.0     0.00    22.50    99.00    99.00
10  7  3 10    15.0 1     0.0     0.00    24.10    99.00    99.00
10  7  3 11    15.0 1     0.0     0.00    25.60    99.00    99.00
10  7  3 12    15.0 1     0.0     0.00    26.90    99.00    99.00
10  7  3 13    15.0 1   299.0     0.50    28.00    99.00    99.00
10  7  3 14    15.0 1   326.0     1.00    29.00    99.00    99.00
10  7  3 15    15.0 1   347.0     1.50    29.60    99.00    99.00
10  7  3 16    15.0 1     0.0     0.00    29.80    99.00    99.00
10  7  3 17    15.0 1    12.0     3.10    29.40    99.00    99.00
10  7  3 18    15.0 1    17.0     2.60    28.60    99.00    99.00
10  7  3 19    15.0 1     7.0     3.10    27.90    99.00    99.00
10  7  3 20    15.0 1   349.0     1.50    26.60    99.00    99.00
10  7  3 21    15.0 1   256.0     1.50    25.30    99.00    99.00
10  7  3 22    15.0 1   265.0     4.10    22.90    99.00    99.00
10  7  3 23    15.0 1   265.0     3.60    21.30    99.00    99.00
10  7  3 24    15.0 1   251.0     2.10    20.60    99.00    99.00
10  7  4  1    15.0 1   245.0     1.00    20.00    99.00    99.00
10  7  4  2    15.0 1   269.0     1.00    19.50    99.00    99.00
10  7  4  3    15.0 1   290.0     2.10    19.00    99.00    99.00
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10  7  4  4    15.0 1   301.0     2.60    18.30    99.00    99.00
10  7  4  5    15.0 1   306.0     2.10    17.60    99.00    99.00
10  7  4  6    15.0 1   305.0     1.50    17.40    99.00    99.00
10  7  4  7    15.0 1   331.0     2.10    19.10    99.00    99.00
10  7  4  8    15.0 1   319.0     0.50    21.00    99.00    99.00
10  7  4  9    15.0 1     0.0     0.00    22.80    99.00    99.00
10  7  4 10    15.0 1     0.0     0.00    24.60    99.00    99.00
10  7  4 11    15.0 1     0.0     0.00    26.30    99.00    99.00
10  7  4 12    15.0 1     0.0     0.00    27.90    99.00    99.00
10  7  4 13    15.0 1     0.0     0.00    29.50    99.00    99.00
10  7  4 14    15.0 1   349.0     0.50    30.60    99.00    99.00
10  7  4 15    15.0 1    13.0     1.00    31.10    99.00    99.00
10  7  4 16    15.0 1    25.0     1.50    31.80    99.00    99.00
10  7  4 17    15.0 1    18.0     2.10    31.40    99.00    99.00
10  7  4 18    15.0 1    14.0     2.10    30.60    99.00    99.00
10  7  4 19    15.0 1     0.0     0.00    29.80    99.00    99.00
10  7  4 20    15.0 1   317.0     3.10    28.50    99.00    99.00
10  7  4 21    15.0 1   285.0     5.10    24.30    99.00    99.00
10  7  4 22    15.0 1   284.0     4.10    21.80    99.00    99.00
10  7  4 23    15.0 1   277.0     3.60    21.00    99.00    99.00
10  7  4 24    15.0 1   311.0     2.60    20.60    99.00    99.00
10  7  5  1    15.0 1    16.0     2.10    20.10    99.00    99.00
10  7  5  2    15.0 1    53.0     2.10    19.60    99.00    99.00
10  7  5  3    15.0 1     0.0     0.00    19.40    99.00    99.00
10  7  5  4    15.0 1   202.0     0.50    18.90    99.00    99.00
10  7  5  5    15.0 1   207.0     0.50    18.40    99.00    99.00
10  7  5  6    15.0 1   226.0     0.50    18.10    99.00    99.00
10  7  5  7    15.0 1   283.0     0.50    20.60    99.00    99.00
10  7  5  8    15.0 1     0.0     0.00    22.60    99.00    99.00
10  7  5  9    15.0 1   283.0     0.50    24.50    99.00    99.00
10  7  5 10    15.0 1     0.0     0.00    26.40    99.00    99.00
10  7  5 11    15.0 1     0.0     0.00    28.50    99.00    99.00
10  7  5 12    15.0 1     0.0     0.00    30.10    99.00    99.00
10  7  5 13    15.0 1     0.0     0.00    31.50    99.00    99.00
10  7  5 14    15.0 1     0.0     0.00    32.50    99.00    99.00
10  7  5 15    15.0 1   325.0     0.50    33.30    99.00    99.00
10  7  5 16    15.0 1   345.0     1.00    33.60    99.00    99.00
10  7  5 17    15.0 1   344.0     2.10    33.50    99.00    99.00
10  7  5 18    15.0 1   307.0     3.10    32.30    99.00    99.00
10  7  5 19    15.0 1   281.0     4.60    28.10    99.00    99.00
10  7  5 20    15.0 1   283.0     4.60    24.30    99.00    99.00
10  7  5 21    15.0 1   281.0     4.60    22.00    99.00    99.00
10  7  5 22    15.0 1   276.0     4.10    20.40    99.00    99.00
10  7  5 23    15.0 1   316.0     3.10    19.50    99.00    99.00
10  7  5 24    15.0 1   354.0     3.60    18.80    99.00    99.00
10  7  6  1    15.0 1   339.0     3.60    18.00    99.00    99.00
10  7  6  2    15.0 1   349.0     3.60    17.40    99.00    99.00
10  7  6  3    15.0 1   354.0     3.60    16.80    99.00    99.00
10  7  6  4    15.0 1     0.0     0.00    16.40    99.00    99.00
10  7  6  5    15.0 1     9.0     3.10    16.00    99.00    99.00
10  7  6  6    15.0 1     2.0     2.10    16.30    99.00    99.00
10  7  6  7    15.0 1    13.0     0.50    17.60    99.00    99.00
10  7  6  8    15.0 1     0.0     0.00    19.80    99.00    99.00
10  7  6  9    15.0 1     0.0     0.00    21.80    99.00    99.00
10  7  6 10    15.0 1     0.0     0.00    24.00    99.00    99.00
10  7  6 11    15.0 1     0.0     0.00    26.10    99.00    99.00
10  7  6 12    15.0 1     0.0     0.00    28.00    99.00    99.00
10  7  6 13    15.0 1   308.0     0.50    29.60    99.00    99.00
10  7  6 14    15.0 1   311.0     0.50    30.80    99.00    99.00
10  7  6 15    15.0 1   338.0     1.00    31.60    99.00    99.00
10  7  6 16    15.0 1   354.0     2.10    31.90    99.00    99.00
10  7  6 17    15.0 1   348.0     2.60    31.50    99.00    99.00
10  7  6 18    15.0 1   322.0     3.60    30.10    99.00    99.00
10  7  6 19    15.0 1   305.0     5.10    26.60    99.00    99.00
10  7  6 20    15.0 1   280.0     5.10    23.10    99.00    99.00
10  7  6 21    15.0 1   282.0     5.10    20.80    99.00    99.00
10  7  6 22    15.0 1   285.0     4.10    19.50    99.00    99.00
10  7  6 23    15.0 1   298.0     2.60    18.60    99.00    99.00
10  7  6 24    15.0 1   345.0     2.60    18.30    99.00    99.00
10  7  7  1    15.0 1     0.0     0.00    17.60    99.00    99.00
10  7  7  2    15.0 1     5.0     2.60    17.10    99.00    99.00
10  7  7  3    15.0 1   359.0     2.10    16.90    99.00    99.00
10  7  7  4    15.0 1   347.0     1.50    16.60    99.00    99.00
10  7  7  5    15.0 1     0.0     0.00    16.30    99.00    99.00
10  7  7  6    15.0 1    22.0     1.00    16.30    99.00    99.00
10  7  7  7    15.0 1     0.0     0.00    18.30    99.00    99.00
10  7  7  8    15.0 1     0.0     0.00    20.10    99.00    99.00
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10  7  7  9    15.0 1     0.0     0.00    21.90    99.00    99.00
10  7  7 10    15.0 1     0.0     0.00    23.90    99.00    99.00
10  7  7 11    15.0 1     0.0     0.00    26.30    99.00    99.00
10  7  7 12    15.0 1     0.0     0.00    28.40    99.00    99.00
10  7  7 13    15.0 1     0.0     0.00    30.00    99.00    99.00
10  7  7 14    15.0 1   347.0     0.50    31.10    99.00    99.00
10  7  7 15    15.0 1    10.0     1.50    31.90    99.00    99.00
10  7  7 16    15.0 1    19.0     2.60    32.10    99.00    99.00
10  7  7 17    15.0 1    20.0     3.10    31.50    99.00    99.00
10  7  7 18    15.0 1     0.0     0.00    30.80    99.00    99.00
10  7  7 19    15.0 1   314.0     5.10    28.40    99.00    99.00
10  7  7 20    15.0 1   276.0     6.20    23.60    99.00    99.00
10  7  7 21    15.0 1   279.0     5.70    21.30    99.00    99.00
10  7  7 22    15.0 1   279.0     5.10    19.80    99.00    99.00
10  7  7 23    15.0 1   278.0     3.10    18.90    99.00    99.00
10  7  7 24    15.0 1   336.0     1.50    18.60    99.00    99.00
10  7  8  1    15.0 1     0.0     0.00    18.10    99.00    99.00
10  7  8  2    15.0 1   352.0     0.50    17.80    99.00    99.00
10  7  8  3    15.0 1     0.0     0.00    17.50    99.00    99.00
10  7  8  4    15.0 1     0.0     0.00    17.40    99.00    99.00
10  7  8  5    15.0 1    78.0     0.50    16.90    99.00    99.00
10  7  8  6    15.0 1     0.0     0.00    16.60    99.00    99.00
10  7  8  7    15.0 1     0.0     0.00    19.00    99.00    99.00
10  7  8  8    15.0 1     0.0     0.00    20.90    99.00    99.00
10  7  8  9    15.0 1     0.0     0.00    22.40    99.00    99.00
10  7  8 10    15.0 1     0.0     0.00    24.30    99.00    99.00
10  7  8 11    15.0 1     0.0     0.00    26.60    99.00    99.00
10  7  8 12    15.0 1     0.0     0.00    28.60    99.00    99.00
10  7  8 13    15.0 1   332.0     0.50    30.30    99.00    99.00
10  7  8 14    15.0 1   347.0     1.00    31.40    99.00    99.00
10  7  8 15    15.0 1     0.0     0.00    32.10    99.00    99.00
10  7  8 16    15.0 1    13.0     3.10    32.10    99.00    99.00
10  7  8 17    15.0 1    23.0     3.10    31.50    99.00    99.00
10  7  8 18    15.0 1     6.0     2.60    31.10    99.00    99.00
10  7  8 19    15.0 1   299.0     4.10    30.40    99.00    99.00
10  7  8 20    15.0 1   267.0     6.20    25.00    99.00    99.00
10  7  8 21    15.0 1   271.0     5.70    22.10    99.00    99.00
10  7  8 22    15.0 1   278.0     4.10    20.90    99.00    99.00
10  7  8 23    15.0 1   288.0     3.10    20.00    99.00    99.00
10  7  8 24    15.0 1   313.0     2.60    19.30    99.00    99.00
10  7  9  1    15.0 1   333.0     2.10    18.80    99.00    99.00
10  7  9  2    15.0 1   342.0     1.00    18.50    99.00    99.00
10  7  9  3    15.0 1    32.0     0.50    18.30    99.00    99.00
10  7  9  4    15.0 1     0.0     0.00    18.10    99.00    99.00
10  7  9  5    15.0 1     0.0     0.00    17.60    99.00    99.00
10  7  9  6    15.0 1     0.0     0.00    17.60    99.00    99.00
10  7  9  7    15.0 1    11.0     0.50    19.60    99.00    99.00
10  7  9  8    15.0 1     0.0     0.00    21.60    99.00    99.00
10  7  9  9    15.0 1     0.0     0.00    23.40    99.00    99.00
10  7  9 10    15.0 1     0.0     0.00    25.10    99.00    99.00
10  7  9 11    15.0 1     0.0     0.00    27.60    99.00    99.00
10  7  9 12    15.0 1     0.0     0.00    29.50    99.00    99.00
10  7  9 13    15.0 1   308.0     0.50    31.10    99.00    99.00
10  7  9 14    15.0 1   332.0     1.00    32.10    99.00    99.00
10  7  9 15    15.0 1   348.0     2.10    32.90    99.00    99.00
10  7  9 16    15.0 1     0.0     0.00    33.30    99.00    99.00
10  7  9 17    15.0 1    24.0     3.10    32.50    99.00    99.00
10  7  9 18    15.0 1    16.0     3.10    31.90    99.00    99.00
10  7  9 19    15.0 1   346.0     3.10    31.10    99.00    99.00
10  7  9 20    15.0 1   285.0     5.70    28.10    99.00    99.00
10  7  9 21    15.0 1   271.0     5.70    23.60    99.00    99.00
10  7  9 22    15.0 1   274.0     5.10    22.10    99.00    99.00
10  7  9 23    15.0 1   280.0     3.60    21.10    99.00    99.00
10  7  9 24    15.0 1   314.0     2.60    20.50    99.00    99.00
10  7 10  1    15.0 1   345.0     2.10    20.10    99.00    99.00
10  7 10  2    15.0 1   341.0     1.50    19.60    99.00    99.00
10  7 10  3    15.0 1   312.0     1.00    19.40    99.00    99.00
10  7 10  4    15.0 1   294.0     1.00    19.10    99.00    99.00
10  7 10  5    15.0 1   301.0     0.50    18.90    99.00    99.00
10  7 10  6    15.0 1   309.0     0.50    18.90    99.00    99.00
10  7 10  7    15.0 1   325.0     1.00    20.80    99.00    99.00
10  7 10  8    15.0 1     0.0     0.00    22.60    99.00    99.00
10  7 10  9    15.0 1     0.0     0.00    24.10    99.00    99.00
10  7 10 10    15.0 1     0.0     0.00    26.00    99.00    99.00
10  7 10 11    15.0 1     0.0     0.00    27.60    99.00    99.00
10  7 10 12    15.0 1     0.0     0.00    29.10    99.00    99.00
10  7 10 13    15.0 1     0.0     0.00    30.60    99.00    99.00
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10  7 10 14     15.0 1   315.0      0.50     31.90     99.00     99.00
10  7 10 15     15.0 1   346.0      1.00     32.60     99.00     99.00
10  7 10 16     15.0 1     0.0      0.00     33.10     99.00     99.00
10  7 10 17     15.0 1    12.0      2.60     33.00     99.00     99.00
10  7 10 18     15.0 1   349.0      2.10     32.80     99.00     99.00
10  7 10 19     15.0 1   292.0      5.10     30.10     99.00     99.00
10  7 10 20     15.0 1   274.0      5.10     25.10     99.00     99.00
10  7 10 21     15.0 1   284.0      4.60     22.60     99.00     99.00
10  7 10 22     15.0 1   279.0      3.60     21.40     99.00     99.00
10  7 10 23     15.0 1   301.0      2.60     20.60     99.00     99.00
10  7 10 24     15.0 1   344.0      2.10     20.10     99.00     99.00
10  7 11  1     15.0 1     6.0      3.60     19.50     99.00     99.00
10  7 11  2     15.0 1   352.0      3.10     18.30     99.00     99.00
10  7 11  3     15.0 1   321.0      2.60     17.60     99.00     99.00
10  7 11  4     15.0 1   314.0      3.10     17.30     99.00     99.00
10  7 11  5     15.0 1   301.0      2.60     17.10     99.00     99.00
10  7 11  6     15.0 1   307.0      2.10     17.40     99.00     99.00
10  7 11  7     15.0 1   315.0      1.50     19.10     99.00     99.00
10  7 11  8     15.0 1     0.0      0.00     21.00     99.00     99.00
10  7 11  9     15.0 1     0.0      0.00     22.80     99.00     99.00
10  7 11 10     15.0 1     0.0      0.00     24.60     99.00     99.00
10  7 11 11     15.0 1     0.0      0.00     26.60     99.00     99.00
10  7 11 12     15.0 1     0.0      0.00     28.10     99.00     99.00
10  7 11 13     15.0 1   298.0      0.50     29.60     99.00     99.00
10  7 11 14     15.0 1   314.0      0.50     30.90     99.00     99.00
10  7 11 15     15.0 1   344.0      1.00     31.60     99.00     99.00
10  7 11 16     15.0 1     0.0      0.00     32.00     99.00     99.00
10  7 11 17     15.0 1     9.0      2.60     31.90     99.00     99.00
10  7 11 18     15.0 1   329.0      2.10     31.80     99.00     99.00
10  7 11 19     15.0 1   284.0      5.10     28.10     99.00     99.00
10  7 11 20     15.0 1   268.0      4.60     24.10     99.00     99.00
10  7 11 21     15.0 1   280.0      4.10     22.30     99.00     99.00
10  7 11 22     15.0 1   282.0      3.60     21.10     99.00     99.00
10  7 11 23     15.0 1   303.0      2.60     20.60     99.00     99.00
10  7 11 24     15.0 1   336.0      2.60     20.10     99.00     99.00
10  7 12  1     15.0 1     0.0      0.00     19.50     99.00     99.00
10  7 12  2     15.0 1     0.0      0.00     18.80     99.00     99.00
10  7 12  3     15.0 1     3.0      2.10     18.40     99.00     99.00
10  7 12  4     15.0 1   354.0      2.10     18.10     99.00     99.00
10  7 12  5     15.0 1   337.0      1.50     18.10     99.00     99.00
10  7 12  6     15.0 1   330.0      1.50     18.30     99.00     99.00
10  7 12  7     15.0 1   300.0      2.10     20.00     99.00     99.00
10  7 12  8     15.0 1     0.0      0.00     21.80     99.00     99.00
10  7 12  9     15.0 1     0.0      0.00     23.60     99.00     99.00
10  7 12 10     15.0 1     0.0      0.00     25.50     99.00     99.00
10  7 12 11     15.0 1     0.0      0.00     27.10     99.00     99.00
10  7 12 12     15.0 1     0.0      0.00     28.60     99.00     99.00
10  7 12 13     15.0 1     0.0      0.00     29.90     99.00     99.00
10  7 12 14     15.0 1   337.0      0.50     31.00     99.00     99.00
10  7 12 15     15.0 1   351.0      1.00     31.80     99.00     99.00
10  7 12 16     15.0 1   346.0      1.50     32.30     99.00     99.00
10  7 12 17     15.0 1   319.0      2.60     32.10     99.00     99.00
10  7 12 18     15.0 1   293.0      4.10     30.30     99.00     99.00
10  7 12 19     15.0 1   280.0      5.10     25.60     99.00     99.00
10  7 12 20     15.0 1   284.0      4.60     22.60     99.00     99.00
10  7 12 21     15.0 1   278.0      4.60     20.90     99.00     99.00
10  7 12 22     15.0 1   293.0      4.10     19.80     99.00     99.00
10  7 12 23     15.0 1   322.0      2.60     19.10     99.00     99.00
10  7 12 24     15.0 1    15.0      2.60     18.60     99.00     99.00
10  7 13  1     15.0 1    19.0      2.60     18.10     99.00     99.00
10  7 13  2     15.0 1    19.0      2.10     17.60     99.00     99.00
10  7 13  3     15.0 1     8.0      1.50     17.10     99.00     99.00
10  7 13  4     15.0 1     0.0      0.00     16.80     99.00     99.00
10  7 13  5     15.0 1   339.0      0.50     16.40     99.00     99.00
10  7 13  6     15.0 1   288.0      1.50     16.60     99.00     99.00
10  7 13  7     15.0 1   280.0      1.50     18.10     99.00     99.00
10  7 13  8     15.0 1     0.0      0.00     20.10     99.00     99.00
10  7 13  9     15.0 1     0.0      0.00     22.00     99.00     99.00
10  7 13 10     15.0 1     0.0      0.00     23.90     99.00     99.00
10  7 13 11     15.0 1     0.0      0.00     25.80     99.00     99.00
10  7 13 12     15.0 1     0.0      0.00     27.50     99.00     99.00
10  7 13 13     15.0 1     0.0      0.00     29.00     99.00     99.00
10  7 13 14     15.0 1   332.0      0.50     30.10     99.00     99.00
10  7 13 15     15.0 1   357.0      1.00     30.80     99.00     99.00
10  7 13 16     15.0 1     7.0      1.50     31.10     99.00     99.00
10  7 13 17     15.0 1    24.0      2.10     31.10     99.00     99.00
10  7 13 18     15.0 1    17.0      2.10     30.90     99.00     99.00
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10  7 13 19     15.0 1   342.0      2.60     30.30     99.00     99.00
10  7 13 20     15.0 1   290.0      5.10     26.90     99.00     99.00
10  7 13 21     15.0 1   278.0      5.10     22.60     99.00     99.00
10  7 13 22     15.0 1   279.0      4.60     21.10     99.00     99.00
10  7 13 23     15.0 1   277.0      4.10     20.10     99.00     99.00
10  7 13 24     15.0 1   288.0      3.10     19.50     99.00     99.00
10  7 14  1     15.0 1   328.0      2.10     19.10     99.00     99.00
10  7 14  2     15.0 1     0.0      0.00     18.90     99.00     99.00
10  7 14  3     15.0 1   354.0      1.50     18.50     99.00     99.00
10  7 14  4     15.0 1   321.0      1.50     18.30     99.00     99.00
10  7 14  5     15.0 1   308.0      1.50     18.10     99.00     99.00
10  7 14  6     15.0 1   313.0      1.50     18.30     99.00     99.00
10  7 14  7     15.0 1   332.0      1.00     19.60     99.00     99.00
10  7 14  8     15.0 1     0.0      0.00     21.30     99.00     99.00
10  7 14  9     15.0 1     0.0      0.00     22.90     99.00     99.00
10  7 14 10     15.0 1     0.0      0.00     24.90     99.00     99.00
10  7 14 11     15.0 1     0.0      0.00     26.80     99.00     99.00
10  7 14 12     15.0 1     0.0      0.00     28.40     99.00     99.00
10  7 14 13     15.0 1     0.0      0.00     29.80     99.00     99.00
10  7 14 14     15.0 1   340.0      0.50     31.00     99.00     99.00
10  7 14 15     15.0 1     0.0      0.00     31.90     99.00     99.00
10  7 14 16     15.0 1     6.0      2.60     32.60     99.00     99.00
10  7 14 17     15.0 1    18.0      2.60     32.40     99.00     99.00
10  7 14 18     15.0 1     7.0      2.10     32.10     99.00     99.00
10  7 14 19     15.0 1     5.0      2.10     31.40     99.00     99.00
10  7 14 20     15.0 1   301.0      3.10     30.40     99.00     99.00
10  7 14 21     15.0 1   285.0      5.10     26.50     99.00     99.00
10  7 14 22     15.0 1   276.0      4.60     23.80     99.00     99.00
10  7 14 23     15.0 1   286.0      3.60     22.90     99.00     99.00
10  7 14 24     15.0 1   310.0      3.10     22.50     99.00     99.00
10  7 15  1     15.0 1   330.0      3.10     22.10     99.00     99.00
10  7 15  2     15.0 1   344.0      3.10     22.00     99.00     99.00
10  7 15  3     15.0 1   348.0      2.60     21.60     99.00     99.00
10  7 15  4     15.0 1     0.0      0.00     21.10     99.00     99.00
10  7 15  5     15.0 1     4.0      1.50     20.60     99.00     99.00
10  7 15  6     15.0 1   348.0      1.50     20.50     99.00     99.00
10  7 15  7     15.0 1   354.0      1.50     21.30     99.00     99.00
10  7 15  8     15.0 1     0.0      0.00     23.10     99.00     99.00
10  7 15  9     15.0 1     0.0      0.00     25.30     99.00     99.00
10  7 15 10     15.0 1     0.0      0.00     27.10     99.00     99.00
10  7 15 11     15.0 1     0.0      0.00     29.10     99.00     99.00
10  7 15 12     15.0 1     0.0      0.00     31.10     99.00     99.00
10  7 15 13     15.0 1     0.0      0.00     32.60     99.00     99.00
10  7 15 14     15.0 1   343.0      0.50     33.90     99.00     99.00
10  7 15 15     15.0 1     8.0      1.50     34.60     99.00     99.00
10  7 15 16     15.0 1    18.0      2.60     34.80     99.00     99.00
10  7 15 17     15.0 1    28.0      2.60     34.40     99.00     99.00
10  7 15 18     15.0 1    21.0      2.10     34.00     99.00     99.00
10  7 15 19     15.0 1   342.0      1.50     33.30     99.00     99.00
10  7 15 20     15.0 1   294.0      5.10     31.60     99.00     99.00
10  7 15 21     15.0 1   269.0      5.70     26.80     99.00     99.00
10  7 15 22     15.0 1   273.0      4.60     25.10     99.00     99.00
10  7 15 23     15.0 1   272.0      3.10     24.50     99.00     99.00
10  7 15 24     15.0 1   306.0      2.10     24.40     99.00     99.00
10  7 16  1     15.0 1   336.0      2.60     24.00     99.00     99.00
10  7 16  2     15.0 1   350.0      2.10     23.60     99.00     99.00
10  7 16  3     15.0 1   310.0      3.10     23.40     99.00     99.00
10  7 16  4     15.0 1   306.0      2.10     23.10     99.00     99.00
10  7 16  5     15.0 1   334.0      1.50     23.10     99.00     99.00
10  7 16  6     15.0 1   310.0      1.50     23.10     99.00     99.00
10  7 16  7     15.0 1   295.0      1.50     23.30     99.00     99.00
10  7 16  8     15.0 1   280.0      2.10     24.10     99.00     99.00
10  7 16  9     15.0 1   244.0      0.50     25.40     99.00     99.00
10  7 16 10     15.0 1   147.0      0.50     27.10     99.00     99.00
10  7 16 11     15.0 1     0.0      0.00     28.90     99.00     99.00
10  7 16 12     15.0 1     0.0      0.00     30.40     99.00     99.00
10  7 16 13     15.0 1    19.0      0.50     31.60     99.00     99.00
10  7 16 14     15.0 1    34.0      1.00     32.60     99.00     99.00
10  7 16 15     15.0 1    34.0      1.50     33.10     99.00     99.00
10  7 16 16     15.0 1    42.0      2.10     33.40     99.00     99.00
10  7 16 17     15.0 1    53.0      2.10     33.40     99.00     99.00
10  7 16 18     15.0 1    51.0      2.60     33.10     99.00     99.00
10  7 16 19     15.0 1    38.0      2.10     32.40     99.00     99.00
10  7 16 20     15.0 1   306.0      2.10     31.30     99.00     99.00
10  7 16 21     15.0 1   276.0      5.10     28.30     99.00     99.00
10  7 16 22     15.0 1   269.0      4.60     25.10     99.00     99.00
10  7 16 23     15.0 1   285.0      3.60     24.10     99.00     99.00
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10  7 16 24    15.0 1   287.0     3.10    23.60    99.00    99.00
10  7 17  1    15.0 1   296.0     2.60    23.40    99.00    99.00
10  7 17  2    15.0 1   298.0     3.10    23.10    99.00    99.00
10  7 17  3    15.0 1   300.0     3.60    22.50    99.00    99.00
10  7 17  4    15.0 1   309.0     3.10    21.90    99.00    99.00
10  7 17  5    15.0 1   321.0     2.60    21.40    99.00    99.00
10  7 17  6    15.0 1   333.0     2.10    21.30    99.00    99.00
10  7 17  7    15.0 1   355.0     1.50    22.10    99.00    99.00
10  7 17  8    15.0 1     0.0     0.00    24.00    99.00    99.00
10  7 17  9    15.0 1     0.0     0.00    26.10    99.00    99.00
10  7 17 10    15.0 1     0.0     0.00    28.00    99.00    99.00
10  7 17 11    15.0 1     0.0     0.00    29.60    99.00    99.00
10  7 17 12    15.0 1     0.0     0.00    31.30    99.00    99.00
10  7 17 13    15.0 1     0.0     0.00    32.90    99.00    99.00
10  7 17 14    15.0 1     0.0     0.00    34.10    99.00    99.00
10  7 17 15    15.0 1     6.0     0.50    34.60    99.00    99.00
10  7 17 16    15.0 1    17.0     1.00    35.10    99.00    99.00
10  7 17 17    15.0 1    26.0     2.10    34.90    99.00    99.00
10  7 17 18    15.0 1    16.0     1.50    34.60    99.00    99.00
10  7 17 19    15.0 1   345.0     2.10    33.80    99.00    99.00
10  7 17 20    15.0 1   292.0     5.10    31.50    99.00    99.00
10  7 17 21    15.0 1   282.0     4.60    26.90    99.00    99.00
10  7 17 22    15.0 1   270.0     4.10    24.90    99.00    99.00
10  7 17 23    15.0 1   278.0     3.60    23.90    99.00    99.00
10  7 17 24    15.0 1   283.0     3.10    23.30    99.00    99.00
10  7 18  1    15.0 1   303.0     2.60    22.80    99.00    99.00
10  7 18  2    15.0 1   332.0     1.50    22.40    99.00    99.00
10  7 18  3    15.0 1   352.0     1.00    22.00    99.00    99.00
10  7 18  4    15.0 1   311.0     1.00    21.60    99.00    99.00
10  7 18  5    15.0 1   294.0     1.50    21.40    99.00    99.00
10  7 18  6    15.0 1   287.0     1.50    21.10    99.00    99.00
10  7 18  7    15.0 1   306.0     1.50    22.50    99.00    99.00
10  7 18  8    15.0 1     0.0     0.00    24.30    99.00    99.00
10  7 18  9    15.0 1     0.0     0.00    26.60    99.00    99.00
10  7 18 10    15.0 1     0.0     0.00    28.50    99.00    99.00
10  7 18 11    15.0 1     0.0     0.00    30.30    99.00    99.00
10  7 18 12    15.0 1     0.0     0.00    31.90    99.00    99.00
10  7 18 13    15.0 1     0.0     0.00    33.40    99.00    99.00
10  7 18 14    15.0 1     0.0     0.00    34.40    99.00    99.00
10  7 18 15    15.0 1     0.0     0.00    35.00    99.00    99.00
10  7 18 16    15.0 1    23.0     1.50    35.10    99.00    99.00
10  7 18 17    15.0 1    12.0     1.00    35.00    99.00    99.00
10  7 18 18    15.0 1   304.0     3.10    34.30    99.00    99.00
10  7 18 19    15.0 1   284.0     5.10    30.30    99.00    99.00
10  7 18 20    15.0 1   274.0     5.10    26.90    99.00    99.00
10  7 18 21    15.0 1   271.0     4.60    25.10    99.00    99.00
10  7 18 22    15.0 1   275.0     3.60    24.10    99.00    99.00
10  7 18 23    15.0 1   287.0     2.60    23.60    99.00    99.00
10  7 18 24    15.0 1   307.0     2.10    23.10    99.00    99.00
10  7 19  1    15.0 1   324.0     1.50    22.90    99.00    99.00
10  7 19  2    15.0 1   335.0     1.50    22.80    99.00    99.00
10  7 19  3    15.0 1   308.0     1.50    22.80    99.00    99.00
10  7 19  4    15.0 1   307.0     1.50    22.60    99.00    99.00
10  7 19  5    15.0 1   315.0     3.10    22.40    99.00    99.00
10  7 19  6    15.0 1   303.0     3.10    21.90    99.00    99.00
10  7 19  7    15.0 1   322.0     2.10    22.50    99.00    99.00
10  7 19  8    15.0 1     0.0     0.00    23.60    99.00    99.00
10  7 19  9    15.0 1     0.0     0.00    25.30    99.00    99.00
10  7 19 10    15.0 1     0.0     0.00    26.80    99.00    99.00
10  7 19 11    15.0 1     0.0     0.00    28.40    99.00    99.00
10  7 19 12    15.0 1     0.0     0.00    29.90    99.00    99.00
10  7 19 13    15.0 1   256.0     0.50    31.30    99.00    99.00
10  7 19 14    15.0 1   290.0     0.50    32.30    99.00    99.00
10  7 19 15    15.0 1   335.0     1.00    32.90    99.00    99.00
10  7 19 16    15.0 1    11.0     2.10    34.10    99.00    99.00
10  7 19 17    15.0 1    18.0     2.10    33.80    99.00    99.00
10  7 19 18    15.0 1    11.0     2.10    33.60    99.00    99.00
10  7 19 19    15.0 1   298.0     3.60    32.80    99.00    99.00
10  7 19 20    15.0 1   267.0     5.10    27.90    99.00    99.00
10  7 19 21    15.0 1   270.0     5.10    24.60    99.00    99.00
10  7 19 22    15.0 1   256.0     4.60    23.30    99.00    99.00
10  7 19 23    15.0 1   274.0     4.10    22.10    99.00    99.00
10  7 19 24    15.0 1   294.0     3.60    21.50    99.00    99.00
10  7 20  1    15.0 1   311.0     2.60    21.40    99.00    99.00
10  7 20  2    15.0 1   328.0     2.10    21.40    99.00    99.00
10  7 20  3    15.0 1   330.0     1.50    21.10    99.00    99.00
10  7 20  4    15.0 1   322.0     1.50    20.60    99.00    99.00
```

```
10  7 20  5    15.0 1   335.0     1.50    20.10    99.00    99.00
10  7 20  6    15.0 1   330.0     1.50    19.90    99.00    99.00
10  7 20  7    15.0 1   343.0     1.50    20.90    99.00    99.00
10  7 20  8    15.0 1     0.0     0.00    22.60    99.00    99.00
10  7 20  9    15.0 1     0.0     0.00    24.10    99.00    99.00
10  7 20 10    15.0 1     0.0     0.00    26.10    99.00    99.00
10  7 20 11    15.0 1     0.0     0.00    27.90    99.00    99.00
10  7 20 12    15.0 1     0.0     0.00    29.60    99.00    99.00
10  7 20 13    15.0 1   308.0     0.50    31.10    99.00    99.00
10  7 20 14    15.0 1   331.0     0.50    32.10    99.00    99.00
10  7 20 15    15.0 1   336.0     1.00    32.90    99.00    99.00
10  7 20 16    15.0 1   342.0     1.50    33.30    99.00    99.00
10  7 20 17    15.0 1   327.0     2.10    32.90    99.00    99.00
10  7 20 18    15.0 1   304.0     4.10    31.60    99.00    99.00
10  7 20 19    15.0 1   283.0     5.10    27.10    99.00    99.00
10  7 20 20    15.0 1   274.0     5.10    23.60    99.00    99.00
10  7 20 21    15.0 1   285.0     5.10    21.60    99.00    99.00
10  7 20 22    15.0 1   281.0     4.10    20.10    99.00    99.00
10  7 20 23    15.0 1   295.0     3.10    19.50    99.00    99.00
10  7 20 24    15.0 1   314.0     2.60    18.90    99.00    99.00
10  7 21  1    15.0 1   318.0     2.60    18.10    99.00    99.00
10  7 21  2    15.0 1   337.0     3.10    17.60    99.00    99.00
10  7 21  3    15.0 1   353.0     3.10    17.10    99.00    99.00
10  7 21  4    15.0 1   342.0     3.10    16.60    99.00    99.00
10  7 21  5    15.0 1   335.0     3.10    16.40    99.00    99.00
10  7 21  6    15.0 1   324.0     2.60    16.60    99.00    99.00
10  7 21  7    15.0 1   313.0     2.60    18.60    99.00    99.00
10  7 21  8    15.0 1   313.0     1.00    20.60    99.00    99.00
10  7 21  9    15.0 1     0.0     0.00    22.60    99.00    99.00
10  7 21 10    15.0 1     0.0     0.00    24.60    99.00    99.00
10  7 21 11    15.0 1     0.0     0.00    26.60    99.00    99.00
10  7 21 12    15.0 1     0.0     0.00    28.30    99.00    99.00
10  7 21 13    15.0 1   318.0     0.50    29.60    99.00    99.00
10  7 21 14    15.0 1   345.0     0.50    30.60    99.00    99.00
10  7 21 15    15.0 1   345.0     1.00    31.30    99.00    99.00
10  7 21 16    15.0 1   355.0     1.50    31.60    99.00    99.00
10  7 21 17    15.0 1   346.0     2.10    31.50    99.00    99.00
10  7 21 18    15.0 1   341.0     2.10    31.10    99.00    99.00
10  7 21 19    15.0 1   298.0     3.60    29.80    99.00    99.00
10  7 21 20    15.0 1   269.0     5.10    25.50    99.00    99.00
10  7 21 21    15.0 1   266.0     5.10    22.60    99.00    99.00
10  7 21 22    15.0 1   275.0     4.10    21.50    99.00    99.00
10  7 21 23    15.0 1   278.0     3.60    20.60    99.00    99.00
10  7 21 24    15.0 1   297.0     2.60    20.00    99.00    99.00
10  7 22  1    15.0 1   319.0     2.10    19.40    99.00    99.00
10  7 22  2    15.0 1   319.0     2.60    18.60    99.00    99.00
10  7 22  3    15.0 1   316.0     3.10    18.10    99.00    99.00
10  7 22  4    15.0 1   307.0     3.10    17.60    99.00    99.00
10  7 22  5    15.0 1   310.0     3.10    17.40    99.00    99.00
10  7 22  6    15.0 1   309.0     2.60    17.60    99.00    99.00
10  7 22  7    15.0 1   316.0     2.60    19.50    99.00    99.00
10  7 22  8    15.0 1   320.0     1.00    21.10    99.00    99.00
10  7 22  9    15.0 1     0.0     0.00    22.80    99.00    99.00
10  7 22 10    15.0 1     0.0     0.00    25.00    99.00    99.00
10  7 22 11    15.0 1     0.0     0.00    27.10    99.00    99.00
10  7 22 12    15.0 1     0.0     0.00    28.90    99.00    99.00
10  7 22 13    15.0 1   270.0     0.50    30.40    99.00    99.00
10  7 22 14    15.0 1   295.0     0.50    31.50    99.00    99.00
10  7 22 15    15.0 1   302.0     0.50    32.10    99.00    99.00
10  7 22 16    15.0 1   309.0     1.00    32.60    99.00    99.00
10  7 22 17    15.0 1   332.0     2.10    32.50    99.00    99.00
10  7 22 18    15.0 1   333.0     2.60    32.00    99.00    99.00
10  7 22 19    15.0 1   307.0     4.60    29.30    99.00    99.00
10  7 22 20    15.0 1   290.0     4.60    24.80    99.00    99.00
10  7 22 21    15.0 1   279.0     4.60    22.10    99.00    99.00
10  7 22 22    15.0 1   295.0     4.10    20.60    99.00    99.00
10  7 22 23    15.0 1   292.0     3.60    19.80    99.00    99.00
10  7 22 24    15.0 1   315.0     3.10    19.00    99.00    99.00
10  7 23  1    15.0 1   339.0     3.10    18.50    99.00    99.00
10  7 23  2    15.0 1     9.0     3.60    18.00    99.00    99.00
10  7 23  3    15.0 1    18.0     3.10    17.60    99.00    99.00
10  7 23  4    15.0 1    17.0     2.10    17.40    99.00    99.00
10  7 23  5    15.0 1    24.0     1.00    17.10    99.00    99.00
10  7 23  6    15.0 1    38.0     0.50    17.10    99.00    99.00
10  7 23  7    15.0 1   335.0     1.00    19.30    99.00    99.00
10  7 23  8    15.0 1     0.0     0.00    21.10    99.00    99.00
10  7 23  9    15.0 1     0.0     0.00    23.40    99.00    99.00
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10  7 23 10    15.0 1     0.0     0.00    25.10    99.00    99.00
10  7 23 11    15.0 1     0.0     0.00    27.30    99.00    99.00
10  7 23 12    15.0 1     0.0     0.00    29.40    99.00    99.00
10  7 23 13    15.0 1   325.0     0.50    31.10    99.00    99.00
10  7 23 14    15.0 1   345.0     1.00    32.30    99.00    99.00
10  7 23 15    15.0 1   354.0     1.50    33.10    99.00    99.00
10  7 23 16    15.0 1     0.0     0.00    33.40    99.00    99.00
10  7 23 17    15.0 1    11.0     2.10    33.00    99.00    99.00
10  7 23 18    15.0 1   355.0     3.10    32.60    99.00    99.00
10  7 23 19    15.0 1   309.0     5.10    29.80    99.00    99.00
10  7 23 20    15.0 1   289.0     5.70    25.10    99.00    99.00
10  7 23 21    15.0 1   289.0     4.60    22.80    99.00    99.00
10  7 23 22    15.0 1   299.0     4.10    21.50    99.00    99.00
10  7 23 23    15.0 1   323.0     3.60    20.60    99.00    99.00
10  7 23 24    15.0 1   340.0     3.60    19.80    99.00    99.00
10  7 24  1    15.0 1   355.0     3.60    19.10    99.00    99.00
10  7 24  2    15.0 1     0.0     0.00    18.60    99.00    99.00
10  7 24  3    15.0 1     0.0     0.00    18.60    99.00    99.00
10  7 24  4    15.0 1     0.0     0.00    18.50    99.00    99.00
10  7 24  5    15.0 1     0.0     0.00    18.30    99.00    99.00
10  7 24  6    15.0 1   355.0     0.50    18.10    99.00    99.00
10  7 24  7    15.0 1     0.0     0.00    19.50    99.00    99.00
10  7 24  8    15.0 1     0.0     0.00    21.10    99.00    99.00
10  7 24  9    15.0 1     0.0     0.00    23.50    99.00    99.00
10  7 24 10    15.0 1     0.0     0.00    25.30    99.00    99.00
10  7 24 11    15.0 1     0.0     0.00    27.40    99.00    99.00
10  7 24 12    15.0 1     0.0     0.00    29.50    99.00    99.00
10  7 24 13    15.0 1   321.0     0.50    31.10    99.00    99.00
10  7 24 14    15.0 1   336.0     1.00    32.10    99.00    99.00
10  7 24 15    15.0 1   356.0     2.10    32.80    99.00    99.00
10  7 24 16    15.0 1     8.0     2.60    33.10    99.00    99.00
10  7 24 17    15.0 1    10.0     2.10    32.90    99.00    99.00
10  7 24 18    15.0 1   296.0     3.60    32.30    99.00    99.00
10  7 24 19    15.0 1   283.0     5.10    27.30    99.00    99.00
10  7 24 20    15.0 1   278.0     5.10    23.80    99.00    99.00
10  7 24 21    15.0 1   285.0     4.60    21.60    99.00    99.00
10  7 24 22    15.0 1   294.0     3.10    20.50    99.00    99.00
10  7 24 23    15.0 1   320.0     2.60    19.90    99.00    99.00
10  7 24 24    15.0 1   349.0     3.10    19.10    99.00    99.00
10  7 25  1    15.0 1   349.0     2.60    18.50    99.00    99.00
10  7 25  2    15.0 1   338.0     1.50    18.10    99.00    99.00
10  7 25  3    15.0 1   339.0     1.00    17.80    99.00    99.00
10  7 25  4    15.0 1   333.0     1.00    17.60    99.00    99.00
10  7 25  5    15.0 1   325.0     1.00    17.40    99.00    99.00
10  7 25  6    15.0 1   324.0     0.50    17.30    99.00    99.00
10  7 25  7    15.0 1   329.0     1.00    18.60    99.00    99.00
10  7 25  8    15.0 1     0.0     0.00    19.60    99.00    99.00
10  7 25  9    15.0 1     0.0     0.00    21.60    99.00    99.00
10  7 25 10    15.0 1     0.0     0.00    23.80    99.00    99.00
10  7 25 11    15.0 1     0.0     0.00    25.80    99.00    99.00
10  7 25 12    15.0 1     0.0     0.00    27.60    99.00    99.00
10  7 25 13    15.0 1   346.0     0.50    29.40    99.00    99.00
10  7 25 14    15.0 1   346.0     1.00    30.60    99.00    99.00
10  7 25 15    15.0 1   353.0     2.10    31.50    99.00    99.00
10  7 25 16    15.0 1   343.0     2.60    31.90    99.00    99.00
10  7 25 17    15.0 1   302.0     3.10    30.90    99.00    99.00
10  7 25 18    15.0 1   279.0     5.10    27.60    99.00    99.00
10  7 25 19    15.0 1   283.0     5.10    23.60    99.00    99.00
10  7 25 20    15.0 1   276.0     4.60    21.40    99.00    99.00
10  7 25 21    15.0 1   292.0     4.10    19.60    99.00    99.00
10  7 25 22    15.0 1   298.0     2.60    18.60    99.00    99.00
10  7 25 23    15.0 1   321.0     2.60    18.10    99.00    99.00
10  7 25 24    15.0 1   355.0     3.10    17.40    99.00    99.00
10  7 26  1    15.0 1   360.0     3.10    16.60    99.00    99.00
10  7 26  2    15.0 1   355.0     3.10    15.80    99.00    99.00
10  7 26  3    15.0 1   333.0     3.10    15.10    99.00    99.00
10  7 26  4    15.0 1   306.0     3.10    14.60    99.00    99.00
10  7 26  5    15.0 1   308.0     3.10    14.30    99.00    99.00
10  7 26  6    15.0 1   316.0     2.60    14.40    99.00    99.00
10  7 26  7    15.0 1   307.0     2.60    16.10    99.00    99.00
10  7 26  8    15.0 1   319.0     0.50    18.10    99.00    99.00
10  7 26  9    15.0 1     0.0     0.00    20.30    99.00    99.00
10  7 26 10    15.0 1     0.0     0.00    22.10    99.00    99.00
10  7 26 11    15.0 1     0.0     0.00    24.50    99.00    99.00
10  7 26 12    15.0 1     0.0     0.00    26.50    99.00    99.00
10  7 26 13    15.0 1     0.0     0.00    28.10    99.00    99.00
10  7 26 14    15.0 1   298.0     0.50    29.30    99.00    99.00
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10  7 26 15    15.0 1   333.0     1.00    30.10    99.00    99.00
10  7 26 16    15.0 1   339.0     2.10    30.50    99.00    99.00
10  7 26 17    15.0 1   354.0     2.10    30.30    99.00    99.00
10  7 26 18    15.0 1   324.0     3.10    29.60    99.00    99.00
10  7 26 19    15.0 1   293.0     5.10    25.60    99.00    99.00
10  7 26 20    15.0 1   278.0     5.70    21.40    99.00    99.00
10  7 26 21    15.0 1   279.0     4.60    19.40    99.00    99.00
10  7 26 22    15.0 1   290.0     4.10    18.10    99.00    99.00
10  7 26 23    15.0 1   299.0     3.10    17.30    99.00    99.00
10  7 26 24    15.0 1   327.0     3.10    16.60    99.00    99.00
10  7 27  1    15.0 1   350.0     3.60    15.90    99.00    99.00
10  7 27  2    15.0 1   350.0     3.10    15.40    99.00    99.00
10  7 27  3    15.0 1   346.0     3.10    15.10    99.00    99.00
10  7 27  4    15.0 1   347.0     3.10    14.80    99.00    99.00
10  7 27  5    15.0 1   350.0     2.60    14.60    99.00    99.00
10  7 27  6    15.0 1     0.0     0.00    14.60    99.00    99.00
10  7 27  7    15.0 1   345.0     1.50    16.60    99.00    99.00
10  7 27  8    15.0 1     0.0     0.00    18.60    99.00    99.00
10  7 27  9    15.0 1     0.0     0.00    20.50    99.00    99.00
10  7 27 10    15.0 1     0.0     0.00    22.40    99.00    99.00
10  7 27 11    15.0 1     0.0     0.00    24.80    99.00    99.00
10  7 27 12    15.0 1     0.0     0.00    27.10    99.00    99.00
10  7 27 13    15.0 1   315.0     0.50    28.60    99.00    99.00
10  7 27 14    15.0 1   324.0     1.50    29.90    99.00    99.00
10  7 27 15    15.0 1   330.0     2.10    30.80    99.00    99.00
10  7 27 16    15.0 1   321.0     3.10    31.10    99.00    99.00
10  7 27 17    15.0 1   299.0     3.60    29.60    99.00    99.00
10  7 27 18    15.0 1   293.0     4.60    26.60    99.00    99.00
10  7 27 19    15.0 1   289.0     4.60    23.50    99.00    99.00
10  7 27 20    15.0 1   284.0     4.60    20.80    99.00    99.00
10  7 27 21    15.0 1   276.0     4.60    18.80    99.00    99.00
10  7 27 22    15.0 1   288.0     3.60    17.60    99.00    99.00
10  7 27 23    15.0 1   334.0     2.60    17.00    99.00    99.00
10  7 27 24    15.0 1   357.0     3.60    16.40    99.00    99.00
10  7 28  1    15.0 1   356.0     3.60    15.50    99.00    99.00
10  7 28  2    15.0 1   350.0     3.60    14.80    99.00    99.00
10  7 28  3    15.0 1   350.0     2.60    14.50    99.00    99.00
10  7 28  4    15.0 1   347.0     2.60    14.30    99.00    99.00
10  7 28  5    15.0 1   360.0     2.10    14.10    99.00    99.00
10  7 28  6    15.0 1    11.0     1.00    14.10    99.00    99.00
10  7 28  7    15.0 1   340.0     1.00    16.00    99.00    99.00
10  7 28  8    15.0 1     0.0     0.00    18.00    99.00    99.00
10  7 28  9    15.0 1     0.0     0.00    20.10    99.00    99.00
10  7 28 10    15.0 1     0.0     0.00    22.00    99.00    99.00
10  7 28 11    15.0 1     0.0     0.00    24.30    99.00    99.00
10  7 28 12    15.0 1     0.0     0.00    26.40    99.00    99.00
10  7 28 13    15.0 1   322.0     0.50    28.00    99.00    99.00
10  7 28 14    15.0 1   327.0     1.00    29.00    99.00    99.00
10  7 28 15    15.0 1   341.0     2.10    29.60    99.00    99.00
10  7 28 16    15.0 1   349.0     2.60    30.00    99.00    99.00
10  7 28 17    15.0 1     0.0     0.00    29.50    99.00    99.00
10  7 28 18    15.0 1     9.0     3.10    28.80    99.00    99.00
10  7 28 19    15.0 1   326.0     3.60    27.80    99.00    99.00
10  7 28 20    15.0 1   285.0     5.10    23.40    99.00    99.00
10  7 28 21    15.0 1   267.0     5.10    20.10    99.00    99.00
10  7 28 22    15.0 1   280.0     4.60    18.80    99.00    99.00
10  7 28 23    15.0 1   292.0     4.10    17.60    99.00    99.00
10  7 28 24    15.0 1   300.0     3.60    16.90    99.00    99.00
10  7 29  1    15.0 1   324.0     2.60    16.30    99.00    99.00
10  7 29  2    15.0 1   332.0     2.60    16.00    99.00    99.00
10  7 29  3    15.0 1   341.0     2.10    15.90    99.00    99.00
10  7 29  4    15.0 1   346.0     1.50    15.80    99.00    99.00
10  7 29  5    15.0 1    17.0     0.50    15.60    99.00    99.00
10  7 29  6    15.0 1     0.0     0.00    15.40    99.00    99.00
10  7 29  7    15.0 1    26.0     0.50    16.90    99.00    99.00
10  7 29  8    15.0 1     0.0     0.00    18.90    99.00    99.00
10  7 29  9    15.0 1     0.0     0.00    20.60    99.00    99.00
10  7 29 10    15.0 1     0.0     0.00    22.60    99.00    99.00
10  7 29 11    15.0 1     0.0     0.00    25.00    99.00    99.00
10  7 29 12    15.0 1     0.0     0.00    26.90    99.00    99.00
10  7 29 13    15.0 1   329.0     0.50    28.30    99.00    99.00
10  7 29 14    15.0 1   342.0     1.00    29.50    99.00    99.00
10  7 29 15    15.0 1   348.0     1.50    30.10    99.00    99.00
10  7 29 16    15.0 1   360.0     2.60    30.60    99.00    99.00
10  7 29 17    15.0 1    12.0     2.60    30.10    99.00    99.00
10  7 29 18    15.0 1    12.0     3.10    29.50    99.00    99.00
10  7 29 19    15.0 1   341.0     3.10    28.60    99.00    99.00
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10  7 29 20    15.0 1   279.0     5.10    25.40    99.00    99.00
10  7 29 21    15.0 1   268.0     5.10    21.60    99.00    99.00
10  7 29 22    15.0 1   270.0     4.10    20.30    99.00    99.00
10  7 29 23    15.0 1   285.0     3.10    19.40    99.00    99.00
10  7 29 24    15.0 1   300.0     2.60    18.90    99.00    99.00
10  7 30  1    15.0 1   312.0     2.60    18.80    99.00    99.00
10  7 30  2    15.0 1   318.0     2.10    18.50    99.00    99.00
10  7 30  3    15.0 1   328.0     2.10    18.10    99.00    99.00
10  7 30  4    15.0 1   336.0     1.50    17.60    99.00    99.00
10  7 30  5    15.0 1   352.0     1.00    17.10    99.00    99.00
10  7 30  6    15.0 1   354.0     1.00    16.90    99.00    99.00
10  7 30  7    15.0 1     8.0     1.50    18.10    99.00    99.00
10  7 30  8    15.0 1     0.0     0.00    20.10    99.00    99.00
10  7 30  9    15.0 1     0.0     0.00    21.90    99.00    99.00
10  7 30 10    15.0 1     0.0     0.00    24.00    99.00    99.00
10  7 30 11    15.0 1     0.0     0.00    26.00    99.00    99.00
10  7 30 12    15.0 1     0.0     0.00    27.60    99.00    99.00
10  7 30 13    15.0 1     0.0     0.00    29.10    99.00    99.00
10  7 30 14    15.0 1   325.0     0.50    30.30    99.00    99.00
10  7 30 15    15.0 1   341.0     1.50    31.10    99.00    99.00
10  7 30 16    15.0 1     2.0     2.10    31.40    99.00    99.00
10  7 30 17    15.0 1     9.0     2.60    31.00    99.00    99.00
10  7 30 18    15.0 1    24.0     2.60    30.50    99.00    99.00
10  7 30 19    15.0 1   334.0     3.10    29.60    99.00    99.00
10  7 30 20    15.0 1   280.0     5.10    25.60    99.00    99.00
10  7 30 21    15.0 1   271.0     5.10    22.30    99.00    99.00
10  7 30 22    15.0 1   266.0     4.10    21.10    99.00    99.00
10  7 30 23    15.0 1   277.0     3.60    20.10    99.00    99.00
10  7 30 24    15.0 1   304.0     3.10    19.60    99.00    99.00
10  7 31  1    15.0 1   319.0     2.60    19.10    99.00    99.00
10  7 31  2    15.0 1   333.0     2.10    19.00    99.00    99.00
10  7 31  3    15.0 1   318.0     2.10    18.60    99.00    99.00
10  7 31  4    15.0 1   332.0     1.50    18.40    99.00    99.00
10  7 31  5    15.0 1   330.0     1.50    18.00    99.00    99.00
10  7 31  6    15.0 1   352.0     1.00    17.80    99.00    99.00
10  7 31  7    15.0 1   355.0     1.50    19.10    99.00    99.00
10  7 31  8    15.0 1     0.0     0.00    20.90    99.00    99.00
10  7 31  9    15.0 1     0.0     0.00    22.60    99.00    99.00
10  7 31 10    15.0 1     0.0     0.00    24.50    99.00    99.00
10  7 31 11    15.0 1     0.0     0.00    26.10    99.00    99.00
10  7 31 12    15.0 1     0.0     0.00    27.80    99.00    99.00
10  7 31 13    15.0 1   332.0     0.50    29.30    99.00    99.00
10  7 31 14    15.0 1   354.0     1.00    30.40    99.00    99.00
10  7 31 15    15.0 1     0.0     0.00    31.10    99.00    99.00
10  7 31 16    15.0 1    14.0     2.10    31.40    99.00    99.00
10  7 31 17    15.0 1    25.0     2.60    31.10    99.00    99.00
10  7 31 18    15.0 1    15.0     2.10    31.10    99.00    99.00
10  7 31 19    15.0 1   296.0     3.60    29.80    99.00    99.00
10  7 31 20    15.0 1   266.0     5.10    24.80    99.00    99.00
10  7 31 21    15.0 1   268.0     4.60    22.10    99.00    99.00
10  7 31 22    15.0 1   267.0     4.10    21.10    99.00    99.00
10  7 31 23    15.0 1   277.0     3.10    20.30    99.00    99.00
10  7 31 24    15.0 1   298.0     2.60    19.60    99.00    99.00
10  8  1  1    15.0 1   309.0     2.10    19.30    99.00    99.00
10  8  1  2    15.0 1   330.0     1.50    19.00    99.00    99.00
10  8  1  3    15.0 1   319.0     1.50    18.60    99.00    99.00
10  8  1  4    15.0 1   310.0     2.10    18.50    99.00    99.00
10  8  1  5    15.0 1   307.0     2.10    18.30    99.00    99.00
10  8  1  6    15.0 1   311.0     2.10    18.10    99.00    99.00
10  8  1  7    15.0 1   319.0     1.50    18.60    99.00    99.00
10  8  1  8    15.0 1   337.0     0.50    20.30    99.00    99.00
10  8  1  9    15.0 1     0.0     0.00    22.10    99.00    99.00
10  8  1 10    15.0 1     0.0     0.00    24.00    99.00    99.00
10  8  1 11    15.0 1     0.0     0.00    25.60    99.00    99.00
10  8  1 12    15.0 1   315.0     0.50    27.10    99.00    99.00
10  8  1 13    15.0 1     0.0     0.00    28.60    99.00    99.00
10  8  1 14    15.0 1   336.0     0.50    29.60    99.00    99.00
10  8  1 15    15.0 1    10.0     1.00    30.10    99.00    99.00
10  8  1 16    15.0 1    18.0     2.10    30.10    99.00    99.00
10  8  1 17    15.0 1    38.0     2.60    29.90    99.00    99.00
10  8  1 18    15.0 1    44.0     3.10    29.00    99.00    99.00
10  8  1 19    15.0 1    36.0     2.10    28.10    99.00    99.00
10  8  1 20    15.0 1   289.0     3.60    26.80    99.00    99.00
10  8  1 21    15.0 1   276.0     5.10    22.90    99.00    99.00
10  8  1 22    15.0 1   277.0     4.60    21.00    99.00    99.00
10  8  1 23    15.0 1   278.0     3.60    20.00    99.00    99.00
10  8  1 24    15.0 1   289.0     3.10    19.10    99.00    99.00
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```
10  8  2  1    15.0 1   322.0     1.50    18.60    99.00    99.00
10  8  2  2    15.0 1     0.0     0.00    18.30    99.00    99.00
10  8  2  3    15.0 1     0.0     0.00    18.10    99.00    99.00
10  8  2  4    15.0 1   344.0     0.50    18.00    99.00    99.00
10  8  2  5    15.0 1   265.0     0.50    17.90    99.00    99.00
10  8  2  6    15.0 1     0.0     0.00    17.80    99.00    99.00
10  8  2  7    15.0 1   317.0     0.50    18.50    99.00    99.00
10  8  2  8    15.0 1     0.0     0.00    20.00    99.00    99.00
10  8  2  9    15.0 1     0.0     0.00    21.50    99.00    99.00
10  8  2 10    15.0 1     0.0     0.00    22.80    99.00    99.00
10  8  2 11    15.0 1     0.0     0.00    24.30    99.00    99.00
10  8  2 12    15.0 1     0.0     0.00    25.80    99.00    99.00
10  8  2 13    15.0 1     0.0     0.00    27.10    99.00    99.00
10  8  2 14    15.0 1     0.0     0.00    28.10    99.00    99.00
10  8  2 15    15.0 1     0.0     0.00    28.60    99.00    99.00
10  8  2 16    15.0 1    44.0     0.50    28.90    99.00    99.00
10  8  2 17    15.0 1    69.0     0.50    28.80    99.00    99.00
10  8  2 18    15.0 1    56.0     0.50    28.10    99.00    99.00
10  8  2 19    15.0 1     0.0     0.00    27.00    99.00    99.00
10  8  2 20    15.0 1   227.0     0.50    25.80    99.00    99.00
10  8  2 21    15.0 1   240.0     1.00    24.80    99.00    99.00
10  8  2 22    15.0 1   275.0     3.10    23.60    99.00    99.00
10  8  2 23    15.0 1   271.0     3.10    22.10    99.00    99.00
10  8  2 24    15.0 1   273.0     2.10    21.30    99.00    99.00
10  8  3  1    15.0 1   280.0     1.00    20.90    99.00    99.00
10  8  3  2    15.0 1   297.0     1.50    20.50    99.00    99.00
10  8  3  3    15.0 1   300.0     1.50    20.00    99.00    99.00
10  8  3  4    15.0 1   300.0     2.10    19.40    99.00    99.00
10  8  3  5    15.0 1   299.0     2.60    18.80    99.00    99.00
10  8  3  6    15.0 1   301.0     2.60    18.30    99.00    99.00
10  8  3  7    15.0 1   349.0     1.50    19.60    99.00    99.00
10  8  3  8    15.0 1     0.0     0.00    21.40    99.00    99.00
10  8  3  9    15.0 1     0.0     0.00    23.60    99.00    99.00
10  8  3 10    15.0 1     0.0     0.00    25.60    99.00    99.00
10  8  3 11    15.0 1   286.0     0.50    27.40    99.00    99.00
10  8  3 12    15.0 1   294.0     0.50    29.00    99.00    99.00
10  8  3 13    15.0 1     0.0     0.00    30.40    99.00    99.00
10  8  3 14    15.0 1   339.0     0.50    31.30    99.00    99.00
10  8  3 15    15.0 1   360.0     1.50    31.90    99.00    99.00
10  8  3 16    15.0 1     3.0     1.50    32.00    99.00    99.00
10  8  3 17    15.0 1    12.0     2.10    31.60    99.00    99.00
10  8  3 18    15.0 1    15.0     2.10    31.30    99.00    99.00
10  8  3 19    15.0 1    14.0     2.60    30.00    99.00    99.00
10  8  3 20    15.0 1   311.0     2.60    28.60    99.00    99.00
10  8  3 21    15.0 1   277.0     5.10    25.30    99.00    99.00
10  8  3 22    15.0 1   267.0     4.60    22.50    99.00    99.00
10  8  3 23    15.0 1   277.0     3.60    21.40    99.00    99.00
10  8  3 24    15.0 1   290.0     2.10    21.00    99.00    99.00
10  8  4  1    15.0 1   276.0     1.00    20.60    99.00    99.00
10  8  4  2    15.0 1   259.0     1.00    20.50    99.00    99.00
10  8  4  3    15.0 1   257.0     1.00    20.10    99.00    99.00
10  8  4  4    15.0 1   268.0     0.50    19.80    99.00    99.00
10  8  4  5    15.0 1   289.0     0.50    19.30    99.00    99.00
10  8  4  6    15.0 1   322.0     0.50    18.80    99.00    99.00
10  8  4  7    15.0 1     0.0     0.00    20.30    99.00    99.00
10  8  4  8    15.0 1     0.0     0.00    22.10    99.00    99.00
10  8  4  9    15.0 1     0.0     0.00    24.00    99.00    99.00
10  8  4 10    15.0 1     0.0     0.00    25.80    99.00    99.00
10  8  4 11    15.0 1     0.0     0.00    27.50    99.00    99.00
10  8  4 12    15.0 1     0.0     0.00    29.10    99.00    99.00
10  8  4 13    15.0 1     0.0     0.00    30.50    99.00    99.00
10  8  4 14    15.0 1   347.0     0.50    31.50    99.00    99.00
10  8  4 15    15.0 1     0.0     0.00    32.10    99.00    99.00
10  8  4 16    15.0 1     8.0     2.10    32.30    99.00    99.00
10  8  4 17    15.0 1    18.0     2.10    31.90    99.00    99.00
10  8  4 18    15.0 1    22.0     2.60    31.40    99.00    99.00
10  8  4 19    15.0 1   332.0     3.10    30.40    99.00    99.00
10  8  4 20    15.0 1   282.0     5.70    26.10    99.00    99.00
10  8  4 21    15.0 1   275.0     5.70    22.60    99.00    99.00
10  8  4 22    15.0 1   275.0     4.60    21.10    99.00    99.00
10  8  4 23    15.0 1   283.0     4.10    20.10    99.00    99.00
10  8  4 24    15.0 1   299.0     3.10    19.30    99.00    99.00
10  8  5  1    15.0 1   310.0     2.10    18.80    99.00    99.00
10  8  5  2    15.0 1   322.0     2.10    18.40    99.00    99.00
10  8  5  3    15.0 1   314.0     2.60    18.10    99.00    99.00
10  8  5  4    15.0 1   315.0     2.10    17.90    99.00    99.00
10  8  5  5    15.0 1   321.0     2.10    17.60    99.00    99.00
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10  8  5  6    15.0 1   335.0     1.50    17.40    99.00    99.00
10  8  5  7    15.0 1   346.0     1.50    18.30    99.00    99.00
10  8  5  8    15.0 1     0.0     0.00    20.00    99.00    99.00
10  8  5  9    15.0 1     0.0     0.00    21.60    99.00    99.00
10  8  5 10    15.0 1     0.0     0.00    23.60    99.00    99.00
10  8  5 11    15.0 1   321.0     0.50    25.30    99.00    99.00
10  8  5 12    15.0 1   318.0     0.50    27.00    99.00    99.00
10  8  5 13    15.0 1   323.0     0.50    28.50    99.00    99.00
10  8  5 14    15.0 1   332.0     1.00    29.60    99.00    99.00
10  8  5 15    15.0 1   342.0     1.50    30.40    99.00    99.00
10  8  5 16    15.0 1   350.0     2.60    30.60    99.00    99.00
10  8  5 17    15.0 1     6.0     2.60    30.30    99.00    99.00
10  8  5 18    15.0 1     1.0     2.60    30.00    99.00    99.00
10  8  5 19    15.0 1   301.0     4.60    28.10    99.00    99.00
10  8  5 20    15.0 1   270.0     5.70    23.30    99.00    99.00
10  8  5 21    15.0 1   268.0     5.10    21.00    99.00    99.00
10  8  5 22    15.0 1   270.0     4.10    19.90    99.00    99.00
10  8  5 23    15.0 1   287.0     3.60    19.00    99.00    99.00
10  8  5 24    15.0 1   300.0     2.60    18.50    99.00    99.00
10  8  6  1    15.0 1   312.0     2.10    18.40    99.00    99.00
10  8  6  2    15.0 1   335.0     1.50    18.30    99.00    99.00
10  8  6  3    15.0 1   338.0     0.50    18.10    99.00    99.00
10  8  6  4    15.0 1    18.0     0.50    17.80    99.00    99.00
10  8  6  5    15.0 1    34.0     0.50    17.40    99.00    99.00
10  8  6  6    15.0 1    16.0     0.50    17.10    99.00    99.00
10  8  6  7    15.0 1    13.0     1.00    18.40    99.00    99.00
10  8  6  8    15.0 1     0.0     0.00    20.10    99.00    99.00
10  8  6  9    15.0 1     0.0     0.00    21.90    99.00    99.00
10  8  6 10    15.0 1     0.0     0.00    23.90    99.00    99.00
10  8  6 11    15.0 1     0.0     0.00    25.90    99.00    99.00
10  8  6 12    15.0 1     0.0     0.00    27.60    99.00    99.00
10  8  6 13    15.0 1   306.0     0.50    29.10    99.00    99.00
10  8  6 14    15.0 1   312.0     0.50    30.00    99.00    99.00
10  8  6 15    15.0 1   326.0     1.00    30.60    99.00    99.00
10  8  6 16    15.0 1   340.0     1.50    31.00    99.00    99.00
10  8  6 17    15.0 1   355.0     2.10    30.90    99.00    99.00
10  8  6 18    15.0 1   311.0     3.60    30.10    99.00    99.00
10  8  6 19    15.0 1   284.0     5.10    25.80    99.00    99.00
10  8  6 20    15.0 1   268.0     5.10    22.40    99.00    99.00
10  8  6 21    15.0 1   266.0     5.10    20.40    99.00    99.00
10  8  6 22    15.0 1   276.0     4.10    19.10    99.00    99.00
10  8  6 23    15.0 1   304.0     2.10    18.40    99.00    99.00
10  8  6 24    15.0 1   358.0     1.50    17.90    99.00    99.00
10  8  7  1    15.0 1     0.0     0.00    17.10    99.00    99.00
10  8  7  2    15.0 1     0.0     0.00    16.60    99.00    99.00
10  8  7  3    15.0 1    11.0     2.60    16.00    99.00    99.00
10  8  7  4    15.0 1    11.0     2.60    15.50    99.00    99.00
10  8  7  5    15.0 1     0.0     0.00    15.10    99.00    99.00
10  8  7  6    15.0 1   351.0     2.10    15.10    99.00    99.00
10  8  7  7    15.0 1   307.0     2.10    16.80    99.00    99.00
10  8  7  8    15.0 1   320.0     0.50    18.60    99.00    99.00
10  8  7  9    15.0 1     0.0     0.00    20.90    99.00    99.00
10  8  7 10    15.0 1     0.0     0.00    22.90    99.00    99.00
10  8  7 11    15.0 1     0.0     0.00    25.10    99.00    99.00
10  8  7 12    15.0 1     0.0     0.00    26.80    99.00    99.00
10  8  7 13    15.0 1   306.0     0.50    28.10    99.00    99.00
10  8  7 14    15.0 1   307.0     0.50    29.10    99.00    99.00
10  8  7 15    15.0 1   324.0     1.50    29.60    99.00    99.00
10  8  7 16    15.0 1   306.0     2.60    29.90    99.00    99.00
10  8  7 17    15.0 1   288.0     3.10    28.90    99.00    99.00
10  8  7 18    15.0 1   291.0     4.60    26.50    99.00    99.00
10  8  7 19    15.0 1   286.0     5.10    23.10    99.00    99.00
10  8  7 20    15.0 1   286.0     5.10    20.50    99.00    99.00
10  8  7 21    15.0 1   288.0     4.10    18.90    99.00    99.00
10  8  7 22    15.0 1   291.0     3.60    17.90    99.00    99.00
10  8  7 23    15.0 1   306.0     2.60    17.40    99.00    99.00
10  8  7 24    15.0 1   356.0     2.10    17.00    99.00    99.00
10  8  8  1    15.0 1    17.0     2.10    16.60    99.00    99.00
10  8  8  2    15.0 1    40.0     2.10    16.30    99.00    99.00
10  8  8  3    15.0 1    57.0     1.50    16.00    99.00    99.00
10  8  8  4    15.0 1    74.0     1.50    15.80    99.00    99.00
10  8  8  5    15.0 1    42.0     0.50    15.60    99.00    99.00
10  8  8  6    15.0 1    47.0     0.50    15.40    99.00    99.00
10  8  8  7    15.0 1   276.0     1.50    17.00    99.00    99.00
10  8  8  8    15.0 1     0.0     0.00    18.60    99.00    99.00
10  8  8  9    15.0 1     0.0     0.00    20.50    99.00    99.00
10  8  8 10    15.0 1     0.0     0.00    22.60    99.00    99.00
```

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10  8  8 11    15.0 1     0.0     0.00    24.50    99.00    99.00
10  8  8 12    15.0 1     0.0     0.00    26.10    99.00    99.00
10  8  8 13    15.0 1   288.0     0.50    27.40    99.00    99.00
10  8  8 14    15.0 1   315.0     0.50    28.30    99.00    99.00
10  8  8 15    15.0 1   321.0     1.50    28.80    99.00    99.00
10  8  8 16    15.0 1   332.0     2.60    28.50    99.00    99.00
10  8  8 17    15.0 1   321.0     2.60    28.30    99.00    99.00
10  8  8 18    15.0 1   298.0     4.10    27.10    99.00    99.00
10  8  8 19    15.0 1   288.0     5.10    23.60    99.00    99.00
10  8  8 20    15.0 1   280.0     4.60    21.30    99.00    99.00
10  8  8 21    15.0 1   267.0     5.10    19.40    99.00    99.00
10  8  8 22    15.0 1   271.0     4.60    18.10    99.00    99.00
10  8  8 23    15.0 1   268.0     3.60    17.10    99.00    99.00
10  8  8 24    15.0 1   278.0     2.60    16.60    99.00    99.00
10  8  9  1    15.0 1   297.0     2.10    16.30    99.00    99.00
10  8  9  2    15.0 1   342.0     1.50    15.90    99.00    99.00
10  8  9  3    15.0 1   345.0     2.10    15.60    99.00    99.00
10  8  9  4    15.0 1   321.0     2.10    15.30    99.00    99.00
10  8  9  5    15.0 1   308.0     2.10    15.10    99.00    99.00
10  8  9  6    15.0 1   324.0     1.50    14.90    99.00    99.00
10  8  9  7    15.0 1   313.0     2.10    16.60    99.00    99.00
10  8  9  8    15.0 1   324.0     0.50    18.10    99.00    99.00
10  8  9  9    15.0 1     0.0     0.00    19.90    99.00    99.00
10  8  9 10    15.0 1     0.0     0.00    22.00    99.00    99.00
10  8  9 11    15.0 1     0.0     0.00    24.10    99.00    99.00
10  8  9 12    15.0 1     0.0     0.00    26.10    99.00    99.00
10  8  9 13    15.0 1   323.0     0.50    27.60    99.00    99.00
10  8  9 14    15.0 1   311.0     0.50    28.80    99.00    99.00
10  8  9 15    15.0 1   335.0     1.00    29.40    99.00    99.00
10  8  9 16    15.0 1   354.0     1.50    29.60    99.00    99.00
10  8  9 17    15.0 1     0.0     0.00    29.30    99.00    99.00
10  8  9 18    15.0 1     7.0     3.10    28.50    99.00    99.00
10  8  9 19    15.0 1     3.0     3.60    27.40    99.00    99.00
10  8  9 20    15.0 1   277.0     5.10    24.50    99.00    99.00
10  8  9 21    15.0 1   269.0     5.10    20.60    99.00    99.00
10  8  9 22    15.0 1   272.0     4.60    19.30    99.00    99.00
10  8  9 23    15.0 1   274.0     3.60    18.30    99.00    99.00
10  8  9 24    15.0 1   288.0     2.60    17.60    99.00    99.00
10  8 10  1    15.0 1   305.0     1.50    17.30    99.00    99.00
10  8 10  2    15.0 1   332.0     1.00    16.90    99.00    99.00
10  8 10  3    15.0 1   347.0     0.50    16.60    99.00    99.00
10  8 10  4    15.0 1    33.0     0.50    16.10    99.00    99.00
10  8 10  5    15.0 1    50.0     0.50    15.90    99.00    99.00
10  8 10  6    15.0 1    38.0     0.50    15.60    99.00    99.00
10  8 10  7    15.0 1   322.0     1.00    17.10    99.00    99.00
10  8 10  8    15.0 1     0.0     0.00    19.00    99.00    99.00
10  8 10  9    15.0 1     0.0     0.00    20.80    99.00    99.00
10  8 10 10    15.0 1     0.0     0.00    22.90    99.00    99.00
10  8 10 11    15.0 1     0.0     0.00    25.00    99.00    99.00
10  8 10 12    15.0 1     0.0     0.00    26.60    99.00    99.00
10  8 10 13    15.0 1     0.0     0.00    28.10    99.00    99.00
10  8 10 14    15.0 1   310.0     0.50    29.00    99.00    99.00
10  8 10 15    15.0 1   338.0     1.00    29.60    99.00    99.00
10  8 10 16    15.0 1   353.0     1.50    30.00    99.00    99.00
10  8 10 17    15.0 1     2.0     2.10    29.60    99.00    99.00
10  8 10 18    15.0 1   321.0     3.10    29.00    99.00    99.00
10  8 10 19    15.0 1   294.0     5.10    25.30    99.00    99.00
10  8 10 20    15.0 1   273.0     5.70    21.60    99.00    99.00
10  8 10 21    15.0 1   268.0     5.10    19.60    99.00    99.00
10  8 10 22    15.0 1   271.0     4.10    18.40    99.00    99.00
10  8 10 23    15.0 1   291.0     2.60    17.50    99.00    99.00
10  8 10 24    15.0 1   328.0     2.10    16.90    99.00    99.00
10  8 11  1    15.0 1   334.0     2.60    16.10    99.00    99.00
10  8 11  2    15.0 1   318.0     2.60    15.40    99.00    99.00
10  8 11  3    15.0 1   312.0     3.10    14.80    99.00    99.00
10  8 11  4    15.0 1   311.0     2.60    14.50    99.00    99.00
10  8 11  5    15.0 1   313.0     2.60    14.10    99.00    99.00
10  8 11  6    15.0 1   317.0     2.10    14.10    99.00    99.00
10  8 11  7    15.0 1   325.0     1.50    15.50    99.00    99.00
10  8 11  8    15.0 1     0.0     0.00    17.10    99.00    99.00
10  8 11  9    15.0 1     0.0     0.00    18.90    99.00    99.00
10  8 11 10    15.0 1     0.0     0.00    20.80    99.00    99.00
10  8 11 11    15.0 1     0.0     0.00    22.60    99.00    99.00
10  8 11 12    15.0 1     0.0     0.00    24.30    99.00    99.00
10  8 11 13    15.0 1   317.0     0.50    25.80    99.00    99.00
10  8 11 14    15.0 1   344.0     1.00    26.80    99.00    99.00
10  8 11 15    15.0 1   359.0     1.50    27.50    99.00    99.00
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10  8 11 16    15.0 1     6.0     2.10    27.60    99.00    99.00
10  8 11 17    15.0 1     8.0     2.60    27.50    99.00    99.00
10  8 11 18    15.0 1    19.0     3.10    26.90    99.00    99.00
10  8 11 19    15.0 1     6.0     3.60    25.80    99.00    99.00
10  8 11 20    15.0 1   319.0     3.60    24.40    99.00    99.00
10  8 11 21    15.0 1   281.0     5.10    21.10    99.00    99.00
10  8 11 22    15.0 1   278.0     4.10    19.10    99.00    99.00
10  8 11 23    15.0 1   286.0     3.60    18.40    99.00    99.00
10  8 11 24    15.0 1   313.0     3.10    18.00    99.00    99.00
10  8 12  1    15.0 1   333.0     3.10    17.60    99.00    99.00
10  8 12  2    15.0 1   338.0     2.60    17.00    99.00    99.00
10  8 12  3    15.0 1   337.0     2.60    16.40    99.00    99.00
10  8 12  4    15.0 1   339.0     2.10    15.80    99.00    99.00
10  8 12  5    15.0 1   327.0     1.50    15.30    99.00    99.00
10  8 12  6    15.0 1   326.0     1.00    14.80    99.00    99.00
10  8 12  7    15.0 1   349.0     2.10    15.60    99.00    99.00
10  8 12  8    15.0 1     0.0     0.00    17.10    99.00    99.00
10  8 12  9    15.0 1     0.0     0.00    18.80    99.00    99.00
10  8 12 10    15.0 1     0.0     0.00    20.60    99.00    99.00
10  8 12 11    15.0 1     0.0     0.00    22.60    99.00    99.00
10  8 12 12    15.0 1     0.0     0.00    24.30    99.00    99.00
10  8 12 13    15.0 1     0.0     0.00    25.60    99.00    99.00
10  8 12 14    15.0 1   339.0     0.50    26.60    99.00    99.00
10  8 12 15    15.0 1   356.0     1.00    27.40    99.00    99.00
10  8 12 16    15.0 1     6.0     1.50    27.60    99.00    99.00
10  8 12 17    15.0 1    18.0     2.60    27.60    99.00    99.00
10  8 12 18    15.0 1    32.0     2.60    27.00    99.00    99.00
10  8 12 19    15.0 1    36.0     3.10    25.90    99.00    99.00
10  8 12 20    15.0 1    19.0     2.10    24.60    99.00    99.00
10  8 12 21    15.0 1   285.0     3.60    22.90    99.00    99.00
10  8 12 22    15.0 1   282.0     4.60    19.60    99.00    99.00
10  8 12 23    15.0 1   281.0     3.60    18.40    99.00    99.00
10  8 12 24    15.0 1   282.0     2.60    17.90    99.00    99.00
10  8 13  1    15.0 1   292.0     2.60    17.60    99.00    99.00
10  8 13  2    15.0 1   305.0     3.10    17.10    99.00    99.00
10  8 13  3    15.0 1   313.0     2.60    16.90    99.00    99.00
10  8 13  4    15.0 1   325.0     2.60    16.50    99.00    99.00
10  8 13  5    15.0 1   319.0     2.10    16.10    99.00    99.00
10  8 13  6    15.0 1   323.0     1.50    15.60    99.00    99.00
10  8 13  7    15.0 1   356.0     1.50    16.60    99.00    99.00
10  8 13  8    15.0 1   356.0     0.50    18.50    99.00    99.00
10  8 13  9    15.0 1     0.0     0.00    20.10    99.00    99.00
10  8 13 10    15.0 1     0.0     0.00    22.10    99.00    99.00
10  8 13 11    15.0 1     0.0     0.00    24.00    99.00    99.00
10  8 13 12    15.0 1     0.0     0.00    25.80    99.00    99.00
10  8 13 13    15.0 1     0.0     0.00    27.40    99.00    99.00
10  8 13 14    15.0 1     0.0     0.00    28.60    99.00    99.00
10  8 13 15    15.0 1   352.0     1.00    29.40    99.00    99.00
10  8 13 16    15.0 1     0.0     0.00    30.30    99.00    99.00
10  8 13 17    15.0 1     8.0     2.10    30.00    99.00    99.00
10  8 13 18    15.0 1    24.0     3.10    29.50    99.00    99.00
10  8 13 19    15.0 1   308.0     3.60    28.40    99.00    99.00
10  8 13 20    15.0 1   267.0     6.20    23.60    99.00    99.00
10  8 13 21    15.0 1   273.0     5.70    20.60    99.00    99.00
10  8 13 22    15.0 1   270.0     4.60    19.50    99.00    99.00
10  8 13 23    15.0 1   279.0     4.10    18.50    99.00    99.00
10  8 13 24    15.0 1   293.0     3.10    17.60    99.00    99.00
10  8 14  1    15.0 1   321.0     2.10    17.10    99.00    99.00
10  8 14  2    15.0 1   335.0     2.10    16.90    99.00    99.00
10  8 14  3    15.0 1   326.0     2.10    16.60    99.00    99.00
10  8 14  4    15.0 1   328.0     2.10    16.40    99.00    99.00
10  8 14  5    15.0 1   326.0     2.10    16.10    99.00    99.00
10  8 14  6    15.0 1   336.0     2.10    15.90    99.00    99.00
10  8 14  7    15.0 1   350.0     2.10    16.80    99.00    99.00
10  8 14  8    15.0 1   352.0     0.50    18.30    99.00    99.00
10  8 14  9    15.0 1     0.0     0.00    19.90    99.00    99.00
10  8 14 10    15.0 1     0.0     0.00    21.90    99.00    99.00
10  8 14 11    15.0 1     0.0     0.00    23.80    99.00    99.00
10  8 14 12    15.0 1     0.0     0.00    25.40    99.00    99.00
10  8 14 13    15.0 1     0.0     0.00    26.80    99.00    99.00
10  8 14 14    15.0 1   348.0     0.50    28.10    99.00    99.00
10  8 14 15    15.0 1   352.0     1.00    28.90    99.00    99.00
10  8 14 16    15.0 1     0.0     0.00    29.30    99.00    99.00
10  8 14 17    15.0 1    17.0     2.60    29.10    99.00    99.00
10  8 14 18    15.0 1    35.0     2.60    28.60    99.00    99.00
10  8 14 19    15.0 1    16.0     2.60    27.60    99.00    99.00
10  8 14 20    15.0 1   292.0     4.60    25.40    99.00    99.00
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10  8 14 21    15.0 1   283.0     5.10    20.90    99.00    99.00
10  8 14 22    15.0 1   278.0     4.60    19.10    99.00    99.00
10  8 14 23    15.0 1   293.0     4.10    18.10    99.00    99.00
10  8 14 24    15.0 1   315.0     3.10    17.60    99.00    99.00
10  8 15  1    15.0 1   337.0     2.60    17.50    99.00    99.00
10  8 15  2    15.0 1   357.0     2.10    17.40    99.00    99.00
10  8 15  3    15.0 1     6.0     1.50    16.90    99.00    99.00
10  8 15  4    15.0 1    25.0     1.00    16.30    99.00    99.00
10  8 15  5    15.0 1    22.0     0.50    15.60    99.00    99.00
10  8 15  6    15.0 1     0.0     0.00    15.10    99.00    99.00
10  8 15  7    15.0 1     7.0     1.00    15.60    99.00    99.00
10  8 15  8    15.0 1     0.0     0.00    17.40    99.00    99.00
10  8 15  9    15.0 1     0.0     0.00    19.50    99.00    99.00
10  8 15 10    15.0 1     0.0     0.00    21.50    99.00    99.00
10  8 15 11    15.0 1     0.0     0.00    23.60    99.00    99.00
10  8 15 12    15.0 1   333.0     0.50    25.40    99.00    99.00
10  8 15 13    15.0 1   343.0     1.00    26.80    99.00    99.00
10  8 15 14    15.0 1   347.0     1.50    27.80    99.00    99.00
10  8 15 15    15.0 1   355.0     2.10    28.50    99.00    99.00
10  8 15 16    15.0 1   352.0     2.60    28.80    99.00    99.00
10  8 15 17    15.0 1   346.0     2.60    28.60    99.00    99.00
10  8 15 18    15.0 1   352.0     2.60    28.10    99.00    99.00
10  8 15 19    15.0 1   355.0     2.60    26.90    99.00    99.00
10  8 15 20    15.0 1   344.0     2.60    25.60    99.00    99.00
10  8 15 21    15.0 1   326.0     2.10    24.50    99.00    99.00
10  8 15 22    15.0 1   334.0     2.60    23.30    99.00    99.00
10  8 15 23    15.0 1   342.0     3.10    21.90    99.00    99.00
10  8 15 24    15.0 1   348.0     3.10    20.40    99.00    99.00
10  8 16  1    15.0 1   356.0     3.10    19.30    99.00    99.00
10  8 16  2    15.0 1     0.0     0.00    18.30    99.00    99.00
10  8 16  3    15.0 1     0.0     0.00    17.50    99.00    99.00
10  8 16  4    15.0 1     0.0     0.00    16.90    99.00    99.00
10  8 16  5    15.0 1   339.0     1.00    16.30    99.00    99.00
10  8 16  6    15.0 1   296.0     0.50    15.90    99.00    99.00
10  8 16  7    15.0 1   349.0     1.00    16.60    99.00    99.00
10  8 16  8    15.0 1     0.0     0.00    18.60    99.00    99.00
10  8 16  9    15.0 1     0.0     0.00    21.40    99.00    99.00
10  8 16 10    15.0 1     0.0     0.00    23.40    99.00    99.00
10  8 16 11    15.0 1     0.0     0.00    25.50    99.00    99.00
10  8 16 12    15.0 1     0.0     0.00    27.60    99.00    99.00
10  8 16 13    15.0 1     0.0     0.00    29.50    99.00    99.00
10  8 16 14    15.0 1   316.0     0.50    30.90    99.00    99.00
10  8 16 15    15.0 1   344.0     1.00    31.60    99.00    99.00
10  8 16 16    15.0 1   355.0     1.50    32.00    99.00    99.00
10  8 16 17    15.0 1   353.0     1.50    31.50    99.00    99.00
10  8 16 18    15.0 1   357.0     2.10    30.90    99.00    99.00
10  8 16 19    15.0 1    15.0     1.50    29.30    99.00    99.00
10  8 16 20    15.0 1   322.0     0.50    27.60    99.00    99.00
10  8 16 21    15.0 1   279.0     3.60    26.00    99.00    99.00
10  8 16 22    15.0 1   292.0     4.10    22.80    99.00    99.00
10  8 16 23    15.0 1   294.0     3.60    21.50    99.00    99.00
10  8 16 24    15.0 1   297.0     2.60    21.10    99.00    99.00
10  8 17  1    15.0 1   308.0     2.10    20.80    99.00    99.00
10  8 17  2    15.0 1   313.0     2.60    20.40    99.00    99.00
10  8 17  3    15.0 1   320.0     2.60    19.60    99.00    99.00
10  8 17  4    15.0 1   316.0     2.10    19.00    99.00    99.00
10  8 17  5    15.0 1   328.0     2.10    18.40    99.00    99.00
10  8 17  6    15.0 1   327.0     1.50    17.80    99.00    99.00
10  8 17  7    15.0 1   354.0     2.10    18.60    99.00    99.00
10  8 17  8    15.0 1   339.0     0.50    20.40    99.00    99.00
10  8 17  9    15.0 1     0.0     0.00    22.90    99.00    99.00
10  8 17 10    15.0 1     0.0     0.00    25.00    99.00    99.00
10  8 17 11    15.0 1     0.0     0.00    26.90    99.00    99.00
10  8 17 12    15.0 1     0.0     0.00    28.80    99.00    99.00
10  8 17 13    15.0 1   324.0     0.50    30.40    99.00    99.00
10  8 17 14    15.0 1   339.0     1.00    31.50    99.00    99.00
10  8 17 15    15.0 1   355.0     2.10    32.10    99.00    99.00
10  8 17 16    15.0 1     2.0     2.60    32.30    99.00    99.00
10  8 17 17    15.0 1     0.0     0.00    31.80    99.00    99.00
10  8 17 18    15.0 1    12.0     2.60    31.30    99.00    99.00
10  8 17 19    15.0 1   338.0     2.60    30.30    99.00    99.00
10  8 17 20    15.0 1   281.0     5.10    28.10    99.00    99.00
10  8 17 21    15.0 1   269.0     5.10    24.00    99.00    99.00
10  8 17 22    15.0 1   282.0     4.10    22.40    99.00    99.00
10  8 17 23    15.0 1   297.0     3.60    21.50    99.00    99.00
10  8 17 24    15.0 1   327.0     3.10    21.10    99.00    99.00
10  8 18  1    15.0 1   348.0     3.10    20.80    99.00    99.00
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10  8 18  2    15.0 1   355.0     2.60    20.40    99.00    99.00
10  8 18  3    15.0 1     4.0     2.10    19.80    99.00    99.00
10  8 18  4    15.0 1     0.0     0.00    19.10    99.00    99.00
10  8 18  5    15.0 1   351.0     1.00    18.60    99.00    99.00
10  8 18  6    15.0 1   340.0     0.50    18.10    99.00    99.00
10  8 18  7    15.0 1   352.0     1.50    18.60    99.00    99.00
10  8 18  8    15.0 1   344.0     0.50    20.40    99.00    99.00
10  8 18  9    15.0 1     0.0     0.00    22.90    99.00    99.00
10  8 18 10    15.0 1     0.0     0.00    24.80    99.00    99.00
10  8 18 11    15.0 1     0.0     0.00    26.60    99.00    99.00
10  8 18 12    15.0 1   311.0     0.50    28.40    99.00    99.00
10  8 18 13    15.0 1   342.0     0.50    29.80    99.00    99.00
10  8 18 14    15.0 1   350.0     1.00    30.80    99.00    99.00
10  8 18 15    15.0 1     1.0     1.50    31.50    99.00    99.00
10  8 18 16    15.0 1     1.0     2.10    32.30    99.00    99.00
10  8 18 17    15.0 1    14.0     2.10    31.90    99.00    99.00
10  8 18 18    15.0 1    13.0     2.60    31.50    99.00    99.00
10  8 18 19    15.0 1   338.0     3.10    30.30    99.00    99.00
10  8 18 20    15.0 1   285.0     5.10    26.90    99.00    99.00
10  8 18 21    15.0 1   270.0     5.10    23.10    99.00    99.00
10  8 18 22    15.0 1   275.0     4.60    21.50    99.00    99.00
10  8 18 23    15.0 1   283.0     4.10    20.40    99.00    99.00
10  8 18 24    15.0 1   304.0     3.10    19.40    99.00    99.00
10  8 19  1    15.0 1   320.0     2.10    18.90    99.00    99.00
10  8 19  2    15.0 1   331.0     2.10    18.60    99.00    99.00
10  8 19  3    15.0 1   315.0     1.50    18.30    99.00    99.00
10  8 19  4    15.0 1   311.0     1.50    18.10    99.00    99.00
10  8 19  5    15.0 1   310.0     1.50    17.80    99.00    99.00
10  8 19  6    15.0 1   342.0     1.00    17.40    99.00    99.00
10  8 19  7    15.0 1   351.0     1.50    18.40    99.00    99.00
10  8 19  8    15.0 1     0.0     0.00    19.90    99.00    99.00
10  8 19  9    15.0 1     0.0     0.00    22.00    99.00    99.00
10  8 19 10    15.0 1     0.0     0.00    23.90    99.00    99.00
10  8 19 11    15.0 1     0.0     0.00    25.90    99.00    99.00
10  8 19 12    15.0 1     0.0     0.00    27.60    99.00    99.00
10  8 19 13    15.0 1     0.0     0.00    29.10    99.00    99.00
10  8 19 14    15.0 1     0.0     0.00    30.30    99.00    99.00
10  8 19 15    15.0 1   352.0     0.50    31.10    99.00    99.00
10  8 19 16    15.0 1    13.0     1.50    31.50    99.00    99.00
10  8 19 17    15.0 1    28.0     2.10    31.30    99.00    99.00
10  8 19 18    15.0 1    19.0     2.60    30.80    99.00    99.00
10  8 19 19    15.0 1   315.0     3.60    29.30    99.00    99.00
10  8 19 20    15.0 1   277.0     5.10    24.10    99.00    99.00
10  8 19 21    15.0 1   273.0     5.10    21.40    99.00    99.00
10  8 19 22    15.0 1   269.0     4.10    20.10    99.00    99.00
10  8 19 23    15.0 1   266.0     3.60    19.00    99.00    99.00
10  8 19 24    15.0 1   272.0     2.60    18.10    99.00    99.00
10  8 20  1    15.0 1   339.0     1.00    17.80    99.00    99.00
10  8 20  2    15.0 1    34.0     1.50    17.10    99.00    99.00
10  8 20  3    15.0 1     6.0     1.00    16.60    99.00    99.00
10  8 20  4    15.0 1   327.0     0.50    16.10    99.00    99.00
10  8 20  5    15.0 1   311.0     1.00    15.90    99.00    99.00
10  8 20  6    15.0 1   318.0     1.00    15.60    99.00    99.00
10  8 20  7    15.0 1   296.0     2.10    16.90    99.00    99.00
10  8 20  8    15.0 1   317.0     1.00    18.80    99.00    99.00
10  8 20  9    15.0 1     0.0     0.00    21.30    99.00    99.00
10  8 20 10    15.0 1     0.0     0.00    23.30    99.00    99.00
10  8 20 11    15.0 1     0.0     0.00    25.40    99.00    99.00
10  8 20 12    15.0 1     0.0     0.00    27.40    99.00    99.00
10  8 20 13    15.0 1     0.0     0.00    29.10    99.00    99.00
10  8 20 14    15.0 1   326.0     0.50    30.40    99.00    99.00
10  8 20 15    15.0 1   347.0     1.00    31.10    99.00    99.00
10  8 20 16    15.0 1   348.0     1.50    31.60    99.00    99.00
10  8 20 17    15.0 1   352.0     1.50    31.30    99.00    99.00
10  8 20 18    15.0 1   317.0     3.60    30.50    99.00    99.00
10  8 20 19    15.0 1   287.0     5.10    25.90    99.00    99.00
10  8 20 20    15.0 1   279.0     5.70    22.40    99.00    99.00
10  8 20 21    15.0 1   286.0     4.60    20.60    99.00    99.00
10  8 20 22    15.0 1   295.0     3.60    19.50    99.00    99.00
10  8 20 23    15.0 1   315.0     3.10    18.80    99.00    99.00
10  8 20 24    15.0 1   331.0     3.10    18.10    99.00    99.00
10  8 21  1    15.0 1   355.0     3.60    17.50    99.00    99.00
10  8 21  2    15.0 1   349.0     3.60    16.90    99.00    99.00
10  8 21  3    15.0 1   340.0     3.10    16.50    99.00    99.00
10  8 21  4    15.0 1   331.0     3.10    16.10    99.00    99.00
10  8 21  5    15.0 1   336.0     2.60    16.10    99.00    99.00
10  8 21  6    15.0 1   345.0     2.60    15.90    99.00    99.00
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10  8 21  7    15.0 1   321.0     2.60    17.30    99.00    99.00
10  8 21  8    15.0 1   319.0     1.00    19.00    99.00    99.00
10  8 21  9    15.0 1     0.0     0.00    21.00    99.00    99.00
10  8 21 10    15.0 1     0.0     0.00    22.90    99.00    99.00
10  8 21 11    15.0 1     0.0     0.00    25.00    99.00    99.00
10  8 21 12    15.0 1     0.0     0.00    27.00    99.00    99.00
10  8 21 13    15.0 1   324.0     0.50    28.50    99.00    99.00
10  8 21 14    15.0 1   339.0     1.00    29.60    99.00    99.00
10  8 21 15    15.0 1   353.0     2.10    30.50    99.00    99.00
10  8 21 16    15.0 1   355.0     2.60    30.80    99.00    99.00
10  8 21 17    15.0 1   348.0     2.10    30.30    99.00    99.00
10  8 21 18    15.0 1   324.0     3.60    29.60    99.00    99.00
10  8 21 19    15.0 1   290.0     5.10    26.30    99.00    99.00
10  8 21 20    15.0 1   267.0     5.10    22.60    99.00    99.00
10  8 21 21    15.0 1   275.0     4.60    20.80    99.00    99.00
10  8 21 22    15.0 1   274.0     4.10    19.60    99.00    99.00
10  8 21 23    15.0 1   277.0     3.60    19.00    99.00    99.00
10  8 21 24    15.0 1   301.0     3.10    18.80    99.00    99.00
10  8 22  1    15.0 1   326.0     2.60    18.60    99.00    99.00
10  8 22  2    15.0 1   353.0     2.60    18.50    99.00    99.00
10  8 22  3    15.0 1     4.0     1.50    18.10    99.00    99.00
10  8 22  4    15.0 1   352.0     1.00    17.50    99.00    99.00
10  8 22  5    15.0 1   337.0     1.00    16.90    99.00    99.00
10  8 22  6    15.0 1   336.0     0.50    16.50    99.00    99.00
10  8 22  7    15.0 1   343.0     1.50    17.10    99.00    99.00
10  8 22  8    15.0 1   328.0     0.50    18.80    99.00    99.00
10  8 22  9    15.0 1     0.0     0.00    20.50    99.00    99.00
10  8 22 10    15.0 1     0.0     0.00    22.40    99.00    99.00
10  8 22 11    15.0 1   311.0     0.50    24.10    99.00    99.00
10  8 22 12    15.0 1   321.0     0.50    25.60    99.00    99.00
10  8 22 13    15.0 1   328.0     1.00    27.10    99.00    99.00
10  8 22 14    15.0 1   342.0     2.10    28.10    99.00    99.00
10  8 22 15    15.0 1   345.0     2.60    28.60    99.00    99.00
10  8 22 16    15.0 1   345.0     3.60    28.60    99.00    99.00
10  8 22 17    15.0 1   354.0     2.60    28.30    99.00    99.00
10  8 22 18    15.0 1   337.0     3.10    27.60    99.00    99.00
10  8 22 19    15.0 1   341.0     3.10    26.50    99.00    99.00
10  8 22 20    15.0 1   333.0     3.10    25.10    99.00    99.00
10  8 22 21    15.0 1   321.0     2.10    23.90    99.00    99.00
10  8 22 22    15.0 1   326.0     0.50    22.80    99.00    99.00
10  8 22 23    15.0 1   326.0     0.50    21.80    99.00    99.00
10  8 22 24    15.0 1   294.0     0.50    20.60    99.00    99.00
10  8 23  1    15.0 1   299.0     0.50    19.90    99.00    99.00
10  8 23  2    15.0 1   319.0     0.50    19.10    99.00    99.00
10  8 23  3    15.0 1   314.0     0.50    18.60    99.00    99.00
10  8 23  4    15.0 1   301.0     1.50    18.00    99.00    99.00
10  8 23  5    15.0 1   299.0     2.60    17.50    99.00    99.00
10  8 23  6    15.0 1   312.0     2.60    17.00    99.00    99.00
10  8 23  7    15.0 1   343.0     2.60    18.00    99.00    99.00
10  8 23  8    15.0 1   332.0     1.00    19.80    99.00    99.00
10  8 23  9    15.0 1     0.0     0.00    22.10    99.00    99.00
10  8 23 10    15.0 1     0.0     0.00    24.60    99.00    99.00
10  8 23 11    15.0 1     0.0     0.00    26.60    99.00    99.00
10  8 23 12    15.0 1     0.0     0.00    28.50    99.00    99.00
10  8 23 13    15.0 1     0.0     0.00    30.10    99.00    99.00
10  8 23 14    15.0 1     0.0     0.00    31.40    99.00    99.00
10  8 23 15    15.0 1   358.0     1.00    32.00    99.00    99.00
10  8 23 16    15.0 1    14.0     2.60    32.50    99.00    99.00
10  8 23 17    15.0 1     8.0     2.60    31.60    99.00    99.00
10  8 23 18    15.0 1    22.0     3.60    30.50    99.00    99.00
10  8 23 19    15.0 1    25.0     3.60    29.30    99.00    99.00
10  8 23 20    15.0 1    10.0     2.10    28.10    99.00    99.00
10  8 23 21    15.0 1   332.0     1.00    26.80    99.00    99.00
10  8 23 22    15.0 1   295.0     1.50    25.40    99.00    99.00
10  8 23 23    15.0 1   298.0     1.50    24.40    99.00    99.00
10  8 23 24    15.0 1   335.0     1.00    23.60    99.00    99.00
10  8 24  1    15.0 1   324.0     1.50    22.80    99.00    99.00
10  8 24  2    15.0 1   315.0     2.10    22.10    99.00    99.00
10  8 24  3    15.0 1   299.0     2.10    21.60    99.00    99.00
10  8 24  4    15.0 1   287.0     2.60    21.30    99.00    99.00
10  8 24  5    15.0 1   294.0     2.60    21.10    99.00    99.00
10  8 24  6    15.0 1   302.0     2.10    20.80    99.00    99.00
10  8 24  7    15.0 1   307.0     2.10    21.40    99.00    99.00
10  8 24  8    15.0 1   310.0     2.10    24.40    99.00    99.00
10  8 24  9    15.0 1   299.0     1.50    26.50    99.00    99.00
10  8 24 10    15.0 1   301.0     0.50    29.30    99.00    99.00
10  8 24 11    15.0 1   324.0     0.50    31.60    99.00    99.00
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10  8 24 12    15.0 1   331.0     0.50    33.60    99.00    99.00
10  8 24 13    15.0 1     9.0     1.00    35.00    99.00    99.00
10  8 24 14    15.0 1    17.0     1.50    35.80    99.00    99.00
10  8 24 15    15.0 1    20.0     2.60    36.10    99.00    99.00
10  8 24 16    15.0 1    19.0     3.10    35.50    99.00    99.00
10  8 24 17    15.0 1    20.0     3.60    34.30    99.00    99.00
10  8 24 18    15.0 1    25.0     4.10    33.10    99.00    99.00
10  8 24 19    15.0 1    14.0     3.10    32.60    99.00    99.00
10  8 24 20    15.0 1   296.0     2.60    31.50    99.00    99.00
10  8 24 21    15.0 1   289.0     4.60    29.90    99.00    99.00
10  8 24 22    15.0 1   299.0     4.10    28.00    99.00    99.00
10  8 24 23    15.0 1   308.0     3.60    27.00    99.00    99.00
10  8 24 24    15.0 1   326.0     3.60    26.30    99.00    99.00
10  8 25  1    15.0 1   340.0     3.60    25.60    99.00    99.00
10  8 25  2    15.0 1   352.0     2.60    25.10    99.00    99.00
10  8 25  3    15.0 1    16.0     2.60    24.60    99.00    99.00
10  8 25  4    15.0 1    36.0     1.50    24.10    99.00    99.00
10  8 25  5    15.0 1    68.0     0.50    23.80    99.00    99.00
10  8 25  6    15.0 1   105.0     0.50    23.30    99.00    99.00
10  8 25  7    15.0 1    90.0     0.50    23.60    99.00    99.00
10  8 25  8    15.0 1     0.0     0.00    26.80    99.00    99.00
10  8 25  9    15.0 1     0.0     0.00    29.00    99.00    99.00
10  8 25 10    15.0 1   283.0     0.50    31.40    99.00    99.00
10  8 25 11    15.0 1     0.0     0.00    33.60    99.00    99.00
10  8 25 12    15.0 1     0.0     0.00    35.50    99.00    99.00
10  8 25 13    15.0 1   352.0     0.50    36.90    99.00    99.00
10  8 25 14    15.0 1     7.0     1.00    37.90    99.00    99.00
10  8 25 15    15.0 1    15.0     2.60    38.30    99.00    99.00
10  8 25 16    15.0 1    13.0     3.10    37.40    99.00    99.00
10  8 25 17    15.0 1     0.0     0.00    36.40    99.00    99.00
10  8 25 18    15.0 1   326.0     4.10    35.50    99.00    99.00
10  8 25 19    15.0 1   289.0     5.10    31.80    99.00    99.00
10  8 25 20    15.0 1   277.0     4.60    28.10    99.00    99.00
10  8 25 21    15.0 1   291.0     3.60    26.90    99.00    99.00
10  8 25 22    15.0 1   328.0     3.10    26.30    99.00    99.00
10  8 25 23    15.0 1   348.0     3.60    25.80    99.00    99.00
10  8 25 24    15.0 1    13.0     3.60    25.30    99.00    99.00
10  8 26  1    15.0 1    13.0     4.10    24.60    99.00    99.00
10  8 26  2    15.0 1    12.0     3.60    23.90    99.00    99.00
10  8 26  3    15.0 1    12.0     3.60    23.60    99.00    99.00
10  8 26  4    15.0 1   360.0     3.60    23.40    99.00    99.00
10  8 26  5    15.0 1   348.0     3.10    23.10    99.00    99.00
10  8 26  6    15.0 1   327.0     3.10    23.00    99.00    99.00
10  8 26  7    15.0 1   321.0     2.60    23.10    99.00    99.00
10  8 26  8    15.0 1   324.0     2.60    24.30    99.00    99.00
10  8 26  9    15.0 1   316.0     2.10    25.60    99.00    99.00
10  8 26 10    15.0 1   318.0     0.50    27.50    99.00    99.00
10  8 26 11    15.0 1   326.0     0.50    29.80    99.00    99.00
10  8 26 12    15.0 1     0.0     0.00    31.50    99.00    99.00
10  8 26 13    15.0 1   358.0     0.50    33.00    99.00    99.00
10  8 26 14    15.0 1   352.0     1.00    34.10    99.00    99.00
10  8 26 15    15.0 1   348.0     2.10    34.60    99.00    99.00
10  8 26 16    15.0 1   356.0     3.10    34.60    99.00    99.00
10  8 26 17    15.0 1     4.0     2.60    34.10    99.00    99.00
10  8 26 18    15.0 1   316.0     3.60    33.30    99.00    99.00
10  8 26 19    15.0 1   276.0     5.10    29.40    99.00    99.00
10  8 26 20    15.0 1   275.0     6.20    25.60    99.00    99.00
10  8 26 21    15.0 1   271.0     5.10    24.00    99.00    99.00
10  8 26 22    15.0 1   274.0     3.60    22.90    99.00    99.00
10  8 26 23    15.0 1   290.0     2.10    22.40    99.00    99.00
10  8 26 24    15.0 1   334.0     1.50    21.90    99.00    99.00
10  8 27  1    15.0 1   335.0     1.50    21.30    99.00    99.00
10  8 27  2    15.0 1   301.0     1.50    20.90    99.00    99.00
10  8 27  3    15.0 1   282.0     2.10    20.60    99.00    99.00
10  8 27  4    15.0 1   284.0     2.60    20.30    99.00    99.00
10  8 27  5    15.0 1   291.0     2.60    20.10    99.00    99.00
10  8 27  6    15.0 1   299.0     1.50    19.80    99.00    99.00
10  8 27  7    15.0 1   315.0     1.50    20.60    99.00    99.00
10  8 27  8    15.0 1   310.0     0.50    22.10    99.00    99.00
10  8 27  9    15.0 1     0.0     0.00    24.00    99.00    99.00
10  8 27 10    15.0 1     0.0     0.00    25.60    99.00    99.00
10  8 27 11    15.0 1     0.0     0.00    27.60    99.00    99.00
10  8 27 12    15.0 1     0.0     0.00    29.30    99.00    99.00
10  8 27 13    15.0 1   323.0     0.50    30.60    99.00    99.00
10  8 27 14    15.0 1   335.0     1.00    31.80    99.00    99.00
10  8 27 15    15.0 1   326.0     1.50    32.40    99.00    99.00
10  8 27 16    15.0 1   300.0     3.10    32.30    99.00    99.00
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10  8 27 17    15.0 1   272.0     4.10    30.90    99.00    99.00
10  8 27 18    15.0 1   269.0     5.10    27.80    99.00    99.00
10  8 27 19    15.0 1   262.0     5.10    24.60    99.00    99.00
10  8 27 20    15.0 1   254.0     5.70    22.50    99.00    99.00
10  8 27 21    15.0 1   264.0     5.70    21.10    99.00    99.00
10  8 27 22    15.0 1   259.0     4.10    20.10    99.00    99.00
10  8 27 23    15.0 1   251.0     2.10    19.60    99.00    99.00
10  8 27 24    15.0 1   234.0     0.50    19.40    99.00    99.00
10  8 28  1    15.0 1   276.0     1.00    19.10    99.00    99.00
10  8 28  2    15.0 1   282.0     3.10    19.00    99.00    99.00
10  8 28  3    15.0 1   281.0     3.10    18.80    99.00    99.00
10  8 28  4    15.0 1   284.0     3.10    18.60    99.00    99.00
10  8 28  5    15.0 1   291.0     2.60    18.50    99.00    99.00
10  8 28  6    15.0 1   287.0     2.10    18.50    99.00    99.00
10  8 28  7    15.0 1   305.0     1.50    18.50    99.00    99.00
10  8 28  8    15.0 1   331.0     1.50    18.60    99.00    99.00
10  8 28  9    15.0 1   348.0     1.50    18.50    99.00    99.00
10  8 28 10    15.0 1     0.0     0.00    19.90    99.00    99.00
10  8 28 11    15.0 1     0.0     0.00    21.30    99.00    99.00
10  8 28 12    15.0 1     0.0     0.00    22.60    99.00    99.00
10  8 28 13    15.0 1     0.0     0.00    23.90    99.00    99.00
10  8 28 14    15.0 1   354.0     1.00    24.60    99.00    99.00
10  8 28 15    15.0 1   354.0     2.10    25.10    99.00    99.00
10  8 28 16    15.0 1    12.0     2.60    24.60    99.00    99.00
10  8 28 17    15.0 1     9.0     2.60    24.50    99.00    99.00
10  8 28 18    15.0 1     9.0     3.10    23.90    99.00    99.00
10  8 28 19    15.0 1   354.0     3.60    22.60    99.00    99.00
10  8 28 20    15.0 1   328.0     4.10    20.60    99.00    99.00
10  8 28 21    15.0 1   310.0     3.60    18.80    99.00    99.00
10  8 28 22    15.0 1   302.0     3.60    17.60    99.00    99.00
10  8 28 23    15.0 1   293.0     3.60    16.90    99.00    99.00
10  8 28 24    15.0 1   286.0     3.60    16.10    99.00    99.00
10  8 29  1    15.0 1   293.0     3.10    15.40    99.00    99.00
10  8 29  2    15.0 1   283.0     3.10    14.90    99.00    99.00
10  8 29  3    15.0 1   273.0     3.10    14.60    99.00    99.00
10  8 29  4    15.0 1   274.0     3.10    14.60    99.00    99.00
10  8 29  5    15.0 1   267.0     2.60    14.90    99.00    99.00
10  8 29  6    15.0 1   270.0     2.10    15.00    99.00    99.00
10  8 29  7    15.0 1   280.0     2.10    15.10    99.00    99.00
10  8 29  8    15.0 1   304.0     2.60    15.40    99.00    99.00
10  8 29  9    15.0 1   318.0     0.50    16.50    99.00    99.00
10  8 29 10    15.0 1     0.0     0.00    17.10    99.00    99.00
10  8 29 11    15.0 1     0.0     0.00    17.60    99.00    99.00
10  8 29 12    15.0 1     0.0     0.00    18.90    99.00    99.00
10  8 29 13    15.0 1     0.0     0.00    20.50    99.00    99.00
10  8 29 14    15.0 1   337.0     0.50    21.60    99.00    99.00
10  8 29 15    15.0 1   351.0     1.50    22.40    99.00    99.00
10  8 29 16    15.0 1   346.0     3.10    22.60    99.00    99.00
10  8 29 17    15.0 1     0.0     0.00    22.40    99.00    99.00
10  8 29 18    15.0 1    23.0     3.10    21.60    99.00    99.00
10  8 29 19    15.0 1    30.0     3.60    20.40    99.00    99.00
10  8 29 20    15.0 1    64.0     2.60    19.60    99.00    99.00
10  8 29 21    15.0 1   108.0     2.10    18.60    99.00    99.00
10  8 29 22    15.0 1   143.0     2.60    17.90    99.00    99.00
10  8 29 23    15.0 1   142.0     3.10    17.30    99.00    99.00
10  8 29 24    15.0 1   145.0     2.60    16.60    99.00    99.00
10  8 30  1    15.0 1   159.0     2.10    15.90    99.00    99.00
10  8 30  2    15.0 1   169.0     1.00    15.40    99.00    99.00
10  8 30  3    15.0 1   188.0     0.50    14.80    99.00    99.00
10  8 30  4    15.0 1   266.0     1.00    14.30    99.00    99.00
10  8 30  5    15.0 1   299.0     1.00    13.60    99.00    99.00
10  8 30  6    15.0 1   288.0     1.00    13.10    99.00    99.00
10  8 30  7    15.0 1   320.0     1.00    14.10    99.00    99.00
10  8 30  8    15.0 1   317.0     0.50    16.10    99.00    99.00
10  8 30  9    15.0 1     0.0     0.00    18.10    99.00    99.00
10  8 30 10    15.0 1     0.0     0.00    19.80    99.00    99.00
10  8 30 11    15.0 1     0.0     0.00    21.40    99.00    99.00
10  8 30 12    15.0 1   303.0     0.50    22.60    99.00    99.00
10  8 30 13    15.0 1   322.0     1.00    23.90    99.00    99.00
10  8 30 14    15.0 1   332.0     2.10    24.80    99.00    99.00
10  8 30 15    15.0 1   337.0     3.10    25.10    99.00    99.00
10  8 30 16    15.0 1   347.0     4.10    25.10    99.00    99.00
10  8 30 17    15.0 1   354.0     2.60    24.60    99.00    99.00
10  8 30 18    15.0 1   357.0     3.60    23.60    99.00    99.00
10  8 30 19    15.0 1   342.0     3.60    22.80    99.00    99.00
10  8 30 20    15.0 1   330.0     3.60    21.60    99.00    99.00
10  8 30 21    15.0 1   328.0     3.10    20.60    99.00    99.00
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10  8 30 22    15.0 1   319.0     2.60    19.60    99.00    99.00
10  8 30 23    15.0 1   307.0     2.10    18.50    99.00    99.00
10  8 30 24    15.0 1   328.0     2.60    17.60    99.00    99.00
10  8 31  1    15.0 1   338.0     1.50    17.00    99.00    99.00
10  8 31  2    15.0 1    23.0     0.50    16.40    99.00    99.00
10  8 31  3    15.0 1    54.0     0.50    16.10    99.00    99.00
10  8 31  4    15.0 1    41.0     0.50    15.60    99.00    99.00
10  8 31  5    15.0 1   358.0     0.50    15.10    99.00    99.00
10  8 31  6    15.0 1   283.0     0.50    14.60    99.00    99.00
10  8 31  7    15.0 1   322.0     0.50    15.10    99.00    99.00
10  8 31  8    15.0 1     0.0     0.00    16.30    99.00    99.00
10  8 31  9    15.0 1     0.0     0.00    17.10    99.00    99.00
10  8 31 10    15.0 1     0.0     0.00    19.00    99.00    99.00
10  8 31 11    15.0 1     0.0     0.00    21.10    99.00    99.00
10  8 31 12    15.0 1     0.0     0.00    23.00    99.00    99.00
10  8 31 13    15.0 1   328.0     0.50    24.50    99.00    99.00
10  8 31 14    15.0 1   340.0     1.50    25.60    99.00    99.00
10  8 31 15    15.0 1   354.0     2.10    26.30    99.00    99.00
10  8 31 16    15.0 1   346.0     2.60    26.50    99.00    99.00
10  8 31 17    15.0 1     8.0     2.10    26.10    99.00    99.00
10  8 31 18    15.0 1    17.0     2.10    25.60    99.00    99.00
10  8 31 19    15.0 1    35.0     1.50    24.50    99.00    99.00
10  8 31 20    15.0 1    71.0     0.50    23.10    99.00    99.00
10  8 31 21    15.0 1     0.0     0.00    21.60    99.00    99.00
10  8 31 22    15.0 1     0.0     0.00    20.10    99.00    99.00
10  8 31 23    15.0 1    86.0     0.50    19.00    99.00    99.00
10  8 31 24    15.0 1    90.0     0.50    18.10    99.00    99.00
10  9  1  1    15.0 1   110.0     0.50    17.30    99.00    99.00
10  9  1  2    15.0 1   114.0     0.50    16.60    99.00    99.00
10  9  1  3    15.0 1     0.0     0.00    16.10    99.00    99.00
10  9  1  4    15.0 1   278.0     1.00    15.90    99.00    99.00
10  9  1  5    15.0 1   294.0     1.50    15.50    99.00    99.00
10  9  1  6    15.0 1   278.0     1.50    15.10    99.00    99.00
10  9  1  7    15.0 1   284.0     1.00    15.90    99.00    99.00
10  9  1  8    15.0 1   286.0     0.50    18.60    99.00    99.00
10  9  1  9    15.0 1     0.0     0.00    21.00    99.00    99.00
10  9  1 10    15.0 1     0.0     0.00    23.10    99.00    99.00
10  9  1 11    15.0 1     0.0     0.00    25.00    99.00    99.00
10  9  1 12    15.0 1     0.0     0.00    27.00    99.00    99.00
10  9  1 13    15.0 1     0.0     0.00    28.60    99.00    99.00
10  9  1 14    15.0 1   353.0     0.50    29.90    99.00    99.00
10  9  1 15    15.0 1     8.0     1.00    30.50    99.00    99.00
10  9  1 16    15.0 1     8.0     2.10    30.60    99.00    99.00
10  9  1 17    15.0 1    18.0     2.10    29.90    99.00    99.00
10  9  1 18    15.0 1    21.0     3.10    29.00    99.00    99.00
10  9  1 19    15.0 1    32.0     2.10    27.50    99.00    99.00
10  9  1 20    15.0 1     0.0     0.00    25.90    99.00    99.00
10  9  1 21    15.0 1   239.0     0.50    24.10    99.00    99.00
10  9  1 22    15.0 1   283.0     1.00    22.80    99.00    99.00
10  9  1 23    15.0 1   312.0     1.50    21.80    99.00    99.00
10  9  1 24    15.0 1   336.0     1.50    21.00    99.00    99.00
10  9  2  1    15.0 1     0.0     0.00    20.30    99.00    99.00
10  9  2  2    15.0 1    30.0     0.50    19.60    99.00    99.00
10  9  2  3    15.0 1     0.0     0.00    19.10    99.00    99.00
10  9  2  4    15.0 1     0.0     0.00    18.40    99.00    99.00
10  9  2  5    15.0 1     0.0     0.00    17.90    99.00    99.00
10  9  2  6    15.0 1     0.0     0.00    17.50    99.00    99.00
10  9  2  7    15.0 1   305.0     0.50    17.80    99.00    99.00
10  9  2  8    15.0 1   300.0     1.50    21.10    99.00    99.00
10  9  2  9    15.0 1   304.0     1.50    23.40    99.00    99.00
10  9  2 10    15.0 1   297.0     0.50    26.00    99.00    99.00
10  9  2 11    15.0 1   304.0     0.50    28.60    99.00    99.00
10  9  2 12    15.0 1   326.0     0.50    30.30    99.00    99.00
10  9  2 13    15.0 1     0.0     0.00    31.60    99.00    99.00
10  9  2 14    15.0 1    24.0     1.50    32.60    99.00    99.00
10  9  2 15    15.0 1    24.0     2.60    33.00    99.00    99.00
10  9  2 16    15.0 1    32.0     3.10    33.10    99.00    99.00
10  9  2 17    15.0 1    33.0     3.10    32.30    99.00    99.00
10  9  2 18    15.0 1    31.0     3.10    31.60    99.00    99.00
10  9  2 19    15.0 1    18.0     2.10    30.40    99.00    99.00
10  9  2 20    15.0 1   276.0     2.60    29.10    99.00    99.00
10  9  2 21    15.0 1   276.0     5.10    25.90    99.00    99.00
10  9  2 22    15.0 1   279.0     4.10    23.80    99.00    99.00
10  9  2 23    15.0 1   305.0     3.10    23.00    99.00    99.00
10  9  2 24    15.0 1   327.0     2.10    22.60    99.00    99.00
10  9  3  1    15.0 1     0.0     0.00    22.10    99.00    99.00
10  9  3  2    15.0 1    18.0     0.50    21.80    99.00    99.00
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10  9  3  3    15.0 1     0.0     0.00    21.50    99.00    99.00
10  9  3  4    15.0 1   239.0     0.50    21.10    99.00    99.00
10  9  3  5    15.0 1     0.0     0.00    20.50    99.00    99.00
10  9  3  6    15.0 1    83.0     0.50    19.90    99.00    99.00
10  9  3  7    15.0 1     0.0     0.00    20.00    99.00    99.00
10  9  3  8    15.0 1     0.0     0.00    22.60    99.00    99.00
10  9  3  9    15.0 1     0.0     0.00    24.90    99.00    99.00
10  9  3 10    15.0 1     0.0     0.00    26.80    99.00    99.00
10  9  3 11    15.0 1     0.0     0.00    28.40    99.00    99.00
10  9  3 12    15.0 1     0.0     0.00    30.10    99.00    99.00
10  9  3 13    15.0 1     0.0     0.00    31.60    99.00    99.00
10  9  3 14    15.0 1   335.0     0.50    32.80    99.00    99.00
10  9  3 15    15.0 1   346.0     1.50    33.40    99.00    99.00
10  9  3 16    15.0 1     0.0     0.00    33.30    99.00    99.00
10  9  3 17    15.0 1     6.0     2.10    32.60    99.00    99.00
10  9  3 18    15.0 1    16.0     2.60    31.90    99.00    99.00
10  9  3 19    15.0 1    15.0     1.50    30.50    99.00    99.00
10  9  3 20    15.0 1   282.0     2.10    29.30    99.00    99.00
10  9  3 21    15.0 1   282.0     5.10    26.10    99.00    99.00
10  9  3 22    15.0 1   280.0     4.60    23.60    99.00    99.00
10  9  3 23    15.0 1   278.0     3.60    22.60    99.00    99.00
10  9  3 24    15.0 1   323.0     3.10    22.00    99.00    99.00
10  9  4  1    15.0 1   333.0     3.10    21.60    99.00    99.00
10  9  4  2    15.0 1   332.0     2.10    21.40    99.00    99.00
10  9  4  3    15.0 1   332.0     1.50    21.10    99.00    99.00
10  9  4  4    15.0 1   341.0     0.50    20.80    99.00    99.00
10  9  4  5    15.0 1   354.0     0.50    20.40    99.00    99.00
10  9  4  6    15.0 1   337.0     0.50    19.90    99.00    99.00
10  9  4  7    15.0 1   346.0     1.00    20.10    99.00    99.00
10  9  4  8    15.0 1   349.0     0.50    21.40    99.00    99.00
10  9  4  9    15.0 1     0.0     0.00    23.60    99.00    99.00
10  9  4 10    15.0 1     0.0     0.00    25.30    99.00    99.00
10  9  4 11    15.0 1     0.0     0.00    27.10    99.00    99.00
10  9  4 12    15.0 1     0.0     0.00    29.00    99.00    99.00
10  9  4 13    15.0 1   321.0     0.50    30.10    99.00    99.00
10  9  4 14    15.0 1   335.0     1.00    31.10    99.00    99.00
10  9  4 15    15.0 1   355.0     1.50    31.80    99.00    99.00
10  9  4 16    15.0 1     0.0     0.00    32.00    99.00    99.00
10  9  4 17    15.0 1    22.0     2.10    31.60    99.00    99.00
10  9  4 18    15.0 1    34.0     2.60    31.00    99.00    99.00
10  9  4 19    15.0 1    24.0     1.50    29.60    99.00    99.00
10  9  4 20    15.0 1   274.0     1.50    28.60    99.00    99.00
10  9  4 21    15.0 1   271.0     5.10    25.90    99.00    99.00
10  9  4 22    15.0 1   275.0     4.60    23.10    99.00    99.00
10  9  4 23    15.0 1   267.0     3.60    22.10    99.00    99.00
10  9  4 24    15.0 1   277.0     2.60    21.80    99.00    99.00
10  9  5  1    15.0 1   284.0     2.10    21.60    99.00    99.00
10  9  5  2    15.0 1   295.0     1.50    21.30    99.00    99.00
10  9  5  3    15.0 1   278.0     1.00    20.90    99.00    99.00
10  9  5  4    15.0 1   267.0     0.50    20.50    99.00    99.00
10  9  5  5    15.0 1   285.0     1.00    20.00    99.00    99.00
10  9  5  6    15.0 1   303.0     1.00    19.60    99.00    99.00
10  9  5  7    15.0 1   332.0     1.50    20.00    99.00    99.00
10  9  5  8    15.0 1   343.0     1.00    21.60    99.00    99.00
10  9  5  9    15.0 1     0.0     0.00    23.60    99.00    99.00
10  9  5 10    15.0 1     0.0     0.00    25.30    99.00    99.00
10  9  5 11    15.0 1     0.0     0.00    26.90    99.00    99.00
10  9  5 12    15.0 1     0.0     0.00    28.30    99.00    99.00
10  9  5 13    15.0 1     0.0     0.00    29.60    99.00    99.00
10  9  5 14    15.0 1   340.0     1.00    30.40    99.00    99.00
10  9  5 15    15.0 1   355.0     2.10    30.80    99.00    99.00
10  9  5 16    15.0 1     1.0     3.10    30.90    99.00    99.00
10  9  5 17    15.0 1     8.0     2.60    30.50    99.00    99.00
10  9  5 18    15.0 1    11.0     3.60    29.60    99.00    99.00
10  9  5 19    15.0 1   348.0     4.10    27.80    99.00    99.00
10  9  5 20    15.0 1   337.0     3.60    26.40    99.00    99.00
10  9  5 21    15.0 1   320.0     3.60    25.50    99.00    99.00
10  9  5 22    15.0 1   306.0     3.10    24.90    99.00    99.00
10  9  5 23    15.0 1   304.0     2.60    24.00    99.00    99.00
10  9  5 24    15.0 1   304.0     2.10    23.10    99.00    99.00
10  9  6  1    15.0 1   301.0     2.60    22.50    99.00    99.00
10  9  6  2    15.0 1   308.0     2.60    21.60    99.00    99.00
10  9  6  3    15.0 1   310.0     2.10    21.00    99.00    99.00
10  9  6  4    15.0 1   312.0     3.10    20.30    99.00    99.00
10  9  6  5    15.0 1   315.0     3.60    19.40    99.00    99.00
10  9  6  6    15.0 1   320.0     3.10    18.60    99.00    99.00
10  9  6  7    15.0 1   343.0     2.60    19.10    99.00    99.00
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10  9  6  8    15.0 1   332.0     1.50    20.60    99.00    99.00
10  9  6  9    15.0 1   299.0     0.50    22.50    99.00    99.00
10  9  6 10    15.0 1     0.0     0.00    25.10    99.00    99.00
10  9  6 11    15.0 1     0.0     0.00    26.90    99.00    99.00
10  9  6 12    15.0 1     0.0     0.00    28.60    99.00    99.00
10  9  6 13    15.0 1     0.0     0.00    30.10    99.00    99.00
10  9  6 14    15.0 1   301.0     0.50    31.30    99.00    99.00
10  9  6 15    15.0 1   316.0     1.00    31.90    99.00    99.00
10  9  6 16    15.0 1   342.0     2.60    32.00    99.00    99.00
10  9  6 17    15.0 1   357.0     3.10    31.00    99.00    99.00
10  9  6 18    15.0 1     0.0     0.00    29.50    99.00    99.00
10  9  6 19    15.0 1   343.0     3.60    28.50    99.00    99.00
10  9  6 20    15.0 1   294.0     4.60    26.50    99.00    99.00
10  9  6 21    15.0 1   285.0     3.60    23.60    99.00    99.00
10  9  6 22    15.0 1   291.0     3.10    22.60    99.00    99.00
10  9  6 23    15.0 1   315.0     3.60    21.80    99.00    99.00
10  9  6 24    15.0 1   334.0     3.10    21.10    99.00    99.00
10  9  7  1    15.0 1     0.0     0.00    20.50    99.00    99.00
10  9  7  2    15.0 1    17.0     3.60    19.90    99.00    99.00
10  9  7  3    15.0 1    23.0     3.10    19.50    99.00    99.00
10  9  7  4    15.0 1    12.0     2.60    19.10    99.00    99.00
10  9  7  5    15.0 1    15.0     2.10    18.90    99.00    99.00
10  9  7  6    15.0 1     0.0     0.00    18.60    99.00    99.00
10  9  7  7    15.0 1     3.0     1.00    18.80    99.00    99.00
10  9  7  8    15.0 1   333.0     1.50    21.30    99.00    99.00
10  9  7  9    15.0 1   325.0     1.00    23.10    99.00    99.00
10  9  7 10    15.0 1   319.0     0.50    24.60    99.00    99.00
10  9  7 11    15.0 1     0.0     0.00    26.10    99.00    99.00
10  9  7 12    15.0 1   329.0     0.50    27.50    99.00    99.00
10  9  7 13    15.0 1   328.0     0.50    28.60    99.00    99.00
10  9  7 14    15.0 1   355.0     1.00    29.60    99.00    99.00
10  9  7 15    15.0 1   355.0     1.50    30.10    99.00    99.00
10  9  7 16    15.0 1     0.0     0.00    30.10    99.00    99.00
10  9  7 17    15.0 1     6.0     2.10    29.90    99.00    99.00
10  9  7 18    15.0 1   311.0     2.60    29.40    99.00    99.00
10  9  7 19    15.0 1   268.0     5.10    25.40    99.00    99.00
10  9  7 20    15.0 1   259.0     5.10    22.00    99.00    99.00
10  9  7 21    15.0 1   256.0     5.10    20.40    99.00    99.00
10  9  7 22    15.0 1   275.0     4.60    19.10    99.00    99.00
10  9  7 23    15.0 1   278.0     3.10    18.60    99.00    99.00
10  9  7 24    15.0 1   307.0     1.50    18.40    99.00    99.00
10  9  8  1    15.0 1   319.0     1.50    18.10    99.00    99.00
10  9  8  2    15.0 1   299.0     2.10    17.60    99.00    99.00
10  9  8  3    15.0 1   286.0     3.10    16.80    99.00    99.00
10  9  8  4    15.0 1   287.0     2.60    15.90    99.00    99.00
10  9  8  5    15.0 1   290.0     2.60    15.30    99.00    99.00
10  9  8  6    15.0 1   289.0     2.60    15.00    99.00    99.00
10  9  8  7    15.0 1   286.0     2.60    15.40    99.00    99.00
10  9  8  8    15.0 1   290.0     2.60    16.10    99.00    99.00
10  9  8  9    15.0 1   297.0     1.50    16.40    99.00    99.00
10  9  8 10    15.0 1     0.0     0.00    17.10    99.00    99.00
10  9  8 11    15.0 1     0.0     0.00    18.90    99.00    99.00
10  9  8 12    15.0 1     0.0     0.00    20.30    99.00    99.00
10  9  8 13    15.0 1     0.0     0.00    21.50    99.00    99.00
10  9  8 14    15.0 1     0.0     0.00    22.60    99.00    99.00
10  9  8 15    15.0 1     2.0     1.00    23.40    99.00    99.00
10  9  8 16    15.0 1   329.0     2.60    23.60    99.00    99.00
10  9  8 17    15.0 1   302.0     2.60    23.10    99.00    99.00
10  9  8 18    15.0 1   283.0     4.10    21.30    99.00    99.00
10  9  8 19    15.0 1   287.0     4.60    19.30    99.00    99.00
10  9  8 20    15.0 1   300.0     3.60    17.90    99.00    99.00
10  9  8 21    15.0 1   299.0     3.60    17.00    99.00    99.00
10  9  8 22    15.0 1   295.0     3.10    16.10    99.00    99.00
10  9  8 23    15.0 1   292.0     3.10    15.10    99.00    99.00
10  9  8 24    15.0 1   285.0     3.10    14.60    99.00    99.00
10  9  9  1    15.0 1   289.0     3.10    14.60    99.00    99.00
10  9  9  2    15.0 1   289.0     3.10    14.60    99.00    99.00
10  9  9  3    15.0 1   288.0     3.10    14.60    99.00    99.00
10  9  9  4    15.0 1   287.0     3.10    14.40    99.00    99.00
10  9  9  5    15.0 1   304.0     3.10    14.10    99.00    99.00
10  9  9  6    15.0 1   298.0     2.60    14.00    99.00    99.00
10  9  9  7    15.0 1   295.0     2.10    14.00    99.00    99.00
10  9  9  8    15.0 1   302.0     1.50    14.40    99.00    99.00
10  9  9  9    15.0 1   338.0     1.50    14.60    99.00    99.00
10  9  9 10    15.0 1   324.0     1.00    15.60    99.00    99.00
10  9  9 11    15.0 1   304.0     1.00    17.90    99.00    99.00
10  9  9 12    15.0 1   297.0     1.00    19.50    99.00    99.00
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10  9  9 13    15.0 1   335.0     0.50    20.90    99.00    99.00
10  9  9 14    15.0 1    15.0     0.50    21.90    99.00    99.00
10  9  9 15    15.0 1    14.0     1.00    22.50    99.00    99.00
10  9  9 16    15.0 1    25.0     1.50    22.60    99.00    99.00
10  9  9 17    15.0 1    21.0     2.10    22.50    99.00    99.00
10  9  9 18    15.0 1    35.0     1.50    22.10    99.00    99.00
10  9  9 19    15.0 1    19.0     0.50    21.10    99.00    99.00
10  9  9 20    15.0 1   169.0     0.50    19.60    99.00    99.00
10  9  9 21    15.0 1   159.0     1.50    18.30    99.00    99.00
10  9  9 22    15.0 1   149.0     2.60    17.10    99.00    99.00
10  9  9 23    15.0 1   163.0     2.60    16.40    99.00    99.00
10  9  9 24    15.0 1   140.0     2.10    15.80    99.00    99.00
10  9 10  1    15.0 1   145.0     2.10    15.30    99.00    99.00
10  9 10  2    15.0 1   139.0     1.50    14.80    99.00    99.00
10  9 10  3    15.0 1     0.0     0.00    14.30    99.00    99.00
10  9 10  4    15.0 1   320.0     1.00    14.00    99.00    99.00
10  9 10  5    15.0 1   300.0     1.00    13.60    99.00    99.00
10  9 10  6    15.0 1   285.0     1.50    13.30    99.00    99.00
10  9 10  7    15.0 1   286.0     2.10    13.60    99.00    99.00
10  9 10  8    15.0 1   325.0     2.10    15.50    99.00    99.00
10  9 10  9    15.0 1   303.0     1.00    17.40    99.00    99.00
10  9 10 10    15.0 1   277.0     0.50    19.10    99.00    99.00
10  9 10 11    15.0 1     0.0     0.00    20.80    99.00    99.00
10  9 10 12    15.0 1   308.0     0.50    22.40    99.00    99.00
10  9 10 13    15.0 1   331.0     0.50    23.80    99.00    99.00
10  9 10 14    15.0 1   356.0     1.00    24.90    99.00    99.00
10  9 10 15    15.0 1     6.0     1.50    25.60    99.00    99.00
10  9 10 16    15.0 1    18.0     2.60    25.60    99.00    99.00
10  9 10 17    15.0 1    20.0     2.60    25.10    99.00    99.00
10  9 10 18    15.0 1    26.0     3.10    24.30    99.00    99.00
10  9 10 19    15.0 1    33.0     2.60    23.10    99.00    99.00
10  9 10 20    15.0 1     0.0     0.00    21.80    99.00    99.00
10  9 10 21    15.0 1   235.0     1.00    20.30    99.00    99.00
10  9 10 22    15.0 1   274.0     3.10    19.10    99.00    99.00
10  9 10 23    15.0 1   280.0     3.10    18.10    99.00    99.00
10  9 10 24    15.0 1   299.0     2.10    17.30    99.00    99.00
10  9 11  1    15.0 1   309.0     0.50    16.60    99.00    99.00
10  9 11  2    15.0 1   288.0     0.50    16.10    99.00    99.00
10  9 11  3    15.0 1   309.0     0.50    15.50    99.00    99.00
10  9 11  4    15.0 1   313.0     1.00    15.00    99.00    99.00
10  9 11  5    15.0 1   315.0     2.10    14.50    99.00    99.00
10  9 11  6    15.0 1   314.0     2.10    14.10    99.00    99.00
10  9 11  7    15.0 1   309.0     2.10    14.10    99.00    99.00
10  9 11  8    15.0 1   328.0     1.50    16.30    99.00    99.00
10  9 11  9    15.0 1   313.0     0.50    18.60    99.00    99.00
10  9 11 10    15.0 1     0.0     0.00    21.40    99.00    99.00
10  9 11 11    15.0 1     0.0     0.00    23.50    99.00    99.00
10  9 11 12    15.0 1     0.0     0.00    25.40    99.00    99.00
10  9 11 13    15.0 1     0.0     0.00    27.00    99.00    99.00
10  9 11 14    15.0 1   316.0     0.50    28.00    99.00    99.00
10  9 11 15    15.0 1   353.0     0.50    28.60    99.00    99.00
10  9 11 16    15.0 1     3.0     1.50    28.90    99.00    99.00
10  9 11 17    15.0 1    22.0     2.60    28.30    99.00    99.00
10  9 11 18    15.0 1     0.0     0.00    27.40    99.00    99.00
10  9 11 19    15.0 1   313.0     4.60    25.00    99.00    99.00
10  9 11 20    15.0 1   286.0     4.10    20.60    99.00    99.00
10  9 11 21    15.0 1   282.0     4.10    18.60    99.00    99.00
10  9 11 22    15.0 1   278.0     4.10    17.50    99.00    99.00
10  9 11 23    15.0 1   291.0     3.10    16.60    99.00    99.00
10  9 11 24    15.0 1   345.0     2.10    16.10    99.00    99.00
10  9 12  1    15.0 1    20.0     3.10    15.50    99.00    99.00
10  9 12  2    15.0 1    15.0     3.10    14.80    99.00    99.00
10  9 12  3    15.0 1    13.0     2.10    14.40    99.00    99.00
10  9 12  4    15.0 1   356.0     1.50    14.10    99.00    99.00
10  9 12  5    15.0 1     0.0     0.00    13.90    99.00    99.00
10  9 12  6    15.0 1    16.0     0.50    13.60    99.00    99.00
10  9 12  7    15.0 1   357.0     0.50    14.00    99.00    99.00
10  9 12  8    15.0 1     0.0     0.00    16.10    99.00    99.00
10  9 12  9    15.0 1     0.0     0.00    18.50    99.00    99.00
10  9 12 10    15.0 1     0.0     0.00    20.50    99.00    99.00
10  9 12 11    15.0 1     0.0     0.00    22.40    99.00    99.00
10  9 12 12    15.0 1   326.0     0.50    24.40    99.00    99.00
10  9 12 13    15.0 1   333.0     0.50    26.00    99.00    99.00
10  9 12 14    15.0 1   338.0     1.50    27.10    99.00    99.00
10  9 12 15    15.0 1   353.0     2.10    27.60    99.00    99.00
10  9 12 16    15.0 1   349.0     2.60    28.80    99.00    99.00
10  9 12 17    15.0 1   354.0     2.10    28.30    99.00    99.00
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10  9 12 18    15.0 1   324.0     3.60    27.50    99.00    99.00
10  9 12 19    15.0 1   293.0     4.60    23.90    99.00    99.00
10  9 12 20    15.0 1   278.0     4.60    20.40    99.00    99.00
10  9 12 21    15.0 1   279.0     4.60    18.80    99.00    99.00
10  9 12 22    15.0 1   290.0     4.10    17.50    99.00    99.00
10  9 12 23    15.0 1   289.0     3.10    16.50    99.00    99.00
10  9 12 24    15.0 1   327.0     2.60    15.90    99.00    99.00
10  9 13  1    15.0 1   360.0     3.10    15.30    99.00    99.00
10  9 13  2    15.0 1     0.0     0.00    14.60    99.00    99.00
10  9 13  3    15.0 1   346.0     2.60    14.10    99.00    99.00
10  9 13  4    15.0 1   347.0     2.10    13.80    99.00    99.00
10  9 13  5    15.0 1   340.0     1.50    13.60    99.00    99.00
10  9 13  6    15.0 1   347.0     1.00    13.40    99.00    99.00
10  9 13  7    15.0 1   335.0     0.50    13.80    99.00    99.00
10  9 13  8    15.0 1   301.0     0.50    15.80    99.00    99.00
10  9 13  9    15.0 1     0.0     0.00    17.90    99.00    99.00
10  9 13 10    15.0 1     0.0     0.00    19.80    99.00    99.00
10  9 13 11    15.0 1     0.0     0.00    21.60    99.00    99.00
10  9 13 12    15.0 1     0.0     0.00    23.60    99.00    99.00
10  9 13 13    15.0 1     0.0     0.00    25.10    99.00    99.00
10  9 13 14    15.0 1     0.0     0.00    26.30    99.00    99.00
10  9 13 15    15.0 1   340.0     1.00    27.00    99.00    99.00
10  9 13 16    15.0 1     1.0     1.50    27.30    99.00    99.00
10  9 13 17    15.0 1     9.0     2.10    26.80    99.00    99.00
10  9 13 18    15.0 1    23.0     3.10    25.90    99.00    99.00
10  9 13 19    15.0 1     0.0     0.00    24.60    99.00    99.00
10  9 13 20    15.0 1   284.0     4.60    22.10    99.00    99.00
10  9 13 21    15.0 1   266.0     5.10    18.50    99.00    99.00
10  9 13 22    15.0 1   268.0     4.10    17.10    99.00    99.00
10  9 13 23    15.0 1   294.0     3.60    16.30    99.00    99.00
10  9 13 24    15.0 1   307.0     2.60    15.60    99.00    99.00
10  9 14  1    15.0 1   326.0     2.10    15.10    99.00    99.00
10  9 14  2    15.0 1   330.0     1.50    14.60    99.00    99.00
10  9 14  3    15.0 1   320.0     1.00    14.40    99.00    99.00
10  9 14  4    15.0 1   327.0     0.50    14.10    99.00    99.00
10  9 14  5    15.0 1    10.0     0.50    13.60    99.00    99.00
10  9 14  6    15.0 1    51.0     0.50    13.30    99.00    99.00
10  9 14  7    15.0 1     0.0     0.00    13.30    99.00    99.00
10  9 14  8    15.0 1     0.0     0.00    15.50    99.00    99.00
10  9 14  9    15.0 1     0.0     0.00    17.60    99.00    99.00
10  9 14 10    15.0 1     0.0     0.00    19.50    99.00    99.00
10  9 14 11    15.0 1     0.0     0.00    21.30    99.00    99.00
10  9 14 12    15.0 1     0.0     0.00    23.10    99.00    99.00
10  9 14 13    15.0 1   332.0     0.50    24.50    99.00    99.00
10  9 14 14    15.0 1   347.0     1.00    25.50    99.00    99.00
10  9 14 15    15.0 1     1.0     1.50    26.10    99.00    99.00
10  9 14 16    15.0 1     9.0     2.10    26.40    99.00    99.00
10  9 14 17    15.0 1    21.0     2.10    26.10    99.00    99.00
10  9 14 18    15.0 1    19.0     2.10    25.40    99.00    99.00
10  9 14 19    15.0 1    26.0     2.10    24.00    99.00    99.00
10  9 14 20    15.0 1    55.0     0.50    22.50    99.00    99.00
10  9 14 21    15.0 1   237.0     0.50    21.00    99.00    99.00
10  9 14 22    15.0 1   270.0     3.10    19.60    99.00    99.00
10  9 14 23    15.0 1   282.0     3.10    18.40    99.00    99.00
10  9 14 24    15.0 1   280.0     2.60    17.60    99.00    99.00
10  9 15  1    15.0 1   274.0     2.10    17.10    99.00    99.00
10  9 15  2    15.0 1   262.0     2.10    16.60    99.00    99.00
10  9 15  3    15.0 1   271.0     1.50    16.10    99.00    99.00
10  9 15  4    15.0 1   296.0     1.50    15.60    99.00    99.00
10  9 15  5    15.0 1   307.0     2.10    15.30    99.00    99.00
10  9 15  6    15.0 1   311.0     1.50    14.90    99.00    99.00
10  9 15  7    15.0 1   276.0     1.00    14.80    99.00    99.00
10  9 15  8    15.0 1   331.0     1.50    16.90    99.00    99.00
10  9 15  9    15.0 1     0.0     0.00    18.60    99.00    99.00
10  9 15 10    15.0 1     0.0     0.00    20.40    99.00    99.00
10  9 15 11    15.0 1     0.0     0.00    22.10    99.00    99.00
10  9 15 12    15.0 1     0.0     0.00    23.80    99.00    99.00
10  9 15 13    15.0 1     0.0     0.00    25.10    99.00    99.00
10  9 15 14    15.0 1   332.0     0.50    26.00    99.00    99.00
10  9 15 15    15.0 1   348.0     1.50    26.50    99.00    99.00
10  9 15 16    15.0 1   360.0     2.10    26.60    99.00    99.00
10  9 15 17    15.0 1    12.0     2.10    26.40    99.00    99.00
10  9 15 18    15.0 1    12.0     2.60    25.60    99.00    99.00
10  9 15 19    15.0 1    21.0     2.60    24.40    99.00    99.00
10  9 15 20    15.0 1    19.0     2.10    23.10    99.00    99.00
10  9 15 21    15.0 1   358.0     0.50    22.00    99.00    99.00
10  9 15 22    15.0 1   280.0     1.00    20.60    99.00    99.00
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10  9 15 23    15.0 1   305.0     1.00    19.60    99.00    99.00
10  9 15 24    15.0 1   330.0     1.50    18.90    99.00    99.00
10  9 16  1    15.0 1   352.0     3.60    18.10    99.00    99.00
10  9 16  2    15.0 1     8.0     3.10    17.50    99.00    99.00
10  9 16  3    15.0 1     8.0     2.60    16.80    99.00    99.00
10  9 16  4    15.0 1     6.0     1.50    16.10    99.00    99.00
10  9 16  5    15.0 1   352.0     0.50    15.50    99.00    99.00
10  9 16  6    15.0 1     0.0     0.00    15.10    99.00    99.00
10  9 16  7    15.0 1     0.0     0.00    14.90    99.00    99.00
10  9 16  8    15.0 1    10.0     0.50    16.40    99.00    99.00
10  9 16  9    15.0 1     0.0     0.00    18.40    99.00    99.00
10  9 16 10    15.0 1     0.0     0.00    20.10    99.00    99.00
10  9 16 11    15.0 1     0.0     0.00    22.00    99.00    99.00
10  9 16 12    15.0 1     0.0     0.00    23.50    99.00    99.00
10  9 16 13    15.0 1   333.0     0.50    24.90    99.00    99.00
10  9 16 14    15.0 1   355.0     1.00    26.00    99.00    99.00
10  9 16 15    15.0 1     1.0     1.50    26.60    99.00    99.00
10  9 16 16    15.0 1    12.0     2.10    26.90    99.00    99.00
10  9 16 17    15.0 1    29.0     2.10    26.60    99.00    99.00
10  9 16 18    15.0 1    54.0     2.10    25.90    99.00    99.00
10  9 16 19    15.0 1    64.0     1.50    24.50    99.00    99.00
10  9 16 20    15.0 1    80.0     0.50    23.00    99.00    99.00
10  9 16 21    15.0 1     0.0     0.00    21.60    99.00    99.00
10  9 16 22    15.0 1     0.0     0.00    20.40    99.00    99.00
10  9 16 23    15.0 1   277.0     0.50    19.40    99.00    99.00
10  9 16 24    15.0 1   304.0     0.50    18.60    99.00    99.00
10  9 17  1    15.0 1   319.0     0.50    18.00    99.00    99.00
10  9 17  2    15.0 1   343.0     1.50    17.60    99.00    99.00
10  9 17  3    15.0 1   348.0     2.10    17.30    99.00    99.00
10  9 17  4    15.0 1   352.0     1.50    16.80    99.00    99.00
10  9 17  5    15.0 1   330.0     1.00    16.10    99.00    99.00
10  9 17  6    15.0 1   312.0     1.00    15.60    99.00    99.00
10  9 17  7    15.0 1   325.0     1.00    15.60    99.00    99.00
10  9 17  8    15.0 1   350.0     1.50    16.00    99.00    99.00
10  9 17  9    15.0 1     2.0     0.50    16.10    99.00    99.00
10  9 17 10    15.0 1     0.0     0.00    16.90    99.00    99.00
10  9 17 11    15.0 1     0.0     0.00    19.60    99.00    99.00
10  9 17 12    15.0 1     0.0     0.00    22.50    99.00    99.00
10  9 17 13    15.0 1     0.0     0.00    24.40    99.00    99.00
10  9 17 14    15.0 1   354.0     0.50    25.80    99.00    99.00
10  9 17 15    15.0 1   360.0     1.00    26.60    99.00    99.00
10  9 17 16    15.0 1     0.0     0.00    27.60    99.00    99.00
10  9 17 17    15.0 1    25.0     2.10    27.40    99.00    99.00
10  9 17 18    15.0 1    25.0     3.10    26.60    99.00    99.00
10  9 17 19    15.0 1    26.0     3.10    25.30    99.00    99.00
10  9 17 20    15.0 1    16.0     1.00    24.10    99.00    99.00
10  9 17 21    15.0 1   258.0     1.00    23.00    99.00    99.00
10  9 17 22    15.0 1   277.0     3.10    21.90    99.00    99.00
10  9 17 23    15.0 1   307.0     4.10    20.80    99.00    99.00
10  9 17 24    15.0 1   338.0     4.10    19.50    99.00    99.00
10  9 18  1    15.0 1   349.0     3.10    18.60    99.00    99.00
10  9 18  2    15.0 1   350.0     2.60    18.10    99.00    99.00
10  9 18  3    15.0 1   349.0     2.10    17.50    99.00    99.00
10  9 18  4    15.0 1     0.0     0.00    17.00    99.00    99.00
10  9 18  5    15.0 1     7.0     2.10    16.90    99.00    99.00
10  9 18  6    15.0 1    21.0     1.50    17.10    99.00    99.00
10  9 18  7    15.0 1    19.0     1.00    17.40    99.00    99.00
10  9 18  8    15.0 1    17.0     0.50    17.60    99.00    99.00
10  9 18  9    15.0 1    15.0     1.50    17.90    99.00    99.00
10  9 18 10    15.0 1   350.0     1.50    18.10    99.00    99.00
10  9 18 11    15.0 1   332.0     0.50    19.10    99.00    99.00
10  9 18 12    15.0 1     0.0     0.00    21.60    99.00    99.00
10  9 18 13    15.0 1   319.0     0.50    23.40    99.00    99.00
10  9 18 14    15.0 1   346.0     0.50    24.60    99.00    99.00
10  9 18 15    15.0 1    10.0     1.00    25.50    99.00    99.00
10  9 18 16    15.0 1     8.0     1.50    25.80    99.00    99.00
10  9 18 17    15.0 1    38.0     2.10    25.80    99.00    99.00
10  9 18 18    15.0 1    54.0     3.10    25.00    99.00    99.00
10  9 18 19    15.0 1    56.0     2.60    23.80    99.00    99.00
10  9 18 20    15.0 1   349.0     0.50    22.80    99.00    99.00
10  9 18 21    15.0 1   266.0     4.10    21.10    99.00    99.00
10  9 18 22    15.0 1   277.0     4.10    18.80    99.00    99.00
10  9 18 23    15.0 1   278.0     3.60    17.60    99.00    99.00
10  9 18 24    15.0 1   299.0     2.60    16.90    99.00    99.00
10  9 19  1    15.0 1   322.0     2.60    16.60    99.00    99.00
10  9 19  2    15.0 1   311.0     2.60    16.30    99.00    99.00
10  9 19  3    15.0 1   310.0     2.60    16.10    99.00    99.00
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```
10  9 19  4    15.0 1   314.0     2.10    15.80    99.00    99.00
10  9 19  5    15.0 1   325.0     2.10    15.50    99.00    99.00
10  9 19  6    15.0 1   322.0     2.10    15.10    99.00    99.00
10  9 19  7    15.0 1   307.0     1.50    15.10    99.00    99.00
10  9 19  8    15.0 1   322.0     1.50    15.80    99.00    99.00
10  9 19  9    15.0 1   328.0     1.00    16.30    99.00    99.00
10  9 19 10    15.0 1     0.0     0.00    17.10    99.00    99.00
10  9 19 11    15.0 1    78.0     0.50    18.90    99.00    99.00
10  9 19 12    15.0 1     0.0     0.00    21.80    99.00    99.00
10  9 19 13    15.0 1     0.0     0.00    23.60    99.00    99.00
10  9 19 14    15.0 1     0.0     0.00    25.00    99.00    99.00
10  9 19 15    15.0 1   325.0     0.50    25.80    99.00    99.00
10  9 19 16    15.0 1   354.0     1.00    26.10    99.00    99.00
10  9 19 17    15.0 1     9.0     1.50    26.10    99.00    99.00
10  9 19 18    15.0 1    16.0     3.10    25.30    99.00    99.00
10  9 19 19    15.0 1    25.0     3.60    23.90    99.00    99.00
10  9 19 20    15.0 1     7.0     2.60    22.80    99.00    99.00
10  9 19 21    15.0 1   330.0     2.10    21.80    99.00    99.00
10  9 19 22    15.0 1   335.0     4.10    20.10    99.00    99.00
10  9 19 23    15.0 1   341.0     3.60    18.40    99.00    99.00
10  9 19 24    15.0 1   333.0     3.10    17.60    99.00    99.00
10  9 20  1    15.0 1   330.0     2.60    17.10    99.00    99.00
10  9 20  2    15.0 1   307.0     2.10    16.90    99.00    99.00
10  9 20  3    15.0 1   290.0     1.50    16.50    99.00    99.00
10  9 20  4    15.0 1   280.0     1.00    16.10    99.00    99.00
10  9 20  5    15.0 1   279.0     1.50    15.80    99.00    99.00
10  9 20  6    15.0 1   281.0     2.60    15.50    99.00    99.00
10  9 20  7    15.0 1   279.0     2.60    15.60    99.00    99.00
10  9 20  8    15.0 1   277.0     2.60    16.10    99.00    99.00
10  9 20  9    15.0 1   295.0     2.60    16.90    99.00    99.00
10  9 20 10    15.0 1   299.0     2.60    17.60    99.00    99.00
10  9 20 11    15.0 1   286.0     1.50    18.60    99.00    99.00
10  9 20 12    15.0 1   294.0     1.50    19.10    99.00    99.00
10  9 20 13    15.0 1   310.0     0.50    21.10    99.00    99.00
10  9 20 14    15.0 1   309.0     0.50    22.80    99.00    99.00
10  9 20 15    15.0 1   330.0     1.00    23.60    99.00    99.00
10  9 20 16    15.0 1   353.0     1.50    24.00    99.00    99.00
10  9 20 17    15.0 1    22.0     1.00    24.10    99.00    99.00
10  9 20 18    15.0 1    55.0     1.00    23.60    99.00    99.00
10  9 20 19    15.0 1    84.0     0.50    22.50    99.00    99.00
10  9 20 20    15.0 1   121.0     0.50    21.10    99.00    99.00
10  9 20 21    15.0 1   157.0     1.00    19.80    99.00    99.00
10  9 20 22    15.0 1   167.0     1.50    18.60    99.00    99.00
10  9 20 23    15.0 1   157.0     1.00    18.00    99.00    99.00
10  9 20 24    15.0 1   130.0     1.00    17.40    99.00    99.00
10  9 21  1    15.0 1   126.0     1.00    16.60    99.00    99.00
10  9 21  2    15.0 1   129.0     0.50    16.10    99.00    99.00
10  9 21  3    15.0 1   317.0     0.50    15.50    99.00    99.00
10  9 21  4    15.0 1   318.0     1.50    15.10    99.00    99.00
10  9 21  5    15.0 1   329.0     2.10    14.50    99.00    99.00
10  9 21  6    15.0 1   352.0     2.60    13.50    99.00    99.00
10  9 21  7    15.0 1     7.0     2.60    13.10    99.00    99.00
10  9 21  8    15.0 1     0.0     0.00    14.40    99.00    99.00
10  9 21  9    15.0 1    68.0     0.50    16.10    99.00    99.00
10  9 21 10    15.0 1     0.0     0.00    18.60    99.00    99.00
10  9 21 11    15.0 1     0.0     0.00    20.60    99.00    99.00
10  9 21 12    15.0 1     0.0     0.00    22.10    99.00    99.00
10  9 21 13    15.0 1   319.0     0.50    23.50    99.00    99.00
10  9 21 14    15.0 1   327.0     1.00    24.30    99.00    99.00
10  9 21 15    15.0 1   353.0     1.50    24.90    99.00    99.00
10  9 21 16    15.0 1     0.0     0.00    24.90    99.00    99.00
10  9 21 17    15.0 1     8.0     2.60    24.40    99.00    99.00
10  9 21 18    15.0 1    22.0     3.60    23.10    99.00    99.00
10  9 21 19    15.0 1     0.0     0.00    22.00    99.00    99.00
10  9 21 20    15.0 1   292.0     3.10    21.10    99.00    99.00
10  9 21 21    15.0 1   275.0     5.10    19.50    99.00    99.00
10  9 21 22    15.0 1   295.0     5.10    17.80    99.00    99.00
10  9 21 23    15.0 1   293.0     4.10    16.60    99.00    99.00
10  9 21 24    15.0 1   289.0     3.10    15.50    99.00    99.00
10  9 22  1    15.0 1   300.0     2.60    14.90    99.00    99.00
10  9 22  2    15.0 1   302.0     2.60    14.50    99.00    99.00
10  9 22  3    15.0 1   294.0     2.10    14.60    99.00    99.00
10  9 22  4    15.0 1   285.0     2.10    14.80    99.00    99.00
10  9 22  5    15.0 1   281.0     2.10    14.80    99.00    99.00
10  9 22  6    15.0 1   305.0     2.10    14.80    99.00    99.00
10  9 22  7    15.0 1   306.0     2.10    14.60    99.00    99.00
10  9 22  8    15.0 1   331.0     2.60    14.60    99.00    99.00
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10  9 22  9    15.0 1   344.0     1.50    15.00    99.00    99.00
10  9 22 10    15.0 1   302.0     0.50    15.60    99.00    99.00
10  9 22 11    15.0 1     0.0     0.00    17.10    99.00    99.00
10  9 22 12    15.0 1     0.0     0.00    18.60    99.00    99.00
10  9 22 13    15.0 1     0.0     0.00    20.00    99.00    99.00
10  9 22 14    15.0 1     0.0     0.00    20.80    99.00    99.00
10  9 22 15    15.0 1    12.0     2.10    21.30    99.00    99.00
10  9 22 16    15.0 1    10.0     3.10    22.10    99.00    99.00
10  9 22 17    15.0 1     6.0     2.10    22.00    99.00    99.00
10  9 22 18    15.0 1    21.0     2.60    21.40    99.00    99.00
10  9 22 19    15.0 1    41.0     3.10    20.00    99.00    99.00
10  9 22 20    15.0 1    60.0     2.10    18.60    99.00    99.00
10  9 22 21    15.0 1    78.0     1.00    17.90    99.00    99.00
10  9 22 22    15.0 1   150.0     0.50    17.30    99.00    99.00
10  9 22 23    15.0 1   237.0     0.50    16.60    99.00    99.00
10  9 22 24    15.0 1     0.0     0.00    16.00    99.00    99.00
10  9 23  1    15.0 1   122.0     0.50    15.40    99.00    99.00
10  9 23  2    15.0 1   115.0     0.50    15.00    99.00    99.00
10  9 23  3    15.0 1    98.0     0.50    14.60    99.00    99.00
10  9 23  4    15.0 1    98.0     0.50    14.10    99.00    99.00
10  9 23  5    15.0 1   114.0     0.50    13.80    99.00    99.00
10  9 23  6    15.0 1   136.0     0.50    13.50    99.00    99.00
10  9 23  7    15.0 1   193.0     0.50    13.10    99.00    99.00
10  9 23  8    15.0 1     0.0     0.00    15.10    99.00    99.00
10  9 23  9    15.0 1     0.0     0.00    17.40    99.00    99.00
10  9 23 10    15.0 1     0.0     0.00    19.10    99.00    99.00
10  9 23 11    15.0 1     0.0     0.00    21.10    99.00    99.00
10  9 23 12    15.0 1   336.0     0.50    22.60    99.00    99.00
10  9 23 13    15.0 1   346.0     1.00    23.90    99.00    99.00
10  9 23 14    15.0 1     0.0     0.00    24.80    99.00    99.00
10  9 23 15    15.0 1     6.0     2.10    25.30    99.00    99.00
10  9 23 16    15.0 1    10.0     2.60    25.50    99.00    99.00
10  9 23 17    15.0 1    15.0     2.10    25.30    99.00    99.00
10  9 23 18    15.0 1    21.0     2.10    24.50    99.00    99.00
10  9 23 19    15.0 1    34.0     0.50    23.10    99.00    99.00
10  9 23 20    15.0 1     0.0     0.00    21.80    99.00    99.00
10  9 23 21    15.0 1     0.0     0.00    20.60    99.00    99.00
10  9 23 22    15.0 1     0.0     0.00    19.50    99.00    99.00
10  9 23 23    15.0 1     0.0     0.00    18.60    99.00    99.00
10  9 23 24    15.0 1     0.0     0.00    17.80    99.00    99.00
10  9 24  1    15.0 1     0.0     0.00    17.10    99.00    99.00
10  9 24  2    15.0 1     0.0     0.00    16.60    99.00    99.00
10  9 24  3    15.0 1     0.0     0.00    16.10    99.00    99.00
10  9 24  4    15.0 1   341.0     0.50    15.80    99.00    99.00
10  9 24  5    15.0 1   338.0     1.00    15.50    99.00    99.00
10  9 24  6    15.0 1   331.0     0.50    15.10    99.00    99.00
10  9 24  7    15.0 1   307.0     0.50    15.00    99.00    99.00
10  9 24  8    15.0 1   330.0     1.00    16.80    99.00    99.00
10  9 24  9    15.0 1     0.0     0.00    19.00    99.00    99.00
10  9 24 10    15.0 1     0.0     0.00    21.60    99.00    99.00
10  9 24 11    15.0 1     0.0     0.00    23.90    99.00    99.00
10  9 24 12    15.0 1     0.0     0.00    25.60    99.00    99.00
10  9 24 13    15.0 1     0.0     0.00    27.30    99.00    99.00
10  9 24 14    15.0 1     7.0     0.50    28.50    99.00    99.00
10  9 24 15    15.0 1    14.0     1.50    29.10    99.00    99.00
10  9 24 16    15.0 1    16.0     2.60    29.10    99.00    99.00
10  9 24 17    15.0 1    18.0     2.60    28.50    99.00    99.00
10  9 24 18    15.0 1    21.0     3.10    27.40    99.00    99.00
10  9 24 19    15.0 1     6.0     1.50    25.90    99.00    99.00
10  9 24 20    15.0 1   296.0     0.50    24.50    99.00    99.00
10  9 24 21    15.0 1   278.0     1.00    23.10    99.00    99.00
10  9 24 22    15.0 1   301.0     1.00    22.00    99.00    99.00
10  9 24 23    15.0 1   346.0     1.00    21.00    99.00    99.00
10  9 24 24    15.0 1     6.0     0.50    20.10    99.00    99.00
10  9 25  1    15.0 1   337.0     0.50    19.60    99.00    99.00
10  9 25  2    15.0 1   300.0     0.50    19.10    99.00    99.00
10  9 25  3    15.0 1   287.0     1.50    18.80    99.00    99.00
10  9 25  4    15.0 1   294.0     2.60    18.50    99.00    99.00
10  9 25  5    15.0 1   302.0     2.60    18.10    99.00    99.00
10  9 25  6    15.0 1   297.0     2.10    17.80    99.00    99.00
10  9 25  7    15.0 1   286.0     1.50    17.60    99.00    99.00
10  9 25  8    15.0 1   319.0     2.10    19.40    99.00    99.00
10  9 25  9    15.0 1   299.0     1.50    21.30    99.00    99.00
10  9 25 10    15.0 1   294.0     0.50    23.60    99.00    99.00
10  9 25 11    15.0 1   304.0     0.50    26.10    99.00    99.00
10  9 25 12    15.0 1   316.0     0.50    27.90    99.00    99.00
10  9 25 13    15.0 1   348.0     1.00    29.30    99.00    99.00
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10  9 25 14    15.0 1    15.0     1.50    30.10    99.00    99.00
10  9 25 15    15.0 1    11.0     2.60    30.60    99.00    99.00
10  9 25 16    15.0 1    12.0     2.60    30.30    99.00    99.00
10  9 25 17    15.0 1    11.0     2.10    29.80    99.00    99.00
10  9 25 18    15.0 1     0.0     0.00    28.60    99.00    99.00
10  9 25 19    15.0 1   328.0     1.00    27.10    99.00    99.00
10  9 25 20    15.0 1   270.0     0.50    25.60    99.00    99.00
10  9 25 21    15.0 1   287.0     1.00    24.30    99.00    99.00
10  9 25 22    15.0 1   311.0     1.50    23.40    99.00    99.00
10  9 25 23    15.0 1   318.0     1.50    22.60    99.00    99.00
10  9 25 24    15.0 1   318.0     2.10    21.90    99.00    99.00
10  9 26  1    15.0 1   307.0     1.50    21.10    99.00    99.00
10  9 26  2    15.0 1   292.0     1.50    20.30    99.00    99.00
10  9 26  3    15.0 1   275.0     1.00    19.60    99.00    99.00
10  9 26  4    15.0 1   281.0     0.50    19.10    99.00    99.00
10  9 26  5    15.0 1   308.0     0.50    18.60    99.00    99.00
10  9 26  6    15.0 1     0.0     0.00    18.10    99.00    99.00
10  9 26  7    15.0 1     0.0     0.00    17.80    99.00    99.00
10  9 26  8    15.0 1   334.0     1.00    19.30    99.00    99.00
10  9 26  9    15.0 1     0.0     0.00    21.10    99.00    99.00
10  9 26 10    15.0 1     0.0     0.00    23.50    99.00    99.00
10  9 26 11    15.0 1     0.0     0.00    25.80    99.00    99.00
10  9 26 12    15.0 1     0.0     0.00    27.40    99.00    99.00
10  9 26 13    15.0 1   333.0     0.50    28.80    99.00    99.00
10  9 26 14    15.0 1   341.0     1.00    29.60    99.00    99.00
10  9 26 15    15.0 1     5.0     1.50    30.30    99.00    99.00
10  9 26 16    15.0 1     4.0     2.10    30.30    99.00    99.00
10  9 26 17    15.0 1     0.0     0.00    29.90    99.00    99.00
10  9 26 18    15.0 1     0.0     0.00    28.60    99.00    99.00
10  9 26 19    15.0 1     0.0     0.00    27.10    99.00    99.00
10  9 26 20    15.0 1   247.0     0.50    25.60    99.00    99.00
10  9 26 21    15.0 1     0.0     0.00    24.30    99.00    99.00
10  9 26 22    15.0 1     0.0     0.00    23.10    99.00    99.00
10  9 26 23    15.0 1     0.0     0.00    22.30    99.00    99.00
10  9 26 24    15.0 1     0.0     0.00    21.40    99.00    99.00
10  9 27  1    15.0 1   275.0     0.50    20.80    99.00    99.00
10  9 27  2    15.0 1   282.0     1.50    20.50    99.00    99.00
10  9 27  3    15.0 1   277.0     2.10    20.30    99.00    99.00
10  9 27  4    15.0 1   293.0     2.10    20.00    99.00    99.00
10  9 27  5    15.0 1   290.0     2.10    19.60    99.00    99.00
10  9 27  6    15.0 1   278.0     1.50    19.50    99.00    99.00
10  9 27  7    15.0 1   272.0     1.50    19.30    99.00    99.00
10  9 27  8    15.0 1   305.0     2.10    20.90    99.00    99.00
10  9 27  9    15.0 1   287.0     1.50    22.60    99.00    99.00
10  9 27 10    15.0 1   292.0     0.50    25.00    99.00    99.00
10  9 27 11    15.0 1     0.0     0.00    27.40    99.00    99.00
10  9 27 12    15.0 1     0.0     0.00    29.50    99.00    99.00
10  9 27 13    15.0 1   344.0     0.50    31.30    99.00    99.00
10  9 27 14    15.0 1     0.0     0.00    32.40    99.00    99.00
10  9 27 15    15.0 1     8.0     1.50    32.80    99.00    99.00
10  9 27 16    15.0 1    23.0     2.10    33.10    99.00    99.00
10  9 27 17    15.0 1    22.0     2.60    32.40    99.00    99.00
10  9 27 18    15.0 1    11.0     2.60    31.40    99.00    99.00
10  9 27 19    15.0 1   354.0     1.50    30.10    99.00    99.00
10  9 27 20    15.0 1   293.0     0.50    28.90    99.00    99.00
10  9 27 21    15.0 1   248.0     1.00    27.60    99.00    99.00
10  9 27 22    15.0 1   281.0     1.00    26.60    99.00    99.00
10  9 27 23    15.0 1     0.0     0.00    25.80    99.00    99.00
10  9 27 24    15.0 1    98.0     0.50    24.90    99.00    99.00
10  9 28  1    15.0 1     0.0     0.00    24.10    99.00    99.00
10  9 28  2    15.0 1   318.0     0.50    23.60    99.00    99.00
10  9 28  3    15.0 1   292.0     1.00    23.10    99.00    99.00
10  9 28  4    15.0 1   291.0     1.50    22.90    99.00    99.00
10  9 28  5    15.0 1   283.0     2.10    22.60    99.00    99.00
10  9 28  6    15.0 1   287.0     2.10    22.40    99.00    99.00
10  9 28  7    15.0 1   295.0     2.60    22.30    99.00    99.00
10  9 28  8    15.0 1   312.0     2.10    23.90    99.00    99.00
10  9 28  9    15.0 1   286.0     1.00    25.80    99.00    99.00
10  9 28 10    15.0 1     0.0     0.00    28.10    99.00    99.00
10  9 28 11    15.0 1     0.0     0.00    30.50    99.00    99.00
10  9 28 12    15.0 1     0.0     0.00    32.40    99.00    99.00
10  9 28 13    15.0 1     0.0     0.00    33.80    99.00    99.00
10  9 28 14    15.0 1   294.0     0.50    34.60    99.00    99.00
10  9 28 15    15.0 1   299.0     0.50    34.90    99.00    99.00
10  9 28 16    15.0 1   326.0     1.00    34.80    99.00    99.00
10  9 28 17    15.0 1   358.0     1.50    34.10    99.00    99.00
10  9 28 18    15.0 1     9.0     2.10    32.80    99.00    99.00
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10  9 28 19    15.0 1   346.0     0.50    31.30    99.00    99.00
10  9 28 20    15.0 1   249.0     1.50    29.90    99.00    99.00
10  9 28 21    15.0 1   271.0     4.10    29.10    99.00    99.00
10  9 28 22    15.0 1   298.0     4.10    27.90    99.00    99.00
10  9 28 23    15.0 1   326.0     4.10    26.60    99.00    99.00
10  9 28 24    15.0 1   353.0     4.60    25.40    99.00    99.00
10  9 29  1    15.0 1   353.0     4.10    24.30    99.00    99.00
10  9 29  2    15.0 1   348.0     3.60    24.10    99.00    99.00
10  9 29  3    15.0 1   327.0     2.10    24.10    99.00    99.00
10  9 29  4    15.0 1   289.0     1.00    24.00    99.00    99.00
10  9 29  5    15.0 1   217.0     0.50    23.60    99.00    99.00
10  9 29  6    15.0 1   186.0     0.50    23.10    99.00    99.00
10  9 29  7    15.0 1   219.0     0.50    22.90    99.00    99.00
10  9 29  8    15.0 1   256.0     0.50    23.90    99.00    99.00
10  9 29  9    15.0 1   270.0     0.50    25.60    99.00    99.00
10  9 29 10    15.0 1   234.0     0.50    27.60    99.00    99.00
10  9 29 11    15.0 1   226.0     0.50    29.50    99.00    99.00
10  9 29 12    15.0 1     0.0     0.00    31.00    99.00    99.00
10  9 29 13    15.0 1     0.0     0.00    32.10    99.00    99.00
10  9 29 14    15.0 1    39.0     1.00    32.90    99.00    99.00
10  9 29 15    15.0 1    26.0     2.10    33.10    99.00    99.00
10  9 29 16    15.0 1    26.0     3.10    32.40    99.00    99.00
10  9 29 17    15.0 1    28.0     3.60    30.90    99.00    99.00
10  9 29 18    15.0 1    32.0     3.60    29.40    99.00    99.00
10  9 29 19    15.0 1     0.0     0.00    28.60    99.00    99.00
10  9 29 20    15.0 1   249.0     2.60    27.80    99.00    99.00
10  9 29 21    15.0 1   265.0     4.10    27.60    99.00    99.00
10  9 29 22    15.0 1   282.0     3.60    27.10    99.00    99.00
10  9 29 23    15.0 1   341.0     2.60    26.50    99.00    99.00
10  9 29 24    15.0 1    52.0     3.10    25.60    99.00    99.00
10  9 30  1    15.0 1    72.0     4.10    25.00    99.00    99.00
10  9 30  2    15.0 1    75.0     3.10    24.60    99.00    99.00
10  9 30  3    15.0 1    53.0     1.00    24.30    99.00    99.00
10  9 30  4    15.0 1     0.0     0.00    23.90    99.00    99.00
10  9 30  5    15.0 1   229.0     0.50    23.50    99.00    99.00
10  9 30  6    15.0 1    53.0     0.50    23.10    99.00    99.00
10  9 30  7    15.0 1     0.0     0.00    22.80    99.00    99.00
10  9 30  8    15.0 1   286.0     0.50    23.00    99.00    99.00
10  9 30  9    15.0 1   295.0     1.50    24.90    99.00    99.00
10  9 30 10    15.0 1   286.0     1.50    26.60    99.00    99.00
10  9 30 11    15.0 1   271.0     1.00    28.90    99.00    99.00
10  9 30 12    15.0 1     0.0     0.00    30.60    99.00    99.00
10  9 30 13    15.0 1     0.0     0.00    32.10    99.00    99.00
10  9 30 14    15.0 1    26.0     0.50    33.10    99.00    99.00
10  9 30 15    15.0 1    32.0     1.50    33.50    99.00    99.00
10  9 30 16    15.0 1    30.0     2.60    33.00    99.00    99.00
10  9 30 17    15.0 1    18.0     3.60    31.80    99.00    99.00
10  9 30 18    15.0 1    14.0     4.10    30.10    99.00    99.00
10  9 30 19    15.0 1   328.0     3.60    29.10    99.00    99.00
10  9 30 20    15.0 1   297.0     4.60    27.60    99.00    99.00
10  9 30 21    15.0 1   293.0     4.10    25.60    99.00    99.00
10  9 30 22    15.0 1   290.0     3.60    24.60    99.00    99.00
10  9 30 23    15.0 1   319.0     3.60    24.00    99.00    99.00
10  9 30 24    15.0 1     3.0     3.10    23.50    99.00    99.00
10 10  1  1    15.0 1   341.0     1.50    23.50    99.00    99.00
10 10  1  2    15.0 1   235.0     1.00    23.50    99.00    99.00
10 10  1  3    15.0 1   236.0     1.50    23.50    99.00    99.00
10 10  1  4    15.0 1   238.0     2.10    23.60    99.00    99.00
10 10  1  5    15.0 1   236.0     1.50    23.60    99.00    99.00
10 10  1  6    15.0 1   216.0     0.50    23.10    99.00    99.00
10 10  1  7    15.0 1    10.0     0.50    22.60    99.00    99.00
10 10  1  8    15.0 1    22.0     1.50    23.10    99.00    99.00
10 10  1  9    15.0 1    44.0     1.00    24.40    99.00    99.00
10 10  1 10    15.0 1   223.0     0.50    25.40    99.00    99.00
10 10  1 11    15.0 1   215.0     0.50    26.10    99.00    99.00
10 10  1 12    15.0 1     0.0     0.00    27.10    99.00    99.00
10 10  1 13    15.0 1     0.0     0.00    28.60    99.00    99.00
10 10  1 14    15.0 1     0.0     0.00    29.60    99.00    99.00
10 10  1 15    15.0 1   302.0     0.50    30.10    99.00    99.00
10 10  1 16    15.0 1     0.0     0.00    30.10    99.00    99.00
10 10  1 17    15.0 1    17.0     2.60    29.60    99.00    99.00
10 10  1 18    15.0 1    45.0     3.60    28.30    99.00    99.00
10 10  1 19    15.0 1    66.0     1.50    27.60    99.00    99.00
10 10  1 20    15.0 1   182.0     0.50    26.90    99.00    99.00
10 10  1 21    15.0 1   243.0     1.50    26.10    99.00    99.00
10 10  1 22    15.0 1   288.0     3.10    25.60    99.00    99.00
10 10  1 23    15.0 1   313.0     3.60    24.60    99.00    99.00
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10 10   1 24     15.0 1   335.0     3.60     23.80     99.00     99.00
10 10   2  1     15.0 1   337.0     3.10     23.10     99.00     99.00
10 10   2  2     15.0 1   317.0     3.10     22.80     99.00     99.00
10 10   2  3     15.0 1   296.0     3.10     22.50     99.00     99.00
10 10   2  4     15.0 1   295.0     2.60     22.10     99.00     99.00
10 10   2  5     15.0 1   292.0     2.10     21.80     99.00     99.00
10 10   2  6     15.0 1   298.0     1.50     21.40     99.00     99.00
10 10   2  7     15.0 1   307.0     1.00     21.00     99.00     99.00
10 10   2  8     15.0 1   339.0     1.50     21.90     99.00     99.00
10 10   2  9     15.0 1     0.0     0.00     23.60     99.00     99.00
10 10   2 10     15.0 1     0.0     0.00     25.60     99.00     99.00
10 10   2 11     15.0 1     0.0     0.00     27.30     99.00     99.00
10 10   2 12     15.0 1     0.0     0.00     28.90     99.00     99.00
10 10   2 13     15.0 1     0.0     0.00     30.10     99.00     99.00
10 10   2 14     15.0 1   317.0     0.50     31.10     99.00     99.00
10 10   2 15     15.0 1   315.0     0.50     31.80     99.00     99.00
10 10   2 16     15.0 1    12.0     1.50     30.80     99.00     99.00
10 10   2 17     15.0 1    16.0     2.60     30.10     99.00     99.00
10 10   2 18     15.0 1   342.0     3.10     29.10     99.00     99.00
10 10   2 19     15.0 1   295.0     5.10     27.00     99.00     99.00
10 10   2 20     15.0 1   294.0     4.10     23.60     99.00     99.00
10 10   2 21     15.0 1   286.0     3.60     22.10     99.00     99.00
10 10   2 22     15.0 1   314.0     3.10     21.40     99.00     99.00
10 10   2 23     15.0 1   332.0     3.10     20.90     99.00     99.00
10 10   2 24     15.0 1   348.0     3.10     20.40     99.00     99.00
10 10   3  1     15.0 1     6.0     3.10     19.90     99.00     99.00
10 10   3  2     15.0 1    19.0     3.10     19.40     99.00     99.00
10 10   3  3     15.0 1    22.0     3.60     18.90     99.00     99.00
10 10   3  4     15.0 1    22.0     3.60     18.30     99.00     99.00
10 10   3  5     15.0 1     0.0     0.00     17.80     99.00     99.00
10 10   3  6     15.0 1   346.0     3.60     17.30     99.00     99.00
10 10   3  7     15.0 1   349.0     3.10     17.10     99.00     99.00
10 10   3  8     15.0 1   338.0     2.60     18.90     99.00     99.00
10 10   3  9     15.0 1   350.0     2.10     20.60     99.00     99.00
10 10   3 10     15.0 1     5.0     1.50     22.60     99.00     99.00
10 10   3 11     15.0 1     2.0     0.50     24.40     99.00     99.00
10 10   3 12     15.0 1     0.0     0.00     25.60     99.00     99.00
10 10   3 13     15.0 1   305.0     0.50     26.90     99.00     99.00
10 10   3 14     15.0 1   306.0     0.50     27.60     99.00     99.00
10 10   3 15     15.0 1   334.0     1.50     28.10     99.00     99.00
10 10   3 16     15.0 1   345.0     2.60     28.10     99.00     99.00
10 10   3 17     15.0 1     3.0     3.10     27.60     99.00     99.00
10 10   3 18     15.0 1   327.0     4.10     26.10     99.00     99.00
10 10   3 19     15.0 1   295.0     4.60     23.40     99.00     99.00
10 10   3 20     15.0 1   282.0     4.10     20.80     99.00     99.00
10 10   3 21     15.0 1   289.0     4.10     19.50     99.00     99.00
10 10   3 22     15.0 1   302.0     3.10     18.60     99.00     99.00
10 10   3 23     15.0 1   304.0     2.60     18.10     99.00     99.00
10 10   3 24     15.0 1   307.0     2.10     17.50     99.00     99.00
10 10   4  1     15.0 1   298.0     3.10     16.60     99.00     99.00
10 10   4  2     15.0 1   293.0     4.10     15.90     99.00     99.00
10 10   4  3     15.0 1   290.0     3.60     15.40     99.00     99.00
10 10   4  4     15.0 1   286.0     3.60     15.10     99.00     99.00
10 10   4  5     15.0 1   288.0     3.60     15.10     99.00     99.00
10 10   4  6     15.0 1   277.0     3.10     15.30     99.00     99.00
10 10   4  7     15.0 1   264.0     2.60     15.40     99.00     99.00
10 10   4  8     15.0 1   239.0     2.60     15.60     99.00     99.00
10 10   4  9     15.0 1   244.0     2.10     16.50     99.00     99.00
10 10   4 10     15.0 1   268.0     2.60     17.10     99.00     99.00
10 10   4 11     15.0 1   268.0     1.50     17.60     99.00     99.00
10 10   4 12     15.0 1   286.0     0.50     18.10     99.00     99.00
10 10   4 13     15.0 1     0.0     0.00     18.50     99.00     99.00
10 10   4 14     15.0 1     0.0     0.00     19.50     99.00     99.00
10 10   4 15     15.0 1     0.0     0.00     20.10     99.00     99.00
10 10   4 16     15.0 1   352.0     1.00     20.50     99.00     99.00
10 10   4 17     15.0 1   312.0     1.00     20.30     99.00     99.00
10 10   4 18     15.0 1   262.0     3.10     19.00     99.00     99.00
10 10   4 19     15.0 1   258.0     5.10     16.60     99.00     99.00
10 10   4 20     15.0 1   271.0     5.10     15.10     99.00     99.00
10 10   4 21     15.0 1   269.0     4.60     14.40     99.00     99.00
10 10   4 22     15.0 1   272.0     3.60     14.00     99.00     99.00
10 10   4 23     15.0 1   257.0     3.10     13.90     99.00     99.00
10 10   4 24     15.0 1   237.0     2.10     13.90     99.00     99.00
10 10   5  1     15.0 1   178.0     1.50     13.80     99.00     99.00
10 10   5  2     15.0 1   155.0     2.10     13.60     99.00     99.00
10 10   5  3     15.0 1   124.0     2.60     13.60     99.00     99.00
10 10   5  4     15.0 1   118.0     3.10     13.40     99.00     99.00
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10 10   5   5     15.0 1   121.0      3.60     13.00     99.00     99.00
10 10   5   6     15.0 1   120.0      3.60     12.80     99.00     99.00
10 10   5   7     15.0 1   132.0      3.60     12.90     99.00     99.00
10 10   5   8     15.0 1   144.0      3.60     13.50     99.00     99.00
10 10   5   9     15.0 1   154.0      3.10     14.80     99.00     99.00
10 10   5  10     15.0 1   173.0      2.60     16.10     99.00     99.00
10 10   5  11     15.0 1   178.0      2.10     17.30     99.00     99.00
10 10   5  12     15.0 1   181.0      2.10     17.80     99.00     99.00
10 10   5  13     15.0 1   202.0      1.50     18.10     99.00     99.00
10 10   5  14     15.0 1   220.0      1.00     19.40     99.00     99.00
10 10   5  15     15.0 1   221.0      2.10     19.90     99.00     99.00
10 10   5  16     15.0 1   221.0      3.10     19.90     99.00     99.00
10 10   5  17     15.0 1   214.0      3.10     19.30     99.00     99.00
10 10   5  18     15.0 1   223.0      3.60     17.90     99.00     99.00
10 10   5  19     15.0 1   228.0      3.60     16.60     99.00     99.00
10 10   5  20     15.0 1   245.0      2.60     15.90     99.00     99.00
10 10   5  21     15.0 1   240.0      2.10     15.60     99.00     99.00
10 10   5  22     15.0 1   235.0      1.00     15.10     99.00     99.00
10 10   5  23     15.0 1     0.0      0.00     14.90     99.00     99.00
10 10   5  24     15.0 1    24.0      0.50     14.40     99.00     99.00
10 10   6   1     15.0 1   340.0      1.00     14.00     99.00     99.00
10 10   6   2     15.0 1   331.0      1.50     13.60     99.00     99.00
10 10   6   3     15.0 1   335.0      2.10     13.10     99.00     99.00
10 10   6   4     15.0 1   331.0      2.60     13.00     99.00     99.00
10 10   6   5     15.0 1   340.0      3.10     13.00     99.00     99.00
10 10   6   6     15.0 1   332.0      2.60     13.00     99.00     99.00
10 10   6   7     15.0 1   311.0      2.60     12.90     99.00     99.00
10 10   6   8     15.0 1   305.0      2.10     13.00     99.00     99.00
10 10   6   9     15.0 1   311.0      2.10     13.60     99.00     99.00
10 10   6  10     15.0 1   304.0      1.50     14.80     99.00     99.00
10 10   6  11     15.0 1   266.0      0.50     16.80     99.00     99.00
10 10   6  12     15.0 1   263.0      1.00     18.10     99.00     99.00
10 10   6  13     15.0 1   274.0      2.10     18.30     99.00     99.00
10 10   6  14     15.0 1   302.0      1.00     19.10     99.00     99.00
10 10   6  15     15.0 1   352.0      1.00     19.80     99.00     99.00
10 10   6  16     15.0 1   353.0      1.50     19.90     99.00     99.00
10 10   6  17     15.0 1   248.0      2.10     18.40     99.00     99.00
10 10   6  18     15.0 1   229.0      3.10     16.10     99.00     99.00
10 10   6  19     15.0 1   245.0      2.10     15.30     99.00     99.00
10 10   6  20     15.0 1   247.0      2.10     15.10     99.00     99.00
10 10   6  21     15.0 1   263.0      1.50     15.10     99.00     99.00
10 10   6  22     15.0 1   279.0      1.50     15.10     99.00     99.00
10 10   6  23     15.0 1   316.0      0.50     15.30     99.00     99.00
10 10   6  24     15.0 1    42.0      0.50     15.10     99.00     99.00
10 10   7   1     15.0 1    59.0      0.50     14.50     99.00     99.00
10 10   7   2     15.0 1    74.0      0.50     13.80     99.00     99.00
10 10   7   3     15.0 1     0.0      0.00     13.10     99.00     99.00
10 10   7   4     15.0 1     0.0      0.00     12.60     99.00     99.00
10 10   7   5     15.0 1   301.0      0.50     12.40     99.00     99.00
10 10   7   6     15.0 1   258.0      1.00     12.10     99.00     99.00
10 10   7   7     15.0 1   256.0      2.10     11.80     99.00     99.00
10 10   7   8     15.0 1   277.0      1.00     13.00     99.00     99.00
10 10   7   9     15.0 1     0.0      0.00     14.60     99.00     99.00
10 10   7  10     15.0 1     0.0      0.00     16.10     99.00     99.00
10 10   7  11     15.0 1     0.0      0.00     17.50     99.00     99.00
10 10   7  12     15.0 1     0.0      0.00     18.60     99.00     99.00
10 10   7  13     15.0 1     0.0      0.00     19.80     99.00     99.00
10 10   7  14     15.0 1     0.0      0.00     20.60     99.00     99.00
10 10   7  15     15.0 1   337.0      1.00     21.10     99.00     99.00
10 10   7  16     15.0 1     0.0      0.00     20.40     99.00     99.00
10 10   7  17     15.0 1    22.0      2.60     20.00     99.00     99.00
10 10   7  18     15.0 1    17.0      3.60     19.10     99.00     99.00
10 10   7  19     15.0 1    27.0      2.60     18.10     99.00     99.00
10 10   7  20     15.0 1    39.0      1.50     17.10     99.00     99.00
10 10   7  21     15.0 1    76.0      0.50     16.10     99.00     99.00
10 10   7  22     15.0 1     0.0      0.00     15.00     99.00     99.00
10 10   7  23     15.0 1   315.0      0.50     14.10     99.00     99.00
10 10   7  24     15.0 1   341.0      0.50     13.50     99.00     99.00
10 10   8   1     15.0 1    25.0      0.50     13.00     99.00     99.00
10 10   8   2     15.0 1     0.0      0.00     12.60     99.00     99.00
10 10   8   3     15.0 1   270.0      0.50     12.40     99.00     99.00
10 10   8   4     15.0 1   281.0      1.50     12.10     99.00     99.00
10 10   8   5     15.0 1   276.0      1.50     12.00     99.00     99.00
10 10   8   6     15.0 1   285.0      1.50     11.60     99.00     99.00
10 10   8   7     15.0 1   291.0      1.50     11.50     99.00     99.00
10 10   8   8     15.0 1   319.0      1.50     13.10     99.00     99.00
10 10   8   9     15.0 1     0.0      0.00     15.10     99.00     99.00
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10 10  8 10    15.0 1     0.0     0.00    16.80    99.00    99.00
10 10  8 11    15.0 1     0.0     0.00    18.50    99.00    99.00
10 10  8 12    15.0 1     0.0     0.00    19.90    99.00    99.00
10 10  8 13    15.0 1     0.0     0.00    21.10    99.00    99.00
10 10  8 14    15.0 1   339.0     0.50    22.00    99.00    99.00
10 10  8 15    15.0 1   353.0     1.00    22.60    99.00    99.00
10 10  8 16    15.0 1     5.0     1.50    22.80    99.00    99.00
10 10  8 17    15.0 1     8.0     2.10    22.60    99.00    99.00
10 10  8 18    15.0 1    24.0     2.10    21.60    99.00    99.00
10 10  8 19    15.0 1    40.0     1.50    20.40    99.00    99.00
10 10  8 20    15.0 1    67.0     0.50    19.10    99.00    99.00
10 10  8 21    15.0 1     0.0     0.00    17.60    99.00    99.00
10 10  8 22    15.0 1     0.0     0.00    16.60    99.00    99.00
10 10  8 23    15.0 1   317.0     0.50    15.60    99.00    99.00
10 10  8 24    15.0 1   311.0     0.50    15.10    99.00    99.00
10 10  9  1    15.0 1     0.0     0.00    14.60    99.00    99.00
10 10  9  2    15.0 1   313.0     0.50    14.10    99.00    99.00
10 10  9  3    15.0 1   314.0     1.00    13.80    99.00    99.00
10 10  9  4    15.0 1   322.0     1.00    13.50    99.00    99.00
10 10  9  5    15.0 1   317.0     1.00    13.10    99.00    99.00
10 10  9  6    15.0 1   326.0     0.50    12.80    99.00    99.00
10 10  9  7    15.0 1     0.0     0.00    12.40    99.00    99.00
10 10  9  8    15.0 1     0.0     0.00    13.90    99.00    99.00
10 10  9  9    15.0 1     0.0     0.00    15.90    99.00    99.00
10 10  9 10    15.0 1     0.0     0.00    17.80    99.00    99.00
10 10  9 11    15.0 1     0.0     0.00    19.40    99.00    99.00
10 10  9 12    15.0 1     0.0     0.00    21.10    99.00    99.00
10 10  9 13    15.0 1   318.0     0.50    22.60    99.00    99.00
10 10  9 14    15.0 1   342.0     1.50    23.60    99.00    99.00
10 10  9 15    15.0 1   355.0     2.10    24.00    99.00    99.00
10 10  9 16    15.0 1     5.0     2.60    24.00    99.00    99.00
10 10  9 17    15.0 1     0.0     0.00    23.60    99.00    99.00
10 10  9 18    15.0 1    17.0     2.10    22.60    99.00    99.00
10 10  9 19    15.0 1    51.0     1.00    21.30    99.00    99.00
10 10  9 20    15.0 1     0.0     0.00    19.90    99.00    99.00
10 10  9 21    15.0 1     0.0     0.00    18.60    99.00    99.00
10 10  9 22    15.0 1    86.0     0.50    17.60    99.00    99.00
10 10  9 23    15.0 1     0.0     0.00    16.60    99.00    99.00
10 10  9 24    15.0 1   274.0     0.50    16.10    99.00    99.00
10 10 10  1    15.0 1   259.0     1.00    15.80    99.00    99.00
10 10 10  2    15.0 1   249.0     1.00    15.60    99.00    99.00
10 10 10  3    15.0 1   234.0     1.00    15.50    99.00    99.00
10 10 10  4    15.0 1   231.0     1.00    15.30    99.00    99.00
10 10 10  5    15.0 1   229.0     1.50    15.30    99.00    99.00
10 10 10  6    15.0 1   232.0     1.50    15.60    99.00    99.00
10 10 10  7    15.0 1   233.0     1.50    15.90    99.00    99.00
10 10 10  8    15.0 1   242.0     1.50    16.10    99.00    99.00
10 10 10  9    15.0 1   256.0     1.50    16.80    99.00    99.00
10 10 10 10    15.0 1   312.0     1.50    18.60    99.00    99.00
10 10 10 11    15.0 1   285.0     0.50    20.30    99.00    99.00
10 10 10 12    15.0 1   277.0     0.50    22.10    99.00    99.00
10 10 10 13    15.0 1     0.0     0.00    23.30    99.00    99.00
10 10 10 14    15.0 1     0.0     0.00    24.40    99.00    99.00
10 10 10 15    15.0 1     0.0     0.00    25.30    99.00    99.00
10 10 10 16    15.0 1   104.0     0.50    25.60    99.00    99.00
10 10 10 17    15.0 1   138.0     1.50    25.30    99.00    99.00
10 10 10 18    15.0 1   162.0     3.10    23.90    99.00    99.00
10 10 10 19    15.0 1   175.0     3.60    22.10    99.00    99.00
10 10 10 20    15.0 1   170.0     4.10    20.90    99.00    99.00
10 10 10 21    15.0 1   172.0     3.60    20.40    99.00    99.00
10 10 10 22    15.0 1   165.0     2.60    19.60    99.00    99.00
10 10 10 23    15.0 1   148.0     1.00    18.90    99.00    99.00
10 10 10 24    15.0 1    85.0     0.50    18.00    99.00    99.00
10 10 11  1    15.0 1    54.0     0.50    17.10    99.00    99.00
10 10 11  2    15.0 1    45.0     0.50    16.60    99.00    99.00
10 10 11  3    15.0 1    19.0     0.50    16.40    99.00    99.00
10 10 11  4    15.0 1     0.0     0.00    16.00    99.00    99.00
10 10 11  5    15.0 1   284.0     0.50    15.60    99.00    99.00
10 10 11  6    15.0 1   282.0     1.00    15.60    99.00    99.00
10 10 11  7    15.0 1   247.0     1.00    15.60    99.00    99.00
10 10 11  8    15.0 1   220.0     1.00    15.90    99.00    99.00
10 10 11  9    15.0 1   219.0     1.00    17.30    99.00    99.00
10 10 11 10    15.0 1   241.0     0.50    19.60    99.00    99.00
10 10 11 11    15.0 1     0.0     0.00    21.50    99.00    99.00
10 10 11 12    15.0 1     0.0     0.00    23.60    99.00    99.00
10 10 11 13    15.0 1     0.0     0.00    24.80    99.00    99.00
10 10 11 14    15.0 1   347.0     1.00    25.10    99.00    99.00
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10 10 11 15     15.0 1     10.0      1.50     25.30     99.00     99.00
10 10 11 16     15.0 1     19.0      2.60     24.90     99.00     99.00
10 10 11 17     15.0 1     20.0      2.60     24.00     99.00     99.00
10 10 11 18     15.0 1    355.0      1.50     23.10     99.00     99.00
10 10 11 19     15.0 1    254.0      0.50     22.10     99.00     99.00
10 10 11 20     15.0 1    226.0      0.50     21.40     99.00     99.00
10 10 11 21     15.0 1      0.0      0.00     20.60     99.00     99.00
10 10 11 22     15.0 1      0.0      0.00     20.10     99.00     99.00
10 10 11 23     15.0 1      0.0      0.00     19.60     99.00     99.00
10 10 11 24     15.0 1      0.0      0.00     19.00     99.00     99.00
10 10 12  1     15.0 1      0.0      0.00     18.60     99.00     99.00
10 10 12  2     15.0 1    312.0      1.00     18.40     99.00     99.00
10 10 12  3     15.0 1    306.0      1.50     18.10     99.00     99.00
10 10 12  4     15.0 1    306.0      2.60     17.90     99.00     99.00
10 10 12  5     15.0 1    298.0      3.10     17.60     99.00     99.00
10 10 12  6     15.0 1    305.0      2.60     17.40     99.00     99.00
10 10 12  7     15.0 1    290.0      2.10     17.10     99.00     99.00
10 10 12  8     15.0 1    284.0      1.50     18.10     99.00     99.00
10 10 12  9     15.0 1    293.0      1.50     20.60     99.00     99.00
10 10 12 10     15.0 1    273.0      1.00     23.00     99.00     99.00
10 10 12 11     15.0 1      0.0      0.00     25.30     99.00     99.00
10 10 12 12     15.0 1      0.0      0.00     27.50     99.00     99.00
10 10 12 13     15.0 1      0.0      0.00     28.80     99.00     99.00
10 10 12 14     15.0 1     17.0      1.00     29.60     99.00     99.00
10 10 12 15     15.0 1     25.0      1.50     30.00     99.00     99.00
10 10 12 16     15.0 1     23.0      2.60     30.10     99.00     99.00
10 10 12 17     15.0 1     33.0      3.60     28.90     99.00     99.00
10 10 12 18     15.0 1     26.0      4.10     27.50     99.00     99.00
10 10 12 19     15.0 1     39.0      3.60     26.60     99.00     99.00
10 10 12 20     15.0 1     47.0      2.10     25.60     99.00     99.00
10 10 12 21     15.0 1    121.0      1.00     24.50     99.00     99.00
10 10 12 22     15.0 1    178.0      1.50     23.60     99.00     99.00
10 10 12 23     15.0 1    188.0      1.00     22.80     99.00     99.00
10 10 12 24     15.0 1      0.0      0.00     21.60     99.00     99.00
10 10 13  1     15.0 1    343.0      1.00     20.40     99.00     99.00
10 10 13  2     15.0 1    352.0      1.00     19.60     99.00     99.00
10 10 13  3     15.0 1    322.0      0.50     19.30     99.00     99.00
10 10 13  4     15.0 1    290.0      1.00     18.80     99.00     99.00
10 10 13  5     15.0 1    288.0      1.50     18.40     99.00     99.00
10 10 13  6     15.0 1    277.0      1.50     17.90     99.00     99.00
10 10 13  7     15.0 1    281.0      1.50     17.40     99.00     99.00
10 10 13  8     15.0 1    304.0      1.00     18.10     99.00     99.00
10 10 13  9     15.0 1    296.0      1.00     21.40     99.00     99.00
10 10 13 10     15.0 1    308.0      1.00     23.50     99.00     99.00
10 10 13 11     15.0 1    316.0      0.50     25.60     99.00     99.00
10 10 13 12     15.0 1    345.0      0.50     27.60     99.00     99.00
10 10 13 13     15.0 1    358.0      1.00     28.80     99.00     99.00
10 10 13 14     15.0 1      0.0      0.00     29.50     99.00     99.00
10 10 13 15     15.0 1      8.0      2.60     29.60     99.00     99.00
10 10 13 16     15.0 1      6.0      2.60     29.00     99.00     99.00
10 10 13 17     15.0 1     24.0      3.60     28.00     99.00     99.00
10 10 13 18     15.0 1     26.0      4.10     26.60     99.00     99.00
10 10 13 19     15.0 1     26.0      3.10     25.60     99.00     99.00
10 10 13 20     15.0 1     65.0      2.10     24.50     99.00     99.00
10 10 13 21     15.0 1    121.0      2.10     23.40     99.00     99.00
10 10 13 22     15.0 1    164.0      2.10     22.50     99.00     99.00
10 10 13 23     15.0 1    170.0      1.50     21.80     99.00     99.00
10 10 13 24     15.0 1    164.0      1.00     21.10     99.00     99.00
10 10 14  1     15.0 1      0.0      0.00     20.10     99.00     99.00
10 10 14  2     15.0 1    311.0      0.50     18.90     99.00     99.00
10 10 14  3     15.0 1    322.0      1.50     17.60     99.00     99.00
10 10 14  4     15.0 1    324.0      2.10     16.60     99.00     99.00
10 10 14  5     15.0 1    291.0      1.00     16.10     99.00     99.00
10 10 14  6     15.0 1    249.0      1.00     15.80     99.00     99.00
10 10 14  7     15.0 1    255.0      1.00     15.50     99.00     99.00
10 10 14  8     15.0 1    290.0      0.50     16.40     99.00     99.00
10 10 14  9     15.0 1    268.0      0.50     20.10     99.00     99.00
10 10 14 10     15.0 1    284.0      0.50     22.40     99.00     99.00
10 10 14 11     15.0 1    295.0      0.50     24.80     99.00     99.00
10 10 14 12     15.0 1      0.0      0.00     26.60     99.00     99.00
10 10 14 13     15.0 1      0.0      0.00     28.30     99.00     99.00
10 10 14 14     15.0 1    355.0      0.50     29.10     99.00     99.00
10 10 14 15     15.0 1      6.0      1.00     29.60     99.00     99.00
10 10 14 16     15.0 1     30.0      1.50     29.30     99.00     99.00
10 10 14 17     15.0 1     32.0      3.10     28.50     99.00     99.00
10 10 14 18     15.0 1     29.0      3.10     27.00     99.00     99.00
10 10 14 19     15.0 1     12.0      1.00     25.60     99.00     99.00
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10 10 14 20     15.0 1    244.0      1.50     24.10     99.00     99.00
10 10 14 21     15.0 1    254.0      2.60     23.00     99.00     99.00
10 10 14 22     15.0 1    259.0      2.10     22.10     99.00     99.00
10 10 14 23     15.0 1    261.0      1.50     21.40     99.00     99.00
10 10 14 24     15.0 1    274.0      1.00     20.80     99.00     99.00
10 10 15  1     15.0 1    346.0      0.50     20.30     99.00     99.00
10 10 15  2     15.0 1     12.0      0.50     20.00     99.00     99.00
10 10 15  3     15.0 1      0.0      0.00     19.10     99.00     99.00
10 10 15  4     15.0 1    184.0      0.50     18.40     99.00     99.00
10 10 15  5     15.0 1    191.0      0.50     17.60     99.00     99.00
10 10 15  6     15.0 1    177.0      0.50     17.30     99.00     99.00
10 10 15  7     15.0 1    155.0      0.50     16.90     99.00     99.00
10 10 15  8     15.0 1      0.0      0.00     17.40     99.00     99.00
10 10 15  9     15.0 1    258.0      0.50     20.90     99.00     99.00
10 10 15 10     15.0 1      0.0      0.00     23.10     99.00     99.00
10 10 15 11     15.0 1      0.0      0.00     25.30     99.00     99.00
10 10 15 12     15.0 1      0.0      0.00     27.30     99.00     99.00
10 10 15 13     15.0 1      0.0      0.00     28.60     99.00     99.00
10 10 15 14     15.0 1      0.0      0.00     29.50     99.00     99.00
10 10 15 15     15.0 1     14.0      1.00     30.00     99.00     99.00
10 10 15 16     15.0 1     22.0      1.50     29.60     99.00     99.00
10 10 15 17     15.0 1     19.0      3.10     28.80     99.00     99.00
10 10 15 18     15.0 1     19.0      3.60     27.30     99.00     99.00
10 10 15 19     15.0 1      4.0      1.50     26.00     99.00     99.00
10 10 15 20     15.0 1    268.0      2.10     24.60     99.00     99.00
10 10 15 21     15.0 1    280.0      4.10     23.40     99.00     99.00
10 10 15 22     15.0 1    292.0      3.60     22.00     99.00     99.00
10 10 15 23     15.0 1    303.0      3.60     21.10     99.00     99.00
10 10 15 24     15.0 1    316.0      3.10     20.40     99.00     99.00
10 10 16  1     15.0 1     33.0      2.10     19.80     99.00     99.00
10 10 16  2     15.0 1     53.0      1.00     19.50     99.00     99.00
10 10 16  3     15.0 1    253.0      0.50     19.30     99.00     99.00
10 10 16  4     15.0 1    224.0      1.00     18.60     99.00     99.00
10 10 16  5     15.0 1    217.0      1.00     18.00     99.00     99.00
10 10 16  6     15.0 1    270.0      0.50     17.50     99.00     99.00
10 10 16  7     15.0 1      0.0      0.00     17.10     99.00     99.00
10 10 16  8     15.0 1      0.0      0.00     17.10     99.00     99.00
10 10 16  9     15.0 1      0.0      0.00     19.40     99.00     99.00
10 10 16 10     15.0 1      0.0      0.00     21.40     99.00     99.00
10 10 16 11     15.0 1      0.0      0.00     23.50     99.00     99.00
10 10 16 12     15.0 1      0.0      0.00     24.60     99.00     99.00
10 10 16 13     15.0 1    316.0      0.50     25.60     99.00     99.00
10 10 16 14     15.0 1    337.0      1.00     26.30     99.00     99.00
10 10 16 15     15.0 1      0.0      0.00     26.50     99.00     99.00
10 10 16 16     15.0 1      6.0      2.60     26.10     99.00     99.00
10 10 16 17     15.0 1     19.0      3.10     25.10     99.00     99.00
10 10 16 18     15.0 1     13.0      1.50     24.10     99.00     99.00
10 10 16 19     15.0 1    290.0      1.00     23.30     99.00     99.00
10 10 16 20     15.0 1    284.0      3.60     22.90     99.00     99.00
10 10 16 21     15.0 1    278.0      4.10     21.10     99.00     99.00
10 10 16 22     15.0 1    283.0      3.60     19.60     99.00     99.00
10 10 16 23     15.0 1    292.0      3.10     19.00     99.00     99.00
10 10 16 24     15.0 1    315.0      2.10     18.40     99.00     99.00
10 10 17  1     15.0 1    299.0      1.50     18.10     99.00     99.00
10 10 17  2     15.0 1    269.0      2.10     17.90     99.00     99.00
10 10 17  3     15.0 1    268.0      2.10     17.80     99.00     99.00
10 10 17  4     15.0 1    276.0      2.10     17.60     99.00     99.00
10 10 17  5     15.0 1    289.0      1.50     17.60     99.00     99.00
10 10 17  6     15.0 1    298.0      1.00     17.60     99.00     99.00
10 10 17  7     15.0 1    280.0      0.50     17.50     99.00     99.00
10 10 17  8     15.0 1    267.0      0.50     17.60     99.00     99.00
10 10 17  9     15.0 1    314.0      1.50     18.40     99.00     99.00
10 10 17 10     15.0 1    321.0      0.50     19.60     99.00     99.00
10 10 17 11     15.0 1      0.0      0.00     20.80     99.00     99.00
10 10 17 12     15.0 1      0.0      0.00     21.80     99.00     99.00
10 10 17 13     15.0 1    312.0      0.50     22.60     99.00     99.00
10 10 17 14     15.0 1    332.0      1.00     23.50     99.00     99.00
10 10 17 15     15.0 1    337.0      2.10     23.90     99.00     99.00
10 10 17 16     15.0 1    347.0      3.10     22.40     99.00     99.00
10 10 17 17     15.0 1     14.0      3.10     22.00     99.00     99.00
10 10 17 18     15.0 1     27.0      2.60     21.10     99.00     99.00
10 10 17 19     15.0 1    282.0      0.50     20.40     99.00     99.00
10 10 17 20     15.0 1    240.0      4.10     19.40     99.00     99.00
10 10 17 21     15.0 1    248.0      4.10     17.40     99.00     99.00
10 10 17 22     15.0 1    259.0      4.10     16.90     99.00     99.00
10 10 17 23     15.0 1    287.0      4.10     16.50     99.00     99.00
10 10 17 24     15.0 1    298.0      3.60     16.00     99.00     99.00
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10 10 18  1    15.0 1   298.0     2.60    15.40    99.00    99.00
10 10 18  2    15.0 1   303.0     1.50    14.90    99.00    99.00
10 10 18  3    15.0 1   304.0     1.00    14.40    99.00    99.00
10 10 18  4    15.0 1   311.0     1.50    14.10    99.00    99.00
10 10 18  5    15.0 1   318.0     1.50    13.80    99.00    99.00
10 10 18  6    15.0 1   323.0     1.50    13.40    99.00    99.00
10 10 18  7    15.0 1   322.0     1.50    13.00    99.00    99.00
10 10 18  8    15.0 1   335.0     2.10    13.10    99.00    99.00
10 10 18  9    15.0 1   342.0     1.00    14.40    99.00    99.00
10 10 18 10    15.0 1     0.0     0.00    15.90    99.00    99.00
10 10 18 11    15.0 1   283.0     0.50    17.40    99.00    99.00
10 10 18 12    15.0 1   282.0     0.50    18.60    99.00    99.00
10 10 18 13    15.0 1   298.0     1.00    19.80    99.00    99.00
10 10 18 14    15.0 1   310.0     1.50    20.60    99.00    99.00
10 10 18 15    15.0 1   324.0     1.50    21.00    99.00    99.00
10 10 18 16    15.0 1   326.0     2.10    21.10    99.00    99.00
10 10 18 17    15.0 1   338.0     2.10    20.90    99.00    99.00
10 10 18 18    15.0 1     0.0     0.00    20.10    99.00    99.00
10 10 18 19    15.0 1    15.0     1.50    19.30    99.00    99.00
10 10 18 20    15.0 1     0.0     0.00    18.10    99.00    99.00
10 10 18 21    15.0 1   255.0     1.00    17.10    99.00    99.00
10 10 18 22    15.0 1   256.0     1.50    16.40    99.00    99.00
10 10 18 23    15.0 1   246.0     1.00    15.60    99.00    99.00
10 10 18 24    15.0 1     0.0     0.00    15.10    99.00    99.00
10 10 19  1    15.0 1     0.0     0.00    14.40    99.00    99.00
10 10 19  2    15.0 1   244.0     0.50    13.90    99.00    99.00
10 10 19  3    15.0 1   268.0     0.50    13.60    99.00    99.00
10 10 19  4    15.0 1   278.0     1.00    13.40    99.00    99.00
10 10 19  5    15.0 1   294.0     1.00    13.10    99.00    99.00
10 10 19  6    15.0 1   298.0     1.00    12.90    99.00    99.00
10 10 19  7    15.0 1   304.0     0.50    12.80    99.00    99.00
10 10 19  8    15.0 1   306.0     1.00    13.60    99.00    99.00
10 10 19  9    15.0 1   304.0     0.50    15.50    99.00    99.00
10 10 19 10    15.0 1   256.0     0.50    17.30    99.00    99.00
10 10 19 11    15.0 1   262.0     1.00    18.90    99.00    99.00
10 10 19 12    15.0 1   284.0     1.00    20.30    99.00    99.00
10 10 19 13    15.0 1   301.0     1.00    21.60    99.00    99.00
10 10 19 14    15.0 1   333.0     1.50    22.50    99.00    99.00
10 10 19 15    15.0 1   338.0     2.10    23.00    99.00    99.00
10 10 19 16    15.0 1   348.0     2.10    23.10    99.00    99.00
10 10 19 17    15.0 1    18.0     2.10    22.80    99.00    99.00
10 10 19 18    15.0 1    61.0     1.00    21.90    99.00    99.00
10 10 19 19    15.0 1   152.0     1.00    21.00    99.00    99.00
10 10 19 20    15.0 1   204.0     1.50    20.10    99.00    99.00
10 10 19 21    15.0 1   219.0     2.10    19.60    99.00    99.00
10 10 19 22    15.0 1   253.0     3.10    18.50    99.00    99.00
10 10 19 23    15.0 1   272.0     2.60    17.60    99.00    99.00
10 10 19 24    15.0 1   266.0     1.50    17.30    99.00    99.00
10 10 20  1    15.0 1   266.0     1.00    17.10    99.00    99.00
10 10 20  2    15.0 1   230.0     0.50    17.00    99.00    99.00
10 10 20  3    15.0 1   250.0     1.00    16.60    99.00    99.00
10 10 20  4    15.0 1   246.0     1.50    16.10    99.00    99.00
10 10 20  5    15.0 1   274.0     1.50    15.80    99.00    99.00
10 10 20  6    15.0 1   280.0     1.50    15.50    99.00    99.00
10 10 20  7    15.0 1     0.0     0.00    15.30    99.00    99.00
10 10 20  8    15.0 1     0.0     0.00    15.10    99.00    99.00
10 10 20  9    15.0 1     0.0     0.00    17.00    99.00    99.00
10 10 20 10    15.0 1   187.0     1.50    19.00    99.00    99.00
10 10 20 11    15.0 1   184.0     2.10    20.80    99.00    99.00
10 10 20 12    15.0 1   176.0     1.50    22.10    99.00    99.00
10 10 20 13    15.0 1   179.0     1.00    23.50    99.00    99.00
10 10 20 14    15.0 1     0.0     0.00    24.60    99.00    99.00
10 10 20 15    15.0 1     0.0     0.00    25.10    99.00    99.00
10 10 20 16    15.0 1     0.0     0.00    24.90    99.00    99.00
10 10 20 17    15.0 1     0.0     0.00    23.60    99.00    99.00
10 10 20 18    15.0 1    21.0     4.60    21.80    99.00    99.00
10 10 20 19    15.0 1    28.0     3.60    20.60    99.00    99.00
10 10 20 20    15.0 1   276.0     1.50    20.10    99.00    99.00
10 10 20 21    15.0 1   266.0     4.60    18.60    99.00    99.00
10 10 20 22    15.0 1   299.0     3.60    17.60    99.00    99.00
10 10 20 23    15.0 1   315.0     3.10    17.10    99.00    99.00
10 10 20 24    15.0 1   327.0     3.10    16.40    99.00    99.00
10 10 21  1    15.0 1     0.0     0.00    15.80    99.00    99.00
10 10 21  2    15.0 1     8.0     2.60    15.30    99.00    99.00
10 10 21  3    15.0 1   360.0     2.10    14.60    99.00    99.00
10 10 21  4    15.0 1   339.0     1.50    14.10    99.00    99.00
10 10 21  5    15.0 1   331.0     1.50    13.60    99.00    99.00
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10 10 21  6    15.0 1  313.0     1.50    13.10    99.00    99.00
10 10 21  7    15.0 1  305.0     1.50    12.80    99.00    99.00
10 10 21  8    15.0 1  281.0     3.60    13.40    99.00    99.00
10 10 21  9    15.0 1  292.0     2.60    15.10    99.00    99.00
10 10 21 10    15.0 1  301.0     1.00    17.10    99.00    99.00
10 10 21 11    15.0 1  329.0     0.50    18.60    99.00    99.00
10 10 21 12    15.0 1  306.0     0.50    19.60    99.00    99.00
10 10 21 13    15.0 1  306.0     1.00    20.40    99.00    99.00
10 10 21 14    15.0 1  325.0     1.50    21.00    99.00    99.00
10 10 21 15    15.0 1  336.0     2.10    21.10    99.00    99.00
10 10 21 16    15.0 1  337.0     2.60    21.30    99.00    99.00
10 10 21 17    15.0 1  326.0     3.60    21.00    99.00    99.00
10 10 21 18    15.0 1  306.0     4.60    19.50    99.00    99.00
10 10 21 19    15.0 1  295.0     5.10    18.00    99.00    99.00
10 10 21 20    15.0 1  282.0     5.10    16.60    99.00    99.00
10 10 21 21    15.0 1  272.0     4.60    15.80    99.00    99.00
10 10 21 22    15.0 1  260.0     4.10    15.30    99.00    99.00
10 10 21 23    15.0 1  268.0     3.60    15.10    99.00    99.00
10 10 21 24    15.0 1  283.0     3.10    14.80    99.00    99.00
10 10 22  1    15.0 1  273.0     2.60    14.30    99.00    99.00
10 10 22  2    15.0 1  262.0     3.10    13.90    99.00    99.00
10 10 22  3    15.0 1  272.0     3.10    14.00    99.00    99.00
10 10 22  4    15.0 1  271.0     2.60    14.00    99.00    99.00
10 10 22  5    15.0 1  274.0     2.10    14.00    99.00    99.00
10 10 22  6    15.0 1  257.0     2.10    14.00    99.00    99.00
10 10 22  7    15.0 1  236.0     1.50    14.10    99.00    99.00
10 10 22  8    15.0 1  199.0     1.50    14.30    99.00    99.00
10 10 22  9    15.0 1  221.0     1.50    14.60    99.00    99.00
10 10 22 10    15.0 1  182.0     1.00    15.10    99.00    99.00
10 10 22 11    15.0 1  160.0     0.50    15.80    99.00    99.00
10 10 22 12    15.0 1    0.0     0.00    17.10    99.00    99.00
10 10 22 13    15.0 1    0.0     0.00    18.40    99.00    99.00
10 10 22 14    15.0 1    0.0     0.00    19.40    99.00    99.00
10 10 22 15    15.0 1   15.0     0.50    19.80    99.00    99.00
10 10 22 16    15.0 1   13.0     1.50    20.10    99.00    99.00
10 10 22 17    15.0 1   22.0     2.10    19.60    99.00    99.00
10 10 22 18    15.0 1   14.0     1.50    18.60    99.00    99.00
10 10 22 19    15.0 1  294.0     2.10    18.00    99.00    99.00
10 10 22 20    15.0 1  284.0     4.60    17.00    99.00    99.00
10 10 22 21    15.0 1  291.0     4.10    15.50    99.00    99.00
10 10 22 22    15.0 1  295.0     3.60    15.10    99.00    99.00
10 10 22 23    15.0 1  277.0     3.10    14.80    99.00    99.00
10 10 22 24    15.0 1  277.0     2.60    14.40    99.00    99.00
10 10 23  1    15.0 1  274.0     1.50    14.30    99.00    99.00
10 10 23  2    15.0 1  255.0     0.50    14.30    99.00    99.00
10 10 23  3    15.0 1  188.0     0.50    14.10    99.00    99.00
10 10 23  4    15.0 1    0.0     0.00    13.80    99.00    99.00
10 10 23  5    15.0 1  285.0     0.50    13.10    99.00    99.00
10 10 23  6    15.0 1  263.0     1.50    12.60    99.00    99.00
10 10 23  7    15.0 1  272.0     2.60    12.10    99.00    99.00
10 10 23  8    15.0 1  273.0     3.10    12.10    99.00    99.00
10 10 23  9    15.0 1  272.0     2.10    13.10    99.00    99.00
10 10 23 10    15.0 1  226.0     0.50    14.10    99.00    99.00
10 10 23 11    15.0 1  173.0     0.50    15.30    99.00    99.00
10 10 23 12    15.0 1  186.0     0.50    16.10    99.00    99.00
10 10 23 13    15.0 1    0.0     0.00    16.80    99.00    99.00
10 10 23 14    15.0 1    0.0     0.00    17.40    99.00    99.00
10 10 23 15    15.0 1   15.0     0.50    17.60    99.00    99.00
10 10 23 16    15.0 1   21.0     1.00    17.80    99.00    99.00
10 10 23 17    15.0 1   28.0     1.00    17.40    99.00    99.00
10 10 23 18    15.0 1   51.0     1.00    16.60    99.00    99.00
10 10 23 19    15.0 1    0.0     0.00    15.90    99.00    99.00
10 10 23 20    15.0 1    0.0     0.00    15.10    99.00    99.00
10 10 23 21    15.0 1  260.0     0.50    14.80    99.00    99.00
10 10 23 22    15.0 1  266.0     0.50    14.40    99.00    99.00
10 10 23 23    15.0 1  304.0     0.50    14.10    99.00    99.00
10 10 23 24    15.0 1    0.0     0.00    13.60    99.00    99.00
10 10 24  1    15.0 1    0.0     0.00    13.10    99.00    99.00
10 10 24  2    15.0 1    0.0     0.00    12.80    99.00    99.00
10 10 24  3    15.0 1    0.0     0.00    12.40    99.00    99.00
10 10 24  4    15.0 1    0.0     0.00    12.10    99.00    99.00
10 10 24  5    15.0 1   95.0     0.50    12.00    99.00    99.00
10 10 24  6    15.0 1  100.0     0.50    12.00    99.00    99.00
10 10 24  7    15.0 1  113.0     1.50    12.00    99.00    99.00
10 10 24  8    15.0 1  122.0     2.10    12.30    99.00    99.00
10 10 24  9    15.0 1  139.0     3.10    13.40    99.00    99.00
10 10 24 10    15.0 1  151.0     3.60    15.10    99.00    99.00
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10 10 24 11     15.0 1    140.0      4.60     16.60     99.00     99.00
10 10 24 12     15.0 1    140.0      5.10     17.80     99.00     99.00
10 10 24 13     15.0 1    138.0      4.60     18.50     99.00     99.00
10 10 24 14     15.0 1    141.0      4.10     18.50     99.00     99.00
10 10 24 15     15.0 1    146.0      3.60     18.60     99.00     99.00
10 10 24 16     15.0 1    152.0      3.10     19.10     99.00     99.00
10 10 24 17     15.0 1    147.0      1.50     19.40     99.00     99.00
10 10 24 18     15.0 1    294.0      0.50     19.60     99.00     99.00
10 10 24 19     15.0 1     43.0      2.10     19.00     99.00     99.00
10 10 24 20     15.0 1     24.0      3.10     18.50     99.00     99.00
10 10 24 21     15.0 1      5.0      3.10     18.10     99.00     99.00
10 10 24 22     15.0 1    341.0      3.60     17.80     99.00     99.00
10 10 24 23     15.0 1    335.0      4.60     17.10     99.00     99.00
10 10 24 24     15.0 1    314.0      4.60     16.10     99.00     99.00
10 10 25  1     15.0 1    318.0      5.10     15.50     99.00     99.00
10 10 25  2     15.0 1    317.0      5.10     14.60     99.00     99.00
10 10 25  3     15.0 1    313.0      5.10     13.80     99.00     99.00
10 10 25  4     15.0 1    322.0      4.60     13.10     99.00     99.00
10 10 25  5     15.0 1    315.0      4.60     12.60     99.00     99.00
10 10 25  6     15.0 1    314.0      5.10     12.60     99.00     99.00
10 10 25  7     15.0 1    313.0      5.70     12.60     99.00     99.00
10 10 25  8     15.0 1    313.0      5.10     12.60     99.00     99.00
10 10 25  9     15.0 1    315.0      5.10     13.10     99.00     99.00
10 10 25 10     15.0 1    319.0      5.70     14.10     99.00     99.00
10 10 25 11     15.0 1    311.0      4.60     14.60     99.00     99.00
10 10 25 12     15.0 1    309.0      4.10     15.50     99.00     99.00
10 10 25 13     15.0 1    328.0      4.10     16.90     99.00     99.00
10 10 25 14     15.0 1    345.0      4.60     17.50     99.00     99.00
10 10 25 15     15.0 1    345.0      5.10     17.60     99.00     99.00
10 10 25 16     15.0 1    345.0      4.60     17.40     99.00     99.00
10 10 25 17     15.0 1    326.0      2.60     17.10     99.00     99.00
10 10 25 18     15.0 1    311.0      2.60     16.40     99.00     99.00
10 10 25 19     15.0 1    298.0      3.10     15.60     99.00     99.00
10 10 25 20     15.0 1    309.0      3.60     14.80     99.00     99.00
10 10 25 21     15.0 1    316.0      3.60     13.80     99.00     99.00
10 10 25 22     15.0 1    335.0      2.60     13.00     99.00     99.00
10 10 25 23     15.0 1    338.0      1.00     12.10     99.00     99.00
10 10 25 24     15.0 1    337.0      0.50     11.40     99.00     99.00
10 10 26  1     15.0 1      0.0      0.00     10.60     99.00     99.00
10 10 26  2     15.0 1      0.0      0.00     10.10     99.00     99.00
10 10 26  3     15.0 1    256.0      0.50      9.80     99.00     99.00
10 10 26  4     15.0 1    287.0      0.50      9.40     99.00     99.00
10 10 26  5     15.0 1    310.0      0.50      9.10     99.00     99.00
10 10 26  6     15.0 1    319.0      0.50      8.80     99.00     99.00
10 10 26  7     15.0 1    316.0      0.50      8.40     99.00     99.00
10 10 26  8     15.0 1    330.0      0.50      8.90     99.00     99.00
10 10 26  9     15.0 1    347.0      0.50     10.90     99.00     99.00
10 10 26 10     15.0 1    316.0      0.50     12.50     99.00     99.00
10 10 26 11     15.0 1    309.0      1.00     13.90     99.00     99.00
10 10 26 12     15.0 1    319.0      2.10     15.10     99.00     99.00
10 10 26 13     15.0 1    330.0      3.10     16.10     99.00     99.00
10 10 26 14     15.0 1    335.0      4.10     16.60     99.00     99.00
10 10 26 15     15.0 1    342.0      4.60     16.90     99.00     99.00
10 10 26 16     15.0 1    339.0      4.60     16.90     99.00     99.00
10 10 26 17     15.0 1    322.0      3.10     16.40     99.00     99.00
10 10 26 18     15.0 1    313.0      2.60     15.60     99.00     99.00
10 10 26 19     15.0 1    297.0      1.50     14.60     99.00     99.00
10 10 26 20     15.0 1    310.0      0.50     13.80     99.00     99.00
10 10 26 21     15.0 1      9.0      0.50     13.10     99.00     99.00
10 10 26 22     15.0 1    145.0      0.50     12.00     99.00     99.00
10 10 26 23     15.0 1    162.0      1.50     11.00     99.00     99.00
10 10 26 24     15.0 1    205.0      1.50     10.40     99.00     99.00
10 10 27  1     15.0 1    239.0      1.50     10.10     99.00     99.00
10 10 27  2     15.0 1    209.0      1.00      9.60     99.00     99.00
10 10 27  3     15.0 1    198.0      1.50      8.90     99.00     99.00
10 10 27  4     15.0 1    247.0      2.60      8.30     99.00     99.00
10 10 27  5     15.0 1    274.0      3.10      7.50     99.00     99.00
10 10 27  6     15.0 1    268.0      2.60      7.00     99.00     99.00
10 10 27  7     15.0 1    265.0      2.60      6.60     99.00     99.00
10 10 27  8     15.0 1    262.0      2.10      7.30     99.00     99.00
10 10 27  9     15.0 1    268.0      1.00      9.40     99.00     99.00
10 10 27 10     15.0 1    264.0      0.50     11.60     99.00     99.00
10 10 27 11     15.0 1    274.0      0.50     14.30     99.00     99.00
10 10 27 12     15.0 1      0.0      0.00     16.40     99.00     99.00
10 10 27 13     15.0 1      0.0      0.00     18.30     99.00     99.00
10 10 27 14     15.0 1    335.0      0.50     19.90     99.00     99.00
10 10 27 15     15.0 1    344.0      1.00     21.10     99.00     99.00
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10 10 27 16     15.0 1     35.0      1.50     22.30     99.00     99.00
10 10 27 17     15.0 1     31.0      3.60     20.30     99.00     99.00
10 10 27 18     15.0 1     45.0      4.60     17.60     99.00     99.00
10 10 27 19     15.0 1     69.0      4.10     16.30     99.00     99.00
10 10 27 20     15.0 1     99.0      3.10     15.50     99.00     99.00
10 10 27 21     15.0 1    119.0      1.50     14.60     99.00     99.00
10 10 27 22     15.0 1    119.0      0.50     14.10     99.00     99.00
10 10 27 23     15.0 1     73.0      0.50     14.00     99.00     99.00
10 10 27 24     15.0 1     20.0      0.50     13.80     99.00     99.00
10 10 28  1     15.0 1     15.0      0.50     13.50     99.00     99.00
10 10 28  2     15.0 1      9.0      1.00     12.90     99.00     99.00
10 10 28  3     15.0 1     19.0      1.50     12.30     99.00     99.00
10 10 28  4     15.0 1     10.0      1.50     11.60     99.00     99.00
10 10 28  5     15.0 1      0.0      0.00     11.40     99.00     99.00
10 10 28  6     15.0 1      0.0      0.00     11.30     99.00     99.00
10 10 28  7     15.0 1      6.0      1.50     11.40     99.00     99.00
10 10 28  8     15.0 1     15.0      1.50     11.60     99.00     99.00
10 10 28  9     15.0 1      3.0      2.10     12.10     99.00     99.00
10 10 28 10     15.0 1      7.0      1.50     16.10     99.00     99.00
10 10 28 11     15.0 1    337.0      1.00     19.30     99.00     99.00
10 10 28 12     15.0 1    328.0      1.50     21.10     99.00     99.00
10 10 28 13     15.0 1    331.0      1.50     22.10     99.00     99.00
10 10 28 14     15.0 1    326.0      2.10     22.80     99.00     99.00
10 10 28 15     15.0 1    336.0      3.10     22.60     99.00     99.00
10 10 28 16     15.0 1    348.0      3.10     21.60     99.00     99.00
10 10 28 17     15.0 1      0.0      0.00     20.30     99.00     99.00
10 10 28 18     15.0 1      6.0      3.60     18.90     99.00     99.00
10 10 28 19     15.0 1      3.0      3.60     18.00     99.00     99.00
10 10 28 20     15.0 1    338.0      4.10     17.10     99.00     99.00
10 10 28 21     15.0 1    325.0      5.10     16.10     99.00     99.00
10 10 28 22     15.0 1    324.0      4.60     14.80     99.00     99.00
10 10 28 23     15.0 1    330.0      4.10     13.90     99.00     99.00
10 10 28 24     15.0 1    349.0      4.10     13.30     99.00     99.00
10 10 29  1     15.0 1      9.0      4.10     12.60     99.00     99.00
10 10 29  2     15.0 1     18.0      4.10     12.30     99.00     99.00
10 10 29  3     15.0 1     19.0      3.10     12.00     99.00     99.00
10 10 29  4     15.0 1     13.0      1.50     11.50     99.00     99.00
10 10 29  5     15.0 1      0.0      0.00     11.00     99.00     99.00
10 10 29  6     15.0 1      0.0      0.00     10.40     99.00     99.00
10 10 29  7     15.0 1      0.0      0.00      9.90     99.00     99.00
10 10 29  8     15.0 1      0.0      0.00     10.10     99.00     99.00
10 10 29  9     15.0 1      0.0      0.00     13.10     99.00     99.00
10 10 29 10     15.0 1      0.0      0.00     15.40     99.00     99.00
10 10 29 11     15.0 1      0.0      0.00     17.60     99.00     99.00
10 10 29 12     15.0 1      0.0      0.00     19.40     99.00     99.00
10 10 29 13     15.0 1      0.0      0.00     20.60     99.00     99.00
10 10 29 14     15.0 1      0.0      0.00     21.50     99.00     99.00
10 10 29 15     15.0 1     23.0      0.50     22.10     99.00     99.00
10 10 29 16     15.0 1     13.0      1.00     22.10     99.00     99.00
10 10 29 17     15.0 1    352.0      1.50     21.50     99.00     99.00
10 10 29 18     15.0 1    339.0      1.50     20.10     99.00     99.00
10 10 29 19     15.0 1    323.0      1.50     18.60     99.00     99.00
10 10 29 20     15.0 1    316.0      2.60     18.10     99.00     99.00
10 10 29 21     15.0 1    342.0      2.60     17.60     99.00     99.00
10 10 29 22     15.0 1     18.0      1.00     17.30     99.00     99.00
10 10 29 23     15.0 1     71.0      0.50     17.10     99.00     99.00
10 10 29 24     15.0 1    245.0      0.50     17.10     99.00     99.00
10 10 30  1     15.0 1    290.0      1.00     16.60     99.00     99.00
10 10 30  2     15.0 1    325.0      1.50     16.00     99.00     99.00
10 10 30  3     15.0 1     13.0      3.10     14.60     99.00     99.00
10 10 30  4     15.0 1     46.0      1.50     14.00     99.00     99.00
10 10 30  5     15.0 1    118.0      1.50     13.80     99.00     99.00
10 10 30  6     15.0 1    116.0      2.10     13.90     99.00     99.00
10 10 30  7     15.0 1    127.0      1.50     13.80     99.00     99.00
10 10 30  8     15.0 1     99.0      1.00     13.80     99.00     99.00
10 10 30  9     15.0 1    297.0      0.50     15.30     99.00     99.00
10 10 30 10     15.0 1    324.0      1.50     16.40     99.00     99.00
10 10 30 11     15.0 1    330.0      1.50     17.30     99.00     99.00
10 10 30 12     15.0 1    336.0      1.50     18.00     99.00     99.00
10 10 30 13     15.0 1    353.0      1.50     18.40     99.00     99.00
10 10 30 14     15.0 1    328.0      0.50     18.80     99.00     99.00
10 10 30 15     15.0 1     23.0      0.50     18.90     99.00     99.00
10 10 30 16     15.0 1     49.0      0.50     19.00     99.00     99.00
10 10 30 17     15.0 1     64.0      1.00     18.60     99.00     99.00
10 10 30 18     15.0 1     64.0      1.50     18.00     99.00     99.00
10 10 30 19     15.0 1     83.0      1.50     17.10     99.00     99.00
10 10 30 20     15.0 1    108.0      1.00     16.80     99.00     99.00
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10 10 30 21     15.0 1    219.0      1.00     16.50     99.00     99.00
10 10 30 22     15.0 1    280.0      2.60     15.40     99.00     99.00
10 10 30 23     15.0 1    299.0      2.10     14.10     99.00     99.00
10 10 30 24     15.0 1    307.0      1.50     13.40     99.00     99.00
10 10 31  1     15.0 1    290.0      1.50     12.60     99.00     99.00
10 10 31  2     15.0 1    260.0      1.00     11.90     99.00     99.00
10 10 31  3     15.0 1    236.0      1.00     11.40     99.00     99.00
10 10 31  4     15.0 1    227.0      1.00     11.00     99.00     99.00
10 10 31  5     15.0 1    210.0      1.50     10.60     99.00     99.00
10 10 31  6     15.0 1    197.0      1.50     10.60     99.00     99.00
10 10 31  7     15.0 1    195.0      1.00     10.50     99.00     99.00
10 10 31  8     15.0 1    191.0      0.50     10.60     99.00     99.00
10 10 31  9     15.0 1      0.0      0.00     11.90     99.00     99.00
10 10 31 10     15.0 1      0.0      0.00     13.10     99.00     99.00
10 10 31 11     15.0 1      0.0      0.00     14.60     99.00     99.00
10 10 31 12     15.0 1      0.0      0.00     16.10     99.00     99.00
10 10 31 13     15.0 1      0.0      0.00     17.30     99.00     99.00
10 10 31 14     15.0 1      0.0      0.00     18.10     99.00     99.00
10 10 31 15     15.0 1    350.0      0.50     18.60     99.00     99.00
10 10 31 16     15.0 1     11.0      1.00     18.60     99.00     99.00
10 10 31 17     15.0 1     49.0      0.50     18.40     99.00     99.00
10 10 31 18     15.0 1     73.0      1.00     17.40     99.00     99.00
10 10 31 19     15.0 1     89.0      1.50     16.10     99.00     99.00
10 10 31 20     15.0 1    114.0      1.50     15.10     99.00     99.00
10 10 31 21     15.0 1    116.0      1.50     14.10     99.00     99.00
10 10 31 22     15.0 1    118.0      2.10     13.40     99.00     99.00
10 10 31 23     15.0 1    124.0      2.10     12.60     99.00     99.00
10 10 31 24     15.0 1    117.0      1.50     12.00     99.00     99.00
10 11  1  1     15.0 1    116.0      1.00     11.40     99.00     99.00
10 11  1  2     15.0 1    110.0      0.50     10.90     99.00     99.00
10 11  1  3     15.0 1      0.0      0.00     10.50     99.00     99.00
10 11  1  4     15.0 1      0.0      0.00     10.10     99.00     99.00
10 11  1  5     15.0 1      0.0      0.00      9.80     99.00     99.00
10 11  1  6     15.0 1      0.0      0.00      9.00     99.00     99.00
10 11  1  7     15.0 1      0.0      0.00      7.80     99.00     99.00
10 11  1  8     15.0 1      0.0      0.00      7.60     99.00     99.00
10 11  1  9     15.0 1      0.0      0.00      8.90     99.00     99.00
10 11  1 10     15.0 1      0.0      0.00     10.90     99.00     99.00
10 11  1 11     15.0 1    328.0      0.50     13.10     99.00     99.00
10 11  1 12     15.0 1    330.0      1.00     15.60     99.00     99.00
10 11  1 13     15.0 1    342.0      1.50     17.10     99.00     99.00
10 11  1 14     15.0 1    337.0      1.50     18.10     99.00     99.00
10 11  1 15     15.0 1    341.0      1.50     18.60     99.00     99.00
10 11  1 16     15.0 1    329.0      2.10     21.10     99.00     99.00
10 11  1 17     15.0 1    351.0      1.50     20.80     99.00     99.00
10 11  1 18     15.0 1      0.0      0.00     19.80     99.00     99.00
10 11  1 19     15.0 1      0.0      0.00     18.50     99.00     99.00
10 11  1 20     15.0 1      0.0      0.00     17.40     99.00     99.00
10 11  1 21     15.0 1      0.0      0.00     16.40     99.00     99.00
10 11  1 22     15.0 1      0.0      0.00     15.60     99.00     99.00
10 11  1 23     15.0 1      0.0      0.00     15.00     99.00     99.00
10 11  1 24     15.0 1      0.0      0.00     14.40     99.00     99.00
10 11  2  1     15.0 1      0.0      0.00     13.80     99.00     99.00
10 11  2  2     15.0 1      0.0      0.00     13.40     99.00     99.00
10 11  2  3     15.0 1    311.0      0.50     13.10     99.00     99.00
10 11  2  4     15.0 1    296.0      0.50     13.00     99.00     99.00
10 11  2  5     15.0 1    277.0      0.50     12.60     99.00     99.00
10 11  2  6     15.0 1    261.0      1.00     12.40     99.00     99.00
10 11  2  7     15.0 1    256.0      1.00     12.10     99.00     99.00
10 11  2  8     15.0 1    251.0      1.00     12.50     99.00     99.00
10 11  2  9     15.0 1    286.0      1.00     14.90     99.00     99.00
10 11  2 10     15.0 1    298.0      1.00     16.60     99.00     99.00
10 11  2 11     15.0 1    296.0      0.50     18.60     99.00     99.00
10 11  2 12     15.0 1    323.0      0.50     20.60     99.00     99.00
10 11  2 13     15.0 1    339.0      1.00     21.90     99.00     99.00
10 11  2 14     15.0 1    352.0      1.50     22.60     99.00     99.00
10 11  2 15     15.0 1      0.0      0.00     23.00     99.00     99.00
10 11  2 16     15.0 1     10.0      2.10     22.90     99.00     99.00
10 11  2 17     15.0 1     22.0      2.10     22.30     99.00     99.00
10 11  2 18     15.0 1     22.0      2.60     21.10     99.00     99.00
10 11  2 19     15.0 1     31.0      1.50     20.10     99.00     99.00
10 11  2 20     15.0 1     19.0      0.50     19.10     99.00     99.00
10 11  2 21     15.0 1      0.0      0.00     18.10     99.00     99.00
10 11  2 22     15.0 1      0.0      0.00     17.30     99.00     99.00
10 11  2 23     15.0 1      0.0      0.00     16.60     99.00     99.00
10 11  2 24     15.0 1      0.0      0.00     16.10     99.00     99.00
10 11  3  1     15.0 1      0.0      0.00     15.80     99.00     99.00
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10 11   3  2     15.0 1   328.0      0.50     15.50     99.00     99.00
10 11   3  3     15.0 1   338.0      1.00     15.10     99.00     99.00
10 11   3  4     15.0 1   346.0      1.50     14.60     99.00     99.00
10 11   3  5     15.0 1     2.0      1.50     14.30     99.00     99.00
10 11   3  6     15.0 1     0.0      0.00     14.00     99.00     99.00
10 11   3  7     15.0 1   348.0      0.50     13.80     99.00     99.00
10 11   3  8     15.0 1   350.0      0.50     13.80     99.00     99.00
10 11   3  9     15.0 1   310.0      2.10     17.00     99.00     99.00
10 11   3 10     15.0 1   304.0      2.10     19.10     99.00     99.00
10 11   3 11     15.0 1   321.0      2.10     21.10     99.00     99.00
10 11   3 12     15.0 1   330.0      2.10     22.60     99.00     99.00
10 11   3 13     15.0 1   343.0      2.10     24.00     99.00     99.00
10 11   3 14     15.0 1   355.0      2.60     25.00     99.00     99.00
10 11   3 15     15.0 1   351.0      2.60     25.50     99.00     99.00
10 11   3 16     15.0 1     2.0      2.60     25.30     99.00     99.00
10 11   3 17     15.0 1     9.0      2.60     24.50     99.00     99.00
10 11   3 18     15.0 1    14.0      2.10     23.10     99.00     99.00
10 11   3 19     15.0 1    24.0      1.00     22.00     99.00     99.00
10 11   3 20     15.0 1     0.0      0.00     20.60     99.00     99.00
10 11   3 21     15.0 1     0.0      0.00     19.60     99.00     99.00
10 11   3 22     15.0 1     0.0      0.00     18.80     99.00     99.00
10 11   3 23     15.0 1     0.0      0.00     18.10     99.00     99.00
10 11   3 24     15.0 1   354.0      0.50     17.60     99.00     99.00
10 11   4  1     15.0 1   339.0      0.50     17.30     99.00     99.00
10 11   4  2     15.0 1   333.0      1.00     16.90     99.00     99.00
10 11   4  3     15.0 1   318.0      1.00     16.50     99.00     99.00
10 11   4  4     15.0 1   302.0      1.00     16.10     99.00     99.00
10 11   4  5     15.0 1   300.0      1.00     16.00     99.00     99.00
10 11   4  6     15.0 1   302.0      0.50     15.60     99.00     99.00
10 11   4  7     15.0 1   295.0      0.50     15.40     99.00     99.00
10 11   4  8     15.0 1   260.0      0.50     15.40     99.00     99.00
10 11   4  9     15.0 1   312.0      1.50     17.90     99.00     99.00
10 11   4 10     15.0 1   296.0      1.50     19.60     99.00     99.00
10 11   4 11     15.0 1   305.0      1.50     21.60     99.00     99.00
10 11   4 12     15.0 1   306.0      1.00     23.40     99.00     99.00
10 11   4 13     15.0 1   322.0      0.50     24.60     99.00     99.00
10 11   4 14     15.0 1   334.0      0.50     25.80     99.00     99.00
10 11   4 15     15.0 1   350.0      1.00     26.40     99.00     99.00
10 11   4 16     15.0 1    14.0      1.50     26.40     99.00     99.00
10 11   4 17     15.0 1    25.0      1.50     25.50     99.00     99.00
10 11   4 18     15.0 1    25.0      1.50     24.10     99.00     99.00
10 11   4 19     15.0 1   346.0      0.50     22.60     99.00     99.00
10 11   4 20     15.0 1     0.0      0.00     21.30     99.00     99.00
10 11   4 21     15.0 1   278.0      1.00     20.50     99.00     99.00
10 11   4 22     15.0 1   287.0      2.10     20.00     99.00     99.00
10 11   4 23     15.0 1   307.0      3.10     19.50     99.00     99.00
10 11   4 24     15.0 1   328.0      3.10     18.90     99.00     99.00
10 11   5  1     15.0 1   349.0      2.60     18.10     99.00     99.00
10 11   5  2     15.0 1   350.0      2.60     17.60     99.00     99.00
10 11   5  3     15.0 1   349.0      2.60     17.10     99.00     99.00
10 11   5  4     15.0 1   340.0      2.10     16.80     99.00     99.00
10 11   5  5     15.0 1   327.0      1.50     16.30     99.00     99.00
10 11   5  6     15.0 1   311.0      2.10     15.60     99.00     99.00
10 11   5  7     15.0 1   309.0      2.10     15.10     99.00     99.00
10 11   5  8     15.0 1   317.0      1.50     15.10     99.00     99.00
10 11   5  9     15.0 1   325.0      2.10     17.30     99.00     99.00
10 11   5 10     15.0 1   310.0      1.50     18.90     99.00     99.00
10 11   5 11     15.0 1   312.0      1.00     21.10     99.00     99.00
10 11   5 12     15.0 1   305.0      0.50     23.00     99.00     99.00
10 11   5 13     15.0 1   309.0      0.50     24.60     99.00     99.00
10 11   5 14     15.0 1   326.0      1.00     25.50     99.00     99.00
10 11   5 15     15.0 1   350.0      1.50     26.00     99.00     99.00
10 11   5 16     15.0 1     0.0      0.00     25.90     99.00     99.00
10 11   5 17     15.0 1     8.0      2.10     25.10     99.00     99.00
10 11   5 18     15.0 1     0.0      0.00     24.00     99.00     99.00
10 11   5 19     15.0 1   316.0      3.10     22.60     99.00     99.00
10 11   5 20     15.0 1   319.0      4.60     20.30     99.00     99.00
10 11   5 21     15.0 1   306.0      4.10     18.00     99.00     99.00
10 11   5 22     15.0 1   317.0      3.60     17.00     99.00     99.00
10 11   5 23     15.0 1   328.0      3.60     16.30     99.00     99.00
10 11   5 24     15.0 1   359.0      4.10     15.60     99.00     99.00
10 11   6  1     15.0 1     2.0      4.10     15.00     99.00     99.00
10 11   6  2     15.0 1     1.0      4.10     14.50     99.00     99.00
10 11   6  3     15.0 1   360.0      4.10     14.00     99.00     99.00
10 11   6  4     15.0 1     0.0      0.00     13.60     99.00     99.00
10 11   6  5     15.0 1    15.0      4.10     13.30     99.00     99.00
10 11   6  6     15.0 1    12.0      4.10     13.00     99.00     99.00
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10 11   6  7    15.0 1     7.0     4.10    12.80    99.00    99.00
10 11   6  8    15.0 1     0.0     0.00    13.30    99.00    99.00
10 11   6  9    15.0 1   348.0     3.10    14.90    99.00    99.00
10 11   6 10    15.0 1     4.0     2.10    16.50    99.00    99.00
10 11   6 11    15.0 1   348.0     2.10    18.30    99.00    99.00
10 11   6 12    15.0 1   353.0     2.60    19.60    99.00    99.00
10 11   6 13    15.0 1   347.0     2.60    20.80    99.00    99.00
10 11   6 14    15.0 1   337.0     2.60    21.60    99.00    99.00
10 11   6 15    15.0 1   345.0     3.60    22.00    99.00    99.00
10 11   6 16    15.0 1   334.0     3.60    22.60    99.00    99.00
10 11   6 17    15.0 1   329.0     4.10    21.50    99.00    99.00
10 11   6 18    15.0 1   306.0     4.10    20.30    99.00    99.00
10 11   6 19    15.0 1   285.0     4.60    18.10    99.00    99.00
10 11   6 20    15.0 1   267.0     3.60    16.50    99.00    99.00
10 11   6 21    15.0 1   290.0     3.60    15.40    99.00    99.00
10 11   6 22    15.0 1   305.0     3.10    14.60    99.00    99.00
10 11   6 23    15.0 1   311.0     2.60    14.10    99.00    99.00
10 11   6 24    15.0 1   323.0     1.50    13.60    99.00    99.00
10 11   7  1    15.0 1   360.0     1.00    13.40    99.00    99.00
10 11   7  2    15.0 1   357.0     0.50    13.40    99.00    99.00
10 11   7  3    15.0 1     0.0     0.00    13.30    99.00    99.00
10 11   7  4    15.0 1   120.0     1.00    13.30    99.00    99.00
10 11   7  5    15.0 1   129.0     1.00    13.30    99.00    99.00
10 11   7  6    15.0 1   151.0     1.50    13.30    99.00    99.00
10 11   7  7    15.0 1   159.0     1.50    13.40    99.00    99.00
10 11   7  8    15.0 1   167.0     1.50    13.50    99.00    99.00
10 11   7  9    15.0 1   175.0     2.10    13.60    99.00    99.00
10 11   7 10    15.0 1   169.0     1.50    14.60    99.00    99.00
10 11   7 11    15.0 1   176.0     0.50    15.60    99.00    99.00
10 11   7 12    15.0 1     0.0     0.00    16.60    99.00    99.00
10 11   7 13    15.0 1   300.0     1.50    17.10    99.00    99.00
10 11   7 14    15.0 1   309.0     2.10    17.50    99.00    99.00
10 11   7 15    15.0 1   340.0     2.60    17.40    99.00    99.00
10 11   7 16    15.0 1     0.0     0.00    17.10    99.00    99.00
10 11   7 17    15.0 1    12.0     2.60    16.80    99.00    99.00
10 11   7 18    15.0 1   335.0     2.60    16.30    99.00    99.00
10 11   7 19    15.0 1   324.0     3.10    15.40    99.00    99.00
10 11   7 20    15.0 1   351.0     1.00    14.60    99.00    99.00
10 11   7 21    15.0 1   137.0     0.50    14.30    99.00    99.00
10 11   7 22    15.0 1   207.0     0.50    14.10    99.00    99.00
10 11   7 23    15.0 1   237.0     1.50    14.10    99.00    99.00
10 11   7 24    15.0 1   270.0     3.10    13.60    99.00    99.00
10 11   8  1    15.0 1   286.0     4.60    12.60    99.00    99.00
10 11   8  2    15.0 1   299.0     4.60    11.60    99.00    99.00
10 11   8  3    15.0 1   297.0     4.10    10.90    99.00    99.00
10 11   8  4    15.0 1   308.0     4.10    10.80    99.00    99.00
10 11   8  5    15.0 1   309.0     4.60    11.00    99.00    99.00
10 11   8  6    15.0 1   312.0     4.60    11.10    99.00    99.00
10 11   8  7    15.0 1   297.0     4.60    11.00    99.00    99.00
10 11   8  8    15.0 1   303.0     4.10    11.00    99.00    99.00
10 11   8  9    15.0 1   318.0     5.70    11.30    99.00    99.00
10 11   8 10    15.0 1   334.0     6.20    12.50    99.00    99.00
10 11   8 11    15.0 1   337.0     6.20    13.10    99.00    99.00
10 11   8 12    15.0 1   338.0     6.20    13.60    99.00    99.00
10 11   8 13    15.0 1   339.0     6.20    14.10    99.00    99.00
10 11   8 14    15.0 1   337.0     6.20    14.40    99.00    99.00
10 11   8 15    15.0 1   343.0     6.20    14.60    99.00    99.00
10 11   8 16    15.0 1   328.0     4.60    14.40    99.00    99.00
10 11   8 17    15.0 1   318.0     3.60    13.40    99.00    99.00
10 11   8 18    15.0 1   312.0     3.60    12.30    99.00    99.00
10 11   8 19    15.0 1   302.0     3.10    11.50    99.00    99.00
10 11   8 20    15.0 1   302.0     2.60    10.80    99.00    99.00
10 11   8 21    15.0 1   305.0     2.10    10.10    99.00    99.00
10 11   8 22    15.0 1   285.0     1.50     9.60    99.00    99.00
10 11   8 23    15.0 1   273.0     1.50     9.00    99.00    99.00
10 11   8 24    15.0 1   259.0     1.50     8.40    99.00    99.00
10 11   9  1    15.0 1   260.0     1.50     8.00    99.00    99.00
10 11   9  2    15.0 1   272.0     1.50     7.60    99.00    99.00
10 11   9  3    15.0 1   274.0     2.10     7.10    99.00    99.00
10 11   9  4    15.0 1   275.0     2.10     6.60    99.00    99.00
10 11   9  5    15.0 1   271.0     2.10     6.00    99.00    99.00
10 11   9  6    15.0 1   285.0     2.10     5.50    99.00    99.00
10 11   9  7    15.0 1   266.0     2.60     5.00    99.00    99.00
10 11   9  8    15.0 1   281.0     2.60     5.00    99.00    99.00
10 11   9  9    15.0 1   324.0     2.60     7.00    99.00    99.00
10 11   9 10    15.0 1   312.0     1.00     8.50    99.00    99.00
10 11   9 11    15.0 1   291.0     1.00     9.60    99.00    99.00
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10 11  9 12    15.0 1   298.0     1.00    10.90    99.00    99.00
10 11  9 13    15.0 1   303.0     1.00    12.00    99.00    99.00
10 11  9 14    15.0 1   312.0     1.50    12.60    99.00    99.00
10 11  9 15    15.0 1   322.0     1.50    13.10    99.00    99.00
10 11  9 16    15.0 1   340.0     1.50    13.10    99.00    99.00
10 11  9 17    15.0 1     0.0     0.00    12.60    99.00    99.00
10 11  9 18    15.0 1     0.0     0.00    11.60    99.00    99.00
10 11  9 19    15.0 1     0.0     0.00    10.60    99.00    99.00
10 11  9 20    15.0 1   150.0     1.00     9.60    99.00    99.00
10 11  9 21    15.0 1   148.0     2.10     8.80    99.00    99.00
10 11  9 22    15.0 1   160.0     2.60     8.30    99.00    99.00
10 11  9 23    15.0 1   147.0     2.10     7.80    99.00    99.00
10 11  9 24    15.0 1   130.0     1.50     7.30    99.00    99.00
10 11 10  1    15.0 1   122.0     1.50     6.80    99.00    99.00
10 11 10  2    15.0 1   115.0     1.00     6.30    99.00    99.00
10 11 10  3    15.0 1    78.0     0.50     5.60    99.00    99.00
10 11 10  4    15.0 1     0.0     0.00     5.60    99.00    99.00
10 11 10  5    15.0 1   124.0     0.50     6.00    99.00    99.00
10 11 10  6    15.0 1   126.0     1.00     5.80    99.00    99.00
10 11 10  7    15.0 1   123.0     1.00     5.40    99.00    99.00
10 11 10  8    15.0 1   136.0     1.50     5.40    99.00    99.00
10 11 10  9    15.0 1   163.0     1.50     8.10    99.00    99.00
10 11 10 10    15.0 1     0.0     0.00    10.50    99.00    99.00
10 11 10 11    15.0 1     0.0     0.00    12.40    99.00    99.00
10 11 10 12    15.0 1   306.0     0.50    13.60    99.00    99.00
10 11 10 13    15.0 1   326.0     2.10    14.50    99.00    99.00
10 11 10 14    15.0 1   332.0     3.10    15.10    99.00    99.00
10 11 10 15    15.0 1   336.0     4.10    15.10    99.00    99.00
10 11 10 16    15.0 1   340.0     3.60    14.90    99.00    99.00
10 11 10 17    15.0 1   345.0     4.10    13.60    99.00    99.00
10 11 10 18    15.0 1   331.0     4.10    11.60    99.00    99.00
10 11 10 19    15.0 1   334.0     3.60    10.60    99.00    99.00
10 11 10 20    15.0 1   338.0     2.60    10.10    99.00    99.00
10 11 10 21    15.0 1   336.0     1.50     9.80    99.00    99.00
10 11 10 22    15.0 1   286.0     1.00     9.50    99.00    99.00
10 11 10 23    15.0 1   284.0     1.50     9.00    99.00    99.00
10 11 10 24    15.0 1   298.0     1.00     8.40    99.00    99.00
10 11 11  1    15.0 1   311.0     1.00     8.10    99.00    99.00
10 11 11  2    15.0 1   302.0     1.50     8.30    99.00    99.00
10 11 11  3    15.0 1   291.0     2.10     8.50    99.00    99.00
10 11 11  4    15.0 1   291.0     3.10     8.30    99.00    99.00
10 11 11  5    15.0 1   278.0     3.60     7.80    99.00    99.00
10 11 11  6    15.0 1   271.0     3.10     7.40    99.00    99.00
10 11 11  7    15.0 1   237.0     2.10     7.10    99.00    99.00
10 11 11  8    15.0 1   240.0     2.10     7.10    99.00    99.00
10 11 11  9    15.0 1   271.0     2.60     8.30    99.00    99.00
10 11 11 10    15.0 1   272.0     3.10    10.10    99.00    99.00
10 11 11 11    15.0 1   283.0     3.60    11.60    99.00    99.00
10 11 11 12    15.0 1   290.0     3.60    12.90    99.00    99.00
10 11 11 13    15.0 1   306.0     4.10    14.00    99.00    99.00
10 11 11 14    15.0 1   317.0     4.10    14.60    99.00    99.00
10 11 11 15    15.0 1   334.0     3.60    14.90    99.00    99.00
10 11 11 16    15.0 1   336.0     2.60    15.60    99.00    99.00
10 11 11 17    15.0 1   348.0     2.10    15.10    99.00    99.00
10 11 11 18    15.0 1     0.0     0.00    14.00    99.00    99.00
10 11 11 19    15.0 1     0.0     0.00    12.80    99.00    99.00
10 11 11 20    15.0 1     0.0     0.00    11.60    99.00    99.00
10 11 11 21    15.0 1   268.0     1.00    10.60    99.00    99.00
10 11 11 22    15.0 1   251.0     1.00     9.90    99.00    99.00
10 11 11 23    15.0 1   236.0     1.00     9.30    99.00    99.00
10 11 11 24    15.0 1   236.0     1.00     8.60    99.00    99.00
10 11 12  1    15.0 1   247.0     1.00     8.10    99.00    99.00
10 11 12  2    15.0 1   270.0     1.50     7.60    99.00    99.00
10 11 12  3    15.0 1   277.0     1.50     7.50    99.00    99.00
10 11 12  4    15.0 1   284.0     1.50     7.30    99.00    99.00
10 11 12  5    15.0 1   272.0     1.50     6.90    99.00    99.00
10 11 12  6    15.0 1   257.0     1.50     6.40    99.00    99.00
10 11 12  7    15.0 1   266.0     1.00     6.00    99.00    99.00
10 11 12  8    15.0 1   259.0     1.00     5.80    99.00    99.00
10 11 12  9    15.0 1   299.0     1.00     7.50    99.00    99.00
10 11 12 10    15.0 1     0.0     0.00     9.10    99.00    99.00
10 11 12 11    15.0 1     0.0     0.00    11.10    99.00    99.00
10 11 12 12    15.0 1   276.0     0.50    12.40    99.00    99.00
10 11 12 13    15.0 1   278.0     0.50    13.40    99.00    99.00
10 11 12 14    15.0 1   295.0     0.50    14.30    99.00    99.00
10 11 12 15    15.0 1   311.0     0.50    14.60    99.00    99.00
10 11 12 16    15.0 1   352.0     1.00    14.80    99.00    99.00
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10 11 12 17    15.0 1    41.0     1.00    14.10    99.00    99.00
10 11 12 18    15.0 1    78.0     1.00    13.00    99.00    99.00
10 11 12 19    15.0 1   118.0     0.50    11.80    99.00    99.00
10 11 12 20    15.0 1     0.0     0.00    10.60    99.00    99.00
10 11 12 21    15.0 1     0.0     0.00     9.80    99.00    99.00
10 11 12 22    15.0 1     0.0     0.00     8.90    99.00    99.00
10 11 12 23    15.0 1    78.0     0.50     8.10    99.00    99.00
10 11 12 24    15.0 1     0.0     0.00     7.60    99.00    99.00
10 11 13  1    15.0 1     0.0     0.00     7.10    99.00    99.00
10 11 13  2    15.0 1     0.0     0.00     6.60    99.00    99.00
10 11 13  3    15.0 1   285.0     0.50     6.40    99.00    99.00
10 11 13  4    15.0 1   291.0     1.00     6.30    99.00    99.00
10 11 13  5    15.0 1   288.0     1.00     6.10    99.00    99.00
10 11 13  6    15.0 1   294.0     1.50     5.90    99.00    99.00
10 11 13  7    15.0 1   293.0     1.50     5.80    99.00    99.00
10 11 13  8    15.0 1   294.0     1.50     5.90    99.00    99.00
10 11 13  9    15.0 1   313.0     2.10     8.40    99.00    99.00
10 11 13 10    15.0 1   309.0     1.50    10.30    99.00    99.00
10 11 13 11    15.0 1   303.0     1.00    12.10    99.00    99.00
10 11 13 12    15.0 1   310.0     1.50    14.10    99.00    99.00
10 11 13 13    15.0 1   323.0     1.50    15.10    99.00    99.00
10 11 13 14    15.0 1   321.0     1.50    16.00    99.00    99.00
10 11 13 15    15.0 1   335.0     1.50    16.40    99.00    99.00
10 11 13 16    15.0 1   344.0     1.50    16.40    99.00    99.00
10 11 13 17    15.0 1   350.0     1.00    15.60    99.00    99.00
10 11 13 18    15.0 1     0.0     0.00    14.50    99.00    99.00
10 11 13 19    15.0 1   153.0     0.50    13.10    99.00    99.00
10 11 13 20    15.0 1   167.0     1.00    12.00    99.00    99.00
10 11 13 21    15.0 1   169.0     1.00    11.10    99.00    99.00
10 11 13 22    15.0 1   132.0     0.50    10.40    99.00    99.00
10 11 13 23    15.0 1   114.0     0.50     9.80    99.00    99.00
10 11 13 24    15.0 1     0.0     0.00     9.10    99.00    99.00
10 11 14  1    15.0 1     0.0     0.00     8.80    99.00    99.00
10 11 14  2    15.0 1   262.0     0.50     8.40    99.00    99.00
10 11 14  3    15.0 1   247.0     1.00     8.10    99.00    99.00
10 11 14  4    15.0 1   263.0     1.50     8.10    99.00    99.00
10 11 14  5    15.0 1   260.0     2.10     8.00    99.00    99.00
10 11 14  6    15.0 1   268.0     2.10     7.90    99.00    99.00
10 11 14  7    15.0 1   262.0     2.10     7.80    99.00    99.00
10 11 14  8    15.0 1   255.0     2.10     7.80    99.00    99.00
10 11 14  9    15.0 1   277.0     1.50     9.60    99.00    99.00
10 11 14 10    15.0 1   282.0     1.50    11.60    99.00    99.00
10 11 14 11    15.0 1   272.0     1.00    13.50    99.00    99.00
10 11 14 12    15.0 1   279.0     1.00    15.40    99.00    99.00
10 11 14 13    15.0 1   304.0     1.00    16.40    99.00    99.00
10 11 14 14    15.0 1   320.0     1.50    17.00    99.00    99.00
10 11 14 15    15.0 1   318.0     1.50    17.30    99.00    99.00
10 11 14 16    15.0 1   333.0     1.50    17.30    99.00    99.00
10 11 14 17    15.0 1   352.0     0.50    16.60    99.00    99.00
10 11 14 18    15.0 1     0.0     0.00    15.40    99.00    99.00
10 11 14 19    15.0 1     0.0     0.00    14.10    99.00    99.00
10 11 14 20    15.0 1     0.0     0.00    13.10    99.00    99.00
10 11 14 21    15.0 1   108.0     0.50    12.10    99.00    99.00
10 11 14 22    15.0 1   121.0     0.50    11.50    99.00    99.00
10 11 14 23    15.0 1   131.0     1.00    11.00    99.00    99.00
10 11 14 24    15.0 1   118.0     1.00    10.50    99.00    99.00
10 11 15  1    15.0 1   124.0     1.00    10.10    99.00    99.00
10 11 15  2    15.0 1   128.0     1.00     9.80    99.00    99.00
10 11 15  3    15.0 1   152.0     0.50     9.60    99.00    99.00
10 11 15  4    15.0 1   201.0     0.50     9.30    99.00    99.00
10 11 15  5    15.0 1   233.0     1.00     9.10    99.00    99.00
10 11 15  6    15.0 1   227.0     1.00     8.80    99.00    99.00
10 11 15  7    15.0 1   235.0     1.00     8.60    99.00    99.00
10 11 15  8    15.0 1   212.0     1.50     8.60    99.00    99.00
10 11 15  9    15.0 1   216.0     0.50    10.60    99.00    99.00
10 11 15 10    15.0 1   194.0     0.50    12.80    99.00    99.00
10 11 15 11    15.0 1     0.0     0.00    14.90    99.00    99.00
10 11 15 12    15.0 1     0.0     0.00    16.60    99.00    99.00
10 11 15 13    15.0 1     0.0     0.00    17.60    99.00    99.00
10 11 15 14    15.0 1   334.0     1.00    18.50    99.00    99.00
10 11 15 15    15.0 1   349.0     1.50    18.90    99.00    99.00
10 11 15 16    15.0 1   356.0     2.10    18.80    99.00    99.00
10 11 15 17    15.0 1     8.0     2.10    18.00    99.00    99.00
10 11 15 18    15.0 1     0.0     0.00    16.80    99.00    99.00
10 11 15 19    15.0 1     0.0     0.00    15.50    99.00    99.00
10 11 15 20    15.0 1     0.0     0.00    14.40    99.00    99.00
10 11 15 21    15.0 1     0.0     0.00    13.40    99.00    99.00
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10 11 15 22    15.0 1     0.0     0.00    12.50    99.00    99.00
10 11 15 23    15.0 1     0.0     0.00    11.80    99.00    99.00
10 11 15 24    15.0 1     0.0     0.00    11.10    99.00    99.00
10 11 16  1    15.0 1     0.0     0.00    10.60    99.00    99.00
10 11 16  2    15.0 1     0.0     0.00    10.10    99.00    99.00
10 11 16  3    15.0 1     0.0     0.00     9.80    99.00    99.00
10 11 16  4    15.0 1     0.0     0.00     9.30    99.00    99.00
10 11 16  5    15.0 1     0.0     0.00     8.10    99.00    99.00
10 11 16  6    15.0 1     0.0     0.00     7.00    99.00    99.00
10 11 16  7    15.0 1     0.0     0.00     6.10    99.00    99.00
10 11 16  8    15.0 1     0.0     0.00     5.60    99.00    99.00
10 11 16  9    15.0 1     0.0     0.00     6.30    99.00    99.00
10 11 16 10    15.0 1     0.0     0.00     8.60    99.00    99.00
10 11 16 11    15.0 1     0.0     0.00    14.00    99.00    99.00
10 11 16 12    15.0 1     0.0     0.00    16.10    99.00    99.00
10 11 16 13    15.0 1     0.0     0.00    18.00    99.00    99.00
10 11 16 14    15.0 1   309.0     0.50    18.80    99.00    99.00
10 11 16 15    15.0 1   316.0     1.50    19.10    99.00    99.00
10 11 16 16    15.0 1   316.0     2.10    19.90    99.00    99.00
10 11 16 17    15.0 1   348.0     2.10    19.10    99.00    99.00
10 11 16 18    15.0 1   352.0     1.00    18.10    99.00    99.00
10 11 16 19    15.0 1     0.0     0.00    16.90    99.00    99.00
10 11 16 20    15.0 1     0.0     0.00    15.60    99.00    99.00
10 11 16 21    15.0 1   245.0     0.50    14.50    99.00    99.00
10 11 16 22    15.0 1     0.0     0.00    13.60    99.00    99.00
10 11 16 23    15.0 1   301.0     0.50    13.00    99.00    99.00
10 11 16 24    15.0 1   312.0     0.50    12.40    99.00    99.00
10 11 17  1    15.0 1   272.0     0.50    12.00    99.00    99.00
10 11 17  2    15.0 1   255.0     1.00    11.60    99.00    99.00
10 11 17  3    15.0 1   263.0     1.50    11.40    99.00    99.00
10 11 17  4    15.0 1   275.0     2.10    11.10    99.00    99.00
10 11 17  5    15.0 1   279.0     2.10    10.80    99.00    99.00
10 11 17  6    15.0 1   283.0     2.10    10.40    99.00    99.00
10 11 17  7    15.0 1   286.0     2.10    10.00    99.00    99.00
10 11 17  8    15.0 1   296.0     1.50     9.80    99.00    99.00
10 11 17  9    15.0 1   315.0     2.10    11.60    99.00    99.00
10 11 17 10    15.0 1   306.0     1.50    13.10    99.00    99.00
10 11 17 11    15.0 1   321.0     1.00    15.10    99.00    99.00
10 11 17 12    15.0 1   326.0     0.50    16.90    99.00    99.00
10 11 17 13    15.0 1   333.0     0.50    18.50    99.00    99.00
10 11 17 14    15.0 1   356.0     1.00    19.40    99.00    99.00
10 11 17 15    15.0 1    12.0     1.50    19.60    99.00    99.00
10 11 17 16    15.0 1    20.0     2.10    19.40    99.00    99.00
10 11 17 17    15.0 1    28.0     2.10    18.50    99.00    99.00
10 11 17 18    15.0 1    24.0     1.50    17.30    99.00    99.00
10 11 17 19    15.0 1     0.0     0.00    15.90    99.00    99.00
10 11 17 20    15.0 1     0.0     0.00    14.50    99.00    99.00
10 11 17 21    15.0 1     0.0     0.00    13.50    99.00    99.00
10 11 17 22    15.0 1     0.0     0.00    12.60    99.00    99.00
10 11 17 23    15.0 1   349.0     0.50    11.90    99.00    99.00
10 11 17 24    15.0 1   343.0     1.00    11.30    99.00    99.00
10 11 18  1    15.0 1   331.0     1.00    11.00    99.00    99.00
10 11 18  2    15.0 1   305.0     1.00    10.60    99.00    99.00
10 11 18  3    15.0 1   286.0     1.00    10.10    99.00    99.00
10 11 18  4    15.0 1   278.0     0.50     9.60    99.00    99.00
10 11 18  5    15.0 1     0.0     0.00     9.10    99.00    99.00
10 11 18  6    15.0 1   156.0     0.50     8.60    99.00    99.00
10 11 18  7    15.0 1   160.0     0.50     8.50    99.00    99.00
10 11 18  8    15.0 1    92.0     0.50     8.50    99.00    99.00
10 11 18  9    15.0 1     0.0     0.00    10.10    99.00    99.00
10 11 18 10    15.0 1     0.0     0.00    13.60    99.00    99.00
10 11 18 11    15.0 1     0.0     0.00    16.10    99.00    99.00
10 11 18 12    15.0 1     0.0     0.00    17.80    99.00    99.00
10 11 18 13    15.0 1     0.0     0.00    19.30    99.00    99.00
10 11 18 14    15.0 1   308.0     0.50    20.10    99.00    99.00
10 11 18 15    15.0 1   332.0     0.50    20.40    99.00    99.00
10 11 18 16    15.0 1   347.0     1.00    20.10    99.00    99.00
10 11 18 17    15.0 1     7.0     1.00    19.30    99.00    99.00
10 11 18 18    15.0 1     0.0     0.00    17.60    99.00    99.00
10 11 18 19    15.0 1     0.0     0.00    16.10    99.00    99.00
10 11 18 20    15.0 1   272.0     1.00    15.00    99.00    99.00
10 11 18 21    15.0 1   303.0     2.60    14.10    99.00    99.00
10 11 18 22    15.0 1   308.0     3.60    13.30    99.00    99.00
10 11 18 23    15.0 1   323.0     3.10    12.50    99.00    99.00
10 11 18 24    15.0 1   335.0     3.10    11.80    99.00    99.00
10 11 19  1    15.0 1   337.0     3.60    11.00    99.00    99.00
10 11 19  2    15.0 1   337.0     3.10    10.40    99.00    99.00
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10 11 19  3    15.0 1   346.0     2.60    10.10    99.00    99.00
10 11 19  4    15.0 1     5.0     2.10    10.00    99.00    99.00
10 11 19  5    15.0 1    12.0     1.50     9.90    99.00    99.00
10 11 19  6    15.0 1    28.0     1.50     9.80    99.00    99.00
10 11 19  7    15.0 1    27.0     1.50     9.60    99.00    99.00
10 11 19  8    15.0 1    29.0     1.50     9.50    99.00    99.00
10 11 19  9    15.0 1    24.0     2.10     9.60    99.00    99.00
10 11 19 10    15.0 1     0.0     0.00    11.10    99.00    99.00
10 11 19 11    15.0 1    15.0     1.50    12.50    99.00    99.00
10 11 19 12    15.0 1    23.0     1.50    13.80    99.00    99.00
10 11 19 13    15.0 1    33.0     1.50    14.50    99.00    99.00
10 11 19 14    15.0 1    47.0     2.10    14.90    99.00    99.00
10 11 19 15    15.0 1    55.0     3.10    14.90    99.00    99.00
10 11 19 16    15.0 1    52.0     3.10    14.10    99.00    99.00
10 11 19 17    15.0 1    46.0     3.10    13.40    99.00    99.00
10 11 19 18    15.0 1    52.0     2.10    13.10    99.00    99.00
10 11 19 19    15.0 1    25.0     1.00    12.90    99.00    99.00
10 11 19 20    15.0 1   354.0     0.50    12.60    99.00    99.00
10 11 19 21    15.0 1   346.0     0.50    12.50    99.00    99.00
10 11 19 22    15.0 1     0.0     0.00    12.30    99.00    99.00
10 11 19 23    15.0 1     0.0     0.00    12.00    99.00    99.00
10 11 19 24    15.0 1     0.0     0.00    11.80    99.00    99.00
10 11 20  1    15.0 1     0.0     0.00    11.60    99.00    99.00
10 11 20  2    15.0 1   309.0     0.50    11.60    99.00    99.00
10 11 20  3    15.0 1     2.0     1.00    10.90    99.00    99.00
10 11 20  4    15.0 1    82.0     2.10    10.40    99.00    99.00
10 11 20  5    15.0 1    89.0     3.10    10.30    99.00    99.00
10 11 20  6    15.0 1    96.0     3.10    10.10    99.00    99.00
10 11 20  7    15.0 1   119.0     3.10    10.10    99.00    99.00
10 11 20  8    15.0 1   138.0     3.10    10.10    99.00    99.00
10 11 20  9    15.0 1   130.0     3.10    10.50    99.00    99.00
10 11 20 10    15.0 1   135.0     2.60    11.30    99.00    99.00
10 11 20 11    15.0 1   132.0     0.50    13.40    99.00    99.00
10 11 20 12    15.0 1     0.0     0.00    14.80    99.00    99.00
10 11 20 13    15.0 1   165.0     0.50    15.40    99.00    99.00
10 11 20 14    15.0 1   206.0     1.00    15.50    99.00    99.00
10 11 20 15    15.0 1   234.0     2.10    15.10    99.00    99.00
10 11 20 16    15.0 1   225.0     2.10    14.80    99.00    99.00
10 11 20 17    15.0 1   223.0     2.10    14.50    99.00    99.00
10 11 20 18    15.0 1   247.0     3.60    13.90    99.00    99.00
10 11 20 19    15.0 1   245.0     3.60    12.60    99.00    99.00
10 11 20 20    15.0 1   212.0     3.10    12.00    99.00    99.00
10 11 20 21    15.0 1   169.0     3.60    11.40    99.00    99.00
10 11 20 22    15.0 1   152.0     4.10    10.90    99.00    99.00
10 11 20 23    15.0 1   154.0     4.60    10.80    99.00    99.00
10 11 20 24    15.0 1   147.0     4.60    10.90    99.00    99.00
10 11 21  1    15.0 1   148.0     4.10    10.90    99.00    99.00
10 11 21  2    15.0 1   143.0     4.10    11.00    99.00    99.00
10 11 21  3    15.0 1   130.0     3.60    11.00    99.00    99.00
10 11 21  4    15.0 1   176.0     1.50    11.10    99.00    99.00
10 11 21  5    15.0 1   248.0     4.10    10.80    99.00    99.00
10 11 21  6    15.0 1   257.0     4.10    10.80    99.00    99.00
10 11 21  7    15.0 1   284.0     3.60    10.60    99.00    99.00
10 11 21  8    15.0 1   309.0     3.10    10.30    99.00    99.00
10 11 21  9    15.0 1   344.0     3.10    10.50    99.00    99.00
10 11 21 10    15.0 1   348.0     3.10    10.60    99.00    99.00
10 11 21 11    15.0 1   348.0     2.60    11.10    99.00    99.00
10 11 21 12    15.0 1   326.0     3.10    12.30    99.00    99.00
10 11 21 13    15.0 1   334.0     2.60    12.90    99.00    99.00
10 11 21 14    15.0 1   319.0     2.10    13.30    99.00    99.00
10 11 21 15    15.0 1   325.0     2.10    13.40    99.00    99.00
10 11 21 16    15.0 1    42.0     2.10    12.40    99.00    99.00
10 11 21 17    15.0 1    62.0     1.00    12.00    99.00    99.00
10 11 21 18    15.0 1   192.0     1.00    11.50    99.00    99.00
10 11 21 19    15.0 1   198.0     3.60    10.60    99.00    99.00
10 11 21 20    15.0 1   201.0     4.10     9.80    99.00    99.00
10 11 21 21    15.0 1   209.0     3.10     9.40    99.00    99.00
10 11 21 22    15.0 1   242.0     2.60     8.60    99.00    99.00
10 11 21 23    15.0 1   257.0     2.60     7.90    99.00    99.00
10 11 21 24    15.0 1   277.0     2.10     7.30    99.00    99.00
10 11 22  1    15.0 1   288.0     1.50     6.90    99.00    99.00
10 11 22  2    15.0 1   295.0     1.00     6.60    99.00    99.00
10 11 22  3    15.0 1   274.0     1.50     6.30    99.00    99.00
10 11 22  4    15.0 1   268.0     2.10     5.80    99.00    99.00
10 11 22  5    15.0 1   271.0     2.60     5.40    99.00    99.00
10 11 22  6    15.0 1   270.0     2.10     5.00    99.00    99.00
10 11 22  7    15.0 1   262.0     1.50     4.60    99.00    99.00
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10 11 22  8    15.0 1   204.0     0.50     4.10    99.00    99.00
10 11 22  9    15.0 1   114.0     0.50     4.10    99.00    99.00
10 11 22 10    15.0 1   123.0     1.00     6.50    99.00    99.00
10 11 22 11    15.0 1   138.0     1.00     9.00    99.00    99.00
10 11 22 12    15.0 1   151.0     0.50    10.40    99.00    99.00
10 11 22 13    15.0 1     0.0     0.00    11.40    99.00    99.00
10 11 22 14    15.0 1     0.0     0.00    12.00    99.00    99.00
10 11 22 15    15.0 1     0.0     0.00    12.30    99.00    99.00
10 11 22 16    15.0 1     0.0     0.00    12.30    99.00    99.00
10 11 22 17    15.0 1     0.0     0.00    11.80    99.00    99.00
10 11 22 18    15.0 1     0.0     0.00    10.60    99.00    99.00
10 11 22 19    15.0 1   158.0     1.00     9.50    99.00    99.00
10 11 22 20    15.0 1   165.0     2.60     8.50    99.00    99.00
10 11 22 21    15.0 1   160.0     3.10     7.80    99.00    99.00
10 11 22 22    15.0 1   155.0     2.60     7.10    99.00    99.00
10 11 22 23    15.0 1   173.0     2.10     6.80    99.00    99.00
10 11 22 24    15.0 1   174.0     1.50     6.60    99.00    99.00
10 11 23  1    15.0 1   160.0     2.10     6.60    99.00    99.00
10 11 23  2    15.0 1   151.0     2.10     6.60    99.00    99.00
10 11 23  3    15.0 1   145.0     2.60     6.60    99.00    99.00
10 11 23  4    15.0 1   141.0     3.10     6.80    99.00    99.00
10 11 23  5    15.0 1   140.0     3.10     6.60    99.00    99.00
10 11 23  6    15.0 1   142.0     3.10     6.80    99.00    99.00
10 11 23  7    15.0 1   141.0     3.60     7.00    99.00    99.00
10 11 23  8    15.0 1   145.0     3.60     7.30    99.00    99.00
10 11 23  9    15.0 1   141.0     4.60     8.30    99.00    99.00
10 11 23 10    15.0 1   144.0     4.60     9.60    99.00    99.00
10 11 23 11    15.0 1   136.0     4.60    10.60    99.00    99.00
10 11 23 12    15.0 1   163.0     3.10    11.80    99.00    99.00
10 11 23 13    15.0 1   194.0     1.00    12.10    99.00    99.00
10 11 23 14    15.0 1    62.0     1.00    11.60    99.00    99.00
10 11 23 15    15.0 1    62.0     1.50    11.10    99.00    99.00
10 11 23 16    15.0 1    73.0     1.00    10.90    99.00    99.00
10 11 23 17    15.0 1   178.0     0.50    11.10    99.00    99.00
10 11 23 18    15.0 1   259.0     2.60    11.10    99.00    99.00
10 11 23 19    15.0 1   305.0     5.70    10.00    99.00    99.00
10 11 23 20    15.0 1   327.0     5.10     8.80    99.00    99.00
10 11 23 21    15.0 1   343.0     4.60     8.30    99.00    99.00
10 11 23 22    15.0 1   339.0     4.10     8.00    99.00    99.00
10 11 23 23    15.0 1   326.0     4.10     7.00    99.00    99.00
10 11 23 24    15.0 1   312.0     4.10     6.00    99.00    99.00
10 11 24  1    15.0 1   309.0     3.60     5.10    99.00    99.00
10 11 24  2    15.0 1   314.0     3.10     4.50    99.00    99.00
10 11 24  3    15.0 1   316.0     3.10     4.00    99.00    99.00
10 11 24  4    15.0 1   327.0     2.60     3.50    99.00    99.00
10 11 24  5    15.0 1   331.0     2.60     2.90    99.00    99.00
10 11 24  6    15.0 1   318.0     2.60     2.40    99.00    99.00
10 11 24  7    15.0 1   306.0     2.10     1.90    99.00    99.00
10 11 24  8    15.0 1   297.0     2.10     1.50    99.00    99.00
10 11 24  9    15.0 1   340.0     3.60     2.80    99.00    99.00
10 11 24 10    15.0 1   341.0     2.60     4.10    99.00    99.00
10 11 24 11    15.0 1   331.0     2.60     5.10    99.00    99.00
10 11 24 12    15.0 1   334.0     3.10     5.90    99.00    99.00
10 11 24 13    15.0 1   329.0     3.60     6.60    99.00    99.00
10 11 24 14    15.0 1   326.0     3.60     7.30    99.00    99.00
10 11 24 15    15.0 1   337.0     3.60     7.50    99.00    99.00
10 11 24 16    15.0 1   348.0     3.10     7.30    99.00    99.00
10 11 24 17    15.0 1     0.0     0.00     6.60    99.00    99.00
10 11 24 18    15.0 1   347.0     1.50     5.90    99.00    99.00
10 11 24 19    15.0 1   337.0     1.00     5.10    99.00    99.00
10 11 24 20    15.0 1   319.0     0.50     4.10    99.00    99.00
10 11 24 21    15.0 1   306.0     0.50     3.10    99.00    99.00
10 11 24 22    15.0 1   325.0     0.50     2.30    99.00    99.00
10 11 24 23    15.0 1   295.0     0.50     1.50    99.00    99.00
10 11 24 24    15.0 1   271.0     1.50     1.00    99.00    99.00
10 11 25  1    15.0 1   285.0     2.60     0.50    99.00    99.00
10 11 25  2    15.0 1   279.0     2.60     0.10    99.00    99.00
10 11 25  3    15.0 1   280.0     2.10    -0.30    99.00    99.00
10 11 25  4    15.0 1   271.0     2.60    -0.60    99.00    99.00
10 11 25  5    15.0 1   256.0     3.10    -1.00    99.00    99.00
10 11 25  6    15.0 1   265.0     3.60    -1.50    99.00    99.00
10 11 25  7    15.0 1   271.0     3.60    -2.00    99.00    99.00
10 11 25  8    15.0 1   279.0     3.10    -2.00    99.00    99.00
10 11 25  9    15.0 1   307.0     3.60    -0.30    99.00    99.00
10 11 25 10    15.0 1   310.0     2.60     1.10    99.00    99.00
10 11 25 11    15.0 1   311.0     1.50     3.10    99.00    99.00
10 11 25 12    15.0 1   322.0     1.50     4.30    99.00    99.00
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10 11 25 13     15.0 1    334.0      1.50      5.40     99.00     99.00
10 11 25 14     15.0 1    329.0      1.50      6.10     99.00     99.00
10 11 25 15     15.0 1    353.0      2.10      6.60     99.00     99.00
10 11 25 16     15.0 1     15.0      2.10      6.60     99.00     99.00
10 11 25 17     15.0 1      8.0      1.50      6.00     99.00     99.00
10 11 25 18     15.0 1    324.0      0.50      5.00     99.00     99.00
10 11 25 19     15.0 1    320.0      0.50      4.00     99.00     99.00
10 11 25 20     15.0 1      0.0      0.00      3.10     99.00     99.00
10 11 25 21     15.0 1      0.0      0.00      2.30     99.00     99.00
10 11 25 22     15.0 1     24.0      0.50      1.50     99.00     99.00
10 11 25 23     15.0 1    347.0      0.50      0.90     99.00     99.00
10 11 25 24     15.0 1    351.0      0.50      0.40     99.00     99.00
10 11 26  1     15.0 1    346.0      1.00      0.00     99.00     99.00
10 11 26  2     15.0 1    353.0      1.50     -0.40     99.00     99.00
10 11 26  3     15.0 1    334.0      1.00     -0.90     99.00     99.00
10 11 26  4     15.0 1    312.0      1.00     -1.30     99.00     99.00
10 11 26  5     15.0 1    307.0      1.00     -1.50     99.00     99.00
10 11 26  6     15.0 1    316.0      1.00     -1.80     99.00     99.00
10 11 26  7     15.0 1    313.0      0.50     -2.10     99.00     99.00
10 11 26  8     15.0 1      0.0      0.00     -2.40     99.00     99.00
10 11 26  9     15.0 1      0.0      0.00     -0.10     99.00     99.00
10 11 26 10     15.0 1    305.0      1.00      2.50     99.00     99.00
10 11 26 11     15.0 1    321.0      0.50      4.60     99.00     99.00
10 11 26 12     15.0 1    331.0      0.50      6.40     99.00     99.00
10 11 26 13     15.0 1      0.0      0.00      8.10     99.00     99.00
10 11 26 14     15.0 1    342.0      0.50      9.50     99.00     99.00
10 11 26 15     15.0 1    345.0      1.00     10.00     99.00     99.00
10 11 26 16     15.0 1      5.0      1.00     11.00     99.00     99.00
10 11 26 17     15.0 1     14.0      0.50     10.10     99.00     99.00
10 11 26 18     15.0 1      0.0      0.00      8.60     99.00     99.00
10 11 26 19     15.0 1      0.0      0.00      7.40     99.00     99.00
10 11 26 20     15.0 1      0.0      0.00      6.40     99.00     99.00
10 11 26 21     15.0 1      0.0      0.00      5.40     99.00     99.00
10 11 26 22     15.0 1      0.0      0.00      4.60     99.00     99.00
10 11 26 23     15.0 1      0.0      0.00      4.10     99.00     99.00
10 11 26 24     15.0 1      0.0      0.00      3.50     99.00     99.00
10 11 27  1     15.0 1     99.0      0.50      2.80     99.00     99.00
10 11 27  2     15.0 1    119.0      0.50      2.40     99.00     99.00
10 11 27  3     15.0 1    134.0      0.50      2.10     99.00     99.00
10 11 27  4     15.0 1    131.0      1.00      1.90     99.00     99.00
10 11 27  5     15.0 1    129.0      1.00      1.90     99.00     99.00
10 11 27  6     15.0 1    132.0      1.00      2.10     99.00     99.00
10 11 27  7     15.0 1    123.0      1.50      2.40     99.00     99.00
10 11 27  8     15.0 1    122.0      1.50      2.90     99.00     99.00
10 11 27  9     15.0 1    116.0      1.00      3.40     99.00     99.00
10 11 27 10     15.0 1     52.0      0.50      4.10     99.00     99.00
10 11 27 11     15.0 1     25.0      0.50      5.30     99.00     99.00
10 11 27 12     15.0 1    347.0      0.50      5.90     99.00     99.00
10 11 27 13     15.0 1    138.0      0.50      5.60     99.00     99.00
10 11 27 14     15.0 1    151.0      2.10      5.90     99.00     99.00
10 11 27 15     15.0 1    148.0      2.60      6.10     99.00     99.00
10 11 27 16     15.0 1    124.0      2.10      6.10     99.00     99.00
10 11 27 17     15.0 1     98.0      1.50      6.10     99.00     99.00
10 11 27 18     15.0 1     82.0      1.50      6.10     99.00     99.00
10 11 27 19     15.0 1    125.0      1.50      6.00     99.00     99.00
10 11 27 20     15.0 1    130.0      2.10      6.00     99.00     99.00
10 11 27 21     15.0 1    162.0      1.50      6.40     99.00     99.00
10 11 27 22     15.0 1    215.0      1.00      6.50     99.00     99.00
10 11 27 23     15.0 1    238.0      1.50      6.10     99.00     99.00
10 11 27 24     15.0 1    285.0      3.60      5.50     99.00     99.00
10 11 28  1     15.0 1    304.0      4.60      4.60     99.00     99.00
10 11 28  2     15.0 1    335.0      4.60      3.60     99.00     99.00
10 11 28  3     15.0 1    339.0      4.60      3.60     99.00     99.00
10 11 28  4     15.0 1    327.0      3.10      3.90     99.00     99.00
10 11 28  5     15.0 1    294.0      2.10      4.10     99.00     99.00
10 11 28  6     15.0 1    292.0      3.60      4.10     99.00     99.00
10 11 28  7     15.0 1    297.0      3.60      4.30     99.00     99.00
10 11 28  8     15.0 1    300.0      2.60      4.50     99.00     99.00
10 11 28  9     15.0 1    319.0      3.10      4.50     99.00     99.00
10 11 28 10     15.0 1    311.0      2.60      4.40     99.00     99.00
10 11 28 11     15.0 1    314.0      2.60      4.10     99.00     99.00
10 11 28 12     15.0 1    311.0      2.10      4.50     99.00     99.00
10 11 28 13     15.0 1    349.0      1.50      5.80     99.00     99.00
10 11 28 14     15.0 1      7.0      1.50      7.60     99.00     99.00
10 11 28 15     15.0 1     10.0      2.10      8.90     99.00     99.00
10 11 28 16     15.0 1     39.0      1.00      9.10     99.00     99.00
10 11 28 17     15.0 1    140.0      1.00      8.60     99.00     99.00
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10 11 28 18     15.0 1   155.0      1.00      7.60     99.00     99.00
10 11 28 19     15.0 1   154.0      1.50      6.40     99.00     99.00
10 11 28 20     15.0 1   146.0      2.60      5.40     99.00     99.00
10 11 28 21     15.0 1   159.0      2.10      4.60     99.00     99.00
10 11 28 22     15.0 1   169.0      1.50      4.00     99.00     99.00
10 11 28 23     15.0 1   188.0      1.00      3.50     99.00     99.00
10 11 28 24     15.0 1   216.0      1.00      3.10     99.00     99.00
10 11 29  1     15.0 1   250.0      1.50      2.60     99.00     99.00
10 11 29  2     15.0 1   272.0      1.50      2.10     99.00     99.00
10 11 29  3     15.0 1   276.0      2.10      1.40     99.00     99.00
10 11 29  4     15.0 1   286.0      2.60      0.90     99.00     99.00
10 11 29  5     15.0 1   288.0      2.60      0.50     99.00     99.00
10 11 29  6     15.0 1   295.0      2.60      0.10     99.00     99.00
10 11 29  7     15.0 1   280.0      2.60     -0.30     99.00     99.00
10 11 29  8     15.0 1   284.0      1.50     -0.40     99.00     99.00
10 11 29  9     15.0 1   323.0      1.00      1.40     99.00     99.00
10 11 29 10     15.0 1     0.0      0.00      3.00     99.00     99.00
10 11 29 11     15.0 1     0.0      0.00      4.60     99.00     99.00
10 11 29 12     15.0 1   254.0      0.50      5.90     99.00     99.00
10 11 29 13     15.0 1   282.0      0.50      7.10     99.00     99.00
10 11 29 14     15.0 1   307.0      1.00      8.10     99.00     99.00
10 11 29 15     15.0 1   335.0      1.50      8.60     99.00     99.00
10 11 29 16     15.0 1   353.0      2.10      8.50     99.00     99.00
10 11 29 17     15.0 1    13.0      2.10      7.80     99.00     99.00
10 11 29 18     15.0 1    26.0      1.00      6.80     99.00     99.00
10 11 29 19     15.0 1     0.0      0.00      5.60     99.00     99.00
10 11 29 20     15.0 1     0.0      0.00      4.60     99.00     99.00
10 11 29 21     15.0 1     0.0      0.00      3.60     99.00     99.00
10 11 29 22     15.0 1    38.0      0.50      3.00     99.00     99.00
10 11 29 23     15.0 1     0.0      0.00      2.50     99.00     99.00
10 11 29 24     15.0 1     0.0      0.00      2.00     99.00     99.00
10 11 30  1     15.0 1     0.0      0.00      1.60     99.00     99.00
10 11 30  2     15.0 1   352.0      0.50      1.30     99.00     99.00
10 11 30  3     15.0 1   342.0      0.50      0.90     99.00     99.00
10 11 30  4     15.0 1   330.0      1.00      0.60     99.00     99.00
10 11 30  5     15.0 1   328.0      1.00      0.30     99.00     99.00
10 11 30  6     15.0 1   317.0      1.00      0.00     99.00     99.00
10 11 30  7     15.0 1   311.0      1.00     -0.30     99.00     99.00
10 11 30  8     15.0 1   304.0      1.00     -0.30     99.00     99.00
10 11 30  9     15.0 1   306.0      1.00      0.60     99.00     99.00
10 11 30 10     15.0 1   308.0      1.50      3.30     99.00     99.00
10 11 30 11     15.0 1   316.0      1.50      4.80     99.00     99.00
10 11 30 12     15.0 1   335.0      1.50      6.30     99.00     99.00
10 11 30 13     15.0 1   328.0      1.50      7.10     99.00     99.00
10 11 30 14     15.0 1   332.0      2.10      7.60     99.00     99.00
10 11 30 15     15.0 1   328.0      2.10      7.50     99.00     99.00
10 11 30 16     15.0 1   326.0      1.50      7.10     99.00     99.00
10 11 30 17     15.0 1   344.0      1.00      6.60     99.00     99.00
10 11 30 18     15.0 1   326.0      0.50      6.10     99.00     99.00
10 11 30 19     15.0 1     0.0      0.00      5.60     99.00     99.00
10 11 30 20     15.0 1     0.0      0.00      5.10     99.00     99.00
10 11 30 21     15.0 1    11.0      0.50      4.60     99.00     99.00
10 11 30 22     15.0 1    14.0      0.50      4.30     99.00     99.00
10 11 30 23     15.0 1    10.0      0.50      3.80     99.00     99.00
10 11 30 24     15.0 1     4.0      0.50      3.30     99.00     99.00
10 12  1  1     15.0 1     0.0      0.00      2.80     99.00     99.00
10 12  1  2     15.0 1     0.0      0.00      2.30     99.00     99.00
10 12  1  3     15.0 1     0.0      0.00      1.80     99.00     99.00
10 12  1  4     15.0 1     0.0      0.00      1.30     99.00     99.00
10 12  1  5     15.0 1    91.0      0.50      0.90     99.00     99.00
10 12  1  6     15.0 1    89.0      0.50      0.60     99.00     99.00
10 12  1  7     15.0 1    95.0      0.50      0.30     99.00     99.00
10 12  1  8     15.0 1    90.0      0.50      0.10     99.00     99.00
10 12  1  9     15.0 1     0.0      0.00      2.00     99.00     99.00
10 12  1 10     15.0 1     0.0      0.00      5.80     99.00     99.00
10 12  1 11     15.0 1     0.0      0.00      8.10     99.00     99.00
10 12  1 12     15.0 1     0.0      0.00      9.80     99.00     99.00
10 12  1 13     15.0 1     0.0      0.00     11.10     99.00     99.00
10 12  1 14     15.0 1     0.0      0.00     12.10     99.00     99.00
10 12  1 15     15.0 1     0.0      0.00     12.60     99.00     99.00
10 12  1 16     15.0 1     0.0      0.00     14.10     99.00     99.00
10 12  1 17     15.0 1     0.0      0.00     13.40     99.00     99.00
10 12  1 18     15.0 1     0.0      0.00     12.10     99.00     99.00
10 12  1 19     15.0 1     0.0      0.00     11.00     99.00     99.00
10 12  1 20     15.0 1     0.0      0.00     10.00     99.00     99.00
10 12  1 21     15.0 1     0.0      0.00      9.10     99.00     99.00
10 12  1 22     15.0 1     0.0      0.00      8.50     99.00     99.00
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10 12  1 23    15.0 1     0.0     0.00     8.00    99.00    99.00
10 12  1 24    15.0 1     0.0     0.00     7.60    99.00    99.00
10 12  2  1    15.0 1     0.0     0.00     7.10    99.00    99.00
10 12  2  2    15.0 1     0.0     0.00     6.80    99.00    99.00
10 12  2  3    15.0 1     0.0     0.00     6.50    99.00    99.00
10 12  2  4    15.0 1     0.0     0.00     6.30    99.00    99.00
10 12  2  5    15.0 1     0.0     0.00     6.40    99.00    99.00
10 12  2  6    15.0 1     0.0     0.00     6.50    99.00    99.00
10 12  2  7    15.0 1     0.0     0.00     6.60    99.00    99.00
10 12  2  8    15.0 1     0.0     0.00     6.60    99.00    99.00
10 12  2  9    15.0 1     0.0     0.00     7.00    99.00    99.00
10 12  2 10    15.0 1     1.0     0.50     8.50    99.00    99.00
10 12  2 11    15.0 1   345.0     0.50    10.00    99.00    99.00
10 12  2 12    15.0 1   344.0     0.50    10.90    99.00    99.00
10 12  2 13    15.0 1   328.0     0.50    11.80    99.00    99.00
10 12  2 14    15.0 1   344.0     1.00    12.40    99.00    99.00
10 12  2 15    15.0 1     4.0     1.50    12.50    99.00    99.00
10 12  2 16    15.0 1    12.0     1.50    12.10    99.00    99.00
10 12  2 17    15.0 1    19.0     1.00    11.50    99.00    99.00
10 12  2 18    15.0 1     0.0     0.00    11.00    99.00    99.00
10 12  2 19    15.0 1     0.0     0.00    10.50    99.00    99.00
10 12  2 20    15.0 1     0.0     0.00    10.10    99.00    99.00
10 12  2 21    15.0 1     0.0     0.00     9.80    99.00    99.00
10 12  2 22    15.0 1     0.0     0.00     9.60    99.00    99.00
10 12  2 23    15.0 1     0.0     0.00     9.50    99.00    99.00
10 12  2 24    15.0 1     0.0     0.00     9.40    99.00    99.00
10 12  3  1    15.0 1     0.0     0.00     9.30    99.00    99.00
10 12  3  2    15.0 1     0.0     0.00     9.10    99.00    99.00
10 12  3  3    15.0 1     0.0     0.00     9.10    99.00    99.00
10 12  3  4    15.0 1     0.0     0.00     9.10    99.00    99.00
10 12  3  5    15.0 1     0.0     0.00     9.10    99.00    99.00
10 12  3  6    15.0 1     0.0     0.00     9.10    99.00    99.00
10 12  3  7    15.0 1     0.0     0.00     9.10    99.00    99.00
10 12  3  8    15.0 1     0.0     0.00     9.10    99.00    99.00
10 12  3  9    15.0 1     0.0     0.00     9.30    99.00    99.00
10 12  3 10    15.0 1     0.0     0.00    10.30    99.00    99.00
10 12  3 11    15.0 1     0.0     0.00    11.90    99.00    99.00
10 12  3 12    15.0 1     0.0     0.00    13.30    99.00    99.00
10 12  3 13    15.0 1   326.0     0.50    13.90    99.00    99.00
10 12  3 14    15.0 1   347.0     1.00    14.10    99.00    99.00
10 12  3 15    15.0 1    21.0     1.00    14.10    99.00    99.00
10 12  3 16    15.0 1    36.0     1.50    13.80    99.00    99.00
10 12  3 17    15.0 1    39.0     1.50    13.40    99.00    99.00
10 12  3 18    15.0 1     0.0     0.00    13.00    99.00    99.00
10 12  3 19    15.0 1   290.0     0.50    12.60    99.00    99.00
10 12  3 20    15.0 1   334.0     0.50    12.40    99.00    99.00
10 12  3 21    15.0 1   338.0     1.00    12.30    99.00    99.00
10 12  3 22    15.0 1   353.0     1.50    12.30    99.00    99.00
10 12  3 23    15.0 1   352.0     2.10    12.10    99.00    99.00
10 12  3 24    15.0 1   345.0     2.10    12.10    99.00    99.00
10 12  4  1    15.0 1   349.0     2.60    12.10    99.00    99.00
10 12  4  2    15.0 1   359.0     2.10    12.10    99.00    99.00
10 12  4  3    15.0 1     8.0     2.10    12.10    99.00    99.00
10 12  4  4    15.0 1    26.0     2.10    12.10    99.00    99.00
10 12  4  5    15.0 1    29.0     2.10    12.00    99.00    99.00
10 12  4  6    15.0 1    28.0     1.50    12.00    99.00    99.00
10 12  4  7    15.0 1    50.0     1.00    12.10    99.00    99.00
10 12  4  8    15.0 1   117.0     2.10    12.60    99.00    99.00
10 12  4  9    15.0 1   144.0     4.60    13.30    99.00    99.00
10 12  4 10    15.0 1   141.0     6.70    14.80    99.00    99.00
10 12  4 11    15.0 1   140.0     5.70    16.10    99.00    99.00
10 12  4 12    15.0 1   143.0     5.70    17.10    99.00    99.00
10 12  4 13    15.0 1   132.0     6.20    18.10    99.00    99.00
10 12  4 14    15.0 1   132.0     4.60    18.10    99.00    99.00
10 12  4 15    15.0 1   117.0     3.10    18.50    99.00    99.00
10 12  4 16    15.0 1    97.0     1.50    18.50    99.00    99.00
10 12  4 17    15.0 1    84.0     1.50    18.10    99.00    99.00
10 12  4 18    15.0 1    97.0     1.50    17.60    99.00    99.00
10 12  4 19    15.0 1   132.0     3.10    16.80    99.00    99.00
10 12  4 20    15.0 1   140.0     4.10    15.80    99.00    99.00
10 12  4 21    15.0 1   138.0     4.10    15.40    99.00    99.00
10 12  4 22    15.0 1   139.0     3.60    15.30    99.00    99.00
10 12  4 23    15.0 1   137.0     2.60    15.10    99.00    99.00
10 12  4 24    15.0 1   138.0     1.50    14.60    99.00    99.00
10 12  5  1    15.0 1     0.0     0.00    14.30    99.00    99.00
10 12  5  2    15.0 1   333.0     1.50    13.60    99.00    99.00
10 12  5  3    15.0 1   344.0     3.10    12.60    99.00    99.00
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10 12  5  4    15.0 1     1.0     3.60    12.00    99.00    99.00
10 12  5  5    15.0 1     0.0     0.00    11.50    99.00    99.00
10 12  5  6    15.0 1     0.0     0.00    11.10    99.00    99.00
10 12  5  7    15.0 1   332.0     0.50    10.90    99.00    99.00
10 12  5  8    15.0 1   195.0     0.50    10.90    99.00    99.00
10 12  5  9    15.0 1   162.0     1.00    11.50    99.00    99.00
10 12  5 10    15.0 1   157.0     1.50    13.10    99.00    99.00
10 12  5 11    15.0 1   153.0     2.60    15.80    99.00    99.00
10 12  5 12    15.0 1   152.0     2.60    17.80    99.00    99.00
10 12  5 13    15.0 1   148.0     3.10    19.10    99.00    99.00
10 12  5 14    15.0 1   140.0     4.60    19.60    99.00    99.00
10 12  5 15    15.0 1   144.0     6.70    18.90    99.00    99.00
10 12  5 16    15.0 1   136.0     7.70    17.80    99.00    99.00
10 12  5 17    15.0 1   138.0     7.70    17.10    99.00    99.00
10 12  5 18    15.0 1   137.0     6.70    16.50    99.00    99.00
10 12  5 19    15.0 1   155.0     6.20    16.30    99.00    99.00
10 12  5 20    15.0 1   151.0     5.70    16.10    99.00    99.00
10 12  5 21    15.0 1   155.0     5.10    16.00    99.00    99.00
10 12  5 22    15.0 1   146.0     4.60    15.60    99.00    99.00
10 12  5 23    15.0 1   146.0     4.60    15.40    99.00    99.00
10 12  5 24    15.0 1   140.0     4.10    15.30    99.00    99.00
10 12  6  1    15.0 1   120.0     3.10    14.90    99.00    99.00
10 12  6  2    15.0 1   164.0     0.50    14.60    99.00    99.00
10 12  6  3    15.0 1   338.0     1.50    13.80    99.00    99.00
10 12  6  4    15.0 1   338.0     2.60    13.10    99.00    99.00
10 12  6  5    15.0 1   344.0     3.60    12.50    99.00    99.00
10 12  6  6    15.0 1   358.0     3.60    11.80    99.00    99.00
10 12  6  7    15.0 1    24.0     3.60    11.30    99.00    99.00
10 12  6  8    15.0 1    36.0     3.10    11.10    99.00    99.00
10 12  6  9    15.0 1     4.0     1.00    11.90    99.00    99.00
10 12  6 10    15.0 1   296.0     1.50    13.10    99.00    99.00
10 12  6 11    15.0 1   302.0     0.50    13.80    99.00    99.00
10 12  6 12    15.0 1     0.0     0.00    14.30    99.00    99.00
10 12  6 13    15.0 1     0.0     0.00    14.80    99.00    99.00
10 12  6 14    15.0 1     0.0     0.00    15.50    99.00    99.00
10 12  6 15    15.0 1   258.0     0.50    16.00    99.00    99.00
10 12  6 16    15.0 1   308.0     1.50    16.30    99.00    99.00
10 12  6 17    15.0 1    18.0     1.50    15.60    99.00    99.00
10 12  6 18    15.0 1    31.0     1.50    14.80    99.00    99.00
10 12  6 19    15.0 1    42.0     1.00    13.80    99.00    99.00
10 12  6 20    15.0 1    74.0     0.50    12.60    99.00    99.00
10 12  6 21    15.0 1   109.0     0.50    11.60    99.00    99.00
10 12  6 22    15.0 1   153.0     0.50    10.90    99.00    99.00
10 12  6 23    15.0 1     0.0     0.00    10.10    99.00    99.00
10 12  6 24    15.0 1     0.0     0.00     8.60    99.00    99.00
10 12  7  1    15.0 1     0.0     0.00     7.50    99.00    99.00
10 12  7  2    15.0 1     0.0     0.00     7.60    99.00    99.00
10 12  7  3    15.0 1   340.0     0.50     7.60    99.00    99.00
10 12  7  4    15.0 1     0.0     0.00     7.60    99.00    99.00
10 12  7  5    15.0 1     0.0     0.00     7.60    99.00    99.00
10 12  7  6    15.0 1     0.0     0.00     7.60    99.00    99.00
10 12  7  7    15.0 1   265.0     0.50     7.40    99.00    99.00
10 12  7  8    15.0 1   270.0     0.50     7.10    99.00    99.00
10 12  7  9    15.0 1     0.0     0.00     7.40    99.00    99.00
10 12  7 10    15.0 1     0.0     0.00     8.60    99.00    99.00
10 12  7 11    15.0 1     0.0     0.00    10.60    99.00    99.00
10 12  7 12    15.0 1   336.0     0.50    12.90    99.00    99.00
10 12  7 13    15.0 1   329.0     1.00    14.30    99.00    99.00
10 12  7 14    15.0 1   334.0     1.50    14.90    99.00    99.00
10 12  7 15    15.0 1   344.0     2.10    15.00    99.00    99.00
10 12  7 16    15.0 1     2.0     2.10    14.60    99.00    99.00
10 12  7 17    15.0 1    23.0     1.50    13.90    99.00    99.00
10 12  7 18    15.0 1    21.0     0.50    12.90    99.00    99.00
10 12  7 19    15.0 1     0.0     0.00    11.90    99.00    99.00
10 12  7 20    15.0 1     0.0     0.00    11.10    99.00    99.00
10 12  7 21    15.0 1    36.0     0.50    10.40    99.00    99.00
10 12  7 22    15.0 1     0.0     0.00     9.90    99.00    99.00
10 12  7 23    15.0 1     0.0     0.00     9.40    99.00    99.00
10 12  7 24    15.0 1     0.0     0.00     9.00    99.00    99.00
10 12  8  1    15.0 1     0.0     0.00     8.80    99.00    99.00
10 12  8  2    15.0 1     0.0     0.00     8.60    99.00    99.00
10 12  8  3    15.0 1     0.0     0.00     8.60    99.00    99.00
10 12  8  4    15.0 1     0.0     0.00     8.60    99.00    99.00
10 12  8  5    15.0 1     0.0     0.00     8.50    99.00    99.00
10 12  8  6    15.0 1     0.0     0.00     8.40    99.00    99.00
10 12  8  7    15.0 1     0.0     0.00     8.30    99.00    99.00
10 12  8  8    15.0 1     0.0     0.00     8.10    99.00    99.00
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10 12  8  9    15.0 1     0.0     0.00     8.30    99.00    99.00
10 12  8 10    15.0 1     0.0     0.00     9.10    99.00    99.00
10 12  8 11    15.0 1     0.0     0.00    11.00    99.00    99.00
10 12  8 12    15.0 1   176.0     0.50    12.30    99.00    99.00
10 12  8 13    15.0 1   196.0     1.00    13.00    99.00    99.00
10 12  8 14    15.0 1   205.0     0.50    13.40    99.00    99.00
10 12  8 15    15.0 1    76.0     0.50    13.50    99.00    99.00
10 12  8 16    15.0 1    67.0     1.00    13.30    99.00    99.00
10 12  8 17    15.0 1    76.0     1.00    12.80    99.00    99.00
10 12  8 18    15.0 1   126.0     0.50    12.40    99.00    99.00
10 12  8 19    15.0 1   165.0     0.50    12.10    99.00    99.00
10 12  8 20    15.0 1   152.0     0.50    11.80    99.00    99.00
10 12  8 21    15.0 1     0.0     0.00    11.60    99.00    99.00
10 12  8 22    15.0 1     0.0     0.00    11.40    99.00    99.00
10 12  8 23    15.0 1    68.0     0.50    11.10    99.00    99.00
10 12  8 24    15.0 1    73.0     0.50    11.00    99.00    99.00
10 12  9  1    15.0 1     0.0     0.00    10.80    99.00    99.00
10 12  9  2    15.0 1     0.0     0.00    10.60    99.00    99.00
10 12  9  3    15.0 1     0.0     0.00    10.60    99.00    99.00
10 12  9  4    15.0 1     0.0     0.00    10.50    99.00    99.00
10 12  9  5    15.0 1     0.0     0.00    10.50    99.00    99.00
10 12  9  6    15.0 1     0.0     0.00    10.50    99.00    99.00
10 12  9  7    15.0 1     0.0     0.00    10.50    99.00    99.00
10 12  9  8    15.0 1     0.0     0.00    10.50    99.00    99.00
10 12  9  9    15.0 1     0.0     0.00    10.60    99.00    99.00
10 12  9 10    15.0 1     0.0     0.00    11.30    99.00    99.00
10 12  9 11    15.0 1     0.0     0.00    12.90    99.00    99.00
10 12  9 12    15.0 1     0.0     0.00    14.00    99.00    99.00
10 12  9 13    15.0 1     0.0     0.00    14.80    99.00    99.00
10 12  9 14    15.0 1     0.0     0.00    15.40    99.00    99.00
10 12  9 15    15.0 1     0.0     0.00    16.10    99.00    99.00
10 12  9 16    15.0 1   173.0     0.50    16.10    99.00    99.00
10 12  9 17    15.0 1   162.0     0.50    15.50    99.00    99.00
10 12  9 18    15.0 1   144.0     1.00    14.60    99.00    99.00
10 12  9 19    15.0 1   134.0     1.50    13.60    99.00    99.00
10 12  9 20    15.0 1   134.0     2.60    13.10    99.00    99.00
10 12  9 21    15.0 1   131.0     3.60    12.60    99.00    99.00
10 12  9 22    15.0 1   135.0     4.10    12.10    99.00    99.00
10 12  9 23    15.0 1   137.0     4.10    11.80    99.00    99.00
10 12  9 24    15.0 1   137.0     3.60    11.60    99.00    99.00
10 12 10  1    15.0 1   144.0     3.10    11.50    99.00    99.00
10 12 10  2    15.0 1   145.0     1.50    11.10    99.00    99.00
10 12 10  3    15.0 1   118.0     0.50    10.60    99.00    99.00
10 12 10  4    15.0 1   307.0     0.50     9.90    99.00    99.00
10 12 10  5    15.0 1   305.0     1.00     9.30    99.00    99.00
10 12 10  6    15.0 1   293.0     1.00     9.10    99.00    99.00
10 12 10  7    15.0 1   272.0     0.50     9.60    99.00    99.00
10 12 10  8    15.0 1   193.0     0.50    10.10    99.00    99.00
10 12 10  9    15.0 1   152.0     0.50    10.40    99.00    99.00
10 12 10 10    15.0 1   136.0     1.00    10.80    99.00    99.00
10 12 10 11    15.0 1   143.0     1.00    11.40    99.00    99.00
10 12 10 12    15.0 1   146.0     1.00    12.00    99.00    99.00
10 12 10 13    15.0 1   206.0     0.50    12.80    99.00    99.00
10 12 10 14    15.0 1   230.0     1.00    13.90    99.00    99.00
10 12 10 15    15.0 1   245.0     1.50    14.60    99.00    99.00
10 12 10 16    15.0 1   241.0     1.50    14.90    99.00    99.00
10 12 10 17    15.0 1   238.0     0.50    14.40    99.00    99.00
10 12 10 18    15.0 1     0.0     0.00    13.80    99.00    99.00
10 12 10 19    15.0 1     0.0     0.00    13.00    99.00    99.00
10 12 10 20    15.0 1     0.0     0.00    12.40    99.00    99.00
10 12 10 21    15.0 1     0.0     0.00    11.90    99.00    99.00
10 12 10 22    15.0 1     0.0     0.00    10.80    99.00    99.00
10 12 10 23    15.0 1    94.0     0.50     9.30    99.00    99.00
10 12 10 24    15.0 1   144.0     0.50     9.30    99.00    99.00
10 12 11  1    15.0 1   151.0     0.50     9.10    99.00    99.00
10 12 11  2    15.0 1   158.0     0.50     9.40    99.00    99.00
10 12 11  3    15.0 1   170.0     0.50     9.80    99.00    99.00
10 12 11  4    15.0 1   172.0     0.50    10.00    99.00    99.00
10 12 11  5    15.0 1   185.0     0.50    10.10    99.00    99.00
10 12 11  6    15.0 1   180.0     0.50    10.40    99.00    99.00
10 12 11  7    15.0 1   183.0     0.50    10.50    99.00    99.00
10 12 11  8    15.0 1   172.0     1.00    10.60    99.00    99.00
10 12 11  9    15.0 1   179.0     1.00    10.90    99.00    99.00
10 12 11 10    15.0 1   181.0     1.50    11.40    99.00    99.00
10 12 11 11    15.0 1   180.0     1.00    12.10    99.00    99.00
10 12 11 12    15.0 1     0.0     0.00    13.00    99.00    99.00
10 12 11 13    15.0 1     0.0     0.00    15.10    99.00    99.00
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10 12 11 14    15.0 1   351.0     1.00    16.10    99.00    99.00
10 12 11 15    15.0 1     0.0     0.00    16.50    99.00    99.00
10 12 11 16    15.0 1     2.0     1.50    16.80    99.00    99.00
10 12 11 17    15.0 1    17.0     2.60    15.60    99.00    99.00
10 12 11 18    15.0 1    34.0     2.60    14.40    99.00    99.00
10 12 11 19    15.0 1    33.0     2.10    13.50    99.00    99.00
10 12 11 20    15.0 1    34.0     1.00    13.00    99.00    99.00
10 12 11 21    15.0 1    45.0     1.00    12.00    99.00    99.00
10 12 11 22    15.0 1    51.0     0.50    11.90    99.00    99.00
10 12 11 23    15.0 1     5.0     0.50    12.00    99.00    99.00
10 12 11 24    15.0 1   344.0     1.00    11.90    99.00    99.00
10 12 12  1    15.0 1   328.0     1.50    11.50    99.00    99.00
10 12 12  2    15.0 1   317.0     1.50    11.00    99.00    99.00
10 12 12  3    15.0 1   313.0     1.50    10.60    99.00    99.00
10 12 12  4    15.0 1   302.0     1.50    10.40    99.00    99.00
10 12 12  5    15.0 1   315.0     1.00    10.30    99.00    99.00
10 12 12  6    15.0 1   304.0     0.50    10.10    99.00    99.00
10 12 12  7    15.0 1   263.0     0.50    10.00    99.00    99.00
10 12 12  8    15.0 1   233.0     0.50    10.00    99.00    99.00
10 12 12  9    15.0 1   235.0     1.00    10.10    99.00    99.00
10 12 12 10    15.0 1   249.0     0.50    10.40    99.00    99.00
10 12 12 11    15.0 1     0.0     0.00    10.90    99.00    99.00
10 12 12 12    15.0 1   359.0     0.50    11.90    99.00    99.00
10 12 12 13    15.0 1     8.0     1.00    13.10    99.00    99.00
10 12 12 14    15.0 1    15.0     1.50    15.00    99.00    99.00
10 12 12 15    15.0 1    15.0     1.50    16.00    99.00    99.00
10 12 12 16    15.0 1    15.0     2.10    15.90    99.00    99.00
10 12 12 17    15.0 1     6.0     2.10    15.10    99.00    99.00
10 12 12 18    15.0 1    11.0     1.50    14.10    99.00    99.00
10 12 12 19    15.0 1     8.0     0.50    13.30    99.00    99.00
10 12 12 20    15.0 1     0.0     0.00    12.60    99.00    99.00
10 12 12 21    15.0 1     6.0     0.50    12.10    99.00    99.00
10 12 12 22    15.0 1    15.0     1.00    10.80    99.00    99.00
10 12 12 23    15.0 1    28.0     0.50     9.40    99.00    99.00
10 12 12 24    15.0 1     0.0     0.00     9.10    99.00    99.00
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10 12 13  3    15.0 1     0.0     0.00     9.00    99.00    99.00
10 12 13  4    15.0 1     0.0     0.00     8.90    99.00    99.00
10 12 13  5    15.0 1     0.0     0.00     8.80    99.00    99.00
10 12 13  6    15.0 1     0.0     0.00     8.50    99.00    99.00
10 12 13  7    15.0 1     0.0     0.00     8.30    99.00    99.00
10 12 13  8    15.0 1     0.0     0.00     8.00    99.00    99.00
10 12 13  9    15.0 1     0.0     0.00     8.50    99.00    99.00
10 12 13 10    15.0 1     0.0     0.00    10.60    99.00    99.00
10 12 13 11    15.0 1     0.0     0.00    12.60    99.00    99.00
10 12 13 12    15.0 1   319.0     0.50    14.10    99.00    99.00
10 12 13 13    15.0 1   320.0     1.00    15.10    99.00    99.00
10 12 13 14    15.0 1   325.0     1.00    15.60    99.00    99.00
10 12 13 15    15.0 1   312.0     0.50    15.60    99.00    99.00
10 12 13 16    15.0 1     0.0     0.00    15.30    99.00    99.00
10 12 13 17    15.0 1     0.0     0.00    14.60    99.00    99.00
10 12 13 18    15.0 1     0.0     0.00    13.80    99.00    99.00
10 12 13 19    15.0 1     0.0     0.00    13.10    99.00    99.00
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10 12 13 21    15.0 1     0.0     0.00    12.10    99.00    99.00
10 12 13 22    15.0 1     0.0     0.00    11.50    99.00    99.00
10 12 13 23    15.0 1     0.0     0.00    10.90    99.00    99.00
10 12 13 24    15.0 1     0.0     0.00    10.10    99.00    99.00
10 12 14  1    15.0 1     0.0     0.00     9.60    99.00    99.00
10 12 14  2    15.0 1   109.0     0.50     9.10    99.00    99.00
10 12 14  3    15.0 1    98.0     0.50     8.80    99.00    99.00
10 12 14  4    15.0 1    87.0     0.50     8.10    99.00    99.00
10 12 14  5    15.0 1    94.0     0.50     7.10    99.00    99.00
10 12 14  6    15.0 1    68.0     0.50     6.30    99.00    99.00
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10 12 14  8    15.0 1    72.0     0.50     5.40    99.00    99.00
10 12 14  9    15.0 1     0.0     0.00     5.80    99.00    99.00
10 12 14 10    15.0 1     0.0     0.00     8.60    99.00    99.00
10 12 14 11    15.0 1     0.0     0.00    12.40    99.00    99.00
10 12 14 12    15.0 1     0.0     0.00    13.60    99.00    99.00
10 12 14 13    15.0 1     0.0     0.00    14.60    99.00    99.00
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10 12 14 15    15.0 1     0.0     0.00    15.50    99.00    99.00
10 12 14 16    15.0 1     0.0     0.00    15.10    99.00    99.00
10 12 14 17    15.0 1     0.0     0.00    14.60    99.00    99.00
10 12 14 18    15.0 1     0.0     0.00    14.00    99.00    99.00
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10 12 14 19     15.0 1      0.0      0.00    13.60    99.00    99.00
10 12 14 20     15.0 1      0.0      0.00    13.60    99.00    99.00
10 12 14 21     15.0 1      0.0      0.00    13.40    99.00    99.00
10 12 14 22     15.0 1     19.0      0.50    12.90    99.00    99.00
10 12 14 23     15.0 1     63.0      0.50    12.60    99.00    99.00
10 12 14 24     15.0 1    110.0      0.50    12.30    99.00    99.00
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10 12 15  3     15.0 1    289.0      1.00    10.90    99.00    99.00
10 12 15  4     15.0 1    310.0      2.60    10.30    99.00    99.00
10 12 15  5     15.0 1    330.0      4.10     9.80    99.00    99.00
10 12 15  6     15.0 1    335.0      3.60     9.60    99.00    99.00
10 12 15  7     15.0 1    316.0      3.60     9.60    99.00    99.00
10 12 15  8     15.0 1    315.0      3.60     9.60    99.00    99.00
10 12 15  9     15.0 1    313.0      3.60     9.50    99.00    99.00
10 12 15 10     15.0 1    307.0      3.10     9.60    99.00    99.00
10 12 15 11     15.0 1    307.0      2.60     9.80    99.00    99.00
10 12 15 12     15.0 1    308.0      2.60    10.00    99.00    99.00
10 12 15 13     15.0 1    311.0      2.60    10.30    99.00    99.00
10 12 15 14     15.0 1    306.0      2.60    10.60    99.00    99.00
10 12 15 15     15.0 1    306.0      2.60    10.80    99.00    99.00
10 12 15 16     15.0 1    308.0      2.60    10.80    99.00    99.00
10 12 15 17     15.0 1    310.0      2.10    10.60    99.00    99.00
10 12 15 18     15.0 1    316.0      1.00    10.60    99.00    99.00
10 12 15 19     15.0 1    293.0      0.50    10.50    99.00    99.00
10 12 15 20     15.0 1    288.0      0.50    10.40    99.00    99.00
10 12 15 21     15.0 1      0.0      0.00    10.10    99.00    99.00
10 12 15 22     15.0 1    344.0      0.50     9.60    99.00    99.00
10 12 15 23     15.0 1    340.0      1.50     9.50    99.00    99.00
10 12 15 24     15.0 1    329.0      2.60     9.30    99.00    99.00
10 12 16  1     15.0 1    319.0      3.10     9.10    99.00    99.00
10 12 16  2     15.0 1    318.0      4.10     9.10    99.00    99.00
10 12 16  3     15.0 1    329.0      5.10     8.60    99.00    99.00
10 12 16  4     15.0 1    333.0      5.10     8.00    99.00    99.00
10 12 16  5     15.0 1    345.0      5.10     7.40    99.00    99.00
10 12 16  6     15.0 1    344.0      4.60     7.10    99.00    99.00
10 12 16  7     15.0 1    339.0      4.10     6.90    99.00    99.00
10 12 16  8     15.0 1    328.0      3.60     6.60    99.00    99.00
10 12 16  9     15.0 1    333.0      2.60     6.50    99.00    99.00
10 12 16 10     15.0 1    314.0      1.50     7.10    99.00    99.00
10 12 16 11     15.0 1    267.0      1.00     8.00    99.00    99.00
10 12 16 12     15.0 1    265.0      1.00     8.50    99.00    99.00
10 12 16 13     15.0 1      0.0      0.00     9.90    99.00    99.00
10 12 16 14     15.0 1      0.0      0.00    11.00    99.00    99.00
10 12 16 15     15.0 1    353.0      1.00    11.60    99.00    99.00
10 12 16 16     15.0 1      0.0      0.00    12.00    99.00    99.00
10 12 16 17     15.0 1      0.0      0.00    11.30    99.00    99.00
10 12 16 18     15.0 1      9.0      2.10    10.10    99.00    99.00
10 12 16 19     15.0 1     13.0      1.00     9.10    99.00    99.00
10 12 16 20     15.0 1    316.0      0.50     8.30    99.00    99.00
10 12 16 21     15.0 1    302.0      1.00     7.60    99.00    99.00
10 12 16 22     15.0 1    328.0      1.00     7.40    99.00    99.00
10 12 16 23     15.0 1    341.0      1.00     7.50    99.00    99.00
10 12 16 24     15.0 1    345.0      1.00     7.60    99.00    99.00
10 12 17  1     15.0 1    320.0      1.50     7.80    99.00    99.00
10 12 17  2     15.0 1    315.0      1.50     7.90    99.00    99.00
10 12 17  3     15.0 1    323.0      1.00     7.90    99.00    99.00
10 12 17  4     15.0 1    286.0      1.00     8.10    99.00    99.00
10 12 17  5     15.0 1    278.0      1.50     8.10    99.00    99.00
10 12 17  6     15.0 1    256.0      1.50     8.80    99.00    99.00
10 12 17  7     15.0 1    267.0      2.10     9.00    99.00    99.00
10 12 17  8     15.0 1    269.0      1.50     9.60    99.00    99.00
10 12 17  9     15.0 1    257.0      1.00    10.10    99.00    99.00
10 12 17 10     15.0 1    264.0      0.50    10.60    99.00    99.00
10 12 17 11     15.0 1    360.0      0.50    11.10    99.00    99.00
10 12 17 12     15.0 1    346.0      1.00    11.10    99.00    99.00
10 12 17 13     15.0 1    343.0      2.10    11.00    99.00    99.00
10 12 17 14     15.0 1    338.0      2.60    10.90    99.00    99.00
10 12 17 15     15.0 1    343.0      3.10    10.50    99.00    99.00
10 12 17 16     15.0 1    339.0      3.10    10.30    99.00    99.00
10 12 17 17     15.0 1    344.0      3.10    10.10    99.00    99.00
10 12 17 18     15.0 1    324.0      2.10    10.10    99.00    99.00
10 12 17 19     15.0 1    313.0      1.00    10.00    99.00    99.00
10 12 17 20     15.0 1    118.0      0.50    10.10    99.00    99.00
10 12 17 21     15.0 1    119.0      2.60    10.90    99.00    99.00
10 12 17 22     15.0 1    130.0      4.10    11.50    99.00    99.00
10 12 17 23     15.0 1    129.0      4.60    11.80    99.00    99.00
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10 12 17 24     15.0 1   137.0     5.10     12.10     99.00     99.00
10 12 18  1     15.0 1   130.0     5.10     12.30     99.00     99.00
10 12 18  2     15.0 1   130.0     5.10     12.40     99.00     99.00
10 12 18  3     15.0 1   126.0     5.10     12.50     99.00     99.00
10 12 18  4     15.0 1   117.0     5.10     12.60     99.00     99.00
10 12 18  5     15.0 1   120.0     5.10     12.60     99.00     99.00
10 12 18  6     15.0 1   117.0     5.10     12.60     99.00     99.00
10 12 18  7     15.0 1   125.0     5.10     12.80     99.00     99.00
10 12 18  8     15.0 1   121.0     5.10     12.80     99.00     99.00
10 12 18  9     15.0 1   116.0     5.70     12.80     99.00     99.00
10 12 18 10     15.0 1   124.0     5.10     12.80     99.00     99.00
10 12 18 11     15.0 1   119.0     5.10     13.00     99.00     99.00
10 12 18 12     15.0 1   131.0     4.60     13.10     99.00     99.00
10 12 18 13     15.0 1   135.0     4.60     13.30     99.00     99.00
10 12 18 14     15.0 1   134.0     4.60     13.40     99.00     99.00
10 12 18 15     15.0 1   130.0     4.10     13.40     99.00     99.00
10 12 18 16     15.0 1   141.0     4.10     13.40     99.00     99.00
10 12 18 17     15.0 1   129.0     4.10     13.50     99.00     99.00
10 12 18 18     15.0 1   133.0     4.60     13.60     99.00     99.00
10 12 18 19     15.0 1   129.0     4.60     13.60     99.00     99.00
10 12 18 20     15.0 1   134.0     4.60     13.80     99.00     99.00
10 12 18 21     15.0 1   136.0     4.60     14.00     99.00     99.00
10 12 18 22     15.0 1   138.0     4.10     14.10     99.00     99.00
10 12 18 23     15.0 1   144.0     4.60     14.10     99.00     99.00
10 12 18 24     15.0 1   137.0     4.10     14.30     99.00     99.00
10 12 19  1     15.0 1   126.0     4.10     14.50     99.00     99.00
10 12 19  2     15.0 1   130.0     4.60     14.60     99.00     99.00
10 12 19  3     15.0 1   120.0     4.60     14.80     99.00     99.00
10 12 19  4     15.0 1   117.0     4.60     14.90     99.00     99.00
10 12 19  5     15.0 1   120.0     4.10     14.90     99.00     99.00
10 12 19  6     15.0 1   131.0     4.10     14.90     99.00     99.00
10 12 19  7     15.0 1   130.0     3.60     14.90     99.00     99.00
10 12 19  8     15.0 1   135.0     3.60     14.90     99.00     99.00
10 12 19  9     15.0 1   128.0     3.60     15.00     99.00     99.00
10 12 19 10     15.0 1   131.0     3.60     15.10     99.00     99.00
10 12 19 11     15.0 1   118.0     3.60     15.40     99.00     99.00
10 12 19 12     15.0 1   110.0     3.60     15.80     99.00     99.00
10 12 19 13     15.0 1   112.0     2.10     16.10     99.00     99.00
10 12 19 14     15.0 1   267.0     0.50     16.50     99.00     99.00
10 12 19 15     15.0 1   301.0     3.60     16.40     99.00     99.00
10 12 19 16     15.0 1   289.0     4.60     15.40     99.00     99.00
10 12 19 17     15.0 1   291.0     4.10     14.60     99.00     99.00
10 12 19 18     15.0 1   299.0     3.10     14.50     99.00     99.00
10 12 19 19     15.0 1     0.0     0.00     14.10     99.00     99.00
10 12 19 20     15.0 1    75.0     2.60     13.60     99.00     99.00
10 12 19 21     15.0 1    97.0     3.60     13.00     99.00     99.00
10 12 19 22     15.0 1   100.0     3.60     12.50     99.00     99.00
10 12 19 23     15.0 1   102.0     4.10     12.00     99.00     99.00
10 12 19 24     15.0 1   110.0     4.10     11.60     99.00     99.00
10 12 20  1     15.0 1   134.0     4.60     11.40     99.00     99.00
10 12 20  2     15.0 1   142.0     5.10     11.10     99.00     99.00
10 12 20  3     15.0 1   141.0     5.10     10.90     99.00     99.00
10 12 20  4     15.0 1   136.0     4.60     10.80     99.00     99.00
10 12 20  5     15.0 1   137.0     5.10     10.60     99.00     99.00
10 12 20  6     15.0 1   141.0     4.60     10.60     99.00     99.00
10 12 20  7     15.0 1   136.0     4.10     10.60     99.00     99.00
10 12 20  8     15.0 1   141.0     4.10     10.50     99.00     99.00
10 12 20  9     15.0 1   136.0     4.10     10.50     99.00     99.00
10 12 20 10     15.0 1   138.0     4.10     10.80     99.00     99.00
10 12 20 11     15.0 1   136.0     3.60     11.10     99.00     99.00
10 12 20 12     15.0 1   143.0     3.10     11.50     99.00     99.00
10 12 20 13     15.0 1   139.0     2.60     11.60     99.00     99.00
10 12 20 14     15.0 1   132.0     2.60     11.60     99.00     99.00
10 12 20 15     15.0 1   138.0     2.10     11.60     99.00     99.00
10 12 20 16     15.0 1   150.0     1.50     11.40     99.00     99.00
10 12 20 17     15.0 1   152.0     1.50     11.10     99.00     99.00
10 12 20 18     15.0 1   152.0     1.50     10.90     99.00     99.00
10 12 20 19     15.0 1   161.0     2.10     10.90     99.00     99.00
10 12 20 20     15.0 1   149.0     2.60     10.80     99.00     99.00
10 12 20 21     15.0 1   148.0     3.10     10.80     99.00     99.00
10 12 20 22     15.0 1   150.0     2.60     10.90     99.00     99.00
10 12 20 23     15.0 1   155.0     2.60     10.90     99.00     99.00
10 12 20 24     15.0 1   150.0     2.10     10.80     99.00     99.00
10 12 21  1     15.0 1   172.0     0.50     10.60     99.00     99.00
10 12 21  2     15.0 1     0.0     0.00     10.40     99.00     99.00
10 12 21  3     15.0 1   338.0     0.50     10.10     99.00     99.00
10 12 21  4     15.0 1     6.0     0.50      9.60     99.00     99.00
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10 12 21  5    15.0 1    22.0     1.00     8.80    99.00    99.00
10 12 21  6    15.0 1    44.0     1.50     7.90    99.00    99.00
10 12 21  7    15.0 1    58.0     0.50     7.30    99.00    99.00
10 12 21  8    15.0 1   110.0     0.50     7.40    99.00    99.00
10 12 21  9    15.0 1   140.0     1.00     8.00    99.00    99.00
10 12 21 10    15.0 1   124.0     1.50     9.60    99.00    99.00
10 12 21 11    15.0 1   131.0     1.50    12.90    99.00    99.00
10 12 21 12    15.0 1   140.0     2.10    15.10    99.00    99.00
10 12 21 13    15.0 1   153.0     2.10    16.00    99.00    99.00
10 12 21 14    15.0 1   135.0     1.50    16.50    99.00    99.00
10 12 21 15    15.0 1    71.0     1.50    16.50    99.00    99.00
10 12 21 16    15.0 1    62.0     2.60    14.60    99.00    99.00
10 12 21 17    15.0 1    79.0     2.10    14.30    99.00    99.00
10 12 21 18    15.0 1   134.0     3.10    14.00    99.00    99.00
10 12 21 19    15.0 1   144.0     4.60    13.10    99.00    99.00
10 12 21 20    15.0 1   130.0     4.60    12.60    99.00    99.00
10 12 21 21    15.0 1   141.0     4.60    12.60    99.00    99.00
10 12 21 22    15.0 1   136.0     5.10    12.60    99.00    99.00
10 12 21 23    15.0 1   127.0     5.10    12.90    99.00    99.00
10 12 21 24    15.0 1   134.0     5.70    13.10    99.00    99.00
10 12 22  1    15.0 1   109.0     6.20    13.10    99.00    99.00
10 12 22  2    15.0 1   113.0     6.70    13.10    99.00    99.00
10 12 22  3    15.0 1   108.0     6.70    13.30    99.00    99.00
10 12 22  4    15.0 1   112.0     6.70    13.40    99.00    99.00
10 12 22  5    15.0 1   120.0     6.70    13.50    99.00    99.00
10 12 22  6    15.0 1   122.0     6.20    13.50    99.00    99.00
10 12 22  7    15.0 1   135.0     5.10    13.30    99.00    99.00
10 12 22  8    15.0 1   140.0     4.60    13.00    99.00    99.00
10 12 22  9    15.0 1   152.0     4.10    12.80    99.00    99.00
10 12 22 10    15.0 1   146.0     4.10    12.60    99.00    99.00
10 12 22 11    15.0 1   155.0     4.10    12.80    99.00    99.00
10 12 22 12    15.0 1   146.0     3.10    12.90    99.00    99.00
10 12 22 13    15.0 1   152.0     2.10    12.90    99.00    99.00
10 12 22 14    15.0 1   174.0     2.60    12.80    99.00    99.00
10 12 22 15    15.0 1   190.0     2.10    13.10    99.00    99.00
10 12 22 16    15.0 1   254.0     1.50    13.10    99.00    99.00
10 12 22 17    15.0 1   295.0     2.10    12.80    99.00    99.00
10 12 22 18    15.0 1   295.0     2.60    12.10    99.00    99.00
10 12 22 19    15.0 1   276.0     2.60    11.50    99.00    99.00
10 12 22 20    15.0 1   276.0     3.10    11.00    99.00    99.00
10 12 22 21    15.0 1   288.0     3.60    10.90    99.00    99.00
10 12 22 22    15.0 1   297.0     3.60    10.90    99.00    99.00
10 12 22 23    15.0 1   297.0     4.10    10.90    99.00    99.00
10 12 22 24    15.0 1   288.0     4.10    10.60    99.00    99.00
10 12 23  1    15.0 1   299.0     4.10    10.40    99.00    99.00
10 12 23  2    15.0 1   300.0     4.10    10.00    99.00    99.00
10 12 23  3    15.0 1   309.0     4.10     9.60    99.00    99.00
10 12 23  4    15.0 1   320.0     3.60     8.80    99.00    99.00
10 12 23  5    15.0 1   327.0     3.10     8.00    99.00    99.00
10 12 23  6    15.0 1   341.0     3.10     7.50    99.00    99.00
10 12 23  7    15.0 1   339.0     2.10     7.00    99.00    99.00
10 12 23  8    15.0 1   317.0     1.50     6.50    99.00    99.00
10 12 23  9    15.0 1   305.0     1.50     6.30    99.00    99.00
10 12 23 10    15.0 1   300.0     1.50     6.10    99.00    99.00
10 12 23 11    15.0 1   302.0     1.00     6.40    99.00    99.00
10 12 23 12    15.0 1   305.0     0.50     6.60    99.00    99.00
10 12 23 13    15.0 1   319.0     0.50     7.10    99.00    99.00
10 12 23 14    15.0 1     6.0     0.50     7.60    99.00    99.00
10 12 23 15    15.0 1    30.0     1.50     8.00    99.00    99.00
10 12 23 16    15.0 1    38.0     2.10     7.90    99.00    99.00
10 12 23 17    15.0 1    48.0     2.60     7.50    99.00    99.00
10 12 23 18    15.0 1    54.0     2.60     7.00    99.00    99.00
10 12 23 19    15.0 1    36.0     1.50     6.80    99.00    99.00
10 12 23 20    15.0 1     9.0     0.50     6.60    99.00    99.00
10 12 23 21    15.0 1   346.0     0.50     6.40    99.00    99.00
10 12 23 22    15.0 1     0.0     0.00     6.10    99.00    99.00
10 12 23 23    15.0 1     8.0     1.00     6.10    99.00    99.00
10 12 23 24    15.0 1   349.0     0.50     6.00    99.00    99.00
10 12 24  1    15.0 1     0.0     0.00     6.00    99.00    99.00
10 12 24  2    15.0 1    21.0     0.50     5.90    99.00    99.00
10 12 24  3    15.0 1    30.0     0.50     5.80    99.00    99.00
10 12 24  4    15.0 1    34.0     0.50     5.80    99.00    99.00
10 12 24  5    15.0 1    25.0     0.50     5.80    99.00    99.00
10 12 24  6    15.0 1    12.0     0.50     5.80    99.00    99.00
10 12 24  7    15.0 1   327.0     0.50     5.60    99.00    99.00
10 12 24  8    15.0 1     0.0     0.00     5.60    99.00    99.00
10 12 24  9    15.0 1     0.0     0.00     5.50    99.00    99.00
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10 12 24 10    15.0 1     0.0     0.00     5.50    99.00    99.00
10 12 24 11    15.0 1     8.0     0.50     6.00    99.00    99.00
10 12 24 12    15.0 1   343.0     0.50     7.40    99.00    99.00
10 12 24 13    15.0 1   347.0     1.00     9.60    99.00    99.00
10 12 24 14    15.0 1   357.0     1.50    11.40    99.00    99.00
10 12 24 15    15.0 1     0.0     0.00    12.10    99.00    99.00
10 12 24 16    15.0 1    14.0     2.60    11.80    99.00    99.00
10 12 24 17    15.0 1     0.0     0.00    10.90    99.00    99.00
10 12 24 18    15.0 1   326.0     1.50     9.90    99.00    99.00
10 12 24 19    15.0 1   315.0     1.50     9.00    99.00    99.00
10 12 24 20    15.0 1   307.0     1.50     8.30    99.00    99.00
10 12 24 21    15.0 1   340.0     1.50     7.80    99.00    99.00
10 12 24 22    15.0 1   355.0     1.50     7.30    99.00    99.00
10 12 24 23    15.0 1    11.0     2.10     6.60    99.00    99.00
10 12 24 24    15.0 1    33.0     2.10     5.90    99.00    99.00
10 12 25  1    15.0 1    20.0     1.50     4.10    99.00    99.00
10 12 25  2    15.0 1    17.0     1.50     3.60    99.00    99.00
10 12 25  3    15.0 1    20.0     1.50     3.90    99.00    99.00
10 12 25  4    15.0 1    20.0     1.50     5.50    99.00    99.00
10 12 25  5    15.0 1    69.0     0.50     7.60    99.00    99.00
10 12 25  6    15.0 1   181.0     0.50     8.90    99.00    99.00
10 12 25  7    15.0 1   189.0     2.10     9.50    99.00    99.00
10 12 25  8    15.0 1   177.0     3.10    10.10    99.00    99.00
10 12 25  9    15.0 1   165.0     4.10    11.00    99.00    99.00
10 12 25 10    15.0 1   149.0     5.10    12.30    99.00    99.00
10 12 25 11    15.0 1   136.0     4.60    13.60    99.00    99.00
10 12 25 12    15.0 1   154.0     4.10    14.60    99.00    99.00
10 12 25 13    15.0 1   150.0     4.60    15.00    99.00    99.00
10 12 25 14    15.0 1   159.0     4.60    14.80    99.00    99.00
10 12 25 15    15.0 1   190.0     4.10    13.90    99.00    99.00
10 12 25 16    15.0 1   173.0     4.10    12.60    99.00    99.00
10 12 25 17    15.0 1   142.0     5.70    12.10    99.00    99.00
10 12 25 18    15.0 1   135.0     6.20    11.90    99.00    99.00
10 12 25 19    15.0 1   144.0     5.70    11.60    99.00    99.00
10 12 25 20    15.0 1   151.0     3.60    11.50    99.00    99.00
10 12 25 21    15.0 1   157.0     3.60    11.30    99.00    99.00
10 12 25 22    15.0 1   157.0     2.60    11.40    99.00    99.00
10 12 25 23    15.0 1   207.0     0.50    11.60    99.00    99.00
10 12 25 24    15.0 1   290.0     1.50    11.80    99.00    99.00
10 12 26  1    15.0 1   276.0     3.60    11.10    99.00    99.00
10 12 26  2    15.0 1   279.0     4.60     9.60    99.00    99.00
10 12 26  3    15.0 1   287.0     4.10     8.80    99.00    99.00
10 12 26  4    15.0 1   298.0     4.10     8.00    99.00    99.00
10 12 26  5    15.0 1   289.0     3.60     7.30    99.00    99.00
10 12 26  6    15.0 1   302.0     3.60     6.50    99.00    99.00
10 12 26  7    15.0 1   317.0     2.60     5.60    99.00    99.00
10 12 26  8    15.0 1   353.0     2.60     5.50    99.00    99.00
10 12 26  9    15.0 1   348.0     2.10     6.30    99.00    99.00
10 12 26 10    15.0 1    14.0     0.50     6.10    99.00    99.00
10 12 26 11    15.0 1     0.0     0.00     6.60    99.00    99.00
10 12 26 12    15.0 1     0.0     0.00     7.50    99.00    99.00
10 12 26 13    15.0 1    39.0     0.50     8.90    99.00    99.00
10 12 26 14    15.0 1    27.0     0.50    10.10    99.00    99.00
10 12 26 15    15.0 1    13.0     0.50    10.40    99.00    99.00
10 12 26 16    15.0 1   238.0     1.50    12.30    99.00    99.00
10 12 26 17    15.0 1   248.0     1.50    11.60    99.00    99.00
10 12 26 18    15.0 1   262.0     1.50    11.00    99.00    99.00
10 12 26 19    15.0 1   262.0     1.00    10.30    99.00    99.00
10 12 26 20    15.0 1   212.0     0.50     9.60    99.00    99.00
10 12 26 21    15.0 1   145.0     1.00     8.90    99.00    99.00
10 12 26 22    15.0 1   145.0     2.10     8.50    99.00    99.00
10 12 26 23    15.0 1   143.0     2.60     8.30    99.00    99.00
10 12 26 24    15.0 1   129.0     3.10     8.10    99.00    99.00
10 12 27  1    15.0 1   130.0     3.10     8.00    99.00    99.00
10 12 27  2    15.0 1   142.0     3.10     7.90    99.00    99.00
10 12 27  3    15.0 1   164.0     2.10     7.60    99.00    99.00
10 12 27  4    15.0 1   165.0     1.00     7.10    99.00    99.00
10 12 27  5    15.0 1   111.0     0.50     6.60    99.00    99.00
10 12 27  6    15.0 1   125.0     1.00     6.00    99.00    99.00
10 12 27  7    15.0 1   116.0     0.50     5.50    99.00    99.00
10 12 27  8    15.0 1   121.0     0.50     4.90    99.00    99.00
10 12 27  9    15.0 1     0.0     0.00     6.00    99.00    99.00
10 12 27 10    15.0 1     0.0     0.00     8.60    99.00    99.00
10 12 27 11    15.0 1     0.0     0.00    10.30    99.00    99.00
10 12 27 12    15.0 1   288.0     0.50    11.30    99.00    99.00
10 12 27 13    15.0 1   293.0     0.50    12.00    99.00    99.00
10 12 27 14    15.0 1   302.0     1.00    12.50    99.00    99.00
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10 12 27 15     15.0 1   322.0      1.00     12.80     99.00     99.00
10 12 27 16     15.0 1   340.0      1.50     12.60     99.00     99.00
10 12 27 17     15.0 1     6.0      1.00     11.90     99.00     99.00
10 12 27 18     15.0 1    51.0      0.50     10.80     99.00     99.00
10 12 27 19     15.0 1     0.0      0.00      9.60     99.00     99.00
10 12 27 20     15.0 1     0.0      0.00      8.80     99.00     99.00
10 12 27 21     15.0 1    88.0      0.50      8.10     99.00     99.00
10 12 27 22     15.0 1    90.0      0.50      7.60     99.00     99.00
10 12 27 23     15.0 1   107.0      0.50      7.10     99.00     99.00
10 12 27 24     15.0 1   120.0      0.50      7.00     99.00     99.00
10 12 28  1     15.0 1     0.0      0.00      6.90     99.00     99.00
10 12 28  2     15.0 1     0.0      0.00      6.60     99.00     99.00
10 12 28  3     15.0 1   238.0      0.50      6.30     99.00     99.00
10 12 28  4     15.0 1   238.0      0.50      5.90     99.00     99.00
10 12 28  5     15.0 1   244.0      1.00      5.50     99.00     99.00
10 12 28  6     15.0 1   216.0      1.00      5.10     99.00     99.00
10 12 28  7     15.0 1   213.0      1.00      4.60     99.00     99.00
10 12 28  8     15.0 1   206.0      0.50      3.30     99.00     99.00
10 12 28  9     15.0 1     0.0      0.00      3.40     99.00     99.00
10 12 28 10     15.0 1     0.0      0.00      5.00     99.00     99.00
10 12 28 11     15.0 1   252.0      0.50      7.10     99.00     99.00
10 12 28 12     15.0 1   256.0      1.00      8.30     99.00     99.00
10 12 28 13     15.0 1   266.0      0.50      9.00     99.00     99.00
10 12 28 14     15.0 1   282.0      0.50      9.50     99.00     99.00
10 12 28 15     15.0 1     0.0      0.00      9.60     99.00     99.00
10 12 28 16     15.0 1     0.0      0.00      9.50     99.00     99.00
10 12 28 17     15.0 1   175.0      0.50      9.00     99.00     99.00
10 12 28 18     15.0 1   171.0      1.00      8.40     99.00     99.00
10 12 28 19     15.0 1   154.0      2.10      7.90     99.00     99.00
10 12 28 20     15.0 1   128.0      2.60      7.50     99.00     99.00
10 12 28 21     15.0 1   126.0      3.10      7.50     99.00     99.00
10 12 28 22     15.0 1   136.0      3.60      7.60     99.00     99.00
10 12 28 23     15.0 1   144.0      4.10      8.10     99.00     99.00
10 12 28 24     15.0 1   138.0      4.60      8.50     99.00     99.00
10 12 29  1     15.0 1   141.0      5.10      8.80     99.00     99.00
10 12 29  2     15.0 1   142.0      5.10      9.30     99.00     99.00
10 12 29  3     15.0 1   141.0      4.60      9.60     99.00     99.00
10 12 29  4     15.0 1   131.0      4.10     10.10     99.00     99.00
10 12 29  5     15.0 1   118.0      3.60     10.80     99.00     99.00
10 12 29  6     15.0 1   131.0      2.60     11.30     99.00     99.00
10 12 29  7     15.0 1   237.0      2.60     11.30     99.00     99.00
10 12 29  8     15.0 1   270.0      5.10     10.50     99.00     99.00
10 12 29  9     15.0 1   291.0      5.10     11.50     99.00     99.00
10 12 29 10     15.0 1   302.0      4.60     12.60     99.00     99.00
10 12 29 11     15.0 1   313.0      2.60     13.00     99.00     99.00
10 12 29 12     15.0 1   330.0      7.70     13.60     99.00     99.00
10 12 29 13     15.0 1   316.0      8.70     13.40     99.00     99.00
10 12 29 14     15.0 1   327.0      7.70     12.90     99.00     99.00
10 12 29 15     15.0 1   334.0      8.20     11.60     99.00     99.00
10 12 29 16     15.0 1   336.0      5.70     10.60     99.00     99.00
10 12 29 17     15.0 1   338.0      5.70      9.30     99.00     99.00
10 12 29 18     15.0 1   331.0      5.10      8.30     99.00     99.00
10 12 29 19     15.0 1   326.0      5.10      7.30     99.00     99.00
10 12 29 20     15.0 1   316.0      4.60      6.50     99.00     99.00
10 12 29 21     15.0 1   308.0      4.60      5.90     99.00     99.00
10 12 29 22     15.0 1   321.0      4.60      5.50     99.00     99.00
10 12 29 23     15.0 1   316.0      4.60      4.80     99.00     99.00
10 12 29 24     15.0 1   316.0      5.10      4.10     99.00     99.00
10 12 30  1     15.0 1   327.0      4.60      3.60     99.00     99.00
10 12 30  2     15.0 1   330.0      4.60      3.00     99.00     99.00
10 12 30  3     15.0 1   327.0      4.10      2.60     99.00     99.00
10 12 30  4     15.0 1   334.0      3.10      2.10     99.00     99.00
10 12 30  5     15.0 1   332.0      2.60      1.90     99.00     99.00
10 12 30  6     15.0 1   327.0      1.00      1.60     99.00     99.00
10 12 30  7     15.0 1     0.0      0.00      1.30     99.00     99.00
10 12 30  8     15.0 1    99.0      0.50      1.10     99.00     99.00
10 12 30  9     15.0 1   359.0      2.60      2.80     99.00     99.00
10 12 30 10     15.0 1     4.0      4.10      4.60     99.00     99.00
10 12 30 11     15.0 1   354.0      3.60      6.10     99.00     99.00
10 12 30 12     15.0 1   336.0      4.10      7.10     99.00     99.00
10 12 30 13     15.0 1   338.0      4.60      7.90     99.00     99.00
10 12 30 14     15.0 1   335.0      4.60      8.30     99.00     99.00
10 12 30 15     15.0 1   331.0      4.10      8.50     99.00     99.00
10 12 30 16     15.0 1   332.0      2.60      8.10     99.00     99.00
10 12 30 17     15.0 1   331.0      2.10      7.60     99.00     99.00
10 12 30 18     15.0 1   328.0      2.10      6.90     99.00     99.00
10 12 30 19     15.0 1   318.0      1.50      6.10     99.00     99.00
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10 12 30 20     15.0 1   290.0      1.00      5.30     99.00     99.00
10 12 30 21     15.0 1   277.0      1.50      4.40     99.00     99.00
10 12 30 22     15.0 1   271.0      1.00      3.50     99.00     99.00
10 12 30 23     15.0 1   188.0      0.50      2.60     99.00     99.00
10 12 30 24     15.0 1   118.0      1.50      1.80     99.00     99.00
10 12 31  1     15.0 1   117.0      2.10      1.10     99.00     99.00
10 12 31  2     15.0 1   132.0      2.10      0.60     99.00     99.00
10 12 31  3     15.0 1   135.0      2.10      0.10     99.00     99.00
10 12 31  4     15.0 1   131.0      1.50     -0.10     99.00     99.00
10 12 31  5     15.0 1   138.0      1.50     -0.50     99.00     99.00
10 12 31  6     15.0 1   144.0      1.50     -0.90     99.00     99.00
10 12 31  7     15.0 1   143.0      1.00     -1.00     99.00     99.00
10 12 31  8     15.0 1   134.0      0.50     -1.30     99.00     99.00
10 12 31  9     15.0 1   153.0      0.50      0.40     99.00     99.00
10 12 31 10     15.0 1     0.0      0.00      2.60     99.00     99.00
10 12 31 11     15.0 1     0.0      0.00      4.30     99.00     99.00
10 12 31 12     15.0 1     0.0      0.00      5.10     99.00     99.00
10 12 31 13     15.0 1   263.0      0.50      5.60     99.00     99.00
10 12 31 14     15.0 1   281.0      0.50      6.00     99.00     99.00
10 12 31 15     15.0 1   305.0      0.50      6.30     99.00     99.00
10 12 31 16     15.0 1   344.0      1.00      6.00     99.00     99.00
10 12 31 17     15.0 1    30.0      1.50      5.30     99.00     99.00
10 12 31 18     15.0 1    37.0      2.10      4.40     99.00     99.00
10 12 31 19     15.0 1    63.0      1.50      3.40     99.00     99.00
10 12 31 20     15.0 1    97.0      0.50      2.60     99.00     99.00
10 12 31 21     15.0 1   119.0      0.50      2.40     99.00     99.00
10 12 31 22     15.0 1     0.0      0.00      2.40     99.00     99.00
10 12 31 23     15.0 1     0.0      0.00      2.30     99.00     99.00
10 12 31 24     15.0 1     0.0      0.00      2.10     99.00     99.00
11  1  1  1     15.0 1    51.0      0.50      1.90     99.00     99.00
11  1  1  2     15.0 1    18.0      0.50      1.60     99.00     99.00
11  1  1  3     15.0 1     0.0      0.00      1.50     99.00     99.00
11  1  1  4     15.0 1    33.0      1.00      1.50     99.00     99.00
11  1  1  5     15.0 1    43.0      0.50      1.80     99.00     99.00
11  1  1  6     15.0 1    92.0      0.50      2.30     99.00     99.00
11  1  1  7     15.0 1     0.0      0.00      2.90     99.00     99.00
11  1  1  8     15.0 1     0.0      0.00      3.60     99.00     99.00
11  1  1  9     15.0 1     0.0      0.00      4.10     99.00     99.00
11  1  1 10     15.0 1   121.0      2.10      6.80     99.00     99.00
11  1  1 11     15.0 1   134.0      1.00      8.60     99.00     99.00
11  1  1 12     15.0 1     0.0      0.00     10.00     99.00     99.00
11  1  1 13     15.0 1   353.0      0.50     10.60     99.00     99.00
11  1  1 14     15.0 1   339.0      2.60     10.30     99.00     99.00
11  1  1 15     15.0 1   352.0      3.10      9.10     99.00     99.00
11  1  1 16     15.0 1   354.0      3.10      8.10     99.00     99.00
11  1  1 17     15.0 1     1.0      3.10      7.40     99.00     99.00
11  1  1 18     15.0 1   327.0      2.60      6.60     99.00     99.00
11  1  1 19     15.0 1   334.0      1.00      6.80     99.00     99.00
11  1  1 20     15.0 1     0.0      0.00      7.00     99.00     99.00
11  1  1 21     15.0 1     0.0      0.00      6.80     99.00     99.00
11  1  1 22     15.0 1    32.0      0.50      6.60     99.00     99.00
11  1  1 23     15.0 1    60.0      0.50      6.80     99.00     99.00
11  1  1 24     15.0 1   170.0      0.50      6.80     99.00     99.00
11  1  2  1     15.0 1   156.0      1.00      6.60     99.00     99.00
11  1  2  2     15.0 1   132.0      1.50      6.80     99.00     99.00
11  1  2  3     15.0 1   132.0      3.10      6.90     99.00     99.00
11  1  2  4     15.0 1   120.0      5.70      7.30     99.00     99.00
11  1  2  5     15.0 1   116.0      7.20      7.60     99.00     99.00
11  1  2  6     15.0 1   117.0      7.20      7.60     99.00     99.00
11  1  2  7     15.0 1   119.0      7.20      7.80     99.00     99.00
11  1  2  8     15.0 1   116.0      7.70      7.80     99.00     99.00
11  1  2  9     15.0 1   120.0      7.70      7.80     99.00     99.00
11  1  2 10     15.0 1   121.0      8.20      8.10     99.00     99.00
11  1  2 11     15.0 1   135.0      7.20      8.90     99.00     99.00
11  1  2 12     15.0 1   131.0      5.70      9.60     99.00     99.00
11  1  2 13     15.0 1   129.0      5.10     10.40     99.00     99.00
11  1  2 14     15.0 1   127.0      3.10     10.60     99.00     99.00
11  1  2 15     15.0 1   350.0      1.50     10.10     99.00     99.00
11  1  2 16     15.0 1   344.0      4.10      9.10     99.00     99.00
11  1  2 17     15.0 1   348.0      4.10      8.60     99.00     99.00
11  1  2 18     15.0 1    11.0      3.10      8.10     99.00     99.00
11  1  2 19     15.0 1    22.0      2.60      7.90     99.00     99.00
11  1  2 20     15.0 1    15.0      2.10      7.60     99.00     99.00
11  1  2 21     15.0 1    24.0      1.50      7.50     99.00     99.00
11  1  2 22     15.0 1    45.0      0.50      7.50     99.00     99.00
11  1  2 23     15.0 1     0.0      0.00      7.50     99.00     99.00
11  1  2 24     15.0 1     0.0      0.00      7.40     99.00     99.00
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11  1  3  1    15.0 1     0.0     0.00     7.40    99.00    99.00
11  1  3  2    15.0 1   216.0     0.50     7.40    99.00    99.00
11  1  3  3    15.0 1   244.0     0.50     7.40    99.00    99.00
11  1  3  4    15.0 1   280.0     0.50     7.30    99.00    99.00
11  1  3  5    15.0 1   247.0     0.50     7.30    99.00    99.00
11  1  3  6    15.0 1   289.0     0.50     7.10    99.00    99.00
11  1  3  7    15.0 1   316.0     2.10     6.80    99.00    99.00
11  1  3  8    15.0 1   319.0     2.10     6.50    99.00    99.00
11  1  3  9    15.0 1   318.0     2.10     7.30    99.00    99.00
11  1  3 10    15.0 1   324.0     1.50     8.40    99.00    99.00
11  1  3 11    15.0 1   332.0     1.00     9.40    99.00    99.00
11  1  3 12    15.0 1   328.0     1.00    10.30    99.00    99.00
11  1  3 13    15.0 1   331.0     1.00    11.00    99.00    99.00
11  1  3 14    15.0 1   332.0     1.50    11.50    99.00    99.00
11  1  3 15    15.0 1   337.0     2.60    11.60    99.00    99.00
11  1  3 16    15.0 1   350.0     3.10    11.30    99.00    99.00
11  1  3 17    15.0 1     0.0     0.00    10.10    99.00    99.00
11  1  3 18    15.0 1    11.0     3.60     9.00    99.00    99.00
11  1  3 19    15.0 1    27.0     2.60     8.50    99.00    99.00
11  1  3 20    15.0 1    18.0     0.50     7.60    99.00    99.00
11  1  3 21    15.0 1   307.0     0.50     6.80    99.00    99.00
11  1  3 22    15.0 1   339.0     1.00     6.10    99.00    99.00
11  1  3 23    15.0 1   351.0     1.00     5.40    99.00    99.00
11  1  3 24    15.0 1   337.0     1.00     4.90    99.00    99.00
11  1  4  1    15.0 1   326.0     1.50     4.50    99.00    99.00
11  1  4  2    15.0 1   326.0     2.10     4.00    99.00    99.00
11  1  4  3    15.0 1   318.0     2.10     3.60    99.00    99.00
11  1  4  4    15.0 1   299.0     1.50     3.10    99.00    99.00
11  1  4  5    15.0 1   271.0     2.10     2.60    99.00    99.00
11  1  4  6    15.0 1   272.0     2.60     2.30    99.00    99.00
11  1  4  7    15.0 1   276.0     3.10     1.80    99.00    99.00
11  1  4  8    15.0 1   288.0     3.10     1.40    99.00    99.00
11  1  4  9    15.0 1   316.0     4.10     3.00    99.00    99.00
11  1  4 10    15.0 1   317.0     3.10     4.50    99.00    99.00
11  1  4 11    15.0 1   307.0     2.10     6.10    99.00    99.00
11  1  4 12    15.0 1   313.0     2.10     7.80    99.00    99.00
11  1  4 13    15.0 1   325.0     2.10     8.80    99.00    99.00
11  1  4 14    15.0 1   322.0     2.60     9.40    99.00    99.00
11  1  4 15    15.0 1   331.0     2.60     9.60    99.00    99.00
11  1  4 16    15.0 1   350.0     2.10     9.50    99.00    99.00
11  1  4 17    15.0 1    13.0     2.10     8.80    99.00    99.00
11  1  4 18    15.0 1    19.0     0.50     7.60    99.00    99.00
11  1  4 19    15.0 1     0.0     0.00     6.60    99.00    99.00
11  1  4 20    15.0 1   299.0     0.50     5.60    99.00    99.00
11  1  4 21    15.0 1   307.0     1.50     4.60    99.00    99.00
11  1  4 22    15.0 1   319.0     1.50     4.00    99.00    99.00
11  1  4 23    15.0 1   322.0     1.50     3.40    99.00    99.00
11  1  4 24    15.0 1   318.0     2.10     2.90    99.00    99.00
11  1  5  1    15.0 1   315.0     2.60     2.40    99.00    99.00
11  1  5  2    15.0 1   304.0     2.60     1.90    99.00    99.00
11  1  5  3    15.0 1   287.0     2.60     1.50    99.00    99.00
11  1  5  4    15.0 1   300.0     2.60     1.10    99.00    99.00
11  1  5  5    15.0 1   312.0     2.10     0.80    99.00    99.00
11  1  5  6    15.0 1   315.0     1.50     0.40    99.00    99.00
11  1  5  7    15.0 1   302.0     1.50     0.10    99.00    99.00
11  1  5  8    15.0 1   305.0     1.00     0.00    99.00    99.00
11  1  5  9    15.0 1   319.0     1.50     1.60    99.00    99.00
11  1  5 10    15.0 1   318.0     1.50     3.30    99.00    99.00
11  1  5 11    15.0 1   318.0     1.50     5.30    99.00    99.00
11  1  5 12    15.0 1   319.0     1.00     7.00    99.00    99.00
11  1  5 13    15.0 1   318.0     1.50     8.90    99.00    99.00
11  1  5 14    15.0 1   330.0     1.50     9.90    99.00    99.00
11  1  5 15    15.0 1   335.0     1.50    10.30    99.00    99.00
11  1  5 16    15.0 1   338.0     2.10    10.60    99.00    99.00
11  1  5 17    15.0 1   349.0     2.10    10.00    99.00    99.00
11  1  5 18    15.0 1   336.0     1.50     9.00    99.00    99.00
11  1  5 19    15.0 1   317.0     1.50     8.00    99.00    99.00
11  1  5 20    15.0 1   307.0     1.00     7.00    99.00    99.00
11  1  5 21    15.0 1   312.0     1.00     6.10    99.00    99.00
11  1  5 22    15.0 1   310.0     0.50     5.40    99.00    99.00
11  1  5 23    15.0 1   318.0     0.50     4.60    99.00    99.00
11  1  5 24    15.0 1   312.0     1.00     4.10    99.00    99.00
11  1  6  1    15.0 1   306.0     1.50     3.60    99.00    99.00
11  1  6  2    15.0 1   303.0     2.10     3.40    99.00    99.00
11  1  6  3    15.0 1   305.0     2.60     3.00    99.00    99.00
11  1  6  4    15.0 1   303.0     2.60     2.60    99.00    99.00
11  1  6  5    15.0 1   302.0     2.10     2.30    99.00    99.00
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11   1   6   6     15.0 1   286.0      2.10      2.00     99.00     99.00
11   1   6   7     15.0 1   288.0      1.50      1.90     99.00     99.00
11   1   6   8     15.0 1   292.0      1.00      2.10     99.00     99.00
11   1   6   9     15.0 1   298.0      1.50      2.60     99.00     99.00
11   1   6  10     15.0 1   318.0      2.10      4.60     99.00     99.00
11   1   6  11     15.0 1   325.0      2.10      6.10     99.00     99.00
11   1   6  12     15.0 1   336.0      1.50      7.60     99.00     99.00
11   1   6  13     15.0 1   351.0      1.50      8.60     99.00     99.00
11   1   6  14     15.0 1     0.0      0.00      9.10     99.00     99.00
11   1   6  15     15.0 1    12.0      2.60      9.00     99.00     99.00
11   1   6  16     15.0 1    12.0      2.60      8.30     99.00     99.00
11   1   6  17     15.0 1    32.0      2.10      7.60     99.00     99.00
11   1   6  18     15.0 1    45.0      1.50      7.10     99.00     99.00
11   1   6  19     15.0 1    18.0      0.50      6.60     99.00     99.00
11   1   6  20     15.0 1   351.0      1.00      6.10     99.00     99.00
11   1   6  21     15.0 1   352.0      1.50      5.60     99.00     99.00
11   1   6  22     15.0 1     0.0      0.00      5.10     99.00     99.00
11   1   6  23     15.0 1     2.0      1.50      4.50     99.00     99.00
11   1   6  24     15.0 1   346.0      1.50      4.00     99.00     99.00
11   1   7   1     15.0 1   328.0      1.50      3.60     99.00     99.00
11   1   7   2     15.0 1   323.0      1.50      3.30     99.00     99.00
11   1   7   3     15.0 1   320.0      1.50      3.00     99.00     99.00
11   1   7   4     15.0 1   325.0      1.50      2.80     99.00     99.00
11   1   7   5     15.0 1   313.0      1.00      2.60     99.00     99.00
11   1   7   6     15.0 1   286.0      1.00      2.60     99.00     99.00
11   1   7   7     15.0 1   269.0      1.00      2.90     99.00     99.00
11   1   7   8     15.0 1   254.0      1.00      3.10     99.00     99.00
11   1   7   9     15.0 1   280.0      1.00      4.10     99.00     99.00
11   1   7  10     15.0 1   314.0      2.10      6.40     99.00     99.00
11   1   7  11     15.0 1   323.0      1.50      8.00     99.00     99.00
11   1   7  12     15.0 1   322.0      1.50      9.60     99.00     99.00
11   1   7  13     15.0 1   321.0      2.10     10.60     99.00     99.00
11   1   7  14     15.0 1   326.0      2.60     11.30     99.00     99.00
11   1   7  15     15.0 1   327.0      2.60     11.40     99.00     99.00
11   1   7  16     15.0 1   335.0      2.10     11.10     99.00     99.00
11   1   7  17     15.0 1   324.0      1.50     10.30     99.00     99.00
11   1   7  18     15.0 1   314.0      1.50      9.10     99.00     99.00
11   1   7  19     15.0 1   291.0      1.00      7.90     99.00     99.00
11   1   7  20     15.0 1     0.0      0.00      6.80     99.00     99.00
11   1   7  21     15.0 1     0.0      0.00      5.60     99.00     99.00
11   1   7  22     15.0 1     0.0      0.00      4.80     99.00     99.00
11   1   7  23     15.0 1     0.0      0.00      4.00     99.00     99.00
11   1   7  24     15.0 1     0.0      0.00      3.40     99.00     99.00
11   1   8   1     15.0 1     0.0      0.00      2.90     99.00     99.00
11   1   8   2     15.0 1     0.0      0.00      2.50     99.00     99.00
11   1   8   3     15.0 1     0.0      0.00      2.10     99.00     99.00
11   1   8   4     15.0 1     0.0      0.00      1.80     99.00     99.00
11   1   8   5     15.0 1   287.0      0.50      1.60     99.00     99.00
11   1   8   6     15.0 1   305.0      0.50      1.30     99.00     99.00
11   1   8   7     15.0 1   305.0      0.50      1.10     99.00     99.00
11   1   8   8     15.0 1   311.0      0.50      0.90     99.00     99.00
11   1   8   9     15.0 1   320.0      0.50      2.60     99.00     99.00
11   1   8  10     15.0 1   300.0      0.50      4.60     99.00     99.00
11   1   8  11     15.0 1     0.0      0.00      6.40     99.00     99.00
11   1   8  12     15.0 1   307.0      0.50      8.00     99.00     99.00
11   1   8  13     15.0 1   309.0      1.50      9.10     99.00     99.00
11   1   8  14     15.0 1   324.0      1.50     10.00     99.00     99.00
11   1   8  15     15.0 1   332.0      1.50     10.30     99.00     99.00
11   1   8  16     15.0 1   349.0      1.50     10.10     99.00     99.00
11   1   8  17     15.0 1     8.0      1.50      9.40     99.00     99.00
11   1   8  18     15.0 1    30.0      0.50      8.30     99.00     99.00
11   1   8  19     15.0 1     0.0      0.00      7.10     99.00     99.00
11   1   8  20     15.0 1     0.0      0.00      6.10     99.00     99.00
11   1   8  21     15.0 1     0.0      0.00      5.10     99.00     99.00
11   1   8  22     15.0 1     0.0      0.00      4.50     99.00     99.00
11   1   8  23     15.0 1     0.0      0.00      3.60     99.00     99.00
11   1   8  24     15.0 1   104.0      0.50      3.10     99.00     99.00
11   1   9   1     15.0 1   115.0      0.50      2.60     99.00     99.00
11   1   9   2     15.0 1   126.0      0.50      2.30     99.00     99.00
11   1   9   3     15.0 1   146.0      0.50      2.00     99.00     99.00
11   1   9   4     15.0 1   174.0      0.50      1.80     99.00     99.00
11   1   9   5     15.0 1   166.0      0.50      1.50     99.00     99.00
11   1   9   6     15.0 1   189.0      0.50      1.30     99.00     99.00
11   1   9   7     15.0 1     0.0      0.00      0.80     99.00     99.00
11   1   9   8     15.0 1   304.0      0.50      0.60     99.00     99.00
11   1   9   9     15.0 1   330.0      1.00      2.00     99.00     99.00
11   1   9  10     15.0 1   324.0      1.00      3.60     99.00     99.00
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11   1   9 11     15.0 1   321.0      1.50      5.10     99.00     99.00
11   1   9 12     15.0 1   317.0      1.50      6.90     99.00     99.00
11   1   9 13     15.0 1   314.0      1.50      8.10     99.00     99.00
11   1   9 14     15.0 1   325.0      2.10      8.80     99.00     99.00
11   1   9 15     15.0 1   330.0      2.60      8.90     99.00     99.00
11   1   9 16     15.0 1   343.0      3.10      8.40     99.00     99.00
11   1   9 17     15.0 1   351.0      3.10      7.30     99.00     99.00
11   1   9 18     15.0 1    14.0      2.60      6.40     99.00     99.00
11   1   9 19     15.0 1    26.0      1.00      5.90     99.00     99.00
11   1   9 20     15.0 1     0.0      0.00      5.30     99.00     99.00
11   1   9 21     15.0 1     0.0      0.00      4.80     99.00     99.00
11   1   9 22     15.0 1     0.0      0.00      4.30     99.00     99.00
11   1   9 23     15.0 1     0.0      0.00      3.90     99.00     99.00
11   1   9 24     15.0 1     0.0      0.00      3.50     99.00     99.00
11   1  10  1     15.0 1   291.0      0.50      3.30     99.00     99.00
11   1  10  2     15.0 1   293.0      1.00      3.10     99.00     99.00
11   1  10  3     15.0 1   290.0      1.50      2.40     99.00     99.00
11   1  10  4     15.0 1   305.0      2.10      1.40     99.00     99.00
11   1  10  5     15.0 1   298.0      2.60      0.90     99.00     99.00
11   1  10  6     15.0 1   305.0      2.60      0.60     99.00     99.00
11   1  10  7     15.0 1   304.0      2.60      0.10     99.00     99.00
11   1  10  8     15.0 1   294.0      2.10     -0.10     99.00     99.00
11   1  10  9     15.0 1   326.0      2.60      1.50     99.00     99.00
11   1  10 10     15.0 1   332.0      1.50      2.80     99.00     99.00
11   1  10 11     15.0 1   311.0      1.00      4.50     99.00     99.00
11   1  10 12     15.0 1   303.0      1.00      5.80     99.00     99.00
11   1  10 13     15.0 1   305.0      1.00      6.80     99.00     99.00
11   1  10 14     15.0 1   316.0      1.00      7.50     99.00     99.00
11   1  10 15     15.0 1   336.0      1.50      7.90     99.00     99.00
11   1  10 16     15.0 1   348.0      2.60      9.10     99.00     99.00
11   1  10 17     15.0 1     0.0      0.00      8.50     99.00     99.00
11   1  10 18     15.0 1     0.0      0.00      7.60     99.00     99.00
11   1  10 19     15.0 1   353.0      1.00      7.00     99.00     99.00
11   1  10 20     15.0 1   329.0      0.50      6.40     99.00     99.00
11   1  10 21     15.0 1   325.0      0.50      6.10     99.00     99.00
11   1  10 22     15.0 1     2.0      0.50      6.10     99.00     99.00
11   1  10 23     15.0 1   348.0      0.50      6.10     99.00     99.00
11   1  10 24     15.0 1   351.0      1.00      6.10     99.00     99.00
11   1  11  1     15.0 1   360.0      1.50      6.10     99.00     99.00
11   1  11  2     15.0 1    14.0      1.50      6.30     99.00     99.00
11   1  11  3     15.0 1     3.0      2.10      6.30     99.00     99.00
11   1  11  4     15.0 1   344.0      2.10      6.30     99.00     99.00
11   1  11  5     15.0 1   333.0      2.10      6.30     99.00     99.00
11   1  11  6     15.0 1   324.0      1.50      6.30     99.00     99.00
11   1  11  7     15.0 1   312.0      0.50      6.30     99.00     99.00
11   1  11  8     15.0 1     0.0      0.00      6.30     99.00     99.00
11   1  11  9     15.0 1   102.0      0.50      6.40     99.00     99.00
11   1  11 10     15.0 1     0.0      0.00      7.30     99.00     99.00
11   1  11 11     15.0 1   327.0      0.50      8.40     99.00     99.00
11   1  11 12     15.0 1   310.0      1.00      9.00     99.00     99.00
11   1  11 13     15.0 1   325.0      1.00      9.60     99.00     99.00
11   1  11 14     15.0 1   334.0      1.50     10.00     99.00     99.00
11   1  11 15     15.0 1   337.0      1.50     10.10     99.00     99.00
11   1  11 16     15.0 1   341.0      1.00     10.00     99.00     99.00
11   1  11 17     15.0 1   353.0      0.50      9.60     99.00     99.00
11   1  11 18     15.0 1     0.0      0.00      9.30     99.00     99.00
11   1  11 19     15.0 1     0.0      0.00      8.60     99.00     99.00
11   1  11 20     15.0 1     0.0      0.00      8.00     99.00     99.00
11   1  11 21     15.0 1   336.0      0.50      7.40     99.00     99.00
11   1  11 22     15.0 1   336.0      1.00      7.00     99.00     99.00
11   1  11 23     15.0 1   351.0      1.00      6.60     99.00     99.00
11   1  11 24     15.0 1   339.0      1.00      6.10     99.00     99.00
11   1  12  1     15.0 1   288.0      0.50      5.90     99.00     99.00
11   1  12  2     15.0 1   239.0      0.50      5.40     99.00     99.00
11   1  12  3     15.0 1   244.0      1.00      5.10     99.00     99.00
11   1  12  4     15.0 1     0.0      0.00      4.90     99.00     99.00
11   1  12  5     15.0 1    97.0      0.50      4.60     99.00     99.00
11   1  12  6     15.0 1     0.0      0.00      4.10     99.00     99.00
11   1  12  7     15.0 1    88.0      0.50      3.90     99.00     99.00
11   1  12  8     15.0 1     0.0      0.00      3.80     99.00     99.00
11   1  12  9     15.0 1     0.0      0.00      5.60     99.00     99.00
11   1  12 10     15.0 1   291.0      1.50      8.90     99.00     99.00
11   1  12 11     15.0 1   298.0      1.50     10.60     99.00     99.00
11   1  12 12     15.0 1   309.0      1.50     12.30     99.00     99.00
11   1  12 13     15.0 1   318.0      2.10     13.60     99.00     99.00
11   1  12 14     15.0 1   318.0      1.50     14.30     99.00     99.00
11   1  12 15     15.0 1   321.0      1.50     14.60     99.00     99.00
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11   1 12 16     15.0 1   319.0      1.50     14.50     99.00     99.00
11   1 12 17     15.0 1   336.0      0.50     13.60     99.00     99.00
11   1 12 18     15.0 1     0.0      0.00     12.50     99.00     99.00
11   1 12 19     15.0 1     0.0      0.00     11.10     99.00     99.00
11   1 12 20     15.0 1     0.0      0.00     10.10     99.00     99.00
11   1 12 21     15.0 1     0.0      0.00      9.10     99.00     99.00
11   1 12 22     15.0 1     0.0      0.00      8.30     99.00     99.00
11   1 12 23     15.0 1     0.0      0.00      7.60     99.00     99.00
11   1 12 24     15.0 1     0.0      0.00      7.10     99.00     99.00
11   1 13  1     15.0 1     0.0      0.00      6.60     99.00     99.00
11   1 13  2     15.0 1     0.0      0.00      6.10     99.00     99.00
11   1 13  3     15.0 1     0.0      0.00      5.80     99.00     99.00
11   1 13  4     15.0 1     0.0      0.00      5.40     99.00     99.00
11   1 13  5     15.0 1     0.0      0.00      4.60     99.00     99.00
11   1 13  6     15.0 1     0.0      0.00      3.10     99.00     99.00
11   1 13  7     15.0 1     0.0      0.00      2.10     99.00     99.00
11   1 13  8     15.0 1     0.0      0.00      1.60     99.00     99.00
11   1 13  9     15.0 1     0.0      0.00      2.10     99.00     99.00
11   1 13 10     15.0 1     0.0      0.00      4.00     99.00     99.00
11   1 13 11     15.0 1     0.0      0.00      9.10     99.00     99.00
11   1 13 12     15.0 1     0.0      0.00     11.40     99.00     99.00
11   1 13 13     15.0 1   330.0      0.50     12.50     99.00     99.00
11   1 13 14     15.0 1   327.0      1.50     13.10     99.00     99.00
11   1 13 15     15.0 1   351.0      1.50     13.30     99.00     99.00
11   1 13 16     15.0 1    16.0      1.50     12.80     99.00     99.00
11   1 13 17     15.0 1    57.0      1.50     12.00     99.00     99.00
11   1 13 18     15.0 1   104.0      1.00     10.90     99.00     99.00
11   1 13 19     15.0 1   130.0      1.50     10.10     99.00     99.00
11   1 13 20     15.0 1   146.0      1.50      9.50     99.00     99.00
11   1 13 21     15.0 1   138.0      1.50      8.90     99.00     99.00
11   1 13 22     15.0 1   111.0      1.00      8.30     99.00     99.00
11   1 13 23     15.0 1   100.0      0.50      7.50     99.00     99.00
11   1 13 24     15.0 1    98.0      1.00      6.80     99.00     99.00
11   1 14  1     15.0 1   114.0      1.00      6.50     99.00     99.00
11   1 14  2     15.0 1    93.0      0.50      6.30     99.00     99.00
11   1 14  3     15.0 1     0.0      0.00      5.90     99.00     99.00
11   1 14  4     15.0 1     0.0      0.00      5.50     99.00     99.00
11   1 14  5     15.0 1   122.0      0.50      5.10     99.00     99.00
11   1 14  6     15.0 1   136.0      0.50      5.10     99.00     99.00
11   1 14  7     15.0 1   142.0      0.50      5.00     99.00     99.00
11   1 14  8     15.0 1   164.0      0.50      5.00     99.00     99.00
11   1 14  9     15.0 1   230.0      0.50      7.00     99.00     99.00
11   1 14 10     15.0 1   280.0      1.00      9.90     99.00     99.00
11   1 14 11     15.0 1   308.0      0.50     11.80     99.00     99.00
11   1 14 12     15.0 1   307.0      1.00     13.50     99.00     99.00
11   1 14 13     15.0 1   313.0      1.50     14.50     99.00     99.00
11   1 14 14     15.0 1   311.0      1.50     15.10     99.00     99.00
11   1 14 15     15.0 1   317.0      2.10     15.50     99.00     99.00
11   1 14 16     15.0 1   326.0      1.50     15.50     99.00     99.00
11   1 14 17     15.0 1    22.0      1.00     14.80     99.00     99.00
11   1 14 18     15.0 1    36.0      0.50     13.60     99.00     99.00
11   1 14 19     15.0 1     0.0      0.00     12.40     99.00     99.00
11   1 14 20     15.0 1     0.0      0.00     11.50     99.00     99.00
11   1 14 21     15.0 1    36.0      0.50     10.60     99.00     99.00
11   1 14 22     15.0 1    47.0      0.50     10.00     99.00     99.00
11   1 14 23     15.0 1    57.0      1.00      9.40     99.00     99.00
11   1 14 24     15.0 1    40.0      0.50      8.90     99.00     99.00
11   1 15  1     15.0 1     0.0      0.00      8.60     99.00     99.00
11   1 15  2     15.0 1     0.0      0.00      8.30     99.00     99.00
11   1 15  3     15.0 1   348.0      0.50      8.10     99.00     99.00
11   1 15  4     15.0 1     0.0      0.00      8.00     99.00     99.00
11   1 15  5     15.0 1     0.0      0.00      7.90     99.00     99.00
11   1 15  6     15.0 1   180.0      0.50      7.50     99.00     99.00
11   1 15  7     15.0 1   189.0      1.00      7.30     99.00     99.00
11   1 15  8     15.0 1   202.0      1.00      7.40     99.00     99.00
11   1 15  9     15.0 1   217.0      0.50      8.10     99.00     99.00
11   1 15 10     15.0 1   267.0      1.50     11.30     99.00     99.00
11   1 15 11     15.0 1   282.0      1.00     13.10     99.00     99.00
11   1 15 12     15.0 1   290.0      1.00     15.00     99.00     99.00
11   1 15 13     15.0 1   304.0      1.00     16.50     99.00     99.00
11   1 15 14     15.0 1   320.0      1.50     17.30     99.00     99.00
11   1 15 15     15.0 1   333.0      1.50     17.50     99.00     99.00
11   1 15 16     15.0 1   336.0      1.50     19.10     99.00     99.00
11   1 15 17     15.0 1   343.0      0.50     18.50     99.00     99.00
11   1 15 18     15.0 1     0.0      0.00     17.40     99.00     99.00
11   1 15 19     15.0 1   151.0      0.50     16.10     99.00     99.00
11   1 15 20     15.0 1   162.0      1.00     15.30     99.00     99.00
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11   1 15 21     15.0 1   154.0      1.50     14.50     99.00     99.00
11   1 15 22     15.0 1   133.0      1.00     13.90     99.00     99.00
11   1 15 23     15.0 1   109.0      1.00     13.30     99.00     99.00
11   1 15 24     15.0 1   100.0      0.50     12.80     99.00     99.00
11   1 16  1     15.0 1     0.0      0.00     12.30     99.00     99.00
11   1 16  2     15.0 1   289.0      0.50     12.00     99.00     99.00
11   1 16  3     15.0 1   277.0      0.50     11.80     99.00     99.00
11   1 16  4     15.0 1   279.0      0.50     11.60     99.00     99.00
11   1 16  5     15.0 1   254.0      1.00     11.30     99.00     99.00
11   1 16  6     15.0 1   232.0      1.00     11.10     99.00     99.00
11   1 16  7     15.0 1   222.0      1.00     11.00     99.00     99.00
11   1 16  8     15.0 1   208.0      0.50     10.90     99.00     99.00
11   1 16  9     15.0 1   292.0      0.50     12.60     99.00     99.00
11   1 16 10     15.0 1   287.0      0.50     14.60     99.00     99.00
11   1 16 11     15.0 1   281.0      0.50     16.50     99.00     99.00
11   1 16 12     15.0 1   302.0      1.00     18.00     99.00     99.00
11   1 16 13     15.0 1   312.0      2.10     18.40     99.00     99.00
11   1 16 14     15.0 1   320.0      3.10     18.30     99.00     99.00
11   1 16 15     15.0 1   331.0      3.10     18.10     99.00     99.00
11   1 16 16     15.0 1   335.0      3.10     17.80     99.00     99.00
11   1 16 17     15.0 1   336.0      3.10     17.00     99.00     99.00
11   1 16 18     15.0 1   351.0      2.10     16.30     99.00     99.00
11   1 16 19     15.0 1    19.0      0.50     15.60     99.00     99.00
11   1 16 20     15.0 1   150.0      0.50     14.90     99.00     99.00
11   1 16 21     15.0 1   136.0      0.50     14.30     99.00     99.00
11   1 16 22     15.0 1   126.0      0.50     13.80     99.00     99.00
11   1 16 23     15.0 1     0.0      0.00     13.30     99.00     99.00
11   1 16 24     15.0 1     0.0      0.00     12.90     99.00     99.00
11   1 17  1     15.0 1   277.0      0.50     12.50     99.00     99.00
11   1 17  2     15.0 1   288.0      0.50     12.30     99.00     99.00
11   1 17  3     15.0 1   309.0      1.00     11.60     99.00     99.00
11   1 17  4     15.0 1   334.0      0.50     10.60     99.00     99.00
11   1 17  5     15.0 1     3.0      1.00     10.50     99.00     99.00
11   1 17  6     15.0 1     7.0      0.50     10.30     99.00     99.00
11   1 17  7     15.0 1     0.0      0.00     10.30     99.00     99.00
11   1 17  8     15.0 1     0.0      0.00     10.60     99.00     99.00
11   1 17  9     15.0 1   314.0      0.50     10.60     99.00     99.00
11   1 17 10     15.0 1   322.0      0.50     10.80     99.00     99.00
11   1 17 11     15.0 1   326.0      1.00     11.10     99.00     99.00
11   1 17 12     15.0 1   345.0      1.50     11.80     99.00     99.00
11   1 17 13     15.0 1   336.0      1.50     12.50     99.00     99.00
11   1 17 14     15.0 1   348.0      2.10     13.80     99.00     99.00
11   1 17 15     15.0 1     0.0      0.00     15.00     99.00     99.00
11   1 17 16     15.0 1    12.0      2.10     15.10     99.00     99.00
11   1 17 17     15.0 1     8.0      1.50     14.60     99.00     99.00
11   1 17 18     15.0 1   359.0      0.50     14.00     99.00     99.00
11   1 17 19     15.0 1     0.0      0.00     13.40     99.00     99.00
11   1 17 20     15.0 1     0.0      0.00     12.90     99.00     99.00
11   1 17 21     15.0 1     0.0      0.00     12.40     99.00     99.00
11   1 17 22     15.0 1     0.0      0.00     11.90     99.00     99.00
11   1 17 23     15.0 1     0.0      0.00     10.40     99.00     99.00
11   1 17 24     15.0 1     0.0      0.00      9.60     99.00     99.00
11   1 18  1     15.0 1   350.0      0.50      9.90     99.00     99.00
11   1 18  2     15.0 1   319.0      0.50     10.30     99.00     99.00
11   1 18  3     15.0 1   319.0      1.00     10.60     99.00     99.00
11   1 18  4     15.0 1   313.0      1.00     11.00     99.00     99.00
11   1 18  5     15.0 1   305.0      1.00     11.10     99.00     99.00
11   1 18  6     15.0 1   292.0      1.50     11.10     99.00     99.00
11   1 18  7     15.0 1   279.0      2.10     11.00     99.00     99.00
11   1 18  8     15.0 1   278.0      1.50     10.80     99.00     99.00
11   1 18  9     15.0 1   263.0      1.00     10.80     99.00     99.00
11   1 18 10     15.0 1     0.0      0.00     11.60     99.00     99.00
11   1 18 11     15.0 1     0.0      0.00     13.10     99.00     99.00
11   1 18 12     15.0 1     0.0      0.00     15.10     99.00     99.00
11   1 18 13     15.0 1   331.0      0.50     16.60     99.00     99.00
11   1 18 14     15.0 1   335.0      1.50     17.50     99.00     99.00
11   1 18 15     15.0 1   331.0      2.10     17.90     99.00     99.00
11   1 18 16     15.0 1   345.0      2.10     17.80     99.00     99.00
11   1 18 17     15.0 1     0.0      0.00     17.10     99.00     99.00
11   1 18 18     15.0 1    49.0      0.50     16.00     99.00     99.00
11   1 18 19     15.0 1     0.0      0.00     14.90     99.00     99.00
11   1 18 20     15.0 1   180.0      0.50     14.00     99.00     99.00
11   1 18 21     15.0 1   169.0      0.50     13.10     99.00     99.00
11   1 18 22     15.0 1   161.0      0.50     12.60     99.00     99.00
11   1 18 23     15.0 1   233.0      0.50     12.10     99.00     99.00
11   1 18 24     15.0 1   266.0      1.00     11.80     99.00     99.00
11   1 19  1     15.0 1   277.0      1.00     11.00     99.00     99.00
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11   1 19   2     15.0 1    297.0      1.50     10.10     99.00     99.00
11   1 19   3     15.0 1    315.0      1.00      9.10     99.00     99.00
11   1 19   4     15.0 1    306.0      1.00      8.60     99.00     99.00
11   1 19   5     15.0 1    333.0      1.50      8.60     99.00     99.00
11   1 19   6     15.0 1    348.0      1.00      8.30     99.00     99.00
11   1 19   7     15.0 1     12.0      1.00      8.00     99.00     99.00
11   1 19   8     15.0 1     22.0      0.50      7.90     99.00     99.00
11   1 19   9     15.0 1      7.0      2.10      9.30     99.00     99.00
11   1 19  10     15.0 1      1.0      2.10     11.10     99.00     99.00
11   1 19  11     15.0 1    344.0      2.10     12.60     99.00     99.00
11   1 19  12     15.0 1    329.0      2.10     13.80     99.00     99.00
11   1 19  13     15.0 1    320.0      2.60     14.60     99.00     99.00
11   1 19  14     15.0 1    330.0      3.10     15.60     99.00     99.00
11   1 19  15     15.0 1    341.0      3.10     16.00     99.00     99.00
11   1 19  16     15.0 1    353.0      2.10     16.10     99.00     99.00
11   1 19  17     15.0 1      0.0      0.00     15.60     99.00     99.00
11   1 19  18     15.0 1    158.0      0.50     14.60     99.00     99.00
11   1 19  19     15.0 1    150.0      1.50     13.60     99.00     99.00
11   1 19  20     15.0 1    164.0      3.10     12.60     99.00     99.00
11   1 19  21     15.0 1    167.0      3.60     11.80     99.00     99.00
11   1 19  22     15.0 1    181.0      4.10     11.30     99.00     99.00
11   1 19  23     15.0 1    198.0      3.60     11.10     99.00     99.00
11   1 19  24     15.0 1    226.0      3.10     11.10     99.00     99.00
11   1 20   1     15.0 1    269.0      4.10     10.80     99.00     99.00
11   1 20   2     15.0 1    293.0      4.10     10.10     99.00     99.00
11   1 20   3     15.0 1    317.0      4.10      9.30     99.00     99.00
11   1 20   4     15.0 1    344.0      3.10      8.60     99.00     99.00
11   1 20   5     15.0 1    337.0      2.60      8.30     99.00     99.00
11   1 20   6     15.0 1    323.0      1.50      7.90     99.00     99.00
11   1 20   7     15.0 1    295.0      1.50      7.50     99.00     99.00
11   1 20   8     15.0 1    278.0      1.50      7.40     99.00     99.00
11   1 20   9     15.0 1    300.0      3.10      9.10     99.00     99.00
11   1 20  10     15.0 1    315.0      2.60     11.10     99.00     99.00
11   1 20  11     15.0 1    298.0      2.10     13.00     99.00     99.00
11   1 20  12     15.0 1    306.0      1.50     14.30     99.00     99.00
11   1 20  13     15.0 1    333.0      2.10     15.40     99.00     99.00
11   1 20  14     15.0 1    340.0      2.10     16.10     99.00     99.00
11   1 20  15     15.0 1    342.0      2.10     16.40     99.00     99.00
11   1 20  16     15.0 1      0.0      0.00     16.30     99.00     99.00
11   1 20  17     15.0 1     31.0      2.10     15.50     99.00     99.00
11   1 20  18     15.0 1     49.0      1.50     14.30     99.00     99.00
11   1 20  19     15.0 1      0.0      0.00     13.00     99.00     99.00
11   1 20  20     15.0 1      0.0      0.00     11.60     99.00     99.00
11   1 20  21     15.0 1      0.0      0.00     10.60     99.00     99.00
11   1 20  22     15.0 1     34.0      0.50      9.90     99.00     99.00
11   1 20  23     15.0 1     39.0      0.50      9.30     99.00     99.00
11   1 20  24     15.0 1     28.0      1.00      8.60     99.00     99.00
11   1 21   1     15.0 1    349.0      0.50      8.10     99.00     99.00
11   1 21   2     15.0 1    310.0      1.00      7.60     99.00     99.00
11   1 21   3     15.0 1    299.0      1.50      7.30     99.00     99.00
11   1 21   4     15.0 1    300.0      2.10      6.90     99.00     99.00
11   1 21   5     15.0 1    297.0      2.10      6.50     99.00     99.00
11   1 21   6     15.0 1    291.0      2.60      6.10     99.00     99.00
11   1 21   7     15.0 1    279.0      2.60      5.90     99.00     99.00
11   1 21   8     15.0 1    277.0      2.10      5.90     99.00     99.00
11   1 21   9     15.0 1    305.0      1.50      7.60     99.00     99.00
11   1 21  10     15.0 1    300.0      0.50      9.30     99.00     99.00
11   1 21  11     15.0 1      0.0      0.00     11.10     99.00     99.00
11   1 21  12     15.0 1    305.0      0.50     13.10     99.00     99.00
11   1 21  13     15.0 1    299.0      1.00     14.10     99.00     99.00
11   1 21  14     15.0 1    316.0      1.00     15.00     99.00     99.00
11   1 21  15     15.0 1    340.0      1.00     15.40     99.00     99.00
11   1 21  16     15.0 1    358.0      1.50     15.30     99.00     99.00
11   1 21  17     15.0 1     28.0      1.00     14.60     99.00     99.00
11   1 21  18     15.0 1      0.0      0.00     13.40     99.00     99.00
11   1 21  19     15.0 1      0.0      0.00     12.00     99.00     99.00
11   1 21  20     15.0 1      0.0      0.00     10.90     99.00     99.00
11   1 21  21     15.0 1      0.0      0.00      9.90     99.00     99.00
11   1 21  22     15.0 1      0.0      0.00      9.10     99.00     99.00
11   1 21  23     15.0 1      0.0      0.00      8.50     99.00     99.00
11   1 21  24     15.0 1      0.0      0.00      8.00     99.00     99.00
11   1 22   1     15.0 1      0.0      0.00      7.50     99.00     99.00
11   1 22   2     15.0 1      0.0      0.00      7.00     99.00     99.00
11   1 22   3     15.0 1      0.0      0.00      6.60     99.00     99.00
11   1 22   4     15.0 1      0.0      0.00      6.30     99.00     99.00
11   1 22   5     15.0 1      0.0      0.00      6.00     99.00     99.00
11   1 22   6     15.0 1      0.0      0.00      5.60     99.00     99.00
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11   1 22   7    15.0 1      0.0      0.00     5.60    99.00    99.00
11   1 22   8    15.0 1      0.0      0.00     5.60    99.00    99.00
11   1 22   9    15.0 1      0.0      0.00     8.10    99.00    99.00
11   1 22  10    15.0 1    324.0      1.00    11.10    99.00    99.00
11   1 22  11    15.0 1    318.0      0.50    13.10    99.00    99.00
11   1 22  12    15.0 1    313.0      0.50    14.90    99.00    99.00
11   1 22  13    15.0 1    317.0      1.00    16.00    99.00    99.00
11   1 22  14    15.0 1    317.0      1.50    16.50    99.00    99.00
11   1 22  15    15.0 1    335.0      2.10    16.60    99.00    99.00
11   1 22  16    15.0 1      4.0      2.10    16.30    99.00    99.00
11   1 22  17    15.0 1      0.0      0.00    15.50    99.00    99.00
11   1 22  18    15.0 1     26.0      2.10    14.30    99.00    99.00
11   1 22  19    15.0 1     75.0      0.50    13.10    99.00    99.00
11   1 22  20    15.0 1      0.0      0.00    12.10    99.00    99.00
11   1 22  21    15.0 1      0.0      0.00    11.10    99.00    99.00
11   1 22  22    15.0 1      0.0      0.00    10.40    99.00    99.00
11   1 22  23    15.0 1    171.0      0.50     9.90    99.00    99.00
11   1 22  24    15.0 1    203.0      1.00     9.50    99.00    99.00
11   1 23   1    15.0 1    210.0      0.50     9.10    99.00    99.00
11   1 23   2    15.0 1    247.0      0.50     8.80    99.00    99.00
11   1 23   3    15.0 1    280.0      0.50     8.40    99.00    99.00
11   1 23   4    15.0 1      0.0      0.00     7.90    99.00    99.00
11   1 23   5    15.0 1     59.0      0.50     7.50    99.00    99.00
11   1 23   6    15.0 1     71.0      0.50     7.10    99.00    99.00
11   1 23   7    15.0 1     89.0      0.50     6.80    99.00    99.00
11   1 23   8    15.0 1     77.0      1.00     6.60    99.00    99.00
11   1 23   9    15.0 1     85.0      1.50     8.50    99.00    99.00
11   1 23  10    15.0 1     69.0      1.50    12.00    99.00    99.00
11   1 23  11    15.0 1     56.0      1.50    13.80    99.00    99.00
11   1 23  12    15.0 1     54.0      2.10    15.10    99.00    99.00
11   1 23  13    15.0 1     30.0      2.60    16.50    99.00    99.00
11   1 23  14    15.0 1     19.0      3.10    16.90    99.00    99.00
11   1 23  15    15.0 1     10.0      3.10    16.90    99.00    99.00
11   1 23  16    15.0 1     13.0      2.60    16.50    99.00    99.00
11   1 23  17    15.0 1     12.0      2.10    15.60    99.00    99.00
11   1 23  18    15.0 1     35.0      1.50    14.50    99.00    99.00
11   1 23  19    15.0 1     14.0      0.50    13.10    99.00    99.00
11   1 23  20    15.0 1      0.0      0.00    11.90    99.00    99.00
11   1 23  21    15.0 1      0.0      0.00    10.80    99.00    99.00
11   1 23  22    15.0 1      0.0      0.00     9.80    99.00    99.00
11   1 23  23    15.0 1      0.0      0.00     9.10    99.00    99.00
11   1 23  24    15.0 1      0.0      0.00     8.50    99.00    99.00
11   1 24   1    15.0 1     56.0      0.50     7.90    99.00    99.00
11   1 24   2    15.0 1      0.0      0.00     7.50    99.00    99.00
11   1 24   3    15.0 1      0.0      0.00     7.10    99.00    99.00
11   1 24   4    15.0 1    308.0      0.50     6.60    99.00    99.00
11   1 24   5    15.0 1    289.0      1.00     6.50    99.00    99.00
11   1 24   6    15.0 1    282.0      1.00     6.30    99.00    99.00
11   1 24   7    15.0 1    267.0      1.00     6.00    99.00    99.00
11   1 24   8    15.0 1    243.0      1.00     5.90    99.00    99.00
11   1 24   9    15.0 1    278.0      0.50     8.00    99.00    99.00
11   1 24  10    15.0 1      0.0      0.00    10.30    99.00    99.00
11   1 24  11    15.0 1      0.0      0.00    12.10    99.00    99.00
11   1 24  12    15.0 1    298.0      1.00    13.60    99.00    99.00
11   1 24  13    15.0 1    309.0      1.50    14.60    99.00    99.00
11   1 24  14    15.0 1    327.0      2.10    14.90    99.00    99.00
11   1 24  15    15.0 1    343.0      2.60    14.60    99.00    99.00
11   1 24  16    15.0 1    348.0      2.60    14.00    99.00    99.00
11   1 24  17    15.0 1      8.0      2.10    13.40    99.00    99.00
11   1 24  18    15.0 1    322.0      0.50    12.50    99.00    99.00
11   1 24  19    15.0 1    232.0      0.50    11.40    99.00    99.00
11   1 24  20    15.0 1    242.0      0.50    10.40    99.00    99.00
11   1 24  21    15.0 1      0.0      0.00     9.60    99.00    99.00
11   1 24  22    15.0 1     75.0      0.50     8.80    99.00    99.00
11   1 24  23    15.0 1     73.0      0.50     8.30    99.00    99.00
11   1 24  24    15.0 1      0.0      0.00     7.80    99.00    99.00
11   1 25   1    15.0 1      0.0      0.00     7.30    99.00    99.00
11   1 25   2    15.0 1      0.0      0.00     6.90    99.00    99.00
11   1 25   3    15.0 1      0.0      0.00     6.60    99.00    99.00
11   1 25   4    15.0 1      0.0      0.00     6.30    99.00    99.00
11   1 25   5    15.0 1      0.0      0.00     6.00    99.00    99.00
11   1 25   6    15.0 1      0.0      0.00     5.60    99.00    99.00
11   1 25   7    15.0 1      0.0      0.00     5.50    99.00    99.00
11   1 25   8    15.0 1      0.0      0.00     5.50    99.00    99.00
11   1 25   9    15.0 1      0.0      0.00     8.00    99.00    99.00
11   1 25  10    15.0 1    322.0      1.00    11.00    99.00    99.00
11   1 25  11    15.0 1    311.0      1.00    13.00    99.00    99.00
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11   1 25 12     15.0 1   308.0      1.00     14.90     99.00     99.00
11   1 25 13     15.0 1   323.0      1.50     16.10     99.00     99.00
11   1 25 14     15.0 1   332.0      1.50     16.80     99.00     99.00
11   1 25 15     15.0 1   342.0      1.50     17.00     99.00     99.00
11   1 25 16     15.0 1   330.0      1.50     18.40     99.00     99.00
11   1 25 17     15.0 1   336.0      1.50     17.80     99.00     99.00
11   1 25 18     15.0 1   331.0      1.00     16.60     99.00     99.00
11   1 25 19     15.0 1     0.0      0.00     15.40     99.00     99.00
11   1 25 20     15.0 1   210.0      0.50     14.10     99.00     99.00
11   1 25 21     15.0 1     0.0      0.00     13.10     99.00     99.00
11   1 25 22     15.0 1     0.0      0.00     12.30     99.00     99.00
11   1 25 23     15.0 1   327.0      0.50     11.50     99.00     99.00
11   1 25 24     15.0 1   320.0      1.00     10.90     99.00     99.00
11   1 26  1     15.0 1   302.0      1.00     10.50     99.00     99.00
11   1 26  2     15.0 1   305.0      1.50     10.10     99.00     99.00
11   1 26  3     15.0 1   288.0      2.10      9.90     99.00     99.00
11   1 26  4     15.0 1   298.0      2.60      9.60     99.00     99.00
11   1 26  5     15.0 1   314.0      2.60      9.10     99.00     99.00
11   1 26  6     15.0 1   306.0      2.10      8.80     99.00     99.00
11   1 26  7     15.0 1   313.0      1.50      8.40     99.00     99.00
11   1 26  8     15.0 1   276.0      0.50      8.10     99.00     99.00
11   1 26  9     15.0 1   313.0      2.10     10.30     99.00     99.00
11   1 26 10     15.0 1   314.0      1.50     11.90     99.00     99.00
11   1 26 11     15.0 1   322.0      1.00     14.10     99.00     99.00
11   1 26 12     15.0 1   326.0      1.00     16.10     99.00     99.00
11   1 26 13     15.0 1   346.0      1.00     17.60     99.00     99.00
11   1 26 14     15.0 1    12.0      1.50     18.50     99.00     99.00
11   1 26 15     15.0 1    16.0      2.60     18.60     99.00     99.00
11   1 26 16     15.0 1    30.0      3.10     18.00     99.00     99.00
11   1 26 17     15.0 1    45.0      3.60     16.90     99.00     99.00
11   1 26 18     15.0 1    61.0      3.60     15.80     99.00     99.00
11   1 26 19     15.0 1    94.0      2.10     15.00     99.00     99.00
11   1 26 20     15.0 1   158.0      1.00     13.90     99.00     99.00
11   1 26 21     15.0 1   176.0      1.00     12.60     99.00     99.00
11   1 26 22     15.0 1   156.0      1.50     11.60     99.00     99.00
11   1 26 23     15.0 1   164.0      2.60     11.00     99.00     99.00
11   1 26 24     15.0 1   158.0      3.10     10.50     99.00     99.00
11   1 27  1     15.0 1   151.0      2.60     10.40     99.00     99.00
11   1 27  2     15.0 1   142.0      2.60     10.30     99.00     99.00
11   1 27  3     15.0 1   111.0      3.10      9.90     99.00     99.00
11   1 27  4     15.0 1    81.0      3.10      9.40     99.00     99.00
11   1 27  5     15.0 1     8.0      1.50      8.60     99.00     99.00
11   1 27  6     15.0 1   351.0      2.60      8.00     99.00     99.00
11   1 27  7     15.0 1   347.0      2.10      7.30     99.00     99.00
11   1 27  8     15.0 1    10.0      1.50      7.10     99.00     99.00
11   1 27  9     15.0 1   351.0      0.50      9.60     99.00     99.00
11   1 27 10     15.0 1     0.0      0.00     12.10     99.00     99.00
11   1 27 11     15.0 1     0.0      0.00     14.40     99.00     99.00
11   1 27 12     15.0 1     0.0      0.00     15.90     99.00     99.00
11   1 27 13     15.0 1     0.0      0.00     17.00     99.00     99.00
11   1 27 14     15.0 1    17.0      0.50     17.60     99.00     99.00
11   1 27 15     15.0 1   354.0      1.00     18.00     99.00     99.00
11   1 27 16     15.0 1   336.0      2.10     17.80     99.00     99.00
11   1 27 17     15.0 1   348.0      2.60     17.00     99.00     99.00
11   1 27 18     15.0 1     1.0      2.10     15.60     99.00     99.00
11   1 27 19     15.0 1   356.0      0.50     14.30     99.00     99.00
11   1 27 20     15.0 1     0.0      0.00     12.90     99.00     99.00
11   1 27 21     15.0 1     0.0      0.00     11.60     99.00     99.00
11   1 27 22     15.0 1     0.0      0.00     10.80     99.00     99.00
11   1 27 23     15.0 1     0.0      0.00     10.00     99.00     99.00
11   1 27 24     15.0 1     0.0      0.00      9.40     99.00     99.00
11   1 28  1     15.0 1     7.0      0.50      9.00     99.00     99.00
11   1 28  2     15.0 1     0.0      0.00      8.50     99.00     99.00
11   1 28  3     15.0 1   307.0      0.50      8.00     99.00     99.00
11   1 28  4     15.0 1   294.0      1.00      7.60     99.00     99.00
11   1 28  5     15.0 1   292.0      1.50      7.30     99.00     99.00
11   1 28  6     15.0 1   287.0      2.60      7.10     99.00     99.00
11   1 28  7     15.0 1   286.0      2.60      7.00     99.00     99.00
11   1 28  8     15.0 1   299.0      2.10      7.00     99.00     99.00
11   1 28  9     15.0 1   319.0      2.10      9.00     99.00     99.00
11   1 28 10     15.0 1   334.0      1.00     10.60     99.00     99.00
11   1 28 11     15.0 1   324.0      0.50     12.50     99.00     99.00
11   1 28 12     15.0 1   316.0      0.50     14.10     99.00     99.00
11   1 28 13     15.0 1   328.0      1.00     15.10     99.00     99.00
11   1 28 14     15.0 1   335.0      1.00     15.90     99.00     99.00
11   1 28 15     15.0 1   331.0      1.00     16.30     99.00     99.00
11   1 28 16     15.0 1   332.0      1.00     16.10     99.00     99.00
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11   1 28 17    15.0 1   301.0     0.50    15.50    99.00    99.00
11   1 28 18    15.0 1     0.0     0.00    14.10    99.00    99.00
11   1 28 19    15.0 1     0.0     0.00    12.80    99.00    99.00
11   1 28 20    15.0 1     0.0     0.00    11.60    99.00    99.00
11   1 28 21    15.0 1     0.0     0.00    10.60    99.00    99.00
11   1 28 22    15.0 1    41.0     0.50     9.80    99.00    99.00
11   1 28 23    15.0 1    18.0     0.50     9.10    99.00    99.00
11   1 28 24    15.0 1   268.0     0.50     8.60    99.00    99.00
11   1 29  1    15.0 1   167.0     0.50     8.50    99.00    99.00
11   1 29  2    15.0 1   142.0     0.50     8.10    99.00    99.00
11   1 29  3    15.0 1     0.0     0.00     7.80    99.00    99.00
11   1 29  4    15.0 1   301.0     0.50     7.40    99.00    99.00
11   1 29  5    15.0 1   298.0     1.00     7.00    99.00    99.00
11   1 29  6    15.0 1   304.0     1.00     6.60    99.00    99.00
11   1 29  7    15.0 1   323.0     1.00     6.40    99.00    99.00
11   1 29  8    15.0 1   354.0     0.50     6.40    99.00    99.00
11   1 29  9    15.0 1     3.0     0.50     8.60    99.00    99.00
11   1 29 10    15.0 1     0.0     0.00     9.90    99.00    99.00
11   1 29 11    15.0 1   283.0     0.50    11.10    99.00    99.00
11   1 29 12    15.0 1   290.0     1.00    12.10    99.00    99.00
11   1 29 13    15.0 1   303.0     1.50    12.90    99.00    99.00
11   1 29 14    15.0 1   321.0     1.50    13.30    99.00    99.00
11   1 29 15    15.0 1   335.0     1.50    13.40    99.00    99.00
11   1 29 16    15.0 1   344.0     0.50    13.40    99.00    99.00
11   1 29 17    15.0 1    90.0     0.50    12.90    99.00    99.00
11   1 29 18    15.0 1   127.0     0.50    12.30    99.00    99.00
11   1 29 19    15.0 1   183.0     1.00    11.90    99.00    99.00
11   1 29 20    15.0 1   187.0     1.50    11.60    99.00    99.00
11   1 29 21    15.0 1   199.0     2.10    11.10    99.00    99.00
11   1 29 22    15.0 1   202.0     2.10    10.50    99.00    99.00
11   1 29 23    15.0 1   194.0     2.60     9.90    99.00    99.00
11   1 29 24    15.0 1   168.0     3.10     9.80    99.00    99.00
11   1 30  1    15.0 1   145.0     2.60     9.60    99.00    99.00
11   1 30  2    15.0 1   122.0     3.10     9.50    99.00    99.00
11   1 30  3    15.0 1   127.0     3.60     9.40    99.00    99.00
11   1 30  4    15.0 1   133.0     3.60     9.40    99.00    99.00
11   1 30  5    15.0 1   140.0     3.60     9.40    99.00    99.00
11   1 30  6    15.0 1   138.0     3.60     9.30    99.00    99.00
11   1 30  7    15.0 1   142.0     3.60     9.10    99.00    99.00
11   1 30  8    15.0 1   145.0     3.10     9.50    99.00    99.00
11   1 30  9    15.0 1   137.0     2.10    10.30    99.00    99.00
11   1 30 10    15.0 1   132.0     1.00    11.30    99.00    99.00
11   1 30 11    15.0 1   102.0     2.10    11.80    99.00    99.00
11   1 30 12    15.0 1    89.0     3.10    11.80    99.00    99.00
11   1 30 13    15.0 1    94.0     3.10    12.00    99.00    99.00
11   1 30 14    15.0 1   100.0     1.50    12.60    99.00    99.00
11   1 30 15    15.0 1   348.0     3.10    13.30    99.00    99.00
11   1 30 16    15.0 1   333.0     3.10    13.80    99.00    99.00
11   1 30 17    15.0 1   342.0     4.10    12.80    99.00    99.00
11   1 30 18    15.0 1   351.0     3.10    11.90    99.00    99.00
11   1 30 19    15.0 1   354.0     2.60    11.30    99.00    99.00
11   1 30 20    15.0 1   343.0     2.10    10.60    99.00    99.00
11   1 30 21    15.0 1   308.0     1.00    10.10    99.00    99.00
11   1 30 22    15.0 1   301.0     1.00     9.80    99.00    99.00
11   1 30 23    15.0 1   301.0     1.00     9.10    99.00    99.00
11   1 30 24    15.0 1   298.0     1.00     8.60    99.00    99.00
11   1 31  1    15.0 1   284.0     1.50     8.10    99.00    99.00
11   1 31  2    15.0 1   268.0     2.10     7.60    99.00    99.00
11   1 31  3    15.0 1   272.0     2.10     7.10    99.00    99.00
11   1 31  4    15.0 1   261.0     2.60     6.80    99.00    99.00
11   1 31  5    15.0 1   263.0     2.60     6.00    99.00    99.00
11   1 31  6    15.0 1   267.0     2.10     5.10    99.00    99.00
11   1 31  7    15.0 1   315.0     1.00     4.40    99.00    99.00
11   1 31  8    15.0 1   332.0     1.00     3.90    99.00    99.00
11   1 31  9    15.0 1   346.0     1.50     5.30    99.00    99.00
11   1 31 10    15.0 1   354.0     1.00     7.40    99.00    99.00
11   1 31 11    15.0 1   308.0     0.50     9.10    99.00    99.00
11   1 31 12    15.0 1   296.0     1.00    10.60    99.00    99.00
11   1 31 13    15.0 1   297.0     1.00    11.80    99.00    99.00
11   1 31 14    15.0 1   324.0     1.00    12.60    99.00    99.00
11   1 31 15    15.0 1   339.0     1.00    13.00    99.00    99.00
11   1 31 16    15.0 1   346.0     1.50    13.00    99.00    99.00
11   1 31 17    15.0 1   358.0     1.50    12.50    99.00    99.00
11   1 31 18    15.0 1   339.0     0.50    11.60    99.00    99.00
11   1 31 19    15.0 1     0.0     0.00    10.30    99.00    99.00
11   1 31 20    15.0 1     0.0     0.00     9.10    99.00    99.00
11   1 31 21    15.0 1   141.0     0.50     8.10    99.00    99.00
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11   1 31 22     15.0 1   138.0      1.00      7.30     99.00     99.00
11   1 31 23     15.0 1   136.0      1.50      6.60     99.00     99.00
11   1 31 24     15.0 1   133.0      1.50      6.30     99.00     99.00
11   2  1  1     15.0 1   153.0      1.00      5.90     99.00     99.00
11   2  1  2     15.0 1   178.0      1.00      5.60     99.00     99.00
11   2  1  3     15.0 1   227.0      1.00      5.10     99.00     99.00
11   2  1  4     15.0 1   259.0      1.00      4.80     99.00     99.00
11   2  1  5     15.0 1   277.0      1.50      4.50     99.00     99.00
11   2  1  6     15.0 1   276.0      1.00      4.10     99.00     99.00
11   2  1  7     15.0 1   259.0      1.00      3.60     99.00     99.00
11   2  1  8     15.0 1   226.0      0.50      3.60     99.00     99.00
11   2  1  9     15.0 1   280.0      0.50      6.10     99.00     99.00
11   2  1 10     15.0 1     0.0      0.00      8.10     99.00     99.00
11   2  1 11     15.0 1     0.0      0.00     10.00     99.00     99.00
11   2  1 12     15.0 1   276.0      0.50     11.40     99.00     99.00
11   2  1 13     15.0 1   304.0      0.50     12.50     99.00     99.00
11   2  1 14     15.0 1   309.0      1.00     13.30     99.00     99.00
11   2  1 15     15.0 1   326.0      1.50     13.60     99.00     99.00
11   2  1 16     15.0 1   326.0      1.50     13.60     99.00     99.00
11   2  1 17     15.0 1   348.0      1.50     13.00     99.00     99.00
11   2  1 18     15.0 1    22.0      0.50     11.90     99.00     99.00
11   2  1 19     15.0 1    86.0      0.50     10.50     99.00     99.00
11   2  1 20     15.0 1   149.0      1.00      9.10     99.00     99.00
11   2  1 21     15.0 1   195.0      3.10      8.60     99.00     99.00
11   2  1 22     15.0 1   222.0      4.60      7.90     99.00     99.00
11   2  1 23     15.0 1   221.0      4.10      6.80     99.00     99.00
11   2  1 24     15.0 1   222.0      4.10      5.80     99.00     99.00
11   2  2  1     15.0 1   222.0      4.10      5.00     99.00     99.00
11   2  2  2     15.0 1   235.0      4.10      4.30     99.00     99.00
11   2  2  3     15.0 1   243.0      4.10      3.60     99.00     99.00
11   2  2  4     15.0 1   245.0      4.10      3.10     99.00     99.00
11   2  2  5     15.0 1   239.0      4.10      2.80     99.00     99.00
11   2  2  6     15.0 1   243.0      3.10      2.50     99.00     99.00
11   2  2  7     15.0 1   226.0      2.60      2.30     99.00     99.00
11   2  2  8     15.0 1   206.0      1.50      2.30     99.00     99.00
11   2  2  9     15.0 1   185.0      2.10      5.10     99.00     99.00
11   2  2 10     15.0 1   196.0      1.00      7.40     99.00     99.00
11   2  2 11     15.0 1   251.0      1.00      9.60     99.00     99.00
11   2  2 12     15.0 1   276.0      1.50     11.00     99.00     99.00
11   2  2 13     15.0 1   303.0      1.50     12.00     99.00     99.00
11   2  2 14     15.0 1   326.0      1.50     12.60     99.00     99.00
11   2  2 15     15.0 1   352.0      2.10     12.80     99.00     99.00
11   2  2 16     15.0 1    10.0      2.60     12.40     99.00     99.00
11   2  2 17     15.0 1    28.0      3.60     11.30     99.00     99.00
11   2  2 18     15.0 1    54.0      3.10     10.10     99.00     99.00
11   2  2 19     15.0 1    78.0      1.50      8.90     99.00     99.00
11   2  2 20     15.0 1   217.0      0.50      7.40     99.00     99.00
11   2  2 21     15.0 1   243.0      1.50      6.50     99.00     99.00
11   2  2 22     15.0 1   270.0      1.50      5.90     99.00     99.00
11   2  2 23     15.0 1   269.0      1.00      5.10     99.00     99.00
11   2  2 24     15.0 1   263.0      0.50      4.60     99.00     99.00
11   2  3  1     15.0 1   281.0      0.50      4.00     99.00     99.00
11   2  3  2     15.0 1   295.0      0.50      3.40     99.00     99.00
11   2  3  3     15.0 1   326.0      0.50      2.90     99.00     99.00
11   2  3  4     15.0 1     8.0      0.50      2.40     99.00     99.00
11   2  3  5     15.0 1     6.0      0.50      1.90     99.00     99.00
11   2  3  6     15.0 1     0.0      0.00      1.50     99.00     99.00
11   2  3  7     15.0 1   220.0      1.00      1.10     99.00     99.00
11   2  3  8     15.0 1   222.0      1.50      1.30     99.00     99.00
11   2  3  9     15.0 1   244.0      1.50      4.10     99.00     99.00
11   2  3 10     15.0 1   243.0      1.00      6.30     99.00     99.00
11   2  3 11     15.0 1   235.0      0.50      8.30     99.00     99.00
11   2  3 12     15.0 1     0.0      0.00      9.60     99.00     99.00
11   2  3 13     15.0 1     0.0      0.00     10.80     99.00     99.00
11   2  3 14     15.0 1     0.0      0.00     11.60     99.00     99.00
11   2  3 15     15.0 1   332.0      0.50     12.00     99.00     99.00
11   2  3 16     15.0 1    17.0      1.00     12.00     99.00     99.00
11   2  3 17     15.0 1    37.0      1.00     11.50     99.00     99.00
11   2  3 18     15.0 1    55.0      0.50     10.10     99.00     99.00
11   2  3 19     15.0 1     0.0      0.00      8.80     99.00     99.00
11   2  3 20     15.0 1   132.0      0.50      7.50     99.00     99.00
11   2  3 21     15.0 1   123.0      1.00      6.40     99.00     99.00
11   2  3 22     15.0 1   108.0      1.50      5.50     99.00     99.00
11   2  3 23     15.0 1   113.0      2.10      4.80     99.00     99.00
11   2  3 24     15.0 1   125.0      2.60      4.30     99.00     99.00
11   2  4  1     15.0 1   117.0      2.10      4.00     99.00     99.00
11   2  4  2     15.0 1   107.0      1.00      3.60     99.00     99.00
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11  2  4  3    15.0 1    76.0     0.50     2.90    99.00    99.00
11  2  4  4    15.0 1     0.0     0.00     2.40    99.00    99.00
11  2  4  5    15.0 1     0.0     0.00     2.10    99.00    99.00
11  2  4  6    15.0 1   318.0     0.50     1.90    99.00    99.00
11  2  4  7    15.0 1   317.0     0.50     1.60    99.00    99.00
11  2  4  8    15.0 1   319.0     0.50     1.90    99.00    99.00
11  2  4  9    15.0 1     0.0     0.00     4.90    99.00    99.00
11  2  4 10    15.0 1     0.0     0.00     7.40    99.00    99.00
11  2  4 11    15.0 1     0.0     0.00     9.60    99.00    99.00
11  2  4 12    15.0 1     0.0     0.00    11.60    99.00    99.00
11  2  4 13    15.0 1     0.0     0.00    12.80    99.00    99.00
11  2  4 14    15.0 1   317.0     0.50    13.80    99.00    99.00
11  2  4 15    15.0 1   335.0     1.00    14.30    99.00    99.00
11  2  4 16    15.0 1   342.0     2.10    16.10    99.00    99.00
11  2  4 17    15.0 1   346.0     1.50    15.60    99.00    99.00
11  2  4 18    15.0 1   352.0     1.00    14.60    99.00    99.00
11  2  4 19    15.0 1     0.0     0.00    13.40    99.00    99.00
11  2  4 20    15.0 1     0.0     0.00    12.30    99.00    99.00
11  2  4 21    15.0 1     0.0     0.00    11.10    99.00    99.00
11  2  4 22    15.0 1   104.0     0.50    10.30    99.00    99.00
11  2  4 23    15.0 1   102.0     0.50     9.60    99.00    99.00
11  2  4 24    15.0 1    98.0     0.50     9.00    99.00    99.00
11  2  5  1    15.0 1    86.0     0.50     8.40    99.00    99.00
11  2  5  2    15.0 1     0.0     0.00     7.90    99.00    99.00
11  2  5  3    15.0 1     0.0     0.00     7.50    99.00    99.00
11  2  5  4    15.0 1     0.0     0.00     7.30    99.00    99.00
11  2  5  5    15.0 1   259.0     0.50     7.10    99.00    99.00
11  2  5  6    15.0 1   226.0     0.50     7.00    99.00    99.00
11  2  5  7    15.0 1   199.0     0.50     6.80    99.00    99.00
11  2  5  8    15.0 1   188.0     0.50     7.00    99.00    99.00
11  2  5  9    15.0 1     0.0     0.00     9.90    99.00    99.00
11  2  5 10    15.0 1     0.0     0.00    12.10    99.00    99.00
11  2  5 11    15.0 1     0.0     0.00    14.10    99.00    99.00
11  2  5 12    15.0 1     0.0     0.00    15.40    99.00    99.00
11  2  5 13    15.0 1   285.0     0.50    16.60    99.00    99.00
11  2  5 14    15.0 1   316.0     1.00    17.50    99.00    99.00
11  2  5 15    15.0 1   344.0     1.50    17.90    99.00    99.00
11  2  5 16    15.0 1   345.0     2.10    17.90    99.00    99.00
11  2  5 17    15.0 1     0.0     0.00    17.50    99.00    99.00
11  2  5 18    15.0 1   157.0     1.00    16.30    99.00    99.00
11  2  5 19    15.0 1   175.0     2.60    15.10    99.00    99.00
11  2  5 20    15.0 1   172.0     4.10    14.10    99.00    99.00
11  2  5 21    15.0 1   169.0     4.60    13.40    99.00    99.00
11  2  5 22    15.0 1   162.0     3.60    12.90    99.00    99.00
11  2  5 23    15.0 1   154.0     3.10    12.10    99.00    99.00
11  2  5 24    15.0 1   157.0     1.50    11.30    99.00    99.00
11  2  6  1    15.0 1   208.0     1.50    10.60    99.00    99.00
11  2  6  2    15.0 1   253.0     2.60    10.30    99.00    99.00
11  2  6  3    15.0 1   270.0     3.60     9.90    99.00    99.00
11  2  6  4    15.0 1   266.0     3.60     9.40    99.00    99.00
11  2  6  5    15.0 1   268.0     3.10     9.00    99.00    99.00
11  2  6  6    15.0 1   257.0     2.60     8.60    99.00    99.00
11  2  6  7    15.0 1   254.0     3.10     8.40    99.00    99.00
11  2  6  8    15.0 1   249.0     3.10     8.60    99.00    99.00
11  2  6  9    15.0 1   284.0     3.10    10.60    99.00    99.00
11  2  6 10    15.0 1   278.0     2.60    12.80    99.00    99.00
11  2  6 11    15.0 1   268.0     2.60    15.30    99.00    99.00
11  2  6 12    15.0 1   276.0     2.60    16.90    99.00    99.00
11  2  6 13    15.0 1   304.0     2.60    17.90    99.00    99.00
11  2  6 14    15.0 1   319.0     2.60    18.60    99.00    99.00
11  2  6 15    15.0 1   335.0     2.60    18.90    99.00    99.00
11  2  6 16    15.0 1   332.0     2.10    18.80    99.00    99.00
11  2  6 17    15.0 1   352.0     2.10    18.10    99.00    99.00
11  2  6 18    15.0 1   352.0     1.00    17.00    99.00    99.00
11  2  6 19    15.0 1     0.0     0.00    15.60    99.00    99.00
11  2  6 20    15.0 1   191.0     0.50    14.30    99.00    99.00
11  2  6 21    15.0 1   189.0     0.50    13.40    99.00    99.00
11  2  6 22    15.0 1   132.0     0.50    12.50    99.00    99.00
11  2  6 23    15.0 1    97.0     1.00    11.60    99.00    99.00
11  2  6 24    15.0 1    97.0     1.00    11.00    99.00    99.00
11  2  7  1    15.0 1   108.0     0.50    10.50    99.00    99.00
11  2  7  2    15.0 1   135.0     0.50    10.00    99.00    99.00
11  2  7  3    15.0 1     0.0     0.00     9.60    99.00    99.00
11  2  7  4    15.0 1     0.0     0.00     9.10    99.00    99.00
11  2  7  5    15.0 1     0.0     0.00     8.90    99.00    99.00
11  2  7  6    15.0 1     0.0     0.00     8.60    99.00    99.00
11  2  7  7    15.0 1    92.0     0.50     8.30    99.00    99.00
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11  2  7  8    15.0 1   124.0     0.50     8.10    99.00    99.00
11  2  7  9    15.0 1     0.0     0.00    11.00    99.00    99.00
11  2  7 10    15.0 1     0.0     0.00    13.80    99.00    99.00
11  2  7 11    15.0 1     0.0     0.00    15.90    99.00    99.00
11  2  7 12    15.0 1     0.0     0.00    17.80    99.00    99.00
11  2  7 13    15.0 1     0.0     0.00    18.90    99.00    99.00
11  2  7 14    15.0 1   320.0     1.00    19.60    99.00    99.00
11  2  7 15    15.0 1   331.0     2.60    20.00    99.00    99.00
11  2  7 16    15.0 1   331.0     3.10    19.60    99.00    99.00
11  2  7 17    15.0 1   344.0     4.10    18.50    99.00    99.00
11  2  7 18    15.0 1   343.0     4.10    17.10    99.00    99.00
11  2  7 19    15.0 1   318.0     3.60    16.00    99.00    99.00
11  2  7 20    15.0 1   325.0     3.60    14.60    99.00    99.00
11  2  7 21    15.0 1   310.0     3.10    13.50    99.00    99.00
11  2  7 22    15.0 1   315.0     2.10    12.60    99.00    99.00
11  2  7 23    15.0 1   293.0     1.50    12.10    99.00    99.00
11  2  7 24    15.0 1   294.0     1.00    11.50    99.00    99.00
11  2  8  1    15.0 1   280.0     1.00    10.80    99.00    99.00
11  2  8  2    15.0 1   261.0     1.00    10.10    99.00    99.00
11  2  8  3    15.0 1   245.0     1.50     9.40    99.00    99.00
11  2  8  4    15.0 1   251.0     2.10     8.60    99.00    99.00
11  2  8  5    15.0 1   260.0     1.50     7.80    99.00    99.00
11  2  8  6    15.0 1   252.0     1.00     7.10    99.00    99.00
11  2  8  7    15.0 1   221.0     1.00     6.60    99.00    99.00
11  2  8  8    15.0 1   195.0     1.00     6.60    99.00    99.00
11  2  8  9    15.0 1   351.0     3.60     9.30    99.00    99.00
11  2  8 10    15.0 1   354.0     3.10    11.00    99.00    99.00
11  2  8 11    15.0 1   346.0     2.60    12.30    99.00    99.00
11  2  8 12    15.0 1   343.0     2.60    13.40    99.00    99.00
11  2  8 13    15.0 1   344.0     3.10    14.30    99.00    99.00
11  2  8 14    15.0 1   342.0     4.10    14.80    99.00    99.00
11  2  8 15    15.0 1   342.0     4.10    15.00    99.00    99.00
11  2  8 16    15.0 1   333.0     3.10    14.90    99.00    99.00
11  2  8 17    15.0 1   318.0     2.60    14.30    99.00    99.00
11  2  8 18    15.0 1   309.0     2.60    13.10    99.00    99.00
11  2  8 19    15.0 1   315.0     2.60    12.00    99.00    99.00
11  2  8 20    15.0 1   287.0     2.10    10.90    99.00    99.00
11  2  8 21    15.0 1   273.0     2.10    10.00    99.00    99.00
11  2  8 22    15.0 1   229.0     3.10     9.10    99.00    99.00
11  2  8 23    15.0 1   226.0     3.60     8.30    99.00    99.00
11  2  8 24    15.0 1   232.0     4.10     7.50    99.00    99.00
11  2  9  1    15.0 1   239.0     4.60     6.80    99.00    99.00
11  2  9  2    15.0 1   264.0     4.60     6.30    99.00    99.00
11  2  9  3    15.0 1   266.0     4.60     5.80    99.00    99.00
11  2  9  4    15.0 1   277.0     4.60     5.30    99.00    99.00
11  2  9  5    15.0 1   281.0     4.10     4.90    99.00    99.00
11  2  9  6    15.0 1   278.0     4.10     4.60    99.00    99.00
11  2  9  7    15.0 1   286.0     3.60     4.40    99.00    99.00
11  2  9  8    15.0 1   287.0     3.10     4.80    99.00    99.00
11  2  9  9    15.0 1   310.0     3.60     7.00    99.00    99.00
11  2  9 10    15.0 1   291.0     2.60     9.00    99.00    99.00
11  2  9 11    15.0 1   291.0     1.50    10.60    99.00    99.00
11  2  9 12    15.0 1   324.0     1.50    12.00    99.00    99.00
11  2  9 13    15.0 1   339.0     1.50    13.10    99.00    99.00
11  2  9 14    15.0 1   346.0     2.10    13.90    99.00    99.00
11  2  9 15    15.0 1   347.0     2.60    14.30    99.00    99.00
11  2  9 16    15.0 1     0.0     0.00    13.80    99.00    99.00
11  2  9 17    15.0 1    22.0     3.10    13.00    99.00    99.00
11  2  9 18    15.0 1    37.0     3.60    11.90    99.00    99.00
11  2  9 19    15.0 1    47.0     2.60    10.90    99.00    99.00
11  2  9 20    15.0 1    49.0     0.50     9.90    99.00    99.00
11  2  9 21    15.0 1   206.0     0.50     8.60    99.00    99.00
11  2  9 22    15.0 1   235.0     0.50     7.60    99.00    99.00
11  2  9 23    15.0 1   285.0     1.00     7.00    99.00    99.00
11  2  9 24    15.0 1   271.0     1.00     6.40    99.00    99.00
11  2 10  1    15.0 1   265.0     1.50     6.00    99.00    99.00
11  2 10  2    15.0 1   269.0     3.10     5.80    99.00    99.00
11  2 10  3    15.0 1   280.0     3.60     5.50    99.00    99.00
11  2 10  4    15.0 1   291.0     3.60     5.00    99.00    99.00
11  2 10  5    15.0 1   286.0     3.10     4.50    99.00    99.00
11  2 10  6    15.0 1   285.0     2.60     4.00    99.00    99.00
11  2 10  7    15.0 1   271.0     3.10     3.60    99.00    99.00
11  2 10  8    15.0 1   269.0     2.60     3.60    99.00    99.00
11  2 10  9    15.0 1   297.0     3.10     5.60    99.00    99.00
11  2 10 10    15.0 1   290.0     2.10     7.50    99.00    99.00
11  2 10 11    15.0 1   281.0     2.60     9.10    99.00    99.00
11  2 10 12    15.0 1   292.0     2.60    10.50    99.00    99.00
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11  2 10 13    15.0 1   304.0     2.60    11.80    99.00    99.00
11  2 10 14    15.0 1   319.0     2.60    12.60    99.00    99.00
11  2 10 15    15.0 1   333.0     2.60    13.10    99.00    99.00
11  2 10 16    15.0 1   345.0     2.60    13.00    99.00    99.00
11  2 10 17    15.0 1   348.0     2.60    12.50    99.00    99.00
11  2 10 18    15.0 1    14.0     2.10    11.50    99.00    99.00
11  2 10 19    15.0 1    10.0     0.50    10.40    99.00    99.00
11  2 10 20    15.0 1     0.0     0.00     9.10    99.00    99.00
11  2 10 21    15.0 1     0.0     0.00     7.90    99.00    99.00
11  2 10 22    15.0 1     0.0     0.00     7.00    99.00    99.00
11  2 10 23    15.0 1     0.0     0.00     6.30    99.00    99.00
11  2 10 24    15.0 1     0.0     0.00     5.60    99.00    99.00
11  2 11  1    15.0 1     0.0     0.00     5.00    99.00    99.00
11  2 11  2    15.0 1     0.0     0.00     4.50    99.00    99.00
11  2 11  3    15.0 1   314.0     0.50     4.10    99.00    99.00
11  2 11  4    15.0 1   302.0     1.00     3.90    99.00    99.00
11  2 11  5    15.0 1   287.0     1.50     3.60    99.00    99.00
11  2 11  6    15.0 1   286.0     2.10     3.40    99.00    99.00
11  2 11  7    15.0 1   293.0     2.10     3.10    99.00    99.00
11  2 11  8    15.0 1   288.0     1.50     3.40    99.00    99.00
11  2 11  9    15.0 1   303.0     1.50     5.90    99.00    99.00
11  2 11 10    15.0 1   295.0     1.50     7.90    99.00    99.00
11  2 11 11    15.0 1   291.0     1.00    10.10    99.00    99.00
11  2 11 12    15.0 1   301.0     1.00    12.10    99.00    99.00
11  2 11 13    15.0 1   318.0     1.50    13.50    99.00    99.00
11  2 11 14    15.0 1   342.0     1.50    14.50    99.00    99.00
11  2 11 15    15.0 1   355.0     2.10    15.00    99.00    99.00
11  2 11 16    15.0 1    15.0     2.60    15.00    99.00    99.00
11  2 11 17    15.0 1    34.0     2.60    14.30    99.00    99.00
11  2 11 18    15.0 1    37.0     2.10    13.10    99.00    99.00
11  2 11 19    15.0 1    31.0     1.00    12.00    99.00    99.00
11  2 11 20    15.0 1     0.0     0.00    10.60    99.00    99.00
11  2 11 21    15.0 1     0.0     0.00     9.40    99.00    99.00
11  2 11 22    15.0 1     0.0     0.00     8.60    99.00    99.00
11  2 11 23    15.0 1    56.0     0.50     7.90    99.00    99.00
11  2 11 24    15.0 1    24.0     0.50     7.40    99.00    99.00
11  2 12  1    15.0 1     9.0     1.00     7.00    99.00    99.00
11  2 12  2    15.0 1     0.0     0.00     6.50    99.00    99.00
11  2 12  3    15.0 1    14.0     1.00     6.10    99.00    99.00
11  2 12  4    15.0 1    11.0     1.00     5.60    99.00    99.00
11  2 12  5    15.0 1   359.0     0.50     5.30    99.00    99.00
11  2 12  6    15.0 1   352.0     0.50     5.00    99.00    99.00
11  2 12  7    15.0 1   353.0     0.50     4.80    99.00    99.00
11  2 12  8    15.0 1    12.0     0.50     4.90    99.00    99.00
11  2 12  9    15.0 1   346.0     1.00     7.10    99.00    99.00
11  2 12 10    15.0 1   332.0     1.50    10.10    99.00    99.00
11  2 12 11    15.0 1   335.0     1.50    12.30    99.00    99.00
11  2 12 12    15.0 1   327.0     2.10    14.00    99.00    99.00
11  2 12 13    15.0 1   338.0     2.10    15.60    99.00    99.00
11  2 12 14    15.0 1   341.0     2.10    17.00    99.00    99.00
11  2 12 15    15.0 1   348.0     2.10    17.60    99.00    99.00
11  2 12 16    15.0 1   344.0     2.10    17.50    99.00    99.00
11  2 12 17    15.0 1   338.0     1.50    16.60    99.00    99.00
11  2 12 18    15.0 1   322.0     1.00    15.30    99.00    99.00
11  2 12 19    15.0 1     0.0     0.00    13.60    99.00    99.00
11  2 12 20    15.0 1     0.0     0.00    12.30    99.00    99.00
11  2 12 21    15.0 1     0.0     0.00    11.00    99.00    99.00
11  2 12 22    15.0 1     0.0     0.00     9.90    99.00    99.00
11  2 12 23    15.0 1    58.0     0.50     9.00    99.00    99.00
11  2 12 24    15.0 1    55.0     0.50     8.10    99.00    99.00
11  2 13  1    15.0 1     0.0     0.00     7.60    99.00    99.00
11  2 13  2    15.0 1     0.0     0.00     7.10    99.00    99.00
11  2 13  3    15.0 1     0.0     0.00     6.60    99.00    99.00
11  2 13  4    15.0 1    97.0     0.50     6.10    99.00    99.00
11  2 13  5    15.0 1     0.0     0.00     5.60    99.00    99.00
11  2 13  6    15.0 1     0.0     0.00     5.30    99.00    99.00
11  2 13  7    15.0 1     0.0     0.00     4.90    99.00    99.00
11  2 13  8    15.0 1     0.0     0.00     5.10    99.00    99.00
11  2 13  9    15.0 1     0.0     0.00     8.60    99.00    99.00
11  2 13 10    15.0 1     0.0     0.00    11.30    99.00    99.00
11  2 13 11    15.0 1     0.0     0.00    13.30    99.00    99.00
11  2 13 12    15.0 1     0.0     0.00    14.80    99.00    99.00
11  2 13 13    15.0 1   309.0     0.50    16.10    99.00    99.00
11  2 13 14    15.0 1   317.0     1.00    16.80    99.00    99.00
11  2 13 15    15.0 1   340.0     1.00    16.90    99.00    99.00
11  2 13 16    15.0 1   339.0     1.00    16.60    99.00    99.00
11  2 13 17    15.0 1   310.0     0.50    15.80    99.00    99.00
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11  2 13 18    15.0 1   255.0     0.50    14.80    99.00    99.00
11  2 13 19    15.0 1   234.0     1.00    13.90    99.00    99.00
11  2 13 20    15.0 1   246.0     2.10    13.50    99.00    99.00
11  2 13 21    15.0 1   279.0     3.10    12.60    99.00    99.00
11  2 13 22    15.0 1   299.0     2.60    11.40    99.00    99.00
11  2 13 23    15.0 1   328.0     2.10    10.50    99.00    99.00
11  2 13 24    15.0 1   346.0     1.50    10.10    99.00    99.00
11  2 14  1    15.0 1   330.0     1.00    10.00    99.00    99.00
11  2 14  2    15.0 1    22.0     1.50     9.40    99.00    99.00
11  2 14  3    15.0 1    36.0     2.60     8.50    99.00    99.00
11  2 14  4    15.0 1    46.0     3.10     8.00    99.00    99.00
11  2 14  5    15.0 1    48.0     3.10     7.90    99.00    99.00
11  2 14  6    15.0 1    55.0     3.10     7.80    99.00    99.00
11  2 14  7    15.0 1    50.0     2.10     7.80    99.00    99.00
11  2 14  8    15.0 1    64.0     1.00     7.90    99.00    99.00
11  2 14  9    15.0 1     0.0     0.00    10.60    99.00    99.00
11  2 14 10    15.0 1     0.0     0.00    12.50    99.00    99.00
11  2 14 11    15.0 1     0.0     0.00    13.60    99.00    99.00
11  2 14 12    15.0 1   234.0     0.50    13.90    99.00    99.00
11  2 14 13    15.0 1   102.0     0.50    14.40    99.00    99.00
11  2 14 14    15.0 1    87.0     1.00    15.30    99.00    99.00
11  2 14 15    15.0 1    85.0     1.50    15.90    99.00    99.00
11  2 14 16    15.0 1    23.0     1.00    16.10    99.00    99.00
11  2 14 17    15.0 1    33.0     1.00    16.00    99.00    99.00
11  2 14 18    15.0 1     0.0     0.00    15.10    99.00    99.00
11  2 14 19    15.0 1     0.0     0.00    14.40    99.00    99.00
11  2 14 20    15.0 1   257.0     0.50    13.80    99.00    99.00
11  2 14 21    15.0 1   261.0     0.50    13.30    99.00    99.00
11  2 14 22    15.0 1   268.0     1.50    12.60    99.00    99.00
11  2 14 23    15.0 1   258.0     1.50    12.10    99.00    99.00
11  2 14 24    15.0 1   273.0     1.50    11.80    99.00    99.00
11  2 15  1    15.0 1    33.0     0.50    11.80    99.00    99.00
11  2 15  2    15.0 1     0.0     0.00    12.10    99.00    99.00
11  2 15  3    15.0 1    72.0     0.50    12.00    99.00    99.00
11  2 15  4    15.0 1   100.0     1.00    11.80    99.00    99.00
11  2 15  5    15.0 1   118.0     1.50    11.50    99.00    99.00
11  2 15  6    15.0 1   137.0     2.10    11.40    99.00    99.00
11  2 15  7    15.0 1   151.0     2.10    11.30    99.00    99.00
11  2 15  8    15.0 1   154.0     2.60    11.10    99.00    99.00
11  2 15  9    15.0 1   146.0     3.10    11.40    99.00    99.00
11  2 15 10    15.0 1   138.0     3.10    11.60    99.00    99.00
11  2 15 11    15.0 1   126.0     3.10    12.10    99.00    99.00
11  2 15 12    15.0 1   125.0     3.10    12.80    99.00    99.00
11  2 15 13    15.0 1   118.0     1.50    13.80    99.00    99.00
11  2 15 14    15.0 1     0.0     0.00    14.80    99.00    99.00
11  2 15 15    15.0 1     8.0     0.50    15.60    99.00    99.00
11  2 15 16    15.0 1     0.0     0.00    15.80    99.00    99.00
11  2 15 17    15.0 1   354.0     2.10    15.30    99.00    99.00
11  2 15 18    15.0 1   316.0     1.50    14.50    99.00    99.00
11  2 15 19    15.0 1   286.0     1.50    14.10    99.00    99.00
11  2 15 20    15.0 1   255.0     1.50    13.30    99.00    99.00
11  2 15 21    15.0 1   221.0     3.10    12.00    99.00    99.00
11  2 15 22    15.0 1   214.0     3.10    11.40    99.00    99.00
11  2 15 23    15.0 1   180.0     2.60    11.10    99.00    99.00
11  2 15 24    15.0 1   154.0     3.10    10.90    99.00    99.00
11  2 16  1    15.0 1   145.0     4.60    10.60    99.00    99.00
11  2 16  2    15.0 1   141.0     4.60    10.00    99.00    99.00
11  2 16  3    15.0 1   152.0     4.60    10.10    99.00    99.00
11  2 16  4    15.0 1   144.0     5.10    10.40    99.00    99.00
11  2 16  5    15.0 1   141.0     5.70    10.40    99.00    99.00
11  2 16  6    15.0 1   139.0     5.10    10.40    99.00    99.00
11  2 16  7    15.0 1   145.0     5.10    10.60    99.00    99.00
11  2 16  8    15.0 1   150.0     4.10    11.10    99.00    99.00
11  2 16  9    15.0 1   228.0     6.20    13.80    99.00    99.00
11  2 16 10    15.0 1   264.0     9.80    15.10    99.00    99.00
11  2 16 11    15.0 1   275.0     8.70    15.60    99.00    99.00
11  2 16 12    15.0 1   272.0     8.70    15.60    99.00    99.00
11  2 16 13    15.0 1   273.0     8.20    15.60    99.00    99.00
11  2 16 14    15.0 1   275.0     8.20    15.40    99.00    99.00
11  2 16 15    15.0 1   256.0     8.70    14.80    99.00    99.00
11  2 16 16    15.0 1   260.0     7.20    13.60    99.00    99.00
11  2 16 17    15.0 1   262.0     4.10    12.40    99.00    99.00
11  2 16 18    15.0 1   259.0     4.10    10.90    99.00    99.00
11  2 16 19    15.0 1   242.0     3.60    10.00    99.00    99.00
11  2 16 20    15.0 1   244.0     3.10     9.10    99.00    99.00
11  2 16 21    15.0 1   234.0     2.60     8.60    99.00    99.00
11  2 16 22    15.0 1   219.0     1.50     8.10    99.00    99.00
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11  2 16 23    15.0 1   211.0     1.00     8.00    99.00    99.00
11  2 16 24    15.0 1   224.0     1.50     7.60    99.00    99.00
11  2 17  1    15.0 1   206.0     1.50     7.40    99.00    99.00
11  2 17  2    15.0 1   162.0     1.50     7.10    99.00    99.00
11  2 17  3    15.0 1   131.0     3.10     7.10    99.00    99.00
11  2 17  4    15.0 1   134.0     3.60     7.40    99.00    99.00
11  2 17  5    15.0 1   131.0     4.10     7.50    99.00    99.00
11  2 17  6    15.0 1   127.0     4.60     7.60    99.00    99.00
11  2 17  7    15.0 1   135.0     5.10     7.80    99.00    99.00
11  2 17  8    15.0 1   131.0     5.10     8.50    99.00    99.00
11  2 17  9    15.0 1   148.0     5.10    10.50    99.00    99.00
11  2 17 10    15.0 1   161.0     4.10    12.10    99.00    99.00
11  2 17 11    15.0 1   165.0     4.10    13.40    99.00    99.00
11  2 17 12    15.0 1   164.0     4.10    14.40    99.00    99.00
11  2 17 13    15.0 1   168.0     4.60    15.30    99.00    99.00
11  2 17 14    15.0 1   184.0     5.10    16.00    99.00    99.00
11  2 17 15    15.0 1   204.0     6.20    16.30    99.00    99.00
11  2 17 16    15.0 1   212.0     4.10    15.60    99.00    99.00
11  2 17 17    15.0 1   209.0     5.10    14.50    99.00    99.00
11  2 17 18    15.0 1   199.0     5.10    13.10    99.00    99.00
11  2 17 19    15.0 1   204.0     5.10    12.30    99.00    99.00
11  2 17 20    15.0 1   168.0     4.10    12.00    99.00    99.00
11  2 17 21    15.0 1   140.0     3.60    11.60    99.00    99.00
11  2 17 22    15.0 1   122.0     3.60    11.40    99.00    99.00
11  2 17 23    15.0 1   113.0     3.60    11.10    99.00    99.00
11  2 17 24    15.0 1    96.0     3.60    11.00    99.00    99.00
11  2 18  1    15.0 1   103.0     3.60    10.60    99.00    99.00
11  2 18  2    15.0 1   103.0     3.60    10.50    99.00    99.00
11  2 18  3    15.0 1   113.0     3.60    10.30    99.00    99.00
11  2 18  4    15.0 1   124.0     3.10    10.10    99.00    99.00
11  2 18  5    15.0 1   117.0     3.10    10.00    99.00    99.00
11  2 18  6    15.0 1   130.0     3.60     9.90    99.00    99.00
11  2 18  7    15.0 1   130.0     3.60     9.80    99.00    99.00
11  2 18  8    15.0 1   124.0     3.60    10.10    99.00    99.00
11  2 18  9    15.0 1   118.0     3.60    11.30    99.00    99.00
11  2 18 10    15.0 1   128.0     4.10    12.50    99.00    99.00
11  2 18 11    15.0 1   139.0     4.10    13.10    99.00    99.00
11  2 18 12    15.0 1   137.0     4.60    13.60    99.00    99.00
11  2 18 13    15.0 1   136.0     5.10    14.10    99.00    99.00
11  2 18 14    15.0 1   137.0     5.10    14.60    99.00    99.00
11  2 18 15    15.0 1   151.0     3.10    14.60    99.00    99.00
11  2 18 16    15.0 1   136.0     3.60    14.40    99.00    99.00
11  2 18 17    15.0 1   129.0     6.20    13.40    99.00    99.00
11  2 18 18    15.0 1   123.0     7.20    12.90    99.00    99.00
11  2 18 19    15.0 1   120.0     7.20    12.60    99.00    99.00
11  2 18 20    15.0 1   124.0     6.70    12.60    99.00    99.00
11  2 18 21    15.0 1   128.0     5.10    12.60    99.00    99.00
11  2 18 22    15.0 1   153.0     4.10    12.90    99.00    99.00
11  2 18 23    15.0 1   172.0     3.60    13.10    99.00    99.00
11  2 18 24    15.0 1   195.0     3.10    13.00    99.00    99.00
11  2 19  1    15.0 1   219.0     3.60    12.40    99.00    99.00
11  2 19  2    15.0 1   249.0     4.60    11.60    99.00    99.00
11  2 19  3    15.0 1   268.0     4.60    10.90    99.00    99.00
11  2 19  4    15.0 1   286.0     3.60    10.50    99.00    99.00
11  2 19  5    15.0 1   289.0     2.10    10.10    99.00    99.00
11  2 19  6    15.0 1   278.0     0.50    10.00    99.00    99.00
11  2 19  7    15.0 1   120.0     0.50     9.90    99.00    99.00
11  2 19  8    15.0 1   107.0     1.50     9.60    99.00    99.00
11  2 19  9    15.0 1   204.0     0.50     9.90    99.00    99.00
11  2 19 10    15.0 1   261.0     2.60    10.10    99.00    99.00
11  2 19 11    15.0 1   310.0     4.10    10.30    99.00    99.00
11  2 19 12    15.0 1   353.0     2.60    11.10    99.00    99.00
11  2 19 13    15.0 1   342.0     2.10    11.60    99.00    99.00
11  2 19 14    15.0 1     2.0     1.00    11.80    99.00    99.00
11  2 19 15    15.0 1   207.0     0.50    12.10    99.00    99.00
11  2 19 16    15.0 1   247.0     2.10    11.90    99.00    99.00
11  2 19 17    15.0 1   154.0     0.50    11.30    99.00    99.00
11  2 19 18    15.0 1   147.0     1.50    10.60    99.00    99.00
11  2 19 19    15.0 1   192.0     2.10    10.00    99.00    99.00
11  2 19 20    15.0 1   220.0     2.10     9.60    99.00    99.00
11  2 19 21    15.0 1   228.0     2.10     9.10    99.00    99.00
11  2 19 22    15.0 1   239.0     2.60     8.80    99.00    99.00
11  2 19 23    15.0 1   247.0     3.10     8.30    99.00    99.00
11  2 19 24    15.0 1   278.0     3.10     7.50    99.00    99.00
11  2 20  1    15.0 1   288.0     3.60     6.60    99.00    99.00
11  2 20  2    15.0 1   313.0     4.10     6.00    99.00    99.00
11  2 20  3    15.0 1   324.0     4.10     5.30    99.00    99.00
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11  2 20  4    15.0 1   321.0     4.10     4.60    99.00    99.00
11  2 20  5    15.0 1   308.0     3.60     3.80    99.00    99.00
11  2 20  6    15.0 1   303.0     3.60     3.00    99.00    99.00
11  2 20  7    15.0 1   302.0     3.60     2.40    99.00    99.00
11  2 20  8    15.0 1   335.0     5.10     3.90    99.00    99.00
11  2 20  9    15.0 1   342.0     5.10     5.50    99.00    99.00
11  2 20 10    15.0 1   337.0     4.10     6.60    99.00    99.00
11  2 20 11    15.0 1   333.0     3.10     7.90    99.00    99.00
11  2 20 12    15.0 1   332.0     2.60     8.90    99.00    99.00
11  2 20 13    15.0 1   318.0     2.10     9.80    99.00    99.00
11  2 20 14    15.0 1   310.0     2.60    10.40    99.00    99.00
11  2 20 15    15.0 1   314.0     2.60    10.80    99.00    99.00
11  2 20 16    15.0 1   316.0     2.60    10.80    99.00    99.00
11  2 20 17    15.0 1   328.0     2.10    10.40    99.00    99.00
11  2 20 18    15.0 1   337.0     2.10     9.60    99.00    99.00
11  2 20 19    15.0 1   355.0     2.10     8.60    99.00    99.00
11  2 20 20    15.0 1    11.0     1.00     7.50    99.00    99.00
11  2 20 21    15.0 1    95.0     0.50     6.30    99.00    99.00
11  2 20 22    15.0 1   136.0     1.50     5.00    99.00    99.00
11  2 20 23    15.0 1   126.0     1.00     4.10    99.00    99.00
11  2 20 24    15.0 1   100.0     1.00     3.60    99.00    99.00
11  2 21  1    15.0 1   110.0     1.00     3.30    99.00    99.00
11  2 21  2    15.0 1     0.0     0.00     3.10    99.00    99.00
11  2 21  3    15.0 1   268.0     0.50     2.80    99.00    99.00
11  2 21  4    15.0 1   298.0     0.50     2.50    99.00    99.00
11  2 21  5    15.0 1     0.0     0.00     2.30    99.00    99.00
11  2 21  6    15.0 1     0.0     0.00     2.10    99.00    99.00
11  2 21  7    15.0 1     0.0     0.00     2.10    99.00    99.00
11  2 21  8    15.0 1     0.0     0.00     2.10    99.00    99.00
11  2 21  9    15.0 1     0.0     0.00     4.60    99.00    99.00
11  2 21 10    15.0 1     0.0     0.00     6.60    99.00    99.00
11  2 21 11    15.0 1     0.0     0.00     8.40    99.00    99.00
11  2 21 12    15.0 1     0.0     0.00     9.50    99.00    99.00
11  2 21 13    15.0 1     0.0     0.00    10.40    99.00    99.00
11  2 21 14    15.0 1   323.0     0.50    10.90    99.00    99.00
11  2 21 15    15.0 1   348.0     1.50    11.00    99.00    99.00
11  2 21 16    15.0 1     0.0     0.00    10.80    99.00    99.00
11  2 21 17    15.0 1     8.0     2.60    10.10    99.00    99.00
11  2 21 18    15.0 1    21.0     2.10     9.50    99.00    99.00
11  2 21 19    15.0 1    32.0     1.00     9.00    99.00    99.00
11  2 21 20    15.0 1     0.0     0.00     8.40    99.00    99.00
11  2 21 21    15.0 1     0.0     0.00     7.60    99.00    99.00
11  2 21 22    15.0 1     0.0     0.00     6.80    99.00    99.00
11  2 21 23    15.0 1     0.0     0.00     5.90    99.00    99.00
11  2 21 24    15.0 1     0.0     0.00     5.10    99.00    99.00
11  2 22  1    15.0 1    76.0     0.50     4.40    99.00    99.00
11  2 22  2    15.0 1    30.0     0.50     3.90    99.00    99.00
11  2 22  3    15.0 1   350.0     0.50     3.90    99.00    99.00
11  2 22  4    15.0 1   336.0     1.50     3.60    99.00    99.00
11  2 22  5    15.0 1   354.0     2.10     3.40    99.00    99.00
11  2 22  6    15.0 1   340.0     2.10     2.90    99.00    99.00
11  2 22  7    15.0 1   335.0     1.50     2.50    99.00    99.00
11  2 22  8    15.0 1   320.0     1.50     3.10    99.00    99.00
11  2 22  9    15.0 1   324.0     1.00     6.50    99.00    99.00
11  2 22 10    15.0 1   327.0     1.50     8.60    99.00    99.00
11  2 22 11    15.0 1   334.0     1.50    10.40    99.00    99.00
11  2 22 12    15.0 1   316.0     1.50    11.60    99.00    99.00
11  2 22 13    15.0 1   319.0     1.50    12.60    99.00    99.00
11  2 22 14    15.0 1   324.0     2.60    13.30    99.00    99.00
11  2 22 15    15.0 1   334.0     3.10    13.50    99.00    99.00
11  2 22 16    15.0 1   342.0     3.10    13.50    99.00    99.00
11  2 22 17    15.0 1   333.0     2.10    13.10    99.00    99.00
11  2 22 18    15.0 1   311.0     1.50    12.10    99.00    99.00
11  2 22 19    15.0 1   288.0     2.10    11.00    99.00    99.00
11  2 22 20    15.0 1   276.0     2.10     9.90    99.00    99.00
11  2 22 21    15.0 1   286.0     2.10     8.90    99.00    99.00
11  2 22 22    15.0 1   309.0     2.60     7.80    99.00    99.00
11  2 22 23    15.0 1   315.0     2.60     6.60    99.00    99.00
11  2 22 24    15.0 1   297.0     2.60     5.60    99.00    99.00
11  2 23  1    15.0 1   296.0     3.10     5.00    99.00    99.00
11  2 23  2    15.0 1   298.0     3.10     4.30    99.00    99.00
11  2 23  3    15.0 1   310.0     2.60     3.60    99.00    99.00
11  2 23  4    15.0 1   299.0     2.60     3.10    99.00    99.00
11  2 23  5    15.0 1   301.0     2.10     2.80    99.00    99.00
11  2 23  6    15.0 1   293.0     1.50     2.40    99.00    99.00
11  2 23  7    15.0 1   295.0     1.50     2.00    99.00    99.00
11  2 23  8    15.0 1   321.0     2.60     3.00    99.00    99.00
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11  2 23  9    15.0 1   342.0     2.10     4.60    99.00    99.00
11  2 23 10    15.0 1   331.0     1.00     6.40    99.00    99.00
11  2 23 11    15.0 1   299.0     0.50     7.90    99.00    99.00
11  2 23 12    15.0 1   296.0     1.00     9.10    99.00    99.00
11  2 23 13    15.0 1   296.0     1.50    10.30    99.00    99.00
11  2 23 14    15.0 1   315.0     2.10    11.10    99.00    99.00
11  2 23 15    15.0 1   316.0     2.60    11.50    99.00    99.00
11  2 23 16    15.0 1   327.0     2.60    11.50    99.00    99.00
11  2 23 17    15.0 1   346.0     2.60    11.10    99.00    99.00
11  2 23 18    15.0 1     6.0     3.10    10.10    99.00    99.00
11  2 23 19    15.0 1    25.0     2.10     9.10    99.00    99.00
11  2 23 20    15.0 1   282.0     0.50     8.00    99.00    99.00
11  2 23 21    15.0 1   242.0     1.00     6.60    99.00    99.00
11  2 23 22    15.0 1   260.0     1.00     5.60    99.00    99.00
11  2 23 23    15.0 1   288.0     1.00     4.80    99.00    99.00
11  2 23 24    15.0 1   313.0     1.00     4.10    99.00    99.00
11  2 24  1    15.0 1   313.0     1.00     3.60    99.00    99.00
11  2 24  2    15.0 1   312.0     1.00     3.40    99.00    99.00
11  2 24  3    15.0 1   312.0     1.00     2.90    99.00    99.00
11  2 24  4    15.0 1   301.0     1.00     2.30    99.00    99.00
11  2 24  5    15.0 1   284.0     1.00     1.80    99.00    99.00
11  2 24  6    15.0 1   237.0     0.50     1.40    99.00    99.00
11  2 24  7    15.0 1   196.0     0.50     1.10    99.00    99.00
11  2 24  8    15.0 1   169.0     0.50     2.10    99.00    99.00
11  2 24  9    15.0 1     0.0     0.00     4.60    99.00    99.00
11  2 24 10    15.0 1     0.0     0.00     6.80    99.00    99.00
11  2 24 11    15.0 1     0.0     0.00     8.40    99.00    99.00
11  2 24 12    15.0 1     0.0     0.00     9.60    99.00    99.00
11  2 24 13    15.0 1     0.0     0.00    10.60    99.00    99.00
11  2 24 14    15.0 1   305.0     0.50    11.10    99.00    99.00
11  2 24 15    15.0 1   345.0     1.00    11.30    99.00    99.00
11  2 24 16    15.0 1    13.0     1.50    10.50    99.00    99.00
11  2 24 17    15.0 1     2.0     1.50    10.10    99.00    99.00
11  2 24 18    15.0 1   354.0     0.50     9.90    99.00    99.00
11  2 24 19    15.0 1     0.0     0.00     9.50    99.00    99.00
11  2 24 20    15.0 1     0.0     0.00     9.10    99.00    99.00
11  2 24 21    15.0 1     0.0     0.00     8.90    99.00    99.00
11  2 24 22    15.0 1     0.0     0.00     8.60    99.00    99.00
11  2 24 23    15.0 1     0.0     0.00     8.60    99.00    99.00
11  2 24 24    15.0 1     0.0     0.00     8.40    99.00    99.00
11  2 25  1    15.0 1   164.0     0.50     8.10    99.00    99.00
11  2 25  2    15.0 1   125.0     1.00     7.60    99.00    99.00
11  2 25  3    15.0 1   128.0     3.10     7.40    99.00    99.00
11  2 25  4    15.0 1   127.0     4.10     7.10    99.00    99.00
11  2 25  5    15.0 1   125.0     5.10     7.10    99.00    99.00
11  2 25  6    15.0 1   133.0     5.10     7.10    99.00    99.00
11  2 25  7    15.0 1   142.0     4.60     7.50    99.00    99.00
11  2 25  8    15.0 1   143.0     4.60     7.90    99.00    99.00
11  2 25  9    15.0 1   152.0     4.60     8.90    99.00    99.00
11  2 25 10    15.0 1   146.0     4.10    10.40    99.00    99.00
11  2 25 11    15.0 1   173.0     3.60    12.30    99.00    99.00
11  2 25 12    15.0 1   216.0     3.60    13.60    99.00    99.00
11  2 25 13    15.0 1   246.0     5.10    14.00    99.00    99.00
11  2 25 14    15.0 1   260.0     4.60    13.90    99.00    99.00
11  2 25 15    15.0 1   265.0     3.60    13.40    99.00    99.00
11  2 25 16    15.0 1   261.0     3.60    12.80    99.00    99.00
11  2 25 17    15.0 1   258.0     3.60    12.00    99.00    99.00
11  2 25 18    15.0 1   261.0     4.10    11.50    99.00    99.00
11  2 25 19    15.0 1   258.0     4.60    10.80    99.00    99.00
11  2 25 20    15.0 1   267.0     4.60    10.10    99.00    99.00
11  2 25 21    15.0 1   290.0     4.10     9.60    99.00    99.00
11  2 25 22    15.0 1   286.0     3.60     8.80    99.00    99.00
11  2 25 23    15.0 1   304.0     3.10     8.10    99.00    99.00
11  2 25 24    15.0 1   324.0     2.60     7.60    99.00    99.00
11  2 26  1    15.0 1   341.0     2.60     7.10    99.00    99.00
11  2 26  2    15.0 1   328.0     1.00     6.50    99.00    99.00
11  2 26  3    15.0 1   260.0     0.50     5.90    99.00    99.00
11  2 26  4    15.0 1   232.0     1.00     5.30    99.00    99.00
11  2 26  5    15.0 1   235.0     1.00     4.60    99.00    99.00
11  2 26  6    15.0 1   220.0     1.50     4.10    99.00    99.00
11  2 26  7    15.0 1   273.0     1.00     3.90    99.00    99.00
11  2 26  8    15.0 1   322.0     3.60     4.30    99.00    99.00
11  2 26  9    15.0 1   329.0     4.10     4.40    99.00    99.00
11  2 26 10    15.0 1   331.0     3.10     4.90    99.00    99.00
11  2 26 11    15.0 1   330.0     3.60     5.60    99.00    99.00
11  2 26 12    15.0 1   340.0     5.10     6.30    99.00    99.00
11  2 26 13    15.0 1   338.0     5.10     6.60    99.00    99.00
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11  2 26 14    15.0 1   341.0     5.10     7.30    99.00    99.00
11  2 26 15    15.0 1   326.0     5.10     7.60    99.00    99.00
11  2 26 16    15.0 1   332.0     4.60     7.90    99.00    99.00
11  2 26 17    15.0 1   307.0     3.10     7.60    99.00    99.00
11  2 26 18    15.0 1   314.0     4.10     6.90    99.00    99.00
11  2 26 19    15.0 1   313.0     5.10     5.60    99.00    99.00
11  2 26 20    15.0 1   314.0     4.60     5.30    99.00    99.00
11  2 26 21    15.0 1   315.0     4.10     5.10    99.00    99.00
11  2 26 22    15.0 1   311.0     3.60     4.60    99.00    99.00
11  2 26 23    15.0 1   305.0     3.60     3.50    99.00    99.00
11  2 26 24    15.0 1   294.0     3.60     2.60    99.00    99.00
11  2 27  1    15.0 1   278.0     2.60     2.10    99.00    99.00
11  2 27  2    15.0 1   257.0     2.60     1.60    99.00    99.00
11  2 27  3    15.0 1   273.0     3.10     1.10    99.00    99.00
11  2 27  4    15.0 1   272.0     3.10     0.60    99.00    99.00
11  2 27  5    15.0 1   275.0     3.10     0.30    99.00    99.00
11  2 27  6    15.0 1   274.0     3.10    -0.10    99.00    99.00
11  2 27  7    15.0 1   263.0     2.60    -0.40    99.00    99.00
11  2 27  8    15.0 1   323.0     1.50     1.10    99.00    99.00
11  2 27  9    15.0 1   355.0     0.50     2.90    99.00    99.00
11  2 27 10    15.0 1     0.0     0.00     4.30    99.00    99.00
11  2 27 11    15.0 1     0.0     0.00     5.80    99.00    99.00
11  2 27 12    15.0 1   299.0     0.50     7.30    99.00    99.00
11  2 27 13    15.0 1   298.0     0.50     8.40    99.00    99.00
11  2 27 14    15.0 1     0.0     0.00     9.10    99.00    99.00
11  2 27 15    15.0 1     0.0     0.00     9.60    99.00    99.00
11  2 27 16    15.0 1   325.0     0.50     9.90    99.00    99.00
11  2 27 17    15.0 1   356.0     1.50     9.80    99.00    99.00
11  2 27 18    15.0 1    21.0     1.50     9.10    99.00    99.00
11  2 27 19    15.0 1    48.0     1.50     7.90    99.00    99.00
11  2 27 20    15.0 1   119.0     1.00     6.60    99.00    99.00
11  2 27 21    15.0 1   166.0     1.50     5.40    99.00    99.00
11  2 27 22    15.0 1   225.0     1.50     4.60    99.00    99.00
11  2 27 23    15.0 1   258.0     0.50     3.80    99.00    99.00
11  2 27 24    15.0 1    67.0     0.50     2.90    99.00    99.00
11  2 28  1    15.0 1   119.0     0.50     2.00    99.00    99.00
11  2 28  2    15.0 1   129.0     1.00     1.40    99.00    99.00
11  2 28  3    15.0 1   116.0     1.00     0.90    99.00    99.00
11  2 28  4    15.0 1   107.0     0.50     0.50    99.00    99.00
11  2 28  5    15.0 1   110.0     0.50     0.10    99.00    99.00
11  2 28  6    15.0 1    99.0     0.50    -0.40    99.00    99.00
11  2 28  7    15.0 1    86.0     0.50    -0.80    99.00    99.00
11  2 28  8    15.0 1     0.0     0.00     0.60    99.00    99.00
11  2 28  9    15.0 1     0.0     0.00     4.60    99.00    99.00
11  2 28 10    15.0 1     0.0     0.00     7.10    99.00    99.00
11  2 28 11    15.0 1     0.0     0.00     9.60    99.00    99.00
11  2 28 12    15.0 1     0.0     0.00    11.30    99.00    99.00
11  2 28 13    15.0 1   310.0     0.50    12.50    99.00    99.00
11  2 28 14    15.0 1   315.0     0.50    13.40    99.00    99.00
11  2 28 15    15.0 1   322.0     1.00    13.80    99.00    99.00
11  2 28 16    15.0 1   339.0     1.00    13.90    99.00    99.00
11  2 28 17    15.0 1     0.0     0.00    13.60    99.00    99.00
11  2 28 18    15.0 1    33.0     2.60    12.50    99.00    99.00
11  2 28 19    15.0 1    37.0     2.10    11.10    99.00    99.00
11  2 28 20    15.0 1    90.0     0.50     9.40    99.00    99.00
11  2 28 21    15.0 1   259.0     2.10     7.90    99.00    99.00
11  2 28 22    15.0 1   295.0     2.60     6.90    99.00    99.00
11  2 28 23    15.0 1   312.0     1.50     6.10    99.00    99.00
11  2 28 24    15.0 1   345.0     0.50     5.40    99.00    99.00
11  3  1  1    15.0 1     0.0     0.00     4.60    99.00    99.00
11  3  1  2    15.0 1    49.0     0.50     3.90    99.00    99.00
11  3  1  3    15.0 1    78.0     1.00     3.10    99.00    99.00
11  3  1  4    15.0 1    87.0     0.50     2.60    99.00    99.00
11  3  1  5    15.0 1     0.0     0.00     2.00    99.00    99.00
11  3  1  6    15.0 1     0.0     0.00     1.60    99.00    99.00
11  3  1  7    15.0 1     0.0     0.00     1.40    99.00    99.00
11  3  1  8    15.0 1     0.0     0.00     1.80    99.00    99.00
11  3  1  9    15.0 1     0.0     0.00     4.80    99.00    99.00
11  3  1 10    15.0 1     0.0     0.00     7.10    99.00    99.00
11  3  1 11    15.0 1     0.0     0.00     9.10    99.00    99.00
11  3  1 12    15.0 1     0.0     0.00    11.10    99.00    99.00
11  3  1 13    15.0 1     0.0     0.00    12.60    99.00    99.00
11  3  1 14    15.0 1     0.0     0.00    14.00    99.00    99.00
11  3  1 15    15.0 1     0.0     0.00    14.60    99.00    99.00
11  3  1 16    15.0 1   285.0     0.50    16.10    99.00    99.00
11  3  1 17    15.0 1   331.0     1.00    15.90    99.00    99.00
11  3  1 18    15.0 1     0.0     0.00    15.00    99.00    99.00
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11  3  1 19    15.0 1     0.0     0.00    13.60    99.00    99.00
11  3  1 20    15.0 1   229.0     0.50    12.10    99.00    99.00
11  3  1 21    15.0 1   259.0     1.50    11.40    99.00    99.00
11  3  1 22    15.0 1   309.0     1.50    10.60    99.00    99.00
11  3  1 23    15.0 1   353.0     1.50    10.40    99.00    99.00
11  3  1 24    15.0 1    20.0     1.50    10.10    99.00    99.00
11  3  2  1    15.0 1    55.0     1.50    10.10    99.00    99.00
11  3  2  2    15.0 1    49.0     1.00    10.00    99.00    99.00
11  3  2  3    15.0 1    59.0     1.00    10.10    99.00    99.00
11  3  2  4    15.0 1     0.0     0.00    10.00    99.00    99.00
11  3  2  5    15.0 1   100.0     0.50     9.60    99.00    99.00
11  3  2  6    15.0 1    85.0     1.50     9.40    99.00    99.00
11  3  2  7    15.0 1    76.0     1.50     9.10    99.00    99.00
11  3  2  8    15.0 1    65.0     1.50     9.10    99.00    99.00
11  3  2  9    15.0 1    53.0     2.60     9.30    99.00    99.00
11  3  2 10    15.0 1    37.0     2.60    10.00    99.00    99.00
11  3  2 11    15.0 1    27.0     2.60    11.10    99.00    99.00
11  3  2 12    15.0 1    38.0     2.10    12.10    99.00    99.00
11  3  2 13    15.0 1    11.0     1.50    14.50    99.00    99.00
11  3  2 14    15.0 1   346.0     1.50    16.00    99.00    99.00
11  3  2 15    15.0 1   336.0     1.50    17.00    99.00    99.00
11  3  2 16    15.0 1   348.0     2.10    17.10    99.00    99.00
11  3  2 17    15.0 1    10.0     2.60    16.80    99.00    99.00
11  3  2 18    15.0 1    16.0     3.10    15.80    99.00    99.00
11  3  2 19    15.0 1    33.0     2.60    14.80    99.00    99.00
11  3  2 20    15.0 1    28.0     0.50    14.10    99.00    99.00
11  3  2 21    15.0 1     0.0     0.00    13.80    99.00    99.00
11  3  2 22    15.0 1     0.0     0.00    13.60    99.00    99.00
11  3  2 23    15.0 1     0.0     0.00    13.50    99.00    99.00
11  3  2 24    15.0 1     9.0     1.00    13.00    99.00    99.00
11  3  3  1    15.0 1     9.0     1.50    12.50    99.00    99.00
11  3  3  2    15.0 1     0.0     0.00    12.00    99.00    99.00
11  3  3  3    15.0 1   359.0     1.50    11.40    99.00    99.00
11  3  3  4    15.0 1   343.0     1.50     9.80    99.00    99.00
11  3  3  5    15.0 1   305.0     3.10     9.10    99.00    99.00
11  3  3  6    15.0 1   314.0     3.10     9.30    99.00    99.00
11  3  3  7    15.0 1   319.0     2.10     9.40    99.00    99.00
11  3  3  8    15.0 1   338.0     1.50     9.10    99.00    99.00
11  3  3  9    15.0 1     0.0     0.00     9.10    99.00    99.00
11  3  3 10    15.0 1     0.0     0.00     9.90    99.00    99.00
11  3  3 11    15.0 1   307.0     0.50    11.00    99.00    99.00
11  3  3 12    15.0 1   355.0     0.50    12.60    99.00    99.00
11  3  3 13    15.0 1   346.0     1.00    14.50    99.00    99.00
11  3  3 14    15.0 1   336.0     1.50    15.80    99.00    99.00
11  3  3 15    15.0 1   343.0     2.10    16.50    99.00    99.00
11  3  3 16    15.0 1   353.0     2.60    16.60    99.00    99.00
11  3  3 17    15.0 1     2.0     3.10    16.10    99.00    99.00
11  3  3 18    15.0 1     9.0     3.60    14.80    99.00    99.00
11  3  3 19    15.0 1    23.0     3.10    13.60    99.00    99.00
11  3  3 20    15.0 1    36.0     1.50    12.90    99.00    99.00
11  3  3 21    15.0 1   122.0     0.50    12.10    99.00    99.00
11  3  3 22    15.0 1   148.0     0.50    11.30    99.00    99.00
11  3  3 23    15.0 1   121.0     0.50    10.60    99.00    99.00
11  3  3 24    15.0 1   105.0     0.50     9.90    99.00    99.00
11  3  4  1    15.0 1   100.0     0.50     9.30    99.00    99.00
11  3  4  2    15.0 1   125.0     0.50     8.80    99.00    99.00
11  3  4  3    15.0 1   183.0     0.50     8.10    99.00    99.00
11  3  4  4    15.0 1   316.0     0.50     6.60    99.00    99.00
11  3  4  5    15.0 1   328.0     0.50     6.10    99.00    99.00
11  3  4  6    15.0 1   356.0     0.50     6.10    99.00    99.00
11  3  4  7    15.0 1     0.0     0.00     6.00    99.00    99.00
11  3  4  8    15.0 1     0.0     0.00     6.60    99.00    99.00
11  3  4  9    15.0 1     0.0     0.00     7.60    99.00    99.00
11  3  4 10    15.0 1     0.0     0.00    10.30    99.00    99.00
11  3  4 11    15.0 1   310.0     1.00    13.40    99.00    99.00
11  3  4 12    15.0 1   316.0     1.50    15.30    99.00    99.00
11  3  4 13    15.0 1   333.0     2.10    16.60    99.00    99.00
11  3  4 14    15.0 1   338.0     2.60    17.50    99.00    99.00
11  3  4 15    15.0 1   353.0     3.10    17.90    99.00    99.00
11  3  4 16    15.0 1     0.0     0.00    18.00    99.00    99.00
11  3  4 17    15.0 1    24.0     3.10    17.40    99.00    99.00
11  3  4 18    15.0 1    34.0     3.60    16.60    99.00    99.00
11  3  4 19    15.0 1    43.0     2.10    15.60    99.00    99.00
11  3  4 20    15.0 1     0.0     0.00    14.30    99.00    99.00
11  3  4 21    15.0 1   229.0     1.00    13.00    99.00    99.00
11  3  4 22    15.0 1   250.0     1.00    12.00    99.00    99.00
11  3  4 23    15.0 1   279.0     0.50    11.50    99.00    99.00
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11   3   4 24     15.0 1    17.0      0.50     10.60     99.00     99.00
11   3   5  1     15.0 1    80.0      0.50      9.90     99.00     99.00
11   3   5  2     15.0 1    80.0      0.50      9.10     99.00     99.00
11   3   5  3     15.0 1     0.0      0.00      8.60     99.00     99.00
11   3   5  4     15.0 1     0.0      0.00      8.10     99.00     99.00
11   3   5  5     15.0 1     0.0      0.00      7.80     99.00     99.00
11   3   5  6     15.0 1   297.0      0.50      7.50     99.00     99.00
11   3   5  7     15.0 1     0.0      0.00      7.30     99.00     99.00
11   3   5  8     15.0 1     0.0      0.00      8.80     99.00     99.00
11   3   5  9     15.0 1     0.0      0.00     11.40     99.00     99.00
11   3   5 10     15.0 1     0.0      0.00     13.60     99.00     99.00
11   3   5 11     15.0 1     0.0      0.00     15.80     99.00     99.00
11   3   5 12     15.0 1   291.0      0.50     17.30     99.00     99.00
11   3   5 13     15.0 1   305.0      1.00     18.40     99.00     99.00
11   3   5 14     15.0 1   314.0      1.00     19.10     99.00     99.00
11   3   5 15     15.0 1   320.0      1.50     19.60     99.00     99.00
11   3   5 16     15.0 1   341.0      1.50     19.80     99.00     99.00
11   3   5 17     15.0 1     0.0      0.00     19.50     99.00     99.00
11   3   5 18     15.0 1    33.0      1.50     18.50     99.00     99.00
11   3   5 19     15.0 1    59.0      1.50     17.30     99.00     99.00
11   3   5 20     15.0 1   114.0      0.50     15.90     99.00     99.00
11   3   5 21     15.0 1   156.0      1.00     14.60     99.00     99.00
11   3   5 22     15.0 1   158.0      1.00     13.90     99.00     99.00
11   3   5 23     15.0 1   174.0      1.00     13.50     99.00     99.00
11   3   5 24     15.0 1   227.0      1.00     13.50     99.00     99.00
11   3   6  1     15.0 1   256.0      1.00     13.60     99.00     99.00
11   3   6  2     15.0 1   280.0      2.10     13.50     99.00     99.00
11   3   6  3     15.0 1   280.0      2.60     13.00     99.00     99.00
11   3   6  4     15.0 1   277.0      2.60     12.60     99.00     99.00
11   3   6  5     15.0 1   270.0      1.50     12.50     99.00     99.00
11   3   6  6     15.0 1     0.0      0.00     12.40     99.00     99.00
11   3   6  7     15.0 1     0.0      0.00     12.10     99.00     99.00
11   3   6  8     15.0 1    95.0      1.00     12.00     99.00     99.00
11   3   6  9     15.0 1   108.0      1.50     12.10     99.00     99.00
11   3   6 10     15.0 1   111.0      1.50     12.40     99.00     99.00
11   3   6 11     15.0 1   108.0      2.60     12.60     99.00     99.00
11   3   6 12     15.0 1   120.0      2.60     13.00     99.00     99.00
11   3   6 13     15.0 1   132.0      2.60     13.30     99.00     99.00
11   3   6 14     15.0 1   127.0      2.60     13.50     99.00     99.00
11   3   6 15     15.0 1   131.0      2.60     13.60     99.00     99.00
11   3   6 16     15.0 1   129.0      3.10     14.60     99.00     99.00
11   3   6 17     15.0 1   141.0      3.10     14.50     99.00     99.00
11   3   6 18     15.0 1   159.0      2.60     14.50     99.00     99.00
11   3   6 19     15.0 1   166.0      2.10     14.50     99.00     99.00
11   3   6 20     15.0 1   195.0      1.50     14.40     99.00     99.00
11   3   6 21     15.0 1   207.0      1.50     14.40     99.00     99.00
11   3   6 22     15.0 1   230.0      2.10     14.30     99.00     99.00
11   3   6 23     15.0 1   262.0      3.60     14.00     99.00     99.00
11   3   6 24     15.0 1   270.0      5.10     13.80     99.00     99.00
11   3   7  1     15.0 1   274.0      5.10     13.60     99.00     99.00
11   3   7  2     15.0 1   282.0      6.20     13.40     99.00     99.00
11   3   7  3     15.0 1   281.0      6.70     13.10     99.00     99.00
11   3   7  4     15.0 1   286.0      6.70     12.60     99.00     99.00
11   3   7  5     15.0 1   287.0      6.70     12.10     99.00     99.00
11   3   7  6     15.0 1   301.0      5.70     11.60     99.00     99.00
11   3   7  7     15.0 1   296.0      5.10     11.30     99.00     99.00
11   3   7  8     15.0 1   321.0      7.70     12.00     99.00     99.00
11   3   7  9     15.0 1   326.0      5.70     12.10     99.00     99.00
11   3   7 10     15.0 1   338.0      7.20     12.40     99.00     99.00
11   3   7 11     15.0 1   336.0      8.70     12.60     99.00     99.00
11   3   7 12     15.0 1   343.0      8.70     13.00     99.00     99.00
11   3   7 13     15.0 1   339.0      8.70     13.90     99.00     99.00
11   3   7 14     15.0 1   332.0      8.70     14.50     99.00     99.00
11   3   7 15     15.0 1   328.0      8.70     14.60     99.00     99.00
11   3   7 16     15.0 1   330.0      8.20     14.50     99.00     99.00
11   3   7 17     15.0 1   332.0      5.10     13.90     99.00     99.00
11   3   7 18     15.0 1   332.0      5.10     12.40     99.00     99.00
11   3   7 19     15.0 1   341.0      5.10     11.30     99.00     99.00
11   3   7 20     15.0 1   339.0      4.60     10.60     99.00     99.00
11   3   7 21     15.0 1   338.0      4.10     10.00     99.00     99.00
11   3   7 22     15.0 1   340.0      3.60      9.40     99.00     99.00
11   3   7 23     15.0 1   335.0      3.10      8.90     99.00     99.00
11   3   7 24     15.0 1   340.0      1.50      8.40     99.00     99.00
11   3   8  1     15.0 1    52.0      0.50      8.00     99.00     99.00
11   3   8  2     15.0 1    98.0      0.50      7.80     99.00     99.00
11   3   8  3     15.0 1    58.0      0.50      7.60     99.00     99.00
11   3   8  4     15.0 1    66.0      0.50      7.10     99.00     99.00
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11  3  8  5    15.0 1   112.0     0.50     6.50    99.00    99.00
11  3  8  6    15.0 1   154.0     0.50     5.90    99.00    99.00
11  3  8  7    15.0 1   158.0     1.00     5.60    99.00    99.00
11  3  8  8    15.0 1   180.0     1.00     7.50    99.00    99.00
11  3  8  9    15.0 1     0.0     0.00     9.40    99.00    99.00
11  3  8 10    15.0 1     0.0     0.00    10.60    99.00    99.00
11  3  8 11    15.0 1     0.0     0.00    12.10    99.00    99.00
11  3  8 12    15.0 1     0.0     0.00    13.40    99.00    99.00
11  3  8 13    15.0 1     0.0     0.00    14.50    99.00    99.00
11  3  8 14    15.0 1   335.0     0.50    15.40    99.00    99.00
11  3  8 15    15.0 1   341.0     1.50    16.00    99.00    99.00
11  3  8 16    15.0 1   352.0     2.10    16.10    99.00    99.00
11  3  8 17    15.0 1     0.0     0.00    16.00    99.00    99.00
11  3  8 18    15.0 1    14.0     1.00    15.40    99.00    99.00
11  3  8 19    15.0 1    44.0     0.50    14.40    99.00    99.00
11  3  8 20    15.0 1     0.0     0.00    13.30    99.00    99.00
11  3  8 21    15.0 1    91.0     0.50    12.10    99.00    99.00
11  3  8 22    15.0 1   126.0     0.50    11.10    99.00    99.00
11  3  8 23    15.0 1   137.0     1.00    10.60    99.00    99.00
11  3  8 24    15.0 1   154.0     1.00    10.50    99.00    99.00
11  3  9  1    15.0 1   119.0     0.50    10.40    99.00    99.00
11  3  9  2    15.0 1    73.0     0.50    10.10    99.00    99.00
11  3  9  3    15.0 1    78.0     0.50     9.50    99.00    99.00
11  3  9  4    15.0 1   102.0     0.50     9.10    99.00    99.00
11  3  9  5    15.0 1     0.0     0.00     8.90    99.00    99.00
11  3  9  6    15.0 1     0.0     0.00     8.90    99.00    99.00
11  3  9  7    15.0 1     0.0     0.00     8.90    99.00    99.00
11  3  9  8    15.0 1     0.0     0.00     9.10    99.00    99.00
11  3  9  9    15.0 1   292.0     0.50    11.40    99.00    99.00
11  3  9 10    15.0 1   296.0     1.00    12.80    99.00    99.00
11  3  9 11    15.0 1   305.0     0.50    14.30    99.00    99.00
11  3  9 12    15.0 1   316.0     1.00    15.50    99.00    99.00
11  3  9 13    15.0 1   332.0     1.00    16.40    99.00    99.00
11  3  9 14    15.0 1   344.0     1.00    17.10    99.00    99.00
11  3  9 15    15.0 1   350.0     1.50    17.60    99.00    99.00
11  3  9 16    15.0 1     0.0     0.00    17.60    99.00    99.00
11  3  9 17    15.0 1    15.0     2.10    17.10    99.00    99.00
11  3  9 18    15.0 1     5.0     1.00    16.40    99.00    99.00
11  3  9 19    15.0 1   276.0     0.50    15.60    99.00    99.00
11  3  9 20    15.0 1   246.0     1.00    14.80    99.00    99.00
11  3  9 21    15.0 1     0.0     0.00    14.10    99.00    99.00
11  3  9 22    15.0 1     0.0     0.00    13.60    99.00    99.00
11  3  9 23    15.0 1     0.0     0.00    13.10    99.00    99.00
11  3  9 24    15.0 1    18.0     0.50    12.80    99.00    99.00
11  3 10  1    15.0 1    39.0     0.50    12.40    99.00    99.00
11  3 10  2    15.0 1     0.0     0.00    11.90    99.00    99.00
11  3 10  3    15.0 1     0.0     0.00    11.30    99.00    99.00
11  3 10  4    15.0 1     0.0     0.00    10.60    99.00    99.00
11  3 10  5    15.0 1     0.0     0.00    10.10    99.00    99.00
11  3 10  6    15.0 1     0.0     0.00     9.60    99.00    99.00
11  3 10  7    15.0 1    19.0     0.50     9.40    99.00    99.00
11  3 10  8    15.0 1   347.0     0.50    10.10    99.00    99.00
11  3 10  9    15.0 1   335.0     1.50    13.40    99.00    99.00
11  3 10 10    15.0 1   330.0     1.00    15.50    99.00    99.00
11  3 10 11    15.0 1   322.0     1.50    17.60    99.00    99.00
11  3 10 12    15.0 1   335.0     1.50    18.60    99.00    99.00
11  3 10 13    15.0 1   339.0     2.10    19.30    99.00    99.00
11  3 10 14    15.0 1   346.0     2.10    19.80    99.00    99.00
11  3 10 15    15.0 1   350.0     2.10    20.30    99.00    99.00
11  3 10 16    15.0 1   348.0     3.10    20.50    99.00    99.00
11  3 10 17    15.0 1   358.0     3.10    20.00    99.00    99.00
11  3 10 18    15.0 1    14.0     3.60    18.90    99.00    99.00
11  3 10 19    15.0 1    16.0     2.60    17.80    99.00    99.00
11  3 10 20    15.0 1    29.0     0.50    16.80    99.00    99.00
11  3 10 21    15.0 1   236.0     1.50    15.60    99.00    99.00
11  3 10 22    15.0 1   267.0     3.10    14.60    99.00    99.00
11  3 10 23    15.0 1   308.0     4.60    13.60    99.00    99.00
11  3 10 24    15.0 1   329.0     4.60    12.40    99.00    99.00
11  3 11  1    15.0 1   332.0     4.10    11.60    99.00    99.00
11  3 11  2    15.0 1   321.0     3.60    11.10    99.00    99.00
11  3 11  3    15.0 1   320.0     2.60    10.60    99.00    99.00
11  3 11  4    15.0 1   334.0     1.50    10.00    99.00    99.00
11  3 11  5    15.0 1   345.0     1.00    10.30    99.00    99.00
11  3 11  6    15.0 1   332.0     1.00    10.50    99.00    99.00
11  3 11  7    15.0 1   307.0     1.00    10.60    99.00    99.00
11  3 11  8    15.0 1   302.0     1.50    10.60    99.00    99.00
11  3 11  9    15.0 1   298.0     1.50    10.80    99.00    99.00
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11   3 11 10     15.0 1   304.0      2.10     11.10     99.00     99.00
11   3 11 11     15.0 1   298.0      2.10     11.50     99.00     99.00
11   3 11 12     15.0 1   303.0      2.10     11.90     99.00     99.00
11   3 11 13     15.0 1   327.0      1.00     12.90     99.00     99.00
11   3 11 14     15.0 1    27.0      0.50     14.50     99.00     99.00
11   3 11 15     15.0 1    55.0      1.50     15.40     99.00     99.00
11   3 11 16     15.0 1    34.0      2.60     15.80     99.00     99.00
11   3 11 17     15.0 1    39.0      3.10     15.50     99.00     99.00
11   3 11 18     15.0 1    46.0      3.10     14.60     99.00     99.00
11   3 11 19     15.0 1    65.0      2.60     13.60     99.00     99.00
11   3 11 20     15.0 1    97.0      1.00     12.80     99.00     99.00
11   3 11 21     15.0 1   200.0      1.00     12.00     99.00     99.00
11   3 11 22     15.0 1   245.0      1.50     11.40     99.00     99.00
11   3 11 23     15.0 1   261.0      2.10     10.60     99.00     99.00
11   3 11 24     15.0 1   293.0      3.10      9.80     99.00     99.00
11   3 12  1     15.0 1   310.0      3.60      9.00     99.00     99.00
11   3 12  2     15.0 1   317.0      3.60      8.50     99.00     99.00
11   3 12  3     15.0 1   330.0      3.10      8.40     99.00     99.00
11   3 12  4     15.0 1   320.0      2.60      8.40     99.00     99.00
11   3 12  5     15.0 1   319.0      1.50      8.10     99.00     99.00
11   3 12  6     15.0 1   301.0      0.50      7.60     99.00     99.00
11   3 12  7     15.0 1     0.0      0.00      7.10     99.00     99.00
11   3 12  8     15.0 1     0.0      0.00      8.50     99.00     99.00
11   3 12  9     15.0 1     0.0      0.00     10.00     99.00     99.00
11   3 12 10     15.0 1     0.0      0.00     11.40     99.00     99.00
11   3 12 11     15.0 1     0.0      0.00     12.80     99.00     99.00
11   3 12 12     15.0 1     0.0      0.00     14.10     99.00     99.00
11   3 12 13     15.0 1     0.0      0.00     15.30     99.00     99.00
11   3 12 14     15.0 1   299.0      0.50     16.10     99.00     99.00
11   3 12 15     15.0 1   320.0      1.50     16.80     99.00     99.00
11   3 12 16     15.0 1   343.0      2.10     16.90     99.00     99.00
11   3 12 17     15.0 1     2.0      2.60     16.60     99.00     99.00
11   3 12 18     15.0 1    25.0      2.10     16.00     99.00     99.00
11   3 12 19     15.0 1    74.0      0.50     15.10     99.00     99.00
11   3 12 20     15.0 1   131.0      0.50     14.10     99.00     99.00
11   3 12 21     15.0 1   127.0      1.00     13.10     99.00     99.00
11   3 12 22     15.0 1   117.0      2.10     12.10     99.00     99.00
11   3 12 23     15.0 1   127.0      2.60     11.10     99.00     99.00
11   3 12 24     15.0 1   140.0      2.60     10.60     99.00     99.00
11   3 13  1     15.0 1   136.0      2.10     10.30     99.00     99.00
11   3 13  2     15.0 1   139.0      1.50      9.80     99.00     99.00
11   3 13  3     15.0 1   137.0      1.50      9.30     99.00     99.00
11   3 13  4     15.0 1   138.0      1.50      8.90     99.00     99.00
11   3 13  5     15.0 1   149.0      1.50      8.60     99.00     99.00
11   3 13  6     15.0 1   152.0      1.50      8.30     99.00     99.00
11   3 13  7     15.0 1   137.0      1.50      8.10     99.00     99.00
11   3 13  8     15.0 1   143.0      1.00      8.90     99.00     99.00
11   3 13  9     15.0 1   168.0      0.50     11.00     99.00     99.00
11   3 13 10     15.0 1     0.0      0.00     12.60     99.00     99.00
11   3 13 11     15.0 1     0.0      0.00     14.40     99.00     99.00
11   3 13 12     15.0 1     0.0      0.00     15.50     99.00     99.00
11   3 13 13     15.0 1     0.0      0.00     16.30     99.00     99.00
11   3 13 14     15.0 1     0.0      0.00     17.10     99.00     99.00
11   3 13 15     15.0 1     0.0      0.00     17.90     99.00     99.00
11   3 13 16     15.0 1    48.0      0.50     18.40     99.00     99.00
11   3 13 17     15.0 1    58.0      1.50     18.40     99.00     99.00
11   3 13 18     15.0 1    72.0      1.50     17.60     99.00     99.00
11   3 13 19     15.0 1   152.0      0.50     16.60     99.00     99.00
11   3 13 20     15.0 1   222.0      1.00     15.40     99.00     99.00
11   3 13 21     15.0 1   235.0      1.00     14.50     99.00     99.00
11   3 13 22     15.0 1   265.0      1.50     14.00     99.00     99.00
11   3 13 23     15.0 1   283.0      2.60     13.40     99.00     99.00
11   3 13 24     15.0 1   289.0      2.10     12.90     99.00     99.00
11   3 14  1     15.0 1   290.0      1.00     12.60     99.00     99.00
11   3 14  2     15.0 1   222.0      0.50     12.60     99.00     99.00
11   3 14  3     15.0 1   244.0      0.50     12.60     99.00     99.00
11   3 14  4     15.0 1   195.0      0.50     12.40     99.00     99.00
11   3 14  5     15.0 1   171.0      1.00     11.90     99.00     99.00
11   3 14  6     15.0 1   175.0      1.00     11.40     99.00     99.00
11   3 14  7     15.0 1   166.0      1.50     11.00     99.00     99.00
11   3 14  8     15.0 1   201.0      1.00     11.80     99.00     99.00
11   3 14  9     15.0 1   214.0      0.50     14.50     99.00     99.00
11   3 14 10     15.0 1     0.0      0.00     16.30     99.00     99.00
11   3 14 11     15.0 1     0.0      0.00     18.00     99.00     99.00
11   3 14 12     15.0 1     0.0      0.00     19.40     99.00     99.00
11   3 14 13     15.0 1     0.0      0.00     20.50     99.00     99.00
11   3 14 14     15.0 1   282.0      0.50     21.30     99.00     99.00
```

```
11  3 14 15    15.0 1   292.0     1.00    21.60    99.00    99.00
11  3 14 16    15.0 1   330.0     1.50    21.60    99.00    99.00
11  3 14 17    15.0 1     0.0     0.00    21.40    99.00    99.00
11  3 14 18    15.0 1    11.0     3.10    20.40    99.00    99.00
11  3 14 19    15.0 1    21.0     2.60    19.40    99.00    99.00
11  3 14 20    15.0 1    20.0     1.00    18.50    99.00    99.00
11  3 14 21    15.0 1     0.0     0.00    17.60    99.00    99.00
11  3 14 22    15.0 1   260.0     1.00    16.80    99.00    99.00
11  3 14 23    15.0 1   267.0     1.50    16.10    99.00    99.00
11  3 14 24    15.0 1   270.0     1.50    15.50    99.00    99.00
11  3 15  1    15.0 1   292.0     2.10    15.00    99.00    99.00
11  3 15  2    15.0 1   315.0     2.60    14.50    99.00    99.00
11  3 15  3    15.0 1   328.0     2.60    14.10    99.00    99.00
11  3 15  4    15.0 1   328.0     1.50    13.60    99.00    99.00
11  3 15  5    15.0 1     0.0     0.00    13.30    99.00    99.00
11  3 15  6    15.0 1    36.0     0.50    13.00    99.00    99.00
11  3 15  7    15.0 1     0.0     0.00    12.60    99.00    99.00
11  3 15  8    15.0 1    46.0     0.50    13.30    99.00    99.00
11  3 15  9    15.0 1     0.0     0.00    15.30    99.00    99.00
11  3 15 10    15.0 1     0.0     0.00    17.10    99.00    99.00
11  3 15 11    15.0 1     0.0     0.00    18.60    99.00    99.00
11  3 15 12    15.0 1     0.0     0.00    20.10    99.00    99.00
11  3 15 13    15.0 1     0.0     0.00    21.50    99.00    99.00
11  3 15 14    15.0 1   282.0     0.50    22.30    99.00    99.00
11  3 15 15    15.0 1     0.0     0.00    22.80    99.00    99.00
11  3 15 16    15.0 1    30.0     1.00    22.90    99.00    99.00
11  3 15 17    15.0 1    15.0     1.00    22.60    99.00    99.00
11  3 15 18    15.0 1   351.0     1.00    21.80    99.00    99.00
11  3 15 19    15.0 1   314.0     1.00    20.60    99.00    99.00
11  3 15 20    15.0 1   268.0     3.10    19.60    99.00    99.00
11  3 15 21    15.0 1   276.0     5.10    17.40    99.00    99.00
11  3 15 22    15.0 1   276.0     5.10    16.00    99.00    99.00
11  3 15 23    15.0 1   284.0     3.60    15.60    99.00    99.00
11  3 15 24    15.0 1   278.0     3.10    15.40    99.00    99.00
11  3 16  1    15.0 1   281.0     2.10    15.40    99.00    99.00
11  3 16  2    15.0 1   272.0     1.00    15.30    99.00    99.00
11  3 16  3    15.0 1   281.0     1.00    15.30    99.00    99.00
11  3 16  4    15.0 1   281.0     1.50    15.40    99.00    99.00
11  3 16  5    15.0 1   288.0     2.60    15.30    99.00    99.00
11  3 16  6    15.0 1   301.0     3.10    15.10    99.00    99.00
11  3 16  7    15.0 1   307.0     3.10    15.00    99.00    99.00
11  3 16  8    15.0 1   310.0     3.10    15.10    99.00    99.00
11  3 16  9    15.0 1   311.0     4.60    16.10    99.00    99.00
11  3 16 10    15.0 1   322.0     5.70    16.60    99.00    99.00
11  3 16 11    15.0 1   333.0     6.20    17.00    99.00    99.00
11  3 16 12    15.0 1   340.0     6.70    17.40    99.00    99.00
11  3 16 13    15.0 1   336.0     6.70    17.50    99.00    99.00
11  3 16 14    15.0 1   337.0     6.70    17.50    99.00    99.00
11  3 16 15    15.0 1   344.0     6.70    17.40    99.00    99.00
11  3 16 16    15.0 1   336.0     4.10    17.00    99.00    99.00
11  3 16 17    15.0 1   328.0     3.60    16.50    99.00    99.00
11  3 16 18    15.0 1   331.0     3.60    15.60    99.00    99.00
11  3 16 19    15.0 1   336.0     3.60    14.60    99.00    99.00
11  3 16 20    15.0 1   346.0     3.10    14.00    99.00    99.00
11  3 16 21    15.0 1   338.0     3.10    13.40    99.00    99.00
11  3 16 22    15.0 1   341.0     2.60    13.00    99.00    99.00
11  3 16 23    15.0 1   326.0     1.50    12.60    99.00    99.00
11  3 16 24    15.0 1   316.0     1.50    12.10    99.00    99.00
11  3 17  1    15.0 1   317.0     2.10    11.60    99.00    99.00
11  3 17  2    15.0 1   330.0     2.60    10.80    99.00    99.00
11  3 17  3    15.0 1   327.0     2.60    10.00    99.00    99.00
11  3 17  4    15.0 1   324.0     2.60     9.30    99.00    99.00
11  3 17  5    15.0 1   322.0     2.60     8.80    99.00    99.00
11  3 17  6    15.0 1   307.0     2.10     8.30    99.00    99.00
11  3 17  7    15.0 1   286.0     2.10     7.90    99.00    99.00
11  3 17  8    15.0 1   339.0     2.60     9.00    99.00    99.00
11  3 17  9    15.0 1   329.0     1.00    10.50    99.00    99.00
11  3 17 10    15.0 1     0.0     0.00    12.00    99.00    99.00
11  3 17 11    15.0 1   294.0     0.50    13.50    99.00    99.00
11  3 17 12    15.0 1   286.0     0.50    14.90    99.00    99.00
11  3 17 13    15.0 1   288.0     1.00    15.90    99.00    99.00
11  3 17 14    15.0 1   305.0     1.00    16.60    99.00    99.00
11  3 17 15    15.0 1   301.0     1.50    17.10    99.00    99.00
11  3 17 16    15.0 1   332.0     1.50    17.30    99.00    99.00
11  3 17 17    15.0 1     0.0     0.00    17.00    99.00    99.00
11  3 17 18    15.0 1    18.0     2.60    16.30    99.00    99.00
11  3 17 19    15.0 1    28.0     2.10    15.00    99.00    99.00
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11   3 17 20     15.0 1   280.0      0.50     13.60     99.00     99.00
11   3 17 21     15.0 1   257.0      4.10     11.80     99.00     99.00
11   3 17 22     15.0 1   271.0      4.60      9.90     99.00     99.00
11   3 17 23     15.0 1   278.0      4.10      9.10     99.00     99.00
11   3 17 24     15.0 1   288.0      3.10      8.50     99.00     99.00
11   3 18  1     15.0 1   317.0      2.10      8.10     99.00     99.00
11   3 18  2     15.0 1    12.0      1.00      7.60     99.00     99.00
11   3 18  3     15.0 1    85.0      0.50      7.30     99.00     99.00
11   3 18  4     15.0 1     0.0      0.00      7.00     99.00     99.00
11   3 18  5     15.0 1     0.0      0.00      6.60     99.00     99.00
11   3 18  6     15.0 1   204.0      0.50      6.10     99.00     99.00
11   3 18  7     15.0 1   163.0      0.50      5.50     99.00     99.00
11   3 18  8     15.0 1     0.0      0.00      7.10     99.00     99.00
11   3 18  9     15.0 1     0.0      0.00      9.30     99.00     99.00
11   3 18 10     15.0 1     0.0      0.00     10.90     99.00     99.00
11   3 18 11     15.0 1     0.0      0.00     12.50     99.00     99.00
11   3 18 12     15.0 1     0.0      0.00     13.60     99.00     99.00
11   3 18 13     15.0 1     0.0      0.00     14.80     99.00     99.00
11   3 18 14     15.0 1    11.0      0.50     15.60     99.00     99.00
11   3 18 15     15.0 1   355.0      1.00     16.10     99.00     99.00
11   3 18 16     15.0 1   294.0      2.10     16.40     99.00     99.00
11   3 18 17     15.0 1   280.0      2.60     15.90     99.00     99.00
11   3 18 18     15.0 1   257.0      2.10     15.10     99.00     99.00
11   3 18 19     15.0 1   243.0      2.10     14.30     99.00     99.00
11   3 18 20     15.0 1   227.0      2.60     13.30     99.00     99.00
11   3 18 21     15.0 1   209.0      3.10     12.30     99.00     99.00
11   3 18 22     15.0 1   202.0      3.10     11.40     99.00     99.00
11   3 18 23     15.0 1   214.0      3.10     10.60     99.00     99.00
11   3 18 24     15.0 1   208.0      2.60     10.00     99.00     99.00
11   3 19  1     15.0 1   215.0      1.50      9.60     99.00     99.00
11   3 19  2     15.0 1   152.0      0.50      9.30     99.00     99.00
11   3 19  3     15.0 1    87.0      1.00      9.10     99.00     99.00
11   3 19  4     15.0 1    93.0      0.50      9.30     99.00     99.00
11   3 19  5     15.0 1     0.0      0.00      9.60     99.00     99.00
11   3 19  6     15.0 1     0.0      0.00      9.80     99.00     99.00
11   3 19  7     15.0 1   172.0      0.50      9.80     99.00     99.00
11   3 19  8     15.0 1   115.0      1.50     10.00     99.00     99.00
11   3 19  9     15.0 1   157.0      1.50     11.50     99.00     99.00
11   3 19 10     15.0 1   132.0      2.10     12.30     99.00     99.00
11   3 19 11     15.0 1   112.0      4.10     12.50     99.00     99.00
11   3 19 12     15.0 1   129.0      4.60     12.40     99.00     99.00
11   3 19 13     15.0 1   154.0      5.10     12.40     99.00     99.00
11   3 19 14     15.0 1   160.0      5.10     12.80     99.00     99.00
11   3 19 15     15.0 1   158.0      4.60     13.10     99.00     99.00
11   3 19 16     15.0 1   153.0      3.60     13.10     99.00     99.00
11   3 19 17     15.0 1   122.0      3.60     13.00     99.00     99.00
11   3 19 18     15.0 1   111.0      5.10     12.50     99.00     99.00
11   3 19 19     15.0 1   114.0      6.20     12.00     99.00     99.00
11   3 19 20     15.0 1   113.0      5.70     12.10     99.00     99.00
11   3 19 21     15.0 1   118.0      5.70     12.10     99.00     99.00
11   3 19 22     15.0 1   121.0      6.20     12.40     99.00     99.00
11   3 19 23     15.0 1   131.0      6.20     12.50     99.00     99.00
11   3 19 24     15.0 1   128.0      6.20     12.50     99.00     99.00
11   3 20  1     15.0 1   134.0      6.20     12.60     99.00     99.00
11   3 20  2     15.0 1   138.0      6.20     12.60     99.00     99.00
11   3 20  3     15.0 1   142.0      6.20     12.60     99.00     99.00
11   3 20  4     15.0 1   141.0      6.20     12.60     99.00     99.00
11   3 20  5     15.0 1   143.0      5.70     12.60     99.00     99.00
11   3 20  6     15.0 1   137.0      5.70     12.80     99.00     99.00
11   3 20  7     15.0 1   145.0      5.10     12.80     99.00     99.00
11   3 20  8     15.0 1   142.0      5.10     13.10     99.00     99.00
11   3 20  9     15.0 1   136.0      4.10     14.00     99.00     99.00
11   3 20 10     15.0 1   144.0      3.60     15.50     99.00     99.00
11   3 20 11     15.0 1   198.0      5.70     16.90     99.00     99.00
11   3 20 12     15.0 1   206.0      8.20     17.30     99.00     99.00
11   3 20 13     15.0 1   207.0      8.70     17.10     99.00     99.00
11   3 20 14     15.0 1   224.0      7.70     17.00     99.00     99.00
11   3 20 15     15.0 1   219.0      5.70     16.60     99.00     99.00
11   3 20 16     15.0 1   216.0      4.60     16.30     99.00     99.00
11   3 20 17     15.0 1   208.0      3.60     15.60     99.00     99.00
11   3 20 18     15.0 1   199.0      2.60     15.10     99.00     99.00
11   3 20 19     15.0 1   236.0      2.10     14.40     99.00     99.00
11   3 20 20     15.0 1   269.0      2.10     13.60     99.00     99.00
11   3 20 21     15.0 1   261.0      1.50     13.10     99.00     99.00
11   3 20 22     15.0 1   228.0      2.10     12.40     99.00     99.00
11   3 20 23     15.0 1   216.0      3.10     11.50     99.00     99.00
11   3 20 24     15.0 1   233.0      3.60     10.80     99.00     99.00
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11   3 21   1     15.0 1   253.0      3.60     10.30     99.00     99.00
11   3 21   2     15.0 1   278.0      5.10      9.80     99.00     99.00
11   3 21   3     15.0 1   277.0      3.10      9.40     99.00     99.00
11   3 21   4     15.0 1   139.0      1.50      9.50     99.00     99.00
11   3 21   5     15.0 1   127.0      3.10      9.40     99.00     99.00
11   3 21   6     15.0 1   146.0      3.60      9.10     99.00     99.00
11   3 21   7     15.0 1   159.0      3.10      9.10     99.00     99.00
11   3 21   8     15.0 1   246.0      3.10     10.10     99.00     99.00
11   3 21   9     15.0 1   290.0      4.60     11.60     99.00     99.00
11   3 21  10     15.0 1   294.0      4.10     12.60     99.00     99.00
11   3 21  11     15.0 1   306.0      3.10     13.40     99.00     99.00
11   3 21  12     15.0 1   316.0      2.60     14.10     99.00     99.00
11   3 21  13     15.0 1   304.0      2.60     14.50     99.00     99.00
11   3 21  14     15.0 1   289.0      2.60     14.60     99.00     99.00
11   3 21  15     15.0 1   276.0      3.10     15.00     99.00     99.00
11   3 21  16     15.0 1   286.0      4.60     14.60     99.00     99.00
11   3 21  17     15.0 1   278.0      3.60     14.00     99.00     99.00
11   3 21  18     15.0 1   282.0      4.10     12.90     99.00     99.00
11   3 21  19     15.0 1   266.0      6.20     11.30     99.00     99.00
11   3 21  20     15.0 1   269.0      7.20      9.50     99.00     99.00
11   3 21  21     15.0 1   275.0      5.70      8.60     99.00     99.00
11   3 21  22     15.0 1   282.0      4.60      8.00     99.00     99.00
11   3 21  23     15.0 1   281.0      3.60      7.60     99.00     99.00
11   3 21  24     15.0 1   282.0      2.60      7.80     99.00     99.00
11   3 22   1     15.0 1   242.0      1.00      7.90     99.00     99.00
11   3 22   2     15.0 1   175.0      1.50      7.90     99.00     99.00
11   3 22   3     15.0 1   163.0      1.50      7.80     99.00     99.00
11   3 22   4     15.0 1   175.0      1.50      7.60     99.00     99.00
11   3 22   5     15.0 1   179.0      1.00      7.60     99.00     99.00
11   3 22   6     15.0 1   193.0      0.50      7.50     99.00     99.00
11   3 22   7     15.0 1   196.0      0.50      7.30     99.00     99.00
11   3 22   8     15.0 1   236.0      1.00      7.80     99.00     99.00
11   3 22   9     15.0 1   175.0      0.50      9.10     99.00     99.00
11   3 22  10     15.0 1   156.0      0.50     10.60     99.00     99.00
11   3 22  11     15.0 1   151.0      0.50     11.60     99.00     99.00
11   3 22  12     15.0 1     0.0      0.00     12.90     99.00     99.00
11   3 22  13     15.0 1     0.0      0.00     13.90     99.00     99.00
11   3 22  14     15.0 1     0.0      0.00     14.60     99.00     99.00
11   3 22  15     15.0 1     0.0      0.00     15.30     99.00     99.00
11   3 22  16     15.0 1   130.0      0.50     15.60     99.00     99.00
11   3 22  17     15.0 1   148.0      1.00     15.60     99.00     99.00
11   3 22  18     15.0 1   184.0      0.50     15.30     99.00     99.00
11   3 22  19     15.0 1   248.0      1.50     14.50     99.00     99.00
11   3 22  20     15.0 1   257.0      3.10     13.60     99.00     99.00
11   3 22  21     15.0 1   243.0      2.10     12.50     99.00     99.00
11   3 22  22     15.0 1   170.0      1.50     11.60     99.00     99.00
11   3 22  23     15.0 1   139.0      2.10     11.10     99.00     99.00
11   3 22  24     15.0 1   143.0      3.10     10.60     99.00     99.00
11   3 23   1     15.0 1   141.0      2.60     10.10     99.00     99.00
11   3 23   2     15.0 1   145.0      3.10      9.50     99.00     99.00
11   3 23   3     15.0 1   136.0      3.60      9.10     99.00     99.00
11   3 23   4     15.0 1   128.0      4.10      9.10     99.00     99.00
11   3 23   5     15.0 1   126.0      4.10      9.10     99.00     99.00
11   3 23   6     15.0 1   126.0      4.60      9.10     99.00     99.00
11   3 23   7     15.0 1   130.0      4.60      9.30     99.00     99.00
11   3 23   8     15.0 1   142.0      4.10     10.00     99.00     99.00
11   3 23   9     15.0 1   144.0      4.60     11.90     99.00     99.00
11   3 23  10     15.0 1   153.0      4.60     14.60     99.00     99.00
11   3 23  11     15.0 1   185.0      4.10     16.30     99.00     99.00
11   3 23  12     15.0 1   190.0      3.60     17.00     99.00     99.00
11   3 23  13     15.0 1   218.0      4.10     17.50     99.00     99.00
11   3 23  14     15.0 1   238.0      7.20     17.60     99.00     99.00
11   3 23  15     15.0 1   242.0      9.80     17.30     99.00     99.00
11   3 23  16     15.0 1   237.0      9.30     16.40     99.00     99.00
11   3 23  17     15.0 1   237.0      5.10     15.50     99.00     99.00
11   3 23  18     15.0 1   245.0      5.10     13.90     99.00     99.00
11   3 23  19     15.0 1   236.0      4.60     12.90     99.00     99.00
11   3 23  20     15.0 1   232.0      3.60     12.30     99.00     99.00
11   3 23  21     15.0 1   223.0      3.60     11.60     99.00     99.00
11   3 23  22     15.0 1   228.0      4.10     11.00     99.00     99.00
11   3 23  23     15.0 1   243.0      4.10     10.60     99.00     99.00
11   3 23  24     15.0 1   245.0      3.60     10.40     99.00     99.00
11   3 24   1     15.0 1   237.0      3.10     10.00     99.00     99.00
11   3 24   2     15.0 1   227.0      2.10      9.50     99.00     99.00
11   3 24   3     15.0 1   206.0      1.50      8.90     99.00     99.00
11   3 24   4     15.0 1   155.0      1.00      8.50     99.00     99.00
11   3 24   5     15.0 1   132.0      1.50      8.30     99.00     99.00
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11  3 24  6    15.0 1   138.0     2.60     8.30    99.00    99.00
11  3 24  7    15.0 1   127.0     3.10     8.50    99.00    99.00
11  3 24  8    15.0 1   189.0     3.10    10.50    99.00    99.00
11  3 24  9    15.0 1   204.0     3.60    12.30    99.00    99.00
11  3 24 10    15.0 1   186.0     3.60    13.80    99.00    99.00
11  3 24 11    15.0 1   195.0     4.10    15.10    99.00    99.00
11  3 24 12    15.0 1   193.0     5.10    16.00    99.00    99.00
11  3 24 13    15.0 1   203.0     5.10    16.60    99.00    99.00
11  3 24 14    15.0 1   217.0     5.70    16.60    99.00    99.00
11  3 24 15    15.0 1   235.0     6.20    16.60    99.00    99.00
11  3 24 16    15.0 1   232.0     4.60    16.30    99.00    99.00
11  3 24 17    15.0 1   226.0     4.10    15.60    99.00    99.00
11  3 24 18    15.0 1   202.0     4.10    14.80    99.00    99.00
11  3 24 19    15.0 1   195.0     4.60    13.50    99.00    99.00
11  3 24 20    15.0 1   194.0     4.60    12.50    99.00    99.00
11  3 24 21    15.0 1   186.0     4.10    12.10    99.00    99.00
11  3 24 22    15.0 1   194.0     3.10    12.00    99.00    99.00
11  3 24 23    15.0 1   212.0     1.00    12.00    99.00    99.00
11  3 24 24    15.0 1   288.0     1.50    11.60    99.00    99.00
11  3 25  1    15.0 1   296.0     2.60    11.10    99.00    99.00
11  3 25  2    15.0 1   319.0     2.60    10.50    99.00    99.00
11  3 25  3    15.0 1   332.0     1.00     9.90    99.00    99.00
11  3 25  4    15.0 1     0.0     0.00     9.30    99.00    99.00
11  3 25  5    15.0 1     0.0     0.00     8.90    99.00    99.00
11  3 25  6    15.0 1   246.0     0.50     8.60    99.00    99.00
11  3 25  7    15.0 1   219.0     0.50     8.30    99.00    99.00
11  3 25  8    15.0 1   268.0     1.00    10.10    99.00    99.00
11  3 25  9    15.0 1   280.0     1.00    11.80    99.00    99.00
11  3 25 10    15.0 1   285.0     0.50    13.10    99.00    99.00
11  3 25 11    15.0 1   282.0     0.50    14.30    99.00    99.00
11  3 25 12    15.0 1     0.0     0.00    15.30    99.00    99.00
11  3 25 13    15.0 1   275.0     0.50    16.00    99.00    99.00
11  3 25 14    15.0 1   266.0     0.50    16.60    99.00    99.00
11  3 25 15    15.0 1   274.0     0.50    17.00    99.00    99.00
11  3 25 16    15.0 1   285.0     0.50    17.10    99.00    99.00
11  3 25 17    15.0 1   293.0     1.00    17.10    99.00    99.00
11  3 25 18    15.0 1   287.0     0.50    16.60    99.00    99.00
11  3 25 19    15.0 1   275.0     1.00    15.60    99.00    99.00
11  3 25 20    15.0 1   272.0     5.10    13.60    99.00    99.00
11  3 25 21    15.0 1   279.0     4.10    11.40    99.00    99.00
11  3 25 22    15.0 1   282.0     2.60    10.60    99.00    99.00
11  3 25 23    15.0 1   284.0     2.10    10.40    99.00    99.00
11  3 25 24    15.0 1   307.0     1.00    10.10    99.00    99.00
11  3 26  1    15.0 1    58.0     1.00    10.10    99.00    99.00
11  3 26  2    15.0 1    93.0     2.10    10.00    99.00    99.00
11  3 26  3    15.0 1   110.0     2.60    10.00    99.00    99.00
11  3 26  4    15.0 1   116.0     2.60     9.90    99.00    99.00
11  3 26  5    15.0 1   128.0     3.10     9.60    99.00    99.00
11  3 26  6    15.0 1   127.0     3.60     9.50    99.00    99.00
11  3 26  7    15.0 1   134.0     4.60     9.50    99.00    99.00
11  3 26  8    15.0 1   149.0     3.60    10.10    99.00    99.00
11  3 26  9    15.0 1   174.0     2.10    11.10    99.00    99.00
11  3 26 10    15.0 1   208.0     0.50    12.50    99.00    99.00
11  3 26 11    15.0 1     0.0     0.00    13.50    99.00    99.00
11  3 26 12    15.0 1     0.0     0.00    14.30    99.00    99.00
11  3 26 13    15.0 1     0.0     0.00    14.80    99.00    99.00
11  3 26 14    15.0 1     0.0     0.00    15.10    99.00    99.00
11  3 26 15    15.0 1   345.0     0.50    15.60    99.00    99.00
11  3 26 16    15.0 1    32.0     1.50    15.50    99.00    99.00
11  3 26 17    15.0 1    32.0     2.60    15.30    99.00    99.00
11  3 26 18    15.0 1    32.0     2.60    14.80    99.00    99.00
11  3 26 19    15.0 1    18.0     2.10    14.40    99.00    99.00
11  3 26 20    15.0 1   351.0     1.50    14.10    99.00    99.00
11  3 26 21    15.0 1   319.0     1.50    13.80    99.00    99.00
11  3 26 22    15.0 1   312.0     1.00    13.50    99.00    99.00
11  3 26 23    15.0 1   337.0     0.50    13.10    99.00    99.00
11  3 26 24    15.0 1   327.0     1.00    12.50    99.00    99.00
11  3 27  1    15.0 1   328.0     0.50    12.00    99.00    99.00
11  3 27  2    15.0 1   175.0     0.50    11.60    99.00    99.00
11  3 27  3    15.0 1   164.0     1.00    11.50    99.00    99.00
11  3 27  4    15.0 1   158.0     1.50    11.40    99.00    99.00
11  3 27  5    15.0 1   161.0     1.00    11.40    99.00    99.00
11  3 27  6    15.0 1   200.0     1.00    11.30    99.00    99.00
11  3 27  7    15.0 1   242.0     1.00    11.10    99.00    99.00
11  3 27  8    15.0 1   284.0     1.50    11.10    99.00    99.00
11  3 27  9    15.0 1   304.0     1.50    11.80    99.00    99.00
11  3 27 10    15.0 1   293.0     2.10    13.00    99.00    99.00
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11   3 27 11     15.0 1   308.0      2.10     13.90     99.00     99.00
11   3 27 12     15.0 1   321.0      1.50     15.10     99.00     99.00
11   3 27 13     15.0 1   332.0      1.00     16.30     99.00     99.00
11   3 27 14     15.0 1   330.0      1.50     17.10     99.00     99.00
11   3 27 15     15.0 1   351.0      2.10     17.80     99.00     99.00
11   3 27 16     15.0 1   351.0      3.10     18.10     99.00     99.00
11   3 27 17     15.0 1     4.0      3.60     18.00     99.00     99.00
11   3 27 18     15.0 1    13.0      3.10     17.40     99.00     99.00
11   3 27 19     15.0 1     8.0      3.60     16.40     99.00     99.00
11   3 27 20     15.0 1    15.0      2.60     15.60     99.00     99.00
11   3 27 21     15.0 1   290.0      1.50     15.00     99.00     99.00
11   3 27 22     15.0 1   285.0      3.10     13.90     99.00     99.00
11   3 27 23     15.0 1   303.0      3.60     12.60     99.00     99.00
11   3 27 24     15.0 1   324.0      4.10     11.50     99.00     99.00
11   3 28  1     15.0 1   330.0      3.60     10.80     99.00     99.00
11   3 28  2     15.0 1   341.0      2.60     10.40     99.00     99.00
11   3 28  3     15.0 1   355.0      1.50     10.10     99.00     99.00
11   3 28  4     15.0 1   341.0      1.00      9.80     99.00     99.00
11   3 28  5     15.0 1   310.0      1.00      9.50     99.00     99.00
11   3 28  6     15.0 1   302.0      1.00      9.10     99.00     99.00
11   3 28  7     15.0 1   291.0      1.50      9.10     99.00     99.00
11   3 28  8     15.0 1   335.0      2.10     10.40     99.00     99.00
11   3 28  9     15.0 1   331.0      1.50     11.50     99.00     99.00
11   3 28 10     15.0 1   314.0      1.50     12.50     99.00     99.00
11   3 28 11     15.0 1   306.0      2.10     13.10     99.00     99.00
11   3 28 12     15.0 1   313.0      2.60     13.60     99.00     99.00
11   3 28 13     15.0 1   314.0      2.60     14.60     99.00     99.00
11   3 28 14     15.0 1   312.0      2.60     15.60     99.00     99.00
11   3 28 15     15.0 1   322.0      2.10     16.40     99.00     99.00
11   3 28 16     15.0 1   343.0      1.50     16.60     99.00     99.00
11   3 28 17     15.0 1    88.0      1.00     16.40     99.00     99.00
11   3 28 18     15.0 1   139.0      3.60     15.10     99.00     99.00
11   3 28 19     15.0 1   155.0      4.10     13.50     99.00     99.00
11   3 28 20     15.0 1   157.0      3.60     12.40     99.00     99.00
11   3 28 21     15.0 1   163.0      3.60     11.60     99.00     99.00
11   3 28 22     15.0 1   149.0      3.60     11.10     99.00     99.00
11   3 28 23     15.0 1   146.0      3.10     10.80     99.00     99.00
11   3 28 24     15.0 1   162.0      2.60     10.50     99.00     99.00
11   3 29  1     15.0 1   169.0      2.10     10.10     99.00     99.00
11   3 29  2     15.0 1   194.0      1.00      9.90     99.00     99.00
11   3 29  3     15.0 1   236.0      1.00      9.40     99.00     99.00
11   3 29  4     15.0 1   277.0      1.50      9.00     99.00     99.00
11   3 29  5     15.0 1   291.0      1.50      8.60     99.00     99.00
11   3 29  6     15.0 1   298.0      1.50      8.10     99.00     99.00
11   3 29  7     15.0 1   276.0      1.50      8.10     99.00     99.00
11   3 29  8     15.0 1   327.0      1.00     10.10     99.00     99.00
11   3 29  9     15.0 1   300.0      0.50     12.10     99.00     99.00
11   3 29 10     15.0 1     0.0      0.00     13.60     99.00     99.00
11   3 29 11     15.0 1   281.0      0.50     15.50     99.00     99.00
11   3 29 12     15.0 1   294.0      1.00     17.00     99.00     99.00
11   3 29 13     15.0 1   309.0      2.10     18.30     99.00     99.00
11   3 29 14     15.0 1   326.0      3.10     19.50     99.00     99.00
11   3 29 15     15.0 1   337.0      4.10     20.10     99.00     99.00
11   3 29 16     15.0 1   348.0      4.60     20.30     99.00     99.00
11   3 29 17     15.0 1   352.0      2.60     20.10     99.00     99.00
11   3 29 18     15.0 1   327.0      1.50     19.60     99.00     99.00
11   3 29 19     15.0 1   297.0      1.50     18.50     99.00     99.00
11   3 29 20     15.0 1   279.0      1.50     17.40     99.00     99.00
11   3 29 21     15.0 1   266.0      1.00     16.40     99.00     99.00
11   3 29 22     15.0 1   305.0      0.50     15.60     99.00     99.00
11   3 29 23     15.0 1   265.0      0.50     14.60     99.00     99.00
11   3 29 24     15.0 1   241.0      1.00     13.60     99.00     99.00
11   3 30  1     15.0 1   255.0      1.50     13.10     99.00     99.00
11   3 30  2     15.0 1   249.0      1.50     12.60     99.00     99.00
11   3 30  3     15.0 1   250.0      1.50     12.30     99.00     99.00
11   3 30  4     15.0 1   261.0      2.10     12.10     99.00     99.00
11   3 30  5     15.0 1   276.0      1.50     11.80     99.00     99.00
11   3 30  6     15.0 1   305.0      1.00     11.40     99.00     99.00
11   3 30  7     15.0 1     0.0      0.00     11.10     99.00     99.00
11   3 30  8     15.0 1     9.0      0.50     13.30     99.00     99.00
11   3 30  9     15.0 1   207.0      0.50     15.10     99.00     99.00
11   3 30 10     15.0 1   250.0      0.50     16.60     99.00     99.00
11   3 30 11     15.0 1   271.0      1.50     18.40     99.00     99.00
11   3 30 12     15.0 1   292.0      2.10     20.10     99.00     99.00
11   3 30 13     15.0 1   314.0      2.10     21.60     99.00     99.00
11   3 30 14     15.0 1   319.0      2.10     22.60     99.00     99.00
11   3 30 15     15.0 1   333.0      1.50     23.40     99.00     99.00
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11   3 30 16     15.0 1   335.0      1.50     23.80     99.00     99.00
11   3 30 17     15.0 1   338.0      1.00     23.80     99.00     99.00
11   3 30 18     15.0 1     0.0      0.00     23.30     99.00     99.00
11   3 30 19     15.0 1     0.0      0.00     21.90     99.00     99.00
11   3 30 20     15.0 1     0.0      0.00     20.50     99.00     99.00
11   3 30 21     15.0 1   175.0      0.50     19.30     99.00     99.00
11   3 30 22     15.0 1   174.0      0.50     18.10     99.00     99.00
11   3 30 23     15.0 1   147.0      1.50     17.40     99.00     99.00
11   3 30 24     15.0 1   131.0      1.50     16.60     99.00     99.00
11   3 31  1     15.0 1   116.0      1.00     16.10     99.00     99.00
11   3 31  2     15.0 1   123.0      0.50     15.40     99.00     99.00
11   3 31  3     15.0 1   254.0      0.50     14.80     99.00     99.00
11   3 31  4     15.0 1   262.0      2.10     14.50     99.00     99.00
11   3 31  5     15.0 1   257.0      2.60     14.10     99.00     99.00
11   3 31  6     15.0 1   256.0      3.10     13.90     99.00     99.00
11   3 31  7     15.0 1   273.0      3.10     14.00     99.00     99.00
11   3 31  8     15.0 1   298.0      2.60     16.10     99.00     99.00
11   3 31  9     15.0 1   283.0      1.00     18.30     99.00     99.00
11   3 31 10     15.0 1   265.0      0.50     20.60     99.00     99.00
11   3 31 11     15.0 1   271.0      1.00     23.00     99.00     99.00
11   3 31 12     15.0 1   291.0      1.50     24.50     99.00     99.00
11   3 31 13     15.0 1   298.0      1.00     25.80     99.00     99.00
11   3 31 14     15.0 1   332.0      1.00     26.80     99.00     99.00
11   3 31 15     15.0 1     5.0      1.50     27.40     99.00     99.00
11   3 31 16     15.0 1    25.0      2.60     28.30     99.00     99.00
11   3 31 17     15.0 1    34.0      2.60     27.90     99.00     99.00
11   3 31 18     15.0 1    47.0      2.60     27.10     99.00     99.00
11   3 31 19     15.0 1    81.0      1.00     25.80     99.00     99.00
11   3 31 20     15.0 1   223.0      0.50     24.10     99.00     99.00
11   3 31 21     15.0 1   251.0      1.50     22.60     99.00     99.00
11   3 31 22     15.0 1   266.0      2.10     21.80     99.00     99.00
11   3 31 23     15.0 1   336.0      1.50     20.90     99.00     99.00
11   3 31 24     15.0 1    34.0      2.60     19.80     99.00     99.00
11   4  1  1     15.0 1    29.0      3.10     19.10     99.00     99.00
11   4  1  2     15.0 1     0.0      0.00     18.60     99.00     99.00
11   4  1  3     15.0 1   294.0      1.50     18.10     99.00     99.00
11   4  1  4     15.0 1   271.0      2.60     17.50     99.00     99.00
11   4  1  5     15.0 1   279.0      3.60     17.00     99.00     99.00
11   4  1  6     15.0 1   292.0      3.10     16.60     99.00     99.00
11   4  1  7     15.0 1   293.0      2.10     16.50     99.00     99.00
11   4  1  8     15.0 1   322.0      2.10     18.30     99.00     99.00
11   4  1  9     15.0 1   306.0      0.50     20.10     99.00     99.00
11   4  1 10     15.0 1     0.0      0.00     22.40     99.00     99.00
11   4  1 11     15.0 1   295.0      0.50     24.30     99.00     99.00
11   4  1 12     15.0 1   307.0      0.50     25.80     99.00     99.00
11   4  1 13     15.0 1   308.0      0.50     27.10     99.00     99.00
11   4  1 14     15.0 1   321.0      1.00     28.40     99.00     99.00
11   4  1 15     15.0 1   338.0      1.50     29.00     99.00     99.00
11   4  1 16     15.0 1   354.0      2.60     29.10     99.00     99.00
11   4  1 17     15.0 1   358.0      2.60     28.50     99.00     99.00
11   4  1 18     15.0 1   352.0      2.10     27.60     99.00     99.00
11   4  1 19     15.0 1   305.0      1.50     26.30     99.00     99.00
11   4  1 20     15.0 1   260.0      3.60     25.40     99.00     99.00
11   4  1 21     15.0 1   272.0      5.10     22.30     99.00     99.00
11   4  1 22     15.0 1   275.0      4.10     20.50     99.00     99.00
11   4  1 23     15.0 1   268.0      3.60     19.60     99.00     99.00
11   4  1 24     15.0 1   285.0      2.60     19.10     99.00     99.00
11   4  2  1     15.0 1   304.0      1.50     18.60     99.00     99.00
11   4  2  2     15.0 1   285.0      1.00     18.40     99.00     99.00
11   4  2  3     15.0 1   259.0      1.50     18.10     99.00     99.00
11   4  2  4     15.0 1   277.0      2.10     17.60     99.00     99.00
11   4  2  5     15.0 1   304.0      1.50     17.40     99.00     99.00
11   4  2  6     15.0 1   322.0      0.50     17.10     99.00     99.00
11   4  2  7     15.0 1   327.0      1.00     17.10     99.00     99.00
11   4  2  8     15.0 1   330.0      2.10     17.10     99.00     99.00
11   4  2  9     15.0 1   309.0      2.60     17.90     99.00     99.00
11   4  2 10     15.0 1   311.0      0.50     18.90     99.00     99.00
11   4  2 11     15.0 1     0.0      0.00     20.00     99.00     99.00
11   4  2 12     15.0 1     0.0      0.00     21.10     99.00     99.00
11   4  2 13     15.0 1   329.0      0.50     22.00     99.00     99.00
11   4  2 14     15.0 1    17.0      1.00     22.60     99.00     99.00
11   4  2 15     15.0 1    20.0      1.50     23.00     99.00     99.00
11   4  2 16     15.0 1    19.0      2.10     23.10     99.00     99.00
11   4  2 17     15.0 1    10.0      2.60     22.80     99.00     99.00
11   4  2 18     15.0 1   355.0      3.60     21.90     99.00     99.00
11   4  2 19     15.0 1   314.0      4.10     20.40     99.00     99.00
11   4  2 20     15.0 1   276.0      5.10     18.90     99.00     99.00
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11   4   2 21     15.0 1   269.0     4.60    17.40    99.00    99.00
11   4   2 22     15.0 1   269.0     4.60    16.60    99.00    99.00
11   4   2 23     15.0 1   268.0     4.10    16.90    99.00    99.00
11   4   2 24     15.0 1   286.0     4.10    16.60    99.00    99.00
11   4   3  1     15.0 1   320.0     4.60    15.60    99.00    99.00
11   4   3  2     15.0 1   322.0     4.60    14.60    99.00    99.00
11   4   3  3     15.0 1   316.0     4.10    13.50    99.00    99.00
11   4   3  4     15.0 1   306.0     4.10    12.50    99.00    99.00
11   4   3  5     15.0 1   308.0     3.60    11.60    99.00    99.00
11   4   3  6     15.0 1   315.0     2.60    11.10    99.00    99.00
11   4   3  7     15.0 1   330.0     3.60    11.60    99.00    99.00
11   4   3  8     15.0 1   354.0     4.10    13.10    99.00    99.00
11   4   3  9     15.0 1   343.0     3.10    14.10    99.00    99.00
11   4   3 10     15.0 1   333.0     2.10    15.40    99.00    99.00
11   4   3 11     15.0 1   308.0     2.10    16.60    99.00    99.00
11   4   3 12     15.0 1   314.0     2.60    18.10    99.00    99.00
11   4   3 13     15.0 1   312.0     2.10    19.10    99.00    99.00
11   4   3 14     15.0 1   327.0     2.10    19.80    99.00    99.00
11   4   3 15     15.0 1   345.0     2.10    20.10    99.00    99.00
11   4   3 16     15.0 1   353.0     2.10    20.30    99.00    99.00
11   4   3 17     15.0 1   343.0     2.60    20.10    99.00    99.00
11   4   3 18     15.0 1   326.0     2.10    19.60    99.00    99.00
11   4   3 19     15.0 1   319.0     1.50    18.80    99.00    99.00
11   4   3 20     15.0 1   317.0     1.50    17.60    99.00    99.00
11   4   3 21     15.0 1   331.0     1.00    16.50    99.00    99.00
11   4   3 22     15.0 1     0.0     0.00    15.40    99.00    99.00
11   4   3 23     15.0 1   158.0     0.50    14.30    99.00    99.00
11   4   3 24     15.0 1   243.0     0.50    13.50    99.00    99.00
11   4   4  1     15.0 1   283.0     1.50    13.10    99.00    99.00
11   4   4  2     15.0 1   292.0     2.60    12.50    99.00    99.00
11   4   4  3     15.0 1   292.0     2.60    11.80    99.00    99.00
11   4   4  4     15.0 1   300.0     3.10    11.10    99.00    99.00
11   4   4  5     15.0 1   298.0     2.60    10.50    99.00    99.00
11   4   4  6     15.0 1   297.0     2.10    10.00    99.00    99.00
11   4   4  7     15.0 1   311.0     2.60    10.10    99.00    99.00
11   4   4  8     15.0 1   324.0     2.60    11.90    99.00    99.00
11   4   4  9     15.0 1   296.0     1.50    13.90    99.00    99.00
11   4   4 10     15.0 1   288.0     1.50    16.30    99.00    99.00
11   4   4 11     15.0 1   296.0     1.00    18.10    99.00    99.00
11   4   4 12     15.0 1   305.0     0.50    20.10    99.00    99.00
11   4   4 13     15.0 1   318.0     0.50    21.80    99.00    99.00
11   4   4 14     15.0 1   332.0     1.00    23.00    99.00    99.00
11   4   4 15     15.0 1   348.0     1.50    23.60    99.00    99.00
11   4   4 16     15.0 1     6.0     2.60    23.80    99.00    99.00
11   4   4 17     15.0 1    24.0     3.10    23.10    99.00    99.00
11   4   4 18     15.0 1    26.0     4.10    21.90    99.00    99.00
11   4   4 19     15.0 1    36.0     4.10    20.60    99.00    99.00
11   4   4 20     15.0 1    45.0     2.60    19.50    99.00    99.00
11   4   4 21     15.0 1    31.0     0.50    18.50    99.00    99.00
11   4   4 22     15.0 1   264.0     0.50    17.10    99.00    99.00
11   4   4 23     15.0 1   290.0     1.00    16.00    99.00    99.00
11   4   4 24     15.0 1   304.0     1.50    15.00    99.00    99.00
11   4   5  1     15.0 1   325.0     1.00    14.10    99.00    99.00
11   4   5  2     15.0 1     0.0     0.00    13.60    99.00    99.00
11   4   5  3     15.0 1    42.0     0.50    13.00    99.00    99.00
11   4   5  4     15.0 1     0.0     0.00    12.50    99.00    99.00
11   4   5  5     15.0 1     0.0     0.00    12.10    99.00    99.00
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11   4   5  7     15.0 1     0.0     0.00    11.90    99.00    99.00
11   4   5  8     15.0 1     0.0     0.00    13.50    99.00    99.00
11   4   5  9     15.0 1     0.0     0.00    17.00    99.00    99.00
11   4   5 10     15.0 1     0.0     0.00    19.40    99.00    99.00
11   4   5 11     15.0 1   325.0     0.50    21.40    99.00    99.00
11   4   5 12     15.0 1   322.0     1.00    22.80    99.00    99.00
11   4   5 13     15.0 1   333.0     1.50    24.00    99.00    99.00
11   4   5 14     15.0 1   345.0     2.60    24.60    99.00    99.00
11   4   5 15     15.0 1   346.0     4.10    24.80    99.00    99.00
11   4   5 16     15.0 1   340.0     6.20    24.50    99.00    99.00
11   4   5 17     15.0 1   342.0     4.60    23.10    99.00    99.00
11   4   5 18     15.0 1   329.0     5.10    21.50    99.00    99.00
11   4   5 19     15.0 1   332.0     5.70    18.60    99.00    99.00
11   4   5 20     15.0 1   334.0     5.10    16.80    99.00    99.00
11   4   5 21     15.0 1   324.0     4.10    15.90    99.00    99.00
11   4   5 22     15.0 1   309.0     3.10    15.40    99.00    99.00
11   4   5 23     15.0 1   281.0     3.10    15.00    99.00    99.00
11   4   5 24     15.0 1   254.0     2.60    14.80    99.00    99.00
11   4   6  1     15.0 1   216.0     2.60    14.80    99.00    99.00
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11  4  6  2    15.0 1   212.0     2.10    14.90    99.00    99.00
11  4  6  3    15.0 1   251.0     1.00    15.00    99.00    99.00
11  4  6  4    15.0 1   314.0     1.00    14.90    99.00    99.00
11  4  6  5    15.0 1   311.0     1.50    14.60    99.00    99.00
11  4  6  6    15.0 1   317.0     3.10    14.10    99.00    99.00
11  4  6  7    15.0 1   325.0     3.10    13.40    99.00    99.00
11  4  6  8    15.0 1   341.0     4.10    13.10    99.00    99.00
11  4  6  9    15.0 1   338.0     3.10    14.00    99.00    99.00
11  4  6 10    15.0 1   331.0     2.10    15.30    99.00    99.00
11  4  6 11    15.0 1   325.0     1.50    17.10    99.00    99.00
11  4  6 12    15.0 1   324.0     2.10    18.60    99.00    99.00
11  4  6 13    15.0 1   318.0     2.60    19.60    99.00    99.00
11  4  6 14    15.0 1   334.0     3.60    20.40    99.00    99.00
11  4  6 15    15.0 1   334.0     4.10    20.90    99.00    99.00
11  4  6 16    15.0 1   342.0     5.10    21.00    99.00    99.00
11  4  6 17    15.0 1   339.0     3.60    20.40    99.00    99.00
11  4  6 18    15.0 1   329.0     4.10    19.10    99.00    99.00
11  4  6 19    15.0 1   324.0     4.60    16.90    99.00    99.00
11  4  6 20    15.0 1   328.0     4.60    15.10    99.00    99.00
11  4  6 21    15.0 1   330.0     5.10    13.90    99.00    99.00
11  4  6 22    15.0 1   322.0     5.10    12.60    99.00    99.00
11  4  6 23    15.0 1   323.0     4.60    11.40    99.00    99.00
11  4  6 24    15.0 1   316.0     4.10    10.50    99.00    99.00
11  4  7  1    15.0 1   323.0     3.10     9.60    99.00    99.00
11  4  7  2    15.0 1   313.0     2.60     9.10    99.00    99.00
11  4  7  3    15.0 1   283.0     1.50     8.60    99.00    99.00
11  4  7  4    15.0 1   274.0     2.10     8.30    99.00    99.00
11  4  7  5    15.0 1   247.0     2.10     8.00    99.00    99.00
11  4  7  6    15.0 1   240.0     2.10     7.90    99.00    99.00
11  4  7  7    15.0 1   260.0     2.10     8.40    99.00    99.00
11  4  7  8    15.0 1   294.0     2.10     9.80    99.00    99.00
11  4  7  9    15.0 1   288.0     2.10    10.60    99.00    99.00
11  4  7 10    15.0 1   288.0     1.50    11.80    99.00    99.00
11  4  7 11    15.0 1   279.0     2.10    13.10    99.00    99.00
11  4  7 12    15.0 1   287.0     4.10    13.10    99.00    99.00
11  4  7 13    15.0 1   276.0     3.60    13.90    99.00    99.00
11  4  7 14    15.0 1   287.0     5.10    13.80    99.00    99.00
11  4  7 15    15.0 1   281.0     7.70    14.00    99.00    99.00
11  4  7 16    15.0 1   276.0     8.70    13.60    99.00    99.00
11  4  7 17    15.0 1   269.0     7.70    13.10    99.00    99.00
11  4  7 18    15.0 1   263.0     6.20    11.80    99.00    99.00
11  4  7 19    15.0 1   260.0     6.20    10.10    99.00    99.00
11  4  7 20    15.0 1   264.0     5.70     8.90    99.00    99.00
11  4  7 21    15.0 1   268.0     5.10     8.30    99.00    99.00
11  4  7 22    15.0 1   273.0     4.10     8.30    99.00    99.00
11  4  7 23    15.0 1   272.0     3.10     8.10    99.00    99.00
11  4  7 24    15.0 1   275.0     2.60     8.10    99.00    99.00
11  4  8  1    15.0 1   259.0     2.60     7.90    99.00    99.00
11  4  8  2    15.0 1   259.0     3.10     7.60    99.00    99.00
11  4  8  3    15.0 1   258.0     2.60     7.40    99.00    99.00
11  4  8  4    15.0 1   256.0     2.10     7.10    99.00    99.00
11  4  8  5    15.0 1   269.0     2.10     7.00    99.00    99.00
11  4  8  6    15.0 1   278.0     2.60     6.80    99.00    99.00
11  4  8  7    15.0 1   320.0     4.10     6.60    99.00    99.00
11  4  8  8    15.0 1   327.0     3.60     7.10    99.00    99.00
11  4  8  9    15.0 1   314.0     2.60     8.10    99.00    99.00
11  4  8 10    15.0 1   301.0     2.60     9.10    99.00    99.00
11  4  8 11    15.0 1   290.0     2.10    10.00    99.00    99.00
11  4  8 12    15.0 1   293.0     2.10    10.90    99.00    99.00
11  4  8 13    15.0 1   312.0     1.50    11.60    99.00    99.00
11  4  8 14    15.0 1   322.0     2.10    12.30    99.00    99.00
11  4  8 15    15.0 1   287.0     3.10    12.40    99.00    99.00
11  4  8 16    15.0 1   267.0     5.10    11.80    99.00    99.00
11  4  8 17    15.0 1   274.0     5.10    11.40    99.00    99.00
11  4  8 18    15.0 1   257.0     3.10    10.60    99.00    99.00
11  4  8 19    15.0 1   262.0     3.10     9.80    99.00    99.00
11  4  8 20    15.0 1   280.0     2.10     9.00    99.00    99.00
11  4  8 21    15.0 1   298.0     1.00     8.30    99.00    99.00
11  4  8 22    15.0 1   139.0     0.50     7.50    99.00    99.00
11  4  8 23    15.0 1   137.0     2.10     6.60    99.00    99.00
11  4  8 24    15.0 1   128.0     1.50     5.90    99.00    99.00
11  4  9  1    15.0 1   128.0     1.50     5.40    99.00    99.00
11  4  9  2    15.0 1   123.0     1.50     4.90    99.00    99.00
11  4  9  3    15.0 1   134.0     1.50     4.50    99.00    99.00
11  4  9  4    15.0 1   141.0     1.50     4.30    99.00    99.00
11  4  9  5    15.0 1   158.0     1.00     4.30    99.00    99.00
11  4  9  6    15.0 1   283.0     0.50     4.00    99.00    99.00
```

11	4	9	7	15.0	1	332.0	2.60	4.90	99.00	99.00
11	4	9	8	15.0	1	345.0	3.60	7.30	99.00	99.00
11	4	9	9	15.0	1	342.0	2.60	8.80	99.00	99.00
11	4	9	10	15.0	1	327.0	0.50	10.10	99.00	99.00
11	4	9	11	15.0	1	263.0	0.50	11.40	99.00	99.00
11	4	9	12	15.0	1	272.0	0.50	12.60	99.00	99.00
11	4	9	13	15.0	1	278.0	1.00	13.60	99.00	99.00
11	4	9	14	15.0	1	300.0	1.00	14.60	99.00	99.00
11	4	9	15	15.0	1	334.0	1.50	15.10	99.00	99.00
11	4	9	16	15.0	1	356.0	2.60	15.40	99.00	99.00
11	4	9	17	15.0	1	8.0	3.60	15.30	99.00	99.00
11	4	9	18	15.0	1	17.0	3.10	14.50	99.00	99.00
11	4	9	19	15.0	1	15.0	2.60	13.60	99.00	99.00
11	4	9	20	15.0	1	0.0	0.00	12.50	99.00	99.00
11	4	9	21	15.0	1	245.0	1.50	11.10	99.00	99.00
11	4	9	22	15.0	1	236.0	2.60	9.60	99.00	99.00
11	4	9	23	15.0	1	216.0	1.50	8.80	99.00	99.00
11	4	9	24	15.0	1	180.0	1.00	8.30	99.00	99.00
11	4	10	1	15.0	1	180.0	1.00	7.90	99.00	99.00
11	4	10	2	15.0	1	164.0	1.00	7.40	99.00	99.00
11	4	10	3	15.0	1	128.0	1.50	6.60	99.00	99.00
11	4	10	4	15.0	1	138.0	2.10	5.90	99.00	99.00
11	4	10	5	15.0	1	164.0	2.10	5.40	99.00	99.00
11	4	10	6	15.0	1	208.0	1.50	5.10	99.00	99.00
11	4	10	7	15.0	1	254.0	1.50	5.60	99.00	99.00
11	4	10	8	15.0	1	276.0	0.50	8.00	99.00	99.00
11	4	10	9	15.0	1	0.0	0.00	10.10	99.00	99.00
11	4	10	10	15.0	1	0.0	0.00	12.10	99.00	99.00
11	4	10	11	15.0	1	0.0	0.00	13.80	99.00	99.00
11	4	10	12	15.0	1	0.0	0.00	15.10	99.00	99.00
11	4	10	13	15.0	1	301.0	0.50	16.10	99.00	99.00
11	4	10	14	15.0	1	313.0	1.00	17.00	99.00	99.00
11	4	10	15	15.0	1	328.0	1.50	17.50	99.00	99.00
11	4	10	16	15.0	1	348.0	2.60	18.00	99.00	99.00
11	4	10	17	15.0	1	0.0	0.00	17.90	99.00	99.00
11	4	10	18	15.0	1	11.0	2.60	17.30	99.00	99.00
11	4	10	19	15.0	1	12.0	2.10	16.30	99.00	99.00
11	4	10	20	15.0	1	4.0	1.00	15.10	99.00	99.00
11	4	10	21	15.0	1	249.0	1.00	13.80	99.00	99.00
11	4	10	22	15.0	1	253.0	3.10	12.30	99.00	99.00
11	4	10	23	15.0	1	262.0	2.60	11.40	99.00	99.00
11	4	10	24	15.0	1	266.0	1.50	10.80	99.00	99.00
11	4	11	1	15.0	1	306.0	2.60	10.40	99.00	99.00
11	4	11	2	15.0	1	320.0	3.60	9.80	99.00	99.00
11	4	11	3	15.0	1	340.0	2.60	9.40	99.00	99.00
11	4	11	4	15.0	1	6.0	2.10	9.10	99.00	99.00
11	4	11	5	15.0	1	24.0	1.50	8.90	99.00	99.00
11	4	11	6	15.0	1	0.0	0.00	8.60	99.00	99.00
11	4	11	7	15.0	1	305.0	0.50	8.60	99.00	99.00
11	4	11	8	15.0	1	340.0	1.00	9.50	99.00	99.00
11	4	11	9	15.0	1	0.0	0.00	11.00	99.00	99.00
11	4	11	10	15.0	1	0.0	0.00	13.00	99.00	99.00
11	4	11	11	15.0	1	0.0	0.00	15.00	99.00	99.00
11	4	11	12	15.0	1	316.0	1.00	16.30	99.00	99.00
11	4	11	13	15.0	1	329.0	1.50	17.30	99.00	99.00
11	4	11	14	15.0	1	334.0	2.10	17.90	99.00	99.00
11	4	11	15	15.0	1	334.0	2.60	18.10	99.00	99.00
11	4	11	16	15.0	1	342.0	3.10	18.10	99.00	99.00
11	4	11	17	15.0	1	353.0	2.60	17.80	99.00	99.00
11	4	11	18	15.0	1	1.0	2.60	17.30	99.00	99.00
11	4	11	19	15.0	1	348.0	1.50	16.40	99.00	99.00
11	4	11	20	15.0	1	296.0	0.50	15.30	99.00	99.00
11	4	11	21	15.0	1	256.0	1.00	14.10	99.00	99.00
11	4	11	22	15.0	1	259.0	1.50	13.10	99.00	99.00
11	4	11	23	15.0	1	295.0	1.00	12.10	99.00	99.00
11	4	11	24	15.0	1	307.0	1.00	11.30	99.00	99.00
11	4	12	1	15.0	1	316.0	1.50	10.50	99.00	99.00
11	4	12	2	15.0	1	328.0	2.10	10.10	99.00	99.00
11	4	12	3	15.0	1	330.0	1.50	9.60	99.00	99.00
11	4	12	4	15.0	1	329.0	1.00	9.30	99.00	99.00
11	4	12	5	15.0	1	331.0	0.50	8.90	99.00	99.00
11	4	12	6	15.0	1	333.0	0.50	8.50	99.00	99.00
11	4	12	7	15.0	1	345.0	1.00	8.90	99.00	99.00
11	4	12	8	15.0	1	351.0	1.00	10.60	99.00	99.00
11	4	12	9	15.0	1	0.0	0.00	12.30	99.00	99.00
11	4	12	10	15.0	1	0.0	0.00	13.90	99.00	99.00
11	4	12	11	15.0	1	289.0	0.50	15.40	99.00	99.00

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11   4 12 12     15.0 1    296.0      0.50     16.60     99.00     99.00
11   4 12 13     15.0 1    306.0      1.00     17.90     99.00     99.00
11   4 12 14     15.0 1    335.0      1.50     18.80     99.00     99.00
11   4 12 15     15.0 1    346.0      2.10     19.30     99.00     99.00
11   4 12 16     15.0 1    357.0      3.10     19.60     99.00     99.00
11   4 12 17     15.0 1      6.0      3.10     19.40     99.00     99.00
11   4 12 18     15.0 1      6.0      2.60     19.00     99.00     99.00
11   4 12 19     15.0 1     15.0      2.60     18.00     99.00     99.00
11   4 12 20     15.0 1    302.0      1.50     16.80     99.00     99.00
11   4 12 21     15.0 1    262.0      5.70     14.60     99.00     99.00
11   4 12 22     15.0 1    280.0      6.20     12.60     99.00     99.00
11   4 12 23     15.0 1    298.0      4.60     11.10     99.00     99.00
11   4 12 24     15.0 1    313.0      4.10     10.40     99.00     99.00
11   4 13  1     15.0 1    313.0      3.10     10.10     99.00     99.00
11   4 13  2     15.0 1    302.0      2.10     10.10     99.00     99.00
11   4 13  3     15.0 1    282.0      2.10     10.00     99.00     99.00
11   4 13  4     15.0 1    271.0      2.60      9.60     99.00     99.00
11   4 13  5     15.0 1    284.0      3.60      9.00     99.00     99.00
11   4 13  6     15.0 1    287.0      4.60      8.10     99.00     99.00
11   4 13  7     15.0 1    286.0      4.60      8.00     99.00     99.00
11   4 13  8     15.0 1    309.0      3.60      9.10     99.00     99.00
11   4 13  9     15.0 1    311.0      2.60     10.10     99.00     99.00
11   4 13 10     15.0 1    322.0      2.10     11.40     99.00     99.00
11   4 13 11     15.0 1    320.0      2.10     12.60     99.00     99.00
11   4 13 12     15.0 1    329.0      2.60     13.60     99.00     99.00
11   4 13 13     15.0 1    341.0      3.60     14.60     99.00     99.00
11   4 13 14     15.0 1    355.0      5.10     15.10     99.00     99.00
11   4 13 15     15.0 1    355.0      6.20     15.50     99.00     99.00
11   4 13 16     15.0 1    353.0      7.70     15.50     99.00     99.00
11   4 13 17     15.0 1    352.0      7.70     15.00     99.00     99.00
11   4 13 18     15.0 1    354.0      5.10     13.60     99.00     99.00
11   4 13 19     15.0 1    354.0      4.60     12.10     99.00     99.00
11   4 13 20     15.0 1    354.0      4.10     11.10     99.00     99.00
11   4 13 21     15.0 1    341.0      3.10     10.50     99.00     99.00
11   4 13 22     15.0 1    345.0      1.00     10.10     99.00     99.00
11   4 13 23     15.0 1     87.0      0.50      9.50     99.00     99.00
11   4 13 24     15.0 1    127.0      0.50      8.80     99.00     99.00
11   4 14  1     15.0 1    144.0      1.00      8.10     99.00     99.00
11   4 14  2     15.0 1    125.0      1.00      7.50     99.00     99.00
11   4 14  3     15.0 1     98.0      1.00      7.00     99.00     99.00
11   4 14  4     15.0 1     87.0      0.50      6.40     99.00     99.00
11   4 14  5     15.0 1      0.0      0.00      5.90     99.00     99.00
11   4 14  6     15.0 1    313.0      0.50      5.60     99.00     99.00
11   4 14  7     15.0 1    332.0      0.50      6.60     99.00     99.00
11   4 14  8     15.0 1    323.0      0.50      9.10     99.00     99.00
11   4 14  9     15.0 1      0.0      0.00     10.60     99.00     99.00
11   4 14 10     15.0 1      0.0      0.00     12.10     99.00     99.00
11   4 14 11     15.0 1      0.0      0.00     13.60     99.00     99.00
11   4 14 12     15.0 1    306.0      0.50     15.00     99.00     99.00
11   4 14 13     15.0 1    306.0      1.50     16.10     99.00     99.00
11   4 14 14     15.0 1    320.0      2.10     17.00     99.00     99.00
11   4 14 15     15.0 1    335.0      2.60     17.60     99.00     99.00
11   4 14 16     15.0 1    341.0      3.60     17.80     99.00     99.00
11   4 14 17     15.0 1    338.0      3.60     17.60     99.00     99.00
11   4 14 18     15.0 1    341.0      2.10     17.30     99.00     99.00
11   4 14 19     15.0 1    308.0      1.00     16.40     99.00     99.00
11   4 14 20     15.0 1    267.0      1.00     15.30     99.00     99.00
11   4 14 21     15.0 1    250.0      0.50     14.00     99.00     99.00
11   4 14 22     15.0 1    206.0      0.50     12.60     99.00     99.00
11   4 14 23     15.0 1    164.0      0.50     11.50     99.00     99.00
11   4 14 24     15.0 1      0.0      0.00     10.60     99.00     99.00
11   4 15  1     15.0 1    301.0      0.50     10.00     99.00     99.00
11   4 15  2     15.0 1    308.0      1.00      9.40     99.00     99.00
11   4 15  3     15.0 1    310.0      0.50      8.90     99.00     99.00
11   4 15  4     15.0 1    302.0      0.50      8.50     99.00     99.00
11   4 15  5     15.0 1    305.0      0.50      8.10     99.00     99.00
11   4 15  6     15.0 1      0.0      0.00      7.80     99.00     99.00
11   4 15  7     15.0 1      0.0      0.00      8.30     99.00     99.00
11   4 15  8     15.0 1      0.0      0.00     10.60     99.00     99.00
11   4 15  9     15.0 1      0.0      0.00     12.80     99.00     99.00
11   4 15 10     15.0 1      0.0      0.00     14.60     99.00     99.00
11   4 15 11     15.0 1    290.0      0.50     16.60     99.00     99.00
11   4 15 12     15.0 1    300.0      0.50     18.30     99.00     99.00
11   4 15 13     15.0 1    308.0      1.00     19.60     99.00     99.00
11   4 15 14     15.0 1    331.0      1.50     20.90     99.00     99.00
11   4 15 15     15.0 1    336.0      2.60     21.50     99.00     99.00
11   4 15 16     15.0 1      2.0      3.10     22.90     99.00     99.00
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11  4 15 17    15.0 1   357.0     2.60    22.60    99.00    99.00
11  4 15 18    15.0 1   354.0     2.10    22.40    99.00    99.00
11  4 15 19    15.0 1   323.0     2.10    21.50    99.00    99.00
11  4 15 20    15.0 1   324.0     3.10    20.10    99.00    99.00
11  4 15 21    15.0 1   325.0     3.10    18.90    99.00    99.00
11  4 15 22    15.0 1   321.0     2.60    17.60    99.00    99.00
11  4 15 23    15.0 1   325.0     1.50    16.80    99.00    99.00
11  4 15 24    15.0 1   314.0     0.50    16.10    99.00    99.00
11  4 16  1    15.0 1   338.0     0.50    15.90    99.00    99.00
11  4 16  2    15.0 1   327.0     0.50    15.40    99.00    99.00
11  4 16  3    15.0 1   313.0     0.50    15.10    99.00    99.00
11  4 16  4    15.0 1   302.0     0.50    14.80    99.00    99.00
11  4 16  5    15.0 1   305.0     0.50    14.50    99.00    99.00
11  4 16  6    15.0 1     0.0     0.00    14.10    99.00    99.00
11  4 16  7    15.0 1     0.0     0.00    14.10    99.00    99.00
11  4 16  8    15.0 1   343.0     0.50    15.60    99.00    99.00
11  4 16  9    15.0 1   305.0     0.50    16.90    99.00    99.00
11  4 16 10    15.0 1   299.0     0.50    18.10    99.00    99.00
11  4 16 11    15.0 1   311.0     0.50    19.60    99.00    99.00
11  4 16 12    15.0 1   319.0     1.00    21.10    99.00    99.00
11  4 16 13    15.0 1   328.0     2.10    22.50    99.00    99.00
11  4 16 14    15.0 1   345.0     3.10    23.50    99.00    99.00
11  4 16 15    15.0 1   345.0     4.10    23.90    99.00    99.00
11  4 16 16    15.0 1   355.0     4.60    23.80    99.00    99.00
11  4 16 17    15.0 1   346.0     3.60    23.10    99.00    99.00
11  4 16 18    15.0 1   351.0     3.60    22.00    99.00    99.00
11  4 16 19    15.0 1   328.0     4.10    20.10    99.00    99.00
11  4 16 20    15.0 1   329.0     3.60    18.80    99.00    99.00
11  4 16 21    15.0 1   306.0     2.60    18.10    99.00    99.00
11  4 16 22    15.0 1   295.0     2.10    17.60    99.00    99.00
11  4 16 23    15.0 1   268.0     1.50    17.10    99.00    99.00
11  4 16 24    15.0 1   277.0     1.00    16.50    99.00    99.00
11  4 17  1    15.0 1   289.0     0.50    15.90    99.00    99.00
11  4 17  2    15.0 1   299.0     1.00    15.40    99.00    99.00
11  4 17  3    15.0 1   306.0     1.50    14.80    99.00    99.00
11  4 17  4    15.0 1   297.0     1.50    14.10    99.00    99.00
11  4 17  5    15.0 1   300.0     1.50    13.80    99.00    99.00
11  4 17  6    15.0 1   299.0     1.50    13.60    99.00    99.00
11  4 17  7    15.0 1   306.0     1.50    13.80    99.00    99.00
11  4 17  8    15.0 1   330.0     1.50    14.40    99.00    99.00
11  4 17  9    15.0 1   347.0     1.50    15.10    99.00    99.00
11  4 17 10    15.0 1   336.0     1.00    15.90    99.00    99.00
11  4 17 11    15.0 1   319.0     0.50    16.90    99.00    99.00
11  4 17 12    15.0 1     0.0     0.00    18.80    99.00    99.00
11  4 17 13    15.0 1     0.0     0.00    20.60    99.00    99.00
11  4 17 14    15.0 1     0.0     0.00    21.90    99.00    99.00
11  4 17 15    15.0 1   352.0     1.00    22.90    99.00    99.00
11  4 17 16    15.0 1   349.0     3.10    23.10    99.00    99.00
11  4 17 17    15.0 1   352.0     3.60    22.60    99.00    99.00
11  4 17 18    15.0 1   343.0     4.60    20.80    99.00    99.00
11  4 17 19    15.0 1   337.0     4.10    18.90    99.00    99.00
11  4 17 20    15.0 1   340.0     3.60    17.80    99.00    99.00
11  4 17 21    15.0 1   339.0     3.10    17.10    99.00    99.00
11  4 17 22    15.0 1   335.0     2.60    16.60    99.00    99.00
11  4 17 23    15.0 1   332.0     2.60    16.10    99.00    99.00
11  4 17 24    15.0 1   335.0     2.10    15.90    99.00    99.00
11  4 18  1    15.0 1   339.0     2.10    15.80    99.00    99.00
11  4 18  2    15.0 1   329.0     1.50    15.60    99.00    99.00
11  4 18  3    15.0 1   318.0     1.50    15.40    99.00    99.00
11  4 18  4    15.0 1   307.0     2.10    15.10    99.00    99.00
11  4 18  5    15.0 1   314.0     2.60    14.90    99.00    99.00
11  4 18  6    15.0 1   308.0     2.10    14.80    99.00    99.00
11  4 18  7    15.0 1   325.0     2.10    14.60    99.00    99.00
11  4 18  8    15.0 1   342.0     2.60    14.60    99.00    99.00
11  4 18  9    15.0 1   338.0     2.10    14.80    99.00    99.00
11  4 18 10    15.0 1   344.0     1.50    15.10    99.00    99.00
11  4 18 11    15.0 1   354.0     0.50    15.90    99.00    99.00
11  4 18 12    15.0 1     0.0     0.00    17.50    99.00    99.00
11  4 18 13    15.0 1    45.0     0.50    18.60    99.00    99.00
11  4 18 14    15.0 1    35.0     0.50    20.00    99.00    99.00
11  4 18 15    15.0 1    24.0     1.50    21.00    99.00    99.00
11  4 18 16    15.0 1    15.0     2.60    21.40    99.00    99.00
11  4 18 17    15.0 1    11.0     3.60    21.30    99.00    99.00
11  4 18 18    15.0 1    25.0     3.10    20.80    99.00    99.00
11  4 18 19    15.0 1     9.0     3.60    19.60    99.00    99.00
11  4 18 20    15.0 1   349.0     3.10    18.60    99.00    99.00
11  4 18 21    15.0 1   319.0     3.60    17.80    99.00    99.00
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11   4 18 22     15.0 1   309.0      3.10     17.10     99.00     99.00
11   4 18 23     15.0 1   303.0      3.10     16.60     99.00     99.00
11   4 18 24     15.0 1   280.0      3.10     16.10     99.00     99.00
11   4 19  1     15.0 1   275.0      3.10     15.60     99.00     99.00
11   4 19  2     15.0 1   269.0      3.10     15.40     99.00     99.00
11   4 19  3     15.0 1   269.0      2.60     15.40     99.00     99.00
11   4 19  4     15.0 1   280.0      2.60     15.40     99.00     99.00
11   4 19  5     15.0 1   290.0      2.10     15.30     99.00     99.00
11   4 19  6     15.0 1   295.0      2.10     15.10     99.00     99.00
11   4 19  7     15.0 1   276.0      1.50     15.10     99.00     99.00
11   4 19  8     15.0 1   295.0      1.00     15.30     99.00     99.00
11   4 19  9     15.0 1   313.0      0.50     15.60     99.00     99.00
11   4 19 10     15.0 1     0.0      0.00     16.80     99.00     99.00
11   4 19 11     15.0 1     0.0      0.00     17.60     99.00     99.00
11   4 19 12     15.0 1     0.0      0.00     18.80     99.00     99.00
11   4 19 13     15.0 1     0.0      0.00     19.90     99.00     99.00
11   4 19 14     15.0 1   346.0      1.50     20.90     99.00     99.00
11   4 19 15     15.0 1     0.0      0.00     21.40     99.00     99.00
11   4 19 16     15.0 1     8.0      3.10     21.40     99.00     99.00
11   4 19 17     15.0 1    30.0      2.60     21.10     99.00     99.00
11   4 19 18     15.0 1    46.0      2.60     20.50     99.00     99.00
11   4 19 19     15.0 1    63.0      1.50     19.80     99.00     99.00
11   4 19 20     15.0 1   248.0      1.50     19.00     99.00     99.00
11   4 19 21     15.0 1   275.0      4.10     17.10     99.00     99.00
11   4 19 22     15.0 1   264.0      3.60     15.10     99.00     99.00
11   4 19 23     15.0 1   260.0      3.60     14.00     99.00     99.00
11   4 19 24     15.0 1   259.0      3.60     13.10     99.00     99.00
11   4 20  1     15.0 1   269.0      3.60     12.60     99.00     99.00
11   4 20  2     15.0 1   268.0      3.10     12.10     99.00     99.00
11   4 20  3     15.0 1   279.0      2.60     11.80     99.00     99.00
11   4 20  4     15.0 1   293.0      2.10     11.60     99.00     99.00
11   4 20  5     15.0 1   295.0      1.50     11.60     99.00     99.00
11   4 20  6     15.0 1   294.0      2.10     11.80     99.00     99.00
11   4 20  7     15.0 1   279.0      2.10     12.00     99.00     99.00
11   4 20  8     15.0 1   288.0      0.50     13.00     99.00     99.00
11   4 20  9     15.0 1     0.0      0.00     15.10     99.00     99.00
11   4 20 10     15.0 1     0.0      0.00     17.10     99.00     99.00
11   4 20 11     15.0 1     0.0      0.00     19.10     99.00     99.00
11   4 20 12     15.0 1     0.0      0.00     20.90     99.00     99.00
11   4 20 13     15.0 1     0.0      0.00     22.40     99.00     99.00
11   4 20 14     15.0 1     0.0      0.00     23.60     99.00     99.00
11   4 20 15     15.0 1   293.0      1.50     24.40     99.00     99.00
11   4 20 16     15.0 1   283.0      4.60     24.60     99.00     99.00
11   4 20 17     15.0 1   292.0      3.60     23.60     99.00     99.00
11   4 20 18     15.0 1   289.0      4.60     21.80     99.00     99.00
11   4 20 19     15.0 1   293.0      5.10     19.10     99.00     99.00
11   4 20 20     15.0 1   286.0      4.60     17.30     99.00     99.00
11   4 20 21     15.0 1   302.0      3.60     16.10     99.00     99.00
11   4 20 22     15.0 1   318.0      3.10     15.60     99.00     99.00
11   4 20 23     15.0 1    11.0      2.60     15.50     99.00     99.00
11   4 20 24     15.0 1    55.0      2.10     15.30     99.00     99.00
11   4 21  1     15.0 1    60.0      1.00     15.10     99.00     99.00
11   4 21  2     15.0 1    75.0      1.00     14.60     99.00     99.00
11   4 21  3     15.0 1    73.0      1.00     14.40     99.00     99.00
11   4 21  4     15.0 1    66.0      0.50     14.10     99.00     99.00
11   4 21  5     15.0 1     0.0      0.00     13.90     99.00     99.00
11   4 21  6     15.0 1     0.0      0.00     13.40     99.00     99.00
11   4 21  7     15.0 1   287.0      1.50     13.80     99.00     99.00
11   4 21  8     15.0 1   309.0      3.60     15.10     99.00     99.00
11   4 21  9     15.0 1   317.0      3.10     16.50     99.00     99.00
11   4 21 10     15.0 1   334.0      3.10     17.30     99.00     99.00
11   4 21 11     15.0 1   330.0      3.10     18.00     99.00     99.00
11   4 21 12     15.0 1   326.0      2.60     18.90     99.00     99.00
11   4 21 13     15.0 1   343.0      3.10     19.40     99.00     99.00
11   4 21 14     15.0 1   328.0      5.10     19.30     99.00     99.00
11   4 21 15     15.0 1   333.0      5.10     19.50     99.00     99.00
11   4 21 16     15.0 1   339.0      5.70     19.00     99.00     99.00
11   4 21 17     15.0 1   344.0      5.70     18.10     99.00     99.00
11   4 21 18     15.0 1   344.0      3.60     17.10     99.00     99.00
11   4 21 19     15.0 1   333.0      3.10     15.80     99.00     99.00
11   4 21 20     15.0 1   318.0      2.60     15.10     99.00     99.00
11   4 21 21     15.0 1   289.0      1.50     14.60     99.00     99.00
11   4 21 22     15.0 1   250.0      1.50     13.90     99.00     99.00
11   4 21 23     15.0 1   239.0      1.50     13.00     99.00     99.00
11   4 21 24     15.0 1   247.0      1.50     12.10     99.00     99.00
11   4 22  1     15.0 1   280.0      1.00     11.50     99.00     99.00
11   4 22  2     15.0 1   330.0      1.00     10.90     99.00     99.00
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11  4 22  3    15.0 1   336.0     1.00    10.30    99.00    99.00
11  4 22  4    15.0 1   317.0     1.00     9.80    99.00    99.00
11  4 22  5    15.0 1   310.0     1.50     9.40    99.00    99.00
11  4 22  6    15.0 1   297.0     2.10     9.00    99.00    99.00
11  4 22  7    15.0 1   325.0     2.10     9.40    99.00    99.00
11  4 22  8    15.0 1   341.0     2.10    11.00    99.00    99.00
11  4 22  9    15.0 1     0.0     0.00    12.60    99.00    99.00
11  4 22 10    15.0 1     0.0     0.00    14.10    99.00    99.00
11  4 22 11    15.0 1     0.0     0.00    15.60    99.00    99.00
11  4 22 12    15.0 1     0.0     0.00    16.80    99.00    99.00
11  4 22 13    15.0 1     0.0     0.00    17.60    99.00    99.00
11  4 22 14    15.0 1     0.0     0.00    18.50    99.00    99.00
11  4 22 15    15.0 1   350.0     1.00    19.10    99.00    99.00
11  4 22 16    15.0 1    21.0     2.60    19.10    99.00    99.00
11  4 22 17    15.0 1    19.0     2.60    18.50    99.00    99.00
11  4 22 18    15.0 1    23.0     3.10    17.60    99.00    99.00
11  4 22 19    15.0 1     0.0     0.00    17.10    99.00    99.00
11  4 22 20    15.0 1   314.0     1.50    16.10    99.00    99.00
11  4 22 21    15.0 1   286.0     3.60    14.90    99.00    99.00
11  4 22 22    15.0 1   288.0     4.10    12.90    99.00    99.00
11  4 22 23    15.0 1   304.0     3.60    11.60    99.00    99.00
11  4 22 24    15.0 1   297.0     3.10    10.80    99.00    99.00
11  4 23  1    15.0 1   316.0     2.60    10.10    99.00    99.00
11  4 23  2    15.0 1   340.0     2.10     9.90    99.00    99.00
11  4 23  3    15.0 1    10.0     1.00     9.50    99.00    99.00
11  4 23  4    15.0 1     0.0     0.00     9.10    99.00    99.00
11  4 23  5    15.0 1     0.0     0.00     8.60    99.00    99.00
11  4 23  6    15.0 1   161.0     0.50     8.10    99.00    99.00
11  4 23  7    15.0 1   180.0     0.50     9.50    99.00    99.00
11  4 23  8    15.0 1   175.0     0.50    11.80    99.00    99.00
11  4 23  9    15.0 1   168.0     0.50    13.40    99.00    99.00
11  4 23 10    15.0 1   171.0     0.50    15.10    99.00    99.00
11  4 23 11    15.0 1     0.0     0.00    16.60    99.00    99.00
11  4 23 12    15.0 1     0.0     0.00    18.30    99.00    99.00
11  4 23 13    15.0 1     0.0     0.00    19.50    99.00    99.00
11  4 23 14    15.0 1     0.0     0.00    20.50    99.00    99.00
11  4 23 15    15.0 1     0.0     0.00    21.10    99.00    99.00
11  4 23 16    15.0 1     0.0     0.00    21.60    99.00    99.00
11  4 23 17    15.0 1   291.0     2.60    21.60    99.00    99.00
11  4 23 18    15.0 1   289.0     4.60    19.60    99.00    99.00
11  4 23 19    15.0 1   286.0     5.70    16.90    99.00    99.00
11  4 23 20    15.0 1   295.0     4.60    15.80    99.00    99.00
11  4 23 21    15.0 1   277.0     3.60    15.00    99.00    99.00
11  4 23 22    15.0 1   290.0     2.60    14.60    99.00    99.00
11  4 23 23    15.0 1   312.0     2.10    14.10    99.00    99.00
11  4 23 24    15.0 1   330.0     1.50    13.90    99.00    99.00
11  4 24  1    15.0 1    34.0     0.50    13.80    99.00    99.00
11  4 24  2    15.0 1     0.0     0.00    13.80    99.00    99.00
11  4 24  3    15.0 1     0.0     0.00    13.60    99.00    99.00
11  4 24  4    15.0 1     0.0     0.00    13.60    99.00    99.00
11  4 24  5    15.0 1   247.0     1.00    13.50    99.00    99.00
11  4 24  6    15.0 1   261.0     2.10    13.50    99.00    99.00
11  4 24  7    15.0 1   266.0     3.10    13.50    99.00    99.00
11  4 24  8    15.0 1   291.0     2.60    13.80    99.00    99.00
11  4 24  9    15.0 1   306.0     3.10    15.30    99.00    99.00
11  4 24 10    15.0 1   318.0     2.10    17.10    99.00    99.00
11  4 24 11    15.0 1   316.0     2.60    17.40    99.00    99.00
11  4 24 12    15.0 1   343.0     2.10    18.40    99.00    99.00
11  4 24 13    15.0 1   349.0     2.60    19.50    99.00    99.00
11  4 24 14    15.0 1     2.0     3.10    20.30    99.00    99.00
11  4 24 15    15.0 1   358.0     4.60    20.60    99.00    99.00
11  4 24 16    15.0 1   350.0     5.70    20.50    99.00    99.00
11  4 24 17    15.0 1   352.0     6.20    19.80    99.00    99.00
11  4 24 18    15.0 1   352.0     4.60    18.50    99.00    99.00
11  4 24 19    15.0 1   351.0     5.10    16.10    99.00    99.00
11  4 24 20    15.0 1   349.0     4.10    14.60    99.00    99.00
11  4 24 21    15.0 1   348.0     3.10    13.80    99.00    99.00
11  4 24 22    15.0 1   330.0     2.10    13.30    99.00    99.00
11  4 24 23    15.0 1   285.0     1.50    12.90    99.00    99.00
11  4 24 24    15.0 1   270.0     2.10    12.40    99.00    99.00
11  4 25  1    15.0 1   292.0     1.00    12.00    99.00    99.00
11  4 25  2    15.0 1     0.0     0.00    11.60    99.00    99.00
11  4 25  3    15.0 1    58.0     0.50    11.10    99.00    99.00
11  4 25  4    15.0 1     0.0     0.00    10.60    99.00    99.00
11  4 25  5    15.0 1     0.0     0.00    10.10    99.00    99.00
11  4 25  6    15.0 1    14.0     0.50     9.60    99.00    99.00
11  4 25  7    15.0 1   108.0     0.50    11.50    99.00    99.00
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11   4 25   8     15.0 1     0.0     0.00    13.30    99.00    99.00
11   4 25   9     15.0 1     0.0     0.00    15.00    99.00    99.00
11   4 25  10     15.0 1     0.0     0.00    16.90    99.00    99.00
11   4 25  11     15.0 1     0.0     0.00    18.60    99.00    99.00
11   4 25  12     15.0 1     0.0     0.00    20.10    99.00    99.00
11   4 25  13     15.0 1   313.0     0.50    21.10    99.00    99.00
11   4 25  14     15.0 1   345.0     2.60    22.10    99.00    99.00
11   4 25  15     15.0 1   351.0     4.10    22.40    99.00    99.00
11   4 25  16     15.0 1     2.0     5.10    22.30    99.00    99.00
11   4 25  17     15.0 1   359.0     4.60    21.60    99.00    99.00
11   4 25  18     15.0 1   354.0     4.10    20.40    99.00    99.00
11   4 25  19     15.0 1   354.0     5.10    17.90    99.00    99.00
11   4 25  20     15.0 1   360.0     5.10    15.90    99.00    99.00
11   4 25  21     15.0 1   351.0     4.10    14.60    99.00    99.00
11   4 25  22     15.0 1   336.0     3.60    14.00    99.00    99.00
11   4 25  23     15.0 1   307.0     4.10    13.40    99.00    99.00
11   4 25  24     15.0 1   314.0     4.10    12.90    99.00    99.00
11   4 26   1     15.0 1   309.0     4.10    12.10    99.00    99.00
11   4 26   2     15.0 1   313.0     4.10    11.10    99.00    99.00
11   4 26   3     15.0 1   308.0     3.60    10.10    99.00    99.00
11   4 26   4     15.0 1   302.0     2.60     9.50    99.00    99.00
11   4 26   5     15.0 1   290.0     1.50     9.00    99.00    99.00
11   4 26   6     15.0 1   242.0     1.00     8.60    99.00    99.00
11   4 26   7     15.0 1   345.0     3.60    10.00    99.00    99.00
11   4 26   8     15.0 1   350.0     2.60    11.30    99.00    99.00
11   4 26   9     15.0 1   352.0     1.00    12.80    99.00    99.00
11   4 26  10     15.0 1   336.0     0.50    14.40    99.00    99.00
11   4 26  11     15.0 1     0.0     0.00    16.00    99.00    99.00
11   4 26  12     15.0 1   316.0     0.50    17.40    99.00    99.00
11   4 26  13     15.0 1   332.0     2.10    18.60    99.00    99.00
11   4 26  14     15.0 1   334.0     3.60    19.60    99.00    99.00
11   4 26  15     15.0 1   340.0     5.10    20.10    99.00    99.00
11   4 26  16     15.0 1   344.0     6.20    20.10    99.00    99.00
11   4 26  17     15.0 1   335.0     5.10    19.60    99.00    99.00
11   4 26  18     15.0 1   335.0     4.10    18.30    99.00    99.00
11   4 26  19     15.0 1   326.0     4.60    16.30    99.00    99.00
11   4 26  20     15.0 1   316.0     4.10    15.00    99.00    99.00
11   4 26  21     15.0 1   318.0     3.10    14.30    99.00    99.00
11   4 26  22     15.0 1   297.0     2.10    13.80    99.00    99.00
11   4 26  23     15.0 1   267.0     1.00    13.40    99.00    99.00
11   4 26  24     15.0 1   278.0     0.50    12.90    99.00    99.00
11   4 27   1     15.0 1   279.0     0.50    12.10    99.00    99.00
11   4 27   2     15.0 1   320.0     0.50    11.60    99.00    99.00
11   4 27   3     15.0 1   339.0     0.50    11.10    99.00    99.00
11   4 27   4     15.0 1   340.0     0.50    10.60    99.00    99.00
11   4 27   5     15.0 1   337.0     0.50    10.10    99.00    99.00
11   4 27   6     15.0 1   321.0     0.50     9.60    99.00    99.00
11   4 27   7     15.0 1   339.0     1.50    10.80    99.00    99.00
11   4 27   8     15.0 1   327.0     0.50    12.30    99.00    99.00
11   4 27   9     15.0 1     0.0     0.00    14.00    99.00    99.00
11   4 27  10     15.0 1     0.0     0.00    15.50    99.00    99.00
11   4 27  11     15.0 1     0.0     0.00    17.10    99.00    99.00
11   4 27  12     15.0 1     0.0     0.00    18.60    99.00    99.00
11   4 27  13     15.0 1   289.0     0.50    19.80    99.00    99.00
11   4 27  14     15.0 1   316.0     1.00    20.60    99.00    99.00
11   4 27  15     15.0 1   340.0     2.10    21.10    99.00    99.00
11   4 27  16     15.0 1     8.0     2.60    21.10    99.00    99.00
11   4 27  17     15.0 1    28.0     2.60    20.60    99.00    99.00
11   4 27  18     15.0 1    44.0     2.60    20.00    99.00    99.00
11   4 27  19     15.0 1    56.0     2.60    19.10    99.00    99.00
11   4 27  20     15.0 1    79.0     1.50    18.00    99.00    99.00
11   4 27  21     15.0 1   106.0     1.00    16.80    99.00    99.00
11   4 27  22     15.0 1   157.0     0.50    15.60    99.00    99.00
11   4 27  23     15.0 1     0.0     0.00    14.50    99.00    99.00
11   4 27  24     15.0 1   319.0     0.50    13.60    99.00    99.00
11   4 28   1     15.0 1   332.0     2.10    13.10    99.00    99.00
11   4 28   2     15.0 1   341.0     3.60    12.10    99.00    99.00
11   4 28   3     15.0 1   360.0     3.10    11.50    99.00    99.00
11   4 28   4     15.0 1     4.0     2.60    11.10    99.00    99.00
11   4 28   5     15.0 1     5.0     1.50    10.60    99.00    99.00
11   4 28   6     15.0 1   342.0     0.50    10.30    99.00    99.00
11   4 28   7     15.0 1   347.0     1.50    11.50    99.00    99.00
11   4 28   8     15.0 1     0.0     0.00    13.40    99.00    99.00
11   4 28   9     15.0 1     0.0     0.00    15.40    99.00    99.00
11   4 28  10     15.0 1     0.0     0.00    17.30    99.00    99.00
11   4 28  11     15.0 1   298.0     1.00    18.90    99.00    99.00
11   4 28  12     15.0 1   323.0     1.50    20.30    99.00    99.00
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11   4 28 13     15.0 1   337.0      3.10     21.30     99.00     99.00
11   4 28 14     15.0 1   337.0      4.10     21.90     99.00     99.00
11   4 28 15     15.0 1   345.0      5.10     22.10     99.00     99.00
11   4 28 16     15.0 1   344.0      5.70     21.90     99.00     99.00
11   4 28 17     15.0 1   339.0      4.60     21.10     99.00     99.00
11   4 28 18     15.0 1   336.0      4.10     19.60     99.00     99.00
11   4 28 19     15.0 1   345.0      4.60     17.50     99.00     99.00
11   4 28 20     15.0 1   337.0      4.60     15.60     99.00     99.00
11   4 28 21     15.0 1   340.0      4.60     14.40     99.00     99.00
11   4 28 22     15.0 1   335.0      4.60     13.30     99.00     99.00
11   4 28 23     15.0 1   321.0      5.10     12.30     99.00     99.00
11   4 28 24     15.0 1   323.0      5.10     11.30     99.00     99.00
11   4 29  1     15.0 1   320.0      5.10     10.40     99.00     99.00
11   4 29  2     15.0 1   317.0      4.60      9.60     99.00     99.00
11   4 29  3     15.0 1   320.0      4.60      9.00     99.00     99.00
11   4 29  4     15.0 1   320.0      3.60      8.40     99.00     99.00
11   4 29  5     15.0 1   309.0      2.10      7.90     99.00     99.00
11   4 29  6     15.0 1   291.0      0.50      7.50     99.00     99.00
11   4 29  7     15.0 1   339.0      5.10      9.30     99.00     99.00
11   4 29  8     15.0 1   337.0      4.60     10.60     99.00     99.00
11   4 29  9     15.0 1   345.0      4.10     12.10     99.00     99.00
11   4 29 10     15.0 1   339.0      3.60     13.50     99.00     99.00
11   4 29 11     15.0 1   336.0      4.60     14.80     99.00     99.00
11   4 29 12     15.0 1   334.0      4.60     15.80     99.00     99.00
11   4 29 13     15.0 1   330.0      5.10     16.60     99.00     99.00
11   4 29 14     15.0 1   329.0      5.70     17.40     99.00     99.00
11   4 29 15     15.0 1   330.0      6.20     17.90     99.00     99.00
11   4 29 16     15.0 1   333.0      6.20     18.00     99.00     99.00
11   4 29 17     15.0 1   332.0      5.10     17.60     99.00     99.00
11   4 29 18     15.0 1   335.0      3.10     16.50     99.00     99.00
11   4 29 19     15.0 1   324.0      3.60     15.10     99.00     99.00
11   4 29 20     15.0 1   301.0      3.10     14.10     99.00     99.00
11   4 29 21     15.0 1   277.0      2.60     13.30     99.00     99.00
11   4 29 22     15.0 1   237.0      2.60     12.40     99.00     99.00
11   4 29 23     15.0 1   227.0      3.60     11.50     99.00     99.00
11   4 29 24     15.0 1   230.0      3.60     10.10     99.00     99.00
11   4 30  1     15.0 1   236.0      2.10      9.10     99.00     99.00
11   4 30  2     15.0 1   309.0      1.50      8.10     99.00     99.00
11   4 30  3     15.0 1   317.0      2.10      7.60     99.00     99.00
11   4 30  4     15.0 1   298.0      1.50      7.00     99.00     99.00
11   4 30  5     15.0 1   289.0      1.50      6.50     99.00     99.00
11   4 30  6     15.0 1   282.0      2.10      6.10     99.00     99.00
11   4 30  7     15.0 1   327.0      2.10      8.10     99.00     99.00
11   4 30  8     15.0 1   343.0      0.50     10.40     99.00     99.00
11   4 30  9     15.0 1   278.0      0.50     12.90     99.00     99.00
11   4 30 10     15.0 1   294.0      0.50     14.90     99.00     99.00
11   4 30 11     15.0 1   307.0      0.50     17.00     99.00     99.00
11   4 30 12     15.0 1   338.0      1.00     18.50     99.00     99.00
11   4 30 13     15.0 1   349.0      1.50     19.60     99.00     99.00
11   4 30 14     15.0 1   347.0      2.10     20.40     99.00     99.00
11   4 30 15     15.0 1   343.0      2.10     21.10     99.00     99.00
11   4 30 16     15.0 1   338.0      2.60     21.60     99.00     99.00
11   4 30 17     15.0 1   338.0      2.60     21.80     99.00     99.00
11   4 30 18     15.0 1     2.0      1.50     21.30     99.00     99.00
11   4 30 19     15.0 1     0.0      0.00     20.10     99.00     99.00
11   4 30 20     15.0 1    12.0      2.60     18.90     99.00     99.00
11   4 30 21     15.0 1    35.0      1.50     17.60     99.00     99.00
11   4 30 22     15.0 1    35.0      1.00     16.50     99.00     99.00
11   4 30 23     15.0 1   323.0      1.00     15.10     99.00     99.00
11   4 30 24     15.0 1   239.0      0.50     13.80     99.00     99.00
11   5  1  1     15.0 1   170.0      1.50     12.80     99.00     99.00
11   5  1  2     15.0 1   232.0      2.60     12.10     99.00     99.00
11   5  1  3     15.0 1   264.0      3.60     10.90     99.00     99.00
11   5  1  4     15.0 1   275.0      3.10      9.80     99.00     99.00
11   5  1  5     15.0 1   271.0      3.10      9.00     99.00     99.00
11   5  1  6     15.0 1   285.0      3.10      8.50     99.00     99.00
11   5  1  7     15.0 1   286.0      3.10     10.60     99.00     99.00
11   5  1  8     15.0 1   281.0      2.10     12.60     99.00     99.00
11   5  1  9     15.0 1   254.0      1.50     15.40     99.00     99.00
11   5  1 10     15.0 1   252.0      1.00     17.50     99.00     99.00
11   5  1 11     15.0 1   231.0      0.50     19.60     99.00     99.00
11   5  1 12     15.0 1     0.0      0.00     21.40     99.00     99.00
11   5  1 13     15.0 1     0.0      0.00     22.60     99.00     99.00
11   5  1 14     15.0 1     0.0      0.00     23.50     99.00     99.00
11   5  1 15     15.0 1    52.0      0.50     24.00     99.00     99.00
11   5  1 16     15.0 1    40.0      1.50     24.10     99.00     99.00
11   5  1 17     15.0 1    26.0      2.60     23.80     99.00     99.00
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11   5   1 18     15.0 1     31.0      3.10     22.60     99.00     99.00
11   5   1 19     15.0 1     31.0      4.10     21.50     99.00     99.00
11   5   1 20     15.0 1     50.0      3.10     20.40     99.00     99.00
11   5   1 21     15.0 1     88.0      1.00     18.80     99.00     99.00
11   5   1 22     15.0 1    230.0      1.50     17.10     99.00     99.00
11   5   1 23     15.0 1    257.0      2.60     16.10     99.00     99.00
11   5   1 24     15.0 1    290.0      1.00     15.50     99.00     99.00
11   5   2  1     15.0 1     82.0      1.50     14.60     99.00     99.00
11   5   2  2     15.0 1     95.0      2.10     14.10     99.00     99.00
11   5   2  3     15.0 1    128.0      0.50     13.90     99.00     99.00
11   5   2  4     15.0 1    258.0      1.00     13.60     99.00     99.00
11   5   2  5     15.0 1    284.0      2.10     13.60     99.00     99.00
11   5   2  6     15.0 1    286.0      3.10     13.80     99.00     99.00
11   5   2  7     15.0 1    293.0      2.60     15.00     99.00     99.00
11   5   2  8     15.0 1    286.0      2.60     17.10     99.00     99.00
11   5   2  9     15.0 1    283.0      1.00     19.50     99.00     99.00
11   5   2 10     15.0 1      0.0      0.00     21.50     99.00     99.00
11   5   2 11     15.0 1      0.0      0.00     23.10     99.00     99.00
11   5   2 12     15.0 1      0.0      0.00     24.30     99.00     99.00
11   5   2 13     15.0 1      0.0      0.00     25.30     99.00     99.00
11   5   2 14     15.0 1    282.0      0.50     26.10     99.00     99.00
11   5   2 15     15.0 1    336.0      0.50     26.60     99.00     99.00
11   5   2 16     15.0 1     20.0      1.50     26.80     99.00     99.00
11   5   2 17     15.0 1     35.0      2.60     26.10     99.00     99.00
11   5   2 18     15.0 1     31.0      3.10     25.10     99.00     99.00
11   5   2 19     15.0 1     34.0      3.60     24.00     99.00     99.00
11   5   2 20     15.0 1      8.0      2.10     22.60     99.00     99.00
11   5   2 21     15.0 1    276.0      0.50     20.90     99.00     99.00
11   5   2 22     15.0 1    266.0      1.50     19.30     99.00     99.00
11   5   2 23     15.0 1    274.0      2.10     17.90     99.00     99.00
11   5   2 24     15.0 1    278.0      1.50     17.00     99.00     99.00
11   5   3  1     15.0 1    311.0      2.60     16.30     99.00     99.00
11   5   3  2     15.0 1    332.0      2.10     15.40     99.00     99.00
11   5   3  3     15.0 1    331.0      1.50     14.60     99.00     99.00
11   5   3  4     15.0 1    321.0      2.10     14.00     99.00     99.00
11   5   3  5     15.0 1    308.0      2.10     13.60     99.00     99.00
11   5   3  6     15.0 1    311.0      1.00     13.10     99.00     99.00
11   5   3  7     15.0 1    337.0      2.10     14.60     99.00     99.00
11   5   3  8     15.0 1    350.0      0.50     16.50     99.00     99.00
11   5   3  9     15.0 1      0.0      0.00     18.60     99.00     99.00
11   5   3 10     15.0 1      0.0      0.00     20.60     99.00     99.00
11   5   3 11     15.0 1      0.0      0.00     22.30     99.00     99.00
11   5   3 12     15.0 1      0.0      0.00     23.80     99.00     99.00
11   5   3 13     15.0 1    316.0      0.50     24.90     99.00     99.00
11   5   3 14     15.0 1    327.0      1.50     25.60     99.00     99.00
11   5   3 15     15.0 1    344.0      2.10     26.10     99.00     99.00
11   5   3 16     15.0 1    346.0      3.10     26.40     99.00     99.00
11   5   3 17     15.0 1    358.0      3.10     26.00     99.00     99.00
11   5   3 18     15.0 1      1.0      3.10     25.10     99.00     99.00
11   5   3 19     15.0 1    346.0      3.60     23.80     99.00     99.00
11   5   3 20     15.0 1    336.0      4.10     21.90     99.00     99.00
11   5   3 21     15.0 1    328.0      3.60     20.30     99.00     99.00
11   5   3 22     15.0 1    331.0      3.60     19.40     99.00     99.00
11   5   3 23     15.0 1    326.0      3.10     18.60     99.00     99.00
11   5   3 24     15.0 1    326.0      2.60     17.60     99.00     99.00
11   5   4  1     15.0 1    337.0      1.00     16.90     99.00     99.00
11   5   4  2     15.0 1    300.0      0.50     16.30     99.00     99.00
11   5   4  3     15.0 1    287.0      1.50     15.60     99.00     99.00
11   5   4  4     15.0 1    294.0      2.60     14.90     99.00     99.00
11   5   4  5     15.0 1    282.0      2.10     14.30     99.00     99.00
11   5   4  6     15.0 1    257.0      2.10     14.00     99.00     99.00
11   5   4  7     15.0 1    296.0      2.10     15.40     99.00     99.00
11   5   4  8     15.0 1    299.0      0.50     17.10     99.00     99.00
11   5   4  9     15.0 1    269.0      0.50     19.40     99.00     99.00
11   5   4 10     15.0 1    284.0      0.50     21.10     99.00     99.00
11   5   4 11     15.0 1      0.0      0.00     23.30     99.00     99.00
11   5   4 12     15.0 1    316.0      0.50     25.10     99.00     99.00
11   5   4 13     15.0 1    348.0      1.00     26.60     99.00     99.00
11   5   4 14     15.0 1      5.0      1.00     27.60     99.00     99.00
11   5   4 15     15.0 1      1.0      1.50     28.30     99.00     99.00
11   5   4 16     15.0 1     12.0      2.60     28.60     99.00     99.00
11   5   4 17     15.0 1     11.0      2.60     28.00     99.00     99.00
11   5   4 18     15.0 1      8.0      2.60     27.30     99.00     99.00
11   5   4 19     15.0 1    358.0      2.60     26.10     99.00     99.00
11   5   4 20     15.0 1    340.0      1.00     24.60     99.00     99.00
11   5   4 21     15.0 1      0.0      0.00     23.10     99.00     99.00
11   5   4 22     15.0 1      0.0      0.00     21.50     99.00     99.00
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11  5  4 23    15.0 1     0.0     0.00    20.30    99.00    99.00
11  5  4 24    15.0 1    48.0     0.50    19.10    99.00    99.00
11  5  5  1    15.0 1    47.0     0.50    18.40    99.00    99.00
11  5  5  2    15.0 1   272.0     0.50    17.80    99.00    99.00
11  5  5  3    15.0 1   275.0     2.10    17.30    99.00    99.00
11  5  5  4    15.0 1   281.0     3.10    17.00    99.00    99.00
11  5  5  5    15.0 1   298.0     3.60    15.90    99.00    99.00
11  5  5  6    15.0 1   304.0     2.60    15.10    99.00    99.00
11  5  5  7    15.0 1   323.0     2.60    16.80    99.00    99.00
11  5  5  8    15.0 1   314.0     1.50    18.50    99.00    99.00
11  5  5  9    15.0 1   293.0     0.50    21.00    99.00    99.00
11  5  5 10    15.0 1     0.0     0.00    23.90    99.00    99.00
11  5  5 11    15.0 1     0.0     0.00    26.10    99.00    99.00
11  5  5 12    15.0 1     0.0     0.00    28.10    99.00    99.00
11  5  5 13    15.0 1     0.0     0.00    29.60    99.00    99.00
11  5  5 14    15.0 1   341.0     0.50    30.60    99.00    99.00
11  5  5 15    15.0 1     5.0     2.10    31.10    99.00    99.00
11  5  5 16    15.0 1     0.0     0.00    31.10    99.00    99.00
11  5  5 17    15.0 1    10.0     3.10    29.90    99.00    99.00
11  5  5 18    15.0 1     0.0     0.00    28.80    99.00    99.00
11  5  5 19    15.0 1   333.0     2.60    27.90    99.00    99.00
11  5  5 20    15.0 1   277.0     5.10    26.30    99.00    99.00
11  5  5 21    15.0 1   269.0     5.10    22.40    99.00    99.00
11  5  5 22    15.0 1   272.0     4.10    20.90    99.00    99.00
11  5  5 23    15.0 1   284.0     3.60    20.10    99.00    99.00
11  5  5 24    15.0 1   308.0     3.60    19.80    99.00    99.00
11  5  6  1    15.0 1   335.0     3.10    19.00    99.00    99.00
11  5  6  2    15.0 1   312.0     1.50    18.10    99.00    99.00
11  5  6  3    15.0 1   277.0     1.50    17.50    99.00    99.00
11  5  6  4    15.0 1   293.0     1.00    16.90    99.00    99.00
11  5  6  5    15.0 1   300.0     1.00    16.30    99.00    99.00
11  5  6  6    15.0 1   288.0     0.50    15.80    99.00    99.00
11  5  6  7    15.0 1   352.0     1.50    16.90    99.00    99.00
11  5  6  8    15.0 1     0.0     0.00    18.60    99.00    99.00
11  5  6  9    15.0 1     0.0     0.00    20.60    99.00    99.00
11  5  6 10    15.0 1     0.0     0.00    22.50    99.00    99.00
11  5  6 11    15.0 1     0.0     0.00    24.10    99.00    99.00
11  5  6 12    15.0 1     0.0     0.00    25.90    99.00    99.00
11  5  6 13    15.0 1   314.0     0.50    27.40    99.00    99.00
11  5  6 14    15.0 1   340.0     1.00    28.30    99.00    99.00
11  5  6 15    15.0 1   348.0     2.60    28.80    99.00    99.00
11  5  6 16    15.0 1     0.0     0.00    28.80    99.00    99.00
11  5  6 17    15.0 1    12.0     3.10    28.00    99.00    99.00
11  5  6 18    15.0 1     0.0     0.00    27.10    99.00    99.00
11  5  6 19    15.0 1   354.0     3.60    26.30    99.00    99.00
11  5  6 20    15.0 1   323.0     4.10    24.80    99.00    99.00
11  5  6 21    15.0 1   288.0     4.10    22.10    99.00    99.00
11  5  6 22    15.0 1   281.0     3.60    20.40    99.00    99.00
11  5  6 23    15.0 1   301.0     3.60    19.30    99.00    99.00
11  5  6 24    15.0 1   318.0     3.60    18.10    99.00    99.00
11  5  7  1    15.0 1   324.0     3.10    17.10    99.00    99.00
11  5  7  2    15.0 1   328.0     2.60    16.50    99.00    99.00
11  5  7  3    15.0 1   322.0     2.10    16.00    99.00    99.00
11  5  7  4    15.0 1   321.0     1.50    15.40    99.00    99.00
11  5  7  5    15.0 1   343.0     1.00    14.80    99.00    99.00
11  5  7  6    15.0 1   357.0     1.00    14.40    99.00    99.00
11  5  7  7    15.0 1     5.0     2.10    15.10    99.00    99.00
11  5  7  8    15.0 1   342.0     1.00    16.30    99.00    99.00
11  5  7  9    15.0 1     0.0     0.00    17.80    99.00    99.00
11  5  7 10    15.0 1     0.0     0.00    19.40    99.00    99.00
11  5  7 11    15.0 1     0.0     0.00    21.10    99.00    99.00
11  5  7 12    15.0 1   296.0     0.50    22.50    99.00    99.00
11  5  7 13    15.0 1   327.0     1.00    23.60    99.00    99.00
11  5  7 14    15.0 1   354.0     2.10    24.50    99.00    99.00
11  5  7 15    15.0 1   359.0     3.10    25.00    99.00    99.00
11  5  7 16    15.0 1   356.0     4.10    24.90    99.00    99.00
11  5  7 17    15.0 1     0.0     0.00    24.10    99.00    99.00
11  5  7 18    15.0 1   359.0     3.60    22.60    99.00    99.00
11  5  7 19    15.0 1   326.0     4.10    20.60    99.00    99.00
11  5  7 20    15.0 1   319.0     4.10    18.60    99.00    99.00
11  5  7 21    15.0 1   311.0     3.60    17.40    99.00    99.00
11  5  7 22    15.0 1   288.0     3.60    16.40    99.00    99.00
11  5  7 23    15.0 1   276.0     3.60    15.40    99.00    99.00
11  5  7 24    15.0 1   283.0     3.10    14.50    99.00    99.00
11  5  8  1    15.0 1   283.0     3.10    14.10    99.00    99.00
11  5  8  2    15.0 1   278.0     3.10    13.90    99.00    99.00
11  5  8  3    15.0 1   277.0     3.10    13.80    99.00    99.00
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11  5  8  4    15.0 1   289.0     3.10    13.60    99.00    99.00
11  5  8  5    15.0 1   297.0     3.10    13.30    99.00    99.00
11  5  8  6    15.0 1   296.0     3.10    13.00    99.00    99.00
11  5  8  7    15.0 1   309.0     3.60    12.90    99.00    99.00
11  5  8  8    15.0 1   316.0     4.60    12.80    99.00    99.00
11  5  8  9    15.0 1   320.0     3.10    13.10    99.00    99.00
11  5  8 10    15.0 1   334.0     1.50    14.40    99.00    99.00
11  5  8 11    15.0 1   346.0     1.00    16.00    99.00    99.00
11  5  8 12    15.0 1     0.0     0.00    17.10    99.00    99.00
11  5  8 13    15.0 1     0.0     0.00    17.60    99.00    99.00
11  5  8 14    15.0 1     0.0     0.00    18.00    99.00    99.00
11  5  8 15    15.0 1   356.0     5.10    18.10    99.00    99.00
11  5  8 16    15.0 1   346.0     5.70    17.60    99.00    99.00
11  5  8 17    15.0 1   348.0     6.20    16.90    99.00    99.00
11  5  8 18    15.0 1   352.0     4.10    15.80    99.00    99.00
11  5  8 19    15.0 1   336.0     4.60    14.40    99.00    99.00
11  5  8 20    15.0 1   319.0     4.10    13.10    99.00    99.00
11  5  8 21    15.0 1   315.0     3.10    12.60    99.00    99.00
11  5  8 22    15.0 1   312.0     2.60    12.10    99.00    99.00
11  5  8 23    15.0 1   301.0     2.60    11.60    99.00    99.00
11  5  8 24    15.0 1   292.0     2.60    11.50    99.00    99.00
11  5  9  1    15.0 1   292.0     2.60    10.80    99.00    99.00
11  5  9  2    15.0 1   295.0     3.10    10.00    99.00    99.00
11  5  9  3    15.0 1   293.0     3.10     9.60    99.00    99.00
11  5  9  4    15.0 1   305.0     3.10    10.00    99.00    99.00
11  5  9  5    15.0 1   299.0     2.60    10.30    99.00    99.00
11  5  9  6    15.0 1   293.0     2.10    10.50    99.00    99.00
11  5  9  7    15.0 1   306.0     3.10    11.00    99.00    99.00
11  5  9  8    15.0 1   326.0     3.10    12.30    99.00    99.00
11  5  9  9    15.0 1   335.0     2.60    13.50    99.00    99.00
11  5  9 10    15.0 1   326.0     2.10    14.80    99.00    99.00
11  5  9 11    15.0 1   331.0     2.10    16.10    99.00    99.00
11  5  9 12    15.0 1   326.0     2.60    17.40    99.00    99.00
11  5  9 13    15.0 1   333.0     3.60    18.50    99.00    99.00
11  5  9 14    15.0 1   336.0     5.10    19.30    99.00    99.00
11  5  9 15    15.0 1   342.0     5.70    19.60    99.00    99.00
11  5  9 16    15.0 1   340.0     6.20    19.90    99.00    99.00
11  5  9 17    15.0 1   338.0     4.60    19.60    99.00    99.00
11  5  9 18    15.0 1   344.0     2.60    19.00    99.00    99.00
11  5  9 19    15.0 1   338.0     2.10    18.60    99.00    99.00
11  5  9 20    15.0 1   307.0     1.50    17.60    99.00    99.00
11  5  9 21    15.0 1   273.0     1.50    16.80    99.00    99.00
11  5  9 22    15.0 1   270.0     4.10    14.90    99.00    99.00
11  5  9 23    15.0 1   289.0     4.60    13.30    99.00    99.00
11  5  9 24    15.0 1   303.0     4.10    12.40    99.00    99.00
11  5 10  1    15.0 1   301.0     3.60    11.90    99.00    99.00
11  5 10  2    15.0 1   295.0     3.60    11.40    99.00    99.00
11  5 10  3    15.0 1   286.0     3.60    10.60    99.00    99.00
11  5 10  4    15.0 1   288.0     3.10    10.00    99.00    99.00
11  5 10  5    15.0 1   296.0     2.10     9.50    99.00    99.00
11  5 10  6    15.0 1   306.0     1.50     9.30    99.00    99.00
11  5 10  7    15.0 1   340.0     2.60    11.60    99.00    99.00
11  5 10  8    15.0 1   352.0     2.60    14.10    99.00    99.00
11  5 10  9    15.0 1   354.0     1.50    15.80    99.00    99.00
11  5 10 10    15.0 1   333.0     0.50    17.40    99.00    99.00
11  5 10 11    15.0 1   315.0     0.50    18.90    99.00    99.00
11  5 10 12    15.0 1   320.0     1.00    20.10    99.00    99.00
11  5 10 13    15.0 1   328.0     1.50    21.40    99.00    99.00
11  5 10 14    15.0 1   338.0     2.10    22.10    99.00    99.00
11  5 10 15    15.0 1     2.0     2.10    22.60    99.00    99.00
11  5 10 16    15.0 1     7.0     3.10    22.60    99.00    99.00
11  5 10 17    15.0 1     7.0     3.10    22.50    99.00    99.00
11  5 10 18    15.0 1    25.0     2.60    21.90    99.00    99.00
11  5 10 19    15.0 1     6.0     2.60    21.10    99.00    99.00
11  5 10 20    15.0 1   342.0     0.50    20.00    99.00    99.00
11  5 10 21    15.0 1   243.0     1.50    18.40    99.00    99.00
11  5 10 22    15.0 1   238.0     3.10    16.50    99.00    99.00
11  5 10 23    15.0 1   233.0     2.10    15.50    99.00    99.00
11  5 10 24    15.0 1   185.0     1.50    14.90    99.00    99.00
11  5 11  1    15.0 1   137.0     1.00    14.30    99.00    99.00
11  5 11  2    15.0 1   197.0     0.50    13.60    99.00    99.00
11  5 11  3    15.0 1   296.0     1.50    13.10    99.00    99.00
11  5 11  4    15.0 1   325.0     2.10    12.60    99.00    99.00
11  5 11  5    15.0 1   332.0     2.10    12.10    99.00    99.00
11  5 11  6    15.0 1   318.0     1.00    11.90    99.00    99.00
11  5 11  7    15.0 1   347.0     2.10    13.40    99.00    99.00
11  5 11  8    15.0 1     0.0     0.00    15.40    99.00    99.00
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11   5 11   9     15.0 1     0.0     0.00    17.10    99.00    99.00
11   5 11  10     15.0 1     0.0     0.00    18.90    99.00    99.00
11   5 11  11     15.0 1     0.0     0.00    20.60    99.00    99.00
11   5 11  12     15.0 1     0.0     0.00    22.10    99.00    99.00
11   5 11  13     15.0 1     0.0     0.00    23.30    99.00    99.00
11   5 11  14     15.0 1   347.0     0.50    24.30    99.00    99.00
11   5 11  15     15.0 1    15.0     1.50    25.00    99.00    99.00
11   5 11  16     15.0 1    12.0     2.60    25.30    99.00    99.00
11   5 11  17     15.0 1     6.0     3.60    25.00    99.00    99.00
11   5 11  18     15.0 1    12.0     2.60    24.30    99.00    99.00
11   5 11  19     15.0 1     0.0     0.00    23.60    99.00    99.00
11   5 11  20     15.0 1   314.0     2.60    22.50    99.00    99.00
11   5 11  21     15.0 1   266.0     5.10    19.60    99.00    99.00
11   5 11  22     15.0 1   274.0     5.10    17.10    99.00    99.00
11   5 11  23     15.0 1   292.0     3.60    16.40    99.00    99.00
11   5 11  24     15.0 1   318.0     3.60    16.10    99.00    99.00
11   5 12   1     15.0 1   346.0     3.60    15.40    99.00    99.00
11   5 12   2     15.0 1     0.0     0.00    14.60    99.00    99.00
11   5 12   3     15.0 1    12.0     2.10    14.10    99.00    99.00
11   5 12   4     15.0 1    22.0     1.50    13.60    99.00    99.00
11   5 12   5     15.0 1    19.0     1.00    13.10    99.00    99.00
11   5 12   6     15.0 1     0.0     0.00    12.80    99.00    99.00
11   5 12   7     15.0 1     9.0     1.00    13.80    99.00    99.00
11   5 12   8     15.0 1     0.0     0.00    15.60    99.00    99.00
11   5 12   9     15.0 1     0.0     0.00    17.50    99.00    99.00
11   5 12  10     15.0 1     0.0     0.00    19.60    99.00    99.00
11   5 12  11     15.0 1     0.0     0.00    21.60    99.00    99.00
11   5 12  12     15.0 1   332.0     0.50    23.10    99.00    99.00
11   5 12  13     15.0 1   335.0     0.50    24.30    99.00    99.00
11   5 12  14     15.0 1   336.0     1.00    25.10    99.00    99.00
11   5 12  15     15.0 1   354.0     1.50    25.80    99.00    99.00
11   5 12  16     15.0 1     5.0     2.10    26.10    99.00    99.00
11   5 12  17     15.0 1    13.0     3.10    26.00    99.00    99.00
11   5 12  18     15.0 1     7.0     2.60    25.50    99.00    99.00
11   5 12  19     15.0 1     0.0     0.00    24.60    99.00    99.00
11   5 12  20     15.0 1   352.0     3.10    23.40    99.00    99.00
11   5 12  21     15.0 1   329.0     3.60    22.10    99.00    99.00
11   5 12  22     15.0 1   302.0     4.10    20.30    99.00    99.00
11   5 12  23     15.0 1   294.0     3.60    18.80    99.00    99.00
11   5 12  24     15.0 1   297.0     3.60    18.00    99.00    99.00
11   5 13   1     15.0 1   328.0     3.10    17.40    99.00    99.00
11   5 13   2     15.0 1     0.0     0.00    16.60    99.00    99.00
11   5 13   3     15.0 1    10.0     2.60    15.90    99.00    99.00
11   5 13   4     15.0 1     0.0     0.00    15.10    99.00    99.00
11   5 13   5     15.0 1   358.0     2.10    14.50    99.00    99.00
11   5 13   6     15.0 1   347.0     1.50    14.00    99.00    99.00
11   5 13   7     15.0 1   354.0     2.10    14.30    99.00    99.00
11   5 13   8     15.0 1   349.0     1.50    15.10    99.00    99.00
11   5 13   9     15.0 1   344.0     1.00    16.50    99.00    99.00
11   5 13  10     15.0 1   348.0     0.50    18.00    99.00    99.00
11   5 13  11     15.0 1   348.0     1.00    19.90    99.00    99.00
11   5 13  12     15.0 1   336.0     1.50    21.60    99.00    99.00
11   5 13  13     15.0 1     0.0     0.00    23.10    99.00    99.00
11   5 13  14     15.0 1    19.0     3.10    23.80    99.00    99.00
11   5 13  15     15.0 1    25.0     3.10    24.00    99.00    99.00
11   5 13  16     15.0 1    32.0     3.10    24.10    99.00    99.00
11   5 13  17     15.0 1    32.0     2.10    23.80    99.00    99.00
11   5 13  18     15.0 1   352.0     2.10    23.50    99.00    99.00
11   5 13  19     15.0 1   348.0     3.60    22.40    99.00    99.00
11   5 13  20     15.0 1   341.0     3.60    21.10    99.00    99.00
11   5 13  21     15.0 1   289.0     4.10    20.10    99.00    99.00
11   5 13  22     15.0 1   282.0     4.10    17.80    99.00    99.00
11   5 13  23     15.0 1   297.0     3.10    16.30    99.00    99.00
11   5 13  24     15.0 1   327.0     3.10    15.40    99.00    99.00
11   5 14   1     15.0 1   328.0     2.60    14.60    99.00    99.00
11   5 14   2     15.0 1   325.0     2.10    14.00    99.00    99.00
11   5 14   3     15.0 1   324.0     1.50    13.50    99.00    99.00
11   5 14   4     15.0 1   338.0     1.00    13.00    99.00    99.00
11   5 14   5     15.0 1     0.0     0.00    12.60    99.00    99.00
11   5 14   6     15.0 1    30.0     0.50    12.30    99.00    99.00
11   5 14   7     15.0 1   352.0     1.00    12.60    99.00    99.00
11   5 14   8     15.0 1     0.0     0.00    13.60    99.00    99.00
11   5 14   9     15.0 1     0.0     0.00    15.10    99.00    99.00
11   5 14  10     15.0 1     0.0     0.00    16.60    99.00    99.00
11   5 14  11     15.0 1     0.0     0.00    17.90    99.00    99.00
11   5 14  12     15.0 1   311.0     0.50    19.10    99.00    99.00
11   5 14  13     15.0 1   322.0     1.50    20.10    99.00    99.00
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11   5 14 14     15.0 1   320.0      2.10     21.00     99.00     99.00
11   5 14 15     15.0 1   311.0      3.10     21.40     99.00     99.00
11   5 14 16     15.0 1   301.0      4.60     21.50     99.00     99.00
11   5 14 17     15.0 1   294.0      5.70     20.60     99.00     99.00
11   5 14 18     15.0 1   283.0      5.10     18.50     99.00     99.00
11   5 14 19     15.0 1   278.0      4.60     15.90     99.00     99.00
11   5 14 20     15.0 1   275.0      4.60     14.30     99.00     99.00
11   5 14 21     15.0 1   270.0      4.10     13.00     99.00     99.00
11   5 14 22     15.0 1   275.0      2.60     12.40     99.00     99.00
11   5 14 23     15.0 1   333.0      0.50     12.00     99.00     99.00
11   5 14 24     15.0 1    64.0      2.10     11.80     99.00     99.00
11   5 15  1     15.0 1    90.0      2.10     11.80     99.00     99.00
11   5 15  2     15.0 1   101.0      2.10     11.60     99.00     99.00
11   5 15  3     15.0 1   115.0      2.60     11.60     99.00     99.00
11   5 15  4     15.0 1   131.0      2.60     11.50     99.00     99.00
11   5 15  5     15.0 1   150.0      2.60     11.30     99.00     99.00
11   5 15  6     15.0 1   162.0      3.10     11.10     99.00     99.00
11   5 15  7     15.0 1   191.0      3.60     12.10     99.00     99.00
11   5 15  8     15.0 1   245.0      2.60     13.80     99.00     99.00
11   5 15  9     15.0 1   261.0      3.10     15.30     99.00     99.00
11   5 15 10     15.0 1   274.0      3.10     16.10     99.00     99.00
11   5 15 11     15.0 1   266.0      3.60     17.10     99.00     99.00
11   5 15 12     15.0 1   263.0      4.10     17.60     99.00     99.00
11   5 15 13     15.0 1   264.0      4.10     18.00     99.00     99.00
11   5 15 14     15.0 1   262.0      4.60     18.40     99.00     99.00
11   5 15 15     15.0 1   262.0      5.10     18.50     99.00     99.00
11   5 15 16     15.0 1   283.0      3.60     17.60     99.00     99.00
11   5 15 17     15.0 1   288.0      4.60     17.60     99.00     99.00
11   5 15 18     15.0 1   289.0      3.10     16.50     99.00     99.00
11   5 15 19     15.0 1   295.0      4.60     14.60     99.00     99.00
11   5 15 20     15.0 1   277.0      4.60     12.50     99.00     99.00
11   5 15 21     15.0 1   283.0      4.60     11.00     99.00     99.00
11   5 15 22     15.0 1   269.0      4.10     10.00     99.00     99.00
11   5 15 23     15.0 1   276.0      3.10      9.10     99.00     99.00
11   5 15 24     15.0 1   292.0      2.60      9.00     99.00     99.00
11   5 16  1     15.0 1   299.0      2.60      9.00     99.00     99.00
11   5 16  2     15.0 1   294.0      2.10      8.80     99.00     99.00
11   5 16  3     15.0 1   266.0      2.10      8.30     99.00     99.00
11   5 16  4     15.0 1   257.0      2.10      7.80     99.00     99.00
11   5 16  5     15.0 1   261.0      1.50      7.60     99.00     99.00
11   5 16  6     15.0 1   258.0      1.50      7.60     99.00     99.00
11   5 16  7     15.0 1   276.0      1.00      8.10     99.00     99.00
11   5 16  8     15.0 1   237.0      0.50      9.30     99.00     99.00
11   5 16  9     15.0 1   200.0      0.50     10.40     99.00     99.00
11   5 16 10     15.0 1   191.0      0.50     11.90     99.00     99.00
11   5 16 11     15.0 1     0.0      0.00     13.10     99.00     99.00
11   5 16 12     15.0 1     0.0      0.00     14.50     99.00     99.00
11   5 16 13     15.0 1     0.0      0.00     15.60     99.00     99.00
11   5 16 14     15.0 1     0.0      0.00     16.80     99.00     99.00
11   5 16 15     15.0 1     0.0      0.00     17.60     99.00     99.00
11   5 16 16     15.0 1   248.0      4.60     17.10     99.00     99.00
11   5 16 17     15.0 1   262.0      4.10     15.00     99.00     99.00
11   5 16 18     15.0 1   317.0      0.50     14.10     99.00     99.00
11   5 16 19     15.0 1    47.0      1.00     13.80     99.00     99.00
11   5 16 20     15.0 1    79.0      2.10     13.40     99.00     99.00
11   5 16 21     15.0 1    86.0      2.60     13.00     99.00     99.00
11   5 16 22     15.0 1    95.0      3.10     12.60     99.00     99.00
11   5 16 23     15.0 1   105.0      2.60     12.40     99.00     99.00
11   5 16 24     15.0 1   111.0      2.60     12.30     99.00     99.00
11   5 17  1     15.0 1   125.0      2.60     12.30     99.00     99.00
11   5 17  2     15.0 1   129.0      2.60     12.30     99.00     99.00
11   5 17  3     15.0 1   130.0      2.60     12.30     99.00     99.00
11   5 17  4     15.0 1   131.0      2.60     12.30     99.00     99.00
11   5 17  5     15.0 1   126.0      2.60     12.30     99.00     99.00
11   5 17  6     15.0 1   125.0      2.60     12.30     99.00     99.00
11   5 17  7     15.0 1   121.0      1.50     13.10     99.00     99.00
11   5 17  8     15.0 1     0.0      0.00     14.90     99.00     99.00
11   5 17  9     15.0 1     0.0      0.00     16.60     99.00     99.00
11   5 17 10     15.0 1   310.0      0.50     17.30     99.00     99.00
11   5 17 11     15.0 1     0.0      0.00     18.30     99.00     99.00
11   5 17 12     15.0 1   342.0      0.50     19.30     99.00     99.00
11   5 17 13     15.0 1   294.0      1.50     20.40     99.00     99.00
11   5 17 14     15.0 1   269.0      4.60     20.90     99.00     99.00
11   5 17 15     15.0 1   273.0      7.20     20.80     99.00     99.00
11   5 17 16     15.0 1   265.0      7.70     19.90     99.00     99.00
11   5 17 17     15.0 1   258.0      7.20     18.80     99.00     99.00
11   5 17 18     15.0 1   264.0      5.10     17.40     99.00     99.00
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11   5 17 19     15.0 1   270.0      4.60     15.60     99.00     99.00
11   5 17 20     15.0 1   267.0      4.10     14.10     99.00     99.00
11   5 17 21     15.0 1   265.0      3.10     13.10     99.00     99.00
11   5 17 22     15.0 1   244.0      3.10     12.30     99.00     99.00
11   5 17 23     15.0 1   237.0      3.10     11.90     99.00     99.00
11   5 17 24     15.0 1   251.0      3.10     11.80     99.00     99.00
11   5 18  1     15.0 1   266.0      3.10     11.50     99.00     99.00
11   5 18  2     15.0 1   283.0      2.60     10.90     99.00     99.00
11   5 18  3     15.0 1   304.0      2.60     10.40     99.00     99.00
11   5 18  4     15.0 1   312.0      3.10     10.00     99.00     99.00
11   5 18  5     15.0 1   297.0      3.10      9.80     99.00     99.00
11   5 18  6     15.0 1   296.0      3.60      9.60     99.00     99.00
11   5 18  7     15.0 1   323.0      5.10     11.10     99.00     99.00
11   5 18  8     15.0 1   318.0      4.60     12.10     99.00     99.00
11   5 18  9     15.0 1   333.0      4.10     12.60     99.00     99.00
11   5 18 10     15.0 1   335.0      4.60     13.50     99.00     99.00
11   5 18 11     15.0 1   331.0      5.70     13.90     99.00     99.00
11   5 18 12     15.0 1   331.0      6.20     14.40     99.00     99.00
11   5 18 13     15.0 1   338.0      5.70     15.40     99.00     99.00
11   5 18 14     15.0 1   342.0      5.70     16.60     99.00     99.00
11   5 18 15     15.0 1   355.0      6.20     17.50     99.00     99.00
11   5 18 16     15.0 1     5.0      6.20     17.60     99.00     99.00
11   5 18 17     15.0 1     0.0      0.00     17.90     99.00     99.00
11   5 18 18     15.0 1    27.0      2.60     17.60     99.00     99.00
11   5 18 19     15.0 1    81.0      3.60     16.10     99.00     99.00
11   5 18 20     15.0 1   103.0      3.60     14.30     99.00     99.00
11   5 18 21     15.0 1   151.0      2.60     13.60     99.00     99.00
11   5 18 22     15.0 1   196.0      1.50     13.30     99.00     99.00
11   5 18 23     15.0 1     0.0      0.00     12.80     99.00     99.00
11   5 18 24     15.0 1     0.0      0.00     12.10     99.00     99.00
11   5 19  1     15.0 1   249.0      1.00     11.60     99.00     99.00
11   5 19  2     15.0 1   259.0      1.50     11.10     99.00     99.00
11   5 19  3     15.0 1   274.0      2.10     10.60     99.00     99.00
11   5 19  4     15.0 1   281.0      2.60     10.10     99.00     99.00
11   5 19  5     15.0 1   279.0      2.10      9.60     99.00     99.00
11   5 19  6     15.0 1   282.0      1.50      9.40     99.00     99.00
11   5 19  7     15.0 1   323.0      1.00     11.60     99.00     99.00
11   5 19  8     15.0 1   312.0      0.50     13.60     99.00     99.00
11   5 19  9     15.0 1   296.0      0.50     15.40     99.00     99.00
11   5 19 10     15.0 1   302.0      0.50     17.10     99.00     99.00
11   5 19 11     15.0 1   315.0      0.50     18.60     99.00     99.00
11   5 19 12     15.0 1   317.0      1.00     20.10     99.00     99.00
11   5 19 13     15.0 1   328.0      1.50     21.30     99.00     99.00
11   5 19 14     15.0 1   341.0      2.10     22.10     99.00     99.00
11   5 19 15     15.0 1   348.0      2.60     22.80     99.00     99.00
11   5 19 16     15.0 1     0.0      0.00     23.10     99.00     99.00
11   5 19 17     15.0 1     8.0      3.60     23.10     99.00     99.00
11   5 19 18     15.0 1    12.0      2.60     22.60     99.00     99.00
11   5 19 19     15.0 1     5.0      2.10     21.90     99.00     99.00
11   5 19 20     15.0 1   300.0      0.50     20.60     99.00     99.00
11   5 19 21     15.0 1   222.0      2.60     19.00     99.00     99.00
11   5 19 22     15.0 1   245.0      2.60     17.10     99.00     99.00
11   5 19 23     15.0 1   288.0      1.50     16.00     99.00     99.00
11   5 19 24     15.0 1   325.0      2.10     15.30     99.00     99.00
11   5 20  1     15.0 1   334.0      2.60     14.60     99.00     99.00
11   5 20  2     15.0 1   335.0      2.60     14.10     99.00     99.00
11   5 20  3     15.0 1   339.0      1.50     13.60     99.00     99.00
11   5 20  4     15.0 1    17.0      1.00     13.00     99.00     99.00
11   5 20  5     15.0 1    34.0      0.50     12.50     99.00     99.00
11   5 20  6     15.0 1   352.0      0.50     12.30     99.00     99.00
11   5 20  7     15.0 1   347.0      1.50     13.80     99.00     99.00
11   5 20  8     15.0 1     0.0      0.00     15.50     99.00     99.00
11   5 20  9     15.0 1     0.0      0.00     17.10     99.00     99.00
11   5 20 10     15.0 1     0.0      0.00     19.00     99.00     99.00
11   5 20 11     15.0 1     0.0      0.00     20.80     99.00     99.00
11   5 20 12     15.0 1     0.0      0.00     22.10     99.00     99.00
11   5 20 13     15.0 1     0.0      0.00     23.10     99.00     99.00
11   5 20 14     15.0 1   317.0      0.50     24.10     99.00     99.00
11   5 20 15     15.0 1   350.0      1.50     24.80     99.00     99.00
11   5 20 16     15.0 1     9.0      2.10     25.30     99.00     99.00
11   5 20 17     15.0 1    10.0      3.10     25.30     99.00     99.00
11   5 20 18     15.0 1    15.0      3.10     24.60     99.00     99.00
11   5 20 19     15.0 1   354.0      3.60     23.80     99.00     99.00
11   5 20 20     15.0 1   316.0      3.60     22.30     99.00     99.00
11   5 20 21     15.0 1   299.0      3.10     20.60     99.00     99.00
11   5 20 22     15.0 1   289.0      3.60     19.50     99.00     99.00
11   5 20 23     15.0 1   288.0      3.60     18.30     99.00     99.00
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11   5 20 24     15.0 1   316.0      2.60     17.60     99.00     99.00
11   5 21  1     15.0 1   330.0      2.60     17.10     99.00     99.00
11   5 21  2     15.0 1   342.0      2.10     16.90     99.00     99.00
11   5 21  3     15.0 1   346.0      2.10     16.60     99.00     99.00
11   5 21  4     15.0 1     6.0      1.00     16.10     99.00     99.00
11   5 21  5     15.0 1     0.0      0.00     15.80     99.00     99.00
11   5 21  6     15.0 1   265.0      1.00     15.60     99.00     99.00
11   5 21  7     15.0 1   340.0      1.00     15.60     99.00     99.00
11   5 21  8     15.0 1     0.0      0.00     17.00     99.00     99.00
11   5 21  9     15.0 1     0.0      0.00     18.40     99.00     99.00
11   5 21 10     15.0 1     0.0      0.00     20.00     99.00     99.00
11   5 21 11     15.0 1     0.0      0.00     21.40     99.00     99.00
11   5 21 12     15.0 1     0.0      0.00     22.50     99.00     99.00
11   5 21 13     15.0 1   352.0      1.00     23.50     99.00     99.00
11   5 21 14     15.0 1   347.0      1.50     24.10     99.00     99.00
11   5 21 15     15.0 1   355.0      2.60     24.60     99.00     99.00
11   5 21 16     15.0 1     3.0      3.10     24.80     99.00     99.00
11   5 21 17     15.0 1   353.0      4.10     24.60     99.00     99.00
11   5 21 18     15.0 1   346.0      3.10     23.90     99.00     99.00
11   5 21 19     15.0 1   349.0      3.60     22.60     99.00     99.00
11   5 21 20     15.0 1   337.0      3.60     21.40     99.00     99.00
11   5 21 21     15.0 1   321.0      3.60     19.80     99.00     99.00
11   5 21 22     15.0 1   278.0      3.60     18.40     99.00     99.00
11   5 21 23     15.0 1   278.0      3.60     17.10     99.00     99.00
11   5 21 24     15.0 1   303.0      3.10     16.10     99.00     99.00
11   5 22  1     15.0 1   313.0      2.60     15.40     99.00     99.00
11   5 22  2     15.0 1   332.0      2.10     14.90     99.00     99.00
11   5 22  3     15.0 1   332.0      1.00     14.50     99.00     99.00
11   5 22  4     15.0 1   310.0      0.50     14.10     99.00     99.00
11   5 22  5     15.0 1   278.0      0.50     13.60     99.00     99.00
11   5 22  6     15.0 1     0.0      0.00     13.30     99.00     99.00
11   5 22  7     15.0 1     0.0      0.00     14.80     99.00     99.00
11   5 22  8     15.0 1     0.0      0.00     16.10     99.00     99.00
11   5 22  9     15.0 1     0.0      0.00     17.60     99.00     99.00
11   5 22 10     15.0 1     0.0      0.00     19.30     99.00     99.00
11   5 22 11     15.0 1     0.0      0.00     20.80     99.00     99.00
11   5 22 12     15.0 1   315.0      0.50     22.10     99.00     99.00
11   5 22 13     15.0 1   328.0      1.50     23.40     99.00     99.00
11   5 22 14     15.0 1   342.0      2.60     24.10     99.00     99.00
11   5 22 15     15.0 1   338.0      3.60     24.60     99.00     99.00
11   5 22 16     15.0 1   346.0      4.60     24.60     99.00     99.00
11   5 22 17     15.0 1     4.0      5.10     24.40     99.00     99.00
11   5 22 18     15.0 1   346.0      3.60     23.00     99.00     99.00
11   5 22 19     15.0 1   336.0      3.60     21.80     99.00     99.00
11   5 22 20     15.0 1   315.0      4.10     20.60     99.00     99.00
11   5 22 21     15.0 1   281.0      5.10     18.60     99.00     99.00
11   5 22 22     15.0 1   294.0      5.70     16.10     99.00     99.00
11   5 22 23     15.0 1   290.0      4.10     14.80     99.00     99.00
11   5 22 24     15.0 1   294.0      3.10     13.90     99.00     99.00
11   5 23  1     15.0 1   305.0      2.60     13.30     99.00     99.00
11   5 23  2     15.0 1   271.0      2.10     13.00     99.00     99.00
11   5 23  3     15.0 1   262.0      2.60     12.60     99.00     99.00
11   5 23  4     15.0 1   274.0      3.10     11.90     99.00     99.00
11   5 23  5     15.0 1   281.0      3.10     11.30     99.00     99.00
11   5 23  6     15.0 1   279.0      3.10     11.30     99.00     99.00
11   5 23  7     15.0 1   305.0      3.10     11.80     99.00     99.00
11   5 23  8     15.0 1   320.0      3.10     12.00     99.00     99.00
11   5 23  9     15.0 1   318.0      3.10     12.10     99.00     99.00
11   5 23 10     15.0 1   334.0      2.60     12.50     99.00     99.00
11   5 23 11     15.0 1   345.0      1.50     13.80     99.00     99.00
11   5 23 12     15.0 1   332.0      1.50     14.40     99.00     99.00
11   5 23 13     15.0 1   343.0      1.50     15.10     99.00     99.00
11   5 23 14     15.0 1    15.0      2.10     16.30     99.00     99.00
11   5 23 15     15.0 1     6.0      3.10     17.30     99.00     99.00
11   5 23 16     15.0 1    10.0      4.60     17.60     99.00     99.00
11   5 23 17     15.0 1     0.0      0.00     17.40     99.00     99.00
11   5 23 18     15.0 1    19.0      4.10     16.90     99.00     99.00
11   5 23 19     15.0 1    52.0      3.60     15.40     99.00     99.00
11   5 23 20     15.0 1    94.0      3.10     13.80     99.00     99.00
11   5 23 21     15.0 1   124.0      2.60     13.10     99.00     99.00
11   5 23 22     15.0 1   149.0      3.10     12.60     99.00     99.00
11   5 23 23     15.0 1   161.0      2.60     12.60     99.00     99.00
11   5 23 24     15.0 1   154.0      1.50     12.40     99.00     99.00
11   5 24  1     15.0 1   116.0      1.00     11.90     99.00     99.00
11   5 24  2     15.0 1   112.0      1.00     11.10     99.00     99.00
11   5 24  3     15.0 1   111.0      1.50     10.60     99.00     99.00
11   5 24  4     15.0 1   124.0      1.00     10.10     99.00     99.00
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11  5 24  5    15.0 1   121.0     0.50     9.90    99.00    99.00
11  5 24  6    15.0 1   127.0     0.50     9.90    99.00    99.00
11  5 24  7    15.0 1   165.0     0.50    12.60    99.00    99.00
11  5 24  8    15.0 1   181.0     0.50    14.40    99.00    99.00
11  5 24  9    15.0 1   168.0     0.50    15.90    99.00    99.00
11  5 24 10    15.0 1     0.0     0.00    17.80    99.00    99.00
11  5 24 11    15.0 1     0.0     0.00    19.40    99.00    99.00
11  5 24 12    15.0 1     0.0     0.00    20.90    99.00    99.00
11  5 24 13    15.0 1   288.0     0.50    22.30    99.00    99.00
11  5 24 14    15.0 1   314.0     1.00    23.30    99.00    99.00
11  5 24 15    15.0 1   344.0     2.10    24.00    99.00    99.00
11  5 24 16    15.0 1     2.0     2.60    24.10    99.00    99.00
11  5 24 17    15.0 1     9.0     3.10    24.10    99.00    99.00
11  5 24 18    15.0 1    29.0     2.60    23.30    99.00    99.00
11  5 24 19    15.0 1    44.0     2.60    22.60    99.00    99.00
11  5 24 20    15.0 1    58.0     1.50    21.40    99.00    99.00
11  5 24 21    15.0 1   170.0     0.50    20.00    99.00    99.00
11  5 24 22    15.0 1   252.0     3.10    18.00    99.00    99.00
11  5 24 23    15.0 1   263.0     3.10    16.40    99.00    99.00
11  5 24 24    15.0 1   256.0     2.10    15.90    99.00    99.00
11  5 25  1    15.0 1   303.0     2.60    15.80    99.00    99.00
11  5 25  2    15.0 1   333.0     3.10    15.30    99.00    99.00
11  5 25  3    15.0 1   343.0     3.10    14.60    99.00    99.00
11  5 25  4    15.0 1   354.0     2.10    14.40    99.00    99.00
11  5 25  5    15.0 1   347.0     1.00    14.10    99.00    99.00
11  5 25  6    15.0 1    10.0     0.50    14.00    99.00    99.00
11  5 25  7    15.0 1    20.0     1.00    14.10    99.00    99.00
11  5 25  8    15.0 1    24.0     1.00    15.10    99.00    99.00
11  5 25  9    15.0 1     0.0     0.00    16.60    99.00    99.00
11  5 25 10    15.0 1     0.0     0.00    18.10    99.00    99.00
11  5 25 11    15.0 1     0.0     0.00    19.60    99.00    99.00
11  5 25 12    15.0 1   337.0     0.50    21.10    99.00    99.00
11  5 25 13    15.0 1   336.0     1.00    22.10    99.00    99.00
11  5 25 14    15.0 1   337.0     1.50    22.90    99.00    99.00
11  5 25 15    15.0 1   341.0     1.50    23.50    99.00    99.00
11  5 25 16    15.0 1   316.0     2.60    24.10    99.00    99.00
11  5 25 17    15.0 1   299.0     3.60    24.00    99.00    99.00
11  5 25 18    15.0 1   293.0     3.10    23.10    99.00    99.00
11  5 25 19    15.0 1   280.0     5.10    20.30    99.00    99.00
11  5 25 20    15.0 1   294.0     5.10    17.60    99.00    99.00
11  5 25 21    15.0 1   298.0     4.10    16.00    99.00    99.00
11  5 25 22    15.0 1   303.0     3.60    14.80    99.00    99.00
11  5 25 23    15.0 1   302.0     3.10    13.60    99.00    99.00
11  5 25 24    15.0 1   295.0     3.10    12.60    99.00    99.00
11  5 26  1    15.0 1   279.0     2.60    11.90    99.00    99.00
11  5 26  2    15.0 1   279.0     2.60    11.30    99.00    99.00
11  5 26  3    15.0 1   278.0     2.10    10.80    99.00    99.00
11  5 26  4    15.0 1   276.0     1.50    10.40    99.00    99.00
11  5 26  5    15.0 1   279.0     0.50    10.00    99.00    99.00
11  5 26  6    15.0 1   278.0     0.50     9.90    99.00    99.00
11  5 26  7    15.0 1   350.0     0.50    11.40    99.00    99.00
11  5 26  8    15.0 1     0.0     0.00    12.90    99.00    99.00
11  5 26  9    15.0 1     0.0     0.00    14.60    99.00    99.00
11  5 26 10    15.0 1     0.0     0.00    16.10    99.00    99.00
11  5 26 11    15.0 1     0.0     0.00    17.60    99.00    99.00
11  5 26 12    15.0 1   303.0     0.50    19.10    99.00    99.00
11  5 26 13    15.0 1   322.0     1.50    20.50    99.00    99.00
11  5 26 14    15.0 1   332.0     2.60    21.50    99.00    99.00
11  5 26 15    15.0 1   337.0     3.60    22.10    99.00    99.00
11  5 26 16    15.0 1   347.0     4.60    22.30    99.00    99.00
11  5 26 17    15.0 1   354.0     4.60    22.00    99.00    99.00
11  5 26 18    15.0 1   347.0     3.10    21.10    99.00    99.00
11  5 26 19    15.0 1   342.0     4.10    19.60    99.00    99.00
11  5 26 20    15.0 1   330.0     4.10    17.90    99.00    99.00
11  5 26 21    15.0 1   338.0     3.60    16.60    99.00    99.00
11  5 26 22    15.0 1   349.0     3.10    16.00    99.00    99.00
11  5 26 23    15.0 1   327.0     2.60    15.40    99.00    99.00
11  5 26 24    15.0 1   308.0     2.60    14.50    99.00    99.00
11  5 27  1    15.0 1   338.0     2.10    13.60    99.00    99.00
11  5 27  2    15.0 1     0.0     0.00    13.00    99.00    99.00
11  5 27  3    15.0 1    24.0     1.50    12.40    99.00    99.00
11  5 27  4    15.0 1    61.0     0.50    11.80    99.00    99.00
11  5 27  5    15.0 1     0.0     0.00    11.40    99.00    99.00
11  5 27  6    15.0 1     0.0     0.00    11.10    99.00    99.00
11  5 27  7    15.0 1    12.0     1.00    12.60    99.00    99.00
11  5 27  8    15.0 1     0.0     0.00    13.90    99.00    99.00
11  5 27  9    15.0 1     0.0     0.00    15.60    99.00    99.00
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11   5 27 10     15.0 1     0.0     0.00    17.50    99.00    99.00
11   5 27 11     15.0 1     0.0     0.00    19.10    99.00    99.00
11   5 27 12     15.0 1   322.0     0.50    20.50    99.00    99.00
11   5 27 13     15.0 1   328.0     1.50    21.60    99.00    99.00
11   5 27 14     15.0 1   340.0     3.10    22.50    99.00    99.00
11   5 27 15     15.0 1   354.0     4.10    23.00    99.00    99.00
11   5 27 16     15.0 1   346.0     4.60    23.00    99.00    99.00
11   5 27 17     15.0 1   348.0     5.10    22.60    99.00    99.00
11   5 27 18     15.0 1   337.0     3.60    21.60    99.00    99.00
11   5 27 19     15.0 1   345.0     4.10    19.60    99.00    99.00
11   5 27 20     15.0 1   351.0     4.10    18.10    99.00    99.00
11   5 27 21     15.0 1   355.0     3.60    16.90    99.00    99.00
11   5 27 22     15.0 1   346.0     3.10    15.90    99.00    99.00
11   5 27 23     15.0 1   336.0     2.60    15.50    99.00    99.00
11   5 27 24     15.0 1   320.0     2.60    15.10    99.00    99.00
11   5 28  1     15.0 1   310.0     3.10    14.50    99.00    99.00
11   5 28  2     15.0 1   324.0     3.10    13.60    99.00    99.00
11   5 28  3     15.0 1   318.0     3.10    13.00    99.00    99.00
11   5 28  4     15.0 1   328.0     2.60    12.30    99.00    99.00
11   5 28  5     15.0 1   334.0     2.60    12.30    99.00    99.00
11   5 28  6     15.0 1   328.0     2.60    12.40    99.00    99.00
11   5 28  7     15.0 1   344.0     2.60    12.80    99.00    99.00
11   5 28  8     15.0 1   346.0     2.10    13.50    99.00    99.00
11   5 28  9     15.0 1    44.0     0.50    14.80    99.00    99.00
11   5 28 10     15.0 1     0.0     0.00    16.10    99.00    99.00
11   5 28 11     15.0 1     0.0     0.00    18.00    99.00    99.00
11   5 28 12     15.0 1     0.0     0.00    19.60    99.00    99.00
11   5 28 13     15.0 1   351.0     1.00    20.90    99.00    99.00
11   5 28 14     15.0 1   353.0     2.10    21.80    99.00    99.00
11   5 28 15     15.0 1   348.0     3.10    22.40    99.00    99.00
11   5 28 16     15.0 1   348.0     4.60    22.40    99.00    99.00
11   5 28 17     15.0 1   348.0     4.60    21.50    99.00    99.00
11   5 28 18     15.0 1   351.0     4.10    20.30    99.00    99.00
11   5 28 19     15.0 1   332.0     4.60    18.30    99.00    99.00
11   5 28 20     15.0 1   304.0     4.60    17.00    99.00    99.00
11   5 28 21     15.0 1   289.0     5.10    15.30    99.00    99.00
11   5 28 22     15.0 1   293.0     5.10    13.60    99.00    99.00
11   5 28 23     15.0 1   302.0     5.70    12.60    99.00    99.00
11   5 28 24     15.0 1   296.0     4.60    12.10    99.00    99.00
11   5 29  1     15.0 1   286.0     3.60    11.60    99.00    99.00
11   5 29  2     15.0 1   290.0     3.60    11.50    99.00    99.00
11   5 29  3     15.0 1   290.0     3.60    11.10    99.00    99.00
11   5 29  4     15.0 1   286.0     4.10    10.90    99.00    99.00
11   5 29  5     15.0 1   294.0     4.10    10.60    99.00    99.00
11   5 29  6     15.0 1   300.0     3.60    10.50    99.00    99.00
11   5 29  7     15.0 1   325.0     6.20    11.00    99.00    99.00
11   5 29  8     15.0 1   330.0     6.20    12.10    99.00    99.00
11   5 29  9     15.0 1   334.0     6.20    13.10    99.00    99.00
11   5 29 10     15.0 1   327.0     6.70    14.10    99.00    99.00
11   5 29 11     15.0 1   334.0     7.20    15.30    99.00    99.00
11   5 29 12     15.0 1   326.0     7.70    16.10    99.00    99.00
11   5 29 13     15.0 1   339.0     8.20    16.80    99.00    99.00
11   5 29 14     15.0 1   334.0     8.20    17.50    99.00    99.00
11   5 29 15     15.0 1   334.0     7.70    17.90    99.00    99.00
11   5 29 16     15.0 1   332.0     7.20    18.30    99.00    99.00
11   5 29 17     15.0 1   333.0     6.20    18.30    99.00    99.00
11   5 29 18     15.0 1   321.0     3.10    17.80    99.00    99.00
11   5 29 19     15.0 1   308.0     3.10    17.30    99.00    99.00
11   5 29 20     15.0 1   286.0     3.10    16.80    99.00    99.00
11   5 29 21     15.0 1   286.0     2.60    16.00    99.00    99.00
11   5 29 22     15.0 1   289.0     2.60    14.90    99.00    99.00
11   5 29 23     15.0 1   295.0     1.50    13.30    99.00    99.00
11   5 29 24     15.0 1   297.0     0.50    12.60    99.00    99.00
11   5 30  1     15.0 1   296.0     1.00    12.00    99.00    99.00
11   5 30  2     15.0 1   308.0     1.00    11.50    99.00    99.00
11   5 30  3     15.0 1   310.0     1.00    10.90    99.00    99.00
11   5 30  4     15.0 1   309.0     1.00    10.30    99.00    99.00
11   5 30  5     15.0 1   341.0     1.00     9.80    99.00    99.00
11   5 30  6     15.0 1   353.0     0.50     9.50    99.00    99.00
11   5 30  7     15.0 1     0.0     0.00    11.30    99.00    99.00
11   5 30  8     15.0 1     0.0     0.00    13.10    99.00    99.00
11   5 30  9     15.0 1     0.0     0.00    14.90    99.00    99.00
11   5 30 10     15.0 1     0.0     0.00    16.80    99.00    99.00
11   5 30 11     15.0 1     0.0     0.00    18.50    99.00    99.00
11   5 30 12     15.0 1   296.0     0.50    19.90    99.00    99.00
11   5 30 13     15.0 1   296.0     0.50    21.30    99.00    99.00
11   5 30 14     15.0 1   315.0     0.50    22.30    99.00    99.00
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11   5 30 15     15.0 1   336.0      0.50     23.00     99.00     99.00
11   5 30 16     15.0 1   357.0      1.50     23.40     99.00     99.00
11   5 30 17     15.0 1     6.0      2.60     23.30     99.00     99.00
11   5 30 18     15.0 1    16.0      2.60     22.40     99.00     99.00
11   5 30 19     15.0 1    25.0      3.10     21.40     99.00     99.00
11   5 30 20     15.0 1   292.0      3.10     20.10     99.00     99.00
11   5 30 21     15.0 1   272.0      6.20     16.10     99.00     99.00
11   5 30 22     15.0 1   270.0      5.10     14.50     99.00     99.00
11   5 30 23     15.0 1   278.0      4.60     13.50     99.00     99.00
11   5 30 24     15.0 1   293.0      3.60     12.60     99.00     99.00
11   5 31  1     15.0 1   323.0      1.50     12.40     99.00     99.00
11   5 31  2     15.0 1   322.0      0.50     12.10     99.00     99.00
11   5 31  3     15.0 1   272.0      1.00     11.60     99.00     99.00
11   5 31  4     15.0 1   261.0      1.50     11.10     99.00     99.00
11   5 31  5     15.0 1   264.0      1.50     10.80     99.00     99.00
11   5 31  6     15.0 1   247.0      1.00     10.50     99.00     99.00
11   5 31  7     15.0 1   276.0      0.50     11.50     99.00     99.00
11   5 31  8     15.0 1     0.0      0.00     12.80     99.00     99.00
11   5 31  9     15.0 1     0.0      0.00     14.30     99.00     99.00
11   5 31 10     15.0 1     0.0      0.00     16.10     99.00     99.00
11   5 31 11     15.0 1     0.0      0.00     18.10     99.00     99.00
11   5 31 12     15.0 1     0.0      0.00     20.10     99.00     99.00
11   5 31 13     15.0 1   341.0      0.50     21.60     99.00     99.00
11   5 31 14     15.0 1     5.0      1.00     22.80     99.00     99.00
11   5 31 15     15.0 1     5.0      1.50     23.50     99.00     99.00
11   5 31 16     15.0 1     0.0      0.00     23.90     99.00     99.00
11   5 31 17     15.0 1     2.0      2.60     24.00     99.00     99.00
11   5 31 18     15.0 1   334.0      2.60     23.40     99.00     99.00
11   5 31 19     15.0 1   294.0      5.10     20.90     99.00     99.00
11   5 31 20     15.0 1   284.0      5.10     17.10     99.00     99.00
11   5 31 21     15.0 1   281.0      5.10     15.30     99.00     99.00
11   5 31 22     15.0 1   315.0      3.10     14.10     99.00     99.00
11   5 31 23     15.0 1   337.0      2.60     13.60     99.00     99.00
11   5 31 24     15.0 1   287.0      2.10     13.30     99.00     99.00
11   6  1  1     15.0 1   264.0      2.60     12.80     99.00     99.00
11   6  1  2     15.0 1   255.0      3.10     12.00     99.00     99.00
11   6  1  3     15.0 1   258.0      3.10     11.00     99.00     99.00
11   6  1  4     15.0 1   267.0      3.60     10.30     99.00     99.00
11   6  1  5     15.0 1   285.0      3.60      9.90     99.00     99.00
11   6  1  6     15.0 1   283.0      3.10     10.10     99.00     99.00
11   6  1  7     15.0 1   292.0      2.10     11.10     99.00     99.00
11   6  1  8     15.0 1     0.0      0.00     12.50     99.00     99.00
11   6  1  9     15.0 1     0.0      0.00     14.30     99.00     99.00
11   6  1 10     15.0 1     0.0      0.00     15.80     99.00     99.00
11   6  1 11     15.0 1     0.0      0.00     17.40     99.00     99.00
11   6  1 12     15.0 1     0.0      0.00     18.60     99.00     99.00
11   6  1 13     15.0 1   316.0      0.50     19.80     99.00     99.00
11   6  1 14     15.0 1   330.0      1.00     20.60     99.00     99.00
11   6  1 15     15.0 1   325.0      1.50     21.10     99.00     99.00
11   6  1 16     15.0 1   301.0      2.60     21.40     99.00     99.00
11   6  1 17     15.0 1   288.0      4.10     21.10     99.00     99.00
11   6  1 18     15.0 1   291.0      3.60     20.00     99.00     99.00
11   6  1 19     15.0 1   278.0      5.10     17.80     99.00     99.00
11   6  1 20     15.0 1   277.0      5.70     15.50     99.00     99.00
11   6  1 21     15.0 1   280.0      5.10     13.60     99.00     99.00
11   6  1 22     15.0 1   286.0      4.10     12.50     99.00     99.00
11   6  1 23     15.0 1   294.0      3.60     11.60     99.00     99.00
11   6  1 24     15.0 1   294.0      3.10     10.90     99.00     99.00
11   6  2  1     15.0 1   281.0      2.60     10.30     99.00     99.00
11   6  2  2     15.0 1   278.0      2.60      9.80     99.00     99.00
11   6  2  3     15.0 1   270.0      2.10      9.30     99.00     99.00
11   6  2  4     15.0 1   272.0      1.00      8.90     99.00     99.00
11   6  2  5     15.0 1   255.0      0.50      8.50     99.00     99.00
11   6  2  6     15.0 1   280.0      0.50      8.50     99.00     99.00
11   6  2  7     15.0 1     0.0      0.00     10.30     99.00     99.00
11   6  2  8     15.0 1     0.0      0.00     11.60     99.00     99.00
11   6  2  9     15.0 1     0.0      0.00     13.30     99.00     99.00
11   6  2 10     15.0 1     0.0      0.00     14.80     99.00     99.00
11   6  2 11     15.0 1     0.0      0.00     16.40     99.00     99.00
11   6  2 12     15.0 1     0.0      0.00     17.80     99.00     99.00
11   6  2 13     15.0 1   308.0      1.00     19.00     99.00     99.00
11   6  2 14     15.0 1   321.0      2.10     19.90     99.00     99.00
11   6  2 15     15.0 1   326.0      2.60     20.50     99.00     99.00
11   6  2 16     15.0 1   342.0      3.60     20.60     99.00     99.00
11   6  2 17     15.0 1   347.0      4.10     20.60     99.00     99.00
11   6  2 18     15.0 1     4.0      2.60     20.00     99.00     99.00
11   6  2 19     15.0 1   353.0      3.10     19.30     99.00     99.00
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11  6  2 20    15.0 1   344.0     3.60    18.10    99.00    99.00
11  6  2 21    15.0 1   335.0     3.60    17.00    99.00    99.00
11  6  2 22    15.0 1   331.0     3.60    15.80    99.00    99.00
11  6  2 23    15.0 1   335.0     2.60    14.60    99.00    99.00
11  6  2 24    15.0 1   344.0     2.10    13.50    99.00    99.00
11  6  3  1    15.0 1   338.0     2.10    12.60    99.00    99.00
11  6  3  2    15.0 1   357.0     1.00    11.80    99.00    99.00
11  6  3  3    15.0 1    23.0     0.50    11.10    99.00    99.00
11  6  3  4    15.0 1    42.0     0.50    10.60    99.00    99.00
11  6  3  5    15.0 1    45.0     0.50    10.10    99.00    99.00
11  6  3  6    15.0 1     0.0     0.00     9.80    99.00    99.00
11  6  3  7    15.0 1     3.0     0.50    11.50    99.00    99.00
11  6  3  8    15.0 1     0.0     0.00    13.30    99.00    99.00
11  6  3  9    15.0 1     0.0     0.00    15.10    99.00    99.00
11  6  3 10    15.0 1     0.0     0.00    16.60    99.00    99.00
11  6  3 11    15.0 1     0.0     0.00    18.30    99.00    99.00
11  6  3 12    15.0 1     0.0     0.00    19.60    99.00    99.00
11  6  3 13    15.0 1     0.0     0.00    20.80    99.00    99.00
11  6  3 14    15.0 1   335.0     1.00    21.60    99.00    99.00
11  6  3 15    15.0 1   355.0     1.50    21.80    99.00    99.00
11  6  3 16    15.0 1     5.0     2.60    21.60    99.00    99.00
11  6  3 17    15.0 1     0.0     0.00    21.10    99.00    99.00
11  6  3 18    15.0 1   351.0     2.10    20.90    99.00    99.00
11  6  3 19    15.0 1   288.0     3.60    19.90    99.00    99.00
11  6  3 20    15.0 1   279.0     4.10    17.50    99.00    99.00
11  6  3 21    15.0 1   276.0     3.60    16.30    99.00    99.00
11  6  3 22    15.0 1   305.0     3.10    15.90    99.00    99.00
11  6  3 23    15.0 1   338.0     2.60    15.60    99.00    99.00
11  6  3 24    15.0 1    17.0     2.10    15.80    99.00    99.00
11  6  4  1    15.0 1    59.0     2.10    15.80    99.00    99.00
11  6  4  2    15.0 1    79.0     3.10    15.40    99.00    99.00
11  6  4  3    15.0 1    66.0     2.10    15.10    99.00    99.00
11  6  4  4    15.0 1    47.0     1.50    14.60    99.00    99.00
11  6  4  5    15.0 1    50.0     1.50    14.00    99.00    99.00
11  6  4  6    15.0 1    59.0     2.10    13.60    99.00    99.00
11  6  4  7    15.0 1    66.0     1.50    13.40    99.00    99.00
11  6  4  8    15.0 1   110.0     1.50    13.80    99.00    99.00
11  6  4  9    15.0 1   127.0     2.60    14.60    99.00    99.00
11  6  4 10    15.0 1   126.0     3.60    15.80    99.00    99.00
11  6  4 11    15.0 1   119.0     3.60    16.90    99.00    99.00
11  6  4 12    15.0 1   119.0     3.10    18.00    99.00    99.00
11  6  4 13    15.0 1   140.0     1.50    18.90    99.00    99.00
11  6  4 14    15.0 1   185.0     1.00    19.50    99.00    99.00
11  6  4 15    15.0 1   242.0     0.50    20.40    99.00    99.00
11  6  4 16    15.0 1   249.0     0.50    20.60    99.00    99.00
11  6  4 17    15.0 1   312.0     1.00    20.90    99.00    99.00
11  6  4 18    15.0 1   333.0     1.50    20.80    99.00    99.00
11  6  4 19    15.0 1   317.0     1.50    20.30    99.00    99.00
11  6  4 20    15.0 1   300.0     2.10    19.80    99.00    99.00
11  6  4 21    15.0 1   299.0     2.60    19.00    99.00    99.00
11  6  4 22    15.0 1   315.0     2.60    18.00    99.00    99.00
11  6  4 23    15.0 1   322.0     2.60    17.00    99.00    99.00
11  6  4 24    15.0 1   345.0     2.10    16.10    99.00    99.00
11  6  5  1    15.0 1     0.0     0.00    15.40    99.00    99.00
11  6  5  2    15.0 1     9.0     2.60    15.00    99.00    99.00
11  6  5  3    15.0 1    18.0     3.60    14.30    99.00    99.00
11  6  5  4    15.0 1    17.0     3.60    13.60    99.00    99.00
11  6  5  5    15.0 1    34.0     3.60    13.10    99.00    99.00
11  6  5  6    15.0 1    18.0     2.60    13.40    99.00    99.00
11  6  5  7    15.0 1    15.0     2.10    14.60    99.00    99.00
11  6  5  8    15.0 1    12.0     1.00    16.10    99.00    99.00
11  6  5  9    15.0 1   358.0     0.50    17.90    99.00    99.00
11  6  5 10    15.0 1     0.0     0.00    19.60    99.00    99.00
11  6  5 11    15.0 1     0.0     0.00    21.30    99.00    99.00
11  6  5 12    15.0 1     0.0     0.00    22.60    99.00    99.00
11  6  5 13    15.0 1     0.0     0.00    24.10    99.00    99.00
11  6  5 14    15.0 1     0.0     0.00    25.10    99.00    99.00
11  6  5 15    15.0 1   224.0     1.50    26.00    99.00    99.00
11  6  5 16    15.0 1   235.0     5.10    25.80    99.00    99.00
11  6  5 17    15.0 1   231.0     4.60    24.10    99.00    99.00
11  6  5 18    15.0 1   255.0     3.60    22.10    99.00    99.00
11  6  5 19    15.0 1   259.0     4.60    19.60    99.00    99.00
11  6  5 20    15.0 1   269.0     4.10    17.10    99.00    99.00
11  6  5 21    15.0 1   269.0     3.10    15.80    99.00    99.00
11  6  5 22    15.0 1   309.0     1.50    15.10    99.00    99.00
11  6  5 23    15.0 1    33.0     1.00    14.60    99.00    99.00
11  6  5 24    15.0 1    20.0     2.10    14.10    99.00    99.00
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11  6  6  1    15.0 1    15.0     1.00    13.60    99.00    99.00
11  6  6  2    15.0 1     0.0     0.00    13.10    99.00    99.00
11  6  6  3    15.0 1   189.0     0.50    12.80    99.00    99.00
11  6  6  4    15.0 1   190.0     1.00    12.50    99.00    99.00
11  6  6  5    15.0 1   170.0     1.50    12.50    99.00    99.00
11  6  6  6    15.0 1   175.0     2.10    12.60    99.00    99.00
11  6  6  7    15.0 1   196.0     2.10    13.40    99.00    99.00
11  6  6  8    15.0 1   235.0     0.50    14.60    99.00    99.00
11  6  6  9    15.0 1     0.0     0.00    15.60    99.00    99.00
11  6  6 10    15.0 1     0.0     0.00    16.60    99.00    99.00
11  6  6 11    15.0 1     0.0     0.00    17.90    99.00    99.00
11  6  6 12    15.0 1     0.0     0.00    19.10    99.00    99.00
11  6  6 13    15.0 1   301.0     0.50    20.10    99.00    99.00
11  6  6 14    15.0 1   316.0     1.50    21.10    99.00    99.00
11  6  6 15    15.0 1   326.0     2.60    21.60    99.00    99.00
11  6  6 16    15.0 1   338.0     3.60    21.90    99.00    99.00
11  6  6 17    15.0 1   350.0     4.10    21.80    99.00    99.00
11  6  6 18    15.0 1   346.0     2.60    21.40    99.00    99.00
11  6  6 19    15.0 1   353.0     3.60    20.30    99.00    99.00
11  6  6 20    15.0 1   348.0     4.10    18.30    99.00    99.00
11  6  6 21    15.0 1     5.0     3.60    17.00    99.00    99.00
11  6  6 22    15.0 1    14.0     3.10    16.30    99.00    99.00
11  6  6 23    15.0 1     0.0     0.00    15.90    99.00    99.00
11  6  6 24    15.0 1   329.0     1.00    15.30    99.00    99.00
11  6  7  1    15.0 1   309.0     0.50    14.80    99.00    99.00
11  6  7  2    15.0 1   288.0     0.50    14.10    99.00    99.00
11  6  7  3    15.0 1   279.0     1.50    13.90    99.00    99.00
11  6  7  4    15.0 1   293.0     1.50    14.10    99.00    99.00
11  6  7  5    15.0 1   305.0     2.10    14.10    99.00    99.00
11  6  7  6    15.0 1   314.0     2.10    14.10    99.00    99.00
11  6  7  7    15.0 1   319.0     2.10    14.30    99.00    99.00
11  6  7  8    15.0 1   338.0     1.50    15.10    99.00    99.00
11  6  7  9    15.0 1     0.0     0.00    17.10    99.00    99.00
11  6  7 10    15.0 1     0.0     0.00    18.40    99.00    99.00
11  6  7 11    15.0 1     0.0     0.00    19.80    99.00    99.00
11  6  7 12    15.0 1     0.0     0.00    21.10    99.00    99.00
11  6  7 13    15.0 1     0.0     0.00    22.40    99.00    99.00
11  6  7 14    15.0 1     0.0     0.00    23.40    99.00    99.00
11  6  7 15    15.0 1     0.0     0.00    24.00    99.00    99.00
11  6  7 16    15.0 1    13.0     2.10    24.40    99.00    99.00
11  6  7 17    15.0 1    12.0     2.60    24.40    99.00    99.00
11  6  7 18    15.0 1    19.0     2.60    24.00    99.00    99.00
11  6  7 19    15.0 1    23.0     3.10    23.40    99.00    99.00
11  6  7 20    15.0 1     6.0     1.50    22.30    99.00    99.00
11  6  7 21    15.0 1   262.0     1.50    21.10    99.00    99.00
11  6  7 22    15.0 1   248.0     4.60    18.50    99.00    99.00
11  6  7 23    15.0 1   261.0     4.10    16.80    99.00    99.00
11  6  7 24    15.0 1   275.0     3.60    15.80    99.00    99.00
11  6  8  1    15.0 1   300.0     3.10    15.10    99.00    99.00
11  6  8  2    15.0 1   335.0     2.60    14.90    99.00    99.00
11  6  8  3    15.0 1   333.0     1.50    14.50    99.00    99.00
11  6  8  4    15.0 1   286.0     0.50    14.10    99.00    99.00
11  6  8  5    15.0 1   288.0     0.50    13.60    99.00    99.00
11  6  8  6    15.0 1     0.0     0.00    13.50    99.00    99.00
11  6  8  7    15.0 1     0.0     0.00    15.30    99.00    99.00
11  6  8  8    15.0 1     0.0     0.00    16.80    99.00    99.00
11  6  8  9    15.0 1     0.0     0.00    18.30    99.00    99.00
11  6  8 10    15.0 1     0.0     0.00    20.10    99.00    99.00
11  6  8 11    15.0 1     0.0     0.00    21.60    99.00    99.00
11  6  8 12    15.0 1     0.0     0.00    23.10    99.00    99.00
11  6  8 13    15.0 1     0.0     0.00    24.40    99.00    99.00
11  6  8 14    15.0 1   358.0     0.50    25.30    99.00    99.00
11  6  8 15    15.0 1    13.0     1.50    26.00    99.00    99.00
11  6  8 16    15.0 1     9.0     2.10    26.30    99.00    99.00
11  6  8 17    15.0 1    14.0     2.60    26.30    99.00    99.00
11  6  8 18    15.0 1    24.0     2.10    25.90    99.00    99.00
11  6  8 19    15.0 1    13.0     2.60    25.40    99.00    99.00
11  6  8 20    15.0 1   278.0     4.10    23.80    99.00    99.00
11  6  8 21    15.0 1   269.0     6.20    19.10    99.00    99.00
11  6  8 22    15.0 1   270.0     5.10    17.50    99.00    99.00
11  6  8 23    15.0 1   259.0     4.10    16.50    99.00    99.00
11  6  8 24    15.0 1   277.0     2.60    16.00    99.00    99.00
11  6  9  1    15.0 1   300.0     1.50    15.60    99.00    99.00
11  6  9  2    15.0 1    30.0     0.50    15.30    99.00    99.00
11  6  9  3    15.0 1     0.0     0.00    15.10    99.00    99.00
11  6  9  4    15.0 1   307.0     0.50    14.80    99.00    99.00
11  6  9  5    15.0 1   300.0     0.50    14.50    99.00    99.00
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11   6   9   6     15.0 1     0.0     0.00    14.50    99.00    99.00
11   6   9   7     15.0 1   345.0     0.50    16.40    99.00    99.00
11   6   9   8     15.0 1     0.0     0.00    17.80    99.00    99.00
11   6   9   9     15.0 1     0.0     0.00    19.40    99.00    99.00
11   6   9  10     15.0 1     0.0     0.00    21.10    99.00    99.00
11   6   9  11     15.0 1     0.0     0.00    22.90    99.00    99.00
11   6   9  12     15.0 1     0.0     0.00    24.30    99.00    99.00
11   6   9  13     15.0 1     0.0     0.00    25.50    99.00    99.00
11   6   9  14     15.0 1   344.0     0.50    26.50    99.00    99.00
11   6   9  15     15.0 1     0.0     0.00    27.30    99.00    99.00
11   6   9  16     15.0 1     1.0     1.50    28.10    99.00    99.00
11   6   9  17     15.0 1     9.0     2.60    28.10    99.00    99.00
11   6   9  18     15.0 1    13.0     2.10    27.90    99.00    99.00
11   6   9  19     15.0 1    19.0     3.10    27.10    99.00    99.00
11   6   9  20     15.0 1   334.0     2.60    26.10    99.00    99.00
11   6   9  21     15.0 1   266.0     5.70    22.60    99.00    99.00
11   6   9  22     15.0 1   268.0     5.10    19.80    99.00    99.00
11   6   9  23     15.0 1   264.0     4.60    18.60    99.00    99.00
11   6   9  24     15.0 1   267.0     3.60    18.10    99.00    99.00
11   6  10   1     15.0 1   276.0     2.10    18.10    99.00    99.00
11   6  10   2     15.0 1   330.0     1.00    18.10    99.00    99.00
11   6  10   3     15.0 1   340.0     1.00    17.80    99.00    99.00
11   6  10   4     15.0 1   357.0     0.50    17.30    99.00    99.00
11   6  10   5     15.0 1   340.0     0.50    16.80    99.00    99.00
11   6  10   6     15.0 1   331.0     0.50    16.60    99.00    99.00
11   6  10   7     15.0 1   350.0     1.50    18.10    99.00    99.00
11   6  10   8     15.0 1     0.0     0.00    19.60    99.00    99.00
11   6  10   9     15.0 1     0.0     0.00    21.10    99.00    99.00
11   6  10  10     15.0 1     0.0     0.00    22.90    99.00    99.00
11   6  10  11     15.0 1     0.0     0.00    24.40    99.00    99.00
11   6  10  12     15.0 1     0.0     0.00    25.60    99.00    99.00
11   6  10  13     15.0 1   312.0     0.50    26.80    99.00    99.00
11   6  10  14     15.0 1   337.0     1.50    27.60    99.00    99.00
11   6  10  15     15.0 1     1.0     2.60    28.10    99.00    99.00
11   6  10  16     15.0 1     0.0     0.00    28.10    99.00    99.00
11   6  10  17     15.0 1    11.0     3.60    27.60    99.00    99.00
11   6  10  18     15.0 1     0.0     0.00    26.90    99.00    99.00
11   6  10  19     15.0 1   346.0     3.60    25.90    99.00    99.00
11   6  10  20     15.0 1   315.0     4.10    24.50    99.00    99.00
11   6  10  21     15.0 1   267.0     4.60    21.80    99.00    99.00
11   6  10  22     15.0 1   280.0     5.10    19.50    99.00    99.00
11   6  10  23     15.0 1   282.0     4.10    18.10    99.00    99.00
11   6  10  24     15.0 1   290.0     3.10    17.10    99.00    99.00
11   6  11   1     15.0 1   294.0     2.10    16.60    99.00    99.00
11   6  11   2     15.0 1   272.0     1.50    16.10    99.00    99.00
11   6  11   3     15.0 1   261.0     2.10    15.60    99.00    99.00
11   6  11   4     15.0 1   266.0     3.10    14.60    99.00    99.00
11   6  11   5     15.0 1   267.0     2.60    14.00    99.00    99.00
11   6  11   6     15.0 1   281.0     3.10    14.30    99.00    99.00
11   6  11   7     15.0 1   276.0     1.50    15.40    99.00    99.00
11   6  11   8     15.0 1     0.0     0.00    16.60    99.00    99.00
11   6  11   9     15.0 1     0.0     0.00    18.10    99.00    99.00
11   6  11  10     15.0 1     0.0     0.00    19.60    99.00    99.00
11   6  11  11     15.0 1     0.0     0.00    21.10    99.00    99.00
11   6  11  12     15.0 1     0.0     0.00    22.60    99.00    99.00
11   6  11  13     15.0 1     0.0     0.00    23.90    99.00    99.00
11   6  11  14     15.0 1   312.0     0.50    24.90    99.00    99.00
11   6  11  15     15.0 1   338.0     1.00    25.60    99.00    99.00
11   6  11  16     15.0 1   340.0     1.50    26.00    99.00    99.00
11   6  11  17     15.0 1   342.0     3.10    26.00    99.00    99.00
11   6  11  18     15.0 1   302.0     4.10    24.10    99.00    99.00
11   6  11  19     15.0 1   291.0     4.60    21.80    99.00    99.00
11   6  11  20     15.0 1   279.0     4.10    20.60    99.00    99.00
11   6  11  21     15.0 1   268.0     4.10    19.50    99.00    99.00
11   6  11  22     15.0 1   280.0     4.10    17.80    99.00    99.00
11   6  11  23     15.0 1   285.0     4.10    16.30    99.00    99.00
11   6  11  24     15.0 1   270.0     3.60    15.30    99.00    99.00
11   6  12   1     15.0 1   272.0     3.10    14.60    99.00    99.00
11   6  12   2     15.0 1   278.0     3.10    14.10    99.00    99.00
11   6  12   3     15.0 1   278.0     3.60    14.10    99.00    99.00
11   6  12   4     15.0 1   276.0     3.60    14.00    99.00    99.00
11   6  12   5     15.0 1   292.0     3.10    14.10    99.00    99.00
11   6  12   6     15.0 1   294.0     2.60    14.30    99.00    99.00
11   6  12   7     15.0 1   278.0     2.60    14.50    99.00    99.00
11   6  12   8     15.0 1   270.0     1.50    15.60    99.00    99.00
11   6  12   9     15.0 1     0.0     0.00    17.30    99.00    99.00
11   6  12  10     15.0 1     0.0     0.00    19.10    99.00    99.00
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11  6 12 11    15.0 1     0.0     0.00    20.90    99.00    99.00
11  6 12 12    15.0 1     0.0     0.00    22.50    99.00    99.00
11  6 12 13    15.0 1     0.0     0.00    23.90    99.00    99.00
11  6 12 14    15.0 1     0.0     0.00    25.00    99.00    99.00
11  6 12 15    15.0 1     1.0     1.00    25.80    99.00    99.00
11  6 12 16    15.0 1     0.0     0.00    26.30    99.00    99.00
11  6 12 17    15.0 1     9.0     2.60    26.30    99.00    99.00
11  6 12 18    15.0 1    24.0     2.10    26.00    99.00    99.00
11  6 12 19    15.0 1    34.0     2.60    25.50    99.00    99.00
11  6 12 20    15.0 1   300.0     1.50    24.60    99.00    99.00
11  6 12 21    15.0 1   261.0     5.10    21.60    99.00    99.00
11  6 12 22    15.0 1   256.0     5.10    19.00    99.00    99.00
11  6 12 23    15.0 1   257.0     4.60    18.30    99.00    99.00
11  6 12 24    15.0 1   284.0     3.10    17.80    99.00    99.00
11  6 13  1    15.0 1   289.0     2.10    17.60    99.00    99.00
11  6 13  2    15.0 1   313.0     1.50    17.60    99.00    99.00
11  6 13  3    15.0 1   328.0     1.00    17.30    99.00    99.00
11  6 13  4    15.0 1     0.0     0.00    16.90    99.00    99.00
11  6 13  5    15.0 1    10.0     0.50    16.50    99.00    99.00
11  6 13  6    15.0 1   352.0     0.50    16.40    99.00    99.00
11  6 13  7    15.0 1    15.0     1.00    17.60    99.00    99.00
11  6 13  8    15.0 1     0.0     0.00    19.10    99.00    99.00
11  6 13  9    15.0 1     0.0     0.00    20.60    99.00    99.00
11  6 13 10    15.0 1     0.0     0.00    22.50    99.00    99.00
11  6 13 11    15.0 1     0.0     0.00    24.30    99.00    99.00
11  6 13 12    15.0 1     0.0     0.00    25.60    99.00    99.00
11  6 13 13    15.0 1   312.0     0.50    26.90    99.00    99.00
11  6 13 14    15.0 1   354.0     1.00    27.80    99.00    99.00
11  6 13 15    15.0 1   360.0     2.10    28.40    99.00    99.00
11  6 13 16    15.0 1     0.0     0.00    28.60    99.00    99.00
11  6 13 17    15.0 1    15.0     3.60    28.40    99.00    99.00
11  6 13 18    15.0 1     0.0     0.00    27.90    99.00    99.00
11  6 13 19    15.0 1   346.0     3.10    27.30    99.00    99.00
11  6 13 20    15.0 1   326.0     3.60    26.10    99.00    99.00
11  6 13 21    15.0 1   318.0     3.60    24.80    99.00    99.00
11  6 13 22    15.0 1   317.0     3.10    23.60    99.00    99.00
11  6 13 23    15.0 1   317.0     3.60    22.60    99.00    99.00
11  6 13 24    15.0 1   328.0     2.60    21.60    99.00    99.00
11  6 14  1    15.0 1   349.0     2.60    21.00    99.00    99.00
11  6 14  2    15.0 1     0.0     0.00    20.10    99.00    99.00
11  6 14  3    15.0 1     0.0     0.00    19.50    99.00    99.00
11  6 14  4    15.0 1   350.0     1.00    18.90    99.00    99.00
11  6 14  5    15.0 1   327.0     1.00    18.30    99.00    99.00
11  6 14  6    15.0 1   331.0     1.00    18.10    99.00    99.00
11  6 14  7    15.0 1   349.0     1.50    19.40    99.00    99.00
11  6 14  8    15.0 1     0.0     0.00    21.10    99.00    99.00
11  6 14  9    15.0 1     0.0     0.00    22.80    99.00    99.00
11  6 14 10    15.0 1     0.0     0.00    24.60    99.00    99.00
11  6 14 11    15.0 1     0.0     0.00    26.40    99.00    99.00
11  6 14 12    15.0 1     0.0     0.00    28.00    99.00    99.00
11  6 14 13    15.0 1   319.0     0.50    29.40    99.00    99.00
11  6 14 14    15.0 1   346.0     1.50    30.50    99.00    99.00
11  6 14 15    15.0 1   360.0     2.60    31.10    99.00    99.00
11  6 14 16    15.0 1     8.0     3.10    31.60    99.00    99.00
11  6 14 17    15.0 1     8.0     3.10    31.50    99.00    99.00
11  6 14 18    15.0 1    14.0     2.10    31.30    99.00    99.00
11  6 14 19    15.0 1   336.0     2.10    30.50    99.00    99.00
11  6 14 20    15.0 1   319.0     2.10    29.10    99.00    99.00
11  6 14 21    15.0 1   306.0     2.10    28.00    99.00    99.00
11  6 14 22    15.0 1   297.0     2.60    26.90    99.00    99.00
11  6 14 23    15.0 1   288.0     4.10    25.00    99.00    99.00
11  6 14 24    15.0 1   299.0     3.10    23.60    99.00    99.00
11  6 15  1    15.0 1   292.0     2.60    23.00    99.00    99.00
11  6 15  2    15.0 1   291.0     2.60    22.40    99.00    99.00
11  6 15  3    15.0 1   300.0     1.50    21.80    99.00    99.00
11  6 15  4    15.0 1   324.0     1.50    21.30    99.00    99.00
11  6 15  5    15.0 1   325.0     1.00    20.60    99.00    99.00
11  6 15  6    15.0 1   332.0     1.00    20.50    99.00    99.00
11  6 15  7    15.0 1   347.0     1.50    21.90    99.00    99.00
11  6 15  8    15.0 1     0.0     0.00    23.60    99.00    99.00
11  6 15  9    15.0 1     0.0     0.00    25.50    99.00    99.00
11  6 15 10    15.0 1     0.0     0.00    27.10    99.00    99.00
11  6 15 11    15.0 1     0.0     0.00    28.80    99.00    99.00
11  6 15 12    15.0 1     0.0     0.00    30.10    99.00    99.00
11  6 15 13    15.0 1   317.0     0.50    31.30    99.00    99.00
11  6 15 14    15.0 1   347.0     1.50    31.90    99.00    99.00
11  6 15 15    15.0 1     5.0     2.60    32.10    99.00    99.00
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11  6 15 16    15.0 1     0.0     0.00    32.10    99.00    99.00
11  6 15 17    15.0 1     0.0     0.00    31.60    99.00    99.00
11  6 15 18    15.0 1   356.0     2.60    31.10    99.00    99.00
11  6 15 19    15.0 1   345.0     3.60    30.10    99.00    99.00
11  6 15 20    15.0 1   317.0     4.10    28.10    99.00    99.00
11  6 15 21    15.0 1   280.0     4.60    25.90    99.00    99.00
11  6 15 22    15.0 1   265.0     4.60    23.10    99.00    99.00
11  6 15 23    15.0 1   261.0     4.10    21.60    99.00    99.00
11  6 15 24    15.0 1   273.0     4.10    20.60    99.00    99.00
11  6 16  1    15.0 1   290.0     3.10    20.00    99.00    99.00
11  6 16  2    15.0 1   297.0     2.60    19.50    99.00    99.00
11  6 16  3    15.0 1   300.0     2.10    19.10    99.00    99.00
11  6 16  4    15.0 1   290.0     1.50    18.90    99.00    99.00
11  6 16  5    15.0 1   279.0     1.50    18.60    99.00    99.00
11  6 16  6    15.0 1   271.0     1.00    18.50    99.00    99.00
11  6 16  7    15.0 1   289.0     1.00    20.30    99.00    99.00
11  6 16  8    15.0 1     0.0     0.00    21.60    99.00    99.00
11  6 16  9    15.0 1     0.0     0.00    23.10    99.00    99.00
11  6 16 10    15.0 1     0.0     0.00    24.80    99.00    99.00
11  6 16 11    15.0 1     0.0     0.00    26.30    99.00    99.00
11  6 16 12    15.0 1     0.0     0.00    27.50    99.00    99.00
11  6 16 13    15.0 1   340.0     1.00    28.60    99.00    99.00
11  6 16 14    15.0 1   349.0     2.10    29.40    99.00    99.00
11  6 16 15    15.0 1   360.0     3.10    29.60    99.00    99.00
11  6 16 16    15.0 1     3.0     4.10    29.60    99.00    99.00
11  6 16 17    15.0 1     0.0     0.00    29.10    99.00    99.00
11  6 16 18    15.0 1     0.0     0.00    28.40    99.00    99.00
11  6 16 19    15.0 1   354.0     3.60    27.60    99.00    99.00
11  6 16 20    15.0 1   291.0     4.10    26.10    99.00    99.00
11  6 16 21    15.0 1   257.0     5.10    23.10    99.00    99.00
11  6 16 22    15.0 1   267.0     4.60    21.40    99.00    99.00
11  6 16 23    15.0 1   267.0     4.60    20.60    99.00    99.00
11  6 16 24    15.0 1   270.0     4.10    20.00    99.00    99.00
11  6 17  1    15.0 1   276.0     3.10    19.60    99.00    99.00
11  6 17  2    15.0 1   289.0     2.60    19.10    99.00    99.00
11  6 17  3    15.0 1   277.0     1.00    18.80    99.00    99.00
11  6 17  4    15.0 1   268.0     1.00    18.40    99.00    99.00
11  6 17  5    15.0 1   279.0     1.50    18.00    99.00    99.00
11  6 17  6    15.0 1   292.0     2.10    17.80    99.00    99.00
11  6 17  7    15.0 1   327.0     2.10    19.30    99.00    99.00
11  6 17  8    15.0 1   333.0     0.50    20.60    99.00    99.00
11  6 17  9    15.0 1     0.0     0.00    22.00    99.00    99.00
11  6 17 10    15.0 1     0.0     0.00    23.50    99.00    99.00
11  6 17 11    15.0 1     0.0     0.00    24.90    99.00    99.00
11  6 17 12    15.0 1     0.0     0.00    26.10    99.00    99.00
11  6 17 13    15.0 1     0.0     0.00    27.10    99.00    99.00
11  6 17 14    15.0 1   347.0     0.50    28.00    99.00    99.00
11  6 17 15    15.0 1     0.0     0.00    28.50    99.00    99.00
11  6 17 16    15.0 1     8.0     2.10    28.60    99.00    99.00
11  6 17 17    15.0 1     8.0     2.60    28.50    99.00    99.00
11  6 17 18    15.0 1    22.0     2.10    27.90    99.00    99.00
11  6 17 19    15.0 1     2.0     2.10    27.40    99.00    99.00
11  6 17 20    15.0 1   272.0     5.10    25.40    99.00    99.00
11  6 17 21    15.0 1   265.0     6.20    20.60    99.00    99.00
11  6 17 22    15.0 1   275.0     5.10    19.10    99.00    99.00
11  6 17 23    15.0 1   263.0     4.10    18.30    99.00    99.00
11  6 17 24    15.0 1   279.0     2.60    17.60    99.00    99.00
11  6 18  1    15.0 1    50.0     0.50    17.60    99.00    99.00
11  6 18  2    15.0 1   122.0     0.50    17.50    99.00    99.00
11  6 18  3    15.0 1     0.0     0.00    17.30    99.00    99.00
11  6 18  4    15.0 1     0.0     0.00    16.90    99.00    99.00
11  6 18  5    15.0 1   321.0     0.50    16.40    99.00    99.00
11  6 18  6    15.0 1   315.0     0.50    16.10    99.00    99.00
11  6 18  7    15.0 1   346.0     0.50    18.00    99.00    99.00
11  6 18  8    15.0 1     0.0     0.00    19.50    99.00    99.00
11  6 18  9    15.0 1     0.0     0.00    21.30    99.00    99.00
11  6 18 10    15.0 1     0.0     0.00    23.10    99.00    99.00
11  6 18 11    15.0 1     0.0     0.00    24.90    99.00    99.00
11  6 18 12    15.0 1     0.0     0.00    26.30    99.00    99.00
11  6 18 13    15.0 1     0.0     0.00    27.50    99.00    99.00
11  6 18 14    15.0 1   332.0     0.50    28.50    99.00    99.00
11  6 18 15    15.0 1     0.0     0.00    29.10    99.00    99.00
11  6 18 16    15.0 1    10.0     2.10    29.50    99.00    99.00
11  6 18 17    15.0 1    16.0     3.10    29.10    99.00    99.00
11  6 18 18    15.0 1    31.0     2.60    28.60    99.00    99.00
11  6 18 19    15.0 1   331.0     2.10    28.10    99.00    99.00
11  6 18 20    15.0 1   270.0     5.70    25.10    99.00    99.00
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11   6 18 21     15.0 1   258.0      6.20     21.10     99.00     99.00
11   6 18 22     15.0 1   260.0      4.60     19.80     99.00     99.00
11   6 18 23     15.0 1   257.0      4.10     18.90     99.00     99.00
11   6 18 24     15.0 1   270.0      2.60     18.30     99.00     99.00
11   6 19  1     15.0 1   272.0      1.00     18.00     99.00     99.00
11   6 19  2     15.0 1     0.0      0.00     17.60     99.00     99.00
11   6 19  3     15.0 1     0.0      0.00     17.40     99.00     99.00
11   6 19  4     15.0 1   258.0      0.50     17.10     99.00     99.00
11   6 19  5     15.0 1   264.0      1.00     17.00     99.00     99.00
11   6 19  6     15.0 1   256.0      0.50     17.30     99.00     99.00
11   6 19  7     15.0 1     0.0      0.00     19.10     99.00     99.00
11   6 19  8     15.0 1     0.0      0.00     20.60     99.00     99.00
11   6 19  9     15.0 1     0.0      0.00     22.10     99.00     99.00
11   6 19 10     15.0 1     0.0      0.00     23.60     99.00     99.00
11   6 19 11     15.0 1     0.0      0.00     25.10     99.00     99.00
11   6 19 12     15.0 1     0.0      0.00     26.60     99.00     99.00
11   6 19 13     15.0 1   336.0      0.50     27.80     99.00     99.00
11   6 19 14     15.0 1     0.0      0.00     28.50     99.00     99.00
11   6 19 15     15.0 1     0.0      0.00     29.00     99.00     99.00
11   6 19 16     15.0 1   360.0      2.10     29.50     99.00     99.00
11   6 19 17     15.0 1   355.0      2.10     29.60     99.00     99.00
11   6 19 18     15.0 1   351.0      1.50     29.60     99.00     99.00
11   6 19 19     15.0 1   354.0      1.50     29.10     99.00     99.00
11   6 19 20     15.0 1   348.0      0.50     28.10     99.00     99.00
11   6 19 21     15.0 1     0.0      0.00     26.90     99.00     99.00
11   6 19 22     15.0 1   266.0      0.50     25.50     99.00     99.00
11   6 19 23     15.0 1   184.0      0.50     24.10     99.00     99.00
11   6 19 24     15.0 1   128.0      1.00     23.10     99.00     99.00
11   6 20  1     15.0 1   141.0      1.00     22.50     99.00     99.00
11   6 20  2     15.0 1   222.0      1.00     21.90     99.00     99.00
11   6 20  3     15.0 1   261.0      2.60     20.90     99.00     99.00
11   6 20  4     15.0 1   281.0      3.10     19.60     99.00     99.00
11   6 20  5     15.0 1   278.0      3.10     18.60     99.00     99.00
11   6 20  6     15.0 1   291.0      3.10     18.60     99.00     99.00
11   6 20  7     15.0 1   307.0      3.10     20.10     99.00     99.00
11   6 20  8     15.0 1   300.0      1.50     21.60     99.00     99.00
11   6 20  9     15.0 1   281.0      1.00     24.00     99.00     99.00
11   6 20 10     15.0 1   282.0      0.50     26.10     99.00     99.00
11   6 20 11     15.0 1     0.0      0.00     28.10     99.00     99.00
11   6 20 12     15.0 1   330.0      0.50     29.80     99.00     99.00
11   6 20 13     15.0 1   346.0      0.50     31.00     99.00     99.00
11   6 20 14     15.0 1     0.0      0.00     31.90     99.00     99.00
11   6 20 15     15.0 1    14.0      2.10     32.30     99.00     99.00
11   6 20 16     15.0 1    16.0      3.10     32.30     99.00     99.00
11   6 20 17     15.0 1    18.0      3.10     31.60     99.00     99.00
11   6 20 18     15.0 1    21.0      2.60     30.90     99.00     99.00
11   6 20 19     15.0 1   346.0      2.10     30.10     99.00     99.00
11   6 20 20     15.0 1   316.0      2.10     28.90     99.00     99.00
11   6 20 21     15.0 1   298.0      2.60     27.50     99.00     99.00
11   6 20 22     15.0 1   291.0      3.10     26.10     99.00     99.00
11   6 20 23     15.0 1   286.0      3.60     24.50     99.00     99.00
11   6 20 24     15.0 1   286.0      3.10     23.10     99.00     99.00
11   6 21  1     15.0 1   307.0      2.10     22.50     99.00     99.00
11   6 21  2     15.0 1   310.0      1.00     21.90     99.00     99.00
11   6 21  3     15.0 1   257.0      1.00     21.40     99.00     99.00
11   6 21  4     15.0 1   264.0      2.10     20.80     99.00     99.00
11   6 21  5     15.0 1   282.0      2.60     20.40     99.00     99.00
11   6 21  6     15.0 1   277.0      2.10     20.30     99.00     99.00
11   6 21  7     15.0 1   306.0      2.10     21.90     99.00     99.00
11   6 21  8     15.0 1   299.0      1.00     23.80     99.00     99.00
11   6 21  9     15.0 1     0.0      0.00     26.10     99.00     99.00
11   6 21 10     15.0 1     0.0      0.00     28.30     99.00     99.00
11   6 21 11     15.0 1     0.0      0.00     30.10     99.00     99.00
11   6 21 12     15.0 1     0.0      0.00     32.00     99.00     99.00
11   6 21 13     15.0 1     0.0      0.00     33.50     99.00     99.00
11   6 21 14     15.0 1     0.0      0.00     34.50     99.00     99.00
11   6 21 15     15.0 1    11.0      1.00     35.10     99.00     99.00
11   6 21 16     15.0 1    12.0      2.10     35.10     99.00     99.00
11   6 21 17     15.0 1    21.0      2.60     34.30     99.00     99.00
11   6 21 18     15.0 1     8.0      3.10     33.50     99.00     99.00
11   6 21 19     15.0 1   358.0      3.10     32.60     99.00     99.00
11   6 21 20     15.0 1   290.0      4.60     31.40     99.00     99.00
11   6 21 21     15.0 1   277.0      4.60     27.00     99.00     99.00
11   6 21 22     15.0 1   281.0      4.10     25.10     99.00     99.00
11   6 21 23     15.0 1   278.0      3.10     24.40     99.00     99.00
11   6 21 24     15.0 1   328.0      1.50     23.90     99.00     99.00
11   6 22  1     15.0 1    47.0      2.10     23.30     99.00     99.00
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11   6 22   2     15.0 1     32.0      1.00     23.10     99.00     99.00
11   6 22   3     15.0 1      0.0      0.00     22.50     99.00     99.00
11   6 22   4     15.0 1    211.0      0.50     21.80     99.00     99.00
11   6 22   5     15.0 1      0.0      0.00     21.00     99.00     99.00
11   6 22   6     15.0 1      0.0      0.00     20.80     99.00     99.00
11   6 22   7     15.0 1      0.0      0.00     23.10     99.00     99.00
11   6 22   8     15.0 1      0.0      0.00     25.30     99.00     99.00
11   6 22   9     15.0 1      0.0      0.00     27.50     99.00     99.00
11   6 22  10     15.0 1      0.0      0.00     29.30     99.00     99.00
11   6 22  11     15.0 1      0.0      0.00     31.10     99.00     99.00
11   6 22  12     15.0 1      0.0      0.00     32.90     99.00     99.00
11   6 22  13     15.0 1      0.0      0.00     34.30     99.00     99.00
11   6 22  14     15.0 1    351.0      0.50     35.30     99.00     99.00
11   6 22  15     15.0 1    355.0      1.50     36.00     99.00     99.00
11   6 22  16     15.0 1    344.0      2.60     36.10     99.00     99.00
11   6 22  17     15.0 1    320.0      2.10     35.40     99.00     99.00
11   6 22  18     15.0 1    287.0      4.60     33.50     99.00     99.00
11   6 22  19     15.0 1    283.0      5.10     29.60     99.00     99.00
11   6 22  20     15.0 1    277.0      4.60     26.60     99.00     99.00
11   6 22  21     15.0 1    279.0      4.60     24.10     99.00     99.00
11   6 22  22     15.0 1    282.0      3.60     22.60     99.00     99.00
11   6 22  23     15.0 1    324.0      1.50     22.10     99.00     99.00
11   6 22  24     15.0 1      8.0      1.50     21.60     99.00     99.00
11   6 23   1     15.0 1    305.0      1.50     20.80     99.00     99.00
11   6 23   2     15.0 1    282.0      2.60     20.00     99.00     99.00
11   6 23   3     15.0 1    277.0      2.60     19.60     99.00     99.00
11   6 23   4     15.0 1    293.0      2.10     19.50     99.00     99.00
11   6 23   5     15.0 1    300.0      1.00     19.10     99.00     99.00
11   6 23   6     15.0 1    318.0      1.00     19.30     99.00     99.00
11   6 23   7     15.0 1      2.0      1.50     20.80     99.00     99.00
11   6 23   8     15.0 1      0.0      0.00     22.40     99.00     99.00
11   6 23   9     15.0 1      0.0      0.00     24.00     99.00     99.00
11   6 23  10     15.0 1      0.0      0.00     25.90     99.00     99.00
11   6 23  11     15.0 1      0.0      0.00     27.60     99.00     99.00
11   6 23  12     15.0 1      0.0      0.00     29.10     99.00     99.00
11   6 23  13     15.0 1    334.0      0.50     30.60     99.00     99.00
11   6 23  14     15.0 1    350.0      1.00     31.60     99.00     99.00
11   6 23  15     15.0 1    348.0      2.10     32.10     99.00     99.00
11   6 23  16     15.0 1      3.0      3.10     32.10     99.00     99.00
11   6 23  17     15.0 1      2.0      3.10     31.60     99.00     99.00
11   6 23  18     15.0 1      1.0      3.10     30.80     99.00     99.00
11   6 23  19     15.0 1    334.0      3.60     29.50     99.00     99.00
11   6 23  20     15.0 1    283.0      4.60     27.60     99.00     99.00
11   6 23  21     15.0 1    258.0      5.10     24.30     99.00     99.00
11   6 23  22     15.0 1    261.0      4.60     22.30     99.00     99.00
11   6 23  23     15.0 1    271.0      3.60     21.10     99.00     99.00
11   6 23  24     15.0 1    278.0      3.10     20.10     99.00     99.00
11   6 24   1     15.0 1    304.0      2.60     19.60     99.00     99.00
11   6 24   2     15.0 1    348.0      1.50     19.40     99.00     99.00
11   6 24   3     15.0 1      0.0      0.00     19.10     99.00     99.00
11   6 24   4     15.0 1    331.0      1.00     18.60     99.00     99.00
11   6 24   5     15.0 1    323.0      0.50     18.30     99.00     99.00
11   6 24   6     15.0 1    327.0      1.00     18.30     99.00     99.00
11   6 24   7     15.0 1    345.0      1.00     19.50     99.00     99.00
11   6 24   8     15.0 1      0.0      0.00     21.10     99.00     99.00
11   6 24   9     15.0 1      0.0      0.00     22.60     99.00     99.00
11   6 24  10     15.0 1      0.0      0.00     24.10     99.00     99.00
11   6 24  11     15.0 1      0.0      0.00     25.90     99.00     99.00
11   6 24  12     15.0 1      0.0      0.00     27.50     99.00     99.00
11   6 24  13     15.0 1      0.0      0.00     28.60     99.00     99.00
11   6 24  14     15.0 1    334.0      0.50     29.60     99.00     99.00
11   6 24  15     15.0 1    349.0      1.50     30.10     99.00     99.00
11   6 24  16     15.0 1    346.0      2.60     30.40     99.00     99.00
11   6 24  17     15.0 1    358.0      3.60     29.90     99.00     99.00
11   6 24  18     15.0 1    359.0      3.10     28.90     99.00     99.00
11   6 24  19     15.0 1    346.0      3.60     27.80     99.00     99.00
11   6 24  20     15.0 1    329.0      3.60     26.60     99.00     99.00
11   6 24  21     15.0 1    291.0      4.60     24.90     99.00     99.00
11   6 24  22     15.0 1    268.0      5.10     21.60     99.00     99.00
11   6 24  23     15.0 1    266.0      4.60     19.90     99.00     99.00
11   6 24  24     15.0 1    283.0      4.10     19.10     99.00     99.00
11   6 25   1     15.0 1    293.0      3.60     18.60     99.00     99.00
11   6 25   2     15.0 1    318.0      2.60     18.10     99.00     99.00
11   6 25   3     15.0 1      0.0      0.00     18.00     99.00     99.00
11   6 25   4     15.0 1     19.0      1.00     17.60     99.00     99.00
11   6 25   5     15.0 1      0.0      0.00     17.10     99.00     99.00
11   6 25   6     15.0 1      0.0      0.00     17.00     99.00     99.00
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11   6 25   7     15.0 1      9.0      0.50    18.60     99.00     99.00
11   6 25   8     15.0 1      0.0      0.00    20.30     99.00     99.00
11   6 25   9     15.0 1      0.0      0.00    21.90     99.00     99.00
11   6 25  10     15.0 1      0.0      0.00    23.60     99.00     99.00
11   6 25  11     15.0 1      0.0      0.00    25.10     99.00     99.00
11   6 25  12     15.0 1      0.0      0.00    26.90     99.00     99.00
11   6 25  13     15.0 1      0.0      0.00    28.10     99.00     99.00
11   6 25  14     15.0 1    349.0      0.50    29.00     99.00     99.00
11   6 25  15     15.0 1    356.0      1.50    29.60     99.00     99.00
11   6 25  16     15.0 1      0.0      0.00    29.60     99.00     99.00
11   6 25  17     15.0 1      8.0      3.60    29.30     99.00     99.00
11   6 25  18     15.0 1     12.0      3.10    28.50     99.00     99.00
11   6 25  19     15.0 1      0.0      0.00    27.60     99.00     99.00
11   6 25  20     15.0 1    349.0      3.60    26.50     99.00     99.00
11   6 25  21     15.0 1    325.0      3.60    25.50     99.00     99.00
11   6 25  22     15.0 1    292.0      4.10    23.50     99.00     99.00
11   6 25  23     15.0 1    281.0      4.10    21.60     99.00     99.00
11   6 25  24     15.0 1    312.0      3.60    20.60     99.00     99.00
11   6 26   1     15.0 1    342.0      3.60    19.60     99.00     99.00
11   6 26   2     15.0 1    355.0      3.10    18.60     99.00     99.00
11   6 26   3     15.0 1      3.0      2.60    17.90     99.00     99.00
11   6 26   4     15.0 1    355.0      2.10    17.30     99.00     99.00
11   6 26   5     15.0 1    359.0      1.50    16.60     99.00     99.00
11   6 26   6     15.0 1      0.0      0.00    16.50     99.00     99.00
11   6 26   7     15.0 1      0.0      0.00    17.50     99.00     99.00
11   6 26   8     15.0 1    326.0      0.50    19.30     99.00     99.00
11   6 26   9     15.0 1      0.0      0.00    21.00     99.00     99.00
11   6 26  10     15.0 1      0.0      0.00    22.60     99.00     99.00
11   6 26  11     15.0 1      0.0      0.00    24.40     99.00     99.00
11   6 26  12     15.0 1      0.0      0.00    25.90     99.00     99.00
11   6 26  13     15.0 1      0.0      0.00    27.10     99.00     99.00
11   6 26  14     15.0 1    356.0      0.50    28.10     99.00     99.00
11   6 26  15     15.0 1     12.0      1.50    28.80     99.00     99.00
11   6 26  16     15.0 1     10.0      2.10    29.10     99.00     99.00
11   6 26  17     15.0 1      8.0      3.10    29.00     99.00     99.00
11   6 26  18     15.0 1     14.0      2.60    28.30     99.00     99.00
11   6 26  19     15.0 1      8.0      3.60    27.40     99.00     99.00
11   6 26  20     15.0 1      0.0      0.00    26.10     99.00     99.00
11   6 26  21     15.0 1    353.0      2.10    25.10     99.00     99.00
11   6 26  22     15.0 1    290.0      1.50    24.10     99.00     99.00
11   6 26  23     15.0 1    259.0      2.60    22.80     99.00     99.00
11   6 26  24     15.0 1    273.0      2.10    21.60     99.00     99.00
11   6 27   1     15.0 1    311.0      2.10    21.00     99.00     99.00
11   6 27   2     15.0 1    345.0      3.60    20.10     99.00     99.00
11   6 27   3     15.0 1    356.0      3.60    18.80     99.00     99.00
11   6 27   4     15.0 1    358.0      3.10    17.90     99.00     99.00
11   6 27   5     15.0 1    356.0      2.60    17.30     99.00     99.00
11   6 27   6     15.0 1    356.0      2.10    17.30     99.00     99.00
11   6 27   7     15.0 1    350.0      1.50    18.60     99.00     99.00
11   6 27   8     15.0 1      0.0      0.00    20.60     99.00     99.00
11   6 27   9     15.0 1      0.0      0.00    22.80     99.00     99.00
11   6 27  10     15.0 1      0.0      0.00    24.60     99.00     99.00
11   6 27  11     15.0 1    295.0      0.50    26.30     99.00     99.00
11   6 27  12     15.0 1      0.0      0.00    27.80     99.00     99.00
11   6 27  13     15.0 1      0.0      0.00    28.90     99.00     99.00
11   6 27  14     15.0 1     18.0      0.50    29.90     99.00     99.00
11   6 27  15     15.0 1     22.0      1.50    30.50     99.00     99.00
11   6 27  16     15.0 1     27.0      2.10    30.80     99.00     99.00
11   6 27  17     15.0 1     27.0      2.60    30.60     99.00     99.00
11   6 27  18     15.0 1     35.0      2.60    30.10     99.00     99.00
11   6 27  19     15.0 1      0.0      0.00    29.60     99.00     99.00
11   6 27  20     15.0 1    282.0      4.60    27.60     99.00     99.00
11   6 27  21     15.0 1    273.0      5.70    22.60     99.00     99.00
11   6 27  22     15.0 1    258.0      5.10    21.10     99.00     99.00
11   6 27  23     15.0 1    283.0      4.10    20.00     99.00     99.00
11   6 27  24     15.0 1    305.0      3.10    19.50     99.00     99.00
11   6 28   1     15.0 1    327.0      3.10    19.40     99.00     99.00
11   6 28   2     15.0 1    337.0      3.10    19.10     99.00     99.00
11   6 28   3     15.0 1    336.0      2.60    18.50     99.00     99.00
11   6 28   4     15.0 1    335.0      2.10    17.90     99.00     99.00
11   6 28   5     15.0 1    342.0      2.10    17.10     99.00     99.00
11   6 28   6     15.0 1    348.0      2.10    17.10     99.00     99.00
11   6 28   7     15.0 1    347.0      2.10    18.00     99.00     99.00
11   6 28   8     15.0 1    329.0      1.00    19.80     99.00     99.00
11   6 28   9     15.0 1    334.0      0.50    21.50     99.00     99.00
11   6 28  10     15.0 1      0.0      0.00    23.10     99.00     99.00
11   6 28  11     15.0 1      0.0      0.00    24.90     99.00     99.00
```

```
11   6 28 12    15.0 1     0.0     0.00    26.60    99.00    99.00
11   6 28 13    15.0 1   343.0     0.50    28.10    99.00    99.00
11   6 28 14    15.0 1   347.0     1.00    29.30    99.00    99.00
11   6 28 15    15.0 1     5.0     1.50    30.10    99.00    99.00
11   6 28 16    15.0 1   342.0     2.10    30.60    99.00    99.00
11   6 28 17    15.0 1   296.0     3.60    30.10    99.00    99.00
11   6 28 18    15.0 1   282.0     5.70    27.00    99.00    99.00
11   6 28 19    15.0 1   285.0     5.70    23.10    99.00    99.00
11   6 28 20    15.0 1   284.0     5.10    21.00    99.00    99.00
11   6 28 21    15.0 1   276.0     4.60    19.10    99.00    99.00
11   6 28 22    15.0 1   294.0     3.10    18.10    99.00    99.00
11   6 28 23    15.0 1   332.0     2.10    17.60    99.00    99.00
11   6 28 24    15.0 1   278.0     3.10    16.90    99.00    99.00
11   6 29  1    15.0 1   256.0     3.60    16.10    99.00    99.00
11   6 29  2    15.0 1   249.0     3.10    15.80    99.00    99.00
11   6 29  3    15.0 1   262.0     3.10    15.60    99.00    99.00
11   6 29  4    15.0 1   272.0     3.10    16.00    99.00    99.00
11   6 29  5    15.0 1   289.0     2.60    16.10    99.00    99.00
11   6 29  6    15.0 1   316.0     2.10    16.10    99.00    99.00
11   6 29  7    15.0 1   319.0     2.60    16.00    99.00    99.00
11   6 29  8    15.0 1   338.0     2.60    16.00    99.00    99.00
11   6 29  9    15.0 1   360.0     2.60    16.10    99.00    99.00
11   6 29 10    15.0 1   355.0     2.10    16.60    99.00    99.00
11   6 29 11    15.0 1   302.0     0.50    19.00    99.00    99.00
11   6 29 12    15.0 1     0.0     0.00    20.60    99.00    99.00
11   6 29 13    15.0 1   305.0     0.50    22.00    99.00    99.00
11   6 29 14    15.0 1   306.0     1.50    23.10    99.00    99.00
11   6 29 15    15.0 1   334.0     2.60    23.60    99.00    99.00
11   6 29 16    15.0 1   335.0     3.10    24.10    99.00    99.00
11   6 29 17    15.0 1   343.0     3.60    24.10    99.00    99.00
11   6 29 18    15.0 1   337.0     3.10    23.60    99.00    99.00
11   6 29 19    15.0 1   355.0     4.10    22.00    99.00    99.00
11   6 29 20    15.0 1   352.0     4.10    20.10    99.00    99.00
11   6 29 21    15.0 1   339.0     3.60    19.00    99.00    99.00
11   6 29 22    15.0 1   342.0     3.10    18.10    99.00    99.00
11   6 29 23    15.0 1   344.0     2.60    17.60    99.00    99.00
11   6 29 24    15.0 1   347.0     2.10    17.40    99.00    99.00
11   6 30  1    15.0 1   338.0     1.00    16.90    99.00    99.00
11   6 30  2    15.0 1   313.0     0.50    16.50    99.00    99.00
11   6 30  3    15.0 1   300.0     0.50    16.00    99.00    99.00
11   6 30  4    15.0 1   306.0     1.00    15.60    99.00    99.00
11   6 30  5    15.0 1   318.0     1.00    15.10    99.00    99.00
11   6 30  6    15.0 1   317.0     1.00    15.30    99.00    99.00
11   6 30  7    15.0 1   354.0     0.50    17.10    99.00    99.00
11   6 30  8    15.0 1     0.0     0.00    18.60    99.00    99.00
11   6 30  9    15.0 1     0.0     0.00    20.10    99.00    99.00
11   6 30 10    15.0 1     0.0     0.00    21.90    99.00    99.00
11   6 30 11    15.0 1     0.0     0.00    23.50    99.00    99.00
11   6 30 12    15.0 1     0.0     0.00    24.80    99.00    99.00
11   6 30 13    15.0 1     0.0     0.00    25.90    99.00    99.00
11   6 30 14    15.0 1   349.0     1.00    26.80    99.00    99.00
11   6 30 15    15.0 1     5.0     1.50    27.50    99.00    99.00
11   6 30 16    15.0 1     0.0     0.00    27.90    99.00    99.00
11   6 30 17    15.0 1    12.0     2.60    28.00    99.00    99.00
11   6 30 18    15.0 1    22.0     2.10    27.80    99.00    99.00
11   6 30 19    15.0 1     8.0     2.10    27.30    99.00    99.00
11   6 30 20    15.0 1     0.0     0.00    26.10    99.00    99.00
11   6 30 21    15.0 1     0.0     0.00    25.10    99.00    99.00
11   6 30 22    15.0 1   222.0     0.50    23.80    99.00    99.00
11   6 30 23    15.0 1   237.0     0.50    22.60    99.00    99.00
11   6 30 24    15.0 1   127.0     1.00    21.80    99.00    99.00
11   7  1  1    15.0 1   118.0     1.00    21.10    99.00    99.00
11   7  1  2    15.0 1   345.0     1.00    20.60    99.00    99.00
11   7  1  3    15.0 1   354.0     1.50    20.10    99.00    99.00
11   7  1  4    15.0 1   338.0     1.50    19.40    99.00    99.00
11   7  1  5    15.0 1   331.0     2.10    18.80    99.00    99.00
11   7  1  6    15.0 1   330.0     1.50    18.60    99.00    99.00
11   7  1  7    15.0 1   342.0     1.50    19.90    99.00    99.00
11   7  1  8    15.0 1   304.0     0.50    21.80    99.00    99.00
11   7  1  9    15.0 1     0.0     0.00    23.60    99.00    99.00
11   7  1 10    15.0 1     0.0     0.00    25.40    99.00    99.00
11   7  1 11    15.0 1   318.0     0.50    27.10    99.00    99.00
11   7  1 12    15.0 1   331.0     0.50    28.60    99.00    99.00
11   7  1 13    15.0 1   352.0     0.50    30.10    99.00    99.00
11   7  1 14    15.0 1   360.0     1.00    31.30    99.00    99.00
11   7  1 15    15.0 1     1.0     1.50    32.00    99.00    99.00
11   7  1 16    15.0 1     0.0     0.00    32.30    99.00    99.00
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```
11  7  1 17    15.0 1     0.0     0.00    32.10    99.00    99.00
11  7  1 18    15.0 1   353.0     2.10    31.80    99.00    99.00
11  7  1 19    15.0 1   348.0     2.60    30.90    99.00    99.00
11  7  1 20    15.0 1   355.0     2.10    29.50    99.00    99.00
11  7  1 21    15.0 1   340.0     1.50    28.10    99.00    99.00
11  7  1 22    15.0 1   325.0     1.00    26.90    99.00    99.00
11  7  1 23    15.0 1   283.0     2.10    25.60    99.00    99.00
11  7  1 24    15.0 1   294.0     2.60    24.50    99.00    99.00
11  7  2  1    15.0 1   300.0     2.10    23.60    99.00    99.00
11  7  2  2    15.0 1   311.0     2.10    23.00    99.00    99.00
11  7  2  3    15.0 1   335.0     2.10    22.40    99.00    99.00
11  7  2  4    15.0 1   341.0     2.10    21.60    99.00    99.00
11  7  2  5    15.0 1   340.0     1.50    21.00    99.00    99.00
11  7  2  6    15.0 1   322.0     1.00    20.60    99.00    99.00
11  7  2  7    15.0 1   341.0     1.50    22.00    99.00    99.00
11  7  2  8    15.0 1   315.0     0.50    23.90    99.00    99.00
11  7  2  9    15.0 1     0.0     0.00    26.50    99.00    99.00
11  7  2 10    15.0 1   304.0     0.50    28.40    99.00    99.00
11  7  2 11    15.0 1     0.0     0.00    30.40    99.00    99.00
11  7  2 12    15.0 1     0.0     0.00    32.30    99.00    99.00
11  7  2 13    15.0 1   344.0     1.00    33.80    99.00    99.00
11  7  2 14    15.0 1     0.0     0.00    34.80    99.00    99.00
11  7  2 15    15.0 1    12.0     3.10    35.10    99.00    99.00
11  7  2 16    15.0 1    13.0     3.60    35.00    99.00    99.00
11  7  2 17    15.0 1     8.0     2.60    34.40    99.00    99.00
11  7  2 18    15.0 1     0.0     0.00    34.10    99.00    99.00
11  7  2 19    15.0 1   345.0     2.60    33.30    99.00    99.00
11  7  2 20    15.0 1   307.0     3.10    32.10    99.00    99.00
11  7  2 21    15.0 1   293.0     5.10    29.10    99.00    99.00
11  7  2 22    15.0 1   279.0     4.10    26.30    99.00    99.00
11  7  2 23    15.0 1   276.0     3.60    25.30    99.00    99.00
11  7  2 24    15.0 1   292.0     3.60    25.10    99.00    99.00
11  7  3  1    15.0 1   299.0     3.10    25.30    99.00    99.00
11  7  3  2    15.0 1   304.0     3.10    24.90    99.00    99.00
11  7  3  3    15.0 1   286.0     2.60    24.40    99.00    99.00
11  7  3  4    15.0 1   267.0     1.50    23.80    99.00    99.00
11  7  3  5    15.0 1   241.0     0.50    23.30    99.00    99.00
11  7  3  6    15.0 1     0.0     0.00    23.00    99.00    99.00
11  7  3  7    15.0 1   336.0     0.50    23.90    99.00    99.00
11  7  3  8    15.0 1     0.0     0.00    25.50    99.00    99.00
11  7  3  9    15.0 1     0.0     0.00    27.30    99.00    99.00
11  7  3 10    15.0 1   321.0     0.50    28.90    99.00    99.00
11  7  3 11    15.0 1   321.0     1.00    30.60    99.00    99.00
11  7  3 12    15.0 1   324.0     1.50    32.10    99.00    99.00
11  7  3 13    15.0 1   319.0     1.50    33.30    99.00    99.00
11  7  3 14    15.0 1   326.0     1.50    34.30    99.00    99.00
11  7  3 15    15.0 1   337.0     2.10    34.90    99.00    99.00
11  7  3 16    15.0 1   348.0     2.60    35.10    99.00    99.00
11  7  3 17    15.0 1     0.0     0.00    34.60    99.00    99.00
11  7  3 18    15.0 1     7.0     2.60    34.10    99.00    99.00
11  7  3 19    15.0 1   347.0     3.10    33.10    99.00    99.00
11  7  3 20    15.0 1   319.0     3.60    31.90    99.00    99.00
11  7  3 21    15.0 1   286.0     4.60    29.60    99.00    99.00
11  7  3 22    15.0 1   285.0     4.10    27.00    99.00    99.00
11  7  3 23    15.0 1   275.0     3.60    25.60    99.00    99.00
11  7  3 24    15.0 1   271.0     3.60    24.80    99.00    99.00
11  7  4  1    15.0 1   285.0     3.10    24.80    99.00    99.00
11  7  4  2    15.0 1   289.0     3.10    24.80    99.00    99.00
11  7  4  3    15.0 1   320.0     2.10    24.40    99.00    99.00
11  7  4  4    15.0 1   341.0     1.00    23.80    99.00    99.00
11  7  4  5    15.0 1     6.0     0.50    23.10    99.00    99.00
11  7  4  6    15.0 1    15.0     0.50    23.00    99.00    99.00
11  7  4  7    15.0 1   351.0     1.50    23.90    99.00    99.00
11  7  4  8    15.0 1   329.0     0.50    25.50    99.00    99.00
11  7  4  9    15.0 1     0.0     0.00    27.60    99.00    99.00
11  7  4 10    15.0 1     0.0     0.00    29.30    99.00    99.00
11  7  4 11    15.0 1     0.0     0.00    30.90    99.00    99.00
11  7  4 12    15.0 1   262.0     0.50    32.50    99.00    99.00
11  7  4 13    15.0 1   304.0     0.50    33.90    99.00    99.00
11  7  4 14    15.0 1     0.0     0.00    34.80    99.00    99.00
11  7  4 15    15.0 1    53.0     2.10    35.30    99.00    99.00
11  7  4 16    15.0 1    15.0     2.60    35.40    99.00    99.00
11  7  4 17    15.0 1     8.0     2.10    35.10    99.00    99.00
11  7  4 18    15.0 1   354.0     1.50    35.10    99.00    99.00
11  7  4 19    15.0 1   310.0     3.10    34.50    99.00    99.00
11  7  4 20    15.0 1   277.0     5.10    30.80    99.00    99.00
11  7  4 21    15.0 1   285.0     4.10    27.60    99.00    99.00
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11  7  4 22    15.0 1   294.0     3.10    26.40    99.00    99.00
11  7  4 23    15.0 1   307.0     2.60    25.80    99.00    99.00
11  7  4 24    15.0 1   331.0     2.60    25.10    99.00    99.00
11  7  5  1    15.0 1    16.0     3.10    24.60    99.00    99.00
11  7  5  2    15.0 1    33.0     4.10    24.10    99.00    99.00
11  7  5  3    15.0 1    24.0     4.10    23.30    99.00    99.00
11  7  5  4    15.0 1    22.0     3.60    22.60    99.00    99.00
11  7  5  5    15.0 1    17.0     3.60    22.10    99.00    99.00
11  7  5  6    15.0 1    26.0     2.60    22.40    99.00    99.00
11  7  5  7    15.0 1    23.0     1.50    24.10    99.00    99.00
11  7  5  8    15.0 1    18.0     0.50    26.00    99.00    99.00
11  7  5  9    15.0 1     0.0     0.00    28.10    99.00    99.00
11  7  5 10    15.0 1     0.0     0.00    29.80    99.00    99.00
11  7  5 11    15.0 1     0.0     0.00    31.60    99.00    99.00
11  7  5 12    15.0 1   291.0     0.50    33.10    99.00    99.00
11  7  5 13    15.0 1   298.0     0.50    34.40    99.00    99.00
11  7  5 14    15.0 1   312.0     0.50    35.40    99.00    99.00
11  7  5 15    15.0 1   355.0     0.50    36.10    99.00    99.00
11  7  5 16    15.0 1     0.0     0.00    36.40    99.00    99.00
11  7  5 17    15.0 1     0.0     0.00    35.90    99.00    99.00
11  7  5 18    15.0 1   317.0     3.60    35.30    99.00    99.00
11  7  5 19    15.0 1   291.0     5.10    32.50    99.00    99.00
11  7  5 20    15.0 1   273.0     4.60    29.10    99.00    99.00
11  7  5 21    15.0 1   281.0     4.10    27.10    99.00    99.00
11  7  5 22    15.0 1   296.0     3.60    26.10    99.00    99.00
11  7  5 23    15.0 1     6.0     3.10    25.80    99.00    99.00
11  7  5 24    15.0 1    34.0     3.60    25.30    99.00    99.00
11  7  6  1    15.0 1    29.0     3.60    24.90    99.00    99.00
11  7  6  2    15.0 1    29.0     3.60    24.30    99.00    99.00
11  7  6  3    15.0 1    34.0     4.10    23.60    99.00    99.00
11  7  6  4    15.0 1    31.0     3.60    23.10    99.00    99.00
11  7  6  5    15.0 1    39.0     2.60    22.90    99.00    99.00
11  7  6  6    15.0 1    52.0     1.50    22.90    99.00    99.00
11  7  6  7    15.0 1    33.0     1.00    24.40    99.00    99.00
11  7  6  8    15.0 1    72.0     0.50    26.10    99.00    99.00
11  7  6  9    15.0 1     0.0     0.00    28.30    99.00    99.00
11  7  6 10    15.0 1     0.0     0.00    29.80    99.00    99.00
11  7  6 11    15.0 1   285.0     0.50    31.10    99.00    99.00
11  7  6 12    15.0 1   257.0     0.50    32.10    99.00    99.00
11  7  6 13    15.0 1   278.0     0.50    33.40    99.00    99.00
11  7  6 14    15.0 1   291.0     0.50    34.50    99.00    99.00
11  7  6 15    15.0 1   338.0     0.50    35.30    99.00    99.00
11  7  6 16    15.0 1    14.0     2.10    35.60    99.00    99.00
11  7  6 17    15.0 1     8.0     2.60    35.30    99.00    99.00
11  7  6 18    15.0 1   332.0     3.60    34.90    99.00    99.00
11  7  6 19    15.0 1   295.0     5.10    32.00    99.00    99.00
11  7  6 20    15.0 1   280.0     4.60    28.90    99.00    99.00
11  7  6 21    15.0 1   282.0     4.10    27.10    99.00    99.00
11  7  6 22    15.0 1   305.0     3.10    26.30    99.00    99.00
11  7  6 23    15.0 1   348.0     2.60    26.10    99.00    99.00
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11  7  7  4    15.0 1    27.0     2.60    23.60    99.00    99.00
11  7  7  5    15.0 1    34.0     1.50    23.60    99.00    99.00
11  7  7  6    15.0 1    32.0     1.00    23.50    99.00    99.00
11  7  7  7    15.0 1   347.0     0.50    24.10    99.00    99.00
11  7  7  8    15.0 1     0.0     0.00    25.40    99.00    99.00
11  7  7  9    15.0 1     0.0     0.00    26.90    99.00    99.00
11  7  7 10    15.0 1     0.0     0.00    28.30    99.00    99.00
11  7  7 11    15.0 1     0.0     0.00    29.90    99.00    99.00
11  7  7 12    15.0 1    11.0     0.50    31.40    99.00    99.00
11  7  7 13    15.0 1    19.0     0.50    32.60    99.00    99.00
11  7  7 14    15.0 1     7.0     1.00    33.60    99.00    99.00
11  7  7 15    15.0 1    10.0     1.50    34.40    99.00    99.00
11  7  7 16    15.0 1   359.0     2.10    34.60    99.00    99.00
11  7  7 17    15.0 1   340.0     2.10    34.40    99.00    99.00
11  7  7 18    15.0 1   305.0     3.10    33.80    99.00    99.00
11  7  7 19    15.0 1   294.0     4.60    31.10    99.00    99.00
11  7  7 20    15.0 1   276.0     4.60    28.30    99.00    99.00
11  7  7 21    15.0 1   279.0     4.10    26.30    99.00    99.00
11  7  7 22    15.0 1   289.0     4.10    24.60    99.00    99.00
11  7  7 23    15.0 1   278.0     3.10    23.90    99.00    99.00
11  7  7 24    15.0 1   266.0     1.00    23.50    99.00    99.00
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11  7  8  2    15.0 1    52.0     1.00    22.80    99.00    99.00
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```
11  7  8  3    15.0 1   356.0     1.50    22.10    99.00    99.00
11  7  8  4    15.0 1   336.0     3.10    21.30    99.00    99.00
11  7  8  5    15.0 1   318.0     2.10    20.40    99.00    99.00
11  7  8  6    15.0 1   305.0     1.50    20.60    99.00    99.00
11  7  8  7    15.0 1   280.0     1.50    22.10    99.00    99.00
11  7  8  8    15.0 1     0.0     0.00    24.30    99.00    99.00
11  7  8  9    15.0 1     0.0     0.00    26.50    99.00    99.00
11  7  8 10    15.0 1     0.0     0.00    28.10    99.00    99.00
11  7  8 11    15.0 1     0.0     0.00    30.00    99.00    99.00
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11  7  8 13    15.0 1   312.0     0.50    32.90    99.00    99.00
11  7  8 14    15.0 1   327.0     0.50    33.90    99.00    99.00
11  7  8 15    15.0 1   355.0     1.50    34.50    99.00    99.00
11  7  8 16    15.0 1   353.0     2.60    34.60    99.00    99.00
11  7  8 17    15.0 1   353.0     2.10    34.40    99.00    99.00
11  7  8 18    15.0 1   296.0     3.60    33.60    99.00    99.00
11  7  8 19    15.0 1   279.0     5.10    29.60    99.00    99.00
11  7  8 20    15.0 1   267.0     5.10    26.10    99.00    99.00
11  7  8 21    15.0 1   271.0     5.10    23.90    99.00    99.00
11  7  8 22    15.0 1   268.0     4.60    22.40    99.00    99.00
11  7  8 23    15.0 1   278.0     2.60    21.60    99.00    99.00
11  7  8 24    15.0 1     3.0     1.00    21.50    99.00    99.00
11  7  9  1    15.0 1    33.0     1.50    21.10    99.00    99.00
11  7  9  2    15.0 1   352.0     1.50    20.40    99.00    99.00
11  7  9  3    15.0 1   332.0     2.10    19.60    99.00    99.00
11  7  9  4    15.0 1   340.0     1.50    18.90    99.00    99.00
11  7  9  5    15.0 1   348.0     1.00    18.50    99.00    99.00
11  7  9  6    15.0 1   307.0     1.50    18.80    99.00    99.00
11  7  9  7    15.0 1   301.0     2.10    20.30    99.00    99.00
11  7  9  8    15.0 1   294.0     0.50    22.30    99.00    99.00
11  7  9  9    15.0 1     0.0     0.00    24.30    99.00    99.00
11  7  9 10    15.0 1     0.0     0.00    26.30    99.00    99.00
11  7  9 11    15.0 1     0.0     0.00    28.30    99.00    99.00
11  7  9 12    15.0 1   315.0     0.50    30.10    99.00    99.00
11  7  9 13    15.0 1   318.0     0.50    31.40    99.00    99.00
11  7  9 14    15.0 1   342.0     1.00    32.40    99.00    99.00
11  7  9 15    15.0 1   338.0     1.50    33.10    99.00    99.00
11  7  9 16    15.0 1   346.0     2.60    33.50    99.00    99.00
11  7  9 17    15.0 1   354.0     2.10    33.10    99.00    99.00
11  7  9 18    15.0 1   316.0     2.60    32.50    99.00    99.00
11  7  9 19    15.0 1   276.0     4.60    30.30    99.00    99.00
11  7  9 20    15.0 1   275.0     5.70    25.60    99.00    99.00
11  7  9 21    15.0 1   261.0     5.10    23.10    99.00    99.00
11  7  9 22    15.0 1   264.0     4.60    21.80    99.00    99.00
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11  7  9 24    15.0 1   284.0     3.10    20.60    99.00    99.00
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11  7 10  2    15.0 1   321.0     1.00    20.30    99.00    99.00
11  7 10  3    15.0 1   352.0     0.50    20.10    99.00    99.00
11  7 10  4    15.0 1     4.0     0.50    19.60    99.00    99.00
11  7 10  5    15.0 1   341.0     0.50    19.10    99.00    99.00
11  7 10  6    15.0 1   339.0     1.50    18.90    99.00    99.00
11  7 10  7    15.0 1   355.0     2.10    20.10    99.00    99.00
11  7 10  8    15.0 1   350.0     1.00    21.90    99.00    99.00
11  7 10  9    15.0 1     0.0     0.00    23.60    99.00    99.00
11  7 10 10    15.0 1     0.0     0.00    25.50    99.00    99.00
11  7 10 11    15.0 1     0.0     0.00    27.00    99.00    99.00
11  7 10 12    15.0 1     0.0     0.00    28.50    99.00    99.00
11  7 10 13    15.0 1   343.0     0.50    29.90    99.00    99.00
11  7 10 14    15.0 1   355.0     1.50    31.00    99.00    99.00
11  7 10 15    15.0 1     0.0     0.00    31.60    99.00    99.00
11  7 10 16    15.0 1     0.0     0.00    31.80    99.00    99.00
11  7 10 17    15.0 1    12.0     2.60    31.50    99.00    99.00
11  7 10 18    15.0 1     9.0     2.60    30.90    99.00    99.00
11  7 10 19    15.0 1     2.0     3.10    30.10    99.00    99.00
11  7 10 20    15.0 1   294.0     3.60    28.90    99.00    99.00
11  7 10 21    15.0 1   264.0     5.70    24.50    99.00    99.00
11  7 10 22    15.0 1   259.0     4.60    22.30    99.00    99.00
11  7 10 23    15.0 1   271.0     3.60    21.40    99.00    99.00
11  7 10 24    15.0 1   294.0     3.10    21.10    99.00    99.00
11  7 11  1    15.0 1   306.0     2.60    20.90    99.00    99.00
11  7 11  2    15.0 1   342.0     2.10    20.40    99.00    99.00
11  7 11  3    15.0 1   351.0     2.10    19.90    99.00    99.00
11  7 11  4    15.0 1   354.0     2.10    19.30    99.00    99.00
11  7 11  5    15.0 1   341.0     2.10    18.60    99.00    99.00
11  7 11  6    15.0 1   337.0     2.10    18.30    99.00    99.00
11  7 11  7    15.0 1   345.0     2.10    19.40    99.00    99.00
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11  7 11  8    15.0 1   331.0     0.50    20.80    99.00    99.00
11  7 11  9    15.0 1     0.0     0.00    22.50    99.00    99.00
11  7 11 10    15.0 1     0.0     0.00    24.40    99.00    99.00
11  7 11 11    15.0 1     0.0     0.00    26.10    99.00    99.00
11  7 11 12    15.0 1   314.0     0.50    27.60    99.00    99.00
11  7 11 13    15.0 1   328.0     0.50    28.90    99.00    99.00
11  7 11 14    15.0 1   344.0     1.50    29.80    99.00    99.00
11  7 11 15    15.0 1   344.0     2.10    30.40    99.00    99.00
11  7 11 16    15.0 1   342.0     3.10    30.60    99.00    99.00
11  7 11 17    15.0 1   329.0     3.10    30.30    99.00    99.00
11  7 11 18    15.0 1   289.0     3.60    29.30    99.00    99.00
11  7 11 19    15.0 1   274.0     5.10    26.10    99.00    99.00
11  7 11 20    15.0 1   268.0     5.70    22.60    99.00    99.00
11  7 11 21    15.0 1   270.0     5.70    20.90    99.00    99.00
11  7 11 22    15.0 1   282.0     4.10    19.80    99.00    99.00
11  7 11 23    15.0 1   283.0     3.10    19.00    99.00    99.00
11  7 11 24    15.0 1   296.0     2.60    18.50    99.00    99.00
11  7 12  1    15.0 1   323.0     2.10    18.30    99.00    99.00
11  7 12  2    15.0 1   333.0     2.10    18.10    99.00    99.00
11  7 12  3    15.0 1   333.0     2.10    17.60    99.00    99.00
11  7 12  4    15.0 1   344.0     2.10    17.10    99.00    99.00
11  7 12  5    15.0 1   347.0     2.10    16.60    99.00    99.00
11  7 12  6    15.0 1     0.0     0.00    16.40    99.00    99.00
11  7 12  7    15.0 1     0.0     0.00    17.30    99.00    99.00
11  7 12  8    15.0 1   344.0     0.50    18.60    99.00    99.00
11  7 12  9    15.0 1     0.0     0.00    20.10    99.00    99.00
11  7 12 10    15.0 1     0.0     0.00    21.90    99.00    99.00
11  7 12 11    15.0 1     0.0     0.00    23.60    99.00    99.00
11  7 12 12    15.0 1     0.0     0.00    25.50    99.00    99.00
11  7 12 13    15.0 1   336.0     1.00    26.60    99.00    99.00
11  7 12 14    15.0 1   357.0     1.50    27.60    99.00    99.00
11  7 12 15    15.0 1    11.0     2.10    28.10    99.00    99.00
11  7 12 16    15.0 1     6.0     2.60    28.50    99.00    99.00
11  7 12 17    15.0 1     9.0     3.10    28.40    99.00    99.00
11  7 12 18    15.0 1    13.0     2.60    28.00    99.00    99.00
11  7 12 19    15.0 1   340.0     3.10    27.40    99.00    99.00
11  7 12 20    15.0 1   274.0     5.10    24.60    99.00    99.00
11  7 12 21    15.0 1   268.0     6.70    20.80    99.00    99.00
11  7 12 22    15.0 1   273.0     5.10    19.10    99.00    99.00
11  7 12 23    15.0 1   282.0     4.10    18.40    99.00    99.00
11  7 12 24    15.0 1   285.0     3.60    17.60    99.00    99.00
11  7 13  1    15.0 1   299.0     2.60    17.10    99.00    99.00
11  7 13  2    15.0 1   329.0     2.10    16.90    99.00    99.00
11  7 13  3    15.0 1   328.0     1.50    16.60    99.00    99.00
11  7 13  4    15.0 1   316.0     2.10    16.10    99.00    99.00
11  7 13  5    15.0 1   319.0     2.60    15.80    99.00    99.00
11  7 13  6    15.0 1   318.0     2.60    15.80    99.00    99.00
11  7 13  7    15.0 1   330.0     1.50    16.60    99.00    99.00
11  7 13  8    15.0 1     0.0     0.00    17.90    99.00    99.00
11  7 13  9    15.0 1     0.0     0.00    19.40    99.00    99.00
11  7 13 10    15.0 1     0.0     0.00    20.90    99.00    99.00
11  7 13 11    15.0 1     0.0     0.00    22.60    99.00    99.00
11  7 13 12    15.0 1     0.0     0.00    24.10    99.00    99.00
11  7 13 13    15.0 1     0.0     0.00    25.40    99.00    99.00
11  7 13 14    15.0 1   342.0     0.50    26.50    99.00    99.00
11  7 13 15    15.0 1   357.0     1.50    27.10    99.00    99.00
11  7 13 16    15.0 1   357.0     3.10    27.30    99.00    99.00
11  7 13 17    15.0 1     0.0     0.00    27.00    99.00    99.00
11  7 13 18    15.0 1     0.0     0.00    26.40    99.00    99.00
11  7 13 19    15.0 1   352.0     4.10    24.60    99.00    99.00
11  7 13 20    15.0 1   330.0     4.10    22.80    99.00    99.00
11  7 13 21    15.0 1   318.0     3.60    22.10    99.00    99.00
11  7 13 22    15.0 1   309.0     3.10    21.60    99.00    99.00
11  7 13 23    15.0 1   307.0     3.60    20.80    99.00    99.00
11  7 13 24    15.0 1   308.0     3.60    19.10    99.00    99.00
11  7 14  1    15.0 1   308.0     3.10    17.90    99.00    99.00
11  7 14  2    15.0 1   323.0     3.10    17.00    99.00    99.00
11  7 14  3    15.0 1   334.0     2.60    16.30    99.00    99.00
11  7 14  4    15.0 1   331.0     2.60    15.80    99.00    99.00
11  7 14  5    15.0 1   338.0     2.60    15.40    99.00    99.00
11  7 14  6    15.0 1   353.0     3.60    15.10    99.00    99.00
11  7 14  7    15.0 1   352.0     2.60    15.60    99.00    99.00
11  7 14  8    15.0 1   345.0     1.50    16.60    99.00    99.00
11  7 14  9    15.0 1     0.0     0.00    17.60    99.00    99.00
11  7 14 10    15.0 1     0.0     0.00    18.90    99.00    99.00
11  7 14 11    15.0 1     0.0     0.00    20.50    99.00    99.00
11  7 14 12    15.0 1     0.0     0.00    22.10    99.00    99.00
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11  7 14 13    15.0 1     0.0     0.00    23.50    99.00    99.00
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11  7 14 15    15.0 1     4.0     1.50    25.50    99.00    99.00
11  7 14 16    15.0 1    26.0     1.50    26.00    99.00    99.00
11  7 14 17    15.0 1    28.0     2.60    26.10    99.00    99.00
11  7 14 18    15.0 1    37.0     2.10    26.00    99.00    99.00
11  7 14 19    15.0 1   355.0     1.00    25.60    99.00    99.00
11  7 14 20    15.0 1   261.0     4.60    23.10    99.00    99.00
11  7 14 21    15.0 1   275.0     5.70    19.90    99.00    99.00
11  7 14 22    15.0 1   266.0     5.10    18.80    99.00    99.00
11  7 14 23    15.0 1   276.0     4.10    17.90    99.00    99.00
11  7 14 24    15.0 1   290.0     3.10    16.90    99.00    99.00
11  7 15  1    15.0 1   300.0     3.10    16.10    99.00    99.00
11  7 15  2    15.0 1   314.0     3.10    15.40    99.00    99.00
11  7 15  3    15.0 1   318.0     2.60    14.90    99.00    99.00
11  7 15  4    15.0 1   318.0     2.60    14.50    99.00    99.00
11  7 15  5    15.0 1   304.0     2.60    14.30    99.00    99.00
11  7 15  6    15.0 1   288.0     3.10    14.10    99.00    99.00
11  7 15  7    15.0 1   304.0     2.10    14.60    99.00    99.00
11  7 15  8    15.0 1   296.0     0.50    16.00    99.00    99.00
11  7 15  9    15.0 1     0.0     0.00    17.50    99.00    99.00
11  7 15 10    15.0 1     0.0     0.00    19.10    99.00    99.00
11  7 15 11    15.0 1     0.0     0.00    20.60    99.00    99.00
11  7 15 12    15.0 1     0.0     0.00    22.10    99.00    99.00
11  7 15 13    15.0 1     0.0     0.00    23.50    99.00    99.00
11  7 15 14    15.0 1     0.0     0.00    24.50    99.00    99.00
11  7 15 15    15.0 1    18.0     0.50    25.10    99.00    99.00
11  7 15 16    15.0 1    18.0     1.50    25.60    99.00    99.00
11  7 15 17    15.0 1    18.0     2.60    25.60    99.00    99.00
11  7 15 18    15.0 1    31.0     2.60    25.10    99.00    99.00
11  7 15 19    15.0 1    12.0     3.10    24.50    99.00    99.00
11  7 15 20    15.0 1   294.0     4.10    22.80    99.00    99.00
11  7 15 21    15.0 1   269.0     5.70    19.60    99.00    99.00
11  7 15 22    15.0 1   283.0     5.10    18.10    99.00    99.00
11  7 15 23    15.0 1   292.0     3.60    17.30    99.00    99.00
11  7 15 24    15.0 1   296.0     3.10    16.30    99.00    99.00
11  7 16  1    15.0 1   306.0     2.60    15.60    99.00    99.00
11  7 16  2    15.0 1   310.0     2.60    15.00    99.00    99.00
11  7 16  3    15.0 1   320.0     2.10    14.50    99.00    99.00
11  7 16  4    15.0 1   316.0     2.10    14.10    99.00    99.00
11  7 16  5    15.0 1   324.0     2.60    13.90    99.00    99.00
11  7 16  6    15.0 1   310.0     3.10    14.00    99.00    99.00
11  7 16  7    15.0 1   315.0     2.60    14.30    99.00    99.00
11  7 16  8    15.0 1   310.0     1.50    14.60    99.00    99.00
11  7 16  9    15.0 1     0.0     0.00    15.30    99.00    99.00
11  7 16 10    15.0 1     0.0     0.00    17.80    99.00    99.00
11  7 16 11    15.0 1     0.0     0.00    20.10    99.00    99.00
11  7 16 12    15.0 1     0.0     0.00    21.80    99.00    99.00
11  7 16 13    15.0 1     0.0     0.00    23.30    99.00    99.00
11  7 16 14    15.0 1     0.0     0.00    24.60    99.00    99.00
11  7 16 15    15.0 1     0.0     0.00    25.50    99.00    99.00
11  7 16 16    15.0 1    12.0     1.00    26.00    99.00    99.00
11  7 16 17    15.0 1    23.0     2.10    26.00    99.00    99.00
11  7 16 18    15.0 1    31.0     2.60    25.50    99.00    99.00
11  7 16 19    15.0 1    18.0     3.10    24.60    99.00    99.00
11  7 16 20    15.0 1   296.0     3.60    23.30    99.00    99.00
11  7 16 21    15.0 1   266.0     5.70    19.30    99.00    99.00
11  7 16 22    15.0 1   269.0     5.10    17.40    99.00    99.00
11  7 16 23    15.0 1   275.0     4.10    16.60    99.00    99.00
11  7 16 24    15.0 1   277.0     3.60    15.90    99.00    99.00
11  7 17  1    15.0 1   296.0     2.60    15.60    99.00    99.00
11  7 17  2    15.0 1   308.0     2.60    15.60    99.00    99.00
11  7 17  3    15.0 1   330.0     1.50    15.30    99.00    99.00
11  7 17  4    15.0 1   339.0     1.00    14.80    99.00    99.00
11  7 17  5    15.0 1   351.0     0.50    14.40    99.00    99.00
11  7 17  6    15.0 1     3.0     1.00    14.10    99.00    99.00
11  7 17  7    15.0 1   355.0     1.50    15.60    99.00    99.00
11  7 17  8    15.0 1   341.0     0.50    17.10    99.00    99.00
11  7 17  9    15.0 1     0.0     0.00    18.90    99.00    99.00
11  7 17 10    15.0 1     0.0     0.00    20.60    99.00    99.00
11  7 17 11    15.0 1     0.0     0.00    22.30    99.00    99.00
11  7 17 12    15.0 1     0.0     0.00    24.00    99.00    99.00
11  7 17 13    15.0 1   326.0     0.50    25.50    99.00    99.00
11  7 17 14    15.0 1   355.0     1.00    26.50    99.00    99.00
11  7 17 15    15.0 1     0.0     0.00    27.10    99.00    99.00
11  7 17 16    15.0 1     7.0     2.10    27.50    99.00    99.00
11  7 17 17    15.0 1    16.0     2.60    27.50    99.00    99.00
```

```
11  7 17 18    15.0 1    26.0     2.60    27.00    99.00    99.00
11  7 17 19    15.0 1    35.0     3.10    26.10    99.00    99.00
11  7 17 20    15.0 1   352.0     1.50    25.10    99.00    99.00
11  7 17 21    15.0 1   282.0     5.10    22.30    99.00    99.00
11  7 17 22    15.0 1   270.0     5.10    18.90    99.00    99.00
11  7 17 23    15.0 1   278.0     4.60    17.80    99.00    99.00
11  7 17 24    15.0 1   303.0     3.60    17.10    99.00    99.00
11  7 18  1    15.0 1   313.0     3.10    16.80    99.00    99.00
11  7 18  2    15.0 1   332.0     3.10    16.60    99.00    99.00
11  7 18  3    15.0 1   342.0     2.60    16.10    99.00    99.00
11  7 18  4    15.0 1     1.0     1.50    15.60    99.00    99.00
11  7 18  5    15.0 1    14.0     1.50    15.10    99.00    99.00
11  7 18  6    15.0 1    17.0     1.00    14.80    99.00    99.00
11  7 18  7    15.0 1     6.0     1.00    16.10    99.00    99.00
11  7 18  8    15.0 1     0.0     0.00    18.10    99.00    99.00
11  7 18  9    15.0 1     0.0     0.00    20.00    99.00    99.00
11  7 18 10    15.0 1     0.0     0.00    22.00    99.00    99.00
11  7 18 11    15.0 1     0.0     0.00    23.80    99.00    99.00
11  7 18 12    15.0 1     0.0     0.00    25.50    99.00    99.00
11  7 18 13    15.0 1     0.0     0.00    27.00    99.00    99.00
11  7 18 14    15.0 1   345.0     1.00    28.10    99.00    99.00
11  7 18 15    15.0 1   355.0     1.50    28.80    99.00    99.00
11  7 18 16    15.0 1     3.0     1.50    29.10    99.00    99.00
11  7 18 17    15.0 1    12.0     2.60    29.00    99.00    99.00
11  7 18 18    15.0 1    24.0     2.60    28.40    99.00    99.00
11  7 18 19    15.0 1    14.0     3.10    27.50    99.00    99.00
11  7 18 20    15.0 1   324.0     3.10    26.30    99.00    99.00
11  7 18 21    15.0 1   271.0     5.10    22.50    99.00    99.00
11  7 18 22    15.0 1   275.0     5.10    20.10    99.00    99.00
11  7 18 23    15.0 1   287.0     3.60    19.10    99.00    99.00
11  7 18 24    15.0 1   317.0     3.10    19.00    99.00    99.00
11  7 19  1    15.0 1   354.0     3.10    18.60    99.00    99.00
11  7 19  2    15.0 1     0.0     0.00    18.00    99.00    99.00
11  7 19  3    15.0 1     0.0     0.00    17.30    99.00    99.00
11  7 19  4    15.0 1   357.0     1.00    16.60    99.00    99.00
11  7 19  5    15.0 1    15.0     0.50    16.00    99.00    99.00
11  7 19  6    15.0 1     0.0     0.00    15.60    99.00    99.00
11  7 19  7    15.0 1    12.0     1.50    16.80    99.00    99.00
11  7 19  8    15.0 1     3.0     0.50    18.60    99.00    99.00
11  7 19  9    15.0 1     0.0     0.00    20.30    99.00    99.00
11  7 19 10    15.0 1     0.0     0.00    22.50    99.00    99.00
11  7 19 11    15.0 1     0.0     0.00    24.40    99.00    99.00
11  7 19 12    15.0 1   326.0     0.50    26.10    99.00    99.00
11  7 19 13    15.0 1   336.0     1.00    27.60    99.00    99.00
11  7 19 14    15.0 1   350.0     1.50    28.60    99.00    99.00
11  7 19 15    15.0 1   355.0     2.60    29.10    99.00    99.00
11  7 19 16    15.0 1   351.0     3.60    29.10    99.00    99.00
11  7 19 17    15.0 1   348.0     3.60    28.90    99.00    99.00
11  7 19 18    15.0 1   351.0     2.60    28.60    99.00    99.00
11  7 19 19    15.0 1   338.0     3.10    27.60    99.00    99.00
11  7 19 20    15.0 1   327.0     3.60    26.60    99.00    99.00
11  7 19 21    15.0 1   320.0     3.60    25.40    99.00    99.00
11  7 19 22    15.0 1   306.0     3.60    24.10    99.00    99.00
11  7 19 23    15.0 1   304.0     3.10    23.40    99.00    99.00
11  7 19 24    15.0 1   294.0     2.60    22.60    99.00    99.00
11  7 20  1    15.0 1   301.0     2.10    21.90    99.00    99.00
11  7 20  2    15.0 1   308.0     2.10    21.40    99.00    99.00
11  7 20  3    15.0 1   330.0     2.60    20.90    99.00    99.00
11  7 20  4    15.0 1   342.0     2.60    20.30    99.00    99.00
11  7 20  5    15.0 1     5.0     2.60    19.60    99.00    99.00
11  7 20  6    15.0 1   360.0     2.10    19.30    99.00    99.00
11  7 20  7    15.0 1   353.0     2.60    20.50    99.00    99.00
11  7 20  8    15.0 1   342.0     1.00    22.10    99.00    99.00
11  7 20  9    15.0 1     0.0     0.00    23.80    99.00    99.00
11  7 20 10    15.0 1     0.0     0.00    25.30    99.00    99.00
11  7 20 11    15.0 1     0.0     0.00    27.00    99.00    99.00
11  7 20 12    15.0 1   290.0     0.50    28.30    99.00    99.00
11  7 20 13    15.0 1     0.0     0.00    29.40    99.00    99.00
11  7 20 14    15.0 1     0.0     0.00    30.30    99.00    99.00
11  7 20 15    15.0 1    16.0     0.50    31.10    99.00    99.00
11  7 20 16    15.0 1    22.0     1.50    31.50    99.00    99.00
11  7 20 17    15.0 1    27.0     2.60    31.40    99.00    99.00
11  7 20 18    15.0 1    44.0     2.60    30.90    99.00    99.00
11  7 20 19    15.0 1     3.0     1.50    30.30    99.00    99.00
11  7 20 20    15.0 1   274.0     5.10    27.60    99.00    99.00
11  7 20 21    15.0 1   275.0     5.70    23.10    99.00    99.00
11  7 20 22    15.0 1   261.0     4.60    21.60    99.00    99.00
```

11	7	20	23	15.0	1	275.0	4.10	20.60	99.00	99.00
11	7	20	24	15.0	1	284.0	3.10	19.90	99.00	99.00
11	7	21	1	15.0	1	298.0	2.10	19.40	99.00	99.00
11	7	21	2	15.0	1	317.0	1.50	19.10	99.00	99.00
11	7	21	3	15.0	1	313.0	1.50	18.60	99.00	99.00
11	7	21	4	15.0	1	312.0	2.10	18.40	99.00	99.00
11	7	21	5	15.0	1	315.0	2.10	18.10	99.00	99.00
11	7	21	6	15.0	1	314.0	2.10	18.10	99.00	99.00
11	7	21	7	15.0	1	323.0	1.50	19.60	99.00	99.00
11	7	21	8	15.0	1	0.0	0.00	21.30	99.00	99.00
11	7	21	9	15.0	1	0.0	0.00	23.00	99.00	99.00
11	7	21	10	15.0	1	0.0	0.00	24.80	99.00	99.00
11	7	21	11	15.0	1	0.0	0.00	26.50	99.00	99.00
11	7	21	12	15.0	1	0.0	0.00	28.30	99.00	99.00
11	7	21	13	15.0	1	0.0	0.00	29.80	99.00	99.00
11	7	21	14	15.0	1	315.0	0.50	31.00	99.00	99.00
11	7	21	15	15.0	1	345.0	0.50	31.60	99.00	99.00
11	7	21	16	15.0	1	0.0	0.00	32.10	99.00	99.00
11	7	21	17	15.0	1	6.0	1.50	32.10	99.00	99.00
11	7	21	18	15.0	1	341.0	2.10	31.80	99.00	99.00
11	7	21	19	15.0	1	288.0	5.10	29.10	99.00	99.00
11	7	21	20	15.0	1	269.0	4.60	24.50	99.00	99.00
11	7	21	21	15.0	1	266.0	5.10	22.00	99.00	99.00
11	7	21	22	15.0	1	275.0	4.60	20.50	99.00	99.00
11	7	21	23	15.0	1	278.0	4.10	19.50	99.00	99.00
11	7	21	24	15.0	1	277.0	3.10	18.60	99.00	99.00
11	7	22	1	15.0	1	299.0	1.50	18.40	99.00	99.00
11	7	22	2	15.0	1	9.0	1.50	18.00	99.00	99.00
11	7	22	3	15.0	1	16.0	2.60	17.40	99.00	99.00
11	7	22	4	15.0	1	17.0	1.50	16.90	99.00	99.00
11	7	22	5	15.0	1	0.0	0.00	16.50	99.00	99.00
11	7	22	6	15.0	1	319.0	1.00	16.60	99.00	99.00
11	7	22	7	15.0	1	286.0	2.60	18.60	99.00	99.00
11	7	22	8	15.0	1	280.0	0.50	20.60	99.00	99.00
11	7	22	9	15.0	1	0.0	0.00	22.60	99.00	99.00
11	7	22	10	15.0	1	0.0	0.00	24.60	99.00	99.00
11	7	22	11	15.0	1	0.0	0.00	26.40	99.00	99.00
11	7	22	12	15.0	1	0.0	0.00	28.00	99.00	99.00
11	7	22	13	15.0	1	320.0	0.50	29.40	99.00	99.00
11	7	22	14	15.0	1	335.0	0.50	30.40	99.00	99.00
11	7	22	15	15.0	1	352.0	1.00	31.00	99.00	99.00
11	7	22	16	15.0	1	349.0	2.10	31.10	99.00	99.00
11	7	22	17	15.0	1	0.0	0.00	31.00	99.00	99.00
11	7	22	18	15.0	1	23.0	2.60	30.60	99.00	99.00
11	7	22	19	15.0	1	347.0	2.60	29.80	99.00	99.00
11	7	22	20	15.0	1	280.0	5.10	27.10	99.00	99.00
11	7	22	21	15.0	1	269.0	5.10	22.90	99.00	99.00
11	7	22	22	15.0	1	275.0	4.60	21.40	99.00	99.00
11	7	22	23	15.0	1	272.0	3.60	20.50	99.00	99.00
11	7	22	24	15.0	1	295.0	2.10	19.90	99.00	99.00
11	7	23	1	15.0	1	339.0	1.00	19.60	99.00	99.00
11	7	23	2	15.0	1	9.0	1.00	19.30	99.00	99.00
11	7	23	3	15.0	1	0.0	0.00	19.00	99.00	99.00
11	7	23	4	15.0	1	337.0	1.00	18.60	99.00	99.00
11	7	23	5	15.0	1	314.0	1.50	18.30	99.00	99.00
11	7	23	6	15.0	1	308.0	2.10	18.30	99.00	99.00
11	7	23	7	15.0	1	315.0	2.10	20.00	99.00	99.00
11	7	23	8	15.0	1	312.0	0.50	21.60	99.00	99.00
11	7	23	9	15.0	1	0.0	0.00	23.40	99.00	99.00
11	7	23	10	15.0	1	0.0	0.00	25.60	99.00	99.00
11	7	23	11	15.0	1	0.0	0.00	27.60	99.00	99.00
11	7	23	12	15.0	1	287.0	0.50	29.50	99.00	99.00
11	7	23	13	15.0	1	315.0	0.50	30.90	99.00	99.00
11	7	23	14	15.0	1	0.0	0.00	32.00	99.00	99.00
11	7	23	15	15.0	1	324.0	0.50	32.80	99.00	99.00
11	7	23	16	15.0	1	355.0	1.00	33.10	99.00	99.00
11	7	23	17	15.0	1	0.0	0.00	33.00	99.00	99.00
11	7	23	18	15.0	1	15.0	2.60	32.30	99.00	99.00
11	7	23	19	15.0	1	0.0	0.00	30.90	99.00	99.00
11	7	23	20	15.0	1	309.0	4.60	28.30	99.00	99.00
11	7	23	21	15.0	1	279.0	4.60	24.10	99.00	99.00
11	7	23	22	15.0	1	279.0	4.60	22.10	99.00	99.00
11	7	23	23	15.0	1	293.0	4.60	21.00	99.00	99.00
11	7	23	24	15.0	1	290.0	4.10	20.00	99.00	99.00
11	7	24	1	15.0	1	325.0	3.10	19.40	99.00	99.00
11	7	24	2	15.0	1	349.0	3.60	18.80	99.00	99.00
11	7	24	3	15.0	1	349.0	3.60	18.30	99.00	99.00

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11  7 24  4    15.0 1   350.0     3.10    18.00    99.00    99.00
11  7 24  5    15.0 1   360.0     2.60    17.80    99.00    99.00
11  7 24  6    15.0 1     0.0     0.00    18.00    99.00    99.00
11  7 24  7    15.0 1   336.0     1.50    19.80    99.00    99.00
11  7 24  8    15.0 1     0.0     0.00    21.60    99.00    99.00
11  7 24  9    15.0 1     0.0     0.00    23.50    99.00    99.00
11  7 24 10    15.0 1     0.0     0.00    25.40    99.00    99.00
11  7 24 11    15.0 1     0.0     0.00    27.60    99.00    99.00
11  7 24 12    15.0 1     0.0     0.00    29.60    99.00    99.00
11  7 24 13    15.0 1   321.0     0.50    31.00    99.00    99.00
11  7 24 14    15.0 1   336.0     1.00    32.10    99.00    99.00
11  7 24 15    15.0 1   346.0     2.10    32.60    99.00    99.00
11  7 24 16    15.0 1     0.0     0.00    33.10    99.00    99.00
11  7 24 17    15.0 1    10.0     2.60    32.50    99.00    99.00
11  7 24 18    15.0 1   356.0     3.10    32.00    99.00    99.00
11  7 24 19    15.0 1   313.0     4.60    30.10    99.00    99.00
11  7 24 20    15.0 1   278.0     5.10    25.30    99.00    99.00
11  7 24 21    15.0 1   285.0     5.10    22.80    99.00    99.00
11  7 24 22    15.0 1   284.0     4.10    21.50    99.00    99.00
11  7 24 23    15.0 1   300.0     3.10    20.50    99.00    99.00
11  7 24 24    15.0 1   329.0     3.10    19.90    99.00    99.00
11  7 25  1    15.0 1   349.0     3.60    19.00    99.00    99.00
11  7 25  2    15.0 1   338.0     3.10    18.40    99.00    99.00
11  7 25  3    15.0 1   329.0     2.60    18.10    99.00    99.00
11  7 25  4    15.0 1   323.0     2.10    18.10    99.00    99.00
11  7 25  5    15.0 1   325.0     1.00    17.90    99.00    99.00
11  7 25  6    15.0 1     0.0     0.00    17.80    99.00    99.00
11  7 25  7    15.0 1   359.0     1.00    19.30    99.00    99.00
11  7 25  8    15.0 1     0.0     0.00    21.10    99.00    99.00
11  7 25  9    15.0 1     0.0     0.00    22.60    99.00    99.00
11  7 25 10    15.0 1     0.0     0.00    24.50    99.00    99.00
11  7 25 11    15.0 1     0.0     0.00    26.10    99.00    99.00
11  7 25 12    15.0 1   345.0     0.50    27.60    99.00    99.00
11  7 25 13    15.0 1   346.0     1.00    29.10    99.00    99.00
11  7 25 14    15.0 1   346.0     1.50    30.10    99.00    99.00
11  7 25 15    15.0 1     3.0     2.60    30.60    99.00    99.00
11  7 25 16    15.0 1     3.0     3.10    30.90    99.00    99.00
11  7 25 17    15.0 1     0.0     0.00    30.60    99.00    99.00
11  7 25 18    15.0 1   349.0     2.60    30.10    99.00    99.00
11  7 25 19    15.0 1   343.0     3.10    29.30    99.00    99.00
11  7 25 20    15.0 1   336.0     3.60    28.10    99.00    99.00
11  7 25 21    15.0 1   302.0     4.60    26.10    99.00    99.00
11  7 25 22    15.0 1   268.0     4.60    23.10    99.00    99.00
11  7 25 23    15.0 1   281.0     3.60    22.00    99.00    99.00
11  7 25 24    15.0 1   295.0     3.10    21.60    99.00    99.00
11  7 26  1    15.0 1   320.0     3.10    21.50    99.00    99.00
11  7 26  2    15.0 1   355.0     3.10    20.80    99.00    99.00
11  7 26  3    15.0 1    13.0     2.60    20.00    99.00    99.00
11  7 26  4    15.0 1     6.0     2.10    19.30    99.00    99.00
11  7 26  5    15.0 1    18.0     1.50    18.60    99.00    99.00
11  7 26  6    15.0 1     6.0     1.50    18.10    99.00    99.00
11  7 26  7    15.0 1     0.0     0.00    19.10    99.00    99.00
11  7 26  8    15.0 1   349.0     0.50    21.00    99.00    99.00
11  7 26  9    15.0 1     0.0     0.00    22.80    99.00    99.00
11  7 26 10    15.0 1     0.0     0.00    24.40    99.00    99.00
11  7 26 11    15.0 1     0.0     0.00    26.00    99.00    99.00
11  7 26 12    15.0 1     0.0     0.00    27.60    99.00    99.00
11  7 26 13    15.0 1   333.0     0.50    29.00    99.00    99.00
11  7 26 14    15.0 1     0.0     0.00    29.90    99.00    99.00
11  7 26 15    15.0 1    13.0     1.50    30.50    99.00    99.00
11  7 26 16    15.0 1     9.0     2.10    30.60    99.00    99.00
11  7 26 17    15.0 1    14.0     2.60    30.40    99.00    99.00
11  7 26 18    15.0 1    24.0     3.10    29.60    99.00    99.00
11  7 26 19    15.0 1    13.0     3.60    28.40    99.00    99.00
11  7 26 20    15.0 1   358.0     3.10    27.30    99.00    99.00
11  7 26 21    15.0 1   289.0     4.10    25.80    99.00    99.00
11  7 26 22    15.0 1   270.0     5.10    22.30    99.00    99.00
11  7 26 23    15.0 1   279.0     4.10    21.00    99.00    99.00
11  7 26 24    15.0 1   277.0     3.10    20.60    99.00    99.00
11  7 27  1    15.0 1   280.0     3.10    20.30    99.00    99.00
11  7 27  2    15.0 1   300.0     2.60    20.00    99.00    99.00
11  7 27  3    15.0 1   316.0     2.10    19.60    99.00    99.00
11  7 27  4    15.0 1   327.0     1.50    19.30    99.00    99.00
11  7 27  5    15.0 1   330.0     1.50    18.80    99.00    99.00
11  7 27  6    15.0 1   327.0     1.50    18.50    99.00    99.00
11  7 27  7    15.0 1   345.0     1.50    19.80    99.00    99.00
11  7 27  8    15.0 1   341.0     0.50    21.80    99.00    99.00
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11   7 27   9     15.0 1     0.0     0.00    23.60    99.00    99.00
11   7 27  10     15.0 1     0.0     0.00    25.60    99.00    99.00
11   7 27  11     15.0 1     0.0     0.00    27.60    99.00    99.00
11   7 27  12     15.0 1     0.0     0.00    29.50    99.00    99.00
11   7 27  13     15.0 1   315.0     0.50    31.00    99.00    99.00
11   7 27  14     15.0 1   334.0     0.50    32.10    99.00    99.00
11   7 27  15     15.0 1   350.0     1.50    32.60    99.00    99.00
11   7 27  16     15.0 1     0.0     0.00    32.90    99.00    99.00
11   7 27  17     15.0 1     9.0     2.60    32.40    99.00    99.00
11   7 27  18     15.0 1    13.0     3.10    31.60    99.00    99.00
11   7 27  19     15.0 1   319.0     4.60    30.40    99.00    99.00
11   7 27  20     15.0 1   284.0     5.70    25.60    99.00    99.00
11   7 27  21     15.0 1   276.0     5.10    23.30    99.00    99.00
11   7 27  22     15.0 1   278.0     4.60    22.00    99.00    99.00
11   7 27  23     15.0 1   284.0     3.60    21.10    99.00    99.00
11   7 27  24     15.0 1   307.0     2.60    20.60    99.00    99.00
11   7 28   1     15.0 1   316.0     2.10    20.10    99.00    99.00
11   7 28   2     15.0 1   340.0     1.50    19.90    99.00    99.00
11   7 28   3     15.0 1     0.0     0.00    19.60    99.00    99.00
11   7 28   4     15.0 1     0.0     0.00    19.40    99.00    99.00
11   7 28   5     15.0 1     0.0     0.00    19.10    99.00    99.00
11   7 28   6     15.0 1    11.0     0.50    19.10    99.00    99.00
11   7 28   7     15.0 1   320.0     1.50    21.00    99.00    99.00
11   7 28   8     15.0 1   315.0     0.50    22.80    99.00    99.00
11   7 28   9     15.0 1     0.0     0.00    24.50    99.00    99.00
11   7 28  10     15.0 1     0.0     0.00    26.40    99.00    99.00
11   7 28  11     15.0 1     0.0     0.00    28.60    99.00    99.00
11   7 28  12     15.0 1     0.0     0.00    30.50    99.00    99.00
11   7 28  13     15.0 1   322.0     0.50    32.10    99.00    99.00
11   7 28  14     15.0 1     0.0     0.00    33.10    99.00    99.00
11   7 28  15     15.0 1    11.0     1.50    33.90    99.00    99.00
11   7 28  16     15.0 1     9.0     2.60    34.10    99.00    99.00
11   7 28  17     15.0 1    11.0     2.60    33.60    99.00    99.00
11   7 28  18     15.0 1   339.0     3.60    33.00    99.00    99.00
11   7 28  19     15.0 1   296.0     5.10    29.60    99.00    99.00
11   7 28  20     15.0 1   285.0     5.10    25.80    99.00    99.00
11   7 28  21     15.0 1   277.0     5.10    23.40    99.00    99.00
11   7 28  22     15.0 1   280.0     4.60    21.90    99.00    99.00
11   7 28  23     15.0 1   302.0     3.60    21.10    99.00    99.00
11   7 28  24     15.0 1   320.0     3.10    20.50    99.00    99.00
11   7 29   1     15.0 1   334.0     3.60    19.90    99.00    99.00
11   7 29   2     15.0 1   352.0     3.60    19.50    99.00    99.00
11   7 29   3     15.0 1     1.0     3.60    19.10    99.00    99.00
11   7 29   4     15.0 1     6.0     3.10    18.80    99.00    99.00
11   7 29   5     15.0 1     7.0     2.60    18.60    99.00    99.00
11   7 29   6     15.0 1    21.0     1.50    18.60    99.00    99.00
11   7 29   7     15.0 1   326.0     1.00    20.40    99.00    99.00
11   7 29   8     15.0 1     0.0     0.00    22.40    99.00    99.00
11   7 29   9     15.0 1     0.0     0.00    24.10    99.00    99.00
11   7 29  10     15.0 1     0.0     0.00    26.10    99.00    99.00
11   7 29  11     15.0 1     0.0     0.00    28.10    99.00    99.00
11   7 29  12     15.0 1     0.0     0.00    30.10    99.00    99.00
11   7 29  13     15.0 1     0.0     0.00    31.60    99.00    99.00
11   7 29  14     15.0 1   342.0     1.00    32.80    99.00    99.00
11   7 29  15     15.0 1     0.0     0.00    33.50    99.00    99.00
11   7 29  16     15.0 1    10.0     3.10    33.90    99.00    99.00
11   7 29  17     15.0 1    12.0     2.60    33.40    99.00    99.00
11   7 29  18     15.0 1   322.0     3.60    32.90    99.00    99.00
11   7 29  19     15.0 1   291.0     5.10    28.90    99.00    99.00
11   7 29  20     15.0 1   269.0     5.10    25.30    99.00    99.00
11   7 29  21     15.0 1   278.0     4.60    23.40    99.00    99.00
11   7 29  22     15.0 1   290.0     3.10    22.30    99.00    99.00
11   7 29  23     15.0 1   325.0     2.10    21.90    99.00    99.00
11   7 29  24     15.0 1    20.0     2.60    21.50    99.00    99.00
11   7 30   1     15.0 1    32.0     2.60    20.80    99.00    99.00
11   7 30   2     15.0 1   358.0     1.50    20.10    99.00    99.00
11   7 30   3     15.0 1   338.0     1.50    19.60    99.00    99.00
11   7 30   4     15.0 1   336.0     1.50    19.10    99.00    99.00
11   7 30   5     15.0 1   342.0     1.50    18.90    99.00    99.00
11   7 30   6     15.0 1   324.0     1.50    18.90    99.00    99.00
11   7 30   7     15.0 1   308.0     2.10    20.00    99.00    99.00
11   7 30   8     15.0 1   300.0     0.50    21.80    99.00    99.00
11   7 30   9     15.0 1   290.0     0.50    23.50    99.00    99.00
11   7 30  10     15.0 1     0.0     0.00    25.30    99.00    99.00
11   7 30  11     15.0 1     0.0     0.00    27.10    99.00    99.00
11   7 30  12     15.0 1   320.0     0.50    28.60    99.00    99.00
11   7 30  13     15.0 1   323.0     0.50    30.10    99.00    99.00
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11   7 30 14     15.0 1   345.0      1.00     31.10     99.00     99.00
11   7 30 15     15.0 1   351.0      2.10     32.00     99.00     99.00
11   7 30 16     15.0 1     0.0      0.00     32.10     99.00     99.00
11   7 30 17     15.0 1     9.0      2.60     31.80     99.00     99.00
11   7 30 18     15.0 1    24.0      2.60     31.40     99.00     99.00
11   7 30 19     15.0 1     0.0      0.00     30.60     99.00     99.00
11   7 30 20     15.0 1   290.0      4.60     28.30     99.00     99.00
11   7 30 21     15.0 1   281.0      5.70     23.90     99.00     99.00
11   7 30 22     15.0 1   276.0      4.60     22.30     99.00     99.00
11   7 30 23     15.0 1   287.0      3.60     21.50     99.00     99.00
11   7 30 24     15.0 1   314.0      3.10     20.90     99.00     99.00
11   7 31  1     15.0 1   319.0      3.10     20.10     99.00     99.00
11   7 31  2     15.0 1   323.0      3.60     19.60     99.00     99.00
11   7 31  3     15.0 1   318.0      3.10     19.10     99.00     99.00
11   7 31  4     15.0 1   322.0      2.60     19.10     99.00     99.00
11   7 31  5     15.0 1   310.0      2.10     19.30     99.00     99.00
11   7 31  6     15.0 1   322.0      1.50     19.40     99.00     99.00
11   7 31  7     15.0 1   325.0      1.50     20.80     99.00     99.00
11   7 31  8     15.0 1   330.0      0.50     22.30     99.00     99.00
11   7 31  9     15.0 1     0.0      0.00     24.10     99.00     99.00
11   7 31 10     15.0 1     0.0      0.00     25.90     99.00     99.00
11   7 31 11     15.0 1     0.0      0.00     28.00     99.00     99.00
11   7 31 12     15.0 1     0.0      0.00     29.80     99.00     99.00
11   7 31 13     15.0 1   292.0      0.50     31.30     99.00     99.00
11   7 31 14     15.0 1   314.0      0.50     32.40     99.00     99.00
11   7 31 15     15.0 1   320.0      1.50     33.10     99.00     99.00
11   7 31 16     15.0 1   324.0      3.10     33.10     99.00     99.00
11   7 31 17     15.0 1   305.0      3.60     32.00     99.00     99.00
11   7 31 18     15.0 1   295.0      5.10     29.10     99.00     99.00
11   7 31 19     15.0 1   276.0      5.10     25.30     99.00     99.00
11   7 31 20     15.0 1   276.0      5.10     22.60     99.00     99.00
11   7 31 21     15.0 1   278.0      4.60     20.90     99.00     99.00
11   7 31 22     15.0 1   287.0      3.10     19.90     99.00     99.00
11   7 31 23     15.0 1   307.0      2.10     19.60     99.00     99.00
11   7 31 24     15.0 1   348.0      2.60     19.30     99.00     99.00
11   8  1  1     15.0 1   359.0      3.60     18.40     99.00     99.00
11   8  1  2     15.0 1   360.0      3.10     17.80     99.00     99.00
11   8  1  3     15.0 1   349.0      2.60     17.60     99.00     99.00
11   8  1  4     15.0 1   350.0      2.10     17.50     99.00     99.00
11   8  1  5     15.0 1   347.0      1.00     17.30     99.00     99.00
11   8  1  6     15.0 1     0.0      0.00     17.10     99.00     99.00
11   8  1  7     15.0 1   329.0      0.50     18.80     99.00     99.00
11   8  1  8     15.0 1     0.0      0.00     20.60     99.00     99.00
11   8  1  9     15.0 1     0.0      0.00     23.00     99.00     99.00
11   8  1 10     15.0 1     0.0      0.00     24.90     99.00     99.00
11   8  1 11     15.0 1   312.0      0.50     26.90     99.00     99.00
11   8  1 12     15.0 1     0.0      0.00     28.90     99.00     99.00
11   8  1 13     15.0 1   329.0      1.00     30.40     99.00     99.00
11   8  1 14     15.0 1   336.0      2.10     31.50     99.00     99.00
11   8  1 15     15.0 1   340.0      2.60     32.00     99.00     99.00
11   8  1 16     15.0 1   348.0      3.10     32.10     99.00     99.00
11   8  1 17     15.0 1     8.0      2.60     31.60     99.00     99.00
11   8  1 18     15.0 1    14.0      2.60     31.30     99.00     99.00
11   8  1 19     15.0 1   296.0      4.10     30.10     99.00     99.00
11   8  1 20     15.0 1   269.0      5.70     25.10     99.00     99.00
11   8  1 21     15.0 1   266.0      5.10     22.60     99.00     99.00
11   8  1 22     15.0 1   277.0      4.10     21.40     99.00     99.00
11   8  1 23     15.0 1   288.0      3.10     20.60     99.00     99.00
11   8  1 24     15.0 1   309.0      2.60     20.10     99.00     99.00
11   8  2  1     15.0 1   332.0      2.60     19.60     99.00     99.00
11   8  2  2     15.0 1   341.0      2.60     19.10     99.00     99.00
11   8  2  3     15.0 1   340.0      2.60     18.90     99.00     99.00
11   8  2  4     15.0 1   334.0      2.60     18.60     99.00     99.00
11   8  2  5     15.0 1   335.0      2.10     18.40     99.00     99.00
11   8  2  6     15.0 1   342.0      1.50     18.10     99.00     99.00
11   8  2  7     15.0 1   347.0      1.50     19.50     99.00     99.00
11   8  2  8     15.0 1     0.0      0.00     21.10     99.00     99.00
11   8  2  9     15.0 1     0.0      0.00     23.40     99.00     99.00
11   8  2 10     15.0 1     0.0      0.00     25.10     99.00     99.00
11   8  2 11     15.0 1     0.0      0.00     27.40     99.00     99.00
11   8  2 12     15.0 1     0.0      0.00     29.10     99.00     99.00
11   8  2 13     15.0 1   317.0      0.50     30.60     99.00     99.00
11   8  2 14     15.0 1   337.0      1.50     31.60     99.00     99.00
11   8  2 15     15.0 1   355.0      2.60     32.30     99.00     99.00
11   8  2 16     15.0 1     4.0      3.10     32.40     99.00     99.00
11   8  2 17     15.0 1     9.0      2.60     31.90     99.00     99.00
11   8  2 18     15.0 1     0.0      0.00     31.50     99.00     99.00
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11  8  2 19    15.0 1   305.0     4.10    30.40    99.00    99.00
11  8  2 20    15.0 1   267.0     5.70    25.40    99.00    99.00
11  8  2 21    15.0 1   270.0     5.10    22.60    99.00    99.00
11  8  2 22    15.0 1   275.0     4.10    21.30    99.00    99.00
11  8  2 23    15.0 1   281.0     3.60    20.30    99.00    99.00
11  8  2 24    15.0 1   303.0     2.60    19.60    99.00    99.00
11  8  3  1    15.0 1   330.0     2.10    19.40    99.00    99.00
11  8  3  2    15.0 1   327.0     2.10    19.10    99.00    99.00
11  8  3  3    15.0 1   320.0     2.10    18.90    99.00    99.00
11  8  3  4    15.0 1   320.0     2.10    18.60    99.00    99.00
11  8  3  5    15.0 1   329.0     1.50    18.10    99.00    99.00
11  8  3  6    15.0 1   351.0     1.00    18.00    99.00    99.00
11  8  3  7    15.0 1   349.0     1.00    19.30    99.00    99.00
11  8  3  8    15.0 1     0.0     0.00    21.10    99.00    99.00
11  8  3  9    15.0 1     0.0     0.00    22.80    99.00    99.00
11  8  3 10    15.0 1     0.0     0.00    24.60    99.00    99.00
11  8  3 11    15.0 1     0.0     0.00    26.60    99.00    99.00
11  8  3 12    15.0 1     0.0     0.00    28.30    99.00    99.00
11  8  3 13    15.0 1   340.0     0.50    29.60    99.00    99.00
11  8  3 14    15.0 1   349.0     1.50    30.90    99.00    99.00
11  8  3 15    15.0 1   350.0     2.10    31.60    99.00    99.00
11  8  3 16    15.0 1   353.0     2.10    32.00    99.00    99.00
11  8  3 17    15.0 1   342.0     1.50    31.60    99.00    99.00
11  8  3 18    15.0 1   305.0     3.10    31.00    99.00    99.00
11  8  3 19    15.0 1   284.0     5.10    27.50    99.00    99.00
11  8  3 20    15.0 1   271.0     5.10    23.50    99.00    99.00
11  8  3 21    15.0 1   267.0     5.10    21.60    99.00    99.00
11  8  3 22    15.0 1   257.0     4.10    20.50    99.00    99.00
11  8  3 23    15.0 1   267.0     3.60    19.60    99.00    99.00
11  8  3 24    15.0 1   280.0     2.10    19.30    99.00    99.00
11  8  4  1    15.0 1   316.0     1.00    19.10    99.00    99.00
11  8  4  2    15.0 1   329.0     1.00    19.00    99.00    99.00
11  8  4  3    15.0 1   307.0     1.50    18.60    99.00    99.00
11  8  4  4    15.0 1   318.0     1.50    18.30    99.00    99.00
11  8  4  5    15.0 1   339.0     1.50    17.80    99.00    99.00
11  8  4  6    15.0 1   352.0     1.50    17.40    99.00    99.00
11  8  4  7    15.0 1   357.0     2.60    18.10    99.00    99.00
11  8  4  8    15.0 1   353.0     1.50    19.40    99.00    99.00
11  8  4  9    15.0 1     0.0     0.00    20.90    99.00    99.00
11  8  4 10    15.0 1     0.0     0.00    22.40    99.00    99.00
11  8  4 11    15.0 1     0.0     0.00    24.10    99.00    99.00
11  8  4 12    15.0 1     0.0     0.00    25.60    99.00    99.00
11  8  4 13    15.0 1     0.0     0.00    26.90    99.00    99.00
11  8  4 14    15.0 1   347.0     0.50    27.90    99.00    99.00
11  8  4 15    15.0 1    13.0     1.50    28.50    99.00    99.00
11  8  4 16    15.0 1     8.0     2.60    28.60    99.00    99.00
11  8  4 17    15.0 1     8.0     3.10    28.50    99.00    99.00
11  8  4 18    15.0 1    12.0     3.60    27.60    99.00    99.00
11  8  4 19    15.0 1     0.0     0.00    25.60    99.00    99.00
11  8  4 20    15.0 1   352.0     4.10    23.90    99.00    99.00
11  8  4 21    15.0 1   345.0     3.60    22.50    99.00    99.00
11  8  4 22    15.0 1   345.0     3.60    21.60    99.00    99.00
11  8  4 23    15.0 1   343.0     3.10    20.80    99.00    99.00
11  8  4 24    15.0 1   339.0     3.10    19.90    99.00    99.00
11  8  5  1    15.0 1   360.0     3.10    19.10    99.00    99.00
11  8  5  2    15.0 1    12.0     3.10    18.30    99.00    99.00
11  8  5  3    15.0 1    14.0     2.60    17.50    99.00    99.00
11  8  5  4    15.0 1    15.0     2.10    16.90    99.00    99.00
11  8  5  5    15.0 1     1.0     2.10    16.40    99.00    99.00
11  8  5  6    15.0 1     5.0     1.50    16.10    99.00    99.00
11  8  5  7    15.0 1     6.0     1.50    16.90    99.00    99.00
11  8  5  8    15.0 1     0.0     0.00    18.80    99.00    99.00
11  8  5  9    15.0 1     0.0     0.00    20.60    99.00    99.00
11  8  5 10    15.0 1     0.0     0.00    22.30    99.00    99.00
11  8  5 11    15.0 1     0.0     0.00    24.10    99.00    99.00
11  8  5 12    15.0 1     0.0     0.00    25.90    99.00    99.00
11  8  5 13    15.0 1     0.0     0.00    27.30    99.00    99.00
11  8  5 14    15.0 1     2.0     0.50    28.40    99.00    99.00
11  8  5 15    15.0 1    12.0     1.50    29.10    99.00    99.00
11  8  5 16    15.0 1    20.0     1.50    29.40    99.00    99.00
11  8  5 17    15.0 1    26.0     2.60    29.30    99.00    99.00
11  8  5 18    15.0 1    31.0     2.60    28.80    99.00    99.00
11  8  5 19    15.0 1    11.0     2.60    27.90    99.00    99.00
11  8  5 20    15.0 1   290.0     4.10    26.10    99.00    99.00
11  8  5 21    15.0 1   268.0     5.10    22.10    99.00    99.00
11  8  5 22    15.0 1   270.0     5.10    20.30    99.00    99.00
11  8  5 23    15.0 1   267.0     4.60    19.30    99.00    99.00
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11  8  5 24    15.0 1   280.0     4.10    18.60    99.00    99.00
11  8  6  1    15.0 1   292.0     3.10    18.30    99.00    99.00
11  8  6  2    15.0 1   325.0     2.10    18.10    99.00    99.00
11  8  6  3    15.0 1   338.0     1.50    18.00    99.00    99.00
11  8  6  4    15.0 1   348.0     1.00    17.60    99.00    99.00
11  8  6  5    15.0 1   344.0     1.00    17.40    99.00    99.00
11  8  6  6    15.0 1   346.0     1.00    17.30    99.00    99.00
11  8  6  7    15.0 1   353.0     1.50    17.80    99.00    99.00
11  8  6  8    15.0 1   346.0     1.00    18.10    99.00    99.00
11  8  6  9    15.0 1   323.0     0.50    18.90    99.00    99.00
11  8  6 10    15.0 1     0.0     0.00    20.90    99.00    99.00
11  8  6 11    15.0 1     0.0     0.00    23.40    99.00    99.00
11  8  6 12    15.0 1     0.0     0.00    25.50    99.00    99.00
11  8  6 13    15.0 1     0.0     0.00    27.10    99.00    99.00
11  8  6 14    15.0 1   322.0     0.50    28.50    99.00    99.00
11  8  6 15    15.0 1   356.0     0.50    29.40    99.00    99.00
11  8  6 16    15.0 1     0.0     0.00    29.80    99.00    99.00
11  8  6 17    15.0 1    15.0     2.10    29.80    99.00    99.00
11  8  6 18    15.0 1    11.0     2.60    29.30    99.00    99.00
11  8  6 19    15.0 1    14.0     4.10    28.00    99.00    99.00
11  8  6 20    15.0 1     8.0     3.60    26.80    99.00    99.00
11  8  6 21    15.0 1   296.0     3.60    25.40    99.00    99.00
11  8  6 22    15.0 1   276.0     4.60    22.60    99.00    99.00
11  8  6 23    15.0 1   294.0     3.60    21.60    99.00    99.00
11  8  6 24    15.0 1   308.0     3.60    21.10    99.00    99.00
11  8  7  1    15.0 1   341.0     3.10    20.60    99.00    99.00
11  8  7  2    15.0 1     2.0     3.10    19.90    99.00    99.00
11  8  7  3    15.0 1     1.0     2.60    19.10    99.00    99.00
11  8  7  4    15.0 1     1.0     2.60    18.40    99.00    99.00
11  8  7  5    15.0 1   358.0     2.10    17.60    99.00    99.00
11  8  7  6    15.0 1     1.0     2.10    17.30    99.00    99.00
11  8  7  7    15.0 1   357.0     2.10    18.10    99.00    99.00
11  8  7  8    15.0 1   350.0     0.50    19.90    99.00    99.00
11  8  7  9    15.0 1     0.0     0.00    21.90    99.00    99.00
11  8  7 10    15.0 1     0.0     0.00    23.60    99.00    99.00
11  8  7 11    15.0 1     0.0     0.00    25.50    99.00    99.00
11  8  7 12    15.0 1     0.0     0.00    27.10    99.00    99.00
11  8  7 13    15.0 1     0.0     0.00    28.10    99.00    99.00
11  8  7 14    15.0 1   337.0     0.50    29.10    99.00    99.00
11  8  7 15    15.0 1     4.0     1.00    29.60    99.00    99.00
11  8  7 16    15.0 1     6.0     2.10    29.90    99.00    99.00
11  8  7 17    15.0 1    18.0     2.60    29.60    99.00    99.00
11  8  7 18    15.0 1    21.0     2.60    29.30    99.00    99.00
11  8  7 19    15.0 1    16.0     3.10    28.30    99.00    99.00
11  8  7 20    15.0 1     6.0     2.60    27.10    99.00    99.00
11  8  7 21    15.0 1   338.0     2.10    25.90    99.00    99.00
11  8  7 22    15.0 1   331.0     2.60    24.60    99.00    99.00
11  8  7 23    15.0 1   316.0     2.60    23.50    99.00    99.00
11  8  7 24    15.0 1   316.0     3.10    22.50    99.00    99.00
11  8  8  1    15.0 1   337.0     3.60    21.60    99.00    99.00
11  8  8  2    15.0 1   350.0     3.60    20.50    99.00    99.00
11  8  8  3    15.0 1   357.0     3.10    19.60    99.00    99.00
11  8  8  4    15.0 1   354.0     2.60    18.90    99.00    99.00
11  8  8  5    15.0 1   352.0     2.10    18.40    99.00    99.00
11  8  8  6    15.0 1   337.0     1.00    18.00    99.00    99.00
11  8  8  7    15.0 1   356.0     2.10    19.00    99.00    99.00
11  8  8  8    15.0 1   349.0     0.50    20.80    99.00    99.00
11  8  8  9    15.0 1     0.0     0.00    22.80    99.00    99.00
11  8  8 10    15.0 1     0.0     0.00    24.60    99.00    99.00
11  8  8 11    15.0 1   294.0     0.50    26.30    99.00    99.00
11  8  8 12    15.0 1     0.0     0.00    27.90    99.00    99.00
11  8  8 13    15.0 1     0.0     0.00    29.00    99.00    99.00
11  8  8 14    15.0 1   345.0     0.50    29.90    99.00    99.00
11  8  8 15    15.0 1     0.0     0.00    30.40    99.00    99.00
11  8  8 16    15.0 1     0.0     0.00    31.10    99.00    99.00
11  8  8 17    15.0 1    11.0     2.60    30.90    99.00    99.00
11  8  8 18    15.0 1     8.0     3.10    30.40    99.00    99.00
11  8  8 19    15.0 1     8.0     3.60    29.40    99.00    99.00
11  8  8 20    15.0 1   350.0     3.10    28.10    99.00    99.00
11  8  8 21    15.0 1   327.0     3.10    26.90    99.00    99.00
11  8  8 22    15.0 1   301.0     3.60    25.50    99.00    99.00
11  8  8 23    15.0 1   298.0     3.10    24.30    99.00    99.00
11  8  8 24    15.0 1   328.0     3.60    23.30    99.00    99.00
11  8  9  1    15.0 1   347.0     3.60    22.00    99.00    99.00
11  8  9  2    15.0 1     2.0     3.10    20.80    99.00    99.00
11  8  9  3    15.0 1   355.0     3.10    20.00    99.00    99.00
11  8  9  4    15.0 1   351.0     2.60    19.10    99.00    99.00
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11   8   9   5     15.0 1   338.0      2.10     18.60     99.00     99.00
11   8   9   6     15.0 1   334.0      1.50     18.30     99.00     99.00
11   8   9   7     15.0 1   353.0      2.10     19.30     99.00     99.00
11   8   9   8     15.0 1     0.0      0.00     21.00     99.00     99.00
11   8   9   9     15.0 1     0.0      0.00     23.30     99.00     99.00
11   8   9  10     15.0 1     0.0      0.00     25.10     99.00     99.00
11   8   9  11     15.0 1     0.0      0.00     26.60     99.00     99.00
11   8   9  12     15.0 1     0.0      0.00     28.30     99.00     99.00
11   8   9  13     15.0 1     0.0      0.00     29.60     99.00     99.00
11   8   9  14     15.0 1     0.0      0.00     30.50     99.00     99.00
11   8   9  15     15.0 1    15.0      1.00     31.10     99.00     99.00
11   8   9  16     15.0 1    24.0      2.10     31.40     99.00     99.00
11   8   9  17     15.0 1    30.0      2.10     31.10     99.00     99.00
11   8   9  18     15.0 1    27.0      2.60     30.60     99.00     99.00
11   8   9  19     15.0 1    23.0      2.60     29.50     99.00     99.00
11   8   9  20     15.0 1   287.0      3.10     28.40     99.00     99.00
11   8   9  21     15.0 1   269.0      5.10     24.00     99.00     99.00
11   8   9  22     15.0 1   262.0      4.60     21.90     99.00     99.00
11   8   9  23     15.0 1   274.0      3.60     21.00     99.00     99.00
11   8   9  24     15.0 1   278.0      2.60     20.60     99.00     99.00
11   8  10   1     15.0 1   295.0      1.50     20.40     99.00     99.00
11   8  10   2     15.0 1   302.0      1.50     20.10     99.00     99.00
11   8  10   3     15.0 1   307.0      1.00     20.00     99.00     99.00
11   8  10   4     15.0 1   313.0      1.00     19.60     99.00     99.00
11   8  10   5     15.0 1   300.0      1.00     19.10     99.00     99.00
11   8  10   6     15.0 1   298.0      1.50     18.90     99.00     99.00
11   8  10   7     15.0 1   352.0      1.50     20.10     99.00     99.00
11   8  10   8     15.0 1     0.0      0.00     21.60     99.00     99.00
11   8  10   9     15.0 1     0.0      0.00     23.30     99.00     99.00
11   8  10  10     15.0 1     0.0      0.00     24.90     99.00     99.00
11   8  10  11     15.0 1     0.0      0.00     26.60     99.00     99.00
11   8  10  12     15.0 1     0.0      0.00     28.10     99.00     99.00
11   8  10  13     15.0 1     0.0      0.00     29.30     99.00     99.00
11   8  10  14     15.0 1   330.0      0.50     30.30     99.00     99.00
11   8  10  15     15.0 1     0.0      0.00     30.90     99.00     99.00
11   8  10  16     15.0 1    13.0      1.50     31.10     99.00     99.00
11   8  10  17     15.0 1    22.0      2.10     31.10     99.00     99.00
11   8  10  18     15.0 1    11.0      2.10     30.80     99.00     99.00
11   8  10  19     15.0 1   294.0      3.60     29.60     99.00     99.00
11   8  10  20     15.0 1   273.0      5.10     24.90     99.00     99.00
11   8  10  21     15.0 1   268.0      5.10     22.40     99.00     99.00
11   8  10  22     15.0 1   261.0      4.10     21.10     99.00     99.00
11   8  10  23     15.0 1   261.0      4.10     20.30     99.00     99.00
11   8  10  24     15.0 1   268.0      3.10     19.60     99.00     99.00
11   8  11   1     15.0 1   294.0      1.50     19.30     99.00     99.00
11   8  11   2     15.0 1   318.0      0.50     19.10     99.00     99.00
11   8  11   3     15.0 1   312.0      1.00     18.90     99.00     99.00
11   8  11   4     15.0 1   311.0      1.00     18.60     99.00     99.00
11   8  11   5     15.0 1   323.0      1.50     18.30     99.00     99.00
11   8  11   6     15.0 1   317.0      1.50     18.00     99.00     99.00
11   8  11   7     15.0 1   335.0      1.50     19.00     99.00     99.00
11   8  11   8     15.0 1     0.0      0.00     20.50     99.00     99.00
11   8  11   9     15.0 1     0.0      0.00     22.10     99.00     99.00
11   8  11  10     15.0 1     0.0      0.00     23.60     99.00     99.00
11   8  11  11     15.0 1     0.0      0.00     25.40     99.00     99.00
11   8  11  12     15.0 1     0.0      0.00     27.10     99.00     99.00
11   8  11  13     15.0 1     0.0      0.00     28.60     99.00     99.00
11   8  11  14     15.0 1   344.0      0.50     29.60     99.00     99.00
11   8  11  15     15.0 1     0.0      0.00     30.10     99.00     99.00
11   8  11  16     15.0 1     6.0      2.10     30.50     99.00     99.00
11   8  11  17     15.0 1    18.0      2.60     30.30     99.00     99.00
11   8  11  18     15.0 1    19.0      3.10     29.80     99.00     99.00
11   8  11  19     15.0 1     6.0      3.60     28.60     99.00     99.00
11   8  11  20     15.0 1   309.0      3.10     27.60     99.00     99.00
11   8  11  21     15.0 1   271.0      5.10     24.00     99.00     99.00
11   8  11  22     15.0 1   268.0      5.10     21.60     99.00     99.00
11   8  11  23     15.0 1   266.0      3.60     21.00     99.00     99.00
11   8  11  24     15.0 1   283.0      2.60     20.80     99.00     99.00
11   8  12   1     15.0 1   313.0      3.10     20.60     99.00     99.00
11   8  12   2     15.0 1   328.0      3.60     20.40     99.00     99.00
11   8  12   3     15.0 1   337.0      3.10     19.90     99.00     99.00
11   8  12   4     15.0 1   349.0      2.60     19.10     99.00     99.00
11   8  12   5     15.0 1   347.0      2.10     18.60     99.00     99.00
11   8  12   6     15.0 1   346.0      1.50     18.10     99.00     99.00
11   8  12   7     15.0 1   359.0      2.10     18.80     99.00     99.00
11   8  12   8     15.0 1     0.0      0.00     20.50     99.00     99.00
11   8  12   9     15.0 1     0.0      0.00     22.40     99.00     99.00
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11   8 12 10     15.0 1      0.0      0.00     24.30     99.00     99.00
11   8 12 11     15.0 1      0.0      0.00     26.10     99.00     99.00
11   8 12 12     15.0 1      0.0      0.00     27.80     99.00     99.00
11   8 12 13     15.0 1      0.0      0.00     29.00     99.00     99.00
11   8 12 14     15.0 1    329.0      0.50     29.90     99.00     99.00
11   8 12 15     15.0 1    346.0      1.00     30.40     99.00     99.00
11   8 12 16     15.0 1      0.0      0.00     30.60     99.00     99.00
11   8 12 17     15.0 1     18.0      2.10     30.40     99.00     99.00
11   8 12 18     15.0 1     22.0      2.60     29.90     99.00     99.00
11   8 12 19     15.0 1     26.0      2.60     28.80     99.00     99.00
11   8 12 20     15.0 1    349.0      1.00     27.60     99.00     99.00
11   8 12 21     15.0 1    275.0      4.10     26.00     99.00     99.00
11   8 12 22     15.0 1    282.0      4.60     23.00     99.00     99.00
11   8 12 23     15.0 1    281.0      3.60     21.80     99.00     99.00
11   8 12 24     15.0 1    292.0      2.60     21.10     99.00     99.00
11   8 13  1     15.0 1    282.0      1.50     21.00     99.00     99.00
11   8 13  2     15.0 1    265.0      1.50     20.60     99.00     99.00
11   8 13  3     15.0 1    273.0      1.50     20.40     99.00     99.00
11   8 13  4     15.0 1    295.0      1.00     20.10     99.00     99.00
11   8 13  5     15.0 1    299.0      1.00     19.60     99.00     99.00
11   8 13  6     15.0 1    313.0      1.00     19.10     99.00     99.00
11   8 13  7     15.0 1    346.0      1.50     20.10     99.00     99.00
11   8 13  8     15.0 1      0.0      0.00     21.90     99.00     99.00
11   8 13  9     15.0 1      0.0      0.00     24.10     99.00     99.00
11   8 13 10     15.0 1      0.0      0.00     26.00     99.00     99.00
11   8 13 11     15.0 1      0.0      0.00     27.90     99.00     99.00
11   8 13 12     15.0 1      0.0      0.00     29.60     99.00     99.00
11   8 13 13     15.0 1      0.0      0.00     31.00     99.00     99.00
11   8 13 14     15.0 1    316.0      0.50     32.10     99.00     99.00
11   8 13 15     15.0 1    352.0      1.00     32.90     99.00     99.00
11   8 13 16     15.0 1     10.0      1.50     32.90     99.00     99.00
11   8 13 17     15.0 1     28.0      1.50     32.60     99.00     99.00
11   8 13 18     15.0 1     34.0      1.50     32.40     99.00     99.00
11   8 13 19     15.0 1    288.0      2.60     31.50     99.00     99.00
11   8 13 20     15.0 1    277.0      5.10     27.10     99.00     99.00
11   8 13 21     15.0 1    273.0      4.60     24.30     99.00     99.00
11   8 13 22     15.0 1    280.0      3.60     23.10     99.00     99.00
11   8 13 23     15.0 1    289.0      2.60     22.40     99.00     99.00
11   8 13 24     15.0 1    313.0      1.50     22.00     99.00     99.00
11   8 14  1     15.0 1    311.0      1.00     21.60     99.00     99.00
11   8 14  2     15.0 1    305.0      1.50     21.40     99.00     99.00
11   8 14  3     15.0 1    296.0      1.50     21.10     99.00     99.00
11   8 14  4     15.0 1    308.0      1.50     20.90     99.00     99.00
11   8 14  5     15.0 1    306.0      1.50     20.50     99.00     99.00
11   8 14  6     15.0 1    316.0      1.50     20.10     99.00     99.00
11   8 14  7     15.0 1    350.0      2.10     21.00     99.00     99.00
11   8 14  8     15.0 1    342.0      1.50     22.60     99.00     99.00
11   8 14  9     15.0 1    324.0      0.50     24.30     99.00     99.00
11   8 14 10     15.0 1      0.0      0.00     26.00     99.00     99.00
11   8 14 11     15.0 1      0.0      0.00     27.60     99.00     99.00
11   8 14 12     15.0 1    330.0      0.50     29.10     99.00     99.00
11   8 14 13     15.0 1    338.0      1.50     30.40     99.00     99.00
11   8 14 14     15.0 1    338.0      2.60     31.40     99.00     99.00
11   8 14 15     15.0 1    352.0      3.60     31.80     99.00     99.00
11   8 14 16     15.0 1    357.0      4.10     31.80     99.00     99.00
11   8 14 17     15.0 1    357.0      2.60     31.60     99.00     99.00
11   8 14 18     15.0 1    355.0      3.60     30.90     99.00     99.00
11   8 14 19     15.0 1    336.0      4.10     29.00     99.00     99.00
11   8 14 20     15.0 1    332.0      4.10     26.90     99.00     99.00
11   8 14 21     15.0 1    333.0      3.60     25.60     99.00     99.00
11   8 14 22     15.0 1    318.0      3.60     24.60     99.00     99.00
11   8 14 23     15.0 1    323.0      3.10     23.90     99.00     99.00
11   8 14 24     15.0 1    335.0      2.60     23.10     99.00     99.00
11   8 15  1     15.0 1    337.0      2.10     22.30     99.00     99.00
11   8 15  2     15.0 1    317.0      1.50     21.50     99.00     99.00
11   8 15  3     15.0 1    296.0      1.00     20.80     99.00     99.00
11   8 15  4     15.0 1    295.0      1.00     20.10     99.00     99.00
11   8 15  5     15.0 1    292.0      0.50     19.60     99.00     99.00
11   8 15  6     15.0 1    278.0      0.50     19.30     99.00     99.00
11   8 15  7     15.0 1    347.0      1.50     20.00     99.00     99.00
11   8 15  8     15.0 1      0.0      0.00     21.60     99.00     99.00
11   8 15  9     15.0 1      0.0      0.00     23.10     99.00     99.00
11   8 15 10     15.0 1      0.0      0.00     25.00     99.00     99.00
11   8 15 11     15.0 1      0.0      0.00     26.60     99.00     99.00
11   8 15 12     15.0 1    293.0      0.50     28.30     99.00     99.00
11   8 15 13     15.0 1    303.0      1.00     29.50     99.00     99.00
11   8 15 14     15.0 1    317.0      1.50     30.30     99.00     99.00
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11	8	15	15	15.0	1	345.0	2.60	30.80	99.00	99.00
11	8	15	16	15.0	1	352.0	3.10	30.80	99.00	99.00
11	8	15	17	15.0	1	0.0	0.00	30.00	99.00	99.00
11	8	15	18	15.0	1	12.0	3.10	29.30	99.00	99.00
11	8	15	19	15.0	1	0.0	0.00	28.10	99.00	99.00
11	8	15	20	15.0	1	354.0	2.60	27.00	99.00	99.00
11	8	15	21	15.0	1	316.0	2.60	25.60	99.00	99.00
11	8	15	22	15.0	1	314.0	2.10	24.60	99.00	99.00
11	8	15	23	15.0	1	312.0	2.10	23.60	99.00	99.00
11	8	15	24	15.0	1	318.0	3.10	22.60	99.00	99.00
11	8	16	1	15.0	1	346.0	3.60	21.40	99.00	99.00
11	8	16	2	15.0	1	0.0	0.00	20.10	99.00	99.00
11	8	16	3	15.0	1	12.0	3.10	19.10	99.00	99.00
11	8	16	4	15.0	1	0.0	0.00	18.60	99.00	99.00
11	8	16	5	15.0	1	339.0	1.50	18.10	99.00	99.00
11	8	16	6	15.0	1	326.0	1.00	17.80	99.00	99.00
11	8	16	7	15.0	1	339.0	2.10	18.80	99.00	99.00
11	8	16	8	15.0	1	0.0	0.00	20.40	99.00	99.00
11	8	16	9	15.0	1	0.0	0.00	22.10	99.00	99.00
11	8	16	10	15.0	1	0.0	0.00	23.80	99.00	99.00
11	8	16	11	15.0	1	0.0	0.00	25.60	99.00	99.00
11	8	16	12	15.0	1	0.0	0.00	27.30	99.00	99.00
11	8	16	13	15.0	1	0.0	0.00	28.50	99.00	99.00
11	8	16	14	15.0	1	0.0	0.00	29.40	99.00	99.00
11	8	16	15	15.0	1	14.0	0.50	30.00	99.00	99.00
11	8	16	16	15.0	1	25.0	1.50	30.30	99.00	99.00
11	8	16	17	15.0	1	33.0	2.60	29.90	99.00	99.00
11	8	16	18	15.0	1	37.0	3.10	29.30	99.00	99.00
11	8	16	19	15.0	1	45.0	3.60	28.10	99.00	99.00
11	8	16	20	15.0	1	32.0	2.10	27.10	99.00	99.00
11	8	16	21	15.0	1	249.0	0.50	25.60	99.00	99.00
11	8	16	22	15.0	1	252.0	2.10	24.30	99.00	99.00
11	8	16	23	15.0	1	274.0	2.10	23.10	99.00	99.00
11	8	16	24	15.0	1	307.0	2.10	22.30	99.00	99.00
11	8	17	1	15.0	1	338.0	3.60	21.50	99.00	99.00
11	8	17	2	15.0	1	353.0	3.60	20.00	99.00	99.00
11	8	17	3	15.0	1	350.0	3.10	19.10	99.00	99.00
11	8	17	4	15.0	1	356.0	2.60	18.40	99.00	99.00
11	8	17	5	15.0	1	358.0	2.10	17.90	99.00	99.00
11	8	17	6	15.0	1	347.0	1.50	17.50	99.00	99.00
11	8	17	7	15.0	1	4.0	2.60	18.30	99.00	99.00
11	8	17	8	15.0	1	349.0	0.50	20.00	99.00	99.00
11	8	17	9	15.0	1	0.0	0.00	22.50	99.00	99.00
11	8	17	10	15.0	1	0.0	0.00	24.50	99.00	99.00
11	8	17	11	15.0	1	0.0	0.00	26.10	99.00	99.00
11	8	17	12	15.0	1	296.0	0.50	27.80	99.00	99.00
11	8	17	13	15.0	1	0.0	0.00	29.10	99.00	99.00
11	8	17	14	15.0	1	339.0	0.50	30.10	99.00	99.00
11	8	17	15	15.0	1	5.0	1.00	30.60	99.00	99.00
11	8	17	16	15.0	1	12.0	2.10	30.90	99.00	99.00
11	8	17	17	15.0	1	22.0	2.10	30.50	99.00	99.00
11	8	17	18	15.0	1	32.0	2.60	30.00	99.00	99.00
11	8	17	19	15.0	1	28.0	3.10	28.60	99.00	99.00
11	8	17	20	15.0	1	31.0	1.50	27.50	99.00	99.00
11	8	17	21	15.0	1	0.0	0.00	26.10	99.00	99.00
11	8	17	22	15.0	1	252.0	1.50	24.60	99.00	99.00
11	8	17	23	15.0	1	257.0	2.10	23.60	99.00	99.00
11	8	17	24	15.0	1	277.0	1.50	22.60	99.00	99.00
11	8	18	1	15.0	1	298.0	1.50	21.90	99.00	99.00
11	8	18	2	15.0	1	325.0	2.60	21.40	99.00	99.00
11	8	18	3	15.0	1	344.0	3.60	20.60	99.00	99.00
11	8	18	4	15.0	1	348.0	3.10	19.90	99.00	99.00
11	8	18	5	15.0	1	0.0	0.00	19.30	99.00	99.00
11	8	18	6	15.0	1	10.0	2.10	19.00	99.00	99.00
11	8	18	7	15.0	1	12.0	2.10	20.00	99.00	99.00
11	8	18	8	15.0	1	14.0	0.50	21.60	99.00	99.00
11	8	18	9	15.0	1	0.0	0.00	23.60	99.00	99.00
11	8	18	10	15.0	1	0.0	0.00	25.10	99.00	99.00
11	8	18	11	15.0	1	0.0	0.00	26.60	99.00	99.00
11	8	18	12	15.0	1	0.0	0.00	28.10	99.00	99.00
11	8	18	13	15.0	1	0.0	0.00	29.40	99.00	99.00
11	8	18	14	15.0	1	0.0	0.00	30.40	99.00	99.00
11	8	18	15	15.0	1	41.0	0.50	31.00	99.00	99.00
11	8	18	16	15.0	1	21.0	1.50	31.30	99.00	99.00
11	8	18	17	15.0	1	34.0	2.10	31.00	99.00	99.00
11	8	18	18	15.0	1	33.0	2.60	30.50	99.00	99.00
11	8	18	19	15.0	1	8.0	2.10	29.40	99.00	99.00

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11   8 18 20     15.0 1   275.0      3.10     28.10     99.00     99.00
11   8 18 21     15.0 1   260.0      5.10     24.10     99.00     99.00
11   8 18 22     15.0 1   265.0      5.10     22.10     99.00     99.00
11   8 18 23     15.0 1   263.0      4.10     21.10     99.00     99.00
11   8 18 24     15.0 1   284.0      3.10     20.60     99.00     99.00
11   8 19  1     15.0 1   300.0      2.60     20.60     99.00     99.00
11   8 19  2     15.0 1   331.0      2.10     20.40     99.00     99.00
11   8 19  3     15.0 1   345.0      1.50     20.10     99.00     99.00
11   8 19  4     15.0 1   341.0      0.50     19.60     99.00     99.00
11   8 19  5     15.0 1   310.0      0.50     19.10     99.00     99.00
11   8 19  6     15.0 1     0.0      0.00     18.60     99.00     99.00
11   8 19  7     15.0 1   341.0      0.50     19.60     99.00     99.00
11   8 19  8     15.0 1     0.0      0.00     21.30     99.00     99.00
11   8 19  9     15.0 1     0.0      0.00     22.90     99.00     99.00
11   8 19 10     15.0 1     0.0      0.00     24.50     99.00     99.00
11   8 19 11     15.0 1     0.0      0.00     26.10     99.00     99.00
11   8 19 12     15.0 1     0.0      0.00     27.60     99.00     99.00
11   8 19 13     15.0 1     0.0      0.00     28.80     99.00     99.00
11   8 19 14     15.0 1     0.0      0.00     29.60     99.00     99.00
11   8 19 15     15.0 1    12.0      0.50     30.40     99.00     99.00
11   8 19 16     15.0 1    23.0      1.00     30.60     99.00     99.00
11   8 19 17     15.0 1    28.0      2.10     30.60     99.00     99.00
11   8 19 18     15.0 1    19.0      2.10     30.10     99.00     99.00
11   8 19 19     15.0 1   305.0      3.10     28.90     99.00     99.00
11   8 19 20     15.0 1   267.0      5.10     24.60     99.00     99.00
11   8 19 21     15.0 1   273.0      5.10     21.80     99.00     99.00
11   8 19 22     15.0 1   259.0      4.60     20.60     99.00     99.00
11   8 19 23     15.0 1   256.0      4.10     19.60     99.00     99.00
11   8 19 24     15.0 1   272.0      3.10     18.90     99.00     99.00
11   8 20  1     15.0 1   299.0      1.50     18.50     99.00     99.00
11   8 20  2     15.0 1   304.0      1.50     18.10     99.00     99.00
11   8 20  3     15.0 1   296.0      2.10     17.60     99.00     99.00
11   8 20  4     15.0 1   287.0      2.10     17.30     99.00     99.00
11   8 20  5     15.0 1   301.0      2.10     17.00     99.00     99.00
11   8 20  6     15.0 1   298.0      2.10     16.60     99.00     99.00
11   8 20  7     15.0 1   286.0      2.60     17.40     99.00     99.00
11   8 20  8     15.0 1   287.0      1.00     19.00     99.00     99.00
11   8 20  9     15.0 1     0.0      0.00     20.60     99.00     99.00
11   8 20 10     15.0 1     0.0      0.00     22.40     99.00     99.00
11   8 20 11     15.0 1     0.0      0.00     24.10     99.00     99.00
11   8 20 12     15.0 1     0.0      0.00     25.80     99.00     99.00
11   8 20 13     15.0 1   309.0      0.50     27.10     99.00     99.00
11   8 20 14     15.0 1   316.0      0.50     28.10     99.00     99.00
11   8 20 15     15.0 1   327.0      1.00     28.90     99.00     99.00
11   8 20 16     15.0 1   328.0      1.50     29.30     99.00     99.00
11   8 20 17     15.0 1   332.0      2.10     29.10     99.00     99.00
11   8 20 18     15.0 1   307.0      2.60     28.80     99.00     99.00
11   8 20 19     15.0 1   277.0      4.60     25.90     99.00     99.00
11   8 20 20     15.0 1   269.0      5.70     21.90     99.00     99.00
11   8 20 21     15.0 1   266.0      5.10     20.10     99.00     99.00
11   8 20 22     15.0 1   275.0      4.60     18.90     99.00     99.00
11   8 20 23     15.0 1   285.0      4.10     17.90     99.00     99.00
11   8 20 24     15.0 1   291.0      3.10     17.10     99.00     99.00
11   8 21  1     15.0 1   305.0      2.10     16.90     99.00     99.00
11   8 21  2     15.0 1   309.0      1.50     16.90     99.00     99.00
11   8 21  3     15.0 1   320.0      1.00     16.60     99.00     99.00
11   8 21  4     15.0 1   331.0      0.50     16.50     99.00     99.00
11   8 21  5     15.0 1   356.0      0.50     16.10     99.00     99.00
11   8 21  6     15.0 1    15.0      0.50     15.90     99.00     99.00
11   8 21  7     15.0 1   351.0      1.50     16.90     99.00     99.00
11   8 21  8     15.0 1     0.0      0.00     18.50     99.00     99.00
11   8 21  9     15.0 1     0.0      0.00     20.00     99.00     99.00
11   8 21 10     15.0 1     0.0      0.00     21.90     99.00     99.00
11   8 21 11     15.0 1     0.0      0.00     23.60     99.00     99.00
11   8 21 12     15.0 1     0.0      0.00     25.30     99.00     99.00
11   8 21 13     15.0 1   324.0      0.50     26.90     99.00     99.00
11   8 21 14     15.0 1   339.0      1.50     28.00     99.00     99.00
11   8 21 15     15.0 1   353.0      2.10     28.60     99.00     99.00
11   8 21 16     15.0 1     5.0      2.10     28.80     99.00     99.00
11   8 21 17     15.0 1     0.0      0.00     28.60     99.00     99.00
11   8 21 18     15.0 1    14.0      2.60     28.10     99.00     99.00
11   8 21 19     15.0 1     0.0      0.00     27.00     99.00     99.00
11   8 21 20     15.0 1   287.0      4.60     24.90     99.00     99.00
11   8 21 21     15.0 1   275.0      5.10     20.90     99.00     99.00
11   8 21 22     15.0 1   284.0      4.10     19.40     99.00     99.00
11   8 21 23     15.0 1   287.0      3.10     18.50     99.00     99.00
11   8 21 24     15.0 1   311.0      2.60     17.90     99.00     99.00
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11  8 22  1    15.0 1   316.0     2.60    17.60    99.00    99.00
11  8 22  2    15.0 1   323.0     2.10    17.60    99.00    99.00
11  8 22  3    15.0 1   324.0     1.50    17.60    99.00    99.00
11  8 22  4    15.0 1   342.0     1.50    17.50    99.00    99.00
11  8 22  5    15.0 1   347.0     1.00    17.10    99.00    99.00
11  8 22  6    15.0 1   346.0     1.50    16.80    99.00    99.00
11  8 22  7    15.0 1     0.0     0.00    17.10    99.00    99.00
11  8 22  8    15.0 1     0.0     0.00    18.50    99.00    99.00
11  8 22  9    15.0 1     0.0     0.00    20.60    99.00    99.00
11  8 22 10    15.0 1     0.0     0.00    22.40    99.00    99.00
11  8 22 11    15.0 1     0.0     0.00    24.10    99.00    99.00
11  8 22 12    15.0 1     0.0     0.00    25.50    99.00    99.00
11  8 22 13    15.0 1     0.0     0.00    26.80    99.00    99.00
11  8 22 14    15.0 1     0.0     0.00    27.80    99.00    99.00
11  8 22 15    15.0 1     0.0     0.00    28.40    99.00    99.00
11  8 22 16    15.0 1    75.0     0.50    28.60    99.00    99.00
11  8 22 17    15.0 1   104.0     1.00    28.50    99.00    99.00
11  8 22 18    15.0 1   127.0     1.00    27.60    99.00    99.00
11  8 22 19    15.0 1   161.0     1.50    26.60    99.00    99.00
11  8 22 20    15.0 1   183.0     1.50    25.60    99.00    99.00
11  8 22 21    15.0 1   191.0     1.00    24.80    99.00    99.00
11  8 22 22    15.0 1   196.0     0.50    24.30    99.00    99.00
11  8 22 23    15.0 1   286.0     1.00    23.80    99.00    99.00
11  8 22 24    15.0 1   314.0     2.10    23.30    99.00    99.00
11  8 23  1    15.0 1   309.0     2.60    22.80    99.00    99.00
11  8 23  2    15.0 1   319.0     2.60    22.40    99.00    99.00
11  8 23  3    15.0 1   324.0     2.60    21.90    99.00    99.00
11  8 23  4    15.0 1   331.0     3.10    21.40    99.00    99.00
11  8 23  5    15.0 1   339.0     2.10    20.90    99.00    99.00
11  8 23  6    15.0 1   342.0     2.10    20.60    99.00    99.00
11  8 23  7    15.0 1   353.0     2.10    20.50    99.00    99.00
11  8 23  8    15.0 1   342.0     1.50    20.90    99.00    99.00
11  8 23  9    15.0 1   296.0     0.50    22.60    99.00    99.00
11  8 23 10    15.0 1   292.0     0.50    24.50    99.00    99.00
11  8 23 11    15.0 1   295.0     0.50    26.30    99.00    99.00
11  8 23 12    15.0 1   277.0     0.50    27.90    99.00    99.00
11  8 23 13    15.0 1   278.0     0.50    29.10    99.00    99.00
11  8 23 14    15.0 1   301.0     0.50    30.30    99.00    99.00
11  8 23 15    15.0 1   308.0     0.50    31.00    99.00    99.00
11  8 23 16    15.0 1   354.0     1.00    31.60    99.00    99.00
11  8 23 17    15.0 1   358.0     1.50    31.50    99.00    99.00
11  8 23 18    15.0 1     2.0     1.50    31.10    99.00    99.00
11  8 23 19    15.0 1     5.0     1.00    29.80    99.00    99.00
11  8 23 20    15.0 1   270.0     1.50    28.50    99.00    99.00
11  8 23 21    15.0 1   282.0     4.60    26.10    99.00    99.00
11  8 23 22    15.0 1   285.0     3.60    23.60    99.00    99.00
11  8 23 23    15.0 1   288.0     3.10    22.60    99.00    99.00
11  8 23 24    15.0 1   325.0     3.10    21.90    99.00    99.00
11  8 24  1    15.0 1   344.0     3.10    21.10    99.00    99.00
11  8 24  2    15.0 1     5.0     2.60    20.60    99.00    99.00
11  8 24  3    15.0 1     9.0     2.60    20.10    99.00    99.00
11  8 24  4    15.0 1     0.0     0.00    19.60    99.00    99.00
11  8 24  5    15.0 1     4.0     1.00    19.30    99.00    99.00
11  8 24  6    15.0 1   352.0     1.00    19.10    99.00    99.00
11  8 24  7    15.0 1   307.0     2.10    20.10    99.00    99.00
11  8 24  8    15.0 1   310.0     1.00    22.00    99.00    99.00
11  8 24  9    15.0 1     0.0     0.00    24.10    99.00    99.00
11  8 24 10    15.0 1     0.0     0.00    26.00    99.00    99.00
11  8 24 11    15.0 1     0.0     0.00    27.80    99.00    99.00
11  8 24 12    15.0 1     0.0     0.00    29.60    99.00    99.00
11  8 24 13    15.0 1     0.0     0.00    31.00    99.00    99.00
11  8 24 14    15.0 1   357.0     0.50    32.10    99.00    99.00
11  8 24 15    15.0 1    10.0     1.00    32.90    99.00    99.00
11  8 24 16    15.0 1     9.0     2.10    33.40    99.00    99.00
11  8 24 17    15.0 1     0.0     0.00    33.10    99.00    99.00
11  8 24 18    15.0 1   325.0     3.10    32.50    99.00    99.00
11  8 24 19    15.0 1   284.0     5.10    28.60    99.00    99.00
11  8 24 20    15.0 1   266.0     5.10    24.90    99.00    99.00
11  8 24 21    15.0 1   269.0     4.10    23.10    99.00    99.00
11  8 24 22    15.0 1   269.0     4.10    22.00    99.00    99.00
11  8 24 23    15.0 1   278.0     2.60    21.30    99.00    99.00
11  8 24 24    15.0 1   306.0     1.50    20.90    99.00    99.00
11  8 25  1    15.0 1   320.0     1.50    20.60    99.00    99.00
11  8 25  2    15.0 1   322.0     2.10    20.40    99.00    99.00
11  8 25  3    15.0 1   306.0     2.10    20.10    99.00    99.00
11  8 25  4    15.0 1   306.0     2.10    19.60    99.00    99.00
11  8 25  5    15.0 1   318.0     2.10    19.40    99.00    99.00
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11   8 25   6     15.0 1   335.0      2.10     19.00     99.00     99.00
11   8 25   7     15.0 1   350.0      2.60     19.60     99.00     99.00
11   8 25   8     15.0 1   354.0      1.00     21.00     99.00     99.00
11   8 25   9     15.0 1     0.0      0.00     22.50     99.00     99.00
11   8 25  10     15.0 1     0.0      0.00     24.30     99.00     99.00
11   8 25  11     15.0 1     0.0      0.00     26.10     99.00     99.00
11   8 25  12     15.0 1     0.0      0.00     27.60     99.00     99.00
11   8 25  13     15.0 1   332.0      0.50     29.00     99.00     99.00
11   8 25  14     15.0 1   337.0      1.00     30.10     99.00     99.00
11   8 25  15     15.0 1   355.0      1.50     30.90     99.00     99.00
11   8 25  16     15.0 1     3.0      2.10     31.10     99.00     99.00
11   8 25  17     15.0 1    13.0      2.10     31.00     99.00     99.00
11   8 25  18     15.0 1    16.0      3.10     30.40     99.00     99.00
11   8 25  19     15.0 1    19.0      3.10     29.10     99.00     99.00
11   8 25  20     15.0 1   347.0      2.10     28.00     99.00     99.00
11   8 25  21     15.0 1   291.0      4.10     26.40     99.00     99.00
11   8 25  22     15.0 1   288.0      4.10     23.60     99.00     99.00
11   8 25  23     15.0 1   298.0      3.10     22.60     99.00     99.00
11   8 25  24     15.0 1   323.0      3.10     22.10     99.00     99.00
11   8 26   1     15.0 1   343.0      2.60     21.60     99.00     99.00
11   8 26   2     15.0 1   352.0      2.60     21.10     99.00     99.00
11   8 26   3     15.0 1     0.0      0.00     20.50     99.00     99.00
11   8 26   4     15.0 1    10.0      1.50     19.90     99.00     99.00
11   8 26   5     15.0 1     8.0      1.50     19.40     99.00     99.00
11   8 26   6     15.0 1     7.0      1.00     19.00     99.00     99.00
11   8 26   7     15.0 1    11.0      1.50     19.40     99.00     99.00
11   8 26   8     15.0 1     0.0      0.00     21.00     99.00     99.00
11   8 26   9     15.0 1     0.0      0.00     22.60     99.00     99.00
11   8 26  10     15.0 1     0.0      0.00     24.40     99.00     99.00
11   8 26  11     15.0 1     0.0      0.00     26.40     99.00     99.00
11   8 26  12     15.0 1     0.0      0.00     27.80     99.00     99.00
11   8 26  13     15.0 1     0.0      0.00     28.90     99.00     99.00
11   8 26  14     15.0 1    42.0      0.50     29.50     99.00     99.00
11   8 26  15     15.0 1    38.0      0.50     29.80     99.00     99.00
11   8 26  16     15.0 1    46.0      1.00     29.90     99.00     99.00
11   8 26  17     15.0 1    74.0      1.50     29.60     99.00     99.00
11   8 26  18     15.0 1    56.0      1.00     29.00     99.00     99.00
11   8 26  19     15.0 1     0.0      0.00     28.10     99.00     99.00
11   8 26  20     15.0 1   225.0      0.50     27.40     99.00     99.00
11   8 26  21     15.0 1   231.0      1.00     27.00     99.00     99.00
11   8 26  22     15.0 1   264.0      2.10     26.60     99.00     99.00
11   8 26  23     15.0 1   270.0      2.10     25.60     99.00     99.00
11   8 26  24     15.0 1   294.0      2.60     25.00     99.00     99.00
11   8 27   1     15.0 1   295.0      3.60     24.10     99.00     99.00
11   8 27   2     15.0 1   311.0      3.10     23.60     99.00     99.00
11   8 27   3     15.0 1   322.0      3.10     23.30     99.00     99.00
11   8 27   4     15.0 1   334.0      2.10     22.90     99.00     99.00
11   8 27   5     15.0 1   341.0      1.50     22.40     99.00     99.00
11   8 27   6     15.0 1   359.0      1.00     22.00     99.00     99.00
11   8 27   7     15.0 1    15.0      1.00     21.60     99.00     99.00
11   8 27   8     15.0 1     0.0      0.00     22.10     99.00     99.00
11   8 27   9     15.0 1   348.0      0.50     23.50     99.00     99.00
11   8 27  10     15.0 1   324.0      0.50     25.40     99.00     99.00
11   8 27  11     15.0 1   325.0      0.50     26.60     99.00     99.00
11   8 27  12     15.0 1     0.0      0.00     27.80     99.00     99.00
11   8 27  13     15.0 1   343.0      0.50     29.00     99.00     99.00
11   8 27  14     15.0 1   355.0      0.50     30.10     99.00     99.00
11   8 27  15     15.0 1     6.0      1.00     31.10     99.00     99.00
11   8 27  16     15.0 1    10.0      1.50     31.60     99.00     99.00
11   8 27  17     15.0 1    22.0      1.50     31.80     99.00     99.00
11   8 27  18     15.0 1    19.0      1.00     31.50     99.00     99.00
11   8 27  19     15.0 1   322.0      0.50     30.30     99.00     99.00
11   8 27  20     15.0 1     0.0      0.00     28.90     99.00     99.00
11   8 27  21     15.0 1   254.0      1.00     27.90     99.00     99.00
11   8 27  22     15.0 1   269.0      3.10     26.60     99.00     99.00
11   8 27  23     15.0 1   281.0      3.10     25.30     99.00     99.00
11   8 27  24     15.0 1   294.0      3.60     24.10     99.00     99.00
11   8 28   1     15.0 1   306.0      3.60     23.30     99.00     99.00
11   8 28   2     15.0 1   322.0      3.10     22.90     99.00     99.00
11   8 28   3     15.0 1   331.0      2.60     22.30     99.00     99.00
11   8 28   4     15.0 1   344.0      1.50     21.60     99.00     99.00
11   8 28   5     15.0 1   341.0      1.50     21.00     99.00     99.00
11   8 28   6     15.0 1   317.0      1.50     20.50     99.00     99.00
11   8 28   7     15.0 1   355.0      2.10     20.60     99.00     99.00
11   8 28   8     15.0 1   331.0      1.50     22.10     99.00     99.00
11   8 28   9     15.0 1   318.0      1.00     24.40     99.00     99.00
11   8 28  10     15.0 1   311.0      1.00     26.60     99.00     99.00
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```
11  8 28 11    15.0 1   315.0     0.50    28.40    99.00    99.00
11  8 28 12    15.0 1   334.0     0.50    30.00    99.00    99.00
11  8 28 13    15.0 1   348.0     0.50    31.40    99.00    99.00
11  8 28 14    15.0 1     0.0     0.00    32.40    99.00    99.00
11  8 28 15    15.0 1    14.0     1.50    33.00    99.00    99.00
11  8 28 16    15.0 1    12.0     1.50    33.30    99.00    99.00
11  8 28 17    15.0 1    29.0     1.50    32.90    99.00    99.00
11  8 28 18    15.0 1    29.0     2.60    32.40    99.00    99.00
11  8 28 19    15.0 1    24.0     2.10    31.00    99.00    99.00
11  8 28 20    15.0 1   288.0     2.60    29.80    99.00    99.00
11  8 28 21    15.0 1   280.0     4.60    26.40    99.00    99.00
11  8 28 22    15.0 1   282.0     3.60    24.10    99.00    99.00
11  8 28 23    15.0 1   283.0     3.10    23.60    99.00    99.00
11  8 28 24    15.0 1   286.0     3.10    23.40    99.00    99.00
11  8 29  1    15.0 1   303.0     3.10    23.10    99.00    99.00
11  8 29  2    15.0 1   323.0     2.10    22.60    99.00    99.00
11  8 29  3    15.0 1   343.0     1.00    22.10    99.00    99.00
11  8 29  4    15.0 1     4.0     1.00    21.50    99.00    99.00
11  8 29  5    15.0 1   347.0     1.00    20.90    99.00    99.00
11  8 29  6    15.0 1   340.0     1.00    20.30    99.00    99.00
11  8 29  7    15.0 1   360.0     1.50    20.60    99.00    99.00
11  8 29  8    15.0 1   354.0     1.00    22.10    99.00    99.00
11  8 29  9    15.0 1     0.0     0.00    24.50    99.00    99.00
11  8 29 10    15.0 1     0.0     0.00    26.40    99.00    99.00
11  8 29 11    15.0 1     0.0     0.00    28.10    99.00    99.00
11  8 29 12    15.0 1     0.0     0.00    29.60    99.00    99.00
11  8 29 13    15.0 1   336.0     0.50    30.90    99.00    99.00
11  8 29 14    15.0 1   357.0     0.50    31.80    99.00    99.00
11  8 29 15    15.0 1     0.0     0.00    32.40    99.00    99.00
11  8 29 16    15.0 1     6.0     2.10    32.60    99.00    99.00
11  8 29 17    15.0 1    19.0     2.10    32.10    99.00    99.00
11  8 29 18    15.0 1    23.0     2.60    31.60    99.00    99.00
11  8 29 19    15.0 1    10.0     2.10    30.10    99.00    99.00
11  8 29 20    15.0 1   304.0     1.50    29.10    99.00    99.00
11  8 29 21    15.0 1   258.0     4.60    26.50    99.00    99.00
11  8 29 22    15.0 1   273.0     4.60    23.60    99.00    99.00
11  8 29 23    15.0 1   292.0     3.10    23.10    99.00    99.00
11  8 29 24    15.0 1   305.0     3.10    22.60    99.00    99.00
11  8 30  1    15.0 1   319.0     3.10    21.90    99.00    99.00
11  8 30  2    15.0 1   349.0     3.10    21.10    99.00    99.00
11  8 30  3    15.0 1   358.0     2.10    20.50    99.00    99.00
11  8 30  4    15.0 1     0.0     0.00    19.80    99.00    99.00
11  8 30  5    15.0 1     0.0     0.00    19.10    99.00    99.00
11  8 30  6    15.0 1     0.0     0.00    18.60    99.00    99.00
11  8 30  7    15.0 1   360.0     2.10    18.90    99.00    99.00
11  8 30  8    15.0 1   347.0     1.00    20.50    99.00    99.00
11  8 30  9    15.0 1     0.0     0.00    22.50    99.00    99.00
11  8 30 10    15.0 1     0.0     0.00    24.30    99.00    99.00
11  8 30 11    15.0 1     0.0     0.00    26.30    99.00    99.00
11  8 30 12    15.0 1     0.0     0.00    28.00    99.00    99.00
11  8 30 13    15.0 1   312.0     0.50    29.50    99.00    99.00
11  8 30 14    15.0 1   332.0     1.00    30.60    99.00    99.00
11  8 30 15    15.0 1   347.0     1.50    31.30    99.00    99.00
11  8 30 16    15.0 1   347.0     2.10    31.60    99.00    99.00
11  8 30 17    15.0 1   354.0     2.10    31.10    99.00    99.00
11  8 30 18    15.0 1   317.0     3.60    30.40    99.00    99.00
11  8 30 19    15.0 1   292.0     5.10    26.60    99.00    99.00
11  8 30 20    15.0 1   270.0     5.70    22.90    99.00    99.00
11  8 30 21    15.0 1   268.0     5.10    21.10    99.00    99.00
11  8 30 22    15.0 1   269.0     4.10    20.10    99.00    99.00
11  8 30 23    15.0 1   267.0     4.10    19.00    99.00    99.00
11  8 30 24    15.0 1   278.0     3.10    18.10    99.00    99.00
11  8 31  1    15.0 1   288.0     2.60    17.60    99.00    99.00
11  8 31  2    15.0 1   313.0     2.10    17.10    99.00    99.00
11  8 31  3    15.0 1   324.0     2.10    17.00    99.00    99.00
11  8 31  4    15.0 1   321.0     2.10    16.80    99.00    99.00
11  8 31  5    15.0 1   318.0     2.10    16.60    99.00    99.00
11  8 31  6    15.0 1   343.0     1.50    16.30    99.00    99.00
11  8 31  7    15.0 1   312.0     2.10    17.10    99.00    99.00
11  8 31  8    15.0 1   325.0     1.00    19.00    99.00    99.00
11  8 31  9    15.0 1     0.0     0.00    21.00    99.00    99.00
11  8 31 10    15.0 1     0.0     0.00    22.90    99.00    99.00
11  8 31 11    15.0 1     0.0     0.00    25.10    99.00    99.00
11  8 31 12    15.0 1     0.0     0.00    27.00    99.00    99.00
11  8 31 13    15.0 1     0.0     0.00    28.40    99.00    99.00
11  8 31 14    15.0 1   340.0     0.50    29.50    99.00    99.00
11  8 31 15    15.0 1     4.0     1.00    30.10    99.00    99.00
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11   8 31 16     15.0 1      0.0      0.00     30.40     99.00     99.00
11   8 31 17     15.0 1     18.0      2.10     30.00     99.00     99.00
11   8 31 18     15.0 1      7.0      3.10     29.40     99.00     99.00
11   8 31 19     15.0 1    335.0      4.10     27.60     99.00     99.00
11   8 31 20     15.0 1    281.0      5.10     23.60     99.00     99.00
11   8 31 21     15.0 1    275.0      4.60     21.10     99.00     99.00
11   8 31 22     15.0 1    276.0      4.10     20.30     99.00     99.00
11   8 31 23     15.0 1    286.0      3.60     19.50     99.00     99.00
11   8 31 24     15.0 1    310.0      3.10     18.90     99.00     99.00
11   9  1  1     15.0 1    330.0      2.60     18.40     99.00     99.00
11   9  1  2     15.0 1    354.0      2.60     17.90     99.00     99.00
11   9  1  3     15.0 1    348.0      2.60     17.50     99.00     99.00
11   9  1  4     15.0 1    338.0      1.50     17.30     99.00     99.00
11   9  1  5     15.0 1    324.0      1.00     17.10     99.00     99.00
11   9  1  6     15.0 1    288.0      0.50     16.90     99.00     99.00
11   9  1  7     15.0 1    274.0      1.00     17.90     99.00     99.00
11   9  1  8     15.0 1    276.0      0.50     20.10     99.00     99.00
11   9  1  9     15.0 1      0.0      0.00     22.00     99.00     99.00
11   9  1 10     15.0 1      0.0      0.00     23.80     99.00     99.00
11   9  1 11     15.0 1      0.0      0.00     26.00     99.00     99.00
11   9  1 12     15.0 1      0.0      0.00     27.60     99.00     99.00
11   9  1 13     15.0 1      0.0      0.00     29.10     99.00     99.00
11   9  1 14     15.0 1      0.0      0.00     30.10     99.00     99.00
11   9  1 15     15.0 1    328.0      1.00     30.80     99.00     99.00
11   9  1 16     15.0 1    348.0      1.50     31.00     99.00     99.00
11   9  1 17     15.0 1    358.0      2.10     30.60     99.00     99.00
11   9  1 18     15.0 1      0.0      0.00     29.90     99.00     99.00
11   9  1 19     15.0 1     12.0      3.10     28.50     99.00     99.00
11   9  1 20     15.0 1    354.0      1.50     27.30     99.00     99.00
11   9  1 21     15.0 1    279.0      3.60     25.60     99.00     99.00
11   9  1 22     15.0 1    293.0      3.60     23.10     99.00     99.00
11   9  1 23     15.0 1    312.0      3.60     21.60     99.00     99.00
11   9  1 24     15.0 1    306.0      3.10     20.90     99.00     99.00
11   9  2  1     15.0 1    316.0      3.10     20.10     99.00     99.00
11   9  2  2     15.0 1    320.0      2.60     19.60     99.00     99.00
11   9  2  3     15.0 1    310.0      2.10     19.40     99.00     99.00
11   9  2  4     15.0 1    286.0      2.10     19.10     99.00     99.00
11   9  2  5     15.0 1    284.0      2.10     18.90     99.00     99.00
11   9  2  6     15.0 1    270.0      1.50     18.60     99.00     99.00
11   9  2  7     15.0 1    295.0      2.10     19.10     99.00     99.00
11   9  2  8     15.0 1    310.0      1.50     20.80     99.00     99.00
11   9  2  9     15.0 1      0.0      0.00     23.00     99.00     99.00
11   9  2 10     15.0 1      0.0      0.00     25.10     99.00     99.00
11   9  2 11     15.0 1      0.0      0.00     27.10     99.00     99.00
11   9  2 12     15.0 1      0.0      0.00     29.00     99.00     99.00
11   9  2 13     15.0 1      0.0      0.00     30.60     99.00     99.00
11   9  2 14     15.0 1    324.0      0.50     31.60     99.00     99.00
11   9  2 15     15.0 1    344.0      1.00     32.40     99.00     99.00
11   9  2 16     15.0 1      0.0      0.00     31.60     99.00     99.00
11   9  2 17     15.0 1     13.0      2.60     30.90     99.00     99.00
11   9  2 18     15.0 1     21.0      3.60     29.80     99.00     99.00
11   9  2 19     15.0 1     18.0      3.10     28.40     99.00     99.00
11   9  2 20     15.0 1    306.0      1.50     27.10     99.00     99.00
11   9  2 21     15.0 1    286.0      5.10     24.60     99.00     99.00
11   9  2 22     15.0 1    289.0      4.10     22.10     99.00     99.00
11   9  2 23     15.0 1    295.0      3.60     21.00     99.00     99.00
11   9  2 24     15.0 1    307.0      3.10     20.30     99.00     99.00
11   9  3  1     15.0 1    346.0      2.60     19.90     99.00     99.00
11   9  3  2     15.0 1      8.0      2.10     19.50     99.00     99.00
11   9  3  3     15.0 1     10.0      0.50     19.10     99.00     99.00
11   9  3  4     15.0 1    249.0      0.50     19.00     99.00     99.00
11   9  3  5     15.0 1    261.0      0.50     18.60     99.00     99.00
11   9  3  6     15.0 1      0.0      0.00     18.10     99.00     99.00
11   9  3  7     15.0 1      0.0      0.00     18.50     99.00     99.00
11   9  3  8     15.0 1    341.0      0.50     20.80     99.00     99.00
11   9  3  9     15.0 1      0.0      0.00     22.60     99.00     99.00
11   9  3 10     15.0 1      0.0      0.00     24.10     99.00     99.00
11   9  3 11     15.0 1      0.0      0.00     26.00     99.00     99.00
11   9  3 12     15.0 1      0.0      0.00     27.90     99.00     99.00
11   9  3 13     15.0 1      0.0      0.00     29.30     99.00     99.00
11   9  3 14     15.0 1      0.0      0.00     30.40     99.00     99.00
11   9  3 15     15.0 1      6.0      0.50     31.10     99.00     99.00
11   9  3 16     15.0 1     17.0      1.50     31.30     99.00     99.00
11   9  3 17     15.0 1     26.0      1.50     30.90     99.00     99.00
11   9  3 18     15.0 1     26.0      2.60     30.10     99.00     99.00
11   9  3 19     15.0 1     15.0      1.50     28.80     99.00     99.00
11   9  3 20     15.0 1    302.0      3.60     27.40     99.00     99.00
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11  9  3 21    15.0 1   292.0     4.60    23.30    99.00    99.00
11  9  3 22    15.0 1   290.0     4.10    21.60    99.00    99.00
11  9  3 23    15.0 1   298.0     3.60    20.60    99.00    99.00
11  9  3 24    15.0 1   333.0     3.10    19.80    99.00    99.00
11  9  4  1    15.0 1   353.0     3.10    19.10    99.00    99.00
11  9  4  2    15.0 1     2.0     2.60    18.80    99.00    99.00
11  9  4  3    15.0 1     2.0     1.50    18.60    99.00    99.00
11  9  4  4    15.0 1   341.0     0.50    18.40    99.00    99.00
11  9  4  5    15.0 1   314.0     0.50    18.10    99.00    99.00
11  9  4  6    15.0 1   327.0     0.50    17.60    99.00    99.00
11  9  4  7    15.0 1   346.0     1.50    18.00    99.00    99.00
11  9  4  8    15.0 1   349.0     1.00    19.60    99.00    99.00
11  9  4  9    15.0 1     0.0     0.00    21.80    99.00    99.00
11  9  4 10    15.0 1     0.0     0.00    23.80    99.00    99.00
11  9  4 11    15.0 1     0.0     0.00    25.60    99.00    99.00
11  9  4 12    15.0 1     0.0     0.00    27.40    99.00    99.00
11  9  4 13    15.0 1     0.0     0.00    28.60    99.00    99.00
11  9  4 14    15.0 1   345.0     0.50    29.80    99.00    99.00
11  9  4 15    15.0 1     5.0     1.00    30.60    99.00    99.00
11  9  4 16    15.0 1    13.0     1.50    30.80    99.00    99.00
11  9  4 17    15.0 1    32.0     1.50    30.60    99.00    99.00
11  9  4 18    15.0 1    44.0     1.50    29.90    99.00    99.00
11  9  4 19    15.0 1    14.0     0.50    28.60    99.00    99.00
11  9  4 20    15.0 1   294.0     4.10    26.90    99.00    99.00
11  9  4 21    15.0 1   281.0     5.10    22.30    99.00    99.00
11  9  4 22    15.0 1   285.0     5.10    20.50    99.00    99.00
11  9  4 23    15.0 1   287.0     4.10    19.30    99.00    99.00
11  9  4 24    15.0 1   317.0     3.10    18.40    99.00    99.00
11  9  5  1    15.0 1   334.0     3.10    17.80    99.00    99.00
11  9  5  2    15.0 1   325.0     2.60    17.50    99.00    99.00
11  9  5  3    15.0 1   298.0     2.10    17.30    99.00    99.00
11  9  5  4    15.0 1   317.0     1.00    17.10    99.00    99.00
11  9  5  5    15.0 1     0.0     0.00    16.80    99.00    99.00
11  9  5  6    15.0 1     0.0     0.00    16.30    99.00    99.00
11  9  5  7    15.0 1    12.0     0.50    16.80    99.00    99.00
11  9  5  8    15.0 1     0.0     0.00    18.50    99.00    99.00
11  9  5  9    15.0 1     0.0     0.00    20.60    99.00    99.00
11  9  5 10    15.0 1     0.0     0.00    22.50    99.00    99.00
11  9  5 11    15.0 1     0.0     0.00    24.30    99.00    99.00
11  9  5 12    15.0 1     0.0     0.00    26.10    99.00    99.00
11  9  5 13    15.0 1   336.0     1.00    27.60    99.00    99.00
11  9  5 14    15.0 1   350.0     1.50    28.50    99.00    99.00
11  9  5 15    15.0 1     0.0     0.00    29.10    99.00    99.00
11  9  5 16    15.0 1    11.0     2.10    29.30    99.00    99.00
11  9  5 17    15.0 1    18.0     1.50    29.10    99.00    99.00
11  9  5 18    15.0 1    41.0     1.50    28.50    99.00    99.00
11  9  5 19    15.0 1    48.0     1.00    27.10    99.00    99.00
11  9  5 20    15.0 1     0.0     0.00    25.80    99.00    99.00
11  9  5 21    15.0 1     0.0     0.00    24.40    99.00    99.00
11  9  5 22    15.0 1   286.0     0.50    23.10    99.00    99.00
11  9  5 23    15.0 1   304.0     1.50    22.10    99.00    99.00
11  9  5 24    15.0 1   314.0     2.60    21.50    99.00    99.00
11  9  6  1    15.0 1   321.0     3.60    20.90    99.00    99.00
11  9  6  2    15.0 1   328.0     3.10    20.00    99.00    99.00
11  9  6  3    15.0 1   340.0     2.60    19.10    99.00    99.00
11  9  6  4    15.0 1   342.0     1.50    18.50    99.00    99.00
11  9  6  5    15.0 1   345.0     1.00    17.90    99.00    99.00
11  9  6  6    15.0 1   340.0     0.50    17.40    99.00    99.00
11  9  6  7    15.0 1   353.0     1.00    17.60    99.00    99.00
11  9  6  8    15.0 1   342.0     0.50    19.10    99.00    99.00
11  9  6  9    15.0 1     0.0     0.00    21.60    99.00    99.00
11  9  6 10    15.0 1     0.0     0.00    24.00    99.00    99.00
11  9  6 11    15.0 1     0.0     0.00    25.90    99.00    99.00
11  9  6 12    15.0 1     0.0     0.00    27.60    99.00    99.00
11  9  6 13    15.0 1     0.0     0.00    29.30    99.00    99.00
11  9  6 14    15.0 1     1.0     1.00    30.50    99.00    99.00
11  9  6 15    15.0 1     6.0     1.50    31.10    99.00    99.00
11  9  6 16    15.0 1    22.0     2.60    31.10    99.00    99.00
11  9  6 17    15.0 1    27.0     2.10    30.60    99.00    99.00
11  9  6 18    15.0 1    34.0     2.10    29.80    99.00    99.00
11  9  6 19    15.0 1     0.0     0.00    28.40    99.00    99.00
11  9  6 20    15.0 1   224.0     0.50    26.60    99.00    99.00
11  9  6 21    15.0 1   245.0     1.00    25.40    99.00    99.00
11  9  6 22    15.0 1   291.0     1.00    24.30    99.00    99.00
11  9  6 23    15.0 1   305.0     1.50    23.10    99.00    99.00
11  9  6 24    15.0 1   324.0     1.00    22.50    99.00    99.00
11  9  7  1    15.0 1   328.0     1.00    21.90    99.00    99.00
```

```
11  9  7  2    15.0 1   307.0     1.50    21.40    99.00    99.00
11  9  7  3    15.0 1   293.0     2.10    20.80    99.00    99.00
11  9  7  4    15.0 1   302.0     2.10    20.10    99.00    99.00
11  9  7  5    15.0 1   315.0     2.10    19.50    99.00    99.00
11  9  7  6    15.0 1   324.0     1.50    18.90    99.00    99.00
11  9  7  7    15.0 1   313.0     1.00    18.90    99.00    99.00
11  9  7  8    15.0 1   313.0     0.50    20.60    99.00    99.00
11  9  7  9    15.0 1     0.0     0.00    23.00    99.00    99.00
11  9  7 10    15.0 1     0.0     0.00    25.80    99.00    99.00
11  9  7 11    15.0 1     0.0     0.00    27.80    99.00    99.00
11  9  7 12    15.0 1     0.0     0.00    29.60    99.00    99.00
11  9  7 13    15.0 1     0.0     0.00    31.10    99.00    99.00
11  9  7 14    15.0 1     5.0     0.50    32.10    99.00    99.00
11  9  7 15    15.0 1    15.0     1.50    32.60    99.00    99.00
11  9  7 16    15.0 1    25.0     2.60    33.00    99.00    99.00
11  9  7 17    15.0 1    16.0     2.10    32.30    99.00    99.00
11  9  7 18    15.0 1    21.0     2.60    31.60    99.00    99.00
11  9  7 19    15.0 1     0.0     0.00    30.30    99.00    99.00
11  9  7 20    15.0 1   259.0     1.50    28.80    99.00    99.00
11  9  7 21    15.0 1   276.0     4.60    26.90    99.00    99.00
11  9  7 22    15.0 1   295.0     3.60    24.50    99.00    99.00
11  9  7 23    15.0 1   298.0     3.10    23.60    99.00    99.00
11  9  7 24    15.0 1   307.0     2.60    23.10    99.00    99.00
11  9  8  1    15.0 1   319.0     2.60    22.60    99.00    99.00
11  9  8  2    15.0 1   319.0     3.60    22.10    99.00    99.00
11  9  8  3    15.0 1   316.0     3.60    21.40    99.00    99.00
11  9  8  4    15.0 1   317.0     2.60    20.60    99.00    99.00
11  9  8  5    15.0 1   320.0     2.10    20.30    99.00    99.00
11  9  8  6    15.0 1   319.0     1.00    19.80    99.00    99.00
11  9  8  7    15.0 1     0.0     0.00    19.90    99.00    99.00
11  9  8  8    15.0 1     0.0     0.00    21.50    99.00    99.00
11  9  8  9    15.0 1     0.0     0.00    23.60    99.00    99.00
11  9  8 10    15.0 1     0.0     0.00    25.40    99.00    99.00
11  9  8 11    15.0 1     0.0     0.00    27.10    99.00    99.00
11  9  8 12    15.0 1     0.0     0.00    28.80    99.00    99.00
11  9  8 13    15.0 1   310.0     0.50    30.00    99.00    99.00
11  9  8 14    15.0 1   345.0     1.00    31.00    99.00    99.00
11  9  8 15    15.0 1     2.0     1.50    31.60    99.00    99.00
11  9  8 16    15.0 1     9.0     2.60    31.60    99.00    99.00
11  9  8 17    15.0 1    22.0     2.60    31.00    99.00    99.00
11  9  8 18    15.0 1    13.0     3.10    30.10    99.00    99.00
11  9  8 19    15.0 1   357.0     2.10    29.00    99.00    99.00
11  9  8 20    15.0 1   300.0     1.50    27.90    99.00    99.00
11  9  8 21    15.0 1   269.0     3.10    26.50    99.00    99.00
11  9  8 22    15.0 1   265.0     3.10    25.10    99.00    99.00
11  9  8 23    15.0 1   292.0     3.10    24.40    99.00    99.00
11  9  8 24    15.0 1   325.0     3.10    23.60    99.00    99.00
11  9  9  1    15.0 1   329.0     3.10    23.00    99.00    99.00
11  9  9  2    15.0 1   329.0     2.10    22.10    99.00    99.00
11  9  9  3    15.0 1   348.0     1.50    21.50    99.00    99.00
11  9  9  4    15.0 1    17.0     0.50    20.90    99.00    99.00
11  9  9  5    15.0 1    54.0     0.50    20.40    99.00    99.00
11  9  9  6    15.0 1    78.0     0.50    19.90    99.00    99.00
11  9  9  7    15.0 1     0.0     0.00    19.90    99.00    99.00
11  9  9  8    15.0 1     0.0     0.00    21.90    99.00    99.00
11  9  9  9    15.0 1     0.0     0.00    23.60    99.00    99.00
11  9  9 10    15.0 1     0.0     0.00    25.10    99.00    99.00
11  9  9 11    15.0 1     0.0     0.00    26.80    99.00    99.00
11  9  9 12    15.0 1     0.0     0.00    28.30    99.00    99.00
11  9  9 13    15.0 1   335.0     0.50    29.60    99.00    99.00
11  9  9 14    15.0 1     0.0     0.00    30.60    99.00    99.00
11  9  9 15    15.0 1    14.0     2.10    31.00    99.00    99.00
11  9  9 16    15.0 1    25.0     2.60    31.10    99.00    99.00
11  9  9 17    15.0 1    11.0     1.50    30.80    99.00    99.00
11  9  9 18    15.0 1     0.0     0.00    30.10    99.00    99.00
11  9  9 19    15.0 1    19.0     1.00    28.60    99.00    99.00
11  9  9 20    15.0 1     0.0     0.00    27.10    99.00    99.00
11  9  9 21    15.0 1     0.0     0.00    25.90    99.00    99.00
11  9  9 22    15.0 1   289.0     0.50    24.80    99.00    99.00
11  9  9 23    15.0 1   233.0     0.50    23.80    99.00    99.00
11  9  9 24    15.0 1   230.0     1.00    23.10    99.00    99.00
11  9 10  1    15.0 1   245.0     2.10    22.60    99.00    99.00
11  9 10  2    15.0 1   249.0     3.10    22.00    99.00    99.00
11  9 10  3    15.0 1   259.0     3.10    21.50    99.00    99.00
11  9 10  4    15.0 1   270.0     2.60    21.30    99.00    99.00
11  9 10  5    15.0 1   260.0     2.10    21.10    99.00    99.00
11  9 10  6    15.0 1   255.0     1.50    20.90    99.00    99.00
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11  9 10  7    15.0 1   246.0     1.00    20.80    99.00    99.00
11  9 10  8    15.0 1   255.0     1.00    23.50    99.00    99.00
11  9 10  9    15.0 1     0.0     0.00    26.10    99.00    99.00
11  9 10 10    15.0 1    97.0     0.50    28.10    99.00    99.00
11  9 10 11    15.0 1    57.0     0.50    30.10    99.00    99.00
11  9 10 12    15.0 1   348.0     0.50    31.90    99.00    99.00
11  9 10 13    15.0 1   211.0     0.50    33.10    99.00    99.00
11  9 10 14    15.0 1   186.0     1.00    33.60    99.00    99.00
11  9 10 15    15.0 1    16.0     1.50    33.50    99.00    99.00
11  9 10 16    15.0 1     8.0     4.60    32.10    99.00    99.00
11  9 10 17    15.0 1     0.0     0.00    30.10    99.00    99.00
11  9 10 18    15.0 1    16.0     4.10    29.00    99.00    99.00
11  9 10 19    15.0 1   293.0     1.00    28.40    99.00    99.00
11  9 10 20    15.0 1   268.0     5.70    24.40    99.00    99.00
11  9 10 21    15.0 1   285.0     3.60    22.60    99.00    99.00
11  9 10 22    15.0 1   304.0     2.60    21.90    99.00    99.00
11  9 10 23    15.0 1   340.0     2.10    21.50    99.00    99.00
11  9 10 24    15.0 1   339.0     3.10    21.00    99.00    99.00
11  9 11  1    15.0 1   349.0     3.60    20.40    99.00    99.00
11  9 11  2    15.0 1   358.0     3.60    19.60    99.00    99.00
11  9 11  3    15.0 1   359.0     3.10    19.00    99.00    99.00
11  9 11  4    15.0 1    13.0     3.10    18.60    99.00    99.00
11  9 11  5    15.0 1    25.0     2.60    18.10    99.00    99.00
11  9 11  6    15.0 1    24.0     2.10    18.00    99.00    99.00
11  9 11  7    15.0 1   359.0     1.50    18.50    99.00    99.00
11  9 11  8    15.0 1   318.0     1.50    20.40    99.00    99.00
11  9 11  9    15.0 1   333.0     1.00    22.60    99.00    99.00
11  9 11 10    15.0 1     0.0     0.00    25.00    99.00    99.00
11  9 11 11    15.0 1     0.0     0.00    26.60    99.00    99.00
11  9 11 12    15.0 1   315.0     0.50    28.10    99.00    99.00
11  9 11 13    15.0 1   306.0     0.50    29.10    99.00    99.00
11  9 11 14    15.0 1   336.0     1.50    29.80    99.00    99.00
11  9 11 15    15.0 1     3.0     2.60    30.00    99.00    99.00
11  9 11 16    15.0 1    13.0     3.60    29.60    99.00    99.00
11  9 11 17    15.0 1    12.0     3.10    28.80    99.00    99.00
11  9 11 18    15.0 1   339.0     3.60    27.80    99.00    99.00
11  9 11 19    15.0 1   283.0     5.10    25.60    99.00    99.00
11  9 11 20    15.0 1   266.0     4.60    22.00    99.00    99.00
11  9 11 21    15.0 1   272.0     4.60    20.60    99.00    99.00
11  9 11 22    15.0 1   268.0     3.60    19.60    99.00    99.00
11  9 11 23    15.0 1   301.0     1.50    19.10    99.00    99.00
11  9 11 24    15.0 1    15.0     1.50    18.90    99.00    99.00
11  9 12  1    15.0 1    10.0     1.50    18.50    99.00    99.00
11  9 12  2    15.0 1   355.0     1.50    17.90    99.00    99.00
11  9 12  3    15.0 1   313.0     1.00    17.50    99.00    99.00
11  9 12  4    15.0 1   286.0     1.00    17.10    99.00    99.00
11  9 12  5    15.0 1     0.0     0.00    17.10    99.00    99.00
11  9 12  6    15.0 1     0.0     0.00    16.80    99.00    99.00
11  9 12  7    15.0 1     0.0     0.00    17.10    99.00    99.00
11  9 12  8    15.0 1     0.0     0.00    19.10    99.00    99.00
11  9 12  9    15.0 1     0.0     0.00    21.00    99.00    99.00
11  9 12 10    15.0 1     0.0     0.00    22.80    99.00    99.00
11  9 12 11    15.0 1     0.0     0.00    24.60    99.00    99.00
11  9 12 12    15.0 1     0.0     0.00    26.10    99.00    99.00
11  9 12 13    15.0 1   303.0     0.50    27.40    99.00    99.00
11  9 12 14    15.0 1   308.0     0.50    28.30    99.00    99.00
11  9 12 15    15.0 1   343.0     1.00    28.90    99.00    99.00
11  9 12 16    15.0 1     0.0     0.00    29.00    99.00    99.00
11  9 12 17    15.0 1    24.0     2.60    28.40    99.00    99.00
11  9 12 18    15.0 1    24.0     3.60    27.30    99.00    99.00
11  9 12 19    15.0 1    33.0     3.10    26.10    99.00    99.00
11  9 12 20    15.0 1   288.0     1.00    24.90    99.00    99.00
11  9 12 21    15.0 1   269.0     4.60    22.50    99.00    99.00
11  9 12 22    15.0 1   270.0     3.60    20.40    99.00    99.00
11  9 12 23    15.0 1   269.0     2.60    19.80    99.00    99.00
11  9 12 24    15.0 1   267.0     0.50    19.60    99.00    99.00
11  9 13  1    15.0 1   220.0     0.50    19.50    99.00    99.00
11  9 13  2    15.0 1     0.0     0.00    19.10    99.00    99.00
11  9 13  3    15.0 1     0.0     0.00    18.50    99.00    99.00
11  9 13  4    15.0 1   187.0     0.50    17.90    99.00    99.00
11  9 13  5    15.0 1   190.0     0.50    17.40    99.00    99.00
11  9 13  6    15.0 1   227.0     0.50    17.00    99.00    99.00
11  9 13  7    15.0 1   285.0     0.50    17.00    99.00    99.00
11  9 13  8    15.0 1   301.0     1.00    19.60    99.00    99.00
11  9 13  9    15.0 1   286.0     1.00    21.60    99.00    99.00
11  9 13 10    15.0 1   294.0     1.00    24.10    99.00    99.00
11  9 13 11    15.0 1     0.0     0.00    26.10    99.00    99.00
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11  9 13 12    15.0 1     0.0     0.00    27.80    99.00    99.00
11  9 13 13    15.0 1   335.0     0.50    29.00    99.00    99.00
11  9 13 14    15.0 1   354.0     1.00    29.80    99.00    99.00
11  9 13 15    15.0 1    10.0     1.50    30.30    99.00    99.00
11  9 13 16    15.0 1    21.0     2.60    30.30    99.00    99.00
11  9 13 17    15.0 1    29.0     2.10    29.90    99.00    99.00
11  9 13 18    15.0 1    23.0     3.10    29.10    99.00    99.00
11  9 13 19    15.0 1    19.0     1.00    27.80    99.00    99.00
11  9 13 20    15.0 1   244.0     4.10    26.10    99.00    99.00
11  9 13 21    15.0 1   266.0     5.10    22.80    99.00    99.00
11  9 13 22    15.0 1   268.0     4.60    21.40    99.00    99.00
11  9 13 23    15.0 1   274.0     3.10    20.80    99.00    99.00
11  9 13 24    15.0 1   247.0     1.00    20.50    99.00    99.00
11  9 14  1    15.0 1   146.0     1.00    20.50    99.00    99.00
11  9 14  2    15.0 1   170.0     1.50    20.40    99.00    99.00
11  9 14  3    15.0 1   200.0     1.00    20.00    99.00    99.00
11  9 14  4    15.0 1   257.0     1.50    19.60    99.00    99.00
11  9 14  5    15.0 1   270.0     1.50    19.10    99.00    99.00
11  9 14  6    15.0 1   271.0     1.50    18.60    99.00    99.00
11  9 14  7    15.0 1   270.0     1.50    18.50    99.00    99.00
11  9 14  8    15.0 1   325.0     1.00    20.40    99.00    99.00
11  9 14  9    15.0 1     0.0     0.00    22.10    99.00    99.00
11  9 14 10    15.0 1   251.0     0.50    23.60    99.00    99.00
11  9 14 11    15.0 1   248.0     0.50    25.50    99.00    99.00
11  9 14 12    15.0 1     0.0     0.00    27.00    99.00    99.00
11  9 14 13    15.0 1     0.0     0.00    28.50    99.00    99.00
11  9 14 14    15.0 1   347.0     0.50    29.40    99.00    99.00
11  9 14 15    15.0 1    11.0     1.00    29.80    99.00    99.00
11  9 14 16    15.0 1    19.0     2.10    29.90    99.00    99.00
11  9 14 17    15.0 1    21.0     2.10    29.50    99.00    99.00
11  9 14 18    15.0 1    19.0     3.10    28.60    99.00    99.00
11  9 14 19    15.0 1   356.0     1.50    27.30    99.00    99.00
11  9 14 20    15.0 1   275.0     3.10    26.00    99.00    99.00
11  9 14 21    15.0 1   267.0     4.60    23.00    99.00    99.00
11  9 14 22    15.0 1   270.0     4.10    21.30    99.00    99.00
11  9 14 23    15.0 1   282.0     2.60    20.80    99.00    99.00
11  9 14 24    15.0 1   280.0     1.50    20.50    99.00    99.00
11  9 15  1    15.0 1   224.0     1.00    20.10    99.00    99.00
11  9 15  2    15.0 1   242.0     1.00    19.80    99.00    99.00
11  9 15  3    15.0 1   281.0     1.50    19.40    99.00    99.00
11  9 15  4    15.0 1   296.0     3.10    18.80    99.00    99.00
11  9 15  5    15.0 1   307.0     3.10    18.10    99.00    99.00
11  9 15  6    15.0 1   311.0     3.10    17.60    99.00    99.00
11  9 15  7    15.0 1   316.0     2.60    17.60    99.00    99.00
11  9 15  8    15.0 1   341.0     1.50    18.60    99.00    99.00
11  9 15  9    15.0 1     0.0     0.00    20.90    99.00    99.00
11  9 15 10    15.0 1     0.0     0.00    22.60    99.00    99.00
11  9 15 11    15.0 1     0.0     0.00    24.80    99.00    99.00
11  9 15 12    15.0 1     0.0     0.00    26.50    99.00    99.00
11  9 15 13    15.0 1     0.0     0.00    27.90    99.00    99.00
11  9 15 14    15.0 1   332.0     1.00    28.80    99.00    99.00
11  9 15 15    15.0 1   348.0     1.50    29.10    99.00    99.00
11  9 15 16    15.0 1    10.0     3.10    29.10    99.00    99.00
11  9 15 17    15.0 1    12.0     3.10    28.10    99.00    99.00
11  9 15 18    15.0 1   352.0     3.60    26.30    99.00    99.00
11  9 15 19    15.0 1   311.0     3.60    24.90    99.00    99.00
11  9 15 20    15.0 1   279.0     4.10    23.10    99.00    99.00
11  9 15 21    15.0 1   278.0     4.10    21.40    99.00    99.00
11  9 15 22    15.0 1   280.0     3.10    20.40    99.00    99.00
11  9 15 23    15.0 1   295.0     2.60    19.60    99.00    99.00
11  9 15 24    15.0 1   310.0     2.60    18.80    99.00    99.00
11  9 16  1    15.0 1   312.0     2.60    18.10    99.00    99.00
11  9 16  2    15.0 1   318.0     2.60    17.50    99.00    99.00
11  9 16  3    15.0 1   318.0     2.10    17.00    99.00    99.00
11  9 16  4    15.0 1   316.0     2.10    16.50    99.00    99.00
11  9 16  5    15.0 1   342.0     2.10    16.10    99.00    99.00
11  9 16  6    15.0 1   354.0     2.10    15.90    99.00    99.00
11  9 16  7    15.0 1   358.0     2.10    16.00    99.00    99.00
11  9 16  8    15.0 1   350.0     1.50    16.80    99.00    99.00
11  9 16  9    15.0 1     0.0     0.00    18.10    99.00    99.00
11  9 16 10    15.0 1     0.0     0.00    19.90    99.00    99.00
11  9 16 11    15.0 1     0.0     0.00    21.60    99.00    99.00
11  9 16 12    15.0 1     0.0     0.00    23.30    99.00    99.00
11  9 16 13    15.0 1   313.0     0.50    24.80    99.00    99.00
11  9 16 14    15.0 1   325.0     1.00    25.90    99.00    99.00
11  9 16 15    15.0 1   331.0     1.50    26.50    99.00    99.00
11  9 16 16    15.0 1   352.0     2.10    26.60    99.00    99.00
```

```
11  9 16 17    15.0 1     0.0     0.00    26.40    99.00    99.00
11  9 16 18    15.0 1    14.0     3.60    25.40    99.00    99.00
11  9 16 19    15.0 1     0.0     0.00    24.10    99.00    99.00
11  9 16 20    15.0 1   290.0     3.10    23.10    99.00    99.00
11  9 16 21    15.0 1   261.0     4.60    20.60    99.00    99.00
11  9 16 22    15.0 1   256.0     4.60    19.00    99.00    99.00
11  9 16 23    15.0 1   267.0     3.60    18.40    99.00    99.00
11  9 16 24    15.0 1   264.0     3.10    18.10    99.00    99.00
11  9 17  1    15.0 1   269.0     2.60    17.90    99.00    99.00
11  9 17  2    15.0 1   303.0     2.60    17.60    99.00    99.00
11  9 17  3    15.0 1   318.0     2.10    17.40    99.00    99.00
11  9 17  4    15.0 1   342.0     1.50    17.00    99.00    99.00
11  9 17  5    15.0 1   340.0     1.00    16.90    99.00    99.00
11  9 17  6    15.0 1   332.0     0.50    16.80    99.00    99.00
11  9 17  7    15.0 1   325.0     1.00    16.60    99.00    99.00
11  9 17  8    15.0 1   350.0     1.00    17.60    99.00    99.00
11  9 17  9    15.0 1     0.0     0.00    19.10    99.00    99.00
11  9 17 10    15.0 1     0.0     0.00    20.90    99.00    99.00
11  9 17 11    15.0 1     0.0     0.00    22.50    99.00    99.00
11  9 17 12    15.0 1     0.0     0.00    23.80    99.00    99.00
11  9 17 13    15.0 1     0.0     0.00    24.90    99.00    99.00
11  9 17 14    15.0 1     0.0     0.00    25.60    99.00    99.00
11  9 17 15    15.0 1   360.0     1.00    26.30    99.00    99.00
11  9 17 16    15.0 1   354.0     2.60    26.60    99.00    99.00
11  9 17 17    15.0 1     5.0     2.10    26.50    99.00    99.00
11  9 17 18    15.0 1    15.0     3.10    26.00    99.00    99.00
11  9 17 19    15.0 1     6.0     2.60    24.90    99.00    99.00
11  9 17 20    15.0 1     0.0     0.00    23.90    99.00    99.00
11  9 17 21    15.0 1   308.0     1.00    22.60    99.00    99.00
11  9 17 22    15.0 1   287.0     1.50    21.60    99.00    99.00
11  9 17 23    15.0 1   307.0     1.50    20.80    99.00    99.00
11  9 17 24    15.0 1   328.0     2.10    20.00    99.00    99.00
11  9 18  1    15.0 1   339.0     2.60    19.10    99.00    99.00
11  9 18  2    15.0 1   330.0     2.10    18.50    99.00    99.00
11  9 18  3    15.0 1   319.0     2.10    17.90    99.00    99.00
11  9 18  4    15.0 1   320.0     2.10    17.30    99.00    99.00
11  9 18  5    15.0 1   327.0     1.50    16.80    99.00    99.00
11  9 18  6    15.0 1   351.0     1.00    16.30    99.00    99.00
11  9 18  7    15.0 1     9.0     0.50    16.10    99.00    99.00
11  9 18  8    15.0 1     0.0     0.00    17.80    99.00    99.00
11  9 18  9    15.0 1     0.0     0.00    19.90    99.00    99.00
11  9 18 10    15.0 1     0.0     0.00    21.60    99.00    99.00
11  9 18 11    15.0 1     0.0     0.00    23.50    99.00    99.00
11  9 18 12    15.0 1     0.0     0.00    25.40    99.00    99.00
11  9 18 13    15.0 1     0.0     0.00    26.80    99.00    99.00
11  9 18 14    15.0 1   346.0     0.50    27.80    99.00    99.00
11  9 18 15    15.0 1    10.0     1.00    28.40    99.00    99.00
11  9 18 16    15.0 1    18.0     1.50    28.60    99.00    99.00
11  9 18 17    15.0 1    28.0     1.50    28.10    99.00    99.00
11  9 18 18    15.0 1    34.0     1.50    27.40    99.00    99.00
11  9 18 19    15.0 1    36.0     1.00    26.10    99.00    99.00
11  9 18 20    15.0 1     0.0     0.00    24.50    99.00    99.00
11  9 18 21    15.0 1     0.0     0.00    23.10    99.00    99.00
11  9 18 22    15.0 1   277.0     1.00    22.10    99.00    99.00
11  9 18 23    15.0 1   308.0     1.50    21.30    99.00    99.00
11  9 18 24    15.0 1   329.0     1.00    20.50    99.00    99.00
11  9 19  1    15.0 1   342.0     0.50    20.00    99.00    99.00
11  9 19  2    15.0 1     0.0     0.00    19.40    99.00    99.00
11  9 19  3    15.0 1   200.0     0.50    18.60    99.00    99.00
11  9 19  4    15.0 1     0.0     0.00    18.10    99.00    99.00
11  9 19  5    15.0 1   295.0     0.50    17.60    99.00    99.00
11  9 19  6    15.0 1   292.0     0.50    17.40    99.00    99.00
11  9 19  7    15.0 1   277.0     0.50    17.30    99.00    99.00
11  9 19  8    15.0 1   322.0     0.50    19.60    99.00    99.00
11  9 19  9    15.0 1     0.0     0.00    21.60    99.00    99.00
11  9 19 10    15.0 1     0.0     0.00    24.30    99.00    99.00
11  9 19 11    15.0 1     0.0     0.00    26.10    99.00    99.00
11  9 19 12    15.0 1     0.0     0.00    27.90    99.00    99.00
11  9 19 13    15.0 1     0.0     0.00    29.40    99.00    99.00
11  9 19 14    15.0 1     0.0     0.00    30.50    99.00    99.00
11  9 19 15    15.0 1    45.0     0.50    31.10    99.00    99.00
11  9 19 16    15.0 1    44.0     1.50    31.10    99.00    99.00
11  9 19 17    15.0 1    49.0     1.50    30.80    99.00    99.00
11  9 19 18    15.0 1    46.0     1.50    29.80    99.00    99.00
11  9 19 19    15.0 1     0.0     0.00    28.30    99.00    99.00
11  9 19 20    15.0 1   267.0     2.10    26.90    99.00    99.00
11  9 19 21    15.0 1   290.0     4.60    24.90    99.00    99.00
```

11	9	19	22	15.0	1	295.0	3.60	22.80	99.00	99.00
11	9	19	23	15.0	1	311.0	3.10	21.90	99.00	99.00
11	9	19	24	15.0	1	333.0	2.60	21.10	99.00	99.00
11	9	20	1	15.0	1	10.0	2.60	20.50	99.00	99.00
11	9	20	2	15.0	1	7.0	2.10	19.90	99.00	99.00
11	9	20	3	15.0	1	10.0	1.00	19.40	99.00	99.00
11	9	20	4	15.0	1	250.0	0.50	19.30	99.00	99.00
11	9	20	5	15.0	1	209.0	0.50	19.00	99.00	99.00
11	9	20	6	15.0	1	171.0	0.50	18.60	99.00	99.00
11	9	20	7	15.0	1	139.0	0.50	18.30	99.00	99.00
11	9	20	8	15.0	1	0.0	0.00	20.80	99.00	99.00
11	9	20	9	15.0	1	0.0	0.00	23.00	99.00	99.00
11	9	20	10	15.0	1	0.0	0.00	24.80	99.00	99.00
11	9	20	11	15.0	1	0.0	0.00	26.40	99.00	99.00
11	9	20	12	15.0	1	0.0	0.00	28.10	99.00	99.00
11	9	20	13	15.0	1	0.0	0.00	29.50	99.00	99.00
11	9	20	14	15.0	1	329.0	0.50	30.50	99.00	99.00
11	9	20	15	15.0	1	0.0	0.00	31.10	99.00	99.00
11	9	20	16	15.0	1	23.0	2.10	31.10	99.00	99.00
11	9	20	17	15.0	1	22.0	2.10	30.80	99.00	99.00
11	9	20	18	15.0	1	25.0	2.10	29.80	99.00	99.00
11	9	20	19	15.0	1	0.0	0.00	28.30	99.00	99.00
11	9	20	20	15.0	1	251.0	0.50	26.60	99.00	99.00
11	9	20	21	15.0	1	267.0	2.10	25.60	99.00	99.00
11	9	20	22	15.0	1	287.0	3.10	24.50	99.00	99.00
11	9	20	23	15.0	1	317.0	2.60	23.30	99.00	99.00
11	9	20	24	15.0	1	340.0	2.60	22.50	99.00	99.00
11	9	21	1	15.0	1	336.0	1.50	21.80	99.00	99.00
11	9	21	2	15.0	1	349.0	1.00	21.10	99.00	99.00
11	9	21	3	15.0	1	7.0	0.50	20.80	99.00	99.00
11	9	21	4	15.0	1	0.0	0.00	20.40	99.00	99.00
11	9	21	5	15.0	1	159.0	0.50	19.60	99.00	99.00
11	9	21	6	15.0	1	182.0	0.50	19.10	99.00	99.00
11	9	21	7	15.0	1	197.0	0.50	19.00	99.00	99.00
11	9	21	8	15.0	1	233.0	0.50	21.50	99.00	99.00
11	9	21	9	15.0	1	0.0	0.00	23.60	99.00	99.00
11	9	21	10	15.0	1	0.0	0.00	25.90	99.00	99.00
11	9	21	11	15.0	1	0.0	0.00	27.60	99.00	99.00
11	9	21	12	15.0	1	0.0	0.00	29.30	99.00	99.00
11	9	21	13	15.0	1	0.0	0.00	30.80	99.00	99.00
11	9	21	14	15.0	1	0.0	0.00	31.90	99.00	99.00
11	9	21	15	15.0	1	353.0	0.50	32.40	99.00	99.00
11	9	21	16	15.0	1	8.0	1.50	32.50	99.00	99.00
11	9	21	17	15.0	1	8.0	2.10	32.10	99.00	99.00
11	9	21	18	15.0	1	22.0	2.10	30.60	99.00	99.00
11	9	21	19	15.0	1	2.0	1.00	29.00	99.00	99.00
11	9	21	20	15.0	1	292.0	0.50	27.10	99.00	99.00
11	9	21	21	15.0	1	285.0	2.10	25.90	99.00	99.00
11	9	21	22	15.0	1	295.0	3.60	24.60	99.00	99.00
11	9	21	23	15.0	1	313.0	3.10	23.60	99.00	99.00
11	9	21	24	15.0	1	339.0	2.60	22.90	99.00	99.00
11	9	22	1	15.0	1	20.0	2.10	22.10	99.00	99.00
11	9	22	2	15.0	1	22.0	1.50	21.60	99.00	99.00
11	9	22	3	15.0	1	14.0	0.50	21.30	99.00	99.00
11	9	22	4	15.0	1	255.0	0.50	20.90	99.00	99.00
11	9	22	5	15.0	1	231.0	0.50	20.30	99.00	99.00
11	9	22	6	15.0	1	235.0	1.00	19.90	99.00	99.00
11	9	22	7	15.0	1	216.0	1.00	19.60	99.00	99.00
11	9	22	8	15.0	1	291.0	1.50	21.30	99.00	99.00
11	9	22	9	15.0	1	264.0	1.00	23.10	99.00	99.00
11	9	22	10	15.0	1	252.0	1.00	25.60	99.00	99.00
11	9	22	11	15.0	1	271.0	0.50	27.60	99.00	99.00
11	9	22	12	15.0	1	0.0	0.00	29.40	99.00	99.00
11	9	22	13	15.0	1	0.0	0.00	30.90	99.00	99.00
11	9	22	14	15.0	1	0.0	0.00	31.80	99.00	99.00
11	9	22	15	15.0	1	12.0	2.10	32.10	99.00	99.00
11	9	22	16	15.0	1	20.0	3.10	31.50	99.00	99.00
11	9	22	17	15.0	1	16.0	3.10	30.50	99.00	99.00
11	9	22	18	15.0	1	21.0	3.10	29.40	99.00	99.00
11	9	22	19	15.0	1	341.0	1.50	28.30	99.00	99.00
11	9	22	20	15.0	1	280.0	2.10	27.00	99.00	99.00
11	9	22	21	15.0	1	258.0	3.60	26.10	99.00	99.00
11	9	22	22	15.0	1	270.0	3.10	25.10	99.00	99.00
11	9	22	23	15.0	1	287.0	0.50	24.10	99.00	99.00
11	9	22	24	15.0	1	0.0	0.00	23.30	99.00	99.00
11	9	23	1	15.0	1	0.0	0.00	22.60	99.00	99.00
11	9	23	2	15.0	1	295.0	0.50	22.10	99.00	99.00

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11  9 23  3    15.0 1   288.0     1.00    21.60    99.00    99.00
11  9 23  4    15.0 1   278.0     1.50    21.30    99.00    99.00
11  9 23  5    15.0 1   294.0     2.10    20.60    99.00    99.00
11  9 23  6    15.0 1   276.0     2.60    20.10    99.00    99.00
11  9 23  7    15.0 1   293.0     3.10    19.60    99.00    99.00
11  9 23  8    15.0 1   286.0     2.60    21.80    99.00    99.00
11  9 23  9    15.0 1   303.0     1.50    23.00    99.00    99.00
11  9 23 10    15.0 1     0.0     0.00    24.30    99.00    99.00
11  9 23 11    15.0 1     0.0     0.00    25.40    99.00    99.00
11  9 23 12    15.0 1     0.0     0.00    27.30    99.00    99.00
11  9 23 13    15.0 1   346.0     0.50    28.50    99.00    99.00
11  9 23 14    15.0 1    22.0     1.50    29.10    99.00    99.00
11  9 23 15    15.0 1     6.0     1.50    29.50    99.00    99.00
11  9 23 16    15.0 1    20.0     2.10    29.50    99.00    99.00
11  9 23 17    15.0 1    25.0     2.60    28.80    99.00    99.00
11  9 23 18    15.0 1    11.0     2.60    28.00    99.00    99.00
11  9 23 19    15.0 1   344.0     1.50    26.90    99.00    99.00
11  9 23 20    15.0 1   268.0     3.10    25.80    99.00    99.00
11  9 23 21    15.0 1   276.0     4.10    25.30    99.00    99.00
11  9 23 22    15.0 1   286.0     4.10    23.80    99.00    99.00
11  9 23 23    15.0 1   304.0     3.10    22.60    99.00    99.00
11  9 23 24    15.0 1   338.0     3.10    22.00    99.00    99.00
11  9 24  1    15.0 1   351.0     3.60    21.30    99.00    99.00
11  9 24  2    15.0 1   352.0     3.60    20.80    99.00    99.00
11  9 24  3    15.0 1     1.0     3.10    20.30    99.00    99.00
11  9 24  4    15.0 1     0.0     0.00    19.90    99.00    99.00
11  9 24  5    15.0 1     8.0     2.10    19.60    99.00    99.00
11  9 24  6    15.0 1    21.0     1.50    19.30    99.00    99.00
11  9 24  7    15.0 1    17.0     1.00    19.10    99.00    99.00
11  9 24  8    15.0 1   300.0     0.50    21.10    99.00    99.00
11  9 24  9    15.0 1   281.0     0.50    23.40    99.00    99.00
11  9 24 10    15.0 1     0.0     0.00    25.40    99.00    99.00
11  9 24 11    15.0 1     0.0     0.00    27.10    99.00    99.00
11  9 24 12    15.0 1     0.0     0.00    28.60    99.00    99.00
11  9 24 13    15.0 1     0.0     0.00    29.60    99.00    99.00
11  9 24 14    15.0 1     0.0     0.00    30.60    99.00    99.00
11  9 24 15    15.0 1   354.0     1.00    31.10    99.00    99.00
11  9 24 16    15.0 1     0.0     0.00    31.10    99.00    99.00
11  9 24 17    15.0 1   318.0     2.60    30.80    99.00    99.00
11  9 24 18    15.0 1   281.0     5.10    27.50    99.00    99.00
11  9 24 19    15.0 1   266.0     4.10    23.60    99.00    99.00
11  9 24 20    15.0 1   266.0     4.60    21.60    99.00    99.00
11  9 24 21    15.0 1   268.0     4.60    20.30    99.00    99.00
11  9 24 22    15.0 1   291.0     3.60    19.10    99.00    99.00
11  9 24 23    15.0 1     6.0     3.10    18.60    99.00    99.00
11  9 24 24    15.0 1   356.0     2.10    18.10    99.00    99.00
11  9 25  1    15.0 1   287.0     2.10    17.60    99.00    99.00
11  9 25  2    15.0 1   280.0     3.10    16.80    99.00    99.00
11  9 25  3    15.0 1   277.0     2.60    16.30    99.00    99.00
11  9 25  4    15.0 1   294.0     2.10    16.10    99.00    99.00
11  9 25  5    15.0 1   292.0     1.50    16.40    99.00    99.00
11  9 25  6    15.0 1   287.0     1.00    16.60    99.00    99.00
11  9 25  7    15.0 1   256.0     0.50    16.90    99.00    99.00
11  9 25  8    15.0 1   269.0     1.00    17.10    99.00    99.00
11  9 25  9    15.0 1   299.0     1.00    17.60    99.00    99.00
11  9 25 10    15.0 1     0.0     0.00    18.30    99.00    99.00
11  9 25 11    15.0 1     0.0     0.00    19.90    99.00    99.00
11  9 25 12    15.0 1     0.0     0.00    21.80    99.00    99.00
11  9 25 13    15.0 1     0.0     0.00    23.40    99.00    99.00
11  9 25 14    15.0 1   325.0     0.50    24.50    99.00    99.00
11  9 25 15    15.0 1   351.0     1.00    25.30    99.00    99.00
11  9 25 16    15.0 1     2.0     2.10    25.50    99.00    99.00
11  9 25 17    15.0 1    11.0     2.10    25.50    99.00    99.00
11  9 25 18    15.0 1    18.0     3.10    24.80    99.00    99.00
11  9 25 19    15.0 1     8.0     3.10    23.80    99.00    99.00
11  9 25 20    15.0 1   350.0     2.60    22.80    99.00    99.00
11  9 25 21    15.0 1   327.0     3.10    21.60    99.00    99.00
11  9 25 22    15.0 1   321.0     3.10    20.50    99.00    99.00
11  9 25 23    15.0 1   308.0     3.60    19.30    99.00    99.00
11  9 25 24    15.0 1   318.0     3.60    18.30    99.00    99.00
11  9 26  1    15.0 1   327.0     3.10    17.60    99.00    99.00
11  9 26  2    15.0 1   342.0     2.60    17.00    99.00    99.00
11  9 26  3    15.0 1   345.0     2.10    16.50    99.00    99.00
11  9 26  4    15.0 1   341.0     1.00    16.00    99.00    99.00
11  9 26  5    15.0 1   308.0     0.50    15.50    99.00    99.00
11  9 26  6    15.0 1   264.0     0.50    15.10    99.00    99.00
11  9 26  7    15.0 1     0.0     0.00    14.90    99.00    99.00
```

```
11  9 26  8    15.0 1     0.0     0.00    16.10    99.00    99.00
11  9 26  9    15.0 1    13.0     0.50    17.30    99.00    99.00
11  9 26 10    15.0 1     0.0     0.00    18.50    99.00    99.00
11  9 26 11    15.0 1     0.0     0.00    20.10    99.00    99.00
11  9 26 12    15.0 1     0.0     0.00    21.60    99.00    99.00
11  9 26 13    15.0 1   323.0     0.50    23.00    99.00    99.00
11  9 26 14    15.0 1   331.0     1.00    24.00    99.00    99.00
11  9 26 15    15.0 1   345.0     1.50    24.60    99.00    99.00
11  9 26 16    15.0 1   354.0     2.10    24.80    99.00    99.00
11  9 26 17    15.0 1   360.0     1.50    24.80    99.00    99.00
11  9 26 18    15.0 1     7.0     1.00    24.10    99.00    99.00
11  9 26 19    15.0 1    13.0     0.50    22.90    99.00    99.00
11  9 26 20    15.0 1     0.0     0.00    21.50    99.00    99.00
11  9 26 21    15.0 1   119.0     0.50    20.10    99.00    99.00
11  9 26 22    15.0 1   102.0     0.50    19.10    99.00    99.00
11  9 26 23    15.0 1   104.0     0.50    18.30    99.00    99.00
11  9 26 24    15.0 1     0.0     0.00    17.60    99.00    99.00
11  9 27  1    15.0 1     0.0     0.00    17.10    99.00    99.00
11  9 27  2    15.0 1     0.0     0.00    16.60    99.00    99.00
11  9 27  3    15.0 1   317.0     0.50    16.40    99.00    99.00
11  9 27  4    15.0 1   333.0     0.50    16.10    99.00    99.00
11  9 27  5    15.0 1   350.0     0.50    15.80    99.00    99.00
11  9 27  6    15.0 1     0.0     0.00    15.40    99.00    99.00
11  9 27  7    15.0 1     0.0     0.00    15.00    99.00    99.00
11  9 27  8    15.0 1     0.0     0.00    16.60    99.00    99.00
11  9 27  9    15.0 1     0.0     0.00    18.60    99.00    99.00
11  9 27 10    15.0 1     0.0     0.00    21.00    99.00    99.00
11  9 27 11    15.0 1     0.0     0.00    22.90    99.00    99.00
11  9 27 12    15.0 1     0.0     0.00    24.40    99.00    99.00
11  9 27 13    15.0 1   354.0     0.50    25.50    99.00    99.00
11  9 27 14    15.0 1   350.0     1.50    26.30    99.00    99.00
11  9 27 15    15.0 1   358.0     2.60    26.60    99.00    99.00
11  9 27 16    15.0 1    13.0     2.60    29.40    99.00    99.00
11  9 27 17    15.0 1    22.0     3.10    28.60    99.00    99.00
11  9 27 18    15.0 1    21.0     3.10    27.60    99.00    99.00
11  9 27 19    15.0 1   354.0     1.00    26.40    99.00    99.00
11  9 27 20    15.0 1   243.0     2.10    25.10    99.00    99.00
11  9 27 21    15.0 1   248.0     3.10    24.30    99.00    99.00
11  9 27 22    15.0 1   291.0     1.50    23.60    99.00    99.00
11  9 27 23    15.0 1     1.0     1.00    22.50    99.00    99.00
11  9 27 24    15.0 1    28.0     1.00    21.60    99.00    99.00
11  9 28  1    15.0 1    74.0     0.50    21.00    99.00    99.00
11  9 28  2    15.0 1   228.0     0.50    20.40    99.00    99.00
11  9 28  3    15.0 1   262.0     1.50    20.00    99.00    99.00
11  9 28  4    15.0 1   281.0     2.10    20.00    99.00    99.00
11  9 28  5    15.0 1   293.0     2.10    19.80    99.00    99.00
11  9 28  6    15.0 1   297.0     1.50    19.60    99.00    99.00
11  9 28  7    15.0 1   305.0     0.50    19.30    99.00    99.00
11  9 28  8    15.0 1     0.0     0.00    19.60    99.00    99.00
11  9 28  9    15.0 1   276.0     0.50    22.00    99.00    99.00
11  9 28 10    15.0 1   264.0     0.50    24.10    99.00    99.00
11  9 28 11    15.0 1     0.0     0.00    26.30    99.00    99.00
11  9 28 12    15.0 1     0.0     0.00    28.50    99.00    99.00
11  9 28 13    15.0 1     0.0     0.00    29.80    99.00    99.00
11  9 28 14    15.0 1     0.0     0.00    30.50    99.00    99.00
11  9 28 15    15.0 1    19.0     1.00    30.80    99.00    99.00
11  9 28 16    15.0 1    26.0     2.10    30.50    99.00    99.00
11  9 28 17    15.0 1    28.0     3.10    29.60    99.00    99.00
11  9 28 18    15.0 1     9.0     1.50    28.40    99.00    99.00
11  9 28 19    15.0 1   266.0     2.10    27.00    99.00    99.00
11  9 28 20    15.0 1   269.0     2.60    26.40    99.00    99.00
11  9 28 21    15.0 1   271.0     3.60    25.80    99.00    99.00
11  9 28 22    15.0 1   288.0     2.60    24.50    99.00    99.00
11  9 28 23    15.0 1     6.0     1.00    23.50    99.00    99.00
11  9 28 24    15.0 1    53.0     1.50    22.60    99.00    99.00
11  9 29  1    15.0 1    63.0     1.50    21.90    99.00    99.00
11  9 29  2    15.0 1    58.0     1.00    21.10    99.00    99.00
11  9 29  3    15.0 1    47.0     1.00    20.60    99.00    99.00
11  9 29  4    15.0 1    59.0     1.00    20.10    99.00    99.00
11  9 29  5    15.0 1    67.0     0.50    19.80    99.00    99.00
11  9 29  6    15.0 1    96.0     0.50    19.50    99.00    99.00
11  9 29  7    15.0 1    99.0     0.50    19.10    99.00    99.00
11  9 29  8    15.0 1     0.0     0.00    20.10    99.00    99.00
11  9 29  9    15.0 1     0.0     0.00    23.40    99.00    99.00
11  9 29 10    15.0 1     0.0     0.00    25.80    99.00    99.00
11  9 29 11    15.0 1     0.0     0.00    28.00    99.00    99.00
11  9 29 12    15.0 1     0.0     0.00    30.10    99.00    99.00
```

```
11  9 29 13    15.0 1     4.0     0.50    31.30    99.00    99.00
11  9 29 14    15.0 1    19.0     1.00    32.10    99.00    99.00
11  9 29 15    15.0 1    26.0     1.50    32.60    99.00    99.00
11  9 29 16    15.0 1    26.0     2.10    32.10    99.00    99.00
11  9 29 17    15.0 1    28.0     3.10    31.30    99.00    99.00
11  9 29 18    15.0 1     0.0     0.00    30.10    99.00    99.00
11  9 29 19    15.0 1   296.0     4.60    29.10    99.00    99.00
11  9 29 20    15.0 1   289.0     4.60    25.10    99.00    99.00
11  9 29 21    15.0 1   295.0     4.10    23.10    99.00    99.00
11  9 29 22    15.0 1   312.0     3.60    22.30    99.00    99.00
11  9 29 23    15.0 1   351.0     3.60    21.80    99.00    99.00
11  9 29 24    15.0 1    12.0     4.60    21.10    99.00    99.00
11  9 30  1    15.0 1    22.0     4.10    20.50    99.00    99.00
11  9 30  2    15.0 1    25.0     4.10    20.00    99.00    99.00
11  9 30  3    15.0 1    33.0     3.60    19.60    99.00    99.00
11  9 30  4    15.0 1    35.0     3.60    19.30    99.00    99.00
11  9 30  5    15.0 1    39.0     3.10    18.90    99.00    99.00
11  9 30  6    15.0 1    43.0     3.10    18.60    99.00    99.00
11  9 30  7    15.0 1    36.0     2.10    18.40    99.00    99.00
11  9 30  8    15.0 1    16.0     1.50    20.10    99.00    99.00
11  9 30  9    15.0 1   345.0     0.50    22.00    99.00    99.00
11  9 30 10    15.0 1     0.0     0.00    24.10    99.00    99.00
11  9 30 11    15.0 1     0.0     0.00    26.30    99.00    99.00
11  9 30 12    15.0 1   356.0     0.50    27.90    99.00    99.00
11  9 30 13    15.0 1   343.0     1.00    29.10    99.00    99.00
11  9 30 14    15.0 1   336.0     1.50    30.10    99.00    99.00
11  9 30 15    15.0 1   352.0     2.60    30.60    99.00    99.00
11  9 30 16    15.0 1   350.0     2.60    30.30    99.00    99.00
11  9 30 17    15.0 1   328.0     4.10    29.10    99.00    99.00
11  9 30 18    15.0 1   324.0     4.60    26.50    99.00    99.00
11  9 30 19    15.0 1   298.0     4.60    23.60    99.00    99.00
11  9 30 20    15.0 1   297.0     4.60    21.80    99.00    99.00
11  9 30 21    15.0 1   313.0     4.10    20.40    99.00    99.00
11  9 30 22    15.0 1   320.0     3.60    19.50    99.00    99.00
11  9 30 23    15.0 1   349.0     3.10    18.80    99.00    99.00
11  9 30 24    15.0 1     0.0     0.00    18.10    99.00    99.00
11 10  1  1    15.0 1   351.0     3.60    17.40    99.00    99.00
11 10  1  2    15.0 1   345.0     4.10    16.60    99.00    99.00
11 10  1  3    15.0 1   326.0     3.60    16.30    99.00    99.00
11 10  1  4    15.0 1   318.0     3.10    15.90    99.00    99.00
11 10  1  5    15.0 1   326.0     2.60    15.60    99.00    99.00
11 10  1  6    15.0 1   326.0     2.60    15.60    99.00    99.00
11 10  1  7    15.0 1   340.0     1.50    15.60    99.00    99.00
11 10  1  8    15.0 1   322.0     1.50    17.10    99.00    99.00
11 10  1  9    15.0 1   324.0     0.50    18.90    99.00    99.00
11 10  1 10    15.0 1     0.0     0.00    20.50    99.00    99.00
11 10  1 11    15.0 1     0.0     0.00    22.10    99.00    99.00
11 10  1 12    15.0 1     0.0     0.00    23.60    99.00    99.00
11 10  1 13    15.0 1     0.0     0.00    24.90    99.00    99.00
11 10  1 14    15.0 1   318.0     0.50    25.90    99.00    99.00
11 10  1 15    15.0 1   342.0     1.00    26.40    99.00    99.00
11 10  1 16    15.0 1     7.0     1.50    26.50    99.00    99.00
11 10  1 17    15.0 1    27.0     2.10    26.10    99.00    99.00
11 10  1 18    15.0 1    35.0     3.10    25.30    99.00    99.00
11 10  1 19    15.0 1    26.0     2.10    24.30    99.00    99.00
11 10  1 20    15.0 1   282.0     2.60    23.50    99.00    99.00
11 10  1 21    15.0 1   283.0     4.60    21.00    99.00    99.00
11 10  1 22    15.0 1   278.0     4.60    19.10    99.00    99.00
11 10  1 23    15.0 1   293.0     4.10    18.40    99.00    99.00
11 10  1 24    15.0 1   315.0     4.10    17.60    99.00    99.00
11 10  2  1    15.0 1   317.0     3.10    17.10    99.00    99.00
11 10  2  2    15.0 1   327.0     2.60    16.90    99.00    99.00
11 10  2  3    15.0 1   336.0     2.10    16.80    99.00    99.00
11 10  2  4    15.0 1   345.0     1.50    16.50    99.00    99.00
11 10  2  5    15.0 1   342.0     1.00    16.30    99.00    99.00
11 10  2  6    15.0 1     8.0     0.50    16.00    99.00    99.00
11 10  2  7    15.0 1     0.0     0.00    15.80    99.00    99.00
11 10  2  8    15.0 1   359.0     0.50    16.90    99.00    99.00
11 10  2  9    15.0 1     0.0     0.00    18.30    99.00    99.00
11 10  2 10    15.0 1     0.0     0.00    19.80    99.00    99.00
11 10  2 11    15.0 1     0.0     0.00    21.40    99.00    99.00
11 10  2 12    15.0 1     0.0     0.00    22.80    99.00    99.00
11 10  2 13    15.0 1     0.0     0.00    24.10    99.00    99.00
11 10  2 14    15.0 1     0.0     0.00    25.10    99.00    99.00
11 10  2 15    15.0 1   355.0     1.00    25.80    99.00    99.00
11 10  2 16    15.0 1    12.0     1.50    25.60    99.00    99.00
11 10  2 17    15.0 1    26.0     2.10    25.30    99.00    99.00
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11 10  2 18    15.0 1    42.0     3.10    24.30    99.00    99.00
11 10  2 19    15.0 1    25.0     1.50    23.10    99.00    99.00
11 10  2 20    15.0 1   284.0     4.10    21.40    99.00    99.00
11 10  2 21    15.0 1   266.0     4.60    18.30    99.00    99.00
11 10  2 22    15.0 1   274.0     4.10    16.90    99.00    99.00
11 10  2 23    15.0 1   272.0     3.60    16.10    99.00    99.00
11 10  2 24    15.0 1   278.0     2.60    15.50    99.00    99.00
11 10  3  1    15.0 1   296.0     1.50    15.10    99.00    99.00
11 10  3  2    15.0 1   329.0     0.50    15.00    99.00    99.00
11 10  3  3    15.0 1    62.0     0.50    14.60    99.00    99.00
11 10  3  4    15.0 1     0.0     0.00    14.50    99.00    99.00
11 10  3  5    15.0 1     0.0     0.00    14.10    99.00    99.00
11 10  3  6    15.0 1   166.0     0.50    13.50    99.00    99.00
11 10  3  7    15.0 1   169.0     0.50    13.10    99.00    99.00
11 10  3  8    15.0 1     0.0     0.00    14.80    99.00    99.00
11 10  3  9    15.0 1     0.0     0.00    17.00    99.00    99.00
11 10  3 10    15.0 1     0.0     0.00    18.80    99.00    99.00
11 10  3 11    15.0 1     0.0     0.00    20.50    99.00    99.00
11 10  3 12    15.0 1     0.0     0.00    22.00    99.00    99.00
11 10  3 13    15.0 1     0.0     0.00    23.10    99.00    99.00
11 10  3 14    15.0 1   326.0     1.00    23.60    99.00    99.00
11 10  3 15    15.0 1   344.0     1.50    23.50    99.00    99.00
11 10  3 16    15.0 1   335.0     2.60    23.10    99.00    99.00
11 10  3 17    15.0 1   323.0     3.60    21.80    99.00    99.00
11 10  3 18    15.0 1   317.0     4.10    20.10    99.00    99.00
11 10  3 19    15.0 1   315.0     3.60    19.00    99.00    99.00
11 10  3 20    15.0 1   322.0     3.10    18.40    99.00    99.00
11 10  3 21    15.0 1   329.0     2.60    18.10    99.00    99.00
11 10  3 22    15.0 1   342.0     2.60    17.60    99.00    99.00
11 10  3 23    15.0 1   354.0     2.60    17.00    99.00    99.00
11 10  3 24    15.0 1   357.0     2.10    16.50    99.00    99.00
11 10  4  1    15.0 1     0.0     0.00    16.30    99.00    99.00
11 10  4  2    15.0 1   313.0     1.00    16.10    99.00    99.00
11 10  4  3    15.0 1   290.0     2.60    16.10    99.00    99.00
11 10  4  4    15.0 1   286.0     3.60    15.90    99.00    99.00
11 10  4  5    15.0 1   288.0     4.60    15.30    99.00    99.00
11 10  4  6    15.0 1   277.0     4.10    14.30    99.00    99.00
11 10  4  7    15.0 1   274.0     4.10    13.80    99.00    99.00
11 10  4  8    15.0 1   279.0     4.10    14.30    99.00    99.00
11 10  4  9    15.0 1   304.0     2.10    15.10    99.00    99.00
11 10  4 10    15.0 1     8.0     0.50    16.10    99.00    99.00
11 10  4 11    15.0 1     0.0     0.00    17.60    99.00    99.00
11 10  4 12    15.0 1     0.0     0.00    19.10    99.00    99.00
11 10  4 13    15.0 1     0.0     0.00    20.30    99.00    99.00
11 10  4 14    15.0 1     0.0     0.00    21.10    99.00    99.00
11 10  4 15    15.0 1     0.0     0.00    21.60    99.00    99.00
11 10  4 16    15.0 1   312.0     1.00    21.90    99.00    99.00
11 10  4 17    15.0 1   302.0     1.50    21.80    99.00    99.00
11 10  4 18    15.0 1   282.0     3.60    20.50    99.00    99.00
11 10  4 19    15.0 1   268.0     4.10    18.10    99.00    99.00
11 10  4 20    15.0 1   271.0     3.10    16.60    99.00    99.00
11 10  4 21    15.0 1   269.0     2.60    16.10    99.00    99.00
11 10  4 22    15.0 1   262.0     0.50    16.00    99.00    99.00
11 10  4 23    15.0 1    97.0     1.00    15.50    99.00    99.00
11 10  4 24    15.0 1   107.0     3.10    15.10    99.00    99.00
11 10  5  1    15.0 1   118.0     3.60    14.10    99.00    99.00
11 10  5  2    15.0 1   125.0     3.60    14.00    99.00    99.00
11 10  5  3    15.0 1   134.0     3.10    14.00    99.00    99.00
11 10  5  4    15.0 1   138.0     3.60    13.60    99.00    99.00
11 10  5  5    15.0 1   141.0     4.60    13.10    99.00    99.00
11 10  5  6    15.0 1   130.0     5.70    13.10    99.00    99.00
11 10  5  7    15.0 1   142.0     5.10    13.00    99.00    99.00
11 10  5  8    15.0 1   144.0     4.60    13.10    99.00    99.00
11 10  5  9    15.0 1   144.0     3.10    14.60    99.00    99.00
11 10  5 10    15.0 1   273.0     2.60    19.10    99.00    99.00
11 10  5 11    15.0 1   278.0     4.60    20.60    99.00    99.00
11 10  5 12    15.0 1   271.0     7.70    21.90    99.00    99.00
11 10  5 13    15.0 1   282.0     6.70    22.30    99.00    99.00
11 10  5 14    15.0 1   280.0     6.70    22.40    99.00    99.00
11 10  5 15    15.0 1   281.0     6.20    22.10    99.00    99.00
11 10  5 16    15.0 1   261.0     4.10    21.40    99.00    99.00
11 10  5 17    15.0 1   264.0     5.70    19.80    99.00    99.00
11 10  5 18    15.0 1   263.0     6.20    17.10    99.00    99.00
11 10  5 19    15.0 1   258.0     5.70    15.30    99.00    99.00
11 10  5 20    15.0 1   275.0     4.60    14.30    99.00    99.00
11 10  5 21    15.0 1   280.0     4.10    13.60    99.00    99.00
11 10  5 22    15.0 1   295.0     3.60    13.00    99.00    99.00
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```
11 10  5 23    15.0 1   303.0     3.60    12.40    99.00    99.00
11 10  5 24    15.0 1   304.0     3.60    11.80    99.00    99.00
11 10  6  1    15.0 1   300.0     3.60    11.30    99.00    99.00
11 10  6  2    15.0 1   301.0     3.60    10.90    99.00    99.00
11 10  6  3    15.0 1   305.0     3.60    10.50    99.00    99.00
11 10  6  4    15.0 1   311.0     3.60    10.10    99.00    99.00
11 10  6  5    15.0 1   310.0     3.60     9.80    99.00    99.00
11 10  6  6    15.0 1   312.0     3.60     9.40    99.00    99.00
11 10  6  7    15.0 1   311.0     3.10     9.30    99.00    99.00
11 10  6  8    15.0 1   335.0     3.60    11.10    99.00    99.00
11 10  6  9    15.0 1   331.0     2.60    13.00    99.00    99.00
11 10  6 10    15.0 1   334.0     1.50    14.40    99.00    99.00
11 10  6 11    15.0 1   316.0     1.50    15.60    99.00    99.00
11 10  6 12    15.0 1   323.0     1.50    16.80    99.00    99.00
11 10  6 13    15.0 1   324.0     2.10    17.60    99.00    99.00
11 10  6 14    15.0 1   322.0     2.60    18.40    99.00    99.00
11 10  6 15    15.0 1   332.0     3.60    18.60    99.00    99.00
11 10  6 16    15.0 1   353.0     4.10    18.60    99.00    99.00
11 10  6 17    15.0 1     8.0     3.10    17.60    99.00    99.00
11 10  6 18    15.0 1     9.0     3.60    16.50    99.00    99.00
11 10  6 19    15.0 1   355.0     3.60    15.60    99.00    99.00
11 10  6 20    15.0 1   327.0     3.60    14.60    99.00    99.00
11 10  6 21    15.0 1   323.0     3.60    13.60    99.00    99.00
11 10  6 22    15.0 1   329.0     2.60    12.60    99.00    99.00
11 10  6 23    15.0 1   326.0     1.00    12.10    99.00    99.00
11 10  6 24    15.0 1   282.0     0.50    11.60    99.00    99.00
11 10  7  1    15.0 1   239.0     1.50    11.10    99.00    99.00
11 10  7  2    15.0 1   244.0     2.60    10.40    99.00    99.00
11 10  7  3    15.0 1   256.0     2.60     9.60    99.00    99.00
11 10  7  4    15.0 1   267.0     2.60     9.00    99.00    99.00
11 10  7  5    15.0 1   281.0     2.60     8.40    99.00    99.00
11 10  7  6    15.0 1   288.0     2.10     7.80    99.00    99.00
11 10  7  7    15.0 1   286.0     2.10     7.40    99.00    99.00
11 10  7  8    15.0 1   327.0     1.50     9.30    99.00    99.00
11 10  7  9    15.0 1   340.0     0.50    11.10    99.00    99.00
11 10  7 10    15.0 1     0.0     0.00    13.00    99.00    99.00
11 10  7 11    15.0 1     0.0     0.00    14.60    99.00    99.00
11 10  7 12    15.0 1     0.0     0.00    16.10    99.00    99.00
11 10  7 13    15.0 1     0.0     0.00    17.50    99.00    99.00
11 10  7 14    15.0 1     0.0     0.00    18.50    99.00    99.00
11 10  7 15    15.0 1   357.0     1.00    18.90    99.00    99.00
11 10  7 16    15.0 1     8.0     1.50    19.30    99.00    99.00
11 10  7 17    15.0 1    12.0     2.10    18.90    99.00    99.00
11 10  7 18    15.0 1    17.0     2.60    18.10    99.00    99.00
11 10  7 19    15.0 1    37.0     1.50    17.10    99.00    99.00
11 10  7 20    15.0 1    89.0     0.50    16.00    99.00    99.00
11 10  7 21    15.0 1   126.0     0.50    14.60    99.00    99.00
11 10  7 22    15.0 1   155.0     1.00    13.50    99.00    99.00
11 10  7 23    15.0 1   155.0     1.00    12.80    99.00    99.00
11 10  7 24    15.0 1   141.0     1.00    12.10    99.00    99.00
11 10  8  1    15.0 1   135.0     1.00    11.60    99.00    99.00
11 10  8  2    15.0 1   139.0     0.50    11.10    99.00    99.00
11 10  8  3    15.0 1     0.0     0.00    10.60    99.00    99.00
11 10  8  4    15.0 1   291.0     0.50    10.10    99.00    99.00
11 10  8  5    15.0 1   286.0     1.00     9.60    99.00    99.00
11 10  8  6    15.0 1   285.0     1.00     9.50    99.00    99.00
11 10  8  7    15.0 1   261.0     1.00     9.30    99.00    99.00
11 10  8  8    15.0 1   329.0     1.00    11.10    99.00    99.00
11 10  8  9    15.0 1     0.0     0.00    13.30    99.00    99.00
11 10  8 10    15.0 1     0.0     0.00    15.50    99.00    99.00
11 10  8 11    15.0 1     0.0     0.00    17.10    99.00    99.00
11 10  8 12    15.0 1     0.0     0.00    18.60    99.00    99.00
11 10  8 13    15.0 1   324.0     0.50    19.90    99.00    99.00
11 10  8 14    15.0 1   339.0     1.50    20.80    99.00    99.00
11 10  8 15    15.0 1   353.0     1.50    21.30    99.00    99.00
11 10  8 16    15.0 1     5.0     2.60    21.40    99.00    99.00
11 10  8 17    15.0 1     0.0     0.00    20.90    99.00    99.00
11 10  8 18    15.0 1    14.0     2.60    20.00    99.00    99.00
11 10  8 19    15.0 1    40.0     1.00    18.80    99.00    99.00
11 10  8 20    15.0 1     0.0     0.00    17.50    99.00    99.00
11 10  8 21    15.0 1     0.0     0.00    16.10    99.00    99.00
11 10  8 22    15.0 1     0.0     0.00    15.10    99.00    99.00
11 10  8 23    15.0 1     0.0     0.00    14.10    99.00    99.00
11 10  8 24    15.0 1   331.0     0.50    13.50    99.00    99.00
11 10  9  1    15.0 1   316.0     0.50    13.10    99.00    99.00
11 10  9  2    15.0 1   303.0     1.00    12.80    99.00    99.00
11 10  9  3    15.0 1   304.0     2.10    12.30    99.00    99.00
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11 10  9  4    15.0 1   312.0     3.10    11.60    99.00    99.00
11 10  9  5    15.0 1   307.0     2.60    11.00    99.00    99.00
11 10  9  6    15.0 1   296.0     2.60    10.60    99.00    99.00
11 10  9  7    15.0 1   293.0     2.10    10.40    99.00    99.00
11 10  9  8    15.0 1   328.0     2.60    12.10    99.00    99.00
11 10  9  9    15.0 1   333.0     1.00    14.00    99.00    99.00
11 10  9 10    15.0 1     0.0     0.00    16.10    99.00    99.00
11 10  9 11    15.0 1     0.0     0.00    17.60    99.00    99.00
11 10  9 12    15.0 1     0.0     0.00    19.30    99.00    99.00
11 10  9 13    15.0 1   308.0     0.50    20.50    99.00    99.00
11 10  9 14    15.0 1   322.0     1.00    21.40    99.00    99.00
11 10  9 15    15.0 1   345.0     1.50    21.90    99.00    99.00
11 10  9 16    15.0 1   355.0     2.10    22.00    99.00    99.00
11 10  9 17    15.0 1     0.0     0.00    21.60    99.00    99.00
11 10  9 18    15.0 1    17.0     2.10    20.60    99.00    99.00
11 10  9 19    15.0 1    31.0     1.00    19.30    99.00    99.00
11 10  9 20    15.0 1     0.0     0.00    18.00    99.00    99.00
11 10  9 21    15.0 1     0.0     0.00    16.60    99.00    99.00
11 10  9 22    15.0 1     0.0     0.00    15.40    99.00    99.00
11 10  9 23    15.0 1     0.0     0.00    14.40    99.00    99.00
11 10  9 24    15.0 1    14.0     0.50    13.60    99.00    99.00
11 10 10  1    15.0 1    89.0     0.50    13.10    99.00    99.00
11 10 10  2    15.0 1    99.0     0.50    12.60    99.00    99.00
11 10 10  3    15.0 1   314.0     0.50    12.10    99.00    99.00
11 10 10  4    15.0 1   291.0     0.50    11.60    99.00    99.00
11 10 10  5    15.0 1   289.0     0.50    11.40    99.00    99.00
11 10 10  6    15.0 1   302.0     0.50    11.00    99.00    99.00
11 10 10  7    15.0 1     0.0     0.00    10.80    99.00    99.00
11 10 10  8    15.0 1     0.0     0.00    11.10    99.00    99.00
11 10 10  9    15.0 1     0.0     0.00    13.60    99.00    99.00
11 10 10 10    15.0 1     0.0     0.00    15.50    99.00    99.00
11 10 10 11    15.0 1     0.0     0.00    17.30    99.00    99.00
11 10 10 12    15.0 1     0.0     0.00    18.90    99.00    99.00
11 10 10 13    15.0 1     0.0     0.00    20.10    99.00    99.00
11 10 10 14    15.0 1     0.0     0.00    21.40    99.00    99.00
11 10 10 15    15.0 1     0.0     0.00    22.10    99.00    99.00
11 10 10 16    15.0 1   344.0     0.50    22.40    99.00    99.00
11 10 10 17    15.0 1    28.0     1.00    22.10    99.00    99.00
11 10 10 18    15.0 1    52.0     2.10    21.10    99.00    99.00
11 10 10 19    15.0 1    65.0     2.10    20.00    99.00    99.00
11 10 10 20    15.0 1    90.0     1.00    18.80    99.00    99.00
11 10 10 21    15.0 1   132.0     0.50    17.60    99.00    99.00
11 10 10 22    15.0 1   125.0     1.00    16.60    99.00    99.00
11 10 10 23    15.0 1   118.0     1.00    15.90    99.00    99.00
11 10 10 24    15.0 1     0.0     0.00    15.10    99.00    99.00
11 10 11  1    15.0 1   294.0     1.00    14.60    99.00    99.00
11 10 11  2    15.0 1   305.0     1.50    14.40    99.00    99.00
11 10 11  3    15.0 1   309.0     1.50    14.10    99.00    99.00
11 10 11  4    15.0 1   297.0     1.00    13.60    99.00    99.00
11 10 11  5    15.0 1   264.0     0.50    13.10    99.00    99.00
11 10 11  6    15.0 1   202.0     0.50    12.30    99.00    99.00
11 10 11  7    15.0 1   187.0     1.50    12.00    99.00    99.00
11 10 11  8    15.0 1   170.0     1.50    12.60    99.00    99.00
11 10 11  9    15.0 1   179.0     1.50    14.50    99.00    99.00
11 10 11 10    15.0 1   181.0     0.50    17.90    99.00    99.00
11 10 11 11    15.0 1     0.0     0.00    20.10    99.00    99.00
11 10 11 12    15.0 1     0.0     0.00    21.60    99.00    99.00
11 10 11 13    15.0 1   309.0     0.50    23.10    99.00    99.00
11 10 11 14    15.0 1   327.0     1.50    24.10    99.00    99.00
11 10 11 15    15.0 1   340.0     3.10    24.60    99.00    99.00
11 10 11 16    15.0 1   349.0     3.10    24.60    99.00    99.00
11 10 11 17    15.0 1    10.0     3.10    24.10    99.00    99.00
11 10 11 18    15.0 1    45.0     3.60    22.90    99.00    99.00
11 10 11 19    15.0 1    64.0     2.60    21.80    99.00    99.00
11 10 11 20    15.0 1    36.0     1.50    20.60    99.00    99.00
11 10 11 21    15.0 1   339.0     1.50    19.90    99.00    99.00
11 10 11 22    15.0 1   339.0     1.50    19.40    99.00    99.00
11 10 11 23    15.0 1   338.0     1.50    19.10    99.00    99.00
11 10 11 24    15.0 1   336.0     1.50    18.60    99.00    99.00
11 10 12  1    15.0 1   330.0     1.50    18.40    99.00    99.00
11 10 12  2    15.0 1   312.0     1.50    18.10    99.00    99.00
11 10 12  3    15.0 1   316.0     1.50    17.60    99.00    99.00
11 10 12  4    15.0 1   306.0     1.50    17.50    99.00    99.00
11 10 12  5    15.0 1   308.0     2.10    17.30    99.00    99.00
11 10 12  6    15.0 1   315.0     2.60    17.00    99.00    99.00
11 10 12  7    15.0 1   310.0     2.60    16.60    99.00    99.00
11 10 12  8    15.0 1   314.0     2.60    16.60    99.00    99.00
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11 10 12  9    15.0 1   313.0     2.10    16.50    99.00    99.00
11 10 12 10    15.0 1     0.0     0.00    17.10    99.00    99.00
11 10 12 11    15.0 1     0.0     0.00    19.80    99.00    99.00
11 10 12 12    15.0 1     0.0     0.00    21.90    99.00    99.00
11 10 12 13    15.0 1   342.0     0.50    23.50    99.00    99.00
11 10 12 14    15.0 1   347.0     1.00    24.60    99.00    99.00
11 10 12 15    15.0 1     5.0     2.10    25.10    99.00    99.00
11 10 12 16    15.0 1     3.0     2.60    26.60    99.00    99.00
11 10 12 17    15.0 1    13.0     2.10    26.40    99.00    99.00
11 10 12 18    15.0 1    16.0     2.10    25.30    99.00    99.00
11 10 12 19    15.0 1     9.0     0.50    24.10    99.00    99.00
11 10 12 20    15.0 1     0.0     0.00    22.60    99.00    99.00
11 10 12 21    15.0 1     0.0     0.00    21.60    99.00    99.00
11 10 12 22    15.0 1     0.0     0.00    20.60    99.00    99.00
11 10 12 23    15.0 1     0.0     0.00    19.80    99.00    99.00
11 10 12 24    15.0 1     0.0     0.00    19.10    99.00    99.00
11 10 13  1    15.0 1     0.0     0.00    18.60    99.00    99.00
11 10 13  2    15.0 1   302.0     0.50    18.10    99.00    99.00
11 10 13  3    15.0 1   302.0     1.00    17.80    99.00    99.00
11 10 13  4    15.0 1   300.0     1.00    17.40    99.00    99.00
11 10 13  5    15.0 1   308.0     1.00    17.10    99.00    99.00
11 10 13  6    15.0 1   307.0     1.00    16.80    99.00    99.00
11 10 13  7    15.0 1   311.0     1.00    16.50    99.00    99.00
11 10 13  8    15.0 1   324.0     0.50    17.80    99.00    99.00
11 10 13  9    15.0 1     0.0     0.00    20.00    99.00    99.00
11 10 13 10    15.0 1     0.0     0.00    22.10    99.00    99.00
11 10 13 11    15.0 1     0.0     0.00    24.50    99.00    99.00
11 10 13 12    15.0 1     0.0     0.00    26.60    99.00    99.00
11 10 13 13    15.0 1     0.0     0.00    28.00    99.00    99.00
11 10 13 14    15.0 1     0.0     0.00    28.90    99.00    99.00
11 10 13 15    15.0 1     8.0     1.50    29.30    99.00    99.00
11 10 13 16    15.0 1    16.0     1.50    29.10    99.00    99.00
11 10 13 17    15.0 1    24.0     2.10    28.60    99.00    99.00
11 10 13 18    15.0 1     6.0     1.50    27.10    99.00    99.00
11 10 13 19    15.0 1   266.0     0.50    25.60    99.00    99.00
11 10 13 20    15.0 1   235.0     0.50    24.10    99.00    99.00
11 10 13 21    15.0 1   221.0     0.50    23.00    99.00    99.00
11 10 13 22    15.0 1     0.0     0.00    22.00    99.00    99.00
11 10 13 23    15.0 1    50.0     0.50    21.10    99.00    99.00
11 10 13 24    15.0 1    54.0     1.00    20.40    99.00    99.00
11 10 14  1    15.0 1    45.0     1.00    19.80    99.00    99.00
11 10 14  2    15.0 1   341.0     0.50    19.40    99.00    99.00
11 10 14  3    15.0 1   292.0     0.50    18.90    99.00    99.00
11 10 14  4    15.0 1   284.0     1.00    18.40    99.00    99.00
11 10 14  5    15.0 1   291.0     1.50    18.10    99.00    99.00
11 10 14  6    15.0 1   299.0     1.50    17.80    99.00    99.00
11 10 14  7    15.0 1   305.0     1.50    17.50    99.00    99.00
11 10 14  8    15.0 1   300.0     1.00    17.60    99.00    99.00
11 10 14  9    15.0 1   328.0     1.00    19.60    99.00    99.00
11 10 14 10    15.0 1   324.0     0.50    21.30    99.00    99.00
11 10 14 11    15.0 1   335.0     0.50    23.10    99.00    99.00
11 10 14 12    15.0 1   342.0     0.50    24.60    99.00    99.00
11 10 14 13    15.0 1   353.0     0.50    25.80    99.00    99.00
11 10 14 14    15.0 1     5.0     1.50    26.40    99.00    99.00
11 10 14 15    15.0 1     0.0     0.00    26.50    99.00    99.00
11 10 14 16    15.0 1    10.0     2.10    26.10    99.00    99.00
11 10 14 17    15.0 1    22.0     2.10    25.40    99.00    99.00
11 10 14 18    15.0 1    29.0     1.00    24.50    99.00    99.00
11 10 14 19    15.0 1     0.0     0.00    23.60    99.00    99.00
11 10 14 20    15.0 1     0.0     0.00    22.80    99.00    99.00
11 10 14 21    15.0 1     0.0     0.00    22.30    99.00    99.00
11 10 14 22    15.0 1   319.0     1.00    22.00    99.00    99.00
11 10 14 23    15.0 1   351.0     1.50    21.60    99.00    99.00
11 10 14 24    15.0 1    14.0     2.60    21.30    99.00    99.00
11 10 15  1    15.0 1    16.0     3.60    21.00    99.00    99.00
11 10 15  2    15.0 1    32.0     4.10    20.50    99.00    99.00
11 10 15  3    15.0 1    41.0     4.10    19.80    99.00    99.00
11 10 15  4    15.0 1    44.0     3.60    19.30    99.00    99.00
11 10 15  5    15.0 1    41.0     3.10    19.00    99.00    99.00
11 10 15  6    15.0 1    37.0     2.60    18.60    99.00    99.00
11 10 15  7    15.0 1    45.0     1.50    18.30    99.00    99.00
11 10 15  8    15.0 1    31.0     1.50    18.90    99.00    99.00
11 10 15  9    15.0 1   358.0     1.50    21.40    99.00    99.00
11 10 15 10    15.0 1     1.0     1.00    23.50    99.00    99.00
11 10 15 11    15.0 1   355.0     1.00    25.60    99.00    99.00
11 10 15 12    15.0 1   344.0     1.00    27.00    99.00    99.00
11 10 15 13    15.0 1   348.0     1.00    28.10    99.00    99.00
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11 10 15 14    15.0 1     4.0     1.50    28.90    99.00    99.00
11 10 15 15    15.0 1     0.0     0.00    29.30    99.00    99.00
11 10 15 16    15.0 1    12.0     2.60    28.90    99.00    99.00
11 10 15 17    15.0 1     9.0     3.10    28.10    99.00    99.00
11 10 15 18    15.0 1     9.0     3.10    27.10    99.00    99.00
11 10 15 19    15.0 1   314.0     3.60    26.30    99.00    99.00
11 10 15 20    15.0 1   288.0     4.10    23.00    99.00    99.00
11 10 15 21    15.0 1   280.0     4.10    20.80    99.00    99.00
11 10 15 22    15.0 1   292.0     4.10    19.60    99.00    99.00
11 10 15 23    15.0 1   303.0     3.10    19.00    99.00    99.00
11 10 15 24    15.0 1   336.0     2.60    18.60    99.00    99.00
11 10 16  1    15.0 1    23.0     3.10    18.10    99.00    99.00
11 10 16  2    15.0 1    43.0     3.60    17.60    99.00    99.00
11 10 16  3    15.0 1    43.0     3.10    17.30    99.00    99.00
11 10 16  4    15.0 1    44.0     3.10    17.00    99.00    99.00
11 10 16  5    15.0 1    37.0     2.60    16.80    99.00    99.00
11 10 16  6    15.0 1    40.0     2.60    16.50    99.00    99.00
11 10 16  7    15.0 1    50.0     1.50    16.30    99.00    99.00
11 10 16  8    15.0 1   354.0     0.50    17.50    99.00    99.00
11 10 16  9    15.0 1     0.0     0.00    19.00    99.00    99.00
11 10 16 10    15.0 1     0.0     0.00    20.50    99.00    99.00
11 10 16 11    15.0 1     0.0     0.00    22.10    99.00    99.00
11 10 16 12    15.0 1     0.0     0.00    23.60    99.00    99.00
11 10 16 13    15.0 1     0.0     0.00    24.60    99.00    99.00
11 10 16 14    15.0 1     0.0     0.00    25.50    99.00    99.00
11 10 16 15    15.0 1     1.0     0.50    26.10    99.00    99.00
11 10 16 16    15.0 1     6.0     1.00    26.10    99.00    99.00
11 10 16 17    15.0 1    29.0     1.50    26.10    99.00    99.00
11 10 16 18    15.0 1    43.0     2.60    25.10    99.00    99.00
11 10 16 19    15.0 1    50.0     2.10    24.00    99.00    99.00
11 10 16 20    15.0 1    64.0     1.00    23.00    99.00    99.00
11 10 16 21    15.0 1     0.0     0.00    22.00    99.00    99.00
11 10 16 22    15.0 1   283.0     1.50    21.00    99.00    99.00
11 10 16 23    15.0 1   292.0     2.60    20.10    99.00    99.00
11 10 16 24    15.0 1   305.0     2.60    19.50    99.00    99.00
11 10 17  1    15.0 1   299.0     2.10    19.00    99.00    99.00
11 10 17  2    15.0 1   309.0     1.50    18.60    99.00    99.00
11 10 17  3    15.0 1   298.0     1.00    18.10    99.00    99.00
11 10 17  4    15.0 1   296.0     1.00    17.80    99.00    99.00
11 10 17  5    15.0 1   299.0     1.50    17.40    99.00    99.00
11 10 17  6    15.0 1   298.0     1.00    17.10    99.00    99.00
11 10 17  7    15.0 1   300.0     1.00    16.80    99.00    99.00
11 10 17  8    15.0 1   337.0     1.00    17.80    99.00    99.00
11 10 17  9    15.0 1     0.0     0.00    19.60    99.00    99.00
11 10 17 10    15.0 1     0.0     0.00    21.60    99.00    99.00
11 10 17 11    15.0 1     0.0     0.00    23.10    99.00    99.00
11 10 17 12    15.0 1     0.0     0.00    24.90    99.00    99.00
11 10 17 13    15.0 1     0.0     0.00    26.40    99.00    99.00
11 10 17 14    15.0 1     0.0     0.00    27.40    99.00    99.00
11 10 17 15    15.0 1    17.0     1.50    27.80    99.00    99.00
11 10 17 16    15.0 1     7.0     2.60    27.60    99.00    99.00
11 10 17 17    15.0 1    24.0     3.10    27.10    99.00    99.00
11 10 17 18    15.0 1    27.0     3.10    25.90    99.00    99.00
11 10 17 19    15.0 1    32.0     1.50    24.60    99.00    99.00
11 10 17 20    15.0 1   240.0     0.50    23.50    99.00    99.00
11 10 17 21    15.0 1   248.0     1.00    22.50    99.00    99.00
11 10 17 22    15.0 1   279.0     2.10    21.80    99.00    99.00
11 10 17 23    15.0 1   287.0     2.60    21.10    99.00    99.00
11 10 17 24    15.0 1   298.0     2.60    20.30    99.00    99.00
11 10 18  1    15.0 1   298.0     2.10    19.60    99.00    99.00
11 10 18  2    15.0 1   293.0     1.50    19.30    99.00    99.00
11 10 18  3    15.0 1   284.0     2.10    18.90    99.00    99.00
11 10 18  4    15.0 1   281.0     3.60    18.30    99.00    99.00
11 10 18  5    15.0 1   278.0     3.60    17.60    99.00    99.00
11 10 18  6    15.0 1   293.0     3.10    17.30    99.00    99.00
11 10 18  7    15.0 1   292.0     2.60    17.10    99.00    99.00
11 10 18  8    15.0 1   315.0     2.60    17.80    99.00    99.00
11 10 18  9    15.0 1   322.0     2.10    19.30    99.00    99.00
11 10 18 10    15.0 1   297.0     1.00    21.00    99.00    99.00
11 10 18 11    15.0 1   293.0     1.00    23.00    99.00    99.00
11 10 18 12    15.0 1   302.0     1.00    24.30    99.00    99.00
11 10 18 13    15.0 1   318.0     1.00    25.40    99.00    99.00
11 10 18 14    15.0 1   340.0     1.00    26.30    99.00    99.00
11 10 18 15    15.0 1   354.0     1.50    26.80    99.00    99.00
11 10 18 16    15.0 1     6.0     2.10    26.80    99.00    99.00
11 10 18 17    15.0 1     8.0     2.10    26.40    99.00    99.00
11 10 18 18    15.0 1    17.0     1.00    25.10    99.00    99.00
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11 10 18 19     15.0 1      0.0      0.00     23.60     99.00     99.00
11 10 18 20     15.0 1    251.0      1.00     22.40     99.00     99.00
11 10 18 21     15.0 1    285.0      3.10     21.60     99.00     99.00
11 10 18 22     15.0 1    286.0      4.10     19.80     99.00     99.00
11 10 18 23     15.0 1    286.0      3.60     18.80     99.00     99.00
11 10 18 24     15.0 1    290.0      3.10     18.30     99.00     99.00
11 10 19  1     15.0 1    290.0      3.10     18.00     99.00     99.00
11 10 19  2     15.0 1    304.0      3.10     17.60     99.00     99.00
11 10 19  3     15.0 1    308.0      2.60     17.10     99.00     99.00
11 10 19  4     15.0 1    318.0      1.50     16.60     99.00     99.00
11 10 19  5     15.0 1    344.0      1.00     16.10     99.00     99.00
11 10 19  6     15.0 1      8.0      1.00     15.40     99.00     99.00
11 10 19  7     15.0 1      4.0      1.00     15.10     99.00     99.00
11 10 19  8     15.0 1      0.0      0.00     15.10     99.00     99.00
11 10 19  9     15.0 1     24.0      0.50     15.30     99.00     99.00
11 10 19 10     15.0 1      0.0      0.00     16.00     99.00     99.00
11 10 19 11     15.0 1     82.0      0.50     17.80     99.00     99.00
11 10 19 12     15.0 1      0.0      0.00     20.10     99.00     99.00
11 10 19 13     15.0 1      0.0      0.00     21.60     99.00     99.00
11 10 19 14     15.0 1    333.0      1.00     22.60     99.00     99.00
11 10 19 15     15.0 1    338.0      1.50     23.30     99.00     99.00
11 10 19 16     15.0 1    348.0      2.10     23.40     99.00     99.00
11 10 19 17     15.0 1     18.0      2.10     23.10     99.00     99.00
11 10 19 18     15.0 1     41.0      2.10     22.30     99.00     99.00
11 10 19 19     15.0 1     52.0      1.00     21.40     99.00     99.00
11 10 19 20     15.0 1      0.0      0.00     20.40     99.00     99.00
11 10 19 21     15.0 1    289.0      0.50     19.30     99.00     99.00
11 10 19 22     15.0 1    313.0      0.50     18.50     99.00     99.00
11 10 19 23     15.0 1    302.0      0.50     17.80     99.00     99.00
11 10 19 24     15.0 1    296.0      0.50     17.30     99.00     99.00
11 10 20  1     15.0 1    316.0      0.50     16.80     99.00     99.00
11 10 20  2     15.0 1    340.0      0.50     16.50     99.00     99.00
11 10 20  3     15.0 1    340.0      1.00     16.10     99.00     99.00
11 10 20  4     15.0 1    346.0      1.50     15.60     99.00     99.00
11 10 20  5     15.0 1      4.0      1.50     15.10     99.00     99.00
11 10 20  6     15.0 1     10.0      1.50     14.30     99.00     99.00
11 10 20  7     15.0 1    355.0      1.00     14.10     99.00     99.00
11 10 20  8     15.0 1    330.0      1.50     14.40     99.00     99.00
11 10 20  9     15.0 1    304.0      1.00     14.60     99.00     99.00
11 10 20 10     15.0 1      0.0      0.00     15.30     99.00     99.00
11 10 20 11     15.0 1      0.0      0.00     17.10     99.00     99.00
11 10 20 12     15.0 1      0.0      0.00     19.10     99.00     99.00
11 10 20 13     15.0 1      0.0      0.00     20.90     99.00     99.00
11 10 20 14     15.0 1    354.0      0.50     22.10     99.00     99.00
11 10 20 15     15.0 1    354.0      1.50     22.80     99.00     99.00
11 10 20 16     15.0 1      2.0      2.10     23.00     99.00     99.00
11 10 20 17     15.0 1     13.0      1.50     22.90     99.00     99.00
11 10 20 18     15.0 1     41.0      0.50     21.90     99.00     99.00
11 10 20 19     15.0 1      0.0      0.00     20.60     99.00     99.00
11 10 20 20     15.0 1    166.0      0.50     19.50     99.00     99.00
11 10 20 21     15.0 1    176.0      0.50     18.60     99.00     99.00
11 10 20 22     15.0 1    169.0      0.50     17.80     99.00     99.00
11 10 20 23     15.0 1    125.0      0.50     17.10     99.00     99.00
11 10 20 24     15.0 1     97.0      0.50     16.50     99.00     99.00
11 10 21  1     15.0 1    326.0      0.50     16.00     99.00     99.00
11 10 21  2     15.0 1    338.0      1.00     15.50     99.00     99.00
11 10 21  3     15.0 1    360.0      1.00     14.60     99.00     99.00
11 10 21  4     15.0 1      9.0      1.50     14.10     99.00     99.00
11 10 21  5     15.0 1     11.0      1.50     13.90     99.00     99.00
11 10 21  6     15.0 1      0.0      0.00     13.80     99.00     99.00
11 10 21  7     15.0 1    355.0      0.50     13.60     99.00     99.00
11 10 21  8     15.0 1    341.0      0.50     13.80     99.00     99.00
11 10 21  9     15.0 1      0.0      0.00     14.00     99.00     99.00
11 10 21 10     15.0 1      0.0      0.00     14.30     99.00     99.00
11 10 21 11     15.0 1      0.0      0.00     15.30     99.00     99.00
11 10 21 12     15.0 1      0.0      0.00     17.40     99.00     99.00
11 10 21 13     15.0 1    356.0      0.50     19.60     99.00     99.00
11 10 21 14     15.0 1    355.0      1.00     21.00     99.00     99.00
11 10 21 15     15.0 1    346.0      1.50     21.80     99.00     99.00
11 10 21 16     15.0 1      0.0      0.00     22.10     99.00     99.00
11 10 21 17     15.0 1     36.0      1.00     21.90     99.00     99.00
11 10 21 18     15.0 1     76.0      1.00     20.90     99.00     99.00
11 10 21 19     15.0 1    125.0      1.00     19.60     99.00     99.00
11 10 21 20     15.0 1    142.0      0.50     18.60     99.00     99.00
11 10 21 21     15.0 1    132.0      0.50     17.60     99.00     99.00
11 10 21 22     15.0 1      0.0      0.00     16.90     99.00     99.00
11 10 21 23     15.0 1      0.0      0.00     16.10     99.00     99.00
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11 10 21 24    15.0 1     0.0     0.00    15.10    99.00    99.00
11 10 22  1    15.0 1     0.0     0.00    13.60    99.00    99.00
11 10 22  2    15.0 1     0.0     0.00    12.50    99.00    99.00
11 10 22  3    15.0 1   332.0     0.50    12.90    99.00    99.00
11 10 22  4    15.0 1   341.0     0.50    13.00    99.00    99.00
11 10 22  5    15.0 1   344.0     1.00    12.80    99.00    99.00
11 10 22  6    15.0 1   337.0     1.00    12.60    99.00    99.00
11 10 22  7    15.0 1   316.0     0.50    12.50    99.00    99.00
11 10 22  8    15.0 1   309.0     0.50    13.10    99.00    99.00
11 10 22  9    15.0 1     0.0     0.00    14.40    99.00    99.00
11 10 22 10    15.0 1     0.0     0.00    16.60    99.00    99.00
11 10 22 11    15.0 1     0.0     0.00    19.40    99.00    99.00
11 10 22 12    15.0 1     0.0     0.00    21.60    99.00    99.00
11 10 22 13    15.0 1   331.0     0.50    22.90    99.00    99.00
11 10 22 14    15.0 1   355.0     0.50    24.00    99.00    99.00
11 10 22 15    15.0 1     0.0     0.00    24.50    99.00    99.00
11 10 22 16    15.0 1    13.0     2.10    25.30    99.00    99.00
11 10 22 17    15.0 1    32.0     2.10    24.60    99.00    99.00
11 10 22 18    15.0 1    44.0     2.10    23.50    99.00    99.00
11 10 22 19    15.0 1    34.0     1.50    22.10    99.00    99.00
11 10 22 20    15.0 1     0.0     0.00    20.90    99.00    99.00
11 10 22 21    15.0 1     0.0     0.00    19.60    99.00    99.00
11 10 22 22    15.0 1     0.0     0.00    18.80    99.00    99.00
11 10 22 23    15.0 1    17.0     0.50    18.10    99.00    99.00
11 10 22 24    15.0 1   347.0     0.50    17.50    99.00    99.00
11 10 23  1    15.0 1   344.0     1.00    17.00    99.00    99.00
11 10 23  2    15.0 1   345.0     2.10    16.60    99.00    99.00
11 10 23  3    15.0 1   328.0     2.60    16.30    99.00    99.00
11 10 23  4    15.0 1   327.0     2.60    15.90    99.00    99.00
11 10 23  5    15.0 1   325.0     2.10    15.50    99.00    99.00
11 10 23  6    15.0 1   313.0     1.50    15.10    99.00    99.00
11 10 23  7    15.0 1   272.0     1.00    14.80    99.00    99.00
11 10 23  8    15.0 1   233.0     0.50    14.90    99.00    99.00
11 10 23  9    15.0 1   292.0     1.00    17.60    99.00    99.00
11 10 23 10    15.0 1   276.0     0.50    19.40    99.00    99.00
11 10 23 11    15.0 1   293.0     0.50    21.90    99.00    99.00
11 10 23 12    15.0 1     0.0     0.00    24.30    99.00    99.00
11 10 23 13    15.0 1   306.0     0.50    26.00    99.00    99.00
11 10 23 14    15.0 1   340.0     0.50    27.00    99.00    99.00
11 10 23 15    15.0 1     0.0     0.00    27.50    99.00    99.00
11 10 23 16    15.0 1    11.0     2.10    27.10    99.00    99.00
11 10 23 17    15.0 1     8.0     3.10    26.30    99.00    99.00
11 10 23 18    15.0 1    21.0     3.10    24.80    99.00    99.00
11 10 23 19    15.0 1     8.0     2.10    23.50    99.00    99.00
11 10 23 20    15.0 1   317.0     1.00    22.10    99.00    99.00
11 10 23 21    15.0 1   280.0     1.00    21.10    99.00    99.00
11 10 23 22    15.0 1   296.0     1.50    20.40    99.00    99.00
11 10 23 23    15.0 1   344.0     2.10    19.60    99.00    99.00
11 10 23 24    15.0 1     0.0     0.00    18.90    99.00    99.00
11 10 24  1    15.0 1    11.0     4.60    18.10    99.00    99.00
11 10 24  2    15.0 1     8.0     4.60    17.30    99.00    99.00
11 10 24  3    15.0 1    10.0     4.10    16.80    99.00    99.00
11 10 24  4    15.0 1    12.0     4.10    16.50    99.00    99.00
11 10 24  5    15.0 1    15.0     3.60    16.10    99.00    99.00
11 10 24  6    15.0 1    30.0     3.10    16.00    99.00    99.00
11 10 24  7    15.0 1    53.0     2.60    15.60    99.00    99.00
11 10 24  8    15.0 1    72.0     2.60    16.00    99.00    99.00
11 10 24  9    15.0 1    59.0     1.00    18.30    99.00    99.00
11 10 24 10    15.0 1     0.0     0.00    20.10    99.00    99.00
11 10 24 11    15.0 1     0.0     0.00    22.30    99.00    99.00
11 10 24 12    15.0 1     0.0     0.00    23.60    99.00    99.00
11 10 24 13    15.0 1   318.0     0.50    24.60    99.00    99.00
11 10 24 14    15.0 1   321.0     1.00    25.40    99.00    99.00
11 10 24 15    15.0 1   326.0     1.50    25.80    99.00    99.00
11 10 24 16    15.0 1   352.0     1.50    25.80    99.00    99.00
11 10 24 17    15.0 1    17.0     1.50    25.40    99.00    99.00
11 10 24 18    15.0 1    44.0     1.00    24.10    99.00    99.00
11 10 24 19    15.0 1   273.0     2.10    23.10    99.00    99.00
11 10 24 20    15.0 1   284.0     4.60    20.50    99.00    99.00
11 10 24 21    15.0 1   285.0     4.10    18.40    99.00    99.00
11 10 24 22    15.0 1   281.0     3.60    17.50    99.00    99.00
11 10 24 23    15.0 1   305.0     3.10    16.80    99.00    99.00
11 10 24 24    15.0 1   334.0     2.10    16.30    99.00    99.00
11 10 25  1    15.0 1     8.0     1.50    15.90    99.00    99.00
11 10 25  2    15.0 1    37.0     1.00    15.60    99.00    99.00
11 10 25  3    15.0 1     0.0     0.00    15.10    99.00    99.00
11 10 25  4    15.0 1   272.0     0.50    14.80    99.00    99.00
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11 10 25  5    15.0 1   275.0     0.50    14.50    99.00    99.00
11 10 25  6    15.0 1   274.0     0.50    14.30    99.00    99.00
11 10 25  7    15.0 1   273.0     0.50    14.30    99.00    99.00
11 10 25  8    15.0 1     0.0     0.00    14.50    99.00    99.00
11 10 25  9    15.0 1   315.0     0.50    15.40    99.00    99.00
11 10 25 10    15.0 1     0.0     0.00    16.40    99.00    99.00
11 10 25 11    15.0 1   181.0     0.50    17.10    99.00    99.00
11 10 25 12    15.0 1   169.0     1.00    18.10    99.00    99.00
11 10 25 13    15.0 1     0.0     0.00    19.30    99.00    99.00
11 10 25 14    15.0 1     0.0     0.00    20.40    99.00    99.00
11 10 25 15    15.0 1   325.0     0.50    21.10    99.00    99.00
11 10 25 16    15.0 1   355.0     1.50    21.40    99.00    99.00
11 10 25 17    15.0 1    16.0     1.50    21.30    99.00    99.00
11 10 25 18    15.0 1    11.0     1.00    20.30    99.00    99.00
11 10 25 19    15.0 1   308.0     1.00    19.10    99.00    99.00
11 10 25 20    15.0 1   309.0     2.10    18.00    99.00    99.00
11 10 25 21    15.0 1   306.0     2.60    16.90    99.00    99.00
11 10 25 22    15.0 1   325.0     2.60    15.90    99.00    99.00
11 10 25 23    15.0 1   318.0     2.60    15.10    99.00    99.00
11 10 25 24    15.0 1   307.0     2.60    14.30    99.00    99.00
11 10 26  1    15.0 1   299.0     2.10    13.60    99.00    99.00
11 10 26  2    15.0 1   289.0     2.10    13.00    99.00    99.00
11 10 26  3    15.0 1   266.0     2.60    12.40    99.00    99.00
11 10 26  4    15.0 1   257.0     3.10    11.80    99.00    99.00
11 10 26  5    15.0 1   250.0     3.10    11.10    99.00    99.00
11 10 26  6    15.0 1   249.0     3.10    10.40    99.00    99.00
11 10 26  7    15.0 1   246.0     3.10     9.80    99.00    99.00
11 10 26  8    15.0 1   290.0     2.60    10.10    99.00    99.00
11 10 26  9    15.0 1   327.0     2.10    12.00    99.00    99.00
11 10 26 10    15.0 1   306.0     0.50    13.60    99.00    99.00
11 10 26 11    15.0 1   269.0     0.50    14.90    99.00    99.00
11 10 26 12    15.0 1   279.0     1.00    16.10    99.00    99.00
11 10 26 13    15.0 1   290.0     1.50    17.30    99.00    99.00
11 10 26 14    15.0 1   325.0     2.10    18.00    99.00    99.00
11 10 26 15    15.0 1   342.0     2.60    18.50    99.00    99.00
11 10 26 16    15.0 1   349.0     2.60    18.50    99.00    99.00
11 10 26 17    15.0 1     0.0     0.00    18.10    99.00    99.00
11 10 26 18    15.0 1     0.0     0.00    17.30    99.00    99.00
11 10 26 19    15.0 1   217.0     0.50    16.00    99.00    99.00
11 10 26 20    15.0 1     0.0     0.00    14.80    99.00    99.00
11 10 26 21    15.0 1     0.0     0.00    13.80    99.00    99.00
11 10 26 22    15.0 1   145.0     0.50    12.80    99.00    99.00
11 10 26 23    15.0 1     0.0     0.00    12.00    99.00    99.00
11 10 26 24    15.0 1   305.0     1.00    11.60    99.00    99.00
11 10 27  1    15.0 1   299.0     2.60    11.50    99.00    99.00
11 10 27  2    15.0 1   299.0     3.10    11.00    99.00    99.00
11 10 27  3    15.0 1   288.0     2.60    10.30    99.00    99.00
11 10 27  4    15.0 1   277.0     2.60     9.80    99.00    99.00
11 10 27  5    15.0 1   294.0     2.10     9.40    99.00    99.00
11 10 27  6    15.0 1   308.0     1.50     8.90    99.00    99.00
11 10 27  7    15.0 1   285.0     1.00     8.50    99.00    99.00
11 10 27  8    15.0 1   272.0     1.00     8.80    99.00    99.00
11 10 27  9    15.0 1   298.0     1.00    10.50    99.00    99.00
11 10 27 10    15.0 1     0.0     0.00    12.50    99.00    99.00
11 10 27 11    15.0 1     0.0     0.00    14.60    99.00    99.00
11 10 27 12    15.0 1     0.0     0.00    16.10    99.00    99.00
11 10 27 13    15.0 1   305.0     0.50    17.50    99.00    99.00
11 10 27 14    15.0 1   335.0     0.50    18.50    99.00    99.00
11 10 27 15    15.0 1     4.0     1.00    19.00    99.00    99.00
11 10 27 16    15.0 1    25.0     2.10    18.80    99.00    99.00
11 10 27 17    15.0 1    41.0     2.10    18.10    99.00    99.00
11 10 27 18    15.0 1    75.0     1.50    16.90    99.00    99.00
11 10 27 19    15.0 1   159.0     0.50    15.50    99.00    99.00
11 10 27 20    15.0 1   209.0     0.50    14.10    99.00    99.00
11 10 27 21    15.0 1     0.0     0.00    13.30    99.00    99.00
11 10 27 22    15.0 1     0.0     0.00    12.50    99.00    99.00
11 10 27 23    15.0 1    73.0     0.50    11.60    99.00    99.00
11 10 27 24    15.0 1     0.0     0.00    10.90    99.00    99.00
11 10 28  1    15.0 1     0.0     0.00    10.10    99.00    99.00
11 10 28  2    15.0 1     0.0     0.00     9.60    99.00    99.00
11 10 28  3    15.0 1     0.0     0.00     9.10    99.00    99.00
11 10 28  4    15.0 1   290.0     0.50     8.60    99.00    99.00
11 10 28  5    15.0 1   300.0     1.50     8.40    99.00    99.00
11 10 28  6    15.0 1   305.0     2.10     8.30    99.00    99.00
11 10 28  7    15.0 1   296.0     2.10     8.10    99.00    99.00
11 10 28  8    15.0 1   305.0     1.50     8.40    99.00    99.00
11 10 28  9    15.0 1   313.0     1.50    11.10    99.00    99.00
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11 10 28 10     15.0 1   297.0      1.00     13.00     99.00     99.00
11 10 28 11     15.0 1   297.0      0.50     15.00     99.00     99.00
11 10 28 12     15.0 1   308.0      0.50     17.10     99.00     99.00
11 10 28 13     15.0 1   321.0      0.50     18.40     99.00     99.00
11 10 28 14     15.0 1   336.0      1.00     19.10     99.00     99.00
11 10 28 15     15.0 1   346.0      1.50     19.60     99.00     99.00
11 10 28 16     15.0 1     0.0      0.00     19.60     99.00     99.00
11 10 28 17     15.0 1    10.0      1.50     19.10     99.00     99.00
11 10 28 18     15.0 1    16.0      0.50     17.80     99.00     99.00
11 10 28 19     15.0 1     0.0      0.00     16.30     99.00     99.00
11 10 28 20     15.0 1   198.0      0.50     15.00     99.00     99.00
11 10 28 21     15.0 1     0.0      0.00     14.00     99.00     99.00
11 10 28 22     15.0 1    84.0      0.50     13.10     99.00     99.00
11 10 28 23     15.0 1    80.0      0.50     12.10     99.00     99.00
11 10 28 24     15.0 1    89.0      0.50     11.40     99.00     99.00
11 10 29  1     15.0 1    79.0      0.50     10.80     99.00     99.00
11 10 29  2     15.0 1    88.0      0.50     10.30     99.00     99.00
11 10 29  3     15.0 1    89.0      0.50      9.80     99.00     99.00
11 10 29  4     15.0 1     0.0      0.00      9.10     99.00     99.00
11 10 29  5     15.0 1   315.0      0.50      8.80     99.00     99.00
11 10 29  6     15.0 1   294.0      0.50      8.60     99.00     99.00
11 10 29  7     15.0 1   259.0      0.50      8.40     99.00     99.00
11 10 29  8     15.0 1   228.0      0.50      8.80     99.00     99.00
11 10 29  9     15.0 1     0.0      0.00     11.80     99.00     99.00
11 10 29 10     15.0 1     0.0      0.00     14.00     99.00     99.00
11 10 29 11     15.0 1     0.0      0.00     16.10     99.00     99.00
11 10 29 12     15.0 1   295.0      0.50     17.40     99.00     99.00
11 10 29 13     15.0 1   306.0      0.50     18.50     99.00     99.00
11 10 29 14     15.0 1   326.0      1.00     19.40     99.00     99.00
11 10 29 15     15.0 1   343.0      1.00     19.90     99.00     99.00
11 10 29 16     15.0 1     0.0      0.00     19.90     99.00     99.00
11 10 29 17     15.0 1    32.0      1.00     19.40     99.00     99.00
11 10 29 18     15.0 1    79.0      0.50     18.10     99.00     99.00
11 10 29 19     15.0 1     0.0      0.00     16.60     99.00     99.00
11 10 29 20     15.0 1     0.0      0.00     15.50     99.00     99.00
11 10 29 21     15.0 1     0.0      0.00     14.40     99.00     99.00
11 10 29 22     15.0 1     0.0      0.00     13.50     99.00     99.00
11 10 29 23     15.0 1     0.0      0.00     12.60     99.00     99.00
11 10 29 24     15.0 1     0.0      0.00     11.90     99.00     99.00
11 10 30  1     15.0 1     0.0      0.00     11.40     99.00     99.00
11 10 30  2     15.0 1   315.0      0.50     11.10     99.00     99.00
11 10 30  3     15.0 1   303.0      1.00     11.00     99.00     99.00
11 10 30  4     15.0 1   296.0      1.50     10.90     99.00     99.00
11 10 30  5     15.0 1   288.0      2.10     10.60     99.00     99.00
11 10 30  6     15.0 1   286.0      2.10     10.50     99.00     99.00
11 10 30  7     15.0 1   277.0      1.50     10.30     99.00     99.00
11 10 30  8     15.0 1   269.0      1.00     10.60     99.00     99.00
11 10 30  9     15.0 1   287.0      1.50     13.50     99.00     99.00
11 10 30 10     15.0 1   284.0      1.00     15.60     99.00     99.00
11 10 30 11     15.0 1   280.0      0.50     17.60     99.00     99.00
11 10 30 12     15.0 1     0.0      0.00     19.60     99.00     99.00
11 10 30 13     15.0 1   313.0      0.50     21.30     99.00     99.00
11 10 30 14     15.0 1   318.0      1.00     22.10     99.00     99.00
11 10 30 15     15.0 1   333.0      1.50     22.60     99.00     99.00
11 10 30 16     15.0 1   349.0      1.50     22.60     99.00     99.00
11 10 30 17     15.0 1    14.0      1.00     21.90     99.00     99.00
11 10 30 18     15.0 1     0.0      0.00     20.50     99.00     99.00
11 10 30 19     15.0 1     0.0      0.00     18.90     99.00     99.00
11 10 30 20     15.0 1     0.0      0.00     17.50     99.00     99.00
11 10 30 21     15.0 1     0.0      0.00     16.40     99.00     99.00
11 10 30 22     15.0 1     0.0      0.00     15.40     99.00     99.00
11 10 30 23     15.0 1    79.0      0.50     14.60     99.00     99.00
11 10 30 24     15.0 1    87.0      0.50     13.80     99.00     99.00
11 10 31  1     15.0 1     0.0      0.00     13.10     99.00     99.00
11 10 31  2     15.0 1     0.0      0.00     12.60     99.00     99.00
11 10 31  3     15.0 1     0.0      0.00     12.10     99.00     99.00
11 10 31  4     15.0 1     0.0      0.00     11.80     99.00     99.00
11 10 31  5     15.0 1   290.0      0.50     11.60     99.00     99.00
11 10 31  6     15.0 1   287.0      1.00     11.50     99.00     99.00
11 10 31  7     15.0 1   295.0      1.00     11.30     99.00     99.00
11 10 31  8     15.0 1   281.0      0.50     11.40     99.00     99.00
11 10 31  9     15.0 1   306.0      0.50     13.90     99.00     99.00
11 10 31 10     15.0 1     0.0      0.00     15.90     99.00     99.00
11 10 31 11     15.0 1     0.0      0.00     18.00     99.00     99.00
11 10 31 12     15.0 1     0.0      0.00     19.60     99.00     99.00
11 10 31 13     15.0 1     0.0      0.00     20.60     99.00     99.00
11 10 31 14     15.0 1   314.0      0.50     21.60     99.00     99.00
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11 10 31 15     15.0 1   330.0      1.00     22.00     99.00     99.00
11 10 31 16     15.0 1   351.0      1.50     22.00     99.00     99.00
11 10 31 17     15.0 1     0.0      0.00     21.50     99.00     99.00
11 10 31 18     15.0 1    13.0      1.00     20.10     99.00     99.00
11 10 31 19     15.0 1     0.0      0.00     18.80     99.00     99.00
11 10 31 20     15.0 1     0.0      0.00     17.50     99.00     99.00
11 10 31 21     15.0 1     0.0      0.00     16.50     99.00     99.00
11 10 31 22     15.0 1     0.0      0.00     15.60     99.00     99.00
11 10 31 23     15.0 1   304.0      1.00     15.10     99.00     99.00
11 10 31 24     15.0 1   307.0      1.50     14.60     99.00     99.00
11 11  1  1     15.0 1   306.0      2.10     14.50     99.00     99.00
11 11  1  2     15.0 1   310.0      1.50     14.10     99.00     99.00
11 11  1  3     15.0 1   300.0      1.00     13.90     99.00     99.00
11 11  1  4     15.0 1   297.0      1.00     13.50     99.00     99.00
11 11  1  5     15.0 1   300.0      0.50     13.00     99.00     99.00
11 11  1  6     15.0 1     0.0      0.00     12.10     99.00     99.00
11 11  1  7     15.0 1     0.0      0.00     10.90     99.00     99.00
11 11  1  8     15.0 1     5.0      1.00     10.80     99.00     99.00
11 11  1  9     15.0 1   348.0      0.50     12.00     99.00     99.00
11 11  1 10     15.0 1     0.0      0.00     13.60     99.00     99.00
11 11  1 11     15.0 1     0.0      0.00     15.80     99.00     99.00
11 11  1 12     15.0 1   280.0      1.00     17.40     99.00     99.00
11 11  1 13     15.0 1   292.0      2.10     18.60     99.00     99.00
11 11  1 14     15.0 1   317.0      2.60     19.40     99.00     99.00
11 11  1 15     15.0 1   341.0      2.60     19.60     99.00     99.00
11 11  1 16     15.0 1   339.0      2.10     20.10     99.00     99.00
11 11  1 17     15.0 1   331.0      1.50     19.80     99.00     99.00
11 11  1 18     15.0 1   309.0      0.50     18.60     99.00     99.00
11 11  1 19     15.0 1   156.0      0.50     17.30     99.00     99.00
11 11  1 20     15.0 1   185.0      0.50     16.00     99.00     99.00
11 11  1 21     15.0 1   187.0      1.00     14.90     99.00     99.00
11 11  1 22     15.0 1   200.0      2.10     14.40     99.00     99.00
11 11  1 23     15.0 1   232.0      2.60     14.10     99.00     99.00
11 11  1 24     15.0 1   260.0      2.60     13.90     99.00     99.00
11 11  2  1     15.0 1   274.0      2.10     13.30     99.00     99.00
11 11  2  2     15.0 1   302.0      1.50     12.30     99.00     99.00
11 11  2  3     15.0 1   351.0      1.00     11.40     99.00     99.00
11 11  2  4     15.0 1    46.0      1.00     10.80     99.00     99.00
11 11  2  5     15.0 1    77.0      2.10     10.50     99.00     99.00
11 11  2  6     15.0 1    91.0      2.10     10.10     99.00     99.00
11 11  2  7     15.0 1    96.0      2.10      9.80     99.00     99.00
11 11  2  8     15.0 1   111.0      2.10      9.80     99.00     99.00
11 11  2  9     15.0 1   106.0      2.10     12.60     99.00     99.00
11 11  2 10     15.0 1   108.0      2.10     15.80     99.00     99.00
11 11  2 11     15.0 1    96.0      2.60     18.50     99.00     99.00
11 11  2 12     15.0 1   103.0      3.10     20.50     99.00     99.00
11 11  2 13     15.0 1    99.0      4.10     21.80     99.00     99.00
11 11  2 14     15.0 1   112.0      4.10     22.40     99.00     99.00
11 11  2 15     15.0 1   108.0      3.60     22.10     99.00     99.00
11 11  2 16     15.0 1   110.0      3.10     21.00     99.00     99.00
11 11  2 17     15.0 1   112.0      3.10     19.40     99.00     99.00
11 11  2 18     15.0 1   122.0      4.60     16.80     99.00     99.00
11 11  2 19     15.0 1   131.0      5.70     14.50     99.00     99.00
11 11  2 20     15.0 1   139.0      5.70     13.00     99.00     99.00
11 11  2 21     15.0 1   138.0      5.70     12.10     99.00     99.00
11 11  2 22     15.0 1   140.0      5.70     11.60     99.00     99.00
11 11  2 23     15.0 1   155.0      4.60     11.60     99.00     99.00
11 11  2 24     15.0 1   170.0      3.60     11.80     99.00     99.00
11 11  3  1     15.0 1   192.0      2.10     11.60     99.00     99.00
11 11  3  2     15.0 1   218.0      0.50     11.40     99.00     99.00
11 11  3  3     15.0 1    38.0      0.50     11.00     99.00     99.00
11 11  3  4     15.0 1    36.0      0.50     10.60     99.00     99.00
11 11  3  5     15.0 1    52.0      1.00     10.30     99.00     99.00
11 11  3  6     15.0 1    14.0      1.00      9.60     99.00     99.00
11 11  3  7     15.0 1   348.0      2.10      8.40     99.00     99.00
11 11  3  8     15.0 1   340.0      2.60      8.00     99.00     99.00
11 11  3  9     15.0 1   340.0      1.50     10.10     99.00     99.00
11 11  3 10     15.0 1   354.0      1.50     13.80     99.00     99.00
11 11  3 11     15.0 1     1.0      1.50     15.50     99.00     99.00
11 11  3 12     15.0 1   350.0      2.10     17.10     99.00     99.00
11 11  3 13     15.0 1   353.0      2.60     18.10     99.00     99.00
11 11  3 14     15.0 1     5.0      3.10     18.90     99.00     99.00
11 11  3 15     15.0 1     0.0      0.00     19.10     99.00     99.00
11 11  3 16     15.0 1     0.0      0.00     18.60     99.00     99.00
11 11  3 17     15.0 1     0.0      0.00     17.80     99.00     99.00
11 11  3 18     15.0 1   354.0      2.10     16.90     99.00     99.00
11 11  3 19     15.0 1   334.0      1.50     15.90     99.00     99.00
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11 11  3 20    15.0 1   350.0     1.00    14.60    99.00    99.00
11 11  3 21    15.0 1     0.0     0.00    13.60    99.00    99.00
11 11  3 22    15.0 1   156.0     0.50    13.10    99.00    99.00
11 11  3 23    15.0 1   207.0     0.50    12.80    99.00    99.00
11 11  3 24    15.0 1   214.0     0.50    12.60    99.00    99.00
11 11  4  1    15.0 1   249.0     1.00    12.50    99.00    99.00
11 11  4  2    15.0 1   273.0     2.10    12.40    99.00    99.00
11 11  4  3    15.0 1   278.0     3.60    11.50    99.00    99.00
11 11  4  4    15.0 1   292.0     3.10    10.50    99.00    99.00
11 11  4  5    15.0 1   300.0     1.50    10.00    99.00    99.00
11 11  4  6    15.0 1     0.0     0.00     9.90    99.00    99.00
11 11  4  7    15.0 1    85.0     0.50     9.90    99.00    99.00
11 11  4  8    15.0 1   140.0     1.00     9.90    99.00    99.00
11 11  4  9    15.0 1   292.0     2.10    10.10    99.00    99.00
11 11  4 10    15.0 1   316.0     5.70    10.10    99.00    99.00
11 11  4 11    15.0 1   335.0     3.60    11.10    99.00    99.00
11 11  4 12    15.0 1   316.0     4.60    12.10    99.00    99.00
11 11  4 13    15.0 1   342.0     5.10    12.60    99.00    99.00
11 11  4 14    15.0 1   354.0     6.20    12.50    99.00    99.00
11 11  4 15    15.0 1   350.0     5.70    12.80    99.00    99.00
11 11  4 16    15.0 1   344.0     3.60    12.90    99.00    99.00
11 11  4 17    15.0 1   315.0     3.10    12.60    99.00    99.00
11 11  4 18    15.0 1   305.0     4.60    11.40    99.00    99.00
11 11  4 19    15.0 1   306.0     4.60    10.10    99.00    99.00
11 11  4 20    15.0 1   316.0     4.10     9.10    99.00    99.00
11 11  4 21    15.0 1   308.0     4.10     8.60    99.00    99.00
11 11  4 22    15.0 1   307.0     3.60     8.10    99.00    99.00
11 11  4 23    15.0 1   297.0     3.10     7.60    99.00    99.00
11 11  4 24    15.0 1   288.0     3.10     7.10    99.00    99.00
11 11  5  1    15.0 1   289.0     3.10     6.60    99.00    99.00
11 11  5  2    15.0 1   290.0     3.10     6.30    99.00    99.00
11 11  5  3    15.0 1   289.0     3.10     5.90    99.00    99.00
11 11  5  4    15.0 1   290.0     3.10     5.40    99.00    99.00
11 11  5  5    15.0 1   277.0     2.60     4.90    99.00    99.00
11 11  5  6    15.0 1   271.0     2.10     4.50    99.00    99.00
11 11  5  7    15.0 1   249.0     2.10     4.10    99.00    99.00
11 11  5  8    15.0 1   257.0     2.10     4.10    99.00    99.00
11 11  5  9    15.0 1   325.0     2.10     6.10    99.00    99.00
11 11  5 10    15.0 1   310.0     1.00     7.50    99.00    99.00
11 11  5 11    15.0 1   282.0     0.50     8.60    99.00    99.00
11 11  5 12    15.0 1   275.0     0.50     9.80    99.00    99.00
11 11  5 13    15.0 1   269.0     1.00    10.90    99.00    99.00
11 11  5 14    15.0 1   276.0     1.00    11.60    99.00    99.00
11 11  5 15    15.0 1   300.0     1.00    12.10    99.00    99.00
11 11  5 16    15.0 1   338.0     1.00    12.10    99.00    99.00
11 11  5 17    15.0 1    58.0     1.00    11.80    99.00    99.00
11 11  5 18    15.0 1    94.0     2.10    10.90    99.00    99.00
11 11  5 19    15.0 1   126.0     3.10     9.80    99.00    99.00
11 11  5 20    15.0 1   149.0     4.10     8.10    99.00    99.00
11 11  5 21    15.0 1   146.0     3.60     7.30    99.00    99.00
11 11  5 22    15.0 1   127.0     4.10     6.80    99.00    99.00
11 11  5 23    15.0 1   128.0     4.10     6.50    99.00    99.00
11 11  5 24    15.0 1   129.0     4.10     6.60    99.00    99.00
11 11  6  1    15.0 1   142.0     3.60     7.00    99.00    99.00
11 11  6  2    15.0 1   161.0     2.10     7.30    99.00    99.00
11 11  6  3    15.0 1   180.0     0.50     7.10    99.00    99.00
11 11  6  4    15.0 1    74.0     1.00     6.60    99.00    99.00
11 11  6  5    15.0 1   105.0     2.10     6.60    99.00    99.00
11 11  6  6    15.0 1   112.0     2.60     6.80    99.00    99.00
11 11  6  7    15.0 1   137.0     2.60     6.90    99.00    99.00
11 11  6  8    15.0 1   152.0     2.60     7.10    99.00    99.00
11 11  6  9    15.0 1   158.0     2.60     8.10    99.00    99.00
11 11  6 10    15.0 1   154.0     1.50     9.40    99.00    99.00
11 11  6 11    15.0 1     0.0     0.00    10.60    99.00    99.00
11 11  6 12    15.0 1   353.0     0.50    11.60    99.00    99.00
11 11  6 13    15.0 1   347.0     2.10    12.40    99.00    99.00
11 11  6 14    15.0 1   347.0     3.10    12.80    99.00    99.00
11 11  6 15    15.0 1   355.0     4.10    13.10    99.00    99.00
11 11  6 16    15.0 1     4.0     3.60    14.00    99.00    99.00
11 11  6 17    15.0 1   309.0     3.60    13.00    99.00    99.00
11 11  6 18    15.0 1   286.0     4.10    11.90    99.00    99.00
11 11  6 19    15.0 1   305.0     3.60    11.10    99.00    99.00
11 11  6 20    15.0 1   317.0     3.10    10.50    99.00    99.00
11 11  6 21    15.0 1   330.0     2.60     9.90    99.00    99.00
11 11  6 22    15.0 1   335.0     2.10     9.40    99.00    99.00
11 11  6 23    15.0 1   321.0     2.10     8.90    99.00    99.00
11 11  6 24    15.0 1   313.0     2.10     8.40    99.00    99.00
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11 11   7   1     15.0 1   300.0     1.50     8.10    99.00    99.00
11 11   7   2     15.0 1   307.0     2.10     7.80    99.00    99.00
11 11   7   3     15.0 1   320.0     2.60     7.30    99.00    99.00
11 11   7   4     15.0 1   320.0     3.10     7.00    99.00    99.00
11 11   7   5     15.0 1   319.0     3.10     6.40    99.00    99.00
11 11   7   6     15.0 1   321.0     3.60     5.30    99.00    99.00
11 11   7   7     15.0 1   329.0     3.10     4.60    99.00    99.00
11 11   7   8     15.0 1   327.0     3.60     5.10    99.00    99.00
11 11   7   9     15.0 1   345.0     4.60     7.10    99.00    99.00
11 11   7  10     15.0 1   339.0     3.60     8.10    99.00    99.00
11 11   7  11     15.0 1   336.0     2.60     9.10    99.00    99.00
11 11   7  12     15.0 1   344.0     1.50    10.10    99.00    99.00
11 11   7  13     15.0 1   330.0     1.00    11.10    99.00    99.00
11 11   7  14     15.0 1   319.0     0.50    11.90    99.00    99.00
11 11   7  15     15.0 1   320.0     0.50    12.10    99.00    99.00
11 11   7  16     15.0 1     0.0     0.00    12.10    99.00    99.00
11 11   7  17     15.0 1     0.0     0.00    11.90    99.00    99.00
11 11   7  18     15.0 1     0.0     0.00    10.90    99.00    99.00
11 11   7  19     15.0 1   154.0     1.00     9.90    99.00    99.00
11 11   7  20     15.0 1   151.0     1.50     8.80    99.00    99.00
11 11   7  21     15.0 1   147.0     2.10     7.90    99.00    99.00
11 11   7  22     15.0 1   137.0     2.10     7.10    99.00    99.00
11 11   7  23     15.0 1   127.0     2.10     6.40    99.00    99.00
11 11   7  24     15.0 1   120.0     1.00     5.80    99.00    99.00
11 11   8   1     15.0 1     0.0     0.00     5.10    99.00    99.00
11 11   8   2     15.0 1   319.0     0.50     4.80    99.00    99.00
11 11   8   3     15.0 1   277.0     0.50     4.40    99.00    99.00
11 11   8   4     15.0 1   268.0     1.50     4.00    99.00    99.00
11 11   8   5     15.0 1   279.0     2.60     3.60    99.00    99.00
11 11   8   6     15.0 1   292.0     2.10     3.30    99.00    99.00
11 11   8   7     15.0 1   287.0     1.50     3.00    99.00    99.00
11 11   8   8     15.0 1   273.0     1.00     3.10    99.00    99.00
11 11   8   9     15.0 1   318.0     0.50     5.10    99.00    99.00
11 11   8  10     15.0 1     0.0     0.00     7.00    99.00    99.00
11 11   8  11     15.0 1     0.0     0.00     8.90    99.00    99.00
11 11   8  12     15.0 1     0.0     0.00    10.10    99.00    99.00
11 11   8  13     15.0 1   319.0     0.50    11.50    99.00    99.00
11 11   8  14     15.0 1   327.0     1.00    12.60    99.00    99.00
11 11   8  15     15.0 1   343.0     1.50    13.10    99.00    99.00
11 11   8  16     15.0 1   358.0     2.60    13.00    99.00    99.00
11 11   8  17     15.0 1     8.0     2.60    12.40    99.00    99.00
11 11   8  18     15.0 1    32.0     1.50    11.30    99.00    99.00
11 11   8  19     15.0 1    62.0     0.50    10.10    99.00    99.00
11 11   8  20     15.0 1     0.0     0.00     8.90    99.00    99.00
11 11   8  21     15.0 1     0.0     0.00     7.80    99.00    99.00
11 11   8  22     15.0 1     0.0     0.00     7.00    99.00    99.00
11 11   8  23     15.0 1     0.0     0.00     6.10    99.00    99.00
11 11   8  24     15.0 1     0.0     0.00     5.60    99.00    99.00
11 11   9   1     15.0 1    60.0     0.50     5.10    99.00    99.00
11 11   9   2     15.0 1    22.0     0.50     4.60    99.00    99.00
11 11   9   3     15.0 1   354.0     1.00     4.40    99.00    99.00
11 11   9   4     15.0 1   345.0     1.00     4.00    99.00    99.00
11 11   9   5     15.0 1   331.0     1.50     3.80    99.00    99.00
11 11   9   6     15.0 1   335.0     2.10     3.50    99.00    99.00
11 11   9   7     15.0 1   326.0     1.50     3.30    99.00    99.00
11 11   9   8     15.0 1   321.0     1.00     3.10    99.00    99.00
11 11   9   9     15.0 1   324.0     1.50     5.90    99.00    99.00
11 11   9  10     15.0 1   302.0     1.50     7.60    99.00    99.00
11 11   9  11     15.0 1   321.0     1.00     9.90    99.00    99.00
11 11   9  12     15.0 1   338.0     1.00    11.90    99.00    99.00
11 11   9  13     15.0 1   353.0     1.00    13.80    99.00    99.00
11 11   9  14     15.0 1     2.0     1.50    15.00    99.00    99.00
11 11   9  15     15.0 1     0.0     0.00    15.10    99.00    99.00
11 11   9  16     15.0 1    10.0     3.10    14.30    99.00    99.00
11 11   9  17     15.0 1    26.0     3.60    13.10    99.00    99.00
11 11   9  18     15.0 1    41.0     2.10    12.40    99.00    99.00
11 11   9  19     15.0 1    51.0     1.50    11.90    99.00    99.00
11 11   9  20     15.0 1   100.0     1.50    11.60    99.00    99.00
11 11   9  21     15.0 1    88.0     2.10    11.30    99.00    99.00
11 11   9  22     15.0 1    60.0     2.60    10.60    99.00    99.00
11 11   9  23     15.0 1    37.0     3.10    10.10    99.00    99.00
11 11   9  24     15.0 1    30.0     2.10    10.10    99.00    99.00
11 11  10   1     15.0 1    42.0     1.50    10.30    99.00    99.00
11 11  10   2     15.0 1    15.0     2.10     9.60    99.00    99.00
11 11  10   3     15.0 1     8.0     3.10     9.10    99.00    99.00
11 11  10   4     15.0 1     0.0     0.00     8.60    99.00    99.00
11 11  10   5     15.0 1    14.0     4.60     8.00    99.00    99.00
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11 11 10  6    15.0 1    16.0     4.10     7.60    99.00    99.00
11 11 10  7    15.0 1    23.0     3.60     7.60    99.00    99.00
11 11 10  8    15.0 1     6.0     3.10     7.60    99.00    99.00
11 11 10  9    15.0 1     3.0     2.60     8.10    99.00    99.00
11 11 10 10    15.0 1     4.0     2.60     9.90    99.00    99.00
11 11 10 11    15.0 1   352.0     2.10    12.00    99.00    99.00
11 11 10 12    15.0 1   356.0     2.10    13.30    99.00    99.00
11 11 10 13    15.0 1     0.0     0.00    14.10    99.00    99.00
11 11 10 14    15.0 1    12.0     2.60    14.50    99.00    99.00
11 11 10 15    15.0 1     6.0     3.10    14.10    99.00    99.00
11 11 10 16    15.0 1    20.0     3.10    13.40    99.00    99.00
11 11 10 17    15.0 1    35.0     3.10    12.60    99.00    99.00
11 11 10 18    15.0 1    31.0     3.10    12.40    99.00    99.00
11 11 10 19    15.0 1    14.0     2.60    12.60    99.00    99.00
11 11 10 20    15.0 1    68.0     0.50    13.90    99.00    99.00
11 11 10 21    15.0 1    46.0     0.50    14.00    99.00    99.00
11 11 10 22    15.0 1    36.0     0.50    14.00    99.00    99.00
11 11 10 23    15.0 1    24.0     1.00    13.60    99.00    99.00
11 11 10 24    15.0 1     8.0     1.00    13.30    99.00    99.00
11 11 11  1    15.0 1    11.0     1.00    13.10    99.00    99.00
11 11 11  2    15.0 1    12.0     1.50    13.00    99.00    99.00
11 11 11  3    15.0 1    11.0     1.00    13.00    99.00    99.00
11 11 11  4    15.0 1   331.0     1.50    12.50    99.00    99.00
11 11 11  5    15.0 1   348.0     3.10    11.60    99.00    99.00
11 11 11  6    15.0 1     0.0     0.00    11.30    99.00    99.00
11 11 11  7    15.0 1   357.0     3.10    11.00    99.00    99.00
11 11 11  8    15.0 1    10.0     1.00    11.50    99.00    99.00
11 11 11  9    15.0 1    61.0     0.50    11.80    99.00    99.00
11 11 11 10    15.0 1   102.0     1.00    12.40    99.00    99.00
11 11 11 11    15.0 1   113.0     2.10    13.30    99.00    99.00
11 11 11 12    15.0 1   120.0     5.10    15.10    99.00    99.00
11 11 11 13    15.0 1   126.0     5.70    17.10    99.00    99.00
11 11 11 14    15.0 1   127.0     5.10    18.10    99.00    99.00
11 11 11 15    15.0 1   134.0     5.10    18.10    99.00    99.00
11 11 11 16    15.0 1   126.0     7.20    17.60    99.00    99.00
11 11 11 17    15.0 1   138.0     9.30    16.00    99.00    99.00
11 11 11 18    15.0 1   141.0     8.20    15.30    99.00    99.00
11 11 11 19    15.0 1   136.0     6.70    14.90    99.00    99.00
11 11 11 20    15.0 1   136.0     6.70    14.60    99.00    99.00
11 11 11 21    15.0 1   138.0     6.20    14.30    99.00    99.00
11 11 11 22    15.0 1   141.0     4.60    14.00    99.00    99.00
11 11 11 23    15.0 1   136.0     3.10    14.00    99.00    99.00
11 11 11 24    15.0 1   136.0     2.60    13.90    99.00    99.00
11 11 12  1    15.0 1   147.0     2.60    13.90    99.00    99.00
11 11 12  2    15.0 1   150.0     3.10    13.90    99.00    99.00
11 11 12  3    15.0 1   167.0     2.10    13.90    99.00    99.00
11 11 12  4    15.0 1   244.0     1.00    13.80    99.00    99.00
11 11 12  5    15.0 1   282.0     1.00    13.60    99.00    99.00
11 11 12  6    15.0 1   307.0     1.00    13.60    99.00    99.00
11 11 12  7    15.0 1   326.0     2.10    13.50    99.00    99.00
11 11 12  8    15.0 1   349.0     2.60    13.50    99.00    99.00
11 11 12  9    15.0 1   349.0     1.50    14.60    99.00    99.00
11 11 12 10    15.0 1   334.0     2.10    16.00    99.00    99.00
11 11 12 11    15.0 1   344.0     2.60    16.80    99.00    99.00
11 11 12 12    15.0 1   336.0     2.60    17.30    99.00    99.00
11 11 12 13    15.0 1   298.0     1.50    18.10    99.00    99.00
11 11 12 14    15.0 1   315.0     2.60    18.60    99.00    99.00
11 11 12 15    15.0 1   331.0     3.60    18.60    99.00    99.00
11 11 12 16    15.0 1   342.0     3.10    18.40    99.00    99.00
11 11 12 17    15.0 1   351.0     4.10    17.30    99.00    99.00
11 11 12 18    15.0 1   348.0     4.10    15.80    99.00    99.00
11 11 12 19    15.0 1   338.0     3.60    15.10    99.00    99.00
11 11 12 20    15.0 1   330.0     3.60    14.40    99.00    99.00
11 11 12 21    15.0 1   327.0     3.60    13.60    99.00    99.00
11 11 12 22    15.0 1   341.0     3.10    12.90    99.00    99.00
11 11 12 23    15.0 1   328.0     3.10    12.30    99.00    99.00
11 11 12 24    15.0 1   328.0     3.10    11.60    99.00    99.00
11 11 13  1    15.0 1   317.0     3.10    11.10    99.00    99.00
11 11 13  2    15.0 1   312.0     3.10    10.60    99.00    99.00
11 11 13  3    15.0 1   305.0     2.60    10.50    99.00    99.00
11 11 13  4    15.0 1   281.0     2.10    10.50    99.00    99.00
11 11 13  5    15.0 1   278.0     1.50    10.60    99.00    99.00
11 11 13  6    15.0 1   244.0     1.00    10.80    99.00    99.00
11 11 13  7    15.0 1   233.0     1.00    10.90    99.00    99.00
11 11 13  8    15.0 1   254.0     1.00    10.90    99.00    99.00
11 11 13  9    15.0 1   313.0     1.00    11.60    99.00    99.00
11 11 13 10    15.0 1     0.0     0.00    13.10    99.00    99.00
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11 11 13 11    15.0 1     0.0     0.00    14.40    99.00    99.00
11 11 13 12    15.0 1     0.0     0.00    15.60    99.00    99.00
11 11 13 13    15.0 1   293.0     1.00    16.40    99.00    99.00
11 11 13 14    15.0 1   301.0     1.50    17.00    99.00    99.00
11 11 13 15    15.0 1   325.0     2.10    17.30    99.00    99.00
11 11 13 16    15.0 1   344.0     2.10    17.30    99.00    99.00
11 11 13 17    15.0 1   360.0     2.10    16.90    99.00    99.00
11 11 13 18    15.0 1     7.0     2.10    16.00    99.00    99.00
11 11 13 19    15.0 1    13.0     1.00    15.00    99.00    99.00
11 11 13 20    15.0 1   317.0     0.50    14.00    99.00    99.00
11 11 13 21    15.0 1   299.0     0.50    13.10    99.00    99.00
11 11 13 22    15.0 1   312.0     1.00    12.40    99.00    99.00
11 11 13 23    15.0 1   314.0     2.10    11.80    99.00    99.00
11 11 13 24    15.0 1   308.0     2.60    11.10    99.00    99.00
11 11 14  1    15.0 1   325.0     3.10    10.50    99.00    99.00
11 11 14  2    15.0 1   332.0     3.10     9.80    99.00    99.00
11 11 14  3    15.0 1   327.0     2.10     9.30    99.00    99.00
11 11 14  4    15.0 1   343.0     1.50     8.80    99.00    99.00
11 11 14  5    15.0 1   360.0     1.00     7.90    99.00    99.00
11 11 14  6    15.0 1    18.0     1.00     7.90    99.00    99.00
11 11 14  7    15.0 1    22.0     0.50     7.90    99.00    99.00
11 11 14  8    15.0 1     0.0     0.00     7.60    99.00    99.00
11 11 14  9    15.0 1     0.0     0.00     7.90    99.00    99.00
11 11 14 10    15.0 1   292.0     0.50     8.10    99.00    99.00
11 11 14 11    15.0 1   302.0     1.00     8.40    99.00    99.00
11 11 14 12    15.0 1   319.0     1.00     8.80    99.00    99.00
11 11 14 13    15.0 1   354.0     1.00     9.50    99.00    99.00
11 11 14 14    15.0 1    20.0     1.50    10.80    99.00    99.00
11 11 14 15    15.0 1    38.0     1.50    11.80    99.00    99.00
11 11 14 16    15.0 1    43.0     2.10    12.10    99.00    99.00
11 11 14 17    15.0 1    62.0     2.60    11.60    99.00    99.00
11 11 14 18    15.0 1    71.0     2.10    10.80    99.00    99.00
11 11 14 19    15.0 1   104.0     0.50    10.10    99.00    99.00
11 11 14 20    15.0 1     0.0     0.00     9.60    99.00    99.00
11 11 14 21    15.0 1     0.0     0.00     9.10    99.00    99.00
11 11 14 22    15.0 1     0.0     0.00     8.30    99.00    99.00
11 11 14 23    15.0 1     0.0     0.00     6.40    99.00    99.00
11 11 14 24    15.0 1    98.0     0.50     6.10    99.00    99.00
11 11 15  1    15.0 1   114.0     0.50     6.10    99.00    99.00
11 11 15  2    15.0 1   108.0     0.50     6.00    99.00    99.00
11 11 15  3    15.0 1   132.0     0.50     6.60    99.00    99.00
11 11 15  4    15.0 1   161.0     1.00     7.00    99.00    99.00
11 11 15  5    15.0 1   193.0     1.00     7.30    99.00    99.00
11 11 15  6    15.0 1   227.0     1.00     7.50    99.00    99.00
11 11 15  7    15.0 1   275.0     1.50     7.60    99.00    99.00
11 11 15  8    15.0 1   282.0     1.50     7.60    99.00    99.00
11 11 15  9    15.0 1   286.0     1.50     7.60    99.00    99.00
11 11 15 10    15.0 1   314.0     1.00     7.80    99.00    99.00
11 11 15 11    15.0 1   358.0     0.50     8.30    99.00    99.00
11 11 15 12    15.0 1    36.0     0.50     9.30    99.00    99.00
11 11 15 13    15.0 1    17.0     0.50    10.80    99.00    99.00
11 11 15 14    15.0 1    14.0     0.50    12.40    99.00    99.00
11 11 15 15    15.0 1     9.0     1.00    13.10    99.00    99.00
11 11 15 16    15.0 1    16.0     2.10    13.00    99.00    99.00
11 11 15 17    15.0 1    28.0     2.60    12.10    99.00    99.00
11 11 15 18    15.0 1    39.0     2.10    10.90    99.00    99.00
11 11 15 19    15.0 1    46.0     1.00    10.10    99.00    99.00
11 11 15 20    15.0 1     0.0     0.00     9.60    99.00    99.00
11 11 15 21    15.0 1     0.0     0.00     9.10    99.00    99.00
11 11 15 22    15.0 1     0.0     0.00     8.50    99.00    99.00
11 11 15 23    15.0 1     0.0     0.00     7.10    99.00    99.00
11 11 15 24    15.0 1     0.0     0.00     6.00    99.00    99.00
11 11 16  1    15.0 1     0.0     0.00     5.90    99.00    99.00
11 11 16  2    15.0 1     0.0     0.00     5.60    99.00    99.00
11 11 16  3    15.0 1     0.0     0.00     5.60    99.00    99.00
11 11 16  4    15.0 1     0.0     0.00     5.60    99.00    99.00
11 11 16  5    15.0 1   317.0     0.50     5.80    99.00    99.00
11 11 16  6    15.0 1   306.0     0.50     6.40    99.00    99.00
11 11 16  7    15.0 1   309.0     1.00     6.50    99.00    99.00
11 11 16  8    15.0 1   296.0     1.50     6.50    99.00    99.00
11 11 16  9    15.0 1   300.0     1.50     6.80    99.00    99.00
11 11 16 10    15.0 1   304.0     0.50     7.10    99.00    99.00
11 11 16 11    15.0 1     0.0     0.00     7.30    99.00    99.00
11 11 16 12    15.0 1     0.0     0.00     7.80    99.00    99.00
11 11 16 13    15.0 1    64.0     0.50     8.60    99.00    99.00
11 11 16 14    15.0 1    39.0     1.00    10.40    99.00    99.00
11 11 16 15    15.0 1    26.0     1.00    11.90    99.00    99.00
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11 11 16 16    15.0 1   336.0     1.50    17.50    99.00    99.00
11 11 16 17    15.0 1   348.0     1.00    16.90    99.00    99.00
11 11 16 18    15.0 1     0.0     0.00    15.80    99.00    99.00
11 11 16 19    15.0 1     0.0     0.00    14.60    99.00    99.00
11 11 16 20    15.0 1     0.0     0.00    13.50    99.00    99.00
11 11 16 21    15.0 1     0.0     0.00    12.60    99.00    99.00
11 11 16 22    15.0 1     0.0     0.00    11.80    99.00    99.00
11 11 16 23    15.0 1     0.0     0.00    11.10    99.00    99.00
11 11 16 24    15.0 1     0.0     0.00    10.60    99.00    99.00
11 11 17  1    15.0 1   302.0     0.50    10.30    99.00    99.00
11 11 17  2    15.0 1   325.0     0.50     9.90    99.00    99.00
11 11 17  3    15.0 1   333.0     0.50     9.50    99.00    99.00
11 11 17  4    15.0 1   325.0     0.50     9.10    99.00    99.00
11 11 17  5    15.0 1     0.0     0.00     8.60    99.00    99.00
11 11 17  6    15.0 1   333.0     0.50     7.80    99.00    99.00
11 11 17  7    15.0 1   336.0     1.00     7.60    99.00    99.00
11 11 17  8    15.0 1   336.0     2.10     7.60    99.00    99.00
11 11 17  9    15.0 1   355.0     2.60     7.60    99.00    99.00
11 11 17 10    15.0 1   336.0     1.50     7.80    99.00    99.00
11 11 17 11    15.0 1   341.0     0.50     8.10    99.00    99.00
11 11 17 12    15.0 1     0.0     0.00     8.30    99.00    99.00
11 11 17 13    15.0 1   273.0     0.50     8.90    99.00    99.00
11 11 17 14    15.0 1   326.0     0.50    10.10    99.00    99.00
11 11 17 15    15.0 1     0.0     0.00    11.50    99.00    99.00
11 11 17 16    15.0 1    10.0     1.00    12.00    99.00    99.00
11 11 17 17    15.0 1    18.0     1.50    11.60    99.00    99.00
11 11 17 18    15.0 1    34.0     1.00    10.80    99.00    99.00
11 11 17 19    15.0 1   348.0     0.50    10.00    99.00    99.00
11 11 17 20    15.0 1   307.0     0.50     9.30    99.00    99.00
11 11 17 21    15.0 1   323.0     0.50     8.60    99.00    99.00
11 11 17 22    15.0 1     0.0     0.00     6.60    99.00    99.00
11 11 17 23    15.0 1     0.0     0.00     6.40    99.00    99.00
11 11 17 24    15.0 1    13.0     0.50     6.60    99.00    99.00
11 11 18  1    15.0 1     0.0     0.00     6.60    99.00    99.00
11 11 18  2    15.0 1     0.0     0.00     6.60    99.00    99.00
11 11 18  3    15.0 1     0.0     0.00     7.10    99.00    99.00
11 11 18  4    15.0 1     0.0     0.00     7.60    99.00    99.00
11 11 18  5    15.0 1     0.0     0.00     8.00    99.00    99.00
11 11 18  6    15.0 1     0.0     0.00     8.30    99.00    99.00
11 11 18  7    15.0 1     0.0     0.00     8.50    99.00    99.00
11 11 18  8    15.0 1     0.0     0.00     8.60    99.00    99.00
11 11 18  9    15.0 1   114.0     0.50     9.00    99.00    99.00
11 11 18 10    15.0 1   123.0     1.50     9.60    99.00    99.00
11 11 18 11    15.0 1   135.0     2.10    10.30    99.00    99.00
11 11 18 12    15.0 1   130.0     2.10    10.80    99.00    99.00
11 11 18 13    15.0 1   158.0     1.50    11.10    99.00    99.00
11 11 18 14    15.0 1   178.0     1.00    11.30    99.00    99.00
11 11 18 15    15.0 1     0.0     0.00    11.40    99.00    99.00
11 11 18 16    15.0 1   317.0     1.00    11.40    99.00    99.00
11 11 18 17    15.0 1   307.0     1.50    11.10    99.00    99.00
11 11 18 18    15.0 1   315.0     1.50    11.00    99.00    99.00
11 11 18 19    15.0 1   306.0     2.10    10.80    99.00    99.00
11 11 18 20    15.0 1   302.0     1.50    10.60    99.00    99.00
11 11 18 21    15.0 1   283.0     1.50    10.40    99.00    99.00
11 11 18 22    15.0 1   268.0     1.50    10.30    99.00    99.00
11 11 18 23    15.0 1   273.0     1.00    10.10    99.00    99.00
11 11 18 24    15.0 1   265.0     0.50    10.00    99.00    99.00
11 11 19  1    15.0 1     0.0     0.00     9.90    99.00    99.00
11 11 19  2    15.0 1   257.0     0.50     9.80    99.00    99.00
11 11 19  3    15.0 1   266.0     0.50     9.60    99.00    99.00
11 11 19  4    15.0 1   275.0     0.50     9.50    99.00    99.00
11 11 19  5    15.0 1   282.0     1.00     9.10    99.00    99.00
11 11 19  6    15.0 1   278.0     1.00     8.60    99.00    99.00
11 11 19  7    15.0 1   257.0     1.00     8.40    99.00    99.00
11 11 19  8    15.0 1   229.0     1.00     8.10    99.00    99.00
11 11 19  9    15.0 1   214.0     1.00     8.50    99.00    99.00
11 11 19 10    15.0 1   186.0     0.50     9.40    99.00    99.00
11 11 19 11    15.0 1   195.0     0.50    10.10    99.00    99.00
11 11 19 12    15.0 1   213.0     0.50    11.00    99.00    99.00
11 11 19 13    15.0 1     0.0     0.00    11.80    99.00    99.00
11 11 19 14    15.0 1     0.0     0.00    12.50    99.00    99.00
11 11 19 15    15.0 1    45.0     0.50    12.80    99.00    99.00
11 11 19 16    15.0 1    62.0     1.50    12.80    99.00    99.00
11 11 19 17    15.0 1    76.0     2.60    12.40    99.00    99.00
11 11 19 18    15.0 1   102.0     3.10    11.90    99.00    99.00
11 11 19 19    15.0 1   145.0     3.10    11.50    99.00    99.00
11 11 19 20    15.0 1   154.0     4.10    11.10    99.00    99.00
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11 11 19 21    15.0 1   146.0     5.10    10.60    99.00    99.00
11 11 19 22    15.0 1   144.0     5.10    10.40    99.00    99.00
11 11 19 23    15.0 1   142.0     5.10    10.30    99.00    99.00
11 11 19 24    15.0 1   128.0     5.70    10.10    99.00    99.00
11 11 20  1    15.0 1   126.0     5.70    10.10    99.00    99.00
11 11 20  2    15.0 1   129.0     6.20    10.10    99.00    99.00
11 11 20  3    15.0 1   132.0     6.20    10.30    99.00    99.00
11 11 20  4    15.0 1   132.0     6.20    10.40    99.00    99.00
11 11 20  5    15.0 1   129.0     6.20    10.50    99.00    99.00
11 11 20  6    15.0 1   126.0     6.70    10.60    99.00    99.00
11 11 20  7    15.0 1   129.0     6.70    10.90    99.00    99.00
11 11 20  8    15.0 1   128.0     6.20    11.10    99.00    99.00
11 11 20  9    15.0 1   130.0     6.20    11.60    99.00    99.00
11 11 20 10    15.0 1   135.0     6.20    12.60    99.00    99.00
11 11 20 11    15.0 1   132.0     6.20    13.90    99.00    99.00
11 11 20 12    15.0 1   152.0     6.20    15.60    99.00    99.00
11 11 20 13    15.0 1   175.0     6.20    17.10    99.00    99.00
11 11 20 14    15.0 1   186.0     4.10    17.10    99.00    99.00
11 11 20 15    15.0 1   334.0     5.70    14.60    99.00    99.00
11 11 20 16    15.0 1   355.0     6.70    11.60    99.00    99.00
11 11 20 17    15.0 1    13.0     5.10    11.00    99.00    99.00
11 11 20 18    15.0 1    27.0     4.60    11.00    99.00    99.00
11 11 20 19    15.0 1    45.0     4.10    10.90    99.00    99.00
11 11 20 20    15.0 1    42.0     3.60    10.60    99.00    99.00
11 11 20 21    15.0 1    39.0     3.60    10.00    99.00    99.00
11 11 20 22    15.0 1    42.0     2.60     9.60    99.00    99.00
11 11 20 23    15.0 1    24.0     1.50     9.40    99.00    99.00
11 11 20 24    15.0 1   307.0     0.50     9.10    99.00    99.00
11 11 21  1    15.0 1   238.0     2.10     8.60    99.00    99.00
11 11 21  2    15.0 1   253.0     1.50     7.10    99.00    99.00
11 11 21  3    15.0 1    40.0     0.50     6.60    99.00    99.00
11 11 21  4    15.0 1     0.0     0.00     6.30    99.00    99.00
11 11 21  5    15.0 1   298.0     0.50     6.50    99.00    99.00
11 11 21  6    15.0 1   307.0     2.60     6.80    99.00    99.00
11 11 21  7    15.0 1   314.0     3.60     7.00    99.00    99.00
11 11 21  8    15.0 1   299.0     3.10     7.00    99.00    99.00
11 11 21  9    15.0 1   294.0     2.60     7.10    99.00    99.00
11 11 21 10    15.0 1   288.0     1.00     7.80    99.00    99.00
11 11 21 11    15.0 1     0.0     0.00     8.60    99.00    99.00
11 11 21 12    15.0 1   136.0     0.50     9.60    99.00    99.00
11 11 21 13    15.0 1   144.0     1.00    10.60    99.00    99.00
11 11 21 14    15.0 1   149.0     1.00    11.60    99.00    99.00
11 11 21 15    15.0 1   155.0     1.00    12.10    99.00    99.00
11 11 21 16    15.0 1    42.0     0.50    10.90    99.00    99.00
11 11 21 17    15.0 1    82.0     1.00    10.50    99.00    99.00
11 11 21 18    15.0 1   102.0     2.10     9.60    99.00    99.00
11 11 21 19    15.0 1   128.0     2.10     8.90    99.00    99.00
11 11 21 20    15.0 1   161.0     2.10     8.10    99.00    99.00
11 11 21 21    15.0 1   159.0     1.50     7.60    99.00    99.00
11 11 21 22    15.0 1   142.0     1.00     6.90    99.00    99.00
11 11 21 23    15.0 1   107.0     1.00     5.10    99.00    99.00
11 11 21 24    15.0 1     0.0     0.00     3.60    99.00    99.00
11 11 22  1    15.0 1     0.0     0.00     3.50    99.00    99.00
11 11 22  2    15.0 1     0.0     0.00     2.90    99.00    99.00
11 11 22  3    15.0 1     0.0     0.00     2.50    99.00    99.00
11 11 22  4    15.0 1     0.0     0.00     2.10    99.00    99.00
11 11 22  5    15.0 1     0.0     0.00     2.00    99.00    99.00
11 11 22  6    15.0 1     0.0     0.00     1.90    99.00    99.00
11 11 22  7    15.0 1     0.0     0.00     2.10    99.00    99.00
11 11 22  8    15.0 1     0.0     0.00     3.00    99.00    99.00
11 11 22  9    15.0 1   324.0     0.50     3.50    99.00    99.00
11 11 22 10    15.0 1   343.0     0.50     3.80    99.00    99.00
11 11 22 11    15.0 1   348.0     1.00     4.10    99.00    99.00
11 11 22 12    15.0 1     1.0     1.50     4.90    99.00    99.00
11 11 22 13    15.0 1    12.0     2.10     5.90    99.00    99.00
11 11 22 14    15.0 1    10.0     1.50     7.10    99.00    99.00
11 11 22 15    15.0 1    11.0     1.50     8.10    99.00    99.00
11 11 22 16    15.0 1   351.0     0.50     8.10    99.00    99.00
11 11 22 17    15.0 1     0.0     0.00     7.60    99.00    99.00
11 11 22 18    15.0 1     0.0     0.00     7.10    99.00    99.00
11 11 22 19    15.0 1     0.0     0.00     6.60    99.00    99.00
11 11 22 20    15.0 1     0.0     0.00     6.10    99.00    99.00
11 11 22 21    15.0 1     0.0     0.00     5.60    99.00    99.00
11 11 22 22    15.0 1    65.0     0.50     4.10    99.00    99.00
11 11 22 23    15.0 1    73.0     0.50     3.00    99.00    99.00
11 11 22 24    15.0 1     0.0     0.00     2.40    99.00    99.00
11 11 23  1    15.0 1     0.0     0.00     2.50    99.00    99.00
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11 11 23  2    15.0 1     0.0     0.00     2.30    99.00    99.00
11 11 23  3    15.0 1   105.0     0.50     2.30    99.00    99.00
11 11 23  4    15.0 1    91.0     0.50     2.50    99.00    99.00
11 11 23  5    15.0 1    60.0     0.50     2.60    99.00    99.00
11 11 23  6    15.0 1    22.0     0.50     2.80    99.00    99.00
11 11 23  7    15.0 1    21.0     1.00     2.60    99.00    99.00
11 11 23  8    15.0 1    35.0     1.00     2.60    99.00    99.00
11 11 23  9    15.0 1    41.0     1.50     3.60    99.00    99.00
11 11 23 10    15.0 1    24.0     1.50     7.40    99.00    99.00
11 11 23 11    15.0 1     6.0     2.60    10.50    99.00    99.00
11 11 23 12    15.0 1    13.0     3.10    11.90    99.00    99.00
11 11 23 13    15.0 1    24.0     3.10    12.60    99.00    99.00
11 11 23 14    15.0 1    22.0     3.10    13.00    99.00    99.00
11 11 23 15    15.0 1    32.0     3.10    12.60    99.00    99.00
11 11 23 16    15.0 1    43.0     3.10    12.00    99.00    99.00
11 11 23 17    15.0 1    38.0     3.10    11.30    99.00    99.00
11 11 23 18    15.0 1    39.0     2.60    10.90    99.00    99.00
11 11 23 19    15.0 1    45.0     2.10    10.60    99.00    99.00
11 11 23 20    15.0 1    17.0     1.50    10.40    99.00    99.00
11 11 23 21    15.0 1   343.0     1.00    10.00    99.00    99.00
11 11 23 22    15.0 1   329.0     1.50     9.60    99.00    99.00
11 11 23 23    15.0 1   336.0     1.50     9.50    99.00    99.00
11 11 23 24    15.0 1     2.0     2.10     9.40    99.00    99.00
11 11 24  1    15.0 1     9.0     2.10     9.30    99.00    99.00
11 11 24  2    15.0 1    14.0     2.10     9.10    99.00    99.00
11 11 24  3    15.0 1     6.0     2.10     9.10    99.00    99.00
11 11 24  4    15.0 1   357.0     1.50     9.10    99.00    99.00
11 11 24  5    15.0 1   341.0     1.50     9.00    99.00    99.00
11 11 24  6    15.0 1   338.0     2.10     9.10    99.00    99.00
11 11 24  7    15.0 1   336.0     2.10     9.10    99.00    99.00
11 11 24  8    15.0 1   337.0     2.10     9.30    99.00    99.00
11 11 24  9    15.0 1   350.0     2.10     9.80    99.00    99.00
11 11 24 10    15.0 1     0.0     0.00    12.60    99.00    99.00
11 11 24 11    15.0 1     1.0     2.60    14.10    99.00    99.00
11 11 24 12    15.0 1   354.0     2.60    15.50    99.00    99.00
11 11 24 13    15.0 1   349.0     2.60    16.30    99.00    99.00
11 11 24 14    15.0 1   326.0     2.60    16.60    99.00    99.00
11 11 24 15    15.0 1   317.0     2.60    16.80    99.00    99.00
11 11 24 16    15.0 1   318.0     2.60    16.60    99.00    99.00
11 11 24 17    15.0 1   322.0     4.10    15.10    99.00    99.00
11 11 24 18    15.0 1   307.0     4.10    12.90    99.00    99.00
11 11 24 19    15.0 1   307.0     3.60    12.10    99.00    99.00
11 11 24 20    15.0 1   309.0     3.10    11.60    99.00    99.00
11 11 24 21    15.0 1   326.0     3.10    11.10    99.00    99.00
11 11 24 22    15.0 1   345.0     2.10    10.80    99.00    99.00
11 11 24 23    15.0 1   335.0     1.50    10.60    99.00    99.00
11 11 24 24    15.0 1   321.0     1.00    10.30    99.00    99.00
11 11 25  1    15.0 1   335.0     1.50    10.00    99.00    99.00
11 11 25  2    15.0 1   339.0     2.10     9.90    99.00    99.00
11 11 25  3    15.0 1   340.0     1.50    10.00    99.00    99.00
11 11 25  4    15.0 1   351.0     1.50    10.00    99.00    99.00
11 11 25  5    15.0 1     0.0     0.00     9.90    99.00    99.00
11 11 25  6    15.0 1    15.0     1.50     9.80    99.00    99.00
11 11 25  7    15.0 1    11.0     1.50     9.60    99.00    99.00
11 11 25  8    15.0 1     0.0     0.00     9.60    99.00    99.00
11 11 25  9    15.0 1   347.0     1.50     9.50    99.00    99.00
11 11 25 10    15.0 1   340.0     1.50     9.40    99.00    99.00
11 11 25 11    15.0 1   331.0     2.10     9.50    99.00    99.00
11 11 25 12    15.0 1   332.0     2.60     9.60    99.00    99.00
11 11 25 13    15.0 1   344.0     1.50     9.60    99.00    99.00
11 11 25 14    15.0 1    19.0     1.50     9.60    99.00    99.00
11 11 25 15    15.0 1    43.0     1.50     9.60    99.00    99.00
11 11 25 16    15.0 1    65.0     1.00     9.60    99.00    99.00
11 11 25 17    15.0 1    68.0     0.50     9.60    99.00    99.00
11 11 25 18    15.0 1    84.0     0.50     9.60    99.00    99.00
11 11 25 19    15.0 1    70.0     0.50     9.10    99.00    99.00
11 11 25 20    15.0 1    37.0     0.50     8.60    99.00    99.00
11 11 25 21    15.0 1    45.0     1.50     8.10    99.00    99.00
11 11 25 22    15.0 1    34.0     1.50     7.10    99.00    99.00
11 11 25 23    15.0 1     7.0     1.00     7.50    99.00    99.00
11 11 25 24    15.0 1   341.0     0.50     7.40    99.00    99.00
11 11 26  1    15.0 1   306.0     0.50     7.10    99.00    99.00
11 11 26  2    15.0 1   293.0     0.50     7.00    99.00    99.00
11 11 26  3    15.0 1     0.0     0.00     6.90    99.00    99.00
11 11 26  4    15.0 1     0.0     0.00     6.60    99.00    99.00
11 11 26  5    15.0 1   277.0     0.50     6.60    99.00    99.00
11 11 26  6    15.0 1   306.0     0.50     6.60    99.00    99.00
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11 11 26  7    15.0 1   333.0     0.50     6.50    99.00    99.00
11 11 26  8    15.0 1   338.0     0.50     6.40    99.00    99.00
11 11 26  9    15.0 1   333.0     0.50     6.30    99.00    99.00
11 11 26 10    15.0 1   345.0     0.50     6.40    99.00    99.00
11 11 26 11    15.0 1     0.0     0.00     6.80    99.00    99.00
11 11 26 12    15.0 1    11.0     2.10     7.90    99.00    99.00
11 11 26 13    15.0 1    18.0     2.60     9.30    99.00    99.00
11 11 26 14    15.0 1    22.0     2.60    11.10    99.00    99.00
11 11 26 15    15.0 1    15.0     2.60    12.10    99.00    99.00
11 11 26 16    15.0 1    15.0     3.10    17.90    99.00    99.00
11 11 26 17    15.0 1    34.0     3.60    16.60    99.00    99.00
11 11 26 18    15.0 1    37.0     3.10    16.00    99.00    99.00
11 11 26 19    15.0 1    31.0     1.00    15.10    99.00    99.00
11 11 26 20    15.0 1   343.0     0.50    14.40    99.00    99.00
11 11 26 21    15.0 1    21.0     1.00    13.80    99.00    99.00
11 11 26 22    15.0 1    26.0     1.50    13.30    99.00    99.00
11 11 26 23    15.0 1    26.0     2.10    13.10    99.00    99.00
11 11 26 24    15.0 1    14.0     2.10    12.90    99.00    99.00
11 11 27  1    15.0 1   359.0     2.60    12.60    99.00    99.00
11 11 27  2    15.0 1   349.0     2.60    12.40    99.00    99.00
11 11 27  3    15.0 1   334.0     2.60    12.10    99.00    99.00
11 11 27  4    15.0 1   321.0     2.60    11.80    99.00    99.00
11 11 27  5    15.0 1   329.0     2.10    11.40    99.00    99.00
11 11 27  6    15.0 1   332.0     1.00    11.00    99.00    99.00
11 11 27  7    15.0 1   333.0     0.50    10.50    99.00    99.00
11 11 27  8    15.0 1   342.0     0.50    10.10    99.00    99.00
11 11 27  9    15.0 1   346.0     0.50    11.10    99.00    99.00
11 11 27 10    15.0 1   322.0     1.00    13.60    99.00    99.00
11 11 27 11    15.0 1   325.0     1.00    15.40    99.00    99.00
11 11 27 12    15.0 1   327.0     1.50    16.80    99.00    99.00
11 11 27 13    15.0 1   338.0     1.50    17.80    99.00    99.00
11 11 27 14    15.0 1   351.0     1.50    18.10    99.00    99.00
11 11 27 15    15.0 1   358.0     1.50    18.10    99.00    99.00
11 11 27 16    15.0 1   354.0     1.00    17.60    99.00    99.00
11 11 27 17    15.0 1     0.0     0.00    16.80    99.00    99.00
11 11 27 18    15.0 1     0.0     0.00    15.60    99.00    99.00
11 11 27 19    15.0 1     0.0     0.00    14.60    99.00    99.00
11 11 27 20    15.0 1     0.0     0.00    13.80    99.00    99.00
11 11 27 21    15.0 1     0.0     0.00    13.10    99.00    99.00
11 11 27 22    15.0 1     0.0     0.00    12.80    99.00    99.00
11 11 27 23    15.0 1    38.0     0.50    12.50    99.00    99.00
11 11 27 24    15.0 1    25.0     0.50    12.10    99.00    99.00
11 11 28  1    15.0 1   354.0     0.50    11.90    99.00    99.00
11 11 28  2    15.0 1   295.0     0.50    11.60    99.00    99.00
11 11 28  3    15.0 1   279.0     0.50    11.40    99.00    99.00
11 11 28  4    15.0 1   287.0     1.00    11.10    99.00    99.00
11 11 28  5    15.0 1   304.0     0.50    11.10    99.00    99.00
11 11 28  6    15.0 1     0.0     0.00    10.80    99.00    99.00
11 11 28  7    15.0 1     0.0     0.00    10.50    99.00    99.00
11 11 28  8    15.0 1     0.0     0.00    10.30    99.00    99.00
11 11 28  9    15.0 1     0.0     0.00    10.30    99.00    99.00
11 11 28 10    15.0 1   101.0     0.50    11.40    99.00    99.00
11 11 28 11    15.0 1     0.0     0.00    13.50    99.00    99.00
11 11 28 12    15.0 1     0.0     0.00    14.60    99.00    99.00
11 11 28 13    15.0 1   309.0     0.50    15.40    99.00    99.00
11 11 28 14    15.0 1   327.0     0.50    15.90    99.00    99.00
11 11 28 15    15.0 1     0.0     0.00    16.00    99.00    99.00
11 11 28 16    15.0 1     0.0     0.00    15.60    99.00    99.00
11 11 28 17    15.0 1     0.0     0.00    14.80    99.00    99.00
11 11 28 18    15.0 1     0.0     0.00    14.00    99.00    99.00
11 11 28 19    15.0 1   134.0     0.50    13.30    99.00    99.00
11 11 28 20    15.0 1     0.0     0.00    12.80    99.00    99.00
11 11 28 21    15.0 1    59.0     0.50    12.10    99.00    99.00
11 11 28 22    15.0 1    59.0     0.50    11.90    99.00    99.00
11 11 28 23    15.0 1    48.0     1.00    11.60    99.00    99.00
11 11 28 24    15.0 1     0.0     0.00    11.60    99.00    99.00
11 11 29  1    15.0 1     0.0     0.00    11.40    99.00    99.00
11 11 29  2    15.0 1     0.0     0.00    11.10    99.00    99.00
11 11 29  3    15.0 1   316.0     0.50    10.60    99.00    99.00
11 11 29  4    15.0 1   326.0     0.50    10.30    99.00    99.00
11 11 29  5    15.0 1   328.0     0.50    10.10    99.00    99.00
11 11 29  6    15.0 1   335.0     0.50    10.30    99.00    99.00
11 11 29  7    15.0 1   320.0     0.50    10.30    99.00    99.00
11 11 29  8    15.0 1     0.0     0.00    10.10    99.00    99.00
11 11 29  9    15.0 1   333.0     0.50    11.50    99.00    99.00
11 11 29 10    15.0 1   333.0     0.50    13.40    99.00    99.00
11 11 29 11    15.0 1     0.0     0.00    14.90    99.00    99.00
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11	11	29	12	15.0	1	324.0	0.50	16.60	99.00	99.00
11	11	29	13	15.0	1	322.0	1.50	17.60	99.00	99.00
11	11	29	14	15.0	1	317.0	1.50	18.10	99.00	99.00
11	11	29	15	15.0	1	325.0	1.50	18.30	99.00	99.00
11	11	29	16	15.0	1	333.0	1.50	18.10	99.00	99.00
11	11	29	17	15.0	1	323.0	1.00	17.40	99.00	99.00
11	11	29	18	15.0	1	286.0	0.50	16.10	99.00	99.00
11	11	29	19	15.0	1	249.0	0.50	15.10	99.00	99.00
11	11	29	20	15.0	1	257.0	0.50	14.00	99.00	99.00
11	11	29	21	15.0	1	301.0	0.50	13.10	99.00	99.00
11	11	29	22	15.0	1	318.0	1.00	12.60	99.00	99.00
11	11	29	23	15.0	1	318.0	1.50	12.10	99.00	99.00
11	11	29	24	15.0	1	323.0	2.10	11.60	99.00	99.00
11	11	30	1	15.0	1	333.0	2.10	11.10	99.00	99.00
11	11	30	2	15.0	1	322.0	1.50	10.60	99.00	99.00
11	11	30	3	15.0	1	312.0	1.50	10.10	99.00	99.00
11	11	30	4	15.0	1	300.0	1.00	9.80	99.00	99.00
11	11	30	5	15.0	1	348.0	0.50	9.40	99.00	99.00
11	11	30	6	15.0	1	27.0	0.50	8.90	99.00	99.00
11	11	30	7	15.0	1	31.0	0.50	8.50	99.00	99.00
11	11	30	8	15.0	1	0.0	0.00	8.30	99.00	99.00
11	11	30	9	15.0	1	326.0	1.00	9.80	99.00	99.00
11	11	30	10	15.0	1	338.0	1.50	11.60	99.00	99.00
11	11	30	11	15.0	1	326.0	2.60	12.90	99.00	99.00
11	11	30	12	15.0	1	335.0	3.10	14.30	99.00	99.00
11	11	30	13	15.0	1	338.0	4.10	15.60	99.00	99.00
11	11	30	14	15.0	1	342.0	5.10	16.60	99.00	99.00
11	11	30	15	15.0	1	328.0	4.10	17.40	99.00	99.00
11	11	30	16	15.0	1	266.0	1.00	17.40	99.00	99.00
11	11	30	17	15.0	1	194.0	3.10	16.10	99.00	99.00
11	11	30	18	15.0	1	306.0	4.10	13.80	99.00	99.00
11	11	30	19	15.0	1	336.0	8.70	12.30	99.00	99.00
11	11	30	20	15.0	1	335.0	12.30	11.80	99.00	99.00
11	11	30	21	15.0	1	331.0	11.30	11.00	99.00	99.00
11	11	30	22	15.0	1	334.0	10.80	10.10	99.00	99.00
11	11	30	23	15.0	1	330.0	10.30	9.60	99.00	99.00
11	11	30	24	15.0	1	334.0	9.30	9.10	99.00	99.00
11	12	1	1	15.0	1	345.0	8.70	8.60	99.00	99.00
11	12	1	2	15.0	1	341.0	8.20	8.30	99.00	99.00
11	12	1	3	15.0	1	342.0	8.70	8.10	99.00	99.00
11	12	1	4	15.0	1	344.0	10.80	8.10	99.00	99.00
11	12	1	5	15.0	1	341.0	11.30	8.30	99.00	99.00
11	12	1	6	15.0	1	339.0	10.80	8.10	99.00	99.00
11	12	1	7	15.0	1	335.0	10.30	7.90	99.00	99.00
11	12	1	8	15.0	1	330.0	10.30	8.30	99.00	99.00
11	12	1	9	15.0	1	338.0	10.30	10.10	99.00	99.00
11	12	1	10	15.0	1	344.0	10.80	12.10	99.00	99.00
11	12	1	11	15.0	1	345.0	10.30	13.80	99.00	99.00
11	12	1	12	15.0	1	332.0	9.80	15.40	99.00	99.00
11	12	1	13	15.0	1	333.0	8.70	16.90	99.00	99.00
11	12	1	14	15.0	1	335.0	7.20	18.10	99.00	99.00
11	12	1	15	15.0	1	326.0	6.20	18.30	99.00	99.00
11	12	1	16	15.0	1	330.0	5.70	16.60	99.00	99.00
11	12	1	17	15.0	1	342.0	6.20	14.60	99.00	99.00
11	12	1	18	15.0	1	339.0	7.20	13.40	99.00	99.00
11	12	1	19	15.0	1	352.0	7.70	12.60	99.00	99.00
11	12	1	20	15.0	1	354.0	6.20	11.80	99.00	99.00
11	12	1	21	15.0	1	314.0	2.10	11.10	99.00	99.00
11	12	1	22	15.0	1	219.0	4.10	10.50	99.00	99.00
11	12	1	23	15.0	1	241.0	4.60	9.60	99.00	99.00
11	12	1	24	15.0	1	254.0	4.60	8.60	99.00	99.00
11	12	2	1	15.0	1	226.0	4.10	8.00	99.00	99.00
11	12	2	2	15.0	1	212.0	4.10	7.40	99.00	99.00
11	12	2	3	15.0	1	221.0	4.10	7.00	99.00	99.00
11	12	2	4	15.0	1	244.0	4.10	6.60	99.00	99.00
11	12	2	5	15.0	1	261.0	4.10	6.40	99.00	99.00
11	12	2	6	15.0	1	267.0	4.60	6.00	99.00	99.00
11	12	2	7	15.0	1	285.0	4.60	5.60	99.00	99.00
11	12	2	8	15.0	1	301.0	4.10	5.40	99.00	99.00
11	12	2	9	15.0	1	308.0	3.60	6.90	99.00	99.00
11	12	2	10	15.0	1	301.0	3.10	8.40	99.00	99.00
11	12	2	11	15.0	1	275.0	2.60	10.30	99.00	99.00
11	12	2	12	15.0	1	264.0	3.10	12.00	99.00	99.00
11	12	2	13	15.0	1	268.0	2.60	13.10	99.00	99.00
11	12	2	14	15.0	1	294.0	2.10	14.00	99.00	99.00
11	12	2	15	15.0	1	324.0	2.60	14.10	99.00	99.00
11	12	2	16	15.0	1	342.0	2.60	13.60	99.00	99.00

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11 12  2 17    15.0 1   349.0     3.10    12.60    99.00    99.00
11 12  2 18    15.0 1   349.0     3.10    11.50    99.00    99.00
11 12  2 19    15.0 1   344.0     2.60    10.50    99.00    99.00
11 12  2 20    15.0 1   308.0     1.50     9.50    99.00    99.00
11 12  2 21    15.0 1   300.0     2.10     8.60    99.00    99.00
11 12  2 22    15.0 1   292.0     1.50     8.00    99.00    99.00
11 12  2 23    15.0 1   303.0     1.00     7.30    99.00    99.00
11 12  2 24    15.0 1   276.0     0.50     6.60    99.00    99.00
11 12  3  1    15.0 1   273.0     1.00     5.80    99.00    99.00
11 12  3  2    15.0 1   273.0     1.50     5.10    99.00    99.00
11 12  3  3    15.0 1   273.0     1.50     4.40    99.00    99.00
11 12  3  4    15.0 1   274.0     2.10     3.90    99.00    99.00
11 12  3  5    15.0 1   267.0     2.10     3.50    99.00    99.00
11 12  3  6    15.0 1   260.0     2.10     3.10    99.00    99.00
11 12  3  7    15.0 1   250.0     2.10     2.60    99.00    99.00
11 12  3  8    15.0 1   254.0     2.10     2.50    99.00    99.00
11 12  3  9    15.0 1   288.0     1.50     3.60    99.00    99.00
11 12  3 10    15.0 1   278.0     1.00     5.10    99.00    99.00
11 12  3 11    15.0 1   259.0     0.50     7.00    99.00    99.00
11 12  3 12    15.0 1   267.0     1.50     8.80    99.00    99.00
11 12  3 13    15.0 1   296.0     1.50     9.80    99.00    99.00
11 12  3 14    15.0 1   317.0     2.10    10.60    99.00    99.00
11 12  3 15    15.0 1   331.0     2.60    10.90    99.00    99.00
11 12  3 16    15.0 1   326.0     2.10    10.80    99.00    99.00
11 12  3 17    15.0 1   329.0     1.00    10.10    99.00    99.00
11 12  3 18    15.0 1     0.0     0.00     9.00    99.00    99.00
11 12  3 19    15.0 1   180.0     0.50     7.60    99.00    99.00
11 12  3 20    15.0 1   184.0     1.00     6.50    99.00    99.00
11 12  3 21    15.0 1   188.0     1.50     5.60    99.00    99.00
11 12  3 22    15.0 1   203.0     1.50     5.10    99.00    99.00
11 12  3 23    15.0 1   222.0     2.10     4.90    99.00    99.00
11 12  3 24    15.0 1   245.0     2.60     4.60    99.00    99.00
11 12  4  1    15.0 1   259.0     2.60     4.30    99.00    99.00
11 12  4  2    15.0 1   279.0     2.60     3.80    99.00    99.00
11 12  4  3    15.0 1   288.0     2.10     3.30    99.00    99.00
11 12  4  4    15.0 1   286.0     2.60     2.80    99.00    99.00
11 12  4  5    15.0 1   279.0     3.10     2.10    99.00    99.00
11 12  4  6    15.0 1   278.0     3.10     1.50    99.00    99.00
11 12  4  7    15.0 1   270.0     3.10     0.90    99.00    99.00
11 12  4  8    15.0 1   257.0     3.10     0.60    99.00    99.00
11 12  4  9    15.0 1   304.0     2.60     2.30    99.00    99.00
11 12  4 10    15.0 1   301.0     1.00     3.90    99.00    99.00
11 12  4 11    15.0 1     0.0     0.00     5.60    99.00    99.00
11 12  4 12    15.0 1     0.0     0.00     7.30    99.00    99.00
11 12  4 13    15.0 1     0.0     0.00     8.30    99.00    99.00
11 12  4 14    15.0 1   252.0     0.50     9.00    99.00    99.00
11 12  4 15    15.0 1   257.0     0.50     9.40    99.00    99.00
11 12  4 16    15.0 1     0.0     0.00     9.40    99.00    99.00
11 12  4 17    15.0 1    94.0     0.50     8.60    99.00    99.00
11 12  4 18    15.0 1    97.0     1.00     7.60    99.00    99.00
11 12  4 19    15.0 1   122.0     1.00     6.50    99.00    99.00
11 12  4 20    15.0 1   150.0     1.00     5.40    99.00    99.00
11 12  4 21    15.0 1   138.0     1.50     4.50    99.00    99.00
11 12  4 22    15.0 1   119.0     1.50     3.90    99.00    99.00
11 12  4 23    15.0 1   107.0     1.50     3.40    99.00    99.00
11 12  4 24    15.0 1   108.0     1.50     2.90    99.00    99.00
11 12  5  1    15.0 1    98.0     0.50     2.40    99.00    99.00
11 12  5  2    15.0 1     0.0     0.00     1.90    99.00    99.00
11 12  5  3    15.0 1     0.0     0.00     1.40    99.00    99.00
11 12  5  4    15.0 1     0.0     0.00     0.90    99.00    99.00
11 12  5  5    15.0 1     0.0     0.00     0.50    99.00    99.00
11 12  5  6    15.0 1     0.0     0.00     0.30    99.00    99.00
11 12  5  7    15.0 1     0.0     0.00     0.10    99.00    99.00
11 12  5  8    15.0 1   305.0     0.50     0.10    99.00    99.00
11 12  5  9    15.0 1   302.0     0.50     1.90    99.00    99.00
11 12  5 10    15.0 1   297.0     1.50     5.10    99.00    99.00
11 12  5 11    15.0 1   303.0     1.00     7.30    99.00    99.00
11 12  5 12    15.0 1   292.0     1.00     9.10    99.00    99.00
11 12  5 13    15.0 1   298.0     1.00    10.10    99.00    99.00
11 12  5 14    15.0 1   330.0     1.00    11.00    99.00    99.00
11 12  5 15    15.0 1   354.0     1.50    11.30    99.00    99.00
11 12  5 16    15.0 1    16.0     2.10    11.10    99.00    99.00
11 12  5 17    15.0 1    48.0     2.60    10.10    99.00    99.00
11 12  5 18    15.0 1    77.0     2.10     8.90    99.00    99.00
11 12  5 19    15.0 1   145.0     1.50     7.60    99.00    99.00
11 12  5 20    15.0 1   191.0     2.10     6.80    99.00    99.00
11 12  5 21    15.0 1   225.0     1.50     6.30    99.00    99.00
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11 12  5 22    15.0 1   156.0     1.50     5.40    99.00    99.00
11 12  5 23    15.0 1   116.0     2.10     4.50    99.00    99.00
11 12  5 24    15.0 1   100.0     3.10     3.80    99.00    99.00
11 12  6  1    15.0 1    90.0     2.60     3.30    99.00    99.00
11 12  6  2    15.0 1    74.0     2.60     2.90    99.00    99.00
11 12  6  3    15.0 1    48.0     2.60     2.40    99.00    99.00
11 12  6  4    15.0 1    28.0     3.10     2.00    99.00    99.00
11 12  6  5    15.0 1    14.0     2.60     1.60    99.00    99.00
11 12  6  6    15.0 1   358.0     2.10     1.10    99.00    99.00
11 12  6  7    15.0 1     4.0     1.00     0.80    99.00    99.00
11 12  6  8    15.0 1   316.0     0.50     0.50    99.00    99.00
11 12  6  9    15.0 1   204.0     0.50     1.60    99.00    99.00
11 12  6 10    15.0 1   196.0     0.50     4.60    99.00    99.00
11 12  6 11    15.0 1     0.0     0.00     6.50    99.00    99.00
11 12  6 12    15.0 1     0.0     0.00     8.30    99.00    99.00
11 12  6 13    15.0 1     0.0     0.00     9.40    99.00    99.00
11 12  6 14    15.0 1   343.0     0.50    10.10    99.00    99.00
11 12  6 15    15.0 1   348.0     1.50    10.30    99.00    99.00
11 12  6 16    15.0 1     8.0     1.50    11.10    99.00    99.00
11 12  6 17    15.0 1    38.0     1.50    10.10    99.00    99.00
11 12  6 18    15.0 1    61.0     1.00     9.00    99.00    99.00
11 12  6 19    15.0 1     0.0     0.00     7.60    99.00    99.00
11 12  6 20    15.0 1     0.0     0.00     6.60    99.00    99.00
11 12  6 21    15.0 1     0.0     0.00     5.60    99.00    99.00
11 12  6 22    15.0 1     0.0     0.00     4.80    99.00    99.00
11 12  6 23    15.0 1    72.0     0.50     4.10    99.00    99.00
11 12  6 24    15.0 1    56.0     0.50     3.60    99.00    99.00
11 12  7  1    15.0 1     0.0     0.00     3.10    99.00    99.00
11 12  7  2    15.0 1    30.0     0.50     2.60    99.00    99.00
11 12  7  3    15.0 1    20.0     1.00     2.10    99.00    99.00
11 12  7  4    15.0 1     6.0     1.00     1.80    99.00    99.00
11 12  7  5    15.0 1   344.0     1.00     1.60    99.00    99.00
11 12  7  6    15.0 1   310.0     0.50     1.10    99.00    99.00
11 12  7  7    15.0 1   225.0     0.50     0.80    99.00    99.00
11 12  7  8    15.0 1   210.0     0.50     0.50    99.00    99.00
11 12  7  9    15.0 1     0.0     0.00     1.90    99.00    99.00
11 12  7 10    15.0 1   287.0     0.50     5.30    99.00    99.00
11 12  7 11    15.0 1   324.0     0.50     7.10    99.00    99.00
11 12  7 12    15.0 1   326.0     0.50     8.80    99.00    99.00
11 12  7 13    15.0 1   329.0     1.50    10.10    99.00    99.00
11 12  7 14    15.0 1   344.0     1.50    10.80    99.00    99.00
11 12  7 15    15.0 1   354.0     2.10    11.00    99.00    99.00
11 12  7 16    15.0 1     0.0     0.00    10.80    99.00    99.00
11 12  7 17    15.0 1    13.0     1.00    10.00    99.00    99.00
11 12  7 18    15.0 1   291.0     0.50     8.80    99.00    99.00
11 12  7 19    15.0 1   248.0     0.50     7.60    99.00    99.00
11 12  7 20    15.0 1     0.0     0.00     6.50    99.00    99.00
11 12  7 21    15.0 1     0.0     0.00     5.50    99.00    99.00
11 12  7 22    15.0 1     0.0     0.00     4.60    99.00    99.00
11 12  7 23    15.0 1     0.0     0.00     3.90    99.00    99.00
11 12  7 24    15.0 1     0.0     0.00     3.30    99.00    99.00
11 12  8  1    15.0 1     0.0     0.00     2.60    99.00    99.00
11 12  8  2    15.0 1     0.0     0.00     2.10    99.00    99.00
11 12  8  3    15.0 1     0.0     0.00     1.90    99.00    99.00
11 12  8  4    15.0 1   339.0     0.50     1.60    99.00    99.00
11 12  8  5    15.0 1   311.0     1.00     1.40    99.00    99.00
11 12  8  6    15.0 1   303.0     1.50     1.30    99.00    99.00
11 12  8  7    15.0 1   295.0     1.50     1.10    99.00    99.00
11 12  8  8    15.0 1   281.0     2.10     0.90    99.00    99.00
11 12  8  9    15.0 1   302.0     1.50     2.50    99.00    99.00
11 12  8 10    15.0 1   301.0     1.00     4.50    99.00    99.00
11 12  8 11    15.0 1   299.0     0.50     6.40    99.00    99.00
11 12  8 12    15.0 1   296.0     0.50     8.10    99.00    99.00
11 12  8 13    15.0 1   306.0     0.50     9.50    99.00    99.00
11 12  8 14    15.0 1   335.0     1.00    10.10    99.00    99.00
11 12  8 15    15.0 1   346.0     1.50    10.60    99.00    99.00
11 12  8 16    15.0 1     0.0     0.00    10.50    99.00    99.00
11 12  8 17    15.0 1    16.0     1.00     9.60    99.00    99.00
11 12  8 18    15.0 1     0.0     0.00     8.50    99.00    99.00
11 12  8 19    15.0 1     0.0     0.00     7.30    99.00    99.00
11 12  8 20    15.0 1     0.0     0.00     6.10    99.00    99.00
11 12  8 21    15.0 1     0.0     0.00     5.40    99.00    99.00
11 12  8 22    15.0 1    50.0     0.50     4.60    99.00    99.00
11 12  8 23    15.0 1    38.0     0.50     4.00    99.00    99.00
11 12  8 24    15.0 1    43.0     0.50     3.60    99.00    99.00
11 12  9  1    15.0 1    43.0     0.50     3.10    99.00    99.00
11 12  9  2    15.0 1    52.0     0.50     2.80    99.00    99.00
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11 12  9  3    15.0 1     0.0     0.00     2.50    99.00    99.00
11 12  9  4    15.0 1     0.0     0.00     2.10    99.00    99.00
11 12  9  5    15.0 1     0.0     0.00     1.60    99.00    99.00
11 12  9  6    15.0 1     0.0     0.00     1.40    99.00    99.00
11 12  9  7    15.0 1     0.0     0.00     1.10    99.00    99.00
11 12  9  8    15.0 1     0.0     0.00     1.00    99.00    99.00
11 12  9  9    15.0 1     0.0     0.00     2.40    99.00    99.00
11 12  9 10    15.0 1   282.0     0.50     6.10    99.00    99.00
11 12  9 11    15.0 1   300.0     0.50     8.10    99.00    99.00
11 12  9 12    15.0 1   299.0     1.00    10.00    99.00    99.00
11 12  9 13    15.0 1   321.0     1.50    11.30    99.00    99.00
11 12  9 14    15.0 1   335.0     1.50    11.90    99.00    99.00
11 12  9 15    15.0 1   355.0     1.50    12.10    99.00    99.00
11 12  9 16    15.0 1    23.0     1.00    12.10    99.00    99.00
11 12  9 17    15.0 1    72.0     0.50    11.10    99.00    99.00
11 12  9 18    15.0 1     0.0     0.00     9.80    99.00    99.00
11 12  9 19    15.0 1     0.0     0.00     8.50    99.00    99.00
11 12  9 20    15.0 1     0.0     0.00     7.30    99.00    99.00
11 12  9 21    15.0 1     0.0     0.00     6.40    99.00    99.00
11 12  9 22    15.0 1    55.0     0.50     5.60    99.00    99.00
11 12  9 23    15.0 1    37.0     0.50     5.10    99.00    99.00
11 12  9 24    15.0 1    17.0     1.00     4.60    99.00    99.00
11 12 10  1    15.0 1    24.0     0.50     4.30    99.00    99.00
11 12 10  2    15.0 1    15.0     0.50     4.00    99.00    99.00
11 12 10  3    15.0 1   338.0     0.50     3.60    99.00    99.00
11 12 10  4    15.0 1   347.0     0.50     3.30    99.00    99.00
11 12 10  5    15.0 1   355.0     0.50     2.90    99.00    99.00
11 12 10  6    15.0 1   343.0     0.50     2.60    99.00    99.00
11 12 10  7    15.0 1   332.0     0.50     2.30    99.00    99.00
11 12 10  8    15.0 1     0.0     0.00     2.00    99.00    99.00
11 12 10  9    15.0 1     0.0     0.00     3.10    99.00    99.00
11 12 10 10    15.0 1   286.0     1.00     6.60    99.00    99.00
11 12 10 11    15.0 1   303.0     1.00     8.60    99.00    99.00
11 12 10 12    15.0 1   316.0     0.50    10.10    99.00    99.00
11 12 10 13    15.0 1   306.0     0.50    11.80    99.00    99.00
11 12 10 14    15.0 1   320.0     1.00    12.60    99.00    99.00
11 12 10 15    15.0 1   335.0     1.50    13.00    99.00    99.00
11 12 10 16    15.0 1     0.0     0.00    12.60    99.00    99.00
11 12 10 17    15.0 1    28.0     1.50    11.60    99.00    99.00
11 12 10 18    15.0 1    71.0     0.50    10.40    99.00    99.00
11 12 10 19    15.0 1     0.0     0.00     9.00    99.00    99.00
11 12 10 20    15.0 1     0.0     0.00     7.80    99.00    99.00
11 12 10 21    15.0 1     0.0     0.00     6.80    99.00    99.00
11 12 10 22    15.0 1     0.0     0.00     6.00    99.00    99.00
11 12 10 23    15.0 1    64.0     0.50     5.10    99.00    99.00
11 12 10 24    15.0 1     0.0     0.00     4.60    99.00    99.00
11 12 11  1    15.0 1     0.0     0.00     4.00    99.00    99.00
11 12 11  2    15.0 1    88.0     0.50     3.60    99.00    99.00
11 12 11  3    15.0 1    90.0     0.50     3.10    99.00    99.00
11 12 11  4    15.0 1    92.0     0.50     2.80    99.00    99.00
11 12 11  5    15.0 1    95.0     0.50     2.50    99.00    99.00
11 12 11  6    15.0 1     0.0     0.00     2.10    99.00    99.00
11 12 11  7    15.0 1     0.0     0.00     1.90    99.00    99.00
11 12 11  8    15.0 1     0.0     0.00     1.60    99.00    99.00
11 12 11  9    15.0 1     0.0     0.00     3.00    99.00    99.00
11 12 11 10    15.0 1     0.0     0.00     6.10    99.00    99.00
11 12 11 11    15.0 1     0.0     0.00     8.10    99.00    99.00
11 12 11 12    15.0 1     0.0     0.00     9.80    99.00    99.00
11 12 11 13    15.0 1     0.0     0.00    11.40    99.00    99.00
11 12 11 14    15.0 1   331.0     1.00    12.10    99.00    99.00
11 12 11 15    15.0 1   336.0     1.50    12.30    99.00    99.00
11 12 11 16    15.0 1   352.0     2.10    12.90    99.00    99.00
11 12 11 17    15.0 1   357.0     2.10    12.10    99.00    99.00
11 12 11 18    15.0 1   354.0     1.00    11.00    99.00    99.00
11 12 11 19    15.0 1   233.0     1.00     9.80    99.00    99.00
11 12 11 20    15.0 1   234.0     1.00     8.80    99.00    99.00
11 12 11 21    15.0 1   245.0     1.50     8.10    99.00    99.00
11 12 11 22    15.0 1   251.0     1.50     7.50    99.00    99.00
11 12 11 23    15.0 1   265.0     1.50     7.00    99.00    99.00
11 12 11 24    15.0 1   274.0     1.00     6.60    99.00    99.00
11 12 12  1    15.0 1   318.0     0.50     6.10    99.00    99.00
11 12 12  2    15.0 1   327.0     1.00     5.50    99.00    99.00
11 12 12  3    15.0 1   323.0     1.00     5.10    99.00    99.00
11 12 12  4    15.0 1   292.0     1.00     5.10    99.00    99.00
11 12 12  5    15.0 1   295.0     2.60     5.10    99.00    99.00
11 12 12  6    15.0 1   304.0     2.60     5.10    99.00    99.00
11 12 12  7    15.0 1   323.0     2.60     5.00    99.00    99.00
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11 12 12  8    15.0 1   333.0     2.10     4.60    99.00    99.00
11 12 12  9    15.0 1   345.0     1.50     4.60    99.00    99.00
11 12 12 10    15.0 1   309.0     1.00     5.10    99.00    99.00
11 12 12 11    15.0 1   291.0     1.00     6.10    99.00    99.00
11 12 12 12    15.0 1   299.0     1.50     7.00    99.00    99.00
11 12 12 13    15.0 1   328.0     1.50     7.90    99.00    99.00
11 12 12 14    15.0 1   345.0     2.10     8.40    99.00    99.00
11 12 12 15    15.0 1   345.0     2.60     8.50    99.00    99.00
11 12 12 16    15.0 1   335.0     2.10     8.30    99.00    99.00
11 12 12 17    15.0 1   316.0     2.10     7.80    99.00    99.00
11 12 12 18    15.0 1   301.0     2.10     7.50    99.00    99.00
11 12 12 19    15.0 1   288.0     1.50     7.10    99.00    99.00
11 12 12 20    15.0 1   289.0     0.50     6.60    99.00    99.00
11 12 12 21    15.0 1     0.0     0.00     6.10    99.00    99.00
11 12 12 22    15.0 1     0.0     0.00     5.60    99.00    99.00
11 12 12 23    15.0 1     0.0     0.00     5.50    99.00    99.00
11 12 12 24    15.0 1     0.0     0.00     5.30    99.00    99.00
11 12 13  1    15.0 1   279.0     0.50     5.40    99.00    99.00
11 12 13  2    15.0 1   289.0     1.50     5.50    99.00    99.00
11 12 13  3    15.0 1   286.0     2.10     5.60    99.00    99.00
11 12 13  4    15.0 1   277.0     2.10     5.60    99.00    99.00
11 12 13  5    15.0 1   260.0     1.50     5.60    99.00    99.00
11 12 13  6    15.0 1   289.0     1.50     5.50    99.00    99.00
11 12 13  7    15.0 1   326.0     1.00     5.60    99.00    99.00
11 12 13  8    15.0 1    90.0     0.50     5.60    99.00    99.00
11 12 13  9    15.0 1     0.0     0.00     5.60    99.00    99.00
11 12 13 10    15.0 1   306.0     0.50     5.80    99.00    99.00
11 12 13 11    15.0 1   239.0     1.00     6.60    99.00    99.00
11 12 13 12    15.0 1   229.0     1.00     7.90    99.00    99.00
11 12 13 13    15.0 1     0.0     0.00     9.40    99.00    99.00
11 12 13 14    15.0 1     0.0     0.00    10.50    99.00    99.00
11 12 13 15    15.0 1     0.0     0.00    11.10    99.00    99.00
11 12 13 16    15.0 1   279.0     0.50    11.30    99.00    99.00
11 12 13 17    15.0 1   192.0     0.50    10.60    99.00    99.00
11 12 13 18    15.0 1   183.0     2.10     9.10    99.00    99.00
11 12 13 19    15.0 1   177.0     3.60     7.80    99.00    99.00
11 12 13 20    15.0 1   180.0     3.60     6.90    99.00    99.00
11 12 13 21    15.0 1   179.0     3.10     6.50    99.00    99.00
11 12 13 22    15.0 1   175.0     2.60     6.10    99.00    99.00
11 12 13 23    15.0 1   152.0     2.10     5.50    99.00    99.00
11 12 13 24    15.0 1   135.0     2.10     4.90    99.00    99.00
11 12 14  1    15.0 1   129.0     2.10     4.40    99.00    99.00
11 12 14  2    15.0 1   129.0     1.50     3.90    99.00    99.00
11 12 14  3    15.0 1   108.0     0.50     2.60    99.00    99.00
11 12 14  4    15.0 1     0.0     0.00     0.90    99.00    99.00
11 12 14  5    15.0 1     0.0     0.00     0.30    99.00    99.00
11 12 14  6    15.0 1     0.0     0.00     0.60    99.00    99.00
11 12 14  7    15.0 1     0.0     0.00     0.90    99.00    99.00
11 12 14  8    15.0 1     0.0     0.00     0.60    99.00    99.00
11 12 14  9    15.0 1     0.0     0.00     1.80    99.00    99.00
11 12 14 10    15.0 1   304.0     0.50     4.40    99.00    99.00
11 12 14 11    15.0 1   304.0     0.50     6.40    99.00    99.00
11 12 14 12    15.0 1   297.0     1.00     8.40    99.00    99.00
11 12 14 13    15.0 1   305.0     1.00     9.50    99.00    99.00
11 12 14 14    15.0 1   325.0     1.00    10.10    99.00    99.00
11 12 14 15    15.0 1   344.0     1.50    10.40    99.00    99.00
11 12 14 16    15.0 1     5.0     1.50    10.40    99.00    99.00
11 12 14 17    15.0 1    21.0     0.50     9.60    99.00    99.00
11 12 14 18    15.0 1     0.0     0.00     8.40    99.00    99.00
11 12 14 19    15.0 1     0.0     0.00     7.10    99.00    99.00
11 12 14 20    15.0 1     0.0     0.00     6.10    99.00    99.00
11 12 14 21    15.0 1     0.0     0.00     5.50    99.00    99.00
11 12 14 22    15.0 1     0.0     0.00     5.10    99.00    99.00
11 12 14 23    15.0 1     0.0     0.00     4.60    99.00    99.00
11 12 14 24    15.0 1     0.0     0.00     4.40    99.00    99.00
11 12 15  1    15.0 1     0.0     0.00     4.10    99.00    99.00
11 12 15  2    15.0 1     0.0     0.00     4.10    99.00    99.00
11 12 15  3    15.0 1     0.0     0.00     4.00    99.00    99.00
11 12 15  4    15.0 1    90.0     0.50     3.80    99.00    99.00
11 12 15  5    15.0 1    90.0     1.00     3.60    99.00    99.00
11 12 15  6    15.0 1   105.0     1.00     3.40    99.00    99.00
11 12 15  7    15.0 1   136.0     0.50     3.30    99.00    99.00
11 12 15  8    15.0 1   145.0     0.50     3.00    99.00    99.00
11 12 15  9    15.0 1     0.0     0.00     3.60    99.00    99.00
11 12 15 10    15.0 1     0.0     0.00     6.10    99.00    99.00
11 12 15 11    15.0 1     0.0     0.00     7.80    99.00    99.00
11 12 15 12    15.0 1     0.0     0.00     9.10    99.00    99.00
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11 12 15 13    15.0 1     0.0     0.00     9.90    99.00    99.00
11 12 15 14    15.0 1   306.0     1.00    10.40    99.00    99.00
11 12 15 15    15.0 1   326.0     2.10    10.40    99.00    99.00
11 12 15 16    15.0 1   328.0     1.50    10.10    99.00    99.00
11 12 15 17    15.0 1     0.0     0.00     9.60    99.00    99.00
11 12 15 18    15.0 1     0.0     0.00     8.50    99.00    99.00
11 12 15 19    15.0 1   173.0     0.50     7.50    99.00    99.00
11 12 15 20    15.0 1   188.0     1.00     6.60    99.00    99.00
11 12 15 21    15.0 1   185.0     1.00     5.80    99.00    99.00
11 12 15 22    15.0 1   164.0     1.00     5.10    99.00    99.00
11 12 15 23    15.0 1   170.0     1.00     4.60    99.00    99.00
11 12 15 24    15.0 1   189.0     1.50     4.40    99.00    99.00
11 12 16  1    15.0 1   209.0     2.10     4.10    99.00    99.00
11 12 16  2    15.0 1   238.0     3.10     4.10    99.00    99.00
11 12 16  3    15.0 1   249.0     3.60     4.00    99.00    99.00
11 12 16  4    15.0 1   273.0     3.60     3.80    99.00    99.00
11 12 16  5    15.0 1   285.0     3.10     3.30    99.00    99.00
11 12 16  6    15.0 1   284.0     2.60     2.80    99.00    99.00
11 12 16  7    15.0 1   269.0     2.10     2.40    99.00    99.00
11 12 16  8    15.0 1   248.0     2.10     2.10    99.00    99.00
11 12 16  9    15.0 1   243.0     2.10     3.40    99.00    99.00
11 12 16 10    15.0 1   264.0     2.60     5.60    99.00    99.00
11 12 16 11    15.0 1   267.0     1.50     7.60    99.00    99.00
11 12 16 12    15.0 1   295.0     1.50     9.50    99.00    99.00
11 12 16 13    15.0 1   306.0     2.10    10.60    99.00    99.00
11 12 16 14    15.0 1   316.0     2.10    11.40    99.00    99.00
11 12 16 15    15.0 1   333.0     2.10    11.60    99.00    99.00
11 12 16 16    15.0 1   353.0     1.50    12.00    99.00    99.00
11 12 16 17    15.0 1     2.0     1.50    11.10    99.00    99.00
11 12 16 18    15.0 1    29.0     0.50    10.00    99.00    99.00
11 12 16 19    15.0 1     0.0     0.00     8.80    99.00    99.00
11 12 16 20    15.0 1   176.0     0.50     7.60    99.00    99.00
11 12 16 21    15.0 1   192.0     0.50     6.80    99.00    99.00
11 12 16 22    15.0 1   108.0     0.50     6.30    99.00    99.00
11 12 16 23    15.0 1    81.0     1.00     5.80    99.00    99.00
11 12 16 24    15.0 1    75.0     1.50     5.10    99.00    99.00
11 12 17  1    15.0 1    60.0     1.50     4.50    99.00    99.00
11 12 17  2    15.0 1    65.0     2.60     4.10    99.00    99.00
11 12 17  3    15.0 1    53.0     2.60     3.90    99.00    99.00
11 12 17  4    15.0 1    36.0     2.10     3.60    99.00    99.00
11 12 17  5    15.0 1    28.0     1.50     3.30    99.00    99.00
11 12 17  6    15.0 1     6.0     0.50     2.90    99.00    99.00
11 12 17  7    15.0 1     0.0     0.00     2.50    99.00    99.00
11 12 17  8    15.0 1     0.0     0.00     2.10    99.00    99.00
11 12 17  9    15.0 1     0.0     0.00     3.10    99.00    99.00
11 12 17 10    15.0 1   334.0     0.50     6.60    99.00    99.00
11 12 17 11    15.0 1   330.0     1.00     9.00    99.00    99.00
11 12 17 12    15.0 1   346.0     1.50    10.60    99.00    99.00
11 12 17 13    15.0 1     3.0     2.10    11.80    99.00    99.00
11 12 17 14    15.0 1     8.0     2.60    12.60    99.00    99.00
11 12 17 15    15.0 1    13.0     2.60    12.60    99.00    99.00
11 12 17 16    15.0 1    29.0     2.60    12.10    99.00    99.00
11 12 17 17    15.0 1    44.0     3.60    11.10    99.00    99.00
11 12 17 18    15.0 1    54.0     2.60    10.30    99.00    99.00
11 12 17 19    15.0 1    73.0     0.50     9.10    99.00    99.00
11 12 17 20    15.0 1   218.0     1.00     8.10    99.00    99.00
11 12 17 21    15.0 1   219.0     0.50     7.60    99.00    99.00
11 12 17 22    15.0 1    50.0     1.00     6.90    99.00    99.00
11 12 17 23    15.0 1    39.0     2.60     6.00    99.00    99.00
11 12 17 24    15.0 1    27.0     3.10     5.60    99.00    99.00
11 12 18  1    15.0 1    30.0     2.60     5.60    99.00    99.00
11 12 18  2    15.0 1    30.0     2.10     5.30    99.00    99.00
11 12 18  3    15.0 1     6.0     1.50     5.00    99.00    99.00
11 12 18  4    15.0 1   307.0     1.00     4.50    99.00    99.00
11 12 18  5    15.0 1   290.0     1.00     4.00    99.00    99.00
11 12 18  6    15.0 1   297.0     0.50     3.80    99.00    99.00
11 12 18  7    15.0 1     0.0     0.00     3.40    99.00    99.00
11 12 18  8    15.0 1    81.0     0.50     3.00    99.00    99.00
11 12 18  9    15.0 1     0.0     0.00     3.90    99.00    99.00
11 12 18 10    15.0 1     0.0     0.00     7.10    99.00    99.00
11 12 18 11    15.0 1     0.0     0.00     9.10    99.00    99.00
11 12 18 12    15.0 1     0.0     0.00    10.90    99.00    99.00
11 12 18 13    15.0 1     0.0     0.00    11.90    99.00    99.00
11 12 18 14    15.0 1     0.0     0.00    12.50    99.00    99.00
11 12 18 15    15.0 1   260.0     0.50    12.80    99.00    99.00
11 12 18 16    15.0 1     0.0     0.00    12.60    99.00    99.00
11 12 18 17    15.0 1     0.0     0.00    11.60    99.00    99.00
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11 12 18 18    15.0 1     0.0     0.00    10.40    99.00    99.00
11 12 18 19    15.0 1     0.0     0.00     9.10    99.00    99.00
11 12 18 20    15.0 1     0.0     0.00     8.00    99.00    99.00
11 12 18 21    15.0 1     0.0     0.00     7.00    99.00    99.00
11 12 18 22    15.0 1     0.0     0.00     6.30    99.00    99.00
11 12 18 23    15.0 1     0.0     0.00     5.60    99.00    99.00
11 12 18 24    15.0 1     0.0     0.00     5.10    99.00    99.00
11 12 19  1    15.0 1     0.0     0.00     4.50    99.00    99.00
11 12 19  2    15.0 1   300.0     0.50     4.10    99.00    99.00
11 12 19  3    15.0 1   300.0     1.00     3.60    99.00    99.00
11 12 19  4    15.0 1   297.0     1.50     3.40    99.00    99.00
11 12 19  5    15.0 1   300.0     2.10     3.30    99.00    99.00
11 12 19  6    15.0 1   311.0     2.10     3.10    99.00    99.00
11 12 19  7    15.0 1   300.0     1.50     2.80    99.00    99.00
11 12 19  8    15.0 1   295.0     1.50     2.60    99.00    99.00
11 12 19  9    15.0 1   318.0     1.50     4.00    99.00    99.00
11 12 19 10    15.0 1   331.0     1.00     5.80    99.00    99.00
11 12 19 11    15.0 1     0.0     0.00     7.50    99.00    99.00
11 12 19 12    15.0 1   300.0     0.50     8.90    99.00    99.00
11 12 19 13    15.0 1   312.0     0.50     9.60    99.00    99.00
11 12 19 14    15.0 1   307.0     1.00    10.40    99.00    99.00
11 12 19 15    15.0 1   321.0     1.50    10.60    99.00    99.00
11 12 19 16    15.0 1   339.0     2.10    10.60    99.00    99.00
11 12 19 17    15.0 1     0.0     0.00     9.90    99.00    99.00
11 12 19 18    15.0 1    19.0     1.00     8.90    99.00    99.00
11 12 19 19    15.0 1     0.0     0.00     7.80    99.00    99.00
11 12 19 20    15.0 1     0.0     0.00     6.60    99.00    99.00
11 12 19 21    15.0 1     0.0     0.00     5.90    99.00    99.00
11 12 19 22    15.0 1     0.0     0.00     5.10    99.00    99.00
11 12 19 23    15.0 1     0.0     0.00     4.60    99.00    99.00
11 12 19 24    15.0 1     0.0     0.00     4.00    99.00    99.00
11 12 20  1    15.0 1     0.0     0.00     3.60    99.00    99.00
11 12 20  2    15.0 1     0.0     0.00     3.40    99.00    99.00
11 12 20  3    15.0 1     0.0     0.00     3.10    99.00    99.00
11 12 20  4    15.0 1   336.0     0.50     2.90    99.00    99.00
11 12 20  5    15.0 1   297.0     0.50     2.60    99.00    99.00
11 12 20  6    15.0 1   271.0     1.00     2.50    99.00    99.00
11 12 20  7    15.0 1   246.0     1.00     2.40    99.00    99.00
11 12 20  8    15.0 1   231.0     1.50     2.40    99.00    99.00
11 12 20  9    15.0 1   236.0     1.50     3.60    99.00    99.00
11 12 20 10    15.0 1   268.0     1.00     6.10    99.00    99.00
11 12 20 11    15.0 1   266.0     0.50     8.00    99.00    99.00
11 12 20 12    15.0 1   283.0     0.50     9.50    99.00    99.00
11 12 20 13    15.0 1   319.0     0.50    10.50    99.00    99.00
11 12 20 14    15.0 1   352.0     1.00    11.10    99.00    99.00
11 12 20 15    15.0 1   358.0     2.10    11.40    99.00    99.00
11 12 20 16    15.0 1    10.0     2.10    11.10    99.00    99.00
11 12 20 17    15.0 1    12.0     2.10    10.30    99.00    99.00
11 12 20 18    15.0 1     0.0     0.00     9.10    99.00    99.00
11 12 20 19    15.0 1   201.0     0.50     8.00    99.00    99.00
11 12 20 20    15.0 1   189.0     1.00     7.00    99.00    99.00
11 12 20 21    15.0 1   178.0     1.00     6.30    99.00    99.00
11 12 20 22    15.0 1   110.0     1.00     5.60    99.00    99.00
11 12 20 23    15.0 1    95.0     1.50     4.80    99.00    99.00
11 12 20 24    15.0 1    80.0     1.50     4.10    99.00    99.00
11 12 21  1    15.0 1    52.0     1.00     3.60    99.00    99.00
11 12 21  2    15.0 1     0.0     0.00     3.60    99.00    99.00
11 12 21  3    15.0 1   348.0     1.00     3.60    99.00    99.00
11 12 21  4    15.0 1   326.0     1.00     3.50    99.00    99.00
11 12 21  5    15.0 1   302.0     1.50     3.00    99.00    99.00
11 12 21  6    15.0 1   304.0     1.50     2.60    99.00    99.00
11 12 21  7    15.0 1   298.0     1.00     2.30    99.00    99.00
11 12 21  8    15.0 1   290.0     0.50     2.10    99.00    99.00
11 12 21  9    15.0 1     0.0     0.00     3.40    99.00    99.00
11 12 21 10    15.0 1     0.0     0.00     5.80    99.00    99.00
11 12 21 11    15.0 1     0.0     0.00     7.60    99.00    99.00
11 12 21 12    15.0 1     0.0     0.00     9.40    99.00    99.00
11 12 21 13    15.0 1   283.0     0.50    10.40    99.00    99.00
11 12 21 14    15.0 1   295.0     0.50    11.00    99.00    99.00
11 12 21 15    15.0 1   321.0     1.00    11.40    99.00    99.00
11 12 21 16    15.0 1   342.0     1.00    12.30    99.00    99.00
11 12 21 17    15.0 1    19.0     1.00    11.50    99.00    99.00
11 12 21 18    15.0 1    54.0     1.00    10.40    99.00    99.00
11 12 21 19    15.0 1     0.0     0.00     9.10    99.00    99.00
11 12 21 20    15.0 1     0.0     0.00     8.10    99.00    99.00
11 12 21 21    15.0 1     0.0     0.00     7.10    99.00    99.00
11 12 21 22    15.0 1     0.0     0.00     6.30    99.00    99.00
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11 12 21 23    15.0 1     0.0     0.00     5.50    99.00    99.00
11 12 21 24    15.0 1     0.0     0.00     4.90    99.00    99.00
11 12 22  1    15.0 1     0.0     0.00     4.50    99.00    99.00
11 12 22  2    15.0 1   243.0     0.50     4.10    99.00    99.00
11 12 22  3    15.0 1   248.0     1.00     4.00    99.00    99.00
11 12 22  4    15.0 1   262.0     1.50     3.80    99.00    99.00
11 12 22  5    15.0 1   260.0     2.60     3.60    99.00    99.00
11 12 22  6    15.0 1   262.0     3.10     3.30    99.00    99.00
11 12 22  7    15.0 1   255.0     3.60     2.90    99.00    99.00
11 12 22  8    15.0 1   250.0     3.60     2.60    99.00    99.00
11 12 22  9    15.0 1   272.0     3.10     4.00    99.00    99.00
11 12 22 10    15.0 1   266.0     3.10     6.10    99.00    99.00
11 12 22 11    15.0 1   275.0     3.60     8.40    99.00    99.00
11 12 22 12    15.0 1   266.0     2.60    10.10    99.00    99.00
11 12 22 13    15.0 1   292.0     2.60    11.30    99.00    99.00
11 12 22 14    15.0 1   314.0     2.60    12.10    99.00    99.00
11 12 22 15    15.0 1   320.0     2.60    12.50    99.00    99.00
11 12 22 16    15.0 1     4.0     2.10    12.10    99.00    99.00
11 12 22 17    15.0 1    55.0     1.00    11.10    99.00    99.00
11 12 22 18    15.0 1   145.0     1.00     9.60    99.00    99.00
11 12 22 19    15.0 1   196.0     1.50     8.30    99.00    99.00
11 12 22 20    15.0 1   226.0     3.60     7.60    99.00    99.00
11 12 22 21    15.0 1   238.0     4.10     6.90    99.00    99.00
11 12 22 22    15.0 1   247.0     3.60     6.10    99.00    99.00
11 12 22 23    15.0 1   247.0     3.60     5.40    99.00    99.00
11 12 22 24    15.0 1   248.0     4.10     4.80    99.00    99.00
11 12 23  1    15.0 1   249.0     4.60     4.10    99.00    99.00
11 12 23  2    15.0 1   250.0     4.10     3.40    99.00    99.00
11 12 23  3    15.0 1   249.0     4.10     2.80    99.00    99.00
11 12 23  4    15.0 1   250.0     3.60     2.40    99.00    99.00
11 12 23  5    15.0 1   247.0     4.10     2.00    99.00    99.00
11 12 23  6    15.0 1   251.0     4.10     1.60    99.00    99.00
11 12 23  7    15.0 1   259.0     4.10     1.30    99.00    99.00
11 12 23  8    15.0 1   247.0     3.60     1.10    99.00    99.00
11 12 23  9    15.0 1   275.0     2.60     2.10    99.00    99.00
11 12 23 10    15.0 1   290.0     1.50     3.60    99.00    99.00
11 12 23 11    15.0 1   272.0     0.50     5.30    99.00    99.00
11 12 23 12    15.0 1   285.0     0.50     6.60    99.00    99.00
11 12 23 13    15.0 1   289.0     1.00     7.50    99.00    99.00
11 12 23 14    15.0 1   296.0     1.00     8.10    99.00    99.00
11 12 23 15    15.0 1   310.0     1.00     8.30    99.00    99.00
11 12 23 16    15.0 1   318.0     1.00     8.10    99.00    99.00
11 12 23 17    15.0 1   328.0     0.50     7.40    99.00    99.00
11 12 23 18    15.0 1     0.0     0.00     6.10    99.00    99.00
11 12 23 19    15.0 1     0.0     0.00     5.10    99.00    99.00
11 12 23 20    15.0 1     0.0     0.00     4.10    99.00    99.00
11 12 23 21    15.0 1     0.0     0.00     3.10    99.00    99.00
11 12 23 22    15.0 1     0.0     0.00     2.50    99.00    99.00
11 12 23 23    15.0 1     0.0     0.00     2.00    99.00    99.00
11 12 23 24    15.0 1     0.0     0.00     1.50    99.00    99.00
11 12 24  1    15.0 1     0.0     0.00     1.00    99.00    99.00
11 12 24  2    15.0 1     0.0     0.00     0.60    99.00    99.00
11 12 24  3    15.0 1     0.0     0.00     0.30    99.00    99.00
11 12 24  4    15.0 1   274.0     0.50     0.00    99.00    99.00
11 12 24  5    15.0 1   275.0     0.50    -0.30    99.00    99.00
11 12 24  6    15.0 1   282.0     1.00    -0.40    99.00    99.00
11 12 24  7    15.0 1   287.0     0.50    -0.40    99.00    99.00
11 12 24  8    15.0 1   292.0     0.50    -0.50    99.00    99.00
11 12 24  9    15.0 1     0.0     0.00     0.60    99.00    99.00
11 12 24 10    15.0 1   304.0     1.00     4.10    99.00    99.00
11 12 24 11    15.0 1   318.0     0.50     6.10    99.00    99.00
11 12 24 12    15.0 1   343.0     0.50     8.00    99.00    99.00
11 12 24 13    15.0 1   337.0     1.00     9.50    99.00    99.00
11 12 24 14    15.0 1   347.0     1.00    10.40    99.00    99.00
11 12 24 15    15.0 1     5.0     1.50    10.60    99.00    99.00
11 12 24 16    15.0 1    34.0     1.50    10.30    99.00    99.00
11 12 24 17    15.0 1    49.0     2.10     9.40    99.00    99.00
11 12 24 18    15.0 1    66.0     1.00     8.10    99.00    99.00
11 12 24 19    15.0 1   125.0     1.50     6.90    99.00    99.00
11 12 24 20    15.0 1   117.0     2.60     6.30    99.00    99.00
11 12 24 21    15.0 1   100.0     4.60     5.90    99.00    99.00
11 12 24 22    15.0 1    85.0     4.10     5.60    99.00    99.00
11 12 24 23    15.0 1     0.0     0.00     4.60    99.00    99.00
11 12 24 24    15.0 1   343.0     3.60     3.50    99.00    99.00
11 12 25  1    15.0 1   350.0     3.60     2.90    99.00    99.00
11 12 25  2    15.0 1   347.0     2.60     2.50    99.00    99.00
11 12 25  3    15.0 1   340.0     1.50     2.10    99.00    99.00
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11 12 25  4    15.0 1   290.0     1.00     1.80    99.00    99.00
11 12 25  5    15.0 1   259.0     0.50     1.60    99.00    99.00
11 12 25  6    15.0 1    91.0     0.50     1.30    99.00    99.00
11 12 25  7    15.0 1    79.0     1.00     0.90    99.00    99.00
11 12 25  8    15.0 1    47.0     0.50     0.50    99.00    99.00
11 12 25  9    15.0 1     0.0     0.00     1.50    99.00    99.00
11 12 25 10    15.0 1     0.0     0.00     5.40    99.00    99.00
11 12 25 11    15.0 1   306.0     1.00     8.00    99.00    99.00
11 12 25 12    15.0 1   334.0     1.00     9.60    99.00    99.00
11 12 25 13    15.0 1   330.0     0.50    11.00    99.00    99.00
11 12 25 14    15.0 1   329.0     0.50    12.10    99.00    99.00
11 12 25 15    15.0 1   340.0     1.00    12.50    99.00    99.00
11 12 25 16    15.0 1    13.0     0.50    12.30    99.00    99.00
11 12 25 17    15.0 1     0.0     0.00    11.10    99.00    99.00
11 12 25 18    15.0 1     0.0     0.00     9.50    99.00    99.00
11 12 25 19    15.0 1     0.0     0.00     8.10    99.00    99.00
11 12 25 20    15.0 1     0.0     0.00     6.90    99.00    99.00
11 12 25 21    15.0 1    67.0     0.50     5.80    99.00    99.00
11 12 25 22    15.0 1    77.0     0.50     4.90    99.00    99.00
11 12 25 23    15.0 1    87.0     0.50     4.30    99.00    99.00
11 12 25 24    15.0 1    90.0     0.50     3.60    99.00    99.00
11 12 26  1    15.0 1    76.0     0.50     3.30    99.00    99.00
11 12 26  2    15.0 1     0.0     0.00     2.90    99.00    99.00
11 12 26  3    15.0 1     0.0     0.00     2.60    99.00    99.00
11 12 26  4    15.0 1     0.0     0.00     2.50    99.00    99.00
11 12 26  5    15.0 1     0.0     0.00     2.10    99.00    99.00
11 12 26  6    15.0 1     0.0     0.00     1.90    99.00    99.00
11 12 26  7    15.0 1     0.0     0.00     1.60    99.00    99.00
11 12 26  8    15.0 1     0.0     0.00     1.50    99.00    99.00
11 12 26  9    15.0 1     0.0     0.00     2.60    99.00    99.00
11 12 26 10    15.0 1   314.0     1.00     6.50    99.00    99.00
11 12 26 11    15.0 1   297.0     1.00     8.30    99.00    99.00
11 12 26 12    15.0 1   298.0     0.50    10.00    99.00    99.00
11 12 26 13    15.0 1   309.0     1.00    11.60    99.00    99.00
11 12 26 14    15.0 1   317.0     1.50    12.40    99.00    99.00
11 12 26 15    15.0 1   333.0     2.10    12.60    99.00    99.00
11 12 26 16    15.0 1   328.0     2.10    14.10    99.00    99.00
11 12 26 17    15.0 1   328.0     1.00    13.40    99.00    99.00
11 12 26 18    15.0 1   302.0     0.50    12.40    99.00    99.00
11 12 26 19    15.0 1   312.0     0.50    11.40    99.00    99.00
11 12 26 20    15.0 1   292.0     0.50    10.40    99.00    99.00
11 12 26 21    15.0 1   295.0     1.00     9.50    99.00    99.00
11 12 26 22    15.0 1   305.0     1.50     8.90    99.00    99.00
11 12 26 23    15.0 1   323.0     2.10     8.30    99.00    99.00
11 12 26 24    15.0 1   329.0     1.50     7.60    99.00    99.00
11 12 27  1    15.0 1   330.0     1.00     7.00    99.00    99.00
11 12 27  2    15.0 1   312.0     0.50     6.50    99.00    99.00
11 12 27  3    15.0 1   314.0     0.50     6.00    99.00    99.00
11 12 27  4    15.0 1     0.0     0.00     5.40    99.00    99.00
11 12 27  5    15.0 1     0.0     0.00     4.80    99.00    99.00
11 12 27  6    15.0 1     0.0     0.00     4.10    99.00    99.00
11 12 27  7    15.0 1     0.0     0.00     3.60    99.00    99.00
11 12 27  8    15.0 1     0.0     0.00     3.50    99.00    99.00
11 12 27  9    15.0 1     0.0     0.00     5.00    99.00    99.00
11 12 27 10    15.0 1   332.0     0.50     7.10    99.00    99.00
11 12 27 11    15.0 1   331.0     0.50     9.00    99.00    99.00
11 12 27 12    15.0 1   318.0     0.50    10.10    99.00    99.00
11 12 27 13    15.0 1   323.0     0.50    11.10    99.00    99.00
11 12 27 14    15.0 1   322.0     0.50    11.80    99.00    99.00
11 12 27 15    15.0 1   342.0     1.00    12.10    99.00    99.00
11 12 27 16    15.0 1   350.0     1.50    12.10    99.00    99.00
11 12 27 17    15.0 1    16.0     1.50    11.30    99.00    99.00
11 12 27 18    15.0 1    41.0     1.50    10.10    99.00    99.00
11 12 27 19    15.0 1    31.0     0.50     9.10    99.00    99.00
11 12 27 20    15.0 1     0.0     0.00     8.10    99.00    99.00
11 12 27 21    15.0 1     0.0     0.00     7.40    99.00    99.00
11 12 27 22    15.0 1     0.0     0.00     6.80    99.00    99.00
11 12 27 23    15.0 1     0.0     0.00     6.10    99.00    99.00
11 12 27 24    15.0 1     0.0     0.00     5.60    99.00    99.00
11 12 28  1    15.0 1     0.0     0.00     5.10    99.00    99.00
11 12 28  2    15.0 1     0.0     0.00     4.80    99.00    99.00
11 12 28  3    15.0 1    98.0     0.50     4.50    99.00    99.00
11 12 28  4    15.0 1   108.0     1.00     4.30    99.00    99.00
11 12 28  5    15.0 1   124.0     1.00     4.10    99.00    99.00
11 12 28  6    15.0 1   126.0     1.50     4.10    99.00    99.00
11 12 28  7    15.0 1   133.0     1.50     4.00    99.00    99.00
11 12 28  8    15.0 1   116.0     1.50     3.50    99.00    99.00
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11 12 28  9    15.0 1   103.0     0.50     4.60    99.00    99.00
11 12 28 10    15.0 1     0.0     0.00     8.10    99.00    99.00
11 12 28 11    15.0 1     0.0     0.00    10.60    99.00    99.00
11 12 28 12    15.0 1     0.0     0.00    12.50    99.00    99.00
11 12 28 13    15.0 1   316.0     0.50    13.80    99.00    99.00
11 12 28 14    15.0 1   332.0     1.00    14.50    99.00    99.00
11 12 28 15    15.0 1   336.0     1.50    14.80    99.00    99.00
11 12 28 16    15.0 1    10.0     1.50    14.50    99.00    99.00
11 12 28 17    15.0 1    35.0     1.00    13.60    99.00    99.00
11 12 28 18    15.0 1    81.0     0.50    12.50    99.00    99.00
11 12 28 19    15.0 1   144.0     1.00    11.40    99.00    99.00
11 12 28 20    15.0 1   138.0     1.50    10.60    99.00    99.00
11 12 28 21    15.0 1   126.0     1.00     9.90    99.00    99.00
11 12 28 22    15.0 1   106.0     1.00     9.30    99.00    99.00
11 12 28 23    15.0 1   104.0     1.00     8.60    99.00    99.00
11 12 28 24    15.0 1    88.0     0.50     8.10    99.00    99.00
11 12 29  1    15.0 1     0.0     0.00     7.80    99.00    99.00
11 12 29  2    15.0 1     0.0     0.00     7.40    99.00    99.00
11 12 29  3    15.0 1     0.0     0.00     7.10    99.00    99.00
11 12 29  4    15.0 1     0.0     0.00     6.80    99.00    99.00
11 12 29  5    15.0 1     0.0     0.00     6.60    99.00    99.00
11 12 29  6    15.0 1     0.0     0.00     6.40    99.00    99.00
11 12 29  7    15.0 1     0.0     0.00     6.10    99.00    99.00
11 12 29  8    15.0 1     0.0     0.00     6.10    99.00    99.00
11 12 29  9    15.0 1   341.0     0.50     7.90    99.00    99.00
11 12 29 10    15.0 1   332.0     1.00    10.10    99.00    99.00
11 12 29 11    15.0 1   333.0     1.00    11.60    99.00    99.00
11 12 29 12    15.0 1   310.0     1.50    12.90    99.00    99.00
11 12 29 13    15.0 1   316.0     2.10    14.10    99.00    99.00
11 12 29 14    15.0 1   327.0     2.60    14.50    99.00    99.00
11 12 29 15    15.0 1   334.0     3.60    13.90    99.00    99.00
11 12 29 16    15.0 1   336.0     4.10    12.60    99.00    99.00
11 12 29 17    15.0 1   348.0     3.10    11.10    99.00    99.00
11 12 29 18    15.0 1   351.0     2.60    10.50    99.00    99.00
11 12 29 19    15.0 1   346.0     1.50    10.30    99.00    99.00
11 12 29 20    15.0 1   336.0     1.00    10.10    99.00    99.00
11 12 29 21    15.0 1   318.0     0.50    10.10    99.00    99.00
11 12 29 22    15.0 1     0.0     0.00    10.10    99.00    99.00
11 12 29 23    15.0 1     0.0     0.00    10.10    99.00    99.00
11 12 29 24    15.0 1     0.0     0.00    10.10    99.00    99.00
11 12 30  1    15.0 1     0.0     0.00     9.90    99.00    99.00
11 12 30  2    15.0 1     0.0     0.00     9.80    99.00    99.00
11 12 30  3    15.0 1     0.0     0.00     9.60    99.00    99.00
11 12 30  4    15.0 1    84.0     0.50     9.40    99.00    99.00
11 12 30  5    15.0 1   112.0     0.50     9.30    99.00    99.00
11 12 30  6    15.0 1   127.0     0.50     9.30    99.00    99.00
11 12 30  7    15.0 1   136.0     1.00     9.30    99.00    99.00
11 12 30  8    15.0 1   139.0     1.00     9.30    99.00    99.00
11 12 30  9    15.0 1   129.0     1.00     9.40    99.00    99.00
11 12 30 10    15.0 1   154.0     1.50     9.40    99.00    99.00
11 12 30 11    15.0 1   154.0     1.00     9.60    99.00    99.00
11 12 30 12    15.0 1   116.0     0.50    10.10    99.00    99.00
11 12 30 13    15.0 1     0.0     0.00    11.40    99.00    99.00
11 12 30 14    15.0 1     0.0     0.00    12.40    99.00    99.00
11 12 30 15    15.0 1   341.0     0.50    12.90    99.00    99.00
11 12 30 16    15.0 1   352.0     0.50    12.90    99.00    99.00
11 12 30 17    15.0 1    21.0     1.50    12.40    99.00    99.00
11 12 30 18    15.0 1    28.0     1.00    11.80    99.00    99.00
11 12 30 19    15.0 1   348.0     0.50    11.30    99.00    99.00
11 12 30 20    15.0 1   320.0     1.00    10.60    99.00    99.00
11 12 30 21    15.0 1   297.0     1.00     9.90    99.00    99.00
11 12 30 22    15.0 1   231.0     0.50     8.90    99.00    99.00
11 12 30 23    15.0 1   178.0     1.00     9.80    99.00    99.00
11 12 30 24    15.0 1   168.0     1.00    10.40    99.00    99.00
11 12 31  1    15.0 1    67.0     0.50    10.60    99.00    99.00
11 12 31  2    15.0 1     0.0     0.00    10.90    99.00    99.00
11 12 31  3    15.0 1   325.0     0.50    11.10    99.00    99.00
11 12 31  4    15.0 1   321.0     2.10    11.10    99.00    99.00
11 12 31  5    15.0 1   328.0     3.10    11.00    99.00    99.00
11 12 31  6    15.0 1   344.0     3.60    10.60    99.00    99.00
11 12 31  7    15.0 1   343.0     2.60    10.00    99.00    99.00
11 12 31  8    15.0 1   324.0     1.50     9.10    99.00    99.00
11 12 31  9    15.0 1   303.0     2.10     9.00    99.00    99.00
11 12 31 10    15.0 1   309.0     1.50     9.50    99.00    99.00
11 12 31 11    15.0 1    43.0     0.50    10.80    99.00    99.00
11 12 31 12    15.0 1     0.0     0.00    12.50    99.00    99.00
11 12 31 13    15.0 1     0.0     0.00    13.80    99.00    99.00
```

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11 12 31 14     15.0 1      0.0      0.00     14.60     99.00     99.00
11 12 31 15     15.0 1    315.0      0.50     15.10     99.00     99.00
11 12 31 16     15.0 1      0.0      0.00     16.00     99.00     99.00
11 12 31 17     15.0 1     20.0      0.50     15.30     99.00     99.00
11 12 31 18     15.0 1     17.0      1.00     14.40     99.00     99.00
11 12 31 19     15.0 1      0.0      0.00     13.40     99.00     99.00
11 12 31 20     15.0 1    347.0      1.00     12.40     99.00     99.00
11 12 31 21     15.0 1      9.0      1.50     11.60     99.00     99.00
11 12 31 22     15.0 1     12.0      2.60     11.10     99.00     99.00
11 12 31 23     15.0 1      4.0      2.10     10.90     99.00     99.00
11 12 31 24     15.0 1    338.0      2.10     10.50     99.00     99.00
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H000	POINT	294370	3933385	110.96	1	2.85	761.9	71.23	0.18	1.81258			
H060	POINT	295055	3932950	111.22	1	2.85	761.9	71.23	0.18	1.81258			
H120	POINT	295035	3932150	109.12	1	2.85	761.9	71.23	0.18	1.81258			
H180	POINT	294330	3931755	107.29	1	2.85	761.9	71.23	0.18	1.81258			
H240	POINT	293650	3932190	107.29	1	2.85	761.9	71.23	0.18	1.81258			
H300	POINT	293660	3932990	108.81	1	2.85	761.9	71.23	0.18	1.81258			
O000	POINT	294390	3934185	112.99	1	2.85	761.9	71.23	0.18	1.81258			
O030	POINT	295190	3933935	114	1	2.85	761.9	71.23	0.18	1.81258			
O060	POINT	295765	3933340	113.39	1	2.85	761.9	71.23	0.18	1.81258			
O090	POINT	295965	3932535	112.78	1	2.85	761.9	71.23	0.18	1.81258			
O120	POINT	295730	3931730	110.17	1	2.85	761.9	71.23	0.18	1.81258			
O150	POINT	295120	3931150	107.6	1	2.85	761.9	71.23	0.18	1.81258			
O180	POINT	294315	3930970	105.77	1	2.85	761.9	71.23	0.18	1.81258			
O210	POINT	293510	3931195	104.85	1	2.85	761.9	71.23	0.18	1.81258			
O240	POINT	292935	3931800	105.63	1	2.85	761.9	71.23	0.18	1.81258			
O270	POINT	292735	3932615	106.68	1	2.85	761.9	71.23	0.18	1.81258			
O300	POINT	292970	3933405	108	1	2.85	761.9	71.23	0.18	1.81258			
O330	POINT	293565	3933980	110.73	1	2.85	761.9	71.23	0.18	1.81258			
SH000	AREA	294370	3933385	110.96	0.01	0					10	10	0
SH060	AREA	295055	3932950	111.22	0.01	0					10	10	0
SH120	AREA	295035	3932150	109.12	0.01	0					10	10	0
SH180	AREA	294330	3931775	107.29	0.01	0					10	10	0
SH240	AREA	293650	3932190	107.29	0.01	0					10	10	0
SH300	AREA	293660	3932990	108.81	0.01	0					10	10	0
SO000	AREA	294390	3934185	112.99	0.01	0					10	10	0
SO030	AREA	295190	3933935	114	0.01	0					10	10	0
SO060	AREA	295765	3933340	113.39	0.01	0					10	10	0
SO090	AREA	295965	3932535	112.78	0.01	0					10	10	0
SO120	AREA	295730	3931730	110.17	0.01	0					10	10	0
SO150	AREA	295120	3931150	107.6	0.01	0					10	10	0
SO180	AREA	294315	3930970	105.77	0.01	0					10	10	0
SO210	AREA	293510	3931195	104.85	0.01	0					10	10	0
SO240	AREA	292935	3931800	105.63	0.01	0					10	10	0
SO270	AREA	292735	3932615	106.68	0.01	0					10	10	0
SO300	AREA	292970	3933405	108	0.01	0					10	10	0
SO330	AREA	293565	3933980	110.73	0.01	0					10	10	0
E_SW	POINT	294080	3932325	108.2	1	2.85	761.9	71.23	0.18	1.81258			
E_NW	POINT	294095	3932835	109.42	1	2.85	761.9	71.23	0.18	1.81258			
E_NE	POINT	294630	3932825	110.16	1	2.85	761.9	71.23	0.18	1.81258			
E_SE	POINT	294615	3932310	108.81	1	2.85	761.9	71.23	0.18	1.81258			
SE_SW	AREA	294080	3932325	108.2	0.01	0					10	10	0
SE_NW	AREA	294095	3932835	109.42	0.01	0					10	10	0
SE_NE	AREA	294630	3932825	110.16	0.01	0					10	10	0
SE_SE	AREA	294615	3932310	108.81	0.01	0					10	10	0
E_NNW	POINT	294310	3932890	110.03	1	2.85	761.9	71.23	0.18	1.81258			
E_NNE	POINT	294385	3932890	110.03	1	2.85	761.9	71.23	0.18	1.81258			
E_ENE	POINT	294685	3932610	109.56	1	2.85	761.9	71.23	0.18	1.81258			

E_ESE	POINT	294685	3932535	109.42	1	2.85	761.9	71.23	0.18	1.81258			
E_SSE	POINT	294300	3932260	108.2	1	2.85	761.9	71.23	0.18	1.81258			
E_SSW	POINT	294375	3932260	108.46	1	2.85	761.9	71.23	0.18	1.81258			
E_WSW	POINT	294020	3932540	108.55	1	2.85	761.9	71.23	0.18	1.81258			
E_WNW	POINT	294020	3932615	108.81	1	2.85	761.9	71.23	0.18	1.81258			
SE_NNW	AREA	294310	3932890	110.03	0.01	0					10	10	0
SE_NNE	AREA	294385	3932890	110.03	0.01	0					10	10	0
SE_ENE	AREA	294685	3932610	109.56	0.01	0					10	10	0
SE_ESE	AREA	294685	3932535	109.42	0.01	0					10	10	0
SE_SSE	AREA	294300	3932260	108.2	0.01	0					10	10	0
SE_SSW	AREA	294375	3932260	108.46	0.01	0					10	10	0
SE_WSW	AREA	294020	3932540	108.55	0.01	0					10	10	0
SE_WNW	AREA	294020	3932615	108.81	0.01	0					10	10	0
Q_NNW	POINT	294310	3933095	110.34	1	2.85	761.9	71.23	0.18	1.81258			
Q_NNE	POINT	294385	3933095	110.59	1	2.85	761.9	71.23	0.18	1.81258			
Q_ENE	POINT	294885	3932610	109.9	1	2.85	761.9	71.23	0.18	1.81258			
Q_ESE	POINT	294885	3932535	109.73	1	2.85	761.9	71.23	0.18	1.81258			
Q_SSE	POINT	294300	3932055	107.9	1	2.85	761.9	71.23	0.18	1.81258			
Q_SSW	POINT	294375	3932055	107.9	1	2.85	761.9	71.23	0.18	1.81258			
Q_WSW	POINT	293825	3932540	108.51	1	2.85	761.9	71.23	0.18	1.81258			
Q_WNW	POINT	293825	3932615	108.51	1	2.85	761.9	71.23	0.18	1.81258			
Q_NW	POINT	293960	3932985	109.42	1	2.85	761.9	71.23	0.18	1.81258			
Q_NE	POINT	294775	3932960	110.64	1	2.85	761.9	71.23	0.18	1.81258			
Q_SE	POINT	294750	3932160	108.6	1	2.85	761.9	71.23	0.18	1.81258			
Q_SW	POINT	293925	3932190	107.77	1	2.85	761.9	71.23	0.18	1.81258			
SQ_NNW	AREA	294310	3933095	110.34	0.01	0					10	10	0
SQ_NNE	AREA	294385	3933095	110.59	0.01	0					10	10	0
SQ_ENE	AREA	294885	3932610	109.9	0.01	0					10	10	0
SQ_ESE	AREA	294885	3932535	109.73	0.01	0					10	10	0
SQ_SSE	AREA	294300	3932055	107.9	0.01	0					10	10	0
SQ_SSW	AREA	294375	3932055	107.9	0.01	0					10	10	0
SQ_WSW	AREA	293825	3932540	108.51	0.01	0					10	10	0
SQ_WNW	AREA	293825	3932615	108.51	0.01	0					10	10	0
SQ_NW	AREA	293960	3932985	109.42	0.01	0					10	10	0
SQ_NE	AREA	294775	3932960	110.64	0.01	0					10	10	0
SQ_SE	AREA	294750	3932160	108.6	0.01	0					10	10	0
SQ_SW	AREA	293925	3932190	107.77	0.01	0					10	10	0
H030	POINT	294775	3933255	111.54	1	2.85	761.9	71.23	0.18	1.81258			
H090	POINT	295155	3932555	110.34	1	2.85	761.9	71.23	0.18	1.81258			
H150	POINT	294735	3931865	107.9	1	2.85	761.9	71.23	0.18	1.81258			
H210	POINT	293925	3931885	106.98	1	2.85	761.9	71.23	0.18	1.81258			
H270	POINT	293545	3932600	108.06	1	2.85	761.9	71.23	0.18	1.81258			
H330	POINT	293955	3933275	110.03	1	2.85	761.9	71.23	0.18	1.81258			
SH030	AREA	294775	3933255	111.54	0.01	0					10	10	0
SH090	AREA	295155	3932555	110.34	0.01	0					10	10	0
SH150	AREA	294735	3931865	107.9	0.01	0					10	10	0
SH210	AREA	293925	3931885	106.98	0.01	0					10	10	0

SH270	AREA			293545	3932600	108.06	0.01	0			10	10	0
SH330	AREA			293955	3933275	110.03	0.01	0			10	10	0

H000	\plt\PERIOI\plt\MAX1HRH000.PLT
H060	\plt\PERIOI\plt\MAX1HRH060.PLT
H120	\plt\PERIOI\plt\MAX1HRH120.PLT
H180	\plt\PERIOI\plt\MAX1HRH180.PLT
H240	\plt\PERIOI\plt\MAX1HRH240.PLT
H300	\plt\PERIOI\plt\MAX1HRH300.PLT
O000	\plt\PERIOI\plt\MAX1HRO000.PLT
O030	\plt\PERIOI\plt\MAX1HRO030.PLT
O060	\plt\PERIOI\plt\MAX1HRO060.PLT
O090	\plt\PERIOI\plt\MAX1HRO090.PLT
O120	\plt\PERIOI\plt\MAX1HRO120.PLT
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O180	\plt\PERIOI\plt\MAX1HRO180.PLT
O210	\plt\PERIOI\plt\MAX1HRO210.PLT
O240	\plt\PERIOI\plt\MAX1HRO240.PLT
O270	\plt\PERIOI\plt\MAX1HRO270.PLT
O300	\plt\PERIOI\plt\MAX1HRO300.PLT
O330	\plt\PERIOI\plt\MAX1HRO330.PLT
SH000	\plt\PERIOI\plt\MAX1HRSH000.PLT
SH060	\plt\PERIOI\plt\MAX1HRSH060.PLT
SH120	\plt\PERIOI\plt\MAX1HRSH120.PLT
SH180	\plt\PERIOI\plt\MAX1HRSH180.PLT
SH240	\plt\PERIOI\plt\MAX1HRSH240.PLT
SH300	\plt\PERIOI\plt\MAX1HRSH300.PLT
SO000	\plt\PERIOI\plt\MAX1HRSO000.PLT
SO030	\plt\PERIOI\plt\MAX1HRSO030.PLT
SO060	\plt\PERIOI\plt\MAX1HRSO060.PLT
SO090	\plt\PERIOI\plt\MAX1HRSO090.PLT
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SO300	\plt\PERIOI\plt\MAX1HRSO300.PLT
SO330	\plt\PERIOI\plt\MAX1HRSO330.PLT
E_SW	\plt\PERIOI\plt\MAX1HRE_SW.PLT
E_NW	\plt\PERIOI\plt\MAX1HRE_NW.PLT
E_NE	\plt\PERIOI\plt\MAX1HRE_NE.PLT
E_SE	\plt\PERIOI\plt\MAX1HRE_SE.PLT
SE_SW	\plt\PERIOI\plt\MAX1HRSE_SW.PLT
SE_NW	\plt\PERIOI\plt\MAX1HRSE_NW.PLT
SE_NE	\plt\PERIOI\plt\MAX1HRSE_NE.PLT
SE_SE	\plt\PERIOI\plt\MAX1HRSE_SE.PLT
E_NNW	\plt\PERIOI\plt\MAX1HRE_NNW.PLT
E_NNE	\plt\PERIOI\plt\MAX1HRE_NNE.PLT
E_ENE	\plt\PERIOI\plt\MAX1HRE_ENE.PLT

E_ESE \plt\PERIOI\plt\MAX1HRE_ESE.PLT
E_SSE \plt\PERIOI\plt\MAX1HRE_SSE.PLT
E_SSW \plt\PERIOI\plt\MAX1HRE_SSW.PLT
E_WSW \plt\PERIOI\plt\MAX1HRE_WSW.PLT
E_WNW \plt\PERIOI\plt\MAX1HRE_WNW.PLT
SE_NNW \plt\PERIOI\plt\MAX1HRSE_NNW.PLT
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Q_NNW \plt\PERIOI\plt\MAX1HRQ_NNW.PLT
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Q_SE \plt\PERIOI\plt\MAX1HRQ_SE.PLT
Q_SW \plt\PERIOI\plt\MAX1HRQ_SW.PLT
SQ_NNW \plt\PERIOI\plt\MAX1HRSQ_NNW.PLT
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SQ_ENE \plt\PERIOI\plt\MAX1HRSQ_ENE.PLT
SQ_ESE \plt\PERIOI\plt\MAX1HRSQ_ESE.PLT
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SQ_WSW \plt\PERIOI\plt\MAX1HRSQ_WSW.PLT
SQ_WNW \plt\PERIOI\plt\MAX1HRSQ_WNW.PLT
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SQ_NE \plt\PERIOI\plt\MAX1HRSQ_NE.PLT
SQ_SE \plt\PERIOI\plt\MAX1HRSQ_SE.PLT
SQ_SW \plt\PERIOI\plt\MAX1HRSQ_SW.PLT
H030 \plt\PERIOI\plt\MAX1HRH030.PLT
H090 \plt\PERIOI\plt\MAX1HRH090.PLT
H150 \plt\PERIOI\plt\MAX1HRH150.PLT
H210 \plt\PERIOI\plt\MAX1HRH210.PLT
H270 \plt\PERIOI\plt\MAX1HRH270.PLT
H330 \plt\PERIOI\plt\MAX1HRH330.PLT
SH030 \plt\PERIOI\plt\MAX1HRSH030.PLT
SH090 \plt\PERIOI\plt\MAX1HRSH090.PLT
SH150 \plt\PERIOI\plt\MAX1HRSH150.PLT
SH210 \plt\PERIOI\plt\MAX1HRSH210.PLT

SH270 \plt\PERIOI\plt\MAX1HRSH270.PLT
SH330 \plt\PERIOI\plt\MAX1HRSH330.PLT

FALSE	Pasture	0	0	0	0
FALSE	Fish	0	0	0	0
FALSE	Water	0	0	0	0

H000 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRH000.PLT
H060 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRH060.PLT
H120 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRH120.PLT
H180 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRH180.PLT
H240 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRH240.PLT
H300 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRH300.PLT
O000 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRO000.PLT
O030 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRO030.PLT
O060 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRO060.PLT
O090 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRO090.PLT
O120 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRO120.PLT
O150 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRO150.PLT
O180 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRO180.PLT
O210 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRO210.PLT
O240 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRO240.PLT
O270 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRO270.PLT
O300 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRO300.PLT
O330 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRO330.PLT
SH000 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSH000.PLT
SH060 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSH060.PLT
SH120 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSH120.PLT
SH180 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSH180.PLT
SH240 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSH240.PLT
SH300 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSH300.PLT
SO000 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSO000.PLT
SO030 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSO030.PLT
SO060 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSO060.PLT
SO090 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSO090.PLT
SO120 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSO120.PLT
SO150 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSO150.PLT
SO180 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSO180.PLT
SO210 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSO210.PLT
SO240 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSO240.PLT
SO270 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSO270.PLT
SO300 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSO300.PLT
SO330 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSO330.PLT
E_SW C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRE_SW.PLT
E_NW C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRE_NW.PLT
E_NE C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRE_NE.PLT
E_SE C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRE_SE.PLT
SE_SW C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSE_SW.PLT
SE_NW C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSE_NW.PLT
SE_NE C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSE_NE.PLT
SE_SE C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSE_SE.PLT
E_NNW C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRE_NNW.PLT
E_NNE C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRE_NNE.PLT
E_ENE C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRE_ENE.PLT

E_ESE C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRE_ESE.PLT
E_SSE C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRE_SSE.PLT
E_SSW C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRE_SSW.PLT
E_WSW C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRE_WSW.PLT
E_WNW C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRE_WNW.PLT
SE_NNW C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSE_NNW.PLT
SE_NNE C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSE_NNE.PLT
SE_ENE C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSE_ENE.PLT
SE_ESE C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSE_ESE.PLT
SE_SSE C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSE_SSE.PLT
SE_SSW C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSE_SSW.PLT
SE_WSW C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSE_WSW.PLT
SE_WNW C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSE_WNW.PLT
Q_NNW C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRQ_NNW.PLT
Q_NNE C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRQ_NNE.PLT
Q_ENE C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRQ_ENE.PLT
Q_ESE C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRQ_ESE.PLT
Q_SSE C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRQ_SSE.PLT
Q_SSW C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRQ_SSW.PLT
Q_WSW C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRQ_WSW.PLT
Q_WNW C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRQ_WNW.PLT
Q_NW C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRQ_NW.PLT
Q_NE C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRQ_NE.PLT
Q_SE C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRQ_SE.PLT
Q_SW C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRQ_SW.PLT
SQ_NNW C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSQ_NNW.PLT
SQ_NNE C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSQ_NNE.PLT
SQ_ENE C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSQ_ENE.PLT
SQ_ESE C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSQ_ESE.PLT
SQ_SSE C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSQ_SSE.PLT
SQ_SSW C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSQ_SSW.PLT
SQ_WSW C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSQ_WSW.PLT
SQ_WNW C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSQ_WNW.PLT
SQ_NW C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSQ_NW.PLT
SQ_NE C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSQ_NE.PLT
SQ_SE C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSQ_SE.PLT
SQ_SW C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSQ_SW.PLT
H030 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRH030.PLT
H090 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRH090.PLT
H150 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRH150.PLT
H210 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRH210.PLT
H270 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRH270.PLT
H330 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRH330.PLT
SH030 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSH030.PLT
SH090 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSH090.PLT
SH150 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSH150.PLT
SH210 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSH210.PLT

SH270 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSH270.PLT
SH330 C:\LNM\EC C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\plt\MAX1HRSH330.PLT

H000	0	0	9901	DieselExhP	1	16.72	2.22	1
H060	0	0	9901	DieselExhP	1	16.72	2.22	1
H120	0	0	9901	DieselExhP	1	16.72	2.22	1
H180	0	0	9901	DieselExhP	1	16.72	2.22	1
H240	0	0	9901	DieselExhP	1	16.72	2.22	1
H300	0	0	9901	DieselExhP	1	16.72	2.22	1
O000	0	0	9901	DieselExhP	1	16.72	2.22	1
O030	0	0	9901	DieselExhP	1	16.72	2.22	1
O060	0	0	9901	DieselExhP	1	16.72	2.22	1
O090	0	0	9901	DieselExhP	1	16.72	2.22	1
O120	0	0	9901	DieselExhP	1	16.72	2.22	1
O150	0	0	9901	DieselExhP	1	16.72	2.22	1
O180	0	0	9901	DieselExhP	1	16.72	2.22	1
O210	0	0	9901	DieselExhP	1	16.72	2.22	1
O240	0	0	9901	DieselExhP	1	16.72	2.22	1
O270	0	0	9901	DieselExhP	1	16.72	2.22	1
O300	0	0	9901	DieselExhP	1	16.72	2.22	1
O330	0	0	9901	DieselExhP	1	16.72	2.22	1
Q_NNW	0	0	9901	DieselExhP	1	16.72	2.22	1
Q_NNE	0	0	9901	DieselExhP	1	16.72	2.22	1
Q_ENE	0	0	9901	DieselExhP	1	16.72	2.22	1
Q_ESE	0	0	9901	DieselExhP	1	16.72	2.22	1
Q_SSE	0	0	9901	DieselExhP	1	16.72	2.22	1
Q_SSW	0	0	9901	DieselExhP	1	16.72	2.22	1
Q_WSW	0	0	9901	DieselExhP	1	16.72	2.22	1
Q_WNW	0	0	9901	DieselExhP	1	16.72	2.22	1
Q_NW	0	0	9901	DieselExhP	1	16.72	2.22	1
Q_NE	0	0	9901	DieselExhP	1	16.72	2.22	1
Q_SE	0	0	9901	DieselExhP	1	16.72	2.22	1
Q_SW	0	0	9901	DieselExhP	1	16.72	2.22	1
H030	0	0	9901	DieselExhP	1	16.72	2.22	1
H090	0	0	9901	DieselExhP	1	16.72	2.22	1
H150	0	0	9901	DieselExhP	1	16.72	2.22	1
H210	0	0	9901	DieselExhP	1	16.72	2.22	1
H270	0	0	9901	DieselExhP	1	16.72	2.22	1
H330	0	0	9901	DieselExhP	1	16.72	2.22	1
SH000	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-08	1
SH000	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SH000	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SH000	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SH000	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SH000	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SH000	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SH000	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SH060	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-08	1
SH060	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SH060	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1

SH060	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SH060	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SH060	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SH060	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SH060	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SH120	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-08	1
SH120	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SH120	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SH120	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SH120	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SH120	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SH120	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SH120	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SH180	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-08	1
SH180	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SH180	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SH180	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SH180	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SH180	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SH180	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SH180	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SH240	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-08	1
SH240	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SH240	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SH240	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SH240	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SH240	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SH240	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SH240	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SH300	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-08	1
SH300	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SH300	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SH300	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SH300	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SH300	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SH300	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SH300	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SO000	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-08	1
SO000	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SO000	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SO000	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SO000	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SO000	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SO000	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SO000	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SO030	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-08	1
SO030	0	0	71432	Benzene	1	0.0124	1.41E-06	1

SO030	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SO030	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SO030	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SO030	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SO030	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SO030	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SO060	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-08	1
SO060	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SO060	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SO060	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SO060	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SO060	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SO060	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SO060	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SO090	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-08	1
SO090	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SO090	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SO090	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SO090	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SO090	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SO090	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SO090	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SO120	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-08	1
SO120	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SO120	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SO120	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SO120	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SO120	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SO120	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SO120	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SO150	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-08	1
SO150	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SO150	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SO150	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SO150	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SO150	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SO150	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SO150	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SO180	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-08	1
SO180	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SO180	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SO180	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SO180	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SO180	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SO180	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SO180	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SO210	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-08	1

SO210	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SO210	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SO210	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SO210	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SO210	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SO210	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SO210	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SO240	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-08	1
SO240	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SO240	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SO240	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SO240	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SO240	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SO240	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SO240	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SO270	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-08	1
SO270	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SO270	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SO270	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SO270	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SO270	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SO270	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SO270	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SO300	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-08	1
SO300	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SO300	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SO300	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SO300	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SO300	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SO300	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SO300	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SO330	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-08	1
SO330	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SO330	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SO330	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SO330	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SO330	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SO330	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SO330	0	0	7783064	H2S	1	0.000893	1.02E-07	1
E_SW	0	0	9901	DieselExhP	1	16.92	2.22	1
E_NW	0	0	9901	DieselExhP	1	16.92	2.22	1
E_NE	0	0	9901	DieselExhP	1	16.92	2.22	1
E_SE	0	0	9901	DieselExhP	1	16.92	2.22	1
SE_SW	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-07	1
SE_SW	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SE_SW	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SE_SW	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1

SE_SW	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SE_SW	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SE_SW	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SE_SW	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SE_NW	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-07	1
SE_NW	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SE_NW	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SE_NW	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SE_NW	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SE_NW	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SE_NW	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SE_NW	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SE_NE	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-07	1
SE_NE	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SE_NE	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SE_NE	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SE_NE	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SE_NE	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SE_NE	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SE_NE	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SE_SE	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-07	1
SE_SE	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SE_SE	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SE_SE	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SE_SE	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SE_SE	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SE_SE	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SE_SE	0	0	7783064	H2S	1	0.000893	1.02E-07	1
E_NNW	0	0	9901	DieselExhP	1	16.92	2.22	1
E_NNE	0	0	9901	DieselExhP	1	16.92	2.22	1
E_ENE	0	0	9901	DieselExhP	1	16.92	2.22	1
E_ESE	0	0	9901	DieselExhP	1	16.92	2.22	1
E_SSE	0	0	9901	DieselExhP	1	16.92	2.22	1
E_SSW	0	0	9901	DieselExhP	1	16.92	2.22	1
E_WSW	0	0	9901	DieselExhP	1	16.92	2.22	1
E_WNW	0	0	9901	DieselExhP	1	16.92	2.22	1
SE_NNW	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-07	1
SE_NNW	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SE_NNW	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SE_NNW	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SE_NNW	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SE_NNW	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SE_NNW	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SE_NNW	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SE_NNE	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-07	1
SE_NNE	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SE_NNE	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1

SE_NNE	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SE_NNE	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SE_NNE	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SE_NNE	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SE_NNE	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SE_ENE	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-07	1
SE_ENE	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SE_ENE	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SE_ENE	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SE_ENE	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SE_ENE	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SE_ENE	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SE_ESE	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-07	1
SE_ESE	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SE_ESE	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SE_ESE	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SE_ESE	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SE_ESE	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SE_ESE	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SE_ESE	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SE_SSE	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-07	1
SE_SSE	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SE_SSE	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SE_SSE	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SE_SSE	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SE_SSE	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SE_SSE	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SE_SSE	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SE_SSW	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-07	1
SE_SSW	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SE_SSW	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SE_SSW	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SE_SSW	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SE_SSW	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SE_SSW	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SE_SSW	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SE_WSW	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SE_WSW	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SE_WSW	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SE_WSW	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SE_WSW	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SE_WSW	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SE_WSW	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SE_WNW	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-07	1
SE_WNW	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SE_WNW	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SE_WNW	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1

SE_WNW	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SE_WNW	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SE_WNW	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SE_WNW	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SQ_NNW	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-08	1
SQ_NNW	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SQ_NNW	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SQ_NNW	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SQ_NNW	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SQ_NNW	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SQ_NNW	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SQ_NNW	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SQ_NNE	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-08	1
SQ_NNE	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SQ_NNE	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SQ_NNE	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SQ_NNE	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SQ_NNE	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SQ_NNE	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SQ_NNE	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SQ_ENE	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-08	1
SQ_ENE	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SQ_ENE	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SQ_ENE	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SQ_ENE	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SQ_ENE	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SQ_ENE	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SQ_ENE	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SQ_ESE	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-08	1
SQ_ESE	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SQ_ESE	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SQ_ESE	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SQ_ESE	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SQ_ESE	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SQ_ESE	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SQ_ESE	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SQ_SSE	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-08	1
SQ_SSE	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SQ_SSE	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SQ_SSE	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SQ_SSE	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SQ_SSE	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SQ_SSE	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SQ_SSE	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SQ_SSW	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-08	1
SQ_SSW	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SQ_SSW	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1

SQ_SSW	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SQ_SSW	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SQ_SSW	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SQ_SSW	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SQ_SSW	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SQ_WSW	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-08	1
SQ_WSW	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SQ_WSW	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SQ_WSW	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SQ_WSW	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SQ_WSW	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SQ_WSW	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SQ_WSW	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SQ_WNW	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-08	1
SQ_WNW	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SQ_WNW	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SQ_WNW	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SQ_WNW	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SQ_WNW	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SQ_WNW	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SQ_WNW	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SQ_NW	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-08	1
SQ_NW	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SQ_NW	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SQ_NW	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SQ_NW	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SQ_NW	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SQ_NW	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SQ_NW	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SQ_NE	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-08	1
SQ_NE	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SQ_NE	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SQ_NE	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SQ_NE	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SQ_NE	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SQ_NE	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SQ_NE	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SQ_SE	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-08	1
SQ_SE	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SQ_SE	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SQ_SE	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SQ_SE	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SQ_SE	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SQ_SE	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SQ_SE	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SQ_SW	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-08	1
SQ_SW	0	0	71432	Benzene	1	0.0124	1.41E-06	1

SQ_SW	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SQ_SW	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SQ_SW	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SQ_SW	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SQ_SW	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SQ_SW	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SH030	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-08	1
SH030	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SH030	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SH030	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SH030	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SH030	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SH030	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SH030	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SH090	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-08	1
SH090	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SH090	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SH090	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SH090	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SH090	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SH090	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SH090	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SH150	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-08	1
SH150	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SH150	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SH150	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SH150	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SH150	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SH150	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SH150	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SH210	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-08	1
SH210	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SH210	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SH210	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SH210	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SH210	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SH210	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SH210	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SH270	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-08	1
SH270	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SH270	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SH270	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SH270	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SH270	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SH270	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SH270	0	0	7783064	H2S	1	0.000893	1.02E-07	1
SH330	0	0	95636	1,2,4TriMe	1	0.000416	4.75E-08	1

SH330	0	0	71432	Benzene	1	0.0124	1.41E-06	1
SH330	0	0	110827	Cyclohexar	1	0.000605	6.90E-08	1
SH330	0	0	100414	Ethyl Benze	1	0.00394	4.50E-07	1
SH330	0	0	110543	Hexane	1	0.0913	1.04E-05	1
SH330	0	0	108883	Toluene	1	0.0139	1.59E-06	1
SH330	0	0	1330207	Xylenes	1	0.00732	8.36E-07	1
SH330	0	0	7783064	H2S	1	0.000893	1.02E-07	1

R20		9	294350	3932570	294330	3932550	3	20	3	20

9901	DieselExhP	0	0	0
95636	1,2,4TriMe	0	0	0
71432	Benzene	0	0	0
110827	Cyclohexar	0	0	0
100414	Ethyl Benze	0	0	0
110543	Hexane	0	0	0
108883	Toluene	0	0	0
1330207	Xylenes	0	0	0
7783064	H2S	0	0	0

9901	DieselExhP	C:\LNM\EC	C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\glc\9901MAXHR.txt
95636	1,2,4TriMe	C:\LNM\EC	C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\glc\95636MAXHR.txt
71432	Benzene	C:\LNM\EC	C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\glc\71432MAXHR.txt
110827	Cyclohexar	C:\LNM\EC	C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\glc\110827MAXHR.txt
100414	Ethyl Benz	C:\LNM\EC	C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\glc\100414MAXHR.txt
110543	Hexane	C:\LNM\EC	C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\glc\110543MAXHR.txt
108883	Toluene	C:\LNM\EC	C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\glc\108883MAXHR.txt
1330207	Xylenes	C:\LNM\EC	C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\glc\1330207MAXHR.txt
7783064	H2S	C:\LNM\EC	C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\glc\7783064MAXHR.txt

buttonwillow30m.dem
Famoso.dem
rio_bravo30m.dem
rosedale30m.dem
wasco_30m.dem
wasco_sw_30m.dem

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* AERMOD ( 14134):  HARP GENERATED FILE                                          10/07/15
* AERMET ( 14134):                                                              18:08:53
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: ALL
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  _____________  _______  _______  _______  ______  ________  ________  ________
  294330.00000 3932550.00000 3.6659430e-06   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294350.00000 3932550.00000 3.6014690e-06   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294370.00000 3932550.00000 3.5586950e-06   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294330.00000 3932570.00000 3.6673810e-06   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294350.00000 3932570.00000 3.6143000e-06   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294370.00000 3932570.00000 3.5780590e-06   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294330.00000 3932590.00000 3.6782500e-06   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294350.00000 3932590.00000 3.6375320e-06   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294370.00000 3932590.00000 3.6070780e-06   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
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* AERMOD ( 14134):  HARP GENERATED FILE                                          10/07/15
* AERMET ( 14134):                                                              18:08:54
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: ALL
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* _____________ _____________ _____________  _______  _______  _______  _____  _________ _______  ________  ___________
   294330.00000 3932550.00000 5.6576930e-04   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20        00000000
   294350.00000 3932550.00000 5.4298870e-04   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20        00000000
   294370.00000 3932550.00000 5.5183830e-04   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20        00000000
   294330.00000 3932570.00000 5.4184670e-04   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20        00000000
   294350.00000 3932570.00000 5.2554610e-04   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20        00000000
   294370.00000 3932570.00000 5.2882360e-04   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20        00000000
   294330.00000 3932590.00000 5.4429730e-04   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20        00000000
   294350.00000 3932590.00000 5.2640370e-04   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20        00000000
   294370.00000 3932590.00000 5.2445420e-04   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20        00000000
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* AERMOD ( 14134):  HARP GENERATED FILE                                          10/07/15
* AERMET ( 14134):                                                              18:08:53
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: ALL
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  _____________  _______  _______  _______  ______  ________  ________  ________
  294330.00000 3932550.00000 3.0050050e-05   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294350.00000 3932550.00000 2.9521560e-05   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294370.00000 3932550.00000 2.9170940e-05   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294330.00000 3932570.00000 3.0061850e-05   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294350.00000 3932570.00000 2.9626730e-05   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294370.00000 3932570.00000 2.9329660e-05   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294330.00000 3932590.00000 3.0150940e-05   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294350.00000 3932590.00000 2.9817170e-05   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294370.00000 3932590.00000 2.9567540e-05   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
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* AERMOD ( 14134):  HARP GENERATED FILE                                          10/07/15
* AERMET ( 14134):                                                              18:08:54
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: ALL
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* _____________ _____________ _____________  _______  _______  _______  _____  _________  ________  ________  __________
   294330.00000 3932550.00000 4.6370900e-03   109.10   109.10     0.00    1-HR  CARTGRID    1ST      R20       00000000
   294350.00000 3932550.00000 4.4503780e-03   109.10   109.10     0.00    1-HR  CARTGRID    1ST      R20       00000000
   294370.00000 3932550.00000 4.5229110e-03   109.10   109.10     0.00    1-HR  CARTGRID    1ST      R20       00000000
   294330.00000 3932570.00000 4.4410180e-03   109.10   109.10     0.00    1-HR  CARTGRID    1ST      R20       00000000
   294350.00000 3932570.00000 4.3074170e-03   109.10   109.10     0.00    1-HR  CARTGRID    1ST      R20       00000000
   294370.00000 3932570.00000 4.3342810e-03   109.10   109.10     0.00    1-HR  CARTGRID    1ST      R20       00000000
   294330.00000 3932590.00000 4.4611040e-03   109.10   109.10     0.00    1-HR  CARTGRID    1ST      R20       00000000
   294350.00000 3932590.00000 4.3144460e-03   109.10   109.10     0.00    1-HR  CARTGRID    1ST      R20       00000000
   294370.00000 3932590.00000 4.2984670e-03   109.10   109.10     0.00    1-HR  CARTGRID    1ST      R20       00000000
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```
* AERMOD ( 14134):  HARP GENERATED FILE                                          10/07/15
* AERMET ( 14134):                                                              18:08:53
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: ALL
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  _____________  _______  _______  _______  ______  ________  ________  ________
  294330.00000 3932550.00000 2.4836450e-06   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294350.00000 3932550.00000 2.4399650e-06   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294370.00000 3932550.00000 2.4109860e-06   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294330.00000 3932570.00000 2.4846190e-06   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294350.00000 3932570.00000 2.4486580e-06   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294370.00000 3932570.00000 2.4241050e-06   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294330.00000 3932590.00000 2.4919830e-06   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294350.00000 3932590.00000 2.4643980e-06   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294370.00000 3932590.00000 2.4437650e-06   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
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* AERMOD ( 14134):  HARP GENERATED FILE                                          10/07/15
* AERMET ( 14134):                                                              18:08:54
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: ALL
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* _____________ _____________ _____________  _______  _______  _______  _____  _________ _______  ________  ___________
   294330.00000 3932550.00000 3.8272630e-04   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20        00000000
   294350.00000 3932550.00000 3.6731590e-04   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20        00000000
   294370.00000 3932550.00000 3.7330250e-04   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20        00000000
   294330.00000 3932570.00000 3.6654330e-04   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20        00000000
   294350.00000 3932570.00000 3.5551660e-04   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20        00000000
   294370.00000 3932570.00000 3.5773360e-04   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20        00000000
   294330.00000 3932590.00000 3.6820110e-04   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20        00000000
   294350.00000 3932590.00000 3.5609670e-04   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20        00000000
   294370.00000 3932590.00000 3.5477780e-04   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20        00000000
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* AERMOD ( 14134):  HARP GENERATED FILE                                          10/07/15
* AERMET ( 14134):                                                              18:08:53
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: ALL
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  _____________  _______  _______  _______  ______  ________  ________  ________
  294330.00000 3932550.00000 3.7480460e-04   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294350.00000 3932550.00000 3.6821290e-04   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294370.00000 3932550.00000 3.6383970e-04   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294330.00000 3932570.00000 3.7495170e-04   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294350.00000 3932570.00000 3.6952470e-04   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294370.00000 3932570.00000 3.6581940e-04   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294330.00000 3932590.00000 3.7606300e-04   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294350.00000 3932590.00000 3.7189990e-04   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294370.00000 3932590.00000 3.6878630e-04   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
```

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* AERMOD ( 14134):  HARP GENERATED FILE                                          10/07/15
* AERMET ( 14134):                                                              18:08:54
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: ALL
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  _____________  _______  _______  _______  _____  ________  ________  ________  ___________
   294330.00000 3932550.00000 5.7686290e-02   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20        00000000
   294350.00000 3932550.00000 5.5363550e-02   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20        00000000
   294370.00000 3932550.00000 5.6265870e-02   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20        00000000
   294330.00000 3932570.00000 5.5247100e-02   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20        00000000
   294350.00000 3932570.00000 5.3585100e-02   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20        00000000
   294370.00000 3932570.00000 5.3919270e-02   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20        00000000
   294330.00000 3932590.00000 5.5496990e-02   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20        00000000
   294350.00000 3932590.00000 5.3672540e-02   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20        00000000
   294370.00000 3932590.00000 5.3473760e-02   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20        00000000
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* AERMOD ( 14134):  HARP GENERATED FILE                                          10/07/15
* AERMET ( 14134):                                                              18:08:53
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: ALL
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  _____________  _______  _______  _______  ______  ________  ________  ________
  294330.00000 3932550.00000 5.7062260e-05   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294350.00000 3932550.00000 5.6058700e-05   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294370.00000 3932550.00000 5.5392900e-05   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294330.00000 3932570.00000 5.7084660e-05   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294350.00000 3932570.00000 5.6258420e-05   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294370.00000 3932570.00000 5.5694310e-05   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294330.00000 3932590.00000 5.7253830e-05   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294350.00000 3932590.00000 5.6620040e-05   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294370.00000 3932590.00000 5.6146000e-05   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
```

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* AERMOD ( 14134):  HARP GENERATED FILE                                          10/07/15
* AERMET ( 14134):                                                              18:08:54
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: ALL
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* _____________ _____________ _____________  _______  _______  _______  _____  _________  ________  ________  ________
   294330.00000 3932550.00000 8.8193450e-03   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20       00000000
   294350.00000 3932550.00000 8.4642360e-03   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20       00000000
   294370.00000 3932550.00000 8.6021840e-03   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20       00000000
   294330.00000 3932570.00000 8.4464350e-03   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20       00000000
   294350.00000 3932570.00000 8.1923380e-03   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20       00000000
   294370.00000 3932570.00000 8.2434280e-03   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20       00000000
   294330.00000 3932590.00000 8.4846340e-03   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20       00000000
   294350.00000 3932590.00000 8.2057040e-03   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20       00000000
   294370.00000 3932590.00000 8.1753150e-03   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20       00000000
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* AERMOD ( 14134):  HARP GENERATED FILE                                          10/07/15
* AERMET ( 14134):                                                              18:08:53
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: ALL
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  _____________  _______  _______  _______  ______  ________  ________  ________
  294330.00000 3932550.00000 1.5814380e-05   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294350.00000 3932550.00000 1.5494920e-05   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294370.00000 3932550.00000 1.5265850e-05   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294330.00000 3932570.00000 1.5812210e-05   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294350.00000 3932570.00000 1.5541390e-05   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294370.00000 3932570.00000 1.5338680e-05   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294330.00000 3932590.00000 1.5849320e-05   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294350.00000 3932590.00000 1.5631930e-05   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294370.00000 3932590.00000 1.5453230e-05   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
```

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* AERMOD ( 14134):  HARP GENERATED FILE                                          10/07/15
* AERMET ( 14134):                                                              18:08:54
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: ALL
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  _____________  _______  _______  _______  _____  ________  ________  ________  ___________
   294330.00000 3932550.00000 2.4102590e-03   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20        00000000
   294350.00000 3932550.00000 2.3043150e-03   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20        00000000
   294370.00000 3932550.00000 2.3337350e-03   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20        00000000
   294330.00000 3932570.00000 2.2971720e-03   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20        00000000
   294350.00000 3932570.00000 2.2167510e-03   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20        00000000
   294370.00000 3932570.00000 2.2220100e-03   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20        00000000
   294330.00000 3932590.00000 2.2983120e-03   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20        00000000
   294350.00000 3932590.00000 2.2140130e-03   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20        00000000
   294370.00000 3932590.00000 2.1976290e-03   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20        00000000
```

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* AERMOD ( 14134):  HARP GENERATED FILE                                          10/07/15
* AERMET ( 14134):                                                              18:08:53
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: ALL
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  _____________   ______   ______   ______  ______  ________  ________  ________
  294330.00000 3932550.00000 1.5550420e-06   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294350.00000 3932550.00000 1.5407510e-06   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294370.00000 3932550.00000 1.5341130e-06   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294330.00000 3932570.00000 1.5669750e-06   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294350.00000 3932570.00000 1.5560750e-06   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294370.00000 3932570.00000 1.5509670e-06   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294330.00000 3932590.00000 1.5840870e-06   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294350.00000 3932590.00000 1.5772870e-06   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294370.00000 3932590.00000 1.5735450e-06   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
```

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* AERMOD ( 14134):  HARP GENERATED FILE                                          10/07/15
* AERMET ( 14134):                                                              18:08:54
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: ALL
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________ ____________ _____________   ______   ______   ______   ____   ________  ________  ________  ________
   294330.00000 3932550.00000 1.3671530e-03   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20       00000000
   294350.00000 3932550.00000 1.2781460e-03   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20       00000000
   294370.00000 3932550.00000 1.3338300e-03   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20       00000000
   294330.00000 3932570.00000 1.2710160e-03   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20       00000000
   294350.00000 3932570.00000 1.2304380e-03   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20       00000000
   294370.00000 3932570.00000 1.2562650e-03   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20       00000000
   294330.00000 3932590.00000 1.3024030e-03   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20       00000000
   294350.00000 3932590.00000 1.2486180e-03   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20       00000000
   294370.00000 3932590.00000 1.2601060e-03   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20       00000000
```

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* AERMOD ( 14134):  HARP GENERATED FILE                                          10/07/15
* AERMET ( 14134):                                                              18:08:53
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: ALL
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
  294330.00000 3932550.00000 5.0904460e-05   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294350.00000 3932550.00000 5.0009200e-05   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294370.00000 3932550.00000 4.9415250e-05   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294330.00000 3932570.00000 5.0924440e-05   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294350.00000 3932570.00000 5.0187360e-05   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294370.00000 3932570.00000 4.9684130e-05   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294330.00000 3932590.00000 5.1075370e-05   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294350.00000 3932590.00000 5.0509960e-05   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294370.00000 3932590.00000 5.0087080e-05   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
```

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* AERMOD ( 14134):  HARP GENERATED FILE                                          10/07/15
* AERMET ( 14134):                                                              18:08:54
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: ALL
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________ ____________ _____________   ______   ______   ______   ____   ________  ________  ________  ________
   294330.00000 3932550.00000 7.8209280e-03   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20       00000000
   294350.00000 3932550.00000 7.5060200e-03   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20       00000000
   294370.00000 3932550.00000 7.6283530e-03   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20       00000000
   294330.00000 3932570.00000 7.4902330e-03   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20       00000000
   294350.00000 3932570.00000 7.2649020e-03   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20       00000000
   294370.00000 3932570.00000 7.3102100e-03   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20       00000000
   294330.00000 3932590.00000 7.5241100e-03   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20       00000000
   294350.00000 3932590.00000 7.2767590e-03   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20       00000000
   294370.00000 3932590.00000 7.2498090e-03   109.10   109.10     0.00   1-HR  CARTGRID    1ST     R20       00000000
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* AERMOD ( 14134):  HARP GENERATED FILE                                          10/07/15
* AERMET ( 14134):                                                              18:08:53
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: ALL
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  _____________  _______  _______  _______  ______  ________  ________  ________
  294330.00000 3932550.00000 9.4628510e-03   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294350.00000 3932550.00000 9.4392740e-03   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294370.00000 3932550.00000 9.4375890e-03   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294330.00000 3932570.00000 9.3737640e-03   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294350.00000 3932570.00000 9.3642910e-03   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294370.00000 3932570.00000 9.3759300e-03   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294330.00000 3932590.00000 9.2587450e-03   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294350.00000 3932590.00000 9.2703740e-03   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
  294370.00000 3932590.00000 9.3020920e-03   109.10   109.10     0.00  PERIOD  CARTGRID  00043824  R20
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* AERMOD ( 14134):  HARP GENERATED FILE                                          10/07/15
* AERMET ( 14134):                                                              18:08:53
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: ALL
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________ ____________ _____________   ______   ______   ______   _____  ________  ________  ________  ________
   294330.00000 3932550.00000 4.6250410e+02   109.10   109.10     0.00    1-HR  CARTGRID    1ST     R20       00000000
   294350.00000 3932550.00000 4.5835720e+02   109.10   109.10     0.00    1-HR  CARTGRID    1ST     R20       00000000
   294370.00000 3932550.00000 4.5233170e+02   109.10   109.10     0.00    1-HR  CARTGRID    1ST     R20       00000000
   294330.00000 3932570.00000 4.5814540e+02   109.10   109.10     0.00    1-HR  CARTGRID    1ST     R20       00000000
   294350.00000 3932570.00000 4.5754370e+02   109.10   109.10     0.00    1-HR  CARTGRID    1ST     R20       00000000
   294370.00000 3932570.00000 4.5269670e+02   109.10   109.10     0.00    1-HR  CARTGRID    1ST     R20       00000000
   294330.00000 3932590.00000 4.5347570e+02   109.10   109.10     0.00    1-HR  CARTGRID    1ST     R20       00000000
   294350.00000 3932590.00000 4.5529420e+02   109.10   109.10     0.00    1-HR  CARTGRID    1ST     R20       00000000
   294370.00000 3932590.00000 4.5323910e+02   109.10   109.10     0.00    1-HR  CARTGRID    1ST     R20       00000000
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SQ_WSW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000      11.00421   109.10   109.10     0.00  PERIOD  SQ_WSW    00043824  R20
   294350.00000 3932550.00000      10.29866   109.10   109.10     0.00  PERIOD  SQ_WSW    00043824  R20
   294370.00000 3932550.00000       9.66213   109.10   109.10     0.00  PERIOD  SQ_WSW    00043824  R20
   294330.00000 3932570.00000      10.60000   109.10   109.10     0.00  PERIOD  SQ_WSW    00043824  R20
   294350.00000 3932570.00000       9.94459   109.10   109.10     0.00  PERIOD  SQ_WSW    00043824  R20
   294370.00000 3932570.00000       9.35244   109.10   109.10     0.00  PERIOD  SQ_WSW    00043824  R20
   294330.00000 3932590.00000       9.98475   109.10   109.10     0.00  PERIOD  SQ_WSW    00043824  R20
   294350.00000 3932590.00000       9.39186   109.10   109.10     0.00  PERIOD  SQ_WSW    00043824  R20
   294370.00000 3932590.00000       8.85627   109.10   109.10     0.00  PERIOD  SQ_WSW    00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SQ_WNW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000      12.70334   109.10   109.10     0.00  PERIOD  SQ_WNW    00043824  R20
   294350.00000 3932550.00000      11.83854   109.10   109.10     0.00  PERIOD  SQ_WNW    00043824  R20
   294370.00000 3932550.00000      11.06273   109.10   109.10     0.00  PERIOD  SQ_WNW    00043824  R20
   294330.00000 3932570.00000      12.18576   109.10   109.10     0.00  PERIOD  SQ_WNW    00043824  R20
   294350.00000 3932570.00000      11.35463   109.10   109.10     0.00  PERIOD  SQ_WNW    00043824  R20
   294370.00000 3932570.00000      10.60366   109.10   109.10     0.00  PERIOD  SQ_WNW    00043824  R20
   294330.00000 3932590.00000      11.61735   109.10   109.10     0.00  PERIOD  SQ_WNW    00043824  R20
   294350.00000 3932590.00000      10.83229   109.10   109.10     0.00  PERIOD  SQ_WNW    00043824  R20
   294370.00000 3932590.00000      10.13348   109.10   109.10     0.00  PERIOD  SQ_WNW    00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SQ_SW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       3.38290   109.10   109.10     0.00  PERIOD  SQ_SW     00043824  R20
   294350.00000 3932550.00000       3.27510   109.10   109.10     0.00  PERIOD  SQ_SW     00043824  R20
   294370.00000 3932550.00000       3.17494   109.10   109.10     0.00  PERIOD  SQ_SW     00043824  R20
   294330.00000 3932570.00000       3.18429   109.10   109.10     0.00  PERIOD  SQ_SW     00043824  R20
   294350.00000 3932570.00000       3.09726   109.10   109.10     0.00  PERIOD  SQ_SW     00043824  R20
   294370.00000 3932570.00000       3.00435   109.10   109.10     0.00  PERIOD  SQ_SW     00043824  R20
   294330.00000 3932590.00000       2.98893   109.10   109.10     0.00  PERIOD  SQ_SW     00043824  R20
   294350.00000 3932590.00000       2.92364   109.10   109.10     0.00  PERIOD  SQ_SW     00043824  R20
   294370.00000 3932590.00000       2.84883   109.10   109.10     0.00  PERIOD  SQ_SW     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SQ_SSW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       3.38563   109.10   109.10     0.00  PERIOD  SQ_SSW    00043824  R20
   294350.00000 3932550.00000       3.24519   109.10   109.10     0.00  PERIOD  SQ_SSW    00043824  R20
   294370.00000 3932550.00000       3.12517   109.10   109.10     0.00  PERIOD  SQ_SSW    00043824  R20
   294330.00000 3932570.00000       3.14968   109.10   109.10     0.00  PERIOD  SQ_SSW    00043824  R20
   294350.00000 3932570.00000       3.02396   109.10   109.10     0.00  PERIOD  SQ_SSW    00043824  R20
   294370.00000 3932570.00000       2.91777   109.10   109.10     0.00  PERIOD  SQ_SSW    00043824  R20
   294330.00000 3932590.00000       2.93820   109.10   109.10     0.00  PERIOD  SQ_SSW    00043824  R20
   294350.00000 3932590.00000       2.82535   109.10   109.10     0.00  PERIOD  SQ_SSW    00043824  R20
   294370.00000 3932590.00000       2.73156   109.10   109.10     0.00  PERIOD  SQ_SSW    00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SQ_SSE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       2.99686   109.10   109.10     0.00  PERIOD  SQ_SSE    00043824  R20
   294350.00000 3932550.00000       2.99419   109.10   109.10     0.00  PERIOD  SQ_SSE    00043824  R20
   294370.00000 3932550.00000       3.01335   109.10   109.10     0.00  PERIOD  SQ_SSE    00043824  R20
   294330.00000 3932570.00000       2.80130   109.10   109.10     0.00  PERIOD  SQ_SSE    00043824  R20
   294350.00000 3932570.00000       2.79640   109.10   109.10     0.00  PERIOD  SQ_SSE    00043824  R20
   294370.00000 3932570.00000       2.81485   109.10   109.10     0.00  PERIOD  SQ_SSE    00043824  R20
   294330.00000 3932590.00000       2.62536   109.10   109.10     0.00  PERIOD  SQ_SSE    00043824  R20
   294350.00000 3932590.00000       2.61847   109.10   109.10     0.00  PERIOD  SQ_SSE    00043824  R20
   294370.00000 3932590.00000       2.63601   109.10   109.10     0.00  PERIOD  SQ_SSE    00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SQ_SE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       4.16125   109.10   109.10     0.00  PERIOD  SQ_SE     00043824  R20
   294350.00000 3932550.00000       4.29575   109.10   109.10     0.00  PERIOD  SQ_SE     00043824  R20
   294370.00000 3932550.00000       4.45130   109.10   109.10     0.00  PERIOD  SQ_SE     00043824  R20
   294330.00000 3932570.00000       3.94640   109.10   109.10     0.00  PERIOD  SQ_SE     00043824  R20
   294350.00000 3932570.00000       4.08350   109.10   109.10     0.00  PERIOD  SQ_SE     00043824  R20
   294370.00000 3932570.00000       4.22471   109.10   109.10     0.00  PERIOD  SQ_SE     00043824  R20
   294330.00000 3932590.00000       3.76177   109.10   109.10     0.00  PERIOD  SQ_SE     00043824  R20
   294350.00000 3932590.00000       3.88723   109.10   109.10     0.00  PERIOD  SQ_SE     00043824  R20
   294370.00000 3932590.00000       3.99504   109.10   109.10     0.00  PERIOD  SQ_SE     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SQ_NW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000      11.48492   109.10   109.10     0.00  PERIOD  SQ_NW     00043824  R20
   294350.00000 3932550.00000      11.16511   109.10   109.10     0.00  PERIOD  SQ_NW     00043824  R20
   294370.00000 3932550.00000      10.86255   109.10   109.10     0.00  PERIOD  SQ_NW     00043824  R20
   294330.00000 3932570.00000      12.13172   109.10   109.10     0.00  PERIOD  SQ_NW     00043824  R20
   294350.00000 3932570.00000      11.78184   109.10   109.10     0.00  PERIOD  SQ_NW     00043824  R20
   294370.00000 3932570.00000      11.43459   109.10   109.10     0.00  PERIOD  SQ_NW     00043824  R20
   294330.00000 3932590.00000      12.83552   109.10   109.10     0.00  PERIOD  SQ_NW     00043824  R20
   294350.00000 3932590.00000      12.43474   109.10   109.10     0.00  PERIOD  SQ_NW     00043824  R20
   294370.00000 3932590.00000      12.02094   109.10   109.10     0.00  PERIOD  SQ_NW     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SQ_NNW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       6.80325   109.10   109.10     0.00  PERIOD  SQ_NNW    00043824  R20
   294350.00000 3932550.00000       7.37171   109.10   109.10     0.00  PERIOD  SQ_NNW    00043824  R20
   294370.00000 3932550.00000       8.06368   109.10   109.10     0.00  PERIOD  SQ_NNW    00043824  R20
   294330.00000 3932570.00000       7.29574   109.10   109.10     0.00  PERIOD  SQ_NNW    00043824  R20
   294350.00000 3932570.00000       7.92399   109.10   109.10     0.00  PERIOD  SQ_NNW    00043824  R20
   294370.00000 3932570.00000       8.67790   109.10   109.10     0.00  PERIOD  SQ_NNW    00043824  R20
   294330.00000 3932590.00000       7.84581   109.10   109.10     0.00  PERIOD  SQ_NNW    00043824  R20
   294350.00000 3932590.00000       8.54281   109.10   109.10     0.00  PERIOD  SQ_NNW    00043824  R20
   294370.00000 3932590.00000       9.36676   109.10   109.10     0.00  PERIOD  SQ_NNW    00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                        10/05/15
* AERMET ( 14134):                                                            14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SQ_NNE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       6.76458   109.10   109.10     0.00  PERIOD  SQ_NNE    00043824  R20
   294350.00000 3932550.00000       6.54696   109.10   109.10     0.00  PERIOD  SQ_NNE    00043824  R20
   294370.00000 3932550.00000       6.42435   109.10   109.10     0.00  PERIOD  SQ_NNE    00043824  R20
   294330.00000 3932570.00000       7.24261   109.10   109.10     0.00  PERIOD  SQ_NNE    00043824  R20
   294350.00000 3932570.00000       7.01090   109.10   109.10     0.00  PERIOD  SQ_NNE    00043824  R20
   294370.00000 3932570.00000       6.87760   109.10   109.10     0.00  PERIOD  SQ_NNE    00043824  R20
   294330.00000 3932590.00000       7.77178   109.10   109.10     0.00  PERIOD  SQ_NNE    00043824  R20
   294350.00000 3932590.00000       7.52984   109.10   109.10     0.00  PERIOD  SQ_NNE    00043824  R20
   294370.00000 3932590.00000       7.38278   109.10   109.10     0.00  PERIOD  SQ_NNE    00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SQ_NE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       3.14540   109.10   109.10     0.00  PERIOD  SQ_NE     00043824  R20
   294350.00000 3932550.00000       3.34151   109.10   109.10     0.00  PERIOD  SQ_NE     00043824  R20
   294370.00000 3932550.00000       3.57296   109.10   109.10     0.00  PERIOD  SQ_NE     00043824  R20
   294330.00000 3932570.00000       3.20263   109.10   109.10     0.00  PERIOD  SQ_NE     00043824  R20
   294350.00000 3932570.00000       3.40483   109.10   109.10     0.00  PERIOD  SQ_NE     00043824  R20
   294370.00000 3932570.00000       3.62986   109.10   109.10     0.00  PERIOD  SQ_NE     00043824  R20
   294330.00000 3932590.00000       3.24651   109.10   109.10     0.00  PERIOD  SQ_NE     00043824  R20
   294350.00000 3932590.00000       3.46634   109.10   109.10     0.00  PERIOD  SQ_NE     00043824  R20
   294370.00000 3932590.00000       3.69988   109.10   109.10     0.00  PERIOD  SQ_NE     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SQ_ESE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       3.28855   109.10   109.10     0.00  PERIOD  SQ_ESE    00043824  R20
   294350.00000 3932550.00000       3.49368   109.10   109.10     0.00  PERIOD  SQ_ESE    00043824  R20
   294370.00000 3932550.00000       3.72034   109.10   109.10     0.00  PERIOD  SQ_ESE    00043824  R20
   294330.00000 3932570.00000       3.29384   109.10   109.10     0.00  PERIOD  SQ_ESE    00043824  R20
   294350.00000 3932570.00000       3.49995   109.10   109.10     0.00  PERIOD  SQ_ESE    00043824  R20
   294370.00000 3932570.00000       3.72746   109.10   109.10     0.00  PERIOD  SQ_ESE    00043824  R20
   294330.00000 3932590.00000       3.29305   109.10   109.10     0.00  PERIOD  SQ_ESE    00043824  R20
   294350.00000 3932590.00000       3.49691   109.10   109.10     0.00  PERIOD  SQ_ESE    00043824  R20
   294370.00000 3932590.00000       3.72243   109.10   109.10     0.00  PERIOD  SQ_ESE    00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SQ_ENE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
  294330.00000 3932550.00000       3.06638   109.10   109.10     0.00  PERIOD  SQ_ENE    00043824  R20
  294350.00000 3932550.00000       3.25506   109.10   109.10     0.00  PERIOD  SQ_ENE    00043824  R20
  294370.00000 3932550.00000       3.46252   109.10   109.10     0.00  PERIOD  SQ_ENE    00043824  R20
  294330.00000 3932570.00000       3.14919   109.10   109.10     0.00  PERIOD  SQ_ENE    00043824  R20
  294350.00000 3932570.00000       3.34036   109.10   109.10     0.00  PERIOD  SQ_ENE    00043824  R20
  294370.00000 3932570.00000       3.55240   109.10   109.10     0.00  PERIOD  SQ_ENE    00043824  R20
  294330.00000 3932590.00000       3.23051   109.10   109.10     0.00  PERIOD  SQ_ENE    00043824  R20
  294350.00000 3932590.00000       3.42911   109.10   109.10     0.00  PERIOD  SQ_ENE    00043824  R20
  294370.00000 3932590.00000       3.64744   109.10   109.10     0.00  PERIOD  SQ_ENE    00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SO330
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       1.84691   109.10   109.10     0.00  PERIOD  SO330     00043824  R20
   294350.00000 3932550.00000       1.84697   109.10   109.10     0.00  PERIOD  SO330     00043824  R20
   294370.00000 3932550.00000       1.84593   109.10   109.10     0.00  PERIOD  SO330     00043824  R20
   294330.00000 3932570.00000       1.88896   109.10   109.10     0.00  PERIOD  SO330     00043824  R20
   294350.00000 3932570.00000       1.88770   109.10   109.10     0.00  PERIOD  SO330     00043824  R20
   294370.00000 3932570.00000       1.88844   109.10   109.10     0.00  PERIOD  SO330     00043824  R20
   294330.00000 3932590.00000       1.93351   109.10   109.10     0.00  PERIOD  SO330     00043824  R20
   294350.00000 3932590.00000       1.93193   109.10   109.10     0.00  PERIOD  SO330     00043824  R20
   294370.00000 3932590.00000       1.93032   109.10   109.10     0.00  PERIOD  SO330     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SO300
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
  294330.00000 3932550.00000       2.22137   109.10   109.10     0.00  PERIOD  SO300     00043824  R20
  294350.00000 3932550.00000       2.19783   109.10   109.10     0.00  PERIOD  SO300     00043824  R20
  294370.00000 3932550.00000       2.17679   109.10   109.10     0.00  PERIOD  SO300     00043824  R20
  294330.00000 3932570.00000       2.26888   109.10   109.10     0.00  PERIOD  SO300     00043824  R20
  294350.00000 3932570.00000       2.24732   109.10   109.10     0.00  PERIOD  SO300     00043824  R20
  294370.00000 3932570.00000       2.22518   109.10   109.10     0.00  PERIOD  SO300     00043824  R20
  294330.00000 3932590.00000       2.32255   109.10   109.10     0.00  PERIOD  SO300     00043824  R20
  294350.00000 3932590.00000       2.29979   109.10   109.10     0.00  PERIOD  SO300     00043824  R20
  294370.00000 3932590.00000       2.27856   109.10   109.10     0.00  PERIOD  SO300     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SO270
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       1.60133   109.10   109.10     0.00  PERIOD  SO270     00043824  R20
   294350.00000 3932550.00000       1.56694   109.10   109.10     0.00  PERIOD  SO270     00043824  R20
   294370.00000 3932550.00000       1.53362   109.10   109.10     0.00  PERIOD  SO270     00043824  R20
   294330.00000 3932570.00000       1.58465   109.10   109.10     0.00  PERIOD  SO270     00043824  R20
   294350.00000 3932570.00000       1.55117   109.10   109.10     0.00  PERIOD  SO270     00043824  R20
   294370.00000 3932570.00000       1.51913   109.10   109.10     0.00  PERIOD  SO270     00043824  R20
   294330.00000 3932590.00000       1.58008   109.10   109.10     0.00  PERIOD  SO270     00043824  R20
   294350.00000 3932590.00000       1.54725   109.10   109.10     0.00  PERIOD  SO270     00043824  R20
   294370.00000 3932590.00000       1.51562   109.10   109.10     0.00  PERIOD  SO270     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SO240
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       0.73485   109.10   109.10     0.00  PERIOD  SO240     00043824  R20
   294350.00000 3932550.00000       0.72856   109.10   109.10     0.00  PERIOD  SO240     00043824  R20
   294370.00000 3932550.00000       0.72263   109.10   109.10     0.00  PERIOD  SO240     00043824  R20
   294330.00000 3932570.00000       0.71481   109.10   109.10     0.00  PERIOD  SO240     00043824  R20
   294350.00000 3932570.00000       0.70856   109.10   109.10     0.00  PERIOD  SO240     00043824  R20
   294370.00000 3932570.00000       0.70248   109.10   109.10     0.00  PERIOD  SO240     00043824  R20
   294330.00000 3932590.00000       0.69571   109.10   109.10     0.00  PERIOD  SO240     00043824  R20
   294350.00000 3932590.00000       0.68959   109.10   109.10     0.00  PERIOD  SO240     00043824  R20
   294370.00000 3932590.00000       0.68384   109.10   109.10     0.00  PERIOD  SO240     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SO210
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       0.38022   109.10   109.10     0.00  PERIOD  SO210     00043824  R20
   294350.00000 3932550.00000       0.37575   109.10   109.10     0.00  PERIOD  SO210     00043824  R20
   294370.00000 3932550.00000       0.37463   109.10   109.10     0.00  PERIOD  SO210     00043824  R20
   294330.00000 3932570.00000       0.37502   109.10   109.10     0.00  PERIOD  SO210     00043824  R20
   294350.00000 3932570.00000       0.36891   109.10   109.10     0.00  PERIOD  SO210     00043824  R20
   294370.00000 3932570.00000       0.36545   109.10   109.10     0.00  PERIOD  SO210     00043824  R20
   294330.00000 3932590.00000       0.37099   109.10   109.10     0.00  PERIOD  SO210     00043824  R20
   294350.00000 3932590.00000       0.36314   109.10   109.10     0.00  PERIOD  SO210     00043824  R20
   294370.00000 3932590.00000       0.35819   109.10   109.10     0.00  PERIOD  SO210     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SO180
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       0.43391   109.10   109.10     0.00  PERIOD  SO180     00043824  R20
   294350.00000 3932550.00000       0.42952   109.10   109.10     0.00  PERIOD  SO180     00043824  R20
   294370.00000 3932550.00000       0.42540   109.10   109.10     0.00  PERIOD  SO180     00043824  R20
   294330.00000 3932570.00000       0.42502   109.10   109.10     0.00  PERIOD  SO180     00043824  R20
   294350.00000 3932570.00000       0.42076   109.10   109.10     0.00  PERIOD  SO180     00043824  R20
   294370.00000 3932570.00000       0.41671   109.10   109.10     0.00  PERIOD  SO180     00043824  R20
   294330.00000 3932590.00000       0.41638   109.10   109.10     0.00  PERIOD  SO180     00043824  R20
   294350.00000 3932590.00000       0.41221   109.10   109.10     0.00  PERIOD  SO180     00043824  R20
   294370.00000 3932590.00000       0.40833   109.10   109.10     0.00  PERIOD  SO180     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SO150
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       0.59660   109.10   109.10     0.00  PERIOD  SO150     00043824  R20
   294350.00000 3932550.00000       0.60733   109.10   109.10     0.00  PERIOD  SO150     00043824  R20
   294370.00000 3932550.00000       0.61962   109.10   109.10     0.00  PERIOD  SO150     00043824  R20
   294330.00000 3932570.00000       0.58849   109.10   109.10     0.00  PERIOD  SO150     00043824  R20
   294350.00000 3932570.00000       0.59958   109.10   109.10     0.00  PERIOD  SO150     00043824  R20
   294370.00000 3932570.00000       0.61152   109.10   109.10     0.00  PERIOD  SO150     00043824  R20
   294330.00000 3932590.00000       0.58044   109.10   109.10     0.00  PERIOD  SO150     00043824  R20
   294350.00000 3932590.00000       0.59182   109.10   109.10     0.00  PERIOD  SO150     00043824  R20
   294370.00000 3932590.00000       0.60368   109.10   109.10     0.00  PERIOD  SO150     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SO120
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       0.71529   109.10   109.10     0.00  PERIOD  SO120     00043824  R20
   294350.00000 3932550.00000       0.72458   109.10   109.10     0.00  PERIOD  SO120     00043824  R20
   294370.00000 3932550.00000       0.73360   109.10   109.10     0.00  PERIOD  SO120     00043824  R20
   294330.00000 3932570.00000       0.70182   109.10   109.10     0.00  PERIOD  SO120     00043824  R20
   294350.00000 3932570.00000       0.71113   109.10   109.10     0.00  PERIOD  SO120     00043824  R20
   294370.00000 3932570.00000       0.72112   109.10   109.10     0.00  PERIOD  SO120     00043824  R20
   294330.00000 3932590.00000       0.68971   109.10   109.10     0.00  PERIOD  SO120     00043824  R20
   294350.00000 3932590.00000       0.69929   109.10   109.10     0.00  PERIOD  SO120     00043824  R20
   294370.00000 3932590.00000       0.71010   109.10   109.10     0.00  PERIOD  SO120     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SO090
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       0.56651   109.10   109.10     0.00  PERIOD  SO090     00043824  R20
   294350.00000 3932550.00000       0.57776   109.10   109.10     0.00  PERIOD  SO090     00043824  R20
   294370.00000 3932550.00000       0.58941   109.10   109.10     0.00  PERIOD  SO090     00043824  R20
   294330.00000 3932570.00000       0.56278   109.10   109.10     0.00  PERIOD  SO090     00043824  R20
   294350.00000 3932570.00000       0.57410   109.10   109.10     0.00  PERIOD  SO090     00043824  R20
   294370.00000 3932570.00000       0.58573   109.10   109.10     0.00  PERIOD  SO090     00043824  R20
   294330.00000 3932590.00000       0.55923   109.10   109.10     0.00  PERIOD  SO090     00043824  R20
   294350.00000 3932590.00000       0.57031   109.10   109.10     0.00  PERIOD  SO090     00043824  R20
   294370.00000 3932590.00000       0.58184   109.10   109.10     0.00  PERIOD  SO090     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SO060
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       0.46527   109.10   109.10     0.00  PERIOD  SO060     00043824  R20
   294350.00000 3932550.00000       0.47392   109.10   109.10     0.00  PERIOD  SO060     00043824  R20
   294370.00000 3932550.00000       0.48345   109.10   109.10     0.00  PERIOD  SO060     00043824  R20
   294330.00000 3932570.00000       0.47033   109.10   109.10     0.00  PERIOD  SO060     00043824  R20
   294350.00000 3932570.00000       0.47862   109.10   109.10     0.00  PERIOD  SO060     00043824  R20
   294370.00000 3932570.00000       0.48718   109.10   109.10     0.00  PERIOD  SO060     00043824  R20
   294330.00000 3932590.00000       0.47599   109.10   109.10     0.00  PERIOD  SO060     00043824  R20
   294350.00000 3932590.00000       0.48387   109.10   109.10     0.00  PERIOD  SO060     00043824  R20
   294370.00000 3932590.00000       0.49249   109.10   109.10     0.00  PERIOD  SO060     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SO030
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       0.88937   109.10   109.10     0.00  PERIOD  SO030     00043824  R20
   294350.00000 3932550.00000       0.89977   109.10   109.10     0.00  PERIOD  SO030     00043824  R20
   294370.00000 3932550.00000       0.90931   109.10   109.10     0.00  PERIOD  SO030     00043824  R20
   294330.00000 3932570.00000       0.90327   109.10   109.10     0.00  PERIOD  SO030     00043824  R20
   294350.00000 3932570.00000       0.91499   109.10   109.10     0.00  PERIOD  SO030     00043824  R20
   294370.00000 3932570.00000       0.92568   109.10   109.10     0.00  PERIOD  SO030     00043824  R20
   294330.00000 3932590.00000       0.91695   109.10   109.10     0.00  PERIOD  SO030     00043824  R20
   294350.00000 3932590.00000       0.92982   109.10   109.10     0.00  PERIOD  SO030     00043824  R20
   294370.00000 3932590.00000       0.94225   109.10   109.10     0.00  PERIOD  SO030     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SO000
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
  294330.00000 3932550.00000       0.91118   109.10   109.10     0.00  PERIOD  SO000     00043824  R20
  294350.00000 3932550.00000       0.90021   109.10   109.10     0.00  PERIOD  SO000     00043824  R20
  294370.00000 3932550.00000       0.89781   109.10   109.10     0.00  PERIOD  SO000     00043824  R20
  294330.00000 3932570.00000       0.93153   109.10   109.10     0.00  PERIOD  SO000     00043824  R20
  294350.00000 3932570.00000       0.91983   109.10   109.10     0.00  PERIOD  SO000     00043824  R20
  294370.00000 3932570.00000       0.91736   109.10   109.10     0.00  PERIOD  SO000     00043824  R20
  294330.00000 3932590.00000       0.95247   109.10   109.10     0.00  PERIOD  SO000     00043824  R20
  294350.00000 3932590.00000       0.94034   109.10   109.10     0.00  PERIOD  SO000     00043824  R20
  294370.00000 3932590.00000       0.93764   109.10   109.10     0.00  PERIOD  SO000     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SH330
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       5.67358   109.10   109.10     0.00  PERIOD  SH330     00043824  R20
   294350.00000 3932550.00000       5.63884   109.10   109.10     0.00  PERIOD  SH330     00043824  R20
   294370.00000 3932550.00000       5.60791   109.10   109.10     0.00  PERIOD  SH330     00043824  R20
   294330.00000 3932570.00000       5.92540   109.10   109.10     0.00  PERIOD  SH330     00043824  R20
   294350.00000 3932570.00000       5.89023   109.10   109.10     0.00  PERIOD  SH330     00043824  R20
   294370.00000 3932570.00000       5.85572   109.10   109.10     0.00  PERIOD  SH330     00043824  R20
   294330.00000 3932590.00000       6.19803   109.10   109.10     0.00  PERIOD  SH330     00043824  R20
   294350.00000 3932590.00000       6.16004   109.10   109.10     0.00  PERIOD  SH330     00043824  R20
   294370.00000 3932590.00000       6.11776   109.10   109.10     0.00  PERIOD  SH330     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SH300
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
  294330.00000 3932550.00000       6.89130   109.10   109.10     0.00  PERIOD  SH300     00043824  R20
  294350.00000 3932550.00000       6.71202   109.10   109.10     0.00  PERIOD  SH300     00043824  R20
  294370.00000 3932550.00000       6.55108   109.10   109.10     0.00  PERIOD  SH300     00043824  R20
  294330.00000 3932570.00000       7.14856   109.10   109.10     0.00  PERIOD  SH300     00043824  R20
  294350.00000 3932570.00000       6.97550   109.10   109.10     0.00  PERIOD  SH300     00043824  R20
  294370.00000 3932570.00000       6.81593   109.10   109.10     0.00  PERIOD  SH300     00043824  R20
  294330.00000 3932590.00000       7.44682   109.10   109.10     0.00  PERIOD  SH300     00043824  R20
  294350.00000 3932590.00000       7.27122   109.10   109.10     0.00  PERIOD  SH300     00043824  R20
  294370.00000 3932590.00000       7.09905   109.10   109.10     0.00  PERIOD  SH300     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SH270
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       5.52496   109.10   109.10     0.00  PERIOD  SH270     00043824  R20
   294350.00000 3932550.00000       5.28091   109.10   109.10     0.00  PERIOD  SH270     00043824  R20
   294370.00000 3932550.00000       5.05442   109.10   109.10     0.00  PERIOD  SH270     00043824  R20
   294330.00000 3932570.00000       5.35076   109.10   109.10     0.00  PERIOD  SH270     00043824  R20
   294350.00000 3932570.00000       5.11904   109.10   109.10     0.00  PERIOD  SH270     00043824  R20
   294370.00000 3932570.00000       4.90458   109.10   109.10     0.00  PERIOD  SH270     00043824  R20
   294330.00000 3932590.00000       5.25282   109.10   109.10     0.00  PERIOD  SH270     00043824  R20
   294350.00000 3932590.00000       5.03021   109.10   109.10     0.00  PERIOD  SH270     00043824  R20
   294370.00000 3932590.00000       4.82319   109.10   109.10     0.00  PERIOD  SH270     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SH240
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
  294330.00000 3932550.00000       2.49745   109.10   109.10     0.00  PERIOD  SH240     00043824  R20
  294350.00000 3932550.00000       2.44875   109.10   109.10     0.00  PERIOD  SH240     00043824  R20
  294370.00000 3932550.00000       2.40400   109.10   109.10     0.00  PERIOD  SH240     00043824  R20
  294330.00000 3932570.00000       2.36513   109.10   109.10     0.00  PERIOD  SH240     00043824  R20
  294350.00000 3932570.00000       2.31799   109.10   109.10     0.00  PERIOD  SH240     00043824  R20
  294370.00000 3932570.00000       2.27377   109.10   109.10     0.00  PERIOD  SH240     00043824  R20
  294330.00000 3932590.00000       2.24149   109.10   109.10     0.00  PERIOD  SH240     00043824  R20
  294350.00000 3932590.00000       2.20087   109.10   109.10     0.00  PERIOD  SH240     00043824  R20
  294370.00000 3932590.00000       2.15939   109.10   109.10     0.00  PERIOD  SH240     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SH210
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       1.29052   109.10   109.10     0.00  PERIOD  SH210     00043824  R20
   294350.00000 3932550.00000       1.27408   109.10   109.10     0.00  PERIOD  SH210     00043824  R20
   294370.00000 3932550.00000       1.28158   109.10   109.10     0.00  PERIOD  SH210     00043824  R20
   294330.00000 3932570.00000       1.24674   109.10   109.10     0.00  PERIOD  SH210     00043824  R20
   294350.00000 3932570.00000       1.21738   109.10   109.10     0.00  PERIOD  SH210     00043824  R20
   294370.00000 3932570.00000       1.21078   109.10   109.10     0.00  PERIOD  SH210     00043824  R20
   294330.00000 3932590.00000       1.21050   109.10   109.10     0.00  PERIOD  SH210     00043824  R20
   294350.00000 3932590.00000       1.17262   109.10   109.10     0.00  PERIOD  SH210     00043824  R20
   294370.00000 3932590.00000       1.15333   109.10   109.10     0.00  PERIOD  SH210     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SH180
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       1.43846   109.10   109.10     0.00  PERIOD  SH180     00043824  R20
   294350.00000 3932550.00000       1.41342   109.10   109.10     0.00  PERIOD  SH180     00043824  R20
   294370.00000 3932550.00000       1.39606   109.10   109.10     0.00  PERIOD  SH180     00043824  R20
   294330.00000 3932570.00000       1.37757   109.10   109.10     0.00  PERIOD  SH180     00043824  R20
   294350.00000 3932570.00000       1.35460   109.10   109.10     0.00  PERIOD  SH180     00043824  R20
   294370.00000 3932570.00000       1.33794   109.10   109.10     0.00  PERIOD  SH180     00043824  R20
   294330.00000 3932590.00000       1.32074   109.10   109.10     0.00  PERIOD  SH180     00043824  R20
   294350.00000 3932590.00000       1.29969   109.10   109.10     0.00  PERIOD  SH180     00043824  R20
   294370.00000 3932590.00000       1.28379   109.10   109.10     0.00  PERIOD  SH180     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                        10/05/15
* AERMET ( 14134):                                                            14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SH150
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       1.94446   109.10   109.10     0.00  PERIOD  SH150     00043824  R20
   294350.00000 3932550.00000       2.00136   109.10   109.10     0.00  PERIOD  SH150     00043824  R20
   294370.00000 3932550.00000       2.06919   109.10   109.10     0.00  PERIOD  SH150     00043824  R20
   294330.00000 3932570.00000       1.88099   109.10   109.10     0.00  PERIOD  SH150     00043824  R20
   294350.00000 3932570.00000       1.94061   109.10   109.10     0.00  PERIOD  SH150     00043824  R20
   294370.00000 3932570.00000       2.00588   109.10   109.10     0.00  PERIOD  SH150     00043824  R20
   294330.00000 3932590.00000       1.82443   109.10   109.10     0.00  PERIOD  SH150     00043824  R20
   294350.00000 3932590.00000       1.88420   109.10   109.10     0.00  PERIOD  SH150     00043824  R20
   294370.00000 3932590.00000       1.94520   109.10   109.10     0.00  PERIOD  SH150     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SH120
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
  294330.00000 3932550.00000       2.25518   109.10   109.10     0.00  PERIOD  SH120     00043824  R20
  294350.00000 3932550.00000       2.34020   109.10   109.10     0.00  PERIOD  SH120     00043824  R20
  294370.00000 3932550.00000       2.42457   109.10   109.10     0.00  PERIOD  SH120     00043824  R20
  294330.00000 3932570.00000       2.21001   109.10   109.10     0.00  PERIOD  SH120     00043824  R20
  294350.00000 3932570.00000       2.28512   109.10   109.10     0.00  PERIOD  SH120     00043824  R20
  294370.00000 3932570.00000       2.36726   109.10   109.10     0.00  PERIOD  SH120     00043824  R20
  294330.00000 3932590.00000       2.15829   109.10   109.10     0.00  PERIOD  SH120     00043824  R20
  294350.00000 3932590.00000       2.23438   109.10   109.10     0.00  PERIOD  SH120     00043824  R20
  294370.00000 3932590.00000       2.32255   109.10   109.10     0.00  PERIOD  SH120     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SH090
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       1.71254   109.10   109.10     0.00  PERIOD  SH090     00043824  R20
   294350.00000 3932550.00000       1.78322   109.10   109.10     0.00  PERIOD  SH090     00043824  R20
   294370.00000 3932550.00000       1.85856   109.10   109.10     0.00  PERIOD  SH090     00043824  R20
   294330.00000 3932570.00000       1.71566   109.10   109.10     0.00  PERIOD  SH090     00043824  R20
   294350.00000 3932570.00000       1.78639   109.10   109.10     0.00  PERIOD  SH090     00043824  R20
   294370.00000 3932570.00000       1.86256   109.10   109.10     0.00  PERIOD  SH090     00043824  R20
   294330.00000 3932590.00000       1.71372   109.10   109.10     0.00  PERIOD  SH090     00043824  R20
   294350.00000 3932590.00000       1.78347   109.10   109.10     0.00  PERIOD  SH090     00043824  R20
   294370.00000 3932590.00000       1.86000   109.10   109.10     0.00  PERIOD  SH090     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SH060
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       1.46475   109.10   109.10     0.00  PERIOD  SH060     00043824  R20
   294350.00000 3932550.00000       1.52388   109.10   109.10     0.00  PERIOD  SH060     00043824  R20
   294370.00000 3932550.00000       1.58892   109.10   109.10     0.00  PERIOD  SH060     00043824  R20
   294330.00000 3932570.00000       1.49106   109.10   109.10     0.00  PERIOD  SH060     00043824  R20
   294350.00000 3932570.00000       1.54677   109.10   109.10     0.00  PERIOD  SH060     00043824  R20
   294370.00000 3932570.00000       1.60968   109.10   109.10     0.00  PERIOD  SH060     00043824  R20
   294330.00000 3932590.00000       1.52235   109.10   109.10     0.00  PERIOD  SH060     00043824  R20
   294350.00000 3932590.00000       1.57894   109.10   109.10     0.00  PERIOD  SH060     00043824  R20
   294370.00000 3932590.00000       1.63898   109.10   109.10     0.00  PERIOD  SH060     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SH030
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       2.68685   109.10   109.10     0.00  PERIOD  SH030     00043824  R20
   294350.00000 3932550.00000       2.76861   109.10   109.10     0.00  PERIOD  SH030     00043824  R20
   294370.00000 3932550.00000       2.84263   109.10   109.10     0.00  PERIOD  SH030     00043824  R20
   294330.00000 3932570.00000       2.75686   109.10   109.10     0.00  PERIOD  SH030     00043824  R20
   294350.00000 3932570.00000       2.85248   109.10   109.10     0.00  PERIOD  SH030     00043824  R20
   294370.00000 3932570.00000       2.93805   109.10   109.10     0.00  PERIOD  SH030     00043824  R20
   294330.00000 3932590.00000       2.82165   109.10   109.10     0.00  PERIOD  SH030     00043824  R20
   294350.00000 3932590.00000       2.93351   109.10   109.10     0.00  PERIOD  SH030     00043824  R20
   294370.00000 3932590.00000       3.03306   109.10   109.10     0.00  PERIOD  SH030     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                        10/05/15
* AERMET ( 14134):                                                            14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SH000
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
  294330.00000 3932550.00000       3.01245   109.10   109.10     0.00  PERIOD  SH000     00043824  R20
  294350.00000 3932550.00000       2.96456   109.10   109.10     0.00  PERIOD  SH000     00043824  R20
  294370.00000 3932550.00000       2.98765   109.10   109.10     0.00  PERIOD  SH000     00043824  R20
  294330.00000 3932570.00000       3.14934   109.10   109.10     0.00  PERIOD  SH000     00043824  R20
  294350.00000 3932570.00000       3.09747   109.10   109.10     0.00  PERIOD  SH000     00043824  R20
  294370.00000 3932570.00000       3.12096   109.10   109.10     0.00  PERIOD  SH000     00043824  R20
  294330.00000 3932590.00000       3.29650   109.10   109.10     0.00  PERIOD  SH000     00043824  R20
  294350.00000 3932590.00000       3.23988   109.10   109.10     0.00  PERIOD  SH000     00043824  R20
  294370.00000 3932590.00000       3.26352   109.10   109.10     0.00  PERIOD  SH000     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SE_WSW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000      25.52381   109.10   109.10     0.00  PERIOD  SE_WSW    00043824  R20
   294350.00000 3932550.00000      22.89268   109.10   109.10     0.00  PERIOD  SE_WSW    00043824  R20
   294370.00000 3932550.00000      20.67192   109.10   109.10     0.00  PERIOD  SE_WSW    00043824  R20
   294330.00000 3932570.00000      23.64158   109.10   109.10     0.00  PERIOD  SE_WSW    00043824  R20
   294350.00000 3932570.00000      21.33054   109.10   109.10     0.00  PERIOD  SE_WSW    00043824  R20
   294370.00000 3932570.00000      19.36273   109.10   109.10     0.00  PERIOD  SE_WSW    00043824  R20
   294330.00000 3932590.00000      21.62793   109.10   109.10     0.00  PERIOD  SE_WSW    00043824  R20
   294350.00000 3932590.00000      19.59424   109.10   109.10     0.00  PERIOD  SE_WSW    00043824  R20
   294370.00000 3932590.00000      17.84856   109.10   109.10     0.00  PERIOD  SE_WSW    00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SE_WNW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000      31.16336   109.10   109.10     0.00  PERIOD  SE_WNW    00043824  R20
   294350.00000 3932550.00000      27.70002   109.10   109.10     0.00  PERIOD  SE_WNW    00043824  R20
   294370.00000 3932550.00000      24.81835   109.10   109.10     0.00  PERIOD  SE_WNW    00043824  R20
   294330.00000 3932570.00000      29.96209   109.10   109.10     0.00  PERIOD  SE_WNW    00043824  R20
   294350.00000 3932570.00000      26.67206   109.10   109.10     0.00  PERIOD  SE_WNW    00043824  R20
   294370.00000 3932570.00000      23.91790   109.10   109.10     0.00  PERIOD  SE_WNW    00043824  R20
   294330.00000 3932590.00000      28.30980   109.10   109.10     0.00  PERIOD  SE_WNW    00043824  R20
   294350.00000 3932590.00000      25.21455   109.10   109.10     0.00  PERIOD  SE_WNW    00043824  R20
   294370.00000 3932590.00000      22.62253   109.10   109.10     0.00  PERIOD  SE_WNW    00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SE_SW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       7.65713   109.10   109.10     0.00  PERIOD  SE_SW     00043824  R20
   294350.00000 3932550.00000       7.28739   109.10   109.10     0.00  PERIOD  SE_SW     00043824  R20
   294370.00000 3932550.00000       6.97394   109.10   109.10     0.00  PERIOD  SE_SW     00043824  R20
   294330.00000 3932570.00000       6.92271   109.10   109.10     0.00  PERIOD  SE_SW     00043824  R20
   294350.00000 3932570.00000       6.63691   109.10   109.10     0.00  PERIOD  SE_SW     00043824  R20
   294370.00000 3932570.00000       6.33963   109.10   109.10     0.00  PERIOD  SE_SW     00043824  R20
   294330.00000 3932590.00000       6.24065   109.10   109.10     0.00  PERIOD  SE_SW     00043824  R20
   294350.00000 3932590.00000       6.04625   109.10   109.10     0.00  PERIOD  SE_SW     00043824  R20
   294370.00000 3932590.00000       5.81850   109.10   109.10     0.00  PERIOD  SE_SW     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SE_SSW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       9.02462   109.10   109.10     0.00  PERIOD  SE_SSW    00043824  R20
   294350.00000 3932550.00000       8.59149   109.10   109.10     0.00  PERIOD  SE_SSW    00043824  R20
   294370.00000 3932550.00000       8.04197   109.10   109.10     0.00  PERIOD  SE_SSW    00043824  R20
   294330.00000 3932570.00000       7.98426   109.10   109.10     0.00  PERIOD  SE_SSW    00043824  R20
   294350.00000 3932570.00000       7.59676   109.10   109.10     0.00  PERIOD  SE_SSW    00043824  R20
   294370.00000 3932570.00000       7.13532   109.10   109.10     0.00  PERIOD  SE_SSW    00043824  R20
   294330.00000 3932590.00000       7.11925   109.10   109.10     0.00  PERIOD  SE_SSW    00043824  R20
   294350.00000 3932590.00000       6.77231   109.10   109.10     0.00  PERIOD  SE_SSW    00043824  R20
   294370.00000 3932590.00000       6.38246   109.10   109.10     0.00  PERIOD  SE_SSW    00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SE_SSE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       7.56903   109.10   109.10     0.00  PERIOD  SE_SSE    00043824  R20
   294350.00000 3932550.00000       7.58120   109.10   109.10     0.00  PERIOD  SE_SSE    00043824  R20
   294370.00000 3932550.00000       7.44254   109.10   109.10     0.00  PERIOD  SE_SSE    00043824  R20
   294330.00000 3932570.00000       6.73405   109.10   109.10     0.00  PERIOD  SE_SSE    00043824  R20
   294350.00000 3932570.00000       6.75376   109.10   109.10     0.00  PERIOD  SE_SSE    00043824  R20
   294370.00000 3932570.00000       6.66887   109.10   109.10     0.00  PERIOD  SE_SSE    00043824  R20
   294330.00000 3932590.00000       6.03632   109.10   109.10     0.00  PERIOD  SE_SSE    00043824  R20
   294350.00000 3932590.00000       6.05856   109.10   109.10     0.00  PERIOD  SE_SSE    00043824  R20
   294370.00000 3932590.00000       6.01108   109.10   109.10     0.00  PERIOD  SE_SSE    00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SE_SE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       8.81007   109.10   109.10     0.00  PERIOD  SE_SE     00043824  R20
   294350.00000 3932550.00000       9.38015   109.10   109.10     0.00  PERIOD  SE_SE     00043824  R20
   294370.00000 3932550.00000       9.93245   109.10   109.10     0.00  PERIOD  SE_SE     00043824  R20
   294330.00000 3932570.00000       8.22439   109.10   109.10     0.00  PERIOD  SE_SE     00043824  R20
   294350.00000 3932570.00000       8.66012   109.10   109.10     0.00  PERIOD  SE_SE     00043824  R20
   294370.00000 3932570.00000       9.12628   109.10   109.10     0.00  PERIOD  SE_SE     00043824  R20
   294330.00000 3932590.00000       7.62870   109.10   109.10     0.00  PERIOD  SE_SE     00043824  R20
   294350.00000 3932590.00000       8.00967   109.10   109.10     0.00  PERIOD  SE_SE     00043824  R20
   294370.00000 3932590.00000       8.36865   109.10   109.10     0.00  PERIOD  SE_SE     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SE_NW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
  294330.00000 3932550.00000      24.19327   109.10   109.10     0.00  PERIOD  SE_NW     00043824  R20
  294350.00000 3932550.00000      23.09042   109.10   109.10     0.00  PERIOD  SE_NW     00043824  R20
  294370.00000 3932550.00000      22.03440   109.10   109.10     0.00  PERIOD  SE_NW     00043824  R20
  294330.00000 3932570.00000      26.33854   109.10   109.10     0.00  PERIOD  SE_NW     00043824  R20
  294350.00000 3932570.00000      25.02939   109.10   109.10     0.00  PERIOD  SE_NW     00043824  R20
  294370.00000 3932570.00000      23.73398   109.10   109.10     0.00  PERIOD  SE_NW     00043824  R20
  294330.00000 3932590.00000      28.73770   109.10   109.10     0.00  PERIOD  SE_NW     00043824  R20
  294350.00000 3932590.00000      27.11307   109.10   109.10     0.00  PERIOD  SE_NW     00043824  R20
  294370.00000 3932590.00000      25.46919   109.10   109.10     0.00  PERIOD  SE_NW     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SE_NNW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000      16.54050   109.10   109.10     0.00  PERIOD  SE_NNW    00043824  R20
   294350.00000 3932550.00000      18.45034   109.10   109.10     0.00  PERIOD  SE_NNW    00043824  R20
   294370.00000 3932550.00000      20.28213   109.10   109.10     0.00  PERIOD  SE_NNW    00043824  R20
   294330.00000 3932570.00000      18.55953   109.10   109.10     0.00  PERIOD  SE_NNW    00043824  R20
   294350.00000 3932570.00000      20.76750   109.10   109.10     0.00  PERIOD  SE_NNW    00043824  R20
   294370.00000 3932570.00000      22.79152   109.10   109.10     0.00  PERIOD  SE_NNW    00043824  R20
   294330.00000 3932590.00000      20.98119   109.10   109.10     0.00  PERIOD  SE_NNW    00043824  R20
   294350.00000 3932590.00000      23.55359   109.10   109.10     0.00  PERIOD  SE_NNW    00043824  R20
   294370.00000 3932590.00000      25.78517   109.10   109.10     0.00  PERIOD  SE_NNW    00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SE_NNE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000      15.59776   109.10   109.10     0.00  PERIOD  SE_NNE    00043824  R20
   294350.00000 3932550.00000      15.47315   109.10   109.10     0.00  PERIOD  SE_NNE    00043824  R20
   294370.00000 3932550.00000      15.20668   109.10   109.10     0.00  PERIOD  SE_NNE    00043824  R20
   294330.00000 3932570.00000      17.27719   109.10   109.10     0.00  PERIOD  SE_NNE    00043824  R20
   294350.00000 3932570.00000      17.24800   109.10   109.10     0.00  PERIOD  SE_NNE    00043824  R20
   294370.00000 3932570.00000      16.98550   109.10   109.10     0.00  PERIOD  SE_NNE    00043824  R20
   294330.00000 3932590.00000      19.23026   109.10   109.10     0.00  PERIOD  SE_NNE    00043824  R20
   294350.00000 3932590.00000      19.34592   109.10   109.10     0.00  PERIOD  SE_NNE    00043824  R20
   294370.00000 3932590.00000      19.10166   109.10   109.10     0.00  PERIOD  SE_NNE    00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SE_NE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  ______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       6.15290  109.10   109.10     0.00  PERIOD  SE_NE     00043824  R20
   294350.00000 3932550.00000       6.79472  109.10   109.10     0.00  PERIOD  SE_NE     00043824  R20
   294370.00000 3932550.00000       7.60567  109.10   109.10     0.00  PERIOD  SE_NE     00043824  R20
   294330.00000 3932570.00000       6.26703  109.10   109.10     0.00  PERIOD  SE_NE     00043824  R20
   294350.00000 3932570.00000       6.93266  109.10   109.10     0.00  PERIOD  SE_NE     00043824  R20
   294370.00000 3932570.00000       7.72273  109.10   109.10     0.00  PERIOD  SE_NE     00043824  R20
   294330.00000 3932590.00000       6.33290  109.10   109.10     0.00  PERIOD  SE_NE     00043824  R20
   294350.00000 3932590.00000       7.05739  109.10   109.10     0.00  PERIOD  SE_NE     00043824  R20
   294370.00000 3932590.00000       7.88199  109.10   109.10     0.00  PERIOD  SE_NE     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SE_ESE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       6.88591   109.10   109.10     0.00  PERIOD  SE_ESE    00043824  R20
   294350.00000 3932550.00000       7.58173   109.10   109.10     0.00  PERIOD  SE_ESE    00043824  R20
   294370.00000 3932550.00000       8.39684   109.10   109.10     0.00  PERIOD  SE_ESE    00043824  R20
   294330.00000 3932570.00000       6.89442   109.10   109.10     0.00  PERIOD  SE_ESE    00043824  R20
   294350.00000 3932570.00000       7.58763   109.10   109.10     0.00  PERIOD  SE_ESE    00043824  R20
   294370.00000 3932570.00000       8.39567   109.10   109.10     0.00  PERIOD  SE_ESE    00043824  R20
   294330.00000 3932590.00000       6.79196   109.10   109.10     0.00  PERIOD  SE_ESE    00043824  R20
   294350.00000 3932590.00000       7.44899   109.10   109.10     0.00  PERIOD  SE_ESE    00043824  R20
   294370.00000 3932590.00000       8.21414   109.10   109.10     0.00  PERIOD  SE_ESE    00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: SE_ENE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       6.35439   109.10   109.10     0.00  PERIOD  SE_ENE    00043824  R20
   294350.00000 3932550.00000       6.97196   109.10   109.10     0.00  PERIOD  SE_ENE    00043824  R20
   294370.00000 3932550.00000       7.68381   109.10   109.10     0.00  PERIOD  SE_ENE    00043824  R20
   294330.00000 3932570.00000       6.50478   109.10   109.10     0.00  PERIOD  SE_ENE    00043824  R20
   294350.00000 3932570.00000       7.15088   109.10   109.10     0.00  PERIOD  SE_ENE    00043824  R20
   294370.00000 3932570.00000       7.90630   109.10   109.10     0.00  PERIOD  SE_ENE    00043824  R20
   294330.00000 3932590.00000       6.69603   109.10   109.10     0.00  PERIOD  SE_ENE    00043824  R20
   294350.00000 3932590.00000       7.36188   109.10   109.10     0.00  PERIOD  SE_ENE    00043824  R20
   294370.00000 3932590.00000       8.14436   109.10   109.10     0.00  PERIOD  SE_ENE    00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: Q_WSW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       1.71944   109.10   109.10     0.00  PERIOD  Q_WSW     00043824  R20
   294350.00000 3932550.00000       1.66016   109.10   109.10     0.00  PERIOD  Q_WSW     00043824  R20
   294370.00000 3932550.00000       1.60418   109.10   109.10     0.00  PERIOD  Q_WSW     00043824  R20
   294330.00000 3932570.00000       1.58667   109.10   109.10     0.00  PERIOD  Q_WSW     00043824  R20
   294350.00000 3932570.00000       1.53760   109.10   109.10     0.00  PERIOD  Q_WSW     00043824  R20
   294370.00000 3932570.00000       1.49086   109.10   109.10     0.00  PERIOD  Q_WSW     00043824  R20
   294330.00000 3932590.00000       1.44437   109.10   109.10     0.00  PERIOD  Q_WSW     00043824  R20
   294350.00000 3932590.00000       1.40628   109.10   109.10     0.00  PERIOD  Q_WSW     00043824  R20
   294370.00000 3932590.00000       1.36950   109.10   109.10     0.00  PERIOD  Q_WSW     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: Q_WNW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       2.08071   109.10   109.10     0.00  PERIOD  Q_WNW     00043824  R20
   294350.00000 3932550.00000       1.99851   109.10   109.10     0.00  PERIOD  Q_WNW     00043824  R20
   294370.00000 3932550.00000       1.92138   109.10   109.10     0.00  PERIOD  Q_WNW     00043824  R20
   294330.00000 3932570.00000       2.00770   109.10   109.10     0.00  PERIOD  Q_WNW     00043824  R20
   294350.00000 3932570.00000       1.92890   109.10   109.10     0.00  PERIOD  Q_WNW     00043824  R20
   294370.00000 3932570.00000       1.85498   109.10   109.10     0.00  PERIOD  Q_WNW     00043824  R20
   294330.00000 3932590.00000       1.91740   109.10   109.10     0.00  PERIOD  Q_WNW     00043824  R20
   294350.00000 3932590.00000       1.84401   109.10   109.10     0.00  PERIOD  Q_WNW     00043824  R20
   294370.00000 3932590.00000       1.77512   109.10   109.10     0.00  PERIOD  Q_WNW     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: Q_SW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       0.30265   109.10   109.10     0.00  PERIOD  Q_SW      00043824  R20
   294350.00000 3932550.00000       0.29992   109.10   109.10     0.00  PERIOD  Q_SW      00043824  R20
   294370.00000 3932550.00000       0.29766   109.10   109.10     0.00  PERIOD  Q_SW      00043824  R20
   294330.00000 3932570.00000       0.29202   109.10   109.10     0.00  PERIOD  Q_SW      00043824  R20
   294350.00000 3932570.00000       0.28928   109.10   109.10     0.00  PERIOD  Q_SW      00043824  R20
   294370.00000 3932570.00000       0.28686   109.10   109.10     0.00  PERIOD  Q_SW      00043824  R20
   294330.00000 3932590.00000       0.28229   109.10   109.10     0.00  PERIOD  Q_SW      00043824  R20
   294350.00000 3932590.00000       0.27970   109.10   109.10     0.00  PERIOD  Q_SW      00043824  R20
   294370.00000 3932590.00000       0.27732   109.10   109.10     0.00  PERIOD  Q_SW      00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: Q_SSW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       0.32549   109.10   109.10     0.00  PERIOD  Q_SSW     00043824  R20
   294350.00000 3932550.00000       0.31525   109.10   109.10     0.00  PERIOD  Q_SSW     00043824  R20
   294370.00000 3932550.00000       0.30509   109.10   109.10     0.00  PERIOD  Q_SSW     00043824  R20
   294330.00000 3932570.00000       0.31292   109.10   109.10     0.00  PERIOD  Q_SSW     00043824  R20
   294350.00000 3932570.00000       0.30314   109.10   109.10     0.00  PERIOD  Q_SSW     00043824  R20
   294370.00000 3932570.00000       0.29348   109.10   109.10     0.00  PERIOD  Q_SSW     00043824  R20
   294330.00000 3932590.00000       0.30141   109.10   109.10     0.00  PERIOD  Q_SSW     00043824  R20
   294350.00000 3932590.00000       0.29206   109.10   109.10     0.00  PERIOD  Q_SSW     00043824  R20
   294370.00000 3932590.00000       0.28287   109.10   109.10     0.00  PERIOD  Q_SSW     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: Q_SSE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       0.28985   109.10   109.10     0.00  PERIOD  Q_SSE     00043824  R20
   294350.00000 3932550.00000       0.28359   109.10   109.10     0.00  PERIOD  Q_SSE     00043824  R20
   294370.00000 3932550.00000       0.27929   109.10   109.10     0.00  PERIOD  Q_SSE     00043824  R20
   294330.00000 3932570.00000       0.27899   109.10   109.10     0.00  PERIOD  Q_SSE     00043824  R20
   294350.00000 3932570.00000       0.27299   109.10   109.10     0.00  PERIOD  Q_SSE     00043824  R20
   294370.00000 3932570.00000       0.26884   109.10   109.10     0.00  PERIOD  Q_SSE     00043824  R20
   294330.00000 3932590.00000       0.26907   109.10   109.10     0.00  PERIOD  Q_SSE     00043824  R20
   294350.00000 3932590.00000       0.26330   109.10   109.10     0.00  PERIOD  Q_SSE     00043824  R20
   294370.00000 3932590.00000       0.25927   109.10   109.10     0.00  PERIOD  Q_SSE     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: Q_SE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       0.59379   109.10   109.10     0.00  PERIOD  Q_SE      00043824  R20
   294350.00000 3932550.00000       0.61131   109.10   109.10     0.00  PERIOD  Q_SE      00043824  R20
   294370.00000 3932550.00000       0.62586   109.10   109.10     0.00  PERIOD  Q_SE      00043824  R20
   294330.00000 3932570.00000       0.58545   109.10   109.10     0.00  PERIOD  Q_SE      00043824  R20
   294350.00000 3932570.00000       0.59890   109.10   109.10     0.00  PERIOD  Q_SE      00043824  R20
   294370.00000 3932570.00000       0.60900   109.10   109.10     0.00  PERIOD  Q_SE      00043824  R20
   294330.00000 3932590.00000       0.57440   109.10   109.10     0.00  PERIOD  Q_SE      00043824  R20
   294350.00000 3932590.00000       0.58391   109.10   109.10     0.00  PERIOD  Q_SE      00043824  R20
   294370.00000 3932590.00000       0.58976   109.10   109.10     0.00  PERIOD  Q_SE      00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: Q_NW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
  294330.00000 3932550.00000       2.11384   109.10   109.10     0.00  PERIOD  Q_NW      00043824  R20
  294350.00000 3932550.00000       2.06541   109.10   109.10     0.00  PERIOD  Q_NW      00043824  R20
  294370.00000 3932550.00000       2.01796   109.10   109.10     0.00  PERIOD  Q_NW      00043824  R20
  294330.00000 3932570.00000       2.15759   109.10   109.10     0.00  PERIOD  Q_NW      00043824  R20
  294350.00000 3932570.00000       2.10497   109.10   109.10     0.00  PERIOD  Q_NW      00043824  R20
  294370.00000 3932570.00000       2.05384   109.10   109.10     0.00  PERIOD  Q_NW      00043824  R20
  294330.00000 3932590.00000       2.19953   109.10   109.10     0.00  PERIOD  Q_NW      00043824  R20
  294350.00000 3932590.00000       2.14295   109.10   109.10     0.00  PERIOD  Q_NW      00043824  R20
  294370.00000 3932590.00000       2.08862   109.10   109.10     0.00  PERIOD  Q_NW      00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: Q_NNW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       1.42709   109.10   109.10     0.00  PERIOD  Q_NNW     00043824  R20
   294350.00000 3932550.00000       1.49311   109.10   109.10     0.00  PERIOD  Q_NNW     00043824  R20
   294370.00000 3932550.00000       1.56286   109.10   109.10     0.00  PERIOD  Q_NNW     00043824  R20
   294330.00000 3932570.00000       1.48445   109.10   109.10     0.00  PERIOD  Q_NNW     00043824  R20
   294350.00000 3932570.00000       1.55577   109.10   109.10     0.00  PERIOD  Q_NNW     00043824  R20
   294370.00000 3932570.00000       1.63078   109.10   109.10     0.00  PERIOD  Q_NNW     00043824  R20
   294330.00000 3932590.00000       1.54613   109.10   109.10     0.00  PERIOD  Q_NNW     00043824  R20
   294350.00000 3932590.00000       1.62336   109.10   109.10     0.00  PERIOD  Q_NNW     00043824  R20
   294370.00000 3932590.00000       1.70421   109.10   109.10     0.00  PERIOD  Q_NNW     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: Q_NNE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       1.23117   109.10   109.10     0.00  PERIOD  Q_NNE     00043824  R20
   294350.00000 3932550.00000       1.27342   109.10   109.10     0.00  PERIOD  Q_NNE     00043824  R20
   294370.00000 3932550.00000       1.32114   109.10   109.10     0.00  PERIOD  Q_NNE     00043824  R20
   294330.00000 3932570.00000       1.27214   109.10   109.10     0.00  PERIOD  Q_NNE     00043824  R20
   294350.00000 3932570.00000       1.31807   109.10   109.10     0.00  PERIOD  Q_NNE     00043824  R20
   294370.00000 3932570.00000       1.36985   109.10   109.10     0.00  PERIOD  Q_NNE     00043824  R20
   294330.00000 3932590.00000       1.31550   109.10   109.10     0.00  PERIOD  Q_NNE     00043824  R20
   294350.00000 3932590.00000       1.36555   109.10   109.10     0.00  PERIOD  Q_NNE     00043824  R20
   294370.00000 3932590.00000       1.42186   109.10   109.10     0.00  PERIOD  Q_NNE     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: Q_NE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       0.40292   109.10   109.10     0.00  PERIOD  Q_NE      00043824  R20
   294350.00000 3932550.00000       0.42912   109.10   109.10     0.00  PERIOD  Q_NE      00043824  R20
   294370.00000 3932550.00000       0.45863   109.10   109.10     0.00  PERIOD  Q_NE      00043824  R20
   294330.00000 3932570.00000       0.39280   109.10   109.10     0.00  PERIOD  Q_NE      00043824  R20
   294350.00000 3932570.00000       0.41818   109.10   109.10     0.00  PERIOD  Q_NE      00043824  R20
   294370.00000 3932570.00000       0.44683   109.10   109.10     0.00  PERIOD  Q_NE      00043824  R20
   294330.00000 3932590.00000       0.38268   109.10   109.10     0.00  PERIOD  Q_NE      00043824  R20
   294350.00000 3932590.00000       0.40723   109.10   109.10     0.00  PERIOD  Q_NE      00043824  R20
   294370.00000 3932590.00000       0.43496   109.10   109.10     0.00  PERIOD  Q_NE      00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: Q_ESE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       0.25754   109.10   109.10     0.00  PERIOD  Q_ESE     00043824  R20
   294350.00000 3932550.00000       0.26726   109.10   109.10     0.00  PERIOD  Q_ESE     00043824  R20
   294370.00000 3932550.00000       0.27775   109.10   109.10     0.00  PERIOD  Q_ESE     00043824  R20
   294330.00000 3932570.00000       0.26039   109.10   109.10     0.00  PERIOD  Q_ESE     00043824  R20
   294350.00000 3932570.00000       0.27030   109.10   109.10     0.00  PERIOD  Q_ESE     00043824  R20
   294370.00000 3932570.00000       0.28101   109.10   109.10     0.00  PERIOD  Q_ESE     00043824  R20
   294330.00000 3932590.00000       0.26345   109.10   109.10     0.00  PERIOD  Q_ESE     00043824  R20
   294350.00000 3932590.00000       0.27356   109.10   109.10     0.00  PERIOD  Q_ESE     00043824  R20
   294370.00000 3932590.00000       0.28453   109.10   109.10     0.00  PERIOD  Q_ESE     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: Q_ENE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
  294330.00000 3932550.00000       0.24760   109.10   109.10     0.00  PERIOD  Q_ENE     00043824  R20
  294350.00000 3932550.00000       0.25665   109.10   109.10     0.00  PERIOD  Q_ENE     00043824  R20
  294370.00000 3932550.00000       0.26638   109.10   109.10     0.00  PERIOD  Q_ENE     00043824  R20
  294330.00000 3932570.00000       0.24986   109.10   109.10     0.00  PERIOD  Q_ENE     00043824  R20
  294350.00000 3932570.00000       0.25908   109.10   109.10     0.00  PERIOD  Q_ENE     00043824  R20
  294370.00000 3932570.00000       0.26899   109.10   109.10     0.00  PERIOD  Q_ENE     00043824  R20
  294330.00000 3932590.00000       0.25228   109.10   109.10     0.00  PERIOD  Q_ENE     00043824  R20
  294350.00000 3932590.00000       0.26168   109.10   109.10     0.00  PERIOD  Q_ENE     00043824  R20
  294370.00000 3932590.00000       0.27178   109.10   109.10     0.00  PERIOD  Q_ENE     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: O330
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       0.71897   109.10   109.10     0.00  PERIOD  O330      00043824  R20
   294350.00000 3932550.00000       0.71767   109.10   109.10     0.00  PERIOD  O330      00043824  R20
   294370.00000 3932550.00000       0.71623   109.10   109.10     0.00  PERIOD  O330      00043824  R20
   294330.00000 3932570.00000       0.72896   109.10   109.10     0.00  PERIOD  O330      00043824  R20
   294350.00000 3932570.00000       0.72754   109.10   109.10     0.00  PERIOD  O330      00043824  R20
   294370.00000 3932570.00000       0.72597   109.10   109.10     0.00  PERIOD  O330      00043824  R20
   294330.00000 3932590.00000       0.73916   109.10   109.10     0.00  PERIOD  O330      00043824  R20
   294350.00000 3932590.00000       0.73760   109.10   109.10     0.00  PERIOD  O330      00043824  R20
   294370.00000 3932590.00000       0.73588   109.10   109.10     0.00  PERIOD  O330      00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: O300
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       0.81951   109.10   109.10     0.00  PERIOD  O300      00043824  R20
   294350.00000 3932550.00000       0.81246   109.10   109.10     0.00  PERIOD  O300      00043824  R20
   294370.00000 3932550.00000       0.80552   109.10   109.10     0.00  PERIOD  O300      00043824  R20
   294330.00000 3932570.00000       0.82688   109.10   109.10     0.00  PERIOD  O300      00043824  R20
   294350.00000 3932570.00000       0.81968   109.10   109.10     0.00  PERIOD  O300      00043824  R20
   294370.00000 3932570.00000       0.81257   109.10   109.10     0.00  PERIOD  O300      00043824  R20
   294330.00000 3932590.00000       0.83429   109.10   109.10     0.00  PERIOD  O300      00043824  R20
   294350.00000 3932590.00000       0.82690   109.10   109.10     0.00  PERIOD  O300      00043824  R20
   294370.00000 3932590.00000       0.81958   109.10   109.10     0.00  PERIOD  O300      00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: O270
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       0.60149   109.10   109.10     0.00  PERIOD  O270      00043824  R20
   294350.00000 3932550.00000       0.59338   109.10   109.10     0.00  PERIOD  O270      00043824  R20
   294370.00000 3932550.00000       0.58548   109.10   109.10     0.00  PERIOD  O270      00043824  R20
   294330.00000 3932570.00000       0.59163   109.10   109.10     0.00  PERIOD  O270      00043824  R20
   294350.00000 3932570.00000       0.58377   109.10   109.10     0.00  PERIOD  O270      00043824  R20
   294370.00000 3932570.00000       0.57611   109.10   109.10     0.00  PERIOD  O270      00043824  R20
   294330.00000 3932590.00000       0.58141   109.10   109.10     0.00  PERIOD  O270      00043824  R20
   294350.00000 3932590.00000       0.57382   109.10   109.10     0.00  PERIOD  O270      00043824  R20
   294370.00000 3932590.00000       0.56641   109.10   109.10     0.00  PERIOD  O270      00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: O240
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       0.16713   109.10   109.10     0.00  PERIOD  O240      00043824  R20
   294350.00000 3932550.00000       0.16753   109.10   109.10     0.00  PERIOD  O240      00043824  R20
   294370.00000 3932550.00000       0.16794   109.10   109.10     0.00  PERIOD  O240      00043824  R20
   294330.00000 3932570.00000       0.16320   109.10   109.10     0.00  PERIOD  O240      00043824  R20
   294350.00000 3932570.00000       0.16355   109.10   109.10     0.00  PERIOD  O240      00043824  R20
   294370.00000 3932570.00000       0.16391   109.10   109.10     0.00  PERIOD  O240      00043824  R20
   294330.00000 3932590.00000       0.15956   109.10   109.10     0.00  PERIOD  O240      00043824  R20
   294350.00000 3932590.00000       0.15985   109.10   109.10     0.00  PERIOD  O240      00043824  R20
   294370.00000 3932590.00000       0.16016   109.10   109.10     0.00  PERIOD  O240      00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: O210
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       0.10178   109.10   109.10     0.00  PERIOD  O210      00043824  R20
   294350.00000 3932550.00000       0.10195   109.10   109.10     0.00  PERIOD  O210      00043824  R20
   294370.00000 3932550.00000       0.10217   109.10   109.10     0.00  PERIOD  O210      00043824  R20
   294330.00000 3932570.00000       0.10052   109.10   109.10     0.00  PERIOD  O210      00043824  R20
   294350.00000 3932570.00000       0.10064   109.10   109.10     0.00  PERIOD  O210      00043824  R20
   294370.00000 3932570.00000       0.10083   109.10   109.10     0.00  PERIOD  O210      00043824  R20
   294330.00000 3932590.00000       0.09931   109.10   109.10     0.00  PERIOD  O210      00043824  R20
   294350.00000 3932590.00000       0.09940   109.10   109.10     0.00  PERIOD  O210      00043824  R20
   294370.00000 3932590.00000       0.09954   109.10   109.10     0.00  PERIOD  O210      00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: O180
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
  294330.00000 3932550.00000       0.10624   109.10   109.10     0.00  PERIOD  O180      00043824  R20
  294350.00000 3932550.00000       0.10490   109.10   109.10     0.00  PERIOD  O180      00043824  R20
  294370.00000 3932550.00000       0.10371   109.10   109.10     0.00  PERIOD  O180      00043824  R20
  294330.00000 3932570.00000       0.10518   109.10   109.10     0.00  PERIOD  O180      00043824  R20
  294350.00000 3932570.00000       0.10387   109.10   109.10     0.00  PERIOD  O180      00043824  R20
  294370.00000 3932570.00000       0.10270   109.10   109.10     0.00  PERIOD  O180      00043824  R20
  294330.00000 3932590.00000       0.10414   109.10   109.10     0.00  PERIOD  O180      00043824  R20
  294350.00000 3932590.00000       0.10286   109.10   109.10     0.00  PERIOD  O180      00043824  R20
  294370.00000 3932590.00000       0.10172   109.10   109.10     0.00  PERIOD  O180      00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: O150
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
  294330.00000 3932550.00000       0.18671   109.10   109.10     0.00  PERIOD  O150      00043824  R20
  294350.00000 3932550.00000       0.18517   109.10   109.10     0.00  PERIOD  O150      00043824  R20
  294370.00000 3932550.00000       0.18362   109.10   109.10     0.00  PERIOD  O150      00043824  R20
  294330.00000 3932570.00000       0.18359   109.10   109.10     0.00  PERIOD  O150      00043824  R20
  294350.00000 3932570.00000       0.18210   109.10   109.10     0.00  PERIOD  O150      00043824  R20
  294370.00000 3932570.00000       0.18061   109.10   109.10     0.00  PERIOD  O150      00043824  R20
  294330.00000 3932590.00000       0.18059   109.10   109.10     0.00  PERIOD  O150      00043824  R20
  294350.00000 3932590.00000       0.17915   109.10   109.10     0.00  PERIOD  O150      00043824  R20
  294370.00000 3932590.00000       0.17771   109.10   109.10     0.00  PERIOD  O150      00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: O120
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       0.17919   109.10   109.10     0.00  PERIOD  O120      00043824  R20
   294350.00000 3932550.00000       0.18246   109.10   109.10     0.00  PERIOD  O120      00043824  R20
   294370.00000 3932550.00000       0.18584   109.10   109.10     0.00  PERIOD  O120      00043824  R20
   294330.00000 3932570.00000       0.18092   109.10   109.10     0.00  PERIOD  O120      00043824  R20
   294350.00000 3932570.00000       0.18420   109.10   109.10     0.00  PERIOD  O120      00043824  R20
   294370.00000 3932570.00000       0.18760   109.10   109.10     0.00  PERIOD  O120      00043824  R20
   294330.00000 3932590.00000       0.18257   109.10   109.10     0.00  PERIOD  O120      00043824  R20
   294350.00000 3932590.00000       0.18587   109.10   109.10     0.00  PERIOD  O120      00043824  R20
   294370.00000 3932590.00000       0.18928   109.10   109.10     0.00  PERIOD  O120      00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: O090
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       0.09424   109.10   109.10     0.00  PERIOD  O090      00043824  R20
   294350.00000 3932550.00000       0.09520   109.10   109.10     0.00  PERIOD  O090      00043824  R20
   294370.00000 3932550.00000       0.09619   109.10   109.10     0.00  PERIOD  O090      00043824  R20
   294330.00000 3932570.00000       0.09450   109.10   109.10     0.00  PERIOD  O090      00043824  R20
   294350.00000 3932570.00000       0.09547   109.10   109.10     0.00  PERIOD  O090      00043824  R20
   294370.00000 3932570.00000       0.09646   109.10   109.10     0.00  PERIOD  O090      00043824  R20
   294330.00000 3932590.00000       0.09481   109.10   109.10     0.00  PERIOD  O090      00043824  R20
   294350.00000 3932590.00000       0.09579   109.10   109.10     0.00  PERIOD  O090      00043824  R20
   294370.00000 3932590.00000       0.09680   109.10   109.10     0.00  PERIOD  O090      00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: O060
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* _____________ _____________ _____________ _______ _______ _______ _______ ________ ________ ________
  294330.00000 3932550.00000       0.11896   109.10   109.10     0.00  PERIOD  O060      00043824  R20
  294350.00000 3932550.00000       0.12097   109.10   109.10     0.00  PERIOD  O060      00043824  R20
  294370.00000 3932550.00000       0.12307   109.10   109.10     0.00  PERIOD  O060      00043824  R20
  294330.00000 3932570.00000       0.11768   109.10   109.10     0.00  PERIOD  O060      00043824  R20
  294350.00000 3932570.00000       0.11965   109.10   109.10     0.00  PERIOD  O060      00043824  R20
  294370.00000 3932570.00000       0.12169   109.10   109.10     0.00  PERIOD  O060      00043824  R20
  294330.00000 3932590.00000       0.11644   109.10   109.10     0.00  PERIOD  O060      00043824  R20
  294350.00000 3932590.00000       0.11836   109.10   109.10     0.00  PERIOD  O060      00043824  R20
  294370.00000 3932590.00000       0.12035   109.10   109.10     0.00  PERIOD  O060      00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                        10/05/15
* AERMET ( 14134):                                                            14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: O030
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
  294330.00000 3932550.00000       0.26666   109.10   109.10     0.00  PERIOD  O030      00043824  R20
  294350.00000 3932550.00000       0.27193   109.10   109.10     0.00  PERIOD  O030      00043824  R20
  294370.00000 3932550.00000       0.27728   109.10   109.10     0.00  PERIOD  O030      00043824  R20
  294330.00000 3932570.00000       0.26688   109.10   109.10     0.00  PERIOD  O030      00043824  R20
  294350.00000 3932570.00000       0.27228   109.10   109.10     0.00  PERIOD  O030      00043824  R20
  294370.00000 3932570.00000       0.27775   109.10   109.10     0.00  PERIOD  O030      00043824  R20
  294330.00000 3932590.00000       0.26700   109.10   109.10     0.00  PERIOD  O030      00043824  R20
  294350.00000 3932590.00000       0.27254   109.10   109.10     0.00  PERIOD  O030      00043824  R20
  294370.00000 3932590.00000       0.27814   109.10   109.10     0.00  PERIOD  O030      00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: OOOO
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       0.40662   109.10   109.10     0.00  PERIOD  OOOO      00043824  R20
   294350.00000 3932550.00000       0.40980   109.10   109.10     0.00  PERIOD  OOOO      00043824  R20
   294370.00000 3932550.00000       0.41365   109.10   109.10     0.00  PERIOD  OOOO      00043824  R20
   294330.00000 3932570.00000       0.41185   109.10   109.10     0.00  PERIOD  OOOO      00043824  R20
   294350.00000 3932570.00000       0.41512   109.10   109.10     0.00  PERIOD  OOOO      00043824  R20
   294370.00000 3932570.00000       0.41907   109.10   109.10     0.00  PERIOD  OOOO      00043824  R20
   294330.00000 3932590.00000       0.41721   109.10   109.10     0.00  PERIOD  OOOO      00043824  R20
   294350.00000 3932590.00000       0.42057   109.10   109.10     0.00  PERIOD  OOOO      00043824  R20
   294370.00000 3932590.00000       0.42464   109.10   109.10     0.00  PERIOD  OOOO      00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: H330
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       1.46432   109.10   109.10     0.00  PERIOD  H330      00043824  R20
   294350.00000 3932550.00000       1.45752   109.10   109.10     0.00  PERIOD  H330      00043824  R20
   294370.00000 3932550.00000       1.44904   109.10   109.10     0.00  PERIOD  H330      00043824  R20
   294330.00000 3932570.00000       1.50086   109.10   109.10     0.00  PERIOD  H330      00043824  R20
   294350.00000 3932570.00000       1.49285   109.10   109.10     0.00  PERIOD  H330      00043824  R20
   294370.00000 3932570.00000       1.48310   109.10   109.10     0.00  PERIOD  H330      00043824  R20
   294330.00000 3932590.00000       1.53835   109.10   109.10     0.00  PERIOD  H330      00043824  R20
   294350.00000 3932590.00000       1.52864   109.10   109.10     0.00  PERIOD  H330      00043824  R20
   294370.00000 3932590.00000       1.51736   109.10   109.10     0.00  PERIOD  H330      00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: H300
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       1.56275   109.10   109.10     0.00  PERIOD  H300      00043824  R20
   294350.00000 3932550.00000       1.53859   109.10   109.10     0.00  PERIOD  H300      00043824  R20
   294370.00000 3932550.00000       1.51517   109.10   109.10     0.00  PERIOD  H300      00043824  R20
   294330.00000 3932570.00000       1.58489   109.10   109.10     0.00  PERIOD  H300      00043824  R20
   294350.00000 3932570.00000       1.55992   109.10   109.10     0.00  PERIOD  H300      00043824  R20
   294370.00000 3932570.00000       1.53569   109.10   109.10     0.00  PERIOD  H300      00043824  R20
   294330.00000 3932590.00000       1.60756   109.10   109.10     0.00  PERIOD  H300      00043824  R20
   294350.00000 3932590.00000       1.58141   109.10   109.10     0.00  PERIOD  H300      00043824  R20
   294370.00000 3932590.00000       1.55589   109.10   109.10     0.00  PERIOD  H300      00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: H270
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       1.27203   109.10   109.10     0.00  PERIOD  H270      00043824  R20
   294350.00000 3932550.00000       1.23917   109.10   109.10     0.00  PERIOD  H270      00043824  R20
   294370.00000 3932550.00000       1.20791   109.10   109.10     0.00  PERIOD  H270      00043824  R20
   294330.00000 3932570.00000       1.23094   109.10   109.10     0.00  PERIOD  H270      00043824  R20
   294350.00000 3932570.00000       1.19992   109.10   109.10     0.00  PERIOD  H270      00043824  R20
   294370.00000 3932570.00000       1.17039   109.10   109.10     0.00  PERIOD  H270      00043824  R20
   294330.00000 3932590.00000       1.18586   109.10   109.10     0.00  PERIOD  H270      00043824  R20
   294350.00000 3932590.00000       1.15699   109.10   109.10     0.00  PERIOD  H270      00043824  R20
   294370.00000 3932590.00000       1.12949   109.10   109.10     0.00  PERIOD  H270      00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: H240
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
  294330.00000 3932550.00000       0.30162   109.10   109.10     0.00  PERIOD  H240      00043824  R20
  294350.00000 3932550.00000       0.30402   109.10   109.10     0.00  PERIOD  H240      00043824  R20
  294370.00000 3932550.00000       0.30652   109.10   109.10     0.00  PERIOD  H240      00043824  R20
  294330.00000 3932570.00000       0.28548   109.10   109.10     0.00  PERIOD  H240      00043824  R20
  294350.00000 3932570.00000       0.28743   109.10   109.10     0.00  PERIOD  H240      00043824  R20
  294370.00000 3932570.00000       0.28951   109.10   109.10     0.00  PERIOD  H240      00043824  R20
  294330.00000 3932590.00000       0.27165   109.10   109.10     0.00  PERIOD  H240      00043824  R20
  294350.00000 3932590.00000       0.27318   109.10   109.10     0.00  PERIOD  H240      00043824  R20
  294370.00000 3932590.00000       0.27487   109.10   109.10     0.00  PERIOD  H240      00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: H210
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
  294330.00000 3932550.00000       0.18701   109.10   109.10     0.00  PERIOD  H210      00043824  R20
  294350.00000 3932550.00000       0.18707   109.10   109.10     0.00  PERIOD  H210      00043824  R20
  294370.00000 3932550.00000       0.18734   109.10   109.10     0.00  PERIOD  H210      00043824  R20
  294330.00000 3932570.00000       0.18252   109.10   109.10     0.00  PERIOD  H210      00043824  R20
  294350.00000 3932570.00000       0.18246   109.10   109.10     0.00  PERIOD  H210      00043824  R20
  294370.00000 3932570.00000       0.18265   109.10   109.10     0.00  PERIOD  H210      00043824  R20
  294330.00000 3932590.00000       0.17835   109.10   109.10     0.00  PERIOD  H210      00043824  R20
  294350.00000 3932590.00000       0.17816   109.10   109.10     0.00  PERIOD  H210      00043824  R20
  294370.00000 3932590.00000       0.17825   109.10   109.10     0.00  PERIOD  H210      00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: H180
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       0.19354   109.10   109.10     0.00  PERIOD  H180      00043824  R20
   294350.00000 3932550.00000       0.18893   109.10   109.10     0.00  PERIOD  H180      00043824  R20
   294370.00000 3932550.00000       0.18498   109.10   109.10     0.00  PERIOD  H180      00043824  R20
   294330.00000 3932570.00000       0.18949   109.10   109.10     0.00  PERIOD  H180      00043824  R20
   294350.00000 3932570.00000       0.18505   109.10   109.10     0.00  PERIOD  H180      00043824  R20
   294370.00000 3932570.00000       0.18123   109.10   109.10     0.00  PERIOD  H180      00043824  R20
   294330.00000 3932590.00000       0.18564   109.10   109.10     0.00  PERIOD  H180      00043824  R20
   294350.00000 3932590.00000       0.18137   109.10   109.10     0.00  PERIOD  H180      00043824  R20
   294370.00000 3932590.00000       0.17768   109.10   109.10     0.00  PERIOD  H180      00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: H150
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       0.34932   109.10   109.10     0.00  PERIOD  H150      00043824  R20
   294350.00000 3932550.00000       0.34071   109.10   109.10     0.00  PERIOD  H150      00043824  R20
   294370.00000 3932550.00000       0.33205   109.10   109.10     0.00  PERIOD  H150      00043824  R20
   294330.00000 3932570.00000       0.33644   109.10   109.10     0.00  PERIOD  H150      00043824  R20
   294350.00000 3932570.00000       0.32829   109.10   109.10     0.00  PERIOD  H150      00043824  R20
   294370.00000 3932570.00000       0.32018   109.10   109.10     0.00  PERIOD  H150      00043824  R20
   294330.00000 3932590.00000       0.32444   109.10   109.10     0.00  PERIOD  H150      00043824  R20
   294350.00000 3932590.00000       0.31679   109.10   109.10     0.00  PERIOD  H150      00043824  R20
   294370.00000 3932590.00000       0.30925   109.10   109.10     0.00  PERIOD  H150      00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: H120
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
  294330.00000 3932550.00000       0.32708   109.10   109.10     0.00  PERIOD  H120      00043824  R20
  294350.00000 3932550.00000       0.34107   109.10   109.10     0.00  PERIOD  H120      00043824  R20
  294370.00000 3932550.00000       0.35592   109.10   109.10     0.00  PERIOD  H120      00043824  R20
  294330.00000 3932570.00000       0.33606   109.10   109.10     0.00  PERIOD  H120      00043824  R20
  294350.00000 3932570.00000       0.35008   109.10   109.10     0.00  PERIOD  H120      00043824  R20
  294370.00000 3932570.00000       0.36488   109.10   109.10     0.00  PERIOD  H120      00043824  R20
  294330.00000 3932590.00000       0.34421   109.10   109.10     0.00  PERIOD  H120      00043824  R20
  294350.00000 3932590.00000       0.35817   109.10   109.10     0.00  PERIOD  H120      00043824  R20
  294370.00000 3932590.00000       0.37281   109.10   109.10     0.00  PERIOD  H120      00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: H090
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       0.17356   109.10   109.10     0.00  PERIOD  H090      00043824  R20
   294350.00000 3932550.00000       0.17740   109.10   109.10     0.00  PERIOD  H090      00043824  R20
   294370.00000 3932550.00000       0.18143   109.10   109.10     0.00  PERIOD  H090      00043824  R20
   294330.00000 3932570.00000       0.17477   109.10   109.10     0.00  PERIOD  H090      00043824  R20
   294350.00000 3932570.00000       0.17868   109.10   109.10     0.00  PERIOD  H090      00043824  R20
   294370.00000 3932570.00000       0.18278   109.10   109.10     0.00  PERIOD  H090      00043824  R20
   294330.00000 3932590.00000       0.17610   109.10   109.10     0.00  PERIOD  H090      00043824  R20
   294350.00000 3932590.00000       0.18009   109.10   109.10     0.00  PERIOD  H090      00043824  R20
   294370.00000 3932590.00000       0.18426   109.10   109.10     0.00  PERIOD  H090      00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: HO6O
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       0.20993   109.10   109.10     0.00  PERIOD  H060      00043824  R20
   294350.00000 3932550.00000       0.21709   109.10   109.10     0.00  PERIOD  H060      00043824  R20
   294370.00000 3932550.00000       0.22481   109.10   109.10     0.00  PERIOD  H060      00043824  R20
   294330.00000 3932570.00000       0.20592   109.10   109.10     0.00  PERIOD  H060      00043824  R20
   294350.00000 3932570.00000       0.21279   109.10   109.10     0.00  PERIOD  H060      00043824  R20
   294370.00000 3932570.00000       0.22021   109.10   109.10     0.00  PERIOD  H060      00043824  R20
   294330.00000 3932590.00000       0.20218   109.10   109.10     0.00  PERIOD  H060      00043824  R20
   294350.00000 3932590.00000       0.20876   109.10   109.10     0.00  PERIOD  H060      00043824  R20
   294370.00000 3932590.00000       0.21586   109.10   109.10     0.00  PERIOD  H060      00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: H030
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
  294330.00000 3932550.00000       0.49817   109.10   109.10     0.00  PERIOD  H030      00043824  R20
  294350.00000 3932550.00000       0.52059   109.10   109.10     0.00  PERIOD  H030      00043824  R20
  294370.00000 3932550.00000       0.54377   109.10   109.10     0.00  PERIOD  H030      00043824  R20
  294330.00000 3932570.00000       0.49596   109.10   109.10     0.00  PERIOD  H030      00043824  R20
  294350.00000 3932570.00000       0.51911   109.10   109.10     0.00  PERIOD  H030      00043824  R20
  294370.00000 3932570.00000       0.54308   109.10   109.10     0.00  PERIOD  H030      00043824  R20
  294330.00000 3932590.00000       0.49293   109.10   109.10     0.00  PERIOD  H030      00043824  R20
  294350.00000 3932590.00000       0.51686   109.10   109.10     0.00  PERIOD  H030      00043824  R20
  294370.00000 3932590.00000       0.54172   109.10   109.10     0.00  PERIOD  H030      00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: HOOO
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       0.84027   109.10   109.10     0.00  PERIOD  HOOO      00043824  R20
   294350.00000 3932550.00000       0.85813   109.10   109.10     0.00  PERIOD  HOOO      00043824  R20
   294370.00000 3932550.00000       0.87883   109.10   109.10     0.00  PERIOD  HOOO      00043824  R20
   294330.00000 3932570.00000       0.86052   109.10   109.10     0.00  PERIOD  HOOO      00043824  R20
   294350.00000 3932570.00000       0.87933   109.10   109.10     0.00  PERIOD  HOOO      00043824  R20
   294370.00000 3932570.00000       0.90115   109.10   109.10     0.00  PERIOD  HOOO      00043824  R20
   294330.00000 3932590.00000       0.88113   109.10   109.10     0.00  PERIOD  HOOO      00043824  R20
   294350.00000 3932590.00000       0.90099   109.10   109.10     0.00  PERIOD  HOOO      00043824  R20
   294370.00000 3932590.00000       0.92402   109.10   109.10     0.00  PERIOD  HOOO      00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: E_WSW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       2.67438   109.10   109.10     0.00  PERIOD  E_WSW     00043824  R20
   294350.00000 3932550.00000       2.52849   109.10   109.10     0.00  PERIOD  E_WSW     00043824  R20
   294370.00000 3932550.00000       2.39890   109.10   109.10     0.00  PERIOD  E_WSW     00043824  R20
   294330.00000 3932570.00000       2.32047   109.10   109.10     0.00  PERIOD  E_WSW     00043824  R20
   294350.00000 3932570.00000       2.21547   109.10   109.10     0.00  PERIOD  E_WSW     00043824  R20
   294370.00000 3932570.00000       2.12011   109.10   109.10     0.00  PERIOD  E_WSW     00043824  R20
   294330.00000 3932590.00000       1.94498   109.10   109.10     0.00  PERIOD  E_WSW     00043824  R20
   294350.00000 3932590.00000       1.88208   109.10   109.10     0.00  PERIOD  E_WSW     00043824  R20
   294370.00000 3932590.00000       1.82240   109.10   109.10     0.00  PERIOD  E_WSW     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: E_WNW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       3.36482   109.10   109.10     0.00  PERIOD  E_WNW     00043824  R20
   294350.00000 3932550.00000       3.17894   109.10   109.10     0.00  PERIOD  E_WNW     00043824  R20
   294370.00000 3932550.00000       3.00876   109.10   109.10     0.00  PERIOD  E_WNW     00043824  R20
   294330.00000 3932570.00000       3.29401   109.10   109.10     0.00  PERIOD  E_WNW     00043824  R20
   294350.00000 3932570.00000       3.09848   109.10   109.10     0.00  PERIOD  E_WNW     00043824  R20
   294370.00000 3932570.00000       2.92361   109.10   109.10     0.00  PERIOD  E_WNW     00043824  R20
   294330.00000 3932590.00000       3.14154   109.10   109.10     0.00  PERIOD  E_WNW     00043824  R20
   294350.00000 3932590.00000       2.95041   109.10   109.10     0.00  PERIOD  E_WNW     00043824  R20
   294370.00000 3932590.00000       2.78166   109.10   109.10     0.00  PERIOD  E_WNW     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: E_SW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       0.47514   109.10   109.10     0.00  PERIOD  E_SW      00043824  R20
   294350.00000 3932550.00000       0.46551   109.10   109.10     0.00  PERIOD  E_SW      00043824  R20
   294370.00000 3932550.00000       0.45825   109.10   109.10     0.00  PERIOD  E_SW      00043824  R20
   294330.00000 3932570.00000       0.44732   109.10   109.10     0.00  PERIOD  E_SW      00043824  R20
   294350.00000 3932570.00000       0.43799   109.10   109.10     0.00  PERIOD  E_SW      00043824  R20
   294370.00000 3932570.00000       0.43003   109.10   109.10     0.00  PERIOD  E_SW      00043824  R20
   294330.00000 3932590.00000       0.42313   109.10   109.10     0.00  PERIOD  E_SW      00043824  R20
   294350.00000 3932590.00000       0.41452   109.10   109.10     0.00  PERIOD  E_SW      00043824  R20
   294370.00000 3932590.00000       0.40674   109.10   109.10     0.00  PERIOD  E_SW      00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: E_SSW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
  294330.00000 3932550.00000       0.58017   109.10   109.10     0.00  PERIOD  E_SSW     00043824  R20
  294350.00000 3932550.00000       0.56339   109.10   109.10     0.00  PERIOD  E_SSW     00043824  R20
  294370.00000 3932550.00000       0.54496   109.10   109.10     0.00  PERIOD  E_SSW     00043824  R20
  294330.00000 3932570.00000       0.53965   109.10   109.10     0.00  PERIOD  E_SSW     00043824  R20
  294350.00000 3932570.00000       0.52366   109.10   109.10     0.00  PERIOD  E_SSW     00043824  R20
  294370.00000 3932570.00000       0.50637   109.10   109.10     0.00  PERIOD  E_SSW     00043824  R20
  294330.00000 3932590.00000       0.50432   109.10   109.10     0.00  PERIOD  E_SSW     00043824  R20
  294350.00000 3932590.00000       0.48904   109.10   109.10     0.00  PERIOD  E_SSW     00043824  R20
  294370.00000 3932590.00000       0.47278   109.10   109.10     0.00  PERIOD  E_SSW     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: E_SSE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       0.51255   109.10   109.10     0.00  PERIOD  E_SSE     00043824  R20
   294350.00000 3932550.00000       0.50094   109.10   109.10     0.00  PERIOD  E_SSE     00043824  R20
   294370.00000 3932550.00000       0.49062   109.10   109.10     0.00  PERIOD  E_SSE     00043824  R20
   294330.00000 3932570.00000       0.47606   109.10   109.10     0.00  PERIOD  E_SSE     00043824  R20
   294350.00000 3932570.00000       0.46550   109.10   109.10     0.00  PERIOD  E_SSE     00043824  R20
   294370.00000 3932570.00000       0.45676   109.10   109.10     0.00  PERIOD  E_SSE     00043824  R20
   294330.00000 3932590.00000       0.44448   109.10   109.10     0.00  PERIOD  E_SSE     00043824  R20
   294350.00000 3932590.00000       0.43477   109.10   109.10     0.00  PERIOD  E_SSE     00043824  R20
   294370.00000 3932590.00000       0.42719   109.10   109.10     0.00  PERIOD  E_SSE     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: E_SE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       0.85270   109.10   109.10     0.00  PERIOD  E_SE      00043824  R20
   294350.00000 3932550.00000       0.90025   109.10   109.10     0.00  PERIOD  E_SE      00043824  R20
   294370.00000 3932550.00000       0.94041   109.10   109.10     0.00  PERIOD  E_SE      00043824  R20
   294330.00000 3932570.00000       0.84153   109.10   109.10     0.00  PERIOD  E_SE      00043824  R20
   294350.00000 3932570.00000       0.87633   109.10   109.10     0.00  PERIOD  E_SE      00043824  R20
   294370.00000 3932570.00000       0.90108   109.10   109.10     0.00  PERIOD  E_SE      00043824  R20
   294330.00000 3932590.00000       0.82085   109.10   109.10     0.00  PERIOD  E_SE      00043824  R20
   294350.00000 3932590.00000       0.84321   109.10   109.10     0.00  PERIOD  E_SE      00043824  R20
   294370.00000 3932590.00000       0.85436   109.10   109.10     0.00  PERIOD  E_SE      00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: E_NW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  ______  _______  _______  ______  ________  ________  ________
  294330.00000 3932550.00000       3.05454  109.10   109.10     0.00  PERIOD  E_NW      00043824  R20
  294350.00000 3932550.00000       2.93729  109.10   109.10     0.00  PERIOD  E_NW      00043824  R20
  294370.00000 3932550.00000       2.82647  109.10   109.10     0.00  PERIOD  E_NW      00043824  R20
  294330.00000 3932570.00000       3.12228  109.10   109.10     0.00  PERIOD  E_NW      00043824  R20
  294350.00000 3932570.00000       2.99242  109.10   109.10     0.00  PERIOD  E_NW      00043824  R20
  294370.00000 3932570.00000       2.87341  109.10   109.10     0.00  PERIOD  E_NW      00043824  R20
  294330.00000 3932590.00000       3.18215  109.10   109.10     0.00  PERIOD  E_NW      00043824  R20
  294350.00000 3932590.00000       3.04252  109.10   109.10     0.00  PERIOD  E_NW      00043824  R20
  294370.00000 3932590.00000       2.91897  109.10   109.10     0.00  PERIOD  E_NW      00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: E_NNW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
  294330.00000 3932550.00000       2.31431   109.10   109.10     0.00  PERIOD  E_NNW     00043824  R20
  294350.00000 3932550.00000       2.48327   109.10   109.10     0.00  PERIOD  E_NNW     00043824  R20
  294370.00000 3932550.00000       2.64741   109.10   109.10     0.00  PERIOD  E_NNW     00043824  R20
  294330.00000 3932570.00000       2.45566   109.10   109.10     0.00  PERIOD  E_NNW     00043824  R20
  294350.00000 3932570.00000       2.64463   109.10   109.10     0.00  PERIOD  E_NNW     00043824  R20
  294370.00000 3932570.00000       2.82474   109.10   109.10     0.00  PERIOD  E_NNW     00043824  R20
  294330.00000 3932590.00000       2.61141   109.10   109.10     0.00  PERIOD  E_NNW     00043824  R20
  294350.00000 3932590.00000       2.82436   109.10   109.10     0.00  PERIOD  E_NNW     00043824  R20
  294370.00000 3932590.00000       3.02325   109.10   109.10     0.00  PERIOD  E_NNW     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: E_NNE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       1.80132   109.10   109.10     0.00  PERIOD  E_NNE     00043824  R20
   294350.00000 3932550.00000       1.91732   109.10   109.10     0.00  PERIOD  E_NNE     00043824  R20
   294370.00000 3932550.00000       2.04638   109.10   109.10     0.00  PERIOD  E_NNE     00043824  R20
   294330.00000 3932570.00000       1.87657   109.10   109.10     0.00  PERIOD  E_NNE     00043824  R20
   294350.00000 3932570.00000       2.00766   109.10   109.10     0.00  PERIOD  E_NNE     00043824  R20
   294370.00000 3932570.00000       2.15328   109.10   109.10     0.00  PERIOD  E_NNE     00043824  R20
   294330.00000 3932590.00000       1.95547   109.10   109.10     0.00  PERIOD  E_NNE     00043824  R20
   294350.00000 3932590.00000       2.10363   109.10   109.10     0.00  PERIOD  E_NNE     00043824  R20
   294370.00000 3932590.00000       2.26841   109.10   109.10     0.00  PERIOD  E_NNE     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: E_NE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
   294330.00000 3932550.00000       0.57051   109.10   109.10     0.00  PERIOD  E_NE      00043824  R20
   294350.00000 3932550.00000       0.62692   109.10   109.10     0.00  PERIOD  E_NE      00043824  R20
   294370.00000 3932550.00000       0.69358   109.10   109.10     0.00  PERIOD  E_NE      00043824  R20
   294330.00000 3932570.00000       0.55058   109.10   109.10     0.00  PERIOD  E_NE      00043824  R20
   294350.00000 3932570.00000       0.60463   109.10   109.10     0.00  PERIOD  E_NE      00043824  R20
   294370.00000 3932570.00000       0.66895   109.10   109.10     0.00  PERIOD  E_NE      00043824  R20
   294330.00000 3932590.00000       0.53142   109.10   109.10     0.00  PERIOD  E_NE      00043824  R20
   294350.00000 3932590.00000       0.58291   109.10   109.10     0.00  PERIOD  E_NE      00043824  R20
   294370.00000 3932590.00000       0.64433   109.10   109.10     0.00  PERIOD  E_NE      00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: E_ESE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  _______  _______  _______  ______  ________  ________  ________
  294330.00000 3932550.00000       0.41365   109.10   109.10     0.00  PERIOD  E_ESE     00043824  R20
  294350.00000 3932550.00000       0.44094   109.10   109.10     0.00  PERIOD  E_ESE     00043824  R20
  294370.00000 3932550.00000       0.47230   109.10   109.10     0.00  PERIOD  E_ESE     00043824  R20
  294330.00000 3932570.00000       0.42009   109.10   109.10     0.00  PERIOD  E_ESE     00043824  R20
  294350.00000 3932570.00000       0.44814   109.10   109.10     0.00  PERIOD  E_ESE     00043824  R20
  294370.00000 3932570.00000       0.48043   109.10   109.10     0.00  PERIOD  E_ESE     00043824  R20
  294330.00000 3932590.00000       0.42799   109.10   109.10     0.00  PERIOD  E_ESE     00043824  R20
  294350.00000 3932590.00000       0.45735   109.10   109.10     0.00  PERIOD  E_ESE     00043824  R20
  294370.00000 3932590.00000       0.49134   109.10   109.10     0.00  PERIOD  E_ESE     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: E_ENE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP      NUM HRS   NET ID
* ____________  ____________  ____________  ______  _______  _______  ______  ________  ________  ________
  294330.00000 3932550.00000       0.39186  109.10   109.10     0.00  PERIOD  E_ENE     00043824  R20
  294350.00000 3932550.00000       0.41697  109.10   109.10     0.00  PERIOD  E_ENE     00043824  R20
  294370.00000 3932550.00000       0.44579  109.10   109.10     0.00  PERIOD  E_ENE     00043824  R20
  294330.00000 3932570.00000       0.39703  109.10   109.10     0.00  PERIOD  E_ENE     00043824  R20
  294350.00000 3932570.00000       0.42265  109.10   109.10     0.00  PERIOD  E_ENE     00043824  R20
  294370.00000 3932570.00000       0.45207  109.10   109.10     0.00  PERIOD  E_ENE     00043824  R20
  294330.00000 3932590.00000       0.40265  109.10   109.10     0.00  PERIOD  E_ENE     00043824  R20
  294350.00000 3932590.00000       0.42887  109.10   109.10     0.00  PERIOD  E_ENE     00043824  R20
  294370.00000 3932590.00000       0.45899  109.10   109.10     0.00  PERIOD  E_ENE     00043824  R20
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SQ_WSW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ___________
   294330.00000 3932550.00000    1154.87568   109.10   109.10     0.00   1-HR  SQ_WSW      1ST      R20        8021108
   294350.00000 3932550.00000    1089.70262   109.10   109.10     0.00   1-HR  SQ_WSW      1ST      R20        8021108
   294370.00000 3932550.00000    1030.26134   109.10   109.10     0.00   1-HR  SQ_WSW      1ST      R20        8021108
   294330.00000 3932570.00000    1213.92464   109.10   109.10     0.00   1-HR  SQ_WSW      1ST      R20        8021108
   294350.00000 3932570.00000    1156.45527   109.10   109.10     0.00   1-HR  SQ_WSW      1ST      R20        8021108
   294370.00000 3932570.00000    1103.44189   109.10   109.10     0.00   1-HR  SQ_WSW      1ST      R20        8021108
   294330.00000 3932590.00000    1102.84269   109.10   109.10     0.00   1-HR  SQ_WSW      1ST      R20        9032607
   294350.00000 3932590.00000    1029.35674   109.10   109.10     0.00   1-HR  SQ_WSW      1ST      R20        9032607
   294370.00000 3932590.00000     961.39343   109.10   109.10     0.00   1-HR  SQ_WSW      1ST      R20        9032607
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SQ_WNW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
*
  294330.00000 3932550.00000     987.79523   109.10   109.10     0.00    1-HR  SQ_WNW      1ST      R20        9111608
  294350.00000 3932550.00000     958.88180   109.10   109.10     0.00    1-HR  SQ_WNW      1ST      R20        9111608
  294370.00000 3932550.00000     927.88545   109.10   109.10     0.00    1-HR  SQ_WNW      1ST      R20        9111608
  294330.00000 3932570.00000    1080.92040   109.10   109.10     0.00    1-HR  SQ_WNW      1ST      R20        9111608
  294350.00000 3932570.00000    1020.24023   109.10   109.10     0.00    1-HR  SQ_WNW      1ST      R20        9111608
  294370.00000 3932570.00000     963.07788   109.10   109.10     0.00    1-HR  SQ_WNW      1ST      R20        9111608
  294330.00000 3932590.00000    1050.51315   109.10   109.10     0.00    1-HR  SQ_WNW      1ST      R20        7021408
  294350.00000 3932590.00000     988.70322   109.10   109.10     0.00    1-HR  SQ_WNW      1ST      R20        7021408
  294370.00000 3932590.00000     932.33106   109.10   109.10     0.00    1-HR  SQ_WNW      1ST      R20        7021408
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SQ_SW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ___________
   294330.00000 3932550.00000    1019.34067   109.10   109.10     0.00   1-HR  SQ_SW       1ST     R20         8021708
   294350.00000 3932550.00000    1112.67489   109.10   109.10     0.00   1-HR  SQ_SW       1ST     R20         8021708
   294370.00000 3932550.00000    1108.33990   109.10   109.10     0.00   1-HR  SQ_SW       1ST     R20         8021708
   294330.00000 3932570.00000     916.85433   109.10   109.10     0.00   1-HR  SQ_SW       1ST     R20        10042203
   294350.00000 3932570.00000     922.32356   109.10   109.10     0.00   1-HR  SQ_SW       1ST     R20         8021708
   294370.00000 3932570.00000    1021.21860   109.10   109.10     0.00   1-HR  SQ_SW       1ST     R20         8021708
   294330.00000 3932590.00000     895.60428   109.10   109.10     0.00   1-HR  SQ_SW       1ST     R20        10042203
   294350.00000 3932590.00000     859.50512   109.10   109.10     0.00   1-HR  SQ_SW       1ST     R20        10042203
   294370.00000 3932590.00000     839.09528   109.10   109.10     0.00   1-HR  SQ_SW       1ST     R20         8021708
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SQ_SSW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ___________
   294330.00000 3932550.00000    1008.64421   109.10   109.10     0.00   1-HR  SQ_SSW      1ST      R20        9120620
   294350.00000 3932550.00000    1129.95320   109.10   109.10     0.00   1-HR  SQ_SSW      1ST      R20        7012117
   294370.00000 3932550.00000    1201.21357   109.10   109.10     0.00   1-HR  SQ_SSW      1ST      R20        7012117
   294330.00000 3932570.00000     950.03174   109.10   109.10     0.00   1-HR  SQ_SSW      1ST      R20        9120620
   294350.00000 3932570.00000    1082.85134   109.10   109.10     0.00   1-HR  SQ_SSW      1ST      R20        7012117
   294370.00000 3932570.00000    1136.26717   109.10   109.10     0.00   1-HR  SQ_SSW      1ST      R20        8122203
   294330.00000 3932590.00000     895.61926   109.10   109.10     0.00   1-HR  SQ_SSW      1ST      R20        9120620
   294350.00000 3932590.00000    1039.64260   109.10   109.10     0.00   1-HR  SQ_SSW      1ST      R20        7012117
   294370.00000 3932590.00000    1077.71182   109.10   109.10     0.00   1-HR  SQ_SSW      1ST      R20        8122203
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SQ_SSE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000    1390.35276   109.10   109.10     0.00   1-HR  SQ_SSE      1ST      R20      11032218
   294350.00000 3932550.00000    1374.96334   109.10   109.10     0.00   1-HR  SQ_SSE      1ST      R20      11032218
   294370.00000 3932550.00000    1120.95749   109.10   109.10     0.00   1-HR  SQ_SSE      1ST      R20       8022023
   294330.00000 3932570.00000    1308.65974   109.10   109.10     0.00   1-HR  SQ_SSE      1ST      R20      11032218
   294350.00000 3932570.00000    1312.42340   109.10   109.10     0.00   1-HR  SQ_SSE      1ST      R20      11032218
   294370.00000 3932570.00000    1093.01560   109.10   109.10     0.00   1-HR  SQ_SSE      1ST      R20       8022023
   294330.00000 3932590.00000    1233.41155   109.10   109.10     0.00   1-HR  SQ_SSE      1ST      R20      11032218
   294350.00000 3932590.00000    1256.34732   109.10   109.10     0.00   1-HR  SQ_SSE      1ST      R20      11032218
   294370.00000 3932590.00000    1061.54994   109.10   109.10     0.00   1-HR  SQ_SSE      1ST      R20       8022023
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SQ_SE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000     922.01414   109.10   109.10     0.00   1-HR  SQ_SE       1ST     R20        9022607
   294350.00000 3932550.00000     969.84508   109.10   109.10     0.00   1-HR  SQ_SE       1ST     R20        9022607
   294370.00000 3932550.00000     873.69008   109.10   109.10     0.00   1-HR  SQ_SE       1ST     R20        9022607
   294330.00000 3932570.00000     902.99694   109.10   109.10     0.00   1-HR  SQ_SE       1ST     R20        9022607
   294350.00000 3932570.00000     811.01532   109.10   109.10     0.00   1-HR  SQ_SE       1ST     R20        9022607
   294370.00000 3932570.00000     838.78999   109.10   109.10     0.00   1-HR  SQ_SE       1ST     R20        9031718
   294330.00000 3932590.00000     755.49464   109.10   109.10     0.00   1-HR  SQ_SE       1ST     R20        9022607
   294350.00000 3932590.00000     778.78337   109.10   109.10     0.00   1-HR  SQ_SE       1ST     R20        9031718
   294370.00000 3932590.00000     851.18067   109.10   109.10     0.00   1-HR  SQ_SE       1ST     R20        9031718
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SQ_NW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ___________
   294330.00000 3932550.00000     705.34319   109.10   109.10     0.00   1-HR  SQ_NW       1ST     R20         9092307
   294350.00000 3932550.00000     644.98097   109.10   109.10     0.00   1-HR  SQ_NW       1ST     R20         9022701
   294370.00000 3932550.00000     630.48620   109.10   109.10     0.00   1-HR  SQ_NW       1ST     R20         9022701
   294330.00000 3932570.00000     683.87079   109.10   109.10     0.00   1-HR  SQ_NW       1ST     R20         9022701
   294350.00000 3932570.00000     676.82517   109.10   109.10     0.00   1-HR  SQ_NW       1ST     R20         9022701
   294370.00000 3932570.00000     716.11249   109.10   109.10     0.00   1-HR  SQ_NW       1ST     R20        11061806
   294330.00000 3932590.00000     728.51353   109.10   109.10     0.00   1-HR  SQ_NW       1ST     R20         9022701
   294350.00000 3932590.00000     765.76346   109.10   109.10     0.00   1-HR  SQ_NW       1ST     R20        11061806
   294370.00000 3932590.00000     756.34014   109.10   109.10     0.00   1-HR  SQ_NW       1ST     R20        11061806
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SQ_NNW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000     786.39437   109.10   109.10     0.00   1-HR  SQ_NNW      1ST      R20        8111908
   294350.00000 3932550.00000     745.02720   109.10   109.10     0.00   1-HR  SQ_NNW      1ST      R20        8111908
   294370.00000 3932550.00000     770.00184   109.10   109.10     0.00   1-HR  SQ_NNW      1ST      R20       10041407
   294330.00000 3932570.00000     828.12867   109.10   109.10     0.00   1-HR  SQ_NNW      1ST      R20        8111908
   294350.00000 3932570.00000     779.46978   109.10   109.10     0.00   1-HR  SQ_NNW      1ST      R20        7060806
   294370.00000 3932570.00000     831.02454   109.10   109.10     0.00   1-HR  SQ_NNW      1ST      R20       10041407
   294330.00000 3932590.00000     873.81898   109.10   109.10     0.00   1-HR  SQ_NNW      1ST      R20        8111908
   294350.00000 3932590.00000     822.74102   109.10   109.10     0.00   1-HR  SQ_NNW      1ST      R20        7060806
   294370.00000 3932590.00000     897.01205   109.10   109.10     0.00   1-HR  SQ_NNW      1ST      R20       10041407
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SQ_NNE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000     680.66929   109.10   109.10     0.00   1-HR  SQ_NNE      1ST     R20         8062706
   294350.00000 3932550.00000     544.94388   109.10   109.10     0.00   1-HR  SQ_NNE      1ST     R20         8062706
   294370.00000 3932550.00000     589.06838   109.10   109.10     0.00   1-HR  SQ_NNE      1ST     R20         9010617
   294330.00000 3932570.00000     727.97088   109.10   109.10     0.00   1-HR  SQ_NNE      1ST     R20         8062706
   294350.00000 3932570.00000     589.18753   109.10   109.10     0.00   1-HR  SQ_NNE      1ST     R20         8062706
   294370.00000 3932570.00000     619.60471   109.10   109.10     0.00   1-HR  SQ_NNE      1ST     R20         9010617
   294330.00000 3932590.00000     777.85446   109.10   109.10     0.00   1-HR  SQ_NNE      1ST     R20         8062706
   294350.00000 3932590.00000     640.94594   109.10   109.10     0.00   1-HR  SQ_NNE      1ST     R20         8062706
   294370.00000 3932590.00000     653.00176   109.10   109.10     0.00   1-HR  SQ_NNE      1ST     R20         9010617
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SQ_NE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000     734.28380   109.10   109.10     0.00   1-HR  SQ_NE       1ST     R20       10060406
   294350.00000 3932550.00000     673.83700   109.10   109.10     0.00   1-HR  SQ_NE       1ST     R20        9092807
   294370.00000 3932550.00000     710.22277   109.10   109.10     0.00   1-HR  SQ_NE       1ST     R20        9092807
   294330.00000 3932570.00000     807.54852   109.10   109.10     0.00   1-HR  SQ_NE       1ST     R20       10060406
   294350.00000 3932570.00000     791.38339   109.10   109.10     0.00   1-HR  SQ_NE       1ST     R20       10060406
   294370.00000 3932570.00000     719.33861   109.10   109.10     0.00   1-HR  SQ_NE       1ST     R20        9092807
   294330.00000 3932590.00000     807.04807   109.10   109.10     0.00   1-HR  SQ_NE       1ST     R20       10060406
   294350.00000 3932590.00000     864.21523   109.10   109.10     0.00   1-HR  SQ_NE       1ST     R20       10060406
   294370.00000 3932590.00000     855.94133   109.10   109.10     0.00   1-HR  SQ_NE       1ST     R20       10060406
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* AERMOD ( 14134):  School EQHO 100515                                        10/05/15
* AERMET ( 14134):                                                            14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SQ_ESE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000    1335.28803   109.10   109.10     0.00   1-HR  SQ_ESE      1ST     R20        11012917
   294350.00000 3932550.00000    1402.18851   109.10   109.10     0.00   1-HR  SQ_ESE      1ST     R20        11012917
   294370.00000 3932550.00000    1475.23533   109.10   109.10     0.00   1-HR  SQ_ESE      1ST     R20        11012917
   294330.00000 3932570.00000    1057.23066   109.10   109.10     0.00   1-HR  SQ_ESE      1ST     R20        11012917
   294350.00000 3932570.00000    1098.73821   109.10   109.10     0.00   1-HR  SQ_ESE      1ST     R20        11012917
   294370.00000 3932570.00000    1144.08100   109.10   109.10     0.00   1-HR  SQ_ESE      1ST     R20        11012917
   294330.00000 3932590.00000     825.10582   109.10   109.10     0.00   1-HR  SQ_ESE      1ST     R20         8122122
   294350.00000 3932590.00000     894.17578   109.10   109.10     0.00   1-HR  SQ_ESE      1ST     R20         8122122
   294370.00000 3932590.00000     965.42073   109.10   109.10     0.00   1-HR  SQ_ESE      1ST     R20         8122122
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SQ_ENE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* _____________ _____________ ____________   _____   _____    _____   _____  ________  ________  ________  ________
   294330.00000 3932550.00000     867.85497   109.10   109.10     0.00   1-HR  SQ_ENE      1ST     R20        8092607
   294350.00000 3932550.00000     924.37152   109.10   109.10     0.00   1-HR  SQ_ENE      1ST     R20        8092607
   294370.00000 3932550.00000     985.62388   109.10   109.10     0.00   1-HR  SQ_ENE      1ST     R20        8092607
   294330.00000 3932570.00000     936.95496   109.10   109.10     0.00   1-HR  SQ_ENE      1ST     R20        7111708
   294350.00000 3932570.00000     980.35265   109.10   109.10     0.00   1-HR  SQ_ENE      1ST     R20        7111708
   294370.00000 3932570.00000    1025.25430   109.10   109.10     0.00   1-HR  SQ_ENE      1ST     R20        7111708
   294330.00000 3932590.00000    1147.26122   109.10   109.10     0.00   1-HR  SQ_ENE      1ST     R20       11012917
   294350.00000 3932590.00000    1192.66982   109.10   109.10     0.00   1-HR  SQ_ENE      1ST     R20       11012917
   294370.00000 3932590.00000    1243.34175   109.10   109.10     0.00   1-HR  SQ_ENE      1ST     R20       11012917
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SO330
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  ______  _______  _______  _____  ________  _________  ________  ___________
   294330.00000 3932550.00000     339.81749  109.10   109.10     0.00   1-HR  SO330       1ST     R20         8022608
   294350.00000 3932550.00000     332.77665  109.10   109.10     0.00   1-HR  SO330       1ST     R20         8022608
   294370.00000 3932550.00000     310.08002  109.10   109.10     0.00   1-HR  SO330       1ST     R20         8022608
   294330.00000 3932570.00000     341.51876  109.10   109.10     0.00   1-HR  SO330       1ST     R20         8022608
   294350.00000 3932570.00000     325.58160  109.10   109.10     0.00   1-HR  SO330       1ST     R20         8022608
   294370.00000 3932570.00000     294.69400  109.10   109.10     0.00   1-HR  SO330       1ST     R20         8022608
   294330.00000 3932590.00000     338.03836  109.10   109.10     0.00   1-HR  SO330       1ST     R20         8022608
   294350.00000 3932590.00000     312.92017  109.10   109.10     0.00   1-HR  SO330       1ST     R20         8022608
   294370.00000 3932590.00000     274.75533  109.10   109.10     0.00   1-HR  SO330       1ST     R20         8022608
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SO300
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000     223.60361   109.10   109.10     0.00   1-HR  SO300       1ST     R20       11012817
   294350.00000 3932550.00000     228.76315   109.10   109.10     0.00   1-HR  SO300       1ST     R20       11012817
   294370.00000 3932550.00000     231.43021   109.10   109.10     0.00   1-HR  SO300       1ST     R20       11012817
   294330.00000 3932570.00000     237.93850   109.10   109.10     0.00   1-HR  SO300       1ST     R20       11012817
   294350.00000 3932570.00000     239.31615   109.10   109.10     0.00   1-HR  SO300       1ST     R20       11012817
   294370.00000 3932570.00000     237.18454   109.10   109.10     0.00   1-HR  SO300       1ST     R20       11012817
   294330.00000 3932590.00000     246.29478   109.10   109.10     0.00   1-HR  SO300       1ST     R20       11012817
   294350.00000 3932590.00000     242.66186   109.10   109.10     0.00   1-HR  SO300       1ST     R20       11012817
   294370.00000 3932590.00000     237.00321   109.10   109.10     0.00   1-HR  SO300       1ST     R20       11012817
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SO270
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ___________
   294330.00000 3932550.00000     201.68415   109.10   109.10     0.00   1-HR  SO270       1ST     R20         9022703
   294350.00000 3932550.00000     197.84975   109.10   109.10     0.00   1-HR  SO270       1ST     R20         9022703
   294370.00000 3932550.00000     194.12796   109.10   109.10     0.00   1-HR  SO270       1ST     R20         9022703
   294330.00000 3932570.00000     186.83826   109.10   109.10     0.00   1-HR  SO270       1ST     R20         9022703
   294350.00000 3932570.00000     182.42365   109.10   109.10     0.00   1-HR  SO270       1ST     R20         9022703
   294370.00000 3932570.00000     178.14213   109.10   109.10     0.00   1-HR  SO270       1ST     R20         9022703
   294330.00000 3932590.00000     171.37297   109.10   109.10     0.00   1-HR  SO270       1ST     R20         8032707
   294350.00000 3932590.00000     168.45818   109.10   109.10     0.00   1-HR  SO270       1ST     R20         8032707
   294370.00000 3932590.00000     165.62818   109.10   109.10     0.00   1-HR  SO270       1ST     R20         8032707
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SO240
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000     243.43333   109.10   109.10     0.00   1-HR  SO240       1ST     R20        8022305
   294350.00000 3932550.00000     237.32527   109.10   109.10     0.00   1-HR  SO240       1ST     R20       11032707
   294370.00000 3932550.00000     231.78024   109.10   109.10     0.00   1-HR  SO240       1ST     R20        8110708
   294330.00000 3932570.00000     252.76945   109.10   109.10     0.00   1-HR  SO240       1ST     R20        8022305
   294350.00000 3932570.00000     244.57779   109.10   109.10     0.00   1-HR  SO240       1ST     R20        8022305
   294370.00000 3932570.00000     232.76996   109.10   109.10     0.00   1-HR  SO240       1ST     R20        8022305
   294330.00000 3932590.00000     247.38706   109.10   109.10     0.00   1-HR  SO240       1ST     R20        8022305
   294350.00000 3932590.00000     247.26241   109.10   109.10     0.00   1-HR  SO240       1ST     R20        8022305
   294370.00000 3932590.00000     242.97815   109.10   109.10     0.00   1-HR  SO240       1ST     R20        8022305
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SO210
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ___________
   294330.00000 3932550.00000     203.49363   109.10   109.10     0.00   1-HR  SO210       1ST     R20       10033003
   294350.00000 3932550.00000     177.73725   109.10   109.10     0.00   1-HR  SO210       1ST     R20       10033003
   294370.00000 3932550.00000     175.97112   109.10   109.10     0.00   1-HR  SO210       1ST     R20       10020724
   294330.00000 3932570.00000     210.02766   109.10   109.10     0.00   1-HR  SO210       1ST     R20       10033003
   294350.00000 3932570.00000     190.29694   109.10   109.10     0.00   1-HR  SO210       1ST     R20       10033003
   294370.00000 3932570.00000     168.45144   109.10   109.10     0.00   1-HR  SO210       1ST     R20       11021623
   294330.00000 3932590.00000     213.38137   109.10   109.10     0.00   1-HR  SO210       1ST     R20       10033003
   294350.00000 3932590.00000     199.28969   109.10   109.10     0.00   1-HR  SO210       1ST     R20       10033003
   294370.00000 3932590.00000     176.52014   109.10   109.10     0.00   1-HR  SO210       1ST     R20       10033003
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SO180
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ___________
   294330.00000 3932550.00000     219.02501   109.10   109.10     0.00   1-HR  SO180       1ST     R20        8022101
   294350.00000 3932550.00000     203.19908   109.10   109.10     0.00   1-HR  SO180       1ST     R20        8022101
   294370.00000 3932550.00000     229.36083   109.10   109.10     0.00   1-HR  SO180       1ST     R20       11032218
   294330.00000 3932570.00000     215.34806   109.10   109.10     0.00   1-HR  SO180       1ST     R20        8022101
   294350.00000 3932570.00000     199.94509   109.10   109.10     0.00   1-HR  SO180       1ST     R20        8022101
   294370.00000 3932570.00000     224.19372   109.10   109.10     0.00   1-HR  SO180       1ST     R20       11032218
   294330.00000 3932590.00000     211.77817   109.10   109.10     0.00   1-HR  SO180       1ST     R20        8022101
   294350.00000 3932590.00000     196.78451   109.10   109.10     0.00   1-HR  SO180       1ST     R20        8022101
   294370.00000 3932590.00000     219.18012   109.10   109.10     0.00   1-HR  SO180       1ST     R20       11032218
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SO15O
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000     238.04801   109.10   109.10     0.00   1-HR  SO150       1ST     R20        7121802
   294350.00000 3932550.00000     226.28559   109.10   109.10     0.00   1-HR  SO150       1ST     R20        7121802
   294370.00000 3932550.00000     202.48705   109.10   109.10     0.00   1-HR  SO150       1ST     R20        7121802
   294330.00000 3932570.00000     228.08418   109.10   109.10     0.00   1-HR  SO150       1ST     R20        7121802
   294350.00000 3932570.00000     210.04600   109.10   109.10     0.00   1-HR  SO150       1ST     R20        7121802
   294370.00000 3932570.00000     192.00103   109.10   109.10     0.00   1-HR  SO150       1ST     R20       10122017
   294330.00000 3932590.00000     215.35351   109.10   109.10     0.00   1-HR  SO150       1ST     R20        7121802
   294350.00000 3932590.00000     191.80469   109.10   109.10     0.00   1-HR  SO150       1ST     R20        7121802
   294370.00000 3932590.00000     188.33212   109.10   109.10     0.00   1-HR  SO150       1ST     R20       10122017
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SO120
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000     222.68280   109.10   109.10     0.00   1-HR  SO120       1ST     R20       10012524
   294350.00000 3932550.00000     222.68958   109.10   109.10     0.00   1-HR  SO120       1ST     R20       10012524
   294370.00000 3932550.00000     218.61749   109.10   109.10     0.00   1-HR  SO120       1ST     R20       10012524
   294330.00000 3932570.00000     212.64764   109.10   109.10     0.00   1-HR  SO120       1ST     R20       10012524
   294350.00000 3932570.00000     221.01038   109.10   109.10     0.00   1-HR  SO120       1ST     R20       10021208
   294370.00000 3932570.00000     233.34865   109.10   109.10     0.00   1-HR  SO120       1ST     R20       10021208
   294330.00000 3932590.00000     221.69235   109.10   109.10     0.00   1-HR  SO120       1ST     R20       10021208
   294350.00000 3932590.00000     231.59373   109.10   109.10     0.00   1-HR  SO120       1ST     R20       10021208
   294370.00000 3932590.00000     236.21389   109.10   109.10     0.00   1-HR  SO120       1ST     R20       10021208
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SO090
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000     311.12811   109.10   109.10     0.00   1-HR  SO090       1ST     R20       11012917
   294350.00000 3932550.00000     316.36872   109.10   109.10     0.00   1-HR  SO090       1ST     R20       11012917
   294370.00000 3932550.00000     321.76440   109.10   109.10     0.00   1-HR  SO090       1ST     R20       11012917
   294330.00000 3932570.00000     296.49951   109.10   109.10     0.00   1-HR  SO090       1ST     R20       11012917
   294350.00000 3932570.00000     301.32953   109.10   109.10     0.00   1-HR  SO090       1ST     R20       11012917
   294370.00000 3932570.00000     305.99274   109.10   109.10     0.00   1-HR  SO090       1ST     R20       11012917
   294330.00000 3932590.00000     266.17179   109.10   109.10     0.00   1-HR  SO090       1ST     R20       11012917
   294350.00000 3932590.00000     269.90963   109.10   109.10     0.00   1-HR  SO090       1ST     R20       11012917
   294370.00000 3932590.00000     273.75180   109.10   109.10     0.00   1-HR  SO090       1ST     R20       11012917
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SO060
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000     179.50707   109.10   109.10     0.00   1-HR  SO060       1ST     R20         9121108
   294350.00000 3932550.00000     177.56775   109.10   109.10     0.00   1-HR  SO060       1ST     R20         9121108
   294370.00000 3932550.00000     172.90323   109.10   109.10     0.00   1-HR  SO060       1ST     R20         9121108
   294330.00000 3932570.00000     186.33034   109.10   109.10     0.00   1-HR  SO060       1ST     R20         9121108
   294350.00000 3932570.00000     187.15680   109.10   109.10     0.00   1-HR  SO060       1ST     R20         9121108
   294370.00000 3932570.00000     185.74449   109.10   109.10     0.00   1-HR  SO060       1ST     R20         9121108
   294330.00000 3932590.00000     187.60999   109.10   109.10     0.00   1-HR  SO060       1ST     R20         9121108
   294350.00000 3932590.00000     191.04481   109.10   109.10     0.00   1-HR  SO060       1ST     R20         9121108
   294370.00000 3932590.00000     193.32014   109.10   109.10     0.00   1-HR  SO060       1ST     R20         9121108
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SO030
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ___________
   294330.00000 3932550.00000     197.21647   109.10   109.10     0.00   1-HR  SO030       1ST     R20         9020709
   294350.00000 3932550.00000     165.80300   109.10   109.10     0.00   1-HR  SO030       1ST     R20         9020709
   294370.00000 3932550.00000     163.54679   109.10   109.10     0.00   1-HR  SO030       1ST     R20         7110408
   294330.00000 3932570.00000     217.36324   109.10   109.10     0.00   1-HR  SO030       1ST     R20         9020709
   294350.00000 3932570.00000     188.15358   109.10   109.10     0.00   1-HR  SO030       1ST     R20         9020709
   294370.00000 3932570.00000     164.27293   109.10   109.10     0.00   1-HR  SO030       1ST     R20         8011024
   294330.00000 3932590.00000     235.78202   109.10   109.10     0.00   1-HR  SO030       1ST     R20         9020709
   294350.00000 3932590.00000     209.22564   109.10   109.10     0.00   1-HR  SO030       1ST     R20         9020709
   294370.00000 3932590.00000     177.90640   109.10   109.10     0.00   1-HR  SO030       1ST     R20         9020709
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SOOOO
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000     130.51987   109.10   109.10     0.00   1-HR  SOOOO       1ST     R20         9010617
   294350.00000 3932550.00000     130.14750   109.10   109.10     0.00   1-HR  SOOOO       1ST     R20         9010617
   294370.00000 3932550.00000     126.33026   109.10   109.10     0.00   1-HR  SOOOO       1ST     R20         8111908
   294330.00000 3932570.00000     132.65089   109.10   109.10     0.00   1-HR  SOOOO       1ST     R20         9010617
   294350.00000 3932570.00000     132.41336   109.10   109.10     0.00   1-HR  SOOOO       1ST     R20         9010617
   294370.00000 3932570.00000     128.47772   109.10   109.10     0.00   1-HR  SOOOO       1ST     R20         8111908
   294330.00000 3932590.00000     134.85113   109.10   109.10     0.00   1-HR  SOOOO       1ST     R20         9090907
   294350.00000 3932590.00000     134.74669   109.10   109.10     0.00   1-HR  SOOOO       1ST     R20         9010617
   294370.00000 3932590.00000     130.68640   109.10   109.10     0.00   1-HR  SOOOO       1ST     R20         8111908
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SH330
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ___________
   294330.00000 3932550.00000     525.67540   109.10   109.10     0.00   1-HR  SH330       1ST     R20        8022608
   294350.00000 3932550.00000     549.75051   109.10   109.10     0.00   1-HR  SH330       1ST     R20        8022608
   294370.00000 3932550.00000     506.13766   109.10   109.10     0.00   1-HR  SH330       1ST     R20        8022608
   294330.00000 3932570.00000     558.03312   109.10   109.10     0.00   1-HR  SH330       1ST     R20        8022608
   294350.00000 3932570.00000     544.32790   109.10   109.10     0.00   1-HR  SH330       1ST     R20        8022608
   294370.00000 3932570.00000     470.39677   109.10   109.10     0.00   1-HR  SH330       1ST     R20       11061006
   294330.00000 3932590.00000     570.98886   109.10   109.10     0.00   1-HR  SH330       1ST     R20        8022608
   294350.00000 3932590.00000     517.39280   109.10   109.10     0.00   1-HR  SH330       1ST     R20        8022608
   294370.00000 3932590.00000     459.81982   109.10   109.10     0.00   1-HR  SH330       1ST     R20       11061006
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SH300
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000     510.93503   109.10   109.10     0.00   1-HR  SH300       1ST     R20        11012817
   294350.00000 3932550.00000     548.74121   109.10   109.10     0.00   1-HR  SH300       1ST     R20        11012817
   294370.00000 3932550.00000     570.54689   109.10   109.10     0.00   1-HR  SH300       1ST     R20        11012817
   294330.00000 3932570.00000     601.57566   109.10   109.10     0.00   1-HR  SH300       1ST     R20        11012817
   294350.00000 3932570.00000     612.98376   109.10   109.10     0.00   1-HR  SH300       1ST     R20        11012817
   294370.00000 3932570.00000     605.66298   109.10   109.10     0.00   1-HR  SH300       1ST     R20        11012817
   294330.00000 3932590.00000     652.42185   109.10   109.10     0.00   1-HR  SH300       1ST     R20        11012817
   294350.00000 3932590.00000     632.58022   109.10   109.10     0.00   1-HR  SH300       1ST     R20        11012817
   294370.00000 3932590.00000     597.03984   109.10   109.10     0.00   1-HR  SH300       1ST     R20         9040207
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SH270
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000     574.88302   109.10   109.10     0.00   1-HR  SH270       1ST     R20        7021408
   294350.00000 3932550.00000     555.15484   109.10   109.10     0.00   1-HR  SH270       1ST     R20        7021408
   294370.00000 3932550.00000     536.14823   109.10   109.10     0.00   1-HR  SH270       1ST     R20        7021408
   294330.00000 3932570.00000     540.25988   109.10   109.10     0.00   1-HR  SH270       1ST     R20        9022703
   294350.00000 3932570.00000     520.36337   109.10   109.10     0.00   1-HR  SH270       1ST     R20        9022703
   294370.00000 3932570.00000     501.62683   109.10   109.10     0.00   1-HR  SH270       1ST     R20        9022703
   294330.00000 3932590.00000     466.60675   109.10   109.10     0.00   1-HR  SH270       1ST     R20        9022703
   294350.00000 3932590.00000     447.67771   109.10   109.10     0.00   1-HR  SH270       1ST     R20        9022703
   294370.00000 3932590.00000     429.85595   109.10   109.10     0.00   1-HR  SH270       1ST     R20        9022703
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SH240
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000     653.35874   109.10   109.10     0.00   1-HR  SH240       1ST     R20      11032707
   294350.00000 3932550.00000     630.43323   109.10   109.10     0.00   1-HR  SH240       1ST     R20       7092307
   294370.00000 3932550.00000     605.63234   109.10   109.10     0.00   1-HR  SH240       1ST     R20       7092307
   294330.00000 3932570.00000     680.56357   109.10   109.10     0.00   1-HR  SH240       1ST     R20       8022305
   294350.00000 3932570.00000     646.54327   109.10   109.10     0.00   1-HR  SH240       1ST     R20       8022305
   294370.00000 3932570.00000     602.93188   109.10   109.10     0.00   1-HR  SH240       1ST     R20      11032707
   294330.00000 3932590.00000     612.23397   109.10   109.10     0.00   1-HR  SH240       1ST     R20       8022305
   294350.00000 3932590.00000     637.27157   109.10   109.10     0.00   1-HR  SH240       1ST     R20       8022305
   294370.00000 3932590.00000     629.95936   109.10   109.10     0.00   1-HR  SH240       1ST     R20       8022305
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SH210
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ___________
   294330.00000 3932550.00000     554.02341   109.10   109.10     0.00   1-HR  SH210       1ST     R20        10033003
   294350.00000 3932550.00000     493.43895   109.10   109.10     0.00   1-HR  SH210       1ST     R20        10020724
   294370.00000 3932550.00000     512.26406   109.10   109.10     0.00   1-HR  SH210       1ST     R20        10020724
   294330.00000 3932570.00000     568.89178   109.10   109.10     0.00   1-HR  SH210       1ST     R20        10033003
   294350.00000 3932570.00000     493.55956   109.10   109.10     0.00   1-HR  SH210       1ST     R20        10033003
   294370.00000 3932570.00000     483.40286   109.10   109.10     0.00   1-HR  SH210       1ST     R20        10020724
   294330.00000 3932590.00000     555.88198   109.10   109.10     0.00   1-HR  SH210       1ST     R20        10033003
   294350.00000 3932590.00000     525.05034   109.10   109.10     0.00   1-HR  SH210       1ST     R20        10033003
   294370.00000 3932590.00000     443.09648   109.10   109.10     0.00   1-HR  SH210       1ST     R20        10020724
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SH180
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000     633.30040   109.10   109.10     0.00   1-HR  SH180       1ST     R20        8122203
   294350.00000 3932550.00000     599.02760   109.10   109.10     0.00   1-HR  SH180       1ST     R20       11032218
   294370.00000 3932550.00000     723.16441   109.10   109.10     0.00   1-HR  SH180       1ST     R20       11032218
   294330.00000 3932570.00000     610.79816   109.10   109.10     0.00   1-HR  SH180       1ST     R20        8122203
   294350.00000 3932570.00000     573.03944   109.10   109.10     0.00   1-HR  SH180       1ST     R20       11032218
   294370.00000 3932570.00000     693.15408   109.10   109.10     0.00   1-HR  SH180       1ST     R20       11032218
   294330.00000 3932590.00000     589.61179   109.10   109.10     0.00   1-HR  SH180       1ST     R20        8122203
   294350.00000 3932590.00000     548.48733   109.10   109.10     0.00   1-HR  SH180       1ST     R20       11032218
   294370.00000 3932590.00000     664.92623   109.10   109.10     0.00   1-HR  SH180       1ST     R20       11032218
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SH150
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000     594.32434   109.10   109.10     0.00   1-HR  SH150       1ST     R20        7121802
   294350.00000 3932550.00000     639.63417   109.10   109.10     0.00   1-HR  SH150       1ST     R20        7121802
   294370.00000 3932550.00000     589.14346   109.10   109.10     0.00   1-HR  SH150       1ST     R20        7121802
   294330.00000 3932570.00000     607.38835   109.10   109.10     0.00   1-HR  SH150       1ST     R20        7121802
   294350.00000 3932570.00000     598.71745   109.10   109.10     0.00   1-HR  SH150       1ST     R20        7121802
   294370.00000 3932570.00000     505.62217   109.10   109.10     0.00   1-HR  SH150       1ST     R20       10122017
   294330.00000 3932590.00000     590.35437   109.10   109.10     0.00   1-HR  SH150       1ST     R20        7121802
   294350.00000 3932590.00000     534.55994   109.10   109.10     0.00   1-HR  SH150       1ST     R20        7121802
   294370.00000 3932590.00000     470.33785   109.10   109.10     0.00   1-HR  SH150       1ST     R20       10122017
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SH120
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ___________
   294330.00000 3932550.00000     571.25428   109.10   109.10     0.00   1-HR  SH120       1ST     R20        8122201
   294350.00000 3932550.00000     593.22246   109.10   109.10     0.00   1-HR  SH120       1ST     R20       10012524
   294370.00000 3932550.00000     605.15836   109.10   109.10     0.00   1-HR  SH120       1ST     R20       10012524
   294330.00000 3932570.00000     565.05502   109.10   109.10     0.00   1-HR  SH120       1ST     R20       10012524
   294350.00000 3932570.00000     584.35500   109.10   109.10     0.00   1-HR  SH120       1ST     R20       10021208
   294370.00000 3932570.00000     629.06590   109.10   109.10     0.00   1-HR  SH120       1ST     R20       10021208
   294330.00000 3932590.00000     577.47792   109.10   109.10     0.00   1-HR  SH120       1ST     R20       10021208
   294350.00000 3932590.00000     599.99574   109.10   109.10     0.00   1-HR  SH120       1ST     R20       10021208
   294370.00000 3932590.00000     589.81003   109.10   109.10     0.00   1-HR  SH120       1ST     R20       10021208
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SH090
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000     785.91442   109.10   109.10     0.00   1-HR  SH090       1ST     R20       11012917
   294350.00000 3932550.00000     812.30694   109.10   109.10     0.00   1-HR  SH090       1ST     R20       11012917
   294370.00000 3932550.00000     840.29032   109.10   109.10     0.00   1-HR  SH090       1ST     R20       11012917
   294330.00000 3932570.00000     785.91442   109.10   109.10     0.00   1-HR  SH090       1ST     R20       11012917
   294350.00000 3932570.00000     812.30694   109.10   109.10     0.00   1-HR  SH090       1ST     R20       11012917
   294370.00000 3932570.00000     840.29032   109.10   109.10     0.00   1-HR  SH090       1ST     R20       11012917
   294330.00000 3932590.00000     688.14013   109.10   109.10     0.00   1-HR  SH090       1ST     R20       11012917
   294350.00000 3932590.00000     707.53324   109.10   109.10     0.00   1-HR  SH090       1ST     R20       11012917
   294370.00000 3932590.00000     728.03080   109.10   109.10     0.00   1-HR  SH090       1ST     R20       11012917
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SH060
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000     458.77528   109.10   109.10     0.00   1-HR  SH060       1ST     R20        9121108
   294350.00000 3932550.00000     450.58051   109.10   109.10     0.00   1-HR  SH060       1ST     R20        9121108
   294370.00000 3932550.00000     452.59416   109.10   109.10     0.00   1-HR  SH060       1ST     R20       11010123
   294330.00000 3932570.00000     478.28089   109.10   109.10     0.00   1-HR  SH060       1ST     R20        9121108
   294350.00000 3932570.00000     491.03416   109.10   109.10     0.00   1-HR  SH060       1ST     R20        9121108
   294370.00000 3932570.00000     491.24430   109.10   109.10     0.00   1-HR  SH060       1ST     R20        9121108
   294330.00000 3932590.00000     527.10253   109.10   109.10     0.00   1-HR  SH060       1ST     R20       11021408
   294350.00000 3932590.00000     516.87222   109.10   109.10     0.00   1-HR  SH060       1ST     R20       11021408
   294370.00000 3932590.00000     516.62444   109.10   109.10     0.00   1-HR  SH060       1ST     R20        9121108
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SH030
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000     395.18160   109.10   109.10     0.00   1-HR  SH030       1ST     R20       11021501
   294350.00000 3932550.00000     405.12305   109.10   109.10     0.00   1-HR  SH030       1ST     R20        8011024
   294370.00000 3932550.00000     402.96055   109.10   109.10     0.00   1-HR  SH030       1ST     R20        8011024
   294330.00000 3932570.00000     418.57064   109.10   109.10     0.00   1-HR  SH030       1ST     R20        9020709
   294350.00000 3932570.00000     408.94906   109.10   109.10     0.00   1-HR  SH030       1ST     R20        8011024
   294370.00000 3932570.00000     423.99555   109.10   109.10     0.00   1-HR  SH030       1ST     R20        8011024
   294330.00000 3932590.00000     438.19389   109.10   109.10     0.00   1-HR  SH030       1ST     R20        9020709
   294350.00000 3932590.00000     428.65839   109.10   109.10     0.00   1-HR  SH030       1ST     R20       11021501
   294370.00000 3932590.00000     435.79006   109.10   109.10     0.00   1-HR  SH030       1ST     R20        8011024
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SH000
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000     316.06912   109.10   109.10     0.00   1-HR  SH000       1ST     R20         9010617
   294350.00000 3932550.00000     327.94009   109.10   109.10     0.00   1-HR  SH000       1ST     R20         9010617
   294370.00000 3932550.00000     381.00226   109.10   109.10     0.00   1-HR  SH000       1ST     R20         8111908
   294330.00000 3932570.00000     325.34567   109.10   109.10     0.00   1-HR  SH000       1ST     R20         9010617
   294350.00000 3932570.00000     339.14219   109.10   109.10     0.00   1-HR  SH000       1ST     R20         9010617
   294370.00000 3932570.00000     394.34041   109.10   109.10     0.00   1-HR  SH000       1ST     R20         8111908
   294330.00000 3932590.00000     335.50036   109.10   109.10     0.00   1-HR  SH000       1ST     R20         9010617
   294350.00000 3932590.00000     351.01527   109.10   109.10     0.00   1-HR  SH000       1ST     R20         9010617
   294370.00000 3932590.00000     408.46302   109.10   109.10     0.00   1-HR  SH000       1ST     R20         8111908
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SE_WSW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ___________
   294330.00000 3932550.00000    2390.33255   109.10   109.10     0.00   1-HR  SE_WSW      1ST      R20        8021108
   294350.00000 3932550.00000    2180.07343   109.10   109.10     0.00   1-HR  SE_WSW      1ST      R20        8021108
   294370.00000 3932550.00000    1998.38075   109.10   109.10     0.00   1-HR  SE_WSW      1ST      R20        8021108
   294330.00000 3932570.00000    2137.85828   109.10   109.10     0.00   1-HR  SE_WSW      1ST      R20        9032607
   294350.00000 3932570.00000    1911.97069   109.10   109.10     0.00   1-HR  SE_WSW      1ST      R20        9032607
   294370.00000 3932570.00000    1798.99923   109.10   109.10     0.00   1-HR  SE_WSW      1ST      R20        8021108
   294330.00000 3932590.00000    2241.92068   109.10   109.10     0.00   1-HR  SE_WSW      1ST      R20       10013005
   294350.00000 3932590.00000    1938.80039   109.10   109.10     0.00   1-HR  SE_WSW      1ST      R20       10013005
   294370.00000 3932590.00000    1767.32092   109.10   109.10     0.00   1-HR  SE_WSW      1ST      R20        9032607
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SE_WNW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000    2096.37560   109.10   109.10     0.00   1-HR  SE_WNW      1ST      R20      11032518
   294350.00000 3932550.00000    1765.71352   109.10   109.10     0.00   1-HR  SE_WNW      1ST      R20       8020201
   294370.00000 3932550.00000    1620.15822   109.10   109.10     0.00   1-HR  SE_WNW      1ST      R20       8020201
   294330.00000 3932570.00000    1782.27953   109.10   109.10     0.00   1-HR  SE_WNW      1ST      R20       9111608
   294350.00000 3932570.00000    1720.26938   109.10   109.10     0.00   1-HR  SE_WNW      1ST      R20       9111608
   294370.00000 3932570.00000    1649.70350   109.10   109.10     0.00   1-HR  SE_WNW      1ST      R20       9111608
   294330.00000 3932590.00000    2148.57846   109.10   109.10     0.00   1-HR  SE_WNW      1ST      R20       9111608
   294350.00000 3932590.00000    1956.10898   109.10   109.10     0.00   1-HR  SE_WNW      1ST      R20       9111608
   294370.00000 3932590.00000    1783.41412   109.10   109.10     0.00   1-HR  SE_WNW      1ST      R20       9111608
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SE_SW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000    2009.43098   109.10   109.10     0.00   1-HR  SE_SW       1ST     R20        8021708
   294350.00000 3932550.00000    2179.92188   109.10   109.10     0.00   1-HR  SE_SW       1ST     R20        8021708
   294370.00000 3932550.00000    2001.10270   109.10   109.10     0.00   1-HR  SE_SW       1ST     R20        8021708
   294330.00000 3932570.00000    1787.97716   109.10   109.10     0.00   1-HR  SE_SW       1ST     R20       10042203
   294350.00000 3932570.00000    1729.69019   109.10   109.10     0.00   1-HR  SE_SW       1ST     R20        8021708
   294370.00000 3932570.00000    1928.11605   109.10   109.10     0.00   1-HR  SE_SW       1ST     R20        8021708
   294330.00000 3932590.00000    1767.83371   109.10   109.10     0.00   1-HR  SE_SW       1ST     R20        9040107
   294350.00000 3932590.00000    1600.81023   109.10   109.10     0.00   1-HR  SE_SW       1ST     R20       10042203
   294370.00000 3932590.00000    1502.47925   109.10   109.10     0.00   1-HR  SE_SW       1ST     R20        8021708
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SE_SSW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000    2545.78703   109.10   109.10     0.00   1-HR  SE_SSW      1ST      R20        7120108
   294350.00000 3932550.00000    2131.75892   109.10   109.10     0.00   1-HR  SE_SSW      1ST      R20        9120620
   294370.00000 3932550.00000    2596.83218   109.10   109.10     0.00   1-HR  SE_SSW      1ST      R20        7012117
   294330.00000 3932570.00000    2354.78175   109.10   109.10     0.00   1-HR  SE_SSW      1ST      R20        7122008
   294350.00000 3932570.00000    1935.56721   109.10   109.10     0.00   1-HR  SE_SSW      1ST      R20        9120620
   294370.00000 3932570.00000    2365.26639   109.10   109.10     0.00   1-HR  SE_SSW      1ST      R20        7012117
   294330.00000 3932590.00000    2163.76172   109.10   109.10     0.00   1-HR  SE_SSW      1ST      R20        7122008
   294350.00000 3932590.00000    1756.77661   109.10   109.10     0.00   1-HR  SE_SSW      1ST      R20        9120620
   294370.00000 3932590.00000    2163.70708   109.10   109.10     0.00   1-HR  SE_SSW      1ST      R20        7012117
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SE_SSE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000    2960.03510   109.10   109.10     0.00   1-HR  SE_SSE      1ST     R20        11032218
   294350.00000 3932550.00000    2087.25280   109.10   109.10     0.00   1-HR  SE_SSE      1ST     R20         8020408
   294370.00000 3932550.00000    2410.11784   109.10   109.10     0.00   1-HR  SE_SSE      1ST     R20         7021508
   294330.00000 3932570.00000    2720.23336   109.10   109.10     0.00   1-HR  SE_SSE      1ST     R20        11032218
   294350.00000 3932570.00000    2001.05234   109.10   109.10     0.00   1-HR  SE_SSE      1ST     R20         8022023
   294370.00000 3932570.00000    2111.18884   109.10   109.10     0.00   1-HR  SE_SSE      1ST     R20         7021508
   294330.00000 3932590.00000    2504.75540   109.10   109.10     0.00   1-HR  SE_SSE      1ST     R20        11032218
   294350.00000 3932590.00000    1944.60584   109.10   109.10     0.00   1-HR  SE_SSE      1ST     R20         8022023
   294370.00000 3932590.00000    1828.23476   109.10   109.10     0.00   1-HR  SE_SSE      1ST     R20         7021508
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SE_SE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* _____________ _____________  ____________   _____   _____    _____   _____  ________  ________  ________  ________
   294330.00000 3932550.00000    1682.26479   109.10   109.10     0.00    1-HR  SE_SE       1ST     R20        9021202
   294350.00000 3932550.00000    1699.94040   109.10   109.10     0.00    1-HR  SE_SE       1ST     R20        7120208
   294370.00000 3932550.00000    1917.72952   109.10   109.10     0.00    1-HR  SE_SE       1ST     R20        9022607
   294330.00000 3932570.00000    1526.37976   109.10   109.10     0.00    1-HR  SE_SE       1ST     R20        7120208
   294350.00000 3932570.00000    1715.10321   109.10   109.10     0.00    1-HR  SE_SE       1ST     R20        9022607
   294370.00000 3932570.00000    1498.89135   109.10   109.10     0.00    1-HR  SE_SE       1ST     R20        9022607
   294330.00000 3932590.00000    1545.24346   109.10   109.10     0.00    1-HR  SE_SE       1ST     R20        9022607
   294350.00000 3932590.00000    1345.49789   109.10   109.10     0.00    1-HR  SE_SE       1ST     R20        9022607
   294370.00000 3932590.00000    1550.53849   109.10   109.10     0.00    1-HR  SE_SE       1ST     R20        9031718
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SE_NW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
*
  294330.00000 3932550.00000    1462.84471   109.10   109.10     0.00    1-HR  SE_NW       1ST      R20        9092307
  294350.00000 3932550.00000    1139.49792   109.10   109.10     0.00    1-HR  SE_NW       1ST      R20        9022701
  294370.00000 3932550.00000    1169.06903   109.10   109.10     0.00    1-HR  SE_NW       1ST      R20       11061806
  294330.00000 3932570.00000    1319.19678   109.10   109.10     0.00    1-HR  SE_NW       1ST      R20        9092307
  294350.00000 3932570.00000    1285.83748   109.10   109.10     0.00    1-HR  SE_NW       1ST      R20       11061806
  294370.00000 3932570.00000    1318.38743   109.10   109.10     0.00    1-HR  SE_NW       1ST      R20       11061806
  294330.00000 3932590.00000    1423.85664   109.10   109.10     0.00    1-HR  SE_NW       1ST      R20       11061806
  294350.00000 3932590.00000    1467.46666   109.10   109.10     0.00    1-HR  SE_NW       1ST      R20       11061806
  294370.00000 3932590.00000    1506.12813   109.10   109.10     0.00    1-HR  SE_NW       1ST      R20        7040307
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SE_NNW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  ______  _______  _______  _____  ________  _________  ________  ________
   294330.00000 3932550.00000    1499.59550  109.10   109.10     0.00   1-HR  SE_NNW      1ST      R20        8111908
   294350.00000 3932550.00000    1536.95739  109.10   109.10     0.00   1-HR  SE_NNW      1ST      R20       10041407
   294370.00000 3932550.00000    1625.25398  109.10   109.10     0.00   1-HR  SE_NNW      1ST      R20       10041407
   294330.00000 3932570.00000    1625.17020  109.10   109.10     0.00   1-HR  SE_NNW      1ST      R20        8111908
   294350.00000 3932570.00000    1716.70348  109.10   109.10     0.00   1-HR  SE_NNW      1ST      R20       10041407
   294370.00000 3932570.00000    1721.30960  109.10   109.10     0.00   1-HR  SE_NNW      1ST      R20       10041407
   294330.00000 3932590.00000    1770.52389  109.10   109.10     0.00   1-HR  SE_NNW      1ST      R20        8111908
   294350.00000 3932590.00000    1920.46312  109.10   109.10     0.00   1-HR  SE_NNW      1ST      R20       10041407
   294370.00000 3932590.00000    1808.59567  109.10   109.10     0.00   1-HR  SE_NNW      1ST      R20       10041407
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SE_NNE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* _____________ _____________ _____________ _______ _______ _______ _____ ________ ________ ________ ________
   294330.00000 3932550.00000    1296.84564  109.10  109.10     0.00  1-HR  SE_NNE     1ST     R20        8062706
   294350.00000 3932550.00000    1343.96267  109.10  109.10     0.00  1-HR  SE_NNE     1ST     R20        8062706
   294370.00000 3932550.00000    1085.70266  109.10  109.10     0.00  1-HR  SE_NNE     1ST     R20        9010617
   294330.00000 3932570.00000    1415.78988  109.10  109.10     0.00  1-HR  SE_NNE     1ST     R20        8092507
   294350.00000 3932570.00000    1479.25495  109.10  109.10     0.00  1-HR  SE_NNE     1ST     R20        8062706
   294370.00000 3932570.00000    1167.72894  109.10  109.10     0.00  1-HR  SE_NNE     1ST     R20        9010617
   294330.00000 3932590.00000    1612.06398  109.10  109.10     0.00  1-HR  SE_NNE     1ST     R20        8092507
   294350.00000 3932590.00000    1628.87298  109.10  109.10     0.00  1-HR  SE_NNE     1ST     R20        8062706
   294370.00000 3932590.00000    1290.45154  109.10  109.10     0.00  1-HR  SE_NNE     1ST     R20        8062706
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SE_NE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000    1289.98377   109.10   109.10     0.00   1-HR  SE_NE       1ST     R20       10060406
   294350.00000 3932550.00000    1198.07937   109.10   109.10     0.00   1-HR  SE_NE       1ST     R20        9092807
   294370.00000 3932550.00000    1215.40983   109.10   109.10     0.00   1-HR  SE_NE       1ST     R20        9092807
   294330.00000 3932570.00000    1403.84451   109.10   109.10     0.00   1-HR  SE_NE       1ST     R20       10060406
   294350.00000 3932570.00000    1439.23415   109.10   109.10     0.00   1-HR  SE_NE       1ST     R20       10060406
   294370.00000 3932570.00000    1326.02652   109.10   109.10     0.00   1-HR  SE_NE       1ST     R20        9092807
   294330.00000 3932590.00000    1280.14054   109.10   109.10     0.00   1-HR  SE_NE       1ST     R20       10060406
   294350.00000 3932590.00000    1540.38113   109.10   109.10     0.00   1-HR  SE_NE       1ST     R20       10060406
   294370.00000 3932590.00000    1616.64664   109.10   109.10     0.00   1-HR  SE_NE       1ST     R20       10060406
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SE_ESE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000    2399.71274   109.10   109.10     0.00   1-HR  SE_ESE      1ST     R20       11012917
   294350.00000 3932550.00000    2584.97121   109.10   109.10     0.00   1-HR  SE_ESE      1ST     R20       11012917
   294370.00000 3932550.00000    2794.07309   109.10   109.10     0.00   1-HR  SE_ESE      1ST     R20       11012917
   294330.00000 3932570.00000    1568.09292   109.10   109.10     0.00   1-HR  SE_ESE      1ST     R20       11012917
   294350.00000 3932570.00000    1693.47559   109.10   109.10     0.00   1-HR  SE_ESE      1ST     R20        8122122
   294370.00000 3932570.00000    1905.89996   109.10   109.10     0.00   1-HR  SE_ESE      1ST     R20        8122122
   294330.00000 3932590.00000    1689.50103   109.10   109.10     0.00   1-HR  SE_ESE      1ST     R20        8122122
   294350.00000 3932590.00000    1773.27703   109.10   109.10     0.00   1-HR  SE_ESE      1ST     R20        8122122
   294370.00000 3932590.00000    1957.88034   109.10   109.10     0.00   1-HR  SE_ESE      1ST     R20       11021504
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: SE_ENE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* _____________ _____________  ____________   _____   _____    _____   _____  ________  ________  ________  ________
   294330.00000 3932550.00000    1512.94361   109.10   109.10     0.00    1-HR  SE_ENE      1ST     R20       10012520
   294350.00000 3932550.00000    1608.91993   109.10   109.10     0.00    1-HR  SE_ENE      1ST     R20       10012520
   294370.00000 3932550.00000    1778.62204   109.10   109.10     0.00    1-HR  SE_ENE      1ST     R20        9111708
   294330.00000 3932570.00000    1646.02845   109.10   109.10     0.00    1-HR  SE_ENE      1ST     R20        8092607
   294350.00000 3932570.00000    1796.07458   109.10   109.10     0.00    1-HR  SE_ENE      1ST     R20        8092607
   294370.00000 3932570.00000    1958.34557   109.10   109.10     0.00    1-HR  SE_ENE      1ST     R20        8092607
   294330.00000 3932590.00000    1816.61623   109.10   109.10     0.00    1-HR  SE_ENE      1ST     R20       11012917
   294350.00000 3932590.00000    1911.09260   109.10   109.10     0.00    1-HR  SE_ENE      1ST     R20       11012917
   294370.00000 3932590.00000    2048.36021   109.10   109.10     0.00    1-HR  SE_ENE      1ST     R20        7111708
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: Q_WSW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ___________
   294330.00000 3932550.00000      46.06648   109.10   109.10     0.00   1-HR  Q_WSW       1ST     R20         8010422
   294350.00000 3932550.00000      43.96429   109.10   109.10     0.00   1-HR  Q_WSW       1ST     R20         8010422
   294370.00000 3932550.00000      41.99900   109.10   109.10     0.00   1-HR  Q_WSW       1ST     R20         8010422
   294330.00000 3932570.00000      45.67204   109.10   109.10     0.00   1-HR  Q_WSW       1ST     R20         8122219
   294350.00000 3932570.00000      43.52856   109.10   109.10     0.00   1-HR  Q_WSW       1ST     R20         8122219
   294370.00000 3932570.00000      41.51779   109.10   109.10     0.00   1-HR  Q_WSW       1ST     R20         8122219
   294330.00000 3932590.00000      44.41731   109.10   109.10     0.00   1-HR  Q_WSW       1ST     R20         8122219
   294350.00000 3932590.00000      42.69799   109.10   109.10     0.00   1-HR  Q_WSW       1ST     R20         8122219
   294370.00000 3932590.00000      41.03322   109.10   109.10     0.00   1-HR  Q_WSW       1ST     R20         8122219
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: Q_WNW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ___________
   294330.00000 3932550.00000      40.65535   109.10   109.10     0.00   1-HR  Q_WNW       1ST     R20         8012806
   294350.00000 3932550.00000      38.85563   109.10   109.10     0.00   1-HR  Q_WNW       1ST     R20         8122222
   294370.00000 3932550.00000      37.13230   109.10   109.10     0.00   1-HR  Q_WNW       1ST     R20         8122222
   294330.00000 3932570.00000      40.41510   109.10   109.10     0.00   1-HR  Q_WNW       1ST     R20         8122221
   294350.00000 3932570.00000      38.43396   109.10   109.10     0.00   1-HR  Q_WNW       1ST     R20         8122221
   294370.00000 3932570.00000      36.57554   109.10   109.10     0.00   1-HR  Q_WNW       1ST     R20         8122221
   294330.00000 3932590.00000      40.92188   109.10   109.10     0.00   1-HR  Q_WNW       1ST     R20         8021502
   294350.00000 3932590.00000      39.14337   109.10   109.10     0.00   1-HR  Q_WNW       1ST     R20         8021502
   294370.00000 3932590.00000      37.46838   109.10   109.10     0.00   1-HR  Q_WNW       1ST     R20         8021502
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: Q_SW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000      36.05485   109.10   109.10     0.00   1-HR  Q_SW        1ST     R20        10011817
   294350.00000 3932550.00000      35.18909   109.10   109.10     0.00   1-HR  Q_SW        1ST     R20         8012802
   294370.00000 3932550.00000      34.24830   109.10   109.10     0.00   1-HR  Q_SW        1ST     R20         8012802
   294330.00000 3932570.00000      33.28493   109.10   109.10     0.00   1-HR  Q_SW        1ST     R20        10011817
   294350.00000 3932570.00000      33.45021   109.10   109.10     0.00   1-HR  Q_SW        1ST     R20         8012802
   294370.00000 3932570.00000      34.12762   109.10   109.10     0.00   1-HR  Q_SW        1ST     R20         8012802
   294330.00000 3932590.00000      30.26674   109.10   109.10     0.00   1-HR  Q_SW        1ST     R20        11120201
   294350.00000 3932590.00000      30.75298   109.10   109.10     0.00   1-HR  Q_SW        1ST     R20        10011817
   294370.00000 3932590.00000      32.25720   109.10   109.10     0.00   1-HR  Q_SW        1ST     R20         8012802
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: Q_SSW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ___________
   294330.00000 3932550.00000      45.88194   109.10   109.10     0.00   1-HR  Q_SSW       1ST     R20         8022405
   294350.00000 3932550.00000      44.53726   109.10   109.10     0.00   1-HR  Q_SSW       1ST     R20         8022406
   294370.00000 3932550.00000      42.48381   109.10   109.10     0.00   1-HR  Q_SSW       1ST     R20        10041119
   294330.00000 3932570.00000      43.57189   109.10   109.10     0.00   1-HR  Q_SSW       1ST     R20         8022405
   294350.00000 3932570.00000      42.15791   109.10   109.10     0.00   1-HR  Q_SSW       1ST     R20         8022406
   294370.00000 3932570.00000      40.58214   109.10   109.10     0.00   1-HR  Q_SSW       1ST     R20        10041119
   294330.00000 3932590.00000      41.40314   109.10   109.10     0.00   1-HR  Q_SSW       1ST     R20         8022405
   294350.00000 3932590.00000      39.96403   109.10   109.10     0.00   1-HR  Q_SSW       1ST     R20         8022406
   294370.00000 3932590.00000      39.24190   109.10   109.10     0.00   1-HR  Q_SSW       1ST     R20         9121218
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: Q_SSE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000      40.12240   109.10   109.10     0.00   1-HR  Q_SSE       1ST     R20        9121218
   294350.00000 3932550.00000      35.23987   109.10   109.10     0.00   1-HR  Q_SSE       1ST     R20        9040524
   294370.00000 3932550.00000      37.14042   109.10   109.10     0.00   1-HR  Q_SSE       1ST     R20        8010420
   294330.00000 3932570.00000      39.12597   109.10   109.10     0.00   1-HR  Q_SSE       1ST     R20        9121218
   294350.00000 3932570.00000      34.68414   109.10   109.10     0.00   1-HR  Q_SSE       1ST     R20        9040524
   294370.00000 3932570.00000      36.19727   109.10   109.10     0.00   1-HR  Q_SSE       1ST     R20        8010420
   294330.00000 3932590.00000      38.11528   109.10   109.10     0.00   1-HR  Q_SSE       1ST     R20        9121218
   294350.00000 3932590.00000      34.06234   109.10   109.10     0.00   1-HR  Q_SSE       1ST     R20        9040524
   294370.00000 3932590.00000      35.18415   109.10   109.10     0.00   1-HR  Q_SSE       1ST     R20        8010420
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: Q_SE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000      37.38702   109.10   109.10     0.00   1-HR  Q_SE        1ST     R20        8012423
   294350.00000 3932550.00000      38.30304   109.10   109.10     0.00   1-HR  Q_SE        1ST     R20       10122207
   294370.00000 3932550.00000      39.59533   109.10   109.10     0.00   1-HR  Q_SE        1ST     R20       10122122
   294330.00000 3932570.00000      36.29209   109.10   109.10     0.00   1-HR  Q_SE        1ST     R20       10122207
   294350.00000 3932570.00000      37.54478   109.10   109.10     0.00   1-HR  Q_SE        1ST     R20       10122122
   294370.00000 3932570.00000      38.54547   109.10   109.10     0.00   1-HR  Q_SE        1ST     R20       10022702
   294330.00000 3932590.00000      35.63385   109.10   109.10     0.00   1-HR  Q_SE        1ST     R20       10122122
   294350.00000 3932590.00000      36.54368   109.10   109.10     0.00   1-HR  Q_SE        1ST     R20       10022702
   294370.00000 3932590.00000      37.38021   109.10   109.10     0.00   1-HR  Q_SE        1ST     R20       10022701
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: Q_NW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000      33.04037   109.10   109.10     0.00   1-HR  Q_NW        1ST     R20        9011009
   294350.00000 3932550.00000      31.26229   109.10   109.10     0.00   1-HR  Q_NW        1ST     R20        9011009
   294370.00000 3932550.00000      29.32860   109.10   109.10     0.00   1-HR  Q_NW        1ST     R20        9011009
   294330.00000 3932570.00000      32.15826   109.10   109.10     0.00   1-HR  Q_NW        1ST     R20        9011009
   294350.00000 3932570.00000      31.09759   109.10   109.10     0.00   1-HR  Q_NW        1ST     R20       10122920
   294370.00000 3932570.00000      30.18898   109.10   109.10     0.00   1-HR  Q_NW        1ST     R20       10122920
   294330.00000 3932590.00000      33.13224   109.10   109.10     0.00   1-HR  Q_NW        1ST     R20       10122920
   294350.00000 3932590.00000      32.16623   109.10   109.10     0.00   1-HR  Q_NW        1ST     R20       10122920
   294370.00000 3932590.00000      31.21839   109.10   109.10     0.00   1-HR  Q_NW        1ST     R20       11022620
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: Q_NNW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000      28.47427   109.10   109.10     0.00   1-HR  Q_NNW       1ST     R20         8012219
   294350.00000 3932550.00000      29.82678   109.10   109.10     0.00   1-HR  Q_NNW       1ST     R20         8012219
   294370.00000 3932550.00000      29.51913   109.10   109.10     0.00   1-HR  Q_NNW       1ST     R20         8012219
   294330.00000 3932570.00000      29.87937   109.10   109.10     0.00   1-HR  Q_NNW       1ST     R20         8012219
   294350.00000 3932570.00000      31.23990   109.10   109.10     0.00   1-HR  Q_NNW       1ST     R20         8012219
   294370.00000 3932570.00000      30.73891   109.10   109.10     0.00   1-HR  Q_NNW       1ST     R20         8012219
   294330.00000 3932590.00000      31.38383   109.10   109.10     0.00   1-HR  Q_NNW       1ST     R20         8012219
   294350.00000 3932590.00000      32.73926   109.10   109.10     0.00   1-HR  Q_NNW       1ST     R20         8012219
   294370.00000 3932590.00000      32.00194   109.10   109.10     0.00   1-HR  Q_NNW       1ST     R20         8012219
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: Q_NNE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  ______  _______  _______  _____  ________  ________  ________  ___________
   294330.00000 3932550.00000      27.68711  109.10   109.10     0.00   1-HR  Q_NNE       1ST     R20         9022620
   294350.00000 3932550.00000      28.34229  109.10   109.10     0.00   1-HR  Q_NNE       1ST     R20         9022620
   294370.00000 3932550.00000      27.29999  109.10   109.10     0.00   1-HR  Q_NNE       1ST     R20         8010218
   294330.00000 3932570.00000      28.22898  109.10   109.10     0.00   1-HR  Q_NNE       1ST     R20         9022620
   294350.00000 3932570.00000      29.07579  109.10   109.10     0.00   1-HR  Q_NNE       1ST     R20         9022620
   294370.00000 3932570.00000      28.31776  109.10   109.10     0.00   1-HR  Q_NNE       1ST     R20         7033119
   294330.00000 3932590.00000      28.85876  109.10   109.10     0.00   1-HR  Q_NNE       1ST     R20         7042919
   294350.00000 3932590.00000      29.79843  109.10   109.10     0.00   1-HR  Q_NNE       1ST     R20         9022620
   294370.00000 3932590.00000      29.49278  109.10   109.10     0.00   1-HR  Q_NNE       1ST     R20         7033119
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: Q_NE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000      27.82579   109.10   109.10     0.00   1-HR  Q_NE        1ST     R20       11012617
   294350.00000 3932550.00000      29.58346   109.10   109.10     0.00   1-HR  Q_NE        1ST     R20       11012617
   294370.00000 3932550.00000      30.53119   109.10   109.10     0.00   1-HR  Q_NE        1ST     R20       11012617
   294330.00000 3932570.00000      28.20656   109.10   109.10     0.00   1-HR  Q_NE        1ST     R20        8121324
   294350.00000 3932570.00000      29.04788   109.10   109.10     0.00   1-HR  Q_NE        1ST     R20       11012617
   294370.00000 3932570.00000      30.99073   109.10   109.10     0.00   1-HR  Q_NE        1ST     R20       11012617
   294330.00000 3932590.00000      29.17345   109.10   109.10     0.00   1-HR  Q_NE        1ST     R20        8121324
   294350.00000 3932590.00000      29.70754   109.10   109.10     0.00   1-HR  Q_NE        1ST     R20        8121324
   294370.00000 3932590.00000      30.30867   109.10   109.10     0.00   1-HR  Q_NE        1ST     R20       11012617
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: Q_ESE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ___________
   294330.00000 3932550.00000      32.16080   109.10   109.10     0.00   1-HR  Q_ESE       1ST     R20        10020608
   294350.00000 3932550.00000      33.03322   109.10   109.10     0.00   1-HR  Q_ESE       1ST     R20        10020608
   294370.00000 3932550.00000      33.90695   109.10   109.10     0.00   1-HR  Q_ESE       1ST     R20        10020608
   294330.00000 3932570.00000      31.72298   109.10   109.10     0.00   1-HR  Q_ESE       1ST     R20        10020607
   294350.00000 3932570.00000      32.15742   109.10   109.10     0.00   1-HR  Q_ESE       1ST     R20        10020607
   294370.00000 3932570.00000      32.53793   109.10   109.10     0.00   1-HR  Q_ESE       1ST     R20        10020607
   294330.00000 3932590.00000      33.21733   109.10   109.10     0.00   1-HR  Q_ESE       1ST     R20        10020606
   294350.00000 3932590.00000      34.22730   109.10   109.10     0.00   1-HR  Q_ESE       1ST     R20        10020606
   294370.00000 3932590.00000      35.22195   109.10   109.10     0.00   1-HR  Q_ESE       1ST     R20        10020606
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* AERMOD ( 14134):  School EQHO 100515                                        10/05/15
* AERMET ( 14134):                                                            14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: Q_ENE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000      31.30314   109.10   109.10     0.00   1-HR  Q_ENE       1ST     R20       10012621
   294350.00000 3932550.00000      31.48960   109.10   109.10     0.00   1-HR  Q_ENE       1ST     R20       10012621
   294370.00000 3932550.00000      31.57806   109.10   109.10     0.00   1-HR  Q_ENE       1ST     R20       10012621
   294330.00000 3932570.00000      32.90261   109.10   109.10     0.00   1-HR  Q_ENE       1ST     R20       10012621
   294350.00000 3932570.00000      33.42187   109.10   109.10     0.00   1-HR  Q_ENE       1ST     R20       10012621
   294370.00000 3932570.00000      33.88614   109.10   109.10     0.00   1-HR  Q_ENE       1ST     R20       10012621
   294330.00000 3932590.00000      33.69183   109.10   109.10     0.00   1-HR  Q_ENE       1ST     R20       10020608
   294350.00000 3932590.00000      34.62963   109.10   109.10     0.00   1-HR  Q_ENE       1ST     R20       10020608
   294370.00000 3932590.00000      35.57033   109.10   109.10     0.00   1-HR  Q_ENE       1ST     R20       10020608
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: O330
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000      17.31430   109.10   109.10     0.00   1-HR  O330        1ST     R20        8021823
   294350.00000 3932550.00000      17.11033   109.10   109.10     0.00   1-HR  O330        1ST     R20        8021823
   294370.00000 3932550.00000      17.07824   109.10   109.10     0.00   1-HR  O330        1ST     R20        9011009
   294330.00000 3932570.00000      17.37578   109.10   109.10     0.00   1-HR  O330        1ST     R20        8021823
   294350.00000 3932570.00000      17.13175   109.10   109.10     0.00   1-HR  O330        1ST     R20        9011009
   294370.00000 3932570.00000      17.42633   109.10   109.10     0.00   1-HR  O330        1ST     R20        9011009
   294330.00000 3932590.00000      17.37662   109.10   109.10     0.00   1-HR  O330        1ST     R20        8021823
   294350.00000 3932590.00000      17.49660   109.10   109.10     0.00   1-HR  O330        1ST     R20        9011009
   294370.00000 3932590.00000      17.76719   109.10   109.10     0.00   1-HR  O330        1ST     R20        9011009
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: O300
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000      18.46031   109.10   109.10     0.00   1-HR  O300        1ST     R20        11010605
   294350.00000 3932550.00000      18.34581   109.10   109.10     0.00   1-HR  O300        1ST     R20        11010605
   294370.00000 3932550.00000      18.19271   109.10   109.10     0.00   1-HR  O300        1ST     R20         9013104
   294330.00000 3932570.00000      18.47405   109.10   109.10     0.00   1-HR  O300        1ST     R20        11010605
   294350.00000 3932570.00000      18.40899   109.10   109.10     0.00   1-HR  O300        1ST     R20         9013104
   294370.00000 3932570.00000      18.29862   109.10   109.10     0.00   1-HR  O300        1ST     R20         9013104
   294330.00000 3932590.00000      18.59181   109.10   109.10     0.00   1-HR  O300        1ST     R20         9013104
   294350.00000 3932590.00000      18.42767   109.10   109.10     0.00   1-HR  O300        1ST     R20         9013104
   294370.00000 3932590.00000      18.58256   109.10   109.10     0.00   1-HR  O300        1ST     R20         8021905
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: O270
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ___________
   294330.00000 3932550.00000      18.81000   109.10   109.10     0.00   1-HR  O270        1ST     R20        9022007
   294350.00000 3932550.00000      18.76318   109.10   109.10     0.00   1-HR  O270        1ST     R20        9022007
   294370.00000 3932550.00000      18.71331   109.10   109.10     0.00   1-HR  O270        1ST     R20        9022007
   294330.00000 3932570.00000      18.79690   109.10   109.10     0.00   1-HR  O270        1ST     R20        9022007
   294350.00000 3932570.00000      18.73593   109.10   109.10     0.00   1-HR  O270        1ST     R20        9022007
   294370.00000 3932570.00000      18.67254   109.10   109.10     0.00   1-HR  O270        1ST     R20        9022007
   294330.00000 3932590.00000      18.69733   109.10   109.10     0.00   1-HR  O270        1ST     R20       11010405
   294350.00000 3932590.00000      18.64399   109.10   109.10     0.00   1-HR  O270        1ST     R20       11010405
   294370.00000 3932590.00000      18.58832   109.10   109.10     0.00   1-HR  O270        1ST     R20       11010405
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: O240
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000      18.40791   109.10   109.10     0.00   1-HR  O240        1ST     R20        7040603
   294350.00000 3932550.00000      18.24825   109.10   109.10     0.00   1-HR  O240        1ST     R20        9042103
   294370.00000 3932550.00000      18.45720   109.10   109.10     0.00   1-HR  O240        1ST     R20        9042103
   294330.00000 3932570.00000      18.89791   109.10   109.10     0.00   1-HR  O240        1ST     R20        7121106
   294350.00000 3932570.00000      18.53310   109.10   109.10     0.00   1-HR  O240        1ST     R20        7040603
   294370.00000 3932570.00000      18.31516   109.10   109.10     0.00   1-HR  O240        1ST     R20        7040603
   294330.00000 3932590.00000      19.33069   109.10   109.10     0.00   1-HR  O240        1ST     R20        7121106
   294350.00000 3932590.00000      19.03910   109.10   109.10     0.00   1-HR  O240        1ST     R20        7121106
   294370.00000 3932590.00000      18.64187   109.10   109.10     0.00   1-HR  O240        1ST     R20        7121106
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: O210
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000      18.71744   109.10   109.10     0.00   1-HR  O210        1ST     R20        7032804
   294350.00000 3932550.00000      18.41885   109.10   109.10     0.00   1-HR  O210        1ST     R20        7032804
   294370.00000 3932550.00000      18.12085   109.10   109.10     0.00   1-HR  O210        1ST     R20       10032723
   294330.00000 3932570.00000      18.92243   109.10   109.10     0.00   1-HR  O210        1ST     R20        7010123
   294350.00000 3932570.00000      18.49166   109.10   109.10     0.00   1-HR  O210        1ST     R20        7032804
   294370.00000 3932570.00000      18.08983   109.10   109.10     0.00   1-HR  O210        1ST     R20        7032804
   294330.00000 3932590.00000      19.06044   109.10   109.10     0.00   1-HR  O210        1ST     R20        7010123
   294350.00000 3932590.00000      18.58718   109.10   109.10     0.00   1-HR  O210        1ST     R20        7010123
   294370.00000 3932590.00000      18.22517   109.10   109.10     0.00   1-HR  O210        1ST     R20        7032804
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: O180
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ___________
   294330.00000 3932550.00000      19.10661   109.10   109.10     0.00   1-HR  O180        1ST     R20       11021523
   294350.00000 3932550.00000      18.51089   109.10   109.10     0.00   1-HR  O180        1ST     R20       11021523
   294370.00000 3932550.00000      19.00467   109.10   109.10     0.00   1-HR  O180        1ST     R20       10022607
   294330.00000 3932570.00000      19.02089   109.10   109.10     0.00   1-HR  O180        1ST     R20       11021523
   294350.00000 3932570.00000      18.43961   109.10   109.10     0.00   1-HR  O180        1ST     R20       11021523
   294370.00000 3932570.00000      18.89020   109.10   109.10     0.00   1-HR  O180        1ST     R20       10022607
   294330.00000 3932590.00000      18.93360   109.10   109.10     0.00   1-HR  O180        1ST     R20       11021523
   294350.00000 3932590.00000      18.36632   109.10   109.10     0.00   1-HR  O180        1ST     R20       11021523
   294370.00000 3932590.00000      18.77442   109.10   109.10     0.00   1-HR  O180        1ST     R20       10022607
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: O150
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000      19.49166   109.10   109.10     0.00   1-HR  O150        1ST     R20        9122922
   294350.00000 3932550.00000      19.61082   109.10   109.10     0.00   1-HR  O150        1ST     R20        9122922
   294370.00000 3932550.00000      19.67611   109.10   109.10     0.00   1-HR  O150        1ST     R20        7010623
   294330.00000 3932570.00000      19.47651   109.10   109.10     0.00   1-HR  O150        1ST     R20        9122922
   294350.00000 3932570.00000      19.44958   109.10   109.10     0.00   1-HR  O150        1ST     R20        7010623
   294370.00000 3932570.00000      19.58499   109.10   109.10     0.00   1-HR  O150        1ST     R20        7010623
   294330.00000 3932590.00000      19.35737   109.10   109.10     0.00   1-HR  O150        1ST     R20        9122922
   294350.00000 3932590.00000      19.44228   109.10   109.10     0.00   1-HR  O150        1ST     R20        7010623
   294370.00000 3932590.00000      19.39708   109.10   109.10     0.00   1-HR  O150        1ST     R20        7010623
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: O120
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ___________
   294330.00000 3932550.00000      18.53431   109.10   109.10     0.00   1-HR  O120        1ST     R20        10031923
   294350.00000 3932550.00000      18.71685   109.10   109.10     0.00   1-HR  O120        1ST     R20        10031923
   294370.00000 3932550.00000      18.79987   109.10   109.10     0.00   1-HR  O120        1ST     R20        10031923
   294330.00000 3932570.00000      18.65294   109.10   109.10     0.00   1-HR  O120        1ST     R20        10031923
   294350.00000 3932570.00000      18.67142   109.10   109.10     0.00   1-HR  O120        1ST     R20        10031923
   294370.00000 3932570.00000      18.58513   109.10   109.10     0.00   1-HR  O120        1ST     R20        10031923
   294330.00000 3932590.00000      18.49892   109.10   109.10     0.00   1-HR  O120        1ST     R20        10031923
   294350.00000 3932590.00000      18.35355   109.10   109.10     0.00   1-HR  O120        1ST     R20        10031923
   294370.00000 3932590.00000      18.15777   109.10   109.10     0.00   1-HR  O120        1ST     R20         9010209
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: 0090
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000      17.34057   109.10   109.10     0.00   1-HR  0090        1ST     R20        11120601
   294350.00000 3932550.00000      17.43958   109.10   109.10     0.00   1-HR  0090        1ST     R20        11120601
   294370.00000 3932550.00000      17.53772   109.10   109.10     0.00   1-HR  0090        1ST     R20        11120601
   294330.00000 3932570.00000      17.05843   109.10   109.10     0.00   1-HR  0090        1ST     R20         9042402
   294350.00000 3932570.00000      17.12808   109.10   109.10     0.00   1-HR  0090        1ST     R20         9042402
   294370.00000 3932570.00000      17.19593   109.10   109.10     0.00   1-HR  0090        1ST     R20         9042402
   294330.00000 3932590.00000      17.25269   109.10   109.10     0.00   1-HR  0090        1ST     R20         9042402
   294350.00000 3932590.00000      17.31545   109.10   109.10     0.00   1-HR  0090        1ST     R20         9042402
   294370.00000 3932590.00000      17.37599   109.10   109.10     0.00   1-HR  0090        1ST     R20         9042402
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: 0060
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000      17.07280   109.10   109.10     0.00   1-HR  0060        1ST     R20         8120918
   294350.00000 3932550.00000      17.10290   109.10   109.10     0.00   1-HR  0060        1ST     R20         8120918
   294370.00000 3932550.00000      17.04448   109.10   109.10     0.00   1-HR  0060        1ST     R20         8120918
   294330.00000 3932570.00000      16.87922   109.10   109.10     0.00   1-HR  0060        1ST     R20         8120918
   294350.00000 3932570.00000      17.05843   109.10   109.10     0.00   1-HR  0060        1ST     R20         8120918
   294370.00000 3932570.00000      17.15488   109.10   109.10     0.00   1-HR  0060        1ST     R20         8120918
   294330.00000 3932590.00000      16.52605   109.10   109.10     0.00   1-HR  0060        1ST     R20         9043019
   294350.00000 3932590.00000      16.73340   109.10   109.10     0.00   1-HR  0060        1ST     R20         8120918
   294370.00000 3932590.00000      16.97919   109.10   109.10     0.00   1-HR  0060        1ST     R20         8120918
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: 0030
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000      16.77308   109.10   109.10     0.00   1-HR  0030        1ST     R20        9013002
   294350.00000 3932550.00000      16.65263   109.10   109.10     0.00   1-HR  0030        1ST     R20        9013002
   294370.00000 3932550.00000      16.76596   109.10   109.10     0.00   1-HR  0030        1ST     R20       11121802
   294330.00000 3932570.00000      16.83391   109.10   109.10     0.00   1-HR  0030        1ST     R20        9013002
   294350.00000 3932570.00000      16.84307   109.10   109.10     0.00   1-HR  0030        1ST     R20        9013002
   294370.00000 3932570.00000      16.74778   109.10   109.10     0.00   1-HR  0030        1ST     R20        9012618
   294330.00000 3932590.00000      16.89159   109.10   109.10     0.00   1-HR  0030        1ST     R20       10121119
   294350.00000 3932590.00000      16.95284   109.10   109.10     0.00   1-HR  0030        1ST     R20        9013002
   294370.00000 3932590.00000      16.87691   109.10   109.10     0.00   1-HR  0030        1ST     R20        9013002
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: 0000
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000      16.24329   109.10   109.10     0.00   1-HR  0000        1ST     R20       11011103
   294350.00000 3932550.00000      16.36818   109.10   109.10     0.00   1-HR  0000        1ST     R20       11012718
   294370.00000 3932550.00000      16.38749   109.10   109.10     0.00   1-HR  0000        1ST     R20       11012718
   294330.00000 3932570.00000      16.36910   109.10   109.10     0.00   1-HR  0000        1ST     R20       11011103
   294350.00000 3932570.00000      16.48074   109.10   109.10     0.00   1-HR  0000        1ST     R20       11012718
   294370.00000 3932570.00000      16.50475   109.10   109.10     0.00   1-HR  0000        1ST     R20       11012718
   294330.00000 3932590.00000      16.49488   109.10   109.10     0.00   1-HR  0000        1ST     R20       11011103
   294350.00000 3932590.00000      16.59305   109.10   109.10     0.00   1-HR  0000        1ST     R20       11012718
   294370.00000 3932590.00000      16.62202   109.10   109.10     0.00   1-HR  0000        1ST     R20       11012718
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: H330
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ___________
   294330.00000 3932550.00000      26.70439   109.10   109.10     0.00   1-HR  H330        1ST     R20         9011009
   294350.00000 3932550.00000      27.53015   109.10   109.10     0.00   1-HR  H330        1ST     R20         9011009
   294370.00000 3932550.00000      28.14978   109.10   109.10     0.00   1-HR  H330        1ST     R20         9011009
   294330.00000 3932570.00000      27.66043   109.10   109.10     0.00   1-HR  H330        1ST     R20         9011009
   294350.00000 3932570.00000      28.39606   109.10   109.10     0.00   1-HR  H330        1ST     R20         9011009
   294370.00000 3932570.00000      28.91047   109.10   109.10     0.00   1-HR  H330        1ST     R20         9011009
   294330.00000 3932590.00000      28.59629   109.10   109.10     0.00   1-HR  H330        1ST     R20         9011009
   294350.00000 3932590.00000      29.22707   109.10   109.10     0.00   1-HR  H330        1ST     R20         9011009
   294370.00000 3932590.00000      29.62231   109.10   109.10     0.00   1-HR  H330        1ST     R20         9011009
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: H300
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000      24.58554   109.10   109.10     0.00   1-HR  H300        1ST     R20        11010604
   294350.00000 3932550.00000      24.41064   109.10   109.10     0.00   1-HR  H300        1ST     R20        11010604
   294370.00000 3932550.00000      24.19258   109.10   109.10     0.00   1-HR  H300        1ST     R20         9122901
   294330.00000 3932570.00000      24.50284   109.10   109.10     0.00   1-HR  H300        1ST     R20         7122618
   294350.00000 3932570.00000      24.56525   109.10   109.10     0.00   1-HR  H300        1ST     R20         9122901
   294370.00000 3932570.00000      24.44535   109.10   109.10     0.00   1-HR  H300        1ST     R20         7122409
   294330.00000 3932590.00000      25.16457   109.10   109.10     0.00   1-HR  H300        1ST     R20         7122409
   294350.00000 3932590.00000      25.07835   109.10   109.10     0.00   1-HR  H300        1ST     R20         7122409
   294370.00000 3932590.00000      25.08821   109.10   109.10     0.00   1-HR  H300        1ST     R20         8021606
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: H270
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000      27.98099   109.10   109.10     0.00   1-HR  H270        1ST     R20         7120716
   294350.00000 3932550.00000      27.71715   109.10   109.10     0.00   1-HR  H270        1ST     R20         7120716
   294370.00000 3932550.00000      27.43510   109.10   109.10     0.00   1-HR  H270        1ST     R20         7120716
   294330.00000 3932570.00000      29.02222   109.10   109.10     0.00   1-HR  H270        1ST     R20         7120716
   294350.00000 3932570.00000      28.65046   109.10   109.10     0.00   1-HR  H270        1ST     R20         7120716
   294370.00000 3932570.00000      28.26936   109.10   109.10     0.00   1-HR  H270        1ST     R20         7120716
   294330.00000 3932590.00000      28.42288   109.10   109.10     0.00   1-HR  H270        1ST     R20         7120716
   294350.00000 3932590.00000      28.03045   109.10   109.10     0.00   1-HR  H270        1ST     R20         7120716
   294370.00000 3932590.00000      27.63231   109.10   109.10     0.00   1-HR  H270        1ST     R20         7120716
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: H240
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000      27.76645   109.10   109.10     0.00   1-HR  H240        1ST     R20       11120123
   294350.00000 3932550.00000      26.60703   109.10   109.10     0.00   1-HR  H240        1ST     R20       11020203
   294370.00000 3932550.00000      26.42182   109.10   109.10     0.00   1-HR  H240        1ST     R20       11120204
   294330.00000 3932570.00000      27.92534   109.10   109.10     0.00   1-HR  H240        1ST     R20       11120123
   294350.00000 3932570.00000      27.34558   109.10   109.10     0.00   1-HR  H240        1ST     R20       11120123
   294370.00000 3932570.00000      26.44835   109.10   109.10     0.00   1-HR  H240        1ST     R20       11120123
   294330.00000 3932590.00000      27.02943   109.10   109.10     0.00   1-HR  H240        1ST     R20       11020901
   294350.00000 3932590.00000      26.96300   109.10   109.10     0.00   1-HR  H240        1ST     R20       11120123
   294370.00000 3932590.00000      26.67751   109.10   109.10     0.00   1-HR  H240        1ST     R20       11120123
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: H210
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ___________
   294330.00000 3932550.00000      27.94690   109.10   109.10     0.00   1-HR  H210        1ST     R20       11011509
   294350.00000 3932550.00000      28.72811   109.10   109.10     0.00   1-HR  H210        1ST     R20       11011509
   294370.00000 3932550.00000      29.25971   109.10   109.10     0.00   1-HR  H210        1ST     R20       11011509
   294330.00000 3932570.00000      26.85942   109.10   109.10     0.00   1-HR  H210        1ST     R20       11011509
   294350.00000 3932570.00000      27.76008   109.10   109.10     0.00   1-HR  H210        1ST     R20       11011509
   294370.00000 3932570.00000      28.42889   109.10   109.10     0.00   1-HR  H210        1ST     R20       11011509
   294330.00000 3932590.00000      25.74585   109.10   109.10     0.00   1-HR  H210        1ST     R20       11011509
   294350.00000 3932590.00000      26.74670   109.10   109.10     0.00   1-HR  H210        1ST     R20       11011509
   294370.00000 3932590.00000      27.53464   109.10   109.10     0.00   1-HR  H210        1ST     R20       11011509
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: H180
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000       27.70365  109.10   109.10     0.00   1-HR  H180        1ST     R20        8012417
   294350.00000 3932550.00000       26.98784  109.10   109.10     0.00   1-HR  H180        1ST     R20        9121218
   294370.00000 3932550.00000       26.46367  109.10   109.10     0.00   1-HR  H180        1ST     R20        9021823
   294330.00000 3932570.00000       27.10681  109.10   109.10     0.00   1-HR  H180        1ST     R20        8012417
   294350.00000 3932570.00000       26.33086  109.10   109.10     0.00   1-HR  H180        1ST     R20       11011922
   294370.00000 3932570.00000       26.11873  109.10   109.10     0.00   1-HR  H180        1ST     R20        9021823
   294330.00000 3932590.00000       26.52370  109.10   109.10     0.00   1-HR  H180        1ST     R20        8012417
   294350.00000 3932590.00000       25.94760  109.10   109.10     0.00   1-HR  H180        1ST     R20       11011922
   294370.00000 3932590.00000       25.76697  109.10   109.10     0.00   1-HR  H180        1ST     R20        9021823
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: H150
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ___________
   294330.00000 3932550.00000      26.31028   109.10   109.10     0.00   1-HR  H150        1ST     R20       10011821
   294350.00000 3932550.00000      26.99691   109.10   109.10     0.00   1-HR  H150        1ST     R20       10011822
   294370.00000 3932550.00000      29.82300   109.10   109.10     0.00   1-HR  H150        1ST     R20       11021508
   294330.00000 3932570.00000      26.17543   109.10   109.10     0.00   1-HR  H150        1ST     R20       10011822
   294350.00000 3932570.00000      27.96997   109.10   109.10     0.00   1-HR  H150        1ST     R20       11021508
   294370.00000 3932570.00000      30.47230   109.10   109.10     0.00   1-HR  H150        1ST     R20       11021508
   294330.00000 3932590.00000      26.04537   109.10   109.10     0.00   1-HR  H150        1ST     R20       10011822
   294350.00000 3932590.00000      28.91238   109.10   109.10     0.00   1-HR  H150        1ST     R20       11021508
   294370.00000 3932590.00000      30.67894   109.10   109.10     0.00   1-HR  H150        1ST     R20       11021508
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: H120
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ___________
   294330.00000 3932550.00000       29.58291   109.10   109.10     0.00   1-HR  H120        1ST     R20         9010209
   294350.00000 3932550.00000       29.96235   109.10   109.10     0.00   1-HR  H120        1ST     R20         9010209
   294370.00000 3932550.00000       30.25501   109.10   109.10     0.00   1-HR  H120        1ST     R20         9010209
   294330.00000 3932570.00000       29.33505   109.10   109.10     0.00   1-HR  H120        1ST     R20         9010209
   294350.00000 3932570.00000       29.55630   109.10   109.10     0.00   1-HR  H120        1ST     R20         9010209
   294370.00000 3932570.00000       29.89101   109.10   109.10     0.00   1-HR  H120        1ST     R20         7022608
   294330.00000 3932590.00000       28.84540   109.10   109.10     0.00   1-HR  H120        1ST     R20         9010209
   294350.00000 3932590.00000       28.90926   109.10   109.10     0.00   1-HR  H120        1ST     R20         9010209
   294370.00000 3932590.00000       28.87099   109.10   109.10     0.00   1-HR  H120        1ST     R20         9010209
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: H090
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000      22.99191   109.10   109.10     0.00   1-HR  H090        1ST     R20       10030421
   294350.00000 3932550.00000      23.49118   109.10   109.10     0.00   1-HR  H090        1ST     R20       10020608
   294370.00000 3932550.00000      24.14472   109.10   109.10     0.00   1-HR  H090        1ST     R20       10020608
   294330.00000 3932570.00000      22.55133   109.10   109.10     0.00   1-HR  H090        1ST     R20       11110206
   294350.00000 3932570.00000      22.77471   109.10   109.10     0.00   1-HR  H090        1ST     R20       10020607
   294370.00000 3932570.00000      23.26234   109.10   109.10     0.00   1-HR  H090        1ST     R20       10020607
   294330.00000 3932590.00000      23.96343   109.10   109.10     0.00   1-HR  H090        1ST     R20       10020607
   294350.00000 3932590.00000      24.47682   109.10   109.10     0.00   1-HR  H090        1ST     R20       10020607
   294370.00000 3932590.00000      24.99882   109.10   109.10     0.00   1-HR  H090        1ST     R20       10020607
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: H060
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ___________
   294330.00000 3932550.00000      23.09800   109.10   109.10     0.00   1-HR  H060        1ST     R20       11012618
   294350.00000 3932550.00000      23.27453   109.10   109.10     0.00   1-HR  H060        1ST     R20       11012618
   294370.00000 3932550.00000      23.18171   109.10   109.10     0.00   1-HR  H060        1ST     R20       11012618
   294330.00000 3932570.00000      23.77450   109.10   109.10     0.00   1-HR  H060        1ST     R20       10011303
   294350.00000 3932570.00000      23.62956   109.10   109.10     0.00   1-HR  H060        1ST     R20       10011303
   294370.00000 3932570.00000      23.75494   109.10   109.10     0.00   1-HR  H060        1ST     R20       11012618
   294330.00000 3932590.00000      23.92160   109.10   109.10     0.00   1-HR  H060        1ST     R20       10011303
   294350.00000 3932590.00000      24.26022   109.10   109.10     0.00   1-HR  H060        1ST     R20       10011303
   294370.00000 3932590.00000      24.33519   109.10   109.10     0.00   1-HR  H060        1ST     R20       10011303
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: H030
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000      23.72315   109.10   109.10     0.00   1-HR  H030        1ST     R20         9013017
   294350.00000 3932550.00000      23.62467   109.10   109.10     0.00   1-HR  H030        1ST     R20         9013017
   294370.00000 3932550.00000      23.06081   109.10   109.10     0.00   1-HR  H030        1ST     R20         8010124
   294330.00000 3932570.00000      23.64574   109.10   109.10     0.00   1-HR  H030        1ST     R20         9013017
   294350.00000 3932570.00000      24.04280   109.10   109.10     0.00   1-HR  H030        1ST     R20         9013017
   294370.00000 3932570.00000      23.60504   109.10   109.10     0.00   1-HR  H030        1ST     R20         9013017
   294330.00000 3932590.00000      23.23532   109.10   109.10     0.00   1-HR  H030        1ST     R20         7121118
   294350.00000 3932590.00000      24.13557   109.10   109.10     0.00   1-HR  H030        1ST     R20         9013017
   294370.00000 3932590.00000      24.21693   109.10   109.10     0.00   1-HR  H030        1ST     R20         9013017
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: H000
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000       22.10406   109.10   109.10     0.00   1-HR  H000        1ST     R20         8031219
   294350.00000 3932550.00000       22.50642   109.10   109.10     0.00   1-HR  H000        1ST     R20         8120206
   294370.00000 3932550.00000       22.92628   109.10   109.10     0.00   1-HR  H000        1ST     R20         8120206
   294330.00000 3932570.00000       22.28105   109.10   109.10     0.00   1-HR  H000        1ST     R20         8010918
   294350.00000 3932570.00000       22.67366   109.10   109.10     0.00   1-HR  H000        1ST     R20         8120206
   294370.00000 3932570.00000       23.11486   109.10   109.10     0.00   1-HR  H000        1ST     R20         8120206
   294330.00000 3932590.00000       22.67749   109.10   109.10     0.00   1-HR  H000        1ST     R20         8010918
   294350.00000 3932590.00000       22.89579   109.10   109.10     0.00   1-HR  H000        1ST     R20         8010218
   294370.00000 3932590.00000       23.29283   109.10   109.10     0.00   1-HR  H000        1ST     R20         8120206
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: E_WSW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000      81.70837   109.10   109.10     0.00   1-HR  E_WSW       1ST     R20        8122517
   294350.00000 3932550.00000      76.12223   109.10   109.10     0.00   1-HR  E_WSW       1ST     R20        8122517
   294370.00000 3932550.00000      71.01231   109.10   109.10     0.00   1-HR  E_WSW       1ST     R20        8122517
   294330.00000 3932570.00000      79.59483   109.10   109.10     0.00   1-HR  E_WSW       1ST     R20        8022220
   294350.00000 3932570.00000      74.82762   109.10   109.10     0.00   1-HR  E_WSW       1ST     R20        8022220
   294370.00000 3932570.00000      70.27051   109.10   109.10     0.00   1-HR  E_WSW       1ST     R20        8022220
   294330.00000 3932590.00000      75.43109   109.10   109.10     0.00   1-HR  E_WSW       1ST     R20       11040719
   294350.00000 3932590.00000      71.19171   109.10   109.10     0.00   1-HR  E_WSW       1ST     R20        8022218
   294370.00000 3932590.00000      67.13473   109.10   109.10     0.00   1-HR  E_WSW       1ST     R20        8022218
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: E_WNW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  ______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000      70.10046  109.10   109.10     0.00   1-HR  E_WNW       1ST     R20        8020307
   294350.00000 3932550.00000      66.00508  109.10   109.10     0.00   1-HR  E_WNW       1ST     R20        8020307
   294370.00000 3932550.00000      61.84908  109.10   109.10     0.00   1-HR  E_WNW       1ST     R20        8020307
   294330.00000 3932570.00000      72.08996  109.10   109.10     0.00   1-HR  E_WNW       1ST     R20        8122220
   294350.00000 3932570.00000      66.33785  109.10   109.10     0.00   1-HR  E_WNW       1ST     R20        8122220
   294370.00000 3932570.00000      61.06510  109.10   109.10     0.00   1-HR  E_WNW       1ST     R20        8022221
   294330.00000 3932590.00000      71.75745  109.10   109.10     0.00   1-HR  E_WNW       1ST     R20        8022221
   294350.00000 3932590.00000      65.93695  109.10   109.10     0.00   1-HR  E_WNW       1ST     R20        8022221
   294370.00000 3932590.00000      60.72643  109.10   109.10     0.00   1-HR  E_WNW       1ST     R20        8022221
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: E_SW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  _______
   294330.00000 3932550.00000      70.47918   109.10   109.10     0.00   1-HR  E_SW        1ST     R20       10011817
   294350.00000 3932550.00000      66.14630   109.10   109.10     0.00   1-HR  E_SW        1ST     R20       10011817
   294370.00000 3932550.00000      57.56163   109.10   109.10     0.00   1-HR  E_SW        1ST     R20       10011817
   294330.00000 3932570.00000      60.64019   109.10   109.10     0.00   1-HR  E_SW        1ST     R20       10011817
   294350.00000 3932570.00000      62.86428   109.10   109.10     0.00   1-HR  E_SW        1ST     R20       10011817
   294370.00000 3932570.00000      59.87979   109.10   109.10     0.00   1-HR  E_SW        1ST     R20       10011817
   294330.00000 3932590.00000      47.65118   109.10   109.10     0.00   1-HR  E_SW        1ST     R20       10011817
   294350.00000 3932590.00000      54.27126   109.10   109.10     0.00   1-HR  E_SW        1ST     R20       10011817
   294370.00000 3932590.00000      56.36246   109.10   109.10     0.00   1-HR  E_SW        1ST     R20       10011817
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: E_SSW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000      84.81217   109.10   109.10     0.00   1-HR  E_SSW       1ST     R20        8011624
   294350.00000 3932550.00000      83.82647   109.10   109.10     0.00   1-HR  E_SSW       1ST     R20        8022406
   294370.00000 3932550.00000      83.92257   109.10   109.10     0.00   1-HR  E_SSW       1ST     R20        8022406
   294330.00000 3932570.00000      79.25405   109.10   109.10     0.00   1-HR  E_SSW       1ST     R20        8011624
   294350.00000 3932570.00000      78.50071   109.10   109.10     0.00   1-HR  E_SSW       1ST     R20        8022406
   294370.00000 3932570.00000      77.66404   109.10   109.10     0.00   1-HR  E_SSW       1ST     R20        8022406
   294330.00000 3932590.00000      73.80313   109.10   109.10     0.00   1-HR  E_SSW       1ST     R20        8011624
   294350.00000 3932590.00000      73.45765   109.10   109.10     0.00   1-HR  E_SSW       1ST     R20        8022406
   294370.00000 3932590.00000      72.00336   109.10   109.10     0.00   1-HR  E_SSW       1ST     R20        8022406
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* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: E_SSE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000       57.80854   109.10   109.10     0.00   1-HR  E_SSE       1ST     R20        7102023
   294350.00000 3932550.00000       52.69257   109.10   109.10     0.00   1-HR  E_SSE       1ST     R20        7102023
   294370.00000 3932550.00000       45.41582   109.10   109.10     0.00   1-HR  E_SSE       1ST     R20       10112120
   294330.00000 3932570.00000       53.76907   109.10   109.10     0.00   1-HR  E_SSE       1ST     R20        7102023
   294350.00000 3932570.00000       49.95818   109.10   109.10     0.00   1-HR  E_SSE       1ST     R20        7102023
   294370.00000 3932570.00000       44.38356   109.10   109.10     0.00   1-HR  E_SSE       1ST     R20        8051603
   294330.00000 3932590.00000       50.04129   109.10   109.10     0.00   1-HR  E_SSE       1ST     R20        7102023
   294350.00000 3932590.00000       47.22285   109.10   109.10     0.00   1-HR  E_SSE       1ST     R20        7102023
   294370.00000 3932590.00000       43.33317   109.10   109.10     0.00   1-HR  E_SSE       1ST     R20        8051603
```

```
* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: E_SE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000      62.39192   109.10   109.10     0.00   1-HR  E_SE        1ST     R20        9021507
   294350.00000 3932550.00000      65.43157   109.10   109.10     0.00   1-HR  E_SE        1ST     R20        8012601
   294370.00000 3932550.00000      69.04767   109.10   109.10     0.00   1-HR  E_SE        1ST     R20        8012619
   294330.00000 3932570.00000      59.44645   109.10   109.10     0.00   1-HR  E_SE        1ST     R20        9021507
   294350.00000 3932570.00000      63.24101   109.10   109.10     0.00   1-HR  E_SE        1ST     R20       10122124
   294370.00000 3932570.00000      65.10005   109.10   109.10     0.00   1-HR  E_SE        1ST     R20        8010407
   294330.00000 3932590.00000      58.09317   109.10   109.10     0.00   1-HR  E_SE        1ST     R20       10122124
   294350.00000 3932590.00000      58.84184   109.10   109.10     0.00   1-HR  E_SE        1ST     R20        8010407
   294370.00000 3932590.00000      61.74134   109.10   109.10     0.00   1-HR  E_SE        1ST     R20        8012521
```

```
* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: E_NW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000      51.39612   109.10   109.10     0.00   1-HR  E_NW        1ST     R20       10122922
   294350.00000 3932550.00000      48.94367   109.10   109.10     0.00   1-HR  E_NW        1ST     R20        9020918
   294370.00000 3932550.00000      47.93731   109.10   109.10     0.00   1-HR  E_NW        1ST     R20       10122920
   294330.00000 3932570.00000      54.01380   109.10   109.10     0.00   1-HR  E_NW        1ST     R20        9020918
   294350.00000 3932570.00000      52.07230   109.10   109.10     0.00   1-HR  E_NW        1ST     R20       10122924
   294370.00000 3932570.00000      49.73178   109.10   109.10     0.00   1-HR  E_NW        1ST     R20       11022620
   294330.00000 3932590.00000      57.74229   109.10   109.10     0.00   1-HR  E_NW        1ST     R20       10122924
   294350.00000 3932590.00000      54.62256   109.10   109.10     0.00   1-HR  E_NW        1ST     R20       11022619
   294370.00000 3932590.00000      51.83801   109.10   109.10     0.00   1-HR  E_NW        1ST     R20        7021306
```

```
* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: E_NNW
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000      50.48370   109.10   109.10     0.00   1-HR  E_NNW       1ST     R20         7010417
   294350.00000 3932550.00000      53.73015   109.10   109.10     0.00   1-HR  E_NNW       1ST     R20         7010417
   294370.00000 3932550.00000      50.75395   109.10   109.10     0.00   1-HR  E_NNW       1ST     R20         7010417
   294330.00000 3932570.00000      54.62963   109.10   109.10     0.00   1-HR  E_NNW       1ST     R20         7010417
   294350.00000 3932570.00000      57.65786   109.10   109.10     0.00   1-HR  E_NNW       1ST     R20         7010417
   294370.00000 3932570.00000      53.28207   109.10   109.10     0.00   1-HR  E_NNW       1ST     R20         7010417
   294330.00000 3932590.00000      59.64510   109.10   109.10     0.00   1-HR  E_NNW       1ST     R20         8012218
   294350.00000 3932590.00000      61.82493   109.10   109.10     0.00   1-HR  E_NNW       1ST     R20         7010417
   294370.00000 3932590.00000      55.61235   109.10   109.10     0.00   1-HR  E_NNW       1ST     R20         7010417
```

```
* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: E_NNE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* _____________ _____________ _____________ _______ _______ _______ _____ _________ ________ ________ ________
   294330.00000 3932550.00000       45.69686  109.10  109.10    0.00   1-HR  E_NNE       1ST     R20       9040705
   294350.00000 3932550.00000       46.71949  109.10  109.10    0.00   1-HR  E_NNE       1ST     R20       9040705
   294370.00000 3932550.00000       44.27973  109.10  109.10    0.00   1-HR  E_NNE       1ST     R20       7031418
   294330.00000 3932570.00000       48.52500  109.10  109.10    0.00   1-HR  E_NNE       1ST     R20       9040705
   294350.00000 3932570.00000       50.27725  109.10  109.10    0.00   1-HR  E_NNE       1ST     R20       9040705
   294370.00000 3932570.00000       47.34930  109.10  109.10    0.00   1-HR  E_NNE       1ST     R20       9040705
   294330.00000 3932590.00000       52.35110  109.10  109.10    0.00   1-HR  E_NNE       1ST     R20       9040702
   294350.00000 3932590.00000       54.15094  109.10  109.10    0.00   1-HR  E_NNE       1ST     R20       9040705
   294370.00000 3932590.00000       51.24371  109.10  109.10    0.00   1-HR  E_NNE       1ST     R20       9040705
```

```
* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: E_NE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  ______  _______  _______  _____  ________  _________  ________  ___________
   294330.00000 3932550.00000      41.60276  109.10   109.10     0.00   1-HR  E_NE        1ST     R20        10032719
   294350.00000 3932550.00000      43.39554  109.10   109.10     0.00   1-HR  E_NE        1ST     R20         8041119
   294370.00000 3932550.00000      44.98131  109.10   109.10     0.00   1-HR  E_NE        1ST     R20         9041919
   294330.00000 3932570.00000      42.51378  109.10   109.10     0.00   1-HR  E_NE        1ST     R20        10032719
   294350.00000 3932570.00000      45.08166  109.10   109.10     0.00   1-HR  E_NE        1ST     R20         9041920
   294370.00000 3932570.00000      46.70729  109.10   109.10     0.00   1-HR  E_NE        1ST     R20         8041119
   294330.00000 3932590.00000      41.83246  109.10   109.10     0.00   1-HR  E_NE        1ST     R20         9041920
   294350.00000 3932590.00000      46.46705  109.10   109.10     0.00   1-HR  E_NE        1ST     R20         9041920
   294370.00000 3932590.00000      49.94506  109.10   109.10     0.00   1-HR  E_NE        1ST     R20         9041920
```

```
* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: E_ESE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________  _______  _______  _______  _____  ________  ________  ________  ________
   294330.00000 3932550.00000      41.63846   109.10   109.10     0.00   1-HR  E_ESE       1ST     R20        9101406
   294350.00000 3932550.00000      44.81338   109.10   109.10     0.00   1-HR  E_ESE       1ST     R20        9101406
   294370.00000 3932550.00000      48.34285   109.10   109.10     0.00   1-HR  E_ESE       1ST     R20        9101406
   294330.00000 3932570.00000      42.75617   109.10   109.10     0.00   1-HR  E_ESE       1ST     R20        7102206
   294350.00000 3932570.00000      46.20302   109.10   109.10     0.00   1-HR  E_ESE       1ST     R20        7102206
   294370.00000 3932570.00000      50.03133   109.10   109.10     0.00   1-HR  E_ESE       1ST     R20        7102206
   294330.00000 3932590.00000      42.16593   109.10   109.10     0.00   1-HR  E_ESE       1ST     R20        7102206
   294350.00000 3932590.00000      45.18229   109.10   109.10     0.00   1-HR  E_ESE       1ST     R20        9101405
   294370.00000 3932590.00000      49.13455   109.10   109.10     0.00   1-HR  E_ESE       1ST     R20        9101405
```

```
* AERMOD ( 14134):  School EQHO 100515                                          10/05/15
* AERMET ( 14134):                                                              14:12:10
* MODELING OPTIONS USED:  NonDFAULT CONC      FLAT and  ELEV      BETA      ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: E_ENE
*         FOR A TOTAL OF     9 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* _____________ _____________ ____________   _____   _____    _____    ____  ________  ________  ________  ________
   294330.00000 3932550.00000       41.94170   109.10   109.10     0.00    1-HR  E_ENE       1ST     R20        11051819
   294350.00000 3932550.00000       44.08630   109.10   109.10     0.00    1-HR  E_ENE       1ST     R20        11051819
   294370.00000 3932550.00000       46.16298   109.10   109.10     0.00    1-HR  E_ENE       1ST     R20        11051819
   294330.00000 3932570.00000       41.61556   109.10   109.10     0.00    1-HR  E_ENE       1ST     R20        10040419
   294350.00000 3932570.00000       43.82703   109.10   109.10     0.00    1-HR  E_ENE       1ST     R20        11051819
   294370.00000 3932570.00000       46.56891   109.10   109.10     0.00    1-HR  E_ENE       1ST     R20        11051819
   294330.00000 3932590.00000       43.29980   109.10   109.10     0.00    1-HR  E_ENE       1ST     R20         8111502
   294350.00000 3932590.00000       46.57691   109.10   109.10     0.00    1-HR  E_ENE       1ST     R20         8111502
   294370.00000 3932590.00000       50.20891   109.10   109.10     0.00    1-HR  E_ENE       1ST     R20         8111502
```

Appendix C – HARP2 Output

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<!--HARP RISK INPUT FILE-->
<!--Created 2015/10/05 14:19:19-->
<HRA>
  <HRAVERSION>15197</HRAVERSION>
  <Title></Title>
  <AERMODMode>Y</AERMODMode><!--Read AERMOD plot file (Y) or read CSV file (N)-->
  <GLCList>C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\hra\GLCList.csv</GLCList>
  <PollutantList>C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\hra\PolDB.csv</PollutantList>
  <PathwayRecConc>C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\hra\PathwayRec.csv</PathwayRecConc>
  <Output>C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\hra</Output>
  <PollutantNum>9</PollutantNum>
  <RiskScenario>
    <ReceptorType>Resident</ReceptorType><!--Residential, Population, School, or Worker-->
    <UDEDOn>N</UDEDOn><!--Y or N-->
    <ExposureDuration>30</ExposureDuration><!--years-->
    <Scenario>Cancer</Scenario><!--Cancer, NCChronic, NCChronic8HR, NCAcute, All-->
    <StartAge>-0.25</StartAge><!--years-->
    <WorkerExposureFrequency>250</WorkerExposureFrequency><!--days/year-->
    <WorkerNote>NA</WorkerNote>
    <Tier2On>N</Tier2On>
    <IntakeRatePercentile>Derived</IntakeRatePercentile><!--HighEnd, Mean, Derived-->
  </RiskScenario>
<Pathways>
  <Type>2</Type>
  <PathwaysEnabled><!--Y or N-->
    <Inhalation>Y</Inhalation>
    <Soil>Y</Soil>
    <Dermal>Y</Dermal>
    <MothersMilk>Y</MothersMilk>
    <Water>N</Water>
    <Fish>N</Fish>
    <HomegrownCrop>N</HomegrownCrop>
    <Beef>N</Beef>
    <Dairy>N</Dairy>
    <Pig>N</Pig>
    <Chicken>N</Chicken>
    <Egg>N</Egg>
  </PathwaysEnabled>
  <Inhalation>
    <FAH3rdTrito16>N</FAH3rdTrito16><!--Y or N-->
    <FAH16to70>Y</FAH16to70><!--Y or N-->
    <DBRType>LongTerm24HR</DBRType><!--LongTerm24HR, RMP, SedentaryPassive8HR, Light8HR, or Moderate8HR-->
    <GLCAdjustmentFactor>1</GLCAdjustmentFactor>
    <UseAdj>N</UseAdj><!--Y or N-->
    <USEPOSTFILE8REL>N</USEPOSTFILE8REL><!--Y or N-->
    <USEPOSTFILECAN>N</USEPOSTFILECAN><!--Y or N-->
  </Inhalation>
  <Deposition>0.05</Deposition>
  <SoilMixingRate>0.01</SoilMixingRate>
  <DermalClimate>Mixed</DermalClimate><!--Cold, Mixed, or Warm-->
  <HumanWater>
    <SurfaceArea>0</SurfaceArea><!--m^2-->
    <WaterVolume>0</WaterVolume><!--kg-->
    <VolumeChangesPerYear>0</VolumeChangesPerYear>
    <FractionFromContamSource>0</FractionFromContamSource>
    <RecPhysicallyActiveLivesWorkHotClimates>N</RecPhysicallyActiveLivesWorkHotClimates><!--Y or N-->
  </HumanWater>
  <Homegrown>
    <HouseholdType>HouseholdsthatGarden</HouseholdType><!--HouseholdsthatGarden, HouseholdsthatFarm, or UserDefined-->
    <Leafy>0.137</Leafy>
    <Exposed>0.137</Exposed>
    <Protected>0.137</Protected>
    <Root>0.137</Root>
  </Homegrown>
  <Fish>
    <SurfaceArea>0</SurfaceArea><!--m^2-->
    <WaterVolume>0</WaterVolume><!--kg-->
    <VolumeChangesPerYear>0</VolumeChangesPerYear>
    <FractionFromContamSource>0</FractionFromContamSource>
  </Fish>
  <AnimalFractions>
    <HouseholdTypeBD>RaiseHunt</HouseholdTypeBD><!--RaiseHunt, Farm, or UserDefined-->
    <HouseholdTypePCE>RaiseHunt</HouseholdTypePCE><!--RaiseHunt, Farm, or UserDefined-->
    <Beef>0.485</Beef>
    <Pork>0.242</Pork>
    <Poultry>0.156</Poultry>
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    <Dairy>0.207</Dairy>
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  <BeefDairyWater>
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    <WaterVolume>0</WaterVolume><!--kg-->
    <VolumeChangesPerYear>0</VolumeChangesPerYear>
    <FractionFromContamSourceBeef>0</FractionFromContamSourceBeef>
    <FractionFromContamSourceDairy>0</FractionFromContamSourceDairy>
  </BeefDairyWater>
  <BeefFractionFromGrazing>0.5</BeefFractionFromGrazing>
  <DairyFractionFromGrazing>0.5</DairyFractionFromGrazing>
  <PigChickenEggsWater>
    <SurfaceArea>0</SurfaceArea><!--m^2-->
    <WaterVolume>0</WaterVolume><!--kg-->
    <VolumeChangesPerYear>0</VolumeChangesPerYear>
    <FractionFromContamSourcePig>0</FractionFromContamSourcePig>
    <FractionFromContamSourceChicken>0</FractionFromContamSourceChicken>
    <FractionFromContamSourceEggs>0</FractionFromContamSourceEggs>
  </PigChickenEggsWater>
  <Pig>
    <FractionEatenOffGround>0</FractionEatenOffGround>
    <FractionFeedOnsiteContaminated>0.1</FractionFeedOnsiteContaminated>
    <Leafy>0.25</Leafy>
    <Exposed>0.25</Exposed>
    <Protected>0.25</Protected>
    <Root>0.25</Root>
  </Pig>
  <Chicken>
    <FractionEatenOffGround>0</FractionEatenOffGround>
    <FractionFeedOnsiteContaminated>0.05</FractionFeedOnsiteContaminated>
    <Leafy>0.25</Leafy>
    <Exposed>0.25</Exposed>
    <Protected>0.25</Protected>
    <Root>0.25</Root>
  </Chicken>
  <Egg>
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    <FractionFeedOnsiteContaminated>0</FractionFeedOnsiteContaminated>
    <Leafy>0.25</Leafy>
    <Exposed>0.25</Exposed>
    <Protected>0.25</Protected>
    <Root>0.25</Root>
  </Egg>
</Pathways>
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    <EF>350</EF>
    <Inhalation>
        <IROn>N</IROn><!--Y or N-->
        <Mean>225,658,535,452,210,185</Mean>
        <HighEnd>361,1090,861,745,335,290</HighEnd>
        <FAHOn>N</FAHOn><!--Y or N-->
        <FAH>0.85,0.85,0.72,0.72,0.73,0.73</FAH>
    </Inhalation>
    <Soil>
        <IROn>N</IROn><!--Y or N-->
        <Mean>0.7,20,5,3,0.7,0.6</Mean>
        <HighEnd>3,40,20,10,3,3</HighEnd>
        <TfOn>N</TfOn><!--Y or N-->
        <Tf>2550</Tf>
    </Soil>
    <Dermal>
        <TfOn>N</TfOn><!--Y or N-->
        <Mean>1100,2200,6600,5700,1100,1100</Mean>
        <HighEnd>2400,2900,8700,8100,2400,2400</HighEnd>
    </Dermal>
    <MothersMilk>
        <TfOn>N</TfOn><!--Y or N-->
        <Mean>101</Mean>
        <HighEnd>139</HighEnd>
    </MothersMilk>
    <Water>
        <TfOn>N</TfOn><!--Y or N-->
        <Mean>18,113,26,24,18,18</Mean>
        <HighEnd>47,196,66,61,47,45</HighEnd>
    </Water>
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```
    <Fish>
        <TfOn>N</TfOn><!--Y or N-->
        <Mean>0.38,0.18,0.36,0.36,0.38,0.36</Mean>
        <HighEnd>1.22,0.58,1.16,1.16,1.22,1.16</HighEnd>
    </Fish>
    <CropIROn>N</CropIROn><!--Y or N-->
    <BDIROn>N</BDIROn><!--Y or N-->
    <PCEIROn>N</PCEIROn><!--Y or N-->
    <Leafy>
        <Mean>0.9,3.8,2.5,0.9,0.9,1.1</Mean>
        <HighEnd>3.2,10.8,7.9,3.2,3.2,3.4</HighEnd>
    </Leafy>
    <Exposed>
        <Mean>1.9,11.7,7.4,1.9,1.9,1.8</Mean>
        <HighEnd>5.9,30.2,21.7,5.9,5.9,5.6</HighEnd>
    </Exposed>
    <Protected>
        <Mean>1.7,5.9,4.7,1.7,1.7,1.6</Mean>
        <HighEnd>5.8,17.5,13.3,5.8,5.8,5.2</HighEnd>
    </Protected>
    <Root>
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        <HighEnd>4.6,15.3,10.8,4.6,4.6,4.2</HighEnd>
    </Root>
    <Beef>
        <Mean>2,3.9,3.5,2,2,1.7</Mean>
        <HighEnd>4.8,11.3,8.6,4.8,4.8,4.4</HighEnd>
    </Beef>
    <Dairy>
        <Mean>5.4,50.9,23.3,5.4,5.4,4.3</Mean>
        <HighEnd>15.9,116,61.4,15.9,15.9,13.2</HighEnd>
    </Dairy>
    <Pig>
        <Mean>1.8,4.5,3.7,1.8,1.8,1.5</Mean>
        <HighEnd>4.7,11.4,9,4.7,4.7,3.8</HighEnd>
    </Pig>
    <Chicken>
        <Mean>0.9,2.9,2.2,0.9,0.9,0.9</Mean>
        <HighEnd>2.9,10.5,7.8,2.9,2.9,2.8</HighEnd>
    </Chicken>
    <Egg>
        <Mean>1.6,6.1,3.9,1.6,1.6,1.3</Mean>
        <HighEnd>4.2,15,9.4,4.2,4.2,3.4</HighEnd>
    </Egg>
    <WhatWasChanged>NA</WhatWasChanged>
</Tier2>
</HRA>
```

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<!--HARP RISK INPUT FILE-->
<!--Created 2015/10/07 18:09:13-->
<HRA>
  <HRAVERSION>15197</HRAVERSION>
  <Title>School_EQHO_100515</Title>
  <AERMODMode>Y</AERMODMode><!--Read AERMOD plot file (Y) or read CSV file (N)-->
  <GLCList>C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New
  folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\hra\School_EQHO_100515GLCList.csv</GLCList>
  <PollutantList>C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New
  folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\hra\School_EQHO_100515PolDB.csv</PollutantList>
  <PathwayRecConc>C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New
  folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\hra\School_EQHO_100515PathwayRec.csv</PathwayRecConc>
  <Output>C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New
  folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\hra</Output>
  <PollutantNum>9</PollutantNum>
  <RiskScenario>
    <ReceptorType>Resident</ReceptorType><!--Residential, Population, School, or Worker-->
    <UDEDOn>N</UDEDOn><!--Y or N-->
    <ExposureDuration>70</ExposureDuration><!--years-->
    <Scenario>All</Scenario><!--Cancer, NCChronic, NCChronic8HR, NCAcute, All-->
    <StartAge>-0.25</StartAge><!--years-->
    <WorkerExposureFrequency>250</WorkerExposureFrequency><!--days/year-->
    <WorkerNote>NA</WorkerNote>
    <Tier2On>N</Tier2On>
    <IntakeRatePercentile>Derived</IntakeRatePercentile><!--HighEnd, Mean, Derived-->
  </RiskScenario>
<Pathways>
  <Type>4</Type>
  <PathwaysEnabled><!--Y or N-->
    <Inhalation>Y</Inhalation>
    <Soil>Y</Soil>
    <Dermal>Y</Dermal>
    <MothersMilk>Y</MothersMilk>
    <Water>N</Water>
    <Fish>N</Fish>
    <HomegrownCrop>Y</HomegrownCrop>
    <Beef>N</Beef>
    <Dairy>N</Dairy>
    <Pig>N</Pig>
    <Chicken>N</Chicken>
    <Egg>N</Egg>
  </PathwaysEnabled>
  <Inhalation>
    <FAH3rdTrito16>N</FAH3rdTrito16><!--Y or N-->
    <FAH16to70>Y</FAH16to70><!--Y or N-->
    <DBRType>LongTerm24HR</DBRType><!--LongTerm24HR, RMP, SedentaryPassive8HR, Light8HR, or Moderate8HR-->
    <GLCAdjustmentFactor>1</GLCAdjustmentFactor>
    <UseAdj>N</UseAdj><!--Y or N-->
    <USEPOSTFILE8REL>N</USEPOSTFILE8REL><!--Y or N-->
    <USEPOSTFILECAN>N</USEPOSTFILECAN><!--Y or N-->
  </Inhalation>
  <Deposition>0.02</Deposition>
  <SoilMixingRate>0.01</SoilMixingRate>
  <DermalClimate>Mixed</DermalClimate><!--Cold, Mixed, or Warm-->
  <HumanWater>
    <SurfaceArea>0</SurfaceArea><!--m^2-->
    <WaterVolume>0</WaterVolume><!--kg-->
    <VolumeChangesPerYear>0</VolumeChangesPerYear>
    <FractionFromContamSource>0</FractionFromContamSource>
    <RecPhysicallyActiveLivesWorkHotClimates>N</RecPhysicallyActiveLivesWorkHotClimates><!--Y or N-->
  </HumanWater>
  <Homegrown>
    <HouseholdType>HouseholdsthatGarden</HouseholdType><!--HouseholdsthatGarden, HouseholdsthatFarm, or UserDefined-->
    <Leafy>0.137</Leafy>
    <Exposed>0.137</Exposed>
    <Protected>0.137</Protected>
    <Root>0.137</Root>
  </Homegrown>
  <Fish>
    <SurfaceArea>0</SurfaceArea><!--m^2-->
    <WaterVolume>0</WaterVolume><!--kg-->
    <VolumeChangesPerYear>0</VolumeChangesPerYear>
    <FractionFromContamSource>0</FractionFromContamSource>
  </Fish>
  <AnimalFractions>
    <HouseholdTypeBD>RaiseHunt</HouseholdTypeBD><!--RaiseHunt, Farm, or UserDefined-->
```

```
    <HouseholdTypePCE>RaiseHunt</HouseholdTypePCE><!--RaiseHunt, Farm, or UserDefined-->
    <Beef>0.485</Beef>
    <Pork>0.242</Pork>
    <Poultry>0.156</Poultry>
    <Eggs>0.146</Eggs>
    <Dairy>0.207</Dairy>
  </AnimalFractions>
  <BeefDairyWater>
    <SurfaceArea>0</SurfaceArea><!--m^2-->
    <WaterVolume>0</WaterVolume><!--kg-->
    <VolumeChangesPerYear>0</VolumeChangesPerYear>
    <FractionFromContamSourceBeef>0</FractionFromContamSourceBeef>
    <FractionFromContamSourceDairy>0</FractionFromContamSourceDairy>
  </BeefDairyWater>
  <BeefFractionFromGrazing>0.5</BeefFractionFromGrazing>
  <DairyFractionFromGrazing>0.5</DairyFractionFromGrazing>
  <PigChickenEggsWater>
    <SurfaceArea>0</SurfaceArea><!--m^2-->
    <WaterVolume>0</WaterVolume><!--kg-->
    <VolumeChangesPerYear>0</VolumeChangesPerYear>
    <FractionFromContamSourcePig>0</FractionFromContamSourcePig>
    <FractionFromContamSourceChicken>0</FractionFromContamSourceChicken>
    <FractionFromContamSourceEggs>0</FractionFromContamSourceEggs>
  </PigChickenEggsWater>
  <Pig>
    <FractionEatenOffGround>0</FractionEatenOffGround>
    <FractionFeedOnsiteContaminated>0.1</FractionFeedOnsiteContaminated>
    <Leafy>0.25</Leafy>
    <Exposed>0.25</Exposed>
    <Protected>0.25</Protected>
    <Root>0.25</Root>
  </Pig>
  <Chicken>
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    <FractionFeedOnsiteContaminated>0.05</FractionFeedOnsiteContaminated>
    <Leafy>0.25</Leafy>
    <Exposed>0.25</Exposed>
    <Protected>0.25</Protected>
    <Root>0.25</Root>
  </Chicken>
  <Egg>
    <FractionEatenOffGround>0.05</FractionEatenOffGround>
    <FractionFeedOnsiteContaminated>0</FractionFeedOnsiteContaminated>
    <Leafy>0.25</Leafy>
    <Exposed>0.25</Exposed>
    <Protected>0.25</Protected>
    <Root>0.25</Root>
  </Egg>
</Pathways>
<Tier2>
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    <EF>350</EF>
    <Inhalation>
        <IROn>N</IROn><!--Y or N-->
        <Mean>225,658,535,452,210,185</Mean>
        <HighEnd>361,1090,861,745,335,290</HighEnd>
        <FAHOn>N</FAHOn><!--Y or N-->
        <FAH>0.85,0.85,0.72,0.72,0.73,0.73</FAH>
    </Inhalation>
    <Soil>
        <IROn>N</IROn><!--Y or N-->
        <Mean>0.7,20,5,3,0.7,0.6</Mean>
        <HighEnd>3,40,20,10,3,3</HighEnd>
        <TfOn>N</TfOn><!--Y or N-->
        <Tf>25550</Tf>
    </Soil>
    <Dermal>
        <TfOn>N</TfOn><!--Y or N-->
        <Mean>1100,2200,6600,5700,1100,1100</Mean>
        <HighEnd>2400,2900,8700,8100,2400,2400</HighEnd>
    </Dermal>
    <MothersMilk>
        <TfOn>N</TfOn><!--Y or N-->
        <Mean>101</Mean>
        <HighEnd>139</HighEnd>
    </MothersMilk>
    <Water>
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```
        <TfOn>N</TfOn><!--Y or N-->
        <Mean>18,113,26,24,18,18</Mean>
        <HighEnd>47,196,66,61,47,45</HighEnd>
    </Water>
    <Fish>
        <TfOn>N</TfOn><!--Y or N-->
        <Mean>0.38,0.18,0.36,0.36,0.38,0.36</Mean>
        <HighEnd>1.22,0.58,1.16,1.16,1.22,1.16</HighEnd>
    </Fish>
    <CropIROn>N</CropIROn><!--Y or N-->
    <BDIROn>N</BDIROn><!--Y or N-->
    <PCEIROn>N</PCEIROn><!--Y or N-->
    <Leafy>
        <Mean>0.9,3.8,2.5,0.9,0.9,1.1</Mean>
        <HighEnd>3.2,10.8,7.9,3.2,3.2,3.4</HighEnd>
    </Leafy>
    <Exposed>
        <Mean>1.9,11.7,7.4,1.9,1.9,1.8</Mean>
        <HighEnd>5.9,30.2,21.7,5.9,5.9,5.6</HighEnd>
    </Exposed>
    <Protected>
        <Mean>1.7,5.9,4.7,1.7,1.7,1.6</Mean>
        <HighEnd>5.8,17.5,13.3,5.8,5.8,5.2</HighEnd>
    </Protected>
    <Root>
        <Mean>1.7,5.7,3.9,1.7,1.7,1.5</Mean>
        <HighEnd>4.6,15.3,10.8,4.6,4.6,4.2</HighEnd>
    </Root>
    <Beef>
        <Mean>2,3.9,3.5,2,2,1.7</Mean>
        <HighEnd>4.8,11.3,8.6,4.8,4.8,4.4</HighEnd>
    </Beef>
    <Dairy>
        <Mean>5.4,50.9,23.3,5.4,5.4,4.3</Mean>
        <HighEnd>15.9,116,61.4,15.9,15.9,13.2</HighEnd>
    </Dairy>
    <Pig>
        <Mean>1.8,4.5,3.7,1.8,1.8,1.5</Mean>
        <HighEnd>4.7,11.4,9,4.7,4.7,3.8</HighEnd>
    </Pig>
    <Chicken>
        <Mean>0.9,2.9,2.2,0.9,0.9,0.9</Mean>
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    </Chicken>
    <Egg>
        <Mean>1.6,6.1,3.9,1.6,1.6,1.3</Mean>
        <HighEnd>4.2,15,9.4,4.2,4.2,3.4</HighEnd>
    </Egg>
    <WhatWasChanged>NA</WhatWasChanged>
</Tier2>
</HRA>
```

```
HARP2 - HRACalc (dated 15197) 10/7/2015 6:09:14 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
**********
Start Age: -0.25
Total Exposure Duration: 70

**********
Exposure Duration Bin Distribution for Cancer
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 0
2<16 Years Bin: 14
16<30 Years Bin: 0
16 to 70 Years Bin: 54

**********
Pathways Enabled
Inhalation: True
Soil: True
Dermal: True
Mother's Milk: True
Water: False
Fish: False
Homegrown Crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\hra\School_EQHO_100515CancerRisk.csv
Cancer risk total by receptor saved to: C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\hra\School_EQHO_100515CancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\hra\School_EQHO_100515NCChronicRisk.csv
Chronic risk total by receptor saved to: C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\hra\School_EQHO_100515NCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to: C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\hra\School_EQHO_100515NCAcuteRisk.csv
Acute risk total by receptor saved to: C:\LNM\ECS\Kern_EIR\Risk\Cumulative\New folder\SCHOOL_CUMULATIVE_100415\School_100515\SCHOOL_100515\hra\School_EQHO_100515NCAcuteRiskSumByRec.csv
HRA ran successfully
```

School_EQHO_100515PolDB.csv

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
POL	POLABBRE	InhalationC	InhalationC	OralCancer	AcuteREL	InhalationC	OralChroni	IsMultipath	AcuteCV_	AcuteCNS_	AcuteIMM	AcuteKIDN	AcuteGILV_	AcuteREPR	AcuteRESP_	AcuteSKIN_	AcuteEYE_	AcuteBONE	AcuteENDC	AcuteBLOC	AcuteODOI
9901	DieselExhP	0.0003	1.1			5		FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
95636	1,2,4TriMeBenze							FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
71432	Benzene	2.90E-05	0.1		27	3		FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE
110827	Cyclohexane							FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
100414	Ethyl Benze	2.50E-06	0.0087			2000		FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
110543	Hexane					7000		FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
108883	Toluene				37000	300		FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE	TRUE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE
1330207	Xylenes				22000	700		FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE
7783064	H2S				42	10		FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE

School_EQHO_100515PolDB.csv

23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
AcuteGENE	Inhalation(	Inhalation(	Inhalation(	Inhalation(	Inhalation(	Inhalation(	Inhalation(	Inhalation(	Inhalation(	Inhalation(	Inhalation(	Inhalation(	Inhalation(	Inhalation(	OralChroni	OralChroni	OralChroni	OralChroni	OralChroni	OralChroni	OralChroni
FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
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School_EQHO_100515PolDB.csv

45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
OralChroni	OralChroni	OralChroni	OralChroni	OralChroni	OralChroni	OralChroni	PathwayInl	PathwayDr	PathwayFo	PathwayCr	PathwayEx	PathwayLe	PathwayPr	PathwayRc	PathwayDa	PathwayM	PathwaySo	PathwayFis	PathwayDe	PathwayM	SoilUptake
FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	
FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	
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FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	
FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	

School_EQHO_100515PolDB.csv

67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88
SoilUptake	SoilUptake	SoilUptake	FoodTcoMi	FoodTcoEg	FoodTcoCh	FoodTcoBe	FoodTcoPi	HalfLifeIn	GRAF	FishBCF	MolWtCorr	DermalAbs	InhalationC	InhalationC	InhalationC	InhalationC	InhalationC	InhalationC	InhalationC	InhalationC	InhalationC
											1			FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
											1			FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
											1		3	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
											1			FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
											1			FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
											1			FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
											1			FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
											1			FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
											1			FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE

School_EQHO_100515PolDB.csv

89	90	91	92	93	94	95	96	97
InhalationC	InhalationC	InhalationC	InhalationC	InhalationC	InhalationC	Tco_InhMN	Tco_OralM	RChem_Group_HV
FALSE	FALSE	FALSE	FALSE	FALSE	FALSE			
FALSE	FALSE	FALSE	FALSE	FALSE	FALSE			
FALSE	FALSE	FALSE	TRUE	FALSE	FALSE			
FALSE	FALSE	FALSE	FALSE	FALSE	FALSE			
FALSE	FALSE	FALSE	FALSE	FALSE	FALSE			
FALSE	FALSE	FALSE	FALSE	FALSE	FALSE			
FALSE	FALSE	FALSE	FALSE	FALSE	FALSE			
FALSE	FALSE	FALSE	FALSE	FALSE	FALSE			Xylenes
FALSE	FALSE	FALSE	FALSE	FALSE	FALSE			

School_EQHO_100515PathwayRec.csv

1	2	3	4	5
POL	POLABBRE\	WATER	FISH	PASTURE
9901	DieselExhP	0	0	0
95636	1,2,4TriMe	0	0	0
71432	Benzene	0	0	0
110827	Cyclohexar	0	0	0
100414	Ethyl Benze	0	0	0
110543	Hexane	0	0	0
108883	Toluene	0	0	0
1330207	Xylenes	0	0	0
7783064	H2S	0	0	0

School_EQHO_100515NCChronicRiskSumByRec.csv

*HARP - HRACalc v15197 10/7/2015 6:09:14 PM - Chronic Risk

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD	ODOR	GENERAL	MAXHI
1	CARTGRID	R20	294330	3932550	NonCancer	0.00E+00	2.87E-07	0.00E+00	7.91E-09	7.91E-09	1.98E-07	1.89E-03	0.00E+00	4.29E-08	0.00E+00	7.91E-09	1.70E-05	0.00E+00	0.00E+00	1.89E-03
2	CARTGRID	R20	294350	3932550	NonCancer	0.00E+00	2.82E-07	0.00E+00	7.75E-09	7.75E-09	1.95E-07	1.89E-03	0.00E+00	4.22E-08	0.00E+00	7.75E-09	1.67E-05	0.00E+00	0.00E+00	1.89E-03
3	CARTGRID	R20	294370	3932550	NonCancer	0.00E+00	2.78E-07	0.00E+00	7.63E-09	7.63E-09	1.92E-07	1.89E-03	0.00E+00	4.17E-08	0.00E+00	7.63E-09	1.65E-05	0.00E+00	0.00E+00	1.89E-03
4	CARTGRID	R20	294330	3932570	NonCancer	0.00E+00	2.87E-07	0.00E+00	7.91E-09	7.91E-09	1.98E-07	1.88E-03	0.00E+00	4.29E-08	0.00E+00	7.91E-09	1.70E-05	0.00E+00	0.00E+00	1.88E-03
5	CARTGRID	R20	294350	3932570	NonCancer	0.00E+00	2.83E-07	0.00E+00	7.77E-09	7.77E-09	1.95E-07	1.87E-03	0.00E+00	4.23E-08	0.00E+00	7.77E-09	1.67E-05	0.00E+00	0.00E+00	1.87E-03
6	CARTGRID	R20	294370	3932570	NonCancer	0.00E+00	2.80E-07	0.00E+00	7.67E-09	7.67E-09	1.93E-07	1.88E-03	0.00E+00	4.19E-08	0.00E+00	7.67E-09	1.66E-05	0.00E+00	0.00E+00	1.88E-03
7	CARTGRID	R20	294330	3932590	NonCancer	0.00E+00	2.88E-07	0.00E+00	7.92E-09	7.92E-09	1.99E-07	1.85E-03	0.00E+00	4.31E-08	0.00E+00	7.92E-09	1.70E-05	0.00E+00	0.00E+00	1.85E-03
8	CARTGRID	R20	294350	3932590	NonCancer	0.00E+00	2.84E-07	0.00E+00	7.82E-09	7.82E-09	1.97E-07	1.85E-03	0.00E+00	4.26E-08	0.00E+00	7.82E-09	1.68E-05	0.00E+00	0.00E+00	1.85E-03
9	CARTGRID	R20	294370	3932590	NonCancer	0.00E+00	2.82E-07	0.00E+00	7.73E-09	7.73E-09	1.95E-07	1.86E-03	0.00E+00	4.22E-08	0.00E+00	7.73E-09	1.67E-05	0.00E+00	0.00E+00	1.86E-03

School_EQHO_100515NCChronicRisk.csv

*HARP - HRACalc v15197 10/7/2015 6:09:14 PM - Chronic Risk

REC	GRP	NETID	X	Y	CONC	POLID	POLABBRE\	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEE1	ENDO	BLOOD	ODOR
1	CARTGRID	R20	294330	3932550	0.009463	9901	DieselExhP	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	CARTGRID	R20	294350	3932550	0.009439	9901	DieselExhP	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	CARTGRID	R20	294370	3932550	0.009438	9901	DieselExhP	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	CARTGRID	R20	294330	3932570	0.009374	9901	DieselExhP	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	CARTGRID	R20	294350	3932570	0.009364	9901	DieselExhP	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	CARTGRID	R20	294370	3932570	0.009376	9901	DieselExhP	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	CARTGRID	R20	294330	3932590	0.009259	9901	DieselExhP	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	CARTGRID	R20	294350	3932590	0.00927	9901	DieselExhP	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	CARTGRID	R20	294370	3932590	0.009302	9901	DieselExhP	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1	CARTGRID	R20	294330	3932550	1.56E-06	95636	1,2,4TriMe	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	CARTGRID	R20	294350	3932550	1.54E-06	95636	1,2,4TriMe	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	CARTGRID	R20	294370	3932550	1.53E-06	95636	1,2,4TriMe	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	CARTGRID	R20	294330	3932570	1.57E-06	95636	1,2,4TriMe	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	CARTGRID	R20	294350	3932570	1.56E-06	95636	1,2,4TriMe	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	CARTGRID	R20	294370	3932570	1.55E-06	95636	1,2,4TriMe	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	CARTGRID	R20	294330	3932590	1.58E-06	95636	1,2,4TriMe	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	CARTGRID	R20	294350	3932590	1.58E-06	95636	1,2,4TriMe	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	CARTGRID	R20	294370	3932590	1.57E-06	95636	1,2,4TriMe	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1	CARTGRID	R20	294330	3932550	5.09E-05	71432	Benzene	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00
2	CARTGRID	R20	294350	3932550	5.00E-05	71432	Benzene	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00
3	CARTGRID	R20	294370	3932550	4.94E-05	71432	Benzene	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	0.00E+00
4	CARTGRID	R20	294330	3932570	5.09E-05	71432	Benzene	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00
5	CARTGRID	R20	294350	3932570	5.02E-05	71432	Benzene	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00
6	CARTGRID	R20	294370	3932570	4.97E-05	71432	Benzene	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	0.00E+00
7	CARTGRID	R20	294330	3932590	5.11E-05	71432	Benzene	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00
8	CARTGRID	R20	294350	3932590	5.05E-05	71432	Benzene	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05	0.00E+00
9	CARTGRID	R20	294370	3932590	5.01E-05	71432	Benzene	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00
1	CARTGRID	R20	294330	3932550	2.48E-06	110827	Cyclohexar	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	CARTGRID	R20	294350	3932550	2.44E-06	110827	Cyclohexar	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	CARTGRID	R20	294370	3932550	2.41E-06	110827	Cyclohexar	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	CARTGRID	R20	294330	3932570	2.48E-06	110827	Cyclohexar	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	CARTGRID	R20	294350	3932570	2.45E-06	110827	Cyclohexar	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	CARTGRID	R20	294370	3932570	2.42E-06	110827	Cyclohexar	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	CARTGRID	R20	294330	3932590	2.49E-06	110827	Cyclohexar	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	CARTGRID	R20	294350	3932590	2.46E-06	110827	Cyclohexar	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	CARTGRID	R20	294370	3932590	2.44E-06	110827	Cyclohexar	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1	CARTGRID	R20	294330	3932550	1.58E-05	100414	Ethyl Benz	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.91E-09	7.91E-09	7.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.91E-09	0.00E+00	0.00E+00
2	CARTGRID	R20	294350	3932550	1.55E-05	100414	Ethyl Benz	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.75E-09	7.75E-09	7.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-09	0.00E+00	0.00E+00
3	CARTGRID	R20	294370	3932550	1.53E-05	100414	Ethyl Benz	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.63E-09	7.63E-09	7.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-09	0.00E+00	0.00E+00
4	CARTGRID	R20	294330	3932570	1.58E-05	100414	Ethyl Benz	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.91E-09	7.91E-09	7.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.91E-09	0.00E+00	0.00E+00
5	CARTGRID	R20	294350	3932570	1.55E-05	100414	Ethyl Benz	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.77E-09	7.77E-09	7.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-09	0.00E+00	0.00E+00
6	CARTGRID	R20	294370	3932570	1.53E-05	100414	Ethyl Benz	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.67E-09	7.67E-09	7.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-09	0.00E+00	0.00E+00
7	CARTGRID	R20	294330	3932590	1.58E-05	100414	Ethyl Benz	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.92E-09	7.92E-09	7.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-09	0.00E+00	0.00E+00
8	CARTGRID	R20	294350	3932590	1.56E-05	100414	Ethyl Benz	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.82E-09	7.82E-09	7.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-09	0.00E+00	0.00E+00
9	CARTGRID	R20	294370	3932590	1.55E-05	100414	Ethyl Benz	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.73E-09	7.73E-09	7.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-09	0.00E+00	0.00E+00

1	CARTGRID	R20	294330	3932550	0.000375	110543	Hexane	NonCancer	0.00E+00	5.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	CARTGRID	R20	294350	3932550	0.000368	110543	Hexane	NonCancer	0.00E+00	5.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	CARTGRID	R20	294370	3932550	0.000364	110543	Hexane	NonCancer	0.00E+00	5.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	CARTGRID	R20	294330	3932570	0.000375	110543	Hexane	NonCancer	0.00E+00	5.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	CARTGRID	R20	294350	3932570	0.00037	110543	Hexane	NonCancer	0.00E+00	5.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	CARTGRID	R20	294370	3932570	0.000366	110543	Hexane	NonCancer	0.00E+00	5.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	CARTGRID	R20	294330	3932590	0.000376	110543	Hexane	NonCancer	0.00E+00	5.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	CARTGRID	R20	294350	3932590	0.000372	110543	Hexane	NonCancer	0.00E+00	5.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	CARTGRID	R20	294370	3932590	0.000369	110543	Hexane	NonCancer	0.00E+00	5.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1	CARTGRID	R20	294330	3932550	5.71E-05	108883	Toluene	NonCancer	0.00E+00	1.90E-07	0.00E+00	0.00E+00	0.00E+00	1.90E-07	1.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	CARTGRID	R20	294350	3932550	5.61E-05	108883	Toluene	NonCancer	0.00E+00	1.87E-07	0.00E+00	0.00E+00	0.00E+00	1.87E-07	1.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	CARTGRID	R20	294370	3932550	5.54E-05	108883	Toluene	NonCancer	0.00E+00	1.85E-07	0.00E+00	0.00E+00	0.00E+00	1.85E-07	1.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	CARTGRID	R20	294330	3932570	5.71E-05	108883	Toluene	NonCancer	0.00E+00	1.90E-07	0.00E+00	0.00E+00	0.00E+00	1.90E-07	1.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	CARTGRID	R20	294350	3932570	5.63E-05	108883	Toluene	NonCancer	0.00E+00	1.88E-07	0.00E+00	0.00E+00	0.00E+00	1.88E-07	1.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	CARTGRID	R20	294370	3932570	5.57E-05	108883	Toluene	NonCancer	0.00E+00	1.86E-07	0.00E+00	0.00E+00	0.00E+00	1.86E-07	1.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	CARTGRID	R20	294330	3932590	5.73E-05	108883	Toluene	NonCancer	0.00E+00	1.91E-07	0.00E+00	0.00E+00	0.00E+00	1.91E-07	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	CARTGRID	R20	294350	3932590	5.66E-05	108883	Toluene	NonCancer	0.00E+00	1.89E-07	0.00E+00	0.00E+00	0.00E+00	1.89E-07	1.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	CARTGRID	R20	294370	3932590	5.61E-05	108883	Toluene	NonCancer	0.00E+00	1.87E-07	0.00E+00	0.00E+00	0.00E+00	1.87E-07	1.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1	CARTGRID	R20	294330	3932550	3.01E-05	1330207	Xylenes	NonCancer	0.00E+00	4.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-08	0.00E+00	4.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	CARTGRID	R20	294350	3932550	2.95E-05	1330207	Xylenes	NonCancer	0.00E+00	4.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-08	0.00E+00	4.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	CARTGRID	R20	294370	3932550	2.92E-05	1330207	Xylenes	NonCancer	0.00E+00	4.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-08	0.00E+00	4.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	CARTGRID	R20	294330	3932570	3.01E-05	1330207	Xylenes	NonCancer	0.00E+00	4.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-08	0.00E+00	4.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	CARTGRID	R20	294350	3932570	2.96E-05	1330207	Xylenes	NonCancer	0.00E+00	4.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-08	0.00E+00	4.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	CARTGRID	R20	294370	3932570	2.93E-05	1330207	Xylenes	NonCancer	0.00E+00	4.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-08	0.00E+00	4.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	CARTGRID	R20	294330	3932590	3.02E-05	1330207	Xylenes	NonCancer	0.00E+00	4.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-08	0.00E+00	4.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	CARTGRID	R20	294350	3932590	2.98E-05	1330207	Xylenes	NonCancer	0.00E+00	4.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-08	0.00E+00	4.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	CARTGRID	R20	294370	3932590	2.96E-05	1330207	Xylenes	NonCancer	0.00E+00	4.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-08	0.00E+00	4.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1	CARTGRID	R20	294330	3932550	3.67E-06	7783064	H2S	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	CARTGRID	R20	294350	3932550	3.60E-06	7783064	H2S	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	CARTGRID	R20	294370	3932550	3.56E-06	7783064	H2S	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	CARTGRID	R20	294330	3932570	3.67E-06	7783064	H2S	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	CARTGRID	R20	294350	3932570	3.61E-06	7783064	H2S	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	CARTGRID	R20	294370	3932570	3.58E-06	7783064	H2S	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	CARTGRID	R20	294330	3932590	3.68E-06	7783064	H2S	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	CARTGRID	R20	294350	3932590	3.64E-06	7783064	H2S	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	CARTGRID	R20	294370	3932590	3.61E-06	7783064	H2S	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

School_EQHO_100515NCChronicRisk.csv

GENERAL	DETAILS	INH_CONC	SOIL_DOSE	DERMAL_D	MMILK_DC	WATER_DC	FISH_DOSE	CROP_DOS	BEEF_DOSE	DAIRY_DOS	PIG_DOSE	CHICKEN_D	EGG_DOSE	1ST_DRIVE	2ND_DRIVE	3RD_DRIVER
0.00E+00	*	9.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	9.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	9.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	9.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	9.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	9.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	9.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	9.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	9.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	1.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	1.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	1.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	1.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	5.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	5.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	4.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	5.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	5.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	4.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	5.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	5.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	5.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	2.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	2.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	2.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	2.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	2.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	2.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	2.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	2.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	2.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		
0.00E+00	*	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		

0.00E+00	*	3.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION
0.00E+00	*	3.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION
0.00E+00	*	3.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION
0.00E+00	*	3.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION
0.00E+00	*	3.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION
0.00E+00	*	3.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION
0.00E+00	*	3.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION
0.00E+00	*	3.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION
0.00E+00	*	3.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION
0.00E+00	*	5.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION
0.00E+00	*	5.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION
0.00E+00	*	5.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION
0.00E+00	*	5.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION
0.00E+00	*	5.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION
0.00E+00	*	5.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION
0.00E+00	*	5.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION
0.00E+00	*	5.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION
0.00E+00	*	5.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION
0.00E+00	*	3.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION
0.00E+00	*	2.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION
0.00E+00	*	2.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION
0.00E+00	*	3.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION
0.00E+00	*	2.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION
0.00E+00	*	2.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION
0.00E+00	*	3.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION
0.00E+00	*	2.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION
0.00E+00	*	2.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION
0.00E+00	*	3.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION
0.00E+00	*	3.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION
0.00E+00	*	3.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION
0.00E+00	*	3.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION
0.00E+00	*	3.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION
0.00E+00	*	3.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION
0.00E+00	*	3.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION
0.00E+00	*	3.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION
0.00E+00	*	3.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION

School_EQHO_100515NCAcuteRiskSumByRec.csv

*HARP - HRACalc v15197 10/7/2015 6:09:14 PM - Acute Risk

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD	ODOR	GENERAL	MAXHI
1	CARTGRID	R20	294330	3932550	NonCancer	0.00E+00	1.39E-05	2.90E-04	0.00E+00	0.00E+00	2.90E-04	4.49E-07	0.00E+00	4.49E-07	0.00E+00	0.00E+00	2.90E-04	0.00E+00	0.00E+00	2.90E-04
2	CARTGRID	R20	294350	3932550	NonCancer	0.00E+00	1.34E-05	2.78E-04	0.00E+00	0.00E+00	2.78E-04	4.31E-07	0.00E+00	4.31E-07	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	2.78E-04
3	CARTGRID	R20	294370	3932550	NonCancer	0.00E+00	1.36E-05	2.83E-04	0.00E+00	0.00E+00	2.83E-04	4.38E-07	0.00E+00	4.38E-07	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	2.83E-04
4	CARTGRID	R20	294330	3932570	NonCancer	0.00E+00	1.33E-05	2.77E-04	0.00E+00	0.00E+00	2.78E-04	4.30E-07	0.00E+00	4.30E-07	0.00E+00	0.00E+00	2.77E-04	0.00E+00	0.00E+00	2.78E-04
5	CARTGRID	R20	294350	3932570	NonCancer	0.00E+00	1.29E-05	2.69E-04	0.00E+00	0.00E+00	2.69E-04	4.17E-07	0.00E+00	4.17E-07	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	2.69E-04
6	CARTGRID	R20	294370	3932570	NonCancer	0.00E+00	1.30E-05	2.71E-04	0.00E+00	0.00E+00	2.71E-04	4.20E-07	0.00E+00	4.20E-07	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	2.71E-04
7	CARTGRID	R20	294330	3932590	NonCancer	0.00E+00	1.34E-05	2.79E-04	0.00E+00	0.00E+00	2.79E-04	4.32E-07	0.00E+00	4.32E-07	0.00E+00	0.00E+00	2.79E-04	0.00E+00	0.00E+00	2.79E-04
8	CARTGRID	R20	294350	3932590	NonCancer	0.00E+00	1.30E-05	2.70E-04	0.00E+00	0.00E+00	2.70E-04	4.18E-07	0.00E+00	4.18E-07	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	2.70E-04
9	CARTGRID	R20	294370	3932590	NonCancer	0.00E+00	1.29E-05	2.69E-04	0.00E+00	0.00E+00	2.69E-04	4.16E-07	0.00E+00	4.16E-07	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	2.69E-04

School_EQHO_100515NCAcuteRisk.csv

*HARP - HRACalc v15197 10/7/2015 6:09:14 PM - Acute Risk

REC	GRP	NETID	X	Y	CONC	POLID	POLABBRE	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR
1	CARTGRID	R20	294330	3932550	462.5041	9901	DieselExhP	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	CARTGRID	R20	294350	3932550	458.3572	9901	DieselExhP	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	CARTGRID	R20	294370	3932550	452.3317	9901	DieselExhP	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	CARTGRID	R20	294330	3932570	458.1454	9901	DieselExhP	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	CARTGRID	R20	294350	3932570	457.5437	9901	DieselExhP	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	CARTGRID	R20	294370	3932570	452.6967	9901	DieselExhP	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	CARTGRID	R20	294330	3932590	453.4757	9901	DieselExhP	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	CARTGRID	R20	294350	3932590	455.2942	9901	DieselExhP	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	CARTGRID	R20	294370	3932590	453.2391	9901	DieselExhP	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1	CARTGRID	R20	294330	3932550	0.001367	95636	1,2,4TriMe	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	CARTGRID	R20	294350	3932550	0.001278	95636	1,2,4TriMe	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	CARTGRID	R20	294370	3932550	0.001334	95636	1,2,4TriMe	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	CARTGRID	R20	294330	3932570	0.001271	95636	1,2,4TriMe	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	CARTGRID	R20	294350	3932570	0.00123	95636	1,2,4TriMe	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	CARTGRID	R20	294370	3932570	0.001256	95636	1,2,4TriMe	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	CARTGRID	R20	294330	3932590	0.001302	95636	1,2,4TriMe	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	CARTGRID	R20	294350	3932590	0.001249	95636	1,2,4TriMe	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	CARTGRID	R20	294370	3932590	0.00126	95636	1,2,4TriMe	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1	CARTGRID	R20	294330	3932550	0.007821	71432	Benzene	NonCancer	0.00E+00	0.00E+00	2.90E-04	0.00E+00	0.00E+00	2.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04	0.00E+00
2	CARTGRID	R20	294350	3932550	0.007506	71432	Benzene	NonCancer	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00
3	CARTGRID	R20	294370	3932550	0.007628	71432	Benzene	NonCancer	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04	0.00E+00
4	CARTGRID	R20	294330	3932570	0.00749	71432	Benzene	NonCancer	0.00E+00	0.00E+00	2.77E-04	0.00E+00	0.00E+00	2.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04	0.00E+00
5	CARTGRID	R20	294350	3932570	0.007265	71432	Benzene	NonCancer	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00
6	CARTGRID	R20	294370	3932570	0.00731	71432	Benzene	NonCancer	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00
7	CARTGRID	R20	294330	3932590	0.007524	71432	Benzene	NonCancer	0.00E+00	0.00E+00	2.79E-04	0.00E+00	0.00E+00	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-04	0.00E+00
8	CARTGRID	R20	294350	3932590	0.007277	71432	Benzene	NonCancer	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04	0.00E+00
9	CARTGRID	R20	294370	3932590	0.00725	71432	Benzene	NonCancer	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00
1	CARTGRID	R20	294330	3932550	0.000383	110827	Cyclohexar	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	CARTGRID	R20	294350	3932550	0.000367	110827	Cyclohexar	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	CARTGRID	R20	294370	3932550	0.000373	110827	Cyclohexar	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	CARTGRID	R20	294330	3932570	0.000367	110827	Cyclohexar	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	CARTGRID	R20	294350	3932570	0.000356	110827	Cyclohexar	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	CARTGRID	R20	294370	3932570	0.000358	110827	Cyclohexar	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	CARTGRID	R20	294330	3932590	0.000368	110827	Cyclohexar	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	CARTGRID	R20	294350	3932590	0.000356	110827	Cyclohexar	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	CARTGRID	R20	294370	3932590	0.000355	110827	Cyclohexar	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1	CARTGRID	R20	294330	3932550	0.00241	100414	Ethyl Benz	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	CARTGRID	R20	294350	3932550	0.002304	100414	Ethyl Benz	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	CARTGRID	R20	294370	3932550	0.002334	100414	Ethyl Benz	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	CARTGRID	R20	294330	3932570	0.002297	100414	Ethyl Benz	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	CARTGRID	R20	294350	3932570	0.002217	100414	Ethyl Benz	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	CARTGRID	R20	294370	3932570	0.002222	100414	Ethyl Benz	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	CARTGRID	R20	294330	3932590	0.002298	100414	Ethyl Benz	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	CARTGRID	R20	294350	3932590	0.002214	100414	Ethyl Benz	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	CARTGRID	R20	294370	3932590	0.002198	100414	Ethyl Benz	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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1	CARTGRID	R20	294330	3932550	0.057686	110543	Hexane	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	CARTGRID	R20	294350	3932550	0.055364	110543	Hexane	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	CARTGRID	R20	294370	3932550	0.056266	110543	Hexane	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	CARTGRID	R20	294330	3932570	0.055247	110543	Hexane	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	CARTGRID	R20	294350	3932570	0.053585	110543	Hexane	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	CARTGRID	R20	294370	3932570	0.053919	110543	Hexane	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	CARTGRID	R20	294330	3932590	0.055497	110543	Hexane	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	CARTGRID	R20	294350	3932590	0.053673	110543	Hexane	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	CARTGRID	R20	294370	3932590	0.053474	110543	Hexane	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1	CARTGRID	R20	294330	3932550	0.008819	108883	Toluene	NonCancer	0.00E+00	2.38E-07	0.00E+00	0.00E+00	0.00E+00	2.38E-07	2.38E-07	0.00E+00	2.38E-07	0.00E+00	0.00E+00	0.00E+00
2	CARTGRID	R20	294350	3932550	0.008464	108883	Toluene	NonCancer	0.00E+00	2.29E-07	0.00E+00	0.00E+00	0.00E+00	2.29E-07	2.29E-07	0.00E+00	2.29E-07	0.00E+00	0.00E+00	0.00E+00
3	CARTGRID	R20	294370	3932550	0.008602	108883	Toluene	NonCancer	0.00E+00	2.32E-07	0.00E+00	0.00E+00	0.00E+00	2.32E-07	2.32E-07	0.00E+00	2.32E-07	0.00E+00	0.00E+00	0.00E+00
4	CARTGRID	R20	294330	3932570	0.008446	108883	Toluene	NonCancer	0.00E+00	2.28E-07	0.00E+00	0.00E+00	0.00E+00	2.28E-07	2.28E-07	0.00E+00	2.28E-07	0.00E+00	0.00E+00	0.00E+00
5	CARTGRID	R20	294350	3932570	0.008192	108883	Toluene	NonCancer	0.00E+00	2.21E-07	0.00E+00	0.00E+00	0.00E+00	2.21E-07	2.21E-07	0.00E+00	2.21E-07	0.00E+00	0.00E+00	0.00E+00
6	CARTGRID	R20	294370	3932570	0.008243	108883	Toluene	NonCancer	0.00E+00	2.23E-07	0.00E+00	0.00E+00	0.00E+00	2.23E-07	2.23E-07	0.00E+00	2.23E-07	0.00E+00	0.00E+00	0.00E+00
7	CARTGRID	R20	294330	3932590	0.008485	108883	Toluene	NonCancer	0.00E+00	2.29E-07	0.00E+00	0.00E+00	0.00E+00	2.29E-07	2.29E-07	0.00E+00	2.29E-07	0.00E+00	0.00E+00	0.00E+00
8	CARTGRID	R20	294350	3932590	0.008206	108883	Toluene	NonCancer	0.00E+00	2.22E-07	0.00E+00	0.00E+00	0.00E+00	2.22E-07	2.22E-07	0.00E+00	2.22E-07	0.00E+00	0.00E+00	0.00E+00
9	CARTGRID	R20	294370	3932590	0.008175	108883	Toluene	NonCancer	0.00E+00	2.21E-07	0.00E+00	0.00E+00	0.00E+00	2.21E-07	2.21E-07	0.00E+00	2.21E-07	0.00E+00	0.00E+00	0.00E+00
1	CARTGRID	R20	294330	3932550	0.004637	1330207	Xylenes	NonCancer	0.00E+00	2.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-07	0.00E+00	2.11E-07	0.00E+00	0.00E+00	0.00E+00
2	CARTGRID	R20	294350	3932550	0.00445	1330207	Xylenes	NonCancer	0.00E+00	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-07	0.00E+00	2.02E-07	0.00E+00	0.00E+00	0.00E+00
3	CARTGRID	R20	294370	3932550	0.004523	1330207	Xylenes	NonCancer	0.00E+00	2.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-07	0.00E+00	2.06E-07	0.00E+00	0.00E+00	0.00E+00
4	CARTGRID	R20	294330	3932570	0.004441	1330207	Xylenes	NonCancer	0.00E+00	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-07	0.00E+00	2.02E-07	0.00E+00	0.00E+00	0.00E+00
5	CARTGRID	R20	294350	3932570	0.004307	1330207	Xylenes	NonCancer	0.00E+00	1.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-07	0.00E+00	1.96E-07	0.00E+00	0.00E+00	0.00E+00
6	CARTGRID	R20	294370	3932570	0.004334	1330207	Xylenes	NonCancer	0.00E+00	1.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-07	0.00E+00	1.97E-07	0.00E+00	0.00E+00	0.00E+00
7	CARTGRID	R20	294330	3932590	0.004461	1330207	Xylenes	NonCancer	0.00E+00	2.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-07	0.00E+00	2.03E-07	0.00E+00	0.00E+00	0.00E+00
8	CARTGRID	R20	294350	3932590	0.004314	1330207	Xylenes	NonCancer	0.00E+00	1.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-07	0.00E+00	1.96E-07	0.00E+00	0.00E+00	0.00E+00
9	CARTGRID	R20	294370	3932590	0.004298	1330207	Xylenes	NonCancer	0.00E+00	1.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-07	0.00E+00	1.95E-07	0.00E+00	0.00E+00	0.00E+00
1	CARTGRID	R20	294330	3932550	0.000566	7783064	H2S	NonCancer	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	CARTGRID	R20	294350	3932550	0.000543	7783064	H2S	NonCancer	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	CARTGRID	R20	294370	3932550	0.000552	7783064	H2S	NonCancer	0.00E+00	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	CARTGRID	R20	294330	3932570	0.000542	7783064	H2S	NonCancer	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	CARTGRID	R20	294350	3932570	0.000526	7783064	H2S	NonCancer	0.00E+00	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	CARTGRID	R20	294370	3932570	0.000529	7783064	H2S	NonCancer	0.00E+00	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	CARTGRID	R20	294330	3932590	0.000544	7783064	H2S	NonCancer	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	CARTGRID	R20	294350	3932590	0.000526	7783064	H2S	NonCancer	0.00E+00	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	CARTGRID	R20	294370	3932590	0.000524	7783064	H2S	NonCancer	0.00E+00	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

School_EQHO_100515NCAcuteRisk.csv

GENERAL
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School_EQHO_100515NCAcuteRisk.csv

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School_EQHO_100515GLCList.csv

C:\LNM\EC C:\LNM\ECS\Kern_EIR'	9901
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C:\LNM\EC C:\LNM\ECS\Kern_EIR'	71432
C:\LNM\EC C:\LNM\ECS\Kern_EIR'	110827
C:\LNM\EC C:\LNM\ECS\Kern_EIR'	100414
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C:\LNM\EC C:\LNM\ECS\Kern_EIR'	1330207
C:\LNM\EC C:\LNM\ECS\Kern_EIR'	7783064

School_EQHO_100515CancerRiskSumByRec.csv

*HARP - HRACalc v15197 10/7/2015 6:09:14 PM - Cancer Risk

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RIS	WATER_RIS	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISI	PIG_RISK	CHICKEN_F	EGG_RISK
1	CARTGRID	R20	294330	3932550	9.33E-06	70YrCancer	9.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	CARTGRID	R20	294350	3932550	9.31E-06	70YrCancer	9.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	CARTGRID	R20	294370	3932550	9.31E-06	70YrCancer	9.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	CARTGRID	R20	294330	3932570	9.25E-06	70YrCancer	9.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	CARTGRID	R20	294350	3932570	9.24E-06	70YrCancer	9.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	CARTGRID	R20	294370	3932570	9.25E-06	70YrCancer	9.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	CARTGRID	R20	294330	3932590	9.13E-06	70YrCancer	9.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	CARTGRID	R20	294350	3932590	9.14E-06	70YrCancer	9.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	CARTGRID	R20	294370	3932590	9.18E-06	70YrCancer	9.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

School_EQHO_100515CancerRisk.csv

*HARP - HRACalc v15197 10/7/2015 6:09:14 PM - Cancer Risk

REC	GRP	NETID	X	Y	CONC	POLID	POLABBRE	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RIS	WATER_RIS	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISI	PIG_RISK	CHICKEN_F
1	CARTGRID	R20	294330	3932550	0.009463	9901	DieselExhP	9.33E-06	70YrCancei	*	9.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	CARTGRID	R20	294350	3932550	0.009439	9901	DieselExhP	9.31E-06	70YrCancei	*	9.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	CARTGRID	R20	294370	3932550	0.009438	9901	DieselExhP	9.30E-06	70YrCancei	*	9.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	CARTGRID	R20	294330	3932570	0.009374	9901	DieselExhP	9.24E-06	70YrCancei	*	9.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	CARTGRID	R20	294350	3932570	0.009364	9901	DieselExhP	9.23E-06	70YrCancei	*	9.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	CARTGRID	R20	294370	3932570	0.009376	9901	DieselExhP	9.24E-06	70YrCancei	*	9.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	CARTGRID	R20	294330	3932590	0.009259	9901	DieselExhP	9.13E-06	70YrCancei	*	9.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	CARTGRID	R20	294350	3932590	0.00927	9901	DieselExhP	9.14E-06	70YrCancei	*	9.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	CARTGRID	R20	294370	3932590	0.009302	9901	DieselExhP	9.17E-06	70YrCancei	*	9.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1	CARTGRID	R20	294330	3932550	1.56E-06	95636	1,2,4TriMe	0.00E+00	70YrCancei	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	CARTGRID	R20	294350	3932550	1.54E-06	95636	1,2,4TriMe	0.00E+00	70YrCancei	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	CARTGRID	R20	294370	3932550	1.53E-06	95636	1,2,4TriMe	0.00E+00	70YrCancei	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	CARTGRID	R20	294330	3932570	1.57E-06	95636	1,2,4TriMe	0.00E+00	70YrCancei	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	CARTGRID	R20	294350	3932570	1.56E-06	95636	1,2,4TriMe	0.00E+00	70YrCancei	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	CARTGRID	R20	294370	3932570	1.55E-06	95636	1,2,4TriMe	0.00E+00	70YrCancei	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	CARTGRID	R20	294330	3932590	1.58E-06	95636	1,2,4TriMe	0.00E+00	70YrCancei	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	CARTGRID	R20	294350	3932590	1.58E-06	95636	1,2,4TriMe	0.00E+00	70YrCancei	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	CARTGRID	R20	294370	3932590	1.57E-06	95636	1,2,4TriMe	0.00E+00	70YrCancei	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1	CARTGRID	R20	294330	3932550	5.09E-05	71432	Benzene	4.56E-09	70YrCancei	*	4.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	CARTGRID	R20	294350	3932550	5.00E-05	71432	Benzene	4.48E-09	70YrCancei	*	4.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	CARTGRID	R20	294370	3932550	4.94E-05	71432	Benzene	4.43E-09	70YrCancei	*	4.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	CARTGRID	R20	294330	3932570	5.09E-05	71432	Benzene	4.56E-09	70YrCancei	*	4.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	CARTGRID	R20	294350	3932570	5.02E-05	71432	Benzene	4.50E-09	70YrCancei	*	4.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	CARTGRID	R20	294370	3932570	4.97E-05	71432	Benzene	4.45E-09	70YrCancei	*	4.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	CARTGRID	R20	294330	3932590	5.11E-05	71432	Benzene	4.58E-09	70YrCancei	*	4.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	CARTGRID	R20	294350	3932590	5.05E-05	71432	Benzene	4.53E-09	70YrCancei	*	4.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	CARTGRID	R20	294370	3932590	5.01E-05	71432	Benzene	4.49E-09	70YrCancei	*	4.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1	CARTGRID	R20	294330	3932550	2.48E-06	110827	Cyclohexar	0.00E+00	70YrCancei	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	CARTGRID	R20	294350	3932550	2.44E-06	110827	Cyclohexar	0.00E+00	70YrCancei	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	CARTGRID	R20	294370	3932550	2.41E-06	110827	Cyclohexar	0.00E+00	70YrCancei	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	CARTGRID	R20	294330	3932570	2.48E-06	110827	Cyclohexar	0.00E+00	70YrCancei	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	CARTGRID	R20	294350	3932570	2.45E-06	110827	Cyclohexar	0.00E+00	70YrCancei	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	CARTGRID	R20	294370	3932570	2.42E-06	110827	Cyclohexar	0.00E+00	70YrCancei	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	CARTGRID	R20	294330	3932590	2.49E-06	110827	Cyclohexar	0.00E+00	70YrCancei	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	CARTGRID	R20	294350	3932590	2.46E-06	110827	Cyclohexar	0.00E+00	70YrCancei	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	CARTGRID	R20	294370	3932590	2.44E-06	110827	Cyclohexar	0.00E+00	70YrCancei	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1	CARTGRID	R20	294330	3932550	1.58E-05	100414	Ethyl Benze	1.23E-10	70YrCancei	*	1.23E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	CARTGRID	R20	294350	3932550	1.55E-05	100414	Ethyl Benze	1.21E-10	70YrCancei	*	1.21E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	CARTGRID	R20	294370	3932550	1.53E-05	100414	Ethyl Benze	1.19E-10	70YrCancei	*	1.19E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	CARTGRID	R20	294330	3932570	1.58E-05	100414	Ethyl Benze	1.23E-10	70YrCancei	*	1.23E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	CARTGRID	R20	294350	3932570	1.55E-05	100414	Ethyl Benze	1.21E-10	70YrCancei	*	1.21E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	CARTGRID	R20	294370	3932570	1.53E-05	100414	Ethyl Benze	1.20E-10	70YrCancei	*	1.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	CARTGRID	R20	294330	3932590	1.58E-05	100414	Ethyl Benze	1.24E-10	70YrCancei	*	1.24E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	CARTGRID	R20	294350	3932590	1.56E-05	100414	Ethyl Benze	1.22E-10	70YrCancei	*	1.22E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	CARTGRID	R20	294370	3932590	1.55E-05	100414	Ethyl Benze	1.20E-10	70YrCancei	*	1.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1	CARTGRID	R20	294330	3932550	0.000375	110543	Hexane	0.00E+00	70YrCancer	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	CARTGRID	R20	294350	3932550	0.000368	110543	Hexane	0.00E+00	70YrCancer	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	CARTGRID	R20	294370	3932550	0.000364	110543	Hexane	0.00E+00	70YrCancer	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	CARTGRID	R20	294330	3932570	0.000375	110543	Hexane	0.00E+00	70YrCancer	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	CARTGRID	R20	294350	3932570	0.00037	110543	Hexane	0.00E+00	70YrCancer	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	CARTGRID	R20	294370	3932570	0.000366	110543	Hexane	0.00E+00	70YrCancer	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	CARTGRID	R20	294330	3932590	0.000376	110543	Hexane	0.00E+00	70YrCancer	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	CARTGRID	R20	294350	3932590	0.000372	110543	Hexane	0.00E+00	70YrCancer	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	CARTGRID	R20	294370	3932590	0.000369	110543	Hexane	0.00E+00	70YrCancer	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1	CARTGRID	R20	294330	3932550	5.71E-05	108883	Toluene	0.00E+00	70YrCancer	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	CARTGRID	R20	294350	3932550	5.61E-05	108883	Toluene	0.00E+00	70YrCancer	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	CARTGRID	R20	294370	3932550	5.54E-05	108883	Toluene	0.00E+00	70YrCancer	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	CARTGRID	R20	294330	3932570	5.71E-05	108883	Toluene	0.00E+00	70YrCancer	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	CARTGRID	R20	294350	3932570	5.63E-05	108883	Toluene	0.00E+00	70YrCancer	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	CARTGRID	R20	294370	3932570	5.57E-05	108883	Toluene	0.00E+00	70YrCancer	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	CARTGRID	R20	294330	3932590	5.73E-05	108883	Toluene	0.00E+00	70YrCancer	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	CARTGRID	R20	294350	3932590	5.66E-05	108883	Toluene	0.00E+00	70YrCancer	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	CARTGRID	R20	294370	3932590	5.61E-05	108883	Toluene	0.00E+00	70YrCancer	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1	CARTGRID	R20	294330	3932550	3.01E-05	1330207	Xylenes	0.00E+00	70YrCancer	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	CARTGRID	R20	294350	3932550	2.95E-05	1330207	Xylenes	0.00E+00	70YrCancer	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	CARTGRID	R20	294370	3932550	2.92E-05	1330207	Xylenes	0.00E+00	70YrCancer	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	CARTGRID	R20	294330	3932570	3.01E-05	1330207	Xylenes	0.00E+00	70YrCancer	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	CARTGRID	R20	294350	3932570	2.96E-05	1330207	Xylenes	0.00E+00	70YrCancer	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	CARTGRID	R20	294370	3932570	2.93E-05	1330207	Xylenes	0.00E+00	70YrCancer	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	CARTGRID	R20	294330	3932590	3.02E-05	1330207	Xylenes	0.00E+00	70YrCancer	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	CARTGRID	R20	294350	3932590	2.98E-05	1330207	Xylenes	0.00E+00	70YrCancer	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	CARTGRID	R20	294370	3932590	2.96E-05	1330207	Xylenes	0.00E+00	70YrCancer	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1	CARTGRID	R20	294330	3932550	3.67E-06	7783064	H2S	0.00E+00	70YrCancer	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	CARTGRID	R20	294350	3932550	3.60E-06	7783064	H2S	0.00E+00	70YrCancer	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	CARTGRID	R20	294370	3932550	3.56E-06	7783064	H2S	0.00E+00	70YrCancer	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	CARTGRID	R20	294330	3932570	3.67E-06	7783064	H2S	0.00E+00	70YrCancer	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	CARTGRID	R20	294350	3932570	3.61E-06	7783064	H2S	0.00E+00	70YrCancer	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	CARTGRID	R20	294370	3932570	3.58E-06	7783064	H2S	0.00E+00	70YrCancer	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	CARTGRID	R20	294330	3932590	3.68E-06	7783064	H2S	0.00E+00	70YrCancer	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	CARTGRID	R20	294350	3932590	3.64E-06	7783064	H2S	0.00E+00	70YrCancer	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	CARTGRID	R20	294370	3932590	3.61E-06	7783064	H2S	0.00E+00	70YrCancer	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

School_EQHO_100515CancerRisk.csv

EGG_RISK	1ST_DRIVE	2ND_DRIVER
0.00E+00	INHALATION	
0.00E+00	INHALATION	
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School_EQHO_100515CancerRisk.csv

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PathwayRec.csv

1	2	3	4	5
POL	POLABBRE\	WATER	FISH	PASTURE
9901	DieselExhP	0	0	0
95636	1,2,4TriMe	0	0	0
71432	Benzene	0	0	0
110827	Cyclohexar	0	0	0
100414	Ethyl Benze	0	0	0
110543	Hexane	0	0	0
108883	Toluene	0	0	0
1330207	Xylenes	0	0	0
7783064	H2S	0	0	0

GLCList.csv

C:\LNM\EC C:\LNM\ECS\Kern_EIR\	9901
C:\LNM\EC C:\LNM\ECS\Kern_EIR\	95636
C:\LNM\EC C:\LNM\ECS\Kern_EIR\	71432
C:\LNM\EC C:\LNM\ECS\Kern_EIR\	110827
C:\LNM\EC C:\LNM\ECS\Kern_EIR\	100414
C:\LNM\EC C:\LNM\ECS\Kern_EIR\	110543
C:\LNM\EC C:\LNM\ECS\Kern_EIR\	108883
C:\LNM\EC C:\LNM\ECS\Kern_EIR\	1330207
C:\LNM\EC C:\LNM\ECS\Kern_EIR\	7783064

Appendix M-3

Draft Emissions Reduction Agreement

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EMISSION REDUCTION AGREEMENT

DRAFT – October 29, 2015

This Emission Reduction Agreement ("Agreement") is entered into as of [month] [date], 2015, by and between the COUNTY OF KERN ("County") and the SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT, an air pollution control district formed pursuant to California Health and Safety Code section 40150, et seq. ("District").

RECITALS

WHEREAS, the County approved amendments to the Kern County Zoning Ordinance regulating oil and gas production, including Chapter 19.98 and related sections of the Zoning Ordinance ("Project" or "Ordinance"), and certified an Environmental Impact Report ("EIR") for the Project, in [2015]; and

WHEREAS, the Project requires compliance with the Ordinance and the EIR mitigation measures set forth in Exhibit A, including but not limited to Air Quality Mitigation Measures 4.3-1 to 4.3-5, attached hereto and incorporated herein ("Emission Reduction Mitigation Measures"), in order to significantly reduce Project air emissions associated with the Project; and

WHEREAS, despite incorporation of various emission reduction mitigation measures, without additional emission reductions the Project would cause impacts on air quality within the geographical boundaries of the San Joaquin Valley Unified Air Pollution Control District, as depicted on Exhibit B attached hereto and incorporated herein (the "District Boundaries"); and

WHEREAS, County has required in Mitigation Measure 4.3-5 that applicants for County oil and gas permits issued under the Ordinance ("Applicants") offset emissions of Nitrogen Oxide (NOx), Reactive Organic Compounds (ROGs) and Particulate Matter (PM) of County-permitted activities ("Activities") under the Ordinance through offsetting emission reductions that are either: (1) implemented by the Applicant, with the quantity of emission reductions verified by the Air District; (2) funded by the Applicant and

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implemented by or under contract to the County, with the quantity of emission reductions verified by the Air District; or (3) funded by the Applicant through the District's incentive programs, as described below.

WHEREAS, District is an air pollution control district formed by the counties of Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus and Tulare, pursuant to California Health and Safety Code section 40150, et seq.; and

WHEREAS, District is responsible for developing and implementing air quality control measures within the District Boundaries, including air quality control measures for stationary sources, transportation sources, and indirect sources; and

WHEREAS, the District has developed emission reduction incentive programs have been developed around several core principles, including cost-effectiveness, integrity, effective program administration, excellent customer service, the efficient use of District resources, fiscal transparency and public accountability; and

WHEREAS, the District's incentive programs and regulatory activities are regularly audited by independent outside agencies including professional accountancy corporations on behalf of the federal government, the California Air Resources Board (ARB), the California Department of Finance and the California Bureau of State Audits; and

WHEREAS, the District has determined that with appropriate funding, the District can provide: (1) protocols for measuring and verifying emission reductions achieved by Applicants to offset emission increases; (2) protocols for measuring and verifying emission reductions achieved by or under contract to the County based on mitigation fees paid to the County by the Applicant; and (3) reductions of emissions through District incentive programs, and achieve emission reductions in sufficient quantities to comply with Mitigation Measure 4-3-5; and

WHEREAS, County and District desire to enter into this Agreement in order to assure implementation of Mitigation Measure 4.3-5, with per well emission reductions in the amounts set forth in Exhibit C (EIR Table 3.4-32) for NOx, ROG, and PM (including

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particulate matter that is less than 10 microns in size, and the subset of 2.5-microns or less in size) (collectively, "criteria pollutants"). As a result of the implementation of this Agreement, the development of the Project will result in no net increase in these criteria pollutant emissions from the oil and gas production activities regulated by the Ordinance.

AGREEMENT

NOW THEREFORE, in exchange of the mutual covenants herein contained, County and District hereby agree as follows:

1. **Mitigation of Project-Related Impacts on Air Quality**

Project emissions shall be mitigated by achieving surplus, quantifiable and enforceable emission reductions for VOC/ROG, NOx, and PM (collectively, "Mitigation of Criteria Pollutants"). "Surplus" emission reductions are reductions that are not otherwise required by laws or regulations in effect and applicable to Applicant Activities in the year for which a County permit or approval is issued under the Ordinance. The determination of whether proposed emission reductions are surplus shall be performed by the District based on laws and regulations (including but not limited to emission offsets required under District stationary source permit rules) in effect in the year for which a County permit is issued.

Mitigation of Criteria Pollutants shall be required in the amounts set forth in Exhibit C. Fewer emission reductions than identified in Exhibit C may be provided as mitigation only if:

(a) the County approves a revised air quality impact assessment, which is reviewed as required under CEQA and is approved by the District, that demonstrates that Project related air quality impacts are less than originally quantified and accordingly that Exhibit C should be revised;

(b) the District reviews and approves an alternate per well emission calculation based on an Applicant's use of different well emission construction equipment than the list used to derive the quantities set forth in Exhibit C ("Schedule 1 List"), and provides

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such alternative equipment lists to the County (e.g., "Schedule 2 List," Schedule 3 List," etc.); or

(c) the District's rules or regulations change such that Project-related emissions that are not, as of the effective date of this Agreement, required to obtain offsets under District stationary source permitting rules are subsequently required to obtain such offsets.

Project-related air quality impacts shall be implemented by one or more of the following three categories of emission reduction proposals:

Category 1: **Applicant Emission Reductions**. The District shall separately contract with interested applicants for permits and approvals issued under the Ordinance ("Applicant(s)") for the cost of developing protocols for calculating emission reduction estimates from Applicant Emission Reduction proposals ("Quantification Protocol"). An Applicant may satisfy its emission reduction obligations under Mitigation Measure 4.3-5 with an Applicant Emission Reduction only after the District has approved a corresponding Quantification Protocol, and the District has provided written confirmation to the County of the emission reduction quantities for an Applicant Emission Reduction that an applicant proposes to use to satisfy its obligations under Mitigation Measure 4.3-5 in lieu of paying the mitigation fee prescribed therein. It is anticipated that one or more Applicants will seek District approval for the Applicant Emission Reduction proposals listed on Exhibit D.

Category 2: **County Emission Reductions**. Applicants shall pay an air quality mitigation fee to the County as specified in Mitigation Measure 4.3-5, which shall be due and payable at the time a permit is approved ("Air Quality Mitigation Fee"), to be used for Mitigation of Criteria Pollutants through projects annually selected by the County. The County staff shall accept for review emission reduction applications submitted by any party during an annual application process. Each such application shall be evaluated by County staff, working in collaboration with District staff, based on the quantity and types of emission reductions achieved, public health benefits, the cost-effectiveness of the

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proposal, and any other factor that a sponsor of a proposal may choose to bring to the County's attention. The Board of Supervisors shall annually review and select among such applications the County Emission Reduction Proposals.

An administrative fee of three percent shall be added to the Air Quality Mitigation Fee collected under Mitigation Measure 4.3-5 to administer the County Emission Reduction program, with one percent retained by the County and two percent provided to the District. The District shall use its administrative funding amount to peer review or otherwise quantify emission reductions that would be achieved from submitted applications, and to assist the County staff in evaluating applications for Board consideration. The County shall use its administrative funding amount to manage the annual review and selection process, and to validate implementation of emission reduction proposals for purposes of tracking emission reductions under the Mitigation Monitoring and Reporting Program ("MMRP").

Category 3: District Incentive Program Emission Reductions. The County may, as part of the annual review and selection process, select emission reduction measures from the District's Incentive Programs (including but not limited to specifying that such measures must be implemented within Kern County). Upon selection, the County shall provide Air Quality Mitigation Funds to the District to achieve emission reductions through the District's Incentive Programs. Upon District's receipt of Air Quality Mitigation Funds, District shall (1) use diligent efforts to enter into Funding Agreements with the owners and/or operators of the pollution source equipment as identified in the Emission Reduction Proposals, within one hundred eighty (180) days of receiving funding; (2) determine the types and quantities of permanent reduction in emissions which would be realized by the Emission Reduction Proposals; (3) perform the determination of surplus emission reductions of NOx, ROG, and PM; and (4) advise County of such determination in writing. District shall notify County or designee in writing of Funding Agreements entered into by the District. If District is unable to enter into Funding Agreements with owners or operators, or if requested by County in writing,

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District shall return the unused portion the Air Quality Mitigation Funds to the County for use as County Emission Reductions. The District shall charge an administrative fee of 2% for implementation of District Incentive Program Emission Reductions.

2. **Administration and Monitoring of Emission Reductions**

County shall prepare, as part of annual Mitigation Monitoring and Reporting Plans, emission reductions paid for and achieved by implementation of this Agreement.

3. **Excess Emission Reductions**

County shall be credited with all emission reductions achieved by District through this Agreement that exceed the amount of required emission reductions for the Project ("Excess Emission Reduction"). Unless otherwise agreed to by the County, District and an Applicant, Excess Emission Reductions for wells that are not constructed during the planned calendar shall be credited to the Applicant, or to an alternate applicant designated by the Applicant, to achieve required Emission Reductions for future wells in subsequent

4. **Compliance with District Rules and Regulations**

County acknowledges that notwithstanding this Agreement, Applicants remain subject to and are required to comply with all applicable District rules and regulations.

5. **CEQA Compliance**

The County shall remain fully responsible as the lead agency for enforcing the Ordinance and monitoring to assure implementation of the Mitigation Measures included in the EIR, and for preparing annual reports pursuant to the County's Mitigation Monitoring and Reporting Program.

6. **District Obligations**

6.1 **Oversight of Funding Agreements**

District shall ensure that the owners/operators of equipment subject to Funding Agreements for District Incentive Program Emission Reductions perform all obligations to be performed on the part of such parties under said Funding Agreements.

6.2 **Emission Reduction Quantification Protocol**

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District shall, at the sole cost of an Applicant, develop Quantification Protocols for Applicant Emission Reductions.

6.3 **Emission Reduction Estimates**

District shall collaborate with the County staff in reviewing applications for County Emission Reductions, and shall advise the County on the quantity of emission reductions by applications and County Emission Reductions.

7. **Subsequent Litigation, Legislation and/or Administrative Action / Credit to County**

In the event that despite this Agreement, the County is required as a result of a final judgment or District Approved Settlement (as defined below) in any third party litigation, to pay air quality mitigation funds in addition to the Air Quality Mitigation Fees paid under Paragraph 1 above, then District shall acknowledge and credit the County with emission reductions achieved pursuant to Paragraph 1, and any additional emission reductions achieved to mitigate the Project related impacts on air quality that will result from payment of such additional monies. For purposes of this Paragraph, a "District Approved Settlement" shall mean a settlement of a lawsuit filed pursuant to CEQA, the National Environmental Protection Act or other applicable environmental law which: (i) provides for the County's (or an Applicant(s)') payment of monies in exchange for a dismissal of such lawsuit, (ii) provides for the use of such monies by the petitioner in such lawsuit in such a manner as to further reduce Project-related air emissions, and (iii) is approved in writing by District. The District shall have no authority to settle, or otherwise, commit the Air Quality Mitigation Fees in any settlement of, a third party lawsuit without the County's consent.

8. **Term of Agreement**

This Agreement shall be effective upon the date first written above, and shall remain in effect until or unless terminated by the County or the District. County may, at any time by written notice to District, terminate this Agreement, whereupon, (i) District shall acknowledge in writing to the Lead Agency that County has mitigated air quality

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impacts of the Project to the extent and in the types and quantities brought about by Funding Agreements and Mitigation Measures, (ii) District shall refund to County any unused portion of County's Emission Reduction Proposal Advances or Air Quality Mitigation Funds less any unpaid administrative costs incurred; and (iii) neither County nor District shall have any further rights or obligations under this Agreement except as expressly provided. District's obligations to oversee implementation of Funding Agreements pursuant to Paragraph 9.2 (Oversight of Funding Agreements), shall remain effective for as long as necessary to ensure that the anticipated emission reductions continue to be achieved to the extent specified in the environmental review document certified by the County.

9. **Representations, Covenants and Warranties**

9.1. **County's Representations, Covenants and Warranties**.

County represents, covenants and warrants to District, as of the date of this Agreement, as follows:

9.1.1 The undersigned representatives of County are duly authorized to execute, deliver and perform this Agreement, and upon County's execution and delivery of this Agreement, this Agreement will have been duly authorized by County.

9.1.2 Upon execution and delivery of this Agreement by County, County's obligations under this Agreement shall be legal, valid and binding obligations of County, duly enforceable at law and in equity in accordance with the terms and conditions of this Agreement.

9.1.3. There is no lawsuit, legal action, arbitration, legal or administrative proceeding, legislative quasi-legislative or administrative action or claim existing, pending, threatened or anticipated which would render all or any portion of this Agreement invalid, void or unenforceable in accordance with the terms and conditions thereof.

9.1.4. Other than the execution and delivery of this Agreement by the undersigned representatives of County, there are no approvals, consents, confirmations,

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(559) 230-6000

proceedings, or other actions required by County or any third party, entity or agency in order to enter into and carry out the terms, conditions and intent of the parties with respect to this Agreement, except as required to enter Funding Agreements.

9.2. **District's Representations, Covenants and Warranties**

District represents, covenants and warrants to County, as of the date of this Agreement, as follows:

9.2.1. The undersigned representatives of District are duly authorized to execute, deliver and perform this Agreement, and upon District's execution and delivery of this Agreement, this Agreement will have been duly authorized by District.

9.2.2. Upon execution and delivery of this Agreement by District, District's obligations under this Agreement shall be legal, valid and binding obligations of District, duly enforceable at law and in equity in accordance with the terms and conditions of this Agreement.

9.2.3. There is no lawsuit, legal action, arbitration, legal or administrative proceeding, legislative, quasi-legislative or administrative action or claim existing, pending, threatened or anticipated which would render all or any portion of this Agreement invalid, void or unenforceable in accordance with the terms and conditions thereof.

9.2.4. Other than the execution and delivery of this Agreement by the undersigned representatives of District, there are no approvals, consents, confirmations, proceedings, or other actions required by District or any third party, entity or agency in order to enter into and carry out the terms, conditions and intent of the parties with respect to this Agreement, except as required to enter Funding Agreements

9.2.5. Upon the approval of this Agreement by the governing board of District, the Air Pollution Control Officer of District, or equivalent representative, or a delegee of such officer, shall have the authority to approve, deliver, verify, enter into, acknowledge and/or accept any communication, notice, notification, verification, agreement and/or other document to be issued or entered into by District under the terms

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and conditions of this Agreement, without further approval of the governing board of District.

10. **Indemnification**

Neither party agrees to indemnify, defend and hold harmless the other party to this Agreement.

11. **Recitals Incorporated**

The recitals set forth hereinabove are hereby incorporated into this Agreement and acknowledged, agreed to and adopted by the parties to this Agreement.

12. **Further Assurances**

County and District agree to execute and deliver any documents and/or perform any acts which are reasonably necessary in order to carry out the intent of the parties with respect to this Agreement.

13. **No Joint Venture or Partnership**

District and County agree that nothing contained in this Agreement or in any document executed in connection with this Agreement shall be construed as making District and County joint venturers or partners.

14. **Notices**

Any notices or communications relating to this Agreement shall be given in writing and shall be deemed sufficiently given and served for all purposes when delivered, if (a) in person, (b) by facsimile (with the original delivered by other means set forth in this paragraph, (c) by generally recognized overnight courier or (d) by United States Mail, certified or registered mail, return receipt requested, postage prepaid, to the respective addresses set forth below, or to such other addresses as the parties may designate from time to time by providing written notice of the change to the other party.

COUNTY	**DISTRICT**
<Contact name>	Seyed Sadredin
<COUNTY.	Executive Director/APCO
<Mailing Address>	1990 E. Gettysburg Ave.
<City, State, zip code>	Fresno, CA 93726

SJVUAPCD
1990 E. Gettysburg
Fresno, CA 93726
(559) 230-6000

Phone:	Phone: (559) 230-6000
Fax:	Fax: (559) 230-6061

15. **Entire Agreement**

The terms of this Agreement, together with all attached exhibits, are intended by the parties as the complete and final expression of their agreement with respect to such terms and exhibits and may not be contradicted by evidence of any prior or contemporaneous agreement. this Agreement specifically supersedes any prior written or oral agreements between the parties with respect to the subject matter of this Agreement.

16. **Amendments and Waivers**

No addition to or modification of this Agreement shall be effective unless set forth in writing and signed by the party against whom the addition or modification is sought to be enforced. The party benefited by any condition or obligation may waive the same, but such waiver shall not be enforceable by another party unless made in writing and signed by the waiving party.

17. **Invalidity of Provisions**

If any provision of this Agreement as applied to either party or to any circumstance shall be adjudged by a court of competent jurisdiction to be void or unenforceable for any reason, the same shall in no way affect (to the maximum extent permissible by law) any other provision of this Agreement, the application of any such provision under circumstances different from those adjudicated by the court, or the validity or enforceability of this Agreement as a whole. The parties further agree to replace any such invalid, illegal or unenforceable portion with a valid and enforceable provision, which will achieve, to the maximum extent legally possible, the economic, business or other purposes of the invalid, illegal or unenforceable portion.

18. **Construction**

Unless otherwise indicated, all paragraph references are to the paragraph of this Agreement and all references to days are to calendar days. Whenever, under the terms

of this Agreement the time for performance of a covenant or condition falls upon a Saturday, Sunday or California state holiday, the time for performance shall be extended to the next business day. The headings used in this Agreement are provided for convenience only and this Agreement shall be interpreted without reference to any headings. Wherever required by the context, the singular shall include the plural and vice versa, and the masculine gender shall include the feminine or neuter genders, or vice versa. This Agreement may be executed in one or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. The language in all parts of this Agreement shall be construed as a whole in accordance with its fair meaning, and shall not be construed against any party solely by virtue of the fact that such party or its counsel was primarily responsible for its preparation.

19. **Governing Law**

19.1 The rights and obligations of the parties and the interpretation and performance of this Agreement shall be governed in all respects by the laws of the State of California.

19.2 Venue for any action arising out of or relating to this Agreement shall be in Kern County, California.

20. **No Third-party Beneficiaries**

Nothing in this Agreement, express or implied, is intended to confer any rights or remedies under or by reason of this Agreement on any person other than the parties to it and their respective permitted successors and assigns, nor is anything in this Agreement intended to relieve or discharge any obligation of any third person to any party hereto or give any third person any right of subrogation or action over or against any party to this Agreement. All Applicants shall continue to be required to comply with all applicable District rules and regulations.

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21. **Exhibits**

The exhibits attached to this Agreement shall be deemed to be a part of this Agreement and are fully incorporated herein by reference.

22. **Force Majeure**

The time within which any party shall be required to perform under this Agreement shall be extended on a day-per-day basis for each day during which such performance is prevented or delayed by reason of events reasonably outside of the control of the performing party, including, without limitation, acts of God, events of destruction, acts of war, civil insurrection, strikes, shortages, governmental delays, moratoria, civil litigation and the like, and/or delays caused by the non-performing party's act or omission.

IN WITNESS WHEREOF, County and District have executed this Agreement and agree that it shall be effective as of the date first written above.

COUNTY

Board of Supervisors
County of Kern

By:_____

Title:_____

DISTRICT

San Joaquin Valley Unified Air Pollution Control District

_____
<FIRST AND LAST NAME>
SEE G:/Intranet_Files/PER/district_governing_board_roster.docx
Governing Board Chair

Recommended for approval:
San Joaquin Valley Unified Air Pollution Control District

_____
Seyed Sadredin
Executive Director/APCO

Approved as to legal form:
San Joaquin Valley Unified Air Pollution Control District

_____

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Annette Ballatore-Williamson
District Counsel

Approved as to accounting form:

_____
Mehri Barati
Director of Administrative Services

For accounting use only:
San Joaquin Valley Unified Air Pollution Control District

Program: _____
Account No: _____

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EXHIBIT A

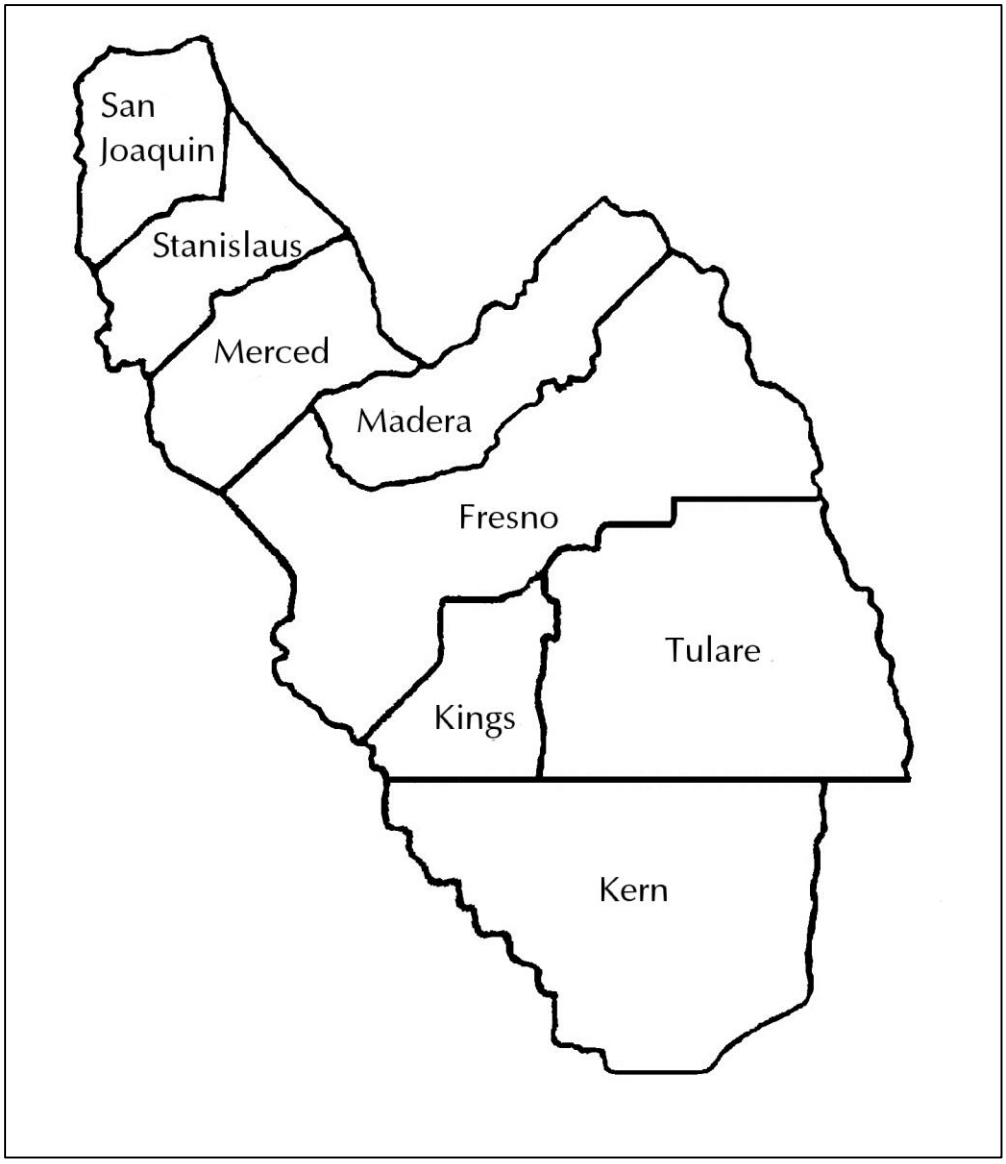
MITIGATION MEASURES

INSERT MITIGATION MEASURE SUMMARY TABLE HERE

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EXHIBIT B

DISTRICT BOUNDARIES



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EXHIBIT C

PROJECT EMISSIONS

INSERT EIR TABLE 4.3-32 HERE

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EXHIBIT D

Priority Quantification and Verification Protocols for District Review of Applicant Emission Reduction Proposal

INSERT ANT TEAM PROPOSALS HERE, INCLUDING:

1. ACCELERATED DEPLOYMENT OF CLEANER ENGINES
2. PM REMOVAL EQUIPMENT
3. ROAD PAVING

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Appendix M-4

ANT Proposal: Emissions and Methodology Validation and Mitigation Menu

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ANT PROPOSAL

Emissions and Methodology Validation and Mitigation Menu

ANT: Robert Boston, Dennis Champion, Ashley Dahlstrom, Shams Hasan, Steve Radis and Peggy Shue. Resumes Provided in Appendix H

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Validation of Emissions Calculations and Methodology

I. Correction to Stationary Source Equipment Numbers

Two corrections are needed to the projected stationary source equipment numbers provided by Vector Environmental. The first is that the growth factor in the spreadsheet for the stationary source information changed (primarily KR) resulting from the manner in which abandoned wells were accounted for. The growth factor is now smaller than previously identified. The change in growth factor resulted in changes to spreadsheets "SS_EQUIP_EMS_V2.slsx" and "KC_WELL_STATS_BY_ZONE_V2.XLSX".

In addition to this first correction, the spreadsheet, "SS_EQUIP_EMS_V2.slsx", contained an incorrect factor. The factor used in the equation for projecting needed equipment capacity for small producers should have been expressed as a fractional value (0.10). However 10% (integer value) was used to estimate the amount of equipment at buildout. Consequently, emissions from construction activity were significantly overestimated. The values have been revised accordingly.

Revised spreadsheets are included in Appendix A.

II. Correction to Total Project Emissions Calculation

A correction is needed to the total project emissions calculation of the draft EIR. The worksheet used to calculate the total project emissions incorrectly includes the incremental stationary source permitted equipment emissions rather than the stationary source construction emissions.

Specifically, the tab "Totals VERA" includes a table at the bottom "Permitted Emissions". The data in the table "Permitted Emissions" comes from the tab, "Permitted". The "Permitted" tab data that is referenced is not linked to construction emissions. Instead it appears to be pulling the incremental increase in permitted stationary source emissions. These numbers should be adjusted to reference the table "Construction" in the "Permitted" tab.

III. Engine Use Survey Results

To validate the drilling emissions included in the draft EIR, five oil and gas companies of various sizes were surveyed. The survey had two primary objectives: 1) Validate the typical engine equipment set-up utilized for the well drilling portion of the well construction emissions calculations and 2) Validate the engine load factors utilized in the analysis.

Typical Engine Equipment Set-up Validation:

The draft EIR currently has the following equipment configurations listed:

Equipment used for Drilling a 5,000’ well

ENGHP	EQUIPCNT	EQUIPUSE	EQUIPCLASS	Load Factor
230	1	Portable Crane	Construction and Mining	0.288100000
20	5	Port Light stands	Industrial	0.341700000
80	1	Portable Gen. Hydraulic Power	Industrial	0.341700000
100	2	Portable Gen. DSM/Trailers	Industrial	0.341700000
420	1	Portable Gen. Mud Separator	Industrial	0.341700000
135	1	Rotary Table or Top Drive	Oil Drilling	0.502500000
455	1	Diesel Engine For Hoist	Oil Drilling	0.502500000
442	1	Diesel Engine For Hoist	Oil Drilling	0.502500000
424	1	Diesel Engine For Mud Pump	Oil Drilling	0.502500000
1741 hp	Total	Including all engines > 400 hp		

Equipment used for Drilling a 10,000’ well

ENGHP	EQUIPCNT	EQUIPUSE	EQUIPCLASS	Load Factor
230	1	Portable Crane	Construction and Mining	0.288100000
20	5	Port Light stands	Industrial	0.341700000
80	1	Portable Gen. Hydraulic Power	Industrial	0.341700000
100	2	Portable Gen. DSM/Trailers	Industrial	0.341700000
420	1	Portable Gen. Mud Separator	Industrial	0.341700000
144	1	Diesel Electric - Rotary	Oil Drilling	0.502500000
996	1	Diesel Electric - Hoist & Pump	Oil Drilling	0.502500000
981	1	Diesel Electric - Hoist & Pump	Oil Drilling	0.502500000
1145	1	Diesel Electric - Hoist & Pump	Oil Drilling	0.502500000
3,542 hp	Total	Including all engines > 400 hp		

Equipment used for Drilling a 15,000’ well

ENGHP	EQUIPCNT	EQUIPUSE	EQUIPCLASS	Load Factor
230	1	Portable Crane	Construction and Mining	0.288100000
20	5	Port Light stands	Industrial	0.341700000
80	1	Portable Gen. Hydraulic Power	Industrial	0.341700000
100	2	Portable Gen. DSM/Trailers	Industrial	0.341700000
420	1	Portable Gen. Mud Separator	Industrial	0.341700000
158	1	Diesel Electric - Rotary	Oil Drilling	0.502500000
1094	1	Diesel Electric - Hoist	Oil Drilling	0.502500000
962	1	Diesel Electric - Hoist	Oil Drilling	0.502500000
1898	1	Diesel Electric - Hoist	Oil Drilling	0.502500000
4,374	Total	Including all engines > 400 hp		

Survey results for the five companies are consistent in total hp with these typical configurations as follows:

For wells depths 5,000 feet or less, typical drilling rig configuration included main engines at a rated capacity of approximately 1,800 hp with:

- Combination of three (3) of the following engine types:
    - Detroit Diesel Series 60 (525 hp)
    - Detroit Diesel Model 6063MK33 (475 hp)
    - Detroit Diesel Model 6063HK33 (665 hp)
    - Detroit Diesel Model 6063HV33 (665 hp)
    - Detroit Diesel Model 6063HV35 (685 hp)

For well depths greater than 5,000 feet, typical drilling rig configurations included main engines at a rated capacity of approximately 4,400 hp with:

- Three (3) of the following engine types:
    - Caterpillar Model 3512D (1477 hp)
    - Detroit Diesel Model 16V2000 (1354 hp)
    - Detroit Diesel Series 2000 (1495 hp)

The full engine use survey summary and results are included in Appendix B.

Load Factor Validation

Emissions for the engines were quantified in the draft EIR using fleet average emission factors from CARB's 2011 OFFROAD Model. Engines were grouped into three categories: Construction and Mining, Industrial or Oil Drilling as identified in the equipment configurations provided above. The OFFROAD Model relies on the following load factors for these categories:

Construction and Mining	0.288100000
Industrial	0.341700000
Oil Drilling	0.502500000

To validate use of these load factors, the following information was obtained in the engine use survey: rated bhp (to calculate maximum fuel use using EPA Fuel usage conversion AP-42 section 3.4, Table 3.4-1), fuel use, and hours of use. Given this data, the survey results indicate the average load factor for engines used in well drilling ranges from 0.297 – 0.393. Therefore, the Oil Drilling Emission factor was revised to 0.40.

To do this the following steps were taken:

1. The percent of Construction – Well Drilling offroad engine emissions associated with the Oil Drilling category was identified for each well depth. Equipment/emissions used to calculate this percentage was taken from calendar year 2015.
2. Next the percent of wells drilled in each well depth was determined for each year of the project.
3. These two percentages were multiplied together. This provides the portion of wells drilled each year whose Construction-Well Drilling offroad emissions utilized the oil drilling load factor.
4. The conversion from 0.5025 to 0.40 was converted to a percent reduction –
   1-(0.4/0.5025) = 0.20398
5. Multiplying this percent reduction by the previous percentages then provides the overall reduction to Construction – Well Drilling offroad engine emissions for each well depth, each year.

A summary of the emissions reductions associated with lowering the load factor of the Oil Drilling engine category is included below:

Amount of Construction - Well Drilling Emissions Reduced in Changing from 0.5025 to 0.4 Load Factor in tons/year							
Year	NOX	ROG	CO	SOX	PM10	PM25	VERA Fee Reduction Per Well
2015	87.68	4.58	72.69	0.09	3.03	2.79	$1,370.92
2016	83.65	4.38	72.80	0.09	2.85	2.62	$1,329.07
2017	79.18	4.16	72.94	0.09	2.66	2.45	$1,288.43
2018	68.54	3.62	73.01	0.09	2.21	2.04	$1,186.86
2019	63.04	3.36	73.16	0.09	1.99	1.83	$1,035.59
2020	52.87	3.03	73.25	0.09	1.69	1.55	$953.35
2021	50.92	2.94	73.39	0.09	1.57	1.45	$932.47
2022	39.04	2.49	73.57	0.09	1.20	1.10	$839.78
2023	36.11	2.39	73.67	0.09	1.07	0.98	$813.12
2024	32.46	2.30	73.73	0.09	0.95	0.87	$787.28
2025	30.41	2.23	73.82	0.09	0.86	0.79	$770.54
2026	28.48	2.18	73.94	0.09	0.77	0.71	$598.13
2027	27.32	2.16	74.01	0.09	0.71	0.66	$588.13
2028	25.54	2.13	74.18	0.09	0.66	0.61	$575.05
2029	24.74	2.08	74.29	0.09	0.64	0.58	$568.91
2030	24.77	2.08	74.40	0.09	0.64	0.59	$568.36
2031	24.83	2.09	74.55	0.09	0.64	0.59	$569.30
2032	24.84	2.09	74.60	0.09	0.64	0.59	$568.70
2033	24.87	2.09	74.65	0.09	0.64	0.59	$570.78
2034	24.91	2.10	74.79	0.09	0.64	0.59	$570.17
2035	24.95	2.10	74.93	0.09	0.64	0.59	$569.61
						Average:	**$812.12**

III. Emissions Offsets Requirements for Major Stationary Sources

San Joaquin Valley Air Pollution Control District (District) Rule 2201, New and Modified Stationary Source Review Rule (NSR), is applicable, "…to all new stationary sources and all modifications to existing stationary sources which are subject to the District permit requirements and after construction emit or may emit one or more affected pollutant." Section 1.0 of Rule 2201 states, "The purpose of this rule is to provide the following:

1.1 The review of new and modified Stationary Sources of air pollution and to provide mechanisms including emission trade-offs by which Authorities to Construct such sources may be granted, without interfering with the attainment or maintenance of Ambient Air Quality Standards; and

1.2 No net increase in emissions above specified thresholds from new and modified Stationary Sources of all nonattainment pollutants and their precursors.

Section 4.5, Emission Offset Requirements, addresses the rule's emission trade-off mechanism referenced in Section 1.1 above. Section 4.5.3 states:

> Offset requirements shall be triggered on a pollutant-by-pollutant basis. Unless exempted pursuant to Section 4.6, offsets shall be required if the post-project Stationary Source Potential to Emit (SSPE2) equals or exceeds the following offset threshold levels:

Table 4-1, Emissions Offset Threshold Levels

POLLUTANT	SSPE2 (POUNDS /YEAR)
VOC	20,000
NOx	20,000
CO (non-attainment areas)	30,000
CO (attainment areas)	200,000
SOx	54,750
PM10	29,200

Major Sources are defined in Section 3.24 as "for each pollutant, a Stationary Source with post-project emissions or a post-project Stationary Source Potential to Emit (SSPE2), equal to or exceeding one or more of the following threshhold values…"

Table 3-3, Major Source Emission Thresholds

POLLUTANT	THRESHOLD (POUNDS PER YEAR)
VOC	20,000
NOx	20,000
CO	200,000
PM2.5	200,000
PM10	140,000
SOx	140,000

As VOC and NOx Major Source Emission Thresholds (Table 4.1) are equal to those of Emission Offset Threshold levels (Table 3.3), the post-project Stationary Source Potential to Emit (SSPE2) for Major Sources of NOx and/or VOC will exceed offset threshold levels as long as they are a major source for these pollutants. Therefore, Major Sources for VOC and/or NOx will be required to provide offsets for all projects which result in an increase of emissions for either of these pollutants.

Section 4.7, Emission Offset Quantity Calculations, addresses the quantity of offsets that Major Sources of NOx and VOC would be required to provide under this rule. Section 4.7.1 states, "For pollutants with a pre-project Stationary Source Potential to Emit (SSPE1) greater than the emission offset threshold levels, emission offsets shall be provided for:

> 4.7.1.1 All increases in Stationary Source emissions, calculated as the sum of differences between the post-project Potential to Emit (PE2) and the Baseline Emissions (BE) of all new and modified emissions units…"

As Major Sources of NOx and VOC will have SSPE1 values which are greater than the emission offset threshold levels as noted above, all increases in stationary source emissions will need to be offset.

The distance offset ratio requirement for these emissions offsets is described in Section 4.8. Section 4.8 states, "Distance Offset Ratio: For offset calculations, the distance offset ratio shall be as shown below:

> 4.8.1 For NOx and VOC offsets for new major sources and federal major modifications, the distance offset ratio shall be 1.5;"

Pursuant to Section 3.18, of Rule 2201, a federal major modification for NOx and VOC is any increase in emissions from a Major Source of NOx or VOC. However, not every source is a major source for both NOx and VOC. Therefore, the list of O&G Major Sources (Appendix C) was reviewed for those facilities which are a major source for each of the respective pollutants. For NOx, 96% of Oil and Gas Major Source emissions would fall into the category of requiring offsets at a ratio of 1.5. For VOC, 99% of Oil and Gas Major Source emissions would fall into the category of requiring offsets at a ratio of 1.5.

The following table can be used to calculate the amount of emissions that will be mitigated through NSR:

Facility operation						
Year	**NOx**	**ROG**	**CO**	**SO2**	**PM10**	**PM2.5**
2012	1862	4266	2876	394	812	812
2015	1911	4350	2953	403	835	835
2016	1960	4433	3029	411	857	857
2017	2009	4517	3106	420	880	880
2018	2057	4601	3183	429	903	903
2019	2106	4684	3259	438	925	925
2020	2155	4768	3336	446	948	948
2021	2204	4852	3413	455	971	971
2022	2253	4935	3489	464	993	993
2023	2302	5019	3566	473	1016	1016
2024	2350	5103	3643	481	1039	1039
2025	2399	5186	3719	490	1061	1061
2026	2448	5270	3796	499	1084	1084
2027	2497	5354	3872	508	1107	1107
2028	2546	5437	3949	516	1129	1129
2029	2595	5521	4026	525	1152	1152
2030	2643	5604	4102	534	1175	1175
2031	2692	5688	4179	542	1197	1197
2032	2741	5772	4256	551	1220	1220
2033	2790	5855	4332	560	1243	1243
2034	2839	5939	4409	569	1265	1265
2035	2888	6023	4486	577	1288	1288

The table above is based upon Vector Environmental's analysis of stationary source emissions below:

Kern County - Baseline Emissions from Stationary Source Equipment

Total	Baseline Emissions from Stationary Source Equipment (2012)					
Baseline Emissions	NOx TPY	VOC TPY	CO TPY	SOx TPY	PM10 TPY	PM2.5
Boiler	1.3398	0.1487	0.2339	0.0087	0.3016	0.3016
Cogeneration	706.1108	193.3278	984.6428	53.4080	205.1160	205.1160
Fugitive PM10	0.0000	0.0000	0.0000	0.0000	2.3305	2.3305
Fugitive VOC	0.0000	290.6551	0.0000	0.0000	0.0000	0.0000
Process Heater	7.4518	1.1439	2.3644	0.1856	1.8702	1.8702
IC Engine (RICE)	336.2598	95.6970	1,388.9096	0.1907	2.9492	2.9492
Steam Generators	560.3716	236.6418	106.6538	241.2484	517.5535	517.5535
Production Tanks	2.2222	539.7282	12.0888	3.9768	0.2371	0.2371
TEOR Wells	27.6740	2,480.0699	20.2190	40.8657	2.7722	2.7722
VOCDD (Flare)	51.5351	41.1672	99.0474	18.4762	5.2719	5.2719
Title-V Emissions	1,692.9650	3,878.5796	2,614.1597	358.3599	738.4023	738.4023
Small Sources (+10%)	169.2965	387.8580	261.4160	35.8360	73.8402	73.8402
Total Emissions (TPY)	1862.2615	4266.4375	2875.5756	394.1959	812.2425	812.2425
Total Emissions (TPD)	5.0881	11.6569	7.8568	1.0770	2.2192	2.2192

Total Kern County - 2035 Emissions from Stationary Source Equipment

Total Emissions	Total	Capacity	Kern County Emissions from Stationary Source Equipment (2035)					
2035 Build-out	Capacity	Units	NOx TPY	VOC TPY	CO TPY	SOx TPY	PM10 TPY	PM2.5
Boiler	156.34	MMBtu/Hr	2.07	0.23	0.36	0.01	0.47	0.47
Cogeneration	3,443.15	MW	1,241.48	324.17	1,732.49	103.79	353.22	353.22
Fugitive PM10	70,037	Wells	0.00	0.00	0.00	0.00	5.09	5.09
Fugitive VOC	70,037	Wells	0.00	419.27	0.00	0.00	0.00	0.00
Process Heater	827.65	MMBtu/Hr	10.16	1.63	3.18	0.30	2.65	2.65
IC Engine (RICE)	295,269.64	BHP*Hr	450.36	128.61	1,869.06	0.27	4.08	4.08
Steam Generators	50,144.42	MMBtu/Hr	795.16	345.32	204.38	335.76	789.42	789.42
Production Tanks	4,345,413.75	BBL Capacity	2.97	867.33	16.14	5.31	0.32	0.32
TEOR Wells	46,784.00	TEOR Wells	36.99	3,310.45	27.24	54.55	3.71	3.71
VOCDD (Flare)	55,845.47	MMBtu/Hr	85.86	78.25	225.07	24.93	11.94	11.94
Total Emissions Title-v O&G Sources			2,625.04	5,475.26	4,077.92	524.93	1,170.88	1,170.88
Total Emissions Small O&G Sources (+10%)			262.50	547.53	407.79	52.49	117.09	117.09
Total Emissions All O&G SOurces (TPY)			2,887.55	6,022.78	4,485.71	577.42	1,287.97	1,287.97
Total Emissions All O&G SOurces (TPD)			7.89	16.46	12.26	1.58	3.52	3.52

As noted, 96% of future NOx Major Source emissions would fall into the category of requiring offsets at a ratio of 1.5 and 99% of future VOC Major Source emissions would also fall into this category. Therefore, the expected amount of emissions reduction achieved through Title V source offsets was calculated as follows:

1. Total Emissions for Title V O&G sources were reduced to 96% of the calculated emissions for NOx and 99% of the calculated emissions for VOC to account for the % of major sources which would be required to provide offsets at a ratio of 1.5 for these two pollutants.
2. This number was then multiplied by the offset ratios. Offset ratios for NOx and VOC were set at 1.5 and offset ratios for CO, SOx, PM10 and PM2.5 were set to 1.0 (no additional reduction is accounted for CO, SOx, PM10 and PM2.5 emissions as these will vary by project and the offsets supplied).
3. The resulting emissions were then added to the total emissions for small O&G sources (+10% of total emissions for Title V O&G Sources) and the remaining Title V O&G source emissions (remaining 4% of emissions for NOx and remaining 1% of emissions for VOC).

At the conclusion of the draft EIR, the total project emissions were summarized then stationary source emissions were subtracted from this total. Rather than subtracting out the stationary source emissions from the total emissions calculation, the emissions with offsets accounted for, as provided above and summarized below, should be subtracted. This approach accounts for the additional mitigation required of Oil and Gas sources through the District's NSR offset mechanism. The resulting total emissions from all O&G sources which should be accounted for as mitigation are included in the last line of each of the following tables.

Kern County - Baseline Emissions from Stationary Source Equipment						
	NOx (TPY)	**VOC (TPY)**	**CO (TPY)**	**SOx (TPY)**	**PM10 (TPY)**	**PM2.5 (TPY)**
Total Emissions Title-v O&G Sources	1,692.97	3,878.58	2,614.16	358.3599	738.4023	738.4023
Total Emissions Small O&G Sources (+10%)	169.2965	387.858	261.416	35.836	73.8402	73.8402
Offset Ratios required by TV O&G Sources	1.5	1.50	1	1	1	1
Total Offsets Provided by Title V O&G Sources if All Sources Were Major Sources for Both NOx and VOC	2,539.45	5,817.87	2,614.16	358.36	738.40	738.40
Given 96% of Major Sources are Major for NOx and 99% are Major for VOC, Total Offsets Provided by Title V O&G Sources	2,437.87	5,759.69	2,614.16	358.36	738.40	738.40
Adding back in remaining 4% of Major Sources that are not Major for NOx and Remaining 1% of Major Sources that are not Major for VOC	67.72	38.79				
Total Emissions All O&G Sources (TPY) Which Should be Accounted for in Mitigation:	2,674.88	6,186.33	2,875.58	394.20	812.24	812.24

Total Kern County - 2035 Emissions from Stationary Source Equipment						
	NOx (TPY)	**VOC (TPY)**	**CO (TPY)**	**SOx (TPY)**	**PM10 (TPY)**	**PM2.5 (TPY)**
Total Emissions Title-v O&G Sources	2,625.04	5,475.26	4,077.92	524.93	1,170.88	1,170.88
Total Emissions Small O&G Sources (+10%)	262.5	547.53	407.79	52.49	117.09	117.09
Offset Ratios required by TV O&G Sources	1.5	1.50	1	1	1	1
Total Offsets Provided by Title V O&G Sources if All Sources Were Major Sources for Both NOx and VOC	3,937.56	8,212.89	4,077.92	524.93	1,170.88	1,170.88
Given 96% of Major Sources are Major for NOx and 99% are Major for VOC, Total Offsets Provided by Title V O&G Sources	3,780.06	8,130.76	4,077.92	524.93	1,170.88	1,170.88
Adding back in remaining 4% of Major Sources that are not Major for NOx and Remaining 1% of Major Sources that are not Major for VOC	105.0016	54.7526				
Total Emissions All O&G Sources (TPY) Which Should be Accounted for in Mitigation:	4,147.56	8,733.04	4,485.71	577.42	1,287.97	1,287.97

Therefore, the facility operations emissions tables have been revised to account for the emissions offsets as described above:

Facility operation accounting for required NSR offsets						
Year	**NOx**	**ROG**	**CO**	**SO2**	**PM10**	**PM2.5**
2012	2675	6186	2876	394	812	812
2015	2745	6308	2952	403	835	835
2016	2815	6429	3029	412	858	858
2017	2885	6550	3106	420	880	880
2018	2955	6671	3182	429	903	903
2019	3026	6793	3259	438	926	926
2020	3096	6914	3336	447	948	948
2021	3166	7035	3412	455	971	971
2022	3236	7157	3489	464	993	993
2023	3306	7278	3566	473	1016	1016
2024	3376	7399	3642	481	1039	1039
2025	3446	7520	3719	490	1061	1061
2026	3516	7642	3796	499	1084	1084
2027	3587	7763	3872	508	1107	1107
2028	3657	7884	3949	516	1129	1129
2029	3727	8005	4026	525	1152	1152
2030	3797	8127	4102	534	1175	1175
2031	3867	8248	4179	543	1197	1197
2032	3937	8369	4256	551	1220	1220
2033	4007	8490	4332	560	1243	1243
2034	4077	8612	4409	569	1265	1265
2035	4148	8733	4486	577	1288	1288

Subtracting these emissions from the total project emissions ensures sources are given credit for the existing mitigation required through NSR.

IV. Vera Methodology

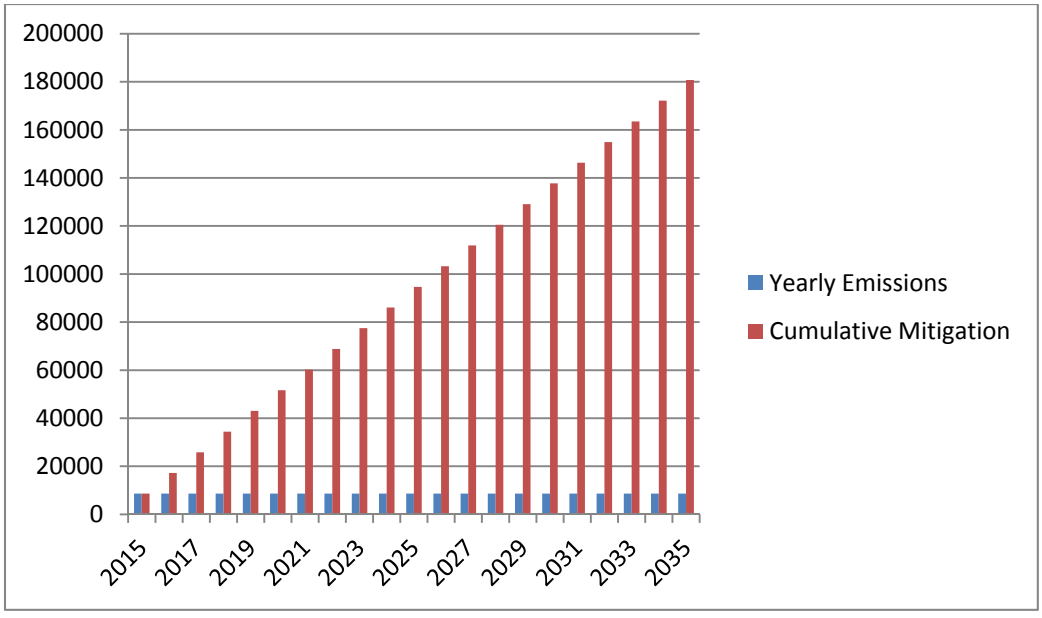
The draft EIR describes the currently proposed VERA. In this proposal it states that each year total yearly emissions from the project will be offset through the VERA. Below is an excerpt of this discussion,

> "The SJVAPCD 2014 Annual Report on the Indirect Source Review Program shows the cost currently as $6,974 per ton to implement projects. Based on this estimated cost, which will be adjusted for depth of well and equipment configuration, the mitigation fee will be range from $18,603 to $8,000, per well plus an administrative cost to the Air District to be determined which is up to 4%. The estimated amount generated every year for in mitigation fees to fund emission reduction projects ranges from $30 million to $14 million (based on an estimate of 1,800 permits year). The total fees collected by the OG-ERA over 21 years (again using the estimate of 1,800 permits per year) will range from $600 million to $280 million."

However, this is not typical of past District VERA agreements. Typically the yearly emissions for the project are quantified (tons/year), and these emissions are then offset through the VERA in a single year.

When the mitigation fee is paid, the District identifies projects which reduce the total project emissions (tons/year). Although the mitigation projects may be conducted in a single year, the mitigation from these projects is on-going and continues to reduce emissions for an indefinite period of time, thus creating a stream of emissions reduction.

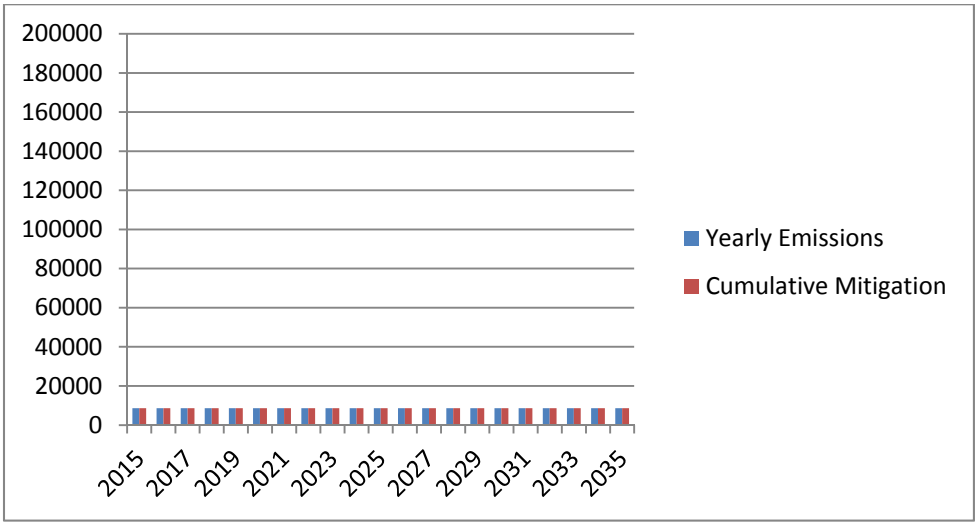
For example, an unpaved road which is paved in the first year with a reduction of 1 ton/year, will continue to achieve a reduction of 1 ton/year as long as it is in service. This emissions reduction is indefinite and therefore, the project emissions do not need to be continually mitigated each year. The following chart was created to illustrate the error in the proposed VERA agreement. The blue bars illustrate the average yearly project emissions, while the red bars represent the cumulative mitigation that will be achieved as time progresses through yearly mitigations of the project emissions.



As demonstrated, the proposed VERA significantly over mitigates project emissions. Instead of the above approach, past VERAs signed by the District appear to require mitigation of the project emissions by multiplying the yearly emissions (tons/year) for the project by the cost of mitigation ($/ton). Mitigations are then found which equal these to ensure that project emissions are fully mitigated. For example, using the current values in Table 4.3-32 of the draft report (included below), the average emissions for this project would be 2.36 tons/year - well. Therefore, using past VERA agreements as a template. The VERA agreement would be yearly emissions (tons per year per well x maximum number of wells authorized under the project) x Standard VERA Mitigation Fee (in this example it is $6,974) = total project mitigation. The final result for this O&G EIR would be equal to:

$$\left(2.36\frac{tons}{year-well}x\ 3{,}647\ wells\right)x\frac{\$6{,}974}{ton}=\$60{,}024{,}660\ total\ project\ mitigation$$

The new approach is illustrated below. As demonstrated, all emissions are still fully mitigated.



Examples where the District appears to have applied this type of approach can be found in the following projects:

- The Canyons Development Project brought before the Board on October 25, 2007
- Silver Creek Plaza Project brought before the Board on December 20, 2007
- Tesoro Viejo Specific Plan Development Project brought before the Board on December 20, 2012
- Pillsbury Estates Development Project brought before the Board on April 18, 2013

Governing Board agenda items for these project VERAs are included in Appendix D.

Mitigation Menu

In addition to the above corrections and methodology changes, ANT proposes that a mitigation menu be established. This mitigation menu would provide facilities with the option to reduce the Air Quality ERA per well fee by having the facility identify mitigations they have taken and allowing the facility to claim an ERA reduction associated with those mitigations.

Mitigation Option 1: Engine Replacement

Description of Mitigation

The current ARB model for determining offroad emissions for projects involving Oil and Gas Production has a regulatory reduction built in to the emission factors used to calculate the impact. By using Tier 4 engines and corresponding Tier 4 emission factors, mitigation of the offroad emissions would continue until the compliance deadline of calendar year 2027. Certain fleets would have the deadline extended until the calendar year 2029, which is the limit of the model.

This mitigation option evaluates the effects on project emissions and the emission reduction agreement for facilities which switch out existing engines for tier 4i or tier 4f alternatives. For the emission calculations, the following methodology was used:

- The engines used in the CEQA analysis were separated into 6 engine categories:
    - ≤ 75 hp
    - 75 < hp ≤ 120
    - 120 < to < 175
    - 175 ≤ hp ≤ 250
    - 250 < hp < 750
    - ≥ 750 hp
- The OFFROAD Model engine category used in the technical analysis to estimate emissions for each engine category was identified as follows:

≤ 75 hp	Industrial – Other General Industrial
75 < hp ≤ 120	Industrial – Other General Industrial
120 < hp < 175	Oil Drilling – Drilling Rig
175 ≤ hp ≤ 250	Construction and Mining – Cranes
250 < hp < 750	Oil Drilling – Drilling Rig
≥ 750 hp	Oil Drilling – Drilling Rig

- The percent of engine emissions associated with each of the 6 engine horsepower categories was identified for each well depth. Equipment/emissions used to calculate this percentage was taken from calendar year 2015.

- Next the percent of wells drilled in each well depth was determined for each year of the project.
- These two percentages were multiplied together. This provides the portion of wells drilled each year whose emissions are attributed to that particular engine horsepower category.
- The OFFROAD Model fleet average emissions for each horsepower category was then compared to the tier 4i and tier 4f values to calculate the percent reduction in switching to either a tier 4i or tier 4f engine. Equipment/emissions used to calculate this percentage was taken from calendar year 2015.
- Multiplying this percent reduction by the previous percentages then provides the overall reduction in changing out engines in that horsepower category to either tier 4i or tier 4f for each well depth, each year.

By comparing the Baseline (model output) value with the Tier 4i and Tier 4f emission factors, as described above, allows the percent reductions to be calculated. Summaries of these calculations are provided below for each engine horsepower category.

Post-Mitigation Emissions

The following tables summarize the post-mitigation emissions reductions for given engine sizes and Tier 4i/4f replacements.

Engines ≤ 75 hp:

Option 1: Replacing Current Engines in this Category with Tier 4i

Amount of Construction - Well Drilling Emissions Reduced in Changing ≤ 75 hp Engines to Tier 4i							
Year	NOX	ROG	CO	SOX	PM10	PM25	VERA Fee Reduction Per Well
2015	0.00	0.00	0.00	0.00	0.78	0.72	$6.87
2016	0.00	0.00	0.00	0.00	0.75	0.69	$6.80
2017	0.00	0.00	0.00	0.00	0.70	0.64	$6.43
2018	0.00	0.00	0.00	0.00	0.58	0.53	$5.53
2019	0.00	0.00	0.00	0.00	0.52	0.48	$4.73
2020	0.00	0.00	0.00	0.00	0.44	0.41	$4.15
2021	0.00	0.00	0.00	0.00	0.41	0.38	$3.91
2022	0.00	0.00	0.00	0.00	0.31	0.28	$3.20
2023	0.00	0.00	0.00	0.00	0.27	0.25	$2.93
2024	0.00	0.00	0.00	0.00	0.24	0.22	$2.72
2025	0.00	0.00	0.00	0.00	0.22	0.20	$2.54
2026	0.00	0.00	0.00	0.00	0.20	0.18	$1.96
2027	0.00	0.00	0.00	0.00	0.18	0.17	$1.84
2028	0.00	0.00	0.00	0.00	0.17	0.16	$1.74
2029	0.00	0.00	0.00	0.00	0.16	0.15	$1.69
2031	0.00	0.00	0.00	0.00	0.16	0.15	$1.69
2032	0.00	0.00	0.00	0.00	0.16	0.15	$1.69
2033	0.00	0.00	0.00	0.00	0.16	0.15	$1.70
2034	0.00	0.00	0.00	0.00	0.17	0.15	$1.70
2035	0.00	0.00	0.00	0.00	0.17	0.15	$1.70
						Average:	**$3.28**

Option 2: Replacing Current Engines in this Category with Tier 4f

Amount of Construction - Well Drilling Emissions Reduced in Changing ≤ 75 hp Engines to Tier 4f							
Year	NOX	ROG	CO	SOX	PM10	PM25	VERA Fee Reduction Per Well
2015	0.00	0.00	0.00	0.00	1.30	1.19	$11.74
2016	0.00	0.00	0.00	0.00	1.22	1.12	$11.12
2017	0.00	0.00	0.00	0.00	1.14	1.05	$10.51
2018	0.00	0.00	0.00	0.00	0.94	0.87	$9.04
2019	0.00	0.00	0.00	0.00	0.85	0.78	$7.74
2020	0.00	0.00	0.00	0.00	0.72	0.66	$6.79
2021	0.00	0.00	0.00	0.00	0.67	0.62	$6.38
2022	0.00	0.00	0.00	0.00	0.51	0.47	$5.23
2023	0.00	0.00	0.00	0.00	0.45	0.41	$4.79
2024	0.00	0.00	0.00	0.00	0.40	0.37	$4.44
2025	0.00	0.00	0.00	0.00	0.36	0.33	$4.15
2026	0.00	0.00	0.00	0.00	0.33	0.30	$3.20
2027	0.00	0.00	0.00	0.00	0.30	0.28	$3.01
2028	0.00	0.00	0.00	0.00	0.28	0.26	$2.84
2029	0.00	0.00	0.00	0.00	0.27	0.25	$2.77
2030	0.00	0.00	0.00	0.00	0.27	0.25	$2.77
2031	0.00	0.00	0.00	0.00	0.27	0.25	$2.77
2032	0.00	0.00	0.00	0.00	0.27	0.25	$2.77
2033	0.00	0.00	0.00	0.00	0.27	0.25	$2.77
2034	0.00	0.00	0.00	0.00	0.27	0.25	$2.77
2035	0.00	0.00	0.00	0.00	0.27	0.25	$2.77
						Average:	**$5.26**

Engines 75 < hp ≤ 120:

Option 1: Replacing Current Engines in this Category with Tier 4i

Amount of Construction - Well Drilling Emissions Reduced in Changing 75 < hp ≤ 120 Engines to Tier 4i							
Year	NOX	ROG	CO	SOX	PM10	PM25	VERA Fee Reduction Per Well
2015	55.63	5.37	0.00	0.00	7.55	6.94	$620.14
2016	53.02	5.13	0.00	0.00	7.08	6.52	$594.81
2017	50.11	4.87	0.00	0.00	6.61	6.08	$568.27
2018	43.20	4.22	0.00	0.00	5.48	5.04	$504.99
2019	39.85	3.94	0.00	0.00	4.95	4.56	$450.27
2020	33.21	3.54	0.00	0.00	4.19	3.85	$396.33
2021	31.95	3.45	0.00	0.00	3.89	3.58	$383.56
2022	24.19	2.89	0.00	0.00	2.94	2.71	$320.57
2023	22.29	2.78	0.00	0.00	2.60	2.40	$303.62
2024	19.88	2.66	0.00	0.00	2.31	2.13	$285.20
2025	18.54	2.58	0.00	0.00	2.08	1.91	$273.77
2026	17.67	2.55	0.00	0.00	1.90	1.75	$230.07
2027	16.91	2.52	0.00	0.00	1.75	1.61	$223.55
2028	15.75	2.49	0.00	0.00	1.61	1.49	$214.51
2029	15.22	2.43	0.00	0.00	1.56	1.43	$210.17
2030	15.25	2.43	0.00	0.00	1.56	1.44	$210.07
2031	15.28	2.44	0.00	0.00	1.56	1.44	$210.23
2032	15.29	2.44	0.00	0.00	1.56	1.44	$210.10
2033	15.30	2.44	0.00	0.00	1.56	1.44	$210.52
2034	15.32	2.44	0.00	0.00	1.57	1.44	$210.39
2035	15.35	2.45	0.00	0.00	1.57	1.45	$210.28
						Average:	**$325.78**

Option 2: Replacing Current Engines in this Category with Tier 4f

Amount of Construction - Well Drilling Emissions Reduced in Changing 75 < hp ≤ 120 Engines to Tier 4f							
Year	NOX	ROG	CO	SOX	PM10	PM25	VERA Fee Reduction Per Well
2015	86.35	5.37	0.00	0.00	7.55	6.94	$898.11
2016	82.30	5.13	0.00	0.00	7.08	6.52	$861.82
2017	77.79	4.87	0.00	0.00	6.61	6.08	$823.66
2018	67.05	4.22	0.00	0.00	5.48	5.04	$732.81
2019	61.86	3.94	0.00	0.00	4.95	4.56	$654.76
2020	51.56	3.54	0.00	0.00	4.19	3.85	$575.64
2021	49.60	3.45	0.00	0.00	3.89	3.58	$557.51
2022	37.55	2.89	0.00	0.00	2.94	2.71	$465.49
2023	34.60	2.78	0.00	0.00	2.60	2.40	$441.02
2024	30.86	2.66	0.00	0.00	2.31	2.13	$413.90
2025	28.78	2.58	0.00	0.00	2.08	1.91	$397.38
2026	27.42	2.55	0.00	0.00	1.90	1.75	$334.07
2027	26.25	2.52	0.00	0.00	1.75	1.61	$324.61
2028	24.45	2.49	0.00	0.00	1.61	1.49	$311.20
2029	23.63	2.43	0.00	0.00	1.56	1.43	$304.89
2030	23.67	2.43	0.00	0.00	1.56	1.44	$304.74
2031	23.71	2.44	0.00	0.00	1.56	1.44	$304.97
2032	23.73	2.44	0.00	0.00	1.56	1.44	$304.78
2033	23.74	2.44	0.00	0.00	1.56	1.44	$305.40
2034	23.79	2.44	0.00	0.00	1.57	1.44	$305.20
2035	23.83	2.45	0.00	0.00	1.57	1.45	$305.05
						Average:	**$472.72**

Engines 120 < hp < 175:

Option 1: Replacing Current Engines in this Category with Tier 4i

Amount of Construction - Well Drilling Emissions Reduced in Changing 120<hp<175 hp Engines to Tier 4i							
Year	NOX	ROG	CO	SOX	PM10	PM25	VERA Fee Reduction Per Well
2015	35.67	2.78	0.00	0.00	3.17	2.92	$412.13
2016	34.00	2.66	0.00	0.00	2.98	2.74	$396.28
2017	32.15	2.52	0.00	0.00	2.78	2.56	$379.83
2018	27.73	2.19	0.00	0.00	2.30	2.12	$340.34
2019	25.57	2.04	0.00	0.00	2.08	1.91	$302.19
2020	21.33	1.84	0.00	0.00	1.76	1.62	$268.44
2021	20.52	1.79	0.00	0.00	1.64	1.51	$260.53
2022	15.56	1.50	0.00	0.00	1.24	1.14	$221.41
2023	14.35	1.44	0.00	0.00	1.10	1.01	$210.87
2024	12.81	1.38	0.00	0.00	0.97	0.90	$199.49
2025	11.96	1.34	0.00	0.00	0.88	0.81	$192.45
2026	11.36	1.32	0.00	0.00	0.80	0.74	$158.73
2027	10.88	1.31	0.00	0.00	0.74	0.68	$154.70
2028	10.14	1.29	0.00	0.00	0.68	0.63	$149.08
2029	9.81	1.26	0.00	0.00	0.66	0.60	$146.41
2030	9.82	1.26	0.00	0.00	0.66	0.60	$146.32
2031	9.84	1.26	0.00	0.00	0.66	0.61	$146.46
2032	9.85	1.26	0.00	0.00	0.66	0.61	$146.36
2033	9.85	1.27	0.00	0.00	0.66	0.61	$146.72
2034	9.87	1.27	0.00	0.00	0.66	0.61	$146.60
2035	9.89	1.27	0.00	0.00	0.66	0.61	$146.51
						Average:	**$222.47**

Option 2: Replacing Current Engines in this Category with Tier 4f

Amount of Construction - Well Drilling Emissions Reduced in Changing 120 < hp < 175 Engines to Tier 4f							
Year	NOX	ROG	CO	SOX	PM10	PM25	VERA Fee Reduction Per Well
2015	52.45	2.78	0.00	0.00	3.17	2.92	$578.19
2016	49.99	2.66	0.00	0.00	2.98	2.74	$556.11
2017	47.26	2.52	0.00	0.00	2.78	2.56	$533.15
2018	40.76	2.19	0.00	0.00	2.30	2.12	$478.09
2019	37.59	2.04	0.00	0.00	2.08	1.91	$425.20
2020	31.36	1.84	0.00	0.00	1.76	1.62	$377.43
2021	30.17	1.79	0.00	0.00	1.64	1.51	$366.46
2022	22.88	1.50	0.00	0.00	1.24	1.14	$311.24
2023	21.09	1.44	0.00	0.00	1.10	1.01	$296.46
2024	18.84	1.38	0.00	0.00	0.97	0.90	$280.28
2025	17.58	1.34	0.00	0.00	0.88	0.81	$270.41
2026	16.71	1.32	0.00	0.00	0.80	0.74	$223.06
2027	16.00	1.31	0.00	0.00	0.74	0.68	$217.37
2028	14.91	1.29	0.00	0.00	0.68	0.63	$209.34
2029	14.41	1.26	0.00	0.00	0.66	0.60	$205.57
2030	14.44	1.26	0.00	0.00	0.66	0.60	$205.45
2031	14.46	1.26	0.00	0.00	0.66	0.61	$205.65
2032	14.47	1.26	0.00	0.00	0.66	0.61	$205.50
2033	14.48	1.27	0.00	0.00	0.66	0.61	$206.01
2034	14.51	1.27	0.00	0.00	0.66	0.61	$205.85
2035	14.54	1.27	0.00	0.00	0.66	0.61	$205.72
						Average:	**$312.50**

Engines 175 ≤ hp ≤ 250:

Option 1: Replacing Current Engines in this Category with Tier 4i

Amount of Construction - Well Drilling Emissions Reduced in Changing 175 ≤ hp ≤ 250 Engines to Tier 4i							
Year	NOX	ROG	CO	SOX	PM10	PM25	VERA Fee Reduction Per Well
2015	7.31	0.36	0.00	0.00	0.40	0.37	$55.13
2016	6.97	0.35	0.00	0.00	0.38	0.35	$52.56
2017	6.58	0.33	0.00	0.00	0.35	0.33	$49.75
2018	5.67	0.29	0.00	0.00	0.29	0.27	$43.21
2019	5.23	0.27	0.00	0.00	0.26	0.24	$39.45
2020	4.35	0.24	0.00	0.00	0.22	0.21	$33.46
2021	4.19	0.23	0.00	0.00	0.21	0.19	$32.19
2022	3.16	0.20	0.00	0.00	0.16	0.14	$25.16
2023	2.90	0.19	0.00	0.00	0.14	0.13	$23.39
2024	2.58	0.18	0.00	0.00	0.12	0.11	$21.26
2025	2.41	0.17	0.00	0.00	0.11	0.10	$20.02
2026	2.31	0.17	0.00	0.00	0.10	0.09	$18.30
2027	2.20	0.17	0.00	0.00	0.09	0.09	$17.60
2028	2.05	0.17	0.00	0.00	0.09	0.08	$16.56
2029	1.98	0.16	0.00	0.00	0.08	0.08	$16.07
2030	1.98	0.16	0.00	0.00	0.08	0.08	$16.07
2031	1.99	0.16	0.00	0.00	0.08	0.08	$16.07
2032	1.99	0.16	0.00	0.00	0.08	0.08	$16.07
2033	1.99	0.16	0.00	0.00	0.08	0.08	$16.07
2034	1.99	0.17	0.00	0.00	0.08	0.08	$16.07
2035	2.00	0.17	0.00	0.00	0.08	0.08	$16.07
						Average:	**$26.69**

Option 2: Replacing Current Engines in this Category with Tier 4f

Amount of Construction - Well Drilling Emissions Reduced in Changing 175 ≤ hp ≤ 250 Engines to Tier 4f							
Year	NOX	ROG	CO	SOX	PM10	PM25	VERA Fee Reduction Per Well
2015	8.76	0.36	0.00	0.00	0.40	0.37	$64.99
2016	8.35	0.35	0.00	0.00	0.38	0.35	$61.97
2017	7.89	0.33	0.00	0.00	0.35	0.33	$58.66
2018	6.79	0.29	0.00	0.00	0.29	0.27	$50.97
2019	6.27	0.27	0.00	0.00	0.26	0.24	$46.53
2020	5.21	0.24	0.00	0.00	0.22	0.21	$39.45
2021	5.01	0.23	0.00	0.00	0.21	0.19	$37.96
2022	3.78	0.20	0.00	0.00	0.16	0.14	$29.65
2023	3.48	0.19	0.00	0.00	0.14	0.13	$27.56
2024	3.09	0.18	0.00	0.00	0.12	0.11	$25.04
2025	2.88	0.17	0.00	0.00	0.11	0.10	$23.58
2026	2.76	0.17	0.00	0.00	0.10	0.09	$21.55
2027	2.64	0.17	0.00	0.00	0.09	0.09	$20.73
2028	2.46	0.17	0.00	0.00	0.09	0.08	$19.49
2029	2.37	0.16	0.00	0.00	0.08	0.08	$18.91
2030	2.38	0.16	0.00	0.00	0.08	0.08	$18.91
2031	2.38	0.16	0.00	0.00	0.08	0.08	$18.91
2032	2.38	0.16	0.00	0.00	0.08	0.08	$18.91
2033	2.38	0.16	0.00	0.00	0.08	0.08	$18.92
2034	2.39	0.17	0.00	0.00	0.08	0.08	$18.91
2035	2.39	0.17	0.00	0.00	0.08	0.08	$18.91
						Average:	**$31.45**

Engines 250 < hp < 750:

Option 1: Replacing Current Engines in this Category with Tier 4i

Amount of Construction - Well Drilling Emissions Reduced in Changing 250<hp<750 Engines to Tier 4i							
Year	NOX	ROG	CO	SOX	PM10	PM25	VERA Fee Reduction Per Well
2015	296.35	9.20	0.00	0.00	12.83	11.81	$2,273.32
2016	282.32	8.79	0.00	0.00	12.04	11.08	$2,166.22
2017	266.67	8.34	0.00	0.00	11.23	10.33	$2,048.56
2018	229.49	7.23	0.00	0.00	9.30	8.55	$1,775.18
2019	211.98	6.77	0.00	0.00	8.42	7.75	$1,624.14
2020	176.24	6.07	0.00	0.00	7.11	6.54	$1,370.28
2021	169.48	5.90	0.00	0.00	6.60	6.07	$1,317.92
2022	127.64	4.95	0.00	0.00	4.97	4.57	$1,020.40
2023	117.40	4.75	0.00	0.00	4.39	4.04	$945.62
2024	104.41	4.55	0.00	0.00	3.89	3.57	$855.14
2025	97.19	4.40	0.00	0.00	3.49	3.21	$802.79
2026	93.25	4.37	0.00	0.00	3.22	2.96	$740.98
2027	89.19	4.32	0.00	0.00	2.96	2.73	$711.54
2028	82.92	4.26	0.00	0.00	2.73	2.51	$666.98
2029	80.10	4.15	0.00	0.00	2.63	2.42	$646.41
2030	80.23	4.16	0.00	0.00	2.63	2.42	$646.45
2031	80.38	4.17	0.00	0.00	2.64	2.43	$646.50
2032	80.44	4.17	0.00	0.00	2.64	2.43	$646.38
2033	80.47	4.17	0.00	0.00	2.64	2.43	$646.69
2034	80.62	4.18	0.00	0.00	2.65	2.44	$646.53
2035	80.79	4.19	0.00	0.00	2.65	2.44	$646.54
						Average:	**$1,087.84**

Option 2: Replacing Current Engines in this Category with Tier 4f

Amount of Construction - Well Drilling Emissions Reduced in Changing 250<hp<750 Engines to Tier 4f							
Year	NOX	ROG	CO	SOX	PM10	PM25	VERA Fee Reduction Per Well
2015	401.97	9.20	0.00	0.00	12.83	11.81	$3,026.95
2016	382.94	8.79	0.00	0.00	12.04	11.08	$2,884.72
2017	361.71	8.34	0.00	0.00	11.23	10.33	$2,728.28
2018	311.28	7.23	0.00	0.00	9.30	8.55	$2,364.92
2019	287.53	6.77	0.00	0.00	8.42	7.75	$2,164.24
2020	239.05	6.07	0.00	0.00	7.11	6.54	$1,824.76
2021	229.89	5.90	0.00	0.00	6.60	6.07	$1,755.43
2022	173.13	4.95	0.00	0.00	4.97	4.57	$1,358.10
2023	159.24	4.75	0.00	0.00	4.39	4.04	$1,258.56
2024	141.62	4.55	0.00	0.00	3.89	3.57	$1,137.51
2025	131.82	4.40	0.00	0.00	3.49	3.21	$1,067.81
2026	126.49	4.37	0.00	0.00	3.22	2.96	$985.63
2027	120.97	4.32	0.00	0.00	2.96	2.73	$946.41
2028	112.47	4.26	0.00	0.00	2.73	2.51	$886.70
2029	108.65	4.15	0.00	0.00	2.63	2.42	$859.29
2030	108.82	4.16	0.00	0.00	2.63	2.42	$859.34
2031	109.02	4.17	0.00	0.00	2.64	2.43	$859.40
2032	109.11	4.17	0.00	0.00	2.64	2.43	$859.24
2033	109.15	4.17	0.00	0.00	2.64	2.43	$859.66
2034	109.35	4.18	0.00	0.00	2.65	2.44	$859.45
2035	109.58	4.19	0.00	0.00	2.65	2.44	$859.46
						Average:	**$1,447.90**

Engines ≥ 750 hp:

Option 1: Replacing Current Engines in this Category with Tier 4i

Amount of Construction - Well Drilling Emissions Reduced in Changing ≥ 750 hp Engines to Tier 4i							
Year	NOX	ROG	CO	SOX	PM10	PM25	VERA Fee Reduction Per Well
2015	9.82	0.00	0.00	0.00	0.31	0.28	$1,773.97
2016	9.67	0.00	0.00	0.00	0.30	0.28	$1,746.40
2017	9.57	0.00	0.00	0.00	0.29	0.27	$1,729.29
2018	9.26	0.00	0.00	0.00	0.28	0.25	$1,672.32
2019	7.84	0.00	0.00	0.00	0.21	0.19	$1,411.92
2020	7.71	0.00	0.00	0.00	0.20	0.18	$1,387.50
2021	7.62	0.00	0.00	0.00	0.19	0.18	$1,372.06
2022	7.51	0.00	0.00	0.00	0.19	0.17	$1,352.20
2023	7.44	0.00	0.00	0.00	0.18	0.17	$1,338.19
2024	7.49	0.00	0.00	0.00	0.18	0.17	$1,337.09
2025	7.48	0.00	0.00	0.00	0.18	0.16	$1,331.84
2026	5.37	0.00	0.00	0.00	0.11	0.10	$947.67
2027	5.35	0.00	0.00	0.00	0.10	0.10	$942.70
2028	5.34	0.00	0.00	0.00	0.10	0.09	$940.81
2029	5.34	0.00	0.00	0.00	0.10	0.09	$939.69
2030	5.33	0.00	0.00	0.00	0.10	0.09	$938.30
2031	5.35	0.00	0.00	0.00	0.10	0.09	$940.57
2032	5.34	0.00	0.00	0.00	0.10	0.09	$939.18
2033	5.40	0.00	0.00	0.00	0.10	0.09	$944.09
2034	5.39	0.00	0.00	0.00	0.10	0.09	$942.70
2035	5.39	0.00	0.00	0.00	0.10	0.09	$941.31
						Average:	**$1,231.89**

Option 2: Replacing Current Engines in this Category with Tier 4f

Amount of Construction - Well Drilling Emissions Reduced in Changing ≥ 750 hp Engines to Tier 4f							
Year	NOX	ROG	CO	SOX	PM10	PM25	VERA Fee Reduction Per Well
2015	9.82	0.39	0.00	0.00	0.45	0.41	$1,866.10
2016	9.67	0.38	0.00	0.00	0.44	0.40	$1,836.56
2017	9.57	0.37	0.00	0.00	0.43	0.39	$1,818.11
2018	9.26	0.36	0.00	0.00	0.40	0.37	$1,756.75
2019	7.84	0.27	0.00	0.00	0.30	0.28	$1,475.67
2020	7.71	0.26	0.00	0.00	0.29	0.27	$1,449.54
2021	7.62	0.26	0.00	0.00	0.28	0.26	$1,433.53
2022	7.51	0.26	0.00	0.00	0.27	0.25	$1,412.72
2023	7.44	0.26	0.00	0.00	0.26	0.24	$1,398.21
2024	7.49	0.27	0.00	0.00	0.26	0.24	$1,397.52
2025	7.48	0.27	0.00	0.00	0.26	0.24	$1,392.37
2026	5.37	0.20	0.00	0.00	0.15	0.14	$989.95
2027	5.35	0.20	0.00	0.00	0.15	0.14	$985.23
2028	5.34	0.20	0.00	0.00	0.15	0.14	$983.82
2029	5.34	0.21	0.00	0.00	0.15	0.14	$983.13
2030	5.33	0.21	0.00	0.00	0.15	0.14	$981.67
2031	5.35	0.21	0.00	0.00	0.15	0.14	$984.04
2032	5.34	0.21	0.00	0.00	0.15	0.14	$982.59
2033	5.40	0.21	0.00	0.00	0.15	0.14	$987.73
2034	5.39	0.21	0.00	0.00	0.15	0.14	$986.27
2035	5.39	0.21	0.00	0.00	0.15	0.14	$984.83
						Average:	**$1,289.82**

Summary of Mitigation Menu Option

If all engines within the given horsepower range are replaced with either Tier 4i or 4f alternatives, the facility may claim the following reduction per well. Detailed calculations are provided in Appendix E.

≤ 75 hp	
Tier 4i	**Tier 4f**
$3.22	$5.26
75 < hp ≤ 120	
Tier 4i	**Tier 4f**
$325.78	$472.72
120 < hp < 175	
Tier 4i	**Tier 4f**
$222.47	$312.50
175 ≤ hp ≤ 250	
Tier 4i	**Tier 4f**
$26.69	$31.45
250 < hp < 750	
Tier 4i	**Tier 4f**
$1,087.84	$1,447.90
hp ≥ 750	
Tier 4i	**Tier 4f**
$1,231.89	$1,289.82

Mitigation Option 2: Carpool/Vanpool

The Draft EIR includes emissions from Routine Business Travel as shown in Table 4.3-26. The data in this table is derived from the Routine Business Travel emissions generated in the Air Quality Study for Petroleum Production Activities prepared by Vector Environmental. A footnote to Table 6.1 in this study notes that emissions for Routine Business Travel assume average vehicle occupancy of 1.35, with 36% of employers required to participate in District Rule 9410 eTRIP programs. The 1.35 average vehicle occupancy, or AVO, originates in the SJVUAPCD Rule 9410 Final Staff Report. This report gives credit to Rule 9410 for increasing AVO from 1.1 to 1.35 for employers with at least 100 employees. The 1.35 AVO factor accounts for the result of all measures used in an eTRIP program including carpools and other alternate transportation methods such as vanpools.

This mitigation option evaluates the effects on project emissions and the emission reduction agreement for facilities which increase carpool/vanpool participation thus increasing their AVO factor. For the emission calculations, the following methodology was used:

- Emissions for Routine Business Travel at the existing AVO of 1.35 were identified
- These emissions were multiplied by 1.35 and then divided by alternative AVO factors in order to calculate the emissions associated with Routine Business Travel at higher AVO factors.

Summaries of these calculations are provided below for each alternative AVO factor.

AVO of 1.5:

Incremental Emissions Reduction at AVO 1.50 (TPY/well)									
Drilled Wells	Year	NOx	ROG	CO	SO2	PM10	PM2.5	Total VERA Contribution	VERA Fee Reduction
3966	2015	0.000090	0.000022	0.000222	0.000001	0.000018	0.000006	0.000130	$0.91
3970	2016	0.000154	0.000036	0.000373	0.000001	0.000034	0.000011	0.000224	$1.56
3976	2017	0.000201	0.000046	0.000480	0.000002	0.000049	0.000017	0.000296	$2.06
3982	2018	0.000233	0.000052	0.000555	0.000002	0.000064	0.000021	0.000349	$2.44
3988	2019	0.000253	0.000058	0.000617	0.000003	0.000078	0.000026	0.000390	$2.72
3994	2020	0.000250	0.000065	0.000682	0.000003	0.000092	0.000031	0.000406	$2.83
4000	2021	0.000214	0.000071	0.000746	0.000004	0.000105	0.000035	0.000389	$2.71
4006	2022	0.000184	0.000077	0.000806	0.000004	0.000117	0.000039	0.000379	$2.64
4012	2023	0.000180	0.000081	0.000851	0.000005	0.000129	0.000043	0.000390	$2.72
4018	2024	0.000194	0.000085	0.000895	0.000005	0.000141	0.000047	0.000420	$2.93
4024	2025	0.000209	0.000090	0.000947	0.000006	0.000152	0.000051	0.000451	$3.14
4030	2026	0.000223	0.000094	0.000998	0.000006	0.000163	0.000055	0.000480	$3.35
4036	2027	0.000237	0.000099	0.001048	0.000006	0.000173	0.000058	0.000509	$3.55
4042	2028	0.000250	0.000103	0.001097	0.000007	0.000184	0.000062	0.000537	$3.74
4048	2029	0.000263	0.000107	0.001142	0.000007	0.000193	0.000065	0.000563	$3.92
4054	2030	0.000275	0.000110	0.001188	0.000008	0.000203	0.000068	0.000588	$4.10
4060	2031	0.000287	0.000114	0.001236	0.000008	0.000212	0.000071	0.000613	$4.28
4066	2032	0.000298	0.000118	0.001283	0.000008	0.000221	0.000075	0.000638	$4.45
4071	2033	0.000310	0.000122	0.001329	0.000008	0.000230	0.000078	0.000662	$4.62
4077	2034	0.000321	0.000126	0.001373	0.000009	0.000239	0.000080	0.000686	$4.78
4083	2035	0.000332	0.000129	0.001415	0.000009	0.000247	0.000083	0.000709	$4.94
								Average:	$3.26

AVO at 1.75:

Incremental Emissions Reduction at AVO 1.75 (TPY/well)									
Drilled Wells	Year	NOx	ROG	CO	SO2	PM10	PM2.5	Total VERA Contribution	VERA Fee Reduction
3966	2015	0.000207	0.000050	0.000507	0.000001	0.000041	0.000014	0.000298	$2.08
3970	2016	0.000351	0.000082	0.000853	0.000003	0.000078	0.000026	0.000511	$3.56
3976	2017	0.000459	0.000104	0.001097	0.000004	0.000113	0.000038	0.000676	$4.72
3982	2018	0.000532	0.000120	0.001268	0.000005	0.000147	0.000049	0.000798	$5.57
3988	2019	0.000579	0.000133	0.001410	0.000007	0.000179	0.000060	0.000891	$6.21
3994	2020	0.000571	0.000148	0.001559	0.000008	0.000210	0.000070	0.000929	$6.48
4000	2021	0.000488	0.000162	0.001706	0.000009	0.000240	0.000080	0.000890	$6.21
4006	2022	0.000421	0.000177	0.001842	0.000010	0.000268	0.000090	0.000866	$6.04
4012	2023	0.000410	0.000185	0.001945	0.000011	0.000295	0.000099	0.000891	$6.21
4018	2024	0.000444	0.000194	0.002047	0.000012	0.000322	0.000108	0.000960	$6.69
4024	2025	0.000478	0.000205	0.002164	0.000013	0.000347	0.000116	0.001030	$7.18
4030	2026	0.000510	0.000215	0.002282	0.000014	0.000372	0.000125	0.001098	$7.66
4036	2027	0.000542	0.000225	0.002396	0.000015	0.000396	0.000133	0.001163	$8.11
4042	2028	0.000572	0.000235	0.002506	0.000015	0.000420	0.000141	0.001226	$8.55
4048	2029	0.000600	0.000244	0.002609	0.000016	0.000442	0.000149	0.001286	$8.97
4054	2030	0.000628	0.000252	0.002716	0.000017	0.000464	0.000156	0.001345	$9.38
4060	2031	0.000656	0.000261	0.002825	0.000018	0.000485	0.000163	0.001402	$9.78
4066	2032	0.000682	0.000270	0.002931	0.000019	0.000506	0.000170	0.001458	$10.17
4071	2033	0.000709	0.000279	0.003038	0.000019	0.000526	0.000177	0.001514	$10.56
4077	2034	0.000735	0.000287	0.003138	0.000020	0.000546	0.000184	0.001568	$10.93
4083	2035	0.000760	0.000295	0.003234	0.000021	0.000565	0.000190	0.001620	$11.30
								Average:	$7.45

AVO at 2.0:

Incremental Emissions Reduction at AVO 2.0 (TPY/well)									
Drilled Wells	Year	NOx	ROG	CO	SO2	PM10	PM2.5	Total VERA Contribution	VERA Fee Reduction
3966	2015	0.000294	0.000071	0.000720	0.000002	0.000059	0.000021	0.000423	$2.95
3970	2016	0.000499	0.000116	0.001213	0.000004	0.000111	0.000037	0.000726	$5.07
3976	2017	0.000653	0.000148	0.001559	0.000006	0.000161	0.000054	0.000962	$6.71
3982	2018	0.000756	0.000170	0.001804	0.000008	0.000209	0.000070	0.001135	$7.92
3988	2019	0.000823	0.000189	0.002005	0.000009	0.000255	0.000085	0.001267	$8.84
3994	2020	0.000813	0.000210	0.002216	0.000011	0.000299	0.000100	0.001321	$9.21
4000	2021	0.000694	0.000231	0.002426	0.000013	0.000341	0.000114	0.001265	$8.82
4006	2022	0.000599	0.000251	0.002619	0.000014	0.000381	0.000127	0.001231	$8.59
4012	2023	0.000583	0.000264	0.002766	0.000016	0.000420	0.000140	0.001267	$8.84
4018	2024	0.000631	0.000276	0.002910	0.000017	0.000457	0.000153	0.001364	$9.52
4024	2025	0.000679	0.000291	0.003077	0.000018	0.000494	0.000166	0.001464	$10.21
4030	2026	0.000726	0.000306	0.003244	0.000020	0.000529	0.000178	0.001561	$10.89
4036	2027	0.000770	0.000320	0.003407	0.000021	0.000563	0.000189	0.001654	$11.54
4042	2028	0.000813	0.000334	0.003564	0.000022	0.000597	0.000200	0.001744	$12.16
4048	2029	0.000854	0.000347	0.003710	0.000023	0.000629	0.000211	0.001829	$12.75
4054	2030	0.000893	0.000359	0.003862	0.000024	0.000660	0.000222	0.001912	$13.33
4060	2031	0.000932	0.000372	0.004017	0.000025	0.000690	0.000232	0.001994	$13.90
4066	2032	0.000970	0.000384	0.004168	0.000027	0.000720	0.000242	0.002073	$14.46
4071	2033	0.001008	0.000396	0.004319	0.000028	0.000748	0.000252	0.002152	$15.01
4077	2034	0.001045	0.000409	0.004461	0.000029	0.000776	0.000261	0.002229	$15.55
4083	2035	0.001081	0.000420	0.004598	0.000030	0.000803	0.000271	0.002304	$16.07
								Average:	$10.59

AVO at 2.25:

Incremental Emissions Reduction at AVO 2.25 (TPY/well)									
Drilled Wells	Year	NOx	ROG	CO	SO2	PM10	PM2.5	Total VERA Contribution	VERA Fee Reduction
3966	2015	0.000362	0.000087	0.000887	0.000003	0.000072	0.000025	0.000521	$3.63
3970	2016	0.000615	0.000143	0.001493	0.000005	0.000136	0.000046	0.000894	$6.24
3976	2017	0.000804	0.000182	0.001919	0.000007	0.000198	0.000066	0.001184	$8.26
3982	2018	0.000931	0.000209	0.002220	0.000010	0.000257	0.000086	0.001397	$9.74
3988	2019	0.001013	0.000233	0.002468	0.000012	0.000313	0.000105	0.001559	$10.87
3994	2020	0.001000	0.000258	0.002727	0.000014	0.000367	0.000123	0.001626	$11.34
4000	2021	0.000854	0.000284	0.002986	0.000015	0.000419	0.000140	0.001557	$10.86
4006	2022	0.000738	0.000309	0.003223	0.000017	0.000469	0.000157	0.001515	$10.57
4012	2023	0.000718	0.000324	0.003404	0.000019	0.000517	0.000173	0.001559	$10.87
4018	2024	0.000776	0.000340	0.003582	0.000021	0.000563	0.000188	0.001679	$11.71
4024	2025	0.000836	0.000359	0.003787	0.000023	0.000608	0.000204	0.001802	$12.57
4030	2026	0.000893	0.000377	0.003993	0.000024	0.000652	0.000219	0.001921	$13.40
4036	2027	0.000948	0.000394	0.004193	0.000026	0.000693	0.000233	0.002036	$14.20
4042	2028	0.001001	0.000411	0.004386	0.000027	0.000734	0.000247	0.002146	$14.97
4048	2029	0.001051	0.000426	0.004566	0.000029	0.000774	0.000260	0.002251	$15.70
4054	2030	0.001099	0.000442	0.004753	0.000030	0.000812	0.000273	0.002353	$16.41
4060	2031	0.001147	0.000457	0.004944	0.000031	0.000849	0.000286	0.002454	$17.11
4066	2032	0.001194	0.000472	0.005130	0.000033	0.000886	0.000298	0.002552	$17.80
4071	2033	0.001240	0.000488	0.005316	0.000034	0.000921	0.000310	0.002649	$18.47
4077	2034	0.001286	0.000503	0.005491	0.000035	0.000955	0.000322	0.002744	$19.14
4083	2035	0.001330	0.000517	0.005659	0.000036	0.000989	0.000333	0.002836	$19.78
								Average:	$13.03

AVO at 2.5:

Incremental Emissions Reduction at AVO 2.5 (TPY/well)									
Drilled Wells	Year	NOx	ROG	CO	SO2	PM10	PM2.5	Total VERA Contribution	VERA Fee Reduction
3966	2015	0.000416	0.000100	0.001020	0.000003	0.000083	0.000029	0.000599	$4.18
3970	2016	0.000707	0.000165	0.001717	0.000006	0.000157	0.000053	0.001028	$7.17
3976	2017	0.000924	0.000210	0.002207	0.000008	0.000227	0.000076	0.001361	$9.49
3982	2018	0.001071	0.000241	0.002553	0.000011	0.000295	0.000099	0.001607	$11.20
3988	2019	0.001165	0.000268	0.002838	0.000013	0.000360	0.000121	0.001793	$12.51
3994	2020	0.001150	0.000297	0.003137	0.000016	0.000423	0.000142	0.001870	$13.04
4000	2021	0.000982	0.000326	0.003434	0.000018	0.000482	0.000161	0.001791	$12.49
4006	2022	0.000848	0.000355	0.003707	0.000020	0.000539	0.000180	0.001743	$12.15
4012	2023	0.000826	0.000373	0.003915	0.000022	0.000594	0.000199	0.001793	$12.51
4018	2024	0.000893	0.000391	0.004119	0.000024	0.000647	0.000217	0.001931	$13.47
4024	2025	0.000961	0.000413	0.004355	0.000026	0.000699	0.000234	0.002073	$14.45
4030	2026	0.001027	0.000433	0.004592	0.000028	0.000749	0.000252	0.002210	$15.41
4036	2027	0.001090	0.000453	0.004822	0.000029	0.000797	0.000268	0.002341	$16.33
4042	2028	0.001151	0.000473	0.005044	0.000031	0.000845	0.000284	0.002468	$17.21
4048	2029	0.001208	0.000490	0.005251	0.000033	0.000890	0.000299	0.002588	$18.05
4054	2030	0.001264	0.000508	0.005466	0.000035	0.000934	0.000314	0.002706	$18.87
4060	2031	0.001320	0.000526	0.005685	0.000036	0.000976	0.000329	0.002822	$19.68
4066	2032	0.001373	0.000543	0.005900	0.000038	0.001018	0.000343	0.002935	$20.47
4071	2033	0.001426	0.000561	0.006113	0.000039	0.001059	0.000357	0.003046	$21.25
4077	2034	0.001478	0.000578	0.006315	0.000040	0.001099	0.000370	0.003155	$22.01
4083	2035	0.001529	0.000594	0.006508	0.000042	0.001137	0.000383	0.003261	$22.74
								Average:	$14.98

AVO at 2.75:

Incremental Emissions Reduction at AVO 2.75 (TPY/well)									
Drilled Wells	Year	NOx	ROG	CO	SO2	PM10	PM2.5	Total VERA Contribution	VERA Fee Reduction
3966	2015	0.000461	0.000111	0.001128	0.000003	0.000092	0.000032	0.000663	$4.63
3970	2016	0.000782	0.000182	0.001900	0.000006	0.000173	0.000058	0.001138	$7.94
3976	2017	0.001023	0.000232	0.002443	0.000009	0.000251	0.000084	0.001507	$10.51
3982	2018	0.001185	0.000266	0.002825	0.000012	0.000327	0.000109	0.001778	$12.40
3988	2019	0.001289	0.000296	0.003141	0.000015	0.000399	0.000133	0.001985	$13.84
3994	2020	0.001273	0.000329	0.003471	0.000017	0.000468	0.000157	0.002069	$14.43
4000	2021	0.001087	0.000361	0.003800	0.000020	0.000534	0.000179	0.001982	$13.82
4006	2022	0.000939	0.000393	0.004102	0.000022	0.000597	0.000199	0.001928	$13.45
4012	2023	0.000914	0.000413	0.004332	0.000024	0.000658	0.000220	0.001984	$13.84
4018	2024	0.000988	0.000433	0.004559	0.000026	0.000716	0.000240	0.002137	$14.90
4024	2025	0.001064	0.000457	0.004820	0.000029	0.000774	0.000259	0.002294	$16.00
4030	2026	0.001137	0.000479	0.005082	0.000031	0.000829	0.000278	0.002445	$17.05
4036	2027	0.001207	0.000502	0.005336	0.000032	0.000883	0.000297	0.002591	$18.07
4042	2028	0.001273	0.000523	0.005582	0.000034	0.000935	0.000314	0.002731	$19.05
4048	2029	0.001337	0.000543	0.005812	0.000037	0.000985	0.000331	0.002865	$19.98
4054	2030	0.001399	0.000562	0.006049	0.000038	0.001034	0.000348	0.002995	$20.89
4060	2031	0.001460	0.000582	0.006292	0.000040	0.001081	0.000364	0.003123	$21.78
4066	2032	0.001520	0.000601	0.006529	0.000042	0.001127	0.000380	0.003248	$22.65
4071	2033	0.001578	0.000621	0.006766	0.000043	0.001172	0.000395	0.003371	$23.51
4077	2034	0.001636	0.000640	0.006989	0.000045	0.001216	0.000409	0.003492	$24.35
4083	2035	0.001693	0.000658	0.007202	0.000046	0.001259	0.000424	0.003609	$25.17
								Average:	$16.58

AVO at 3.0:

Incremental Emissions Reduction at AVO 3.00 (TPY/well)									
Drilled Wells	Year	NOx	ROG	CO	SO2	PM10	PM2.5	Total VERA Contribution	VERA Fee Reduction
3966	2015	0.000498	0.000119	0.001219	0.000004	0.000099	0.000035	0.000717	$5.00
3970	2016	0.000845	0.000197	0.002053	0.000007	0.000187	0.000063	0.001229	$8.57
3976	2017	0.001105	0.000251	0.002639	0.000010	0.000272	0.000091	0.001628	$11.35
3982	2018	0.001280	0.000288	0.003052	0.000013	0.000353	0.000118	0.001921	$13.40
3988	2019	0.001393	0.000320	0.003394	0.000016	0.000431	0.000144	0.002144	$14.95
3994	2020	0.001375	0.000355	0.003750	0.000019	0.000505	0.000169	0.002236	$15.59
4000	2021	0.001174	0.000390	0.004105	0.000021	0.000576	0.000193	0.002141	$14.93
4006	2022	0.001014	0.000425	0.004432	0.000024	0.000644	0.000215	0.002083	$14.53
4012	2023	0.000987	0.000446	0.004681	0.000026	0.000710	0.000238	0.002144	$14.95
4018	2024	0.001067	0.000468	0.004925	0.000028	0.000774	0.000259	0.002309	$16.10
4024	2025	0.001149	0.000493	0.005207	0.000031	0.000836	0.000280	0.002478	$17.28
4030	2026	0.001228	0.000518	0.005490	0.000033	0.000896	0.000301	0.002642	$18.43
4036	2027	0.001304	0.000542	0.005765	0.000035	0.000953	0.000320	0.002799	$19.52
4042	2028	0.001376	0.000565	0.006031	0.000037	0.001010	0.000339	0.002951	$20.58
4048	2029	0.001445	0.000586	0.006279	0.000039	0.001064	0.000358	0.003095	$21.58
4054	2030	0.001512	0.000607	0.006535	0.000041	0.001117	0.000376	0.003236	$22.57
4060	2031	0.001578	0.000629	0.006798	0.000043	0.001167	0.000393	0.003374	$23.53
4066	2032	0.001642	0.000650	0.007054	0.000045	0.001218	0.000410	0.003509	$24.47
4071	2033	0.001705	0.000671	0.007309	0.000047	0.001266	0.000427	0.003642	$25.40
4077	2034	0.001768	0.000691	0.007550	0.000048	0.001314	0.000442	0.003773	$26.31
4083	2035	0.001829	0.000711	0.007781	0.000050	0.001360	0.000458	0.003899	$27.19
								Average:	$17.92

Detailed calculations are provided in Appendix F.

Summary of Mitigation Menu Option

Facilities increasing their carpool/vanpool usage in order to reach higher AVO factors may claim the following reductions:

AVO	VERA Fee Reduction
1.50	$3.26
1.75	$7.45
2.00	$10.59
2.25	$13.03
2.50	$14.98
2.75	$16.58
3.00	$17.92

Mitigation Option 3: Road Paving

According to Vector Environmental's draft technical report unpaved road particulate emissions are associated with both operational and construction activities. The report states,

> "Operational activities include two duct generating activities that result in the generation of fugitive on unpaved road dust: routine well inspections and treatment; and of the well maintenance. …
>
> With respect to crude oil and natural gas production wells, construction activity includes 1) the construction of the well; 2) the rework of existing wells; 3) the plugging and abandonment of wells."

This mitigation option evaluates the effects on project emissions and the emission reduction agreement for facilities which pave currently unpaved roads thus decreasing particulate emissions. For the emission calculations, the following methodology was used:

- Particulate emissions for unpaved road use were identified in the following activities:
  - Construction:
    - Abandonment
    - Drilling
    - Well Stimulation
    - Rework
  - Operations:
    - Well Maintenance
    - Routine Operations
    - Facility Inspections
- Total unpaved road particulate emissions, vehicle miles traveled (VMT), and number of wells drilled were identified for each well depth.
- Emissions per VMT-well were determined.
- Emissions per VMT-well associated with paved road travel were calculated.
- Given the same VMT for both the unpaved road and paved road emissions calculation, the reduction in emissions expected on a per well basis due to paving unpaved roads can be calculated.

Detailed calculations are included in Appendix G.

Summary of Mitigation Menu Option

Facilities who pave the unpaved roads associated with a specific well may claim the following reduction for that well:

Year	VERA Reduction Associated with Paving Unpaved Roads	VERA Reduction Expected
2015	0.228647456	$1,594.59
2016	0.24652325	$1,719.25
2017	0.263835922	$1,839.99
2018	0.28077343	$1,958.11
2019	0.297165295	$2,072.43
2020	0.313139726	$2,183.84
2021	0.328546953	$2,291.29
2022	0.343633964	$2,396.50
2023	0.358514986	$2,500.28
2024	0.372914691	$2,600.71
2025	0.387225098	$2,700.51
2026	0.401047842	$2,796.91
2027	0.415401149	$2,897.01
2028	0.42902202	$2,992.00
2029	0.442151266	$3,083.56
2030	0.455399994	$3,175.96
2031	0.468455829	$3,267.01
2032	0.481027445	$3,354.69
2033	0.493842872	$3,444.06
2034	0.506101105	$3,529.55
2035	0.519126503	$3,620.39
	Average:	$2,667.55

Additional Mitigation Options

In addition to the mitigation menu options identified above, ANT proposes to investigate the following mitigation options in the future:

- Advanced emission control technologies for stationary source equipment (i.e. catalysts)
- Rig electrification
- Remote well surveillance systems to reduce inspection travel
- Emissions/ERA broken out by well depth and location

APPENDIX A

Revised Stationary Source Spreadsheets

Kern County - Baseline Equipment and Projected Build-Out to 2035

Western Zone Baseline Equipment	Kern County Baseline			New Eqp. or System	Required Acreage	Basis of Estimation For Required Acreage	
	Total Capacity	Ave Capacity	Units				
Boiler	111.11	8.82	MMBtu/Hr	4.95	0.05	20 Ft x 20 Ft	Deminimus per SPAL
Cogeneration	1,860.11	28.19	MW	49.12	19.96	0.25 Acre/ Cogen	Assume 0.5 Acre per Cogen Unit
Fugitive PM10	43,028.00	3.00	Wells	27,009.00	0.00	Acreage accounted for in well construction	
Fugitive VOC	43,028.00	3.00	Wells	27,009.00	0.00	Acreage accounted for in well construction	
Process Heater	606.58	7.11	MMBtu/Hr	39.29	0.22	20 Ft x 20 Ft	Deminimus per SPAL
IC Engine (RICE)	217,313.80	691.63	BHP *Hr	92.60	1.06	25 Ft x 20 Ft	Engine + Access
Steam Generators	34,655.40	65.81	MMBtu/Hr	238.13	27.33	50 Ft x 100 Ft	Steam Generator + Access
Production Tanks	2,720,948.45	3,343.40	BBL Capacity	367.69	21.10	50 Ft x 50 Ft	30 Ft Diameter + Access
TEOR Wells	27,723.00	27,723.00	TEOR Wells	70.07	0.26	1.0 Acre/System	Assume 1 Acres for Process Equipment
VOCDD (Flare)	41,413.83	346.58	MMBtu/Hr	36.43	1.49	50 x 50	Flare plus supports and access

Western Zone - Baseline Equipment and Projected Build-Out to 2035

Western Zone Baseline Equipment	Western Zone Baseline Conditions			New Eqp. or System	Required Acreage	Basis of Estimation For Required Acreage	
	Total Capacity	Ave Capacity	Units				
Boiler	101.11	12.64	MMBtu/Hr	2.68	0.02	20 Ft x 20 Ft	Deminimus per SPAL
Cogeneration	663.81	12.07	MW	18.41	4.60	0.25 Acre/ Cogen	Assume 0.5 Acre per Cogen Unit
Fugitive PM10	27,873.00	1.00	TPY/Well	9,332	0.00	NA - Accounted for in well construction	
Fugitive VOC	27,873.00	1.00	TPY/Well	9,332	0.00	NA - Accounted for in well construction	
Process Heater	590.10	8.68	MMBtu/Hr	22.76	0.21	20 Ft x 20 Ft	Deminimus per SPAL
IC Engine (RICE)	210,837.80	920.69	BHP *Hr	76.67	0.88	25 Ft x 20 Ft	Engine + Access
Steam Generators	29,813.90	63.43	MMBtu/Hr	157.37	18.06	50 Ft x 100 Ft	Steam Generator + Access
Production Tanks	1,843,856.14	3,991.03	BBL Capacity	154.68	8.88	50 Ft x 50 Ft	30 Ft Diameter + Access
TEOR Wells	15,540.00	293.21	TEOR Wells	17.74	0.06	1.0 Acre/System	Assume 1 Acres for Process Equipment
VOCDD (Flare)	40,804.13	971.53	MMBtu/Hr	14.06	0.81	50 x 50	Flare plus supports and access

Central Zone - Baseline Equipment and Projected Build-Out to 2035

Western Zone Baseline Equipment	Central Zone Baseline Conditions			New Eqp. or System	Required Acreage	Basis of Estimation For Required Acreage	
	Total Capacity	Ave Capacity	Units				
Fugitive PM10	413	1.00	TPY/Well	908	0.00	NA - Accounted for in well construction	
Fugitive VOC	413	1.00	TPY/Well	908	0.00	NA - Accounted for in well construction	
Process Heater	4.48	0.64	MMBtu/Hr	15.39	0.14	20 Ft x 20 Ft	Deminimus per SPAL
Production Tanks	8,900.00	809.0909	BBL Capacity	24.18	1.39	50 Ft x 50 Ft	30 Ft Diameter + Access
VOCDD (Flare)	72.30	14.46	MMBtu/Hr	10.99	0.03	10 x 10	Flare plus supports and access

Eastern Zone - Baseline Equipment and Projected Build-Out to 2035

Western Zone Baseline Equipment	Eastern Zone Baseline Conditions			New Eqp. or System	Required Acreage	Basis of Estimation For Required Acreage	
	Total Capacity	Ave Capacity	Units				
Boiler	10.00	5.00	MMBtu/Hr	2.27	0.02	20 Ft x 20 Ft	Deminimus per SPAL
Cogeneration	1,196.30	44.31	MW	30.71	15.36	0.5 Acre/ Cogen	Assume 0.5 Acre per Cogen Unit
Fugitive PM10	14,742.00	1.00	TPY/Well	16,769.00	0.00	NA - Accounted for in well construction	
Fugitive VOC	14,742.00	1.00	TPY/Well	16,769.00	0.00	NA - Accounted for in well construction	
Process Heater	12.00	12.00	MMBtu/Hr	1.14	0.01	20 Ft x 20 Ft	Deminimus per SPAL
IC Engine (RICE)	6,476.00	462.57	BHP *Hr	15.93	0.18	25 Ft x 20 Ft	Engine + Access
Steam Generators	4,841.50	68.19	MMBtu/Hr	80.76	9.27	50 Ft x 100 Ft	Steam Generator + Access
Production Tanks	868,192.31	5,230.07	BBL Capacity	188.82	10.84	50 Ft x 50 Ft	30 Ft Diameter + Access
TEOR Wells	12,183.00	264.85	TEOR Wells	52.32	0.20	1.0 Acre/System	Assume 1 Acres for System Equipment
VOCDD (Flare)	537.40	53.74	MMBtu/Hr	11.37	0.65	50 x 50	Flare plus supports and access

Kern County - Baseline Emissions from Stationary Source Equipment

Total Baseline Emissions	Baseline Emissions from Stationary Source Equipment (2012)					
	NOx TPY	VOC TPY	CO TPY	SOx TPY	PM10 TPY	PM2.5
Boiler	1.3398	0.1487	0.2339	0.0087	0.3016	0.3016
Cogeneration	706.1108	193.3278	984.6428	53.4080	205.1160	205.1160
Fugitive PM10	0.0000	0.0000	0.0000	0.0000	2.3305	2.3305
Fugitive VOC	0.0000	290.6551	0.0000	0.0000	0.0000	0.0000
Process Heater	7.4518	1.1439	2.3644	0.1856	1.8702	1.8702
IC Engine (RICE)	336.2598	95.6970	1,388.9096	0.1907	2.9492	2.9492
Steam Generators	560.3716	236.6418	106.6538	241.2484	517.5535	517.5535
Production Tanks	2.2222	539.7282	12.0888	3.9768	0.2371	0.2371
TEOR Wells	27.6740	2,480.0699	20.2190	40.8657	2.7722	2.7722
VOCDD (Flare)	51.5351	41.1672	99.0474	18.4762	5.2719	5.2719
Title-V Emissions	1,692.9650	3,878.5796	2,614.1597	358.3599	738.4023	738.4023
Small Sources (+10%)	169.2965	387.8580	261.4160	35.8360	73.8402	73.8402
Total Emissions (TPY)	1862.2615	4266.4375	2875.5756	394.1959	812.2425	812.2425
Total Emissions (TPD)	5.0881	11.6569	7.8568	1.0770	2.2192	2.2192

Western Zone - Baseline Emissions from Stationary Source Equipment

Western Zone Baseline Emissions	Baseline Emissions from Stationary Source Equipment (2012)					
	NOx TPY	VOC TPY	CO TPY	SOx TPY	PM10 TPY	PM2.5
Boiler	1.3398	0.1487	0.2339	0.0087	0.3016	0.3016
Cogeneration	333.6664	110.9667	463.6719	12.9151	106.1669	106.1669
Fugitive PM10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Fugitive VOC	0.0000	261.0219	0.0000	0.0000	0.0000	0.0000
Process Heater	7.3627	1.0766	2.3644	0.1507	1.7772	1.7772
IC Engine (RICE)	334.3641	94.6067	1,370.0450	0.1666	2.7712	2.7712
Steam Generators	501.5973	199.9553	29.3932	224.1287	394.7268	394.7268
Production Tanks	2.2222	424.8226	12.0888	3.9768	0.2371	0.2371
TEOR Wells	27.6166	2,480.0166	19.9064	40.8608	2.7655	2.7655
VOCDD (Flare)	41.7010	26.9253	45.5385	18.3088	2.5265	2.5265
Title-V Emissions	1,249.8701	3,599.5403	1,943.2420	300.5161	511.2728	511.2728
Small Sources (+10%)	124.9870	359.9540	194.3242	30.0516	51.1273	51.1273
Total Emissions (TPY)	1,374.8571	3,959.4943	2,137.5662	330.5677	562.4000	562.4000
Total Emissions (TPD)	3.7564	10.8183	5.8403	0.9032	1.5366	1.5366

Central Zone - Baseline Emissions from Stationary Source Equipment

Central Zone Baseline Emissions	Baseline Emissions from Stationary Source Equipment (2012)					
	NOx TPY	VOC TPY	CO TPY	SOx TPY	PM10 TPY	PM2.5
Fugitive PM10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Fugitive VOC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Process Heater	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Production Tanks	0.0000	51.5147	0.0000	0.0000	0.0000	0.0000
VOCDD (Flare)	8.6448	11.1874	47.0381	0.1271	2.5426	2.5426
Title-V Emissions	8.6448	62.7021	47.0381	0.1271	2.5426	2.5426
Small Sources (+10%)	0.8645	6.2702	4.7038	0.0127	0.2543	0.2543
Total Emissions (TPY)	9.5093	68.9723	51.7419	0.1398	2.7969	2.7969
Total Emissions (TPD)	0.0260	0.1884	0.1414	0.0004	0.0076	0.0076

Eastern Zone - Baseline Emissions from Stationary Source Equipment

Eastern Zone Baseline Equipment	Baseline Emissions from Stationary Source Equipment (2012)					
	NOx TPY	VOC TPY	CO TPY	SOx TPY	PM10 TPY	PM2.5
Boiler	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Cogeneration	372.4444	82.3611	520.9710	40.4929	98.9491	98.9491
Fugitive PM10	0.0000	0.0000	0.0000	0.0000	2.3305	2.3305
Fugitive VOC	0.0000	29.6332	0.0000	0.0000	0.0000	0.0000
Process Heater	0.0891	0.0673	0.0000	0.0349	0.0930	0.0930
IC Engine (RICE)	1.8957	1.0903	18.8646	0.0241	0.1780	0.1780
Steam Generators	58.7742	36.6865	77.2606	17.1197	122.8266	122.8266
Production Tanks	0.0000	63.3909	0.0000	0.0000	0.0000	0.0000
TEOR Wells	0.0574	0.0533	0.3126	0.0049	0.0067	0.0067
VOCDD (Flare)	1.1892	3.0545	6.4708	0.0402	0.2029	0.2029
Title-V Emissions	434.4500	216.3372	623.8796	57.7167	224.5869	224.5869
Small Sources (+10%)	43.4450	21.6337	62.3880	5.7717	22.4587	22.4587
Total Emissions (TPY)	477.8950	237.9709	686.2675	63.4883	247.0456	247.0456
Total Emissions (TPD)	1.3057	0.6502	1.8750	0.1735	0.6750	0.6750

Average - Baseline Emission Factors for Stationary Source Equipment

Total Baseline Emissions	Emission Factor Units	County Wide - Emission Factors (Tons/Unit Capacity)					
		NOx	VOC	CO	SOx	PM10	PM2.5
Boiler	TPY/MMBtu/Hr	0.012058	0.001338	0.002105	0.000078	0.002715	0.002715
Cogeneration	TPY/MW	0.379607	0.103934	0.529347	0.028712	0.110271	0.110271
Fugitive PM10	TPY/Well	0.000000	0.000000	0.000000	0.000000	0.000054	0.000054
Fugitive VOC	TPY/Well	0.000000	0.006755	0.000000	0.000000	0.000000	0.000000
Process Heater	TPY/MMBtu/Hr	0.012285	0.001886	0.003898	0.000306	0.003083	0.003083
IC Engine (RICE)	TPY/Bhp*hr	0.001547	0.000440	0.006391	0.000001	0.000014	0.000014
Steam Generators	TPY/MMBtu/Hr	0.016170	0.006828	0.003078	0.006961	0.014934	0.014934
Production Tanks	TPY/BBL Cap	0.000001	0.000198	0.000004	0.000001	0.000000	0.000000
TEOR Wells	TPY/TEOR Well	0.000998	0.089459	0.000729	0.001474	0.000100	0.000100
VOCDD (Flare)	TPY/MMBtu/Hr	0.001244	0.000994	0.002392	0.000446	0.000127	0.000127

Western Zone - Emission Factors for Stationary Source Equipment

Western Zone Baseline Emissions	Emission Factor Units	Western Zone - Emission Factors (Tons/Unit Capacity)					
		NOx	VOC	CO	SOx	PM10	PM2.5
Boiler	TPY/MMBtu/Hr	0.013251	0.001470	0.002313	0.000086	0.002983	0.002983
Cogeneration	TPY/MW	0.502653	0.167166	0.698501	0.019456	0.159936	0.159936
Fugitive PM10	TPY/Well	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Fugitive VOC	TPY/Well	0.000000	0.009365	0.000000	0.000000	0.000000	0.000000
Process Heater	TPY/MMBtu/Hr	0.012477	0.001824	0.004007	0.000255	0.003012	0.003012
IC Engine (RICE)	TPY/Bhp*hr	0.001586	0.000449	0.006498	0.000001	0.000013	0.000013
Steam Generators	TPY/MMBtu/Hr	0.016824	0.006707	0.000986	0.007518	0.013240	0.013240
Production Tanks	TPY/BBL Cap	0.000001	0.000230	0.000007	0.000002	0.000000	0.000000
TEOR Wells	TPY/TEOR Well	0.001777	0.159589	0.001281	0.002629	0.000178	0.000178
VOCDD (Flare)	TPY/MMBtu/Hr	0.001022	0.000660	0.001116	0.000449	0.000062	0.000062

Central Zone - Emission Factors for Stationary Source Equipment

Central Zone Baseline Emissions	Emission Factor Units	Central Zone - Emission Factors (Tons/Unit Capacity)					
		NOx	VOC	CO	SOx	PM10	PM2.5
Fugitive PM10	TPY/Well	0.000000	0.000000	0.000000	0.000000	0.000079	0.000079
Fugitive VOC	TPY/Well	0.000000	0.005687	0.000000	0.000000	0.000000	0.000000
Process Heater	TPY/MMBtu/Hr	0.009950	0.003716	0.002003	0.001581	0.005380	0.005380
Production Tanks	TPY/BBL Cap	0.000000	0.005788	0.000000	0.000000	0.000000	0.000000
VOCDD (Flare)	TPY/MMBtu/Hr	0.119569	0.154736	0.650596	0.001758	0.035167	0.035167

Eastern Zone - Emission Factors for Stationary Source Equipment

Eastern Zone Baseline Equipment	Emission Factor Units	Eastern Zone - Emission Factors (Tons/Unit Capacity)					
		NOx	VOC	CO	SOx	PM10	PM2.5
Boiler	TPY/MMBtu/Hr	0.013251	0.001470	0.002313	0.000086	0.002983	0.002983
Cogeneration	TPY/MW	0.311330	0.068847	0.435485	0.033848	0.082713	0.082713
Fugitive PM10	TPY/Well	0.000000	0.000000	0.000000	0.000000	0.000158	0.000158
Fugitive VOC	TPY/Well	0.000000	0.002010	0.000000	0.000000	0.000000	0.000000
Process Heater	TPY/MMBtu/Hr	0.007423	0.005608	0.000000	0.002906	0.007749	0.007749
IC Engine (RICE)	TPY/Bhp*hr	0.000293	0.000168	0.002913	0.000004	0.000027	0.000027
Steam Generators	TPY/MMBtu/Hr	0.012140	0.007578	0.015958	0.003536	0.025370	0.025370
Production Tanks	TPY/BBL Cap	0.000000	0.000073	0.000000	0.000000	0.000000	0.000000
TEOR Wells	TPY/TEOR Well	0.000005	0.000004	0.000026	0.000000	0.000001	0.000001
VOCDD (Flare)	TPY/MMBtu/Hr	0.002213	0.005684	0.012041	0.000075	0.000378	0.000378

Total Kern County - 2035 Emissions from Stationary Source Equipment

Total Emissions 2035 Build-out	Total Capacity	Capacity Units	Kern County Emissions from Stationary Source Equipment (2035)					
			NOx TPY	VOC TPY	CO TPY	SOx TPY	PM10 TPY	PM2.5
Boiler	156.34	MMBtu/Hr	2.07	0.23	0.36	0.01	0.47	0.47
Cogeneration	3,443.15	MW	1,241.48	324.17	1,732.49	103.79	353.22	353.22
Fugitive PM10	70,037	Wells	0.00	0.00	0.00	0.00	5.09	5.09
Fugitive VOC	70,037	Wells	0.00	419.27	0.00	0.00	0.00	0.00
Process Heater	827.65	MMBtu/Hr	10.16	1.63	3.18	0.30	2.65	2.65
IC Engine (RICE)	295,269.64	BHP*Hr	450.36	128.61	1,869.06	0.27	4.08	4.08
Steam Generators	50,144.42	MMBtu/Hr	795.16	345.32	204.38	335.76	789.42	789.42
Production Tanks	4,345,413.75	BBL Capacity	2.97	867.33	16.14	5.31	0.32	0.32
TEOR Wells	46,784.00	TEOR Wells	36.99	3,310.45	27.24	54.55	3.71	3.71
VOCDD (Flare)	55,845.47	MMBtu/Hr	85.86	78.25	225.07	24.93	11.94	11.94
Total Emissions Title-v O&G Sources			2,625.04	5,475.26	4,077.92	524.93	1,170.88	1,170.88
Total Emissions Small O&G Sources (+10%)			262.50	547.53	407.79	52.49	117.09	117.09
Total Emissions All O&G SOurces (TPY)			2,887.55	6,022.78	4,485.71	577.42	1,287.97	1,287.97
Total Emissions All O&G SOurces (TPD)			7.89	16.46	12.26	1.58	3.52	3.52

Western Zone - 2035 Emissions from Stationary Source Equipment

Western Zone 2035 Emissions	Total Capacity	Capacity Units	Total Emissions from Stationary Source Equipment (2035)					
			NOx TPY	VOC TPY	CO TPY	SOx TPY	PM10 TPY	PM2.5
Boiler	134.96	MMBtu/Hr	1.7884	0.1985	0.3122	0.0116	0.4026	0.4026
Cogeneration	886.06	MW	445.3793	148.1189	618.9112	17.2391	141.7120	141.7120
Fugitive PM10	37,205	Wells	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Fugitive VOC	37,205	Wells	0.0000	348.4132	0.0000	0.0000	0.0000	0.0000
Process Heater	787.67	MMBtu/Hr	9.8278	1.4370	3.1559	0.2012	2.3723	2.3723
IC Engine (RICE)	281,427.20	BHP*Hr	446.3107	126.2814	1,828.7419	0.2224	3.6990	3.6990
Steam Generators	39,795.72	MMBtu/Hr	669.5343	266.9012	39.2342	299.1679	526.8830	526.8830
Production Tanks	2,461,187.09	BBL Capacity	2.9662	567.0550	16.1362	5.3082	0.3165	0.3165
TEOR Wells	20,742.86	TEOR Wells	36.8627	3,310.3368	26.5712	54.5412	3.6914	3.6914
VOCDD (Flare)	54,465.53	MMBtu/Hr	55.6626	35.9400	60.7850	24.4387	3.3723	3.3723
Total Emissions Title-v O&G Sources			1,668.3320	4,804.6818	2,593.8478	401.1302	682.4491	682.4491
Total Emissions Small O&G Sources (+10%)			166.8332	480.4682	259.3848	40.1130	68.2449	68.2449
Total Emissions All O&G SOurces (TPY)			1,835.1652	5,285.1500	2,853.2325	441.2432	750.6940	750.6940
Total Emissions All O&G SOurces (TPD)			5.0141	14.4403	7.7957	1.2056	2.0511	2.0511

Central Zone - 2035 Emissions from Stationary Source Equipment

Central Zone 2035 Emissions	Total Capacity	Capacity Units	Central Zone Emissions from Stationary Source Equipment (2035)					
			NOx TPY	VOC TPY	CO TPY	SOx TPY	PM10 TPY	PM2.5
Fugitive PM10	1,321	Wells	0.0000	0.0000	0.0000	0.0000	0.1044	0.1044
Fugitive VOC	1,321	Wells	0.0000	7.5131	0.0000	0.0000	0.0000	0.0000
Process Heater	14.33	MMBtu/Hr	0.1426	0.0532	0.0287	0.0226	0.0771	0.0771
Production Tanks	28,467.07	BBL Capacity	0.0000	164.7721	0.0000	0.0000	0.0000	0.0000
VOCDD (Flare)	231.25	MMBtu/Hr	27.6509	35.7836	150.4536	0.4066	8.1326	8.1326
Total Emissions Title-v O&G Sources			27.7935	208.1220	150.4823	0.4293	8.3141	8.3141
Total Emissions Small O&G Sources (+10%)			2.7794	20.8122	15.0482	0.0429	0.8314	0.8314
Total Emissions All O&G SOurces (TPY)			30.5729	228.9342	165.5305	0.4722	9.1456	9.1456
Total Emissions All O&G SOurces (TPD)			0.0835	0.6255	0.4523	0.0013	0.0250	0.0250

Eastern Zone - 2035 Emissions from Stationary Source Equipment

Eastern Zone 2035 Emissions	Total Capacity	Capacity Units	Eastern Zone Emissions from Stationary Source Equipment (2035)					
			NOx TPY	VOC TPY	CO TPY	SOx TPY	PM10 TPY	PM2.5
Boiler	21.37	MMBtu/Hr	0.2832	0.0314	0.0494	0.0018	0.0638	0.0638
Cogeneration	2,557.09	MW	796.0993	176.0467	1,113.5746	86.5535	211.5036	211.5036
Fugitive PM10	31,511	Wells	0.0000	0.0000	0.0000	0.0000	4.9815	4.9815
Fugitive VOC	31,511	Wells	0.0000	63.3410	0.0000	0.0000	0.0000	0.0000
Process Heater	25.65	MMBtu/Hr	0.1904	0.1438	0.0000	0.0745	0.1988	0.1988
IC Engine (RICE)	13,842.44	BHP*Hr	4.0520	2.3306	40.3231	0.0515	0.3805	0.3805
Steam Generators	10,348.70	MMBtu/Hr	125.6298	78.4174	165.1444	36.5933	262.5417	262.5417
Production Tanks	1,855,759.59	BBL Capacity	0.0000	135.4980	0.0000	0.0000	0.0000	0.0000
TEOR Wells	26,041.14	TEOR Wells	0.1227	0.1139	0.6681	0.0104	0.0144	0.0144
VOCDD (Flare)	1,148.69	MMBtu/Hr	2.5420	6.5290	13.8314	0.0860	0.4337	0.4337
Total Emissions Title-v O&G Sources			928.9194	462.4518	1,333.5909	123.3711	480.1179	480.1179
Total Emissions Small O&G Sources (+10%)			92.8919	46.2452	133.3591	12.3371	48.0118	48.0118
Total Emissions All O&G SOurces (TPY)			1,021.8114	508.6969	1,466.9500	135.7082	528.1296	528.1296
Total Emissions All O&G SOurces (TPD)			2.7918	1.3899	4.0081	0.3708	1.4430	1.4430

Western Planning Zone - Active Baseline Wells and Forecast of Future Active Wells (2015 through 2035)

Western Zone Baseline Wells (2012)				Western Kern County Planning Zone - Active Well Counts for Future Years (Baseline+Drilling-Abandonment)																		
				2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Projected Counts of Total Active Wells				28,688	29,413	30,091	30,727	31,323	31,883	32,407	32,900	33,362	33,797	34,206	34,591	34,953	35,295	35,617	35,920	36,207	36,478	36,734	36,976	37,205
Baseline Count of Total Active Wells				27,873	27,873	27,873	27,873	27,873	27,873	27,873	27,873	27,873	27,873	27,873	27,873	27,873	27,873	27,873	27,873	27,873	27,873	27,873	27,873	27,873
Change in Total Number of Active Wells				815	1,540	2,218	2,854	3,450	4,010	4,534	5,027	5,489	5,924	6,333	6,718	7,080	7,422	7,744	8,047	8,334	8,605	8,861	9,103	9,332
Western Zone Baseline Wells (2012)				**Western Kern County Planning Zone - Active Well Counts for Future Years by Depth (2015 through 2035)**																		
Depth Category	Ave. Depth	Well Count	Percent	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
1,000	734	2,785	9.99	2866	2939	3007	3070	3130	3186	3238	3287	3333	3377	3418	3456	3492	3527	3559	3589	3618	3645	3670	3695	3717
2,000	1,478	14,442	51.81	14,866	15,239	15,591	15,923	16,232	16,520	16,793	17,050	17,287	17,512	17,726	17,925	18,111	18,287	18,454	18,612	18,758	18,901	19,033	19,158	19,280
3,000	2,440	5,062	18.16	5210	5342	5465	5580	5689	5790	5885	5975	6059	6138	6212	6282	6348	6410	6468	6523	6576	6625	6671	6715	6757
4,000	3,367	2,152	7.72	2215	2271	2323	2372	2418	2462	2502	2540	2576	2609	2641	2671	2699	2725	2750	2773	2795	2816	2836	2855	2873
5,000	4,493	697	2.50	717	736	752	768	783	797	810	823	834	845	855	865	874	883	891	898	905	912	919	925	930
6,000	5,468	485	1.74	499	512	524	535	545	555	564	572	581	588	595	602	608	614	620	625	630	635	639	643	647
7,000	6,566	625	2.24	643	660	675	689	702	715	727	738	748	758	767	776	784	791	799	805	812	818	824	829	834
8,000	7,468	678	2.43	698	715	732	747	762	776	788	800	812	822	832	841	850	859	866	874	881	887	894	899	905
9,000	8,457	291	1.04	300	307	314	321	327	333	338	343	348	353	357	361	365	368	372	375	378	381	384	386	388
10,000	9,476	324	1.16	333	342	350	357	364	371	377	382	388	393	398	402	406	410	414	418	421	424	427	430	432
11,000	10,416	120	0.43	124	127	130	132	135	137	140	142	144	146	147	149	150	152	153	155	156	157	158	159	160
12,000	11,562	76	0.27	78	80	82	84	85	87	88	90	91	92	93	94	95	96	97	98	99	99	100	101	101
13,000	12,445	79	0.28	81	83	85	87	89	90	92	93	95	96	97	98	99	100	101	102	103	103	104	105	105
14,000	13,497	36	0.13	37	38	39	40	40	41	42	42	43	44	44	45	45	46	46	46	47	47	47	48	48
15,000	14,380	12	0.04	12	13	13	13	13	14	14	14	14	15	15	15	15	15	15	15	16	16	16	16	16
16,000	15,177	1	0.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17,000	16,502	2	0.01	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3
18,000	17,914	2	0.01	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3
19,000	18,438	2	0.01	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3
20,000	19,159	1	0.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25,000	24,426	1	0.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total or Average	2,418	27,873	100.00	28,688	29,413	30,091	30,727	31,323	31,883	32,407	32,900	33,362	33,797	34,206	34,591	34,953	35,295	35,617	35,920	36,207	36,478	36,734	36,976	37,205

Central Planning Zone - Active Baseline Wells and Forecast of Future Active Wells (2015 through 2035)

Central Zone Baseline Wells (2012)	Central Kern County Planning Zone - Active Well Counts for Future Years (Baseline+Drilling-Abandonment)																				
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Projected Counts of Total Active Wells	514	605	686	760	826	886	939	988	1,032	1,071	1,106	1,139	1,169	1,196	1,220	1,241	1,261	1,278	1,294	1,309	1,321
Baseline Count of Total Active Wells	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413
Change in Total Number of Active Wells	101	192	273	347	413	473	526	575	619	658	693	726	756	783	807	828	848	865	881	896	908

Central Zone Baseline Wells (2012)				Central Kern County Planning Zone - Active Well Counts for Future Years by Depth (2015 through 2035)																			
Depth Category	Ave. Depth	Well Count	Percent	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
4,000	3,706	12	2.91	15	18	20	22	24	26	27	29	30	31	32	33	34	35	35	36	37	37	38	38	38
5,000	4,674	32	7.75	40	47	53	59	64	69	73	77	80	83	86	88	91	93	94	96	98	99	100	101	102
6,000	5,325	13	3.15	16	19	22	24	26	28	30	31	32	34	35	36	37	38	38	39	40	40	41	41	42
7,000	6,335	7	1.69	9	10	12	13	14	15	16	17	17	18	19	19	20	20	21	21	21	22	22	22	22
8,000	7,677	69	16.71	86	101	115	127	138	148	157	165	172	179	185	190	195	200	204	207	211	214	216	219	221
9,000	8,377	42	10.17	52	61	70	77	84	90	96	100	105	109	113	116	119	122	124	126	128	130	132	133	134
10,000	9,704	34	8.23	42	50	57	63	68	73	77	81	85	88	91	94	96	98	100	102	104	105	107	108	109
11,000	10,483	43	10.41	54	63	71	79	86	92	98	103	107	111	115	119	122	124	127	129	131	133	135	136	138
12,000	11,524	103	24.94	128	152	169	189	206	221	233	247	261	267	274	283	291	298	306	311	314	318	322	327	330
13,000	12,467	39	9.44	49	57	65	72	78	84	89	93	97	101	104	108	110	113	115	117	119	121	122	124	125
14,000	13,530	17	4.12	21	25	28	31	34	36	39	41	42	44	46	47	48	49	50	51	52	53	53	54	54
15,000	14,829	1	0.24	1	1	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3
16,000	15,866	1	0.24	1	1	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3
Total or Average	9,452	413	100.00	514	605	686	760	826	886	939	988	1,032	1,071	1,106	1,139	1,169	1,196	1,220	1,241	1,261	1,278	1,294	1,309	1,321

Eastern Planning Zone - Active Baseline Wells and Forecast of Future Active Wells (2015 through 2035)

Eastern Zone Baseline Wells (2012)	Eastern Kern County Planning Zone - Active Well Counts for Future Years (Baseline+Drilling-Abandonment)																				
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Projected Counts of Total Active Wells	15,743	16,714	17,662	18,589	19,494	20,380	21,245	22,091	22,918	23,726	24,517	25,288	26,043	26,781	27,502	28,208	28,898	29,573	30,233	30,879	31,511
Baseline Count of Total Active Wells	14,742	14,742	14,742	14,742	14,742	14,742	14,742	14,742	14,742	14,742	14,742	14,742	14,742	14,742	14,742	14,742	14,742	14,742	14,742	14,742	14,742
Change in Total Number of Active Wells	1,001	1,972	2,920	3,847	4,752	5,638	6,503	7,349	8,176	8,984	9,775	10,546	11,301	12,039	12,760	13,466	14,156	14,831	15,491	16,137	16,769

Eastern Zone Baseline Wells (2012)				Eastern Kern County Planning Zone - Active Well Counts for Future Years by Depth (2015 through 2035)																			
Depth Category	Ave. Depth	Well Count	Percent	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
1,000	827	3,577	24.26	3820	4055	4285	4510	4730	4945	5155	5360	5561	5757	5949	6136	6319	6498	6673	6844	7012	7176	7336	7492	7646
2,000	1,337	8,035	54.50	8,580	9,111	9,628	10,133	10,626	11,110	11,580	12,043	12,491	12,932	13,361	13,783	14,193	14,596	14,989	15,375	15,751	16,119	16,478	16,830	17,176
3,000	2,453	1,850	12.55	1976	2097	2216	2333	2446	2557	2666	2772	2876	2977	3077	3173	3268	3361	3451	3540	3626	3711	3794	3875	3954
4,000	3,440	445	3.02	475	505	533	561	588	615	641	667	692	716	740	763	786	808	830	851	872	893	913	932	951
5,000	4,458	464	3.15	496	526	556	585	614	641	669	695	721	747	772	796	820	843	866	888	910	931	952	972	992
6,000	5,493	219	1.49	234	248	262	276	290	303	316	328	340	352	364	376	387	398	409	419	429	439	449	459	468
7,000	6,334	82	0.56	88	93	98	103	108	113	118	123	127	132	136	141	145	149	153	157	161	164	168	172	175
8,000	7,396	18	0.12	19	20	22	23	24	25	26	27	28	29	30	31	32	33	34	34	35	36	37	38	38
9,000	8,554	19	0.13	20	22	23	24	25	26	27	28	30	31	32	33	34	35	35	36	37	38	39	40	41
10,000	9,453	9	0.06	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	18	19	19
11,000	10,170	4	0.03	4	5	5	5	5	6	6	6	6	6	7	7	7	7	7	8	8	8	8	8	9
12,000	11,359	16	0.11	17	18	19	20	21	22	23	24	25	26	27	27	28	29	30	31	31	32	33	34	34
13,000	12,181	2	0.01	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4
14,000	13,239	1	0.01	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2
15,000	14,671	1	0.01	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2
Total or Average	1,643	14,742	100.00	15,743	16,714	17,662	18,589	19,494	20,380	21,245	22,091	22,918	23,726	24,517	25,288	26,043	26,781	27,502	28,208	28,898	29,573	30,233	30,879	31,511

Grand Total for Active Wells - Future Years	44,945	46,731	48,440	50,076	51,644	53,148	54,592	55,979	57,312	58,594	59,829	61,018	62,165	63,271	64,338	65,370	66,366	67,330	68,261	69,163	70,037

Western Planning Zone - Baseline Drilling Well Counts and Well Counts for Future Drilling (2015 through 2035)

Western Zone Baseline Drilling (2012)				Western Kern County Planning Zone - New Well Counts for Future Years by Well Depth (2015 through 2035)																		
Depth Category	Ave. Depth	Well Count	Percent	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
1,000	671	275	10.79	275	275	275	276	276	277	277	277	278	278	279	279	280	280	281	281	281	282	282	283	283
2,000	1,563	1,146	44.96	1,143	1,145	1,148	1,149	1,152	1,153	1,155	1,159	1,161	1,162	1,163	1,165	1,165	1,168	1,170	1,172	1,174	1,175	1,174	1,176	1,179
3,000	2,309	604	23.70	603	604	605	606	607	608	609	609	610	611	612	613	614	615	616	617	618	619	620	621	622
4,000	3,389	106	4.16	106	106	106	106	106	107	107	107	107	107	107	108	108	108	108	108	108	109	109	109	109
5,000	4,528	215	8.43	215	215	215	216	216	216	217	217	217	218	218	218	219	219	219	220	220	220	221	221	221
6,000	5,443	43	1.69	43	43	43	43	43	43	43	43	43	44	44	44	44	44	44	44	44	44	44	44	44
7,000	6,518	37	1.45	37	37	37	37	37	37	37	37	37	37	38	38	38	38	38	38	38	38	38	38	38
8,000	7,497	20	0.78	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	21	21	21
9,000	8,481	31	1.22	31	31	31	31	31	31	31	31	31	31	31	31	32	32	32	32	32	32	32	32	32
10,000	9,576	15	0.59	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
11,000	10,391	22	0.86	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	23	23	23	23	23
12,000	11,507	20	0.78	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	21	21	21
13,000	12,283	11	0.43	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
14,000	13,507	4	0.16	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Total or Average	2,504	2,549	100.00	2,545	2,548	2,552	2,556	2,560	2,564	2,568	2,572	2,576	2,580	2,584	2,588	2,592	2,596	2,600	2,604	2,608	2,612	2,615	2,619	2,623

Central Planning Zone - Baseline Drilling Well Counts and Well Counts for Future Drilling (2015 through 2035)

Central Zone Baseline Drilling (2012)				Central Kern County Planning Zone - New Well Counts for Future Years by Well Depth (2015 through 2035)																		
Depth Category	Ave. Depth	Well Count	Percent	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
4,000	3,807	2	4.26	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
5,000	4,500	8	17.02	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
6,000	5,233	3	6.38	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
7,000	6,378	5	10.64	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
9,000	8,687	2	4.26	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
10,000	9,221	6	12.77	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
11,000	10,662	3	6.38	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
12,000	11,355	7	14.89	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
13,000	12,374	9	19.15	25	25	25	25	25	25	25	25	25	25	25	26	26	26	26	26	26	26	26	26	26
14,000	13,905	2	4.26	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Total or Average	8,820	47	100.00	139	139	139	139	139	139	139	139	139	139	139	140	140	140	140	140	140	140	140	140	140

Eastern Planning Zone - Baseline Drilling Well Counts and Well Counts for Future Drilling (2015 through 2035)

Eastern Zone Baseline Drilling (2012)				Eastern Kern County Planning Zone - New Well Counts for Future Years by Well Depth (2015 through 2035)																		
Depth Category	Ave. Depth	Well Count	Percent	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
1,000	687	30	3.77	48	48	48	49	49	49	49	49	49	49	49	49	49	49	49	49	49	50	50	50	50
2,000	1,573	268	33.67	432	432	433	433	434	435	435	436	437	437	438	438	439	440	440	441	442	442	443	444	444
3,000	2,361	326	40.95	525	526	526	527	527	528	530	531	531	531	532	533	534	535	536	536	537	538	539	540	541
4,000	3,374	66	8.29	106	106	107	107	107	107	107	107	108	108	108	108	108	108	108	109	109	109	109	109	109
5,000	4,526	77	9.67	124	124	124	124	125	125	125	125	125	126	126	126	126	126	127	127	127	127	127	127	128
6,000	5,294	23	2.89	37	37	37	37	37	37	37	37	37	38	38	38	38	38	38	38	38	38	38	38	38
7,000	6,387	2	0.25	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
8,000	7,665	3	0.38	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
15,000	14,250	1	0.13	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Total or Average	2,456	796	100.00	1,282	1,283	1,285	1,287	1,289	1,291	1,293	1,295	1,297	1,299	1,301	1,302	1,304	1,306	1,308	1,310	1,312	1,314	1,316	1,318	1,320

Grand Total for Well Drilling - Future Years	3,966	3,970	3,976	3,982	3,988	3,994	4,000	4,006	4,012	4,018	4,024	4,030	4,036	4,042	4,048	4,054	4,060	4,066	4,071	4,077	4,083

Western Planning Zone - Baseline Well Abandonment Counts and Well Abandonment Counts for Future Years (2015 through 2035)

Western Zone Baseline Plugging & Abandonment (2012)				Western Kern County Planning Zone - Plugging and Abandon Well Counts for Future Years by Well Depth (2015 through 2035)																		
Depth Category	Ave. Depth	Well Count	Percent	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
1,000	783	80	4.26	80	84	86	88	90	92	93	95	96	98	99	100	101	102	103	104	105	106	107	107	108
2,000	1,550	974	51.81	972	1,020	1,046	1,071	1,093	1,114	1,134	1,153	1,171	1,187	1,203	1,217	1,231	1,244	1,256	1,267	1,278	1,289	1,298	1,307	1,316
3,000	2,397	639	33.99	638	669	686	702	717	731	744	756	768	779	789	799	808	816	824	832	839	845	852	858	863
4,000	3,430	136	7.23	136	142	146	149	153	156	158	161	163	166	168	170	172	174	175	177	178	180	181	183	184
5,000	4,525	26	1.38	26	27	28	29	29	30	30	31	31	32	32	32	33	33	34	34	34	34	35	35	35
6,000	5,575	7	0.37	7	7	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9
7,000	6,335	4	0.21	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
8,000	7,186	3	0.16	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4
9,000	8,860	1	0.05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10,000	9,731	4	0.21	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
11,000	10,700	1	0.05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12,000	11,729	2	0.11	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3
13,000	12,850	1	0.05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14,000	13,472	1	0.05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15,000	14,499	1	0.05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Wells Convertd from Idle Status to Abandoned				38	38	39	40	41	42	43	44	45	45	46	46	47	48	48	48	49	49	50	50	50
Total or Average	2,073	1,880	100.00	1877	1969	2020	2066	2110	2151	2190	2226	2260	2291	2321	2349	2376	2401	2424	2446	2467	2487	2506	2523	2540

Central Planning Zone - Baseline Well Abandonment Counts and Well Abandonment Counts for Future Years (2015 through 2035)

Central Zone Baseline Plugging & Abandonment (2012)				Central Kern County Planning Zone - Plugging and Abandon Well Counts for Future Years by Well Depth (2015 through 2035)																		
Depth Category	Ave. Depth	Well Count	Percent	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
5,000	4,683	2	22.22	9	11	13	15	17	18	19	21	22	23	23	24	25	26	26	27	27	28	28	28	29
6,000	5,005	1	11.11	4	6	7	8	8	9	10	10	11	11	12	12	13	13	13	13	14	14	14	14	14
8,000	7,803	2	22.22	9	11	13	15	17	18	19	21	22	23	23	24	25	26	26	27	27	28	28	28	29
9,000	8,096	2	22.22	9	11	13	15	17	18	19	21	22	23	23	24	25	26	26	27	27	28	28	28	29
11,000	10,300	1	11.11	4	6	7	8	8	9	10	10	11	11	12	12	13	13	13	13	14	14	14	14	14
12,000	11,449	1	11.11	4	6	7	8	8	9	10	10	11	11	12	12	13	13	13	13	14	14	14	14	14
Wells Convertd from Idle Status to Abandoned				1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3
Total or Average	7,546	9	100.00	40	51	60	68	75	82	87	93	98	102	106	109	113	115	118	120	123	125	126	128	129

Eastern Planning Zone - Baseline Well Abandonment Counts and Well Abandonment Counts for Future Years (2015 through 2035)

Eastern Zone Baseline Plugging & Abandonment (2012)				Eastern Kern County Planning Zone - Plugging and Abandon Well Counts for Future Years by Well Depth (2015 through 2035)																		
Depth Category	Ave. Depth	Well Count	Percent	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
1,000	795	57	26.51	95	103	110	116	122	128	134	140	145	151	156	161	166	171	176	181	185	190	194	199	203
2,000	1,344	111	51.63	185	201	214	226	238	249	261	272	283	293	304	314	324	333	343	352	361	370	378	387	395
3,000	2,450	39	18.14	65	71	75	79	84	88	92	95	99	103	107	110	114	117	120	124	127	130	133	136	139
4,000	3,145	1	0.47	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	4
6,000	5,469	2	0.93	3	4	4	4	4	4	5	5	5	5	5	6	6	6	6	6	7	7	7	7	7
7,000	6,089	1	0.47	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	4
10,000	9,098	2	0.93	3	4	4	4	4	4	5	5	5	5	5	6	6	6	6	6	7	7	7	7	7
12,000	11,723	1	0.47	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	4
13,000	12,469	1	0.47	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	4
Wells Convertd from Idle Status to Abandoned				4	7	8	8	9	9	10	10	11	11	11	12	12	13	13	13	14	14	14	15	15
Total or Average	1,640	215	100.00	358	390	414	438	461	483	505	526	547	568	588	608	627	645	664	682	699	716	733	749	765

Grand Total for Well Abandonment - Future Years	2,275	2,409	2,493	2,572	2,646	2,716	2,782	2,845	2,905	2,961	3,015	3,066	3,115	3,162	3,206	3,249	3,289	3,328	3,365	3,401	3,435

Western Planning Zone - Baseline Well Pulling Counts and Well Counts for Future Year Well Pulling (2015 through 2035)

Western Zone Baseline Well Pulling (2012)				Western Zone - Routine Well Pulling - Assume That 50% of the Wells Are Pulled Each Year																			
Depth Category	Ave. Depth	Well Count	Percent	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
1,000	734	1,393	9.99	1,433	1,469	1,503	1,535	1,565	1,593	1,619	1,644	1,667	1,688	1,709	1,728	1,746	1,763	1,779	1,795	1,809	1,822	1,835	1,847	1,859
2,000	1,478	7,221	51.81	7,432	7,620	7,796	7,960	8,115	8,260	8,396	8,523	8,643	8,756	8,862	8,961	9,055	9,144	9,227	9,306	9,380	9,450	9,517	9,579	9,639
3,000	2,440	2,531	18.16	2,605	2,671	2,732	2,790	2,844	2,895	2,943	2,987	3,029	3,069	3,106	3,141	3,174	3,205	3,234	3,262	3,288	3,312	3,336	3,358	3,378
4,000	3,367	1,076	7.72	1,107	1,135	1,162	1,186	1,209	1,231	1,251	1,270	1,288	1,305	1,320	1,335	1,349	1,363	1,375	1,387	1,398	1,408	1,418	1,427	1,436
5,000	4,493	349	2.50	359	368	376	384	392	399	405	411	417	423	428	432	437	441	445	449	453	456	459	462	465
6,000	5,468	243	1.74	250	256	262	267	273	277	282	286	290	294	298	301	304	307	310	313	315	317	320	322	324
7,000	6,566	313	2.24	322	330	337	345	351	357	363	369	374	379	384	388	392	396	399	403	406	409	412	415	417
8,000	7,468	339	2.43	349	358	366	374	381	388	394	400	406	411	416	421	425	429	433	437	440	444	447	450	453
9,000	8,457	146	1.04	150	154	157	160	164	166	169	172	174	176	179	181	182	184	186	188	189	190	192	193	194
10,000	9,476	162	1.16	167	171	175	179	182	185	188	191	194	196	199	201	203	205	207	209	210	212	214	215	216
11,000	10,416	60	0.43	62	63	65	66	67	69	70	71	72	73	74	74	75	76	77	77	78	79	79	80	80
12,000	11,562	38	0.27	39	40	41	42	43	43	44	45	45	46	47	47	48	48	49	49	49	50	50	50	51
13,000	12,445	40	0.28	41	42	43	44	44	45	46	47	47	48	48	49	50	50	50	51	51	52	52	52	53
14,000	13,497	18	0.13	19	19	19	20	20	21	21	21	22	22	22	22	23	23	23	23	23	24	24	24	24
15,000	14,380	6	0.04	6	6	6	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8
16,000	15,177	1	0.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17,000	16,502	1	0.01	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18,000	17,914	1	0.01	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19,000	18,438	1	0.01	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20,000	19,159	1	0.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25,000	24,426	1	0.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total or Average	2,418	13,937	100.00	14,347	14,708	15,046	15,365	15,663	15,942	16,204	16,450	16,681	16,899	17,105	17,294	17,477	17,648	17,808	17,963	18,103	18,239	18,369	18,488	18,603

Central Planning Zone - Baseline Well Pulling Counts and Well Counts for Future Year Well Pulling (2015 through 2035)

Central Zone Baseline Well Pulling (2012)				Central Zone - Routine Well Pulling - Assume That 50% of the Wells Are Pulled Each Year																			
Depth Category	Ave. Depth	Well Count	Percent	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
4,000	3,706	6	2.91	7	9	10	11	12	13	14	14	15	16	16	17	17	17	18	18	18	19	19	19	19
5,000	4,674	16	7.75	20	23	27	29	32	34	36	38	40	41	43	44	45	46	47	48	49	50	50	51	51
6,000	5,325	7	3.15	8	10	11	12	13	14	15	16	16	17	17	18	18	19	19	20	20	20	20	21	21
7,000	6,335	4	1.69	4	5	6	6	7	8	8	8	9	9	9	10	10	10	10	11	11	11	11	11	11
8,000	7,677	35	16.71	43	51	57	63	69	74	78	83	86	89	92	95	98	100	102	104	105	107	108	109	110
9,000	8,377	21	10.17	26	31	35	39	42	45	48	50	52	54	56	58	59	61	62	63	64	65	66	67	67
10,000	9,704	17	8.23	21	25	28	31	34	36	39	41	42	44	46	47	48	49	50	51	52	53	53	54	54
11,000	10,483	22	10.41	27	31	36	40	43	46	49	51	54	56	58	59	61	62	63	65	66	67	67	68	69
12,000	11,524	52	24.94	64	75	86	95	103	110	117	123	129	134	138	142	146	149	152	155	157	159	161	163	165
13,000	12,467	20	9.44	24	29	32	36	39	42	44	47	49	51	52	54	55	56	58	59	60	60	61	62	62
14,000	13,530	9	4.12	11	12	14	16	17	18	19	20	21	22	23	23	24	25	25	26	26	26	27	27	27
15,000	14,829	1	0.24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
16,000	15,866	1	0.24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
Total or Average	9,452	207	100.00	257	303	344	380	413	442	469	493	515	535	552	569	583	596	608	624	632	641	647	656	660

Eastern Planning Zone - Baseline Well Pulling Counts and Well Counts for Future Year Well Pulling (2015 through 2035)

Eastern Zone Baseline Well Pulling (2012)				Eastern Zone - Routine Well Pulling - Assume That 50% of the Wells Are Pulled Each Year																		
Depth Category	Ave. Depth	Well Count	Percent	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
1,000	827	1,789	24.26	1,910	2,028	2,143	2,255	2,365	2,472	2,577	2,680	2,780	2,878	2,974	3,068	3,160	3,249	3,337	3,422	3,506	3,588	3,668	3,746	3,823
2,000	1,337	4,018	54.50	4,290	4,555	4,813	5,066	5,313	5,554	5,790	6,020	6,246	6,466	6,681	6,892	7,097	7,298	7,495	7,687	7,875	8,059	8,239	8,415	8,587
3,000	2,453	925	12.55	988	1,049	1,108	1,166	1,223	1,279	1,333	1,386	1,438	1,489	1,538	1,587	1,634	1,680	1,726	1,770	1,813	1,856	1,897	1,938	1,977
4,000	3,440	223	3.02	238	252	267	281	294	308	321	333	346	358	370	382	393	404	415	426	436	446	456	466	476
5,000	4,458	232	3.15	248	263	278	293	307	321	334	348	361	373	386	398	410	421	433	444	455	465	476	486	496
6,000	5,493	110	1.49	117	124	131	138	145	151	158	164	170	176	182	188	193	199	204	210	215	220	225	229	234
7,000	6,334	41	0.56	44	46	49	52	54	57	59	61	64	66	68	70	72	74	76	78	80	82	84	86	88
8,000	7,396	9	0.12	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	18	19	19
9,000	8,554	10	0.13	10	11	11	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	19	20	20
10,000	9,453	5	0.06	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	9	10
11,000	10,170	2	0.03	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4
12,000	11,359	8	0.11	9	9	10	10	11	11	12	12	12	13	13	14	14	15	15	15	16	16	16	17	17
13,000	12,181	1	0.01	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2
14,000	13,239	1	0.01	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15,000	14,671	1	0.01	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total or Average	1,643	7,371	100.00	7,874	8,357	8,831	9,296	9,749	10,190	10,623	11,044	11,460	11,862	12,257	12,645	13,022	13,389	13,752	14,104	14,450	14,786	15,115	15,439	15,755
Grand Total for Well Pulling - Future Years				22,478	23,368	24,221	25,041	25,825	26,574	27,296	27,987	28,656	29,296	29,914	30,508	31,082	31,633	32,168	32,691	33,185	33,666	34,131	34,583	35,018

Western Planning Zone - Baseline Well Rework and Well Rework Counts for Future Years (2015 through 2035)

Western Zone Baseline Well Rework (2012)				Western Kern County Planning Zone - Well Rework Counts for Future Years by Well Depth (2015 through 2035)																		
Depth Category	Ave. Depth	Well Count	Percent	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
1,000	607	202	15.56	231	236	241	245	250	254	258	261	265	268	271	273	276	279	281	283	285	287	289	291	292
2,000	1,498	552	42.53	630	645	658	671	683	694	704	714	723	732	740	747	754	761	768	774	779	785	790	794	799
3,000	2,469	179	13.79	204	209	213	217	221	225	228	231	234	237	240	242	245	247	249	251	253	254	256	258	259
4,000	3,312	118	9.09	135	138	141	143	146	148	150	153	155	156	158	160	161	163	164	165	167	168	169	170	171
5,000	4,554	47	3.62	54	55	56	57	58	59	60	61	62	62	63	64	64	65	65	66	66	67	67	68	68
6,000	5,468	34	2.62	39	40	41	41	42	43	43	44	45	45	46	46	46	47	47	48	48	48	49	49	49
7,000	6,570	26	2.00	30	30	31	32	32	33	33	34	34	34	35	35	36	36	36	36	37	37	37	37	38
8,000	7,539	43	3.31	49	50	51	52	53	54	55	56	56	57	58	58	59	59	60	60	61	61	62	62	62
9,000	8,538	37	2.85	42	43	44	45	46	46	47	48	48	49	50	50	51	51	51	52	52	53	53	53	54
10,000	9,430	28	2.16	32	33	33	34	35	35	36	36	37	37	38	38	38	39	39	39	40	40	40	40	41
11,000	10,490	19	1.46	22	22	23	23	23	24	24	25	25	25	25	26	26	26	26	27	27	27	27	27	28
12,000	11,534	4	0.31	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6
13,000	12,465	6	0.46	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9
14,000	13,563	3	0.23	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Idle Wells Reworked and Placed In Service				146	146	146	146	146	146	146	146	146	146	146	146	146	146	146	146	146	146	146	146	146
Total or Average	2,787	1,298	100.00	1,629	1,663	1,694	1,722	1,751	1,778	1,801	1,826	1,847	1,865	1,887	1,902	1,919	1,937	1,950	1,965	1,979	1,992	2,004	2,014	2,026

Central Planning Zone - Baseline Well Rework and Well Rework Counts for Future Years (2015 through 2035)

Central Zone Baseline Well Rework (2012)				Central Kern County Planning Zone - Well Rework Counts for Future Years by Well Depth (2015 through 2035)																		
Depth Category	Ave. Depth	Well Count	Percent	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
5,000	4,730	3	9.09	4	5	5	6	6	7	7	7	8	8	8	8	9	9	9	9	9	9	10	10	10
6,000	5,286	1	3.03	1	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3
7,000	6,505	4	12.12	5	6	7	8	8	9	9	10	10	11	11	11	12	12	12	12	12	13	13	13	13
9,000	8,332	5	15.15	7	8	9	10	10	11	12	12	13	13	14	14	14	15	15	15	16	16	16	16	16
10,000	9,300	1	3.03	1	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3
11,000	10,448	10	30.30	13	15	17	19	21	22	23	25	26	27	27	28	29	30	30	31	31	32	32	32	33
12,000	11,392	8	24.24	10	12	14	15	17	18	19	20	21	21	22	23	23	24	24	25	25	25	26	26	26
13,000	12,555	1	3.03	1	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3
Idle Wells Reworked and Placed In Service				2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Total or Average	9,231	33	100.00	44	54	60	66	70	75	78	82	89	91	93	95	98	101	101	103	104	106	108	108	109

Eastern Planning Zone - Baseline Well Rework and Well Rework Counts for Future Years (2015 through 2035)

Eastern Zone Baseline Well Rework(2012)				Eastern Kern County Planning Zone - Well Rework Counts for Future Years by Well Depth (2015 through 2035)																			
Depth Category	Ave. Depth	Well Count	Percent	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
1,000	844	90	14.68	107	113	119	125	130	136	141	146	151	156	161	166	170	175	179	184	188	192	196	200	204
2,000	1,411	384	62.64	459	484	509	533	556	579	602	624	645	666	687	707	727	746	765	783	801	819	836	853	869
3,000	2,358	111	18.11	133	140	147	154	161	167	174	180	187	193	199	204	210	216	221	226	232	237	242	247	251
4,000	3,357	11	1.79	13	14	15	15	16	17	17	18	18	19	20	20	21	21	22	22	23	23	24	24	25
5,000	4,451	8	1.31	10	10	11	11	12	12	13	13	13	14	14	15	15	16	16	16	17	17	17	18	18
6,000	5,595	5	0.82	6	6	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11
7,000	6,513	4	0.65	5	5	5	6	6	6	6	6	7	7	7	7	8	8	8	8	8	9	9	9	9
Idle Wells Reworked and Placed In Service				77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77
Total or Average	1,641	613	100.00	810	849	890	928	965	1,002	1,038	1,072	1,106	1,141	1,174	1,205	1,237	1,269	1,298	1,326	1,356	1,385	1,412	1,439	1,464

Grand Total for Well Pulling - Future Years	2,484	2,567	2,645	2,717	2,787	2,856	2,918	2,981	3,043	3,098	3,155	3,203	3,255	3,308	3,350	3,395	3,440	3,484	3,525	3,562	3,600

Western Planning Zone - Baseline Hydraulic Stimulation Counts and Hydraulic Stimulation for Future Years (2015 through 2035)

Western Zone Baseline Hydraulic Stimulation (2012)				Western Kern County Planning Zone - Hydraulic Stimulation for Future Years by Well Depth (2015 through 2035)																		
Depth Category	Ave. Depth	Well Count	Percent	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
2,000	1,707.19	205	49.52	548	552	557	561	566	569	573	576	580	583	586	588	592	594	597	599	601	603	606	607	610
3,000	2,534.60	141	34.06	376	380	383	385	389	391	394	397	399	401	403	405	407	409	410	412	413	416	417	418	420
4,000	3,369.27	33	7.97	88	89	90	90	91	92	92	93	93	93	95	95	96	96	96	96	97	97	97	98	98
5,000	4,307.46	13	3.14	35	35	35	35	36	36	36	36	36	37	37	38	38	38	38	38	38	39	39	39	39
6,000	5,639.00	2	0.48	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6
7,000	6,701.29	7	1.69	18	18	19	19	19	19	19	20	20	20	20	21	21	21	21	21	21	21	21	21	21
8,000	7,380.33	3	0.72	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9
9,000	8,533.50	6	1.45	16	16	17	17	17	17	17	17	17	17	17	17	17	17	17	18	18	18	18	18	18
10,000	9,725.50	2	0.48	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6
11,000	10,836.00	1	0.24	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
13,000	12,075.00	1	0.24	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Total or Average	2,532	414	100.00	1105	1114	1125	1131	1142	1148	1155	1164	1170	1176	1183	1189	1196	1200	1204	1211	1215	1221	1225	1228	1233

Central Planning Zone - Baseline Hydraulic Stimulation Counts and Hydraulic Stimulation for Future Years (2015 through 2035)

Central Zone Baseline Hydraulic Stimulation (2012)				Central Kern County Planning Zone - Hydraulic Stimulation for Future Years by Well Depth (2015 through 2035)																		
Depth Category	Ave. Depth	Well Count	Percent	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
8000	7,757.25	12	42.86	54	57	59	61	62	63	64	65	67	68	69	69	70	71	71	72	72	72	73	73	73
9000	8,185.50	14	50.00	63	67	69	71	72	74	75	76	79	79	80	81	82	83	83	84	84	85	85	85	86
12000	11,200.00	1	3.57	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6
13000	12,088.00	1	3.57	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6
Total or Average	8,249	28	100.00	125	132	136	142	144	147	149	151	156	157	159	160	162	164	164	168	168	169	170	170	171

Eastern Planning Zone - Baseline Hydraulic Stimulation Counts and Hydraulic Stimulation for Future Years (2015 through 2035)

Eastern Zone Baseline Hydraulic Stimulation (2012)				Eastern Kern County Planning Zone - Hydraulic Stimulation for Future Years by Well Depth (2015 through 2035)																		
Depth Category	Ave. Depth	Well Count	Percent	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
1,000	687	0	3.77	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2,000	1,573	0	33.67	9	10	10	10	10	10	10	11	11	11	11	11	11	11	12	12	12	12	12	12	12
3,000	2,361	0	40.95	11	11	12	12	12	12	12	13	13	13	13	13	13	14	14	14	14	14	14	15	15
4,000	3,374	0	8.29	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3
5,000	4,526	0	9.67	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4
6,000	5,294	0	2.89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
7,000	6,387	0	0.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8,000	7,665	0	0.38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15,000	14,250	0	0.13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total or Average	0	0	100.00	26	27	28	28	28	28	29	31	31	31	31	31	32	33	34	34	35	35	35	37	37

Grand Total for Hydraulic Stimulation - Future Years	1,256	1,273	1,289	1,301	1,314	1,323	1,333	1,346	1,357	1,364	1,373	1,380	1,390	1,397	1,402	1,413	1,418	1,425	1,430	1,435	1,441

Routine Business Activity - Operations Employment and Vehicle Trips for Oil and Gas Production - Trips per Day

Project Year	Active Wells				Operations Employment By Zone				Employee Commuter Trips				Freight and Supplies Trips			
	Total	Western	Central	Eastern	Total	Western	Central	Eastern	Total	Western	Central	Eastern	Total	Western	Central	Eastern
2012	43,028	27,873	413	14,742	6,864	4,446	66	2,352	10,169	6,587	98	3,484	559	362	5	192
2015	44,945	28,688	514	15,743	7,170	4,577	82	2,511	10,622	6,781	121	3,720	584	373	7	205
2016	46,731	29,413	605	16,714	7,455	4,692	96	2,666	11,043	6,951	142	3,950	608	382	8	217
2017	48,440	30,091	686	17,662	7,727	4,800	109	2,817	11,446	7,111	161	4,173	630	391	9	230
2018	50,076	30,727	760	18,589	7,988	4,902	121	2,965	11,834	7,262	179	4,393	651	400	10	242
2019	51,644	31,323	826	19,494	8,238	4,997	132	3,110	12,206	7,403	196	4,607	671	407	11	253
2020	53,148	31,883	886	20,380	8,478	5,086	141	3,251	12,560	7,535	209	4,816	691	415	11	265
2021	54,592	32,407	939	21,245	8,709	5,170	150	3,389	12,902	7,659	222	5,021	710	421	12	276
2022	55,979	32,900	988	22,091	8,930	5,248	158	3,524	13,230	7,775	234	5,221	728	428	13	287
2023	57,312	33,362	1,032	22,918	9,143	5,322	165	3,656	13,545	7,884	244	5,416	745	434	13	298
2024	58,594	33,797	1,071	23,726	9,347	5,391	171	3,785	13,847	7,987	253	5,607	762	439	14	308
2025	59,829	34,206	1,106	24,517	9,544	5,457	176	3,911	14,139	8,084	261	5,794	778	445	14	319
2026	61,018	34,591	1,139	25,288	9,734	5,518	182	4,034	14,421	8,175	270	5,976	793	450	15	329
2027	62,165	34,953	1,169	26,043	9,917	5,576	186	4,155	14,692	8,261	276	6,156	808	454	15	339
2028	63,271	35,295	1,196	26,781	10,093	5,630	191	4,272	14,953	8,341	283	6,329	823	459	16	348
2029	64,338	35,617	1,220	27,502	10,264	5,682	195	4,387	15,206	8,418	289	6,499	837	463	16	358
2030	65,370	35,920	1,241	28,208	10,428	5,730	198	4,500	15,449	8,489	293	6,667	850	467	16	367
2031	66,366	36,207	1,261	28,898	10,587	5,776	201	4,610	15,684	8,557	298	6,830	863	471	16	376
2032	67,330	36,478	1,278	29,573	10,741	5,819	204	4,718	15,913	8,621	302	6,990	875	474	17	385
2033	68,261	36,734	1,294	30,233	10,889	5,860	206	4,823	16,132	8,681	305	7,145	887	478	17	393
2034	69,163	36,976	1,309	30,879	11,033	5,898	209	4,926	16,345	8,738	310	7,298	899	481	17	401
2035	70,037	37,205	1,321	31,511	11,173	5,935	211	5,027	16,553	8,793	313	7,447	911	484	17	410

Routine Business Activity - Change in Operations Employment for Oil and Gas Production - Trips per Day

Project Year	Active Wells				Operations Employment By Zone				Employee Commuter Trips per Year				Freight and Supplies Trips per Year			
	Total	Western	Central	Eastern	Total	Western	Central	Eastern	Total	Western	Central	Eastern	Total	Western	Central	Eastern
2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2015	1,917	815	101	1,001	306	131	16	159	453	194	24	236	25	11	1	13
2016	3,703	1,540	192	1,972	591	246	30	314	874	364	44	465	48	20	2	26
2017	5,412	2,218	273	2,920	863	354	43	465	1,277	524	64	689	70	29	4	38
2018	7,048	2,854	347	3,847	1,124	456	55	613	1,665	676	81	908	92	37	4	50
2019	8,616	3,450	413	4,752	1,374	551	66	758	2,037	816	98	1,123	112	45	5	62
2020	10,120	4,010	473	5,638	1,614	640	75	899	2,391	948	111	1,332	132	52	6	73
2021	11,564	4,534	526	6,503	1,845	724	84	1,037	2,733	1,073	124	1,536	150	59	7	85
2022	12,951	5,027	575	7,349	2,066	802	92	1,172	3,061	1,188	136	1,736	168	65	7	96
2023	14,284	5,489	619	8,176	2,279	876	99	1,304	3,376	1,298	147	1,932	186	71	8	106
2024	15,566	5,924	658	8,984	2,483	945	105	1,433	3,679	1,400	156	2,123	202	77	9	117
2025	16,801	6,333	693	9,775	2,680	1,011	110	1,559	3,970	1,498	163	2,310	218	82	9	127
2026	17,990	6,718	726	10,546	2,870	1,072	116	1,682	4,252	1,588	172	2,492	234	87	9	137
2027	19,137	7,080	756	11,301	3,053	1,130	120	1,803	4,523	1,674	178	2,671	249	92	10	147
2028	20,243	7,422	783	12,039	3,229	1,184	125	1,920	4,784	1,754	185	2,844	263	96	10	156
2029	21,310	7,744	807	12,760	3,400	1,236	129	2,035	5,037	1,831	191	3,015	277	101	11	166
2030	22,342	8,047	828	13,466	3,564	1,284	132	2,148	5,280	1,902	196	3,182	290	105	11	175
2031	23,338	8,334	848	14,156	3,723	1,330	135	2,258	5,516	1,970	200	3,345	303	108	11	184
2032	24,302	8,605	865	14,831	3,877	1,373	138	2,366	5,744	2,034	204	3,505	316	112	11	193
2033	25,233	8,861	881	15,491	4,025	1,414	140	2,471	5,963	2,095	207	3,661	328	115	11	201
2034	26,135	9,103	896	16,137	4,169	1,452	143	2,574	6,176	2,151	212	3,813	340	118	12	210
2035	27,009	9,332	908	16,769	4,309	1,489	145	2,675	6,384	2,206	215	3,963	351	121	12	218

		INS/WEEK	
TRIPS (D=Day, Default = Year (251 Work Days/Yea	D	3	0.00622
Average Distance Between Wells	0.107	0.4895	0.0992

200 Wells per Inspection Trip (i.e. Well String)

Well Surveillance - Vehicle Trips per Day

Project Year	Active Wells				Well Surveillance Trips				Change in Well Surveillance Trips			
	Total	Western	Central	Eastern	Total	Western	Central	Eastern	Total	Western	Central	Eastern
2012	43,028	27,873	413	14,742	268	173	3	92	0	0	0	0
2015	44,945	28,688	514	15,743	279	178	3	98	11	5	0	6
2016	46,731	29,413	605	16,714	291	183	4	104	23	10	1	12
2017	48,440	30,091	686	17,662	301	187	4	110	33	14	1	18
2018	50,076	30,727	760	18,589	312	191	5	116	44	18	2	24
2019	51,644	31,323	826	19,494	321	195	5	121	53	22	2	29
2020	53,148	31,883	886	20,380	331	198	6	127	63	25	3	35
2021	54,592	32,407	939	21,245	339	201	6	132	71	28	3	40
2022	55,979	32,900	988	22,091	347	204	6	137	79	31	3	45
2023	57,312	33,362	1,032	22,918	355	207	6	142	87	34	3	50
2024	58,594	33,797	1,071	23,726	364	210	7	147	96	37	4	55
2025	59,829	34,206	1,106	24,517	372	213	7	152	104	40	4	60
2026	61,018	34,591	1,139	25,288	379	215	7	157	111	42	4	65
2027	62,165	34,953	1,169	26,043	386	217	7	162	118	44	4	70
2028	63,271	35,295	1,196	26,781	392	219	7	166	124	46	4	74
2029	64,338	35,617	1,220	27,502	400	221	8	171	132	48	5	79
2030	65,370	35,920	1,241	28,208	406	223	8	175	138	50	5	83
2031	66,366	36,207	1,261	28,898	413	225	8	180	145	52	5	88
2032	67,330	36,478	1,278	29,573	419	227	8	184	151	54	5	92
2033	68,261	36,734	1,294	30,233	424	228	8	188	156	55	5	96
2034	69,163	36,976	1,309	30,879	430	230	8	192	162	57	5	100
2035	70,037	37,205	1,321	31,511	435	231	8	196	167	58	5	104

Well Surveillance - Vehicle Miles Traveled per Day

Project Year	Total Onsite Travel				Onsite Paved Roads				Onsite Unpaved Roads			
	Total	Western	Central	Eastern	Total	Western	Central	Eastern	Total	Western	Central	Eastern
2012	29.11	18.51	1.47	9.13	2.91	1.85	0.15	0.91	26.20	16.66	1.32	8.21
2015	30.24	19.05	1.47	9.72	3.02	1.90	0.15	0.97	27.21	17.14	1.32	8.75
2016	31.86	19.58	1.96	10.32	3.19	1.96	0.20	1.03	28.67	17.62	1.76	9.29
2017	32.88	20.01	1.96	10.91	3.29	2.00	0.20	1.09	29.59	18.01	1.76	9.82
2018	34.39	20.44	2.45	11.51	3.44	2.04	0.24	1.15	30.95	18.39	2.20	10.36
2019	35.32	20.87	2.45	12.00	3.53	2.09	0.24	1.20	31.78	18.78	2.20	10.80
2020	36.72	21.19	2.94	12.60	3.67	2.12	0.29	1.26	33.05	19.07	2.64	11.34
2021	37.54	21.51	2.94	13.09	3.75	2.15	0.29	1.31	33.78	19.36	2.64	11.78
2022	38.36	21.83	2.94	13.59	3.84	2.18	0.29	1.36	34.52	19.65	2.64	12.23
2023	39.17	22.15	2.94	14.09	3.92	2.21	0.29	1.41	35.26	19.93	2.64	12.68
2024	40.48	22.47	3.43	14.58	4.05	2.25	0.34	1.46	36.43	20.22	3.08	13.12
2025	41.30	22.79	3.43	15.08	4.13	2.28	0.34	1.51	37.17	20.51	3.08	13.57
2026	42.01	23.01	3.43	15.57	4.20	2.30	0.34	1.56	37.81	20.70	3.08	14.02
2027	42.72	23.22	3.43	16.07	4.27	2.32	0.34	1.61	38.44	20.90	3.08	14.46
2028	43.33	23.43	3.43	16.47	4.33	2.34	0.34	1.65	38.99	21.09	3.08	14.82
2029	44.53	23.65	3.92	16.96	4.45	2.36	0.39	1.70	40.07	21.28	3.52	15.27
2030	45.14	23.86	3.92	17.36	4.51	2.39	0.39	1.74	40.62	21.47	3.52	15.62
2031	45.85	24.08	3.92	17.86	4.58	2.41	0.39	1.79	41.26	21.67	3.52	16.07
2032	46.46	24.29	3.92	18.25	4.65	2.43	0.39	1.83	41.81	21.86	3.52	16.43
2033	46.96	24.40	3.92	18.65	4.70	2.44	0.39	1.86	42.27	21.96	3.52	16.78
2034	47.57	24.61	3.92	19.05	4.76	2.46	0.39	1.90	42.82	22.15	3.52	17.14
2035	48.08	24.72	3.92	19.44	4.81	2.47	0.39	1.94	43.27	22.25	3.52	17.50

Well Surveillance - Change in Vehicle Miles Traveled per Day

Project Year	Total Onsite Travel				Onsite Paved Roads				Onsite Unpaved Roads			
	Total	Western	Central	Eastern	Total	Western	Central	Eastern	Total	Western	Central	Eastern
2012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2015	1.13	0.54	0.00	0.60	0.11	0.05	0.00	0.06	1.02	0.48	0.00	0.54
2016	2.75	1.07	0.49	1.19	0.27	0.11	0.05	0.12	2.47	0.96	0.44	1.07
2017	3.77	1.50	0.49	1.79	0.38	0.15	0.05	0.18	3.40	1.35	0.44	1.61
2018	5.29	1.93	0.98	2.38	0.53	0.19	0.10	0.24	4.76	1.73	0.88	2.14
2019	6.21	2.35	0.98	2.88	0.62	0.24	0.10	0.29	5.59	2.12	0.88	2.59
2020	7.62	2.68	1.47	3.47	0.76	0.27	0.15	0.35	6.85	2.41	1.32	3.12
2021	8.43	3.00	1.47	3.97	0.84	0.30	0.15	0.40	7.59	2.70	1.32	3.57
2022	9.25	3.32	1.47	4.46	0.92	0.33	0.15	0.45	8.32	2.99	1.32	4.02
2023	10.07	3.64	1.47	4.96	1.01	0.36	0.15	0.50	9.06	3.27	1.32	4.46
2024	11.37	3.96	1.96	5.46	1.14	0.40	0.20	0.55	10.24	3.56	1.76	4.91
2025	12.19	4.28	1.96	5.95	1.22	0.43	0.20	0.60	10.97	3.85	1.76	5.36
2026	12.90	4.49	1.96	6.45	1.29	0.45	0.20	0.64	11.61	4.04	1.76	5.80
2027	13.61	4.71	1.96	6.94	1.36	0.47	0.20	0.69	12.25	4.24	1.76	6.25
2028	14.22	4.92	1.96	7.34	1.42	0.49	0.20	0.73	12.80	4.43	1.76	6.61
2029	15.42	5.14	2.45	7.84	1.54	0.51	0.24	0.78	13.88	4.62	2.20	7.05
2030	16.03	5.35	2.45	8.23	1.60	0.54	0.24	0.82	14.43	4.82	2.20	7.41
2031	16.74	5.56	2.45	8.73	1.67	0.56	0.24	0.87	15.07	5.01	2.20	7.86
2032	17.35	5.78	2.45	9.13	1.74	0.58	0.24	0.91	15.62	5.20	2.20	8.21
2033	17.86	5.89	2.45	9.52	1.79	0.59	0.24	0.95	16.07	5.30	2.20	8.57
2034	18.47	6.10	2.45	9.92	1.85	0.61	0.24	0.99	16.62	5.49	2.20	8.93
2035	18.97	6.21	2.45	10.32	1.90	0.62	0.24	1.03	17.07	5.59	2.20	9.29

		FAC INS/WEEK	
TRIPS (D=Day, Default = Year (251 Work Days/Year)	D	3	1
Average Distance Between Facilities	0.107	0.4895	0.0992

FROM NUMBER OF NEW PERMITS DISTRIBUTED LONEARLY OVER TIME

Equipment Operations and Inspection - Vehicle Trips per Day

Project Year	Equipment Trips				Change in Facility Inspection Trips			
	Total	Western	Central	Eastern	Total	Western	Central	Eastern
2012	1,322	1,056	16	250	0	0	0	0
2015	1,370	1,089	18	262	48	34	2	13
2016	1,419	1,123	21	275	97	67	5	25
2017	1,467	1,156	23	288	145	101	7	38
2018	1,516	1,190	25	300	194	134	9	50
2019	1,564	1,223	28	313	242	168	12	63
2020	1,612	1,257	30	325	290	201	14	75
2021	1,661	1,290	32	338	339	235	16	88
2022	1,709	1,324	35	350	387	268	18	101
2023	1,757	1,357	37	363	436	302	21	113
2024	1,806	1,391	39	376	484	335	23	126
2025	1,854	1,424	42	388	532	369	25	138
2026	1,903	1,458	44	401	581	402	28	151
2027	1,951	1,491	46	413	629	436	30	164
2028	1,999	1,525	48	426	677	469	32	176
2029	2,048	1,558	51	439	726	503	35	189
2030	2,096	1,592	53	451	774	536	37	201
2031	2,145	1,625	55	464	823	570	39	214
2032	2,193	1,659	58	476	871	603	42	226
2033	2,241	1,692	60	489	919	637	44	239
2034	2,290	1,726	62	501	968	670	46	252
2035	2,338	1,760	65	514	1,016	704	48	264

Equipment Operations and Inspection - Vehicle Miles Traveled per Day

Project Year	Total Onsite Travel				Onsite Paved Roads				Onsite Unpaved Roads			
	Total	Western	Central	Eastern	Total	Western	Central	Eastern	Total	Western	Central	Eastern
2012	145.68	112.99	7.91	24.79	14.57	11.30	0.79	2.48	131.11	101.69	7.12	22.31
2015	151.64	116.57	9.04	26.03	15.16	11.66	0.90	2.60	136.48	104.91	8.14	23.43
2016	157.61	120.16	10.17	27.28	15.76	12.02	1.02	2.73	141.85	108.14	9.15	24.55
2017	163.57	123.74	11.30	28.53	16.36	12.37	1.13	2.85	147.21	111.37	10.17	25.68
2018	169.53	127.33	12.43	29.78	16.95	12.73	1.24	2.98	152.58	114.59	11.19	26.80
2019	175.49	130.91	13.56	31.02	17.55	13.09	1.36	3.10	157.95	117.82	12.20	27.92
2020	181.46	134.50	14.69	32.27	18.15	13.45	1.47	3.23	163.31	121.05	13.22	29.04
2021	187.42	138.08	15.82	33.52	18.74	13.81	1.58	3.35	168.68	124.27	14.24	30.17
2022	193.38	141.66	16.95	34.77	19.34	14.17	1.70	3.48	174.04	127.50	15.26	31.29
2023	199.35	145.25	18.08	36.02	19.93	14.52	1.81	3.60	179.41	130.72	16.27	32.41
2024	205.31	148.83	19.21	37.26	20.53	14.88	1.92	3.73	184.78	133.95	17.29	33.54
2025	211.27	152.42	20.34	38.51	21.13	15.24	2.03	3.85	190.14	137.18	18.31	34.66
2026	217.23	156.00	21.47	39.76	21.72	15.60	2.15	3.98	195.51	140.40	19.32	35.78
2027	223.20	159.59	22.60	41.01	22.32	15.96	2.26	4.10	200.88	143.63	20.34	36.91
2028	229.16	163.17	23.73	42.25	22.92	16.32	2.37	4.23	206.24	146.86	21.36	38.03
2029	235.12	166.76	24.86	43.50	23.51	16.68	2.49	4.35	211.61	150.08	22.37	39.15
2030	241.08	170.34	25.99	44.75	24.11	17.03	2.60	4.47	216.97	153.31	23.39	40.27
2031	247.05	173.93	27.12	46.00	24.70	17.39	2.71	4.60	222.34	156.54	24.41	41.40
2032	253.01	177.51	28.25	47.24	25.30	17.75	2.83	4.72	227.71	159.76	25.43	42.52
2033	258.97	181.10	29.38	48.49	25.90	18.11	2.94	4.85	233.07	162.99	26.44	43.64
2034	264.93	184.68	30.51	49.74	26.49	18.47	3.05	4.97	238.44	166.21	27.46	44.77
2035	270.90	188.27	31.64	50.99	27.09	18.83	3.16	5.10	243.81	169.44	28.48	45.89

Equipment Operation and Inspection - Change in Vehicle Miles Traveled per Day

Project Year	Total Onsite Travel				Onsite Paved Roads				Onsite Unpaved Roads			
	Total	Western	Central	Eastern	Total	Western	Central	Eastern	Total	Western	Central	Eastern
2012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2015	5.96	3.58	1.13	1.25	0.60	0.36	0.11	0.12	5.37	3.23	1.02	1.12
2016	11.93	7.17	2.26	2.50	1.19	0.72	0.23	0.25	10.73	6.45	2.03	2.25
2017	17.89	10.75	3.39	3.74	1.79	1.08	0.34	0.37	16.10	9.68	3.05	3.37
2018	23.85	14.34	4.52	4.99	2.39	1.43	0.45	0.50	21.47	12.91	4.07	4.49
2019	29.81	17.92	5.65	6.24	2.98	1.79	0.57	0.62	26.83	16.13	5.09	5.61
2020	35.78	21.51	6.78	7.49	3.58	2.15	0.68	0.75	32.20	19.36	6.10	6.74
2021	41.74	25.09	7.91	8.73	4.17	2.51	0.79	0.87	37.56	22.58	7.12	7.86
2022	47.70	28.68	9.04	9.98	4.77	2.87	0.90	1.00	42.93	25.81	8.14	8.98
2023	53.66	32.26	10.17	11.23	5.37	3.23	1.02	1.12	48.30	29.04	9.15	10.11
2024	59.63	35.85	11.30	12.48	5.96	3.58	1.13	1.25	53.66	32.26	10.17	11.23
2025	65.59	39.43	12.43	13.73	6.56	3.94	1.24	1.37	59.03	35.49	11.19	12.35
2026	71.55	43.02	13.56	14.97	7.16	4.30	1.36	1.50	64.40	38.72	12.20	13.48
2027	77.51	46.60	14.69	16.22	7.75	4.66	1.47	1.62	69.76	41.94	13.22	14.60
2028	83.48	50.19	15.82	17.47	8.35	5.02	1.58	1.75	75.13	45.17	14.24	15.72
2029	89.44	53.77	16.95	18.72	8.94	5.38	1.70	1.87	80.49	48.39	15.26	16.84
2030	95.40	57.36	18.08	19.96	9.54	5.74	1.81	2.00	85.86	51.62	16.27	17.97
2031	101.36	60.94	19.21	21.21	10.14	6.09	1.92	2.12	91.23	54.85	17.29	19.09
2032	107.33	64.53	20.34	22.46	10.73	6.45	2.03	2.25	96.59	58.07	18.31	20.21
2033	113.29	68.11	21.47	23.71	11.33	6.81	2.15	2.37	101.96	61.30	19.32	21.34
2034	119.25	71.70	22.60	24.96	11.93	7.17	2.26	2.50	107.33	64.53	20.34	22.46
2035	125.21	75.28	23.73	26.20	12.52	7.53	2.37	2.62	112.69	67.75	21.36	23.58

Kern County Idle Wells			
DOGGR Report Year	Total Idle Wells Reported	Change in Wells/Year	Percent Change
1999	12,867	0	0.00
2000	12,581	-286	-2.27
2001	12,726	145	1.14
2002	12,057	-669	-5.55
2003	11,253	-804	-7.14
2004	11,767	514	4.37
2005	11,542	-225	-1.95
2006	11,518	-24	-0.21
2007	11,065	-453	-4.09
2008	11,057	-8	-0.07
2009	10,963	-94	-0.86
2011	11,294	331	2.93
2012	11,826	532	4.50
2013	11,864	38	0.32
2014	12,214	350	2.87
Average	11,773	-44	-0.40

	INS/WEEK		
TRIPS (D=Day, Default = Year (251 Work Days/Year)	D	3	0.006215
Average Distance Between Wells	0.107	0.4895	0.0992

200 Wells per Inspection Trip (i.e. Well String)

Well Treating - Vehicle Trips per Day

Project Year	Active Wells				Chemical Treating				Change In Treating			
	Total	Western	Central	Eastern	Total	Western	Central	Eastern	Total	Western	Central	Eastern
2012	43,028	27,873	413	14,742	268	173	3	92	0	0	0	0
2015	44,945	28,688	514	15,743	279	178	3	98	11	5	0	6
2016	46,731	29,413	605	16,714	291	183	4	104	23	10	1	12
2017	48,440	30,091	686	17,662	301	187	4	110	33	14	1	18
2018	50,076	30,727	760	18,589	312	191	5	116	44	18	2	24
2019	51,644	31,323	826	19,494	321	195	5	121	53	22	2	29
2020	53,148	31,883	886	20,380	331	198	6	127	63	25	3	35
2021	54,592	32,407	939	21,245	339	201	6	132	71	28	3	40
2022	55,979	32,900	988	22,091	347	204	6	137	79	31	3	45
2023	57,312	33,362	1,032	22,918	355	207	6	142	87	34	3	50
2024	58,594	33,797	1,071	23,726	364	210	7	147	96	37	4	55
2025	59,829	34,206	1,106	24,517	372	213	7	152	104	40	4	60
2026	61,018	34,591	1,139	25,288	379	215	7	157	111	42	4	65
2027	62,165	34,953	1,169	26,043	386	217	7	162	118	44	4	70
2028	63,271	35,295	1,196	26,781	392	219	7	166	124	46	4	74
2029	64,338	35,617	1,220	27,502	400	221	8	171	132	48	5	79
2030	65,370	35,920	1,241	28,208	406	223	8	175	138	50	5	83
2031	66,366	36,207	1,261	28,898	413	225	8	180	145	52	5	88
2032	67,330	36,478	1,278	29,573	419	227	8	184	151	54	5	92
2033	68,261	36,734	1,294	30,233	424	228	8	188	156	55	5	96
2034	69,163	36,976	1,309	30,879	430	230	8	192	162	57	5	100
2035	70,037	37,205	1,321	31,511	435	231	8	196	167	58	5	104

Well Treating - Vehicle Miles Traveled per Day

Project Year	Total Onsite Travel				Onsite Paved Roads				Onsite Unpaved Roads			
	Total	Western	Central	Eastern	Total	Western	Central	Eastern	Total	Western	Central	Eastern
2012	29.11	18.51	1.47	9.13	2.91	1.85	0.15	0.91	26.20	16.66	1.32	8.21
2015	30.24	19.05	1.47	9.72	3.02	1.90	0.15	0.97	27.21	17.14	1.32	8.75
2016	31.86	19.58	1.96	10.32	3.19	1.96	0.20	1.03	28.67	17.62	1.76	9.29
2017	32.88	20.01	1.96	10.91	3.29	2.00	0.20	1.09	29.59	18.01	1.76	9.82
2018	34.39	20.44	2.45	11.51	3.44	2.04	0.24	1.15	30.95	18.39	2.20	10.36
2019	35.32	20.87	2.45	12.00	3.53	2.09	0.24	1.20	31.78	18.78	2.20	10.80
2020	36.72	21.19	2.94	12.60	3.67	2.12	0.29	1.26	33.05	19.07	2.64	11.34
2021	37.54	21.51	2.94	13.09	3.75	2.15	0.29	1.31	33.78	19.36	2.64	11.78
2022	38.36	21.83	2.94	13.59	3.84	2.18	0.29	1.36	34.52	19.65	2.64	12.23
2023	39.17	22.15	2.94	14.09	3.92	2.21	0.29	1.41	35.26	19.93	2.64	12.68
2024	40.48	22.47	3.43	14.58	4.05	2.25	0.34	1.46	36.43	20.22	3.08	13.12
2025	41.30	22.79	3.43	15.08	4.13	2.28	0.34	1.51	37.17	20.51	3.08	13.57
2026	42.01	23.01	3.43	15.57	4.20	2.30	0.34	1.56	37.81	20.70	3.08	14.02
2027	42.72	23.22	3.43	16.07	4.27	2.32	0.34	1.61	38.44	20.90	3.08	14.46
2028	43.33	23.43	3.43	16.47	4.33	2.34	0.34	1.65	38.99	21.09	3.08	14.82
2029	44.53	23.65	3.92	16.96	4.45	2.36	0.39	1.70	40.07	21.28	3.52	15.27
2030	45.14	23.86	3.92	17.36	4.51	2.39	0.39	1.74	40.62	21.47	3.52	15.62
2031	45.85	24.08	3.92	17.86	4.58	2.41	0.39	1.79	41.26	21.67	3.52	16.07
2032	46.46	24.29	3.92	18.25	4.65	2.43	0.39	1.83	41.81	21.86	3.52	16.43
2033	46.96	24.40	3.92	18.65	4.70	2.44	0.39	1.86	42.27	21.96	3.52	16.78
2034	47.57	24.61	3.92	19.05	4.76	2.46	0.39	1.90	42.82	22.15	3.52	17.14
2035	48.08	24.72	3.92	19.44	4.81	2.47	0.39	1.94	43.27	22.25	3.52	17.50

Well Treating - Change in Vehicle Miles Traveled per Day

Project Year	Total Onsite Travel				Onsite Paved Roads				Onsite Unpaved Roads			
	Total	Western	Central	Eastern	Total	Western	Central	Eastern	Total	Western	Central	Eastern
2012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2015	1.13	0.54	0.00	0.60	0.11	0.05	0.00	0.06	1.02	0.48	0.00	0.54
2016	2.75	1.07	0.49	1.19	0.27	0.11	0.05	0.12	2.47	0.96	0.44	1.07
2017	3.77	1.50	0.49	1.79	0.38	0.15	0.05	0.18	3.40	1.35	0.44	1.61
2018	5.29	1.93	0.98	2.38	0.53	0.19	0.10	0.24	4.76	1.73	0.88	2.14
2019	6.21	2.35	0.98	2.88	0.62	0.24	0.10	0.29	5.59	2.12	0.88	2.59
2020	7.62	2.68	1.47	3.47	0.76	0.27	0.15	0.35	6.85	2.41	1.32	3.12
2021	8.43	3.00	1.47	3.97	0.84	0.30	0.15	0.40	7.59	2.70	1.32	3.57
2022	9.25	3.32	1.47	4.46	0.92	0.33	0.15	0.45	8.32	2.99	1.32	4.02
2023	10.07	3.64	1.47	4.96	1.01	0.36	0.15	0.50	9.06	3.27	1.32	4.46
2024	11.37	3.96	1.96	5.46	1.14	0.40	0.20	0.55	10.24	3.56	1.76	4.91
2025	12.19	4.28	1.96	5.95	1.22	0.43	0.20	0.60	10.97	3.85	1.76	5.36
2026	12.90	4.49	1.96	6.45	1.29	0.45	0.20	0.64	11.61	4.04	1.76	5.80
2027	13.61	4.71	1.96	6.94	1.36	0.47	0.20	0.69	12.25	4.24	1.76	6.25
2028	14.22	4.92	1.96	7.34	1.42	0.49	0.20	0.73	12.80	4.43	1.76	6.61
2029	15.42	5.14	2.45	7.84	1.54	0.51	0.24	0.78	13.88	4.62	2.20	7.05
2030	16.03	5.35	2.45	8.23	1.60	0.54	0.24	0.82	14.43	4.82	2.20	7.41
2031	16.74	5.56	2.45	8.73	1.67	0.56	0.24	0.87	15.07	5.01	2.20	7.86
2032	17.35	5.78	2.45	9.13	1.74	0.58	0.24	0.91	15.62	5.20	2.20	8.21
2033	17.86	5.89	2.45	9.52	1.79	0.59	0.24	0.95	16.07	5.30	2.20	8.57
2034	18.47	6.10	2.45	9.92	1.85	0.61	0.24	0.99	16.62	5.49	2.20	8.93
2035	18.97	6.21	2.45	10.32	1.90	0.62	0.24	1.03	17.07	5.59	2.20	9.29

Kern County - Baseline Equipment and Projected Build-Out to 2035

2.1 Overall Construction

Unmitigated Construction

Central Zone	New Eqp.	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Source Category	or System	tons/yr										MT/yr					
Process Heater	17	32.8	263.1	154.9	0.2	0.6	18.3	18.9	0.2	16.8	17.0	0.0	20,250.0	20,250.0	5.9	0.0	20,373.4
Production Tanks	27	52.3	418.1	248.5	0.3	1.4	29.0	30.4	0.5	26.7	27.2	0.0	32,560.7	32,560.7	9.3	0.0	32,757.3
VOCDD (Flare)	12	23.2	185.8	110.4	0.2	0.6	12.9	13.5	0.2	11.9	12.1	0.0	14,471.4	14,471.4	4.2	0.0	14,558.8
Totals		**108.3**	**867.0**	**513.8**	**0.7**	**2.7**	**60.1**	**62.8**	**0.9**	**55.4**	**56.3**	**0.0**	**67,282.1**	**67,282.1**	**19.4**	**0.0**	**67,689.5**

Eastern Zone	New Eqp.	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Source Category	or System											MT/yr					
Boiler	3	4.9	46.0	27.0	0.0	0.1	3.2	3.3	0.0	2.9	3.0	0.0	3,525.5	3,525.5	1.0	0.0	3,547.1
Cogeneration	34	64.8	526.3	311.0	0.4	1.4	36.5	37.9	0.5	33.7	34.1	0.0	40,672.1	40,672.1	11.8	0.0	40,919.3
Process Heater	1	1.9	15.5	9.1	0.0	0.0	1.1	1.1	0.0	1.0	1.0	0.0	1,186.0	1,186.0	0.3	0.0	1,193.2
IC Engine (RICE)	18	29.7	278.5	163.5	0.2	0.6	19.3	19.9	0.2	17.8	18.0	0.0	21,347.6	21,347.6	6.2	0.0	21,478.2
Steam Generators	89	159.8	1,377.7	814.2	1.1	3.8	95.6	99.3	1.3	88.1	89.4	0.0	106,465.2	106,465.2	30.8	0.0	107,112.2
Production Tanks	208	402.3	3,219.8	1,902.8	2.6	8.9	223.4	232.1	3.1	205.9	208.8	0.0	248,817.5	248,817.5	72.0	0.0	250,329.7
VOCDD (Flare)	13	25.1	201.2	118.9	0.2	0.6	14.0	14.5	0.2	12.9	13.1	0.0	15,551.1	15,551.1	4.5	0.0	15,645.6
		688.6	5,665.1	3,346.5	4.6	15.4	393.1	408.2	5.4	362.3	367.4	0.0	437,565.0	437,565.0	126.6	0.0	440,225.3

Western Zone	New Eqp.	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Source Category	or System	tons/yr										MT/yr					
Boiler	3	4.9	46.0	27.1	0.0	0.1	3.2	3.3	0.0	2.9	3.0	0.0	3,541.1	3,541.1	1.0	0.0	3,562.7
Cogeneration	20	38.3	310.1	187.9	0.3	1.8	21.5	23.2	0.5	19.8	20.3	0.0	24,823.5	24,823.5	7.0	0.0	24,969.9
Process Heater	25	48.4	387.2	230.4	0.3	1.4	26.9	28.3	0.5	24.8	25.2	0.0	30,250.4	30,250.4	8.7	0.0	30,432.5
IC Engine (RICE)	84	139.1	1,300.8	774.1	1.1	4.8	90.2	94.9	1.6	83.2	84.7	0.0	101,641.2	101,641.2	29.1	0.0	102,253.0
Steam Generators	173	311.7	2,682.5	1,625.2	2.3	15.4	185.8	201.0	4.7	171.3	175.8	0.0	214,723.4	214,723.4	60.2	0.0	215,989.5
Production Tanks	170	330.1	2,636.0	1,597.0	2.2	15.1	182.6	197.5	4.6	168.3	172.7	0.0	210,999.9	210,999.9	59.2	0.0	212,244.0
VOCDD (Flare)	15	29.1	232.6	140.9	0.2	1.3	16.1	17.4	0.4	14.9	15.2	0.0	18,617.6	18,617.6	5.2	0.0	18,727.4
		901.6	7,595.2	4,582.6	6.4	39.9	526.2	565.7	12.3	485.1	496.9	0.0	604,597.1	604,597.1	170.3	0.0	608,178.9

Total Kern County	New Eqp.	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Source Category	or System	tons/yr										MT/yr					
Boiler	6	9.7	92.0	54.1	0.1	0.2	6.4	6.6	0.1	5.9	6.0	0.0	7,066.6	7,066.6	2.1	0.0	7,109.7
Cogeneration	54	103.1	836.4	498.9	0.7	3.2	58.0	61.2	1.0	53.5	54.5	0.0	65,495.6	65,495.6	18.7	0.0	65,889.2
Process Heater	43	83.1	665.7	394.4	0.5	2.1	46.2	48.2	0.7	42.6	43.2	0.0	51,686.3	51,686.3	14.9	0.0	51,999.1
IC Engine (RICE)	102	168.8	1,579.3	937.7	1.3	5.4	109.5	114.8	1.8	101.0	102.7	0.0	122,988.8	122,988.8	35.3	0.0	123,731.3
Steam Generators	262	471.6	4,060.3	2,439.3	3.4	19.2	281.4	300.4	6.0	259.4	265.1	0.0	321,188.6	321,188.6	91.0	0.0	323,101.7
Production Tanks	405	784.7	6,273.9	3,748.2	5.2	25.4	435.0	460.1	8.1	401.0	408.7	0.0	492,378.1	492,378.1	140.5	0.0	495,330.9
VOCDD (Flare)	40	77.5	619.6	370.3	0.5	2.5	43.0	45.5	0.8	39.6	40.4	0.0	48,640.2	48,640.2	13.9	0.0	48,931.8
		1,698.5	14,127.3	8,442.9	11.7	57.9	979.4	1,036.7	18.5	902.8	920.6	0.0	1,109,444.2	1,109,444.2	316.3	0.0	1,116,093.7

2.1 Overall Construction

Unmitigated Construction

		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year		tons/yr										MT/yr					
2015	boiler	0.0812	0.7666	0.4515	6.20E-04	1.88E-03	0.0532	0.055	6.70E-04	0.049	0.0497	0	59.0181	59.0181	0.0171	0	59.3779
2015	cogen	0.0954	0.7742	0.4601	6.40E-04	2.63E-03	0.0537	0.0563	8.70E-04	0.0495	0.0503	0	60.2976	60.2976	0.0173	0	60.6616
2015	process heater	0.0965	0.7738	0.4557	6.30E-04	1.88E-03	0.0537	0.0555	6.70E-04	0.0495	0.0501	0	59.5587	59.5587	0.0173	0	59.9219
2015	RICE	0.0826	0.7738	0.4557	6.30E-04	1.88E-03	0.0537	0.0555	6.70E-04	0.0495	0.0501	0	59.5587	59.5587	0.0173	0	59.9219
2015	stm gen	0.0898	0.7742	0.4601	6.40E-04	2.63E-03	0.0537	0.0563	8.70E-04	0.0495	0.0503	0	60.2976	60.2976	0.0173	0	60.6616
2015	tank	0.0968	0.7742	0.4601	6.40E-04	2.63E-03	0.0537	0.0563	8.70E-04	0.0495	0.0503	0	60.2976	60.2976	0.0173	0	60.6616
2015	flare	0.0968	0.7742	0.4601	6.40E-04	2.63E-03	0.0537	0.0563	8.70E-04	0.0495	0.0503	0	60.2976	60.2976	0.0173	0	60.6616
		0 5423	4 6368	2.7432	0.0038	0.01353	0.3217	0.3349	0.00462	0.2965	0.3008	0	359.0283	359.0283	0.1036	0	361 2065

2.1 Overall Construction

Unmitigated Construction

		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year		tons/yr										MT/yr					
2015	boiler	0.0812	0.7664	0.4501	6.20E-04	1.61E-03	0.0532	0.0548	6.00E-04	0.049	0.0496	0	58.7584	58.7584	0.0171	0	59.1179
2015	cogen	0.0953	0.774	0.4574	6.30E-04	2.13E-03	0.0537	0.0558	7.40E-04	0.0495	0.0502	0	59.8119	59.8119	0.0173	0	60.1754
2015	process heater	0.0965	0.7736	0.4542	6.30E-04	1.61E-03	0.0537	0.0553	6.00E-04	0.0495	0.0501	0	59.2989	59.2989	0.0173	0	59.6618
2015	RICE	0.0826	0.7736	0.4542	6.30E-04	1.61E-03	0.0537	0.0553	6.00E-04	0.0495	0.0501	0	59.2989	59.2989	0.0173	0	59.6618
2015	stn gen	0.0898	0.774	0.4574	6.30E-04	2.13E-03	0.0537	0.0558	7.40E-04	0.0495	0.0502	0	59.8119	59.8119	0.0173	0	60.1754
2015	tank	0.0967	0.774	0.4574	6.30E-04	2.13E-03	0.0537	0.0558	7.40E-04	0.0495	0.0502	0	59.8119	59.8119	0.0173	0	60.1754
2015	flare	0.0967	0.774	0.4574	6.30E-04	2.13E-03	0.0537	0.0558	7.40E-04	0.0495	0.0502	0	59.8119	59.8119	0.0173	0	60.1754
		0 5421	4 6356	2.7307	0.00377	0.01122	0.3217	0.3328	0.00402	0.2965	0.3004	0	356.7919	356.7919	0.1036	0	358 9677

2.1 Overall Construction

Unmitigated Construction

		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year		tons/yr										MT/yr					
2015	boiler	0.0812	0.7666	0.4515	6.20E-04	1.88E-03	0.0532	0.055	6.70E-04	0.049	0.0497	0	59.0181	59.0181	0.0171	0	59.3779
2015	cogen	0.0957	0.7753	0.4697	6.60E-04	4.44E-03	0.0537	0.0581	1.35E-03	0.0495	0.0508	0	62.0588	62.0588	0.0174	0	62.4247
2015	process heater	0.0967	0.7743	0.4608	6.40E-04	2.85E-03	0.0537	0.0565	9.30E-04	0.0495	0.0504	0	60.5007	60.5007	0.0173	0	60.8649
2015	RICE	0.0828	0.7743	0.4608	6.40E-04	2.85E-03	0.0537	0.0565	9.30E-04	0.0495	0.0504	0	60.5007	60.5007	0.0173	0	60.8649
2015	stn gen	0.0901	0.7753	0.4697	6.60E-04	4.44E-03	0.0537	0.0581	1.35E-03	0.0495	0.0508	0	62.0588	62.0588	0.0174	0	62.4247
2015	tank	0.0971	0.7753	0.4697	6.60E-04	4.44E-03	0.0537	0.0581	1.35E-03	0.0495	0.0508	0	62.0588	62.0588	0.0174	0	62.4247
2015	flare	0.0971	0.7753	0.4697	6.60E-04	4.44E-03	0.0537	0.0581	1.35E-03	0.0495	0.0508	0	62.0588	62.0588	0.0174	0	62.4247
		0 5436	4 6411	2.7822	0.00388	0.0209	0.3217	0.3423	0.00658	0.2965	0.3029	0	366.1959	366.1959	0.1039	0	368 3818

APPENDIX B

Engine Use Survey Summary and Results

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR
IPK_4AB0FNRG	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015
IPK_4AB0FNRG	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015
IPK_4AB0FNRG	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015
IPK_4AB0FNRG	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015
IPK_4AB0FNRG	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	3.00	7	01/15/2015	2015
IPK_4AB0FNRH	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	3.00	7	01/15/2015	2015
IPK_4AB0FNRH	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	3.00	7	01/15/2015	2015
IPK_4AB0FNRH	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	3.00	7	01/15/2015	2015
IPK_4AB0FNRH	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	3.00	7	01/15/2015	2015
IPK_4AB0FNRQ	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015
IPK_4AB0FNRQ	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015
IPK_4AB0FNRQ	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015
IPK_4AB0FNRQ	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015
IPK_4AB0FNRR	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015
IPK_4AB0FNRR	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015
IPK_4AB0FNRR	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015
IPK_4AB0FNRR	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015
IPK_4AB0FNRS	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015
IPK_4AB0FNS1	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015
IPK_4AB0FNS1	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015
IPK_4AB0FNS1	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015
IPK_4AB0FNS1	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015
IPK_4AB0FNS1	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015
IPK_4AB0FNS2	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015
IPK_4AB0FNS2	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015
IPK_4AB0FNS2	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015
IPK_4AB0FNS2	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015
IPK_4AB0FNSB	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015
IPK_4AB0FNSB	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	7.00	7	01/19/2015	2015
IPK_4AB0FNSB	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	7.00	7	01/19/2015	2015
IPK_4AB0FNSC	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	7.00	7	01/19/2015	2015
IPK_4AB0FNSC	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015
IPK_4AB0FNSC	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015
IPK_4AB0FNSC	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015
IPK_4AB0FNSC	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015
IPK_4AB0FNSC	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015
IPK_4AB0FNSL	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015
IPK_4AB0FNSM	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	9.00	7	01/21/2015	2015
IPK_4AB0FNSM	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	9.00	7	01/21/2015	2015
IPK_4AB0FNSM	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	9.00	7	01/21/2015	2015
IPK_4AB0FNSM	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	8.00	7	01/20/2015	2015
IPK_4AB0FNSM	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	8.00	7	01/20/2015	2015
IPK_4AB0FNSM	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	8.00	7	01/20/2015	2015
IPK_4AB0FNSN	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	8.00	7	01/20/2015	2015
IPK_4AB0FNSN	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	8.00	7	01/20/2015	2015
IPK_4AB0FNSW	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015
IPK_4AB0FNSW	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	11.00	7	01/23/2015	2015
IPK_4AB0FNSW	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	11.00	7	01/23/2015	2015
IPK_4AB0FNSW	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	11.00	7	01/23/2015	2015

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR
IPK_4AB0FNSX	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	10.00	7	01/22/2015	2015
IPK_4AB0FNSX	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	10.00	7	01/22/2015	2015
IPK_4AB0FNSX	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	10.00	7	01/22/2015	2015
IPK_4AB0FNSX	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	10.00	7	01/22/2015	2015
IPK_4AB0FNSX	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	10.00	7	01/22/2015	2015
IPK_4AB0FNT6	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015
IPK_4AB0FNT6	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	13.00	7	01/25/2015	2015
IPK_4AB0FNT6	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	13.00	7	01/25/2015	2015
IPK_4AB0FNT7	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	13.00	7	01/25/2015	2015
IPK_4AB0FNT7	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	12.00	7	01/24/2015	2015
IPK_4AB0FNT7	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	12.00	7	01/24/2015	2015
IPK_4AB0FNT7	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	12.00	7	01/24/2015	2015
IPK_4AB0FNT7	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	12.00	7	01/24/2015	2015
IPK_4AB0FNT8	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	12.00	7	01/24/2015	2015
IPK_4AB0FNTG	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015
IPK_4AB0FNTG	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	16.00	7	01/28/2015	2015
IPK_4AB0FNTH	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	16.00	7	01/28/2015	2015
IPK_4AB0FNTH	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	16.00	7	01/28/2015	2015
IPK_4AB0FNTH	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	15.00	7	01/27/2015	2015
IPK_4AB0FNTH	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	15.00	7	01/27/2015	2015
IPK_4AB0FNTI	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	15.00	7	01/27/2015	2015
IPK_4AB0FNTI	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	15.00	7	01/27/2015	2015
IPK_4AB0FNTI	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	15.00	7	01/27/2015	2015
IPK_4AB0FNTR	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015
IPK_4AB0FNTR	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	19.00	7	01/31/2015	2015
IPK_4AB0FNTR	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	19.00	7	01/31/2015	2015
IPK_4AB0FNTR	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	19.00	7	01/31/2015	2015
IPK_4AB0FNTS	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	18.00	7	01/30/2015	2015
IPK_4AB0FNTS	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	18.00	7	01/30/2015	2015
IPK_4AB0FNTS	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	18.00	7	01/30/2015	2015
IPK_4AB0FNTS	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	18.00	7	01/30/2015	2015
IPK_4AB0FNTS	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	18.00	7	01/30/2015	2015
IPK_4AB0FNU1	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015
IPK_4AB0FNU1	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	24.00	7	02/05/2015	2015
IPK_4AB0FNU1	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	24.00	7	02/05/2015	2015
IPK_4AB0FNU2	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	24.00	7	02/05/2015	2015
IPK_4AB0FNU2	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	23.00	7	02/04/2015	2015
IPK_4AB0FNU2	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	23.00	7	02/04/2015	2015
IPK_4AB0FNU2	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	23.00	7	02/04/2015	2015
IPK_4AB0FNU2	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	23.00	7	02/04/2015	2015
IPK_4AB0FNU2	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	23.00	7	02/04/2015	2015
IPK_4AB0FNUB	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015
IPK_4AB0FNUB	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	29.00	7	02/10/2015	2015
IPK_4AB0FNUB	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	29.00	7	02/10/2015	2015
IPK_4AB0FNUC	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	29.00	7	02/10/2015	2015
IPK_4AB0FNUC	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	28.00	7	02/09/2015	2015
IPK_4AB0FNUC	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	28.00	7	02/09/2015	2015
IPK_4AB0FNUC	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	28.00	7	02/09/2015	2015
IPK_4AB0FNUC	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	28.00	7	02/09/2015	2015

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR
IPK_4AB0FNUD	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	28.00	7	02/09/2015	2015
IPK_4AB0FNUL	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015
IPK_4AB0FNUL	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	36.00	7	02/17/2015	2015
IPK_4AB0FNUL	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	36.00	7	02/17/2015	2015
IPK_4AB0FNUM	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	36.00	7	02/17/2015	2015
IPK_4AB0FNUM	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	35.00	7	02/16/2015	2015
IPK_4AB0FNUM	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	35.00	7	02/16/2015	2015
IPK_4AB0FNUM	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	35.00	7	02/16/2015	2015
IPK_4AB0FNUN	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	35.00	7	02/16/2015	2015
IPK_4AB0FNUN	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	35.00	7	02/16/2015	2015
IPK_4AB0FNUV	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015
IPK_4AB0FNUV	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	44.00	7	02/25/2015	2015
IPK_4AB0FNUV	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	44.00	7	02/25/2015	2015
IPK_4AB0FNUW	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	44.00	7	02/25/2015	2015
IPK_4AB0FNUW	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	43.00	7	02/24/2015	2015
IPK_4AB0FNUW	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	43.00	7	02/24/2015	2015
IPK_4AB0FNUW	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	43.00	7	02/24/2015	2015
IPK_4AB0FNUX	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	43.00	7	02/24/2015	2015
IPK_4AB0FNUX	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	43.00	7	02/24/2015	2015
IPK_4AB0FNV5	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015
IPK_4AB0FNV5	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	54.00	7	03/07/2015	2015
IPK_4AB0FNV6	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	54.00	7	03/07/2015	2015
IPK_4AB0FNV6	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	54.00	7	03/07/2015	2015
IPK_4AB0FNV6	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	53.00	7	03/06/2015	2015
IPK_4AB0FNV7	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	53.00	7	03/06/2015	2015
IPK_4AB0FNV7	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	53.00	7	03/06/2015	2015
IPK_4AB0FNV7	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	53.00	7	03/06/2015	2015
IPK_4AB0FNVF	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015
IPK_4AB0FNVF	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	66.00	7	03/19/2015	2015
IPK_4AB0FNVF	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	66.00	7	03/19/2015	2015
IPK_4AB0FNVG	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	66.00	7	03/19/2015	2015
IPK_4AB0FNVG	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	65.00	7	03/18/2015	2015
IPK_4AB0FNVG	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	65.00	7	03/18/2015	2015
IPK_4AB0FNVH	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	65.00	7	03/18/2015	2015
IPK_4AB0FNVH	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	65.00	7	03/18/2015	2015
IPK_4AB0FNVH	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	65.00	7	03/18/2015	2015
IPK_4AB0FNVP	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015
IPK_4AB0FNVP	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	82.00	7	04/04/2015	2015
IPK_4AB0FNVP	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	82.00	7	04/04/2015	2015
IPK_4AB0FNVP	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	82.00	7	04/04/2015	2015
IPK_4AB0FNVQ	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	81.00	7	04/03/2015	2015
IPK_4AB0FNVQ	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	81.00	7	04/03/2015	2015
IPK_4AB0FNVQ	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	81.00	7	04/03/2015	2015
IPK_4AB0FNVQ	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	81.00	7	04/03/2015	2015
IPK_4AB0FNVR	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	81.00	7	04/03/2015	2015
IPK_4AB0FNVY	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015
IPK_4AB0FNVZ	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	101.00	7	04/23/2015	2015
IPK_4AB0FNVZ	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	101.00	7	04/23/2015	2015

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR
IPK_4AB0FNVZ	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	101.00	7	04/23/2015	2015
IPK_4AB0FNW0	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	100.00	7	04/22/2015	2015
IPK_4AB0FNW0	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	100.00	7	04/22/2015	2015
IPK_4AB0FNW0	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	100.00	7	04/22/2015	2015
IPK_4AB0FNW1	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	100.00	7	04/22/2015	2015
IPK_4AB0FNW1	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	100.00	7	04/22/2015	2015
IPK_4AB0FNW8	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015
IPK_4AB0FNW8	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	125.00	7	05/17/2015	2015
IPK_4AB0FNW8	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	125.00	7	05/17/2015	2015
IPK_4AB0FNW9	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	125.00	7	05/17/2015	2015
IPK_4AB0FNW9	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	124.00	7	05/16/2015	2015
IPK_4AB0FNW9	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	124.00	7	05/16/2015	2015
IPK_4AB0FNWA	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	124.00	7	05/16/2015	2015
IPK_4AB0FNWA	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	124.00	7	05/16/2015	2015
IPK_4AB0FNWA	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	124.00	7	05/16/2015	2015
IPK_4AB0FNWH	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015
IPK_4AB0FNWH	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	154.00	7	06/15/2015	2015
IPK_4AB0FNWH	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	154.00	7	06/15/2015	2015
IPK_4AB0FNWI	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	154.00	7	06/15/2015	2015
IPK_4AB0FNWI	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	153.00	7	06/14/2015	2015
IPK_4AB0FNWI	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	153.00	7	06/14/2015	2015
IPK_4AB0FNWJ	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	153.00	7	06/14/2015	2015
IPK_4AB0FNWJ	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	153.00	7	06/14/2015	2015
IPK_4AB0FNWJ	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	153.00	7	06/14/2015	2015
IPK_4AB0FNWQ	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015
IPK_4AB0FNWQ	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	191.00	7	07/22/2015	2015
IPK_4AB0FNWR	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	191.00	7	07/22/2015	2015
IPK_4AB0FNWR	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	191.00	7	07/22/2015	2015
IPK_4AB0FNWR	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	190.00	7	07/21/2015	2015
IPK_4AB0FNWR	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	190.00	7	07/21/2015	2015
IPK_4AB0FNWS	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	190.00	7	07/21/2015	2015
IPK_4AB0FNWS	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	190.00	7	07/21/2015	2015
IPK_4AB0FNWS	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	190.00	7	07/21/2015	2015
IPK_4AB0FNWY	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015
IPK_4AB0FNWZ	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	235.00	7	09/04/2015	2015
IPK_4AB0FNWZ	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	235.00	7	09/04/2015	2015
IPK_4AB0FNX0	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	235.00	7	09/04/2015	2015
IPK_4AB0FNX0	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	234.00	7	09/03/2015	2015
IPK_4AB0FNX0	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	234.00	7	09/03/2015	2015
IPK_4AB0FNX1	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	234.00	7	09/03/2015	2015
IPK_4AB0FNX1	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	234.00	7	09/03/2015	2015
IPK_4AB0FNX1	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	234.00	7	09/03/2015	2015
IPK_4AB0FNX7	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015
IPK_4AB0FNX7	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	291.00	7	10/30/2015	2015
IPK_4AB0FNX7	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	291.00	7	10/30/2015	2015
IPK_4AB0FNX7	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	291.00	7	10/30/2015	2015
IPK_4AB0FNX8	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	290.00	7	10/29/2015	2015
IPK_4AB0FNX8	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	290.00	7	10/29/2015	2015
IPK_4AB0FNX9	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	290.00	7	10/29/2015	2015

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR
IPK_4AB0FNX9	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	290.00	7	10/29/2015	2015
IPK_4AB0FNX9	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	290.00	7	10/29/2015	2015
IPK_4AB0FNXE	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015
IPK_4AB0FNXE	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	360.00	7	01/07/2016	2015
IPK_4AB0FNXF	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	360.00	7	01/07/2016	2015
IPK_4AB0FNXF	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	360.00	7	01/07/2016	2015
IPK_4AB0FNXG	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	359.00	7	01/06/2016	2015
IPK_4AB0FNXG	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	359.00	7	01/06/2016	2015
IPK_4AB0FNXH	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	359.00	7	01/06/2016	2015
IPK_4AB0FNXH	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	359.00	7	01/06/2016	2015
IPK_4AB0FNXH	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	359.00	7	01/06/2016	2015
IPK_4AB0FNXQ	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015
IPK_4AB0FNXR	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	445.00	7	04/01/2016	2015
IPK_4AB0FNXR	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	445.00	7	04/01/2016	2015
IPK_4AB0FNXR	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	445.00	7	04/01/2016	2015
IPK_4AB0FNXS	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	444.00	7	03/31/2016	2015
IPK_4AB0FNXS	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	444.00	7	03/31/2016	2015
IPK_4AB0FNXT	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	444.00	7	03/31/2016	2015
IPK_4AB0FNXT	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	444.00	7	03/31/2016	2015
IPK_4AB0FNXU	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	444.00	7	03/31/2016	2015
IPK_4AB0FNY1	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015
IPK_4AB0FNY2	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	550.00	7	07/15/2016	2015
IPK_4AB0FNY2	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	550.00	7	07/15/2016	2015
IPK_4AB0FNY3	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	550.00	7	07/15/2016	2015
IPK_4AB0FNY3	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	549.00	7	07/14/2016	2015
IPK_4AB0FNY4	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	549.00	7	07/14/2016	2015
IPK_4AB0FNY4	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	549.00	7	07/14/2016	2015
IPK_4AB0FNY5	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	549.00	7	07/14/2016	2015
IPK_4AB0FNY5	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	549.00	7	07/14/2016	2015

STARTYR	STARTMO	STARTDAY	ENDYR	ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY
2015	1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00
2015	1	13	2015	1	16	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00
2015	1	13	2015	1	16	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	1	16	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00
2015	1	13	2015	1	15	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	1	15	DSL	Rotary Table or Top Drive	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	15	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	15	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	15	DSL	Diesel Engine For Mud Pump	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00
2015	1	13	2015	1	17	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00
2015	1	13	2015	1	17	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	1	17	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00
2015	1	13	2015	1	16	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	1	16	DSL	Rotary Table or Top Drive	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	16	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	16	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	16	DSL	Diesel Engine For Mud Pump	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00
2015	1	13	2015	1	18	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00
2015	1	13	2015	1	18	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	1	18	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00
2015	1	13	2015	1	17	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	1	17	DSL	Rotary Table or Top Drive	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	17	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	17	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	17	DSL	Diesel Engine For Mud Pump	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00
2015	1	13	2015	1	19	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00
2015	1	13	2015	1	19	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	1	19	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00
2015	1	13	2015	1	18	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	1	18	DSL	Rotary Table or Top Drive	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	18	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	18	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	18	DSL	Diesel Engine For Mud Pump	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00
2015	1	13	2015	1	21	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00
2015	1	13	2015	1	21	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	1	21	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00
2015	1	13	2015	1	20	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	1	20	DSL	Rotary Table or Top Drive	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	20	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	20	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	20	DSL	Diesel Engine For Mud Pump	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00
2015	1	13	2015	1	23	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00
2015	1	13	2015	1	23	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	1	23	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00

STARTYR	STARTMO	STARTDAY	ENDYR	ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY
2015	1	13	2015	1	22	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	1	22	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	22	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	22	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	22	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00
2015	1	13	2015	1	25	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00
2015	1	13	2015	1	25	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	1	25	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00
2015	1	13	2015	1	24	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	1	24	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	24	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	24	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	24	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00
2015	1	13	2015	1	28	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00
2015	1	13	2015	1	28	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	1	28	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00
2015	1	13	2015	1	27	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	1	27	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	27	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	27	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	27	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00
2015	1	13	2015	1	31	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00
2015	1	13	2015	1	31	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	1	31	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00
2015	1	13	2015	1	30	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	1	30	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	30	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	30	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	30	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00
2015	1	13	2015	2	5	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00
2015	1	13	2015	2	5	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	2	5	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00
2015	1	13	2015	2	4	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	2	4	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	2	4	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	2	4	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	2	4	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00
2015	1	13	2015	2	10	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00
2015	1	13	2015	2	10	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	2	10	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00
2015	1	13	2015	2	9	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	2	9	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	2	9	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	2	9	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00

STARTYR	STARTMO	STARTDAY	ENDYR	ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY
2015	1	13	2015	2	9	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00
2015	1	13	2015	2	17	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00
2015	1	13	2015	2	17	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	2	17	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00
2015	1	13	2015	2	16	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	2	16	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	2	16	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	2	16	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	2	16	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00
2015	1	13	2015	2	25	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00
2015	1	13	2015	2	25	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	2	25	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00
2015	1	13	2015	2	24	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	2	24	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	2	24	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	2	24	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	2	24	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00
2015	1	13	2015	3	7	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00
2015	1	13	2015	3	7	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	3	7	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00
2015	1	13	2015	3	6	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	3	6	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	3	6	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	3	6	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	3	6	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00
2015	1	13	2015	3	19	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00
2015	1	13	2015	3	19	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	3	19	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00
2015	1	13	2015	3	18	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	3	18	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	3	18	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	3	18	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	3	18	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00
2015	1	13	2015	4	4	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00
2015	1	13	2015	4	4	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	4	4	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00
2015	1	13	2015	4	3	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	4	3	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	4	3	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	4	3	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	4	3	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00
2015	1	13	2015	4	23	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00
2015	1	13	2015	4	23	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00

STARTYR	STARTMO	STARTDAY	ENDYR	ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY
2015	1	13	2015	4	23	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00
2015	1	13	2015	4	22	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	4	22	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	4	22	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	4	22	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	4	22	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00
2015	1	13	2015	5	17	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00
2015	1	13	2015	5	17	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	5	17	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00
2015	1	13	2015	5	16	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	5	16	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	5	16	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	5	16	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	5	16	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00
2015	1	13	2015	6	15	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00
2015	1	13	2015	6	15	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	6	15	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00
2015	1	13	2015	6	14	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	6	14	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	6	14	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	6	14	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	6	14	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00
2015	1	13	2015	7	22	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00
2015	1	13	2015	7	22	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	7	22	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00
2015	1	13	2015	7	21	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	7	21	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	7	21	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	7	21	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	7	21	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00
2015	1	13	2015	9	4	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00
2015	1	13	2015	9	4	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	9	4	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00
2015	1	13	2015	9	3	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	9	3	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	9	3	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	9	3	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	9	3	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00
2015	1	13	2015	10	30	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00
2015	1	13	2015	10	30	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	10	30	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00
2015	1	13	2015	10	29	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2015	10	29	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	10	29	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00

STARTYR	STARTMO	STARTDAY	ENDYR	ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY
2015	1	13	2015	10	29	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	10	29	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00
2015	1	13	2016	1	7	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00
2015	1	13	2016	1	7	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2016	1	7	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00
2015	1	13	2016	1	6	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2016	1	6	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2016	1	6	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2016	1	6	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2016	1	6	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00
2015	1	13	2016	4	1	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00
2015	1	13	2016	4	1	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2016	4	1	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00
2015	1	13	2016	3	31	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2016	3	31	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2016	3	31	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2016	3	31	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2016	3	31	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00
2015	1	13	2016	7	15	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00
2015	1	13	2016	7	15	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2016	7	15	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00
2015	1	13	2016	7	14	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00
2015	1	13	2016	7	14	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2016	7	14	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2016	7	14	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00
2015	1	13	2016	7	14	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00

EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP	CATLOAD	CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	TOGGBHP	PMGBHP	NOXGBHP	ROGGBHP
1.00	230.00	250	176	250	217.000000000	0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456
5.00	20.00	50	0	50	35.101920000	0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322
1.00	80.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772
2.00	100.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772
1.00	420.00	500	251	500	354.711540000	0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978
1.00	135.00	175	121	175	150.479170000	0.502500000	0.367000000	1249.795948400	3.920185384	4899.431810100	0.605300744	0.427684380	7.200925017	0.506455132
1.00	455.00	500	251	500	367.025640000	0.502500000	0.367000000	1315.004200600	9.561513062	12573.429840000	0.291050679	0.151943144	4.895160585	0.243522103
1.00	442.00	500	251	500	367.025640000	0.502500000	0.367000000	1315.004200600	9.561513062	12573.429840000	0.291050679	0.151943144	4.895160585	0.243522103
1.00	424.00	500	251	500	367.025640000	0.502500000	0.367000000	1315.004200600	9.561513062	12573.429840000	0.291050679	0.151943144	4.895160585	0.243522103
1.00	230.00	250	176	250	217.000000000	0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456
5.00	20.00	50	0	50	35.101920000	0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322
1.00	80.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772
2.00	100.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772
1.00	420.00	500	251	500	354.711540000	0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978
1.00	135.00	175	121	175	150.479170000	0.502500000	0.367000000	1249.795948400	3.920185384	4899.431810100	0.605300744	0.427684380	7.200925017	0.506455132
1.00	455.00	500	251	500	367.025640000	0.502500000	0.367000000	1315.004200600	9.561513062	12573.429840000	0.291050679	0.151943144	4.895160585	0.243522103
1.00	442.00	500	251	500	367.025640000	0.502500000	0.367000000	1315.004200600	9.561513062	12573.429840000	0.291050679	0.151943144	4.895160585	0.243522103
1.00	424.00	500	251	500	367.025640000	0.502500000	0.367000000	1315.004200600	9.561513062	12573.429840000	0.291050679	0.151943144	4.895160585	0.243522103
1.00	230.00	250	176	250	217.000000000	0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456
5.00	20.00	50	0	50	35.101920000	0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322
1.00	80.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772
2.00	100.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772
1.00	420.00	500	251	500	354.711540000	0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978
1.00	135.00	175	121	175	150.479170000	0.502500000	0.367000000	1249.795948400	3.920185384	4899.431810100	0.605300744	0.427684380	7.200925017	0.506455132
1.00	455.00	500	251	500	367.025640000	0.502500000	0.367000000	1315.004200600	9.561513062	12573.429840000	0.291050679	0.151943144	4.895160585	0.243522103
1.00	442.00	500	251	500	367.025640000	0.502500000	0.367000000	1315.004200600	9.561513062	12573.429840000	0.291050679	0.151943144	4.895160585	0.243522103
1.00	424.00	500	251	500	367.025640000	0.502500000	0.367000000	1315.004200600	9.561513062	12573.429840000	0.291050679	0.151943144	4.895160585	0.243522103
1.00	230.00	250	176	250	217.000000000	0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456
5.00	20.00	50	0	50	35.101920000	0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322
1.00	80.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772
2.00	100.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772

EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP	CATLOAD	CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	TOGGBHP	PMGBHP	NOXGBHP	ROGGBHP
1.00	420.00	500	251	500	354.711540000	0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978
1.00	144.00	175	121	175	150.479170000	0.502500000	0.367000000	1249.795948400	3.920185384	4899.431810100	0.605300744	0.427684380	7.200925017	0.506455132
1.00	996.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	981.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	1145.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	230.00	250	176	250	217.000000000	0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456
5.00	20.00	50	0	50	35.101920000	0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322
1.00	80.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772
2.00	100.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772

EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP	CATLOAD	CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	TOGGBHP	PMGBHP	NOXGBHP	ROGGBHP
1.00	1898.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	230.00	250	176	250	217.000000000	0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456
5.00	20.00	50	0	50	35.101920000	0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322
1.00	80.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772
2.00	100.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772
1.00	420.00	500	251	500	354.711540000	0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978
1.00	158.00	175	121	175	150.479170000	0.502500000	0.367000000	1249.795948400	3.920185384	4899.431810100	0.605300744	0.427684380	7.200925017	0.506455132
1.00	1094.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	962.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	1898.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	230.00	250	176	250	217.000000000	0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456
5.00	20.00	50	0	50	35.101920000	0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322
1.00	80.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772
2.00	100.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772
1.00	420.00	500	251	500	354.711540000	0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978
1.00	158.00	175	121	175	150.479170000	0.502500000	0.367000000	1249.795948400	3.920185384	4899.431810100	0.605300744	0.427684380	7.200925017	0.506455132
1.00	1094.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	962.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	1898.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	230.00	250	176	250	217.000000000	0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456
5.00	20.00	50	0	50	35.101920000	0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322
1.00	80.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772
2.00	100.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772
1.00	420.00	500	251	500	354.711540000	0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978
1.00	158.00	175	121	175	150.479170000	0.502500000	0.367000000	1249.795948400	3.920185384	4899.431810100	0.605300744	0.427684380	7.200925017	0.506455132
1.00	1094.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	962.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	1898.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	230.00	250	176	250	217.000000000	0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456
5.00	20.00	50	0	50	35.101920000	0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322
1.00	80.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772
2.00	100.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772
1.00	420.00	500	251	500	354.711540000	0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978
1.00	180.00	250	176	250	212.472220000	0.502500000	0.367000000	1286.375127100	5.535187969	7120.328126800	0.344390767	0.182534978	5.701322246	0.288151755
1.00	1211.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	1165.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	2203.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	230.00	250	176	250	217.000000000	0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456
5.00	20.00	50	0	50	35.101920000	0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322
1.00	80.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772

EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP	CATLOAD	CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	TOGGBHP	PMGBHP	NOXGBHP	ROGGBHP
2.00	100.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772
1.00	420.00	500	251	500	354.711540000	0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978
1.00	180.00	250	176	250	212.472220000	0.502500000	0.367000000	1286.375127100	5.535187969	7120.328126800	0.344390767	0.182534978	5.701322246	0.288151755
1.00	1211.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	1165.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	2203.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	230.00	250	176	250	217.000000000	0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456
5.00	20.00	50	0	50	35.101920000	0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322
1.00	80.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772
2.00	100.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772
1.00	420.00	500	251	500	354.711540000	0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978
1.00	180.00	250	176	250	212.472220000	0.502500000	0.367000000	1286.375127100	5.535187969	7120.328126800	0.344390767	0.182534978	5.701322246	0.288151755
1.00	1211.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	1165.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	2203.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	230.00	250	176	250	217.000000000	0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456
5.00	20.00	50	0	50	35.101920000	0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322
1.00	80.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772
2.00	100.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772
1.00	420.00	500	251	500	354.711540000	0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978
1.00	180.00	250	176	250	212.472220000	0.502500000	0.367000000	1286.375127100	5.535187969	7120.328126800	0.344390767	0.182534978	5.701322246	0.288151755
1.00	1211.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	1165.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	2203.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	230.00	250	176	250	217.000000000	0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456
5.00	20.00	50	0	50	35.101920000	0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322
1.00	80.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772
2.00	100.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772
1.00	420.00	500	251	500	354.711540000	0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978
1.00	180.00	250	176	250	212.472220000	0.502500000	0.367000000	1286.375127100	5.535187969	7120.328126800	0.344390767	0.182534978	5.701322246	0.288151755
1.00	1361.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	1342.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	2274.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	230.00	250	176	250	217.000000000	0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456
5.00	20.00	50	0	50	35.101920000	0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322
1.00	80.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772
2.00	100.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772
1.00	420.00	500	251	500	354.711540000	0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978
1.00	180.00	250	176	250	212.472220000	0.502500000	0.367000000	1286.375127100	5.535187969	7120.328126800	0.344390767	0.182534978	5.701322246	0.288151755
1.00	1361.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831

EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP	CATLOAD	CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	TOGGBHP	PMGBHP	NOXGBHP	ROGGBHP
1.00	1342.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	2274.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	230.00	250	176	250	217.000000000	0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456
5.00	20.00	50	0	50	35.101920000	0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322
1.00	80.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772
2.00	100.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772
1.00	420.00	500	251	500	354.711540000	0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978
1.00	180.00	250	176	250	212.472220000	0.502500000	0.367000000	1286.375127100	5.535187969	7120.328126800	0.344390767	0.182534978	5.701322246	0.288151755
1.00	1361.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	1342.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	2274.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	230.00	250	176	250	217.000000000	0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456
5.00	20.00	50	0	50	35.101920000	0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322
1.00	80.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772
2.00	100.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772
1.00	420.00	500	251	500	354.711540000	0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978
1.00	180.00	250	176	250	212.472220000	0.502500000	0.367000000	1286.375127100	5.535187969	7120.328126800	0.344390767	0.182534978	5.701322246	0.288151755
1.00	1361.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	1342.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	2274.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	230.00	250	176	250	217.000000000	0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456
5.00	20.00	50	0	50	35.101920000	0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322
1.00	80.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772
2.00	100.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772
1.00	420.00	500	251	500	354.711540000	0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978
1.00	180.00	250	176	250	212.472220000	0.502500000	0.367000000	1286.375127100	5.535187969	7120.328126800	0.344390767	0.182534978	5.701322246	0.288151755
1.00	1361.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	1342.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831
1.00	2274.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831

COGBHP	SOXGBHP	PM10GBHP	PM25GBHP	CO2GBHP	CH4GBHP	N2OGBHP	TOGLBMG	PMLBMG	NOXLBMG	ROGLBMG	COLBMG	SOXLBMG	PM10LBMG
4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566
4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712
4.250000000	0.004994136	0.427684380	0.393469630	529.325410480	0.000066290	0.000029716	25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839
4.250000000	0.004994136	0.151943144	0.139787692	529.325410480	0.000066290	0.000029716	12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791
4.250000000	0.004994136	0.151943144	0.139787692	529.325410480	0.000066290	0.000029716	12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791
4.250000000	0.004994136	0.151943144	0.139787692	529.325410480	0.000066290	0.000029716	12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791
4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566
4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712
4.250000000	0.004994136	0.427684380	0.393469630	529.325410480	0.000066290	0.000029716	25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839
4.250000000	0.004994136	0.151943144	0.139787692	529.325410480	0.000066290	0.000029716	12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791
4.250000000	0.004994136	0.151943144	0.139787692	529.325410480	0.000066290	0.000029716	12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791
4.250000000	0.004994136	0.151943144	0.139787692	529.325410480	0.000066290	0.000029716	12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791
4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566
4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712
4.250000000	0.004994136	0.427684380	0.393469630	529.325410480	0.000066290	0.000029716	25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839
4.250000000	0.004994136	0.151943144	0.139787692	529.325410480	0.000066290	0.000029716	12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791
4.250000000	0.004994136	0.151943144	0.139787692	529.325410480	0.000066290	0.000029716	12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791
4.250000000	0.004994136	0.151943144	0.139787692	529.325410480	0.000066290	0.000029716	12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791
4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566
4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712
4.250000000	0.004994136	0.427684380	0.393469630	529.325410480	0.000066290	0.000029716	25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839
4.250000000	0.004994136	0.151943144	0.139787692	529.325410480	0.000066290	0.000029716	12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791
4.250000000	0.004994136	0.151943144	0.139787692	529.325410480	0.000066290	0.000029716	12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791
4.250000000	0.004994136	0.151943144	0.139787692	529.325410480	0.000066290	0.000029716	12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791
4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566
4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290

COGBHP	SOXGBHP	PM10GBHP	PM25GBHP	CO2GBHP	CH4GBHP	N2OGBHP	TOGLBMG	PMLBMG	NOXLBMG	ROGLBMG	COLBMG	SOXLBMG	PM10LBMG
4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712
4.250000000	0.004994136	0.427684380	0.393469630	529.325410480	0.000066290	0.000029716	25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566
4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712
4.250000000	0.004994136	0.427684380	0.393469630	529.325410480	0.000066290	0.000029716	25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566
4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712
4.250000000	0.004994136	0.427684380	0.393469630	529.325410480	0.000066290	0.000029716	25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566
4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712
4.250000000	0.004994136	0.427684380	0.393469630	529.325410480	0.000066290	0.000029716	25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566
4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712
4.250000000	0.004994136	0.427684380	0.393469630	529.325410480	0.000066290	0.000029716	25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477

COGBHP	SOXGBHP	PM10GBHP	PM25GBHP	CO2GBHP	CH4GBHP	N2OGBHP	TOGLBMG	PMLBMG	NOXLBMG	ROGLBMG	COLBMG	SOXLBMG	PM10LBMG
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566
4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712
4.250000000	0.004994136	0.427684380	0.393469630	529.325410480	0.000066290	0.000029716	25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566
4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712
4.250000000	0.004994136	0.427684380	0.393469630	529.325410480	0.000066290	0.000029716	25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566
4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712
4.250000000	0.004994136	0.427684380	0.393469630	529.325410480	0.000066290	0.000029716	25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566
4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712
4.250000000	0.004994136	0.182534978	0.167932179	529.325410480	0.000066290	0.000029716	14.644828896	7.762094019	242.442297390	12.253328337	359.654638780	0.212370000	7.762094019
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566
4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290

COGBHP	SOXGBHP	PM10GBHP	PM25GBHP	CO2GBHP	CH4GBHP	N2OGBHP	TOGLBMG	PMLBMG	NOXLBMG	ROGLBMG	COLBMG	SOXLBMG	PM10LBMG
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712
4.250000000	0.004994136	0.182534978	0.167932179	529.325410480	0.000066290	0.000029716	14.644828896	7.762094019	242.442297390	12.253328337	359.654638780	0.212370000	7.762094019
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566
4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712
4.250000000	0.004994136	0.182534978	0.167932179	529.325410480	0.000066290	0.000029716	14.644828896	7.762094019	242.442297390	12.253328337	359.654638780	0.212370000	7.762094019
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566
4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712
4.250000000	0.004994136	0.182534978	0.167932179	529.325410480	0.000066290	0.000029716	14.644828896	7.762094019	242.442297390	12.253328337	359.654638780	0.212370000	7.762094019
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566
4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712
4.250000000	0.004994136	0.182534978	0.167932179	529.325410480	0.000066290	0.000029716	14.644828896	7.762094019	242.442297390	12.253328337	359.654638780	0.212370000	7.762094019
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566
4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712
4.250000000	0.004994136	0.182534978	0.167932179	529.325410480	0.000066290	0.000029716	14.644828896	7.762094019	242.442297390	12.253328337	359.654638780	0.212370000	7.762094019
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477

COGBHP	SOXGBHP	PM10GBHP	PM25GBHP	CO2GBHP	CH4GBHP	N2OGBHP	TOGLBMG	PMLBMG	NOXLBMG	ROGLBMG	COLBMG	SOXLBMG	PM10LBMG
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566
4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712
4.250000000	0.004994136	0.182534978	0.167932179	529.325410480	0.000066290	0.000029716	14.644828896	7.762094019	242.442297390	12.253328337	359.654638780	0.212370000	7.762094019
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566
4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712
4.250000000	0.004994136	0.182534978	0.167932179	529.325410480	0.000066290	0.000029716	14.644828896	7.762094019	242.442297390	12.253328337	359.654638780	0.212370000	7.762094019
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566
4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290
4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712
4.250000000	0.004994136	0.182534978	0.167932179	529.325410480	0.000066290	0.000029716	14.644828896	7.762094019	242.442297390	12.253328337	359.654638780	0.212370000	7.762094019
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477
4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477

PM25LBMG	CO2LBMG	CH4LBMG	N2OLBMG	TOGLBD	PMLBD	NOXLBD	ROGLBD	COLBD	SOXLBD	PM10LBD	PM25LBD	CO2LBD	CH4LBD
13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471
18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619
21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889
21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697
6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416
16.731852172	22508.966000000	1.278659612	0.573192240	1.991547536	1.407157983	23.692329184	1.666327823	13.983258929	0.016431599	1.407157983	1.294585344	1741.575122900	0.000218106
5.944313928	22508.966000000	1.278659612	0.573192240	3.227496010	1.684915809	54.283024960	2.700445912	47.128761574	0.055380575	1.684915809	1.550122545	5869.753191900	0.000735100
5.944313928	22508.966000000	1.278659612	0.573192240	3.135281838	1.636775358	52.732081390	2.623290314	45.782225529	0.053798273	1.636775358	1.505833329	5702.045957800	0.000714097
5.944313928	22508.966000000	1.278659612	0.573192240	3.007600678	1.570119348	50.584621062	2.516459487	43.917791005	0.051607393	1.570119348	1.444509800	5469.835941500	0.000685016

PM25LBMG	CO2LBMG	CH4LBMG	N2OLBMG	TOGLBD	PMLBD	NOXLBD	ROGLBD	COLBD	SOXLBD	PM10LBD	PM25LBD	CO2LBD	CH4LBD
6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416
16.731852172	22508.966000000	1.278659612	0.573192240	2.124317372	1.500968515	25.271817796	1.777416345	14.915476190	0.017527039	1.500968515	1.380891034	1857.680131100	0.000232647
6.231539478	22508.966000000	1.278659612	0.573192240	7.309296041	3.866515546	131.967908860	6.115687997	103.165376980	0.121228688	3.866515546	3.557194302	12848.954240000	0.001609141
6.231539478	22508.966000000	1.278659612	0.573192240	7.199216281	3.808284890	129.980440360	6.023584262	101.611681550	0.119402955	3.808284890	3.503622099	12655.445893000	0.001584907
6.231539478	22508.966000000	1.278659612	0.573192240	8.402754987	4.444940060	151.710096030	7.030585097	118.598751650	0.139364305	4.444940060	4.089344855	14771.137153000	0.001849866
13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471
18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619
21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889
21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697

PM25LBMG	CO2LBMG	CH4LBMG	N2OLBMG	TOGLBD	PMLBD	NOXLBD	ROGLBD	COLBD	SOXLBD	PM10LBD	PM25LBD	CO2LBD	CH4LBD
6.231539478	22508.966000000	1.278659612	0.573192240	13.928758921	7.368118982	251.481015080	11.654192589	196.594262570	0.231016114	7.368118982	6.778669463	24485.256172000	0.003066416
13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471
18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619
21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889
21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697
6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416
16.731852172	22508.966000000	1.278659612	0.573192240	2.330848227	1.646896010	27.728800082	1.950220712	16.365591931	0.019231057	1.646896010	1.515144329	2038.287921600	0.000255265
6.231539478	22508.966000000	1.278659612	0.573192240	8.028483804	4.246955830	144.952703110	6.717432399	113.316187170	0.133156812	4.246955830	3.907199364	14113.208773000	0.001767470
6.231539478	22508.966000000	1.278659612	0.573192240	7.059781919	3.734526059	127.462980250	5.906919532	99.643667328	0.117090359	3.734526059	3.435763975	12410.335320000	0.001554211
6.231539478	22508.966000000	1.278659612	0.573192240	13.928758921	7.368118982	251.481015080	11.654192589	196.594262570	0.231016114	7.368118982	6.778669463	24485.256172000	0.003066416
13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471
18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619
21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889
21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697
6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416
16.731852172	22508.966000000	1.278659612	0.573192240	2.330848227	1.646896010	27.728800082	1.950220712	16.365591931	0.019231057	1.646896010	1.515144329	2038.287921600	0.000255265
6.231539478	22508.966000000	1.278659612	0.573192240	8.028483804	4.246955830	144.952703110	6.717432399	113.316187170	0.133156812	4.246955830	3.907199364	14113.208773000	0.001767470
6.231539478	22508.966000000	1.278659612	0.573192240	7.059781919	3.734526059	127.462980250	5.906919532	99.643667328	0.117090359	3.734526059	3.435763975	12410.335320000	0.001554211
6.231539478	22508.966000000	1.278659612	0.573192240	13.928758921	7.368118982	251.481015080	11.654192589	196.594262570	0.231016114	7.368118982	6.778669463	24485.256172000	0.003066416
13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471
18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619
21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889
21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697
6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416
16.731852172	22508.966000000	1.278659612	0.573192240	2.330848227	1.646896010	27.728800082	1.950220712	16.365591931	0.019231057	1.646896010	1.515144329	2038.287921600	0.000255265
6.231539478	22508.966000000	1.278659612	0.573192240	8.028483804	4.246955830	144.952703110	6.717432399	113.316187170	0.133156812	4.246955830	3.907199364	14113.208773000	0.001767470
6.231539478	22508.966000000	1.278659612	0.573192240	7.059781919	3.734526059	127.462980250	5.906919532	99.643667328	0.117090359	3.734526059	3.435763975	12410.335320000	0.001554211
6.231539478	22508.966000000	1.278659612	0.573192240	13.928758921	7.368118982	251.481015080	11.654192589	196.594262570	0.231016114	7.368118982	6.778669463	24485.256172000	0.003066416
13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471
18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619
21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889
21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697
6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416
7.141126498	22508.966000000	1.278659612	0.573192240	1.510809496	0.800763562	25.011157709	1.264094305	18.644345238	0.021908799	0.800763562	0.736702477	2322.100163800	0.000290809
6.231539478	22508.966000000	1.278659612	0.573192240	8.887105929	4.701154946	160.454957460	7.435841531	125.435011570	0.147397531	4.701154946	4.325062550	15622.573880000	0.001956496
6.231539478	22508.966000000	1.278659612	0.573192240	8.549527999	4.522580935	154.360054040	7.153390077	120.670345570	0.141798616	4.522580935	4.160774460	15029.148283000	0.001882178
6.231539478	22508.966000000	1.278659612	0.573192240	16.167047367	8.552142317	291.892874730	13.526968532	228.186069780	0.268139357	8.552142317	7.867970931	28419.925894000	0.003559175
13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471
18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619
21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889

PM25LBMG	CO2LBMG	CH4LBMG	N2OLBMG	TOGLBD	PMLBD	NOXLBD	ROGLBD	COLBD	SOXLBD	PM10LBD	PM25LBD	CO2LBD	CH4LBD
21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697
6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416
7.141126498	22508.966000000	1.278659612	0.573192240	1.510809496	0.800763562	25.011157709	1.264094305	18.644345238	0.021908799	0.800763562	0.736702477	2322.100163800	0.000290809
6.231539478	22508.966000000	1.278659612	0.573192240	8.887105929	4.701154946	160.454957460	7.435841531	125.435011570	0.147397531	4.701154946	4.325062550	15622.573880000	0.001956496
6.231539478	22508.966000000	1.278659612	0.573192240	8.549527999	4.522580935	154.360054040	7.153390077	120.670345570	0.141798616	4.522580935	4.160774460	15029.148283000	0.001882178
6.231539478	22508.966000000	1.278659612	0.573192240	16.167047367	8.552142317	291.892874730	13.526968532	228.186069780	0.268139357	8.552142317	7.867970931	28419.925894000	0.003559175
13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471
18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619
21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889
21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697
6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416
7.141126498	22508.966000000	1.278659612	0.573192240	1.510809496	0.800763562	25.011157709	1.264094305	18.644345238	0.021908799	0.800763562	0.736702477	2322.100163800	0.000290809
6.231539478	22508.966000000	1.278659612	0.573192240	8.887105929	4.701154946	160.454957460	7.435841531	125.435011570	0.147397531	4.701154946	4.325062550	15622.573880000	0.001956496
6.231539478	22508.966000000	1.278659612	0.573192240	8.549527999	4.522580935	154.360054040	7.153390077	120.670345570	0.141798616	4.522580935	4.160774460	15029.148283000	0.001882178
6.231539478	22508.966000000	1.278659612	0.573192240	16.167047367	8.552142317	291.892874730	13.526968532	228.186069780	0.268139357	8.552142317	7.867970931	28419.925894000	0.003559175
13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471
18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619
21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889
21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697
6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416
7.141126498	22508.966000000	1.278659612	0.573192240	1.510809496	0.800763562	25.011157709	1.264094305	18.644345238	0.021908799	0.800763562	0.736702477	2322.100163800	0.000290809
6.231539478	22508.966000000	1.278659612	0.573192240	8.887105929	4.701154946	160.454957460	7.435841531	125.435011570	0.147397531	4.701154946	4.325062550	15622.573880000	0.001956496
6.231539478	22508.966000000	1.278659612	0.573192240	8.549527999	4.522580935	154.360054040	7.153390077	120.670345570	0.141798616	4.522580935	4.160774460	15029.148283000	0.001882178
6.231539478	22508.966000000	1.278659612	0.573192240	16.167047367	8.552142317	291.892874730	13.526968532	228.186069780	0.268139357	8.552142317	7.867970931	28419.925894000	0.003559175
13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471
18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619
21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889
21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697
6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416
7.141126498	22508.966000000	1.278659612	0.573192240	1.510809496	0.800763562	25.011157709	1.264094305	18.644345238	0.021908799	0.800763562	0.736702477	2322.100163800	0.000290809
6.231539478	22508.966000000	1.278659612	0.573192240	9.987903526	5.283461504	180.329642530	8.356878880	140.971965940	0.165654864	5.283461504	4.860784584	17557.657350000	0.002198836
6.231539478	22508.966000000	1.278659612	0.573192240	9.848469163	5.209702673	177.812182430	8.240214149	139.003951720	0.163342268	5.209702673	4.792926459	17312.546777000	0.002168140
6.231539478	22508.966000000	1.278659612	0.573192240	16.688091563	8.827767421	301.300225660	13.962926211	235.540228170	0.276781161	8.827767421	8.121546027	29335.865403000	0.003673882
13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471
18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619
21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889
21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697
6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416
7.141126498	22508.966000000	1.278659612	0.573192240	1.510809496	0.800763562	25.011157709	1.264094305	18.644345238	0.021908799	0.800763562	0.736702477	2322.100163800	0.000290809
6.231539478	22508.966000000	1.278659612	0.573192240	9.987903526	5.283461504	180.329642530	8.356878880	140.971965940	0.165654864	5.283461504	4.860784584	17557.657350000	0.002198836

PM25LBMG	CO2LBMG	CH4LBMG	N2OLBMG	TOGLBD	PMLBD	NOXLBD	ROGLBD	COLBD	SOXLBD	PM10LBD	PM25LBD	CO2LBD	CH4LBD
6.231539478	22508.966000000	1.278659612	0.573192240	9.848469163	5.209702673	177.812182430	8.240214149	139.003951720	0.163342268	5.209702673	4.792926459	17312.546777000	0.002168140
6.231539478	22508.966000000	1.278659612	0.573192240	16.688091563	8.827767421	301.300225660	13.962926211	235.540228170	0.276781161	8.827767421	8.121546027	29335.865403000	0.003673882
13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471
18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619
21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889
21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697
6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416
7.141126498	22508.966000000	1.278659612	0.573192240	1.510809496	0.800763562	25.011157709	1.264094305	18.644345238	0.021908799	0.800763562	0.736702477	2322.100163800	0.000290809
6.231539478	22508.966000000	1.278659612	0.573192240	9.987903526	5.283461504	180.329642530	8.356878880	140.971965940	0.165654864	5.283461504	4.860784584	17557.657350000	0.002198836
6.231539478	22508.966000000	1.278659612	0.573192240	9.848469163	5.209702673	177.812182430	8.240214149	139.003951720	0.163342268	5.209702673	4.792926459	17312.546777000	0.002168140
6.231539478	22508.966000000	1.278659612	0.573192240	16.688091563	8.827767421	301.300225660	13.962926211	235.540228170	0.276781161	8.827767421	8.121546027	29335.865403000	0.003673882
13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471
18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619
21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889
21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697
6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416
7.141126498	22508.966000000	1.278659612	0.573192240	1.510809496	0.800763562	25.011157709	1.264094305	18.644345238	0.021908799	0.800763562	0.736702477	2322.100163800	0.000290809
6.231539478	22508.966000000	1.278659612	0.573192240	9.987903526	5.283461504	180.329642530	8.356878880	140.971965940	0.165654864	5.283461504	4.860784584	17557.657350000	0.002198836
6.231539478	22508.966000000	1.278659612	0.573192240	9.848469163	5.209702673	177.812182430	8.240214149	139.003951720	0.163342268	5.209702673	4.792926459	17312.546777000	0.002168140
6.231539478	22508.966000000	1.278659612	0.573192240	16.688091563	8.827767421	301.300225660	13.962926211	235.540228170	0.276781161	8.827767421	8.121546027	29335.865403000	0.003673882

N2OLBD	CO2ELBD	TOGLB	PMLB	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB	CO2LB	CH4LB
0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941
0.000029864	531.959686060	4.467866918	1.924977776	19.975688501	3.738264250	15.367460317	0.020075558	1.924977776	1.770979554	2127.796117400	0.000266475
0.000039398	701.804330920	3.334137426	2.931753669	34.480538134	2.789672784	22.538941799	0.026485304	2.931753669	2.697213375	2807.161086900	0.000351555
0.000107450	1914.011811600	9.093102070	7.995691823	94.037831274	7.608198502	61.469841270	0.072232646	7.995691823	7.356036477	7655.893873500	0.000958787
0.000206842	3684.472737300	6.093842297	3.488526912	92.398984815	5.098717850	88.747083333	0.104285883	3.488526912	3.209444759	11053.196780000	0.001384249
0.000097772	1741.610012400	5.974642608	4.221473949	71.076987552	4.998983470	41.949776786	0.049294798	4.221473949	3.883756033	5224.725368600	0.000654319
0.000329527	5869.870782500	9.682488030	5.054747428	162.849074880	8.101337735	141.386284720	0.166141726	5.054747428	4.650367634	17609.259576000	0.002205299
0.000320112	5702.160188700	9.405845515	4.910326073	158.196244170	7.869870943	137.346676590	0.161394819	4.910326073	4.517499987	17106.137874000	0.002142290
0.000307076	5469.945520400	9.022802033	4.710358043	151.753863190	7.549378461	131.753373020	0.154822180	4.710358043	4.333529399	16409.507824000	0.002055048
0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941
0.000029864	531.959686060	5.584833648	2.406222220	24.969610626	4.672830313	19.209325397	0.025094448	2.406222220	2.213724443	2659.745146800	0.000333094
0.000039398	701.804330920	4.167671782	3.664692086	43.100672667	3.487090980	28.173677249	0.033106630	3.664692086	3.371516719	3508.951358700	0.000439444
0.000107450	1914.011811600	11.366377588	9.994614779	117.547289090	9.510248128	76.837301587	0.090290808	9.994614779	9.195045597	9569.867341800	0.001198484
0.000206842	3684.472737300	8.125123063	4.651369216	123.198646420	6.798290467	118.329444440	0.139047844	4.651369216	4.279259678	14737.595706000	0.001845666
0.000097772	1741.610012400	7.966190144	5.628631932	94.769316736	6.665311294	55.933035714	0.065726397	5.628631932	5.178341378	6966.300491500	0.000872426
0.000329527	5869.870782500	12.909984041	6.739663237	217.132099840	10.801783647	188.515046300	0.221522301	6.739663237	6.200490178	23479.012768000	0.002940398
0.000320112	5702.160188700	12.541127354	6.547101431	210.928325560	10.493161257	183.128902120	0.215193092	6.547101431	6.023333316	22808.183831000	0.002856387
0.000307076	5469.945520400	12.030402710	6.280477391	202.338484250	10.065837948	175.671164020	0.206429573	6.280477391	5.778039199	21879.343766000	0.002740064
0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941
0.000029864	531.959686060	6.701800377	2.887466665	29.963532751	5.607396376	23.051190476	0.030113338	2.887466665	2.656469331	3191.694176100	0.000399712
0.000039398	701.804330920	5.001206139	4.397630503	51.720807201	4.184509176	33.808412698	0.039727956	4.397630503	4.045820063	4210.741630400	0.000527333
0.000107450	1914.011811600	13.639653106	11.993537735	141.056746910	11.412297753	92.204761905	0.108348970	11.993537735	11.034054716	11483.840810000	0.001438181
0.000206842	3684.472737300	10.156403829	5.814211519	153.998308030	8.497863084	147.911805560	0.173809805	5.814211519	5.349074598	18421.994633000	0.002307082
0.000097772	1741.610012400	9.957737681	7.035789915	118.461645920	8.331639117	69.916294643	0.082157996	7.035789915	6.472926722	8707.875614300	0.001090532
0.000329527	5869.870782500	16.137480051	8.424579047	271.415124800	13.502229558	235.643807870	0.276902876	8.424579047	7.750612723	29348.765959000	0.003675498
0.000320112	5702.160188700	15.676409192	8.183876788	263.660406950	13.116451571	228.911127650	0.268991366	8.183876788	7.529166645	28510.229789000	0.003570484
0.000307076	5469.945520400	15.038003388	7.850596738	252.923105310	12.582297435	219.588955030	0.258036966	7.850596738	7.222548999	27349.179707000	0.003425080
0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941
0.000029864	531.959686060	7.818767107	3.368711109	34.957454876	6.541962438	26.893055556	0.035132227	3.368711109	3.099214220	3723.643205500	0.000466331
0.000039398	701.804330920	5.834740495	5.130568920	60.340941734	4.881927372	39.443148148	0.046349281	5.130568920	4.720123406	4912.531902100	0.000615222
0.000107450	1914.011811600	15.912928623	13.992460691	164.566204730	13.314347379	107.572222220	0.126407131	13.992460691	12.873063835	13397.814279000	0.001677878
0.000206842	3684.472737300	12.187684595	6.977053823	184.797969630	10.197435700	177.494166670	0.208571766	6.977053823	6.418889517	22106.393560000	0.002768498
0.000097772	1741.610012400	11.949285217	8.442947898	142.153975100	9.997966941	83.899553571	0.098589596	8.442947898	7.767512066	10449.450737000	0.001308639
0.000329527	5869.870782500	19.364976061	10.109494856	325.698149760	16.202675470	282.772569440	0.332283452	10.109494856	9.300735268	35218.519151000	0.004410598
0.000320112	5702.160188700	18.811691031	9.820652146	316.392488340	15.739741885	274.693353170	0.322789639	9.820652146	9.034999974	34212.275747000	0.004284581
0.000307076	5469.945520400	18.045604066	9.420716086	303.507726370	15.098756922	263.506746030	0.309644359	9.420716086	8.667058799	32819.015649000	0.004110095
0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941
0.000029864	531.959686060	10.052700566	4.331199997	44.945299127	8.411094564	34.576785714	0.045170006	4.331199997	3.984703997	4787.541264200	0.000599569
0.000039398	701.804330920	7.501809208	6.596445754	77.581210801	6.276763764	50.712619048	0.059591933	6.596445754	6.068730094	6316.112445600	0.000791000
0.000107450	1914.011811600	20.459479658	17.990306602	211.585120370	17.118446630	138.307142860	0.162523454	17.990306602	16.551082074	17225.761215000	0.002157271
0.000206842	3684.472737300	16.250246126	9.302738431	246.397292840	13.596580934	236.658888890	0.278095689	9.302738431	8.558519357	29475.191413000	0.003691331
0.000097772	1741.610012400	15.932380289	11.257263864	189.538633470	13.330622588	111.866071430	0.131452794	11.257263864	10.356682755	13932.600983000	0.001744852
0.000329527	5869.870782500	25.819968081	13.479326475	434.264199680	21.603567294	377.030092590	0.443044602	13.479326475	12.400980357	46958.025535000	0.005880797
0.000320112	5702.160188700	25.082254707	13.094202861	421.856651120	20.986322514	366.257804230	0.430386185	13.094202861	12.046666632	45616.367663000	0.005712774
0.000307076	5469.945520400	24.060805421	12.560954781	404.676968490	20.131675896	351.342328040	0.412859146	12.560954781	11.556078399	43758.687532000	0.005480127
0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941
0.000029864	531.959686060	12.286634025	5.293688885	54.933143377	10.280226689	42.260515873	0.055207786	5.293688885	4.870193774	5851.439322900	0.000732806
0.000039398	701.804330920	9.168877921	8.062322588	94.821479868	7.671600157	61.982089947	0.072834585	8.062322588	7.417336781	7719.692989100	0.000966777
0.000107450	1914.011811600	25.006030694	21.988152514	258.604036000	20.922545881	169.042063490	0.198639778	21.988152514	20.229100313	21053.708152000	0.002636665

N2OLBD	CO2ELBD	TOGLB	PMLB	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB	CO2LB	CH4LB
0.000206842	3684.472737300	20.312807658	11.628423039	307.996616050	16.995726167	295.823611110	0.347619611	11.628423039	10.698149196	36843.989266000	0.004614164
0.000104290	1857.717346500	21.243173719	15.009685153	252.718177960	17.774163450	149.154761900	0.175270392	15.009685153	13.808910340	18576.801311000	0.002326469
0.000721339	12849.211647000	73.092960408	38.665155458	1319.679088600	61.156879973	1031.653769800	1.212286878	38.665155458	35.571943021	128489.542400000	0.016091411
0.000710476	12655.699423000	71.992162811	38.082848900	1299.804403600	60.235842624	1016.116815500	1.194029546	38.082848900	35.036220988	126554.458930000	0.015849071
0.000829250	14771.433068000	84.027549866	44.449400602	1517.100960300	70.305850973	1185.987516500	1.393643048	44.449400602	40.893448554	147711.371530000	0.018498661
0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941
0.000029864	531.959686060	14.520567484	6.256177773	64.920987627	12.149358814	49.944246032	0.065245565	6.256177773	5.755683551	6915.337381600	0.000866044
0.000039398	701.804330920	10.835946634	9.528199423	112.061748930	9.066436549	73.251560847	0.086077237	9.528199423	8.765943469	9123.273532500	0.001142555
0.000107450	1914.011811600	29.552581729	25.985998425	305.622951640	24.726645133	199.776984130	0.234756101	25.985998425	23.907118551	24881.655089000	0.003116059
0.000206842	3684.472737300	24.375369189	13.954107647	369.595939260	20.394871401	354.988333330	0.417143533	13.954107647	12.837779035	44212.787119000	0.005536997
0.000104290	1857.717346500	25.491808462	18.011622183	303.261813560	21.328996140	178.985714290	0.210324470	18.011622183	16.570692408	22292.161573000	0.002791763
0.000721339	12849.211647000	87.711552489	46.398186550	1583.614906400	73.388255968	1237.984523800	1.454744254	46.398186550	42.686331626	154187.450880000	0.019309694
0.000710476	12655.699423000	86.390595373	45.699418680	1559.765284300	72.283011149	1219.340178600	1.432835455	45.699418680	42.043465185	151865.350710000	0.019018885
0.000829250	14771.433068000	100.833059840	53.339280722	1820.521152400	84.367021168	1423.185019800	1.672371657	53.339280722	49.072138264	177253.645840000	0.022198393
0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941
0.000029864	531.959686060	17.871467673	7.699911105	79.902754003	14.953057002	61.469841270	0.080302234	7.699911105	7.083918217	8511.184469700	0.001065900
0.000039398	701.804330920	13.336549703	11.727014674	137.922152540	11.158691137	90.155767196	0.105941215	11.727014674	10.788853500	11228.644348000	0.001406221
0.000107450	1914.011811600	36.372408282	31.982767293	376.151325100	30.432794009	245.879365080	0.288930586	31.982767293	29.424145909	30623.575494000	0.003835149
0.000206842	3684.472737300	30.469211487	17.442634558	461.994924080	25.493589251	443.735416670	0.521429416	17.442634558	16.047223794	55265.983899000	0.006921246
0.000104290	1857.717346500	31.864760578	22.514527729	379.077266940	26.661245175	223.732142860	0.262905588	22.514527729	20.713365511	27865.201966000	0.003489704
0.000721339	12849.211647000	109.639440610	57.997733187	1979.518633000	91.735319960	1547.480654800	1.818430317	57.997733187	53.357914532	192734.313600000	0.024137117
0.000710476	12655.699423000	107.988244220	57.124273350	1949.706605400	90.353763936	1524.175223200	1.791044318	57.124273350	52.554331482	189831.688390000	0.023773606
0.000829250	14771.433068000	126.041324800	66.674100903	2275.651440500	105.458776460	1778.981274800	2.090464571	66.674100903	61.340172831	221567.057300000	0.027747991
0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941
0.000029864	531.959686060	21.222367861	9.143644438	94.884520378	17.756755190	72.995436508	0.095358902	9.143644438	8.412152883	10107.031558000	0.001265756
0.000039398	701.804330920	15.837152773	13.925829925	163.782556140	13.250945725	107.059973540	0.125805192	13.925829925	12.811763531	13334.015163000	0.001669888
0.000107450	1914.011811600	43.192234834	37.979536160	446.679698550	36.138942886	291.981746030	0.343105070	37.979536160	34.941173267	36365.495899000	0.004554240
0.000206842	3684.472737300	36.563053784	20.931161470	554.393908890	30.592307101	532.482500000	0.625715299	20.931161470	19.256668552	66319.180679000	0.008305495
0.000104290	1857.717346500	38.237712693	27.017433275	454.892720330	31.993494211	268.478571430	0.315486706	27.017433275	24.856038613	33438.242359000	0.004187644
0.000721339	12849.211647000	131.567328730	69.597279824	2375.422359500	110.082383950	1856.976785700	2.182116380	69.597279824	64.029497438	231281.176320000	0.028964541
0.000710476	12655.699423000	129.585893060	68.549128020	2339.647926400	108.424516720	1829.010267900	2.149253182	68.549128020	63.065197778	227798.026070000	0.028528328
0.000829250	14771.433068000	151.249589760	80.008921083	2730.781728600	126.550531750	2134.777529800	2.508557486	80.008921083	73.608207397	265880.468760000	0.033297589
0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941
0.000029864	531.959686060	26.807201509	11.549866658	119.854131000	22.429585503	92.204761905	0.120453350	11.549866658	10.625877326	12766.776705000	0.001598850
0.000039398	701.804330920	20.004824555	17.590522011	206.883228800	16.738036705	135.233650790	0.158911822	17.590522011	16.183280250	16842.966522000	0.002109332
0.000107450	1914.011811600	54.558612422	47.974150939	564.226987640	45.649191014	368.819047620	0.433395878	47.974150939	44.136218864	45935.363241000	0.005752724
0.000206842	3684.472737300	46.719457613	26.745372989	708.392216920	39.090170185	680.394305560	0.799525105	26.745372989	24.605743150	84741.175312000	0.010612577
0.000104290	1857.717346500	48.859299553	34.522275851	581.251809310	40.880575936	343.055952380	0.403121902	34.522275851	31.760493783	42726.643014000	0.005350879
0.000721339	12849.211647000	168.113808940	88.929857553	3035.261903900	140.660823940	2372.803670600	2.788259819	88.929857553	81.815468949	295525.947520000	0.037010246
0.000710476	12655.699423000	165.581974470	87.590552470	2989.550128200	138.542438040	2337.068675600	2.746267955	87.590552470	80.583308272	291075.255540000	0.036452863
0.000829250	14771.433068000	193.263364690	102.233621380	3489.332208800	161.703457240	2727.771288000	3.205379009	102.233621380	94.054931673	339736.154520000	0.042546920
0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941
0.000029864	531.959686060	32.392035157	13.956088879	144.823741630	27.102415816	111.414087300	0.145547798	13.956088879	12.839601768	15426.521851000	0.001931943
0.000039398	701.804330920	24.172496337	21.255214097	249.983901470	20.225127685	163.407328040	0.192018452	21.255214097	19.554796969	20351.917880000	0.002548776
0.000107450	1914.011811600	65.924990010	57.968765718	681.774276740	55.159439142	445.656349210	0.523686686	57.968765718	53.331264461	55505.230583000	0.006951208
0.000206842	3684.472737300	56.875861442	32.559584509	862.390524940	47.588033268	828.306111110	0.973334910	32.559584509	29.954817748	103163.169940000	0.012919659
0.000114429	2038.328755200	65.263750369	46.113088274	776.406402300	54.606179933	458.236574070	0.538469593	46.113088274	42.424041212	57072.061804000	0.007147430
0.000792314	14113.491508000	224.797546510	118.914763250	4058.675687100	188.088107160	3172.853240700	3.728390728	118.914763250	109.401582190	395169.845660000	0.049489168
0.000696715	12410.583940000	197.673893730	104.566729660	3568.963446900	165.393746880	2790.022685200	3.278530055	104.566729660	96.201391288	347489.388960000	0.043517897

N2OLBD	CO2ELBD	TOGLB	PMLB	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB	CO2LB	CH4LB
0.001374600	24485.746693000	390.005249790	206.307331490	7041.468422400	326.317392500	5504.639351900	6.468451189	206.307331490	189.802744970	685587.172810000	0.085859635
0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941
0.000029864	531.959686060	40.210802264	17.324799987	179.781196510	33.644378254	138.307142860	0.180680026	17.324799987	15.938815988	19150.165057000	0.002398274
0.000039398	701.804330920	30.007236832	26.385783017	310.324843200	25.107055058	202.850476190	0.238367733	26.385783017	24.274920375	25264.449782000	0.003163998
0.000107450	1914.011811600	81.837918634	71.961226409	846.340481460	68.473786521	553.228571430	0.650093818	71.961226409	66.204328296	68903.044861000	0.008629085
0.000206842	3684.472737300	71.094826802	40.699480636	1077.988156200	59.485041585	1035.382638900	1.216668638	40.699480636	37.443522185	128953.962430000	0.016149573
0.000114429	2038.328755200	81.579687961	57.641360343	970.508002870	68.257724917	572.795717590	0.673086992	57.641360343	53.030051516	71340.077255000	0.008934288
0.000792314	14113.491508000	280.996933130	148.643454060	5073.344608800	235.110133950	3966.066550900	4.660488410	148.643454060	136.751977740	493962.307070000	0.061861460
0.000696715	12410.583940000	247.092367160	130.708412080	4461.204308700	206.742183600	3487.528356500	4.098162569	130.708412080	120.251739110	434361.736200000	0.054397372
0.001374600	24485.746693000	487.506562240	257.884164370	8801.835527900	407.896740620	6880.799189800	8.085563987	257.884164370	237.253431220	856983.966020000	0.107324544
0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941
0.000029864	531.959686060	49.146536100	21.174755540	219.732573510	41.120906755	169.042063490	0.220831142	21.174755540	19.480775097	23405.757292000	0.002931224
0.000039398	701.804330920	36.675511684	32.249290354	379.285919470	30.686400626	247.928359790	0.291338340	32.249290354	29.669347125	30878.771956000	0.003867109
0.000107450	1914.011811600	100.024122770	87.952610055	1034.416144000	83.690183525	676.168253970	0.794559110	87.952610055	80.916401251	84214.832608000	0.010546660
0.000206842	3684.472737300	87.345072928	50.002219067	1324.385449000	73.081622519	1272.041527800	1.494764326	50.002219067	46.002041542	158429.153840000	0.019840904
0.000114429	2038.328755200	100.226473780	70.816528421	1192.338403500	83.859490612	703.720453040	0.826935447	70.816528421	65.151206148	87646.380628000	0.010976411
0.000792314	14113.491508000	345.224803560	182.619100710	6232.966233700	288.849593140	4872.596048300	5.725742903	182.619100710	168.009572650	606867.977260000	0.076001223
0.000696715	12410.583940000	303.570622510	160.584620550	5480.908150700	253.997539860	4284.677695100	5.034885441	160.584620550	147.737850910	533644.418760000	0.066831057
0.001374600	24485.746693000	598.936633610	316.829116220	10813.683649000	501.130281340	8453.553290300	9.933692898	316.829116220	291.482786920	1052866.015400000	0.131855869
0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941
0.000029864	531.959686060	60.316203396	25.987199981	269.671794760	50.466567381	207.460714290	0.271020038	25.987199981	23.908223982	28725.247585000	0.003597412
0.000039398	701.804330920	45.010855249	39.578674525	465.487264810	37.660582586	304.275714290	0.357551600	39.578674525	36.412380563	37896.674674000	0.004745997
0.000107450	1914.011811600	122.756877950	107.941839610	1269.510722200	102.710679780	829.842857140	0.975140726	107.941839610	99.306492444	103354.567290000	0.012943628
0.000206842	3684.472737300	107.657880590	61.630642106	1632.382065100	90.077348686	1567.865138900	1.842383937	61.630642106	56.700190738	195273.143110000	0.024455068
0.000114429	2038.328755200	123.534956050	87.285488519	1469.626404300	103.361697730	867.376372350	1.019246016	87.285488519	80.302649438	108029.259840000	0.013529064
0.000792314	14113.491508000	425.509641600	225.088659010	7682.493264800	356.023917130	6005.757920000	7.057311020	225.088659010	207.081566290	748000.064990000	0.093675925
0.000696715	12410.583940000	374.168441700	197.929881140	6755.537953100	313.066735170	5281.114368400	6.205789032	197.929881140	182.095490650	657747.771960000	0.082373163
0.001374600	24485.746693000	738.224222820	390.510306040	13328.493799000	617.672207230	10419.495916000	12.243854037	390.510306040	359.269481560	1297718.577100000	0.162520024
0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941
0.000029864	531.959686060	73.719804150	31.762133310	329.598860260	61.681360132	253.563095240	0.331246714	31.762133310	29.221162645	35108.635937000	0.004396836
0.000039398	701.804330920	55.013267526	48.373935530	568.928879210	46.029600939	371.892539680	0.437007511	48.373935530	44.504020688	46318.157934000	0.005800663
0.000107450	1914.011811600	150.036184160	131.928915080	1551.624216000	125.535275290	1014.252381000	1.191838666	131.928915080	121.374601880	126322.248910000	0.015819990
0.000206842	3684.472737300	132.033249780	75.584749753	2001.978004300	110.472220090	1922.853472200	2.259527470	75.584749753	69.537969773	239485.930230000	0.029992064
0.000114429	2038.328755200	151.505134780	107.048240640	1802.372005300	126.764346270	1063.763475500	1.250018699	107.048240640	98.484381386	132488.714900000	0.016592249
0.000792314	14113.491508000	521.851447250	276.052128980	9421.925702100	436.633105910	7365.552166000	8.655192761	276.052128980	253.967958660	917358.570280000	0.114885569
0.000696715	12410.583940000	458.885824730	242.744193850	8285.093716100	383.949769550	6476.838376300	7.610873342	242.744193850	223.324658350	806671.795800000	0.101023690
0.001374600	24485.746693000	905.369329870	478.927733820	16346.265980000	757.522518300	12778.627067000	15.016047404	478.927733820	440.613515120	1591541.651200000	0.199317011
0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941
0.000029864	531.959686060	91.591271823	39.462044415	409.501614260	76.634417134	315.032936510	0.411548947	39.462044415	36.305080862	43619.820407000	0.005462736
0.000039398	701.804330920	68.349817229	60.100950204	706.851031740	57.188292076	462.048306880	0.542948725	60.100950204	55.292874188	57546.802282000	0.007206884
0.000107450	1914.011811600	186.408592440	163.911682380	1927.775541100	155.968069300	1260.131746000	1.480769251	163.911682380	150.798747790	156945.824410000	0.019655139
0.000206842	3684.472737300	164.533742030	94.190226615	2494.772590000	137.665381950	2396.171250000	2.815718847	94.190226615	86.655008486	298436.313050000	0.037374726
0.000130362	2322.146683200	122.375569180	64.861848530	2025.903774400	102.391638730	1510.191964300	1.774612719	64.861848530	59.672900648	188090.113270000	0.023555500
0.000877050	15622.886852000	719.855580260	380.793550610	12996.851555000	602.303164000	10160.235937000	11.939200015	380.793550610	350.330066560	1265428.484300000	0.158476168
0.000843735	15029.449366000	692.511767960	366.329055700	12503.164377000	579.424596250	9774.297991100	11.485687876	366.329055700	337.022731250	1217361.010900000	0.152456430
0.001595492	28420.495239000	1309.530836800	692.723527650	23643.322853000	1095.684451100	18483.071652000	21.719287889	692.723527650	637.305645440	2302013.997400000	0.288293145
0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941
0.000029864	531.959686060	112.813639680	48.605688853	504.386134640	94.391172324	388.028373020	0.506907850	48.605688853	44.717233745	53726.851965000	0.006728492
0.000039398	701.804330920	84.186970002	74.026780130	870.633587880	70.439237801	569.108280420	0.668753918	74.026780130	68.104637719	70880.817445000	0.008876772

N2OLBD	CO2ELBD	TOGLB	PMLB	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB	CO2LB	CH4LB
0.000107450	1914.011811600	229.600827280	201.891218540	2374.455239700	192.107012180	1552.113492100	1.823874322	201.891218540	185.739921050	193311.320300000	0.024209379
0.000206842	3684.472737300	203.128076580	116.284230390	3079.966160500	169.957261670	2958.236111100	3.476196108	116.284230390	106.981491960	368439.892660000	0.046141638
0.000130362	2322.146683200	151.080949600	80.076356210	2501.115770900	126.409430530	1864.434523800	2.190879900	80.076356210	73.670247713	232210.016380000	0.029080864
0.000877050	15622.886852000	888.710592910	470.115494570	16045.495746000	743.584153090	12543.501157000	14.739753105	470.115494570	432.506255010	1562257.388000000	0.195649591
0.000843735	15029.449366000	854.952799950	452.258093460	15436.005404000	715.339007720	12067.034557000	14.179861575	452.258093460	416.077445980	1502914.828300000	0.188217814
0.001595492	28420.495239000	1616.704736700	855.214231670	29189.287473000	1352.696853200	22818.606978000	26.813935665	855.214231670	786.797093130	2841992.589400000	0.355917464
0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941
0.000029864	531.959686060	139.620841190	60.155555511	624.240265650	116.820757830	480.233134920	0.627361200	60.155555511	55.343111070	66493.628669000	0.008327342
0.000039398	701.804330920	104.191794560	91.617302141	1077.516816700	87.177274506	704.341931220	0.827665740	91.617302141	84.287917970	87723.783967000	0.010986104
0.000107450	1914.011811600	284.159439700	249.865369480	2938.682227300	237.756203200	1920.932539700	2.257270200	249.865369480	229.876139920	239246.683550000	0.029962102
0.000206842	3684.472737300	251.878814960	144.192445680	3819.158039000	210.747004470	3668.212777800	4.310483174	144.192445680	132.657050030	456865.466900000	0.057215631
0.000130362	2322.146683200	187.340377510	99.294681700	3101.383555900	156.747693860	2311.898809500	2.716691076	99.294681700	91.351107164	287940.420310000	0.036060271
0.000877050	15622.886852000	1102.001135200	582.943213270	19896.414726000	922.044349830	15553.941435000	18.277293850	582.943213270	536.307756210	1937199.161100000	0.242605493
0.000843735	15029.449366000	1060.141471900	560.800035890	19140.646701000	887.020369570	14963.122851000	17.583028353	560.800035890	515.936033020	1863614.387000000	0.233390090
0.001595492	28420.495239000	2004.713873500	1060.465647300	36194.716466000	1677.344098000	28295.072652000	33.249280225	1060.465647300	975.628395490	3524070.810800000	0.441337655
0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941
0.000029864	531.959686060	172.012876350	74.111644390	769.064007280	143.923173640	591.647222220	0.772908998	74.111644390	68.182712839	81920.150521000	0.010259285
0.000039398	701.804330920	128.364290890	112.872516240	1327.500718100	107.402402190	867.749259260	1.019684192	112.872516240	103.842714940	108075.701850000	0.013534880
0.000107450	1914.011811600	350.084429710	307.834135190	3620.456504000	292.915642340	2366.588888900	2.780956886	307.834135190	283.207404380	294751.914130000	0.036913310
0.000206842	3684.472737300	310.785957160	177.914872490	4712.348225600	260.034610360	4526.101250000	5.318580045	177.914872490	163.681682700	563713.035770000	0.070596706
0.000130362	2322.146683200	231.153852890	122.516825000	3826.707129400	193.406428720	2852.584821400	3.352046247	122.516825000	112.715479000	355281.325070000	0.044493722
0.000877050	15622.886852000	1359.727207200	719.276706700	24549.608492000	1137.683754200	19191.556771000	22.551822251	719.276706700	661.734570160	2390253.803600000	0.299343874
0.000843735	15029.449366000	1308.077783900	691.954882990	23617.088269000	1094.468681800	18462.562872000	21.695188210	691.954882990	636.598492350	2299459.687200000	0.287973256
0.001595492	28420.495239000	2473.558247200	1308.477774400	44659.609833000	2069.626185400	34912.468676000	41.025321567	1308.477774400	1203.799552500	4348248.661800000	0.544553719
0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941
0.000029864	531.959686060	213.340645340	91.917688821	953.839125910	178.502117960	733.796230160	0.958607914	91.917688821	84.564273716	101602.264610000	0.012724178
0.000039398	701.804330920	159.205062080	139.991237670	1646.445695900	133.206875440	1076.234470900	1.264673251	139.991237670	128.791938660	134041.941900000	0.016786767
0.000107450	1914.011811600	434.195623860	381.794284560	4490.306443300	363.291478490	2935.184920600	3.449108866	381.794284560	351.250741790	365568.932460000	0.045782092
0.000206842	3684.472737300	385.943345500	220.940037740	5851.935705000	322.918797180	5620.648611100	6.604772605	220.940037740	203.264834720	700035.796050000	0.087669111
0.000130362	2322.146683200	287.053804250	152.145076800	4752.119964600	240.177918010	3542.425595200	4.162671810	152.145076800	139.973470650	441199.031130000	0.055253642
0.000877050	15622.886852000	1688.550126500	893.219439690	30486.441918000	1412.809890900	23832.652199000	28.005530900	893.219439690	821.761884520	2968289.037200000	0.371734222
0.000843735	15029.449366000	1624.410319900	859.290377570	29328.410268000	1359.144114700	22927.365658000	26.941736993	859.290377570	790.547147370	2855538.173700000	0.357613847
0.001595492	28420.495239000	3071.738999800	1624.907040200	55459.646198000	2570.124021100	43355.353257000	50.946477764	1624.907040200	1494.914477000	5399785.919800000	0.676243181
0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941
0.000029864	531.959686060	262.487181440	113.092444360	1173.571699400	219.623024710	902.838293650	1.179439056	113.092444360	104.045048810	125008.021900000	0.015655403
0.000039398	701.804330920	195.880573770	172.240528020	2025.731615400	163.893276070	1324.162830700	1.556011591	172.240528020	158.461285780	164920.713860000	0.020653876
0.000107450	1914.011811600	534.219746640	469.746894610	5524.722587300	446.981662010	3611.353174600	4.243667976	469.746894610	432.167143040	449783.765070000	0.056328752
0.000206842	3684.472737300	475.319699190	272.105099110	7207.120815600	397.699992310	6922.272500000	8.134298893	272.105099110	250.336691180	862149.348830000	0.107971432
0.000130362	2322.146683200	353.529422070	187.378673530	5852.610903800	295.798067450	4362.776785700	5.126658966	187.378673530	172.388379650	543371.438340000	0.068049222
0.000985685	17558.009088000	2337.169425000	1236.329991900	42197.136353000	1955.509657900	32987.440030000	38.763238071	1236.329991900	1137.423592500	4108491.819900000	0.514527727
0.000971925	17312.893605000	2304.541784200	1219.070425500	41608.050687000	1928.210110900	32526.924702000	38.222090735	1219.070425500	1121.544791500	4051135.945800000	0.507344754
0.001646913	29336.453098000	3905.013425700	2065.697576500	70504.252804000	3267.324733300	55116.413393000	64.766791604	2065.697576500	1900.441770400	6864592.504300000	0.859688502
0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941
0.000029864	531.959686060	325.037318300	140.042133230	1453.231338400	271.958724220	1117.982738100	1.460496874	140.042133230	128.838762570	154797.167540000	0.019386052
0.000039398	701.804330920	242.558497730	213.285079380	2508.459149200	202.948695050	1639.708015900	1.926805843	213.285079380	196.222273030	204220.969070000	0.025575651
0.000107450	1914.011811600	661.523175620	581.686580140	6841.252225200	553.496441040	4471.930952400	5.254925026	581.686580140	535.151653730	556966.279290000	0.069751774
0.000206842	3684.472737300	589.071422070	337.224268130	8931.901865500	492.876058850	8578.884722200	10.080968713	337.224268130	310.246326680	1068475.688700000	0.133810749
0.000130362	2322.146683200	438.134753850	232.221433010	7253.235735500	366.587348550	5406.860119000	6.353551710	232.221433010	213.643718370	673409.047510000	0.084334506
0.000985685	17558.009088000	2896.492022400	1532.203836100	52295.596335000	2423.494875200	40881.870122000	48.039910430	1532.203836100	1409.627529200	5091720.631400000	0.637662568

N2OLBD	CO2ELBD	TOGLB	PMLB	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB	CO2LB	CH4LB
0.000971925	17312.893605000	2856.056057400	1510.813775200	51565.532903000	2389.662103200	40311.145999000	47.369257749	1510.813775200	1389.948673200	5020638.565300000	0.628760592
0.001646913	29336.453098000	4839.546553300	2560.052552000	87377.065441000	4049.248601100	68306.666171000	80.266536603	2560.052552000	2355.248347900	8507400.966900000	1.065425922
0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941
0.000029864	531.959686060	402.108022640	173.247999870	1797.811965100	336.443782540	1383.071428600	1.806800256	173.247999870	159.388159880	191501.650570000	0.023982744
0.000039398	701.804330920	300.072368320	263.857830170	3103.248432000	251.070550580	2028.504761900	2.383677331	263.857830170	242.749203750	252644.497820000	0.031639980
0.000107450	1914.011811600	818.379186340	719.612264090	8463.404814600	684.737865210	5532.285714300	6.500938176	719.612264090	662.043282960	689030.448610000	0.086290855
0.000206842	3684.472737300	729.229794910	417.460387100	11057.078516000	610.146569400	10620.067639000	12.479544028	417.460387100	384.063556130	1322699.214700000	0.165648479
0.000130362	2322.146683200	542.380609080	287.474118790	8979.005617400	453.809855610	6693.319940500	7.865258841	287.474118790	264.476189290	833633.958810000	0.104400302
0.000985685	17558.009088000	3585.657365700	1896.762679900	64738.341670000	3000.119517900	50608.935772000	59.470096014	1896.762679900	1745.021665500	6303198.988600000	0.789382282
0.000971925	17312.893605000	3535.600429600	1870.283259700	63834.573491000	2958.236879500	49902.418667000	58.639874248	1870.283259700	1720.660598900	6215204.292900000	0.778362250
0.001646913	29336.453098000	5991.024871100	3169.168504100	108166.781010000	5012.690509700	84558.941915000	99.364436691	3169.168504100	2915.635023800	10531575.680000000	1.318923813
0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941
0.000029864	531.959686060	497.050194650	214.153777620	2222.295345700	415.881897860	1709.629960300	2.233405872	214.153777620	197.021475410	236717.318060000	0.029645337
0.000039398	701.804330920	370.922788620	326.157595620	3835.959867400	310.351097240	2507.457275100	2.946490034	326.157595620	300.064987970	312296.670920000	0.039110531
0.000107450	1914.011811600	1011.607605300	889.520715330	10461.708729000	846.412083380	6838.519841300	8.035881912	889.520715330	818.359058110	851718.193420000	0.106665084
0.000206842	3684.472737300	901.888660000	516.301982930	13675.049753000	754.610241830	13134.568333000	15.434310720	516.301982930	474.997824290	1635873.123400000	0.204868871
0.000130362	2322.146683200	670.799416240	355.539021570	11104.954023000	561.257871570	8278.089285700	9.727506756	355.539021570	327.095899850	1031012.472700000	0.129119036
0.000985685	17558.009088000	4434.629165400	2345.856907700	80066.361285000	3710.454222700	62591.552877000	73.550759416	2345.856907700	2158.188355100	7795599.863300000	0.976283380
0.000971925	17312.893605000	4372.720308500	2313.107986900	78948.608997000	3658.655082200	61717.754563000	72.523967036	2313.107986900	2128.059347900	7686770.769000000	0.962654148
0.001646913	29336.453098000	7409.512654000	3919.528734900	133777.300190000	6199.539237600	104579.861310000	122.890835350	3919.528734900	3605.966436100	13025124.239000000	1.631203825
0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941
0.000029864	531.959686060	614.331701250	264.684444250	2746.657168800	514.011334440	2113.025793700	2.760389280	264.684444250	243.509688710	292571.966150000	0.036640304
0.000039398	701.804330920	458.443896050	403.116129420	4741.073993400	383.580007820	3099.104497400	3.641729256	403.116129420	370.866839070	385984.649450000	0.048338858
0.000107450	1914.011811600	1250.301534700	1099.407625700	12930.201800000	1046.127294100	8452.103174600	9.931988880	1099.407625700	1011.455015600	1052685.407600000	0.131833250
0.000206842	3684.472737300	1115.173140400	638.400424830	16909.014221000	933.065366580	16240.716250000	19.084316633	638.400424830	587.328390850	2022735.010700000	0.253317590
0.000130362	2322.146683200	829.434413320	439.619195590	13731.125582000	693.987773630	10235.745536000	12.027930651	439.619195590	404.449659940	1274832.989900000	0.159653943
0.000985685	17558.009088000	5483.359035500	2900.620365600	99000.973751000	4587.926505000	77393.609301000	90.944520089	2900.620365600	2668.570736400	9639153.885100000	1.207161206
0.000971925	17312.893605000	5406.809570700	2860.126767600	97618.888151000	4523.877567800	76313.169494000	89.674905187	2860.126767600	2631.316626200	9504588.180600000	1.190308845
0.001646913	29336.453098000	9161.762268100	4846.444314000	165413.823890000	7665.646489700	129311.585270000	151.952857220	4846.444314000	4458.728768900	16105390.106000000	2.016961486

N2OLB	CO2ELB	TOGTON	PMTON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	CO2TONNE	CH4TONNE	N2OTONNE	CO2ETONNE
0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.000119454	2127.838744200	0.002233933	0.000962489	0.009987844	0.001869132	0.007683730	0.000010038	0.000962489	0.000885490	0.965168319	0.000000121	0.000000054	0.965187654
0.000157594	2807.217323700	0.001667069	0.001465877	0.017240269	0.001394836	0.011269471	0.000013243	0.001465877	0.001348607	1.273328269	0.000000159	0.000000071	1.273353778
0.000429801	7656.047246400	0.004546551	0.003997846	0.047018916	0.003804099	0.030734921	0.000036116	0.003997846	0.003678018	3.472713461	0.000000435	0.000000195	3.472783031
0.000620525	11053.418212000	0.003046921	0.001744263	0.046199492	0.002549359	0.044373542	0.000052143	0.001744263	0.001604722	5.013730059	0.000000628	0.000000281	5.013830501
0.000293316	5224.830037200	0.002987321	0.002110737	0.035538494	0.002499492	0.020974888	0.000024647	0.002110737	0.001941878	2.369935427	0.000000297	0.000000133	2.369982905
0.000988582	17609.612347000	0.004841244	0.002527374	0.081424537	0.004050669	0.070693142	0.000083071	0.002527374	0.002325184	7.987560144	0.000001000	0.000000448	7.987720161
0.000960337	17106.480566000	0.004702923	0.002455163	0.079098122	0.003934935	0.068673338	0.000080697	0.002455163	0.002258750	7.759344139	0.000000972	0.000000436	7.759499585
0.000921228	16409.836561000	0.004511401	0.002355179	0.075876932	0.003774689	0.065876687	0.000077411	0.002355179	0.002166765	7.443352749	0.000000932	0.000000418	7.443501864
0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.000149318	2659.798430300	0.002792417	0.001203111	0.012484805	0.002336415	0.009604663	0.000012547	0.001203111	0.001106862	1.206460399	0.000000151	0.000000068	1.206484568
0.000196992	3509.021654600	0.002083836	0.001832346	0.021550336	0.001743545	0.014086839	0.000016553	0.001832346	0.001685758	1.591660336	0.000000199	0.000000089	1.591692223
0.000537251	9570.059058000	0.005683189	0.004997307	0.058773645	0.004755124	0.038418651	0.000045145	0.004997307	0.004597523	4.340891826	0.000000544	0.000000244	4.340978789
0.000827367	14737.890949000	0.004062562	0.002325685	0.061599323	0.003399145	0.059164722	0.000069524	0.002325685	0.002139630	6.684973412	0.000000837	0.000000375	6.685107335
0.000391087	6966.440049500	0.003983095	0.002814316	0.047384658	0.003332656	0.027966518	0.000032863	0.002814316	0.002589171	3.159913903	0.000000396	0.000000177	3.159977206
0.001318110	23479.483130000	0.006454992	0.003369832	0.108566050	0.005400892	0.094257523	0.000110761	0.003369832	0.003100245	10.650080191	0.000001334	0.000000598	10.650293548
0.001280449	22808.640755000	0.006270564	0.003273551	0.105464163	0.005246581	0.091564451	0.000107597	0.003273551	0.003011667	10.345792186	0.000001296	0.000000581	10.345999446
0.001228304	21879.782082000	0.006015201	0.003140239	0.101169242	0.005032919	0.087835582	0.000103215	0.003140239	0.002889020	9.924470332	0.000001243	0.000000557	9.924669152
0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.000179181	3191.758116300	0.003350900	0.001443733	0.014981766	0.002803698	0.011525595	0.000015057	0.001443733	0.001328235	1.447752478	0.000000181	0.000000081	1.447781482
0.000236391	4210.825985500	0.002500603	0.002198815	0.025860404	0.002092255	0.016904206	0.000019864	0.002198815	0.002022910	1.909992404	0.000000239	0.000000107	1.910030667
0.000644702	11484.070870000	0.006819827	0.005996769	0.070528373	0.005706149	0.046102381	0.000054174	0.005996769	0.005517027	5.209070192	0.000000652	0.000000292	5.209174546
0.001034209	18422.363687000	0.005078202	0.002907106	0.076999154	0.004248932	0.073955903	0.000086905	0.002907106	0.002674537	8.356216766	0.000001046	0.000000469	8.356384168
0.000488859	8708.050061900	0.004978869	0.003517895	0.059230823	0.004165820	0.034958147	0.000041079	0.003517895	0.003236463	3.949892379	0.000000495	0.000000222	3.949971508
0.001647637	29349.353912000	0.008068740	0.004212290	0.135707562	0.006751115	0.117821904	0.000138451	0.004212290	0.003875306	13.312600239	0.000001667	0.000000747	13.312866935
0.001600562	28510.800944000	0.007838205	0.004091938	0.131830203	0.006558226	0.114455564	0.000134496	0.004091938	0.003764583	12.932240232	0.000001620	0.000000726	12.932499308
0.001535380	27349.727602000	0.007519002	0.003925298	0.126461553	0.006291149	0.109794478	0.000129018	0.003925298	0.003611275	12.405587915	0.000001554	0.000000696	12.405836440
0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.000209045	3723.717802400	0.003909384	0.001684356	0.017478727	0.003270981	0.013446528	0.000017566	0.001684356	0.001549607	1.689044558	0.000000212	0.000000095	1.689078395
0.000275789	4912.630316400	0.002917370	0.002565284	0.030170471	0.002440964	0.019721574	0.000023175	0.002565284	0.002360062	2.228324471	0.000000279	0.000000125	2.228369112
0.000752152	13398.082681000	0.007956464	0.006996230	0.082283102	0.006657174	0.053786111	0.000063204	0.006996230	0.006436532	6.077248557	0.000000761	0.000000341	6.077370304
0.001241051	22106.836424000	0.006093842	0.003488527	0.092398985	0.005098718	0.088747083	0.000104286	0.003488527	0.003209445	10.027460119	0.000001256	0.000000563	10.027661002
0.000586631	10449.660074000	0.005974643	0.004221474	0.071076988	0.004998983	0.041949777	0.000049295	0.004221474	0.003883756	4.739870854	0.000000594	0.000000266	4.739965810
0.001977164	35219.224695000	0.009682488	0.005054747	0.162849075	0.008101338	0.141386285	0.000166142	0.005054747	0.004650368	15.975120287	0.000002001	0.000000897	15.975440322
0.001920674	34212.961132000	0.009405846	0.004910326	0.158196244	0.007869871	0.137346677	0.000161395	0.004910326	0.004517500	15.518688279	0.000001943	0.000000871	15.518999170
0.001842457	32819.673122000	0.009022802	0.004710358	0.151753863	0.007549378	0.131753373	0.000154822	0.004710358	0.004333529	14.886705498	0.000001864	0.000000836	14.887003728
0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.000268772	4787.637174500	0.005026350	0.002165600	0.022472650	0.004205547	0.017288393	0.000022585	0.002165600	0.001992352	2.171628717	0.000000272	0.000000122	2.171672222
0.000354586	6316.238978300	0.003750905	0.003298223	0.038790605	0.003138382	0.025356310	0.000029796	0.003298223	0.003034365	2.864988605	0.000000359	0.000000161	2.865046001
0.000967053	17226.106304000	0.010229740	0.008995153	0.105792560	0.008559223	0.069153571	0.000081262	0.008995153	0.008275541	7.813605287	0.000000979	0.000000439	7.813761820
0.001654735	29475.781899000	0.008125123	0.004651369	0.123198646	0.006798290	0.118329444	0.000139048	0.004651369	0.004279260	13.369946825	0.000001674	0.000000751	13.370214669
0.000782175	13932.880099000	0.007966190	0.005628632	0.094769317	0.006665311	0.055933036	0.000065726	0.005628632	0.005178341	6.319827806	0.000000791	0.000000355	6.319954413
0.002636219	46958.966260000	0.012909984	0.006739663	0.217132100	0.010801784	0.188515046	0.000221522	0.006739663	0.006200490	21.300160383	0.000002668	0.000001196	21.300587095
0.002560899	45617.281510000	0.012541127	0.006547101	0.210928326	0.010493161	0.183128902	0.000215193	0.006547101	0.006023333	20.691584372	0.000002591	0.000001162	20.691998893
0.002456609	43759.564163000	0.012030403	0.006280477	0.202338484	0.010065838	0.175671164	0.000206430	0.006280477	0.005778039	19.848940664	0.000002486	0.000001114	19.849338304
0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.000328499	5851.556546600	0.006143317	0.002646844	0.027466572	0.005140113	0.021130258	0.000027604	0.002646844	0.002435097	2.654212877	0.000000332	0.000000149	2.654266050
0.000433383	7719.847640100	0.004584439	0.004031161	0.047410740	0.003835800	0.030991045	0.000036417	0.004031161	0.003708668	3.501652740	0.000000439	0.000000197	3.501722890
0.001181953	21054.129928000	0.012503015	0.010994076	0.129302018	0.010461273	0.084521032	0.000099320	0.010994076	0.010114550	9.549962018	0.000001196	0.000000536	9.550153335

N2OLB	CO2ELB	TOGTON	PMTON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	CO2TONNE	CH4TONNE	N2OTONNE	CO2ETONNE
0.002068418	36844.727373000	0.010156404	0.005814212	0.153998308	0.008497863	0.147911806	0.000173810	0.005814212	0.005349075	16.712433531	0.000002093	0.000000938	16.712768336
0.001042900	18577.173465000	0.010621587	0.007504843	0.126359089	0.008887082	0.074577381	0.000087635	0.007504843	0.006904455	8.426437074	0.000001055	0.000000473	8.426605884
0.007213391	128492.116470000	0.036546480	0.019332578	0.659839544	0.030578440	0.515826885	0.000606143	0.019332578	0.017785972	58.282856432	0.000007299	0.000003272	58.284024030
0.007104756	126556.994230000	0.035996081	0.019041424	0.649902202	0.030117921	0.508058408	0.000597015	0.019041424	0.017518110	57.405102570	0.000007189	0.000003223	57.406252584
0.008292503	147714.330680000	0.042013775	0.022224700	0.758550480	0.035152925	0.592993758	0.000696822	0.022224700	0.020446724	67.001878127	0.000008391	0.000003761	67.003220397
0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.000388226	6915.475918700	0.007260284	0.003128089	0.032460494	0.006074679	0.024972123	0.000032623	0.003128089	0.002877842	3.136797036	0.000000393	0.000000176	3.136859877
0.000512180	9123.456301900	0.005417973	0.004764100	0.056030874	0.004533218	0.036625780	0.000043039	0.004764100	0.004382972	4.138316874	0.000000518	0.000000232	4.138399779
0.001396854	24882.153551000	0.014776291	0.012992999	0.152811476	0.012363323	0.099888492	0.000117378	0.012992999	0.011953559	11.286318748	0.000001413	0.000000634	11.286544851
0.002482102	44213.672848000	0.012187685	0.006977054	0.184797970	0.010197436	0.177494167	0.000208572	0.006977054	0.006418890	20.054920237	0.000002512	0.000001126	20.055322004
0.001251480	22292.608159000	0.012745904	0.009005811	0.151630907	0.010664498	0.089492857	0.000105162	0.009005811	0.008285346	10.111724489	0.000001266	0.000000568	10.111927061
0.008656070	154190.539760000	0.043855776	0.023199093	0.791807453	0.036694128	0.618992262	0.000727372	0.023199093	0.021343166	69.939427718	0.000008759	0.000003926	69.940828837
0.008525707	151868.393080000	0.043195298	0.022849709	0.779882642	0.036141506	0.609670089	0.000716418	0.022849709	0.021021733	68.886123084	0.000008627	0.000003867	68.887503101
0.009951004	177257.196820000	0.050416530	0.026669640	0.910260576	0.042183511	0.711592510	0.000836186	0.026669640	0.024536069	80.402253752	0.000010069	0.000004514	80.403864476
0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.000477817	8511.354976900	0.008935734	0.003849956	0.039951377	0.007476529	0.030734921	0.000040151	0.003849956	0.003541959	3.860673275	0.000000483	0.000000217	3.860750618
0.000630375	11228.869295000	0.006668275	0.005863507	0.068961076	0.005579346	0.045077884	0.000052971	0.005863507	0.005394427	5.093313076	0.000000638	0.000000286	5.093415112
0.001719205	30624.188985000	0.018186204	0.015991384	0.188075663	0.015216397	0.122939683	0.000144465	0.015991384	0.014712073	13.890853844	0.000001740	0.000000780	13.891132124
0.003102627	55267.091060000	0.015234606	0.008721317	0.230997462	0.012746795	0.221867708	0.000260715	0.008721317	0.008023612	25.068650297	0.000003139	0.000001407	25.069152505
0.001564350	27865.760198000	0.015932380	0.011257264	0.189538633	0.013330623	0.111866071	0.000131453	0.011257264	0.010356683	12.639655612	0.000001583	0.000000710	12.639908826
0.010820087	192738.174700000	0.054819720	0.028998867	0.989759316	0.045867660	0.773740327	0.000909215	0.028998867	0.026678957	87.424284648	0.000010949	0.000004908	87.426036046
0.010657134	189835.491350000	0.053994122	0.028562137	0.974853303	0.045176882	0.762087612	0.000895522	0.028562137	0.026277166	86.107653855	0.000010784	0.000004834	86.109378876
0.012438755	221571.496020000	0.063020662	0.033337050	1.137825720	0.052729388	0.889490637	0.001045232	0.033337050	0.030670086	100.502817190	0.000012586	0.000005642	100.504830590
0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.000567408	10107.234035000	0.010611184	0.004571822	0.047442260	0.008878378	0.036497718	0.000047679	0.004571822	0.004206076	4.584549515	0.000000574	0.000000257	4.584641358
0.000748570	13334.282287000	0.007918576	0.006962915	0.081891278	0.006625473	0.053529987	0.000062903	0.006962915	0.006405882	6.048309278	0.000000757	0.000000340	6.048430446
0.002041556	36366.224420000	0.021596117	0.018989768	0.223339849	0.018069471	0.145990873	0.000171553	0.018989768	0.017470587	16.495388940	0.000002066	0.000000926	16.495719397
0.003723153	66320.509272000	0.018281527	0.010465581	0.277196954	0.015296154	0.266241250	0.000312858	0.010465581	0.009628334	30.082380356	0.000003767	0.000001689	30.082983006
0.001877220	33438.912238000	0.019118856	0.013508717	0.227446360	0.015996747	0.134239286	0.000157743	0.013508717	0.012428019	15.167586734	0.000001900	0.000000852	15.167890591
0.012984104	231285.809640000	0.065783664	0.034798640	1.187711180	0.055041192	0.928488393	0.001091058	0.034798640	0.032014749	104.909141580	0.000013138	0.000005890	104.911243250
0.012788561	227802.589620000	0.064792947	0.034274564	1.169823963	0.054212258	0.914505134	0.001074627	0.034274564	0.031532599	103.329184630	0.000012940	0.000005801	103.331254650
0.014926506	265885.795220000	0.075624795	0.040004461	1.365390864	0.063275266	1.067388765	0.001254279	0.040004461	0.036804104	120.603380630	0.000015104	0.000006771	120.605796710
0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.000716726	12767.032465000	0.013403601	0.005774933	0.059927066	0.011214793	0.046102381	0.000060227	0.005774933	0.005312939	5.791009913	0.000000725	0.000000325	5.791125926
0.000945563	16843.303942000	0.010002412	0.008795261	0.103441614	0.008369018	0.067616825	0.000079456	0.008795261	0.008091640	7.639969614	0.000000957	0.000000429	7.640122668
0.002578807	45936.283478000	0.027279306	0.023987075	0.282113494	0.022824596	0.184409524	0.000216698	0.023987075	0.022068109	20.836280766	0.000002609	0.000001170	20.836698186
0.004757362	84742.872958000	0.023359729	0.013372686	0.354196108	0.019545085	0.340197153	0.000399763	0.013372686	0.012302872	38.438597121	0.000004814	0.000002158	38.439367174
0.002398670	42727.498971000	0.024429650	0.017261138	0.290625905	0.020440288	0.171527976	0.000201561	0.017261138	0.015880247	19.380805271	0.000002427	0.000001088	19.381193533
0.016590800	295531.867880000	0.084056904	0.044464929	1.517630952	0.070330412	1.186401835	0.001394130	0.044464929	0.040907734	134.050569790	0.000016788	0.000007526	134.053255270
0.016340939	291081.086740000	0.082790987	0.043795276	1.494775064	0.069271219	1.168534338	0.001373134	0.043795276	0.040291654	132.031735910	0.000016535	0.000007412	132.034380940
0.019072757	339742.960560000	0.096631682	0.051116811	1.744666104	0.080851729	1.363885644	0.001602690	0.051116811	0.047027466	154.104319690	0.000019299	0.000008651	154.107406910
0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.000866044	15426.830896000	0.016196018	0.006978044	0.072411871	0.013551208	0.055707044	0.000072774	0.006978044	0.006419801	6.997470312	0.000000876	0.000000393	6.997610494
0.001142555	20352.325597000	0.012086248	0.010627607	0.124991951	0.010112564	0.081703664	0.000096009	0.010627607	0.009777398	9.231629951	0.000001156	0.000000518	9.231814891
0.003116059	55506.342536000	0.032962495	0.028984383	0.340887138	0.027579720	0.222828175	0.000261843	0.028984383	0.026665632	25.177172592	0.000003153	0.000001413	25.177676974
0.005791571	103165.236640000	0.028437931	0.016279792	0.431195262	0.023794017	0.414153056	0.000486667	0.016279792	0.014977409	46.794813887	0.000005860	0.000002627	46.795751342
0.003204020	57073.205147000	0.032631875	0.023056544	0.388203201	0.027303090	0.229118287	0.000269235	0.023056544	0.021212021	25.887887234	0.000003242	0.000001453	25.888405855
0.022184800	395177.762220000	0.112398773	0.059457382	2.029337844	0.094044054	1.586426620	0.001864195	0.059457382	0.054700791	179.249041990	0.000022448	0.000010063	179.252632940
0.019508023	347496.350320000	0.098836947	0.052283365	1.784481723	0.082696873	1.395011343	0.001639265	0.052283365	0.048100696	157.621186830	0.000019740	0.000008849	157.624344510

N2OLB	CO2ELB	TOGTON	PMTON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	CO2TONNE	CH4TONNE	N2OTONNE	CO2ETONNE
0.038488802	685600.907390000	0.195002625	0.103153666	3.520734211	0.163158696	2.752319676	0.003234226	0.103153666	0.094901372	310.982341590	0.000038946	0.000017459	310.988571590
0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.001075089	19150.548698000	0.020105401	0.008662400	0.089890598	0.016822189	0.069153571	0.000090340	0.008662400	0.007969408	8.686514870	0.000001088	0.000000488	8.686688889
0.001418344	25264.955913000	0.015003618	0.013192892	0.155162422	0.012553528	0.101425238	0.000119184	0.013192892	0.012137460	11.459954421	0.000001435	0.000000643	11.460184002
0.003868211	68904.425217000	0.040918959	0.035980613	0.423170241	0.034236893	0.276614286	0.000325047	0.035980613	0.033102164	31.254421149	0.000003914	0.000001755	31.255047279
0.007239464	128956.545810000	0.035547413	0.020349740	0.538994078	0.029742521	0.517691319	0.000608334	0.020349740	0.018721761	58.493517359	0.000007325	0.000003284	58.494689178
0.004005026	71341.506433000	0.040789844	0.028820680	0.485254001	0.034128862	0.286397859	0.000336543	0.028820680	0.026515026	32.359859043	0.000004053	0.000001817	32.360507318
0.027730999	493972.202770000	0.140498467	0.074321727	2.536672304	0.117555067	1.983033275	0.002330244	0.074321727	0.068375989	224.061302490	0.000028060	0.000012579	224.065791180
0.024385029	434370.437900000	0.123546184	0.065354206	2.230602154	0.103371092	1.743764178	0.002049081	0.065354206	0.060125870	197.026483540	0.000024675	0.000011061	197.030430630
0.048111003	857001.134240000	0.243753281	0.128942082	4.400917764	0.203948370	3.440399595	0.004042782	0.128942082	0.118626716	388.727926990	0.000048682	0.000021823	388.735714490
0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.001313997	23406.226186000	0.024573268	0.010587378	0.109866287	0.020560453	0.084521032	0.000110416	0.010587378	0.009740388	10.616851507	0.000001330	0.000000596	10.617064198
0.001733531	30879.390560000	0.018337756	0.016124645	0.189642960	0.015343200	0.123964180	0.000145669	0.016124645	0.014834674	14.006610959	0.000001754	0.000000786	14.006891558
0.004727813	84216.519710000	0.050012061	0.043976305	0.517208072	0.041845092	0.338084127	0.000397280	0.043976305	0.040458201	38.199848071	0.000004784	0.000002145	38.200613340
0.008894198	158432.327700000	0.043672536	0.025001110	0.662192725	0.036540811	0.636020764	0.000747382	0.025001110	0.023001021	71.863464184	0.000009000	0.000004034	71.864903847
0.004920460	87648.136475000	0.050113237	0.035408264	0.596169202	0.041929745	0.351860227	0.000413468	0.035408264	0.032575603	39.756398253	0.000004979	0.000002232	39.757194705
0.034069514	606880.134830000	0.172612402	0.091309550	3.116483117	0.144424797	2.436298024	0.002862871	0.091309550	0.084004786	275.275314480	0.000034474	0.000015454	275.280829160
0.029958750	533655.109420000	0.151785311	0.080292310	2.740454075	0.126998770	2.142338848	0.002517443	0.080292310	0.073868925	242.061108350	0.000030315	0.000013589	242.065957640
0.059107803	1052887.107800000	0.299468317	0.158414558	5.406841824	0.250565141	4.226776645	0.004966846	0.158414558	0.145741393	477.580024580	0.000059810	0.000026811	477.589592090
0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.001612633	28725.823047000	0.030158102	0.012993600	0.134835897	0.025233284	0.103730357	0.000135510	0.012993600	0.011954112	13.029772305	0.000001632	0.000000731	13.030033334
0.002127516	37897.433870000	0.022505428	0.019789337	0.232743632	0.018830291	0.152137857	0.000178776	0.019789337	0.018206190	17.189931632	0.000002153	0.000000965	17.190276003
0.005802316	103356.637830000	0.061378439	0.053970920	0.634755361	0.051355340	0.414921429	0.000487570	0.053970920	0.049653246	46.881631724	0.000005871	0.000002632	46.882570918
0.010962617	195277.055080000	0.053828940	0.030815321	0.816191033	0.045038674	0.783932569	0.000921192	0.030815321	0.028350095	88.575897715	0.000011093	0.000004973	88.577672183
0.006064753	108031.424030000	0.061767478	0.043642744	0.734813202	0.051680849	0.433688186	0.000509623	0.043642744	0.040151325	49.002072265	0.000006137	0.000002751	49.003053939
0.041992656	748015.049910000	0.212754821	0.112544330	3.841246632	0.178011959	3.002878960	0.003528656	0.112544330	0.103540783	339.292829480	0.000042491	0.000019048	339.299626640
0.036925901	657760.948830000	0.187084221	0.098964941	3.377768977	0.156533368	2.640557184	0.003102895	0.098964941	0.091047745	298.354389360	0.000037364	0.000016750	298.360366390
0.072853804	1297744.574700000	0.369112111	0.195255153	6.664246900	0.308836104	5.209747958	0.006121927	0.195255153	0.179634741	588.645146580	0.000073719	0.000033046	588.656939090
0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.001970996	35109.339280000	0.036859902	0.015881067	0.164799430	0.030840680	0.126781548	0.000165623	0.015881067	0.014610581	15.925277261	0.000001994	0.000000894	15.925596297
0.002600297	46319.085841000	0.027506634	0.024186968	0.284464440	0.023014800	0.185946270	0.000218504	0.024186968	0.022252010	21.009916439	0.000002631	0.000001179	21.010337337
0.007091720	126324.779570000	0.075018092	0.065964458	0.775812108	0.062767638	0.507126190	0.000595919	0.065964458	0.060687301	57.299772107	0.000007176	0.000003217	57.300920011
0.013444719	239490.727930000	0.066016625	0.037792375	1.000989002	0.055236110	0.961426736	0.001129764	0.037792375	0.034768985	108.630817950	0.000013604	0.000006099	108.632994190
0.007437905	132491.369090000	0.075752567	0.053524120	0.901186003	0.063382173	0.531881738	0.000625009	0.053524120	0.049242191	60.096881080	0.000007526	0.000003374	60.098085019
0.051500427	917376.948010000	0.260925724	0.138026064	4.710962851	0.218316553	3.682776083	0.004327596	0.138026064	0.126983979	416.113847480	0.000052112	0.000023361	416.122183620
0.045286482	806687.956110000	0.229442912	0.121372097	4.142546858	0.191974885	3.238419188	0.003805437	0.121372097	0.111662329	365.906326580	0.000045824	0.000020542	365.913656890
0.089349005	1591573.535000000	0.452684665	0.239463867	8.173132990	0.378761259	6.389313533	0.007508024	0.239463867	0.220306758	721.923292970	0.000090410	0.000040529	721.937755490
0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.002448813	43620.694257000	0.045795636	0.019731022	0.204750807	0.038317209	0.157516468	0.000205774	0.019731022	0.018152540	19.785950537	0.000002478	0.000001111	19.786346915
0.003230672	57547.955135000	0.034174909	0.030050475	0.353425516	0.028594146	0.231024153	0.000271474	0.030050475	0.027646437	26.103229515	0.000003269	0.000001465	26.103752449
0.008810924	156948.968550000	0.093204296	0.081955841	0.963887771	0.077984035	0.630065873	0.000740385	0.081955841	0.075399374	71.190625951	0.000008916	0.000003997	71.192052135
0.016754188	298442.291720000	0.082266871	0.047095113	1.247386295	0.068832691	1.198085625	0.001407859	0.047095113	0.043327504	135.370711600	0.000016953	0.000007600	135.373423530
0.010559362	188093.881340000	0.061187785	0.032430924	1.012951887	0.051195819	0.755095982	0.000887306	0.032430924	0.029836450	85.317675379	0.000010685	0.000004790	85.319384575
0.071041041	1265453.835000000	0.359927790	0.190396775	6.498425777	0.301151582	5.080117969	0.005969600	0.190396775	0.175165033	573.998360470	0.000071885	0.000032224	574.009859560
0.068342537	1217385.398700000	0.346255884	0.183164528	6.251582189	0.289712298	4.887148996	0.005742844	0.183164528	0.168511366	552.194954540	0.000069154	0.000031000	552.206016830
0.129234858	2302060.114400000	0.654765418	0.346361764	11.821661426	0.547842226	9.241535826	0.010859644	0.346361764	0.318652823	1044.193549200	0.000130770	0.000058621	1044.214467900
0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.003016221	53727.928292000	0.056406820	0.024302844	0.252193067	0.047195586	0.194014187	0.000253454	0.024302844	0.022358617	24.370500051	0.000003052	0.000001368	24.370988273
0.003979243	70882.237423000	0.042093485	0.037013390	0.435316794	0.035219619	0.284554140	0.000334377	0.037013390	0.034052319	32.151538793	0.000004027	0.000001805	32.152182895

N2OLB	CO2ELB	TOGTON	PMTON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	CO2TONNE	CH4TONNE	N2OTONNE	CO2ETONNE
0.010852480	193315.192970000	0.114800414	0.100945609	1.187227620	0.096053506	0.776056746	0.000911937	0.100945609	0.092869961	87.686014890	0.000010981	0.000004923	87.687771532
0.020684182	368447.273730000	0.101564038	0.058142115	1.539983080	0.084978631	1.479118056	0.001738098	0.058142115	0.053490746	167.124335310	0.000020930	0.000009382	167.127683360
0.013036249	232214.668320000	0.075540475	0.040038178	1.250557885	0.063204715	0.932217262	0.001095440	0.040038178	0.036835124	105.330463430	0.000013191	0.000005913	105.332573550
0.087704989	1562288.685200000	0.444355296	0.235057747	8.022747873	0.371792077	6.271750579	0.007369877	0.235057747	0.216253128	708.639951200	0.000088747	0.000039783	708.654147600
0.084373503	1502944.936600000	0.427476400	0.226129047	7.718002702	0.357669504	6.033517278	0.007089931	0.226129047	0.208038723	681.722166100	0.000085376	0.000038272	681.735823250
0.159549208	2842049.523900000	0.808352368	0.427607116	14.594643736	0.676348427	11.409303489	0.013406968	0.427607116	0.393398547	1289.127838500	0.000161444	0.000072372	1289.153664000
0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.003732946	66494.960757000	0.069810421	0.030077778	0.312120133	0.058410379	0.240116567	0.000313681	0.030077778	0.027671556	30.161509964	0.000003777	0.000001693	30.162114199
0.004924805	87725.541365000	0.052095897	0.045808651	0.538758408	0.043588637	0.352170966	0.000413833	0.045808651	0.042143959	39.791508407	0.000004983	0.000002234	39.792305563
0.013431287	239251.476450000	0.142079720	0.124932685	1.469341114	0.118878102	0.960466270	0.001128635	0.124932685	0.114938070	108.522295660	0.000013591	0.000006092	108.524469720
0.025648386	456874.619430000	0.125939407	0.072096223	1.909579020	0.105373502	1.834106389	0.002155242	0.072096223	0.066328525	207.234175790	0.000025953	0.000011634	207.238327370
0.016164949	287946.188710000	0.093670189	0.049647341	1.550691778	0.078373847	1.155949405	0.001358346	0.049647341	0.045675554	130.609774650	0.000016357	0.000007332	130.612391200
0.108754186	1937237.969600000	0.551000568	0.291471607	9.948207363	0.461022175	7.776970718	0.009138647	0.291471607	0.268153878	878.713539480	0.000110046	0.000049331	878.731143020
0.104623144	1863651.721400000	0.530070736	0.280400018	9.570323351	0.443510185	7.481561425	0.008791514	0.280400018	0.257968017	845.335485960	0.000105866	0.000047457	845.352420830
0.197841018	3524141.409700000	1.002356937	0.530232824	18.097358233	0.838672049	14.147536326	0.016624640	0.530232824	0.487814198	1598.518519800	0.000200191	0.000089741	1598.550543400
0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.004598990	81921.791653000	0.086006438	0.037055822	0.384532004	0.071961587	0.295823611	0.000386454	0.037055822	0.034091356	37.158980276	0.000004654	0.000002086	37.159724694
0.006067360	108077.866960000	0.064182145	0.056436258	0.663750359	0.053701201	0.433874630	0.000509842	0.056436258	0.051921357	49.023138358	0.000006139	0.000002752	49.024120454
0.016547346	294757.818990000	0.175042215	0.153917068	1.810228252	0.146457821	1.183294444	0.001390478	0.153917068	0.141603702	133.699468250	0.000016744	0.000007506	133.702146690
0.031646799	563724.328810000	0.155392979	0.088957436	2.356174113	0.130017305	2.263050625	0.002659290	0.088957436	0.081840841	255.700233030	0.000032023	0.000014355	255.705355550
0.019945462	355288.442530000	0.115576926	0.061258413	1.913353565	0.096703214	1.426292411	0.001676023	0.061258413	0.056357740	161.155609050	0.000020182	0.000009047	161.158837530
0.134188633	2390301.688300000	0.679863604	0.359638353	12.274804246	0.568841877	9.595778385	0.011275911	0.359638353	0.330867285	1084.219125300	0.000135782	0.000060868	1084.240845800
0.129091460	2299505.753000000	0.654038892	0.345977441	11.808544134	0.547234341	9.231281436	0.010847594	0.345977441	0.318299246	1043.034914100	0.000130625	0.000058556	1043.055809600
0.244110288	4348335.771600000	1.236779124	0.654238887	22.329804917	1.034813093	17.456234338	0.020512661	0.654238887	0.601899776	1972.365593000	0.000247010	0.000110728	1972.405106000
0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.005703942	101604.300040000	0.106670323	0.045958844	0.476919563	0.089251059	0.366898115	0.000479304	0.045958844	0.042282137	46.086787226	0.000005772	0.000002587	46.087710497
0.007525103	134044.627210000	0.079602531	0.069995619	0.823222848	0.066603438	0.538117235	0.000632337	0.069995619	0.064395969	60.801424846	0.000007614	0.000003413	60.802642900
0.020523007	365576.256010000	0.217097812	0.190897142	2.245153222	0.181645739	1.467592460	0.001724554	0.190897142	0.175625371	165.822067760	0.000020767	0.000009309	165.825389730
0.039299946	700049.820090000	0.192971673	0.110470019	2.925967852	0.161459399	2.810324306	0.003302386	0.110470019	0.101632417	317.536237090	0.000039767	0.000017826	317.542598390
0.024768874	441207.869800000	0.143526902	0.076072538	2.376059982	0.120088959	1.771212798	0.002081336	0.076072538	0.069986735	200.127880520	0.000025063	0.000011235	200.131889740
0.166639479	2968348.501900000	0.844275063	0.446609720	15.243220959	0.706404945	11.916326100	0.014002765	0.446609720	0.410880942	1346.415907300	0.000168619	0.000075588	1346.442880400
0.160309656	2855595.379600000	0.812205160	0.429645189	14.664205134	0.679572057	11.463682829	0.013470868	0.429645189	0.395273574	1295.272115600	0.000162214	0.000072716	1295.298064200
0.303143495	5399894.095400000	1.535869500	0.812453520	27.729823099	1.285062011	21.677676629	0.025473239	0.812453520	0.747457238	2449.342893200	0.000306744	0.000137506	2449.391961700
0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.007017939	125010.526220000	0.131243591	0.056546222	0.586785850	0.109811512	0.451419147	0.000589720	0.056546222	0.052022524	56.703638733	0.000007101	0.000003183	56.704774695
0.009258634	164924.017770000	0.097940287	0.086120264	1.012865808	0.081946638	0.662081415	0.000778006	0.086120264	0.079230643	74.808035806	0.000009369	0.000004200	74.809534458
0.025250820	449792.775720000	0.267109873	0.234873447	2.762361294	0.223490831	1.805676587	0.002121834	0.234873447	0.216083572	204.021915830	0.000025551	0.000011454	204.026003070
0.048400987	862166.620530000	0.237659850	0.136052550	3.603560408	0.198849996	3.461136250	0.004067149	0.136052550	0.125168346	391.070944630	0.000048976	0.000021955	391.078779070
0.030504824	543382.323860000	0.176764711	0.093689337	2.926305452	0.147899034	2.181388393	0.002563329	0.093689337	0.086194190	246.473284430	0.000030867	0.000013837	246.478222100
0.230650360	4108574.126600000	1.168584712	0.618164996	21.098568176	0.977754829	16.493720015	0.019381619	0.618164996	0.568711796	1863.611889500	0.000233390	0.000104623	1863.649223800
0.227430407	4051217.103500000	1.152270892	0.609535213	20.804025344	0.964105055	16.263462351	0.019111045	0.609535213	0.560772396	1837.595265000	0.000230132	0.000103162	1837.632078100
0.385377604	6864730.024800000	1.952506713	1.032848788	35.252126402	1.633662367	27.558206696	0.032383396	1.032848788	0.950220885	3113.779160000	0.000389955	0.000174807	3113.841539300
0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.008690299	154800.268640000	0.162518659	0.070021067	0.726615669	0.135979362	0.558991369	0.000730248	0.070021067	0.064419381	70.215995197	0.000008794	0.000003942	70.217401856
0.011464947	204225.060300000	0.121279249	0.106642540	1.254229575	0.101474348	0.819854008	0.000963403	0.106642540	0.098111137	92.634631572	0.000011601	0.000005201	92.636487351
0.031268037	556977.437170000	0.330761588	0.290843290	3.420626113	0.276748221	2.235965476	0.002627463	0.290843290	0.267575827	252.639904290	0.000031639	0.000014183	252.644965500
0.059984129	1068497.093800000	0.294535711	0.168612134	4.465950933	0.246438029	4.289442361	0.005040484	0.168612134	0.155123163	484.660572400	0.000060697	0.000027209	484.670281760
0.037805123	673422.538120000	0.219067377	0.116110717	3.626617868	0.183293674	2.703430060	0.003176776	0.116110717	0.106821859	305.458343950	0.000038254	0.000017148	305.464463290
0.285848737	5091822.635500000	1.448246011	0.766101918	26.147798167	1.211747438	20.440935061	0.024019955	0.766101918	0.704813765	2309.604478400	0.000289244	0.000129661	2309.650747400

N2OLB	CO2ELB	TOGTON	PMTON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	CO2TONNE	CH4TONNE	N2OTONNE	CO2ETONNE
0.281858197	5020739.145300000	1.428028029	0.755406888	25.782766452	1.194831052	20.155572999	0.023684629	0.755406888	0.694974337	2277.361653200	0.000285206	0.000127851	2277.407276300
0.477604723	8507571.398300000	2.419773277	1.280026276	43.688532721	2.024624301	34.153333085	0.040133268	1.280026276	1.177624174	3858.957078600	0.000483277	0.000216642	3859.034386300
0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.010750885	191505.486980000	0.201054011	0.086624000	0.898905983	0.168221891	0.691535714	0.000903400	0.086624000	0.079694080	86.865148698	0.000010879	0.000004877	86.866888894
0.014183439	252649.559130000	0.150036184	0.131928915	1.551624216	0.125535275	1.014252381	0.001191839	0.131928915	0.121374602	114.599544210	0.000014352	0.000006434	114.601840020
0.038682107	689044.252170000	0.409189593	0.359806132	4.231702407	0.342368933	2.766142857	0.003250469	0.359806132	0.331021641	312.544211490	0.000039142	0.000017546	312.550472790
0.074256215	1322725.712700000	0.364614897	0.208730194	5.528539258	0.305073285	5.310033819	0.006239772	0.208730194	0.192031778	599.976363770	0.000075138	0.000033683	599.988383280
0.046800135	833650.659260000	0.271190305	0.143737059	4.489502809	0.226904928	3.346659970	0.003932629	0.143737059	0.132238095	378.136363720	0.000047356	0.000021229	378.143939040
0.353861023	6303325.262500000	1.792828683	0.948381340	32.369170835	1.500059759	25.304467886	0.029735048	0.948381340	0.872510833	2859.131061200	0.000358064	0.000160511	2859.188339100
0.348921009	6215328.804100000	1.767800215	0.935141630	31.917286745	1.479118440	24.951209334	0.029319937	0.935141630	0.860330299	2819.216667300	0.000353065	0.000158271	2819.273145500
0.591241709	10531786.662000000	2.995512436	1.584584252	54.083390506	2.506345255	42.279470957	0.049682218	1.584584252	1.457817512	4777.122728300	0.000598264	0.000268187	4777.218429900
0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.013289289	236722.060290000	0.248525097	0.107076889	1.111147673	0.207940949	0.854814980	0.001116703	0.107076889	0.098510738	107.374975470	0.000013447	0.000006028	107.377126550
0.017532307	312302.927260000	0.185461394	0.163078798	1.917979934	0.155175549	1.253728638	0.001473245	0.163078798	0.150032494	141.657769930	0.000017741	0.000007953	141.660607800
0.047815383	851735.256160000	0.505803803	0.444760358	5.230854365	0.423206042	3.419259921	0.004017941	0.444760358	0.409179529	386.339372540	0.000048383	0.000021689	386.347112190
0.091837770	1635905.895400000	0.450944330	0.258150991	6.837524876	0.377305121	6.567284167	0.007717155	0.258150991	0.237498912	742.032048780	0.000092929	0.000041658	742.046914140
0.057880947	1031033.127300000	0.335399708	0.177769511	5.552477011	0.280628936	4.139044643	0.004863753	0.177769511	0.163547950	467.667257630	0.000058568	0.000026255	467.676626560
0.437644274	7795756.035000000	2.217314583	1.172928454	40.033180643	1.855227111	31.295776438	0.036775380	1.172928454	1.079094178	3536.084098000	0.000442842	0.000198515	3536.154937500
0.431534618	7686924.760400000	2.186360154	1.156553993	39.474304498	1.829327541	30.858877282	0.036261984	1.156553993	1.064029674	3486.719220800	0.000436660	0.000195744	3486.789071300
0.731229301	13025385.175000000	3.704756327	1.959764367	66.888650096	3.099769619	52.289930655	0.061445418	1.959764367	1.802983218	5908.196354800	0.000739914	0.000331686	5908.314715500
0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.016424964	292577.827330000	0.307165851	0.132342222	1.373328584	0.257005667	1.056512897	0.001380195	0.132342222	0.121754844	132.710643840	0.000016620	0.000007450	132.713302480
0.021669143	385992.382000000	0.229221948	0.201558065	2.370536997	0.191790004	1.549552249	0.001820865	0.201558065	0.185433420	175.082636990	0.000021927	0.000009829	175.086144480
0.059097664	1052706.496400000	0.625150767	0.549703813	6.465100900	0.523063647	4.226051587	0.004965994	0.549703813	0.505727508	477.498100890	0.000059800	0.000026807	477.507666760
0.113556161	2022775.532800000	0.557586570	0.319200212	8.454507111	0.466532683	8.120358125	0.009542158	0.319200212	0.293664195	917.512600860	0.000114905	0.000051509	917.530981670
0.071569009	1274858.529100000	0.414717207	0.219809598	6.865562791	0.346993887	5.117872768	0.006013965	0.219809598	0.202224830	578.264244240	0.000072419	0.000032464	578.275828780
0.541141230	9639346.989200000	2.741679518	1.450310183	49.500486876	2.293963253	38.696804650	0.045472260	1.450310183	1.334285368	4372.320202300	0.000547568	0.000245462	4372.407794300
0.533586724	9504778.588900000	2.703404785	1.430063384	48.809444076	2.261938784	38.156584747	0.044837453	1.430063384	1.315658313	4311.281198700	0.000539924	0.000242035	4311.367567900
0.904155149	16105712.751000000	4.580881134	2.423222157	82.706911943	3.832823245	64.655792634	0.075976429	2.423222157	2.229364384	7305.404952200	0.000914894	0.000410125	7305.551303600

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR	STARTMO	STARTDAY
IPK_4AB0FNRG	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13
IPK_4AB0FNRG	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015	2015	1	13
IPK_4AB0FNRG	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015	2015	1	13
IPK_4AB0FNRG	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015	2015	1	13
IPK_4AB0FNRG	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	3.00	7	01/15/2015	2015	2015	1	13
IPK_4AB0FNRH	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	3.00	7	01/15/2015	2015	2015	1	13
IPK_4AB0FNRH	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	3.00	7	01/15/2015	2015	2015	1	13
IPK_4AB0FNRH	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	3.00	7	01/15/2015	2015	2015	1	13
IPK_4AB0FNRH	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	3.00	7	01/15/2015	2015	2015	1	13
IPK_4AB0FNRQ	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13
IPK_4AB0FNRQ	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015	2015	1	13
IPK_4AB0FNRQ	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015	2015	1	13
IPK_4AB0FNRQ	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015	2015	1	13
IPK_4AB0FNRR	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015	2015	1	13
IPK_4AB0FNRR	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015	2015	1	13
IPK_4AB0FNRR	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015	2015	1	13
IPK_4AB0FNRR	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015	2015	1	13
IPK_4AB0FNRS	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015	2015	1	13
IPK_4AB0FNS1	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13
IPK_4AB0FNS1	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015	2015	1	13
IPK_4AB0FNS1	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015	2015	1	13
IPK_4AB0FNS1	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015	2015	1	13
IPK_4AB0FNS1	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015	2015	1	13
IPK_4AB0FNS2	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015	2015	1	13
IPK_4AB0FNS2	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015	2015	1	13
IPK_4AB0FNS2	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015	2015	1	13
IPK_4AB0FNS2	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015	2015	1	13

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR	STARTMO	STARTDAY
IPK_4AB0FNSB	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13
IPK_4AB0FNSB	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	7.00	7	01/19/2015	2015	2015	1	13
IPK_4AB0FNSB	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	7.00	7	01/19/2015	2015	2015	1	13
IPK_4AB0FNSC	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	7.00	7	01/19/2015	2015	2015	1	13
IPK_4AB0FNSC	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015	2015	1	13
IPK_4AB0FNSC	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015	2015	1	13
IPK_4AB0FNSC	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015	2015	1	13
IPK_4AB0FNSC	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015	2015	1	13
IPK_4AB0FNSC	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015	2015	1	13
IPK_4AB0FNSL	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13
IPK_4AB0FNSM	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	9.00	7	01/21/2015	2015	2015	1	13
IPK_4AB0FNSM	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	9.00	7	01/21/2015	2015	2015	1	13
IPK_4AB0FNSM	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	9.00	7	01/21/2015	2015	2015	1	13
IPK_4AB0FNSM	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	8.00	7	01/20/2015	2015	2015	1	13
IPK_4AB0FNSM	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	8.00	7	01/20/2015	2015	2015	1	13
IPK_4AB0FNSM	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	8.00	7	01/20/2015	2015	2015	1	13
IPK_4AB0FNSN	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	8.00	7	01/20/2015	2015	2015	1	13
IPK_4AB0FNSN	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	8.00	7	01/20/2015	2015	2015	1	13
IPK_4AB0FNSW	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13
IPK_4AB0FNSW	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	11.00	7	01/23/2015	2015	2015	1	13
IPK_4AB0FNSW	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	11.00	7	01/23/2015	2015	2015	1	13
IPK_4AB0FNSW	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	11.00	7	01/23/2015	2015	2015	1	13
IPK_4AB0FNSX	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	10.00	7	01/22/2015	2015	2015	1	13
IPK_4AB0FNSX	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	10.00	7	01/22/2015	2015	2015	1	13
IPK_4AB0FNSX	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	10.00	7	01/22/2015	2015	2015	1	13
IPK_4AB0FNSX	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	10.00	7	01/22/2015	2015	2015	1	13
IPK_4AB0FNSX	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	10.00	7	01/22/2015	2015	2015	1	13

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR	STARTMO	STARTDAY
IPK_4AB0FNT6	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13
IPK_4AB0FNT6	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	13.00	7	01/25/2015	2015	2015	1	13
IPK_4AB0FNT6	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	13.00	7	01/25/2015	2015	2015	1	13
IPK_4AB0FNT7	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	13.00	7	01/25/2015	2015	2015	1	13
IPK_4AB0FNT7	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	12.00	7	01/24/2015	2015	2015	1	13
IPK_4AB0FNT7	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	12.00	7	01/24/2015	2015	2015	1	13
IPK_4AB0FNT7	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	12.00	7	01/24/2015	2015	2015	1	13
IPK_4AB0FNT7	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	12.00	7	01/24/2015	2015	2015	1	13
IPK_4AB0FNT8	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	12.00	7	01/24/2015	2015	2015	1	13
IPK_4AB0FNTG	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13
IPK_4AB0FNTG	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	16.00	7	01/28/2015	2015	2015	1	13
IPK_4AB0FNTH	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	16.00	7	01/28/2015	2015	2015	1	13
IPK_4AB0FNTH	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	16.00	7	01/28/2015	2015	2015	1	13
IPK_4AB0FNTH	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	15.00	7	01/27/2015	2015	2015	1	13
IPK_4AB0FNTI	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	15.00	7	01/27/2015	2015	2015	1	13
IPK_4AB0FNTI	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	15.00	7	01/27/2015	2015	2015	1	13
IPK_4AB0FNTI	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	15.00	7	01/27/2015	2015	2015	1	13
IPK_4AB0FNTI	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	15.00	7	01/27/2015	2015	2015	1	13
IPK_4AB0FNTR	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13
IPK_4AB0FNTR	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	19.00	7	01/31/2015	2015	2015	1	13
IPK_4AB0FNTR	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	19.00	7	01/31/2015	2015	2015	1	13
IPK_4AB0FNTR	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	19.00	7	01/31/2015	2015	2015	1	13
IPK_4AB0FNTS	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	18.00	7	01/30/2015	2015	2015	1	13
IPK_4AB0FNTS	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	18.00	7	01/30/2015	2015	2015	1	13
IPK_4AB0FNTS	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	18.00	7	01/30/2015	2015	2015	1	13
IPK_4AB0FNTS	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	18.00	7	01/30/2015	2015	2015	1	13
IPK_4AB0FNTS	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	18.00	7	01/30/2015	2015	2015	1	13

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR	STARTMO	STARTDAY
IPK_4AB0FNU1	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13
IPK_4AB0FNU1	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	24.00	7	02/05/2015	2015	2015	1	13
IPK_4AB0FNU1	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	24.00	7	02/05/2015	2015	2015	1	13
IPK_4AB0FNU2	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	24.00	7	02/05/2015	2015	2015	1	13
IPK_4AB0FNU2	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	23.00	7	02/04/2015	2015	2015	1	13
IPK_4AB0FNU2	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	23.00	7	02/04/2015	2015	2015	1	13
IPK_4AB0FNU2	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	23.00	7	02/04/2015	2015	2015	1	13
IPK_4AB0FNU2	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	23.00	7	02/04/2015	2015	2015	1	13
IPK_4AB0FNU2	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	23.00	7	02/04/2015	2015	2015	1	13
IPK_4AB0FNUB	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13
IPK_4AB0FNUB	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	29.00	7	02/10/2015	2015	2015	1	13
IPK_4AB0FNUB	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	29.00	7	02/10/2015	2015	2015	1	13
IPK_4AB0FNUC	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	29.00	7	02/10/2015	2015	2015	1	13
IPK_4AB0FNUC	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	28.00	7	02/09/2015	2015	2015	1	13
IPK_4AB0FNUC	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	28.00	7	02/09/2015	2015	2015	1	13
IPK_4AB0FNUC	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	28.00	7	02/09/2015	2015	2015	1	13
IPK_4AB0FNUC	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	28.00	7	02/09/2015	2015	2015	1	13
IPK_4AB0FNUD	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	28.00	7	02/09/2015	2015	2015	1	13
IPK_4AB0FNUL	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13
IPK_4AB0FNUL	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	36.00	7	02/17/2015	2015	2015	1	13
IPK_4AB0FNUL	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	36.00	7	02/17/2015	2015	2015	1	13
IPK_4AB0FNUM	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	36.00	7	02/17/2015	2015	2015	1	13
IPK_4AB0FNUM	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	35.00	7	02/16/2015	2015	2015	1	13
IPK_4AB0FNUM	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	35.00	7	02/16/2015	2015	2015	1	13
IPK_4AB0FNUM	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	35.00	7	02/16/2015	2015	2015	1	13
IPK_4AB0FNUN	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	35.00	7	02/16/2015	2015	2015	1	13
IPK_4AB0FNUN	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	35.00	7	02/16/2015	2015	2015	1	13

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR	STARTMO	STARTDAY
IPK_4AB0FNUV	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13
IPK_4AB0FNUV	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	44.00	7	02/25/2015	2015	2015	1	13
IPK_4AB0FNUV	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	44.00	7	02/25/2015	2015	2015	1	13
IPK_4AB0FNUW	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	44.00	7	02/25/2015	2015	2015	1	13
IPK_4AB0FNUW	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	43.00	7	02/24/2015	2015	2015	1	13
IPK_4AB0FNUW	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	43.00	7	02/24/2015	2015	2015	1	13
IPK_4AB0FNUW	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	43.00	7	02/24/2015	2015	2015	1	13
IPK_4AB0FNUX	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	43.00	7	02/24/2015	2015	2015	1	13
IPK_4AB0FNUX	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	43.00	7	02/24/2015	2015	2015	1	13
IPK_4AB0FNV5	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13
IPK_4AB0FNV5	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	54.00	7	03/07/2015	2015	2015	1	13
IPK_4AB0FNV6	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	54.00	7	03/07/2015	2015	2015	1	13
IPK_4AB0FNV6	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	54.00	7	03/07/2015	2015	2015	1	13
IPK_4AB0FNV6	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	53.00	7	03/06/2015	2015	2015	1	13
IPK_4AB0FNV6	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	53.00	7	03/06/2015	2015	2015	1	13
IPK_4AB0FNV7	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	53.00	7	03/06/2015	2015	2015	1	13
IPK_4AB0FNV7	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	53.00	7	03/06/2015	2015	2015	1	13
IPK_4AB0FNV7	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	53.00	7	03/06/2015	2015	2015	1	13
IPK_4AB0FNVF	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13
IPK_4AB0FNVF	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	66.00	7	03/19/2015	2015	2015	1	13
IPK_4AB0FNVF	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	66.00	7	03/19/2015	2015	2015	1	13
IPK_4AB0FNVG	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	66.00	7	03/19/2015	2015	2015	1	13
IPK_4AB0FNVG	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	65.00	7	03/18/2015	2015	2015	1	13
IPK_4AB0FNVG	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	65.00	7	03/18/2015	2015	2015	1	13
IPK_4AB0FNVH	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	65.00	7	03/18/2015	2015	2015	1	13

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR	STARTMO	STARTDAY
IPK_4AB0FNVH	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	65.00	7	03/18/2015	2015	2015	1	13
IPK_4AB0FNVH	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	65.00	7	03/18/2015	2015	2015	1	13
IPK_4AB0FNVP	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13
IPK_4AB0FNVP	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	82.00	7	04/04/2015	2015	2015	1	13
IPK_4AB0FNVP	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	82.00	7	04/04/2015	2015	2015	1	13
IPK_4AB0FNVP	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	82.00	7	04/04/2015	2015	2015	1	13
IPK_4AB0FNVQ	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	81.00	7	04/03/2015	2015	2015	1	13
IPK_4AB0FNVQ	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	81.00	7	04/03/2015	2015	2015	1	13
IPK_4AB0FNVQ	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	81.00	7	04/03/2015	2015	2015	1	13
IPK_4AB0FNVQ	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	81.00	7	04/03/2015	2015	2015	1	13
IPK_4AB0FNVR	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	81.00	7	04/03/2015	2015	2015	1	13
IPK_4AB0FNVY	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13
IPK_4AB0FNVZ	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	101.00	7	04/23/2015	2015	2015	1	13
IPK_4AB0FNVZ	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	101.00	7	04/23/2015	2015	2015	1	13
IPK_4AB0FNVZ	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	101.00	7	04/23/2015	2015	2015	1	13
IPK_4AB0FNW0	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	100.00	7	04/22/2015	2015	2015	1	13
IPK_4AB0FNW0	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	100.00	7	04/22/2015	2015	2015	1	13
IPK_4AB0FNW0	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	100.00	7	04/22/2015	2015	2015	1	13
IPK_4AB0FNW1	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	100.00	7	04/22/2015	2015	2015	1	13
IPK_4AB0FNW1	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	100.00	7	04/22/2015	2015	2015	1	13
IPK_4AB0FNW8	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13
IPK_4AB0FNW8	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	125.00	7	05/17/2015	2015	2015	1	13
IPK_4AB0FNW8	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	125.00	7	05/17/2015	2015	2015	1	13
IPK_4AB0FNW9	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	125.00	7	05/17/2015	2015	2015	1	13
IPK_4AB0FNW9	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	124.00	7	05/16/2015	2015	2015	1	13

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR	STARTMO	STARTDAY
IPK_4AB0FNW9	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	124.00	7	05/16/2015	2015	2015	1	13
IPK_4AB0FNWA	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	124.00	7	05/16/2015	2015	2015	1	13
IPK_4AB0FNWA	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	124.00	7	05/16/2015	2015	2015	1	13
IPK_4AB0FNWA	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	124.00	7	05/16/2015	2015	2015	1	13
IPK_4AB0FNWH	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13
IPK_4AB0FNWH	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	154.00	7	06/15/2015	2015	2015	1	13
IPK_4AB0FNWH	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	154.00	7	06/15/2015	2015	2015	1	13
IPK_4AB0FNWI	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	154.00	7	06/15/2015	2015	2015	1	13
IPK_4AB0FNWI	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	153.00	7	06/14/2015	2015	2015	1	13
IPK_4AB0FNWI	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	153.00	7	06/14/2015	2015	2015	1	13
IPK_4AB0FNWJ	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	153.00	7	06/14/2015	2015	2015	1	13
IPK_4AB0FNWJ	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	153.00	7	06/14/2015	2015	2015	1	13
IPK_4AB0FNWJ	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	153.00	7	06/14/2015	2015	2015	1	13
IPK_4AB0FNWQ	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13
IPK_4AB0FNWQ	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	191.00	7	07/22/2015	2015	2015	1	13
IPK_4AB0FNWR	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	191.00	7	07/22/2015	2015	2015	1	13
IPK_4AB0FNWR	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	191.00	7	07/22/2015	2015	2015	1	13
IPK_4AB0FNWR	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	190.00	7	07/21/2015	2015	2015	1	13
IPK_4AB0FNWR	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	190.00	7	07/21/2015	2015	2015	1	13
IPK_4AB0FNWS	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	190.00	7	07/21/2015	2015	2015	1	13
IPK_4AB0FNWS	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	190.00	7	07/21/2015	2015	2015	1	13
IPK_4AB0FNWS	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	190.00	7	07/21/2015	2015	2015	1	13
IPK_4AB0FNWY	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13
IPK_4AB0FNWZ	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	235.00	7	09/04/2015	2015	2015	1	13
IPK_4AB0FNWZ	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	235.00	7	09/04/2015	2015	2015	1	13

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR	STARTMO	STARTDAY
IPK_4AB0FNX0	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	235.00	7	09/04/2015	2015	2015	1	13
IPK_4AB0FNX0	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	234.00	7	09/03/2015	2015	2015	1	13
IPK_4AB0FNX0	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	234.00	7	09/03/2015	2015	2015	1	13
IPK_4AB0FNX1	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	234.00	7	09/03/2015	2015	2015	1	13
IPK_4AB0FNX1	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	234.00	7	09/03/2015	2015	2015	1	13
IPK_4AB0FNX1	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	234.00	7	09/03/2015	2015	2015	1	13
IPK_4AB0FNX7	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13
IPK_4AB0FNX7	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	291.00	7	10/30/2015	2015	2015	1	13
IPK_4AB0FNX7	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	291.00	7	10/30/2015	2015	2015	1	13
IPK_4AB0FNX7	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	291.00	7	10/30/2015	2015	2015	1	13
IPK_4AB0FNX8	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	290.00	7	10/29/2015	2015	2015	1	13
IPK_4AB0FNX8	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	290.00	7	10/29/2015	2015	2015	1	13
IPK_4AB0FNX9	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	290.00	7	10/29/2015	2015	2015	1	13
IPK_4AB0FNX9	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	290.00	7	10/29/2015	2015	2015	1	13
IPK_4AB0FNX9	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	290.00	7	10/29/2015	2015	2015	1	13
IPK_4AB0FNXE	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13
IPK_4AB0FNXE	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	360.00	7	01/07/2016	2015	2015	1	13
IPK_4AB0FNXF	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	360.00	7	01/07/2016	2015	2015	1	13
IPK_4AB0FNXF	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	360.00	7	01/07/2016	2015	2015	1	13
IPK_4AB0FNXG	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	359.00	7	01/06/2016	2015	2015	1	13
IPK_4AB0FNXG	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	359.00	7	01/06/2016	2015	2015	1	13
IPK_4AB0FNXH	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	359.00	7	01/06/2016	2015	2015	1	13
IPK_4AB0FNXH	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	359.00	7	01/06/2016	2015	2015	1	13
IPK_4AB0FNXH	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	359.00	7	01/06/2016	2015	2015	1	13
IPK_4AB0FNXQ	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR	STARTMO	STARTDAY
IPK_4AB0FNXR	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	445.00	7	04/01/2016	2015	2015	1	13
IPK_4AB0FNXR	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	445.00	7	04/01/2016	2015	2015	1	13
IPK_4AB0FNXR	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	445.00	7	04/01/2016	2015	2015	1	13
IPK_4AB0FNXS	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	444.00	7	03/31/2016	2015	2015	1	13
IPK_4AB0FNXS	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	444.00	7	03/31/2016	2015	2015	1	13
IPK_4AB0FNXT	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	444.00	7	03/31/2016	2015	2015	1	13
IPK_4AB0FNXT	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	444.00	7	03/31/2016	2015	2015	1	13
IPK_4AB0FNXU	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	444.00	7	03/31/2016	2015	2015	1	13
IPK_4AB0FNY1	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13
IPK_4AB0FNY2	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	550.00	7	07/15/2016	2015	2015	1	13
IPK_4AB0FNY2	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	550.00	7	07/15/2016	2015	2015	1	13
IPK_4AB0FNY3	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	550.00	7	07/15/2016	2015	2015	1	13
IPK_4AB0FNY3	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	549.00	7	07/14/2016	2015	2015	1	13
IPK_4AB0FNY4	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	549.00	7	07/14/2016	2015	2015	1	13
IPK_4AB0FNY4	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	549.00	7	07/14/2016	2015	2015	1	13
IPK_4AB0FNY5	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	549.00	7	07/14/2016	2015	2015	1	13
IPK_4AB0FNY5	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	549.00	7	07/14/2016	2015	2015	1	13

ENDYR	ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP
2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000
2015	1	16	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000
2015	1	16	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000
2015	1	16	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000
2015	1	15	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000
2015	1	15	DSL	Rotary Table or Top Drive	4	Oil Drilling	34	Driling Rig	22.00	1.00	135.00	175	121	175	150.479170000
2015	1	15	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	455.00	500	251	500	367.025640000
2015	1	15	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	442.00	500	251	500	367.025640000
2015	1	15	DSL	Diesel Engine For Mud Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	424.00	500	251	500	367.025640000
2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000
2015	1	17	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000
2015	1	17	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000
2015	1	17	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000
2015	1	16	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000
2015	1	16	DSL	Rotary Table or Top Drive	4	Oil Drilling	34	Driling Rig	22.00	1.00	135.00	175	121	175	150.479170000
2015	1	16	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	455.00	500	251	500	367.025640000
2015	1	16	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	442.00	500	251	500	367.025640000
2015	1	16	DSL	Diesel Engine For Mud Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	424.00	500	251	500	367.025640000
2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000
2015	1	18	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000
2015	1	18	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000
2015	1	18	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000
2015	1	17	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000
2015	1	17	DSL	Rotary Table or Top Drive	4	Oil Drilling	34	Driling Rig	22.00	1.00	135.00	175	121	175	150.479170000
2015	1	17	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	455.00	500	251	500	367.025640000
2015	1	17	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	442.00	500	251	500	367.025640000
2015	1	17	DSL	Diesel Engine For Mud Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	424.00	500	251	500	367.025640000

ENDYR	ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP
2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000
2015	1	19	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000
2015	1	19	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000
2015	1	19	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000
2015	1	18	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000
2015	1	18	DSL	Rotary Table or Top Drive	4	Oil Drilling	34	Driling Rig	22.00	1.00	135.00	175	121	175	150.479170000
2015	1	18	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	455.00	500	251	500	367.025640000
2015	1	18	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	442.00	500	251	500	367.025640000
2015	1	18	DSL	Diesel Engine For Mud Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	424.00	500	251	500	367.025640000
2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000
2015	1	21	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000
2015	1	21	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000
2015	1	21	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000
2015	1	20	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000
2015	1	20	DSL	Rotary Table or Top Drive	4	Oil Drilling	34	Driling Rig	22.00	1.00	135.00	175	121	175	150.479170000
2015	1	20	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	455.00	500	251	500	367.025640000
2015	1	20	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	442.00	500	251	500	367.025640000
2015	1	20	DSL	Diesel Engine For Mud Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	424.00	500	251	500	367.025640000
2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000
2015	1	23	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000
2015	1	23	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000
2015	1	23	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000
2015	1	22	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000
2015	1	22	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	144.00	175	121	175	150.479170000
2015	1	22	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	996.00	1000	751	9999	769.666670000
2015	1	22	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	981.00	1000	751	9999	769.666670000
2015	1	22	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1145.00	1000	751	9999	769.666670000

ENDYR	ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP
2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000
2015	1	25	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000
2015	1	25	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000
2015	1	25	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000
2015	1	24	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000
2015	1	24	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	144.00	175	121	175	150.479170000
2015	1	24	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	996.00	1000	751	9999	769.666670000
2015	1	24	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	981.00	1000	751	9999	769.666670000
2015	1	24	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1145.00	1000	751	9999	769.666670000
2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000
2015	1	28	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000
2015	1	28	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000
2015	1	28	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000
2015	1	27	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000
2015	1	27	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	144.00	175	121	175	150.479170000
2015	1	27	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	996.00	1000	751	9999	769.666670000
2015	1	27	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	981.00	1000	751	9999	769.666670000
2015	1	27	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1145.00	1000	751	9999	769.666670000
2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000
2015	1	31	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000
2015	1	31	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000
2015	1	31	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000
2015	1	30	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000
2015	1	30	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	144.00	175	121	175	150.479170000
2015	1	30	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	996.00	1000	751	9999	769.666670000
2015	1	30	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	981.00	1000	751	9999	769.666670000
2015	1	30	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1145.00	1000	751	9999	769.666670000

ENDYR	ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP
2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000
2015	2	5	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000
2015	2	5	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000
2015	2	5	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000
2015	2	4	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000
2015	2	4	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	144.00	175	121	175	150.479170000
2015	2	4	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	996.00	1000	751	9999	769.666670000
2015	2	4	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	981.00	1000	751	9999	769.666670000
2015	2	4	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1145.00	1000	751	9999	769.666670000
2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000
2015	2	10	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000
2015	2	10	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000
2015	2	10	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000
2015	2	9	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000
2015	2	9	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	158.00	175	121	175	150.479170000
2015	2	9	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1094.00	1000	751	9999	769.666670000
2015	2	9	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	962.00	1000	751	9999	769.666670000
2015	2	9	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1898.00	1000	751	9999	769.666670000
2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000
2015	2	17	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000
2015	2	17	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000
2015	2	17	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000
2015	2	16	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000
2015	2	16	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	158.00	175	121	175	150.479170000
2015	2	16	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1094.00	1000	751	9999	769.666670000
2015	2	16	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	962.00	1000	751	9999	769.666670000
2015	2	16	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1898.00	1000	751	9999	769.666670000

ENDYR	ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP
2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000
2015	2	25	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000
2015	2	25	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000
2015	2	25	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000
2015	2	24	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000
2015	2	24	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	158.00	175	121	175	150.479170000
2015	2	24	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1094.00	1000	751	9999	769.666670000
2015	2	24	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	962.00	1000	751	9999	769.666670000
2015	2	24	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1898.00	1000	751	9999	769.666670000
2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000
2015	3	7	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000
2015	3	7	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000
2015	3	7	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000
2015	3	6	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000
2015	3	6	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	158.00	175	121	175	150.479170000
2015	3	6	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1094.00	1000	751	9999	769.666670000
2015	3	6	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	962.00	1000	751	9999	769.666670000
2015	3	6	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1898.00	1000	751	9999	769.666670000
2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000
2015	3	19	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000
2015	3	19	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000
2015	3	19	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000
2015	3	18	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000
2015	3	18	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	158.00	175	121	175	150.479170000
2015	3	18	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1094.00	1000	751	9999	769.666670000

ENDYR	ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP
2015	3	18	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	962.00	1000	751	9999	769.666670000
2015	3	18	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1898.00	1000	751	9999	769.666670000
2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000
2015	4	4	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000
2015	4	4	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000
2015	4	4	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000
2015	4	3	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000
2015	4	3	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	180.00	250	176	250	212.472220000
2015	4	3	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1211.00	1000	751	9999	769.666670000
2015	4	3	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1165.00	1000	751	9999	769.666670000
2015	4	3	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	2203.00	1000	751	9999	769.666670000

2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000
2015	4	23	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000
2015	4	23	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000
2015	4	23	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000
2015	4	22	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000
2015	4	22	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	180.00	250	176	250	212.472220000
2015	4	22	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1211.00	1000	751	9999	769.666670000
2015	4	22	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1165.00	1000	751	9999	769.666670000
2015	4	22	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	2203.00	1000	751	9999	769.666670000

2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000
2015	5	17	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000
2015	5	17	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000
2015	5	17	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000
2015	5	16	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000

ENDYR	ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP
2015	5	16	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	180.00	250	176	250	212.472220000
2015	5	16	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1211.00	1000	751	9999	769.666670000
2015	5	16	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1165.00	1000	751	9999	769.666670000
2015	5	16	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	2203.00	1000	751	9999	769.666670000
2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000
2015	6	15	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000
2015	6	15	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000
2015	6	15	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000
2015	6	14	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000
2015	6	14	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	180.00	250	176	250	212.472220000
2015	6	14	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1211.00	1000	751	9999	769.666670000
2015	6	14	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1165.00	1000	751	9999	769.666670000
2015	6	14	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	2203.00	1000	751	9999	769.666670000
2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000
2015	7	22	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000
2015	7	22	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000
2015	7	22	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000
2015	7	21	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000
2015	7	21	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	180.00	250	176	250	212.472220000
2015	7	21	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1211.00	1000	751	9999	769.666670000
2015	7	21	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1165.00	1000	751	9999	769.666670000
2015	7	21	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	2203.00	1000	751	9999	769.666670000
2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000
2015	9	4	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000
2015	9	4	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000

ENDYR	ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP
2015	9	4	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000
2015	9	3	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000
2015	9	3	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	180.00	250	176	250	212.472220000
2015	9	3	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1361.00	1000	751	9999	769.666670000
2015	9	3	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1342.00	1000	751	9999	769.666670000
2015	9	3	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	2274.00	1000	751	9999	769.666670000
2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000
2015	10	30	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000
2015	10	30	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000
2015	10	30	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000
2015	10	29	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000
2015	10	29	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	180.00	250	176	250	212.472220000
2015	10	29	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1361.00	1000	751	9999	769.666670000
2015	10	29	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1342.00	1000	751	9999	769.666670000
2015	10	29	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	2274.00	1000	751	9999	769.666670000
2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000
2016	1	7	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000
2016	1	7	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000
2016	1	7	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000
2016	1	6	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000
2016	1	6	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	180.00	250	176	250	212.472220000
2016	1	6	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1361.00	1000	751	9999	769.666670000
2016	1	6	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1342.00	1000	751	9999	769.666670000
2016	1	6	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	2274.00	1000	751	9999	769.666670000
2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000

ENDYR	ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP
2016	4	1	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000
2016	4	1	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000
2016	4	1	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000
2016	3	31	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000
2016	3	31	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	180.00	250	176	250	212.472220000
2016	3	31	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1361.00	1000	751	9999	769.666670000
2016	3	31	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1342.00	1000	751	9999	769.666670000
2016	3	31	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	2274.00	1000	751	9999	769.666670000
2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000
2016	7	15	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000
2016	7	15	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000
2016	7	15	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000
2016	7	14	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000
2016	7	14	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	180.00	250	176	250	212.472220000
2016	7	14	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1361.00	1000	751	9999	769.666670000
2016	7	14	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1342.00	1000	751	9999	769.666670000
2016	7	14	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	2274.00	1000	751	9999	769.666670000

CATLOAD	CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	TOGGBHP	PMGBHP	NOXGBHP	ROGGBHP	COGBHP	SOXGBHP	PM10GBHP	PM25GBHP	CO2GBHP	CH4GBHP
0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290
0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290
0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290
0.502500000	0.367000000	1249.795948400	3.920185384	4899.431810100	0.605300744	0.427684380	7.200925017	0.506455132	4.250000000	0.004994136	0.427684380	0.393469630	529.325410480	0.000066290
0.502500000	0.367000000	1315.004200600	9.561513062	12573.429840000	0.291050679	0.151943144	4.895160585	0.243522103	4.250000000	0.004994136	0.151943144	0.139787692	529.325410480	0.000066290
0.502500000	0.367000000	1315.004200600	9.561513062	12573.429840000	0.291050679	0.151943144	4.895160585	0.243522103	4.250000000	0.004994136	0.151943144	0.139787692	529.325410480	0.000066290
0.502500000	0.367000000	1315.004200600	9.561513062	12573.429840000	0.291050679	0.151943144	4.895160585	0.243522103	4.250000000	0.004994136	0.151943144	0.139787692	529.325410480	0.000066290

0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290
0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290
0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290
0.502500000	0.367000000	1249.795948400	3.920185384	4899.431810100	0.605300744	0.427684380	7.200925017	0.506455132	4.250000000	0.004994136	0.427684380	0.393469630	529.325410480	0.000066290
0.502500000	0.367000000	1315.004200600	9.561513062	12573.429840000	0.291050679	0.151943144	4.895160585	0.243522103	4.250000000	0.004994136	0.151943144	0.139787692	529.325410480	0.000066290
0.502500000	0.367000000	1315.004200600	9.561513062	12573.429840000	0.291050679	0.151943144	4.895160585	0.243522103	4.250000000	0.004994136	0.151943144	0.139787692	529.325410480	0.000066290
0.502500000	0.367000000	1315.004200600	9.561513062	12573.429840000	0.291050679	0.151943144	4.895160585	0.243522103	4.250000000	0.004994136	0.151943144	0.139787692	529.325410480	0.000066290

CATLOAD	CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	TOGGBHP	PMGBHP	NOXGBHP	ROGGBHP	COGBHP	SOXGBHP	PM10GBHP	PM25GBHP	CO2GBHP	CH4GBHP
0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290
0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290
0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290
0.502500000	0.367000000	1249.795948400	3.920185384	4899.431810100	0.605300744	0.427684380	7.200925017	0.506455132	4.250000000	0.004994136	0.427684380	0.393469630	529.325410480	0.000066290
0.502500000	0.367000000	1315.004200600	9.561513062	12573.429840000	0.291050679	0.151943144	4.895160585	0.243522103	4.250000000	0.004994136	0.151943144	0.139787692	529.325410480	0.000066290
0.502500000	0.367000000	1315.004200600	9.561513062	12573.429840000	0.291050679	0.151943144	4.895160585	0.243522103	4.250000000	0.004994136	0.151943144	0.139787692	529.325410480	0.000066290
0.502500000	0.367000000	1315.004200600	9.561513062	12573.429840000	0.291050679	0.151943144	4.895160585	0.243522103	4.250000000	0.004994136	0.151943144	0.139787692	529.325410480	0.000066290

0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290
0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290
0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290
0.502500000	0.367000000	1249.795948400	3.920185384	4899.431810100	0.605300744	0.427684380	7.200925017	0.506455132	4.250000000	0.004994136	0.427684380	0.393469630	529.325410480	0.000066290
0.502500000	0.367000000	1315.004200600	9.561513062	12573.429840000	0.291050679	0.151943144	4.895160585	0.243522103	4.250000000	0.004994136	0.151943144	0.139787692	529.325410480	0.000066290
0.502500000	0.367000000	1315.004200600	9.561513062	12573.429840000	0.291050679	0.151943144	4.895160585	0.243522103	4.250000000	0.004994136	0.151943144	0.139787692	529.325410480	0.000066290
0.502500000	0.367000000	1315.004200600	9.561513062	12573.429840000	0.291050679	0.151943144	4.895160585	0.243522103	4.250000000	0.004994136	0.151943144	0.139787692	529.325410480	0.000066290

0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290
0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290
0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290
0.502500000	0.367000000	1249.795948400	3.920185384	4899.431810100	0.605300744	0.427684380	7.200925017	0.506455132	4.250000000	0.004994136	0.427684380	0.393469630	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290

CATLOAD	CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	TOGGBHP	PMGBHP	NOXGBHP	ROGGBHP	COGBHP	SOXGBHP	PM10GBHP	PM25GBHP	CO2GBHP	CH4GBHP
0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290
0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290
0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290
0.502500000	0.367000000	1249.795948400	3.920185384	4899.431810100	0.605300744	0.427684380	7.200925017	0.506455132	4.250000000	0.004994136	0.427684380	0.393469630	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290

0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290
0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290
0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290
0.502500000	0.367000000	1249.795948400	3.920185384	4899.431810100	0.605300744	0.427684380	7.200925017	0.506455132	4.250000000	0.004994136	0.427684380	0.393469630	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290

0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290
0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290
0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290
0.502500000	0.367000000	1249.795948400	3.920185384	4899.431810100	0.605300744	0.427684380	7.200925017	0.506455132	4.250000000	0.004994136	0.427684380	0.393469630	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290

CATLOAD	CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	TOGGBHP	PMGBHP	NOXGBHP	ROGGBHP	COGBHP	SOXGBHP	PM10GBHP	PM25GBHP	CO2GBHP	CH4GBHP
0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290
0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290
0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290
0.502500000	0.367000000	1249.795948400	3.920185384	4899.431810100	0.605300744	0.427684380	7.200925017	0.506455132	4.250000000	0.004994136	0.427684380	0.393469630	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290

0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290
0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290
0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290
0.502500000	0.367000000	1249.795948400	3.920185384	4899.431810100	0.605300744	0.427684380	7.200925017	0.506455132	4.250000000	0.004994136	0.427684380	0.393469630	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290

CATLOAD	CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	TOGGBHP	PMGBHP	NOXGBHP	ROGGBHP	COGBHP	SOXGBHP	PM10GBHP	PM25GBHP	CO2GBHP	CH4GBHP
0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290
0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290
0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290
0.502500000	0.367000000	1249.795948400	3.920185384	4899.431810100	0.605300744	0.427684380	7.200925017	0.506455132	4.250000000	0.004994136	0.427684380	0.393469630	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290

0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290
0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290
0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290
0.502500000	0.367000000	1249.795948400	3.920185384	4899.431810100	0.605300744	0.427684380	7.200925017	0.506455132	4.250000000	0.004994136	0.427684380	0.393469630	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290

CATLOAD	CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	TOGGBHP	PMGBHP	NOXGBHP	ROGGBHP	COGBHP	SOXGBHP	PM10GBHP	PM25GBHP	CO2GBHP	CH4GBHP
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290
0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290
0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290
0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290
0.502500000	0.367000000	1286.375127100	5.535187969	7120.328126800	0.344390767	0.182534978	5.701322246	0.288151755	4.250000000	0.004994136	0.182534978	0.167932179	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290
0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290
0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290
0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290

CATLOAD	CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	TOGGBHP	PMGBHP	NOXGBHP	ROGGBHP	COGBHP	SOXGBHP	PM10GBHP	PM25GBHP	CO2GBHP	CH4GBHP
0.502500000	0.367000000	1286.375127100	5.535187969	7120.328126800	0.344390767	0.182534978	5.701322246	0.288151755	4.250000000	0.004994136	0.182534978	0.167932179	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290
0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290
0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290
0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290
0.502500000	0.367000000	1286.375127100	5.535187969	7120.328126800	0.344390767	0.182534978	5.701322246	0.288151755	4.250000000	0.004994136	0.182534978	0.167932179	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290
0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290
0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290

CATLOAD	CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	TOGGBHP	PMGBHP	NOXGBHP	ROGGBHP	COGBHP	SOXGBHP	PM10GBHP	PM25GBHP	CO2GBHP	CH4GBHP
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290
0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290
0.502500000	0.367000000	1286.375127100	5.535187969	7120.328126800	0.344390767	0.182534978	5.701322246	0.288151755	4.250000000	0.004994136	0.182534978	0.167932179	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290
0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290
0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290
0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290
0.502500000	0.367000000	1286.375127100	5.535187969	7120.328126800	0.344390767	0.182534978	5.701322246	0.288151755	4.250000000	0.004994136	0.182534978	0.167932179	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290
0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290

CATLOAD	CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	TOGGBHP	PMGBHP	NOXGBHP	ROGGBHP	COGBHP	SOXGBHP	PM10GBHP	PM25GBHP	CO2GBHP	CH4GBHP
0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290
0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290
0.502500000	0.367000000	1286.375127100	5.535187969	7120.328126800	0.344390767	0.182534978	5.701322246	0.288151755	4.250000000	0.004994136	0.182534978	0.167932179	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290
0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290
0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290
0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290
0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290
0.502500000	0.367000000	1286.375127100	5.535187969	7120.328126800	0.344390767	0.182534978	5.701322246	0.288151755	4.250000000	0.004994136	0.182534978	0.167932179	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290
0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290

N2OGBHP	TOGLBMG	PMLBMG	NOXLBMG	ROGLBMG	COLBMG	SOXLBMG	PM10LBMG	PM25LBMG	CO2LBMG	CH4LBMG	N2OLBMG	TOGLBD	PMLBD
0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537
0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444
0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417
0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956
0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304
0.000029716	25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839	16.731852172	22508.966000000	1.278659612	0.573192240	1.991547536	1.407157983
0.000029716	12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928	22508.966000000	1.278659612	0.573192240	3.227496010	1.684915809
0.000029716	12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928	22508.966000000	1.278659612	0.573192240	3.135281838	1.636775358
0.000029716	12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928	22508.966000000	1.278659612	0.573192240	3.007600678	1.570119348

0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537
0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444
0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417
0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956
0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304
0.000029716	25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839	16.731852172	22508.966000000	1.278659612	0.573192240	1.991547536	1.407157983
0.000029716	12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928	22508.966000000	1.278659612	0.573192240	3.227496010	1.684915809
0.000029716	12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928	22508.966000000	1.278659612	0.573192240	3.135281838	1.636775358
0.000029716	12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928	22508.966000000	1.278659612	0.573192240	3.007600678	1.570119348

N2OGBHP	TOGLBMG	PMLBMG	NOXLBMG	ROGLBMG	COLBMG	SOXLBMG	PM10LBMG	PM25LBMG	CO2LBMG	CH4LBMG	N2OLBMG	TOGLBD	PMLBD
0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537
0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444
0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417
0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956
0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304
0.000029716	25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839	16.731852172	22508.966000000	1.278659612	0.573192240	1.991547536	1.407157983
0.000029716	12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928	22508.966000000	1.278659612	0.573192240	3.227496010	1.684915809
0.000029716	12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928	22508.966000000	1.278659612	0.573192240	3.135281838	1.636775358
0.000029716	12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928	22508.966000000	1.278659612	0.573192240	3.007600678	1.570119348

0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537
0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444
0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417
0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956
0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304
0.000029716	25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839	16.731852172	22508.966000000	1.278659612	0.573192240	1.991547536	1.407157983
0.000029716	12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928	22508.966000000	1.278659612	0.573192240	3.227496010	1.684915809
0.000029716	12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928	22508.966000000	1.278659612	0.573192240	3.135281838	1.636775358
0.000029716	12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928	22508.966000000	1.278659612	0.573192240	3.007600678	1.570119348

0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537
0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444
0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417
0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956
0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304
0.000029716	25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839	16.731852172	22508.966000000	1.278659612	0.573192240	2.124317372	1.500968515
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	7.309296041	3.866515546
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	7.199216281	3.808284890
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	8.402754987	4.444940060

N2OGBHP	TOGLBMG	PMLBMG	NOXLBMG	ROGLBMG	COLBMG	SOXLBMG	PM10LBMG	PM25LBMG	CO2LBMG	CH4LBMG	N2OLBMG	TOGLBD	PMLBD
0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537
0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444
0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417
0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956
0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304
0.000029716	25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839	16.731852172	22508.966000000	1.278659612	0.573192240	2.124317372	1.500968515
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	7.309296041	3.866515546
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	7.199216281	3.808284890
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	8.402754987	4.444940060

0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537
0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444
0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417
0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956
0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304
0.000029716	25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839	16.731852172	22508.966000000	1.278659612	0.573192240	2.124317372	1.500968515
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	7.309296041	3.866515546
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	7.199216281	3.808284890
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	8.402754987	4.444940060

N2OGBHP	TOGLBMG	PMLBMG	NOXLBMG	ROGLBMG	COLBMG	SOXLBMG	PM10LBMG	PM25LBMG	CO2LBMG	CH4LBMG	N2OLBMG	TOGLBD	PMLBD
0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537
0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444
0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417
0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956
0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304
0.000029716	25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839	16.731852172	22508.966000000	1.278659612	0.573192240	2.124317372	1.500968515
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	7.309296041	3.866515546
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	7.199216281	3.808284890
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	8.402754987	4.444940060

0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537
0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444
0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417
0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956
0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304
0.000029716	25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839	16.731852172	22508.966000000	1.278659612	0.573192240	2.330848227	1.646896010
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	8.028483804	4.246955830
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	7.059781919	3.734526059
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	13.928758921	7.368118982

N2OGBHP	TOGLBMG	PMLBMG	NOXLBMG	ROGLBMG	COLBMG	SOXLBMG	PM10LBMG	PM25LBMG	CO2LBMG	CH4LBMG	N2OLBMG	TOGLBD	PMLBD
0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537
0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444
0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417
0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956
0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304
0.000029716	25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839	16.731852172	22508.966000000	1.278659612	0.573192240	2.330848227	1.646896010
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	8.028483804	4.246955830
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	7.059781919	3.734526059
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	13.928758921	7.368118982

0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537
0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444
0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417
0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956
0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304
0.000029716	25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839	16.731852172	22508.966000000	1.278659612	0.573192240	2.330848227	1.646896010
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	8.028483804	4.246955830

N2OGBHP	TOGLBMG	PMLBMG	NOXLBMG	ROGLBMG	COLBMG	SOXLBMG	PM10LBMG	PM25LBMG	CO2LBMG	CH4LBMG	N2OLBMG	TOGLBD	PMLBD
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	7.059781919	3.734526059
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	13.928758921	7.368118982
0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537
0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444
0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417
0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956
0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304
0.000029716	14.644828896	7.762094019	242.442297390	12.253328337	359.654638780	0.212370000	7.762094019	7.141126498	22508.966000000	1.278659612	0.573192240	1.510809496	0.800763562
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	8.887105929	4.701154946
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	8.549527999	4.522580935
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	16.167047367	8.552142317
0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537
0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444
0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417
0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956
0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304

N2OGBHP	TOGLBMG	PMLBMG	NOXLBMG	ROGLBMG	COLBMG	SOXLBMG	PM10LBMG	PM25LBMG	CO2LBMG	CH4LBMG	N2OLBMG	TOGLBD	PMLBD
0.000029716	14.644828896	7.762094019	242.442297390	12.253328337	359.654638780	0.212370000	7.762094019	7.141126498	22508.966000000	1.278659612	0.573192240	1.510809496	0.800763562
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	8.887105929	4.701154946
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	8.549527999	4.522580935
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	16.167047367	8.552142317
0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537
0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444
0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417
0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956
0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304
0.000029716	14.644828896	7.762094019	242.442297390	12.253328337	359.654638780	0.212370000	7.762094019	7.141126498	22508.966000000	1.278659612	0.573192240	1.510809496	0.800763562
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	8.887105929	4.701154946
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	8.549527999	4.522580935
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	16.167047367	8.552142317
0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537
0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444
0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417

N2OGBHP	TOGLBMG	PMLBMG	NOXLBMG	ROGLBMG	COLBMG	SOXLBMG	PM10LBMG	PM25LBMG	CO2LBMG	CH4LBMG	N2OLBMG	TOGLBD	PMLBD
0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956
0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304
0.000029716	14.644828896	7.762094019	242.442297390	12.253328337	359.654638780	0.212370000	7.762094019	7.141126498	22508.966000000	1.278659612	0.573192240	1.510809496	0.800763562
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	9.987903526	5.283461504
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	9.848469163	5.209702673
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	16.688091563	8.827767421
0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537
0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444
0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417
0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956
0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304
0.000029716	14.644828896	7.762094019	242.442297390	12.253328337	359.654638780	0.212370000	7.762094019	7.141126498	22508.966000000	1.278659612	0.573192240	1.510809496	0.800763562
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	9.987903526	5.283461504
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	9.848469163	5.209702673
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	16.688091563	8.827767421
0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537

N2OGBHP	TOGLBMG	PMLBMG	NOXLBMG	ROGLBMG	COLBMG	SOXLBMG	PM10LBMG	PM25LBMG	CO2LBMG	CH4LBMG	N2OLBMG	TOGLBD	PMLBD
0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444
0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417
0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956
0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304
0.000029716	14.644828896	7.762094019	242.442297390	12.253328337	359.654638780	0.212370000	7.762094019	7.141126498	22508.966000000	1.278659612	0.573192240	1.510809496	0.800763562
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	9.987903526	5.283461504
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	9.848469163	5.209702673
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	16.688091563	8.827767421
0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537
0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444
0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417
0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956
0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304
0.000029716	14.644828896	7.762094019	242.442297390	12.253328337	359.654638780	0.212370000	7.762094019	7.141126498	22508.966000000	1.278659612	0.573192240	1.510809496	0.800763562
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	9.987903526	5.283461504
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	9.848469163	5.209702673
0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	16.688091563	8.827767421

NOXLBD	ROGLBD	COLBD	SOXLBD	PM10LBD	PM25LBD	CO2LBD	CH4LBD	N2OLBD	CO2ELBD	TOGLB	PMLB	NOXLB
8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584
4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	4.467866918	1.924977776	19.975688501
8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	3.334137426	2.931753669	34.480538134
23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	9.093102070	7.995691823	94.037831274
30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	6.093842297	3.488526912	92.398984815
23.692329184	1.666327823	13.983258929	0.016431599	1.407157983	1.294585344	1741.575122900	0.000218106	0.000097772	1741.610012400	5.974642608	4.221473949	71.076987552
54.283024960	2.700445912	47.128761574	0.055380575	1.684915809	1.550122545	5869.753191900	0.000735100	0.000329527	5869.870782500	9.682488030	5.054747428	162.849074880
52.732081390	2.623290314	45.782225529	0.053798273	1.636775358	1.505833329	5702.045957800	0.000714097	0.000320112	5702.160188700	9.405845515	4.910326073	158.196244170
50.584621062	2.516459487	43.917791005	0.051607393	1.570119348	1.444509800	5469.835941500	0.000685016	0.000307076	5469.945520400	9.022802033	4.710358043	151.753863190

8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584
4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	5.584833648	2.406222220	24.969610626
8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	4.167671782	3.664692086	43.100672667
23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	11.366377588	9.994614779	117.547289090
30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	8.125123063	4.651369216	123.198646420
23.692329184	1.666327823	13.983258929	0.016431599	1.407157983	1.294585344	1741.575122900	0.000218106	0.000097772	1741.610012400	7.966190144	5.628631932	94.769316736
54.283024960	2.700445912	47.128761574	0.055380575	1.684915809	1.550122545	5869.753191900	0.000735100	0.000329527	5869.870782500	12.909984041	6.739663237	217.132099840
52.732081390	2.623290314	45.782225529	0.053798273	1.636775358	1.505833329	5702.045957800	0.000714097	0.000320112	5702.160188700	12.541127354	6.547101431	210.928325560
50.584621062	2.516459487	43.917791005	0.051607393	1.570119348	1.444509800	5469.835941500	0.000685016	0.000307076	5469.945520400	12.030402710	6.280477391	202.338484250

8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584
4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	6.701800377	2.887466665	29.963532751
8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	5.001206139	4.397630503	51.720807201
23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	13.639653106	11.993537735	141.056746910
30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	10.156403829	5.814211519	153.998308030
23.692329184	1.666327823	13.983258929	0.016431599	1.407157983	1.294585344	1741.575122900	0.000218106	0.000097772	1741.610012400	9.957737681	7.035789915	118.461645920
54.283024960	2.700445912	47.128761574	0.055380575	1.684915809	1.550122545	5869.753191900	0.000735100	0.000329527	5869.870782500	16.137480051	8.424579047	271.415124800
52.732081390	2.623290314	45.782225529	0.053798273	1.636775358	1.505833329	5702.045957800	0.000714097	0.000320112	5702.160188700	15.676409192	8.183876788	263.660406950
50.584621062	2.516459487	43.917791005	0.051607393	1.570119348	1.444509800	5469.835941500	0.000685016	0.000307076	5469.945520400	15.038003388	7.850596738	252.923105310

NOXLBD	ROGLBD	COLBD	SOXLBD	PM10LBD	PM25LBD	CO2LBD	CH4LBD	N2OLBD	CO2ELBD	TOGLB	PMLB	NOXLB
8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584
4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	7.818767107	3.368711109	34.957454876
8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	5.834740495	5.130568920	60.340941734
23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	15.912928623	13.992460691	164.566204730
30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	12.187684595	6.977053823	184.797969630
23.692329184	1.666327823	13.983258929	0.016431599	1.407157983	1.294585344	1741.575122900	0.000218106	0.000097772	1741.610012400	11.949285217	8.442947898	142.153975100
54.283024960	2.700445912	47.128761574	0.055380575	1.684915809	1.550122545	5869.753191900	0.000735100	0.000329527	5869.870782500	19.364976061	10.109494856	325.698149760
52.732081390	2.623290314	45.782225529	0.053798273	1.636775358	1.505833329	5702.045957800	0.000714097	0.000320112	5702.160188700	18.811691031	9.820652146	316.392488340
50.584621062	2.516459487	43.917791005	0.051607393	1.570119348	1.444509800	5469.835941500	0.000685016	0.000307076	5469.945520400	18.045604066	9.420716086	303.507726370

8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584
4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	10.052700566	4.331199997	44.945299127
8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	7.501809208	6.596445754	77.581210801
23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	20.459479658	17.990306602	211.585120370
30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	16.250246126	9.302738431	246.397292840
23.692329184	1.666327823	13.983258929	0.016431599	1.407157983	1.294585344	1741.575122900	0.000218106	0.000097772	1741.610012400	15.932380289	11.257263864	189.538633470
54.283024960	2.700445912	47.128761574	0.055380575	1.684915809	1.550122545	5869.753191900	0.000735100	0.000329527	5869.870782500	25.819968081	13.479326475	434.264199680
52.732081390	2.623290314	45.782225529	0.053798273	1.636775358	1.505833329	5702.045957800	0.000714097	0.000320112	5702.160188700	25.082254707	13.094202861	421.856651120
50.584621062	2.516459487	43.917791005	0.051607393	1.570119348	1.444509800	5469.835941500	0.000685016	0.000307076	5469.945520400	24.060805421	12.560954781	404.676968490

8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584
4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	12.286634025	5.293688885	54.933143377
8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	9.168877921	8.062322588	94.821479868
23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	25.006030694	21.988152514	258.604036000
30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	20.312807658	11.628423039	307.996616050
25.271817796	1.777416345	14.915476190	0.017527039	1.500968515	1.380891034	1857.680131100	0.000232647	0.000104290	1857.717346500	21.243173719	15.009685153	252.718177960
131.967908860	6.115687997	103.165376980	0.121228688	3.866515546	3.557194302	12848.954240000	0.001609141	0.000721339	12849.211647000	73.092960408	38.665155458	1319.679088600
129.980440360	6.023584262	101.611681550	0.119402955	3.808284890	3.503622099	12655.445893000	0.001584907	0.000710476	12655.699423000	71.992162811	38.082848900	1299.804403600
151.710096030	7.030585097	118.598751650	0.139364305	4.444940060	4.089344855	14771.137153000	0.001849866	0.000829250	14771.433068000	84.027549866	44.449400602	1517.100960300

NOXLBD	ROGLBD	COLBD	SOXLBD	PM10LBD	PM25LBD	CO2LBD	CH4LBD	N2OLBD	CO2ELBD	TOGLB	PMLB	NOXLB
8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584
4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	14.520567484	6.256177773	64.920987627
8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	10.835946634	9.528199423	112.061748930
23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	29.552581729	25.985998425	305.622951640
30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	24.375369189	13.954107647	369.595939260
25.271817796	1.777416345	14.915476190	0.017527039	1.500968515	1.380891034	1857.680131100	0.000232647	0.000104290	1857.717346500	25.491808462	18.011622183	303.261813560
131.967908860	6.115687997	103.165376980	0.121228688	3.866515546	3.557194302	12848.954240000	0.001609141	0.000721339	12849.211647000	87.711552489	46.398186550	1583.614906400
129.980440360	6.023584262	101.611681550	0.119402955	3.808284890	3.503622099	12655.445893000	0.001584907	0.000710476	12655.699423000	86.390595373	45.699418680	1559.765284300
151.710096030	7.030585097	118.598751650	0.139364305	4.444940060	4.089344855	14771.137153000	0.001849866	0.000829250	14771.433068000	100.833059840	53.339280722	1820.521152400

8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584
4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	17.871467673	7.699911105	79.902754003
8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	13.336549703	11.727014674	137.922152540
23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	36.372408282	31.982767293	376.151325100
30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	30.469211487	17.442634558	461.994924080
25.271817796	1.777416345	14.915476190	0.017527039	1.500968515	1.380891034	1857.680131100	0.000232647	0.000104290	1857.717346500	31.864760578	22.514527729	379.077266940
131.967908860	6.115687997	103.165376980	0.121228688	3.866515546	3.557194302	12848.954240000	0.001609141	0.000721339	12849.211647000	109.639440610	57.997733187	1979.518633000
129.980440360	6.023584262	101.611681550	0.119402955	3.808284890	3.503622099	12655.445893000	0.001584907	0.000710476	12655.699423000	107.988244220	57.124273350	1949.706605400
151.710096030	7.030585097	118.598751650	0.139364305	4.444940060	4.089344855	14771.137153000	0.001849866	0.000829250	14771.433068000	126.041324800	66.674100903	2275.651440500

8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584
4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	21.222367861	9.143644438	94.884520378
8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	15.837152773	13.925829925	163.782556140
23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	43.192234834	37.979536160	446.679698550
30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	36.563053784	20.931161470	554.393908890
25.271817796	1.777416345	14.915476190	0.017527039	1.500968515	1.380891034	1857.680131100	0.000232647	0.000104290	1857.717346500	38.237712693	27.017433275	454.892720330
131.967908860	6.115687997	103.165376980	0.121228688	3.866515546	3.557194302	12848.954240000	0.001609141	0.000721339	12849.211647000	131.567328730	69.597279824	2375.422359500
129.980440360	6.023584262	101.611681550	0.119402955	3.808284890	3.503622099	12655.445893000	0.001584907	0.000710476	12655.699423000	129.585893060	68.549128020	2339.647926400
151.710096030	7.030585097	118.598751650	0.139364305	4.444940060	4.089344855	14771.137153000	0.001849866	0.000829250	14771.433068000	151.249589760	80.008921083	2730.781728600

NOXLBD	ROGLBD	COLBD	SOXLBD	PM10LBD	PM25LBD	CO2LBD	CH4LBD	N2OLBD	CO2ELBD	TOGLB	PMLB	NOXLB
8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584
4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	26.807201509	11.549866658	119.854131000
8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	20.004824555	17.590522011	206.883228800
23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	54.558612422	47.974150939	564.226987640
30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	46.719457613	26.745372989	708.392216920
25.271817796	1.777416345	14.915476190	0.017527039	1.500968515	1.380891034	1857.680131100	0.000232647	0.000104290	1857.717346500	48.859299553	34.522275851	581.251809310
131.967908860	6.115687997	103.165376980	0.121228688	3.866515546	3.557194302	12848.954240000	0.001609141	0.000721339	12849.211647000	168.113808940	88.929857553	3035.261903900
129.980440360	6.023584262	101.611681550	0.119402955	3.808284890	3.503622099	12655.445893000	0.001584907	0.000710476	12655.699423000	165.581974470	87.590552470	2989.550128200
151.710096030	7.030585097	118.598751650	0.139364305	4.444940060	4.089344855	14771.137153000	0.001849866	0.000829250	14771.433068000	193.263364690	102.233621380	3489.332208800

NOXLBD	ROGLBD	COLBD	SOXLBD	PM10LBD	PM25LBD	CO2LBD	CH4LBD	N2OLBD	CO2ELBD	TOGLB	PMLB	NOXLB
8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584
4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	32.392035157	13.956088879	144.823741630
8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	24.172496337	21.255214097	249.983901470
23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	65.924990010	57.968765718	681.774276740
30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	56.875861442	32.559584509	862.390524940
27.728800082	1.950220712	16.365591931	0.019231057	1.646896010	1.515144329	2038.287921600	0.000255265	0.000114429	2038.328755200	65.263750369	46.113088274	776.406402300
144.952703110	6.717432399	113.316187170	0.133156812	4.246955830	3.907199364	14113.208773000	0.001767470	0.000792314	14113.491508000	224.797546510	118.914763250	4058.675687100
127.462980250	5.906919532	99.643667328	0.117090359	3.734526059	3.435763975	12410.335320000	0.001554211	0.000696715	12410.583940000	197.673893730	104.566729660	3568.963446900
251.481015080	11.654192589	196.594262570	0.231016114	7.368118982	6.778669463	24485.256172000	0.003066416	0.001374600	24485.746693000	390.005249790	206.307331490	7041.468422400

NOXLBD	ROGLBD	COLBD	SOXLBD	PM10LBD	PM25LBD	CO2LBD	CH4LBD	N2OLBD	CO2ELBD	TOGLB	PMLB	NOXLB
8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584
4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	40.210802264	17.324799987	179.781196510
8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	30.007236832	26.385783017	310.324843200
23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	81.837918634	71.961226409	846.340481460
30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	71.094826802	40.699480636	1077.988156200
27.728800082	1.950220712	16.365591931	0.019231057	1.646896010	1.515144329	2038.287921600	0.000255265	0.000114429	2038.328755200	81.579687961	57.641360343	970.508002870
144.952703110	6.717432399	113.316187170	0.133156812	4.246955830	3.907199364	14113.208773000	0.001767470	0.000792314	14113.491508000	280.996933130	148.643454060	5073.344608800
127.462980250	5.906919532	99.643667328	0.117090359	3.734526059	3.435763975	12410.335320000	0.001554211	0.000696715	12410.583940000	247.092367160	130.708412080	4461.204308700
251.481015080	11.654192589	196.594262570	0.231016114	7.368118982	6.778669463	24485.256172000	0.003066416	0.001374600	24485.746693000	487.506562240	257.884164370	8801.835527900

NOXLBD	ROGLBD	COLBD	SOXLBD	PM10LBD	PM25LBD	CO2LBD	CH4LBD	N2OLBD	CO2ELBD	TOGLB	PMLB	NOXLB
8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584
4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	49.146536100	21.174755540	219.732573510
8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	36.675511684	32.249290354	379.285919470
23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	100.024122770	87.952610055	1034.416144000
30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	87.345072928	50.002219067	1324.385449000
27.728800082	1.950220712	16.365591931	0.019231057	1.646896010	1.515144329	2038.287921600	0.000255265	0.000114429	2038.328755200	100.226473780	70.816528421	1192.338403500
144.952703110	6.717432399	113.316187170	0.133156812	4.246955830	3.907199364	14113.208773000	0.001767470	0.000792314	14113.491508000	345.224803560	182.619100710	6232.966233700
127.462980250	5.906919532	99.643667328	0.117090359	3.734526059	3.435763975	12410.335320000	0.001554211	0.000696715	12410.583940000	303.570622510	160.584620550	5480.908150700
251.481015080	11.654192589	196.594262570	0.231016114	7.368118982	6.778669463	24485.256172000	0.003066416	0.001374600	24485.746693000	598.936633610	316.829116220	10813.683649000

8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584
4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	60.316203396	25.987199981	269.671794760
8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	45.010855249	39.578674525	465.487264810
23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	122.756877950	107.941839610	1269.510722200
30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	107.657880590	61.630642106	1632.382065100
27.728800082	1.950220712	16.365591931	0.019231057	1.646896010	1.515144329	2038.287921600	0.000255265	0.000114429	2038.328755200	123.534956050	87.285488519	1469.626404300
144.952703110	6.717432399	113.316187170	0.133156812	4.246955830	3.907199364	14113.208773000	0.001767470	0.000792314	14113.491508000	425.509641600	225.088659010	7682.493264800
127.462980250	5.906919532	99.643667328	0.117090359	3.734526059	3.435763975	12410.335320000	0.001554211	0.000696715	12410.583940000	374.168441700	197.929881140	6755.537953100
251.481015080	11.654192589	196.594262570	0.231016114	7.368118982	6.778669463	24485.256172000	0.003066416	0.001374600	24485.746693000	738.224222820	390.510306040	13328.493799000

8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584
4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	73.719804150	31.762133310	329.598860260
8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	55.013267526	48.373935530	568.928879210
23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	150.036184160	131.928915080	1551.624216000
30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	132.033249780	75.584749753	2001.978004300
27.728800082	1.950220712	16.365591931	0.019231057	1.646896010	1.515144329	2038.287921600	0.000255265	0.000114429	2038.328755200	151.505134780	107.048240640	1802.372005300
144.952703110	6.717432399	113.316187170	0.133156812	4.246955830	3.907199364	14113.208773000	0.001767470	0.000792314	14113.491508000	521.851447250	276.052128980	9421.925702100

NOXLBD	ROGLBD	COLBD	SOXLBD	PM10LBD	PM25LBD	CO2LBD	CH4LBD	N2OLBD	CO2ELBD	TOGLB	PMLB	NOXLB
127.462980250	5.906919532	99.643667328	0.117090359	3.734526059	3.435763975	12410.335320000	0.001554211	0.000696715	12410.583940000	458.885824730	242.744193850	8285.093716100
251.481015080	11.654192589	196.594262570	0.231016114	7.368118982	6.778669463	24485.256172000	0.003066416	0.001374600	24485.746693000	905.369329870	478.927733820	16346.265980000
8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584
4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	91.591271823	39.462044415	409.501614260
8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	68.349817229	60.100950204	706.851031740
23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	186.408592440	163.911682380	1927.775541100
30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	164.533742030	94.190226615	2494.772590000
25.011157709	1.264094305	18.644345238	0.021908799	0.800763562	0.736702477	2322.100163800	0.000290809	0.000130362	2322.146683200	122.375569180	64.861848530	2025.903774400
160.454957460	7.435841531	125.435011570	0.147397531	4.701154946	4.325062550	15622.573880000	0.001956496	0.000877050	15622.886852000	719.855580260	380.793550610	12996.851555000
154.360054040	7.153390077	120.670345570	0.141798616	4.522580935	4.160774460	15029.148283000	0.001882178	0.000843735	15029.449366000	692.511767960	366.329055700	12503.164377000
291.892874730	13.526968532	228.186069780	0.268139357	8.552142317	7.867970931	28419.925894000	0.003559175	0.001595492	28420.495239000	1309.530836800	692.723527650	23643.322853000

8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584
4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	112.813639680	48.605688853	504.386134640
8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	84.186970002	74.026780130	870.633587880
23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	229.600827280	201.891218540	2374.455239700
30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	203.128076580	116.284230390	3079.966160500
25.011157709	1.264094305	18.644345238	0.021908799	0.800763562	0.736702477	2322.100163800	0.000290809	0.000130362	2322.146683200	151.080949600	80.076356210	2501.115770900
160.454957460	7.435841531	125.435011570	0.147397531	4.701154946	4.325062550	15622.573880000	0.001956496	0.000877050	15622.886852000	888.710592910	470.115494570	16045.495746000
154.360054040	7.153390077	120.670345570	0.141798616	4.522580935	4.160774460	15029.148283000	0.001882178	0.000843735	15029.449366000	854.952799950	452.258093460	15436.005404000
291.892874730	13.526968532	228.186069780	0.268139357	8.552142317	7.867970931	28419.925894000	0.003559175	0.001595492	28420.495239000	1616.704736700	855.214231670	29189.287473000

8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584
4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	139.620841190	60.155555511	624.240265650
8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	104.191794560	91.617302141	1077.516816700
23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	284.159439700	249.865369480	2938.682227300
30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	251.878814960	144.192445680	3819.158039000

NOXLBD	ROGLBD	COLBD	SOXLBD	PM10LBD	PM25LBD	CO2LBD	CH4LBD	N2OLBD	CO2ELBD	TOGLB	PMLB	NOXLB
25.011157709	1.264094305	18.644345238	0.021908799	0.800763562	0.736702477	2322.100163800	0.000290809	0.000130362	2322.146683200	187.340377510	99.294681700	3101.383555900
160.454957460	7.435841531	125.435011570	0.147397531	4.701154946	4.325062550	15622.573880000	0.001956496	0.000877050	15622.886852000	1102.001135200	582.943213270	19896.414726000
154.360054040	7.153390077	120.670345570	0.141798616	4.522580935	4.160774460	15029.148283000	0.001882178	0.000843735	15029.449366000	1060.141471900	560.800035890	19140.646701000
291.892874730	13.526968532	228.186069780	0.268139357	8.552142317	7.867970931	28419.925894000	0.003559175	0.001595492	28420.495239000	2004.713873500	1060.465647300	36194.716466000
8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584
4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	172.012876350	74.111644390	769.064007280
8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	128.364290890	112.872516240	1327.500718100
23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	350.084429710	307.834135190	3620.456504000
30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	310.785957160	177.914872490	4712.348225600
25.011157709	1.264094305	18.644345238	0.021908799	0.800763562	0.736702477	2322.100163800	0.000290809	0.000130362	2322.146683200	231.153852890	122.516825000	3826.707129400
160.454957460	7.435841531	125.435011570	0.147397531	4.701154946	4.325062550	15622.573880000	0.001956496	0.000877050	15622.886852000	1359.727207200	719.276706700	24549.608492000
154.360054040	7.153390077	120.670345570	0.141798616	4.522580935	4.160774460	15029.148283000	0.001882178	0.000843735	15029.449366000	1308.077783900	691.954882990	23617.088269000
291.892874730	13.526968532	228.186069780	0.268139357	8.552142317	7.867970931	28419.925894000	0.003559175	0.001595492	28420.495239000	2473.558247200	1308.477774400	44659.609833000

8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584
4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	213.340645340	91.917688821	953.839125910
8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	159.205062080	139.991237670	1646.445695900
23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	434.195623860	381.794284560	4490.306443300
30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	385.943345500	220.940037740	5851.935705000
25.011157709	1.264094305	18.644345238	0.021908799	0.800763562	0.736702477	2322.100163800	0.000290809	0.000130362	2322.146683200	287.053804250	152.145076800	4752.119964600
160.454957460	7.435841531	125.435011570	0.147397531	4.701154946	4.325062550	15622.573880000	0.001956496	0.000877050	15622.886852000	1688.550126500	893.219439690	30486.441918000
154.360054040	7.153390077	120.670345570	0.141798616	4.522580935	4.160774460	15029.148283000	0.001882178	0.000843735	15029.449366000	1624.410319900	859.290377570	29328.410268000
291.892874730	13.526968532	228.186069780	0.268139357	8.552142317	7.867970931	28419.925894000	0.003559175	0.001595492	28420.495239000	3071.738999800	1624.907040200	55459.646198000

8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584
4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	262.487181440	113.092444360	1173.571699400
8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	195.880573770	172.240528020	2025.731615400

NOXLBD	ROGLBD	COLBD	SOXLBD	PM10LBD	PM25LBD	CO2LBD	CH4LBD	N2OLBD	CO2ELBD	TOGLB	PMLB	NOXLB
23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	534.219746640	469.746894610	5524.722587300
30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	475.319699190	272.105099110	7207.120815600
25.011157709	1.264094305	18.644345238	0.021908799	0.800763562	0.736702477	2322.100163800	0.000290809	0.000130362	2322.146683200	353.529422070	187.378673530	5852.610903800
180.329642530	8.356878880	140.971965940	0.165654864	5.283461504	4.860784584	17557.657350000	0.002198836	0.000985685	17558.009088000	2337.169425000	1236.329991900	42197.136353000
177.812182430	8.240214149	139.003951720	0.163342268	5.209702673	4.792926459	17312.546777000	0.002168140	0.000971925	17312.893605000	2304.541784200	1219.070425500	41608.050687000
301.300225660	13.962926211	235.540228170	0.276781161	8.827767421	8.121546027	29335.865403000	0.003673882	0.001646913	29336.453098000	3905.013425700	2065.697576500	70504.252804000

8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584
4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	325.037318300	140.042133230	1453.231338400
8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	242.558497730	213.285079380	2508.459149200
23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	661.523175620	581.686580140	6841.252225200
30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	589.071422070	337.224268130	8931.901865500
25.011157709	1.264094305	18.644345238	0.021908799	0.800763562	0.736702477	2322.100163800	0.000290809	0.000130362	2322.146683200	438.134753850	232.221433010	7253.235735500
180.329642530	8.356878880	140.971965940	0.165654864	5.283461504	4.860784584	17557.657350000	0.002198836	0.000985685	17558.009088000	2896.492022400	1532.203836100	52295.596335000
177.812182430	8.240214149	139.003951720	0.163342268	5.209702673	4.792926459	17312.546777000	0.002168140	0.000971925	17312.893605000	2856.056057400	1510.813775200	51565.532903000
301.300225660	13.962926211	235.540228170	0.276781161	8.827767421	8.121546027	29335.865403000	0.003673882	0.001646913	29336.453098000	4839.546553300	2560.052552000	87377.065441000

8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584
4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	402.108022640	173.247999870	1797.811965100
8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	300.072368320	263.857830170	3103.248432000
23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	818.379186340	719.612264090	8463.404814600
30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	729.229794910	417.460387100	11057.078516000
25.011157709	1.264094305	18.644345238	0.021908799	0.800763562	0.736702477	2322.100163800	0.000290809	0.000130362	2322.146683200	542.380609080	287.474118790	8979.005617400
180.329642530	8.356878880	140.971965940	0.165654864	5.283461504	4.860784584	17557.657350000	0.002198836	0.000985685	17558.009088000	3585.657365700	1896.762679900	64738.341670000
177.812182430	8.240214149	139.003951720	0.163342268	5.209702673	4.792926459	17312.546777000	0.002168140	0.000971925	17312.893605000	3535.600429600	1870.283259700	63834.573491000
301.300225660	13.962926211	235.540228170	0.276781161	8.827767421	8.121546027	29335.865403000	0.003673882	0.001646913	29336.453098000	5991.024871100	3169.168504100	108166.781010000

8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584

NOXLBD	ROGLBD	COLBD	SOXLBD	PM10LBD	PM25LBD	CO2LBD	CH4LBD	N2OLBD	CO2ELBD	TOGLB	PMLB	NOXLB
4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	497.050194650	214.153777620	2222.295345700
8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	370.922788620	326.157595620	3835.959867400
23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	1011.607605300	889.520715330	10461.708729000
30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	901.888660000	516.301982930	13675.049753000
25.011157709	1.264094305	18.644345238	0.021908799	0.800763562	0.736702477	2322.100163800	0.000290809	0.000130362	2322.146683200	670.799416240	355.539021570	11104.954023000
180.329642530	8.356878880	140.971965940	0.165654864	5.283461504	4.860784584	17557.657350000	0.002198836	0.000985685	17558.009088000	4434.629165400	2345.856907700	80066.361285000
177.812182430	8.240214149	139.003951720	0.163342268	5.209702673	4.792926459	17312.546777000	0.002168140	0.000971925	17312.893605000	4372.720308500	2313.107986900	78948.608997000
301.300225660	13.962926211	235.540228170	0.276781161	8.827767421	8.121546027	29335.865403000	0.003673882	0.001646913	29336.453098000	7409.512654000	3919.528734900	133777.300190000

8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584
4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	614.331701250	264.684444250	2746.657168800
8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	458.443896050	403.116129420	4741.073993400
23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	1250.301534700	1099.407625700	12930.201800000
30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	1115.173140400	638.400424830	16909.014221000
25.011157709	1.264094305	18.644345238	0.021908799	0.800763562	0.736702477	2322.100163800	0.000290809	0.000130362	2322.146683200	829.434413320	439.619195590	13731.125582000
180.329642530	8.356878880	140.971965940	0.165654864	5.283461504	4.860784584	17557.657350000	0.002198836	0.000985685	17558.009088000	5483.359035500	2900.620365600	99000.973751000
177.812182430	8.240214149	139.003951720	0.163342268	5.209702673	4.792926459	17312.546777000	0.002168140	0.000971925	17312.893605000	5406.809570700	2860.126767600	97618.888151000
301.300225660	13.962926211	235.540228170	0.276781161	8.827767421	8.121546027	29335.865403000	0.003673882	0.001646913	29336.453098000	9161.762268100	4846.444314000	165413.823890000

ROGLB	COLB	SOXLB	PM10LB	PM25LB	CO2LB	CH4LB	N2OLB	CO2ELB	TOGTON	PMTON	NOXTON
1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
3.738264250	15.367460317	0.020075558	1.924977776	1.770979554	2127.796117400	0.000266475	0.000119454	2127.838744200	0.002233933	0.000962489	0.009987844
2.789672784	22.538941799	0.026485304	2.931753669	2.697213375	2807.161086900	0.000351555	0.000157594	2807.217323700	0.001667069	0.001465877	0.017240269
7.608198502	61.469841270	0.072232646	7.995691823	7.356036477	7655.893873500	0.000958787	0.000429801	7656.047246400	0.004546551	0.003997846	0.047018916
5.098717850	88.747083333	0.104285883	3.488526912	3.209444759	11053.196780000	0.001384249	0.000620525	11053.418212000	0.003046921	0.001744263	0.046199492
4.998983470	41.949776786	0.049294798	4.221473949	3.883756033	5224.725368600	0.000654319	0.000293316	5224.830037200	0.002987321	0.002110737	0.035538494
8.101337735	141.386284720	0.166141726	5.054747428	4.650367634	17609.259576000	0.002205299	0.000988582	17609.612347000	0.004841244	0.002527374	0.081424537
7.869870943	137.346676590	0.161394819	4.910326073	4.517499987	17106.137874000	0.002142290	0.000960337	17106.480566000	0.004702923	0.002455163	0.079098122
7.549378461	131.753373020	0.154822180	4.710358043	4.333529399	16409.507824000	0.002055048	0.000921228	16409.836561000	0.004511401	0.002355179	0.075876932

Construction Emissions	0.008907161
% of total	2.22%
Industrial Emissions	0.120446521
% of total	30.01%
Oilfield Emissions	0.271938085
% of total	67.77%

1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
4.672830313	19.209325397	0.025094448	2.406222220	2.213724443	2659.745146800	0.000333094	0.000149318	2659.798430300	0.002792417	0.001203111	0.012484805
3.487090980	28.173677249	0.033106630	3.664692086	3.371516719	3508.951358700	0.000439444	0.000196992	3509.021654600	0.002083836	0.001832346	0.021550336
9.510248128	76.837301587	0.090290808	9.994614779	9.195045597	9569.867341800	0.001198484	0.000537251	9570.059058000	0.005683189	0.004997307	0.058773645
6.798290467	118.329444440	0.139047844	4.651369216	4.279259678	14737.595706000	0.001845666	0.000827367	14737.890949000	0.004062562	0.002325685	0.061599323
6.665311294	55.933035714	0.065726397	5.628631932	5.178341378	6966.300491500	0.000872426	0.000391087	6966.440049500	0.003983095	0.002814316	0.047384658
10.801783647	188.515046300	0.221522301	6.739663237	6.200490178	23479.012768000	0.002940398	0.001318110	23479.483130000	0.006454992	0.003369832	0.108566050
10.493161257	183.128902120	0.215193092	6.547101431	6.023333316	22808.183831000	0.002856387	0.001280449	22808.640755000	0.006270564	0.003273551	0.105464163
10.065837948	175.671164020	0.206429573	6.280477391	5.778039199	21879.343766000	0.002740064	0.001228304	21879.782082000	0.006015201	0.003140239	0.101169242

Construction Emissions	0.008907161
% of total	1.69%
Industrial Emissions	0.154408109
% of total	29.36%
Oilfield Emissions	0.362584113
% of total	68.95%

1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
5.607396376	23.051190476	0.030113338	2.887466665	2.656469331	3191.694176100	0.000399712	0.000179181	3191.758116300	0.003350900	0.001443733	0.014981766
4.184509176	33.808412698	0.039727956	4.397630503	4.045820063	4210.741630400	0.000527333	0.000236391	4210.825985500	0.002500603	0.002198815	0.025860404
11.412297753	92.204761905	0.108348970	11.993537735	11.034054716	11483.840810000	0.001438181	0.000644702	11484.070870000	0.006819827	0.005996769	0.070528373
8.497863084	147.911805560	0.173809805	5.814211519	5.349074598	18421.994633000	0.002307082	0.001034209	18422.363687000	0.005078202	0.002907106	0.076999154
8.331639117	69.916294643	0.082157996	7.035789915	6.472926722	8707.875614300	0.001090532	0.000488859	8708.050061900	0.004978869	0.003517895	0.059230823
13.502229558	235.643807870	0.276902876	8.424579047	7.750612723	29348.765959000	0.003675498	0.001647637	29349.353912000	0.008068740	0.004212290	0.135707562
13.116451571	228.911127650	0.268991366	8.183876788	7.529166645	28510.229789000	0.003570484	0.001600562	28510.800944000	0.007838205	0.004091938	0.131830203
12.582297435	219.588955030	0.258036966	7.850596738	7.222548999	27349.179707000	0.003425080	0.001535380	27349.727602000	0.007519002	0.003925298	0.126461553

Construction Emissions	0.008907161
% of total	1.37%
Industrial Emissions	0.188369697
% of total	28.96%
Oilfield Emissions	0.453230141

ROGLB	COLB	SOXLB	PM10LB	PM25LB	CO2LB	CH4LB	N2OLB	CO2ELB	TOGTON	PMTON	NOXTON
										% of total	69.67%
1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
6.541962438	26.893055556	0.035132227	3.368711109	3.099214220	3723.643205500	0.000466331	0.000209045	3723.717802400	0.003909384	0.001684356	0.017478727
4.881927372	39.443148148	0.046349281	5.130568920	4.720123406	4912.531902100	0.000615222	0.000275789	4912.630316400	0.002917370	0.002565284	0.030170471
13.314347379	107.572222220	0.126407131	13.992460691	12.873063835	13397.814279000	0.001677878	0.000752152	13398.082681000	0.007956464	0.006996230	0.082283102
10.197435700	177.494166670	0.208571766	6.977053823	6.418889517	22106.393560000	0.002768498	0.001241051	22106.836424000	0.006093842	0.003488527	0.092398985
9.997966941	83.899553571	0.098589596	8.442947898	7.767512066	10449.450737000	0.001308639	0.000586631	10449.660074000	0.005974643	0.004221474	0.071076988
16.202675470	282.772569440	0.332283452	10.109494856	9.300735268	35218.519151000	0.004410598	0.001977164	35219.224695000	0.009682488	0.005054747	0.162849075
15.739741885	274.693353170	0.322789639	9.820652146	9.034999974	34212.275747000	0.004284581	0.001920674	34212.961132000	0.009405846	0.004910326	0.158196244
15.098756922	263.506746030	0.309644359	9.420716086	8.667058799	32819.015649000	0.004110095	0.001842457	32819.673122000	0.009022802	0.004710358	0.151753863
										Construction Emissions	0.008907161
										% of total	1.15%
										Industrial Emissions	0.222331285
										% of total	28.68%
										Oilfield Emissions	0.543876170
										% of total	70.17%
1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
8.411094564	34.576785714	0.045170006	4.331199997	3.984703997	4787.541264200	0.000599569	0.000268772	4787.637174500	0.005026350	0.002165600	0.022472650
6.276763764	50.712619048	0.059591933	6.596445754	6.068730094	6316.112445600	0.000791000	0.000354586	6316.238978300	0.003750905	0.003298223	0.038790605
17.118446630	138.307142860	0.162523454	17.990306602	16.551082074	17225.761215000	0.002157271	0.000967053	17226.106304000	0.010229740	0.008995153	0.105792560
13.596580934	236.658888890	0.278095689	9.302738431	8.558519357	29475.191413000	0.003691331	0.001654735	29475.781899000	0.008125123	0.004651369	0.123198646
13.330622588	111.866071430	0.131452794	11.257263864	10.356682755	13932.600983000	0.001744852	0.000782175	13932.880099000	0.007966190	0.005628632	0.094769317
21.603567294	377.030092590	0.443044602	13.479326475	12.400980357	46958.025535000	0.005880797	0.002636219	46958.966260000	0.012909984	0.006739663	0.217132100
20.986322514	366.257804230	0.430386185	13.094202861	12.046666632	45616.367663000	0.005712774	0.002560899	45617.281510000	0.012541127	0.006547101	0.210928326
20.131675896	351.342328040	0.412859146	12.560954781	11.556078399	43758.687532000	0.005480127	0.002456609	43759.564163000	0.012030403	0.006280477	0.202338484
										Construction Emissions	0.008907161
										% of total	0.87%
										Industrial Emissions	0.290254461
										% of total	28.34%
										Oilfield Emissions	0.725168227
										% of total	70.79%
1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
10.280226689	42.260515873	0.055207786	5.293688885	4.870193774	5851.439322900	0.000732806	0.000328499	5851.556546600	0.006143317	0.002646844	0.027466572
7.671600157	61.982089947	0.072834585	8.062322588	7.417336781	7719.692989100	0.000966777	0.000433383	7719.847640100	0.004584439	0.004031161	0.047410740
20.922545881	169.042063490	0.198639778	21.988152514	20.229100313	21053.708152000	0.002636665	0.001181953	21054.129928000	0.012503015	0.010994076	0.129302018
16.995726167	295.823611110	0.347619611	11.628423039	10.698149196	36843.989266000	0.004614164	0.002068418	36844.727373000	0.010156404	0.005814212	0.153998308
17.774163450	149.154761900	0.175270392	15.009685153	13.808910340	18576.801311000	0.002326469	0.001042900	18577.173465000	0.010621587	0.007504843	0.126359089
61.156879973	1031.653769800	1.212286878	38.665155458	35.571943021	128489.542400000	0.016091411	0.007213391	128492.116470000	0.036546480	0.019332578	0.659839544
60.235842624	1016.116815500	1.194029546	38.082848900	35.036220988	126554.458930000	0.015849071	0.007104756	126556.994230000	0.035996081	0.019041424	0.649902202
70.305850973	1185.987516500	1.393643048	44.449400602	40.893448554	147711.371530000	0.018498661	0.008292503	147714.330680000	0.042013775	0.022224700	0.758550480
										Construction Emissions	0.008907161
										% of total	0.35%
										Industrial Emissions	0.358177638

ROGLB	COLB	SOXLB	PM10LB	PM25LB	CO2LB	CH4LB	N2OLB	CO2ELB	TOGTON	PMTON	NOXTON
										% of total	13.98%
										Oilfield Emissions	2.194651315
										% of total	85.67%
1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
12.149358814	49.944246032	0.065245565	6.256177773	5.755683551	6915.337381600	0.000866044	0.000388226	6915.475918700	0.007260284	0.003128089	0.032460494
9.066436549	73.251560847	0.086077237	9.528199423	8.765943469	9123.273532500	0.001142555	0.000512180	9123.456301900	0.005417973	0.004764100	0.056030874
24.726645133	199.776984130	0.234756101	25.985998425	23.907118551	24881.655089000	0.003116059	0.001396854	24882.153551000	0.014776291	0.012992999	0.152811476
20.394871401	354.988333330	0.417143533	13.954107647	12.837779035	44212.787119000	0.005536997	0.002482102	44213.672848000	0.012187685	0.006977054	0.184797970
21.328996140	178.985714290	0.210324470	18.011622183	16.570692408	22292.161573000	0.002791763	0.001251480	22292.608159000	0.012745904	0.009005811	0.151630907
73.388255968	1237.984523800	1.454744254	46.398186550	42.686331626	154187.450880000	0.019309694	0.008656070	154190.539760000	0.043855776	0.023199093	0.791807453
72.283011149	1219.340178600	1.432835455	45.699418680	42.043465185	151865.350710000	0.019018885	0.008525707	151868.393080000	0.043195298	0.022849709	0.779882642
84.367021168	1423.185019800	1.672371657	53.339280722	49.072138264	177253.645840000	0.022198393	0.009951004	177257.196820000	0.050416530	0.026669640	0.910260576
										Construction Emissions	0.008907161
										% of total	0.29%
										Industrial Emissions	0.426100814
										% of total	13.89%
										Oilfield Emissions	2.633581578
										% of total	85.82%
1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
14.953057002	61.469841270	0.080302234	7.699911105	7.083918217	8511.184469700	0.001065900	0.000477817	8511.354976900	0.008935734	0.003849956	0.039951377
11.158691137	90.155767196	0.105941215	11.727014674	10.788853500	11228.644348000	0.001406221	0.000630375	11228.869295000	0.006668275	0.005863507	0.068961076
30.432794009	245.879365080	0.288930586	31.982767293	29.424145909	30623.575494000	0.003835149	0.001719205	30624.188985000	0.018186204	0.015991384	0.188075663
25.493589251	443.735416670	0.521429416	17.442634558	16.047223794	55265.983899000	0.006921246	0.003102627	55267.091060000	0.015234606	0.008721317	0.230997462
26.661245175	223.732142860	0.262905588	22.514527729	20.713365511	27865.201966000	0.003489704	0.001564350	27865.760198000	0.015932380	0.011257264	0.189538633
91.735319960	1547.480654800	1.818430317	57.997733187	53.357914532	192734.313600000	0.024137117	0.010820087	192738.174700000	0.054819720	0.028998867	0.989759316
90.353763936	1524.175223200	1.791044318	57.124273350	52.554331482	189831.688390000	0.023773606	0.010657134	189835.491350000	0.053994122	0.028562137	0.974853303
105.458776460	1778.981274800	2.090464571	66.674100903	61.340172831	221567.057300000	0.027747991	0.012438755	221571.496020000	0.063020662	0.033337050	1.137825720
										Construction Emissions	0.008907161
										% of total	0.23%
										Industrial Emissions	0.527985578
										% of total	13.79%
										Oilfield Emissions	3.291976972
										% of total	85.98%
1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
17.756755190	72.995436508	0.095358902	9.143644438	8.412152883	10107.031558000	0.001265756	0.000567408	10107.234035000	0.010611184	0.004571822	0.047442260
13.250945725	107.059973540	0.125805192	13.925829925	12.811763531	13334.015163000	0.001669888	0.000748570	13334.282287000	0.007918576	0.006962915	0.081891278
36.138942886	291.981746030	0.343105070	37.979536160	34.941173267	36365.495899000	0.004554240	0.002041556	36366.224420000	0.021596117	0.018989768	0.223339849
30.592307101	532.482500000	0.625715299	20.931161470	19.256668552	66319.180679000	0.008305495	0.003723153	66320.509272000	0.018281527	0.010465581	0.277196954
31.993494211	268.478571430	0.315486706	27.017433275	24.856038613	33438.242359000	0.004187644	0.001877220	33438.912238000	0.019118856	0.013508717	0.227446360
110.082383950	1856.976785700	2.182116380	69.597279824	64.029497438	231281.176320000	0.028964541	0.012984104	231285.809640000	0.065783664	0.034798640	1.187711180
108.424516720	1829.010267900	2.149253182	68.549128020	63.065197778	227798.026070000	0.028528328	0.012788561	227802.589620000	0.064792947	0.034274564	1.169823963
126.550531750	2134.777529800	2.508557486	80.008921083	73.608207397	265880.468760000	0.033297589	0.014926506	265885.795220000	0.075624795	0.040004461	1.365390864
										Construction Emissions	0.008907161

ROGLB	COLB	SOXLB	PM10LB	PM25LB	CO2LB	CH4LB	N2OLB	CO2ELB	TOGTON	PMTON	NOXTON
										% of total	0.19%
										Industrial Emissions	0.629870341
										% of total	13.73%
										Oilfield Emissions	3.950372367
										% of total	86.08%
1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
22.429585503	92.204761905	0.120453350	11.549866658	10.625877326	12766.776705000	0.001598850	0.000716726	12767.032465000	0.013403601	0.005774933	0.059927066
16.738036705	135.233650790	0.158911822	17.590522011	16.183280250	16842.966522000	0.002109332	0.000945563	16843.303942000	0.010002412	0.008795261	0.103441614
45.649191014	368.819047620	0.433395878	47.974150939	44.136218864	45935.363241000	0.005752724	0.002578807	45936.283478000	0.027279306	0.023987075	0.282113494
39.090170185	680.394305560	0.799525105	26.745372989	24.605743150	84741.175312000	0.010612577	0.004757362	84742.872958000	0.023359729	0.013372686	0.354196108
40.880575936	343.055952380	0.403121902	34.522275851	31.760493783	42726.643014000	0.005350879	0.002398670	42727.498971000	0.024429650	0.017261138	0.290625905
140.660823940	2372.803670600	2.788259819	88.929857553	81.815468949	295525.947520000	0.037010246	0.016590800	295531.867880000	0.084056904	0.044464929	1.517630952
138.542438040	2337.068675600	2.746267955	87.590552470	80.583308272	291075.255540000	0.036452863	0.016340939	291081.086740000	0.082790987	0.043795276	1.494775064
161.703457240	2727.771288000	3.205379009	102.233621380	94.054931673	339736.154520000	0.042546920	0.019072757	339742.960560000	0.096631682	0.051116811	1.744666104
										Construction Emissions	0.008907161
										% of total	0.15%
										Industrial Emissions	0.799678282
										% of total	13.66%
										Oilfield Emissions	5.047698025
										% of total	86.19%
1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
27.102415816	111.414087300	0.145547798	13.956088879	12.839601768	15426.521851000	0.001931943	0.000866044	15426.830896000	0.016196018	0.006978044	0.072411871
20.225127685	163.407328040	0.192018452	21.255214097	19.554796969	20351.917880000	0.002548776	0.001142555	20352.325597000	0.012086248	0.010627607	0.124991951
55.159439142	445.656349210	0.523686686	57.968765718	53.331264461	55505.230583000	0.006951208	0.003116059	55506.342536000	0.032962495	0.028984383	0.340887138
47.588033268	828.306111110	0.973334910	32.559584509	29.954817748	103163.169940000	0.012919659	0.005791571	103165.236640000	0.028437931	0.016279792	0.431195262
54.606179933	458.236574070	0.538469593	46.113088274	42.424041212	57072.061804000	0.007147430	0.003204020	57073.205147000	0.032631875	0.023056544	0.388203201
188.088107160	3172.853240700	3.728390728	118.914763250	109.401582190	395169.845660000	0.049489168	0.022184800	395177.762220000	0.112398773	0.059457382	2.029337844
165.393746880	2790.022685200	3.278530055	104.566729660	96.201391288	347489.388960000	0.043517897	0.019508023	347496.350320000	0.098836947	0.052283365	1.784481723
326.317392500	5504.639351900	6.468451189	206.307331490	189.802744970	685587.172810000	0.085859635	0.038488802	685600.907390000	0.195002625	0.103153666	3.520734211
										Construction Emissions	0.008907161
										% of total	0.10%
										Industrial Emissions	0.969486222
										% of total	11.14%
										Oilfield Emissions	7.722756979
										% of total	88.76%
1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
33.644378254	138.307142860	0.180680026	17.324799987	15.938815988	19150.165057000	0.002398274	0.001075089	19150.548698000	0.020105401	0.008662400	0.089890598
25.107055058	202.850476190	0.238367733	26.385783017	24.274920375	25264.449782000	0.003163998	0.001418344	25264.955913000	0.015003618	0.013192892	0.155162422
68.473786521	553.228571430	0.650093818	71.961226409	66.204328296	68903.044861000	0.008629085	0.003868211	68904.425217000	0.040918959	0.035980613	0.423170241
59.485041585	1035.382638900	1.216668638	40.699480636	37.443522185	128953.962430000	0.016149573	0.007239464	128956.545810000	0.035547413	0.020349740	0.538994078
68.257724917	572.795717590	0.673086992	57.641360343	53.030051516	71340.077255000	0.008934288	0.004005026	71341.506433000	0.040789844	0.028820680	0.485254001
235.110133950	3966.066550900	4.660488410	148.643454060	136.751977740	493962.307070000	0.061861460	0.027730999	493972.202770000	0.140498467	0.074321727	2.536672304
206.742183600	3487.528356500	4.098162569	130.708412080	120.251739110	434361.736200000	0.054397372	0.024385029	434370.437900000	0.123546184	0.065354206	2.230602154
407.896740620	6880.799189800	8.085563987	257.884164370	237.253431220	856983.966020000	0.107324544	0.048111003	857001.134240000	0.243753281	0.128942082	4.400917764

ROGLB	COLB	SOXLB	PM10LB	PM25LB	CO2LB	CH4LB	N2OLB	CO2ELB	TOGTON	PMTON	NOXTON
										Construction Emissions	0.008907161
										% of total	0.08%
										Industrial Emissions	1.207217339
										% of total	11.11%
										Oilfield Emissions	9.653446223
										% of total	88.81%
1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
41.120906755	169.042063490	0.220831142	21.174755540	19.480775097	23405.757292000	0.002931224	0.001313997	23406.226186000	0.024573268	0.010587378	0.109866287
30.686400626	247.928359790	0.291338340	32.249290354	29.669347125	30878.771956000	0.003867109	0.001733531	30879.390560000	0.018337756	0.016124645	0.189642960
83.690183525	676.168253970	0.794559110	87.952610055	80.916401251	84214.832608000	0.010546660	0.004727813	84216.519710000	0.050012061	0.043976305	0.517208072
73.081622519	1272.041527800	1.494764326	50.002219067	46.002041542	158429.153840000	0.019840904	0.008894198	158432.327700000	0.043672536	0.025001110	0.662192725
83.859490612	703.720453040	0.826935447	70.816528421	65.151206148	87646.380628000	0.010976411	0.004920460	87648.136475000	0.050113237	0.035408264	0.596169202
288.849593140	4872.596048300	5.725742903	182.619100710	168.009572650	606867.977260000	0.076001223	0.034069514	606880.134830000	0.172612402	0.091309550	3.116483117
253.997539860	4284.677695100	5.034885441	160.584620550	147.737850910	533644.418760000	0.066831057	0.029958750	533655.109420000	0.151785311	0.080292310	2.740454075
501.130281340	8453.553290300	9.933692898	316.829116220	291.482786920	1052866.015400000	0.131855869	0.059107803	1052887.107800000	0.299468317	0.158414558	5.406841824
										Construction Emissions	0.008907161
										% of total	0.07%
										Industrial Emissions	1.478910044
										% of total	11.08%
										Oilfield Emissions	11.859948218
										% of total	88.85%
1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
50.466567381	207.460714290	0.271020038	25.987199981	23.908223982	28725.247585000	0.003597412	0.001612633	28725.823047000	0.030158102	0.012993600	0.134835897
37.660582586	304.275714290	0.357551600	39.578674525	36.412380563	37896.674674000	0.004745997	0.002127516	37897.433870000	0.022505428	0.019789337	0.232743632
102.710679780	829.842857140	0.975140726	107.941839610	99.306492444	103354.567290000	0.012943628	0.005802316	103356.637830000	0.061378439	0.053970920	0.634755361
90.077348686	1567.865138900	1.842383937	61.630642106	56.700190738	195273.143110000	0.024455068	0.010962617	195277.055080000	0.053828940	0.030815321	0.816191033
103.361697730	867.376372350	1.019246016	87.285488519	80.302649438	108029.259840000	0.013529064	0.006064753	108031.424030000	0.061767478	0.043642744	0.734813202
356.023917130	6005.757920000	7.057311020	225.088659010	207.081566290	748000.064990000	0.093675925	0.041992656	748015.049910000	0.212754821	0.112544330	3.841246632
313.066735170	5281.114368400	6.205789032	197.929881140	182.095490650	657747.771960000	0.082373163	0.036925901	657760.948830000	0.187084221	0.098964941	3.377768977
617.672207230	10419.495916000	12.243854037	390.510306040	359.269481560	1297718.577100000	0.162520024	0.072853804	1297744.574700000	0.369112111	0.195255153	6.664246900
										Construction Emissions	0.008907161
										% of total	0.05%
										Industrial Emissions	1.818525923
										% of total	11.06%
										Oilfield Emissions	14.618075711
										% of total	88.89%
1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
61.681360132	253.563095240	0.331246714	31.762133310	29.221162645	35108.635937000	0.004396836	0.001970996	35109.339280000	0.036859902	0.015881067	0.164799430
46.029600939	371.892539680	0.437007511	48.373935530	44.504020688	46318.157934000	0.005800663	0.002600297	46319.085841000	0.027506634	0.024186968	0.284464440
125.535275290	1014.252381000	1.191838666	131.928915080	121.374601880	126322.248910000	0.015819990	0.007091720	126324.779570000	0.075018092	0.065964458	0.775812108
110.472220090	1922.853472200	2.259527470	75.584749753	69.537969773	239485.930230000	0.029992064	0.013444719	239490.727930000	0.066016625	0.037792375	1.000989002
126.764346270	1063.763475500	1.250018699	107.048240640	98.484381386	132488.714900000	0.016592249	0.007437905	132491.369090000	0.075752567	0.053524120	0.901186003
436.633105910	7365.552166000	8.655192761	276.052128980	253.967958660	917358.570280000	0.114885569	0.051500427	917376.948010000	0.260925724	0.138026064	4.710962851

ROGLB	COLB	SOXLB	PM10LB	PM25LB	CO2LB	CH4LB	N2OLB	CO2ELB	TOGTON	PMTON	NOXTON
383.949769550	6476.838376300	7.610873342	242.744193850	223.324658350	806671.795800000	0.101023690	0.045286482	806687.956110000	0.229442912	0.121372097	4.142546858
757.522518300	12778.627067000	15.016047404	478.927733820	440.613515120	1591541.651200000	0.199317011	0.089349005	1591573.535000000	0.452684665	0.239463867	8.173132990

Construction Emissions	0.008907161
% of total	0.04%
Industrial Emissions	2.226064980
% of total	11.04%
Oilfield Emissions	17.927828702
% of total	88.92%

1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
76.634417134	315.032936510	0.411548947	39.462044415	36.305080862	43619.820407000	0.005462736	0.002448813	43620.694257000	0.045795636	0.019731022	0.204750807
57.188292076	462.048306880	0.542948725	60.100950204	55.292874188	57546.802282000	0.007206884	0.003230672	57547.955135000	0.034174909	0.030050475	0.353425516
155.968069300	1260.131746000	1.480769251	163.911682380	150.798747790	156945.824410000	0.019655139	0.008810924	156948.968550000	0.093204296	0.081955841	0.963887771
137.665381950	2396.171250000	2.815718847	94.190226615	86.655008486	298436.313050000	0.037374726	0.016754188	298442.291720000	0.082266871	0.047095113	1.247386295
102.391638730	1510.191964300	1.774612719	64.861848530	59.672900648	188090.113270000	0.023555500	0.010559362	188093.881340000	0.061187785	0.032430924	1.012951887
602.303164000	10160.235937000	11.939200015	380.793550610	350.330066560	1265428.484300000	0.158476168	0.071041041	1265453.835000000	0.359927790	0.190396775	6.498425777
579.424596250	9774.297991100	11.485687876	366.329055700	337.022731250	1217361.010900000	0.152456430	0.068342537	1217385.398700000	0.346255884	0.183164528	6.251582189
1095.684451100	18483.071652000	21.719287889	692.723527650	637.305645440	2302013.997400000	0.288293145	0.129234858	2302060.114400000	0.654765418	0.346361764	11.821661426

Construction Emissions	0.008907161
% of total	0.03%
Industrial Emissions	2.769450389
% of total	9.76%
Oilfield Emissions	25.584621279
% of total	90.20%

1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
94.391172324	388.028373020	0.506907850	48.605688853	44.717233745	53726.851965000	0.006728492	0.003016221	53727.928292000	0.056406820	0.024302844	0.252193067
70.439237801	569.108280420	0.668753918	74.026780130	68.104637719	70880.817445000	0.008876772	0.003979243	70882.237423000	0.042093485	0.037013390	0.435316794
192.107012180	1552.113492100	1.823874322	201.891218540	185.739921050	193311.320300000	0.024209379	0.010852480	193315.192970000	0.114800414	0.100945609	1.187227620
169.957261670	2958.236111100	3.476196108	116.284230390	106.981491960	368439.892660000	0.046141638	0.020684182	368447.273730000	0.101564038	0.058142115	1.539983080
126.409430530	1864.434523800	2.190879900	80.076356210	73.670247713	232210.016380000	0.029080864	0.013036249	232214.668320000	0.075540475	0.040038178	1.250557885
743.584153090	12543.501157000	14.739753105	470.115494570	432.506255010	1562257.388000000	0.195649591	0.087704989	1562288.685200000	0.444355296	0.235057747	8.022747873
715.339007720	12067.034557000	14.179861575	452.258093460	416.077445980	1502914.828300000	0.188217814	0.084373503	1502944.936600000	0.427476400	0.226129047	7.718002702
1352.696853200	22818.606978000	26.813935665	855.214231670	786.797093130	2841992.589400000	0.355917464	0.159549208	2842049.523900000	0.808352368	0.427607116	14.594643736

Construction Emissions	0.008907161
% of total	0.03%
Industrial Emissions	3.414720561
% of total	9.75%
Oilfield Emissions	31.585952196
% of total	90.22%

1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
116.820757830	480.233134920	0.627361200	60.155555511	55.343111070	66493.628669000	0.008327342	0.003732946	66494.960757000	0.069810421	0.030077778	0.312120133
87.177274506	704.341931220	0.827665740	91.617302141	84.287917970	87723.783967000	0.010986104	0.004924805	87725.541365000	0.052095897	0.045808651	0.538758408
237.756203200	1920.932539700	2.257270200	249.865369480	229.876139920	239246.683550000	0.029962102	0.013431287	239251.476450000	0.142079720	0.124932685	1.469341114
210.747004470	3668.212777800	4.310483174	144.192445680	132.657050030	456865.466900000	0.057215631	0.025648386	456874.619430000	0.125939407	0.072096223	1.909579020

ROGLB	COLB	SOXLB	PM10LB	PM25LB	CO2LB	CH4LB	N2OLB	CO2ELB	TOGTON	PMTON	NOXTON
156.747693860	2311.898809500	2.716691076	99.294681700	91.351107164	287940.420310000	0.036060271	0.016164949	287946.188710000	0.093670189	0.049647341	1.550691778
922.044349830	15553.941435000	18.277293850	582.943213270	536.307756210	1937199.161100000	0.242605493	0.108754186	1937237.969600000	0.551000568	0.291471607	9.948207363
887.020369570	14963.122851000	17.583028353	560.800035890	515.936033020	1863614.387000000	0.233390090	0.104623144	1863651.721400000	0.530070736	0.280400018	9.570323351
1677.344098000	28295.072652000	33.249280225	1060.465647300	975.628395490	3524070.810800000	0.441337655	0.197841018	3524141.409700000	1.002356937	0.530232824	18.097358233

Construction Emissions	0.008907161
% of total	0.02%
Industrial Emissions	4.229798675
% of total	9.74%
Oilfield Emissions	39.166580725
% of total	90.23%

1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
143.923173640	591.647222220	0.772908998	74.111644390	68.182712839	81920.150521000	0.010259285	0.004598990	81921.791653000	0.086006438	0.037055822	0.384532004
107.402402190	867.749259260	1.019684192	112.872516240	103.842714940	108075.701850000	0.013534880	0.006067360	108077.866960000	0.064182145	0.056436258	0.663750359
292.915642340	2366.588888900	2.780956886	307.834135190	283.207404380	294751.914130000	0.036913310	0.016547346	294757.818990000	0.175042215	0.153917068	1.810228252
260.034610360	4526.101250000	5.318580045	177.914872490	163.681682700	563713.035770000	0.070596706	0.031646799	563724.328810000	0.155392979	0.088957436	2.356174113
193.406428720	2852.584821400	3.352046247	122.516825000	112.715479000	355281.325070000	0.044493722	0.019945462	355288.442530000	0.115576926	0.061258413	1.913353565
1137.683754200	19191.556771000	22.551822251	719.276706700	661.734570160	2390253.803600000	0.299343874	0.134188633	2390301.688300000	0.679863604	0.359638353	12.274804246
1094.468681800	18462.562872000	21.695188210	691.954882990	636.598492350	2299459.687200000	0.287973256	0.129091460	2299505.753000000	0.654038892	0.345977441	11.808544134
2069.626185400	34912.468676000	41.025321567	1308.477774400	1203.799552500	4348248.661800000	0.544553719	0.244110288	4348335.771600000	1.236779124	0.654238887	22.329804917

Construction Emissions	0.008907161
% of total	0.02%
Industrial Emissions	5.214684728
% of total	9.74%
Oilfield Emissions	48.326506862
% of total	90.25%

1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
178.502117960	733.796230160	0.958607914	91.917688821	84.564273716	101602.264610000	0.012724178	0.005703942	101604.300040000	0.106670323	0.045958844	0.476919563
133.206875440	1076.234470900	1.264673251	139.991237670	128.791938660	134041.941900000	0.016786767	0.007525103	134044.627210000	0.079602531	0.069995619	0.823222848
363.291478490	2935.184920600	3.449108866	381.794284560	351.250741790	365568.932460000	0.045782092	0.020523007	365576.256010000	0.217097812	0.190897142	2.245153222
322.918797180	5620.648611100	6.604772605	220.940037740	203.264834720	700035.796050000	0.087669111	0.039299946	700049.820090000	0.192971673	0.110470019	2.925967852
240.177918010	3542.425595200	4.162671810	152.145076800	139.973470650	441199.031130000	0.055253642	0.024768874	441207.869800000	0.143526902	0.076072538	2.376059982
1412.809890900	23832.652199000	28.005530900	893.219439690	821.761884520	2968289.037200000	0.371734222	0.166639479	2968348.501900000	0.844275063	0.446609720	15.243220959
1359.144114700	22927.365658000	26.941736993	859.290377570	790.547147370	2855538.173700000	0.357613847	0.160309656	2855595.379600000	0.812205160	0.429645189	14.664205134
2570.124021100	43355.353257000	50.946477764	1624.907040200	1494.914477000	5399785.919800000	0.676243181	0.303143495	5399894.095400000	1.535869500	0.812453520	27.729823099

Construction Emissions	0.008907161
% of total	0.01%
Industrial Emissions	6.471263485
% of total	9.73%
Oilfield Emissions	60.013309174
% of total	90.25%

1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
219.623024710	902.838293650	1.179439056	113.092444360	104.045048810	125008.021900000	0.015655403	0.007017939	125010.526220000	0.131243591	0.056546222	0.586785850
163.893276070	1324.162830700	1.556011591	172.240528020	158.461285780	164920.713860000	0.020653876	0.009258634	164924.017770000	0.097940287	0.086120264	1.012865808

ROGLB	COLB	SOXLB	PM10LB	PM25LB	CO2LB	CH4LB	N2OLB	CO2ELB	TOGTON	PMTON	NOXTON
446.981662010	3611.353174600	4.243667976	469.746894610	432.167143040	449783.765070000	0.056328752	0.025250820	449792.775720000	0.267109873	0.234873447	2.762361294
397.699992310	6922.272500000	8.134298893	272.105099110	250.336691180	862149.348830000	0.107971432	0.048400987	862166.620530000	0.237659850	0.136052550	3.603560408
295.798067450	4362.776785700	5.126658966	187.378673530	172.388379650	543371.438340000	0.068049222	0.030504824	543382.323860000	0.176764711	0.093689337	2.926305452
1955.509657900	32987.440030000	38.763238071	1236.329991900	1137.423592500	4108491.819900000	0.514527727	0.230650360	4108574.126600000	1.168584712	0.618164996	21.098568176
1928.210110900	32526.924702000	38.222090735	1219.070425500	1121.544791500	4051135.945800000	0.507344754	0.227430407	4051217.103500000	1.152270892	0.609535213	20.804025344
3267.324733300	55116.413393000	64.766791604	2065.697576500	1900.441770400	6864592.504300000	0.859688502	0.385377604	6864730.024800000	1.952506713	1.032848788	35.252126402

Construction Emissions	0.008907161
% of total	0.01%
Industrial Emissions	7.965573360
% of total	9.05%
Oilfield Emissions	80.081025374
% of total	90.94%

1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
271.958724220	1117.982738100	1.460496874	140.042133230	128.838762570	154797.167540000	0.019386052	0.008690299	154800.268640000	0.162518659	0.070021067	0.726615669
202.948695050	1639.708015900	1.926805843	213.285079380	196.222273030	204220.969070000	0.025575651	0.011464947	204225.060300000	0.121279249	0.106642540	1.254229575
553.496441040	4471.930952400	5.254925026	581.686580140	535.151653730	556966.279290000	0.069751774	0.031268037	556977.437170000	0.330761588	0.290843290	3.420626113
492.876058850	8578.884722200	10.080968713	337.224268130	310.246326680	1068475.688700000	0.133810749	0.059984129	1068497.093800000	0.294535711	0.168612134	4.465950933
366.587348550	5406.860119000	6.353551710	232.221433010	213.643718370	673409.047510000	0.084334506	0.037805123	673422.538120000	0.219067377	0.116110717	3.626617868
2423.494875200	40881.870122000	48.039910430	1532.203836100	1409.627529200	5091720.631400000	0.637662568	0.285848737	5091822.635500000	1.448246011	0.766101918	26.147798167
2389.662103200	40311.145999000	47.369257749	1510.813775200	1389.948673200	5020638.565300000	0.628760592	0.281858197	5020739.145300000	1.428028029	0.755406888	25.782766452
4049.248601100	68306.666171000	80.266536603	2560.052552000	2355.248347900	8507400.966900000	1.065425922	0.477604723	8507571.398300000	2.419773277	1.280026276	43.688532721

Construction Emissions	0.008907161
% of total	0.01%
Industrial Emissions	9.867422290
% of total	9.04%
Oilfield Emissions	99.245715208
% of total	90.95%

1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
336.443782540	1383.071428600	1.806800256	173.247999870	159.388159880	191501.650570000	0.023982744	0.010750885	191505.486980000	0.201054011	0.086624000	0.898905983
251.070550580	2028.504761900	2.383677331	263.857830170	242.749203750	252644.497820000	0.031639980	0.014183439	252649.559130000	0.150036184	0.131928915	1.551624216
684.737865210	5532.285714300	6.500938176	719.612264090	662.043282960	689030.448610000	0.086290855	0.038682107	689044.252170000	0.409189593	0.359806132	4.231702407
610.146569400	10620.067639000	12.479544028	417.460387100	384.063556130	1322699.214700000	0.165648479	0.074256215	1322725.712700000	0.364614897	0.208730194	5.528539258
453.809855610	6693.319940500	7.865258841	287.474118790	264.476189290	833633.958810000	0.104400302	0.046800135	833650.659260000	0.271190305	0.143737059	4.489502809
3000.119517900	50608.935772000	59.470096014	1896.762679900	1745.021665500	6303198.988600000	0.789382282	0.353861023	6303325.262500000	1.792828683	0.948381340	32.369170835
2958.236879500	49902.418667000	58.639874248	1870.283259700	1720.660598900	6215204.292900000	0.778362250	0.348921009	6215328.804100000	1.767800215	0.935141630	31.917286745
5012.690509700	84558.941915000	99.364436691	3169.168504100	2915.635023800	10531575.680000000	1.318923813	0.591241709	10531786.662000000	2.995512436	1.584584252	54.083390506

Construction Emissions	0.008907161
% of total	0.01%
Industrial Emissions	12.210771864
% of total	9.04%
Oilfield Emissions	122.859350895
% of total	90.95%

1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161

ROGLB	COLB	SOXLB	PM10LB	PM25LB	CO2LB	CH4LB	N2OLB	CO2ELB	TOGTON	PMTON	NOXTON
415.881897860	1709.629960300	2.233405872	214.153777620	197.021475410	236717.318060000	0.029645337	0.013289289	236722.060290000	0.248525097	0.107076889	1.111147673
310.351097240	2507.457275100	2.946490034	326.157595620	300.064987970	312296.670920000	0.039110531	0.017532307	312302.927260000	0.185461394	0.163078798	1.917979934
846.412083380	6838.519841300	8.035881912	889.520715330	818.359058110	851718.193420000	0.106665084	0.047815383	851735.256160000	0.505803803	0.444760358	5.230854365
754.610241830	13134.568333000	15.434310720	516.301982930	474.997824290	1635873.123400000	0.204868871	0.091837770	1635905.895400000	0.450944330	0.258150991	6.837524876
561.257871570	8278.089285700	9.727506756	355.539021570	327.095899850	1031012.472700000	0.129119036	0.057880947	1031033.127300000	0.335399708	0.177769511	5.552477011
3710.454222700	62591.552877000	73.550759416	2345.856907700	2158.188355100	7795599.863300000	0.976283380	0.437644274	7795756.035000000	2.217314583	1.172928454	40.033180643
3658.655082200	61717.754563000	72.523967036	2313.107986900	2128.059347900	7686770.769000000	0.962654148	0.431534618	7686924.760400000	2.186360154	1.156553993	39.474304498
6199.539237600	104579.861310000	122.890835350	3919.528734900	3605.966436100	13025124.239000000	1.631203825	0.731229301	13025385.175000000	3.704756327	1.959764367	66.888650096

Construction Emissions	0.008907161
% of total	0.01%
Industrial Emissions	15.097506848
% of total	9.04%
Oilfield Emissions	151.948612248
% of total	90.96%

1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
514.011334440	2113.025793700	2.760389280	264.684444250	243.509688710	292571.966150000	0.036640304	0.016424964	292577.827330000	0.307165851	0.132342222	1.373328584
383.580007820	3099.104497400	3.641729256	403.116129420	370.866839070	385984.649450000	0.048338858	0.021669143	385992.382000000	0.229221948	0.201558065	2.370536997
1046.127294100	8452.103174600	9.931988880	1099.407625700	1011.455015600	1052685.407600000	0.131833250	0.059097664	1052706.496400000	0.625150767	0.549703813	6.465100900
933.065366580	16240.716250000	19.084316633	638.400424830	587.328390850	2022735.010700000	0.253317590	0.113556161	2022775.532800000	0.557586570	0.319200212	8.454507111
693.987773630	10235.745536000	12.027930651	439.619195590	404.449659940	1274832.989900000	0.159653943	0.071569009	1274858.529100000	0.414717207	0.219809598	6.865562791
4587.926505000	77393.609301000	90.944520089	2900.620365600	2668.570736400	9639153.885100000	1.207161206	0.541141230	9639346.989200000	2.741679518	1.450310183	49.500486876
4523.877567800	76313.169494000	89.674905187	2860.126767600	2631.316626200	9504588.180600000	1.190308845	0.533586724	9504778.588900000	2.703404785	1.430063384	48.809444076
7665.646489700	129311.585270000	151.952857220	4846.444314000	4458.728768900	16105390.106000000	2.016961486	0.904155149	16105712.751000000	4.580881134	2.423222157	82.706911943

Construction Emissions	0.008907161
% of total	0.00%
Industrial Emissions	18.663473592
% of total	9.04%
Oilfield Emissions	187.882405686
% of total	90.96%

ROGTON	COTON	SOXTON	PM10TON	PM25TON	CO2TONNE	CH4TONNE	N2OTONNE	CO2ETONNE
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.001869132	0.007683730	0.000010038	0.000962489	0.000885490	0.965168319	0.000000121	0.000000054	0.965187654
0.001394836	0.011269471	0.000013243	0.001465877	0.001348607	1.273328269	0.000000159	0.000000071	1.273353778
0.003804099	0.030734921	0.000036116	0.003997846	0.003678018	3.472713461	0.000000435	0.000000195	3.472783031
0.002549359	0.044373542	0.000052143	0.001744263	0.001604722	5.013730059	0.000000628	0.000000281	5.013830501
0.002499492	0.020974888	0.000024647	0.002110737	0.001941878	2.369935427	0.000000297	0.000000133	2.369982905
0.004050669	0.070693142	0.000083071	0.002527374	0.002325184	7.987560144	0.000001000	0.000000448	7.987720161
0.003934935	0.068673338	0.000080697	0.002455163	0.002258750	7.759344139	0.000000972	0.000000436	7.759499585
0.003774689	0.065876687	0.000077411	0.002355179	0.002166765	7.443352749	0.000000932	0.000000418	7.443501864
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102				
2.13%	1.53%	1.52%	2.26%	2.26%				
0.009617426	0.094061664	0.000111540	0.008170475	0.007516837				
39.42%	28.92%	29.11%	45.33%	45.33%				
0.014259785	0.226218055	0.000265826	0.009448453	0.008692577				
58.45%	69.55%	69.37%	52.42%	52.42%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.002336415	0.009604663	0.000012547	0.001203111	0.001106862	1.206460399	0.000000151	0.000000068	1.206484568
0.001743545	0.014086839	0.000016553	0.001832346	0.001685758	1.591660336	0.000000199	0.000000089	1.591692223
0.004755124	0.038418651	0.000045145	0.004997307	0.004597523	4.340891826	0.000000544	0.000000244	4.340978789
0.003399145	0.059164722	0.000069524	0.002325685	0.002139630	6.684973412	0.000000837	0.000000375	6.685107335
0.003332656	0.027966518	0.000032863	0.002814316	0.002589171	3.159913903	0.000000396	0.000000177	3.159977206
0.005400892	0.094257523	0.000110761	0.003369832	0.003100245	10.650080191	0.000001334	0.000000598	10.650293548
0.005246581	0.091564451	0.000107597	0.003273551	0.003011667	10.345792186	0.000001296	0.000000581	10.345999446
0.005032919	0.087835582	0.000103215	0.003140239	0.002889020	9.924470332	0.000001243	0.000000557	9.924669152
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102				
1.63%	1.16%	1.16%	1.74%	1.74%				
0.012234229	0.121274875	0.000143769	0.010358449	0.009529773				
38.51%	28.34%	28.52%	44.34%	44.34%				
0.019013048	0.301624074	0.000354436	0.012597938	0.011590103				
59.85%	70.50%	70.32%	53.92%	53.92%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.002803698	0.011525595	0.000015057	0.001443733	0.001328235	1.447752478	0.000000181	0.000000081	1.447781482
0.002092255	0.016904206	0.000019864	0.002198815	0.002022910	1.909992404	0.000000239	0.000000107	1.910030667
0.005706149	0.046102381	0.000054174	0.005996769	0.005517027	5.209070192	0.000000652	0.000000292	5.209174546
0.004248932	0.073955903	0.000086905	0.002907106	0.002674537	8.356216766	0.000001046	0.000000469	8.356384168
0.004165820	0.034958147	0.000041079	0.003517895	0.003236463	3.949892379	0.000000495	0.000000222	3.949971508
0.006751115	0.117821904	0.000138451	0.004212290	0.003875306	13.312600239	0.000001667	0.000000747	13.312866935
0.006558226	0.114455564	0.000134496	0.004091938	0.003764583	12.932240232	0.000001620	0.000000726	12.932499308
0.006291149	0.109794478	0.000129018	0.003925298	0.003611275	12.405587915	0.000001554	0.000000696	12.405836440
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102				
1.33%	0.94%	0.93%	1.42%	1.42%				
0.014851034	0.148488085	0.000176000	0.012546423	0.011542709				
37.95%	27.99%	28.17%	43.72%	43.72%				
0.023766310	0.377030093	0.000443044	0.015747421	0.014487627				

ROGTON	COTON	SOXTON	PM10TON	PM25TON	CO2TONNE	CH4TONNE	N2OTONNE	CO2ETONNE
60.73%	71.07%	70.90%	54.87%	54.87%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.003270981	0.013446528	0.000017566	0.001684356	0.001549607	1.689044558	0.000000212	0.000000095	1.689078395
0.002440964	0.019721574	0.000023175	0.002565284	0.002360062	2.228324471	0.000000279	0.000000125	2.228369112
0.006657174	0.053786111	0.000063204	0.006996230	0.006436532	6.077248557	0.000000761	0.000000341	6.077370304
0.005098718	0.088747083	0.000104286	0.003488527	0.003209445	10.027460119	0.000001256	0.000000563	10.027661002
0.004998983	0.041949777	0.000049295	0.004221474	0.003883756	4.739870854	0.000000594	0.000000266	4.739965810
0.008101338	0.141386285	0.000166142	0.005054747	0.004650368	15.975120287	0.000002001	0.000000897	15.975440322
0.007869871	0.137346677	0.000161395	0.004910326	0.004517500	15.518688279	0.000001943	0.000000871	15.518999170
0.007549378	0.131753373	0.000154822	0.004710358	0.004333529	14.886705498	0.000001864	0.000000836	14.887003728
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102				
1.12%	0.78%	0.78%	1.19%	1.19%				
0.017467837	0.175701296	0.000208231	0.014734397	0.013555646				
37.56%	27.75%	27.92%	43.29%	43.29%				
0.028519570	0.452436112	0.000531654	0.018896905	0.017385153				
61.32%	71.46%	71.29%	55.52%	55.52%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.004205547	0.017288393	0.000022585	0.002165600	0.001992352	2.171628717	0.000000272	0.000000122	2.171672222
0.003138382	0.025356310	0.000029796	0.003298223	0.003034365	2.864988605	0.000000359	0.000000161	2.865046001
0.008559223	0.069153571	0.000081262	0.008995153	0.008275541	7.813605287	0.000000979	0.000000439	7.813761820
0.006798290	0.118329444	0.000139048	0.004651369	0.004279260	13.369946825	0.000001674	0.000000751	13.370214669
0.006665311	0.055933036	0.000065726	0.005628632	0.005178341	6.319827806	0.000000791	0.000000355	6.319954413
0.010801784	0.188515046	0.000221522	0.006739663	0.006200490	21.300160383	0.000002668	0.000001196	21.300587095
0.010493161	0.183128902	0.000215193	0.006547101	0.006023333	20.691584372	0.000002591	0.000001162	20.691998893
0.010065838	0.175671164	0.000206430	0.006280477	0.005778039	19.848940664	0.000002486	0.000001114	19.849338304
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102				
0.85%	0.59%	0.59%	0.91%	0.91%				
0.022701442	0.230127718	0.000272691	0.019110345	0.017581518				
37.07%	27.45%	27.62%	42.74%	42.74%				
0.038026094	0.603248148	0.000708871	0.025195873	0.023180203				
62.09%	71.96%	71.79%	56.35%	56.35%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.005140113	0.021130258	0.000027604	0.002646844	0.002435097	2.654212877	0.000000332	0.000000149	2.654266050
0.003835800	0.030991045	0.000036417	0.004031161	0.003708668	3.501652740	0.000000439	0.000000197	3.501722890
0.010461273	0.084521032	0.000099320	0.010994076	0.010114550	9.549962018	0.000001196	0.000000536	9.550153335
0.008497863	0.147911806	0.000173810	0.005814212	0.005349075	16.712433531	0.000002093	0.000000938	16.712768336
0.008887082	0.074577381	0.000087635	0.007504843	0.006904455	8.426437074	0.000001055	0.000000473	8.426605884
0.030578440	0.515826885	0.000606143	0.019332578	0.017785972	58.282856432	0.000007299	0.000003272	58.284024030
0.030117921	0.508058408	0.000597015	0.019041424	0.017518110	57.405102570	0.000007189	0.000003223	57.406252584
0.035152925	0.592993758	0.000696822	0.022224700	0.020446724	67.001878127	0.000008391	0.000003761	67.003220397
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102				
0.39%	0.25%	0.25%	0.44%	0.44%				
0.027935049	0.284554141	0.000337151	0.023486293	0.021607390				

ROGTON	COTON	SOXTON	PM10TON	PM25TON	CO2TONNE	CH4TONNE	N2OTONNE	CO2ETONNE
20.97%	14.36%	14.47%	25.53%	25.53%				
0.104736368	1.691456432	0.001987615	0.068103545	0.062655261				
78.64%	85.38%	85.28%	74.03%	74.03%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.006074679	0.024972123	0.000032623	0.003128089	0.002877842	3.136797036	0.000000393	0.000000176	3.136859877
0.004533218	0.036625780	0.000043039	0.004764100	0.004382972	4.138316874	0.000000518	0.000000232	4.138399779
0.012363323	0.099888492	0.000117378	0.012992999	0.011953559	11.286318748	0.000001413	0.000000634	11.286544851
0.010197436	0.177494167	0.000208572	0.006977054	0.006418890	20.054920237	0.000002512	0.000001126	20.055322004
0.010664498	0.089492857	0.000105162	0.009005811	0.008285346	10.111724489	0.000001266	0.000000568	10.111927061
0.036694128	0.618992262	0.000727372	0.023199093	0.021343166	69.939427718	0.000008759	0.000003926	69.940828837
0.036141506	0.609670089	0.000716418	0.022849709	0.021021733	68.886123084	0.000008627	0.000003867	68.887503101
0.042183511	0.711592510	0.000836186	0.026669640	0.024536069	80.402253752	0.000010069	0.000004514	80.403864476
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102				
0.33%	0.21%	0.21%	0.37%	0.37%				
0.033168656	0.338980562	0.000401612	0.027862242	0.025633263				
20.81%	14.28%	14.38%	25.33%	25.33%				
0.125683643	2.029747718	0.002385138	0.081724253	0.075186314				
78.86%	85.51%	85.41%	74.30%	74.30%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.007476529	0.030734921	0.000040151	0.003849956	0.003541959	3.860673275	0.000000483	0.000000217	3.860750618
0.005579346	0.045077884	0.000052971	0.005863507	0.005394427	5.093313076	0.000000638	0.000000286	5.093415112
0.015216397	0.122939683	0.000144465	0.015991384	0.014712073	13.890853844	0.000001740	0.000000780	13.891132124
0.012746795	0.221867708	0.000260715	0.008721317	0.008023612	25.068650297	0.000003139	0.000001407	25.069152505
0.013330623	0.111866071	0.000131453	0.011257264	0.010356683	12.639655612	0.000001583	0.000000710	12.639908826
0.045867660	0.773740327	0.000909215	0.028998867	0.026678957	87.424284648	0.000010949	0.000004908	87.426036046
0.045176882	0.762087612	0.000895522	0.028562137	0.026277166	86.107653855	0.000010784	0.000004834	86.109378876
0.052729388	0.889490637	0.001045232	0.033337050	0.030670086	100.502817190	0.000012586	0.000005642	100.504830590
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102				
0.26%	0.17%	0.17%	0.30%	0.30%				
0.041019067	0.420620196	0.000498302	0.034426164	0.031672071				
20.65%	14.20%	14.30%	25.13%	25.13%				
0.157104553	2.537184647	0.002981422	0.102155318	0.093982892				
79.09%	85.64%	85.54%	74.57%	74.57%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.008878378	0.036497718	0.000047679	0.004571822	0.004206076	4.584549515	0.000000574	0.000000257	4.584641358
0.006625473	0.053529987	0.000062903	0.006962915	0.006405882	6.048309278	0.000000757	0.000000340	6.048430446
0.018069471	0.145990873	0.000171553	0.018989768	0.017470587	16.495388940	0.000002066	0.000000926	16.495719397
0.015296154	0.266241250	0.000312858	0.010465581	0.009628334	30.082380356	0.000003767	0.000001689	30.082983006
0.015996747	0.134239286	0.000157743	0.013508717	0.012428019	15.167586734	0.000001900	0.000000852	15.167890591
0.055041192	0.928488393	0.001091058	0.034798640	0.032014749	104.909141580	0.000013138	0.000005890	104.911243250
0.054212258	0.914505134	0.001074627	0.034274564	0.031532599	103.329184630	0.000012940	0.000005801	103.331254650
0.063275266	1.067388765	0.001254279	0.040004461	0.036804104	120.603380630	0.000015104	0.000006771	120.605796710
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102				

ROGTON	COTON	SOXTON	PM10TON	PM25TON	CO2TONNE	CH4TONNE	N2OTONNE	CO2ETONNE
0.22%	0.14%	0.14%	0.25%	0.25%				
0.048869476	0.502259828	0.000594993	0.040990086	0.037710879				
20.54%	14.14%	14.24%	25.00%	25.00%				
0.188525463	3.044621578	0.003577707	0.122586382	0.112779471				
79.24%	85.72%	85.62%	74.76%	74.76%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.011214793	0.046102381	0.000060227	0.005774933	0.005312939	5.791009913	0.000000725	0.000000325	5.791125926
0.008369018	0.067616825	0.000079456	0.008795261	0.008091640	7.639969614	0.000000957	0.000000429	7.640122668
0.022824596	0.184409524	0.000216698	0.023987075	0.022068109	20.836280766	0.000002609	0.000001170	20.836698186
0.019545085	0.340197153	0.000399763	0.013372686	0.012302872	38.438597121	0.000004814	0.000002158	38.439367174
0.020440288	0.171527976	0.000201561	0.017261138	0.015880247	19.380805271	0.000002427	0.000001088	19.381193533
0.070330412	1.186401835	0.001394130	0.044464929	0.040907734	134.050569790	0.000016788	0.000007526	134.053255270
0.069271219	1.168534338	0.001373134	0.043795276	0.040291654	132.031735910	0.000016535	0.000007412	132.034380940
0.080851729	1.363885644	0.001602690	0.051116811	0.047027466	154.104319690	0.000019299	0.000008651	154.107406910
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102				
0.17%	0.11%	0.11%	0.19%	0.19%				
0.061953492	0.638325883	0.000756144	0.051929955	0.047775560				
20.42%	14.08%	14.18%	24.85%	24.85%				
0.240893648	3.890349793	0.004571515	0.156638154	0.144107101				
79.41%	85.81%	85.71%	74.96%	74.96%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.013551208	0.055707044	0.000072774	0.006978044	0.006419801	6.997470312	0.000000876	0.000000393	6.997610494
0.010112564	0.081703664	0.000096009	0.010627607	0.009777398	9.231629951	0.000001156	0.000000518	9.231814891
0.027579720	0.222828175	0.000261843	0.028984383	0.026665632	25.177172592	0.000003153	0.000001413	25.177676974
0.023794017	0.414153056	0.000486667	0.016279792	0.014977409	46.794813887	0.000005860	0.000002627	46.795751342
0.027303090	0.229118287	0.000269235	0.023056544	0.021212021	25.887887234	0.000003242	0.000001453	25.888405855
0.094044054	1.586426620	0.001864195	0.059457382	0.054700791	179.249041990	0.000022448	0.000010063	179.252632940
0.082696873	1.395011343	0.001639265	0.052283365	0.048100696	157.621186830	0.000019740	0.000008849	157.624344510
0.163158696	2.752319676	0.003234226	0.103153666	0.094901372	310.982341590	0.000038946	0.000017459	310.988571590
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102				
0.12%	0.07%	0.07%	0.13%	0.13%				
0.075037509	0.774391939	0.000917293	0.062869826	0.057840240				
16.95%	11.49%	11.57%	20.87%	20.87%				
0.367202713	5.962875926	0.007006921	0.237950957	0.218914880				
82.94%	88.44%	88.36%	78.99%	78.99%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.016822189	0.069153571	0.000090340	0.008662400	0.007969408	8.686514870	0.000001088	0.000000488	8.686688889
0.012553528	0.101425238	0.000119184	0.013192892	0.012137460	11.459954421	0.000001435	0.000000643	11.460184002
0.034236893	0.276614286	0.000325047	0.035980613	0.033102164	31.254421149	0.000003914	0.000001755	31.255047279
0.029742521	0.517691319	0.000608334	0.020349740	0.018721761	58.493517359	0.000007325	0.000003284	58.494689178
0.034128862	0.286397859	0.000336543	0.028820680	0.026515026	32.359859043	0.000004053	0.000001817	32.360507318
0.117555067	1.983033275	0.002330244	0.074321727	0.068375989	224.061302490	0.000028060	0.000012579	224.065791180
0.103371092	1.743764178	0.002049081	0.065354206	0.060125870	197.026483540	0.000024675	0.000011061	197.030430630
0.203948370	3.440399595	0.004042782	0.128942082	0.118626716	388.727926990	0.000048682	0.000021823	388.735714490

ROGTON	COTON	SOXTON	PM10TON	PM25TON	CO2TONNE	CH4TONNE	N2OTONNE	CO2ETONNE
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102				
0.09%	0.06%	0.06%	0.11%	0.11%				
0.093355131	0.964884414	0.001142905	0.078185645	0.071930793				
16.89%	11.45%	11.54%	20.79%	20.79%				
0.459003391	7.453594907	0.008758650	0.297438695	0.273643601				
83.02%	88.49%	88.41%	79.10%	79.10%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.020560453	0.084521032	0.000110416	0.010587378	0.009740388	10.616851507	0.000001330	0.000000596	10.617064198
0.015343200	0.123964180	0.000145669	0.016124645	0.014834674	14.006610959	0.000001754	0.000000786	14.006891558
0.041845092	0.338084127	0.000397280	0.043976305	0.040458201	38.199848071	0.000004784	0.000002145	38.200613340
0.036540811	0.636020764	0.000747382	0.025001110	0.023001021	71.863464184	0.000009000	0.000004034	71.864903847
0.041929745	0.351860227	0.000413468	0.035408264	0.032575603	39.756398253	0.000004979	0.000002232	39.757194705
0.144424797	2.436298024	0.002862871	0.091309550	0.084004786	275.275314480	0.000034474	0.000015454	275.280829160
0.126998770	2.142338848	0.002517443	0.080292310	0.073868925	242.061108350	0.000030315	0.000013589	242.065957640
0.250565141	4.226776645	0.004966846	0.158414558	0.145741393	477.580024580	0.000059810	0.000026811	477.589592090
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102				
0.08%	0.05%	0.05%	0.09%	0.09%				
0.114289556	1.182590103	0.001400747	0.095689438	0.088034284				
16.84%	11.43%	11.51%	20.73%	20.73%				
0.563918453	9.157273744	0.010760628	0.365424682	0.336190707				
83.08%	88.52%	88.44%	79.18%	79.18%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.025233284	0.103730357	0.000135510	0.012993600	0.011954112	13.029772305	0.000001632	0.000000731	13.030033334
0.018830291	0.152137857	0.000178776	0.019789337	0.018206190	17.189931632	0.000002153	0.000000965	17.190276003
0.051355340	0.414921429	0.000487570	0.053970920	0.049653246	46.881631724	0.000005871	0.000002632	46.882570918
0.045038674	0.783932569	0.000921192	0.030815321	0.028350095	88.575897715	0.000011093	0.000004973	88.577672183
0.051680849	0.433688186	0.000509623	0.043642744	0.040151325	49.002072265	0.000006137	0.000002751	49.003053939
0.178011959	3.002878960	0.003528656	0.112544330	0.103540783	339.292829480	0.000042491	0.000019048	339.299626640
0.156533368	2.640557184	0.003102895	0.098964941	0.091047745	298.354389360	0.000037364	0.000016750	298.360366390
0.308836104	5.209747958	0.006121927	0.195255153	0.179634741	588.645146580	0.000073719	0.000033046	588.656939090
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102				
0.06%	0.04%	0.04%	0.07%	0.07%				
0.140457589	1.454722212	0.001723048	0.117569178	0.108163643				
16.80%	11.41%	11.49%	20.68%	20.68%				
0.695062280	11.286872288	0.013263101	0.450407168	0.414374594				
83.14%	88.55%	88.47%	79.24%	79.24%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.030840680	0.126781548	0.000165623	0.015881067	0.014610581	15.925277261	0.000001994	0.000000894	15.925596297
0.023014800	0.185946270	0.000218504	0.024186968	0.022252010	21.009916439	0.000002631	0.000001179	21.010337337
0.062767638	0.507126190	0.000595919	0.065964458	0.060687301	57.299772107	0.000007176	0.000003217	57.300920011
0.055236110	0.961426736	0.001129764	0.037792375	0.034768985	108.630817950	0.000013604	0.000006099	108.632994190
0.063382173	0.531881738	0.000625009	0.053524120	0.049242191	60.096881080	0.000007526	0.000003374	60.098085019
0.218316553	3.682776083	0.004327596	0.138026064	0.126983979	416.113847480	0.000052112	0.000023361	416.122183620

ROGTON	COTON	SOXTON	PM10TON	PM25TON	CO2TONNE	CH4TONNE	N2OTONNE	CO2ETONNE
0.191974885	3.238419188	0.003805437	0.121372097	0.111662329	365.906326580	0.000045824	0.000020542	365.913656890
0.378761259	6.389313533	0.007508024	0.239463867	0.220306758	721.923292970	0.000090410	0.000040529	721.937755490
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102				
0.05%	0.03%	0.03%	0.06%	0.06%				
0.171859228	1.781280744	0.002109810	0.143824868	0.132318877				
16.77%	11.40%	11.48%	20.65%	20.65%				
0.852434870	13.842390542	0.016266066	0.552386148	0.508195257				
83.18%	88.57%	88.49%	79.30%	79.30%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.038317209	0.157516468	0.000205774	0.019731022	0.018152540	19.785950537	0.000002478	0.000001111	19.786346915
0.028594146	0.231024153	0.000271474	0.030050475	0.027646437	26.103229515	0.000003269	0.000001465	26.103752449
0.077984035	0.630065873	0.000740385	0.081955841	0.075399374	71.190625951	0.000008916	0.000003997	71.192052135
0.068832691	1.198085625	0.001407859	0.047095113	0.043327504	135.370711600	0.000016953	0.000007600	135.373423530
0.051195819	0.755095982	0.000887306	0.032430924	0.029836450	85.317675379	0.000010685	0.000004790	85.319384575
0.301151582	5.080117969	0.005969600	0.190396775	0.175165033	573.998360470	0.000071885	0.000032224	574.009859560
0.289712298	4.887148996	0.005742844	0.183164528	0.168511366	552.194954540	0.000069154	0.000031000	552.206016830
0.547842226	9.241535826	0.010859644	0.346361764	0.318652823	1044.193549200	0.000130770	0.000058621	1044.214467900
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102				
0.04%	0.02%	0.02%	0.04%	0.04%				
0.213728081	2.216692119	0.002625492	0.178832451	0.164525855				
15.22%	9.99%	10.06%	19.20%	19.20%				
1.189901925	19.963898773	0.023459394	0.752353991	0.692165672				
84.74%	89.99%	89.91%	80.76%	80.76%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.047195586	0.194014187	0.000253454	0.024302844	0.022358617	24.370500051	0.000003052	0.000001368	24.370988273
0.035219619	0.284554140	0.000334377	0.037013390	0.034052319	32.151538793	0.000004027	0.000001805	32.152182895
0.096053506	0.776056746	0.000911937	0.100945609	0.092869961	87.686014890	0.000010981	0.000004923	87.687771532
0.084978631	1.479118056	0.001738098	0.058142115	0.053490746	167.124335310	0.000020930	0.000009382	167.127683360
0.063204715	0.932217262	0.001095440	0.040038178	0.036835124	105.330463430	0.000013191	0.000005913	105.332573550
0.371792077	6.271750579	0.007369877	0.235057747	0.216253128	708.639951200	0.000088747	0.000039783	708.654147600
0.357669504	6.033517278	0.007089931	0.226129047	0.208038723	681.722166100	0.000085376	0.000038272	681.735823250
0.676348427	11.409303489	0.013406968	0.427607116	0.393398547	1289.127838500	0.000161444	0.000072372	1289.153664000
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102				
0.03%	0.02%	0.02%	0.04%	0.04%				
0.263447342	2.733743129	0.003237866	0.220403958	0.202771643				
15.20%	9.98%	10.05%	19.17%	19.17%				
1.469014723	24.646788608	0.028962216	0.928832088	0.854525522				
84.77%	90.00%	89.93%	80.79%	80.79%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.058410379	0.240116567	0.000313681	0.030077778	0.027671556	30.161509964	0.000003777	0.000001693	30.162114199
0.043588637	0.352170966	0.000413833	0.045808651	0.042143959	39.791508407	0.000004983	0.000002234	39.792305563
0.118878102	0.960466270	0.001128635	0.124932685	0.114938070	108.522295660	0.000013591	0.000006092	108.524469720
0.105373502	1.834106389	0.002155242	0.072096223	0.066328525	207.234175790	0.000025953	0.000011634	207.238327370

ROGTON	COTON	SOXTON	PM10TON	PM25TON	CO2TONNE	CH4TONNE	N2OTONNE	CO2ETONNE
0.078373847	1.155949405	0.001358346	0.049647341	0.045675554	130.609774650	0.000016357	0.000007332	130.612391200
0.461022175	7.776970718	0.009138647	0.291471607	0.268153878	878.713539480	0.000110046	0.000049331	878.731143020
0.443510185	7.481561425	0.008791514	0.280400018	0.257968017	845.335485960	0.000105866	0.000047457	845.352420830
0.838672049	14.147536326	0.016624640	0.530232824	0.487814198	1598.518519800	0.000200191	0.000089741	1598.550543400
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102				
0.02%	0.01%	0.01%	0.03%	0.03%				
0.326250620	3.386860192	0.004011391	0.272915337	0.251082110				
15.19%	9.97%	10.05%	19.15%	19.15%				
1.821578256	30.562017874	0.035913147	1.151751790	1.059611647				
84.79%	90.01%	89.94%	80.82%	80.82%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.071961587	0.295823611	0.000386454	0.037055822	0.034091356	37.158980276	0.000004654	0.000002086	37.159724694
0.053701201	0.433874630	0.000509842	0.056436258	0.051921357	49.023138358	0.000006139	0.000002752	49.024120454
0.146457821	1.183294444	0.001390478	0.153917068	0.141603702	133.699468250	0.000016744	0.000007506	133.702146690
0.130017305	2.263050625	0.002659290	0.088957436	0.081840841	255.700233030	0.000032023	0.000014355	255.705355550
0.096703214	1.426292411	0.001676023	0.061258413	0.056357740	161.155609050	0.000020182	0.000009047	161.158837530
0.568841877	9.595778385	0.011275911	0.359638353	0.330867285	1084.219125300	0.000135782	0.000060868	1084.240845800
0.547234341	9.231281436	0.010847594	0.345977441	0.318299246	1043.034914100	0.000130625	0.000058556	1043.055809600
1.034813093	17.456234338	0.020512661	0.654238887	0.601899776	1972.365593000	0.000247010	0.000110728	1972.405106000
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102				
0.02%	0.01%	0.01%	0.02%	0.02%				
0.402137914	4.176043310	0.004946064	0.336366584	0.309457256				
15.17%	9.97%	10.04%	19.13%	19.13%				
2.247592525	37.709586570	0.044312189	1.421113094	1.307424047				
84.81%	90.02%	89.95%	80.84%	80.84%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.089251059	0.366898115	0.000479304	0.045958844	0.042282137	46.086787226	0.000005772	0.000002587	46.087710497
0.066603438	0.538117235	0.000632337	0.069995619	0.064395969	60.801424846	0.000007614	0.000003413	60.802642900
0.181645739	1.467592460	0.001724554	0.190897142	0.175625371	165.822067760	0.000020767	0.000009309	165.825389730
0.161459399	2.810324306	0.003302386	0.110470019	0.101632417	317.536237090	0.000039767	0.000017826	317.542598390
0.120088959	1.771212798	0.002081336	0.076072538	0.069986735	200.127880520	0.000025063	0.000011235	200.131889740
0.706404945	11.916326100	0.014002765	0.446609720	0.410880942	1346.415907300	0.000168619	0.000075588	1346.442880400
0.679572057	11.463682829	0.013470868	0.429645189	0.395273574	1295.272115600	0.000162214	0.000072716	1295.298064200
1.285062011	21.677676629	0.025473239	0.812453520	0.747457238	2449.342893200	0.000306744	0.000137506	2449.391961700
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102				
0.02%	0.01%	0.01%	0.02%	0.02%				
0.498959635	5.182932116	0.006138581	0.417321624	0.383935894				
15.16%	9.96%	10.03%	19.12%	19.12%				
2.791127972	46.828898356	0.055028208	1.764780967	1.623598489				
84.82%	90.03%	89.96%	80.86%	80.86%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.109811512	0.451419147	0.000589720	0.056546222	0.052022524	56.703638733	0.000007101	0.000003183	56.704774695
0.081946638	0.662081415	0.000778006	0.086120264	0.079230643	74.808035806	0.000009369	0.000004200	74.809534458

ROGTON	COTON	SOXTON	PM10TON	PM25TON	CO2TONNE	CH4TONNE	N2OTONNE	CO2ETONNE
0.223490831	1.805676587	0.002121834	0.234873447	0.216083572	204.021915830	0.000025551	0.000011454	204.026003070
0.198849996	3.461136250	0.004067149	0.136052550	0.125168346	391.070944630	0.000048976	0.000021955	391.078779070
0.147899034	2.181388393	0.002563329	0.093689337	0.086194190	246.473284430	0.000030867	0.000013837	246.478222100
0.977754829	16.493720015	0.019381619	0.618164996	0.568711796	1863.611889500	0.000233390	0.000104623	1863.649223800
0.964105055	16.263462351	0.019111045	0.609535213	0.560772396	1837.595265000	0.000230132	0.000103162	1837.632078100
1.633662367	27.558206696	0.032383396	1.032848788	0.950220885	3113.779160000	0.000389955	0.000174807	3113.841539300
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102				
0.01%	0.01%	0.01%	0.01%	0.01%				
0.614098977	6.380313399	0.007556709	0.513592483	0.472505085				
14.16%	9.26%	9.33%	17.91%	17.91%				
3.723421285	62.496777455	0.073439389	2.354238334	2.165899267				
85.83%	90.73%	90.66%	82.08%	82.08%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.135979362	0.558991369	0.000730248	0.070021067	0.064419381	70.215995197	0.000008794	0.000003942	70.217401856
0.101474348	0.819854008	0.000963403	0.106642540	0.098111137	92.634631572	0.000011601	0.000005201	92.636487351
0.276748221	2.235965476	0.002627463	0.290843290	0.267575827	252.639904290	0.000031639	0.000014183	252.644965500
0.246438029	4.289442361	0.005040484	0.168612134	0.155123163	484.660572400	0.000060697	0.000027209	484.670281760
0.183293674	2.703430060	0.003176776	0.116110717	0.106821859	305.458343950	0.000038254	0.000017148	305.464463290
1.211747438	20.440935061	0.024019955	0.766101918	0.704813765	2309.604478400	0.000289244	0.000129661	2309.650747400
1.194831052	20.155572999	0.023684629	0.755406888	0.694974337	2277.361653200	0.000285206	0.000127851	2277.407276300
2.024624301	34.153333085	0.040133268	1.280026276	1.177624174	3858.957078600	0.000483277	0.000216642	3859.034386300
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102				
0.01%	0.01%	0.01%	0.01%	0.01%				
0.760639960	7.904253214	0.009361598	0.636119031	0.585229508				
14.15%	9.26%	9.33%	17.90%	17.90%				
4.614496465	77.453271205	0.091014628	2.917645799	2.684234135				
85.84%	90.73%	90.67%	82.09%	82.09%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.168221891	0.691535714	0.000903400	0.086624000	0.079694080	86.865148698	0.000010879	0.000004877	86.866888894
0.125535275	1.014252381	0.001191839	0.131928915	0.121374602	114.599544210	0.000014352	0.000006434	114.601840020
0.342368933	2.766142857	0.003250469	0.359806132	0.331021641	312.544211490	0.000039142	0.000017546	312.550472790
0.305073285	5.310033819	0.006239772	0.208730194	0.192031778	599.976363770	0.000075138	0.000033683	599.988383280
0.226904928	3.346659970	0.003932629	0.143737059	0.132238095	378.136363720	0.000047356	0.000021229	378.143939040
1.500059759	25.304467886	0.029735048	0.948381340	0.872510833	2859.131061200	0.000358064	0.000160511	2859.188339100
1.479118440	24.951209334	0.029319937	0.935141630	0.860330299	2819.216667300	0.000353065	0.000158271	2819.273145500
2.506345255	42.279470957	0.049682218	1.584584252	1.457817512	4777.122728300	0.000598264	0.000268187	4777.218429900
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102				
0.01%	0.00%	0.00%	0.01%	0.01%				
0.941199384	9.781964771	0.011585480	0.787089241	0.724122101				
14.14%	9.26%	9.32%	17.89%	17.89%				
5.712428382	95.881808147	0.112669832	3.611844281	3.322896739				
85.85%	90.74%	90.67%	82.10%	82.10%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277

ROGTON	COTON	SOXTON	PM10TON	PM25TON	CO2TONNE	CH4TONNE	N2OTONNE	CO2ETONNE
0.207940949	0.854814980	0.001116703	0.107076889	0.098510738	107.374975470	0.000013447	0.000006028	107.377126550
0.155175549	1.253728638	0.001473245	0.163078798	0.150032494	141.657769930	0.000017741	0.000007953	141.660607800
0.423206042	3.419259921	0.004017941	0.444760358	0.409179529	386.339372540	0.000048383	0.000021689	386.347112190
0.377305121	6.567284167	0.007717155	0.258150991	0.237498912	742.032048780	0.000092929	0.000041658	742.046914140
0.280628936	4.139044643	0.004863753	0.177769511	0.163547950	467.667257630	0.000058568	0.000026255	467.676626560
1.855227111	31.295776438	0.036775380	1.172928454	1.079094178	3536.084098000	0.000442842	0.000198515	3536.154937500
1.829327541	30.858877282	0.036261984	1.156553993	1.064029674	3486.719220800	0.000436660	0.000195744	3486.789071300
3.099769619	52.289930655	0.061445418	1.959764367	1.802983218	5908.196354800	0.000739914	0.000331686	5908.314715500
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102				
0.01%	0.00%	0.00%	0.01%	0.01%				
1.163627661	12.095087706	0.014325044	0.973067036	0.895221673				
14.14%	9.26%	9.32%	17.89%	17.89%				
7.064953207	118.583629018	0.139346535	4.467016325	4.109655020				
85.85%	90.74%	90.67%	82.11%	82.11%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.257005667	1.056512897	0.001380195	0.132342222	0.121754844	132.710643840	0.000016620	0.000007450	132.713302480
0.191790004	1.549552249	0.001820865	0.201558065	0.185433420	175.082636990	0.000021927	0.000009829	175.086144480
0.523063647	4.226051587	0.004965994	0.549703813	0.505727508	477.498100890	0.000059800	0.000026807	477.507666760
0.466532683	8.120358125	0.009542158	0.319200212	0.293664195	917.512600860	0.000114905	0.000051509	917.530981670
0.346993887	5.117872768	0.006013965	0.219809598	0.202224830	578.264244240	0.000072419	0.000032464	578.275828780
2.293963253	38.696804650	0.045472260	1.450310183	1.334285368	4372.320202300	0.000547568	0.000245462	4372.407794300
2.261938784	38.156584747	0.044837453	1.430063384	1.315658313	4311.281198700	0.000539924	0.000242035	4311.367567900
3.832823245	64.655792634	0.075976429	2.423222157	2.229364384	7305.404952200	0.000914894	0.000410125	7305.551303600
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102				
0.01%	0.00%	0.00%	0.01%	0.01%				
1.438392001	14.952474858	0.017709212	1.202804312	1.106579967				
14.14%	9.25%	9.32%	17.88%	17.88%				
8.735719169	146.627054799	0.172300107	5.523405322	5.081532895				
85.86%	90.74%	90.68%	82.11%	82.11%				

Oilfield Emission Percentages by Well Depth and Pollutant

Well Depth		PMTON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
1,000	Oilfield Emissions	0.271938085	0.014259785	0.22621806	0.000265826	0.009448453	0.008692577
	% of total	67.77%	58.45%	69.55%	69.37%	52.42%	52.42%
2,000	Oilfield Emissions	0.362584113	0.019013048	0.30162407	0.000354436	0.012597938	0.011590103
	% of total	68.95%	59.85%	70.50%	70.32%	53.92%	53.92%
3,000	Oilfield Emissions	0.453230141	0.02376631	0.37703009	0.000443044	0.015747421	0.014487627
	% of total	69.67%	60.73%	71.07%	70.90%	54.87%	54.87%
4,000	Oilfield Emissions	0.54387617	0.02851957	0.45243611	0.000531654	0.018896905	0.017385153
	% of total	70.17%	61.32%	71.46%	71.29%	55.52%	55.52%
5,000	Oilfield Emissions	0.725168227	0.038026094	0.60324815	0.000708871	0.025195873	0.023180203
	% of total	70.79%	62.09%	71.96%	71.79%	56.35%	56.35%
6,000	Oilfield Emissions	2.194651315	0.104736368	1.69145643	0.001987615	0.068103545	0.062655261
	% of total	85.67%	78.64%	85.38%	85.28%	74.03%	74.03%
7,000	Oilfield Emissions	2.633581578	0.125683643	2.02974772	0.002385138	0.081724253	0.075186314
	% of total	85.82%	78.86%	85.51%	85.41%	74.30%	74.30%
8,000	Oilfield Emissions	3.291976972	0.157104553	2.53718465	0.002981422	0.102155318	0.093982892
	% of total	85.98%	79.09%	85.64%	85.54%	74.57%	74.57%
9,000	Oilfield Emissions	3.950372367	0.188525463	3.04462158	0.003577707	0.122586382	0.112779471
	% of total	86.08%	79.24%	85.72%	85.62%	74.76%	74.76%
10,000	Oilfield Emissions	5.047698025	0.240893648	3.89034979	0.004571515	0.156638154	0.144107101
	% of total	86.19%	79.41%	85.81%	85.71%	74.96%	74.96%
11,000	Oilfield Emissions	7.722756979	0.367202713	5.96287593	0.007006921	0.237950957	0.21891488
	% of total	88.76%	82.94%	88.44%	88.36%	78.99%	78.99%
12,000	Oilfield Emissions	9.653446223	0.459003391	7.45359491	0.00875865	0.297438695	0.273643601
	% of total	88.81%	83.02%	88.49%	88.41%	79.10%	79.10%
13,000	Oilfield Emissions	11.85994822	0.563918453	9.15727374	0.010760628	0.365424682	0.336190707
	% of total	88.85%	83.08%	88.52%	88.44%	79.18%	79.18%
14,000	Oilfield Emissions	14.61807571	0.69506228	11.2868723	0.013263101	0.450407168	0.414374594
	% of total	88.89%	83.14%	88.55%	88.47%	79.24%	79.24%
15,000	Oilfield Emissions	17.9278287	0.85243487	13.8423905	0.016266066	0.552386148	0.508195257
	% of total	88.92%	83.18%	88.57%	88.49%	79.30%	79.30%

Total Wells:

Drilled Well Percentages by Year Associated with Each Well Depth

2012	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
305	323	323	323	325	325	326	326	326	327	327	328	328	329	329	330	330	330	332	332	333	333
8.99%	8.14%	8.14%	8.12%	8.16%	8.15%	8.16%	8.15%	8.14%	8.15%	8.14%	8.15%	8.14%	8.15%	8.14%	8.15%	8.14%	8.13%	8.17%	8.16%	8.17%	8.16%
1,414	1,575	1,577	1,581	1,582	1,586	1,588	1,590	1,595	1,598	1,599	1,601	1,603	1,604	1,608	1,610	1,613	1,616	1,617	1,617	1620	1623
41.69%	39.71%	39.72%	39.76%	39.73%	39.77%	39.76%	39.75%	39.82%	39.83%	39.80%	39.79%	39.78%	39.74%	39.78%	39.77%	39.79%	39.80%	39.77%	39.72%	39.74%	39.75%
930	1,128	1,130	1,131	1,133	1,134	1,136	1,139	1,140	1,141	1,142	1,144	1,146	1,148	1,150	1,152	1,153	1,155	1,157	1,159	1161	1163
27.42%	28.44%	28.46%	28.45%	28.45%	28.44%	28.44%	28.48%	28.46%	28.44%	28.42%	28.43%	28.44%	28.44%	28.45%	28.46%	28.44%	28.45%	28.46%	28.47%	28.48%	28.48%
174	218	218	219	219	219	220	220	220	221	221	221	222	222	222	222	223	223	224	224	224	224
5.13%	5.50%	5.49%	5.51%	5.50%	5.49%	5.51%	5.50%	5.49%	5.51%	5.50%	5.49%	5.51%	5.50%	5.49%	5.48%	5.50%	5.49%	5.51%	5.50%	5.49%	5.49%
300	363	363	363	364	365	365	366	366	366	368	368	368	369	369	370	371	371	371	372	372	373
8.84%	9.15%	9.14%	9.13%	9.14%	9.15%	9.14%	9.15%	9.14%	9.12%	9.16%	9.15%	9.13%	9.14%	9.13%	9.14%	9.15%	9.14%	9.12%	9.14%	9.12%	9.14%
69	89	89	89	89	89	89	89	89	89	91	91	91	91	91	91	91	91	91	91	91	91
2.03%	2.24%	2.24%	2.24%	2.24%	2.23%	2.23%	2.23%	2.22%	2.22%	2.26%	2.26%	2.26%	2.25%	2.25%	2.25%	2.24%	2.24%	2.24%	2.24%	2.23%	2.23%
44	55	55	55	55	55	55	55	55	55	55	56	56	56	56	56	56	56	56	56	56	56
1.30%	1.39%	1.39%	1.38%	1.38%	1.38%	1.38%	1.38%	1.37%	1.37%	1.37%	1.39%	1.39%	1.39%	1.39%	1.38%	1.38%	1.38%	1.38%	1.38%	1.37%	1.37%
23	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	26	26	26
0.68%	0.63%	0.63%	0.63%	0.63%	0.63%	0.63%	0.63%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.61%	0.64%	0.64%	0.64%
33	37	37	37	37	37	37	37	37	37	37	37	37	38	38	38	38	38	38	38	38	38
0.97%	0.93%	0.93%	0.93%	0.93%	0.93%	0.93%	0.93%	0.92%	0.92%	0.92%	0.92%	0.92%	0.94%	0.94%	0.94%	0.94%	0.94%	0.93%	0.93%	0.93%	0.93%
21	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
0.62%	0.83%	0.83%	0.83%	0.83%	0.83%	0.83%	0.83%	0.82%	0.82%	0.82%	0.82%	0.82%	0.82%	0.82%	0.82%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%
25	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	32	32	32	32	32
0.74%	0.78%	0.78%	0.78%	0.78%	0.78%	0.78%	0.78%	0.77%	0.77%	0.77%	0.77%	0.77%	0.77%	0.77%	0.77%	0.76%	0.79%	0.79%	0.79%	0.78%	0.78%
27	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	42	42	42
0.80%	1.03%	1.03%	1.03%	1.03%	1.03%	1.03%	1.03%	1.02%	1.02%	1.02%	1.02%	1.02%	1.02%	1.01%	1.01%	1.01%	1.01%	1.01%	1.03%	1.03%	1.03%
20	36	36	36	36	36	36	36	36	36	36	36	37	37	37	37	37	37	37	37	37	37
0.59%	0.91%	0.91%	0.91%	0.90%	0.90%	0.90%	0.90%	0.90%	0.90%	0.90%	0.89%	0.92%	0.92%	0.92%	0.91%	0.91%	0.91%	0.91%	0.91%	0.91%	0.91%
6	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
0.18%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.24%
1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
0.03%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%
3392	3966	3970	3976	3982	3988	3994	4000	4006	4012	4018	4024	4030	4036	4042	4048	4054	4060	4066	4071	4077	4083
100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Oilfield Emission Percentages by Well Depth and Pollutant

Well Depth		NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
1000	% of total	0.677656776	0.584509167	0.695528	0.693696797	0.524169705	0.524169724
2000	% of total	0.689455293	0.598530087	0.7049503	0.703188828	0.53922558	0.539225591
3000	% of total	0.696733689	0.607270186	0.7107272	0.709006529	0.548681508	0.548681513
4000	% of total	0.701671932	0.613240131	0.7146313	0.712939558	0.555171899	0.555171897
5000	% of total	0.707944055	0.620869717	0.7195723	0.717918205	0.563504058	0.563504053
6000	% of total	0.856704679	0.786365886	0.8538494	0.852833302	0.74028432	0.740284318
7000	% of total	0.858238462	0.788621766	0.8551004	0.854096526	0.742994171	0.742994175
8000	% of total	0.859777747	0.790890623	0.8563551	0.855363844	0.745723948	0.745723949
9000	% of total	0.860807008	0.792410467	0.8571936	0.856210644	0.747554969	0.747554971
10000	% of total	0.861928568	0.794069109	0.8581069	0.857133081	0.749555437	0.749555432
11000	% of total	0.887555858	0.829350872	0.8844065	0.883591024	0.789937915	0.789937916
12000	% of total	0.888116603	0.830208151	0.8848629	0.884052118	0.790995201	0.790995204
13000	% of total	0.888534361	0.830847277	0.8852029	0.88439561	0.791783857	0.791783856
14000	% of total	0.888879505	0.831375597	0.8854837	0.884679447	0.792436059	0.792436061
15000	% of total	0.889153687	0.831795481	0.8857068	0.884904845	0.79295457	0.792954572

Combined Percentages for Oilfield Emissions and Drilled Wells

	2012							
	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON
1000	0.060933171	0.052557575	0.062540104	0.0623754	0.047132005	0.047132006	0.055189899	0.047603747
2000	0.287408545	0.249505172	0.293867827	0.2931336	0.224783305	0.22478331	0.273800324	0.2376916
3000	0.19102663	0.166498017	0.194863289	0.1943915	0.150434494	0.150434495	0.198163288	0.172718298
4000	0.035993784	0.031457483	0.036658565	0.0365718	0.028478747	0.028478747	0.038568956	0.033708106
5000	0.062612977	0.054911826	0.063641417	0.0634951	0.049838213	0.049838212	0.064796695	0.056826956
6000	0.01742707	0.01599624	0.017368989	0.0173483	0.01505885	0.01505885	0.019225092	0.017646637
7000	0.01113281	0.010229763	0.011092105	0.0110791	0.009637896	0.009637896	0.011901945	0.01093651
8000	0.005829861	0.005362761	0.005806653	0.0057999	0.005056501	0.005056501	0.005419678	0.004985443
9000	0.008374596	0.007709182	0.008339443	0.0083299	0.007272793	0.007272793	0.008030726	0.007392634
10000	0.005336232	0.004916112	0.005312572	0.0053065	0.004640526	0.004640526	0.007171872	0.006607232
11000	0.006541538	0.006112551	0.006518326	0.0065123	0.005822066	0.005822066	0.006937527	0.006482571
12000	0.007069324	0.006608379	0.007043425	0.007037	0.006296247	0.006296247	0.009181236	0.008582586
13000	0.005239	0.004898864	0.005219357	0.0052146	0.004668537	0.004668537	0.008065365	0.00754173
14000	0.00157231	0.001470594	0.001566304	0.0015649	0.001401715	0.001401715	0.002241249	0.002096257
15000	0.000262133	0.000245223	0.000261116	0.0002609	0.000233772	0.000233772	0.000448388	0.000419463

Final % Reduction Given 0.4 Load Factor

	2012							
	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON
1000	0.012429154	0.010720699	0.012756937	0.0127234	0.009613991	0.009613991	0.011257641	0.009710217
2000	0.058625624	0.05089409	0.059943189	0.0597934	0.045851321	0.045851322	0.055849817	0.048484356
3000	0.038965631	0.033962282	0.039748233	0.039652	0.030685643	0.030685643	0.040421367	0.035231096
4000	0.007342016	0.006416701	0.007477618	0.0074599	0.005809098	0.005809098	0.0078673	0.006875783
5000	0.012771801	0.01120092	0.012981582	0.0129517	0.010166004	0.010166003	0.013217236	0.011591568
6000	0.003554776	0.003262915	0.003542928	0.0035387	0.003071706	0.003071706	0.003921536	0.003599563
7000	0.002270872	0.002086668	0.002262569	0.0022599	0.001965939	0.001965939	0.00242776	0.00223083
8000	0.001189176	0.001093896	0.001184442	0.0011831	0.001031426	0.001031426	0.001105506	0.001016931
9000	0.001708251	0.00157252	0.00170108	0.0016991	0.001483505	0.001483505	0.001638108	0.00150795
10000	0.001088485	0.001002789	0.001083659	0.0010824	0.000946575	0.000946575	0.001462919	0.001347744
11000	0.001334344	0.001246839	0.001329609	0.0013284	0.001187586	0.001187586	0.001415117	0.001322316
12000	0.001442001	0.001347978	0.001436719	0.0014354	0.001284309	0.001284309	0.001872789	0.001750677
13000	0.001068652	0.000999271	0.001064645	0.0010637	0.000952289	0.000952289	0.001645174	0.001538363
14000	0.00032072	0.000299972	0.000319495	0.0003192	0.000285922	0.000285922	0.00045717	0.000427595
15000	5.34698E-05	5.00206E-05	5.32625E-05	5.321E-05	4.76848E-05	4.76848E-05	9.14623E-05	8.55621E-05

Drilled Well Percentages by Year Associated with Each Well Depth

2012	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
0.089917453	0.081442259	0.081360202	0.081237425	0.081617278	0.081494483	0.081622434	0.0815	0.081377933	0.081505484	0.081383773	0.081510934	0.081389578
0.416863208	0.397125567	0.397229219	0.397635815	0.397287795	0.397693079	0.397596395	0.3975	0.398152771	0.398305085	0.397959184	0.397862823	0.397766749
0.274174528	0.284417549	0.284634761	0.28445674	0.284530387	0.284353059	0.28442664	0.28475	0.28457314	0.28439681	0.284221005	0.284294235	0.284367246
0.05129717	0.054967221	0.054911839	0.055080483	0.054997489	0.054914744	0.055082624	0.055	0.054917624	0.055084746	0.055002489	0.054920477	0.055086849
0.088443396	0.091527988	0.091435768	0.091297787	0.091411351	0.091524574	0.091387081	0.0915	0.091362956	0.091226321	0.091587855	0.091451292	0.091315136
0.020341981	0.022440746	0.022418136	0.022384306	0.022350578	0.022316951	0.022283425	0.02225	0.022216675	0.02218345	0.022648084	0.022614314	0.022580645
0.012971698	0.013867877	0.013853904	0.013832998	0.013812155	0.013791374	0.013770656	0.01375	0.013729406	0.013708873	0.013688402	0.013916501	0.013895782
0.00678066	0.00630358	0.006297229	0.006287726	0.006278252	0.006268806	0.006259389	0.00625	0.006240639	0.006231306	0.006222001	0.006212724	0.006203474
0.009728774	0.009329299	0.009319899	0.009305835	0.009291813	0.009277834	0.009263896	0.00925	0.009236146	0.009222333	0.009208561	0.009194831	0.009181141
0.006191038	0.008320726	0.008312343	0.008299799	0.008287293	0.008274824	0.008262394	0.00825	0.008237644	0.008225324	0.008213041	0.008200795	0.008188586
0.007370283	0.00781644	0.007808564	0.007796781	0.007785033	0.00777332	0.007761642	0.00775	0.007738392	0.00772682	0.007715281	0.007703777	0.007692308
0.007959906	0.010337872	0.010327456	0.010311871	0.010296334	0.010280843	0.010265398	0.01025	0.010234648	0.010219342	0.010204082	0.010188867	0.010173697
0.005896226	0.009077156	0.00906801	0.009054326	0.009040683	0.009027081	0.00901352	0.009	0.00898652	0.008973081	0.008959681	0.008946322	0.009181141
0.001768868	0.002521432	0.002518892	0.002515091	0.002511301	0.002507523	0.002503756	0.0025	0.002496256	0.002492522	0.0024888	0.002485089	0.00248139
0.000294811	0.000504286	0.000503778	0.000503018	0.00050226	0.000501505	0.000500751	0.0005	0.000499251	0.000498504	0.00049776	0.000497018	0.000496278

COTON	2015					2016						20
	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON
0.05664537	0.056496234	0.042689565	0.042689567	0.055134292	0.047555784	0.056588296	0.056439311	0.042646553	0.042646554	0.055051091	0.047484019	0.056502901
0.279953773	0.279254262	0.214140264	0.214140269	0.273871788	0.237753639	0.280026842	0.279327149	0.214196156	0.214196161	0.274152117	0.237996999	0.280313472
0.202143282	0.201653899	0.15605465	0.156054651	0.198314627	0.172850204	0.20229766	0.201807904	0.15617383	0.156173831	0.198190594	0.172742098	0.202171136
0.039281299	0.039188307	0.030516257	0.030516257	0.038530096	0.033674143	0.039241721	0.039148822	0.03048551	0.03048551	0.038648429	0.033777563	0.039362239
0.065861003	0.065709609	0.051576393	0.051576392	0.064731409	0.0567697	0.065794644	0.065643403	0.051524426	0.051524426	0.064633725	0.056684031	0.065695357
0.019161019	0.019138216	0.016612533	0.016612533	0.019205722	0.017628857	0.019141713	0.019118933	0.016595795	0.016595795	0.01917674	0.017602254	0.019112827
0.011858428	0.011844506	0.010303752	0.010303752	0.011889954	0.01092549	0.01184648	0.011832572	0.01029337	0.01029337	0.011872011	0.010909003	0.011828603
0.005398103	0.005391855	0.004700731	0.004700731	0.005414218	0.00498042	0.005392664	0.005386422	0.004695995	0.004695995	0.005406047	0.004972904	0.005384527
0.007997015	0.007987845	0.006974164	0.006974164	0.008022635	0.007385186	0.007988958	0.007979797	0.006967137	0.006967137	0.008010528	0.007374041	0.007976902
0.007140072	0.00713197	0.006236846	0.006236845	0.007164646	0.006600574	0.007132878	0.007124784	0.006230562	0.006230562	0.007153834	0.006590614	0.007122114
0.00691291	0.006906536	0.006174502	0.006174502	0.006930537	0.00647604	0.006905945	0.006899577	0.006168281	0.006168281	0.006920078	0.006466267	0.006895523
0.009147599	0.009139218	0.008177207	0.008177207	0.009171985	0.008573938	0.009138383	0.009130009	0.008168968	0.008168968	0.009158144	0.008561	0.009124592
0.008035124	0.008027797	0.007187145	0.007187145	0.008057239	0.007534131	0.008027029	0.008019708	0.007179904	0.007179904	0.00804508	0.007522762	0.008014915
0.002232687	0.002230659	0.001998074	0.001998074	0.002238991	0.002094145	0.002230438	0.002228412	0.001996061	0.001996061	0.002235612	0.002090985	0.002227072
0.00044665	0.000446246	0.000399876	0.000399876	0.000447936	0.000419041	0.0004462	0.000445796	0.000399473	0.000399473	0.00044726	0.000418408	0.000445527

COTON	2015					2016						20
	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON
0.011554528	0.011524108	0.008707822	0.008707822	0.011246298	0.009700433	0.011542886	0.011512496	0.008699048	0.008699048	0.011229327	0.009685795	0.011525467
0.057104998	0.056962312	0.043680352	0.043680353	0.055864394	0.048497011	0.057119903	0.05697718	0.043691753	0.043691754	0.055921576	0.048546652	0.05717837
0.041233207	0.041133382	0.031832043	0.031832043	0.040452237	0.035258002	0.041264697	0.041164796	0.031856353	0.031856354	0.040426937	0.03523595	0.041238888
0.008012603	0.007993635	0.006224709	0.006224709	0.007859373	0.006868855	0.00800453	0.007985581	0.006218437	0.006218437	0.00788351	0.006889951	0.008029114
0.013434334	0.013403453	0.010520558	0.010520558	0.013203919	0.011579889	0.013420798	0.013389948	0.010509958	0.010509958	0.013183994	0.011562414	0.013400545
0.003908467	0.003903815	0.003388626	0.003388626	0.003917585	0.003595936	0.003904529	0.003899882	0.003385212	0.003385212	0.003911673	0.00359051	0.003898636
0.002418883	0.002416043	0.00210176	0.00210176	0.002425314	0.002228583	0.002416446	0.002413609	0.002099643	0.002099643	0.002421654	0.00222522	0.0024128
0.001101106	0.001099831	0.000958856	0.000958856	0.001104393	0.001015906	0.001099996	0.001098723	0.000957889	0.000957889	0.001102726	0.001014373	0.001098336
0.001631232	0.001629361	0.001422591	0.001422591	0.001636458	0.001506431	0.001629588	0.00162772	0.001421157	0.001421157	0.001633988	0.001504158	0.001627129
0.001456433	0.00145478	0.001272192	0.001272192	0.001461445	0.001346386	0.001454965	0.001453314	0.001270911	0.001270911	0.00145924	0.001344354	0.00145277
0.001410096	0.001408796	0.001259476	0.001259476	0.001413692	0.001320983	0.001408675	0.001407376	0.001258207	0.001258207	0.001411558	0.00131899	0.00140655
0.001865928	0.001864219	0.001667988	0.001667988	0.001870902	0.001748913	0.001864048	0.00186234	0.001666307	0.001666307	0.001868079	0.001746274	0.001861235
0.001639005	0.001637511	0.001466035	0.001466035	0.001643516	0.001536813	0.001637354	0.001635861	0.001464558	0.001464558	0.001641036	0.001534494	0.001634883
0.000455424	0.00045501	0.000407567	0.000407567	0.00045671	0.000427164	0.000454965	0.000454552	0.000407157	0.000407157	0.00045602	0.000426519	0.000454278
9.11077E-05	9.10252E-05	8.15668E-05	8.15668E-05	9.13701E-05	8.54759E-05	9.10159E-05	9.09335E-05	8.14846E-05	8.14846E-05	9.12322E-05	8.53469E-05	9.08785E-05

Drilled Well Percentages by Year Associated with Each Well Depth

2027	2028	2029	2030	2031	2032	2033	2034	2035
0.081516353	0.081395349	0.081521739	0.081401085	0.081280788	0.08165273	0.081552444	0.081677704	0.081557678
0.397423191	0.39782286	0.397727273	0.397878638	0.398029557	0.397688146	0.397199705	0.397350993	0.397501837
0.28444004	0.284512618	0.28458498	0.284410459	0.284482759	0.284554845	0.284696635	0.284768212	0.284839579
0.055004955	0.054923305	0.054841897	0.0550074	0.054926108	0.055090999	0.055023336	0.05494236	0.054861621
0.091427156	0.09129144	0.091403162	0.091514554	0.09137931	0.091244466	0.09137804	0.091243561	0.091354396
0.022547076	0.022513607	0.022480237	0.022446966	0.022413793	0.022380718	0.02235323	0.022320334	0.022287534
0.013875124	0.013854527	0.013833992	0.013813518	0.013793103	0.01377275	0.013755834	0.01373559	0.013715405
0.006194252	0.006185057	0.006175889	0.006166749	0.006157635	0.006148549	0.006386637	0.006377238	0.006367867
0.009415263	0.009401286	0.009387352	0.009373458	0.009359606	0.009345794	0.009334316	0.009320579	0.009306882
0.008176412	0.008164275	0.008152174	0.008140109	0.008128079	0.008116085	0.008106116	0.008094187	0.008082292
0.007680872	0.007669471	0.007658103	0.007646769	0.007881773	0.007870143	0.007860477	0.007848909	0.007837374
0.010158573	0.010143493	0.010128458	0.010113468	0.010098522	0.01008362	0.010316875	0.010301692	0.010286554
0.009167493	0.009153884	0.009140316	0.009126788	0.0091133	0.009099852	0.009088676	0.0090753	0.009061964
0.002477701	0.002474023	0.002470356	0.0024667	0.002463054	0.00245942	0.002456399	0.002452784	0.00244918
0.00049554	0.000494805	0.000494071	0.00049334	0.000492611	0.000491884	0.00049128	0.000490557	0.000489836

17						2018						2019					
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON
0.056354141	0.042582197	0.042582198	0.055308501	0.047706047	0.0567671	0.056617644	0.042781304	0.042781306	0.055225289	0.047634273	0.056681693	0.056532462	0.042716939	0.042716941	0.055311995	0.047709061
0.279613063	0.214415403	0.214415407	0.273912173	0.237788699	0.280068135	0.279368339	0.214227742	0.214227746	0.274191598	0.238031273	0.28035384	0.27965333	0.214446281	0.214446286	0.274124939	0.237973405
0.201681686	0.156076153	0.156076155	0.198241906	0.172786821	0.202223479	0.201733902	0.156116562	0.156116563	0.198118356	0.172679135	0.202097447	0.201608176	0.156019265	0.156019267	0.198169622	0.172723819
0.039269055	0.030579136	0.030579136	0.038590194	0.033726667	0.039302929	0.039209885	0.03053306	0.03053306	0.038532135	0.033675925	0.039243797	0.039150893	0.030487123	0.030487123	0.038649931	0.033778876
0.065544343	0.051446673	0.051446673	0.064714123	0.05675454	0.065777075	0.065625873	0.051510667	0.051510667	0.064794278	0.056824836	0.065858546	0.065707158	0.051574469	0.051574468	0.06469694	0.056739471
0.019090081	0.016570751	0.016570751	0.019147844	0.017575732	0.019084028	0.019061317	0.016545782	0.016545782	0.019119036	0.017549289	0.019055316	0.019032639	0.016520889	0.016520889	0.019090315	0.017522925
0.011814716	0.010277837	0.010277837	0.011854122	0.010892566	0.01181078	0.011796913	0.01026235	0.01026235	0.011836288	0.010876178	0.01179301	0.011779165	0.010246911	0.010246911	0.011818507	0.010859839
0.005378294	0.004688908	0.004688908	0.005397901	0.004965411	0.005376413	0.00537019	0.004681843	0.004681843	0.00538978	0.00495794	0.005368324	0.00536211	0.004674799	0.004674799	0.005381683	0.004950492
0.007967755	0.006956623	0.006956623	0.007998458	0.00736293	0.007964883	0.007955749	0.006946141	0.006946141	0.007986424	0.007351852	0.0079529	0.00794378	0.006935691	0.006935691	0.007974426	0.007340808
0.007114032	0.006221159	0.006221159	0.007143054	0.006580683	0.007111383	0.007103313	0.006211785	0.006211785	0.007132308	0.006570782	0.007100684	0.007092626	0.00620244	0.00620244	0.007121593	0.006560912
0.006889165	0.006158973	0.006158973	0.006909651	0.006456524	0.006885133	0.006878785	0.006149692	0.006149692	0.006899256	0.00644681	0.006874774	0.006868436	0.00614044	0.00614044	0.006888891	0.006437125
0.009116232	0.008156641	0.008156641	0.009144345	0.0085481	0.009110843	0.009102495	0.00814435	0.00814435	0.009130587	0.008535239	0.009097136	0.009088801	0.008132097	0.008132097	0.00911687	0.008522417
0.008007606	0.007169069	0.007169069	0.008032958	0.007511427	0.008002839	0.00799554	0.007158267	0.007158267	0.008020872	0.007500126	0.007990798	0.007983511	0.007147497	0.007147497	0.008008822	0.007488859
0.002225049	0.001993048	0.001993048	0.002232244	0.002087834	0.002223716	0.002221696	0.001990045	0.001990045	0.002228885	0.002084693	0.00222037	0.002218354	0.001987051	0.001987051	0.002225537	0.002081561
0.000445123	0.000398871	0.000398871	0.000446586	0.000417778	0.000444855	0.000444452	0.000398269	0.000398269	0.000445915	0.000417149	0.000444186	0.000443784	0.00039767	0.00039767	0.000445245	0.000416523

17						2018						2019					
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON
0.011495123	0.008685921	0.008685921	0.011281834	0.009731084	0.011579359	0.011548873	0.008726535	0.008726535	0.01126486	0.009716444	0.011561937	0.011531497	0.008713406	0.008713406	0.011282546	0.009731699
0.0570355	0.043736475	0.043736476	0.055872632	0.048504162	0.057128326	0.056985582	0.043698196	0.043698197	0.05592963	0.048553643	0.057186604	0.057043714	0.043742774	0.043742775	0.055916032	0.048541839
0.04113905	0.031836429	0.03183643	0.040437404	0.035245073	0.041249565	0.041149701	0.031844672	0.031844672	0.040412202	0.035223107	0.041223857	0.041124056	0.031824825	0.031824826	0.040422659	0.035232222
0.008010106	0.006237535	0.006237535	0.007871632	0.006879569	0.008017015	0.007998036	0.006228137	0.006228137	0.007859789	0.006869219	0.008004954	0.007986003	0.006218766	0.006218766	0.007883817	0.006890218
0.013369742	0.010494098	0.010494097	0.013200393	0.011576797	0.013417214	0.013386372	0.010507151	0.010507151	0.013216743	0.011591136	0.013433833	0.013402953	0.010520165	0.010520165	0.013196888	0.011573723
0.003893997	0.003380103	0.003380103	0.003905779	0.0035851	0.003892762	0.003888129	0.00337501	0.00337501	0.003899903	0.003579706	0.003886905	0.00388228	0.003369933	0.003369933	0.003894044	0.003574328
0.002409967	0.002096474	0.002096474	0.002418005	0.002221867	0.002409164	0.002406336	0.002093315	0.002093315	0.002414367	0.002218524	0.002405539	0.002402715	0.002090166	0.002090166	0.00241074	0.002215191
0.001097065	0.000956444	0.000956444	0.001101064	0.001012845	0.001096681	0.001095412	0.000955003	0.000955003	0.001099408	0.001011321	0.001095031	0.001093764	0.000953566	0.000953566	0.001097756	0.001009802
0.001625263	0.001419013	0.001419013	0.001631526	0.001501891	0.001624678	0.001622815	0.001416875	0.001416875	0.001629072	0.001499632	0.001622233	0.001620373	0.001414743	0.001414743	0.001626624	0.001497379
0.001451121	0.001268993	0.001268993	0.001457041	0.001342328	0.001450581	0.001448934	0.001267081	0.001267081	0.001454849	0.001340309	0.001448398	0.001446755	0.001265174	0.001265174	0.001452663	0.001338295
0.001405253	0.001256308	0.001256308	0.001409431	0.001317002	0.00140443	0.001403135	0.001254415	0.001254415	0.001407311	0.001315021	0.001402317	0.001401024	0.001252528	0.001252528	0.001405197	0.001313045
0.00185953	0.001663792	0.001663792	0.001865264	0.001743642	0.001858431	0.001856728	0.001661285	0.001661285	0.001862458	0.001741019	0.001855635	0.001853934	0.001658786	0.001658786	0.00185966	0.001738404
0.001633392	0.001462347	0.001462347	0.001638563	0.001532182	0.00163242	0.001630931	0.001460144	0.001460144	0.001636098	0.001529876	0.001629964	0.001628477	0.001457947	0.001457947	0.00163364	0.001527578
0.000453866	0.000406542	0.000406542	0.000455333	0.000425877	0.000453594	0.000453182	0.00040593	0.00040593	0.000454648	0.000425236	0.000452911	0.0004525	0.000405319	0.000405319	0.000453965	0.000424597
9.07963E-05	8.13616E-05	8.13616E-05	9.10948E-05	8.52183E-05	9.07416E-05	9.06595E-05	8.12391E-05	8.12391E-05	9.09577E-05	8.50901E-05	9.06051E-05	9.05231E-05	8.11168E-05	8.11168E-05	9.08211E-05	8.49623E-05

Drilled Well Percentages by Year Associated with Each Well Depth

2020						2021						2022				
COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
0.056770686	0.056621221	0.042784007	0.042784008	0.055229027	0.047637497	0.05668553	0.056536289	0.042719831	0.042719832	0.055146308	0.047566148	0.056600629	0.056451612	0.042655847	0.042655849	0.055232743
0.280285683	0.279585343	0.214394146	0.214394151	0.274058479	0.23791571	0.280217729	0.279517559	0.214342168	0.214342173	0.274508535	0.238306413	0.2806779	0.27997658	0.214694159	0.214694163	0.274613549
0.202149743	0.201660345	0.156059638	0.156059639	0.198394918	0.172920185	0.202379564	0.201889609	0.156237059	0.156237061	0.198271694	0.172812784	0.202253865	0.201764215	0.15614002	0.156140021	0.198148838
0.039363769	0.039270582	0.030580325	0.030580325	0.038591956	0.033728207	0.039304724	0.039211676	0.030534454	0.030534454	0.038534155	0.033677691	0.039245855	0.039152946	0.030488721	0.030488721	0.03865142
0.06575961	0.065608449	0.051496991	0.05149699	0.064776881	0.056809579	0.065840864	0.065689516	0.051560621	0.051560621	0.064679861	0.056724492	0.06574225	0.065591129	0.051483396	0.051483396	0.064583132
0.01902669	0.019004047	0.01649607	0.01649607	0.019061679	0.017496641	0.01899815	0.018975541	0.016471326	0.016471326	0.019033129	0.017470435	0.018969696	0.01894712	0.016446656	0.016446656	0.019004665
0.011775294	0.011761469	0.010231517	0.010231517	0.011800779	0.010843549	0.011757631	0.011743827	0.01021617	0.01021617	0.011783104	0.010827308	0.011740021	0.011726238	0.010200869	0.010200869	0.011765482
0.00536026	0.005354055	0.004667776	0.004667776	0.005373611	0.004943066	0.005352219	0.005346024	0.004660775	0.004660775	0.005365563	0.004935663	0.005344203	0.005338017	0.004653794	0.004653794	0.005357538
0.007940952	0.007931846	0.006925271	0.006925271	0.007962465	0.007329797	0.007929041	0.007919948	0.006914883	0.006914883	0.007950539	0.007318819	0.007917165	0.007908086	0.006904527	0.006904527	0.007938649
0.007090017	0.007081971	0.006193122	0.006193122	0.007110911	0.00655107	0.007079382	0.007071348	0.006183832	0.006183832	0.00710026	0.006541258	0.007068779	0.007060757	0.00617457	0.00617457	0.007089642
0.006864447	0.006858118	0.006131216	0.006131216	0.006878558	0.006427469	0.00685415	0.00684783	0.006122019	0.006122019	0.006868256	0.006417842	0.006843884	0.006837574	0.00611285	0.00611285	0.006857984
0.00908347	0.009075147	0.008119881	0.008119881	0.009103195	0.008509634	0.009069845	0.009061534	0.008107701	0.008107701	0.009089561	0.008496888	0.00905626	0.009047962	0.008095557	0.008095557	0.009075967
0.007978794	0.007971518	0.00713676	0.00713676	0.007996809	0.007477625	0.007966826	0.00795956	0.007126055	0.007126055	0.007984832	0.007466426	0.007954893	0.007947639	0.007115382	0.007115382	0.007972891
0.002217035	0.002215021	0.001984066	0.001984066	0.002222199	0.002078439	0.002213709	0.002211699	0.00198109	0.00198109	0.00221887	0.002075326	0.002210394	0.002208386	0.001978123	0.001978123	0.002215552
0.000443519	0.000443117	0.000397073	0.000397073	0.000444577	0.000415898	0.000442853	0.000442452	0.000396477	0.000396477	0.000443911	0.000415275	0.00044219	0.00044179	0.000395883	0.000395883	0.000443247

2020						2021						2022				
COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
0.01158009	0.011549602	0.008727086	0.008727086	0.011265622	0.009717101	0.01156272	0.011532278	0.008713995	0.008713996	0.011248749	0.009702548	0.011545402	0.011515005	0.008700944	0.008700944	0.01126638
0.057172701	0.057029846	0.043732139	0.04373214	0.055902476	0.04853007	0.05715884	0.05701602	0.043721537	0.043721538	0.055994278	0.048609766	0.057252706	0.057109651	0.043793336	0.043793337	0.056015699
0.041234525	0.041134697	0.03183306	0.031833061	0.040468615	0.035272277	0.041281404	0.041181463	0.031869251	0.031869251	0.04044348	0.035250369	0.041255763	0.041155885	0.031849457	0.031849457	0.04041842
0.008029426	0.008010417	0.006237778	0.006237778	0.007871991	0.006879883	0.008017381	0.007998402	0.006228421	0.006228421	0.007860201	0.006869579	0.008005373	0.007986422	0.006219092	0.006219092	0.00788412
0.013413652	0.013382818	0.010504361	0.010504361	0.013213195	0.011588024	0.013430226	0.013399354	0.010517341	0.010517341	0.013193405	0.011570668	0.013410111	0.013379285	0.010501588	0.010501588	0.013173674
0.003881066	0.003876447	0.00336487	0.00336487	0.003888203	0.003568967	0.003875245	0.003870633	0.003359823	0.003359823	0.00388238	0.003563621	0.00386944	0.003864835	0.003354791	0.003354791	0.003876573
0.002401926	0.002399106	0.002087026	0.002087026	0.002407124	0.002211868	0.002398323	0.002395507	0.002083895	0.002083895	0.002403519	0.002208555	0.002394731	0.002391919	0.002080774	0.002080774	0.002399924
0.001093386	0.001092121	0.000952133	0.000952133	0.00109611	0.001008287	0.001091746	0.001090483	0.000950705	0.000950705	0.001094468	0.001006777	0.001090111	0.001088849	0.000949281	0.000949281	0.001092831
0.001619796	0.001617939	0.001412618	0.001412618	0.001624184	0.001495133	0.001617367	0.001615512	0.001410499	0.001410499	0.001621752	0.001492893	0.001614944	0.001613092	0.001408386	0.001408386	0.001619326
0.001446222	0.001444581	0.001263274	0.001263274	0.001450484	0.001336288	0.001444053	0.001442414	0.001261379	0.001261379	0.001448312	0.001334287	0.00144189	0.001440254	0.00125949	0.001259489	0.001446146
0.001400211	0.00139892	0.001250646	0.001250646	0.001403089	0.001311076	0.00139811	0.001396821	0.00124877	0.00124877	0.001400987	0.001309112	0.001396016	0.001394729	0.0012469	0.0012469	0.001398892
0.001852847	0.001851149	0.001656294	0.001656294	0.001856871	0.001735796	0.001850068	0.001848373	0.00165381	0.00165381	0.00185409	0.001733196	0.001847297	0.001845604	0.001651333	0.001651333	0.001851317
0.001627515	0.001626031	0.001455757	0.001455757	0.00163119	0.001525287	0.001625074	0.001623592	0.001453573	0.001453573	0.001628747	0.001523002	0.00162264	0.00162116	0.001451396	0.001451396	0.001626311
0.000452231	0.00045182	0.00040471	0.00040471	0.000453284	0.00042396	0.000451553	0.000451143	0.000404103	0.000404103	0.000452605	0.000423325	0.000450876	0.000450467	0.000403498	0.000403498	0.000451929
9.0469E-05	9.03871E-05	8.0995E-05	8.0995E-05	9.06848E-05	8.48349E-05	9.03333E-05	9.02515E-05	8.08735E-05	8.08735E-05	9.0549E-05	8.47078E-05	9.0198E-05	9.01163E-05	8.07523E-05	8.07523E-05	9.04136E-05

Drilled Well Percentages by Year Associated with Each Well Depth

2023						2024						2025					
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	
0.047640702	0.056689344	0.056540093	0.042722705	0.042722707	0.055150265	0.047569561	0.056604691	0.056455663	0.042658908	0.04265891	0.055236437	0.047643888	0.056693135	0.056543874	0.042725562	0.042725564	
0.238397577	0.280785274	0.280083686	0.21477629	0.214776295	0.274375065	0.238190545	0.280541431	0.279840452	0.214589771	0.214589776	0.274308629	0.23813287	0.280473501	0.279772692	0.214537811	0.214537816	
0.172705703	0.202128542	0.201639195	0.15604327	0.156043272	0.19802635	0.172598943	0.202003593	0.201514549	0.15594681	0.155946811	0.198077371	0.172643413	0.202055639	0.201566469	0.155986989	0.155986991	
0.033780177	0.039365286	0.039272094	0.030581503	0.030581503	0.038593703	0.033729733	0.039306502	0.03921345	0.030535836	0.030535836	0.038536157	0.033679441	0.039247894	0.039154981	0.030490306	0.030490305	
0.05663966	0.065643932	0.065493037	0.051406402	0.051406402	0.064839077	0.056864125	0.065904082	0.065752588	0.051610128	0.051610127	0.064742399	0.056779338	0.065805815	0.065654548	0.051533174	0.051533174	
0.017444308	0.018941326	0.018918785	0.01642206	0.01642206	0.019402719	0.01780968	0.019338054	0.01931504	0.016766021	0.016766021	0.019373789	0.017783125	0.01930922	0.01928624	0.016741022	0.016741022	
0.010811116	0.011722464	0.011708701	0.010185613	0.010185613	0.011747913	0.010794972	0.011704959	0.011691217	0.010170403	0.010170403	0.011943676	0.010974856	0.011900006	0.011886035	0.010339879	0.010339879	
0.004928282	0.005336211	0.005330034	0.004646834	0.004646834	0.005349538	0.004920922	0.005328242	0.005322075	0.004639895	0.004639895	0.005341562	0.004913585	0.005320298	0.005314139	0.004632977	0.004632977	
0.007307873	0.007905325	0.00789626	0.006894201	0.006894201	0.007926794	0.00729696	0.00789352	0.007884468	0.006883906	0.006883906	0.007914975	0.00728608	0.00788175	0.007872712	0.006873642	0.006873642	
0.006531476	0.007058207	0.007050197	0.006165336	0.006165336	0.007079055	0.006521722	0.007047667	0.007039669	0.00615613	0.00615613	0.0070685	0.006511998	0.007037159	0.007029173	0.006146951	0.006146951	
0.006408245	0.006833649	0.006827348	0.006103708	0.006103708	0.006847743	0.006398675	0.006823445	0.006817153	0.006094593	0.006094593	0.006837533	0.006389134	0.00681327	0.006806989	0.006085506	0.006085506	
0.008484181	0.009042717	0.009034431	0.00808345	0.00808345	0.009062414	0.008471512	0.009029213	0.00902094	0.00807138	0.00807138	0.009048902	0.00845888	0.00901575	0.009007489	0.008059345	0.008059345	
0.00745526	0.007942997	0.007935753	0.00710474	0.00710474	0.007960985	0.007444127	0.007931136	0.007923903	0.007094131	0.007094131	0.007949115	0.007433027	0.00791931	0.007912088	0.007083553	0.007083553	
0.002072222	0.002207088	0.002205083	0.001975165	0.001975165	0.002212244	0.002069128	0.002203792	0.002201791	0.001972215	0.001972215	0.002208945	0.002066043	0.002200506	0.002198508	0.001969275	0.001969275	
0.000414654	0.000441529	0.000441129	0.000395291	0.000395291	0.000442585	0.000414035	0.000440869	0.00044047	0.000394701	0.000394701	0.000441925	0.000413417	0.000440212	0.000439814	0.000394113	0.000394113	

2023						2024						2025					
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	
0.009717755	0.011563498	0.011533054	0.008714582	0.008714582	0.011249557	0.009703244	0.01154623	0.011515832	0.008701568	0.008701569	0.011267134	0.009718405	0.011564271	0.011533825	0.008715164	0.008715165	
0.048628361	0.057274608	0.057131498	0.043810089	0.04381009	0.055967053	0.048586131	0.057224869	0.057081883	0.043772043	0.043772044	0.055953501	0.048574367	0.057211013	0.057068062	0.043761444	0.043761445	
0.035228527	0.0412302	0.041130383	0.031829722	0.031829722	0.040393434	0.03520675	0.041204713	0.041104958	0.031810046	0.031810046	0.040403842	0.035215821	0.041215329	0.041115548	0.031818242	0.031818242	
0.006890484	0.008029735	0.008010726	0.006238018	0.006238018	0.007872347	0.006880194	0.008017744	0.007998763	0.006228703	0.006228703	0.007860609	0.006869936	0.008005789	0.007986837	0.006219416	0.006219416	
0.011553364	0.013390056	0.013359276	0.010485883	0.010485883	0.013225881	0.01159915	0.013443121	0.013412219	0.010527439	0.010527439	0.013206161	0.011581855	0.013423077	0.013392221	0.010511742	0.010511742	
0.003558292	0.003863654	0.003859056	0.003349773	0.003349773	0.003957769	0.00363282	0.003944578	0.003939884	0.003419935	0.003419935	0.003951867	0.003627404	0.003938697	0.003934009	0.003414835	0.003414835	
0.002205253	0.002391149	0.002388342	0.002077662	0.002077662	0.002396341	0.002201959	0.002387579	0.002384776	0.00207456	0.00207456	0.002436272	0.002238652	0.002427364	0.002424515	0.00210913	0.00210913	
0.001005271	0.001088481	0.001087221	0.000947862	0.000947862	0.001091199	0.00100377	0.001086855	0.001085597	0.000946446	0.000946446	0.001089572	0.001002274	0.001085235	0.001083979	0.000945035	0.000945035	
0.001490661	0.001612529	0.00161068	0.00140628	0.00140628	0.001616908	0.001488435	0.001610121	0.001608275	0.00140418	0.00140418	0.001614497	0.001486215	0.00160772	0.001605877	0.001402086	0.001402086	
0.001332291	0.001439734	0.0014381	0.001257606	0.001257606	0.001443986	0.001330302	0.001437584	0.001435952	0.001255728	0.001255728	0.001441833	0.001328318	0.00143544	0.001433811	0.001253856	0.001253856	
0.001307154	0.001393928	0.001392643	0.001245035	0.001245035	0.001396803	0.001305202	0.001391847	0.001390564	0.001243176	0.001243176	0.001394721	0.001303256	0.001389772	0.00138849	0.001241322	0.001241322	
0.001730604	0.001844534	0.001842844	0.001648863	0.001648863	0.001848552	0.00172802	0.00184178	0.001840092	0.001646401	0.001646401	0.001845796	0.001725443	0.001839034	0.001837349	0.001643946	0.001643946	
0.001520725	0.001620213	0.001618736	0.001449226	0.001449226	0.001623882	0.001518454	0.001617794	0.001616319	0.001447062	0.001447062	0.001621461	0.00151619	0.001615382	0.001613908	0.001444904	0.001444904	
0.000422692	0.000450202	0.000449793	0.000402894	0.000402894	0.000451254	0.000422061	0.00044953	0.000449121	0.000402293	0.000402293	0.000450581	0.000421432	0.000448859	0.000448452	0.000401693	0.000401693	
8.45811E-05	9.00631E-05	8.99815E-05	8.06316E-05	8.06316E-05	9.02786E-05	8.44548E-05	8.99286E-05	8.98472E-05	8.05112E-05	8.05112E-05	9.0144E-05	8.43289E-05	8.97945E-05	8.97132E-05	8.03911E-05	8.03911E-05	

Drilled Well Percentages by Year Associated with Each Well Depth

2026						2027						2028				
NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON
0.055154199	0.047572955	0.056608729	0.05645969	0.042661951	0.042661953	0.055240109	0.047647055	0.056696904	0.056547633	0.042728403	0.042728404	0.05515811	0.047576328	0.056612742	0.056463693	0.042664976
0.274242391	0.238075367	0.280405774	0.279705134	0.214486006	0.214486011	0.274005523	0.237869737	0.280163583	0.279463548	0.214300751	0.214300755	0.274281076	0.238108951	0.280445329	0.279744591	0.214516262
0.19812824	0.17268775	0.20210753	0.201618234	0.156027049	0.156027051	0.198178958	0.172731956	0.202159266	0.201669845	0.15606699	0.156066991	0.198229526	0.17277603	0.202210849	0.201721303	0.156106812
0.038652896	0.033781466	0.039366789	0.039273594	0.03058267	0.03058267	0.038595433	0.033731246	0.039308265	0.039215209	0.030537206	0.030537205	0.038538142	0.033681175	0.039249915	0.039156997	0.030491876
0.064646008	0.056694803	0.065707841	0.065556799	0.05145645	0.05145645	0.064725311	0.056764352	0.065788447	0.065637219	0.051519573	0.051519573	0.064629232	0.05668009	0.06569079	0.065539787	0.051443097
0.019344944	0.017756649	0.019280471	0.019257526	0.016716098	0.016716098	0.019316186	0.017730252	0.019251809	0.019228898	0.016691247	0.016691247	0.019287513	0.017703933	0.019223231	0.019200354	0.01666647
0.011925894	0.010958516	0.011882289	0.011868339	0.010324485	0.010324485	0.011908165	0.010942225	0.011864625	0.011850695	0.010309136	0.010309136	0.011890488	0.010925982	0.011847013	0.011833104	0.010293833
0.005333609	0.004906269	0.005312377	0.005306227	0.004626079	0.004626079	0.00532568	0.004898976	0.005304479	0.005298339	0.004619202	0.004619202	0.005317774	0.004891704	0.005296605	0.005290474	0.004612345
0.007903191	0.007275233	0.007870016	0.007860991	0.006863408	0.006863408	0.008104724	0.007460753	0.008070703	0.008061448	0.007038426	0.007038426	0.008092693	0.007449678	0.008058723	0.008049482	0.007027978
0.007057976	0.006502303	0.007026682	0.007018708	0.006137799	0.006137799	0.007047483	0.006492636	0.007016236	0.007008273	0.006128674	0.006128674	0.007037022	0.006482999	0.007005821	0.00699787	0.006119577
0.006827353	0.006379622	0.006803127	0.006796854	0.006076446	0.006076446	0.006817203	0.006370138	0.006793013	0.00678675	0.006067412	0.006067412	0.006807084	0.006360682	0.006782929	0.006776675	0.006058406
0.009035429	0.008446286	0.009002327	0.008994079	0.008047346	0.008047346	0.009021997	0.00843373	0.008988944	0.008980708	0.008035382	0.008035382	0.009008605	0.008421211	0.008975601	0.008967377	0.008023455
0.00815776	0.007628126	0.008127173	0.008119761	0.00726948	0.00726948	0.008145632	0.007616786	0.008115091	0.00810769	0.007258673	0.007258673	0.008133541	0.00760548	0.008103045	0.008095655	0.007247898
0.002205656	0.002062967	0.00219723	0.002195234	0.001966343	0.001966343	0.002202377	0.0020599	0.002193964	0.002191971	0.001963419	0.001963419	0.002199108	0.002056842	0.002190707	0.002188717	0.001960505
0.000441267	0.000412802	0.000439557	0.000439159	0.000393526	0.000393526	0.000440611	0.000412188	0.000438903	0.000438506	0.000392941	0.000392941	0.000439957	0.000411576	0.000438252	0.000437855	0.000392358

2026						2027						2028				
NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON
0.011250359	0.009703936	0.011547054	0.011516653	0.008702189	0.008702189	0.011267883	0.009719051	0.01156504	0.011534592	0.008715744	0.008715744	0.011251157	0.009704624	0.011547873	0.01151747	0.008702806
0.05593999	0.048562637	0.057197198	0.057054281	0.043750877	0.043750878	0.055891674	0.048520693	0.057147796	0.057005002	0.043713088	0.043713089	0.055947881	0.048569488	0.057205266	0.057062329	0.043757049
0.040414218	0.035224864	0.041225914	0.041126107	0.031826413	0.031826413	0.040424564	0.035233882	0.041236467	0.041136635	0.03183456	0.03183456	0.040434878	0.035242872	0.041246989	0.041147132	0.031842683
0.007884421	0.006890747	0.008030041	0.008011032	0.006238256	0.006238256	0.0078727	0.006880503	0.008018104	0.007999122	0.006228982	0.006228982	0.007861014	0.006870289	0.008006202	0.007987248	0.006219736
0.013186499	0.011564612	0.013403092	0.013372282	0.010496092	0.010496092	0.013202675	0.011578798	0.013419534	0.013388687	0.010508968	0.010508968	0.013183077	0.01156161	0.013399614	0.013368812	0.010493368
0.003945984	0.003622003	0.003932832	0.003928152	0.003409751	0.003409751	0.003940117	0.003616618	0.003926986	0.003922312	0.003404682	0.003404682	0.003934269	0.00361125	0.003921157	0.00391649	0.003399628
0.002432645	0.002235319	0.002423751	0.002420905	0.002105989	0.002105989	0.002429029	0.002231996	0.002420147	0.002417306	0.002102859	0.002102859	0.002425423	0.002228683	0.002416555	0.002413718	0.002099737
0.00108795	0.001000781	0.001083619	0.001082365	0.000943628	0.000943628	0.001086333	0.000999294	0.001082008	0.001080756	0.000942225	0.000942225	0.00108472	0.00099781	0.001080402	0.001079151	0.000940827
0.001612094	0.001484003	0.001605327	0.001603486	0.001399999	0.001399999	0.001653202	0.001521845	0.001646263	0.001644375	0.001435699	0.001435699	0.001650748	0.001519586	0.001643819	0.001641934	0.001433568
0.001439687	0.00132634	0.001433303	0.001431677	0.001251989	0.001251989	0.001437546	0.001324369	0.001431172	0.001429548	0.001250128	0.001250128	0.001435412	0.001322403	0.001429048	0.001427426	0.001248272
0.001392644	0.001301316	0.001387702	0.001386423	0.001239474	0.001239474	0.001390574	0.001299381	0.001385639	0.001384362	0.001237631	0.001237631	0.00138851	0.001297453	0.001383583	0.001382307	0.001235794
0.001843048	0.001722874	0.001836296	0.001834613	0.001641498	0.001641498	0.001840308	0.001720313	0.001833566	0.001831886	0.001639058	0.001639058	0.001837576	0.001717759	0.001830844	0.001829166	0.001636625
0.001664021	0.001555986	0.001657781	0.00165627	0.001482829	0.001482829	0.001661547	0.001553673	0.001655317	0.001653807	0.001480625	0.001480625	0.00165908	0.001551367	0.00165286	0.001651353	0.001478427
0.00044991	0.000420804	0.000448191	0.000447784	0.000401095	0.000401095	0.000449241	0.000420179	0.000447525	0.000447118	0.000400498	0.000400498	0.000448574	0.000419555	0.000446861	0.000446455	0.000399904
9.00098E-05	8.42033E-05	8.96608E-05	8.95796E-05	8.02714E-05	8.02714E-05	8.98759E-05	8.40782E-05	8.95275E-05	8.94465E-05	8.01521E-05	8.01521E-05	8.97425E-05	8.39534E-05	8.93946E-05	8.93137E-05	8.00331E-05

Drilled Well Percentages by Year Associated with Each Well Depth

2029						2030						2031								
PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON
0.042664978	0.055243759	0.047650204	0.05670065	0.056551369	0.042731226	0.042731227	0.055162	0.04758	0.056617	0.056468	0.042668	0.042668	0.05508	0.047509	0.056533	0.056384	0.042605	0.042605	0.055333	0.047727
0.214516267	0.274215173	0.238051739	0.280377945	0.279677375	0.214464719	0.214464724	0.27432	0.238142	0.280485	0.279784	0.214546	0.214546	0.274424	0.238233	0.280591	0.27989	0.214628	0.214628	0.274188	0.238028
0.156106814	0.198279943	0.172819974	0.20226228	0.201772609	0.156146516	0.156146518	0.198158	0.172714	0.202138	0.201649	0.156051	0.156051	0.198209	0.172758	0.20219	0.2017	0.15609	0.15609	0.198259	0.172802
0.030491876	0.03848102	0.033631252	0.039191739	0.039098958	0.03044668	0.03044668	0.038597	0.033733	0.03931	0.039217	0.030539	0.030539	0.03854	0.033683	0.039252	0.039159	0.030493	0.030493	0.038656	0.033784
0.051443096	0.064708325	0.056749455	0.065771182	0.065619994	0.051506053	0.051506052	0.064787	0.056819	0.065851	0.0657	0.051569	0.051569	0.064691	0.056735	0.065754	0.065603	0.051493	0.051493	0.064596	0.056651
0.01666647	0.019258924	0.017677692	0.019194738	0.019171895	0.016641767	0.016641767	0.01923	0.017652	0.019166	0.019144	0.016617	0.016617	0.019202	0.017625	0.019138	0.019115	0.016593	0.016593	0.019174	0.017599
0.010293833	0.011872864	0.010909787	0.011829453	0.011815565	0.010278575	0.010278576	0.011855	0.010894	0.011812	0.011798	0.010263	0.010263	0.011838	0.010878	0.011794	0.011781	0.010248	0.010248	0.01182	0.010861
0.004612345	0.005309892	0.004884453	0.005288754	0.005282632	0.004605509	0.004605509	0.005302	0.004877	0.005281	0.005275	0.004599	0.004599	0.005294	0.00487	0.005273	0.005267	0.004592	0.004592	0.005286	0.004863
0.007027978	0.008080698	0.007438636	0.008046778	0.008037551	0.007017561	0.007017561	0.008069	0.007428	0.008035	0.008026	0.007007	0.007007	0.008057	0.007417	0.008023	0.008014	0.006997	0.006997	0.008045	0.007406
0.006119577	0.007026592	0.006473389	0.006995437	0.006987498	0.006110506	0.006110506	0.007016	0.006464	0.006985	0.006977	0.006101	0.006101	0.007006	0.006454	0.006975	0.006967	0.006092	0.006092	0.006995	0.006445
0.006058406	0.006796994	0.006351254	0.006772876	0.006766631	0.006049426	0.006049426	0.006787	0.006342	0.006763	0.006757	0.00604	0.00604	0.006996	0.006537	0.006971	0.006964	0.006226	0.006226	0.006985	0.006527
0.008023455	0.008995252	0.008408729	0.008962297	0.008954085	0.008011562	0.008011562	0.008982	0.008396	0.008949	0.008941	0.008	0.008	0.008969	0.008384	0.008936	0.008928	0.007988	0.007988	0.008955	0.008372
0.007247898	0.008121485	0.007594207	0.008091034	0.008083656	0.007237155	0.007237155	0.008109	0.007583	0.008079	0.008072	0.007226	0.007226	0.008097	0.007572	0.008067	0.00806	0.007216	0.007216	0.008086	0.007561
0.001960505	0.002195849	0.002053793	0.00218746	0.002185473	0.001957599	0.001957599	0.002193	0.002051	0.002184	0.002182	0.001955	0.001955	0.002189	0.002048	0.002181	0.002179	0.001952	0.001952	0.002186	0.002045
0.000392358	0.000439305	0.000410966	0.000437602	0.000437206	0.000391776	0.000391776	0.000439	0.00041	0.000437	0.000437	0.000391	0.000391	0.000438	0.00041	0.000436	0.000436	0.000391	0.000391	0.000437	0.000409

2029						2030						2031								
PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON
0.008702806	0.011268627	0.009719693	0.011565804	0.011535354	0.00871632	0.00871632	0.011252	0.009705	0.011549	0.011518	0.008703	0.008703	0.011235	0.009691	0.011532	0.011501	0.008691	0.008691	0.011287	0.009735
0.043757049	0.055934438	0.048557817	0.057191521	0.057048619	0.043746535	0.043746536	0.055956	0.048576	0.057213	0.05707	0.043763	0.043763	0.055977	0.048595	0.057235	0.057092	0.04378	0.04378	0.055929	0.048553
0.031842683	0.040445163	0.035251835	0.04125748	0.041157597	0.031850782	0.031850782	0.04042	0.03523	0.041232	0.041132	0.031831	0.031831	0.040431	0.035239	0.041243	0.041143	0.031839	0.031839	0.040441	0.035248
0.006219736	0.007849362	0.006860106	0.007994335	0.007975409	0.006210517	0.006210517	0.007873	0.006881	0.008018	0.007999	0.006229	0.006229	0.007861	0.006871	0.008007	0.007988	0.00622	0.00622	0.007885	0.006891
0.010493368	0.013199211	0.01157576	0.013416012	0.013385173	0.01050621	0.01050621	0.013215	0.01159	0.013432	0.013401	0.010519	0.010519	0.013196	0.011573	0.013413	0.013382	0.010503	0.010503	0.013176	0.011556
0.003399628	0.003928437	0.003605897	0.003915345	0.003910685	0.003394589	0.003394589	0.003923	0.003601	0.00391	0.003905	0.00339	0.00339	0.003917	0.003595	0.003904	0.003899	0.003385	0.003385	0.003911	0.00359
0.002099737	0.002421828	0.002225379	0.002412973	0.00241014	0.002096625	0.002096625	0.002418	0.002222	0.002409	0.002407	0.002094	0.002094	0.002415	0.002219	0.002406	0.002403	0.00209	0.00209	0.002411	0.002216
0.000940827	0.001083112	0.000996331	0.001078801	0.001077552	0.000939432	0.000939432	0.001082	0.000995	0.001077	0.001076	0.000938	0.000938	0.00108	0.000993	0.001076	0.001074	0.000937	0.000937	0.001078	0.000992
0.001433568	0.001648302	0.001517334	0.001641383	0.0016395	0.001431443	0.001431443	0.001646	0.001515	0.001639	0.001637	0.001429	0.001429	0.001643	0.001513	0.001637	0.001635	0.001427	0.001427	0.001641	0.001511
0.001248272	0.001433285	0.001320443	0.00142693	0.001425311	0.001246422	0.001246422	0.001431	0.001318	0.001425	0.001423	0.001245	0.001245	0.001429	0.001317	0.001423	0.001421	0.001243	0.001243	0.001427	0.001315
0.001235794	0.001386452	0.001295529	0.001381532	0.001380258	0.001233962	0.001233962	0.001384	0.001294	0.001379	0.001378	0.001232	0.001232	0.001427	0.001333	0.001422	0.001421	0.00127	0.00127	0.001425	0.001331
0.001636625	0.001834852	0.001715213	0.00182813	0.001826455	0.001634199	0.001634199	0.001832	0.001713	0.001825	0.001824	0.001632	0.001632	0.001829	0.00171	0.001823	0.001821	0.001629	0.001629	0.001827	0.001708
0.001478427	0.001656621	0.001549067	0.00165041	0.001648905	0.001476236	0.001476236	0.001654	0.001547	0.001648	0.001646	0.001474	0.001474	0.001652	0.001544	0.001646	0.001644	0.001472	0.001472	0.001649	0.001542
0.000399904	0.000447909	0.000418933	0.000446198	0.000445793	0.000399311	0.000399311	0.000447	0.000418	0.000446	0.000445	0.000399	0.000399	0.000447	0.000418	0.000445	0.000444	0.000398	0.000398	0.000446	0.000417
8.00331E-05	8.96095E-05	8.38289E-05	8.92621E-05	8.91813E-05	7.99145E-05	7.99145E-05	8.95E-05	8.37E-05	8.91E-05	8.9E-05	7.98E-05	7.98E-05	8.93E-05	8.36E-05	8.9E-05	8.89E-05	7.97E-05	7.97E-05	8.92E-05	8.35E-05

Drilled Well Percentages by Year Associated with Each Well Depth

2032						2033						2034						2035			
COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
0.056792	0.056642	0.0428	0.0428	0.055265	0.047668	0.056722	0.056573	0.042747	0.042747	0.055349	0.047741	0.056809	0.05666	0.042813	0.042813	0.055268	0.047671	0.056726	0.056576	0.04275	0.04275
0.28035	0.27965	0.214444	0.214444	0.273851	0.237736	0.280006	0.279306	0.21418	0.21418	0.273956	0.237827	0.280113	0.279413	0.214262	0.214262	0.27406	0.237917	0.280219	0.279519	0.214343	0.214343
0.202241	0.201751	0.15613	0.15613	0.198358	0.172888	0.202342	0.201852	0.156208	0.156208	0.198408	0.172931	0.202393	0.201903	0.156247	0.156247	0.198457	0.172975	0.202443	0.201953	0.156286	0.156286
0.03937	0.039277	0.030585	0.030585	0.038608	0.033743	0.039321	0.039228	0.030547	0.030547	0.038552	0.033693	0.039264	0.039171	0.030502	0.030502	0.038495	0.033643	0.039206	0.039113	0.030458	0.030458
0.065657	0.065506	0.051417	0.051417	0.064691	0.056734	0.065753	0.065602	0.051492	0.051492	0.064595	0.05665	0.065656	0.065505	0.051416	0.051416	0.064674	0.056719	0.065736	0.065585	0.051479	0.051479
0.01911	0.019087	0.016568	0.016568	0.01915	0.017578	0.019086	0.019064	0.016548	0.016548	0.019122	0.017552	0.019058	0.019036	0.016523	0.016523	0.019094	0.017526	0.01903	0.019008	0.016499	0.016499
0.011777	0.011763	0.010233	0.010233	0.011806	0.010848	0.011763	0.011749	0.010221	0.010221	0.011788	0.010832	0.011745	0.011732	0.010205	0.010205	0.011771	0.010816	0.011728	0.011714	0.01019	0.01019
0.005265	0.005259	0.004585	0.004585	0.005491	0.005051	0.005469	0.005463	0.004763	0.004763	0.005483	0.005044	0.005461	0.005455	0.004756	0.004756	0.005475	0.005036	0.005453	0.005447	0.004749	0.004749
0.008011	0.008002	0.006986	0.006986	0.008035	0.007397	0.008001	0.007992	0.006978	0.006978	0.008023	0.007386	0.00799	0.00798	0.006968	0.006968	0.008011	0.007375	0.007978	0.007969	0.006957	0.006957
0.006964	0.006957	0.006083	0.006083	0.006987	0.006437	0.006956	0.006948	0.006076	0.006076	0.006977	0.006427	0.006946	0.006938	0.006067	0.006067	0.006966	0.006418	0.006935	0.006928	0.006058	0.006058
0.00696	0.006954	0.006217	0.006217	0.006977	0.006519	0.006952	0.006945	0.006209	0.006209	0.006966	0.006509	0.006942	0.006935	0.0062	0.0062	0.006956	0.0065	0.006931	0.006925	0.006191	0.006191
0.008923	0.008914	0.007976	0.007976	0.009163	0.008565	0.009129	0.009121	0.008161	0.008161	0.009149	0.008553	0.009116	0.009107	0.008149	0.008149	0.009136	0.00854	0.009102	0.009094	0.008137	0.008137
0.008055	0.008048	0.007205	0.007205	0.008076	0.007551	0.008045	0.008038	0.007196	0.007196	0.008064	0.00754	0.008033	0.008026	0.007186	0.007186	0.008052	0.007529	0.008022	0.008014	0.007175	0.007175
0.002178	0.002176	0.001949	0.001949	0.002183	0.002042	0.002175	0.002173	0.001947	0.001947	0.00218	0.002039	0.002172	0.00217	0.001944	0.001944	0.002177	0.002036	0.002169	0.002167	0.001941	0.001941
0.000436	0.000435	0.00039	0.00039	0.000437	0.000409	0.000435	0.000435	0.00039	0.00039	0.000436	0.000408	0.000434	0.000434	0.000389	0.000389	0.000436	0.000407	0.000434	0.000433	0.000388	0.000388

2032						2033						2034						2035			
COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
0.011584	0.011554	0.00873	0.00873	0.011273	0.009723	0.01157	0.01154	0.00872	0.00872	0.01129	0.009738	0.011588	0.011557	0.008733	0.008733	0.011274	0.009724	0.011571	0.01154	0.00872	0.00872
0.057186	0.057043	0.043742	0.043742	0.05586	0.048493	0.057116	0.056973	0.043689	0.043689	0.055882	0.048512	0.057137	0.056995	0.043705	0.043705	0.055903	0.04853	0.057159	0.057016	0.043722	0.043722
0.041253	0.041153	0.031847	0.031847	0.040461	0.035266	0.041274	0.041174	0.031863	0.031863	0.040471	0.035275	0.041284	0.041184	0.031871	0.031871	0.040481	0.035283	0.041294	0.041194	0.031879	0.031879
0.008031	0.008012	0.006239	0.006239	0.007875	0.006883	0.008021	0.008002	0.006231	0.006231	0.007864	0.006873	0.008009	0.00799	0.006222	0.006222	0.007852	0.006863	0.007997	0.007978	0.006213	0.006213
0.013393	0.013362	0.010488	0.010488	0.013196	0.011573	0.013412	0.013381	0.010503	0.010503	0.013176	0.011556	0.013393	0.013362	0.010488	0.010488	0.013192	0.01157	0.013409	0.013378	0.010501	0.010501
0.003898	0.003893	0.00338	0.00338	0.003906	0.003586	0.003893	0.003889	0.003375	0.003375	0.0039	0.00358	0.003887	0.003883	0.00337	0.00337	0.003895	0.003575	0.003882	0.003877	0.003365	0.003365
0.002402	0.002399	0.002087	0.002087	0.002408	0.002213	0.002399	0.002397	0.002085	0.002085	0.002405	0.00221	0.002396	0.002393	0.002082	0.002082	0.002401	0.002206	0.002392	0.002389	0.002079	0.002079
0.001074	0.001073	0.000935	0.000935	0.00112	0.00103	0.001116	0.001114	0.000971	0.000971	0.001118	0.001029	0.001114	0.001113	0.00097	0.00097	0.001117	0.001027	0.001112	0.001111	0.000969	0.000969
0.001634	0.001632	0.001425	0.001425	0.001639	0.001509	0.001632	0.00163	0.001423	0.001423	0.001637	0.001507	0.00163	0.001628	0.001421	0.001421	0.001634	0.001504	0.001627	0.001625	0.001419	0.001419
0.001421	0.001419	0.001241	0.001241	0.001425	0.001313	0.001419	0.001417	0.001239	0.001239	0.001423	0.001311	0.001417	0.001415	0.001238	0.001238	0.001421	0.001309	0.001415	0.001413	0.001236	0.001236
0.00142	0.001418	0.001268	0.001268	0.001423	0.00133	0.001418	0.001417	0.001267	0.001267	0.001421	0.001328	0.001416	0.001415	0.001265	0.001265	0.001419	0.001326	0.001414	0.001413	0.001263	0.001263
0.00182	0.001818	0.001627	0.001627	0.001869	0.001747	0.001862	0.00186	0.001665	0.001665	0.001866	0.001745	0.001859	0.001858	0.001662	0.001662	0.001863	0.001742	0.001857	0.001855	0.00166	0.00166
0.001643	0.001642	0.00147	0.00147	0.001647	0.00154	0.001641	0.00164	0.001468	0.001468	0.001645	0.001538	0.001639	0.001637	0.001466	0.001466	0.001642	0.001536	0.001636	0.001635	0.001464	0.001464
0.000444	0.000444	0.000398	0.000398	0.000445	0.000417	0.000444	0.000443	0.000397	0.000397	0.000445	0.000416	0.000443	0.000443	0.000396	0.000396	0.000444	0.000415	0.000442	0.000442	0.000396	0.000396
8.89E-05	8.88E-05	7.96E-05	7.96E-05	8.91E-05	8.34E-05	8.88E-05	8.87E-05	7.95E-05	7.95E-05	8.9E-05	8.32E-05	8.86E-05	8.85E-05	7.93E-05	7.93E-05	8.88E-05	8.31E-05	8.85E-05	8.84E-05	7.92E-05	7.92E-05

Final % Reduction Given 0.4 Load Factor

		NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
	1000	1.24%	1.07%	1.28%	1.27%	0.96%	0.96%
	2000	5.86%	5.09%	5.99%	5.98%	4.59%	4.59%
	3000	3.90%	3.40%	3.97%	3.97%	3.07%	3.07%
	4000	0.73%	0.64%	0.75%	0.75%	0.58%	0.58%
	5000	1.28%	1.12%	1.30%	1.30%	1.02%	1.02%
	6000	0.36%	0.33%	0.35%	0.35%	0.31%	0.31%
	7000	0.23%	0.21%	0.23%	0.23%	0.20%	0.20%
2012	8000	0.12%	0.11%	0.12%	0.12%	0.10%	0.10%
	9000	0.17%	0.16%	0.17%	0.17%	0.15%	0.15%
	10000	0.11%	0.10%	0.11%	0.11%	0.09%	0.09%
	11000	0.13%	0.12%	0.13%	0.13%	0.12%	0.12%
	12000	0.14%	0.13%	0.14%	0.14%	0.13%	0.13%
	13000	0.11%	0.10%	0.11%	0.11%	0.10%	0.10%
	14000	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%
	15000	0.01%	0.01%	0.01%	0.01%	0.00%	0.00%
	1000	1.13%	0.97%	1.16%	1.15%	0.87%	0.87%
	2000	5.58%	4.85%	5.71%	5.70%	4.37%	4.37%
	3000	4.04%	3.52%	4.12%	4.11%	3.18%	3.18%
	4000	0.79%	0.69%	0.80%	0.80%	0.62%	0.62%
	5000	1.32%	1.16%	1.34%	1.34%	1.05%	1.05%
	6000	0.39%	0.36%	0.39%	0.39%	0.34%	0.34%
	7000	0.24%	0.22%	0.24%	0.24%	0.21%	0.21%
2015	8000	0.11%	0.10%	0.11%	0.11%	0.10%	0.10%
	9000	0.16%	0.15%	0.16%	0.16%	0.14%	0.14%
	10000	0.15%	0.13%	0.15%	0.15%	0.13%	0.13%
	11000	0.14%	0.13%	0.14%	0.14%	0.13%	0.13%
	12000	0.19%	0.18%	0.19%	0.19%	0.17%	0.17%
	13000	0.16%	0.15%	0.16%	0.16%	0.15%	0.15%
	14000	0.05%	0.04%	0.05%	0.05%	0.04%	0.04%
	15000	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%
	1000	1.12%	0.97%	1.15%	1.15%	0.87%	0.87%
	2000	5.59%	4.85%	5.71%	5.70%	4.37%	4.37%
	3000	4.05%	3.53%	4.13%	4.12%	3.19%	3.19%
	4000	0.79%	0.69%	0.80%	0.80%	0.62%	0.62%
	5000	1.32%	1.16%	1.34%	1.34%	1.05%	1.05%
	6000	0.39%	0.36%	0.39%	0.39%	0.34%	0.34%
	7000	0.24%	0.22%	0.24%	0.24%	0.21%	0.21%
2016	8000	0.11%	0.10%	0.11%	0.11%	0.10%	0.10%
	9000	0.16%	0.15%	0.16%	0.16%	0.14%	0.14%
	10000	0.15%	0.13%	0.15%	0.15%	0.13%	0.13%
	11000	0.14%	0.13%	0.14%	0.14%	0.13%	0.13%
	12000	0.19%	0.17%	0.19%	0.19%	0.17%	0.17%
	13000	0.16%	0.15%	0.16%	0.16%	0.15%	0.15%
	14000	0.05%	0.04%	0.05%	0.05%	0.04%	0.04%
	15000	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%

Final % Reduction Given 0.4 Load Factor

		NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
	1000	1.12%	0.97%	1.15%	1.15%	0.87%	0.87%
	2000	5.59%	4.85%	5.72%	5.70%	4.37%	4.37%
	3000	4.04%	3.52%	4.12%	4.11%	3.18%	3.18%
	4000	0.79%	0.69%	0.80%	0.80%	0.62%	0.62%
	5000	1.32%	1.16%	1.34%	1.34%	1.05%	1.05%
	6000	0.39%	0.36%	0.39%	0.39%	0.34%	0.34%
	7000	0.24%	0.22%	0.24%	0.24%	0.21%	0.21%
2017	8000	0.11%	0.10%	0.11%	0.11%	0.10%	0.10%
	9000	0.16%	0.15%	0.16%	0.16%	0.14%	0.14%
	10000	0.15%	0.13%	0.15%	0.15%	0.13%	0.13%
	11000	0.14%	0.13%	0.14%	0.14%	0.13%	0.13%
	12000	0.19%	0.17%	0.19%	0.19%	0.17%	0.17%
	13000	0.16%	0.15%	0.16%	0.16%	0.15%	0.15%
	14000	0.05%	0.04%	0.05%	0.05%	0.04%	0.04%
	15000	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%
	1000	1.13%	0.97%	1.16%	1.15%	0.87%	0.87%
	2000	5.59%	4.85%	5.71%	5.70%	4.37%	4.37%
	3000	4.04%	3.52%	4.12%	4.11%	3.18%	3.18%
	4000	0.79%	0.69%	0.80%	0.80%	0.62%	0.62%
	5000	1.32%	1.16%	1.34%	1.34%	1.05%	1.05%
	6000	0.39%	0.36%	0.39%	0.39%	0.34%	0.34%
	7000	0.24%	0.22%	0.24%	0.24%	0.21%	0.21%
2018	8000	0.11%	0.10%	0.11%	0.11%	0.10%	0.10%
	9000	0.16%	0.15%	0.16%	0.16%	0.14%	0.14%
	10000	0.15%	0.13%	0.15%	0.14%	0.13%	0.13%
	11000	0.14%	0.13%	0.14%	0.14%	0.13%	0.13%
	12000	0.19%	0.17%	0.19%	0.19%	0.17%	0.17%
	13000	0.16%	0.15%	0.16%	0.16%	0.15%	0.15%
	14000	0.05%	0.04%	0.05%	0.05%	0.04%	0.04%
	15000	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%
	1000	1.13%	0.97%	1.16%	1.15%	0.87%	0.87%
	2000	5.59%	4.86%	5.72%	5.70%	4.37%	4.37%
	3000	4.04%	3.52%	4.12%	4.11%	3.18%	3.18%
	4000	0.79%	0.69%	0.80%	0.80%	0.62%	0.62%
	5000	1.32%	1.16%	1.34%	1.34%	1.05%	1.05%
	6000	0.39%	0.36%	0.39%	0.39%	0.34%	0.34%
	7000	0.24%	0.22%	0.24%	0.24%	0.21%	0.21%
2019	8000	0.11%	0.10%	0.11%	0.11%	0.10%	0.10%
	9000	0.16%	0.15%	0.16%	0.16%	0.14%	0.14%
	10000	0.15%	0.13%	0.14%	0.14%	0.13%	0.13%
	11000	0.14%	0.13%	0.14%	0.14%	0.13%	0.13%
	12000	0.19%	0.17%	0.19%	0.19%	0.17%	0.17%
	13000	0.16%	0.15%	0.16%	0.16%	0.15%	0.15%
	14000	0.05%	0.04%	0.05%	0.05%	0.04%	0.04%
	15000	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%

Final % Reduction Given 0.4 Load Factor

		NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
	1000	1.13%	0.97%	1.16%	1.15%	0.87%	0.87%
	2000	5.59%	4.85%	5.72%	5.70%	4.37%	4.37%
	3000	4.04%	3.52%	4.12%	4.11%	3.18%	3.18%
	4000	0.79%	0.69%	0.80%	0.80%	0.62%	0.62%
	5000	1.32%	1.16%	1.34%	1.34%	1.05%	1.05%
	6000	0.39%	0.36%	0.39%	0.39%	0.34%	0.34%
	7000	0.24%	0.22%	0.24%	0.24%	0.21%	0.21%
2020	8000	0.11%	0.10%	0.11%	0.11%	0.10%	0.10%
	9000	0.16%	0.15%	0.16%	0.16%	0.14%	0.14%
	10000	0.15%	0.13%	0.14%	0.14%	0.13%	0.13%
	11000	0.14%	0.13%	0.14%	0.14%	0.13%	0.13%
	12000	0.19%	0.17%	0.19%	0.19%	0.17%	0.17%
	13000	0.16%	0.15%	0.16%	0.16%	0.15%	0.15%
	14000	0.05%	0.04%	0.05%	0.05%	0.04%	0.04%
	15000	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%
	1000	1.13%	0.97%	1.16%	1.15%	0.87%	0.87%
	2000	5.59%	4.85%	5.72%	5.70%	4.37%	4.37%
	3000	4.05%	3.53%	4.13%	4.12%	3.19%	3.19%
	4000	0.79%	0.69%	0.80%	0.80%	0.62%	0.62%
	5000	1.32%	1.16%	1.34%	1.34%	1.05%	1.05%
	6000	0.39%	0.36%	0.39%	0.39%	0.34%	0.34%
	7000	0.24%	0.22%	0.24%	0.24%	0.21%	0.21%
2021	8000	0.11%	0.10%	0.11%	0.11%	0.10%	0.10%
	9000	0.16%	0.15%	0.16%	0.16%	0.14%	0.14%
	10000	0.15%	0.13%	0.14%	0.14%	0.13%	0.13%
	11000	0.14%	0.13%	0.14%	0.14%	0.12%	0.12%
	12000	0.19%	0.17%	0.19%	0.18%	0.17%	0.17%
	13000	0.16%	0.15%	0.16%	0.16%	0.15%	0.15%
	14000	0.05%	0.04%	0.05%	0.05%	0.04%	0.04%
	15000	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%
	1000	1.12%	0.97%	1.15%	1.15%	0.87%	0.87%
	2000	5.60%	4.86%	5.73%	5.71%	4.38%	4.38%
	3000	4.04%	3.53%	4.13%	4.12%	3.18%	3.18%
	4000	0.79%	0.69%	0.80%	0.80%	0.62%	0.62%
	5000	1.32%	1.16%	1.34%	1.34%	1.05%	1.05%
	6000	0.39%	0.36%	0.39%	0.39%	0.34%	0.34%
	7000	0.24%	0.22%	0.24%	0.24%	0.21%	0.21%
2022	8000	0.11%	0.10%	0.11%	0.11%	0.09%	0.09%
	9000	0.16%	0.15%	0.16%	0.16%	0.14%	0.14%
	10000	0.14%	0.13%	0.14%	0.14%	0.13%	0.13%
	11000	0.14%	0.13%	0.14%	0.14%	0.12%	0.12%
	12000	0.19%	0.17%	0.18%	0.18%	0.17%	0.17%
	13000	0.16%	0.15%	0.16%	0.16%	0.15%	0.15%
	14000	0.05%	0.04%	0.05%	0.05%	0.04%	0.04%
	15000	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%

Final % Reduction Given 0.4 Load Factor

		NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
	1000	1.13%	0.97%	1.16%	1.15%	0.87%	0.87%
	2000	5.60%	4.86%	5.73%	5.71%	4.38%	4.38%
	3000	4.04%	3.52%	4.12%	4.11%	3.18%	3.18%
	4000	0.79%	0.69%	0.80%	0.80%	0.62%	0.62%
	5000	1.32%	1.16%	1.34%	1.34%	1.05%	1.05%
	6000	0.39%	0.36%	0.39%	0.39%	0.33%	0.33%
	7000	0.24%	0.22%	0.24%	0.24%	0.21%	0.21%
2023	8000	0.11%	0.10%	0.11%	0.11%	0.09%	0.09%
	9000	0.16%	0.15%	0.16%	0.16%	0.14%	0.14%
	10000	0.14%	0.13%	0.14%	0.14%	0.13%	0.13%
	11000	0.14%	0.13%	0.14%	0.14%	0.12%	0.12%
	12000	0.19%	0.17%	0.18%	0.18%	0.16%	0.16%
	13000	0.16%	0.15%	0.16%	0.16%	0.14%	0.14%
	14000	0.05%	0.04%	0.05%	0.04%	0.04%	0.04%
	15000	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%
	1000	1.12%	0.97%	1.15%	1.15%	0.87%	0.87%
	2000	5.60%	4.86%	5.72%	5.71%	4.38%	4.38%
	3000	4.04%	3.52%	4.12%	4.11%	3.18%	3.18%
	4000	0.79%	0.69%	0.80%	0.80%	0.62%	0.62%
	5000	1.32%	1.16%	1.34%	1.34%	1.05%	1.05%
	6000	0.40%	0.36%	0.39%	0.39%	0.34%	0.34%
	7000	0.24%	0.22%	0.24%	0.24%	0.21%	0.21%
2024	8000	0.11%	0.10%	0.11%	0.11%	0.09%	0.09%
	9000	0.16%	0.15%	0.16%	0.16%	0.14%	0.14%
	10000	0.14%	0.13%	0.14%	0.14%	0.13%	0.13%
	11000	0.14%	0.13%	0.14%	0.14%	0.12%	0.12%
	12000	0.18%	0.17%	0.18%	0.18%	0.16%	0.16%
	13000	0.16%	0.15%	0.16%	0.16%	0.14%	0.14%
	14000	0.05%	0.04%	0.04%	0.04%	0.04%	0.04%
	15000	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%
	1000	1.13%	0.97%	1.16%	1.15%	0.87%	0.87%
	2000	5.60%	4.86%	5.72%	5.71%	4.38%	4.38%
	3000	4.04%	3.52%	4.12%	4.11%	3.18%	3.18%
	4000	0.79%	0.69%	0.80%	0.80%	0.62%	0.62%
	5000	1.32%	1.16%	1.34%	1.34%	1.05%	1.05%
	6000	0.40%	0.36%	0.39%	0.39%	0.34%	0.34%
	7000	0.24%	0.22%	0.24%	0.24%	0.21%	0.21%
2025	8000	0.11%	0.10%	0.11%	0.11%	0.09%	0.09%
	9000	0.16%	0.15%	0.16%	0.16%	0.14%	0.14%
	10000	0.14%	0.13%	0.14%	0.14%	0.13%	0.13%
	11000	0.14%	0.13%	0.14%	0.14%	0.12%	0.12%
	12000	0.18%	0.17%	0.18%	0.18%	0.16%	0.16%
	13000	0.16%	0.15%	0.16%	0.16%	0.14%	0.14%
	14000	0.05%	0.04%	0.04%	0.04%	0.04%	0.04%
	15000	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%

Final % Reduction Given 0.4 Load Factor

		NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
	1000	1.13%	0.97%	1.15%	1.15%	0.87%	0.87%
	2000	5.59%	4.86%	5.72%	5.71%	4.38%	4.38%
	3000	4.04%	3.52%	4.12%	4.11%	3.18%	3.18%
	4000	0.79%	0.69%	0.80%	0.80%	0.62%	0.62%
	5000	1.32%	1.16%	1.34%	1.34%	1.05%	1.05%
	6000	0.39%	0.36%	0.39%	0.39%	0.34%	0.34%
	7000	0.24%	0.22%	0.24%	0.24%	0.21%	0.21%
2026	8000	0.11%	0.10%	0.11%	0.11%	0.09%	0.09%
	9000	0.16%	0.15%	0.16%	0.16%	0.14%	0.14%
	10000	0.14%	0.13%	0.14%	0.14%	0.13%	0.13%
	11000	0.14%	0.13%	0.14%	0.14%	0.12%	0.12%
	12000	0.18%	0.17%	0.18%	0.18%	0.16%	0.16%
	13000	0.17%	0.16%	0.17%	0.17%	0.15%	0.15%
	14000	0.04%	0.04%	0.04%	0.04%	0.04%	0.04%
	15000	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%
	1000	1.13%	0.97%	1.16%	1.15%	0.87%	0.87%
	2000	5.59%	4.85%	5.71%	5.70%	4.37%	4.37%
	3000	4.04%	3.52%	4.12%	4.11%	3.18%	3.18%
	4000	0.79%	0.69%	0.80%	0.80%	0.62%	0.62%
	5000	1.32%	1.16%	1.34%	1.34%	1.05%	1.05%
	6000	0.39%	0.36%	0.39%	0.39%	0.34%	0.34%
	7000	0.24%	0.22%	0.24%	0.24%	0.21%	0.21%
2027	8000	0.11%	0.10%	0.11%	0.11%	0.09%	0.09%
	9000	0.17%	0.15%	0.16%	0.16%	0.14%	0.14%
	10000	0.14%	0.13%	0.14%	0.14%	0.13%	0.13%
	11000	0.14%	0.13%	0.14%	0.14%	0.12%	0.12%
	12000	0.18%	0.17%	0.18%	0.18%	0.16%	0.16%
	13000	0.17%	0.16%	0.17%	0.17%	0.15%	0.15%
	14000	0.04%	0.04%	0.04%	0.04%	0.04%	0.04%
	15000	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%
	1000	1.13%	0.97%	1.15%	1.15%	0.87%	0.87%
	2000	5.59%	4.86%	5.72%	5.71%	4.38%	4.38%
	3000	4.04%	3.52%	4.12%	4.11%	3.18%	3.18%
	4000	0.79%	0.69%	0.80%	0.80%	0.62%	0.62%
	5000	1.32%	1.16%	1.34%	1.34%	1.05%	1.05%
	6000	0.39%	0.36%	0.39%	0.39%	0.34%	0.34%
	7000	0.24%	0.22%	0.24%	0.24%	0.21%	0.21%
2028	8000	0.11%	0.10%	0.11%	0.11%	0.09%	0.09%
	9000	0.17%	0.15%	0.16%	0.16%	0.14%	0.14%
	10000	0.14%	0.13%	0.14%	0.14%	0.12%	0.12%
	11000	0.14%	0.13%	0.14%	0.14%	0.12%	0.12%
	12000	0.18%	0.17%	0.18%	0.18%	0.16%	0.16%
	13000	0.17%	0.16%	0.17%	0.17%	0.15%	0.15%
	14000	0.04%	0.04%	0.04%	0.04%	0.04%	0.04%
	15000	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%

Final % Reduction Given 0.4 Load Factor

		NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
	1000	1.13%	0.97%	1.16%	1.15%	0.87%	0.87%
	2000	5.59%	4.86%	5.72%	5.70%	4.37%	4.37%
	3000	4.04%	3.53%	4.13%	4.12%	3.19%	3.19%
	4000	0.78%	0.69%	0.80%	0.80%	0.62%	0.62%
	5000	1.32%	1.16%	1.34%	1.34%	1.05%	1.05%
	6000	0.39%	0.36%	0.39%	0.39%	0.34%	0.34%
	7000	0.24%	0.22%	0.24%	0.24%	0.21%	0.21%
2029	8000	0.11%	0.10%	0.11%	0.11%	0.09%	0.09%
	9000	0.16%	0.15%	0.16%	0.16%	0.14%	0.14%
	10000	0.14%	0.13%	0.14%	0.14%	0.12%	0.12%
	11000	0.14%	0.13%	0.14%	0.14%	0.12%	0.12%
	12000	0.18%	0.17%	0.18%	0.18%	0.16%	0.16%
	13000	0.17%	0.15%	0.17%	0.16%	0.15%	0.15%
	14000	0.04%	0.04%	0.04%	0.04%	0.04%	0.04%
	15000	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%
	1000	1.13%	0.97%	1.15%	1.15%	0.87%	0.87%
	2000	5.60%	4.86%	5.72%	5.71%	4.38%	4.38%
	3000	4.04%	3.52%	4.12%	4.11%	3.18%	3.18%
	4000	0.79%	0.69%	0.80%	0.80%	0.62%	0.62%
	5000	1.32%	1.16%	1.34%	1.34%	1.05%	1.05%
	6000	0.39%	0.36%	0.39%	0.39%	0.34%	0.34%
	7000	0.24%	0.22%	0.24%	0.24%	0.21%	0.21%
2030	8000	0.11%	0.10%	0.11%	0.11%	0.09%	0.09%
	9000	0.16%	0.15%	0.16%	0.16%	0.14%	0.14%
	10000	0.14%	0.13%	0.14%	0.14%	0.12%	0.12%
	11000	0.14%	0.13%	0.14%	0.14%	0.12%	0.12%
	12000	0.18%	0.17%	0.18%	0.18%	0.16%	0.16%
	13000	0.17%	0.15%	0.16%	0.16%	0.15%	0.15%
	14000	0.04%	0.04%	0.04%	0.04%	0.04%	0.04%
	15000	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%
	1000	1.12%	0.97%	1.15%	1.15%	0.87%	0.87%
	2000	5.60%	4.86%	5.72%	5.71%	4.38%	4.38%
	3000	4.04%	3.52%	4.12%	4.11%	3.18%	3.18%
	4000	0.79%	0.69%	0.80%	0.80%	0.62%	0.62%
	5000	1.32%	1.16%	1.34%	1.34%	1.05%	1.05%
	6000	0.39%	0.36%	0.39%	0.39%	0.34%	0.34%
	7000	0.24%	0.22%	0.24%	0.24%	0.21%	0.21%
2031	8000	0.11%	0.10%	0.11%	0.11%	0.09%	0.09%
	9000	0.16%	0.15%	0.16%	0.16%	0.14%	0.14%
	10000	0.14%	0.13%	0.14%	0.14%	0.12%	0.12%
	11000	0.14%	0.13%	0.14%	0.14%	0.13%	0.13%
	12000	0.18%	0.17%	0.18%	0.18%	0.16%	0.16%
	13000	0.17%	0.15%	0.16%	0.16%	0.15%	0.15%
	14000	0.04%	0.04%	0.04%	0.04%	0.04%	0.04%
	15000	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%

Final % Reduction Given 0.4 Load Factor

		NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
	1000	1.13%	0.97%	1.16%	1.16%	0.87%	0.87%
	2000	5.59%	4.86%	5.72%	5.70%	4.37%	4.37%
	3000	4.04%	3.52%	4.13%	4.12%	3.18%	3.18%
	4000	0.79%	0.69%	0.80%	0.80%	0.62%	0.62%
	5000	1.32%	1.16%	1.34%	1.34%	1.05%	1.05%
	6000	0.39%	0.36%	0.39%	0.39%	0.34%	0.34%
	7000	0.24%	0.22%	0.24%	0.24%	0.21%	0.21%
2032	8000	0.11%	0.10%	0.11%	0.11%	0.09%	0.09%
	9000	0.16%	0.15%	0.16%	0.16%	0.14%	0.14%
	10000	0.14%	0.13%	0.14%	0.14%	0.12%	0.12%
	11000	0.14%	0.13%	0.14%	0.14%	0.13%	0.13%
	12000	0.18%	0.17%	0.18%	0.18%	0.16%	0.16%
	13000	0.16%	0.15%	0.16%	0.16%	0.15%	0.15%
	14000	0.04%	0.04%	0.04%	0.04%	0.04%	0.04%
	15000	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%
	1000	1.13%	0.97%	1.16%	1.15%	0.87%	0.87%
	2000	5.59%	4.85%	5.71%	5.70%	4.37%	4.37%
	3000	4.05%	3.53%	4.13%	4.12%	3.19%	3.19%
	4000	0.79%	0.69%	0.80%	0.80%	0.62%	0.62%
	5000	1.32%	1.16%	1.34%	1.34%	1.05%	1.05%
	6000	0.39%	0.36%	0.39%	0.39%	0.34%	0.34%
	7000	0.24%	0.22%	0.24%	0.24%	0.21%	0.21%
2033	8000	0.11%	0.10%	0.11%	0.11%	0.10%	0.10%
	9000	0.16%	0.15%	0.16%	0.16%	0.14%	0.14%
	10000	0.14%	0.13%	0.14%	0.14%	0.12%	0.12%
	11000	0.14%	0.13%	0.14%	0.14%	0.13%	0.13%
	12000	0.19%	0.17%	0.19%	0.19%	0.17%	0.17%
	13000	0.16%	0.15%	0.16%	0.16%	0.15%	0.15%
	14000	0.04%	0.04%	0.04%	0.04%	0.04%	0.04%
	15000	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%
	1000	1.13%	0.97%	1.16%	1.16%	0.87%	0.87%
	2000	5.59%	4.85%	5.71%	5.70%	4.37%	4.37%
	3000	4.05%	3.53%	4.13%	4.12%	3.19%	3.19%
	4000	0.79%	0.69%	0.80%	0.80%	0.62%	0.62%
	5000	1.32%	1.16%	1.34%	1.34%	1.05%	1.05%
	6000	0.39%	0.36%	0.39%	0.39%	0.34%	0.34%
	7000	0.24%	0.22%	0.24%	0.24%	0.21%	0.21%
2034	8000	0.11%	0.10%	0.11%	0.11%	0.10%	0.10%
	9000	0.16%	0.15%	0.16%	0.16%	0.14%	0.14%
	10000	0.14%	0.13%	0.14%	0.14%	0.12%	0.12%
	11000	0.14%	0.13%	0.14%	0.14%	0.13%	0.13%
	12000	0.19%	0.17%	0.19%	0.19%	0.17%	0.17%
	13000	0.16%	0.15%	0.16%	0.16%	0.15%	0.15%
	14000	0.04%	0.04%	0.04%	0.04%	0.04%	0.04%
	15000	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%

Final % Reduction Given 0.4 Load Factor

		NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
	1000	1.13%	0.97%	1.16%	1.15%	0.87%	0.87%
	2000	5.59%	4.85%	5.72%	5.70%	4.37%	4.37%
	3000	4.05%	3.53%	4.13%	4.12%	3.19%	3.19%
	4000	0.79%	0.69%	0.80%	0.80%	0.62%	0.62%
	5000	1.32%	1.16%	1.34%	1.34%	1.05%	1.05%
	6000	0.39%	0.36%	0.39%	0.39%	0.34%	0.34%
	7000	0.24%	0.22%	0.24%	0.24%	0.21%	0.21%
2035	8000	0.11%	0.10%	0.11%	0.11%	0.10%	0.10%
	9000	0.16%	0.15%	0.16%	0.16%	0.14%	0.14%
	10000	0.14%	0.13%	0.14%	0.14%	0.12%	0.12%
	11000	0.14%	0.13%	0.14%	0.14%	0.13%	0.13%
	12000	0.19%	0.17%	0.19%	0.19%	0.17%	0.17%
	13000	0.16%	0.15%	0.16%	0.16%	0.15%	0.15%
	14000	0.04%	0.04%	0.04%	0.04%	0.04%	0.04%
	15000	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%

Drilling Emissions in Lbs/Well Drilled

CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB
2012	001000	Construction	C.1 Well Drilling	889.3949598	52.74499254	650.4930445	0.766405804	40.20745903	36.99086231
2012	002000	Construction	C.1 Well Drilling	1165.785878	68.6565032	855.7315035	1.008083983	52.13380846	47.96310378
2012	003000	Construction	C.1 Well Drilling	1442.176795	84.56801385	1060.969963	1.249762162	64.06015789	58.93534526
2012	004000	Construction	C.1 Well Drilling	1718.567713	100.4795245	1266.208422	1.491440341	75.98650732	69.90758673
2012	005000	Construction	C.1 Well Drilling	2271.349549	132.3025458	1676.68534	1.974796699	99.83920617	91.85206968
2012	006000	Construction	C.1 Well Drilling	5143.498427	247.3684469	3961.954751	4.661204512	182.7774876	168.1552886
2012	007000	Construction	C.1 Well Drilling	6160.153671	295.8400441	4747.390168	5.585171161	218.447303	200.9715188
2012	008000	Construction	C.1 Well Drilling	7685.136537	368.54744	5925.543293	6.971121135	271.9520261	250.195864
2012	009000	Construction	C.1 Well Drilling	9210.119402	441.2548359	7103.696418	8.357071108	325.4567491	299.4202092
2012	010000	Construction	C.1 Well Drilling	11751.75751	562.433829	9067.284959	10.66698773	414.6312876	381.4607846
2012	011000	Construction	C.1 Well Drilling	17376.84905	812.3437041	13484.46933	15.8601023	592.2478825	544.8680519
2012	012000	Construction	C.1 Well Drilling	21706.00576	1014.177015	16846.89225	19.81478506	739.2027504	680.0665304
2012	013000	Construction	C.1 Well Drilling	26653.61343	1244.843656	20689.6613	24.3344225	907.1511709	834.5790772
2012	014000	Construction	C.1 Well Drilling	32838.12301	1533.176957	25493.12261	29.9839693	1117.086697	1027.719761
2012	015000	Construction	C.1 Well Drilling	40259.53452	1879.176919	31257.27618	36.76342545	1369.009327	1259.488581
2015	001000	Construction	C.1 Well Drilling	802.5835351	48.79234205	650.4930445	0.766405804	36.05112075	33.16703109
2015	002000	Construction	C.1 Well Drilling	1051.798768	63.53247208	855.7315035	1.008083983	46.72603737	42.98795438
2015	003000	Construction	C.1 Well Drilling	1301.014	78.27260212	1060.969963	1.249762162	57.40095398	52.80887767
2015	004000	Construction	C.1 Well Drilling	1550.229233	93.01273216	1266.208422	1.491440341	68.0758706	62.62980095
2015	005000	Construction	C.1 Well Drilling	2048.659698	122.4929922	1676.68534	1.974796699	89.42570384	82.27164753
2015	006000	Construction	C.1 Well Drilling	5123.472228	266.380754	3961.954751	4.661204512	183.9929422	169.2735068
2015	007000	Construction	C.1 Well Drilling	6137.179107	318.7425144	4747.390168	5.585171161	219.9862565	202.387356
2015	008000	Construction	C.1 Well Drilling	7657.739424	397.285155	5925.543293	6.971121135	273.9762279	252.0581296
2015	009000	Construction	C.1 Well Drilling	9178.299741	475.8277956	7103.696418	8.357071108	327.9661993	301.7289033
2015	010000	Construction	C.1 Well Drilling	11712.56694	606.7321966	9067.284959	10.66698773	417.9494849	384.5135261
2015	011000	Construction	C.1 Well Drilling	17402.30073	885.5183604	13484.46933	15.8601023	602.454831	554.2584445
2015	012000	Construction	C.1 Well Drilling	21739.14145	1105.754963	16846.89225	19.81478506	752.061946	691.8969903
2015	013000	Construction	C.1 Well Drilling	26695.53085	1357.453936	20689.6613	24.3344225	923.041506	849.1981855
2015	014000	Construction	C.1 Well Drilling	32891.01759	1672.077654	25493.12261	29.9839693	1136.765956	1045.82468
2015	015000	Construction	C.1 Well Drilling	40325.60169	2049.626115	31257.27618	36.76342545	1393.235296	1281.776472
2016	001000	Construction	C.1 Well Drilling	763.3389208	46.54759315	650.4930445	0.766405804	33.77182493	31.07007894
2016	002000	Construction	C.1 Well Drilling	1000.28455	60.61695792	855.7315035	1.008083983	43.76261426	40.26160512
2016	003000	Construction	C.1 Well Drilling	1237.23018	74.68632269	1060.969963	1.249762162	53.7534036	49.45313131
2016	004000	Construction	C.1 Well Drilling	1474.175809	88.75568746	1266.208422	1.491440341	63.74419293	58.64465749
2016	005000	Construction	C.1 Well Drilling	1948.067068	116.894417	1676.68534	1.974796699	83.72577159	77.02770987
2016	006000	Construction	C.1 Well Drilling	5042.783384	260.999804	3961.954751	4.661204512	178.7846588	164.4818861
2016	007000	Construction	C.1 Well Drilling	6040.839654	312.331865	4747.390168	5.585171161	213.7816992	196.6791633
2016	008000	Construction	C.1 Well Drilling	7537.924059	389.3299566	5925.543293	6.971121135	266.2772598	244.975079
2016	009000	Construction	C.1 Well Drilling	9035.008464	466.3280481	7103.696418	8.357071108	318.7728203	293.2709947
2016	010000	Construction	C.1 Well Drilling	11530.14914	594.6582007	9067.284959	10.66698773	406.2654213	373.7641876
2016	011000	Construction	C.1 Well Drilling	17169.76603	870.1619411	13484.46933	15.8601023	587.6133242	540.6042583
2016	012000	Construction	C.1 Well Drilling	21449.08203	1086.617552	16846.89225	19.81478506	733.5667911	674.8814478
2016	013000	Construction	C.1 Well Drilling	26339.72888	1333.995392	20689.6613	24.3344225	900.3707532	828.3410929
2016	014000	Construction	C.1 Well Drilling	32453.03745	1643.217693	25493.12261	29.9839693	1108.875706	1020.165649
2016	015000	Construction	C.1 Well Drilling	39789.00774	2014.284454	31257.27618	36.76342545	1359.081649	1250.355117

Drilling Emissions in Lbs/Well Drilled

CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB
2017	001000	Construction	C.1 Well Drilling	719.1407087	43.99990232	650.4930445	0.766405804	31.39998534	28.88798652
2017	002000	Construction	C.1 Well Drilling	942.654357	57.33159172	855.7315035	1.008083983	40.71607697	37.45879081
2017	003000	Construction	C.1 Well Drilling	1166.168005	70.66328112	1060.969963	1.249762162	50.0321686	46.02959511
2017	004000	Construction	C.1 Well Drilling	1389.681653	83.99497053	1266.208422	1.491440341	59.34826023	54.60039941
2017	005000	Construction	C.1 Well Drilling	1836.70895	110.6583493	1676.68534	1.974796699	77.98044349	71.74200801
2017	006000	Construction	C.1 Well Drilling	4995.849988	257.5406623	3961.954751	4.661204512	174.9119482	160.9189923
2017	007000	Construction	C.1 Well Drilling	5985.300033	308.2478279	4747.390168	5.585171161	209.2039957	192.4676761
2017	008000	Construction	C.1 Well Drilling	7469.4751	384.3085764	5925.543293	6.971121135	260.6420671	239.7907017
2017	009000	Construction	C.1 Well Drilling	8953.650168	460.3693248	7103.696418	8.357071108	312.0801384	287.1137273
2017	010000	Construction	C.1 Well Drilling	11427.27528	587.1372389	9067.284959	10.66698773	397.8102572	365.9854367
2017	011000	Construction	C.1 Well Drilling	17043.46992	860.972981	13484.46933	15.8601023	577.269724	531.0881461
2017	012000	Construction	C.1 Well Drilling	21292.18745	1075.215018	16846.89225	19.81478506	720.7242274	663.0662892
2017	013000	Construction	C.1 Well Drilling	26147.86464	1320.06306	20689.6613	24.3344225	884.6722312	813.8984527
2017	014000	Construction	C.1 Well Drilling	32217.46112	1626.123112	25493.12261	29.9839693	1089.607236	1002.438657
2017	015000	Construction	C.1 Well Drilling	39500.9769	1993.395175	31257.27618	36.76342545	1335.529242	1228.686903
2018	001000	Construction	C.1 Well Drilling	618.2650511	38.07086535	650.4930445	0.766405804	25.96951865	23.89195716
2018	002000	Construction	C.1 Well Drilling	810.1939548	49.62555854	855.7315035	1.008083983	33.66149016	30.96857094
2018	003000	Construction	C.1 Well Drilling	1002.122858	61.18025173	1060.969963	1.249762162	41.35346166	38.04518473
2018	004000	Construction	C.1 Well Drilling	1194.051762	72.73494492	1266.208422	1.491440341	49.04543317	45.12179851
2018	005000	Construction	C.1 Well Drilling	1577.909569	95.84433131	1676.68534	1.974796699	64.42937617	59.27502608
2018	006000	Construction	C.1 Well Drilling	4823.38249	244.8783498	3961.954751	4.661204512	163.1964128	150.1406998
2018	007000	Construction	C.1 Well Drilling	5779.56332	293.1726627	4747.390168	5.585171161	195.2569746	179.6364166
2018	008000	Construction	C.1 Well Drilling	7213.834565	365.6141319	5925.543293	6.971121135	243.3478172	223.8799918
2018	009000	Construction	C.1 Well Drilling	8648.10581	438.0556011	7103.696418	8.357071108	291.4386598	268.123567
2018	010000	Construction	C.1 Well Drilling	11038.55788	558.7913832	9067.284959	10.66698773	371.5900642	341.862859
2018	011000	Construction	C.1 Well Drilling	16557.08617	825.6487898	13484.46933	15.8601023	544.5728937	501.0070622
2018	012000	Construction	C.1 Well Drilling	20685.73813	1031.209291	16846.89225	19.81478506	679.9927161	625.5932988
2018	013000	Construction	C.1 Well Drilling	25404.19751	1266.135578	20689.6613	24.3344225	834.7582274	767.9775692
2018	014000	Construction	C.1 Well Drilling	31302.27173	1559.793436	25493.12261	29.9839693	1028.215117	945.9579072
2018	015000	Construction	C.1 Well Drilling	38379.9608	1912.182867	31257.27618	36.76342545	1260.363384	1159.534313
2019	001000	Construction	C.1 Well Drilling	569.7563561	35.5442175	650.4930445	0.766405804	23.45834049	21.58167325
2019	002000	Construction	C.1 Well Drilling	746.8582133	46.37616294	855.7315035	1.008083983	30.43243937	27.99784422
2019	003000	Construction	C.1 Well Drilling	923.9600705	57.20810837	1060.969963	1.249762162	37.40653826	34.4140152
2019	004000	Construction	C.1 Well Drilling	1101.061928	68.04005381	1266.208422	1.491440341	44.38063715	40.83018618
2019	005000	Construction	C.1 Well Drilling	1455.265642	89.70394468	1676.68534	1.974796699	58.32883492	53.66252813
2019	006000	Construction	C.1 Well Drilling	4096.004555	186.2976253	3961.954751	4.661204512	124.3601064	114.4112979
2019	007000	Construction	C.1 Well Drilling	4907.51531	222.9474742	4747.390168	5.585171161	148.7249189	136.8269254
2019	008000	Construction	C.1 Well Drilling	6124.781441	277.9222474	5925.543293	6.971121135	185.2721377	170.4503667
2019	009000	Construction	C.1 Well Drilling	7342.047572	332.8970206	7103.696418	8.357071108	221.8193565	204.0738079
2019	010000	Construction	C.1 Well Drilling	9370.824458	424.5216427	9067.284959	10.66698773	282.7313878	260.1128767
2019	011000	Construction	C.1 Well Drilling	14035.91596	622.1002856	13484.46933	15.8601023	411.1971285	378.3013582
2019	012000	Construction	C.1 Well Drilling	17535.28226	776.8632618	16846.89225	19.81478506	513.3623997	472.2934077
2019	013000	Construction	C.1 Well Drilling	21534.55802	953.7352345	20689.6613	24.3344225	630.1227096	579.7128928
2019	014000	Construction	C.1 Well Drilling	26533.65273	1174.8252	25493.12261	29.9839693	776.073097	713.9872492
2019	015000	Construction	C.1 Well Drilling	32532.56637	1440.133159	31257.27618	36.76342545	951.2135618	875.1164769

Drilling Emissions in Lbs/Well Drilled

CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB
2020	001000	Construction	C.1 Well Drilling	473.7173815	31.85752448	650.4930445	0.766405804	19.78680255	18.20385834
2020	002000	Construction	C.1 Well Drilling	619.9858554	41.56484144	855.7315035	1.008083983	25.64783746	23.59601046
2020	003000	Construction	C.1 Well Drilling	766.2543294	51.27215841	1060.969963	1.249762162	31.50887236	28.98816257
2020	004000	Construction	C.1 Well Drilling	912.5228033	60.97947537	1266.208422	1.491440341	37.36990727	34.38031469
2020	005000	Construction	C.1 Well Drilling	1205.059751	80.39410929	1676.68534	1.974796699	49.09197709	45.16461892
2020	006000	Construction	C.1 Well Drilling	4023.834188	181.5986855	3961.954751	4.661204512	119.4004227	109.8483889
2020	007000	Construction	C.1 Well Drilling	4821.618634	217.3713079	4747.390168	5.585171161	142.8397677	131.4125863
2020	008000	Construction	C.1 Well Drilling	6018.295302	271.0302415	5925.543293	6.971121135	177.9987851	163.7588823
2020	009000	Construction	C.1 Well Drilling	7214.971971	324.6891751	7103.696418	8.357071108	213.1578026	196.1051784
2020	010000	Construction	C.1 Well Drilling	9209.433085	414.1207311	9067.284959	10.66698773	271.756165	250.0156718
2020	011000	Construction	C.1 Well Drilling	13837.57353	609.3806479	13484.46933	15.8601023	397.7571575	365.9365849
2020	012000	Construction	C.1 Well Drilling	17288.23892	761.0419164	16846.89225	19.81478506	496.6455224	456.9138806
2020	013000	Construction	C.1 Well Drilling	21231.85651	934.3690805	20689.6613	24.3344225	609.6607966	560.8879329
2020	014000	Construction	C.1 Well Drilling	26161.3785	1151.028036	25493.12261	29.9839693	750.9298894	690.8554982
2020	015000	Construction	C.1 Well Drilling	32076.80488	1411.018782	31257.27618	36.76342545	920.4528007	846.8165766
2021	001000	Construction	C.1 Well Drilling	454.0675786	30.83737278	650.4930445	0.766405804	18.29023578	16.82701692
2021	002000	Construction	C.1 Well Drilling	594.768133	40.29517785	855.7315035	1.008083983	23.74861487	21.84872568
2021	003000	Construction	C.1 Well Drilling	735.4686874	49.75298292	1060.969963	1.249762162	29.20699396	26.87043444
2021	004000	Construction	C.1 Well Drilling	876.1692418	59.21078799	1266.208422	1.491440341	34.66537304	31.8921432
2021	005000	Construction	C.1 Well Drilling	1157.570351	78.12639812	1676.68534	1.974796699	45.58213122	41.93556072
2021	006000	Construction	C.1 Well Drilling	3979.529499	180.8457994	3961.954751	4.661204512	115.4316973	106.1971615
2021	007000	Construction	C.1 Well Drilling	4769.042215	216.5221677	4747.390168	5.585171161	138.135017	127.0842157
2021	008000	Construction	C.1 Well Drilling	5953.31129	270.0367203	5925.543293	6.971121135	172.1899967	158.4147969
2021	009000	Construction	C.1 Well Drilling	7137.580365	323.5512728	7103.696418	8.357071108	206.2449763	189.7453782
2021	010000	Construction	C.1 Well Drilling	9111.362157	412.7421937	9067.284959	10.66698773	263.0032757	241.9630136
2021	011000	Construction	C.1 Well Drilling	13724.00099	609.9411943	13484.46933	15.8601023	387.1571718	356.184598
2021	012000	Construction	C.1 Well Drilling	17147.00976	761.8105034	16846.89225	19.81478506	483.4676901	444.7902749
2021	013000	Construction	C.1 Well Drilling	21059.01979	935.3754282	20689.6613	24.3344225	593.5368539	546.0539056
2021	014000	Construction	C.1 Well Drilling	25949.03232	1152.331584	25493.12261	29.9839693	731.1233086	672.6334439
2021	015000	Construction	C.1 Well Drilling	31817.04735	1412.678971	31257.27618	36.76342545	896.2270543	824.5288899
2022	001000	Construction	C.1 Well Drilling	341.9227276	25.77051109	650.4930445	0.766405804	13.75387874	12.65356844
2022	002000	Construction	C.1 Well Drilling	446.6023834	33.65855547	855.7315035	1.008083983	17.82438787	16.39843684
2022	003000	Construction	C.1 Well Drilling	551.2820392	41.54659984	1060.969963	1.249762162	21.89489701	20.14330525
2022	004000	Construction	C.1 Well Drilling	655.961695	49.43464421	1266.208422	1.491440341	25.96540614	23.88817365
2022	005000	Construction	C.1 Well Drilling	865.3210066	65.21073296	1676.68534	1.974796699	34.10642441	31.37791045
2022	006000	Construction	C.1 Well Drilling	3920.329107	178.9607315	3961.954751	4.661204512	110.3747683	101.5447868
2022	007000	Construction	C.1 Well Drilling	4698.818176	214.3316023	4747.390168	5.585171161	132.1412517	121.5699516
2022	008000	Construction	C.1 Well Drilling	5866.55178	267.3879083	5925.543293	6.971121135	164.7909768	151.6076987
2022	009000	Construction	C.1 Well Drilling	7034.285384	320.4442144	7103.696418	8.357071108	197.4407019	181.6454457
2022	010000	Construction	C.1 Well Drilling	8980.508058	408.8713912	9067.284959	10.66698773	251.8569104	231.7083575
2022	011000	Construction	C.1 Well Drilling	13571.14572	607.5116973	13484.46933	15.8601023	373.7364222	343.8375084
2022	012000	Construction	C.1 Well Drilling	16956.96121	758.8630271	16846.89225	19.81478506	466.7849399	429.4421447
2022	013000	Construction	C.1 Well Drilling	20826.46463	931.8359755	20689.6613	24.3344225	573.126103	527.2760147
2022	014000	Construction	C.1 Well Drilling	25663.3439	1148.052161	25493.12261	29.9839693	706.0525568	649.5683523
2022	015000	Construction	C.1 Well Drilling	31467.59903	1407.511583	31257.27618	36.76342545	865.5643015	796.3191573

Drilling Emissions in Lbs/Well Drilled

CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB
2023	001000	Construction	C.1 Well Drilling	313.9175079	24.67658143	650.4930445	0.766405804	12.11604117	11.14675788
2023	002000	Construction	C.1 Well Drilling	410.0209101	32.26580395	855.7315035	1.008083983	15.71365812	14.45656547
2023	003000	Construction	C.1 Well Drilling	506.1243122	39.85502648	1060.969963	1.249762162	19.31127507	17.76637307
2023	004000	Construction	C.1 Well Drilling	602.2277144	47.444249	1266.208422	1.491440341	22.90889202	21.07618066
2023	005000	Construction	C.1 Well Drilling	794.4345188	62.62269405	1676.68534	1.974796699	30.10412592	27.69579585
2023	006000	Construction	C.1 Well Drilling	3880.922951	178.4587114	3961.954751	4.661204512	106.7825202	98.23991859
2023	007000	Construction	C.1 Well Drilling	4651.986081	213.7686709	4747.390168	5.585171161	127.8743862	117.6444353
2023	008000	Construction	C.1 Well Drilling	5808.580775	266.7336101	5925.543293	6.971121135	159.5121851	146.7512103
2023	009000	Construction	C.1 Well Drilling	6965.17547	319.6985494	7103.696418	8.357071108	191.1499841	175.8579854
2023	010000	Construction	C.1 Well Drilling	8892.833295	407.9734481	9067.284959	10.66698773	243.879649	224.3692771
2023	011000	Construction	C.1 Well Drilling	13468.3814	608.4672392	13484.46933	15.8601023	363.9836776	334.8649834
2023	012000	Construction	C.1 Well Drilling	16829.07493	760.1068205	16846.89225	19.81478506	454.6487994	418.2768955
2023	013000	Construction	C.1 Well Drilling	20669.86753	933.4091991	20689.6613	24.3344225	558.2660815	513.604795
2023	014000	Construction	C.1 Well Drilling	25470.85828	1150.037172	25493.12261	29.9839693	687.7876841	632.7646694
2023	015000	Construction	C.1 Well Drilling	31232.04718	1409.99074	31257.27618	36.76342545	843.2136073	775.7565187
2024	001000	Construction	C.1 Well Drilling	279.1916833	23.5733669	650.4930445	0.766405804	10.7065109	9.849990027
2024	002000	Construction	C.1 Well Drilling	364.3215201	30.8390318	855.7315035	1.008083983	13.88905201	12.77792785
2024	003000	Construction	C.1 Well Drilling	449.451357	38.1046967	1060.969963	1.249762162	17.07159313	15.70586568
2024	004000	Construction	C.1 Well Drilling	534.5811938	45.3703616	1266.208422	1.491440341	20.25413424	18.6338035
2024	005000	Construction	C.1 Well Drilling	704.8408675	59.9016914	1676.68534	1.974796699	26.61921647	24.48967915
2024	006000	Construction	C.1 Well Drilling	3872.359814	180.2189412	3961.954751	4.661204512	105.3744057	96.94445324
2024	007000	Construction	C.1 Well Drilling	4642.071342	215.9074549	4747.390168	5.585171161	126.2175093	116.1201086
2024	008000	Construction	C.1 Well Drilling	5796.638635	269.4402256	5925.543293	6.971121135	157.4821648	144.8835916
2024	009000	Construction	C.1 Well Drilling	6951.205927	322.9729963	7103.696418	8.357071108	188.7468202	173.6470746
2024	010000	Construction	C.1 Well Drilling	8875.484748	412.1942808	9067.284959	10.66698773	240.8545793	221.5862129
2024	011000	Construction	C.1 Well Drilling	13456.8761	615.976267	13484.46933	15.8601023	360.6164814	331.7671629
2024	012000	Construction	C.1 Well Drilling	16815.14459	769.5262407	16846.89225	19.81478506	450.4808799	414.4424095
2024	013000	Construction	C.1 Well Drilling	20653.16571	945.0119249	20689.6613	24.3344225	553.1830496	508.9284056
2024	014000	Construction	C.1 Well Drilling	25450.69211	1164.36903	25493.12261	29.9839693	681.5607616	627.0359007
2024	015000	Construction	C.1 Well Drilling	31207.7238	1427.597556	31257.27618	36.76342545	835.6140162	768.7648949
2025	001000	Construction	C.1 Well Drilling	259.2889181	22.75828312	650.4930445	0.766405804	9.567177173	8.801802999
2025	002000	Construction	C.1 Well Drilling	338.491929	29.80596118	855.7315035	1.008083983	12.43192262	11.43736881
2025	003000	Construction	C.1 Well Drilling	417.6949398	36.85363923	1060.969963	1.249762162	15.29666807	14.07293462
2025	004000	Construction	C.1 Well Drilling	496.8979507	43.90131728	1266.208422	1.491440341	18.16141351	16.70850043
2025	005000	Construction	C.1 Well Drilling	655.3039724	57.99667339	1676.68534	1.974796699	23.8909044	21.97963205
2025	006000	Construction	C.1 Well Drilling	3854.5428	181.183546	3961.954751	4.661204512	103.286051	95.02316693
2025	007000	Construction	C.1 Well Drilling	4621.115383	217.0972054	4747.390168	5.585171161	123.7486731	113.8487792
2025	008000	Construction	C.1 Well Drilling	5770.974257	270.9676945	5925.543293	6.971121135	154.4426061	142.0871976
2025	009000	Construction	C.1 Well Drilling	6920.833131	324.8381836	7103.696418	8.357071108	185.1365392	170.325616
2025	010000	Construction	C.1 Well Drilling	8837.264589	414.6223321	9067.284959	10.66698773	236.2930943	217.3896467
2025	011000	Construction	C.1 Well Drilling	13418.10925	621.1381394	13484.46933	15.8601023	355.2807659	326.8583046
2025	012000	Construction	C.1 Well Drilling	16767.21659	776.018862	16846.89225	19.81478506	443.8577221	408.3491044
2025	013000	Construction	C.1 Well Drilling	20594.76783	953.0254021	20689.6613	24.3344225	545.0885293	501.481447
2025	014000	Construction	C.1 Well Drilling	25379.20689	1174.283577	25493.12261	29.9839693	671.6270382	617.8968752
2025	015000	Construction	C.1 Well Drilling	31120.53376	1439.793387	31257.27618	36.76342545	823.473249	757.5953891

Drilling Emissions in Lbs/Well Drilled

CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB
2026	001000	Construction	C.1 Well Drilling	248.7099637	22.54780152	650.4930445	0.766405804	8.829692143	8.123316771
2026	002000	Construction	C.1 Well Drilling	324.8772241	29.55905691	855.7315035	1.008083983	11.49217578	10.57280172
2026	003000	Construction	C.1 Well Drilling	401.0444845	36.5703123	1060.969963	1.249762162	14.15465942	13.02228666
2026	004000	Construction	C.1 Well Drilling	477.2117449	43.58156769	1266.208422	1.491440341	16.81714305	15.47177161
2026	005000	Construction	C.1 Well Drilling	629.5462656	57.60407848	1676.68534	1.974796699	22.14211033	20.3707415
2026	006000	Construction	C.1 Well Drilling	2751.246266	132.6260497	3961.954751	4.661204512	61.34753113	56.43972864
2026	007000	Construction	C.1 Well Drilling	3297.453882	158.8484526	4747.390168	5.585171161	73.44858911	67.57270198
2026	008000	Construction	C.1 Well Drilling	4116.765307	198.1820569	5925.543293	6.971121135	91.60017608	84.27216199
2026	009000	Construction	C.1 Well Drilling	4936.076732	237.5156612	7103.696418	8.357071108	109.751763	100.971622
2026	010000	Construction	C.1 Well Drilling	6301.595774	303.0716684	9067.284959	10.66698773	140.004408	128.8040554
2026	011000	Construction	C.1 Well Drilling	9527.043073	450.2183429	13484.46933	15.8601023	208.1908107	191.5355459
2026	012000	Construction	C.1 Well Drilling	11903.7518	562.3944198	16846.89225	19.81478506	260.0279531	239.2257169
2026	013000	Construction	C.1 Well Drilling	14619.99034	690.5956505	20689.6613	24.3344225	319.2704015	293.7287694
2026	014000	Construction	C.1 Well Drilling	18015.28851	850.8471889	25493.12261	29.9839693	393.3234621	361.8575851
2026	015000	Construction	C.1 Well Drilling	22089.64632	1043.149035	31257.27618	36.76342545	482.1871347	443.6121639
2027	001000	Construction	C.1 Well Drilling	237.4394104	22.28579071	650.4930445	0.766405804	8.101693118	7.453557668
2027	002000	Construction	C.1 Well Drilling	310.3226543	29.23918253	855.7315035	1.008083983	10.56198754	9.71702854
2027	003000	Construction	C.1 Well Drilling	383.2058981	36.19257436	1060.969963	1.249762162	13.02228197	11.98049941
2027	004000	Construction	C.1 Well Drilling	456.089142	43.14596618	1266.208422	1.491440341	15.48257639	14.24397028
2027	005000	Construction	C.1 Well Drilling	601.8556298	57.05274983	1676.68534	1.974796699	20.40316524	18.77091203
2027	006000	Construction	C.1 Well Drilling	2732.765427	134.013557	3961.954751	4.661204512	59.61227168	54.84328995
2027	007000	Construction	C.1 Well Drilling	3275.560577	160.5311453	4747.390168	5.585171161	71.39056405	65.67931893
2027	008000	Construction	C.1 Well Drilling	4089.753302	200.3075278	5925.543293	6.971121135	89.05800261	81.9333624
2027	009000	Construction	C.1 Well Drilling	4903.946026	240.0839103	7103.696418	8.357071108	106.7254412	98.18740587
2027	010000	Construction	C.1 Well Drilling	6260.9339	306.3778812	9067.284959	10.66698773	136.1711721	125.2774783
2027	011000	Construction	C.1 Well Drilling	9482.797117	456.3735298	13484.46933	15.8601023	203.5993388	187.3113917
2027	012000	Construction	C.1 Well Drilling	11848.79898	570.1105084	16846.89225	19.81478506	254.3189711	233.9734534
2027	013000	Construction	C.1 Well Drilling	14552.8011	700.0956269	20689.6613	24.3344225	312.2842651	287.3015239
2027	014000	Construction	C.1 Well Drilling	17932.80376	862.5770249	25493.12261	29.9839693	384.7408826	353.961612
2027	015000	Construction	C.1 Well Drilling	21988.80695	1057.554703	31257.27618	36.76342545	471.6888236	433.9537177
2028	001000	Construction	C.1 Well Drilling	220.3047946	21.91287962	650.4930445	0.766405804	7.431979033	6.83742071
2028	002000	Construction	C.1 Well Drilling	287.738463	28.7537402	855.7315035	1.008083983	9.688992596	8.913873189
2028	003000	Construction	C.1 Well Drilling	355.1721314	35.59460077	1060.969963	1.249762162	11.94600616	10.99032567
2028	004000	Construction	C.1 Well Drilling	422.6057999	42.43546135	1266.208422	1.491440341	14.20301972	13.06677815
2028	005000	Construction	C.1 Well Drilling	557.4731368	56.11718251	1676.68534	1.974796699	18.71704685	17.2196831
2028	006000	Construction	C.1 Well Drilling	2729.804588	136.2304136	3961.954751	4.661204512	58.97986828	54.26147881
2028	007000	Construction	C.1 Well Drilling	3272.164748	163.1984367	4747.390168	5.585171161	70.64365426	64.99216192
2028	008000	Construction	C.1 Well Drilling	4085.704988	203.6504715	5925.543293	6.971121135	88.13933324	81.08818658
2028	009000	Construction	C.1 Well Drilling	4899.245228	244.1025062	7103.696418	8.357071108	105.6350122	97.18421124
2028	010000	Construction	C.1 Well Drilling	6255.145627	311.522564	9067.284959	10.66698773	134.7944772	124.010919
2028	011000	Construction	C.1 Well Drilling	9482.668135	464.5924702	13484.46933	15.8601023	202.0884447	185.9213691
2028	012000	Construction	C.1 Well Drilling	11848.83422	580.3930133	16846.89225	19.81478506	252.4453213	232.2496956
2028	013000	Construction	C.1 Well Drilling	14553.02403	712.7364911	20689.6613	24.3344225	309.9960374	285.1963544
2028	014000	Construction	C.1 Well Drilling	17933.2613	878.1658384	25493.12261	29.9839693	381.9344325	351.3796779
2028	015000	Construction	C.1 Well Drilling	21989.54602	1076.681055	31257.27618	36.76342545	468.2605067	430.7996662

Drilling Emissions in Lbs/Well Drilled

CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB
2029	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229	650.4930445	0.766405804	7.147531861	6.575729312
2029	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116	855.7315035	1.008083983	9.325831746	8.579765206
2029	003000	Construction	C.1 Well Drilling	342.48545	34.62182004	1060.969963	1.249762162	11.50413163	10.5838011
2029	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891	1266.208422	1.491440341	13.68243151	12.58783699
2029	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666	1676.68534	1.974796699	18.03903128	16.59590878
2029	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451	3961.954751	4.661204512	58.61540453	53.92617217
2029	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389	4747.390168	5.585171161	70.21595899	64.59868227
2029	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798	5925.543293	6.971121135	87.61679069	80.60744744
2029	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206	7103.696418	8.357071108	105.0176224	96.6162126
2029	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553	9067.284959	10.66698773	134.0190085	123.2974879
2029	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126	13484.46933	15.8601023	201.3925694	185.2811638
2029	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218	16846.89225	19.81478506	251.5875537	231.4605494
2029	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895	20689.6613	24.3344225	308.95325	284.23699
2029	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741	25493.12261	29.9839693	380.6603704	350.2075408
2029	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176	31257.27618	36.76342545	466.7089149	429.3722017
2030	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229	650.4930445	0.766405804	7.147531861	6.575729312
2030	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116	855.7315035	1.008083983	9.325831746	8.579765206
2030	003000	Construction	C.1 Well Drilling	342.48545	34.62182004	1060.969963	1.249762162	11.50413163	10.5838011
2030	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891	1266.208422	1.491440341	13.68243151	12.58783699
2030	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666	1676.68534	1.974796699	18.03903128	16.59590878
2030	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451	3961.954751	4.661204512	58.61540453	53.92617217
2030	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389	4747.390168	5.585171161	70.21595899	64.59868227
2030	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798	5925.543293	6.971121135	87.61679069	80.60744744
2030	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206	7103.696418	8.357071108	105.0176224	96.6162126
2030	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553	9067.284959	10.66698773	134.0190085	123.2974879
2030	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126	13484.46933	15.8601023	201.3925694	185.2811638
2030	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218	16846.89225	19.81478506	251.5875537	231.4605494
2030	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895	20689.6613	24.3344225	308.95325	284.23699
2030	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741	25493.12261	29.9839693	380.6603704	350.2075408
2030	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176	31257.27618	36.76342545	466.7089149	429.3722017
2031	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229	650.4930445	0.766405804	7.147531861	6.575729312
2031	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116	855.7315035	1.008083983	9.325831746	8.579765206
2031	003000	Construction	C.1 Well Drilling	342.48545	34.62182004	1060.969963	1.249762162	11.50413163	10.5838011
2031	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891	1266.208422	1.491440341	13.68243151	12.58783699
2031	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666	1676.68534	1.974796699	18.03903128	16.59590878
2031	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451	3961.954751	4.661204512	58.61540453	53.92617217
2031	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389	4747.390168	5.585171161	70.21595899	64.59868227
2031	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798	5925.543293	6.971121135	87.61679069	80.60744744
2031	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206	7103.696418	8.357071108	105.0176224	96.6162126
2031	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553	9067.284959	10.66698773	134.0190085	123.2974879
2031	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126	13484.46933	15.8601023	201.3925694	185.2811638
2031	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218	16846.89225	19.81478506	251.5875537	231.4605494
2031	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895	20689.6613	24.3344225	308.95325	284.23699
2031	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741	25493.12261	29.9839693	380.6603704	350.2075408
2031	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176	31257.27618	36.76342545	466.7089149	429.3722017

Drilling Emissions in Lbs/Well Drilled

CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB
2032	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229	650.4930445	0.766405804	7.147531861	6.575729312
2032	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116	855.7315035	1.008083983	9.325831746	8.579765206
2032	003000	Construction	C.1 Well Drilling	342.48545	34.62182004	1060.969963	1.249762162	11.50413163	10.5838011
2032	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891	1266.208422	1.491440341	13.68243151	12.58783699
2032	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666	1676.68534	1.974796699	18.03903128	16.59590878
2032	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451	3961.954751	4.661204512	58.61540453	53.92617217
2032	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389	4747.390168	5.585171161	70.21595899	64.59868227
2032	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798	5925.543293	6.971121135	87.61679069	80.60744744
2032	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206	7103.696418	8.357071108	105.0176224	96.6162126
2032	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553	9067.284959	10.66698773	134.0190085	123.2974879
2032	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126	13484.46933	15.8601023	201.3925694	185.2811638
2032	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218	16846.89225	19.81478506	251.5875537	231.4605494
2032	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895	20689.6613	24.3344225	308.95325	284.23699
2032	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741	25493.12261	29.9839693	380.6603704	350.2075408
2032	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176	31257.27618	36.76342545	466.7089149	429.3722017
2033	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229	650.4930445	0.766405804	7.147531861	6.575729312
2033	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116	855.7315035	1.008083983	9.325831746	8.579765206
2033	003000	Construction	C.1 Well Drilling	342.48545	34.62182004	1060.969963	1.249762162	11.50413163	10.5838011
2033	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891	1266.208422	1.491440341	13.68243151	12.58783699
2033	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666	1676.68534	1.974796699	18.03903128	16.59590878
2033	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451	3961.954751	4.661204512	58.61540453	53.92617217
2033	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389	4747.390168	5.585171161	70.21595899	64.59868227
2033	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798	5925.543293	6.971121135	87.61679069	80.60744744
2033	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206	7103.696418	8.357071108	105.0176224	96.6162126
2033	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553	9067.284959	10.66698773	134.0190085	123.2974879
2033	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126	13484.46933	15.8601023	201.3925694	185.2811638
2033	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218	16846.89225	19.81478506	251.5875537	231.4605494
2033	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895	20689.6613	24.3344225	308.95325	284.23699
2033	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741	25493.12261	29.9839693	380.6603704	350.2075408
2033	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176	31257.27618	36.76342545	466.7089149	429.3722017
2034	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229	650.4930445	0.766405804	7.147531861	6.575729312
2034	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116	855.7315035	1.008083983	9.325831746	8.579765206
2034	003000	Construction	C.1 Well Drilling	342.48545	34.62182004	1060.969963	1.249762162	11.50413163	10.5838011
2034	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891	1266.208422	1.491440341	13.68243151	12.58783699
2034	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666	1676.68534	1.974796699	18.03903128	16.59590878
2034	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451	3961.954751	4.661204512	58.61540453	53.92617217
2034	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389	4747.390168	5.585171161	70.21595899	64.59868227
2034	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798	5925.543293	6.971121135	87.61679069	80.60744744
2034	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206	7103.696418	8.357071108	105.0176224	96.6162126
2034	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553	9067.284959	10.66698773	134.0190085	123.2974879
2034	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126	13484.46933	15.8601023	201.3925694	185.2811638
2034	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218	16846.89225	19.81478506	251.5875537	231.4605494
2034	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895	20689.6613	24.3344225	308.95325	284.23699
2034	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741	25493.12261	29.9839693	380.6603704	350.2075408
2034	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176	31257.27618	36.76342545	466.7089149	429.3722017

Drilling Emissions in Lbs/Well Drilled

CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB
2035	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229	650.4930445	0.766405804	7.147531861	6.575729312
2035	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116	855.7315035	1.008083983	9.325831746	8.579765206
2035	003000	Construction	C.1 Well Drilling	342.48545	34.62182004	1060.969963	1.249762162	11.50413163	10.5838011
2035	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891	1266.208422	1.491440341	13.68243151	12.58783699
2035	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666	1676.68534	1.974796699	18.03903128	16.59590878
2035	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451	3961.954751	4.661204512	58.61540453	53.92617217
2035	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389	4747.390168	5.585171161	70.21595899	64.59868227
2035	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798	5925.543293	6.971121135	87.61679069	80.60744744
2035	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206	7103.696418	8.357071108	105.0176224	96.6162126
2035	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553	9067.284959	10.66698773	134.0190085	123.2974879
2035	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126	13484.46933	15.8601023	201.3925694	185.2811638
2035	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218	16846.89225	19.81478506	251.5875537	231.4605494
2035	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895	20689.6613	24.3344225	308.95325	284.23699
2035	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741	25493.12261	29.9839693	380.6603704	350.2075408
2035	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176	31257.27618	36.76342545	466.7089149	429.3722017

Amount of Drilling Emissions Reduced in Changing from 0.5025 to 0.4 Load Factor in Lbs/Well Drilled

CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB
2012	001000	Construction	C.1 Well Drilling	11.05442721	0.565463213	8.298298543	0.00975125	0.38655415	0.355629831
2012	002000	Construction	C.1 Well Drilling	68.344924	3.494210239	51.29527497	0.06027678	2.390403979	2.199171709
2012	003000	Construction	C.1 Well Drilling	56.19532898	2.872122737	42.17168126	0.049555574	1.965727134	1.808468981
2012	004000	Construction	C.1 Well Drilling	12.61775111	0.64474702	9.46822263	0.011126019	0.441413043	0.406099999
2012	005000	Construction	C.1 Well Drilling	29.00922487	1.481910205	21.76602901	0.025577057	1.014965728	0.933768462
2012	006000	Construction	C.1 Well Drilling	18.28398248	0.807142124	14.03692107	0.01649466	0.561438642	0.51652355
2012	007000	Construction	C.1 Well Drilling	13.98891888	0.617320004	10.74129613	0.012621997	0.429454073	0.395097749
2012	008000	Construction	C.1 Well Drilling	9.138976901	0.403152741	7.018460534	0.008247329	0.280498266	0.258058405
2012	009000	Construction	C.1 Well Drilling	15.73319589	0.693881929	12.08395814	0.014199747	0.48281673	0.444191393
2012	010000	Construction	C.1 Well Drilling	12.79161405	0.564002445	9.825844751	0.011546259	0.392479592	0.361081222
2012	011000	Construction	C.1 Well Drilling	23.18668638	1.01286156	17.92906876	0.021068288	0.703345058	0.647077454
2012	012000	Construction	C.1 Well Drilling	31.30009262	1.367088016	24.20424283	0.028442185	0.949364838	0.873415654
2012	013000	Construction	C.1 Well Drilling	28.48342914	1.243935787	22.02714162	0.025883892	0.863869737	0.794760156
2012	014000	Construction	C.1 Well Drilling	10.53184416	0.459909904	8.144919809	0.009571021	0.319399561	0.293847597
2012	015000	Construction	C.1 Well Drilling	2.152670397	0.093997474	1.664842099	0.001956341	0.065280981	0.060058502
2015	001000	Construction	C.1 Well Drilling	9.035197348	0.473784232	7.516140189	0.008832143	0.313926732	0.288812604
2015	002000	Construction	C.1 Well Drilling	58.7427691	3.080331013	48.86654616	0.057422795	2.041009778	1.877729038
2015	003000	Construction	C.1 Well Drilling	52.5887647	2.757629529	43.74719381	0.051406945	1.827189635	1.68101448
2015	004000	Construction	C.1 Well Drilling	12.19611777	0.639535347	10.1456258	0.011922029	0.423752489	0.389852289
2015	005000	Construction	C.1 Well Drilling	27.07761928	1.419885864	22.52515083	0.026469094	0.940808277	0.865543607
2015	006000	Construction	C.1 Well Drilling	20.09188211	0.958854265	15.4851675	0.018196481	0.623483279	0.573604616
2015	007000	Construction	C.1 Well Drilling	14.89959797	0.711060465	11.48338265	0.013494016	0.462358382	0.425369713
2015	008000	Construction	C.1 Well Drilling	8.465680667	0.404011625	6.524649228	0.007667056	0.262703628	0.241687338
2015	009000	Construction	C.1 Well Drilling	15.03504887	0.717524649	11.58777703	0.013616689	0.466561644	0.429236714
2015	010000	Construction	C.1 Well Drilling	17.13453767	0.817719534	13.20589004	0.015518119	0.531712147	0.489175172
2015	011000	Construction	C.1 Well Drilling	24.62629897	1.170934655	19.01439675	0.022343647	0.758777133	0.698074962
2015	012000	Construction	C.1 Well Drilling	40.71283297	1.935819392	31.43509141	0.036939089	1.254429934	1.154075543
2015	013000	Construction	C.1 Well Drilling	43.91879124	2.088256742	33.91046795	0.039847879	1.353210826	1.244953958
2015	014000	Construction	C.1 Well Drilling	15.03679545	0.714971623	11.61017313	0.013643009	0.463308617	0.426243929
2015	015000	Construction	C.1 Well Drilling	3.688270582	0.175370398	2.847778316	0.003346398	0.113641736	0.104550397
2016	001000	Construction	C.1 Well Drilling	8.584737234	0.45153183	7.508567251	0.008823244	0.293782729	0.27028012
2016	002000	Construction	C.1 Well Drilling	55.88029069	2.939741273	48.87930058	0.057437782	1.912065342	1.759100153
2016	003000	Construction	C.1 Well Drilling	50.04872882	2.633290502	43.78060383	0.051446205	1.712387417	1.575396439
2016	004000	Construction	C.1 Well Drilling	11.58609728	0.609649955	10.13540351	0.011910017	0.396389268	0.364678126
2016	005000	Construction	C.1 Well Drilling	25.72212008	1.353624369	22.50245547	0.026442425	0.879954313	0.809557961
2016	006000	Construction	C.1 Well Drilling	19.75553299	0.938538613	15.46956532	0.018178147	0.605223942	0.556806025
2016	007000	Construction	C.1 Well Drilling	14.65093237	0.69605737	11.47181249	0.01348042	0.448865176	0.412955964
2016	008000	Construction	C.1 Well Drilling	8.324827807	0.395522823	6.518075275	0.007659331	0.255064179	0.234659045
2016	009000	Construction	C.1 Well Drilling	14.78541008	0.702490989	11.57610169	0.01360297	0.45302632	0.416784215
2016	010000	Construction	C.1 Well Drilling	16.85068006	0.800639378	13.19258436	0.015502484	0.516327017	0.475020853
2016	011000	Construction	C.1 Well Drilling	24.27275422	1.1494693	18.99523867	0.022321135	0.73933894	0.680191826
2016	012000	Construction	C.1 Well Drilling	40.12913961	1.900399282	31.40341878	0.036901871	1.22234742	1.12455963
2016	013000	Construction	C.1 Well Drilling	43.28977424	2.050101312	33.87630123	0.03980773	1.318644768	1.213153184
2016	014000	Construction	C.1 Well Drilling	14.82161527	0.701923315	11.59847523	0.013629262	0.451486107	0.415367219
2016	015000	Construction	C.1 Well Drilling	3.635525796	0.172172841	2.844909018	0.003343027	0.110744239	0.1018847

Amount of Drilling Emissions Reduced in Changing from 0.5025 to 0.4 Load Factor in Lbs/Well Drilled

CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB
2017	001000	Construction	C.1 Well Drilling	8.07546622	0.426174033	7.497236416	0.008809929	0.272737785	0.250918771
2017	002000	Construction	C.1 Well Drilling	52.71471739	2.783256804	48.92933244	0.057496574	1.78077769	1.638315511
2017	003000	Construction	C.1 Well Drilling	47.14460059	2.48988786	43.75322195	0.051414029	1.592845597	1.465417964
2017	004000	Construction	C.1 Well Drilling	10.95556971	0.578721195	10.16653115	0.011946595	0.370186866	0.340571916
2017	005000	Construction	C.1 Well Drilling	24.21515928	1.279477678	22.46849804	0.026402522	0.818334381	0.752867624
2017	006000	Construction	C.1 Well Drilling	19.54213271	0.924702226	15.4462209	0.018150715	0.591220464	0.543922826
2017	007000	Construction	C.1 Well Drilling	14.49432557	0.685919102	11.4545009	0.013460077	0.438590777	0.403503517
2017	008000	Construction	C.1 Well Drilling	8.23678474	0.389832403	6.508239145	0.007647772	0.249289527	0.229346365
2017	009000	Construction	C.1 Well Drilling	14.63015958	0.692468033	11.55863273	0.013582442	0.442845678	0.407418024
2017	010000	Construction	C.1 Well Drilling	16.67513384	0.789320334	13.17267603	0.01547909	0.50481831	0.464432842
2017	011000	Construction	C.1 Well Drilling	24.057851	1.135614544	18.96657382	0.022287451	0.725228492	0.667210213
2017	012000	Construction	C.1 Well Drilling	39.77549108	1.877619533	31.35602931	0.036846184	1.199135472	1.103204638
2017	013000	Construction	C.1 Well Drilling	42.90959146	2.02562852	33.82518005	0.039747658	1.293698168	1.190202312
2017	014000	Construction	C.1 Well Drilling	14.69182103	0.693572905	11.5809725	0.013608695	0.442971343	0.407533637
2017	015000	Construction	C.1 Well Drilling	3.603761897	0.170130187	2.840615896	0.003337982	0.108660857	0.099967989
2018	001000	Construction	C.1 Well Drilling	6.975163426	0.370470797	7.532292294	0.008851123	0.226623907	0.208494001
2018	002000	Construction	C.1 Well Drilling	45.26766893	2.407046151	48.88650838	0.057446252	1.470946396	1.353270714
2018	003000	Construction	C.1 Well Drilling	40.52324658	2.156302433	43.76454972	0.05142734	1.316887414	1.211536432
2018	004000	Construction	C.1 Well Drilling	9.399135632	0.500385067	10.15121242	0.011928594	0.30546166	0.281024727
2018	005000	Construction	C.1 Well Drilling	20.82902669	1.109570333	22.49644637	0.026435363	0.676969187	0.622811647
2018	006000	Construction	C.1 Well Drilling	18.83906704	0.877913252	15.42294684	0.018123366	0.550789572	0.506726405
2018	007000	Construction	C.1 Well Drilling	13.97501339	0.651390566	11.43724148	0.013439796	0.408734405	0.376035654
2018	008000	Construction	C.1 Well Drilling	7.942897	0.370310437	6.498432657	0.007636249	0.232397846	0.213806018
2018	009000	Construction	C.1 Well Drilling	14.10961151	0.65791185	11.5412164	0.013561977	0.412932021	0.37989746
2018	010000	Construction	C.1 Well Drilling	16.08363091	0.750081554	13.1528277	0.015455766	0.470834562	0.433167794
2018	011000	Construction	C.1 Well Drilling	23.33607659	1.08738138	18.93799536	0.022253868	0.683120341	0.628470714
2018	012000	Construction	C.1 Well Drilling	38.58436984	1.798060126	31.30878266	0.036790665	1.129661973	1.039289018
2018	013000	Construction	C.1 Well Drilling	41.62639032	1.939949646	33.77421293	0.039687767	1.218867215	1.121357836
2018	014000	Construction	C.1 Well Drilling	14.25296745	0.664279584	11.56352251	0.01358819	0.417383001	0.383992362
2018	015000	Construction	C.1 Well Drilling	3.496213131	0.162953059	2.836335711	0.003332952	0.102390726	0.094199468
2019	001000	Construction	C.1 Well Drilling	6.418225543	0.345363387	7.520959858	0.008837806	0.204402034	0.188049878
2019	002000	Construction	C.1 Well Drilling	41.77150316	2.251731651	48.93637885	0.057504855	1.331199311	1.224703393
2019	003000	Construction	C.1 Well Drilling	37.33926095	2.015047332	43.73727439	0.051395289	1.190456544	1.095220031
2019	004000	Construction	C.1 Well Drilling	8.654114058	0.467381998	10.13593978	0.011910647	0.275992813	0.253913387
2019	005000	Construction	C.1 Well Drilling	19.23387234	1.039770599	22.5243106	0.026468106	0.613628983	0.564538659
2019	006000	Construction	C.1 Well Drilling	15.97402008	0.666890668	15.39974281	0.018096099	0.419085169	0.385558355
2019	007000	Construction	C.1 Well Drilling	11.84854373	0.494614285	11.420034	0.013419576	0.310859745	0.285990967
2019	008000	Construction	C.1 Well Drilling	6.733633182	0.281068643	6.488655677	0.00762476	0.176669208	0.162535671
2019	009000	Construction	C.1 Well Drilling	11.96072105	0.499222885	11.52385249	0.013541572	0.313817348	0.28871196
2019	010000	Construction	C.1 Well Drilling	13.63313287	0.568990122	13.13303909	0.015432513	0.357704475	0.329088115
2019	011000	Construction	C.1 Well Drilling	19.75289694	0.818074866	18.90950289	0.022220387	0.515035751	0.473832891
2019	012000	Construction	C.1 Well Drilling	32.65872728	1.352533663	31.26167817	0.036735313	0.851558349	0.783433684
2019	013000	Construction	C.1 Well Drilling	35.23265249	1.459097047	33.72339917	0.039628056	0.918685635	0.845190782
2019	014000	Construction	C.1 Well Drilling	12.06347929	0.499577852	11.54612504	0.013567746	0.314557111	0.289392543
2019	015000	Construction	C.1 Well Drilling	2.959087472	0.122541122	2.832068405	0.003327938	0.077159425	0.070986672

Amount of Drilling Emissions Reduced in Changing from 0.5025 to 0.4 Load Factor in Lbs/Well Drilled

CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB
2020	001000	Construction	C.1 Well Drilling	5.344738285	0.310027837	7.532768121	0.008851682	0.172681128	0.158866643
2020	002000	Construction	C.1 Well Drilling	34.66714909	2.017633832	48.92448175	0.057490874	1.1216348	1.031904039
2020	003000	Construction	C.1 Well Drilling	30.97403764	1.806432052	43.74859209	0.051408588	1.003023838	0.92278194
2020	004000	Construction	C.1 Well Drilling	7.194162608	0.420161903	10.16692633	0.011947059	0.233105175	0.21445676
2020	005000	Construction	C.1 Well Drilling	15.90303899	0.930459145	22.49047338	0.026428345	0.515679865	0.474425471
2020	006000	Construction	C.1 Well Drilling	15.66898845	0.649093277	15.37660849	0.018068914	0.401766906	0.369625553
2020	007000	Construction	C.1 Well Drilling	11.62366965	0.481518976	11.40287821	0.013399416	0.298110292	0.27426147
2020	008000	Construction	C.1 Well Drilling	6.606621727	0.273686847	6.478908072	0.007613306	0.169478603	0.155920315
2020	009000	Construction	C.1 Well Drilling	11.73604875	0.486182672	11.50654074	0.013521229	0.301110451	0.277021616
2020	010000	Construction	C.1 Well Drilling	13.37820513	0.554215863	13.11330994	0.015409329	0.343302402	0.315838208
2020	011000	Construction	C.1 Well Drilling	19.44451294	0.800144449	18.88109602	0.022187007	0.497453391	0.45765712
2020	012000	Construction	C.1 Well Drilling	32.15024895	1.322997933	31.21471521	0.036680127	0.822591028	0.756783748
2020	013000	Construction	C.1 Well Drilling	34.6852187	1.4273218	33.67273808	0.039568525	0.887517963	0.816516525
2020	014000	Construction	C.1 Well Drilling	11.87635732	0.488723152	11.52877983	0.013547364	0.303908858	0.27959615
2020	015000	Construction	C.1 Well Drilling	2.913249431	0.119883409	2.827813921	0.003322938	0.074552046	0.068587882
2021	001000	Construction	C.1 Well Drilling	5.115353917	0.299649878	7.521468969	0.008838405	0.15938103	0.146630553
2021	002000	Construction	C.1 Well Drilling	33.24901115	1.955527807	48.91262033	0.057476936	1.038325937	0.955259883
2021	003000	Construction	C.1 Well Drilling	29.76339922	1.754900977	43.79832916	0.051467034	0.930805019	0.856340626
2021	004000	Construction	C.1 Well Drilling	6.897196452	0.407363298	10.15167594	0.011929139	0.215910539	0.198637696
2021	005000	Construction	C.1 Well Drilling	15.29520235	0.905330545	22.51826298	0.026461	0.479402803	0.441050574
2021	006000	Construction	C.1 Well Drilling	15.47321933	0.645432611	15.35354358	0.018041811	0.387830042	0.356803637
2021	007000	Construction	C.1 Well Drilling	11.47967618	0.478918511	11.38577389	0.013379317	0.287858919	0.264830206
2021	008000	Construction	C.1 Well Drilling	6.525482189	0.272274562	6.46918971	0.007601886	0.163701939	0.150605784
2021	009000	Construction	C.1 Well Drilling	11.59274644	0.483752083	11.48928093	0.013500948	0.290908254	0.267635594
2021	010000	Construction	C.1 Well Drilling	13.21588748	0.551542416	13.09363998	0.015386215	0.33174674	0.305206999
2021	011000	Construction	C.1 Well Drilling	19.25599381	0.799679151	18.85277438	0.022153726	0.483470266	0.444792645
2021	012000	Construction	C.1 Well Drilling	31.83977931	1.322347546	31.16789314	0.036625107	0.799563516	0.735598437
2021	013000	Construction	C.1 Well Drilling	34.35126135	1.426715786	33.62222897	0.039509172	0.862749353	0.793729403
2021	014000	Construction	C.1 Well Drilling	11.76228958	0.48854272	11.51148666	0.013527043	0.295449097	0.27181317
2021	015000	Construction	C.1 Well Drilling	2.88532349	0.119844426	2.8235722	0.003317954	0.072480997	0.066682518
2022	001000	Construction	C.1 Well Drilling	3.846203059	0.25003961	7.510203664	0.008825167	0.119671728	0.110097994
2022	002000	Construction	C.1 Well Drilling	25.00717815	1.636134497	48.99294419	0.057571324	0.780589404	0.718142268
2022	003000	Construction	C.1 Well Drilling	22.29576403	1.464532968	43.77112579	0.051435067	0.697340576	0.641553336
2022	004000	Construction	C.1 Well Drilling	5.155990623	0.339595179	10.13647124	0.011911272	0.16148126	0.148562759
2022	005000	Construction	C.1 Well Drilling	11.41653009	0.754531714	22.48453617	0.026421368	0.358171627	0.329517894
2022	006000	Construction	C.1 Well Drilling	15.22020587	0.637748245	15.33054776	0.018014789	0.37028423	0.340661491
2022	007000	Construction	C.1 Well Drilling	11.29369766	0.473363224	11.36872081	0.013359278	0.274956105	0.252959618
2022	008000	Construction	C.1 Well Drilling	6.42075312	0.269199999	6.459500459	0.0075905	0.156433003	0.143918362
2022	009000	Construction	C.1 Well Drilling	11.40786456	0.478389035	11.47207282	0.013480727	0.278072728	0.25582691
2022	010000	Construction	C.1 Well Drilling	13.00657581	0.545551582	13.07402893	0.01536317	0.317211135	0.291834242
2022	011000	Construction	C.1 Well Drilling	19.01300476	0.795300945	18.82453757	0.022120545	0.466011819	0.428730874
2022	012000	Construction	C.1 Well Drilling	31.43972414	1.315258441	31.12121132	0.036570251	0.770817197	0.709151824
2022	013000	Construction	C.1 Well Drilling	33.92103815	1.419188323	33.57187116	0.039449997	0.83183308	0.765286432
2022	014000	Construction	C.1 Well Drilling	11.61536845	0.485999416	11.49424529	0.013506783	0.284890596	0.262099349
2022	015000	Construction	C.1 Well Drilling	2.849359789	0.119227211	2.819343185	0.003312984	0.069896349	0.064304642

Amount of Drilling Emissions Reduced in Changing from 0.5025 to 0.4 Load Factor in Lbs/Well Drilled

CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB
2023	001000	Construction	C.1 Well Drilling	3.536714075	0.239800977	7.521975035	0.008838999	0.10558623	0.097139335
2023	002000	Construction	C.1 Well Drilling	22.96760788	1.569033178	49.01168651	0.057593348	0.688416761	0.633343435
2023	003000	Construction	C.1 Well Drilling	20.45674489	1.404033859	43.74400378	0.051403196	0.614672513	0.565498718
2023	004000	Construction	C.1 Well Drilling	4.748035864	0.32691383	10.16731797	0.011947519	0.142906081	0.131473594
2023	005000	Construction	C.1 Well Drilling	10.46562106	0.723502748	22.45091025	0.026381854	0.315668343	0.290414873
2023	006000	Construction	C.1 Well Drilling	15.04468299	0.635008149	15.30762072	0.017987847	0.357697248	0.329081467
2023	007000	Construction	C.1 Well Drilling	11.1644143	0.471413897	11.35171874	0.013339299	0.265679799	0.244425416
2023	008000	Construction	C.1 Well Drilling	6.347798274	0.268139659	6.449840189	0.007579148	0.151195491	0.139099851
2023	009000	Construction	C.1 Well Drilling	11.27889243	0.476562064	11.45491618	0.013460566	0.268810357	0.247305529
2023	010000	Construction	C.1 Well Drilling	12.86033381	0.543539381	13.05447655	0.015340195	0.306704491	0.28216813
2023	011000	Construction	C.1 Well Drilling	18.84081435	0.795360602	18.79638522	0.022087464	0.453172385	0.416918594
2023	012000	Construction	C.1 Well Drilling	31.1559476	1.315443968	31.07466913	0.03651556	0.749653596	0.689681311
2023	013000	Construction	C.1 Well Drilling	33.6156332	1.419458348	33.52166398	0.039390999	0.809053538	0.744329253
2023	014000	Construction	C.1 Well Drilling	11.51100777	0.486111646	11.4770555	0.013486583	0.277105726	0.254937268
2023	015000	Construction	C.1 Well Drilling	2.823801445	0.119258595	2.81512682	0.00330803	0.067989646	0.062550475
2024	001000	Construction	C.1 Well Drilling	3.140782641	0.228738128	7.510742618	0.0088258	0.093163437	0.085710365
2024	002000	Construction	C.1 Well Drilling	20.39000188	1.49834924	48.96912317	0.057543332	0.607952181	0.559316019
2024	003000	Construction	C.1 Well Drilling	18.15488395	1.341542513	43.71696278	0.051371421	0.543048159	0.499604311
2024	004000	Construction	C.1 Well Drilling	4.208408813	0.312156907	10.15213531	0.011929678	0.126156985	0.116064426
2024	005000	Construction	C.1 Well Drilling	9.322141735	0.694808701	22.53988412	0.026486407	0.280232178	0.257813601
2024	006000	Construction	C.1 Well Drilling	15.32590406	0.65470304	15.62823995	0.018364604	0.360373583	0.331543696
2024	007000	Construction	C.1 Well Drilling	11.12398362	0.47541946	11.33476744	0.01331938	0.261845774	0.240898113
2024	008000	Construction	C.1 Well Drilling	6.325287977	0.270456071	6.440208771	0.00756783	0.149048408	0.137124536
2024	009000	Construction	C.1 Well Drilling	11.23946242	0.480724224	11.43781078	0.013440466	0.265034474	0.243831716
2024	010000	Construction	C.1 Well Drilling	12.81607866	0.548342705	13.03498256	0.015317287	0.30244783	0.278252002
2024	011000	Construction	C.1 Well Drilling	18.79660909	0.803973707	18.76831695	0.022054481	0.448309655	0.412444883
2024	012000	Construction	C.1 Well Drilling	31.08367207	1.329756586	31.02826594	0.036461032	0.741672087	0.682338323
2024	013000	Construction	C.1 Well Drilling	33.53831384	1.434956901	33.47160674	0.039332177	0.800489934	0.736450738
2024	014000	Construction	C.1 Well Drilling	11.48471855	0.491434662	11.45991704	0.013466444	0.274186884	0.252251934
2024	015000	Construction	C.1 Well Drilling	2.817388838	0.120567489	2.810923047	0.00330309	0.067276267	0.061894166
2025	001000	Construction	C.1 Well Drilling	2.921442963	0.221174214	7.522478082	0.00883959	0.083379523	0.076709164
2025	002000	Construction	C.1 Well Drilling	18.93980864	1.447805683	48.95726593	0.057529399	0.544038887	0.500515787
2025	003000	Construction	C.1 Well Drilling	16.87648027	1.297831144	43.72822639	0.051384657	0.48671308	0.447776038
2025	004000	Construction	C.1 Well Drilling	3.905920602	0.301599225	10.13699794	0.011911891	0.112953378	0.103917107
2025	005000	Construction	C.1 Well Drilling	8.654049713	0.671709061	22.50627594	0.026446914	0.251135024	0.23104422
2025	006000	Construction	C.1 Well Drilling	15.23264184	0.657225854	15.60493741	0.018337221	0.35270486	0.32448847
2025	007000	Construction	C.1 Well Drilling	11.25829541	0.486005123	11.52364609	0.013541329	0.261001986	0.240121828
2025	008000	Construction	C.1 Well Drilling	6.287893439	0.271583749	6.430606074	0.007556546	0.145953679	0.134277385
2025	009000	Construction	C.1 Well Drilling	11.17366697	0.482779508	11.42075639	0.013420425	0.259577368	0.238811179
2025	010000	Construction	C.1 Well Drilling	12.7418621	0.550750321	13.0155467	0.015294448	0.296277421	0.272575225
2025	011000	Construction	C.1 Well Drilling	18.7145134	0.809502182	18.74033239	0.022021596	0.441017859	0.405736431
2025	012000	Construction	C.1 Well Drilling	30.94885934	1.338976498	30.98200113	0.036406667	0.729678101	0.671303855
2025	013000	Construction	C.1 Well Drilling	33.39361653	1.444967254	33.42169878	0.039273531	0.787600556	0.72459251
2025	014000	Construction	C.1 Well Drilling	11.43538434	0.49488021	11.44282968	0.013446365	0.269787751	0.248204732
2025	015000	Construction	C.1 Well Drilling	2.805328304	0.121416177	2.806731809	0.003298165	0.066199944	0.060903949

Amount of Drilling Emissions Reduced in Changing from 0.5025 to 0.4 Load Factor in Lbs/Well Drilled

CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB
2026	001000	Construction	C.1 Well Drilling	2.798076385	0.218802423	7.511278363	0.00882643	0.07683765	0.070690641
2026	002000	Construction	C.1 Well Drilling	18.17362871	1.435465753	48.94544401	0.057515507	0.502792767	0.462569356
2026	003000	Construction	C.1 Well Drilling	16.20789927	1.288184294	43.73945646	0.051397853	0.450492037	0.414452678
2026	004000	Construction	C.1 Well Drilling	3.762538527	0.300309551	10.16770611	0.011947976	0.104909646	0.096516874
2026	005000	Construction	C.1 Well Drilling	8.301511294	0.666168791	22.47276784	0.026407539	0.232405622	0.213813171
2026	006000	Construction	C.1 Well Drilling	10.85637285	0.480371955	15.58170425	0.01830992	0.20917982	0.192445434
2026	007000	Construction	C.1 Well Drilling	8.021535022	0.355076989	11.5064893	0.013521168	0.154681952	0.142307397
2026	008000	Construction	C.1 Well Drilling	4.478835079	0.198336899	6.42103197	0.007545296	0.086436498	0.079521578
2026	009000	Construction	C.1 Well Drilling	7.957418026	0.352473874	11.40375278	0.013400444	0.153652318	0.141360133
2026	010000	Construction	C.1 Well Drilling	9.072323121	0.401976194	12.99616871	0.015271678	0.175283954	0.161261237
2026	011000	Construction	C.1 Well Drilling	13.26778028	0.58587631	18.71243115	0.02198881	0.258047088	0.237403321
2026	012000	Construction	C.1 Well Drilling	21.93918355	0.968934914	30.93587408	0.036352463	0.426835464	0.392688628
2026	013000	Construction	C.1 Well Drilling	24.32796543	1.074557146	34.29893774	0.040304367	0.473423464	0.435549586
2026	014000	Construction	C.1 Well Drilling	8.105258445	0.358040038	11.42579321	0.013426345	0.157759978	0.14513918
2026	015000	Construction	C.1 Well Drilling	1.988283666	0.08783663	2.802553052	0.003293254	0.038705856	0.035609387
2027	001000	Construction	C.1 Well Drilling	2.675439471	0.216596739	7.522978138	0.008840178	0.070612282	0.064963301
2027	002000	Construction	C.1 Well Drilling	17.34445256	1.41870539	48.90316897	0.05746583	0.461697096	0.424761337
2027	003000	Construction	C.1 Well Drilling	15.4909312	1.275204877	43.75065314	0.05141101	0.414558618	0.381393933
2027	004000	Construction	C.1 Well Drilling	3.590653138	0.296865947	10.15259059	0.011930213	0.096440693	0.088725437
2027	005000	Construction	C.1 Well Drilling	7.946104538	0.660602278	22.50033588	0.026439934	0.214416204	0.197262906
2027	006000	Construction	C.1 Well Drilling	10.76741687	0.484675908	15.55854017	0.0182827	0.202960842	0.186723975
2027	007000	Construction	C.1 Well Drilling	7.956430577	0.358304888	11.48938351	0.013501068	0.150124263	0.138114323
2027	008000	Construction	C.1 Well Drilling	4.442832726	0.200166017	6.411486333	0.007534079	0.083912699	0.077199683
2027	009000	Construction	C.1 Well Drilling	8.107215436	0.365370515	11.69455108	0.013742159	0.1532256	0.140967552
2027	010000	Construction	C.1 Well Drilling	9.000382692	0.405757253	12.97684834	0.015248974	0.170231339	0.156612831
2027	011000	Construction	C.1 Well Drilling	13.18652886	0.59300327	18.68461286	0.021956121	0.251980921	0.231822447
2027	012000	Construction	C.1 Well Drilling	21.80543821	0.980768564	30.88988418	0.036298421	0.416843568	0.383496084
2027	013000	Construction	C.1 Well Drilling	24.18016092	1.087719543	34.24794824	0.040244449	0.462375816	0.42538575
2027	014000	Construction	C.1 Well Drilling	8.056153457	0.362436394	11.4088074	0.013406386	0.154088138	0.141761088
2027	015000	Construction	C.1 Well Drilling	1.976264809	0.088917253	2.79838672	0.003288359	0.037806853	0.034782305
2028	001000	Construction	C.1 Well Drilling	2.478683765	0.212656258	7.511810927	0.008827056	0.064679072	0.059504748
2028	002000	Construction	C.1 Well Drilling	16.09835736	1.396554426	48.95234845	0.05752362	0.423961719	0.39004479
2028	003000	Construction	C.1 Well Drilling	14.36134192	1.254455953	43.76181658	0.051424128	0.380392888	0.34996146
2028	004000	Construction	C.1 Well Drilling	3.322110103	0.291543901	10.13751995	0.011912504	0.088339031	0.081271908
2028	005000	Construction	C.1 Well Drilling	7.3492114	0.648805006	22.46693607	0.026400686	0.196404861	0.18069247
2028	006000	Construction	C.1 Well Drilling	10.73978484	0.491962072	15.53544486	0.018255561	0.200509628	0.184468857
2028	007000	Construction	C.1 Well Drilling	7.936383622	0.363717562	11.47232852	0.013481026	0.148333102	0.136466455
2028	008000	Construction	C.1 Well Drilling	4.431846437	0.203204511	6.401969035	0.007522895	0.082923829	0.076289923
2028	009000	Construction	C.1 Well Drilling	8.087421139	0.370934756	11.67719152	0.01372176	0.151434946	0.13932015
2028	010000	Construction	C.1 Well Drilling	8.978713842	0.411958284	12.95758533	0.015226339	0.168260156	0.154799342
2028	011000	Construction	C.1 Well Drilling	13.1667755	0.602786693	18.65687717	0.021923529	0.249739723	0.229760545
2028	012000	Construction	C.1 Well Drilling	21.77313468	0.996975568	30.84403081	0.036244539	0.413158338	0.380105672
2028	013000	Construction	C.1 Well Drilling	24.14463742	1.10571553	34.19711012	0.04018471	0.458306482	0.421641963
2028	014000	Construction	C.1 Well Drilling	8.044400034	0.368438751	11.39187201	0.013386485	0.152737097	0.14051813
2028	015000	Construction	C.1 Well Drilling	1.973397541	0.090390984	2.794232756	0.003283477	0.037476353	0.034478245

Amount of Drilling Emissions Reduced in Changing from 0.5025 to 0.4 Load Factor in Lbs/Well Drilled

CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB
2029	001000	Construction	C.1 Well Drilling	2.394302086	0.207200945	7.523475229	0.008840762	0.062300173	0.057316161
2029	002000	Construction	C.1 Well Drilling	15.5207017	1.3581491	48.94058638	0.057509799	0.407972823	0.375335005
2029	003000	Construction	C.1 Well Drilling	13.85187968	1.220482703	43.77294693	0.051437207	0.366415587	0.337102344
2029	004000	Construction	C.1 Well Drilling	3.198541772	0.283143398	10.12249398	0.011894847	0.084974972	0.078176974
2029	005000	Construction	C.1 Well Drilling	7.094589726	0.631782808	22.49443104	0.026432995	0.189521847	0.174360097
2029	006000	Construction	C.1 Well Drilling	10.72087614	0.498020734	15.51241801	0.018228503	0.198975225	0.183057207
2029	007000	Construction	C.1 Well Drilling	7.922671891	0.368218277	11.45532408	0.013461045	0.147216525	0.135439203
2029	008000	Construction	C.1 Well Drilling	4.424335716	0.205731014	6.392479951	0.007511745	0.082310025	0.075725223
2029	009000	Construction	C.1 Well Drilling	8.073893448	0.375561358	11.65988343	0.013701421	0.150326729	0.138300591
2029	010000	Construction	C.1 Well Drilling	8.963910661	0.417114299	12.93837942	0.01520377	0.167044198	0.153680661
2029	011000	Construction	C.1 Well Drilling	13.15660312	0.611364258	18.6292237	0.021891034	0.248510871	0.228630001
2029	012000	Construction	C.1 Well Drilling	21.75656878	1.011184164	30.79831338	0.036190817	0.411144186	0.378252652
2029	013000	Construction	C.1 Well Drilling	24.12647823	1.121491853	34.1464227	0.040125148	0.456087774	0.419600751
2029	014000	Construction	C.1 Well Drilling	8.038407913	0.373700581	11.37498682	0.013366643	0.152001961	0.139841804
2029	015000	Construction	C.1 Well Drilling	1.971938908	0.091682861	2.790091107	0.003278611	0.037296811	0.034313066
2030	001000	Construction	C.1 Well Drilling	2.390758471	0.206894284	7.512340337	0.008827678	0.062207967	0.057231332
2030	002000	Construction	C.1 Well Drilling	15.52660851	1.35866598	48.95921202	0.057531686	0.408128087	0.375477849
2030	003000	Construction	C.1 Well Drilling	13.84338503	1.219734244	43.74610322	0.051405663	0.366190883	0.336895616
2030	004000	Construction	C.1 Well Drilling	3.208194389	0.283997873	10.15304182	0.011930744	0.085231411	0.078412898
2030	005000	Construction	C.1 Well Drilling	7.103235781	0.63255275	22.52184462	0.026465209	0.189752814	0.174572587
2030	006000	Construction	C.1 Well Drilling	10.70500903	0.497283653	15.48945933	0.018201524	0.198680738	0.182786279
2030	007000	Construction	C.1 Well Drilling	7.910946181	0.367673306	11.43836997	0.013441122	0.146998641	0.135238751
2030	008000	Construction	C.1 Well Drilling	4.417787612	0.205426529	6.383018954	0.007500627	0.082188205	0.075613149
2030	009000	Construction	C.1 Well Drilling	8.061943926	0.375005519	11.64262658	0.013681143	0.150104242	0.138095903
2030	010000	Construction	C.1 Well Drilling	8.950643896	0.416496962	12.91923037	0.015181268	0.166796969	0.15345321
2030	011000	Construction	C.1 Well Drilling	13.13713109	0.610459427	18.60165208	0.021858635	0.24814307	0.228291625
2030	012000	Construction	C.1 Well Drilling	21.72436863	1.009687591	30.75273126	0.036137254	0.410535684	0.377692831
2030	013000	Construction	C.1 Well Drilling	24.09077057	1.119832023	34.09588532	0.040065761	0.455412755	0.418979734
2030	014000	Construction	C.1 Well Drilling	8.026510911	0.373147496	11.35815162	0.01334686	0.151776995	0.139634836
2030	015000	Construction	C.1 Well Drilling	1.9690204	0.091547169	2.785961717	0.003273758	0.03724161	0.034262282
2031	001000	Construction	C.1 Well Drilling	2.387225331	0.206588529	7.501238357	0.008814632	0.062116035	0.057146754
2031	002000	Construction	C.1 Well Drilling	15.53249787	1.359181331	48.9777826	0.057553508	0.408282893	0.37562027
2031	003000	Construction	C.1 Well Drilling	13.84690415	1.220044312	43.75722389	0.051418731	0.366283973	0.336981258
2031	004000	Construction	C.1 Well Drilling	3.203453215	0.283578172	10.13803733	0.011913112	0.085105453	0.078297016
2031	005000	Construction	C.1 Well Drilling	7.092738388	0.631617943	22.4885611	0.026426098	0.189472391	0.174314598
2031	006000	Construction	C.1 Well Drilling	10.68918882	0.496548752	15.4665685	0.018174625	0.198387121	0.182516151
2031	007000	Construction	C.1 Well Drilling	7.899255127	0.367129947	11.42146598	0.013421258	0.146781402	0.13503889
2031	008000	Construction	C.1 Well Drilling	4.411258862	0.205122943	6.373585921	0.007489543	0.082066745	0.075501405
2031	009000	Construction	C.1 Well Drilling	8.050029723	0.374451324	11.62542072	0.013660924	0.149882413	0.13789182
2031	010000	Construction	C.1 Well Drilling	8.937416344	0.415881449	12.90013791	0.015158833	0.166550471	0.153226432
2031	011000	Construction	C.1 Well Drilling	13.54086876	0.629220408	19.17332847	0.022530406	0.255769142	0.235307611
2031	012000	Construction	C.1 Well Drilling	21.69226365	1.008195442	30.70728388	0.036083849	0.409928981	0.377134664
2031	013000	Construction	C.1 Well Drilling	24.05516844	1.118177099	34.04549731	0.040006551	0.454739732	0.418360552
2031	014000	Construction	C.1 Well Drilling	8.014649072	0.372596047	11.34136617	0.013327136	0.151552694	0.139428479
2031	015000	Construction	C.1 Well Drilling	1.966110517	0.091411878	2.781844532	0.00326892	0.037186574	0.034211648

Amount of Drilling Emissions Reduced in Changing from 0.5025 to 0.4 Load Factor in Lbs/Well Drilled

CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB
2032	001000	Construction	C.1 Well Drilling	2.3981493	0.20753388	7.535564106	0.008854968	0.062400278	0.057408258
2032	002000	Construction	C.1 Well Drilling	15.51917482	1.35801549	48.93577176	0.057504141	0.407932687	0.375298081
2032	003000	Construction	C.1 Well Drilling	13.85041289	1.220353465	43.76831174	0.051431761	0.366376787	0.337066647
2032	004000	Construction	C.1 Well Drilling	3.213070096	0.284429484	10.16847208	0.011948876	0.085360942	0.078532067
2032	005000	Construction	C.1 Well Drilling	7.082271977	0.630685895	22.45537582	0.026387102	0.189192796	0.17405737
2032	006000	Construction	C.1 Well Drilling	10.6734153	0.495816019	15.44374523	0.018147806	0.198094371	0.182246821
2032	007000	Construction	C.1 Well Drilling	7.887598577	0.366588191	11.40461187	0.013401453	0.146564804	0.13483962
2032	008000	Construction	C.1 Well Drilling	4.40474938	0.204820252	6.364180728	0.007478491	0.081945643	0.075389991
2032	009000	Construction	C.1 Well Drilling	8.038150683	0.373898764	11.60826565	0.013640765	0.149661239	0.13768834
2032	010000	Construction	C.1 Well Drilling	8.92422783	0.415267753	12.8811018	0.015136463	0.1663047	0.153000323
2032	011000	Construction	C.1 Well Drilling	13.52088715	0.628291897	19.14503531	0.022497159	0.255391716	0.234960378
2032	012000	Construction	C.1 Well Drilling	21.66025342	1.006707697	30.66197062	0.036030602	0.409324069	0.376578145
2032	013000	Construction	C.1 Well Drilling	24.01967139	1.116527059	33.99525802	0.039947515	0.454068694	0.417743198
2032	014000	Construction	C.1 Well Drilling	8.002822241	0.372046225	11.32463026	0.01330747	0.151329055	0.139222731
2032	015000	Construction	C.1 Well Drilling	1.963209223	0.091276985	2.777739499	0.003264096	0.037131699	0.034161163
2033	001000	Construction	C.1 Well Drilling	2.395203894	0.207278987	7.52630893	0.008844092	0.062323638	0.057337749
2033	002000	Construction	C.1 Well Drilling	15.50011418	1.356347576	48.87566887	0.057433515	0.407431665	0.37483714
2033	003000	Construction	C.1 Well Drilling	13.85731435	1.220961549	43.79012087	0.051457388	0.366559347	0.337234603
2033	004000	Construction	C.1 Well Drilling	3.209123805	0.284080147	10.15598317	0.0119342	0.085256102	0.078435614
2033	005000	Construction	C.1 Well Drilling	7.09263977	0.631609161	22.48824842	0.02642573	0.189469756	0.174312174
2033	006000	Construction	C.1 Well Drilling	10.66030622	0.495207058	15.42477723	0.018125517	0.197851072	0.182022985
2033	007000	Construction	C.1 Well Drilling	7.877911033	0.366137947	11.39060473	0.013384994	0.146384793	0.13467401
2033	008000	Construction	C.1 Well Drilling	4.575313048	0.21275144	6.610618814	0.007768078	0.085118797	0.078309293
2033	009000	Construction	C.1 Well Drilling	8.02827823	0.373439542	11.59400839	0.013624012	0.149477425	0.137519231
2033	010000	Construction	C.1 Well Drilling	8.913267098	0.414757721	12.86528123	0.015117873	0.166100445	0.152812408
2033	011000	Construction	C.1 Well Drilling	13.5042808	0.62752023	19.12152139	0.022469528	0.255078044	0.2346718
2033	012000	Construction	C.1 Well Drilling	22.16130032	1.029994948	31.37124603	0.036864065	0.418792589	0.385289183
2033	013000	Construction	C.1 Well Drilling	23.99017044	1.115155741	33.95350506	0.039898452	0.453511007	0.417230126
2033	014000	Construction	C.1 Well Drilling	7.992993179	0.371589278	11.31072136	0.013291126	0.151143193	0.139051738
2033	015000	Construction	C.1 Well Drilling	1.960798011	0.091164879	2.77432788	0.003260087	0.037086094	0.034119207
2034	001000	Construction	C.1 Well Drilling	2.398882796	0.207597356	7.537868927	0.008857676	0.062419364	0.057425817
2034	002000	Construction	C.1 Well Drilling	15.50601797	1.356864191	48.89428497	0.05745539	0.40758685	0.37497991
2034	003000	Construction	C.1 Well Drilling	13.8607983	1.221268518	43.80113039	0.051470325	0.366651506	0.337319389
2034	004000	Construction	C.1 Well Drilling	3.204401033	0.283662075	10.14103691	0.011916637	0.085130633	0.078320182
2034	005000	Construction	C.1 Well Drilling	7.082201742	0.630679641	22.45515313	0.02638684	0.189190919	0.174055644
2034	006000	Construction	C.1 Well Drilling	10.64461776	0.494478276	15.40207705	0.018098842	0.1975599	0.181755107
2034	007000	Construction	C.1 Well Drilling	7.866317345	0.365599113	11.37384152	0.013365295	0.146169363	0.134475814
2034	008000	Construction	C.1 Well Drilling	4.568579695	0.21243834	6.600890163	0.007756646	0.08499353	0.078194048
2034	009000	Construction	C.1 Well Drilling	8.016463251	0.372889962	11.57694583	0.013603962	0.149257443	0.137316848
2034	010000	Construction	C.1 Well Drilling	8.900149707	0.414147335	12.84634778	0.015095624	0.165856	0.152587519
2034	011000	Construction	C.1 Well Drilling	13.48440696	0.626596727	19.09338081	0.022436461	0.254702653	0.234326441
2034	012000	Construction	C.1 Well Drilling	22.12868619	1.028479135	31.3250779	0.036809813	0.418176265	0.384722165
2034	013000	Construction	C.1 Well Drilling	23.95486482	1.113514599	33.90353669	0.039839734	0.452843588	0.416616101
2034	014000	Construction	C.1 Well Drilling	7.981230128	0.371042421	11.29407571	0.013271565	0.15092076	0.138847099
2034	015000	Construction	C.1 Well Drilling	1.957912362	0.091030714	2.770244984	0.00325529	0.037031516	0.034068994

Amount of Drilling Emissions Reduced in Changing from 0.5025 to 0.4 Load Factor in Lbs/Well Drilled

CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB
2035	001000	Construction	C.1 Well Drilling	2.395357619	0.20729229	7.526791971	0.00884466	0.062327638	0.057341429
2035	002000	Construction	C.1 Well Drilling	15.51190441	1.357379287	48.91284636	0.057477202	0.407741579	0.375122261
2035	003000	Construction	C.1 Well Drilling	13.864272	1.221574585	43.81210756	0.051483225	0.366743394	0.337403926
2035	004000	Construction	C.1 Well Drilling	3.199692141	0.283245232	10.12613458	0.011899125	0.085005533	0.07820509
2035	005000	Construction	C.1 Well Drilling	7.090804592	0.631445736	22.48242972	0.026418893	0.189420732	0.174267072
2035	006000	Construction	C.1 Well Drilling	10.62897541	0.493751636	15.37944358	0.018072246	0.197269584	0.181488017
2035	007000	Construction	C.1 Well Drilling	7.854757731	0.365061862	11.35712757	0.013345655	0.145954566	0.134278201
2035	008000	Construction	C.1 Well Drilling	4.561866132	0.21212616	6.591190104	0.007745247	0.084868631	0.078079141
2035	009000	Construction	C.1 Well Drilling	8.004682997	0.372341998	11.55993342	0.013583971	0.149038109	0.13711506
2035	010000	Construction	C.1 Well Drilling	8.887070868	0.413538742	12.82746997	0.015073441	0.165612273	0.15236329
2035	011000	Construction	C.1 Well Drilling	13.46459152	0.625675938	19.06532294	0.02240349	0.254328365	0.233982096
2035	012000	Construction	C.1 Well Drilling	22.09616792	1.026967777	31.27904546	0.036755721	0.417561751	0.384156813
2035	013000	Construction	C.1 Well Drilling	23.91966296	1.111878281	33.85371518	0.03978119	0.452178131	0.41600388
2035	014000	Construction	C.1 Well Drilling	7.969501649	0.370497171	11.27747897	0.013252063	0.150698981	0.138643062
2035	015000	Construction	C.1 Well Drilling	1.955035195	0.090896944	2.766174088	0.003250506	0.036977097	0.03401893

Wells Drilled Each Year

Amount of Drilling Emissions Reduced in Changing from 0.5025 to 0.4 Load Factor in tons/year

	CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB
305	2012	001000	Construction	C.1 Well Drilling	1.685800149	0.08623314	1.265490528	0.001487066	0.058949508	0.054233549
1414	2012	002000	Construction	C.1 Well Drilling	48.31986127	2.470406639	36.2657594	0.042615683	1.690015613	1.554814398
930	2012	003000	Construction	C.1 Well Drilling	26.13082797	1.335537073	19.60983178	0.023043342	0.914063117	0.840938076
174	2012	004000	Construction	C.1 Well Drilling	1.097744347	0.056092991	0.823735369	0.000967964	0.038402935	0.0353307
300	2012	005000	Construction	C.1 Well Drilling	4.35138373	0.222286531	3.264904352	0.003836559	0.152244859	0.140065269
69	2012	006000	Construction	C.1 Well Drilling	0.630797396	0.027846403	0.484273777	0.000569066	0.019369633	0.017820062
44	2012	007000	Construction	C.1 Well Drilling	0.307756215	0.01358104	0.236308515	0.000277684	0.00944799	0.00869215
23	2012	008000	Construction	C.1 Well Drilling	0.105098234	0.004636257	0.080712296	9.48443E-05	0.00322573	0.002967672
33.00	2012	009000	Construction	C.1 Well Drilling	0.259597732	0.011449052	0.199385309	0.000234296	0.007966476	0.007329158
21	2012	010000	Construction	C.1 Well Drilling	0.134311948	0.005922026	0.10317137	0.000121236	0.004121036	0.003791353
25	2012	011000	Construction	C.1 Well Drilling	0.28983358	0.012660769	0.224113359	0.000263354	0.008791813	0.008088468
27	2012	012000	Construction	C.1 Well Drilling	0.42255125	0.018455688	0.326757278	0.000383969	0.012816425	0.011791111
20	2012	013000	Construction	C.1 Well Drilling	0.284834291	0.012439358	0.220271416	0.000258839	0.008638697	0.007947602
6	2012	014000	Construction	C.1 Well Drilling	0.031595532	0.00137973	0.024434759	2.87131E-05	0.000958199	0.000881543
1	2012	015000	Construction	C.1 Well Drilling	0.001076335	4.69987E-05	0.000832421	9.7817E-07	3.26405E-05	3.00293E-05
323	2015	001000	Construction	C.1 Well Drilling	1.459184372	0.076516154	1.21385664	0.001426391	0.050699167	0.046643236
1575	2015	002000	Construction	C.1 Well Drilling	46.25993067	2.425760673	38.4824051	0.045220451	1.6072952	1.478711617
1128	2015	003000	Construction	C.1 Well Drilling	29.66006329	1.555303054	24.67341731	0.028993517	1.030534954	0.948092167
218	2015	004000	Construction	C.1 Well Drilling	1.329376837	0.069709353	1.105873212	0.001299501	0.046189021	0.0424939
363	2015	005000	Construction	C.1 Well Drilling	4.914587899	0.257709284	4.088314876	0.004804141	0.170756702	0.157096165
89	2015	006000	Construction	C.1 Well Drilling	0.894088754	0.042669015	0.689089954	0.000809743	0.027745006	0.025525405
55	2015	007000	Construction	C.1 Well Drilling	0.409738944	0.019554163	0.315793023	0.000371085	0.012714856	0.011697667
25	2015	008000	Construction	C.1 Well Drilling	0.105821008	0.005050145	0.081558115	9.58382E-05	0.003283795	0.003021092
37.00	2015	009000	Construction	C.1 Well Drilling	0.278148404	0.013274206	0.214373875	0.000251909	0.00863139	0.007940879
33.00	2015	010000	Construction	C.1 Well Drilling	0.282719872	0.013492372	0.217897186	0.000256049	0.00877325	0.00807139
31	2015	011000	Construction	C.1 Well Drilling	0.381707634	0.018149487	0.29472315	0.000346327	0.011761046	0.010820162
41	2015	012000	Construction	C.1 Well Drilling	0.834613076	0.039684298	0.644419374	0.000757251	0.025715814	0.023658549
36	2015	013000	Construction	C.1 Well Drilling	0.790538242	0.037588621	0.610388423	0.000717262	0.024357795	0.022409171
10	2015	014000	Construction	C.1 Well Drilling	0.075183977	0.003574858	0.058050866	6.8215E-05	0.002316543	0.00213122
2	2015	015000	Construction	C.1 Well Drilling	0.003688271	0.00017537	0.002847778	3.3464E-06	0.000113642	0.00010455
323	2016	001000	Construction	C.1 Well Drilling	1.386435063	0.072922391	1.212633611	0.001424954	0.047445911	0.043650239
1577	2016	002000	Construction	C.1 Well Drilling	44.06160921	2.317985994	38.54132851	0.045289691	1.507663522	1.387050471
1130	2016	003000	Construction	C.1 Well Drilling	28.27753179	1.487809133	24.73604116	0.029067106	0.967498891	0.890098988
218	2016	004000	Construction	C.1 Well Drilling	1.262884604	0.066451845	1.104758982	0.001298192	0.04320643	0.039749916
363	2016	005000	Construction	C.1 Well Drilling	4.668564794	0.245682823	4.084195667	0.0047993	0.159711708	0.14693477
89	2016	006000	Construction	C.1 Well Drilling	0.879121218	0.041764968	0.688395657	0.000808928	0.026932465	0.024777868
55	2016	007000	Construction	C.1 Well Drilling	0.40290064	0.019141578	0.315474843	0.000370712	0.012343792	0.011356289
25	2016	008000	Construction	C.1 Well Drilling	0.104060348	0.004944035	0.081475941	9.57416E-05	0.003188302	0.002933238
37	2016	009000	Construction	C.1 Well Drilling	0.273530086	0.012996083	0.214157881	0.000251655	0.008380987	0.007710508
33	2016	010000	Construction	C.1 Well Drilling	0.278036221	0.01321055	0.217677642	0.000255791	0.008519396	0.007837844
31	2016	011000	Construction	C.1 Well Drilling	0.37622769	0.017816774	0.294426199	0.000345978	0.011459754	0.010542973
41	2016	012000	Construction	C.1 Well Drilling	0.822647362	0.038958185	0.643770085	0.000756488	0.025058122	0.023053472
36	2016	013000	Construction	C.1 Well Drilling	0.779215936	0.036901824	0.609773422	0.000716539	0.023735606	0.021836757
10	2016	014000	Construction	C.1 Well Drilling	0.074108076	0.003509617	0.057992376	6.81463E-05	0.002257431	0.002076836
2	2016	015000	Construction	C.1 Well Drilling	0.003635526	0.000172173	0.002844909	3.34303E-06	0.000110744	0.000101885

Wells Drilled Each Year

Amount of Drilling Emissions Reduced in Changing from 0.5025 to 0.4 Load Factor in tons/year

	CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB
323	2017	001000	Construction	C.1 Well Drilling	1.304187795	0.068827106	1.210803681	0.001422804	0.044047152	0.040523381
1581	2017	002000	Construction	C.1 Well Drilling	41.67098409	2.200164504	38.67863729	0.045451042	1.407704764	1.295088412
1131	2017	003000	Construction	C.1 Well Drilling	26.66027164	1.408031585	24.74244701	0.029074633	0.900754185	0.828693859
219	2017	004000	Construction	C.1 Well Drilling	1.199634884	0.063369971	1.113235161	0.001308152	0.040535462	0.037292625
363	2017	005000	Construction	C.1 Well Drilling	4.395051409	0.232225199	4.078032394	0.004792058	0.14852769	0.136645474
89	2017	006000	Construction	C.1 Well Drilling	0.869624906	0.041149249	0.68735683	0.000807707	0.026309311	0.024204566
55	2017	007000	Construction	C.1 Well Drilling	0.398593953	0.018862775	0.314998775	0.000370152	0.012061246	0.011096347
25	2017	008000	Construction	C.1 Well Drilling	0.102959809	0.004872905	0.081352989	9.55972E-05	0.003116119	0.00286683
37	2017	009000	Construction	C.1 Well Drilling	0.270657952	0.012810659	0.213834705	0.000251275	0.008192645	0.007537233
33	2017	010000	Construction	C.1 Well Drilling	0.275139708	0.013023786	0.217349155	0.000255405	0.008329502	0.007663142
31	2017	011000	Construction	C.1 Well Drilling	0.37289669	0.017602025	0.293981894	0.000345455	0.011241042	0.010341758
41	2017	012000	Construction	C.1 Well Drilling	0.815397567	0.0384912	0.642798601	0.000755347	0.024582277	0.022615695
36	2017	013000	Construction	C.1 Well Drilling	0.772372646	0.036461313	0.608853241	0.000715458	0.023286567	0.021423642
10	2017	014000	Construction	C.1 Well Drilling	0.073459105	0.003467865	0.057904862	6.80435E-05	0.002214857	0.002037668
2	2017	015000	Construction	C.1 Well Drilling	0.003603762	0.00017013	0.002840616	3.33798E-06	0.000108661	9.9968E-05
325	2018	001000	Construction	C.1 Well Drilling	1.133464057	0.060201504	1.223997498	0.001438307	0.036826385	0.033880275
1582	2018	002000	Construction	C.1 Well Drilling	35.80672613	1.903973505	38.66922813	0.045439985	1.163518599	1.070437135
1133	2018	003000	Construction	C.1 Well Drilling	22.95641919	1.221545328	24.79261742	0.029133588	0.74601672	0.686335389
219	2018	004000	Construction	C.1 Well Drilling	1.029205352	0.054792165	1.11155776	0.001306181	0.033448052	0.030772208
364	2018	005000	Construction	C.1 Well Drilling	3.790882857	0.201941801	4.094353239	0.004811236	0.123208392	0.11335172
89	2018	006000	Construction	C.1 Well Drilling	0.838338483	0.03906714	0.686321134	0.00080649	0.024510136	0.022549325
55	2018	007000	Construction	C.1 Well Drilling	0.384312868	0.017913241	0.314524141	0.000369594	0.011240196	0.01034098
25	2018	008000	Construction	C.1 Well Drilling	0.099286213	0.00462888	0.081230408	9.54531E-05	0.002904973	0.002672575
37	2018	009000	Construction	C.1 Well Drilling	0.261027813	0.012171369	0.213512503	0.000250897	0.007639242	0.007028103
33	2018	010000	Construction	C.1 Well Drilling	0.26537991	0.012376346	0.217021657	0.00025502	0.00776877	0.007147269
31	2018	011000	Construction	C.1 Well Drilling	0.361709187	0.016854411	0.293538928	0.000344935	0.010588365	0.009741296
41	2018	012000	Construction	C.1 Well Drilling	0.790979582	0.036860233	0.641830044	0.000754209	0.02315807	0.021305425
36	2018	013000	Construction	C.1 Well Drilling	0.749275026	0.034919094	0.607935833	0.00071438	0.02193961	0.020184441
10	2018	014000	Construction	C.1 Well Drilling	0.071264837	0.003321398	0.057817613	6.79409E-05	0.002086915	0.001919962
2	2018	015000	Construction	C.1 Well Drilling	0.003496213	0.000162953	0.002836336	3.33295E-06	0.000102391	9.41995E-05
325	2019	001000	Construction	C.1 Well Drilling	1.042961651	0.05612155	1.222155977	0.001436144	0.033215331	0.030558105
1586	2019	002000	Construction	C.1 Well Drilling	33.12480201	1.785623199	38.80654843	0.04560135	1.055641053	0.97118979
1134	2019	003000	Construction	C.1 Well Drilling	21.17136096	1.142531837	24.79903458	0.029141129	0.67498886	0.620989758
219	2019	004000	Construction	C.1 Well Drilling	0.947625489	0.051178329	1.109885406	0.001304216	0.030221213	0.027803516
365	2019	005000	Construction	C.1 Well Drilling	3.510181703	0.189758134	4.110686685	0.004830429	0.111987289	0.103028305
89	2019	006000	Construction	C.1 Well Drilling	0.710843894	0.029676635	0.685288555	0.000805276	0.01864929	0.017157347
55	2019	007000	Construction	C.1 Well Drilling	0.325834953	0.013601893	0.314050935	0.000369038	0.008548643	0.007864752
25	2019	008000	Construction	C.1 Well Drilling	0.084170415	0.003513358	0.081108196	9.53095E-05	0.002208365	0.002031696
37	2019	009000	Construction	C.1 Well Drilling	0.221273339	0.009235623	0.213191271	0.000250519	0.005805621	0.005341171
33	2019	010000	Construction	C.1 Well Drilling	0.224946692	0.009388337	0.216695145	0.000254636	0.005902124	0.005429954
31	2019	011000	Construction	C.1 Well Drilling	0.306169903	0.01268016	0.293097295	0.000344416	0.007983054	0.00734441
41	2019	012000	Construction	C.1 Well Drilling	0.669503909	0.02772694	0.640864403	0.000753074	0.017456946	0.016060391
36	2019	013000	Construction	C.1 Well Drilling	0.634187745	0.026263747	0.607021185	0.000713305	0.016536341	0.015213434
10	2019	014000	Construction	C.1 Well Drilling	0.060317396	0.002497889	0.057730625	6.78387E-05	0.001572786	0.001446963
2	2019	015000	Construction	C.1 Well Drilling	0.002959087	0.000122541	0.002832068	3.32794E-06	7.71594E-05	7.09867E-05

Wells Drilled Each Year

Amount of Drilling Emissions Reduced in Changing from 0.5025 to 0.4 Load Factor in tons/year

	CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB
326	2020	001000	Construction	C.1 Well Drilling	0.87119234	0.050534537	1.227841204	0.001442824	0.028147024	0.025895263
1588	2020	002000	Construction	C.1 Well Drilling	27.52571637	1.602001262	38.84603851	0.045647754	0.890578031	0.819331807
1136	2020	003000	Construction	C.1 Well Drilling	17.59325338	1.026053405	24.84920031	0.029200078	0.56971754	0.524140142
220	2020	004000	Construction	C.1 Well Drilling	0.791357887	0.046217809	1.118361896	0.001314177	0.025641569	0.023590244
365	2020	005000	Construction	C.1 Well Drilling	2.902304615	0.169808794	4.104511392	0.004823173	0.094111575	0.086582649
89	2020	006000	Construction	C.1 Well Drilling	0.697269986	0.028884651	0.684259078	0.000804067	0.017878627	0.016448337
55	2020	007000	Construction	C.1 Well Drilling	0.319650915	0.013241772	0.313579151	0.000368484	0.008198033	0.00754219
25	2020	008000	Construction	C.1 Well Drilling	0.082582772	0.003421086	0.080986351	9.51663E-05	0.002118483	0.001949004
37	2020	009000	Construction	C.1 Well Drilling	0.217116902	0.008994379	0.212871004	0.000250143	0.005570543	0.0051249
33	2020	010000	Construction	C.1 Well Drilling	0.220740385	0.009144562	0.216369614	0.000254254	0.00566449	0.00521133
31	2020	011000	Construction	C.1 Well Drilling	0.301389951	0.012402239	0.292656988	0.000343899	0.007710528	0.007093685
41	2020	012000	Construction	C.1 Well Drilling	0.659080103	0.027121458	0.639901662	0.000751943	0.016863116	0.015514067
36	2020	013000	Construction	C.1 Well Drilling	0.624333937	0.025691792	0.606109285	0.000712233	0.015975323	0.014697297
10	2020	014000	Construction	C.1 Well Drilling	0.059381787	0.002443616	0.057643899	6.77368E-05	0.001519544	0.001397981
2	2020	015000	Construction	C.1 Well Drilling	0.002913249	0.000119883	0.002827814	3.32294E-06	7.4552E-05	6.85879E-05
326	2021	001000	Construction	C.1 Well Drilling	0.833802688	0.04884293	1.225999442	0.00144066	0.025979108	0.02390078
1590	2021	002000	Construction	C.1 Well Drilling	26.43296386	1.554644606	38.88553316	0.045694164	0.82546912	0.759431607
1139	2021	003000	Construction	C.1 Well Drilling	16.95025586	0.999416106	24.94314846	0.029310476	0.530093458	0.487685986
220	2021	004000	Construction	C.1 Well Drilling	0.75869161	0.044809963	1.116684354	0.001312205	0.023750159	0.021850147
366	2021	005000	Construction	C.1 Well Drilling	2.79902203	0.16567549	4.120842125	0.004842363	0.087730713	0.080712255
89	2021	006000	Construction	C.1 Well Drilling	0.68855826	0.028721751	0.683232689	0.000802861	0.017258437	0.015877762
55	2021	007000	Construction	C.1 Well Drilling	0.315691095	0.013170259	0.313108782	0.000367931	0.00791612	0.007282831
25	2021	008000	Construction	C.1 Well Drilling	0.081568527	0.003403432	0.080864871	9.50236E-05	0.002046274	0.001882572
37	2021	009000	Construction	C.1 Well Drilling	0.214465809	0.008949414	0.212551697	0.000249768	0.005381803	0.004951258
33	2021	010000	Construction	C.1 Well Drilling	0.218062143	0.00910045	0.21604506	0.000253873	0.005473821	0.005035915
31	2021	011000	Construction	C.1 Well Drilling	0.298467904	0.012395027	0.292218003	0.000343383	0.007493789	0.006894286
41	2021	012000	Construction	C.1 Well Drilling	0.652715476	0.027108125	0.638941809	0.000750815	0.016391052	0.015079768
36	2021	013000	Construction	C.1 Well Drilling	0.618322704	0.025680884	0.605200121	0.000711165	0.015529488	0.014287129
10	2021	014000	Construction	C.1 Well Drilling	0.058811448	0.002442714	0.057557433	6.76352E-05	0.001477245	0.001359066
2	2021	015000	Construction	C.1 Well Drilling	0.002885323	0.000119844	0.002823572	3.31795E-06	7.2481E-05	6.66825E-05
326	2022	001000	Construction	C.1 Well Drilling	0.626931099	0.040756456	1.224163197	0.001438502	0.019506492	0.017945973
1595	2022	002000	Construction	C.1 Well Drilling	19.94322458	1.304817261	39.07187299	0.045913131	0.62252005	0.572718459
1140	2022	003000	Construction	C.1 Well Drilling	12.7085855	0.834783792	24.9495417	0.029317988	0.397484128	0.365685401
220	2022	004000	Construction	C.1 Well Drilling	0.567158969	0.03735547	1.115011836	0.00131024	0.017762939	0.016341904
366	2022	005000	Construction	C.1 Well Drilling	2.089225006	0.138079304	4.11467012	0.00483511	0.065545408	0.060301775
89	2022	006000	Construction	C.1 Well Drilling	0.677299161	0.028379797	0.682209375	0.000801658	0.016477648	0.015159436
55	2022	007000	Construction	C.1 Well Drilling	0.310576686	0.013017489	0.312639822	0.00036738	0.007561293	0.006956389
25	2022	008000	Construction	C.1 Well Drilling	0.080259414	0.003365	0.080743756	9.48812E-05	0.001955413	0.00179898
37	2022	009000	Construction	C.1 Well Drilling	0.211045494	0.008850197	0.212233347	0.000249393	0.005144345	0.004732798
33	2022	010000	Construction	C.1 Well Drilling	0.214608501	0.009001601	0.215721477	0.000253492	0.005233984	0.004815265
31	2022	011000	Construction	C.1 Well Drilling	0.294701574	0.012327165	0.291780332	0.000342868	0.007223183	0.006645329
41	2022	012000	Construction	C.1 Well Drilling	0.644514345	0.026962798	0.637984832	0.00074969	0.015801753	0.014537612
36	2022	013000	Construction	C.1 Well Drilling	0.610578687	0.02554539	0.604293681	0.0007101	0.014972995	0.013775156
10	2022	014000	Construction	C.1 Well Drilling	0.058076842	0.002429997	0.057471226	6.75339E-05	0.001424453	0.001310497
2	2022	015000	Construction	C.1 Well Drilling	0.00284936	0.000119227	0.002819343	3.31298E-06	6.98963E-05	6.43046E-05

Wells Drilled Each Year

Amount of Drilling Emissions Reduced in Changing from 0.5025 to 0.4 Load Factor in tons/year

	CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB
327	2023	001000	Construction	C.1 Well Drilling	0.578252751	0.03920746	1.229842918	0.001445176	0.017263349	0.015882281
1598	2023	002000	Construction	C.1 Well Drilling	18.3511187	1.253657509	39.16033752	0.046017085	0.550044992	0.506041404
1141	2023	003000	Construction	C.1 Well Drilling	11.67057296	0.801001317	24.95595416	0.029325524	0.350670669	0.322617019
221	2023	004000	Construction	C.1 Well Drilling	0.524657963	0.036123978	1.123488636	0.001320201	0.015791122	0.014527832
366	2023	005000	Construction	C.1 Well Drilling	1.915208654	0.132401003	4.108516575	0.004827879	0.057767307	0.053145922
89	2023	006000	Construction	C.1 Well Drilling	0.669488393	0.028257863	0.681189122	0.000800459	0.015917528	0.014644125
55	2023	007000	Construction	C.1 Well Drilling	0.307021393	0.012963882	0.312172265	0.000366831	0.007306194	0.006721699
25	2023	008000	Construction	C.1 Well Drilling	0.079347478	0.003351746	0.080623002	9.47394E-05	0.001889944	0.001738748
37	2023	009000	Construction	C.1 Well Drilling	0.20865951	0.008816398	0.211915949	0.00024902	0.004972992	0.004575152
33	2023	010000	Construction	C.1 Well Drilling	0.212195508	0.0089684	0.215398863	0.000253113	0.005060624	0.004655774
31	2023	011000	Construction	C.1 Well Drilling	0.292032622	0.012328089	0.291343971	0.000342356	0.007024172	0.006462238
41	2023	012000	Construction	C.1 Well Drilling	0.638696926	0.026966601	0.637030717	0.000748569	0.015367899	0.014138467
36	2023	013000	Construction	C.1 Well Drilling	0.605081398	0.02555025	0.603389952	0.000709038	0.014562964	0.013397927
10	2023	014000	Construction	C.1 Well Drilling	0.057555039	0.002430558	0.057385277	6.74329E-05	0.001385529	0.001274686
2	2023	015000	Construction	C.1 Well Drilling	0.002823801	0.000119259	0.002815127	3.30803E-06	6.79896E-05	6.25505E-05
327	2024	001000	Construction	C.1 Well Drilling	0.513517962	0.037398684	1.228006418	0.001443018	0.015232222	0.014013645
1599	2024	002000	Construction	C.1 Well Drilling	16.3018065	1.197930218	39.15081397	0.046005894	0.486057769	0.447173157
1142	2024	003000	Construction	C.1 Well Drilling	10.36643873	0.766020775	24.96238575	0.029333081	0.310080499	0.285274062
221	2024	004000	Construction	C.1 Well Drilling	0.465029174	0.034493338	1.121810952	0.001318229	0.013940347	0.012825119
368	2024	005000	Construction	C.1 Well Drilling	1.715274079	0.127844801	4.147338677	0.004873499	0.051562721	0.047437703
91	2024	006000	Construction	C.1 Well Drilling	0.697328635	0.029788988	0.711084918	0.000835589	0.016396998	0.015085238
55	2024	007000	Construction	C.1 Well Drilling	0.305909549	0.013074035	0.311706105	0.000366283	0.007200759	0.006624698
25	2024	008000	Construction	C.1 Well Drilling	0.0790661	0.003380701	0.08050261	9.45979E-05	0.001863105	0.001714057
37	2024	009000	Construction	C.1 Well Drilling	0.207930055	0.008893398	0.211599499	0.000248649	0.004903138	0.004510887
33	2024	010000	Construction	C.1 Well Drilling	0.211465298	0.009047655	0.215077212	0.000252735	0.004990389	0.004591158
31	2024	011000	Construction	C.1 Well Drilling	0.291347441	0.012461592	0.290908913	0.000341844	0.0069488	0.006392896
41	2024	012000	Construction	C.1 Well Drilling	0.637215277	0.02726001	0.636079452	0.000747451	0.015204278	0.013987936
36	2024	013000	Construction	C.1 Well Drilling	0.603689649	0.025829224	0.602488921	0.000707979	0.014408819	0.013256113
10	2024	014000	Construction	C.1 Well Drilling	0.057423593	0.002457173	0.057299585	6.73322E-05	0.001370934	0.00126126
2	2024	015000	Construction	C.1 Well Drilling	0.002817389	0.000120567	0.002810923	3.30309E-06	6.72763E-05	6.18942E-05
328	2025	001000	Construction	C.1 Well Drilling	0.479116646	0.036272571	1.233686405	0.001449693	0.013674242	0.012580303
1601	2025	002000	Construction	C.1 Well Drilling	15.16131682	1.15896845	39.19029138	0.046052284	0.435503129	0.400662887
1144	2025	003000	Construction	C.1 Well Drilling	9.653346714	0.742359414	25.01254549	0.029392024	0.278399882	0.256127894
221	2025	004000	Construction	C.1 Well Drilling	0.431604227	0.033326714	1.120138272	0.001316264	0.012481348	0.01148284
368	2025	005000	Construction	C.1 Well Drilling	1.592345147	0.123594467	4.141154773	0.004866232	0.046208844	0.042512136
91	2025	006000	Construction	C.1 Well Drilling	0.693085204	0.029903776	0.710024652	0.000834344	0.016048071	0.014764225
56	2025	007000	Construction	C.1 Well Drilling	0.315232272	0.013608143	0.32266209	0.000379157	0.007308056	0.006723411
25	2025	008000	Construction	C.1 Well Drilling	0.078598668	0.003394797	0.080382576	9.44568E-05	0.001824421	0.001678467
37	2025	009000	Construction	C.1 Well Drilling	0.206712839	0.008931421	0.211283993	0.000248278	0.004802181	0.004418007
33	2025	010000	Construction	C.1 Well Drilling	0.210240725	0.00908738	0.21475652	0.000252358	0.004888577	0.004497491
31	2025	011000	Construction	C.1 Well Drilling	0.290074958	0.012547284	0.290475152	0.000341335	0.006835777	0.006288915
41	2025	012000	Construction	C.1 Well Drilling	0.634451616	0.027449018	0.635131023	0.000746337	0.014958401	0.013761729
36	2025	013000	Construction	C.1 Well Drilling	0.601085097	0.026009411	0.601590578	0.000706924	0.01417681	0.013042665
10	2025	014000	Construction	C.1 Well Drilling	0.057176922	0.002474401	0.057214148	6.72318E-05	0.001348939	0.001241024
2	2025	015000	Construction	C.1 Well Drilling	0.002805328	0.000121416	0.002806732	3.29816E-06	6.61999E-05	6.09039E-05

Wells Drilled Each Year

Amount of Drilling Emissions Reduced in Changing from 0.5025 to 0.4 Load Factor in tons/year

	CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB
328	2026	001000	Construction	C.1 Well Drilling	0.458884527	0.035883597	1.231849652	0.001447534	0.012601375	0.011593265
1603	2026	002000	Construction	C.1 Well Drilling	14.56616341	1.150525801	39.22977337	0.046098679	0.402988403	0.370749339
1146	2026	003000	Construction	C.1 Well Drilling	9.287126282	0.7381296	25.06270855	0.02945097	0.258131937	0.237481384
222	2026	004000	Construction	C.1 Well Drilling	0.417641777	0.03333436	1.128615378	0.001326225	0.011644971	0.010713373
368	2026	005000	Construction	C.1 Well Drilling	1.527478078	0.122575057	4.134989282	0.004858987	0.042762635	0.039341623
91	2026	006000	Construction	C.1 Well Drilling	0.493964965	0.021856924	0.708967543	0.000833101	0.009517682	0.008756267
56	2026	007000	Construction	C.1 Well Drilling	0.224602981	0.009942156	0.3221817	0.000378593	0.004331095	0.003984607
25	2026	008000	Construction	C.1 Well Drilling	0.055985438	0.002479211	0.0802629	9.43162E-05	0.001080456	0.00099402
37	2026	009000	Construction	C.1 Well Drilling	0.147212233	0.006520767	0.210969426	0.000247908	0.002842568	0.002615162
33	2026	010000	Construction	C.1 Well Drilling	0.149693331	0.006632607	0.214436784	0.000251983	0.002892185	0.00266081
31	2026	011000	Construction	C.1 Well Drilling	0.205650594	0.009081083	0.290042683	0.000340827	0.00399973	0.003679751
41	2026	012000	Construction	C.1 Well Drilling	0.449753263	0.019863166	0.634185419	0.000745225	0.008750127	0.008050117
37	2026	013000	Construction	C.1 Well Drilling	0.45006736	0.019879307	0.634530348	0.000745631	0.008758334	0.008057667
10	2026	014000	Construction	C.1 Well Drilling	0.040526292	0.0017902	0.057128966	6.71317E-05	0.0007888	0.000725696
2	2026	015000	Construction	C.1 Well Drilling	0.001988284	8.78366E-05	0.002802553	3.29325E-06	3.87059E-05	3.56094E-05
329	2027	001000	Construction	C.1 Well Drilling	0.440109793	0.035630164	1.237529904	0.001454209	0.01161572	0.010686463
1604	2027	002000	Construction	C.1 Well Drilling	13.91025095	1.137801723	39.22034151	0.046087596	0.370281071	0.340658593
1148	2027	003000	Construction	C.1 Well Drilling	8.891794506	0.731967599	25.1128749	0.02950992	0.237956647	0.218920117
222	2027	004000	Construction	C.1 Well Drilling	0.398562498	0.03295212	1.126937555	0.001324254	0.010704917	0.009848524
369	2027	005000	Construction	C.1 Well Drilling	1.466056287	0.12188112	4.15131197	0.004878168	0.03955979	0.036395006
91	2027	006000	Construction	C.1 Well Drilling	0.489917468	0.022052754	0.707913578	0.000831863	0.009234718	0.008495941
56	2027	007000	Construction	C.1 Well Drilling	0.222780056	0.010032537	0.321702738	0.00037803	0.004203479	0.003867201
25	2027	008000	Construction	C.1 Well Drilling	0.055535409	0.002502075	0.080143579	9.4176E-05	0.001048909	0.000964996
38	2027	009000	Construction	C.1 Well Drilling	0.154037093	0.00694204	0.22219647	0.000261101	0.002911286	0.002678383
33	2027	010000	Construction	C.1 Well Drilling	0.148506314	0.006694995	0.214117998	0.000251608	0.002808817	0.002584112
31	2027	011000	Construction	C.1 Well Drilling	0.204391197	0.009191551	0.289611499	0.00034032	0.003905704	0.003593248
41	2027	012000	Construction	C.1 Well Drilling	0.447011483	0.020105756	0.633242626	0.000744118	0.008545293	0.00786167
37	2027	013000	Construction	C.1 Well Drilling	0.447332977	0.020122812	0.633587042	0.000744522	0.008553953	0.007869636
10	2027	014000	Construction	C.1 Well Drilling	0.040280767	0.001812182	0.057044037	6.70319E-05	0.000770441	0.000708805
2	2027	015000	Construction	C.1 Well Drilling	0.001976265	8.89173E-05	0.002798387	3.28836E-06	3.78069E-05	3.47823E-05
329	2028	001000	Construction	C.1 Well Drilling	0.407743479	0.034981954	1.235692897	0.001452051	0.010639707	0.009788531
1608	2028	002000	Construction	C.1 Well Drilling	12.94307932	1.122829758	39.35768815	0.046248991	0.340865222	0.313596011
1150	2028	003000	Construction	C.1 Well Drilling	8.257771606	0.721312173	25.16304453	0.029568874	0.218725911	0.20122784
222	2028	004000	Construction	C.1 Well Drilling	0.368754221	0.032361373	1.125264714	0.001322288	0.009805632	0.009021182
369	2028	005000	Construction	C.1 Well Drilling	1.355929503	0.119704524	4.145149706	0.004870927	0.036236697	0.033337761
91	2028	006000	Construction	C.1 Well Drilling	0.48866021	0.022384274	0.706862741	0.000830628	0.009123188	0.008393333
56	2028	007000	Construction	C.1 Well Drilling	0.222218741	0.010184092	0.321225198	0.000377469	0.004153327	0.003821061
25	2028	008000	Construction	C.1 Well Drilling	0.05539808	0.002540056	0.080024613	9.40362E-05	0.001036548	0.000953624
38	2028	009000	Construction	C.1 Well Drilling	0.153661002	0.00704776	0.221866639	0.000260713	0.002877264	0.002647083
33	2028	010000	Construction	C.1 Well Drilling	0.148148778	0.006797312	0.213800158	0.000251235	0.002776293	0.002554189
31	2028	011000	Construction	C.1 Well Drilling	0.20408502	0.009343194	0.289181596	0.000339815	0.003870966	0.003561288
41	2028	012000	Construction	C.1 Well Drilling	0.446349261	0.020437999	0.632302632	0.000743013	0.008469746	0.007792166
37	2028	013000	Construction	C.1 Well Drilling	0.446675792	0.020455737	0.632646537	0.000743417	0.00847867	0.007800376
10	2028	014000	Construction	C.1 Well Drilling	0.040222	0.001842194	0.05695936	6.69324E-05	0.000763685	0.000702591
2	2028	015000	Construction	C.1 Well Drilling	0.001973398	9.0391E-05	0.002794233	3.28348E-06	3.74764E-05	3.44782E-05

Wells Drilled Each Year

Amount of Drilling Emissions Reduced in Changing from 0.5025 to 0.4 Load Factor in tons/year

	CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB
330	2029	001000	Construction	C.1 Well Drilling	0.395059844	0.034188156	1.241373413	0.001458726	0.010279529	0.009457167
1610	2029	002000	Construction	C.1 Well Drilling	12.49416487	1.093310025	39.39717204	0.046295388	0.328418122	0.302144679
1152	2029	003000	Construction	C.1 Well Drilling	7.978682698	0.702998037	25.21321743	0.029627831	0.211055378	0.19417095
222	2029	004000	Construction	C.1 Well Drilling	0.355038137	0.031428917	1.123596831	0.001320328	0.009432222	0.008677644
370	2029	005000	Construction	C.1 Well Drilling	1.312499099	0.116879819	4.161469742	0.004890104	0.035061542	0.032256618
91	2029	006000	Construction	C.1 Well Drilling	0.487799864	0.022659943	0.70581502	0.000829397	0.009053373	0.008329103
56	2029	007000	Construction	C.1 Well Drilling	0.221834813	0.010310112	0.320749074	0.000376909	0.004122063	0.003792298
25	2029	008000	Construction	C.1 Well Drilling	0.055304196	0.002571638	0.079905999	9.38968E-05	0.001028875	0.000946565
38	2029	009000	Construction	C.1 Well Drilling	0.153403976	0.007135666	0.221537785	0.000260327	0.002856208	0.002627711
33	2029	010000	Construction	C.1 Well Drilling	0.147904526	0.006882386	0.21348326	0.000250862	0.002756229	0.002535731
31	2029	011000	Construction	C.1 Well Drilling	0.203927348	0.009476146	0.288752967	0.000339311	0.003851919	0.003543765
41	2029	012000	Construction	C.1 Well Drilling	0.44600966	0.020729275	0.631365424	0.000741912	0.008428456	0.007754179
37	2029	013000	Construction	C.1 Well Drilling	0.446339847	0.020747599	0.63170882	0.000742315	0.008437624	0.007762614
10	2029	014000	Construction	C.1 Well Drilling	0.04019204	0.001868503	0.056874934	6.68332E-05	0.00076001	0.000699209
2	2029	015000	Construction	C.1 Well Drilling	0.001971939	9.16829E-05	0.002790091	3.27861E-06	3.72968E-05	3.43131E-05
330	2030	001000	Construction	C.1 Well Drilling	0.394475148	0.034137557	1.239536156	0.001456567	0.010264315	0.00944317
1613	2030	002000	Construction	C.1 Well Drilling	12.52220977	1.095764113	39.48560449	0.046399305	0.329155302	0.302822885
1153	2030	003000	Construction	C.1 Well Drilling	7.980711472	0.703176792	25.2196285	0.029635365	0.211109044	0.194220323
223	2030	004000	Construction	C.1 Well Drilling	0.357713674	0.031665763	1.132064163	0.001330278	0.009503302	0.008743038
371	2030	005000	Construction	C.1 Well Drilling	1.317650237	0.117338535	4.177802177	0.004909296	0.035199147	0.032383215
91	2030	006000	Construction	C.1 Well Drilling	0.487077911	0.022626406	0.704770399	0.000828169	0.009039974	0.008316776
56	2030	007000	Construction	C.1 Well Drilling	0.221506493	0.010294853	0.320274359	0.000376351	0.004115962	0.003786685
25	2030	008000	Construction	C.1 Well Drilling	0.055222345	0.002567832	0.079787737	9.37578E-05	0.001027353	0.000945164
38	2030	009000	Construction	C.1 Well Drilling	0.153176935	0.007125105	0.221209905	0.000259942	0.002851981	0.002623822
33	2030	010000	Construction	C.1 Well Drilling	0.147685624	0.0068722	0.213167301	0.000250491	0.00275215	0.002531978
31	2030	011000	Construction	C.1 Well Drilling	0.203625532	0.009462121	0.288325607	0.000338809	0.003846218	0.00353852
41	2030	012000	Construction	C.1 Well Drilling	0.445349557	0.020698596	0.630430991	0.000740814	0.008415982	0.007742703
37	2030	013000	Construction	C.1 Well Drilling	0.445679255	0.020716892	0.630773878	0.000741217	0.008425136	0.007751125
10	2030	014000	Construction	C.1 Well Drilling	0.040132555	0.001865737	0.056790758	6.67343E-05	0.000758885	0.000698174
2	2030	015000	Construction	C.1 Well Drilling	0.00196902	9.15472E-05	0.002785962	3.27376E-06	3.72416E-05	3.42623E-05
330	2031	001000	Construction	C.1 Well Drilling	0.39389218	0.034087107	1.237704329	0.001454414	0.010249146	0.009429214
1616	2031	002000	Construction	C.1 Well Drilling	12.55025828	1.098218516	39.57404834	0.046503234	0.329892578	0.303501178
1155	2031	003000	Construction	C.1 Well Drilling	7.996587149	0.70457559	25.2697968	0.029694317	0.211528994	0.194606677
223	2031	004000	Construction	C.1 Well Drilling	0.357185033	0.031618966	1.130391162	0.001328312	0.009489258	0.008730117
371	2031	005000	Construction	C.1 Well Drilling	1.315702971	0.117165129	4.171628085	0.004902041	0.035147129	0.032335358
91	2031	006000	Construction	C.1 Well Drilling	0.486358091	0.022592968	0.703728867	0.000826945	0.009026614	0.008304485
56	2031	007000	Construction	C.1 Well Drilling	0.221179144	0.010279639	0.319801047	0.000375795	0.004109879	0.003781089
25	2031	008000	Construction	C.1 Well Drilling	0.055140736	0.002564037	0.079669824	9.36193E-05	0.001025834	0.000943768
38	2031	009000	Construction	C.1 Well Drilling	0.152950565	0.007114575	0.220882994	0.000259558	0.002847766	0.002619945
33	2031	010000	Construction	C.1 Well Drilling	0.14746737	0.006862044	0.212852275	0.000250121	0.002748083	0.002528236
32	2031	011000	Construction	C.1 Well Drilling	0.2166539	0.010067527	0.306773255	0.000360487	0.004092306	0.003764922
41	2031	012000	Construction	C.1 Well Drilling	0.444691405	0.020668007	0.62949932	0.000739719	0.008403544	0.007731261
37	2031	013000	Construction	C.1 Well Drilling	0.445020616	0.020686276	0.6298417	0.000740121	0.008412685	0.00773967
10	2031	014000	Construction	C.1 Well Drilling	0.040073245	0.00186298	0.056706831	6.66357E-05	0.000757763	0.000697142
2	2031	015000	Construction	C.1 Well Drilling	0.001966111	9.14119E-05	0.002781845	3.26892E-06	3.71866E-05	3.42116E-05

Wells Drilled Each Year

Amount of Drilling Emissions Reduced in Changing from 0.5025 to 0.4 Load Factor in tons/year

	CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB
332	2032	001000	Construction	C.1 Well Drilling	0.398092784	0.034450624	1.250903642	0.001469925	0.010358446	0.009529771
1617	2032	002000	Construction	C.1 Well Drilling	12.54725284	1.097955523	39.56457147	0.046492098	0.329813578	0.303428498
1157	2032	003000	Construction	C.1 Well Drilling	8.012463855	0.705974479	25.31996834	0.029753273	0.211948971	0.194993055
224	2032	004000	Construction	C.1 Well Drilling	0.359863851	0.031856102	1.138868873	0.001338274	0.009560426	0.008795591
371	2032	005000	Construction	C.1 Well Drilling	1.313761452	0.116992234	4.165472215	0.004894807	0.035095264	0.032287642
91	2032	006000	Construction	C.1 Well Drilling	0.485640396	0.022559629	0.702690408	0.000825725	0.009013294	0.00829223
56	2032	007000	Construction	C.1 Well Drilling	0.22085276	0.010264469	0.319329132	0.000375241	0.004103815	0.003775509
25	2032	008000	Construction	C.1 Well Drilling	0.055059367	0.002560253	0.079552259	9.34811E-05	0.001024321	0.000942375
38	2032	009000	Construction	C.1 Well Drilling	0.152724863	0.007104077	0.220557047	0.000259175	0.002843564	0.002616078
33	2032	010000	Construction	C.1 Well Drilling	0.147249759	0.006851918	0.21253818	0.000249752	0.002744028	0.002524505
32	2032	011000	Construction	C.1 Well Drilling	0.216334194	0.01005267	0.306320565	0.000359955	0.004086267	0.003759366
41	2032	012000	Construction	C.1 Well Drilling	0.444035195	0.020637508	0.628570398	0.000738627	0.008391143	0.007719852
37	2032	013000	Construction	C.1 Well Drilling	0.444363921	0.020655751	0.628912273	0.000739029	0.008400271	0.007728249
10	2032	014000	Construction	C.1 Well Drilling	0.040014111	0.001860231	0.056623151	6.65373E-05	0.000756645	0.000696114
2	2032	015000	Construction	C.1 Well Drilling	0.001963209	9.1277E-05	0.002777739	3.2641E-06	3.71317E-05	3.41612E-05
332	2033	001000	Construction	C.1 Well Drilling	0.397603846	0.034408312	1.249367282	0.001468119	0.010345724	0.009518066
1617	2033	002000	Construction	C.1 Well Drilling	12.53184231	1.096607015	39.51597829	0.046434997	0.329408501	0.303055828
1159	2033	003000	Construction	C.1 Well Drilling	8.030313667	0.707547218	25.37637505	0.029819556	0.212421142	0.195427452
224	2033	004000	Construction	C.1 Well Drilling	0.359421866	0.031816977	1.137470115	0.00133663	0.009548683	0.008784789
372	2033	005000	Construction	C.1 Well Drilling	1.319230997	0.117479304	4.182814206	0.004915186	0.035241375	0.032422064
91	2033	006000	Construction	C.1 Well Drilling	0.485043933	0.022531921	0.701827364	0.000824711	0.009002224	0.008282046
56	2033	007000	Construction	C.1 Well Drilling	0.220581509	0.010251863	0.318936932	0.00037478	0.004098774	0.003770872
26	2033	008000	Construction	C.1 Well Drilling	0.05947907	0.002765769	0.085938045	0.000100985	0.001106544	0.001018021
38	2033	009000	Construction	C.1 Well Drilling	0.152537286	0.007095351	0.220286159	0.000258856	0.002840071	0.002612865
33	2033	010000	Construction	C.1 Well Drilling	0.147068907	0.006843502	0.21227714	0.000249445	0.002740657	0.002521405
32	2033	011000	Construction	C.1 Well Drilling	0.216068493	0.010040324	0.305944342	0.000359512	0.004081249	0.003754749
42	2033	012000	Construction	C.1 Well Drilling	0.465387307	0.021629894	0.658796167	0.000774145	0.008794644	0.008091073
37	2033	013000	Construction	C.1 Well Drilling	0.443818153	0.020630381	0.628139844	0.000738121	0.008389954	0.007718757
10	2033	014000	Construction	C.1 Well Drilling	0.039964966	0.001857946	0.056553607	6.64556E-05	0.000755716	0.000695259
2	2033	015000	Construction	C.1 Well Drilling	0.001960798	9.11649E-05	0.002774328	3.26009E-06	3.70861E-05	3.41192E-05
333	2034	001000	Construction	C.1 Well Drilling	0.399413986	0.03456496	1.255055176	0.001474803	0.010392824	0.009561398
1620	2034	002000	Construction	C.1 Well Drilling	12.55987455	1.099059994	39.60437083	0.046538866	0.330145349	0.303733727
1161	2034	003000	Construction	C.1 Well Drilling	8.046193412	0.708946375	25.42655619	0.029878524	0.212841199	0.195813905
224	2034	004000	Construction	C.1 Well Drilling	0.358892916	0.031770152	1.135796134	0.001334663	0.009534631	0.00877186
372	2034	005000	Construction	C.1 Well Drilling	1.317289524	0.117306413	4.176658483	0.004907952	0.035189511	0.03237435
91	2034	006000	Construction	C.1 Well Drilling	0.484330108	0.022498762	0.700794506	0.000823497	0.008988975	0.008269857
56	2034	007000	Construction	C.1 Well Drilling	0.220256886	0.010236775	0.318467562	0.000374228	0.004092742	0.003765323
26	2034	008000	Construction	C.1 Well Drilling	0.059391536	0.002761698	0.085811572	0.000100836	0.001104916	0.001016523
38	2034	009000	Construction	C.1 Well Drilling	0.152312802	0.007084909	0.219961971	0.000258475	0.002835891	0.00260902
33	2034	010000	Construction	C.1 Well Drilling	0.14685247	0.006833431	0.211964738	0.000249078	0.002736624	0.002517694
32	2034	011000	Construction	C.1 Well Drilling	0.215750511	0.010025548	0.305494093	0.000358983	0.004075242	0.003749223
42	2034	012000	Construction	C.1 Well Drilling	0.46470241	0.021598062	0.657826636	0.000773006	0.008781702	0.008079165
37	2034	013000	Construction	C.1 Well Drilling	0.443164999	0.02060002	0.627215429	0.000737035	0.008377606	0.007707398
10	2034	014000	Construction	C.1 Well Drilling	0.039906151	0.001855212	0.056470379	6.63578E-05	0.000754604	0.000694235
2	2034	015000	Construction	C.1 Well Drilling	0.001957912	9.10307E-05	0.002770245	3.25529E-06	3.70315E-05	3.4069E-05

Wells Drilled Each Year

Amount of Drilling Emissions Reduced in Changing from 0.5025 to 0.4 Load Factor in tons/year

	CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB
333	2035	001000	Construction	C.1 Well Drilling	0.398827044	0.034514166	1.253210863	0.001472636	0.010377552	0.009547348
1623	2035	002000	Construction	C.1 Well Drilling	12.58791043	1.101513292	39.69277482	0.046642749	0.330882292	0.304411715
1163	2035	003000	Construction	C.1 Well Drilling	8.06207417	0.710345621	25.47674054	0.029937495	0.213261284	0.196200383
224	2035	004000	Construction	C.1 Well Drilling	0.35836552	0.031723466	1.134127072	0.001332702	0.00952062	0.00875897
373	2035	005000	Construction	C.1 Well Drilling	1.322435056	0.11776463	4.192973143	0.004927123	0.035326967	0.032500809
91	2035	006000	Construction	C.1 Well Drilling	0.483618381	0.022465699	0.699764683	0.000822287	0.008975766	0.008257705
56	2035	007000	Construction	C.1 Well Drilling	0.219933216	0.010221732	0.317999572	0.000373678	0.004086728	0.00375979
26	2035	008000	Construction	C.1 Well Drilling	0.05930426	0.00275764	0.085685471	0.000100688	0.001103292	0.001015029
38	2035	009000	Construction	C.1 Well Drilling	0.152088977	0.007074498	0.219638735	0.000258095	0.002831724	0.002605186
33	2035	010000	Construction	C.1 Well Drilling	0.146636669	0.006823389	0.211653255	0.000248712	0.002732603	0.002513994
32	2035	011000	Construction	C.1 Well Drilling	0.215433464	0.010010815	0.305045167	0.000358456	0.004069254	0.003743714
42	2035	012000	Construction	C.1 Well Drilling	0.464019526	0.021566323	0.656859955	0.00077187	0.008768797	0.008067293
37	2035	013000	Construction	C.1 Well Drilling	0.442513765	0.020569748	0.626293731	0.000735952	0.008365295	0.007696072
10	2035	014000	Construction	C.1 Well Drilling	0.039847508	0.001852486	0.056387395	6.62603E-05	0.000753495	0.000693215
2	2035	015000	Construction	C.1 Well Drilling	0.001955035	9.08969E-05	0.002766174	3.25051E-06	3.69771E-05	3.40189E-05

VERA Emissions (tons/year)	Wells Drilled Each Year	VERA Emissions (tons/year-well)	VERA Fee Reduction	Year
1.830982797	305			
52.48028352	1414			
28.38042816	930			
1.192240272	174			
4.72591512	300			
0.678013432	69			
0.330785245	44			
0.112960221	23			
0.27901326	33.00			
0.144355009	21			
0.311286162	25			
0.453823364	27			
0.305912347	20			
0.033933461	6			
0.001155974	1			
1.586399692	323	0.004911454	34.25248129	2015
50.29298654	1575	0.031932055	222.6941512	2015
32.2459013	1128	0.028586792	199.3642869	2015
1.445275212	218	0.006629703	46.23554736	2015
5.343053886	363	0.014719157	102.6513989	2015
0.964502775	89	0.01083711	75.57800395	2015
0.442007963	55	0.008036508	56.04660965	2015
0.114154949	25	0.004566198	31.84466457	2015
0.300054	37.00	0.008109568	56.55612431	2015
0.304985494	33.00	0.009241985	64.45360113	2015
0.411618167	31	0.013278005	92.6008095	2015
0.900013187	41	0.021951541	153.090048	2015
0.852484659	36	0.023680129	165.1452225	2015
0.081075378	10	0.008107538	56.54196894	2015
0.003977283	2	0.001988641	13.86878483	2015
1.506803365	323	0.004665026	32.5338906	2016
47.88725873	1577	0.030366049	211.7728233	2016
30.73283981	1130	0.027197203	189.6732963	2016
1.372542879	218	0.006296068	43.90877999	2016
5.073959325	363	0.013977849	97.48152158	2016
0.947818652	89	0.010649648	74.27064357	2016
0.43438601	55	0.007897927	55.08014609	2016
0.112192685	25	0.004487707	31.29727144	2016
0.294907157	37	0.007970464	55.58601379	2016
0.299766166	33	0.009083823	63.35058317	2016
0.405504218	31	0.013080781	91.22536831	2016
0.886663669	41	0.021625943	150.8193276	2016
0.839853366	36	0.02332926	162.6982604	2016
0.079875123	10	0.007987512	55.70491111	2016
0.003918443	2	0.001959221	13.66361031	2016

VERA Emissions (tons/year)	Wells Drilled Each Year	VERA Emissions (tons/year-well)	VERA Fee Reduction	Year
1.417062053	323	0.004387189	30.59625622	2017
45.27885336	1581	0.028639376	199.7310078	2017
28.96905741	1131	0.025613667	178.6297138	2017
1.303540316	219	0.005952239	41.510914	2017
4.775804297	363	0.013156486	91.75333105	2017
0.937083465	89	0.010529028	73.42943918	2017
0.429517975	55	0.007809418	54.46287923	2017
0.110948833	25	0.004437953	30.95028656	2017
0.291661256	37	0.007882737	54.97420538	2017
0.296492996	33	0.008984636	62.65885316	2017
0.401739758	31	0.012959347	90.37848609	2017
0.878471045	41	0.021426123	149.4257821	2017
0.832120527	36	0.023114459	161.2002376	2017
0.079141826	10	0.007914183	55.19350972	2017
0.003882553	2	0.001941276	13.5384621	2017
1.230491946	325	0.003786129	26.4044641	2018
38.87421823	1582	0.024572831	171.3709216	2018
24.92398124	1133	0.021998218	153.4155738	2018
1.117445568	219	0.005102491	35.58477349	2018
4.11603305	364	0.011307783	78.86047936	2018
0.901915759	89	0.010133885	70.67371351	2018
0.413466305	55	0.007517569	52.42752747	2018
0.106820066	25	0.004272803	29.79852562	2018
0.280838425	37	0.007590228	52.93424791	2018
0.285525026	33	0.008652274	60.34095548	2018
0.389151964	31	0.012553289	87.54663857	2018
0.850997885	41	0.020756046	144.7526646	2018
0.806133729	36	0.022392604	156.1660174	2018
0.07667315	10	0.007667315	53.47185494	2018
0.003761557	2	0.001880778	13.11654897	2018
1.132298532	325	0.003483995	24.29738449	2019
35.96606626	1586	0.022677217	158.1509118	2019
22.98888166	1134	0.020272382	141.379595	2019
1.029025031	219	0.004698744	32.76904369	2019
3.811927127	365	0.010443636	72.83391721	2019
0.759169818	89	0.008529998	59.48820577	2019
0.347985488	55	0.006327009	44.12455993	2019
0.089892138	25	0.003595686	25.07631079	2019
0.236314584	37	0.006386881	44.54210559	2019
0.240237153	33	0.007279914	50.77011837	2019
0.326833117	31	0.010543004	73.52690834	2019
0.714687796	41	0.01743141	121.5666509	2019
0.676987833	36	0.018805218	131.1475874	2019
0.064388071	10	0.006438807	44.9042409	2019
0.003158788	2	0.001579394	11.01469382	2019

VERA Emissions (tons/year)	Wells Drilled Each Year	VERA Emissions (tons/year-well)	VERA Fee Reduction	Year
0.949873902	326	0.002913724	20.32030856	2020
30.01829567	1588	0.018903209	131.8309786	2020
19.18902432	1136	0.016891747	117.8030419	2020
0.863217265	220	0.003923715	27.36398732	2020
3.166224985	365	0.008674589	60.49658368	2020
0.744033264	89	0.008359924	58.30211219	2020
0.34109072	55	0.006201649	43.25030332	2020
0.08812234	25	0.003524894	24.58260788	2020
0.231681825	37	0.006261671	43.66889313	2020
0.235549436	33	0.007137862	49.77944748	2020
0.321502717	31	0.010371055	72.32774029	2020
0.703064677	41	0.017147919	119.5895868	2020
0.666001052	36	0.018500029	129.0192039	2020
0.063344947	10	0.006334495	44.17676578	2020
0.003107685	2	0.001553842	10.8364972	2020
0.908624726	326	0.002787192	19.43787988	2021
28.81307759	1590	0.018121432	126.3788699	2021
18.47976542	1139	0.016224553	113.1500299	2021
0.827251732	220	0.003760235	26.2238799	2021
3.052428233	366	0.008339968	58.16293578	2021
0.734538448	89	0.008253241	57.55810269	2021
0.336777474	55	0.006123227	42.70338375	2021
0.087018234	25	0.003480729	24.27460645	2021
0.228797025	37	0.006183703	43.12514745	2021
0.232636415	33	0.007049588	49.16382895	2021
0.31835672	31	0.010269572	71.61999243	2021
0.696214653	41	0.016980845	118.4244143	2021
0.659533077	36	0.018320363	127.7662133	2021
0.062731407	10	0.006273141	43.74888325	2021
0.003077649	2	0.001538824	10.73176176	2021
0.687194047	326	0.002107957	14.7008935	2022
21.87056189	1595	0.013711951	95.62714646	2022
13.94085342	1140	0.012228819	85.28378222	2022
0.622277377	220	0.002828534	19.72619285	2022
2.292849718	366	0.006264617	43.68943698	2022
0.722156606	89	0.008114119	56.58786712	2022
0.331155467	55	0.006021008	41.99051326	2022
0.085579827	25	0.003423193	23.8733484	2022
0.225040037	37	0.006082163	42.41700587	2022
0.228844086	33	0.006934669	48.36238344	2022
0.314251922	31	0.010137159	70.69654521	2022
0.687278895	41	0.0167629	116.9044638	2022
0.651097072	36	0.01808603	126.1319717	2022
0.061931292	10	0.006193129	43.19088326	2022
0.003038483	2	0.001519242	10.59519144	2022

VERA Emissions (tons/year)	Wells Drilled Each Year	VERA Emissions (tons/year-well)	VERA Fee Reduction	Year
0.63472356	327	0.001941051	13.53688717	2023
20.1548212	1598	0.012612529	87.95977663	2023
12.82224495	1141	0.011237726	78.37189855	2023
0.576573063	221	0.002608928	18.19466309	2023
2.105376964	366	0.005752396	40.11721023	2023
0.713663783	89	0.008018694	55.92237331	2023
0.32729147	55	0.005950754	41.5005584	2023
0.084589168	25	0.003383567	23.59699425	2023
0.2224489	37	0.006012132	41.92861154	2023
0.226224532	33	0.006855289	47.80878436	2023
0.311384884	31	0.010044674	70.05155416	2023
0.681031426	41	0.016610523	115.8417845	2023
0.645194612	36	0.017922073	124.9885339	2023
0.061371126	10	0.006137113	42.80022306	2023
0.00301105	2	0.001505525	10.49953026	2023
0.566148868	327	0.001731342	12.07437982	2024
17.98579449	1599	0.011248152	78.44460962	2024
11.44254001	1142	0.010019737	69.87764799	2024
0.513462859	221	0.002323361	16.20312207	2024
1.894681601	368	0.005148591	35.90627577	2024
0.743514621	91	0.00817049	56.98099964	2024
0.326184343	55	0.005930624	41.36017474	2024
0.084309906	25	0.003372396	23.5190913	2024
0.221726591	37	0.005992611	41.79246602	2024
0.225503342	33	0.006833435	47.65637288	2024
0.310757833	31	0.010024446	69.91048798	2024
0.679679565	41	0.01657755	115.6118363	2024
0.643927692	36	0.01788688	124.7431035	2024
0.0612517	10	0.00612517	42.71693591	2024
0.003005233	2	0.001502616	10.47924605	2024
0.529063459	328	0.001612998	11.24905049	2025
16.7557884	1601	0.010465827	72.98867475	2025
10.67410601	1144	0.009330512	65.07099241	2025
0.477412289	221	0.002160237	15.06549006	2025
1.762148459	368	0.004788447	33.39462868	2025
0.739037051	91	0.008121286	56.63785049	2025
0.336148471	56	0.006002651	41.86248989	2025
0.083817886	25	0.003352715	23.38183743	2025
0.220446441	37	0.005958012	41.55117517	2025
0.224216682	33	0.006794445	47.38445888	2025
0.309458018	31	0.009982517	69.61807162	2025
0.676859036	41	0.016508757	115.1320711	2025
0.641271318	36	0.017813092	124.2285048	2025
0.061000262	10	0.006100026	42.54158239	2025
0.002992944	2	0.001496472	10.43639721	2025

VERA Emissions (tons/year)	Wells Drilled Each Year	VERA Emissions (tons/year-well)	VERA Fee Reduction	Year
0.507369499	328	0.001546858	10.78778929	2026
16.11967761	1603	0.010055944	70.13015076	2026
10.28338782	1146	0.008973288	62.57970912	2026
0.462621107	222	0.002083879	14.53297118	2026
1.69281577	368	0.004600043	32.08069886	2026
0.525339571	91	0.005772962	40.26063918	2026
0.238876231	56	0.004265647	29.74862205	2026
0.059545106	25	0.002381804	16.61070276	2026
0.156575568	37	0.004231772	29.51237869	2026
0.159218124	33	0.004824792	33.64809686	2026
0.218731407	31	0.007055852	49.20751072	2026
0.478366556	41	0.011667477	81.36898436	2026
0.478705002	37	0.012937973	90.22942384	2026
0.043105292	10	0.004310529	30.06163085	2026
0.002114826	2	0.001057413	7.374398792	2026
0.487355677	329	0.001481324	10.33075529	2027
15.41833374	1604	0.009612428	67.03706953	2027
9.861718752	1148	0.008590347	59.90908239	2027
0.442219535	222	0.00199198	13.89206775	2027
1.627497197	369	0.004410562	30.75925597	2027
0.52120494	91	0.005727527	39.94377198	2027
0.237016072	56	0.00423243	29.51696587	2027
0.059086393	25	0.002363456	16.4827402	2027
0.163890419	38	0.004312906	30.07820488	2027
0.158010126	33	0.004788186	33.39280667	2027
0.217488452	31	0.007015757	48.927886	2027
0.475662532	41	0.011601525	80.90903654	2027
0.476009741	37	0.012865128	89.72140364	2027
0.04286339	10	0.004286339	29.89292815	2027
0.002102989	2	0.001051494	7.333122345	2027
0.453365141	329	0.00137801	9.610238584	2028
14.4067743	1608	0.008959437	62.4831119	2028
9.197809689	1150	0.007998095	55.7787172	2028
0.410921227	222	0.001850997	12.90884971	2028
1.511870724	369	0.004097211	28.57394696	2028
0.520167672	91	0.005716128	39.86427854	2028
0.23655616	56	0.004224217	29.45969035	2028
0.058974685	25	0.002358987	16.45157805	2028
0.163586026	38	0.004304895	30.02234066	2028
0.157722383	33	0.004779466	33.33199687	2028
0.21729918	31	0.007009651	48.88530579	2028
0.475257006	41	0.011591634	80.84005757	2028
0.475610199	37	0.01285433	89.64609544	2028
0.042827879	10	0.004282788	29.8681631	2028
0.002101265	2	0.001050632	7.327110629	2028

VERA Emissions (tons/year)	Wells Drilled Each Year	VERA Emissions (tons/year-well)	VERA Fee Reduction	Year
0.439527529	330	0.001331902	9.288681772	2029
13.91589301	1610	0.008643412	60.27915397	2029
8.892736114	1152	0.007719389	53.8350188	2029
0.395899276	222	0.00178333	12.43694391	2029
1.46444046	370	0.003957947	27.6027237	2029
0.51951318	91	0.005708936	39.81412001	2029
0.236266987	56	0.004219053	29.42367804	2029
0.058904709	25	0.002356188	16.43205775	2029
0.163395849	38	0.004299891	29.98743821	2029
0.157543141	33	0.004774035	33.29411715	2029
0.217255413	31	0.007008239	48.87545966	2029
0.475167391	41	0.011589449	80.82481429	2029
0.47552507	37	0.012852029	89.63004975	2029
0.042820552	10	0.004282055	29.86305316	2029
0.002100919	2	0.001050459	7.325903089	2029
0.438877019	330	0.00132993	9.27493434	2030
13.94712918	1613	0.008646701	60.30209479	2030
8.894997308	1153	0.007714655	53.80200453	2030
0.398882739	223	0.001788712	12.47447635	2030
1.47018792	371	0.003962771	27.63636267	2030
0.518744291	91	0.005700487	39.75519432	2030
0.235917308	56	0.004212809	29.38013041	2030
0.058817529	25	0.002352701	16.40773798	2030
0.16315402	38	0.004293527	29.94305621	2030
0.157309974	33	0.004766969	33.2448412	2030
0.216933871	31	0.006997867	48.80312301	2030
0.474464134	41	0.011572296	80.70519197	2030
0.474821284	37	0.012833008	89.4973955	2030
0.042757177	10	0.004275718	29.81885525	2030
0.002097809	2	0.001048905	7.315060608	2030
0.438228432	330	0.001327965	9.26122754	2031
13.97836937	1616	0.008649981	60.32496782	2031
8.912691733	1155	0.007716616	53.81568151	2031
0.398293258	223	0.001786068	12.45604116	2031
1.468015228	371	0.003956914	27.59552076	2031
0.517977674	91	0.005692062	39.69644281	2031
0.235568661	56	0.004206583	29.3367115	2031
0.058730607	25	0.002349224	16.38349009	2031
0.162912906	38	0.004287182	29.89880539	2031
0.157077496	33	0.004759924	33.1957109	2031
0.230813733	32	0.007212929	50.30296792	2031
0.473762956	41	0.011555194	80.58592322	2031
0.474119578	37	0.012814043	89.36513334	2031
0.042693989	10	0.004269399	29.77478797	2031
0.002094709	2	0.001047354	7.304250174	2031

VERA Emissions (tons/year)	Wells Drilled Each Year	VERA Emissions (tons/year-well)	VERA Fee Reduction	Year
0.442901854	332	0.001334042	9.303607019	2032
13.97502194	1617	0.008642561	60.2732239	2032
8.930387305	1157	0.007718572	53.82931812	2032
0.401280378	224	0.00179143	12.49343464	2032
1.465848949	371	0.003951075	27.55479938	2032
0.517213319	91	0.005683663	39.63786468	2032
0.235221044	56	0.004200376	29.29342073	2032
0.058643941	25	0.002345758	16.35931376	2032
0.162672503	38	0.004280855	29.85468516	2032
0.156845705	33	0.0047529	33.14672559	2032
0.230473132	32	0.007202285	50.22873825	2032
0.473063846	41	0.011538143	80.46700646	2032
0.473419942	37	0.012795134	89.23326153	2032
0.042630988	10	0.004263099	29.73085076	2032
0.002091618	2	0.001045809	7.293471644	2032
0.442357882	332	0.001332403	9.292180334	2033
13.95785783	1617	0.008631947	60.19919636	2033
8.950282027	1159	0.007722418	53.85614051	2033
0.400787526	224	0.00178923	12.47809021	2033
1.471951676	372	0.003956859	27.59513706	2033
0.516578078	91	0.005676682	39.58918148	2033
0.234932146	56	0.004195217	29.25744257	2033
0.063351383	26	0.002436592	16.99279011	2033
0.162472709	38	0.004275598	29.81801765	2033
0.156653067	33	0.004747063	33.1060148	2033
0.230190065	32	0.00719344	50.16704735	2033
0.495811845	42	0.011805044	82.32837636	2033
0.472838488	37	0.012779419	89.12366528	2033
0.042578628	10	0.004257863	29.69433534	2033
0.002089049	2	0.001044524	7.284513806	2033
0.444371769	333	0.00133445	9.306452613	2034
13.9890799	1620	0.008635235	60.22212544	2034
8.967980986	1161	0.007724359	53.86968079	2034
0.400197699	224	0.001786597	12.45972658	2034
1.469785448	372	0.003951036	27.55452612	2034
0.515817845	91	0.005668328	39.53091925	2034
0.234586403	56	0.004189043	29.21438526	2034
0.06325815	26	0.002433006	16.96778233	2034
0.162233602	38	0.004269305	29.77413536	2034
0.156422525	33	0.004740077	33.05729366	2034
0.229851301	32	0.007182853	50.09321799	2034
0.495082173	42	0.011787671	82.20721613	2034
0.472142626	37	0.012760612	88.99250463	2034
0.042515967	10	0.004251597	29.65063507	2034
0.002085975	2	0.001042987	7.273793403	2034

VERA Emissions (tons/year)	Wells Drilled Each Year	VERA Emissions (tons/year-well)	VERA Fee Reduction	Year
0.443718762	333	0.001332489	9.292776709	2035
14.02030601	1623	0.008638513	60.24498713	2035
8.985681075	1163	0.007726295	53.88318127	2035
0.399609605	224	0.001783971	12.44141691	2035
1.475526653	373	0.003955836	27.58799699	2035
0.515059847	91	0.005659998	39.47282826	2035
0.234241676	56	0.004182887	29.17145449	2035
0.063165192	26	0.00242943	16.94284804	2035
0.161995199	38	0.004263032	29.73038204	2035
0.156192661	33	0.004733111	33.00871571	2035
0.229513533	32	0.007172298	50.01960562	2035
0.494354646	42	0.011770349	82.08641199	2035
0.471448808	37	0.01274186	88.86172946	2035
0.042453489	10	0.004245349	29.60706323	2035
0.002082909	2	0.001041455	7.263104508	2035

ction - Well Drilling Emissions Reduced in Changing from 0.5025 to 0.4 Load							
Year	NOX	ROG	CO	SOX	PM10	PM25	VERA Fee Reduction Per Well
2015	87.68	4.58	72.69	0.09	3.03	2.79	$1,370.92
2016	83.65	4.38	72.80	0.09	2.85	2.62	$1,329.07
2017	79.18	4.16	72.94	0.09	2.66	2.45	$1,288.43
2018	68.54	3.62	73.01	0.09	2.21	2.04	$1,186.86
2019	63.04	3.36	73.16	0.09	1.99	1.83	$1,035.59
2020	52.87	3.03	73.25	0.09	1.69	1.55	$953.35
2021	50.92	2.94	73.39	0.09	1.57	1.45	$932.47
2022	39.04	2.49	73.57	0.09	1.20	1.10	$839.78
2023	36.11	2.39	73.67	0.09	1.07	0.98	$813.12
2024	32.46	2.30	73.73	0.09	0.95	0.87	$787.28
2025	30.41	2.23	73.82	0.09	0.86	0.79	$770.54
2026	28.48	2.18	73.94	0.09	0.77	0.71	$598.13
2027	27.32	2.16	74.01	0.09	0.71	0.66	$588.13
2028	25.54	2.13	74.18	0.09	0.66	0.61	$575.05
2029	24.74	2.08	74.29	0.09	0.64	0.58	$568.91
2030	24.77	2.08	74.40	0.09	0.64	0.59	$568.36
2031	24.83	2.09	74.55	0.09	0.64	0.59	$569.30
2032	24.84	2.09	74.60	0.09	0.64	0.59	$568.70
2033	24.87	2.09	74.65	0.09	0.64	0.59	$570.78
2034	24.91	2.10	74.79	0.09	0.64	0.59	$570.17
2035	24.95	2.10	74.93	0.09	0.64	0.59	$569.61
						Average:	**$812.12**

Kern County Well Drilling Summary (2014 Data)

	Hours	Days	Make	Model	Fuel Use (gal)	Rating (BHP)	Max Fuel Use (gal)	LOAD FACTOR
<3,000 ft	32.00	1.33	Daimler AG	OM460LA	37.00	450	735.84	0.050
	34.00	1.42	John Deere	4045L	188.00	99	172.0026	1.093
	10.00	0.42	Tognum America	12v2000	33.00	1050	536.55	0.062
LOAD FACTOR	42.00	1.75	John Deere	4045HF285	252.00	375	804.825	0.313
0.297	42.00	1.75	John Deere	4045HF285	252.00	137	294.0294	0.857
	34.00	1.42	Daimler AG	OM502LA	188.00	644	1118.8856	0.168
	17.00	0.71	Daimler AG	OM460LA	21.00	450	390.915	0.054
	12.00	0.50	John Deere	4045L	61.00	99	60.7068	1.005
	9.00	0.38	Tognum America	12v2000	26.00	1050	482.895	0.054
	26.00	1.08	John Deere	4045HF285	156.00	375	498.225	0.313
	26.00	1.08	John Deere	4045HF285	156.00	137	182.0182	0.857
	12.00	0.50	Daimler AG	OM502LA	61.00	644	394.9008	0.154
	34.00	1.42	Daimler AG	OM460LA	49.00	450	781.83	0.063
	54.00	2.25	John Deere	4045L	222.00	99	273.1806	0.813
	10.00	0.42	Tognum America	12v2000	167.00	1050	536.55	0.311
	53.00	2.21	John Deere	4045HF285	318.00	375	1015.6125	0.313
	53.00	2.21	John Deere	4045HF285	318.00	137	371.0371	0.857
	54.00	2.25	Daimler AG	OM502LA	222.00	644	1777.0536	0.125
	19.00	0.79	Daimler AG	OM460LA	22.00	450	436.91	0.050
	16.00	0.67	John Deere	4045L	112.00	99	80.94	1.384
	12.00	0.50	Tognum America	12v2000	42.00	1050	643.86	0.065
	23.00	0.96	John Deere	4045HF285	138.00	375	440.74	0.313
	23.00	0.96	John Deere	4045HF285	138.00	137	161.02	0.857
	16.00	0.67	Daimler AG	OM502LA	112.00	644	526.53	0.213
	41.52	1.73	Detroit Diesel	Series 60	115.82	665	1410.91	0.082
	41.52	1.73	Detroit Diesel	Series 60	250.94	525	1113.88	0.225
	41.52	1.73	Detroit Diesel	Series 60	233.12	525	1113.88	0.209
	35.28	1.47	Detroit Diesel	Series 60	303.16	665	1198.87	0.253
	35.28	1.47	Detroit Diesel	Series 60	752.22	525	946.47	0.795
	35.28	1.47	Detroit Diesel	Series 60	671.16	525	946.47	0.709
	22.56	0.94	Detroit Diesel	Series 60	325.74	665	766.62	0.425
	22.56	0.94	Detroit Diesel	Series 60	705.77	525	605.23	1.166
	22.56	0.94	Detroit Diesel	Series 60	655.65	525	605.23	1.083
	121.00	5.04	Detroit Diesel	60634MK33	113.00	500	3091.55	0.037
	46.00	1.92	Detroit Diesel	Series 2000	100.00	1120	2632.67	0.038
	144.00	6.00	Detroit Diesel	6063HV35	1232.00	685	5040.50	0.244
	71.52	2.98	Detroit Diesel	Series 60	1035.13	665	2430.36	0.426
	71.52	2.98	Detroit Diesel	Series 60	2242.77	525	1918.70	1.169
	71.52	2.98	Detroit Diesel	Series 60	2083.52	525	1918.70	1.086
	176.00	7.33	Daimler AG	OM460LA	191.00	450	4047.12	0.047
	91.00	3.79	Tognum America	12v2000	394.00	1050	4882.61	0.081
	191.00	7.96	John Deere	4045HF285	1142.00	137	1337.13	0.854

Kern County Well Drilling Summary (2014 Data)

Hours	Days	Make	Model	Fuel Use (gal)	Rating (BHP)	Max Fuel Use (gal)	LOAD FACTOR
166.00	6.92	Daimler AG	OM502LA	1062.00	644	5462.79	0.194
30.48	1.27	Detroit Diesel	Series 60	260.46	665	1035.76	0.251
30.48	1.27	Detroit Diesel	Series 60	646.27	525	817.70	0.790
30.48	1.27	Detroit Diesel	Series 60	576.63	525	817.70	0.705
34.32	1.43	Detroit Diesel	Series 60	311.70	665	1166.25	0.267
34.32	1.43	Detroit Diesel	Series 60	773.41	525	920.72	0.840
34.32	1.43	Detroit Diesel	Series 60	690.06	525	920.72	0.749
51.60	2.15	Detroit Diesel	Series 60	315.97	665	1753.45	0.180
51.60	2.15	Detroit Diesel	Series 60	784.00	525	1384.30	0.566
51.60	2.15	Detroit Diesel	Series 60	699.52	525	1384.30	0.505
136.00	5.67	Detroit Diesel	60634MK33	143.00	500	3474.80	0.041
50.00	2.08	Detroit Diesel	Series 2000	99.00	1120	2861.60	0.035
168.00	7.00	Detroit Diesel	6063HV35	1585.00	685	5880.59	0.270
168.00	7.00	Cummins	QSL9-G3 NR3	546.00	363	3116.28	0.175
79.00	3.29	Detroit Diesel	60634MK33	82.00	500	2018.45	0.041
34.00	1.42	Detroit Diesel	Series 2000	84.00	1120	1945.89	0.043
89.00	3.71	Detroit Diesel	6063HV35	818.00	685	3115.31	0.263
83.00	3.46	Detroit Diesel	60634MK33	86.00	500	2120.65	0.041
39.00	1.63	Detroit Diesel	Series 2000	99.00	1120	2232.05	0.044
96.00	4.00	Detroit Diesel	6063HV35	865.00	685	3360.34	0.257
34.00	1.42	Detroit Diesel	60634MK33	33.00	500	868.70	0.038
60.00	2.50	Detroit Diesel	60634MK33	64.00	500	1533.00	0.042
9.00	0.38	Detroit Diesel	Series 2000	12.00	1120	515.09	0.023
21.00	0.88	Detroit Diesel	Series 2000	68.00	1120	1201.87	0.057
41.00	1.71	Detroit Diesel	6063HV35	294.00	685	1435.14	0.205
72.00	3.00	Detroit Diesel	6063HV35	655.00	685	2520.25	0.260
19.00	0.79	Cummins	QSL9-G3 NR3	13.10	363	352.44	0.037
72.00	3.00	Detroit Diesel	60634MK33	79.00	500	1839.60	0.043
29.00	1.21	Detroit Diesel	Series 2000	81.00	1120	1659.73	0.049
90.00	3.75	Detroit Diesel	6063HV35	844.00	685	3150.32	0.268
8.00		Detroit Diesel	16V2000	187.63	1358	555.15	0.338
8.00		Detroit Diesel	16V2000	165.34	1358	555.15	0.298
8.00		John Deere	4045-G70	39.20	99	40.47	0.969
138.00	5.75	Daimler AG	OM460LA	175.00	450	3173.31	0.055
81.00	3.38	Tognum America	12v2000	233.00	1050	4346.06	0.054
169.00	7.04	John Deere	4045HF285	1014.00	137	1183.12	0.857
144.00	6.00	Daimler AG	OM502LA	957.00	644	4738.81	0.202
96.00	4.00	Detroit Diesel	60634MK33	110.00	500	2452.80	0.045
45.00	1.88	Detroit Diesel	Series 2000	106.00	1120	2575.44	0.041
110.00	4.58	Detroit Diesel	6063HV35	1205.00	685	3850.39	0.313
120.00	5.00	Cummins	QSL9-G3 NR3	390.00	363	2225.92	0.175
30.00	1.25	Detroit Diesel	Series 60	434.32	665	1019.45	0.426

Kern County Well Drilling Summary (2014 Data)

Hours	Days	Make	Model	Fuel Use (gal)	Rating (BHP)	Max Fuel Use (gal)	LOAD FACTOR
30.00	1.25	Detroit Diesel	Series 60	941.02	525	804.83	1.169
30.00	1.25	Detroit Diesel	Series 60	874.20	525	804.83	1.086
34.08	1.42	Detroit Diesel	Series 60	290.35	665	1158.09	0.251
34.08	1.42	Detroit Diesel	Series 60	720.43	525	914.28	0.788
34.08	1.42	Detroit Diesel	Series 60	642.80	525	914.28	0.703
77.00	3.21	Daimler AG	OM460LA	101.00	450	1770.62	0.057
58.00	2.42	Tognum America	12v2000	235.00	1050	3111.99	0.076
95.00	3.96	John Deere	4045HF285	570.00	137	665.07	0.857
79.00	3.29	Daimler AG	OM502LA	540.00	644	2599.76	0.208
127.00	5.29	Daimler AG	OM460LA	169.00	450	2920.37	0.058
144.00	6.00	John Deere	4045L	680.00	99	728.48	0.933
94.00	3.92	Tognum America	12v2000	291.00	1050	5043.57	0.058
143.00	5.96	John Deere	4045HF285	858.00	375	2740.24	0.313
143.00	5.96	John Deere	4045HF285	858.00	137	1001.10	0.857
144.00	6.00	Daimler AG	OM502LA	680.00	644	4738.81	0.143
128.00	5.33	Daimler AG	OM460LA	156.00	450	2943.36	0.053
148.00	6.17	John Deere	4045L	567.00	99	748.72	0.757
65.00	2.71	Tognum America	12v2000	257.00	1050	3487.58	0.074
166.00	6.92	John Deere	4045HF285	996.00	375	3180.98	0.313
148.00	6.17	John Deere	4045HF285	567.00	137	1162.12	0.857
81.00	3.38	Daimler AG	OM502LA	92.00	644	4870.44	0.116
38.00	1.58	Detroit Diesel	60634MK33	97.00	500	2069.55	0.044
88.00	3.67	Detroit Diesel	Series 2000	881.00	1120	2174.82	0.045
96.00	4.00	Cummins	6063HV35	312.00	685	3080.31	0.286
101.00	4.21	Detroit Diesel	QSL9-G3 NR3	118.00	363	1780.73	0.175
44.00	1.83	Detroit Diesel	60634MK33	117.00	500	2580.55	0.046
160.00	6.67	Detroit Diesel	Series 2000	1492.00	1120	2518.21	0.046
168.00	7.00	Cummins	6063HV35	546.00	685	5600.56	0.266
91.00	3.79	Daimler AG	QSL9-G3 NR3	113.00	363	3116.28	0.175
96.00	4.00	John Deere	OM460LA	427.00	450	2092.55	0.054
48.00	2.00	Tognum America	4045L	186.00	99	485.65	0.879
97.00	4.04	John Deere	12v2000	582.00	1050	2575.44	0.072
115.00	4.79	John Deere	4045HF285	690.00	375	1858.76	0.313
109.00	4.54	Daimler AG	4045HF285	470.00	137	805.08	0.857
68.88	2.87	Detroit Diesel	OM502LA	1561.81	644	3587.02	0.131
68.88	2.87	Detroit Diesel	Series 60	402.62	525	1847.88	0.845
68.88	2.87	Detroit Diesel	Series 60	1773.02	525	1847.88	0.218
86.40	3.60	Detroit Diesel	Series 60	1754.21	525	1847.88	0.959
86.40	3.60	Detroit Diesel	Series 60	452.22	525	2317.90	0.757
86.40	3.60	Detroit Diesel	Series 60	1991.44	525	2317.90	0.195
18.00		Caterpillar	C18	147.73	700	643.86	0.859
							0.229

Kern County Well Drilling Summary (2014 Data)

Hours	Days	Make	Model	Fuel Use (gal)	Rating (BHP)	Max Fuel Use (gal)	LOAD FACTOR
18.00		Caterpillar	C15 Acert	541.80	580	533.48	1.016
125.00	5.21	Daimler AG	OM460LA	186.00	450	2874.38	0.065
90.00	3.75	Tognum America	12v2000	403.00	1050	4828.95	0.083
137.00	5.71	John Deere	4045HF285	822.00	137	959.10	0.857
131.00	5.46	Daimler AG	OM502LA	798.00	644	4311.00	0.185
27.36	1.14	Detroit Diesel	Series 60	622.46	525	734.00	0.848
27.36	1.14	Detroit Diesel	Series 60	160.46	525	734.00	0.219
27.36	1.14	Detroit Diesel	Series 60	706.64	525	734.00	0.963
66.00	2.75	Detroit Diesel	60634MK33	55.00	500	1686.30	0.033
34.00	1.42	Detroit Diesel	Series 2000	95.00	1120	1945.89	0.049
68.00	2.83	Detroit Diesel	6063HV35	700.00	685	2380.24	0.294
47.00	1.96	Cummins	QSL9-G3 NR3	149.75	363	871.82	0.172
77.04	3.21	Detroit Diesel	Series 60	1067.45	665	2617.93	0.408
77.04	3.21	Detroit Diesel	Series 60	2648.65	525	2066.79	1.282
77.04	3.21	Detroit Diesel	Series 60	2363.23	525	2066.79	1.143
142.00		Detroit Diesel	16V2000	9043.00	4062	29474.68	0.307
76.56	3.19	Detroit Diesel	Series 60	1731.57	525	2053.91	0.843
76.56	3.19	Detroit Diesel	Series 60	446.38	525	2053.91	0.217
76.56	3.19	Detroit Diesel	Series 60	1965.74	525	2053.91	0.957
104.88	4.37	Detroit Diesel	Series 60	888.12	665	3563.98	0.249
104.88	4.37	Detroit Diesel	Series 60	2203.68	525	2813.67	0.783
104.88	4.37	Detroit Diesel	Series 60	1966.21	525	2813.67	0.699
157.00	6.54	Detroit Diesel	60634MK33	201.00	500	4011.35	0.050
88.00	3.67	Detroit Diesel	Series 2000	270.00	1120	5036.42	0.054
211.00	8.79	Detroit Diesel	6063HV35	1885.00	685	7385.74	0.255
216.00	9.00	Cummins	QSL9-G3 NR3	702.00	363	4006.65	0.175
168.00	7.00	Daimler AG	OM460LA	222.00	450	3863.16	0.057
113.00	4.71	Tognum America	12v2000	485.00	1050	6063.02	0.080
191.00	7.96	John Deere	4045HF285	1146.00	137	1337.13	0.857
160.00	6.67	Daimler AG	OM502LA	997.00	644	5265.34	0.189
282.00	11.75	Detroit Diesel	60634MK33	449.00	500	7205.10	0.062
172.00	7.17	Detroit Diesel	Series 2000	771.00	1120	9843.90	0.078
327.00	13.63	Detroit Diesel	6063HV35	3311.00	685	11446.14	0.289
245.00	10.21	Cummins	QSL9-G3 NR3	796.25	363	4544.58	0.175
149.00	6.21	Daimler AG	OM460LA	240.00	450	3426.26	0.070
116.00	4.83	Tognum America	12v2000	714.00	1050	6223.98	0.115
166.00	6.92	John Deere	4045HF285	996.00	137	1162.12	0.857
156.00	6.50	Daimler AG	OM502LA	874.00	644	5133.71	0.170
64.56	2.69	Detroit Diesel	Series 60	1459.95	525	1731.98	0.843
64.56	2.69	Detroit Diesel	Series 60	376.36	525	1731.98	0.217
64.56	2.69	Detroit Diesel	Series 60	1657.39	525	1731.98	0.957
48.00	2.00	Detroit Diesel	Series 60	409.90	665	1631.11	0.251

Kern County Well Drilling Summary (2014 Data)

Hours	Days	Make	Model	Fuel Use (gal)	Rating (BHP)	Max Fuel Use (gal)	LOAD FACTOR
48.00	2.00	Detroit Diesel	Series 60	1017.08	525	1287.72	0.790
48.00	2.00	Detroit Diesel	Series 60	907.48	525	1287.72	0.705
70.00	2.92	Detroit Diesel	Series 60	147.00	685	2450.25	0.060
42.00	1.75	Detroit Diesel	Series 2000	176.00	1005	2156.93	0.082
68.00	2.83	Detroit Diesel	Series 60	432.00	500	1737.40	0.249
76.00	3.17	Detroit Diesel	Series 60	161.00	685	2660.27	0.061
71.00	2.96	Detroit Diesel	Series 2000	221.00	1005	3646.24	0.061
94.00	3.92	Detroit Diesel	Series 60	611.00	500	2401.70	0.254
85.92	3.58	Detroit Diesel	Series 60	734.41	665	2919.69	0.252
85.92	3.58	Detroit Diesel	Series 60	1822.27	525	2305.02	0.791
85.92	3.58	Detroit Diesel	Series 60	1625.90	525	2305.02	0.705
124.00	5.17	Detroit Diesel	60634MK33	214.00	500	3168.20	0.068
102.00	4.25	Detroit Diesel	Series 2000	463.00	1120	5837.66	0.079
139.00	5.79	Detroit Diesel	6063HV35	1609.00	685	4865.49	0.331
102.00	4.25	Cummins	QSL9-G3 NR3	331.50	363	1892.03	0.175
132.00	5.50	Detroit Diesel	60634MK33	178.00	500	3372.60	0.053
84.00	3.50	Detroit Diesel	Series 2000	314.00	1120	4807.49	0.065
159.00	6.63	Detroit Diesel	6063HV35	1688.00	685	5565.56	0.303
139.00	5.79	Cummins	QSL9-G3 NR3	451.75	363	2578.35	0.175
147.00	6.13	Daimler AG	OM460LA	208.00	450	3380.27	0.062
130.00	5.42	Tognum America	12v2000	540.00	1050	6975.15	0.077
167.00	6.96	John Deere	4045HF285	1002.00	137	1169.12	0.857
151.00	6.29	Daimler AG	OM502LA	1031.00	644	4969.17	0.207
116.00	4.83	Detroit Diesel	60634MK33	164.00	500	2963.80	0.055
70.00	2.92	Detroit Diesel	Series 2000	333.00	1120	4006.24	0.083
136.00	5.67	Detroit Diesel	6063HV35	1394.00	685	4760.48	0.293
46.00	1.92	Cummins	QSL9-G3 NR3	32.20	363	853.27	0.038
147.00	6.13	Detroit Diesel	60634MK33	202.00	500	3755.85	0.054
91.00	3.79	Detroit Diesel	Series 2000	429.00	1120	5208.11	0.082
165.00	6.88	Detroit Diesel	6063HV35	1711.00	685	5775.58	0.296
55.00	2.29	Cummins	QSL9-G3 NR3	38.50	363	1020.21	0.038
96.00	4.00	Detroit Diesel	Series 60	2172.95	525	2575.44	0.844
96.00	4.00	Detroit Diesel	Series 60	560.17	525	2575.44	0.218
96.00	4.00	Detroit Diesel	Series 60	2466.82	525	2575.44	0.958
149.00	6.21	Detroit Diesel	60634MK33	207.00	500	3806.95	0.054
99.00	4.13	Detroit Diesel	Series 2000	386.00	1120	5665.97	0.068
155.00	6.46	Detroit Diesel	6063HV35	1612.00	685	5425.54	0.297
49.00	2.04	Cummins	QSL9-G3 NR3	34.30	363	908.92	0.038
170.00	7.08	Detroit Diesel	60634MK33	249.00	500	4343.50	0.057
115.00	4.79	Detroit Diesel	Series 2000	471.00	1120	6581.68	0.072
189.00	7.88	Detroit Diesel	6063HV35	1971.00	685	6615.66	0.298
62.00	2.58	Cummins	QSL9-G3 NR3	43.40	363	1150.06	0.038

Kern County Well Drilling Summary (2014 Data)

Hours	Days	Make	Model	Fuel Use (gal)	Rating (BHP)	Max Fuel Use (gal)	LOAD FACTOR
82.56	3.44	Detroit Diesel	Series 60	1629.71	525	2214.88	0.736
82.56	3.44	Detroit Diesel	Series 60	420.12	525	2214.88	0.190
82.56	3.44	Detroit Diesel	Series 60	1850.11	525	2214.88	0.835
13.00		Detroit Diesel	16V2000	304.90	1358	902.12	0.338
13.00		Detroit Diesel	16V2000	268.68	1358	902.12	0.298
13.00		John Deere	4045-G70	63.70	99	65.77	0.969
13.00		Detroit Diesel	16V2000	304.90	1358	902.12	0.338
13.00		Detroit Diesel	16V2000	268.68	1358	902.12	0.298
13.00		John Deere	4045-G70	63.70	99	65.77	0.969
121.00	5.04	Detroit Diesel	Series 60	274.00	685	4235.42	0.065
102.00	4.25	Detroit Diesel	Series 2000	394.00	1005	5238.26	0.075
129.00	5.38	Detroit Diesel	Series 60	792.00	500	3295.95	0.240
13.50		Detroit Diesel	16V2000	316.63	1358	936.82	0.338
13.50		Detroit Diesel	16V2000	279.02	1358	936.82	0.298
13.50		John Deere	4045-G70	66.15	99	68.30	0.969
67.92	2.83	Detroit Diesel	Series 60	1584.44	525	1822.12	0.870
67.92	2.83	Detroit Diesel	Series 60	408.45	525	1822.12	0.224
67.92	2.83	Detroit Diesel	Series 60	1798.72	525	1822.12	0.987
150.00	6.25	Detroit Diesel	60634MK33	232.00	500	3832.50	0.061
102.00	4.25	Detroit Diesel	Series 2000	453.00	1120	5837.66	0.078
164.00	6.83	Detroit Diesel	6063HV35	1695.00	685	5740.57	0.295
83.00	3.46	Cummins	QSL9-G3 NR3	272.75	363	1539.59	0.177
120.00	5.00	Detroit Diesel	60634MK33	162.00	500	3066.00	0.053
85.00	3.54	Detroit Diesel	Series 2000	316.00	1120	4864.72	0.065
138.00	5.75	Detroit Diesel	6063HV35	1419.00	685	4830.48	0.294
34.00	1.42	Cummins	QSL9-G3 NR3	23.80	363	630.68	0.038
123.00	5.13	Detroit Diesel	Series 60	264.00	685	4305.43	0.061
81.00	3.38	Detroit Diesel	Series 2000	319.00	1005	4159.80	0.077
136.00	5.67	Detroit Diesel	Series 60	943.00	500	3474.80	0.271
12.00		Detroit Diesel	16V2000	281.45	1358	832.73	0.338
12.00		Detroit Diesel	16V2000	248.02	1358	832.73	0.298
12.00		John Deere	4045-G70	58.80	99	60.71	0.969
72.48	3.02	Detroit Diesel	Series 60	1641.03	525	1944.46	0.844
72.48	3.02	Detroit Diesel	Series 60	423.04	525	1944.46	0.218
72.48	3.02	Detroit Diesel	Series 60	1862.96	525	1944.46	0.958
39.00	1.63	Daimler AG	OM460LA	65.00	450	896.81	0.072
35.00	1.46	Tognum America	12v2000	120.00	1050	1877.93	0.064
50.00	2.08	John Deere	4045HF285	300.00	137	350.04	0.857
47.00	1.96	Daimler AG	OM502LA	128.00	644	1546.69	0.083
63.12	2.63	Detroit Diesel	Series 60	182.56	525	1693.35	0.108
63.12	2.63	Detroit Diesel	Series 60	297.87	525	1693.35	0.176
63.12	2.63	Perkins	3362-1800	296.27	525	1693.35	0.175

Kern County Well Drilling Summary (2014 Data)

Hours	Days	Make	Model	Fuel Use (gal)	Rating (BHP)	Max Fuel Use (gal)	LOAD FACTOR
63.12	2.63	Detroit Diesel	Series 60	1902.39	525	1693.35	1.123
63.12	2.63	Detroit Diesel	Series 60	1930.45	525	1693.35	1.140
63.12	2.63	Detroit Diesel	Series 60	608.88	525	1693.35	0.360
11.50		Detroit Diesel	16V2000	269.72	1358	798.03	0.338
11.50		Detroit Diesel	16V2000	237.68	1358	798.03	0.298
11.50		John Deere	4045-G70	56.35	99	58.18	0.969
73.44	3.06	Detroit Diesel	Series 60	1143.06	525	1970.21	0.580
73.44	3.06	Detroit Diesel	Series 60	294.67	525	1970.21	0.150
73.44	3.06	Detroit Diesel	Series 60	1297.65	525	1970.21	0.659
130.00	5.42	Detroit Diesel	Series 60	284.00	685	4550.46	0.062
149.00	6.21	Detroit Diesel	Series 60	327.00	685	5215.52	0.063
102.00	4.25	Detroit Diesel	Series 2000	349.00	1005	5238.26	0.067
102.00	4.25	Detroit Diesel	Series 2000	382.00	1005	5238.26	0.073
151.00	6.29	Detroit Diesel	Series 60	961.00	500	3858.05	0.249
174.00	7.25	Detroit Diesel	Series 60	1081.00	500	4445.70	0.243
110.00	4.58	Detroit Diesel	60634MK33	163.00	500	2810.50	0.058
70.00	2.92	Detroit Diesel	Series 2000	343.00	1120	4006.24	0.086
122.00	5.08	Detroit Diesel	6063HV35	1365.00	685	4270.43	0.320
120.00	5.00	Cummins	QSL9-G3 NR3	390.00	363	2225.92	0.175
14.00		Detroit Diesel	16V2000	328.36	1358	971.51	0.338
14.00		Detroit Diesel	16V2000	289.35	1358	971.51	0.298
14.00		John Deere	4045-G70	68.60	99	70.82	0.969
76.00	3.17	Detroit Diesel	Series 60	166.00	685	2660.27	0.062
48.00	2.00	Detroit Diesel	Series 2000	208.00	1005	2465.06	0.084
80.00	3.33	Detroit Diesel	Series 60	528.00	500	2044.00	0.258
169.00	7.04	Detroit Diesel	60634MK33	263.00	500	4317.95	0.061
119.00	4.96	Detroit Diesel	Series 2000	462.00	1120	6810.61	0.068
187.00	7.79	Detroit Diesel	6063HV35	2091.00	685	6545.65	0.319
132.00	5.50	Cummins	QSL9-G3 NR3	429.00	363	2448.51	0.175
109.00	4.54	Detroit Diesel	Series 60	217.00	685	3815.38	0.057
95.00	3.96	Detroit Diesel	Series 2000	379.00	1005	4878.77	0.078
116.00	4.83	Detroit Diesel	Series 60	742.00	500	2963.80	0.250
72.00	3.00	Detroit Diesel	Series 60	137.17	525	1931.58	0.071
72.00	3.00	Detroit Diesel	Series 60	223.80	525	1931.58	0.116
72.00	3.00	Perkins	3362-1800	222.60	525	1931.58	0.115
72.00	3.00	Detroit Diesel	Series 60	1429.34	525	1931.58	0.740
72.00	3.00	Detroit Diesel	Series 60	1450.42	525	1931.58	0.751
72.00	3.00	Detroit Diesel	Series 60	457.47	525	1931.58	0.237
78.96	3.29	Detroit Diesel	Series 60	1128.58	665	2683.18	0.421
78.96	3.29	Detroit Diesel	Series 60	2212.90	525	2118.30	1.045
78.96	3.29	Detroit Diesel	Series 60	1128.58	665	2683.18	0.421
78.96	3.29	Detroit Diesel	Series 60	2099.10	525	2118.30	0.991

Kern County Well Drilling Summary (2014 Data)

Hours	Days	Make	Model	Fuel Use (gal)	Rating (BHP)	Max Fuel Use (gal)	LOAD FACTOR
119.00	4.96	Detroit Diesel	60634MK33	174.00	500	3040.45	0.057
71.00	2.96	Detroit Diesel	Series 2000	328.00	1120	4063.47	0.081
138.00	5.75	Detroit Diesel	6063HV35	1421.00	685	4830.48	0.294
88.00	3.67	Cummins	QSL9-G3 NR3	286.00	363	1632.34	0.175
137.00	5.71	Detroit Diesel	60634MK33	212.00	500	3500.35	0.061
92.00	3.83	Detroit Diesel	Series 2000	429.00	1120	5265.34	0.081
165.00	6.88	Detroit Diesel	6063HV35	1719.00	685	5775.58	0.298
167.00	6.96	Cummins	QSL9-G3 NR3	542.75	363	3097.73	0.175
81.36	3.39	Detroit Diesel	Series 60	11.76	525	2182.69	0.005
81.36	3.39	Detroit Diesel	Series 60	19.18	525	2182.69	0.009
81.36	3.39	Perkins	3362-1800	19.08	525	2182.69	0.009
81.36	3.39	Detroit Diesel	Series 60	122.52	525	2182.69	0.056
81.36	3.39	Detroit Diesel	Series 60	124.32	525	2182.69	0.057
81.36	3.39	Detroit Diesel	Series 60	39.21	525	2182.69	0.018
131.00	5.46	Daimler AG	OM460LA	182.00	450	3012.35	0.060
104.00	4.33	Tognum America	12v2000	446.00	1050	5580.12	0.080
145.00	6.04	John Deere	4045HF285	870.00	137	1015.10	0.857
140.00	5.83	Daimler AG	OM502LA	882.00	644	4607.18	0.191
138.00	5.75	Detroit Diesel	60634MK33	191.00	500	3525.90	0.054
99.00	4.13	Detroit Diesel	Series 2000	327.00	1120	5665.97	0.058
163.00	6.79	Detroit Diesel	6063HV35	1530.00	685	5705.57	0.268
53.00	2.21	Cummins	QSL9-G3 NR3	37.10	363	983.11	0.038
127.00	5.29	Detroit Diesel	60634MK33	180.00	500	3244.85	0.055
87.00	3.63	Detroit Diesel	Series 2000	414.00	1120	4979.18	0.083
141.00	5.88	Detroit Diesel	6063HV35	1475.00	685	4935.49	0.299
73.00	3.04	Cummins	QSL9-G3 NR3	237.25	363	1354.10	0.175
132.00	5.50	Detroit Diesel	60634MK33	201.00	500	3372.60	0.060
88.00	3.67	Detroit Diesel	Series 2000	351.00	1120	5036.42	0.070
135.00	5.63	Detroit Diesel	6063HV35	1462.00	685	4725.47	0.309
68.00	2.83	Cummins	QSL9-G3 NR3	221.00	363	1261.35	0.175
192.00	8.00	Detroit Diesel	Series 60	414.00	685	6720.67	0.062
125.00	5.21	Detroit Diesel	Series 2000	410.00	1005	6419.44	0.064
199.00	8.29	Detroit Diesel	Series 60	1228.00	500	5084.45	0.242
13.50		Detroit Diesel	16V2000	316.63	1358	936.82	0.338
13.50		Detroit Diesel	16V2000	279.02	1358	936.82	0.298
13.50		John Deere	4045-G70	66.15	99	68.30	0.969
243.00	10.13	Detroit Diesel	60634MK33	338.00	500	6208.65	0.054
159.00	6.63	Detroit Diesel	Series 2000	541.00	1120	9099.89	0.059
258.00	10.75	Detroit Diesel	6063HV35	2587.00	685	9030.90	0.286
19.00	0.79	Cummins	QSL9-G3 NR3	13.30	363	352.44	0.038
68.00	2.83	Detroit Diesel	Series 60	145.00	685	2380.24	0.061
57.00	2.38	Detroit Diesel	Series 2000	185.00	1005	2927.26	0.063

Kern County Well Drilling Summary (2014 Data)

Hours	Days	Make	Model	Fuel Use (gal)	Rating (BHP)	Max Fuel Use (gal)	LOAD FACTOR
74.00	3.08	Detroit Diesel	Series 60	503.00	500	1890.70	0.266
120.00	5.00	Detroit Diesel	Series 60	292.00	685	4200.42	0.070
90.00	3.75	Detroit Diesel	Series 2000	342.00	1005	4622.00	0.074
133.00	5.54	Detroit Diesel	Series 60	803.00	500	3398.15	0.236
118.00	4.92	Detroit Diesel	Series 60	292.00	685	4130.41	0.071
99.00	4.13	Detroit Diesel	Series 2000	360.00	1005	5084.19	0.071
137.00	5.71	Detroit Diesel	Series 60	807.00	500	3500.35	0.231
150.00	6.25	Detroit Diesel	60634MK33	210.00	500	3832.50	0.055
100.00	4.17	Detroit Diesel	Series 2000	335.00	1120	5723.20	0.059
168.00	7.00	Detroit Diesel	6063HV35	1691.00	685	5880.59	0.288
62.00	2.58	Cummins	QSL9-G3 NR3	42.40	363	1150.06	0.037
161.00	6.71	Detroit Diesel	60634MK33	252.00	500	4113.55	0.061
82.00	3.42	Detroit Diesel	60634MK33	128.00	500	2095.10	0.061
111.00	4.63	Detroit Diesel	Series 2000	494.00	1120	6352.75	0.078
60.00	2.50	Detroit Diesel	Series 2000	221.00	1120	3433.92	0.064
164.00	6.83	Detroit Diesel	6063HV35	1805.00	685	5740.57	0.314
86.00	3.58	Detroit Diesel	6063HV35	845.00	685	3010.30	0.281
117.00	4.88	Cummins	QSL9-G3 NR3	380.25	363	2170.27	0.175
54.00	2.25	Cummins	QSL9-G3 NR3	38.00	363	1001.66	0.038
76.00	3.17	Detroit Diesel	Series 60	171.00	685	2660.27	0.064
61.00	2.54	Detroit Diesel	Series 2000	356.00	1005	3132.69	0.114
81.00	3.38	Detroit Diesel	Series 60	503.00	500	2069.55	0.243
131.00	5.46	Detroit Diesel	60634MK33	196.00	500	3347.05	0.059
83.00	3.46	Detroit Diesel	Series 2000	329.00	1120	4750.26	0.069
144.00	6.00	Detroit Diesel	6063HV35	1412.00	685	5040.50	0.280
24.00	1.00	Cummins	QSL9-G3 NR3	16.80	363	445.18	0.038
44.40	1.85	Detroit Diesel	Series 60	669.62	665	1508.78	0.444
44.40	1.85	Detroit Diesel	Series 60	1312.99	525	1191.14	1.102
44.40	1.85	Detroit Diesel	Series 60	669.62	665	1508.78	0.444
44.40	1.85	Detroit Diesel	Series 60	1245.46	525	1191.14	1.046
14.50		Detroit Diesel	16V2000	340.08	1358	1006.21	0.338
14.50		Detroit Diesel	16V2000	299.69	1358	1006.21	0.298
14.50		John Deere	4045-G70	71.05	99	73.35	0.969
149.00	6.21	Detroit Diesel	60634MK33	213.00	500	3806.95	0.056
104.00	4.33	Detroit Diesel	Series 2000	398.00	1120	5952.13	0.067
168.00	7.00	Detroit Diesel	6063HV35	1705.00	685	5880.59	0.290
104.00	4.33	Cummins	QSL9-G3 NR3	72.80	363	1929.13	0.038
123.00	5.13	Detroit Diesel	60634MK33	184.00	500	3142.65	0.059
94.00	3.92	Detroit Diesel	Series 2000	350.00	1120	5379.81	0.065
139.00	5.79	Detroit Diesel	6063HV35	1417.00	685	4865.49	0.291
121.00	5.04	Cummins	QSL9-G3 NR3	84.70	363	2244.47	0.038
15.00		Detroit Diesel	16V2000	351.81	1358	1040.91	0.338

Kern County Well Drilling Summary (2014 Data)

Hours	Days	Make	Model	Fuel Use (gal)	Rating (BHP)	Max Fuel Use (gal)	LOAD FACTOR
15.00		Detroit Diesel	16V2000	310.02	1358	1040.91	0.298
15.00		John Deere	4045-G70	73.50	99	75.88	0.969
72.00	3.00	Detroit Diesel	Series 60	32.33	525	1931.58	0.017
72.00	3.00	Detroit Diesel	Series 60	52.75	525	1931.58	0.027
72.00	3.00	Perkins	3362-1800	52.47	525	1931.58	0.027
140.00	5.83	Detroit Diesel	60634MK33	207.00	500	3577.00	0.058
97.00	4.04	Detroit Diesel	Series 2000	403.00	1120	5551.50	0.073
160.00	6.67	Detroit Diesel	6063HV35	1605.00	685	5600.56	0.287
59.00	2.46	Cummins	QSL9-G3 NR3	41.30	363	1094.41	0.038
86.00	3.58	Detroit Diesel	60634MK33	124.00	500	2197.30	0.056
64.00	2.67	Detroit Diesel	Series 2000	271.00	1120	3662.85	0.074
121.00	5.04	Detroit Diesel	6063HV35	1185.00	685	4235.42	0.280
68.00	2.83	Cummins	QSL9-G3 NR3	47.60	363	1261.35	0.038
96.00	4.00	Detroit Diesel	Series 60	1444.58	665	3262.22	0.443
96.00	4.00	Detroit Diesel	Series 60	2832.52	525	2575.44	1.100
96.00	4.00	Detroit Diesel	Series 60	1444.58	665	3262.22	0.443
96.00	4.00	Detroit Diesel	Series 60	2686.84	525	2575.44	1.043
64.00	2.67	Detroit Diesel	Series 60	157.00	685	2240.22	0.070
57.00	2.38	Detroit Diesel	Series 2000	264.00	1005	2927.26	0.090
80.00	3.33	Detroit Diesel	Series 60	449.00	500	2044.00	0.220
132.24	5.51	Detroit Diesel	Series 60	1990.06	665	4493.71	0.443
132.24	5.51	Detroit Diesel	Series 60	3902.09	525	3547.67	1.100
132.24	5.51	Detroit Diesel	Series 60	1990.06	665	4493.71	0.443
132.24	5.51	Detroit Diesel	Series 60	3701.41	525	3547.67	1.043
78.00	3.25	Detroit Diesel	60634MK33	111.00	500	1992.90	0.056
48.00	2.00	Detroit Diesel	Series 2000	276.00	1120	2747.14	0.100
68.00	2.83	Detroit Diesel	6063HV35	735.00	685	2380.24	0.309
94.00	3.92	Cummins	QSL9-G3 NR3	64.80	363	1743.63	0.037
16.00		Detroit Diesel	16V2000	375.26	1358	1110.30	0.338
16.00		Detroit Diesel	16V2000	330.69	1358	1110.30	0.298
16.00		John Deere	4045-G70	78.40	99	80.94	0.969
73.44	3.06	Detroit Diesel	Series 60	910.39	665	2495.60	0.365
73.44	3.06	Detroit Diesel	Series 60	1785.08	525	1970.21	0.906
73.44	3.06	Detroit Diesel	Series 60	910.39	665	2495.60	0.365
73.44	3.06	Detroit Diesel	Series 60	1693.27	525	1970.21	0.859
83.04	3.46	Detroit Diesel	Series 60	1248.96	665	2821.82	0.443
83.04	3.46	Detroit Diesel	Series 60	2448.95	525	2227.76	1.099
83.04	3.46	Detroit Diesel	Series 60	1248.96	665	2821.82	0.443
83.04	3.46	Detroit Diesel	Series 60	2323.00	525	2227.76	1.043
83.00	3.46	Detroit Diesel	60634MK33	124.00	500	2120.65	0.058
61.00	2.54	Detroit Diesel	Series 2000	278.00	1120	3491.15	0.080
93.00	3.88	Detroit Diesel	6063HV35	922.00	685	3255.33	0.283

Kern County Well Drilling Summary (2014 Data)

Hours	Days	Make	Model	Fuel Use (gal)	Rating (BHP)	Max Fuel Use (gal)	LOAD FACTOR
35.00	1.46	Cummins	QSL9-G3 NR3	26.50	363	649.23	0.041
123.84	5.16	Detroit Diesel	Series 60	303.08	525	3322.32	0.091
123.84	5.16	Detroit Diesel	Series 60	494.49	525	3322.32	0.149
123.84	5.16	Perkins	3362-1800	491.83	525	3322.32	0.148
123.84	5.16	Detroit Diesel	Series 60	3158.17	525	3322.32	0.951
123.84	5.16	Detroit Diesel	Series 60	3204.75	525	3322.32	0.965
123.84	5.16	Detroit Diesel	Series 60	1010.80	525	3322.32	0.304
72.00	3.00	Detroit Diesel	Series 60	121.82	525	1931.58	0.063
72.00	3.00	Detroit Diesel	Series 60	198.76	525	1931.58	0.103
72.00	3.00	Perkins	3362-1800	197.69	525	1931.58	0.102
63.84	2.66	Detroit Diesel	Series 60	312.22	525	1712.67	0.182
63.84	2.66	Detroit Diesel	Series 60	509.41	525	1712.67	0.297
63.84	2.66	Perkins	3362-1800	506.67	525	1712.67	0.296
63.84	2.66	Detroit Diesel	Series 60	3253.46	525	1712.67	1.900
63.84	2.66	Detroit Diesel	Series 60	3301.44	525	1712.67	1.928
63.84	2.66	Detroit Diesel	Series 60	1041.30	525	1712.67	0.608
90.48	3.77	Detroit Diesel	Series 60	1354.30	665	3074.65	0.440
90.48	3.77	Detroit Diesel	Series 60	2655.48	525	2427.35	1.094
90.48	3.77	Detroit Diesel	Series 60	1354.30	665	3074.65	0.440
90.48	3.77	Detroit Diesel	Series 60	2518.92	525	2427.35	1.038
91.92	3.83	Detroit Diesel	Series 60	2322.30	525	2465.98	0.942
91.92	3.83	Detroit Diesel	Series 60	2350.32	525	2465.98	0.953
91.92	3.83	Detroit Diesel	Series 60	476.37	525	2465.98	0.193
75.00	3.13	Detroit Diesel	60634MK33	111.00	500	1916.25	0.058
54.00	2.25	Detroit Diesel	Series 2000	324.00	1120	3090.53	0.105
99.00	4.13	Detroit Diesel	6063HV35	919.00	685	3465.35	0.265
96.00	4.00	Cummins	QSL9-G3 NR3	312.00	363	1780.73	0.175
155.00	6.46	Detroit Diesel	Series 60	381.00	685	5425.54	0.070
127.00	5.29	Detroit Diesel	Series 2000	486.00	1005	6522.15	0.075
169.00	7.04	Detroit Diesel	Series 60	1022.00	500	4317.95	0.237
64.00	2.67	Detroit Diesel	60634MK33	105.00	500	1635.20	0.064
50.00	2.08	Detroit Diesel	Series 2000	372.00	1120	2861.60	0.130
85.00	3.54	Detroit Diesel	6063HV35	825.00	685	2975.30	0.277
96.00	4.00	Cummins	QSL9-G3 NR3	312.00	363	1780.73	0.175
151.00	6.29	Detroit Diesel	60634MK33	227.00	500	3858.05	0.059
98.00	4.08	Detroit Diesel	Series 2000	415.00	1120	5608.74	0.074
164.00	6.83	Detroit Diesel	6063HV35	1641.00	685	5740.57	0.286
100.00	4.17	Cummins	QSL9-G3 NR3	325.00	363	1854.93	0.175
51.84	2.16	Detroit Diesel	Series 60	1312.61	525	1390.74	0.944
51.84	2.16	Detroit Diesel	Series 60	1328.44	525	1390.74	0.955
51.84	2.16	Detroit Diesel	Series 60	269.25	525	1390.74	0.194
43.44	1.81	Detroit Diesel	Series 60	1098.05	525	1165.39	0.942

Kern County Well Drilling Summary (2014 Data)

Hours	Days	Make	Model	Fuel Use (gal)	Rating (BHP)	Max Fuel Use (gal)	LOAD FACTOR
43.44	1.81	Detroit Diesel	Series 60	1111.29	525	1165.39	0.954
43.44	1.81	Detroit Diesel	Series 60	225.24	525	1165.39	0.193
78.00	3.25	Detroit Diesel	60634MK33	119.00	500	1992.90	0.060
53.00	2.21	Detroit Diesel	Series 2000	352.00	1120	3033.30	0.116
90.00	3.75	Detroit Diesel	6063HV35	915.00	685	3150.32	0.290
136.00	5.67	Cummins	QSL9-G3 NR3	364.00	363	2522.70	0.144
68.88	2.87	Detroit Diesel	Series 60	439.13	525	1847.88	0.238
68.88	2.87	Detroit Diesel	Series 60	166.47	525	1847.88	0.090
68.88	2.87	Detroit Diesel	Series 60	1966.03	525	1847.88	1.064
102.00	4.25	Detroit Diesel	60634MK33	160.00	500	2606.10	0.061
78.00	3.25	Detroit Diesel	Series 2000	405.00	1120	4464.10	0.091
105.00	4.38	Detroit Diesel	6063HV35	1235.00	685	3675.37	0.336
120.00	5.00	Cummins	QSL9-G3 NR3	390.00	363	2225.92	0.175
41.04	1.71	Detroit Diesel	Series 60	260.93	525	1101.00	0.237
41.04	1.71	Detroit Diesel	Series 60	98.92	525	1101.00	0.090
41.04	1.71	Detroit Diesel	Series 60	1168.22	525	1101.00	1.061
15.50		John Deere	4045-G70	75.95	99	78.41	0.969
15.50		Detroit Diesel	16V2000	432.56	1358	1075.60	0.402
15.50		Detroit Diesel	16V2000	394.51	1358	1075.60	0.367
15.50		Cummins	QSB5-G4	19.64	126	99.80	0.197
15.50		John Deere	4045-G70	75.95	99	78.41	0.969
15.00		John Deere	4045-G70	73.50	99	75.88	0.969
15.00		Detroit Diesel	16V2000	418.61	1358	1040.91	0.402
15.00		Detroit Diesel	16V2000	381.78	1358	1040.91	0.367
15.00		Cummins	QSB5-G4	19.01	126	96.58	0.197
15.00		John Deere	4045-G70	73.50	99	75.88	0.969
74.88	3.12	Detroit Diesel	Series 60	237.76	525	2008.84	0.118
74.88	3.12	Detroit Diesel	Series 60	387.92	525	2008.84	0.193
74.88	3.12	Perkins	3362-1800	385.83	525	2008.84	0.192
17.50		John Deere	4045-G70	85.75	99	88.53	0.969
17.50		Detroit Diesel	16V2000	488.37	1358	1214.39	0.402
17.50		Detroit Diesel	16V2000	445.41	1358	1214.39	0.367
17.50		Cummins	QSB5-G4	22.17	126	112.68	0.197
17.50		John Deere	4045-G70	85.75	99	88.53	0.969
58.08	2.42	Detroit Diesel	Series 60	1249.50	525	1558.14	0.802
58.08	2.42	Detroit Diesel	Series 60	1264.58	525	1558.14	0.812
58.08	2.42	Detroit Diesel	Series 60	256.31	525	1558.14	0.164
109.00	4.54	Detroit Diesel	60634MK33	171.00	500	2784.95	0.061
72.00	3.00	Detroit Diesel	Series 2000	376.00	1120	4120.70	0.091
116.00	4.83	Detroit Diesel	6063HV35	1177.00	685	4060.41	0.290
120.00	5.00	Cummins	QSL9-G3 NR3	390.00	363	2225.92	0.175
120.24	5.01	Detroit Diesel	Series 60	3041.71	525	3225.74	0.943

Kern County Well Drilling Summary (2014 Data)

Hours	Days	Make	Model	Fuel Use (gal)	Rating (BHP)	Max Fuel Use (gal)	LOAD FACTOR
120.24	5.01	Detroit Diesel	Series 60	3078.41	525	3225.74	0.954
120.24	5.01	Detroit Diesel	Series 60	623.94	525	3225.74	0.193
219.00	9.13	Detroit Diesel	60634MK33	339.00	500	5595.45	0.061
156.00	6.50	Detroit Diesel	Series 2000	525.00	1120	8928.19	0.059
235.00	9.79	Detroit Diesel	6063HV35	2564.00	685	8225.82	0.312
80.00	3.33	Cummins	QSL9-G3 NR3	56.00	363	1483.94	0.038
57.60	2.40	Detroit Diesel	Series 60	1451.44	525	1545.26	0.939
57.60	2.40	Detroit Diesel	Series 60	1468.95	525	1545.26	0.951
57.60	2.40	Detroit Diesel	Series 60	297.73	525	1545.26	0.193
37.44	1.56	Detroit Diesel	Series 60	238.66	525	1004.42	0.238
37.44	1.56	Detroit Diesel	Series 60	90.47	525	1004.42	0.090
37.44	1.56	Detroit Diesel	Series 60	1068.50	525	1004.42	1.064
48.48	2.02	Detroit Diesel	Series 60	1224.26	525	1300.60	0.941
48.48	2.02	Detroit Diesel	Series 60	1239.03	525	1300.60	0.953
48.48	2.02	Detroit Diesel	Series 60	251.13	525	1300.60	0.193
35.28	1.47	Detroit Diesel	Series 60	1050.86	525	946.47	1.110
35.28	1.47	Detroit Diesel	Series 60	1137.87	525	946.47	1.202
35.28	1.47	Detroit Diesel	Series 60	388.21	525	946.47	0.410
158.00	6.58	Daimler AG	OM460LA	226.00	450	3633.21	0.062
129.00	5.38	John Deere	4045L	774.00	99	652.60	1.186
97.00	4.04	Tognum America	12v2000	610.00	1050	5204.54	0.117
189.00	7.88	John Deere	4045HF285	1134.00	137	1323.13	0.857
181.00	7.54	Daimler AG	OM502LA	1120.00	644	5956.42	0.188
60.48	2.52	Detroit Diesel	Series 60	353.21	525	1622.53	0.218
60.48	2.52	Detroit Diesel	Series 60	133.90	525	1622.53	0.083
60.48	2.52	Detroit Diesel	Series 60	1581.37	525	1622.53	0.975
202.00	8.42	Daimler AG	OM460LA	296.00	450	4644.99	0.064
198.00	8.25	John Deere	4045L	1098.00	99	1001.66	1.096
172.00	7.17	Tognum America	12v2000	907.00	1050	9228.66	0.098
233.00	9.71	John Deere	4045HF285	1410.00	137	1631.16	0.864
223.00	9.29	Daimler AG	OM502LA	1396.00	644	7338.57	0.190
126.48	5.27	Detroit Diesel	Series 60	1905.80	525	3393.14	0.562
126.48	5.27	Detroit Diesel	Series 60	1928.80	525	3393.14	0.568
126.48	5.27	Detroit Diesel	Series 60	390.93	525	3393.14	0.115
55.92	2.33	Detroit Diesel	Series 60	1110.67	525	1500.19	0.740
55.92	2.33	Detroit Diesel	Series 60	1124.07	525	1500.19	0.749
55.92	2.33	Detroit Diesel	Series 60	227.83	525	1500.19	0.152
75.12	3.13	Detroit Diesel	Series 60	83.61	525	2015.28	0.041
75.12	3.13	Detroit Diesel	Series 60	136.41	525	2015.28	0.068
75.12	3.13	Perkins	3362-1800	135.68	525	2015.28	0.067
75.12	3.13	Detroit Diesel	Series 60	871.22	525	2015.28	0.432
75.12	3.13	Detroit Diesel	Series 60	884.07	525	2015.28	0.439

Kern County Well Drilling Summary (2014 Data)

Hours	Days	Make	Model	Fuel Use (gal)	Rating (BHP)	Max Fuel Use (gal)	LOAD FACTOR
75.12	3.13	Detroit Diesel	Series 60	278.84	525	2015.28	0.138
40.56	1.69	Detroit Diesel	Series 60	347.87	525	1088.12	0.320
40.56	1.69	Detroit Diesel	Series 60	376.67	525	1088.12	0.346
40.56	1.69	Detroit Diesel	Series 60	128.51	525	1088.12	0.118
221.00	9.21	Detroit Diesel	Series 60	479.00	685	7735.77	0.062
146.00	6.08	Detroit Diesel	Series 2000	755.00	1005	7497.90	0.101
242.00	10.08	Detroit Diesel	Series 60	1480.00	500	6183.10	0.239
17.00		John Deere	4045-G70	83.30	99	86.00	0.969
17.00		Detroit Diesel	16V2000	474.42	1358	1179.69	0.402
17.00		Detroit Diesel	16V2000	432.68	1358	1179.69	0.367
17.00		Cummins	QSB5-G4	21.54	126	109.46	0.197
17.00		John Deere	4045-G70	83.30	99	86.00	0.969
86.88	3.62	Detroit Diesel	Series 60	105.82	525	2330.77	0.045
86.88	3.62	Detroit Diesel	Series 60	172.65	525	2330.77	0.074
86.88	3.62	Perkins	3362-1800	171.72	525	2330.77	0.074
86.88	3.62	Detroit Diesel	Series 60	1102.64	525	2330.77	0.473
86.88	3.62	Detroit Diesel	Series 60	1118.90	525	2330.77	0.480
86.88	3.62	Detroit Diesel	Series 60	352.91	525	2330.77	0.151
66.00	2.75	Detroit Diesel	Series 60	356.39	525	1770.62	0.201
66.00	2.75	Detroit Diesel	Series 60	135.10	525	1770.62	0.076
66.00	2.75	Detroit Diesel	Series 60	1595.62	525	1770.62	0.901
60.72	2.53	Detroit Diesel	Series 60	1527.17	525	1628.97	0.938
60.72	2.53	Detroit Diesel	Series 60	1545.59	525	1628.97	0.949
60.72	2.53	Detroit Diesel	Series 60	313.26	525	1628.97	0.192
90.48	3.77	Detroit Diesel	Series 60	575.96	525	2427.35	0.237
90.48	3.77	Detroit Diesel	Series 60	218.34	525	2427.35	0.090
90.48	3.77	Detroit Diesel	Series 60	2578.64	525	2427.35	1.062
38.88	1.62	Detroit Diesel	Series 60	1217.54	525	1043.05	1.167
38.88	1.62	Detroit Diesel	Series 60	1318.36	525	1043.05	1.264
38.88	1.62	Detroit Diesel	Series 60	449.79	525	1043.05	0.431
50.40	2.10	Detroit Diesel	Series 60	321.39	525	1352.11	0.238
50.40	2.10	Detroit Diesel	Series 60	121.83	525	1352.11	0.090
50.40	2.10	Detroit Diesel	Series 60	1438.91	525	1352.11	1.064
36.48	1.52	Detroit Diesel	Series 60	1086.24	525	978.67	1.110
36.48	1.52	Detroit Diesel	Series 60	969.02	525	978.67	0.990
36.48	1.52	Detroit Diesel	06Re140784	761.15	665	1239.65	0.614
17.00		John Deere	4045-G70	83.30	99	86.00	0.969
17.00		Detroit Diesel	16V2000	474.42	1358	1179.69	0.402
17.00		Detroit Diesel	16V2000	432.68	1358	1179.69	0.367
17.00		Cummins	QSB5-G4	21.54	126	109.46	0.197
17.00		John Deere	4045-G70	83.30	99	86.00	0.969
54.72	2.28	Detroit Diesel	Series 60	340.48	525	1468.00	0.232

Kern County Well Drilling Summary (2014 Data)

Hours	Days	Make	Model	Fuel Use (gal)	Rating (BHP)	Max Fuel Use (gal)	LOAD FACTOR
54.72	2.28	Detroit Diesel	Series 60	129.07	525	1468.00	0.088
54.72	2.28	Detroit Diesel	Series 60	1524.39	525	1468.00	1.038
33.60	1.40	Detroit Diesel	Series 60	89.16	525	901.40	0.099
33.60	1.40	Detroit Diesel	Series 60	145.47	525	901.40	0.161
33.60	1.40	Perkins	3362-1800	144.69	525	901.40	0.161
18.00		John Deere	4045-G70	88.20	99	91.06	0.969
18.00		Detroit Diesel	16V2000	502.33	1358	1249.09	0.402
18.00		Detroit Diesel	16V2000	458.14	1358	1249.09	0.367
18.00		Cummins	QSB5-G4	22.81	126	115.89	0.197
18.00		John Deere	4045-G70	88.20	99	91.06	0.969
41.52	1.73	Detroit Diesel	Series 60	264.11	525	1113.88	0.237
41.52	1.73	Detroit Diesel	Series 60	100.12	525	1113.88	0.090
41.52	1.73	Detroit Diesel	Series 60	1182.47	525	1113.88	1.062
62.40	2.60	Detroit Diesel	Series 60	1159.63	525	1674.04	0.693
62.40	2.60	Detroit Diesel	Series 60	1034.49	525	1674.04	0.618
62.40	2.60	Detroit Diesel	06Re140784	812.58	665	2120.45	0.383
41.28	1.72	Detroit Diesel	Series 60	1203.05	525	1107.44	1.086
41.28	1.72	Detroit Diesel	Series 60	1302.67	525	1107.44	1.176
41.28	1.72	Detroit Diesel	Series 60	444.44	525	1107.44	0.401
36.72	1.53	Detroit Diesel	Series 60	675.23	525	985.11	0.685
36.72	1.53	Detroit Diesel	Series 60	602.36	525	985.11	0.611
36.72	1.53	Detroit Diesel	06Re140784	473.15	665	1247.80	0.379
14.50		John Deere	4045-G70	71.05	99	73.35	0.969
14.50		Detroit Diesel	16V2000	404.65	1358	1006.21	0.402
14.50		Detroit Diesel	16V2000	369.05	1358	1006.21	0.367
14.50		Cummins	QSB5-G4	18.37	126	93.36	0.197
14.50		John Deere	4045-G70	71.05	99	73.35	0.969
104.88	4.37	Detroit Diesel	Series 60	598.23	525	2813.67	0.213
104.88	4.37	Detroit Diesel	Series 60	226.78	525	2813.67	0.081
104.88	4.37	Detroit Diesel	Series 60	2678.36	525	2813.67	0.952
38.40	1.60	Detroit Diesel	Series 60	1043.61	525	1030.18	1.013
38.40	1.60	Detroit Diesel	Series 60	1130.02	525	1030.18	1.097
38.40	1.60	Detroit Diesel	Series 60	385.54	525	1030.18	0.374
96.00	4.00	Detroit Diesel	Series 60	167.87	525	2575.44	0.065
96.00	4.00	Detroit Diesel	Series 60	273.89	525	2575.44	0.106
96.00	4.00	Perkins	3362-1800	272.42	525	2575.44	0.106
96.00	4.00	Detroit Diesel	Series 60	1749.24	525	2575.44	0.679
96.00	4.00	Detroit Diesel	Series 60	1775.04	525	2575.44	0.689
96.00	4.00	Detroit Diesel	Series 60	559.86	525	2575.44	0.217
42.00	1.75	Detroit Diesel	Series 60	1233.03	525	1126.76	1.094
42.00	1.75	Detroit Diesel	Series 60	1099.97	525	1126.76	0.976
42.00	1.75	Detroit Diesel	06Re140784	864.01	665	1427.22	0.605

Kern County Well Drilling Summary (2014 Data)

Hours	Days	Make	Model	Fuel Use (gal)	Rating (BHP)	Max Fuel Use (gal)	LOAD FACTOR
125.00	5.21	Daimler AG	OM460LA	176.00	450	2874.38	0.061
110.00	4.58	John Deere	4045L	660.00	99	556.48	1.186
86.00	3.58	Tognum America	12v2000	523.00	1050	4614.33	0.113
141.00	5.88	John Deere	4045HF285	846.00	137	987.10	0.857
129.00	5.38	Daimler AG	OM502LA	950.00	644	4245.18	0.224
60.00	2.50	Detroit Diesel	Series 60	1776.14	525	1609.65	1.103
60.00	2.50	Detroit Diesel	Series 60	1584.47	525	1609.65	0.984
60.00	2.50	Detroit Diesel	06Re140784	1244.58	665	2038.89	0.610
147.00	6.13	Daimler AG	OM460LA	226.00	450	3380.27	0.067
114.00	4.75	John Deere	4045L	609.00	99	576.71	1.056
116.00	4.83	Tognum America	12v2000	724.00	1050	6223.98	0.116
169.00	7.04	John Deere	4045HF285	1014.00	137	1183.12	0.857
158.00	6.58	Daimler AG	OM502LA	1058.00	644	5199.53	0.203
150.00	6.25	Daimler AG	OM460LA	209.00	450	3449.25	0.061
163.00	6.79	John Deere	4045L	978.00	99	824.60	1.186
119.00	4.96	Tognum America	12v2000	657.00	1050	6384.95	0.103
171.00	7.13	John Deere	4045HF285	1026.00	137	1197.12	0.857
176.00	7.33	Daimler AG	OM502LA	1129.00	644	5791.88	0.195
158.00	6.58	Detroit Diesel	Series 60	323.00	685	5530.55	0.058
100.00	4.17	Detroit Diesel	Series 2000	463.00	1005	5135.55	0.090
161.00	6.71	Detroit Diesel	Series 60	922.00	500	4113.55	0.224
25.20	1.05	Detroit Diesel	Series 60	1043.61	525	676.05	1.544
25.20	1.05	Detroit Diesel	Series 60	1130.02	525	676.05	1.672
25.20	1.05	Detroit Diesel	Series 60	385.54	525	676.05	0.570
38.88	1.62	Detroit Diesel	Series 60	82.95	525	1043.05	0.080
38.88	1.62	Detroit Diesel	Series 60	135.35	525	1043.05	0.130
38.88	1.62	Perkins	3362-1800	134.62	525	1043.05	0.129
33.60	1.40	Detroit Diesel	Series 60	985.63	525	901.40	1.093
33.60	1.40	Detroit Diesel	Series 60	1067.24	525	901.40	1.184
33.60	1.40	Detroit Diesel	Series 60	364.12	525	901.40	0.404
35.52	1.48	Detroit Diesel	Series 60	85.57	525	952.91	0.090
35.52	1.48	Detroit Diesel	Series 60	139.61	525	952.91	0.147
35.52	1.48	Perkins	3362-1800	138.86	525	952.91	0.146
16.50		John Deere	4045-G70	80.85	99	83.47	0.969
16.50		Detroit Diesel	16V2000	460.47	1358	1145.00	0.402
16.50		Detroit Diesel	16V2000	419.96	1358	1145.00	0.367
16.50		Cummins	QSB5-G4	20.91	126	106.24	0.197
16.50		John Deere	4045-G70	80.85	99	83.47	0.969
34.32	1.43	Detroit Diesel	Series 60	1029.12	525	920.72	1.118
34.32	1.43	Detroit Diesel	Series 60	1114.33	525	920.72	1.210
34.32	1.43	Detroit Diesel	Series 60	380.18	525	920.72	0.413
45.12	1.88	Detroit Diesel	Series 60	101.57	525	1210.46	0.084

Kern County Well Drilling Summary (2014 Data)

Hours	Days	Make	Model	Fuel Use (gal)	Rating (BHP)	Max Fuel Use (gal)	LOAD FACTOR
45.12	1.88	Detroit Diesel	Series 60	165.72	525	1210.46	0.137
45.12	1.88	Perkins	3362-1800	164.83	525	1210.46	0.136
61.20	2.55	Detroit Diesel	Series 60	1782.83	525	1641.84	1.086
61.20	2.55	Detroit Diesel	Series 60	1930.46	525	1641.84	1.176
61.20	2.55	Detroit Diesel	Series 60	658.63	525	1641.84	0.401
41.28	1.72	Detroit Diesel	Series 60	1188.99	525	1107.44	1.074
41.28	1.72	Detroit Diesel	Series 60	1060.68	525	1107.44	0.958
41.28	1.72	Detroit Diesel	06Re140784	833.15	665	1402.76	0.594
106.08	4.42	Detroit Diesel	Series 60	1946.89	665	3604.76	0.540
106.08	4.42	Detroit Diesel	Series 60	2374.43	525	2845.86	0.834
106.08	4.42	Detroit Diesel	Series 60	2480.44	525	2845.86	0.872
170.00	7.08	Detroit Diesel	60634MK33	257.00	500	4343.50	0.059
120.00	5.00	Detroit Diesel	Series 2000	446.00	1120	6867.84	0.065
185.00	7.71	Detroit Diesel	6063HV35	1954.00	685	6475.65	0.302
87.00	3.63	Cummins	QSL9-G3 NR3	60.90	363	1613.79	0.038
101.28	4.22	Detroit Diesel	Series 60	2008.70	665	3441.65	0.584
101.28	4.22	Detroit Diesel	Series 60	2449.81	525	2717.09	0.902
101.28	4.22	Detroit Diesel	Series 60	2559.18	525	2717.09	0.942
104.88	4.37	Detroit Diesel	Series 60	2039.60	665	3563.98	0.572
104.88	4.37	Detroit Diesel	Series 60	2487.50	525	2813.67	0.884
104.88	4.37	Detroit Diesel	Series 60	2598.55	525	2813.67	0.924
100.80	4.20	Detroit Diesel	Series 60	2091.11	665	3425.34	0.610
100.80	4.20	Detroit Diesel	Series 60	2550.32	525	2704.21	0.943
100.80	4.20	Detroit Diesel	Series 60	2664.17	525	2704.21	0.985
37.68	1.57	Detroit Diesel	Series 60	1100.92	525	1010.86	1.089
37.68	1.57	Detroit Diesel	Series 60	982.11	525	1010.86	0.972
37.68	1.57	Detroit Diesel	06Re140784	771.43	665	1280.42	0.602
89.76	3.74	Detroit Diesel	Series 60	1854.19	665	3050.18	0.608
89.76	3.74	Detroit Diesel	Series 60	2261.37	525	2408.04	0.939
89.76	3.74	Detroit Diesel	Series 60	2362.32	525	2408.04	0.981
44.16	1.84	Detroit Diesel	Series 60	1291.74	525	1184.70	1.090
44.16	1.84	Detroit Diesel	Series 60	1152.34	525	1184.70	0.973
44.16	1.84	Detroit Diesel	06Re140784	905.15	665	1500.62	0.603
130.80	5.45	Detroit Diesel	Series 60	1045.55	665	4444.78	0.235
130.80	5.45	Detroit Diesel	Series 60	1275.16	525	3509.04	0.363
130.80	5.45	Detroit Diesel	Series 60	1332.09	525	3509.04	0.380
91.92	3.83	Detroit Diesel	Series 60	1895.39	665	3123.58	0.607
91.92	3.83	Detroit Diesel	Series 60	2311.62	525	2465.98	0.937
91.92	3.83	Detroit Diesel	Series 60	2414.82	525	2465.98	0.979
210.00	8.75	Daimler AG	OM460LA	327.00	450	4828.95	0.068
193.00	8.04	John Deere	4045L	1158.00	99	976.37	1.186
179.00	7.46	Tognum America	12v2000	991.00	1050	9604.25	0.103

Kern County Well Drilling Summary (2014 Data)

Hours	Days	Make	Model	Fuel Use (gal)	Rating (BHP)	Max Fuel Use (gal)	LOAD FACTOR
235.00	9.79	John Deere	4045HF285	1410.00	137	1645.16	0.857
235.00	9.79	Daimler AG	OM502LA	1643.00	644	7733.47	0.212
66.00	2.75	Detroit Diesel	Series 60	1937.61	525	1770.62	1.094
66.00	2.75	Detroit Diesel	Series 60	1728.52	525	1770.62	0.976
66.00	2.75	Detroit Diesel	06Re140784	1357.72	665	2242.78	0.605
72.72	3.03	Detroit Diesel	Series 60	76.75	525	1950.90	0.039
72.72	3.03	Detroit Diesel	Series 60	125.22	525	1950.90	0.064
72.72	3.03	Perkins	3362-1800	124.55	525	1950.90	0.064
84.00	3.50	Detroit Diesel	Series 60	2069.72	525	2253.51	0.918
84.00	3.50	Detroit Diesel	Series 60	1846.37	525	2253.51	0.819
84.00	3.50	Detroit Diesel	06Re140784	1450.29	665	2854.45	0.508
96.00	4.00	Detroit Diesel	Series 60	15.68	525	2575.44	0.006
96.00	4.00	Detroit Diesel	Series 60	25.58	525	2575.44	0.010
96.00	4.00	Perkins	3362-1800	25.44	525	2575.44	0.010
184.00	7.67	Daimler AG	OM460LA	259.00	450	4231.08	0.061
80.00	3.33	John Deere	4045L	480.00	99	404.71	1.186
119.00	4.96	Tognum America	12v2000	763.00	1050	6384.95	0.119
216.00	9.00	John Deere	4045HF285	1290.00	137	1512.15	0.853
206.00	8.58	Daimler AG	OM502LA	1286.00	644	6779.13	0.190
136.00	5.67	Daimler AG	OM460LA	245.00	450	3127.32	0.078
144.00	6.00	John Deere	4045L	864.00	99	728.48	1.186
102.00	4.25	Tognum America	12v2000	673.00	1050	5472.81	0.123
169.00	7.04	John Deere	4045HF285	1014.00	137	1183.12	0.857
160.00	6.67	Daimler AG	OM502LA	1035.00	644	5265.34	0.197
87.84	3.66	Detroit Diesel	Series 60	618.06	665	2984.93	0.207
87.84	3.66	Detroit Diesel	Series 60	753.79	525	2356.53	0.320
87.84	3.66	Detroit Diesel	Series 60	787.44	525	2356.53	0.334
41.28	1.72	Detroit Diesel	Series 60	1908.25	525	1107.44	1.723
41.28	1.72	Detroit Diesel	Series 60	1702.33	525	1107.44	1.537
41.28	1.72	Detroit Diesel	06Re140784	1337.15	665	1402.76	0.953
150.00	6.25	Daimler AG	OM460LA	222.00	450	3449.25	0.064
78.00	3.25	John Deere	4045L	468.00	99	394.59	1.186
125.00	5.21	Tognum America	12v2000	714.00	1050	6706.88	0.106
169.00	7.04	John Deere	4045HF285	1014.00	137	1183.12	0.857
162.00	6.75	Daimler AG	OM502LA	1091.00	644	5331.16	0.205
180.00	7.50	Daimler AG	OM460LA	277.00	450	4139.10	0.067
168.00	7.00	John Deere	4045L	1008.00	99	849.90	1.186
124.00	5.17	Tognum America	12v2000	786.00	1050	6653.22	0.118
190.00	7.92	John Deere	4045HF285	1140.00	137	1330.13	0.857
185.00	7.71	Daimler AG	OM502LA	1346.00	644	6088.05	0.221
144.00	6.00	Detroit Diesel	Series 60	127.37	525	3863.16	0.033
144.00	6.00	Detroit Diesel	Series 60	207.81	525	3863.16	0.054

Kern County Well Drilling Summary (2014 Data)

Hours	Days	Make	Model	Fuel Use (gal)	Rating (BHP)	Max Fuel Use (gal)	LOAD FACTOR
144.00	6.00	Perkins	3362-1800	206.70	525	3863.16	0.054
120.00	5.00	Detroit Diesel	Series 60	227.96	525	3219.30	0.071
120.00	5.00	Detroit Diesel	Series 60	371.93	525	3219.30	0.116
120.00	5.00	Perkins	3362-1800	369.94	525	3219.30	0.115
97.44	4.06	Detroit Diesel	Series 60	290.01	525	2614.07	0.111
97.44	4.06	Detroit Diesel	Series 60	473.18	525	2614.07	0.181
97.44	4.06	Perkins	3362-1800	470.63	525	2614.07	0.180
97.44	4.06	Detroit Diesel	Series 60	3022.04	525	2614.07	1.156
97.44	4.06	Detroit Diesel	Series 60	3066.61	525	2614.07	1.173
97.44	4.06	Detroit Diesel	Series 60	967.23	525	2614.07	0.370
172.00	7.17	Daimler AG	OM460LA	245.00	450	3955.14	0.062
150.00	6.25	John Deere	4045L	900.00	99	758.84	1.186
102.00	4.25	Tognum America	12v2000	648.00	1050	5472.81	0.118
192.00	8.00	John Deere	4045HF285	1152.00	137	1344.13	0.857
167.00	6.96	Daimler AG	OM502LA	1109.00	644	5495.70	0.202
132.00	5.50	Daimler AG	OM460LA	206.00	450	3035.34	0.068
93.00	3.88	John Deere	4045L	558.00	99	470.48	1.186
84.00	3.50	Tognum America	12v2000	460.00	1050	4507.02	0.102
142.00	5.92	John Deere	4045HF285	852.00	137	994.10	0.857
139.00	5.79	Daimler AG	OM502LA	883.00	644	4574.27	0.193
186.00	7.75	Daimler AG	OM460LA	315.00	450	4277.07	0.074
150.00	6.25	John Deere	4045L	900.00	99	758.84	1.186
134.00	5.58	Tognum America	12v2000	820.00	1050	7189.77	0.114
264.00	11.00	John Deere	4045HF285	1539.00	137	1848.18	0.833
224.00	9.33	Daimler AG	OM502LA	1332.00	644	7371.48	0.181
115.00	4.79	Daimler AG	OM460LA	189.00	450	2644.43	0.071
123.00	5.13	John Deere	4045L	738.00	99	622.24	1.186
96.00	4.00	Tognum America	12v2000	613.00	1050	5150.88	0.119
122.00	5.08	John Deere	4045HF285	732.00	137	854.09	0.857
120.00	5.00	Daimler AG	OM502LA	953.00	644	3949.01	0.241
125.00	5.21	Daimler AG	OM460LA	198.00	450	2874.38	0.069
72.00	3.00	John Deere	4045L	332.00	99	364.24	0.911
99.00	4.13	Tognum America	12v2000	651.00	1050	5311.85	0.123
144.00	6.00	John Deere	4045HF285	864.00	137	1008.10	0.857
144.00	6.00	Daimler AG	OM502LA	1061.00	644	4738.81	0.224
151.00	6.29	Daimler AG	OM460LA	250.00	450	3472.25	0.072
138.00	5.75	John Deere	4045L	828.00	99	698.13	1.186
111.00	4.63	Tognum America	12v2000	599.00	1050	5955.71	0.101
166.00	6.92	John Deere	4045HF285	996.00	137	1162.12	0.857
155.00	6.46	Daimler AG	OM502LA	1042.00	644	5100.80	0.204
78.96	3.29	Detroit Diesel	Series 60	202.92	525	2118.30	0.096
78.96	3.29	Detroit Diesel	Series 60	219.73	525	2118.30	0.104

Kern County Well Drilling Summary (2014 Data)

Hours	Days	Make	Model	Fuel Use (gal)	Rating (BHP)	Max Fuel Use (gal)	LOAD FACTOR
78.96	3.29	Detroit Diesel	Series 60	74.97	525	2118.30	0.035
50.40	2.10	Detroit Diesel	Series 60	1463.95	525	1352.11	1.083
50.40	2.10	Detroit Diesel	Series 60	1585.17	525	1352.11	1.172
50.40	2.10	Detroit Diesel	Series 60	540.82	525	1352.11	0.400
16.00		John Deere	4045-G70	78.40	99	80.94	0.969
16.00		Tognum America	16V2000	464.00	1085	887.10	0.523
16.00		Detroit Diesel	16V2000	464.00	1354	1107.03	0.419
16.00		Cummins	QSB5-G3	13.50	145	118.55	0.114
65.04	2.71	Detroit Diesel	Series 60	1913.28	525	1744.86	1.097
65.04	2.71	Detroit Diesel	Series 60	2071.71	525	1744.86	1.187
65.04	2.71	Detroit Diesel	Series 60	706.82	525	1744.86	0.405
18.50		John Deere	4045-G70	90.65	99	93.59	0.969
18.50		Tognum America	16V2000	536.50	1085	1025.70	0.523
18.50		Detroit Diesel	16V2000	536.50	1354	1280.00	0.419
18.50		Cummins	QSB5-G3	15.61	145	137.08	0.114
14.50		John Deere	4045-G70	71.05	99	73.35	0.969
14.50		Tognum America	16V2000	420.50	1085	803.93	0.523
14.50		Detroit Diesel	16V2000	420.50	1354	1003.25	0.419
14.50		Cummins	QSB5-G3	12.24	145	107.44	0.114
15.00		John Deere	4045-G70	73.50	99	75.88	0.969
15.00		Tognum America	16V2000	435.00	1085	831.65	0.523
15.00		Detroit Diesel	16V2000	435.00	1354	1037.84	0.419
15.00		Cummins	QSB5-G3	12.66	145	111.14	0.114
72.24	3.01	Detroit Diesel	Series 60	2101.71	525	1938.02	1.084
72.24	3.01	Detroit Diesel	Series 60	2275.74	525	1938.02	1.174
72.24	3.01	Detroit Diesel	Series 60	776.43	525	1938.02	0.401
15.00		John Deere	4045-G70	73.50	99	75.88	0.969
15.00		Tognum America	16V2000	435.00	1085	831.65	0.523
15.00		Detroit Diesel	16V2000	435.00	1354	1037.84	0.419
15.00		Cummins	QSB5-G3	12.66	145	111.14	0.114
17.50		John Deere	4045-G70	85.75	99	88.53	0.969
17.50		Tognum America	16V2000	507.50	1085	970.26	0.523
17.50		Detroit Diesel	16V2000	507.50	1354	1210.81	0.419
17.50		Cummins	QSB5-G4	14.77	145	129.67	0.114
17.50		John Deere	4045-G70	85.75	99	88.53	0.969
17.50		Tognum America	16V2000	507.50	1085	970.26	0.523
17.50		Detroit Diesel	16V2000	507.50	1354	1210.81	0.419
17.50		Cummins	QSB5-G3	14.77	145	129.67	0.114
62.40	2.60	Detroit Diesel	Series 60	1600.00	525	1674.04	0.956
62.40	2.60	Detroit Diesel	Series 60	1427.34	525	1674.04	0.853
62.40	2.60	Detroit Diesel	06Re140784	1121.15	665	2120.45	0.529
24.00		John Deere	4045-G70	117.60	99	121.41	0.969

Kern County Well Drilling Summary (2014 Data)

	Hours	Days	Make	Model	Fuel Use (gal)	Rating (BHP)	Max Fuel Use (gal)	LOAD FACTOR
	24.00		Tognum America	16V2000	696.00	1085	1330.64	0.523
	24.00		Detroit Diesel	16V2000	696.00	1354	1660.55	0.419
	24.00		Cummins	QSB5-G3	20.26	145	177.83	0.114
	40.50		John Deere	4045-G70	198.45	99	204.89	0.969
	40.50		Cummins	QSK 19-P700	369.36	700	1448.69	0.255
	40.50		John Deere	4045-G70	198.45	99	204.89	0.969
	40.50		Caterpillar	C15	311.36	580	1200.34	0.259
3,000-5,000 ft	124.75		Detroit Diesel	Series 2000	13910.00	4485	28590.64	0.487
	368.00		Detroit Diesel	16V2000	29305.00	4062	76385.10	0.384
	307.75		Detroit Diesel	Series 2000	28392.00	4485	70531.22	0.403
LOAD FACTOR	436.50		Detroit Diesel	Series 2000	34948.00	4485	100038.60	0.349
0.356	48.50		Cummins	QSK 19-P700	442.32	700	1734.85	0.255
	48.50		John Deere	4045-G70	237.65	99	245.36	0.969
	48.50		Caterpillar	C15	372.87	580	1437.44	0.259
	44.50		Cummins	QSK 19-P700	405.84	700	1591.77	0.255
	44.50		John Deere	4045-G70	218.05	99	225.12	0.969
	44.50		Caterpillar	C15	342.12	580	1318.89	0.259
	49.50		Cummins	QSK 19-P700	451.44	700	1770.62	0.255
	49.50		John Deere	4045-G70	242.55	99	250.42	0.969
	49.50		Caterpillar	C15	380.56	580	1467.08	0.259
	48.00		John Deere	4045-G70	235.20	99	242.83	0.969
	48.00		Detroit Diesel	16V2000	1339.54	1358	3330.90	0.402
	48.00		Detroit Diesel	16V2000	1221.70	1358	3330.90	0.367
	48.00		Cummins	QSB5-G4	60.82	126	309.05	0.197
	48.00		John Deere	4045-G70	235.20	99	242.83	0.969
	368.00		Detroit Diesel	16V2000	30184.00	4062	76385.10	0.395
	288.00		Detroit Diesel	16V2000	26171.00	4062	59779.64	0.438
	68.50		John Deere	4045-G70	335.65	99	346.53	0.969
	68.50		Cummins	QSK 19-P700	624.72	700	2450.25	0.255
	68.50		John Deere	4045-G70	335.65	99	346.53	0.969
	68.50		Caterpillar	C15	526.63	580	2030.20	0.259
	524.50		Detroit Diesel	16V2000	34014.00	4062	108869.52	0.312
	44.50		John Deere	4045-G70	218.05	99	225.12	0.969
	44.50		Detroit Diesel	16V2000	1241.86	1358	3088.02	0.402
	44.50		Detroit Diesel	16V2000	1132.61	1358	3088.02	0.367
	44.50		Cummins	QSB5-G4	56.38	126	286.52	0.197
	44.50		John Deere	4045-G70	218.05	99	225.12	0.969
	40.50		John Deere	4045-G70	198.45	99	204.89	0.969
	40.50		Detroit Diesel	16V2000	1130.23	1358	2810.45	0.402
	40.50		Detroit Diesel	16V2000	1030.81	1358	2810.45	0.367
	40.50		Cummins	QSB5-G4	51.31	126	260.76	0.197
	40.50		John Deere	4045-G70	198.45	99	204.89	0.969

Kern County Well Drilling Summary (2014 Data)

	Hours	Days	Make	Model	Fuel Use (gal)	Rating (BHP)	Max Fuel Use (gal)	LOAD FACTOR
	329.25		Detroit Diesel	Series 2000	26713.00	4485	75458.67	0.354
	482.75		Detroit Diesel	16V2000	37202.00	4062	100203.55	0.371
	457.50		Detroit Diesel	16V2000	29997.00	4062	94962.45	0.316
	401.25		Detroit Diesel	16V2000	26725.00	4062	83286.74	0.321
	406.87		Detroit Diesel	16V2000	26714.00	4062	84452.58	0.316
	467.50		Detroit Diesel	Series 2000	35886.00	4485	107143.29	0.335
	487.50		Detroit Diesel	16V2000	35221.00	4062	101189.50	0.348
>5,000-10,000 ft	497.75		Detroit Diesel	Series 2000	40800.00	4485	114076.09	0.358
	484.25		Detroit Diesel	Series 2000	42522.00	4485	110982.11	0.383
	380.00		Detroit Diesel	Series 2000	45185.00	4485	87089.73	0.519
LOAD FACTOR	473.00		Detroit Diesel	Series 2000	43201.00	4485	108403.80	0.399
0.391	455.25		Detroit Diesel	Series 2000	46582.00	4485	104335.79	0.446
	511.25		Detroit Diesel	Series 2000	51931.00	4485	117170.06	0.443
	558.50		Detroit Diesel	Series 2000	40325.00	4485	127998.98	0.315
	493.50		Detroit Diesel	Series 2000	39288.00	4485	113102.06	0.347
	516.00		Detroit Diesel	Series 2000	43495.00	4485	118258.69	0.368
	545.00		Detroit Diesel	Series 2000	44214.00	4485	124905.01	0.354
	554.25		Detroit Diesel	Series 2000	35674.00	4485	127024.95	0.281
	411.50		Detroit Diesel	Series 2000	29466.00	4485	94309.01	0.312
	303.50	12.65	Caterpillar	3512C	31066.84	4431	68719.71	0.452
	470.25		Detroit Diesel	Series 2000	42392.00	4485	107773.54	0.393
	551.00		Detroit Diesel	Series 2000	49843.00	4485	126280.11	0.395
	419.75		Detroit Diesel	Series 2000	39500.00	4485	96199.77	0.411
	461.75		Detroit Diesel	Series 2000	35196.00	4485	105825.48	0.333
	218.25		Detroit Diesel	16V2000	17836.00	4062	45301.76	0.394
	198.00	8.25	Caterpillar	3512C	17399.77	4431	44831.97	0.388
	392.00		Detroit Diesel	Series 2000	37000.00	4485	89839.93	0.412
	533.50	22.23	Caterpillar	3512C	44338.25	4431	120797.26	0.367
	460.50	19.19	Caterpillar	3512C	46186.34	4431	104268.30	0.443
	516.25		Detroit Diesel	Series 2000	45722.00	4485	118315.98	0.386
	452.00	18.83	Caterpillar	3512C	35056.28	4431	102343.69	0.343
	411.00	17.12	Caterpillar	3512C	36027.67	4431	93060.31	0.387
	444.75	18.53	Caterpillar	3512C	42054.10	4431	100702.12	0.418
	413.75	17.24	Caterpillar	3512C	40713.00	4431	93682.97	0.435
	526.00	21.92	Caterpillar	3512C	53045.46	4431	119099.08	0.445
	315.00	13.13	Caterpillar	3512C	39894.00	4431	71323.59	0.559
	491.00	20.46	Caterpillar	3512C	41121.38	4431	111174.23	0.370
	501.50	20.90	Caterpillar	3512C	44791.50	4431	113551.69	0.394
	448.00		Detroit Diesel	16V2000	38213.00	4062	92990.55	0.411
	446.50	18.60	Caterpillar	3512C	32282.76	4431	101098.36	0.319
	637.50	26.56	Caterpillar	3512C	41450.00	4431	144345.36	0.287
	424.50	17.69	Caterpillar	3512C	45777.52	4431	96117.03	0.476

Kern County Well Drilling Summary (2014 Data)

	Hours	Days	Make	Model	Fuel Use (gal)	Rating (BHP)	Max Fuel Use (gal)	LOAD FACTOR
	493.00	20.54	Caterpillar	3512C	37928.36	4431	111627.08	0.340
	492.50	20.52	Caterpillar	3512C	42788.34	4431	111513.87	0.384
	397.50	16.56	Caterpillar	3512C	49345.09	4431	90003.58	0.548
	210.00	8.75	Caterpillar	3512C	41783.13	4431	47549.06	0.879
	480.25	20.01	Caterpillar	3512C	43363.84	4431	108740.17	0.399
	499.25	20.80	Caterpillar	3512C	44605.00	4431	113042.23	0.395
	459.50	19.15	Caterpillar	3512C	39546.60	4431	104041.87	0.380
	623.50	25.98	Caterpillar	3512C	35698.38	4431	141175.43	0.253
	494.50	20.60	Caterpillar	3512C	37907.54	4431	111966.72	0.339
	526.50	21.94	Caterpillar	3512C	39112.46	4431	119212.29	0.328
	296.50	12.35	Caterpillar	3512C	36527.30	4431	67134.75	0.544
	517.00	21.54	Caterpillar	3512C	40354.80	4431	117061.26	0.345
	641.00	26.71	Caterpillar	3512C	59234.00	4431	145137.85	0.408
	425.25	17.72	Caterpillar	3512C	44276.64	4431	96286.85	0.460
	214.00	8.92	Caterpillar	3512C	16117.86	4431	48454.76	0.333
	458.00	19.08	Caterpillar	3512C	43519.00	4431	103702.24	0.420
>10,000 ft	530.00	22.08	Caterpillar	3512C	31652.99	4431	120004.77	0.264
	547.00	22.79	Caterpillar	3512C	51656.37	4431	123853.98	0.417
	455.50	18.98	Caterpillar	3512C	48511.87	4431	103136.18	0.470
LOAD FACTOR	601.50	25.06	Caterpillar	3512C	40190.87	4431	136194.10	0.295
0.393	462.00	19.25	Caterpillar	3512C	42336.87	4431	104607.93	0.405
	386.00	16.08	Caterpillar	3512C	49653.02	4431	87399.70	0.568
	575.00	23.96	Caterpillar	3512C	35317.82	4431	130193.86	0.271
	554.50	23.10	Caterpillar	3512C	48889.58	4431	125552.16	0.389
	424.00	17.67	Caterpillar	3512C	42976.33	4431	96003.82	0.448
	307.00	12.79	Caterpillar	3512C	41014.85	4431	69512.20	0.590
	568.00	23.67	Caterpillar	3512C	43123.91	4431	128608.89	0.335
	134.00	5.58	Caterpillar	3512C	15396.00	4431	30340.83	0.507
	576.96	24.04	Caterpillar	3512C	32801.67	4431	130637.65	0.251
	446.50	18.60	Caterpillar	3512C	32043.89	4431	101098.36	0.317
	399.75	16.66	Caterpillar	3512C	57289.89	4431	90513.03	0.633
	493.50	20.56	Caterpillar	3512C	45601.00	4431	111740.29	0.408
	552.00	23.00	Caterpillar	3512C	41294.54	4431	124986.10	0.330
	445.00	18.54	Caterpillar	3512C	38820.00	4431	100758.72	0.385
	536.00	22.33	Caterpillar	3512C	22455.71	4431	121363.32	0.185
	663.00	27.63	Caterpillar	3512C	50269.36	4431	150119.18	0.335
	587.00	24.46	Caterpillar	3512C	44906.60	4431	132910.95	0.338
	569.00	23.71	Caterpillar	3512C	47647.00	4431	128835.31	0.370
	532.50	22.19	Caterpillar	3512C	56195.48	4431	120570.83	0.466
	555.00	23.13	Caterpillar	3512C	41357.26	4431	125665.38	0.329
	433.44	18.06	Caterpillar	3512C	50079.00	4431	98141.26	0.510
	228.72	9.53	Caterpillar	3512C	25392.45	4431	51787.72	0.490

Kern County Well Drilling Summary (2014 Data)

Hours	Days	Make	Model	Fuel Use (gal)	Rating (BHP)	Max Fuel Use (gal)	LOAD FACTOR
590.64	24.61	Caterpillar	3512C	66473.79	4431	133735.13	0.497
640.00	26.67	Caterpillar	3512C	62877.00	4431	144911.42	0.434
577.00	24.04	Caterpillar	3512C	53959.26	4431	130646.71	0.413
644.00	26.83	Caterpillar	3512C	40808.94	4431	145817.12	0.280
655.92	27.33	Caterpillar	3512C	57837.33	4431	148516.10	0.389
574.56	23.94	Caterpillar	3512C	49335.14	4431	130094.23	0.379
561.00	23.38	Caterpillar	3512C	56855.00	4431	127023.92	0.448
543.60	22.65	Caterpillar	3512C	66261.24	4431	123084.14	0.538
600.96	25.04	Caterpillar	3512C	65875.00	4431	136071.83	0.484

KERN COUNTY
OPERATOR WELL DRILLING SURVEY SUMMARY
(2014 data)

The Kern County operator well drilling survey summary was based on drilling equipment, fuel use, drilling times, and drilling depth information for 2014 based upon the following typical drill rig configurations:

For wells depths 5,000 feet or less, typical drilling rig configuration included main engines at a rated capacity of approximately 1,800 hp with:

- Combination of three (3) of the following engine types:
    - Detroit Diesel Series 60 (525 hp)
    - Detroit Diesel Model 6063MK33 (475 hp)
    - Detroit Diesel Model 6063HK33 (665 hp)
    - Detroit Diesel Model 6063HV33 (665 hp)
    - Detroit Diesel Model 6063HV35 (685 hp)

  or

- Combination of two (2) of the following engine types:
    - Detroit Diesel Series 2000 (1495 hp)
    - Detroit Diesel Model 16V2000 (1354 hp)
    - Tognum America Model 16V2000 (1200 hp)

For well depths greater than 5,000 feet, typical drilling rig configuration included main engines at a rated capacity of approximately 4,400 hp with:

- Three (3) of the following engine types:
    - Caterpillar Model 3512D (1477 hp)
    - Detroit Diesel Model 16V2000 (1354 hp)
    - Detroit Diesel Series 2000 (1495 hp)

The summary considered rig data that was documented in a variety of analytical formats by the operators. To optimize submitted data while accomplishing the objectives of the survey, the following actions were taken:

- Data from submitters for engines with rated horsepower of less than 99 hp was <u>not</u> included in the summary.

- Data from a rig configuration that did not align with the typical rig configurations identified above was <u>not</u> included in the summary. Specifically, there was only one instance where a rig identified an additional engine (i.e., four Detroit Diesel engines rather than the typical three Detroit Diesel engines). The fuel use and drilling times for this rig were similar to data submitted for a typical rig configuration, but engine load factors for this rig were obviously much lower (clearly because there was more rated unused capacity on the rig).

- Because the raw data for fuel use and hours was received in varying formats, the de-identified survey summary includes line items that represent fuel use and hours of drilling for either a single engine or for combined engines of identical types on a single rig. For this reason, data may have been entered into the summary reflecting either: (1) the duration of an individual drilling event, or (2) over a reporting month. In several cases, drilling depth was also estimated based on averaging. Despite these complexities, the total fuel use, total drilling times, and placement in drilling depth categories (all key factors in identifying engine load by well depth interval) is a comparable representation that is consistent with the raw data.

- Overall Engine Load Factors for each depth interval has been calculated using the USEPA diesel fuel consumption factor of 0.0511 gal/bhp-hr.

APPENDIX C

Oil & Gas Major Source Identification for NOx and VOC

Title-V Oil and Gas Production Companies
2012 Baseline Criteria Pollutant Emissions Reported to the SJVAPCD

SJVAPCD Facility ID	Facility Name for Company	Permit Count	NOx TPY	VOC TPY	CO TPY	SOx TPY	PM10 TPY	PM25 TPY
S-1135	AERA ENERGY LLC	61	125.62	942.16	61.46	2.68	26.68	26.68
S-1543	AERA ENERGY LLC	19	1.52	3.59	12.22	0.35	0.34	0.34
S-1547	AERA ENERGY LLC	360	280.30	1,416.81	49.87	14.68	60.26	60.26
S-1548	AERA ENERGY LLC	63	4.24	209.75	19.69	0.40	0.24	0.24
S-1250	BADGER CREEK LIMITED	1	12.82	0.10	4.22	0.16	1.31	1.31
S-2624	BELLAIRE OIL COMPANY	27	0.00	3.31	0.00	0.00	0.00	0.00
S-1246	BERRY PETROLEUM COMPANY	58	66.74	119.43	7.20	69.34	56.41	56.41
S-2265	BERRY PETROLEUM COMPANY	1	22.69	21.07	70.89	5.85	19.24	19.24
S-3585	BERRY PETROLEUM COMPANY	13	12.83	83.79	7.28	6.42	12.40	12.40
S-0040	CENTRAL RESOURCES, INC.	18	4.50	7.29	23.53	0.03	0.09	0.09
S-0723	CHALK CLIFF LIMITED	1	12.62	0.67	52.04	0.16	1.29	1.29
S-3317	CHEVRON U S A INC	2	2.09	0.00	12.08	0.00	0.83	0.83
S-1131	CHEVRON USA INC	122	24.17	51.84	8.80	0.68	101.91	101.91
S-1127	CHEVRON USA INC	45	22.84	45.29	7.63	0.30	22.09	22.09
S-1128	CHEVRON USA INC	117	114.41	130.27	131.29	77.60	88.83	88.83
S-1129	CHEVRON USA INC	18	9.44	5.83	3.79	0.24	2.00	2.00
S-1141	CHEVRON USA INC	72	54.17	202.71	1.09	11.67	139.37	139.37
S-1398	CHEVRON USA INC	1	0.00	0.78	0.00	0.00	0.00	0.00
S-2010	CHEVRON USA INC	39	0.50	17.30	0.02	0.03	0.33	0.33
S-0055	CHEVRON USA INC LOST HILLS GP	6	0.35	0.15	2.33	0.00	0.03	0.03
S-1119	DOUBLE C LIMITED	2	0.70	0.02	2.66	0.01	0.07	0.07
S-1328	EXXON MOBIL CORPORATION	8	7.77	1.20	0.83	15.78	2.46	2.46
S-1118	HIGH SIERRA LIMITED	2	0.77	0.07	2.93	0.01	0.08	0.08
S-1120	KERN FRONT LIMITED	2	0.63	0.01	2.25	0.01	0.04	0.04
S-0088	KERN RIVER COGENERATION CO	8	97.84	0.00	225.70	2.55	35.92	35.92
S-0172	LIVE OAK LIMITED	1	17.45	0.16	17.51	0.27	0.64	0.64
S-1703	MACPHERSON OIL COMPANY	31	1.51	4.91	2.15	0.22	0.43	0.43
S-1251	MCKITTRICK LIMITED	1	7.48	0.06	13.07	0.10	1.33	1.33
S-2592	MID-SET COGENERATION COMPANY	2	20.04	0.00	9.72	0.20	8.80	8.80
S-0091	MT POSO COGENERATION COMPANY	6	64.60	0.00	34.20	17.20	9.74	9.74
S-6848	OCCIDENTAL OF ELK HILLS, INC	2	0.00	0.18	0.00	0.00	0.00	0.00

SJVAPCD Facility ID	Facility Name for Company	Permit Count	NOx TPY	VOC TPY	CO TPY	SOx TPY	PM10 TPY	PM25 TPY
S-0382	OCCIDENTAL OF ELK HILLS, INC.	152	68.45	188.57	301.07	0.08	0.87	0.87
S-1216	OCCIDENTAL OF ELK HILLS, INC.	64	0.09	0.13	0.19	0.00	0.25	0.25
S-2234	OCCIDENTAL OF ELK HILLS, INC.	152	311.77	134.60	1,021.31	3.67	1.53	1.53
S-1372	PLAINS EXPLORATION & PRODUCTION COMPANY	119	85.47	56.40	50.33	87.55	74.72	74.72
S-0883	RIO BRAVO POSO	14	50.19	0.62	61.03	16.85	4.59	4.59
S-1114	SENECA RESOURCES	22	18.68	70.32	1.98	2.38	9.23	9.23
S-3755	SENECA RESOURCES	15	0.67	3.35	1.28	0.46	0.62	0.62
S-0511	SYCAMORE COGENERATION CO	7	98.93	0.00	154.40	3.08	20.74	20.74
S-3088	TRC CYPRESS GROUP LLC	5	3.61	1.94	6.81	3.32	4.30	4.30
S-2622	TRC OPERATING COMPANY INC	4	0.50	0.57	0.00	0.10	0.26	0.26
S-1326	VINTAGE PRODUCTION CALIFORNIA LLC	75	27.35	22.12	72.80	9.96	14.36	14.36
S-1327	VINTAGE PRODUCTION CALIFORNIA LLC	40	18.98	13.72	25.23	3.85	9.10	9.10
S-1737	VINTAGE PRODUCTION CALIFORNIA LLC	29	8.64	65.33	47.04	0.13	2.54	2.54
S-1738	VINTAGE PRODUCTION CALIFORNIA LLC	76	8.98	51.26	84.22	0.00	2.11	2.11
S-8282	VINTAGE PRODUCTION CALIFORNIA LLC	50	0.00	0.90	0.00	0.00	0.00	0.00
Total Baseline Emissions from Title-V Operators		------	1,692.9650	3,878.5796	2,614.1597	358.3599	738.4023	738.4023
Allowance for Emissions from Non-Title-V Operators (+10%)		------	169.2965	387.8580	261.4160	35.8360	73.8402	73.8402
Total Baseline Emission of Criteria Pollutants (Tons/Year)		------	1,862.2615	4,266.4375	2,875.5756	394.1959	812.2425	812.2425
Total Baseline Emission of Criteria Pollutants (Tons/Day)		------	5.0881	11.6569	7.8568	1.0770	2.2192	2.2192

APPENDIX D

Sample VERAs

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

GOVERNING BOARD

J. Steven Worthley, Chair
Supervisor, Tulare County

Leroy Ornellas, Vice Chair
Supervisor, San Joaquin County

Tony Barba
Supervisor, Kings County

Raji Brar
Councilmember, City of Arvin

Judith G. Case
Supervisor, Fresno County

Ronn Dominici
Supervisor, Madera County

Jon McQuiston
Supervisor, Kern County

Michael G. Nelson
Supervisor, Merced County

William O'Brien
Supervisor, Stanislaus County

Henry T. Perea
Councilmember, City of Fresno

Chris Vierra
Councilmember, City of Ceres

Seyed Sadredin
Executive Director/
Air Pollution Control Officer

Northern Region Office
4800 Enterprise Way
Modesto, CA 95356-8718
(209) 557-6400
FAX (209) 557-6475

Central Region Office
1990 East Gettysburg Avenue
Fresno, CA 93726-0244
(559) 230-6000
FAX (559) 230-6061

Southern Region Office
2700 M Street, Suite 275
Bakersfield, CA 93301-2373
(661) 326-6900
FAX (661) 326-6985

www.valleyair.org

DATE: October 25, 2007

TO: SJVUAPCD Governing Board

FROM: Seyed Sadredin, Executive Director/APCO
Project Coordinator: David Warner

RE: **APPROVE VOLUNTARY EMISSION REDUCTION AGREEMENT WITH CANYONS LLC, TO RECEIVE FUNDS IN THE AMOUNT OF $5,357,000 FOR THE PURPOSE OF MITIGATING AIR QUALITY IMPACTS OF THE PROPOSED "THE CANYONS" DEVELOPMENT PROJECT**

RECOMMENDATION:

1. Approve and authorize the Chair to sign the Voluntary Emissions Reduction Agreement with Canyons LLC.
2. Authorize staff to identify, fund and manage air quality projects that will mitigate the net project criteria pollutant impacts as determined in the approved Air Quality Impact Assessment for the proposed project.

BACKGROUND:

Since 2005, the District has entered into Voluntary Emission Reduction Agreements (VERA) with developers to mitigate the air impacts of their development projects. These agreements benefit air quality by achieving emission reductions in excess of District Rule 9510 (Indirect Source Review) requirements, applicable to development projects. In 2006 – 2007, the District entered into four VERA, which generated $11,829,250 in revenues. Projects funded by the District achieved total emission reductions of 824 tons of NOx, 33.7 tons of PM10 and 95 tons of VOC. The agreement before you today is similar to the previous agreements approved by your Board.

Representatives of Canyons LLC, have approached the District with a request for assistance in mitigating the significant air quality impacts of their development project proposed in the City of Bakersfield. Per the

Agreement, the District will review and identify acceptable air quality impact analysis methods and procedures, and verify and manage consultant provided emission reduction projects or, if those projects prove insufficient, identify and manage other emission reduction projects to fully mitigate the net air quality impacts as identified in a District approved Air Quality Impact Assessment.

The proposed "The Canyons" Development Project entails the development of a mixed-use residential community on approximately 889 acres that includes: 1,380 single-family residential dwellings, 120 condominiums/townhouses; 8 acres of commercial development; a 28.18-acre site for semi-public recreation; a private recreation center; three public parks totaling 17.33 acres; 9 miles of public trails, 2 miles of public bike path; approximately 42 acres of maintained common area and approximately 284 acres of open space.

DISCUSSION:

Consultants for Canyons LLC provided the District with a preliminary Air Quality Impact Assessment (AQIA) of the project's impact on air quality. District staff has not received the final AQIA for review, so the amount of emission reductions is based on the developer's preliminary estimate of emissions. Upon receiving the final AQIA, District staff will verify the correctness of the emissions estimates for the project. The contract contains provisions that if upon completion of staff's review the amount of emission reductions increases or the funding is inadequate to purchase the reductions, District will notify Canyons LLC that additional funds are necessary to achieve full mitigation of the project's emissions. The final AQIA will address criteria pollutant emissions, public health/hazard impacts, carbon monoxide (CO) hotspots impacts, construction impacts, and mitigation.

One of the prerequisites of entering into a Voluntary Emission Reduction Agreement with the District is to include all feasible measures to reduce emissions at the project site. Construction fugitive dust emissions should be mitigated onsite by complying with the requirements specified in the District's Regulation VIII and with the use of cleaner construction equipment when available. Including design features that facilitate and encourage alternate forms of transportation and increase energy efficiency can mitigate operational emissions. Specific onsite operational mitigation features agreed to by Canyons LLC are provided in the contract.

After accounting for the benefit of the onsite mitigation measures, Canyons LLC will provide monies to the District to fund projects that will reduce oxides of nitrogen (NOx), reactive organic gases (ROG) and fine particulate matter (PM10) emissions off-site. Given our experience in administering grants for emission reduction projects, with adequate funding, the District can bring about sufficient emission reductions from existing sources of emissions to fully and permanently mitigate the net air emissions from this development project. The emission reduction projects will permanently reduce emissions, because even

after the useful life of the project has ended, the funded equipment, device or vehicle will be replaced with equipment, devices or vehicles that are as clean or cleaner than the original.

Canyons LLC has not provided the District a list of potential off-site emission reduction projects. The dollar value of this agreement is based on the emissions, as estimated by Canyons LLC, multiplied times the 2008 emission reduction schedule contained in Section 1.7.1 of the Agreement. Per the Agreement, Canyons LLC may propose emission reduction projects, and therefore, actual funds received by the District may be less than estimated. Projects proposed by Canyons LLC will be verified by the District to ensure that reductions are valid and each project will be field inspected by the District prior to and after installation. The District will also perform long term monitoring of the projects to ensure the emissions remain in place during the period of the agreement. Whether Canyons LLC or the District identifies projects, all will be under contract with the District to ensure their enforceability.

The preliminary AQIA prepared for the project provided the following criteria pollutant emission estimates:

ROG	36.11 tons/year
NOx	24.61 tons/year
PM10	13.06 tons/year
Total	73.78 tons/year

As presented in the following table, the District would receive an estimated $5,357,000. This amount includes a four percent (4%) administrative fee to cover the District's costs of administering the program.

Pollutant	Tons	2008 Rate	Amount
ROG	36.11	$65,450	$2,363,400
NOx	24.61	$65,450	$1,610,725
PM10	13.06	$90,110	$1,176,837

Total	$5,150,962
Admin. Fee (4%)	$206,038
Grand Total	$5,357,000

The total funds identified in this item reflect the District's and developer's best estimate, and may increase in the future if it becomes necessary to reduce more emissions due to projects costing more than expected or be reduced if projects are obtained at a lower cost than anticipated.

All funds collected will be used for emission reduction projects that will fully mitigate the net air quality impact of criteria pollutants as identified in the approved assessment from the proposed project. The emission reduction projects will be in place contemporaneous with the development and will provide localized air quality benefits in the vicinity of the project. The District will establish a separate budgetary account for these

mitigation funds, and will provide routine tracking and status reports documenting fund expenditures and the emissions reductions achieved for the development project.

FISCAL IMPACT:

Under the terms of the agreement, Canyons LLC is expected to pay to the District approximately a total of $5,150,962 in mitigation fees and $206,038 in administrative fees for a total of $5,357,000. Canyons LLC shall pay the mitigation fees in sufficient amounts to fully mitigate each phase of the project. Fees must be paid before generating emissions for the respective project phases. The agreement also contains provisions for the District to recover costs for staff time spent and materials used by the District in the administration of this Agreement. The District's 2007-08 Budget contains adequate revenue estimates and appropriations to facilitate the receipt of mitigation funds from Canyons LLC and for expenditure of those funds in accordance with the Voluntary Emission Reduction Agreement.

Attachments:
Attachment A – Canyons LLC – "The Canyons" Air Quality Mitigation Agreement (19 pages)

San Joaquin Valley Air Pollution Control District
Meeting of the Governing Board
Thursday, October 25, 2007

APPROVE VOLUNTARY EMISSION REDUCTION AGREEMENT WITH CANYONS LLC, TO RECEIVE FUNDS IN THE AMOUNT OF $5,357,000 FOR THE PURPOSE OF MITIGATING AIR QUALITY IMPACTS OF THE PROPOSED "THE CANYONS" DEVELOPMENT PROJECT

Attachments:

Attachment A – Canyons LLC – "The Canyons" Air Quality Mitigation Agreement (19 pages)

The above attachment has been included with the agenda packets distributed to members of the Governing Board. It has not been included with other agenda packets. A copy of this document is available for review and/or purchase from the San Joaquin Valley Unified Air Pollution Control District.

VOLUNTARY EMISSION REDUCTION AGREEMENT

This Voluntary Emission Reduction Agreement ("Agreement") is entered into as of _____, 2007 by and between John M. Antongiovanni Trust ("Developer") and the SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT, an air pollution control district formed pursuant to California Health and Safety Code section 40150, et seq. ("District").

RECITALS

WHEREAS, Developer is presently seeking governmental approval of land use entitlements ("Entitlements") which will permit the development of Silver Creek Plaza Project located in the City of Bakersfield, California, as more particularly described on Exhibit A attached hereto (the "Project"); and

WHEREAS, the Project incorporates the design features specified on Exhibit B attached hereto ("Emission Reduction Design Features"), in order to significantly reduce the air quality impacts associated with the Project; and

WHEREAS, despite incorporation of the Emission Reduction Design Features, without additional emission reductions, the Project would cause impacts on air quality within the geographical boundaries of the San Joaquin Valley Unified Air Pollution Control District, as depicted on Exhibit C attached hereto (the "District Boundaries"); and

WHEREAS, Developer anticipates that mitigation of impacts on air quality resulting from the Project will be either required as a condition to the approval of Developer's Entitlements, or voluntarily imposed by Developer as a means of reducing such impacts; and

WHEREAS, Developer desires to fully comply with all requirements of the California Environmental Quality Act codified at California Public Resources Code section 21000, et seq. ("CEQA"), including all requirements relating to the mitigation of air quality impacts arising from or in connection with the Project; and

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WHEREAS, District is an air pollution control district formed by the counties of Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus and Tulare, pursuant to California Health and Safety Code section 40150, et seq.; and

WHEREAS, District is responsible for developing and implementing air quality control measures within the District Boundaries, including air quality control measures for stationary sources, transportation sources, and indirect sources; and

WHEREAS, District has determined that with appropriate funding, District can bring about a reduction of emissions from certain projects in types and in sufficient quantities to fully mitigate the net air quality criteria pollutant impacts of the Project as quantified in the Verified Air Quality Assessment (as defined in Section 2.2 below) ("Project's Air Impact"); and

WHEREAS, Developer and District desire to enter into this Agreement in order to develop and implement air quality control measures which will fully mitigate the Project's Air Impact to the extent that the development of such Project will result in no net increase in criteria pollutant emissions over the criteria pollutant emissions which would otherwise exist without the development thereof.

AGREEMENT

NOW THEREFORE, in exchange of the mutual covenants herein contained, Developer and District hereby agree as follows:

1. **Emission Reduction by Developer and District.**

1.1. **Emission Reduction Proposals**. Developer shall identify and propose to District opportunities to reduce emissions to fully mitigate Project's Air Impact, including but not limited to opportunities for removal or retrofitting of stationary, transportation, indirect, and/or mobile pollution source equipment, and/or other opportunities therefore (each, an "**Emission Reduction Proposal**"). Each Emission Reduction Proposal shall be submitted in writing to District, using District approved forms, and shall contain a representation by Developer that the owner/operator of the identified Pollution Source Equipment has expressed interest in entering into a written

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funding agreement with District in District's then standard form ("**Funding Agreement**") requiring removal or replacement of the identified equipment with new equipment under District's "Heavy Duty Engine Emission Reduction Incentive Program", or another emission reduction program adopted by District ("**District Emission Reduction Program**"). Developer shall submit Emission Reduction Proposals to District in sufficient amounts to fully mitigate emissions from each distinct phase of the project. For each phase of the project, Developer shall submit Emission Reduction Proposals to District no later than application for grading permits for, and before generating emissions from, that phase. Any Emission Reduction Shortfall for a given phase shall be addressed according to Section 1.7.2 of this Agreement.

1.2. **District's Verification of Emission Reduction**. As quickly as practicable upon Developer's submission to District of an Emission Reduction Proposal, District shall determine the types and quantities of permanent reduction in emissions which would be realized by the proposed removal or retrofit and shall advise Developer of such determination in writing ("**Emission Reduction Verification**") thereby verifying that in District's considered opinion the removal or retrofit proposed in the Emission Reduction Proposal would result in permanent emission reduction in the locality of the Project in the types and quantities so determined by District.

1.3. **Emission Reduction Proposal Advance**. Developer shall advance to District, on the date of submittal of each Developer's Emission Reduction Proposal, a monetary sum equal to the total estimated cost (as specified in each Developer's Emission Reduction Proposal), until sufficient advance is received by District to fully mitigate the Project's Air Impact ("**Emission Reduction Proposal Advance**").

1.4. **Funding Agreements**. As soon as practicable after District's receipt of Developer's Emission Reduction Proposal Advance, District shall use diligent efforts to enter into Funding Agreements with the owners and/or operators of the pollution source equipment identified in Developer's Emission Reduction Proposal, thereby providing for the removal and/or retrofit of all of such Pollution Source Equipment, and

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providing for District's payment (from the Emission Reduction Proposal Advance) to such owner or operator, of an amount equal to the estimated cost of such opportunity, as specified in Developer's Emission Reduction Proposals. District shall use diligent efforts to enter into Funding Agreements with all of the owners or operators identified in Developer's Emission Reduction Proposals within one hundred eighty (180) days following District's receipt of a complete Emission Reduction Proposal and the Emission Reduction Proposal Advance from Developer.

1.5. **Use of Emission Reduction Proposal Advance.** District shall use the Emission Reduction Proposal Advance to meet its monetary obligations under the Funding Agreements that District shall enter into with the owners of the Pollution Source Equipment identified in Developer's Emission Reduction Proposals.

1.6. **Use of Unused Portions of Emission Reduction Proposal Advance.** In the event Developer is unable to submit to District Emission Reduction Proposals providing for emission reduction in the types and quantities necessary to fully mitigate the Project's Air Impact, or in the event District is unable to enter into Funding Agreements with any of the owners or operators identified in Developer's Emission Reduction Proposals, District shall notify Developer in writing of the additional emission reductions needed to fully mitigate the Project's Air Impact, and Developer shall have a reasonable time, not to exceed one hundred eighty (180) days within which to submit to District additional or supplemental Emission Reduction Proposals in order to provide the necessary additional emission reduction.

1.7. **Unused Advance / Emission Reduction Shortfall / Additional Payment.**

1.7.1. **Unused Advance.** If, despite District's diligent efforts to enter into Funding Agreements with all of the owners or operators identified in Developer's Emission Reduction Proposals (and, if applicable, supplemental Emission Reduction Proposals submitted by Developer), District is unable to enter into Funding Agreements sufficient to fully mitigate the Project's Air Impact, then District shall use any unused portion of Developer's Emission Reduction Proposal Advance to fund

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emission reduction opportunities to mitigate the balance of the Project's Air Impact at District's actual cost of doing so, provided that such actual costs shall not exceed the costs set forth in the following Emission Reduction Cost Schedule:

Emission Reduction Cost Schedule		
Year Paid	NOx or ROG ($/ton)	PM10 ($/ton)
2007	$49,700	$55,940
2008	$65,450	$90,110
Beyond	Prevailing Costs	Prevailing Costs

District is of the considered opinion that the emission reductions listed in the above schedule can be achieved at the corresponding times and costs shown in said schedule. If, at the time of invoicing, the District has not identified Prevailing Costs for post-2008 payments, 2008 costs shall apply.

1.7.2. **Emission Reduction Shortfall/Additional Payment**. In the event the emission reduction brought about by the Funding Agreements entered into between District and the owners or operators identified in Developer's Emission Reduction Proposals (and, if applicable supplemental Emission Reduction Proposals), and that brought about pursuant to Section 1.7.1 above, are not sufficient to fully mitigate the Project's Air Impact ("**Emission Reduction Shortfall**"), then Developer shall be credited for the emission reduction brought about as a result of Funding Agreements entered into between District and the owners or operators identified in Developer's Emission Reduction Proposals and for the emission reduction brought about pursuant to Section 1.7.1 above, and Developer thereafter shall deposit with District, within 30 days of receiving notice of the Emission Reduction Shortfall from District, an additional amount equal to the product of (i) District's cost per ton of emission reduction as shown in the Emission Reduction Cost Schedule set forth in Section 1.7.1 above, multiplied by (ii) the total number of tons of emission reduction necessary to fully mitigate the Project's Air Impact less the total number of tons of emission reduction so credited to Developer. However, in no case shall the amount paid to District and the

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amount of emission reductions achieved per this agreement be less than the amount that would be paid to District or the amount of emission reductions that would be required for this Project according to District Rule 9510 (Indirect Source Review). To allow verification of equivalency of emission reductions and off-site mitigation fee amounts, according to District Rule 9510, Developer shall submit to District an ISR Air Impact Assessment Application, using District forms, no later than concurrent with the Developer's submission of the air quality assessment, as set forth in Section 2.2.

1.9 **Time of Use**. Any emission reductions brought about by this Agreement prior to the date Developer receives final approval of the Project from all applicable Governmental Authorities shall be credited to the total amount of emission reductions achieved per this agreement.

1.10. **District's Obligation**. The monies paid by Developer under this Agreement shall be used by District to obtain localized emission reductions in the types and quantities necessary to fully mitigate the Project's Air Impact as quantified in the Verified Air Quality Assessment. If necessary, District shall assist Developer in securing emission reductions, consistent with the provisions established in Section 1.7.2.

1.11. **Developer's Obligation**. District acknowledges that, if the Project is not finally approved so that such development is allowed to proceed, Developer has no obligations under this Agreement relative to the respective Project. Developer acknowledges that it must satisfy the terms of this Agreement in order to develop the Project.

2. **CEQA Compliance/Full Mitigation**. For and in exchange of Developer's payment of funds pursuant to Section 1 above, District shall ensure, by way of entering into, funding and enforcing the Funding Agreements in accordance with the provisions of Section 1.4 above, that the Project's Air Impact is fully mitigated, such that the Project, combined with the emission reductions brought about in accordance with Section 1 above, shall result in no net increase in air quality impacts over those air

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quality impacts which would otherwise exist without the development of such Project. For the purpose of this agreement, full mitigation means the sum of all NOx, ROG, and PM10 emission reductions achieved by the Emission Reductions Proposals equals, or is greater than, the sum of all NOx, ROG, and PM10 emissions increases calculated as the average annual construction and the peak annual area source and mobile source emissions of NOx, ROG, and PM10 less the average annual emissions that have occurred at the project site during the three years prior to release of the Notice of Preparation. In addition to entering into, funding and enforcing the Funding Agreements in accordance with the provisions of Section 1.4 above, District shall do all of the following:

2.1. **District's Verification of Air Assessment Protocol.** Within ten (10) business days following the date of this Agreement, Developer shall submit to District an air assessment protocol prepared by Developer's air quality consultant reflecting the methodology, including air quality impact modeling, to be utilized in the preparation of the air quality assessment for the Project. Within thirty (30) business days following District's receipt of Developer's air assessment protocol, District shall review and comment upon such air assessment protocol, and, after Developer's incorporation of any revisions suggested by District, District shall verify in writing to Developer the correctness of the air assessment protocol which will be utilized in the preparation of the air quality assessment for the Project.

2.2 **District's Verification of Air Quality Assessment**. Following District's Verification of Air Assessment Protocol, Developer shall submit to District an air quality assessment prepared by Developer's air quality consultant assessing the air quality impacts of the Project. District shall use its best efforts to review and comment upon Developer's air quality assessment within thirty (30) days following District's receipt of Developer's complete air quality assessment, and, after Developer's incorporation of any and all revisions suggested by District, District shall verify in writing to Developer the correctness of the air quality assessment to be utilized in connection with the

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CEQA documents for the Project, including (i) the methodology utilized in the preparation of the CEQA document, (ii) the types and quantities of any net air quality impacts associated with the Project, (iii) the appropriateness of the mitigation measures proposed in the CEQA document, and (iv) any other matters which may pertain to such CEQA document and/or any air quality impacts or air quality mitigation measures referenced therein (the "**Verified Air Quality Assessment**").

2.3. **District's Verification of Administrative Draft Environmental Impact Report**. Upon request by Developer, and submission by Developer to District of any administrative Draft Environmental Impact Report, or other applicable CEQA documents for the Project, District shall review, comment upon and, after incorporation of any and all revisions made by District, verify in writing to Developer the correctness of all portions thereof which pertain to air quality impacts, including, (i) the methodology utilized in the preparation of the CEQA document, (ii) the types and quantities of any net air quality impacts associated with the Project, (iii) the appropriateness of the mitigation measures proposed in the CEQA document, and (iv) any other matters which may pertain to such CEQA document and/or any air quality impacts or air quality mitigation measures referenced therein.

2.4 **District's Acknowledgment Regarding Full Mitigation**. At such time as District is provided an opportunity as a commenting agency to comment upon the Draft Environmental Impact Report and Final Environmental Impact Report for the Project, District shall comment in writing as to the correctness of all portions thereof which pertain to air quality impacts, including (i) the methodology utilized in the preparation of the CEQA document, (ii) the types and quantities of any net air quality impacts associated with the Project, (iii) the appropriateness of the mitigation measures proposed in the CEQA document, and (iv) any other matters which may pertain to such CEQA document and/or any air quality impacts or air quality mitigation measures referenced therein. District shall at all times fully perform its duties and obligations as a commenting agency, and the provisions of this Section 2.4 shall not be

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interpreted to the contrary. At such time as District has entered into Funding Agreements pursuant to Section 1.4 above and the owners/operators of equipment to be removed and/or replaced under such agreements have removed and replaced such equipment in accordance with the provisions thereof, District shall verify in writing to Developer and to the lead agency that full mitigation of the Project's Air Impact has been achieved, upon successful fulfillment of all Funding Agreements. District shall ensure that the owners/operators of equipment to be removed and/or replaced pursuant to such Funding Agreements perform all obligations to be performed on the part of such parties under said Funding Agreements. District acknowledges that the Verified Air Quality Assessment and its quantification of the Project's Air Impact will be based on the pending applications for development of the Project and that actual approvals may be for a lesser amount of development. District agrees that Developer's obligations under this Agreement shall be based on the amount of development actually approved, and the final quantification of the Project's Air Impact will be revised accordingly.

2.5. **District's Oversight of Air Quality Mitigation Monitoring Plan**. Upon request of the lead agency having jurisdiction over the Project, District shall oversee that portion of the mitigation monitoring plan adopted by the lead agency for the Project which relates to the mitigation brought about by Section 1 of this Agreement. Alternatively, upon request of that lead agency, District shall cooperate with the lead agency in the oversight of that portion of the mitigation monitoring plan adopted by the lead agency for the Project which relates to the mitigation brought about by Section 1 of this Agreement.

2.6. **District's Documentation, Record Keeping and Monitoring**. District shall document, keep adequate records on and monitor the emission reduction brought about as a result of this Agreement, and shall from time to time, upon written request by Developer or by the lead agency for the Project, provide to Developer or to the lead agency written reports verifying that emission reduction has been and/or is being

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brought about so as to fully mitigate the Project's Air Impact.

3. **Subsequent Litigation, Legislation and/or Administrative Action / Credit to Developer.**

3.1. **Subsequent Litigation.** In the event that despite this Agreement, Developer is required as a result of a final judgment or District Approved Settlement (as defined below) in any subsequent third party litigation, to pay monies in addition to the monies to be paid by Developer pursuant to Section 1 above, then, provided that the project total emissions are the same as quantified in the Verified Air Quality Assessment, District shall acknowledge and credit Developer with mitigation of the air quality impacts of the Project in such types and quantities that Developer can establish, to the reasonable satisfaction of District, will result from Developer's payment of such additional monies, and shall reduce any amounts thereafter payable by Developer under this Agreement by an amount equal to the additional monies so paid by Developer. This requirement shall not apply if the additional monies are required to mitigate emissions that exceed those set forth in the Verified Air Quality Assessment. For purposes of this Section 3.1.1, a "**District Approved Settlement**" shall mean a settlement of a lawsuit filed pursuant to CEQA, the National Environmental Protection Act or other applicable environmental law which (i) provides for Developer's payment of monies in exchange for a dismissal of such lawsuit, (ii) provides for the use of such monies by the petitioner in such lawsuit in such a manner as to mitigate adverse air quality impacts of the Project, and (iii) is approved in writing by District.

3.2. **District Rule 9510.** The performance of Developer's and District's obligations under this Agreement will fully mitigate the Project's Air Impact. Inasmuch as the mitigation provided under this Agreement exceeds the mitigation which would otherwise have been provided under Sections 6.0 and 7.0 of District's Rule 9510, and the Project's mitigated baseline (being zero emissions) is less than the threshold stated in Section 4.3 of said Rule 9510, the Project is exempt from Sections 6.0 and

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7.0 of District's Rule 9510. Accordingly, no off-site Emission Reduction Fee will be required in connection with the approval or development of the Project. For each individual project developed at the project site requiring a discretionary approval by the lead agency, Developer shall provide District with a map or diagram indicating its location within the area covered by this Agreement.

4. **Term of Agreement**. This Agreement shall be effective upon the date first written above, and shall terminate upon District's meeting its obligation to implement projects that provide necessary emissions reductions to fully mitigate the Project's Air Impact (the "**Term**"). Developer may, at any time by written notice to District, terminate this Agreement, whereupon, (i) District shall acknowledge in writing to the lead agency that Developer has mitigated air quality impacts of the Project to the extent and in the types and quantities brought about by Funding Agreements theretofore funded by Developer's Emission Reduction Proposal Advance (and if applicable pursuant to Section 1.7.1 above), (ii) District shall refund to Developer any unused portion of Developer's Emission Reduction Proposal Advance less any unpaid administrative fees incurred; and (iii) neither Developer nor District shall have any further rights or obligations under this Agreement. Developer acknowledges that in the absence of this Agreement, the project is subject to all applicable provisions of District Rule 9510 (Indirect Source Review).

5. **Payment of Administrative Fees to District**. Developer agrees to pay to District, in order to reimburse District for its general overhead required for the administration of this Agreement, an administrative fee ("***ERIP Fee***") in an amount equal to four percent (4%) of the Emission Reduction Proposal Advance. Such ERIP Fee shall be due and payable upon Developer's delivery of the Emission Reduction Proposal Advance pursuant to Section 1.3 above. In addition to the ERIP Fee, Developer agrees to pay to District, within thirty (30) days following Developer's receipt of District's invoice, administrative fees to reimburse District for staff time spent and materials used by District in the administration of this Agreement, other than that time

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associated with the ERIP program covered by the ERIP Fee above, including review, verification and preparation of documents, and staff time relating to the performance of District's obligations hereunder, based on a time and materials basis at District's average weighted labor rates.

6. **Representations, Covenants and Warranties.**

6.1. **Developer's Representations, Covenants and Warranties.** Developer represents, covenants and warrants to District, as of the date of this Agreement, and as of the date of Developer's submission to District of any documents contemplated hereunder, as follows:

6.1.1. The undersigned representatives of Developer are duly authorized to execute, deliver and perform this Agreement, and upon Developer's execution and delivery of this Agreement, this Agreement will have been duly authorized by Developer.

6.1.2. Upon execution and delivery of this Agreement by Developer, Developer's obligations under this Agreement shall be legal, valid and binding obligations of Developer, duly enforceable at law and in equity in accordance with the terms and conditions of this Agreement.

6.1.3. There is no lawsuit, legal action, arbitration, legal or administrative proceeding, legislative or quasi-legislative action or claim existing, pending, threatened or anticipated which would render all or any portion of this Agreement invalid, void or unenforceable in accordance with the terms and conditions thereof.

6.1.4. Other than the execution and delivery of this Agreement by the undersigned representatives of Developer, there are no approvals, consents, confirmations, proceedings, or other actions required by Developer or any third party, entity or agency in order to enter into and carry out the terms, conditions and intent of the parties with respect to this Agreement.

6.2. **District's Representations, Covenants and Warranties.** District represents, covenants and warrants to Developer, as of the date of this Agreement,

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and as of the date of District's delivery to Developer of any documents contemplated hereunder, as follows:

6.2.1. The undersigned representatives of District are duly authorized to execute, deliver and perform this Agreement, and upon District's execution and delivery of this Agreement, this Agreement will have been duly authorized by District.

6.2.2. Upon execution and delivery of this Agreement by District, District's obligations under this Agreement shall be legal, valid and binding obligations of District, duly enforceable at law and in equity in accordance with the terms and conditions of this Agreement.

6.2.3. There is no lawsuit, legal action, arbitration, legal or administrative proceeding, legislative, quasi-legislative or administrative action or claim existing, pending, threatened or anticipated which would render all or any portion of this Agreement invalid, void or unenforceable in accordance with the terms and conditions thereof.

6.2.4. Other than the execution and delivery of this Agreement by the undersigned representatives of District, there are no approvals, consents, confirmations, proceedings, or other actions required by District or any third party, entity or agency in order to enter into and carry out the terms, conditions and intent of the parties with respect to this Agreement.

6.2.5. No lawsuit, legal action, arbitration, legal or administrative proceeding, legislative or quasi-legislative action or claim existing, pending, threatened or anticipated will render invalid, void or unenforceable any right or benefit Developer is to receive under the terms and conditions of this Agreement.

6.2.6. The monies paid by Developer under this Agreement shall be sufficient to ensure that the emission reduction contemplated by this Agreement shall occur, and District shall utilize such monies in such a manner as to ensure that such emission reduction shall occur.

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6.2.7. Upon the approval of this Agreement by the governing board of District, the Air Pollution Control Officer of District, or equivalent representative, or a delegee of such officer, shall have the authority to approve, deliver, verify, enter into, acknowledge and/or accept any communication, notice, notification, verification, agreement and/or other document to be issued or entered into by District under the terms and conditions of this Agreement, without further approval of the governing board of District.

7. **Indemnification**. Developer agrees to indemnify, defend and hold harmless District for, from and in connection with any third party claims, losses and/or liabilities arising from or in connection with District's performance of this Agreement, excluding only such claims, losses and/or liabilities which result from or in connection with District's sole negligence, act or omission.

8. **Inurement**. Developer's rights and obligations under this Agreement, or applicable portions thereof, shall run with the land encompassed by the Project, and shall inure to the benefit of and be binding upon the heirs, successors and assigns of Developer who take title to such lands or applicable portions thereof. Upon Developer's conveyance of all or any portion of the lands encompassed by the Project, the rights and obligations of Developer under this Agreement shall, to the extent applicable to the lands so conveyed, be transferred to the transferee thereof, and Developer shall thereupon be released by District from, all obligations and liabilities so assigned, except for such obligations and liabilities arising prior to such transfer.

9. **Assignment**. Developer shall have the right to assign all or any part of its rights and/or obligations under this Agreement. Upon any such assignment, Developer shall deliver to District a written assignment and assumption agreement specifying the fact and extent of the assignment, the name and address of the assignee, and the assignee's assumption of all obligations of Developer thereby assigned. Developer shall have the right to assign all or any part of its rights and/or obligations under this Agreement to a third party for use in connection with the mitigation of air quality impacts resulting from one or more projects other than the Project, so long as (i) the

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project is located within the District Boundaries, (ii) the air quality impacts of such project(s) will in fact be mitigated, as verified by District, by the emission reductions brought about by this Agreement, and (iii) the project(s) consist of residential, commercial, industrial and/or mixed use real estate projects which incorporate the Emission Reduction Design Features. Upon any such assignment by Developer, District shall enter into an amendment of this Agreement which acknowledges the assignment and conforms the various provisions of this Agreement as may be required to be conformed in order to provide to the assignee the rights and benefits of this Agreement as if such assignee and its project were the original party and project contemplated in this Agreement.

10. **Recitals Incorporated**. The recitals set forth hereinabove are hereby incorporated into this Agreement and acknowledged, agreed to and adopted by the parties to this Agreement.

11. **Further Assurances**. Developer and District agree to execute and deliver any documents and/or perform any acts which are reasonably necessary in order to carry out the intent of the parties with respect to this Agreement.

12. **No Joint Venture or Partnership**. District and Developer agree that nothing contained in this Agreement or in any document executed in connection with this Agreement shall be construed as making District and Developer joint ventures or partners.

13. **Notices**. Any notices or communications relating to this Agreement shall be given in writing and shall be deemed sufficiently given and served for all purposes when delivered, if (a) in person, (b) by facsimile (with the original delivered by other means set forth in this Section 13), (c) by generally recognized overnight courier or (d) by United States Mail, certified or registered mail, return receipt requested, postage prepaid, to the respective addresses set forth below, or to such other addresses as the parties may designate from time to time by providing written notice of the change to the other party.

SJVUAPCD
1990 E. Gettysburg
Fresno, CA 93726
(559) 230-6000

DEVELOPER	DISTRICT
John M. Antongiovanni Trust 5254 North Stine Road Bakersfield, CA 93309 Fax: (661) 322-7777 Attn: Gary Uhalt	Seyed Sadredin Executive Director/APCO 1990 E. Gettysburg Avenue Fresno, CA 93726 (559) 230-6000

14. **Entire Agreement**. The terms of this Agreement, together with all attached exhibits, are intended by the parties as the complete and final expression of their agreement with respect to such terms and exhibits and may not be contradicted by evidence of any prior or contemporaneous agreement. This Agreement specifically supersedes any prior written or oral agreements between the parties with respect to the subject matter of this Agreement.

15. **Amendments and Waivers**. No addition to or modification of this Agreement shall be effective unless set forth in writing and signed by the party against whom the addition or modification is sought to be enforced. The party benefited by any condition or obligation may waive the same, but such waiver shall not be enforceable by another party unless made in writing and signed by the waiving party.

16. **Invalidity of Provisions**. If any provision of this Agreement as applied to either party or to any circumstance shall be adjudged by a court of competent jurisdiction to be void or unenforceable for any reason, the same shall in no way affect (to the maximum extent permissible by law) any other provision of this Agreement, the application of any such provision under circumstances different from those adjudicated by the court, or the validity or enforceability of this Agreement as a whole. The parties further agree to replace any such invalid, illegal or unenforceable portion with a valid and enforceable provision, which will achieve, to the maximum extent legally possible, the economic, business or other purposes of the invalid, illegal or unenforceable portion.

17. **Construction**. Unless otherwise indicated, all Section references are to the sections of this Agreement and all references to days are to calendar days.

Whenever, under the terms of this Agreement the time for performance of a covenant or condition falls upon a Saturday, Sunday or California state holiday, the time for performance shall be extended to the next business day. The headings used in this Agreement are provided for convenience only and this Agreement shall be interpreted without reference to any headings. Wherever required by the context, the singular shall include the plural and vice versa, and the masculine gender shall include the feminine or neuter genders, or vice versa. This Agreement may be executed in one or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. The language in all parts of this Agreement shall be construed as a whole in accordance with its fair meaning, and shall not be construed against any party solely by virtue of the fact that such party or its counsel was primarily responsible for its preparation.

18. **Governing Law**. This Agreement shall be governed by the laws of the State of California applicable to contracts made and to be performed in California.

19. **No Third-party Beneficiaries**. Nothing in this Agreement, express or implied, is intended to confer any rights or remedies under or by reason of this Agreement on any person other than the parties to it and their respective permitted successors and assigns, nor is anything in this Agreement intended to relieve or discharge any obligation of any third person to any party hereto or give any third person any right of subrogation or action over or against any party to this Agreement.

20. **Exhibits**. The exhibits attached to this Agreement shall be deemed to be a part of this Agreement and are fully incorporated herein by reference.

21. **Force Majeure**. The time within which any party shall be required to perform under this Agreement shall be extended on a day-per-day basis for each day during which such performance is prevented or delayed by reason of events reasonably outside of the control of the performing party, including, without limitation, acts of God, events of destruction, acts of war, civil insurrection, strikes, shortages, governmental delays, moratoria, civil litigation and the like, and/or delays caused by

the non-performing party's act or omission.

IN WITNESS WHEREOF, Developer and District have executed this Agreement and agree that it shall be effective as of the date first written above.

DEVELOPER

John M. Antongiovanni Trust

By:_____

DISTRICT

San Joaquin Valley Unified Air Pollution Control District

_____
J. Steven Worthley
Governing Board Chair

Recommended for approval:
San Joaquin Valley Unified Air Pollution Control District

_____
Seyed Sadredin
Executive Director/APCO

Approved as to legal form:
San Joaquin Valley Unified Air Pollution Control District

_____
Philip M. Jay
District Counsel

Approved as to accounting form:

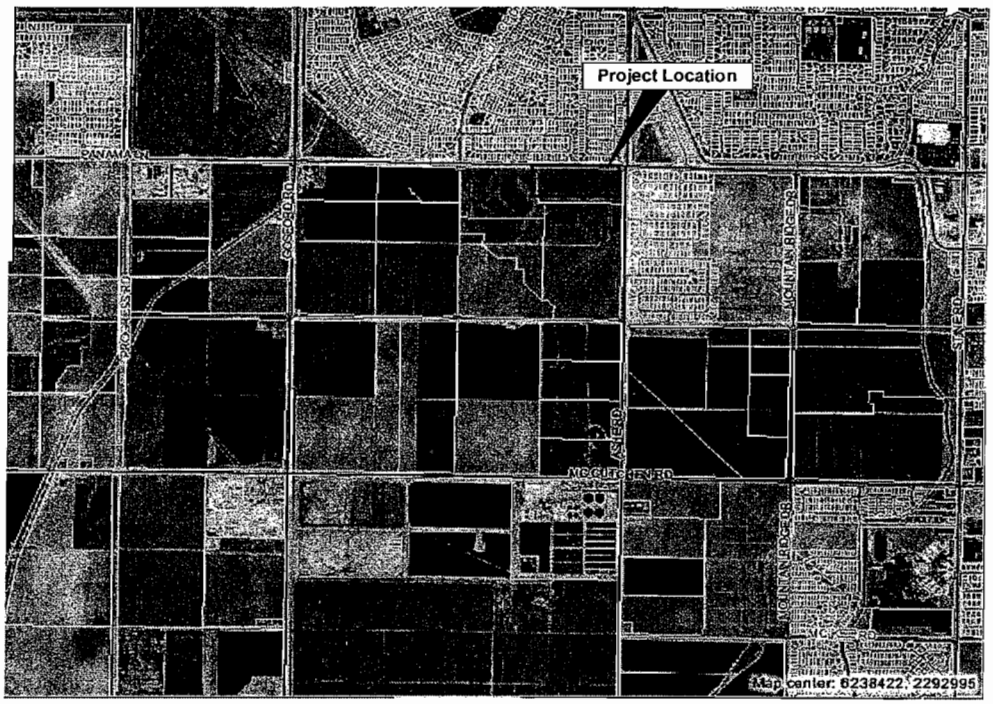
_____
Roger W. McCoy
Director of Administrative Services

For accounting use only:
San Joaquin Valley Unified Air Pollution Control District

Program: _____
Account No: _____

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1990 E. Gettysburg
Fresno, CA 93726
(559) 230-6000

EXHIBIT A



DESCRIPTION OF THE PROJECT

Silver Creek Plaza is a proposed shopping center to be located at the southwest corner of Panama Lane and Ashe Road within the City of Bakersfield, California. It is more specifically identified as approximately 20 gross acres (17 net acres) of land located at the southwest corner of Panama Lane and Ashe Road within Kern County in Section 28, Township 30 South, Range 27 East, Mount Diablo Base & Meridian. The current land use designation is LR- Low Density Residential and the existing zoning is R-1- Residential one family dwelling. The proposed land use is GC- general commercial with a proposed zone change to C-2/PCD – Commercial/Planned Commercial Development. Silver Creek Plaza will consist of 137,609 square feet of leasable area and shall include a grocery store, freestanding drug store, three outparcels commonly referred to as "pads" and two service shop buildings intended to serve the residents of the trade area with basic "daily needs" products and services. The project design will be of a soft Mediterranean style which will blend harmoniously with the neighboring residential tracts.

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EXHIBIT B

EMISSION REDUCTION DESIGN FEATURES

The project shall incorporate the following Emission Reduction Design Features:

The project will incorporate the following on-site features:

1. Utilization of land use designs which create walkable communities and encourage pedestrian travel.
2. Utilization of interconnecting sidewalks, walking paths and/or bike paths in order to encourage travel by means other than motor vehicle.
3. Utilization of appropriate landscaping to create reasonable shade canopies for streets, parkways and parking areas.
4. Utilization of roadway designs, which enhance pedestrian safety by appropriate signaling, signage and separation from traffic.

Prior to issuance of grading permits for the Project, Developer shall prepare and submit to District dust control plans for the areas to be graded, in accordance with District Regulation VIII. The plan shall be prepared consistent with District Regulation VIII and must be reviewed and approved by the District prior to commencement of grading activities. Each contractor working on the Project site shall implement the dust control measures outlined in the approved dust control plan. The dust control measures selected shall be incorporated as a note on each grading plan.

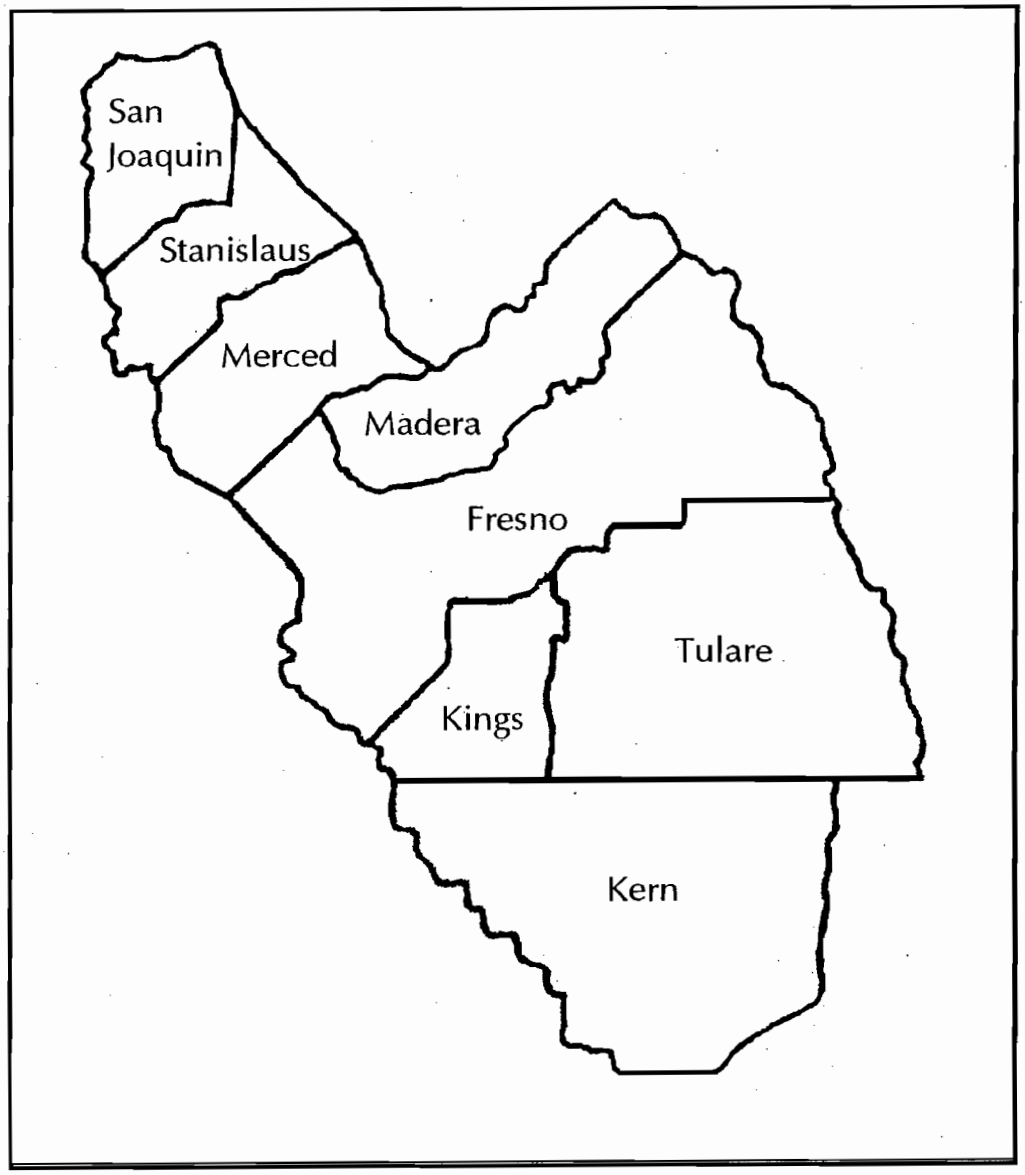
District maintains New Source Review requirements that direct owners/operators of certain types of stationary equipment to obtain an Authority to Construct ("ATC") and Permits to Operate ("PTO") from the District. As part of this process, the need for emission control equipment is assessed and the District determines whether a Health Risk Assessment ("HRA") must be prepared. Owners/operators of all stationary sources for which such approvals are required should show proof of compliance with District Rules and Regulations prior to issuance of certificates of occupancy.

///

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EXHIBIT C

DISTRICT BOUNDARIES



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San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

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Seyed Sadredin
Executive Director/
Air Pollution Control Officer

Northern Region Office
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FAX (559) 230-6061

Southern Region Office
2700 M Street, Suite 275
Bakersfield, CA 93301-2373
(661) 326-6900
FAX (661) 326-6985

www.valleyair.org

DATE: December 20, 2007

TO: SJVUAPCD Governing Board

FROM: Seyed Sadredin, Executive Director/APCO
Project Coordinator: David Warner

RE: **APPROVE VOLUNTARY EMISSION REDUCTION AGREEMENT WITH JOHN M. ANTONGIOVANNI TRUST, TO RECEIVE FUNDS IN THE AMOUNT OF $2,497,290 FOR THE PURPOSE OF MITIGATING AIR QUALITY IMPACTS OF THE PROPOSED "SILVER CREEK PLAZA" DEVELOPMENT PROJECT**

RECOMMENDATIONS:

1. Approve and authorize the Chair to sign the Voluntary Emissions Reduction Agreement with John M. Antongiovanni Trust.

2. Authorize staff to identify, fund and manage air quality projects that will mitigate the net project criteria pollutant impacts as determined in the approved Air Quality Impact Assessment for the proposed project.

BACKGROUND:

Since 2005, the District has entered into Voluntary Emission Reduction Agreements (VERA) with developers to mitigate the air impacts of their development projects. These agreements benefit air quality by achieving emission reductions in excess of District Rule 9510 (Indirect Source Review) requirements, applicable to development projects. In 2006-07, the District entered into four VERAs, which generated $11,829,250 in revenues. Projects funded by the District achieved total emission reductions of 824 tons of NOx, 33.7 tons of PM10 and 95 tons of VOC. The agreement before you today is similar to the previous agreements approved by your Board.

Representatives of John M. Antongiovanni Trust, have approached the District with a request for assistance in mitigating the significant air quality impacts of their development project proposed in the City of Bakersfield. Per the Agreement, the District will review and identify acceptable air quality impact analysis methods and procedures, and verify and manage consultant provided emission reduction projects or, if those projects prove insufficient, identify and manage other emission reduction projects to fully mitigate the net air quality impacts as identified in a District approved Air Quality Impact Assessment.

Silver Creek Plaza is a proposed shopping center to be located at the southwest corner of Panama Lane and Ashe Road within the City of Bakersfield, California. It is more specifically identified as approximately 20 gross acres (17 net acres) of land located at the southwest corner of Panama Lane and Ashe Road within Kern County in Section 28, Township 30 South, Range 27 East, Mount Diablo Base & Meridian. The current land use designation is LR- Low Density Residential and the existing zoning is R-1- Residential one family dwelling. The proposed land use is GC- general commercial with a proposed zone change to C-2/PCD – Commercial/Planned Commercial Development. Silver Creek Plaza will consist of 137,609 square feet of leasable area and shall include a grocery store, freestanding drug store, three outparcels commonly referred to as "pads" and two service shop buildings intended to serve the residents of the trade area with basic "daily needs" products and services. The project design will be of a soft Mediterranean style which will blend harmoniously with the neighboring residential tracts.

DISCUSSION:

Consultants for John M. Antongiovanni Trust provided the District with a preliminary Air Quality Impact Assessment (AQIA) of the project's impact on air quality. District staff has not received the final AQIA for review, so the amount of emission reductions is based on the developer's preliminary estimate of emissions. Upon receiving the final AQIA, District staff will verify the correctness of the emissions estimates for the project. The contract contains provisions that if upon completion of staff's review the amount of emission reductions increases or the funding is inadequate to purchase the reductions, District will notify John M. Antongiovanni Trust that additional funds are necessary to achieve full mitigation of the project's emissions. The final AQIA will address criteria pollutant emissions, public health/hazard impacts, carbon monoxide (CO) hotspots impacts, construction impacts, and mitigation.

One of the prerequisites of entering into a Voluntary Emission Reduction Agreement with the District is to include all feasible measures to reduce emissions at the project site. Construction fugitive dust emissions should be mitigated onsite by complying with the requirements specified in the District's Regulation VIII and with the use of cleaner construction equipment when available. Including design features that facilitate and encourage alternate forms of transportation and increase energy efficiency can mitigate

operational emissions. Specific onsite operational mitigation features agreed to by John M. Antongiovanni Trust are provided in the contract.

After accounting for the benefit of the onsite mitigation measures, John M. Antongiovanni Trust will provide monies to the District to fund projects that will reduce oxides of nitrogen (NOx), reactive organic gases (ROG) and fine particulate matter (PM10) emissions off-site. Given our experience in administering grants for emission reduction projects, with adequate funding, the District can bring about sufficient emission reductions from existing sources of emissions to fully and permanently mitigate the net air emissions from this development project. The emission reduction projects will permanently reduce emissions, because even after the useful life of the project has ended, the funded equipment, device or vehicle will be replaced with equipment, devices or vehicles that are as clean or cleaner than the original.

John M. Antongiovanni Trust has not provided the District a list of potential off-site emission reduction projects. The dollar value of this agreement is based on the emissions, as estimated by John M. Antongiovanni Trust, multiplied times the 2008 emission reduction schedule contained in Section 1.7.1 of the Agreement. Per the Agreement, John M. Antongiovanni Trust may propose emission reduction projects, and therefore, actual funds received by the District may be less than estimated. Projects proposed by John M. Antongiovanni Trust will be verified by the District to ensure that reductions are valid and each project will be field inspected by the District prior to and after installation. The District will also perform long term monitoring of the projects to ensure the emissions remain in place during the period of the agreement. Whether John M. Antongiovanni Trust or the District identifies projects, all will be under contract with the District to ensure their enforceability.

The preliminary AQIA prepared for the project provided the following criteria pollutant emission estimates:

ROG	12.31 tons/year
NOx	16.09 tons/year
PM10	6.02 tons/year
Total	34.42 tons/year

As presented below, the District would receive an estimated $2,497,290. This amount includes a four percent (4%) administrative fee to cover the District's costs of administering the program:

Mitigation Fees	$2,401,241
Admin. Fee (4%)	$96,049
Total	$2,497,290

The total funds identified in this item reflect the District's and developer's best estimate, and may increase in the future if it becomes necessary to reduce more emissions due to projects costing more than expected or be reduced if projects are obtained at a lower cost than anticipated.

All funds collected will be used for emission reduction projects that will fully mitigate the net air quality impact of criteria pollutants as identified in the approved assessment from the proposed project. The emission reduction projects will be in place contemporaneous with the development and will provide localized air quality benefits in the vicinity of the project. The District will establish a separate budgetary account for these mitigation funds, and will provide routine tracking and status reports documenting fund expenditures and the emissions reductions achieved for the development project.

FISCAL IMPACT:

Under the terms of the agreement, John M. Antongiovanni Trust is expected to pay to the District approximately a total of $2,401,241 in mitigation fees and $96,049 in administrative fees for a total of $2,497,290. John M. Antongiovanni Trust shall pay the mitigation fees in sufficient amounts to fully mitigate each phase of the project. Fees must be paid before generating emissions for the respective project phases. The agreement also contains provisions for the District to recover costs for staff time spent and materials used by the District in the administration of this Agreement. The District's 2007-08 Budget contains adequate revenue estimates and appropriations to facilitate the receipt of mitigation funds from John M. Antongiovanni Trust and for expenditure of those funds in accordance with the Voluntary Emission Reduction Agreement.

Attachments:
Attachment A – John M. Antongiovanni Trust Air Quality Mitigation Agreement (21 pages)

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Supervisor, Stanislaus County

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Councilmember, City of Fresno

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Seyed Sadredin
Executive Director
Air Pollution Control Officer

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(559) 230-6000 • FAX (559) 230-6061

Southern Region Office
34946 Flyover Court
Bakersfield, CA 93308-9725
(661) 392-5500 • FAX (661) 392-5585

www.valleyair.org

DATE: December 20, 2012

TO: SJVUAPCD Governing Board

FROM: Seyed Sadredin, Executive Director/APCO
Project Coordinator: Dave Warner

RE: **APPROVE VOLUNTARY EMISSION REDUCTION AGREEMENT WITH TESORO VIEJO, INC. TO RECEIVE AN ESTIMATED $13,901,416 IN FUNDS FOR THE PURPOSE OF MITIGATING AIR QUALITY IMPACTS OF THE PROPOSED "TESORO VIEJO SPECIFIC PLAN" DEVELOPMENT PROJECT**

RECOMMENDATION:

1. Approve and authorize the Chair to sign the Voluntary Emissions Reduction Agreement with Tesoro Viejo, Inc.

2. Authorize staff to identify, fund and manage air quality projects that will mitigate the project's criteria pollutant impacts as determined in the approved Revised Environmental Impact Report and subsequent Air Impact Assessments for the proposed project to a less than significant level.

BACKGROUND:

Since 2005, the District has entered into Voluntary Emission Reduction Agreements (VERA) with developers to mitigate the air impacts of their development projects. These agreements benefit air quality by achieving additional reductions in emissions. The District has entered into 17 VERAs, and to date has received $12,527,994.67 in revenues. Currently, projects funded by the District achieved total emission reductions of 128.31 tons of VOC, 37.10 tons of PM10 and 1,089.20 tons of NOx. The agreement before you today is similar to the previous agreements approved by your Board.

Representatives of Tesoro Viejo, Inc. have approached the District with a request for assistance in mitigating the significant air quality impacts of their development project proposed in Madera County. Per the agreement, the District will review and identify acceptable air quality impact analysis methods and procedures, and verify and manage consultant provided emission reduction projects, or identify and manage other emission reduction projects, to mitigate to a less than significant level the air quality impacts as identified in the Revised Environmental Impact Report (EIR) approved by Madera County and in subsequent District approved Air Impact Assessments.

The Tesoro Viejo project is located in southeastern Madera County, approximately 9 miles north of the City of Fresno and 13 miles east of the City of Madera, on property known locally as the Peck Ranch. The project proposes a mix of residential, commercial, office, retail, and light industrial uses, in addition to open space and recreational uses, schools and other institutional and public uses. The project proposes up to 5,190 residential units and 3 million square feet of commercial, industrial, and other non-residential space. The project will be developed in several phases, with full build-out expected in about 2025.

DISCUSSION:

The County of Madera has approved a Revised EIR for the Tesoro Viejo, Inc. project, which includes an assessment of the project's impact on air quality, addressing criteria pollutant emissions and public health/hazard impacts for both construction and longer-term operational impacts, and mitigation opportunities. The District has also received an application from Tesoro Viejo, Inc., to determine compliance with District Rule 9510, Indirect Source Review. District staff will use these sources of information to quantify emissions of each phase of construction as it is proposed.

One of the prerequisites of entering into a Voluntary Emission Reduction Agreement with the District is to include all feasible measures to reduce emissions at the project site. Fugitive dust emissions from construction activities will be mitigated onsite by complying with the requirements specified in the District's Regulation VIII and with the use of cleaner construction equipment when available. Including design features that facilitate and encourage alternate forms of transportation and increase energy efficiency can mitigate operational emissions. Specific onsite operational mitigation features agreed to by Tesoro Viejo, Inc. are provided in the contract, and are extensive.

After accounting for the benefit of the onsite mitigation measures, Tesoro Viejo, Inc. will provide monies to the District to fund projects that will reduce oxides of nitrogen (NOx), reactive organic gases (ROG), and fine particulate matter (PM10) emissions off-site to a less than significant level. Tesoro Viejo has committed to mitigating each of these three pollutants to the District's thresholds of significance (10 tons per year for NOx and ROG and 15 tons per year of PM10), but the VERA also allows Tesoro Viejo to mitigate to a

net zero emissions level, at their option. Given our experience in administering grants for emission reduction projects, with adequate funding, the District can bring about sufficient emission reductions from existing sources of emissions to permanently mitigate the air emissions from this development project. The emission reduction projects will permanently reduce emissions, because even after the useful life of the project has ended, the funded equipment, device or vehicle will be replaced with equipment, devices or vehicles that are as clean or cleaner than the original.

Tesoro Viejo, Inc. has not provided the District a list of potential off-site emission reduction projects, although they have the option to do so at a later date under this agreement. In addition, District-identified projects are generally more cost-effective than this schedule, and therefore, actual funds received by the District may be less than estimated. Projects proposed by Tesoro Viejo, Inc. will be verified by the District to ensure that reductions are valid and each project will be field inspected by the District prior to and after installation. The District will also perform long term monitoring of the projects to ensure the emissions remain in place during the period of the agreement. Whether Tesoro Viejo, Inc. or the District identifies projects, all will be under contract with the District to ensure their enforceability.

The dollar value of this agreement is based on the emissions, as estimated in the Revised EIR certified by Madera County, multiplied by the emission reduction schedule contained in Section 2.3 of the agreement. The actual amount paid will be based on emissions remaining after considering all on-site design features and project-related mitigation measures consistent with the procedures and calculations used to demonstrate compliance with Rule 9510 and CEQA.

The Revised EIR prepared for the project provided the following criteria pollutant emission estimates:

ROG	117.9	tons/year
NOx	39.9	tons/year
PM10	56.1	tons/year
Total	213.9	tons/year

As presented below, the District would receive an estimated $13,901,416 to mitigate these emissions to a less than significant level. This amount includes a four percent (4%) administrative fee to cover the District's costs of administering the program:

Mitigation Fees	$	13,366,746
Admin. Fee (4%)	$	534,670
Total	$	13,901,416

The total funds identified in this memo reflect the District's best estimate, and may increase in the future if it becomes necessary to reduce more emissions or if projects are more expensive than anticipated, or may be reduced due to the implementation additional enforceable mitigations or if projects are obtained at a lower cost than anticipated in the VERA fee schedule. It should be noted that, thus far, the District has been able to fund projects that are significantly more cost effective than this estimate.

All funds collected will be used for emission reduction projects that will mitigate the air quality impact of criteria pollutants to a less than significant level as identified in the approved assessment from the proposed project. The emission reduction projects will be in place contemporaneously with the development and will directly provide air quality benefits in the San Joaquin Valley, with priority placed on projects within Madera County. The District will establish a separate budgetary account for these mitigation funds, and will provide routine tracking and status reports documenting fund expenditures and the emissions reductions achieved for the development project.

Finally, upon completion of the mitigation, the District will verify in writing to Tesoro Viejo and the County of Madera the extent of mitigation supplied, and will continue to enforce the contracts related to the emissions reduction projects to assure that the mitigation is permanent.

FISCAL IMPACT:

Under the terms of the agreement, Tesoro Viejo, Inc. is expected to pay to the District an estimated $13,366,746 in mitigation fees and $534,670 in administrative fees for a total of $13,901,416, in phases corresponding to construction phases starting in the year 2013 or later. Tesoro Viejo, Inc. shall pay the mitigation fees in sufficient amounts to mitigate each phase of the project. Fees must be paid at least six months before generating emissions for the respective project phases. District's Budget will be adjusted accordingly to facilitate the receipt of mitigation funds and for expenditure of those funds in accordance with the Voluntary Emission Reduction Agreement.

Attachment: Tesoro Viejo, Inc. Voluntary Emission Reduction Agreement (34 pages)

San Joaquin Valley Unified Air Pollution Control District
Meeting of the Governing Board
December 20, 2012

APPROVE VOLUNTARY EMISSION REDUCTION AGREEMENT WITH TESORO VIEJO, INC. TO RECEIVE AN ESTIMATED $13,901,416 IN FUNDS FOR THE PURPOSE OF MITIGATING AIR QUALITY IMPACTS OF THE PROPOSED "TESORO VIEJO SPECIFIC PLAN" DEVELOPMENT PROJECT

Attachment:

TESORO VIEJO, INC.
VOLUNTARY EMISSION REDUCTION AGREEMENT
(34 PAGES)

VOLUNTARY EMISSION REDUCTION AGREEMENT 20100115

This Voluntary Emission Reduction Agreement ("Agreement") is entered into as of December __, 2012 by and between Tesoro Viejo, Inc. ("Developer") and the SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT, an air pollution control district formed pursuant to California Health and Safety Code section 40150, et seq. ("District").

RECITALS

WHEREAS, the County of Madera previously approved a Project known as the Tesoro Viejo Specific Plan, as more particularly described on Exhibit A attached hereto (the "Project") in 2008 and whereas certain court decisions required revisions to the previously certified Environmental Impact Report ("2008 EIR") and rescission and subsequent reconsideration of Project approvals; and

WHEREAS, such court decisions did not require any reconsideration of air quality impacts in the 2008 EIR except to the extent required by reason of other required revisions; and

WHEREAS, the 2008 EIR demonstrated that the Project would satisfy the requirements of District's Indirect Source Rule 9510 ("Rule 9510) with respect to reduction thresholds ("Reduction Thresholds") for NOx and PM10 emissions by a combination of design features incorporated into the Project, as recited in the 2008 EIR and specified on Exhibit B attached hereto and incorporated herein ("Emission Reduction Design Features") and payment of fees to the District pursuant to Rule 9510 to be used by District to accomplish offsetting reductions in such emissions; and

WHEREAS, the 2008 EIR found that the Project would still have significant and unavoidable Project and cumulative impacts by reason of exceeding the District's adopted thresholds for operational emissions of 10 tons each for individual projects for NOx and ROG emissions("Operational Thresholds") at buildout and would therefore

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have significant and unavoidable impacts as also found for prospective development for the Rio Mesa Area Plan; and

WHEREAS, the County made corresponding findings pursuant to its role as lead agency for the Project under the California Environmental Quality Act ("CEQA"); and

WHEREAS, the County has now prepared a Final Revised EIR ("Final REIR") in response to court requirements which did not require changes in the air quality analysis and therefore identifies the same operational air quality impacts at Project buildout as those previously shown and results in the same findings regarding significant and unavoidable impacts under CEQA as before and the County has made corresponding findings under CEQA; and

WHEREAS, Developer has volunteered additional emission reductions beyond those required for compliance with District's Rule 9510 pursuant to its Development Agreement with the County and a corresponding condition of approval to which reference is made in the REIR to be achieved pursuant to this Agreement (or by the County and Developer seeking to achieve the equivalent by alternative means) as hereinafter described; and

WHEREAS, Developer proposes to reduce and/or offset emissions to be no greater than the District's adopted Operational Thresholds and the District's proposed PM 10 threshold of 15 tons (which proposed threshold is also included in the term "Operational Thresholds" as used hereinafter); or, if determined by Developer to be feasible and involving no substantially greater cost and therefore elected by Developer, to involve reductions or offsets in the sum of all emissions of NOx, ROG and PM10to net zero impacts (which the District refers to as the "net zero level"), thereby achieving less than significant impacts on air quality despite the finding of same in the Final REIR, all as verified by the District as more particularly described below, such reductions and offsets being referred to hereinafter as "Reduction of Project Related Impacts on Air Quality to Less than Significant Levels"; and

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WHEREAS, notwithstanding the lack of any obligation to revisit the issue of the significance of air quality impacts in the REIR, Developer has offered to County and now to District to enter into this Agreement so as to seek to reduce such operational impacts to less than significant levels, as well as achieving compliance with the Indirect Source Rule 9510 ("Rule 9510"), and County has accepted such offer pursuant to both a Development Agreement (the "Development Agreement") and a corresponding condition of approval to the Project to which the Developer has voluntarily assented and, subject to the District's approval of this Agreement or implementation of an alternative enforceable agreement between the Developer and County with the objective of achieving the same results by identification and incorporation into the Project or funding by Developer of projects which will satisfy the offset requirements as well as by on-site and other Project-related measures as have been and may be further identified to be available and selected by Developer and determined effective as additions to Emission Reduction Design Features already incorporated into the Project and recognized in the Final REIR; and

WHEREAS, the County has now reapproved the Project with no substantial changes and the Project incorporates the same Emission Reduction Design Features as well as a contractual commitment and volunteered condition of approval to implement additional emission reduction measures through a combination of additional on-site measures, direct Project-related measures and indirect measures involving offsetting existing emissions within Madera County (and within the District's boundaries as depicted on Exhibit C attached hereto and incorporated herein (the "District Boundaries") if insufficient sources exist in Madera County) by direct funding or by payment of fees to District to fund offsetting projects through this Agreement, as recited in the Final REIR, in order to reduce the air quality impacts associated with the Project both as required by Rule 9510 and to achieve a Reduction of Project Related Impacts on Air Quality to Less than Significant Levels; and

WHEREAS, Developer desires to enter into this Agreement in order to fulfill its

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obligations pursuant to condition of the County's Project approval and its contractual obligations under the Development Agreement; and

WHEREAS, District is responsible for developing and implementing air quality control measures within the District Boundaries, including air quality control measures for stationary sources, transportation sources, and indirect sources; and

WHEREAS, District has determined that with appropriate funding, District can achieve Reduction of Project Related Impacts on Air Quality to Less than Significant Levels through projects in types and in sufficient quantities to offset the net air quality criteria pollutant impacts of the Project not achieved by Emission Reduction Design Features or other on-site or Project-related measures available to Developer (which when identified and found to cause emission reductions shall also be deemed Emission Reduction Design Features as referred to hereinafter); and

WHEREAS, Developer and District desire to enter into this Agreement in order to develop and implement air quality control measures which will reduce Project impacts to or below the Operational Thresholds in order to achieve Reduction of Project Related Impacts on Air Quality to Less than Significant Levels.

AGREEMENT

NOW THEREFORE, in exchange of the mutual covenants herein contained, Developer and District hereby agree as follows:

1. **Reduction of Project Related Impacts on Air Quality to Less than Significant Levels**

Project related impacts shall be offset and therefore reduced, to the extent not mitigated by Emission Reduction Design Features (as heretofore defined) by achieving surplus, quantifiable and enforceable reductions of ROG, NOx, and PM_{10} from Project operational emissions ("Emission Reductions") equal to Reduction of Project Related Impacts on Air Quality to Less than Significant Levels. The determination of whether proposed Emission Reductions are surplus shall be performed by the District through

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its Strategy and Incentives Department. To quantify and achieve the Emission Reductions provided for in this Agreement for the Project, each tentative subdivision map application (or commercial site plan application if not preceded by a tentative subdivision map application), (or combinations of the same if processed at the same time) submitted by the Developer to County to implement the Project shall comprise a separate and distinct Project Phase ("Project Phase"). Subject to adjustments and qualifications as hereinafter provided, a portion ("Project Phase Impact") of the Project's forecasted total operational emissions of NOx, ROG and PM10 (" Project Impact") will be allocated to each Project Phase and quantified as a Project Phase Impact in accordance with the share of total Project development that is included in that Project Phase. For the initial Project Phases, until 400 dwelling unit equivalents are reached and additional measurements of Project-generated traffic are available for use, the Project Phase Impact shall be quantified based on proportionality to the Project Impact as shown in the Final REIR unless a greater or lesser impact is shown to be required for compliance with Rule 9510 in which case the Project Phase Impact shall be deemed to equal that required to comply with Rule 9510. In the case of subsequent Project Phases, adjustments shall be made to the proportion otherwise determined based on the Final REIR as are shown to be justified by those measurements of Project-generated traffic (and associated trip lengths reasonably predicted by market analysis, survey or other analytical technique approved by the District for use in air quality modeling for Rule 9510 compliance) measured to be entering and leaving the Project required to be conducted pursuant to the Development Agreement. As in the case of air quality modeling for Rule 9510 compliance performed for Project Phases, credit shall be allowed for planned land uses, infrastructure, and design standards included in the Tesoro Viejo Specific Plan. The Project Impact and associated Project Phase Impacts will be subject to further adjustment if: (1) the County or Developer approves a revised air quality impact assessment, demonstrating that the Project or Project Phase related air quality

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impacts are different than originally quantified; or (2) the County adopts and/or certifies a new supplemental environmental assessment demonstrating that the Project or Project Phase related impacts are different than originally quantified; (3) Developer changes the size of Project or changes its attributes in a manner which would change Project emissions and surrenders the associated entitlements or (4) District determines on its own that by reason of the nature of the Project Phase and/or Emission Reduction Design Features incorporated therein, its impacts will be different than otherwise anticipated based on forecasts for the entire Project contained in the Final REIR.

Developer may mitigate the Project Impact and any Project Phase Impact by any combination of the following: 1) providing District with off-site Emission Reduction proposals and sufficient funds or security to execute the proposals, 2) paying Air Quality Mitigation Fees to the District which the District shall apply to off-site Emission Reductions, or 3) binding itself to implement additional Emission Reduction Design Features or Emission Reduction proposals related to the Project (such as off-site transit services) and such Emission Reduction proposals are made subject to District monitoring equivalent to that provided for other Emission Reduction proposals or Developer provides security deemed adequate by the District to assure fulfillment of such obligations. Developer may mitigate all Project Impact at one time, or Developer may mitigate Project Phase Impact by Project Phase. For the purpose of this agreement, a Project Phase is any subset of the total Project which would result in operational emissions as hereinbefore defined and which is approved by the County, with the exception of stationary and area-wide source emissions subject to District permit that are mitigated through compliance with Rule 2201 – New and Modified Stationary Source Review. If Developer mitigates all Project Impact at once, Developer shall comply with Rule 9510 with respect to the entire Project and provide District with sufficient Emission Reductions proposals and/or Emission Reduction Design Features to fully achieve the Reduction of Project Related Impacts on Air

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Quality to Less than Significant Levels no later than six months prior to generating Project operational emissions. If Developer mitigates Project Impact in Project Phases, Developer must provide District with sufficient mitigation measures to mitigate each Project Phase before generating emissions in such Project Phase consistent with the Emission Reductions for the Project as a whole provided for by this Agreement. If Developer mitigates Project Impact by Project Phase, Developer must submit to the District an Air Impact Assessment (AIA) Application for each project phase under the timelines set forth in Rule 9510. The Emission Reductions for the Project Phase shall be proportional to those required for the Project as a whole as indicated in the Final REIR for the uses involved in such Project Phase unless evidence demonstrates that the Emission Reductions for such Project Phase should be altered consistent with the requirements of this Agreement set forth above with respect to subsequent assessments or reductions in Project size or other characteristics giving rise to operational emissions. Developer agrees to Emission Reductions for each Project Phase necessary to reduce emissions to the Operational Thresholds or better for all Project Phases or with the extent of mitigation required in any subsequent air quality impact assessment certified or approved by the County. If at any time Developer, having commenced Emission Reductions based on Project Phases, chooses to fund Emission Reductions for future Project Phases or the Project as a whole, Developer may do so without losing its right to proceed to fund Emission Reductions for phases with respect to subsequent Project Phases. District shall credit Developer for all Emission Reductions brought about by this Agreement, including any Emission Reductions District achieves prior to the date Developer receives final approval of the Project from all applicable governmental authorities other than the County which has already granted approval.

2. **Priority for Location and Character of Emission Reduction Proposals**

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2.1 **Priority for Emission Reduction Proposals in Madera County**

In accordance with the agreement between County and Developer, priority shall be given for Emission Reduction Proposals proposed and funded by Developer or proposed and funded by District from fees paid by Developer to District shall be within Madera County and directed to assist in reducing emissions generated by agricultural activities within Madera County, by Madera County businesses and by the County itself, to the maximum extent feasible and consistent with principles of maximum cost-effectiveness, District agrees to consult with County on the same.

2.2. **Emission Reduction Proposals submitted by Developer**

Developer shall submit complete Emission Reduction proposals to District on District's approved application forms. Each Emission Reduction proposal shall contain the following: (1) an estimate of Emission Reductions to be achieved; (2) an estimated funding cost; and (3) a representation by Developer that the owner/operator (if other than Developer) of the identified emission reduction proposal (whether equipment, service, materials or technologies) has expressed interest in entering into a written Funding Agreement with the District. Representation is in the form of a signed and complete District emission reduction project application(s).

On the date of submittal of each Emission Reduction Proposal which does not involve Emission Reduction Proposals to be carried out by Developer itself, Developer shall advance to District a monetary sum equal to the total estimated cost specified in the Emission Reduction Proposal ("Emission Reduction Proposal Advance") plus an administrative fee of four (4) percent. District shall use such Emission Reduction Proposal Advance(s) to execute Funding Agreements, as set forth in Paragraph 3 (Funding Agreements). In the case of Emission Reduction Proposals to be carried out by Developer itself, Developer shall provide adequate security to assure that such proposals are implemented and/or Developer's activities shall be subject to periodic monitoring by District to ensure that measures continue to be carried out.

2.3. **Emission Reduction Proposals initiated by the District.**

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Developer may request in writing for District to identify Emission Reduction proposals on behalf of Developer for the Project or any Project Phase. On the date of the request, Developer shall advance to District a monetary sum equal to District's estimated cost per ton, as set forth in Table 1 ("Emission Reduction Cost Schedule") multiplied times the number of tons of emission reductions to be achieved ("Air Quality Mitigation Fee"), plus an administrative fee of four (4) percent. District will identify Emission Reduction Proposals from District's Strategy and Incentives Department and use said Air Quality Mitigation Fees to achieve emission reductions on behalf of Developer. The future cost of reductions is uncertain due to yet to be adopted regulations on emission sources used for Emission Reduction proposals, future technological advancements and market conditions. In the event that adjustments to the Emission Reductions are required, the analysis shall be conducted in accordance with modeling assumptions acceptable for use in compliance with Rule 9510, including credit for land uses, design standards and infrastructure provided for in the Tesoro Viejo Specific Plan as previously indicated. The District commits to endeavor to identify projects at the least cost possible to achieve the Emission Reductions required. .

Table 1 Emission Reduction Cost Schedule

Pollutant	Fee Rate $/ton
NOx or ROG	$70,125
PM10	$90,110

3. **Funding Agreements**

Upon Developer's submission to District of each Emission Reduction Proposal Advance or Air Quality Mitigation Fee, District shall (1) shall use diligent efforts to enter into Funding Agreements with the owners and/or operators of the pollution source equipment as identified in the Emission Reduction Proposals, within one hundred eighty (180) days of receiving funding; (2) determine the types and quantities of permanent reduction in emissions which would be realized by the Emission Reduction Proposals; (3) shall perform the determination of surplus emission reductions of ROG,

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NOx, and PM10 or combined reductions of all three; and (4) shall advise Developer of such determination in writing.

District shall notify Developer or designee in writing of Funding Agreements entered into by the District. In the event District is unable to achieve the required reductions District shall provide Developer a written statement of the amount of reductions that have been achieved. Developer shall have a reasonable time, not to exceed ninety (90) days, within which to submit to District additional Emission Reduction Proposal(s); or provide District additional Air Quality Mitigation Fee(s).

4. **Unused Emission Reduction Proposal Advance**

If District is unable to enter into Funding Agreements with owners or operators identified in Developer's Emission Reduction Proposals, or if requested by Developer in writing, District may use any unused portion of Developer's Emission Reduction Proposal Advance to fund Emission Reduction Proposals per Paragraph 2.2 (Emission Reduction Proposals initiated by the District).

5. **Excess Emission Reductions**

Developer shall be credited with all Emission Reductions achieved by District through this Agreement that exceed the amount of required Emission Reductions for the Project as a whole ("Excess Emission Reduction"). Developer shall have two years from the date the reductions are identified as an Excess Emission Reduction, with the ability to extend an additional two years based on economic conditions, to transfer the Excess Emission Reduction, if determined by District to be surplus at the time of transfer, to another development project owned by Developer within the San Joaquin Valley Air Basin or to a development project owned by another developer within the District or to obtain a refund as provided below. Developer must provide District written request for such transfer or refund.

6. **Refunds**

Upon verification by District that Project or Project Phase related impacts have been fully mitigated District shall refund Developer any unused Emission Reduction

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Proposal Advance or Air Quality Mitigation Fee related to the Project or a Project Phase. District shall have reasonable time, not to exceed sixty (60) days to refund Developer after a request therefor.

7. **District Rule 9510 (Indirect Source Review)**

Developer acknowledges that except as provided for in this Agreement, Developer is subject to all applicable provisions of Rule 9510 that are in effect at the time of submitting or amending an Air Impact Assessment Application in accordance with Paragraph 7.1. District acknowledges that to the extent that Emission Reductions provided under this Agreement equals or exceeds Emission Reductions that would otherwise be achieved through compliance with Sections 6.0 and 7.0 of Rule 9510, Developer shall be considered to be in compliance with Sections 6.0 and 7.0 of Rule 9510.

7.1 **Rule 9510 Equivalency**

District acknowledges that Developer has submitted an initial Air Impact Assessment Application under Rule 9510 for the Project. Developer shall submit to District an amendment to the Air Impact Assessment Application for each Project Phase that is subject to a further discretionary approval by the County as required by Rule 9510 or, as required by the Project's approvals, including the Development Agreement, if imposing stricter requirements than Rule 9510. Developer shall submit each amendment to the Air Impact Assessment Application consistent with Rule 9510 requirements. Upon receipt of each amendment to the Air Impact Assessment Application, the District shall calculate the amount of Emission Reductions required pursuant to Rule 9510 and verify equivalency of Emission Reductions achieved under this Agreement in accordance with the same analytical procedures utilized to calculate Emission Reductions to achieve Reduction of Project Related Impacts on Air Quality to Less than Significant Levels.

8. **Compliance with Any Subsequent CEQA Requirements**

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Upon request by Developer, and submission to District of any supplemental or subsequent CEQA document for the Project or Project Phase required by the County which analyzes the Project's impacts on air quality, District shall use the results for purposes of applying the requirements of this Agreement to subsequent Project Phases affected thereby. District reserves its right to perform and shall fully perform its duties and obligations as a commenting agency when provided opportunity to comment upon any supplemental or subsequent CEQA document for the Project or a Project Phase.

9 District's Obligation

9.1 Acknowledgement Regarding Extent of Mitigation

Upon successful fulfillment of all Emission Reductions identified pursuant to this Agreement to achieve Reduction of Project Related Impacts on Air Quality to Less than Significant Levels for the Project as a whole or for a Project Phase, District shall verify in writing to Developer and to the County that the Project or Project Phase related impacts on air quality have been so reduced.

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9.2 Oversight of Funding Agreements

District shall ensure that the owners/operators of equipment, services, materials or technologies subject to Funding Agreements perform all obligations to be performed on the part of such parties under said Funding Agreements.

9.3 Oversight of Air Quality Mitigation Monitoring Plan

Upon request of the County, District shall oversee that portion of the mitigation monitoring plan adopted for the Project. Alternatively, upon request of the County, District shall cooperate with County in the oversight of that portion of the mitigation monitoring plan adopted for the Project which relates to the mitigation brought about by Paragraph 1 of this Agreement.

9.4 Documentation, Record Keeping and Monitoring

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District shall document, keep adequate records on and monitor the emission reductions brought about as a result of this Agreement, and shall, upon written request by Developer or by the County, provide Developer and County written reports verifying achieved Emission Reductions and/or Emission Reductions being brought about to address Project impacts on air quality.

9.5 **Achievement of Emission Reductions**

For and in exchange of Developer's payment of funds pursuant to Paragraph 2 above, District shall ensure, by way of entering into, funding and enforcing the Funding Agreements in accordance with the provisions of Paragraph 9.2 (Oversight of Funding Agreements), that the Project achieves the required Emission Reductions to the extent specified in this Agreement.

10. **Subsequent Litigation, Legislation and/or Administrative Action / Credit to Developer**

In the event that despite this Agreement, Developer is required as a result of a final judgment or District Approved Settlement (as defined below) in any subsequent third party litigation, to expend or pay monies in addition to the monies to be paid by Developer pursuant to Paragraph 2 (Mitigation Measures) above, then District shall acknowledge and credit Developer with the Emission Reductions achieved pursuant to Paragraph 1 and any additional Emission Reductions achieved to mitigate the Project related impacts on air quality that will result from Developer's payment of such additional monies. For purposes of this Paragraph, a "District Approved Settlement" shall mean a settlement of a lawsuit filed pursuant to CEQA, the National Environmental Protection Act, the Clean Air Act or other applicable environmental law which (i) provides for Developer's payment of monies in exchange for a dismissal of such lawsuit, (ii) provides for the use of such monies by the petitioner in such lawsuit in such a manner as to mitigate adverse air quality impacts of the Project, and (iii) is approved in writing by District.

11. **Term of Agreement**

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This Agreement shall be effective upon the date first written above, and shall terminate upon District's meeting its obligation to implement projects that provide Emissions Reductions provided for by this Agreement to achieve Reduction in Project Related Impacts to Less than Significant Levels. Developer may, at any time by written notice to District, terminate this Agreement, whereupon, (i) District shall acknowledge in writing to the County that Developer has mitigated air quality impacts of the Project to the extent and in the types and quantities brought about by Funding Agreements and Emission Reductions and Emission Reduction Design Features, (ii) District shall refund to Developer any unused portion of Developer's Emission Reduction Proposal Advances or Air Quality Mitigation Fee less any unpaid administrative fees incurred; and (iii) neither Developer nor District shall have any further rights or obligations under this Agreement except as expressly provided. District's obligations to oversee implementation of Funding Agreements pursuant to Paragraph 9.2 (Oversight of Funding Agreements) and to ensure that required Emission Reductions are achieved, pursuant to Paragraph 9.5 (Achievement of Emission Reductions), shall remain effective for as long as necessary to ensure that the anticipated Emission Reductions continue to be achieved to the extent specified in the Final REIR or any applicable subsequent CEQA document..

12. **Representations, Covenants and Warranties**

12.1. **Developer's Representations, Covenants and Warranties.**

Developer represents, covenants and warrants to District, as of the date of this Agreement, as follows:

12.1.1. The undersigned representatives of Developer are duly authorized to execute, deliver and perform this Agreement, and upon Developer's execution and delivery of this Agreement, this Agreement will have been duly authorized by Developer.

12.1.2. Upon execution and delivery of this Agreement by Developer, Developer's obligations under this Agreement shall be legal, valid and

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binding obligations of Developer, duly enforceable at law and in equity in accordance with the terms and conditions of this Agreement.

12.1.3. There is no lawsuit, legal action, arbitration, legal or administrative proceeding, legislative or quasi-legislative action or claim existing, pending, threatened or anticipated which would render all or any portion of this Agreement invalid, void or unenforceable in accordance with the terms and conditions thereof.

12.1.4. Other than the execution and delivery of this Agreement by the undersigned representatives of Developer, there are no approvals, consents, confirmations, proceedings, or other actions required by Developer or any third party, entity or agency in order to enter into and carry out the terms, conditions and intent of the parties with respect to this Agreement.

12.2. **District's Representations, Covenants and Warranties**

District represents, covenants and warrants to Developer, as of the date of this Agreement, as follows:

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12.2.1. The undersigned representatives of District are duly authorized to execute, deliver and perform this Agreement, and upon District's execution and delivery of this Agreement, this Agreement will have been duly authorized by District.

12.2.2. Upon execution and delivery of this Agreement by District, District's obligations under this Agreement shall be legal, valid and binding obligations of District, duly enforceable at law and in equity in accordance with the terms and conditions of this Agreement.

12.2.3. There is no lawsuit, legal action, arbitration, legal or administrative proceeding, legislative, quasi-legislative or administrative action or claim existing, pending, threatened or anticipated which would render all or any portion of

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this Agreement invalid, void or unenforceable in accordance with the terms and conditions thereof.

12.2.4. Other than the execution and delivery of this Agreement by the undersigned representatives of District, there are no approvals, consents, confirmations, proceedings, or other actions required by District or any third party, entity or agency in order to enter into and carry out the terms, conditions and intent of the parties with respect to this Agreement.

12.2.5. The monies paid by Developer under this Agreement shall be sufficient to ensure that the Emission Reductions contemplated by this Agreement shall occur, and District shall utilize such monies in such a manner as to ensure that such Emission Reductions shall occur.

12.2.6. Upon the approval of this Agreement by the governing board of District, the Air Pollution Control Officer of District, or equivalent representative, or a delegee of such officer, shall have the authority to approve, deliver, verify, enter into, acknowledge and/or accept any communication, notice, notification, verification, agreement and/or other document to be issued or entered into by District under the terms and conditions of this Agreement, without further approval of the governing board of District.

13. **Indemnification**

Developer agrees to indemnify, defend and hold harmless District for, from and in connection with any third party claims, losses and/or liabilities arising from or in connection with District's performance of this Agreement, excluding only such claims, losses and/or liabilities which result from or in connection with District's sole negligence, act or omission.

14. **Inurement**

Developer's rights and obligations under this Agreement, or applicable portions thereof, shall run with the land encompassed by the Project, and shall inure to the benefit of and be binding upon the heirs, successors and assigns of Developer who

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take title to such lands or applicable portions thereof. Upon Developer's conveyance of all or any portion of the lands encompassed by the Project, the rights and obligations of Developer under this Agreement shall, to the extent applicable to the lands so conveyed, be transferred to the transferee thereof, and Developer shall thereupon be released by District from, all obligations and liabilities so assigned, except for such obligations and liabilities arising prior to such transfer or specifically not transferred with the land conveyed as indicated in an instrument in writing.

15. **Assignment**

Developer shall have the right to assign all or any part of its rights and/or obligations under this Agreement with respect to a Project Phase or the Project and District shall cooperate with Developer in providing for assignment and assumption of rights and responsibilities hereunder applicable to the implementation of any Project Phase. Upon any such assignment, Developer shall deliver to District a written assignment and assumption agreement specifying the fact and extent of the assignment, the name and address of the assignee, and the assignee's assumption of all obligations of Developer thereby assigned. Developer shall have the right to assign all or any part of its rights and/or obligations under this Agreement to a third party for use in connection with the mitigation of air quality impacts resulting from one or more projects other than the Project, so long as (i) the project is located within the District Boundaries and(ii) the air quality impacts of such project(s) will in fact be mitigated, as verified by District, by the Emission Reductions brought about by this Agreement.. Upon any such assignment by Developer, District shall enter into an amendment of this Agreement which acknowledges the assignment and conforms the various provisions of this Agreement as may be required to be conformed in order to provide to the assignee the rights and benefits of this Agreement as if such assignee and its project were the original party and project contemplated in this Agreement.

16. **Recitals Incorporated**

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The recitals set forth hereinabove are hereby incorporated into this Agreement and acknowledged, agreed to and adopted by the parties to this Agreement.

17. **Further Assurances**

Developer and District agree to execute and deliver any documents and/or perform any acts which are reasonably necessary in order to carry out the intent of the parties with respect to this Agreement.

18. **No Joint Venture or Partnership**

District and Developer agree that nothing contained in this Agreement or in any document executed in connection with this Agreement shall be construed as making District and Developer joint venturers or partners.

19. **Notices**

Any notices or communications relating to this Agreement shall be given in writing and shall be deemed sufficiently given and served for all purposes when delivered, if (a) in person, (b) by facsimile (with the original delivered by other means set forth in this paragraph, (c) by generally recognized overnight courier or (d) by United States Mail, certified or registered mail, return receipt requested, postage prepaid, to the respective addresses set forth below, or to such other addresses as the parties may designate from time to time by providing written notice of the change to the other party.

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DEVELOPER	**DISTRICT**
Tesoro Viejo, Inc. Attn: Robert A. McCaffrey 7020 N. Van Ness Blvd. Fresno, CA 93711 (559) 256-7010 Fax: (559) 256-7010	Seyed Sadredin Executive Director/APCO 1990 E. Gettysburg Avenue Fresno, CA 93726 (559) 230-6000 Fax: (559) 230-6061

20. **Entire Agreement**

The terms of this Agreement, together with all attached exhibits, are intended by the parties as the complete and final expression of their agreement with respect to

such terms and exhibits and may not be contradicted by evidence of any prior or contemporaneous agreement. This Agreement specifically supersedes any prior written or oral agreements between the parties with respect to the subject matter of this Agreement.

21. **Amendments and Waivers**

No addition to or modification of this Agreement shall be effective unless set forth in writing and signed by the party against whom the addition or modification is sought to be enforced. The party benefited by any condition or obligation may waive the same, but such waiver shall not be enforceable by another party unless made in writing and signed by the waiving party.

22. **Invalidity of Provisions**

If any provision of this Agreement as applied to either party or to any circumstance shall be adjudged by a court of competent jurisdiction to be void or unenforceable for any reason, the same shall in no way affect (to the maximum extent permissible by law) any other provision of this Agreement, the application of any such provision under circumstances different from those adjudicated by the court, or the validity or enforceability of this Agreement as a whole. The parties further agree to replace any such invalid, illegal or unenforceable portion with a valid and enforceable provision, which will achieve, to the maximum extent legally possible, the economic, business or other purposes of the invalid, illegal or unenforceable portion.

23. **Construction**

Unless otherwise indicated, all paragraph references are to the paragraph of this Agreement and all references to days are to calendar days. Whenever, under the terms of this Agreement the time for performance of a covenant or condition falls upon a Saturday, Sunday or California state holiday, the time for performance shall be extended to the next business day. The headings used in this Agreement are provided for convenience only and this Agreement shall be interpreted without reference to any headings. Wherever required by the context, the singular shall include the plural and

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vice versa, and the masculine gender shall include the feminine or neuter genders, or vice versa. This Agreement may be executed in one or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. The language in all parts of this Agreement shall be construed as a whole in accordance with its fair meaning, and shall not be construed against any party solely by virtue of the fact that such party or its counsel was primarily responsible for its preparation.

24. **Governing Law**

This Agreement shall be governed by the laws of the State of California applicable to contracts made and to be performed in California.

25. **No Third-party Beneficiaries**

Nothing in this Agreement, express or implied, is intended to confer any rights or remedies under or by reason of this Agreement on any person other than the parties to it and their respective permitted successors and assigns, nor is anything in this Agreement intended to relieve or discharge any obligation of any third person to any party hereto or give any third person any right of subrogation or action over or against any party to this Agreement.

26. **Exhibits**

The exhibits attached to this Agreement shall be deemed to be a part of this Agreement and are fully incorporated herein by reference.

27. **Force Majeure**

The time within which any party shall be required to perform under this Agreement shall be extended on a day-per-day basis for each day during which such performance is prevented or delayed by reason of events reasonably outside of the control of the performing party, including, without limitation, acts of God, events of destruction, acts of war, civil insurrection, strikes, shortages, governmental delays, moratoria, civil litigation and the like, and/or delays caused by the non-performing party's act or omission.

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IN WITNESS WHEREOF, Developer and District have executed this Agreement and agree that it shall be effective as of the date first written above.

DEVELOPER

Tesoro Viejo, Inc.

By: _____
Robert A. McCaffrey
President

DISTRICT

San Joaquin Valley Unified Air Pollution Control District

_____
William O'Brien
Governing Board Chair

Recommended for approval:
San Joaquin Valley Unified Air Pollution Control District

_____
Seyed Sadredin
Executive Director/APCO

Approved as to legal form:
San Joaquin Valley Unified Air Pollution Control District

_____
Catherine Redmond
District Counsel

Approved as to accounting form:

_____
Cindi Hamm
Director of Administrative Services

For accounting use only:
San Joaquin Valley Unified Air Pollution Control District

Program: _____
Account No: _____

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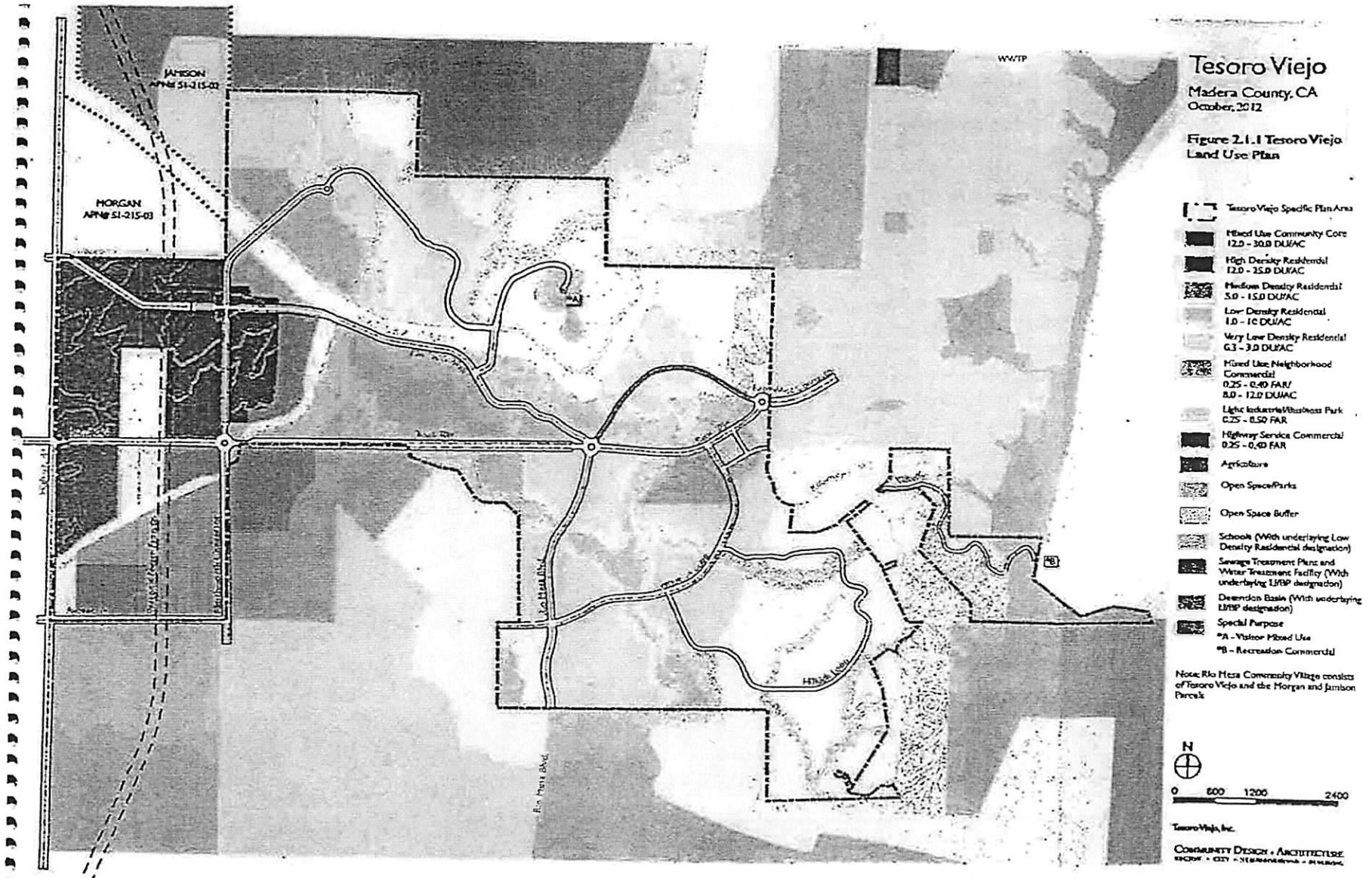
EXHIBIT A

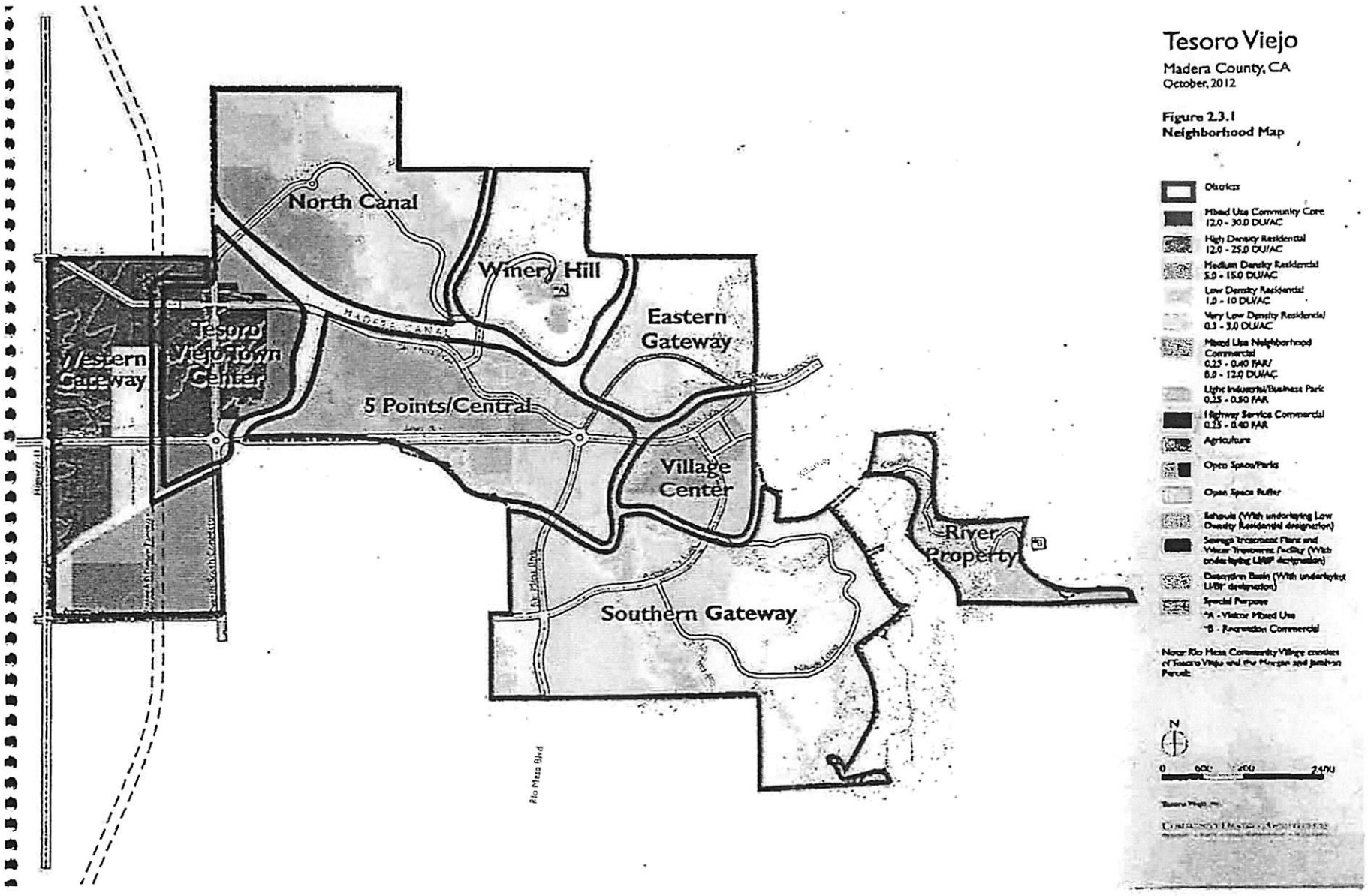
DESCRIPTION OF THE PROJECT

The Tesoro Viejo Specific Plan Project site is located in southeastern Madera County, approximately 9 miles north of the City of Fresno and 13 miles east of the City of Madera. The Project Site is bordered by the San Joaquin River to the east, State Route (SR) 41 to the west, Little Table Mountain to the north, and the Coombs Ranch to the south in an area known as Rio Mesa. The Project Site is located on two U.S. Geological Survey (USGS) topographic maps, which are the Lanes Bridge and Friant California quadrangle maps. The Project would involve development of a property known locally as the Peck Ranch. The project proposes a mix of residential, commercial retail, office, highway commercial, visitor commercial, light industrial and business park uses, in addition to open space and recreational uses, schools, and other institutional and public uses. The project proposes a mixed-use development consisting of up to 5,190 dwelling units (du), about 3 million square feet of commercial, retail, office, public institutional, and light industrial uses, and approximately 218 acres of mapped open space, not including approximately 128 acres of open space and recreational areas associated with boulevards, trails, and neighborhood parks that would be incorporated in the developed areas (open space buffers). Another 37 acres would be set aside for utilities and stormwater facilities (including detention basins), and at least up to 60 acres for schools.

The population at project buildout is projected to be up to 15,650 residents, assuming development of a maximum of 5,190 dwelling units with nonresidential development involving from 6000-7000 jobs in accordance with the County's jobs-housing balance requirements. Full project buildout is assumed to be completed by 2025 for purposes of the analysis prepared for the REIR. See the following pages for additional content from the Specific Plan

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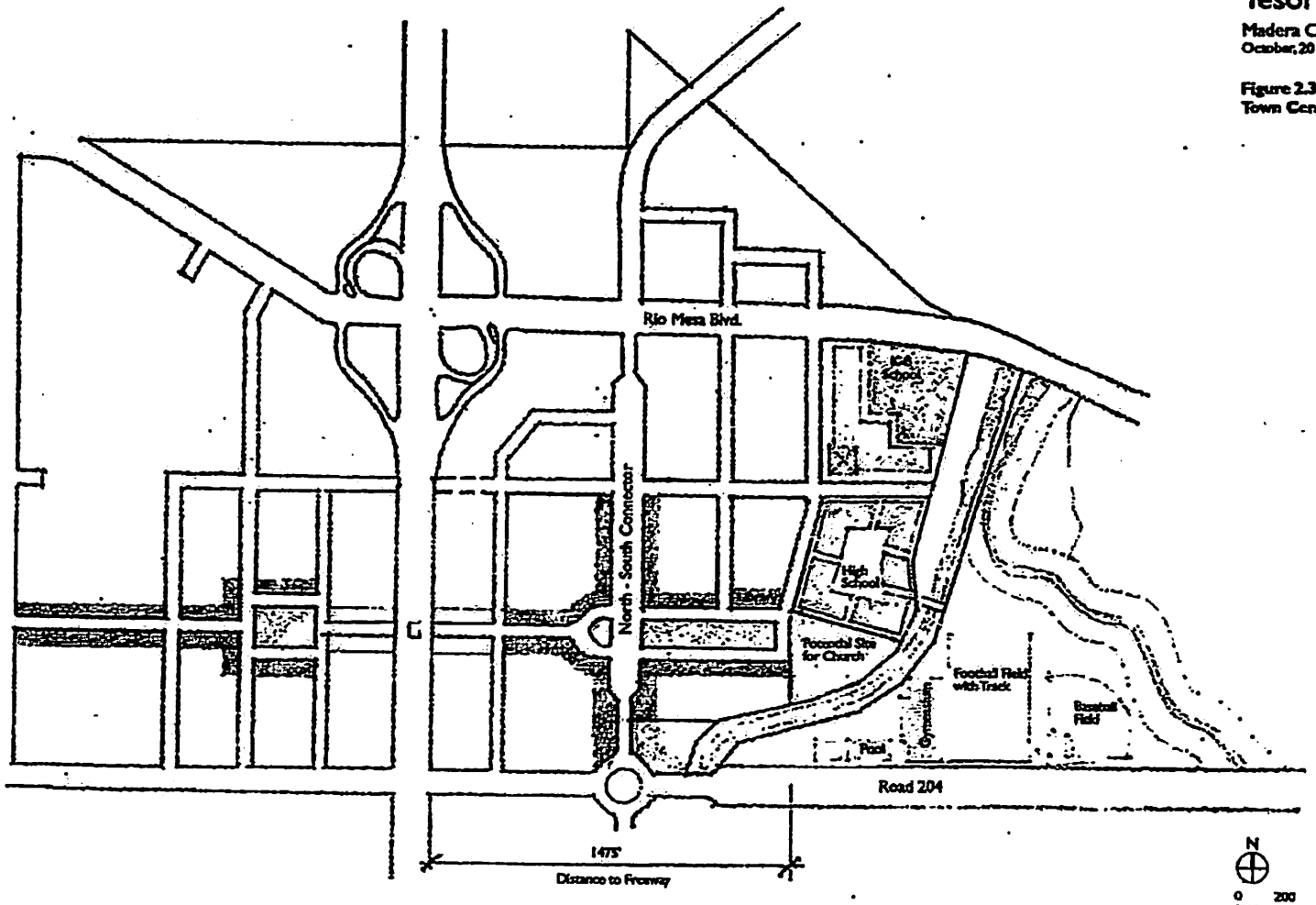

JAMISON
APN# 51-215-03
MORGAN
APN# 51-215-03
WWTP
Tesoro Viejo
Madera County, CA
October, 2012
Figure 2.1.1 Tesoro Viejo
Land Use Plan
Tesoro Viejo Specific Plan Area
Mixed Use Community Core
12.0 - 30.0 DU/AC
High Density Residential
12.0 - 25.0 DU/AC
Medium Density Residential
5.0 - 15.0 DU/AC
Low Density Residential
1.0 - 10 DU/AC
Very Low Density Residential
0.3 - 3.0 DU/AC
Mixed Use Neighborhood Commercial
0.25 - 0.40 FAR/
8.0 - 12.0 DU/AC
Light Industrial/Business Park
0.25 - 0.50 FAR
Highway Service Commercial
0.25 - 0.40 FAR
Agriculture
Open Space/Parks
Open Space Buffer
Schools (With underlying Low Density Residential designation)
Sewage Treatment Plant and Water Treatment Facility (With underlying LI/BP designation)
Detention Basin (With underlying LI/BP designation)
Special Purpose
*A - Visitor Mixed Use
*B - Recreation Commercial
Note: Rio Mesa Community Village consists of Tesoro Viejo and the Morgan and Jamison Parcels
N
0
600
1200
2400
Tesoro Viejo, Inc.
COMMUNITY DESIGN + ARCHITECTURE


North Canal
Winery Hill
Eastern Gateway
Western Gateway
Tesoro Viejo Town Center
5 Points/Central
Village Center
River Property
Southern Gateway
Rio Mesa Blvd
Tesoro Viejo
Madera County, CA
October, 2012
Figure 2.3.1
Neighborhood Map
Districts
Mixed Use Community Core
12.0 - 30.0 DU/AC
High Density Residential
12.0 - 25.0 DU/AC
Medium Density Residential
5.0 - 15.0 DU/AC
Low Density Residential
1.0 - 10 DU/AC
Very Low Density Residential
0.3 - 3.0 DU/AC
Mixed Use Neighborhood Commercial
0.25 - 0.40 FAR/
8.0 - 12.0 DU/AC
Light Industrial/Business Park
0.25 - 0.50 FAR
Highway Service Commercial
0.25 - 0.40 FAR
Agriculture
Open Space/Parks
Open Space Buffer
Schools (With underlying Low Density Residential designation)
Sewage Treatment Plant and Water Treatment Facility (With underlying LMDP designation)
Detention Basin (With underlying LMDP designation)
Special Purpose
*A - Visitor Mixed Use
*B - Recreation Commercial
Note: Rio Mesa Community Village consists of Tesoro Viejo and the Morgan and Jamison Parcels
N
0
2400

Tesoro Viejo

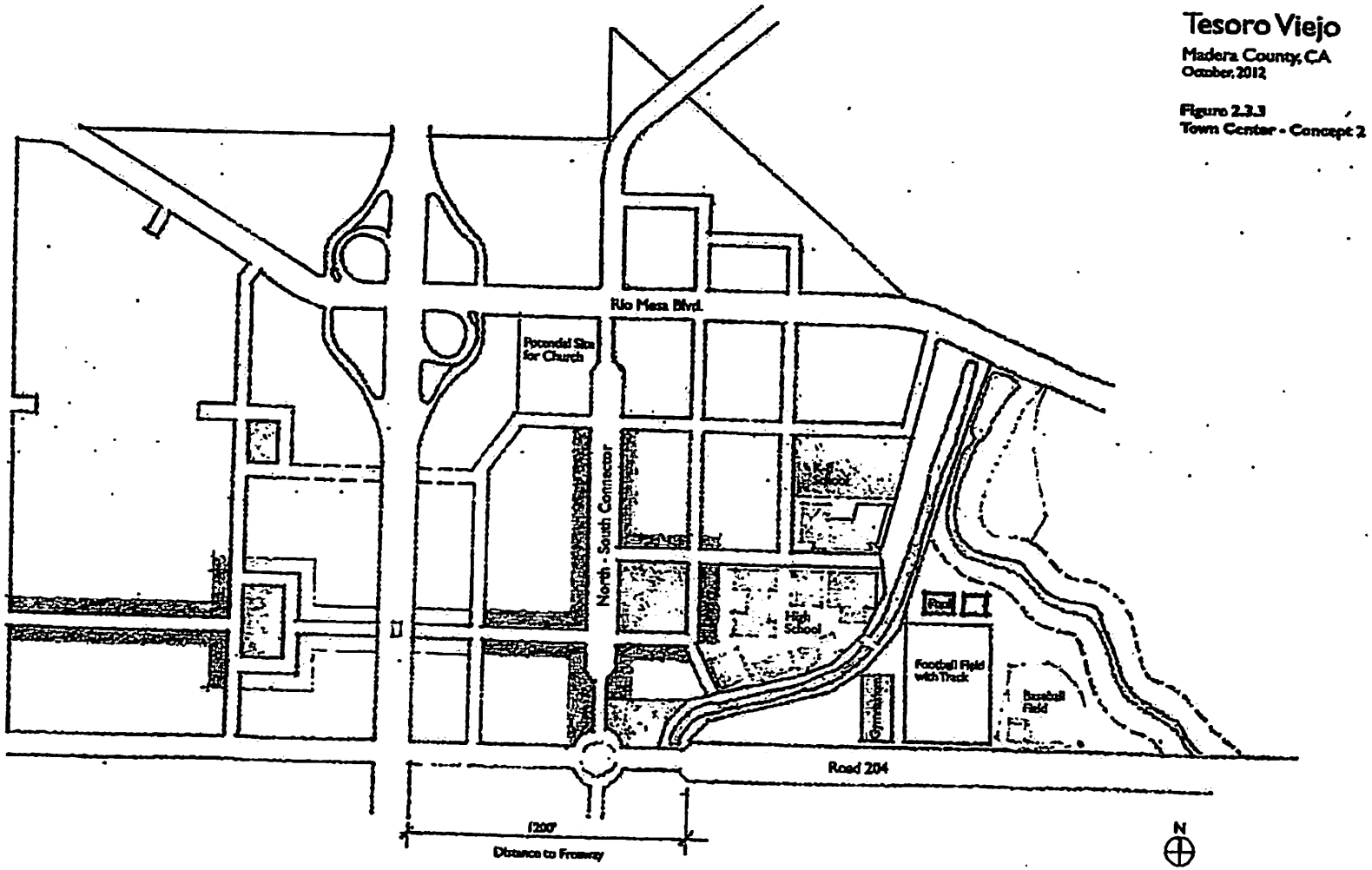
Madera County, CA
October, 2012

Figure 2.3.2
Town Center - Concept 1



Tesoro Viejo, Inc.

Community Design + Architecture



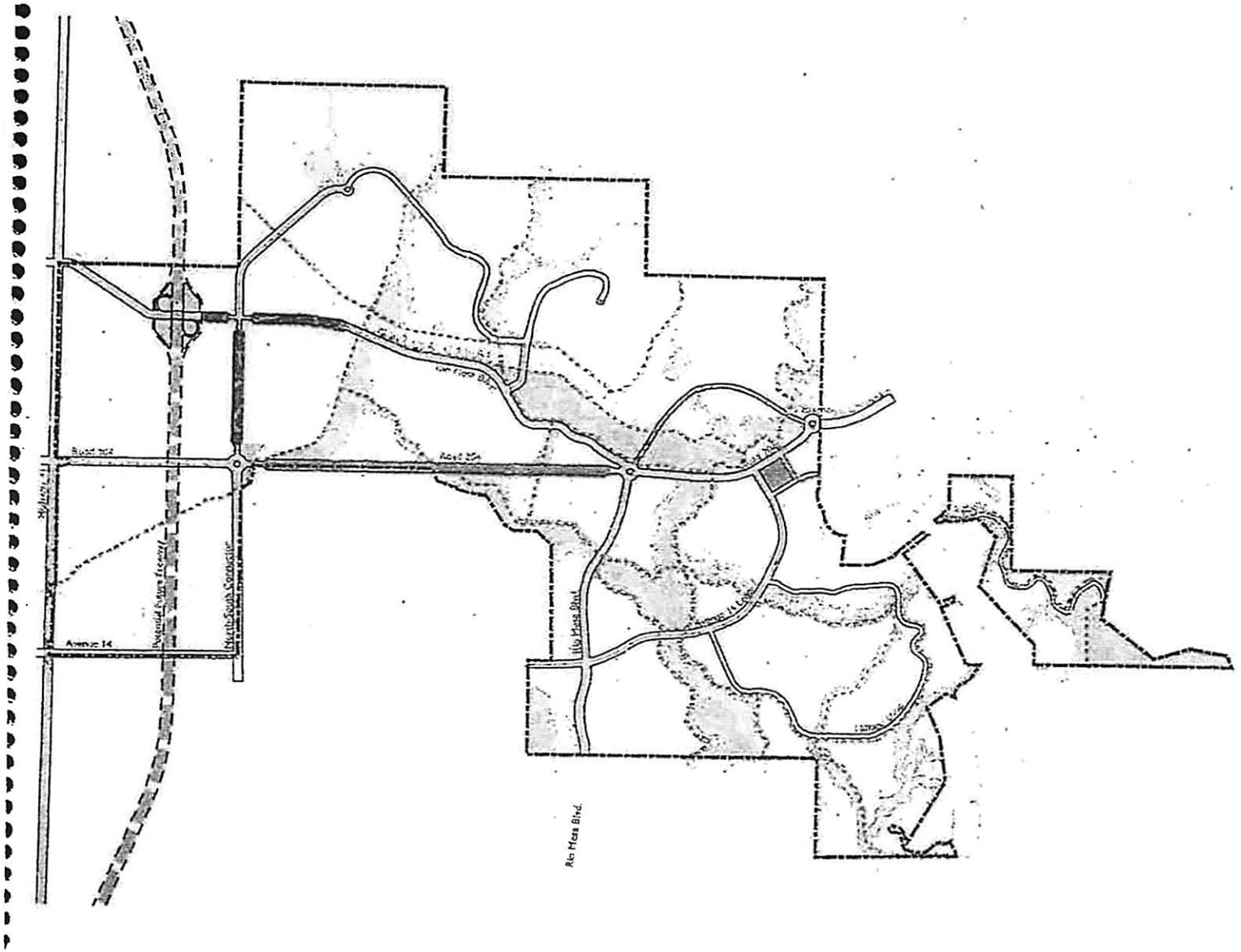
Tesoro Viejo

Madera County, CA
October, 2012

Figure 2.3.3
Town Center - Concept 2

Tesoro Viejo, Inc.

Community Design + Architecture


Tesoro Viejo
Madera County, CA
October, 2012
Figure 4.1 Circulation and Road Type Diagram with Primary Open Space
Tesoro Viejo Village
Collector w/o Median (Very Low Density Residential)
Collector w/o Median
Collector w/ Median
Collector w/ Continuous Left Turn Lane
Boulevard w/ Median
Boulevard w/ Two Medians
Core Boulevard
Four-Lane Arterial w/ Median
Potential Future Freeway
Trails
Primary Open Space/Park
Open Space Buffer
N
0
600
1200
2400
Tesoro Viejo, Inc.
Community Design + Architecture
Avenue 14
Potential Future Freeway
North-South Connector
Rio Mesa Blvd.

2 COMMUNITY DEVELOPMENT PLAN

The Tesoro Viejo Specific Plan incorporates elements of community design, land use, parks and open space, traffic and circulation, and public facilities and services into a comprehensive plan that implements the project vision.

2.1 Land Use Plan

The Tesoro Viejo Project will contain between 3,800 and 5,190 dwelling units, with a target of at least 4,600 dwelling units. (See Tesoro Viejo Program Summary – Table 2.1 and Figure 2.1.1 - Tesoro Viejo Land Use Plan) Residential development will involve a range of densities generally based on designations in the Rio Mesa Area Plan and the General Plan Land Use Element. Most of the units will be in the low and medium density residential use categories, but there will also be a sizeable number of high density units in and around the community core and a subsidiary neighborhood core. The Tesoro Viejo Project will also include up to about 3.0 million square feet of non-residential space, including highway service or large format commercial uses along Highway 41, commercial retail and office uses in the community core, and a small amount of neighborhood, visitor-serving and recreational commercial use. In addition, there would be public and institutional uses such as schools, public service offices and facilities, religious uses, and utility buildings and structures. When completely occupied, the Tesoro Viejo Project will accommodate an estimated 11,500 to 15,650 people, with a school age population of approximately 2,600 to 3,400 students based on projections by the Chawanakee Unified School District (the Project Sponsor anticipates school enrollment at the lower number at full buildout as permitted). The Tesoro Viejo Project area itself is planned to be able to accommodate up to three K-8 school sites, including one site in the Town Center. A site is also reserved in the Town Center for a high school. The sites in the Town Center will probably be developed first and others as enrollment justifies. The Tesoro Viejo Project will also include over 200 acres of specifically identified dedicated open space plus additional buffer areas, totaling over 128 acres guaranteed to remain in open space although included in parcels allowed to be developed to which density is allocated. These open spaces and buffers include existing natural drainages and biological resource areas. In addition, about 200 acres of additional open space and recreational uses would be incorporated into the Town Center and residentially designated areas, boulevards, trails and neighborhood parks.

Two areas are identified for possible special purpose mixed uses because of the unique opportunities for visitor-serving and recreational uses. One area, identified as Special Purpose Area A on the Land Use Plan, is the highest point on the property. This is viewed as having the potential for a combination of hilltop residential uses with a winery, restaurant, and/or inn. A location for recreational uses is identified on the banks of the San Joaquin River where the opportunity for a low-intensity visitor serving recreational use is envisioned, possibly involving a cafe or self-service vending retreat, along with recreational uses oriented towards the river, such as canoe and kayak storage and/or rentals and a pull-in/pull-out facility, along with a small parking facility and/or a possible

clubhouse serving club members and/or campsites. In any event a portion of this area will be available for public access along a trail anticipated to be part of the regional trail system planned to the north and south. But at the present time the Project Sponsor is unable to assure public access to this area or any trail connection from west to east by reason of lack of control of points of access to the north and south and court decisions limiting public access from property to the west owned by the Project Sponsor through the Sumner Hill subdivision to the portion of the property on the east adjacent to the river. Accordingly, public access will depend upon what happens in nearby properties or what is achieved by public agencies.

The Proposed Circulation Plan has been based upon the Rio Mesa Area Plan, with adjustments to ensure consistency with the principles of the Specific Plan. Various refinements and modifications have also been made to adjust both for plans anticipated to the north and south in accordance with the Rio Mesa Area Plan. The objectives of the Tesoro Viejo Land Use Plan have been paramount, especially the latter's emphasis on community cohesiveness around a community core which is as accessible as possible by non-vehicular means for residents of Tesoro Viejo and adjoining villages. The Circulation Plan (Figure 4.1) also indicates the plan for an extensive trail network which would provide connections among all the residential and nonresidential areas and to open spaces and parks, as well as to the community core. Trail connections to the San Joaquin River through adjoining properties will be made as opportunities present themselves. Adjustments to the Circulation Plan can be made as adjoining landowners move forward and seek County approvals.

2.2 *Specific Plan Goals and Objectives*

2.2.1 Land Use

GOAL 1: Provide a viable and balanced mix of regional and local-serving commercial and employment uses.

GOAL 2: Encourage properly designed mixed-use and residential neighborhoods to insure compatibility with and transportation choices for access to residential and non-residential uses by creating a pedestrian-supportive environment that activate Tesoro Viejo's streets.

GOAL 3: Create a vibrant mixed use community core that provides for the needs of the all residents and visitors to the Rio Mesa area, serving as the major Community Center for Rio Mesa, containing all major public and community services.

GOAL 4: Create an attractive and easily accessible neighborhood-serving Village Center within the eastern center of the community that meets the convenience needs of nearby residents of Tesoro Viejo neighborhoods and adjacent villages.

GOAL 5: Reflect anticipated marketing needs and public demand by providing a diversity of housing types and locations that will be marketable within the region.

GOAL 6: Promote a diverse community and create opportunities for housing near workplaces.

GOAL 7: Provide development guidelines and standards to lead builders, designers, and developers to create residential neighborhood and individual homes that encourage diverse and creative housing types and ensure the highest possible quality of community and architectural design.

GOAL 8: Encourage the creation of fine-grained detail in architectural and urban form that provides visual interest and complexity.

GOAL 9: Provide detached and attached housing to serve a spectrum of buyers and household types, and to provide "move-up" and "move-down" opportunities for present residents in the vicinity and the surrounding region.

GOAL 10: Provide an opportunity for high density, multi-family housing near and within the mixed use employment center of Tesoro Viejo.

2.2.2 Transportation and Circulation

GOAL 11: Design multimodal streets that effectively facilitate vehicular traffic and future transit connections but also provide for a safe, attractive and continuous pedestrian and bicycle circulation system throughout Tesoro Viejo.

GOAL 12: Design roadways to be aesthetically and environmentally sensitive features of Tesoro Viejo.

GOAL 13: Minimize or eliminate the need for wide arterial streets by creating an interconnected circulation network that distributes traffic across many streets while providing the capacity necessary to accommodate the levels and types of traffic anticipated in the land use plan and those of the surrounding area.

GOAL 14: Plan pedestrian-oriented mixed use areas that maintain an adequate level of parking and access for automobiles, but that encourage a park-once approach that minimizes the total demand for parking.

GOAL 15: Create a circulation network that is interconnected with the regional transportation system.

GOAL 16: Design all streets with the intention that land uses will front directly on them by using landscape medians, setbacks, and local access lanes on streets with higher levels of through traffic volume.

GOAL 17: Create a network of multi-use and hiking trails along Tesoro Viejo's open space corridors that complements the walkways and paths along the community's streets in order to encourage walking and bicycling for transportation and recreation.

2.2.3 Community Facilities and Services

GOAL 18: Create high-quality schools, parks, libraries, police and fire stations, public utility centers, post-offices and similar community facilities that are integrated into the mixed use centers of Tesoro Viejo; these uses will be key assets of the community and their design and quality must reflect their importance.

GOAL 19: Provide a high level of community facilities and services and utility services and infrastructure that will be phased in accordance with development.

GOAL 20: Provide the appropriate level of county and district services within Tesoro Viejo to meet the needs of its residents, businesses, and workers; and that also reflects the importance of Tesoro Viejo Town Center within Southeastern Madera County.

2.2.4 Natural, Cultural, and Recreational Resources

GOAL 21: Preserve features and resources of environmental and cultural value to enhance the future identity and value of Tesoro Viejo as a community.

GOAL 22: Identify, preserve and incorporate significant natural features such as channels, bluffs, rock outcroppings, and steep slopes into a functional open space system that is integrated into the community plan.

GOAL 23: Preserve significant biological, archaeological, and paleontological resources in a manner to reflect their importanee.

GOAL 24: Establish conservation areas along drainage ways to provide an effective buffer between new development and sensitive biological and wildlife resources while allowing these areas to be a visual and recreational amenity.

GOAL 25: Create and maintain access to the San Joaquin River for both residents and visitors to the extent possible within the control of the Project Sponsor and County.

GOAL 26: Meet and, as appropriate, exceed the parks and recreation standards of Madera County.

GOAL 27: Adopt "Green Building" practices for site and building design that focus on resource and energy efficiency, and where feasible, treatment of irrigation and stormwater runoff through natural, landscape-based processes.

GOAL 28: Use of reclaimed water for landscape irrigation and other non-potable water uses for parkways, open space areas, and agricultural uses is strongly encouraged.

GOAL 29: To the extent feasible, provide for the future use of reclaimed water for landscape irrigation within the developed areas of Tesoro Viejo.

GOAL 30: Emphasize planting of native trees, shrubs and groundcovers suitable to climatic conditions while still providing visual interest and variety.

2.2.5 Agricultural Resources

GOAL 31: Encourage some continued vineyard, orchard and farming operations where feasible by clustering of dwellings and infrastructure to allow open space preservation and functional agricultural use for local community sustenance and interest.

GOAL 32: Encourage sustainable methods of local food production to sustain both local business and the health of the land and seek to incorporate farmer's markets into local commercial activities and edible gardens into schools and open squares.

GOAL 33: Promote opportunities for youth education and employment in agriculture.

2.2.6 Economic Vitality

GOAL 34: Develop a set of permitted commercial and employment uses within Tesoro Viejo that provide a wide range of employment and shopping opportunities for existing and future residents of Madera County.

GOAL 32: Enhance the vitality of the Town Center by encouraging uses that allow for safe around-the-clock activity that makes it an attractive environment for shopping, entertainment, recreation, living, and working.

GOAL 33: Encourage job creation and self-employment opportunities to ensure a vital and self-sustaining town.

EXHIBIT B

EMISSION REDUCTION DESIGN FEATURES

The project shall incorporate the following Emission Reduction Design Features:

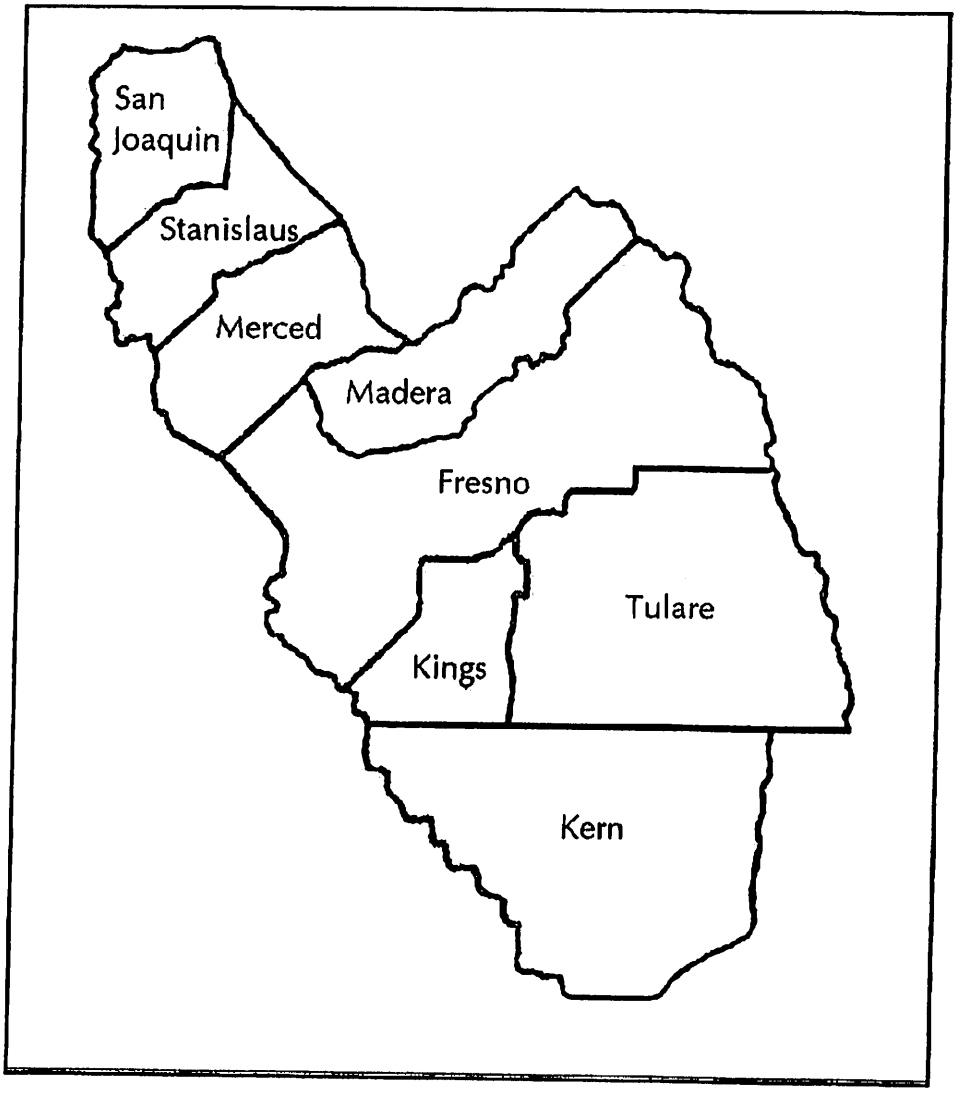
- Provide a viable and balanced mix of regional and local-serving commercial and employment uses.
- Encourage properly designed mixed-use and residential neighborhoods to insure compatibility with and transportation choices for access to residential and nonresidential uses by creating a pedestrian-supportive environment that activate Tesoro Viejo's streets.
- Promote a diverse community and create opportunities for housing near workplaces.
- Provide an opportunity for high-density, multi-family housing near and within the mixed-use employment center of Tesoro Viejo.
- Design multimodal streets that effectively facilitate vehicular traffic and future transit connections, but also provide for a safe, attractive and continuous pedestrian and bicycle circulation system throughout Tesoro Viejo.
- Minimize or eliminate the need for wide arterial streets by creating an interconnected circulation network that distributes traffic across many streets while providing the capacity necessary to accommodate the levels and types of traffic anticipated in the land use plan and those of the surrounding area.
- Plan pedestrian-oriented mixed-use areas that maintain an adequate level of parking and access for automobiles, but that encourage a park-once approach that minimizes the total demand for parking.
- Create a circulation network that is interconnected with the regional transportation system.
- Create a network of multi-use and hiking trails along Tesoro Viejo's open space corridors that complements the walkways and paths along the community's streets in order to encourage walking and bicycling for transportation and recreation.

See also the Tesoro Viejo Specific Plan for more detailed information regarding design features and design standards that apply to the project.

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EXHIBIT C

DISTRICT BOUNDARIES



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GOVERNING BOARD

Skip Barwick, Chair
Councilmember, City of Tulare

Hub Walsh, Vice Chair
Supervisor, Merced County

Oliver L. Baines III
Councilmember, City of Fresno

Tony Barba
Supervisor, Kings County

Sally J. Bomprezzi
Councilmember, City of Madera

Dennis Brazil
Mayor, City of Gustine

Judith G. Case
Supervisor, Fresno County

David Couch
Supervisor, Kern County

Bob Elliott
Supervisor, San Joaquin County

Harold Hanson
Councilmember, City of Bakersfield

William O'Brien
Supervisor, Stanislaus County

Alexander C. Sherriffs, M.D.
Appointed by Governor

Tom Wheeler
Supervisor, Madera County

J. Steven Worthley
Supervisor, Tulare County

Seyed Sadredin
Executive Director
Air Pollution Control Officer

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Central Region Office
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Fresno, CA 93726-0244
(559) 230-6000 • FAX (559) 230-6061

Southern Region Office
34946 Flyover Court
Bakersfield, CA 93308-9725
(661) 392-5500 • FAX (661) 392-5585

www.valleyair.org

DATE: April 18, 2013

TO: SJVUAPCD Governing Board

FROM: Seyed Sadredin, Executive Director/APCO
Project Coordinator: Dave Warner

RE: **ITEM NUMBER 8: APPROVE VOLUNTARY EMISSION REDUCTION AGREEMENT WITH MERITAGE HOMES OF CALIFORNIA, INC.TO RECEIVE FUNDS IN THE AMOUNT OF APPROXIMATELY $1,940,000 FOR THE PURPOSE OF MITIGATING AIR QUALITY IMPACTS OF THE PROPOSED "PILLSBURY ESTATES" DEVELOPMENT PROJECT**

RECOMMENDATION:

1. Approve and authorize the Chair to sign the Voluntary Emission Reduction Agreement with Meritage Homes of California, Inc.

2. Authorize staff to identify, fund and manage air quality projects that will fully mitigate the project criteria pollution impacts.

BACKGROUND:

Since 2005, the District has entered into Voluntary Emission Reduction Agreements (VERA) with developers to mitigate the air impacts of their development projects. These agreements benefit air quality by achieving additional reductions in emissions. The District has entered into 18 VERAs, and to date has received $12,434,671.78 in revenues. Currently, projects funded by the District achieved total emission reductions of 1,089.20 tons of NOx, 128.31 tons of VOC, and 37.10 tons of PM10. The agreement before you today is similar to the previous agreements approved by your Board.

Representatives of Meritage Homes of California, Inc. have approached the District with a request for assistance in mitigating the air quality impacts of their development project proposed in San Joaquin County. Per the agreement, the District will review and identify acceptable air quality impact analysis methods and procedures, and verify and manage consultant provided emission reduction projects, or identify and manage other emission reduction projects, to fully mitigate the air quality impact of criteria pollutants from the proposed project.

The Pillsbury Estates project (Tract No. 3512) is an approved 80.1 acre, 203 lot single family residential (R-1) zoning project that allows for an additional 71 lots upon rezone of the two adjacent parcels (currently R-3 and R-4 zoning). The project is located in the City of Manteca, County of San Joaquin and received its project approvals in 2007. As proposed, the project will be phased over six years with construction commencing in Spring 2013 and completion targeted for Spring of 2019.

DISCUSSION:

The County of San Joaquin has approved an Environment Impact Report (EIR) for the Pillsbury Estates development project, which includes an assessment of the project's impact on air quality, addressing criteria pollutant emissions and public health/hazard impacts for both construction and longer-term operational impacts, and mitigation opportunities. The District has also received an application from Meritage Homes of California Inc., to determine compliance with District Rule 9510, Indirect Source Review. District staff will use these sources of information to quantify emissions of each phase of construction as it is proposed.

One of the prerequisites of entering into a Voluntary Emission Reduction Agreement with the District is to include all feasible measures to reduce emissions at the project site. Fugitive dust emissions from construction activities will be mitigated onsite by complying with the requirements specified in the District's Regulation VIII and with the use of cleaner construction equipment when available. Including design features that facilitate and encourage alternate forms of transportation and increase energy efficiency can mitigate operational emissions. Specific onsite operational mitigation features agreed by Meritage Homes of California, Inc. are provided in the agreement.

After accounting for the benefit of the onsite mitigation measures, Meritage Homes of California, Inc. will provide monies to the District to fund projects to fully and permanently mitigate project emissions of oxides of nitrogen (NOx), reactive organic gases (ROG), and fine particulate matter (PM10) emissions off-site. Given our experience in administering grants for emission reduction projects, with adequate funding, the District can bring about sufficient emission reductions from existing sources of emissions to fully and permanently mitigate the air emissions from this development project. The emission reduction projects will permanently reduce emissions, because even after the useful life of the project has ended, the funded equipment, device or vehicle

will be replaced with equipment, devices or vehicles that are as clean or cleaner than the original.

Meritage Homes of California, Inc. has not provided the District a list of potential off-site emission reduction projects, although they have the option to do so at a later date under this agreement. In addition, District-identified projects are generally more cost-effective than this schedule, and therefore, actual funds received by the District may be less than estimated. Projects proposed by Meritage Homes of California, Inc. will be verified by the District to ensure that reductions are valid and each project will be field inspected by the District prior to and after installation. The District will also perform long term monitoring of the projects to ensure the emissions remain in place during the period of the agreement. Whether Meritage Homes of California, Inc. or the District identifies projects, all will be under contract with the District to ensure their enforceability.

The dollar value of this agreement is based on the emissions, as estimated by the EIR, multiplied times the emission reduction schedule contained in Section 2 of the agreement.

The EIR prepared for the project provided the following criteria pollutant emission estimates:

ROG	7.67	tons/year
NOx	6.47	tons/year
PM10	6.03	tons/year
Total	20.17	tons/year

As presented below, the District would receive an estimated $1,940,071. This amount includes a four percent (4%) administrative fee to cover the District's costs of administering the program:

Mitigation Fees	$	1,865,453
Admin. Fee (4%)	$	74,618
Total	$	1,940,071

The total funds identified in this memorandum reflect the District's and developer's best estimate, and may increase in the future if it becomes necessary to reduce more emissions due to projects costing more than expected, or be reduced if projects are obtained at a lower cost than anticipated in the VERA fee schedule. It should be noted that, thus far, the District has been able to fund projects that are significantly more cost effective than this estimate.

All funds collected will be used for emission reduction projects that will fully mitigate the air quality impact of criteria pollutants from the proposed project. The emission reduction projects will be in place contemporaneously with the development and will

directly provide air quality benefits in the San Joaquin Valley. The District will establish a separate budgetary account for these mitigation funds, and will provide routine tracking and status reports documenting fund expenditures and the emissions reductions achieved for the development project.

FISCAL IMPACT:

Under the terms of the agreement, Meritage Homes of California, Inc. is expected to pay to the District approximately a total of $1,865,453 in mitigation fees and $74,618 in administrative fees for a total of $1,940,071, in the year 2013 or later. Meritage Homes of California, Inc. may pay the mitigation fees in sufficient amounts to mitigate the entire project, or may choose to pay fees prior to initiating each phase of the project. Fees must be paid no later than applying to the Lead Agency for the first construction permit, and before occurrence of the first project related emissions generating activity, for the Project or phase of the Project. Staff will present adjustments to the District's budget for the Board's consideration at the appropriate times to coordinate the receipt of mitigation funds and the expenditure of those funds in accordance with the Voluntary Emission Reduction Agreement.

Attachment: Meritage Homes Voluntary Emission Reduction Agreement (20 pages)

San Joaquin Valley Unified Air Pollution Control District
Meeting of the Governing Board
April 18, 2013

APPROVE VOLUNTARY EMISSION REDUCTION AGREEMENT WITH MERITAGE HOMES OF CALIFORNIA, INC.TO RECEIVE FUNDS IN THE AMOUNT OF APPROXIMATELY $1,940,000 FOR THE PURPOSE OF MITIGATING AIR QUALITY IMPACTS OF THE PROPOSED "PILLSBURY ESTATES" DEVELOPMENT PROJECT

Attachment:

MERITAGE HOMES VOLUNTARY EMISSION REDUCTION AGREEMENT
20 PAGES

VOLUNTARY EMISSION REDUCTION AGREEMENT 20130088

This Voluntary Emission Reduction Agreement ("Agreement") is entered into as of April 18, 2013 by and between Meritage Homes of California, Inc. ("Developer") and the SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT, an air pollution control district formed pursuant to California Health and Safety Code section 40150, et seq. ("District").

RECITALS

WHEREAS, the County of San Joaquin approved the development of a Project known as "Pillsbury Estates", located in the County of San Joaquin, California, as more particularly described on Exhibit A attached hereto (the "Project") in 2007; and

WHEREAS, the Project incorporates the design features specified on Exhibit B attached hereto and incorporated herein ("Emission Reduction Design Features"), in order to significantly reduce the air quality impacts associated with the Project; and

WHEREAS, despite incorporation of the Emission Reduction Design Features, without additional emission reductions, the Project would cause impacts on air quality within the geographical boundaries of the San Joaquin Valley Unified Air Pollution Control District, as depicted on Exhibit D attached hereto and incorporated herein (the "District Boundaries"); and

WHEREAS, Developer has volunteered additional emission reductions as a means of reducing such impacts; and

WHEREAS, Developer desires to fully comply with all requirements of the California Environmental Quality Act codified at California Public Resources Code section 21000, et seq. ("CEQA"), including all requirements relating to the mitigation of air quality impacts arising from or in connection with the Project and each Project Phase; and

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1990 E. Gettysburg
Fresno, CA 93726
(559) 230-6000

WHEREAS, District is an air pollution control district formed by the counties of Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus and Tulare, pursuant to California Health and Safety Code section 40150, et seq.; and

WHEREAS, District is responsible for developing and implementing air quality control measures within the District Boundaries, including air quality control measures for stationary sources, transportation sources, and indirect sources; and

WHEREAS, District has determined that with appropriate funding, District can provide reductions of emissions from certain projects in types and in sufficient quantities to fully mitigate the net air quality criteria pollutant impacts of the Project as quantified in Paragraph 1 below ("Mitigation of Project Related Impacts on Air Quality"); and

WHEREAS, Developer and District desire to enter into this Agreement in order to develop and implement air quality control measures which will fully mitigate the Project's Air Impact so that the development of such Project will result in no net increase in criteria pollutant emissions over the criteria pollutant emissions which would otherwise exist without the development thereof.

AGREEMENT

NOW THEREFORE, in exchange of the mutual covenants herein contained, Developer and District hereby agree as follows:

1. **Mitigation of Project Related Impacts on Air Quality**

Project related impacts shall be mitigated by achieving surplus, quantifiable and enforceable reductions of ROG, NOx, and PM_{10} in accordance with Paragraph 2 (collectively, "mitigation measures"). The determination of whether proposed emission reductions are surplus shall be performed by the District through its Strategy and Incentives Department. Project related air quality impacts as estimated in Exhibit C, which is attached hereto and incorporated herein, shall be fully mitigated. Fewer emission reductions than identified by the Lead Agency may be provided as mitigation

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if: (1) the Lead Agency approves a revised air quality impact assessment, demonstrating that Project or Project Phase related air quality impacts are less than originally quantified; or (2) the Lead Agency Governing Body certifies a new environmental assessment demonstrating that Project or Project Phase related impacts are less than originally quantified; or (3) Developer reduces the size of Project and surrenders the associated entitlements.

Developer may mitigate Project related air quality impacts by any combination of the following: 1) providing District with Emission Reduction Proposals and sufficient funds to execute the proposals, or 2) paying Air Quality Mitigation Fees to the District. Developer may mitigate all Project related air impacts at one time, or Developer may mitigate Project related impacts consistent with defined project phases (Project Phase). For the purpose of this agreement, a Project Phase is any subset of the total project which would result in air emissions and which is approved by the Lead Agency. If Developer mitigates all Project related impacts at once, Developer must provide District with sufficient mitigation measures to fully mitigate the entire Project no later than applying to Lead Agency for the first construction permit and before occurrence of the first project related emissions generating activity for Project. If Developer mitigates Project related impacts in phases, Developer must provide District with sufficient mitigation measures to fully mitigate each Project Phase before generating emissions. If Developer mitigates Project related impacts in phases, Developer must submit to District an air quality impact analysis for each Project Phase that quantifies the emissions to be mitigated.

2. **Mitigation Measures**

District shall credit Developer for all air quality mitigation measures brought about by this Agreement, including any emission reductions District achieves prior to the date Developer receives final approval of the Project from all applicable Governmental Authorities.

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2.1. **Emission Reduction Proposals submitted by Developer**

Developer shall submit complete Emission Reduction Proposals to District on District's approved application forms. Each Emission Reduction Proposal shall contain the following: (1) an estimate of emission reductions to be achieved; (2) an estimated funding cost; and (3) a representation by Developer that the owner/operator of the identified emission reduction proposal equipment has expressed interest in entering into a written Funding Agreement with the District. Representation is in the form of a signed and complete District emission reduction project application(s).

On the date of submittal of each Emission Reduction Proposal, Developer shall advance to District a monetary sum equal to the total estimated cost specified in the Emission Reduction Proposal ("Emission Reduction Proposal Advance") plus an administrative fee of four (4) percent. District shall use Emission Reduction Proposal Advance(s) to execute Funding Agreements, as set forth in Paragraph 3 (Funding Agreements).

2.2. **Emission Reduction Proposals initiated by the District**.

Developer may request in writing for District to identify Emission Reduction Proposals on behalf of Developer. On the date of the request, Developer shall advance to District a monetary sum equal to District's estimated cost per ton, as set forth in Table 1 (Emission Reduction Cost Schedule) multiplied times the number of tons of emission reductions to be achieved ("Air Quality Mitigation Fee"), plus an administrative fee of four (4) percent. District will identify Emission Reduction Proposals from District's Strategy and Incentives Department and use said Air Quality Mitigation Fees to achieve emission reductions in behalf of Developer.

Table 1 Emission Reduction Cost Schedule

Pollutant	Fee Rate $/ton
NOx or ROG	$93,500
PM10	$90,110

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3. **Funding Agreements**

Upon Developer's submission to District of each Emission Reduction Proposal Advance or Air Quality Mitigation Fee, District shall (1) shall use diligent efforts to enter into Funding Agreements with the owners and/or operators of the pollution source equipment as identified in the Emission Reduction Proposals, within one hundred eighty (180) days of receiving funding; (2) determine the types and quantities of permanent reduction in emissions which would be realized by the Emission Reduction Proposals; (3) shall perform the determination of surplus emission reductions of ROG, NOx, and PM10; and (4) shall advise Developer of such determination in writing.

District shall notify Developer or designee in writing of Funding Agreements entered into by the District. In the event District is unable to achieve the required reductions District shall provide Developer a written statement of the amount of reductions that have been achieved. Developer shall have a reasonable time, not to exceed ninety (90) days, within which to submit to District additional Emission Reduction Proposal(s); or provide District additional Air Quality Mitigation Fee(s).

4. **Unused Emission Reduction Proposal Advance**

If District is unable to enter into Funding Agreements with owners or operators identified in Developer's Emission Reduction Proposals, or if requested by Developer in writing, District may use any unused portion of Developer's Emission Reduction Proposal Advance to fund Emission Reduction Proposals per Paragraph 2.2 (Emission Reduction Proposals initiated by the District).

5. **Excess Emission Reductions**

Developer shall be credited with all emission reductions achieved by District through this agreement that exceed the amount of required emission reductions for the Project as a whole ("Excess Emission Reduction"). Developer shall have two years from the date the reductions are identified as an Excess Emission Reduction, with the ability to extend an additional two years based on economic conditions, to transfer the Excess Emission Reduction, if determined by District to be surplus at the time of

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transfer, to another development project owned by Developer or to a development project owned by another developer. Developer must provide District written request notification of the transfer.

6. **Refunds**

Upon verification by District that project related impacts have been fully mitigated District shall refund Developer any unused Emission Reduction Proposal Advance or Air Quality Mitigation Fee. District shall have reasonable time, not to exceed sixty (60) days to refund Developer.

7. **District Rule 9510 (Indirect Source Review)**

Developer acknowledges that except as provided for in this Agreement, Developer is subject to all applicable provisions of District Rule 9510 (Indirect Source Review), that are in effect at the time of submitting an Air Impact Assessment Application in accordance with Paragraph 7.1. District acknowledges that to the extent that mitigation provided under this Agreement equals or exceeds mitigation that would otherwise be achieved through compliance with Sections 6.0 and 7.0 of District Rule 9510, Developer shall be considered to be in compliance with Sections 6.0 and 7.0 of District's Rule 9510.

7.1 **Rule 9510 Equivalency**

District acknowledges that Developer has submitted an Air Impact Assessment Application under Rule 9510 for the Project. District shall calculate the amount of emission reductions required pursuant to District Rule 9510 (Indirect Source Review) and verify equivalency of emission reductions achieved under this Agreement.

8 **District's Obligation**

8.1 **Acknowledgement Regarding Full Mitigation**

Upon successful fulfillment of all mitigation measures identified pursuant to Paragraph 2, District shall verify in writing to Developer and to the Lead Agency that the Project or Project Phase related impacts on air quality have been fully mitigated as set forth in Paragraph 1 (Mitigation of Project Related Impacts on Air Quality). For the

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purpose of this agreement, full mitigation means the sum of all NOx, ROG, and PM10 emission reductions achieved by the mitigation measures equals, or is greater than, the sum of all NOx, ROG, and PM10 emissions specified in the environmental review document certified by the Lead Agency when approving the Project, or the emissions as adjusted in accordance with Paragraph 1.

8.2 **Oversight of Funding Agreements**

District shall ensure that the owners/operators of equipment subject to Funding Agreements perform all obligations to be performed on the part of such parties under said Funding Agreements.

8.3 **Oversight of Air Quality Mitigation Monitoring Plan**

Upon request of the CEQA lead agency for the Project, District shall oversee that portion of the mitigation monitoring plan adopted by the lead agency for the Project which relates to the mitigation brought about by Paragraph 1 of this Agreement. Alternatively, upon request of the Project's CEQA lead agency, District shall cooperate with the lead agency in the oversight of that portion of the mitigation monitoring plan adopted by the lead agency for the Project which relates to the mitigation brought about by Paragraph 1 of this Agreement.

8.4 **Documentation, Record Keeping and Monitoring**

District shall document, keep adequate records on and monitor the emission reductions brought about as a result of this Agreement, and shall, upon written request by Developer or by the lead agency for the Project, provide Developer or lead agency written reports verifying achieved emission reductions and/or emission reductions being brought about to fully mitigate Project related impacts on air quality.

8.5 **Achievement of Emission Reductions**

For and in exchange of Developer's payment of funds pursuant to Paragraph 2 above, District shall ensure, by way of entering into, funding and enforcing the Funding Agreements in accordance with the provisions of Paragraph 9.2 (Oversight of Funding Agreements), that the Project achieves the required emission reductions to the extent

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specified in the environmental review document certified by the Lead Agency.

9. **Subsequent Litigation, Legislation and/or Administrative Action / Credit to Developer**

In the event that despite this Agreement, Applicant is required as a result of a final judgment or District Approved Settlement (as defined below) in any subsequent third party litigation, to pay monies in addition to the monies to be paid by Applicant pursuant to Paragraph 2 (Mitigation Measures) above, then District shall acknowledge and credit Applicant with the emission reduction achieved pursuant to Paragraph 1 (Mitigation of Project Related Impacts on Air Quality) and any additional emission reduction achieved to mitigate the Project related impacts on air quality that will result from Applicant's payment of such additional monies. For purposes of this Paragraph, a "District Approved Settlement" shall mean a settlement of a lawsuit filed pursuant to CEQA, the National Environmental Protection Act or other applicable environmental law which (i) provides for Applicant's payment of monies in exchange for a dismissal of such lawsuit, (ii) provides for the use of such monies by the petitioner in such lawsuit in such a manner as to mitigate adverse air quality impacts of the Project, and (iii) is approved in writing by District.

10. **Term of Agreement**

This Agreement shall be effective upon the date first written above, and shall terminate upon District's meeting its obligation to implement projects that provide necessary emissions reductions to fully mitigate the Project's related air impacts. Developer may, at any time by written notice to District, terminate this Agreement, whereupon, (i) District shall acknowledge in writing to the Lead Agency that Developer has mitigated air quality impacts of the Project to the extent and in the types and quantities brought about by Funding Agreements and Mitigation Measures, (ii) District shall refund to Developer any unused portion of Developer's Emission Reduction Proposal Advances or Air Quality Mitigation Fee less any unpaid administrative fees incurred; and (iii) neither Developer nor District shall have any further rights or

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obligations under this Agreement except as expressly provided. District's obligations to oversee implementation of Funding Agreements pursuant to Paragraph 9.2 (Oversight of Funding Agreements) and to ensure that required emission reductions are achieved, pursuant to Paragraph 9.5 (Achievement of Emission Reductions), shall remain effective for as long as necessary to ensure that the anticipated emission reductions continue to be achieved to the extent specified in the environmental review document certified by the Lead Agency.

11. **Representations, Covenants and Warranties**

11.1. **Developer's Representations, Covenants and Warranties**.

Developer represents, covenants and warrants to District, as of the date of this Agreement, as follows:

11.1.1. The undersigned representatives of Developer are duly authorized to execute, deliver and perform this Agreement, and upon Developer's execution and delivery of this Agreement, this Agreement will have been duly authorized by Developer.

11.1.2. Upon execution and delivery of this Agreement by Developer, Developer's obligations under this Agreement shall be legal, valid and binding obligations of Developer, duly enforceable at law and in equity in accordance with the terms and conditions of this Agreement.

11.1.3. There is no lawsuit, legal action, arbitration, legal or administrative proceeding, legislative or quasi-legislative action or claim existing, pending, threatened or anticipated which would render all or any portion of this Agreement invalid, void or unenforceable in accordance with the terms and conditions thereof.

11.1.4. Other than the execution and delivery of this Agreement by the undersigned representatives of Developer, there are no approvals, consents, confirmations, proceedings, or other actions required by Developer or any third party, entity or agency in order to enter into and carry out the terms, conditions and intent of

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the parties with respect to this Agreement.

11.2. **District's Representations, Covenants and Warranties**

District represents, covenants and warrants to Developer, as of the date of this Agreement, as follows:

11.2.1. The undersigned representatives of District are duly authorized to execute, deliver and perform this Agreement, and upon District's execution and delivery of this Agreement, this Agreement will have been duly authorized by District.

11.2.2. Upon execution and delivery of this Agreement by District, District's obligations under this Agreement shall be legal, valid and binding obligations of District, duly enforceable at law and in equity in accordance with the terms and conditions of this Agreement.

11.2.3. There is no lawsuit, legal action, arbitration, legal or administrative proceeding, legislative, quasi-legislative or administrative action or claim existing, pending, threatened or anticipated which would render all or any portion of this Agreement invalid, void or unenforceable in accordance with the terms and conditions thereof.

11.2.4. Other than the execution and delivery of this Agreement by the undersigned representatives of District, there are no approvals, consents, confirmations, proceedings, or other actions required by District or any third party, entity or agency in order to enter into and carry out the terms, conditions and intent of the parties with respect to this Agreement.

11.2.5. The monies paid by Developer under this Agreement shall be sufficient to ensure that the emission reduction contemplated by this Agreement shall occur, and District shall utilize such monies in such a manner as to ensure that such emission reduction shall occur.

11.2.6. Upon the approval of this Agreement by the governing board of District, the Air Pollution Control Officer of District, or equivalent

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representative, or a delegee of such officer, shall have the authority to approve, deliver, verify, enter into, acknowledge and/or accept any communication, notice, notification, verification, agreement and/or other document to be issued or entered into by District under the terms and conditions of this Agreement, without further approval of the governing board of District.

12. **Indemnification**

Developer agrees to indemnify, defend and hold harmless District for, from and in connection with any third party claims, losses and/or liabilities arising from or in connection with District's performance of this Agreement, excluding only such claims, losses and/or liabilities which result from or in connection with District's sole negligence, act or omission.

13. **Inurement**

Developer's rights and obligations under this Agreement, or applicable portions thereof, shall run with the land encompassed by the Project, and shall inure to the benefit of and be binding upon the heirs, successors and assigns of Developer who take title to such lands or applicable portions thereof. Upon Developer's conveyance of all or any portion of the lands encompassed by the Project, the rights and obligations of Developer under this Agreement shall, to the extent applicable to the lands so conveyed, be transferred to the transferee thereof, and Developer shall thereupon be released by District from, all obligations and liabilities so assigned, except for such obligations and liabilities arising prior to such transfer.

14. **Assignment**

Developer shall have the right to assign all or any part of its rights and/or obligations under this Agreement. Upon any such assignment, Developer shall deliver to District a written assignment and assumption agreement specifying the fact and extent of the assignment, the name and address of the assignee, and the assignee's assumption of all obligations of Developer thereby assigned. Developer shall have the right to assign all or any part of its rights and/or obligations under this Agreement to a

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third party for use in connection with the mitigation of air quality impacts resulting from one or more projects other than the Project, so long as (i) the project is located within the District Boundaries, (ii) the air quality impacts of such project(s) will in fact be mitigated, as verified by District, by the emission reductions brought about by this Agreement, and (iii) the project(s) consist of residential, commercial, industrial and/or mixed use real estate projects which incorporate the Emission Reduction Design Features. Upon any such assignment by Developer, District shall enter into an amendment of this Agreement which acknowledges the assignment and conforms the various provisions of this Agreement as may be required to be conformed in order to provide to the assignee the rights and benefits of this Agreement as if such assignee and its project were the original party and project contemplated in this Agreement.

15. **Recitals Incorporated**

The recitals set forth hereinabove are hereby incorporated into this Agreement and acknowledged, agreed to and adopted by the parties to this Agreement.

16. **Further Assurances**

Developer and District agree to execute and deliver any documents and/or perform any acts which are reasonably necessary in order to carry out the intent of the parties with respect to this Agreement.

17. **No Joint Venture or Partnership**

District and Developer agree that nothing contained in this Agreement or in any document executed in connection with this Agreement shall be construed as making District and Developer joint venturers or partners.

18. **Notices**

Any notices or communications relating to this Agreement shall be given in writing and shall be deemed sufficiently given and served for all purposes when delivered, if (a) in person, (b) by facsimile (with the original delivered by other means set forth in this paragraph, (c) by generally recognized overnight courier or (d) by United States Mail, certified or registered mail, return receipt requested, postage

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prepaid, to the respective addresses set forth below, or to such other addresses as the parties may designate from time to time by providing written notice of the change to the other party.

DEVELOPER	**DISTRICT**
Meritage Homes of California Inc. Northern California Division 1671 East Monte Vista Avenue, Ste 214 Vacaville, California 95688 Fax: (707) 359-2056 Attn: John Barnhart	Seyed Sadredin Executive Director/APCO 1990 E. Gettysburg Ave. Fresno, CA 93726 Phone: (559) 230-6000 Fax: (559) 230-6061

19. **Entire Agreement**

The terms of this Agreement, together with all attached exhibits, are intended by the parties as the complete and final expression of their agreement with respect to such terms and exhibits and may not be contradicted by evidence of any prior or contemporaneous agreement. This Agreement specifically supersedes any prior written or oral agreements between the parties with respect to the subject matter of this Agreement.

20. **Amendments and Waivers**

No addition to or modification of this Agreement shall be effective unless set forth in writing and signed by the party against whom the addition or modification is sought to be enforced. The party benefited by any condition or obligation may waive the same, but such waiver shall not be enforceable by another party unless made in writing and signed by the waiving party.

21. **Invalidity of Provisions**

If any provision of this Agreement as applied to either party or to any circumstance shall be adjudged by a court of competent jurisdiction to be void or unenforceable for any reason, the same shall in no way affect (to the maximum extent permissible by law) any other provision of this Agreement, the application of any such provision under circumstances different from those adjudicated by the court, or the

validity or enforceability of this Agreement as a whole. The parties further agree to replace any such invalid, illegal or unenforceable portion with a valid and enforceable provision, which will achieve, to the maximum extent legally possible, the economic, business or other purposes of the invalid, illegal or unenforceable portion.

2. **Construction**

Unless otherwise indicated, all paragraph references are to the paragraph of this Agreement and all references to days are to calendar days. Whenever, under the terms of this Agreement the time for performance of a covenant or condition falls upon a Saturday, Sunday or California state holiday, the time for performance shall be extended to the next business day. The headings used in this Agreement are provided for convenience only and this Agreement shall be interpreted without reference to any headings. Wherever required by the context, the singular shall include the plural and vice versa, and the masculine gender shall include the feminine or neuter genders, or vice versa. This Agreement may be executed in one or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. The language in all parts of this Agreement shall be construed as a whole in accordance with its fair meaning, and shall not be construed against any party solely by virtue of the fact that such party or its counsel was primarily responsible for its preparation.

23. **Governing Law**

This Agreement shall be governed by the laws of the State of California applicable to contracts made and to be performed in California.

24. **No Third-party Beneficiaries**

Nothing in this Agreement, express or implied, is intended to confer any rights or remedies under or by reason of this Agreement on any person other than the parties to it and their respective permitted successors and assigns, nor is anything in this Agreement intended to relieve or discharge any obligation of any third person to any party hereto or give any third person any right of subrogation or action over or against

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any party to this Agreement.

25. **Exhibits**

The exhibits attached to this Agreement shall be deemed to be a part of this Agreement and are fully incorporated herein by reference.

26. **Force Majeure**

The time within which any party shall be required to perform under this Agreement shall be extended on a day-per-day basis for each day during which such performance is prevented or delayed by reason of events reasonably outside of the control of the performing party, including, without limitation, acts of God, events of destruction, acts of war, civil insurrection, strikes, shortages, governmental delays, moratoria, civil litigation and the like, and/or delays caused by the non-performing party's act or omission.

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IN WITNESS WHEREOF, Developer and District have executed this Agreement and agree that it shall be effective as of the date first written above.

DEVELOPER

Meritage Homes of California Inc.

By:_____

Title:_____

DISTRICT

San Joaquin Valley Unified Air Pollution Control District

_____
Skip Barwick
Governing Board Chair

Recommended for approval:
San Joaquin Valley Unified Air Pollution Control District

_____
Seyed Sadredin
Executive Director/APCO

Approved as to legal form:
San Joaquin Valley Unified Air Pollution Control District

_____
Catherine Redmond
District Counsel

Approved as to accounting form:

_____
Cindi Hamm
Director of Administrative Services

For accounting use only:
San Joaquin Valley Unified Air Pollution Control District

Program: _____
Account No: _____

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EXHIBIT A

DESCRIPTION OF THE PROJECT

The Pillsbury Estates project (Tract No. 3512) is an approved 80.1 acre, 203 lot single family residential (R-1) zoning project that allows for an additional 71 lots upon rezone of the two adjacent parcels (currently R-3 and R-4 zoning). The project is located in the City of Manteca, County of San Joaquin and received its project approvals in 2007. As proposed, the project will be phased over six years with construction commencing in Spring 2013 and completion targeted for Spring of 2019.

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EXHIBIT B

EMISSION REDUCTION DESIGN FEATURES

The project shall incorporate the following Emission Reduction Design Features:

- Inclusion of a project round-a-bout
- Sidewalks on both sides of the street
- Coordination with school district to add new drop off and pick up locations

EXHIBIT C

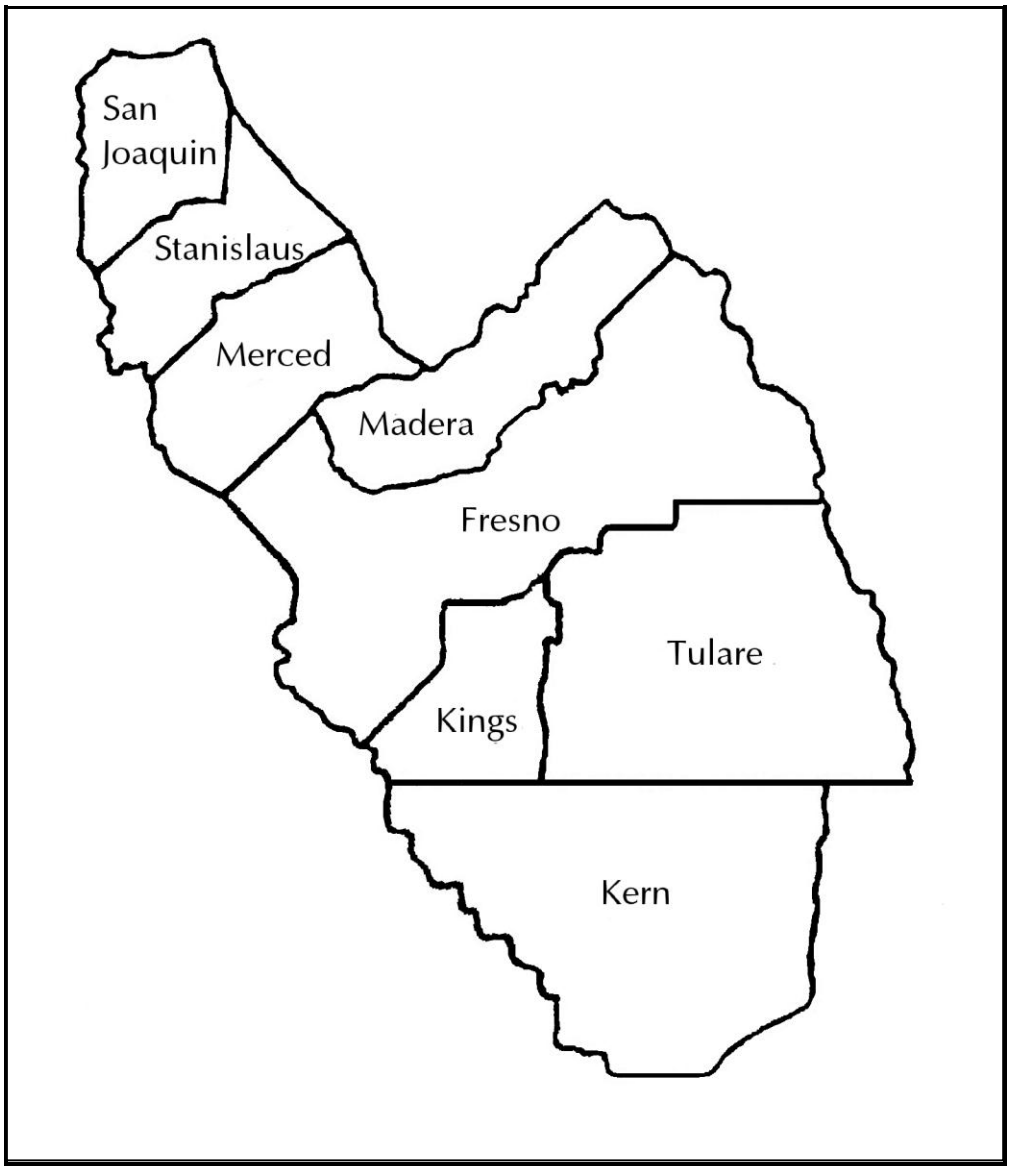
Project Emissions

Pollutant	Project Estimated Emissions (tons)
ROG	7.67
NOx	6.47
PM10	6.03

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EXHIBIT D

DISTRICT BOUNDARIES



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San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

GOVERNING BOARD

Tom Wheeler, Chair
Supervisor, Madera County

Oliver L. Baines III, Vice Chair
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Buddy Mendes
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William O'Brien
Supervisor, Stanislaus County

Craig Pedersen
Supervisor, Kings County

Alexander C. Sherriffs, M.D.
Appointed by Governor

Hub Walsh
Supervisor, Merced County

J. Steven Worthley
Supervisor, Tulare County

Seyed Sadredin
Executive Director
Air Pollution Control Officer

Northern Region Office
4800 Enterprise Way
Modesto, CA 95356-8718
(209) 557-6400 • FAX (209) 557-6475

Central Region Office
1990 East Gettysburg Avenue
Fresno, CA 93726-0244
(559) 230-6000 • FAX (559) 230-6061

Southern Region Office
34946 Flyover Court
Bakersfield, CA 93308-9725
(661) 392-5500 • FAX (661) 392-5585

www.valleyair.org

DATE: June 18, 2015

TO: SJVUAPCD Governing Board

FROM: Seyed Sadredin, Executive Director/APCO
Project Coordinator: David Warner

RE: **ITEM NUMBER 9: APPROVE VOLUNTARY EMISSION REDUCTION AGREEMENT WITH CALIFORNIA RESOURCES PRODUCTION CORPORATION TO RECEIVE FUNDS IN THE ESTIMATED AMOUNT OF $186,701 TO MITIGATE AIR QUALITY IMPACTS OF THE PROPOSED BUENA VISTA NOSE AREA APPRAISAL PROJECT**

RECOMMENDATIONS:

1. Approve and authorize the Chair to sign the attached Voluntary Emission Reduction Agreement with California Resources Production Corporation.

2. Authorize staff to identify, fund and manage air quality projects to mitigate construction criteria pollution impacts associated with the Buena Vista Nose Area Appraisal Project.

BACKGROUND:

Since 2005, the District has entered into Voluntary Emission Reduction Agreements (VERAs) with project proponents to mitigate air quality impacts of their projects. These agreements benefit air quality by achieving additional reductions in emissions. The District has entered into 26 VERAs and to date has received over $13.5 million through the VERA process to invest in local emission reduction projects. Projects funded by the District have achieved total emission reductions of over 1,530 tons of Nitrogen Oxides (NOx), 185 tons Volatile Organic Compounds (VOC), and 113 tons of Particulate Matter 10 microns or less in size (PM10). The agreement before you today is similar to previous agreements approved by your Board.

California Resources Production Corporation (CRPC) has proposed the Buena Vista Nose Area Appraisal Project which consists of the construction of four new well pad sites, the expansion of one existing well pad site, and the drilling of nine exploratory oil and gas wells located eight miles northeast of the City of Taft (Project).

The Division of Oil, Gas, and Geothermal Resources (DOGGR) serves as lead agency for the Project under the California Environmental Quality Act (CEQA) and has approved and certified the Mitigated Negative Declaration (MND). Per the MND, CRPC is required to mitigate actual NOx emissions from Project construction to below the District's CEQA significance threshold to ensure a less than significant impact on air quality. The VERA proposed for your Board's consideration today implements that commitment.

ROLE OF VOLUNTARY EMISSION REDUCTION AGREEMENTS:

VERAs provide a mechanism under which project proponents can voluntarily enter into a contractual agreement with the District to mitigate their project's impacts on air quality. Once entered into, VERAs become legally enforceable mechanisms for achieving air quality mitigation.

Dollars provided by the project proponent are reinvested in the Valley to reduce emissions. Utilizing the District's highly successful grant administration program, the funds generated here will be awarded to Valley businesses, residents, and municipalities to generate real and quantifiable reductions in emissions. The following are some examples of how these funds can be utilized to reduce air pollution:

- Grants to Valley businesses and municipalities to replace old trucks with new low-emissions trucks
- Grants to Valley businesses and municipalities to electrify or replace existing diesel-powered off-road equipment
- Grants to Valley residents to replace fireplaces and non-certified wood burning stoves with clean-burning EPA certified units
- Grants to Valley residents through the District's Tune-In-Tune-Up program to repair older high-polluting vehicles
- Grants to Valley residents to purchase cleaner vehicles
- Grants to Valley school districts to replace older and high-polluting school buses

The emissions reductions secured through VERAs are "surplus" to existing regulations, achieving reductions earlier or beyond those required by regulations. Over the years, the District has built a reputation for excellence in the implementation of these programs, as highlighted in multiple audits by state agencies that lauded the District's incentive programs for their efficiency and effectiveness. The District's incentive programs have invested over $1 billion in public and private funding for clean air projects reducing more than 100,000 tons of emissions.

MITIGATION OF PROJECT EMISSIONS:

As required by the MND, CRPC has agreed to provide funds to the District to mitigate the air quality impact of NOx emissions from the construction of the Project to less than significant levels under CEQA. Given the District's experience in administering grants for emission reduction projects, with adequate funding, the District can bring about sufficient emission reductions from existing sources of emissions to mitigate the air emissions resulting from construction of this Project.

The District will receive funds from CRPC on an annual basis for the emissions above the significance thresholds projected in the MND to occur in the following year. The District will then implement emission reduction projects through its emissions reduction incentive programs. If actual emissions for that year exceed the estimates or if the District is unable to generate sufficient reductions with the initial funding, additional funding may be necessary. If actual emissions are lower than estimated, excess emissions reductions generated can be credited to the following year. CRPC's annual funding obligation will cease upon completion of the Project.

The MND estimated that, over a period of approximately three years, excess emissions may be as high as 19.2 tons of NOx emissions. While excess emissions are likely to be less, the District has used this high-end approximation to estimate that $186,701 will be necessary to mitigation excess NOx emissions. This amount includes a four percent (4%) administrative fee to cover the District's costs of administering the program:

Mitigation Funds:	$ 179,520
Admin. Fee (4%):	$ 7,181
Total	$ 186,701

All mitigation funds collected will be used for emission reduction projects to mitigate Project construction emissions impacts. To the extent possible, the emission reductions will be in place contemporaneously with construction of the Project, providing direct air quality benefits in the San Joaquin Valley. The District will establish a separate budgetary account for these funds, will provide routine tracking and status reports documenting fund expenditures and the emissions reductions achieved for the Project, and will certify to the lead agency and the project proponent the successful conclusion of mitigation obligations under the VERA.

FISCAL IMPACT:

Under the terms of the agreement, CRPC is expected to pay the District an estimated total of $179,520 in mitigation and $7,181 in administrative fees, for a total of $186,701. The District's proposed 2015-16 budget contains adequate revenue estimates and appropriations to facilitate the receipt of mitigation funds from CRPC and for expenditures of those funds in accordance with the VERA.

Attachment: Voluntary Emission Reduction Agreement No. 20150063 (20 pages)

San Joaquin Valley Unified Air Pollution Control District
Meeting of the Governing Board
June 18, 2015

APPROVE VOLUNTARY EMISSION REDUCTION AGREEMENT WITH CALIFORNIA RESOURCES PRODUCTION CORPORATION TO RECEIVE FUNDS IN THE ESTIMATED AMOUNT OF $186,701 TO MITIGATE AIR QUALITY IMPACTS OF THE PROPOSED BUENA VISTA NOSE AREA APPRAISAL PROJECT

Attachment:

Voluntary Emission Reduction Agreement No. 20150063
(20 Pages)

VOLUNTARY EMISSION REDUCTION AGREEMENT 20150063

This Voluntary Emission Reduction Agreement ("Agreement") is entered into as of _____ by and between CALIFORNIA RESOURCES PRODUCTION CORPORATION ("Developer") and the SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT, an air pollution control district formed pursuant to California Health and Safety Code section 40150, et seq. ("District").

RECITALS

WHEREAS, the Buena Vista Nose Area Appraisal Project ("Project"), located in Kern County and as more particularly described on Exhibit A attached hereto, is subject to the California Environmental Quality Act ("CEQA") codified at California Public Resources Code section 21000, et seq. and the Division of Oil, Gas and Geothermal Resources has approved and certified a Mitigated Negative Declaration; and

WHEREAS, the Project incorporates the design features specified on Exhibit B attached hereto and incorporated herein ("Emission Reduction Design Features"), in order to reduce the air quality impacts associated with the Project; and

WHEREAS, the Project, if constructed could result in oxides of nitrogen (NOx) emissions from construction exceeding the District's CEQA significance threshold of 10 tons per year and would cause impacts on air quality within the geographical boundaries of the San Joaquin Valley Unified Air Pollution Control District, as depicted on Exhibit C attached hereto and incorporated herein (the "District Boundaries"). Any amount of NOx emissions exceeding the District's NOx significance threshold is to be mitigated and are hereafter referred to as the "Required NOx Reductions"; and

WHEREAS, Developer desires to fully comply with all requirements of CEQA, including all requirements relating to the mitigation of air quality impacts arising from or in connection with the Project and each project phase; and

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WHEREAS, District is an air pollution control district formed by the counties of Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus and Tulare, pursuant to California Health and Safety Code section 40150, et seq.; and

WHEREAS, District is responsible for developing and implementing air quality control measures within the District Boundaries, including air quality control measures for stationary sources, transportation sources, and indirect sources; and

WHEREAS, the District's incentive programs have been developed around several core principles, including cost-effectiveness, integrity, effective program administration, excellent customer service, the efficient use of District resources, fiscal transparency and public accountability; and

WHEREAS, the District's incentive programs are regularly audited by independent outside agencies including professional accountancy corporations on behalf of the federal government, the California Air Resources Board (ARB), the California Department of Finance and the California Bureau of State Audits; and

WHEREAS, District has determined that with appropriate funding, District can provide reductions of emissions through its incentive programs from certain projects in types and in sufficient quantities to mitigate the air quality criteria pollutant impacts of the Project as presented in Paragraph 1 below ("Mitigation of Project Related Impacts on Air Quality"); and

WHEREAS, Developer and District desire to enter into this Agreement in order to develop and implement air quality mitigation measures which will mitigate the project air impact and result in an estimated emission reduction of 19.2 tons of NOx (see Exhibit D for further details). As a result of the implementation of this Agreement the development of the Project will result in no increase in NOx emissions over the District's threshold of significance of 10 tons per year for NOx.

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AGREEMENT

NOW THEREFORE, in exchange of the mutual covenants herein contained, Developer and District hereby agree as follows:

1. **Mitigation of Project Related Impacts on Air Quality**

The Developer shall mitigate the Project's actual Required NOx Reductions from construction by achieving surplus, quantifiable and enforceable emission reductions in accordance with Paragraph 3 ("Mitigation of Criteria Pollutants"). "Surplus" emission reductions are reductions that are not otherwise required by existing laws or regulations. The determination of whether emission reductions are surplus shall be performed by the District through its Incentive Programs.

Developer shall mitigate the Project's actual Required NOx Reductions by providing funds (Air Quality Mitigation Funds) to the District to execute Emission Reduction Projects through the Districts Incentive Programs (Emission Reduction Projects). The emission reductions achieved by the Emission Reduction Projects shall equal, or exceed, the actual Required NOx Reductions according to Paragraph 4.

2. **Timing of Air Quality Funds**

Developer may mitigate Project related air impacts at one time, or Developer may mitigate Project related air impacts consistent with defined project phases (Project Phase). For the purpose of this agreement, a Project Phase is any subset of the total Project which would result in air emissions. If Developer mitigates all Project related impacts at once, Developer shall provide the District with sufficient Air Quality Mitigation Funds to execute Emission Reduction Projects for Mitigation of Required NOx Reductions for the entire Project, as estimated in the Mitigated Negative Declaration, prior to ground-disturbance construction activity. If Developer mitigates Project air impacts in phases, Developer shall provide District with sufficient Air Quality Mitigation Funds, based on estimated Required NOx Reductions for the Project Phase in the Mitigated Negative Declaration prior to ground-disturbance construction activity for the Project Phase.

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3. **Mitigation of Criteria Pollutants**

District shall credit Developer for all air quality mitigation measures brought about by this Agreement, including any emission reductions District achieves prior to the date Developer receives final approval of the Project from all applicable Governmental Authorities.

Developer shall advance to District a monetary sum equal to District's estimated cost per ton as set forth in Table 1 (Emission Reduction Cost Schedule) multiplied by the number of tons of Required NOx Reductions to be achieved, as estimated in the Mitigated Negative Declaration, plus an administrative cost of four (4) percent. District will identify Emission Reduction Projects from District's Incentive Programs and use said Air Quality Mitigation Funds to achieve emission reductions on behalf of Developer.

Table 1. Emission Reduction Cost Schedule

Criteria Pollutants	Construction Rate $/ton
NOx	$9,350

This per-ton cost is not a guarantee and only an estimate, but the District shall use every reasonable effort to accomplish average per-ton costs no higher than these Table 1 costs.

In the event District is unable to achieve the required reductions due to a shortfall in funding, District shall provide Developer a written statement of the amount of reductions that have been achieved. Developer shall have a reasonable time, not to exceed ninety (90) days, within which to provide District Air Quality Mitigation Funds based on the amount of emission reductions necessary to satisfy the terms specified in Paragraph 1.

4. **Project Related Construction Emissions**

4.1 **Actual Construction Emissions Assessment**

i. The Developer shall collect detailed daily construction information to determine the actual NOx construction emissions from the Project. To determine the

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actual NOx construction emissions, the Developer shall perform an analysis approved by the District (such as a spreadsheet containing calculations using the most current emission factors for quantifying actual construction emissions). The construction information and the analysis shall be provided in a report (Construction Report).

ii. Construction information shall include emission sources associated with the on-site and off-site construction activities. For on-site construction activities, the Developer shall collect data for all off-road equipment by equipment type, engine horsepower, engine model year, and total daily hours of operation for each construction activity (i.e., site preparation, grading, paving, demolition, etc.). For off-site construction activities, the Developer shall collect all vehicle trips by general category of activity (employee and vendor travel or materials delivery), by vehicle type (i.e., auto, light-duty truck, heavy duty truck) and their associated total vehicle miles.

iii. The Developer shall submit to the District a Construction Report within thirty (30) days starting at the end of every twelve (12) month period following the start of construction. The District shall evaluate the Construction Report and provide its review in the Emission Reduction Status Report in accordance with Paragraph 4.2.

4.2 **Emission Reduction Status Reporting**

Upon the District's receipt of the Construction Report, the District shall have sixty (60) days to prepare and submit to the Developer an Emission Reduction Status Report ("Status Report"). This Status Report shall compare the emission reductions achieved to date to the actual emissions of NOx in the Construction Report to date.

5. **Phase Excess Emission Reductions**

If mitigating the Project by phases, Developer shall be credited with all excess NOx emission reductions achieved by District through this Agreement that exceed the amount of actual Required NOx Reductions for the Project Phase ("Phase Excess Emission Reduction"). District shall credit the Phase Excess Emission Reduction toward the next Project Phase.

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6. **Project Excess Emission Reductions**

Developer shall be credited with all excess NOx emission reductions achieved by District through this Agreement that exceed the amount of actual Required NOx Reductions for the Project as a whole ("Project Excess Emission Reduction"). Developer shall have two years from the date the reductions are identified as an Excess Emission Reduction, with the ability to extend an additional two years based on economic conditions, to transfer the Project Excess Emission Reduction, if determined by District to be surplus at the time of transfer, to another project owned by Developer that is located in the San Joaquin Valley Air Basin. Developer must provide District written request notification of the transfer.

7. **Refunds**

After the end of the construction for the Project and upon verification by District that all actual Required NOx Reductions from the Project have been mitigated, District shall refund Developer any unused Air Quality Mitigation Funds. District shall have a reasonable time, not to exceed sixty (60) days, to refund Developer.

8. **District's Obligation**

8.1 **Funding Agreements**

District shall use diligent efforts to enter into Funding Agreements for Emission Reduction Projects with owners and/or operators of pollution source equipment within one hundred eighty (180) days of the District's receipt of Air Quality Funds.

8.2 **Oversight of Funding Agreements**

District shall ensure that the owners/operators of equipment subject to Funding Agreements perform all obligations to be performed on the part of such parties under said Funding Agreements.

8.3 **Oversight of Air Quality Mitigation Monitoring Plan**

Upon request of the CEQA lead agency for the Project, District shall oversee that portion of the mitigation monitoring plan adopted by the lead agency for the Project which relates to the mitigation brought about by Paragraph 1 of this Agreement.

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Alternatively, upon request of the Project's CEQA lead agency, District shall cooperate with the lead agency in the oversight of that portion of the mitigation monitoring plan adopted by the lead agency for the Project which relates to the mitigation brought about by Paragraph 1 of this Agreement.

8.4 **Documentation, Record Keeping and Monitoring**

District shall document, keep adequate records on and monitor the emission reductions brought about as a result of this Agreement, and shall, upon written request by Developer or by the lead agency for the Project, provide Developer or lead agency written reports verifying achieved emission reductions and/or emission reductions being brought about to mitigate Project related impacts on air quality.

8.5 **Achievement of Emission Reductions**

For and in exchange of Developer's payment of funds pursuant to Paragraph 2 above, District shall ensure, by way of entering into, funding and enforcing the Funding Agreements in accordance with the provisions of Paragraph 8.2 (Oversight of Funding Agreements), that the Project achieves the required emission reductions to the extent specified in the environmental review document certified by the Lead Agency.

8.6 **Acknowledgement Regarding Mitigation**

Upon successful fulfillment of mitigation of NOx identified pursuant to Paragraph 2, District shall verify in writing to Developer and to the Lead Agency that Project related impacts on air quality have been mitigated as set forth in Paragraph 1 (Mitigation of Project Related Impacts on Air Quality).

9. **Subsequent Litigation, Legislation and/or Administrative Action / Credit to Developer**

In the event that despite this Agreement, Developer is required as a result of a final judgment or District Approved Settlement (as defined below) in any third party litigation, to pay monies in addition to the monies to be paid by Developer pursuant to Paragraph 3 (Mitigation of Criteria Pollutants) above, then District shall acknowledge and credit Developer with the emission reductions achieved pursuant to Paragraph 1

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(Mitigation of Project Related Impacts on Air Quality) and any additional emission reductions achieved to mitigate the Project related impacts on air quality that will result from Developer's payment of such additional monies. For purposes of this Paragraph, a "District Approved Settlement" shall mean a settlement of a lawsuit filed pursuant to CEQA, the National Environmental Protection Act or other applicable environmental law which (i) provides for Developer's payment of monies in exchange for a dismissal of such lawsuit, (ii) provides for the use of such monies by the petitioner in such lawsuit in such a manner as to mitigate adverse air quality impacts of the Project, and (iii) is approved in writing by District. The District shall have no authority to commit the Developer's money in any settlement of a third party lawsuit without the Developer's consent.

10. **Term of Agreement**

This Agreement shall be effective upon the date first written above, and shall terminate upon District's meeting its obligation to implement projects that provide necessary emissions reductions to mitigate the Project related air impacts. Developer may, at any time by written notice to District, terminate this Agreement, whereupon, (i) District shall acknowledge in writing to the Lead Agency that Developer has mitigated air quality impacts of the Project to the extent and in the types and quantities brought about by Funding Agreements and Mitigation Measures, (ii) District shall refund to Developer any unused portion of Developer's Air Quality Mitigation Funds less any unpaid administrative costs incurred; and (iii) neither Developer nor District shall have any further rights or obligations under this Agreement except as expressly provided. District's obligations to oversee implementation of Funding Agreements pursuant to Paragraph 8.2 (Oversight of Funding Agreements) and to ensure that required emission reductions are achieved, pursuant to Paragraph 8.5 (Achievement of Emission Reductions), shall remain effective for as long as necessary to ensure that the anticipated emission reductions continue to be achieved to the extent specified in the environmental review document certified by the Lead Agency.

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11. **Representations, Covenants and Warranties**

11.1. **Developer's Representations, Covenants and Warranties**.

Developer represents, covenants and warrants to District, as of the date of this Agreement, as follows:

11.1.1. The undersigned representatives of Developer are duly authorized to execute, deliver and perform this Agreement, and upon Developer's execution and delivery of this Agreement, this Agreement will have been duly authorized by Developer.

11.1.2. Upon execution and delivery of this Agreement by Developer, Developer's obligations under this Agreement shall be legal, valid and binding obligations of Developer, duly enforceable at law and in equity in accordance with the terms and conditions of this Agreement.

11.1.3. There is no lawsuit, legal action, arbitration, legal or administrative proceeding, legislative quasi-legislative or administrative action or claim existing, pending, threatened or anticipated which would render all or any portion of this Agreement invalid, void or unenforceable in accordance with the terms and conditions thereof.

11.1.4. Other than the execution and delivery of this Agreement by the undersigned representatives of Developer, there are no approvals, consents, confirmations, proceedings, or other actions required by Developer or any third party, entity or agency in order to enter into and carry out the terms, conditions and intent of the parties with respect to this Agreement, except as required to enter Funding Agreements.

11.2. **District's Representations, Covenants and Warranties**

District represents, covenants and warrants to Developer, as of the date of this Agreement, as follows:

11.2.1. The undersigned representatives of District are duly authorized to execute, deliver and perform this Agreement, and upon District's

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execution and delivery of this Agreement, this Agreement will have been duly authorized by District.

11.2.2. Upon execution and delivery of this Agreement by District, District's obligations under this Agreement shall be legal, valid and binding obligations of District, duly enforceable at law and in equity in accordance with the terms and conditions of this Agreement.

11.2.3. There is no lawsuit, legal action, arbitration, legal or administrative proceeding, legislative, quasi-legislative or administrative action or claim existing, pending, threatened or anticipated which would render all or any portion of this Agreement invalid, void or unenforceable in accordance with the terms and conditions thereof.

11.2.4. Other than the execution and delivery of this Agreement by the undersigned representatives of District, there are no approvals, consents, confirmations, proceedings, or other actions required by District or any third party, entity or agency in order to enter into and carry out the terms, conditions and intent of the parties with respect to this Agreement, except as required to enter Funding Agreements

11.2.5. The monies paid by Developer under this Agreement shall be sufficient to ensure that the emission reduction contemplated by this Agreement shall occur, and District shall utilize such monies in such a manner as to ensure that such emission reduction shall occur.

11.2.6. Upon the approval of this Agreement by the governing board of District, the Air Pollution Control Officer of District, or equivalent representative, or a delegee of such officer, shall have the authority to approve, deliver, verify, enter into, acknowledge and/or accept any communication, notice, notification, verification, agreement and/or other document to be issued or entered into by District under the terms and conditions of this Agreement, without further approval of the governing board of District.

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12. **Indemnification**

Developer agrees to indemnify, defend and hold harmless District for, from and in connection with any third party claims, losses and/or liabilities arising from or in connection with District's performance of this Agreement, excluding only such claims, losses and/or liabilities which result from or are in connection with District's sole negligence, act or omission.

13. **Inurement**

Developer's rights and obligations under this Agreement, or applicable portions thereof, shall run with the land encompassed by the Project, and shall inure to the benefit of and be binding upon the heirs, successors and assigns of Developer who take title to such lands or applicable portions thereof. Upon Developer's conveyance of all or any portion of the lands encompassed by the Project, the rights and obligations of Developer under this Agreement shall, to the extent applicable to the lands so conveyed, be transferred to the transferee thereof, and Developer shall thereupon be released by District from, all obligations and liabilities so assigned, except for such obligations and liabilities arising prior to such transfer.

14. **Assignment**

Developer shall have no right to assign all or any part of its rights and/or obligations under this Agreement without the District's written consent. In the event the District does give consent to any such assignment, the District, the third party assignee and Developer shall enter into an amendment and novation of this Agreement which acknowledges the assignment and conforms the various provisions of this Agreement as may be required to be conformed in order to provide to the assignee the rights and benefits of this Agreement as if such assignee and its project were the original party and project contemplated in this Agreement.

15. **Recitals Incorporated**

The recitals set forth hereinabove are hereby incorporated into this Agreement and acknowledged, agreed to and adopted by the parties to this Agreement.

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16. **Further Assurances**

Developer and District agree to execute and deliver any documents and/or perform any acts which are reasonably necessary in order to carry out the intent of the parties with respect to this Agreement.

17. **No Joint Venture or Partnership**

District and Developer agree that nothing contained in this Agreement or in any document executed in connection with this Agreement shall be construed as making District and Developer joint venturers or partners.

18. **Notices**

Any notices or communications relating to this Agreement shall be given in writing and shall be deemed sufficiently given and served for all purposes when delivered, if (a) in person, (b) by facsimile (with the original delivered by other means set forth in this paragraph, (c) by generally recognized overnight courier or (d) by United States Mail, certified or registered mail, return receipt requested, postage prepaid, to the respective addresses set forth below, or to such other addresses as the parties may designate from time to time by providing written notice of the change to the other party.

DEVELOPER	**DISTRICT**
Brian Owens	Seyed Sadredin
Vice President of Operations	Executive Director/APCO
9600 Ming Avenue, Suite 300	1990 E. Gettysburg Ave.
Bakersfield, CA 93311	Fresno, CA 93726
Phone: (661) 869-8001	Phone: (559) 230-6000
Fax: (661) 869-8024	Fax: (559) 230-6061

19. **Entire Agreement**

The terms of this Agreement, together with all attached exhibits, are intended by the parties as the complete and final expression of their agreement with respect to such terms and exhibits and may not be contradicted by evidence of any prior or contemporaneous agreement. This Agreement specifically supersedes any prior

written or oral agreements between the parties with respect to the subject matter of this Agreement.

20. **Amendments and Waivers**

No addition to or modification of this Agreement shall be effective unless set forth in writing and signed by the party against whom the addition or modification is sought to be enforced. The party benefited by any condition or obligation may waive the same, but such waiver shall not be enforceable by another party unless made in writing and signed by the waiving party.

21. **Invalidity of Provisions**

If any provision of this Agreement as applied to either party or to any circumstance shall be adjudged by a court of competent jurisdiction to be void or unenforceable for any reason, the same shall in no way affect (to the maximum extent permissible by law) any other provision of this Agreement, the application of any such provision under circumstances different from those adjudicated by the court, or the validity or enforceability of this Agreement as a whole. The parties further agree to replace any such invalid, illegal or unenforceable portion with a valid and enforceable provision, which will achieve, to the maximum extent legally possible, the economic, business or other purposes of the invalid, illegal or unenforceable portion.

22. **Construction**

Unless otherwise indicated, all paragraph references are to the paragraph of this Agreement and all references to days are to calendar days. Whenever, under the terms of this Agreement the time for performance of a covenant or condition falls upon a Saturday, Sunday or California state holiday, the time for performance shall be extended to the next business day. The headings used in this Agreement are provided for convenience only and this Agreement shall be interpreted without reference to any headings. Wherever required by the context, the singular shall include the plural and vice versa, and the masculine gender shall include the feminine or neuter genders, or vice versa. This Agreement may be executed in one or more counterparts, each of

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which shall be deemed an original, but all of which together shall constitute one and the same instrument. The language in all parts of this Agreement shall be construed as a whole in accordance with its fair meaning, and shall not be construed against any party solely by virtue of the fact that such party or its counsel was primarily responsible for its preparation.

23. **Governing Law**

23.1 The rights and obligations of the parties and the interpretation and performance of this Agreement shall be governed in all respects by the laws of the State of California.

23.2 Venue for any action arising out of or relating to this Agreement shall be in Fresno County, California.

24. **No Third-party Beneficiaries**

Nothing in this Agreement, express or implied, is intended to confer any rights or remedies under or by reason of this Agreement on any person other than the parties to it and their respective permitted successors and assigns, nor is anything in this Agreement intended to relieve or discharge any obligation of any third person to any party hereto or give any third person any right of subrogation or action over or against any party to this Agreement.

25. **Exhibits**

The exhibits attached to this Agreement shall be deemed to be a part of this Agreement and are fully incorporated herein by reference.

26. **Force Majeure**

The time within which any party shall be required to perform under this Agreement shall be extended on a day-per-day basis for each day during which such performance is prevented or delayed by reason of events reasonably outside of the control of the performing party, including, without limitation, acts of God, events of destruction, acts of war, civil insurrection, strikes, shortages, governmental delays, moratoria, civil litigation and the like, and/or delays caused by the non-performing

party's act or omission.

IN WITNESS WHEREOF, Developer and District have executed this Agreement and agree that it shall be effective as of the date first written above.

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DEVELOPER

California Production Resources Corporation

By:_____

Brian Owens
Vice President Operations

DISTRICT

San Joaquin Valley Unified Air Pollution Control District

_____

Tom Wheeler
Governing Board Chair

Recommended for approval:
San Joaquin Valley Unified Air Pollution Control District

_____

Seyed Sadredin
Executive Director/APCO

Approved as to legal form:
San Joaquin Valley Unified Air Pollution Control District

_____

Annette Ballatore-Williamson
District Counsel

Approved as to accounting form:

_____

Mehri Barati
Director of Administrative Services

For accounting use only:
San Joaquin Valley Unified Air Pollution Control District

Program: _____
Account No: _____

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EXHIBIT A

DESCRIPTION OF THE PROJECT

The Project consists of the construction of four new 11.2-acre well pad sites (sites), the expansion of one existing site from 2.5 acres to 11.2 acres, and the drilling of nine new exploratory oil and gas wells on the five sites. Subsurface gathering lines will be installed to connect the new sites to existing processing infrastructure. The proposed wells will be located in Section 31 of Township 31 South, Range 25 East, and Sections 4, 10, 14, and 15 of Township 32 South, Range 25 East, Mount Diablo Base and Meridian (MDB&M), east of the established Buena Vista Oilfield in Western Kern County.

The purpose of the proposed Project is to appraise leased mineral rights for commercial hydrocarbon resource recovery, which depends on multiple variables including fluid and rock properties, production characteristics and Project economics. This information would enable California Resources Production Corporation to characterize future investment and refine development strategies to limit surface and subsurface impacts.

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EXHIBIT B

EMISSION REDUCTION DESIGN FEATURES

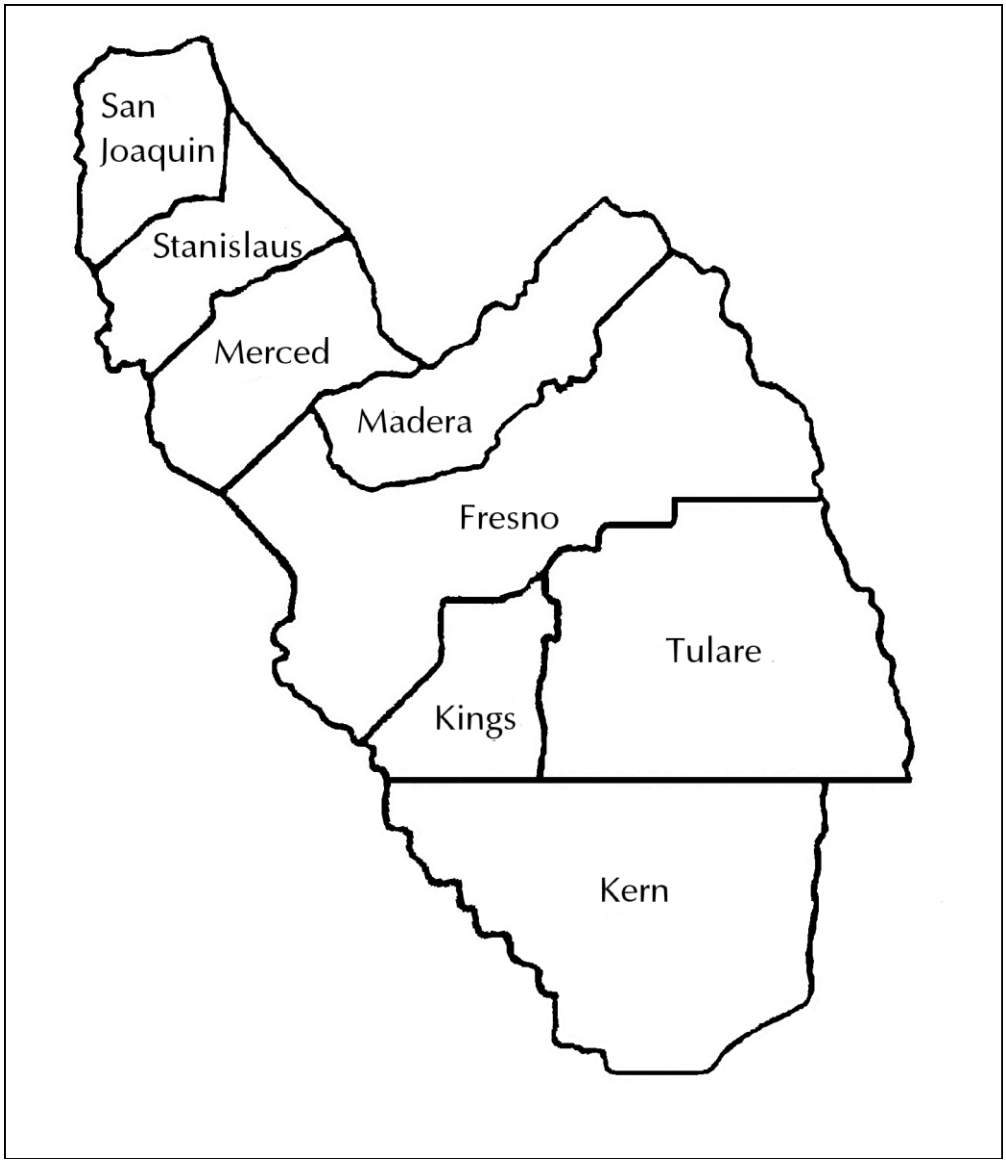
Mitigation Measure AQ-1: Vintage (also known as California Resources Production Corporation) shall use engines that meet EPA Tier 2 engine emission standards on drill rigs and well service rigs, per SJVAPCD State Implementation Plan (SIP) goals and requirements.

Mitigation Measure AQ-3: In addition to implementing required control measures in Regulation VIII, Vintage (also known as California Resources Production Corporation) shall implement the Enhanced Control Measure of limiting traffic speeds on unpaved roads to 15 miles per hour (mph).

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EXHIBIT C

DISTRICT BOUNDARIES



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EXHIBIT D

ESTIMATED PROJECT EMISSIONS AND COST

Table 1: Estimated Project Emissions

Construction Emissions	NOx (tons)	VOC (tons)	CO (tons)	SOx (tons)	PM_{10} (tons)
SJVAPCD Threshold of Significance (per year)	*10*	*10*	*100*	*27*	*15*
2014 (5 sites & 1 well) with implementation of Mitigation Measure AQ-1	11.49	0.71	7.39	0.01	0.49
Emissions over SJVAPCD Threshold of Significance	1.49	0.00	0.00	0.00	0.00
2015 (6 wells) with implementation of Mitigation Measure AQ-1	27.71	1.87	16.85	0.03	1.08
Emissions over SJVAPCD Threshold of Significance	17.71	0.00	0.00	0.00	0.00
2016 (2 wells) with implementation of Mitigation Measure AQ-1	9.24	0.62	5.62	0.01	0.36
Emissions over SJVAPCD Threshold of Significance	0.00	0.00	0.00	0.00	0.00
Total Construction Emissions Over SJVAPCD Threshold of Significance	**19.20**	0.00	0.00	0.00	0.00

Table 2: Estimated Mitigation Cost

Construction Emissions	NOx (tons)	Cost ($)*
Tons to be reduced (2014)	1.49	$13,931.50
Tons to be reduced (2015)	17.71	$165,588.50
Tons to be reduced (2016)	0.00	$0.00
subtotal	19.20	$179,520.00
4% Administrative Fee		$7,181
Total Estimate		**$186,701**

* Based on $9,350/ton cost estimate

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APPENDIX E

Menu Option 1 Calculations

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR
IPK_4AB0FNRG	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015
IPK_4AB0FNRG	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015	2015
IPK_4AB0FNRG	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015	2015
IPK_4AB0FNRG	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015	2015
IPK_4AB0FNRG	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	3.00	7	01/15/2015	2015	2015
IPK_4AB0FNRH	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	3.00	7	01/15/2015	2015	2015
IPK_4AB0FNRH	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	3.00	7	01/15/2015	2015	2015
IPK_4AB0FNRH	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	3.00	7	01/15/2015	2015	2015
IPK_4AB0FNRH	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	3.00	7	01/15/2015	2015	2015
IPK_4AB0FNRQ	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015
IPK_4AB0FNRQ	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015	2015
IPK_4AB0FNRQ	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015	2015
IPK_4AB0FNRQ	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015	2015
IPK_4AB0FNRR	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015	2015
IPK_4AB0FNRR	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015	2015
IPK_4AB0FNRR	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015	2015
IPK_4AB0FNRR	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015	2015
IPK_4AB0FNRS	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015	2015
IPK_4AB0FNS1	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015
IPK_4AB0FNS1	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015	2015
IPK_4AB0FNS1	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015	2015
IPK_4AB0FNS1	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015	2015
IPK_4AB0FNS1	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015	2015
IPK_4AB0FNS2	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015	2015
IPK_4AB0FNS2	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015	2015
IPK_4AB0FNS2	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015	2015
IPK_4AB0FNS2	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015	2015
IPK_4AB0FNSB	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015
IPK_4AB0FNSB	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	7.00	7	01/19/2015	2015	2015
IPK_4AB0FNSB	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	7.00	7	01/19/2015	2015	2015
IPK_4AB0FNSC	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	7.00	7	01/19/2015	2015	2015
IPK_4AB0FNSC	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015	2015
IPK_4AB0FNSC	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015	2015
IPK_4AB0FNSC	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015	2015
IPK_4AB0FNSC	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015	2015
IPK_4AB0FNSC	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015	2015
IPK_4AB0FNSL	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015
IPK_4AB0FNSM	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	9.00	7	01/21/2015	2015	2015
IPK_4AB0FNSM	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	9.00	7	01/21/2015	2015	2015
IPK_4AB0FNSM	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	9.00	7	01/21/2015	2015	2015
IPK_4AB0FNSM	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	8.00	7	01/20/2015	2015	2015
IPK_4AB0FNSM	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	8.00	7	01/20/2015	2015	2015
IPK_4AB0FNSM	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	8.00	7	01/20/2015	2015	2015
IPK_4AB0FNSN	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	8.00	7	01/20/2015	2015	2015
IPK_4AB0FNSN	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	8.00	7	01/20/2015	2015	2015
IPK_4AB0FNSW	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015
IPK_4AB0FNSW	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	11.00	7	01/23/2015	2015	2015
IPK_4AB0FNSW	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	11.00	7	01/23/2015	2015	2015
IPK_4AB0FNSW	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	11.00	7	01/23/2015	2015	2015

STARTMO	STARTDAY	ENDYR	ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT
1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00
1	13	2015	1	16	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00
1	13	2015	1	16	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	1	16	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00
1	13	2015	1	15	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	1	15	DSL	Rotary Table or Top Drive	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	15	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	15	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	15	DSL	Diesel Engine For Mud Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00
1	13	2015	1	17	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00
1	13	2015	1	17	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	1	17	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00
1	13	2015	1	16	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	1	16	DSL	Rotary Table or Top Drive	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	16	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	16	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	16	DSL	Diesel Engine For Mud Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00
1	13	2015	1	18	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00
1	13	2015	1	18	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	1	18	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00
1	13	2015	1	17	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	1	17	DSL	Rotary Table or Top Drive	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	17	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	17	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	17	DSL	Diesel Engine For Mud Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00
1	13	2015	1	19	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00
1	13	2015	1	19	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	1	19	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00
1	13	2015	1	18	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	1	18	DSL	Rotary Table or Top Drive	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	18	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	18	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	18	DSL	Diesel Engine For Mud Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00
1	13	2015	1	21	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00
1	13	2015	1	21	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	1	21	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00
1	13	2015	1	20	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	1	20	DSL	Rotary Table or Top Drive	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	20	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	20	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	20	DSL	Diesel Engine For Mud Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00
1	13	2015	1	23	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00
1	13	2015	1	23	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	1	23	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00

ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP	CATLOAD	CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	TOGGBHP	PMGBHP	NOXGBHP	ROGGBHP	COGBHP
230.00	250	176	250	217.000000000	0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000
20.00	50	0	50	35.101920000	0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000
80.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000
100.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000
420.00	500	251	500	354.711540000	0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000
135.00	175	121	175	150.479170000	0.502500000	0.367000000	1249.795948400	3.920185384	4899.431810100	0.605300744	0.427684380	7.200925017	0.506455132	4.250000000
455.00	500	251	500	367.025640000	0.502500000	0.367000000	1315.004200600	9.561513062	12573.429840000	0.291050679	0.151943144	4.895160585	0.243522103	4.250000000
442.00	500	251	500	367.025640000	0.502500000	0.367000000	1315.004200600	9.561513062	12573.429840000	0.291050679	0.151943144	4.895160585	0.243522103	4.250000000
424.00	500	251	500	367.025640000	0.502500000	0.367000000	1315.004200600	9.561513062	12573.429840000	0.291050679	0.151943144	4.895160585	0.243522103	4.250000000

SOXGBHP	PM10GBHP	PM25GBHP	CO2GBHP	CH4GBHP	N2OGBHP	TOGLBMG	PMLBMG	NOXLBMG	ROGLBMG	COLBMG	SOXLBMG	PM10LBMG	PM25LBMG
0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561
0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855
0.004994136	0.427684380	0.393469630	529.325410480	0.000066290	0.000029716	25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839	16.731852172
0.004994136	0.151943144	0.139787692	529.325410480	0.000066290	0.000029716	12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928
0.004994136	0.151943144	0.139787692	529.325410480	0.000066290	0.000029716	12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928
0.004994136	0.151943144	0.139787692	529.325410480	0.000066290	0.000029716	12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928
0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561
0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855
0.004994136	0.427684380	0.393469630	529.325410480	0.000066290	0.000029716	25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839	16.731852172
0.004994136	0.151943144	0.139787692	529.325410480	0.000066290	0.000029716	12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928
0.004994136	0.151943144	0.139787692	529.325410480	0.000066290	0.000029716	12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928
0.004994136	0.151943144	0.139787692	529.325410480	0.000066290	0.000029716	12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928
0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561
0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855
0.004994136	0.427684380	0.393469630	529.325410480	0.000066290	0.000029716	25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839	16.731852172
0.004994136	0.151943144	0.139787692	529.325410480	0.000066290	0.000029716	12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928
0.004994136	0.151943144	0.139787692	529.325410480	0.000066290	0.000029716	12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928
0.004994136	0.151943144	0.139787692	529.325410480	0.000066290	0.000029716	12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928
0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561
0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855
0.004994136	0.427684380	0.393469630	529.325410480	0.000066290	0.000029716	25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839	16.731852172
0.004994136	0.151943144	0.139787692	529.325410480	0.000066290	0.000029716	12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928
0.004994136	0.151943144	0.139787692	529.325410480	0.000066290	0.000029716	12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928
0.004994136	0.151943144	0.139787692	529.325410480	0.000066290	0.000029716	12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928
0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561
0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266

CO2LBMG	CH4LBMG	N2OLBMG	TOGLBD	PMLBD	NOXLBD	ROGLBD	COLBD	SOXLBD	PM10LBD	PM25LBD	CO2LBD	CH4LBD	N2OLBD
22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728
22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864
22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398
22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450
22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842
22508.966000000	1.278659612	0.573192240	1.991547536	1.407157983	23.692329184	1.666327823	13.983258929	0.016431599	1.407157983	1.294585344	1741.575122900	0.000218106	0.000097772
22508.966000000	1.278659612	0.573192240	3.227496010	1.684915809	54.283024960	2.700445912	47.128761574	0.055380575	1.684915809	1.550122545	5869.753191900	0.000735100	0.000329527
22508.966000000	1.278659612	0.573192240	3.135281838	1.636775358	52.732081390	2.623290314	45.782225529	0.053798273	1.636775358	1.505833329	5702.045957800	0.000714097	0.000320112
22508.966000000	1.278659612	0.573192240	3.007600678	1.570119348	50.584621062	2.516459487	43.917791005	0.051607393	1.570119348	1.444509800	5469.835941500	0.000685016	0.000307076

CO2ELBD	TOGLB	PMLB	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB	CO2LB	CH4LB	N2OLB
618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456
531.959686060	4.467866918	1.924977776	19.975688501	3.738264250	15.367460317	0.020075558	1.924977776	1.770979554	2127.796117400	0.000266475	0.000119454
701.804330920	3.334137426	2.931753669	34.480538134	2.789672784	22.538941799	0.026485304	2.931753669	2.697213375	2807.161086900	0.000351555	0.000157594
1914.011811600	9.093102070	7.995691823	94.037831274	7.608198502	61.469841270	0.072232646	7.995691823	7.356036477	7655.893873500	0.000958787	0.000429801
3684.472737300	6.093842297	3.488526912	92.398984815	5.098717850	88.747083333	0.104285883	3.488526912	3.209444759	11053.196780000	0.001384249	0.000620525
1741.610012400	5.974642608	4.221473949	71.076987552	4.998983470	41.949776786	0.049294798	4.221473949	3.883756033	5224.725368600	0.000654319	0.000293316
5869.870782500	9.682488030	5.054747428	162.849074880	8.101337735	141.386284720	0.166141726	5.054747428	4.650367634	17609.259576000	0.002205299	0.000988582
5702.160188700	9.405845515	4.910326073	158.196244170	7.869870943	137.346676590	0.161394819	4.910326073	4.517499987	17106.137874000	0.002142290	0.000960337
5469.945520400	9.022802033	4.710358043	151.753863190	7.549378461	131.753373020	0.154822180	4.710358043	4.333529399	16409.507824000	0.002055048	0.000921228
618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456
531.959686060	5.584833648	2.406222220	24.969610626	4.672830313	19.209325397	0.025094448	2.406222220	2.213724443	2659.745146800	0.000333094	0.000149318
701.804330920	4.167671782	3.664692086	43.100672667	3.487090980	28.173677249	0.033106630	3.664692086	3.371516719	3508.951358700	0.000439444	0.000196992
1914.011811600	11.366377588	9.994614779	117.547289090	9.510248128	76.837301587	0.090290808	9.994614779	9.195045597	9569.867341800	0.001198484	0.000537251
3684.472737300	8.125123063	4.651369216	123.198646420	6.798290467	118.329444440	0.139047844	4.651369216	4.279259678	14737.595706000	0.001845666	0.000827367
1741.610012400	7.966190144	5.628631932	94.769316736	6.665311294	55.933035714	0.065726397	5.628631932	5.178341378	6966.300491500	0.000872426	0.000391087
5869.870782500	12.909984041	6.739663237	217.132099840	10.801783647	188.515046300	0.221522301	6.739663237	6.200490178	23479.012768000	0.002940398	0.001318110
5702.160188700	12.541127354	6.547101431	210.928325560	10.493161257	183.128902120	0.215193092	6.547101431	6.023333316	22808.183831000	0.002856387	0.001280449
5469.945520400	12.030402710	6.280477391	202.338484250	10.065837948	175.671164020	0.206429573	6.280477391	5.778039199	21879.343766000	0.002740064	0.001228304
618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456
531.959686060	6.701800377	2.887466665	29.963532751	5.607396376	23.051190476	0.030113338	2.887466665	2.656469331	3191.694176100	0.000399712	0.000179181
701.804330920	5.001206139	4.397630503	51.720807201	4.184509176	33.808412698	0.039727956	4.397630503	4.045820063	4210.741630400	0.000527333	0.000236391
1914.011811600	13.639653106	11.993537735	141.056746910	11.412297753	92.204761905	0.108348970	11.993537735	11.034054716	11483.840810000	0.001438181	0.000644702
3684.472737300	10.156403829	5.814211519	153.998308030	8.497863084	147.911805560	0.173809805	5.814211519	5.349074598	18421.994633000	0.002307082	0.001034209
1741.610012400	9.957737681	7.035789915	118.461645920	8.331639117	69.916294643	0.082157996	7.035789915	6.472926722	8707.875614300	0.001090532	0.000488859
5869.870782500	16.137480051	8.424579047	271.415124800	13.502229558	235.643807870	0.276902876	8.424579047	7.750612723	29348.765959000	0.003675498	0.001647637
5702.160188700	15.676409192	8.183876788	263.660406950	13.116451571	228.911127650	0.268991366	8.183876788	7.529166645	28510.229789000	0.003570484	0.001600562
5469.945520400	15.038003388	7.850596738	252.923105310	12.582297435	219.588955030	0.258036966	7.850596738	7.222548999	27349.179707000	0.003425080	0.001535380
618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456
531.959686060	7.818767107	3.368711109	34.957454876	6.541962438	26.893055556	0.035132227	3.368711109	3.099214220	3723.643205500	0.000466331	0.000209045
701.804330920	5.834740495	5.130568920	60.340941734	4.881927372	39.443148148	0.046349281	5.130568920	4.720123406	4912.531902100	0.000615222	0.000275789
1914.011811600	15.912928623	13.992460691	164.566204730	13.314347379	107.572222220	0.126407131	13.992460691	12.873063835	13397.814279000	0.001677878	0.000752152
3684.472737300	12.187684595	6.977053823	184.797969630	10.197435700	177.494166670	0.208571766	6.977053823	6.418889517	22106.393560000	0.002768498	0.001241051
1741.610012400	11.949285217	8.442947898	142.153975100	9.997966941	83.899553571	0.098589596	8.442947898	7.767512066	10449.450737000	0.001308639	0.000586631
5869.870782500	19.364976061	10.109494856	325.698149760	16.202675470	282.772569440	0.332283452	10.109494856	9.300735268	35218.519151000	0.004410598	0.001977164
5702.160188700	18.811691031	9.820652146	316.392488340	15.739741885	274.693353170	0.322789639	9.820652146	9.034999974	34212.275747000	0.004284581	0.001920674
5469.945520400	18.045604066	9.420716086	303.507726370	15.098756922	263.506746030	0.309644359	9.420716086	8.667058799	32819.015649000	0.004110095	0.001842457
618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456
531.959686060	10.052700566	4.331199997	44.945299127	8.411094564	34.576785714	0.045170006	4.331199997	3.984703997	4787.541264200	0.000599569	0.000268772
701.804330920	7.501809208	6.596445754	77.581210801	6.276763764	50.712619048	0.059591933	6.596445754	6.068730094	6316.112445600	0.000791000	0.000354586
1914.011811600	20.459479658	17.990306602	211.585120370	17.118446630	138.307142860	0.162523454	17.990306602	16.551082074	17225.761215000	0.002157271	0.000967053
3684.472737300	16.250246126	9.302738431	246.397292840	13.596580934	236.658888890	0.278095689	9.302738431	8.558519357	29475.191413000	0.003691331	0.001654735
1741.610012400	15.932380289	11.257263864	189.538633470	13.330622588	111.866071430	0.131452794	11.257263864	10.356682755	13932.600983000	0.001744852	0.000782175
5869.870782500	25.819968081	13.479326475	434.264199680	21.603567294	377.030092590	0.443044602	13.479326475	12.400980357	46958.025535000	0.005880797	0.002636219
5702.160188700	25.082254707	13.094202861	421.856651120	20.986322514	366.257804230	0.430386185	13.094202861	12.046666632	45616.367663000	0.005712774	0.002560899
5469.945520400	24.060805421	12.560954781	404.676968490	20.131675896	351.342328040	0.412859146	12.560954781	11.556078399	43758.687532000	0.005480127	0.002456609
618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456
531.959686060	12.286634025	5.293688885	54.933143377	10.280226689	42.260515873	0.055207786	5.293688885	4.870193774	5851.439322900	0.000732806	0.000328499
701.804330920	9.168877921	8.062322588	94.821479868	7.671600157	61.982089947	0.072834585	8.062322588	7.417336781	7719.692989100	0.000966777	0.000433383
1914.011811600	25.006030694	21.988152514	258.604036000	20.922545881	169.042063490	0.198639778	21.988152514	20.229100313	21053.708152000	0.002636665	0.001181953

CO2ELB	TOGTON	PMTON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	CO2TONNE	CH4TONNE	N2OTONNE	CO2ETONNE
1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
2127.838744200	0.002233933	0.000962489	0.009987844	0.001869132	0.007683730	0.000010038	0.000962489	0.000885490	0.965168319	0.000000121	0.000000054	0.965187654
2807.217323700	0.001667069	0.001465877	0.017240269	0.001394836	0.011269471	0.000013243	0.001465877	0.001348607	1.273328269	0.000000159	0.000000071	1.273353778
7656.047246400	0.004546551	0.003997846	0.047018916	0.003804099	0.030734921	0.000036116	0.003997846	0.003678018	3.472713461	0.000000435	0.000000195	3.472783031
11053.418212000	0.003046921	0.001744263	0.046199492	0.002549359	0.044373542	0.000052143	0.001744263	0.001604722	5.013730059	0.000000628	0.000000281	5.013830501
5224.830037200	0.002987321	0.002110737	0.035538494	0.002499492	0.020974888	0.000024647	0.002110737	0.001941878	2.369935427	0.000000297	0.000000133	2.369982905
17609.612347000	0.004841244	0.002527374	0.081424537	0.004050669	0.070693142	0.000083071	0.002527374	0.002325184	7.987560144	0.000001000	0.000000448	7.987720161
17106.480566000	0.004702923	0.002455163	0.079098122	0.003934935	0.068673338	0.000080697	0.002455163	0.002258750	7.759344139	0.000000972	0.000000436	7.759499585
16409.836561000	0.004511401	0.002355179	0.075876932	0.003774689	0.065876687	0.000077411	0.002355179	0.002166765	7.443352749	0.000000932	0.000000418	7.443501864
1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
2659.798430300	0.002792417	0.001203111	0.012484805	0.002336415	0.009604663	0.000012547	0.001203111	0.001106862	1.206460399	0.000000151	0.000000068	1.206484568
3509.021654600	0.002083836	0.001832346	0.021550336	0.001743545	0.014086839	0.000016553	0.001832346	0.001685758	1.591660336	0.000000199	0.000000089	1.591692223
9570.059058000	0.005683189	0.004997307	0.058773645	0.004755124	0.038418651	0.000045145	0.004997307	0.004597523	4.340891826	0.000000544	0.000000244	4.340978789
14737.890949000	0.004062562	0.002325685	0.061599323	0.003399145	0.059164722	0.000069524	0.002325685	0.002139630	6.684973412	0.000000837	0.000000375	6.685107335
6966.440049500	0.003983095	0.002814316	0.047384658	0.003332656	0.027966518	0.000032863	0.002814316	0.002589171	3.159913903	0.000000396	0.000000177	3.159977206
23479.483130000	0.006454992	0.003369832	0.108566050	0.005400892	0.094257523	0.000110761	0.003369832	0.003100245	10.650080191	0.000001334	0.000000598	10.650293548
22808.640755000	0.006270564	0.003273551	0.105464163	0.005246581	0.091564451	0.000107597	0.003273551	0.003011667	10.345792186	0.000001296	0.000000581	10.345999446
21879.782082000	0.006015201	0.003140239	0.101169242	0.005032919	0.087835582	0.000103215	0.003140239	0.002889020	9.924470332	0.000001243	0.000000557	9.924669152
1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
3191.758116300	0.003350900	0.001443733	0.014981766	0.002803698	0.011525595	0.000015057	0.001443733	0.001328235	1.447752478	0.000000181	0.000000081	1.447781482
4210.825985500	0.002500603	0.002198815	0.025860404	0.002092255	0.016904206	0.000019864	0.002198815	0.002022910	1.909992404	0.000000239	0.000000107	1.910030667
11484.070870000	0.006819827	0.005996769	0.070528373	0.005706149	0.046102381	0.000054174	0.005996769	0.005517027	5.209070192	0.000000652	0.000000292	5.209174546
18422.363687000	0.005078202	0.002907106	0.076999154	0.004248932	0.073955903	0.000086905	0.002907106	0.002674537	8.356216766	0.000001046	0.000000469	8.356384168
8708.050061900	0.004978869	0.003517895	0.059230823	0.004165820	0.034958147	0.000041079	0.003517895	0.003236463	3.949892379	0.000000495	0.000000222	3.949971508
29349.353912000	0.008068740	0.004212290	0.135707562	0.006751115	0.117821904	0.000138451	0.004212290	0.003875306	13.312600239	0.000001667	0.000000747	13.312866935
28510.800944000	0.007838205	0.004091938	0.131830203	0.006558226	0.114455564	0.000134496	0.004091938	0.003764583	12.932240232	0.000001620	0.000000726	12.932499308
27349.727602000	0.007519002	0.003925298	0.126461553	0.006291149	0.109794478	0.000129018	0.003925298	0.003611275	12.405587915	0.000001554	0.000000696	12.405836440
1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
3723.717802400	0.003909384	0.001684356	0.017478727	0.003270981	0.013446528	0.000017566	0.001684356	0.001549607	1.689044558	0.000000212	0.000000095	1.689078395
4912.630316400	0.002917370	0.002565284	0.030170471	0.002440964	0.019721574	0.000023175	0.002565284	0.002360062	2.228324471	0.000000279	0.000000125	2.228369112
13398.082681000	0.007956464	0.006996230	0.082283102	0.006657174	0.053786111	0.000063204	0.006996230	0.006436532	6.077248557	0.000000761	0.000000341	6.077370304
22106.836424000	0.006093842	0.003488527	0.092398985	0.005098718	0.088747083	0.000104286	0.003488527	0.003209445	10.027460119	0.000001256	0.000000563	10.027661002
10449.660074000	0.005974643	0.004221474	0.071076988	0.004998983	0.041949777	0.000049295	0.004221474	0.003883756	4.739870854	0.000000594	0.000000266	4.739965810
35219.224695000	0.009682488	0.005054747	0.162849075	0.008101338	0.141386285	0.000166142	0.005054747	0.004650368	15.975120287	0.000002001	0.000000897	15.975440322
34212.961132000	0.009405846	0.004910326	0.158196244	0.007869871	0.137346677	0.000161395	0.004910326	0.004517500	15.518688279	0.000001943	0.000000871	15.518999170
32819.673122000	0.009022802	0.004710358	0.151753863	0.007549378	0.131753373	0.000154822	0.004710358	0.004333529	14.886705498	0.000001864	0.000000836	14.887003728
1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
4787.637174500	0.005026350	0.002165600	0.022472650	0.004205547	0.017288393	0.000022585	0.002165600	0.001992352	2.171628717	0.000000272	0.000000122	2.171672222
6316.238978300	0.003750905	0.003298223	0.038790605	0.003138382	0.025356310	0.000029796	0.003298223	0.003034365	2.864988605	0.000000359	0.000000161	2.865046001
17226.106304000	0.010229740	0.008995153	0.105792560	0.008559223	0.069153571	0.000081262	0.008995153	0.008275541	7.813605287	0.000000979	0.000000439	7.813761820
29475.781899000	0.008125123	0.004651369	0.123198646	0.006798290	0.118329444	0.000139048	0.004651369	0.004279260	13.369946825	0.000001674	0.000000751	13.370214669
13932.880099000	0.007966190	0.005628632	0.094769317	0.006665311	0.055933036	0.000065726	0.005628632	0.005178341	6.319827806	0.000000791	0.000000355	6.319954413
46958.966260000	0.012909984	0.006739663	0.217132100	0.010801784	0.188515046	0.000221522	0.006739663	0.006200490	21.300160383	0.000002668	0.000001196	21.300587095
45617.281510000	0.012541127	0.006547101	0.210928326	0.010493161	0.183128902	0.000215193	0.006547101	0.006023333	20.691584372	0.000002591	0.000001162	20.691998893
43759.564163000	0.012030403	0.006280477	0.202338484	0.010065838	0.175671164	0.000206430	0.006280477	0.005778039	19.848940664	0.000002486	0.000001114	19.849338304
1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
5851.556546600	0.006143317	0.002646844	0.027466572	0.005140113	0.021130258	0.000027604	0.002646844	0.002435097	2.654212877	0.000000332	0.000000149	2.654266050
7719.847640100	0.004584439	0.004031161	0.047410740	0.003835800	0.030991045	0.000036417	0.004031161	0.003708668	3.501652740	0.000000439	0.000000197	3.501722890
21054.129928000	0.012503015	0.010994076	0.129302018	0.010461273	0.084521032	0.000099320	0.010994076	0.010114550	9.549962018	0.000001196	0.000000536	9.550153335

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR
IPK_4AB0FNSX	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	10.00	7	01/22/2015	2015	2015
IPK_4AB0FNSX	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	10.00	7	01/22/2015	2015	2015
IPK_4AB0FNSX	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	10.00	7	01/22/2015	2015	2015
IPK_4AB0FNSX	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	10.00	7	01/22/2015	2015	2015
IPK_4AB0FNSX	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	10.00	7	01/22/2015	2015	2015
IPK_4AB0FNT6	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015
IPK_4AB0FNT6	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	13.00	7	01/25/2015	2015	2015
IPK_4AB0FNT6	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	13.00	7	01/25/2015	2015	2015
IPK_4AB0FNT7	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	13.00	7	01/25/2015	2015	2015
IPK_4AB0FNT7	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	12.00	7	01/24/2015	2015	2015
IPK_4AB0FNT7	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	12.00	7	01/24/2015	2015	2015
IPK_4AB0FNT7	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	12.00	7	01/24/2015	2015	2015
IPK_4AB0FNT7	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	12.00	7	01/24/2015	2015	2015
IPK_4AB0FNT8	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	12.00	7	01/24/2015	2015	2015
IPK_4AB0FNTG	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015
IPK_4AB0FNTG	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	16.00	7	01/28/2015	2015	2015
IPK_4AB0FNTH	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	16.00	7	01/28/2015	2015	2015
IPK_4AB0FNTH	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	16.00	7	01/28/2015	2015	2015
IPK_4AB0FNTH	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	15.00	7	01/27/2015	2015	2015
IPK_4AB0FNTH	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	15.00	7	01/27/2015	2015	2015
IPK_4AB0FNTI	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	15.00	7	01/27/2015	2015	2015
IPK_4AB0FNTI	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	15.00	7	01/27/2015	2015	2015
IPK_4AB0FNTI	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	15.00	7	01/27/2015	2015	2015
IPK_4AB0FNTR	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015
IPK_4AB0FNTR	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	19.00	7	01/31/2015	2015	2015
IPK_4AB0FNTR	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	19.00	7	01/31/2015	2015	2015
IPK_4AB0FNTR	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	19.00	7	01/31/2015	2015	2015
IPK_4AB0FNTS	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	18.00	7	01/30/2015	2015	2015
IPK_4AB0FNTS	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	18.00	7	01/30/2015	2015	2015
IPK_4AB0FNTS	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	18.00	7	01/30/2015	2015	2015
IPK_4AB0FNTS	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	18.00	7	01/30/2015	2015	2015
IPK_4AB0FNTS	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	18.00	7	01/30/2015	2015	2015
IPK_4AB0FNU1	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015
IPK_4AB0FNU1	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	24.00	7	02/05/2015	2015	2015
IPK_4AB0FNU1	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	24.00	7	02/05/2015	2015	2015
IPK_4AB0FNU2	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	24.00	7	02/05/2015	2015	2015
IPK_4AB0FNU2	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	23.00	7	02/04/2015	2015	2015
IPK_4AB0FNU2	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	23.00	7	02/04/2015	2015	2015
IPK_4AB0FNU2	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	23.00	7	02/04/2015	2015	2015
IPK_4AB0FNU2	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	23.00	7	02/04/2015	2015	2015
IPK_4AB0FNU2	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	23.00	7	02/04/2015	2015	2015
IPK_4AB0FNUB	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015
IPK_4AB0FNUB	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	29.00	7	02/10/2015	2015	2015
IPK_4AB0FNUB	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	29.00	7	02/10/2015	2015	2015
IPK_4AB0FNUC	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	29.00	7	02/10/2015	2015	2015
IPK_4AB0FNUC	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	28.00	7	02/09/2015	2015	2015
IPK_4AB0FNUC	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	28.00	7	02/09/2015	2015	2015
IPK_4AB0FNUC	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	28.00	7	02/09/2015	2015	2015
IPK_4AB0FNUC	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	28.00	7	02/09/2015	2015	2015

STARTMO	STARTDAY	ENDYR	ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT
1	13	2015	1	22	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	1	22	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	22	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	22	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	22	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00
1	13	2015	1	25	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00
1	13	2015	1	25	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	1	25	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00
1	13	2015	1	24	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	1	24	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	24	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	24	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	24	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00
1	13	2015	1	28	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00
1	13	2015	1	28	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	1	28	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00
1	13	2015	1	27	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	1	27	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	27	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	27	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	27	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00
1	13	2015	1	31	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00
1	13	2015	1	31	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	1	31	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00
1	13	2015	1	30	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	1	30	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	30	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	30	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	30	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00
1	13	2015	2	5	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00
1	13	2015	2	5	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	2	5	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00
1	13	2015	2	4	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	2	4	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	2	4	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	2	4	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	2	4	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00
1	13	2015	2	10	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00
1	13	2015	2	10	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	2	10	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00
1	13	2015	2	9	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	2	9	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	2	9	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	2	9	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00

ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP	CATLOAD	CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	TOGGBHP	PMGBHP	NOXGBHP	ROGGBHP	COGBHP
420.00	500	251	500	354.711540000	0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000
144.00	175	121	175	150.479170000	0.502500000	0.367000000	1249.795948400	3.920185384	4899.431810100	0.605300744	0.427684380	7.200925017	0.506455132	4.250000000
996.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000
981.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000
1145.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000
230.00	250	176	250	217.000000000	0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000
20.00	50	0	50	35.101920000	0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000
80.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000
100.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000

SOXGBHP	PM10GBHP	PM25GBHP	CO2GBHP	CH4GBHP	N2OGBHP	TOGLBMG	PMLBMG	NOXLBMG	ROGLBMG	COLBMG	SOXLBMG	PM10LBMG	PM25LBMG
0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855
0.004994136	0.427684380	0.393469630	529.325410480	0.000066290	0.000029716	25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839	16.731852172
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561
0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855
0.004994136	0.427684380	0.393469630	529.325410480	0.000066290	0.000029716	25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839	16.731852172
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561
0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855
0.004994136	0.427684380	0.393469630	529.325410480	0.000066290	0.000029716	25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839	16.731852172
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561
0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855
0.004994136	0.427684380	0.393469630	529.325410480	0.000066290	0.000029716	25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839	16.731852172
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561
0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855
0.004994136	0.427684380	0.393469630	529.325410480	0.000066290	0.000029716	25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839	16.731852172
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478

CO2LBMG	CH4LBMG	N2OLBMG	TOGLBD	PMLBD	NOXLBD	ROGLBD	COLBD	SOXLBD	PM10LBD	PM25LBD	CO2LBD	CH4LBD	N2OLBD
22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842
22508.966000000	1.278659612	0.573192240	2.124317372	1.500968515	25.271817796	1.777416345	14.915476190	0.017527039	1.500968515	1.380891034	1857.680131100	0.000232647	0.000104290
22508.966000000	1.278659612	0.573192240	7.309296041	3.866515546	131.967908860	6.115687997	103.165376980	0.121228688	3.866515546	3.557194302	12848.954240000	0.001609141	0.000721339
22508.966000000	1.278659612	0.573192240	7.199216281	3.808284890	129.980440360	6.023584262	101.611681550	0.119402955	3.808284890	3.503622099	12655.445893000	0.001584907	0.000710476
22508.966000000	1.278659612	0.573192240	8.402754987	4.444940060	151.710096030	7.030585097	118.598751650	0.139364305	4.444940060	4.089344855	14771.137153000	0.001849866	0.000829250
22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728
22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864
22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398
22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450

CO2ELBD	TOGLB	PMLB	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB	CO2LB	CH4LB	N2OLB
3684.472737300	20.312807658	11.628423039	307.996616050	16.995726167	295.823611110	0.347619611	11.628423039	10.698149196	36843.989266000	0.004614164	0.002068418
1857.717346500	21.243173719	15.009685153	252.718177960	17.774163450	149.154761900	0.175270392	15.009685153	13.808910340	18576.801311000	0.002326469	0.001042900
12849.211647000	73.092960408	38.665155458	1319.679088600	61.156879973	1031.653769800	1.212286878	38.665155458	35.571943021	128489.542400000	0.016091411	0.007213391
12655.699423000	71.992162811	38.082848900	1299.804403600	60.235842624	1016.116815500	1.194029546	38.082848900	35.036220988	126554.458930000	0.015849071	0.007104756
14771.433068000	84.027549866	44.449400602	1517.100960300	70.305850973	1185.987516500	1.393643048	44.449400602	40.893448554	147711.371530000	0.018498661	0.008292503
618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456
531.959686060	14.520567484	6.256177773	64.920987627	12.149358814	49.944246032	0.065245565	6.256177773	5.755683551	6915.337381600	0.000866044	0.000388226
701.804330920	10.835946634	9.528199423	112.061748930	9.066436549	73.251560847	0.086077237	9.528199423	8.765943469	9123.273532500	0.001142555	0.000512180
1914.011811600	29.552581729	25.985998425	305.622951640	24.726645133	199.776984130	0.234756101	25.985998425	23.907118551	24881.655089000	0.003116059	0.001396854
3684.472737300	24.375369189	13.954107647	369.595939260	20.394871401	354.988333330	0.417143533	13.954107647	12.837779035	44212.787119000	0.005536997	0.002482102
1857.717346500	25.491808462	18.011622183	303.261813560	21.328996140	178.985714290	0.210324470	18.011622183	16.570692408	22292.161573000	0.002791763	0.001251480
12849.211647000	87.711552489	46.398186550	1583.614906400	73.388255968	1237.984523800	1.454744254	46.398186550	42.686331626	154187.450880000	0.019309694	0.008656070
12655.699423000	86.390595373	45.699418680	1559.765284300	72.283011149	1219.340178600	1.432835455	45.699418680	42.043465185	151865.350710000	0.019018885	0.008525707
14771.433068000	100.833059840	53.339280722	1820.521152400	84.367021168	1423.185019800	1.672371657	53.339280722	49.072138264	177253.645840000	0.022198393	0.009951004
618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456
531.959686060	17.871467673	7.699911105	79.902754003	14.953057002	61.469841270	0.080302234	7.699911105	7.083918217	8511.184469700	0.001065900	0.000477817
701.804330920	13.336549703	11.727014674	137.922152540	11.158691137	90.155767196	0.105941215	11.727014674	10.788853500	11228.644348000	0.001406221	0.000630375
1914.011811600	36.372408282	31.982767293	376.151325100	30.432794009	245.879365080	0.288930586	31.982767293	29.424145909	30623.575494000	0.003835149	0.001719205
3684.472737300	30.469211487	17.442634558	461.994924080	25.493589251	443.735416670	0.521429416	17.442634558	16.047223794	55265.983899000	0.006921246	0.003102627
1857.717346500	31.864760578	22.514527729	379.077266940	26.661245175	223.732142860	0.262905588	22.514527729	20.713365511	27865.201966000	0.003489704	0.001564350
12849.211647000	109.639440610	57.997733187	1979.518633000	91.735319960	1547.480654800	1.818430317	57.997733187	53.357914532	192734.313600000	0.024137117	0.010820087
12655.699423000	107.988244220	57.124273350	1949.706605400	90.353763936	1524.175223200	1.791044318	57.124273350	52.554331482	189831.688390000	0.023773606	0.010657134
14771.433068000	126.041324800	66.674100903	2275.651440500	105.458776460	1778.981274800	2.090464571	66.674100903	61.340172831	221567.057300000	0.027747991	0.012438755
618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456
531.959686060	21.222367861	9.143644438	94.884520378	17.756755190	72.995436508	0.095358902	9.143644438	8.412152883	10107.031558000	0.001265756	0.000567408
701.804330920	15.837152773	13.925829925	163.782556140	13.250945725	107.059973540	0.125805192	13.925829925	12.811763531	13334.015163000	0.001669888	0.000748570
1914.011811600	43.192234834	37.979536160	446.679698550	36.138942886	291.981746030	0.343105070	37.979536160	34.941173267	36365.495899000	0.004554240	0.002041556
3684.472737300	36.563053784	20.931161470	554.393908890	30.592307101	532.482500000	0.625715299	20.931161470	19.256668552	66319.180679000	0.008305495	0.003723153
1857.717346500	38.237712693	27.017433275	454.892720330	31.993494211	268.478571430	0.315486706	27.017433275	24.856038613	33438.242359000	0.004187644	0.001877220
12849.211647000	131.567328730	69.597279824	2375.422359500	110.082383950	1856.976785700	2.182116380	69.597279824	64.029497438	231281.176320000	0.028964541	0.012984104
12655.699423000	129.585893060	68.549128020	2339.647926400	108.424516720	1829.010267900	2.149253182	68.549128020	63.065197778	227798.026070000	0.028528328	0.012788561
14771.433068000	151.249589760	80.008921083	2730.781728600	126.550531750	2134.777529800	2.508557486	80.008921083	73.608207397	265880.468760000	0.033297589	0.014926506
618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456
531.959686060	26.807201509	11.549866658	119.854131000	22.429585503	92.204761905	0.120453350	11.549866658	10.625877326	12766.776705000	0.001598850	0.000716726
701.804330920	20.004824555	17.590522011	206.883228800	16.738036705	135.233650790	0.158911822	17.590522011	16.183280250	16842.966522000	0.002109332	0.000945563
1914.011811600	54.558612422	47.974150939	564.226987640	45.649191014	368.819047620	0.433395878	47.974150939	44.136218864	45935.363241000	0.005752724	0.002578807
3684.472737300	46.719457613	26.745372989	708.392216920	39.090170185	680.394305560	0.799525105	26.745372989	24.605743150	84741.175312000	0.010612577	0.004757362
1857.717346500	48.859299553	34.522275851	581.251809310	40.880575936	343.055952380	0.403121902	34.522275851	31.760493783	42726.643014000	0.005350879	0.002398670
12849.211647000	168.113808940	88.929857553	3035.261903900	140.660823940	2372.803670600	2.788259819	88.929857553	81.815468949	295525.947520000	0.037010246	0.016590800
12655.699423000	165.581974470	87.590552470	2989.550128200	138.542438040	2337.068675600	2.746267955	87.590552470	80.583308272	291075.255540000	0.036452863	0.016340939
14771.433068000	193.263364690	102.233621380	3489.332208800	161.703457240	2727.771288000	3.205379009	102.233621380	94.054931673	339736.154520000	0.042546920	0.019072757
618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456
531.959686060	32.392035157	13.956088879	144.823741630	27.102415816	111.414087300	0.145547798	13.956088879	12.839601768	15426.521851000	0.001931943	0.000866044
701.804330920	24.172496337	21.255214097	249.983901470	20.225127685	163.407328040	0.192018452	21.255214097	19.554796969	20351.917880000	0.002548776	0.001142555
1914.011811600	65.924990010	57.968765718	681.774276740	55.159439142	445.656349210	0.523686686	57.968765718	53.331264461	55505.230583000	0.006951208	0.003116059
3684.472737300	56.875861442	32.559584509	862.390524940	47.588033268	828.306111110	0.973334910	32.559584509	29.954817748	103163.169940000	0.012919659	0.005791571
2038.328755200	65.263750369	46.113088274	776.406402300	54.606179933	458.236574070	0.538469593	46.113088274	42.424041212	57072.061804000	0.007147430	0.003204020
14113.491508000	224.797546510	118.914763250	4058.675687100	188.088107160	3172.853240700	3.728390728	118.914763250	109.401582190	395169.845660000	0.049489168	0.022184800
12410.583940000	197.673893730	104.566729660	3568.963446900	165.393746880	2790.022685200	3.278530055	104.566729660	96.201391288	347489.388960000	0.043517897	0.019508023

CO2ELB	TOGTON	PMTON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	CO2TONNE	CH4TONNE	N2OTONNE	CO2ETONNE
36844.727373000	0.010156404	0.005814212	0.153998308	0.008497863	0.147911806	0.000173810	0.005814212	0.005349075	16.712433531	0.000002093	0.000000938	16.712768336
18577.173465000	0.010621587	0.007504843	0.126359089	0.008887082	0.074577381	0.000087635	0.007504843	0.006904455	8.426437074	0.000001055	0.000000473	8.426605884
128492.116470000	0.036546480	0.019332578	0.659839544	0.030578440	0.515826885	0.000606143	0.019332578	0.017785972	58.282856432	0.000007299	0.000003272	58.284024030
126556.994230000	0.035996081	0.019041424	0.649902202	0.030117921	0.508058408	0.000597015	0.019041424	0.017518110	57.405102570	0.000007189	0.000003223	57.406252584
147714.330680000	0.042013775	0.022224700	0.758550480	0.035152925	0.592993758	0.000696822	0.022224700	0.020446724	67.001878127	0.000008391	0.000003761	67.003220397
1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
6915.475918700	0.007260284	0.003128089	0.032460494	0.006074679	0.024972123	0.000032623	0.003128089	0.002877842	3.136797036	0.000000393	0.000000176	3.136859877
9123.456301900	0.005417973	0.004764100	0.056030874	0.004533218	0.036625780	0.000043039	0.004764100	0.004382972	4.138316874	0.000000518	0.000000232	4.138399779
24882.153551000	0.014776291	0.012992999	0.152811476	0.012363323	0.099888492	0.000117378	0.012992999	0.011953559	11.286318748	0.000001413	0.000000634	11.286544851
44213.672848000	0.012187685	0.006977054	0.184797970	0.010197436	0.177494167	0.000208572	0.006977054	0.006418890	20.054920237	0.000002512	0.000001126	20.055322004
22292.608159000	0.012745904	0.009005811	0.151630907	0.010664498	0.089492857	0.000105162	0.009005811	0.008285346	10.111724489	0.000001266	0.000000568	10.111927061
154190.539760000	0.043855776	0.023199093	0.791807453	0.036694128	0.618992262	0.000727372	0.023199093	0.021343166	69.939427718	0.000008759	0.000003926	69.940828837
151868.393080000	0.043195298	0.022849709	0.779882642	0.036141506	0.609670089	0.000716418	0.022849709	0.021021733	68.886123084	0.000008627	0.000003867	68.887503101
177257.196820000	0.050416530	0.026669640	0.910260576	0.042183511	0.711592510	0.000836186	0.026669640	0.024536069	80.402253752	0.000010069	0.000004514	80.403864476
1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
8511.354976900	0.008935734	0.003849956	0.039951377	0.007476529	0.030734921	0.000040151	0.003849956	0.003541959	3.860673275	0.000000483	0.000000217	3.860750618
11228.869295000	0.006668275	0.005863507	0.068961076	0.005579346	0.045077884	0.000052971	0.005863507	0.005394427	5.093313076	0.000000638	0.000000286	5.093415112
30624.188985000	0.018186204	0.015991384	0.188075663	0.015216397	0.122939683	0.000144465	0.015991384	0.014712073	13.890853844	0.000001740	0.000000780	13.891132124
55267.091060000	0.015234606	0.008721317	0.230997462	0.012746795	0.221867708	0.000260715	0.008721317	0.008023612	25.068650297	0.000003139	0.000001407	25.069152505
27865.760198000	0.015932380	0.011257264	0.189538633	0.013330623	0.111866071	0.000131453	0.011257264	0.010356683	12.639655612	0.000001583	0.000000710	12.639908826
192738.174700000	0.054819720	0.028998867	0.989759316	0.045867660	0.773740327	0.000909215	0.028998867	0.026678957	87.424284648	0.000010949	0.000004908	87.426036046
189835.491350000	0.053994122	0.028562137	0.974853303	0.045176882	0.762087612	0.000895522	0.028562137	0.026277166	86.107653855	0.000010784	0.000004834	86.109378876
221571.496020000	0.063020662	0.033337050	1.137825720	0.052729388	0.889490637	0.001045232	0.033337050	0.030670086	100.502817190	0.000012586	0.000005642	100.504830590
1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
10107.234035000	0.010611184	0.004571822	0.047442260	0.008878378	0.036497718	0.000047679	0.004571822	0.004206076	4.584549515	0.000000574	0.000000257	4.584641358
13334.282287000	0.007918576	0.006962915	0.081891278	0.006625473	0.053529987	0.000062903	0.006962915	0.006405882	6.048309278	0.000000757	0.000000340	6.048430446
36366.224420000	0.021596117	0.018989768	0.223339849	0.018069471	0.145990873	0.000171553	0.018989768	0.017470587	16.495388940	0.000002066	0.000000926	16.495719397
66320.509272000	0.018281527	0.010465581	0.277196954	0.015296154	0.266241250	0.000312858	0.010465581	0.009628334	30.082380356	0.000003767	0.000001689	30.082983006
33438.912238000	0.019118856	0.013508717	0.227446360	0.015996747	0.134239286	0.000157743	0.013508717	0.012428019	15.167586734	0.000001900	0.000000852	15.167890591
231285.809640000	0.065783664	0.034798640	1.187711180	0.055041192	0.928488393	0.001091058	0.034798640	0.032014749	104.909141580	0.000013138	0.000005890	104.911243250
227802.589620000	0.064792947	0.034274564	1.169823963	0.054212258	0.914505134	0.001074627	0.034274564	0.031532599	103.329184630	0.000012940	0.000005801	103.331254650
265885.795220000	0.075624795	0.040004461	1.365390864	0.063275266	1.067388765	0.001254279	0.040004461	0.036804104	120.603380630	0.000015104	0.000006771	120.605796710
1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
12767.032465000	0.013403601	0.005774933	0.059927066	0.011214793	0.046102381	0.000060227	0.005774933	0.005312939	5.791009913	0.000000725	0.000000325	5.791125926
16843.303942000	0.010002412	0.008795261	0.103441614	0.008369018	0.067616825	0.000079456	0.008795261	0.008091640	7.639969614	0.000000957	0.000000429	7.640122668
45936.283478000	0.027279306	0.023987075	0.282113494	0.022824596	0.184409524	0.000216698	0.023987075	0.022068109	20.836280766	0.000002609	0.000001170	20.836698186
84742.872958000	0.023359729	0.013372686	0.354196108	0.019545085	0.340197153	0.000399763	0.013372686	0.012302872	38.438597121	0.000004814	0.000002158	38.439367174
42727.498971000	0.024429650	0.017261138	0.290625905	0.020440288	0.171527976	0.000201561	0.017261138	0.015880247	19.380805271	0.000002427	0.000001088	19.381193533
295531.867880000	0.084056904	0.044464929	1.517630952	0.070330412	1.186401835	0.001394130	0.044464929	0.040907734	134.050569790	0.000016788	0.000007526	134.053255270
291081.086740000	0.082790987	0.043795276	1.494775064	0.069271219	1.168534338	0.001373134	0.043795276	0.040291654	132.031735910	0.000016535	0.000007412	132.034380940
339742.960560000	0.096631682	0.051116811	1.744666104	0.080851729	1.363885644	0.001602690	0.051116811	0.047027466	154.104319690	0.000019299	0.000008651	154.107406910
1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
15426.830896000	0.016196018	0.006978044	0.072411871	0.013551208	0.055707044	0.000072774	0.006978044	0.006419801	6.997470312	0.000000876	0.000000393	6.997610494
20352.325597000	0.012086248	0.010627607	0.124991951	0.010112564	0.081703664	0.000096009	0.010627607	0.009777398	9.231629951	0.000001156	0.000000518	9.231814891
55506.342536000	0.032962495	0.028984383	0.340887138	0.027579720	0.222828175	0.000261843	0.028984383	0.026665632	25.177172592	0.000003153	0.000001413	25.177676974
103165.236640000	0.028437931	0.016279792	0.431195262	0.023794017	0.414153056	0.000486667	0.016279792	0.014977409	46.794813887	0.000005860	0.000002627	46.795751342
57073.205147000	0.032631875	0.023056544	0.388203201	0.027303090	0.229118287	0.000269235	0.023056544	0.021212021	25.887887234	0.000003242	0.000001453	25.888405855
395177.762220000	0.112398773	0.059457382	2.029337844	0.094044054	1.586426620	0.001864195	0.059457382	0.054700791	179.249041990	0.000022448	0.000010063	179.252632940
347496.350320000	0.098836947	0.052283365	1.784481723	0.082696873	1.395011343	0.001639265	0.052283365	0.048100696	157.621186830	0.000019740	0.000008849	157.624344510

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR
IPK_4AB0FNUD	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	28.00	7	02/09/2015	2015	2015
IPK_4AB0FNUL	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015
IPK_4AB0FNUL	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	36.00	7	02/17/2015	2015	2015
IPK_4AB0FNUL	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	36.00	7	02/17/2015	2015	2015
IPK_4AB0FNUM	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	36.00	7	02/17/2015	2015	2015
IPK_4AB0FNUM	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	35.00	7	02/16/2015	2015	2015
IPK_4AB0FNUM	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	35.00	7	02/16/2015	2015	2015
IPK_4AB0FNUM	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	35.00	7	02/16/2015	2015	2015
IPK_4AB0FNUN	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	35.00	7	02/16/2015	2015	2015
IPK_4AB0FNUN	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	35.00	7	02/16/2015	2015	2015
IPK_4AB0FNUV	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015
IPK_4AB0FNUV	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	44.00	7	02/25/2015	2015	2015
IPK_4AB0FNUV	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	44.00	7	02/25/2015	2015	2015
IPK_4AB0FNUW	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	44.00	7	02/25/2015	2015	2015
IPK_4AB0FNUW	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	43.00	7	02/24/2015	2015	2015
IPK_4AB0FNUW	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	43.00	7	02/24/2015	2015	2015
IPK_4AB0FNUW	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	43.00	7	02/24/2015	2015	2015
IPK_4AB0FNUX	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	43.00	7	02/24/2015	2015	2015
IPK_4AB0FNUX	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	43.00	7	02/24/2015	2015	2015
IPK_4AB0FNV5	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015
IPK_4AB0FNV5	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	54.00	7	03/07/2015	2015	2015
IPK_4AB0FNV6	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	54.00	7	03/07/2015	2015	2015
IPK_4AB0FNV6	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	54.00	7	03/07/2015	2015	2015
IPK_4AB0FNV6	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	53.00	7	03/06/2015	2015	2015
IPK_4AB0FNV7	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	53.00	7	03/06/2015	2015	2015
IPK_4AB0FNV7	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	53.00	7	03/06/2015	2015	2015
IPK_4AB0FNV7	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	53.00	7	03/06/2015	2015	2015
IPK_4AB0FNVF	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015
IPK_4AB0FNVF	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	66.00	7	03/19/2015	2015	2015
IPK_4AB0FNVF	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	66.00	7	03/19/2015	2015	2015
IPK_4AB0FNVG	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	66.00	7	03/19/2015	2015	2015
IPK_4AB0FNVG	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	65.00	7	03/18/2015	2015	2015
IPK_4AB0FNVG	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	65.00	7	03/18/2015	2015	2015
IPK_4AB0FNVH	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	65.00	7	03/18/2015	2015	2015
IPK_4AB0FNVH	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	65.00	7	03/18/2015	2015	2015
IPK_4AB0FNVH	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	65.00	7	03/18/2015	2015	2015
IPK_4AB0FNVP	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015
IPK_4AB0FNVP	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	82.00	7	04/04/2015	2015	2015
IPK_4AB0FNVP	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	82.00	7	04/04/2015	2015	2015
IPK_4AB0FNVP	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	82.00	7	04/04/2015	2015	2015
IPK_4AB0FNVQ	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	81.00	7	04/03/2015	2015	2015
IPK_4AB0FNVQ	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	81.00	7	04/03/2015	2015	2015
IPK_4AB0FNVQ	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	81.00	7	04/03/2015	2015	2015
IPK_4AB0FNVQ	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	81.00	7	04/03/2015	2015	2015
IPK_4AB0FNVR	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	81.00	7	04/03/2015	2015	2015
IPK_4AB0FNVY	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015
IPK_4AB0FNVZ	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	101.00	7	04/23/2015	2015	2015
IPK_4AB0FNVZ	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	101.00	7	04/23/2015	2015	2015

STARTMO	STARTDAY	ENDYR	ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT
1	13	2015	2	9	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00
1	13	2015	2	17	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00
1	13	2015	2	17	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	2	17	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00
1	13	2015	2	16	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	2	16	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	2	16	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	2	16	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	2	16	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00
1	13	2015	2	25	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00
1	13	2015	2	25	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	2	25	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00
1	13	2015	2	24	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	2	24	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	2	24	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	2	24	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	2	24	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00
1	13	2015	3	7	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00
1	13	2015	3	7	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	3	7	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00
1	13	2015	3	6	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	3	6	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	3	6	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	3	6	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	3	6	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00
1	13	2015	3	19	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00
1	13	2015	3	19	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	3	19	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00
1	13	2015	3	18	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	3	18	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	3	18	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	3	18	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	3	18	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00
1	13	2015	4	4	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00
1	13	2015	4	4	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	4	4	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00
1	13	2015	4	3	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	4	3	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	4	3	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	4	3	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	4	3	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00
1	13	2015	4	23	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00
1	13	2015	4	23	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00

ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP	CATLOAD	CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	TOGGBHP	PMGBHP	NOXGBHP	ROGGBHP	COGBHP
1898.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000
230.00	250	176	250	217.000000000	0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000
20.00	50	0	50	35.101920000	0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000
80.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000
100.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000
420.00	500	251	500	354.711540000	0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000
158.00	175	121	175	150.479170000	0.502500000	0.367000000	1249.795948400	3.920185384	4899.431810100	0.605300744	0.427684380	7.200925017	0.506455132	4.250000000
1094.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000
962.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000
1898.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000
230.00	250	176	250	217.000000000	0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000
20.00	50	0	50	35.101920000	0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000
80.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000
100.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000
420.00	500	251	500	354.711540000	0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000
158.00	175	121	175	150.479170000	0.502500000	0.367000000	1249.795948400	3.920185384	4899.431810100	0.605300744	0.427684380	7.200925017	0.506455132	4.250000000
1094.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000
962.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000
1898.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000
230.00	250	176	250	217.000000000	0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000
20.00	50	0	50	35.101920000	0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000
80.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000
100.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000
420.00	500	251	500	354.711540000	0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000
158.00	175	121	175	150.479170000	0.502500000	0.367000000	1249.795948400	3.920185384	4899.431810100	0.605300744	0.427684380	7.200925017	0.506455132	4.250000000
1094.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000
962.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000
1898.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000
230.00	250	176	250	217.000000000	0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000
20.00	50	0	50	35.101920000	0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000
80.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000
100.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000
420.00	500	251	500	354.711540000	0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000
180.00	250	176	250	212.472220000	0.502500000	0.367000000	1286.375127100	5.535187969	7120.328126800	0.344390767	0.182534978	5.701322246	0.288151755	4.250000000
1211.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000
1165.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000
2203.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000
230.00	250	176	250	217.000000000	0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000
20.00	50	0	50	35.101920000	0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000
80.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000

SOXGBHP	PM10GBHP	PM25GBHP	CO2GBHP	CH4GBHP	N2OGBHP	TOGLBMG	PMLBMG	NOXLBMG	ROGLBMG	COLBMG	SOXLBMG	PM10LBMG	PM25LBMG
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561
0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855
0.004994136	0.427684380	0.393469630	529.325410480	0.000066290	0.000029716	25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839	16.731852172
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561
0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855
0.004994136	0.427684380	0.393469630	529.325410480	0.000066290	0.000029716	25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839	16.731852172
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561
0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855
0.004994136	0.427684380	0.393469630	529.325410480	0.000066290	0.000029716	25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839	16.731852172
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561
0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855
0.004994136	0.182534978	0.167932179	529.325410480	0.000066290	0.000029716	14.644828896	7.762094019	242.442297390	12.253328337	359.654638780	0.212370000	7.762094019	7.141126498
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561
0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266

CO2LBMG	CH4LBMG	N2OLBMG	TOGLBD	PMLBD	NOXLBD	ROGLBD	COLBD	SOXLBD	PM10LBD	PM25LBD	CO2LBD	CH4LBD	N2OLBD
22508.966000000	1.278659612	0.573192240	13.928758921	7.368118982	251.481015080	11.654192589	196.594262570	0.231016114	7.368118982	6.778669463	24485.256172000	0.003066416	0.001374600
22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728
22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864
22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398
22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450
22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842
22508.966000000	1.278659612	0.573192240	2.330848227	1.646896010	27.728800082	1.950220712	16.365591931	0.019231057	1.646896010	1.515144329	2038.287921600	0.000255265	0.000114429
22508.966000000	1.278659612	0.573192240	8.028483804	4.246955830	144.952703110	6.717432399	113.316187170	0.133156812	4.246955830	3.907199364	14113.208773000	0.001767470	0.000792314
22508.966000000	1.278659612	0.573192240	7.059781919	3.734526059	127.462980250	5.906919532	99.643667328	0.117090359	3.734526059	3.435763975	12410.335320000	0.001554211	0.000696715

CO2ELBD	TOGLB	PMLB	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB	CO2LB	CH4LB	N2OLB
24485.746693000	390.005249790	206.307331490	7041.468422400	326.317392500	5504.639351900	6.468451189	206.307331490	189.802744970	685587.172810000	0.085859635	0.038488802
618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456
531.959686060	40.210802264	17.324799987	179.781196510	33.644378254	138.307142860	0.180680026	17.324799987	15.938815988	19150.165057000	0.002398274	0.001075089
701.804330920	30.007236832	26.385783017	310.324843200	25.107055058	202.850476190	0.238367733	26.385783017	24.274920375	25264.449782000	0.003163998	0.001418344
1914.011811600	81.837918634	71.961226409	846.340481460	68.473786521	553.228571430	0.650093818	71.961226409	66.204328296	68903.044861000	0.008629085	0.003868211
3684.472737300	71.094826802	40.699480636	1077.988156200	59.485041585	1035.382638900	1.216668638	40.699480636	37.443522185	128953.962430000	0.016149573	0.007239464
2038.328755200	81.579687961	57.641360343	970.508002870	68.257724917	572.795717590	0.673086992	57.641360343	53.030051516	71340.077255000	0.008934288	0.004005026
14113.491508000	280.996933130	148.643454060	5073.344608800	235.110133950	3966.066550900	4.660488410	148.643454060	136.751977740	493962.307070000	0.061861460	0.027730999
12410.583940000	247.092367160	130.708412080	4461.204308700	206.742183600	3487.528356500	4.098162569	130.708412080	120.251739110	434361.736200000	0.054397372	0.024385029
24485.746693000	487.506562240	257.884164370	8801.835527900	407.896740620	6880.799189800	8.085563987	257.884164370	237.253431220	856983.966020000	0.107324544	0.048111003
618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456
531.959686060	49.146536100	21.174755540	219.732573510	41.120906755	169.042063490	0.220831142	21.174755540	19.480775097	23405.757292000	0.002931224	0.001313997
701.804330920	36.675511684	32.249290354	379.285919470	30.686400626	247.928359790	0.291338340	32.249290354	29.669347125	30878.771956000	0.003867109	0.001733531
1914.011811600	100.024122770	87.952610055	1034.416144000	83.690183525	676.168253970	0.794559110	87.952610055	80.916401251	84214.832608000	0.010546660	0.004727813
3684.472737300	87.345072928	50.002219067	1324.385449000	73.081622519	1272.041527800	1.494764326	50.002219067	46.002041542	158429.153840000	0.019840904	0.008894198
2038.328755200	100.226473780	70.816528421	1192.338403500	83.859490612	703.720453040	0.826935447	70.816528421	65.151206148	87646.380628000	0.010976411	0.004920460
14113.491508000	345.224803560	182.619100710	6232.966233700	288.849593140	4872.596048300	5.725742903	182.619100710	168.009572650	606867.977260000	0.076001223	0.034069514
12410.583940000	303.570622510	160.584620550	5480.908150700	253.997539860	4284.677695100	5.034885441	160.584620550	147.737850910	533644.418760000	0.066831057	0.029958750
24485.746693000	598.936633610	316.829116220	10813.683649000	501.130281340	8453.553290300	9.933692898	316.829116220	291.482786920	1052866.015400000	0.131855869	0.059107803
618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456
531.959686060	60.316203396	25.987199981	269.671794760	50.466567381	207.460714290	0.271020038	25.987199981	23.908223982	28725.247585000	0.003597412	0.001612633
701.804330920	45.010855249	39.578674525	465.487264810	37.660582586	304.275714290	0.357551600	39.578674525	36.412380563	37896.674674000	0.004745997	0.002127516
1914.011811600	122.756877950	107.941839610	1269.510722200	102.710679780	829.842857140	0.975140726	107.941839610	99.306492444	103354.567290000	0.012943628	0.005802316
3684.472737300	107.657880590	61.630642106	1632.382065100	90.077348686	1567.865138900	1.842383937	61.630642106	56.700190738	195273.143110000	0.024455068	0.010962617
2038.328755200	123.534956050	87.285488519	1469.626404300	103.361697730	867.376372350	1.019246016	87.285488519	80.302649438	108029.259840000	0.013529064	0.006064753
14113.491508000	425.509641600	225.088659010	7682.493264800	356.023917130	6005.757920000	7.057311020	225.088659010	207.081566290	748000.064990000	0.093675925	0.041992656
12410.583940000	374.168441700	197.929881140	6755.537953100	313.066735170	5281.114368400	6.205789032	197.929881140	182.095490650	657747.771960000	0.082373163	0.036925901
24485.746693000	738.224222820	390.510306040	13328.493799000	617.672207230	10419.495916000	12.243854037	390.510306040	359.269481560	1297718.577100000	0.162520024	0.072853804
618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456
531.959686060	73.719804150	31.762133310	329.598860260	61.681360132	253.563095240	0.331246714	31.762133310	29.221162645	35108.635937000	0.004396836	0.001970996
701.804330920	55.013267526	48.373935530	568.928879210	46.029600939	371.892539680	0.437007511	48.373935530	44.504020688	46318.157934000	0.005800663	0.002600297
1914.011811600	150.036184160	131.928915080	1551.624216000	125.535275290	1014.252381000	1.191838666	131.928915080	121.374601880	126322.248910000	0.015819990	0.007091720
3684.472737300	132.033249780	75.584749753	2001.978004300	110.472220090	1922.853472200	2.259527470	75.584749753	69.537969773	239485.930230000	0.029992064	0.013444719
2038.328755200	151.505134780	107.048240640	1802.372005300	126.764346270	1063.763475500	1.250018699	107.048240640	98.484381386	132488.714900000	0.016592249	0.007437905
14113.491508000	521.851447250	276.052128980	9421.925702100	436.633105910	7365.552166000	8.655192761	276.052128980	253.967958660	917358.570280000	0.114885569	0.051500427
12410.583940000	458.885824730	242.744193850	8285.093716100	383.949769550	6476.838376300	7.610873342	242.744193850	223.324658350	806671.795800000	0.101023690	0.045286482
24485.746693000	905.369329870	478.927733820	16346.265980000	757.522518300	12778.627067000	15.016047404	478.927733820	440.613515120	1591541.651200000	0.199317011	0.089349005
618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456
531.959686060	91.591271823	39.462044415	409.501614260	76.634417134	315.032936510	0.411548947	39.462044415	36.305080862	43619.820407000	0.005462736	0.002448813
701.804330920	68.349817229	60.100950204	706.851031740	57.188292076	462.048306880	0.542948725	60.100950204	55.292874188	57546.802282000	0.007206884	0.003230672
1914.011811600	186.408592440	163.911682380	1927.775541100	155.968069300	1260.131746000	1.480769251	163.911682380	150.798747790	156945.824410000	0.019655139	0.008810924
3684.472737300	164.533742030	94.190226615	2494.772590000	137.665381950	2396.171250000	2.815718847	94.190226615	86.655008486	298436.313050000	0.037374726	0.016754188
2322.146683200	122.375569180	64.861848530	2025.903774400	102.391638730	1510.191964300	1.774612719	64.861848530	59.672900648	188090.113270000	0.023555500	0.010559362
15622.886852000	719.855580260	380.793550610	12996.851555000	602.303164000	10160.235937000	11.939200015	380.793550610	350.330066560	1265428.484300000	0.158476168	0.071041041
15029.449366000	692.511767960	366.329055700	12503.164377000	579.424596250	9774.297991100	11.485687876	366.329055700	337.022731250	1217361.010900000	0.152456430	0.068342537
28420.495239000	1309.530836800	692.723527650	23643.322853000	1095.684451100	18483.071652000	21.719287889	692.723527650	637.305645440	2302013.997400000	0.288293145	0.129234858
618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456
531.959686060	112.813639680	48.605688853	504.386134640	94.391172324	388.028373020	0.506907850	48.605688853	44.717233745	53726.851965000	0.006728492	0.003016221
701.804330920	84.186970002	74.026780130	870.633587880	70.439237801	569.108280420	0.668753918	74.026780130	68.104637719	70880.817445000	0.008876772	0.003979243

CO2ELB	TOGTON	PMTON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	CO2TONNE	CH4TONNE	N2OTONNE	CO2ETONNE
685600.907390000	0.195002625	0.103153666	3.520734211	0.163158696	2.752319676	0.003234226	0.103153666	0.094901372	310.982341590	0.000038946	0.000017459	310.988571590
1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
19150.548698000	0.020105401	0.008662400	0.089890598	0.016822189	0.069153571	0.000090340	0.008662400	0.007969408	8.686514870	0.000001088	0.000000488	8.686688889
25264.955913000	0.015003618	0.013192892	0.155162422	0.012553528	0.101425238	0.000119184	0.013192892	0.012137460	11.459954421	0.000001435	0.000000643	11.460184002
68904.425217000	0.040918959	0.035980613	0.423170241	0.034236893	0.276614286	0.000325047	0.035980613	0.033102164	31.254421149	0.000003914	0.000001755	31.255047279
128956.545810000	0.035547413	0.020349740	0.538994078	0.029742521	0.517691319	0.000608334	0.020349740	0.018721761	58.493517359	0.000007325	0.000003284	58.494689178
71341.506433000	0.040789844	0.028820680	0.485254001	0.034128862	0.286397859	0.000336543	0.028820680	0.026515026	32.359859043	0.000004053	0.000001817	32.360507318
493972.202770000	0.140498467	0.074321727	2.536672304	0.117555067	1.983033275	0.002330244	0.074321727	0.068375989	224.061302490	0.000028060	0.000012579	224.065791180
434370.437900000	0.123546184	0.065354206	2.230602154	0.103371092	1.743764178	0.002049081	0.065354206	0.060125870	197.026483540	0.000024675	0.000011061	197.030430630
857001.134240000	0.243753281	0.128942082	4.400917764	0.203948370	3.440399595	0.004042782	0.128942082	0.118626716	388.727926990	0.000048682	0.000021823	388.735714490
1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
23406.226186000	0.024573268	0.010587378	0.109866287	0.020560453	0.084521032	0.000110416	0.010587378	0.009740388	10.616851507	0.000001330	0.000000596	10.617064198
30879.390560000	0.018337756	0.016124645	0.189642960	0.015343200	0.123964180	0.000145669	0.016124645	0.014834674	14.006610959	0.000001754	0.000000786	14.006891558
84216.519710000	0.050012061	0.043976305	0.517208072	0.041845092	0.338084127	0.000397280	0.043976305	0.040458201	38.199848071	0.000004784	0.000002145	38.200613340
158432.327700000	0.043672536	0.025001110	0.662192725	0.036540811	0.636020764	0.000747382	0.025001110	0.023001021	71.863464184	0.000009000	0.000004034	71.864903847
87648.136475000	0.050113237	0.035408264	0.596169202	0.041929745	0.351860227	0.000413468	0.035408264	0.032575603	39.756398253	0.000004979	0.000002232	39.757194705
606880.134830000	0.172612402	0.091309550	3.116483117	0.144424797	2.436298024	0.002862871	0.091309550	0.084004786	275.275314480	0.000034474	0.000015454	275.280829160
533655.109420000	0.151785311	0.080292310	2.740454075	0.126998770	2.142338848	0.002517443	0.080292310	0.073868925	242.061108350	0.000030315	0.000013589	242.065957640
1052887.107800000	0.299468317	0.158414558	5.406841824	0.250565141	4.226776645	0.004966846	0.158414558	0.145741393	477.580024580	0.000059810	0.000026811	477.589592090
1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
28725.823047000	0.030158102	0.012993600	0.134835897	0.025233284	0.103730357	0.000135510	0.012993600	0.011954112	13.029772305	0.000001632	0.000000731	13.030033334
37897.433870000	0.022505428	0.019789337	0.232743632	0.018830291	0.152137857	0.000178776	0.019789337	0.018206190	17.189931632	0.000002153	0.000000965	17.190276003
103356.637830000	0.061378439	0.053970920	0.634755361	0.051355340	0.414921429	0.000487570	0.053970920	0.049653246	46.881631724	0.000005871	0.000002632	46.882570918
195277.055080000	0.053828940	0.030815321	0.816191033	0.045038674	0.783932569	0.000921192	0.030815321	0.028350095	88.575897715	0.000011093	0.000004973	88.577672183
108031.424030000	0.061767478	0.043642744	0.734813202	0.051680849	0.433688186	0.000509623	0.043642744	0.040151325	49.002072265	0.000006137	0.000002751	49.003053939
748015.049910000	0.212754821	0.112544330	3.841246632	0.178011959	3.002878960	0.003528656	0.112544330	0.103540783	339.292829480	0.000042491	0.000019048	339.299626640
657760.948830000	0.187084221	0.098964941	3.377768977	0.156533368	2.640557184	0.003102895	0.098964941	0.091047745	298.354389360	0.000037364	0.000016750	298.360366390
1297744.574700000	0.369112111	0.195255153	6.664246900	0.308836104	5.209747958	0.006121927	0.195255153	0.179634741	588.645146580	0.000073719	0.000033046	588.656939090
1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
35109.339280000	0.036859902	0.015881067	0.164799430	0.030840680	0.126781548	0.000165623	0.015881067	0.014610581	15.925277261	0.000001994	0.000000894	15.925596297
46319.085841000	0.027506634	0.024186968	0.284464440	0.023014800	0.185946270	0.000218504	0.024186968	0.022252010	21.009916439	0.000002631	0.000001179	21.010337337
126324.779570000	0.075018092	0.065964458	0.775812108	0.062767638	0.507126190	0.000595919	0.065964458	0.060687301	57.299772107	0.000007176	0.000003217	57.300920011
239490.727930000	0.066016625	0.037792375	1.000989002	0.055236110	0.961426736	0.001129764	0.037792375	0.034768985	108.630817950	0.000013604	0.000006099	108.632994190
132491.369090000	0.075752567	0.053524120	0.901186003	0.063382173	0.531881738	0.000625009	0.053524120	0.049242191	60.096881080	0.000007526	0.000003374	60.098085019
917376.948010000	0.260925724	0.138026064	4.710962851	0.218316553	3.682776083	0.004327596	0.138026064	0.126983979	416.113847480	0.000052112	0.000023361	416.122183620
806687.956110000	0.229442912	0.121372097	4.142546858	0.191974885	3.238419188	0.003805437	0.121372097	0.111662329	365.906326580	0.000045824	0.000020542	365.913656890
1591573.535000000	0.452684665	0.239463867	8.173132990	0.378761259	6.389313533	0.007508024	0.239463867	0.220306758	721.923292970	0.000090410	0.000040529	721.937755490
1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
43620.694257000	0.045795636	0.019731022	0.204750807	0.038317209	0.157516468	0.000205774	0.019731022	0.018152540	19.785950537	0.000002478	0.000001111	19.786346915
57547.955135000	0.034174909	0.030050475	0.353425516	0.028594146	0.231024153	0.000271474	0.030050475	0.027646437	26.103229515	0.000003269	0.000001465	26.103752449
156948.968550000	0.093204296	0.081955841	0.963887771	0.077984035	0.630065873	0.000740385	0.081955841	0.075399374	71.190625951	0.000008916	0.000003997	71.192052135
298442.291720000	0.082266871	0.047095113	1.247386295	0.068832691	1.198085625	0.001407859	0.047095113	0.043327504	135.370711600	0.000016953	0.000007600	135.373423530
188093.881340000	0.061187785	0.032430924	1.012951887	0.051195819	0.755095982	0.000887306	0.032430924	0.029836450	85.317675379	0.000010685	0.000004790	85.319384575
1265453.835000000	0.359927790	0.190396775	6.498425777	0.301151582	5.080117969	0.005969600	0.190396775	0.175165033	573.998360470	0.000071885	0.000032224	574.009859560
1217385.398700000	0.346255884	0.183164528	6.251582189	0.289712298	4.887148996	0.005742844	0.183164528	0.168511366	552.194954540	0.000069154	0.000031000	552.206016830
2302060.114400000	0.654765418	0.346361764	11.821661426	0.547842226	9.241535826	0.010859644	0.346361764	0.318652823	1044.193549200	0.000130770	0.000058621	1044.214467900
1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
53727.928292000	0.056406820	0.024302844	0.252193067	0.047195586	0.194014187	0.000253454	0.024302844	0.022358617	24.370500051	0.000003052	0.000001368	24.370988273
70882.237423000	0.042093485	0.037013390	0.435316794	0.035219619	0.284554140	0.000334377	0.037013390	0.034052319	32.151538793	0.000004027	0.000001805	32.152182895

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR
IPK_4AB0FNVZ	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	101.00	7	04/23/2015	2015	2015
IPK_4AB0FNW0	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	100.00	7	04/22/2015	2015	2015
IPK_4AB0FNW0	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	100.00	7	04/22/2015	2015	2015
IPK_4AB0FNW0	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	100.00	7	04/22/2015	2015	2015
IPK_4AB0FNW1	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	100.00	7	04/22/2015	2015	2015
IPK_4AB0FNW1	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	100.00	7	04/22/2015	2015	2015
IPK_4AB0FNW8	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015
IPK_4AB0FNW8	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	125.00	7	05/17/2015	2015	2015
IPK_4AB0FNW8	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	125.00	7	05/17/2015	2015	2015
IPK_4AB0FNW9	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	125.00	7	05/17/2015	2015	2015
IPK_4AB0FNW9	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	124.00	7	05/16/2015	2015	2015
IPK_4AB0FNW9	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	124.00	7	05/16/2015	2015	2015
IPK_4AB0FNWA	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	124.00	7	05/16/2015	2015	2015
IPK_4AB0FNWA	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	124.00	7	05/16/2015	2015	2015
IPK_4AB0FNWA	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	124.00	7	05/16/2015	2015	2015
IPK_4AB0FNWH	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015
IPK_4AB0FNWH	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	154.00	7	06/15/2015	2015	2015
IPK_4AB0FNWH	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	154.00	7	06/15/2015	2015	2015
IPK_4AB0FNWI	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	154.00	7	06/15/2015	2015	2015
IPK_4AB0FNWI	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	153.00	7	06/14/2015	2015	2015
IPK_4AB0FNWI	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	153.00	7	06/14/2015	2015	2015
IPK_4AB0FNWJ	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	153.00	7	06/14/2015	2015	2015
IPK_4AB0FNWJ	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	153.00	7	06/14/2015	2015	2015
IPK_4AB0FNWJ	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	153.00	7	06/14/2015	2015	2015
IPK_4AB0FNWQ	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015
IPK_4AB0FNWQ	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	191.00	7	07/22/2015	2015	2015
IPK_4AB0FNWR	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	191.00	7	07/22/2015	2015	2015
IPK_4AB0FNWR	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	191.00	7	07/22/2015	2015	2015
IPK_4AB0FNWR	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	190.00	7	07/21/2015	2015	2015
IPK_4AB0FNWR	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	190.00	7	07/21/2015	2015	2015
IPK_4AB0FNWS	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	190.00	7	07/21/2015	2015	2015
IPK_4AB0FNWS	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	190.00	7	07/21/2015	2015	2015
IPK_4AB0FNWS	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	190.00	7	07/21/2015	2015	2015
IPK_4AB0FNWY	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015
IPK_4AB0FNWZ	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	235.00	7	09/04/2015	2015	2015
IPK_4AB0FNWZ	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	235.00	7	09/04/2015	2015	2015
IPK_4AB0FNX0	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	235.00	7	09/04/2015	2015	2015
IPK_4AB0FNX0	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	234.00	7	09/03/2015	2015	2015
IPK_4AB0FNX0	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	234.00	7	09/03/2015	2015	2015
IPK_4AB0FNX1	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	234.00	7	09/03/2015	2015	2015
IPK_4AB0FNX1	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	234.00	7	09/03/2015	2015	2015
IPK_4AB0FNX1	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	234.00	7	09/03/2015	2015	2015
IPK_4AB0FNX7	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015
IPK_4AB0FNX7	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	291.00	7	10/30/2015	2015	2015
IPK_4AB0FNX7	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	291.00	7	10/30/2015	2015	2015
IPK_4AB0FNX7	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	291.00	7	10/30/2015	2015	2015
IPK_4AB0FNX8	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	290.00	7	10/29/2015	2015	2015
IPK_4AB0FNX8	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	290.00	7	10/29/2015	2015	2015
IPK_4AB0FNX9	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	290.00	7	10/29/2015	2015	2015

STARTMO	STARTDAY	ENDYR	ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT
1	13	2015	4	23	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00
1	13	2015	4	22	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	4	22	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	4	22	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	4	22	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	4	22	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00
1	13	2015	5	17	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00
1	13	2015	5	17	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	5	17	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00
1	13	2015	5	16	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	5	16	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	5	16	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	5	16	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	5	16	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00
1	13	2015	6	15	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00
1	13	2015	6	15	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	6	15	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00
1	13	2015	6	14	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	6	14	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	6	14	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	6	14	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	6	14	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00
1	13	2015	7	22	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00
1	13	2015	7	22	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	7	22	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00
1	13	2015	7	21	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	7	21	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	7	21	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	7	21	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	7	21	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00
1	13	2015	9	4	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00
1	13	2015	9	4	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	9	4	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00
1	13	2015	9	3	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	9	3	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	9	3	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	9	3	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	9	3	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00
1	13	2015	10	30	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00
1	13	2015	10	30	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	10	30	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00
1	13	2015	10	29	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2015	10	29	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	10	29	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00

ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP	CATLOAD	CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	TOGGBHP	PMGBHP	NOXGBHP	ROGGBHP	COGBHP
100.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000
420.00	500	251	500	354.711540000	0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000
180.00	250	176	250	212.472220000	0.502500000	0.367000000	1286.375127100	5.535187969	7120.328126800	0.344390767	0.182534978	5.701322246	0.288151755	4.250000000
1211.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000
1165.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000
2203.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000
230.00	250	176	250	217.000000000	0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000
20.00	50	0	50	35.101920000	0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000
80.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000

SOXGBHP	PM10GBHP	PM25GBHP	CO2GBHP	CH4GBHP	N2OGBHP	TOGLBMG	PMLBMG	NOXLBMG	ROGLBMG	COLBMG	SOXLBMG	PM10LBMG	PM25LBMG
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855
0.004994136	0.182534978	0.167932179	529.325410480	0.000066290	0.000029716	14.644828896	7.762094019	242.442297390	12.253328337	359.654638780	0.212370000	7.762094019	7.141126498
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561
0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855
0.004994136	0.182534978	0.167932179	529.325410480	0.000066290	0.000029716	14.644828896	7.762094019	242.442297390	12.253328337	359.654638780	0.212370000	7.762094019	7.141126498
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561
0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855
0.004994136	0.182534978	0.167932179	529.325410480	0.000066290	0.000029716	14.644828896	7.762094019	242.442297390	12.253328337	359.654638780	0.212370000	7.762094019	7.141126498
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561
0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855
0.004994136	0.182534978	0.167932179	529.325410480	0.000066290	0.000029716	14.644828896	7.762094019	242.442297390	12.253328337	359.654638780	0.212370000	7.762094019	7.141126498
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561
0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855
0.004994136	0.182534978	0.167932179	529.325410480	0.000066290	0.000029716	14.644828896	7.762094019	242.442297390	12.253328337	359.654638780	0.212370000	7.762094019	7.141126498
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478

CO2LBMG	CH4LBMG	N2OLBMG	TOGLBD	PMLBD	NOXLBD	ROGLBD	COLBD	SOXLBD	PM10LBD	PM25LBD	CO2LBD	CH4LBD	N2OLBD
22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450
22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842
22508.966000000	1.278659612	0.573192240	1.510809496	0.800763562	25.011157709	1.264094305	18.644345238	0.021908799	0.800763562	0.736702477	2322.100163800	0.000290809	0.000130362
22508.966000000	1.278659612	0.573192240	8.887105929	4.701154946	160.454957460	7.435841531	125.435011570	0.147397531	4.701154946	4.325062550	15622.573880000	0.001956496	0.000877050
22508.966000000	1.278659612	0.573192240	8.549527999	4.522580935	154.360054040	7.153390077	120.670345570	0.141798616	4.522580935	4.160774460	15029.148283000	0.001882178	0.000843735
22508.966000000	1.278659612	0.573192240	16.167047367	8.552142317	291.892874730	13.526968532	228.186069780	0.268139357	8.552142317	7.867970931	28419.925894000	0.003559175	0.001595492
22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728
22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864
22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398
22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450
22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842
22508.966000000	1.278659612	0.573192240	1.510809496	0.800763562	25.011157709	1.264094305	18.644345238	0.021908799	0.800763562	0.736702477	2322.100163800	0.000290809	0.000130362
22508.966000000	1.278659612	0.573192240	8.887105929	4.701154946	160.454957460	7.435841531	125.435011570	0.147397531	4.701154946	4.325062550	15622.573880000	0.001956496	0.000877050
22508.966000000	1.278659612	0.573192240	8.549527999	4.522580935	154.360054040	7.153390077	120.670345570	0.141798616	4.522580935	4.160774460	15029.148283000	0.001882178	0.000843735
22508.966000000	1.278659612	0.573192240	16.688091563	8.827767421	301.300225660	13.962926211	235.540228170	0.276781161	8.827767421	8.121546027	29335.865403000	0.003673882	0.001646913
22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728
22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864
22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398
22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450
22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842
22508.966000000	1.278659612	0.573192240	1.510809496	0.800763562	25.011157709	1.264094305	18.644345238	0.021908799	0.800763562	0.736702477	2322.100163800	0.000290809	0.000130362
22508.966000000	1.278659612	0.573192240	8.887105929	4.701154946	160.454957460	7.435841531	125.435011570	0.147397531	4.701154946	4.325062550	15622.573880000	0.001956496	0.000877050
22508.966000000	1.278659612	0.573192240	8.549527999	4.522580935	154.360054040	7.153390077	120.670345570	0.141798616	4.522580935	4.160774460	15029.148283000	0.001882178	0.000843735
22508.966000000	1.278659612	0.573192240	16.167047367	8.552142317	291.892874730	13.526968532	228.186069780	0.268139357	8.552142317	7.867970931	28419.925894000	0.003559175	0.001595492
22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728
22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864
22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398
22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450
22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842
22508.966000000	1.278659612	0.573192240	1.510809496	0.800763562	25.011157709	1.264094305	18.644345238	0.021908799	0.800763562	0.736702477	2322.100163800	0.000290809	0.000130362
22508.966000000	1.278659612	0.573192240	9.987903526	5.283461504	180.329642530	8.356878880	140.971965940	0.165654864	5.283461504	4.860784584	17557.657350000	0.002198836	0.000985685
22508.966000000	1.278659612	0.573192240	9.848469163	5.209702673	177.812182430	8.240214149	139.003951720	0.163342268	5.209702673	4.792926459	17312.546777000	0.002168140	0.000971925
22508.966000000	1.278659612	0.573192240	16.688091563	8.827767421	301.300225660	13.962926211	235.540228170	0.276781161	8.827767421	8.121546027	29335.865403000	0.003673882	0.001646913
22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728
22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864
22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398
22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450
22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842
22508.966000000	1.278659612	0.573192240	1.510809496	0.800763562	25.011157709	1.264094305	18.644345238	0.021908799	0.800763562	0.736702477	2322.100163800	0.000290809	0.000130362
22508.966000000	1.278659612	0.573192240	9.987903526	5.283461504	180.329642530	8.356878880	140.971965940	0.165654864	5.283461504	4.860784584	17557.657350000	0.002198836	0.000985685

CO2ELBD	TOGLB	PMLB	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB	CO2LB	CH4LB	N2OLB
1914.011811600	229.600827280	201.891218540	2374.455239700	192.107012180	1552.113492100	1.823874322	201.891218540	185.739921050	193311.320300000	0.024209379	0.010852480
3684.472737300	203.128076580	116.284230390	3079.966160500	169.957261670	2958.236111100	3.476196108	116.284230390	106.981491960	368439.892660000	0.046141638	0.020684182
2322.146683200	151.080949600	80.076356210	2501.115770900	126.409430530	1864.434523800	2.190879900	80.076356210	73.670247713	232210.016380000	0.029080864	0.013036249
15622.886852000	888.710592910	470.115494570	16045.495746000	743.584153090	12543.501157000	14.739753105	470.115494570	432.506255010	1562257.388000000	0.195649591	0.087704989
15029.449366000	854.952799950	452.258093460	15436.005404000	715.339007720	12067.034557000	14.179861575	452.258093460	416.077445980	1502914.828300000	0.188217814	0.084373503
28420.495239000	1616.704736700	855.214231670	29189.287473000	1352.696853200	22818.606978000	26.813935665	855.214231670	786.797093130	2841992.589400000	0.355917464	0.159549208
618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456
531.959686060	139.620841190	60.155555511	624.240265650	116.820757830	480.233134920	0.627361200	60.155555511	55.343111070	66493.628669000	0.008327342	0.003732946
701.804330920	104.191794560	91.617302141	1077.516816700	87.177274506	704.341931220	0.827665740	91.617302141	84.287917970	87723.783967000	0.010986104	0.004924805
1914.011811600	284.159439700	249.865369480	2938.682227300	237.756203200	1920.932539700	2.257270200	249.865369480	229.876139920	239246.683550000	0.029962102	0.013431287
3684.472737300	251.878814960	144.192445680	3819.158039000	210.747004470	3668.212777800	4.310483174	144.192445680	132.657050030	456865.466900000	0.057215631	0.025648386
2322.146683200	187.340377510	99.294681700	3101.383555900	156.747693860	2311.898809500	2.716691076	99.294681700	91.351107164	287940.420310000	0.036060271	0.016164949
15622.886852000	1102.001135200	582.943213270	19896.414726000	922.044349830	15553.941435000	18.277293850	582.943213270	536.307756210	1937199.161100000	0.242605493	0.108754186
15029.449366000	1060.141471900	560.800035890	19140.646701000	887.020369570	14963.122851000	17.583028353	560.800035890	515.936033020	1863614.387000000	0.233390090	0.104623144
28420.495239000	2004.713873500	1060.465647300	36194.716466000	1677.344098000	28295.072652000	33.249280225	1060.465647300	975.628395490	3524070.810800000	0.441337655	0.197841018
618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456
531.959686060	172.012876350	74.111644390	769.064007280	143.923173640	591.647222220	0.772908998	74.111644390	68.182712839	81920.150521000	0.010259285	0.004598990
701.804330920	128.364290890	112.872516240	1327.500718100	107.402402190	867.749259260	1.019684192	112.872516240	103.842714940	108075.701850000	0.013534880	0.006067360
1914.011811600	350.084429710	307.834135190	3620.456504000	292.915642340	2366.588888900	2.780956886	307.834135190	283.207404380	294751.914130000	0.036913310	0.016547346
3684.472737300	310.785957160	177.914872490	4712.348225600	260.034610360	4526.101250000	5.318580045	177.914872490	163.681682700	563713.035770000	0.070596706	0.031646799
2322.146683200	231.153852890	122.516825000	3826.707129400	193.406428720	2852.584821400	3.352046247	122.516825000	112.715479000	355281.325070000	0.044493722	0.019945462
15622.886852000	1359.727207200	719.276706700	24549.608492000	1137.683754200	19191.556771000	22.551822251	719.276706700	661.734570160	2390253.803600000	0.299343874	0.134188633
15029.449366000	1308.077783900	691.954882990	23617.088269000	1094.468681800	18462.562872000	21.695188210	691.954882990	636.598492350	2299459.687200000	0.287973256	0.129091460
28420.495239000	2473.558247200	1308.477774400	44659.609833000	2069.626185400	34912.468676000	41.025321567	1308.477774400	1203.799552500	4348248.661800000	0.544553719	0.244110288
618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456
531.959686060	213.340645340	91.917688821	953.839125910	178.502117960	733.796230160	0.958607914	91.917688821	84.564273716	101602.264610000	0.012724178	0.005703942
701.804330920	159.205062080	139.991237670	1646.445695900	133.206875440	1076.234470900	1.264673251	139.991237670	128.791938660	134041.941900000	0.016786767	0.007525103
1914.011811600	434.195623860	381.794284560	4490.306443300	363.291478490	2935.184920600	3.449108866	381.794284560	351.250741790	365568.932460000	0.045782092	0.020523007
3684.472737300	385.943345500	220.940037740	5851.935705000	322.918797180	5620.648611100	6.604772605	220.940037740	203.264834720	700035.796050000	0.087669111	0.039299946
2322.146683200	287.053804250	152.145076800	4752.119964600	240.177918010	3542.425595200	4.162671810	152.145076800	139.973470650	441199.031130000	0.055253642	0.024768874
15622.886852000	1688.550126500	893.219439690	30486.441918000	1412.809890900	23832.652199000	28.005530900	893.219439690	821.761884520	2968289.037200000	0.371734222	0.166639479
15029.449366000	1624.410319900	859.290377570	29328.410268000	1359.144114700	22927.365658000	26.941736993	859.290377570	790.547147370	2855538.173700000	0.357613847	0.160309656
28420.495239000	3071.738999800	1624.907040200	55459.646198000	2570.124021100	43355.353257000	50.946477764	1624.907040200	1494.914477000	5399785.919800000	0.676243181	0.303143495
618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456
531.959686060	262.487181440	113.092444360	1173.571699400	219.623024710	902.838293650	1.179439056	113.092444360	104.045048810	125008.021900000	0.015655403	0.007017939
701.804330920	195.880573770	172.240528020	2025.731615400	163.893276070	1324.162830700	1.556011591	172.240528020	158.461285780	164920.713860000	0.020653876	0.009258634
1914.011811600	534.219746640	469.746894610	5524.722587300	446.981662010	3611.353174600	4.243667976	469.746894610	432.167143040	449783.765070000	0.056328752	0.025250820
3684.472737300	475.319699190	272.105099110	7207.120815600	397.699992310	6922.272500000	8.134298893	272.105099110	250.336691180	862149.348830000	0.107971432	0.048400987
2322.146683200	353.529422070	187.378673530	5852.610903800	295.798067450	4362.776785700	5.126658966	187.378673530	172.388379650	543371.438340000	0.068049222	0.030504824
17558.009088000	2337.169425000	1236.329991900	42197.136353000	1955.509657900	32987.440030000	38.763238071	1236.329991900	1137.423592500	4108491.819900000	0.514527727	0.230650360
17312.893605000	2304.541784200	1219.070425500	41608.050687000	1928.210110900	32526.924702000	38.222090735	1219.070425500	1121.544791500	4051135.945800000	0.507344754	0.227430407
29336.453098000	3905.013425700	2065.697576500	70504.252804000	3267.324733300	55116.413393000	64.766791604	2065.697576500	1900.441770400	6864592.504300000	0.859688502	0.385377604
618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456
531.959686060	325.037318300	140.042133230	1453.231338400	271.958724220	1117.982738100	1.460496874	140.042133230	128.838762570	154797.167540000	0.019386052	0.008690299
701.804330920	242.558497730	213.285079380	2508.459149200	202.948695050	1639.708015900	1.926805843	213.285079380	196.222273030	204220.969070000	0.025575651	0.011464947
1914.011811600	661.523175620	581.686580140	6841.252225200	553.496441040	4471.930952400	5.254925026	581.686580140	535.151653730	556966.279290000	0.069751774	0.031268037
3684.472737300	589.071422070	337.224268130	8931.901865500	492.876058850	8578.884722200	10.080968713	337.224268130	310.246326680	1068475.688700000	0.133810749	0.059984129
2322.146683200	438.134753850	232.221433010	7253.235735500	366.587348550	5406.860119000	6.353551710	232.221433010	213.643718370	673409.047510000	0.084334506	0.037805123
17558.009088000	2896.492022400	1532.203836100	52295.596335000	2423.494875200	40881.870122000	48.039910430	1532.203836100	1409.627529200	5091720.631400000	0.637662568	0.285848737

CO2ELB	TOGTON	PMTON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	CO2TONNE	CH4TONNE	N2OTONNE	CO2ETONNE
193315.192970000	0.114800414	0.100945609	1.187227620	0.096053506	0.776056746	0.000911937	0.100945609	0.092869961	87.686014890	0.000010981	0.000004923	87.687771532
368447.273730000	0.101564038	0.058142115	1.539983080	0.084978631	1.479118056	0.001738098	0.058142115	0.053490746	167.124335310	0.000020930	0.000009382	167.127683360
232214.668320000	0.075540475	0.040038178	1.250557885	0.063204715	0.932217262	0.001095440	0.040038178	0.036835124	105.330463430	0.000013191	0.000005913	105.332573550
1562288.685200000	0.444355296	0.235057747	8.022747873	0.371792077	6.271750579	0.007369877	0.235057747	0.216253128	708.639951200	0.000088747	0.000039783	708.654147600
1502944.936600000	0.427476400	0.226129047	7.718002702	0.357669504	6.033517278	0.007089931	0.226129047	0.208038723	681.722166100	0.000085376	0.000038272	681.735823250
2842049.523900000	0.808352368	0.427607116	14.594643736	0.676348427	11.409303489	0.013406968	0.427607116	0.393398547	1289.127838500	0.000161444	0.000072372	1289.153664000
1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
66494.960757000	0.069810421	0.030077778	0.312120133	0.058410379	0.240116567	0.000313681	0.030077778	0.027671556	30.161509964	0.000003777	0.000001693	30.162114199
87725.541365000	0.052095897	0.045808651	0.538758408	0.043588637	0.352170966	0.000413833	0.045808651	0.042143959	39.791508407	0.000004983	0.000002234	39.792305563
239251.476450000	0.142079720	0.124932685	1.469341114	0.118878102	0.960466270	0.001128635	0.124932685	0.114938070	108.522295660	0.000013591	0.000006092	108.524469720
456874.619430000	0.125939407	0.072096223	1.909579020	0.105373502	1.834106389	0.002155242	0.072096223	0.066328525	207.234175790	0.000025953	0.000011634	207.238327370
287946.188710000	0.093670189	0.049647341	1.550691778	0.078373847	1.155949405	0.001358346	0.049647341	0.045675554	130.609774650	0.000016357	0.000007332	130.612391200
1937237.969600000	0.551000568	0.291471607	9.948207363	0.461022175	7.776970718	0.009138647	0.291471607	0.268153878	878.713539480	0.000110046	0.000049331	878.731143020
1863651.721400000	0.530070736	0.280400018	9.570323351	0.443510185	7.481561425	0.008791514	0.280400018	0.257968017	845.335485960	0.000105866	0.000047457	845.352420830
3524141.409700000	1.002356937	0.530232824	18.097358233	0.838672049	14.147536326	0.016624640	0.530232824	0.487814198	1598.518519800	0.000200191	0.000089741	1598.550543400
1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
81921.791653000	0.086006438	0.037055822	0.384532004	0.071961587	0.295823611	0.000386454	0.037055822	0.034091356	37.158980276	0.000004654	0.000002086	37.159724694
108077.866960000	0.064182145	0.056436258	0.663750359	0.053701201	0.433874630	0.000509842	0.056436258	0.051921357	49.023138358	0.000006139	0.000002752	49.024120454
294757.818990000	0.175042215	0.153917068	1.810228252	0.146457821	1.183294444	0.001390478	0.153917068	0.141603702	133.699468250	0.000016744	0.000007506	133.702146690
563724.328810000	0.155392979	0.088957436	2.356174113	0.130017305	2.263050625	0.002659290	0.088957436	0.081840841	255.700233030	0.000032023	0.000014355	255.705355550
355288.442530000	0.115576926	0.061258413	1.913353565	0.096703214	1.426292411	0.001676023	0.061258413	0.056357740	161.155609050	0.000020182	0.000009047	161.158837530
2390301.688300000	0.679863604	0.359638353	12.274804246	0.568841877	9.595778385	0.011275911	0.359638353	0.330867285	1084.219125300	0.000135782	0.000060868	1084.240845800
2299505.753000000	0.654038892	0.345977441	11.808544134	0.547234341	9.231281436	0.010847594	0.345977441	0.318299246	1043.034914100	0.000130625	0.000058556	1043.055809600
4348335.771600000	1.236779124	0.654238887	22.329804917	1.034813093	17.456234338	0.020512661	0.654238887	0.601899776	1972.365593000	0.000247010	0.000110728	1972.405106000
1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
101604.300040000	0.106670323	0.045958844	0.476919563	0.089251059	0.366898115	0.000479304	0.045958844	0.042282137	46.086787226	0.000005772	0.000002587	46.087710497
134044.627210000	0.079602531	0.069995619	0.823222848	0.066603438	0.538117235	0.000632337	0.069995619	0.064395969	60.801424846	0.000007614	0.000003413	60.802642900
365576.256010000	0.217097812	0.190897142	2.245153222	0.181645739	1.467592460	0.001724554	0.190897142	0.175625371	165.822067760	0.000020767	0.000009309	165.825389730
700049.820090000	0.192971673	0.110470019	2.925967852	0.161459399	2.810324306	0.003302386	0.110470019	0.101632417	317.536237090	0.000039767	0.000017826	317.542598390
441207.869800000	0.143526902	0.076072538	2.376059982	0.120088959	1.771212798	0.002081336	0.076072538	0.069986735	200.127880520	0.000025063	0.000011235	200.131889740
2968348.501900000	0.844275063	0.446609720	15.243220959	0.706404945	11.916326100	0.014002765	0.446609720	0.410880942	1346.415907300	0.000168619	0.000075588	1346.442880400
2855595.379600000	0.812205160	0.429645189	14.664205134	0.679572057	11.463682829	0.013470868	0.429645189	0.395273574	1295.272115600	0.000162214	0.000072716	1295.298064200
5399894.095400000	1.535869500	0.812453520	27.729823099	1.285062011	21.677676629	0.025473239	0.812453520	0.747457238	2449.342893200	0.000306744	0.000137506	2449.391961700
1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
125010.526220000	0.131243591	0.056546222	0.586785850	0.109811512	0.451419147	0.000589720	0.056546222	0.052022524	56.703638733	0.000007101	0.000003183	56.704774695
164924.017770000	0.097940287	0.086120264	1.012865808	0.081946638	0.662081415	0.000778006	0.086120264	0.079230643	74.808035806	0.000009369	0.000004200	74.809534458
449792.775720000	0.267109873	0.234873447	2.762361294	0.223490831	1.805676587	0.002121834	0.234873447	0.216083572	204.021915830	0.000025551	0.000011454	204.026003070
862166.620530000	0.237659850	0.136052550	3.603560408	0.198849996	3.461136250	0.004067149	0.136052550	0.125168346	391.070944630	0.000048976	0.000021955	391.078779070
543382.323860000	0.176764711	0.093689337	2.926305452	0.147899034	2.181388393	0.002563329	0.093689337	0.086194190	246.473284430	0.000030867	0.000013837	246.478222100
4108574.126600000	1.168584712	0.618164996	21.098568176	0.977754829	16.493720015	0.019381619	0.618164996	0.568711796	1863.611889500	0.000233390	0.000104623	1863.649223800
4051217.103500000	1.152270892	0.609535213	20.804025344	0.964105055	16.263462351	0.019111045	0.609535213	0.560772396	1837.595265000	0.000230132	0.000103162	1837.632078100
6864730.024800000	1.952506713	1.032848788	35.252126402	1.633662367	27.558206696	0.032383396	1.032848788	0.950220885	3113.779160000	0.000389955	0.000174807	3113.841539300
1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
154800.268640000	0.162518659	0.070021067	0.726615669	0.135979362	0.558991369	0.000730248	0.070021067	0.064419381	70.215995197	0.000008794	0.000003942	70.217401856
204225.060300000	0.121279249	0.106642540	1.254229575	0.101474348	0.819854008	0.000963403	0.106642540	0.098111137	92.634631572	0.000011601	0.000005201	92.636487351
556977.437170000	0.330761588	0.290843290	3.420626113	0.276748221	2.235965476	0.002627463	0.290843290	0.267575827	252.639904290	0.000031639	0.000014183	252.644965500
1068497.093800000	0.294535711	0.168612134	4.465950933	0.246438029	4.289442361	0.005040484	0.168612134	0.155123163	484.660572400	0.000060697	0.000027209	484.670281760
673422.538120000	0.219067377	0.116110717	3.626617868	0.183293674	2.703430060	0.003176776	0.116110717	0.106821859	305.458343950	0.000038254	0.000017148	305.464463290
5091822.635500000	1.448246011	0.766101918	26.147798167	1.211747438	20.440935061	0.024019955	0.766101918	0.704813765	2309.604478400	0.000289244	0.000129661	2309.650747400

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR
IPK_4AB0FNX9	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	290.00	7	10/29/2015	2015	2015
IPK_4AB0FNX9	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	290.00	7	10/29/2015	2015	2015
IPK_4AB0FNXE	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015
IPK_4AB0FNXE	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	360.00	7	01/07/2016	2015	2015
IPK_4AB0FNXF	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	360.00	7	01/07/2016	2015	2015
IPK_4AB0FNXF	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	360.00	7	01/07/2016	2015	2015
IPK_4AB0FNXG	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	359.00	7	01/06/2016	2015	2015
IPK_4AB0FNXG	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	359.00	7	01/06/2016	2015	2015
IPK_4AB0FNXH	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	359.00	7	01/06/2016	2015	2015
IPK_4AB0FNXH	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	359.00	7	01/06/2016	2015	2015
IPK_4AB0FNXH	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	359.00	7	01/06/2016	2015	2015
IPK_4AB0FNXQ	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015
IPK_4AB0FNXR	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	445.00	7	04/01/2016	2015	2015
IPK_4AB0FNXR	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	445.00	7	04/01/2016	2015	2015
IPK_4AB0FNXR	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	445.00	7	04/01/2016	2015	2015
IPK_4AB0FNXS	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	444.00	7	03/31/2016	2015	2015
IPK_4AB0FNXS	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	444.00	7	03/31/2016	2015	2015
IPK_4AB0FNXT	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	444.00	7	03/31/2016	2015	2015
IPK_4AB0FNXT	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	444.00	7	03/31/2016	2015	2015
IPK_4AB0FNXU	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	444.00	7	03/31/2016	2015	2015
IPK_4AB0FNY1	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015
IPK_4AB0FNY2	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	550.00	7	07/15/2016	2015	2015
IPK_4AB0FNY2	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	550.00	7	07/15/2016	2015	2015
IPK_4AB0FNY3	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	550.00	7	07/15/2016	2015	2015
IPK_4AB0FNY3	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	549.00	7	07/14/2016	2015	2015
IPK_4AB0FNY4	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	549.00	7	07/14/2016	2015	2015
IPK_4AB0FNY4	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	549.00	7	07/14/2016	2015	2015
IPK_4AB0FNY5	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	549.00	7	07/14/2016	2015	2015
IPK_4AB0FNY5	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	549.00	7	07/14/2016	2015	2015

STARTMO	STARTDAY	ENDYR	ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT
1	13	2015	10	29	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	10	29	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00
1	13	2016	1	7	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00
1	13	2016	1	7	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2016	1	7	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00
1	13	2016	1	6	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2016	1	6	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2016	1	6	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2016	1	6	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2016	1	6	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00
1	13	2016	4	1	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00
1	13	2016	4	1	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2016	4	1	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00
1	13	2016	3	31	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2016	3	31	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2016	3	31	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2016	3	31	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2016	3	31	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2015	1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00
1	13	2016	7	15	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00
1	13	2016	7	15	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2016	7	15	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00
1	13	2016	7	14	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00
1	13	2016	7	14	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2016	7	14	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2016	7	14	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00
1	13	2016	7	14	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00

ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP	CATLOAD	CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	TOGGBHP	PMGBHP	NOXGBHP	ROGGBHP	COGBHP
1342.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000
2274.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000
230.00	250	176	250	217.000000000	0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000
20.00	50	0	50	35.101920000	0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000
80.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000
100.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000
420.00	500	251	500	354.711540000	0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000
180.00	250	176	250	212.472220000	0.502500000	0.367000000	1286.375127100	5.535187969	7120.328126800	0.344390767	0.182534978	5.701322246	0.288151755	4.250000000
1361.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000
1342.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000
2274.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000
230.00	250	176	250	217.000000000	0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000
20.00	50	0	50	35.101920000	0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000
80.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000
100.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000
420.00	500	251	500	354.711540000	0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000
180.00	250	176	250	212.472220000	0.502500000	0.367000000	1286.375127100	5.535187969	7120.328126800	0.344390767	0.182534978	5.701322246	0.288151755	4.250000000
1361.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000
1342.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000
2274.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000
230.00	250	176	250	217.000000000	0.288100000	0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000
20.00	50	0	50	35.101920000	0.341700000	0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000
80.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000
100.00	120	51	120	73.192260000	0.341700000	0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000
420.00	500	251	500	354.711540000	0.341700000	0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000
180.00	250	176	250	212.472220000	0.502500000	0.367000000	1286.375127100	5.535187969	7120.328126800	0.344390767	0.182534978	5.701322246	0.288151755	4.250000000
1361.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000
1342.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000
2274.00	1000	751	9999	769.666670000	0.502500000	0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000

SOXGBHP	PM10GBHP	PM25GBHP	CO2GBHP	CH4GBHP	N2OGBHP	TOGLBMG	PMLBMG	NOXLBMG	ROGLBMG	COLBMG	SOXLBMG	PM10LBMG	PM25LBMG
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561
0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855
0.004994136	0.182534978	0.167932179	529.325410480	0.000066290	0.000029716	14.644828896	7.762094019	242.442297390	12.253328337	359.654638780	0.212370000	7.762094019	7.141126498
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561
0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855
0.004994136	0.182534978	0.167932179	529.325410480	0.000066290	0.000029716	14.644828896	7.762094019	242.442297390	12.253328337	359.654638780	0.212370000	7.762094019	7.141126498
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716	22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561
0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036	47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716	26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266
0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716	12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855
0.004994136	0.182534978	0.167932179	529.325410480	0.000066290	0.000029716	14.644828896	7.762094019	242.442297390	12.253328337	359.654638780	0.212370000	7.762094019	7.141126498
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478
0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716	12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478

CO2LBMG	CH4LBMG	N2OLBMG	TOGLBD	PMLBD	NOXLBD	ROGLBD	COLBD	SOXLBD	PM10LBD	PM25LBD	CO2LBD	CH4LBD	N2OLBD
22508.966000000	1.278659612	0.573192240	9.848469163	5.209702673	177.812182430	8.240214149	139.003951720	0.163342268	5.209702673	4.792926459	17312.546777000	0.002168140	0.000971925
22508.966000000	1.278659612	0.573192240	16.688091563	8.827767421	301.300225660	13.962926211	235.540228170	0.276781161	8.827767421	8.121546027	29335.865403000	0.003673882	0.001646913
22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728
22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864
22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398
22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450
22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842
22508.966000000	1.278659612	0.573192240	1.510809496	0.800763562	25.011157709	1.264094305	18.644345238	0.021908799	0.800763562	0.736702477	2322.100163800	0.000290809	0.000130362
22508.966000000	1.278659612	0.573192240	9.987903526	5.283461504	180.329642530	8.356878880	140.971965940	0.165654864	5.283461504	4.860784584	17557.657350000	0.002198836	0.000985685
22508.966000000	1.278659612	0.573192240	9.848469163	5.209702673	177.812182430	8.240214149	139.003951720	0.163342268	5.209702673	4.792926459	17312.546777000	0.002168140	0.000971925
22508.966000000	1.278659612	0.573192240	16.688091563	8.827767421	301.300225660	13.962926211	235.540228170	0.276781161	8.827767421	8.121546027	29335.865403000	0.003673882	0.001646913
22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728
22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864
22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398
22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450
22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842
22508.966000000	1.278659612	0.573192240	1.510809496	0.800763562	25.011157709	1.264094305	18.644345238	0.021908799	0.800763562	0.736702477	2322.100163800	0.000290809	0.000130362
22508.966000000	1.278659612	0.573192240	9.987903526	5.283461504	180.329642530	8.356878880	140.971965940	0.165654864	5.283461504	4.860784584	17557.657350000	0.002198836	0.000985685
22508.966000000	1.278659612	0.573192240	9.848469163	5.209702673	177.812182430	8.240214149	139.003951720	0.163342268	5.209702673	4.792926459	17312.546777000	0.002168140	0.000971925
22508.966000000	1.278659612	0.573192240	16.688091563	8.827767421	301.300225660	13.962926211	235.540228170	0.276781161	8.827767421	8.121546027	29335.865403000	0.003673882	0.001646913
22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292	0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728
22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125	0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864
22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533	0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398
22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818	1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450
22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605	1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842
22508.966000000	1.278659612	0.573192240	1.510809496	0.800763562	25.011157709	1.264094305	18.644345238	0.021908799	0.800763562	0.736702477	2322.100163800	0.000290809	0.000130362
22508.966000000	1.278659612	0.573192240	9.987903526	5.283461504	180.329642530	8.356878880	140.971965940	0.165654864	5.283461504	4.860784584	17557.657350000	0.002198836	0.000985685
22508.966000000	1.278659612	0.573192240	9.848469163	5.209702673	177.812182430	8.240214149	139.003951720	0.163342268	5.209702673	4.792926459	17312.546777000	0.002168140	0.000971925
22508.966000000	1.278659612	0.573192240	16.688091563	8.827767421	301.300225660	13.962926211	235.540228170	0.276781161	8.827767421	8.121546027	29335.865403000	0.003673882	0.001646913

CO2ELBD	TOGLB	PMLB	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB	CO2LB	CH4LB	N2OLB
17312.893605000	2856.056057400	1510.813775200	51565.532903000	2389.662103200	40311.145999000	47.369257749	1510.813775200	1389.948673200	5020638.565300000	0.628760592	0.281858197
29336.453098000	4839.546553300	2560.052552000	87377.065441000	4049.248601100	68306.666171000	80.266536603	2560.052552000	2355.248347900	8507400.966900000	1.065425922	0.477604723
618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456
531.959686060	402.108022640	173.247999870	1797.811965100	336.443782540	1383.071428600	1.806800256	173.247999870	159.388159880	191501.650570000	0.023982744	0.010750885
701.804330920	300.072368320	263.857830170	3103.248432000	251.070550580	2028.504761900	2.383677331	263.857830170	242.749203750	252644.497820000	0.031639980	0.014183439
1914.011811600	818.379186340	719.612264090	8463.404814600	684.737865210	5532.285714300	6.500938176	719.612264090	662.043282960	689030.448610000	0.086290855	0.038682107
3684.472737300	729.229794910	417.460387100	11057.078516000	610.146569400	10620.067639000	12.479544028	417.460387100	384.063556130	1322699.214700000	0.165648479	0.074256215
2322.146683200	542.380609080	287.474118790	8979.005617400	453.809855610	6693.319940500	7.865258841	287.474118790	264.476189290	833633.958810000	0.104400302	0.046800135
17558.009088000	3585.657365700	1896.762679900	64738.341670000	3000.119517900	50608.935772000	59.470096014	1896.762679900	1745.021665500	6303198.988600000	0.789382282	0.353861023
17312.893605000	3535.600429600	1870.283259700	63834.573491000	2958.236879500	49902.418667000	58.639874248	1870.283259700	1720.660598900	6215204.292900000	0.778362250	0.348921009
29336.453098000	5991.024871100	3169.168504100	108166.781010000	5012.690509700	84558.941915000	99.364436691	3169.168504100	2915.635023800	10531575.680000000	1.318923813	0.591241709
618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456
531.959686060	497.050194650	214.153777620	2222.295345700	415.881897860	1709.629960300	2.233405872	214.153777620	197.021475410	236717.318060000	0.029645337	0.013289289
701.804330920	370.922788620	326.157595620	3835.959867400	310.351097240	2507.457275100	2.946490034	326.157595620	300.064987970	312296.670920000	0.039110531	0.017532307
1914.011811600	1011.607605300	889.520715330	10461.708729000	846.412083380	6838.519841300	8.035881912	889.520715330	818.359058110	851718.193420000	0.106665084	0.047815383
3684.472737300	901.888660000	516.301982930	13675.049753000	754.610241830	13134.568333000	15.434310720	516.301982930	474.997824290	1635873.123400000	0.204868871	0.091837770
2322.146683200	670.799416240	355.539021570	11104.954023000	561.257871570	8278.089285700	9.727506756	355.539021570	327.095899850	1031012.472700000	0.129119036	0.057880947
17558.009088000	4434.629165400	2345.856907700	80066.361285000	3710.454222700	62591.552877000	73.550759416	2345.856907700	2158.188355100	7795599.863300000	0.976283380	0.437644274
17312.893605000	4372.720308500	2313.107986900	78948.608997000	3658.655082200	61717.754563000	72.523967036	2313.107986900	2128.059347900	7686770.769000000	0.962654148	0.431534618
29336.453098000	7409.512654000	3919.528734900	133777.300190000	6199.539237600	104579.861310000	122.890835350	3919.528734900	3605.966436100	13025124.239000000	1.631203825	0.731229301
618.613621460	1.240490082	0.813265074	17.814322584	1.037918051	9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456
531.959686060	614.331701250	264.684444250	2746.657168800	514.011334440	2113.025793700	2.760389280	264.684444250	243.509688710	292571.966150000	0.036640304	0.016424964
701.804330920	458.443896050	403.116129420	4741.073993400	383.580007820	3099.104497400	3.641729256	403.116129420	370.866839070	385984.649450000	0.048338858	0.021669143
1914.011811600	1250.301534700	1099.407625700	12930.201800000	1046.127294100	8452.103174600	9.931988880	1099.407625700	1011.455015600	1052685.407600000	0.131833250	0.059097664
3684.472737300	1115.173140400	638.400424830	16909.014221000	933.065366580	16240.716250000	19.084316633	638.400424830	587.328390850	2022735.010700000	0.253317590	0.113556161
2322.146683200	829.434413320	439.619195590	13731.125582000	693.987773630	10235.745536000	12.027930651	439.619195590	404.449659940	1274832.989900000	0.159653943	0.071569009
17558.009088000	5483.359035500	2900.620365600	99000.973751000	4587.926505000	77393.609301000	90.944520089	2900.620365600	2668.570736400	9639153.885100000	1.207161206	0.541141230
17312.893605000	5406.809570700	2860.126767600	97618.888151000	4523.877567800	76313.169494000	89.674905187	2860.126767600	2631.316626200	9504588.180600000	1.190308845	0.533586724
29336.453098000	9161.762268100	4846.444314000	165413.823890000	7665.646489700	129311.585270000	151.952857220	4846.444314000	4458.728768900	16105390.106000000	2.016961486	0.904155149

CO2ELB	TOGTON	PMTON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	CO2TONNE	CH4TONNE	N2OTONNE	CO2ETONNE
5020739.145300000	1.428028029	0.755406888	25.782766452	1.194831052	20.155572999	0.023684629	0.755406888	0.694974337	2277.361653200	0.000285206	0.000127851	2277.407276300
8507571.398300000	2.419773277	1.280026276	43.688532721	2.024624301	34.153333085	0.040133268	1.280026276	1.177624174	3858.957078600	0.000483277	0.000216642	3859.034386300
1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
191505.486980000	0.201054011	0.086624000	0.898905983	0.168221891	0.691535714	0.000903400	0.086624000	0.079694080	86.865148698	0.000010879	0.000004877	86.866888894
252649.559130000	0.150036184	0.131928915	1.551624216	0.125535275	1.014252381	0.001191839	0.131928915	0.121374602	114.599544210	0.000014352	0.000006434	114.601840020
689044.252170000	0.409189593	0.359806132	4.231702407	0.342368933	2.766142857	0.003250469	0.359806132	0.331021641	312.544211490	0.000039142	0.000017546	312.550472790
1322725.712700000	0.364614897	0.208730194	5.528539258	0.305073285	5.310033819	0.006239772	0.208730194	0.192031778	599.976363770	0.000075138	0.000033683	599.988383280
833650.659260000	0.271190305	0.143737059	4.489502809	0.226904928	3.346659970	0.003932629	0.143737059	0.132238095	378.136363720	0.000047356	0.000021229	378.143939040
6303325.262500000	1.792828683	0.948381340	32.369170835	1.500059759	25.304467886	0.029735048	0.948381340	0.872510833	2859.131061200	0.000358064	0.000160511	2859.188339100
6215328.804100000	1.767800215	0.935141630	31.917286745	1.479118440	24.951209334	0.029319937	0.935141630	0.860330299	2819.216667300	0.000353065	0.000158271	2819.273145500
10531786.662000000	2.995512436	1.584584252	54.083390506	2.506345255	42.279470957	0.049682218	1.584584252	1.457817512	4777.122728300	0.000598264	0.000268187	4777.218429900
1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
236722.060290000	0.248525097	0.107076889	1.111147673	0.207940949	0.854814980	0.001116703	0.107076889	0.098510738	107.374975470	0.000013447	0.000006028	107.377126550
312302.927260000	0.185461394	0.163078798	1.917979934	0.155175549	1.253728638	0.001473245	0.163078798	0.150032494	141.657769930	0.000017741	0.000007953	141.660607800
851735.256160000	0.505803803	0.444760358	5.230854365	0.423206042	3.419259921	0.004017941	0.444760358	0.409179529	386.339372540	0.000048383	0.000021689	386.347112190
1635905.895400000	0.450944330	0.258150991	6.837524876	0.377305121	6.567284167	0.007717155	0.258150991	0.237498912	742.032048780	0.000092929	0.000041658	742.046914140
1031033.127300000	0.335399708	0.177769511	5.552477011	0.280628936	4.139044643	0.004863753	0.177769511	0.163547950	467.667257630	0.000058568	0.000026255	467.676626560
7795756.035000000	2.217314583	1.172928454	40.033180643	1.855227111	31.295776438	0.036775380	1.172928454	1.079094178	3536.084098000	0.000442842	0.000198515	3536.154937500
7686924.760400000	2.186360154	1.156553993	39.474304498	1.829327541	30.858877282	0.036261984	1.156553993	1.064029674	3486.719220800	0.000436660	0.000195744	3486.789071300
13025385.175000000	3.704756327	1.959764367	66.888650096	3.099769619	52.289930655	0.061445418	1.959764367	1.802983218	5908.196354800	0.000739914	0.000331686	5908.314715500
1237.227242900	0.000620245	0.000406633	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
292577.827330000	0.307165851	0.132342222	1.373328584	0.257005667	1.056512897	0.001380195	0.132342222	0.121754844	132.710643840	0.000016620	0.000007450	132.713302480
385992.382000000	0.229221948	0.201558065	2.370536997	0.191790004	1.549552249	0.001820865	0.201558065	0.185433420	175.082636990	0.000021927	0.000009829	175.086144480
1052706.496400000	0.625150767	0.549703813	6.465100900	0.523063647	4.226051587	0.004965994	0.549703813	0.505727508	477.498100890	0.000059800	0.000026807	477.507666760
2022775.532800000	0.557586570	0.319200212	8.454507111	0.466532683	8.120358125	0.009542158	0.319200212	0.293664195	917.512600860	0.000114905	0.000051509	917.530981670
1274858.529100000	0.414717207	0.219809598	6.865562791	0.346993887	5.117872768	0.006013965	0.219809598	0.202224830	578.264244240	0.000072419	0.000032464	578.275828780
9639346.989200000	2.741679518	1.450310183	49.500486876	2.293963253	38.696804650	0.045472260	1.450310183	1.334285368	4372.320202300	0.000547568	0.000245462	4372.407794300
9504778.588900000	2.703404785	1.430063384	48.809444076	2.261938784	38.156584747	0.044837453	1.430063384	1.315658313	4311.281198700	0.000539924	0.000242035	4311.367567900
16105712.751000000	4.580881134	2.423222157	82.706911943	3.832823245	64.655792634	0.075976429	2.423222157	2.229364384	7305.404952200	0.000914894	0.000410125	7305.551303600

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR	STARTMO	STARTDAY	ENDYR
IPK_4AB0FNRG	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNRG	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015	2015	1	13	2015
IPK_4AB0FNRG	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015	2015	1	13	2015
IPK_4AB0FNRG	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015	2015	1	13	2015
IPK_4AB0FNRG	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	3.00	7	01/15/2015	2015	2015	1	13	2015
IPK_4AB0FNRH	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	3.00	7	01/15/2015	2015	2015	1	13	2015
IPK_4AB0FNRH	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	3.00	7	01/15/2015	2015	2015	1	13	2015
IPK_4AB0FNRH	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	3.00	7	01/15/2015	2015	2015	1	13	2015
IPK_4AB0FNRH	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	3.00	7	01/15/2015	2015	2015	1	13	2015
IPK_4AB0FNRQ	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNRQ	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015	2015	1	13	2015
IPK_4AB0FNRQ	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015	2015	1	13	2015
IPK_4AB0FNRQ	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015	2015	1	13	2015
IPK_4AB0FNRR	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015	2015	1	13	2015
IPK_4AB0FNRR	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015	2015	1	13	2015
IPK_4AB0FNRR	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015	2015	1	13	2015
IPK_4AB0FNRR	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015	2015	1	13	2015
IPK_4AB0FNRS	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015	2015	1	13	2015
IPK_4AB0FNS1	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNS1	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015	2015	1	13	2015
IPK_4AB0FNS1	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015	2015	1	13	2015

ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP	CATLOAD
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
1	16	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
1	16	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
1	16	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
1	15	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
1	15	DSL	Rotary Table or Top Drive	4	Oil Drilling	34	Driling Rig	22.00	1.00	135.00	175	121	175	150.479170000	0.502500000
1	15	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	455.00	500	251	500	367.025640000	0.502500000
1	15	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	442.00	500	251	500	367.025640000	0.502500000
1	15	DSL	Diesel Engine For Mud Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	424.00	500	251	500	367.025640000	0.502500000
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
1	17	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
1	17	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
1	17	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
1	16	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
1	16	DSL	Rotary Table or Top Drive	4	Oil Drilling	34	Driling Rig	22.00	1.00	135.00	175	121	175	150.479170000	0.502500000
1	16	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	455.00	500	251	500	367.025640000	0.502500000
1	16	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	442.00	500	251	500	367.025640000	0.502500000
1	16	DSL	Diesel Engine For Mud Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	424.00	500	251	500	367.025640000	0.502500000
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
1	18	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
1	18	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000

CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	TOGGBHP	PMGBHP	NOXGBHP	ROGGBHP	COGBHP	SOXGBHP	PM10GBHP	PM25GBHP	CO2GBHP	CH4GBHP	N2OGBHP
0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716
0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716
0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716
0.367000000	1249.795948400	3.920185384	4899.431810100	0.605300744	0.427684380	7.200925017	0.506455132	4.250000000	0.004994136	0.427684380	0.393469630	529.325410480	0.000066290	0.000029716
0.367000000	1315.004200600	9.561513062	12573.429840000	0.291050679	0.151943144	4.895160585	0.243522103	4.250000000	0.004994136	0.151943144	0.139787692	529.325410480	0.000066290	0.000029716
0.367000000	1315.004200600	9.561513062	12573.429840000	0.291050679	0.151943144	4.895160585	0.243522103	4.250000000	0.004994136	0.151943144	0.139787692	529.325410480	0.000066290	0.000029716
0.367000000	1315.004200600	9.561513062	12573.429840000	0.291050679	0.151943144	4.895160585	0.243522103	4.250000000	0.004994136	0.151943144	0.139787692	529.325410480	0.000066290	0.000029716

0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716
0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716

TOGLBMG	PMLBMG	NOXLBMG	ROGLBMG	COLBMG	SOXLBMG	PM10LBMG	PM25LBMG	CO2LBMG	CH4LBMG	N2OLBMG	TOGLBD	PMLBD	NOXLBD
22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292
47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818
12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605
25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839	16.731852172	22508.966000000	1.278659612	0.573192240	1.991547536	1.407157983	23.692329184
12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928	22508.966000000	1.278659612	0.573192240	3.227496010	1.684915809	54.283024960
12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928	22508.966000000	1.278659612	0.573192240	3.135281838	1.636775358	52.732081390
12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928	22508.966000000	1.278659612	0.573192240	3.007600678	1.570119348	50.584621062
22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292
47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818
12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605
25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839	16.731852172	22508.966000000	1.278659612	0.573192240	1.991547536	1.407157983	23.692329184
12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928	22508.966000000	1.278659612	0.573192240	3.227496010	1.684915809	54.283024960
12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928	22508.966000000	1.278659612	0.573192240	3.135281838	1.636775358	52.732081390
12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928	22508.966000000	1.278659612	0.573192240	3.007600678	1.570119348	50.584621062

22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292
47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533

ROGLBD	COLBD	SOXLBD	PM10LBD	PM25LBD	CO2LBD	CH4LBD	N2OLBD	CO2ELBD	TOGLB	PMLB	NOXLB	ROGLB
0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051
0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	4.467866918	1.924977776	19.975688501	3.738264250
0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	3.334137426	2.931753669	34.480538134	2.789672784
1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	9.093102070	7.995691823	94.037831274	7.608198502
1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	6.093842297	3.488526912	92.398984815	5.098717850
1.666327823	13.983258929	0.016431599	1.407157983	1.294585344	1741.575122900	0.000218106	0.000097772	1741.610012400	5.974642608	4.221473949	71.076987552	4.998983470
2.700445912	47.128761574	0.055380575	1.684915809	1.550122545	5869.753191900	0.000735100	0.000329527	5869.870782500	9.682488030	5.054747428	162.849074880	8.101337735
2.623290314	45.782225529	0.053798273	1.636775358	1.505833329	5702.045957800	0.000714097	0.000320112	5702.160188700	9.405845515	4.910326073	158.196244170	7.869870943
2.516459487	43.917791005	0.051607393	1.570119348	1.444509800	5469.835941500	0.000685016	0.000307076	5469.945520400	9.022802033	4.710358043	151.753863190	7.549378461
0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051
0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	5.584833648	2.406222220	24.969610626	4.672830313
0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	4.167671782	3.664692086	43.100672667	3.487090980
1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	11.366377588	9.994614779	117.547289090	9.510248128
1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	8.125123063	4.651369216	123.198646420	6.798290467
1.666327823	13.983258929	0.016431599	1.407157983	1.294585344	1741.575122900	0.000218106	0.000097772	1741.610012400	7.966190144	5.628631932	94.769316736	6.665311294
2.700445912	47.128761574	0.055380575	1.684915809	1.550122545	5869.753191900	0.000735100	0.000329527	5869.870782500	12.909984041	6.739663237	217.132099840	10.801783647
2.623290314	45.782225529	0.053798273	1.636775358	1.505833329	5702.045957800	0.000714097	0.000320112	5702.160188700	12.541127354	6.547101431	210.928325560	10.493161257
2.516459487	43.917791005	0.051607393	1.570119348	1.444509800	5469.835941500	0.000685016	0.000307076	5469.945520400	12.030402710	6.280477391	202.338484250	10.065837948
0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051
0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	6.701800377	2.887466665	29.963532751	5.607396376
0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	5.001206139	4.397630503	51.720807201	4.184509176

COLB	SOXLB	PM10LB	PM25LB	CO2LB	CH4LB	N2OLB	CO2ELB	TOGTON	PMTON	NOXTON
9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
15.367460317	0.020075558	1.924977776	1.770979554	2127.796117400	0.000266475	0.000119454	2127.838744200	0.002233933	0.000962489	0.009987844
22.538941799	0.026485304	2.931753669	2.697213375	2807.161086900	0.000351555	0.000157594	2807.217323700	0.001667069	0.001465877	0.017240269
61.469841270	0.072232646	7.995691823	7.356036477	7655.893873500	0.000958787	0.000429801	7656.047246400	0.004546551	0.003997846	0.047018916
88.747083333	0.104285883	3.488526912	3.209444759	11053.196780000	0.001384249	0.000620525	11053.418212000	0.003046921	0.001744263	0.046199492
41.949776786	0.049294798	4.221473949	3.883756033	5224.725368600	0.000654319	0.000293316	5224.830037200	0.002987321	0.002110737	0.035538494
141.386284720	0.166141726	5.054747428	4.650367634	17609.259576000	0.002205299	0.000988582	17609.612347000	0.004841244	0.002527374	0.081424537
137.346676590	0.161394819	4.910326073	4.517499987	17106.137874000	0.002142290	0.000960337	17106.480566000	0.004702923	0.002455163	0.079098122
131.753373020	0.154822180	4.710358043	4.333529399	16409.507824000	0.002055048	0.000921228	16409.836561000	0.004511401	0.002355179	0.075876932

Emissions for Engines <75 hp	0.009987844
% of total	2.49%
Emissions for Engines 75<hp<120	0.064259185
% of total	16.01%
Emissions for Engines 121<hp<175	0.035538494
% of total	8.86%
Emissions for Engines 175<hp<250	0.008907161
% of total	2.22%
Emissions for Engines 251<hp<750	0.282599083
% of total	70.42%
Emissions for Engines hp >750	0.000000000
% of total	0.00%

9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
19.209325397	0.025094448	2.406222220	2.213724443	2659.745146800	0.000333094	0.000149318	2659.798430300	0.002792417	0.001203111	0.012484805
28.173677249	0.033106630	3.664692086	3.371516719	3508.951358700	0.000439444	0.000196992	3509.021654600	0.002083836	0.001832346	0.021550336
76.837301587	0.090290808	9.994614779	9.195045597	9569.867341800	0.001198484	0.000537251	9570.059058000	0.005683189	0.004997307	0.058773645
118.329444440	0.139047844	4.651369216	4.279259678	14737.595706000	0.001845666	0.000827367	14737.890949000	0.004062562	0.002325685	0.061599323
55.933035714	0.065726397	5.628631932	5.178341378	6966.300491500	0.000872426	0.000391087	6966.440049500	0.003983095	0.002814316	0.047384658
188.515046300	0.221522301	6.739663237	6.200490178	23479.012768000	0.002940398	0.001318110	23479.483130000	0.006454992	0.003369832	0.108566050
183.128902120	0.215193092	6.547101431	6.023333316	22808.183831000	0.002856387	0.001280449	22808.640755000	0.006270564	0.003273551	0.105464163
175.671164020	0.206429573	6.280477391	5.778039199	21879.343766000	0.002740064	0.001228304	21879.782082000	0.006015201	0.003140239	0.101169242

Emissions for Engines <75 hp	0.012484805
% of total	2.37%
Emissions for Engines 75<hp<120	0.080323981
% of total	15.27%
Emissions for Engines 121<hp<175	0.047384658
% of total	9.01%
Emissions for Engines 175<hp<250	0.008907161
% of total	1.69%
Emissions for Engines 251<hp<750	0.376798778
% of total	71.65%
Emissions for Engines hp >750	0.000000000
% of total	0.00%

9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
23.051190476	0.030113338	2.887466665	2.656469331	3191.694176100	0.000399712	0.000179181	3191.758116300	0.003350900	0.001443733	0.014981766
33.808412698	0.039727956	4.397630503	4.045820063	4210.741630400	0.000527333	0.000236391	4210.825985500	0.002500603	0.002198815	0.025860404

ROGTON	COTON	SOXTON	PM10TON	PM25TON	CO2TONNE	CH4TONNE	N2OTONNE	CO2ETONNE
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.001869132	0.007683730	0.000010038	0.000962489	0.000885490	0.965168319	0.000000121	0.000000054	0.965187654
0.001394836	0.011269471	0.000013243	0.001465877	0.001348607	1.273328269	0.000000159	0.000000071	1.273353778
0.003804099	0.030734921	0.000036116	0.003997846	0.003678018	3.472713461	0.000000435	0.000000195	3.472783031
0.002549359	0.044373542	0.000052143	0.001744263	0.001604722	5.013730059	0.000000628	0.000000281	5.013830501
0.002499492	0.020974888	0.000024647	0.002110737	0.001941878	2.369935427	0.000000297	0.000000133	2.369982905
0.004050669	0.070693142	0.000083071	0.002527374	0.002325184	7.987560144	0.000001000	0.000000448	7.987720161
0.003934935	0.068673338	0.000080697	0.002455163	0.002258750	7.759344139	0.000000972	0.000000436	7.759499585
0.003774689	0.065876687	0.000077411	0.002355179	0.002166765	7.443352749	0.000000932	0.000000418	7.443501864

0.001869132	0.007683730	0.000010038	0.000962489	0.000885490	Industrial - Other General Industrial
7.66%	2.36%	2.62%	5.34%	5.34%	
0.005198935	0.042004392	0.000049359	0.005463723	0.005026625	Industrial - Other General Industrial
21.31%	12.91%	12.88%	30.31%	30.31%	
0.002499492	0.020974888	0.000024647	0.002110737	0.001941878	Oil Drilling - Drilling Rig
10.25%	6.45%	6.43%	11.71%	11.71%	
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	Construction and Mining - Cranes
2.13%	1.53%	1.52%	2.26%	2.26%	
0.014309652	0.249616709	0.000293322	0.009081979	0.008355421	Oil Drilling - Drilling Rig
58.66%	76.75%	76.55%	50.38%	50.38%	Industrial - Other General Industrial
0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	
0.00%	0.00%	0.00%	0.00%	0.00%	

0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.002336415	0.009604663	0.000012547	0.001203111	0.001106862	1.206460399	0.000000151	0.000000068	1.206484568
0.001743545	0.014086839	0.000016553	0.001832346	0.001685758	1.591660336	0.000000199	0.000000089	1.591692223
0.004755124	0.038418651	0.000045145	0.004997307	0.004597523	4.340891826	0.000000544	0.000000244	4.340978789
0.003399145	0.059164722	0.000069524	0.002325685	0.002139630	6.684973412	0.000000837	0.000000375	6.685107335
0.003332656	0.027966518	0.000032863	0.002814316	0.002589171	3.159913903	0.000000396	0.000000177	3.159977206
0.005400892	0.094257523	0.000110761	0.003369832	0.003100245	10.650080191	0.000001334	0.000000598	10.650293548
0.005246581	0.091564451	0.000107597	0.003273551	0.003011667	10.345792186	0.000001296	0.000000581	10.345999446
0.005032919	0.087835582	0.000103215	0.003140239	0.002889020	9.924470332	0.000001243	0.000000557	9.924669152

0.002336415	0.009604663	0.000012547	0.001203111	0.001106862	Industrial - Other General Industrial
7.36%	2.24%	2.49%	5.15%	5.15%	
0.006498669	0.052505490	0.000061698	0.006829653	0.006283281	Industrial - Other General Industrial
20.46%	12.27%	12.24%	29.23%	29.23%	
0.003332656	0.027966518	0.000032863	0.002814316	0.002589171	Oil Drilling - Drilling Rig
10.49%	6.54%	6.52%	12.05%	12.05%	
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	Construction and Mining - Cranes
1.63%	1.16%	1.16%	1.74%	1.74%	
0.019079537	0.332822278	0.000391097	0.012109307	0.011140562	Oil Drilling - Drilling Rig
60.06%	77.79%	77.59%	51.83%	51.83%	Industrial - Other General Industrial
0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	
0.00%	0.00%	0.00%	0.00%	0.00%	

0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.002803698	0.011525595	0.000015057	0.001443733	0.001328235	1.447752478	0.000000181	0.000000081	1.447781482
0.002092255	0.016904206	0.000019864	0.002198815	0.002022910	1.909992404	0.000000239	0.000000107	1.910030667

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR	STARTMO	STARTDAY	ENDYR
IPK_4AB0FNS1	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015	2015	1	13	2015
IPK_4AB0FNS1	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015	2015	1	13	2015
IPK_4AB0FNS2	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015	2015	1	13	2015
IPK_4AB0FNS2	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015	2015	1	13	2015
IPK_4AB0FNS2	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015	2015	1	13	2015
IPK_4AB0FNS2	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015	2015	1	13	2015
IPK_4AB0FNSB	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNSB	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	7.00	7	01/19/2015	2015	2015	1	13	2015
IPK_4AB0FNSB	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	7.00	7	01/19/2015	2015	2015	1	13	2015
IPK_4AB0FNSC	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	7.00	7	01/19/2015	2015	2015	1	13	2015
IPK_4AB0FNSC	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015	2015	1	13	2015
IPK_4AB0FNSC	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015	2015	1	13	2015
IPK_4AB0FNSC	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015	2015	1	13	2015
IPK_4AB0FNSC	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015	2015	1	13	2015
IPK_4AB0FNSC	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015	2015	1	13	2015
IPK_4AB0FNSL	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNSM	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	9.00	7	01/21/2015	2015	2015	1	13	2015
IPK_4AB0FNSM	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	9.00	7	01/21/2015	2015	2015	1	13	2015
IPK_4AB0FNSM	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	9.00	7	01/21/2015	2015	2015	1	13	2015
IPK_4AB0FNSM	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	8.00	7	01/20/2015	2015	2015	1	13	2015
IPK_4AB0FNSM	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	8.00	7	01/20/2015	2015	2015	1	13	2015

ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP	CATLOAD
1	18	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
1	17	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
1	17	DSL	Rotary Table or Top Drive	4	Oil Drilling	34	Driling Rig	22.00	1.00	135.00	175	121	175	150.479170000	0.502500000
1	17	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	455.00	500	251	500	367.025640000	0.502500000
1	17	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	442.00	500	251	500	367.025640000	0.502500000
1	17	DSL	Diesel Engine For Mud Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	424.00	500	251	500	367.025640000	0.502500000
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
1	19	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
1	19	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
1	19	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
1	18	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
1	18	DSL	Rotary Table or Top Drive	4	Oil Drilling	34	Driling Rig	22.00	1.00	135.00	175	121	175	150.479170000	0.502500000
1	18	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	455.00	500	251	500	367.025640000	0.502500000
1	18	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	442.00	500	251	500	367.025640000	0.502500000
1	18	DSL	Diesel Engine For Mud Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	424.00	500	251	500	367.025640000	0.502500000
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
1	21	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
1	21	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
1	21	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
1	20	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
1	20	DSL	Rotary Table or Top Drive	4	Oil Drilling	34	Driling Rig	22.00	1.00	135.00	175	121	175	150.479170000	0.502500000

CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	TOGGBHP	PMGBHP	NOXGBHP	ROGGBHP	COGBHP	SOXGBHP	PM10GBHP	PM25GBHP	CO2GBHP	CH4GBHP	N2OGBHP
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716
0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716
0.367000000	1249.795948400	3.920185384	4899.431810100	0.605300744	0.427684380	7.200925017	0.506455132	4.250000000	0.004994136	0.427684380	0.393469630	529.325410480	0.000066290	0.000029716
0.367000000	1315.004200600	9.561513062	12573.429840000	0.291050679	0.151943144	4.895160585	0.243522103	4.250000000	0.004994136	0.151943144	0.139787692	529.325410480	0.000066290	0.000029716
0.367000000	1315.004200600	9.561513062	12573.429840000	0.291050679	0.151943144	4.895160585	0.243522103	4.250000000	0.004994136	0.151943144	0.139787692	529.325410480	0.000066290	0.000029716
0.367000000	1315.004200600	9.561513062	12573.429840000	0.291050679	0.151943144	4.895160585	0.243522103	4.250000000	0.004994136	0.151943144	0.139787692	529.325410480	0.000066290	0.000029716
0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716
0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716
0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716
0.367000000	1249.795948400	3.920185384	4899.431810100	0.605300744	0.427684380	7.200925017	0.506455132	4.250000000	0.004994136	0.427684380	0.393469630	529.325410480	0.000066290	0.000029716
0.367000000	1315.004200600	9.561513062	12573.429840000	0.291050679	0.151943144	4.895160585	0.243522103	4.250000000	0.004994136	0.151943144	0.139787692	529.325410480	0.000066290	0.000029716
0.367000000	1315.004200600	9.561513062	12573.429840000	0.291050679	0.151943144	4.895160585	0.243522103	4.250000000	0.004994136	0.151943144	0.139787692	529.325410480	0.000066290	0.000029716
0.367000000	1315.004200600	9.561513062	12573.429840000	0.291050679	0.151943144	4.895160585	0.243522103	4.250000000	0.004994136	0.151943144	0.139787692	529.325410480	0.000066290	0.000029716

TOGLBMG	PMLBMG	NOXLBMG	ROGLBMG	COLBMG	SOXLBMG	PM10LBMG	PM25LBMG	CO2LBMG	CH4LBMG	N2OLBMG	TOGLBD	PMLBD	NOXLBD
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818
12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605
25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839	16.731852172	22508.966000000	1.278659612	0.573192240	1.991547536	1.407157983	23.692329184
12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928	22508.966000000	1.278659612	0.573192240	3.227496010	1.684915809	54.283024960
12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928	22508.966000000	1.278659612	0.573192240	3.135281838	1.636775358	52.732081390
12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928	22508.966000000	1.278659612	0.573192240	3.007600678	1.570119348	50.584621062
22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292
47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818
12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605
25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839	16.731852172	22508.966000000	1.278659612	0.573192240	1.991547536	1.407157983	23.692329184
12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928	22508.966000000	1.278659612	0.573192240	3.227496010	1.684915809	54.283024960
12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928	22508.966000000	1.278659612	0.573192240	3.135281838	1.636775358	52.732081390
12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928	22508.966000000	1.278659612	0.573192240	3.007600678	1.570119348	50.584621062

ROGLBD	COLBD	SOXLBD	PM10LBD	PM25LBD	CO2LBD	CH4LBD	N2OLBD	CO2ELBD	TOGLB	PMLB	NOXLB	ROGLB
1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	13.639653106	11.993537735	141.056746910	11.412297753
1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	10.156403829	5.814211519	153.998308030	8.497863084
1.666327823	13.983258929	0.016431599	1.407157983	1.294585344	1741.575122900	0.000218106	0.000097772	1741.610012400	9.957737681	7.035789915	118.461645920	8.331639117
2.700445912	47.128761574	0.055380575	1.684915809	1.550122545	5869.753191900	0.000735100	0.000329527	5869.870782500	16.137480051	8.424579047	271.415124800	13.502229558
2.623290314	45.782225529	0.053798273	1.636775358	1.505833329	5702.045957800	0.000714097	0.000320112	5702.160188700	15.676409192	8.183876788	263.660406950	13.116451571
2.516459487	43.917791005	0.051607393	1.570119348	1.444509800	5469.835941500	0.000685016	0.000307076	5469.945520400	15.038003388	7.850596738	252.923105310	12.582297435

0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051
0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	7.818767107	3.368711109	34.957454876	6.541962438
0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	5.834740495	5.130568920	60.340941734	4.881927372
1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	15.912928623	13.992460691	164.566204730	13.314347379
1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	12.187684595	6.977053823	184.797969630	10.197435700
1.666327823	13.983258929	0.016431599	1.407157983	1.294585344	1741.575122900	0.000218106	0.000097772	1741.610012400	11.949285217	8.442947898	142.153975100	9.997966941
2.700445912	47.128761574	0.055380575	1.684915809	1.550122545	5869.753191900	0.000735100	0.000329527	5869.870782500	19.364976061	10.109494856	325.698149760	16.202675470
2.623290314	45.782225529	0.053798273	1.636775358	1.505833329	5702.045957800	0.000714097	0.000320112	5702.160188700	18.811691031	9.820652146	316.392488340	15.739741885
2.516459487	43.917791005	0.051607393	1.570119348	1.444509800	5469.835941500	0.000685016	0.000307076	5469.945520400	18.045604066	9.420716086	303.507726370	15.098756922

0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051
0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	10.052700566	4.331199997	44.945299127	8.411094564
0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	7.501809208	6.596445754	77.581210801	6.276763764
1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	20.459479658	17.990306602	211.585120370	17.118446630
1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	16.250246126	9.302738431	246.397292840	13.596580934
1.666327823	13.983258929	0.016431599	1.407157983	1.294585344	1741.575122900	0.000218106	0.000097772	1741.610012400	15.932380289	11.257263864	189.538633470	13.330622588

COLB	SOXLB	PM10LB	PM25LB	CO2LB	CH4LB	N2OLB	CO2ELB	TOGTON	PMTON	NOXTON
92.204761905	0.108348970	11.993537735	11.034054716	11483.840810000	0.001438181	0.000644702	11484.070870000	0.006819827	0.005996769	0.070528373
147.911805560	0.173809805	5.814211519	5.349074598	18421.994633000	0.002307082	0.001034209	18422.363687000	0.005078202	0.002907106	0.076999154
69.916294643	0.082157996	7.035789915	6.472926722	8707.875614300	0.001090532	0.000488859	8708.050061900	0.004978869	0.003517895	0.059230823
235.643807870	0.276902876	8.424579047	7.750612723	29348.765959000	0.003675498	0.001647637	29349.353912000	0.008068740	0.004212290	0.135707562
228.911127650	0.268991366	8.183876788	7.529166645	28510.229789000	0.003570484	0.001600562	28510.800944000	0.007838205	0.004091938	0.131830203
219.588955030	0.258036966	7.850596738	7.222548999	27349.179707000	0.003425080	0.001535380	27349.727602000	0.007519002	0.003925298	0.126461553

Emissions for Engines <75 hp	0.014981766
% of total	2.30%
Emissions for Engines 75<hp<120	0.096388777
% of total	14.82%
Emissions for Engines 121<hp<175	0.059230823
% of total	9.11%
Emissions for Engines 175<hp<250	0.008907161
% of total	1.37%
Emissions for Engines 251<hp<750	0.470998472
% of total	72.40%
Emissions for Engines hp >750	0.000000000
% of total	0.00%

9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
26.893055556	0.035132227	3.368711109	3.099214220	3723.643205500	0.000466331	0.000209045	3723.717802400	0.003909384	0.001684356	0.017478727
39.443148148	0.046349281	5.130568920	4.720123406	4912.531902100	0.000615222	0.000275789	4912.630316400	0.002917370	0.002565284	0.030170471
107.572222220	0.126407131	13.992460691	12.873063835	13397.814279000	0.001677878	0.000752152	13398.082681000	0.007956464	0.006996230	0.082283102
177.494166670	0.208571766	6.977053823	6.418889517	22106.393560000	0.002768498	0.001241051	22106.836424000	0.006093842	0.003488527	0.092398985
83.899553571	0.098589596	8.442947898	7.767512066	10449.450737000	0.001308639	0.000586631	10449.660074000	0.005974643	0.004221474	0.071076988
282.772569440	0.332283452	10.109494856	9.300735268	35218.519151000	0.004410598	0.001977164	35219.224695000	0.009682488	0.005054747	0.162849075
274.693353170	0.322789639	9.820652146	9.034999974	34212.275747000	0.004284581	0.001920674	34212.961132000	0.009405846	0.004910326	0.158196244
263.506746030	0.309644359	9.420716086	8.667058799	32819.015649000	0.004110095	0.001842457	32819.673122000	0.009022802	0.004710358	0.151753863

Emissions for Engines <75 hp	0.017478727
% of total	2.25%
Emissions for Engines 75<hp<120	0.112453573
% of total	14.51%
Emissions for Engines 121<hp<175	0.071076988
% of total	9.17%
Emissions for Engines 175<hp<250	0.008907161
% of total	1.15%
Emissions for Engines 251<hp<750	0.565198167
% of total	72.92%
Emissions for Engines hp >750	0.000000000
% of total	0.00%

9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
34.576785714	0.045170006	4.331199997	3.984703997	4787.541264200	0.000599569	0.000268772	4787.637174500	0.005026350	0.002165600	0.022472650
50.712619048	0.059591933	6.596445754	6.068730094	6316.112445600	0.000791000	0.000354586	6316.238978300	0.003750905	0.003298223	0.038790605
138.307142860	0.162523454	17.990306602	16.551082074	17225.761215000	0.002157271	0.000967053	17226.106304000	0.010229740	0.008995153	0.105792560
236.658888890	0.278095689	9.302738431	8.558519357	29475.191413000	0.003691331	0.001654735	29475.781899000	0.008125123	0.004651369	0.123198646
111.866071430	0.131452794	11.257263864	10.356682755	13932.600983000	0.001744852	0.000782175	13932.880099000	0.007966190	0.005628632	0.094769317

ROGTON	COTON	SOXTON	PM10TON	PM25TON	CO2TONNE	CH4TONNE	N2OTONNE	CO2ETONNE
0.005706149	0.046102381	0.000054174	0.005996769	0.005517027	5.209070192	0.000000652	0.000000292	5.209174546
0.004248932	0.073955903	0.000086905	0.002907106	0.002674537	8.356216766	0.000001046	0.000000469	8.356384168
0.004165820	0.034958147	0.000041079	0.003517895	0.003236463	3.949892379	0.000000495	0.000000222	3.949971508
0.006751115	0.117821904	0.000138451	0.004212290	0.003875306	13.312600239	0.000001667	0.000000747	13.312866935
0.006558226	0.114455564	0.000134496	0.004091938	0.003764583	12.932240232	0.000001620	0.000000726	12.932499308
0.006291149	0.109794478	0.000129018	0.003925298	0.003611275	12.405587915	0.000001554	0.000000696	12.405836440

0.002803698	0.011525595	0.000015057	0.001443733	0.001328235	Industrial - Other General Industrial
7.16%	2.17%	2.41%	5.03%	5.03%	
0.007798404	0.063006587	0.000074038	0.008195584	0.007539937	Industrial - Other General Industrial
19.93%	11.88%	11.85%	28.56%	28.56%	
0.004165820	0.034958147	0.000041079	0.003517895	0.003236463	Oil Drilling - Drilling Rig
10.64%	6.59%	6.57%	12.26%	12.26%	
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	Construction and Mining - Cranes
1.33%	0.94%	0.93%	1.42%	1.42%	
0.023849422	0.416027849	0.000488870	0.015136632	0.013925701	Oil Drilling - Drilling Rig
60.94%	78.42%	78.23%	52.74%	52.74%	Industrial - Other General Industrial
0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	
0.00%	0.00%	0.00%	0.00%	0.00%	

0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.003270981	0.013446528	0.000017566	0.001684356	0.001549607	1.689044558	0.000000212	0.000000095	1.689078395
0.002440964	0.019721574	0.000023175	0.002565284	0.002360062	2.228324471	0.000000279	0.000000125	2.228369112
0.006657174	0.053786111	0.000063204	0.006996230	0.006436532	6.077248557	0.000000761	0.000000341	6.077370304
0.005098718	0.088747083	0.000104286	0.003488527	0.003209445	10.027460119	0.000001256	0.000000563	10.027661002
0.004998983	0.041949777	0.000049295	0.004221474	0.003883756	4.739870854	0.000000594	0.000000266	4.739965810
0.008101338	0.141386285	0.000166142	0.005054747	0.004650368	15.975120287	0.000002001	0.000000897	15.975440322
0.007869871	0.137346677	0.000161395	0.004910326	0.004517500	15.518688279	0.000001943	0.000000871	15.518999170
0.007549378	0.131753373	0.000154822	0.004710358	0.004333529	14.886705498	0.000001864	0.000000836	14.887003728

0.003270981	0.013446528	0.000017566	0.001684356	0.001549607	Industrial - Other General Industrial
7.03%	2.12%	2.36%	4.95%	4.95%	
0.009098138	0.073507685	0.000086379	0.009561514	0.008796594	Industrial - Other General Industrial
19.56%	11.61%	11.58%	28.09%	28.09%	
0.004998983	0.041949777	0.000049295	0.004221474	0.003883756	Oil Drilling - Drilling Rig
10.75%	6.63%	6.61%	12.40%	12.40%	
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	Construction and Mining - Cranes
1.12%	0.78%	0.78%	1.19%	1.19%	
0.028619305	0.499233418	0.000586645	0.018163958	0.016710842	Oil Drilling - Drilling Rig
61.54%	78.85%	78.67%	53.36%	53.36%	Industrial - Other General Industrial
0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	
0.00%	0.00%	0.00%	0.00%	0.00%	

0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.004205547	0.017288393	0.000022585	0.002165600	0.001992352	2.171628717	0.000000272	0.000000122	2.171672222
0.003138382	0.025356310	0.000029796	0.003298223	0.003034365	2.864988605	0.000000359	0.000000161	2.865046001
0.008559223	0.069153571	0.000081262	0.008995153	0.008275541	7.813605287	0.000000979	0.000000439	7.813761820
0.006798290	0.118329444	0.000139048	0.004651369	0.004279260	13.369946825	0.000001674	0.000000751	13.370214669
0.006665311	0.055933036	0.000065726	0.005628632	0.005178341	6.319827806	0.000000791	0.000000355	6.319954413

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR	STARTMO	STARTDAY	ENDYR
IPK_4AB0FNSM	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	8.00	7	01/20/2015	2015	2015	1	13	2015
IPK_4AB0FNSN	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	8.00	7	01/20/2015	2015	2015	1	13	2015
IPK_4AB0FNSN	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	8.00	7	01/20/2015	2015	2015	1	13	2015
IPK_4AB0FNSW	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNSW	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	11.00	7	01/23/2015	2015	2015	1	13	2015
IPK_4AB0FNSW	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	11.00	7	01/23/2015	2015	2015	1	13	2015
IPK_4AB0FNSW	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	11.00	7	01/23/2015	2015	2015	1	13	2015
IPK_4AB0FNSX	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	10.00	7	01/22/2015	2015	2015	1	13	2015
IPK_4AB0FNSX	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	10.00	7	01/22/2015	2015	2015	1	13	2015
IPK_4AB0FNSX	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	10.00	7	01/22/2015	2015	2015	1	13	2015
IPK_4AB0FNSX	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	10.00	7	01/22/2015	2015	2015	1	13	2015
IPK_4AB0FNSX	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	10.00	7	01/22/2015	2015	2015	1	13	2015
IPK_4AB0FNT6	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNT6	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	13.00	7	01/25/2015	2015	2015	1	13	2015
IPK_4AB0FNT6	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	13.00	7	01/25/2015	2015	2015	1	13	2015
IPK_4AB0FNT7	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	13.00	7	01/25/2015	2015	2015	1	13	2015
IPK_4AB0FNT7	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	12.00	7	01/24/2015	2015	2015	1	13	2015
IPK_4AB0FNT7	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	12.00	7	01/24/2015	2015	2015	1	13	2015
IPK_4AB0FNT7	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	12.00	7	01/24/2015	2015	2015	1	13	2015
IPK_4AB0FNT7	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	12.00	7	01/24/2015	2015	2015	1	13	2015
IPK_4AB0FNT8	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	12.00	7	01/24/2015	2015	2015	1	13	2015

ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP	CATLOAD
1	20	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	455.00	500	251	500	367.025640000	0.502500000
1	20	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	442.00	500	251	500	367.025640000	0.502500000
1	20	DSL	Diesel Engine For Mud Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	424.00	500	251	500	367.025640000	0.502500000
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
1	23	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
1	23	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
1	23	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
1	22	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
1	22	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	144.00	175	121	175	150.479170000	0.502500000
1	22	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	996.00	1000	751	9999	769.666670000	0.502500000
1	22	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	981.00	1000	751	9999	769.666670000	0.502500000
1	22	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1145.00	1000	751	9999	769.666670000	0.502500000
1	25	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
1	25	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
1	25	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
1	24	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
1	24	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	144.00	175	121	175	150.479170000	0.502500000
1	24	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	996.00	1000	751	9999	769.666670000	0.502500000
1	24	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	981.00	1000	751	9999	769.666670000	0.502500000
1	24	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1145.00	1000	751	9999	769.666670000	0.502500000

CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	TOGGBHP	PMGBHP	NOXGBHP	ROGGBHP	COGBHP	SOXGBHP	PM10GBHP	PM25GBHP	CO2GBHP	CH4GBHP	N2OGBHP
0.367000000	1315.004200600	9.561513062	12573.429840000	0.291050679	0.151943144	4.895160585	0.243522103	4.250000000	0.004994136	0.151943144	0.139787692	529.325410480	0.000066290	0.000029716
0.367000000	1315.004200600	9.561513062	12573.429840000	0.291050679	0.151943144	4.895160585	0.243522103	4.250000000	0.004994136	0.151943144	0.139787692	529.325410480	0.000066290	0.000029716
0.367000000	1315.004200600	9.561513062	12573.429840000	0.291050679	0.151943144	4.895160585	0.243522103	4.250000000	0.004994136	0.151943144	0.139787692	529.325410480	0.000066290	0.000029716
0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716
0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716
0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716
0.367000000	1249.795948400	3.920185384	4899.431810100	0.605300744	0.427684380	7.200925017	0.506455132	4.250000000	0.004994136	0.427684380	0.393469630	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716
0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716
0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716
0.367000000	1249.795948400	3.920185384	4899.431810100	0.605300744	0.427684380	7.200925017	0.506455132	4.250000000	0.004994136	0.427684380	0.393469630	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716

TOGLBMG	PMLBMG	NOXLBMG	ROGLBMG	COLBMG	SOXLBMG	PM10LBMG	PM25LBMG	CO2LBMG	CH4LBMG	N2OLBMG	TOGLBD	PMLBD	NOXLBD
12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928	22508.966000000	1.278659612	0.573192240	3.227496010	1.684915809	54.283024960
12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928	22508.966000000	1.278659612	0.573192240	3.135281838	1.636775358	52.732081390
12.376601806	6.461210791	208.161182120	10.355502731	359.654638780	0.212370000	6.461210791	5.944313928	22508.966000000	1.278659612	0.573192240	3.007600678	1.570119348	50.584621062
22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292
47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818
12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605
25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839	16.731852172	22508.966000000	1.278659612	0.573192240	2.124317372	1.500968515	25.271817796
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	7.309296041	3.866515546	131.967908860
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	7.199216281	3.808284890	129.980440360
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	8.402754987	4.444940060	151.710096030
22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292
47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818
12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605
25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839	16.731852172	22508.966000000	1.278659612	0.573192240	2.124317372	1.500968515	25.271817796
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	7.309296041	3.866515546	131.967908860
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	7.199216281	3.808284890	129.980440360
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	8.402754987	4.444940060	151.710096030

ROGLBD	COLBD	SOXLBD	PM10LBD	PM25LBD	CO2LBD	CH4LBD	N2OLBD	CO2ELBD	TOGLB	PMLB	NOXLB	ROGLB
2.700445912	47.128761574	0.055380575	1.684915809	1.550122545	5869.753191900	0.000735100	0.000329527	5869.870782500	25.819968081	13.479326475	434.264199680	21.603567294
2.623290314	45.782225529	0.053798273	1.636775358	1.505833329	5702.045957800	0.000714097	0.000320112	5702.160188700	25.082254707	13.094202861	421.856651120	20.986322514
2.516459487	43.917791005	0.051607393	1.570119348	1.444509800	5469.835941500	0.000685016	0.000307076	5469.945520400	24.060805421	12.560954781	404.676968490	20.131675896
0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051
0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	12.286634025	5.293688885	54.933143377	10.280226689
0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	9.168877921	8.062322588	94.821479868	7.671600157
1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	25.006030694	21.988152514	258.604036000	20.922545881
1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	20.312807658	11.628423039	307.996616050	16.995726167
1.777416345	14.915476190	0.017527039	1.500968515	1.380891034	1857.680131100	0.000232647	0.000104290	1857.717346500	21.243173719	15.009685153	252.718177960	17.774163450
6.115687997	103.165376980	0.121228688	3.866515546	3.557194302	12848.954240000	0.001609141	0.000721339	12849.211647000	73.092960408	38.665155458	1319.679088600	61.156879973
6.023584262	101.611681550	0.119402955	3.808284890	3.503622099	12655.445893000	0.001584907	0.000710476	12655.699423000	71.992162811	38.082848900	1299.804403600	60.235842624
7.030585097	118.598751650	0.139364305	4.444940060	4.089344855	14771.137153000	0.001849866	0.000829250	14771.433068000	84.027549866	44.449400602	1517.100960300	70.305850973
0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051
0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	14.520567484	6.256177773	64.920987627	12.149358814
0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	10.835946634	9.528199423	112.061748930	9.066436549
1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	29.552581729	25.985998425	305.622951640	24.726645133
1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	24.375369189	13.954107647	369.595939260	20.394871401
1.777416345	14.915476190	0.017527039	1.500968515	1.380891034	1857.680131100	0.000232647	0.000104290	1857.717346500	25.491808462	18.011622183	303.261813560	21.328996140
6.115687997	103.165376980	0.121228688	3.866515546	3.557194302	12848.954240000	0.001609141	0.000721339	12849.211647000	87.711552489	46.398186550	1583.614906400	73.388255968
6.023584262	101.611681550	0.119402955	3.808284890	3.503622099	12655.445893000	0.001584907	0.000710476	12655.699423000	86.390595373	45.699418680	1559.765284300	72.283011149
7.030585097	118.598751650	0.139364305	4.444940060	4.089344855	14771.137153000	0.001849866	0.000829250	14771.433068000	100.833059840	53.339280722	1820.521152400	84.367021168

COLB	SOXLB	PM10LB	PM25LB	CO2LB	CH4LB	N2OLB	CO2ELB	TOGTON	PMTON	NOXTON
377.030092590	0.443044602	13.479326475	12.400980357	46958.025535000	0.005880797	0.002636219	46958.966260000	0.012909984	0.006739663	0.217132100
366.257804230	0.430386185	13.094202861	12.046666632	45616.367663000	0.005712774	0.002560899	45617.281510000	0.012541127	0.006547101	0.210928326
351.342328040	0.412859146	12.560954781	11.556078399	43758.687532000	0.005480127	0.002456609	43759.564163000	0.012030403	0.006280477	0.202338484

Emissions for Engines <75 hp	0.022472650
% of total	2.19%
Emissions for Engines 75<hp<120	0.144583165
% of total	14.11%
Emissions for Engines 121<hp<175	0.094769317
% of total	9.25%
Emissions for Engines 175<hp<250	0.008907161
% of total	0.87%
Emissions for Engines 251<hp<750	0.753597556
% of total	73.57%
Emissions for Engines hp >750	0.000000000
% of total	0.00%

9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
42.260515873	0.055207786	5.293688885	4.870193774	5851.439322900	0.000732806	0.000328499	5851.556546600	0.006143317	0.002646844	0.027466572
61.982089947	0.072834585	8.062322588	7.417336781	7719.692989100	0.000966777	0.000433383	7719.847640100	0.004584439	0.004031161	0.047410740
169.042063490	0.198639778	21.988152514	20.229100313	21053.708152000	0.002636665	0.001181953	21054.129928000	0.012503015	0.010994076	0.129302018
295.823611110	0.347619611	11.628423039	10.698149196	36843.989266000	0.004614164	0.002068418	36844.727373000	0.010156404	0.005814212	0.153998308
149.154761900	0.175270392	15.009685153	13.808910340	18576.801311000	0.002326469	0.001042900	18577.173465000	0.010621587	0.007504843	0.126359089
1031.653769800	1.212286878	38.665155458	35.571943021	128489.542400000	0.016091411	0.007213391	128492.116470000	0.036546480	0.019332578	0.659839544
1016.116815500	1.194029546	38.082848900	35.036220988	126554.458930000	0.015849071	0.007104756	126556.994230000	0.035996081	0.019041424	0.649902202
1185.987516500	1.393643048	44.449400602	40.893448554	147711.371530000	0.018498661	0.008292503	147714.330680000	0.042013775	0.022224700	0.758550480

Emissions for Engines <75 hp	0.027466572
% of total	1.07%
Emissions for Engines 75<hp<120	0.176712758
% of total	6.90%
Emissions for Engines 121<hp<175	0.126359089
% of total	4.93%
Emissions for Engines 175<hp<250	0.008907161
% of total	0.35%
Emissions for Engines 251<hp<750	0.153998308
% of total	6.01%
Emissions for Engines hp >750	2.068292226
% of total	80.74%

9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
49.944246032	0.065245565	6.256177773	5.755683551	6915.337381600	0.000866044	0.000388226	6915.475918700	0.007260284	0.003128089	0.032460494
73.251560847	0.086077237	9.528199423	8.765943469	9123.273532500	0.001142555	0.000512180	9123.456301900	0.005417973	0.004764100	0.056030874
199.776984130	0.234756101	25.985998425	23.907118551	24881.655089000	0.003116059	0.001396854	24882.153551000	0.014776291	0.012992999	0.152811476
354.988333330	0.417143533	13.954107647	12.837779035	44212.787119000	0.005536997	0.002482102	44213.672848000	0.012187685	0.006977054	0.184797970
178.985714290	0.210324470	18.011622183	16.570692408	22292.161573000	0.002791763	0.001251480	22292.608159000	0.012745904	0.009005811	0.151630907
1237.984523800	1.454744254	46.398186550	42.686331626	154187.450880000	0.019309694	0.008656070	154190.539760000	0.043855776	0.023199093	0.791807453
1219.340178600	1.432835455	45.699418680	42.043465185	151865.350710000	0.019018885	0.008525707	151868.393080000	0.043195298	0.022849709	0.779882642
1423.185019800	1.672371657	53.339280722	49.072138264	177253.645840000	0.022198393	0.009951004	177257.196820000	0.050416530	0.026669640	0.910260576

ROGTON	COTON	SOXTON	PM10TON	PM25TON	CO2TONNE	CH4TONNE	N2OTONNE	CO2ETONNE
0.010801784	0.188515046	0.000221522	0.006739663	0.006200490	21.300160383	0.000002668	0.000001196	21.300587095
0.010493161	0.183128902	0.000215193	0.006547101	0.006023333	20.691584372	0.000002591	0.000001162	20.691998893
0.010065838	0.175671164	0.000206430	0.006280477	0.005778039	19.848940664	0.000002486	0.000001114	19.849338304

0.004205547	0.017288393	0.000022585	0.002165600	0.001992352	Industrial - Other General Industrial
6.87%	2.06%	2.29%	4.84%	4.84%	
0.011697605	0.094509881	0.000111058	0.012293376	0.011309906	Industrial - Other General Industrial
19.10%	11.27%	11.25%	27.49%	27.49%	
0.006665311	0.055933036	0.000065726	0.005628632	0.005178341	Oil Drilling - Drilling Rig
10.88%	6.67%	6.66%	12.59%	12.59%	
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	Construction and Mining - Cranes
0.85%	0.59%	0.59%	0.91%	0.91%	
0.038159073	0.665644556	0.000782193	0.024218610	0.022281122	Oil Drilling - Drilling Rig
62.30%	79.40%	79.22%	54.16%	54.16%	Industrial - Other General Industrial
0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	
0.00%	0.00%	0.00%	0.00%	0.00%	

0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.005140113	0.021130258	0.000027604	0.002646844	0.002435097	2.654212877	0.000000332	0.000000149	2.654266050
0.003835800	0.030991045	0.000036417	0.004031161	0.003708668	3.501652740	0.000000439	0.000000197	3.501722890
0.010461273	0.084521032	0.000099320	0.010994076	0.010114550	9.549962018	0.000001196	0.000000536	9.550153335
0.008497863	0.147911806	0.000173810	0.005814212	0.005349075	16.712433531	0.000002093	0.000000938	16.712768336
0.008887082	0.074577381	0.000087635	0.007504843	0.006904455	8.426437074	0.000001055	0.000000473	8.426605884
0.030578440	0.515826885	0.000606143	0.019332578	0.017785972	58.282856432	0.000007299	0.000003272	58.284024030
0.030117921	0.508058408	0.000597015	0.019041424	0.017518110	57.405102570	0.000007189	0.000003223	57.406252584
0.035152925	0.592993758	0.000696822	0.022224700	0.020446724	67.001878127	0.000008391	0.000003761	67.003220397

0.005140113	0.021130258	0.000027604	0.002646844	0.002435097	Industrial - Other General Industrial
3.86%	1.07%	1.18%	2.88%	2.88%	
0.014297073	0.115512077	0.000135737	0.015025237	0.013823218	Industrial - Other General Industrial
10.73%	5.83%	5.82%	16.33%	16.33%	
0.008887082	0.074577381	0.000087635	0.007504843	0.006904455	Oil Drilling - Drilling Rig
6.67%	3.76%	3.76%	8.16%	8.16%	
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	Construction and Mining - Cranes
0.39%	0.25%	0.25%	0.44%	0.44%	
0.008497863	0.147911806	0.000173810	0.005814212	0.005349075	Industrial - Other General Industrial
6.38%	7.47%	7.46%	6.32%	6.32%	
0.095849286	1.616879051	0.001899980	0.060598702	0.055750806	Oil Drilling - Drilling Rig
71.96%	81.62%	81.52%	65.87%	65.87%	

0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.006074679	0.024972123	0.000032623	0.003128089	0.002877842	3.136797036	0.000000393	0.000000176	3.136859877
0.004533218	0.036625780	0.000043039	0.004764100	0.004382972	4.138316874	0.000000518	0.000000232	4.138399779
0.012363323	0.099888492	0.000117378	0.012992999	0.011953559	11.286318748	0.000001413	0.000000634	11.286544851
0.010197436	0.177494167	0.000208572	0.006977054	0.006418890	20.054920237	0.000002512	0.000001126	20.055322004
0.010664498	0.089492857	0.000105162	0.009005811	0.008285346	10.111724489	0.000001266	0.000000568	10.111927061
0.036694128	0.618992262	0.000727372	0.023199093	0.021343166	69.939427718	0.000008759	0.000003926	69.940828837
0.036141506	0.609670089	0.000716418	0.022849709	0.021021733	68.886123084	0.000008627	0.000003867	68.887503101
0.042183511	0.711592510	0.000836186	0.026669640	0.024536069	80.402253752	0.000010069	0.000004514	80.403864476

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR	STARTMO	STARTDAY	ENDYR
IPK_4AB0FNTG	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNTG	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	16.00	7	01/28/2015	2015	2015	1	13	2015
IPK_4AB0FNTH	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	16.00	7	01/28/2015	2015	2015	1	13	2015
IPK_4AB0FNTH	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	16.00	7	01/28/2015	2015	2015	1	13	2015
IPK_4AB0FNTH	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	15.00	7	01/27/2015	2015	2015	1	13	2015
IPK_4AB0FNTH	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	15.00	7	01/27/2015	2015	2015	1	13	2015
IPK_4AB0FNTI	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	15.00	7	01/27/2015	2015	2015	1	13	2015
IPK_4AB0FNTI	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	15.00	7	01/27/2015	2015	2015	1	13	2015
IPK_4AB0FNTI	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	15.00	7	01/27/2015	2015	2015	1	13	2015
IPK_4AB0FNTR	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNTR	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	19.00	7	01/31/2015	2015	2015	1	13	2015
IPK_4AB0FNTR	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	19.00	7	01/31/2015	2015	2015	1	13	2015
IPK_4AB0FNTR	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	19.00	7	01/31/2015	2015	2015	1	13	2015
IPK_4AB0FNTS	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	18.00	7	01/30/2015	2015	2015	1	13	2015
IPK_4AB0FNTS	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	18.00	7	01/30/2015	2015	2015	1	13	2015
IPK_4AB0FNTS	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	18.00	7	01/30/2015	2015	2015	1	13	2015
IPK_4AB0FNTS	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	18.00	7	01/30/2015	2015	2015	1	13	2015
IPK_4AB0FNTS	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	18.00	7	01/30/2015	2015	2015	1	13	2015

ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP	CATLOAD
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
1	28	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
1	28	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
1	28	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
1	27	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
1	27	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	144.00	175	121	175	150.479170000	0.502500000
1	27	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	996.00	1000	751	9999	769.666670000	0.502500000
1	27	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	981.00	1000	751	9999	769.666670000	0.502500000
1	27	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1145.00	1000	751	9999	769.666670000	0.502500000
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
1	31	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
1	31	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
1	31	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
1	30	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
1	30	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	144.00	175	121	175	150.479170000	0.502500000
1	30	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	996.00	1000	751	9999	769.666670000	0.502500000
1	30	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	981.00	1000	751	9999	769.666670000	0.502500000
1	30	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1145.00	1000	751	9999	769.666670000	0.502500000

CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	TOGGBHP	PMGBHP	NOXGBHP	ROGGBHP	COGBHP	SOXGBHP	PM10GBHP	PM25GBHP	CO2GBHP	CH4GBHP	N2OGBHP
0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716
0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716
0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716
0.367000000	1249.795948400	3.920185384	4899.431810100	0.605300744	0.427684380	7.200925017	0.506455132	4.250000000	0.004994136	0.427684380	0.393469630	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716

0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716
0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716
0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716
0.367000000	1249.795948400	3.920185384	4899.431810100	0.605300744	0.427684380	7.200925017	0.506455132	4.250000000	0.004994136	0.427684380	0.393469630	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716

TOGLBMG	PMLBMG	NOXLBMG	ROGLBMG	COLBMG	SOXLBMG	PM10LBMG	PM25LBMG	CO2LBMG	CH4LBMG	N2OLBMG	TOGLBD	PMLBD	NOXLBD
22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292
47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818
12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605
25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839	16.731852172	22508.966000000	1.278659612	0.573192240	2.124317372	1.500968515	25.271817796
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	7.309296041	3.866515546	131.967908860
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	7.199216281	3.808284890	129.980440360
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	8.402754987	4.444940060	151.710096030

22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292
47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818
12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605
25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839	16.731852172	22508.966000000	1.278659612	0.573192240	2.124317372	1.500968515	25.271817796
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	7.309296041	3.866515546	131.967908860
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	7.199216281	3.808284890	129.980440360
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	8.402754987	4.444940060	151.710096030

ROGLBD	COLBD	SOXLBD	PM10LBD	PM25LBD	CO2LBD	CH4LBD	N2OLBD	CO2ELBD	TOGLB	PMLB	NOXLB	ROGLB
0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051
0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	17.871467673	7.699911105	79.902754003	14.953057002
0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	13.336549703	11.727014674	137.922152540	11.158691137
1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	36.372408282	31.982767293	376.151325100	30.432794009
1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	30.469211487	17.442634558	461.994924080	25.493589251
1.777416345	14.915476190	0.017527039	1.500968515	1.380891034	1857.680131100	0.000232647	0.000104290	1857.717346500	31.864760578	22.514527729	379.077266940	26.661245175
6.115687997	103.165376980	0.121228688	3.866515546	3.557194302	12848.954240000	0.001609141	0.000721339	12849.211647000	109.639440610	57.997733187	1979.518633000	91.735319960
6.023584262	101.611681550	0.119402955	3.808284890	3.503622099	12655.445893000	0.001584907	0.000710476	12655.699423000	107.988244220	57.124273350	1949.706605400	90.353763936
7.030585097	118.598751650	0.139364305	4.444940060	4.089344855	14771.137153000	0.001849866	0.000829250	14771.433068000	126.041324800	66.674100903	2275.651440500	105.458776460

0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051
0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	21.222367861	9.143644438	94.884520378	17.756755190
0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	15.837152773	13.925829925	163.782556140	13.250945725
1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	43.192234834	37.979536160	446.679698550	36.138942886
1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	36.563053784	20.931161470	554.393908890	30.592307101
1.777416345	14.915476190	0.017527039	1.500968515	1.380891034	1857.680131100	0.000232647	0.000104290	1857.717346500	38.237712693	27.017433275	454.892720330	31.993494211
6.115687997	103.165376980	0.121228688	3.866515546	3.557194302	12848.954240000	0.001609141	0.000721339	12849.211647000	131.567328730	69.597279824	2375.422359500	110.082383950
6.023584262	101.611681550	0.119402955	3.808284890	3.503622099	12655.445893000	0.001584907	0.000710476	12655.699423000	129.585893060	68.549128020	2339.647926400	108.424516720
7.030585097	118.598751650	0.139364305	4.444940060	4.089344855	14771.137153000	0.001849866	0.000829250	14771.433068000	151.249589760	80.008921083	2730.781728600	126.550531750

COLB	SOXLB	PM10LB	PM25LB	CO2LB	CH4LB	N2OLB	CO2ELB	TOGTON	PMTON	NOXTON
									Emissions for Engines <75 hp	0.032460494
									% of total	1.06%
									Emissions for Engines 75<hp<120	0.208842350
									% of total	6.81%
									Emissions for Engines 121<hp<175	0.151630907
									% of total	4.94%
									Emissions for Engines 175<hp<250	0.008907161
									% of total	0.29%
									Emissions for Engines 251<hp<750	0.184797970
									% of total	6.02%
									Emissions for Engines hp >750	2.481950671
									% of total	80.88%
9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
61.469841270	0.080302234	7.699911105	7.083918217	8511.184469700	0.001065900	0.000477817	8511.354976900	0.008935734	0.003849956	0.039951377
90.155767196	0.105941215	11.727014674	10.788853500	11228.644348000	0.001406221	0.000630375	11228.869295000	0.006668275	0.005863507	0.068961076
245.879365080	0.288930586	31.982767293	29.424145909	30623.575494000	0.003835149	0.001719205	30624.188985000	0.018186204	0.015991384	0.188075663
443.735416670	0.521429416	17.442634558	16.047223794	55265.983899000	0.006921246	0.003102627	55267.091060000	0.015234606	0.008721317	0.230997462
223.732142860	0.262905588	22.514527729	20.713365511	27865.201966000	0.003489704	0.001564350	27865.760198000	0.015932380	0.011257264	0.189538633
1547.480654800	1.818430317	57.997733187	53.357914532	192734.313600000	0.024137117	0.010820087	192738.174700000	0.054819720	0.028998867	0.989759316
1524.175223200	1.791044318	57.124273350	52.554331482	189831.688390000	0.023773606	0.010657134	189835.491350000	0.053994122	0.028562137	0.974853303
1778.981274800	2.090464571	66.674100903	61.340172831	221567.057300000	0.027747991	0.012438755	221571.496020000	0.063020662	0.033337050	1.137825720

									Emissions for Engines <75 hp	0.039951377
									% of total	1.04%
									Emissions for Engines 75<hp<120	0.257036739
									% of total	6.71%
									Emissions for Engines 121<hp<175	0.189538633
									% of total	4.95%
									Emissions for Engines 175<hp<250	0.008907161
									% of total	0.23%
									Emissions for Engines 251<hp<750	0.230997462
									% of total	6.03%
									Emissions for Engines hp >750	3.102438339
									% of total	81.03%
9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
72.995436508	0.095358902	9.143644438	8.412152883	10107.031558000	0.001265756	0.000567408	10107.234035000	0.010611184	0.004571822	0.047442260
107.059973540	0.125805192	13.925829925	12.811763531	13334.015163000	0.001669888	0.000748570	13334.282287000	0.007918576	0.006962915	0.081891278
291.981746030	0.343105070	37.979536160	34.941173267	36365.495899000	0.004554240	0.002041556	36366.224420000	0.021596117	0.018989768	0.223339849
532.482500000	0.625715299	20.931161470	19.256668552	66319.180679000	0.008305495	0.003723153	66320.509272000	0.018281527	0.010465581	0.277196954
268.478571430	0.315486706	27.017433275	24.856038613	33438.242359000	0.004187644	0.001877220	33438.912238000	0.019118856	0.013508717	0.227446360
1856.976785700	2.182116380	69.597279824	64.029497438	231281.176320000	0.028964541	0.012984104	231285.809640000	0.065783664	0.034798640	1.187711180
1829.010267900	2.149253182	68.549128020	63.065197778	227798.026070000	0.028528328	0.012788561	227802.589620000	0.064792947	0.034274564	1.169823963
2134.777529800	2.508557486	80.008921083	73.608207397	265880.468760000	0.033297589	0.014926506	265885.795220000	0.075624795	0.040004461	1.365390864

Emissions for Engines <75 hp	0.047442260
% of total	1.03%

ROGTON	COTON	SOXTON	PM10TON	PM25TON	CO2TONNE	CH4TONNE	N2OTONNE	CO2ETONNE
0.006074679	0.024972123	0.000032623	0.003128089	0.002877842	Industrial - Other General Industrial			
3.81%	1.05%	1.17%	2.84%	2.84%				
0.016896541	0.136514272	0.000160417	0.017757099	0.016336531	Industrial - Other General Industrial			
10.60%	5.75%	5.74%	16.14%	16.14%				
0.010664498	0.089492857	0.000105162	0.009005811	0.008285346	Oil Drilling - Drilling Rig			
6.69%	3.77%	3.77%	8.19%	8.19%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	Construction and Mining - Cranes			
0.33%	0.21%	0.21%	0.37%	0.37%				
0.010197436	0.177494167	0.000208572	0.006977054	0.006418890	Industrial - Other General Industrial			
6.40%	7.48%	7.47%	6.34%	6.34%				
0.115019145	1.940254861	0.002279976	0.072718442	0.066900968	Oil Drilling - Drilling Rig			
72.17%	81.74%	81.64%	66.11%	66.11%				

0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.007476529	0.030734921	0.000040151	0.003849956	0.003541959	3.860673275	0.000000483	0.000000217	3.860750618
0.005579346	0.045077884	0.000052971	0.005863507	0.005394427	5.093313076	0.000000638	0.000000286	5.093415112
0.015216397	0.122939683	0.000144465	0.015991384	0.014712073	13.890853844	0.000001740	0.000000780	13.891132124
0.012746795	0.221867708	0.000260715	0.008721317	0.008023612	25.068650297	0.000003139	0.000001407	25.069152505
0.013330623	0.111866071	0.000131453	0.011257264	0.010356683	12.639655612	0.000001583	0.000000710	12.639908826
0.045867660	0.773740327	0.000909215	0.028998867	0.026678957	87.424284648	0.000010949	0.000004908	87.426036046
0.045176882	0.762087612	0.000895522	0.028562137	0.026277166	86.107653855	0.000010784	0.000004834	86.109378876
0.052729388	0.889490637	0.001045232	0.033337050	0.030670086	100.502817190	0.000012586	0.000005642	100.504830590
0.007476529	0.030734921	0.000040151	0.003849956	0.003541959	Industrial - Other General Industrial			
3.76%	1.04%	1.15%	2.81%	2.81%				
0.020795743	0.168017567	0.000197436	0.021854891	0.020106500	Industrial - Other General Industrial			
10.47%	5.67%	5.66%	15.95%	15.95%				
0.013330623	0.111866071	0.000131453	0.011257264	0.010356683	Oil Drilling - Drilling Rig			
6.71%	3.78%	3.77%	8.22%	8.22%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	Construction and Mining - Cranes			
0.26%	0.17%	0.17%	0.30%	0.30%				
0.012746795	0.221867708	0.000260715	0.008721317	0.008023612	Industrial - Other General Industrial			
6.42%	7.49%	7.48%	6.37%	6.37%				
0.143773930	2.425318576	0.002849969	0.090898054	0.083626209	Oil Drilling - Drilling Rig			
72.38%	81.86%	81.77%	66.35%	66.35%				

0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.008878378	0.036497718	0.000047679	0.004571822	0.004206076	4.584549515	0.000000574	0.000000257	4.584641358
0.006625473	0.053529987	0.000062903	0.006962915	0.006405882	6.048309278	0.000000757	0.000000340	6.048430446
0.018069471	0.145990873	0.000171553	0.018989768	0.017470587	16.495388940	0.000002066	0.000000926	16.495719397
0.015296154	0.266241250	0.000312858	0.010465581	0.009628334	30.082380356	0.000003767	0.000001689	30.082983006
0.015996747	0.134239286	0.000157743	0.013508717	0.012428019	15.167586734	0.000001900	0.000000852	15.167890591
0.055041192	0.928488393	0.001091058	0.034798640	0.032014749	104.909141580	0.000013138	0.000005890	104.911243250
0.054212258	0.914505134	0.001074627	0.034274564	0.031532599	103.329184630	0.000012940	0.000005801	103.331254650
0.063275266	1.067388765	0.001254279	0.040004461	0.036804104	120.603380630	0.000015104	0.000006771	120.605796710
0.008878378	0.036497718	0.000047679	0.004571822	0.004206076	Industrial - Other General Industrial			
3.73%	1.03%	1.14%	2.79%	2.79%				

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR	STARTMO	STARTDAY	ENDYR
IPK_4AB0FNU1	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNU1	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	24.00	7	02/05/2015	2015	2015	1	13	2015
IPK_4AB0FNU1	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	24.00	7	02/05/2015	2015	2015	1	13	2015
IPK_4AB0FNU2	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	24.00	7	02/05/2015	2015	2015	1	13	2015
IPK_4AB0FNU2	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	23.00	7	02/04/2015	2015	2015	1	13	2015
IPK_4AB0FNU2	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	23.00	7	02/04/2015	2015	2015	1	13	2015
IPK_4AB0FNU2	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	23.00	7	02/04/2015	2015	2015	1	13	2015
IPK_4AB0FNU2	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	23.00	7	02/04/2015	2015	2015	1	13	2015
IPK_4AB0FNU2	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	23.00	7	02/04/2015	2015	2015	1	13	2015
IPK_4AB0FNUB	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNUB	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	29.00	7	02/10/2015	2015	2015	1	13	2015
IPK_4AB0FNUB	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	29.00	7	02/10/2015	2015	2015	1	13	2015
IPK_4AB0FNUC	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	29.00	7	02/10/2015	2015	2015	1	13	2015
IPK_4AB0FNUC	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	28.00	7	02/09/2015	2015	2015	1	13	2015
IPK_4AB0FNUC	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	28.00	7	02/09/2015	2015	2015	1	13	2015
IPK_4AB0FNUC	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	28.00	7	02/09/2015	2015	2015	1	13	2015
IPK_4AB0FNUC	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	28.00	7	02/09/2015	2015	2015	1	13	2015
IPK_4AB0FNUD	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	28.00	7	02/09/2015	2015	2015	1	13	2015

ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP	CATLOAD
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
2	5	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
2	5	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
2	5	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
2	4	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
2	4	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	144.00	175	121	175	150.479170000	0.502500000
2	4	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	996.00	1000	751	9999	769.666670000	0.502500000
2	4	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	981.00	1000	751	9999	769.666670000	0.502500000
2	4	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1145.00	1000	751	9999	769.666670000	0.502500000
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
2	10	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
2	10	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
2	10	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
2	9	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
2	9	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	158.00	175	121	175	150.479170000	0.502500000
2	9	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1094.00	1000	751	9999	769.666670000	0.502500000
2	9	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	962.00	1000	751	9999	769.666670000	0.502500000
2	9	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1898.00	1000	751	9999	769.666670000	0.502500000

CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	TOGGBHP	PMGBHP	NOXGBHP	ROGGBHP	COGBHP	SOXGBHP	PM10GBHP	PM25GBHP	CO2GBHP	CH4GBHP	N2OGBHP
0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716
0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716
0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716
0.367000000	1249.795948400	3.920185384	4899.431810100	0.605300744	0.427684380	7.200925017	0.506455132	4.250000000	0.004994136	0.427684380	0.393469630	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716

0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716
0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716
0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716
0.367000000	1249.795948400	3.920185384	4899.431810100	0.605300744	0.427684380	7.200925017	0.506455132	4.250000000	0.004994136	0.427684380	0.393469630	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716

TOGLBMG	PMLBMG	NOXLBMG	ROGLBMG	COLBMG	SOXLBMG	PM10LBMG	PM25LBMG	CO2LBMG	CH4LBMG	N2OLBMG	TOGLBD	PMLBD	NOXLBD
22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292
47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818
12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605
25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839	16.731852172	22508.966000000	1.278659612	0.573192240	2.124317372	1.500968515	25.271817796
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	7.309296041	3.866515546	131.967908860
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	7.199216281	3.808284890	129.980440360
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	8.402754987	4.444940060	151.710096030

22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292
47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818
12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605
25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839	16.731852172	22508.966000000	1.278659612	0.573192240	2.330848227	1.646896010	27.728800082
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	8.028483804	4.246955830	144.952703110
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	7.059781919	3.734526059	127.462980250
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	13.928758921	7.368118982	251.481015080

ROGLBD	COLBD	SOXLBD	PM10LBD	PM25LBD	CO2LBD	CH4LBD	N2OLBD	CO2ELBD	TOGLB	PMLB	NOXLB	ROGLB
0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051
0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	26.807201509	11.549866658	119.854131000	22.429585503
0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	20.004824555	17.590522011	206.883228800	16.738036705
1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	54.558612422	47.974150939	564.226987640	45.649191014
1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	46.719457613	26.745372989	708.392216920	39.090170185
1.777416345	14.915476190	0.017527039	1.500968515	1.380891034	1857.680131100	0.000232647	0.000104290	1857.717346500	48.859299553	34.522275851	581.251809310	40.880575936
6.115687997	103.165376980	0.121228688	3.866515546	3.557194302	12848.954240000	0.001609141	0.000721339	12849.211647000	168.113808940	88.929857553	3035.261903900	140.660823940
6.023584262	101.611681550	0.119402955	3.808284890	3.503622099	12655.445893000	0.001584907	0.000710476	12655.699423000	165.581974470	87.590552470	2989.550128200	138.542438040
7.030585097	118.598751650	0.139364305	4.444940060	4.089344855	14771.137153000	0.001849866	0.000829250	14771.433068000	193.263364690	102.233621380	3489.332208800	161.703457240

0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051
0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	32.392035157	13.956088879	144.823741630	27.102415816
0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	24.172496337	21.255214097	249.983901470	20.225127685
1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	65.924990010	57.968765718	681.774276740	55.159439142
1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	56.875861442	32.559584509	862.390524940	47.588033268
1.950220712	16.365591931	0.019231057	1.646896010	1.515144329	2038.287921600	0.000255265	0.000114429	2038.328755200	65.263750369	46.113088274	776.406402300	54.606179933
6.717432399	113.316187170	0.133156812	4.246955830	3.907199364	14113.208773000	0.001767470	0.000792314	14113.491508000	224.797546510	118.914763250	4058.675687100	188.088107160
5.906919532	99.643667328	0.117090359	3.734526059	3.435763975	12410.335320000	0.001554211	0.000696715	12410.583940000	197.673893730	104.566729660	3568.963446900	165.393746880
11.654192589	196.594262570	0.231016114	7.368118982	6.778669463	24485.256172000	0.003066416	0.001374600	24485.746693000	390.005249790	206.307331490	7041.468422400	326.317392500

COLB	SOXLB	PM10LB	PM25LB	CO2LB	CH4LB	N2OLB	CO2ELB	TOGTON	PMTON	NOXTON
									Emissions for Engines 75<hp<120	0.305231127
									% of total	6.65%
									Emissions for Engines 121<hp<175	0.227446360
									% of total	4.96%
									Emissions for Engines 175<hp<250	0.008907161
									% of total	0.19%
									Emissions for Engines 251<hp<750	0.277196954
									% of total	6.04%
									Emissions for Engines hp >750	3.722926007
									% of total	81.12%
9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
92.204761905	0.120453350	11.549866658	10.625877326	12766.776705000	0.001598850	0.000716726	12767.032465000	0.013403601	0.005774933	0.059927066
135.233650790	0.158911822	17.590522011	16.183280250	16842.966522000	0.002109332	0.000945563	16843.303942000	0.010002412	0.008795261	0.103441614
368.819047620	0.433395878	47.974150939	44.136218864	45935.363241000	0.005752724	0.002578807	45936.283478000	0.027279306	0.023987075	0.282113494
680.394305560	0.799525105	26.745372989	24.605743150	84741.175312000	0.010612577	0.004757362	84742.872958000	0.023359729	0.013372686	0.354196108
343.055952380	0.403121902	34.522275851	31.760493783	42726.643014000	0.005350879	0.002398670	42727.498971000	0.024429650	0.017261138	0.290625905
2372.803670600	2.788259819	88.929857553	81.815468949	295525.947520000	0.037010246	0.016590800	295531.867880000	0.084056904	0.044464929	1.517630952
2337.068675600	2.746267955	87.590552470	80.583308272	291075.255540000	0.036452863	0.016340939	291081.086740000	0.082790987	0.043795276	1.494775064
2727.771288000	3.205379009	102.233621380	94.054931673	339736.154520000	0.042546920	0.019072757	339742.960560000	0.096631682	0.051116811	1.744666104

Emissions for Engines <75 hp	0.059927066
% of total	1.02%
Emissions for Engines 75<hp<120	0.385555108
% of total	6.58%
Emissions for Engines 121<hp<175	0.290625905
% of total	4.96%
Emissions for Engines 175<hp<250	0.008907161
% of total	0.15%
Emissions for Engines 251<hp<750	0.354196108
% of total	6.05%
Emissions for Engines hp >750	4.757072120
% of total	81.23%

9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
111.414087300	0.145547798	13.956088879	12.839601768	15426.521851000	0.001931943	0.000866044	15426.830896000	0.016196018	0.006978044	0.072411871
163.407328040	0.192018452	21.255214097	19.554796969	20351.917880000	0.002548776	0.001142555	20352.325597000	0.012086248	0.010627607	0.124991951
445.656349210	0.523686686	57.968765718	53.331264461	55505.230583000	0.006951208	0.003116059	55506.342536000	0.032962495	0.028984383	0.340887138
828.306111110	0.973334910	32.559584509	29.954817748	103163.169940000	0.012919659	0.005791571	103165.236640000	0.028437931	0.016279792	0.431195262
458.236574070	0.538469593	46.113088274	42.424041212	57072.061804000	0.007147430	0.003204020	57073.205147000	0.032631875	0.023056544	0.388203201
3172.853240700	3.728390728	118.914763250	109.401582190	395169.845660000	0.049489168	0.022184800	395177.762220000	0.112398773	0.059457382	2.029337844
2790.022685200	3.278530055	104.566729660	96.201391288	347489.388960000	0.043517897	0.019508023	347496.350320000	0.098836947	0.052283365	1.784481723
5504.639351900	6.468451189	206.307331490	189.802744970	685587.172810000	0.085859635	0.038488802	685600.907390000	0.195002625	0.103153666	3.520734211

Emissions for Engines <75 hp	0.072411871
% of total	0.83%
Emissions for Engines 75<hp<120	0.465879089
% of total	5.35%
Emissions for Engines 121<hp<175	0.388203201

ROGTON	COTON	SOXTON	PM10TON	PM25TON	CO2TONNE	CH4TONNE	N2OTONNE	CO2ETONNE
0.024694944	0.199520860	0.000234456	0.025952683	0.023876469	Industrial - Other General Industrial			
10.38%	5.62%	5.61%	15.83%	15.83%				
0.015996747	0.134239286	0.000157743	0.013508717	0.012428019	Oil Drilling - Drilling Rig			
6.72%	3.78%	3.78%	8.24%	8.24%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	Construction and Mining - Cranes			
0.22%	0.14%	0.14%	0.25%	0.25%				
0.015296154	0.266241250	0.000312858	0.010465581	0.009628334	Industrial - Other General Industrial			
6.43%	7.50%	7.49%	6.38%	6.38%				
0.172528716	2.910382292	0.003419964	0.109077665	0.100351452	Oil Drilling - Drilling Rig			
72.52%	81.94%	81.85%	66.52%	66.52%				

0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.011214793	0.046102381	0.000060227	0.005774933	0.005312939	5.791009913	0.000000725	0.000000325	5.791125926
0.008369018	0.067616825	0.000079456	0.008795261	0.008091640	7.639969614	0.000000957	0.000000429	7.640122668
0.022824596	0.184409524	0.000216698	0.023987075	0.022068109	20.836280766	0.000002609	0.000001170	20.836698186
0.019545085	0.340197153	0.000399763	0.013372686	0.012302872	38.438597121	0.000004814	0.000002158	38.439367174
0.020440288	0.171527976	0.000201561	0.017261138	0.015880247	19.380805271	0.000002427	0.000001088	19.381193533
0.070330412	1.186401835	0.001394130	0.044464929	0.040907734	134.050569790	0.000016788	0.000007526	134.053255270
0.069271219	1.168534338	0.001373134	0.043795276	0.040291654	132.031735910	0.000016535	0.000007412	132.034380940
0.080851729	1.363885644	0.001602690	0.051116811	0.047027466	154.104319690	0.000019299	0.000008651	154.107406910

0.011214793	0.046102381	0.000060227	0.005774933	0.005312939	Industrial - Other General Industrial			
3.70%	1.02%	1.13%	2.76%	2.76%				
0.031193614	0.252026349	0.000296154	0.032782336	0.030159749	Industrial - Other General Industrial			
10.28%	5.56%	5.55%	15.69%	15.69%				
0.020440288	0.171527976	0.000201561	0.017261138	0.015880247	Oil Drilling - Drilling Rig			
6.74%	3.78%	3.78%	8.26%	8.26%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	Construction and Mining - Cranes			
0.17%	0.11%	0.11%	0.19%	0.19%				
0.019545085	0.340197153	0.000399763	0.013372686	0.012302872	Industrial - Other General Industrial			
6.44%	7.50%	7.50%	6.40%	6.40%				
0.220453360	3.718821817	0.004369954	0.139377016	0.128226854	Oil Drilling - Drilling Rig			
72.67%	82.03%	81.93%	66.70%	66.70%				

0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.013551208	0.055707044	0.000072774	0.006978044	0.006419801	6.997470312	0.000000876	0.000000393	6.997610494
0.010112564	0.081703664	0.000096009	0.010627607	0.009777398	9.231629951	0.000001156	0.000000518	9.231814891
0.027579720	0.222828175	0.000261843	0.028984383	0.026665632	25.177172592	0.000003153	0.000001413	25.177676974
0.023794017	0.414153056	0.000486667	0.016279792	0.014977409	46.794813887	0.000005860	0.000002627	46.795751342
0.027303090	0.229118287	0.000269235	0.023056544	0.021212021	25.887887234	0.000003242	0.000001453	25.888405855
0.094044054	1.586426620	0.001864195	0.059457382	0.054700791	179.249041990	0.000022448	0.000010063	179.252632940
0.082696873	1.395011343	0.001639265	0.052283365	0.048100696	157.621186830	0.000019740	0.000008849	157.624344510
0.163158696	2.752319676	0.003234226	0.103153666	0.094901372	310.982341590	0.000038946	0.000017459	310.988571590

0.013551208	0.055707044	0.000072774	0.006978044	0.006419801	Industrial - Other General Industrial			
3.06%	0.83%	0.92%	2.32%	2.32%				
0.037692284	0.304531839	0.000357852	0.039611990	0.036443030	Industrial - Other General Industrial			
8.51%	4.52%	4.51%	13.15%	13.15%				
0.027303090	0.229118287	0.000269235	0.023056544	0.021212021	Oil Drilling - Drilling Rig			

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR	STARTMO	STARTDAY	ENDYR
IPK_4AB0FNUL	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNUL	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	36.00	7	02/17/2015	2015	2015	1	13	2015
IPK_4AB0FNUL	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	36.00	7	02/17/2015	2015	2015	1	13	2015
IPK_4AB0FNUM	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	36.00	7	02/17/2015	2015	2015	1	13	2015
IPK_4AB0FNUM	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	35.00	7	02/16/2015	2015	2015	1	13	2015
IPK_4AB0FNUM	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	35.00	7	02/16/2015	2015	2015	1	13	2015
IPK_4AB0FNUM	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	35.00	7	02/16/2015	2015	2015	1	13	2015
IPK_4AB0FNUN	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	35.00	7	02/16/2015	2015	2015	1	13	2015
IPK_4AB0FNUN	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	35.00	7	02/16/2015	2015	2015	1	13	2015
IPK_4AB0FNUV	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNUV	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	44.00	7	02/25/2015	2015	2015	1	13	2015
IPK_4AB0FNUV	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	44.00	7	02/25/2015	2015	2015	1	13	2015
IPK_4AB0FNUW	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	44.00	7	02/25/2015	2015	2015	1	13	2015
IPK_4AB0FNUW	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	43.00	7	02/24/2015	2015	2015	1	13	2015
IPK_4AB0FNUW	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	43.00	7	02/24/2015	2015	2015	1	13	2015
IPK_4AB0FNUW	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	43.00	7	02/24/2015	2015	2015	1	13	2015
IPK_4AB0FNUX	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	43.00	7	02/24/2015	2015	2015	1	13	2015
IPK_4AB0FNUX	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	43.00	7	02/24/2015	2015	2015	1	13	2015

ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP	CATLOAD
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
2	17	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
2	17	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
2	17	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
2	16	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
2	16	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	158.00	175	121	175	150.479170000	0.502500000
2	16	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1094.00	1000	751	9999	769.666670000	0.502500000
2	16	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	962.00	1000	751	9999	769.666670000	0.502500000
2	16	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1898.00	1000	751	9999	769.666670000	0.502500000
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
2	25	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
2	25	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
2	25	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
2	24	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
2	24	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	158.00	175	121	175	150.479170000	0.502500000
2	24	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1094.00	1000	751	9999	769.666670000	0.502500000
2	24	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	962.00	1000	751	9999	769.666670000	0.502500000
2	24	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1898.00	1000	751	9999	769.666670000	0.502500000

CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	TOGGBHP	PMGBHP	NOXGBHP	ROGGBHP	COGBHP	SOXGBHP	PM10GBHP	PM25GBHP	CO2GBHP	CH4GBHP	N2OGBHP
0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716
0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716
0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716
0.367000000	1249.795948400	3.920185384	4899.431810100	0.605300744	0.427684380	7.200925017	0.506455132	4.250000000	0.004994136	0.427684380	0.393469630	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716

0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716
0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716
0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716
0.367000000	1249.795948400	3.920185384	4899.431810100	0.605300744	0.427684380	7.200925017	0.506455132	4.250000000	0.004994136	0.427684380	0.393469630	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716

TOGLBMG	PMLBMG	NOXLBMG	ROGLBMG	COLBMG	SOXLBMG	PM10LBMG	PM25LBMG	CO2LBMG	CH4LBMG	N2OLBMG	TOGLBD	PMLBD	NOXLBD
22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292
47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818
12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605
25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839	16.731852172	22508.966000000	1.278659612	0.573192240	2.330848227	1.646896010	27.728800082
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	8.028483804	4.246955830	144.952703110
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	7.059781919	3.734526059	127.462980250
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	13.928758921	7.368118982	251.481015080

22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292
47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818
12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605
25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839	16.731852172	22508.966000000	1.278659612	0.573192240	2.330848227	1.646896010	27.728800082
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	8.028483804	4.246955830	144.952703110
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	7.059781919	3.734526059	127.462980250
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	13.928758921	7.368118982	251.481015080

ROGLBD	COLBD	SOXLBD	PM10LBD	PM25LBD	CO2LBD	CH4LBD	N2OLBD	CO2ELBD	TOGLB	PMLB	NOXLB	ROGLB
0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051
0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	40.210802264	17.324799987	179.781196510	33.644378254
0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	30.007236832	26.385783017	310.324843200	25.107055058
1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	81.837918634	71.961226409	846.340481460	68.473786521
1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	71.094826802	40.699480636	1077.988156200	59.485041585
1.950220712	16.365591931	0.019231057	1.646896010	1.515144329	2038.287921600	0.000255265	0.000114429	2038.328755200	81.579687961	57.641360343	970.508002870	68.257724917
6.717432399	113.316187170	0.133156812	4.246955830	3.907199364	14113.208773000	0.001767470	0.000792314	14113.491508000	280.996933130	148.643454060	5073.344608800	235.110133950
5.906919532	99.643667328	0.117090359	3.734526059	3.435763975	12410.335320000	0.001554211	0.000696715	12410.583940000	247.092367160	130.708412080	4461.204308700	206.742183600
11.654192589	196.594262570	0.231016114	7.368118982	6.778669463	24485.256172000	0.003066416	0.001374600	24485.746693000	487.506562240	257.884164370	8801.835527900	407.896740620

0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051
0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	49.146536100	21.174755540	219.732573510	41.120906755
0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	36.675511684	32.249290354	379.285919470	30.686400626
1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	100.024122770	87.952610055	1034.416144000	83.690183525
1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	87.345072928	50.002219067	1324.385449000	73.081622519
1.950220712	16.365591931	0.019231057	1.646896010	1.515144329	2038.287921600	0.000255265	0.000114429	2038.328755200	100.226473780	70.816528421	1192.338403500	83.859490612
6.717432399	113.316187170	0.133156812	4.246955830	3.907199364	14113.208773000	0.001767470	0.000792314	14113.491508000	345.224803560	182.619100710	6232.966233700	288.849593140
5.906919532	99.643667328	0.117090359	3.734526059	3.435763975	12410.335320000	0.001554211	0.000696715	12410.583940000	303.570622510	160.584620550	5480.908150700	253.997539860
11.654192589	196.594262570	0.231016114	7.368118982	6.778669463	24485.256172000	0.003066416	0.001374600	24485.746693000	598.936633610	316.829116220	10813.683649000	501.130281340

COLB	SOXLB	PM10LB	PM25LB	CO2LB	CH4LB	N2OLB	CO2ELB	TOGTON	PMTON	NOXTON
									% of total	4.46%
									Emissions for Engines 175<hp<250	0.008907161
									% of total	0.10%
									Emissions for Engines 251<hp<750	0.431195262
									% of total	4.96%
									Emissions for Engines hp >750	7.334553778
									% of total	84.29%
9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
138.307142860	0.180680026	17.324799987	15.938815988	19150.165057000	0.002398274	0.001075089	19150.548698000	0.020105401	0.008662400	0.089890598
202.850476190	0.238367733	26.385783017	24.274920375	25264.449782000	0.003163998	0.001418344	25264.955913000	0.015003618	0.013192892	0.155162422
553.228571430	0.650093818	71.961226409	66.204328296	68903.044861000	0.008629085	0.003868211	68904.425217000	0.040918959	0.035980613	0.423170241
1035.382638900	1.216668638	40.699480636	37.443522185	128953.962430000	0.016149573	0.007239464	128956.545810000	0.035547413	0.020349740	0.538994078
572.795717590	0.673086992	57.641360343	53.030051516	71340.077255000	0.008934288	0.004005026	71341.506433000	0.040789844	0.028820680	0.485254001
3966.066550900	4.660488410	148.643454060	136.751977740	493962.307070000	0.061861460	0.027730999	493972.202770000	0.140498467	0.074321727	2.536672304
3487.528356500	4.098162569	130.708412080	120.251739110	434361.736200000	0.054397372	0.024385029	434370.437900000	0.123546184	0.065354206	2.230602154
6880.799189800	8.085563987	257.884164370	237.253431220	856983.966020000	0.107324544	0.048111003	857001.134240000	0.243753281	0.128942082	4.400917764
									Emissions for Engines <75 hp	0.089890598
									% of total	0.83%
									Emissions for Engines 75<hp<120	0.578332663
									% of total	5.32%
									Emissions for Engines 121<hp<175	0.485254001
									% of total	4.46%
									Emissions for Engines 175<hp<250	0.008907161
									% of total	0.08%
									Emissions for Engines 251<hp<750	0.538994078
									% of total	4.96%
									Emissions for Engines hp >750	9.168192222
									% of total	84.35%
9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
169.042063490	0.220831142	21.174755540	19.480775097	23405.757292000	0.002931224	0.001313997	23406.226186000	0.024573268	0.010587378	0.109866287
247.928359790	0.291338340	32.249290354	29.669347125	30878.771956000	0.003867109	0.001733531	30879.390560000	0.018337756	0.016124645	0.189642960
676.168253970	0.794559110	87.952610055	80.916401251	84214.832608000	0.010546660	0.004727813	84216.519710000	0.050012061	0.043976305	0.517208072
1272.041527800	1.494764326	50.002219067	46.002041542	158429.153840000	0.019840904	0.008894198	158432.327700000	0.043672536	0.025001110	0.662192725
703.720453040	0.826935447	70.816528421	65.151206148	87646.380628000	0.010976411	0.004920460	87648.136475000	0.050113237	0.035408264	0.596169202
4872.596048300	5.725742903	182.619100710	168.009572650	606867.977260000	0.076001223	0.034069514	606880.134830000	0.172612402	0.091309550	3.116483117
4284.677695100	5.034885441	160.584620550	147.737850910	533644.418760000	0.066831057	0.029958750	533655.109420000	0.151785311	0.080292310	2.740454075
8453.553290300	9.933692898	316.829116220	291.482786920	1052866.015400000	0.131855869	0.059107803	1052887.107800000	0.299468317	0.158414558	5.406841824
									Emissions for Engines <75 hp	0.109866287
									% of total	0.82%
									Emissions for Engines 75<hp<120	0.706851032
									% of total	5.30%
									Emissions for Engines 121<hp<175	0.596169202
									% of total	4.47%
									Emissions for Engines 175<hp<250	0.008907161
									% of total	0.07%

ROGTON	COTON	SOXTON	PM10TON	PM25TON	CO2TONNE	CH4TONNE	N2OTONNE	CO2ETONNE
6.17%	3.40%	3.40%	7.65%	7.65%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	Construction and Mining - Cranes			
0.12%	0.07%	0.07%	0.13%	0.13%				
0.023794017	0.414153056	0.000486667	0.016279792	0.014977409	Industrial - Other General Industrial			
5.37%	6.14%	6.14%	5.40%	5.40%				
0.339899623	5.733757639	0.006737686	0.214894413	0.197702859	Oil Drilling - Drilling Rig			
76.77%	85.04%	84.96%	71.34%	71.34%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.016822189	0.069153571	0.000090340	0.008662400	0.007969408	8.686514870	0.000001088	0.000000488	8.686688889
0.012553528	0.101425238	0.000119184	0.013192892	0.012137460	11.459954421	0.000001435	0.000000643	11.460184002
0.034236893	0.276614286	0.000325047	0.035980613	0.033102164	31.254421149	0.000003914	0.000001755	31.255047279
0.029742521	0.517691319	0.000608334	0.020349740	0.018721761	58.493517359	0.000007325	0.000003284	58.494689178
0.034128862	0.286397859	0.000336543	0.028820680	0.026515026	32.359859043	0.000004053	0.000001817	32.360507318
0.117555067	1.983033275	0.002330244	0.074321727	0.068375989	224.061302490	0.000028060	0.000012579	224.065791180
0.103371092	1.743764178	0.002049081	0.065354206	0.060125870	197.026483540	0.000024675	0.000011061	197.030430630
0.203948370	3.440399595	0.004042782	0.128942082	0.118626716	388.727926990	0.000048682	0.000021823	388.735714490
0.016822189	0.069153571	0.000090340	0.008662400	0.007969408	Industrial - Other General Industrial			
3.04%	0.82%	0.91%	2.30%	2.30%				
0.046790421	0.378039524	0.000444231	0.049173505	0.045239624	Industrial - Other General Industrial			
8.46%	4.49%	4.48%	13.08%	13.08%				
0.034128862	0.286397859	0.000336543	0.028820680	0.026515026	Oil Drilling - Drilling Rig			
6.17%	3.40%	3.40%	7.66%	7.66%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	Construction and Mining - Cranes			
0.09%	0.06%	0.06%	0.11%	0.11%				
0.029742521	0.517691319	0.000608334	0.020349740	0.018721761	Industrial - Other General Industrial			
5.38%	6.15%	6.14%	5.41%	5.41%				
0.424874529	7.167197048	0.008422107	0.268618015	0.247128575	Oil Drilling - Drilling Rig			
76.85%	85.09%	85.01%	71.44%	71.44%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.020560453	0.084521032	0.000110416	0.010587378	0.009740388	10.616851507	0.000001330	0.000000596	10.617064198
0.015343200	0.123964180	0.000145669	0.016124645	0.014834674	14.006610959	0.000001754	0.000000786	14.006891558
0.041845092	0.338084127	0.000397280	0.043976305	0.040458201	38.199848071	0.000004784	0.000002145	38.200613340
0.036540811	0.636020764	0.000747382	0.025001110	0.023001021	71.863464184	0.000009000	0.000004034	71.864903847
0.041929745	0.351860227	0.000413468	0.035408264	0.032575603	39.756398253	0.000004979	0.000002232	39.757194705
0.144424797	2.436298024	0.002862871	0.091309550	0.084004786	275.275314480	0.000034474	0.000015454	275.280829160
0.126998770	2.142338848	0.002517443	0.080292310	0.073868925	242.061108350	0.000030315	0.000013589	242.065957640
0.250565141	4.226776645	0.004966846	0.158414558	0.145741393	477.580024580	0.000059810	0.000026811	477.589592090
0.020560453	0.084521032	0.000110416	0.010587378	0.009740388	Industrial - Other General Industrial			
3.03%	0.82%	0.91%	2.29%	2.29%				
0.057188292	0.462048307	0.000542949	0.060100950	0.055292875	Industrial - Other General Industrial			
8.43%	4.47%	4.46%	13.02%	13.02%				
0.041929745	0.351860227	0.000413468	0.035408264	0.032575603	Oil Drilling - Drilling Rig			
6.18%	3.40%	3.40%	7.67%	7.67%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	Construction and Mining - Cranes			
0.08%	0.05%	0.05%	0.09%	0.09%				

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR	STARTMO	STARTDAY	ENDYR
IPK_4AB0FNV5	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNV5	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	54.00	7	03/07/2015	2015	2015	1	13	2015
IPK_4AB0FNV6	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	54.00	7	03/07/2015	2015	2015	1	13	2015
IPK_4AB0FNV6	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	54.00	7	03/07/2015	2015	2015	1	13	2015
IPK_4AB0FNV6	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	53.00	7	03/06/2015	2015	2015	1	13	2015
IPK_4AB0FNV6	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	53.00	7	03/06/2015	2015	2015	1	13	2015
IPK_4AB0FNV7	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	53.00	7	03/06/2015	2015	2015	1	13	2015
IPK_4AB0FNV7	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	53.00	7	03/06/2015	2015	2015	1	13	2015
IPK_4AB0FNV7	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	53.00	7	03/06/2015	2015	2015	1	13	2015
IPK_4AB0FNVF	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNVF	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	66.00	7	03/19/2015	2015	2015	1	13	2015
IPK_4AB0FNVF	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	66.00	7	03/19/2015	2015	2015	1	13	2015
IPK_4AB0FNVG	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	66.00	7	03/19/2015	2015	2015	1	13	2015
IPK_4AB0FNVG	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	65.00	7	03/18/2015	2015	2015	1	13	2015
IPK_4AB0FNVG	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	65.00	7	03/18/2015	2015	2015	1	13	2015
IPK_4AB0FNVH	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	65.00	7	03/18/2015	2015	2015	1	13	2015
IPK_4AB0FNVH	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	65.00	7	03/18/2015	2015	2015	1	13	2015
IPK_4AB0FNVH	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	65.00	7	03/18/2015	2015	2015	1	13	2015

ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP	CATLOAD
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
3	7	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
3	7	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
3	7	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
3	6	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
3	6	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	158.00	175	121	175	150.479170000	0.502500000
3	6	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1094.00	1000	751	9999	769.666670000	0.502500000
3	6	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	962.00	1000	751	9999	769.666670000	0.502500000
3	6	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1898.00	1000	751	9999	769.666670000	0.502500000

1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
3	19	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
3	19	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
3	19	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
3	18	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
3	18	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	158.00	175	121	175	150.479170000	0.502500000
3	18	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1094.00	1000	751	9999	769.666670000	0.502500000
3	18	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	962.00	1000	751	9999	769.666670000	0.502500000
3	18	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1898.00	1000	751	9999	769.666670000	0.502500000

CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	TOGGBHP	PMGBHP	NOXGBHP	ROGGBHP	COGBHP	SOXGBHP	PM10GBHP	PM25GBHP	CO2GBHP	CH4GBHP	N2OGBHP
0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716
0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716
0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716
0.367000000	1249.795948400	3.920185384	4899.431810100	0.605300744	0.427684380	7.200925017	0.506455132	4.250000000	0.004994136	0.427684380	0.393469630	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716

0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716
0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716
0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716
0.367000000	1249.795948400	3.920185384	4899.431810100	0.605300744	0.427684380	7.200925017	0.506455132	4.250000000	0.004994136	0.427684380	0.393469630	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716

TOGLBMG	PMLBMG	NOXLBMG	ROGLBMG	COLBMG	SOXLBMG	PM10LBMG	PM25LBMG	CO2LBMG	CH4LBMG	N2OLBMG	TOGLBD	PMLBD	NOXLBD
22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292
47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818
12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605
25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839	16.731852172	22508.966000000	1.278659612	0.573192240	2.330848227	1.646896010	27.728800082
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	8.028483804	4.246955830	144.952703110
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	7.059781919	3.734526059	127.462980250
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	13.928758921	7.368118982	251.481015080

22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292
47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818
12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605
25.739731344	18.186795839	306.211213670	21.536433215	359.654638780	0.212370000	18.186795839	16.731852172	22508.966000000	1.278659612	0.573192240	2.330848227	1.646896010	27.728800082
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	8.028483804	4.246955830	144.952703110
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	7.059781919	3.734526059	127.462980250
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	13.928758921	7.368118982	251.481015080

ROGLBD	COLBD	SOXLBD	PM10LBD	PM25LBD	CO2LBD	CH4LBD	N2OLBD	CO2ELBD	TOGLB	PMLB	NOXLB	ROGLB
0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051
0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	60.316203396	25.987199981	269.671794760	50.466567381
0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	45.010855249	39.578674525	465.487264810	37.660582586
1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	122.756877950	107.941839610	1269.510722200	102.710679780
1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	107.657880590	61.630642106	1632.382065100	90.077348686
1.950220712	16.365591931	0.019231057	1.646896010	1.515144329	2038.287921600	0.000255265	0.000114429	2038.328755200	123.534956050	87.285488519	1469.626404300	103.361697730
6.717432399	113.316187170	0.133156812	4.246955830	3.907199364	14113.208773000	0.001767470	0.000792314	14113.491508000	425.509641600	225.088659010	7682.493264800	356.023917130
5.906919532	99.643667328	0.117090359	3.734526059	3.435763975	12410.335320000	0.001554211	0.000696715	12410.583940000	374.168441700	197.929881140	6755.537953100	313.066735170
11.654192589	196.594262570	0.231016114	7.368118982	6.778669463	24485.256172000	0.003066416	0.001374600	24485.746693000	738.224222820	390.510306040	13328.493799000	617.672207230

0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051
0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	73.719804150	31.762133310	329.598860260	61.681360132
0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	55.013267526	48.373935530	568.928879210	46.029600939
1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	150.036184160	131.928915080	1551.624216000	125.535275290
1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	132.033249780	75.584749753	2001.978004300	110.472220090
1.950220712	16.365591931	0.019231057	1.646896010	1.515144329	2038.287921600	0.000255265	0.000114429	2038.328755200	151.505134780	107.048240640	1802.372005300	126.764346270
6.717432399	113.316187170	0.133156812	4.246955830	3.907199364	14113.208773000	0.001767470	0.000792314	14113.491508000	521.851447250	276.052128980	9421.925702100	436.633105910
5.906919532	99.643667328	0.117090359	3.734526059	3.435763975	12410.335320000	0.001554211	0.000696715	12410.583940000	458.885824730	242.744193850	8285.093716100	383.949769550
11.654192589	196.594262570	0.231016114	7.368118982	6.778669463	24485.256172000	0.003066416	0.001374600	24485.746693000	905.369329870	478.927733820	16346.265980000	757.522518300

COLB	SOXLB	PM10LB	PM25LB	CO2LB	CH4LB	N2OLB	CO2ELB	TOGTON	PMTON	NOXTON
									Emissions for Engines 251<hp<750	0.662192725
									% of total	4.96%
									Emissions for Engines hp >750	11.263779016
									% of total	84.39%
9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
207.460714290	0.271020038	25.987199981	23.908223982	28725.247585000	0.003597412	0.001612633	28725.823047000	0.030158102	0.012993600	0.134835897
304.275714290	0.357551600	39.578674525	36.412380563	37896.674674000	0.004745997	0.002127516	37897.433870000	0.022505428	0.019789337	0.232743632
829.842857140	0.975140726	107.941839610	99.306492444	103354.567290000	0.012943628	0.005802316	103356.637830000	0.061378439	0.053970920	0.634755361
1567.865138900	1.842383937	61.630642106	56.700190738	195273.143110000	0.024455068	0.010962617	195277.055080000	0.053828940	0.030815321	0.816191033
867.376372350	1.019246016	87.285488519	80.302649438	108029.259840000	0.013529064	0.006064753	108031.424030000	0.061767478	0.043642744	0.734813202
6005.757920000	7.057311020	225.088659010	207.081566290	748000.064990000	0.093675925	0.041992656	748015.049910000	0.212754821	0.112544330	3.841246632
5281.114368400	6.205789032	197.929881140	182.095490650	657747.771960000	0.082373163	0.036925901	657760.948830000	0.187084221	0.098964941	3.377768977
10419.495916000	12.243854037	390.510306040	359.269481560	1297718.577100000	0.162520024	0.072853804	1297744.574700000	0.369112111	0.195255153	6.664246900
									Emissions for Engines <75 hp	0.134835897
									% of total	0.82%
									Emissions for Engines 75<hp<120	0.867498993
									% of total	5.27%
									Emissions for Engines 121<hp<175	0.734813202
									% of total	4.47%
									Emissions for Engines 175<hp<250	0.008907161
									% of total	0.05%
									Emissions for Engines 251<hp<750	0.816191033
									% of total	4.96%
									Emissions for Engines hp >750	13.883262509
									% of total	84.42%
9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
253.563095240	0.331246714	31.762133310	29.221162645	35108.635937000	0.004396836	0.001970996	35109.339280000	0.036859902	0.015881067	0.164799430
371.892539680	0.437007511	48.373935530	44.504020688	46318.157934000	0.005800663	0.002600297	46319.085841000	0.027506634	0.024186968	0.284464440
1014.252381000	1.191838666	131.928915080	121.374601880	126322.248910000	0.015819990	0.007091720	126324.779570000	0.075018092	0.065964458	0.775812108
1922.853472200	2.259527470	75.584749753	69.537969773	239485.930230000	0.029992064	0.013444719	239490.727930000	0.066016625	0.037792375	1.000989002
1063.763475500	1.250018699	107.048240640	98.484381386	132488.714900000	0.016592249	0.007437905	132491.369090000	0.075752567	0.053524120	0.901186003
7365.552166000	8.655192761	276.052128980	253.967958660	917358.570280000	0.114885569	0.051500427	917376.948010000	0.260925724	0.138026064	4.710962851
6476.838376300	7.610873342	242.744193850	223.324658350	806671.795800000	0.101023690	0.045286482	806687.956110000	0.229442912	0.121372097	4.142546858
12778.627067000	15.016047404	478.927733820	440.613515120	1591541.651200000	0.199317011	0.089349005	1591573.535000000	0.452684665	0.239463867	8.173132990
									Emissions for Engines <75 hp	0.164799430
									% of total	0.82%
									Emissions for Engines 75<hp<120	1.060276548
									% of total	5.26%
									Emissions for Engines 121<hp<175	0.901186003
									% of total	4.47%
									Emissions for Engines 175<hp<250	0.008907161
									% of total	0.04%
									Emissions for Engines 251<hp<750	1.000989002
									% of total	4.96%
									Emissions for Engines hp >750	17.026642699

ROGTON	COTON	SOXTON	PM10TON	PM25TON	CO2TONNE	CH4TONNE	N2OTONNE	CO2ETONNE
0.036540811	0.636020764	0.000747382	0.025001110	0.023001021	Industrial - Other General Industrial			
5.38%	6.15%	6.14%	5.42%	5.42%				
0.521988708	8.805413517	0.010347160	0.330016418	0.303615104	Oil Drilling - Drilling Rig			
76.91%	85.12%	85.04%	71.51%	71.51%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.025233284	0.103730357	0.000135510	0.012993600	0.011954112	13.029772305	0.000001632	0.000000731	13.030033334
0.018830291	0.152137857	0.000178776	0.019789337	0.018206190	17.189931632	0.000002153	0.000000965	17.190276003
0.051355340	0.414921429	0.000487570	0.053970920	0.049653246	46.881631724	0.000005871	0.000002632	46.882570918
0.045038674	0.783932569	0.000921192	0.030815321	0.028350095	88.575897715	0.000011093	0.000004973	88.577672183
0.051680849	0.433688186	0.000509623	0.043642744	0.040151325	49.002072265	0.000006137	0.000002751	49.003053939
0.178011959	3.002878960	0.003528656	0.112544330	0.103540783	339.292829480	0.000042491	0.000019048	339.299626640
0.156533368	2.640557184	0.003102895	0.098964941	0.091047745	298.354389360	0.000037364	0.000016750	298.360366390
0.308836104	5.209747958	0.006121927	0.195255153	0.179634741	588.645146580	0.000073719	0.000033046	588.656939090
0.025233284	0.103730357	0.000135510	0.012993600	0.011954112	Industrial - Other General Industrial			
3.02%	0.81%	0.90%	2.29%	2.29%				
0.070185631	0.567059286	0.000666346	0.073760257	0.067859436	Industrial - Other General Industrial			
8.40%	4.45%	4.44%	12.98%	12.98%				
0.051680849	0.433688186	0.000509623	0.043642744	0.040151325	Oil Drilling - Drilling Rig			
6.18%	3.40%	3.40%	7.68%	7.68%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	Construction and Mining - Cranes			
0.06%	0.04%	0.04%	0.07%	0.07%				
0.045038674	0.783932569	0.000921192	0.030815321	0.028350095	Industrial - Other General Industrial			
5.39%	6.15%	6.14%	5.42%	5.42%				
0.643381431	10.853184102	0.012753478	0.406764424	0.374223269	Oil Drilling - Drilling Rig			
76.96%	85.15%	85.07%	71.57%	71.57%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.030840680	0.126781548	0.000165623	0.015881067	0.014610581	15.925277261	0.000001994	0.000000894	15.925596297
0.023014800	0.185946270	0.000218504	0.024186968	0.022252010	21.009916439	0.000002631	0.000001179	21.010337337
0.062767638	0.507126190	0.000595919	0.065964458	0.060687301	57.299772107	0.000007176	0.000003217	57.300920011
0.055236110	0.961426736	0.001129764	0.037792375	0.034768985	108.630817950	0.000013604	0.000006099	108.632994190
0.063382173	0.531881738	0.000625009	0.053524120	0.049242191	60.096881080	0.000007526	0.000003374	60.098085019
0.218316553	3.682776083	0.004327596	0.138026064	0.126983979	416.113847480	0.000052112	0.000023361	416.122183620
0.191974885	3.238419188	0.003805437	0.121372097	0.111662329	365.906326580	0.000045824	0.000020542	365.913656890
0.378761259	6.389313533	0.007508024	0.239463867	0.220306758	721.923292970	0.000090410	0.000040529	721.937755490
0.030840680	0.126781548	0.000165623	0.015881067	0.014610581	Industrial - Other General Industrial			
3.01%	0.81%	0.90%	2.28%	2.28%				
0.085782438	0.693072460	0.000814423	0.090151426	0.082939311	Industrial - Other General Industrial			
8.37%	4.43%	4.43%	12.94%	12.94%				
0.063382173	0.531881738	0.000625009	0.053524120	0.049242191	Oil Drilling - Drilling Rig			
6.18%	3.40%	3.40%	7.68%	7.68%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	Construction and Mining - Cranes			
0.05%	0.03%	0.03%	0.06%	0.06%				
0.055236110	0.961426736	0.001129764	0.037792375	0.034768985	Industrial - Other General Industrial			
5.39%	6.15%	6.15%	5.43%	5.43%				
0.789052697	13.310508804	0.015641057	0.498862028	0.458953066	Oil Drilling - Drilling Rig			

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR	STARTMO	STARTDAY	ENDYR
IPK_4AB0FNVP	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNVP	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	82.00	7	04/04/2015	2015	2015	1	13	2015
IPK_4AB0FNVP	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	82.00	7	04/04/2015	2015	2015	1	13	2015
IPK_4AB0FNVP	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	82.00	7	04/04/2015	2015	2015	1	13	2015
IPK_4AB0FNVQ	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	81.00	7	04/03/2015	2015	2015	1	13	2015
IPK_4AB0FNVQ	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	81.00	7	04/03/2015	2015	2015	1	13	2015
IPK_4AB0FNVQ	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	81.00	7	04/03/2015	2015	2015	1	13	2015
IPK_4AB0FNVQ	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	81.00	7	04/03/2015	2015	2015	1	13	2015
IPK_4AB0FNVR	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	81.00	7	04/03/2015	2015	2015	1	13	2015
IPK_4AB0FNVY	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNVZ	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	101.00	7	04/23/2015	2015	2015	1	13	2015
IPK_4AB0FNVZ	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	101.00	7	04/23/2015	2015	2015	1	13	2015
IPK_4AB0FNVZ	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	101.00	7	04/23/2015	2015	2015	1	13	2015
IPK_4AB0FNW0	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	100.00	7	04/22/2015	2015	2015	1	13	2015
IPK_4AB0FNW0	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	100.00	7	04/22/2015	2015	2015	1	13	2015
IPK_4AB0FNW0	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	100.00	7	04/22/2015	2015	2015	1	13	2015
IPK_4AB0FNW1	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	100.00	7	04/22/2015	2015	2015	1	13	2015
IPK_4AB0FNW1	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	100.00	7	04/22/2015	2015	2015	1	13	2015
IPK_4AB0FNW8	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015

ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP	CATLOAD
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
4	4	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
4	4	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
4	4	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
4	3	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
4	3	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	180.00	250	176	250	212.472220000	0.502500000
4	3	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1211.00	1000	751	9999	769.666670000	0.502500000
4	3	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1165.00	1000	751	9999	769.666670000	0.502500000
4	3	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	2203.00	1000	751	9999	769.666670000	0.502500000
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
4	23	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
4	23	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
4	23	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
4	22	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
4	22	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	180.00	250	176	250	212.472220000	0.502500000
4	22	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1211.00	1000	751	9999	769.666670000	0.502500000
4	22	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1165.00	1000	751	9999	769.666670000	0.502500000
4	22	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	2203.00	1000	751	9999	769.666670000	0.502500000
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000

CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	TOGGBHP	PMGBHP	NOXGBHP	ROGGBHP	COGBHP	SOXGBHP	PM10GBHP	PM25GBHP	CO2GBHP	CH4GBHP	N2OGBHP
0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716
0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716
0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716
0.367000000	1286.375127100	5.535187969	7120.328126800	0.344390767	0.182534978	5.701322246	0.288151755	4.250000000	0.004994136	0.182534978	0.167932179	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716

TOGLBMG	PMLBMG	NOXLBMG	ROGLBMG	COLBMG	SOXLBMG	PM10LBMG	PM25LBMG	CO2LBMG	CH4LBMG	N2OLBMG	TOGLBD	PMLBD	NOXLBD
22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292
47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818
12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605
14.644828896	7.762094019	242.442297390	12.253328337	359.654638780	0.212370000	7.762094019	7.141126498	22508.966000000	1.278659612	0.573192240	1.510809496	0.800763562	25.011157709
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	8.887105929	4.701154946	160.454957460
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	8.549527999	4.522580935	154.360054040
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	16.167047367	8.552142317	291.892874730

22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292
47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818
12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605
14.644828896	7.762094019	242.442297390	12.253328337	359.654638780	0.212370000	7.762094019	7.141126498	22508.966000000	1.278659612	0.573192240	1.510809496	0.800763562	25.011157709
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	8.887105929	4.701154946	160.454957460
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	8.549527999	4.522580935	154.360054040
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	16.167047367	8.552142317	291.892874730

22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292

ROGLBD	COLBD	SOXLBD	PM10LBD	PM25LBD	CO2LBD	CH4LBD	N2OLBD	CO2ELBD	TOGLB	PMLB	NOXLB	ROGLB
0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051
0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	91.591271823	39.462044415	409.501614260	76.634417134
0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	68.349817229	60.100950204	706.851031740	57.188292076
1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	186.408592440	163.911682380	1927.775541100	155.968069300
1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	164.533742030	94.190226615	2494.772590000	137.665381950
1.264094305	18.644345238	0.021908799	0.800763562	0.736702477	2322.100163800	0.000290809	0.000130362	2322.146683200	122.375569180	64.861848530	2025.903774400	102.391638730
7.435841531	125.435011570	0.147397531	4.701154946	4.325062550	15622.573880000	0.001956496	0.000877050	15622.886852000	719.855580260	380.793550610	12996.851555000	602.303164000
7.153390077	120.670345570	0.141798616	4.522580935	4.160774460	15029.148283000	0.001882178	0.000843735	15029.449366000	692.511767960	366.329055700	12503.164377000	579.424596250
13.526968532	228.186069780	0.268139357	8.552142317	7.867970931	28419.925894000	0.003559175	0.001595492	28420.495239000	1309.530836800	692.723527650	23643.322853000	1095.684451100
0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051
0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	112.813639680	48.605688853	504.386134640	94.391172324
0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	84.186970002	74.026780130	870.633587880	70.439237801
1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	229.600827280	201.891218540	2374.455239700	192.107012180
1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	203.128076580	116.284230390	3079.966160500	169.957261670
1.264094305	18.644345238	0.021908799	0.800763562	0.736702477	2322.100163800	0.000290809	0.000130362	2322.146683200	151.080949600	80.076356210	2501.115770900	126.409430530
7.435841531	125.435011570	0.147397531	4.701154946	4.325062550	15622.573880000	0.001956496	0.000877050	15622.886852000	888.710592910	470.115494570	16045.495746000	743.584153090
7.153390077	120.670345570	0.141798616	4.522580935	4.160774460	15029.148283000	0.001882178	0.000843735	15029.449366000	854.952799950	452.258093460	15436.005404000	715.339007720
13.526968532	228.186069780	0.268139357	8.552142317	7.867970931	28419.925894000	0.003559175	0.001595492	28420.495239000	1616.704736700	855.214231670	29189.287473000	1352.696853200
0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051

COLB	SOXLB	PM10LB	PM25LB	CO2LB	CH4LB	N2OLB	CO2ELB	TOGTON	PMTON	NOXTON
									% of total	84.45%
9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
315.032936510	0.411548947	39.462044415	36.305080862	43619.820407000	0.005462736	0.002448813	43620.694257000	0.045795636	0.019731022	0.204750807
462.048306880	0.542948725	60.100950204	55.292874188	57546.802282000	0.007206884	0.003230672	57547.955135000	0.034174909	0.030050475	0.353425516
1260.131746000	1.480769251	163.911682380	150.798747790	156945.824410000	0.019655139	0.008810924	156948.968550000	0.093204296	0.081955841	0.963887771
2396.171250000	2.815718847	94.190226615	86.655008486	298436.313050000	0.037374726	0.016754188	298442.291720000	0.082266871	0.047095113	1.247386295
1510.191964300	1.774612719	64.861848530	59.672900648	188090.113270000	0.023555500	0.010559362	188093.881340000	0.061187785	0.032430924	1.012951887
10160.235937000	11.939200015	380.793550610	350.330066560	1265428.484300000	0.158476168	0.071041041	1265453.835000000	0.359927790	0.190396775	6.498425777
9774.297991100	11.485687876	366.329055700	337.022731250	1217361.010900000	0.152456430	0.068342537	1217385.398700000	0.346255884	0.183164528	6.251582189
18483.071652000	21.719287889	692.723527650	637.305645440	2302013.997400000	0.288293145	0.129234858	2302060.114400000	0.654765418	0.346361764	11.821661426

9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
388.028373020	0.506907850	48.605688853	44.717233745	53726.851965000	0.006728492	0.003016221	53727.928292000	0.056406820	0.024302844	0.252193067
569.108280420	0.668753918	74.026780130	68.104637719	70880.817445000	0.008876772	0.003979243	70882.237423000	0.042093485	0.037013390	0.435316794
1552.113492100	1.823874322	201.891218540	185.739921050	193311.320300000	0.024209379	0.010852480	193315.192970000	0.114800414	0.100945609	1.187227620
2958.236111100	3.476196108	116.284230390	106.981491960	368439.892660000	0.046141638	0.020684182	368447.273730000	0.101564038	0.058142115	1.539983080
1864.434523800	2.190879900	80.076356210	73.670247713	232210.016380000	0.029080864	0.013036249	232214.668320000	0.075540475	0.040038178	1.250557885
12543.501157000	14.739753105	470.115494570	432.506255010	1562257.388000000	0.195649591	0.087704989	1562288.685200000	0.444355296	0.235057747	8.022747873
12067.034557000	14.179861575	452.258093460	416.077445980	1502914.828300000	0.188217814	0.084373503	1502944.936600000	0.427476400	0.226129047	7.718002702
22818.606978000	26.813935665	855.214231670	786.797093130	2841992.589400000	0.355917464	0.159549208	2842049.523900000	0.808352368	0.427607116	14.594643736

9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161

ROGTON	COTON	SOXTON	PM10TON	PM25TON	CO2TONNE	CH4TONNE	N2OTONNE	CO2ETONNE
76.99%	85.17%	85.09%	71.61%	71.61%				
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.038317209	0.157516468	0.000205774	0.019731022	0.018152540	19.785950537	0.000002478	0.000001111	19.786346915
0.028594146	0.231024153	0.000271474	0.030050475	0.027646437	26.103229515	0.000003269	0.000001465	26.103752449
0.077984035	0.630065873	0.000740385	0.081955841	0.075399374	71.190625951	0.000008916	0.000003997	71.192052135
0.068832691	1.198085625	0.001407859	0.047095113	0.043327504	135.370711600	0.000016953	0.000007600	135.373423530
0.051195819	0.755095982	0.000887306	0.032430924	0.029836450	85.317675379	0.000010685	0.000004790	85.319384575
0.301151582	5.080117969	0.005969600	0.190396775	0.175165033	573.998360470	0.000071885	0.000032224	574.009859560
0.289712298	4.887148996	0.005742844	0.183164528	0.168511366	552.194954540	0.000069154	0.000031000	552.206016830
0.547842226	9.241535826	0.010859644	0.346361764	0.318652823	1044.193549200	0.000130770	0.000058621	1044.214467900

0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.047195586	0.194014187	0.000253454	0.024302844	0.022358617	24.370500051	0.000003052	0.000001368	24.370988273
0.035219619	0.284554140	0.000334377	0.037013390	0.034052319	32.151538793	0.000004027	0.000001805	32.152182895
0.096053506	0.776056746	0.000911937	0.100945609	0.092869961	87.686014890	0.000010981	0.000004923	87.687771532
0.084978631	1.479118056	0.001738098	0.058142115	0.053490746	167.124335310	0.000020930	0.000009382	167.127683360
0.063204715	0.932217262	0.001095440	0.040038178	0.036835124	105.330463430	0.000013191	0.000005913	105.332573550
0.371792077	6.271750579	0.007369877	0.235057747	0.216253128	708.639951200	0.000088747	0.000039783	708.654147600
0.357669504	6.033517278	0.007089931	0.226129047	0.208038723	681.722166100	0.000085376	0.000038272	681.735823250
0.676348427	11.409303489	0.013406968	0.427607116	0.393398547	1289.127838500	0.000161444	0.000072372	1289.153664000

0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR	STARTMO	STARTDAY	ENDYR
IPK_4AB0FNW8	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	125.00	7	05/17/2015	2015	2015	1	13	2015
IPK_4AB0FNW8	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	125.00	7	05/17/2015	2015	2015	1	13	2015
IPK_4AB0FNW9	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	125.00	7	05/17/2015	2015	2015	1	13	2015
IPK_4AB0FNW9	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	124.00	7	05/16/2015	2015	2015	1	13	2015
IPK_4AB0FNW9	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	124.00	7	05/16/2015	2015	2015	1	13	2015
IPK_4AB0FNWA	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	124.00	7	05/16/2015	2015	2015	1	13	2015
IPK_4AB0FNWA	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	124.00	7	05/16/2015	2015	2015	1	13	2015
IPK_4AB0FNWA	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	124.00	7	05/16/2015	2015	2015	1	13	2015
IPK_4AB0FNWH	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNWH	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	154.00	7	06/15/2015	2015	2015	1	13	2015
IPK_4AB0FNWI	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	154.00	7	06/15/2015	2015	2015	1	13	2015
IPK_4AB0FNWI	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	153.00	7	06/14/2015	2015	2015	1	13	2015
IPK_4AB0FNWI	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	153.00	7	06/14/2015	2015	2015	1	13	2015
IPK_4AB0FNWJ	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	153.00	7	06/14/2015	2015	2015	1	13	2015
IPK_4AB0FNWJ	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	153.00	7	06/14/2015	2015	2015	1	13	2015
IPK_4AB0FNWJ	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	153.00	7	06/14/2015	2015	2015	1	13	2015
IPK_4AB0FNWQ	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNWQ	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	191.00	7	07/22/2015	2015	2015	1	13	2015
IPK_4AB0FNWR	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	191.00	7	07/22/2015	2015	2015	1	13	2015
IPK_4AB0FNWR	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	191.00	7	07/22/2015	2015	2015	1	13	2015

ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP	CATLOAD
5	17	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
5	17	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
5	17	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
5	16	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
5	16	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	180.00	250	176	250	212.472220000	0.502500000
5	16	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1211.00	1000	751	9999	769.666670000	0.502500000
5	16	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1165.00	1000	751	9999	769.666670000	0.502500000
5	16	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	2203.00	1000	751	9999	769.666670000	0.502500000
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
6	15	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
6	15	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
6	15	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
6	14	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
6	14	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	180.00	250	176	250	212.472220000	0.502500000
6	14	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1211.00	1000	751	9999	769.666670000	0.502500000
6	14	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1165.00	1000	751	9999	769.666670000	0.502500000
6	14	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	2203.00	1000	751	9999	769.666670000	0.502500000
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
7	22	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
7	22	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
7	22	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000

CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	TOGGBHP	PMGBHP	NOXGBHP	ROGGBHP	COGBHP	SOXGBHP	PM10GBHP	PM25GBHP	CO2GBHP	CH4GBHP	N2OGBHP
0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716
0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716
0.367000000	1286.375127100	5.535187969	7120.328126800	0.344390767	0.182534978	5.701322246	0.288151755	4.250000000	0.004994136	0.182534978	0.167932179	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716
0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716
0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716
0.367000000	1286.375127100	5.535187969	7120.328126800	0.344390767	0.182534978	5.701322246	0.288151755	4.250000000	0.004994136	0.182534978	0.167932179	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716

TOGLBMG	PMLBMG	NOXLBMG	ROGLBMG	COLBMG	SOXLBMG	PM10LBMG	PM25LBMG	CO2LBMG	CH4LBMG	N2OLBMG	TOGLBD	PMLBD	NOXLBD
47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818
12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605
14.644828896	7.762094019	242.442297390	12.253328337	359.654638780	0.212370000	7.762094019	7.141126498	22508.966000000	1.278659612	0.573192240	1.510809496	0.800763562	25.011157709
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	8.887105929	4.701154946	160.454957460
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	8.549527999	4.522580935	154.360054040
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	16.167047367	8.552142317	291.892874730
22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292
47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818
12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605
14.644828896	7.762094019	242.442297390	12.253328337	359.654638780	0.212370000	7.762094019	7.141126498	22508.966000000	1.278659612	0.573192240	1.510809496	0.800763562	25.011157709
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	8.887105929	4.701154946	160.454957460
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	8.549527999	4.522580935	154.360054040
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	16.167047367	8.552142317	291.892874730

ROGLBD	COLBD	SOXLBD	PM10LBD	PM25LBD	CO2LBD	CH4LBD	N2OLBD	CO2ELBD	TOGLB	PMLB	NOXLB	ROGLB
0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	139.620841190	60.155555511	624.240265650	116.820757830
0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	104.191794560	91.617302141	1077.516816700	87.177274506
1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	284.159439700	249.865369480	2938.682227300	237.756203200
1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	251.878814960	144.192445680	3819.158039000	210.747004470
1.264094305	18.644345238	0.021908799	0.800763562	0.736702477	2322.100163800	0.000290809	0.000130362	2322.146683200	187.340377510	99.294681700	3101.383555900	156.747693860
7.435841531	125.435011570	0.147397531	4.701154946	4.325062550	15622.573880000	0.001956496	0.000877050	15622.886852000	1102.001135200	582.943213270	19896.414726000	922.044349830
7.153390077	120.670345570	0.141798616	4.522580935	4.160774460	15029.148283000	0.001882178	0.000843735	15029.449366000	1060.141471900	560.800035890	19140.646701000	887.020369570
13.526968532	228.186069780	0.268139357	8.552142317	7.867970931	28419.925894000	0.003559175	0.001595492	28420.495239000	2004.713873500	1060.465647300	36194.716466000	1677.344098000

0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051
0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	172.012876350	74.111644390	769.064007280	143.923173640
0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	128.364290890	112.872516240	1327.500718100	107.402402190
1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	350.084429710	307.834135190	3620.456504000	292.915642340
1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	310.785957160	177.914872490	4712.348225600	260.034610360
1.264094305	18.644345238	0.021908799	0.800763562	0.736702477	2322.100163800	0.000290809	0.000130362	2322.146683200	231.153852890	122.516825000	3826.707129400	193.406428720
7.435841531	125.435011570	0.147397531	4.701154946	4.325062550	15622.573880000	0.001956496	0.000877050	15622.886852000	1359.727207200	719.276706700	24549.608492000	1137.683754200
7.153390077	120.670345570	0.141798616	4.522580935	4.160774460	15029.148283000	0.001882178	0.000843735	15029.449366000	1308.077783900	691.954882990	23617.088269000	1094.468681800
13.526968532	228.186069780	0.268139357	8.552142317	7.867970931	28419.925894000	0.003559175	0.001595492	28420.495239000	2473.558247200	1308.477774400	44659.609833000	2069.626185400

0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051
0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	213.340645340	91.917688821	953.839125910	178.502117960
0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	159.205062080	139.991237670	1646.445695900	133.206875440
1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	434.195623860	381.794284560	4490.306443300	363.291478490

COLB	SOXLB	PM10LB	PM25LB	CO2LB	CH4LB	N2OLB	CO2ELB	TOGTON	PMTON	NOXTON
480.233134920	0.627361200	60.155555511	55.343111070	66493.628669000	0.008327342	0.003732946	66494.960757000	0.069810421	0.030077778	0.312120133
704.341931220	0.827665740	91.617302141	84.287917970	87723.783967000	0.010986104	0.004924805	87725.541365000	0.052095897	0.045808651	0.538758408
1920.932539700	2.257270200	249.865369480	229.876139920	239246.683550000	0.029962102	0.013431287	239251.476450000	0.142079720	0.124932685	1.469341114
3668.212777800	4.310483174	144.192445680	132.657050030	456865.466900000	0.057215631	0.025648386	456874.619430000	0.125939407	0.072096223	1.909579020
2311.898809500	2.716691076	99.294681700	91.351107164	287940.420310000	0.036060271	0.016164949	287946.188710000	0.093670189	0.049647341	1.550691778
15553.941435000	18.277293850	582.943213270	536.307756210	1937199.161100000	0.242605493	0.108754186	1937237.969600000	0.551000568	0.291471607	9.948207363
14963.122851000	17.583028353	560.800035890	515.936033020	1863614.387000000	0.233390090	0.104623144	1863651.721400000	0.530070736	0.280400018	9.570323351
28295.072652000	33.249280225	1060.465647300	975.628395490	3524070.810800000	0.441337655	0.197841018	3524141.409700000	1.002356937	0.530232824	18.097358233

9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
591.647222220	0.772908998	74.111644390	68.182712839	81920.150521000	0.010259285	0.004598990	81921.791653000	0.086006438	0.037055822	0.384532004
867.749259260	1.019684192	112.872516240	103.842714940	108075.701850000	0.013534880	0.006067360	108077.866960000	0.064182145	0.056436258	0.663750359
2366.588888900	2.780956886	307.834135190	283.207404380	294751.914130000	0.036913310	0.016547346	294757.818990000	0.175042215	0.153917068	1.810228252
4526.101250000	5.318580045	177.914872490	163.681682700	563713.035770000	0.070596706	0.031646799	563724.328810000	0.155392979	0.088957436	2.356174113
2852.584821400	3.352046247	122.516825000	112.715479000	355281.325070000	0.044493722	0.019945462	355288.442530000	0.115576926	0.061258413	1.913353565
19191.556771000	22.551822251	719.276706700	661.734570160	2390253.803600000	0.299343874	0.134188633	2390301.688300000	0.679863604	0.359638353	12.274804246
18462.562872000	21.695188210	691.954882990	636.598492350	2299459.687200000	0.287973256	0.129091460	2299505.753000000	0.654038892	0.345977441	11.808544134
34912.468676000	41.025321567	1308.477774400	1203.799552500	4348248.661800000	0.544553719	0.244110288	4348335.771600000	1.236779124	0.654238887	22.329804917

9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
733.796230160	0.958607914	91.917688821	84.564273716	101602.264610000	0.012724178	0.005703942	101604.300040000	0.106670323	0.045958844	0.476919563
1076.234470900	1.264673251	139.991237670	128.791938660	134041.941900000	0.016786767	0.007525103	134044.627210000	0.079602531	0.069995619	0.823222848
2935.184920600	3.449108866	381.794284560	351.250741790	365568.932460000	0.045782092	0.020523007	365576.256010000	0.217097812	0.190897142	2.245153222

ROGTON	COTON	SOXTON	PM10TON	PM25TON	CO2TONNE	CH4TONNE	N2OTONNE	CO2ETONNE
0.058410379	0.240116567	0.000313681	0.030077778	0.027671556	30.161509964	0.000003777	0.000001693	30.162114199
0.043588637	0.352170966	0.000413833	0.045808651	0.042143959	39.791508407	0.000004983	0.000002234	39.792305563
0.118878102	0.960466270	0.001128635	0.124932685	0.114938070	108.522295660	0.000013591	0.000006092	108.524469720
0.105373502	1.834106389	0.002155242	0.072096223	0.066328525	207.234175790	0.000025953	0.000011634	207.238327370
0.078373847	1.155949405	0.001358346	0.049647341	0.045675554	130.609774650	0.000016357	0.000007332	130.612391200
0.461022175	7.776970718	0.009138647	0.291471607	0.268153878	878.713539480	0.000110046	0.000049331	878.731143020
0.443510185	7.481561425	0.008791514	0.280400018	0.257968017	845.335485960	0.000105866	0.000047457	845.352420830
0.838672049	14.147536326	0.016624640	0.530232824	0.487814198	1598.518519800	0.000200191	0.000089741	1598.550543400

0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.071961587	0.295823611	0.000386454	0.037055822	0.034091356	37.158980276	0.000004654	0.000002086	37.159724694
0.053701201	0.433874630	0.000509842	0.056436258	0.051921357	49.023138358	0.000006139	0.000002752	49.024120454
0.146457821	1.183294444	0.001390478	0.153917068	0.141603702	133.699468250	0.000016744	0.000007506	133.702146690
0.130017305	2.263050625	0.002659290	0.088957436	0.081840841	255.700233030	0.000032023	0.000014355	255.705355550
0.096703214	1.426292411	0.001676023	0.061258413	0.056357740	161.155609050	0.000020182	0.000009047	161.158837530
0.568841877	9.595778385	0.011275911	0.359638353	0.330867285	1084.219125300	0.000135782	0.000060868	1084.240845800
0.547234341	9.231281436	0.010847594	0.345977441	0.318299246	1043.034914100	0.000130625	0.000058556	1043.055809600
1.034813093	17.456234338	0.020512661	0.654238887	0.601899776	1972.365593000	0.000247010	0.000110728	1972.405106000

0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.089251059	0.366898115	0.000479304	0.045958844	0.042282137	46.086787226	0.000005772	0.000002587	46.087710497
0.066603438	0.538117235	0.000632337	0.069995619	0.064395969	60.801424846	0.000007614	0.000003413	60.802642900
0.181645739	1.467592460	0.001724554	0.190897142	0.175625371	165.822067760	0.000020767	0.000009309	165.825389730

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR	STARTMO	STARTDAY	ENDYR
IPK_4AB0FNWR	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	190.00	7	07/21/2015	2015	2015	1	13	2015
IPK_4AB0FNWR	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	190.00	7	07/21/2015	2015	2015	1	13	2015
IPK_4AB0FNWS	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	190.00	7	07/21/2015	2015	2015	1	13	2015
IPK_4AB0FNWS	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	190.00	7	07/21/2015	2015	2015	1	13	2015
IPK_4AB0FNWS	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	190.00	7	07/21/2015	2015	2015	1	13	2015
IPK_4AB0FNWY	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNWZ	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	235.00	7	09/04/2015	2015	2015	1	13	2015
IPK_4AB0FNWZ	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	235.00	7	09/04/2015	2015	2015	1	13	2015
IPK_4AB0FNX0	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	235.00	7	09/04/2015	2015	2015	1	13	2015
IPK_4AB0FNX0	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	234.00	7	09/03/2015	2015	2015	1	13	2015
IPK_4AB0FNX1	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	234.00	7	09/03/2015	2015	2015	1	13	2015
IPK_4AB0FNX1	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	234.00	7	09/03/2015	2015	2015	1	13	2015
IPK_4AB0FNX1	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	234.00	7	09/03/2015	2015	2015	1	13	2015
IPK_4AB0FNX7	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNX7	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	291.00	7	10/30/2015	2015	2015	1	13	2015
IPK_4AB0FNX7	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	291.00	7	10/30/2015	2015	2015	1	13	2015
IPK_4AB0FNX7	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	291.00	7	10/30/2015	2015	2015	1	13	2015
IPK_4AB0FNX8	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	290.00	7	10/29/2015	2015	2015	1	13	2015
IPK_4AB0FNX8	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	290.00	7	10/29/2015	2015	2015	1	13	2015
IPK_4AB0FNX9	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	290.00	7	10/29/2015	2015	2015	1	13	2015

ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP	CATLOAD
7	21	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
7	21	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	180.00	250	176	250	212.472220000	0.502500000
7	21	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1211.00	1000	751	9999	769.666670000	0.502500000
7	21	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1165.00	1000	751	9999	769.666670000	0.502500000
7	21	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	2203.00	1000	751	9999	769.666670000	0.502500000
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
9	4	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
9	4	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
9	4	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
9	3	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
9	3	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	180.00	250	176	250	212.472220000	0.502500000
9	3	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1361.00	1000	751	9999	769.666670000	0.502500000
9	3	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1342.00	1000	751	9999	769.666670000	0.502500000
9	3	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	2274.00	1000	751	9999	769.666670000	0.502500000
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
10	30	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
10	30	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
10	30	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
10	29	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
10	29	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	180.00	250	176	250	212.472220000	0.502500000
10	29	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1361.00	1000	751	9999	769.666670000	0.502500000

CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	TOGGBHP	PMGBHP	NOXGBHP	ROGGBHP	COGBHP	SOXGBHP	PM10GBHP	PM25GBHP	CO2GBHP	CH4GBHP	N2OGBHP
0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716
0.367000000	1286.375127100	5.535187969	7120.328126800	0.344390767	0.182534978	5.701322246	0.288151755	4.250000000	0.004994136	0.182534978	0.167932179	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716
0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716
0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716
0.367000000	1286.375127100	5.535187969	7120.328126800	0.344390767	0.182534978	5.701322246	0.288151755	4.250000000	0.004994136	0.182534978	0.167932179	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716

TOGLBMG	PMLBMG	NOXLBMG	ROGLBMG	COLBMG	SOXLBMG	PM10LBMG	PM25LBMG	CO2LBMG	CH4LBMG	N2OLBMG	TOGLBD	PMLBD	NOXLBD
12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605
14.644828896	7.762094019	242.442297390	12.253328337	359.654638780	0.212370000	7.762094019	7.141126498	22508.966000000	1.278659612	0.573192240	1.510809496	0.800763562	25.011157709
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	8.887105929	4.701154946	160.454957460
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	8.549527999	4.522580935	154.360054040
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	16.167047367	8.552142317	291.892874730
22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292
47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818
12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605
14.644828896	7.762094019	242.442297390	12.253328337	359.654638780	0.212370000	7.762094019	7.141126498	22508.966000000	1.278659612	0.573192240	1.510809496	0.800763562	25.011157709
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	9.987903526	5.283461504	180.329642530
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	9.848469163	5.209702673	177.812182430
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	16.688091563	8.827767421	301.300225660
22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292
47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818
12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605
14.644828896	7.762094019	242.442297390	12.253328337	359.654638780	0.212370000	7.762094019	7.141126498	22508.966000000	1.278659612	0.573192240	1.510809496	0.800763562	25.011157709
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	9.987903526	5.283461504	180.329642530

ROGLBD	COLBD	SOXLBD	PM10LBD	PM25LBD	CO2LBD	CH4LBD	N2OLBD	CO2ELBD	TOGLB	PMLB	NOXLB	ROGLB
1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	385.943345500	220.940037740	5851.935705000	322.918797180
1.264094305	18.644345238	0.021908799	0.800763562	0.736702477	2322.100163800	0.000290809	0.000130362	2322.146683200	287.053804250	152.145076800	4752.119964600	240.177918010
7.435841531	125.435011570	0.147397531	4.701154946	4.325062550	15622.573880000	0.001956496	0.000877050	15622.886852000	1688.550126500	893.219439690	30486.441918000	1412.809890900
7.153390077	120.670345570	0.141798616	4.522580935	4.160774460	15029.148283000	0.001882178	0.000843735	15029.449366000	1624.410319900	859.290377570	29328.410268000	1359.144114700
13.526968532	228.186069780	0.268139357	8.552142317	7.867970931	28419.925894000	0.003559175	0.001595492	28420.495239000	3071.738999800	1624.907040200	55459.646198000	2570.124021100

0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051
0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	262.487181440	113.092444360	1173.571699400	219.623024710
0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	195.880573770	172.240528020	2025.731615400	163.893276070
1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	534.219746640	469.746894610	5524.722587300	446.981662010
1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	475.319699190	272.105099110	7207.120815600	397.699992310
1.264094305	18.644345238	0.021908799	0.800763562	0.736702477	2322.100163800	0.000290809	0.000130362	2322.146683200	353.529422070	187.378673530	5852.610903800	295.798067450
8.356878880	140.971965940	0.165654864	5.283461504	4.860784584	17557.657350000	0.002198836	0.000985685	17558.009088000	2337.169425000	1236.329991900	42197.136353000	1955.509657900
8.240214149	139.003951720	0.163342268	5.209702673	4.792926459	17312.546777000	0.002168140	0.000971925	17312.893605000	2304.541784200	1219.070425500	41608.050687000	1928.210110900
13.962926211	235.540228170	0.276781161	8.827767421	8.121546027	29335.865403000	0.003673882	0.001646913	29336.453098000	3905.013425700	2065.697576500	70504.252804000	3267.324733300

0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051
0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	325.037318300	140.042133230	1453.231338400	271.958724220
0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	242.558497730	213.285079380	2508.459149200	202.948695050
1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	661.523175620	581.686580140	6841.252225200	553.496441040
1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	589.071422070	337.224268130	8931.901865500	492.876058850
1.264094305	18.644345238	0.021908799	0.800763562	0.736702477	2322.100163800	0.000290809	0.000130362	2322.146683200	438.134753850	232.221433010	7253.235735500	366.587348550
8.356878880	140.971965940	0.165654864	5.283461504	4.860784584	17557.657350000	0.002198836	0.000985685	17558.009088000	2896.492022400	1532.203836100	52295.596335000	2423.494875200

COLB	SOXLB	PM10LB	PM25LB	CO2LB	CH4LB	N2OLB	CO2ELB	TOGTON	PMTON	NOXTON
5620.648611100	6.604772605	220.940037740	203.264834720	700035.796050000	0.087669111	0.039299946	700049.820090000	0.192971673	0.110470019	2.925967852
3542.425595200	4.162671810	152.145076800	139.973470650	441199.031130000	0.055253642	0.024768874	441207.869800000	0.143526902	0.076072538	2.376059982
23832.652199000	28.005530900	893.219439690	821.761884520	2968289.037200000	0.371734222	0.166639479	2968348.501900000	0.844275063	0.446609720	15.243220959
22927.365658000	26.941736993	859.290377570	790.547147370	2855538.173700000	0.357613847	0.160309656	2855595.379600000	0.812205160	0.429645189	14.664205134
43355.353257000	50.946477764	1624.907040200	1494.914477000	5399785.919800000	0.676243181	0.303143495	5399894.095400000	1.535869500	0.812453520	27.729823099

9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
902.838293650	1.179439056	113.092444360	104.045048810	125008.021900000	0.015655403	0.007017939	125010.526220000	0.131243591	0.056546222	0.586785850
1324.162830700	1.556011591	172.240528020	158.461285780	164920.713860000	0.020653876	0.009258634	164924.017770000	0.097940287	0.086120264	1.012865808
3611.353174600	4.243667976	469.746894610	432.167143040	449783.765070000	0.056328752	0.025250820	449792.775720000	0.267109873	0.234873447	2.762361294
6922.272500000	8.134298893	272.105099110	250.336691180	862149.348830000	0.107971432	0.048400987	862166.620530000	0.237659850	0.136052550	3.603560408
4362.776785700	5.126658966	187.378673530	172.388379650	543371.438340000	0.068049222	0.030504824	543382.323860000	0.176764711	0.093689337	2.926305452
32987.440030000	38.763238071	1236.329991900	1137.423592500	4108491.819900000	0.514527727	0.230650360	4108574.126600000	1.168584712	0.618164996	21.098568176
32526.924702000	38.222090735	1219.070425500	1121.544791500	4051135.945800000	0.507344754	0.227430407	4051217.103500000	1.152270892	0.609535213	20.804025344
55116.413393000	64.766791604	2065.697576500	1900.441770400	6864592.504300000	0.859688502	0.385377604	6864730.024800000	1.952506713	1.032848788	35.252126402

9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
1117.982738100	1.460496874	140.042133230	128.838762570	154797.167540000	0.019386052	0.008690299	154800.268640000	0.162518659	0.070021067	0.726615669
1639.708015900	1.926805843	213.285079380	196.222273030	204220.969070000	0.025575651	0.011464947	204225.060300000	0.121279249	0.106642540	1.254229575
4471.930952400	5.254925026	581.686580140	535.151653730	556966.279290000	0.069751774	0.031268037	556977.437170000	0.330761588	0.290843290	3.420626113
8578.884722200	10.080968713	337.224268130	310.246326680	1068475.688700000	0.133810749	0.059984129	1068497.093800000	0.294535711	0.168612134	4.465950933
5406.860119000	6.353551710	232.221433010	213.643718370	673409.047510000	0.084334506	0.037805123	673422.538120000	0.219067377	0.116110717	3.626617868
40881.870122000	48.039910430	1532.203836100	1409.627529200	5091720.631400000	0.637662568	0.285848737	5091822.635500000	1.448246011	0.766101918	26.147798167

ROGTON	COTON	SOXTON	PM10TON	PM25TON	CO2TONNE	CH4TONNE	N2OTONNE	CO2ETONNE
0.161459399	2.810324306	0.003302386	0.110470019	0.101632417	317.536237090	0.000039767	0.000017826	317.542598390
0.120088959	1.771212798	0.002081336	0.076072538	0.069986735	200.127880520	0.000025063	0.000011235	200.131889740
0.706404945	11.916326100	0.014002765	0.446609720	0.410880942	1346.415907300	0.000168619	0.000075588	1346.442880400
0.679572057	11.463682829	0.013470868	0.429645189	0.395273574	1295.272115600	0.000162214	0.000072716	1295.298064200
1.285062011	21.677676629	0.025473239	0.812453520	0.747457238	2449.342893200	0.000306744	0.000137506	2449.391961700

0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.109811512	0.451419147	0.000589720	0.056546222	0.052022524	56.703638733	0.000007101	0.000003183	56.704774695
0.081946638	0.662081415	0.000778006	0.086120264	0.079230643	74.808035806	0.000009369	0.000004200	74.809534458
0.223490831	1.805676587	0.002121834	0.234873447	0.216083572	204.021915830	0.000025551	0.000011454	204.026003070
0.198849996	3.461136250	0.004067149	0.136052550	0.125168346	391.070944630	0.000048976	0.000021955	391.078779070
0.147899034	2.181388393	0.002563329	0.093689337	0.086194190	246.473284430	0.000030867	0.000013837	246.478222100
0.977754829	16.493720015	0.019381619	0.618164996	0.568711796	1863.611889500	0.000233390	0.000104623	1863.649223800
0.964105055	16.263462351	0.019111045	0.609535213	0.560772396	1837.595265000	0.000230132	0.000103162	1837.632078100
1.633662367	27.558206696	0.032383396	1.032848788	0.950220885	3113.779160000	0.000389955	0.000174807	3113.841539300

0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.135979362	0.558991369	0.000730248	0.070021067	0.064419381	70.215995197	0.000008794	0.000003942	70.217401856
0.101474348	0.819854008	0.000963403	0.106642540	0.098111137	92.634631572	0.000011601	0.000005201	92.636487351
0.276748221	2.235965476	0.002627463	0.290843290	0.267575827	252.639904290	0.000031639	0.000014183	252.644965500
0.246438029	4.289442361	0.005040484	0.168612134	0.155123163	484.660572400	0.000060697	0.000027209	484.670281760
0.183293674	2.703430060	0.003176776	0.116110717	0.106821859	305.458343950	0.000038254	0.000017148	305.464463290
1.211747438	20.440935061	0.024019955	0.766101918	0.704813765	2309.604478400	0.000289244	0.000129661	2309.650747400

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR	STARTMO	STARTDAY	ENDYR
IPK_4AB0FNX9	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	290.00	7	10/29/2015	2015	2015	1	13	2015
IPK_4AB0FNX9	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	290.00	7	10/29/2015	2015	2015	1	13	2015
IPK_4AB0FNXE	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNXE	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	360.00	7	01/07/2016	2015	2015	1	13	2016
IPK_4AB0FNXF	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	360.00	7	01/07/2016	2015	2015	1	13	2016
IPK_4AB0FNXF	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	360.00	7	01/07/2016	2015	2015	1	13	2016
IPK_4AB0FNXG	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	359.00	7	01/06/2016	2015	2015	1	13	2016
IPK_4AB0FNXG	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	359.00	7	01/06/2016	2015	2015	1	13	2016
IPK_4AB0FNXH	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	359.00	7	01/06/2016	2015	2015	1	13	2016
IPK_4AB0FNXH	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	359.00	7	01/06/2016	2015	2015	1	13	2016
IPK_4AB0FNXH	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	359.00	7	01/06/2016	2015	2015	1	13	2016
IPK_4AB0FNXQ	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNXR	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	445.00	7	04/01/2016	2015	2015	1	13	2016
IPK_4AB0FNXR	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	445.00	7	04/01/2016	2015	2015	1	13	2016
IPK_4AB0FNXR	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	445.00	7	04/01/2016	2015	2015	1	13	2016
IPK_4AB0FNXS	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	444.00	7	03/31/2016	2015	2015	1	13	2016
IPK_4AB0FNXS	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	444.00	7	03/31/2016	2015	2015	1	13	2016
IPK_4AB0FNXT	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	444.00	7	03/31/2016	2015	2015	1	13	2016
IPK_4AB0FNXT	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	444.00	7	03/31/2016	2015	2015	1	13	2016
IPK_4AB0FNXU	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	444.00	7	03/31/2016	2015	2015	1	13	2016

ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP	CATLOAD
10	29	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1342.00	1000	751	9999	769.666670000	0.502500000
10	29	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	2274.00	1000	751	9999	769.666670000	0.502500000
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
1	7	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
1	7	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
1	7	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
1	6	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
1	6	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	180.00	250	176	250	212.472220000	0.502500000
1	6	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1361.00	1000	751	9999	769.666670000	0.502500000
1	6	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1342.00	1000	751	9999	769.666670000	0.502500000
1	6	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	2274.00	1000	751	9999	769.666670000	0.502500000
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
4	1	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
4	1	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
4	1	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
3	31	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
3	31	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	180.00	250	176	250	212.472220000	0.502500000
3	31	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1361.00	1000	751	9999	769.666670000	0.502500000
3	31	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1342.00	1000	751	9999	769.666670000	0.502500000
3	31	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	2274.00	1000	751	9999	769.666670000	0.502500000

CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	TOGGBHP	PMGBHP	NOXGBHP	ROGGBHP	COGBHP	SOXGBHP	PM10GBHP	PM25GBHP	CO2GBHP	CH4GBHP	N2OGBHP
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716
0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716
0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716
0.367000000	1286.375127100	5.535187969	7120.328126800	0.344390767	0.182534978	5.701322246	0.288151755	4.250000000	0.004994136	0.182534978	0.167932179	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716

TOGLBMG	PMLBMG	NOXLBMG	ROGLBMG	COLBMG	SOXLBMG	PM10LBMG	PM25LBMG	CO2LBMG	CH4LBMG	N2OLBMG	TOGLBD	PMLBD	NOXLBD
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	9.848469163	5.209702673	177.812182430
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	16.688091563	8.827767421	301.300225660
22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292
47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818
12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605
14.644828896	7.762094019	242.442297390	12.253328337	359.654638780	0.212370000	7.762094019	7.141126498	22508.966000000	1.278659612	0.573192240	1.510809496	0.800763562	25.011157709
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	9.987903526	5.283461504	180.329642530
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	9.848469163	5.209702673	177.812182430
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	16.688091563	8.827767421	301.300225660
22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292
47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818
12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605
14.644828896	7.762094019	242.442297390	12.253328337	359.654638780	0.212370000	7.762094019	7.141126498	22508.966000000	1.278659612	0.573192240	1.510809496	0.800763562	25.011157709
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	9.987903526	5.283461504	180.329642530
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	9.848469163	5.209702673	177.812182430
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	16.688091563	8.827767421	301.300225660

ROGLBD	COLBD	SOXLBD	PM10LBD	PM25LBD	CO2LBD	CH4LBD	N2OLBD	CO2ELBD	TOGLB	PMLB	NOXLB	ROGLB
8.240214149	139.003951720	0.163342268	5.209702673	4.792926459	17312.546777000	0.002168140	0.000971925	17312.893605000	2856.056057400	1510.813775200	51565.532903000	2389.662103200
13.962926211	235.540228170	0.276781161	8.827767421	8.121546027	29335.865403000	0.003673882	0.001646913	29336.453098000	4839.546553300	2560.052552000	87377.065441000	4049.248601100
0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051
0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	402.108022640	173.247999870	1797.811965100	336.443782540
0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	300.072368320	263.857830170	3103.248432000	251.070550580
1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	818.379186340	719.612264090	8463.404814600	684.737865210
1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	729.229794910	417.460387100	11057.078516000	610.146569400
1.264094305	18.644345238	0.021908799	0.800763562	0.736702477	2322.100163800	0.000290809	0.000130362	2322.146683200	542.380609080	287.474118790	8979.005617400	453.809855610
8.356878880	140.971965940	0.165654864	5.283461504	4.860784584	17557.657350000	0.002198836	0.000985685	17558.009088000	3585.657365700	1896.762679900	64738.341670000	3000.119517900
8.240214149	139.003951720	0.163342268	5.209702673	4.792926459	17312.546777000	0.002168140	0.000971925	17312.893605000	3535.600429600	1870.283259700	63834.573491000	2958.236879500
13.962926211	235.540228170	0.276781161	8.827767421	8.121546027	29335.865403000	0.003673882	0.001646913	29336.453098000	5991.024871100	3169.168504100	108166.781010000	5012.690509700
0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051
0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	497.050194650	214.153777620	2222.295345700	415.881897860
0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	370.922788620	326.157595620	3835.959867400	310.351097240
1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	1011.607605300	889.520715330	10461.708729000	846.412083380
1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	901.888660000	516.301982930	13675.049753000	754.610241830
1.264094305	18.644345238	0.021908799	0.800763562	0.736702477	2322.100163800	0.000290809	0.000130362	2322.146683200	670.799416240	355.539021570	11104.954023000	561.257871570
8.356878880	140.971965940	0.165654864	5.283461504	4.860784584	17557.657350000	0.002198836	0.000985685	17558.009088000	4434.629165400	2345.856907700	80066.361285000	3710.454222700
8.240214149	139.003951720	0.163342268	5.209702673	4.792926459	17312.546777000	0.002168140	0.000971925	17312.893605000	4372.720308500	2313.107986900	78948.608997000	3658.655082200
13.962926211	235.540228170	0.276781161	8.827767421	8.121546027	29335.865403000	0.003673882	0.001646913	29336.453098000	7409.512654000	3919.528734900	133777.300190000	6199.539237600

COLB	SOXLB	PM10LB	PM25LB	CO2LB	CH4LB	N2OLB	CO2ELB	TOGTON	PMTON	NOXTON
40311.145999000	47.369257749	1510.813775200	1389.948673200	5020638.565300000	0.628760592	0.281858197	5020739.145300000	1.428028029	0.755406888	25.782766452
68306.666171000	80.266536603	2560.052552000	2355.248347900	8507400.966900000	1.065425922	0.477604723	8507571.398300000	2.419773277	1.280026276	43.688532721
9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
1383.071428600	1.806800256	173.247999870	159.388159880	191501.650570000	0.023982744	0.010750885	191505.486980000	0.201054011	0.086624000	0.898905983
2028.504761900	2.383677331	263.857830170	242.749203750	252644.497820000	0.031639980	0.014183439	252649.559130000	0.150036184	0.131928915	1.551624216
5532.285714300	6.500938176	719.612264090	662.043282960	689030.448610000	0.086290855	0.038682107	689044.252170000	0.409189593	0.359806132	4.231702407
10620.067639000	12.479544028	417.460387100	384.063556130	1322699.214700000	0.165648479	0.074256215	1322725.712700000	0.364614897	0.208730194	5.528539258
6693.319940500	7.865258841	287.474118790	264.476189290	833633.958810000	0.104400302	0.046800135	833650.659260000	0.271190305	0.143737059	4.489502809
50608.935772000	59.470096014	1896.762679900	1745.021665500	6303198.988600000	0.789382282	0.353861023	6303325.262500000	1.792828683	0.948381340	32.369170835
49902.418667000	58.639874248	1870.283259700	1720.660598900	6215204.292900000	0.778362250	0.348921009	6215328.804100000	1.767800215	0.935141630	31.917286745
84558.941915000	99.364436691	3169.168504100	2915.635023800	10531575.680000000	1.318923813	0.591241709	10531786.662000000	2.995512436	1.584584252	54.083390506
9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
1709.629960300	2.233405872	214.153777620	197.021475410	236717.318060000	0.029645337	0.013289289	236722.060290000	0.248525097	0.107076889	1.111147673
2507.457275100	2.946490034	326.157595620	300.064987970	312296.670920000	0.039110531	0.017532307	312302.927260000	0.185461394	0.163078798	1.917979934
6838.519841300	8.035881912	889.520715330	818.359058110	851718.193420000	0.106665084	0.047815383	851735.256160000	0.505803803	0.444760358	5.230854365
13134.568333000	15.434310720	516.301982930	474.997824290	1635873.123400000	0.204868871	0.091837770	1635905.895400000	0.450944330	0.258150991	6.837524876
8278.089285700	9.727506756	355.539021570	327.095899850	1031012.472700000	0.129119036	0.057880947	1031033.127300000	0.335399708	0.177769511	5.552477011
62591.552877000	73.550759416	2345.856907700	2158.188355100	7795599.863300000	0.976283380	0.437644274	7795756.035000000	2.217314583	1.172928454	40.033180643
61717.754563000	72.523967036	2313.107986900	2128.059347900	7686770.769000000	0.962654148	0.431534618	7686924.760400000	2.186360154	1.156553993	39.474304498
104579.861310000	122.890835350	3919.528734900	3605.966436100	13025124.239000000	1.631203825	0.731229301	13025385.175000000	3.704756327	1.959764367	66.888650096

ROGTON	COTON	SOXTON	PM10TON	PM25TON	CO2TONNE	CH4TONNE	N2OTONNE	CO2ETONNE
1.194831052	20.155572999	0.023684629	0.755406888	0.694974337	2277.361653200	0.000285206	0.000127851	2277.407276300
2.024624301	34.153333085	0.040133268	1.280026276	1.177624174	3858.957078600	0.000483277	0.000216642	3859.034386300

0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.168221891	0.691535714	0.000903400	0.086624000	0.079694080	86.865148698	0.000010879	0.000004877	86.866888894
0.125535275	1.014252381	0.001191839	0.131928915	0.121374602	114.599544210	0.000014352	0.000006434	114.601840020
0.342368933	2.766142857	0.003250469	0.359806132	0.331021641	312.544211490	0.000039142	0.000017546	312.550472790
0.305073285	5.310033819	0.006239772	0.208730194	0.192031778	599.976363770	0.000075138	0.000033683	599.988383280
0.226904928	3.346659970	0.003932629	0.143737059	0.132238095	378.136363720	0.000047356	0.000021229	378.143939040
1.500059759	25.304467886	0.029735048	0.948381340	0.872510833	2859.131061200	0.000358064	0.000160511	2859.188339100
1.479118440	24.951209334	0.029319937	0.935141630	0.860330299	2819.216667300	0.000353065	0.000158271	2819.273145500
2.506345255	42.279470957	0.049682218	1.584584252	1.457817512	4777.122728300	0.000598264	0.000268187	4777.218429900

0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.207940949	0.854814980	0.001116703	0.107076889	0.098510738	107.374975470	0.000013447	0.000006028	107.377126550
0.155175549	1.253728638	0.001473245	0.163078798	0.150032494	141.657769930	0.000017741	0.000007953	141.660607800
0.423206042	3.419259921	0.004017941	0.444760358	0.409179529	386.339372540	0.000048383	0.000021689	386.347112190
0.377305121	6.567284167	0.007717155	0.258150991	0.237498912	742.032048780	0.000092929	0.000041658	742.046914140
0.280628936	4.139044643	0.004863753	0.177769511	0.163547950	467.667257630	0.000058568	0.000026255	467.676626560
1.855227111	31.295776438	0.036775380	1.172928454	1.079094178	3536.084098000	0.000442842	0.000198515	3536.154937500
1.829327541	30.858877282	0.036261984	1.156553993	1.064029674	3486.719220800	0.000436660	0.000195744	3486.789071300
3.099769619	52.289930655	0.061445418	1.959764367	1.802983218	5908.196354800	0.000739914	0.000331686	5908.314715500

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR	STARTMO	STARTDAY	ENDYR
IPK_4AB0FNY1	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNY2	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	550.00	7	07/15/2016	2015	2015	1	13	2016
IPK_4AB0FNY2	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	550.00	7	07/15/2016	2015	2015	1	13	2016
IPK_4AB0FNY3	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	550.00	7	07/15/2016	2015	2015	1	13	2016
IPK_4AB0FNY3	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	549.00	7	07/14/2016	2015	2015	1	13	2016
IPK_4AB0FNY4	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	549.00	7	07/14/2016	2015	2015	1	13	2016
IPK_4AB0FNY4	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	549.00	7	07/14/2016	2015	2015	1	13	2016
IPK_4AB0FNY5	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	549.00	7	07/14/2016	2015	2015	1	13	2016
IPK_4AB0FNY5	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	549.00	7	07/14/2016	2015	2015	1	13	2016

ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP	CATLOAD
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
7	15	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
7	15	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
7	15	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
7	14	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
7	14	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	180.00	250	176	250	212.472220000	0.502500000
7	14	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1361.00	1000	751	9999	769.666670000	0.502500000
7	14	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1342.00	1000	751	9999	769.666670000	0.502500000
7	14	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	2274.00	1000	751	9999	769.666670000	0.502500000

CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	TOGGBHP	PMGBHP	NOXGBHP	ROGGBHP	COGBHP	SOXGBHP	PM10GBHP	PM25GBHP	CO2GBHP	CH4GBHP	N2OGBHP
0.367000000	432.146339690	3.241135174	1400.644702100	0.530731989	0.347947797	7.621690012	0.444063456	4.250000000	0.004994136	0.347947797	0.320111973	529.325410480	0.000066290	0.000029716
0.408000000	765.434623110	0.691296092	529.141963510	1.235626057	0.532368744	5.524444142	1.033848322	4.250000000	0.005552064	0.532368744	0.489779245	588.459856880	0.000073696	0.000033036
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716
0.367000000	757.287375750	1.296594837	981.894901810	0.628693405	0.552818903	6.501737676	0.526027772	4.250000000	0.004994136	0.552818903	0.508593391	529.325410480	0.000066290	0.000029716
0.367000000	777.359571170	6.283685618	4884.683157500	0.291827391	0.167061709	4.424885537	0.244171978	4.250000000	0.004994136	0.167061709	0.153696772	529.325410480	0.000066290	0.000029716
0.367000000	1286.375127100	5.535187969	7120.328126800	0.344390767	0.182534978	5.701322246	0.288151755	4.250000000	0.004994136	0.182534978	0.167932179	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716
0.367000000	1662.223634800	20.050855080	33329.005213000	0.301113698	0.159284942	5.436548860	0.251941831	4.250000000	0.004994136	0.159284942	0.146542146	529.325410480	0.000066290	0.000029716

TOGLBMG	PMLBMG	NOXLBMG	ROGLBMG	COLBMG	SOXLBMG	PM10LBMG	PM25LBMG	CO2LBMG	CH4LBMG	N2OLBMG	TOGLBD	PMLBD	NOXLBD
22.568779181	14.796087566	324.103770470	18.883297541	627.304602530	0.212370000	14.796087566	13.612400561	22508.966000000	1.278659612	0.573192240	0.620245041	0.406632537	8.907161292
47.263487197	20.363445052	211.313522760	39.545359738	475.754225900	0.212370000	20.363445052	18.734369448	22508.966000000	1.278659612	0.573192240	1.116966730	0.481244444	4.993922125
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	0.833534356	0.732938417	8.620134533
26.734477870	23.508000290	276.479060690	22.368737634	528.903880560	0.212370000	23.508000290	21.627360266	22508.966000000	1.278659612	0.573192240	2.273275518	1.998922956	23.509457818
12.409630608	7.104110712	188.163266160	10.383137930	528.903880560	0.212370000	7.104110712	6.535781855	22508.966000000	1.278659612	0.573192240	2.031280766	1.162842304	30.799661605
14.644828896	7.762094019	242.442297390	12.253328337	359.654638780	0.212370000	7.762094019	7.141126498	22508.966000000	1.278659612	0.573192240	1.510809496	0.800763562	25.011157709
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	9.987903526	5.283461504	180.329642530
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	9.848469163	5.209702673	177.812182430
12.804520352	6.773412477	231.183107840	10.713542178	359.654638780	0.212370000	6.773412477	6.231539478	22508.966000000	1.278659612	0.573192240	16.688091563	8.827767421	301.300225660

ROGLBD	COLBD	SOXLBD	PM10LBD	PM25LBD	CO2LBD	CH4LBD	N2OLBD	CO2ELBD	TOGLB	PMLB	NOXLB	ROGLB
0.518959026	4.966803351	0.005836445	0.406632537	0.374101934	618.601228830	0.000077471	0.000034728	618.613621460	1.240490082	0.813265074	17.814322584	1.037918051
0.934566063	3.841865079	0.005018890	0.481244444	0.442744889	531.949029360	0.000066619	0.000029864	531.959686060	614.331701250	264.684444250	2746.657168800	514.011334440
0.697418196	5.634735450	0.006621326	0.732938417	0.674303344	701.790271730	0.000087889	0.000039398	701.804330920	458.443896050	403.116129420	4741.073993400	383.580007820
1.902049626	15.367460317	0.018058162	1.998922956	1.839009119	1913.973468400	0.000239697	0.000107450	1914.011811600	1250.301534700	1099.407625700	12930.201800000	1046.127294100
1.699572617	29.582361111	0.034761961	1.162842304	1.069814920	3684.398926600	0.000461416	0.000206842	3684.472737300	1115.173140400	638.400424830	16909.014221000	933.065366580
1.264094305	18.644345238	0.021908799	0.800763562	0.736702477	2322.100163800	0.000290809	0.000130362	2322.146683200	829.434413320	439.619195590	13731.125582000	693.987773630
8.356878880	140.971965940	0.165654864	5.283461504	4.860784584	17557.657350000	0.002198836	0.000985685	17558.009088000	5483.359035500	2900.620365600	99000.973751000	4587.926505000
8.240214149	139.003951720	0.163342268	5.209702673	4.792926459	17312.546777000	0.002168140	0.000971925	17312.893605000	5406.809570700	2860.126767600	97618.888151000	4523.877567800
13.962926211	235.540228170	0.276781161	8.827767421	8.121546027	29335.865403000	0.003673882	0.001646913	29336.453098000	9161.762268100	4846.444314000	165413.823890000	7665.646489700

COLB	SOXLB	PM10LB	PM25LB	CO2LB	CH4LB	N2OLB	CO2ELB	TOGTON	PMTON	NOXTON
9.933606702	0.011672890	0.813265074	0.748203868	1237.202457700	0.000154941	0.000069456	1237.227242900	0.000620245	0.000406633	0.008907161
2113.025793700	2.760389280	264.684444250	243.509688710	292571.966150000	0.036640304	0.016424964	292577.827330000	0.307165851	0.132342222	1.373328584
3099.104497400	3.641729256	403.116129420	370.866839070	385984.649450000	0.048338858	0.021669143	385992.382000000	0.229221948	0.201558065	2.370536997
8452.103174600	9.931988880	1099.407625700	1011.455015600	1052685.407600000	0.131833250	0.059097664	1052706.496400000	0.625150767	0.549703813	6.465100900
16240.716250000	19.084316633	638.400424830	587.328390850	2022735.010700000	0.253317590	0.113556161	2022775.532800000	0.557586570	0.319200212	8.454507111
10235.745536000	12.027930651	439.619195590	404.449659940	1274832.989900000	0.159653943	0.071569009	1274858.529100000	0.414717207	0.219809598	6.865562791
77393.609301000	90.944520089	2900.620365600	2668.570736400	9639153.885100000	1.207161206	0.541141230	9639346.989200000	2.741679518	1.450310183	49.500486876
76313.169494000	89.674905187	2860.126767600	2631.316626200	9504588.180600000	1.190308845	0.533586724	9504778.588900000	2.703404785	1.430063384	48.809444076
129311.585270000	151.952857220	4846.444314000	4458.728768900	16105390.106000000	2.016961486	0.904155149	16105712.751000000	4.580881134	2.423222157	82.706911943

ROGTON	COTON	SOXTON	PM10TON	PM25TON	CO2TONNE	CH4TONNE	N2OTONNE	CO2ETONNE
0.000518959	0.004966803	0.000005836	0.000406633	0.000374102	0.561195035	0.000000070	0.000000032	0.561206277
0.257005667	1.056512897	0.001380195	0.132342222	0.121754844	132.710643840	0.000016620	0.000007450	132.713302480
0.191790004	1.549552249	0.001820865	0.201558065	0.185433420	175.082636990	0.000021927	0.000009829	175.086144480
0.523063647	4.226051587	0.004965994	0.549703813	0.505727508	477.498100890	0.000059800	0.000026807	477.507666760
0.466532683	8.120358125	0.009542158	0.319200212	0.293664195	917.512600860	0.000114905	0.000051509	917.530981670
0.346993887	5.117872768	0.006013965	0.219809598	0.202224830	578.264244240	0.000072419	0.000032464	578.275828780
2.293963253	38.696804650	0.045472260	1.450310183	1.334285368	4372.320202300	0.000547568	0.000245462	4372.407794300
2.261938784	38.156584747	0.044837453	1.430063384	1.315658313	4311.281198700	0.000539924	0.000242035	4311.367567900
3.832823245	64.655792634	0.075976429	2.423222157	2.229364384	7305.404952200	0.000914894	0.000410125	7305.551303600

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR	STARTMO	STARTDAY	ENDYR
IPK_4AB0FNRG	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNRG	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015	2015	1	13	2015
IPK_4AB0FNRG	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015	2015	1	13	2015
IPK_4AB0FNRG	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015	2015	1	13	2015
IPK_4AB0FNRG	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	3.00	7	01/15/2015	2015	2015	1	13	2015
IPK_4AB0FNRH	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	3.00	7	01/15/2015	2015	2015	1	13	2015
IPK_4AB0FNRH	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	3.00	7	01/15/2015	2015	2015	1	13	2015
IPK_4AB0FNRH	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	3.00	7	01/15/2015	2015	2015	1	13	2015
IPK_4AB0FNRH	KCOGW	SJV	Kern	001000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	3.00	7	01/15/2015	2015	2015	1	13	2015
IPK_4AB0FNRQ	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNRQ	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015	2015	1	13	2015
IPK_4AB0FNRQ	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015	2015	1	13	2015
IPK_4AB0FNRQ	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015	2015	1	13	2015
IPK_4AB0FNRR	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015	2015	1	13	2015
IPK_4AB0FNRR	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015	2015	1	13	2015
IPK_4AB0FNRR	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015	2015	1	13	2015
IPK_4AB0FNRR	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015	2015	1	13	2015
IPK_4AB0FNRS	KCOGW	SJV	Kern	002000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	4.00	7	01/16/2015	2015	2015	1	13	2015
IPK_4AB0FNS1	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNS1	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015	2015	1	13	2015
IPK_4AB0FNS1	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015	2015	1	13	2015

ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP	CATLOAD
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
1	16	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
1	16	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
1	16	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
1	15	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
1	15	DSL	Rotary Table or Top Drive	4	Oil Drilling	34	Driling Rig	22.00	1.00	135.00	175	121	175	150.479170000	0.502500000
1	15	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	455.00	500	251	500	367.025640000	0.502500000
1	15	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	442.00	500	251	500	367.025640000	0.502500000
1	15	DSL	Diesel Engine For Mud Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	424.00	500	251	500	367.025640000	0.502500000
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
1	17	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
1	17	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
1	17	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
1	16	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
1	16	DSL	Rotary Table or Top Drive	4	Oil Drilling	34	Driling Rig	22.00	1.00	135.00	175	121	175	150.479170000	0.502500000
1	16	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	455.00	500	251	500	367.025640000	0.502500000
1	16	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	442.00	500	251	500	367.025640000	0.502500000
1	16	DSL	Diesel Engine For Mud Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	424.00	500	251	500	367.025640000	0.502500000
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
1	18	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
1	18	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000

CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	NOXGBHP	Tier 4i NOXG	% Reduction f	Tier 4f NOXG	% Reduction f	ROGGBHP	Tier 4i ROGG	% Reduction for Tier 4i	ROGGBHP	Tier 4f ROGG
0.367000000	432.146339690	3.241135174	1400.644702100	7.621690012	1.500000000	0.803193255	0.290000000	0.961950696	0.444063456	0.140000000		0.684729743	0.140000000
0.408000000	765.434623110	0.691296092	529.141963510	5.524444142	-	#VALUE!	-	#VALUE!	1.033848322	-	#VALUE!		-
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676	2.500000000	0.615487409	0.290000000	0.955396539	0.526027772	0.140000000		0.733854356	0.140000000
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676	2.500000000	0.615487409	0.290000000	0.955396539	0.526027772	0.140000000		0.733854356	0.140000000
0.367000000	777.359571170	6.283685618	4884.683157500	4.424885537	1.500000000	0.661008180	0.290000000	0.934461582	0.244171978	0.140000000		0.426633633	0.140000000
0.367000000	1249.795948400	3.920185384	4899.431810100	7.200925017	2.500000000	0.652822381	0.290000000	0.959727396	0.506455132	0.140000000		0.723568800	0.140000000
0.367000000	1315.004200600	9.561513062	12573.429840000	4.895160585	1.500000000	0.693574915	0.290000000	0.940757817	0.243522103	0.140000000		0.425103519	0.140000000
0.367000000	1315.004200600	9.561513062	12573.429840000	4.895160585	1.500000000	0.693574915	0.290000000	0.940757817	0.243522103	0.140000000		0.425103519	0.140000000
0.367000000	1315.004200600	9.561513062	12573.429840000	4.895160585	1.500000000	0.693574915	0.290000000	0.940757817	0.243522103	0.140000000		0.425103519	0.140000000

0.367000000	432.146339690	3.241135174	1400.644702100	7.621690012	1.500000000	0.803193255	0.290000000	0.961950696	0.444063456	0.140000000		0.684729743	0.140000000
0.408000000	765.434623110	0.691296092	529.141963510	5.524444142	-	#VALUE!	-	#VALUE!	1.033848322	-	#VALUE!		-
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676	2.500000000	0.615487409	0.290000000	0.955396539	0.526027772	0.140000000		0.733854356	0.140000000
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676	2.500000000	0.615487409	0.290000000	0.955396539	0.526027772	0.140000000		0.733854356	0.140000000
0.367000000	777.359571170	6.283685618	4884.683157500	4.424885537	1.500000000	0.661008180	0.290000000	0.934461582	0.244171978	0.140000000		0.426633633	0.140000000
0.367000000	1249.795948400	3.920185384	4899.431810100	7.200925017	2.500000000	0.652822381	0.290000000	0.959727396	0.506455132	0.140000000		0.723568800	0.140000000
0.367000000	1315.004200600	9.561513062	12573.429840000	4.895160585	1.500000000	0.693574915	0.290000000	0.940757817	0.243522103	0.140000000		0.425103519	0.140000000
0.367000000	1315.004200600	9.561513062	12573.429840000	4.895160585	1.500000000	0.693574915	0.290000000	0.940757817	0.243522103	0.140000000		0.425103519	0.140000000
0.367000000	1315.004200600	9.561513062	12573.429840000	4.895160585	1.500000000	0.693574915	0.290000000	0.940757817	0.243522103	0.140000000		0.425103519	0.140000000

0.367000000	432.146339690	3.241135174	1400.644702100	7.621690012	1.500000000	0.803193255	0.290000000	0.961950696	0.444063456	0.140000000		0.684729743	0.140000000
0.408000000	765.434623110	0.691296092	529.141963510	5.524444142	-	#VALUE!	-	#VALUE!	1.033848322	-	#VALUE!		-
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676	2.500000000	0.615487409	0.290000000	0.955396539	0.526027772	0.140000000		0.733854356	0.140000000

% Reduction f	COGBHP	SOXGBHP	PM10GBHP	Tier 4i PM10(	% Reduction f	Tier 4f PM10(	% Reduction f	PM25GBHP
0.684729743	4.250000000	0.004994136	0.347947797	0.010000000	0.971260057	0.010000000	0.971260057	0.320111973
#VALUE!	4.250000000	0.005552064	0.532368744	0.220000000	0.586752599	0.022000000	0.958675260	0.489779245
0.733854356	4.250000000	0.004994136	0.552818903	0.010000000	0.981910894	0.010000000	0.981910894	0.508593391
0.733854356	4.250000000	0.004994136	0.552818903	0.010000000	0.981910894	0.010000000	0.981910894	0.508593391
0.426633633	4.250000000	0.004994136	0.167061709	0.010000000	0.940141879	0.010000000	0.940141879	0.153696772
0.723568800	4.250000000	0.004994136	0.427684380	0.010000000	0.976618272	0.010000000	0.976618272	0.393469630
0.425103519	4.250000000	0.004994136	0.151943144	0.010000000	0.934185908	0.010000000	0.934185908	0.139787692
0.425103519	4.250000000	0.004994136	0.151943144	0.010000000	0.934185908	0.010000000	0.934185908	0.139787692
0.425103519	4.250000000	0.004994136	0.151943144	0.010000000	0.934185908	0.010000000	0.934185908	0.139787692

0.684729743	4.250000000	0.004994136	0.347947797	0.010000000	0.971260057	0.010000000	0.971260057	0.320111973
#VALUE!	4.250000000	0.005552064	0.532368744	0.220000000	0.586752599	0.022000000	0.958675260	0.489779245
0.733854356	4.250000000	0.004994136	0.552818903	0.010000000	0.981910894	0.010000000	0.981910894	0.508593391
0.733854356	4.250000000	0.004994136	0.552818903	0.010000000	0.981910894	0.010000000	0.981910894	0.508593391
0.426633633	4.250000000	0.004994136	0.167061709	0.010000000	0.940141879	0.010000000	0.940141879	0.153696772
0.723568800	4.250000000	0.004994136	0.427684380	0.010000000	0.976618272	0.010000000	0.976618272	0.393469630
0.425103519	4.250000000	0.004994136	0.151943144	0.010000000	0.934185908	0.010000000	0.934185908	0.139787692
0.425103519	4.250000000	0.004994136	0.151943144	0.010000000	0.934185908	0.010000000	0.934185908	0.139787692
0.425103519	4.250000000	0.004994136	0.151943144	0.010000000	0.934185908	0.010000000	0.934185908	0.139787692

0.684729743	4.250000000	0.004994136	0.347947797	0.010000000	0.971260057	0.010000000	0.971260057	0.320111973
#VALUE!	4.250000000	0.005552064	0.532368744	0.220000000	0.586752599	0.022000000	0.958675260	0.489779245
0.733854356	4.250000000	0.004994136	0.552818903	0.010000000	0.981910894	0.010000000	0.981910894	0.508593391

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR	STARTMO	STARTDAY	ENDYR
IPK_4AB0FNS1	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015	2015	1	13	2015
IPK_4AB0FNS1	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015	2015	1	13	2015
IPK_4AB0FNS2	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015	2015	1	13	2015
IPK_4AB0FNS2	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015	2015	1	13	2015
IPK_4AB0FNS2	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015	2015	1	13	2015
IPK_4AB0FNS2	KCOGW	SJV	Kern	003000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	5.00	7	01/17/2015	2015	2015	1	13	2015
IPK_4AB0FNSB	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNSB	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	7.00	7	01/19/2015	2015	2015	1	13	2015
IPK_4AB0FNSB	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	7.00	7	01/19/2015	2015	2015	1	13	2015
IPK_4AB0FNSC	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	7.00	7	01/19/2015	2015	2015	1	13	2015
IPK_4AB0FNSC	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015	2015	1	13	2015
IPK_4AB0FNSC	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015	2015	1	13	2015
IPK_4AB0FNSC	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015	2015	1	13	2015
IPK_4AB0FNSC	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015	2015	1	13	2015
IPK_4AB0FNSC	KCOGW	SJV	Kern	004000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	6.00	7	01/18/2015	2015	2015	1	13	2015
IPK_4AB0FNSL	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNSM	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	9.00	7	01/21/2015	2015	2015	1	13	2015
IPK_4AB0FNSM	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	9.00	7	01/21/2015	2015	2015	1	13	2015
IPK_4AB0FNSM	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	9.00	7	01/21/2015	2015	2015	1	13	2015
IPK_4AB0FNSM	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	8.00	7	01/20/2015	2015	2015	1	13	2015
IPK_4AB0FNSM	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	8.00	7	01/20/2015	2015	2015	1	13	2015

ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP	CATLOAD
1	18	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
1	17	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
1	17	DSL	Rotary Table or Top Drive	4	Oil Drilling	34	Driling Rig	22.00	1.00	135.00	175	121	175	150.479170000	0.502500000
1	17	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	455.00	500	251	500	367.025640000	0.502500000
1	17	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	442.00	500	251	500	367.025640000	0.502500000
1	17	DSL	Diesel Engine For Mud Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	424.00	500	251	500	367.025640000	0.502500000
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
1	19	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
1	19	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
1	19	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
1	18	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
1	18	DSL	Rotary Table or Top Drive	4	Oil Drilling	34	Driling Rig	22.00	1.00	135.00	175	121	175	150.479170000	0.502500000
1	18	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	455.00	500	251	500	367.025640000	0.502500000
1	18	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	442.00	500	251	500	367.025640000	0.502500000
1	18	DSL	Diesel Engine For Mud Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	424.00	500	251	500	367.025640000	0.502500000
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
1	21	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
1	21	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
1	21	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
1	20	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
1	20	DSL	Rotary Table or Top Drive	4	Oil Drilling	34	Driling Rig	22.00	1.00	135.00	175	121	175	150.479170000	0.502500000

CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	NOXGBHP	Tier 4i NOXG	% Reduction f	Tier 4f NOXG	% Reduction f	ROGGBHP	Tier 4i ROGG	% Reduction for Tier 4i	ROGGBHP	Tier 4f ROGG
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676	2.500000000	0.615487409	0.290000000	0.955396539	0.526027772	0.140000000		0.733854356	0.140000000
0.367000000	777.359571170	6.283685618	4884.683157500	4.424885537	1.500000000	0.661008180	0.290000000	0.934461582	0.244171978	0.140000000		0.426633633	0.140000000
0.367000000	1249.795948400	3.920185384	4899.431810100	7.200925017	2.500000000	0.652822381	0.290000000	0.959727396	0.506455132	0.140000000		0.723568800	0.140000000
0.367000000	1315.004200600	9.561513062	12573.429840000	4.895160585	1.500000000	0.693574915	0.290000000	0.940757817	0.243522103	0.140000000		0.425103519	0.140000000
0.367000000	1315.004200600	9.561513062	12573.429840000	4.895160585	1.500000000	0.693574915	0.290000000	0.940757817	0.243522103	0.140000000		0.425103519	0.140000000
0.367000000	1315.004200600	9.561513062	12573.429840000	4.895160585	1.500000000	0.693574915	0.290000000	0.940757817	0.243522103	0.140000000		0.425103519	0.140000000
0.367000000	432.146339690	3.241135174	1400.644702100	7.621690012	1.500000000	0.803193255	0.290000000	0.961950696	0.444063456	0.140000000		0.684729743	0.140000000
0.408000000	765.434623110	0.691296092	529.141963510	5.524444142	-	#VALUE!	-	#VALUE!	1.033848322	-	#VALUE!		-
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676	2.500000000	0.615487409	0.290000000	0.955396539	0.526027772	0.140000000		0.733854356	0.140000000
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676	2.500000000	0.615487409	0.290000000	0.955396539	0.526027772	0.140000000		0.733854356	0.140000000
0.367000000	777.359571170	6.283685618	4884.683157500	4.424885537	1.500000000	0.661008180	0.290000000	0.934461582	0.244171978	0.140000000		0.426633633	0.140000000
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676	2.500000000	0.615487409	0.290000000	0.955396539	0.526027772	0.140000000		0.733854356	0.140000000
0.367000000	777.359571170	6.283685618	4884.683157500	4.424885537	1.500000000	0.661008180	0.290000000	0.934461582	0.244171978	0.140000000		0.426633633	0.140000000
0.367000000	1249.795948400	3.920185384	4899.431810100	7.200925017	2.500000000	0.652822381	0.290000000	0.959727396	0.506455132	0.140000000		0.723568800	0.140000000
0.367000000	1315.004200600	9.561513062	12573.429840000	4.895160585	1.500000000	0.693574915	0.290000000	0.940757817	0.243522103	0.140000000		0.425103519	0.140000000
0.367000000	1315.004200600	9.561513062	12573.429840000	4.895160585	1.500000000	0.693574915	0.290000000	0.940757817	0.243522103	0.140000000		0.425103519	0.140000000
0.367000000	1315.004200600	9.561513062	12573.429840000	4.895160585	1.500000000	0.693574915	0.290000000	0.940757817	0.243522103	0.140000000		0.425103519	0.140000000

% Reduction f	COGBHP	SOXGBHP	PM10GBHP	Tier 4i PM10(	% Reduction f	Tier 4f PM10(	% Reduction f	PM25GBHP
0.733854356	4.250000000	0.004994136	0.552818903	0.010000000	0.981910894	0.010000000	0.981910894	0.508593391
0.426633633	4.250000000	0.004994136	0.167061709	0.010000000	0.940141879	0.010000000	0.940141879	0.153696772
0.723568800	4.250000000	0.004994136	0.427684380	0.010000000	0.976618272	0.010000000	0.976618272	0.393469630
0.425103519	4.250000000	0.004994136	0.151943144	0.010000000	0.934185908	0.010000000	0.934185908	0.139787692
0.425103519	4.250000000	0.004994136	0.151943144	0.010000000	0.934185908	0.010000000	0.934185908	0.139787692
0.425103519	4.250000000	0.004994136	0.151943144	0.010000000	0.934185908	0.010000000	0.934185908	0.139787692
0.684729743	4.250000000	0.004994136	0.347947797	0.010000000	0.971260057	0.010000000	0.971260057	0.320111973
#VALUE!	4.250000000	0.005552064	0.532368744	0.220000000	0.586752599	0.022000000	0.958675260	0.489779245
0.733854356	4.250000000	0.004994136	0.552818903	0.010000000	0.981910894	0.010000000	0.981910894	0.508593391
0.733854356	4.250000000	0.004994136	0.552818903	0.010000000	0.981910894	0.010000000	0.981910894	0.508593391
0.426633633	4.250000000	0.004994136	0.167061709	0.010000000	0.940141879	0.010000000	0.940141879	0.153696772
0.723568800	4.250000000	0.004994136	0.427684380	0.010000000	0.976618272	0.010000000	0.976618272	0.393469630
0.425103519	4.250000000	0.004994136	0.151943144	0.010000000	0.934185908	0.010000000	0.934185908	0.139787692
0.425103519	4.250000000	0.004994136	0.151943144	0.010000000	0.934185908	0.010000000	0.934185908	0.139787692
0.425103519	4.250000000	0.004994136	0.151943144	0.010000000	0.934185908	0.010000000	0.934185908	0.139787692

0.684729743	4.250000000	0.004994136	0.347947797	0.010000000	0.971260057	0.010000000	0.971260057	0.320111973
#VALUE!	4.250000000	0.005552064	0.532368744	0.220000000	0.586752599	0.022000000	0.958675260	0.489779245
0.733854356	4.250000000	0.004994136	0.552818903	0.010000000	0.981910894	0.010000000	0.981910894	0.508593391
0.733854356	4.250000000	0.004994136	0.552818903	0.010000000	0.981910894	0.010000000	0.981910894	0.508593391
0.426633633	4.250000000	0.004994136	0.167061709	0.010000000	0.940141879	0.010000000	0.940141879	0.153696772
0.723568800	4.250000000	0.004994136	0.427684380	0.010000000	0.976618272	0.010000000	0.976618272	0.393469630

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR	STARTMO	STARTDAY	ENDYR
IPK_4AB0FNSM	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	8.00	7	01/20/2015	2015	2015	1	13	2015
IPK_4AB0FNSN	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	8.00	7	01/20/2015	2015	2015	1	13	2015
IPK_4AB0FNSN	KCOGW	SJV	Kern	005000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	8.00	7	01/20/2015	2015	2015	1	13	2015
IPK_4AB0FNSW	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNSW	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	11.00	7	01/23/2015	2015	2015	1	13	2015
IPK_4AB0FNSW	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	11.00	7	01/23/2015	2015	2015	1	13	2015
IPK_4AB0FNSW	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	11.00	7	01/23/2015	2015	2015	1	13	2015
IPK_4AB0FNSX	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	10.00	7	01/22/2015	2015	2015	1	13	2015
IPK_4AB0FNSX	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	10.00	7	01/22/2015	2015	2015	1	13	2015
IPK_4AB0FNSX	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	10.00	7	01/22/2015	2015	2015	1	13	2015
IPK_4AB0FNSX	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	10.00	7	01/22/2015	2015	2015	1	13	2015
IPK_4AB0FNSX	KCOGW	SJV	Kern	006000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	10.00	7	01/22/2015	2015	2015	1	13	2015
IPK_4AB0FNT6	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNT6	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	13.00	7	01/25/2015	2015	2015	1	13	2015
IPK_4AB0FNT6	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	13.00	7	01/25/2015	2015	2015	1	13	2015
IPK_4AB0FNT7	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	13.00	7	01/25/2015	2015	2015	1	13	2015
IPK_4AB0FNT7	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	12.00	7	01/24/2015	2015	2015	1	13	2015
IPK_4AB0FNT7	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	12.00	7	01/24/2015	2015	2015	1	13	2015
IPK_4AB0FNT7	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	12.00	7	01/24/2015	2015	2015	1	13	2015
IPK_4AB0FNT7	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	12.00	7	01/24/2015	2015	2015	1	13	2015
IPK_4AB0FNT8	KCOGW	SJV	Kern	007000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	12.00	7	01/24/2015	2015	2015	1	13	2015

ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP	CATLOAD
1	20	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	455.00	500	251	500	367.025640000	0.502500000
1	20	DSL	Diesel Engine For Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	442.00	500	251	500	367.025640000	0.502500000
1	20	DSL	Diesel Engine For Mud Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	424.00	500	251	500	367.025640000	0.502500000
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
1	23	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
1	23	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
1	23	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
1	22	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
1	22	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	144.00	175	121	175	150.479170000	0.502500000
1	22	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	996.00	1000	751	9999	769.666670000	0.502500000
1	22	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	981.00	1000	751	9999	769.666670000	0.502500000
1	22	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1145.00	1000	751	9999	769.666670000	0.502500000
1	25	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
1	25	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
1	25	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
1	24	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
1	24	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	144.00	175	121	175	150.479170000	0.502500000
1	24	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	996.00	1000	751	9999	769.666670000	0.502500000
1	24	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	981.00	1000	751	9999	769.666670000	0.502500000
1	24	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1145.00	1000	751	9999	769.666670000	0.502500000

CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	NOXGBHP	Tier 4i NOXG	% Reduction f	Tier 4f NOXG	% Reduction f	ROGGBHP	Tier 4i ROGG	% Reduction for Tier 4i ROGGBHP	Tier 4f ROGG
0.367000000	1315.004200600	9.561513062	12573.429840000	4.895160585	1.500000000	0.693574915	0.290000000	0.940757817	0.243522103	0.140000000	0.425103519	0.140000000
0.367000000	1315.004200600	9.561513062	12573.429840000	4.895160585	1.500000000	0.693574915	0.290000000	0.940757817	0.243522103	0.140000000	0.425103519	0.140000000
0.367000000	1315.004200600	9.561513062	12573.429840000	4.895160585	1.500000000	0.693574915	0.290000000	0.940757817	0.243522103	0.140000000	0.425103519	0.140000000
0.367000000	432.146339690	3.241135174	1400.644702100	7.621690012	1.500000000	0.803193255	0.290000000	0.961950696	0.444063456	0.140000000	0.684729743	0.140000000
0.408000000	765.434623110	0.691296092	529.141963510	5.524444142	-	#VALUE!	-	#VALUE!	1.033848322	-	#VALUE!	-
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676	2.500000000	0.615487409	0.290000000	0.955396539	0.526027772	0.140000000	0.733854356	0.140000000
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676	2.500000000	0.615487409	0.290000000	0.955396539	0.526027772	0.140000000	0.733854356	0.140000000
0.367000000	777.359571170	6.283685618	4884.683157500	4.424885537	1.500000000	0.661008180	0.290000000	0.934461582	0.244171978	0.140000000	0.426633633	0.140000000
0.367000000	1249.795948400	3.920185384	4899.431810100	7.200925017	2.500000000	0.652822381	0.290000000	0.959727396	0.506455132	0.140000000	0.723568800	0.140000000
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860	2.600000000	0.521755425	2.600000000	0.521755425	0.251941831	0.300000000	-0.190751051	0.140000000
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860	2.600000000	0.521755425	2.600000000	0.521755425	0.251941831	0.300000000	-0.190751051	0.140000000
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860	2.600000000	0.521755425	2.600000000	0.521755425	0.251941831	0.300000000	-0.190751051	0.140000000

CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	NOXGBHP	Tier 4i NOXG	% Reduction f	Tier 4f NOXG	% Reduction f	ROGGBHP	Tier 4i ROGG	% Reduction for Tier 4i ROGGBHP	Tier 4f ROGG
0.367000000	432.146339690	3.241135174	1400.644702100	7.621690012	1.500000000	0.803193255	0.290000000	0.961950696	0.444063456	0.140000000	0.684729743	0.140000000
0.408000000	765.434623110	0.691296092	529.141963510	5.524444142	-	#VALUE!	-	#VALUE!	1.033848322	-	#VALUE!	-
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676	2.500000000	0.615487409	0.290000000	0.955396539	0.526027772	0.140000000	0.733854356	0.140000000
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676	2.500000000	0.615487409	0.290000000	0.955396539	0.526027772	0.140000000	0.733854356	0.140000000
0.367000000	777.359571170	6.283685618	4884.683157500	4.424885537	1.500000000	0.661008180	0.290000000	0.934461582	0.244171978	0.140000000	0.426633633	0.140000000
0.367000000	1249.795948400	3.920185384	4899.431810100	7.200925017	2.500000000	0.652822381	0.290000000	0.959727396	0.506455132	0.140000000	0.723568800	0.140000000
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860	2.600000000	0.521755425	2.600000000	0.521755425	0.251941831	0.300000000	-0.190751051	0.140000000
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860	2.600000000	0.521755425	2.600000000	0.521755425	0.251941831	0.300000000	-0.190751051	0.140000000
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860	2.600000000	0.521755425	2.600000000	0.521755425	0.251941831	0.300000000	-0.190751051	0.140000000

% Reduction f	COGBHP	SOXGBHP	PM10GBHP	Tier 4i PM10	% Reduction f	Tier 4f PM10	% Reduction f	PM25GBHP
0.425103519	4.250000000	0.004994136	0.151943144	0.010000000	0.934185908	0.010000000	0.934185908	0.139787692
0.425103519	4.250000000	0.004994136	0.151943144	0.010000000	0.934185908	0.010000000	0.934185908	0.139787692
0.425103519	4.250000000	0.004994136	0.151943144	0.010000000	0.934185908	0.010000000	0.934185908	0.139787692
0.684729743	4.250000000	0.004994136	0.347947797	0.010000000	0.971260057	0.010000000	0.971260057	0.320111973
#VALUE!	4.250000000	0.005552064	0.532368744	0.220000000	0.586752599	0.022000000	0.958675260	0.489779245
0.733854356	4.250000000	0.004994136	0.552818903	0.010000000	0.981910894	0.010000000	0.981910894	0.508593391
0.733854356	4.250000000	0.004994136	0.552818903	0.010000000	0.981910894	0.010000000	0.981910894	0.508593391
0.426633633	4.250000000	0.004994136	0.167061709	0.010000000	0.940141879	0.010000000	0.940141879	0.153696772
0.723568800	4.250000000	0.004994136	0.427684380	0.010000000	0.976618272	0.010000000	0.976618272	0.393469630
0.444316176	4.250000000	0.004994136	0.159284942	0.070000000	0.560535986	0.030000000	0.811658280	0.146542146
0.444316176	4.250000000	0.004994136	0.159284942	0.070000000	0.560535986	0.030000000	0.811658280	0.146542146
0.444316176	4.250000000	0.004994136	0.159284942	0.070000000	0.560535986	0.030000000	0.811658280	0.146542146

0.684729743	4.250000000	0.004994136	0.347947797	0.010000000	0.971260057	0.010000000	0.971260057	0.320111973
#VALUE!	4.250000000	0.005552064	0.532368744	0.220000000	0.586752599	0.022000000	0.958675260	0.489779245
0.733854356	4.250000000	0.004994136	0.552818903	0.010000000	0.981910894	0.010000000	0.981910894	0.508593391
0.733854356	4.250000000	0.004994136	0.552818903	0.010000000	0.981910894	0.010000000	0.981910894	0.508593391
0.426633633	4.250000000	0.004994136	0.167061709	0.010000000	0.940141879	0.010000000	0.940141879	0.153696772
0.723568800	4.250000000	0.004994136	0.427684380	0.010000000	0.976618272	0.010000000	0.976618272	0.393469630
0.444316176	4.250000000	0.004994136	0.159284942	0.070000000	0.560535986	0.030000000	0.811658280	0.146542146
0.444316176	4.250000000	0.004994136	0.159284942	0.070000000	0.560535986	0.030000000	0.811658280	0.146542146
0.444316176	4.250000000	0.004994136	0.159284942	0.070000000	0.560535986	0.030000000	0.811658280	0.146542146

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR	STARTMO	STARTDAY	ENDYR
IPK_4AB0FNTG	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNTG	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	16.00	7	01/28/2015	2015	2015	1	13	2015
IPK_4AB0FNTH	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	16.00	7	01/28/2015	2015	2015	1	13	2015
IPK_4AB0FNTH	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	16.00	7	01/28/2015	2015	2015	1	13	2015
IPK_4AB0FNTH	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	15.00	7	01/27/2015	2015	2015	1	13	2015
IPK_4AB0FNTH	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	15.00	7	01/27/2015	2015	2015	1	13	2015
IPK_4AB0FNTI	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	15.00	7	01/27/2015	2015	2015	1	13	2015
IPK_4AB0FNTI	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	15.00	7	01/27/2015	2015	2015	1	13	2015
IPK_4AB0FNTI	KCOGW	SJV	Kern	008000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	15.00	7	01/27/2015	2015	2015	1	13	2015
IPK_4AB0FNTR	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNTR	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	19.00	7	01/31/2015	2015	2015	1	13	2015
IPK_4AB0FNTR	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	19.00	7	01/31/2015	2015	2015	1	13	2015
IPK_4AB0FNTR	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	19.00	7	01/31/2015	2015	2015	1	13	2015
IPK_4AB0FNTS	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	18.00	7	01/30/2015	2015	2015	1	13	2015
IPK_4AB0FNTS	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	18.00	7	01/30/2015	2015	2015	1	13	2015
IPK_4AB0FNTS	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	18.00	7	01/30/2015	2015	2015	1	13	2015
IPK_4AB0FNTS	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	18.00	7	01/30/2015	2015	2015	1	13	2015
IPK_4AB0FNTS	KCOGW	SJV	Kern	009000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	18.00	7	01/30/2015	2015	2015	1	13	2015

ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP	CATLOAD
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
1	28	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
1	28	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
1	28	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
1	27	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
1	27	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	144.00	175	121	175	150.479170000	0.502500000
1	27	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	996.00	1000	751	9999	769.666670000	0.502500000
1	27	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	981.00	1000	751	9999	769.666670000	0.502500000
1	27	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1145.00	1000	751	9999	769.666670000	0.502500000
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
1	31	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
1	31	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
1	31	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
1	30	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
1	30	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	144.00	175	121	175	150.479170000	0.502500000
1	30	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	996.00	1000	751	9999	769.666670000	0.502500000
1	30	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	981.00	1000	751	9999	769.666670000	0.502500000
1	30	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1145.00	1000	751	9999	769.666670000	0.502500000

CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	NOXGBHP	Tier 4i NOXG	% Reduction f	Tier 4f NOXG	% Reduction f	ROGGBHP	Tier 4i ROGG	% Reduction for Tier 4i ROGGBHP	Tier 4f ROGG
0.367000000	432.146339690	3.241135174	1400.644702100	7.621690012	1.500000000	0.803193255	0.290000000	0.961950696	0.444063456	0.140000000	0.684729743	0.140000000
0.408000000	765.434623110	0.691296092	529.141963510	5.524444142	-	#VALUE!	-	#VALUE!	1.033848322	-	#VALUE!	-
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676	2.500000000	0.615487409	0.290000000	0.955396539	0.526027772	0.140000000	0.733854356	0.140000000
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676	2.500000000	0.615487409	0.290000000	0.955396539	0.526027772	0.140000000	0.733854356	0.140000000
0.367000000	777.359571170	6.283685618	4884.683157500	4.424885537	1.500000000	0.661008180	0.290000000	0.934461582	0.244171978	0.140000000	0.426633633	0.140000000
0.367000000	1249.795948400	3.920185384	4899.431810100	7.200925017	2.500000000	0.652822381	0.290000000	0.959727396	0.506455132	0.140000000	0.723568800	0.140000000
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860	2.600000000	0.521755425	2.600000000	0.521755425	0.251941831	0.300000000	-0.190751051	0.140000000
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860	2.600000000	0.521755425	2.600000000	0.521755425	0.251941831	0.300000000	-0.190751051	0.140000000
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860	2.600000000	0.521755425	2.600000000	0.521755425	0.251941831	0.300000000	-0.190751051	0.140000000

0.367000000	432.146339690	3.241135174	1400.644702100	7.621690012	1.500000000	0.803193255	0.290000000	0.961950696	0.444063456	0.140000000	0.684729743	0.140000000
0.408000000	765.434623110	0.691296092	529.141963510	5.524444142	-	#VALUE!	-	#VALUE!	1.033848322	-	#VALUE!	-
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676	2.500000000	0.615487409	0.290000000	0.955396539	0.526027772	0.140000000	0.733854356	0.140000000
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676	2.500000000	0.615487409	0.290000000	0.955396539	0.526027772	0.140000000	0.733854356	0.140000000
0.367000000	777.359571170	6.283685618	4884.683157500	4.424885537	1.500000000	0.661008180	0.290000000	0.934461582	0.244171978	0.140000000	0.426633633	0.140000000
0.367000000	1249.795948400	3.920185384	4899.431810100	7.200925017	2.500000000	0.652822381	0.290000000	0.959727396	0.506455132	0.140000000	0.723568800	0.140000000
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860	2.600000000	0.521755425	2.600000000	0.521755425	0.251941831	0.300000000	-0.190751051	0.140000000
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860	2.600000000	0.521755425	2.600000000	0.521755425	0.251941831	0.300000000	-0.190751051	0.140000000
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860	2.600000000	0.521755425	2.600000000	0.521755425	0.251941831	0.300000000	-0.190751051	0.140000000

% Reduction f	COGBHP	SOXGBHP	PM10GBHP	Tier 4i PM10(	% Reduction f	Tier 4f PM10(	% Reduction f	PM25GBHP
0.684729743	4.250000000	0.004994136	0.347947797	0.010000000	0.971260057	0.010000000	0.971260057	0.320111973
#VALUE!	4.250000000	0.005552064	0.532368744	0.220000000	0.586752599	0.022000000	0.958675260	0.489779245
0.733854356	4.250000000	0.004994136	0.552818903	0.010000000	0.981910894	0.010000000	0.981910894	0.508593391
0.733854356	4.250000000	0.004994136	0.552818903	0.010000000	0.981910894	0.010000000	0.981910894	0.508593391
0.426633633	4.250000000	0.004994136	0.167061709	0.010000000	0.940141879	0.010000000	0.940141879	0.153696772
0.723568800	4.250000000	0.004994136	0.427684380	0.010000000	0.976618272	0.010000000	0.976618272	0.393469630
0.444316176	4.250000000	0.004994136	0.159284942	0.070000000	0.560535986	0.030000000	0.811658280	0.146542146
0.444316176	4.250000000	0.004994136	0.159284942	0.070000000	0.560535986	0.030000000	0.811658280	0.146542146
0.444316176	4.250000000	0.004994136	0.159284942	0.070000000	0.560535986	0.030000000	0.811658280	0.146542146

0.684729743	4.250000000	0.004994136	0.347947797	0.010000000	0.971260057	0.010000000	0.971260057	0.320111973
#VALUE!	4.250000000	0.005552064	0.532368744	0.220000000	0.586752599	0.022000000	0.958675260	0.489779245
0.733854356	4.250000000	0.004994136	0.552818903	0.010000000	0.981910894	0.010000000	0.981910894	0.508593391
0.733854356	4.250000000	0.004994136	0.552818903	0.010000000	0.981910894	0.010000000	0.981910894	0.508593391
0.426633633	4.250000000	0.004994136	0.167061709	0.010000000	0.940141879	0.010000000	0.940141879	0.153696772
0.723568800	4.250000000	0.004994136	0.427684380	0.010000000	0.976618272	0.010000000	0.976618272	0.393469630
0.444316176	4.250000000	0.004994136	0.159284942	0.070000000	0.560535986	0.030000000	0.811658280	0.146542146
0.444316176	4.250000000	0.004994136	0.159284942	0.070000000	0.560535986	0.030000000	0.811658280	0.146542146
0.444316176	4.250000000	0.004994136	0.159284942	0.070000000	0.560535986	0.030000000	0.811658280	0.146542146

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR	STARTMO	STARTDAY	ENDYR
IPK_4AB0FNU1	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNU1	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	24.00	7	02/05/2015	2015	2015	1	13	2015
IPK_4AB0FNU1	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	24.00	7	02/05/2015	2015	2015	1	13	2015
IPK_4AB0FNU2	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	24.00	7	02/05/2015	2015	2015	1	13	2015
IPK_4AB0FNU2	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	23.00	7	02/04/2015	2015	2015	1	13	2015
IPK_4AB0FNU2	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	23.00	7	02/04/2015	2015	2015	1	13	2015
IPK_4AB0FNU2	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	23.00	7	02/04/2015	2015	2015	1	13	2015
IPK_4AB0FNU2	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	23.00	7	02/04/2015	2015	2015	1	13	2015
IPK_4AB0FNU2	KCOGW	SJV	Kern	010000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	23.00	7	02/04/2015	2015	2015	1	13	2015
IPK_4AB0FNUB	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNUB	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	29.00	7	02/10/2015	2015	2015	1	13	2015
IPK_4AB0FNUB	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	29.00	7	02/10/2015	2015	2015	1	13	2015
IPK_4AB0FNUC	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	29.00	7	02/10/2015	2015	2015	1	13	2015
IPK_4AB0FNUC	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	28.00	7	02/09/2015	2015	2015	1	13	2015
IPK_4AB0FNUC	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	28.00	7	02/09/2015	2015	2015	1	13	2015
IPK_4AB0FNUC	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	28.00	7	02/09/2015	2015	2015	1	13	2015
IPK_4AB0FNUC	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	28.00	7	02/09/2015	2015	2015	1	13	2015
IPK_4AB0FNUD	KCOGW	SJV	Kern	011000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	28.00	7	02/09/2015	2015	2015	1	13	2015

ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP	CATLOAD
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
2	5	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
2	5	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
2	5	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
2	4	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
2	4	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	144.00	175	121	175	150.479170000	0.502500000
2	4	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	996.00	1000	751	9999	769.666670000	0.502500000
2	4	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	981.00	1000	751	9999	769.666670000	0.502500000
2	4	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1145.00	1000	751	9999	769.666670000	0.502500000
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
2	10	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
2	10	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
2	10	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
2	9	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
2	9	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	158.00	175	121	175	150.479170000	0.502500000
2	9	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1094.00	1000	751	9999	769.666670000	0.502500000
2	9	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	962.00	1000	751	9999	769.666670000	0.502500000
2	9	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1898.00	1000	751	9999	769.666670000	0.502500000

CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	NOXGBHP	Tier 4i NOXG	% Reduction f	Tier 4f NOXG	% Reduction f	ROGGBHP	Tier 4i ROGG	% Reduction for Tier 4i ROGGBHP	Tier 4f ROGG
0.367000000	432.146339690	3.241135174	1400.644702100	7.621690012	1.500000000	0.803193255	0.290000000	0.961950696	0.444063456	0.140000000	0.684729743	0.140000000
0.408000000	765.434623110	0.691296092	529.141963510	5.524444142	-	#VALUE!	-	#VALUE!	1.033848322	-	#VALUE!	-
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676	2.500000000	0.615487409	0.290000000	0.955396539	0.526027772	0.140000000	0.733854356	0.140000000
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676	2.500000000	0.615487409	0.290000000	0.955396539	0.526027772	0.140000000	0.733854356	0.140000000
0.367000000	777.359571170	6.283685618	4884.683157500	4.424885537	1.500000000	0.661008180	0.290000000	0.934461582	0.244171978	0.140000000	0.426633633	0.140000000
0.367000000	1249.795948400	3.920185384	4899.431810100	7.200925017	2.500000000	0.652822381	0.290000000	0.959727396	0.506455132	0.140000000	0.723568800	0.140000000
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860	2.600000000	0.521755425	2.600000000	0.521755425	0.251941831	0.300000000	-0.190751051	0.140000000
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860	2.600000000	0.521755425	2.600000000	0.521755425	0.251941831	0.300000000	-0.190751051	0.140000000
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860	2.600000000	0.521755425	2.600000000	0.521755425	0.251941831	0.300000000	-0.190751051	0.140000000

0.367000000	432.146339690	3.241135174	1400.644702100	7.621690012	1.500000000	0.803193255	0.290000000	0.961950696	0.444063456	0.140000000	0.684729743	0.140000000
0.408000000	765.434623110	0.691296092	529.141963510	5.524444142	-	#VALUE!	-	#VALUE!	1.033848322	-	#VALUE!	-
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676	2.500000000	0.615487409	0.290000000	0.955396539	0.526027772	0.140000000	0.733854356	0.140000000
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676	2.500000000	0.615487409	0.290000000	0.955396539	0.526027772	0.140000000	0.733854356	0.140000000
0.367000000	777.359571170	6.283685618	4884.683157500	4.424885537	1.500000000	0.661008180	0.290000000	0.934461582	0.244171978	0.140000000	0.426633633	0.140000000
0.367000000	1249.795948400	3.920185384	4899.431810100	7.200925017	2.500000000	0.652822381	0.290000000	0.959727396	0.506455132	0.140000000	0.723568800	0.140000000
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860	2.600000000	0.521755425	2.600000000	0.521755425	0.251941831	0.300000000	-0.190751051	0.140000000
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860	2.600000000	0.521755425	2.600000000	0.521755425	0.251941831	0.300000000	-0.190751051	0.140000000
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860	2.600000000	0.521755425	2.600000000	0.521755425	0.251941831	0.300000000	-0.190751051	0.140000000

% Reduction f	COGBHP	SOXGBHP	PM10GBHP	Tier 4i PM10(	% Reduction f	Tier 4f PM10(	% Reduction f	PM25GBHP
0.684729743	4.250000000	0.004994136	0.347947797	0.010000000	0.971260057	0.010000000	0.971260057	0.320111973
#VALUE!	4.250000000	0.005552064	0.532368744	0.220000000	0.586752599	0.022000000	0.958675260	0.489779245
0.733854356	4.250000000	0.004994136	0.552818903	0.010000000	0.981910894	0.010000000	0.981910894	0.508593391
0.733854356	4.250000000	0.004994136	0.552818903	0.010000000	0.981910894	0.010000000	0.981910894	0.508593391
0.426633633	4.250000000	0.004994136	0.167061709	0.010000000	0.940141879	0.010000000	0.940141879	0.153696772
0.723568800	4.250000000	0.004994136	0.427684380	0.010000000	0.976618272	0.010000000	0.976618272	0.393469630
0.444316176	4.250000000	0.004994136	0.159284942	0.070000000	0.560535986	0.030000000	0.811658280	0.146542146
0.444316176	4.250000000	0.004994136	0.159284942	0.070000000	0.560535986	0.030000000	0.811658280	0.146542146
0.444316176	4.250000000	0.004994136	0.159284942	0.070000000	0.560535986	0.030000000	0.811658280	0.146542146

0.684729743	4.250000000	0.004994136	0.347947797	0.010000000	0.971260057	0.010000000	0.971260057	0.320111973
#VALUE!	4.250000000	0.005552064	0.532368744	0.220000000	0.586752599	0.022000000	0.958675260	0.489779245
0.733854356	4.250000000	0.004994136	0.552818903	0.010000000	0.981910894	0.010000000	0.981910894	0.508593391
0.733854356	4.250000000	0.004994136	0.552818903	0.010000000	0.981910894	0.010000000	0.981910894	0.508593391
0.426633633	4.250000000	0.004994136	0.167061709	0.010000000	0.940141879	0.010000000	0.940141879	0.153696772
0.723568800	4.250000000	0.004994136	0.427684380	0.010000000	0.976618272	0.010000000	0.976618272	0.393469630
0.444316176	4.250000000	0.004994136	0.159284942	0.070000000	0.560535986	0.030000000	0.811658280	0.146542146
0.444316176	4.250000000	0.004994136	0.159284942	0.070000000	0.560535986	0.030000000	0.811658280	0.146542146
0.444316176	4.250000000	0.004994136	0.159284942	0.070000000	0.560535986	0.030000000	0.811658280	0.146542146

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR	STARTMO	STARTDAY	ENDYR
IPK_4AB0FNUL	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNUL	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	36.00	7	02/17/2015	2015	2015	1	13	2015
IPK_4AB0FNUL	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	36.00	7	02/17/2015	2015	2015	1	13	2015
IPK_4AB0FNUM	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	36.00	7	02/17/2015	2015	2015	1	13	2015
IPK_4AB0FNUM	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	35.00	7	02/16/2015	2015	2015	1	13	2015
IPK_4AB0FNUM	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	35.00	7	02/16/2015	2015	2015	1	13	2015
IPK_4AB0FNUM	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	35.00	7	02/16/2015	2015	2015	1	13	2015
IPK_4AB0FNUN	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	35.00	7	02/16/2015	2015	2015	1	13	2015
IPK_4AB0FNUN	KCOGW	SJV	Kern	012000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	35.00	7	02/16/2015	2015	2015	1	13	2015
IPK_4AB0FNUV	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNUV	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	44.00	7	02/25/2015	2015	2015	1	13	2015
IPK_4AB0FNUV	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	44.00	7	02/25/2015	2015	2015	1	13	2015
IPK_4AB0FNUW	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	44.00	7	02/25/2015	2015	2015	1	13	2015
IPK_4AB0FNUW	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	43.00	7	02/24/2015	2015	2015	1	13	2015
IPK_4AB0FNUW	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	43.00	7	02/24/2015	2015	2015	1	13	2015
IPK_4AB0FNUW	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	43.00	7	02/24/2015	2015	2015	1	13	2015
IPK_4AB0FNUX	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	43.00	7	02/24/2015	2015	2015	1	13	2015
IPK_4AB0FNUX	KCOGW	SJV	Kern	013000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	43.00	7	02/24/2015	2015	2015	1	13	2015

ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP	CATLOAD
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
2	17	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
2	17	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
2	17	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
2	16	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
2	16	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	158.00	175	121	175	150.479170000	0.502500000
2	16	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1094.00	1000	751	9999	769.666670000	0.502500000
2	16	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	962.00	1000	751	9999	769.666670000	0.502500000
2	16	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1898.00	1000	751	9999	769.666670000	0.502500000
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
2	25	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
2	25	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
2	25	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
2	24	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
2	24	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	158.00	175	121	175	150.479170000	0.502500000
2	24	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1094.00	1000	751	9999	769.666670000	0.502500000
2	24	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	962.00	1000	751	9999	769.666670000	0.502500000
2	24	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1898.00	1000	751	9999	769.666670000	0.502500000

CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	NOXGBHP	Tier 4i NOXG	% Reduction f	Tier 4f NOXG	% Reduction f	ROGGBHP	Tier 4i ROGG	% Reduction for Tier 4i ROGGBHP	Tier 4f ROGG
0.367000000	432.146339690	3.241135174	1400.644702100	7.621690012	1.500000000	0.803193255	0.290000000	0.961950696	0.444063456	0.140000000	0.684729743	0.140000000
0.408000000	765.434623110	0.691296092	529.141963510	5.524444142	-	#VALUE!	-	#VALUE!	1.033848322	-	#VALUE!	-
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676	2.500000000	0.615487409	0.290000000	0.955396539	0.526027772	0.140000000	0.733854356	0.140000000
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676	2.500000000	0.615487409	0.290000000	0.955396539	0.526027772	0.140000000	0.733854356	0.140000000
0.367000000	777.359571170	6.283685618	4884.683157500	4.424885537	1.500000000	0.661008180	0.290000000	0.934461582	0.244171978	0.140000000	0.426633633	0.140000000
0.367000000	1249.795948400	3.920185384	4899.431810100	7.200925017	2.500000000	0.652822381	0.290000000	0.959727396	0.506455132	0.140000000	0.723568800	0.140000000
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860	2.600000000	0.521755425	2.600000000	0.521755425	0.251941831	0.300000000	-0.190751051	0.140000000
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860	2.600000000	0.521755425	2.600000000	0.521755425	0.251941831	0.300000000	-0.190751051	0.140000000
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860	2.600000000	0.521755425	2.600000000	0.521755425	0.251941831	0.300000000	-0.190751051	0.140000000

0.367000000	432.146339690	3.241135174	1400.644702100	7.621690012	1.500000000	0.803193255	0.290000000	0.961950696	0.444063456	0.140000000	0.684729743	0.140000000
0.408000000	765.434623110	0.691296092	529.141963510	5.524444142	-	#VALUE!	-	#VALUE!	1.033848322	-	#VALUE!	-
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676	2.500000000	0.615487409	0.290000000	0.955396539	0.526027772	0.140000000	0.733854356	0.140000000
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676	2.500000000	0.615487409	0.290000000	0.955396539	0.526027772	0.140000000	0.733854356	0.140000000
0.367000000	777.359571170	6.283685618	4884.683157500	4.424885537	1.500000000	0.661008180	0.290000000	0.934461582	0.244171978	0.140000000	0.426633633	0.140000000
0.367000000	1249.795948400	3.920185384	4899.431810100	7.200925017	2.500000000	0.652822381	0.290000000	0.959727396	0.506455132	0.140000000	0.723568800	0.140000000
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860	2.600000000	0.521755425	2.600000000	0.521755425	0.251941831	0.300000000	-0.190751051	0.140000000
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860	2.600000000	0.521755425	2.600000000	0.521755425	0.251941831	0.300000000	-0.190751051	0.140000000
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860	2.600000000	0.521755425	2.600000000	0.521755425	0.251941831	0.300000000	-0.190751051	0.140000000

% Reduction f	COGBHP	SOXGBHP	PM10GBHP	Tier 4i PM10	% Reduction f	Tier 4f PM10	% Reduction f	PM25GBHP
0.684729743	4.250000000	0.004994136	0.347947797	0.010000000	0.971260057	0.010000000	0.971260057	0.320111973
#VALUE!	4.250000000	0.005552064	0.532368744	0.220000000	0.586752599	0.022000000	0.958675260	0.489779245
0.733854356	4.250000000	0.004994136	0.552818903	0.010000000	0.981910894	0.010000000	0.981910894	0.508593391
0.733854356	4.250000000	0.004994136	0.552818903	0.010000000	0.981910894	0.010000000	0.981910894	0.508593391
0.426633633	4.250000000	0.004994136	0.167061709	0.010000000	0.940141879	0.010000000	0.940141879	0.153696772
0.723568800	4.250000000	0.004994136	0.427684380	0.010000000	0.976618272	0.010000000	0.976618272	0.393469630
0.444316176	4.250000000	0.004994136	0.159284942	0.070000000	0.560535986	0.030000000	0.811658280	0.146542146
0.444316176	4.250000000	0.004994136	0.159284942	0.070000000	0.560535986	0.030000000	0.811658280	0.146542146
0.444316176	4.250000000	0.004994136	0.159284942	0.070000000	0.560535986	0.030000000	0.811658280	0.146542146

0.684729743	4.250000000	0.004994136	0.347947797	0.010000000	0.971260057	0.010000000	0.971260057	0.320111973
#VALUE!	4.250000000	0.005552064	0.532368744	0.220000000	0.586752599	0.022000000	0.958675260	0.489779245
0.733854356	4.250000000	0.004994136	0.552818903	0.010000000	0.981910894	0.010000000	0.981910894	0.508593391
0.733854356	4.250000000	0.004994136	0.552818903	0.010000000	0.981910894	0.010000000	0.981910894	0.508593391
0.426633633	4.250000000	0.004994136	0.167061709	0.010000000	0.940141879	0.010000000	0.940141879	0.153696772
0.723568800	4.250000000	0.004994136	0.427684380	0.010000000	0.976618272	0.010000000	0.976618272	0.393469630
0.444316176	4.250000000	0.004994136	0.159284942	0.070000000	0.560535986	0.030000000	0.811658280	0.146542146
0.444316176	4.250000000	0.004994136	0.159284942	0.070000000	0.560535986	0.030000000	0.811658280	0.146542146
0.444316176	4.250000000	0.004994136	0.159284942	0.070000000	0.560535986	0.030000000	0.811658280	0.146542146

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR	STARTMO	STARTDAY	ENDYR
IPK_4AB0FNV5	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNV5	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	54.00	7	03/07/2015	2015	2015	1	13	2015
IPK_4AB0FNV6	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	54.00	7	03/07/2015	2015	2015	1	13	2015
IPK_4AB0FNV6	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	54.00	7	03/07/2015	2015	2015	1	13	2015
IPK_4AB0FNV6	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	53.00	7	03/06/2015	2015	2015	1	13	2015
IPK_4AB0FNV6	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	53.00	7	03/06/2015	2015	2015	1	13	2015
IPK_4AB0FNV7	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	53.00	7	03/06/2015	2015	2015	1	13	2015
IPK_4AB0FNV7	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	53.00	7	03/06/2015	2015	2015	1	13	2015
IPK_4AB0FNV7	KCOGW	SJV	Kern	014000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	53.00	7	03/06/2015	2015	2015	1	13	2015
IPK_4AB0FNVF	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNVF	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	66.00	7	03/19/2015	2015	2015	1	13	2015
IPK_4AB0FNVF	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	66.00	7	03/19/2015	2015	2015	1	13	2015
IPK_4AB0FNVG	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	66.00	7	03/19/2015	2015	2015	1	13	2015
IPK_4AB0FNVG	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	65.00	7	03/18/2015	2015	2015	1	13	2015
IPK_4AB0FNVG	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	65.00	7	03/18/2015	2015	2015	1	13	2015
IPK_4AB0FNVH	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	65.00	7	03/18/2015	2015	2015	1	13	2015
IPK_4AB0FNVH	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	65.00	7	03/18/2015	2015	2015	1	13	2015
IPK_4AB0FNVH	KCOGW	SJV	Kern	015000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	65.00	7	03/18/2015	2015	2015	1	13	2015

ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP	CATLOAD
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
3	7	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
3	7	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
3	7	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
3	6	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
3	6	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	158.00	175	121	175	150.479170000	0.502500000
3	6	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1094.00	1000	751	9999	769.666670000	0.502500000
3	6	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	962.00	1000	751	9999	769.666670000	0.502500000
3	6	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1898.00	1000	751	9999	769.666670000	0.502500000

1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
3	19	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
3	19	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
3	19	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
3	18	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
3	18	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	158.00	175	121	175	150.479170000	0.502500000
3	18	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1094.00	1000	751	9999	769.666670000	0.502500000
3	18	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	962.00	1000	751	9999	769.666670000	0.502500000
3	18	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1898.00	1000	751	9999	769.666670000	0.502500000

CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	NOXGBHP	Tier 4i NOXG	% Reduction f	Tier 4f NOXG	% Reduction f	ROGGBHP	Tier 4i ROGG	% Reduction for Tier 4i ROGGBHP	Tier 4f ROGG
0.367000000	432.146339690	3.241135174	1400.644702100	7.621690012	1.500000000	0.803193255	0.290000000	0.961950696	0.444063456	0.140000000	0.684729743	0.140000000
0.408000000	765.434623110	0.691296092	529.141963510	5.524444142	-	#VALUE!	-	#VALUE!	1.033848322	-	#VALUE!	-
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676	2.500000000	0.615487409	0.290000000	0.955396539	0.526027772	0.140000000	0.733854356	0.140000000
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676	2.500000000	0.615487409	0.290000000	0.955396539	0.526027772	0.140000000	0.733854356	0.140000000
0.367000000	777.359571170	6.283685618	4884.683157500	4.424885537	1.500000000	0.661008180	0.290000000	0.934461582	0.244171978	0.140000000	0.426633633	0.140000000
0.367000000	1249.795948400	3.920185384	4899.431810100	7.200925017	2.500000000	0.652822381	0.290000000	0.959727396	0.506455132	0.140000000	0.723568800	0.140000000
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860	2.600000000	0.521755425	2.600000000	0.521755425	0.251941831	0.300000000	-0.190751051	0.140000000
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860	2.600000000	0.521755425	2.600000000	0.521755425	0.251941831	0.300000000	-0.190751051	0.140000000
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860	2.600000000	0.521755425	2.600000000	0.521755425	0.251941831	0.300000000	-0.190751051	0.140000000

0.367000000	432.146339690	3.241135174	1400.644702100	7.621690012	1.500000000	0.803193255	0.290000000	0.961950696	0.444063456	0.140000000	0.684729743	0.140000000
0.408000000	765.434623110	0.691296092	529.141963510	5.524444142	-	#VALUE!	-	#VALUE!	1.033848322	-	#VALUE!	-
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676	2.500000000	0.615487409	0.290000000	0.955396539	0.526027772	0.140000000	0.733854356	0.140000000
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676	2.500000000	0.615487409	0.290000000	0.955396539	0.526027772	0.140000000	0.733854356	0.140000000
0.367000000	777.359571170	6.283685618	4884.683157500	4.424885537	1.500000000	0.661008180	0.290000000	0.934461582	0.244171978	0.140000000	0.426633633	0.140000000
0.367000000	1249.795948400	3.920185384	4899.431810100	7.200925017	2.500000000	0.652822381	0.290000000	0.959727396	0.506455132	0.140000000	0.723568800	0.140000000
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860	2.600000000	0.521755425	2.600000000	0.521755425	0.251941831	0.300000000	-0.190751051	0.140000000
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860	2.600000000	0.521755425	2.600000000	0.521755425	0.251941831	0.300000000	-0.190751051	0.140000000
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860	2.600000000	0.521755425	2.600000000	0.521755425	0.251941831	0.300000000	-0.190751051	0.140000000

% Reduction f	COGBHP	SOXGBHP	PM10GBHP	Tier 4i PM10	% Reduction f	Tier 4f PM10	% Reduction f	PM25GBHP
0.684729743	4.250000000	0.004994136	0.347947797	0.010000000	0.971260057	0.010000000	0.971260057	0.320111973
#VALUE!	4.250000000	0.005552064	0.532368744	0.220000000	0.586752599	0.022000000	0.958675260	0.489779245
0.733854356	4.250000000	0.004994136	0.552818903	0.010000000	0.981910894	0.010000000	0.981910894	0.508593391
0.733854356	4.250000000	0.004994136	0.552818903	0.010000000	0.981910894	0.010000000	0.981910894	0.508593391
0.426633633	4.250000000	0.004994136	0.167061709	0.010000000	0.940141879	0.010000000	0.940141879	0.153696772
0.723568800	4.250000000	0.004994136	0.427684380	0.010000000	0.976618272	0.010000000	0.976618272	0.393469630
0.444316176	4.250000000	0.004994136	0.159284942	0.070000000	0.560535986	0.030000000	0.811658280	0.146542146
0.444316176	4.250000000	0.004994136	0.159284942	0.070000000	0.560535986	0.030000000	0.811658280	0.146542146
0.444316176	4.250000000	0.004994136	0.159284942	0.070000000	0.560535986	0.030000000	0.811658280	0.146542146

0.684729743	4.250000000	0.004994136	0.347947797	0.010000000	0.971260057	0.010000000	0.971260057	0.320111973
#VALUE!	4.250000000	0.005552064	0.532368744	0.220000000	0.586752599	0.022000000	0.958675260	0.489779245
0.733854356	4.250000000	0.004994136	0.552818903	0.010000000	0.981910894	0.010000000	0.981910894	0.508593391
0.733854356	4.250000000	0.004994136	0.552818903	0.010000000	0.981910894	0.010000000	0.981910894	0.508593391
0.426633633	4.250000000	0.004994136	0.167061709	0.010000000	0.940141879	0.010000000	0.940141879	0.153696772
0.723568800	4.250000000	0.004994136	0.427684380	0.010000000	0.976618272	0.010000000	0.976618272	0.393469630
0.444316176	4.250000000	0.004994136	0.159284942	0.070000000	0.560535986	0.030000000	0.811658280	0.146542146
0.444316176	4.250000000	0.004994136	0.159284942	0.070000000	0.560535986	0.030000000	0.811658280	0.146542146
0.444316176	4.250000000	0.004994136	0.159284942	0.070000000	0.560535986	0.030000000	0.811658280	0.146542146

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR	STARTMO	STARTDAY	ENDYR
IPK_4AB0FNVP	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNVP	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	82.00	7	04/04/2015	2015	2015	1	13	2015
IPK_4AB0FNVP	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	82.00	7	04/04/2015	2015	2015	1	13	2015
IPK_4AB0FNVP	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	82.00	7	04/04/2015	2015	2015	1	13	2015
IPK_4AB0FNVQ	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	81.00	7	04/03/2015	2015	2015	1	13	2015
IPK_4AB0FNVQ	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	81.00	7	04/03/2015	2015	2015	1	13	2015
IPK_4AB0FNVQ	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	81.00	7	04/03/2015	2015	2015	1	13	2015
IPK_4AB0FNVQ	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	81.00	7	04/03/2015	2015	2015	1	13	2015
IPK_4AB0FNVR	KCOGW	SJV	Kern	016000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	81.00	7	04/03/2015	2015	2015	1	13	2015
IPK_4AB0FNVY	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNVZ	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	101.00	7	04/23/2015	2015	2015	1	13	2015
IPK_4AB0FNVZ	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	101.00	7	04/23/2015	2015	2015	1	13	2015
IPK_4AB0FNVZ	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	101.00	7	04/23/2015	2015	2015	1	13	2015
IPK_4AB0FNW0	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	100.00	7	04/22/2015	2015	2015	1	13	2015
IPK_4AB0FNW0	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	100.00	7	04/22/2015	2015	2015	1	13	2015
IPK_4AB0FNW0	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	100.00	7	04/22/2015	2015	2015	1	13	2015
IPK_4AB0FNW1	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	100.00	7	04/22/2015	2015	2015	1	13	2015
IPK_4AB0FNW1	KCOGW	SJV	Kern	017000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	100.00	7	04/22/2015	2015	2015	1	13	2015
IPK_4AB0FNW8	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015

ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP	CATLOAD
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
4	4	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
4	4	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
4	4	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
4	3	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
4	3	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	180.00	250	176	250	212.472220000	0.502500000
4	3	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1211.00	1000	751	9999	769.666670000	0.502500000
4	3	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1165.00	1000	751	9999	769.666670000	0.502500000
4	3	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	2203.00	1000	751	9999	769.666670000	0.502500000
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
4	23	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
4	23	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
4	23	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
4	22	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
4	22	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	180.00	250	176	250	212.472220000	0.502500000
4	22	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1211.00	1000	751	9999	769.666670000	0.502500000
4	22	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1165.00	1000	751	9999	769.666670000	0.502500000
4	22	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	2203.00	1000	751	9999	769.666670000	0.502500000
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000

CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	NOXGBHP	Tier 4i NOXG	% Reduction f	Tier 4f NOXG	% Reduction f	ROGGBHP	Tier 4i ROGG	% Reduction for Tier 4i ROGGBHP	Tier 4f ROGG
0.367000000	432.146339690	3.241135174	1400.644702100	7.621690012					0.444063456			
0.408000000	765.434623110	0.691296092	529.141963510	5.524444142					1.033848322			
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676					0.526027772			
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676					0.526027772			
0.367000000	777.359571170	6.283685618	4884.683157500	4.424885537					0.244171978			
0.367000000	1286.375127100	5.535187969	7120.328126800	5.701322246					0.288151755			
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860					0.251941831			
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860					0.251941831			
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860					0.251941831			

CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	NOXGBHP	Tier 4i NOXG	% Reduction f	Tier 4f NOXG	% Reduction f	ROGGBHP	Tier 4i ROGG	% Reduction for Tier 4i ROGGBHP	Tier 4f ROGG
0.367000000	432.146339690	3.241135174	1400.644702100	7.621690012					0.444063456			
0.408000000	765.434623110	0.691296092	529.141963510	5.524444142					1.033848322			
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676					0.526027772			
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676					0.526027772			
0.367000000	777.359571170	6.283685618	4884.683157500	4.424885537					0.244171978			
0.367000000	1286.375127100	5.535187969	7120.328126800	5.701322246					0.288151755			
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860					0.251941831			
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860					0.251941831			
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860					0.251941831			

0.367000000	432.146339690	3.241135174	1400.644702100	7.621690012					0.444063456			

% Reduction f	COGBHP	SOXGBHP	PM10GBHP	Tier 4i PM10C	% Reduction f	Tier 4f PM10C	% Reduction f	PM25GBHP
	4.250000000	0.004994136	0.347947797					0.320111973
	4.250000000	0.005552064	0.532368744					0.489779245
	4.250000000	0.004994136	0.552818903					0.508593391
	4.250000000	0.004994136	0.552818903					0.508593391
	4.250000000	0.004994136	0.167061709					0.153696772
	4.250000000	0.004994136	0.182534978					0.167932179
	4.250000000	0.004994136	0.159284942					0.146542146
	4.250000000	0.004994136	0.159284942					0.146542146
	4.250000000	0.004994136	0.159284942					0.146542146

	4.250000000	0.004994136	0.347947797					0.320111973
	4.250000000	0.005552064	0.532368744					0.489779245
	4.250000000	0.004994136	0.552818903					0.508593391
	4.250000000	0.004994136	0.552818903					0.508593391
	4.250000000	0.004994136	0.167061709					0.153696772
	4.250000000	0.004994136	0.182534978					0.167932179
	4.250000000	0.004994136	0.159284942					0.146542146
	4.250000000	0.004994136	0.159284942					0.146542146
	4.250000000	0.004994136	0.159284942					0.146542146

	4.250000000	0.004994136	0.347947797					0.320111973

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR	STARTMO	STARTDAY	ENDYR
IPK_4AB0FNW8	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	125.00	7	05/17/2015	2015	2015	1	13	2015
IPK_4AB0FNW8	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	125.00	7	05/17/2015	2015	2015	1	13	2015
IPK_4AB0FNW9	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	125.00	7	05/17/2015	2015	2015	1	13	2015
IPK_4AB0FNW9	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	124.00	7	05/16/2015	2015	2015	1	13	2015
IPK_4AB0FNW9	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	124.00	7	05/16/2015	2015	2015	1	13	2015
IPK_4AB0FNWA	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	124.00	7	05/16/2015	2015	2015	1	13	2015
IPK_4AB0FNWA	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	124.00	7	05/16/2015	2015	2015	1	13	2015
IPK_4AB0FNWA	KCOGW	SJV	Kern	018000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	124.00	7	05/16/2015	2015	2015	1	13	2015
IPK_4AB0FNWH	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNWH	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	154.00	7	06/15/2015	2015	2015	1	13	2015
IPK_4AB0FNWI	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	154.00	7	06/15/2015	2015	2015	1	13	2015
IPK_4AB0FNWI	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	153.00	7	06/14/2015	2015	2015	1	13	2015
IPK_4AB0FNWI	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	153.00	7	06/14/2015	2015	2015	1	13	2015
IPK_4AB0FNWJ	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	153.00	7	06/14/2015	2015	2015	1	13	2015
IPK_4AB0FNWJ	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	153.00	7	06/14/2015	2015	2015	1	13	2015
IPK_4AB0FNWJ	KCOGW	SJV	Kern	019000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	153.00	7	06/14/2015	2015	2015	1	13	2015
IPK_4AB0FNWQ	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNWQ	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	191.00	7	07/22/2015	2015	2015	1	13	2015
IPK_4AB0FNWR	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	191.00	7	07/22/2015	2015	2015	1	13	2015
IPK_4AB0FNWR	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	191.00	7	07/22/2015	2015	2015	1	13	2015

ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP	CATLOAD
5	17	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
5	17	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
5	17	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
5	16	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
5	16	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	180.00	250	176	250	212.472220000	0.502500000
5	16	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1211.00	1000	751	9999	769.666670000	0.502500000
5	16	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1165.00	1000	751	9999	769.666670000	0.502500000
5	16	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	2203.00	1000	751	9999	769.666670000	0.502500000
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
6	15	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
6	15	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
6	15	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
6	14	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
6	14	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	180.00	250	176	250	212.472220000	0.502500000
6	14	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1211.00	1000	751	9999	769.666670000	0.502500000
6	14	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1165.00	1000	751	9999	769.666670000	0.502500000
6	14	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	2203.00	1000	751	9999	769.666670000	0.502500000
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
7	22	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
7	22	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
7	22	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000

CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	NOXGBHP	Tier 4i NOXG	% Reduction f	Tier 4f NOXG	% Reduction f	ROGGBHP	Tier 4i ROGG	% Reduction for Tier 4i ROGGBHP	Tier 4f ROGG
0.408000000	765.434623110	0.691296092	529.141963510	5.524444142					1.033848322			
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676					0.526027772			
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676					0.526027772			
0.367000000	777.359571170	6.283685618	4884.683157500	4.424885537					0.244171978			
0.367000000	1286.375127100	5.535187969	7120.328126800	5.701322246					0.288151755			
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860					0.251941831			
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860					0.251941831			
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860					0.251941831			
0.367000000	432.146339690	3.241135174	1400.644702100	7.621690012					0.444063456			
0.408000000	765.434623110	0.691296092	529.141963510	5.524444142					1.033848322			
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676					0.526027772			
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676					0.526027772			
0.367000000	777.359571170	6.283685618	4884.683157500	4.424885537					0.244171978			
0.367000000	1286.375127100	5.535187969	7120.328126800	5.701322246					0.288151755			
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860					0.251941831			
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860					0.251941831			
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860					0.251941831			
0.367000000	432.146339690	3.241135174	1400.644702100	7.621690012					0.444063456			
0.408000000	765.434623110	0.691296092	529.141963510	5.524444142					1.033848322			
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676					0.526027772			
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676					0.526027772			

% Reduction f	COGBHP	SOXGBHP	PM10GBHP	Tier 4i PM10G	% Reduction f	Tier 4f PM10G	% Reduction f	PM25GBHP
	4.250000000	0.005552064	0.532368744					0.489779245
	4.250000000	0.004994136	0.552818903					0.508593391
	4.250000000	0.004994136	0.552818903					0.508593391
	4.250000000	0.004994136	0.167061709					0.153696772
	4.250000000	0.004994136	0.182534978					0.167932179
	4.250000000	0.004994136	0.159284942					0.146542146
	4.250000000	0.004994136	0.159284942					0.146542146
	4.250000000	0.004994136	0.159284942					0.146542146
	4.250000000	0.004994136	0.347947797					0.320111973
	4.250000000	0.005552064	0.532368744					0.489779245
	4.250000000	0.004994136	0.552818903					0.508593391
	4.250000000	0.004994136	0.552818903					0.508593391
	4.250000000	0.004994136	0.167061709					0.153696772
	4.250000000	0.004994136	0.182534978					0.167932179
	4.250000000	0.004994136	0.159284942					0.146542146
	4.250000000	0.004994136	0.159284942					0.146542146
	4.250000000	0.004994136	0.159284942					0.146542146
	4.250000000	0.004994136	0.347947797					0.320111973
	4.250000000	0.005552064	0.532368744					0.489779245
	4.250000000	0.004994136	0.552818903					0.508593391
	4.250000000	0.004994136	0.552818903					0.508593391

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR	STARTMO	STARTDAY	ENDYR
IPK_4AB0FNWR	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	190.00	7	07/21/2015	2015	2015	1	13	2015
IPK_4AB0FNWR	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	190.00	7	07/21/2015	2015	2015	1	13	2015
IPK_4AB0FNWS	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	190.00	7	07/21/2015	2015	2015	1	13	2015
IPK_4AB0FNWS	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	190.00	7	07/21/2015	2015	2015	1	13	2015
IPK_4AB0FNWS	KCOGW	SJV	Kern	020000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	190.00	7	07/21/2015	2015	2015	1	13	2015
IPK_4AB0FNWY	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNWZ	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	235.00	7	09/04/2015	2015	2015	1	13	2015
IPK_4AB0FNWZ	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	235.00	7	09/04/2015	2015	2015	1	13	2015
IPK_4AB0FNX0	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	235.00	7	09/04/2015	2015	2015	1	13	2015
IPK_4AB0FNX0	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	234.00	7	09/03/2015	2015	2015	1	13	2015
IPK_4AB0FNX1	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	234.00	7	09/03/2015	2015	2015	1	13	2015
IPK_4AB0FNX1	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	234.00	7	09/03/2015	2015	2015	1	13	2015
IPK_4AB0FNX1	KCOGW	SJV	Kern	021000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	234.00	7	09/03/2015	2015	2015	1	13	2015
IPK_4AB0FNX7	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNX7	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	291.00	7	10/30/2015	2015	2015	1	13	2015
IPK_4AB0FNX7	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	291.00	7	10/30/2015	2015	2015	1	13	2015
IPK_4AB0FNX7	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	291.00	7	10/30/2015	2015	2015	1	13	2015
IPK_4AB0FNX8	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	290.00	7	10/29/2015	2015	2015	1	13	2015
IPK_4AB0FNX8	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	290.00	7	10/29/2015	2015	2015	1	13	2015
IPK_4AB0FNX9	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	290.00	7	10/29/2015	2015	2015	1	13	2015

ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP	CATLOAD
7	21	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
7	21	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	180.00	250	176	250	212.472220000	0.502500000
7	21	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1211.00	1000	751	9999	769.666670000	0.502500000
7	21	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	1165.00	1000	751	9999	769.666670000	0.502500000
7	21	DSL	Diesel Electric - Hoist & Pump	4	Oil Drilling	34	Driling Rig	22.00	1.00	2203.00	1000	751	9999	769.666670000	0.502500000
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
9	4	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
9	4	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
9	4	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
9	3	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
9	3	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	180.00	250	176	250	212.472220000	0.502500000
9	3	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1361.00	1000	751	9999	769.666670000	0.502500000
9	3	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1342.00	1000	751	9999	769.666670000	0.502500000
9	3	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	2274.00	1000	751	9999	769.666670000	0.502500000
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
10	30	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
10	30	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
10	30	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
10	29	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
10	29	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	180.00	250	176	250	212.472220000	0.502500000
10	29	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1361.00	1000	751	9999	769.666670000	0.502500000

CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	NOXGBHP	Tier 4i NOXG	% Reduction f	Tier 4f NOXG	% Reduction f	ROGGBHP	Tier 4i ROGG	% Reduction for Tier 4i ROGGBHP	Tier 4f ROGG
0.367000000	777.359571170	6.283685618	4884.683157500	4.424885537					0.244171978			
0.367000000	1286.375127100	5.535187969	7120.328126800	5.701322246					0.288151755			
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860					0.251941831			
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860					0.251941831			
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860					0.251941831			

0.367000000	432.146339690	3.241135174	1400.644702100	7.621690012					0.444063456			
0.408000000	765.434623110	0.691296092	529.141963510	5.524444142					1.033848322			
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676					0.526027772			
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676					0.526027772			
0.367000000	777.359571170	6.283685618	4884.683157500	4.424885537					0.244171978			
0.367000000	1286.375127100	5.535187969	7120.328126800	5.701322246					0.288151755			
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860					0.251941831			
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860					0.251941831			
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860					0.251941831			

0.367000000	432.146339690	3.241135174	1400.644702100	7.621690012					0.444063456			
0.408000000	765.434623110	0.691296092	529.141963510	5.524444142					1.033848322			
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676					0.526027772			
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676					0.526027772			
0.367000000	777.359571170	6.283685618	4884.683157500	4.424885537					0.244171978			
0.367000000	1286.375127100	5.535187969	7120.328126800	5.701322246					0.288151755			
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860					0.251941831			

% Reduction f	COGBHP	SOXGBHP	PM10GBHP	Tier 4i PM10G	% Reduction f	Tier 4f PM10G	% Reduction f	PM25GBHP
	4.250000000	0.004994136	0.167061709					0.153696772
	4.250000000	0.004994136	0.182534978					0.167932179
	4.250000000	0.004994136	0.159284942					0.146542146
	4.250000000	0.004994136	0.159284942					0.146542146
	4.250000000	0.004994136	0.159284942					0.146542146
	4.250000000	0.004994136	0.347947797					0.320111973
	4.250000000	0.005552064	0.532368744					0.489779245
	4.250000000	0.004994136	0.552818903					0.508593391
	4.250000000	0.004994136	0.552818903					0.508593391
	4.250000000	0.004994136	0.167061709					0.153696772
	4.250000000	0.004994136	0.182534978					0.167932179
	4.250000000	0.004994136	0.159284942					0.146542146
	4.250000000	0.004994136	0.159284942					0.146542146
	4.250000000	0.004994136	0.159284942					0.146542146
	4.250000000	0.004994136	0.347947797					0.320111973
	4.250000000	0.005552064	0.532368744					0.489779245
	4.250000000	0.004994136	0.552818903					0.508593391
	4.250000000	0.004994136	0.552818903					0.508593391
	4.250000000	0.004994136	0.167061709					0.153696772
	4.250000000	0.004994136	0.182534978					0.167932179
	4.250000000	0.004994136	0.159284942					0.146542146

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR	STARTMO	STARTDAY	ENDYR
IPK_4AB0FNX9	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	290.00	7	10/29/2015	2015	2015	1	13	2015
IPK_4AB0FNX9	KCOGW	SJV	Kern	022000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	290.00	7	10/29/2015	2015	2015	1	13	2015
IPK_4AB0FNXE	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNXE	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	360.00	7	01/07/2016	2015	2015	1	13	2016
IPK_4AB0FNXF	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	360.00	7	01/07/2016	2015	2015	1	13	2016
IPK_4AB0FNXF	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	360.00	7	01/07/2016	2015	2015	1	13	2016
IPK_4AB0FNXG	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	359.00	7	01/06/2016	2015	2015	1	13	2016
IPK_4AB0FNXG	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	359.00	7	01/06/2016	2015	2015	1	13	2016
IPK_4AB0FNXH	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	359.00	7	01/06/2016	2015	2015	1	13	2016
IPK_4AB0FNXH	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	359.00	7	01/06/2016	2015	2015	1	13	2016
IPK_4AB0FNXH	KCOGW	SJV	Kern	023000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	359.00	7	01/06/2016	2015	2015	1	13	2016
IPK_4AB0FNXQ	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNXR	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	445.00	7	04/01/2016	2015	2015	1	13	2016
IPK_4AB0FNXR	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	445.00	7	04/01/2016	2015	2015	1	13	2016
IPK_4AB0FNXR	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	445.00	7	04/01/2016	2015	2015	1	13	2016
IPK_4AB0FNXS	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	444.00	7	03/31/2016	2015	2015	1	13	2016
IPK_4AB0FNXS	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	444.00	7	03/31/2016	2015	2015	1	13	2016
IPK_4AB0FNXT	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	444.00	7	03/31/2016	2015	2015	1	13	2016
IPK_4AB0FNXT	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	444.00	7	03/31/2016	2015	2015	1	13	2016
IPK_4AB0FNXU	KCOGW	SJV	Kern	024000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	444.00	7	03/31/2016	2015	2015	1	13	2016

ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP	CATLOAD
10	29	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1342.00	1000	751	9999	769.666670000	0.502500000
10	29	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	2274.00	1000	751	9999	769.666670000	0.502500000
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
1	7	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
1	7	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
1	7	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
1	6	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
1	6	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	180.00	250	176	250	212.472220000	0.502500000
1	6	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1361.00	1000	751	9999	769.666670000	0.502500000
1	6	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1342.00	1000	751	9999	769.666670000	0.502500000
1	6	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	2274.00	1000	751	9999	769.666670000	0.502500000
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
4	1	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
4	1	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
4	1	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
3	31	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
3	31	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	180.00	250	176	250	212.472220000	0.502500000
3	31	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1361.00	1000	751	9999	769.666670000	0.502500000
3	31	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1342.00	1000	751	9999	769.666670000	0.502500000
3	31	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	2274.00	1000	751	9999	769.666670000	0.502500000

CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	NOXGBHP	Tier 4i NOXG	% Reduction f	Tier 4f NOXG	% Reduction f	ROGGBHP	Tier 4i ROGG	% Reduction for Tier 4i ROGGBHP	Tier 4f ROGG
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860					0.251941831			
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860					0.251941831			

0.367000000	432.146339690	3.241135174	1400.644702100	7.621690012					0.444063456			
0.408000000	765.434623110	0.691296092	529.141963510	5.524444142					1.033848322			
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676					0.526027772			
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676					0.526027772			
0.367000000	777.359571170	6.283685618	4884.683157500	4.424885537					0.244171978			
0.367000000	1286.375127100	5.535187969	7120.328126800	5.701322246					0.288151755			
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860					0.251941831			
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860					0.251941831			
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860					0.251941831			

0.367000000	432.146339690	3.241135174	1400.644702100	7.621690012					0.444063456			
0.408000000	765.434623110	0.691296092	529.141963510	5.524444142					1.033848322			
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676					0.526027772			
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676					0.526027772			
0.367000000	777.359571170	6.283685618	4884.683157500	4.424885537					0.244171978			
0.367000000	1286.375127100	5.535187969	7120.328126800	5.701322246					0.288151755			
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860					0.251941831			
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860					0.251941831			
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860					0.251941831			

% Reduction f	COGBHP	SOXGBHP	PM10GBHP	Tier 4i PM10	% Reduction f	Tier 4f PM10	% Reduction f	PM25GBHP
	4.250000000	0.004994136	0.159284942					0.146542146
	4.250000000	0.004994136	0.159284942					0.146542146
	4.250000000	0.004994136	0.347947797					0.320111973
	4.250000000	0.005552064	0.532368744					0.489779245
	4.250000000	0.004994136	0.552818903					0.508593391
	4.250000000	0.004994136	0.552818903					0.508593391
	4.250000000	0.004994136	0.167061709					0.153696772
	4.250000000	0.004994136	0.182534978					0.167932179
	4.250000000	0.004994136	0.159284942					0.146542146
	4.250000000	0.004994136	0.159284942					0.146542146
	4.250000000	0.004994136	0.159284942					0.146542146
	4.250000000	0.004994136	0.347947797					0.320111973
	4.250000000	0.005552064	0.532368744					0.489779245
	4.250000000	0.004994136	0.552818903					0.508593391
	4.250000000	0.004994136	0.552818903					0.508593391
	4.250000000	0.004994136	0.167061709					0.153696772
	4.250000000	0.004994136	0.182534978					0.167932179
	4.250000000	0.004994136	0.159284942					0.146542146
	4.250000000	0.004994136	0.159284942					0.146542146
	4.250000000	0.004994136	0.159284942					0.146542146

INPKEY	PRJNAME	AIRBASIN	COUNTY	SITE	ACTIVITY	PHASE	TASK	WLYEAR	BGNDATE	MDYDATE	OPDAYS	WRKDPW	ENDDATE	CALYEAR	STARTYR	STARTMO	STARTDAY	ENDYR
IPK_4AB0FNY1	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.01	2015	01/13/2015	2015/01/13	2.00	7	01/14/2015	2015	2015	1	13	2015
IPK_4AB0FNY2	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.02	2015	01/13/2015	2015/01/13	550.00	7	07/15/2016	2015	2015	1	13	2016
IPK_4AB0FNY2	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.03	2015	01/13/2015	2015/01/13	550.00	7	07/15/2016	2015	2015	1	13	2016
IPK_4AB0FNY3	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.04	2015	01/13/2015	2015/01/13	550.00	7	07/15/2016	2015	2015	1	13	2016
IPK_4AB0FNY3	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.05	2015	01/13/2015	2015/01/13	549.00	7	07/14/2016	2015	2015	1	13	2016
IPK_4AB0FNY4	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.06	2015	01/13/2015	2015/01/13	549.00	7	07/14/2016	2015	2015	1	13	2016
IPK_4AB0FNY4	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.07	2015	01/13/2015	2015/01/13	549.00	7	07/14/2016	2015	2015	1	13	2016
IPK_4AB0FNY5	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.08	2015	01/13/2015	2015/01/13	549.00	7	07/14/2016	2015	2015	1	13	2016
IPK_4AB0FNY5	KCOGW	SJV	Kern	025000	Construction	C.1 Well Drilling	C.1.09	2015	01/13/2015	2015/01/13	549.00	7	07/14/2016	2015	2015	1	13	2016

ENDMO	ENDDAY	FUEL	EQUIPUSE	CLASSIDN	EQUIPCLASS	TYPEIDN	EQUIPTYPE	HRDAY	EQUIPCNT	ENGHP	HPCAT	HPMIN	HPMAX	CATAVGHP	CATLOAD
1	14	DSL	Portable Crane	2	Construction and Mining	12	Cranes	8.00	1.00	230.00	250	176	250	217.000000000	0.288100000
7	15	DSL	Port Light stands	3	Industrial	32	Other General Industrial	12.00	5.00	20.00	50	0	50	35.101920000	0.341700000
7	15	DSL	Portable Gen. Hydraulic Power	3	Industrial	32	Other General Industrial	22.00	1.00	80.00	120	51	120	73.192260000	0.341700000
7	15	DSL	Portable Gen. DSM/Trailers	3	Industrial	32	Other General Industrial	24.00	2.00	100.00	120	51	120	73.192260000	0.341700000
7	14	DSL	Portable Gen. Mud Separator	3	Industrial	32	Other General Industrial	22.00	1.00	420.00	500	251	500	354.711540000	0.341700000
7	14	DSL	Diesel Electric - Rotary	4	Oil Drilling	34	Driling Rig	22.00	1.00	180.00	250	176	250	212.472220000	0.502500000
7	14	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1361.00	1000	751	9999	769.666670000	0.502500000
7	14	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	1342.00	1000	751	9999	769.666670000	0.502500000
7	14	DSL	Diesel Electric - Hoist	4	Oil Drilling	34	Driling Rig	22.00	1.00	2274.00	1000	751	9999	769.666670000	0.502500000

CATBSFCLB	CATENGHPY	CATENGGPH	CATENGGPY	NOXGBHP	Tier 4i NOXG	% Reduction f	Tier 4f NOXG	% Reduction f	ROGGBHP	Tier 4i ROGG	% Reduction for Tier 4i ROGGBHP	Tier 4f ROGG
0.367000000	432.146339690	3.241135174	1400.644702100	7.621690012					0.444063456			
0.408000000	765.434623110	0.691296092	529.141963510	5.524444142					1.033848322			
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676					0.526027772			
0.367000000	757.287375750	1.296594837	981.894901810	6.501737676					0.526027772			
0.367000000	777.359571170	6.283685618	4884.683157500	4.424885537					0.244171978			
0.367000000	1286.375127100	5.535187969	7120.328126800	5.701322246					0.288151755			
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860					0.251941831			
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860					0.251941831			
0.367000000	1662.223634800	20.050855080	33329.005213000	5.436548860					0.251941831			

% Reduction f	COGBHP	SOXGBHP	PM10GBHP	Tier 4i PM10(	% Reduction f	Tier 4f PM10(	% Reduction f	PM25GBHP
	4.250000000	0.004994136	0.347947797					0.320111973
	4.250000000	0.005552064	0.532368744					0.489779245
	4.250000000	0.004994136	0.552818903					0.508593391
	4.250000000	0.004994136	0.552818903					0.508593391
	4.250000000	0.004994136	0.167061709					0.153696772
	4.250000000	0.004994136	0.182534978					0.167932179
	4.250000000	0.004994136	0.159284942					0.146542146
	4.250000000	0.004994136	0.159284942					0.146542146
	4.250000000	0.004994136	0.159284942					0.146542146

Engines <75 hp Percentages by Well Depth and Pollutant

Well Depth	PMTON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
1,000	Emissions for Engines <75 hp	0.009987844	0.001869132	0.00768373	0.000010038	0.000962489	0.00088549
	% of total	2.49%	7.66%	2.36%	2.62%	5.34%	5.34%
2,000	Emissions for Engines <75 hp	0.012484805	0.002336415	0.009604663	0.000012547	0.001203111	0.001106862
	% of total	2.37%	7.36%	2.24%	2.49%	5.15%	5.15%
3,000	Emissions for Engines <75 hp	0.014981766	0.002803698	0.011525595	0.000015057	0.001443733	0.001328235
	% of total	2.30%	7.16%	2.17%	2.41%	5.03%	5.03%
4,000	Emissions for Engines <75 hp	0.017478727	0.003270981	0.013446528	0.000017566	0.001684356	0.001549607
	% of total	2.25%	7.03%	2.12%	2.36%	4.95%	4.95%
5,000	Emissions for Engines <75 hp	0.02247265	0.004205547	0.017288393	0.000022585	0.0021656	0.001992352
	% of total	2.19%	6.87%	2.06%	2.29%	4.84%	4.84%
6,000	Emissions for Engines <75 hp	0.027466572	0.005140113	0.021130258	0.000027604	0.002646844	0.002435097
	% of total	1.07%	3.86%	1.07%	1.18%	2.88%	2.88%
7,000	Emissions for Engines <75 hp	0.032460494	0.006074679	0.024972123	0.000032623	0.003128089	0.002877842
	% of total	1.06%	3.81%	1.05%	1.17%	2.84%	2.84%
8,000	Emissions for Engines <75 hp	0.039951377	0.007476529	0.030734921	0.000040151	0.003849956	0.003541959
	% of total	1.04%	3.76%	1.04%	1.15%	2.81%	2.81%
9,000	Emissions for Engines <75 hp	0.04744226	0.008878378	0.036497718	0.000047679	0.004571822	0.004206076
	% of total	1.03%	3.73%	1.03%	1.14%	2.79%	2.79%
10,000	Emissions for Engines <75 hp	0.059927066	0.011214793	0.046102381	0.000060227	0.005774933	0.005312939
	% of total	1.02%	3.70%	1.02%	1.13%	2.76%	2.76%
11,000	Emissions for Engines <75 hp	0.072411871	0.013551208	0.055707044	0.000072774	0.006978044	0.006419801
	% of total	0.83%	3.06%	0.83%	0.92%	2.32%	2.32%
12,000	Emissions for Engines <75 hp	0.089890598	0.016822189	0.069153571	0.00009034	0.0086624	0.007969408
	% of total	0.83%	3.04%	0.82%	0.91%	2.30%	2.30%
13,000	Emissions for Engines <75 hp	0.109866287	0.020560453	0.084521032	0.000110416	0.010587378	0.009740388
	% of total	0.82%	3.03%	0.82%	0.91%	2.29%	2.29%
14,000	Emissions for Engines <75 hp	0.134835897	0.025233284	0.103730357	0.00013551	0.0129936	0.011954112
	% of total	0.82%	3.02%	0.81%	0.90%	2.29%	2.29%
15,000	Emissions for Engines <75 hp	0.16479943	0.03084068	0.126781548	0.000165623	0.015881067	0.014610581
	% of total	0.82%	3.01%	0.81%	0.90%	2.28%	2.28%

Total Wells:

Drilled Well Percentages by Year Associated with Each Well Depth

2012	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
305	323	323	323	325	325	326	326	326	327	327	328	328	329	329	330	330	330	332	332
8.99%	8.14%	8.14%	8.12%	8.16%	8.15%	8.16%	8.15%	8.14%	8.15%	8.14%	8.15%	8.14%	8.15%	8.14%	8.15%	8.14%	8.13%	8.17%	8.16%
1,414	1,575	1,577	1,581	1,582	1,586	1,588	1,590	1,595	1,598	1,599	1,601	1,603	1,604	1,608	1,610	1,613	1,616	1,617	1,617
41.69%	39.71%	39.72%	39.76%	39.73%	39.77%	39.76%	39.75%	39.82%	39.83%	39.80%	39.79%	39.78%	39.74%	39.78%	39.77%	39.79%	39.80%	39.77%	39.72%
930	1,128	1,130	1,131	1,133	1,134	1,136	1,139	1,140	1,141	1,142	1,144	1,146	1,148	1,150	1,152	1,153	1,155	1,157	1,159
27.42%	28.44%	28.46%	28.45%	28.45%	28.44%	28.44%	28.48%	28.46%	28.44%	28.42%	28.43%	28.44%	28.44%	28.45%	28.46%	28.44%	28.45%	28.46%	28.47%
174	218	218	219	219	219	220	220	220	221	221	221	222	222	222	222	223	223	224	224
5.13%	5.50%	5.49%	5.51%	5.50%	5.49%	5.51%	5.50%	5.49%	5.51%	5.50%	5.49%	5.51%	5.50%	5.49%	5.48%	5.50%	5.49%	5.51%	5.50%
300	363	363	363	364	365	365	366	366	366	368	368	368	369	369	370	371	371	371	372
8.84%	9.15%	9.14%	9.13%	9.14%	9.15%	9.14%	9.15%	9.14%	9.12%	9.16%	9.15%	9.13%	9.14%	9.13%	9.14%	9.15%	9.14%	9.12%	9.14%
69	89	89	89	89	89	89	89	89	89	91	91	91	91	91	91	91	91	91	91
2.03%	2.24%	2.24%	2.24%	2.24%	2.23%	2.23%	2.23%	2.22%	2.22%	2.26%	2.26%	2.26%	2.25%	2.25%	2.25%	2.24%	2.24%	2.24%	2.24%
44	55	55	55	55	55	55	55	55	55	55	56	56	56	56	56	56	56	56	56
1.30%	1.39%	1.39%	1.38%	1.38%	1.38%	1.38%	1.38%	1.37%	1.37%	1.37%	1.39%	1.39%	1.39%	1.39%	1.38%	1.38%	1.38%	1.38%	1.38%
23	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	26
0.68%	0.63%	0.63%	0.63%	0.63%	0.63%	0.63%	0.63%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.61%	0.64%
33	37	37	37	37	37	37	37	37	37	37	37	37	38	38	38	38	38	38	38
0.97%	0.93%	0.93%	0.93%	0.93%	0.93%	0.93%	0.93%	0.92%	0.92%	0.92%	0.92%	0.92%	0.94%	0.94%	0.94%	0.94%	0.94%	0.93%	0.93%
21	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
0.62%	0.83%	0.83%	0.83%	0.83%	0.83%	0.83%	0.83%	0.82%	0.82%	0.82%	0.82%	0.82%	0.82%	0.82%	0.82%	0.81%	0.81%	0.81%	0.81%
25	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	32	32	32
0.74%	0.78%	0.78%	0.78%	0.78%	0.78%	0.78%	0.78%	0.77%	0.77%	0.77%	0.77%	0.77%	0.77%	0.77%	0.77%	0.76%	0.79%	0.79%	0.79%
27	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	42
0.80%	1.03%	1.03%	1.03%	1.03%	1.03%	1.03%	1.03%	1.02%	1.02%	1.02%	1.02%	1.02%	1.02%	1.01%	1.01%	1.01%	1.01%	1.01%	1.03%
20	36	36	36	36	36	36	36	36	36	36	36	37	37	37	37	37	37	37	37
0.59%	0.91%	0.91%	0.91%	0.90%	0.90%	0.90%	0.90%	0.90%	0.90%	0.90%	0.89%	0.92%	0.92%	0.92%	0.91%	0.91%	0.91%	0.91%	0.91%
6	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
0.18%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%
1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
0.03%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%
3392	3966	3970	3976	3982	3988	3994	4000	4006	4012	4018	4024	4030	4036	4042	4048	4054	4060	4066	4071
100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

2034	2035
333	333
8.17%	8.16%
1620	1623
39.74%	39.75%
1161	1163
28.48%	28.48%
224	224
5.49%	5.49%
372	373
9.12%	9.14%
91	91
2.23%	2.23%
56	56
1.37%	1.37%
26	26
0.64%	0.64%
38	38
0.93%	0.93%
33	33
0.81%	0.81%
32	32
0.78%	0.78%
42	42
1.03%	1.03%
37	37
0.91%	0.91%
10	10
0.25%	0.24%
2	2
0.05%	0.05%
4077	4083
100.00%	100.00%

% Reduction for Tier 4i NOXGBHP	% Reduction for Tier 4f NOXGBHP	% Reduction for Tier 4i ROGGBHP	% Reduction for Tier 4f ROGGBHP	% Reduction for Tier 4i PM10GBHP	% Reduction for Tier 4f PM10GBHP
No Reduct	No Reduction	No Reduction	No Reduction	0.586752599	0.95867526

Engines <-75 hp Percentages by Well Depth and Pollutant

Well Depth		NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
1000	% of total	0.024889	0.076616	0.023624	0.026195	0.053396	0.053396
2000	% of total	0.02374	0.07355	0.022448	0.024893	0.051496	0.051496
3000	% of total	0.023031	0.071639	0.021727	0.024096	0.050303	0.050303
4000	% of total	0.02255	0.070334	0.021239	0.023556	0.049485	0.049485
5000	% of total	0.021939	0.068666	0.020622	0.022873	0.048434	0.048434
6000	% of total	0.010722	0.038592	0.010667	0.011844	0.028771	0.028771
7000	% of total	0.010578	0.038117	0.01052	0.011682	0.028439	0.028439
8000	% of total	0.010434	0.037638	0.010374	0.011519	0.028104	0.028104
9000	% of total	0.010338	0.037318	0.010276	0.01141	0.02788	0.02788
10000	% of total	0.010233	0.036968	0.010169	0.011292	0.027635	0.027635
11000	% of total	0.008322	0.030606	0.008262	0.009177	0.023165	0.023165
12000	% of total	0.00827	0.030427	0.00821	0.009118	0.023036	0.023036
13000	% of total	0.008231	0.030293	0.00817	0.009075	0.02294	0.02294
14000	% of total	0.008199	0.030182	0.008138	0.009039	0.022861	0.022861
15000	% of total	0.008173	0.030094	0.008112	0.00901	0.022797	0.022797

Drilled Well Percentages by Year Associated with Each Well Depth

Well Depth	2012	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
1000	0.089917	0.081442	0.08136	0.081237	0.081617	0.081494	0.081622	0.0815	0.081378	0.081505	0.081384
2000	0.416863	0.397126	0.397229	0.397636	0.397288	0.397693	0.397596	0.3975	0.398153	0.398305	0.397959
3000	0.274175	0.284418	0.284635	0.284457	0.28453	0.284353	0.284427	0.28475	0.284573	0.284397	0.284221
4000	0.051297	0.054967	0.054912	0.05508	0.054997	0.054915	0.055083	0.055	0.054918	0.055085	0.055002
5000	0.088443	0.091528	0.091436	0.091298	0.091411	0.091525	0.091387	0.0915	0.091363	0.091226	0.091588
6000	0.020342	0.022441	0.022418	0.022384	0.022351	0.022317	0.022283	0.02225	0.022217	0.022183	0.022648
7000	0.012972	0.013868	0.013854	0.013833	0.013812	0.013791	0.013771	0.01375	0.013729	0.013709	0.013688
8000	0.006781	0.006304	0.006297	0.006288	0.006278	0.006269	0.006259	0.00625	0.006241	0.006231	0.006222
9000	0.009729	0.009329	0.00932	0.009306	0.009292	0.009278	0.009264	0.00925	0.009236	0.009222	0.009209
10000	0.006191	0.008321	0.008312	0.0083	0.008287	0.008275	0.008262	0.00825	0.008238	0.008225	0.008213
11000	0.00737	0.007816	0.007809	0.007797	0.007785	0.007773	0.007762	0.00775	0.007738	0.007727	0.007715
12000	0.00796	0.010338	0.010327	0.010312	0.010296	0.010281	0.010265	0.01025	0.010235	0.010219	0.010204
13000	0.005896	0.009077	0.009068	0.009054	0.009041	0.009027	0.009014	0.009	0.008987	0.008973	0.00896
14000	0.001769	0.002521	0.002519	0.002515	0.002511	0.002508	0.002504	0.0025	0.002496	0.002493	0.002489
15000	0.000295	0.000504	0.000504	0.000503	0.000502	0.000502	0.000501	0.0005	0.000499	0.000499	0.000498

Combined Percentages for Engines <-75 hp and Drilled Wells

	2012						2015						2016						
	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
1000	0.002238	0.006889	0.002124	0.002355	0.004801	0.004801	0.002027	0.00624	0.001924	0.002133	0.004349	0.004349	0.002025	0.006233	0.001922	0.002131	0.004344	0.004344	0.002022
2000	0.009896	0.03066	0.009358	0.010377	0.021467	0.021467	0.009428	0.029209	0.008915	0.009886	0.020451	0.020451	0.00943	0.029216	0.008917	0.009888	0.020456	0.020456	0.00944
3000	0.006314	0.019642	0.005957	0.006606	0.013792	0.013792	0.00655	0.020375	0.006179	0.006853	0.014307	0.014307	0.006555	0.020391	0.006184	0.006859	0.014318	0.014318	0.006551
4000	0.001157	0.003608	0.00109	0.001208	0.002538	0.002538	0.00124	0.003866	0.001167	0.001295	0.00272	0.00272	0.001238	0.003862	0.001166	0.001293	0.002717	0.002717	0.001242
5000	0.00194	0.006073	0.001824	0.002023	0.004284	0.004284	0.002008	0.006285	0.001888	0.002094	0.004433	0.004433	0.002006	0.006279	0.001886	0.002091	0.004429	0.004429	0.002003
6000	0.000218	0.000785	0.000217	0.000241	0.000585	0.000585	0.000241	0.000866	0.000239	0.000266	0.000646	0.000646	0.00024	0.000865	0.000239	0.000266	0.000645	0.000645	0.00024
7000	0.000137	0.000494	0.000136	0.000152	0.000369	0.000369	0.000147	0.000529	0.000146	0.000162	0.000394	0.000394	0.000147	0.000528	0.000146	0.000162	0.000394	0.000394	0.000146
8000	7.08E-05	0.000255	7.03E-05	7.81E-05	0.000191	0.000191	6.58E-05	0.000237	6.54E-05	7.26E-05	0.000177	0.000177	6.57E-05	0.000237	6.53E-05	7.25E-05	0.000177	0.000177	6.56E-05
9000	0.000101	0.000363	1E-04	0.000111	0.000271	0.000271	9.64E-05	0.000348	9.59E-05	0.000106	0.00026	0.00026	9.63E-05	0.000348	9.58E-05	0.000106	0.00026	0.00026	9.62E-05
10000	6.34E-05	0.000229	6.3E-05	6.99E-05	0.000171	0.000171	8.51E-05	0.000308	8.46E-05	9.4E-05	0.00023	0.00023	8.51E-05	0.000307	8.45E-05	9.39E-05	0.00023	0.00023	8.49E-05
11000	6.13E-05	0.000226	6.09E-05	6.76E-05	0.000171	0.000171	6.5E-05	0.000239	6.46E-05	7.17E-05	0.000181	0.000181	6.5E-05	0.000239	6.45E-05	7.17E-05	0.000181	0.000181	6.49E-05
12000	6.58E-05	0.000242	6.53E-05	7.26E-05	0.000183	0.000183	8.55E-05	0.000315	8.49E-05	9.43E-05	0.000238	0.000238	8.54E-05	0.000314	8.48E-05	9.42E-05	0.000238	0.000238	8.53E-05
13000	4.85E-05	0.000179	4.82E-05	5.35E-05	0.000135	0.000135	7.47E-05	0.000275	7.42E-05	8.24E-05	0.000208	0.000208	7.46E-05	0.000275	7.41E-05	8.23E-05	0.000208	0.000208	7.45E-05
14000	1.45E-05	5.34E-05	1.44E-05	1.6E-05	4.04E-05	4.04E-05	2.07E-05	7.61E-05	2.05E-05	2.28E-05	5.76E-05	5.76E-05	2.07E-05	7.6E-05	2.05E-05	2.28E-05	5.76E-05	5.76E-05	2.06E-05
15000	2.41E-06	8.87E-06	2.39E-06	2.66E-06	6.72E-06	6.72E-06	4.12E-06	1.52E-05	4.09E-06	4.54E-06	1.15E-05	1.15E-05	4.12E-06	1.52E-05	4.09E-06	4.54E-06	1.15E-05	1.15E-05	4.11E-06

% Reduction for Tier 4i NOXGBHP	% Reduction for Tier 4f NOXGBHP	% Reduction for Tier 4i ROGGBHP	% Reduction for Tier 4f ROGGBHP	% Reduction for Tier 4i PM10GBHP	% Reduction for Tier 4f PM10GBHP
No Reduct	No Reduct	No Reduct	No Reduct	0.586753	0.958675

2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
0.081511	0.08139	0.081516	0.081395	0.081522	0.081401	0.081281	0.081653	0.081552	0.081678	0.081558
0.397863	0.397767	0.397423	0.397823	0.397727	0.397879	0.39803	0.397688	0.3972	0.397351	0.397502
0.284294	0.284367	0.28444	0.284513	0.284585	0.28441	0.284483	0.284555	0.284697	0.284768	0.28484
0.05492	0.055087	0.055005	0.054923	0.054842	0.055007	0.054926	0.055091	0.055023	0.054942	0.054862
0.091451	0.091315	0.091427	0.091291	0.091403	0.091515	0.091379	0.091244	0.091378	0.091244	0.091354
0.022614	0.022581	0.022547	0.022514	0.02248	0.022447	0.022414	0.022381	0.022353	0.02232	0.022288
0.013917	0.013896	0.013875	0.013855	0.013834	0.013814	0.013793	0.013773	0.013756	0.013736	0.013715
0.006213	0.006203	0.006194	0.006185	0.006176	0.006167	0.006158	0.006149	0.006387	0.006377	0.006368
0.009195	0.009181	0.009415	0.009401	0.009387	0.009373	0.00936	0.009346	0.009334	0.009321	0.009307
0.008201	0.008189	0.008176	0.008164	0.008152	0.00814	0.008128	0.008116	0.008106	0.008094	0.008082
0.007704	0.007692	0.007681	0.007669	0.007658	0.007647	0.007882	0.00787	0.00786	0.007849	0.007837
0.010189	0.010174	0.010159	0.010143	0.010128	0.010113	0.010099	0.010084	0.010317	0.010302	0.010287
0.008946	0.009181	0.009167	0.009154	0.00914	0.009127	0.009113	0.0091	0.009089	0.009075	0.009062
0.002485	0.002481	0.002478	0.002474	0.00247	0.002467	0.002463	0.002459	0.002456	0.002453	0.002449
0.000497	0.000496	0.000496	0.000495	0.000494	0.000493	0.000493	0.000492	0.000491	0.000491	0.00049

						2017					
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
0.006224	0.001919	0.002128	0.004338	0.004338	0.002031	0.006253	0.001928	0.002138	0.004358	0.004358	0.002028
0.029246	0.008926	0.009898	0.020477	0.020477	0.009432	0.029221	0.008918	0.00989	0.020459	0.020459	0.009441
0.020378	0.00618	0.006854	0.014309	0.014309	0.006553	0.020384	0.006182	0.006856	0.014313	0.014313	0.006549
0.003874	0.00117	0.001297	0.002726	0.002726	0.00124	0.003868	0.001168	0.001296	0.002722	0.002722	0.001238
0.006269	0.001883	0.002088	0.004422	0.004422	0.002005	0.006277	0.001885	0.002091	0.004427	0.004427	0.002008
0.000864	0.000239	0.000265	0.000644	0.000644	0.00024	0.000863	0.000238	0.000265	0.000643	0.000643	0.000239
0.000527	0.000146	0.000162	0.000393	0.000393	0.000146	0.000526	0.000145	0.000161	0.000393	0.000393	0.000146
0.000237	6.52E-05	7.24E-05	0.000177	0.000177	6.55E-05	0.000236	6.51E-05	7.23E-05	0.000176	0.000176	6.54E-05
0.000347	9.56E-05	0.000106	0.000259	0.000259	9.61E-05	0.000347	9.55E-05	0.000106	0.000259	0.000259	9.59E-05
0.000307	8.44E-05	9.37E-05	0.000229	0.000229	8.48E-05	0.000306	8.43E-05	9.36E-05	0.000229	0.000229	8.47E-05
0.000239	6.44E-05	7.16E-05	0.000181	0.000181	6.48E-05	0.000238	6.43E-05	7.14E-05	0.00018	0.00018	6.47E-05
0.000314	8.47E-05	9.4E-05	0.000238	0.000238	8.51E-05	0.000313	8.45E-05	9.39E-05	0.000237	0.000237	8.5E-05
0.000274	7.4E-05	8.22E-05	0.000208	0.000208	7.44E-05	0.000274	7.39E-05	8.2E-05	0.000207	0.000207	7.43E-05
7.59E-05	2.05E-05	2.27E-05	5.75E-05	5.75E-05	2.06E-05	7.58E-05	2.04E-05	2.27E-05	5.74E-05	5.74E-05	2.06E-05
1.51E-05	4.08E-06	4.53E-06	1.15E-05	1.15E-05	4.11E-06	1.51E-05	4.07E-06	4.53E-06	1.15E-05	1.15E-05	4.1E-06

2019						2020						2021						20	
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON
0.006244	0.001925	0.002135	0.004351	0.004351	0.002032	0.006254	0.001928	0.002138	0.004358	0.004358	0.002028	0.006244	0.001925	0.002135	0.004352	0.004352	0.002025	0.006235	0.001922
0.02925	0.008927	0.0099	0.02048	0.02048	0.009439	0.029243	0.008925	0.009897	0.020475	0.020475	0.009437	0.029236	0.008923	0.009895	0.02047	0.02047	0.009452	0.029284	0.008938
0.020371	0.006178	0.006852	0.014304	0.014304	0.006551	0.020376	0.00618	0.006853	0.014308	0.014308	0.006558	0.020399	0.006187	0.006861	0.014324	0.014324	0.006554	0.020387	0.006183
0.003862	0.001166	0.001294	0.002717	0.002717	0.001242	0.003874	0.00117	0.001298	0.002726	0.002726	0.00124	0.003868	0.001168	0.001296	0.002722	0.002722	0.001238	0.003863	0.001166
0.006285	0.001887	0.002093	0.004433	0.004433	0.002005	0.006275	0.001885	0.00209	0.004426	0.004426	0.002007	0.006283	0.001887	0.002093	0.004432	0.004432	0.002004	0.006274	0.001884
0.000861	0.000238	0.000264	0.000642	0.000642	0.000239	0.00086	0.000238	0.000264	0.000641	0.000641	0.000239	0.000859	0.000237	0.000264	0.00064	0.00064	0.000238	0.000857	0.000237
0.000526	0.000145	0.000161	0.000392	0.000392	0.000146	0.000525	0.000145	0.000161	0.000392	0.000392	0.000145	0.000524	0.000145	0.000161	0.000391	0.000391	0.000145	0.000523	0.000144
0.000236	6.5E-05	7.22E-05	0.000176	0.000176	6.53E-05	0.000236	6.49E-05	7.21E-05	0.000176	0.000176	6.52E-05	0.000235	6.48E-05	7.2E-05	0.000176	0.000176	6.51E-05	0.000235	6.47E-05
0.000346	9.53E-05	0.000106	0.000259	0.000259	9.58E-05	0.000346	9.52E-05	0.000106	0.000258	0.000258	9.56E-05	0.000345	9.51E-05	0.000106	0.000258	0.000258	9.55E-05	0.000345	9.49E-05
0.000306	8.41E-05	9.34E-05	0.000229	0.000229	8.45E-05	0.000305	8.4E-05	9.33E-05	0.000228	0.000228	8.44E-05	0.000305	8.39E-05	9.32E-05	0.000228	0.000228	8.43E-05	0.000305	8.38E-05
0.000238	6.42E-05	7.13E-05	0.00018	0.00018	6.46E-05	0.000238	6.41E-05	7.12E-05	0.00018	0.00018	6.45E-05	0.000237	6.4E-05	7.11E-05	0.00018	0.00018	6.44E-05	0.000237	6.39E-05
0.000313	8.44E-05	9.37E-05	0.000237	0.000237	8.49E-05	0.000312	8.43E-05	9.36E-05	0.000236	0.000236	8.48E-05	0.000312	8.41E-05	9.35E-05	0.000236	0.000236	8.46E-05	0.000311	8.4E-05
0.000273	7.38E-05	8.19E-05	0.000207	0.000207	7.42E-05	0.000273	7.36E-05	8.18E-05	0.000207	0.000207	7.41E-05	0.000273	7.35E-05	8.17E-05	0.000206	0.000206	7.4E-05	0.000272	7.34E-05
7.57E-05	2.04E-05	2.27E-05	5.73E-05	5.73E-05	2.05E-05	7.56E-05	2.04E-05	2.26E-05	5.72E-05	5.72E-05	2.05E-05	7.55E-05	2.03E-05	2.26E-05	5.72E-05	5.72E-05	2.05E-05	7.53E-05	2.03E-05
1.51E-05	4.07E-06	4.52E-06	1.14E-05	1.14E-05	4.09E-06	1.51E-05	4.06E-06	4.51E-06	1.14E-05	1.14E-05	4.09E-06	1.5E-05	4.06E-06	4.51E-06	1.14E-05	1.14E-05	4.08E-06	1.5E-05	4.05E-06

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2023						2024						2025								
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON
0.002132	0.004345	0.004345	0.002029	0.006245	0.001926	0.002135	0.004352	0.004352	0.002026	0.006235	0.001923	0.002132	0.004346	0.004346	0.002029	0.006245	0.001926	0.002135	0.004352
0.009911	0.020503	0.020503	0.009456	0.029295	0.008941	0.009915	0.020511	0.020511	0.009448	0.02927	0.008933	0.009906	0.020493	0.020493	0.009445	0.029263	0.008931	0.009904	0.020488
0.006857	0.014315	0.014315	0.00655	0.020374	0.006179	0.006853	0.014306	0.014306	0.006546	0.020361	0.006175	0.006849	0.014297	0.014297	0.006548	0.020367	0.006177	0.00685	0.014301
0.001294	0.002718	0.002718	0.001242	0.003874	0.00117	0.001298	0.002726	0.002726	0.00124	0.003869	0.001168	0.001296	0.002722	0.002722	0.001238	0.003863	0.001166	0.001294	0.002718
0.00209	0.004425	0.004425	0.002001	0.006264	0.001881	0.002087	0.004418	0.004418	0.002009	0.006289	0.001889	0.002095	0.004436	0.004436	0.002006	0.00628	0.001886	0.002092	0.004429
0.000263	0.000639	0.000639	0.000238	0.000856	0.000237	0.000263	0.000638	0.000638	0.000243	0.000874	0.000242	0.000268	0.000652	0.000652	0.000242	0.000873	0.000241	0.000268	0.000651
0.00016	0.00039	0.00039	0.000145	0.000523	0.000144	0.00016	0.00039	0.00039	0.000145	0.000522	0.000144	0.00016	0.000389	0.000389	0.000147	0.00053	0.000146	0.000163	0.000396
7.19E-05	0.000175	0.000175	6.5E-05	0.000235	6.46E-05	7.18E-05	0.000175	0.000175	6.49E-05	0.000234	6.45E-05	7.17E-05	0.000175	0.000175	6.48E-05	0.000234	6.44E-05	7.16E-05	0.000175
0.000105	0.000258	0.000258	9.53E-05	0.000344	9.48E-05	0.000105	0.000257	0.000257	9.52E-05	0.000344	9.46E-05	0.000105	0.000257	0.000257	9.51E-05	0.000343	9.45E-05	0.000105	0.000256
9.3E-05	0.000228	0.000228	8.42E-05	0.000304	8.36E-05	9.29E-05	0.000227	0.000227	8.4E-05	0.000304	8.35E-05	9.27E-05	0.000227	0.000227	8.39E-05	0.000303	8.34E-05	9.26E-05	0.000227
7.1E-05	0.000179	0.000179	6.43E-05	0.000236	6.38E-05	7.09E-05	0.000179	0.000179	6.42E-05	0.000236	6.37E-05	7.08E-05	0.000179	0.000179	6.41E-05	0.000236	6.37E-05	7.07E-05	0.000178
9.33E-05	0.000236	0.000236	8.45E-05	0.000311	8.39E-05	9.32E-05	0.000235	0.000235	8.44E-05	0.00031	8.38E-05	9.3E-05	0.000235	0.000235	8.43E-05	0.00031	8.36E-05	9.29E-05	0.000235
8.16E-05	0.000206	0.000206	7.39E-05	0.000272	7.33E-05	8.14E-05	0.000206	0.000206	7.37E-05	0.000271	7.32E-05	8.13E-05	0.000206	0.000206	7.36E-05	0.000271	7.31E-05	8.12E-05	0.000205
2.26E-05	5.71E-05	5.71E-05	2.04E-05	7.52E-05	2.03E-05	2.25E-05	5.7E-05	5.7E-05	2.04E-05	7.51E-05	2.03E-05	2.25E-05	5.69E-05	5.69E-05	2.04E-05	7.5E-05	2.02E-05	2.25E-05	5.68E-05
4.5E-06	1.14E-05	1.14E-05	4.07E-06	1.5E-05	4.04E-06	4.49E-06	1.14E-05	1.14E-05	4.07E-06	1.5E-05	4.04E-06	4.48E-06	1.13E-05	1.13E-05	4.06E-06	1.5E-05	4.03E-06	4.48E-06	1.13E-05

2026						2027						2028								
PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
0.004352	0.002026	0.006236	0.001923	0.002132	0.004346	0.004346	0.002029	0.006245	0.001926	0.002135	0.004353	0.004353	0.002026	0.006236	0.001923	0.002132	0.004346	0.004346	0.002029
0.020488	0.009443	0.029256	0.008929	0.009902	0.020484	0.020484	0.009435	0.029231	0.008921	0.009893	0.020466	0.020466	0.009444	0.02926	0.00893	0.009903	0.020486	0.020486	0.009442
0.014301	0.006549	0.020372	0.006178	0.006852	0.014305	0.014305	0.006551	0.020377	0.00618	0.006854	0.014308	0.014308	0.006553	0.020382	0.006181	0.006856	0.014312	0.014312	0.006554
0.002718	0.001242	0.003874	0.00117	0.001298	0.002726	0.002726	0.00124	0.003869	0.001168	0.001296	0.002722	0.002722	0.001239	0.003863	0.001167	0.001294	0.002718	0.002718	0.001237
0.004429	0.002003	0.00627	0.001883	0.002089	0.004423	0.004423	0.002006	0.006278	0.001885	0.002091	0.004428	0.004428	0.002003	0.006269	0.001883	0.002088	0.004422	0.004422	0.002005
0.000651	0.000242	0.000871	0.000241	0.000267	0.00065	0.00065	0.000242	0.00087	0.000241	0.000267	0.000649	0.000649	0.000241	0.000869	0.00024	0.000267	0.000648	0.000648	0.000241
0.000396	0.000147	0.00053	0.000146	0.000162	0.000395	0.000395	0.000147	0.000529	0.000146	0.000162	0.000395	0.000395	0.000147	0.000528	0.000146	0.000162	0.000394	0.000394	0.000146
0.000175	6.47E-05	0.000233	6.44E-05	7.15E-05	0.000174	0.000174	6.46E-05	0.000233	6.43E-05	7.14E-05	0.000174	0.000174	6.45E-05	0.000233	6.42E-05	7.12E-05	0.000174	0.000174	6.44E-05
0.000256	9.49E-05	0.000343	9.43E-05	0.000105	0.000256	0.000256	9.73E-05	0.000351	9.67E-05	0.000107	0.000262	0.000262	9.72E-05	0.000351	9.66E-05	0.000107	0.000262	0.000262	9.7E-05
0.000227	8.38E-05	0.000303	8.33E-05	9.25E-05	0.000226	0.000226	8.37E-05	0.000302	8.31E-05	9.23E-05	0.000226	0.000226	8.35E-05	0.000302	8.3E-05	9.22E-05	0.000226	0.000226	8.34E-05
0.000178	6.4E-05	0.000235	6.36E-05	7.06E-05	0.000178	0.000178	6.39E-05	0.000235	6.35E-05	7.05E-05	0.000178	0.000178	6.38E-05	0.000235	6.34E-05	7.04E-05	0.000178	0.000178	6.37E-05
0.000235	8.41E-05	0.00031	8.35E-05	9.28E-05	0.000234	0.000234	8.4E-05	0.000309	8.34E-05	9.26E-05	0.000234	0.000234	8.39E-05	0.000309	8.33E-05	9.25E-05	0.000234	0.000234	8.38E-05
0.000205	7.56E-05	0.000278	7.5E-05	8.33E-05	0.000211	0.000211	7.55E-05	0.000278	7.49E-05	8.32E-05	0.00021	0.00021	7.53E-05	0.000277	7.48E-05	8.31E-05	0.00021	0.00021	7.52E-05
5.68E-05	2.03E-05	7.49E-05	2.02E-05	2.24E-05	5.67E-05	5.67E-05	2.03E-05	7.48E-05	2.02E-05	2.24E-05	5.66E-05	5.66E-05	2.03E-05	7.47E-05	2.01E-05	2.24E-05	5.66E-05	5.66E-05	2.03E-05
1.13E-05	4.06E-06	1.49E-05	4.03E-06	4.47E-06	1.13E-05	1.13E-05	4.05E-06	1.49E-05	4.02E-06	4.46E-06	1.13E-05	1.13E-05	4.04E-06	1.49E-05	4.01E-06	4.46E-06	1.13E-05	1.13E-05	4.04E-06

2029						2030						2031						20	
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON
0.006246	0.001926	0.002135	0.004353	0.004353	0.002026	0.006237	0.001923	0.002132	0.004346	0.004346	0.002023	0.006227	0.00192	0.002129	0.00434	0.00434	0.002032	0.006256	0.001929
0.029253	0.008928	0.009901	0.020482	0.020482	0.009446	0.029264	0.008932	0.009904	0.020489	0.020489	0.009449	0.029275	0.008935	0.009908	0.020497	0.020497	0.009441	0.02925	0.008927
0.020387	0.006183	0.006857	0.014316	0.014316	0.00655	0.020375	0.006179	0.006853	0.014307	0.014307	0.006552	0.02038	0.006181	0.006855	0.01431	0.01431	0.006554	0.020385	0.006182
0.003857	0.001165	0.001292	0.002714	0.002714	0.00124	0.003869	0.001168	0.001296	0.002722	0.002722	0.001239	0.003863	0.001167	0.001294	0.002718	0.002718	0.001242	0.003875	0.00117
0.006276	0.001885	0.002091	0.004427	0.004427	0.002008	0.006284	0.001887	0.002093	0.004432	0.004432	0.002005	0.006275	0.001884	0.00209	0.004426	0.004426	0.002002	0.006265	0.001882
0.000868	0.00024	0.000266	0.000647	0.000647	0.000241	0.000866	0.000239	0.000266	0.000646	0.000646	0.00024	0.000865	0.000239	0.000265	0.000645	0.000645	0.00024	0.000864	0.000239
0.000527	0.000146	0.000162	0.000393	0.000393	0.000146	0.000527	0.000145	0.000161	0.000393	0.000393	0.000146	0.000526	0.000145	0.000161	0.000392	0.000392	0.000146	0.000525	0.000145
0.000232	6.41E-05	7.11E-05	0.000174	0.000174	6.43E-05	0.000232	6.4E-05	7.1E-05	0.000173	0.000173	6.43E-05	0.000232	6.39E-05	7.09E-05	0.000173	0.000173	6.42E-05	0.000231	6.38E-05
0.00035	9.65E-05	0.000107	0.000262	0.000262	9.69E-05	0.00035	9.63E-05	0.000107	0.000261	0.000261	9.68E-05	0.000349	9.62E-05	0.000107	0.000261	0.000261	9.66E-05	0.000349	9.6E-05
0.000301	8.29E-05	9.21E-05	0.000225	0.000225	8.33E-05	0.000301	8.28E-05	9.19E-05	0.000225	0.000225	8.32E-05	0.0003	8.27E-05	9.18E-05	0.000225	0.000225	8.31E-05	0.0003	8.25E-05
0.000234	6.33E-05	7.03E-05	0.000177	0.000177	6.36E-05	0.000234	6.32E-05	7.02E-05	0.000177	0.000177	6.56E-05	0.000241	6.51E-05	7.23E-05	0.000183	0.000183	6.55E-05	0.000241	6.5E-05
0.000308	8.32E-05	9.24E-05	0.000233	0.000233	8.36E-05	0.000308	8.3E-05	9.22E-05	0.000233	0.000233	8.35E-05	0.000307	8.29E-05	9.21E-05	0.000233	0.000233	8.34E-05	0.000307	8.28E-05
0.000277	7.47E-05	8.29E-05	0.00021	0.00021	7.51E-05	0.000276	7.46E-05	8.28E-05	0.000209	0.000209	7.5E-05	0.000276	7.45E-05	8.27E-05	0.000209	0.000209	7.49E-05	0.000276	7.43E-05
7.46E-05	2.01E-05	2.23E-05	5.65E-05	5.65E-05	2.02E-05	7.44E-05	2.01E-05	2.23E-05	5.64E-05	5.64E-05	2.02E-05	7.43E-05	2E-05	2.23E-05	5.63E-05	5.63E-05	2.02E-05	7.42E-05	2E-05
1.49E-05	4.01E-06	4.45E-06	1.13E-05	1.13E-05	4.03E-06	1.48E-05	4E-06	4.45E-06	1.12E-05	1.12E-05	4.03E-06	1.48E-05	4E-06	4.44E-06	1.12E-05	1.12E-05	4.02E-06	1.48E-05	3.99E-06

2033						2034						2035								
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	
0.002139	0.00436	0.00436	0.00203	0.006248	0.001927	0.002136	0.004355	0.004355	0.002033	0.006258	0.00193	0.00214	0.004361	0.004361	0.00203	0.006249	0.001927	0.002136	0.004355	
0.0099	0.02048	0.020479	0.009429	0.029214	0.008916	0.009887	0.020454	0.020454	0.009433	0.029225	0.00892	0.009891	0.020462	0.020462	0.009437	0.029236	0.008923	0.009895	0.02047	
0.006857	0.014314	0.014314	0.006557	0.020395	0.006185	0.00686	0.014321	0.014321	0.006558	0.020401	0.006187	0.006862	0.014325	0.014325	0.00656	0.020406	0.006189	0.006863	0.014328	
0.001298	0.002726	0.002726	0.001241	0.00387	0.001169	0.001296	0.002723	0.002723	0.001239	0.003864	0.001167	0.001294	0.002719	0.002719	0.001237	0.003859	0.001165	0.001292	0.002715	
0.002087	0.004419	0.004419	0.002005	0.006275	0.001884	0.00209	0.004426	0.004426	0.002002	0.006265	0.001882	0.002087	0.004419	0.004419	0.002004	0.006273	0.001884	0.00209	0.004425	
0.000265	0.000644	0.000644	0.00024	0.000863	0.000238	0.000265	0.000643	0.000643	0.000239	0.000861	0.000238	0.000264	0.000642	0.000642	0.000239	0.00086	0.000238	0.000264	0.000641	
0.000161	0.000392	0.000392	0.000146	0.000524	0.000145	0.000161	0.000391	0.000391	0.000145	0.000524	0.000145	0.00016	0.000391	0.000391	0.000145	0.000523	0.000144	0.00016	0.00039	
7.08E-05	0.000173	0.000173	6.66E-05	0.00024	6.63E-05	7.36E-05	0.000179	0.000179	6.65E-05	0.00024	6.62E-05	7.35E-05	0.000179	0.000179	6.64E-05	0.00024	6.61E-05	7.34E-05	0.000179	
0.000107	0.000261	0.000261	9.65E-05	0.000348	9.59E-05	0.000107	0.00026	0.00026	9.64E-05	0.000348	9.58E-05	0.000106	0.00026	0.00026	9.62E-05	0.000347	9.56E-05	0.000106	0.000259	
9.16E-05	0.000224	0.000224	8.29E-05	0.0003	8.24E-05	9.15E-05	0.000224	0.000224	8.28E-05	0.000299	8.23E-05	9.14E-05	0.000224	0.000224	8.27E-05	0.000299	8.22E-05	9.13E-05	0.000223	
7.22E-05	0.000182	0.000182	6.54E-05	0.000241	6.49E-05	7.21E-05	0.000182	0.000182	6.53E-05	0.00024	6.49E-05	7.2E-05	0.000182	0.000182	6.52E-05	0.00024	6.48E-05	7.19E-05	0.000182	
9.19E-05	0.000232	0.000232	8.53E-05	0.000314	8.47E-05	9.41E-05	0.000238	0.000238	8.52E-05	0.000313	8.46E-05	9.39E-05	0.000237	0.000237	8.51E-05	0.000313	8.44E-05	9.38E-05	0.000237	
8.26E-05	0.000209	0.000209	7.48E-05	0.000275	7.43E-05	8.25E-05	0.000208	0.000208	7.47E-05	0.000275	7.41E-05	8.24E-05	0.000208	0.000208	7.46E-05	0.000275	7.4E-05	8.22E-05	0.000208	
2.22E-05	5.62E-05	5.62E-05	2.01E-05	7.41E-05	2E-05	2.22E-05	5.62E-05	5.62E-05	2.01E-05	7.4E-05	2E-05	2.22E-05	5.61E-05	5.61E-05	2.01E-05	7.39E-05	1.99E-05	2.21E-05	5.6E-05	
4.43E-06	1.12E-05	1.12E-05	4.02E-06	1.48E-05	3.99E-06	4.43E-06	1.12E-05	1.12E-05	4.01E-06	1.48E-05	3.98E-06	4.42E-06	1.12E-05	1.12E-05	4E-06	1.47E-05	3.97E-06	4.41E-06	1.12E-05	

PM25TON
0.004355
0.02047
0.014328
0.002715
0.004425
0.000641
0.00039
0.000179
0.000259
0.000223
0.000182
0.000237
0.000208
5.6E-05
1.12E-05

Final % Reduction GivenTier 4i

	2012						2015						2016					
	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
1000	No Reduct	No Reduct	No Reduct	No Reduct	0.002817	0.002817	No Reduct	No Reduct	No Reduct	No Reduct	0.002552	0.002552	No Reduct	No Reduct	No Reduct	No Reduct	0.002549	0.002549	No Reduct
2000	No Reduct	No Reduct	No Reduct	No Reduct	0.012596	0.012596	No Reduct	No Reduct	No Reduct	No Reduct	0.011999	0.011999	No Reduct	No Reduct	No Reduct	No Reduct	0.012003	0.012003	No Reduct
3000	No Reduct	No Reduct	No Reduct	No Reduct	0.008092	0.008092	No Reduct	No Reduct	No Reduct	No Reduct	0.008395	0.008395	No Reduct	No Reduct	No Reduct	No Reduct	0.008401	0.008401	No Reduct
4000	No Reduct	No Reduct	No Reduct	No Reduct	0.001489	0.001489	No Reduct	No Reduct	No Reduct	No Reduct	0.001596	0.001596	No Reduct	No Reduct	No Reduct	No Reduct	0.001594	0.001594	No Reduct
5000	No Reduct	No Reduct	No Reduct	No Reduct	0.002513	0.002513	No Reduct	No Reduct	No Reduct	No Reduct	0.002601	0.002601	No Reduct	No Reduct	No Reduct	No Reduct	0.002598	0.002598	No Reduct
6000	No Reduct	No Reduct	No Reduct	No Reduct	0.000343	0.000343	No Reduct	No Reduct	No Reduct	No Reduct	0.000379	0.000379	No Reduct	No Reduct	No Reduct	No Reduct	0.000378	0.000378	No Reduct
7000	No Reduct	No Reduct	No Reduct	No Reduct	0.000216	0.000216	No Reduct	No Reduct	No Reduct	No Reduct	0.000231	0.000231	No Reduct	No Reduct	No Reduct	No Reduct	0.000231	0.000231	No Reduct
8000	No Reduct	No Reduct	No Reduct	No Reduct	0.000112	0.000112	No Reduct	No Reduct	No Reduct	No Reduct	0.000104	0.000104	No Reduct	No Reduct	No Reduct	No Reduct	0.000104	0.000104	No Reduct
9000	No Reduct	No Reduct	No Reduct	No Reduct	0.000159	0.000159	No Reduct	No Reduct	No Reduct	No Reduct	0.000153	0.000153	No Reduct	No Reduct	No Reduct	No Reduct	0.000152	0.000152	No Reduct
10000	No Reduct	No Reduct	No Reduct	No Reduct	0.0001	0.0001	No Reduct	No Reduct	No Reduct	No Reduct	0.000135	0.000135	No Reduct	No Reduct	No Reduct	No Reduct	0.000135	0.000135	No Reduct
11000	No Reduct	No Reduct	No Reduct	No Reduct	0.0001	0.0001	No Reduct	No Reduct	No Reduct	No Reduct	0.000106	0.000106	No Reduct	No Reduct	No Reduct	No Reduct	0.000106	0.000106	No Reduct
12000	No Reduct	No Reduct	No Reduct	No Reduct	0.000108	0.000108	No Reduct	No Reduct	No Reduct	No Reduct	0.00014	0.00014	No Reduct	No Reduct	No Reduct	No Reduct	0.00014	0.00014	No Reduct
13000	No Reduct	No Reduct	No Reduct	No Reduct	7.94E-05	7.94E-05	No Reduct	No Reduct	No Reduct	No Reduct	0.000122	0.000122	No Reduct	No Reduct	No Reduct	No Reduct	0.000122	0.000122	No Reduct
14000	No Reduct	No Reduct	No Reduct	No Reduct	2.37E-05	2.37E-05	No Reduct	No Reduct	No Reduct	No Reduct	3.38E-05	3.38E-05	No Reduct	No Reduct	No Reduct	No Reduct	3.38E-05	3.38E-05	No Reduct
15000	No Reduct	No Reduct	No Reduct	No Reduct	3.94E-06	3.94E-06	No Reduct	No Reduct	No Reduct	No Reduct	6.75E-06	6.75E-06	No Reduct	No Reduct	No Reduct	No Reduct	6.74E-06	6.74E-06	No Reduct

Final % Reduction GivenTier 4f

	2012						2015						2016					
	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
1000	No Reduct	No Reduct	No Reduct	No Reduct	0.004603	0.004603	No Reduct	No Reduct	No Reduct	No Reduct	0.004169	0.004169	No Reduct	No Reduct	No Reduct	No Reduct	0.004165	0.004165	No Reduct
2000	No Reduct	No Reduct	No Reduct	No Reduct	0.02058	0.02058	No Reduct	No Reduct	No Reduct	No Reduct	0.019605	0.019605	No Reduct	No Reduct	No Reduct	No Reduct	0.019611	0.019611	No Reduct
3000	No Reduct	No Reduct	No Reduct	No Reduct	0.013222	0.013222	No Reduct	No Reduct	No Reduct	No Reduct	0.013716	0.013716	No Reduct	No Reduct	No Reduct	No Reduct	0.013726	0.013726	No Reduct
4000	No Reduct	No Reduct	No Reduct	No Reduct	0.002434	0.002434	No Reduct	No Reduct	No Reduct	No Reduct	0.002608	0.002608	No Reduct	No Reduct	No Reduct	No Reduct	0.002605	0.002605	No Reduct
5000	No Reduct	No Reduct	No Reduct	No Reduct	0.004107	0.004107	No Reduct	No Reduct	No Reduct	No Reduct	0.00425	0.00425	No Reduct	No Reduct	No Reduct	No Reduct	0.004246	0.004246	No Reduct
6000	No Reduct	No Reduct	No Reduct	No Reduct	0.000561	0.000561	No Reduct	No Reduct	No Reduct	No Reduct	0.000619	0.000619	No Reduct	No Reduct	No Reduct	No Reduct	0.000618	0.000618	No Reduct
7000	No Reduct	No Reduct	No Reduct	No Reduct	0.000354	0.000354	No Reduct	No Reduct	No Reduct	No Reduct	0.000378	0.000378	No Reduct	No Reduct	No Reduct	No Reduct	0.000378	0.000378	No Reduct
8000	No Reduct	No Reduct	No Reduct	No Reduct	0.000183	0.000183	No Reduct	No Reduct	No Reduct	No Reduct	0.00017	0.00017	No Reduct	No Reduct	No Reduct	No Reduct	0.00017	0.00017	No Reduct
9000	No Reduct	No Reduct	No Reduct	No Reduct	0.00026	0.00026	No Reduct	No Reduct	No Reduct	No Reduct	0.000249	0.000249	No Reduct	No Reduct	No Reduct	No Reduct	0.000249	0.000249	No Reduct
10000	No Reduct	No Reduct	No Reduct	No Reduct	0.000164	0.000164	No Reduct	No Reduct	No Reduct	No Reduct	0.00022	0.00022	No Reduct	No Reduct	No Reduct	No Reduct	0.00022	0.00022	No Reduct
11000	No Reduct	No Reduct	No Reduct	No Reduct	0.000164	0.000164	No Reduct	No Reduct	No Reduct	No Reduct	0.000174	0.000174	No Reduct	No Reduct	No Reduct	No Reduct	0.000173	0.000173	No Reduct
12000	No Reduct	No Reduct	No Reduct	No Reduct	0.000176	0.000176	No Reduct	No Reduct	No Reduct	No Reduct	0.000228	0.000228	No Reduct	No Reduct	No Reduct	No Reduct	0.000228	0.000228	No Reduct
13000	No Reduct	No Reduct	No Reduct	No Reduct	0.00013	0.00013	No Reduct	No Reduct	No Reduct	No Reduct	0.0002	0.0002	No Reduct	No Reduct	No Reduct	No Reduct	0.000199	0.000199	No Reduct
14000	No Reduct	No Reduct	No Reduct	No Reduct	3.88E-05	3.88E-05	No Reduct	No Reduct	No Reduct	No Reduct	5.53E-05	5.53E-05	No Reduct	No Reduct	No Reduct	No Reduct	5.52E-05	5.52E-05	No Reduct
15000	No Reduct	No Reduct	No Reduct	No Reduct	6.44E-06	6.44E-06	No Reduct	No Reduct	No Reduct	No Reduct	1.1E-05	1.1E-05	No Reduct	No Reduct	No Reduct	No Reduct	1.1E-05	1.1E-05	No Reduct

2017						2018					
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
No Reduct	No Reduct	No Reduct	0.002545	0.002545	No Reduct	No Reduct	No Reduct	No Reduct	0.002557	0.002557	No Reduct
No Reduct	No Reduct	No Reduct	0.012015	0.012015	No Reduct	No Reduct	No Reduct	No Reduct	0.012004	0.012004	No Reduct
No Reduct	No Reduct	No Reduct	0.008396	0.008396	No Reduct	No Reduct	No Reduct	No Reduct	0.008398	0.008398	No Reduct
No Reduct	No Reduct	No Reduct	0.001599	0.001599	No Reduct	No Reduct	No Reduct	No Reduct	0.001597	0.001597	No Reduct
No Reduct	No Reduct	No Reduct	0.002595	0.002595	No Reduct	No Reduct	No Reduct	No Reduct	0.002598	0.002598	No Reduct
No Reduct	No Reduct	No Reduct	0.000378	0.000378	No Reduct	No Reduct	No Reduct	No Reduct	0.000377	0.000377	No Reduct
No Reduct	No Reduct	No Reduct	0.000231	0.000231	No Reduct	No Reduct	No Reduct	No Reduct	0.00023	0.00023	No Reduct
No Reduct	No Reduct	No Reduct	0.000104	0.000104	No Reduct	No Reduct	No Reduct	No Reduct	0.000104	0.000104	No Reduct
No Reduct	No Reduct	No Reduct	0.000152	0.000152	No Reduct	No Reduct	No Reduct	No Reduct	0.000152	0.000152	No Reduct
No Reduct	No Reduct	No Reduct	0.000135	0.000135	No Reduct	No Reduct	No Reduct	No Reduct	0.000134	0.000134	No Reduct
No Reduct	No Reduct	No Reduct	0.000106	0.000106	No Reduct	No Reduct	No Reduct	No Reduct	0.000106	0.000106	No Reduct
No Reduct	No Reduct	No Reduct	0.000139	0.000139	No Reduct	No Reduct	No Reduct	No Reduct	0.000139	0.000139	No Reduct
No Reduct	No Reduct	No Reduct	0.000122	0.000122	No Reduct	No Reduct	No Reduct	No Reduct	0.000122	0.000122	No Reduct
No Reduct	No Reduct	No Reduct	3.37E-05	3.37E-05	No Reduct	No Reduct	No Reduct	No Reduct	3.37E-05	3.37E-05	No Reduct
No Reduct	No Reduct	No Reduct	6.73E-06	6.73E-06	No Reduct	No Reduct	No Reduct	No Reduct	6.72E-06	6.72E-06	No Reduct

2017						2018					
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
No Reduct	No Reduct	No Reduct	0.004158	0.004158	No Reduct	No Reduct	No Reduct	No Reduct	0.004178	0.004178	No Reduct
No Reduct	No Reduct	No Reduct	0.019631	0.019631	No Reduct	No Reduct	No Reduct	No Reduct	0.019613	0.019613	No Reduct
No Reduct	No Reduct	No Reduct	0.013718	0.013718	No Reduct	No Reduct	No Reduct	No Reduct	0.013721	0.013721	No Reduct
No Reduct	No Reduct	No Reduct	0.002613	0.002613	No Reduct	No Reduct	No Reduct	No Reduct	0.002609	0.002609	No Reduct
No Reduct	No Reduct	No Reduct	0.004239	0.004239	No Reduct	No Reduct	No Reduct	No Reduct	0.004244	0.004244	No Reduct
No Reduct	No Reduct	No Reduct	0.000617	0.000617	No Reduct	No Reduct	No Reduct	No Reduct	0.000616	0.000616	No Reduct
No Reduct	No Reduct	No Reduct	0.000377	0.000377	No Reduct	No Reduct	No Reduct	No Reduct	0.000377	0.000377	No Reduct
No Reduct	No Reduct	No Reduct	0.000169	0.000169	No Reduct	No Reduct	No Reduct	No Reduct	0.000169	0.000169	No Reduct
No Reduct	No Reduct	No Reduct	0.000249	0.000249	No Reduct	No Reduct	No Reduct	No Reduct	0.000248	0.000248	No Reduct
No Reduct	No Reduct	No Reduct	0.00022	0.00022	No Reduct	No Reduct	No Reduct	No Reduct	0.00022	0.00022	No Reduct
No Reduct	No Reduct	No Reduct	0.000173	0.000173	No Reduct	No Reduct	No Reduct	No Reduct	0.000173	0.000173	No Reduct
No Reduct	No Reduct	No Reduct	0.000228	0.000228	No Reduct	No Reduct	No Reduct	No Reduct	0.000227	0.000227	No Reduct
No Reduct	No Reduct	No Reduct	0.000199	0.000199	No Reduct	No Reduct	No Reduct	No Reduct	0.000199	0.000199	No Reduct
No Reduct	No Reduct	No Reduct	5.51E-05	5.51E-05	No Reduct	No Reduct	No Reduct	No Reduct	5.5E-05	5.5E-05	No Reduct
No Reduct	No Reduct	No Reduct	1.1E-05	1.1E-05	No Reduct	No Reduct	No Reduct	No Reduct	1.1E-05	1.1E-05	No Reduct

2019						2020						2021						20
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON
No Reduct	No Reduct	No Reduct	0.002553	0.002553	No Reduct	No Reduct	No Reduct	No Reduct	0.002557	0.002557	No Reduct	No Reduct	No Reduct	No Reduct	0.002553	0.002553	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.012017	0.012017	No Reduct	No Reduct	No Reduct	No Reduct	0.012014	0.012014	No Reduct	No Reduct	No Reduct	No Reduct	0.012011	0.012011	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.008393	0.008393	No Reduct	No Reduct	No Reduct	No Reduct	0.008395	0.008395	No Reduct	No Reduct	No Reduct	No Reduct	0.008405	0.008405	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.001594	0.001594	No Reduct	No Reduct	No Reduct	No Reduct	0.001599	0.001599	No Reduct	No Reduct	No Reduct	No Reduct	0.001597	0.001597	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.002601	0.002601	No Reduct	No Reduct	No Reduct	No Reduct	0.002597	0.002597	No Reduct	No Reduct	No Reduct	No Reduct	0.0026	0.0026	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.000377	0.000377	No Reduct	No Reduct	No Reduct	No Reduct	0.000376	0.000376	No Reduct	No Reduct	No Reduct	No Reduct	0.000376	0.000376	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.00023	0.00023	No Reduct	No Reduct	No Reduct	No Reduct	0.00023	0.00023	No Reduct	No Reduct	No Reduct	No Reduct	0.000229	0.000229	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.000103	0.000103	No Reduct	No Reduct	No Reduct	No Reduct	0.000103	0.000103	No Reduct	No Reduct	No Reduct	No Reduct	0.000103	0.000103	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.000152	0.000152	No Reduct	No Reduct	No Reduct	No Reduct	0.000152	0.000152	No Reduct	No Reduct	No Reduct	No Reduct	0.000151	0.000151	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.000134	0.000134	No Reduct	No Reduct	No Reduct	No Reduct	0.000134	0.000134	No Reduct	No Reduct	No Reduct	No Reduct	0.000134	0.000134	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.000106	0.000106	No Reduct	No Reduct	No Reduct	No Reduct	0.000105	0.000105	No Reduct	No Reduct	No Reduct	No Reduct	0.000105	0.000105	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.000139	0.000139	No Reduct	No Reduct	No Reduct	No Reduct	0.000139	0.000139	No Reduct	No Reduct	No Reduct	No Reduct	0.000139	0.000139	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.000122	0.000122	No Reduct	No Reduct	No Reduct	No Reduct	0.000121	0.000121	No Reduct	No Reduct	No Reduct	No Reduct	0.000121	0.000121	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	3.36E-05	3.36E-05	No Reduct	No Reduct	No Reduct	No Reduct	3.36E-05	3.36E-05	No Reduct	No Reduct	No Reduct	No Reduct	3.35E-05	3.35E-05	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	6.71E-06	6.71E-06	No Reduct	No Reduct	No Reduct	No Reduct	6.7E-06	6.7E-06	No Reduct	No Reduct	No Reduct	No Reduct	6.69E-06	6.69E-06	No Reduct	No Reduct	No Reduct

2019						2020						2021						20
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON
No Reduct	No Reduct	No Reduct	0.004172	0.004172	No Reduct	No Reduct	No Reduct	No Reduct	0.004178	0.004178	No Reduct	No Reduct	No Reduct	No Reduct	0.004172	0.004172	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.019633	0.019633	No Reduct	No Reduct	No Reduct	No Reduct	0.019629	0.019629	No Reduct	No Reduct	No Reduct	No Reduct	0.019624	0.019624	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.013713	0.013713	No Reduct	No Reduct	No Reduct	No Reduct	0.013716	0.013716	No Reduct	No Reduct	No Reduct	No Reduct	0.013732	0.013732	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.002605	0.002605	No Reduct	No Reduct	No Reduct	No Reduct	0.002613	0.002613	No Reduct	No Reduct	No Reduct	No Reduct	0.002609	0.002609	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.00425	0.00425	No Reduct	No Reduct	No Reduct	No Reduct	0.004243	0.004243	No Reduct	No Reduct	No Reduct	No Reduct	0.004249	0.004249	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.000616	0.000616	No Reduct	No Reduct	No Reduct	No Reduct	0.000615	0.000615	No Reduct	No Reduct	No Reduct	No Reduct	0.000614	0.000614	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.000376	0.000376	No Reduct	No Reduct	No Reduct	No Reduct	0.000375	0.000375	No Reduct	No Reduct	No Reduct	No Reduct	0.000375	0.000375	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.000169	0.000169	No Reduct	No Reduct	No Reduct	No Reduct	0.000169	0.000169	No Reduct	No Reduct	No Reduct	No Reduct	0.000168	0.000168	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.000248	0.000248	No Reduct	No Reduct	No Reduct	No Reduct	0.000248	0.000248	No Reduct	No Reduct	No Reduct	No Reduct	0.000247	0.000247	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.000219	0.000219	No Reduct	No Reduct	No Reduct	No Reduct	0.000219	0.000219	No Reduct	No Reduct	No Reduct	No Reduct	0.000219	0.000219	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.000173	0.000173	No Reduct	No Reduct	No Reduct	No Reduct	0.000172	0.000172	No Reduct	No Reduct	No Reduct	No Reduct	0.000172	0.000172	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.000227	0.000227	No Reduct	No Reduct	No Reduct	No Reduct	0.000227	0.000227	No Reduct	No Reduct	No Reduct	No Reduct	0.000226	0.000226	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.000199	0.000199	No Reduct	No Reduct	No Reduct	No Reduct	0.000198	0.000198	No Reduct	No Reduct	No Reduct	No Reduct	0.000198	0.000198	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	5.5E-05	5.5E-05	No Reduct	No Reduct	No Reduct	No Reduct	5.49E-05	5.49E-05	No Reduct	No Reduct	No Reduct	No Reduct	5.48E-05	5.48E-05	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	1.1E-05	1.1E-05	No Reduct	No Reduct	No Reduct	No Reduct	1.09E-05	1.09E-05	No Reduct	No Reduct	No Reduct	No Reduct	1.09E-05	1.09E-05	No Reduct	No Reduct	No Reduct

22						2023						2024						2025	
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON
No Reduct	0.00255	0.00255	No Reduct	No Reduct	No Reduct	No Reduct	0.002554	0.002554	No Reduct	No Reduct	No Reduct	No Reduct	0.00255	0.00255	No Reduct	No Reduct	No Reduct	No Reduct	0.002554
No Reduct	0.01203	0.01203	No Reduct	No Reduct	No Reduct	No Reduct	0.012035	0.012035	No Reduct	No Reduct	No Reduct	No Reduct	0.012025	0.012025	No Reduct	No Reduct	No Reduct	No Reduct	0.012022
No Reduct	0.008399	0.008399	No Reduct	No Reduct	No Reduct	No Reduct	0.008394	0.008394	No Reduct	No Reduct	No Reduct	No Reduct	0.008389	0.008389	No Reduct	No Reduct	No Reduct	No Reduct	0.008391
No Reduct	0.001595	0.001595	No Reduct	No Reduct	No Reduct	No Reduct	0.001599	0.001599	No Reduct	No Reduct	No Reduct	No Reduct	0.001597	0.001597	No Reduct	No Reduct	No Reduct	No Reduct	0.001595
No Reduct	0.002596	0.002596	No Reduct	No Reduct	No Reduct	No Reduct	0.002593	0.002593	No Reduct	No Reduct	No Reduct	No Reduct	0.002603	0.002603	No Reduct	No Reduct	No Reduct	No Reduct	0.002599
No Reduct	0.000375	0.000375	No Reduct	No Reduct	No Reduct	No Reduct	0.000374	0.000374	No Reduct	No Reduct	No Reduct	No Reduct	0.000382	0.000382	No Reduct	No Reduct	No Reduct	No Reduct	0.000382
No Reduct	0.000229	0.000229	No Reduct	No Reduct	No Reduct	No Reduct	0.000229	0.000229	No Reduct	No Reduct	No Reduct	No Reduct	0.000228	0.000228	No Reduct	No Reduct	No Reduct	No Reduct	0.000232
No Reduct	0.000103	0.000103	No Reduct	No Reduct	No Reduct	No Reduct	0.000103	0.000103	No Reduct	No Reduct	No Reduct	No Reduct	0.000103	0.000103	No Reduct	No Reduct	No Reduct	No Reduct	0.000102
No Reduct	0.000151	0.000151	No Reduct	No Reduct	No Reduct	No Reduct	0.000151	0.000151	No Reduct	No Reduct	No Reduct	No Reduct	0.000151	0.000151	No Reduct	No Reduct	No Reduct	No Reduct	0.00015
No Reduct	0.000134	0.000134	No Reduct	No Reduct	No Reduct	No Reduct	0.000133	0.000133	No Reduct	No Reduct	No Reduct	No Reduct	0.000133	0.000133	No Reduct	No Reduct	No Reduct	No Reduct	0.000133
No Reduct	0.000105	0.000105	No Reduct	No Reduct	No Reduct	No Reduct	0.000105	0.000105	No Reduct	No Reduct	No Reduct	No Reduct	0.000105	0.000105	No Reduct	No Reduct	No Reduct	No Reduct	0.000105
No Reduct	0.000138	0.000138	No Reduct	No Reduct	No Reduct	No Reduct	0.000138	0.000138	No Reduct	No Reduct	No Reduct	No Reduct	0.000138	0.000138	No Reduct	No Reduct	No Reduct	No Reduct	0.000138
No Reduct	0.000121	0.000121	No Reduct	No Reduct	No Reduct	No Reduct	0.000121	0.000121	No Reduct	No Reduct	No Reduct	No Reduct	0.000121	0.000121	No Reduct	No Reduct	No Reduct	No Reduct	0.00012
No Reduct	3.35E-05	3.35E-05	No Reduct	No Reduct	No Reduct	No Reduct	3.34E-05	3.34E-05	No Reduct	No Reduct	No Reduct	No Reduct	3.34E-05	3.34E-05	No Reduct	No Reduct	No Reduct	No Reduct	3.33E-05
No Reduct	6.68E-06	6.68E-06	No Reduct	No Reduct	No Reduct	No Reduct	6.67E-06	6.67E-06	No Reduct	No Reduct	No Reduct	No Reduct	6.66E-06	6.66E-06	No Reduct	No Reduct	No Reduct	No Reduct	6.65E-06

22						2023						2024						2025	
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON
No Reduct	0.004166	0.004166	No Reduct	No Reduct	No Reduct	No Reduct	0.004172	0.004172	No Reduct	No Reduct	No Reduct	No Reduct	0.004166	0.004166	No Reduct	No Reduct	No Reduct	No Reduct	0.004172
No Reduct	0.019656	0.019656	No Reduct	No Reduct	No Reduct	No Reduct	0.019664	0.019664	No Reduct	No Reduct	No Reduct	No Reduct	0.019647	0.019647	No Reduct	No Reduct	No Reduct	No Reduct	0.019642
No Reduct	0.013723	0.013723	No Reduct	No Reduct	No Reduct	No Reduct	0.013715	0.013715	No Reduct	No Reduct	No Reduct	No Reduct	0.013706	0.013706	No Reduct	No Reduct	No Reduct	No Reduct	0.01371
No Reduct	0.002605	0.002605	No Reduct	No Reduct	No Reduct	No Reduct	0.002613	0.002613	No Reduct	No Reduct	No Reduct	No Reduct	0.002609	0.002609	No Reduct	No Reduct	No Reduct	No Reduct	0.002605
No Reduct	0.004242	0.004242	No Reduct	No Reduct	No Reduct	No Reduct	0.004236	0.004236	No Reduct	No Reduct	No Reduct	No Reduct	0.004253	0.004253	No Reduct	No Reduct	No Reduct	No Reduct	0.004246
No Reduct	0.000613	0.000613	No Reduct	No Reduct	No Reduct	No Reduct	0.000612	0.000612	No Reduct	No Reduct	No Reduct	No Reduct	0.000625	0.000625	No Reduct	No Reduct	No Reduct	No Reduct	0.000624
No Reduct	0.000374	0.000374	No Reduct	No Reduct	No Reduct	No Reduct	0.000374	0.000374	No Reduct	No Reduct	No Reduct	No Reduct	0.000373	0.000373	No Reduct	No Reduct	No Reduct	No Reduct	0.000379
No Reduct	0.000168	0.000168	No Reduct	No Reduct	No Reduct	No Reduct	0.000168	0.000168	No Reduct	No Reduct	No Reduct	No Reduct	0.000168	0.000168	No Reduct	No Reduct	No Reduct	No Reduct	0.000167
No Reduct	0.000247	0.000247	No Reduct	No Reduct	No Reduct	No Reduct	0.000246	0.000246	No Reduct	No Reduct	No Reduct	No Reduct	0.000246	0.000246	No Reduct	No Reduct	No Reduct	No Reduct	0.000246
No Reduct	0.000218	0.000218	No Reduct	No Reduct	No Reduct	No Reduct	0.000218	0.000218	No Reduct	No Reduct	No Reduct	No Reduct	0.000218	0.000218	No Reduct	No Reduct	No Reduct	No Reduct	0.000217
No Reduct	0.000172	0.000172	No Reduct	No Reduct	No Reduct	No Reduct	0.000172	0.000172	No Reduct	No Reduct	No Reduct	No Reduct	0.000171	0.000171	No Reduct	No Reduct	No Reduct	No Reduct	0.000171
No Reduct	0.000226	0.000226	No Reduct	No Reduct	No Reduct	No Reduct	0.000226	0.000226	No Reduct	No Reduct	No Reduct	No Reduct	0.000225	0.000225	No Reduct	No Reduct	No Reduct	No Reduct	0.000225
No Reduct	0.000198	0.000198	No Reduct	No Reduct	No Reduct	No Reduct	0.000197	0.000197	No Reduct	No Reduct	No Reduct	No Reduct	0.000197	0.000197	No Reduct	No Reduct	No Reduct	No Reduct	0.000197
No Reduct	5.47E-05	5.47E-05	No Reduct	No Reduct	No Reduct	No Reduct	5.46E-05	5.46E-05	No Reduct	No Reduct	No Reduct	No Reduct	5.45E-05	5.45E-05	No Reduct	No Reduct	No Reduct	No Reduct	5.45E-05
No Reduct	1.09E-05	1.09E-05	No Reduct	No Reduct	No Reduct	No Reduct	1.09E-05	1.09E-05	No Reduct	No Reduct	No Reduct	No Reduct	1.09E-05	1.09E-05	No Reduct	No Reduct	No Reduct	No Reduct	1.09E-05

2026						2027						2028					
PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
0.002554	No Reduct	No Reduct	No Reduct	No Reduct	0.00255	0.00255	No Reduct	No Reduct	No Reduct	No Reduct	0.002554	0.002554	No Reduct	No Reduct	No Reduct	No Reduct	0.00255	0.00255	No Reduct
0.012022	No Reduct	No Reduct	No Reduct	No Reduct	0.012019	0.012019	No Reduct	No Reduct	No Reduct	No Reduct	0.012008	0.012008	No Reduct	No Reduct	No Reduct	No Reduct	0.01202	0.01202	No Reduct
0.008391	No Reduct	No Reduct	No Reduct	No Reduct	0.008393	0.008393	No Reduct	No Reduct	No Reduct	No Reduct	0.008395	0.008395	No Reduct	No Reduct	No Reduct	No Reduct	0.008398	0.008398	No Reduct
0.001595	No Reduct	No Reduct	No Reduct	No Reduct	0.001599	0.001599	No Reduct	No Reduct	No Reduct	No Reduct	0.001597	0.001597	No Reduct	No Reduct	No Reduct	No Reduct	0.001595	0.001595	No Reduct
0.002599	No Reduct	No Reduct	No Reduct	No Reduct	0.002595	0.002595	No Reduct	No Reduct	No Reduct	No Reduct	0.002598	0.002598	No Reduct	No Reduct	No Reduct	No Reduct	0.002594	0.002594	No Reduct
0.000382	No Reduct	No Reduct	No Reduct	No Reduct	0.000381	0.000381	No Reduct	No Reduct	No Reduct	No Reduct	0.000381	0.000381	No Reduct	No Reduct	No Reduct	No Reduct	0.00038	0.00038	No Reduct
0.000232	No Reduct	No Reduct	No Reduct	No Reduct	0.000232	0.000232	No Reduct	No Reduct	No Reduct	No Reduct	0.000232	0.000232	No Reduct	No Reduct	No Reduct	No Reduct	0.000231	0.000231	No Reduct
0.000102	No Reduct	No Reduct	No Reduct	No Reduct	0.000102	0.000102	No Reduct	No Reduct	No Reduct	No Reduct	0.000102	0.000102	No Reduct	No Reduct	No Reduct	No Reduct	0.000102	0.000102	No Reduct
0.00015	No Reduct	No Reduct	No Reduct	No Reduct	0.00015	0.00015	No Reduct	No Reduct	No Reduct	No Reduct	0.000154	0.000154	No Reduct	No Reduct	No Reduct	No Reduct	0.000154	0.000154	No Reduct
0.000133	No Reduct	No Reduct	No Reduct	No Reduct	0.000133	0.000133	No Reduct	No Reduct	No Reduct	No Reduct	0.000133	0.000133	No Reduct	No Reduct	No Reduct	No Reduct	0.000132	0.000132	No Reduct
0.000105	No Reduct	No Reduct	No Reduct	No Reduct	0.000105	0.000105	No Reduct	No Reduct	No Reduct	No Reduct	0.000104	0.000104	No Reduct	No Reduct	No Reduct	No Reduct	0.000104	0.000104	No Reduct
0.000138	No Reduct	No Reduct	No Reduct	No Reduct	0.000138	0.000138	No Reduct	No Reduct	No Reduct	No Reduct	0.000137	0.000137	No Reduct	No Reduct	No Reduct	No Reduct	0.000137	0.000137	No Reduct
0.00012	No Reduct	No Reduct	No Reduct	No Reduct	0.000124	0.000124	No Reduct	No Reduct	No Reduct	No Reduct	0.000123	0.000123	No Reduct	No Reduct	No Reduct	No Reduct	0.000123	0.000123	No Reduct
3.33E-05	No Reduct	No Reduct	No Reduct	No Reduct	3.33E-05	3.33E-05	No Reduct	No Reduct	No Reduct	No Reduct	3.32E-05	3.32E-05	No Reduct	No Reduct	No Reduct	No Reduct	3.32E-05	3.32E-05	No Reduct
6.65E-06	No Reduct	No Reduct	No Reduct	No Reduct	6.64E-06	6.64E-06	No Reduct	No Reduct	No Reduct	No Reduct	6.63E-06	6.63E-06	No Reduct	No Reduct	No Reduct	No Reduct	6.62E-06	6.62E-06	No Reduct

2026						2027						2028					
PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
0.004172	No Reduct	No Reduct	No Reduct	No Reduct	0.004166	0.004166	No Reduct	No Reduct	No Reduct	No Reduct	0.004173	0.004173	No Reduct	No Reduct	No Reduct	No Reduct	0.004167	0.004167	No Reduct
0.019642	No Reduct	No Reduct	No Reduct	No Reduct	0.019637	0.019637	No Reduct	No Reduct	No Reduct	No Reduct	0.01962	0.01962	No Reduct	No Reduct	No Reduct	No Reduct	0.01964	0.01964	No Reduct
0.01371	No Reduct	No Reduct	No Reduct	No Reduct	0.013714	0.013714	No Reduct	No Reduct	No Reduct	No Reduct	0.013717	0.013717	No Reduct	No Reduct	No Reduct	No Reduct	0.013721	0.013721	No Reduct
0.002605	No Reduct	No Reduct	No Reduct	No Reduct	0.002613	0.002613	No Reduct	No Reduct	No Reduct	No Reduct	0.002609	0.002609	No Reduct	No Reduct	No Reduct	No Reduct	0.002606	0.002606	No Reduct
0.004246	No Reduct	No Reduct	No Reduct	No Reduct	0.00424	0.00424	No Reduct	No Reduct	No Reduct	No Reduct	0.004245	0.004245	No Reduct	No Reduct	No Reduct	No Reduct	0.004239	0.004239	No Reduct
0.000624	No Reduct	No Reduct	No Reduct	No Reduct	0.000623	0.000623	No Reduct	No Reduct	No Reduct	No Reduct	0.000622	0.000622	No Reduct	No Reduct	No Reduct	No Reduct	0.000621	0.000621	No Reduct
0.000379	No Reduct	No Reduct	No Reduct	No Reduct	0.000379	0.000379	No Reduct	No Reduct	No Reduct	No Reduct	0.000378	0.000378	No Reduct	No Reduct	No Reduct	No Reduct	0.000378	0.000378	No Reduct
0.000167	No Reduct	No Reduct	No Reduct	No Reduct	0.000167	0.000167	No Reduct	No Reduct	No Reduct	No Reduct	0.000167	0.000167	No Reduct	No Reduct	No Reduct	No Reduct	0.000167	0.000167	No Reduct
0.000246	No Reduct	No Reduct	No Reduct	No Reduct	0.000245	0.000245	No Reduct	No Reduct	No Reduct	No Reduct	0.000252	0.000252	No Reduct	No Reduct	No Reduct	No Reduct	0.000251	0.000251	No Reduct
0.000217	No Reduct	No Reduct	No Reduct	No Reduct	0.000217	0.000217	No Reduct	No Reduct	No Reduct	No Reduct	0.000217	0.000217	No Reduct	No Reduct	No Reduct	No Reduct	0.000216	0.000216	No Reduct
0.000171	No Reduct	No Reduct	No Reduct	No Reduct	0.000171	0.000171	No Reduct	No Reduct	No Reduct	No Reduct	0.000171	0.000171	No Reduct	No Reduct	No Reduct	No Reduct	0.00017	0.00017	No Reduct
0.000225	No Reduct	No Reduct	No Reduct	No Reduct	0.000225	0.000225	No Reduct	No Reduct	No Reduct	No Reduct	0.000224	0.000224	No Reduct	No Reduct	No Reduct	No Reduct	0.000224	0.000224	No Reduct
0.000197	No Reduct	No Reduct	No Reduct	No Reduct	0.000202	0.000202	No Reduct	No Reduct	No Reduct	No Reduct	0.000202	0.000202	No Reduct	No Reduct	No Reduct	No Reduct	0.000201	0.000201	No Reduct
5.45E-05	No Reduct	No Reduct	No Reduct	No Reduct	5.44E-05	5.44E-05	No Reduct	No Reduct	No Reduct	No Reduct	5.43E-05	5.43E-05	No Reduct	No Reduct	No Reduct	No Reduct	5.42E-05	5.42E-05	No Reduct
1.09E-05	No Reduct	No Reduct	No Reduct	No Reduct	1.08E-05	1.08E-05	No Reduct	No Reduct	No Reduct	No Reduct	1.08E-05	1.08E-05	No Reduct	No Reduct	No Reduct	No Reduct	1.08E-05	1.08E-05	No Reduct

2029						2030						2031						20
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON
No Reduct	No Reduct	No Reduct	0.002554	0.002554	No Reduct	No Reduct	No Reduct	No Reduct	0.00255	0.00255	No Reduct	No Reduct	No Reduct	No Reduct	0.002547	0.002547	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.012018	0.012018	No Reduct	No Reduct	No Reduct	No Reduct	0.012022	0.012022	No Reduct	No Reduct	No Reduct	No Reduct	0.012027	0.012027	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.0084	0.0084	No Reduct	No Reduct	No Reduct	No Reduct	0.008395	0.008395	No Reduct	No Reduct	No Reduct	No Reduct	0.008397	0.008397	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.001592	0.001592	No Reduct	No Reduct	No Reduct	No Reduct	0.001597	0.001597	No Reduct	No Reduct	No Reduct	No Reduct	0.001595	0.001595	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.002598	0.002598	No Reduct	No Reduct	No Reduct	No Reduct	0.002601	0.002601	No Reduct	No Reduct	No Reduct	No Reduct	0.002597	0.002597	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.00038	0.00038	No Reduct	No Reduct	No Reduct	No Reduct	0.000379	0.000379	No Reduct	No Reduct	No Reduct	No Reduct	0.000378	0.000378	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.000231	0.000231	No Reduct	No Reduct	No Reduct	No Reduct	0.000231	0.000231	No Reduct	No Reduct	No Reduct	No Reduct	0.00023	0.00023	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.000102	0.000102	No Reduct	No Reduct	No Reduct	No Reduct	0.000102	0.000102	No Reduct	No Reduct	No Reduct	No Reduct	0.000102	0.000102	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.000154	0.000154	No Reduct	No Reduct	No Reduct	No Reduct	0.000153	0.000153	No Reduct	No Reduct	No Reduct	No Reduct	0.000153	0.000153	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.000132	0.000132	No Reduct	No Reduct	No Reduct	No Reduct	0.000132	0.000132	No Reduct	No Reduct	No Reduct	No Reduct	0.000132	0.000132	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.000104	0.000104	No Reduct	No Reduct	No Reduct	No Reduct	0.000104	0.000104	No Reduct	No Reduct	No Reduct	No Reduct	0.000107	0.000107	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.000137	0.000137	No Reduct	No Reduct	No Reduct	No Reduct	0.000137	0.000137	No Reduct	No Reduct	No Reduct	No Reduct	0.000136	0.000136	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.000123	0.000123	No Reduct	No Reduct	No Reduct	No Reduct	0.000123	0.000123	No Reduct	No Reduct	No Reduct	No Reduct	0.000123	0.000123	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	3.31E-05	3.31E-05	No Reduct	No Reduct	No Reduct	No Reduct	3.31E-05	3.31E-05	No Reduct	No Reduct	No Reduct	No Reduct	3.3E-05	3.3E-05	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	6.61E-06	6.61E-06	No Reduct	No Reduct	No Reduct	No Reduct	6.6E-06	6.6E-06	No Reduct	No Reduct	No Reduct	No Reduct	6.59E-06	6.59E-06	No Reduct	No Reduct	No Reduct

2029						2030						2031						20
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON
No Reduct	No Reduct	No Reduct	0.004173	0.004173	No Reduct	No Reduct	No Reduct	No Reduct	0.004167	0.004167	No Reduct	No Reduct	No Reduct	No Reduct	0.004161	0.004161	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.019635	0.019635	No Reduct	No Reduct	No Reduct	No Reduct	0.019643	0.019643	No Reduct	No Reduct	No Reduct	No Reduct	0.01965	0.01965	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.013724	0.013724	No Reduct	No Reduct	No Reduct	No Reduct	0.013716	0.013716	No Reduct	No Reduct	No Reduct	No Reduct	0.013719	0.013719	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.002602	0.002602	No Reduct	No Reduct	No Reduct	No Reduct	0.00261	0.00261	No Reduct	No Reduct	No Reduct	No Reduct	0.002606	0.002606	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.004244	0.004244	No Reduct	No Reduct	No Reduct	No Reduct	0.004249	0.004249	No Reduct	No Reduct	No Reduct	No Reduct	0.004243	0.004243	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.00062	0.00062	No Reduct	No Reduct	No Reduct	No Reduct	0.000619	0.000619	No Reduct	No Reduct	No Reduct	No Reduct	0.000618	0.000618	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.000377	0.000377	No Reduct	No Reduct	No Reduct	No Reduct	0.000377	0.000377	No Reduct	No Reduct	No Reduct	No Reduct	0.000376	0.000376	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.000166	0.000166	No Reduct	No Reduct	No Reduct	No Reduct	0.000166	0.000166	No Reduct	No Reduct	No Reduct	No Reduct	0.000166	0.000166	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.000251	0.000251	No Reduct	No Reduct	No Reduct	No Reduct	0.000251	0.000251	No Reduct	No Reduct	No Reduct	No Reduct	0.00025	0.00025	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.000216	0.000216	No Reduct	No Reduct	No Reduct	No Reduct	0.000216	0.000216	No Reduct	No Reduct	No Reduct	No Reduct	0.000215	0.000215	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.00017	0.00017	No Reduct	No Reduct	No Reduct	No Reduct	0.00017	0.00017	No Reduct	No Reduct	No Reduct	No Reduct	0.000175	0.000175	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.000224	0.000224	No Reduct	No Reduct	No Reduct	No Reduct	0.000223	0.000223	No Reduct	No Reduct	No Reduct	No Reduct	0.000223	0.000223	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.000201	0.000201	No Reduct	No Reduct	No Reduct	No Reduct	0.000201	0.000201	No Reduct	No Reduct	No Reduct	No Reduct	0.0002	0.0002	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	5.41E-05	5.41E-05	No Reduct	No Reduct	No Reduct	No Reduct	5.41E-05	5.41E-05	No Reduct	No Reduct	No Reduct	No Reduct	5.4E-05	5.4E-05	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	1.08E-05	1.08E-05	No Reduct	No Reduct	No Reduct	No Reduct	1.08E-05	1.08E-05	No Reduct	No Reduct	No Reduct	No Reduct	1.08E-05	1.08E-05	No Reduct	No Reduct	No Reduct

32						2033						2034						2035	
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON
No Reduct	0.002558	0.002558	No Reduct	No Reduct	No Reduct	No Reduct	0.002555	0.002555	No Reduct	No Reduct	No Reduct	No Reduct	0.002559	0.002559	No Reduct	No Reduct	No Reduct	No Reduct	0.002555
No Reduct	0.012016	0.012016	No Reduct	No Reduct	No Reduct	No Reduct	0.012002	0.012002	No Reduct	No Reduct	No Reduct	No Reduct	0.012006	0.012006	No Reduct	No Reduct	No Reduct	No Reduct	0.012011
No Reduct	0.008399	0.008399	No Reduct	No Reduct	No Reduct	No Reduct	0.008403	0.008403	No Reduct	No Reduct	No Reduct	No Reduct	0.008405	0.008405	No Reduct	No Reduct	No Reduct	No Reduct	0.008407
No Reduct	0.0016	0.0016	No Reduct	No Reduct	No Reduct	No Reduct	0.001598	0.001598	No Reduct	No Reduct	No Reduct	No Reduct	0.001595	0.001595	No Reduct	No Reduct	No Reduct	No Reduct	0.001593
No Reduct	0.002593	0.002593	No Reduct	No Reduct	No Reduct	No Reduct	0.002597	0.002597	No Reduct	No Reduct	No Reduct	No Reduct	0.002593	0.002593	No Reduct	No Reduct	No Reduct	No Reduct	0.002596
No Reduct	0.000378	0.000378	No Reduct	No Reduct	No Reduct	No Reduct	0.000377	0.000377	No Reduct	No Reduct	No Reduct	No Reduct	0.000377	0.000377	No Reduct	No Reduct	No Reduct	No Reduct	0.000376
No Reduct	0.00023	0.00023	No Reduct	No Reduct	No Reduct	No Reduct	0.00023	0.00023	No Reduct	No Reduct	No Reduct	No Reduct	0.000229	0.000229	No Reduct	No Reduct	No Reduct	No Reduct	0.000229
No Reduct	0.000101	0.000101	No Reduct	No Reduct	No Reduct	No Reduct	0.000105	0.000105	No Reduct	No Reduct	No Reduct	No Reduct	0.000105	0.000105	No Reduct	No Reduct	No Reduct	No Reduct	0.000105
No Reduct	0.000153	0.000153	No Reduct	No Reduct	No Reduct	No Reduct	0.000153	0.000153	No Reduct	No Reduct	No Reduct	No Reduct	0.000152	0.000152	No Reduct	No Reduct	No Reduct	No Reduct	0.000152
No Reduct	0.000132	0.000132	No Reduct	No Reduct	No Reduct	No Reduct	0.000131	0.000131	No Reduct	No Reduct	No Reduct	No Reduct	0.000131	0.000131	No Reduct	No Reduct	No Reduct	No Reduct	0.000131
No Reduct	0.000107	0.000107	No Reduct	No Reduct	No Reduct	No Reduct	0.000107	0.000107	No Reduct	No Reduct	No Reduct	No Reduct	0.000107	0.000107	No Reduct	No Reduct	No Reduct	No Reduct	0.000107
No Reduct	0.000136	0.000136	No Reduct	No Reduct	No Reduct	No Reduct	0.000139	0.000139	No Reduct	No Reduct	No Reduct	No Reduct	0.000139	0.000139	No Reduct	No Reduct	No Reduct	No Reduct	0.000139
No Reduct	0.000122	0.000122	No Reduct	No Reduct	No Reduct	No Reduct	0.000122	0.000122	No Reduct	No Reduct	No Reduct	No Reduct	0.000122	0.000122	No Reduct	No Reduct	No Reduct	No Reduct	0.000122
No Reduct	3.3E-05	3.3E-05	No Reduct	No Reduct	No Reduct	No Reduct	3.29E-05	3.29E-05	No Reduct	No Reduct	No Reduct	No Reduct	3.29E-05	3.29E-05	No Reduct	No Reduct	No Reduct	No Reduct	3.29E-05
No Reduct	6.58E-06	6.58E-06	No Reduct	No Reduct	No Reduct	No Reduct	6.57E-06	6.57E-06	No Reduct	No Reduct	No Reduct	No Reduct	6.56E-06	6.56E-06	No Reduct	No Reduct	No Reduct	No Reduct	6.55E-06

32						2033						2034						2035	
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON
No Reduct	0.00418	0.00418	No Reduct	No Reduct	No Reduct	No Reduct	0.004175	0.004175	No Reduct	No Reduct	No Reduct	No Reduct	0.004181	0.004181	No Reduct	No Reduct	No Reduct	No Reduct	0.004175
No Reduct	0.019633	0.019633	No Reduct	No Reduct	No Reduct	No Reduct	0.019609	0.019609	No Reduct	No Reduct	No Reduct	No Reduct	0.019617	0.019617	No Reduct	No Reduct	No Reduct	No Reduct	0.019624
No Reduct	0.013723	0.013723	No Reduct	No Reduct	No Reduct	No Reduct	0.013729	0.013729	No Reduct	No Reduct	No Reduct	No Reduct	0.013733	0.013733	No Reduct	No Reduct	No Reduct	No Reduct	0.013736
No Reduct	0.002614	0.002614	No Reduct	No Reduct	No Reduct	No Reduct	0.00261	0.00261	No Reduct	No Reduct	No Reduct	No Reduct	0.002606	0.002606	No Reduct	No Reduct	No Reduct	No Reduct	0.002603
No Reduct	0.004237	0.004237	No Reduct	No Reduct	No Reduct	No Reduct	0.004243	0.004243	No Reduct	No Reduct	No Reduct	No Reduct	0.004237	0.004237	No Reduct	No Reduct	No Reduct	No Reduct	0.004242
No Reduct	0.000617	0.000617	No Reduct	No Reduct	No Reduct	No Reduct	0.000617	0.000617	No Reduct	No Reduct	No Reduct	No Reduct	0.000616	0.000616	No Reduct	No Reduct	No Reduct	No Reduct	0.000615
No Reduct	0.000375	0.000375	No Reduct	No Reduct	No Reduct	No Reduct	0.000375	0.000375	No Reduct	No Reduct	No Reduct	No Reduct	0.000374	0.000374	No Reduct	No Reduct	No Reduct	No Reduct	0.000374
No Reduct	0.000166	0.000166	No Reduct	No Reduct	No Reduct	No Reduct	0.000172	0.000172	No Reduct	No Reduct	No Reduct	No Reduct	0.000172	0.000172	No Reduct	No Reduct	No Reduct	No Reduct	0.000172
No Reduct	0.00025	0.00025	No Reduct	No Reduct	No Reduct	No Reduct	0.000249	0.000249	No Reduct	No Reduct	No Reduct	No Reduct	0.000249	0.000249	No Reduct	No Reduct	No Reduct	No Reduct	0.000249
No Reduct	0.000215	0.000215	No Reduct	No Reduct	No Reduct	No Reduct	0.000215	0.000215	No Reduct	No Reduct	No Reduct	No Reduct	0.000214	0.000214	No Reduct	No Reduct	No Reduct	No Reduct	0.000214
No Reduct	0.000175	0.000175	No Reduct	No Reduct	No Reduct	No Reduct	0.000175	0.000175	No Reduct	No Reduct	No Reduct	No Reduct	0.000174	0.000174	No Reduct	No Reduct	No Reduct	No Reduct	0.000174
No Reduct	0.000223	0.000223	No Reduct	No Reduct	No Reduct	No Reduct	0.000228	0.000228	No Reduct	No Reduct	No Reduct	No Reduct	0.000228	0.000228	No Reduct	No Reduct	No Reduct	No Reduct	0.000227
No Reduct	0.0002	0.0002	No Reduct	No Reduct	No Reduct	No Reduct	0.0002	0.0002	No Reduct	No Reduct	No Reduct	No Reduct	0.0002	0.0002	No Reduct	No Reduct	No Reduct	No Reduct	0.000199
No Reduct	5.39E-05	5.39E-05	No Reduct	No Reduct	No Reduct	No Reduct	5.38E-05	5.38E-05	No Reduct	No Reduct	No Reduct	No Reduct	5.38E-05	5.38E-05	No Reduct	No Reduct	No Reduct	No Reduct	5.37E-05
No Reduct	1.08E-05	1.08E-05	No Reduct	No Reduct	No Reduct	No Reduct	1.07E-05	1.07E-05	No Reduct	No Reduct	No Reduct	No Reduct	1.07E-05	1.07E-05	No Reduct	No Reduct	No Reduct	No Reduct	1.07E-05

PM25TON
0.002555
0.012011
0.008407
0.001593
0.002596
0.000376
0.000229
0.000105
0.000152
0.000131
0.000107
0.000139
0.000122
3.29E-05
6.55E-06

PM25TON
0.004175
0.019624
0.013736
0.002603
0.004242
0.000615
0.000374
0.000172
0.000249
0.000214
0.000174
0.000227
0.000199
5.37E-05
1.07E-05

Final % Reduction

		NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.28%	0.28%
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.26%	1.26%
	3000	No Reduct	No Reduct	No Reduct	No Reduct	0.81%	0.81%
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.15%	0.15%
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.25%	0.25%
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.03%	0.03%
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%
2012	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.20%	1.20%
	3000	No Reduct	No Reduct	No Reduct	No Reduct	0.84%	0.84%
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.16%	0.16%
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%
	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.25%	0.25%
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.20%	1.20%
	3000	No Reduct	No Reduct	No Reduct	No Reduct	0.84%	0.84%
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.16%	0.16%
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%
2016	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.25%	0.25%
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.20%	1.20%

Drilling Emissions in Lbs/Well Drilled

CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB
2012	001000	Construction	C.1 Well Drilling	889.3949598	52.74499254
2012	002000	Construction	C.1 Well Drilling	1165.785878	68.6565032
2012	003000	Construction	C.1 Well Drilling	1442.176795	84.56801385
2012	004000	Construction	C.1 Well Drilling	1718.567713	100.4795245
2012	005000	Construction	C.1 Well Drilling	2271.349549	132.3025458
2012	006000	Construction	C.1 Well Drilling	5143.498427	247.3684469
2012	007000	Construction	C.1 Well Drilling	6160.153671	295.8400441
2012	008000	Construction	C.1 Well Drilling	7685.136537	368.54744
2012	009000	Construction	C.1 Well Drilling	9210.119402	441.2548359
2012	010000	Construction	C.1 Well Drilling	11751.75751	562.433829
2012	011000	Construction	C.1 Well Drilling	17376.84905	812.3437041
2012	012000	Construction	C.1 Well Drilling	21706.00576	1014.177015
2012	013000	Construction	C.1 Well Drilling	26653.61343	1244.843656
2012	014000	Construction	C.1 Well Drilling	32838.12301	1533.176957
2012	015000	Construction	C.1 Well Drilling	40259.53452	1879.176919
2015	002000	Construction	C.1 Well Drilling	1051.798768	63.53247208
2015	003000	Construction	C.1 Well Drilling	1301.014	78.27260212
2015	004000	Construction	C.1 Well Drilling	1550.229233	93.01273216
2015	005000	Construction	C.1 Well Drilling	2048.659698	122.4929922
2015	006000	Construction	C.1 Well Drilling	5123.472228	266.380754
2015	007000	Construction	C.1 Well Drilling	6137.179107	318.7425144
2015	008000	Construction	C.1 Well Drilling	7657.739424	397.285155
2015	009000	Construction	C.1 Well Drilling	9178.299741	475.8277956
2015	010000	Construction	C.1 Well Drilling	11712.56694	606.7321966
2015	011000	Construction	C.1 Well Drilling	17402.30073	885.5183604
2015	012000	Construction	C.1 Well Drilling	21739.14145	1105.754963
2015	013000	Construction	C.1 Well Drilling	26695.53085	1357.453936
2015	014000	Construction	C.1 Well Drilling	32891.01759	1672.077654
2015	015000	Construction	C.1 Well Drilling	40325.60169	2049.626115
2016	001000	Construction	C.1 Well Drilling	763.3389208	46.54759315
2016	002000	Construction	C.1 Well Drilling	1000.28455	60.61695792
2016	003000	Construction	C.1 Well Drilling	1237.23018	74.68632269
2016	004000	Construction	C.1 Well Drilling	1474.175809	88.75568746
2016	005000	Construction	C.1 Well Drilling	1948.067068	116.894417
2016	006000	Construction	C.1 Well Drilling	5042.783384	260.999804
2016	007000	Construction	C.1 Well Drilling	6040.839654	312.331865
2016	008000	Construction	C.1 Well Drilling	7537.924059	389.3299566
2016	009000	Construction	C.1 Well Drilling	9035.008464	466.3280481
2016	010000	Construction	C.1 Well Drilling	11530.14914	594.6582007
2016	011000	Construction	C.1 Well Drilling	17169.76603	870.1619411
2016	012000	Construction	C.1 Well Drilling	21449.08203	1086.617552
2016	013000	Construction	C.1 Well Drilling	26339.72888	1333.995392
2016	014000	Construction	C.1 Well Drilling	32453.03745	1643.217693
2016	015000	Construction	C.1 Well Drilling	39789.00774	2014.284454
2017	001000	Construction	C.1 Well Drilling	719.1407087	43.99990232
2017	002000	Construction	C.1 Well Drilling	942.654357	57.33159172

Amount of Drilling Emissions Reduced in Changing 75 hp Engines to Tier 4i in Lbs/Well Drilled

COLB	SOXLB	PM10LB	PM25LB	CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB	COLB	SOXLB
650.4930445	0.766405804	40.20745903	36.99086231	2012	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	52.13380846	47.96310378	2012	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	64.06015789	58.93534526	2012	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	75.98650732	69.90758673	2012	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	99.83920617	91.85206968	2012	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	182.7774876	168.1552886	2012	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	218.447303	200.9715188	2012	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	271.9520261	250.195864	2012	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	325.4567491	299.4202092	2012	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	414.6312876	381.4607846	2012	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	592.2478825	544.8680519	2012	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	739.2027504	680.0665304	2012	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	907.1511709	834.5790772	2012	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	1117.086697	1027.719761	2012	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	1369.009327	1259.488581	2012	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	46.72603737	42.98795438	2015	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	57.40095398	52.80887767	2015	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	68.0758706	62.62980095	2015	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	89.42570384	82.27164753	2015	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	183.9929422	169.2735068	2015	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	219.9862565	202.387356	2015	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	273.9762279	252.0581296	2015	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	327.9661993	301.7289033	2015	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	417.9494849	384.5135261	2015	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	602.454831	554.2584445	2015	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	752.061946	691.8969903	2015	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	923.041506	849.1981855	2015	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	1136.765956	1045.82468	2015	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	1393.235296	1281.776472	2015	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	33.77182493	31.07007894	2016	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	43.76261426	40.26160512	2016	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	53.7534036	49.45313131	2016	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	63.74419293	58.64465749	2016	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	83.72577159	77.02770987	2016	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	178.7846588	164.4818861	2016	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	213.7816992	196.6791633	2016	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	266.2772598	244.975079	2016	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	318.7728203	293.2709947	2016	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	406.2654213	373.7641876	2016	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	587.6133242	540.6042583	2016	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	733.5667911	674.8814478	2016	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	900.3707532	828.3410929	2016	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	1108.875706	1020.165649	2016	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	1359.081649	1250.355117	2016	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	31.39998534	28.88798652	2017	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	40.71607697	37.45879081	2017	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction

		Wells Drilled Each Year	Amount of Drilling Emissions Reduced in Changing 75 hp Engines to Tier 4i in tons/year					
PM10LB	PM25LB		CALYEAR	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB
0.113269408	0.10420787	305	2012	No Reduction	No Reduction	No Reduction	No Reduction	0.01727358	0.0158917
0.656666342	0.60413298	1414	2012	No Reduction	No Reduction	No Reduction	No Reduction	0.4642631	0.42712202
0.51840347	0.476931438	930	2012	No Reduction	No Reduction	No Reduction	No Reduction	0.24105761	0.22177312
0.113176326	0.104122183	174	2012	No Reduction	No Reduction	No Reduction	No Reduction	0.00984634	0.00905863
0.250938578	0.230863491	300	2012	No Reduction	No Reduction	No Reduction	No Reduction	0.03764079	0.03462952
0.062766534	0.057745224	69	2012	No Reduction	No Reduction	No Reduction	No Reduction	0.00216545	0.00199221
0.047283769	0.043501069	44	2012	No Reduction	No Reduction	No Reduction	No Reduction	0.00104024	0.00095702
0.030408303	0.027975635	23	2012	No Reduction	No Reduction	No Reduction	No Reduction	0.0003497	0.00032172
0.051796047	0.047652361	33.00	2012	No Reduction	No Reduction	No Reduction	No Reduction	0.00085463	0.00078626
0.04162303	0.038293192	21	2012	No Reduction	No Reduction	No Reduction	No Reduction	0.00043704	0.00040208
0.059331033	0.054584555	25	2012	No Reduction	No Reduction	No Reduction	No Reduction	0.00074164	0.00068231
0.079531859	0.07316931	27	2012	No Reduction	No Reduction	No Reduction	No Reduction	0.00107368	0.00098779
0.071995611	0.066235964	20	2012	No Reduction	No Reduction	No Reduction	No Reduction	0.00071996	0.00066236
0.026504874	0.024384484	6	2012	No Reduction	No Reduction	No Reduction	No Reduction	7.9515E-05	7.3153E-05
0.00539872	0.004966822	1	2012	No Reduction	No Reduction	No Reduction	No Reduction	2.6994E-06	2.4834E-06
0.560684485	0.51582968	1575	2015	No Reduction	No Reduction	No Reduction	No Reduction	0.44153903	0.40621587
0.481868226	0.443318996	1128	2015	No Reduction	No Reduction	No Reduction	No Reduction	0.27177368	0.25003191
0.108648239	0.099956344	218	2015	No Reduction	No Reduction	No Reduction	No Reduction	0.01184266	0.01089524
0.232604003	0.213995682	363	2015	No Reduction	No Reduction	No Reduction	No Reduction	0.04221763	0.03884022
0.06970287	0.064126654	89	2015	No Reduction	No Reduction	No Reduction	No Reduction	0.00310178	0.00285364
0.050906601	0.046834074	55	2015	No Reduction	No Reduction	No Reduction	No Reduction	0.00139993	0.00128794
0.028479219	0.026200878	25	2015	No Reduction	No Reduction	No Reduction	No Reduction	0.00035599	0.00032751
0.05005222	0.04604804	37.00	2015	No Reduction	No Reduction	No Reduction	No Reduction	0.00092597	0.00085189
0.056388845	0.051877743	33.00	2015	No Reduction	No Reduction	No Reduction	No Reduction	0.00093042	0.00085598
0.064007034	0.058886476	31	2015	No Reduction	No Reduction	No Reduction	No Reduction	0.00099211	0.00091274
0.105088308	0.096681243	41	2015	No Reduction	No Reduction	No Reduction	No Reduction	0.00215431	0.00198197
0.112777698	0.103755485	36	2015	No Reduction	No Reduction	No Reduction	No Reduction	0.00203	0.0018676
0.038446942	0.035371187	10	2015	No Reduction	No Reduction	No Reduction	No Reduction	0.00019223	0.00017686
0.009398142	0.00864629	2	2015	No Reduction	No Reduction	No Reduction	No Reduction	9.3981E-06	8.6463E-06
0.086085212	0.079198406	323	2016	No Reduction	No Reduction	No Reduction	No Reduction	0.01390276	0.01279054
0.525262242	0.483241219	1577	2016	No Reduction	No Reduction	No Reduction	No Reduction	0.41416928	0.3810357
0.451592474	0.415465289	1130	2016	No Reduction	No Reduction	No Reduction	No Reduction	0.25514975	0.23473789
0.101632432	0.093501804	218	2016	No Reduction	No Reduction	No Reduction	No Reduction	0.01107794	0.0101917
0.217558562	0.200153876	363	2016	No Reduction	No Reduction	No Reduction	No Reduction	0.03948688	0.03632793
0.067661551	0.06224864	89	2016	No Reduction	No Reduction	No Reduction	No Reduction	0.00301094	0.00277006
0.049420971	0.045467295	55	2016	No Reduction	No Reduction	No Reduction	No Reduction	0.00135908	0.00125035
0.027651041	0.025438954	25	2016	No Reduction	No Reduction	No Reduction	No Reduction	0.00034564	0.00031799
0.048600165	0.044712149	37	2016	No Reduction	No Reduction	No Reduction	No Reduction	0.0008991	0.00082717
0.05475723	0.050376657	33	2016	No Reduction	No Reduction	No Reduction	No Reduction	0.00090349	0.00083121
0.062367316	0.057377935	31	2016	No Reduction	No Reduction	No Reduction	No Reduction	0.00096669	0.00088936
0.102400635	0.094208584	41	2016	No Reduction	No Reduction	No Reduction	No Reduction	0.00209921	0.00193128
0.109896935	0.101105182	36	2016	No Reduction	No Reduction	No Reduction	No Reduction	0.00197814	0.00181989
0.037465869	0.0344686	10	2016	No Reduction	No Reduction	No Reduction	No Reduction	0.00018733	0.00017234
0.009158519	0.008425837	2	2016	No Reduction	No Reduction	No Reduction	No Reduction	9.1585E-06	8.4258E-06
0.079918551	0.073525077	323	2017	No Reduction	No Reduction	No Reduction	No Reduction	0.01290685	0.0118743
0.489196295	0.450060551	1581	2017	No Reduction	No Reduction	No Reduction	No Reduction	0.38670967	0.35577287

VERA Emissions (tons/year)	Wells Drilled Each Year	VERA Emissions (tons/year-well)	VERA Fee Reduction	Year
0.017273585	305			
0.464263103	1414			
0.241057614	930			
0.00984634	174			
0.037640787	300			
0.002165445	69			
0.001040243	44			
0.000349695	23			
0.000854635	33.00			
0.000437042	21			
0.000741638	25			
0.00107368	27			
0.000719956	20			
7.95146E-05	6			
2.69936E-06	1			
0.441539032	1575	0.000280342	1.955106799	2015
0.27177368	1128	0.000240934	1.680274505	2015
0.011842658	218	5.43241E-05	0.378856411	2015
0.042217627	363	0.000116302	0.811090158	2015
0.003101778	89	3.48514E-05	0.243053908	2015
0.001399932	55	2.54533E-05	0.177511317	2015
0.00035599	25	1.42396E-05	0.099307037	2015
0.000925966	37.00	2.50261E-05	0.17453209	2015
0.000930416	33.00	2.81944E-05	0.196627902	2015
0.000992109	31	3.20035E-05	0.223192528	2015
0.00215431	41	5.25442E-05	0.366442929	2015
0.002029999	36	5.63888E-05	0.393255834	2015
0.000192235	10	1.92235E-05	0.134064486	2015
9.39814E-06	2	4.69907E-06	0.032771319	2015
0.013902762	323	4.30426E-05	0.300179133	2016
0.414169278	1577	0.000262631	1.831589437	2016
0.255149748	1130	0.000225796	1.574702957	2016
0.011077935	218	5.08162E-05	0.354392291	2016
0.039486879	363	0.000108779	0.758626705	2016
0.003010939	89	3.38308E-05	0.235935828	2016
0.001359077	55	2.47105E-05	0.172330927	2016
0.000345638	25	1.38255E-05	0.096419178	2016
0.000899103	37	2.43001E-05	0.169468775	2016
0.000903494	33	2.73786E-05	0.190938459	2016
0.000966693	31	3.11837E-05	0.217474829	2016
0.002099213	41	5.12003E-05	0.357071014	2016
0.001978145	36	5.49485E-05	0.383210612	2016
0.000187329	10	1.87329E-05	0.130643486	2016
9.15852E-06	2	4.57926E-06	0.031935757	2016
0.012906846	323	3.99593E-05	0.278675986	2017
0.386709671	1581	0.000244598	1.705827482	2017

Amount of Construction - Well Drilling Emissions Reduced in Changing ≤ 75 hp Engines to Tier 4i							
Year	NOX	ROG	CO	SOX	PM10	PM25	VERA Fee Reduction Per Well
2015	0.00	0.00	0.00	0.00	0.78	0.72	$6.87
2016	0.00	0.00	0.00	0.00	0.75	0.69	$6.80
2017	0.00	0.00	0.00	0.00	0.70	0.64	$6.43
2018	0.00	0.00	0.00	0.00	0.58	0.53	$5.53
2019	0.00	0.00	0.00	0.00	0.52	0.48	$4.73
2020	0.00	0.00	0.00	0.00	0.44	0.41	$4.15
2021	0.00	0.00	0.00	0.00	0.41	0.38	$3.91
2022	0.00	0.00	0.00	0.00	0.31	0.28	$3.20
2023	0.00	0.00	0.00	0.00	0.27	0.25	$2.93
2024	0.00	0.00	0.00	0.00	0.24	0.22	$2.72
2025	0.00	0.00	0.00	0.00	0.22	0.20	$2.54
2026	0.00	0.00	0.00	0.00	0.20	0.18	$1.96
2027	0.00	0.00	0.00	0.00	0.18	0.17	$1.84
2028	0.00	0.00	0.00	0.00	0.17	0.16	$1.74
2029	0.00	0.00	0.00	0.00	0.16	0.15	$1.69
2031	0.00	0.00	0.00	0.00	0.16	0.15	$1.69
2032	0.00	0.00	0.00	0.00	0.16	0.15	$1.69
2033	0.00	0.00	0.00	0.00	0.16	0.15	$1.70
2034	0.00	0.00	0.00	0.00	0.17	0.15	$1.70
2035	0.00	0.00	0.00	0.00	0.17	0.15	$1.70
						Average:	**$3.28**

	3000	No Reduct	No Reduct	No Reduct	No Reduct	0.84%	0.84%	2017	003000	Construction	C.1 Well Drilling	1166.168005	70.66328112
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.16%	0.16%	2017	004000	Construction	C.1 Well Drilling	1389.681653	83.99497053
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2017	005000	Construction	C.1 Well Drilling	1836.70895	110.6583493
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2017	006000	Construction	C.1 Well Drilling	4995.849988	257.5406623
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2017	007000	Construction	C.1 Well Drilling	5985.300033	308.2478279
2017	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2017	008000	Construction	C.1 Well Drilling	7469.4751	384.3085764
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2017	009000	Construction	C.1 Well Drilling	8953.650168	460.3693248
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2017	010000	Construction	C.1 Well Drilling	11427.27528	587.1372389
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2017	011000	Construction	C.1 Well Drilling	17043.46992	860.972981
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2017	012000	Construction	C.1 Well Drilling	21292.18745	1075.215018
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2017	013000	Construction	C.1 Well Drilling	26147.86464	1320.06306
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2017	014000	Construction	C.1 Well Drilling	32217.46112	1626.123112
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2017	015000	Construction	C.1 Well Drilling	39500.9769	1993.395175
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2018	001000	Construction	C.1 Well Drilling	618.2650511	38.07086535
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.20%	1.20%	2018	002000	Construction	C.1 Well Drilling	810.1939548	49.62555854
	3000	No Reduct	No Reduct	No Reduct	No Reduct	0.84%	0.84%	2018	003000	Construction	C.1 Well Drilling	1002.122858	61.18025173
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.16%	0.16%	2018	004000	Construction	C.1 Well Drilling	1194.051762	72.73494492
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2018	005000	Construction	C.1 Well Drilling	1577.909569	95.84433131
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2018	006000	Construction	C.1 Well Drilling	4823.38249	244.8783498
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2018	007000	Construction	C.1 Well Drilling	5779.56332	293.1726627
2018	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2018	008000	Construction	C.1 Well Drilling	7213.834565	365.6141319
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2018	009000	Construction	C.1 Well Drilling	8648.10581	438.0556011
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2018	010000	Construction	C.1 Well Drilling	11038.55788	558.7913832
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2018	011000	Construction	C.1 Well Drilling	16557.08617	825.6487898
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2018	012000	Construction	C.1 Well Drilling	20685.73813	1031.209291
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2018	013000	Construction	C.1 Well Drilling	25404.19751	1266.135578
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2018	014000	Construction	C.1 Well Drilling	31302.27173	1559.793436
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2018	015000	Construction	C.1 Well Drilling	38379.9608	1912.182867
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2019	001000	Construction	C.1 Well Drilling	569.7563561	35.5442175
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.20%	1.20%	2019	002000	Construction	C.1 Well Drilling	746.8582133	46.37616294
	3000	No Reduct	No Reduct	No Reduct	No Reduct	0.84%	0.84%	2019	003000	Construction	C.1 Well Drilling	923.9600705	57.20810837
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.16%	0.16%	2019	004000	Construction	C.1 Well Drilling	1101.061928	68.04005381
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2019	005000	Construction	C.1 Well Drilling	1455.265642	89.70394468
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2019	006000	Construction	C.1 Well Drilling	4096.004555	186.2976253
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2019	007000	Construction	C.1 Well Drilling	4907.51531	222.9474742
2019	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2019	008000	Construction	C.1 Well Drilling	6124.781441	277.9222474
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2019	009000	Construction	C.1 Well Drilling	7342.047572	332.8970206
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2019	010000	Construction	C.1 Well Drilling	9370.824458	424.5216427
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2019	011000	Construction	C.1 Well Drilling	14035.91596	622.1002856
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2019	012000	Construction	C.1 Well Drilling	17535.28226	776.8632618
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2019	013000	Construction	C.1 Well Drilling	21534.55802	953.7352345
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2019	014000	Construction	C.1 Well Drilling	26533.65273	1174.8252
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2019	015000	Construction	C.1 Well Drilling	32532.56637	1440.133159
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2020	001000	Construction	C.1 Well Drilling	473.7173815	31.85752448
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.20%	1.20%	2020	002000	Construction	C.1 Well Drilling	619.9858554	41.56484144
	3000	No Reduct	No Reduct	No Reduct	No Reduct	0.84%	0.84%	2020	003000	Construction	C.1 Well Drilling	766.2543294	51.27215841
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.16%	0.16%	2020	004000	Construction	C.1 Well Drilling	912.5228033	60.97947537
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2020	005000	Construction	C.1 Well Drilling	1205.059751	80.39410929
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2020	006000	Construction	C.1 Well Drilling	4023.834188	181.5986855
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2020	007000	Construction	C.1 Well Drilling	4821.618634	217.3713079

1060.969963	1.249762162	50.0321686	46.02959511	2017	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	59.34826023	54.60039941	2017	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	77.98044349	71.74200801	2017	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	174.9119482	160.9189923	2017	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	209.2039957	192.4676761	2017	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	260.6420671	239.7907017	2017	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	312.0801384	287.1137273	2017	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	397.8102572	365.9854367	2017	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	577.269724	531.0881461	2017	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	720.7242274	663.0662892	2017	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	884.6722312	813.8984527	2017	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	1089.607236	1002.438657	2017	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	1335.529242	1228.686903	2017	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	25.96951865	23.89195716	2018	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	33.66149016	30.96857094	2018	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	41.35346166	38.04518473	2018	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	49.04543317	45.12179851	2018	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	64.42937617	59.27502608	2018	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	163.1964128	150.1406998	2018	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	195.2569746	179.6364166	2018	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	243.3478172	223.8799918	2018	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	291.4386598	268.123567	2018	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	371.5900642	341.862859	2018	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	544.5728937	501.0070622	2018	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	679.9927161	625.5932988	2018	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	834.7582274	767.9775692	2018	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	1028.215117	945.9579072	2018	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	1260.363384	1159.534313	2018	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	23.45834049	21.58167325	2019	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	30.43243937	27.99784422	2019	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	37.40653826	34.4140152	2019	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	44.38063715	40.83018618	2019	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	58.32883492	53.66252813	2019	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	124.3601064	114.4112979	2019	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	148.7249189	136.8269254	2019	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	185.2721377	170.4503667	2019	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	221.8193565	204.0738079	2019	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	282.7313878	260.1128767	2019	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	411.1971285	378.3013582	2019	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	513.3623997	472.2934077	2019	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	630.1227096	579.7128928	2019	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	776.073097	713.9872492	2019	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	951.2135618	875.1164769	2019	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	19.78680255	18.20385834	2020	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	25.64783746	23.59601046	2020	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	31.50887236	28.98816257	2020	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	37.36990727	34.38031469	2020	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	49.09197709	45.16461892	2020	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	119.4004227	109.8483889	2020	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	142.8397677	131.4125863	2020	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction

0.420066789	0.386461644	1131	2017	No Reduction	No Reduction	No Reduction	No Reduction	0.23754777	0.21854406
0.094914254	0.087321082	219	2017	No Reduction	No Reduction	No Reduction	No Reduction	0.01039311	0.00956166
0.202323744	0.186137844	363	2017	No Reduction	No Reduction	No Reduction	No Reduction	0.03672176	0.03378402
0.06609602	0.060808351	89	2017	No Reduction	No Reduction	No Reduction	No Reduction	0.00294127	0.00270597
0.048289739	0.044426561	55	2017	No Reduction	No Reduction	No Reduction	No Reduction	0.00132797	0.00122173
0.027025021	0.024863016	25	2017	No Reduction	No Reduction	No Reduction	No Reduction	0.00033781	0.00031079
0.047507997	0.043707355	37	2017	No Reduction	No Reduction	No Reduction	No Reduction	0.0008789	0.00080859
0.053536714	0.049253783	33	2017	No Reduction	No Reduction	No Reduction	No Reduction	0.00088336	0.00081269
0.061177021	0.056282864	31	2017	No Reduction	No Reduction	No Reduction	No Reduction	0.00094824	0.00087238
0.100456083	0.092419596	41	2017	No Reduction	No Reduction	No Reduction	No Reduction	0.00205935	0.0018946
0.107817865	0.099192438	36	2017	No Reduction	No Reduction	No Reduction	No Reduction	0.00194072	0.00178546
0.036759285	0.033818542	10	2017	No Reduction	No Reduction	No Reduction	No Reduction	0.0001838	0.00016909
0.008986224	0.008267326	2	2017	No Reduction	No Reduction	No Reduction	No Reduction	8.9862E-06	8.2673E-06
0.066406106	0.061093626	325	2018	No Reduction	No Reduction	No Reduction	No Reduction	0.01079099	0.00992771
0.404082739	0.371756087	1582	2018	No Reduction	No Reduction	No Reduction	No Reduction	0.31962945	0.29405906
0.347290829	0.319507726	1133	2018	No Reduction	No Reduction	No Reduction	No Reduction	0.19674025	0.18100113
0.078319001	0.072053455	219	2018	No Reduction	No Reduction	No Reduction	No Reduction	0.00857593	0.00788985
0.167372829	0.153983002	364	2018	No Reduction	No Reduction	No Reduction	No Reduction	0.03046185	0.02802491
0.061576012	0.056649943	89	2018	No Reduction	No Reduction	No Reduction	No Reduction	0.00274013	0.00252092
0.045002492	0.041402294	55	2018	No Reduction	No Reduction	No Reduction	No Reduction	0.00123757	0.00113856
0.025193825	0.023178316	25	2018	No Reduction	No Reduction	No Reduction	No Reduction	0.00031492	0.00028973
0.044298893	0.040754979	37	2018	No Reduction	No Reduction	No Reduction	No Reduction	0.00081953	0.00075397
0.049932689	0.045938079	33	2018	No Reduction	No Reduction	No Reduction	No Reduction	0.00082389	0.00075798
0.057624967	0.053014974	31	2018	No Reduction	No Reduction	No Reduction	No Reduction	0.00089319	0.00082173
0.094636027	0.087065145	41	2018	No Reduction	No Reduction	No Reduction	No Reduction	0.00194004	0.00178484
0.101581392	0.093454883	36	2018	No Reduction	No Reduction	No Reduction	No Reduction	0.00182847	0.00168219
0.034635876	0.031865006	10	2018	No Reduction	No Reduction	No Reduction	No Reduction	0.00017318	0.00015933
0.008467686	0.007790271	2	2018	No Reduction	No Reduction	No Reduction	No Reduction	8.4677E-06	7.7903E-06
0.059894577	0.055103019	325	2019	No Reduction	No Reduction	No Reduction	No Reduction	0.00973287	0.00895424
0.365692907	0.336437445	1586	2019	No Reduction	No Reduction	No Reduction	No Reduction	0.28999448	0.26679489
0.313948357	0.288832637	1134	2019	No Reduction	No Reduction	No Reduction	No Reduction	0.17800872	0.1637681
0.07076332	0.065102231	219	2019	No Reduction	No Reduction	No Reduction	No Reduction	0.00774858	0.00712869
0.151712693	0.139575678	365	2019	No Reduction	No Reduction	No Reduction	No Reduction	0.02768757	0.02547256
0.046852001	0.04310385	89	2019	No Reduction	No Reduction	No Reduction	No Reduction	0.00208491	0.00191812
0.034226292	0.03148819	55	2019	No Reduction	No Reduction	No Reduction	No Reduction	0.00094122	0.00086593
0.019152385	0.017620192	25	2019	No Reduction	No Reduction	No Reduction	No Reduction	0.0002394	0.00022025
0.03366598	0.0309727	37	2019	No Reduction	No Reduction	No Reduction	No Reduction	0.00062282	0.00057299
0.037935079	0.034900277	33	2019	No Reduction	No Reduction	No Reduction	No Reduction	0.00062593	0.00057585
0.043446105	0.03997042	31	2019	No Reduction	No Reduction	No Reduction	No Reduction	0.00067341	0.00061954
0.071338242	0.065631182	41	2019	No Reduction	No Reduction	No Reduction	No Reduction	0.00146243	0.00134544
0.076564013	0.070438894	36	2019	No Reduction	No Reduction	No Reduction	No Reduction	0.00137815	0.0012679
0.02610303	0.024014788	10	2019	No Reduction	No Reduction	No Reduction	No Reduction	0.00013052	0.00012007
0.006381064	0.005870579	2	2019	No Reduction	No Reduction	No Reduction	No Reduction	6.3811E-06	5.8706E-06
0.05059961	0.046551647	326	2020	No Reduction	No Reduction	No Reduction	No Reduction	0.00824774	0.00758792
0.308123575	0.283473664	1588	2020	No Reduction	No Reduction	No Reduction	No Reduction	0.24465012	0.22507809
0.264518421	0.243357073	1136	2020	No Reduction	No Reduction	No Reduction	No Reduction	0.15024646	0.13822682
0.059767122	0.054985733	220	2020	No Reduction	No Reduction	No Reduction	No Reduction	0.00657438	0.00604843
0.127495903	0.11729623	365	2020	No Reduction	No Reduction	No Reduction	No Reduction	0.023268	0.02140656
0.04491589	0.041322628	89	2020	No Reduction	No Reduction	No Reduction	No Reduction	0.00199876	0.00183886
0.032822551	0.030196748	55	2020	No Reduction	No Reduction	No Reduction	No Reduction	0.00090262	0.00083041

0.237547769	1131	0.000210033	1.464772893	2017
0.010393111	219	4.74571E-05	0.330966002	2017
0.036721759	363	0.000101162	0.705502894	2017
0.002941273	89	3.3048E-05	0.230476821	2017
0.001327968	55	2.41449E-05	0.16838632	2017
0.000337813	25	1.35125E-05	0.094236249	2017
0.000878898	37	2.3754E-05	0.165660385	2017
0.000883356	33	2.67684E-05	0.186682523	2017
0.000948244	31	3.05885E-05	0.213324273	2017
0.00205935	41	5.0228E-05	0.350290361	2017
0.001940722	36	5.39089E-05	0.375960894	2017
0.000183796	10	1.83796E-05	0.128179626	2017
8.98622E-06	2	4.49311E-06	0.031334964	2017
0.010790992	325	3.32031E-05	0.23155809	2018
0.319629447	1582	0.000202041	1.409036513	2018
0.196740254	1133	0.000173645	1.211003119	2018
0.008575931	219	3.91595E-05	0.273098356	2018
0.030461855	364	8.36864E-05	0.583629054	2018
0.002740133	89	3.0788E-05	0.214715554	2018
0.001237569	55	2.25012E-05	0.156923688	2018
0.000314923	25	1.25969E-05	0.087850867	2018
0.00081953	37	2.21494E-05	0.154470238	2018
0.000823889	33	2.49663E-05	0.174115285	2018
0.000893187	31	2.88125E-05	0.200938259	2018
0.001940039	41	4.7318E-05	0.329995826	2018
0.001828465	36	5.07907E-05	0.354214314	2018
0.000173179	10	1.73179E-05	0.120775301	2018
8.46769E-06	2	4.23384E-06	0.029526821	2018
0.009732869	325	2.99473E-05	0.208852391	2019
0.289994476	1586	0.000182846	1.275171168	2019
0.178008718	1134	0.000156974	1.09473792	2019
0.007748584	219	3.53817E-05	0.246751698	2019
0.027687567	365	7.58563E-05	0.529022162	2019
0.002084914	89	2.3426E-05	0.163372926	2019
0.000941223	55	1.71131E-05	0.11934708	2019
0.000239405	25	9.57619E-06	0.066784367	2019
0.000622821	37	1.6833E-05	0.117393271	2019
0.000625929	33	1.89675E-05	0.132279619	2019
0.000673415	31	2.17231E-05	0.151496568	2019
0.001462434	41	3.56691E-05	0.248756449	2019
0.001378152	36	3.8282E-05	0.266978714	2019
0.000130515	10	1.30515E-05	0.091021267	2019
6.38106E-06	2	3.19053E-06	0.02225077	2019
0.008247736	326	2.52998E-05	0.176440839	2020
0.244650119	1588	0.000154062	1.074426908	2020
0.150246463	1136	0.000132259	0.922375735	2020
0.006574383	220	2.98836E-05	0.208407955	2020
0.023268002	365	6.3748E-05	0.444578213	2020
0.001998757	89	2.24579E-05	0.156621708	2020
0.00090262	55	1.64113E-05	0.114452236	2020

2020	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2020	008000	Construction	C.1 Well Drilling	6018.295302	271.0302415
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2020	009000	Construction	C.1 Well Drilling	7214.971971	324.6891751
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2020	010000	Construction	C.1 Well Drilling	9209.433085	414.1207311
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2020	011000	Construction	C.1 Well Drilling	13837.57353	609.3806479
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2020	012000	Construction	C.1 Well Drilling	17288.23892	761.0419164
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2020	013000	Construction	C.1 Well Drilling	21231.85651	934.3690805
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2020	014000	Construction	C.1 Well Drilling	26161.3785	1151.028036
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2020	015000	Construction	C.1 Well Drilling	32076.80488	1411.018782
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2021	001000	Construction	C.1 Well Drilling	454.0675786	30.83737278
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.20%	1.20%	2021	002000	Construction	C.1 Well Drilling	594.768133	40.29517785
	3000	No Reduct	No Reduct	No Reduct	No Reduct	0.84%	0.84%	2021	003000	Construction	C.1 Well Drilling	735.4686874	49.75298292
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.16%	0.16%	2021	004000	Construction	C.1 Well Drilling	876.1692418	59.21078799
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2021	005000	Construction	C.1 Well Drilling	1157.570351	78.12639812
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2021	006000	Construction	C.1 Well Drilling	3979.529499	180.8457994
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2021	007000	Construction	C.1 Well Drilling	4769.042215	216.5221677
2021	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2021	008000	Construction	C.1 Well Drilling	5953.31129	270.0367203
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2021	009000	Construction	C.1 Well Drilling	7137.580365	323.5512728
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2021	010000	Construction	C.1 Well Drilling	9111.362157	412.7421937
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2021	011000	Construction	C.1 Well Drilling	13724.00099	609.9411943
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2021	012000	Construction	C.1 Well Drilling	17147.00976	761.8105034
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2021	013000	Construction	C.1 Well Drilling	21059.01979	935.3754282
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2021	014000	Construction	C.1 Well Drilling	25949.03232	1152.331584
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2021	015000	Construction	C.1 Well Drilling	31817.04735	1412.678971
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.25%	0.25%	2022	001000	Construction	C.1 Well Drilling	341.9227276	25.77051109
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.20%	1.20%	2022	002000	Construction	C.1 Well Drilling	446.6023834	33.65855547
	3000	No Reduct	No Reduct	No Reduct	No Reduct	0.84%	0.84%	2022	003000	Construction	C.1 Well Drilling	551.2820392	41.54659984
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.16%	0.16%	2022	004000	Construction	C.1 Well Drilling	655.961695	49.43464421
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2022	005000	Construction	C.1 Well Drilling	865.3210066	65.21073296
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2022	006000	Construction	C.1 Well Drilling	3920.329107	178.9607315
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2022	007000	Construction	C.1 Well Drilling	4698.818176	214.3316023
2022	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2022	008000	Construction	C.1 Well Drilling	5866.55178	267.3879083
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2022	009000	Construction	C.1 Well Drilling	7034.285384	320.4442144
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2022	010000	Construction	C.1 Well Drilling	8980.508058	408.8713912
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2022	011000	Construction	C.1 Well Drilling	13571.14572	607.5116973
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2022	012000	Construction	C.1 Well Drilling	16956.96121	758.8630271
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2022	013000	Construction	C.1 Well Drilling	20826.46463	931.8359755
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2022	014000	Construction	C.1 Well Drilling	25663.3439	1148.052161
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2022	015000	Construction	C.1 Well Drilling	31467.59903	1407.511583
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2023	001000	Construction	C.1 Well Drilling	313.9175079	24.67658143
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.20%	1.20%	2023	002000	Construction	C.1 Well Drilling	410.0209101	32.26580395
	3000	No Reduct	No Reduct	No Reduct	No Reduct	0.84%	0.84%	2023	003000	Construction	C.1 Well Drilling	506.1243122	39.85502648
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.16%	0.16%	2023	004000	Construction	C.1 Well Drilling	602.2277144	47.444249
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2023	005000	Construction	C.1 Well Drilling	794.4345188	62.62269405
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2023	006000	Construction	C.1 Well Drilling	3880.922951	178.4587114
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2023	007000	Construction	C.1 Well Drilling	4651.986081	213.7686709
2023	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2023	008000	Construction	C.1 Well Drilling	5808.580775	266.7336101
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2023	009000	Construction	C.1 Well Drilling	6965.17547	319.6985494
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2023	010000	Construction	C.1 Well Drilling	8892.833295	407.9734481
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2023	011000	Construction	C.1 Well Drilling	13468.3814	608.4672392
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2023	012000	Construction	C.1 Well Drilling	16829.07493	760.1068205

5925.543293	6.971121135	177.9987851	163.7588823	2020	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	213.1578026	196.1051784	2020	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	271.756165	250.0156718	2020	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	397.7571575	365.9365849	2020	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	496.6455224	456.9138806	2020	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	609.6607966	560.8879329	2020	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	750.9298894	690.8554982	2020	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	920.4528007	846.8165766	2020	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	18.29023578	16.82701692	2021	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	23.74861487	21.84872568	2021	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	29.20699396	26.87043444	2021	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	34.66537304	31.8921432	2021	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	45.58213122	41.93556072	2021	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	115.4316973	106.1971615	2021	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	138.135017	127.0842157	2021	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	172.1899967	158.4147969	2021	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	206.2449763	189.7453782	2021	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	263.0032757	241.9630136	2021	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	387.1571718	356.184598	2021	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	483.4676901	444.7902749	2021	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	593.5368539	546.0539056	2021	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	731.1233086	672.6334439	2021	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	896.2270543	824.5288899	2021	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	13.75387874	12.65356844	2022	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	17.82438787	16.39843684	2022	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	21.89489701	20.14330525	2022	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	25.96540614	23.88817365	2022	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	34.10642441	31.37791045	2022	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	110.3747683	101.5447868	2022	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	132.1412517	121.5699516	2022	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	164.7909768	151.6076987	2022	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	197.4407019	181.6454457	2022	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	251.8569104	231.7083575	2022	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	373.7364222	343.8375084	2022	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	466.7849399	429.4421447	2022	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	573.126103	527.2760147	2022	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	706.0525568	649.5683523	2022	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	865.5643015	796.3191573	2022	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	12.11604117	11.14675788	2023	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	15.71365812	14.45656547	2023	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	19.31127507	17.76637307	2023	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	22.90889202	21.07618066	2023	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	30.10412592	27.69579585	2023	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	106.7825202	98.23991859	2023	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	127.8743862	117.6444353	2023	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	159.5121851	146.7512103	2023	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	191.1499841	175.8579854	2023	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	243.879649	224.3692771	2023	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	363.9836776	334.8649834	2023	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	454.6487994	418.2768955	2023	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction

0.018372865	0.016903033	25	2020	No Reduction	No Reduction	No Reduction	No Reduction	0.00022966	0.00021129
0.032302798	0.029718572	37	2020	No Reduction	No Reduction	No Reduction	No Reduction	0.0005976	0.00054979
0.036407718	0.033495105	33	2020	No Reduction	No Reduction	No Reduction	No Reduction	0.00060073	0.00055267
0.041962936	0.038605904	31	2020	No Reduction	No Reduction	No Reduction	No Reduction	0.00065043	0.00059839
0.06891154	0.063398617	41	2020	No Reduction	No Reduction	No Reduction	No Reduction	0.00141269	0.00129967
0.073966474	0.068049158	36	2020	No Reduction	No Reduction	No Reduction	No Reduction	0.0013314	0.00122488
0.025219402	0.02320185	10	2020	No Reduction	No Reduction	No Reduction	No Reduction	0.0001261	0.00011601
0.006165434	0.005672199	2	2020	No Reduction	No Reduction	No Reduction	No Reduction	6.1654E-06	5.6722E-06
0.04670237	0.042966186	326	2021	No Reduction	No Reduction	No Reduction	No Reduction	0.00761249	0.00700349
0.285237851	0.2624188	1590	2021	No Reduction	No Reduction	No Reduction	No Reduction	0.22676409	0.20862295
0.245472804	0.225835096	1139	2021	No Reduction	No Reduction	No Reduction	No Reduction	0.13979676	0.12861309
0.055358495	0.050929797	220	2021	No Reduction	No Reduction	No Reduction	No Reduction	0.00608943	0.00560228
0.118526817	0.109044672	366	2021	No Reduction	No Reduction	No Reduction	No Reduction	0.02169041	0.01995517
0.043357806	0.03988919	89	2021	No Reduction	No Reduction	No Reduction	No Reduction	0.00192942	0.00177507
0.031693854	0.029158347	55	2021	No Reduction	No Reduction	No Reduction	No Reduction	0.00087158	0.00080185
0.017746627	0.016326895	25	2021	No Reduction	No Reduction	No Reduction	No Reduction	0.00022183	0.00020409
0.031208317	0.02871165	37	2021	No Reduction	No Reduction	No Reduction	No Reduction	0.00057735	0.00053117
0.035182223	0.032367649	33	2021	No Reduction	No Reduction	No Reduction	No Reduction	0.00058051	0.00053407
0.040783382	0.037520715	31	2021	No Reduction	No Reduction	No Reduction	No Reduction	0.00063214	0.00058157
0.066982439	0.061623844	41	2021	No Reduction	No Reduction	No Reduction	No Reduction	0.00137314	0.00126329
0.071902238	0.06615006	36	2021	No Reduction	No Reduction	No Reduction	No Reduction	0.00129424	0.0011907
0.024517382	0.022555991	10	2021	No Reduction	No Reduction	No Reduction	No Reduction	0.00012259	0.00011278
0.005994159	0.005514626	2	2021	No Reduction	No Reduction	No Reduction	No Reduction	5.9942E-06	5.5146E-06
0.035066616	0.032261291	326	2022	No Reduction	No Reduction	No Reduction	No Reduction	0.00571586	0.00525859
0.214435214	0.197280379	1595	2022	No Reduction	No Reduction	No Reduction	No Reduction	0.17101208	0.1573311
0.183903334	0.169191154	1140	2022	No Reduction	No Reduction	No Reduction	No Reduction	0.1048249	0.09643896
0.041403072	0.038090812	220	2022	No Reduction	No Reduction	No Reduction	No Reduction	0.00455434	0.00418999
0.088553807	0.081469502	366	2022	No Reduction	No Reduction	No Reduction	No Reduction	0.01620535	0.01490892
0.041396256	0.038084564	89	2022	No Reduction	No Reduction	No Reduction	No Reduction	0.00184213	0.00169476
0.030273228	0.027851371	55	2022	No Reduction	No Reduction	No Reduction	No Reduction	0.00083251	0.00076591
0.016958615	0.015601924	25	2022	No Reduction	No Reduction	No Reduction	No Reduction	0.00021198	0.00019502
0.029831336	0.027444828	37	2022	No Reduction	No Reduction	No Reduction	No Reduction	0.00055188	0.00050773
0.033640701	0.030949449	33	2022	No Reduction	No Reduction	No Reduction	No Reduction	0.00055507	0.00051067
0.039310666	0.036165816	31	2022	No Reduction	No Reduction	No Reduction	No Reduction	0.00060932	0.00056057
0.064574252	0.059408312	41	2022	No Reduction	No Reduction	No Reduction	No Reduction	0.00132377	0.00121787
0.06932565	0.0637796	36	2022	No Reduction	No Reduction	No Reduction	No Reduction	0.00124786	0.00114803
0.023641201	0.021749905	10	2022	No Reduction	No Reduction	No Reduction	No Reduction	0.00011821	0.00010875
0.00578041	0.005317977	2	2022	No Reduction	No Reduction	No Reduction	No Reduction	5.7804E-06	5.318E-06
0.030939235	0.028464101	327	2023	No Reduction	No Reduction	No Reduction	No Reduction	0.00505856	0.00465388
0.189114526	0.173985349	1598	2023	No Reduction	No Reduction	No Reduction	No Reduction	0.15110251	0.13901429
0.162102033	0.149133947	1141	2023	No Reduction	No Reduction	No Reduction	No Reduction	0.09247921	0.08508092
0.036640479	0.033709228	221	2023	No Reduction	No Reduction	No Reduction	No Reduction	0.00404877	0.00372487
0.078045359	0.071801731	366	2023	No Reduction	No Reduction	No Reduction	No Reduction	0.0142823	0.01313972
0.039989083	0.036789965	89	2023	No Reduction	No Reduction	No Reduction	No Reduction	0.00177951	0.00163715
0.029251888	0.026911737	55	2023	No Reduction	No Reduction	No Reduction	No Reduction	0.00080443	0.00074007
0.016390826	0.015079558	25	2023	No Reduction	No Reduction	No Reduction	No Reduction	0.00020489	0.00018849
0.028837679	0.026530663	37	2023	No Reduction	No Reduction	No Reduction	No Reduction	0.0005335	0.00049082
0.032526456	0.029924343	33	2023	No Reduction	No Reduction	No Reduction	No Reduction	0.00053669	0.00049375
0.038227589	0.035169385	31	2023	No Reduction	No Reduction	No Reduction	No Reduction	0.00059253	0.00054513
0.062801298	0.057777194	41	2023	No Reduction	No Reduction	No Reduction	No Reduction	0.00128743	0.00118443

0.000229661	25	9.18643E-06	0.06406618	2020
0.000597602	37	1.61514E-05	0.112639856	2020
0.000600727	33	1.82039E-05	0.126953713	2020
0.000650426	31	2.09815E-05	0.146324757	2020
0.001412687	41	3.44558E-05	0.240294541	2020
0.001331397	36	3.69832E-05	0.257921094	2020
0.000126097	10	1.26097E-05	0.087940054	2020
6.16543E-06	2	3.08272E-06	0.02149887	2020
0.007612486	326	2.33512E-05	0.162851164	2021
0.226764092	1590	0.000142619	0.994624387	2021
0.139796762	1139	0.000122736	0.855963668	2021
0.006089434	220	2.76792E-05	0.193035071	2021
0.021690408	366	5.92634E-05	0.413303012	2021
0.001929422	89	2.16789E-05	0.151188669	2021
0.000871581	55	1.58469E-05	0.110516469	2021
0.000221833	25	8.87331E-06	0.06188249	2021
0.000577354	37	1.56042E-05	0.108823402	2021
0.000580507	33	1.75911E-05	0.122680412	2021
0.000632142	31	2.03917E-05	0.142211654	2021
0.00137314	41	3.34912E-05	0.233567765	2021
0.00129424	36	3.59511E-05	0.250723103	2021
0.000122587	10	1.22587E-05	0.08549211	2021
5.99416E-06	2	2.99708E-06	0.020901633	2021
0.005715858	326	1.75333E-05	0.122277289	2022
0.171012083	1595	0.000107218	0.74773559	2022
0.104824901	1140	9.19517E-05	0.641270927	2022
0.004554338	220	2.07015E-05	0.14437251	2022
0.016205347	366	4.42769E-05	0.308787123	2022
0.001842133	89	2.06981E-05	0.144348745	2022
0.000832514	55	1.51366E-05	0.105562746	2022
0.000211983	25	8.47931E-06	0.059134692	2022
0.00055188	37	1.49157E-05	0.104021869	2022
0.000555072	33	1.68204E-05	0.117305125	2022
0.000609315	31	1.96553E-05	0.137076292	2022
0.001323772	41	3.22871E-05	0.225170417	2022
0.001247862	36	3.46628E-05	0.241738542	2022
0.000118206	10	1.18206E-05	0.082436868	2022
5.78041E-06	2	2.8902E-06	0.020156288	2022
0.005058565	327	1.54696E-05	0.107885113	2023
0.151102507	1598	9.45573E-05	0.659442353	2023
0.09247921	1141	8.1051E-05	0.565249788	2023
0.004048773	221	1.83202E-05	0.127765349	2023
0.014282301	366	3.90227E-05	0.272144168	2023
0.001779514	89	1.99945E-05	0.139441933	2023
0.000804427	55	1.46259E-05	0.102001332	2023
0.000204885	25	8.19541E-06	0.057154811	2023
0.000533497	37	1.44188E-05	0.100556987	2023
0.000536687	33	1.62632E-05	0.113419753	2023
0.000592528	31	1.91138E-05	0.133299603	2023
0.001287427	41	3.14006E-05	0.218988125	2023

	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2023	013000	Construction	C.1 Well Drilling	20669.86753	933.4091991
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2023	014000	Construction	C.1 Well Drilling	25470.85828	1150.037172
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2023	015000	Construction	C.1 Well Drilling	31232.04718	1409.99074
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.25%	0.25%	2024	001000	Construction	C.1 Well Drilling	279.1916833	23.5733669
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.20%	1.20%	2024	002000	Construction	C.1 Well Drilling	364.3215201	30.8390318
	3000	No Reduct	No Reduct	No Reduct	No Reduct	0.84%	0.84%	2024	003000	Construction	C.1 Well Drilling	449.451357	38.1046967
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.16%	0.16%	2024	004000	Construction	C.1 Well Drilling	534.5811938	45.3703616
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2024	005000	Construction	C.1 Well Drilling	704.8408675	59.9016914
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2024	006000	Construction	C.1 Well Drilling	3872.359814	180.2189412
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2024	007000	Construction	C.1 Well Drilling	4642.071342	215.9074549
2024	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2024	008000	Construction	C.1 Well Drilling	5796.638635	269.4402256
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2024	009000	Construction	C.1 Well Drilling	6951.205927	322.9729963
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2024	010000	Construction	C.1 Well Drilling	8875.484748	412.1942808
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2024	011000	Construction	C.1 Well Drilling	13456.8761	615.976267
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2024	012000	Construction	C.1 Well Drilling	16815.14459	769.5262407
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2024	013000	Construction	C.1 Well Drilling	20653.16571	945.0119249
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2024	014000	Construction	C.1 Well Drilling	25450.69211	1164.36903
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2024	015000	Construction	C.1 Well Drilling	31207.7238	1427.597556
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2025	001000	Construction	C.1 Well Drilling	259.2889181	22.75828312
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.20%	1.20%	2025	002000	Construction	C.1 Well Drilling	338.491929	29.80596118
	3000	No Reduct	No Reduct	No Reduct	No Reduct	0.84%	0.84%	2025	003000	Construction	C.1 Well Drilling	417.6949398	36.85363923
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.16%	0.16%	2025	004000	Construction	C.1 Well Drilling	496.8979507	43.90131728
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2025	005000	Construction	C.1 Well Drilling	655.3039724	57.99667339
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2025	006000	Construction	C.1 Well Drilling	3854.5428	181.183546
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2025	007000	Construction	C.1 Well Drilling	4621.115383	217.0972054
2025	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2025	008000	Construction	C.1 Well Drilling	5770.974257	270.9676945
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2025	009000	Construction	C.1 Well Drilling	6920.833131	324.8381836
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2025	010000	Construction	C.1 Well Drilling	8837.264589	414.6223321
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2025	011000	Construction	C.1 Well Drilling	13418.10925	621.1381394
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2025	012000	Construction	C.1 Well Drilling	16767.21659	776.018862
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2025	013000	Construction	C.1 Well Drilling	20594.76783	953.0254021
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2025	014000	Construction	C.1 Well Drilling	25379.20689	1174.283577
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2025	015000	Construction	C.1 Well Drilling	31120.53376	1439.793387
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.25%	0.25%	2026	001000	Construction	C.1 Well Drilling	248.7099637	22.54780152
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.20%	1.20%	2026	002000	Construction	C.1 Well Drilling	324.8772241	29.55905691
	3000	No Reduct	No Reduct	No Reduct	No Reduct	0.84%	0.84%	2026	003000	Construction	C.1 Well Drilling	401.0444845	36.5703123
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.16%	0.16%	2026	004000	Construction	C.1 Well Drilling	477.2117449	43.58156769
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2026	005000	Construction	C.1 Well Drilling	629.5462656	57.60407848
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2026	006000	Construction	C.1 Well Drilling	2751.246266	132.6260497
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2026	007000	Construction	C.1 Well Drilling	3297.453882	158.8484526
2026	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2026	008000	Construction	C.1 Well Drilling	4116.765307	198.1820569
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2026	009000	Construction	C.1 Well Drilling	4936.076732	237.5156612
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2026	010000	Construction	C.1 Well Drilling	6301.595774	303.0716684
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2026	011000	Construction	C.1 Well Drilling	9527.043073	450.2183429
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2026	012000	Construction	C.1 Well Drilling	11903.7518	562.3944198
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2026	013000	Construction	C.1 Well Drilling	14619.99034	690.5956505
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2026	014000	Construction	C.1 Well Drilling	18015.28851	850.8471889
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2026	015000	Construction	C.1 Well Drilling	22089.64632	1043.149035
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2027	001000	Construction	C.1 Well Drilling	237.4394104	22.28579071
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.20%	1.20%	2027	002000	Construction	C.1 Well Drilling	310.3226543	29.23918253

20689.6613	24.3344225	558.2660815	513.604795	2023	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	687.7876841	632.7646694	2023	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	843.2136073	775.7565187	2023	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	10.7065109	9.849990027	2024	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	13.88905201	12.77792785	2024	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	17.07159313	15.70586568	2024	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	20.25413424	18.6338035	2024	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	26.61921647	24.48967915	2024	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	105.3744057	96.94445324	2024	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	126.2175093	116.1201086	2024	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	157.4821648	144.8835916	2024	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	188.7468202	173.6470746	2024	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	240.8545793	221.5862129	2024	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	360.6164814	331.7671629	2024	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	450.4808799	414.4424095	2024	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	553.1830496	508.9284056	2024	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	681.5607616	627.0359007	2024	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	835.6140162	768.7648949	2024	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	9.567177173	8.801802999	2025	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	12.43192262	11.43736881	2025	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	15.29666807	14.07293462	2025	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	18.16141351	16.70850043	2025	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	23.8909044	21.97963205	2025	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	103.286051	95.02316693	2025	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	123.7486731	113.8487792	2025	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	154.4426061	142.0871976	2025	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	185.1365392	170.325616	2025	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	236.2930943	217.3896467	2025	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	355.2807659	326.8583046	2025	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	443.8577221	408.3491044	2025	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	545.0885293	501.481447	2025	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	671.6270382	617.8968752	2025	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	823.473249	757.5953891	2025	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	8.829692143	8.123316771	2026	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	11.49217578	10.57280172	2026	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	14.15465942	13.02228666	2026	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	16.81714305	15.47177161	2026	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	22.14211033	20.3707415	2026	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	61.34753113	56.43972864	2026	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	73.44858911	67.57270198	2026	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	91.60017608	84.27216199	2026	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	109.751763	100.971622	2026	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	140.004408	128.8040554	2026	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	208.1908107	191.5355459	2026	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	260.0279531	239.2257169	2026	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	319.2704015	293.7287694	2026	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	393.3234621	361.8575851	2026	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	482.1871347	443.6121639	2026	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	8.101693118	7.453557668	2027	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	10.56198754	9.71702854	2027	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction

0.067427184	0.062033011	36	2023	No Reduction	No Reduction	No Reduction	No Reduction	0.00121369	0.00111659
0.022995186	0.021155571	10	2023	No Reduction	No Reduction	No Reduction	No Reduction	0.00011498	0.00010578
0.005622726	0.005172908	2	2023	No Reduction	No Reduction	No Reduction	No Reduction	5.6227E-06	5.1729E-06
0.027299066	0.025115144	327	2024	No Reduction	No Reduction	No Reduction	No Reduction	0.0044634	0.00410633
0.167010153	0.153649327	1599	2024	No Reduction	No Reduction	No Reduction	No Reduction	0.13352462	0.12284264
0.143213188	0.131756201	1142	2024	No Reduction	No Reduction	No Reduction	No Reduction	0.08177473	0.07523279
0.032346086	0.029758388	221	2024	No Reduction	No Reduction	No Reduction	No Reduction	0.00357424	0.0032883
0.069284176	0.063741442	368	2024	No Reduction	No Reduction	No Reduction	No Reduction	0.01274829	0.01172843
0.040288287	0.037065232	91	2024	No Reduction	No Reduction	No Reduction	No Reduction	0.00183312	0.00168647
0.028829754	0.026523374	55	2024	No Reduction	No Reduction	No Reduction	No Reduction	0.00079282	0.00072939
0.016158065	0.014865418	25	2024	No Reduction	No Reduction	No Reduction	No Reduction	0.00020198	0.00018582
0.028432607	0.026157997	37	2024	No Reduction	No Reduction	No Reduction	No Reduction	0.000526	0.00048392
0.032075031	0.029509032	33	2024	No Reduction	No Reduction	No Reduction	No Reduction	0.00052924	0.0004869
0.037817391	0.034792002	31	2024	No Reduction	No Reduction	No Reduction	No Reduction	0.00058617	0.00053928
0.062132657	0.057162044	41	2024	No Reduction	No Reduction	No Reduction	No Reduction	0.00127372	0.00117182
0.066713487	0.061376409	36	2024	No Reduction	No Reduction	No Reduction	No Reduction	0.00120084	0.00110478
0.02275297	0.020932733	10	2024	No Reduction	No Reduction	No Reduction	No Reduction	0.00011376	0.00010466
0.005563729	0.005118631	2	2024	No Reduction	No Reduction	No Reduction	No Reduction	5.5637E-06	5.1186E-06
0.02443215	0.022477582	328	2025	No Reduction	No Reduction	No Reduction	No Reduction	0.00400687	0.00368632
0.149452573	0.137496355	1601	2025	No Reduction	No Reduction	No Reduction	No Reduction	0.11963678	0.11006583
0.128356447	0.118087991	1144	2025	No Reduction	No Reduction	No Reduction	No Reduction	0.07341989	0.06754633
0.02896074	0.026643871	221	2025	No Reduction	No Reduction	No Reduction	No Reduction	0.00320016	0.00294415
0.06209024	0.057123021	368	2025	No Reduction	No Reduction	No Reduction	No Reduction	0.0114246	0.01051064
0.039430955	0.036276486	91	2025	No Reduction	No Reduction	No Reduction	No Reduction	0.00179411	0.00165058
0.028736851	0.026437904	56	2025	No Reduction	No Reduction	No Reduction	No Reduction	0.00080463	0.00074026
0.015822571	0.014556763	25	2025	No Reduction	No Reduction	No Reduction	No Reduction	0.00019778	0.00018196
0.027847174	0.025619399	37	2025	No Reduction	No Reduction	No Reduction	No Reduction	0.00051517	0.00047396
0.03142065	0.028907002	33	2025	No Reduction	No Reduction	No Reduction	No Reduction	0.00051844	0.00047697
0.037202288	0.034226108	31	2025	No Reduction	No Reduction	No Reduction	No Reduction	0.00057664	0.0005305
0.061127875	0.056237645	41	2025	No Reduction	No Reduction	No Reduction	No Reduction	0.00125312	0.00115287
0.065639275	0.060388135	36	2025	No Reduction	No Reduction	No Reduction	No Reduction	0.00118151	0.00108699
0.022387915	0.020596882	10	2025	No Reduction	No Reduction	No Reduction	No Reduction	0.00011194	0.00010298
0.005474718	0.00503674	2	2025	No Reduction	No Reduction	No Reduction	No Reduction	5.4747E-06	5.0367E-06
0.022515229	0.020714014	328	2026	No Reduction	No Reduction	No Reduction	No Reduction	0.0036925	0.0033971
0.138121878	0.127072116	1603	2026	No Reduction	No Reduction	No Reduction	No Reduction	0.11070469	0.1018483
0.118804198	0.109299918	1146	2026	No Reduction	No Reduction	No Reduction	No Reduction	0.06807481	0.06262885
0.026898363	0.024746485	222	2026	No Reduction	No Reduction	No Reduction	No Reduction	0.00298572	0.00274686
0.057459611	0.052862842	368	2026	No Reduction	No Reduction	No Reduction	No Reduction	0.01057257	0.00972676
0.023385445	0.021514614	91	2026	No Reduction	No Reduction	No Reduction	No Reduction	0.00106404	0.00097891
0.017030798	0.015668335	56	2026	No Reduction	No Reduction	No Reduction	No Reduction	0.00047686	0.00043871
0.009370422	0.008620787	25	2026	No Reduction	No Reduction	No Reduction	No Reduction	0.00011713	0.00010776
0.016483651	0.015164959	37	2026	No Reduction	No Reduction	No Reduction	No Reduction	0.00030495	0.00028055
0.018589118	0.01710199	33	2026	No Reduction	No Reduction	No Reduction	No Reduction	0.00030672	0.00028218
0.021767694	0.020026281	31	2026	No Reduction	No Reduction	No Reduction	No Reduction	0.0003374	0.00031041
0.03575761	0.032897001	41	2026	No Reduction	No Reduction	No Reduction	No Reduction	0.00073303	0.00067439
0.039455499	0.03629906	37	2026	No Reduction	No Reduction	No Reduction	No Reduction	0.00072993	0.00067153
0.013091465	0.012044148	10	2026	No Reduction	No Reduction	No Reduction	No Reduction	6.5457E-05	6.0221E-05
0.003200964	0.002944887	2	2026	No Reduction	No Reduction	No Reduction	No Reduction	3.201E-06	2.9449E-06
0.02069105	0.019035769	329	2027	No Reduction	No Reduction	No Reduction	No Reduction	0.00340368	0.00313138
0.126832513	0.116685901	1604	2027	No Reduction	No Reduction	No Reduction	No Reduction	0.10171968	0.09358209

0.001213689	36	3.37136E-05	0.235118592	2023
0.000114976	10	1.14976E-05	0.080184213	2023
5.62273E-06	2	2.81136E-06	0.019606445	2023
0.004463397	327	1.36495E-05	0.095191844	2024
0.133524617	1599	8.35051E-05	0.582364404	2024
0.081774731	1142	7.16066E-05	0.499384388	2024
0.003574242	221	1.6173E-05	0.1127908	2024
0.012748288	368	3.46421E-05	0.241593922	2024
0.001833117	91	2.01441E-05	0.140485255	2024
0.000792818	55	1.44149E-05	0.100529351	2024
0.000201976	25	8.07903E-06	0.056343173	2024
0.000526003	37	1.42163E-05	0.099144499	2024
0.000529238	33	1.60375E-05	0.111845634	2024
0.00058617	31	1.89087E-05	0.131869242	2024
0.001273719	41	3.10663E-05	0.216656574	2024
0.001200843	36	3.33567E-05	0.232629928	2024
0.000113765	10	1.13765E-05	0.079339607	2024
5.56373E-06	2	2.78186E-06	0.019400725	2024
0.004006873	328	1.22161E-05	0.085194909	2025
0.119636785	1601	7.47263E-05	0.521141122	2025
0.073419887	1144	6.41782E-05	0.447578929	2025
0.003200162	221	1.44804E-05	0.1009861	2025
0.011424604	368	3.10451E-05	0.216508667	2025
0.001794108	91	1.97155E-05	0.137495739	2025
0.000804632	56	1.43684E-05	0.100205399	2025
0.000197782	25	7.91129E-06	0.055173305	2025
0.000515173	37	1.39236E-05	0.097103097	2025
0.000518441	33	1.57103E-05	0.109563808	2025
0.000576635	31	1.86011E-05	0.129724377	2025
0.001253121	41	3.05639E-05	0.213152902	2025
0.001181507	36	3.28196E-05	0.228884153	2025
0.00011194	10	1.1194E-05	0.07806666	2025
5.47472E-06	2	2.73736E-06	0.019090341	2025
0.003692498	328	1.12576E-05	0.078510603	2026
0.110704685	1603	6.90609E-05	0.481630989	2026
0.068074805	1146	5.94021E-05	0.414270238	2026
0.002985718	222	1.34492E-05	0.093794592	2026
0.010572569	368	2.87298E-05	0.200361665	2026
0.001064038	91	1.16927E-05	0.081545046	2026
0.000476862	56	8.5154E-06	0.059386394	2026
0.00011713	25	4.68521E-06	0.032674663	2026
0.000304948	37	8.24183E-06	0.057478493	2026
0.00030672	33	9.29456E-06	0.064820253	2026
0.000337399	31	1.08838E-05	0.075903951	2026
0.000733031	41	1.78788E-05	0.124686787	2026
0.000729927	37	1.97277E-05	0.137581326	2026
6.54573E-05	10	6.54573E-06	0.045649939	2026
3.20096E-06	2	1.60048E-06	0.011161762	2026
0.003403678	329	1.03455E-05	0.072149692	2027
0.101719675	1604	6.34163E-05	0.442264971	2027

	3000	No Reduct	No Reduct	No Reduct	No Reduct	0.84%	0.84%	2027	003000	Construction	C.1 Well Drilling	383.2058981	36.19257436
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.16%	0.16%	2027	004000	Construction	C.1 Well Drilling	456.089142	43.14596618
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2027	005000	Construction	C.1 Well Drilling	601.8556298	57.05274983
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2027	006000	Construction	C.1 Well Drilling	2732.765427	134.013557
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2027	007000	Construction	C.1 Well Drilling	3275.560577	160.5311453
2027	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2027	008000	Construction	C.1 Well Drilling	4089.753302	200.3075278
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2027	009000	Construction	C.1 Well Drilling	4903.946026	240.0839103
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2027	010000	Construction	C.1 Well Drilling	6260.9339	306.3778812
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2027	011000	Construction	C.1 Well Drilling	9482.797117	456.3735298
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2027	012000	Construction	C.1 Well Drilling	11848.79898	570.1105084
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2027	013000	Construction	C.1 Well Drilling	14552.8011	700.0956269
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2027	014000	Construction	C.1 Well Drilling	17932.80376	862.5770249
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2027	015000	Construction	C.1 Well Drilling	21988.80695	1057.554703
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2028	001000	Construction	C.1 Well Drilling	220.3047946	21.91287962
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.20%	1.20%	2028	002000	Construction	C.1 Well Drilling	287.738463	28.7537402
	3000	No Reduct	No Reduct	No Reduct	No Reduct	0.84%	0.84%	2028	003000	Construction	C.1 Well Drilling	355.1721314	35.59460077
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.16%	0.16%	2028	004000	Construction	C.1 Well Drilling	422.6057999	42.43546135
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2028	005000	Construction	C.1 Well Drilling	557.4731368	56.11718251
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2028	006000	Construction	C.1 Well Drilling	2729.804588	136.2304136
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2028	007000	Construction	C.1 Well Drilling	3272.164748	163.1984367
2028	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2028	008000	Construction	C.1 Well Drilling	4085.704988	203.6504715
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2028	009000	Construction	C.1 Well Drilling	4899.245228	244.1025062
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2028	010000	Construction	C.1 Well Drilling	6255.145627	311.522564
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2028	011000	Construction	C.1 Well Drilling	9482.668135	464.5924702
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2028	012000	Construction	C.1 Well Drilling	11848.83422	580.3930133
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2028	013000	Construction	C.1 Well Drilling	14553.02403	712.7364911
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2028	014000	Construction	C.1 Well Drilling	17933.2613	878.1658384
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2028	015000	Construction	C.1 Well Drilling	21989.54602	1076.681055
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2029	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.20%	1.20%	2029	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	No Reduct	No Reduct	No Reduct	No Reduct	0.84%	0.84%	2029	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.16%	0.16%	2029	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2029	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2029	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2029	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2029	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2029	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2029	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2029	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2029	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2029	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2029	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2029	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2029	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2030	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.20%	1.20%	2030	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	No Reduct	No Reduct	No Reduct	No Reduct	0.84%	0.84%	2030	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.16%	0.16%	2030	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2030	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2030	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2030	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389

1060.969963	1.249762162	13.02228197	11.98049941	2027	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	15.48257639	14.24397028	2027	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	20.40316524	18.77091203	2027	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	59.61227168	54.84328995	2027	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	71.39056405	65.67931893	2027	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	89.05800261	81.9333624	2027	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	106.7254412	98.18740587	2027	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	136.1711721	125.2774783	2027	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	203.5993388	187.3113917	2027	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	254.3189711	233.9734534	2027	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	312.2842651	287.3015239	2027	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	384.7408826	353.961612	2027	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	471.6888236	433.9537177	2027	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	7.431979033	6.83742071	2028	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	9.688992596	8.913873189	2028	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	11.94600616	10.99032567	2028	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	14.20301972	13.06677815	2028	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	18.71704685	17.2196831	2028	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	58.97986828	54.26147881	2028	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	70.64365426	64.99216192	2028	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	88.13933324	81.08818658	2028	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	105.6350122	97.18421124	2028	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	134.7944772	124.010919	2028	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	202.0884447	185.9213691	2028	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	252.4453213	232.2496956	2028	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	309.9960374	285.1963544	2028	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	381.9344325	351.3796779	2028	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	468.2605067	430.7996662	2028	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2029	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2029	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2029	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2029	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2029	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2029	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2029	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2029	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2029	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2029	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2029	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2029	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2029	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2029	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2029	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2030	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2030	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2030	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2030	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2030	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2030	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2030	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction

0.109327802	0.100581629	1148	2027	No Reduction	No Reduction	No Reduction	No Reduction	0.06275416	0.05773386
0.024726962	0.022748796	222	2027	No Reduction	No Reduction	No Reduction	No Reduction	0.00274469	0.00252512
0.053011935	0.04877098	369	2027	No Reduction	No Reduction	No Reduction	No Reduction	0.0097807	0.00899825
0.022690189	0.020874978	91	2027	No Reduction	No Reduction	No Reduction	No Reduction	0.0010324	0.00094981
0.016528988	0.015206669	56	2027	No Reduction	No Reduction	No Reduction	No Reduction	0.00046281	0.00042579
0.009096822	0.008369075	25	2027	No Reduction	No Reduction	No Reduction	No Reduction	0.00011371	0.00010461
0.016437874	0.015122843	38	2027	No Reduction	No Reduction	No Reduction	No Reduction	0.00031232	0.00028733
0.018053281	0.01660902	33	2027	No Reduction	No Reduction	No Reduction	No Reduction	0.00029788	0.00027405
0.02125598	0.019555503	31	2027	No Reduction	No Reduction	No Reduction	No Reduction	0.00032947	0.00030311
0.034920552	0.032126907	41	2027	No Reduction	No Reduction	No Reduction	No Reduction	0.00071587	0.0006586
0.038534779	0.035451998	37	2027	No Reduction	No Reduction	No Reduction	No Reduction	0.00071289	0.00065586
0.012786763	0.011763822	10	2027	No Reduction	No Reduction	No Reduction	No Reduction	6.3934E-05	5.8819E-05
0.003126617	0.002876487	2	2027	No Reduction	No Reduction	No Reduction	No Reduction	3.1266E-06	2.8765E-06
0.018952481	0.017436285	329	2028	No Reduction	No Reduction	No Reduction	No Reduction	0.00311768	0.00286827
0.116466252	0.107148942	1608	2028	No Reduction	No Reduction	No Reduction	No Reduction	0.09363887	0.08614775
0.100317582	0.092292223	1150	2028	No Reduction	No Reduction	No Reduction	No Reduction	0.05768261	0.05306803
0.022649732	0.020837746	222	2028	No Reduction	No Reduction	No Reduction	No Reduction	0.00251412	0.00231299
0.048558838	0.044674131	369	2028	No Reduction	No Reduction	No Reduction	No Reduction	0.00895911	0.00824238
0.022416153	0.020622865	91	2028	No Reduction	No Reduction	No Reduction	No Reduction	0.00101993	0.00093834
0.016331777	0.015025235	56	2028	No Reduction	No Reduction	No Reduction	No Reduction	0.00045729	0.00042071
0.008989621	0.00827045	25	2028	No Reduction	No Reduction	No Reduction	No Reduction	0.00011237	0.00010338
0.016245774	0.014946112	38	2028	No Reduction	No Reduction	No Reduction	No Reduction	0.00030867	0.00028398
0.017844234	0.016416697	33	2028	No Reduction	No Reduction	No Reduction	No Reduction	0.00029443	0.00027088
0.021066922	0.01938157	31	2028	No Reduction	No Reduction	No Reduction	No Reduction	0.00032654	0.00030041
0.034611826	0.03184288	41	2028	No Reduction	No Reduction	No Reduction	No Reduction	0.00070954	0.00065278
0.038195638	0.035139987	37	2028	No Reduction	No Reduction	No Reduction	No Reduction	0.00070662	0.00065009
0.012674649	0.011660677	10	2028	No Reduction	No Reduction	No Reduction	No Reduction	6.3373E-05	5.8303E-05
0.003099284	0.002851342	2	2028	No Reduction	No Reduction	No Reduction	No Reduction	3.0993E-06	2.8513E-06
0.018255408	0.016794978	330	2029	No Reduction	No Reduction	No Reduction	No Reduction	0.00301214	0.00277117
0.112073952	0.103108027	1610	2029	No Reduction	No Reduction	No Reduction	No Reduction	0.09021953	0.08300196
0.096631475	0.088901003	1152	2029	No Reduction	No Reduction	No Reduction	No Reduction	0.05565973	0.05120698
0.021787202	0.020044219	222	2029	No Reduction	No Reduction	No Reduction	No Reduction	0.00241838	0.00222491
0.046857092	0.043108525	370	2029	No Reduction	No Reduction	No Reduction	No Reduction	0.00866856	0.00797508
0.022244613	0.020465048	91	2029	No Reduction	No Reduction	No Reduction	No Reduction	0.00101213	0.00093116
0.01620884	0.014912133	56	2029	No Reduction	No Reduction	No Reduction	No Reduction	0.00045385	0.00041754
0.008923079	0.008209232	25	2029	No Reduction	No Reduction	No Reduction	No Reduction	0.00011154	0.00010262
0.016126886	0.014836734	38	2029	No Reduction	No Reduction	No Reduction	No Reduction	0.00030641	0.0002819
0.01771528	0.016298059	33	2029	No Reduction	No Reduction	No Reduction	No Reduction	0.0002923	0.00026892
0.020963262	0.019286203	31	2029	No Reduction	No Reduction	No Reduction	No Reduction	0.00032493	0.00029894
0.034443093	0.031687645	41	2029	No Reduction	No Reduction	No Reduction	No Reduction	0.00070608	0.0006496
0.038010729	0.034969871	37	2029	No Reduction	No Reduction	No Reduction	No Reduction	0.0007032	0.00064694
0.012613645	0.011604554	10	2029	No Reduction	No Reduction	No Reduction	No Reduction	6.3068E-05	5.8023E-05
0.003084436	0.002837681	2	2029	No Reduction	No Reduction	No Reduction	No Reduction	3.0844E-06	2.8377E-06
0.01822839	0.016770121	330	2030	No Reduction	No Reduction	No Reduction	No Reduction	0.00300768	0.00276707
0.112116605	0.103147267	1613	2030	No Reduction	No Reduction	No Reduction	No Reduction	0.09042204	0.08318827
0.096572216	0.088846484	1153	2030	No Reduction	No Reduction	No Reduction	No Reduction	0.05567388	0.05122
0.021852952	0.020104708	223	2030	No Reduction	No Reduction	No Reduction	No Reduction	0.0024366	0.00224167
0.046914196	0.04316106	371	2030	No Reduction	No Reduction	No Reduction	No Reduction	0.00870258	0.00800638
0.022211691	0.02043476	91	2030	No Reduction	No Reduction	No Reduction	No Reduction	0.00101063	0.00092978
0.01618485	0.014890063	56	2030	No Reduction	No Reduction	No Reduction	No Reduction	0.00045318	0.00041692

0.062754158	1148	5.46639E-05	0.381226045	2027
0.002744693	222	1.23635E-05	0.086222915	2027
0.009780702	369	2.6506E-05	0.184852618	2027
0.001032404	91	1.13451E-05	0.079120688	2027
0.000462812	56	8.26449E-06	0.05763658	2027
0.00011371	25	4.54841E-06	0.031720619	2027
0.00031232	38	8.21894E-06	0.057318865	2027
0.000297879	33	9.02664E-06	0.062951789	2027
0.000329468	31	1.0628E-05	0.074119602	2027
0.000715871	41	1.74603E-05	0.121767963	2027
0.000712893	37	1.92674E-05	0.134370775	2027
6.39338E-05	10	6.39338E-06	0.044587444	2027
3.12662E-06	2	1.56331E-06	0.010902513	2027
0.003117683	329	9.47624E-06	0.066087301	2028
0.093638866	1608	5.82331E-05	0.406117819	2028
0.05768261	1150	5.01588E-05	0.349807409	2028
0.00251412	222	1.13249E-05	0.078979614	2028
0.008959106	369	2.42794E-05	0.169324668	2028
0.001019935	91	1.12081E-05	0.078165125	2028
0.00045729	56	8.16589E-06	0.056948907	2028
0.00011237	25	4.49481E-06	0.031346807	2028
0.00030867	38	8.12289E-06	0.056649015	2028
0.00029443	33	8.92212E-06	0.062222843	2028
0.000326537	31	1.05335E-05	0.073460358	2028
0.000709542	41	1.73059E-05	0.120691437	2028
0.000706619	37	1.90978E-05	0.133188188	2028
6.33732E-05	10	6.33732E-06	0.044196502	2028
3.09928E-06	2	1.54964E-06	0.010807205	2028
0.003012142	330	9.1277E-06	0.063656608	2029
0.090219531	1610	5.6037E-05	0.390801871	2029
0.055659729	1152	4.83157E-05	0.336953953	2029
0.002418379	222	1.08936E-05	0.075971973	2029
0.008668562	370	2.34285E-05	0.16339068	2029
0.00101213	91	1.11223E-05	0.077566965	2029
0.000453848	56	8.10442E-06	0.056520224	2029
0.000111538	25	4.46154E-06	0.031114777	2029
0.000306411	38	8.06344E-06	0.056234451	2029
0.000292302	33	8.85764E-06	0.06177318	2029
0.000324931	31	1.04816E-05	0.073098895	2029
0.000706083	41	1.72215E-05	0.120103065	2029
0.000703198	37	1.90054E-05	0.132543411	2029
6.30682E-05	10	6.30682E-06	0.043983781	2029
3.08444E-06	2	1.54222E-06	0.01075543	2029
0.003007684	330	9.11419E-06	0.063562395	2030
0.090422042	1613	5.60583E-05	0.390950601	2030
0.055673882	1153	4.82861E-05	0.336747316	2030
0.002436604	223	1.09265E-05	0.076201243	2030
0.008702583	371	2.34571E-05	0.163589802	2030
0.001010632	91	1.11058E-05	0.077452165	2030
0.000453176	56	8.09243E-06	0.056436573	2030

2030	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2030	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2030	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2030	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2030	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2030	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2030	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2030	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2030	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.25%	0.25%	2031	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.20%	1.20%	2031	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	No Reduct	No Reduct	No Reduct	No Reduct	0.84%	0.84%	2031	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.16%	0.16%	2031	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2031	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2031	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2031	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2031	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2031	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2031	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2031	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2031	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2031	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2031	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2031	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2031	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2032	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.20%	1.20%	2032	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	No Reduct	No Reduct	No Reduct	No Reduct	0.84%	0.84%	2032	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.16%	0.16%	2032	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2032	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2032	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2032	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2032	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2032	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2032	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2032	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2032	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2032	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2032	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2032	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2032	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2033	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.20%	1.20%	2033	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	No Reduct	No Reduct	No Reduct	No Reduct	0.84%	0.84%	2033	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.16%	0.16%	2033	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2033	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2033	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2033	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2033	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2033	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2033	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2033	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2033	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2033	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218

5925.543293	6.971121135	87.61679069	80.60744744	2030	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2030	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2030	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2030	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2030	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2030	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2030	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2030	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2031	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2031	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2031	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2031	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2031	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2031	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2031	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2031	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2031	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2031	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2031	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2031	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2031	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2031	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2031	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2032	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2032	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2032	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2032	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2032	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2032	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2032	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2032	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2032	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2032	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2032	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2032	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2032	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2032	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2032	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2033	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2033	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2033	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2033	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2033	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2033	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2033	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2033	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2033	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2033	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2033	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2033	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction

0.008909873	0.008197082	25	2030	No Reduction	No Reduction	No Reduction	No Reduction	0.00011137	0.00010246
0.016103018	0.014814776	38	2030	No Reduction	No Reduction	No Reduction	No Reduction	0.00030596	0.00028148
0.017689061	0.016273938	33	2030	No Reduction	No Reduction	No Reduction	No Reduction	0.00029187	0.00026852
0.020932236	0.019257659	31	2030	No Reduction	No Reduction	No Reduction	No Reduction	0.00032445	0.00029849
0.034392116	0.031640747	41	2030	No Reduction	No Reduction	No Reduction	No Reduction	0.00070504	0.00064864
0.037954472	0.034918115	37	2030	No Reduction	No Reduction	No Reduction	No Reduction	0.00070216	0.00064599
0.012594977	0.011587379	10	2030	No Reduction	No Reduction	No Reduction	No Reduction	6.2975E-05	5.7937E-05
0.003079871	0.002833482	2	2030	No Reduction	No Reduction	No Reduction	No Reduction	3.0799E-06	2.8335E-06
0.018201451	0.016745337	330	2031	No Reduction	No Reduction	No Reduction	No Reduction	0.00300324	0.00276298
0.112159131	0.103186392	1616	2031	No Reduction	No Reduction	No Reduction	No Reduction	0.09062458	0.0833746
0.096596765	0.08886907	1155	2031	No Reduction	No Reduction	No Reduction	No Reduction	0.05578463	0.05132189
0.021820657	0.020074997	223	2031	No Reduction	No Reduction	No Reduction	No Reduction	0.002433	0.00223836
0.046844865	0.043097276	371	2031	No Reduction	No Reduction	No Reduction	No Reduction	0.00868972	0.00799454
0.022178865	0.020404561	91	2031	No Reduction	No Reduction	No Reduction	No Reduction	0.00100914	0.00092841
0.016160932	0.014868058	56	2031	No Reduction	No Reduction	No Reduction	No Reduction	0.00045251	0.00041631
0.008896705	0.008184968	25	2031	No Reduction	No Reduction	No Reduction	No Reduction	0.00011121	0.00010231
0.01607922	0.014792882	38	2031	No Reduction	No Reduction	No Reduction	No Reduction	0.00030551	0.00028106
0.017662919	0.016249888	33	2031	No Reduction	No Reduction	No Reduction	No Reduction	0.00029144	0.00026812
0.021575537	0.019849496	32	2031	No Reduction	No Reduction	No Reduction	No Reduction	0.00034521	0.00031759
0.034341291	0.031593987	41	2031	No Reduction	No Reduction	No Reduction	No Reduction	0.000704	0.00064768
0.037898382	0.034866512	37	2031	No Reduction	No Reduction	No Reduction	No Reduction	0.00070112	0.00064503
0.012576364	0.011570255	10	2031	No Reduction	No Reduction	No Reduction	No Reduction	6.2882E-05	5.7851E-05
0.00307532	0.002829294	2	2031	No Reduction	No Reduction	No Reduction	No Reduction	3.0753E-06	2.8293E-06
0.018284741	0.016821964	332	2032	No Reduction	No Reduction	No Reduction	No Reduction	0.00303527	0.00279245
0.112062927	0.103097883	1617	2032	No Reduction	No Reduction	No Reduction	No Reduction	0.09060288	0.08335464
0.096621242	0.088891589	1157	2032	No Reduction	No Reduction	No Reduction	No Reduction	0.05589539	0.05142378
0.021886163	0.020135263	224	2032	No Reduction	No Reduction	No Reduction	No Reduction	0.00245125	0.00225515
0.046775738	0.043033679	371	2032	No Reduction	No Reduction	No Reduction	No Reduction	0.0086769	0.00798275
0.022146137	0.020374451	91	2032	No Reduction	No Reduction	No Reduction	No Reduction	0.00100765	0.00092704
0.016137084	0.014846118	56	2032	No Reduction	No Reduction	No Reduction	No Reduction	0.00045184	0.00041569
0.008883577	0.00817289	25	2032	No Reduction	No Reduction	No Reduction	No Reduction	0.00011104	0.00010216
0.016055493	0.014771053	38	2032	No Reduction	No Reduction	No Reduction	No Reduction	0.00030505	0.00028065
0.017636855	0.016225908	33	2032	No Reduction	No Reduction	No Reduction	No Reduction	0.00029101	0.00026773
0.021543699	0.019820205	32	2032	No Reduction	No Reduction	No Reduction	No Reduction	0.0003447	0.00031712
0.034290615	0.031547366	41	2032	No Reduction	No Reduction	No Reduction	No Reduction	0.00070296	0.00064672
0.037842457	0.034815061	37	2032	No Reduction	No Reduction	No Reduction	No Reduction	0.00070009	0.00064408
0.012557805	0.011553181	10	2032	No Reduction	No Reduction	No Reduction	No Reduction	6.2789E-05	5.7766E-05
0.003070782	0.002825119	2	2032	No Reduction	No Reduction	No Reduction	No Reduction	3.0708E-06	2.8251E-06
0.018262284	0.016801304	332	2033	No Reduction	No Reduction	No Reduction	No Reduction	0.00303154	0.00278902
0.111925291	0.102971258	1617	2033	No Reduction	No Reduction	No Reduction	No Reduction	0.0904916	0.08325226
0.096669387	0.088935882	1159	2033	No Reduction	No Reduction	No Reduction	No Reduction	0.05601991	0.05153834
0.021859283	0.020110533	224	2033	No Reduction	No Reduction	No Reduction	No Reduction	0.00244824	0.00225238
0.046844213	0.043096676	372	2033	No Reduction	No Reduction	No Reduction	No Reduction	0.00871302	0.00801598
0.022118937	0.020349427	91	2033	No Reduction	No Reduction	No Reduction	No Reduction	0.00100641	0.0009259
0.016117264	0.014827884	56	2033	No Reduction	No Reduction	No Reduction	No Reduction	0.00045128	0.00041518
0.009227573	0.008489366	26	2033	No Reduction	No Reduction	No Reduction	No Reduction	0.00011996	0.00011036
0.016035774	0.014752911	38	2033	No Reduction	No Reduction	No Reduction	No Reduction	0.00030468	0.00028031
0.017615193	0.01620598	33	2033	No Reduction	No Reduction	No Reduction	No Reduction	0.00029065	0.0002674
0.021517239	0.019795862	32	2033	No Reduction	No Reduction	No Reduction	No Reduction	0.00034428	0.00031673
0.035083828	0.032277122	42	2033	No Reduction	No Reduction	No Reduction	No Reduction	0.00073676	0.00067782

0.000111373	25	4.45494E-06	0.031068726	2030
0.000305957	38	8.05151E-06	0.056151223	2030
0.00029187	33	8.84453E-06	0.061681754	2030
0.00032445	31	1.04661E-05	0.072990707	2030
0.000705038	41	1.71961E-05	0.11992531	2030
0.000702158	37	1.89772E-05	0.132347244	2030
6.29749E-05	10	6.29749E-06	0.043918684	2030
3.07987E-06	2	1.53994E-06	0.010739511	2030
0.003003239	330	9.10073E-06	0.06346846	2031
0.090624578	1616	5.60796E-05	0.391098891	2031
0.055784632	1155	4.82984E-05	0.33683292	2031
0.002433003	223	1.09103E-05	0.07608863	2031
0.008689722	371	2.34224E-05	0.163348044	2031
0.001009138	91	1.10894E-05	0.077337704	2031
0.000452506	56	8.08047E-06	0.056353169	2031
0.000111209	25	4.44835E-06	0.031022812	2031
0.000305505	38	8.03961E-06	0.056068241	2031
0.000291438	33	8.83146E-06	0.061590599	2031
0.000345209	32	1.07878E-05	0.075233898	2031
0.000703996	41	1.71706E-05	0.11974808	2031
0.00070112	37	1.89492E-05	0.132151657	2031
6.28818E-05	10	6.28818E-06	0.04385378	2031
3.07532E-06	2	1.53766E-06	0.01072364	2031
0.003035267	332	9.14237E-06	0.063758892	2032
0.090602876	1617	5.60315E-05	0.390763425	2032
0.055895389	1157	4.83106E-05	0.336918272	2032
0.00245125	224	1.09431E-05	0.076317051	2032
0.008676899	371	2.33879E-05	0.163106999	2032
0.001007649	91	1.10731E-05	0.07722358	2032
0.000451838	56	8.06854E-06	0.056270011	2032
0.000111045	25	4.44179E-06	0.030977033	2032
0.000305054	38	8.02775E-06	0.055985504	2032
0.000291008	33	8.81843E-06	0.061499713	2032
0.000344699	32	1.07718E-05	0.075122879	2032
0.000702958	41	1.71453E-05	0.119571374	2032
0.000700085	37	1.89212E-05	0.131956647	2032
6.2789E-05	10	6.2789E-06	0.043789067	2032
3.07078E-06	2	1.53539E-06	0.010707816	2032
0.003031539	332	9.13114E-06	0.063680584	2033
0.090491598	1617	5.59626E-05	0.390283489	2033
0.05601991	1159	4.83347E-05	0.337086154	2033
0.00244824	224	1.09296E-05	0.076223318	2033
0.008713024	372	2.34221E-05	0.163345772	2033
0.001006412	91	1.10595E-05	0.077128734	2033
0.000451283	56	8.05863E-06	0.0562009	2033
0.000119958	26	4.61379E-06	0.032176547	2033
0.00030468	38	8.01789E-06	0.055916743	2033
0.000290651	33	8.8076E-06	0.061424179	2033
0.000344276	32	1.07586E-05	0.075030613	2033
0.00073676	42	1.75419E-05	0.122337309	2033

	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2033	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2033	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2033	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2034	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.20%	1.20%	2034	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	No Reduct	No Reduct	No Reduct	No Reduct	0.84%	0.84%	2034	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.16%	0.16%	2034	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2034	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2034	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2034	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2034	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2034	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2034	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2034	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2034	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2034	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2034	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2034	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2034	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2035	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.20%	1.20%	2035	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	No Reduct	No Reduct	No Reduct	No Reduct	0.84%	0.84%	2035	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.16%	0.16%	2035	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2035	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2035	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2035	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2035	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2035	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2035	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2035	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2035	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2035	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2035	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2035	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2035	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176

20689.6613	24.3344225	308.95325	284.23699	2033	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2033	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2033	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2034	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2034	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2034	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2034	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2034	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2034	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2034	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2034	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2034	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2034	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2034	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2034	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2034	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2034	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2034	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2035	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2035	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2035	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2035	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2035	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2035	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2035	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2035	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2035	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2035	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2035	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2035	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2035	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2035	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2035	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction

0.037795979	0.034772301	37	2033	No Reduction	No Reduction	No Reduction	No Reduction	0.00069923	0.00064329
0.012542382	0.011538991	10	2033	No Reduction	No Reduction	No Reduction	No Reduction	6.2712E-05	5.7695E-05
0.00306701	0.002821649	2	2033	No Reduction	No Reduction	No Reduction	No Reduction	3.067E-06	2.8216E-06
0.018290334	0.016827109	333	2034	No Reduction	No Reduction	No Reduction	No Reduction	0.00304534	0.00280171
0.111967922	0.103010479	1620	2034	No Reduction	No Reduction	No Reduction	No Reduction	0.09069402	0.08343849
0.096693692	0.088958242	1161	2034	No Reduction	No Reduction	No Reduction	No Reduction	0.05613069	0.05164026
0.021827113	0.020080937	224	2034	No Reduction	No Reduction	No Reduction	No Reduction	0.00244464	0.00224906
0.046775274	0.043033252	372	2034	No Reduction	No Reduction	No Reduction	No Reduction	0.0087002	0.00800418
0.022086385	0.020319479	91	2034	No Reduction	No Reduction	No Reduction	No Reduction	0.00100493	0.00092454
0.016093545	0.014806062	56	2034	No Reduction	No Reduction	No Reduction	No Reduction	0.00045062	0.00041457
0.009213993	0.008476872	26	2034	No Reduction	No Reduction	No Reduction	No Reduction	0.00011978	0.0001102
0.016012174	0.0147312	38	2034	No Reduction	No Reduction	No Reduction	No Reduction	0.00030423	0.00027989
0.01758927	0.01618213	33	2034	No Reduction	No Reduction	No Reduction	No Reduction	0.00029022	0.00026701
0.021485573	0.019766729	32	2034	No Reduction	No Reduction	No Reduction	No Reduction	0.00034377	0.00031627
0.035032197	0.032229621	42	2034	No Reduction	No Reduction	No Reduction	No Reduction	0.00073568	0.00067682
0.037740356	0.034721128	37	2034	No Reduction	No Reduction	No Reduction	No Reduction	0.0006982	0.00064234
0.012523923	0.01152201	10	2034	No Reduction	No Reduction	No Reduction	No Reduction	6.262E-05	5.761E-05
0.003062497	0.002817497	2	2034	No Reduction	No Reduction	No Reduction	No Reduction	3.0625E-06	2.8175E-06
0.018263456	0.016802382	333	2035	No Reduction	No Reduction	No Reduction	No Reduction	0.00304087	0.0027976
0.112010427	0.103049584	1623	2035	No Reduction	No Reduction	No Reduction	No Reduction	0.09089646	0.08362474
0.096717924	0.088980536	1163	2035	No Reduction	No Reduction	No Reduction	No Reduction	0.05624147	0.05174218
0.021795038	0.020051428	224	2035	No Reduction	No Reduction	No Reduction	No Reduction	0.00244104	0.00224576
0.046832093	0.043085525	373	2035	No Reduction	No Reduction	No Reduction	No Reduction	0.00873419	0.00803545
0.022053929	0.020289619	91	2035	No Reduction	No Reduction	No Reduction	No Reduction	0.00100345	0.00092318
0.016069895	0.014784304	56	2035	No Reduction	No Reduction	No Reduction	No Reduction	0.00044996	0.00041396
0.009200453	0.008464416	26	2035	No Reduction	No Reduction	No Reduction	No Reduction	0.00011961	0.00011004
0.015988644	0.014709552	38	2035	No Reduction	No Reduction	No Reduction	No Reduction	0.00030378	0.00027948
0.017563422	0.01615835	33	2035	No Reduction	No Reduction	No Reduction	No Reduction	0.0002898	0.00026661
0.021454	0.019737681	32	2035	No Reduction	No Reduction	No Reduction	No Reduction	0.00034326	0.0003158
0.034980716	0.032182259	42	2035	No Reduction	No Reduction	No Reduction	No Reduction	0.0007346	0.00067583
0.037684896	0.034670105	37	2035	No Reduction	No Reduction	No Reduction	No Reduction	0.00069717	0.0006414
0.012505519	0.011505078	10	2035	No Reduction	No Reduction	No Reduction	No Reduction	6.2528E-05	5.7525E-05
0.003057996	0.002813356	2	2035	No Reduction	No Reduction	No Reduction	No Reduction	3.058E-06	2.8134E-06

0.000699226	37	1.8898E-05	0.131794578	2033
6.27119E-05	10	6.27119E-06	0.043735285	2033
3.06701E-06	2	1.53351E-06	0.010694664	2033
0.003045341	333	9.14517E-06	0.063778394	2034
0.090694017	1620	5.5984E-05	0.390432143	2034
0.056130688	1161	4.83468E-05	0.337170902	2034
0.002444637	224	1.09136E-05	0.076111143	2034
0.008700201	372	2.33876E-05	0.163105381	2034
0.001004931	91	1.10432E-05	0.077015226	2034
0.000450619	56	8.04677E-06	0.056118191	2034
0.000119782	26	4.607E-06	0.032129193	2034
0.000304231	38	8.00609E-06	0.055834452	2034
0.000290223	33	8.79463E-06	0.061333783	2034
0.000343769	32	1.07428E-05	0.074920193	2034
0.000735676	42	1.75161E-05	0.122157269	2034
0.000698197	37	1.88702E-05	0.13160062	2034
6.26196E-05	10	6.26196E-06	0.043670921	2034
3.0625E-06	2	1.53125E-06	0.010678925	2034
0.003040865	333	9.13173E-06	0.063684671	2035
0.090896462	1623	5.60052E-05	0.39058036	2035
0.056241473	1163	4.8359E-05	0.337255402	2035
0.002441044	224	1.08975E-05	0.075999297	2035
0.008734185	373	2.3416E-05	0.163303508	2035
0.001003454	91	1.1027E-05	0.076902052	2035
0.000449957	56	8.03495E-06	0.056035725	2035
0.000119606	26	4.60023E-06	0.032081979	2035
0.000303784	38	7.99432E-06	0.055752402	2035
0.000289796	33	8.78171E-06	0.061243652	2035
0.000343264	32	1.0727E-05	0.074810097	2035
0.000734595	42	1.74904E-05	0.121977758	2035
0.000697171	37	1.88424E-05	0.131407232	2035
6.25276E-05	10	6.25276E-06	0.043606746	2035
3.058E-06	2	1.529E-06	0.010663233	2035

Final % Reduction

		NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.46%	0.46%
	2000	No Reduct	No Reduct	No Reduct	No Reduct	2.06%	2.06%
	3000	No Reduct	No Reduct	No Reduct	No Reduct	1.32%	1.32%
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.24%	0.24%
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.41%	0.41%
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.06%	0.06%
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%
2012	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.03%	0.03%
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.96%	1.96%
	3000	No Reduct	No Reduct	No Reduct	No Reduct	1.37%	1.37%
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.06%	0.06%
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%
2015	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.96%	1.96%
	3000	No Reduct	No Reduct	No Reduct	No Reduct	1.37%	1.37%
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.06%	0.06%
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%
2016	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%

Drilling Emissions in Lbs/Well Drilled

CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB
2012	001000	Construction	C.1 Well Drilling	889.3949598	52.74499254
2012	002000	Construction	C.1 Well Drilling	1165.785878	68.6565032
2012	003000	Construction	C.1 Well Drilling	1442.176795	84.56801385
2012	004000	Construction	C.1 Well Drilling	1718.567713	100.4795245
2012	005000	Construction	C.1 Well Drilling	2271.349549	132.3025458
2012	006000	Construction	C.1 Well Drilling	5143.498427	247.3684469
2012	007000	Construction	C.1 Well Drilling	6160.153671	295.8400441
2012	008000	Construction	C.1 Well Drilling	7685.136537	368.54744
2012	009000	Construction	C.1 Well Drilling	9210.119402	441.2548359
2012	010000	Construction	C.1 Well Drilling	11751.75751	562.433829
2012	011000	Construction	C.1 Well Drilling	17376.84905	812.3437041
2012	012000	Construction	C.1 Well Drilling	21706.00576	1014.177015
2012	013000	Construction	C.1 Well Drilling	26653.61343	1244.843656
2012	014000	Construction	C.1 Well Drilling	32838.12301	1533.176957
2012	015000	Construction	C.1 Well Drilling	40259.53452	1879.176919
2015	001000	Construction	C.1 Well Drilling	802.5835351	48.79234205
2015	002000	Construction	C.1 Well Drilling	1051.798768	63.53247208
2015	003000	Construction	C.1 Well Drilling	1301.014	78.27260212
2015	004000	Construction	C.1 Well Drilling	1550.229233	93.01273216
2015	005000	Construction	C.1 Well Drilling	2048.659698	122.4929922
2015	006000	Construction	C.1 Well Drilling	5123.472228	266.380754
2015	007000	Construction	C.1 Well Drilling	6137.179107	318.7425144
2015	008000	Construction	C.1 Well Drilling	7657.739424	397.285155
2015	009000	Construction	C.1 Well Drilling	9178.299741	475.8277956
2015	010000	Construction	C.1 Well Drilling	11712.56694	606.7321966
2015	011000	Construction	C.1 Well Drilling	17402.30073	885.5183604
2015	012000	Construction	C.1 Well Drilling	21739.14145	1105.754963
2015	013000	Construction	C.1 Well Drilling	26695.53085	1357.453936
2015	014000	Construction	C.1 Well Drilling	32891.01759	1672.077654
2015	015000	Construction	C.1 Well Drilling	40325.60169	2049.626115
2016	001000	Construction	C.1 Well Drilling	763.3389208	46.54759315
2016	002000	Construction	C.1 Well Drilling	1000.28455	60.61695792
2016	003000	Construction	C.1 Well Drilling	1237.23018	74.68632269
2016	004000	Construction	C.1 Well Drilling	1474.175809	88.75568746
2016	005000	Construction	C.1 Well Drilling	1948.067068	116.894417
2016	006000	Construction	C.1 Well Drilling	5042.783384	260.999804
2016	007000	Construction	C.1 Well Drilling	6040.839654	312.331865
2016	008000	Construction	C.1 Well Drilling	7537.924059	389.3299566
2016	009000	Construction	C.1 Well Drilling	9035.008464	466.3280481
2016	010000	Construction	C.1 Well Drilling	11530.14914	594.6582007
2016	011000	Construction	C.1 Well Drilling	17169.76603	870.1619411
2016	012000	Construction	C.1 Well Drilling	21449.08203	1086.617552
2016	013000	Construction	C.1 Well Drilling	26339.72888	1333.995392
2016	014000	Construction	C.1 Well Drilling	32453.03745	1643.217693
2016	015000	Construction	C.1 Well Drilling	39789.00774	2014.284454
2017	001000	Construction	C.1 Well Drilling	719.1407087	43.99990232

Amount of Drilling Emissions Reduced in Changing 75 hp Engines to Tier 4f in Lbs/Well Drilled

COLB	SOXLB	PM10LB	PM25LB	CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB	COLB	SOXLB
650.4930445	0.766405804	40.20745903	36.99086231	2012	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	52.13380846	47.96310378	2012	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	64.06015789	58.93534526	2012	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	75.98650732	69.90758673	2012	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	99.83920617	91.85206968	2012	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	182.7774876	168.1552886	2012	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	218.447303	200.9715188	2012	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	271.9520261	250.195864	2012	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	325.4567491	299.4202092	2012	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	414.6312876	381.4607846	2012	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	592.2478825	544.8680519	2012	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	739.2027504	680.0665304	2012	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	907.1511709	834.5790772	2012	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	1117.086697	1027.719761	2012	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	1369.009327	1259.488581	2012	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	36.05112075	33.16703109	2015	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	46.72603737	42.98795438	2015	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	57.40095398	52.80887767	2015	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	68.0758706	62.62980095	2015	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	89.42570384	82.27164753	2015	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	183.9929422	169.2735068	2015	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	219.9862565	202.387356	2015	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	273.9762279	252.0581296	2015	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	327.9661993	301.7289033	2015	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	417.9494849	384.5135261	2015	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	602.454831	554.2584445	2015	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	752.061946	691.8969903	2015	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	923.041506	849.1981855	2015	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	1136.765956	1045.82468	2015	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	1393.235296	1281.776472	2015	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	33.77182493	31.07007894	2016	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	43.76261426	40.26160512	2016	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	53.7534036	49.45313131	2016	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	63.74419293	58.64465749	2016	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	83.72577159	77.02770987	2016	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	178.7846588	164.4818861	2016	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	213.7816992	196.6791633	2016	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	266.2772598	244.975079	2016	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	318.7728203	293.2709947	2016	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	406.2654213	373.7641876	2016	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	587.6133242	540.6042583	2016	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	733.5667911	674.8814478	2016	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	900.3707532	828.3410929	2016	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	1108.875706	1020.165649	2016	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	1359.081649	1250.355117	2016	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	31.39998534	28.88798652	2017	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction

		Wells Drilled Each Year	Amount of Drilling Emissions Reduced in Changing 75 hp Engines to Tier 4f in tons/year					
PM10LB	PM25LB		CALYEAR	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB
0.185067061	0.170261721	305	2012	No Reduction	No Reduction	No Reduction	No Reduction	0.02822273	0.02596491
1.072904964	0.987072478	1414	2012	No Reduction	No Reduction	No Reduction	No Reduction	0.75854381	0.69786024
0.847001927	0.779242173	930	2012	No Reduction	No Reduction	No Reduction	No Reduction	0.3938559	0.36234761
0.184914978	0.170121719	174	2012	No Reduction	No Reduction	No Reduction	No Reduction	0.0160876	0.01480059
0.41000007	0.377200063	300	2012	No Reduction	No Reduction	No Reduction	No Reduction	0.06150001	0.05658001
0.102552121	0.094347972	69	2012	No Reduction	No Reduction	No Reduction	No Reduction	0.00353805	0.00325501
0.077255354	0.071074928	44	2012	No Reduction	No Reduction	No Reduction	No Reduction	0.00169962	0.00156365
0.0496831	0.045708446	23	2012	No Reduction	No Reduction	No Reduction	No Reduction	0.00057136	0.00052565
0.084627813	0.077857584	33.00	2012	No Reduction	No Reduction	No Reduction	No Reduction	0.00139636	0.00128465
0.068006464	0.062565954	21	2012	No Reduction	No Reduction	No Reduction	No Reduction	0.00071407	0.00065694
0.096938972	0.089183861	25	2012	No Reduction	No Reduction	No Reduction	No Reduction	0.00121174	0.0011148
0.129944419	0.119548865	27	2012	No Reduction	No Reduction	No Reduction	No Reduction	0.00175425	0.00161391
0.117631198	0.108220705	20	2012	No Reduction	No Reduction	No Reduction	No Reduction	0.00117631	0.00108221
0.043305418	0.039840985	6	2012	No Reduction	No Reduction	No Reduction	No Reduction	0.00012992	0.00011952
0.008820786	0.008115123	1	2012	No Reduction	No Reduction	No Reduction	No Reduction	4.4104E-06	4.0576E-06
0.150295884	0.138272233	323	2015	No Reduction	No Reduction	No Reduction	No Reduction	0.02427279	0.02233097
0.916083449	0.842796698	1575	2015	No Reduction	No Reduction	No Reduction	No Reduction	0.72141572	0.6637024
0.787308225	0.724323939	1128	2015	No Reduction	No Reduction	No Reduction	No Reduction	0.44404184	0.4085187
0.17751669	0.163315296	218	2015	No Reduction	No Reduction	No Reduction	No Reduction	0.01934932	0.01780137
0.380043827	0.34964032	363	2015	No Reduction	No Reduction	No Reduction	No Reduction	0.06897795	0.06345972
0.113885166	0.104774375	89	2015	No Reduction	No Reduction	No Reduction	No Reduction	0.00506789	0.00466246
0.083174576	0.076520612	55	2015	No Reduction	No Reduction	No Reduction	No Reduction	0.0022873	0.00210432
0.046531235	0.04280873	25	2015	No Reduction	No Reduction	No Reduction	No Reduction	0.00058164	0.00053511
0.081778632	0.075236337	37.00	2015	No Reduction	No Reduction	No Reduction	No Reduction	0.0015129	0.00139187
0.09213183	0.084761293	33.00	2015	No Reduction	No Reduction	No Reduction	No Reduction	0.00152018	0.00139856
0.104578932	0.096212625	31	2015	No Reduction	No Reduction	No Reduction	No Reduction	0.00162097	0.0014913
0.171700238	0.157964218	41	2015	No Reduction	No Reduction	No Reduction	No Reduction	0.00351985	0.00323827
0.184263674	0.169522584	36	2015	No Reduction	No Reduction	No Reduction	No Reduction	0.00331675	0.00305141
0.06281716	0.057791787	10	2015	No Reduction	No Reduction	No Reduction	No Reduction	0.00031409	0.00028896
0.015355306	0.014126881	2	2015	No Reduction	No Reduction	No Reduction	No Reduction	1.5355E-05	1.4127E-05
0.140651721	0.129399602	323	2016	No Reduction	No Reduction	No Reduction	No Reduction	0.02271525	0.02089804
0.858208242	0.789551511	1577	2016	No Reduction	No Reduction	No Reduction	No Reduction	0.6766972	0.62256137
0.737841696	0.678814709	1130	2016	No Reduction	No Reduction	No Reduction	No Reduction	0.41688056	0.38353031
0.166053799	0.15276944	218	2016	No Reduction	No Reduction	No Reduction	No Reduction	0.01809986	0.01665187
0.355461588	0.327024661	363	2016	No Reduction	No Reduction	No Reduction	No Reduction	0.06451628	0.05935498
0.110549924	0.101705952	89	2016	No Reduction	No Reduction	No Reduction	No Reduction	0.00491947	0.00452591
0.080747257	0.074287478	55	2016	No Reduction	No Reduction	No Reduction	No Reduction	0.00222055	0.00204291
0.045178102	0.041563848	25	2016	No Reduction	No Reduction	No Reduction	No Reduction	0.00056473	0.00051955
0.079406168	0.073053671	37	2016	No Reduction	No Reduction	No Reduction	No Reduction	0.00146901	0.00135149
0.089465988	0.082308719	33	2016	No Reduction	No Reduction	No Reduction	No Reduction	0.00147619	0.00135809
0.101899851	0.093747871	31	2016	No Reduction	No Reduction	No Reduction	No Reduction	0.00157945	0.00145309
0.16730894	0.153924224	41	2016	No Reduction	No Reduction	No Reduction	No Reduction	0.00342983	0.00315545
0.179556891	0.165192344	36	2016	No Reduction	No Reduction	No Reduction	No Reduction	0.00323202	0.00297346
0.061214219	0.056317081	10	2016	No Reduction	No Reduction	No Reduction	No Reduction	0.00030607	0.00028159
0.014963795	0.013766691	2	2016	No Reduction	No Reduction	No Reduction	No Reduction	1.4964E-05	1.3767E-05
0.130576221	0.120130141	323	2017	No Reduction	No Reduction	No Reduction	No Reduction	0.02108806	0.01940102

VERA Emissions (tons/year)	Wells Drilled Each Year	VERA Emissions (tons/year-well)	VERA Fee Reduction	Year
0.028222727	305			
0.758543809	1414			
0.393855896	930			
0.016087603	174			
0.06150001	300			
0.003538048	69			
0.001699618	44			
0.000571356	23			
0.001396359	33.00			
0.000714068	21			
0.001211737	25			
0.00175425	27			
0.001176312	20			
0.000129916	6			
4.41039E-06	1			
0.024272785	323	7.51479E-05	0.524081748	2015
0.721415716	1575	0.000458042	3.194382987	2015
0.444041839	1128	0.000393654	2.745343781	2015
0.019349319	218	8.87583E-05	0.619000698	2015
0.068977955	363	0.000190022	1.325212824	2015
0.00506789	89	5.69426E-05	0.397117573	2015
0.002287301	55	4.15873E-05	0.290029748	2015
0.00058164	25	2.32656E-05	0.162254416	2015
0.001512905	37.00	4.08893E-05	0.285162088	2015
0.001520175	33.00	4.60659E-05	0.32126369	2015
0.001620973	31	5.22895E-05	0.364666736	2015
0.003519855	41	8.58501E-05	0.598718729	2015
0.003316746	36	9.21318E-05	0.64252743	2015
0.000314086	10	3.14086E-05	0.219043437	2015
1.53553E-05	2	7.67765E-06	0.053543952	2015
0.022715253	323	7.03259E-05	0.49045255	2016
0.676697199	1577	0.000429104	2.992572139	2016
0.416880558	1130	0.000368921	2.572853993	2016
0.018099864	218	8.30269E-05	0.579029598	2016
0.064516278	363	0.000177731	1.239494558	2016
0.004919472	89	5.5275E-05	0.385487584	2016
0.00222055	55	4.03736E-05	0.281565683	2016
0.000564726	25	2.25891E-05	0.15753604	2016
0.001469014	37	3.97031E-05	0.276889309	2016
0.001476189	33	4.4733E-05	0.311967902	2016
0.001579448	31	5.09499E-05	0.355324781	2016
0.003429833	41	8.36545E-05	0.583406274	2016
0.003232024	36	8.97784E-05	0.62611488	2016
0.000306071	10	3.06071E-05	0.213453981	2016
1.49638E-05	2	7.4819E-06	0.052178755	2016
0.02108806	323	6.52881E-05	0.455319284	2017

Amount of Construction - Well Drilling Emissions Reduced in Changing ≤ 75 hp Engines to Tier 4f							
Year	NOX	ROG	CO	SOX	PM10	PM25	VERA Fee Reduction Per Well
2015	0.00	0.00	0.00	0.00	1.30	1.19	$11.74
2016	0.00	0.00	0.00	0.00	1.22	1.12	$11.12
2017	0.00	0.00	0.00	0.00	1.14	1.05	$10.51
2018	0.00	0.00	0.00	0.00	0.94	0.87	$9.04
2019	0.00	0.00	0.00	0.00	0.85	0.78	$7.74
2020	0.00	0.00	0.00	0.00	0.72	0.66	$6.79
2021	0.00	0.00	0.00	0.00	0.67	0.62	$6.38
2022	0.00	0.00	0.00	0.00	0.51	0.47	$5.23
2023	0.00	0.00	0.00	0.00	0.45	0.41	$4.79
2024	0.00	0.00	0.00	0.00	0.40	0.37	$4.44
2025	0.00	0.00	0.00	0.00	0.36	0.33	$4.15
2026	0.00	0.00	0.00	0.00	0.33	0.30	$3.20
2027	0.00	0.00	0.00	0.00	0.30	0.28	$3.01
2028	0.00	0.00	0.00	0.00	0.28	0.26	$2.84
2029	0.00	0.00	0.00	0.00	0.27	0.25	$2.77
2030	0.00	0.00	0.00	0.00	0.27	0.25	$2.77
2031	0.00	0.00	0.00	0.00	0.27	0.25	$2.77
2032	0.00	0.00	0.00	0.00	0.27	0.25	$2.77
2033	0.00	0.00	0.00	0.00	0.27	0.25	$2.77
2034	0.00	0.00	0.00	0.00	0.27	0.25	$2.77
2035	0.00	0.00	0.00	0.00	0.27	0.25	$2.77
						Average:	**$5.26**

	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.96%	1.96%	2017	002000	Construction	C.1 Well Drilling	942.654357	57.33159172
	3000	No Reduct	No Reduct	No Reduct	No Reduct	1.37%	1.37%	2017	003000	Construction	C.1 Well Drilling	1166.168005	70.66328112
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2017	004000	Construction	C.1 Well Drilling	1389.681653	83.99497053
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%	2017	005000	Construction	C.1 Well Drilling	1836.70895	110.6583493
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.06%	0.06%	2017	006000	Construction	C.1 Well Drilling	4995.849988	257.5406623
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2017	007000	Construction	C.1 Well Drilling	5985.300033	308.2478279
2017	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2017	008000	Construction	C.1 Well Drilling	7469.4751	384.3085764
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2017	009000	Construction	C.1 Well Drilling	8953.650168	460.3693248
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2017	010000	Construction	C.1 Well Drilling	11427.27528	587.1372389
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2017	011000	Construction	C.1 Well Drilling	17043.46992	860.972981
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2017	012000	Construction	C.1 Well Drilling	21292.18745	1075.215018
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2017	013000	Construction	C.1 Well Drilling	26147.86464	1320.06306
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2017	014000	Construction	C.1 Well Drilling	32217.46112	1626.123112
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2017	015000	Construction	C.1 Well Drilling	39500.9769	1993.395175
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%	2018	001000	Construction	C.1 Well Drilling	618.2650511	38.07086535
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.96%	1.96%	2018	002000	Construction	C.1 Well Drilling	810.1939548	49.62555854
	3000	No Reduct	No Reduct	No Reduct	No Reduct	1.37%	1.37%	2018	003000	Construction	C.1 Well Drilling	1002.122858	61.18025173
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2018	004000	Construction	C.1 Well Drilling	1194.051762	72.73494492
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%	2018	005000	Construction	C.1 Well Drilling	1577.909569	95.84433131
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.06%	0.06%	2018	006000	Construction	C.1 Well Drilling	4823.38249	244.8783498
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2018	007000	Construction	C.1 Well Drilling	5779.56332	293.1726627
2018	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2018	008000	Construction	C.1 Well Drilling	7213.834565	365.6141319
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2018	009000	Construction	C.1 Well Drilling	8648.10581	438.0556011
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2018	010000	Construction	C.1 Well Drilling	11038.55788	558.7913832
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2018	011000	Construction	C.1 Well Drilling	16557.08617	825.6487898
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2018	012000	Construction	C.1 Well Drilling	20685.73813	1031.209291
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2018	013000	Construction	C.1 Well Drilling	25404.19751	1266.135578
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2018	014000	Construction	C.1 Well Drilling	31302.27173	1559.793436
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2018	015000	Construction	C.1 Well Drilling	38379.9608	1912.182867
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%	2019	001000	Construction	C.1 Well Drilling	569.7563561	35.5442175
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.96%	1.96%	2019	002000	Construction	C.1 Well Drilling	746.8582133	46.37616294
	3000	No Reduct	No Reduct	No Reduct	No Reduct	1.37%	1.37%	2019	003000	Construction	C.1 Well Drilling	923.9600705	57.20810837
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2019	004000	Construction	C.1 Well Drilling	1101.061928	68.04005381
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%	2019	005000	Construction	C.1 Well Drilling	1455.265642	89.70394468
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.06%	0.06%	2019	006000	Construction	C.1 Well Drilling	4096.004555	186.2976253
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2019	007000	Construction	C.1 Well Drilling	4907.51531	222.9474742
2019	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2019	008000	Construction	C.1 Well Drilling	6124.781441	277.9222474
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2019	009000	Construction	C.1 Well Drilling	7342.047572	332.8970206
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2019	010000	Construction	C.1 Well Drilling	9370.824458	424.5216427
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2019	011000	Construction	C.1 Well Drilling	14035.91596	622.1002856
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2019	012000	Construction	C.1 Well Drilling	17535.28226	776.8632618
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2019	013000	Construction	C.1 Well Drilling	21534.55802	953.7352345
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2019	014000	Construction	C.1 Well Drilling	26533.65273	1174.8252
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2019	015000	Construction	C.1 Well Drilling	32532.56637	1440.133159
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%	2020	001000	Construction	C.1 Well Drilling	473.7173815	31.85752448
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.96%	1.96%	2020	002000	Construction	C.1 Well Drilling	619.9858554	41.56484144
	3000	No Reduct	No Reduct	No Reduct	No Reduct	1.37%	1.37%	2020	003000	Construction	C.1 Well Drilling	766.2543294	51.27215841
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2020	004000	Construction	C.1 Well Drilling	912.5228033	60.97947537
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%	2020	005000	Construction	C.1 Well Drilling	1205.059751	80.39410929
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.06%	0.06%	2020	006000	Construction	C.1 Well Drilling	4023.834188	181.5986855

855.7315035	1.008083983	40.71607697	37.45879081	2017	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	50.0321686	46.02959511	2017	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	59.34826023	54.60039941	2017	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	77.98044349	71.74200801	2017	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	174.9119482	160.9189923	2017	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	209.2039957	192.4676761	2017	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	260.6420671	239.7907017	2017	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	312.0801384	287.1137273	2017	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	397.8102572	365.9854367	2017	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	577.269724	531.0881461	2017	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	720.7242274	663.0662892	2017	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	884.6722312	813.8984527	2017	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	1089.607236	1002.438657	2017	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	1335.529242	1228.686903	2017	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	25.96951865	23.89195716	2018	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	33.66149016	30.96857094	2018	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	41.35346166	38.04518473	2018	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	49.04543317	45.12179851	2018	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	64.42937617	59.27502608	2018	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	163.1964128	150.1406998	2018	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	195.2569746	179.6364166	2018	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	243.3478172	223.8799918	2018	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	291.4386598	268.123567	2018	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	371.5900642	341.862859	2018	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	544.5728937	501.0070622	2018	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	679.9927161	625.5932988	2018	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	834.7582274	767.9775692	2018	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	1028.215117	945.9579072	2018	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	1260.363384	1159.534313	2018	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	23.45834049	21.58167325	2019	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	30.43243937	27.99784422	2019	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	37.40653826	34.4140152	2019	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	44.38063715	40.83018618	2019	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	58.32883492	53.66252813	2019	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	124.3601064	114.4112979	2019	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	148.7249189	136.8269254	2019	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	185.2721377	170.4503667	2019	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	221.8193565	204.0738079	2019	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	282.7313878	260.1128767	2019	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	411.1971285	378.3013582	2019	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	513.3623997	472.2934077	2019	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	630.1227096	579.7128928	2019	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	776.073097	713.9872492	2019	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	951.2135618	875.1164769	2019	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	19.78680255	18.20385834	2020	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	25.64783746	23.59601046	2020	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	31.50887236	28.98816257	2020	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	37.36990727	34.38031469	2020	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	49.09197709	45.16461892	2020	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	119.4004227	109.8483889	2020	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction

0.79928131	0.735338739	1581	2017	No Reduction	No Reduction	No Reduction	No Reduction	0.63183188	0.58128527
0.686332943	0.631426632	1131	2017	No Reduction	No Reduction	No Reduction	No Reduction	0.38812128	0.35707176
0.155077194	0.142670967	219	2017	No Reduction	No Reduction	No Reduction	No Reduction	0.01698095	0.01562247
0.330569933	0.304124338	363	2017	No Reduction	No Reduction	No Reduction	No Reduction	0.05999844	0.05519857
0.107992055	0.099352712	89	2017	No Reduction	No Reduction	No Reduction	No Reduction	0.00480565	0.0044212
0.078898974	0.072587058	55	2017	No Reduction	No Reduction	No Reduction	No Reduction	0.00216972	0.00199614
0.04415527	0.040622842	25	2017	No Reduction	No Reduction	No Reduction	No Reduction	0.00055194	0.00050779
0.077621712	0.071411971	37	2017	No Reduction	No Reduction	No Reduction	No Reduction	0.001436	0.00132112
0.08747183	0.080474093	33	2017	No Reduction	No Reduction	No Reduction	No Reduction	0.00144329	0.00132782
0.09995507	0.091958672	31	2017	No Reduction	No Reduction	No Reduction	No Reduction	0.0015493	0.00142536
0.164131802	0.151001258	41	2017	No Reduction	No Reduction	No Reduction	No Reduction	0.0033647	0.00309553
0.176159969	0.162067175	36	2017	No Reduction	No Reduction	No Reduction	No Reduction	0.00317088	0.00291721
0.060059754	0.055254974	10	2017	No Reduction	No Reduction	No Reduction	No Reduction	0.0003003	0.00027627
0.014682288	0.013507705	2	2017	No Reduction	No Reduction	No Reduction	No Reduction	1.4682E-05	1.3508E-05
0.108498694	0.099818813	325	2018	No Reduction	No Reduction	No Reduction	No Reduction	0.01763104	0.01622056
0.660217145	0.607399718	1582	2018	No Reduction	No Reduction	No Reduction	No Reduction	0.52223176	0.48045318
0.567426759	0.522032886	1133	2018	No Reduction	No Reduction	No Reduction	No Reduction	0.32144726	0.29573163
0.127962771	0.117725707	219	2018	No Reduction	No Reduction	No Reduction	No Reduction	0.01401192	0.01289096
0.273464814	0.251587628	364	2018	No Reduction	No Reduction	No Reduction	No Reduction	0.0497706	0.04578895
0.100606967	0.09255843	89	2018	No Reduction	No Reduction	No Reduction	No Reduction	0.00447701	0.00411885
0.073528052	0.067645809	55	2018	No Reduction	No Reduction	No Reduction	No Reduction	0.00202202	0.00186026
0.04116334	0.037870267	25	2018	No Reduction	No Reduction	No Reduction	No Reduction	0.00051454	0.00047338
0.072378465	0.066588184	37	2018	No Reduction	No Reduction	No Reduction	No Reduction	0.001339	0.00123188
0.081583334	0.075056676	33	2018	No Reduction	No Reduction	No Reduction	No Reduction	0.00134613	0.00123844
0.094151487	0.086619376	31	2018	No Reduction	No Reduction	No Reduction	No Reduction	0.00145935	0.0013426
0.154622609	0.1422528	41	2018	No Reduction	No Reduction	No Reduction	No Reduction	0.00316976	0.00291618
0.165970406	0.152692778	36	2018	No Reduction	No Reduction	No Reduction	No Reduction	0.00298747	0.00274847
0.056590389	0.052063158	10	2018	No Reduction	No Reduction	No Reduction	No Reduction	0.00028295	0.00026032
0.013835066	0.01272826	2	2018	No Reduction	No Reduction	No Reduction	No Reduction	1.3835E-05	1.2728E-05
0.097859727	0.090030962	325	2019	No Reduction	No Reduction	No Reduction	No Reduction	0.01590221	0.01463003
0.597493294	0.549693781	1586	2019	No Reduction	No Reduction	No Reduction	No Reduction	0.47381218	0.43590717
0.51294962	0.471913893	1134	2019	No Reduction	No Reduction	No Reduction	No Reduction	0.29084243	0.26757518
0.1156178	0.106368338	219	2019	No Reduction	No Reduction	No Reduction	No Reduction	0.01266015	0.01164733
0.247878247	0.228047987	365	2019	No Reduction	No Reduction	No Reduction	No Reduction	0.04523778	0.04161876
0.076549902	0.070425925	89	2019	No Reduction	No Reduction	No Reduction	No Reduction	0.00340647	0.00313395
0.055921183	0.05144749	55	2019	No Reduction	No Reduction	No Reduction	No Reduction	0.00153783	0.00141481
0.031292436	0.028789037	25	2019	No Reduction	No Reduction	No Reduction	No Reduction	0.00039116	0.00035986
0.055005707	0.050605248	37	2019	No Reduction	No Reduction	No Reduction	No Reduction	0.00101761	0.0009362
0.061980844	0.057022383	33	2019	No Reduction	No Reduction	No Reduction	No Reduction	0.00102268	0.00094087
0.070985124	0.065306319	31	2019	No Reduction	No Reduction	No Reduction	No Reduction	0.00110027	0.00101225
0.116557144	0.107232573	41	2019	No Reduction	No Reduction	No Reduction	No Reduction	0.00238942	0.00219827
0.125095356	0.11508773	36	2019	No Reduction	No Reduction	No Reduction	No Reduction	0.00225172	0.00207158
0.04264886	0.039236951	10	2019	No Reduction	No Reduction	No Reduction	No Reduction	0.00021324	0.00019618
0.010425805	0.00959174	2	2019	No Reduction	No Reduction	No Reduction	No Reduction	1.0426E-05	9.5917E-06
0.082672994	0.076059165	326	2020	No Reduction	No Reduction	No Reduction	No Reduction	0.0134757	0.01239764
0.503432706	0.463158048	1588	2020	No Reduction	No Reduction	No Reduction	No Reduction	0.39972557	0.36774749
0.432187718	0.397612904	1136	2020	No Reduction	No Reduction	No Reduction	No Reduction	0.24548262	0.22584413
0.097651483	0.089839332	220	2020	No Reduction	No Reduction	No Reduction	No Reduction	0.01074166	0.00988233
0.208311251	0.191646351	365	2020	No Reduction	No Reduction	No Reduction	No Reduction	0.0380168	0.03497546
0.073386556	0.067515646	89	2020	No Reduction	No Reduction	No Reduction	No Reduction	0.0032657	0.00300445

0.631831875	1581	0.000399641	2.787093927	2017
0.388121279	1131	0.000343166	2.393242974	2017
0.016980953	219	7.75386E-05	0.540754176	2017
0.059998443	363	0.000165285	1.152697358	2017
0.004805646	89	5.3996E-05	0.376568296	2017
0.002169722	55	3.94495E-05	0.275120723	2017
0.000551941	25	2.20776E-05	0.153969425	2017
0.001436002	37	3.88109E-05	0.270666909	2017
0.001443285	33	4.37359E-05	0.305014272	2017
0.001549304	31	4.99775E-05	0.348543328	2017
0.003364702	41	8.20659E-05	0.572327594	2017
0.003170879	36	8.808E-05	0.614269811	2017
0.000300299	10	3.00299E-05	0.209428364	2017
1.46823E-05	2	7.34114E-06	0.051197139	2017
0.017631038	325	5.42493E-05	0.378334945	2018
0.522231761	1582	0.000330109	2.302177183	2018
0.321447259	1133	0.000283713	1.978617108	2018
0.014011923	219	6.39814E-05	0.446206183	2018
0.049770596	364	0.000136732	0.953571806	2018
0.00447701	89	5.03035E-05	0.350816494	2018
0.002022021	55	3.6764E-05	0.256392316	2018
0.000514542	25	2.05817E-05	0.143536566	2018
0.001339002	37	3.61892E-05	0.252383707	2018
0.001346125	33	4.07917E-05	0.284481086	2018
0.001459348	31	4.70757E-05	0.328306237	2018
0.003169763	41	7.73113E-05	0.539169038	2018
0.002987467	36	8.29852E-05	0.578738807	2018
0.000282952	10	2.82952E-05	0.197330686	2018
1.38351E-05	2	6.91753E-06	0.048242876	2018
0.015902206	325	4.89299E-05	0.341236869	2019
0.473812182	1586	0.000298747	2.083459117	2019
0.290842434	1134	0.000256475	1.788655324	2019
0.012660149	219	5.78089E-05	0.403159269	2019
0.04523778	365	0.000123939	0.864351449	2019
0.003406471	89	3.8275E-05	0.266929508	2019
0.001537833	55	2.79606E-05	0.194997164	2019
0.000391155	25	1.56462E-05	0.109116723	2019
0.001017606	37	2.75029E-05	0.191804901	2019
0.001022684	33	3.09904E-05	0.216127204	2019
0.001100269	31	3.54926E-05	0.247525127	2019
0.002389421	41	5.82786E-05	0.406434763	2019
0.002251716	36	6.25477E-05	0.436207506	2019
0.000213244	10	2.13244E-05	0.148716575	2019
1.04258E-05	2	5.2129E-06	0.036354783	2019
0.013475698	326	4.13365E-05	0.288280729	2020
0.399725569	1588	0.000251716	1.755469847	2020
0.245482624	1136	0.000216094	1.507038571	2020
0.010741663	220	4.88257E-05	0.340510722	2020
0.038016803	365	0.000104156	0.726381332	2020
0.003265702	89	3.66933E-05	0.255898921	2020

	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2020	007000	Construction	C.1 Well Drilling	4821.618634	217.3713079
2020	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2020	008000	Construction	C.1 Well Drilling	6018.295302	271.0302415
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2020	009000	Construction	C.1 Well Drilling	7214.971971	324.6891751
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2020	010000	Construction	C.1 Well Drilling	9209.433085	414.1207311
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2020	011000	Construction	C.1 Well Drilling	13837.57353	609.3806479
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2020	012000	Construction	C.1 Well Drilling	17288.23892	761.0419164
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2020	013000	Construction	C.1 Well Drilling	21231.85651	934.3690805
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2020	014000	Construction	C.1 Well Drilling	26161.3785	1151.028036
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2020	015000	Construction	C.1 Well Drilling	32076.80488	1411.018782
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%	2021	001000	Construction	C.1 Well Drilling	454.0675786	30.83737278
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.96%	1.96%	2021	002000	Construction	C.1 Well Drilling	594.768133	40.29517785
	3000	No Reduct	No Reduct	No Reduct	No Reduct	1.37%	1.37%	2021	003000	Construction	C.1 Well Drilling	735.4686874	49.75298292
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2021	004000	Construction	C.1 Well Drilling	876.1692418	59.21078799
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%	2021	005000	Construction	C.1 Well Drilling	1157.570351	78.12639812
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.06%	0.06%	2021	006000	Construction	C.1 Well Drilling	3979.529499	180.8457994
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2021	007000	Construction	C.1 Well Drilling	4769.042215	216.5221677
2021	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2021	008000	Construction	C.1 Well Drilling	5953.31129	270.0367203
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2021	009000	Construction	C.1 Well Drilling	7137.580365	323.5512728
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2021	010000	Construction	C.1 Well Drilling	9111.362157	412.7421937
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2021	011000	Construction	C.1 Well Drilling	13724.00099	609.9411943
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2021	012000	Construction	C.1 Well Drilling	17147.00976	761.8105034
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2021	013000	Construction	C.1 Well Drilling	21059.01979	935.3754282
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2021	014000	Construction	C.1 Well Drilling	25949.03232	1152.331584
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2021	015000	Construction	C.1 Well Drilling	31817.04735	1412.678971
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%	2022	001000	Construction	C.1 Well Drilling	341.9227276	25.77051109
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.97%	1.97%	2022	002000	Construction	C.1 Well Drilling	446.6023834	33.65855547
	3000	No Reduct	No Reduct	No Reduct	No Reduct	1.37%	1.37%	2022	003000	Construction	C.1 Well Drilling	551.2820392	41.54659984
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2022	004000	Construction	C.1 Well Drilling	655.961695	49.43464421
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%	2022	005000	Construction	C.1 Well Drilling	865.3210066	65.21073296
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.06%	0.06%	2022	006000	Construction	C.1 Well Drilling	3920.329107	178.9607315
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2022	007000	Construction	C.1 Well Drilling	4698.818176	214.3316023
2022	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2022	008000	Construction	C.1 Well Drilling	5866.55178	267.3879083
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2022	009000	Construction	C.1 Well Drilling	7034.285384	320.4442144
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2022	010000	Construction	C.1 Well Drilling	8980.508058	408.8713912
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2022	011000	Construction	C.1 Well Drilling	13571.14572	607.5116973
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2022	012000	Construction	C.1 Well Drilling	16956.96121	758.8630271
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2022	013000	Construction	C.1 Well Drilling	20826.46463	931.8359755
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2022	014000	Construction	C.1 Well Drilling	25663.3439	1148.052161
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2022	015000	Construction	C.1 Well Drilling	31467.59903	1407.511583
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%	2023	001000	Construction	C.1 Well Drilling	313.9175079	24.67658143
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.97%	1.97%	2023	002000	Construction	C.1 Well Drilling	410.0209101	32.26580395
	3000	No Reduct	No Reduct	No Reduct	No Reduct	1.37%	1.37%	2023	003000	Construction	C.1 Well Drilling	506.1243122	39.85502648
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2023	004000	Construction	C.1 Well Drilling	602.2277144	47.444249
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%	2023	005000	Construction	C.1 Well Drilling	794.4345188	62.62269405
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.06%	0.06%	2023	006000	Construction	C.1 Well Drilling	3880.922951	178.4587114
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2023	007000	Construction	C.1 Well Drilling	4651.986081	213.7686709
2023	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2023	008000	Construction	C.1 Well Drilling	5808.580775	266.7336101
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2023	009000	Construction	C.1 Well Drilling	6965.17547	319.6985494
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2023	010000	Construction	C.1 Well Drilling	8892.833295	407.9734481
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2023	011000	Construction	C.1 Well Drilling	13468.3814	608.4672392

4747.390168	5.585171161	142.8397677	131.4125863	2020	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	177.9987851	163.7588823	2020	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	213.1578026	196.1051784	2020	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	271.756165	250.0156718	2020	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	397.7571575	365.9365849	2020	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	496.6455224	456.9138806	2020	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	609.6607966	560.8879329	2020	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	750.9298894	690.8554982	2020	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	920.4528007	846.8165766	2020	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	18.29023578	16.82701692	2021	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	23.74861487	21.84872568	2021	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	29.20699396	26.87043444	2021	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	34.66537304	31.8921432	2021	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	45.58213122	41.93556072	2021	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	115.4316973	106.1971615	2021	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	138.135017	127.0842157	2021	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	172.1899967	158.4147969	2021	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	206.2449763	189.7453782	2021	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	263.0032757	241.9630136	2021	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	387.1571718	356.184598	2021	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	483.4676901	444.7902749	2021	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	593.5368539	546.0539056	2021	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	731.1233086	672.6334439	2021	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	896.2270543	824.5288899	2021	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	13.75387874	12.65356844	2022	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	17.82438787	16.39843684	2022	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	21.89489701	20.14330525	2022	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	25.96540614	23.88817365	2022	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	34.10642441	31.37791045	2022	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	110.3747683	101.5447868	2022	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	132.1412517	121.5699516	2022	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	164.7909768	151.6076987	2022	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	197.4407019	181.6454457	2022	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	251.8569104	231.7083575	2022	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	373.7364222	343.8375084	2022	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	466.7849399	429.4421447	2022	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	573.126103	527.2760147	2022	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	706.0525568	649.5683523	2022	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	865.5643015	796.3191573	2022	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	12.11604117	11.14675788	2023	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	15.71365812	14.45656547	2023	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	19.31127507	17.76637307	2023	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	22.90889202	21.07618066	2023	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	30.10412592	27.69579585	2023	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	106.7825202	98.23991859	2023	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	127.8743862	117.6444353	2023	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	159.5121851	146.7512103	2023	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	191.1499841	175.8579854	2023	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	243.879649	224.3692771	2023	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	363.9836776	334.8649834	2023	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction

0.053627658	0.049337447	55	2020	No Reduction	No Reduction	No Reduction	No Reduction	0.00147476	0.00135678
0.030018804	0.027617296	25	2020	No Reduction	No Reduction	No Reduction	No Reduction	0.00037524	0.00034522
0.052778451	0.048556172	37	2020	No Reduction	No Reduction	No Reduction	No Reduction	0.0009764	0.00089829
0.059485341	0.05472652	33	2020	No Reduction	No Reduction	No Reduction	No Reduction	0.00098151	0.00090299
0.068561824	0.063076883	31	2020	No Reduction	No Reduction	No Reduction	No Reduction	0.00106271	0.00097769
0.112592239	0.10358486	41	2020	No Reduction	No Reduction	No Reduction	No Reduction	0.00230814	0.00212349
0.120851324	0.111183221	36	2020	No Reduction	No Reduction	No Reduction	No Reduction	0.00217532	0.0020013
0.041205129	0.037908719	10	2020	No Reduction	No Reduction	No Reduction	No Reduction	0.00020603	0.00018954
0.010073495	0.009267615	2	2020	No Reduction	No Reduction	No Reduction	No Reduction	1.0073E-05	9.2676E-06
0.076305425	0.070201001	326	2021	No Reduction	No Reduction	No Reduction	No Reduction	0.01243778	0.01144276
0.466040494	0.428757216	1590	2021	No Reduction	No Reduction	No Reduction	No Reduction	0.37050219	0.34086199
0.401069727	0.368984338	1139	2021	No Reduction	No Reduction	No Reduction	No Reduction	0.22840921	0.21013658
0.090448375	0.083212475	220	2021	No Reduction	No Reduction	No Reduction	No Reduction	0.00994932	0.00915337
0.193656965	0.178164407	366	2021	No Reduction	No Reduction	No Reduction	No Reduction	0.03543922	0.03260409
0.070840855	0.065173601	89	2021	No Reduction	No Reduction	No Reduction	No Reduction	0.00315242	0.00290023
0.051783518	0.047640838	55	2021	No Reduction	No Reduction	No Reduction	No Reduction	0.00142405	0.00131012
0.028995615	0.026675962	25	2021	No Reduction	No Reduction	No Reduction	No Reduction	0.00036245	0.00033345
0.050990216	0.046910996	37	2021	No Reduction	No Reduction	No Reduction	No Reduction	0.00094332	0.00086785
0.057483047	0.052884409	33	2021	No Reduction	No Reduction	No Reduction	No Reduction	0.00094847	0.00087259
0.066634591	0.061303829	31	2021	No Reduction	No Reduction	No Reduction	No Reduction	0.00103284	0.00095021
0.109440346	0.100685118	41	2021	No Reduction	No Reduction	No Reduction	No Reduction	0.00224353	0.00206404
0.117478638	0.10808035	36	2021	No Reduction	No Reduction	No Reduction	No Reduction	0.00211462	0.00194545
0.040058122	0.036853473	10	2021	No Reduction	No Reduction	No Reduction	No Reduction	0.00020029	0.00018427
0.009793654	0.009010162	2	2021	No Reduction	No Reduction	No Reduction	No Reduction	9.7937E-06	9.0102E-06
0.057294159	0.052710634	326	2022	No Reduction	No Reduction	No Reduction	No Reduction	0.00933895	0.00859183
0.350358456	0.32232975	1595	2022	No Reduction	No Reduction	No Reduction	No Reduction	0.27941087	0.25705798
0.300473449	0.276435715	1140	2022	No Reduction	No Reduction	No Reduction	No Reduction	0.17126987	0.15756836
0.067647081	0.062235292	220	2022	No Reduction	No Reduction	No Reduction	No Reduction	0.00744118	0.00684588
0.144685075	0.133110268	366	2022	No Reduction	No Reduction	No Reduction	No Reduction	0.02647737	0.02435918
0.067635945	0.062225083	89	2022	No Reduction	No Reduction	No Reduction	No Reduction	0.0030098	0.00276902
0.049462405	0.045505414	55	2022	No Reduction	No Reduction	No Reduction	No Reduction	0.00136022	0.0012514
0.027708109	0.025491457	25	2022	No Reduction	No Reduction	No Reduction	No Reduction	0.00034635	0.00031864
0.048740413	0.044841178	37	2022	No Reduction	No Reduction	No Reduction	No Reduction	0.0009017	0.00082956
0.054964406	0.050567259	33	2022	No Reduction	No Reduction	No Reduction	No Reduction	0.00090691	0.00083436
0.06422837	0.059090105	31	2022	No Reduction	No Reduction	No Reduction	No Reduction	0.00099554	0.0009159
0.10550569	0.097065235	41	2022	No Reduction	No Reduction	No Reduction	No Reduction	0.00216287	0.00198984
0.113268839	0.104207334	36	2022	No Reduction	No Reduction	No Reduction	No Reduction	0.00203884	0.00187573
0.03862656	0.035536435	10	2022	No Reduction	No Reduction	No Reduction	No Reduction	0.00019313	0.00017768
0.009444416	0.008688862	2	2022	No Reduction	No Reduction	No Reduction	No Reduction	9.4444E-06	8.6889E-06
0.050550572	0.046506533	327	2023	No Reduction	No Reduction	No Reduction	No Reduction	0.00826502	0.00760382
0.308987839	0.284268787	1598	2023	No Reduction	No Reduction	No Reduction	No Reduction	0.24688128	0.22713076
0.264853038	0.24366492	1141	2023	No Reduction	No Reduction	No Reduction	No Reduction	0.15109866	0.13901084
0.059865641	0.05507637	221	2023	No Reduction	No Reduction	No Reduction	No Reduction	0.00661515	0.00608594
0.127515678	0.117314423	366	2023	No Reduction	No Reduction	No Reduction	No Reduction	0.02333537	0.02146854
0.065336813	0.060109881	89	2023	No Reduction	No Reduction	No Reduction	No Reduction	0.00290749	0.00267489
0.047793672	0.043970179	55	2023	No Reduction	No Reduction	No Reduction	No Reduction	0.00131433	0.00120918
0.026780418	0.024637981	25	2023	No Reduction	No Reduction	No Reduction	No Reduction	0.00033476	0.00030797
0.04711691	0.043347555	37	2023	No Reduction	No Reduction	No Reduction	No Reduction	0.00087166	0.00080193
0.053143879	0.048892374	33	2023	No Reduction	No Reduction	No Reduction	No Reduction	0.00087687	0.00080672
0.062458767	0.05746207	31	2023	No Reduction	No Reduction	No Reduction	No Reduction	0.00096811	0.00089066

0.001474761	55	2.68138E-05	0.186999644	2020
0.000375235	25	1.50094E-05	0.104675569	2020
0.000976401	37	2.63892E-05	0.184038457	2020
0.000981508	33	2.97427E-05	0.207425385	2020
0.001062708	31	3.42809E-05	0.239075081	2020
0.002308141	41	5.62961E-05	0.392609138	2020
0.002175324	36	6.04257E-05	0.421408568	2020
0.000206026	10	2.06026E-05	0.143682285	2020
1.00735E-05	2	5.03675E-06	0.035126278	2020
0.012437784	326	3.81527E-05	0.266077018	2021
0.370502193	1590	0.00023302	1.625083204	2021
0.228409209	1139	0.000200535	1.398530137	2021
0.009949321	220	4.52242E-05	0.315393485	2021
0.035439225	366	9.68285E-05	0.675281837	2021
0.003152418	89	3.54204E-05	0.247022061	2021
0.001424047	55	2.58918E-05	0.180569127	2021
0.000362445	25	1.44978E-05	0.101107711	2021
0.000943319	37	2.54951E-05	0.177802882	2021
0.00094847	33	2.87415E-05	0.200443384	2021
0.001032836	31	3.33173E-05	0.23235482	2021
0.002243527	41	5.47202E-05	0.381618486	2021
0.002114615	36	5.87393E-05	0.409648012	2021
0.000200291	10	2.00291E-05	0.139682672	2021
9.79365E-06	2	4.89683E-06	0.034150473	2021
0.009338948	326	2.86471E-05	0.199784733	2022
0.279410868	1595	0.000175179	1.221699935	2022
0.171269866	1140	0.000150237	1.047750915	2022
0.007441179	220	3.38235E-05	0.23588537	2022
0.026477369	366	7.23425E-05	0.504516855	2022
0.0030098	89	3.3818E-05	0.235846541	2022
0.001360216	55	2.47312E-05	0.172475406	2022
0.000346351	25	1.38541E-05	0.096618176	2022
0.000901698	37	2.43702E-05	0.16995782	2022
0.000906913	33	2.74822E-05	0.191660884	2022
0.00099554	31	3.21142E-05	0.223964326	2022
0.002162867	41	5.27528E-05	0.367898342	2022
0.002038839	36	5.66344E-05	0.394968441	2022
0.000193133	10	1.93133E-05	0.134690815	2022
9.44442E-06	2	4.72221E-06	0.032932679	2022
0.008265019	327	2.52753E-05	0.176269844	2023
0.246881284	1598	0.000154494	1.077440595	2023
0.151098658	1141	0.000132427	0.923542543	2023
0.006615153	221	2.99328E-05	0.208751491	2023
0.023335369	366	6.37578E-05	0.444647168	2023
0.002907488	89	3.26684E-05	0.227829467	2023
0.001314326	55	2.38968E-05	0.166656533	2023
0.000334755	25	1.33902E-05	0.093383316	2023
0.000871663	37	2.35585E-05	0.164296666	2023
0.000876874	33	2.65719E-05	0.185312705	2023
0.000968111	31	3.12294E-05	0.21779372	2023

	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2023	012000	Construction	C.1 Well Drilling	16829.07493	760.1068205
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2023	013000	Construction	C.1 Well Drilling	20669.86753	933.4091991
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2023	014000	Construction	C.1 Well Drilling	25470.85828	1150.037172
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2023	015000	Construction	C.1 Well Drilling	31232.04718	1409.99074
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%	2024	001000	Construction	C.1 Well Drilling	279.1916833	23.5733669
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.96%	1.96%	2024	002000	Construction	C.1 Well Drilling	364.3215201	30.8390318
	3000	No Reduct	No Reduct	No Reduct	No Reduct	1.37%	1.37%	2024	003000	Construction	C.1 Well Drilling	449.451357	38.1046967
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2024	004000	Construction	C.1 Well Drilling	534.5811938	45.3703616
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.43%	0.43%	2024	005000	Construction	C.1 Well Drilling	704.8408675	59.9016914
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.06%	0.06%	2024	006000	Construction	C.1 Well Drilling	3872.359814	180.2189412
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2024	007000	Construction	C.1 Well Drilling	4642.071342	215.9074549
2024	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2024	008000	Construction	C.1 Well Drilling	5796.638635	269.4402256
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2024	009000	Construction	C.1 Well Drilling	6951.205927	322.9729963
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2024	010000	Construction	C.1 Well Drilling	8875.484748	412.1942808
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2024	011000	Construction	C.1 Well Drilling	13456.8761	615.976267
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2024	012000	Construction	C.1 Well Drilling	16815.14459	769.5262407
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2024	013000	Construction	C.1 Well Drilling	20653.16571	945.0119249
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2024	014000	Construction	C.1 Well Drilling	25450.69211	1164.36903
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2024	015000	Construction	C.1 Well Drilling	31207.7238	1427.597556
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%	2025	001000	Construction	C.1 Well Drilling	259.2889181	22.75828312
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.96%	1.96%	2025	002000	Construction	C.1 Well Drilling	338.491929	29.80596118
	3000	No Reduct	No Reduct	No Reduct	No Reduct	1.37%	1.37%	2025	003000	Construction	C.1 Well Drilling	417.6949398	36.85363923
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2025	004000	Construction	C.1 Well Drilling	496.8979507	43.90131728
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%	2025	005000	Construction	C.1 Well Drilling	655.3039724	57.99667339
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.06%	0.06%	2025	006000	Construction	C.1 Well Drilling	3854.5428	181.183546
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2025	007000	Construction	C.1 Well Drilling	4621.115383	217.0972054
2025	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2025	008000	Construction	C.1 Well Drilling	5770.974257	270.9676945
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2025	009000	Construction	C.1 Well Drilling	6920.833131	324.8381836
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2025	010000	Construction	C.1 Well Drilling	8837.264589	414.6223321
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2025	011000	Construction	C.1 Well Drilling	13418.10925	621.1381394
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2025	012000	Construction	C.1 Well Drilling	16767.21659	776.018862
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2025	013000	Construction	C.1 Well Drilling	20594.76783	953.0254021
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2025	014000	Construction	C.1 Well Drilling	25379.20689	1174.283577
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2025	015000	Construction	C.1 Well Drilling	31120.53376	1439.793387
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%	2026	001000	Construction	C.1 Well Drilling	248.7099637	22.54780152
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.96%	1.96%	2026	002000	Construction	C.1 Well Drilling	324.8772241	29.55905691
	3000	No Reduct	No Reduct	No Reduct	No Reduct	1.37%	1.37%	2026	003000	Construction	C.1 Well Drilling	401.0444845	36.5703123
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2026	004000	Construction	C.1 Well Drilling	477.2117449	43.58156769
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%	2026	005000	Construction	C.1 Well Drilling	629.5462656	57.60407848
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.06%	0.06%	2026	006000	Construction	C.1 Well Drilling	2751.246266	132.6260497
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2026	007000	Construction	C.1 Well Drilling	3297.453882	158.8484526
2026	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2026	008000	Construction	C.1 Well Drilling	4116.765307	198.1820569
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2026	009000	Construction	C.1 Well Drilling	4936.076732	237.5156612
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2026	010000	Construction	C.1 Well Drilling	6301.595774	303.0716684
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2026	011000	Construction	C.1 Well Drilling	9527.043073	450.2183429
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2026	012000	Construction	C.1 Well Drilling	11903.7518	562.3944198
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2026	013000	Construction	C.1 Well Drilling	14619.99034	690.5956505
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2026	014000	Construction	C.1 Well Drilling	18015.28851	850.8471889
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2026	015000	Construction	C.1 Well Drilling	22089.64632	1043.149035
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%	2027	001000	Construction	C.1 Well Drilling	237.4394104	22.28579071

16846.89225	19.81478506	454.6487994	418.2768955	2023	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	558.2660815	513.604795	2023	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	687.7876841	632.7646694	2023	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	843.2136073	775.7565187	2023	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	10.7065109	9.849990027	2024	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	13.88905201	12.77792785	2024	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	17.07159313	15.70586568	2024	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	20.25413424	18.6338035	2024	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	26.61921647	24.48967915	2024	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	105.3744057	96.94445324	2024	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	126.2175093	116.1201086	2024	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	157.4821648	144.8835916	2024	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	188.7468202	173.6470746	2024	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	240.8545793	221.5862129	2024	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	360.6164814	331.7671629	2024	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	450.4808799	414.4424095	2024	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	553.1830496	508.9284056	2024	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	681.5607616	627.0359007	2024	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	835.6140162	768.7648949	2024	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	9.567177173	8.801802999	2025	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	12.43192262	11.43736881	2025	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	15.29666807	14.07293462	2025	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	18.16141351	16.70850043	2025	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	23.8909044	21.97963205	2025	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	103.286051	95.02316693	2025	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	123.7486731	113.8487792	2025	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	154.4426061	142.0871976	2025	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	185.1365392	170.325616	2025	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	236.2930943	217.3896467	2025	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	355.2807659	326.8583046	2025	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	443.8577221	408.3491044	2025	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	545.0885293	501.481447	2025	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	671.6270382	617.8968752	2025	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	823.473249	757.5953891	2025	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	8.829692143	8.123316771	2026	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	11.49217578	10.57280172	2026	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	14.15465942	13.02228666	2026	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	16.81714305	15.47177161	2026	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	22.14211033	20.3707415	2026	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	61.34753113	56.43972864	2026	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	73.44858911	67.57270198	2026	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	91.60017608	84.27216199	2026	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	109.751763	100.971622	2026	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	140.004408	128.8040554	2026	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	208.1908107	191.5355459	2026	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	260.0279531	239.2257169	2026	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	319.2704015	293.7287694	2026	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	393.3234621	361.8575851	2026	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	482.1871347	443.6121639	2026	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	8.101693118	7.453557668	2027	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction

0.10260892	0.094400206	41	2023	No Reduction	No Reduction	No Reduction	No Reduction	0.00210348	0.0019352
0.110167	0.101353642	36	2023	No Reduction	No Reduction	No Reduction	No Reduction	0.00198301	0.00182437
0.037571058	0.034565373	10	2023	No Reduction	No Reduction	No Reduction	No Reduction	0.00018786	0.00017283
0.009186782	0.008451839	2	2023	No Reduction	No Reduction	No Reduction	No Reduction	9.1868E-06	8.4518E-06
0.044603022	0.041034786	327	2024	No Reduction	No Reduction	No Reduction	No Reduction	0.00729259	0.00670919
0.27287225	0.251042448	1599	2024	No Reduction	No Reduction	No Reduction	No Reduction	0.21816136	0.20070844
0.233991193	0.215272008	1142	2024	No Reduction	No Reduction	No Reduction	No Reduction	0.13360897	0.12292032
0.052849177	0.048621225	221	2024	No Reduction	No Reduction	No Reduction	No Reduction	0.00583983	0.00537265
0.113201076	0.10414499	368	2024	No Reduction	No Reduction	No Reduction	No Reduction	0.020829	0.01916268
0.065825671	0.060559631	91	2024	No Reduction	No Reduction	No Reduction	No Reduction	0.00299507	0.00275546
0.047103961	0.043335646	55	2024	No Reduction	No Reduction	No Reduction	No Reduction	0.00129536	0.00119173
0.026400117	0.024288104	25	2024	No Reduction	No Reduction	No Reduction	No Reduction	0.00033	0.0003036
0.046455076	0.042738668	37	2024	No Reduction	No Reduction	No Reduction	No Reduction	0.00085942	0.00079067
0.052406311	0.048213812	33	2024	No Reduction	No Reduction	No Reduction	No Reduction	0.0008647	0.00079553
0.061788558	0.056845478	31	2024	No Reduction	No Reduction	No Reduction	No Reduction	0.00095772	0.0008811
0.10151645	0.093395134	41	2024	No Reduction	No Reduction	No Reduction	No Reduction	0.00208109	0.0019146
0.109000913	0.100280843	36	2024	No Reduction	No Reduction	No Reduction	No Reduction	0.00196202	0.00180506
0.03717531	0.034201285	10	2024	No Reduction	No Reduction	No Reduction	No Reduction	0.00018588	0.00017101
0.00909039	0.008363158	2	2024	No Reduction	No Reduction	No Reduction	No Reduction	9.0904E-06	8.3632E-06
0.039918866	0.036725362	328	2025	No Reduction	No Reduction	No Reduction	No Reduction	0.00654669	0.00602296
0.244185513	0.224650652	1601	2025	No Reduction	No Reduction	No Reduction	No Reduction	0.1954705	0.17983285
0.209717264	0.192939982	1144	2025	No Reduction	No Reduction	No Reduction	No Reduction	0.11995828	0.11036167
0.047317975	0.043532521	221	2025	No Reduction	No Reduction	No Reduction	No Reduction	0.00522864	0.00481034
0.101447147	0.093331375	368	2025	No Reduction	No Reduction	No Reduction	No Reduction	0.01866628	0.01717297
0.064424906	0.059270926	91	2025	No Reduction	No Reduction	No Reduction	No Reduction	0.00293133	0.00269683
0.046952171	0.043195998	56	2025	No Reduction	No Reduction	No Reduction	No Reduction	0.00131466	0.00120949
0.025851965	0.023783804	25	2025	No Reduction	No Reduction	No Reduction	No Reduction	0.00032315	0.0002973
0.045498558	0.041858671	37	2025	No Reduction	No Reduction	No Reduction	No Reduction	0.00084172	0.00077439
0.05133714	0.047230174	33	2025	No Reduction	No Reduction	No Reduction	No Reduction	0.00084706	0.0007793
0.060783562	0.055920882	31	2025	No Reduction	No Reduction	No Reduction	No Reduction	0.00094215	0.00086677
0.099874772	0.09188479	41	2025	No Reduction	No Reduction	No Reduction	No Reduction	0.00204743	0.00188364
0.107245796	0.098666134	36	2025	No Reduction	No Reduction	No Reduction	No Reduction	0.00193042	0.00177599
0.036578859	0.03365255	10	2025	No Reduction	No Reduction	No Reduction	No Reduction	0.00018289	0.00016826
0.008944957	0.00822936	2	2025	No Reduction	No Reduction	No Reduction	No Reduction	8.945E-06	8.2294E-06
0.036786872	0.033843927	328	2026	No Reduction	No Reduction	No Reduction	No Reduction	0.00603305	0.0055504
0.225672673	0.207618841	1603	2026	No Reduction	No Reduction	No Reduction	No Reduction	0.18087665	0.1664065
0.194110167	0.178581446	1146	2026	No Reduction	No Reduction	No Reduction	No Reduction	0.11122513	0.10232717
0.043948327	0.040432446	222	2026	No Reduction	No Reduction	No Reduction	No Reduction	0.00487826	0.004488
0.093881319	0.086370813	368	2026	No Reduction	No Reduction	No Reduction	No Reduction	0.01727416	0.01589223
0.038208689	0.035152001	91	2026	No Reduction	No Reduction	No Reduction	No Reduction	0.0017385	0.00159942
0.027826047	0.025599964	56	2026	No Reduction	No Reduction	No Reduction	No Reduction	0.00077913	0.0007168
0.015310017	0.014085213	25	2026	No Reduction	No Reduction	No Reduction	No Reduction	0.00019138	0.00017607
0.026932082	0.024777514	37	2026	No Reduction	No Reduction	No Reduction	No Reduction	0.00049824	0.00045838
0.030372132	0.027942365	33	2026	No Reduction	No Reduction	No Reduction	No Reduction	0.00050114	0.00046105
0.035565501	0.032720264	31	2026	No Reduction	No Reduction	No Reduction	No Reduction	0.00055127	0.00050716
0.058423152	0.0537493	41	2026	No Reduction	No Reduction	No Reduction	No Reduction	0.00119767	0.00110186
0.064465008	0.059307809	37	2026	No Reduction	No Reduction	No Reduction	No Reduction	0.0011926	0.00109719
0.021389703	0.019678527	10	2026	No Reduction	No Reduction	No Reduction	No Reduction	0.00010695	9.8393E-05
0.005229947	0.004811551	2	2026	No Reduction	No Reduction	No Reduction	No Reduction	5.2299E-06	4.8116E-06
0.033806408	0.0311019	329	2027	No Reduction	No Reduction	No Reduction	No Reduction	0.00556115	0.00511626

0.002103483	41	5.13045E-05	0.357797304	2023
0.001983006	36	5.50835E-05	0.384152329	2023
0.000187855	10	1.87855E-05	0.131010278	2023
9.18678E-06	2	4.59339E-06	0.032034308	2023
0.007292594	327	2.23015E-05	0.155530739	2024
0.218161364	1599	0.000136436	0.951505537	2024
0.133608971	1142	0.000116996	0.81592729	2024
0.005839834	221	2.64246E-05	0.18428508	2024
0.020828998	368	5.66005E-05	0.394732152	2024
0.002995068	91	3.29128E-05	0.229534115	2024
0.001295359	55	2.3552E-05	0.164251513	2024
0.000330001	25	1.32001E-05	0.092057207	2024
0.000859419	37	2.32275E-05	0.16198885	2024
0.000864704	33	2.62032E-05	0.182740805	2024
0.000957723	31	3.08943E-05	0.215456702	2024
0.002081087	41	5.07582E-05	0.353987861	2024
0.001962016	36	5.45005E-05	0.380086185	2024
0.000185877	10	1.85877E-05	0.129630305	2024
9.09039E-06	2	4.54519E-06	0.031698189	2024
0.006546694	328	1.99594E-05	0.139197085	2025
0.195470503	1601	0.000122093	0.851474884	2025
0.119958275	1144	0.000104859	0.7312841	2025
0.005228636	221	2.3659E-05	0.164997779	2025
0.018666275	368	5.07236E-05	0.353746201	2025
0.002931333	91	3.22125E-05	0.224649646	2025
0.001314661	56	2.34761E-05	0.163722219	2025
0.00032315	25	1.2926E-05	0.090145801	2025
0.000841723	37	2.27493E-05	0.158653471	2025
0.000847063	33	2.56686E-05	0.179012607	2025
0.000942145	31	3.03918E-05	0.21195228	2025
0.002047433	41	4.99374E-05	0.348263329	2025
0.001930424	36	5.36229E-05	0.37396609	2025
0.000182894	10	1.82894E-05	0.12755048	2025
8.94496E-06	2	4.47248E-06	0.031191064	2025
0.006033047	328	1.83934E-05	0.128275823	2026
0.180876647	1603	0.000112836	0.786920611	2026
0.111225126	1146	9.70551E-05	0.676862154	2026
0.004878264	222	2.19742E-05	0.153247817	2026
0.017274163	368	4.69407E-05	0.32736416	2026
0.001738495	91	1.91043E-05	0.133233697	2026
0.000779129	56	1.3913E-05	0.097029424	2026
0.000191375	25	7.65501E-06	0.053386029	2026
0.000498244	37	1.3466E-05	0.093912169	2026
0.00050114	33	1.51861E-05	0.105907623	2026
0.000551265	31	1.77828E-05	0.124016902	2026
0.001197675	41	2.92116E-05	0.203721531	2026
0.001192603	37	3.22325E-05	0.224789483	2026
0.000106949	10	1.06949E-05	0.074585895	2026
5.22995E-06	2	2.61497E-06	0.018236825	2026
0.005561154	329	1.69032E-05	0.117882946	2027

	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.96%	1.96%	2027	002000	Construction	C.1 Well Drilling	310.3226543	29.23918253
	3000	No Reduct	No Reduct	No Reduct	No Reduct	1.37%	1.37%	2027	003000	Construction	C.1 Well Drilling	383.2058981	36.19257436
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2027	004000	Construction	C.1 Well Drilling	456.089142	43.14596618
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%	2027	005000	Construction	C.1 Well Drilling	601.8556298	57.05274983
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.06%	0.06%	2027	006000	Construction	C.1 Well Drilling	2732.765427	134.013557
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2027	007000	Construction	C.1 Well Drilling	3275.560577	160.5311453
2027	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2027	008000	Construction	C.1 Well Drilling	4089.753302	200.3075278
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.03%	0.03%	2027	009000	Construction	C.1 Well Drilling	4903.946026	240.0839103
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2027	010000	Construction	C.1 Well Drilling	6260.9339	306.3778812
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2027	011000	Construction	C.1 Well Drilling	9482.797117	456.3735298
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2027	012000	Construction	C.1 Well Drilling	11848.79898	570.1105084
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2027	013000	Construction	C.1 Well Drilling	14552.8011	700.0956269
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2027	014000	Construction	C.1 Well Drilling	17932.80376	862.5770249
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2027	015000	Construction	C.1 Well Drilling	21988.80695	1057.554703
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%	2028	001000	Construction	C.1 Well Drilling	220.3047946	21.91287962
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.96%	1.96%	2028	002000	Construction	C.1 Well Drilling	287.738463	28.7537402
	3000	No Reduct	No Reduct	No Reduct	No Reduct	1.37%	1.37%	2028	003000	Construction	C.1 Well Drilling	355.1721314	35.59460077
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2028	004000	Construction	C.1 Well Drilling	422.6057999	42.43546135
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%	2028	005000	Construction	C.1 Well Drilling	557.4731368	56.11718251
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.06%	0.06%	2028	006000	Construction	C.1 Well Drilling	2729.804588	136.2304136
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2028	007000	Construction	C.1 Well Drilling	3272.164748	163.1984367
2028	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2028	008000	Construction	C.1 Well Drilling	4085.704988	203.6504715
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.03%	0.03%	2028	009000	Construction	C.1 Well Drilling	4899.245228	244.1025062
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2028	010000	Construction	C.1 Well Drilling	6255.145627	311.522564
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2028	011000	Construction	C.1 Well Drilling	9482.668135	464.5924702
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2028	012000	Construction	C.1 Well Drilling	11848.83422	580.3930133
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2028	013000	Construction	C.1 Well Drilling	14553.02403	712.7364911
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2028	014000	Construction	C.1 Well Drilling	17933.2613	878.1658384
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2028	015000	Construction	C.1 Well Drilling	21989.54602	1076.681055
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%	2029	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.96%	1.96%	2029	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	No Reduct	No Reduct	No Reduct	No Reduct	1.37%	1.37%	2029	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2029	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%	2029	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.06%	0.06%	2029	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2029	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2029	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2029	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.03%	0.03%	2029	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2029	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2029	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2029	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2029	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2029	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2029	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%	2030	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.96%	1.96%	2030	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	No Reduct	No Reduct	No Reduct	No Reduct	1.37%	1.37%	2030	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2030	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%	2030	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.06%	0.06%	2030	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451

855.7315035	1.008083983	10.56198754	9.71702854	2027	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	13.02228197	11.98049941	2027	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	15.48257639	14.24397028	2027	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	20.40316524	18.77091203	2027	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	59.61227168	54.84328995	2027	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	71.39056405	65.67931893	2027	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	89.05800261	81.9333624	2027	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	106.7254412	98.18740587	2027	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	136.1711721	125.2774783	2027	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	203.5993388	187.3113917	2027	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	254.3189711	233.9734534	2027	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	312.2842651	287.3015239	2027	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	384.7408826	353.961612	2027	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	471.6888236	433.9537177	2027	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	7.431979033	6.83742071	2028	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	9.688992596	8.913873189	2028	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	11.94600616	10.99032567	2028	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	14.20301972	13.06677815	2028	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	18.71704685	17.2196831	2028	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	58.97986828	54.26147881	2028	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	70.64365426	64.99216192	2028	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	88.13933324	81.08818658	2028	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	105.6350122	97.18421124	2028	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	134.7944772	124.010919	2028	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	202.0884447	185.9213691	2028	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	252.4453213	232.2496956	2028	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	309.9960374	285.1963544	2028	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	381.9344325	351.3796779	2028	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	468.2605067	430.7996662	2028	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2029	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2029	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2029	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2029	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2029	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2029	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2029	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2029	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2029	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2029	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2029	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2029	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2029	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2029	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2029	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2030	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2030	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2030	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2030	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2030	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2030	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction

0.20722736	0.190649154	1604	2027	No Reduction	No Reduction	No Reduction	No Reduction	0.16619634	0.15290062
0.178627004	0.164336928	1148	2027	No Reduction	No Reduction	No Reduction	No Reduction	0.1025319	0.0943294
0.040400548	0.03716849	222	2027	No Reduction	No Reduction	No Reduction	No Reduction	0.00448446	0.0041257
0.086614411	0.079685258	369	2027	No Reduction	No Reduction	No Reduction	No Reduction	0.01598036	0.01470193
0.037072733	0.034106922	91	2027	No Reduction	No Reduction	No Reduction	No Reduction	0.00168681	0.00155186
0.027006155	0.024845663	56	2027	No Reduction	No Reduction	No Reduction	No Reduction	0.00075617	0.00069568
0.01486299	0.013673949	25	2027	No Reduction	No Reduction	No Reduction	No Reduction	0.00018579	0.00017092
0.026857287	0.024708703	38	2027	No Reduction	No Reduction	No Reduction	No Reduction	0.00051029	0.00046947
0.029496646	0.027136917	33	2027	No Reduction	No Reduction	No Reduction	No Reduction	0.00048669	0.00044776
0.034729428	0.031951076	31	2027	No Reduction	No Reduction	No Reduction	No Reduction	0.00053831	0.00049524
0.05705551	0.052491069	41	2027	No Reduction	No Reduction	No Reduction	No Reduction	0.00116964	0.00107607
0.062960675	0.057923822	37	2027	No Reduction	No Reduction	No Reduction	No Reduction	0.00116477	0.00107159
0.020891861	0.019220512	10	2027	No Reduction	No Reduction	No Reduction	No Reduction	0.00010446	9.6103E-05
0.005108474	0.004699795	2	2027	No Reduction	No Reduction	No Reduction	No Reduction	5.1085E-06	4.6998E-06
0.030965819	0.028488557	329	2028	No Reduction	No Reduction	No Reduction	No Reduction	0.00509388	0.00468637
0.190290276	0.175067038	1608	2028	No Reduction	No Reduction	No Reduction	No Reduction	0.15299338	0.1407539
0.16390551	0.150793147	1150	2028	No Reduction	No Reduction	No Reduction	No Reduction	0.09424567	0.08670606
0.037006632	0.034046089	222	2028	No Reduction	No Reduction	No Reduction	No Reduction	0.00410774	0.00377912
0.079338646	0.072991554	369	2028	No Reduction	No Reduction	No Reduction	No Reduction	0.01463798	0.01346694
0.036624995	0.033695003	91	2028	No Reduction	No Reduction	No Reduction	No Reduction	0.00166644	0.00153312
0.026683939	0.024549225	56	2028	No Reduction	No Reduction	No Reduction	No Reduction	0.00074715	0.00068738
0.014687837	0.013512809	25	2028	No Reduction	No Reduction	No Reduction	No Reduction	0.0001836	0.00016891
0.026543422	0.024419947	38	2028	No Reduction	No Reduction	No Reduction	No Reduction	0.00050433	0.00046398
0.029155091	0.026822687	33	2028	No Reduction	No Reduction	No Reduction	No Reduction	0.00048106	0.00044257
0.034420533	0.031666893	31	2028	No Reduction	No Reduction	No Reduction	No Reduction	0.00053352	0.00049084
0.056551094	0.052027006	41	2028	No Reduction	No Reduction	No Reduction	No Reduction	0.0011593	0.00106655
0.062406563	0.057414039	37	2028	No Reduction	No Reduction	No Reduction	No Reduction	0.00115452	0.00106216
0.020708682	0.019051987	10	2028	No Reduction	No Reduction	No Reduction	No Reduction	0.00010354	9.526E-05
0.005063816	0.004658711	2	2028	No Reduction	No Reduction	No Reduction	No Reduction	5.0638E-06	4.6587E-06
0.029826895	0.027440747	330	2029	No Reduction	No Reduction	No Reduction	No Reduction	0.00492144	0.00452772
0.183113846	0.168464723	1610	2029	No Reduction	No Reduction	No Reduction	No Reduction	0.14740665	0.1356141
0.157882904	0.145252346	1152	2029	No Reduction	No Reduction	No Reduction	No Reduction	0.09094055	0.08366535
0.035597374	0.032749572	222	2029	No Reduction	No Reduction	No Reduction	No Reduction	0.00395131	0.0036352
0.076558221	0.070433563	370	2029	No Reduction	No Reduction	No Reduction	No Reduction	0.01416327	0.01303021
0.036344722	0.033437152	91	2029	No Reduction	No Reduction	No Reduction	No Reduction	0.00165368	0.00152139
0.026483076	0.02436443	56	2029	No Reduction	No Reduction	No Reduction	No Reduction	0.00074153	0.0006822
0.014579118	0.013412786	25	2029	No Reduction	No Reduction	No Reduction	No Reduction	0.00018224	0.00016766
0.026349174	0.024241239	38	2029	No Reduction	No Reduction	No Reduction	No Reduction	0.00050063	0.00046058
0.028944397	0.026628849	33	2029	No Reduction	No Reduction	No Reduction	No Reduction	0.00047758	0.00043938
0.034251166	0.031511075	31	2029	No Reduction	No Reduction	No Reduction	No Reduction	0.00053089	0.00048842
0.056275406	0.051773374	41	2029	No Reduction	No Reduction	No Reduction	No Reduction	0.00115365	0.00106135
0.062104446	0.057136092	37	2029	No Reduction	No Reduction	No Reduction	No Reduction	0.00114893	0.00105702
0.020609009	0.018960288	10	2029	No Reduction	No Reduction	No Reduction	No Reduction	0.00010305	9.4801E-05
0.005039556	0.004636392	2	2029	No Reduction	No Reduction	No Reduction	No Reduction	5.0396E-06	4.6364E-06
0.02978275	0.027400134	330	2030	No Reduction	No Reduction	No Reduction	No Reduction	0.00491415	0.00452102
0.183183535	0.168528837	1613	2030	No Reduction	No Reduction	No Reduction	No Reduction	0.14773752	0.13591851
0.157786083	0.14516327	1153	2030	No Reduction	No Reduction	No Reduction	No Reduction	0.09096368	0.08368663
0.0357048	0.032848404	223	2030	No Reduction	No Reduction	No Reduction	No Reduction	0.00398109	0.0036626
0.076651521	0.070519399	371	2030	No Reduction	No Reduction	No Reduction	No Reduction	0.01421886	0.01308135
0.036290931	0.033387664	91	2030	No Reduction	No Reduction	No Reduction	No Reduction	0.00165124	0.00151914

0.166196343	1604	0.000103614	0.722601804	2027
0.1025319	1148	8.93135E-05	0.622872363	2027
0.004484461	222	2.02003E-05	0.140876709	2027
0.015980359	369	4.33072E-05	0.302024451	2027
0.001686809	91	1.85364E-05	0.12927262	2027
0.000756172	56	1.35031E-05	0.094170461	2027
0.000185787	25	7.4315E-06	0.051827248	2027
0.000510288	38	1.34286E-05	0.093651359	2027
0.000486695	33	1.47483E-05	0.102854803	2027
0.000538306	31	1.73647E-05	0.121101514	2027
0.001169638	41	2.85278E-05	0.198952564	2027
0.001164772	37	3.14803E-05	0.219543872	2027
0.000104459	10	1.04459E-05	0.072849919	2027
5.10847E-06	2	2.55424E-06	0.017813247	2027
0.005093877	329	1.54829E-05	0.10797781	2028
0.152993382	1608	9.51451E-05	0.663542192	2028
0.094245668	1150	8.19528E-05	0.571538514	2028
0.004107736	222	1.85033E-05	0.129042125	2028
0.01463798	369	3.96693E-05	0.276653859	2028
0.001666437	91	1.83125E-05	0.127711359	2028
0.00074715	56	1.3342E-05	0.093046896	2028
0.000183598	25	7.34392E-06	0.051216489	2028
0.000504325	38	1.32717E-05	0.092556913	2028
0.000481059	33	1.45775E-05	0.101663802	2028
0.000533518	31	1.72103E-05	0.120024399	2028
0.001159297	41	2.82755E-05	0.197193664	2028
0.001154521	37	3.12033E-05	0.217611684	2028
0.000103543	10	1.03543E-05	0.072211173	2028
5.06382E-06	2	2.53191E-06	0.017657527	2028
0.004921438	330	1.49134E-05	0.104006382	2029
0.147406646	1610	9.15569E-05	0.638517981	2029
0.090940553	1152	7.89415E-05	0.550537686	2029
0.003951308	222	1.77987E-05	0.124128042	2029
0.014163271	370	3.82791E-05	0.266958516	2029
0.001653685	91	1.81724E-05	0.126734046	2029
0.000741526	56	1.32415E-05	0.092346485	2029
0.000182239	25	7.28956E-06	0.050837383	2029
0.000500634	38	1.31746E-05	0.091879571	2029
0.000477583	33	1.44722E-05	0.100929113	2029
0.000530893	31	1.71256E-05	0.119433816	2029
0.001153646	41	2.81377E-05	0.196232342	2029
0.001148932	37	3.10522E-05	0.216558203	2029
0.000103045	10	1.03045E-05	0.071863615	2029
5.03956E-06	2	2.51978E-06	0.017572933	2029
0.004914154	330	1.48914E-05	0.10385245	2030
0.147737521	1613	9.15918E-05	0.638760986	2030
0.090963677	1153	7.8893E-05	0.55020007	2030
0.003981085	223	1.78524E-05	0.124502638	2030
0.014218857	371	3.83258E-05	0.267283854	2030
0.001651237	91	1.81455E-05	0.126546477	2030

	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2030	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2030	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2030	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.03%	0.03%	2030	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2030	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2030	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2030	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2030	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2030	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2030	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%	2031	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.97%	1.97%	2031	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	No Reduct	No Reduct	No Reduct	No Reduct	1.37%	1.37%	2031	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2031	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%	2031	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.06%	0.06%	2031	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2031	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2031	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2031	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.03%	0.03%	2031	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2031	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2031	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2031	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2031	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2031	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2031	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%	2032	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.96%	1.96%	2032	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	No Reduct	No Reduct	No Reduct	No Reduct	1.37%	1.37%	2032	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2032	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%	2032	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.06%	0.06%	2032	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2032	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2032	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2032	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2032	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2032	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2032	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2032	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2032	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2032	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2032	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%	2033	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.96%	1.96%	2033	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	No Reduct	No Reduct	No Reduct	No Reduct	1.37%	1.37%	2033	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2033	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%	2033	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.06%	0.06%	2033	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2033	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2033	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2033	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2033	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2033	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2033	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126

4747.390168	5.585171161	70.21595899	64.59868227	2030	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2030	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2030	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2030	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2030	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2030	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2030	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2030	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2030	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2031	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2031	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2031	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2031	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2031	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2031	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2031	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2031	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2031	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2031	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2031	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2031	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2031	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2031	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2031	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2032	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2032	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2032	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2032	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2032	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2032	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2032	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2032	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2032	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2032	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2032	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2032	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2032	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2032	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2032	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2033	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2033	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2033	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2033	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2033	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2033	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2033	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2033	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2033	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2033	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2033	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction

0.02644388	0.024328371	56	2030	No Reduction	No Reduction	No Reduction	No Reduction	0.00074043	0.00068119
0.01455754	0.013392935	25	2030	No Reduction	No Reduction	No Reduction	No Reduction	0.00018197	0.00016741
0.026310177	0.024205362	38	2030	No Reduction	No Reduction	No Reduction	No Reduction	0.00049989	0.0004599
0.028901559	0.026589437	33	2030	No Reduction	No Reduction	No Reduction	No Reduction	0.00047688	0.00043873
0.034200474	0.031464438	31	2030	No Reduction	No Reduction	No Reduction	No Reduction	0.00053011	0.0004877
0.056192118	0.051696748	41	2030	No Reduction	No Reduction	No Reduction	No Reduction	0.00115194	0.00105978
0.06201253	0.057051529	37	2030	No Reduction	No Reduction	No Reduction	No Reduction	0.00114723	0.00105545
0.020578507	0.018932227	10	2030	No Reduction	No Reduction	No Reduction	No Reduction	0.00010289	9.4661E-05
0.005032098	0.00462953	2	2030	No Reduction	No Reduction	No Reduction	No Reduction	5.0321E-06	4.6295E-06
0.029738736	0.027359641	330	2031	No Reduction	No Reduction	No Reduction	No Reduction	0.00490689	0.00451434
0.183253018	0.168592761	1616	2031	No Reduction	No Reduction	No Reduction	No Reduction	0.14806844	0.13622295
0.157826193	0.145200172	1155	2031	No Reduction	No Reduction	No Reduction	No Reduction	0.09114463	0.0838531
0.035652034	0.03279986	223	2031	No Reduction	No Reduction	No Reduction	No Reduction	0.0039752	0.00365718
0.076538243	0.070415183	371	2031	No Reduction	No Reduction	No Reduction	No Reduction	0.01419784	0.01306202
0.036237299	0.033338323	91	2031	No Reduction	No Reduction	No Reduction	No Reduction	0.0016488	0.00151689
0.026404801	0.024292417	56	2031	No Reduction	No Reduction	No Reduction	No Reduction	0.00073933	0.00068019
0.014536027	0.013373143	25	2031	No Reduction	No Reduction	No Reduction	No Reduction	0.0001817	0.00016716
0.026271295	0.02416959	38	2031	No Reduction	No Reduction	No Reduction	No Reduction	0.00049915	0.00045922
0.028858847	0.026550143	33	2031	No Reduction	No Reduction	No Reduction	No Reduction	0.00047617	0.00043808
0.035251542	0.032431421	32	2031	No Reduction	No Reduction	No Reduction	No Reduction	0.00056402	0.0005189
0.056109075	0.051620349	41	2031	No Reduction	No Reduction	No Reduction	No Reduction	0.00115024	0.00105822
0.061920886	0.056967217	37	2031	No Reduction	No Reduction	No Reduction	No Reduction	0.00114554	0.00105389
0.020548096	0.018904248	10	2031	No Reduction	No Reduction	No Reduction	No Reduction	0.00010274	9.4521E-05
0.005024661	0.004622688	2	2031	No Reduction	No Reduction	No Reduction	No Reduction	5.0247E-06	4.6227E-06
0.029874821	0.027484839	332	2032	No Reduction	No Reduction	No Reduction	No Reduction	0.00495922	0.00456248
0.183095832	0.16844815	1617	2032	No Reduction	No Reduction	No Reduction	No Reduction	0.14803298	0.13619033
0.157866186	0.145236965	1157	2032	No Reduction	No Reduction	No Reduction	No Reduction	0.09132559	0.08401958
0.035759063	0.032898326	224	2032	No Reduction	No Reduction	No Reduction	No Reduction	0.00400502	0.00368461
0.076425299	0.070311275	371	2032	No Reduction	No Reduction	No Reduction	No Reduction	0.01417689	0.01304274
0.036183826	0.033289127	91	2032	No Reduction	No Reduction	No Reduction	No Reduction	0.00164636	0.00151466
0.026365836	0.02425657	56	2032	No Reduction	No Reduction	No Reduction	No Reduction	0.00073824	0.00067918
0.014514577	0.013353409	25	2032	No Reduction	No Reduction	No Reduction	No Reduction	0.00018143	0.00016692
0.026232528	0.024133924	38	2032	No Reduction	No Reduction	No Reduction	No Reduction	0.00049842	0.00045854
0.028816262	0.026510964	33	2032	No Reduction	No Reduction	No Reduction	No Reduction	0.00047547	0.00043743
0.035199523	0.032383564	32	2032	No Reduction	No Reduction	No Reduction	No Reduction	0.00056319	0.00051814
0.056026278	0.051544175	41	2032	No Reduction	No Reduction	No Reduction	No Reduction	0.00114854	0.00105666
0.061829512	0.056883153	37	2032	No Reduction	No Reduction	No Reduction	No Reduction	0.00114385	0.00105234
0.020517774	0.018876352	10	2032	No Reduction	No Reduction	No Reduction	No Reduction	0.00010259	9.4382E-05
0.005017247	0.004615867	2	2032	No Reduction	No Reduction	No Reduction	No Reduction	5.0172E-06	4.6159E-06
0.029838129	0.027451083	332	2033	No Reduction	No Reduction	No Reduction	No Reduction	0.00495313	0.00455688
0.182870954	0.168241262	1617	2033	No Reduction	No Reduction	No Reduction	No Reduction	0.14785117	0.13602306
0.157944848	0.145309335	1159	2033	No Reduction	No Reduction	No Reduction	No Reduction	0.09152904	0.08420676
0.035715144	0.03285792	224	2033	No Reduction	No Reduction	No Reduction	No Reduction	0.0040001	0.00368009
0.076537179	0.070414204	372	2033	No Reduction	No Reduction	No Reduction	No Reduction	0.01423592	0.01309704
0.036139385	0.033248241	91	2033	No Reduction	No Reduction	No Reduction	No Reduction	0.00164434	0.00151279
0.026333454	0.024226778	56	2033	No Reduction	No Reduction	No Reduction	No Reduction	0.00073734	0.00067835
0.01507662	0.013870488	26	2033	No Reduction	No Reduction	No Reduction	No Reduction	0.000196	0.00018032
0.026200309	0.024104283	38	2033	No Reduction	No Reduction	No Reduction	No Reduction	0.00049781	0.00045798
0.02878087	0.026478403	33	2033	No Reduction	No Reduction	No Reduction	No Reduction	0.00047488	0.00043689
0.035156291	0.03234379	32	2033	No Reduction	No Reduction	No Reduction	No Reduction	0.0005625	0.0005175

0.000740429	56	1.32219E-05	0.092209811	2030
0.000181969	25	7.27877E-06	0.050762143	2030
0.000499893	38	1.31551E-05	0.091743588	2030
0.000476876	33	1.44508E-05	0.100779736	2030
0.000530107	31	1.71002E-05	0.119257051	2030
0.001151938	41	2.80961E-05	0.195941915	2030
0.001147232	37	3.10063E-05	0.216237693	2030
0.000102893	10	1.02893E-05	0.071757255	2030
5.0321E-06	2	2.51605E-06	0.017546925	2030
0.004906892	330	1.48694E-05	0.103698974	2031
0.148068438	1616	9.16265E-05	0.639003273	2031
0.091144627	1155	7.89131E-05	0.550339936	2031
0.003975202	223	1.7826E-05	0.124318644	2031
0.014197844	371	3.82691E-05	0.266888853	2031
0.001648797	91	1.81186E-05	0.126359463	2031
0.000739334	56	1.32024E-05	0.09207354	2031
0.0001817	25	7.26801E-06	0.050687125	2031
0.000499155	38	1.31356E-05	0.091608006	2031
0.000476171	33	1.44294E-05	0.1006308	2031
0.000564025	32	1.76258E-05	0.122922126	2031
0.001150236	41	2.80545E-05	0.195652345	2031
0.001145536	37	3.09604E-05	0.21591813	2031
0.00010274	10	1.0274E-05	0.07165121	2031
5.02466E-06	2	2.51233E-06	0.017520994	2031
0.00495922	332	1.49374E-05	0.104173501	2032
0.14803298	1617	9.15479E-05	0.638455166	2032
0.091325588	1157	7.89331E-05	0.550479389	2032
0.004005015	224	1.78795E-05	0.124691853	2032
0.014176893	371	3.82126E-05	0.266495018	2032
0.001646364	91	1.80919E-05	0.126173	2032
0.000738243	56	1.31829E-05	0.091937671	2032
0.000181432	25	7.25729E-06	0.050612329	2032
0.000498418	38	1.31163E-05	0.091472824	2032
0.000475468	33	1.44081E-05	0.100482304	2032
0.000563192	32	1.75998E-05	0.122740735	2032
0.001148539	41	2.80131E-05	0.195363631	2032
0.001143846	37	3.09148E-05	0.21559951	2032
0.000102589	10	1.02589E-05	0.071545478	2032
5.01725E-06	2	2.50862E-06	0.017495139	2032
0.004953129	332	1.49191E-05	0.104045556	2033
0.147851166	1617	9.14355E-05	0.637671016	2033
0.091529039	1159	7.89724E-05	0.550753685	2033
0.004000096	224	1.78576E-05	0.124538706	2033
0.014235915	372	3.82686E-05	0.266885142	2033
0.001644342	91	1.80697E-05	0.126018034	2033
0.000737337	56	1.31667E-05	0.091824754	2033
0.000195996	26	7.53831E-06	0.052572173	2033
0.000497806	38	1.31002E-05	0.091360478	2033
0.000474884	33	1.43904E-05	0.100358892	2033
0.000562501	32	1.75781E-05	0.122589985	2033

	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2033	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2033	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2033	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2033	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%	2034	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.96%	1.96%	2034	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	No Reduct	No Reduct	No Reduct	No Reduct	1.37%	1.37%	2034	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2034	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%	2034	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.06%	0.06%	2034	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2034	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2034	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2034	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2034	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2034	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2034	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2034	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2034	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2034	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2034	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%	2035	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	No Reduct	No Reduct	No Reduct	No Reduct	1.96%	1.96%	2035	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	No Reduct	No Reduct	No Reduct	No Reduct	1.37%	1.37%	2035	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	No Reduct	No Reduct	No Reduct	No Reduct	0.26%	0.26%	2035	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	No Reduct	No Reduct	No Reduct	No Reduct	0.42%	0.42%	2035	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	No Reduct	No Reduct	No Reduct	No Reduct	0.06%	0.06%	2035	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	No Reduct	No Reduct	No Reduct	No Reduct	0.04%	0.04%	2035	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2035	8000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2035	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2035	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2035	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2035	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2035	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	No Reduct	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2035	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	No Reduct	No Reduct	No Reduct	No Reduct	0.01%	0.01%	2035	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	No Reduct	No Reduct	No Reduct	No Reduct	0.00%	0.00%	2035	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176

16846.89225	19.81478506	251.5875537	231.4605494	2033	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2033	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2033	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2033	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2034	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2034	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2034	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2034	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2034	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2034	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2034	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2034	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2034	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2034	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2034	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2034	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2034	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2034	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2034	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2035	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2035	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2035	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2035	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2035	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2035	006000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2035	007000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2035	008000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2035	009000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2035	010000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2035	011000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2035	012000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2035	013000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2035	014000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2035	015000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction

0.057322283	0.0527365	42	2033	No Reduction	No Reduction	No Reduction	No Reduction	0.00120377	0.00110747
0.061753574	0.056813289	37	2033	No Reduction	No Reduction	No Reduction	No Reduction	0.00114244	0.00105105
0.020492574	0.018853168	10	2033	No Reduction	No Reduction	No Reduction	No Reduction	0.00010246	9.4266E-05
0.005011084	0.004610197	2	2033	No Reduction	No Reduction	No Reduction	No Reduction	5.0111E-06	4.6102E-06
0.029883959	0.027493246	333	2034	No Reduction	No Reduction	No Reduction	No Reduction	0.00497568	0.00457763
0.182940607	0.168305343	1620	2034	No Reduction	No Reduction	No Reduction	No Reduction	0.14818189	0.13632733
0.157984558	0.145345868	1161	2034	No Reduction	No Reduction	No Reduction	No Reduction	0.09171004	0.08437328
0.035662583	0.032809564	224	2034	No Reduction	No Reduction	No Reduction	No Reduction	0.00399421	0.00367467
0.076424541	0.070310578	372	2034	No Reduction	No Reduction	No Reduction	No Reduction	0.01421496	0.01307777
0.036086199	0.033199311	91	2034	No Reduction	No Reduction	No Reduction	No Reduction	0.00164192	0.00151057
0.0262947	0.024191124	56	2034	No Reduction	No Reduction	No Reduction	No Reduction	0.00073625	0.00067735
0.015054432	0.013850075	26	2034	No Reduction	No Reduction	No Reduction	No Reduction	0.00019571	0.00018005
0.026161751	0.02406881	38	2034	No Reduction	No Reduction	No Reduction	No Reduction	0.00049707	0.00045731
0.028738514	0.026439436	33	2034	No Reduction	No Reduction	No Reduction	No Reduction	0.00047419	0.00043625
0.035104552	0.032296191	32	2034	No Reduction	No Reduction	No Reduction	No Reduction	0.00056167	0.00051674
0.057237923	0.052658889	42	2034	No Reduction	No Reduction	No Reduction	No Reduction	0.001202	0.00110584
0.061662693	0.056729679	37	2034	No Reduction	No Reduction	No Reduction	No Reduction	0.00114076	0.0010495
0.020462416	0.018825423	10	2034	No Reduction	No Reduction	No Reduction	No Reduction	0.00010231	9.4127E-05
0.00500371	0.004603413	2	2034	No Reduction	No Reduction	No Reduction	No Reduction	5.0037E-06	4.6034E-06
0.029840044	0.027452844	333	2035	No Reduction	No Reduction	No Reduction	No Reduction	0.00496837	0.0045709
0.183010055	0.168369236	1623	2035	No Reduction	No Reduction	No Reduction	No Reduction	0.14851266	0.13663163
0.158024151	0.145382294	1163	2035	No Reduction	No Reduction	No Reduction	No Reduction	0.09189104	0.0845398
0.035610176	0.03276135	224	2035	No Reduction	No Reduction	No Reduction	No Reduction	0.00398834	0.00366927
0.076517375	0.070395985	373	2035	No Reduction	No Reduction	No Reduction	No Reduction	0.01427049	0.01312885
0.03603317	0.033150524	91	2035	No Reduction	No Reduction	No Reduction	No Reduction	0.00163951	0.00150835
0.026256059	0.024155575	56	2035	No Reduction	No Reduction	No Reduction	No Reduction	0.00073517	0.00067636
0.015032309	0.013829723	26	2035	No Reduction	No Reduction	No Reduction	No Reduction	0.00019542	0.00017979
0.026123306	0.02403344	38	2035	No Reduction	No Reduction	No Reduction	No Reduction	0.00049634	0.00045664
0.028696282	0.026400583	33	2035	No Reduction	No Reduction	No Reduction	No Reduction	0.00047349	0.00043561
0.035052966	0.032248731	32	2035	No Reduction	No Reduction	No Reduction	No Reduction	0.00056085	0.00051598
0.057153812	0.052581506	42	2035	No Reduction	No Reduction	No Reduction	No Reduction	0.00120023	0.00110421
0.061572079	0.056646314	37	2035	No Reduction	No Reduction	No Reduction	No Reduction	0.00113908	0.00104796
0.020432346	0.018797758	10	2035	No Reduction	No Reduction	No Reduction	No Reduction	0.00010216	9.3989E-05
0.004996357	0.004596648	2	2035	No Reduction	No Reduction	No Reduction	No Reduction	4.9964E-06	4.5966E-06

0.001203768	42	2.86611E-05	0.199882799	2033
0.001142441	37	3.08768E-05	0.215334711	2033
0.000102463	10	1.02463E-05	0.071457606	2033
5.01108E-06	2	2.50554E-06	0.017473651	2033
0.004975679	333	1.4942E-05	0.104205364	2034
0.148181892	1620	9.14703E-05	0.637913896	2034
0.091710036	1161	7.89923E-05	0.550892153	2034
0.003994209	224	1.78313E-05	0.124355426	2034
0.014214965	372	3.82123E-05	0.266492375	2034
0.001641922	91	1.80431E-05	0.125832577	2034
0.000736252	56	1.31473E-05	0.091689618	2034
0.000195708	26	7.52722E-06	0.052494804	2034
0.000497073	38	1.30809E-05	0.091226025	2034
0.000474185	33	1.43693E-05	0.100211197	2034
0.000561673	32	1.75523E-05	0.122409573	2034
0.001201996	42	2.8619E-05	0.199588638	2034
0.00114076	37	3.08313E-05	0.215017809	2034
0.000102312	10	1.02312E-05	0.071352444	2034
5.00371E-06	2	2.50185E-06	0.017447936	2034
0.004968367	333	1.492E-05	0.104052233	2035
0.14851266	1623	9.1505E-05	0.638156063	2035
0.091891044	1163	7.90121E-05	0.551030214	2035
0.00398834	224	1.78051E-05	0.124172685	2035
0.01427049	373	3.82587E-05	0.266816087	2035
0.001639509	91	1.80166E-05	0.125647665	2035
0.00073517	56	1.3128E-05	0.091554879	2035
0.00019542	26	7.51615E-06	0.052417663	2035
0.000496343	38	1.30617E-05	0.091091968	2035
0.000473489	33	1.43481E-05	0.100063936	2035
0.000560847	32	1.75265E-05	0.122229691	2035
0.00120023	42	2.85769E-05	0.199295341	2035
0.001139083	37	3.0786E-05	0.214701839	2035
0.000102162	10	1.02162E-05	0.071247591	2035
4.99636E-06	2	2.49818E-06	0.017422296	2035

Engines 75<hp<120 Percentages by Well Depth and Pollutant

Well Depth	PMTON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
1,000	Emissions for Engines 75<hp<120	0.064259185	0.005198935	0.042004392	0.000049359	0.005463723	0.005026625
	% of total	16.01%	21.31%	12.91%	12.88%	30.31%	30.31%
2,000	Emissions for Engines 75<hp<120	0.080323981	0.006498669	0.05250549	0.000061698	0.006829653	0.006283281
	% of total	15.27%	20.46%	12.27%	12.24%	29.23%	29.23%
3,000	Emissions for Engines 75<hp<120	0.096388777	0.007798404	0.063006587	0.000074038	0.008195584	0.007539937
	% of total	14.82%	19.93%	11.88%	11.85%	28.56%	28.56%
4,000	Emissions for Engines 75<hp<120	0.112453573	0.009098138	0.073507685	0.000086379	0.009561514	0.008796594
	% of total	14.51%	19.56%	11.61%	11.58%	28.09%	28.09%
5,000	Emissions for Engines 75<hp<120	0.144583165	0.011697605	0.094509881	0.000111058	0.012293376	0.011309906
	% of total	14.11%	19.10%	11.27%	11.25%	27.49%	27.49%
6,000	Emissions for Engines 75<hp<120	0.176712758	0.014297073	0.115512077	0.000135737	0.015025237	0.013823218
	% of total	6.90%	10.73%	5.83%	5.82%	16.33%	16.33%
7,000	Emissions for Engines 75<hp<120	0.20884235	0.016896541	0.136514272	0.000160417	0.017757099	0.016336531
	% of total	6.81%	10.60%	5.75%	5.74%	16.14%	16.14%
8,000	Emissions for Engines 75<hp<120	0.257036739	0.020795743	0.168017567	0.000197436	0.021854891	0.0201065
	% of total	6.71%	10.47%	5.67%	5.66%	15.95%	15.95%
9,000	Emissions for Engines 75<hp<120	0.305231127	0.024694944	0.19952086	0.000234456	0.025952683	0.023876469
	% of total	6.65%	10.38%	5.62%	5.61%	15.83%	15.83%
10,000	Emissions for Engines 75<hp<120	0.385555108	0.031193614	0.252026349	0.000296154	0.032782336	0.030159749
	% of total	6.58%	10.28%	5.56%	5.55%	15.69%	15.69%
11,000	Emissions for Engines 75<hp<120	0.465879089	0.037692284	0.304531839	0.000357852	0.03961199	0.03644303
	% of total	5.35%	8.51%	4.52%	4.51%	13.15%	13.15%
12,000	Emissions for Engines 75<hp<120	0.578332663	0.046790421	0.378039524	0.000444231	0.049173505	0.045239624
	% of total	5.32%	8.46%	4.49%	4.48%	13.08%	13.08%
13,000	Emissions for Engines 75<hp<120	0.706851032	0.057188292	0.462048307	0.000542949	0.06010095	0.055292875
	% of total	5.30%	8.43%	4.47%	4.46%	13.02%	13.02%
14,000	Emissions for Engines 75<hp<120	0.867498993	0.070185631	0.567059286	0.000666346	0.073760257	0.067859436
	% of total	5.27%	8.40%	4.45%	4.44%	12.98%	12.98%
15,000	Emissions for Engines 75<hp<120	1.060276548	0.085782438	0.69307246	0.000814423	0.090151426	0.082939311
	% of total	5.26%	8.37%	4.43%	4.43%	12.94%	12.94%

Drilled Well Percentages by Year Associated with Each Well Depth

2012	2015	2016	2017	2018	2019
305	323	323	323	325	325
8.99%	8.14%	8.14%	8.12%	8.16%	8.15%
1,414	1,575	1,577	1,581	1,582	1,586
41.69%	39.71%	39.72%	39.76%	39.73%	39.77%
930	1,128	1,130	1,131	1,133	1,134
27.42%	28.44%	28.46%	28.45%	28.45%	28.44%
174	218	218	219	219	219
5.13%	5.50%	5.49%	5.51%	5.50%	5.49%
300	363	363	363	364	365
8.84%	9.15%	9.14%	9.13%	9.14%	9.15%
69	89	89	89	89	89
2.03%	2.24%	2.24%	2.24%	2.24%	2.23%
44	55	55	55	55	55
1.30%	1.39%	1.39%	1.38%	1.38%	1.38%
23	25	25	25	25	25
0.68%	0.63%	0.63%	0.63%	0.63%	0.63%
33	37	37	37	37	37
0.97%	0.93%	0.93%	0.93%	0.93%	0.93%
21	33	33	33	33	33
0.62%	0.83%	0.83%	0.83%	0.83%	0.83%
25	31	31	31	31	31
0.74%	0.78%	0.78%	0.78%	0.78%	0.78%
27	41	41	41	41	41
0.80%	1.03%	1.03%	1.03%	1.03%	1.03%
20	36	36	36	36	36
0.59%	0.91%	0.91%	0.91%	0.90%	0.90%
6	10	10	10	10	10
0.18%	0.25%	0.25%	0.25%	0.25%	0.25%
1	2	2	2	2	2
0.03%	0.05%	0.05%	0.05%	0.05%	0.05%
3392	3966	3970	3976	3982	3988
100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Total Wells:

2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
326	326	326	327	327	328	328	329	329	330	330	330	332	332	333	333
8.16%	8.15%	8.14%	8.15%	8.14%	8.15%	8.14%	8.15%	8.14%	8.15%	8.14%	8.13%	8.17%	8.16%	8.17%	8.16%
1,588	1,590	1,595	1,598	1,599	1,601	1,603	1,604	1,608	1,610	1,613	1,616	1,617	1,617	1620	1623
39.76%	39.75%	39.82%	39.83%	39.80%	39.79%	39.78%	39.74%	39.78%	39.77%	39.79%	39.80%	39.77%	39.72%	39.74%	39.75%
1,136	1,139	1,140	1,141	1,142	1,144	1,146	1,148	1,150	1,152	1,153	1,155	1,157	1,159	1161	1163
28.44%	28.48%	28.46%	28.44%	28.42%	28.43%	28.44%	28.44%	28.45%	28.46%	28.44%	28.45%	28.46%	28.47%	28.48%	28.48%
220	220	220	221	221	221	222	222	222	222	223	223	224	224	224	224
5.51%	5.50%	5.49%	5.51%	5.50%	5.49%	5.51%	5.50%	5.49%	5.48%	5.50%	5.49%	5.51%	5.50%	5.49%	5.49%
365	366	366	366	368	368	368	369	369	370	371	371	371	372	372	373
9.14%	9.15%	9.14%	9.12%	9.16%	9.15%	9.13%	9.14%	9.13%	9.14%	9.15%	9.14%	9.12%	9.14%	9.12%	9.14%
89	89	89	89	91	91	91	91	91	91	91	91	91	91	91	91
2.23%	2.23%	2.22%	2.22%	2.26%	2.26%	2.26%	2.25%	2.25%	2.25%	2.24%	2.24%	2.24%	2.24%	2.23%	2.23%
55	55	55	55	55	56	56	56	56	56	56	56	56	56	56	56
1.38%	1.38%	1.37%	1.37%	1.37%	1.39%	1.39%	1.39%	1.39%	1.38%	1.38%	1.38%	1.38%	1.38%	1.37%	1.37%
25	25	25	25	25	25	25	25	25	25	25	25	25	26	26	26
0.63%	0.63%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.61%	0.64%	0.64%	0.64%
37	37	37	37	37	37	37	38	38	38	38	38	38	38	38	38
0.93%	0.93%	0.92%	0.92%	0.92%	0.92%	0.92%	0.94%	0.94%	0.94%	0.94%	0.94%	0.93%	0.93%	0.93%	0.93%
33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
0.83%	0.83%	0.82%	0.82%	0.82%	0.82%	0.82%	0.82%	0.82%	0.82%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%
31	31	31	31	31	31	31	31	31	31	31	32	32	32	32	32
0.78%	0.78%	0.77%	0.77%	0.77%	0.77%	0.77%	0.77%	0.77%	0.77%	0.76%	0.79%	0.79%	0.79%	0.78%	0.78%
41	41	41	41	41	41	41	41	41	41	41	41	41	42	42	42
1.03%	1.03%	1.02%	1.02%	1.02%	1.02%	1.02%	1.02%	1.01%	1.01%	1.01%	1.01%	1.01%	1.03%	1.03%	1.03%
36	36	36	36	36	36	37	37	37	37	37	37	37	37	37	37
0.90%	0.90%	0.90%	0.90%	0.90%	0.89%	0.92%	0.92%	0.92%	0.91%	0.91%	0.91%	0.91%	0.91%	0.91%	0.91%
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.24%
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%
3994	4000	4006	4012	4018	4024	4030	4036	4042	4048	4054	4060	4066	4071	4077	4083
100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

% Reduction for Tier 4i NOXGBHP	% Reduction for Tier 4f NOXGBHP	% Reduction for Tier 4i ROGGBHP	% Reduction for Tier 4f ROGGBHP	% Reduction for Tier 4i PM10GBHP	% Reduction for Tier 4f PM10GBHP
0.615487	0.955396539	0.733854356	0.733854356	0.981910894	0.981910894

Engines 75<hp<120 Percentages by Well Depth and Pollutant

Well Depth		NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
1000	% of total	0.160131	0.213105	0.129146	0.128807	0.30311	0.30311
2000	% of total	0.152736	0.204578	0.122715	0.122407	0.292327	0.292328
3000	% of total	0.148175	0.199263	0.118772	0.118484	0.285556	0.285556
4000	% of total	0.14508	0.195632	0.116107	0.115833	0.280908	0.280908
5000	% of total	0.141149	0.190992	0.112734	0.112475	0.274941	0.274941
6000	% of total	0.068982	0.107343	0.058311	0.058241	0.163324	0.163324
7000	% of total	0.068058	0.10602	0.057511	0.057444	0.161438	0.161438
8000	% of total	0.067131	0.104689	0.05671	0.056644	0.159539	0.159539
9000	% of total	0.066511	0.103798	0.056174	0.05611	0.158264	0.158264
10000	% of total	0.065836	0.102825	0.05559	0.055527	0.156872	0.156872
11000	% of total	0.053542	0.08513	0.045168	0.045126	0.131502	0.131502
12000	% of total	0.053207	0.084631	0.044879	0.044838	0.13077	0.13077
13000	% of total	0.052957	0.084258	0.044665	0.044624	0.130224	0.130224
14000	% of total	0.05275	0.08395	0.044487	0.044447	0.129772	0.129772
15000	% of total	0.052586	0.083705	0.044346	0.044306	0.129413	0.129413

Drilled Well Percentages by Year Associated with Each Well Depth

2012	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
0.089917	0.081442	0.08136	0.081237	0.081617	0.081494	0.081622	0.0815	0.081378	0.081505	0.081384
0.416863	0.397126	0.397229	0.397636	0.397288	0.397693	0.397596	0.3975	0.398153	0.398305	0.397959
0.274175	0.284418	0.284635	0.284457	0.28453	0.284353	0.284427	0.28475	0.284573	0.284397	0.284221
0.051297	0.054967	0.054912	0.05508	0.054997	0.054915	0.055083	0.055	0.054918	0.055085	0.055002
0.088443	0.091528	0.091436	0.091298	0.091411	0.091525	0.091387	0.0915	0.091363	0.091226	0.091588
0.020342	0.022441	0.022418	0.022384	0.022351	0.022317	0.022283	0.02225	0.022217	0.022183	0.022648
0.012972	0.013868	0.013854	0.013833	0.013812	0.013791	0.013771	0.01375	0.013729	0.013709	0.013688
0.006781	0.006304	0.006297	0.006288	0.006278	0.006269	0.006259	0.00625	0.006241	0.006231	0.006222
0.009729	0.009329	0.00932	0.009306	0.009292	0.009278	0.009264	0.00925	0.009236	0.009222	0.009209
0.006191	0.008321	0.008312	0.0083	0.008287	0.008275	0.008262	0.00825	0.008238	0.008225	0.008213
0.00737	0.007816	0.007809	0.007797	0.007785	0.007773	0.007762	0.00775	0.007738	0.007727	0.007715
0.00796	0.010338	0.010327	0.010312	0.010296	0.010281	0.010265	0.01025	0.010235	0.010219	0.010204
0.005896	0.009077	0.009068	0.009054	0.009041	0.009027	0.009014	0.009	0.008987	0.008973	0.00896
0.001769	0.002521	0.002519	0.002515	0.002511	0.002508	0.002504	0.0025	0.002496	0.002493	0.002489
0.000295	0.000504	0.000504	0.000503	0.000502	0.000502	0.000501	0.0005	0.000499	0.000499	0.000498

Combined Percentages for Engines 75<hp<120 and Drilled Wells

	2012						2015						2016					
	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
1000	0.014399	0.019162	0.011613	0.011582	0.027255	0.027255	0.013041	0.017356	0.010518	0.01049	0.024686	0.024686	0.013028	0.017338	0.010507	0.01048	0.024661	0.024661
2000	0.06367	0.085281	0.051155	0.051027	0.121861	0.121861	0.060656	0.081243	0.048733	0.048611	0.116091	0.116091	0.060671	0.081264	0.048746	0.048624	0.116121	0.116121
3000	0.040626	0.054633	0.032564	0.032485	0.078292	0.078292	0.042144	0.056674	0.033781	0.033699	0.081217	0.081217	0.042176	0.056717	0.033807	0.033725	0.081279	0.081279
4000	0.007442	0.010035	0.005956	0.005942	0.01441	0.01441	0.007975	0.010753	0.006382	0.006367	0.015441	0.015441	0.007967	0.010743	0.006376	0.006361	0.015425	0.015425
5000	0.012484	0.016892	0.009971	0.009948	0.024317	0.024317	0.012919	0.017481	0.010318	0.010295	0.025165	0.025165	0.012906	0.017464	0.010308	0.010284	0.025139	0.025139
6000	0.001403	0.002184	0.001186	0.001185	0.003322	0.003322	0.001548	0.002409	0.001309	0.001307	0.003665	0.003665	0.001546	0.002406	0.001307	0.001306	0.003661	0.003661
7000	0.000883	0.001375	0.000746	0.000745	0.002094	0.002094	0.000944	0.00147	0.000798	0.000797	0.002239	0.002239	0.000943	0.001469	0.000797	0.000796	0.002237	0.002237
8000	0.000455	0.00071	0.000385	0.000384	0.001082	0.001082	0.000423	0.00066	0.000357	0.000357	0.001006	0.001006	0.000423	0.000659	0.000357	0.000357	0.001005	0.001005
9000	0.000647	0.00101	0.000547	0.000546	0.00154	0.00154	0.000621	0.000968	0.000524	0.000523	0.001476	0.001476	0.00062	0.000967	0.000524	0.000523	0.001475	0.001475
10000	0.000408	0.000637	0.000344	0.000344	0.000971	0.000971	0.000548	0.000856	0.000463	0.000462	0.001305	0.001305	0.000547	0.000855	0.000462	0.000462	0.001304	0.001304
11000	0.000395	0.000627	0.000333	0.000333	0.000969	0.000969	0.000419	0.000665	0.000353	0.000353	0.001028	0.001028	0.000418	0.000665	0.000353	0.000352	0.001027	0.001027
12000	0.000424	0.000674	0.000357	0.000357	0.001041	0.001041	0.00055	0.000875	0.000464	0.000464	0.001352	0.001352	0.000549	0.000874	0.000463	0.000463	0.001351	0.001351
13000	0.000312	0.000497	0.000263	0.000263	0.000768	0.000768	0.000481	0.000765	0.000405	0.000405	0.001182	0.001182	0.00048	0.000764	0.000405	0.000405	0.001181	0.001181
14000	9.33E-05	0.000148	7.87E-05	7.86E-05	0.00023	0.00023	0.000133	0.000212	0.000112	0.000112	0.000327	0.000327	0.000133	0.000211	0.000112	0.000112	0.000327	0.000327
15000	1.55E-05	2.47E-05	1.31E-05	1.31E-05	3.82E-05	3.82E-05	2.65E-05	4.22E-05	2.24E-05	2.23E-05	6.53E-05	6.53E-05	2.65E-05	4.22E-05	2.23E-05	2.23E-05	6.52E-05	6.52E-05

% Reduction for Tier 4i NOXGBHP	% Reduction for Tier 4f NOXGBHP	% Reduction for Tier 4i ROGGBHP	% Reduction for Tier 4f ROGGBHP	% Reduction for Tier 4i PM10GBHP	% Reduction for Tier 4f PM10GBHP
0.615487	0.955397	0.733854	0.733854	0.981911	0.981911

2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
0.081511	0.08139	0.081516	0.081395	0.081522	0.081401	0.081281	0.081653	0.081552	0.081678	0.081558
0.397863	0.397767	0.397423	0.397823	0.397727	0.397879	0.39803	0.397688	0.3972	0.397351	0.397502
0.284294	0.284367	0.28444	0.284513	0.284585	0.28441	0.284483	0.284555	0.284697	0.284768	0.28484
0.05492	0.055087	0.055005	0.054923	0.054842	0.055007	0.054926	0.055091	0.055023	0.054942	0.054862
0.091451	0.091315	0.091427	0.091291	0.091403	0.091515	0.091379	0.091244	0.091378	0.091244	0.091354
0.022614	0.022581	0.022547	0.022514	0.02248	0.022447	0.022414	0.022381	0.022353	0.02232	0.022288
0.013917	0.013896	0.013875	0.013855	0.013834	0.013814	0.013793	0.013773	0.013756	0.013736	0.013715
0.006213	0.006203	0.006194	0.006185	0.006176	0.006167	0.006158	0.006149	0.006387	0.006377	0.006368
0.009195	0.009181	0.009415	0.009401	0.009387	0.009373	0.00936	0.009346	0.009334	0.009321	0.009307
0.008201	0.008189	0.008176	0.008164	0.008152	0.00814	0.008128	0.008116	0.008106	0.008094	0.008082
0.007704	0.007692	0.007681	0.007669	0.007658	0.007647	0.007882	0.00787	0.00786	0.007849	0.007837
0.010189	0.010174	0.010159	0.010143	0.010128	0.010113	0.010099	0.010084	0.010317	0.010302	0.010287
0.008946	0.009181	0.009167	0.009154	0.00914	0.009127	0.009113	0.0091	0.009089	0.009075	0.009062
0.002485	0.002481	0.002478	0.002474	0.00247	0.002467	0.002463	0.002459	0.002456	0.002453	0.002449
0.000497	0.000496	0.000496	0.000495	0.000494	0.000493	0.000493	0.000492	0.000491	0.000491	0.00049

2017						2018						2019						20		
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	
0.017312	0.010492	0.010464	0.024624	0.024624	0.013069	0.017393	0.010541	0.010513	0.024739	0.024739	0.01305	0.017367	0.010525	0.010497	0.024702	0.024702	0.01307	0.017394	0.010541	
0.081347	0.048796	0.048673	0.11624	0.11624	0.06068	0.081276	0.048753	0.048631	0.116138	0.116138	0.060742	0.081359	0.048803	0.04868	0.116257	0.116257	0.060727	0.081339	0.048791	
0.056682	0.033785	0.033703	0.081228	0.081228	0.04216	0.056696	0.033794	0.033712	0.081249	0.081249	0.042134	0.056661	0.033773	0.033691	0.081199	0.081199	0.042145	0.056676	0.033782	
0.010776	0.006395	0.00638	0.015473	0.015473	0.007979	0.010759	0.006386	0.006371	0.015449	0.015449	0.007967	0.010743	0.006376	0.006361	0.015426	0.015426	0.007991	0.010776	0.006395	
0.017437	0.010292	0.010269	0.025101	0.025101	0.012903	0.017459	0.010305	0.010282	0.025133	0.025133	0.012919	0.01748	0.010318	0.010294	0.025164	0.025164	0.012899	0.017454	0.010302	
0.002403	0.001305	0.001304	0.003656	0.003656	0.001542	0.002399	0.001303	0.001302	0.00365	0.00365	0.001539	0.002396	0.001301	0.0013	0.003645	0.003645	0.001537	0.002392	0.001299	
0.001467	0.000796	0.000795	0.002233	0.002233	0.00094	0.001464	0.000794	0.000793	0.00223	0.00223	0.000939	0.001462	0.000793	0.000792	0.002226	0.002226	0.000937	0.00146	0.000792	
0.000658	0.000357	0.000356	0.001003	0.001003	0.000421	0.000657	0.000356	0.000356	0.001002	0.001002	0.000421	0.000656	0.000356	0.000355	0.001	0.001	0.00042	0.000655	0.000355	
0.000966	0.000523	0.000522	0.001473	0.001473	0.000618	0.000964	0.000522	0.000521	0.001471	0.001471	0.000617	0.000963	0.000521	0.000521	0.001468	0.001468	0.000616	0.000962	0.00052	
0.000853	0.000461	0.000461	0.001302	0.001302	0.000546	0.000852	0.000461	0.00046	0.0013	0.0013	0.000545	0.000851	0.00046	0.000459	0.001298	0.001298	0.000544	0.00085	0.000459	
0.000664	0.000352	0.000352	0.001025	0.001025	0.000417	0.000663	0.000352	0.000351	0.001024	0.001024	0.000416	0.000662	0.000351	0.000351	0.001022	0.001022	0.000416	0.000661	0.000351	
0.000873	0.000463	0.000462	0.001348	0.001348	0.000548	0.000871	0.000462	0.000462	0.001346	0.001346	0.000547	0.00087	0.000461	0.000461	0.001344	0.001344	0.000546	0.000869	0.000461	
0.000763	0.000404	0.000404	0.001179	0.001179	0.000479	0.000762	0.000404	0.000403	0.001177	0.001177	0.000478	0.000761	0.000403	0.000403	0.001176	0.001176	0.000477	0.000759	0.000403	
0.000211	0.000112	0.000112	0.000326	0.000326	0.000132	0.000211	0.000112	0.000112	0.000326	0.000326	0.000132	0.000211	0.000112	0.000111	0.000325	0.000325	0.000132	0.00021	0.000111	
4.21E-05	2.23E-05	2.23E-05	6.51E-05	6.51E-05	2.64E-05	4.2E-05	2.23E-05	2.23E-05	6.5E-05	6.5E-05	2.64E-05	4.2E-05	2.22E-05	2.22E-05	6.49E-05	6.49E-05	2.63E-05	4.19E-05	2.22E-05	

20						2021						2022						2023		
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON
0.010514	0.024741	0.024741	0.013051	0.017368	0.010525	0.010498	0.024703	0.024703	0.013031	0.017342	0.01051	0.010482	0.024666	0.024666	0.013052	0.017369	0.010526	0.010498	0.024705
0.048668	0.116228	0.116228	0.060713	0.08132	0.048779	0.048657	0.1162	0.1162	0.060812	0.081453	0.048859	0.048737	0.116391	0.116391	0.060836	0.081484	0.048878	0.048755	0.116436
0.0337	0.08122	0.08122	0.042193	0.05674	0.03382	0.033738	0.081312	0.081312	0.042167	0.056705	0.033799	0.033717	0.081261	0.081261	0.04214	0.05667	0.033778	0.033696	0.081211
0.00638	0.015473	0.015473	0.007979	0.01076	0.006386	0.006371	0.01545	0.01545	0.007967	0.010744	0.006376	0.006361	0.015427	0.015427	0.007992	0.010776	0.006396	0.006381	0.015474
0.010279	0.025126	0.025126	0.012915	0.017476	0.010315	0.010292	0.025157	0.025157	0.012896	0.01745	0.0103	0.010276	0.025119	0.025119	0.012877	0.017424	0.010284	0.010261	0.025082
0.001298	0.003639	0.003639	0.001535	0.002388	0.001297	0.001296	0.003634	0.003634	0.001533	0.002385	0.001295	0.001294	0.003629	0.003629	0.00153	0.002381	0.001294	0.001292	0.003623
0.000791	0.002223	0.002223	0.000936	0.001458	0.000791	0.00079	0.00222	0.00222	0.000934	0.001456	0.00079	0.000789	0.002216	0.002216	0.000933	0.001453	0.000788	0.000787	0.002213
0.000355	0.000999	0.000999	0.00042	0.000654	0.000354	0.000354	0.000997	0.000997	0.000419	0.000653	0.000354	0.000353	0.000996	0.000996	0.000418	0.000652	0.000353	0.000353	0.000994
0.00052	0.001466	0.001466	0.000615	0.00096	0.00052	0.000519	0.001464	0.001464	0.000614	0.000959	0.000519	0.000518	0.001462	0.001462	0.000613	0.000957	0.000518	0.000517	0.00146
0.000459	0.001296	0.001296	0.000543	0.000848	0.000459	0.000458	0.001294	0.001294	0.000542	0.000847	0.000458	0.000457	0.001292	0.001292	0.000542	0.000846	0.000457	0.000457	0.00129
0.00035	0.001021	0.001021	0.000415	0.00066	0.00035	0.00035	0.001019	0.001019	0.000414	0.000659	0.00035	0.000349	0.001018	0.001018	0.000414	0.000658	0.000349	0.000349	0.001016
0.00046	0.001342	0.001342	0.000545	0.000867	0.00046	0.00046	0.00134	0.00134	0.000545	0.000866	0.000459	0.000459	0.001338	0.001338	0.000544	0.000865	0.000459	0.000458	0.001336
0.000402	0.001174	0.001174	0.000477	0.000758	0.000402	0.000402	0.001172	0.001172	0.000476	0.000757	0.000401	0.000401	0.00117	0.00117	0.000475	0.000756	0.000401	0.0004	0.001169
0.000111	0.000325	0.000325	0.000132	0.00021	0.000111	0.000111	0.000324	0.000324	0.000132	0.00021	0.000111	0.000111	0.000324	0.000324	0.000131	0.000209	0.000111	0.000111	0.000323
2.22E-05	6.48E-05	6.48E-05	2.63E-05	4.19E-05	2.22E-05	2.22E-05	6.47E-05	6.47E-05	2.63E-05	4.18E-05	2.21E-05	2.21E-05	6.46E-05	6.46E-05	2.62E-05	4.17E-05	2.21E-05	2.21E-05	6.45E-05

2024						2025						2026								
PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
0.024705	0.013032	0.017343	0.01051	0.010483	0.024668	0.024668	0.013052	0.01737	0.010527	0.010499	0.024707	0.024707	0.013033	0.017344	0.010511	0.010484	0.02467	0.02467	0.013053
0.116436	0.060783	0.081414	0.048836	0.048713	0.116334	0.116334	0.060768	0.081394	0.048824	0.048701	0.116306	0.116306	0.060753	0.081374	0.048812	0.048689	0.116278	0.116278	0.060701
0.081211	0.042114	0.056635	0.033757	0.033676	0.081161	0.081161	0.042125	0.056649	0.033766	0.033684	0.081182	0.081182	0.042136	0.056664	0.033775	0.033693	0.081203	0.081203	0.042147
0.015474	0.00798	0.01076	0.006386	0.006371	0.015451	0.015451	0.007968	0.010744	0.006377	0.006362	0.015428	0.015428	0.007992	0.010777	0.006396	0.006381	0.015474	0.015474	0.00798
0.025082	0.012928	0.017493	0.010325	0.010301	0.025181	0.025181	0.012908	0.017466	0.01031	0.010286	0.025144	0.025144	0.012889	0.01744	0.010294	0.010271	0.025106	0.025106	0.012905
0.003623	0.001562	0.002431	0.001321	0.001319	0.003699	0.003699	0.00156	0.002427	0.001319	0.001317	0.003693	0.003693	0.001558	0.002424	0.001317	0.001315	0.003688	0.003688	0.001555
0.002213	0.000932	0.001451	0.000787	0.000786	0.00221	0.00221	0.000947	0.001475	0.0008	0.000799	0.002247	0.002247	0.000946	0.001473	0.000799	0.000798	0.002243	0.002243	0.000944
0.000994	0.000418	0.000651	0.000353	0.000352	0.000993	0.000993	0.000417	0.00065	0.000352	0.000352	0.000991	0.000991	0.000416	0.000649	0.000352	0.000351	0.00099	0.00099	0.000416
0.00146	0.000612	0.000956	0.000517	0.000517	0.001457	0.001457	0.000612	0.000954	0.000517	0.000516	0.001455	0.001455	0.000611	0.000953	0.000516	0.000515	0.001453	0.001453	0.000626
0.00129	0.000541	0.000845	0.000457	0.000456	0.001288	0.001288	0.00054	0.000843	0.000456	0.000455	0.001286	0.001286	0.000539	0.000842	0.000455	0.000455	0.001285	0.001285	0.000538
0.001016	0.000413	0.000657	0.000348	0.000348	0.001015	0.001015	0.000412	0.000656	0.000348	0.000348	0.001013	0.001013	0.000412	0.000655	0.000347	0.000347	0.001012	0.001012	0.000411
0.001336	0.000543	0.000864	0.000458	0.000458	0.001334	0.001334	0.000542	0.000862	0.000457	0.000457	0.001332	0.001332	0.000541	0.000861	0.000457	0.000456	0.00133	0.00133	0.000541
0.001169	0.000474	0.000755	0.0004	0.0004	0.001167	0.001167	0.000474	0.000754	0.0004	0.000399	0.001165	0.001165	0.000486	0.000774	0.00041	0.00041	0.001196	0.001196	0.000485
0.000323	0.000131	0.000209	0.000111	0.000111	0.000323	0.000323	0.000131	0.000209	0.000111	0.00011	0.000322	0.000322	0.000131	0.000208	0.00011	0.00011	0.000322	0.000322	0.000131
6.45E-05	2.62E-05	4.17E-05	2.21E-05	2.21E-05	6.44E-05	6.44E-05	2.61E-05	4.16E-05	2.2E-05	2.2E-05	6.43E-05	6.43E-05	2.61E-05	4.15E-05	2.2E-05	2.2E-05	6.42E-05	6.42E-05	2.61E-05

2027						2028						2029						20	
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON
0.017372	0.010528	0.0105	0.024708	0.024708	0.013034	0.017346	0.010512	0.010484	0.024672	0.024672	0.013054	0.017373	0.010528	0.010501	0.02471	0.02471	0.013035	0.017347	0.010513
0.081304	0.04877	0.048647	0.116178	0.116178	0.060762	0.081386	0.048819	0.048696	0.116295	0.116295	0.060747	0.081366	0.048807	0.048684	0.116267	0.116267	0.060771	0.081397	0.048826
0.056678	0.033783	0.033701	0.081223	0.081223	0.042158	0.056693	0.033792	0.03371	0.081244	0.081244	0.042168	0.056707	0.033801	0.033719	0.081265	0.081265	0.042142	0.056672	0.03378
0.010761	0.006386	0.006371	0.015451	0.015451	0.007968	0.010745	0.006377	0.006362	0.015428	0.015428	0.007956	0.010729	0.006368	0.006352	0.015406	0.015406	0.00798	0.010761	0.006387
0.017462	0.010307	0.010283	0.025137	0.025137	0.012886	0.017436	0.010292	0.010268	0.0251	0.0251	0.012901	0.017457	0.010304	0.010281	0.02513	0.02513	0.012917	0.017479	0.010317
0.00242	0.001315	0.001313	0.003682	0.003682	0.001553	0.002417	0.001313	0.001311	0.003677	0.003677	0.001551	0.002413	0.001311	0.001309	0.003672	0.003672	0.001548	0.00241	0.001309
0.001471	0.000798	0.000797	0.00224	0.00224	0.000943	0.001469	0.000797	0.000796	0.002237	0.002237	0.000942	0.001467	0.000796	0.000795	0.002233	0.002233	0.00094	0.001465	0.000794
0.000648	0.000351	0.000351	0.000988	0.000988	0.000415	0.000648	0.000351	0.00035	0.000987	0.000987	0.000415	0.000647	0.00035	0.00035	0.000985	0.000985	0.000414	0.000646	0.00035
0.000977	0.000529	0.000528	0.00149	0.00149	0.000625	0.000976	0.000528	0.000528	0.001488	0.001488	0.000624	0.000974	0.000527	0.000527	0.001486	0.001486	0.000623	0.000973	0.000527
0.000841	0.000455	0.000454	0.001283	0.001283	0.000538	0.000839	0.000454	0.000453	0.001281	0.001281	0.000537	0.000838	0.000453	0.000453	0.001279	0.001279	0.000536	0.000837	0.000453
0.000654	0.000347	0.000347	0.00101	0.00101	0.000411	0.000653	0.000346	0.000346	0.001009	0.001009	0.00041	0.000652	0.000346	0.000346	0.001007	0.001007	0.000409	0.000651	0.000345
0.00086	0.000456	0.000455	0.001328	0.001328	0.00054	0.000858	0.000455	0.000455	0.001326	0.001326	0.000539	0.000857	0.000455	0.000454	0.001324	0.001324	0.000538	0.000856	0.000454
0.000772	0.000409	0.000409	0.001194	0.001194	0.000485	0.000771	0.000409	0.000408	0.001192	0.001192	0.000484	0.00077	0.000408	0.000408	0.00119	0.00119	0.000483	0.000769	0.000408
0.000208	0.00011	0.00011	0.000322	0.000322	0.000131	0.000208	0.00011	0.00011	0.000321	0.000321	0.00013	0.000207	0.00011	0.00011	0.000321	0.000321	0.00013	0.000207	0.00011
4.15E-05	2.2E-05	2.2E-05	6.41E-05	6.41E-05	2.6E-05	4.14E-05	2.19E-05	2.19E-05	6.4E-05	6.4E-05	2.6E-05	4.14E-05	2.19E-05	2.19E-05	6.39E-05	6.39E-05	2.59E-05	4.13E-05	2.19E-05

30						2031						2032						2033		
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON
0.010485	0.024673	0.024673	0.013016	0.017321	0.010497	0.01047	0.024637	0.024637	0.013075	0.017401	0.010545	0.010517	0.02475	0.02475	0.013059	0.017379	0.010532	0.010505	0.024719
0.048703	0.116311	0.116311	0.060794	0.081428	0.048844	0.048721	0.116355	0.116355	0.060741	0.081358	0.048802	0.04868	0.116255	0.116255	0.060667	0.081258	0.048742	0.04862	0.116112
0.033698	0.081215	0.081215	0.042153	0.056687	0.033788	0.033707	0.081236	0.081236	0.042164	0.056701	0.033797	0.033715	0.081256	0.081256	0.042185	0.056729	0.033814	0.033732	0.081297
0.006372	0.015452	0.015452	0.007969	0.010745	0.006377	0.006362	0.015429	0.015429	0.007993	0.010778	0.006396	0.006381	0.015475	0.015475	0.007983	0.010764	0.006389	0.006374	0.015456
0.010293	0.025161	0.025161	0.012898	0.017453	0.010302	0.010278	0.025124	0.025124	0.012879	0.017427	0.010286	0.010263	0.025087	0.025087	0.012898	0.017452	0.010301	0.010278	0.025124
0.001307	0.003666	0.003666	0.001546	0.002406	0.001307	0.001305	0.003661	0.003661	0.001544	0.002402	0.001305	0.001303	0.003655	0.003655	0.001542	0.002399	0.001303	0.001302	0.003651
0.000794	0.00223	0.00223	0.000939	0.001462	0.000793	0.000792	0.002227	0.002227	0.000937	0.00146	0.000792	0.000791	0.002223	0.002223	0.000936	0.001458	0.000791	0.00079	0.002221
0.000349	0.000984	0.000984	0.000413	0.000645	0.000349	0.000349	0.000982	0.000982	0.000413	0.000644	0.000349	0.000348	0.000981	0.000981	0.000429	0.000669	0.000362	0.000362	0.001019
0.000526	0.001483	0.001483	0.000623	0.000972	0.000526	0.000525	0.001481	0.001481	0.000622	0.00097	0.000525	0.000524	0.001479	0.001479	0.000621	0.000969	0.000524	0.000524	0.001477
0.000452	0.001277	0.001277	0.000535	0.000836	0.000452	0.000451	0.001275	0.001275	0.000534	0.000835	0.000451	0.000451	0.001273	0.001273	0.000534	0.000834	0.000451	0.00045	0.001272
0.000345	0.001006	0.001006	0.000422	0.000671	0.000356	0.000356	0.001036	0.001036	0.000421	0.00067	0.000355	0.000355	0.001035	0.001035	0.000421	0.000669	0.000355	0.000355	0.001034
0.000453	0.001323	0.001323	0.000537	0.000855	0.000453	0.000453	0.001321	0.001321	0.000537	0.000853	0.000453	0.000452	0.001319	0.001319	0.000549	0.000873	0.000463	0.000463	0.001349
0.000407	0.001189	0.001189	0.000483	0.000768	0.000407	0.000407	0.001187	0.001187	0.000482	0.000767	0.000406	0.000406	0.001185	0.001185	0.000481	0.000766	0.000406	0.000406	0.001184
0.00011	0.00032	0.00032	0.00013	0.000207	0.00011	0.000109	0.00032	0.00032	0.00013	0.000206	0.000109	0.000109	0.000319	0.000319	0.00013	0.000206	0.000109	0.000109	0.000319
2.19E-05	6.38E-05	6.38E-05	2.59E-05	4.12E-05	2.18E-05	2.18E-05	6.38E-05	6.38E-05	2.59E-05	4.12E-05	2.18E-05	2.18E-05	6.37E-05	6.37E-05	2.58E-05	4.11E-05	2.18E-05	2.18E-05	6.36E-05

2034						2035					
PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
0.024719	0.013079	0.017406	0.010548	0.010521	0.024757	0.024757	0.01306	0.01738	0.010533	0.010505	0.024721	0.024721
0.116112	0.06069	0.081289	0.048761	0.048638	0.116157	0.116157	0.060713	0.08132	0.048779	0.048657	0.116201	0.116201
0.081297	0.042195	0.056744	0.033822	0.03374	0.081317	0.081317	0.042206	0.056758	0.033831	0.033749	0.081338	0.081338
0.015456	0.007971	0.010748	0.006379	0.006364	0.015434	0.015434	0.007959	0.010733	0.00637	0.006355	0.015411	0.015411
0.025124	0.012879	0.017427	0.010286	0.010263	0.025087	0.025087	0.012895	0.017448	0.010299	0.010275	0.025117	0.025117
0.003651	0.00154	0.002396	0.001302	0.0013	0.003645	0.003645	0.001537	0.002392	0.0013	0.001298	0.00364	0.00364
0.002221	0.000935	0.001456	0.00079	0.000789	0.002217	0.002217	0.000933	0.001454	0.000789	0.000788	0.002214	0.002214
0.001019	0.000428	0.000668	0.000362	0.000361	0.001017	0.001017	0.000427	0.000667	0.000361	0.000361	0.001016	0.001016
0.001477	0.00062	0.000967	0.000524	0.000523	0.001475	0.001475	0.000619	0.000966	0.000523	0.000522	0.001473	0.001473
0.001272	0.000533	0.000832	0.00045	0.000449	0.00127	0.00127	0.000532	0.000831	0.000449	0.000449	0.001268	0.001268
0.001034	0.00042	0.000668	0.000355	0.000354	0.001032	0.001032	0.00042	0.000667	0.000354	0.000354	0.001031	0.001031
0.001349	0.000548	0.000872	0.000462	0.000462	0.001347	0.001347	0.000547	0.000871	0.000462	0.000461	0.001345	0.001345
0.001184	0.000481	0.000765	0.000405	0.000405	0.001182	0.001182	0.00048	0.000764	0.000405	0.000404	0.00118	0.00118
0.000319	0.000129	0.000206	0.000109	0.000109	0.000318	0.000318	0.000129	0.000206	0.000109	0.000109	0.000318	0.000318
6.36E-05	2.58E-05	4.11E-05	2.18E-05	2.17E-05	6.35E-05	6.35E-05	2.58E-05	4.1E-05	2.17E-05	2.17E-05	6.34E-05	6.34E-05

Final % Reduction GivenTier 4i

	2012						2015						2016					
	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
1000	0.008862	0.014062	No Reduct	No Reduct	0.026762	0.026762	0.008027	0.012737	No Reduct	No Reduct	0.024239	0.024239	0.008019	0.012724	No Reduct	No Reduct	0.024215	0.024215	0.008007
2000	0.039188	0.062584	No Reduct	No Reduct	0.119656	0.119656	0.037333	0.059621	No Reduct	No Reduct	0.113991	0.113991	0.037342	0.059636	No Reduct	No Reduct	0.11402	0.114021	0.037381
3000	0.025005	0.040092	No Reduct	No Reduct	0.076876	0.076876	0.025939	0.04159	No Reduct	No Reduct	0.079748	0.079748	0.025959	0.041622	No Reduct	No Reduct	0.079809	0.079809	0.025942
4000	0.004581	0.007365	No Reduct	No Reduct	0.014149	0.014149	0.004908	0.007891	No Reduct	No Reduct	0.015161	0.015161	0.004903	0.007883	No Reduct	No Reduct	0.015146	0.015146	0.004918
5000	0.007684	0.012396	No Reduct	No Reduct	0.023877	0.023877	0.007952	0.012829	No Reduct	No Reduct	0.02471	0.02471	0.007944	0.012816	No Reduct	No Reduct	0.024685	0.024685	0.007932
6000	0.000864	0.001602	No Reduct	No Reduct	0.003262	0.003262	0.000953	0.001768	No Reduct	No Reduct	0.003599	0.003599	0.000952	0.001766	No Reduct	No Reduct	0.003595	0.003595	0.00095
7000	0.000543	0.001009	No Reduct	No Reduct	0.002056	0.002056	0.000581	0.001079	No Reduct	No Reduct	0.002198	0.002198	0.00058	0.001078	No Reduct	No Reduct	0.002196	0.002196	0.000579
8000	0.00028	0.000521	No Reduct	No Reduct	0.001062	0.001062	0.00026	0.000484	No Reduct	No Reduct	0.000987	0.000987	0.00026	0.000484	No Reduct	No Reduct	0.000986	0.000986	0.00026
9000	0.000398	0.000741	No Reduct	No Reduct	0.001512	0.001512	0.000382	0.000711	No Reduct	No Reduct	0.00145	0.00145	0.000382	0.00071	No Reduct	No Reduct	0.001448	0.001448	0.000381
10000	0.000251	0.000467	No Reduct	No Reduct	0.000954	0.000954	0.000337	0.000628	No Reduct	No Reduct	0.001282	0.001282	0.000337	0.000627	No Reduct	No Reduct	0.00128	0.00128	0.000336
11000	0.000243	0.00046	No Reduct	No Reduct	0.000952	0.000952	0.000258	0.000488	No Reduct	No Reduct	0.001009	0.001009	0.000257	0.000488	No Reduct	No Reduct	0.001008	0.001008	0.000257
12000	0.000261	0.000494	No Reduct	No Reduct	0.001022	0.001022	0.000339	0.000642	No Reduct	No Reduct	0.001327	0.001327	0.000338	0.000641	No Reduct	No Reduct	0.001326	0.001326	0.000338
13000	0.000192	0.000365	No Reduct	No Reduct	0.000754	0.000754	0.000296	0.000561	No Reduct	No Reduct	0.001161	0.001161	0.000296	0.000561	No Reduct	No Reduct	0.00116	0.00116	0.000295
14000	5.74E-05	0.000109	No Reduct	No Reduct	0.000225	0.000225	8.19E-05	0.000155	No Reduct	No Reduct	0.000321	0.000321	8.18E-05	0.000155	No Reduct	No Reduct	0.000321	0.000321	8.17E-05
15000	9.54E-06	1.81E-05	No Reduct	No Reduct	3.75E-05	3.75E-05	1.63E-05	3.1E-05	No Reduct	No Reduct	6.41E-05	6.41E-05	1.63E-05	3.09E-05	No Reduct	No Reduct	6.4E-05	6.4E-05	1.63E-05

Final % Reduction GivenTier 4f

	2012						2015						2016					
	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
1000	0.013756	0.014062	No Reduct	No Reduct	0.026762	0.026762	0.01246	0.012737	No Reduct	No Reduct	0.024239	0.024239	0.012447	0.012724	No Reduct	No Reduct	0.024215	0.024215	0.012428
2000	0.06083	0.062584	No Reduct	No Reduct	0.119656	0.119656	0.05795	0.059621	No Reduct	No Reduct	0.113991	0.113991	0.057965	0.059636	No Reduct	No Reduct	0.11402	0.114021	0.058025
3000	0.038814	0.040092	No Reduct	No Reduct	0.076876	0.076876	0.040264	0.04159	No Reduct	No Reduct	0.079748	0.079748	0.040295	0.041622	No Reduct	No Reduct	0.079809	0.079809	0.040269
4000	0.00711	0.007365	No Reduct	No Reduct	0.014149	0.014149	0.007619	0.007891	No Reduct	No Reduct	0.015161	0.015161	0.007611	0.007883	No Reduct	No Reduct	0.015146	0.015146	0.007635
5000	0.011927	0.012396	No Reduct	No Reduct	0.023877	0.023877	0.012343	0.012829	No Reduct	No Reduct	0.02471	0.02471	0.01233	0.012816	No Reduct	No Reduct	0.024685	0.024685	0.012312
6000	0.001341	0.001602	No Reduct	No Reduct	0.003262	0.003262	0.001479	0.001768	No Reduct	No Reduct	0.003599	0.003599	0.001477	0.001766	No Reduct	No Reduct	0.003595	0.003595	0.001475
7000	0.000843	0.001009	No Reduct	No Reduct	0.002056	0.002056	0.000902	0.001079	No Reduct	No Reduct	0.002198	0.002198	0.000901	0.001078	No Reduct	No Reduct	0.002196	0.002196	0.000899
8000	0.000435	0.000521	No Reduct	No Reduct	0.001062	0.001062	0.000404	0.000484	No Reduct	No Reduct	0.000987	0.000987	0.000404	0.000484	No Reduct	No Reduct	0.000986	0.000986	0.000403
9000	0.000618	0.000741	No Reduct	No Reduct	0.001512	0.001512	0.000593	0.000711	No Reduct	No Reduct	0.00145	0.00145	0.000592	0.00071	No Reduct	No Reduct	0.001448	0.001448	0.000591
10000	0.000389	0.000467	No Reduct	No Reduct	0.000954	0.000954	0.000523	0.000628	No Reduct	No Reduct	0.001282	0.001282	0.000523	0.000627	No Reduct	No Reduct	0.00128	0.00128	0.000522
11000	0.000377	0.00046	No Reduct	No Reduct	0.000952	0.000952	0.0004	0.000488	No Reduct	No Reduct	0.001009	0.001009	0.000399	0.000488	No Reduct	No Reduct	0.001008	0.001008	0.000399
12000	0.000405	0.000494	No Reduct	No Reduct	0.001022	0.001022	0.000526	0.000642	No Reduct	No Reduct	0.001327	0.001327	0.000525	0.000641	No Reduct	No Reduct	0.001326	0.001326	0.000524
13000	0.000298	0.000365	No Reduct	No Reduct	0.000754	0.000754	0.000459	0.000561	No Reduct	No Reduct	0.001161	0.001161	0.000459	0.000561	No Reduct	No Reduct	0.00116	0.00116	0.000458
14000	8.91E-05	0.000109	No Reduct	No Reduct	0.000225	0.000225	0.000127	0.000155	No Reduct	No Reduct	0.000321	0.000321	0.000127	0.000155	No Reduct	No Reduct	0.000321	0.000321	0.000127
15000	1.48E-05	1.81E-05	No Reduct	No Reduct	3.75E-05	3.75E-05	2.53E-05	3.1E-05	No Reduct	No Reduct	6.41E-05	6.41E-05	2.53E-05	3.09E-05	No Reduct	No Reduct	6.4E-05	6.4E-05	2.53E-05

2017						2018						2019						20
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON
0.012705	No Reduct	No Reduct	0.024178	0.024178	0.008044	0.012764	No Reduct	No Reduct	0.024291	0.024291	0.008032	0.012745	No Reduct	No Reduct	0.024255	0.024255	0.008045	0.012765	No Reduct
0.059697	No Reduct	No Reduct	0.114137	0.114137	0.037348	0.059645	No Reduct	No Reduct	0.114037	0.114037	0.037386	0.059706	No Reduct	No Reduct	0.114154	0.114154	0.037377	0.059691	No Reduct
0.041596	No Reduct	No Reduct	0.079759	0.079759	0.025949	0.041607	No Reduct	No Reduct	0.07978	0.07978	0.025933	0.041581	No Reduct	No Reduct	0.07973	0.07973	0.02594	0.041592	No Reduct
0.007908	No Reduct	No Reduct	0.015193	0.015193	0.004911	0.007896	No Reduct	No Reduct	0.01517	0.01517	0.004904	0.007884	No Reduct	No Reduct	0.015147	0.015147	0.004919	0.007908	No Reduct
0.012796	No Reduct	No Reduct	0.024647	0.024647	0.007941	0.012812	No Reduct	No Reduct	0.024678	0.024678	0.007951	0.012828	No Reduct	No Reduct	0.024709	0.024709	0.007939	0.012809	No Reduct
0.001763	No Reduct	No Reduct	0.00359	0.00359	0.000949	0.001761	No Reduct	No Reduct	0.003584	0.003584	0.000948	0.001758	No Reduct	No Reduct	0.003579	0.003579	0.000946	0.001755	No Reduct
0.001076	No Reduct	No Reduct	0.002193	0.002193	0.000579	0.001075	No Reduct	No Reduct	0.002189	0.002189	0.000578	0.001073	No Reduct	No Reduct	0.002186	0.002186	0.000577	0.001071	No Reduct
0.000483	No Reduct	No Reduct	0.000985	0.000985	0.000259	0.000482	No Reduct	No Reduct	0.000984	0.000984	0.000259	0.000482	No Reduct	No Reduct	0.000982	0.000982	0.000259	0.000481	No Reduct
0.000709	No Reduct	No Reduct	0.001446	0.001446	0.00038	0.000708	No Reduct	No Reduct	0.001444	0.001444	0.00038	0.000707	No Reduct	No Reduct	0.001442	0.001442	0.000379	0.000706	No Reduct
0.000626	No Reduct	No Reduct	0.001278	0.001278	0.000336	0.000625	No Reduct	No Reduct	0.001277	0.001277	0.000335	0.000624	No Reduct	No Reduct	0.001275	0.001275	0.000335	0.000623	No Reduct
0.000487	No Reduct	No Reduct	0.001007	0.001007	0.000257	0.000486	No Reduct	No Reduct	0.001005	0.001005	0.000256	0.000486	No Reduct	No Reduct	0.001004	0.001004	0.000256	0.000485	No Reduct
0.00064	No Reduct	No Reduct	0.001324	0.001324	0.000337	0.000639	No Reduct	No Reduct	0.001322	0.001322	0.000337	0.000639	No Reduct	No Reduct	0.00132	0.00132	0.000336	0.000638	No Reduct
0.00056	No Reduct	No Reduct	0.001158	0.001158	0.000295	0.000559	No Reduct	No Reduct	0.001156	0.001156	0.000294	0.000558	No Reduct	No Reduct	0.001154	0.001154	0.000294	0.000557	No Reduct
0.000155	No Reduct	No Reduct	0.00032	0.00032	8.15E-05	0.000155	No Reduct	No Reduct	0.00032	0.00032	8.14E-05	0.000154	No Reduct	No Reduct	0.00032	0.00032	8.13E-05	0.000154	No Reduct
3.09E-05	No Reduct	No Reduct	6.39E-05	6.39E-05	1.63E-05	3.09E-05	No Reduct	No Reduct	6.38E-05	6.38E-05	1.62E-05	3.08E-05	No Reduct	No Reduct	6.37E-05	6.37E-05	1.62E-05	3.08E-05	No Reduct

2017						2018						2019						20
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON
0.012705	No Reduct	No Reduct	0.024178	0.024178	0.012487	0.012764	No Reduct	No Reduct	0.024291	0.024291	0.012468	0.012745	No Reduct	No Reduct	0.024255	0.024255	0.012487	0.012765	No Reduct
0.059697	No Reduct	No Reduct	0.114137	0.114137	0.057974	0.059645	No Reduct	No Reduct	0.114037	0.114037	0.058033	0.059706	No Reduct	No Reduct	0.114154	0.114154	0.058019	0.059691	No Reduct
0.041596	No Reduct	No Reduct	0.079759	0.079759	0.04028	0.041607	No Reduct	No Reduct	0.07978	0.07978	0.040255	0.041581	No Reduct	No Reduct	0.07973	0.07973	0.040265	0.041592	No Reduct
0.007908	No Reduct	No Reduct	0.015193	0.015193	0.007623	0.007896	No Reduct	No Reduct	0.01517	0.01517	0.007612	0.007884	No Reduct	No Reduct	0.015147	0.015147	0.007635	0.007908	No Reduct
0.012796	No Reduct	No Reduct	0.024647	0.024647	0.012327	0.012812	No Reduct	No Reduct	0.024678	0.024678	0.012342	0.012828	No Reduct	No Reduct	0.024709	0.024709	0.012324	0.012809	No Reduct
0.001763	No Reduct	No Reduct	0.00359	0.00359	0.001473	0.001761	No Reduct	No Reduct	0.003584	0.003584	0.001471	0.001758	No Reduct	No Reduct	0.003579	0.003579	0.001469	0.001755	No Reduct
0.001076	No Reduct	No Reduct	0.002193	0.002193	0.000898	0.001075	No Reduct	No Reduct	0.002189	0.002189	0.000897	0.001073	No Reduct	No Reduct	0.002186	0.002186	0.000895	0.001071	No Reduct
0.000483	No Reduct	No Reduct	0.000985	0.000985	0.000403	0.000482	No Reduct	No Reduct	0.000984	0.000984	0.000402	0.000482	No Reduct	No Reduct	0.000982	0.000982	0.000401	0.000481	No Reduct
0.000709	No Reduct	No Reduct	0.001446	0.001446	0.00059	0.000708	No Reduct	No Reduct	0.001444	0.001444	0.00059	0.000707	No Reduct	No Reduct	0.001442	0.001442	0.000589	0.000706	No Reduct
0.000626	No Reduct	No Reduct	0.001278	0.001278	0.000521	0.000625	No Reduct	No Reduct	0.001277	0.001277	0.00052	0.000624	No Reduct	No Reduct	0.001275	0.001275	0.00052	0.000623	No Reduct
0.000487	No Reduct	No Reduct	0.001007	0.001007	0.000398	0.000486	No Reduct	No Reduct	0.001005	0.001005	0.000398	0.000486	No Reduct	No Reduct	0.001004	0.001004	0.000397	0.000485	No Reduct
0.00064	No Reduct	No Reduct	0.001324	0.001324	0.000523	0.000639	No Reduct	No Reduct	0.001322	0.001322	0.000523	0.000639	No Reduct	No Reduct	0.00132	0.00132	0.000522	0.000638	No Reduct
0.00056	No Reduct	No Reduct	0.001158	0.001158	0.000457	0.000559	No Reduct	No Reduct	0.001156	0.001156	0.000457	0.000558	No Reduct	No Reduct	0.001154	0.001154	0.000456	0.000557	No Reduct
0.000155	No Reduct	No Reduct	0.00032	0.00032	0.000127	0.000155	No Reduct	No Reduct	0.00032	0.00032	0.000126	0.000154	No Reduct	No Reduct	0.00032	0.00032	0.000126	0.000154	No Reduct
3.09E-05	No Reduct	No Reduct	6.39E-05	6.39E-05	2.52E-05	3.09E-05	No Reduct	No Reduct	6.38E-05	6.38E-05	2.52E-05	3.08E-05	No Reduct	No Reduct	6.37E-05	6.37E-05	2.52E-05	3.08E-05	No Reduct

20																			
	2021						2022						2023						
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON
No Reduct	0.024293	0.024293	0.008033	0.012746	No Reduct	No Reduct	0.024257	0.024257	0.00802	0.012727	No Reduct	No Reduct	0.02422	0.02422	0.008033	0.012746	No Reduct	No Reduct	0.024258
No Reduct	0.114126	0.114126	0.037368	0.059677	No Reduct	No Reduct	0.114098	0.114098	0.037429	0.059775	No Reduct	No Reduct	0.114286	0.114286	0.037444	0.059798	No Reduct	No Reduct	0.114329
No Reduct	0.07975	0.07975	0.025969	0.041639	No Reduct	No Reduct	0.079841	0.079841	0.025953	0.041613	No Reduct	No Reduct	0.079792	0.079792	0.025937	0.041587	No Reduct	No Reduct	0.079742
No Reduct	0.015193	0.015193	0.004911	0.007896	No Reduct	No Reduct	0.01517	0.01517	0.004904	0.007884	No Reduct	No Reduct	0.015148	0.015148	0.004919	0.007908	No Reduct	No Reduct	0.015194
No Reduct	0.024672	0.024672	0.007949	0.012825	No Reduct	No Reduct	0.024702	0.024702	0.007937	0.012805	No Reduct	No Reduct	0.024665	0.024665	0.007925	0.012786	No Reduct	No Reduct	0.024628
No Reduct	0.003574	0.003574	0.000945	0.001753	No Reduct	No Reduct	0.003568	0.003568	0.000943	0.00175	No Reduct	No Reduct	0.003563	0.003563	0.000942	0.001747	No Reduct	No Reduct	0.003558
No Reduct	0.002183	0.002183	0.000576	0.00107	No Reduct	No Reduct	0.00218	0.00218	0.000575	0.001068	No Reduct	No Reduct	0.002176	0.002176	0.000574	0.001067	No Reduct	No Reduct	0.002173
No Reduct	0.000981	0.000981	0.000258	0.00048	No Reduct	No Reduct	0.000979	0.000979	0.000258	0.000479	No Reduct	No Reduct	0.000978	0.000978	0.000257	0.000479	No Reduct	No Reduct	0.000976
No Reduct	0.00144	0.00144	0.000379	0.000705	No Reduct	No Reduct	0.001437	0.001437	0.000378	0.000704	No Reduct	No Reduct	0.001435	0.001435	0.000378	0.000702	No Reduct	No Reduct	0.001433
No Reduct	0.001273	0.001273	0.000334	0.000623	No Reduct	No Reduct	0.001271	0.001271	0.000334	0.000622	No Reduct	No Reduct	0.001269	0.001269	0.000333	0.000621	No Reduct	No Reduct	0.001267
No Reduct	0.001002	0.001002	0.000255	0.000484	No Reduct	No Reduct	0.001001	0.001001	0.000255	0.000483	No Reduct	No Reduct	0.000999	0.000999	0.000255	0.000483	No Reduct	No Reduct	0.000998
No Reduct	0.001318	0.001318	0.000336	0.000637	No Reduct	No Reduct	0.001316	0.001316	0.000335	0.000636	No Reduct	No Reduct	0.001314	0.001314	0.000335	0.000635	No Reduct	No Reduct	0.001312
No Reduct	0.001153	0.001153	0.000293	0.000556	No Reduct	No Reduct	0.001151	0.001151	0.000293	0.000556	No Reduct	No Reduct	0.001149	0.001149	0.000292	0.000555	No Reduct	No Reduct	0.001147
No Reduct	0.000319	0.000319	8.12E-05	0.000154	No Reduct	No Reduct	0.000319	0.000319	8.1E-05	0.000154	No Reduct	No Reduct	0.000318	0.000318	8.09E-05	0.000154	No Reduct	No Reduct	0.000318
No Reduct	6.36E-05	6.36E-05	1.62E-05	3.07E-05	No Reduct	No Reduct	6.35E-05	6.35E-05	1.62E-05	3.07E-05	No Reduct	No Reduct	6.34E-05	6.34E-05	1.61E-05	3.06E-05	No Reduct	No Reduct	6.33E-05

20																			
	2021						2022						2023						
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON
No Reduct	0.024293	0.024293	0.012469	0.012746	No Reduct	No Reduct	0.024257	0.024257	0.01245	0.012727	No Reduct	No Reduct	0.02422	0.02422	0.012469	0.012746	No Reduct	No Reduct	0.024258
No Reduct	0.114126	0.114126	0.058005	0.059677	No Reduct	No Reduct	0.114098	0.114098	0.0581	0.059775	No Reduct	No Reduct	0.114286	0.114286	0.058122	0.059798	No Reduct	No Reduct	0.114329
No Reduct	0.07975	0.07975	0.040311	0.041639	No Reduct	No Reduct	0.079841	0.079841	0.040286	0.041613	No Reduct	No Reduct	0.079792	0.079792	0.040261	0.041587	No Reduct	No Reduct	0.079742
No Reduct	0.015193	0.015193	0.007623	0.007896	No Reduct	No Reduct	0.01517	0.01517	0.007612	0.007884	No Reduct	No Reduct	0.015148	0.015148	0.007635	0.007908	No Reduct	No Reduct	0.015194
No Reduct	0.024672	0.024672	0.012339	0.012825	No Reduct	No Reduct	0.024702	0.024702	0.012321	0.012805	No Reduct	No Reduct	0.024665	0.024665	0.012302	0.012786	No Reduct	No Reduct	0.024628
No Reduct	0.003574	0.003574	0.001466	0.001753	No Reduct	No Reduct	0.003568	0.003568	0.001464	0.00175	No Reduct	No Reduct	0.003563	0.003563	0.001462	0.001747	No Reduct	No Reduct	0.003558
No Reduct	0.002183	0.002183	0.000894	0.00107	No Reduct	No Reduct	0.00218	0.00218	0.000893	0.001068	No Reduct	No Reduct	0.002176	0.002176	0.000891	0.001067	No Reduct	No Reduct	0.002173
No Reduct	0.000981	0.000981	0.000401	0.00048	No Reduct	No Reduct	0.000979	0.000979	0.0004	0.000479	No Reduct	No Reduct	0.000978	0.000978	0.0004	0.000479	No Reduct	No Reduct	0.000976
No Reduct	0.00144	0.00144	0.000588	0.000705	No Reduct	No Reduct	0.001437	0.001437	0.000587	0.000704	No Reduct	No Reduct	0.001435	0.001435	0.000586	0.000702	No Reduct	No Reduct	0.001433
No Reduct	0.001273	0.001273	0.000519	0.000623	No Reduct	No Reduct	0.001271	0.001271	0.000518	0.000622	No Reduct	No Reduct	0.001269	0.001269	0.000517	0.000621	No Reduct	No Reduct	0.001267
No Reduct	0.001002	0.001002	0.000396	0.000484	No Reduct	No Reduct	0.001001	0.001001	0.000396	0.000483	No Reduct	No Reduct	0.000999	0.000999	0.000395	0.000483	No Reduct	No Reduct	0.000998
No Reduct	0.001318	0.001318	0.000521	0.000637	No Reduct	No Reduct	0.001316	0.001316	0.00052	0.000636	No Reduct	No Reduct	0.001314	0.001314	0.000519	0.000635	No Reduct	No Reduct	0.001312
No Reduct	0.001153	0.001153	0.000455	0.000556	No Reduct	No Reduct	0.001151	0.001151	0.000455	0.000556	No Reduct	No Reduct	0.001149	0.001149	0.000454	0.000555	No Reduct	No Reduct	0.001147
No Reduct	0.000319	0.000319	0.000126	0.000154	No Reduct	No Reduct	0.000319	0.000319	0.000126	0.000154	No Reduct	No Reduct	0.000318	0.000318	0.000126	0.000154	No Reduct	No Reduct	0.000318
No Reduct	6.36E-05	6.36E-05	2.51E-05	3.07E-05	No Reduct	No Reduct	6.35E-05	6.35E-05	2.51E-05	3.07E-05	No Reduct	No Reduct	6.34E-05	6.34E-05	2.5E-05	3.06E-05	No Reduct	No Reduct	6.33E-05

2024						2025						2026					
PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
0.024258	0.008021	0.012727	No Reduct	No Reduct	0.024222	0.024222	0.008034	0.012747	No Reduct	No Reduct	0.02426	0.02426	0.008022	0.012728	No Reduct	No Reduct	0.024224	0.024224	0.008034
0.114329	0.037411	0.059746	No Reduct	No Reduct	0.11423	0.11423	0.037402	0.059731	No Reduct	No Reduct	0.114202	0.114202	0.037393	0.059717	No Reduct	No Reduct	0.114175	0.114175	0.037361
0.079742	0.025921	0.041562	No Reduct	No Reduct	0.079693	0.079693	0.025928	0.041572	No Reduct	No Reduct	0.079713	0.079713	0.025934	0.041583	No Reduct	No Reduct	0.079734	0.079734	0.025941
0.015194	0.004911	0.007896	No Reduct	No Reduct	0.015171	0.015171	0.004904	0.007885	No Reduct	No Reduct	0.015149	0.015149	0.004919	0.007909	No Reduct	No Reduct	0.015194	0.015194	0.004912
0.024628	0.007957	0.012837	No Reduct	No Reduct	0.024726	0.024726	0.007945	0.012818	No Reduct	No Reduct	0.024689	0.024689	0.007933	0.012799	No Reduct	No Reduct	0.024652	0.024652	0.007943
0.003558	0.000962	0.001784	No Reduct	No Reduct	0.003632	0.003632	0.00096	0.001781	No Reduct	No Reduct	0.003627	0.003627	0.000959	0.001779	No Reduct	No Reduct	0.003621	0.003621	0.000957
0.002173	0.000573	0.001065	No Reduct	No Reduct	0.00217	0.00217	0.000583	0.001083	No Reduct	No Reduct	0.002206	0.002206	0.000582	0.001081	No Reduct	No Reduct	0.002203	0.002203	0.000581
0.000976	0.000257	0.000478	No Reduct	No Reduct	0.000975	0.000975	0.000257	0.000477	No Reduct	No Reduct	0.000973	0.000973	0.000256	0.000477	No Reduct	No Reduct	0.000972	0.000972	0.000256
0.001433	0.000377	0.000701	No Reduct	No Reduct	0.001431	0.001431	0.000376	0.0007	No Reduct	No Reduct	0.001429	0.001429	0.000376	0.000699	No Reduct	No Reduct	0.001427	0.001427	0.000385
0.001267	0.000333	0.00062	No Reduct	No Reduct	0.001265	0.001265	0.000332	0.000619	No Reduct	No Reduct	0.001263	0.001263	0.000332	0.000618	No Reduct	No Reduct	0.001261	0.001261	0.000331
0.000998	0.000254	0.000482	No Reduct	No Reduct	0.000996	0.000996	0.000254	0.000481	No Reduct	No Reduct	0.000995	0.000995	0.000253	0.000481	No Reduct	No Reduct	0.000993	0.000993	0.000253
0.001312	0.000334	0.000634	No Reduct	No Reduct	0.00131	0.00131	0.000334	0.000633	No Reduct	No Reduct	0.001308	0.001308	0.000333	0.000632	No Reduct	No Reduct	0.001306	0.001306	0.000333
0.001147	0.000292	0.000554	No Reduct	No Reduct	0.001146	0.001146	0.000292	0.000553	No Reduct	No Reduct	0.001144	0.001144	0.000299	0.000568	No Reduct	No Reduct	0.001174	0.001174	0.000299
0.000318	8.08E-05	0.000153	No Reduct	No Reduct	0.000317	0.000317	8.07E-05	0.000153	No Reduct	No Reduct	0.000317	0.000317	8.06E-05	0.000153	No Reduct	No Reduct	0.000316	0.000316	8.04E-05
6.33E-05	1.61E-05	3.06E-05	No Reduct	No Reduct	6.33E-05	6.33E-05	1.61E-05	3.05E-05	No Reduct	No Reduct	6.32E-05	6.32E-05	1.61E-05	3.05E-05	No Reduct	No Reduct	6.31E-05	6.31E-05	1.6E-05

2024						2025						2026					
PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
0.024258	0.012451	0.012727	No Reduct	No Reduct	0.024222	0.024222	0.01247	0.012747	No Reduct	No Reduct	0.02426	0.02426	0.012452	0.012728	No Reduct	No Reduct	0.024224	0.024224	0.012471
0.114329	0.058072	0.059746	No Reduct	No Reduct	0.11423	0.11423	0.058058	0.059731	No Reduct	No Reduct	0.114202	0.114202	0.058044	0.059717	No Reduct	No Reduct	0.114175	0.114175	0.057994
0.079742	0.040236	0.041562	No Reduct	No Reduct	0.079693	0.079693	0.040246	0.041572	No Reduct	No Reduct	0.079713	0.079713	0.040257	0.041583	No Reduct	No Reduct	0.079734	0.079734	0.040267
0.015194	0.007624	0.007896	No Reduct	No Reduct	0.015171	0.015171	0.007612	0.007885	No Reduct	No Reduct	0.015149	0.015149	0.007636	0.007909	No Reduct	No Reduct	0.015194	0.015194	0.007624
0.024628	0.012351	0.012837	No Reduct	No Reduct	0.024726	0.024726	0.012333	0.012818	No Reduct	No Reduct	0.024689	0.024689	0.012314	0.012799	No Reduct	No Reduct	0.024652	0.024652	0.012329
0.003558	0.001493	0.001784	No Reduct	No Reduct	0.003632	0.003632	0.00149	0.001781	No Reduct	No Reduct	0.003627	0.003627	0.001488	0.001779	No Reduct	No Reduct	0.003621	0.003621	0.001486
0.002173	0.00089	0.001065	No Reduct	No Reduct	0.00217	0.00217	0.000905	0.001083	No Reduct	No Reduct	0.002206	0.002206	0.000904	0.001081	No Reduct	No Reduct	0.002203	0.002203	0.000902
0.000976	0.000399	0.000478	No Reduct	No Reduct	0.000975	0.000975	0.000398	0.000477	No Reduct	No Reduct	0.000973	0.000973	0.000398	0.000477	No Reduct	No Reduct	0.000972	0.000972	0.000397
0.001433	0.000585	0.000701	No Reduct	No Reduct	0.001431	0.001431	0.000584	0.0007	No Reduct	No Reduct	0.001429	0.001429	0.000583	0.000699	No Reduct	No Reduct	0.001427	0.001427	0.000598
0.001267	0.000517	0.00062	No Reduct	No Reduct	0.001265	0.001265	0.000516	0.000619	No Reduct	No Reduct	0.001263	0.001263	0.000515	0.000618	No Reduct	No Reduct	0.001261	0.001261	0.000514
0.000998	0.000395	0.000482	No Reduct	No Reduct	0.000996	0.000996	0.000394	0.000481	No Reduct	No Reduct	0.000995	0.000995	0.000393	0.000481	No Reduct	No Reduct	0.000993	0.000993	0.000393
0.001312	0.000519	0.000634	No Reduct	No Reduct	0.00131	0.00131	0.000518	0.000633	No Reduct	No Reduct	0.001308	0.001308	0.000517	0.000632	No Reduct	No Reduct	0.001306	0.001306	0.000516
0.001147	0.000453	0.000554	No Reduct	No Reduct	0.001146	0.001146	0.000453	0.000553	No Reduct	No Reduct	0.001144	0.001144	0.000465	0.000568	No Reduct	No Reduct	0.001174	0.001174	0.000464
0.000318	0.000125	0.000153	No Reduct	No Reduct	0.000317	0.000317	0.000125	0.000153	No Reduct	No Reduct	0.000317	0.000317	0.000125	0.000153	No Reduct	No Reduct	0.000316	0.000316	0.000125
6.33E-05	2.5E-05	3.06E-05	No Reduct	No Reduct	6.33E-05	6.33E-05	2.5E-05	3.05E-05	No Reduct	No Reduct	6.32E-05	6.32E-05	2.49E-05	3.05E-05	No Reduct	No Reduct	6.31E-05	6.31E-05	2.49E-05

2027						2028						2029						20
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON
0.012748	No Reduct	No Reduct	0.024261	0.024261	0.008022	0.012729	No Reduct	No Reduct	0.024225	0.024225	0.008035	0.012749	No Reduct	No Reduct	0.024263	0.024263	0.008023	0.01273	No Reduct
0.059665	No Reduct	No Reduct	0.114076	0.114076	0.037398	0.059725	No Reduct	No Reduct	0.114191	0.114191	0.037389	0.059711	No Reduct	No Reduct	0.114163	0.114163	0.037404	0.059734	No Reduct
0.041594	No Reduct	No Reduct	0.079754	0.079754	0.025947	0.041604	No Reduct	No Reduct	0.079775	0.079775	0.025954	0.041615	No Reduct	No Reduct	0.079795	0.079795	0.025938	0.041589	No Reduct
0.007897	No Reduct	No Reduct	0.015172	0.015172	0.004904	0.007885	No Reduct	No Reduct	0.015149	0.015149	0.004897	0.007873	No Reduct	No Reduct	0.015127	0.015127	0.004912	0.007897	No Reduct
0.012814	No Reduct	No Reduct	0.024682	0.024682	0.007931	0.012795	No Reduct	No Reduct	0.024646	0.024646	0.007941	0.012811	No Reduct	No Reduct	0.024676	0.024676	0.00795	0.012827	No Reduct
0.001776	No Reduct	No Reduct	0.003616	0.003616	0.000956	0.001773	No Reduct	No Reduct	0.00361	0.00361	0.000954	0.001771	No Reduct	No Reduct	0.003605	0.003605	0.000953	0.001768	No Reduct
0.00108	No Reduct	No Reduct	0.002199	0.002199	0.00058	0.001078	No Reduct	No Reduct	0.002196	0.002196	0.000579	0.001076	No Reduct	No Reduct	0.002193	0.002193	0.000579	0.001075	No Reduct
0.000476	No Reduct	No Reduct	0.00097	0.00097	0.000256	0.000475	No Reduct	No Reduct	0.000969	0.000969	0.000255	0.000474	No Reduct	No Reduct	0.000967	0.000967	0.000255	0.000474	No Reduct
0.000717	No Reduct	No Reduct	0.001463	0.001463	0.000385	0.000716	No Reduct	No Reduct	0.001461	0.001461	0.000384	0.000715	No Reduct	No Reduct	0.001459	0.001459	0.000384	0.000714	No Reduct
0.000617	No Reduct	No Reduct	0.001259	0.001259	0.000331	0.000616	No Reduct	No Reduct	0.001258	0.001258	0.00033	0.000615	No Reduct	No Reduct	0.001256	0.001256	0.00033	0.000614	No Reduct
0.00048	No Reduct	No Reduct	0.000992	0.000992	0.000253	0.000479	No Reduct	No Reduct	0.00099	0.00099	0.000252	0.000478	No Reduct	No Reduct	0.000989	0.000989	0.000252	0.000478	No Reduct
0.000631	No Reduct	No Reduct	0.001304	0.001304	0.000332	0.00063	No Reduct	No Reduct	0.001302	0.001302	0.000332	0.000629	No Reduct	No Reduct	0.001301	0.001301	0.000331	0.000628	No Reduct
0.000567	No Reduct	No Reduct	0.001172	0.001172	0.000298	0.000566	No Reduct	No Reduct	0.00117	0.00117	0.000298	0.000565	No Reduct	No Reduct	0.001169	0.001169	0.000297	0.000564	No Reduct
0.000153	No Reduct	No Reduct	0.000316	0.000316	8.03E-05	0.000152	No Reduct	No Reduct	0.000315	0.000315	8.02E-05	0.000152	No Reduct	No Reduct	0.000315	0.000315	8.01E-05	0.000152	No Reduct
3.04E-05	No Reduct	No Reduct	6.3E-05	6.3E-05	1.6E-05	3.04E-05	No Reduct	No Reduct	6.29E-05	6.29E-05	1.6E-05	3.03E-05	No Reduct	No Reduct	6.28E-05	6.28E-05	1.6E-05	3.03E-05	No Reduct

2027						2028						2029						20
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON
0.012748	No Reduct	No Reduct	0.024261	0.024261	0.012453	0.012729	No Reduct	No Reduct	0.024225	0.024225	0.012472	0.012749	No Reduct	No Reduct	0.024263	0.024263	0.012453	0.01273	No Reduct
0.059665	No Reduct	No Reduct	0.114076	0.114076	0.058052	0.059725	No Reduct	No Reduct	0.114191	0.114191	0.058038	0.059711	No Reduct	No Reduct	0.114163	0.114163	0.05806	0.059734	No Reduct
0.041594	No Reduct	No Reduct	0.079754	0.079754	0.040277	0.041604	No Reduct	No Reduct	0.079775	0.079775	0.040287	0.041615	No Reduct	No Reduct	0.079795	0.079795	0.040263	0.041589	No Reduct
0.007897	No Reduct	No Reduct	0.015172	0.015172	0.007613	0.007885	No Reduct	No Reduct	0.015149	0.015149	0.007602	0.007873	No Reduct	No Reduct	0.015127	0.015127	0.007625	0.007897	No Reduct
0.012814	No Reduct	No Reduct	0.024682	0.024682	0.012311	0.012795	No Reduct	No Reduct	0.024646	0.024646	0.012326	0.012811	No Reduct	No Reduct	0.024676	0.024676	0.012341	0.012827	No Reduct
0.001776	No Reduct	No Reduct	0.003616	0.003616	0.001484	0.001773	No Reduct	No Reduct	0.00361	0.00361	0.001482	0.001771	No Reduct	No Reduct	0.003605	0.003605	0.001479	0.001768	No Reduct
0.00108	No Reduct	No Reduct	0.002199	0.002199	0.000901	0.001078	No Reduct	No Reduct	0.002196	0.002196	0.0009	0.001076	No Reduct	No Reduct	0.002193	0.002193	0.000898	0.001075	No Reduct
0.000476	No Reduct	No Reduct	0.00097	0.00097	0.000397	0.000475	No Reduct	No Reduct	0.000969	0.000969	0.000396	0.000474	No Reduct	No Reduct	0.000967	0.000967	0.000396	0.000474	No Reduct
0.000717	No Reduct	No Reduct	0.001463	0.001463	0.000597	0.000716	No Reduct	No Reduct	0.001461	0.001461	0.000597	0.000715	No Reduct	No Reduct	0.001459	0.001459	0.000596	0.000714	No Reduct
0.000617	No Reduct	No Reduct	0.001259	0.001259	0.000514	0.000616	No Reduct	No Reduct	0.001258	0.001258	0.000513	0.000615	No Reduct	No Reduct	0.001256	0.001256	0.000512	0.000614	No Reduct
0.00048	No Reduct	No Reduct	0.000992	0.000992	0.000392	0.000479	No Reduct	No Reduct	0.00099	0.00099	0.000392	0.000478	No Reduct	No Reduct	0.000989	0.000989	0.000391	0.000478	No Reduct
0.000631	No Reduct	No Reduct	0.001304	0.001304	0.000516	0.00063	No Reduct	No Reduct	0.001302	0.001302	0.000515	0.000629	No Reduct	No Reduct	0.001301	0.001301	0.000514	0.000628	No Reduct
0.000567	No Reduct	No Reduct	0.001172	0.001172	0.000463	0.000566	No Reduct	No Reduct	0.00117	0.00117	0.000462	0.000565	No Reduct	No Reduct	0.001169	0.001169	0.000462	0.000564	No Reduct
0.000153	No Reduct	No Reduct	0.000316	0.000316	0.000125	0.000152	No Reduct	No Reduct	0.000315	0.000315	0.000124	0.000152	No Reduct	No Reduct	0.000315	0.000315	0.000124	0.000152	No Reduct
3.04E-05	No Reduct	No Reduct	6.3E-05	6.3E-05	2.49E-05	3.04E-05	No Reduct	No Reduct	6.29E-05	6.29E-05	2.48E-05	3.03E-05	No Reduct	No Reduct	6.28E-05	6.28E-05	2.48E-05	3.03E-05	No Reduct

30																			
	2031						2032						2033						
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON
No Reduct	0.024227	0.024227	0.008011	0.012711	No Reduct	No Reduct	0.024191	0.024191	0.008048	0.012769	No Reduct	No Reduct	0.024302	0.024302	0.008038	0.012754	No Reduct	No Reduct	0.024272
No Reduct	0.114207	0.114207	0.037418	0.059756	No Reduct	No Reduct	0.11425	0.11425	0.037386	0.059705	No Reduct	No Reduct	0.114152	0.114152	0.03734	0.059632	No Reduct	No Reduct	0.114012
No Reduct	0.079746	0.079746	0.025945	0.0416	No Reduct	No Reduct	0.079766	0.079766	0.025951	0.04161	No Reduct	No Reduct	0.079786	0.079786	0.025964	0.041631	No Reduct	No Reduct	0.079826
No Reduct	0.015172	0.015172	0.004905	0.007885	No Reduct	No Reduct	0.01515	0.01515	0.004919	0.007909	No Reduct	No Reduct	0.015196	0.015196	0.004913	0.007899	No Reduct	No Reduct	0.015177
No Reduct	0.024706	0.024706	0.007939	0.012808	No Reduct	No Reduct	0.024669	0.024669	0.007927	0.012789	No Reduct	No Reduct	0.024633	0.024633	0.007939	0.012808	No Reduct	No Reduct	0.024669
No Reduct	0.0036	0.0036	0.000952	0.001766	No Reduct	No Reduct	0.003594	0.003594	0.00095	0.001763	No Reduct	No Reduct	0.003589	0.003589	0.000949	0.001761	No Reduct	No Reduct	0.003585
No Reduct	0.00219	0.00219	0.000578	0.001073	No Reduct	No Reduct	0.002186	0.002186	0.000577	0.001072	No Reduct	No Reduct	0.002183	0.002183	0.000576	0.00107	No Reduct	No Reduct	0.002181
No Reduct	0.000966	0.000966	0.000254	0.000473	No Reduct	No Reduct	0.000965	0.000965	0.000254	0.000472	No Reduct	No Reduct	0.000963	0.000963	0.000264	0.000491	No Reduct	No Reduct	0.001
No Reduct	0.001457	0.001457	0.000383	0.000713	No Reduct	No Reduct	0.001454	0.001454	0.000383	0.000712	No Reduct	No Reduct	0.001452	0.001452	0.000382	0.000711	No Reduct	No Reduct	0.001451
No Reduct	0.001254	0.001254	0.000329	0.000613	No Reduct	No Reduct	0.001252	0.001252	0.000329	0.000612	No Reduct	No Reduct	0.00125	0.00125	0.000328	0.000612	No Reduct	No Reduct	0.001249
No Reduct	0.000987	0.000987	0.00026	0.000492	No Reduct	No Reduct	0.001018	0.001018	0.000259	0.000492	No Reduct	No Reduct	0.001016	0.001016	0.000259	0.000491	No Reduct	No Reduct	0.001015
No Reduct	0.001299	0.001299	0.000331	0.000627	No Reduct	No Reduct	0.001297	0.001297	0.00033	0.000626	No Reduct	No Reduct	0.001295	0.001295	0.000338	0.000641	No Reduct	No Reduct	0.001325
No Reduct	0.001167	0.001167	0.000297	0.000564	No Reduct	No Reduct	0.001165	0.001165	0.000297	0.000563	No Reduct	No Reduct	0.001164	0.001164	0.000296	0.000562	No Reduct	No Reduct	0.001162
No Reduct	0.000314	0.000314	8E-05	0.000152	No Reduct	No Reduct	0.000314	0.000314	7.98E-05	0.000152	No Reduct	No Reduct	0.000313	0.000313	7.98E-05	0.000151	No Reduct	No Reduct	0.000313
No Reduct	6.27E-05	6.27E-05	1.59E-05	3.03E-05	No Reduct	No Reduct	6.26E-05	6.26E-05	1.59E-05	3.02E-05	No Reduct	No Reduct	6.25E-05	6.25E-05	1.59E-05	3.02E-05	No Reduct	No Reduct	6.24E-05

30																			
	2031						2032						2033						
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON
No Reduct	0.024227	0.024227	0.012435	0.012711	No Reduct	No Reduct	0.024191	0.024191	0.012492	0.012769	No Reduct	No Reduct	0.024302	0.024302	0.012477	0.012754	No Reduct	No Reduct	0.024272
No Reduct	0.114207	0.114207	0.058082	0.059756	No Reduct	No Reduct	0.11425	0.11425	0.058032	0.059705	No Reduct	No Reduct	0.114152	0.114152	0.057961	0.059632	No Reduct	No Reduct	0.114012
No Reduct	0.079746	0.079746	0.040273	0.0416	No Reduct	No Reduct	0.079766	0.079766	0.040283	0.04161	No Reduct	No Reduct	0.079786	0.079786	0.040303	0.041631	No Reduct	No Reduct	0.079826
No Reduct	0.015172	0.015172	0.007613	0.007885	No Reduct	No Reduct	0.01515	0.01515	0.007636	0.007909	No Reduct	No Reduct	0.015196	0.015196	0.007627	0.007899	No Reduct	No Reduct	0.015177
No Reduct	0.024706	0.024706	0.012323	0.012808	No Reduct	No Reduct	0.024669	0.024669	0.012305	0.012789	No Reduct	No Reduct	0.024633	0.024633	0.012323	0.012808	No Reduct	No Reduct	0.024669
No Reduct	0.0036	0.0036	0.001477	0.001766	No Reduct	No Reduct	0.003594	0.003594	0.001475	0.001763	No Reduct	No Reduct	0.003589	0.003589	0.001473	0.001761	No Reduct	No Reduct	0.003585
No Reduct	0.00219	0.00219	0.000897	0.001073	No Reduct	No Reduct	0.002186	0.002186	0.000896	0.001072	No Reduct	No Reduct	0.002183	0.002183	0.000894	0.00107	No Reduct	No Reduct	0.002181
No Reduct	0.000966	0.000966	0.000395	0.000473	No Reduct	No Reduct	0.000965	0.000965	0.000394	0.000472	No Reduct	No Reduct	0.000963	0.000963	0.00041	0.000491	No Reduct	No Reduct	0.001
No Reduct	0.001457	0.001457	0.000595	0.000713	No Reduct	No Reduct	0.001454	0.001454	0.000594	0.000712	No Reduct	No Reduct	0.001452	0.001452	0.000593	0.000711	No Reduct	No Reduct	0.001451
No Reduct	0.001254	0.001254	0.000511	0.000613	No Reduct	No Reduct	0.001252	0.001252	0.00051	0.000612	No Reduct	No Reduct	0.00125	0.00125	0.00051	0.000612	No Reduct	No Reduct	0.001249
No Reduct	0.000987	0.000987	0.000403	0.000492	No Reduct	No Reduct	0.001018	0.001018	0.000403	0.000492	No Reduct	No Reduct	0.001016	0.001016	0.000402	0.000491	No Reduct	No Reduct	0.001015
No Reduct	0.001299	0.001299	0.000513	0.000627	No Reduct	No Reduct	0.001297	0.001297	0.000513	0.000626	No Reduct	No Reduct	0.001295	0.001295	0.000524	0.000641	No Reduct	No Reduct	0.001325
No Reduct	0.001167	0.001167	0.000461	0.000564	No Reduct	No Reduct	0.001165	0.001165	0.00046	0.000563	No Reduct	No Reduct	0.001164	0.001164	0.00046	0.000562	No Reduct	No Reduct	0.001162
No Reduct	0.000314	0.000314	0.000124	0.000152	No Reduct	No Reduct	0.000314	0.000314	0.000124	0.000152	No Reduct	No Reduct	0.000313	0.000313	0.000124	0.000151	No Reduct	No Reduct	0.000313
No Reduct	6.27E-05	6.27E-05	2.47E-05	3.03E-05	No Reduct	No Reduct	6.26E-05	6.26E-05	2.47E-05	3.02E-05	No Reduct	No Reduct	6.25E-05	6.25E-05	2.47E-05	3.02E-05	No Reduct	No Reduct	6.24E-05

2034						2035					
PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
0.024272	0.00805	0.012773	No Reduct	No Reduct	0.024309	0.024309	0.008038	0.012755	No Reduct	No Reduct	0.024274	0.024274
0.114012	0.037354	0.059654	No Reduct	No Reduct	0.114055	0.114055	0.037368	0.059677	No Reduct	No Reduct	0.114099	0.114099
0.079826	0.025971	0.041642	No Reduct	No Reduct	0.079846	0.079846	0.025977	0.041652	No Reduct	No Reduct	0.079866	0.079866
0.015177	0.004906	0.007888	No Reduct	No Reduct	0.015155	0.015155	0.004899	0.007876	No Reduct	No Reduct	0.015132	0.015132
0.024669	0.007927	0.012789	No Reduct	No Reduct	0.024633	0.024633	0.007936	0.012804	No Reduct	No Reduct	0.024663	0.024663
0.003585	0.000948	0.001758	No Reduct	No Reduct	0.00358	0.00358	0.000946	0.001756	No Reduct	No Reduct	0.003574	0.003574
0.002181	0.000575	0.001069	No Reduct	No Reduct	0.002177	0.002177	0.000575	0.001067	No Reduct	No Reduct	0.002174	0.002174
0.001	0.000263	0.00049	No Reduct	No Reduct	0.000999	0.000999	0.000263	0.000489	No Reduct	No Reduct	0.000998	0.000998
0.001451	0.000382	0.00071	No Reduct	No Reduct	0.001448	0.001448	0.000381	0.000709	No Reduct	No Reduct	0.001446	0.001446
0.001249	0.000328	0.000611	No Reduct	No Reduct	0.001247	0.001247	0.000328	0.00061	No Reduct	No Reduct	0.001245	0.001245
0.001015	0.000259	0.00049	No Reduct	No Reduct	0.001013	0.001013	0.000258	0.00049	No Reduct	No Reduct	0.001012	0.001012
0.001325	0.000337	0.00064	No Reduct	No Reduct	0.001323	0.001323	0.000337	0.000639	No Reduct	No Reduct	0.001321	0.001321
0.001162	0.000296	0.000561	No Reduct	No Reduct	0.00116	0.00116	0.000295	0.00056	No Reduct	No Reduct	0.001159	0.001159
0.000313	7.96E-05	0.000151	No Reduct	No Reduct	0.000313	0.000313	7.95E-05	0.000151	No Reduct	No Reduct	0.000312	0.000312
6.24E-05	1.59E-05	3.01E-05	No Reduct	No Reduct	6.23E-05	6.23E-05	1.59E-05	3.01E-05	No Reduct	No Reduct	6.22E-05	6.22E-05

2034						2035					
PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
0.024272	0.012496	0.012773	No Reduct	No Reduct	0.024309	0.024309	0.012477	0.012755	No Reduct	No Reduct	0.024274	0.024274
0.114012	0.057983	0.059654	No Reduct	No Reduct	0.114055	0.114055	0.058005	0.059677	No Reduct	No Reduct	0.114099	0.114099
0.079826	0.040313	0.041642	No Reduct	No Reduct	0.079846	0.079846	0.040324	0.041652	No Reduct	No Reduct	0.079866	0.079866
0.015177	0.007615	0.007888	No Reduct	No Reduct	0.015155	0.015155	0.007604	0.007876	No Reduct	No Reduct	0.015132	0.015132
0.024669	0.012304	0.012789	No Reduct	No Reduct	0.024633	0.024633	0.012319	0.012804	No Reduct	No Reduct	0.024663	0.024663
0.003585	0.001471	0.001758	No Reduct	No Reduct	0.00358	0.00358	0.001469	0.001756	No Reduct	No Reduct	0.003574	0.003574
0.002181	0.000893	0.001069	No Reduct	No Reduct	0.002177	0.002177	0.000892	0.001067	No Reduct	No Reduct	0.002174	0.002174
0.001	0.000409	0.00049	No Reduct	No Reduct	0.000999	0.000999	0.000408	0.000489	No Reduct	No Reduct	0.000998	0.000998
0.001451	0.000592	0.00071	No Reduct	No Reduct	0.001448	0.001448	0.000591	0.000709	No Reduct	No Reduct	0.001446	0.001446
0.001249	0.000509	0.000611	No Reduct	No Reduct	0.001247	0.001247	0.000508	0.00061	No Reduct	No Reduct	0.001245	0.001245
0.001015	0.000402	0.00049	No Reduct	No Reduct	0.001013	0.001013	0.000401	0.00049	No Reduct	No Reduct	0.001012	0.001012
0.001325	0.000524	0.00064	No Reduct	No Reduct	0.001323	0.001323	0.000523	0.000639	No Reduct	No Reduct	0.001321	0.001321
0.001162	0.000459	0.000561	No Reduct	No Reduct	0.00116	0.00116	0.000458	0.00056	No Reduct	No Reduct	0.001159	0.001159
0.000313	0.000124	0.000151	No Reduct	No Reduct	0.000313	0.000313	0.000123	0.000151	No Reduct	No Reduct	0.000312	0.000312
6.24E-05	2.46E-05	3.01E-05	No Reduct	No Reduct	6.23E-05	6.23E-05	2.46E-05	3.01E-05	No Reduct	No Reduct	6.22E-05	6.22E-05

Final % Reduction

		NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
	1000	0.89%	1.41%	No Reduct	No Reduct	2.68%	2.68%
	2000	3.92%	6.26%	No Reduct	No Reduct	11.97%	11.97%
	3000	2.50%	4.01%	No Reduct	No Reduct	7.69%	7.69%
	4000	0.46%	0.74%	No Reduct	No Reduct	1.41%	1.41%
	5000	0.77%	1.24%	No Reduct	No Reduct	2.39%	2.39%
	6000	0.09%	0.16%	No Reduct	No Reduct	0.33%	0.33%
	7000	0.05%	0.10%	No Reduct	No Reduct	0.21%	0.21%
2012	8000	0.03%	0.05%	No Reduct	No Reduct	0.11%	0.11%
	9000	0.04%	0.07%	No Reduct	No Reduct	0.15%	0.15%
	10000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%
	11000	0.02%	0.05%	No Reduct	No Reduct	0.10%	0.10%
	12000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%
	13000	0.02%	0.04%	No Reduct	No Reduct	0.08%	0.08%
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	1000	0.80%	1.27%	No Reduct	No Reduct	2.42%	2.42%
	2000	3.73%	5.96%	No Reduct	No Reduct	11.40%	11.40%
	3000	2.59%	4.16%	No Reduct	No Reduct	7.97%	7.97%
	4000	0.49%	0.79%	No Reduct	No Reduct	1.52%	1.52%
	5000	0.80%	1.28%	No Reduct	No Reduct	2.47%	2.47%
	6000	0.10%	0.18%	No Reduct	No Reduct	0.36%	0.36%
	7000	0.06%	0.11%	No Reduct	No Reduct	0.22%	0.22%
2015	8000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%
	9000	0.04%	0.07%	No Reduct	No Reduct	0.14%	0.14%
	10000	0.03%	0.06%	No Reduct	No Reduct	0.13%	0.13%
	11000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%
	12000	0.03%	0.06%	No Reduct	No Reduct	0.13%	0.13%
	13000	0.03%	0.06%	No Reduct	No Reduct	0.12%	0.12%
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%
	1000	0.80%	1.27%	No Reduct	No Reduct	2.42%	2.42%
	2000	3.73%	5.96%	No Reduct	No Reduct	11.40%	11.40%
	3000	2.60%	4.16%	No Reduct	No Reduct	7.98%	7.98%
	4000	0.49%	0.79%	No Reduct	No Reduct	1.51%	1.51%
	5000	0.79%	1.28%	No Reduct	No Reduct	2.47%	2.47%
	6000	0.10%	0.18%	No Reduct	No Reduct	0.36%	0.36%
	7000	0.06%	0.11%	No Reduct	No Reduct	0.22%	0.22%
2016	8000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%
	9000	0.04%	0.07%	No Reduct	No Reduct	0.14%	0.14%
	10000	0.03%	0.06%	No Reduct	No Reduct	0.13%	0.13%
	11000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%
	12000	0.03%	0.06%	No Reduct	No Reduct	0.13%	0.13%
	13000	0.03%	0.06%	No Reduct	No Reduct	0.12%	0.12%
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%
	1000	0.80%	1.27%	No Reduct	No Reduct	2.42%	2.42%

Drilling Emissions in Lbs/Well Drilled

CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB
2012	001000	Construction	C.1 Well Drilling	889.3949598	52.74499254
2012	002000	Construction	C.1 Well Drilling	1165.785878	68.6565032
2012	003000	Construction	C.1 Well Drilling	1442.176795	84.56801385
2012	004000	Construction	C.1 Well Drilling	1718.567713	100.4795245
2012	005000	Construction	C.1 Well Drilling	2271.349549	132.3025458
2012	006000	Construction	C.1 Well Drilling	5143.498427	247.3684469
2012	007000	Construction	C.1 Well Drilling	6160.153671	295.8400441
2012	008000	Construction	C.1 Well Drilling	7685.136537	368.54744
2012	009000	Construction	C.1 Well Drilling	9210.119402	441.2548359
2012	010000	Construction	C.1 Well Drilling	11751.75751	562.433829
2012	011000	Construction	C.1 Well Drilling	17376.84905	812.3437041
2012	012000	Construction	C.1 Well Drilling	21706.00576	1014.177015
2012	013000	Construction	C.1 Well Drilling	26653.61343	1244.843656
2012	014000	Construction	C.1 Well Drilling	32838.12301	1533.176957
2012	015000	Construction	C.1 Well Drilling	40259.53452	1879.176919
2015	001000	Construction	C.1 Well Drilling	802.5835351	48.79234205
2015	002000	Construction	C.1 Well Drilling	1051.798768	63.53247208
2015	003000	Construction	C.1 Well Drilling	1301.014	78.27260212
2015	004000	Construction	C.1 Well Drilling	1550.229233	93.01273216
2015	005000	Construction	C.1 Well Drilling	2048.659698	122.4929922
2015	006000	Construction	C.1 Well Drilling	5123.472228	266.380754
2015	007000	Construction	C.1 Well Drilling	6137.179107	318.7425144
2015	008000	Construction	C.1 Well Drilling	7657.739424	397.285155
2015	009000	Construction	C.1 Well Drilling	9178.299741	475.8277956
2015	010000	Construction	C.1 Well Drilling	11712.56694	606.7321966
2015	011000	Construction	C.1 Well Drilling	17402.30073	885.5183604
2015	012000	Construction	C.1 Well Drilling	21739.14145	1105.754963
2015	013000	Construction	C.1 Well Drilling	26695.53085	1357.453936
2015	014000	Construction	C.1 Well Drilling	32891.01759	1672.077654
2015	015000	Construction	C.1 Well Drilling	40325.60169	2049.626115
2016	001000	Construction	C.1 Well Drilling	763.3389208	46.54759315
2016	002000	Construction	C.1 Well Drilling	1000.28455	60.61695792
2016	003000	Construction	C.1 Well Drilling	1237.23018	74.68632269
2016	004000	Construction	C.1 Well Drilling	1474.175809	88.75568746
2016	005000	Construction	C.1 Well Drilling	1948.067068	116.894417
2016	006000	Construction	C.1 Well Drilling	5042.783384	260.999804
2016	007000	Construction	C.1 Well Drilling	6040.839654	312.331865
2016	008000	Construction	C.1 Well Drilling	7537.924059	389.3299566
2016	009000	Construction	C.1 Well Drilling	9035.008464	466.3280481
2016	010000	Construction	C.1 Well Drilling	11530.14914	594.6582007
2016	011000	Construction	C.1 Well Drilling	17169.76603	870.1619411
2016	012000	Construction	C.1 Well Drilling	21449.08203	1086.617552
2016	013000	Construction	C.1 Well Drilling	26339.72888	1333.995392
2016	014000	Construction	C.1 Well Drilling	32453.03745	1643.217693
2016	015000	Construction	C.1 Well Drilling	39789.00774	2014.284454
2017	001000	Construction	C.1 Well Drilling	719.1407087	43.99990232

Amount of Drilling Emissions Reduced in Changing 75<hp<120 Engines to Tier 4i in Lbs/Well Drilled

CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB	COLB	SOXLB	COLB	SOXLB	PM10LB	PM25LB
2012	001000	Construction	C.1 Well Drilling	7.881934039	0.741699258	No Reduction	No Reduction	650.4930445	0.766405804	40.20745903	36.99086231
2012	002000	Construction	C.1 Well Drilling	45.68504871	4.296786571	No Reduction	No Reduction	855.7315035	1.008083983	52.13380846	47.96310378
2012	003000	Construction	C.1 Well Drilling	36.06112553	3.390541348	No Reduction	No Reduction	1060.969963	1.249762162	64.06015789	58.93534526
2012	004000	Construction	C.1 Well Drilling	7.872026704	0.739981679	No Reduction	No Reduction	1266.208422	1.491440341	75.98650732	69.90758673
2012	005000	Construction	C.1 Well Drilling	17.45205039	1.640057977	No Reduction	No Reduction	1676.68534	1.974796699	99.83920617	91.85206968
2012	006000	Construction	C.1 Well Drilling	4.442265852	0.396389111	No Reduction	No Reduction	3961.954751	4.661204512	182.7774876	168.1552886
2012	007000	Construction	C.1 Well Drilling	3.347243612	0.298573648	No Reduction	No Reduction	4747.390168	5.585171161	218.447303	200.9715188
2012	008000	Construction	C.1 Well Drilling	2.153115699	0.19198945	No Reduction	No Reduction	5925.543293	6.971121135	271.9520261	250.195864
2012	009000	Construction	C.1 Well Drilling	3.668082621	0.326998442	No Reduction	No Reduction	7103.696418	8.357071108	325.4567491	299.4202092
2012	010000	Construction	C.1 Well Drilling	2.948151632	0.262750414	No Reduction	No Reduction	9067.284959	10.66698773	414.6312876	381.4607846
2012	011000	Construction	C.1 Well Drilling	4.220568084	0.374040596	No Reduction	No Reduction	13484.46933	15.8601023	592.2478825	544.8680519
2012	012000	Construction	C.1 Well Drilling	5.65812237	0.501371464	No Reduction	No Reduction	16846.89225	19.81478506	739.2027504	680.0665304
2012	013000	Construction	C.1 Well Drilling	5.122344112	0.453848453	No Reduction	No Reduction	20689.6613	24.3344225	907.1511709	834.5790772
2012	014000	Construction	C.1 Well Drilling	1.885882238	0.167078023	No Reduction	No Reduction	25493.12261	29.9839693	1117.086697	1027.719761
2012	015000	Construction	C.1 Well Drilling	0.38414959	0.034031057	No Reduction	No Reduction	31257.27618	36.76342545	1369.009327	1259.488581
2015	001000	Construction	C.1 Well Drilling	6.442199871	0.621446993	No Reduction	No Reduction	650.4930445	0.766405804	36.05112075	33.16703109
2015	002000	Construction	C.1 Well Drilling	39.26650452	3.787844471	No Reduction	No Reduction	855.7315035	1.008083983	46.72603737	42.98795438
2015	003000	Construction	C.1 Well Drilling	33.74675582	3.255382097	No Reduction	No Reduction	1060.969963	1.249762162	57.40095398	52.80887767
2015	004000	Construction	C.1 Well Drilling	7.608975953	0.734000197	No Reduction	No Reduction	1266.208422	1.491440341	68.0758706	62.62980095
2015	005000	Construction	C.1 Well Drilling	16.28998976	1.571414469	No Reduction	No Reduction	1676.68534	1.974796699	89.42570384	82.27164753
2015	006000	Construction	C.1 Well Drilling	4.881512104	0.470895247	No Reduction	No Reduction	3961.954751	4.661204512	183.9929422	169.2735068
2015	007000	Construction	C.1 Well Drilling	3.565149284	0.343912258	No Reduction	No Reduction	4747.390168	5.585171161	219.9862565	202.387356
2015	008000	Construction	C.1 Well Drilling	1.994489114	0.192398468	No Reduction	No Reduction	5925.543293	6.971121135	273.9762279	252.0581296
2015	009000	Construction	C.1 Well Drilling	3.505314612	0.338140299	No Reduction	No Reduction	7103.696418	8.357071108	327.9661993	301.7289033
2015	010000	Construction	C.1 Well Drilling	3.94908844	0.380948962	No Reduction	No Reduction	9067.284959	10.66698773	417.9494849	384.5135261
2015	011000	Construction	C.1 Well Drilling	4.482614279	0.432415557	No Reduction	No Reduction	13484.46933	15.8601023	602.454831	554.2584445
2015	012000	Construction	C.1 Well Drilling	7.359664833	0.709950341	No Reduction	No Reduction	16846.89225	19.81478506	752.061946	691.8969903
2015	013000	Construction	C.1 Well Drilling	7.898176887	0.761897922	No Reduction	No Reduction	20689.6613	24.3344225	923.041506	849.1981855
2015	014000	Construction	C.1 Well Drilling	2.6925603	0.259737927	No Reduction	No Reduction	25493.12261	29.9839693	1136.765956	1045.82468
2015	015000	Construction	C.1 Well Drilling	0.658181407	0.063491494	No Reduction	No Reduction	31257.27618	36.76342545	1393.235296	1281.776472
2016	001000	Construction	C.1 Well Drilling	6.121016617	0.592259258	No Reduction	No Reduction	650.4930445	0.766405804	33.77182493	31.07007894
2016	002000	Construction	C.1 Well Drilling	37.35308568	3.614963028	No Reduction	No Reduction	855.7315035	1.008083983	43.76261426	40.26160512
2016	003000	Construction	C.1 Well Drilling	32.11678845	3.108599856	No Reduction	No Reduction	1060.969963	1.249762162	53.7534036	49.45313131
2016	004000	Construction	C.1 Well Drilling	7.228393266	0.699700478	No Reduction	No Reduction	1266.208422	1.491440341	63.74419293	58.64465749
2016	005000	Construction	C.1 Well Drilling	15.47451674	1.498081622	No Reduction	No Reduction	1676.68534	1.974796699	83.72577159	77.02770987
2016	006000	Construction	C.1 Well Drilling	4.799792915	0.46091819	No Reduction	No Reduction	3961.954751	4.661204512	178.7846588	164.4818861
2016	007000	Construction	C.1 Well Drilling	3.505649021	0.336655845	No Reduction	No Reduction	4747.390168	5.585171161	213.7816992	196.6791633
2016	008000	Construction	C.1 Well Drilling	1.961304601	0.188355929	No Reduction	No Reduction	5925.543293	6.971121135	266.2772598	244.975079
2016	009000	Construction	C.1 Well Drilling	3.447113105	0.331055544	No Reduction	No Reduction	7103.696418	8.357071108	318.7728203	293.2709947
2016	010000	Construction	C.1 Well Drilling	3.883666259	0.372991873	No Reduction	No Reduction	9067.284959	10.66698773	406.2654213	373.7641876
2016	011000	Construction	C.1 Well Drilling	4.418260122	0.424488596	No Reduction	No Reduction	13484.46933	15.8601023	587.6133242	540.6042583
2016	012000	Construction	C.1 Well Drilling	7.254150498	0.696960225	No Reduction	No Reduction	16846.89225	19.81478506	733.5667911	674.8814478
2016	013000	Construction	C.1 Well Drilling	7.785057026	0.74797696	No Reduction	No Reduction	20689.6613	24.3344225	900.3707532	828.3410929
2016	014000	Construction	C.1 Well Drilling	2.654029111	0.254997682	No Reduction	No Reduction	25493.12261	29.9839693	1108.875706	1020.165649
2016	015000	Construction	C.1 Well Drilling	0.648768964	0.062333843	No Reduction	No Reduction	31257.27618	36.76342545	1359.081649	1250.355117
2017	001000	Construction	C.1 Well Drilling	5.757900513	0.558998281	No Reduction	No Reduction	650.4930445	0.766405804	31.39998534	28.88798652

		Wells Drilled Each Year	Amount of Drilling Emissions Reduced in Changing 75<hp<120 Engines to Tier 4i in tons/year					
PM10LB	PM25LB		CALYEAR	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB
1.076025554	0.989943486	305	2012	1.20199494	0.11310914	No Reduction	No Reduction	0.1640939	0.15096638
6.238134783	5.739084326	1414	2012	32.2993294	3.03782811	No Reduction	No Reduction	4.41036129	4.05753262
4.924679584	4.530705193	930	2012	16.7684234	1.57660173	No Reduction	No Reduction	2.28997601	2.10677791
1.075141006	0.989129827	174	2012	0.68486632	0.06437841	No Reduction	No Reduction	0.09353727	0.08605429
2.383841692	2.193134368	300	2012	2.61780756	0.2460087	No Reduction	No Reduction	0.35757625	0.32897016
0.596263454	0.548562379	69	2012	0.15325817	0.01367542	No Reduction	No Reduction	0.02057109	0.0189254
0.449181707	0.413247164	44	2012	0.07363936	0.00656862	No Reduction	No Reduction	0.009882	0.00909144
0.288869789	0.265760211	23	2012	0.02476083	0.00220788	No Reduction	No Reduction	0.003322	0.00305624
0.49204704	0.452683292	33.00	2012	0.06052336	0.00539547	No Reduction	No Reduction	0.00811878	0.00746927
0.395406404	0.36377389	21	2012	0.03095559	0.00275888	No Reduction	No Reduction	0.00415177	0.00381963
0.563627175	0.518536991	25	2012	0.0527571	0.00467551	No Reduction	No Reduction	0.00704534	0.00648171
0.755528967	0.695086638	27	2012	0.07638465	0.00676851	No Reduction	No Reduction	0.01019964	0.00938367
0.683936841	0.629221905	20	2012	0.05122344	0.00453848	No Reduction	No Reduction	0.00683937	0.00629222
0.251788402	0.231645329	6	2012	0.00565765	0.00050123	No Reduction	No Reduction	0.00075537	0.00069494
0.051286229	0.04718333	1	2012	0.00019207	1.7016E-05	No Reduction	No Reduction	2.5643E-05	2.3592E-05
0.873857352	0.803948744	323	2015	1.04041528	0.10036369	No Reduction	No Reduction	0.14112796	0.12983772
5.326335716	4.900229137	1575	2015	30.9223723	2.98292752	No Reduction	No Reduction	4.19448938	3.85893045
4.577605576	4.211397107	1128	2015	19.0331703	1.8360355	No Reduction	No Reduction	2.58176954	2.37522797
1.032125545	0.949555598	218	2015	0.82937838	0.08000602	No Reduction	No Reduction	0.11250168	0.10350156
2.209668695	2.03289521	363	2015	2.95663314	0.28521173	No Reduction	No Reduction	0.40105487	0.36897048
0.662156585	0.609184059	89	2015	0.21722729	0.02095484	No Reduction	No Reduction	0.02946597	0.02710869
0.483597526	0.444909716	55	2015	0.09804161	0.00945759	No Reduction	No Reduction	0.01329893	0.01223502
0.270544067	0.248900547	25	2015	0.02493111	0.00240498	No Reduction	No Reduction	0.0033818	0.00311126
0.475481196	0.437442715	37.00	2015	0.06484832	0.0062556	No Reduction	No Reduction	0.0087964	0.00809269
0.53567725	0.492823067	33.00	2015	0.06515996	0.00628566	No Reduction	No Reduction	0.00883867	0.00813158
0.608047795	0.55940396	31	2015	0.06948052	0.00670244	No Reduction	No Reduction	0.00942474	0.00867076
0.998307619	0.918442996	41	2015	0.15087313	0.01455398	No Reduction	No Reduction	0.02046531	0.01882808
1.071354509	0.985646165	36	2015	0.14216718	0.01371416	No Reduction	No Reduction	0.01928438	0.01774163
0.365234492	0.336015731	10	2015	0.0134628	0.00129869	No Reduction	No Reduction	0.00182617	0.00168008
0.089279543	0.082137179	2	2015	0.00065818	6.3491E-05	No Reduction	No Reduction	8.928E-05	8.2137E-05
0.817783806	0.752361083	323	2016	0.98854418	0.09564987	No Reduction	No Reduction	0.13207208	0.12150631
4.989834948	4.590648413	1577	2016	29.4529081	2.85039835	No Reduction	No Reduction	3.93448486	3.61972627
4.289994886	3.946795275	1130	2016	18.1459855	1.75635892	No Reduction	No Reduction	2.42384711	2.22993933
0.96547749	0.888239381	218	2016	0.78789487	0.07626735	No Reduction	No Reduction	0.10523705	0.09681809
2.066741488	1.901402179	363	2016	2.80862479	0.27190181	No Reduction	No Reduction	0.37511358	0.3451045
0.642764661	0.591343488	89	2016	0.21359078	0.02051086	No Reduction	No Reduction	0.02860303	0.02631479
0.469484489	0.431925723	55	2016	0.09640535	0.00925804	No Reduction	No Reduction	0.01291082	0.01187796
0.262676617	0.241662492	25	2016	0.02451631	0.00235445	No Reduction	No Reduction	0.00328346	0.00302078
0.461687108	0.424752153	37	2016	0.06377159	0.00612453	No Reduction	No Reduction	0.00854121	0.00785791
0.520177389	0.478563195	33	2016	0.06408049	0.00615437	No Reduction	No Reduction	0.00858293	0.00789629
0.592470955	0.545073268	31	2016	0.06848303	0.00657957	No Reduction	No Reduction	0.0091833	0.00844864
0.972775529	0.894953473	41	2016	0.14871009	0.01428768	No Reduction	No Reduction	0.0199419	0.01834655
1.043988113	0.960469081	36	2016	0.14013103	0.01346359	No Reduction	No Reduction	0.01879179	0.01728844
0.355914595	0.327441426	10	2016	0.01327015	0.00127499	No Reduction	No Reduction	0.00177957	0.00163721
0.087003203	0.080042946	2	2016	0.00064877	6.2334E-05	No Reduction	No Reduction	8.7003E-05	8.0043E-05
0.759202367	0.698466161	323	2017	0.92990093	0.09027822	No Reduction	No Reduction	0.12261118	0.11280228

VERA Emissions (tons/year)	Wells Drilled Each Year	VERA Emissions (tons/year-well)	VERA Fee Reduction	Year
1.479197975	305			
39.74751883	1414			
20.63500111	930			
0.842781997	174			
3.221392509	300			
0.187504685	69			
0.090089977	44			
0.030290712	23			
0.074037614	33.00			
0.037866239	21			
0.064477948	25			
0.093352808	27			
0.062601294	20			
0.006914246	6			
0.000234733	1			
1.281906931	323	0.003968752	27.6780772	2015
38.09978921	1575	0.024190342	168.7034476	2015
23.45097533	1128	0.020789872	144.9885656	2015
1.021886085	218	0.004687551	32.69097961	2015
3.642899736	363	0.010035536	69.98783129	2015
0.267648095	89	0.003007282	20.97278445	2015
0.120798124	55	0.00219633	15.31720217	2015
0.030717896	25	0.001228716	8.56906416	2015
0.079900318	37.00	0.002159468	15.0601302	2015
0.080284292	33.00	0.002432857	16.96674699	2015
0.085607703	31	0.002761539	19.2589717	2015
0.185892417	41	0.004533961	31.61984678	2015
0.175165728	36	0.004865715	33.93349403	2015
0.016587664	10	0.001658766	11.56823659	2015
0.000810952	2	0.000405476	2.827791172	2015
1.216266139	323	0.00376553	26.26080511	2016
36.23779126	1577	0.022978942	160.2551403	2016
22.32619151	1130	0.019757692	137.7901412	2016
0.969399264	218	0.004446786	31.01188289	2016
3.455640182	363	0.00951967	66.39017805	2016
0.262704672	89	0.002951738	20.58541999	2016
0.118574207	55	0.002155895	15.03520948	2016
0.030154214	25	0.001206169	8.411819632	2016
0.078437331	37	0.002119928	14.78437702	2016
0.078817786	33	0.002388418	16.65682546	2016
0.084245905	31	0.00271761	18.952611	2016
0.182939668	41	0.004461943	31.11759136	2016
0.172386398	36	0.004788511	33.39507606	2016
0.016324707	10	0.001632471	11.38485062	2016
0.000798106	2	0.000399053	2.782995657	2016
1.142790337	323	0.003538051	24.67436475	2017

Amount of Construction - Well Drilling Emissions Reduced in C				
Year	NOX	ROG	CO	SOX
2015	55.63	5.37	0.00	0.00
2016	53.02	5.13	0.00	0.00
2017	50.11	4.87	0.00	0.00
2018	43.20	4.22	0.00	0.00
2019	39.85	3.94	0.00	0.00
2020	33.21	3.54	0.00	0.00
2021	31.95	3.45	0.00	0.00
2022	24.19	2.89	0.00	0.00
2023	22.29	2.78	0.00	0.00
2024	19.88	2.66	0.00	0.00
2025	18.54	2.58	0.00	0.00
2026	17.67	2.55	0.00	0.00
2027	16.91	2.52	0.00	0.00
2028	15.75	2.49	0.00	0.00
2029	15.22	2.43	0.00	0.00
2030	15.25	2.43	0.00	0.00
2031	15.28	2.44	0.00	0.00
2032	15.29	2.44	0.00	0.00
2033	15.30	2.44	0.00	0.00
2034	15.32	2.44	0.00	0.00
2035	15.35	2.45	0.00	0.00

Changing 75 < hp ≤ 120 Engines to Tier 4i		
PM10	PM25	VERA Fee Reduction Per Well
7.55	6.94	$620.14
7.08	6.52	$594.81
6.61	6.08	$568.27
5.48	5.04	$504.99
4.95	4.56	$450.27
4.19	3.85	$396.33
3.89	3.58	$383.56
2.94	2.71	$320.57
2.60	2.40	$303.62
2.31	2.13	$285.20
2.08	1.91	$273.77
1.90	1.75	$230.07
1.75	1.61	$223.55
1.61	1.49	$214.51
1.56	1.43	$210.17
1.56	1.44	$210.07
1.56	1.44	$210.23
1.56	1.44	$210.10
1.56	1.44	$210.52
1.57	1.44	$210.39
1.57	1.45	$210.28
	Average:	**$325.78**

	2000	3.74%	5.97%	No Reduct No Reduct	11.41%	11.41%	2017	002000	Construction	C.1 Well Drilling	942.654357	57.33159172
	3000	2.59%	4.16%	No Reduct No Reduct	7.98%	7.98%	2017	003000	Construction	C.1 Well Drilling	1166.168005	70.66328112
	4000	0.49%	0.79%	No Reduct No Reduct	1.52%	1.52%	2017	004000	Construction	C.1 Well Drilling	1389.681653	83.99497053
	5000	0.79%	1.28%	No Reduct No Reduct	2.46%	2.46%	2017	005000	Construction	C.1 Well Drilling	1836.70895	110.6583493
	6000	0.10%	0.18%	No Reduct No Reduct	0.36%	0.36%	2017	006000	Construction	C.1 Well Drilling	4995.849988	257.5406623
	7000	0.06%	0.11%	No Reduct No Reduct	0.22%	0.22%	2017	007000	Construction	C.1 Well Drilling	5985.300033	308.2478279
2017	8000	0.03%	0.05%	No Reduct No Reduct	0.10%	0.10%	2017	008000	Construction	C.1 Well Drilling	7469.4751	384.3085764
	9000	0.04%	0.07%	No Reduct No Reduct	0.14%	0.14%	2017	009000	Construction	C.1 Well Drilling	8953.650168	460.3693248
	10000	0.03%	0.06%	No Reduct No Reduct	0.13%	0.13%	2017	010000	Construction	C.1 Well Drilling	11427.27528	587.1372389
	11000	0.03%	0.05%	No Reduct No Reduct	0.10%	0.10%	2017	011000	Construction	C.1 Well Drilling	17043.46992	860.972981
	12000	0.03%	0.06%	No Reduct No Reduct	0.13%	0.13%	2017	012000	Construction	C.1 Well Drilling	21292.18745	1075.215018
	13000	0.03%	0.06%	No Reduct No Reduct	0.12%	0.12%	2017	013000	Construction	C.1 Well Drilling	26147.86464	1320.06306
	14000	0.01%	0.02%	No Reduct No Reduct	0.03%	0.03%	2017	014000	Construction	C.1 Well Drilling	32217.46112	1626.123112
	15000	0.00%	0.00%	No Reduct No Reduct	0.01%	0.01%	2017	015000	Construction	C.1 Well Drilling	39500.9769	1993.395175
	1000	0.80%	1.28%	No Reduct No Reduct	2.43%	2.43%	2018	001000	Construction	C.1 Well Drilling	618.2650511	38.07086535
	2000	3.73%	5.96%	No Reduct No Reduct	11.40%	11.40%	2018	002000	Construction	C.1 Well Drilling	810.1939548	49.62555854
	3000	2.59%	4.16%	No Reduct No Reduct	7.98%	7.98%	2018	003000	Construction	C.1 Well Drilling	1002.122858	61.18025173
	4000	0.49%	0.79%	No Reduct No Reduct	1.52%	1.52%	2018	004000	Construction	C.1 Well Drilling	1194.051762	72.73494492
	5000	0.79%	1.28%	No Reduct No Reduct	2.47%	2.47%	2018	005000	Construction	C.1 Well Drilling	1577.909569	95.84433131
	6000	0.09%	0.18%	No Reduct No Reduct	0.36%	0.36%	2018	006000	Construction	C.1 Well Drilling	4823.38249	244.8783498
	7000	0.06%	0.11%	No Reduct No Reduct	0.22%	0.22%	2018	007000	Construction	C.1 Well Drilling	5779.56332	293.1726627
2018	8000	0.03%	0.05%	No Reduct No Reduct	0.10%	0.10%	2018	008000	Construction	C.1 Well Drilling	7213.834565	365.6141319
	9000	0.04%	0.07%	No Reduct No Reduct	0.14%	0.14%	2018	009000	Construction	C.1 Well Drilling	8648.10581	438.0556011
	10000	0.03%	0.06%	No Reduct No Reduct	0.13%	0.13%	2018	010000	Construction	C.1 Well Drilling	11038.55788	558.7913832
	11000	0.03%	0.05%	No Reduct No Reduct	0.10%	0.10%	2018	011000	Construction	C.1 Well Drilling	16557.08617	825.6487898
	12000	0.03%	0.06%	No Reduct No Reduct	0.13%	0.13%	2018	012000	Construction	C.1 Well Drilling	20685.73813	1031.209291
	13000	0.03%	0.06%	No Reduct No Reduct	0.12%	0.12%	2018	013000	Construction	C.1 Well Drilling	25404.19751	1266.135578
	14000	0.01%	0.02%	No Reduct No Reduct	0.03%	0.03%	2018	014000	Construction	C.1 Well Drilling	31302.27173	1559.793436
	15000	0.00%	0.00%	No Reduct No Reduct	0.01%	0.01%	2018	015000	Construction	C.1 Well Drilling	38379.9608	1912.182867
	1000	0.80%	1.27%	No Reduct No Reduct	2.43%	2.43%	2019	001000	Construction	C.1 Well Drilling	569.7563561	35.5442175
	2000	3.74%	5.97%	No Reduct No Reduct	11.42%	11.42%	2019	002000	Construction	C.1 Well Drilling	746.8582133	46.37616294
	3000	2.59%	4.16%	No Reduct No Reduct	7.97%	7.97%	2019	003000	Construction	C.1 Well Drilling	923.9600705	57.20810837
	4000	0.49%	0.79%	No Reduct No Reduct	1.51%	1.51%	2019	004000	Construction	C.1 Well Drilling	1101.061928	68.04005381
	5000	0.80%	1.28%	No Reduct No Reduct	2.47%	2.47%	2019	005000	Construction	C.1 Well Drilling	1455.265642	89.70394468
	6000	0.09%	0.18%	No Reduct No Reduct	0.36%	0.36%	2019	006000	Construction	C.1 Well Drilling	4096.004555	186.2976253
	7000	0.06%	0.11%	No Reduct No Reduct	0.22%	0.22%	2019	007000	Construction	C.1 Well Drilling	4907.51531	222.9474742
2019	8000	0.03%	0.05%	No Reduct No Reduct	0.10%	0.10%	2019	008000	Construction	C.1 Well Drilling	6124.781441	277.9222474
	9000	0.04%	0.07%	No Reduct No Reduct	0.14%	0.14%	2019	009000	Construction	C.1 Well Drilling	7342.047572	332.8970206
	10000	0.03%	0.06%	No Reduct No Reduct	0.13%	0.13%	2019	010000	Construction	C.1 Well Drilling	9370.824458	424.5216427
	11000	0.03%	0.05%	No Reduct No Reduct	0.10%	0.10%	2019	011000	Construction	C.1 Well Drilling	14035.91596	622.1002856
	12000	0.03%	0.06%	No Reduct No Reduct	0.13%	0.13%	2019	012000	Construction	C.1 Well Drilling	17535.28226	776.8632618
	13000	0.03%	0.06%	No Reduct No Reduct	0.12%	0.12%	2019	013000	Construction	C.1 Well Drilling	21534.55802	953.7352345
	14000	0.01%	0.02%	No Reduct No Reduct	0.03%	0.03%	2019	014000	Construction	C.1 Well Drilling	26533.65273	1174.8252
	15000	0.00%	0.00%	No Reduct No Reduct	0.01%	0.01%	2019	015000	Construction	C.1 Well Drilling	32532.56637	1440.133159
	1000	0.80%	1.28%	No Reduct No Reduct	2.43%	2.43%	2020	001000	Construction	C.1 Well Drilling	473.7173815	31.85752448
	2000	3.74%	5.97%	No Reduct No Reduct	11.41%	11.41%	2020	002000	Construction	C.1 Well Drilling	619.9858554	41.56484144
	3000	2.59%	4.16%	No Reduct No Reduct	7.98%	7.98%	2020	003000	Construction	C.1 Well Drilling	766.2543294	51.27215841
	4000	0.49%	0.79%	No Reduct No Reduct	1.52%	1.52%	2020	004000	Construction	C.1 Well Drilling	912.5228033	60.97947537
	5000	0.79%	1.28%	No Reduct No Reduct	2.47%	2.47%	2020	005000	Construction	C.1 Well Drilling	1205.059751	80.39410929
	6000	0.09%	0.18%	No Reduct No Reduct	0.36%	0.36%	2020	006000	Construction	C.1 Well Drilling	4023.834188	181.5986855

855.7315035	1.008083983	40.71607697	37.45879081	2017	002000	Construction	C.1 Well Drilling	35.23706356	3.422536036	No Reduction	No Reduction
1060.969963	1.249762162	50.0321686	46.02959511	2017	003000	Construction	C.1 Well Drilling	30.25317924	2.939313014	No Reduction	No Reduction
1266.208422	1.491440341	59.34826023	54.60039941	2017	004000	Construction	C.1 Well Drilling	6.835016522	0.664203275	No Reduction	No Reduction
1676.68534	1.974796699	77.98044349	71.74200801	2017	005000	Construction	C.1 Well Drilling	14.56792389	1.416022081	No Reduction	No Reduction
3961.954751	4.661204512	174.9119482	160.9189923	2017	006000	Construction	C.1 Well Drilling	4.747945306	0.454123112	No Reduction	No Reduction
4747.390168	5.585171161	209.2039957	192.4676761	2017	007000	Construction	C.1 Well Drilling	3.468176425	0.33175236	No Reduction	No Reduction
5925.543293	6.971121135	260.6420671	239.7907017	2017	008000	Construction	C.1 Well Drilling	1.940561917	0.185646037	No Reduction	No Reduction
7103.696418	8.357071108	312.0801384	287.1137273	2017	009000	Construction	C.1 Well Drilling	3.410917558	0.32633213	No Reduction	No Reduction
9067.284959	10.66698773	397.8102572	365.9854367	2017	010000	Construction	C.1 Well Drilling	3.843207186	0.367718698	No Reduction	No Reduction
13484.46933	15.8601023	577.269724	531.0881461	2017	011000	Construction	C.1 Well Drilling	4.379142256	0.41937216	No Reduction	No Reduction
16846.89225	19.81478506	720.7242274	663.0662892	2017	012000	Construction	C.1 Well Drilling	7.190221401	0.688605886	No Reduction	No Reduction
20689.6613	24.3344225	884.6722312	813.8984527	2017	013000	Construction	C.1 Well Drilling	7.716686501	0.739048092	No Reduction	No Reduction
25493.12261	29.9839693	1089.607236	1002.438657	2017	014000	Construction	C.1 Well Drilling	2.630787535	0.25196411	No Reduction	No Reduction
31257.27618	36.76342545	1335.529242	1228.686903	2017	015000	Construction	C.1 Well Drilling	0.643100614	0.061594316	No Reduction	No Reduction
650.4930445	0.766405804	25.96951865	23.89195716	2018	001000	Construction	C.1 Well Drilling	4.973371936	0.485934201	No Reduction	No Reduction
855.7315035	1.008083983	33.66149016	30.96857094	2018	002000	Construction	C.1 Well Drilling	30.25909664	2.959914507	No Reduction	No Reduction
1060.969963	1.249762162	41.35346166	38.04518473	2018	003000	Construction	C.1 Well Drilling	26.00418769	2.545515365	No Reduction	No Reduction
1266.208422	1.491440341	49.04543317	45.12179851	2018	004000	Construction	C.1 Well Drilling	5.863980516	0.574296229	No Reduction	No Reduction
1676.68534	1.974796699	64.42937617	59.27502608	2018	005000	Construction	C.1 Well Drilling	12.53081477	1.227982417	No Reduction	No Reduction
3961.954751	4.661204512	163.1964128	150.1406998	2018	006000	Construction	C.1 Well Drilling	4.577128875	0.431144954	No Reduction	No Reduction
4747.390168	5.585171161	195.2569746	179.6364166	2018	007000	Construction	C.1 Well Drilling	3.343916331	0.315052251	No Reduction	No Reduction
5925.543293	6.971121135	243.3478172	223.8799918	2018	008000	Construction	C.1 Well Drilling	1.871322842	0.176349284	No Reduction	No Reduction
7103.696418	8.357071108	291.4386598	268.123567	2018	009000	Construction	C.1 Well Drilling	3.28955548	0.310047202	No Reduction	No Reduction
9067.284959	10.66698773	371.5900642	341.862859	2018	010000	Construction	C.1 Well Drilling	3.706880345	0.349438625	No Reduction	No Reduction
13484.46933	15.8601023	544.5728937	501.0070622	2018	011000	Construction	C.1 Well Drilling	4.247760911	0.40156009	No Reduction	No Reduction
16846.89225	19.81478506	679.9927161	625.5932988	2018	012000	Construction	C.1 Well Drilling	6.974902239	0.659427943	No Reduction	No Reduction
20689.6613	24.3344225	834.7582274	767.9775692	2018	013000	Construction	C.1 Well Drilling	7.485920823	0.70778826	No Reduction	No Reduction
25493.12261	29.9839693	1028.215117	945.9579072	2018	014000	Construction	C.1 Well Drilling	2.55220432	0.241322308	No Reduction	No Reduction
31257.27618	36.76342545	1260.363384	1159.534313	2018	015000	Construction	C.1 Well Drilling	0.623908259	0.058995892	No Reduction	No Reduction
650.4930445	0.766405804	23.45834049	21.58167325	2019	001000	Construction	C.1 Well Drilling	4.576268804	0.453001648	No Reduction	No Reduction
855.7315035	1.008083983	30.43243937	27.99784422	2019	002000	Construction	C.1 Well Drilling	27.92209055	2.768926212	No Reduction	No Reduction
1060.969963	1.249762162	37.40653826	34.4140152	2019	003000	Construction	C.1 Well Drilling	23.96099108	2.378763696	No Reduction	No Reduction
1266.208422	1.491440341	44.38063715	40.83018618	2019	004000	Construction	C.1 Well Drilling	5.39917267	0.536418324	No Reduction	No Reduction
1676.68534	1.974796699	58.32883492	53.66252813	2019	005000	Construction	C.1 Well Drilling	11.57116438	1.150733734	No Reduction	No Reduction
3961.954751	4.661204512	124.3601064	114.4112979	2019	006000	Construction	C.1 Well Drilling	3.881038717	0.32751134	No Reduction	No Reduction
4747.390168	5.585171161	148.7249189	136.8269254	2019	007000	Construction	C.1 Well Drilling	2.835098455	0.239225669	No Reduction	No Reduction
5925.543293	6.971121135	185.2721377	170.4503667	2019	008000	Construction	C.1 Well Drilling	1.586423893	0.133850545	No Reduction	No Reduction
7103.696418	8.357071108	221.8193565	204.0738079	2019	009000	Construction	C.1 Well Drilling	2.788556967	0.235263521	No Reduction	No Reduction
9067.284959	10.66698773	282.7313878	260.1128767	2019	010000	Construction	C.1 Well Drilling	3.142100969	0.265074011	No Reduction	No Reduction
13484.46933	15.8601023	411.1971285	378.3013582	2019	011000	Construction	C.1 Well Drilling	3.595530858	0.302107635	No Reduction	No Reduction
16846.89225	19.81478506	513.3623997	472.2934077	2019	012000	Construction	C.1 Well Drilling	5.903722959	0.496033741	No Reduction	No Reduction
20689.6613	24.3344225	630.1227096	579.7128928	2019	013000	Construction	C.1 Well Drilling	6.336097003	0.532349776	No Reduction	No Reduction
25493.12261	29.9839693	776.073097	713.9872492	2019	014000	Construction	C.1 Well Drilling	2.160144129	0.181488763	No Reduction	No Reduction
31257.27618	36.76342545	951.2135618	875.1164769	2019	015000	Construction	C.1 Well Drilling	0.528056799	0.044365064	No Reduction	No Reduction
650.4930445	0.766405804	19.78680255	18.20385834	2020	001000	Construction	C.1 Well Drilling	3.810860014	0.406653185	No Reduction	No Reduction
855.7315035	1.008083983	25.64783746	23.59601046	2020	002000	Construction	C.1 Well Drilling	23.1731971	2.481059055	No Reduction	No Reduction
1060.969963	1.249762162	31.50887236	28.98816257	2020	003000	Construction	C.1 Well Drilling	19.87636125	2.132493324	No Reduction	No Reduction
1266.208422	1.491440341	37.36990727	34.38031469	2020	004000	Construction	C.1 Well Drilling	4.488330738	0.482223416	No Reduction	No Reduction
1676.68534	1.974796699	49.09197709	45.16461892	2020	005000	Construction	C.1 Well Drilling	9.567323465	1.029756686	No Reduction	No Reduction
3961.954751	4.661204512	119.4004227	109.8483889	2020	006000	Construction	C.1 Well Drilling	3.806928408	0.318771006	No Reduction	No Reduction

4.647219192	4.2754419	1581	2017	27.8548987	2.70551474	No Reduction	No Reduction	3.67362677	3.37973682
3.990510207	3.671269371	1131	2017	17.1081729	1.66218151	No Reduction	No Reduction	2.25663352	2.07610283
0.901656816	0.829524356	219	2017	0.74843431	0.07273026	No Reduction	No Reduction	0.09873142	0.09083292
1.922015257	1.768254046	363	2017	2.64407819	0.25700801	No Reduction	No Reduction	0.34884577	0.32093811
0.627892577	0.577661172	89	2017	0.21128357	0.02020848	No Reduction	No Reduction	0.02794122	0.02570592
0.45873812	0.422039063	55	2017	0.09537485	0.00912319	No Reduction	No Reduction	0.0126153	0.01160607
0.25672962	0.236191255	25	2017	0.02425702	0.00232058	No Reduction	No Reduction	0.00320912	0.00295239
0.451311836	0.415206903	37	2017	0.06310197	0.00603714	No Reduction	No Reduction	0.00834927	0.00768133
0.508582859	0.467896227	33	2017	0.06341292	0.00606736	No Reduction	No Reduction	0.00839162	0.00772029
0.581163514	0.534670423	31	2017	0.0678767	0.00650027	No Reduction	No Reduction	0.00900803	0.00828739
0.954302864	0.877958621	41	2017	0.14739954	0.01411642	No Reduction	No Reduction	0.01956321	0.01799815
1.024237568	0.942298579	36	2017	0.13890036	0.01330287	No Reduction	No Reduction	0.01843628	0.01696137
0.349202254	0.321266073	10	2017	0.01315394	0.00125982	No Reduction	No Reduction	0.00174601	0.00160633
0.085366451	0.078537134	2	2017	0.0006431	6.1594E-05	No Reduction	No Reduction	8.5366E-05	7.8537E-05
0.630838175	0.580371107	325	2018	0.80817294	0.07896431	No Reduction	No Reduction	0.1025112	0.0943103
3.838665747	3.531572687	1582	2018	23.9349454	2.34129237	No Reduction	No Reduction	3.03638461	2.793474
3.299160116	3.03522729	1133	2018	14.7313723	1.44203445	No Reduction	No Reduction	1.86897421	1.71945626
0.744006916	0.684486432	219	2018	0.64210587	0.06288544	No Reduction	No Reduction	0.08146876	0.07495126
1.589991985	1.462792634	364	2018	2.28060829	0.2234928	No Reduction	No Reduction	0.28937854	0.26622826
0.584953846	0.538157539	89	2018	0.20368223	0.01918595	No Reduction	No Reduction	0.02603045	0.02394801
0.427510249	0.393309423	55	2018	0.0919577	0.00866394	No Reduction	No Reduction	0.01175653	0.01081601
0.239333803	0.220187103	25	2018	0.02339154	0.00220437	No Reduction	No Reduction	0.00299167	0.00275234
0.420826301	0.38716021	37	2018	0.06085678	0.00573587	No Reduction	No Reduction	0.00778529	0.00716246
0.474345686	0.436398028	33	2018	0.06116353	0.00576574	No Reduction	No Reduction	0.0078267	0.00720057
0.547420051	0.503626438	31	2018	0.06584029	0.00622418	No Reduction	No Reduction	0.00848501	0.00780621
0.899014066	0.827092927	41	2018	0.1429855	0.01351827	No Reduction	No Reduction	0.01842979	0.01695541
0.964992935	0.887793516	36	2018	0.13474657	0.01274019	No Reduction	No Reduction	0.01736987	0.01598028
0.329030505	0.302708064	10	2018	0.01276102	0.00120661	No Reduction	No Reduction	0.00164515	0.00151354
0.080440493	0.074005253	2	2018	0.00062391	5.8996E-05	No Reduction	No Reduction	8.044E-05	7.4005E-05
0.5689806	0.523462139	325	2019	0.74364368	0.07361277	No Reduction	No Reduction	0.09245935	0.0850626
3.47397377	3.19605605	1586	2019	22.1422178	2.19575849	No Reduction	No Reduction	2.7548612	2.53447245
2.982416498	2.743823164	1134	2019	13.5858819	1.34875902	No Reduction	No Reduction	1.69103015	1.55574773
0.672230227	0.618451872	219	2019	0.59120941	0.05873781	No Reduction	No Reduction	0.07360921	0.06772048
1.441225366	1.325927344	365	2019	2.1117375	0.21000891	No Reduction	No Reduction	0.26302363	0.24198174
0.445080106	0.409473698	89	2019	0.17270622	0.01457425	No Reduction	No Reduction	0.01980606	0.01822158
0.325139566	0.299128396	55	2019	0.07796521	0.00657871	No Reduction	No Reduction	0.00894134	0.00822603
0.181941933	0.167386582	25	2019	0.0198303	0.00167313	No Reduction	No Reduction	0.00227427	0.00209233
0.319816791	0.294231457	37	2019	0.0515883	0.00435238	No Reduction	No Reduction	0.00591661	0.00544328
0.360371961	0.331542202	33	2019	0.05184467	0.00437372	No Reduction	No Reduction	0.00594614	0.00547045
0.41272508	0.379707066	31	2019	0.05573073	0.00468267	No Reduction	No Reduction	0.00639724	0.00588546
0.677692046	0.623476672	41	2019	0.12102632	0.01016869	No Reduction	No Reduction	0.01389269	0.01278127
0.727335296	0.669148484	36	2019	0.11404975	0.0095823	No Reduction	No Reduction	0.01309204	0.01204467
0.247971012	0.22813333	10	2019	0.01080072	0.00090744	No Reduction	No Reduction	0.00123986	0.00114067
0.060618207	0.05576875	2	2019	0.00052806	4.4365E-05	No Reduction	No Reduction	6.0618E-05	5.5769E-05
0.480681183	0.442226677	326	2020	0.62117018	0.06628447	No Reduction	No Reduction	0.07835103	0.07208295
2.927082251	2.692915824	1588	2020	18.3995185	1.96996089	No Reduction	No Reduction	2.32410331	2.13817516
2.512846738	2.311818987	1136	2020	11.2897732	1.21125621	No Reduction	No Reduction	1.42729695	1.31311318
0.567769657	0.522348138	220	2020	0.49371638	0.05304458	No Reduction	No Reduction	0.06245466	0.0574583
1.211173075	1.114279234	365	2020	1.74603653	0.1879306	No Reduction	No Reduction	0.22103909	0.20335596
0.426687629	0.392552619	89	2020	0.16940831	0.01418531	No Reduction	No Reduction	0.0189876	0.01746859

34.23404025	1581	0.021653409	151.0108771	2017
21.02698789	1131	0.018591501	129.6571296	2017
0.919895989	219	0.004200438	29.29385675	2017
3.249931962	363	0.008952981	62.43808679	2017
0.259433264	89	0.00291498	20.32907399	2017
0.11711334	55	0.002129333	14.8499715	2017
0.02978672	25	0.001191469	8.309303318	2017
0.077488388	37	0.002094281	14.60551404	2017
0.077871894	33	0.002359754	16.45692699	2017
0.083385008	31	0.002689839	18.75893694	2017
0.181079168	41	0.004416565	30.80112484	2017
0.170639499	36	0.004739986	33.05666292	2017
0.016159769	10	0.001615977	11.26982325	2017
0.000790061	2	0.000395031	2.754944035	2017
0.989648451	325	0.003045072	21.23633322	2018
29.31262242	1582	0.018528838	129.2201193	2018
18.04238099	1133	0.015924432	111.0569859	2018
0.786460061	219	0.003591142	25.04462313	2018
2.793479629	364	0.007674395	53.52122783	2018
0.248898632	89	0.002796614	19.5035849	2018
0.112378168	55	0.002043239	14.24955168	2018
0.028587574	25	0.001143503	7.974789672	2018
0.074377936	37	0.002010214	14.01923586	2018
0.074755967	33	0.002265332	15.79842765	2018
0.080549486	31	0.002598371	18.12103605	2018
0.174933557	41	0.004266672	29.75577139	2018
0.164856636	36	0.004579351	31.93639394	2018
0.015612786	10	0.001561279	10.88835673	2018
0.000763345	2	0.000381672	2.661782775	2018
0.909715796	325	0.002799126	19.52110142	2019
27.09283749	1586	0.017082495	119.133322	2019
16.62567111	1134	0.014661086	102.2464112	2019
0.723556424	219	0.003303911	23.0414726	2019
2.584770035	365	0.007081562	49.38681156	2019
0.207086542	89	0.002326815	16.22720838	2019
0.093485251	55	0.001699732	11.85392989	2019
0.023777705	25	0.000951108	6.633028488	2019
0.06185729	37	0.001671819	11.65926319	2019
0.062164525	33	0.001883773	13.13743618	2019
0.066810635	31	0.002155182	15.03023778	2019
0.145087699	41	0.003538724	24.67906378	2019
0.136724077	36	0.003797891	26.4864921	2019
0.01294802	10	0.001294802	9.029948816	2019
0.00063304	2	0.00031652	2.207410721	2019
0.765805684	326	0.002349097	16.38260381	2020
22.69358269	1588	0.014290669	99.66312701	2020
13.92832635	1136	0.012260851	85.50717248	2020
0.609215619	220	0.002769162	19.31213513	2020
2.155006214	365	0.005904127	41.175379	2020
0.202581223	89	0.002276194	15.87417362	2020

	7000	0.06%	0.11%	No Reduct	No Reduct	0.22%	0.22%	2020	007000	Construction	C.1 Well Drilling	4821.618634	217.3713079
2020	8000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2020	008000	Construction	C.1 Well Drilling	6018.295302	271.0302415
	9000	0.04%	0.07%	No Reduct	No Reduct	0.14%	0.14%	2020	009000	Construction	C.1 Well Drilling	7214.971971	324.6891751
	10000	0.03%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2020	010000	Construction	C.1 Well Drilling	9209.433085	414.1207311
	11000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2020	011000	Construction	C.1 Well Drilling	13837.57353	609.3806479
	12000	0.03%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2020	012000	Construction	C.1 Well Drilling	17288.23892	761.0419164
	13000	0.03%	0.06%	No Reduct	No Reduct	0.12%	0.12%	2020	013000	Construction	C.1 Well Drilling	21231.85651	934.3690805
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2020	014000	Construction	C.1 Well Drilling	26161.3785	1151.028036
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%	2020	015000	Construction	C.1 Well Drilling	32076.80488	1411.018782
	1000	0.80%	1.27%	No Reduct	No Reduct	2.43%	2.43%	2021	001000	Construction	C.1 Well Drilling	454.0675786	30.83737278
	2000	3.74%	5.97%	No Reduct	No Reduct	11.41%	11.41%	2021	002000	Construction	C.1 Well Drilling	594.768133	40.29517785
	3000	2.60%	4.16%	No Reduct	No Reduct	7.98%	7.98%	2021	003000	Construction	C.1 Well Drilling	735.4686874	49.75298292
	4000	0.49%	0.79%	No Reduct	No Reduct	1.52%	1.52%	2021	004000	Construction	C.1 Well Drilling	876.1692418	59.21078799
	5000	0.79%	1.28%	No Reduct	No Reduct	2.47%	2.47%	2021	005000	Construction	C.1 Well Drilling	1157.570351	78.12639812
	6000	0.09%	0.18%	No Reduct	No Reduct	0.36%	0.36%	2021	006000	Construction	C.1 Well Drilling	3979.529499	180.8457994
	7000	0.06%	0.11%	No Reduct	No Reduct	0.22%	0.22%	2021	007000	Construction	C.1 Well Drilling	4769.042215	216.5221677
2021	8000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2021	008000	Construction	C.1 Well Drilling	5953.31129	270.0367203
	9000	0.04%	0.07%	No Reduct	No Reduct	0.14%	0.14%	2021	009000	Construction	C.1 Well Drilling	7137.580365	323.5512728
	10000	0.03%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2021	010000	Construction	C.1 Well Drilling	9111.362157	412.7421937
	11000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2021	011000	Construction	C.1 Well Drilling	13724.00099	609.9411943
	12000	0.03%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2021	012000	Construction	C.1 Well Drilling	17147.00976	761.8105034
	13000	0.03%	0.06%	No Reduct	No Reduct	0.12%	0.12%	2021	013000	Construction	C.1 Well Drilling	21059.01979	935.3754282
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2021	014000	Construction	C.1 Well Drilling	25949.03232	1152.331584
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%	2021	015000	Construction	C.1 Well Drilling	31817.04735	1412.678971
	1000	0.80%	1.27%	No Reduct	No Reduct	2.42%	2.42%	2022	001000	Construction	C.1 Well Drilling	341.9227276	25.77051109
	2000	3.74%	5.98%	No Reduct	No Reduct	11.43%	11.43%	2022	002000	Construction	C.1 Well Drilling	446.6023834	33.65855547
	3000	2.60%	4.16%	No Reduct	No Reduct	7.98%	7.98%	2022	003000	Construction	C.1 Well Drilling	551.2820392	41.54659984
	4000	0.49%	0.79%	No Reduct	No Reduct	1.51%	1.51%	2022	004000	Construction	C.1 Well Drilling	655.961695	49.43464421
	5000	0.79%	1.28%	No Reduct	No Reduct	2.47%	2.47%	2022	005000	Construction	C.1 Well Drilling	865.3210066	65.21073296
	6000	0.09%	0.18%	No Reduct	No Reduct	0.36%	0.36%	2022	006000	Construction	C.1 Well Drilling	3920.329107	178.9607315
	7000	0.06%	0.11%	No Reduct	No Reduct	0.22%	0.22%	2022	007000	Construction	C.1 Well Drilling	4698.818176	214.3316023
2022	8000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2022	008000	Construction	C.1 Well Drilling	5866.55178	267.3879083
	9000	0.04%	0.07%	No Reduct	No Reduct	0.14%	0.14%	2022	009000	Construction	C.1 Well Drilling	7034.285384	320.4442144
	10000	0.03%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2022	010000	Construction	C.1 Well Drilling	8980.508058	408.8713912
	11000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2022	011000	Construction	C.1 Well Drilling	13571.14572	607.5116973
	12000	0.03%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2022	012000	Construction	C.1 Well Drilling	16956.96121	758.8630271
	13000	0.03%	0.06%	No Reduct	No Reduct	0.11%	0.11%	2022	013000	Construction	C.1 Well Drilling	20826.46463	931.8359755
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2022	014000	Construction	C.1 Well Drilling	25663.3439	1148.052161
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%	2022	015000	Construction	C.1 Well Drilling	31467.59903	1407.511583
	1000	0.80%	1.27%	No Reduct	No Reduct	2.43%	2.43%	2023	001000	Construction	C.1 Well Drilling	313.9175079	24.67658143
	2000	3.74%	5.98%	No Reduct	No Reduct	11.43%	11.43%	2023	002000	Construction	C.1 Well Drilling	410.0209101	32.26580395
	3000	2.59%	4.16%	No Reduct	No Reduct	7.97%	7.97%	2023	003000	Construction	C.1 Well Drilling	506.1243122	39.85502648
	4000	0.49%	0.79%	No Reduct	No Reduct	1.52%	1.52%	2023	004000	Construction	C.1 Well Drilling	602.2277144	47.444249
	5000	0.79%	1.28%	No Reduct	No Reduct	2.46%	2.46%	2023	005000	Construction	C.1 Well Drilling	794.4345188	62.62269405
	6000	0.09%	0.17%	No Reduct	No Reduct	0.36%	0.36%	2023	006000	Construction	C.1 Well Drilling	3880.922951	178.4587114
	7000	0.06%	0.11%	No Reduct	No Reduct	0.22%	0.22%	2023	007000	Construction	C.1 Well Drilling	4651.986081	213.7686709
2023	8000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2023	008000	Construction	C.1 Well Drilling	5808.580775	266.7336101
	9000	0.04%	0.07%	No Reduct	No Reduct	0.14%	0.14%	2023	009000	Construction	C.1 Well Drilling	6965.17547	319.6985494
	10000	0.03%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2023	010000	Construction	C.1 Well Drilling	8892.833295	407.9734481
	11000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2023	011000	Construction	C.1 Well Drilling	13468.3814	608.4672392

4747.390168	5.585171161	142.8397677	131.4125863	2020	007000	Construction	C.1 Well Drilling	2.781290985	0.232891978	No Reduction	No Reduction
5925.543293	6.971121135	177.9987851	163.7588823	2020	008000	Construction	C.1 Well Drilling	1.556500373	0.130335185	No Reduction	No Reduction
7103.696418	8.357071108	213.1578026	196.1051784	2020	009000	Construction	C.1 Well Drilling	2.73617622	0.229118197	No Reduction	No Reduction
9067.284959	10.66698773	271.756165	250.0156718	2020	010000	Construction	C.1 Well Drilling	3.083346411	0.258191164	No Reduction	No Reduction
13484.46933	15.8601023	397.7571575	365.9365849	2020	011000	Construction	C.1 Well Drilling	3.539397108	0.295486094	No Reduction	No Reduction
16846.89225	19.81478506	496.6455224	456.9138806	2020	012000	Construction	C.1 Well Drilling	5.811805255	0.485201686	No Reduction	No Reduction
20689.6613	24.3344225	609.6607966	560.8879329	2020	013000	Construction	C.1 Well Drilling	6.237648735	0.520756616	No Reduction	No Reduction
25493.12261	29.9839693	750.9298894	690.8554982	2020	014000	Construction	C.1 Well Drilling	2.126637176	0.177545422	No Reduction	No Reduction
31257.27618	36.76342545	920.4528007	846.8165766	2020	015000	Construction	C.1 Well Drilling	0.519876882	0.043402859	No Reduction	No Reduction
650.4930445	0.766405804	18.29023578	16.82701692	2021	001000	Construction	C.1 Well Drilling	3.647306315	0.393040762	No Reduction	No Reduction
855.7315035	1.008083983	23.74861487	21.84872568	2021	002000	Construction	C.1 Well Drilling	22.22524519	2.404688054	No Reduction	No Reduction
1060.969963	1.249762162	29.20699396	26.87043444	2021	003000	Construction	C.1 Well Drilling	19.09948202	2.071660882	No Reduction	No Reduction
1266.208422	1.491440341	34.66537304	31.8921432	2021	004000	Construction	C.1 Well Drilling	4.303057983	0.467534347	No Reduction	No Reduction
1676.68534	1.974796699	45.58213122	41.93556072	2021	005000	Construction	C.1 Well Drilling	9.201646834	1.001946391	No Reduction	No Reduction
3961.954751	4.661204512	115.4316973	106.1971615	2021	006000	Construction	C.1 Well Drilling	3.759364456	0.316973246	No Reduction	No Reduction
4747.390168	5.585171161	138.135017	127.0842157	2021	007000	Construction	C.1 Well Drilling	2.746836485	0.231634235	No Reduction	No Reduction
5925.543293	6.971121135	172.1899967	158.4147969	2021	008000	Construction	C.1 Well Drilling	1.53738414	0.129662627	No Reduction	No Reduction
7103.696418	8.357071108	206.2449763	189.7453782	2021	009000	Construction	C.1 Well Drilling	2.702766307	0.227972759	No Reduction	No Reduction
9067.284959	10.66698773	263.0032757	241.9630136	2021	010000	Construction	C.1 Well Drilling	3.045936196	0.256945692	No Reduction	No Reduction
13484.46933	15.8601023	387.1571718	356.184598	2021	011000	Construction	C.1 Well Drilling	3.50508182	0.295314264	No Reduction	No Reduction
16846.89225	19.81478506	483.4676901	444.7902749	2021	012000	Construction	C.1 Well Drilling	5.755681611	0.484963161	No Reduction	No Reduction
20689.6613	24.3344225	593.5368539	546.0539056	2021	013000	Construction	C.1 Well Drilling	6.177591203	0.520535512	No Reduction	No Reduction
25493.12261	29.9839693	731.1233086	672.6334439	2021	014000	Construction	C.1 Well Drilling	2.106211664	0.177479874	No Reduction	No Reduction
31257.27618	36.76342545	896.2270543	824.5288899	2021	015000	Construction	C.1 Well Drilling	0.514893426	0.043388746	No Reduction	No Reduction
650.4930445	0.766405804	13.75387874	12.65356844	2022	001000	Construction	C.1 Well Drilling	2.742387122	0.327968626	No Reduction	No Reduction
855.7315035	1.008083983	17.82438787	16.39843684	2022	002000	Construction	C.1 Well Drilling	16.71600588	2.011934101	No Reduction	No Reduction
1060.969963	1.249762162	21.89489701	20.14330525	2022	003000	Construction	C.1 Well Drilling	14.30742306	1.728881402	No Reduction	No Reduction
1266.208422	1.491440341	25.96540614	23.88817365	2022	004000	Construction	C.1 Well Drilling	3.216745639	0.389756297	No Reduction	No Reduction
1676.68534	1.974796699	34.10642441	31.37791045	2022	005000	Construction	C.1 Well Drilling	6.868224136	0.835054481	No Reduction	No Reduction
3961.954751	4.661204512	110.3747683	101.5447868	2022	006000	Construction	C.1 Well Drilling	3.697892451	0.313199438	No Reduction	No Reduction
4747.390168	5.585171161	132.1412517	121.5699516	2022	007000	Construction	C.1 Well Drilling	2.702335876	0.228947359	No Reduction	No Reduction
5925.543293	6.971121135	164.7909768	151.6076987	2022	008000	Construction	C.1 Well Drilling	1.512710284	0.128198458	No Reduction	No Reduction
7103.696418	8.357071108	197.4407019	181.6454457	2022	009000	Construction	C.1 Well Drilling	2.659662411	0.225445372	No Reduction	No Reduction
9067.284959	10.66698773	251.8569104	231.7083575	2022	010000	Construction	C.1 Well Drilling	2.997695016	0.254154757	No Reduction	No Reduction
13484.46933	15.8601023	373.7364222	343.8375084	2022	011000	Construction	C.1 Well Drilling	3.460851618	0.293697432	No Reduction	No Reduction
16846.89225	19.81478506	466.7849399	429.4421447	2022	012000	Construction	C.1 Well Drilling	5.683363579	0.482363274	No Reduction	No Reduction
20689.6613	24.3344225	573.126103	527.2760147	2022	013000	Construction	C.1 Well Drilling	6.100221613	0.517789127	No Reduction	No Reduction
25493.12261	29.9839693	706.0525568	649.5683523	2022	014000	Construction	C.1 Well Drilling	2.079903265	0.176555932	No Reduction	No Reduction
31257.27618	36.76342545	865.5643015	796.3191573	2022	015000	Construction	C.1 Well Drilling	0.50847561	0.043165288	No Reduction	No Reduction
650.4930445	0.766405804	12.11604117	11.14675788	2023	001000	Construction	C.1 Well Drilling	2.521717908	0.314538952	No Reduction	No Reduction
855.7315035	1.008083983	15.71365812	14.45656547	2023	002000	Construction	C.1 Well Drilling	15.35265859	1.92942045	No Reduction	No Reduction
1060.969963	1.249762162	19.31127507	17.76637307	2023	003000	Construction	C.1 Well Drilling	13.1273054	1.657462194	No Reduction	No Reduction
1266.208422	1.491440341	22.90889202	21.07618066	2023	004000	Construction	C.1 Well Drilling	2.96222875	0.375201803	No Reduction	No Reduction
1676.68534	1.974796699	30.10412592	27.69579585	2023	005000	Construction	C.1 Well Drilling	6.296153964	0.800714138	No Reduction	No Reduction
3961.954751	4.661204512	106.7825202	98.23991859	2023	006000	Construction	C.1 Well Drilling	3.655247512	0.311853772	No Reduction	No Reduction
4747.390168	5.585171161	127.8743862	117.6444353	2023	007000	Construction	C.1 Well Drilling	2.671401183	0.228004545	No Reduction	No Reduction
5925.543293	6.971121135	159.5121851	146.7512103	2023	008000	Construction	C.1 Well Drilling	1.49552234	0.127693503	No Reduction	No Reduction
7103.696418	8.357071108	191.1499841	175.8579854	2023	009000	Construction	C.1 Well Drilling	2.629593478	0.224584394	No Reduction	No Reduction
9067.284959	10.66698773	243.879649	224.3692771	2023	010000	Construction	C.1 Well Drilling	2.96398984	0.253217338	No Reduction	No Reduction
13484.46933	15.8601023	363.9836776	334.8649834	2023	011000	Construction	C.1 Well Drilling	3.429508573	0.293719463	No Reduction	No Reduction

0.311804447	0.286860087	55	2020	0.0764855	0.00640453	No Reduction	No Reduction	0.00857462	0.00788865
0.174536724	0.160573789	25	2020	0.01945625	0.00162919	No Reduction	No Reduction	0.00218171	0.00200717
0.306866969	0.282317621	37	2020	0.05061926	0.00423869	No Reduction	No Reduction	0.00567704	0.00522288
0.345862489	0.318193488	33	2020	0.05087522	0.00426015	No Reduction	No Reduction	0.00570673	0.00525019
0.398635415	0.366744575	31	2020	0.05486066	0.00458003	No Reduction	No Reduction	0.00617885	0.00568454
0.654639107	0.602267969	41	2020	0.11914201	0.00994663	No Reduction	No Reduction	0.0134201	0.01234649
0.702659448	0.646446703	36	2020	0.11227768	0.00937362	No Reduction	No Reduction	0.01264787	0.01163604
0.239576803	0.220410658	10	2020	0.01063319	0.00088773	No Reduction	No Reduction	0.00119788	0.00110205
0.05856979	0.053884206	2	2020	0.00051988	4.3403E-05	No Reduction	No Reduction	5.857E-05	5.3884E-05
0.443658569	0.408165874	326	2021	0.59451093	0.06406564	No Reduction	No Reduction	0.07231635	0.06653104
2.709674683	2.49290085	1590	2021	17.6690699	1.911727	No Reduction	No Reduction	2.15419137	1.98185618
2.33191901	2.145365478	1139	2021	10.877155	1.17981087	No Reduction	No Reduction	1.32802788	1.22178564
0.525889024	0.483817951	220	2021	0.47333638	0.05142878	No Reduction	No Reduction	0.05784779	0.05321997
1.125969436	1.035891886	366	2021	1.68390137	0.18335619	No Reduction	No Reduction	0.20605241	0.18956822
0.411886292	0.378935389	89	2021	0.16729172	0.01410531	No Reduction	No Reduction	0.01832894	0.01686262
0.301082161	0.276995584	55	2021	0.075538	0.00636994	No Reduction	No Reduction	0.00827976	0.00761738
0.168587654	0.155100645	25	2021	0.0192173	0.00162078	No Reduction	No Reduction	0.00210735	0.00193876
0.296469729	0.27275216	37	2021	0.05000118	0.0042175	No Reduction	No Reduction	0.00548469	0.00504591
0.334220653	0.307482999	33	2021	0.05025795	0.0042396	No Reduction	No Reduction	0.00551464	0.00507347
0.387430006	0.356435599	31	2021	0.05432877	0.00457737	No Reduction	No Reduction	0.00600517	0.00552475
0.63631322	0.585408153	41	2021	0.11799147	0.00994174	No Reduction	No Reduction	0.01304442	0.01200087
0.683049819	0.628405844	36	2021	0.11119664	0.00936964	No Reduction	No Reduction	0.0122949	0.01131131
0.232907822	0.214275195	10	2021	0.01053106	0.0008874	No Reduction	No Reduction	0.00116454	0.00107138
0.056942727	0.052387308	2	2021	0.00051489	4.3389E-05	No Reduction	No Reduction	5.6943E-05	5.2387E-05
0.333122378	0.30647258	326	2022	0.4470091	0.05345889	No Reduction	No Reduction	0.05429895	0.04995503
2.037070703	1.874105153	1595	2022	13.3310147	1.60451745	No Reduction	No Reduction	1.62456389	1.49459886
1.747027263	1.607265073	1140	2022	8.15523114	0.9854624	No Reduction	No Reduction	0.99580554	0.91614109
0.393316707	0.361851408	220	2022	0.35384202	0.04287319	No Reduction	No Reduction	0.04326484	0.03980365
0.841234767	0.77393599	366	2022	1.25688502	0.15281497	No Reduction	No Reduction	0.15394596	0.14163029
0.393252152	0.36179198	89	2022	0.16455621	0.01393738	No Reduction	No Reduction	0.01749972	0.01609974
0.287586637	0.264579702	55	2022	0.07431424	0.00629605	No Reduction	No Reduction	0.00790863	0.00727594
0.161101775	0.148213636	25	2022	0.01890888	0.00160248	No Reduction	No Reduction	0.00201377	0.00185267
0.283388819	0.260717722	37	2022	0.04920375	0.00417074	No Reduction	No Reduction	0.00524269	0.00482328
0.319576653	0.294010519	33	2022	0.04946197	0.00419355	No Reduction	No Reduction	0.00527301	0.00485117
0.37343964	0.343564462	31	2022	0.0536432	0.00455231	No Reduction	No Reduction	0.00578831	0.00532525
0.61343616	0.564361258	41	2022	0.11650895	0.00988845	No Reduction	No Reduction	0.01257544	0.01156941
0.658573005	0.605887175	36	2022	0.10980399	0.0093202	No Reduction	No Reduction	0.01185431	0.01090597
0.224584366	0.206617616	10	2022	0.01039952	0.00088278	No Reduction	No Reduction	0.00112292	0.00103309
0.054912168	0.050519194	2	2022	0.00050848	4.3165E-05	No Reduction	No Reduction	5.4912E-05	5.0519E-05
0.293913497	0.270400411	327	2023	0.41230088	0.05142712	No Reduction	No Reduction	0.04805486	0.04421047
1.796531708	1.652809266	1598	2023	12.2667742	1.54160694	No Reduction	No Reduction	1.43542884	1.3205946
1.539921347	1.416727632	1141	2023	7.48912773	0.94558218	No Reduction	No Reduction	0.87852513	0.80824311
0.348073511	0.320227662	221	2023	0.32732628	0.0414598	No Reduction	No Reduction	0.03846212	0.03538516
0.741407652	0.682095043	366	2023	1.15219618	0.14653069	No Reduction	No Reduction	0.1356776	0.12482339
0.379884427	0.349493673	89	2023	0.16265851	0.01387749	No Reduction	No Reduction	0.01690486	0.01555247
0.277884209	0.255653468	55	2023	0.07346353	0.00627012	No Reduction	No Reduction	0.00764182	0.00703047
0.155707948	0.143251315	25	2023	0.01869403	0.00159617	No Reduction	No Reduction	0.00194635	0.00179064
0.273949373	0.252033432	37	2023	0.04864748	0.00415481	No Reduction	No Reduction	0.00506806	0.00466262
0.308991658	0.284272324	33	2023	0.04890583	0.00417809	No Reduction	No Reduction	0.00509836	0.00469049
0.363150729	0.334098665	31	2023	0.05315738	0.00455265	No Reduction	No Reduction	0.00562884	0.00517853

0.091464654	55	0.001662994	11.5977181	2020
0.023267154	25	0.000930686	6.490605147	2020
0.060534986	37	0.001636081	11.41002675	2020
0.060842101	33	0.0018437	12.85796402	2020
0.065619539	31	0.002116759	14.76227942	2020
0.142508744	41	0.003475823	24.24038977	2020
0.134299166	36	0.003730532	26.01673295	2020
0.012718797	10	0.00127188	8.870089033	2020
0.00062185	2	0.000310925	2.168389315	2020
0.73089292	326	0.002242003	15.63572769	2021
21.73498831	1590	0.013669804	95.33321286	2021
13.38499376	1139	0.011751531	81.9551769	2021
0.582612949	220	0.002648241	18.46883048	2021
2.073309967	366	0.005664781	39.506185	2021
0.199725968	89	0.002244112	15.65043706	2021
0.090187704	55	0.001639776	11.4358009	2021
0.02294543	25	0.000917817	6.400857226	2021
0.059703363	37	0.001613604	11.25327707	2021
0.060012192	33	0.001818551	12.68257656	2021
0.064911304	31	0.002093913	14.60294958	2021
0.140977639	41	0.003438479	23.97995252	2021
0.132861178	36	0.003690588	25.73816257	2021
0.012582997	10	0.0012583	8.775381969	2021
0.000615225	2	0.000307612	2.14528922	2021
0.554766934	326	0.001701739	11.86792822	2022
16.56009602	1595	0.010382505	72.40759227	2022
10.13649908	1140	0.008891666	62.01047771	2022
0.439980051	220	0.001999909	13.94736761	2022
1.563645949	366	0.004272257	29.79471817	2022
0.19599331	89	0.002202172	15.35794767	2022
0.088518921	55	0.001609435	11.22419924	2022
0.022525131	25	0.000901005	6.28361067	2022
0.058617187	37	0.001584248	11.04854765	2022
0.058928536	33	0.001785713	12.45356395	2022
0.063983825	31	0.002063994	14.39429656	2022
0.138972842	41	0.003389582	23.63894143	2022
0.130978507	36	0.003638292	25.37344752	2022
0.012405218	10	0.001240522	8.651398905	2022
0.000606553	2	0.000303277	2.115050542	2022
0.511782854	327	0.001565085	10.91490404	2023
15.24380999	1598	0.009539305	66.52711569	2023
9.31323504	1141	0.008162344	56.92419034	2023
0.407248199	221	0.001842752	12.85135267	2023
1.434404463	366	0.003919138	27.33206755	2023
0.193440864	89	0.002173493	15.15793917	2023
0.087375473	55	0.001588645	11.07921001	2023
0.022236547	25	0.000889462	6.203107258	2023
0.057870354	37	0.001564064	10.90777971	2023
0.058182281	33	0.001763099	12.29585534	2023
0.063338871	31	0.002043189	14.24920276	2023

	12000	0.03%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2023	012000	Construction	C.1 Well Drilling	16829.07493	760.1068205
	13000	0.03%	0.06%	No Reduct	No Reduct	0.11%	0.11%	2023	013000	Construction	C.1 Well Drilling	20669.86753	933.4091991
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2023	014000	Construction	C.1 Well Drilling	25470.85828	1150.037172
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%	2023	015000	Construction	C.1 Well Drilling	31232.04718	1409.99074
	1000	0.80%	1.27%	No Reduct	No Reduct	2.42%	2.42%	2024	001000	Construction	C.1 Well Drilling	279.1916833	23.5733669
	2000	3.74%	5.97%	No Reduct	No Reduct	11.42%	11.42%	2024	002000	Construction	C.1 Well Drilling	364.3215201	30.8390318
	3000	2.59%	4.16%	No Reduct	No Reduct	7.97%	7.97%	2024	003000	Construction	C.1 Well Drilling	449.451357	38.1046967
	4000	0.49%	0.79%	No Reduct	No Reduct	1.52%	1.52%	2024	004000	Construction	C.1 Well Drilling	534.5811938	45.3703616
	5000	0.80%	1.28%	No Reduct	No Reduct	2.47%	2.47%	2024	005000	Construction	C.1 Well Drilling	704.8408675	59.9016914
	6000	0.10%	0.18%	No Reduct	No Reduct	0.36%	0.36%	2024	006000	Construction	C.1 Well Drilling	3872.359814	180.2189412
	7000	0.06%	0.11%	No Reduct	No Reduct	0.22%	0.22%	2024	007000	Construction	C.1 Well Drilling	4642.071342	215.9074549
2024	8000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2024	008000	Construction	C.1 Well Drilling	5796.638635	269.4402256
	9000	0.04%	0.07%	No Reduct	No Reduct	0.14%	0.14%	2024	009000	Construction	C.1 Well Drilling	6951.205927	322.9729963
	10000	0.03%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2024	010000	Construction	C.1 Well Drilling	8875.484748	412.1942808
	11000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2024	011000	Construction	C.1 Well Drilling	13456.8761	615.976267
	12000	0.03%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2024	012000	Construction	C.1 Well Drilling	16815.14459	769.5262407
	13000	0.03%	0.06%	No Reduct	No Reduct	0.11%	0.11%	2024	013000	Construction	C.1 Well Drilling	20653.16571	945.0119249
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2024	014000	Construction	C.1 Well Drilling	25450.69211	1164.36903
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%	2024	015000	Construction	C.1 Well Drilling	31207.7238	1427.597556
	1000	0.80%	1.27%	No Reduct	No Reduct	2.43%	2.43%	2025	001000	Construction	C.1 Well Drilling	259.2889181	22.75828312
	2000	3.74%	5.97%	No Reduct	No Reduct	11.42%	11.42%	2025	002000	Construction	C.1 Well Drilling	338.491929	29.80596118
	3000	2.59%	4.16%	No Reduct	No Reduct	7.97%	7.97%	2025	003000	Construction	C.1 Well Drilling	417.6949398	36.85363923
	4000	0.49%	0.79%	No Reduct	No Reduct	1.51%	1.51%	2025	004000	Construction	C.1 Well Drilling	496.8979507	43.90131728
	5000	0.79%	1.28%	No Reduct	No Reduct	2.47%	2.47%	2025	005000	Construction	C.1 Well Drilling	655.3039724	57.99667339
	6000	0.10%	0.18%	No Reduct	No Reduct	0.36%	0.36%	2025	006000	Construction	C.1 Well Drilling	3854.5428	181.183546
	7000	0.06%	0.11%	No Reduct	No Reduct	0.22%	0.22%	2025	007000	Construction	C.1 Well Drilling	4621.115383	217.0972054
2025	8000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2025	008000	Construction	C.1 Well Drilling	5770.974257	270.9676945
	9000	0.04%	0.07%	No Reduct	No Reduct	0.14%	0.14%	2025	009000	Construction	C.1 Well Drilling	6920.833131	324.8381836
	10000	0.03%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2025	010000	Construction	C.1 Well Drilling	8837.264589	414.6223321
	11000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2025	011000	Construction	C.1 Well Drilling	13418.10925	621.1381394
	12000	0.03%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2025	012000	Construction	C.1 Well Drilling	16767.21659	776.018862
	13000	0.03%	0.06%	No Reduct	No Reduct	0.11%	0.11%	2025	013000	Construction	C.1 Well Drilling	20594.76783	953.0254021
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2025	014000	Construction	C.1 Well Drilling	25379.20689	1174.283577
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%	2025	015000	Construction	C.1 Well Drilling	31120.53376	1439.793387
	1000	0.80%	1.27%	No Reduct	No Reduct	2.42%	2.42%	2026	001000	Construction	C.1 Well Drilling	248.7099637	22.54780152
	2000	3.74%	5.97%	No Reduct	No Reduct	11.42%	11.42%	2026	002000	Construction	C.1 Well Drilling	324.8772241	29.55905691
	3000	2.59%	4.16%	No Reduct	No Reduct	7.97%	7.97%	2026	003000	Construction	C.1 Well Drilling	401.0444845	36.5703123
	4000	0.49%	0.79%	No Reduct	No Reduct	1.52%	1.52%	2026	004000	Construction	C.1 Well Drilling	477.2117449	43.58156769
	5000	0.79%	1.28%	No Reduct	No Reduct	2.47%	2.47%	2026	005000	Construction	C.1 Well Drilling	629.5462656	57.60407848
	6000	0.10%	0.18%	No Reduct	No Reduct	0.36%	0.36%	2026	006000	Construction	C.1 Well Drilling	2751.246266	132.6260497
	7000	0.06%	0.11%	No Reduct	No Reduct	0.22%	0.22%	2026	007000	Construction	C.1 Well Drilling	3297.453882	158.8484526
2026	8000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2026	008000	Construction	C.1 Well Drilling	4116.765307	198.1820569
	9000	0.04%	0.07%	No Reduct	No Reduct	0.14%	0.14%	2026	009000	Construction	C.1 Well Drilling	4936.076732	237.5156612
	10000	0.03%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2026	010000	Construction	C.1 Well Drilling	6301.595774	303.0716684
	11000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2026	011000	Construction	C.1 Well Drilling	9527.043073	450.2183429
	12000	0.03%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2026	012000	Construction	C.1 Well Drilling	11903.7518	562.3944198
	13000	0.03%	0.06%	No Reduct	No Reduct	0.12%	0.12%	2026	013000	Construction	C.1 Well Drilling	14619.99034	690.5956505
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2026	014000	Construction	C.1 Well Drilling	18015.28851	850.8471889
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%	2026	015000	Construction	C.1 Well Drilling	22089.64632	1043.149035
	1000	0.80%	1.27%	No Reduct	No Reduct	2.43%	2.43%	2027	001000	Construction	C.1 Well Drilling	237.4394104	22.28579071

16846.89225	19.81478506	454.6487994	418.2768955	2023	012000	Construction	C.1 Well Drilling	5.632065252	0.482431315	No Reduction	No Reduction
20689.6613	24.3344225	558.2660815	513.604795	2023	013000	Construction	C.1 Well Drilling	6.045298827	0.517887645	No Reduction	No Reduction
25493.12261	29.9839693	687.7876841	632.7646694	2023	014000	Construction	C.1 Well Drilling	2.061215944	0.176596703	No Reduction	No Reduction
31257.27618	36.76342545	843.2136073	775.7565187	2023	015000	Construction	C.1 Well Drilling	0.503914658	0.04317665	No Reduction	No Reduction
650.4930445	0.766405804	10.7065109	9.849990027	2024	001000	Construction	C.1 Well Drilling	2.239414231	0.300028181	No Reduction	No Reduction
855.7315035	1.008083983	13.88905201	12.77792785	2024	002000	Construction	C.1 Well Drilling	13.62966223	1.842501296	No Reduction	No Reduction
1060.969963	1.249762162	17.07159313	15.70586568	2024	003000	Construction	C.1 Well Drilling	11.65017735	1.58369115	No Reduction	No Reduction
1266.208422	1.491440341	20.25413424	18.6338035	2024	004000	Construction	C.1 Well Drilling	2.625563483	0.358265157	No Reduction	No Reduction
1676.68534	1.974796699	26.61921647	24.48967915	2024	005000	Construction	C.1 Well Drilling	5.608232831	0.768957895	No Reduction	No Reduction
3961.954751	4.661204512	105.3744057	96.94445324	2024	006000	Construction	C.1 Well Drilling	3.723572822	0.321525972	No Reduction	No Reduction
4747.390168	5.585171161	126.2175093	116.1201086	2024	007000	Construction	C.1 Well Drilling	2.661727	0.22994188	No Reduction	No Reduction
5925.543293	6.971121135	157.4821648	144.8835916	2024	008000	Construction	C.1 Well Drilling	1.490218981	0.128796625	No Reduction	No Reduction
7103.696418	8.357071108	188.7468202	173.6470746	2024	009000	Construction	C.1 Well Drilling	2.620400651	0.226545852	No Reduction	No Reduction
9067.284959	10.66698773	240.8545793	221.5862129	2024	010000	Construction	C.1 Well Drilling	2.95379012	0.25545505	No Reduction	No Reduction
13484.46933	15.8601023	360.6164814	331.7671629	2024	011000	Construction	C.1 Well Drilling	3.421462089	0.296900205	No Reduction	No Reduction
16846.89225	19.81478506	450.4808799	414.4424095	2024	012000	Construction	C.1 Well Drilling	5.618999994	0.487680383	No Reduction	No Reduction
20689.6613	24.3344225	553.1830496	508.9284056	2024	013000	Construction	C.1 Well Drilling	6.031394028	0.523542273	No Reduction	No Reduction
25493.12261	29.9839693	681.5607616	627.0359007	2024	014000	Construction	C.1 Well Drilling	2.056508471	0.178530471	No Reduction	No Reduction
31257.27618	36.76342545	835.6140162	768.7648949	2024	015000	Construction	C.1 Well Drilling	0.502770312	0.043650525	No Reduction	No Reduction
650.4930445	0.766405804	9.567177173	8.801802999	2025	001000	Construction	C.1 Well Drilling	2.083022512	0.290106848	No Reduction	No Reduction
855.7315035	1.008083983	12.43192262	11.43736881	2025	002000	Construction	C.1 Well Drilling	12.66028301	1.780348517	No Reduction	No Reduction
1060.969963	1.249762162	15.29666807	14.07293462	2025	003000	Construction	C.1 Well Drilling	10.82981245	1.532089872	No Reduction	No Reduction
1266.208422	1.491440341	18.16141351	16.70850043	2025	004000	Construction	C.1 Well Drilling	2.4368456	0.346148014	No Reduction	No Reduction
1676.68534	1.974796699	23.8909044	21.97963205	2025	005000	Construction	C.1 Well Drilling	5.206306351	0.743393089	No Reduction	No Reduction
3961.954751	4.661204512	103.286051	95.02316693	2025	006000	Construction	C.1 Well Drilling	3.700913886	0.322764931	No Reduction	No Reduction
4747.390168	5.585171161	123.7486731	113.8487792	2025	007000	Construction	C.1 Well Drilling	2.693864888	0.235061753	No Reduction	No Reduction
5925.543293	6.971121135	154.4426061	142.0871976	2025	008000	Construction	C.1 Well Drilling	1.481408939	0.129333648	No Reduction	No Reduction
7103.696418	8.357071108	185.1365392	170.325616	2025	009000	Construction	C.1 Well Drilling	2.605060912	0.227514424	No Reduction	No Reduction
9067.284959	10.66698773	236.2930943	217.3896467	2025	010000	Construction	C.1 Well Drilling	2.936685033	0.25657668	No Reduction	No Reduction
13484.46933	15.8601023	355.2807659	326.8583046	2025	011000	Construction	C.1 Well Drilling	3.406518581	0.29894182	No Reduction	No Reduction
16846.89225	19.81478506	443.8577221	408.3491044	2025	012000	Construction	C.1 Well Drilling	5.594629877	0.491061731	No Reduction	No Reduction
20689.6613	24.3344225	545.0885293	501.481447	2025	013000	Construction	C.1 Well Drilling	6.005372251	0.527194538	No Reduction	No Reduction
25493.12261	29.9839693	671.6270382	617.8968752	2025	014000	Construction	C.1 Well Drilling	2.047674453	0.179782184	No Reduction	No Reduction
31257.27618	36.76342545	823.473249	757.5953891	2025	015000	Construction	C.1 Well Drilling	0.500618078	0.043957786	No Reduction	No Reduction
650.4930445	0.766405804	8.829692143	8.123316771	2026	001000	Construction	C.1 Well Drilling	1.99506072	0.286995848	No Reduction	No Reduction
855.7315035	1.008083983	11.49217578	10.57280172	2026	002000	Construction	C.1 Well Drilling	12.14813133	1.76517426	No Reduction	No Reduction
1060.969963	1.249762162	14.15465942	13.02228666	2026	003000	Construction	C.1 Well Drilling	10.40077709	1.520701764	No Reduction	No Reduction
1266.208422	1.491440341	16.81714305	15.47177161	2026	004000	Construction	C.1 Well Drilling	2.347391662	0.344667844	No Reduction	No Reduction
1676.68534	1.974796699	22.14211033	20.3707415	2026	005000	Construction	C.1 Well Drilling	4.994218014	0.737261566	No Reduction	No Reduction
3961.954751	4.661204512	61.34753113	56.43972864	2026	006000	Construction	C.1 Well Drilling	2.637658094	0.235911628	No Reduction	No Reduction
4747.390168	5.585171161	73.44858911	67.57270198	2026	007000	Construction	C.1 Well Drilling	1.919378623	0.171736913	No Reduction	No Reduction
5925.543293	6.971121135	91.60017608	84.27216199	2026	008000	Construction	C.1 Well Drilling	1.055200185	0.094452024	No Reduction	No Reduction
7103.696418	8.357071108	109.751763	100.971622	2026	009000	Construction	C.1 Well Drilling	1.855215366	0.166106657	No Reduction	No Reduction
9067.284959	10.66698773	140.004408	128.8040554	2026	010000	Construction	C.1 Well Drilling	2.09094678	0.187267648	No Reduction	No Reduction
13484.46933	15.8601023	208.1908107	191.5355459	2026	011000	Construction	C.1 Well Drilling	2.415074283	0.216358812	No Reduction	No Reduction
16846.89225	19.81478506	260.0279531	239.2257169	2026	012000	Construction	C.1 Well Drilling	3.965949454	0.355351163	No Reduction	No Reduction
20689.6613	24.3344225	319.2704015	293.7287694	2026	013000	Construction	C.1 Well Drilling	4.37504241	0.392050863	No Reduction	No Reduction
25493.12261	29.9839693	393.3234621	361.8575851	2026	014000	Construction	C.1 Well Drilling	1.451366229	0.130070305	No Reduction	No Reduction
31257.27618	36.76342545	482.1871347	443.6121639	2026	015000	Construction	C.1 Well Drilling	0.354814353	0.031800571	No Reduction	No Reduction
650.4930445	0.766405804	8.101693118	7.453557668	2027	001000	Construction	C.1 Well Drilling	1.907619187	0.284102726	No Reduction	No Reduction

0.596593622	0.548866123	41	2023	0.11545734	0.00988984	No Reduction	No Reduction	0.01223017	0.01125176
0.640538147	0.589295106	36	2023	0.10881538	0.00932198	No Reduction	No Reduction	0.01152969	0.01060731
0.218447413	0.200971619	10	2023	0.01030608	0.00088298	No Reduction	No Reduction	0.00109224	0.00100486
0.053414219	0.049141081	2	2023	0.00050391	4.3177E-05	No Reduction	No Reduction	5.3414E-05	4.9141E-05
0.259332977	0.238586333	327	2024	0.36614423	0.04905461	No Reduction	No Reduction	0.04240094	0.03900887
1.586546743	1.459623086	1599	2024	10.8969149	1.47307979	No Reduction	No Reduction	1.26844412	1.16696866
1.360482915	1.251644276	1142	2024	6.65225127	0.90428765	No Reduction	No Reduction	0.77683574	0.71468888
0.307278068	0.282695852	221	2024	0.29012476	0.0395883	No Reduction	No Reduction	0.03395423	0.03123789
0.65817902	0.605524702	368	2024	1.03191484	0.14148825	No Reduction	No Reduction	0.12110494	0.11141655
0.382726769	0.352108628	91	2024	0.16942256	0.01462943	No Reduction	No Reduction	0.01741407	0.01602094
0.273874063	0.251964133	55	2024	0.07319749	0.0063234	No Reduction	No Reduction	0.00753154	0.00692901
0.153496786	0.141217046	25	2024	0.01862774	0.00160996	No Reduction	No Reduction	0.00191871	0.00176521
0.270101304	0.248493208	37	2024	0.04847741	0.0041911	No Reduction	No Reduction	0.00499687	0.00459712
0.304703255	0.280326993	33	2024	0.04873754	0.00421501	No Reduction	No Reduction	0.0050276	0.0046254
0.35925397	0.330513646	31	2024	0.05303266	0.00460195	No Reduction	No Reduction	0.00556844	0.00512296
0.590241731	0.543022384	41	2024	0.1151895	0.00999745	No Reduction	No Reduction	0.01209996	0.01113196
0.633758231	0.583057583	36	2024	0.10856509	0.00942376	No Reduction	No Reduction	0.01140765	0.01049504
0.216146438	0.198854722	10	2024	0.01028254	0.00089265	No Reduction	No Reduction	0.00108073	0.00099427
0.052853772	0.04862547	2	2024	0.00050277	4.3651E-05	No Reduction	No Reduction	5.2854E-05	4.8625E-05
0.232098135	0.213530279	328	2025	0.34161569	0.04757752	No Reduction	No Reduction	0.03806409	0.03501897
1.419754959	1.306174636	1601	2025	10.1345566	1.42516899	No Reduction	No Reduction	1.13651384	1.0455928
1.219348264	1.121800397	1144	2025	6.19465272	0.87635541	No Reduction	No Reduction	0.69746721	0.64166983
0.275118305	0.253108866	221	2025	0.26927144	0.03824936	No Reduction	No Reduction	0.03040057	0.02796853
0.589838774	0.542651674	368	2025	0.95796037	0.13678433	No Reduction	No Reduction	0.10853033	0.09984791
0.374582371	0.344615782	91	2025	0.16839158	0.0146858	No Reduction	No Reduction	0.0170435	0.01568002
0.272991514	0.251152189	56	2025	0.07542822	0.00658173	No Reduction	No Reduction	0.00764376	0.00703226
0.150309694	0.138284922	25	2025	0.01851761	0.00161667	No Reduction	No Reduction	0.00187887	0.00172856
0.264539872	0.24337669	37	2025	0.04819363	0.00420902	No Reduction	No Reduction	0.00489399	0.00450247
0.298486831	0.274607883	33	2025	0.0484553	0.00423352	No Reduction	No Reduction	0.00492503	0.00453103
0.353410673	0.325137813	31	2025	0.05280104	0.0046336	No Reduction	No Reduction	0.00547787	0.00503964
0.580696609	0.534240871	41	2025	0.11468991	0.01006677	No Reduction	No Reduction	0.01190428	0.01095194
0.623553544	0.573669271	36	2025	0.1080967	0.0094895	No Reduction	No Reduction	0.01122396	0.01032605
0.212678523	0.19566424	10	2025	0.01023837	0.00089891	No Reduction	No Reduction	0.00106339	0.00097832
0.052008188	0.047847533	2	2025	0.00050062	4.3958E-05	No Reduction	No Reduction	5.2008E-05	4.7848E-05
0.213887951	0.19677691	328	2026	0.32718996	0.04706732	No Reduction	No Reduction	0.03507762	0.03227141
1.312116729	1.207147459	1603	2026	9.73672726	1.41478717	No Reduction	No Reduction	1.05166156	0.96752869
1.128604727	1.038316343	1146	2026	5.95964527	0.87136211	No Reduction	No Reduction	0.64669051	0.59495526
0.255526347	0.235084263	222	2026	0.26056047	0.03825813	No Reduction	No Reduction	0.02836342	0.02609435
0.545849182	0.50218125	368	2026	0.91893611	0.13565613	No Reduction	No Reduction	0.10043625	0.09240135
0.222154788	0.204382405	91	2026	0.12001344	0.01073398	No Reduction	No Reduction	0.01010804	0.0092994
0.161787506	0.148844503	56	2026	0.0537426	0.00480863	No Reduction	No Reduction	0.00453005	0.00416765
0.089016211	0.081894916	25	2026	0.01319	0.00118065	No Reduction	No Reduction	0.0011127	0.00102369
0.156589785	0.144062607	37	2026	0.03432148	0.00307297	No Reduction	No Reduction	0.00289691	0.00266516
0.176591087	0.1624638	33	2026	0.03450062	0.00308992	No Reduction	No Reduction	0.00291375	0.00268065
0.206786626	0.190243692	31	2026	0.03743365	0.00335356	No Reduction	No Reduction	0.00320519	0.00294878
0.339686645	0.312511709	41	2026	0.08130196	0.0072847	No Reduction	No Reduction	0.00696358	0.00640649
0.374815478	0.344830246	37	2026	0.08093828	0.00725294	No Reduction	No Reduction	0.00693409	0.00637936
0.12436502	0.114415818	10	2026	0.00725683	0.00065035	No Reduction	No Reduction	0.00062183	0.00057208
0.030408204	0.027975548	2	2026	0.00035481	3.1801E-05	No Reduction	No Reduction	3.0408E-05	2.7976E-05
0.196558799	0.180834091	329	2027	0.31380336	0.0467349	No Reduction	No Reduction	0.03233392	0.02974721

0.137577349	41	0.003355545	23.40157149	2023
0.129667043	36	0.003601862	25.11938775	2023
0.0122813	10	0.00122813	8.564978829	2023
0.000600506	2	0.000300253	2.093962773	2023
0.457599776	327	0.001399388	9.759329783	2024
13.63843886	1599	0.008529355	59.4837227	2024
8.33337466	1142	0.007297176	50.89050339	2024
0.363667291	221	0.001645553	11.47608909	2024
1.294508033	368	0.003517685	24.53233431	2024
0.201466063	91	0.002213913	15.43982774	2024
0.087052431	55	0.001582771	11.03824824	2024
0.022156405	25	0.000886256	6.180750709	2024
0.057665384	37	0.001558524	10.8691457	2024
0.057980149	33	0.001756974	12.25313816	2024
0.063203052	31	0.002038808	14.21864791	2024
0.137286903	41	0.003348461	23.35216739	2024
0.129396502	36	0.003594347	25.06697784	2024
0.012255927	10	0.001225593	8.547283419	2024
0.000599275	2	0.000299637	2.089670559	2024
0.427257309	328	0.001302614	9.084428276	2025
12.69623938	1601	0.007930193	55.30516768	2025
7.768475337	1144	0.006790625	47.3578208	2025
0.337921367	221	0.001529056	10.66363626	2025
1.203275031	368	0.003269769	22.80336975	2025
0.200120884	91	0.002199131	15.33673676	2025
0.089653708	56	0.001600959	11.1650886	2025
0.022013154	25	0.000880526	6.140789304	2025
0.057296631	37	0.001548558	10.79964073	2025
0.057613851	33	0.001745874	12.17572717	2025
0.062912502	31	0.002029436	14.15328343	2025
0.136660958	41	0.003333194	23.24569571	2025
0.128810166	36	0.00357806	24.9533916	2025
0.012200676	10	0.001220068	8.508751303	2025
0.000596584	2	0.000298292	2.080288591	2025
0.409334901	328	0.001247972	8.70335854	2026
12.20317599	1603	0.007612711	53.09104763	2026
7.477697892	1146	0.006525042	45.50564145	2026
0.32718203	222	0.001473793	10.27823187	2026
1.155028492	368	0.003138664	21.8890454	2026
0.140855465	91	0.001547862	10.79479136	2026
0.063081285	56	0.001126452	7.855872905	2026
0.015483355	25	0.000619334	4.319236781	2026
0.040291368	37	0.001088956	7.594378475	2026
0.040504291	33	0.001227403	8.559906833	2026
0.043992406	31	0.00141911	9.896872167	2026
0.095550239	41	0.002330494	16.25286258	2026
0.095125312	37	0.002570954	17.92983581	2026
0.008529008	10	0.000852901	5.948130018	2026
0.000417023	2	0.000208512	1.45415965	2026
0.392872177	329	0.00119414	8.327934843	2027

	2000	3.74%	5.97%	No Reduct	No Reduct	11.41%	11.41%	2027	002000	Construction	C.1 Well Drilling	310.3226543	29.23918253
	3000	2.59%	4.16%	No Reduct	No Reduct	7.98%	7.98%	2027	003000	Construction	C.1 Well Drilling	383.2058981	36.19257436
	4000	0.49%	0.79%	No Reduct	No Reduct	1.52%	1.52%	2027	004000	Construction	C.1 Well Drilling	456.089142	43.14596618
	5000	0.79%	1.28%	No Reduct	No Reduct	2.47%	2.47%	2027	005000	Construction	C.1 Well Drilling	601.8556298	57.05274983
	6000	0.10%	0.18%	No Reduct	No Reduct	0.36%	0.36%	2027	006000	Construction	C.1 Well Drilling	2732.765427	134.013557
	7000	0.06%	0.11%	No Reduct	No Reduct	0.22%	0.22%	2027	007000	Construction	C.1 Well Drilling	3275.560577	160.5311453
2027	8000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2027	008000	Construction	C.1 Well Drilling	4089.753302	200.3075278
	9000	0.04%	0.07%	No Reduct	No Reduct	0.15%	0.15%	2027	009000	Construction	C.1 Well Drilling	4903.946026	240.0839103
	10000	0.03%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2027	010000	Construction	C.1 Well Drilling	6260.9339	306.3778812
	11000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2027	011000	Construction	C.1 Well Drilling	9482.797117	456.3735298
	12000	0.03%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2027	012000	Construction	C.1 Well Drilling	11848.79898	570.1105084
	13000	0.03%	0.06%	No Reduct	No Reduct	0.12%	0.12%	2027	013000	Construction	C.1 Well Drilling	14552.8011	700.0956269
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2027	014000	Construction	C.1 Well Drilling	17932.80376	862.5770249
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%	2027	015000	Construction	C.1 Well Drilling	21988.80695	1057.554703
	1000	0.80%	1.27%	No Reduct	No Reduct	2.42%	2.42%	2028	001000	Construction	C.1 Well Drilling	220.3047946	21.91287962
	2000	3.74%	5.97%	No Reduct	No Reduct	11.42%	11.42%	2028	002000	Construction	C.1 Well Drilling	287.738463	28.7537402
	3000	2.59%	4.16%	No Reduct	No Reduct	7.98%	7.98%	2028	003000	Construction	C.1 Well Drilling	355.1721314	35.59460077
	4000	0.49%	0.79%	No Reduct	No Reduct	1.51%	1.51%	2028	004000	Construction	C.1 Well Drilling	422.6057999	42.43546135
	5000	0.79%	1.28%	No Reduct	No Reduct	2.46%	2.46%	2028	005000	Construction	C.1 Well Drilling	557.4731368	56.11718251
	6000	0.10%	0.18%	No Reduct	No Reduct	0.36%	0.36%	2028	006000	Construction	C.1 Well Drilling	2729.804588	136.2304136
	7000	0.06%	0.11%	No Reduct	No Reduct	0.22%	0.22%	2028	007000	Construction	C.1 Well Drilling	3272.164748	163.1984367
2028	8000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2028	008000	Construction	C.1 Well Drilling	4085.704988	203.6504715
	9000	0.04%	0.07%	No Reduct	No Reduct	0.15%	0.15%	2028	009000	Construction	C.1 Well Drilling	4899.245228	244.1025062
	10000	0.03%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2028	010000	Construction	C.1 Well Drilling	6255.145627	311.522564
	11000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2028	011000	Construction	C.1 Well Drilling	9482.668135	464.5924702
	12000	0.03%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2028	012000	Construction	C.1 Well Drilling	11848.83422	580.3930133
	13000	0.03%	0.06%	No Reduct	No Reduct	0.12%	0.12%	2028	013000	Construction	C.1 Well Drilling	14553.02403	712.7364911
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2028	014000	Construction	C.1 Well Drilling	17933.2613	878.1658384
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%	2028	015000	Construction	C.1 Well Drilling	21989.54602	1076.681055
	1000	0.80%	1.27%	No Reduct	No Reduct	2.43%	2.43%	2029	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	3.74%	5.97%	No Reduct	No Reduct	11.42%	11.42%	2029	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	2.60%	4.16%	No Reduct	No Reduct	7.98%	7.98%	2029	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.49%	0.79%	No Reduct	No Reduct	1.51%	1.51%	2029	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	0.79%	1.28%	No Reduct	No Reduct	2.47%	2.47%	2029	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.10%	0.18%	No Reduct	No Reduct	0.36%	0.36%	2029	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.06%	0.11%	No Reduct	No Reduct	0.22%	0.22%	2029	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2029	8000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2029	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.04%	0.07%	No Reduct	No Reduct	0.15%	0.15%	2029	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.03%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2029	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2029	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.03%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2029	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.03%	0.06%	No Reduct	No Reduct	0.12%	0.12%	2029	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2029	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%	2029	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	0.80%	1.27%	No Reduct	No Reduct	2.42%	2.42%	2030	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	3.74%	5.97%	No Reduct	No Reduct	11.42%	11.42%	2030	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	2.59%	4.16%	No Reduct	No Reduct	7.97%	7.97%	2030	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.49%	0.79%	No Reduct	No Reduct	1.52%	1.52%	2030	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	0.80%	1.28%	No Reduct	No Reduct	2.47%	2.47%	2030	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.10%	0.18%	No Reduct	No Reduct	0.36%	0.36%	2030	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451

855.7315035	1.008083983	10.56198754	9.71702854	2027	002000	Construction	C.1 Well Drilling	11.59386994	1.744564251	No Reduction	No Reduction
1060.969963	1.249762162	13.02228197	11.98049941	2027	003000	Construction	C.1 Well Drilling	9.940691239	1.50537956	No Reduction	No Reduction
1266.208422	1.491440341	15.48257639	14.24397028	2027	004000	Construction	C.1 Well Drilling	2.240154932	0.340715591	No Reduction	No Reduction
1676.68534	1.974796699	20.40316524	18.77091203	2027	005000	Construction	C.1 Well Drilling	4.780404076	0.731101001	No Reduction	No Reduction
3961.954751	4.661204512	59.61227168	54.84328995	2027	006000	Construction	C.1 Well Drilling	2.616045401	0.238025308	No Reduction	No Reduction
4747.390168	5.585171161	71.39056405	65.67931893	2027	007000	Construction	C.1 Well Drilling	1.903800547	0.173298122	No Reduction	No Reduction
5925.543293	6.971121135	89.05800261	81.9333624	2027	008000	Construction	C.1 Well Drilling	1.046718139	0.095323086	No Reduction	No Reduction
7103.696418	8.357071108	106.7254412	98.18740587	2027	009000	Construction	C.1 Well Drilling	1.890139565	0.172184322	No Reduction	No Reduction
9067.284959	10.66698773	136.1711721	125.2774783	2027	010000	Construction	C.1 Well Drilling	2.074366285	0.189029121	No Reduction	No Reduction
13484.46933	15.8601023	203.5993388	187.3113917	2027	011000	Construction	C.1 Well Drilling	2.400284453	0.218990734	No Reduction	No Reduction
16846.89225	19.81478506	254.3189711	233.9734534	2027	012000	Construction	C.1 Well Drilling	3.941772288	0.359691085	No Reduction	No Reduction
20689.6613	24.3344225	312.2842651	287.3015239	2027	013000	Construction	C.1 Well Drilling	4.348461847	0.396853147	No Reduction	No Reduction
25493.12261	29.9839693	384.7408826	353.961612	2027	014000	Construction	C.1 Well Drilling	1.442573256	0.131667432	No Reduction	No Reduction
31257.27618	36.76342545	471.6888236	433.9537177	2027	015000	Construction	C.1 Well Drilling	0.352669557	0.032191802	No Reduction	No Reduction
650.4930445	0.766405804	7.431979033	6.83742071	2028	001000	Construction	C.1 Well Drilling	1.7673301	0.278934129	No Reduction	No Reduction
855.7315035	1.008083983	9.688992596	8.913873189	2028	002000	Construction	C.1 Well Drilling	10.76091971	1.717325488	No Reduction	No Reduction
1060.969963	1.249762162	11.94600616	10.99032567	2028	003000	Construction	C.1 Well Drilling	9.215822086	1.480885452	No Reduction	No Reduction
1266.208422	1.491440341	14.20301972	13.06677815	2028	004000	Construction	C.1 Well Drilling	2.072614938	0.334607433	No Reduction	No Reduction
1676.68534	1.974796699	18.71704685	17.2196831	2028	005000	Construction	C.1 Well Drilling	4.421311092	0.718044738	No Reduction	No Reduction
3961.954751	4.661204512	58.97986828	54.26147881	2028	006000	Construction	C.1 Well Drilling	2.609331937	0.241603557	No Reduction	No Reduction
4747.390168	5.585171161	70.64365426	64.99216192	2028	007000	Construction	C.1 Well Drilling	1.899003747	0.175916022	No Reduction	No Reduction
5925.543293	6.971121135	88.13933324	81.08818658	2028	008000	Construction	C.1 Well Drilling	1.044129802	0.096770078	No Reduction	No Reduction
7103.696418	8.357071108	105.6350122	97.18421124	2028	009000	Construction	C.1 Well Drilling	1.885524666	0.174806523	No Reduction	No Reduction
9067.284959	10.66698773	134.7944772	124.010919	2028	010000	Construction	C.1 Well Drilling	2.069372149	0.19191798	No Reduction	No Reduction
13484.46933	15.8601023	202.0884447	185.9213691	2028	011000	Construction	C.1 Well Drilling	2.396688839	0.222603663	No Reduction	No Reduction
16846.89225	19.81478506	252.4453213	232.2496956	2028	012000	Construction	C.1 Well Drilling	3.935932775	0.365634907	No Reduction	No Reduction
20689.6613	24.3344225	309.9960374	285.1963544	2028	013000	Construction	C.1 Well Drilling	4.342073446	0.403418961	No Reduction	No Reduction
25493.12261	29.9839693	381.9344325	351.3796779	2028	014000	Construction	C.1 Well Drilling	1.440468632	0.133847994	No Reduction	No Reduction
31257.27618	36.76342545	468.2605067	430.7996662	2028	015000	Construction	C.1 Well Drilling	0.352157886	0.032725355	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2029	001000	Construction	C.1 Well Drilling	1.70716499	0.271778577	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2029	002000	Construction	C.1 Well Drilling	10.37478677	1.670098939	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2029	003000	Construction	C.1 Well Drilling	8.888894882	1.440780026	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2029	004000	Construction	C.1 Well Drilling	1.995522499	0.324966104	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2029	005000	Construction	C.1 Well Drilling	4.268129809	0.69920595	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2029	006000	Construction	C.1 Well Drilling	2.604737891	0.244578978	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2029	007000	Construction	C.1 Well Drilling	1.895722829	0.178092842	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2029	008000	Construction	C.1 Well Drilling	1.042360298	0.09797325	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2029	009000	Construction	C.1 Well Drilling	1.882370781	0.176986853	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2029	010000	Construction	C.1 Well Drilling	2.065960381	0.19432	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2029	011000	Construction	C.1 Well Drilling	2.394837206	0.22577128	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2029	012000	Construction	C.1 Well Drilling	3.932938155	0.370845826	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2029	013000	Construction	C.1 Well Drilling	4.338807771	0.409174933	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2029	014000	Construction	C.1 Well Drilling	1.439395654	0.135759534	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2029	015000	Construction	C.1 Well Drilling	0.351897589	0.033193069	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2030	001000	Construction	C.1 Well Drilling	1.704638352	0.271376339	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2030	002000	Construction	C.1 Well Drilling	10.37873517	1.67073454	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2030	003000	Construction	C.1 Well Drilling	8.883443777	1.439896469	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2030	004000	Construction	C.1 Well Drilling	2.001544623	0.325946792	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2030	005000	Construction	C.1 Well Drilling	4.273331306	0.700058061	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2030	006000	Construction	C.1 Well Drilling	2.600882827	0.244216997	No Reduction	No Reduction

1.204871116	1.10848149	1604	2027	9.29828369	1.39914053	No Reduction	No Reduction	0.96630664	0.88900216
1.038581769	0.955495222	1148	2027	5.70595677	0.86408787	No Reduction	No Reduction	0.59614594	0.54845426
0.234898686	0.216106813	222	2027	0.2486572	0.03781943	No Reduction	No Reduction	0.02607375	0.02398786
0.503597582	0.463309778	369	2027	0.88198455	0.13488813	No Reduction	No Reduction	0.09291375	0.08548065
0.21555006	0.198306055	91	2027	0.11903007	0.01083015	No Reduction	No Reduction	0.00980753	0.00902293
0.157020452	0.144458814	56	2027	0.05330642	0.00485235	No Reduction	No Reduction	0.00439657	0.00404485
0.086417089	0.079503724	25	2027	0.01308398	0.00119154	No Reduction	No Reduction	0.00108021	0.0009938
0.15615491	0.143662522	38	2027	0.03591265	0.0032715	No Reduction	No Reduction	0.00296694	0.00272959
0.171500794	0.15778073	33	2027	0.03422704	0.00311898	No Reduction	No Reduction	0.00282976	0.00260338
0.201925489	0.185771446	31	2027	0.03720441	0.00339436	No Reduction	No Reduction	0.00312985	0.00287946
0.331734838	0.305196046	41	2027	0.08080633	0.00737367	No Reduction	No Reduction	0.00680056	0.00625652
0.366068913	0.336783406	37	2027	0.08044654	0.00734178	No Reduction	No Reduction	0.00677227	0.00623049
0.121470443	0.111752807	10	2027	0.00721287	0.00065834	No Reduction	No Reduction	0.00060735	0.00055876
0.029701927	0.027325773	2	2027	0.00035267	3.2192E-05	No Reduction	No Reduction	2.9702E-05	2.7326E-05
0.180042911	0.165639474	329	2028	0.2907258	0.04588466	No Reduction	No Reduction	0.02961706	0.02724769
1.106394722	1.017883202	1608	2028	8.65177945	1.38072969	No Reduction	No Reduction	0.88954136	0.81837809
0.952987348	0.876748355	1150	2028	5.2990977	0.85150913	No Reduction	No Reduction	0.54796773	0.5041303
0.215165627	0.197952397	222	2028	0.23006026	0.03714143	No Reduction	No Reduction	0.02388338	0.02197272
0.461294488	0.424390931	369	2028	0.8157319	0.13247925	No Reduction	No Reduction	0.08510883	0.07830013
0.212946802	0.195911058	91	2028	0.1187246	0.01099296	No Reduction	No Reduction	0.00968908	0.00891395
0.155147012	0.142735249	56	2028	0.0531721	0.00492565	No Reduction	No Reduction	0.00434412	0.00399659
0.085398707	0.078566812	25	2028	0.01305162	0.00120963	No Reduction	No Reduction	0.00106748	0.00098209
0.154330023	0.141983625	38	2028	0.03582497	0.00332132	No Reduction	No Reduction	0.00293227	0.00269769
0.169514911	0.155953718	33	2028	0.03414464	0.00316665	No Reduction	No Reduction	0.002797	0.00257324
0.200129499	0.184119136	31	2028	0.03714868	0.00345036	No Reduction	No Reduction	0.00310201	0.00285385
0.328802036	0.302497869	41	2028	0.08068662	0.00749552	No Reduction	No Reduction	0.00674044	0.00620121
0.362847168	0.3338194	37	2028	0.08032836	0.00746325	No Reduction	No Reduction	0.00671267	0.00617566
0.120405393	0.110772961	10	2028	0.00720234	0.00066924	No Reduction	No Reduction	0.00060203	0.00055386
0.029442279	0.027086896	2	2028	0.00035216	3.2725E-05	No Reduction	No Reduction	2.9442E-05	2.7087E-05
0.173420925	0.159547247	330	2029	0.28168222	0.04484347	No Reduction	No Reduction	0.02861445	0.0263253
1.064669184	0.979495705	1610	2029	8.35170335	1.34442965	No Reduction	No Reduction	0.85705869	0.78849404
0.91797042	0.844532782	1152	2029	5.12000345	0.82988929	No Reduction	No Reduction	0.52875096	0.48645088
0.206971855	0.190414126	222	2029	0.221503	0.03607124	No Reduction	No Reduction	0.02297388	0.02113597
0.445128409	0.409518138	370	2029	0.78960401	0.1293531	No Reduction	No Reduction	0.08234876	0.07576086
0.211317224	0.194411846	91	2029	0.11851557	0.01112834	No Reduction	No Reduction	0.00961493	0.00884574
0.153979142	0.141660809	56	2029	0.05308024	0.0049866	No Reduction	No Reduction	0.00431142	0.0039665
0.084766584	0.077985258	25	2029	0.0130295	0.00122467	No Reduction	No Reduction	0.00105958	0.00097482
0.153200619	0.140944574	38	2029	0.03576504	0.00336275	No Reduction	No Reduction	0.00291081	0.00267795
0.168289885	0.154826694	33	2029	0.03408835	0.00320628	No Reduction	No Reduction	0.00277678	0.00255464
0.199144756	0.183213172	31	2029	0.03711998	0.00349945	No Reduction	No Reduction	0.00308674	0.0028398
0.327199122	0.301023188	41	2029	0.08062523	0.00760234	No Reduction	No Reduction	0.00670758	0.00617098
0.361090588	0.332203347	37	2029	0.08026794	0.00756974	No Reduction	No Reduction	0.00668018	0.00614576
0.119825872	0.110239802	10	2029	0.00719698	0.0006788	No Reduction	No Reduction	0.00059913	0.0005512
0.029301226	0.026957128	2	2029	0.0003519	3.3193E-05	No Reduction	No Reduction	2.9301E-05	2.6957E-05
0.173164258	0.159311114	330	2030	0.28126533	0.0447771	No Reduction	No Reduction	0.0285721	0.02628633
1.065074372	0.979868478	1613	2030	8.37044991	1.34744741	No Reduction	No Reduction	0.85898248	0.79026393
0.917407475	0.844014873	1153	2030	5.12130534	0.83010031	No Reduction	No Reduction	0.52888541	0.48657457
0.207596459	0.190988761	223	2030	0.22317223	0.03634307	No Reduction	No Reduction	0.02314701	0.02129525
0.445670879	0.410017211	371	2030	0.79270296	0.12986077	No Reduction	No Reduction	0.08267195	0.07605819
0.21100447	0.194124113	91	2030	0.11834017	0.01111187	No Reduction	No Reduction	0.0096007	0.00883265

11.66373085	1604	0.007271653	50.7125056	2027
7.166190574	1148	0.006242326	43.5339835	2027
0.312550382	222	0.001407885	9.818587231	2027
1.109786441	369	0.003007551	20.97466298	2027
0.139667745	91	0.00153481	10.70376762	2027
0.062555335	56	0.00111706	7.790373376	2027
0.015355729	25	0.000614229	4.283634142	2027
0.042151097	38	0.001109239	7.735835565	2027
0.040175787	33	0.001217448	8.490483048	2027
0.04372861	31	0.0014106	9.837526756	2027
0.094980563	41	0.002316599	16.15596216	2027
0.094560602	37	0.002555692	17.82339568	2027
0.008478556	10	0.000847856	5.912944713	2027
0.000414563	2	0.000207282	1.44558218	2027
0.366227524	329	0.001113154	7.763132995	2028
10.9220505	1608	0.00679232	47.36963941	2028
6.698574559	1150	0.005824847	40.62248607	2028
0.291085068	222	0.001311194	9.144266952	2028
1.033319984	369	0.002800325	19.52946766	2028
0.139406644	91	0.001531941	10.68375757	2028
0.06244187	56	0.001115033	7.776242864	2028
0.015328732	25	0.000613149	4.276103172	2028
0.042078563	38	0.001107331	7.722523646	2028
0.040108283	33	0.001215403	8.476217174	2028
0.043701041	31	0.001409711	9.831324519	2028
0.094922579	41	0.002315185	16.14609921	2028
0.094504282	37	0.00255417	17.8127801	2028
0.00847361	10	0.000847361	5.909495679	2028
0.000414326	2	0.000207163	1.444753088	2028
0.355140141	330	0.001076182	7.50529498	2029
10.55319169	1610	0.006554777	45.7130179	2029
6.478643709	1152	0.005623823	39.22053926	2029
0.280548111	222	0.00126373	8.813254618	2029
1.001305871	370	0.002706232	18.87326256	2029
0.139258851	91	0.001530317	10.67243108	2029
0.062378255	56	0.001113897	7.768320513	2029
0.015313752	25	0.00061255	4.271924159	2029
0.042038607	38	0.001106279	7.715190628	2029
0.040071409	33	0.001214285	8.468424517	2029
0.043706175	31	0.001409877	9.832479557	2029
0.094935154	41	0.002315492	16.14823808	2029
0.094517856	37	0.002554537	17.81533857	2029
0.008474905	10	0.000847491	5.910398955	2029
0.000414392	2	0.000207196	1.444984502	2029
0.354614527	330	0.001074589	7.494186996	2030
10.5768798	1613	0.006557272	45.7304152	2030
6.480291061	1153	0.005620374	39.1964873	2030
0.282662298	223	0.001267544	8.839851417	2030
1.005235676	371	0.00270953	18.89626308	2030
0.139052745	91	0.001528052	10.65663567	2030

	7000	0.06%	0.11%	No Reduct	No Reduct	0.22%	0.22%	2030	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2030	8000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2030	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.04%	0.07%	No Reduct	No Reduct	0.15%	0.15%	2030	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.03%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2030	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2030	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.03%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2030	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.03%	0.06%	No Reduct	No Reduct	0.12%	0.12%	2030	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2030	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%	2030	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	0.80%	1.27%	No Reduct	No Reduct	2.42%	2.42%	2031	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	3.74%	5.98%	No Reduct	No Reduct	11.43%	11.43%	2031	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	2.59%	4.16%	No Reduct	No Reduct	7.98%	7.98%	2031	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.49%	0.79%	No Reduct	No Reduct	1.52%	1.52%	2031	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	0.79%	1.28%	No Reduct	No Reduct	2.47%	2.47%	2031	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.10%	0.18%	No Reduct	No Reduct	0.36%	0.36%	2031	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.06%	0.11%	No Reduct	No Reduct	0.22%	0.22%	2031	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2031	8000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2031	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.04%	0.07%	No Reduct	No Reduct	0.15%	0.15%	2031	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.03%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2031	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2031	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.03%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2031	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.03%	0.06%	No Reduct	No Reduct	0.12%	0.12%	2031	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2031	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%	2031	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	0.80%	1.28%	No Reduct	No Reduct	2.43%	2.43%	2032	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	3.74%	5.97%	No Reduct	No Reduct	11.42%	11.42%	2032	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	2.60%	4.16%	No Reduct	No Reduct	7.98%	7.98%	2032	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.49%	0.79%	No Reduct	No Reduct	1.52%	1.52%	2032	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	0.79%	1.28%	No Reduct	No Reduct	2.46%	2.46%	2032	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.10%	0.18%	No Reduct	No Reduct	0.36%	0.36%	2032	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.06%	0.11%	No Reduct	No Reduct	0.22%	0.22%	2032	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2032	8000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2032	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.04%	0.07%	No Reduct	No Reduct	0.15%	0.15%	2032	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.03%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2032	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2032	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.03%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2032	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.03%	0.06%	No Reduct	No Reduct	0.12%	0.12%	2032	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2032	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%	2032	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	0.80%	1.28%	No Reduct	No Reduct	2.43%	2.43%	2033	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	3.73%	5.96%	No Reduct	No Reduct	11.40%	11.40%	2033	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	2.60%	4.16%	No Reduct	No Reduct	7.98%	7.98%	2033	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.49%	0.79%	No Reduct	No Reduct	1.52%	1.52%	2033	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	0.79%	1.28%	No Reduct	No Reduct	2.47%	2.47%	2033	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.09%	0.18%	No Reduct	No Reduct	0.36%	0.36%	2033	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.06%	0.11%	No Reduct	No Reduct	0.22%	0.22%	2033	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2033	8000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2033	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.04%	0.07%	No Reduct	No Reduct	0.15%	0.15%	2033	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.03%	0.06%	No Reduct	No Reduct	0.12%	0.12%	2033	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2033	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126

4747.390168	5.585171161	70.21595899	64.59868227	2030	007000	Construction	C.1 Well Drilling	1.892917122	0.177829261	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2030	008000	Construction	C.1 Well Drilling	1.040817584	0.097828248	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2030	009000	Construction	C.1 Well Drilling	1.879584835	0.176724909	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2030	010000	Construction	C.1 Well Drilling	2.062902719	0.194032402	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2030	011000	Construction	C.1 Well Drilling	2.3912928	0.225437134	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2030	012000	Construction	C.1 Well Drilling	3.927117328	0.370296967	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2030	013000	Construction	C.1 Well Drilling	4.33238625	0.408569346	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2030	014000	Construction	C.1 Well Drilling	1.43726532	0.135558607	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2030	015000	Construction	C.1 Well Drilling	0.351376774	0.033143943	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2031	001000	Construction	C.1 Well Drilling	1.702119182	0.27097529	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2031	002000	Construction	C.1 Well Drilling	10.3826719	1.671368262	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2031	003000	Construction	C.1 Well Drilling	8.885702032	1.440262504	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2031	004000	Construction	C.1 Well Drilling	1.998586675	0.325465098	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2031	005000	Construction	C.1 Well Drilling	4.267016038	0.699023492	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2031	006000	Construction	C.1 Well Drilling	2.597039158	0.243856085	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2031	007000	Construction	C.1 Well Drilling	1.890119707	0.177566459	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2031	008000	Construction	C.1 Well Drilling	1.03927943	0.097683674	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2031	009000	Construction	C.1 Well Drilling	1.876807123	0.176463739	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2031	010000	Construction	C.1 Well Drilling	2.059854094	0.193745655	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2031	011000	Construction	C.1 Well Drilling	2.464783349	0.232365395	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2031	012000	Construction	C.1 Well Drilling	3.921313707	0.36974973	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2031	013000	Construction	C.1 Well Drilling	4.325983708	0.407965549	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2031	014000	Construction	C.1 Well Drilling	1.435141282	0.135358274	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2031	015000	Construction	C.1 Well Drilling	0.350857498	0.033094962	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2032	001000	Construction	C.1 Well Drilling	1.709908098	0.272215276	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2032	002000	Construction	C.1 Well Drilling	10.37376613	1.66993464	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2032	003000	Construction	C.1 Well Drilling	8.887953622	1.440627459	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2032	004000	Construction	C.1 Well Drilling	2.004586504	0.326442155	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2032	005000	Construction	C.1 Well Drilling	4.260719408	0.697991977	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2032	006000	Construction	C.1 Well Drilling	2.593206833	0.243496238	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2032	007000	Construction	C.1 Well Drilling	1.887330549	0.177304433	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2032	008000	Construction	C.1 Well Drilling	1.037745816	0.097539527	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2032	009000	Construction	C.1 Well Drilling	1.87403761	0.17620334	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2032	010000	Construction	C.1 Well Drilling	2.056814467	0.193459754	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2032	011000	Construction	C.1 Well Drilling	2.461146187	0.232022504	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2032	012000	Construction	C.1 Well Drilling	3.915527213	0.369204108	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2032	013000	Construction	C.1 Well Drilling	4.319600063	0.407363534	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2032	014000	Construction	C.1 Well Drilling	1.433023514	0.135158532	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2032	015000	Construction	C.1 Well Drilling	0.350339754	0.033046125	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2033	001000	Construction	C.1 Well Drilling	1.70780799	0.271880941	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2033	002000	Construction	C.1 Well Drilling	10.36102507	1.667883628	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2033	003000	Construction	C.1 Well Drilling	8.892382365	1.441345303	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2033	004000	Construction	C.1 Well Drilling	2.002124472	0.326041219	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2033	005000	Construction	C.1 Well Drilling	4.266956709	0.699013773	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2033	006000	Construction	C.1 Well Drilling	2.590021858	0.243197176	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2033	007000	Construction	C.1 Well Drilling	1.88501253	0.177086668	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2033	008000	Construction	C.1 Well Drilling	1.077930107	0.101316518	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2033	009000	Construction	C.1 Well Drilling	1.871735918	0.175986927	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2033	010000	Construction	C.1 Well Drilling	2.054288288	0.193222146	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2033	011000	Construction	C.1 Well Drilling	2.458123409	0.231737534	No Reduction	No Reduction

0.15375125	0.141451148	56	2030	0.05300168	0.00497922	No Reduction	No Reduction	0.00430504	0.00396063
0.084641127	0.077869839	25	2030	0.01301022	0.00122285	No Reduction	No Reduction	0.00105801	0.00097337
0.152973879	0.140735973	38	2030	0.03571211	0.00335777	No Reduction	No Reduction	0.0029065	0.00267398
0.168040813	0.154597547	33	2030	0.03403789	0.00320153	No Reduction	No Reduction	0.00277267	0.00255086
0.198850018	0.182942013	31	2030	0.03706504	0.00349428	No Reduction	No Reduction	0.00308218	0.0028356
0.326714861	0.300577668	41	2030	0.08050591	0.00759109	No Reduction	No Reduction	0.00669765	0.00616184
0.360556167	0.33171168	37	2030	0.08014915	0.00755853	No Reduction	No Reduction	0.00667029	0.00613667
0.119648527	0.110076645	10	2030	0.00718633	0.00067779	No Reduction	No Reduction	0.00059824	0.00055038
0.02925786	0.026917231	2	2030	0.00035138	3.3144E-05	No Reduction	No Reduction	2.9258E-05	2.6917E-05
0.172908351	0.159075679	330	2031	0.28084966	0.04471092	No Reduction	No Reduction	0.02852988	0.02624749
1.065478363	0.98024015	1616	2031	8.38919889	1.35046556	No Reduction	No Reduction	0.86090652	0.79203404
0.917640689	0.844229429	1155	2031	5.13149292	0.8317516	No Reduction	No Reduction	0.5299375	0.4875425
0.207289666	0.190706512	223	2031	0.22284241	0.03628936	No Reduction	No Reduction	0.0231128	0.02126378
0.445012252	0.409411274	371	2031	0.79153148	0.12966886	No Reduction	No Reduction	0.08254977	0.07594579
0.210692641	0.19383723	91	2031	0.11816528	0.01109545	No Reduction	No Reduction	0.00958652	0.00881959
0.153524032	0.141242107	56	2031	0.05292335	0.00497186	No Reduction	No Reduction	0.00429867	0.00395478
0.084516042	0.07775476	25	2031	0.01299099	0.00122105	No Reduction	No Reduction	0.00105645	0.00097193
0.152747809	0.140527989	38	2031	0.03565934	0.00335281	No Reduction	No Reduction	0.00290221	0.00267003
0.167792477	0.154369078	33	2031	0.03398759	0.0031968	No Reduction	No Reduction	0.00276858	0.00254709
0.204961188	0.188564289	32	2031	0.03943653	0.00371785	No Reduction	No Reduction	0.00327938	0.00301703
0.326232031	0.300133464	41	2031	0.08038693	0.00757987	No Reduction	No Reduction	0.00668776	0.00615274
0.360023325	0.331221465	37	2031	0.0800307	0.00754736	No Reduction	No Reduction	0.00666043	0.0061276
0.119471707	0.10991397	10	2031	0.00717571	0.00067679	No Reduction	No Reduction	0.00059736	0.00054957
0.029214622	0.026877452	2	2031	0.00035086	3.3095E-05	No Reduction	No Reduction	2.9215E-05	2.6877E-05
0.173699581	0.159803611	332	2032	0.28384474	0.04518774	No Reduction	No Reduction	0.02883413	0.0265274
1.064564446	0.979399346	1617	2032	8.38718991	1.35014216	No Reduction	No Reduction	0.86070035	0.79184437
0.917873214	0.844443353	1157	2032	5.14168117	0.83340299	No Reduction	No Reduction	0.53098965	0.48851048
0.207911957	0.19127902	224	2032	0.22451369	0.03656152	No Reduction	No Reduction	0.02328614	0.02142325
0.444355569	0.408807126	371	2032	0.79036345	0.12947751	No Reduction	No Reduction	0.08242796	0.07583372
0.210381732	0.193551193	91	2032	0.11799091	0.01107908	No Reduction	No Reduction	0.00957237	0.00880658
0.153297484	0.141033682	56	2032	0.05284526	0.00496452	No Reduction	No Reduction	0.00429233	0.00394894
0.084391326	0.077640021	25	2032	0.01297182	0.00121924	No Reduction	No Reduction	0.00105489	0.0009705
0.152522407	0.140320619	38	2032	0.03560671	0.00334786	No Reduction	No Reduction	0.00289793	0.00266609
0.167544874	0.154141283	33	2032	0.03393744	0.00319209	No Reduction	No Reduction	0.00276449	0.00254333
0.204658737	0.188286034	32	2032	0.03937834	0.00371236	No Reduction	No Reduction	0.00327454	0.00301258
0.325750626	0.299690572	41	2032	0.08026831	0.00756868	No Reduction	No Reduction	0.00667789	0.00614366
0.359492056	0.330732698	37	2032	0.0799126	0.00753623	No Reduction	No Reduction	0.0066506	0.00611855
0.119295408	0.109751775	10	2032	0.00716512	0.00067579	No Reduction	No Reduction	0.00059648	0.00054876
0.029171511	0.02683779	2	2032	0.00035034	3.3046E-05	No Reduction	No Reduction	2.9172E-05	2.6838E-05
0.173486243	0.15960734	332	2033	0.28349613	0.04513224	No Reduction	No Reduction	0.02879872	0.02649482
1.063256948	0.978196448	1617	2033	8.37688877	1.34848391	No Reduction	No Reduction	0.85964324	0.79087183
0.918330578	0.844864127	1159	2033	5.15313558	0.8352596	No Reduction	No Reduction	0.53217257	0.48959876
0.207656599	0.191044091	224	2033	0.22423794	0.03651662	No Reduction	No Reduction	0.02325754	0.02139694
0.445006065	0.409405582	372	2033	0.79365395	0.13001656	No Reduction	No Reduction	0.08277113	0.07614944
0.210123341	0.193313474	91	2033	0.11784599	0.01106547	No Reduction	No Reduction	0.00956061	0.00879576
0.153109204	0.140860465	56	2033	0.05278035	0.00495843	No Reduction	No Reduction	0.00428706	0.00394409
0.087659183	0.08064645	26	2033	0.01401309	0.00131711	No Reduction	No Reduction	0.00113957	0.0010484
0.152335079	0.140148277	38	2033	0.03556298	0.00334375	No Reduction	No Reduction	0.00289437	0.00266282
0.167339095	0.153951967	33	2033	0.03389576	0.00318817	No Reduction	No Reduction	0.0027611	0.00254021
0.204407375	0.188054781	32	2033	0.03932997	0.0037078	No Reduction	No Reduction	0.00327052	0.00300888

0.062285934	56	0.001112249	7.756823246	2030
0.015291087	25	0.000611643	4.265601627	2030
0.041976389	38	0.001104642	7.703771993	2030
0.040012103	33	0.001212488	8.455891081	2030
0.043641489	31	0.00140779	9.817927293	2030
0.094794648	41	0.002312065	16.12433837	2030
0.094377968	37	0.002550756	17.78897152	2030
0.008462362	10	0.000846236	5.901651448	2030
0.000413779	2	0.000206889	1.442845896	2030
0.354090466	330	0.001073001	7.483111842	2031
10.60057096	1616	0.006559759	45.74776108	2031
6.493182018	1155	0.005621803	39.20645142	2031
0.28224457	223	0.001265671	8.826787597	2031
1.003750106	371	0.002705526	18.86833757	2031
0.138847249	91	0.001525794	10.64088695	2031
0.062193886	56	0.001110605	7.74535996	2031
0.015268489	25	0.00061074	4.259297782	2031
0.041914355	38	0.001103009	7.692387109	2031
0.039952972	33	0.001210696	8.44339469	2031
0.046433759	32	0.001451055	10.11965733	2031
0.094654557	41	0.002308648	16.1005093	2031
0.094238493	37	0.002546986	17.7626824	2031
0.008449856	10	0.000844986	5.892929795	2031
0.000413167	2	0.000206584	1.440713612	2031
0.357866611	332	0.001077911	7.517354644	2032
10.59803242	1617	0.006554133	45.7085208	2032
6.50607381	1157	0.005623227	39.21638613	2032
0.284361349	224	0.00126947	8.85328593	2032
1.00226892	371	0.002701533	18.84049447	2032
0.138642359	91	0.001523542	10.62518471	2032
0.062102109	56	0.001108966	7.733930506	2032
0.015245958	25	0.000609838	4.253012542	2032
0.041852504	38	0.001101382	7.681035824	2032
0.039894015	33	0.00120891	8.43093518	2032
0.046365239	32	0.001448914	10.10472424	2032
0.09451488	41	0.002305241	16.07675055	2032
0.09409943	37	0.002543228	17.73647086	2032
0.008437387	10	0.000843739	5.884233883	2032
0.000412557	2	0.000206279	1.43858762	2032
0.357427079	332	0.001076588	7.508121833	2033
10.58501593	1617	0.006546083	45.65238162	2033
6.520567753	1159	0.005626029	39.2359271	2033
0.284012097	224	0.001267911	8.84241233	2033
1.006441638	372	0.002705488	18.86807522	2033
0.138472078	91	0.001521671	10.61213486	2033
0.062025835	56	0.001107604	7.724431697	2033
0.016469776	26	0.000633453	4.417700554	2033
0.041801101	38	0.001100029	7.67160198	2033
0.039845017	33	0.001207425	8.42058031	2033
0.046308293	32	0.001447134	10.09231363	2033

	12000	0.03%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2033	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.03%	0.06%	No Reduct	No Reduct	0.12%	0.12%	2033	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2033	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%	2033	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	0.81%	1.28%	No Reduct	No Reduct	2.43%	2.43%	2034	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	3.74%	5.97%	No Reduct	No Reduct	11.41%	11.41%	2034	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	2.60%	4.16%	No Reduct	No Reduct	7.98%	7.98%	2034	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.49%	0.79%	No Reduct	No Reduct	1.52%	1.52%	2034	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	0.79%	1.28%	No Reduct	No Reduct	2.46%	2.46%	2034	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.09%	0.18%	No Reduct	No Reduct	0.36%	0.36%	2034	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.06%	0.11%	No Reduct	No Reduct	0.22%	0.22%	2034	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2034	8000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2034	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.04%	0.07%	No Reduct	No Reduct	0.14%	0.14%	2034	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.03%	0.06%	No Reduct	No Reduct	0.12%	0.12%	2034	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2034	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.03%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2034	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.03%	0.06%	No Reduct	No Reduct	0.12%	0.12%	2034	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2034	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%	2034	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	0.80%	1.28%	No Reduct	No Reduct	2.43%	2.43%	2035	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	3.74%	5.97%	No Reduct	No Reduct	11.41%	11.41%	2035	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	2.60%	4.17%	No Reduct	No Reduct	7.99%	7.99%	2035	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.49%	0.79%	No Reduct	No Reduct	1.51%	1.51%	2035	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	0.79%	1.28%	No Reduct	No Reduct	2.47%	2.47%	2035	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.09%	0.18%	No Reduct	No Reduct	0.36%	0.36%	2035	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.06%	0.11%	No Reduct	No Reduct	0.22%	0.22%	2035	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2035	8000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2035	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.04%	0.07%	No Reduct	No Reduct	0.14%	0.14%	2035	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.03%	0.06%	No Reduct	No Reduct	0.12%	0.12%	2035	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.03%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2035	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.03%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2035	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.03%	0.06%	No Reduct	No Reduct	0.12%	0.12%	2035	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2035	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%	2035	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176

16846.89225	19.81478506	251.5875537	231.4605494	2033	012000	Construction	C.1 Well Drilling	4.006101535	0.37774457	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2033	013000	Construction	C.1 Well Drilling	4.314294733	0.40686321	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2033	014000	Construction	C.1 Well Drilling	1.431263475	0.134992531	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2033	015000	Construction	C.1 Well Drilling	0.349909467	0.033005538	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2034	001000	Construction	C.1 Well Drilling	1.710431089	0.272298536	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2034	002000	Construction	C.1 Well Drilling	10.36497145	1.668518903	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2034	003000	Construction	C.1 Well Drilling	8.894618049	1.44170768	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2034	004000	Construction	C.1 Well Drilling	1.999178005	0.325561394	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2034	005000	Construction	C.1 Well Drilling	4.260677155	0.697985055	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2034	006000	Construction	C.1 Well Drilling	2.586210199	0.24283927	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2034	007000	Construction	C.1 Well Drilling	1.882238413	0.176826055	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2034	008000	Construction	C.1 Well Drilling	1.076343749	0.101167414	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2034	009000	Construction	C.1 Well Drilling	1.868981339	0.175727933	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2034	010000	Construction	C.1 Well Drilling	2.051265053	0.192937787	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2034	011000	Construction	C.1 Well Drilling	2.454505862	0.231396493	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2034	012000	Construction	C.1 Well Drilling	4.000205874	0.377188655	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2034	013000	Construction	C.1 Well Drilling	4.307945513	0.406264442	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2034	014000	Construction	C.1 Well Drilling	1.429157127	0.134793866	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2034	015000	Construction	C.1 Well Drilling	0.349394516	0.032956965	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2035	001000	Construction	C.1 Well Drilling	1.707917597	0.271898391	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2035	002000	Construction	C.1 Well Drilling	10.36890623	1.66915231	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2035	003000	Construction	C.1 Well Drilling	8.896847162	1.442068992	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2035	004000	Construction	C.1 Well Drilling	1.996240198	0.325082979	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2035	005000	Construction	C.1 Well Drilling	4.265852659	0.698832907	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2035	006000	Construction	C.1 Well Drilling	2.582409743	0.242482416	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2035	007000	Construction	C.1 Well Drilling	1.879472449	0.176566207	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2035	008000	Construction	C.1 Well Drilling	1.074762054	0.101018747	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2035	009000	Construction	C.1 Well Drilling	1.866234857	0.175469699	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2035	010000	Construction	C.1 Well Drilling	2.048250703	0.192654264	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2035	011000	Construction	C.1 Well Drilling	2.450898946	0.231056454	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2035	012000	Construction	C.1 Well Drilling	3.994327541	0.376634373	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2035	013000	Construction	C.1 Well Drilling	4.301614954	0.405667433	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2035	014000	Construction	C.1 Well Drilling	1.42705697	0.134595786	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2035	015000	Construction	C.1 Well Drilling	0.348881078	0.032908534	No Reduction	No Reduction

0.333285919	0.30662304	42		2033	0.08412813	0.00793264	No Reduction	No Reduction	0.006999	0.00643908
0.359050528	0.330326492	37		2033	0.07981445	0.00752697	No Reduction	No Reduction	0.00664243	0.00611104
0.11914889	0.109616978	10		2033	0.00715632	0.00067496	No Reduction	No Reduction	0.00059574	0.00054808
0.029135682	0.026804828	2		2033	0.00034991	3.3006E-05	No Reduction	No Reduction	2.9136E-05	2.6805E-05
0.173752709	0.159852488	333		2034	0.28478678	0.04533771	No Reduction	No Reduction	0.02892983	0.02661544
1.063661929	0.97856903	1620		2034	8.39562688	1.35150031	No Reduction	No Reduction	0.86156616	0.79264091
0.91856146	0.845076539	1161		2034	5.16332578	0.83691131	No Reduction	No Reduction	0.53322493	0.49056693
0.207350997	0.190762937	224		2034	0.22390794	0.03646288	No Reduction	No Reduction	0.02322331	0.02136545
0.444351163	0.408803072	372		2034	0.79248595	0.12982522	No Reduction	No Reduction	0.08264932	0.07603737
0.209814109	0.19302898	91		2034	0.11767256	0.01104919	No Reduction	No Reduction	0.00954654	0.00878282
0.152883877	0.140653165	56		2034	0.05270268	0.00495113	No Reduction	No Reduction	0.00428075	0.00393829
0.087530178	0.080527765	26		2034	0.01399247	0.00131518	No Reduction	No Reduction	0.00113789	0.00104686
0.152110892	0.139942025	38		2034	0.03551065	0.00333883	No Reduction	No Reduction	0.00289011	0.0026589
0.167092827	0.1537254	33		2034	0.03384587	0.00318347	No Reduction	No Reduction	0.00275703	0.00253647
0.204106555	0.187778027	32		2034	0.03927209	0.00370234	No Reduction	No Reduction	0.0032657	0.00300445
0.332795432	0.306171792	42		2034	0.08400432	0.00792096	No Reduction	No Reduction	0.0069887	0.00642961
0.358522124	0.32984036	37		2034	0.07969699	0.00751589	No Reduction	No Reduction	0.00663266	0.00610205
0.118973542	0.109455658	10		2034	0.00714579	0.00067397	No Reduction	No Reduction	0.00059487	0.00054728
0.029092804	0.02676538	2		2034	0.00034939	3.2957E-05	No Reduction	No Reduction	2.9093E-05	2.6765E-05
0.173497378	0.159617584	333		2035	0.28436828	0.04527108	No Reduction	No Reduction	0.02888731	0.02657633
1.064065719	0.978940517	1623		2035	8.41436741	1.3545171	No Reduction	No Reduction	0.86348933	0.79441023
0.918791664	0.845288327	1163		2035	5.17351662	0.83856312	No Reduction	No Reduction	0.53427735	0.49153516
0.207046294	0.190482609	224		2035	0.2235789	0.03640929	No Reduction	No Reduction	0.02318918	0.02133405
0.444890922	0.409299651	373		2035	0.79558152	0.13033234	No Reduction	No Reduction	0.08297216	0.07633438
0.209505785	0.192745323	91		2035	0.11749964	0.01103295	No Reduction	No Reduction	0.00953251	0.00876991
0.152659213	0.140446474	56		2035	0.05262523	0.00494385	No Reduction	No Reduction	0.00427446	0.0039325
0.087401552	0.080409429	26		2035	0.01397191	0.00131324	No Reduction	No Reduction	0.00113622	0.00104532
0.151887364	0.139736379	38		2035	0.03545846	0.00333392	No Reduction	No Reduction	0.00288586	0.00265499
0.166847283	0.153499499	33		2035	0.03379614	0.0031788	No Reduction	No Reduction	0.00275298	0.00253274
0.203806619	0.187502086	32		2035	0.03921438	0.0036969	No Reduction	No Reduction	0.00326091	0.00300003
0.332306386	0.305721871	42		2035	0.08388088	0.00790932	No Reduction	No Reduction	0.00697843	0.00642016
0.357995273	0.329355657	37		2035	0.07957988	0.00750485	No Reduction	No Reduction	0.00662291	0.00609308
0.118798709	0.109294812	10		2035	0.00713528	0.00067298	No Reduction	No Reduction	0.00059399	0.00054647
0.029050052	0.026726048	2		2035	0.00034888	3.2909E-05	No Reduction	No Reduction	2.905E-05	2.6726E-05

0.099059773	42	0.002358566	16.44863937	2033
0.093983857	37	0.002540104	17.71468694	2033
0.008427024	10	0.000842702	5.87700687	2033
0.000412051	2	0.000206025	1.436820747	2033
0.359054308	333	0.001078241	7.519653896	2034
10.60869335	1620	0.006548576	45.66977001	2034
6.533462013	1161	0.005627444	39.24579163	2034
0.283594124	224	0.001266045	8.829399213	2034
1.004960487	372	0.002701507	18.84030763	2034
0.138268293	91	0.001519432	10.5965173	2034
0.061934554	56	0.001105974	7.71306388	2034
0.016445537	26	0.000632521	4.411199155	2034
0.041739583	38	0.00109841	7.660311911	2034
0.039786379	33	0.001205648	8.408187992	2034
0.046240143	32	0.001445004	10.07746107	2034
0.098913989	42	0.002355095	16.42443239	2034
0.093845543	37	0.002536366	17.68861676	2034
0.008414623	10	0.000841462	5.868357854	2034
0.000411444	2	0.000205722	1.434706221	2034
0.358526675	333	0.001076657	7.508603707	2035
10.63237384	1623	0.006551062	45.6871073	2035
6.546357096	1163	0.005628854	39.25562716	2035
0.283177381	224	0.001264185	8.816424343	2035
1.008886015	373	0.002704788	18.86319322	2035
0.138065106	91	0.001517199	10.58094563	2035
0.06184354	56	0.001104349	7.701729473	2035
0.016421371	26	0.000631591	4.404716864	2035
0.041678246	38	0.001096796	7.649055024	2035
0.039727912	33	0.001203876	8.395832095	2035
0.046172192	32	0.001442881	10.06265216	2035
0.098768634	42	0.002351634	16.40029656	2035
0.093707637	37	0.002532639	17.6626232	2035
0.008402257	10	0.000840226	5.859734256	2035
0.00041084	2	0.00020542	1.432597909	2035

Final % Reduction

		NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
	1000	1.38%	1.41%	No Reduct	No Reduct	2.68%	2.68%
	2000	6.08%	6.26%	No Reduct	No Reduct	11.97%	11.97%
	3000	3.88%	4.01%	No Reduct	No Reduct	7.69%	7.69%
	4000	0.71%	0.74%	No Reduct	No Reduct	1.41%	1.41%
	5000	1.19%	1.24%	No Reduct	No Reduct	2.39%	2.39%
	6000	0.13%	0.16%	No Reduct	No Reduct	0.33%	0.33%
	7000	0.08%	0.10%	No Reduct	No Reduct	0.21%	0.21%
2012	8000	0.04%	0.05%	No Reduct	No Reduct	0.11%	0.11%
	9000	0.06%	0.07%	No Reduct	No Reduct	0.15%	0.15%
	10000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%
	11000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%
	12000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%
	13000	0.03%	0.04%	No Reduct	No Reduct	0.08%	0.08%
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	1000	1.25%	1.27%	No Reduct	No Reduct	2.42%	2.42%
	2000	5.80%	5.96%	No Reduct	No Reduct	11.40%	11.40%
	3000	4.03%	4.16%	No Reduct	No Reduct	7.97%	7.97%
	4000	0.76%	0.79%	No Reduct	No Reduct	1.52%	1.52%
	5000	1.23%	1.28%	No Reduct	No Reduct	2.47%	2.47%
	6000	0.15%	0.18%	No Reduct	No Reduct	0.36%	0.36%
	7000	0.09%	0.11%	No Reduct	No Reduct	0.22%	0.22%
2015	8000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%
	9000	0.06%	0.07%	No Reduct	No Reduct	0.14%	0.14%
	10000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%
	11000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%
	12000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%
	13000	0.05%	0.06%	No Reduct	No Reduct	0.12%	0.12%
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%
	1000	1.24%	1.27%	No Reduct	No Reduct	2.42%	2.42%
	2000	5.80%	5.96%	No Reduct	No Reduct	11.40%	11.40%
	3000	4.03%	4.16%	No Reduct	No Reduct	7.98%	7.98%
	4000	0.76%	0.79%	No Reduct	No Reduct	1.51%	1.51%
	5000	1.23%	1.28%	No Reduct	No Reduct	2.47%	2.47%
	6000	0.15%	0.18%	No Reduct	No Reduct	0.36%	0.36%
	7000	0.09%	0.11%	No Reduct	No Reduct	0.22%	0.22%
2016	8000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%
	9000	0.06%	0.07%	No Reduct	No Reduct	0.14%	0.14%
	10000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%
	11000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%
	12000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%
	13000	0.05%	0.06%	No Reduct	No Reduct	0.12%	0.12%
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%
	1000	1.24%	1.27%	No Reduct	No Reduct	2.42%	2.42%

Drilling Emissions in Lbs/Well Drilled

CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB
2012	001000	Construction	C.1 Well Drilling	889.3949598	52.74499254
2012	002000	Construction	C.1 Well Drilling	1165.785878	68.6565032
2012	003000	Construction	C.1 Well Drilling	1442.176795	84.56801385
2012	004000	Construction	C.1 Well Drilling	1718.567713	100.4795245
2012	005000	Construction	C.1 Well Drilling	2271.349549	132.3025458
2012	006000	Construction	C.1 Well Drilling	5143.498427	247.3684469
2012	007000	Construction	C.1 Well Drilling	6160.153671	295.8400441
2012	008000	Construction	C.1 Well Drilling	7685.136537	368.54744
2012	009000	Construction	C.1 Well Drilling	9210.119402	441.2548359
2012	010000	Construction	C.1 Well Drilling	11751.75751	562.433829
2012	011000	Construction	C.1 Well Drilling	17376.84905	812.3437041
2012	012000	Construction	C.1 Well Drilling	21706.00576	1014.177015
2012	013000	Construction	C.1 Well Drilling	26653.61343	1244.843656
2012	014000	Construction	C.1 Well Drilling	32838.12301	1533.176957
2012	015000	Construction	C.1 Well Drilling	40259.53452	1879.176919
2015	001000	Construction	C.1 Well Drilling	802.5835351	48.79234205
2015	002000	Construction	C.1 Well Drilling	1051.798768	63.53247208
2015	003000	Construction	C.1 Well Drilling	1301.014	78.27260212
2015	004000	Construction	C.1 Well Drilling	1550.229233	93.01273216
2015	005000	Construction	C.1 Well Drilling	2048.659698	122.4929922
2015	006000	Construction	C.1 Well Drilling	5123.472228	266.380754
2015	007000	Construction	C.1 Well Drilling	6137.179107	318.7425144
2015	008000	Construction	C.1 Well Drilling	7657.739424	397.285155
2015	009000	Construction	C.1 Well Drilling	9178.299741	475.8277956
2015	010000	Construction	C.1 Well Drilling	11712.56694	606.7321966
2015	011000	Construction	C.1 Well Drilling	17402.30073	885.5183604
2015	012000	Construction	C.1 Well Drilling	21739.14145	1105.754963
2015	013000	Construction	C.1 Well Drilling	26695.53085	1357.453936
2015	014000	Construction	C.1 Well Drilling	32891.01759	1672.077654
2015	015000	Construction	C.1 Well Drilling	40325.60169	2049.626115
2016	001000	Construction	C.1 Well Drilling	763.3389208	46.54759315
2016	002000	Construction	C.1 Well Drilling	1000.28455	60.61695792
2016	003000	Construction	C.1 Well Drilling	1237.23018	74.68632269
2016	004000	Construction	C.1 Well Drilling	1474.175809	88.75568746
2016	005000	Construction	C.1 Well Drilling	1948.067068	116.894417
2016	006000	Construction	C.1 Well Drilling	5042.783384	260.999804
2016	007000	Construction	C.1 Well Drilling	6040.839654	312.331865
2016	008000	Construction	C.1 Well Drilling	7537.924059	389.3299566
2016	009000	Construction	C.1 Well Drilling	9035.008464	466.3280481
2016	010000	Construction	C.1 Well Drilling	11530.14914	594.6582007
2016	011000	Construction	C.1 Well Drilling	17169.76603	870.1619411
2016	012000	Construction	C.1 Well Drilling	21449.08203	1086.617552
2016	013000	Construction	C.1 Well Drilling	26339.72888	1333.995392
2016	014000	Construction	C.1 Well Drilling	32453.03745	1643.217693
2016	015000	Construction	C.1 Well Drilling	39789.00774	2014.284454
2017	001000	Construction	C.1 Well Drilling	719.1407087	43.99990232

Amount of Drilling Emissions Reduced in Changing 75<hp<120 Engines to Tier 4f in Lbs/Well Drilled

COLB	SOXLB	PM10LB	PM25LB	CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB	COLB	SOXLB
650.4930445	0.766405804	40.20745903	36.99086231	2012	001000	Construction	C.1 Well Drilling	12.23481162	0.741699258	No Reduction	No Reduction
855.7315035	1.008083983	52.13380846	47.96310378	2012	002000	Construction	C.1 Well Drilling	70.91507771	4.296786571	No Reduction	No Reduction
1060.969963	1.249762162	64.06015789	58.93534526	2012	003000	Construction	C.1 Well Drilling	55.97624588	3.390541348	No Reduction	No Reduction
1266.208422	1.491440341	75.98650732	69.90758673	2012	004000	Construction	C.1 Well Drilling	12.21943286	0.739981679	No Reduction	No Reduction
1676.68534	1.974796699	99.83920617	91.85206968	2012	005000	Construction	C.1 Well Drilling	27.09012127	1.640057977	No Reduction	No Reduction
3961.954751	4.661204512	182.7774876	168.1552886	2012	006000	Construction	C.1 Well Drilling	6.895551981	0.396389111	No Reduction	No Reduction
4747.390168	5.585171161	218.447303	200.9715188	2012	007000	Construction	C.1 Well Drilling	5.195792662	0.298573648	No Reduction	No Reduction
5925.543293	6.971121135	271.9520261	250.195864	2012	008000	Construction	C.1 Well Drilling	3.342195563	0.19198945	No Reduction	No Reduction
7103.696418	8.357071108	325.4567491	299.4202092	2012	009000	Construction	C.1 Well Drilling	5.693818251	0.326998442	No Reduction	No Reduction
9067.284959	10.66698773	414.6312876	381.4607846	2012	010000	Construction	C.1 Well Drilling	4.576298111	0.262750414	No Reduction	No Reduction
13484.46933	15.8601023	592.2478825	544.8680519	2012	011000	Construction	C.1 Well Drilling	6.551419384	0.374040596	No Reduction	No Reduction
16846.89225	19.81478506	739.2027504	680.0665304	2012	012000	Construction	C.1 Well Drilling	8.782877527	0.501371464	No Reduction	No Reduction
20689.6613	24.3344225	907.1511709	834.5790772	2012	013000	Construction	C.1 Well Drilling	7.951210321	0.453848453	No Reduction	No Reduction
25493.12261	29.9839693	1117.086697	1027.719761	2012	014000	Construction	C.1 Well Drilling	2.927379729	0.167078023	No Reduction	No Reduction
31257.27618	36.76342545	1369.009327	1259.488581	2012	015000	Construction	C.1 Well Drilling	0.596300076	0.034031057	No Reduction	No Reduction
650.4930445	0.766405804	36.05112075	33.16703109	2015	001000	Construction	C.1 Well Drilling	9.999969737	0.621446993	No Reduction	No Reduction
855.7315035	1.008083983	46.72603737	42.98795438	2015	002000	Construction	C.1 Well Drilling	60.95182775	3.787844471	No Reduction	No Reduction
1060.969963	1.249762162	57.40095398	52.80887767	2015	003000	Construction	C.1 Well Drilling	52.38374215	3.255382097	No Reduction	No Reduction
1266.208422	1.491440341	68.0758706	62.62980095	2015	004000	Construction	C.1 Well Drilling	11.81110968	0.734000197	No Reduction	No Reduction
1676.68534	1.974796699	89.42570384	82.27164753	2015	005000	Construction	C.1 Well Drilling	25.28630094	1.571414469	No Reduction	No Reduction
3961.954751	4.661204512	183.9929422	169.2735068	2015	006000	Construction	C.1 Well Drilling	7.577376407	0.470895247	No Reduction	No Reduction
4747.390168	5.585171161	219.9862565	202.387356	2015	007000	Construction	C.1 Well Drilling	5.53403894	0.343912258	No Reduction	No Reduction
5925.543293	6.971121135	273.9762279	252.0581296	2015	008000	Construction	C.1 Well Drilling	3.095965847	0.192398468	No Reduction	No Reduction
7103.696418	8.357071108	327.9661993	301.7289033	2015	009000	Construction	C.1 Well Drilling	5.441159967	0.338140299	No Reduction	No Reduction
9067.284959	10.66698773	417.9494849	384.5135261	2015	010000	Construction	C.1 Well Drilling	6.130012369	0.380948962	No Reduction	No Reduction
13484.46933	15.8601023	602.454831	554.2584445	2015	011000	Construction	C.1 Well Drilling	6.958183234	0.432415557	No Reduction	No Reduction
16846.89225	19.81478506	752.061946	691.8969903	2015	012000	Construction	C.1 Well Drilling	11.42411398	0.709950341	No Reduction	No Reduction
20689.6613	24.3344225	923.041506	849.1981855	2015	013000	Construction	C.1 Well Drilling	12.26002475	0.761897922	No Reduction	No Reduction
25493.12261	29.9839693	1136.765956	1045.82468	2015	014000	Construction	C.1 Well Drilling	4.179553888	0.259737927	No Reduction	No Reduction
31257.27618	36.76342545	1393.235296	1281.776472	2015	015000	Construction	C.1 Well Drilling	1.021668729	0.063491494	No Reduction	No Reduction
650.4930445	0.766405804	33.77182493	31.07007894	2016	001000	Construction	C.1 Well Drilling	9.50140979	0.592259258	No Reduction	No Reduction
855.7315035	1.008083983	43.76261426	40.26160512	2016	002000	Construction	C.1 Well Drilling	57.98170405	3.614963028	No Reduction	No Reduction
1060.969963	1.249762162	53.7534036	49.45313131	2016	003000	Construction	C.1 Well Drilling	49.85360886	3.108599856	No Reduction	No Reduction
1266.208422	1.491440341	63.74419293	58.64465749	2016	004000	Construction	C.1 Well Drilling	11.22034637	0.699700478	No Reduction	No Reduction
1676.68534	1.974796699	83.72577159	77.02770987	2016	005000	Construction	C.1 Well Drilling	24.02047471	1.498081622	No Reduction	No Reduction
3961.954751	4.661204512	178.7846588	164.4818861	2016	006000	Construction	C.1 Well Drilling	7.450526971	0.46091819	No Reduction	No Reduction
4747.390168	5.585171161	213.7816992	196.6791633	2016	007000	Construction	C.1 Well Drilling	5.441679056	0.336655845	No Reduction	No Reduction
5925.543293	6.971121135	266.2772598	244.975079	2016	008000	Construction	C.1 Well Drilling	3.044454851	0.188355929	No Reduction	No Reduction
7103.696418	8.357071108	318.7728203	293.2709947	2016	009000	Construction	C.1 Well Drilling	5.350816091	0.331055544	No Reduction	No Reduction
9067.284959	10.66698773	406.2654213	373.7641876	2016	010000	Construction	C.1 Well Drilling	6.028460128	0.372991873	No Reduction	No Reduction
13484.46933	15.8601023	587.6133242	540.6042583	2016	011000	Construction	C.1 Well Drilling	6.858288845	0.424488596	No Reduction	No Reduction
16846.89225	19.81478506	733.5667911	674.8814478	2016	012000	Construction	C.1 Well Drilling	11.26032829	0.696960225	No Reduction	No Reduction
20689.6613	24.3344225	900.3707532	828.3410929	2016	013000	Construction	C.1 Well Drilling	12.0844333	0.74797696	No Reduction	No Reduction
25493.12261	29.9839693	1108.875706	1020.165649	2016	014000	Construction	C.1 Well Drilling	4.119743461	0.254997682	No Reduction	No Reduction
31257.27618	36.76342545	1359.081649	1250.355117	2016	015000	Construction	C.1 Well Drilling	1.007058169	0.062333843	No Reduction	No Reduction
650.4930445	0.766405804	31.39998534	28.88798652	2017	001000	Construction	C.1 Well Drilling	8.937759155	0.558998281	No Reduction	No Reduction

		Wells Drilled Each Year	Amount of Drilling Emissions Reduced in Changing 75<hp<120 Engines to Tier 4f in tons/year						
PM10LB	PM25LB		CALYEAR	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB
1.076025554	0.989943486	305	2012	1.86580877	0.11310914	No Reduction	No Reduction	0.1640939	0.15096638
6.238134783	5.739084326	1414	2012	50.1369599	3.03782811	No Reduction	No Reduction	4.41036129	4.05753262
4.924679584	4.530705193	930	2012	26.0289543	1.57660173	No Reduction	No Reduction	2.28997601	2.10677791
1.075141006	0.989129827	174	2012	1.06309066	0.06437841	No Reduction	No Reduction	0.09353727	0.08605429
2.383841692	2.193134368	300	2012	4.06351819	0.2460087	No Reduction	No Reduction	0.35757625	0.32897016
0.596263454	0.548562379	69	2012	0.23789654	0.01367542	No Reduction	No Reduction	0.02057109	0.0189254
0.449181707	0.413247164	44	2012	0.11430744	0.00656862	No Reduction	No Reduction	0.009882	0.00909144
0.288869789	0.265760211	23	2012	0.03843525	0.00220788	No Reduction	No Reduction	0.003322	0.00305624
0.49204704	0.452683292	33.00	2012	0.093948	0.00539547	No Reduction	No Reduction	0.00811878	0.00746927
0.395406404	0.36377389	21	2012	0.04805113	0.00275888	No Reduction	No Reduction	0.00415177	0.00381963
0.563627175	0.518536991	25	2012	0.08189274	0.00467551	No Reduction	No Reduction	0.00704534	0.00648171
0.755528967	0.695086638	27	2012	0.11856885	0.00676851	No Reduction	No Reduction	0.01019964	0.00938367
0.683936841	0.629221905	20	2012	0.0795121	0.00453848	No Reduction	No Reduction	0.00683937	0.00629222
0.251788402	0.231645329	6	2012	0.00878214	0.00050123	No Reduction	No Reduction	0.00075537	0.00069494
0.051286229	0.04718333	1	2012	0.00029815	1.7016E-05	No Reduction	No Reduction	2.5643E-05	2.3592E-05
0.873857352	0.803948744	323	2015	1.61499511	0.10036369	No Reduction	No Reduction	0.14112796	0.12983772
5.326335716	4.900229137	1575	2015	47.9995644	2.98292752	No Reduction	No Reduction	4.19448938	3.85893045
4.577605576	4.211397107	1128	2015	29.5444306	1.8360355	No Reduction	No Reduction	2.58176954	2.37522797
1.032125545	0.949555598	218	2015	1.28741096	0.08000602	No Reduction	No Reduction	0.11250168	0.10350156
2.209668695	2.03289521	363	2015	4.58946362	0.28521173	No Reduction	No Reduction	0.40105487	0.36897048
0.662156585	0.609184059	89	2015	0.33719325	0.02095484	No Reduction	No Reduction	0.02946597	0.02710869
0.483597526	0.444909716	55	2015	0.15218607	0.00945759	No Reduction	No Reduction	0.01329893	0.01223502
0.270544067	0.248900547	25	2015	0.03869957	0.00240498	No Reduction	No Reduction	0.0033818	0.00311126
0.475481196	0.437442715	37.00	2015	0.10066146	0.0062556	No Reduction	No Reduction	0.0087964	0.00809269
0.53567725	0.492823067	33.00	2015	0.1011452	0.00628566	No Reduction	No Reduction	0.00883867	0.00813158
0.608047795	0.55940396	31	2015	0.10785184	0.00670244	No Reduction	No Reduction	0.00942474	0.00867076
0.998307619	0.918442996	41	2015	0.23419434	0.01455398	No Reduction	No Reduction	0.02046531	0.01882808
1.071354509	0.985646165	36	2015	0.22068045	0.01371416	No Reduction	No Reduction	0.01928438	0.01774163
0.365234492	0.336015731	10	2015	0.02089777	0.00129869	No Reduction	No Reduction	0.00182617	0.00168008
0.089279543	0.082137179	2	2015	0.00102167	6.3491E-05	No Reduction	No Reduction	8.928E-05	8.2137E-05
0.817783806	0.752361083	323	2016	1.53447768	0.09564987	No Reduction	No Reduction	0.13207208	0.12150631
4.989834948	4.590648413	1577	2016	45.7185736	2.85039835	No Reduction	No Reduction	3.93448486	3.61972627
4.289994886	3.946795275	1130	2016	28.167289	1.75635892	No Reduction	No Reduction	2.42384711	2.22993933
0.96547749	0.888239381	218	2016	1.22301775	0.07626735	No Reduction	No Reduction	0.10523705	0.09681809
2.066741488	1.901402179	363	2016	4.35971616	0.27190181	No Reduction	No Reduction	0.37511358	0.3451045
0.642764661	0.591343488	89	2016	0.33154845	0.02051086	No Reduction	No Reduction	0.02860303	0.02631479
0.469484489	0.431925723	55	2016	0.14964617	0.00925804	No Reduction	No Reduction	0.01291082	0.01187796
0.262676617	0.241662492	25	2016	0.03805569	0.00235445	No Reduction	No Reduction	0.00328346	0.00302078
0.461687108	0.424752153	37	2016	0.0989901	0.00612453	No Reduction	No Reduction	0.00854121	0.00785791
0.520177389	0.478563195	33	2016	0.09946959	0.00615437	No Reduction	No Reduction	0.00858293	0.00789629
0.592470955	0.545073268	31	2016	0.10630348	0.00657957	No Reduction	No Reduction	0.0091833	0.00844864
0.972775529	0.894953473	41	2016	0.23083673	0.01428768	No Reduction	No Reduction	0.0199419	0.01834655
1.043988113	0.960469081	36	2016	0.2175198	0.01346359	No Reduction	No Reduction	0.01879179	0.01728844
0.355914595	0.327441426	10	2016	0.02059872	0.00127499	No Reduction	No Reduction	0.00177957	0.00163721
0.087003203	0.080042946	2	2016	0.00100706	6.2334E-05	No Reduction	No Reduction	8.7003E-05	8.0043E-05
0.759202367	0.698466161	323	2017	1.4434481	0.09027822	No Reduction	No Reduction	0.12261118	0.11280228

VERA Emissions (tons/year)	Wells Drilled Each Year	VERA Emissions (tons/year-well)	VERA Fee Reduction	Year
2.143011806	305			
57.58514934	1414			
29.89553207	930			
1.221006333	174			
4.667103141	300			
0.272143057	69			
0.130758056	44			
0.04396513	23			
0.107462252	33.00			
0.054961777	21			
0.093613589	25			
0.135537002	27			
0.090889956	20			
0.010038738	6			
0.000340809	1			
1.856486764	323	0.005747637	40.08402072	2015
55.17698125	1575	0.035033004	244.3201697	2015
33.96223562	1128	0.030108365	209.9757369	2015
1.479918661	218	0.006788618	47.34381992	2015
5.275730214	363	0.014533692	101.3579684	2015
0.387614057	89	0.004355214	30.37326327	2015
0.17494259	55	0.003180774	22.1827204	2015
0.044486355	25	0.001779454	12.40991353	2015
0.115713457	37.00	0.003127391	21.81042296	2015
0.116269537	33.00	0.003523319	24.57162873	2015
0.123979022	31	0.003999323	27.89128065	2015
0.269213625	41	0.006566186	45.79258096	2015
0.253678989	36	0.007046639	49.14325752	2015
0.024022632	10	0.002402263	16.75338323	2015
0.00117444	2	0.00058722	4.095271463	2015
1.762199636	323	0.005455726	38.04823611	2016
52.50345685	1577	0.033293251	232.1871326	2016
32.34749504	1130	0.028626102	199.638434	2016
1.404522152	218	0.006442762	44.93182335	2016
5.006731554	363	0.013792649	96.18993349	2016
0.380662337	89	0.004277105	29.82852965	2016
0.171815033	55	0.00312391	21.78614622	2016
0.043693592	25	0.001747744	12.18876456	2016
0.113655837	37	0.003071779	21.42258933	2016
0.114206885	33	0.003460815	24.13572168	2016
0.12206635	31	0.003937624	27.46099116	2016
0.265066313	41	0.006465032	45.08713332	2016
0.249775171	36	0.006938199	48.38700114	2016
0.023653279	10	0.002365328	16.49579656	2016
0.001156395	2	0.000578198	4.032350115	2016
1.656337508	323	0.00512798	35.76253183	2017

Amount of Construction - Well Drilling Emissions Reduced in C				
Year	NOX	ROG	CO	SOX
2015	86.35	5.37	0.00	0.00
2016	82.30	5.13	0.00	0.00
2017	77.79	4.87	0.00	0.00
2018	67.05	4.22	0.00	0.00
2019	61.86	3.94	0.00	0.00
2020	51.56	3.54	0.00	0.00
2021	49.60	3.45	0.00	0.00
2022	37.55	2.89	0.00	0.00
2023	34.60	2.78	0.00	0.00
2024	30.86	2.66	0.00	0.00
2025	28.78	2.58	0.00	0.00
2026	27.42	2.55	0.00	0.00
2027	26.25	2.52	0.00	0.00
2028	24.45	2.49	0.00	0.00
2029	23.63	2.43	0.00	0.00
2030	23.67	2.43	0.00	0.00
2031	23.71	2.44	0.00	0.00
2032	23.73	2.44	0.00	0.00
2033	23.74	2.44	0.00	0.00
2034	23.79	2.44	0.00	0.00
2035	23.83	2.45	0.00	0.00

Changing 75 < hp ≤ 120 Engines to Tier 4f		
PM10	PM25	VERA Fee Reduction Per Well
7.55	6.94	$898.11
7.08	6.52	$861.82
6.61	6.08	$823.66
5.48	5.04	$732.81
4.95	4.56	$654.76
4.19	3.85	$575.64
3.89	3.58	$557.51
2.94	2.71	$465.49
2.60	2.40	$441.02
2.31	2.13	$413.90
2.08	1.91	$397.38
1.90	1.75	$334.07
1.75	1.61	$324.61
1.61	1.49	$311.20
1.56	1.43	$304.89
1.56	1.44	$304.74
1.56	1.44	$304.97
1.56	1.44	$304.78
1.56	1.44	$305.40
1.57	1.44	$305.20
1.57	1.45	$305.05
	Average:	**$472.72**

	2000	5.80%	5.97%	No Reduct	No Reduct	11.41%	11.41%	2017	002000	Construction	C.1 Well Drilling	942.654357	57.33159172
	3000	4.03%	4.16%	No Reduct	No Reduct	7.98%	7.98%	2017	003000	Construction	C.1 Well Drilling	1166.168005	70.66328112
	4000	0.76%	0.79%	No Reduct	No Reduct	1.52%	1.52%	2017	004000	Construction	C.1 Well Drilling	1389.681653	83.99497053
	5000	1.23%	1.28%	No Reduct	No Reduct	2.46%	2.46%	2017	005000	Construction	C.1 Well Drilling	1836.70895	110.6583493
	6000	0.15%	0.18%	No Reduct	No Reduct	0.36%	0.36%	2017	006000	Construction	C.1 Well Drilling	4995.849988	257.5406623
	7000	0.09%	0.11%	No Reduct	No Reduct	0.22%	0.22%	2017	007000	Construction	C.1 Well Drilling	5985.300033	308.2478279
2017	8000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2017	008000	Construction	C.1 Well Drilling	7469.4751	384.3085764
	9000	0.06%	0.07%	No Reduct	No Reduct	0.14%	0.14%	2017	009000	Construction	C.1 Well Drilling	8953.650168	460.3693248
	10000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2017	010000	Construction	C.1 Well Drilling	11427.27528	587.1372389
	11000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2017	011000	Construction	C.1 Well Drilling	17043.46992	860.972981
	12000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2017	012000	Construction	C.1 Well Drilling	21292.18745	1075.215018
	13000	0.05%	0.06%	No Reduct	No Reduct	0.12%	0.12%	2017	013000	Construction	C.1 Well Drilling	26147.86464	1320.06306
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2017	014000	Construction	C.1 Well Drilling	32217.46112	1626.123112
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%	2017	015000	Construction	C.1 Well Drilling	39500.9769	1993.395175
	1000	1.25%	1.28%	No Reduct	No Reduct	2.43%	2.43%	2018	001000	Construction	C.1 Well Drilling	618.2650511	38.07086535
	2000	5.80%	5.96%	No Reduct	No Reduct	11.40%	11.40%	2018	002000	Construction	C.1 Well Drilling	810.1939548	49.62555854
	3000	4.03%	4.16%	No Reduct	No Reduct	7.98%	7.98%	2018	003000	Construction	C.1 Well Drilling	1002.122858	61.18025173
	4000	0.76%	0.79%	No Reduct	No Reduct	1.52%	1.52%	2018	004000	Construction	C.1 Well Drilling	1194.051762	72.73494492
	5000	1.23%	1.28%	No Reduct	No Reduct	2.47%	2.47%	2018	005000	Construction	C.1 Well Drilling	1577.909569	95.84433131
	6000	0.15%	0.18%	No Reduct	No Reduct	0.36%	0.36%	2018	006000	Construction	C.1 Well Drilling	4823.38249	244.8783498
	7000	0.09%	0.11%	No Reduct	No Reduct	0.22%	0.22%	2018	007000	Construction	C.1 Well Drilling	5779.56332	293.1726627
2018	8000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2018	008000	Construction	C.1 Well Drilling	7213.834565	365.6141319
	9000	0.06%	0.07%	No Reduct	No Reduct	0.14%	0.14%	2018	009000	Construction	C.1 Well Drilling	8648.10581	438.0556011
	10000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2018	010000	Construction	C.1 Well Drilling	11038.55788	558.7913832
	11000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2018	011000	Construction	C.1 Well Drilling	16557.08617	825.6487898
	12000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2018	012000	Construction	C.1 Well Drilling	20685.73813	1031.209291
	13000	0.05%	0.06%	No Reduct	No Reduct	0.12%	0.12%	2018	013000	Construction	C.1 Well Drilling	25404.19751	1266.135578
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2018	014000	Construction	C.1 Well Drilling	31302.27173	1559.793436
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%	2018	015000	Construction	C.1 Well Drilling	38379.9608	1912.182867
	1000	1.25%	1.27%	No Reduct	No Reduct	2.43%	2.43%	2019	001000	Construction	C.1 Well Drilling	569.7563561	35.5442175
	2000	5.80%	5.97%	No Reduct	No Reduct	11.42%	11.42%	2019	002000	Construction	C.1 Well Drilling	746.8582133	46.37616294
	3000	4.03%	4.16%	No Reduct	No Reduct	7.97%	7.97%	2019	003000	Construction	C.1 Well Drilling	923.9600705	57.20810837
	4000	0.76%	0.79%	No Reduct	No Reduct	1.51%	1.51%	2019	004000	Construction	C.1 Well Drilling	1101.061928	68.04005381
	5000	1.23%	1.28%	No Reduct	No Reduct	2.47%	2.47%	2019	005000	Construction	C.1 Well Drilling	1455.265642	89.70394468
	6000	0.15%	0.18%	No Reduct	No Reduct	0.36%	0.36%	2019	006000	Construction	C.1 Well Drilling	4096.004555	186.2976253
	7000	0.09%	0.11%	No Reduct	No Reduct	0.22%	0.22%	2019	007000	Construction	C.1 Well Drilling	4907.51531	222.9474742
2019	8000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2019	008000	Construction	C.1 Well Drilling	6124.781441	277.9222474
	9000	0.06%	0.07%	No Reduct	No Reduct	0.14%	0.14%	2019	009000	Construction	C.1 Well Drilling	7342.047572	332.8970206
	10000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2019	010000	Construction	C.1 Well Drilling	9370.824458	424.5216427
	11000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2019	011000	Construction	C.1 Well Drilling	14035.91596	622.1002856
	12000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2019	012000	Construction	C.1 Well Drilling	17535.28226	776.8632618
	13000	0.05%	0.06%	No Reduct	No Reduct	0.12%	0.12%	2019	013000	Construction	C.1 Well Drilling	21534.55802	953.7352345
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2019	014000	Construction	C.1 Well Drilling	26533.65273	1174.8252
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%	2019	015000	Construction	C.1 Well Drilling	32532.56637	1440.133159
	1000	1.25%	1.28%	No Reduct	No Reduct	2.43%	2.43%	2020	001000	Construction	C.1 Well Drilling	473.7173815	31.85752448
	2000	5.80%	5.97%	No Reduct	No Reduct	11.41%	11.41%	2020	002000	Construction	C.1 Well Drilling	619.9858554	41.56484144
	3000	4.03%	4.16%	No Reduct	No Reduct	7.98%	7.98%	2020	003000	Construction	C.1 Well Drilling	766.2543294	51.27215841
	4000	0.76%	0.79%	No Reduct	No Reduct	1.52%	1.52%	2020	004000	Construction	C.1 Well Drilling	912.5228033	60.97947537
	5000	1.23%	1.28%	No Reduct	No Reduct	2.47%	2.47%	2020	005000	Construction	C.1 Well Drilling	1205.059751	80.39410929
	6000	0.15%	0.18%	No Reduct	No Reduct	0.36%	0.36%	2020	006000	Construction	C.1 Well Drilling	4023.834188	181.5986855

855.7315035	1.008083983	40.71607697	37.45879081	2017	002000	Construction	C.1 Well Drilling	54.69708738	3.422536036	No Reduction	No Reduction
1060.969963	1.249762162	50.0321686	46.02959511	2017	003000	Construction	C.1 Well Drilling	46.96080267	2.939313014	No Reduction	No Reduction
1266.208422	1.491440341	59.34826023	54.60039941	2017	004000	Construction	C.1 Well Drilling	10.60972335	0.664203275	No Reduction	No Reduction
1676.68534	1.974796699	77.98044349	71.74200801	2017	005000	Construction	C.1 Well Drilling	22.61320681	1.416022081	No Reduction	No Reduction
3961.954751	4.661204512	174.9119482	160.9189923	2017	006000	Construction	C.1 Well Drilling	7.370045997	0.454123112	No Reduction	No Reduction
4747.390168	5.585171161	209.2039957	192.4676761	2017	007000	Construction	C.1 Well Drilling	5.383511842	0.33175236	No Reduction	No Reduction
5925.543293	6.971121135	260.6420671	239.7907017	2017	008000	Construction	C.1 Well Drilling	3.012256811	0.185646037	No Reduction	No Reduction
7103.696418	8.357071108	312.0801384	287.1137273	2017	009000	Construction	C.1 Well Drilling	5.294631188	0.32633213	No Reduction	No Reduction
9067.284959	10.66698773	397.8102572	365.9854367	2017	010000	Construction	C.1 Well Drilling	5.965657123	0.367718698	No Reduction	No Reduction
13484.46933	15.8601023	577.269724	531.0881461	2017	011000	Construction	C.1 Well Drilling	6.797567742	0.41937216	No Reduction	No Reduction
16846.89225	19.81478506	720.7242274	663.0662892	2017	012000	Construction	C.1 Well Drilling	11.1610937	0.688605886	No Reduction	No Reduction
20689.6613	24.3344225	884.6722312	813.8984527	2017	013000	Construction	C.1 Well Drilling	11.97830446	0.739048092	No Reduction	No Reduction
25493.12261	29.9839693	1089.607236	1002.438657	2017	014000	Construction	C.1 Well Drilling	4.083666489	0.25196411	No Reduction	No Reduction
31257.27618	36.76342545	1335.529242	1228.686903	2017	015000	Construction	C.1 Well Drilling	0.998259416	0.061594316	No Reduction	No Reduction
650.4930445	0.766405804	25.96951865	23.89195716	2018	001000	Construction	C.1 Well Drilling	7.719966757	0.485934201	No Reduction	No Reduction
855.7315035	1.008083983	33.66149016	30.96857094	2018	002000	Construction	C.1 Well Drilling	46.969988	2.959914507	No Reduction	No Reduction
1060.969963	1.249762162	41.35346166	38.04518473	2018	003000	Construction	C.1 Well Drilling	40.36526266	2.545515365	No Reduction	No Reduction
1266.208422	1.491440341	49.04543317	45.12179851	2018	004000	Construction	C.1 Well Drilling	9.10242291	0.574296229	No Reduction	No Reduction
1676.68534	1.974796699	64.42937617	59.27502608	2018	005000	Construction	C.1 Well Drilling	19.45108363	1.227982417	No Reduction	No Reduction
3961.954751	4.661204512	163.1964128	150.1406998	2018	006000	Construction	C.1 Well Drilling	7.104894468	0.431144954	No Reduction	No Reduction
4747.390168	5.585171161	195.2569746	179.6364166	2018	007000	Construction	C.1 Well Drilling	5.190627857	0.315052251	No Reduction	No Reduction
5925.543293	6.971121135	243.3478172	223.8799918	2018	008000	Construction	C.1 Well Drilling	2.904779758	0.176349284	No Reduction	No Reduction
7103.696418	8.357071108	291.4386598	268.123567	2018	009000	Construction	C.1 Well Drilling	5.106245678	0.310047202	No Reduction	No Reduction
9067.284959	10.66698773	371.5900642	341.862859	2018	010000	Construction	C.1 Well Drilling	5.754042409	0.349438625	No Reduction	No Reduction
13484.46933	15.8601023	544.5728937	501.0070622	2018	011000	Construction	C.1 Well Drilling	6.593629725	0.40156009	No Reduction	No Reduction
16846.89225	19.81478506	679.9927161	625.5932988	2018	012000	Construction	C.1 Well Drilling	10.82686236	0.659427943	No Reduction	No Reduction
20689.6613	24.3344225	834.7582274	767.9775692	2018	013000	Construction	C.1 Well Drilling	11.62009611	0.70778826	No Reduction	No Reduction
25493.12261	29.9839693	1028.215117	945.9579072	2018	014000	Construction	C.1 Well Drilling	3.961684902	0.241322308	No Reduction	No Reduction
31257.27618	36.76342545	1260.363384	1159.534313	2018	015000	Construction	C.1 Well Drilling	0.968467889	0.058995892	No Reduction	No Reduction
650.4930445	0.766405804	23.45834049	21.58167325	2019	001000	Construction	C.1 Well Drilling	7.103559416	0.453001648	No Reduction	No Reduction
855.7315035	1.008083983	30.43243937	27.99784422	2019	002000	Construction	C.1 Well Drilling	43.34234672	2.768926212	No Reduction	No Reduction
1060.969963	1.249762162	37.40653826	34.4140152	2019	003000	Construction	C.1 Well Drilling	37.19369012	2.378763696	No Reduction	No Reduction
1266.208422	1.491440341	44.38063715	40.83018618	2019	004000	Construction	C.1 Well Drilling	8.380920242	0.536418324	No Reduction	No Reduction
1676.68534	1.974796699	58.32883492	53.66252813	2019	005000	Construction	C.1 Well Drilling	17.96145663	1.150733734	No Reduction	No Reduction
3961.954751	4.661204512	124.3601064	114.4112979	2019	006000	Construction	C.1 Well Drilling	6.0243815	0.32751134	No Reduction	No Reduction
4747.390168	5.585171161	148.7249189	136.8269254	2019	007000	Construction	C.1 Well Drilling	4.400810176	0.239225669	No Reduction	No Reduction
5925.543293	6.971121135	185.2721377	170.4503667	2019	008000	Construction	C.1 Well Drilling	2.462542491	0.133850545	No Reduction	No Reduction
7103.696418	8.357071108	221.8193565	204.0738079	2019	009000	Construction	C.1 Well Drilling	4.328565682	0.235263521	No Reduction	No Reduction
9067.284959	10.66698773	282.7313878	260.1128767	2019	010000	Construction	C.1 Well Drilling	4.877357926	0.265074011	No Reduction	No Reduction
13484.46933	15.8601023	411.1971285	378.3013582	2019	011000	Construction	C.1 Well Drilling	5.581199045	0.302107635	No Reduction	No Reduction
16846.89225	19.81478506	513.3623997	472.2934077	2019	012000	Construction	C.1 Well Drilling	9.164113518	0.496033741	No Reduction	No Reduction
20689.6613	24.3344225	630.1227096	579.7128928	2019	013000	Construction	C.1 Well Drilling	9.83527049	0.532349776	No Reduction	No Reduction
25493.12261	29.9839693	776.073097	713.9872492	2019	014000	Construction	C.1 Well Drilling	3.353105516	0.181488763	No Reduction	No Reduction
31257.27618	36.76342545	951.2135618	875.1164769	2019	015000	Construction	C.1 Well Drilling	0.819681493	0.044365064	No Reduction	No Reduction
650.4930445	0.766405804	19.78680255	18.20385834	2020	001000	Construction	C.1 Well Drilling	5.915445899	0.406653185	No Reduction	No Reduction
855.7315035	1.008083983	25.64783746	23.59601046	2020	002000	Construction	C.1 Well Drilling	35.97082896	2.481059055	No Reduction	No Reduction
1060.969963	1.249762162	31.50887236	28.98816257	2020	003000	Construction	C.1 Well Drilling	30.85328226	2.132493324	No Reduction	No Reduction
1266.208422	1.491440341	37.36990727	34.38031469	2020	004000	Construction	C.1 Well Drilling	6.967056665	0.482223416	No Reduction	No Reduction
1676.68534	1.974796699	49.09197709	45.16461892	2020	005000	Construction	C.1 Well Drilling	14.85097436	1.029756686	No Reduction	No Reduction
3961.954751	4.661204512	119.4004227	109.8483889	2020	006000	Construction	C.1 Well Drilling	5.909343024	0.318771006	No Reduction	No Reduction

4.647219192	4.2754419	1581	2017	43.2380476	2.70551474	No Reduction	No Reduction	3.67362677	3.37973682
3.990510207	3.671269371	1131	2017	26.5563339	1.66218151	No Reduction	No Reduction	2.25663352	2.07610283
0.901656816	0.829524356	219	2017	1.16176471	0.07273026	No Reduction	No Reduction	0.09873142	0.09083292
1.922015257	1.768254046	363	2017	4.10429704	0.25700801	No Reduction	No Reduction	0.34884577	0.32093811
0.627892577	0.577661172	89	2017	0.32796705	0.02020848	No Reduction	No Reduction	0.02794122	0.02570592
0.45873812	0.422039063	55	2017	0.14804658	0.00912319	No Reduction	No Reduction	0.0126153	0.01160607
0.25672962	0.236191255	25	2017	0.03765321	0.00232058	No Reduction	No Reduction	0.00320912	0.00295239
0.451311836	0.415206903	37	2017	0.09795068	0.00603714	No Reduction	No Reduction	0.00834927	0.00768133
0.508582859	0.467896227	33	2017	0.09843334	0.00606736	No Reduction	No Reduction	0.00839162	0.00772029
0.581163514	0.534670423	31	2017	0.1053623	0.00650027	No Reduction	No Reduction	0.00900803	0.00828739
0.954302864	0.877958621	41	2017	0.22880242	0.01411642	No Reduction	No Reduction	0.01956321	0.01799815
1.024237568	0.942298579	36	2017	0.21560948	0.01330287	No Reduction	No Reduction	0.01843628	0.01696137
0.349202254	0.321266073	10	2017	0.02041833	0.00125982	No Reduction	No Reduction	0.00174601	0.00160633
0.085366451	0.078537134	2	2017	0.00099826	6.1594E-05	No Reduction	No Reduction	8.5366E-05	7.8537E-05
0.630838175	0.580371107	325	2018	1.2544946	0.07896431	No Reduction	No Reduction	0.1025112	0.0943103
3.838665747	3.531572687	1582	2018	37.1532605	2.34129237	No Reduction	No Reduction	3.03638461	2.793474
3.299160116	3.03522729	1133	2018	22.8669213	1.44203445	No Reduction	No Reduction	1.86897421	1.71945626
0.744006916	0.684486432	219	2018	0.99671531	0.06288544	No Reduction	No Reduction	0.08146876	0.07495126
1.589991985	1.462792634	364	2018	3.54009722	0.2234928	No Reduction	No Reduction	0.28937854	0.26622826
0.584953846	0.538157539	89	2018	0.3161678	0.01918595	No Reduction	No Reduction	0.02603045	0.02394801
0.427510249	0.393309423	55	2018	0.14274227	0.00866394	No Reduction	No Reduction	0.01175653	0.01081601
0.239333803	0.220187103	25	2018	0.03630975	0.00220437	No Reduction	No Reduction	0.00299167	0.00275234
0.420826301	0.38716021	37	2018	0.09446555	0.00573587	No Reduction	No Reduction	0.00778529	0.00716246
0.474345686	0.436398028	33	2018	0.0949417	0.00576574	No Reduction	No Reduction	0.0078267	0.00720057
0.547420051	0.503626438	31	2018	0.10220126	0.00622418	No Reduction	No Reduction	0.00848501	0.00780621
0.899014066	0.827092927	41	2018	0.22195068	0.01351827	No Reduction	No Reduction	0.01842979	0.01695541
0.964992935	0.887793516	36	2018	0.20916173	0.01274019	No Reduction	No Reduction	0.01736987	0.01598028
0.329030505	0.302708064	10	2018	0.01980842	0.00120661	No Reduction	No Reduction	0.00164515	0.00151354
0.080440493	0.074005253	2	2018	0.00096847	5.8996E-05	No Reduction	No Reduction	8.044E-05	7.4005E-05
0.5689806	0.523462139	325	2019	1.15432841	0.07361277	No Reduction	No Reduction	0.09245935	0.0850626
3.47397377	3.19605605	1586	2019	34.370481	2.19575849	No Reduction	No Reduction	2.7548612	2.53447245
2.982416498	2.743823164	1134	2019	21.0888223	1.34875902	No Reduction	No Reduction	1.69103015	1.55574773
0.672230227	0.618451872	219	2019	0.91771077	0.05873781	No Reduction	No Reduction	0.07360921	0.06772048
1.441225366	1.325927344	365	2019	3.27796583	0.21000891	No Reduction	No Reduction	0.26302363	0.24198174
0.445080106	0.409473698	89	2019	0.26808498	0.01457425	No Reduction	No Reduction	0.01980606	0.01822158
0.325139566	0.299128396	55	2019	0.12102228	0.00657871	No Reduction	No Reduction	0.00894134	0.00822603
0.181941933	0.167386582	25	2019	0.03078178	0.00167313	No Reduction	No Reduction	0.00227427	0.00209233
0.319816791	0.294231457	37	2019	0.08007847	0.00435238	No Reduction	No Reduction	0.00591661	0.00544328
0.360371961	0.331542202	33	2019	0.08047641	0.00437372	No Reduction	No Reduction	0.00594614	0.00547045
0.41272508	0.379707066	31	2019	0.08650859	0.00468267	No Reduction	No Reduction	0.00639724	0.00588546
0.677692046	0.623476672	41	2019	0.18786433	0.01016869	No Reduction	No Reduction	0.01389269	0.01278127
0.727335296	0.669148484	36	2019	0.17703487	0.0095823	No Reduction	No Reduction	0.01309204	0.01204467
0.247971012	0.22813333	10	2019	0.01676553	0.00090744	No Reduction	No Reduction	0.00123986	0.00114067
0.060618207	0.05576875	2	2019	0.00081968	4.4365E-05	No Reduction	No Reduction	6.0618E-05	5.5769E-05
0.480681183	0.442226677	326	2020	0.96421768	0.06628447	No Reduction	No Reduction	0.07835103	0.07208295
2.927082251	2.692915824	1588	2020	28.5608382	1.96996089	No Reduction	No Reduction	2.32410331	2.13817516
2.512846738	2.311818987	1136	2020	17.5246643	1.21125621	No Reduction	No Reduction	1.42729695	1.31311318
0.567769657	0.522348138	220	2020	0.76637623	0.05304458	No Reduction	No Reduction	0.06245466	0.0574583
1.211173075	1.114279234	365	2020	2.71030282	0.1879306	No Reduction	No Reduction	0.22103909	0.20335596
0.426687629	0.392552619	89	2020	0.26296576	0.01418531	No Reduction	No Reduction	0.0189876	0.01746859

49.61718908	1581	0.031383421	218.8679802	2017
30.47514894	1131	0.026945313	187.9166125	2017
1.333226386	219	0.006087792	42.45625945	2017
4.710150813	363	0.012975622	90.49198835	2017
0.376116745	89	0.004226031	29.4723391	2017
0.169785064	55	0.003087001	21.5287461	2017
0.043182906	25	0.001727316	12.04630341	2017
0.11233709	37	0.003036138	21.17402346	2017
0.112892318	33	0.003420979	23.85790992	2017
0.120870603	31	0.003899052	27.19198661	2017
0.26248205	41	0.006402001	44.64755655	2017
0.247348622	36	0.006870795	47.91692476	2017
0.023424164	10	0.002342416	16.33601216	2017
0.00114522	2	0.00057261	3.993382776	2017
1.435970109	325	0.00441837	30.81370936	2018
42.53093749	1582	0.026884284	187.4909975	2018
26.17792996	1133	0.023104969	161.1340543	2018
1.141069503	219	0.005210363	36.33707176	2018
4.052968561	364	0.011134529	77.65220535	2018
0.3613842	89	0.004060497	28.31790353	2018
0.163162735	55	0.002966595	20.68903478	2018
0.041505786	25	0.001660231	11.57845394	2018
0.107986705	37	0.00291856	20.35403458	2018
0.108534141	33	0.003288913	22.93688177	2018
0.116910453	31	0.003771305	26.3010806	2018
0.25389874	41	0.006192652	43.18755634	2018
0.239271792	36	0.006646439	46.35226318	2018
0.022660189	10	0.002266019	15.80321551	2018
0.001107904	2	0.000553952	3.863262205	2018
1.32040052	325	0.004062771	28.33376378	2019
39.32110064	1586	0.024792623	172.9037553	2019
24.12861147	1134	0.021277435	148.3888328	2019
1.050057783	219	0.004794784	33.43882638	2019
3.750998371	365	0.010276708	71.66976065	2019
0.302465296	89	0.003398486	23.70104466	2019
0.136542324	55	0.002482588	17.31356666	2019
0.034729187	25	0.001389167	9.68805404	2019
0.090347451	37	0.002441823	17.02927358	2019
0.090796264	33	0.002751402	19.18827719	2019
0.097588492	31	0.003148016	21.95426275	2019
0.211925706	41	0.00516892	36.04804566	2019
0.1997092	36	0.005547478	38.68811005	2019
0.018912826	10	0.001891283	13.18980517	2019
0.000924665	2	0.000462332	3.224306029	2019
1.108853184	326	0.00340139	23.72129479	2020
32.85490239	1588	0.020689485	144.2884693	2020
20.16321748	1136	0.017749311	123.783696	2020
0.881875471	220	0.004008525	27.95545244	2020
3.119272502	365	0.008545952	59.59946967	2020
0.296138674	89	0.003327401	23.20529339	2020

	7000	0.09%	0.11%	No Reduct	No Reduct	0.22%	0.22%	2020	007000	Construction	C.1 Well Drilling	4821.618634	217.3713079
2020	8000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2020	008000	Construction	C.1 Well Drilling	6018.295302	271.0302415
	9000	0.06%	0.07%	No Reduct	No Reduct	0.14%	0.14%	2020	009000	Construction	C.1 Well Drilling	7214.971971	324.6891751
	10000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2020	010000	Construction	C.1 Well Drilling	9209.433085	414.1207311
	11000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2020	011000	Construction	C.1 Well Drilling	13837.57353	609.3806479
	12000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2020	012000	Construction	C.1 Well Drilling	17288.23892	761.0419164
	13000	0.05%	0.06%	No Reduct	No Reduct	0.12%	0.12%	2020	013000	Construction	C.1 Well Drilling	21231.85651	934.3690805
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2020	014000	Construction	C.1 Well Drilling	26161.3785	1151.028036
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%	2020	015000	Construction	C.1 Well Drilling	32076.80488	1411.018782
	1000	1.25%	1.27%	No Reduct	No Reduct	2.43%	2.43%	2021	001000	Construction	C.1 Well Drilling	454.0675786	30.83737278
	2000	5.80%	5.97%	No Reduct	No Reduct	11.41%	11.41%	2021	002000	Construction	C.1 Well Drilling	594.768133	40.29517785
	3000	4.03%	4.16%	No Reduct	No Reduct	7.98%	7.98%	2021	003000	Construction	C.1 Well Drilling	735.4686874	49.75298292
	4000	0.76%	0.79%	No Reduct	No Reduct	1.52%	1.52%	2021	004000	Construction	C.1 Well Drilling	876.1692418	59.21078799
	5000	1.23%	1.28%	No Reduct	No Reduct	2.47%	2.47%	2021	005000	Construction	C.1 Well Drilling	1157.570351	78.12639812
	6000	0.15%	0.18%	No Reduct	No Reduct	0.36%	0.36%	2021	006000	Construction	C.1 Well Drilling	3979.529499	180.8457994
	7000	0.09%	0.11%	No Reduct	No Reduct	0.22%	0.22%	2021	007000	Construction	C.1 Well Drilling	4769.042215	216.5221677
2021	8000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2021	008000	Construction	C.1 Well Drilling	5953.31129	270.0367203
	9000	0.06%	0.07%	No Reduct	No Reduct	0.14%	0.14%	2021	009000	Construction	C.1 Well Drilling	7137.580365	323.5512728
	10000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2021	010000	Construction	C.1 Well Drilling	9111.362157	412.7421937
	11000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2021	011000	Construction	C.1 Well Drilling	13724.00099	609.9411943
	12000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2021	012000	Construction	C.1 Well Drilling	17147.00976	761.8105034
	13000	0.05%	0.06%	No Reduct	No Reduct	0.12%	0.12%	2021	013000	Construction	C.1 Well Drilling	21059.01979	935.3754282
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2021	014000	Construction	C.1 Well Drilling	25949.03232	1152.331584
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%	2021	015000	Construction	C.1 Well Drilling	31817.04735	1412.678971
	1000	1.24%	1.27%	No Reduct	No Reduct	2.42%	2.42%	2022	001000	Construction	C.1 Well Drilling	341.9227276	25.77051109
	2000	5.81%	5.98%	No Reduct	No Reduct	11.43%	11.43%	2022	002000	Construction	C.1 Well Drilling	446.6023834	33.65855547
	3000	4.03%	4.16%	No Reduct	No Reduct	7.98%	7.98%	2022	003000	Construction	C.1 Well Drilling	551.2820392	41.54659984
	4000	0.76%	0.79%	No Reduct	No Reduct	1.51%	1.51%	2022	004000	Construction	C.1 Well Drilling	655.961695	49.43464421
	5000	1.23%	1.28%	No Reduct	No Reduct	2.47%	2.47%	2022	005000	Construction	C.1 Well Drilling	865.3210066	65.21073296
	6000	0.15%	0.18%	No Reduct	No Reduct	0.36%	0.36%	2022	006000	Construction	C.1 Well Drilling	3920.329107	178.9607315
	7000	0.09%	0.11%	No Reduct	No Reduct	0.22%	0.22%	2022	007000	Construction	C.1 Well Drilling	4698.818176	214.3316023
2022	8000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2022	008000	Construction	C.1 Well Drilling	5866.55178	267.3879083
	9000	0.06%	0.07%	No Reduct	No Reduct	0.14%	0.14%	2022	009000	Construction	C.1 Well Drilling	7034.285384	320.4442144
	10000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2022	010000	Construction	C.1 Well Drilling	8980.508058	408.8713912
	11000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2022	011000	Construction	C.1 Well Drilling	13571.14572	607.5116973
	12000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2022	012000	Construction	C.1 Well Drilling	16956.96121	758.8630271
	13000	0.05%	0.06%	No Reduct	No Reduct	0.11%	0.11%	2022	013000	Construction	C.1 Well Drilling	20826.46463	931.8359755
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2022	014000	Construction	C.1 Well Drilling	25663.3439	1148.052161
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%	2022	015000	Construction	C.1 Well Drilling	31467.59903	1407.511583
	1000	1.25%	1.27%	No Reduct	No Reduct	2.43%	2.43%	2023	001000	Construction	C.1 Well Drilling	313.9175079	24.67658143
	2000	5.81%	5.98%	No Reduct	No Reduct	11.43%	11.43%	2023	002000	Construction	C.1 Well Drilling	410.0209101	32.26580395
	3000	4.03%	4.16%	No Reduct	No Reduct	7.97%	7.97%	2023	003000	Construction	C.1 Well Drilling	506.1243122	39.85502648
	4000	0.76%	0.79%	No Reduct	No Reduct	1.52%	1.52%	2023	004000	Construction	C.1 Well Drilling	602.2277144	47.444249
	5000	1.23%	1.28%	No Reduct	No Reduct	2.46%	2.46%	2023	005000	Construction	C.1 Well Drilling	794.4345188	62.62269405
	6000	0.15%	0.17%	No Reduct	No Reduct	0.36%	0.36%	2023	006000	Construction	C.1 Well Drilling	3880.922951	178.4587114
	7000	0.09%	0.11%	No Reduct	No Reduct	0.22%	0.22%	2023	007000	Construction	C.1 Well Drilling	4651.986081	213.7686709
2023	8000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2023	008000	Construction	C.1 Well Drilling	5808.580775	266.7336101
	9000	0.06%	0.07%	No Reduct	No Reduct	0.14%	0.14%	2023	009000	Construction	C.1 Well Drilling	6965.17547	319.6985494
	10000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2023	010000	Construction	C.1 Well Drilling	8892.833295	407.9734481
	11000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2023	011000	Construction	C.1 Well Drilling	13468.3814	608.4672392

4747.390168	5.585171161	142.8397677	131.4125863	2020	007000	Construction	C.1 Well Drilling	4.317286988	0.232891978	No Reduction	No Reduction
5925.543293	6.971121135	177.9987851	163.7588823	2020	008000	Construction	C.1 Well Drilling	2.416093406	0.130335185	No Reduction	No Reduction
7103.696418	8.357071108	213.1578026	196.1051784	2020	009000	Construction	C.1 Well Drilling	4.24725714	0.229118197	No Reduction	No Reduction
9067.284959	10.66698773	271.756165	250.0156718	2020	010000	Construction	C.1 Well Drilling	4.786155571	0.258191164	No Reduction	No Reduction
13484.46933	15.8601023	397.7571575	365.9365849	2020	011000	Construction	C.1 Well Drilling	5.494064866	0.295486094	No Reduction	No Reduction
16846.89225	19.81478506	496.6455224	456.9138806	2020	012000	Construction	C.1 Well Drilling	9.021433335	0.485201686	No Reduction	No Reduction
20689.6613	24.3344225	609.6607966	560.8879329	2020	013000	Construction	C.1 Well Drilling	9.682453173	0.520756616	No Reduction	No Reduction
25493.12261	29.9839693	750.9298894	690.8554982	2020	014000	Construction	C.1 Well Drilling	3.301094009	0.177545422	No Reduction	No Reduction
31257.27618	36.76342545	920.4528007	846.8165766	2020	015000	Construction	C.1 Well Drilling	0.806984134	0.043402859	No Reduction	No Reduction
650.4930445	0.766405804	18.29023578	16.82701692	2021	001000	Construction	C.1 Well Drilling	5.66156802	0.393040762	No Reduction	No Reduction
855.7315035	1.008083983	23.74861487	21.84872568	2021	002000	Construction	C.1 Well Drilling	34.49936106	2.404688054	No Reduction	No Reduction
1060.969963	1.249762162	29.20699396	26.87043444	2021	003000	Construction	C.1 Well Drilling	29.64736364	2.071660882	No Reduction	No Reduction
1266.208422	1.491440341	34.66537304	31.8921432	2021	004000	Construction	C.1 Well Drilling	6.679465162	0.467534347	No Reduction	No Reduction
1676.68534	1.974796699	45.58213122	41.93556072	2021	005000	Construction	C.1 Well Drilling	14.28334912	1.001946391	No Reduction	No Reduction
3961.954751	4.661204512	115.4316973	106.1971615	2021	006000	Construction	C.1 Well Drilling	5.8355114	0.316973246	No Reduction	No Reduction
4747.390168	5.585171161	138.135017	127.0842157	2021	007000	Construction	C.1 Well Drilling	4.263804643	0.231634235	No Reduction	No Reduction
5925.543293	6.971121135	172.1899967	158.4147969	2021	008000	Construction	C.1 Well Drilling	2.38642004	0.129662627	No Reduction	No Reduction
7103.696418	8.357071108	206.2449763	189.7453782	2021	009000	Construction	C.1 Well Drilling	4.195396265	0.227972759	No Reduction	No Reduction
9067.284959	10.66698773	263.0032757	241.9630136	2021	010000	Construction	C.1 Well Drilling	4.728085187	0.256945692	No Reduction	No Reduction
13484.46933	15.8601023	387.1571718	356.184598	2021	011000	Construction	C.1 Well Drilling	5.440798614	0.295314264	No Reduction	No Reduction
16846.89225	19.81478506	483.4676901	444.7902749	2021	012000	Construction	C.1 Well Drilling	8.934314843	0.484963161	No Reduction	No Reduction
20689.6613	24.3344225	593.5368539	546.0539056	2021	013000	Construction	C.1 Well Drilling	9.589228263	0.520535512	No Reduction	No Reduction
25493.12261	29.9839693	731.1233086	672.6334439	2021	014000	Construction	C.1 Well Drilling	3.269388303	0.177479874	No Reduction	No Reduction
31257.27618	36.76342545	896.2270543	824.5288899	2021	015000	Construction	C.1 Well Drilling	0.799248514	0.043388746	No Reduction	No Reduction
650.4930445	0.766405804	13.75387874	12.65356844	2022	001000	Construction	C.1 Well Drilling	4.256898074	0.327968626	No Reduction	No Reduction
855.7315035	1.008083983	17.82438787	16.39843684	2022	002000	Construction	C.1 Well Drilling	25.94758876	2.011934101	No Reduction	No Reduction
1060.969963	1.249762162	21.89489701	20.14330525	2022	003000	Construction	C.1 Well Drilling	22.20884177	1.728881402	No Reduction	No Reduction
1266.208422	1.491440341	25.96540614	23.88817365	2022	004000	Construction	C.1 Well Drilling	4.993225868	0.389756297	No Reduction	No Reduction
1676.68534	1.974796699	34.10642441	31.37791045	2022	005000	Construction	C.1 Well Drilling	10.6612702	0.835054481	No Reduction	No Reduction
3961.954751	4.661204512	110.3747683	101.5447868	2022	006000	Construction	C.1 Well Drilling	5.74009086	0.313199438	No Reduction	No Reduction
4747.390168	5.585171161	132.1412517	121.5699516	2022	007000	Construction	C.1 Well Drilling	4.194728124	0.228947359	No Reduction	No Reduction
5925.543293	6.971121135	164.7909768	151.6076987	2022	008000	Construction	C.1 Well Drilling	2.348119798	0.128198458	No Reduction	No Reduction
7103.696418	8.357071108	197.4407019	181.6454457	2022	009000	Construction	C.1 Well Drilling	4.128487807	0.225445372	No Reduction	No Reduction
9067.284959	10.66698773	251.8569104	231.7083575	2022	010000	Construction	C.1 Well Drilling	4.653202328	0.254154757	No Reduction	No Reduction
13484.46933	15.8601023	373.7364222	343.8375084	2022	011000	Construction	C.1 Well Drilling	5.372141836	0.293697432	No Reduction	No Reduction
16846.89225	19.81478506	466.7849399	429.4421447	2022	012000	Construction	C.1 Well Drilling	8.822058448	0.482363274	No Reduction	No Reduction
20689.6613	24.3344225	573.126103	527.2760147	2022	013000	Construction	C.1 Well Drilling	9.469130536	0.517789127	No Reduction	No Reduction
25493.12261	29.9839693	706.0525568	649.5683523	2022	014000	Construction	C.1 Well Drilling	3.228550825	0.176555932	No Reduction	No Reduction
31257.27618	36.76342545	865.5643015	796.3191573	2022	015000	Construction	C.1 Well Drilling	0.789286396	0.043165288	No Reduction	No Reduction
650.4930445	0.766405804	12.11604117	11.14675788	2023	001000	Construction	C.1 Well Drilling	3.914362062	0.314538952	No Reduction	No Reduction
855.7315035	1.008083983	15.71365812	14.45656547	2023	002000	Construction	C.1 Well Drilling	23.83131917	1.92942045	No Reduction	No Reduction
1060.969963	1.249762162	19.31127507	17.76637307	2023	003000	Construction	C.1 Well Drilling	20.37699223	1.657462194	No Reduction	No Reduction
1266.208422	1.491440341	22.90889202	21.07618066	2023	004000	Construction	C.1 Well Drilling	4.59814946	0.375201803	No Reduction	No Reduction
1676.68534	1.974796699	30.10412592	27.69579585	2023	005000	Construction	C.1 Well Drilling	9.773268504	0.800714138	No Reduction	No Reduction
3961.954751	4.661204512	106.7825202	98.23991859	2023	006000	Construction	C.1 Well Drilling	5.673894824	0.311853772	No Reduction	No Reduction
4747.390168	5.585171161	127.8743862	117.6444353	2023	007000	Construction	C.1 Well Drilling	4.146709435	0.228004545	No Reduction	No Reduction
5925.543293	6.971121135	159.5121851	146.7512103	2023	008000	Construction	C.1 Well Drilling	2.321439638	0.127693503	No Reduction	No Reduction
7103.696418	8.357071108	191.1499841	175.8579854	2023	009000	Construction	C.1 Well Drilling	4.081813004	0.224584394	No Reduction	No Reduction
9067.284959	10.66698773	243.879649	224.3692771	2023	010000	Construction	C.1 Well Drilling	4.600883129	0.253217338	No Reduction	No Reduction
13484.46933	15.8601023	363.9836776	334.8649834	2023	011000	Construction	C.1 Well Drilling	5.323489279	0.293719463	No Reduction	No Reduction

0.311804447	0.286860087	55	2020	0.11872539	0.00640453	No Reduction	No Reduction	0.00857462	0.00788865
0.174536724	0.160573789	25	2020	0.03020117	0.00162919	No Reduction	No Reduction	0.00218171	0.00200717
0.306866969	0.282317621	37	2020	0.07857426	0.00423869	No Reduction	No Reduction	0.00567704	0.00522288
0.345862489	0.318193488	33	2020	0.07897157	0.00426015	No Reduction	No Reduction	0.00570673	0.00525019
0.398635415	0.366744575	31	2020	0.08515801	0.00458003	No Reduction	No Reduction	0.00617885	0.00568454
0.654639107	0.602267969	41	2020	0.18493938	0.00994663	No Reduction	No Reduction	0.0134201	0.01234649
0.702659448	0.646446703	36	2020	0.17428416	0.00937362	No Reduction	No Reduction	0.01264787	0.01163604
0.239576803	0.220410658	10	2020	0.01650547	0.00088773	No Reduction	No Reduction	0.00119788	0.00110205
0.05856979	0.053884206	2	2020	0.00080698	4.3403E-05	No Reduction	No Reduction	5.857E-05	5.3884E-05
0.443658569	0.408165874	326	2021	0.92283559	0.06406564	No Reduction	No Reduction	0.07231635	0.06653104
2.709674683	2.49290085	1590	2021	27.426992	1.911727	No Reduction	No Reduction	2.15419137	1.98185618
2.33191901	2.145365478	1139	2021	16.8841736	1.17981087	No Reduction	No Reduction	1.32802788	1.22178564
0.525889024	0.483817951	220	2021	0.73474117	0.05142878	No Reduction	No Reduction	0.05784779	0.05321997
1.125969436	1.035891886	366	2021	2.61385289	0.18335619	No Reduction	No Reduction	0.20605241	0.18956822
0.411886292	0.378935389	89	2021	0.25968026	0.01410531	No Reduction	No Reduction	0.01832894	0.01686262
0.301082161	0.276995584	55	2021	0.11725463	0.00636994	No Reduction	No Reduction	0.00827976	0.00761738
0.168587654	0.155100645	25	2021	0.02983025	0.00162078	No Reduction	No Reduction	0.00210735	0.00193876
0.296469729	0.27275216	37	2021	0.07761483	0.0042175	No Reduction	No Reduction	0.00548469	0.00504591
0.334220653	0.307482999	33	2021	0.07801341	0.0042396	No Reduction	No Reduction	0.00551464	0.00507347
0.387430006	0.356435599	31	2021	0.08433238	0.00457737	No Reduction	No Reduction	0.00600517	0.00552475
0.63631322	0.585408153	41	2021	0.18315345	0.00994174	No Reduction	No Reduction	0.01304442	0.01200087
0.683049819	0.628405844	36	2021	0.17260611	0.00936964	No Reduction	No Reduction	0.0122949	0.01131131
0.232907822	0.214275195	10	2021	0.01634694	0.0008874	No Reduction	No Reduction	0.00116454	0.00107138
0.056942727	0.052387308	2	2021	0.00079925	4.3389E-05	No Reduction	No Reduction	5.6943E-05	5.2387E-05
0.333122378	0.30647258	326	2022	0.69387439	0.05345889	No Reduction	No Reduction	0.05429895	0.04995503
2.037070703	1.874105153	1595	2022	20.693202	1.60451745	No Reduction	No Reduction	1.62456389	1.49459886
1.747027263	1.607265073	1140	2022	12.6590398	0.9854624	No Reduction	No Reduction	0.99580554	0.91614109
0.393316707	0.361851408	220	2022	0.54925485	0.04287319	No Reduction	No Reduction	0.04326484	0.03980365
0.841234767	0.77393599	366	2022	1.95101245	0.15281497	No Reduction	No Reduction	0.15394596	0.14163029
0.393252152	0.36179198	89	2022	0.25543404	0.01393738	No Reduction	No Reduction	0.01749972	0.01609974
0.287586637	0.264579702	55	2022	0.11535502	0.00629605	No Reduction	No Reduction	0.00790863	0.00727594
0.161101775	0.148213636	25	2022	0.0293515	0.00160248	No Reduction	No Reduction	0.00201377	0.00185267
0.283388819	0.260717722	37	2022	0.07637702	0.00417074	No Reduction	No Reduction	0.00524269	0.00482328
0.319576653	0.294010519	33	2022	0.07677784	0.00419355	No Reduction	No Reduction	0.00527301	0.00485117
0.37343964	0.343564462	31	2022	0.0832682	0.00455231	No Reduction	No Reduction	0.00578831	0.00532525
0.61343616	0.564361258	41	2022	0.1808522	0.00988845	No Reduction	No Reduction	0.01257544	0.01156941
0.658573005	0.605887175	36	2022	0.17044435	0.0093202	No Reduction	No Reduction	0.01185431	0.01090597
0.224584366	0.206617616	10	2022	0.01614275	0.00088278	No Reduction	No Reduction	0.00112292	0.00103309
0.054912168	0.050519194	2	2022	0.00078929	4.3165E-05	No Reduction	No Reduction	5.4912E-05	5.0519E-05
0.293913497	0.270400411	327	2023	0.6399982	0.05142712	No Reduction	No Reduction	0.04805486	0.04421047
1.796531708	1.652809266	1598	2023	19.041224	1.54160694	No Reduction	No Reduction	1.43542884	1.3205946
1.539921347	1.416727632	1141	2023	11.6250741	0.94558218	No Reduction	No Reduction	0.87852513	0.80824311
0.348073511	0.320227662	221	2023	0.50809552	0.0414598	No Reduction	No Reduction	0.03846212	0.03538516
0.741407652	0.682095043	366	2023	1.78850814	0.14653069	No Reduction	No Reduction	0.1356776	0.12482339
0.379884427	0.349493673	89	2023	0.25248832	0.01387749	No Reduction	No Reduction	0.01690486	0.01555247
0.277884209	0.255653468	55	2023	0.11403451	0.00627012	No Reduction	No Reduction	0.00764182	0.00703047
0.155707948	0.143251315	25	2023	0.029018	0.00159617	No Reduction	No Reduction	0.00194635	0.00179064
0.273949373	0.252033432	37	2023	0.07551354	0.00415481	No Reduction	No Reduction	0.00506806	0.00466262
0.308991658	0.284272324	33	2023	0.07591457	0.00417809	No Reduction	No Reduction	0.00509836	0.00469049
0.363150729	0.334098665	31	2023	0.08251408	0.00455265	No Reduction	No Reduction	0.00562884	0.00517853

0.133704544	55	0.002430992	16.95373616	2020
0.034012066	25	0.001360483	9.488006052	2020
0.088489983	37	0.002391621	16.67916592	2020
0.088938452	33	0.002695105	18.79565956	2020
0.095916889	31	0.003094093	21.57820589	2020
0.20830612	41	0.005080637	35.43236288	2020
0.196305646	36	0.005452935	38.02876603	2020
0.018591081	10	0.001859108	12.96542001	2020
0.000908957	2	0.000454478	3.169532304	2020
1.059217578	326	0.003249134	22.65945825	2021
31.49291042	1590	0.019806862	138.1330549	2021
19.39201234	1139	0.017025472	118.7356401	2021
0.844017739	220	0.003836444	26.75536231	2021
3.003261485	366	0.008205632	57.22608087	2021
0.292114507	89	0.003282185	22.88996146	2021
0.131904329	55	0.002398261	16.72546886	2021
0.033558379	25	0.001342335	9.361445409	2021
0.087317017	37	0.002359919	16.45807773	2021
0.08776765	33	0.002659626	18.54823009	2021
0.094914915	31	0.003061771	21.35279404	2021
0.20613962	41	0.005027796	35.0638466	2021
0.194270645	36	0.005396407	37.634541	2021
0.01839888	10	0.001839888	12.83137891	2021
0.00089958	2	0.00044979	3.136835413	2021
0.80163222	326	0.002458995	17.14902791	2022
23.92228337	1595	0.014998297	104.5981218	2022
14.64030775	1140	0.012842375	89.56272476	2022
0.635392876	220	0.002888149	20.14195417	2022
2.257773379	366	0.00616878	43.0210698	2022
0.286871139	89	0.003223271	22.47909352	2022
0.129559708	55	0.002355631	16.42817101	2022
0.03296775	25	0.00131871	9.196683645	2022
0.085790457	37	0.002318661	16.1703418	2022
0.086244407	33	0.002613467	18.22631794	2022
0.093608823	31	0.003019639	21.05896555	2022
0.203316087	41	0.004958929	34.58357043	2022
0.191618868	36	0.005322746	37.12083293	2022
0.018148456	10	0.001814846	12.65673295	2022
0.000887364	2	0.000443682	3.09423775	2022
0.739480173	327	0.002261407	15.7710542	2023
22.01825979	1598	0.013778636	96.09220514	2023
13.44918138	1141	0.011787188	82.20384832	2023
0.588017438	221	0.002660712	18.55580819	2023
2.070716424	366	0.005657695	39.45676595	2023
0.28327067	89	0.003182817	22.19696235	2023
0.12794645	55	0.002326299	16.22360989	2023
0.032560514	25	0.001302421	9.083080878	2023
0.084736415	37	0.002290173	15.97166919	2023
0.08519102	33	0.002581546	18.00370224	2023
0.092695572	31	0.00299018	20.85351347	2023

	12000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2023	012000	Construction	C.1 Well Drilling	16829.07493	760.1068205
	13000	0.05%	0.06%	No Reduct	No Reduct	0.11%	0.11%	2023	013000	Construction	C.1 Well Drilling	20669.86753	933.4091991
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2023	014000	Construction	C.1 Well Drilling	25470.85828	1150.037172
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%	2023	015000	Construction	C.1 Well Drilling	31232.04718	1409.99074
	1000	1.25%	1.27%	No Reduct	No Reduct	2.42%	2.42%	2024	001000	Construction	C.1 Well Drilling	279.1916833	23.5733669
	2000	5.81%	5.97%	No Reduct	No Reduct	11.42%	11.42%	2024	002000	Construction	C.1 Well Drilling	364.3215201	30.8390318
	3000	4.02%	4.16%	No Reduct	No Reduct	7.97%	7.97%	2024	003000	Construction	C.1 Well Drilling	449.451357	38.1046967
	4000	0.76%	0.79%	No Reduct	No Reduct	1.52%	1.52%	2024	004000	Construction	C.1 Well Drilling	534.5811938	45.3703616
	5000	1.24%	1.28%	No Reduct	No Reduct	2.47%	2.47%	2024	005000	Construction	C.1 Well Drilling	704.8408675	59.9016914
	6000	0.15%	0.18%	No Reduct	No Reduct	0.36%	0.36%	2024	006000	Construction	C.1 Well Drilling	3872.359814	180.2189412
	7000	0.09%	0.11%	No Reduct	No Reduct	0.22%	0.22%	2024	007000	Construction	C.1 Well Drilling	4642.071342	215.9074549
2024	8000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2024	008000	Construction	C.1 Well Drilling	5796.638635	269.4402256
	9000	0.06%	0.07%	No Reduct	No Reduct	0.14%	0.14%	2024	009000	Construction	C.1 Well Drilling	6951.205927	322.9729963
	10000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2024	010000	Construction	C.1 Well Drilling	8875.484748	412.1942808
	11000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2024	011000	Construction	C.1 Well Drilling	13456.8761	615.976267
	12000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2024	012000	Construction	C.1 Well Drilling	16815.14459	769.5262407
	13000	0.05%	0.06%	No Reduct	No Reduct	0.11%	0.11%	2024	013000	Construction	C.1 Well Drilling	20653.16571	945.0119249
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2024	014000	Construction	C.1 Well Drilling	25450.69211	1164.36903
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%	2024	015000	Construction	C.1 Well Drilling	31207.7238	1427.597556
	1000	1.25%	1.27%	No Reduct	No Reduct	2.43%	2.43%	2025	001000	Construction	C.1 Well Drilling	259.2889181	22.75828312
	2000	5.81%	5.97%	No Reduct	No Reduct	11.42%	11.42%	2025	002000	Construction	C.1 Well Drilling	338.491929	29.80596118
	3000	4.02%	4.16%	No Reduct	No Reduct	7.97%	7.97%	2025	003000	Construction	C.1 Well Drilling	417.6949398	36.85363923
	4000	0.76%	0.79%	No Reduct	No Reduct	1.51%	1.51%	2025	004000	Construction	C.1 Well Drilling	496.8979507	43.90131728
	5000	1.23%	1.28%	No Reduct	No Reduct	2.47%	2.47%	2025	005000	Construction	C.1 Well Drilling	655.3039724	57.99667339
	6000	0.15%	0.18%	No Reduct	No Reduct	0.36%	0.36%	2025	006000	Construction	C.1 Well Drilling	3854.5428	181.183546
	7000	0.09%	0.11%	No Reduct	No Reduct	0.22%	0.22%	2025	007000	Construction	C.1 Well Drilling	4621.115383	217.0972054
2025	8000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2025	008000	Construction	C.1 Well Drilling	5770.974257	270.9676945
	9000	0.06%	0.07%	No Reduct	No Reduct	0.14%	0.14%	2025	009000	Construction	C.1 Well Drilling	6920.833131	324.8381836
	10000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2025	010000	Construction	C.1 Well Drilling	8837.264589	414.6223321
	11000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2025	011000	Construction	C.1 Well Drilling	13418.10925	621.1381394
	12000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2025	012000	Construction	C.1 Well Drilling	16767.21659	776.018862
	13000	0.05%	0.06%	No Reduct	No Reduct	0.11%	0.11%	2025	013000	Construction	C.1 Well Drilling	20594.76783	953.0254021
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2025	014000	Construction	C.1 Well Drilling	25379.20689	1174.283577
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%	2025	015000	Construction	C.1 Well Drilling	31120.53376	1439.793387
	1000	1.25%	1.27%	No Reduct	No Reduct	2.42%	2.42%	2026	001000	Construction	C.1 Well Drilling	248.7099637	22.54780152
	2000	5.80%	5.97%	No Reduct	No Reduct	11.42%	11.42%	2026	002000	Construction	C.1 Well Drilling	324.8772241	29.55905691
	3000	4.03%	4.16%	No Reduct	No Reduct	7.97%	7.97%	2026	003000	Construction	C.1 Well Drilling	401.0444845	36.5703123
	4000	0.76%	0.79%	No Reduct	No Reduct	1.52%	1.52%	2026	004000	Construction	C.1 Well Drilling	477.2117449	43.58156769
	5000	1.23%	1.28%	No Reduct	No Reduct	2.47%	2.47%	2026	005000	Construction	C.1 Well Drilling	629.5462656	57.60407848
	6000	0.15%	0.18%	No Reduct	No Reduct	0.36%	0.36%	2026	006000	Construction	C.1 Well Drilling	2751.246266	132.6260497
	7000	0.09%	0.11%	No Reduct	No Reduct	0.22%	0.22%	2026	007000	Construction	C.1 Well Drilling	3297.453882	158.8484526
2026	8000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2026	008000	Construction	C.1 Well Drilling	4116.765307	198.1820569
	9000	0.06%	0.07%	No Reduct	No Reduct	0.14%	0.14%	2026	009000	Construction	C.1 Well Drilling	4936.076732	237.5156612
	10000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2026	010000	Construction	C.1 Well Drilling	6301.595774	303.0716684
	11000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2026	011000	Construction	C.1 Well Drilling	9527.043073	450.2183429
	12000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2026	012000	Construction	C.1 Well Drilling	11903.7518	562.3944198
	13000	0.05%	0.06%	No Reduct	No Reduct	0.12%	0.12%	2026	013000	Construction	C.1 Well Drilling	14619.99034	690.5956505
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2026	014000	Construction	C.1 Well Drilling	18015.28851	850.8471889
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%	2026	015000	Construction	C.1 Well Drilling	22089.64632	1043.149035
	1000	1.25%	1.27%	No Reduct	No Reduct	2.43%	2.43%	2027	001000	Construction	C.1 Well Drilling	237.4394104	22.28579071

16846.89225	19.81478506	454.6487994	418.2768955	2023	012000	Construction	C.1 Well Drilling	8.742430102	0.482431315	No Reduction	No Reduction
20689.6613	24.3344225	558.2660815	513.604795	2023	013000	Construction	C.1 Well Drilling	9.383876088	0.517887645	No Reduction	No Reduction
25493.12261	29.9839693	687.7876841	632.7646694	2023	014000	Construction	C.1 Well Drilling	3.199543241	0.176596703	No Reduction	No Reduction
31257.27618	36.76342545	843.2136073	775.7565187	2023	015000	Construction	C.1 Well Drilling	0.782206611	0.04317665	No Reduction	No Reduction
650.4930445	0.766405804	10.7065109	9.849990027	2024	001000	Construction	C.1 Well Drilling	3.476153331	0.300028181	No Reduction	No Reduction
855.7315035	1.008083983	13.88905201	12.77792785	2024	002000	Construction	C.1 Well Drilling	21.15678068	1.842501296	No Reduction	No Reduction
1060.969963	1.249762162	17.07159313	15.70586568	2024	003000	Construction	C.1 Well Drilling	18.08410532	1.58369115	No Reduction	No Reduction
1266.208422	1.491440341	20.25413424	18.6338035	2024	004000	Construction	C.1 Well Drilling	4.075557402	0.358265157	No Reduction	No Reduction
1676.68534	1.974796699	26.61921647	24.48967915	2024	005000	Construction	C.1 Well Drilling	8.705435986	0.768957895	No Reduction	No Reduction
3961.954751	4.661204512	105.3744057	96.94445324	2024	006000	Construction	C.1 Well Drilling	5.779953475	0.321525972	No Reduction	No Reduction
4747.390168	5.585171161	126.2175093	116.1201086	2024	007000	Construction	C.1 Well Drilling	4.131692587	0.22994188	No Reduction	No Reduction
5925.543293	6.971121135	157.4821648	144.8835916	2024	008000	Construction	C.1 Well Drilling	2.313207446	0.128796625	No Reduction	No Reduction
7103.696418	8.357071108	188.7468202	173.6470746	2024	009000	Construction	C.1 Well Drilling	4.067543344	0.226545852	No Reduction	No Reduction
9067.284959	10.66698773	240.8545793	221.5862129	2024	010000	Construction	C.1 Well Drilling	4.585050511	0.25545505	No Reduction	No Reduction
13484.46933	15.8601023	360.6164814	331.7671629	2024	011000	Construction	C.1 Well Drilling	5.310999042	0.296900205	No Reduction	No Reduction
16846.89225	19.81478506	450.4808799	414.4424095	2024	012000	Construction	C.1 Well Drilling	8.722149424	0.487680383	No Reduction	No Reduction
20689.6613	24.3344225	553.1830496	508.9284056	2024	013000	Construction	C.1 Well Drilling	9.362292223	0.523542273	No Reduction	No Reduction
25493.12261	29.9839693	681.5607616	627.0359007	2024	014000	Construction	C.1 Well Drilling	3.192236019	0.178530471	No Reduction	No Reduction
31257.27618	36.76342545	835.6140162	768.7648949	2024	015000	Construction	C.1 Well Drilling	0.780430288	0.043650525	No Reduction	No Reduction
650.4930445	0.766405804	9.567177173	8.801802999	2025	001000	Construction	C.1 Well Drilling	3.233392708	0.290106848	No Reduction	No Reduction
855.7315035	1.008083983	12.43192262	11.43736881	2025	002000	Construction	C.1 Well Drilling	19.65205202	1.780348517	No Reduction	No Reduction
1060.969963	1.249762162	15.29666807	14.07293462	2025	003000	Construction	C.1 Well Drilling	16.81068563	1.532089872	No Reduction	No Reduction
1266.208422	1.491440341	18.16141351	16.70850043	2025	004000	Construction	C.1 Well Drilling	3.782618165	0.346148014	No Reduction	No Reduction
1676.68534	1.974796699	23.8909044	21.97963205	2025	005000	Construction	C.1 Well Drilling	8.081541554	0.743393089	No Reduction	No Reduction
3961.954751	4.661204512	103.286051	95.02316693	2025	006000	Construction	C.1 Well Drilling	5.744780913	0.322764931	No Reduction	No Reduction
4747.390168	5.585171161	123.7486731	113.8487792	2025	007000	Construction	C.1 Well Drilling	4.181578947	0.235061753	No Reduction	No Reduction
5925.543293	6.971121135	154.4426061	142.0871976	2025	008000	Construction	C.1 Well Drilling	2.29953197	0.129333648	No Reduction	No Reduction
7103.696418	8.357071108	185.1365392	170.325616	2025	009000	Construction	C.1 Well Drilling	4.04373208	0.227514424	No Reduction	No Reduction
9067.284959	10.66698773	236.2930943	217.3896467	2025	010000	Construction	C.1 Well Drilling	4.558498967	0.25657668	No Reduction	No Reduction
13484.46933	15.8601023	355.2807659	326.8583046	2025	011000	Construction	C.1 Well Drilling	5.287802831	0.29894182	No Reduction	No Reduction
16846.89225	19.81478506	443.8577221	408.3491044	2025	012000	Construction	C.1 Well Drilling	8.684320664	0.491061731	No Reduction	No Reduction
20689.6613	24.3344225	545.0885293	501.481447	2025	013000	Construction	C.1 Well Drilling	9.321899657	0.527194538	No Reduction	No Reduction
25493.12261	29.9839693	671.6270382	617.8968752	2025	014000	Construction	C.1 Well Drilling	3.178523326	0.179782184	No Reduction	No Reduction
31257.27618	36.76342545	823.473249	757.5953891	2025	015000	Construction	C.1 Well Drilling	0.777089462	0.043957786	No Reduction	No Reduction
650.4930445	0.766405804	8.829692143	8.123316771	2026	001000	Construction	C.1 Well Drilling	3.096853128	0.286995848	No Reduction	No Reduction
855.7315035	1.008083983	11.49217578	10.57280172	2026	002000	Construction	C.1 Well Drilling	18.85705941	1.76517426	No Reduction	No Reduction
1060.969963	1.249762162	14.15465942	13.02228666	2026	003000	Construction	C.1 Well Drilling	16.14471116	1.520701764	No Reduction	No Reduction
1266.208422	1.491440341	16.81714305	15.47177161	2026	004000	Construction	C.1 Well Drilling	3.643762388	0.344667844	No Reduction	No Reduction
1676.68534	1.974796699	22.14211033	20.3707415	2026	005000	Construction	C.1 Well Drilling	7.752325293	0.737261566	No Reduction	No Reduction
3961.954751	4.661204512	61.34753113	56.43972864	2026	006000	Construction	C.1 Well Drilling	4.094331385	0.235911628	No Reduction	No Reduction
4747.390168	5.585171161	73.44858911	67.57270198	2026	007000	Construction	C.1 Well Drilling	2.979374829	0.171736913	No Reduction	No Reduction
5925.543293	6.971121135	91.60017608	84.27216199	2026	008000	Construction	C.1 Well Drilling	1.637945132	0.094452024	No Reduction	No Reduction
7103.696418	8.357071108	109.751763	100.971622	2026	009000	Construction	C.1 Well Drilling	2.879776766	0.166106657	No Reduction	No Reduction
9067.284959	10.66698773	140.004408	128.8040554	2026	010000	Construction	C.1 Well Drilling	3.245693232	0.187267648	No Reduction	No Reduction
13484.46933	15.8601023	208.1908107	191.5355459	2026	011000	Construction	C.1 Well Drilling	3.748823418	0.216358812	No Reduction	No Reduction
16846.89225	19.81478506	260.0279531	239.2257169	2026	012000	Construction	C.1 Well Drilling	6.156185047	0.355351163	No Reduction	No Reduction
20689.6613	24.3344225	319.2704015	293.7287694	2026	013000	Construction	C.1 Well Drilling	6.791203714	0.392050863	No Reduction	No Reduction
25493.12261	29.9839693	393.3234621	361.8575851	2026	014000	Construction	C.1 Well Drilling	2.25289787	0.130070305	No Reduction	No Reduction
31257.27618	36.76342545	482.1871347	443.6121639	2026	015000	Construction	C.1 Well Drilling	0.550764159	0.031800571	No Reduction	No Reduction
650.4930445	0.766405804	8.101693118	7.453557668	2027	001000	Construction	C.1 Well Drilling	2.961121126	0.284102726	No Reduction	No Reduction

0.596593622	0.548866123	41	2023	0.17921982	0.00988984	No Reduction	No Reduction	0.01223017	0.01125176
0.640538147	0.589295106	36	2023	0.16890977	0.00932198	No Reduction	No Reduction	0.01152969	0.01060731
0.218447413	0.200971619	10	2023	0.01599772	0.00088298	No Reduction	No Reduction	0.00109224	0.00100486
0.053414219	0.049141081	2	2023	0.00078221	4.3177E-05	No Reduction	No Reduction	5.3414E-05	4.9141E-05
0.259332977	0.238586333	327	2024	0.56835107	0.04905461	No Reduction	No Reduction	0.04240094	0.03900887
1.586546743	1.459623086	1599	2024	16.9148462	1.47307979	No Reduction	No Reduction	1.26844412	1.16696866
1.360482915	1.251644276	1142	2024	10.3260241	0.90428765	No Reduction	No Reduction	0.77683574	0.71468888
0.307278068	0.282695852	221	2024	0.45034909	0.0395883	No Reduction	No Reduction	0.03395423	0.03123789
0.65817902	0.605524702	368	2024	1.60180022	0.14148825	No Reduction	No Reduction	0.12110494	0.11141655
0.382726769	0.352108628	91	2024	0.26298788	0.01462943	No Reduction	No Reduction	0.01741407	0.01602094
0.273874063	0.251964133	55	2024	0.11362155	0.0063234	No Reduction	No Reduction	0.00753154	0.00692901
0.153496786	0.141217046	25	2024	0.02891509	0.00160996	No Reduction	No Reduction	0.00191871	0.00176521
0.270101304	0.248493208	37	2024	0.07524955	0.0041911	No Reduction	No Reduction	0.00499687	0.00459712
0.304703255	0.280326993	33	2024	0.07565333	0.00421501	No Reduction	No Reduction	0.0050276	0.0046254
0.35925397	0.330513646	31	2024	0.08232049	0.00460195	No Reduction	No Reduction	0.00556844	0.00512296
0.590241731	0.543022384	41	2024	0.17880406	0.00999745	No Reduction	No Reduction	0.01209996	0.01113196
0.633758231	0.583057583	36	2024	0.16852126	0.00942376	No Reduction	No Reduction	0.01140765	0.01049504
0.216146438	0.198854722	10	2024	0.01596118	0.00089265	No Reduction	No Reduction	0.00108073	0.00099427
0.052853772	0.04862547	2	2024	0.00078043	4.3651E-05	No Reduction	No Reduction	5.2854E-05	4.8625E-05
0.232098135	0.213530279	328	2025	0.5302764	0.04757752	No Reduction	No Reduction	0.03806409	0.03501897
1.419754959	1.306174636	1601	2025	15.7314676	1.42516899	No Reduction	No Reduction	1.13651384	1.0455928
1.219348264	1.121800397	1144	2025	9.61571218	0.87635541	No Reduction	No Reduction	0.69746721	0.64166983
0.275118305	0.253108866	221	2025	0.41797931	0.03824936	No Reduction	No Reduction	0.03040057	0.02796853
0.589838774	0.542651674	368	2025	1.48700365	0.13678433	No Reduction	No Reduction	0.10853033	0.09984791
0.374582371	0.344615782	91	2025	0.26138753	0.0146858	No Reduction	No Reduction	0.0170435	0.01568002
0.272991514	0.251152189	56	2025	0.11708421	0.00658173	No Reduction	No Reduction	0.00764376	0.00703226
0.150309694	0.138284922	25	2025	0.02874415	0.00161667	No Reduction	No Reduction	0.00187887	0.00172856
0.264539872	0.24337669	37	2025	0.07480904	0.00420902	No Reduction	No Reduction	0.00489399	0.00450247
0.298486831	0.274607883	33	2025	0.07521523	0.00423352	No Reduction	No Reduction	0.00492503	0.00453103
0.353410673	0.325137813	31	2025	0.08196094	0.0046336	No Reduction	No Reduction	0.00547787	0.00503964
0.580696609	0.534240871	41	2025	0.17802857	0.01006677	No Reduction	No Reduction	0.01190428	0.01095194
0.623553544	0.573669271	36	2025	0.16779419	0.0094895	No Reduction	No Reduction	0.01122396	0.01032605
0.212678523	0.19566424	10	2025	0.01589262	0.00089891	No Reduction	No Reduction	0.00106339	0.00097832
0.052008188	0.047847533	2	2025	0.00077709	4.3958E-05	No Reduction	No Reduction	5.2008E-05	4.7848E-05
0.213887951	0.19677691	328	2026	0.50788391	0.04706732	No Reduction	No Reduction	0.03507762	0.03227141
1.312116729	1.207147459	1603	2026	15.1139331	1.41478717	No Reduction	No Reduction	1.05166156	0.96752869
1.128604727	1.038316343	1146	2026	9.25091949	0.87136211	No Reduction	No Reduction	0.64669051	0.59495526
0.255526347	0.235084263	222	2026	0.40445763	0.03825813	No Reduction	No Reduction	0.02836342	0.02609435
0.545849182	0.50218125	368	2026	1.42642785	0.13565613	No Reduction	No Reduction	0.10043625	0.09240135
0.222154788	0.204382405	91	2026	0.18629208	0.01073398	No Reduction	No Reduction	0.01010804	0.0092994
0.161787506	0.148844503	56	2026	0.0834225	0.00480863	No Reduction	No Reduction	0.00453005	0.00416765
0.089016211	0.081894916	25	2026	0.02047431	0.00118065	No Reduction	No Reduction	0.0011127	0.00102369
0.156589785	0.144062607	37	2026	0.05327587	0.00307297	No Reduction	No Reduction	0.00289691	0.00266516
0.176591087	0.1624638	33	2026	0.05355394	0.00308992	No Reduction	No Reduction	0.00291375	0.00268065
0.206786626	0.190243692	31	2026	0.05810676	0.00335356	No Reduction	No Reduction	0.00320519	0.00294878
0.339686645	0.312511709	41	2026	0.12620179	0.0072847	No Reduction	No Reduction	0.00696358	0.00640649
0.374815478	0.344830246	37	2026	0.12563727	0.00725294	No Reduction	No Reduction	0.00693409	0.00637936
0.12436502	0.114415818	10	2026	0.01126449	0.00065035	No Reduction	No Reduction	0.00062183	0.00057208
0.030408204	0.027975548	2	2026	0.00055076	3.1801E-05	No Reduction	No Reduction	3.0408E-05	2.7976E-05
0.196558799	0.180834091	329	2027	0.48710443	0.0467349	No Reduction	No Reduction	0.03233392	0.02974721

0.201339828	41	0.004910728	34.24741372	2023
0.189761434	36	0.005271151	36.76100665	2023
0.017972937	10	0.001797294	12.53432612	2023
0.000878797	2	0.000439399	3.064366814	2023
0.659806619	327	0.002017757	14.07183902	2024
19.65637006	1599	0.012292914	85.73078475	2024
12.00714753	1142	0.01051414	73.32561021	2024
0.523891619	221	0.00237055	16.53221789	2024
1.864393414	368	0.005066286	35.33228171	2024
0.295031383	91	0.003242103	22.61042708	2024
0.127476485	55	0.002317754	16.16401824	2024
0.032443761	25	0.00129775	9.050511487	2024
0.084437524	37	0.002282095	15.91533227	2024
0.084895945	33	0.002572604	17.94134314	2024
0.092490875	31	0.002983577	20.80746327	2024
0.200901467	41	0.004900036	34.17284945	2024
0.189352669	36	0.005259796	36.68181984	2024
0.017934565	10	0.001793456	12.50756538	2024
0.000876935	2	0.000438467	3.057870897	2024
0.615918021	328	0.001877799	13.09576915	2025
18.29315047	1601	0.011426078	79.68546621	2025
11.18953479	1144	0.009781062	68.21312557	2025
0.486629235	221	0.002201942	15.3563452	2025
1.732318309	368	0.004707387	32.8293149	2025
0.293116834	91	0.003221064	22.46370109	2025
0.131309702	56	0.002344816	16.35274753	2025
0.032239691	25	0.001289588	8.993584312	2025
0.083912048	37	0.002267893	15.81628709	2025
0.084373781	33	0.002556781	17.83099236	2025
0.092072408	31	0.002970078	20.71332162	2025
0.19999962	41	0.00487804	34.01944749	2025
0.188507659	36	0.005236324	36.51812267	2025
0.01785492	10	0.001785492	12.45202132	2025
0.000873055	2	0.000436528	3.044344306	2025
0.590028856	328	0.001798868	12.54530867	2026
17.58038184	1603	0.010967175	76.48507983	2026
10.76897211	1146	0.009397009	65.53473955	2026
0.47107918	222	0.002121978	14.79867659	2026
1.662520232	368	0.004517718	31.50656548	2026
0.2071341	91	0.002276199	15.87421113	2026
0.092761179	56	0.00165645	11.55207968	2026
0.022767667	25	0.000910707	6.351268411	2026
0.059245754	37	0.001601237	11.16702408	2026
0.059557607	33	0.001804776	12.58650771	2026
0.064665517	31	0.002085984	14.5476554	2026
0.140450069	41	0.003425611	23.8902141	2026
0.139824296	37	0.003779035	26.35499028	2026
0.012536666	10	0.001253667	8.74307085	2026
0.000612973	2	0.000306486	2.137436623	2026
0.566173246	329	0.001720891	12.00149611	2027

	2000	5.80%	5.97%	No Reduct	No Reduct	11.41%	11.41%	2027	002000	Construction	C.1 Well Drilling	310.3226543	29.23918253
	3000	4.03%	4.16%	No Reduct	No Reduct	7.98%	7.98%	2027	003000	Construction	C.1 Well Drilling	383.2058981	36.19257436
	4000	0.76%	0.79%	No Reduct	No Reduct	1.52%	1.52%	2027	004000	Construction	C.1 Well Drilling	456.089142	43.14596618
	5000	1.23%	1.28%	No Reduct	No Reduct	2.47%	2.47%	2027	005000	Construction	C.1 Well Drilling	601.8556298	57.05274983
	6000	0.15%	0.18%	No Reduct	No Reduct	0.36%	0.36%	2027	006000	Construction	C.1 Well Drilling	2732.765427	134.013557
	7000	0.09%	0.11%	No Reduct	No Reduct	0.22%	0.22%	2027	007000	Construction	C.1 Well Drilling	3275.560577	160.5311453
2027	8000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2027	008000	Construction	C.1 Well Drilling	4089.753302	200.3075278
	9000	0.06%	0.07%	No Reduct	No Reduct	0.15%	0.15%	2027	009000	Construction	C.1 Well Drilling	4903.946026	240.0839103
	10000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2027	010000	Construction	C.1 Well Drilling	6260.9339	306.3778812
	11000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2027	011000	Construction	C.1 Well Drilling	9482.797117	456.3735298
	12000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2027	012000	Construction	C.1 Well Drilling	11848.79898	570.1105084
	13000	0.05%	0.06%	No Reduct	No Reduct	0.12%	0.12%	2027	013000	Construction	C.1 Well Drilling	14552.8011	700.0956269
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2027	014000	Construction	C.1 Well Drilling	17932.80376	862.5770249
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%	2027	015000	Construction	C.1 Well Drilling	21988.80695	1057.554703
	1000	1.25%	1.27%	No Reduct	No Reduct	2.42%	2.42%	2028	001000	Construction	C.1 Well Drilling	220.3047946	21.91287962
	2000	5.81%	5.97%	No Reduct	No Reduct	11.42%	11.42%	2028	002000	Construction	C.1 Well Drilling	287.738463	28.7537402
	3000	4.03%	4.16%	No Reduct	No Reduct	7.98%	7.98%	2028	003000	Construction	C.1 Well Drilling	355.1721314	35.59460077
	4000	0.76%	0.79%	No Reduct	No Reduct	1.51%	1.51%	2028	004000	Construction	C.1 Well Drilling	422.6057999	42.43546135
	5000	1.23%	1.28%	No Reduct	No Reduct	2.46%	2.46%	2028	005000	Construction	C.1 Well Drilling	557.4731368	56.11718251
	6000	0.15%	0.18%	No Reduct	No Reduct	0.36%	0.36%	2028	006000	Construction	C.1 Well Drilling	2729.804588	136.2304136
	7000	0.09%	0.11%	No Reduct	No Reduct	0.22%	0.22%	2028	007000	Construction	C.1 Well Drilling	3272.164748	163.1984367
2028	8000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2028	008000	Construction	C.1 Well Drilling	4085.704988	203.6504715
	9000	0.06%	0.07%	No Reduct	No Reduct	0.15%	0.15%	2028	009000	Construction	C.1 Well Drilling	4899.245228	244.1025062
	10000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2028	010000	Construction	C.1 Well Drilling	6255.145627	311.522564
	11000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2028	011000	Construction	C.1 Well Drilling	9482.668135	464.5924702
	12000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2028	012000	Construction	C.1 Well Drilling	11848.83422	580.3930133
	13000	0.05%	0.06%	No Reduct	No Reduct	0.12%	0.12%	2028	013000	Construction	C.1 Well Drilling	14553.02403	712.7364911
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2028	014000	Construction	C.1 Well Drilling	17933.2613	878.1658384
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%	2028	015000	Construction	C.1 Well Drilling	21989.54602	1076.681055
	1000	1.25%	1.27%	No Reduct	No Reduct	2.43%	2.43%	2029	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	5.80%	5.97%	No Reduct	No Reduct	11.42%	11.42%	2029	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	4.03%	4.16%	No Reduct	No Reduct	7.98%	7.98%	2029	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.76%	0.79%	No Reduct	No Reduct	1.51%	1.51%	2029	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	1.23%	1.28%	No Reduct	No Reduct	2.47%	2.47%	2029	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.15%	0.18%	No Reduct	No Reduct	0.36%	0.36%	2029	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.09%	0.11%	No Reduct	No Reduct	0.22%	0.22%	2029	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2029	8000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2029	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.06%	0.07%	No Reduct	No Reduct	0.15%	0.15%	2029	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2029	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2029	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2029	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.05%	0.06%	No Reduct	No Reduct	0.12%	0.12%	2029	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2029	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%	2029	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	1.25%	1.27%	No Reduct	No Reduct	2.42%	2.42%	2030	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	5.81%	5.97%	No Reduct	No Reduct	11.42%	11.42%	2030	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	4.03%	4.16%	No Reduct	No Reduct	7.97%	7.97%	2030	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.76%	0.79%	No Reduct	No Reduct	1.52%	1.52%	2030	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	1.23%	1.28%	No Reduct	No Reduct	2.47%	2.47%	2030	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.15%	0.18%	No Reduct	No Reduct	0.36%	0.36%	2030	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451

855.7315035	1.008083983	10.56198754	9.71702854	2027	002000	Construction	C.1 Well Drilling	17.99670157	1.744564251	No Reduction	No Reduction
1060.969963	1.249762162	13.02228197	11.98049941	2027	003000	Construction	C.1 Well Drilling	15.43053825	1.50537956	No Reduction	No Reduction
1266.208422	1.491440341	15.48257639	14.24397028	2027	004000	Construction	C.1 Well Drilling	3.477303091	0.340715591	No Reduction	No Reduction
1676.68534	1.974796699	20.40316524	18.77091203	2027	005000	Construction	C.1 Well Drilling	7.420430451	0.731101001	No Reduction	No Reduction
3961.954751	4.661204512	59.61227168	54.84328995	2027	006000	Construction	C.1 Well Drilling	4.060782863	0.238025308	No Reduction	No Reduction
4747.390168	5.585171161	71.39056405	65.67931893	2027	007000	Construction	C.1 Well Drilling	2.955193604	0.173298122	No Reduction	No Reduction
5925.543293	6.971121135	89.05800261	81.9333624	2027	008000	Construction	C.1 Well Drilling	1.62477879	0.095323086	No Reduction	No Reduction
7103.696418	8.357071108	106.7254412	98.18740587	2027	009000	Construction	C.1 Well Drilling	2.933988208	0.172184322	No Reduction	No Reduction
9067.284959	10.66698773	136.1711721	125.2774783	2027	010000	Construction	C.1 Well Drilling	3.219955991	0.189029121	No Reduction	No Reduction
13484.46933	15.8601023	203.5993388	187.3113917	2027	011000	Construction	C.1 Well Drilling	3.725865756	0.218990734	No Reduction	No Reduction
16846.89225	19.81478506	254.3189711	233.9734534	2027	012000	Construction	C.1 Well Drilling	6.118655798	0.359691085	No Reduction	No Reduction
20689.6613	24.3344225	312.2842651	287.3015239	2027	013000	Construction	C.1 Well Drilling	6.749943769	0.396853147	No Reduction	No Reduction
25493.12261	29.9839693	384.7408826	353.961612	2027	014000	Construction	C.1 Well Drilling	2.239248888	0.131667432	No Reduction	No Reduction
31257.27618	36.76342545	471.6888236	433.9537177	2027	015000	Construction	C.1 Well Drilling	0.547434878	0.032191802	No Reduction	No Reduction
650.4930445	0.766405804	7.431979033	6.83742071	2028	001000	Construction	C.1 Well Drilling	2.743355976	0.278934129	No Reduction	No Reduction
855.7315035	1.008083983	9.688992596	8.913873189	2028	002000	Construction	C.1 Well Drilling	16.70374618	1.717325488	No Reduction	No Reduction
1060.969963	1.249762162	11.94600616	10.99032567	2028	003000	Construction	C.1 Well Drilling	14.3053528	1.480885452	No Reduction	No Reduction
1266.208422	1.491440341	14.20301972	13.06677815	2028	004000	Construction	C.1 Well Drilling	3.217237445	0.334607433	No Reduction	No Reduction
1676.68534	1.974796699	18.71704685	17.2196831	2028	005000	Construction	C.1 Well Drilling	6.863024744	0.718044738	No Reduction	No Reduction
3961.954751	4.661204512	58.97986828	54.26147881	2028	006000	Construction	C.1 Well Drilling	4.050361821	0.241603557	No Reduction	No Reduction
4747.390168	5.585171161	70.64365426	64.99216192	2028	007000	Construction	C.1 Well Drilling	2.947747723	0.175916022	No Reduction	No Reduction
5925.543293	6.971121135	88.13933324	81.08818658	2028	008000	Construction	C.1 Well Drilling	1.620761017	0.096770078	No Reduction	No Reduction
7103.696418	8.357071108	105.6350122	97.18421124	2028	009000	Construction	C.1 Well Drilling	2.926824683	0.174806523	No Reduction	No Reduction
9067.284959	10.66698773	134.7944772	124.010919	2028	010000	Construction	C.1 Well Drilling	3.212203794	0.19191798	No Reduction	No Reduction
13484.46933	15.8601023	202.0884447	185.9213691	2028	011000	Construction	C.1 Well Drilling	3.720284427	0.222603663	No Reduction	No Reduction
16846.89225	19.81478506	252.4453213	232.2496956	2028	012000	Construction	C.1 Well Drilling	6.109591355	0.365634907	No Reduction	No Reduction
20689.6613	24.3344225	309.9960374	285.1963544	2028	013000	Construction	C.1 Well Drilling	6.740027308	0.403418961	No Reduction	No Reduction
25493.12261	29.9839693	381.9344325	351.3796779	2028	014000	Construction	C.1 Well Drilling	2.235981965	0.133847994	No Reduction	No Reduction
31257.27618	36.76342545	468.2605067	430.7996662	2028	015000	Construction	C.1 Well Drilling	0.546640631	0.032725355	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2029	001000	Construction	C.1 Well Drilling	2.649964077	0.271778577	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2029	002000	Construction	C.1 Well Drilling	16.10436741	1.670098939	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2029	003000	Construction	C.1 Well Drilling	13.79787675	1.440780026	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2029	004000	Construction	C.1 Well Drilling	3.09756993	0.324966104	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2029	005000	Construction	C.1 Well Drilling	6.625247552	0.69920595	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2029	006000	Construction	C.1 Well Drilling	4.043230667	0.244578978	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2029	007000	Construction	C.1 Well Drilling	2.942654884	0.178092842	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2029	008000	Construction	C.1 Well Drilling	1.618014288	0.09797325	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2029	009000	Construction	C.1 Well Drilling	2.921929033	0.176986853	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2029	010000	Construction	C.1 Well Drilling	3.206907842	0.19432	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2029	011000	Construction	C.1 Well Drilling	3.717410212	0.22577128	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2029	012000	Construction	C.1 Well Drilling	6.104942925	0.370845826	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2029	013000	Construction	C.1 Well Drilling	6.734958131	0.409174933	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2029	014000	Construction	C.1 Well Drilling	2.234316424	0.135759534	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2029	015000	Construction	C.1 Well Drilling	0.546236582	0.033193069	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2030	001000	Construction	C.1 Well Drilling	2.646042077	0.271376339	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2030	002000	Construction	C.1 Well Drilling	16.11049636	1.67073454	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2030	003000	Construction	C.1 Well Drilling	13.78941522	1.439896469	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2030	004000	Construction	C.1 Well Drilling	3.106917832	0.325946792	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2030	005000	Construction	C.1 Well Drilling	6.633321628	0.700058061	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2030	006000	Construction	C.1 Well Drilling	4.037246606	0.244216997	No Reduction	No Reduction

1.204871116	1.10848149	1604		2027	14.4333547	1.39914053	No Reduction	No Reduction	0.96630664	0.88900216
1.038581769	0.955495222	1148		2027	8.85712896	0.86408787	No Reduction	No Reduction	0.59614594	0.54845426
0.234898686	0.216106813	222		2027	0.38598064	0.03781943	No Reduction	No Reduction	0.02607375	0.02398786
0.503597582	0.463309778	369		2027	1.36906942	0.13488813	No Reduction	No Reduction	0.09291375	0.08548065
0.21555006	0.198306055	91		2027	0.18476562	0.01083015	No Reduction	No Reduction	0.00980753	0.00902293
0.157020452	0.144458814	56		2027	0.08274542	0.00485235	No Reduction	No Reduction	0.00439657	0.00404485
0.086417089	0.079503724	25		2027	0.02030973	0.00119154	No Reduction	No Reduction	0.00108021	0.0009938
0.15615491	0.143662522	38		2027	0.05574578	0.0032715	No Reduction	No Reduction	0.00296694	0.00272959
0.171500794	0.15778073	33		2027	0.05312927	0.00311898	No Reduction	No Reduction	0.00282976	0.00260338
0.201925489	0.185771446	31		2027	0.05775092	0.00339436	No Reduction	No Reduction	0.00312985	0.00287946
0.331734838	0.305196046	41		2027	0.12543244	0.00737367	No Reduction	No Reduction	0.00680056	0.00625652
0.366068913	0.336783406	37		2027	0.12487396	0.00734178	No Reduction	No Reduction	0.00677227	0.00623049
0.121470443	0.111752807	10		2027	0.01119624	0.00065834	No Reduction	No Reduction	0.00060735	0.00055876
0.029701927	0.027325773	2		2027	0.00054743	3.2192E-05	No Reduction	No Reduction	2.9702E-05	2.7326E-05
0.180042911	0.165639474	329		2028	0.45128206	0.04588466	No Reduction	No Reduction	0.02961706	0.02724769
1.106394722	1.017883202	1608		2028	13.4298119	1.38072969	No Reduction	No Reduction	0.88954136	0.81837809
0.952987348	0.876748355	1150		2028	8.22557786	0.85150913	No Reduction	No Reduction	0.54796773	0.5041303
0.215165627	0.197952397	222		2028	0.35711336	0.03714143	No Reduction	No Reduction	0.02388338	0.02197272
0.461294488	0.424390931	369		2028	1.26622807	0.13247925	No Reduction	No Reduction	0.08510883	0.07830013
0.212946802	0.195911058	91		2028	0.18429146	0.01099296	No Reduction	No Reduction	0.00968908	0.00891395
0.155147012	0.142735249	56		2028	0.08253694	0.00492565	No Reduction	No Reduction	0.00434412	0.00399659
0.085398707	0.078566812	25		2028	0.02025951	0.00120963	No Reduction	No Reduction	0.00106748	0.00098209
0.154330023	0.141983625	38		2028	0.05560967	0.00332132	No Reduction	No Reduction	0.00293227	0.00269769
0.169514911	0.155953718	33		2028	0.05300136	0.00316665	No Reduction	No Reduction	0.002797	0.00257324
0.200129499	0.184119136	31		2028	0.05766441	0.00345036	No Reduction	No Reduction	0.00310201	0.00285385
0.328802036	0.302497869	41		2028	0.12524662	0.00749552	No Reduction	No Reduction	0.00674044	0.00620121
0.362847168	0.3338194	37		2028	0.12469051	0.00746325	No Reduction	No Reduction	0.00671267	0.00617566
0.120405393	0.110772961	10		2028	0.01117991	0.00066924	No Reduction	No Reduction	0.00060203	0.00055386
0.029442279	0.027086896	2		2028	0.00054664	3.2725E-05	No Reduction	No Reduction	2.9442E-05	2.7087E-05
0.173420925	0.159547247	330		2029	0.43724407	0.04484347	No Reduction	No Reduction	0.02861445	0.0263253
1.064669184	0.979495705	1610		2029	12.9640158	1.34442965	No Reduction	No Reduction	0.85705869	0.78849404
0.91797042	0.844532782	1152		2029	7.94757701	0.82988929	No Reduction	No Reduction	0.52875096	0.48645088
0.206971855	0.190414126	222		2029	0.34383026	0.03607124	No Reduction	No Reduction	0.02297388	0.02113597
0.445128409	0.409518138	370		2029	1.2256708	0.1293531	No Reduction	No Reduction	0.08234876	0.07576086
0.211317224	0.194411846	91		2029	0.183967	0.01112834	No Reduction	No Reduction	0.00961493	0.00884574
0.153979142	0.141660809	56		2029	0.08239434	0.0049866	No Reduction	No Reduction	0.00431142	0.0039665
0.084766584	0.077985258	25		2029	0.02022518	0.00122467	No Reduction	No Reduction	0.00105958	0.00097482
0.153200619	0.140944574	38		2029	0.05551665	0.00336275	No Reduction	No Reduction	0.00291081	0.00267795
0.168289885	0.154826694	33		2029	0.05291398	0.00320628	No Reduction	No Reduction	0.00277678	0.00255464
0.199144756	0.183213172	31		2029	0.05761986	0.00349945	No Reduction	No Reduction	0.00308674	0.0028398
0.327199122	0.301023188	41		2029	0.12515133	0.00760234	No Reduction	No Reduction	0.00670758	0.00617098
0.361090588	0.332203347	37		2029	0.12459673	0.00756974	No Reduction	No Reduction	0.00668018	0.00614576
0.119825872	0.110239802	10		2029	0.01117158	0.0006788	No Reduction	No Reduction	0.00059913	0.0005512
0.029301226	0.026957128	2		2029	0.00054624	3.3193E-05	No Reduction	No Reduction	2.9301E-05	2.6957E-05
0.173164258	0.159311114	330		2030	0.43659694	0.0447771	No Reduction	No Reduction	0.0285721	0.02628633
1.065074372	0.979868478	1613		2030	12.9931153	1.34744741	No Reduction	No Reduction	0.85898248	0.79026393
0.917407475	0.844014873	1153		2030	7.94959787	0.83010031	No Reduction	No Reduction	0.52888541	0.48657457
0.207596459	0.190988761	223		2030	0.34642134	0.03634307	No Reduction	No Reduction	0.02314701	0.02129525
0.445670879	0.410017211	371		2030	1.23048116	0.12986077	No Reduction	No Reduction	0.08267195	0.07605819
0.21100447	0.194124113	91		2030	0.18369472	0.01111187	No Reduction	No Reduction	0.0096007	0.00883265

16.79880182	1604	0.010473068	73.03917949	2027
10.31736276	1148	0.00898725	62.67708005	2027
0.449873828	222	0.002026459	14.13252286	2027
1.596871307	369	0.004327565	30.18043494	2027
0.205403299	91	0.002257179	15.74156715	2027
0.091994341	56	0.001642756	11.45658097	2027
0.022581487	25	0.000903259	6.299331632	2027
0.061984221	38	0.001631164	11.37573578	2027
0.059078017	33	0.001790243	12.48515435	2027
0.064275121	31	0.002073391	14.45982876	2027
0.139606675	41	0.003405041	23.74675496	2027
0.138988018	37	0.003756433	26.19736314	2027
0.012461934	10	0.001246193	8.690952645	2027
0.000609329	2	0.000304664	2.124728853	2027
0.526783781	329	0.001601167	11.16653522	2028
15.70008297	1608	0.009763733	68.09227529	2028
9.62505472	1150	0.008369613	58.36967966	2028
0.418138166	222	0.001883505	13.13556564	2028
1.483816152	369	0.004021182	28.04372316	2028
0.204973504	91	0.002252456	15.70862877	2028
0.091806701	56	0.001639405	11.43321311	2028
0.022536623	25	0.000901465	6.286816221	2028
0.061863263	38	0.001627981	11.35353681	2028
0.058965005	33	0.001786818	12.46127112	2028
0.064216773	31	0.002071509	14.44670234	2028
0.13948258	41	0.003402014	23.72564668	2028
0.138866429	37	0.003753147	26.17444521	2028
0.012451177	10	0.001245118	8.683450671	2028
0.000608808	2	0.000304404	2.122914419	2028
0.51070199	330	0.001547582	10.7928354	2029
15.16550411	1610	0.009419568	65.69206562	2029
9.306217265	1152	0.008078314	56.33815903	2029
0.402875376	222	0.001814754	12.65609401	2029
1.437372654	370	0.003884791	27.09253212	2029
0.204710273	91	0.002249563	15.68845539	2029
0.091692352	56	0.001637363	11.41897259	2029
0.022509427	25	0.000900377	6.279229621	2029
0.061790214	38	0.001626058	11.34013025	2029
0.058897042	33	0.001784759	12.44690831	2029
0.064206057	31	0.002071163	14.44429163	2029
0.139461251	41	0.003401494	23.72201871	2029
0.138846638	37	0.003752612	26.17071488	2029
0.012449509	10	0.001244951	8.68228768	2029
0.000608731	2	0.000304365	2.122644572	2029
0.509946141	330	0.001545291	10.77686179	2030
15.1995452	1613	0.009423153	65.71706648	2030
9.308583596	1153	0.00807336	56.30360972	2030
0.405911411	223	0.001820231	12.6942878	2030
1.44301388	371	0.003889525	27.12554933	2030
0.204407297	91	0.002246234	15.66523617	2030

	7000	0.09%	0.11%	No Reduct	No Reduct	0.22%	0.22%	2030	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2030	8000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2030	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.06%	0.07%	No Reduct	No Reduct	0.15%	0.15%	2030	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2030	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2030	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2030	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.05%	0.06%	No Reduct	No Reduct	0.12%	0.12%	2030	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2030	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%	2030	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	1.24%	1.27%	No Reduct	No Reduct	2.42%	2.42%	2031	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	5.81%	5.98%	No Reduct	No Reduct	11.43%	11.43%	2031	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	4.03%	4.16%	No Reduct	No Reduct	7.98%	7.98%	2031	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.76%	0.79%	No Reduct	No Reduct	1.52%	1.52%	2031	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	1.23%	1.28%	No Reduct	No Reduct	2.47%	2.47%	2031	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.15%	0.18%	No Reduct	No Reduct	0.36%	0.36%	2031	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.09%	0.11%	No Reduct	No Reduct	0.22%	0.22%	2031	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2031	8000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2031	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.06%	0.07%	No Reduct	No Reduct	0.15%	0.15%	2031	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2031	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2031	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2031	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.05%	0.06%	No Reduct	No Reduct	0.12%	0.12%	2031	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2031	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%	2031	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	1.25%	1.28%	No Reduct	No Reduct	2.43%	2.43%	2032	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	5.80%	5.97%	No Reduct	No Reduct	11.42%	11.42%	2032	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	4.03%	4.16%	No Reduct	No Reduct	7.98%	7.98%	2032	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.76%	0.79%	No Reduct	No Reduct	1.52%	1.52%	2032	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	1.23%	1.28%	No Reduct	No Reduct	2.46%	2.46%	2032	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.15%	0.18%	No Reduct	No Reduct	0.36%	0.36%	2032	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.09%	0.11%	No Reduct	No Reduct	0.22%	0.22%	2032	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2032	8000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2032	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.06%	0.07%	No Reduct	No Reduct	0.15%	0.15%	2032	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2032	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2032	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2032	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.05%	0.06%	No Reduct	No Reduct	0.12%	0.12%	2032	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2032	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%	2032	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	1.25%	1.28%	No Reduct	No Reduct	2.43%	2.43%	2033	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	5.80%	5.96%	No Reduct	No Reduct	11.40%	11.40%	2033	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	4.03%	4.16%	No Reduct	No Reduct	7.98%	7.98%	2033	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.76%	0.79%	No Reduct	No Reduct	1.52%	1.52%	2033	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	1.23%	1.28%	No Reduct	No Reduct	2.47%	2.47%	2033	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.15%	0.18%	No Reduct	No Reduct	0.36%	0.36%	2033	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.09%	0.11%	No Reduct	No Reduct	0.22%	0.22%	2033	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2033	8000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2033	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.06%	0.07%	No Reduct	No Reduct	0.15%	0.15%	2033	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.05%	0.06%	No Reduct	No Reduct	0.12%	0.12%	2033	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2033	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126

4747.390168	5.585171161	70.21595899	64.59868227	2030	007000	Construction	C.1 Well Drilling	2.938299697	0.177829261	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2030	008000	Construction	C.1 Well Drilling	1.615619595	0.097828248	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2030	009000	Construction	C.1 Well Drilling	2.917604521	0.176724909	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2030	010000	Construction	C.1 Well Drilling	3.202161555	0.194032402	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2030	011000	Construction	C.1 Well Drilling	3.711908371	0.225437134	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2030	012000	Construction	C.1 Well Drilling	6.095907489	0.370296967	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2030	013000	Construction	C.1 Well Drilling	6.72499026	0.408569346	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2030	014000	Construction	C.1 Well Drilling	2.231009592	0.135558607	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2030	015000	Construction	C.1 Well Drilling	0.545428142	0.033143943	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2031	001000	Construction	C.1 Well Drilling	2.64213167	0.27097529	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2031	002000	Construction	C.1 Well Drilling	16.11660719	1.671368262	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2031	003000	Construction	C.1 Well Drilling	13.79292062	1.440262504	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2031	004000	Construction	C.1 Well Drilling	3.102326328	0.325465098	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2031	005000	Construction	C.1 Well Drilling	6.623518689	0.699023492	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2031	006000	Construction	C.1 Well Drilling	4.031280231	0.243856085	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2031	007000	Construction	C.1 Well Drilling	2.933957382	0.177566459	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2031	008000	Construction	C.1 Well Drilling	1.613231979	0.097683674	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2031	009000	Construction	C.1 Well Drilling	2.91329279	0.176463739	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2031	010000	Construction	C.1 Well Drilling	3.197429297	0.193745655	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2031	011000	Construction	C.1 Well Drilling	3.825984818	0.232365395	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2031	012000	Construction	C.1 Well Drilling	6.086898758	0.36974973	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2031	013000	Construction	C.1 Well Drilling	6.715051851	0.407965549	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2031	014000	Construction	C.1 Well Drilling	2.227712533	0.135358274	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2031	015000	Construction	C.1 Well Drilling	0.54462209	0.033094962	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2032	001000	Construction	C.1 Well Drilling	2.654222094	0.272215276	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2032	002000	Construction	C.1 Well Drilling	16.10278312	1.66993464	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2032	003000	Construction	C.1 Well Drilling	13.79641567	1.440627459	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2032	004000	Construction	C.1 Well Drilling	3.111639623	0.326442155	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2032	005000	Construction	C.1 Well Drilling	6.613744683	0.697991977	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2032	006000	Construction	C.1 Well Drilling	4.025331466	0.243496238	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2032	007000	Construction	C.1 Well Drilling	2.929627883	0.177304433	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2032	008000	Construction	C.1 Well Drilling	1.610851411	0.097539527	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2032	009000	Construction	C.1 Well Drilling	2.908993784	0.17620334	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2032	010000	Construction	C.1 Well Drilling	3.192711004	0.193459754	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2032	011000	Construction	C.1 Well Drilling	3.820338997	0.232022504	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2032	012000	Construction	C.1 Well Drilling	6.077916616	0.369204108	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2032	013000	Construction	C.1 Well Drilling	6.705142773	0.407363534	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2032	014000	Construction	C.1 Well Drilling	2.224425205	0.135158532	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2032	015000	Construction	C.1 Well Drilling	0.543818418	0.033046125	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2033	001000	Construction	C.1 Well Drilling	2.65096218	0.271880941	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2033	002000	Construction	C.1 Well Drilling	16.08300569	1.667883628	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2033	003000	Construction	C.1 Well Drilling	13.80329023	1.441345303	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2033	004000	Construction	C.1 Well Drilling	3.107817909	0.326041219	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2033	005000	Construction	C.1 Well Drilling	6.623426595	0.699013773	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2033	006000	Construction	C.1 Well Drilling	4.020387556	0.243197176	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2033	007000	Construction	C.1 Well Drilling	2.926029716	0.177086668	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2033	008000	Construction	C.1 Well Drilling	1.673227883	0.101316518	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2033	009000	Construction	C.1 Well Drilling	2.90542096	0.175986927	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2033	010000	Construction	C.1 Well Drilling	3.188789719	0.193222146	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2033	011000	Construction	C.1 Well Drilling	3.815646858	0.231737534	No Reduction	No Reduction

0.15375125	0.141451148	56	2030	0.08227239	0.00497922	No Reduction	No Reduction	0.00430504	0.00396063
0.084641127	0.077869839	25	2030	0.02019524	0.00122285	No Reduction	No Reduction	0.00105801	0.00097337
0.152973879	0.140735973	38	2030	0.05543449	0.00335777	No Reduction	No Reduction	0.0029065	0.00267398
0.168040813	0.154597547	33	2030	0.05283567	0.00320153	No Reduction	No Reduction	0.00277267	0.00255086
0.198850018	0.182942013	31	2030	0.05753458	0.00349428	No Reduction	No Reduction	0.00308218	0.0028356
0.326714861	0.300577668	41	2030	0.1249661	0.00759109	No Reduction	No Reduction	0.00669765	0.00616184
0.360556167	0.33171168	37	2030	0.12441232	0.00755853	No Reduction	No Reduction	0.00667029	0.00613667
0.119648527	0.110076645	10	2030	0.01115505	0.00067779	No Reduction	No Reduction	0.00059824	0.00055038
0.02925786	0.026917231	2	2030	0.00054543	3.3144E-05	No Reduction	No Reduction	2.9258E-05	2.6917E-05
0.172908351	0.159075679	330	2031	0.43595173	0.04471092	No Reduction	No Reduction	0.02852988	0.02624749
1.065478363	0.98024015	1616	2031	13.0222186	1.35046556	No Reduction	No Reduction	0.86090652	0.79203404
0.917640689	0.844229429	1155	2031	7.96541166	0.8317516	No Reduction	No Reduction	0.5299375	0.4875425
0.207289666	0.190706512	223	2031	0.34590939	0.03628936	No Reduction	No Reduction	0.0231128	0.02126378
0.445012252	0.409411274	371	2031	1.22866272	0.12966886	No Reduction	No Reduction	0.08254977	0.07594579
0.210692641	0.19383723	91	2031	0.18342325	0.01109545	No Reduction	No Reduction	0.00958652	0.00881959
0.153524032	0.141242107	56	2031	0.08215081	0.00497186	No Reduction	No Reduction	0.00429867	0.00395478
0.084516042	0.07775476	25	2031	0.0201654	0.00122105	No Reduction	No Reduction	0.00105645	0.00097193
0.152747809	0.140527989	38	2031	0.05535256	0.00335281	No Reduction	No Reduction	0.00290221	0.00267003
0.167792477	0.154369078	33	2031	0.05275758	0.0031968	No Reduction	No Reduction	0.00276858	0.00254709
0.204961188	0.188564289	32	2031	0.06121576	0.00371785	No Reduction	No Reduction	0.00327938	0.00301703
0.326232031	0.300133464	41	2031	0.12478142	0.00757987	No Reduction	No Reduction	0.00668776	0.00615274
0.360023325	0.331221465	37	2031	0.12422846	0.00754736	No Reduction	No Reduction	0.00666043	0.0061276
0.119471707	0.10991397	10	2031	0.01113856	0.00067679	No Reduction	No Reduction	0.00059736	0.00054957
0.029214622	0.026877452	2	2031	0.00054462	3.3095E-05	No Reduction	No Reduction	2.9215E-05	2.6877E-05
0.173699581	0.159803611	332	2032	0.44060087	0.04518774	No Reduction	No Reduction	0.02883413	0.0265274
1.064564446	0.979399346	1617	2032	13.0191002	1.35014216	No Reduction	No Reduction	0.86070035	0.79184437
0.917873214	0.844443353	1157	2032	7.98122646	0.83340299	No Reduction	No Reduction	0.53098965	0.48851048
0.207911957	0.19127902	224	2032	0.34850364	0.03656152	No Reduction	No Reduction	0.02328614	0.02142325
0.444355569	0.408807126	371	2032	1.22684964	0.12947751	No Reduction	No Reduction	0.08242796	0.07583372
0.210381732	0.193551193	91	2032	0.18315258	0.01107908	No Reduction	No Reduction	0.00957237	0.00880658
0.153297484	0.141033682	56	2032	0.08202958	0.00496452	No Reduction	No Reduction	0.00429233	0.00394894
0.084391326	0.077640021	25	2032	0.02013564	0.00121924	No Reduction	No Reduction	0.00105489	0.0009705
0.152522407	0.140320619	38	2032	0.05527088	0.00334786	No Reduction	No Reduction	0.00289793	0.00266609
0.167544874	0.154141283	33	2032	0.05267973	0.00319209	No Reduction	No Reduction	0.00276449	0.00254333
0.204658737	0.188286034	32	2032	0.06112542	0.00371236	No Reduction	No Reduction	0.00327454	0.00301258
0.325750626	0.299690572	41	2032	0.12459729	0.00756868	No Reduction	No Reduction	0.00667789	0.00614366
0.359492056	0.330732698	37	2032	0.12404514	0.00753623	No Reduction	No Reduction	0.0066506	0.00611855
0.119295408	0.109751775	10	2032	0.01112213	0.00067579	No Reduction	No Reduction	0.00059648	0.00054876
0.029171511	0.02683779	2	2032	0.00054382	3.3046E-05	No Reduction	No Reduction	2.9172E-05	2.6838E-05
0.173486243	0.15960734	332	2033	0.44005972	0.04513224	No Reduction	No Reduction	0.02879872	0.02649482
1.063256948	0.978196448	1617	2033	13.0031101	1.34848391	No Reduction	No Reduction	0.85964324	0.79087183
0.918330578	0.844864127	1159	2033	7.99900669	0.8352596	No Reduction	No Reduction	0.53217257	0.48959876
0.207656599	0.191044091	224	2033	0.34807561	0.03651662	No Reduction	No Reduction	0.02325754	0.02139694
0.445006065	0.409405582	372	2033	1.23195735	0.13001656	No Reduction	No Reduction	0.08277113	0.07614944
0.210123341	0.193313474	91	2033	0.18292763	0.01106547	No Reduction	No Reduction	0.00956061	0.00879576
0.153109204	0.140860465	56	2033	0.08192883	0.00495843	No Reduction	No Reduction	0.00428706	0.00394409
0.087659183	0.08064645	26	2033	0.02175196	0.00131711	No Reduction	No Reduction	0.00113957	0.0010484
0.152335079	0.140148277	38	2033	0.055203	0.00334375	No Reduction	No Reduction	0.00289437	0.00266282
0.167339095	0.153951967	33	2033	0.05261503	0.00318817	No Reduction	No Reduction	0.0027611	0.00254021
0.204407375	0.188054781	32	2033	0.06105035	0.0037078	No Reduction	No Reduction	0.00327052	0.00300888

0.091556646	56	0.00163494	11.40207229	2030
0.022476112	25	0.000899044	6.269936237	2030
0.061698763	38	0.001623652	11.32334664	2030
0.058809874	33	0.001782117	12.42848664	2030
0.064111031	31	0.002068098	14.42291379	2030
0.139254846	41	0.00339646	23.68690966	2030
0.138641142	37	0.003747058	26.1319817	2030
0.012431084	10	0.001243108	8.669437723	2030
0.00060783	2	0.000303915	2.119503016	2030
0.509192526	330	0.001543008	10.76093539	2031
15.23359068	1616	0.009426727	65.74199344	2031
9.32710075	1155	0.008075412	56.31792262	2031
0.405311542	223	0.001817541	12.67552777	2031
1.440881348	371	0.003883777	27.08546231	2031
0.204105218	91	0.002242914	15.64208557	2031
0.09142134	56	0.001632524	11.38522193	2031
0.022442896	25	0.000897716	6.260670322	2031
0.061607582	38	0.001621252	11.30661263	2031
0.058722963	33	0.001779484	12.41011942	2031
0.068212982	32	0.002131656	14.86616685	2031
0.139049051	41	0.00339144	23.65190437	2031
0.138436253	37	0.00374152	26.09336301	2031
0.012412713	10	0.001241271	8.656625746	2031
0.000606932	2	0.000303466	2.116370745	2031
0.514622734	332	0.001550068	10.81017755	2032
15.22994266	1617	0.009418641	65.68560305	2032
9.345619104	1157	0.008077458	56.33219329	2032
0.408351298	224	0.001822997	12.71358016	2032
1.438755108	371	0.003878046	27.0454936	2032
0.203804029	91	0.002239605	15.6190033	2032
0.091286434	56	0.001630115	11.36842131	2032
0.022409778	25	0.000896391	6.251431753	2032
0.061516671	38	0.00161886	11.28992801	2032
0.058636308	33	0.001776858	12.39180641	2032
0.068112324	32	0.00212851	14.84422957	2032
0.138843863	41	0.003386436	23.6170024	2032
0.13823197	37	0.003735999	26.05485829	2032
0.012394396	10	0.00123944	8.643851581	2032
0.000606036	2	0.000303018	2.113247719	2032
0.513990675	332	0.001548165	10.79690049	2033
15.21123726	1617	0.009407073	65.60492803	2033
9.366438861	1159	0.008081483	56.36026283	2033
0.407849762	224	0.001820758	12.69796534	2033
1.444745037	372	0.003883723	27.08508571	2033
0.203553717	91	0.002236854	15.59982005	2033
0.091174316	56	0.001628113	11.35445862	2033
0.024208647	26	0.000931102	6.493503897	2033
0.061441116	38	0.001616871	11.27606172	2033
0.058564291	33	0.001774675	12.3765868	2033
0.068028668	32	0.002125896	14.82599789	2033

	12000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2033	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.05%	0.06%	No Reduct	No Reduct	0.12%	0.12%	2033	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2033	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%	2033	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	1.25%	1.28%	No Reduct	No Reduct	2.43%	2.43%	2034	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	5.80%	5.97%	No Reduct	No Reduct	11.41%	11.41%	2034	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	4.03%	4.16%	No Reduct	No Reduct	7.98%	7.98%	2034	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.76%	0.79%	No Reduct	No Reduct	1.52%	1.52%	2034	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	1.23%	1.28%	No Reduct	No Reduct	2.46%	2.46%	2034	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.15%	0.18%	No Reduct	No Reduct	0.36%	0.36%	2034	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.09%	0.11%	No Reduct	No Reduct	0.22%	0.22%	2034	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2034	8000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2034	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.06%	0.07%	No Reduct	No Reduct	0.14%	0.14%	2034	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.05%	0.06%	No Reduct	No Reduct	0.12%	0.12%	2034	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2034	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2034	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.05%	0.06%	No Reduct	No Reduct	0.12%	0.12%	2034	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2034	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%	2034	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	1.25%	1.28%	No Reduct	No Reduct	2.43%	2.43%	2035	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	5.80%	5.97%	No Reduct	No Reduct	11.41%	11.41%	2035	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	4.03%	4.17%	No Reduct	No Reduct	7.99%	7.99%	2035	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.76%	0.79%	No Reduct	No Reduct	1.51%	1.51%	2035	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	1.23%	1.28%	No Reduct	No Reduct	2.47%	2.47%	2035	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.15%	0.18%	No Reduct	No Reduct	0.36%	0.36%	2035	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.09%	0.11%	No Reduct	No Reduct	0.22%	0.22%	2035	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2035	8000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2035	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.06%	0.07%	No Reduct	No Reduct	0.14%	0.14%	2035	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.05%	0.06%	No Reduct	No Reduct	0.12%	0.12%	2035	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.04%	0.05%	No Reduct	No Reduct	0.10%	0.10%	2035	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.05%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2035	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.05%	0.06%	No Reduct	No Reduct	0.12%	0.12%	2035	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2035	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.01%	0.01%	2035	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176

16846.89225	19.81478506	251.5875537	231.4605494	2033	012000	Construction	C.1 Well Drilling	6.21851152	0.37774457	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2033	013000	Construction	C.1 Well Drilling	6.69690752	0.40686321	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2033	014000	Construction	C.1 Well Drilling	2.221693167	0.134992531	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2033	015000	Construction	C.1 Well Drilling	0.5431505	0.033005538	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2034	001000	Construction	C.1 Well Drilling	2.655033912	0.272298536	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2034	002000	Construction	C.1 Well Drilling	16.08913149	1.668518903	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2034	003000	Construction	C.1 Well Drilling	13.80676059	1.44170768	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2034	004000	Construction	C.1 Well Drilling	3.103244226	0.325561394	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2034	005000	Construction	C.1 Well Drilling	6.613679095	0.697985055	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2034	006000	Construction	C.1 Well Drilling	4.014470871	0.24283927	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2034	007000	Construction	C.1 Well Drilling	2.921723564	0.176826055	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2034	008000	Construction	C.1 Well Drilling	1.670765443	0.101167414	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2034	009000	Construction	C.1 Well Drilling	2.901145138	0.175727933	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2034	010000	Construction	C.1 Well Drilling	3.184096871	0.192937787	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2034	011000	Construction	C.1 Well Drilling	3.810031484	0.231396493	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2034	012000	Construction	C.1 Well Drilling	6.209359921	0.377188655	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2034	013000	Construction	C.1 Well Drilling	6.68705188	0.406264442	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2034	014000	Construction	C.1 Well Drilling	2.218423567	0.134793866	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2034	015000	Construction	C.1 Well Drilling	0.542351162	0.032956965	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2035	001000	Construction	C.1 Well Drilling	2.651132319	0.271898391	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2035	002000	Construction	C.1 Well Drilling	16.0952393	1.66915231	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2035	003000	Construction	C.1 Well Drilling	13.81022076	1.442068992	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2035	004000	Construction	C.1 Well Drilling	3.098683984	0.325082979	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2035	005000	Construction	C.1 Well Drilling	6.621712823	0.698832907	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2035	006000	Construction	C.1 Well Drilling	4.008571575	0.242482416	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2035	007000	Construction	C.1 Well Drilling	2.917430069	0.176566207	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2035	008000	Construction	C.1 Well Drilling	1.66831024	0.101018747	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2035	009000	Construction	C.1 Well Drilling	2.896881883	0.175469699	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2035	010000	Construction	C.1 Well Drilling	3.179417816	0.192654264	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2035	011000	Construction	C.1 Well Drilling	3.804432613	0.231056454	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2035	012000	Construction	C.1 Well Drilling	6.200235219	0.376634373	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2035	013000	Construction	C.1 Well Drilling	6.677225205	0.405667433	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2035	014000	Construction	C.1 Well Drilling	2.215163577	0.134595786	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2035	015000	Construction	C.1 Well Drilling	0.541554172	0.032908534	No Reduction	No Reduction

0.333285919	0.30662304	42	2033	0.13058874	0.00793264	No Reduction	No Reduction	0.006999	0.00643908
0.359050528	0.330326492	37	2033	0.12389279	0.00752697	No Reduction	No Reduction	0.00664243	0.00611104
0.11914889	0.109616978	10	2033	0.01110847	0.00067496	No Reduction	No Reduction	0.00059574	0.00054808
0.029135682	0.026804828	2	2033	0.00054315	3.3006E-05	No Reduction	No Reduction	2.9136E-05	2.6805E-05
0.173752709	0.159852488	333	2034	0.44206315	0.04533771	No Reduction	No Reduction	0.02892983	0.02661544
1.063661929	0.97856903	1620	2034	13.0321965	1.35150031	No Reduction	No Reduction	0.86156616	0.79264091
0.91856146	0.845076539	1161	2034	8.01482452	0.83691131	No Reduction	No Reduction	0.53322493	0.49056693
0.207350997	0.190762937	224	2034	0.34756335	0.03646288	No Reduction	No Reduction	0.02322331	0.02136545
0.444351163	0.408803072	372	2034	1.23014431	0.12982522	No Reduction	No Reduction	0.08264932	0.07603737
0.209814109	0.19302898	91	2034	0.18265842	0.01104919	No Reduction	No Reduction	0.00954654	0.00878282
0.152883877	0.140653165	56	2034	0.08180826	0.00495113	No Reduction	No Reduction	0.00428075	0.00393829
0.087530178	0.080527765	26	2034	0.02171995	0.00131518	No Reduction	No Reduction	0.00113789	0.00104686
0.152110892	0.139942025	38	2034	0.05512176	0.00333883	No Reduction	No Reduction	0.00289011	0.0026589
0.167092827	0.1537254	33	2034	0.0525376	0.00318347	No Reduction	No Reduction	0.00275703	0.00253647
0.204106555	0.187778027	32	2034	0.0609605	0.00370234	No Reduction	No Reduction	0.0032657	0.00300445
0.332795432	0.306171792	42	2034	0.13039656	0.00792096	No Reduction	No Reduction	0.0069887	0.00642961
0.358522124	0.32984036	37	2034	0.12371046	0.00751589	No Reduction	No Reduction	0.00663266	0.00610205
0.118973542	0.109455658	10	2034	0.01109212	0.00067397	No Reduction	No Reduction	0.00059487	0.00054728
0.029092804	0.02676538	2	2034	0.00054235	3.2957E-05	No Reduction	No Reduction	2.9093E-05	2.6765E-05
0.173497378	0.159617584	333	2035	0.44141353	0.04527108	No Reduction	No Reduction	0.02888731	0.02657633
1.064065719	0.978940517	1623	2035	13.0612867	1.3545171	No Reduction	No Reduction	0.86348933	0.79441023
0.918791664	0.845288327	1163	2035	8.03064337	0.83856312	No Reduction	No Reduction	0.53427735	0.49153516
0.207046294	0.190482609	224	2035	0.34705261	0.03640929	No Reduction	No Reduction	0.02318918	0.02133405
0.444890922	0.409299651	373	2035	1.23494944	0.13033234	No Reduction	No Reduction	0.08297216	0.07633438
0.209505785	0.192745323	91	2035	0.18239001	0.01103295	No Reduction	No Reduction	0.00953251	0.00876991
0.152659213	0.140446474	56	2035	0.08168804	0.00494385	No Reduction	No Reduction	0.00427446	0.0039325
0.087401552	0.080409429	26	2035	0.02168803	0.00131324	No Reduction	No Reduction	0.00113622	0.00104532
0.151887364	0.139736379	38	2035	0.05504076	0.00333392	No Reduction	No Reduction	0.00288586	0.00265499
0.166847283	0.153499499	33	2035	0.05246039	0.0031788	No Reduction	No Reduction	0.00275298	0.00253274
0.203806619	0.187502086	32	2035	0.06087092	0.0036969	No Reduction	No Reduction	0.00326091	0.00300003
0.332306386	0.305721871	42	2035	0.13020494	0.00790932	No Reduction	No Reduction	0.00697843	0.00642016
0.357995273	0.329355657	37	2035	0.12352867	0.00750485	No Reduction	No Reduction	0.00662291	0.00609308
0.118798709	0.109294812	10	2035	0.01107582	0.00067298	No Reduction	No Reduction	0.00059399	0.00054647
0.029050052	0.026726048	2	2035	0.00054155	3.2909E-05	No Reduction	No Reduction	2.905E-05	2.6726E-05

0.145520382	42	0.003464771	24.16331299	2033
0.138062193	37	0.003731411	26.02285773	2033
0.012379173	10	0.001237917	8.633235207	2033
0.000605292	2	0.000302646	2.110652229	2033
0.516330679	333	0.001550543	10.81348394	2034
15.24526298	1620	0.009410656	65.62991608	2034
9.38496076	1161	0.008083515	56.37443268	2034
0.407249541	224	0.001818078	12.67927812	2034
1.442618848	372	0.003878008	27.04522539	2034
0.203254153	91	0.002233562	15.57686226	2034
0.091040138	56	0.001625717	11.3377486	2034
0.024173019	26	0.000929732	6.4839476	2034
0.061350695	38	0.001614492	11.25946708	2034
0.058478104	33	0.001772064	12.35837254	2034
0.067928553	32	0.002122767	14.80417891	2034
0.145306224	42	0.003459672	24.12775255	2034
0.137859011	37	0.003725919	25.98456066	2034
0.012360955	10	0.001236095	8.620529931	2034
0.000604401	2	0.0003022	2.107546045	2034
0.515571927	333	0.001548264	10.79759344	2035
15.27929312	1623	0.009414229	65.65483069	2035
9.403483841	1163	0.008085541	56.38856089	2035
0.406651085	224	0.001815407	12.66064583	2035
1.448253936	373	0.003882718	27.07807761	2035
0.20295547	91	0.00223028	15.55397194	2035
0.090906354	56	0.001623328	11.32108769	2035
0.024137497	26	0.000928365	6.474419389	2035
0.06126054	38	0.001612119	11.2429212	2035
0.058392169	33	0.00176946	12.34021182	2035
0.067828731	32	0.002119648	14.78242406	2035
0.145092696	42	0.003454588	24.09229664	2035
0.137656426	37	0.003720444	25.94637615	2035
0.01234279	10	0.001234279	8.607861996	2035
0.000603513	2	0.000301756	2.10444899	2035

Engines 121<hp<175 Percentages by Well Depth and Pollutant

Well Depth	PMTON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
1,000	Emissions for Engines 121<hp<175	0.035538494	0.002499492	0.020974888	0.000024647	0.002110737	0.001941878
	% of total	8.86%	10.25%	6.45%	6.43%	11.71%	11.71%
2,000	Emissions for Engines 121<hp<175	0.047384658	0.003332656	0.027966518	0.000032863	0.002814316	0.002589171
	% of total	9.01%	10.49%	6.54%	6.52%	12.05%	12.05%
3,000	Emissions for Engines 121<hp<175	0.059230823	0.00416582	0.034958147	0.000041079	0.003517895	0.003236463
	% of total	9.11%	10.64%	6.59%	6.57%	12.26%	12.26%
4,000	Emissions for Engines 121<hp<175	0.071076988	0.004998983	0.041949777	0.000049295	0.004221474	0.003883756
	% of total	9.17%	10.75%	6.63%	6.61%	12.40%	12.40%
5,000	Emissions for Engines 121<hp<175	0.094769317	0.006665311	0.055933036	0.000065726	0.005628632	0.005178341
	% of total	9.25%	10.88%	6.67%	6.66%	12.59%	12.59%
6,000	Emissions for Engines 121<hp<175	0.126359089	0.008887082	0.074577381	0.000087635	0.007504843	0.006904455
	% of total	4.93%	6.67%	3.76%	3.76%	8.16%	8.16%
7,000	Emissions for Engines 121<hp<175	0.151630907	0.010664498	0.089492857	0.000105162	0.009005811	0.008285346
	% of total	4.94%	6.69%	3.77%	3.77%	8.19%	8.19%
8,000	Emissions for Engines 121<hp<175	0.189538633	0.013330623	0.111866071	0.000131453	0.011257264	0.010356683
	% of total	4.95%	6.71%	3.78%	3.77%	8.22%	8.22%
9,000	Emissions for Engines 121<hp<175	0.22744636	0.015996747	0.134239286	0.000157743	0.013508717	0.012428019
	% of total	4.96%	6.72%	3.78%	3.78%	8.24%	8.24%
10,000	Emissions for Engines 121<hp<175	0.290625905	0.020440288	0.171527976	0.000201561	0.017261138	0.015880247
	% of total	4.96%	6.74%	3.78%	3.78%	8.26%	8.26%
11,000	Emissions for Engines 121<hp<175	0.388203201	0.02730309	0.229118287	0.000269235	0.023056544	0.021212021
	% of total	4.46%	6.17%	3.40%	3.40%	7.65%	7.65%
12,000	Emissions for Engines 121<hp<175	0.485254001	0.034128862	0.286397859	0.000336543	0.02882068	0.026515026
	% of total	4.46%	6.17%	3.40%	3.40%	7.66%	7.66%
13,000	Emissions for Engines 121<hp<175	0.596169202	0.041929745	0.351860227	0.000413468	0.035408264	0.032575603
	% of total	4.47%	6.18%	3.40%	3.40%	7.67%	7.67%
14,000	Emissions for Engines 121<hp<175	0.734813202	0.051680849	0.433688186	0.000509623	0.043642744	0.040151325
	% of total	4.47%	6.18%	3.40%	3.40%	7.68%	7.68%
15,000	Emissions for Engines 121<hp<175	0.901186003	0.063382173	0.531881738	0.000625009	0.05352412	0.049242191
	% of total	4.47%	6.18%	3.40%	3.40%	7.68%	7.68%

Drilled Well Percentages by Year Associated with Each Well Depth

Well Depth	2012	2015	2016	2017	2018	2019
1,000	305	323	323	323	325	325
	8.99%	8.14%	8.14%	8.12%	8.16%	8.15%
2,000	1,414	1,575	1,577	1,581	1,582	1,586
	41.69%	39.71%	39.72%	39.76%	39.73%	39.77%
3,000	930	1,128	1,130	1,131	1,133	1,134
	27.42%	28.44%	28.46%	28.45%	28.45%	28.44%
4,000	174	218	218	219	219	219
	5.13%	5.50%	5.49%	5.51%	5.50%	5.49%
5,000	300	363	363	363	364	365
	8.84%	9.15%	9.14%	9.13%	9.14%	9.15%
6,000	69	89	89	89	89	89
	2.03%	2.24%	2.24%	2.24%	2.24%	2.23%
7,000	44	55	55	55	55	55
	1.30%	1.39%	1.39%	1.38%	1.38%	1.38%
8,000	23	25	25	25	25	25
	0.68%	0.63%	0.63%	0.63%	0.63%	0.63%
9,000	33	37	37	37	37	37
	0.97%	0.93%	0.93%	0.93%	0.93%	0.93%
10,000	21	33	33	33	33	33
	0.62%	0.83%	0.83%	0.83%	0.83%	0.83%
11,000	25	31	31	31	31	31
	0.74%	0.78%	0.78%	0.78%	0.78%	0.78%
12,000	27	41	41	41	41	41
	0.80%	1.03%	1.03%	1.03%	1.03%	1.03%
13,000	20	36	36	36	36	36
	0.59%	0.91%	0.91%	0.91%	0.90%	0.90%
14,000	6	10	10	10	10	10
	0.18%	0.25%	0.25%	0.25%	0.25%	0.25%
15,000	1	2	2	2	2	2
	0.03%	0.05%	0.05%	0.05%	0.05%	0.05%
Total Wells:	3392	3966	3970	3976	3982	3988
	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
326	326	326	327	327	328	328	329	329	330	330	330	332	332	333	333
8.16%	8.15%	8.14%	8.15%	8.14%	8.15%	8.14%	8.15%	8.14%	8.15%	8.14%	8.13%	8.17%	8.16%	8.17%	8.16%
1,588	1,590	1,595	1,598	1,599	1,601	1,603	1,604	1,608	1,610	1,613	1,616	1,617	1,617	1620	1623
39.76%	39.75%	39.82%	39.83%	39.80%	39.79%	39.78%	39.74%	39.78%	39.77%	39.79%	39.80%	39.77%	39.72%	39.74%	39.75%
1,136	1,139	1,140	1,141	1,142	1,144	1,146	1,148	1,150	1,152	1,153	1,155	1,157	1,159	1161	1163
28.44%	28.48%	28.46%	28.44%	28.42%	28.43%	28.44%	28.44%	28.45%	28.46%	28.44%	28.45%	28.46%	28.47%	28.48%	28.48%
220	220	220	221	221	221	222	222	222	222	223	223	224	224	224	224
5.51%	5.50%	5.49%	5.51%	5.50%	5.49%	5.51%	5.50%	5.49%	5.48%	5.50%	5.49%	5.51%	5.50%	5.49%	5.49%
365	366	366	366	368	368	368	369	369	370	371	371	371	372	372	373
9.14%	9.15%	9.14%	9.12%	9.16%	9.15%	9.13%	9.14%	9.13%	9.14%	9.15%	9.14%	9.12%	9.14%	9.12%	9.14%
89	89	89	89	91	91	91	91	91	91	91	91	91	91	91	91
2.23%	2.23%	2.22%	2.22%	2.26%	2.26%	2.26%	2.25%	2.25%	2.25%	2.24%	2.24%	2.24%	2.24%	2.23%	2.23%
55	55	55	55	55	56	56	56	56	56	56	56	56	56	56	56
1.38%	1.38%	1.37%	1.37%	1.37%	1.39%	1.39%	1.39%	1.39%	1.38%	1.38%	1.38%	1.38%	1.38%	1.37%	1.37%
25	25	25	25	25	25	25	25	25	25	25	25	25	26	26	26
0.63%	0.63%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.61%	0.64%	0.64%	0.64%
37	37	37	37	37	37	37	38	38	38	38	38	38	38	38	38
0.93%	0.93%	0.92%	0.92%	0.92%	0.92%	0.92%	0.94%	0.94%	0.94%	0.94%	0.94%	0.93%	0.93%	0.93%	0.93%
33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
0.83%	0.83%	0.82%	0.82%	0.82%	0.82%	0.82%	0.82%	0.82%	0.82%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%
31	31	31	31	31	31	31	31	31	31	31	32	32	32	32	32
0.78%	0.78%	0.77%	0.77%	0.77%	0.77%	0.77%	0.77%	0.77%	0.77%	0.76%	0.79%	0.79%	0.79%	0.78%	0.78%
41	41	41	41	41	41	41	41	41	41	41	41	41	42	42	42
1.03%	1.03%	1.02%	1.02%	1.02%	1.02%	1.02%	1.02%	1.01%	1.01%	1.01%	1.01%	1.01%	1.03%	1.03%	1.03%
36	36	36	36	36	36	37	37	37	37	37	37	37	37	37	37
0.90%	0.90%	0.90%	0.90%	0.90%	0.89%	0.92%	0.92%	0.92%	0.91%	0.91%	0.91%	0.91%	0.91%	0.91%	0.91%
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.24%
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%
3994	4000	4006	4012	4018	4024	4030	4036	4042	4048	4054	4060	4066	4071	4077	4083
100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

% Reduction for Tier 4i NOXGBHP	% Reduction for Tier 4f NOXGBHP	% Reduction for Tier 4i ROGGBHP	% Reduction for Tier 4f ROGGBHP	% Reduction for Tier 4i PM10GBHP	% Reduction for Tier 4f PM10GBHP
0.652822	0.959727396	0.7235688	0.7235688	0.976618272	0.976618272

Engines 121<hp<175 Percentages by Well Depth and Pollutant

Well Depth		NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
1000	% of total	0.08856	0.102454	0.064489	0.064319	0.117097	0.117097
2000	% of total	0.090102	0.104912	0.065363	0.065199	0.12046	0.12046
3000	% of total	0.091053	0.106444	0.065898	0.065739	0.122573	0.122573
4000	% of total	0.091699	0.10749	0.06626	0.066104	0.124023	0.124023
5000	% of total	0.092518	0.108828	0.066719	0.066565	0.125884	0.125884
6000	% of total	0.049326	0.066725	0.037647	0.037602	0.081578	0.081578
7000	% of total	0.049414	0.066916	0.037702	0.037658	0.081876	0.081876
8000	% of total	0.049503	0.067109	0.037757	0.037714	0.082177	0.082177
9000	% of total	0.049562	0.067238	0.037794	0.037751	0.082379	0.082379
10000	% of total	0.049626	0.067378	0.037834	0.037792	0.082599	0.082599
11000	% of total	0.044615	0.061666	0.033983	0.033951	0.076542	0.076542
12000	% of total	0.044643	0.06173	0.034	0.033969	0.076644	0.076644
13000	% of total	0.044664	0.061777	0.034013	0.033982	0.076721	0.076721
14000	% of total	0.044682	0.061816	0.034024	0.033993	0.076784	0.076784
15000	% of total	0.044695	0.061848	0.034033	0.034002	0.076834	0.076834

Drilled Well Percentages by Year Associated with Each Well Depth

2012	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
0.089917	0.081442	0.08136	0.081237	0.081617	0.081494	0.081622	0.0815	0.081378	0.081505	0.081384
0.416863	0.397126	0.397229	0.397636	0.397288	0.397693	0.397596	0.3975	0.398153	0.398305	0.397959
0.274175	0.284418	0.284635	0.284457	0.28453	0.284353	0.284427	0.28475	0.284573	0.284397	0.284221
0.051297	0.054967	0.054912	0.05508	0.054997	0.054915	0.055083	0.055	0.054918	0.055085	0.055002
0.088443	0.091528	0.091436	0.091298	0.091411	0.091525	0.091387	0.0915	0.091363	0.091226	0.091588
0.020342	0.022441	0.022418	0.022384	0.022351	0.022317	0.022283	0.02225	0.022217	0.022183	0.022648
0.012972	0.013868	0.013854	0.013833	0.013812	0.013791	0.013771	0.01375	0.013729	0.013709	0.013688
0.006781	0.006304	0.006297	0.006288	0.006278	0.006269	0.006259	0.00625	0.006241	0.006231	0.006222
0.009729	0.009329	0.00932	0.009306	0.009292	0.009278	0.009264	0.00925	0.009236	0.009222	0.009209
0.006191	0.008321	0.008312	0.0083	0.008287	0.008275	0.008262	0.00825	0.008238	0.008225	0.008213
0.00737	0.007816	0.007809	0.007797	0.007785	0.007773	0.007762	0.00775	0.007738	0.007727	0.007715
0.00796	0.010338	0.010327	0.010312	0.010296	0.010281	0.010265	0.01025	0.010235	0.010219	0.010204
0.005896	0.009077	0.009068	0.009054	0.009041	0.009027	0.009014	0.009	0.008987	0.008973	0.00896
0.001769	0.002521	0.002519	0.002515	0.002511	0.002508	0.002504	0.0025	0.002496	0.002493	0.002489
0.000295	0.000504	0.000504	0.000503	0.000502	0.000502	0.000501	0.0005	0.000499	0.000499	0.000498

Combined Percentages for Engines 121<hp<175 and Drilled Wells

	2012						2015						2016						
	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
1000	0.007963	0.009212	0.005799	0.005783	0.010529	0.010529	0.007213	0.008344	0.005252	0.005238	0.009537	0.009537	0.007205	0.008336	0.005247	0.005233	0.009527	0.009527	0.007194
2000	0.03756	0.043734	0.027247	0.027179	0.050215	0.050215	0.035782	0.041663	0.025957	0.025892	0.047838	0.047838	0.035791	0.041674	0.025964	0.025899	0.04785	0.04785	0.035828
3000	0.024965	0.029184	0.018068	0.018024	0.033606	0.033606	0.025897	0.030275	0.018743	0.018697	0.034862	0.034862	0.025917	0.030298	0.018757	0.018712	0.034888	0.034888	0.025901
4000	0.004704	0.005514	0.003399	0.003391	0.006362	0.006362	0.00504	0.005908	0.003642	0.003634	0.006817	0.006817	0.005035	0.005902	0.003638	0.00363	0.00681	0.00681	0.005051
5000	0.008183	0.009625	0.005901	0.005887	0.011134	0.011134	0.008468	0.009961	0.006107	0.006093	0.011522	0.011522	0.008459	0.009951	0.0061	0.006086	0.01151	0.01151	0.008447
6000	0.001003	0.001357	0.000766	0.000765	0.001659	0.001659	0.001107	0.001497	0.000845	0.000844	0.001831	0.001831	0.001106	0.001496	0.000844	0.000843	0.001829	0.001829	0.001104
7000	0.000641	0.000868	0.000489	0.000488	0.001062	0.001062	0.000685	0.000928	0.000523	0.000522	0.001135	0.001135	0.000685	0.000927	0.000522	0.000522	0.001134	0.001134	0.000684
8000	0.000336	0.000455	0.000256	0.000256	0.000557	0.000557	0.000312	0.000423	0.000238	0.000238	0.000518	0.000518	0.000312	0.000423	0.000238	0.000237	0.000517	0.000517	0.000311
9000	0.000482	0.000654	0.000368	0.000367	0.000801	0.000801	0.000462	0.000627	0.000353	0.000352	0.000769	0.000769	0.000462	0.000627	0.000352	0.000352	0.000768	0.000768	0.000461
10000	0.000307	0.000417	0.000234	0.000234	0.000511	0.000511	0.000413	0.000561	0.000315	0.000314	0.000687	0.000687	0.000413	0.00056	0.000314	0.000314	0.000687	0.000687	0.000412
11000	0.000329	0.000454	0.00025	0.00025	0.000564	0.000564	0.000349	0.000482	0.000266	0.000265	0.000598	0.000598	0.000348	0.000482	0.000265	0.000265	0.000598	0.000598	0.000348
12000	0.000355	0.000491	0.000271	0.00027	0.00061	0.00061	0.000462	0.000638	0.000351	0.000351	0.000792	0.000792	0.000461	0.000638	0.000351	0.000351	0.000792	0.000792	0.00046
13000	0.000263	0.000364	0.000201	0.0002	0.000452	0.000452	0.000405	0.000561	0.000309	0.000308	0.000696	0.000696	0.000405	0.00056	0.000308	0.000308	0.000696	0.000696	0.000404
14000	7.9E-05	0.000109	6.02E-05	6.01E-05	0.000136	0.000136	0.000113	0.000156	8.58E-05	8.57E-05	0.000194	0.000194	0.000113	0.000156	8.57E-05	8.56E-05	0.000193	0.000193	0.000112
15000	1.32E-05	1.82E-05	1E-05	1E-05	2.27E-05	2.27E-05	2.25E-05	3.12E-05	1.72E-05	1.71E-05	3.87E-05	3.87E-05	2.25E-05	3.12E-05	1.71E-05	1.71E-05	3.87E-05	3.87E-05	2.25E-05

% Reductic	% Reductic	% Reductic	% Reductic	% Reductic	% Reduction for Tier 4f PM10GBHP
0.652822	0.959727	0.723569	0.723569	0.976618	0.976618

Final % Reduction GivenTier 4i

	2012						2015						2016						
	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
1000	0.005198	0.006666	No Reduct	No Reduct	0.010283	0.010283	0.004709	0.006038	No Reduct	No Reduct	0.009314	0.009314	0.004704	0.006031	No Reduct	No Reduct	0.009304	0.009304	0.004697
2000	0.02452	0.031644	No Reduct	No Reduct	0.049041	0.049041	0.023359	0.030146	No Reduct	No Reduct	0.046719	0.046719	0.023365	0.030154	No Reduct	No Reduct	0.046732	0.046732	0.023389
3000	0.016297	0.021117	No Reduct	No Reduct	0.032821	0.032821	0.016906	0.021906	No Reduct	No Reduct	0.034047	0.034047	0.016919	0.021922	No Reduct	No Reduct	0.034073	0.034073	0.016909
4000	0.003071	0.00399	No Reduct	No Reduct	0.006213	0.006213	0.003291	0.004275	No Reduct	No Reduct	0.006658	0.006658	0.003287	0.004271	No Reduct	No Reduct	0.006651	0.006651	0.003297
5000	0.005342	0.006964	No Reduct	No Reduct	0.010873	0.010873	0.005528	0.007207	No Reduct	No Reduct	0.011253	0.011253	0.005523	0.0072	No Reduct	No Reduct	0.011241	0.011241	0.005514

2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
0.081511	0.08139	0.081516	0.081395	0.081522	0.081401	0.081281	0.081653	0.081552	0.081678	0.081558
0.397863	0.397767	0.397423	0.397823	0.397727	0.397879	0.39803	0.397688	0.3972	0.397351	0.397502
0.284294	0.284367	0.28444	0.284513	0.284585	0.28441	0.284483	0.284555	0.284697	0.284768	0.28484
0.05492	0.055087	0.055005	0.054923	0.054842	0.055007	0.054926	0.055091	0.055023	0.054942	0.054862
0.091451	0.091315	0.091427	0.091291	0.091403	0.091515	0.091379	0.091244	0.091378	0.091244	0.091354
0.022614	0.022581	0.022547	0.022514	0.02248	0.022447	0.022414	0.022381	0.022353	0.02232	0.022288
0.013917	0.013896	0.013875	0.013855	0.013834	0.013814	0.013793	0.013773	0.013756	0.013736	0.013715
0.006213	0.006203	0.006194	0.006185	0.006176	0.006167	0.006158	0.006149	0.006387	0.006377	0.006368
0.009195	0.009181	0.009415	0.009401	0.009387	0.009373	0.00936	0.009346	0.009334	0.009321	0.009307
0.008201	0.008189	0.008176	0.008164	0.008152	0.00814	0.008128	0.008116	0.008106	0.008094	0.008082
0.007704	0.007692	0.007681	0.007669	0.007658	0.007647	0.007882	0.00787	0.00786	0.007849	0.007837
0.010189	0.010174	0.010159	0.010143	0.010128	0.010113	0.010099	0.010084	0.010317	0.010302	0.010287
0.008946	0.009181	0.009167	0.009154	0.00914	0.009127	0.009113	0.0091	0.009089	0.009075	0.009062
0.002485	0.002481	0.002478	0.002474	0.00247	0.002467	0.002463	0.002459	0.002456	0.002453	0.002449
0.000497	0.000496	0.000496	0.000495	0.000494	0.000493	0.000493	0.000492	0.000491	0.000491	0.00049

	2017						2018						2019						20	
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	
0.008323	0.005239	0.005225	0.009513	0.009513	0.007228	0.008362	0.005263	0.00525	0.009557	0.009557	0.007217	0.008349	0.005256	0.005242	0.009543	0.009543	0.007229	0.008363	0.005264	
0.041717	0.025991	0.025925	0.047899	0.047899	0.035796	0.04168	0.025968	0.025903	0.047857	0.047857	0.035833	0.041723	0.025994	0.025929	0.047906	0.047906	0.035824	0.041713	0.025988	
0.030279	0.018745	0.0187	0.034867	0.034867	0.025907	0.030287	0.01875	0.018705	0.034876	0.034876	0.025891	0.030268	0.018738	0.018693	0.034854	0.034854	0.025898	0.030275	0.018743	
0.005921	0.00365	0.003641	0.006831	0.006831	0.005043	0.005912	0.003644	0.003636	0.006821	0.006821	0.005036	0.005903	0.003639	0.00363	0.006811	0.006811	0.005051	0.005921	0.00365	
0.009936	0.006091	0.006077	0.011493	0.011493	0.008457	0.009948	0.006099	0.006085	0.011507	0.011507	0.008468	0.00996	0.006106	0.006092	0.011521	0.011521	0.008455	0.009945	0.006097	
0.001494	0.000843	0.000842	0.001826	0.001826	0.001102	0.001491	0.000841	0.00084	0.001823	0.001823	0.001101	0.001489	0.00084	0.000839	0.001821	0.001821	0.001099	0.001487	0.000839	
0.000926	0.000522	0.000521	0.001133	0.001133	0.000683	0.000924	0.000521	0.00052	0.001131	0.001131	0.000681	0.000923	0.00052	0.000519	0.001129	0.001129	0.00068	0.000921	0.000519	
0.000422	0.000237	0.000237	0.000517	0.000517	0.000311	0.000421	0.000237	0.000237	0.000516	0.000516	0.00031	0.000421	0.000237	0.000236	0.000515	0.000515	0.00031	0.00042	0.000236	
0.000626	0.000352	0.000351	0.000767	0.000767	0.000461	0.000625	0.000351	0.000351	0.000765	0.000765	0.00046	0.000624	0.000351	0.00035	0.000764	0.000764	0.000459	0.000623	0.00035	
0.000559	0.000314	0.000314	0.000686	0.000686	0.000411	0.000558	0.000314	0.000313	0.000685	0.000685	0.000411	0.000558	0.000313	0.000313	0.000683	0.000683	0.00041	0.000557	0.000313	
0.000481	0.000265	0.000265	0.000597	0.000597	0.000347	0.00048	0.000265	0.000264	0.000596	0.000596	0.000347	0.000479	0.000264	0.000264	0.000595	0.000595	0.000346	0.000479	0.000264	
0.000637	0.000351	0.00035	0.00079	0.00079	0.00046	0.000636	0.00035	0.00035	0.000789	0.000789	0.000459	0.000635	0.00035	0.000349	0.000788	0.000788	0.000458	0.000634	0.000349	
0.000559	0.000308	0.000308	0.000695	0.000695	0.000404	0.000559	0.000308	0.000307	0.000694	0.000694	0.000403	0.000558	0.000307	0.000307	0.000693	0.000693	0.000403	0.000557	0.000307	
0.000155	8.56E-05	8.55E-05	0.000193	0.000193	0.000112	0.000155	8.54E-05	8.54E-05	0.000193	0.000193	0.000112	0.000155	8.53E-05	8.52E-05	0.000193	0.000193	0.000112	0.000155	8.52E-05	
3.11E-05	1.71E-05	1.71E-05	3.86E-05	3.86E-05	2.24E-05	3.11E-05	1.71E-05	1.71E-05	3.86E-05	3.86E-05	2.24E-05	3.1E-05	1.71E-05	1.71E-05	3.85E-05	3.85E-05	2.24E-05	3.1E-05	1.7E-05	

	2017						2018						2019						20	
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	
0.006022	No Reduct	No Reduct	0.00929	0.00929	0.004719	0.006051	No Reduct	No Reduct	0.009334	0.009334	0.004712	0.006041	No Reduct	No Reduct	0.00932	0.00932	0.004719	0.006051	No Reduct	
0.030185	No Reduct	No Reduct	0.046779	0.046779	0.023369	0.030159	No Reduct	No Reduct	0.046738	0.046738	0.023393	0.030189	No Reduct	No Reduct	0.046786	0.046786	0.023387	0.030182	No Reduct	
0.021909	No Reduct	No Reduct	0.034051	0.034051	0.016913	0.021914	No Reduct	No Reduct	0.03406	0.03406	0.016902	0.021901	No Reduct	No Reduct	0.034039	0.034039	0.016907	0.021906	No Reduct	
0.004284	No Reduct	No Reduct	0.006672	0.006671	0.003292	0.004278	No Reduct	No Reduct	0.006661	0.006661	0.003287	0.004271	No Reduct	No Reduct	0.006651	0.006651	0.003297	0.004284	No Reduct	
0.007189	No Reduct	No Reduct	0.011224	0.011224	0.005521	0.007198	No Reduct	No Reduct	0.011238	0.011238	0.005528	0.007207	No Reduct	No Reduct	0.011252	0.011252	0.00552	0.007196	No Reduct	

20						2021						2022						2023		
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON
0.00525	0.009558	0.009558	0.007218	0.00835	0.005256	0.005242	0.009543	0.009543	0.007207	0.008338	0.005248	0.005234	0.009529	0.009529	0.007218	0.008351	0.005256	0.005242	0.009544
0.025923	0.047895	0.047895	0.035816	0.041702	0.025982	0.025917	0.047883	0.047883	0.035874	0.041771	0.026024	0.025959	0.047962	0.047962	0.035888	0.041787	0.026034	0.025969	0.04798
0.018698	0.034863	0.034863	0.025927	0.03031	0.018765	0.018719	0.034903	0.034903	0.025911	0.030291	0.018753	0.018708	0.034881	0.034881	0.025895	0.030272	0.018741	0.018696	0.034859
0.003641	0.006831	0.006831	0.005043	0.005912	0.003644	0.003636	0.006821	0.006821	0.005036	0.005903	0.003639	0.00363	0.006811	0.006811	0.005051	0.005921	0.00365	0.003641	0.006832
0.006083	0.011504	0.011504	0.008465	0.009958	0.006105	0.006091	0.011518	0.011518	0.008453	0.009943	0.006096	0.006082	0.011501	0.011501	0.00844	0.009928	0.006086	0.006072	0.011484
0.000838	0.001818	0.001818	0.001097	0.001485	0.000838	0.000837	0.001815	0.001815	0.001096	0.001482	0.000836	0.000835	0.001812	0.001812	0.001094	0.00148	0.000835	0.000834	0.00181
0.000519	0.001127	0.001127	0.000679	0.00092	0.000518	0.000518	0.001126	0.001126	0.000678	0.000919	0.000518	0.000517	0.001124	0.001124	0.000677	0.000917	0.000517	0.000516	0.001122
0.000236	0.000514	0.000514	0.000309	0.000419	0.000236	0.000236	0.000514	0.000514	0.000309	0.000419	0.000236	0.000235	0.000513	0.000513	0.000308	0.000418	0.000235	0.000235	0.000512
0.00035	0.000763	0.000763	0.000458	0.000622	0.00035	0.000349	0.000762	0.000762	0.000458	0.000621	0.000349	0.000349	0.000761	0.000761	0.000457	0.00062	0.000349	0.000348	0.00076
0.000312	0.000682	0.000682	0.000409	0.000556	0.000312	0.000312	0.000681	0.000681	0.000409	0.000555	0.000312	0.000311	0.00068	0.00068	0.000408	0.000554	0.000311	0.000311	0.000679
0.000264	0.000594	0.000594	0.000346	0.000478	0.000263	0.000263	0.000593	0.000593	0.000345	0.000477	0.000263	0.000263	0.000592	0.000592	0.000345	0.000476	0.000263	0.000262	0.000591
0.000349	0.000787	0.000787	0.000458	0.000633	0.000349	0.000348	0.000786	0.000786	0.000457	0.000632	0.000348	0.000348	0.000784	0.000784	0.000456	0.000631	0.000347	0.000347	0.000783
0.000306	0.000692	0.000692	0.000402	0.000556	0.000306	0.000306	0.00069	0.00069	0.000401	0.000555	0.000306	0.000305	0.000689	0.000689	0.000401	0.000554	0.000305	0.000305	0.000688
8.51E-05	0.000192	0.000192	0.000112	0.000155	8.51E-05	8.5E-05	0.000192	0.000192	0.000112	0.000154	8.49E-05	8.49E-05	0.000192	0.000192	0.000111	0.000154	8.48E-05	8.47E-05	0.000191
1.7E-05	3.85E-05	3.85E-05	2.23E-05	3.09E-05	1.7E-05	1.7E-05	3.84E-05	3.84E-05	2.23E-05	3.09E-05	1.7E-05	1.7E-05	3.84E-05	3.84E-05	2.23E-05	3.08E-05	1.7E-05	1.69E-05	3.83E-05

20						2021						2022						2023		
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON
No Reduct	0.009334	0.009334	0.004712	0.006042	No Reduct	No Reduct	0.00932	0.00932	0.004705	0.006033	No Reduct	No Reduct	0.009306	0.009306	0.004712	0.006042	No Reduct	No Reduct	0.009321
No Reduct	0.046775	0.046775	0.023381	0.030175	No Reduct	No Reduct	0.046763	0.046763	0.02342	0.030224	No Reduct	No Reduct	0.04684	0.04684	0.023429	0.030236	No Reduct	No Reduct	0.046858
No Reduct	0.034048	0.034048	0.016926	0.021931	No Reduct	No Reduct	0.034086	0.034086	0.016915	0.021918	No Reduct	No Reduct	0.034065	0.034065	0.016905	0.021904	No Reduct	No Reduct	0.034044
No Reduct	0.006672	0.006672	0.003292	0.004278	No Reduct	No Reduct	0.006662	0.006662	0.003288	0.004271	No Reduct	No Reduct	0.006652	0.006652	0.003298	0.004284	No Reduct	No Reduct	0.006672
No Reduct	0.011235	0.011235	0.005526	0.007205	No Reduct	No Reduct	0.011249	0.011249	0.005518	0.007194	No Reduct	No Reduct	0.011232	0.011232	0.00551	0.007184	No Reduct	No Reduct	0.011215

2024						2025						2026								
PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
0.009544	0.007207	0.008338	0.005248	0.005234	0.00953	0.00953	0.007219	0.008351	0.005257	0.005243	0.009545	0.009545	0.007208	0.008339	0.005249	0.005235	0.00953	0.00953	0.007219
0.04798	0.035857	0.041751	0.026012	0.025947	0.047938	0.047938	0.035848	0.041741	0.026005	0.02594	0.047927	0.047927	0.03584	0.04173	0.025999	0.025934	0.047915	0.047915	0.035809
0.034859	0.025879	0.030254	0.01873	0.018684	0.034838	0.034838	0.025886	0.030261	0.018735	0.018689	0.034847	0.034847	0.025893	0.030269	0.018739	0.018694	0.034856	0.034856	0.025899
0.006832	0.005044	0.005912	0.003644	0.003636	0.006822	0.006822	0.005036	0.005903	0.003639	0.00363	0.006811	0.006811	0.005051	0.005921	0.00365	0.003641	0.006832	0.006832	0.005044
0.011484	0.008474	0.009967	0.006111	0.006097	0.011529	0.011529	0.008461	0.009952	0.006102	0.006087	0.011512	0.011512	0.008448	0.009938	0.006092	0.006078	0.011495	0.011495	0.008459
0.00181	0.001117	0.001511	0.000853	0.000852	0.001848	0.001848	0.001115	0.001509	0.000851	0.00085	0.001845	0.001845	0.001114	0.001507	0.00085	0.000849	0.001842	0.001842	0.001112
0.001122	0.000676	0.000916	0.000516	0.000515	0.001121	0.001121	0.000688	0.000931	0.000525	0.000524	0.001139	0.001139	0.000687	0.00093	0.000524	0.000523	0.001138	0.001138	0.000686
0.000512	0.000308	0.000418	0.000235	0.000235	0.000511	0.000511	0.000308	0.000417	0.000235	0.000234	0.000511	0.000511	0.000307	0.000416	0.000234	0.000234	0.00051	0.00051	0.000307
0.00076	0.000456	0.000619	0.000348	0.000348	0.000759	0.000759	0.000456	0.000618	0.000348	0.000347	0.000757	0.000757	0.000455	0.000617	0.000347	0.000347	0.000756	0.000756	0.000467
0.000679	0.000408	0.000553	0.000311	0.00031	0.000678	0.000678	0.000407	0.000553	0.00031	0.00031	0.000677	0.000677	0.000406	0.000552	0.00031	0.000309	0.000676	0.000676	0.000406
0.000591	0.000344	0.000476	0.000262	0.000262	0.000591	0.000591	0.000344	0.000475	0.000262	0.000262	0.00059	0.00059	0.000343	0.000474	0.000261	0.000261	0.000589	0.000589	0.000343
0.000783	0.000456	0.00063	0.000347	0.000347	0.000782	0.000782	0.000455	0.000629	0.000346	0.000346	0.000781	0.000781	0.000454	0.000628	0.000346	0.000346	0.00078	0.00078	0.000454
0.000688	0.0004	0.000554	0.000305	0.000304	0.000687	0.000687	0.0004	0.000553	0.000304	0.000304	0.000686	0.000686	0.00041	0.000567	0.000312	0.000312	0.000704	0.000704	0.000409
0.000191	0.000111	0.000154	8.47E-05	8.46E-05	0.000191	0.000191	0.000111	0.000154	8.46E-05	8.45E-05	0.000191	0.000191	0.000111	0.000153	8.44E-05	8.43E-05	0.000191	0.000191	0.000111
3.83E-05	2.22E-05	3.08E-05	1.69E-05	1.69E-05	3.82E-05	3.82E-05	2.22E-05	3.07E-05	1.69E-05	1.69E-05	3.82E-05	3.82E-05	2.22E-05	3.07E-05	1.69E-05	1.69E-05	3.81E-05	3.81E-05	2.21E-05

2024						2025						2026								
PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
0.009321	0.004705	0.006033	No Reduct	No Reduct	0.009307	0.009307	0.004712	0.006043	No Reduct	No Reduct	0.009322	0.009322	0.004705	0.006034	No Reduct	No Reduct	0.009308	0.009308	0.004713
0.046858	0.023408	0.030209	No Reduct	No Reduct	0.046817	0.046817	0.023403	0.030202	No Reduct	No Reduct	0.046806	0.046806	0.023397	0.030195	No Reduct	No Reduct	0.046795	0.046795	0.023377
0.034044	0.016895	0.021891	No Reduct	No Reduct	0.034023	0.034023	0.016899	0.021896	No Reduct	No Reduct	0.034032	0.034032	0.016903	0.021902	No Reduct	No Reduct	0.034041	0.034041	0.016908
0.006672	0.003293	0.004278	No Reduct	No Reduct	0.006662	0.006662	0.003288	0.004272	No Reduct	No Reduct	0.006652	0.006652	0.003298	0.004284	No Reduct	No Reduct	0.006672	0.006672	0.003293
0.011215	0.005532	0.007212	No Reduct	No Reduct	0.01126	0.01126	0.005523	0.007201	No Reduct	No Reduct	0.011243	0.011243	0.005515	0.007191	No Reduct	No Reduct	0.011226	0.011226	0.005522

2027						2028						2029						20	
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON
0.008352	0.005257	0.005243	0.009545	0.009545	0.007208	0.008339	0.005249	0.005235	0.009531	0.009531	0.00722	0.008352	0.005257	0.005243	0.009546	0.009546	0.007209	0.00834	0.005249
0.041694	0.025977	0.025912	0.047874	0.047874	0.035845	0.041736	0.026003	0.025938	0.047922	0.047922	0.035836	0.041726	0.025997	0.025931	0.04791	0.04791	0.03585	0.041742	0.026006
0.030277	0.018744	0.018699	0.034865	0.034865	0.025906	0.030285	0.018749	0.018704	0.034873	0.034873	0.025912	0.030292	0.018754	0.018708	0.034882	0.034882	0.025897	0.030274	0.018742
0.005912	0.003645	0.003636	0.006822	0.006822	0.005036	0.005904	0.003639	0.003631	0.006812	0.006812	0.005029	0.005895	0.003634	0.003625	0.006802	0.006802	0.005044	0.005913	0.003645
0.00995	0.0061	0.006086	0.011509	0.011509	0.008446	0.009935	0.006091	0.006077	0.011492	0.011492	0.008456	0.009947	0.006098	0.006084	0.011506	0.011506	0.008467	0.009959	0.006106
0.001504	0.000849	0.000848	0.001839	0.001839	0.00111	0.001502	0.000848	0.000847	0.001837	0.001837	0.001109	0.0015	0.000846	0.000845	0.001834	0.001834	0.001107	0.001498	0.000845
0.000928	0.000523	0.000523	0.001136	0.001136	0.000685	0.000927	0.000522	0.000522	0.001134	0.001134	0.000684	0.000926	0.000522	0.000521	0.001133	0.001133	0.000683	0.000924	0.000521
0.000416	0.000234	0.000234	0.000509	0.000509	0.000306	0.000415	0.000234	0.000233	0.000508	0.000508	0.000306	0.000414	0.000233	0.000233	0.000508	0.000508	0.000305	0.000414	0.000233
0.000633	0.000356	0.000355	0.000776	0.000776	0.000466	0.000632	0.000355	0.000355	0.000774	0.000774	0.000465	0.000631	0.000355	0.000354	0.000773	0.000773	0.000465	0.00063	0.000354
0.000551	0.000309	0.000309	0.000675	0.000675	0.000405	0.00055	0.000309	0.000309	0.000674	0.000674	0.000405	0.000549	0.000308	0.000308	0.000673	0.000673	0.000404	0.000548	0.000308
0.000474	0.000261	0.000261	0.000588	0.000588	0.000342	0.000473	0.000261	0.00026	0.000587	0.000587	0.000342	0.000472	0.00026	0.00026	0.000586	0.000586	0.000341	0.000472	0.00026
0.000627	0.000345	0.000345	0.000779	0.000779	0.000453	0.000626	0.000345	0.000345	0.000777	0.000777	0.000452	0.000625	0.000344	0.000344	0.000776	0.000776	0.000451	0.000624	0.000344
0.000566	0.000312	0.000312	0.000703	0.000703	0.000409	0.000565	0.000311	0.000311	0.000702	0.000702	0.000408	0.000565	0.000311	0.000311	0.000701	0.000701	0.000408	0.000564	0.00031
0.000153	8.43E-05	8.42E-05	0.00019	0.00019	0.000111	0.000153	8.42E-05	8.41E-05	0.00019	0.00019	0.00011	0.000153	8.41E-05	8.4E-05	0.00019	0.00019	0.00011	0.000152	8.39E-05
3.06E-05	1.69E-05	1.68E-05	3.81E-05	3.81E-05	2.21E-05	3.06E-05	1.68E-05	1.68E-05	3.8E-05	3.8E-05	2.21E-05	3.06E-05	1.68E-05	1.68E-05	3.8E-05	3.8E-05	2.21E-05	3.05E-05	1.68E-05

2027						2028						2029						20	
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON
0.006043	No Reduct	No Reduct	0.009322	0.009322	0.004706	0.006034	No Reduct	No Reduct	0.009308	0.009308	0.004713	0.006043	No Reduct	No Reduct	0.009323	0.009323	0.004706	0.006034	No Reduct
0.030169	No Reduct	No Reduct	0.046754	0.046754	0.0234	0.030199	No Reduct	No Reduct	0.046801	0.046801	0.023395	0.030192	No Reduct	No Reduct	0.04679	0.04679	0.023403	0.030203	No Reduct
0.021907	No Reduct	No Reduct	0.034049	0.034049	0.016912	0.021913	No Reduct	No Reduct	0.034058	0.034058	0.016916	0.021919	No Reduct	No Reduct	0.034067	0.034067	0.016906	0.021905	No Reduct
0.004278	No Reduct	No Reduct	0.006662	0.006662	0.003288	0.004272	No Reduct	No Reduct	0.006652	0.006652	0.003283	0.004265	No Reduct	No Reduct	0.006643	0.006643	0.003293	0.004278	No Reduct
0.007199	No Reduct	No Reduct	0.01124	0.01124	0.005514	0.007189	No Reduct	No Reduct	0.011223	0.011223	0.005521	0.007197	No Reduct	No Reduct	0.011237	0.011237	0.005527	0.007206	No Reduct

30						2031						2032						2033		
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	
0.005236	0.009532	0.009532	0.007198	0.008328	0.005242	0.005228	0.009518	0.009518	0.007231	0.008366	0.005266	0.005252	0.009561	0.009561	0.007222	0.008355	0.005259	0.005245	0.00955	
0.025941	0.047929	0.047929	0.035863	0.041758	0.026016	0.025951	0.047947	0.047947	0.035833	0.041722	0.025994	0.025929	0.047906	0.047906	0.035789	0.041671	0.025962	0.025897	0.047847	
0.018697	0.034861	0.034861	0.025903	0.030281	0.018747	0.018702	0.03487	0.03487	0.02591	0.030289	0.018752	0.018706	0.034879	0.034879	0.025923	0.030304	0.018761	0.018716	0.034896	
0.003636	0.006822	0.006822	0.005037	0.005904	0.003639	0.003631	0.006812	0.006812	0.005052	0.005922	0.00365	0.003642	0.006833	0.006833	0.005046	0.005914	0.003646	0.003637	0.006824	
0.006092	0.01152	0.01152	0.008454	0.009945	0.006097	0.006083	0.011503	0.011503	0.008442	0.00993	0.006088	0.006074	0.011486	0.011486	0.008454	0.009944	0.006097	0.006083	0.011503	
0.000844	0.001831	0.001831	0.001106	0.001496	0.000844	0.000843	0.001828	0.001828	0.001104	0.001493	0.000843	0.000842	0.001826	0.001826	0.001103	0.001492	0.000842	0.000841	0.001824	
0.00052	0.001131	0.001131	0.000682	0.000923	0.00052	0.000519	0.001129	0.001129	0.000681	0.000922	0.000519	0.000519	0.001128	0.001128	0.00068	0.00092	0.000519	0.000518	0.001126	
0.000233	0.000507	0.000507	0.000305	0.000413	0.000232	0.000232	0.000506	0.000506	0.000304	0.000413	0.000232	0.000232	0.000505	0.000505	0.000316	0.000429	0.000241	0.000241	0.000525	
0.000354	0.000772	0.000772	0.000464	0.000629	0.000354	0.000353	0.000771	0.000771	0.000463	0.000628	0.000353	0.000353	0.00077	0.00077	0.000463	0.000628	0.000353	0.000352	0.000769	
0.000308	0.000672	0.000672	0.000403	0.000548	0.000308	0.000307	0.000671	0.000671	0.000403	0.000547	0.000307	0.000307	0.00067	0.00067	0.000402	0.000546	0.000307	0.000306	0.00067	
0.00026	0.000585	0.000585	0.000352	0.000486	0.000268	0.000268	0.000603	0.000603	0.000351	0.000485	0.000267	0.000267	0.000602	0.000602	0.000351	0.000485	0.000267	0.000267	0.000602	
0.000344	0.000775	0.000775	0.000451	0.000623	0.000343	0.000343	0.000774	0.000774	0.00045	0.000622	0.000343	0.000343	0.000773	0.000773	0.000461	0.000637	0.000351	0.00035	0.000791	
0.00031	0.0007	0.0007	0.000407	0.000563	0.00031	0.00031	0.000699	0.000699	0.000406	0.000562	0.00031	0.000309	0.000698	0.000698	0.000406	0.000561	0.000309	0.000309	0.000697	
8.39E-05	0.000189	0.000189	0.00011	0.000152	8.38E-05	8.37E-05	0.000189	0.000189	0.00011	0.000152	8.37E-05	8.36E-05	0.000189	0.000189	0.00011	0.000152	8.36E-05	8.35E-05	0.000189	
1.68E-05	3.79E-05	3.79E-05	2.2E-05	3.05E-05	1.68E-05	1.67E-05	3.78E-05	3.78E-05	2.2E-05	3.04E-05	1.67E-05	1.67E-05	3.78E-05	3.78E-05	2.2E-05	3.04E-05	1.67E-05	1.67E-05	3.77E-05	

30						2031						2032						2033		
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	
No Reduct	0.009309	0.009309	0.004699	0.006026	No Reduct	No Reduct	0.009295	0.009295	0.004721	0.006053	No Reduct	No Reduct	0.009338	0.009338	0.004715	0.006046	No Reduct	No Reduct	0.009326	
No Reduct	0.046808	0.046808	0.023412	0.030215	No Reduct	No Reduct	0.046826	0.046826	0.023392	0.030189	No Reduct	No Reduct	0.046786	0.046786	0.023364	0.030152	No Reduct	No Reduct	0.046728	
No Reduct	0.034046	0.034046	0.01691	0.021911	No Reduct	No Reduct	0.034055	0.034055	0.016914	0.021916	No Reduct	No Reduct	0.034063	0.034063	0.016923	0.021927	No Reduct	No Reduct	0.03408	
No Reduct	0.006663	0.006663	0.003288	0.004272	No Reduct	No Reduct	0.006653	0.006653	0.003298	0.004285	No Reduct	No Reduct	0.006673	0.006673	0.003294	0.00428	No Reduct	No Reduct	0.006665	
No Reduct	0.011251	0.011251	0.005519	0.007196	No Reduct	No Reduct	0.011234	0.011234	0.005511	0.007185	No Reduct	No Reduct	0.011218	0.011218	0.005519	0.007195	No Reduct	No Reduct	0.011234	

2034						2035					
PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
0.00955	0.007233	0.008368	0.005267	0.005253	0.009564	0.009564	0.007223	0.008356	0.00526	0.005246	0.00955	0.00955
0.047847	0.035802	0.041687	0.025972	0.025907	0.047865	0.047865	0.035816	0.041703	0.025982	0.025917	0.047883	0.047883
0.034896	0.025929	0.030312	0.018766	0.01872	0.034905	0.034905	0.025936	0.030319	0.01877	0.018725	0.034914	0.034914
0.006824	0.005038	0.005906	0.003641	0.003632	0.006814	0.006814	0.005031	0.005897	0.003635	0.003627	0.006804	0.006804
0.011503	0.008442	0.00993	0.006088	0.006074	0.011486	0.011486	0.008452	0.009942	0.006095	0.006081	0.0115	0.0115
0.001824	0.001101	0.001489	0.00084	0.000839	0.001821	0.001821	0.001099	0.001487	0.000839	0.000838	0.001818	0.001818
0.001126	0.000679	0.000919	0.000518	0.000517	0.001125	0.001125	0.000678	0.000918	0.000517	0.000516	0.001123	0.001123
0.000525	0.000316	0.000428	0.000241	0.000241	0.000524	0.000524	0.000315	0.000427	0.00024	0.00024	0.000523	0.000523
0.000769	0.000462	0.000627	0.000352	0.000352	0.000768	0.000768	0.000461	0.000626	0.000352	0.000351	0.000767	0.000767
0.00067	0.000402	0.000545	0.000306	0.000306	0.000669	0.000669	0.000401	0.000545	0.000306	0.000305	0.000668	0.000668
0.000602	0.00035	0.000484	0.000267	0.000266	0.000601	0.000601	0.00035	0.000483	0.000266	0.000266	0.0006	0.0006
0.000791	0.00046	0.000636	0.00035	0.00035	0.00079	0.00079	0.000459	0.000635	0.00035	0.000349	0.000788	0.000788
0.000697	0.000405	0.000561	0.000309	0.000308	0.000696	0.000696	0.000405	0.00056	0.000308	0.000308	0.000695	0.000695
0.000189	0.00011	0.000152	8.35E-05	8.34E-05	0.000188	0.000188	0.000109	0.000151	8.33E-05	8.33E-05	0.000188	0.000188
3.77E-05	2.19E-05	3.03E-05	1.67E-05	1.67E-05	3.77E-05	3.77E-05	2.19E-05	3.03E-05	1.67E-05	1.67E-05	3.76E-05	3.76E-05

2034						2035					
PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
0.009326	0.004722	0.006055	No Reduct	No Reduct	0.009341	0.009341	0.004715	0.006046	No Reduct	No Reduct	0.009327	0.009327
0.046728	0.023372	0.030163	No Reduct	No Reduct	0.046746	0.046746	0.023381	0.030175	No Reduct	No Reduct	0.046764	0.046764
0.03408	0.016927	0.021933	No Reduct	No Reduct	0.034089	0.034089	0.016931	0.021938	No Reduct	No Reduct	0.034097	0.034097
0.006665	0.003289	0.004273	No Reduct	No Reduct	0.006655	0.006655	0.003284	0.004267	No Reduct	No Reduct	0.006645	0.006645
0.011234	0.005511	0.007185	No Reduct	No Reduct	0.011218	0.011218	0.005518	0.007194	No Reduct	No Reduct	0.011231	0.011231

6000	0.000655	0.000982	No Reduct	No Reduct	0.001621	0.001621	0.000723	0.001083	No Reduct	No Reduct	0.001788	0.001788	0.000722	0.001082	No Reduct	No Reduct	0.001786	0.001786	0.000721
7000	0.000418	0.000628	No Reduct	No Reduct	0.001037	0.001037	0.000447	0.000671	No Reduct	No Reduct	0.001109	0.001109	0.000447	0.000671	No Reduct	No Reduct	0.001108	0.001108	0.000446
8000	0.000219	0.000329	No Reduct	No Reduct	0.000544	0.000544	0.000204	0.000306	No Reduct	No Reduct	0.000506	0.000506	0.000204	0.000306	No Reduct	No Reduct	0.000505	0.000505	0.000203
9000	0.000315	0.000473	No Reduct	No Reduct	0.000783	0.000783	0.000302	0.000454	No Reduct	No Reduct	0.000751	0.000751	0.000302	0.000453	No Reduct	No Reduct	0.00075	0.00075	0.000301
10000	0.000201	0.000302	No Reduct	No Reduct	0.000499	0.000499	0.00027	0.000406	No Reduct	No Reduct	0.000671	0.000671	0.000269	0.000405	No Reduct	No Reduct	0.000671	0.000671	0.000269
11000	0.000215	0.000329	No Reduct	No Reduct	0.000551	0.000551	0.000228	0.000349	No Reduct	No Reduct	0.000584	0.000584	0.000227	0.000348	No Reduct	No Reduct	0.000584	0.000584	0.000227
12000	0.000232	0.000356	No Reduct	No Reduct	0.000596	0.000596	0.000301	0.000462	No Reduct	No Reduct	0.000774	0.000774	0.000301	0.000461	No Reduct	No Reduct	0.000773	0.000773	0.000301
13000	0.000172	0.000264	No Reduct	No Reduct	0.000442	0.000442	0.000265	0.000406	No Reduct	No Reduct	0.00068	0.00068	0.000264	0.000405	No Reduct	No Reduct	0.000679	0.000679	0.000264
14000	5.16E-05	7.91E-05	No Reduct	No Reduct	0.000133	0.000133	7.35E-05	0.000113	No Reduct	No Reduct	0.000189	0.000189	7.35E-05	0.000113	No Reduct	No Reduct	0.000189	0.000189	7.34E-05
15000	8.6E-06	1.32E-05	No Reduct	No Reduct	2.21E-05	2.21E-05	1.47E-05	2.26E-05	No Reduct	No Reduct	3.78E-05	3.78E-05	1.47E-05	2.25E-05	No Reduct	No Reduct	3.78E-05	3.78E-05	1.47E-05

Final % Reduction GivenTier 4f

	2012						2015						2016					
	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
1000	0.007642	0.006666	No Reduct	No Reduct	0.010283	0.010283	0.006922	0.006038	No Reduct	No Reduct	0.009314	0.009314	0.006915	0.006031	No Reduct	No Reduct	0.009304	0.009304	0.006905
2000	0.036048	0.031644	No Reduct	No Reduct	0.049041	0.049041	0.034341	0.030146	No Reduct	No Reduct	0.046719	0.046719	0.03435	0.030154	No Reduct	No Reduct	0.046732	0.046732	0.034385
3000	0.023959	0.021117	No Reduct	No Reduct	0.032821	0.032821	0.024854	0.021906	No Reduct	No Reduct	0.034047	0.034047	0.024873	0.021922	No Reduct	No Reduct	0.034073	0.034073	0.024858
4000	0.004514	0.00399	No Reduct	No Reduct	0.006213	0.006213	0.004837	0.004275	No Reduct	No Reduct	0.006658	0.006658	0.004833	0.004271	No Reduct	No Reduct	0.006651	0.006651	0.004847
5000	0.007853	0.006964	No Reduct	No Reduct	0.010873	0.010873	0.008127	0.007207	No Reduct	No Reduct	0.011253	0.011253	0.008119	0.0072	No Reduct	No Reduct	0.011241	0.011241	0.008107
6000	0.000963	0.000982	No Reduct	No Reduct	0.001621	0.001621	0.001062	0.001083	No Reduct	No Reduct	0.001788	0.001788	0.001061	0.001082	No Reduct	No Reduct	0.001786	0.001786	0.00106
7000	0.000615	0.000628	No Reduct	No Reduct	0.001037	0.001037	0.000658	0.000671	No Reduct	No Reduct	0.001109	0.001109	0.000657	0.000671	No Reduct	No Reduct	0.001108	0.001108	0.000656
8000	0.000322	0.000329	No Reduct	No Reduct	0.000544	0.000544	0.000299	0.000306	No Reduct	No Reduct	0.000506	0.000506	0.000299	0.000306	No Reduct	No Reduct	0.000505	0.000505	0.000299
9000	0.000463	0.000473	No Reduct	No Reduct	0.000783	0.000783	0.000444	0.000454	No Reduct	No Reduct	0.000751	0.000751	0.000443	0.000453	No Reduct	No Reduct	0.00075	0.00075	0.000443
10000	0.000295	0.000302	No Reduct	No Reduct	0.000499	0.000499	0.000396	0.000406	No Reduct	No Reduct	0.000671	0.000671	0.000396	0.000405	No Reduct	No Reduct	0.000671	0.000671	0.000395
11000	0.000316	0.000329	No Reduct	No Reduct	0.000551	0.000551	0.000335	0.000349	No Reduct	No Reduct	0.000584	0.000584	0.000334	0.000348	No Reduct	No Reduct	0.000584	0.000584	0.000334
12000	0.000341	0.000356	No Reduct	No Reduct	0.000596	0.000596	0.000443	0.000462	No Reduct	No Reduct	0.000774	0.000774	0.000442	0.000461	No Reduct	No Reduct	0.000773	0.000773	0.000442
13000	0.000253	0.000264	No Reduct	No Reduct	0.000442	0.000442	0.000389	0.000406	No Reduct	No Reduct	0.00068	0.00068	0.000389	0.000405	No Reduct	No Reduct	0.000679	0.000679	0.000388
14000	7.59E-05	7.91E-05	No Reduct	No Reduct	0.000133	0.000133	0.000108	0.000113	No Reduct	No Reduct	0.000189	0.000189	0.000108	0.000113	No Reduct	No Reduct	0.000189	0.000189	0.000108
15000	1.26E-05	1.32E-05	No Reduct	No Reduct	2.21E-05	2.21E-05	2.16E-05	2.26E-05	No Reduct	No Reduct	3.78E-05	3.78E-05	2.16E-05	2.25E-05	No Reduct	No Reduct	3.78E-05	3.78E-05	2.16E-05

0.001081	No Reduct	No Reduct	0.001783	0.001783	0.00072	0.001079	No Reduct	No Reduct	0.001781	0.001781	0.000719	0.001077	No Reduct	No Reduct	0.001778	0.001778	0.000718	0.001076	No Reduct
0.00067	No Reduct	No Reduct	0.001106	0.001106	0.000446	0.000669	No Reduct	No Reduct	0.001104	0.001104	0.000445	0.000668	No Reduct	No Reduct	0.001103	0.001103	0.000444	0.000667	No Reduct
0.000305	No Reduct	No Reduct	0.000505	0.000505	0.000203	0.000305	No Reduct	No Reduct	0.000504	0.000504	0.000203	0.000304	No Reduct	No Reduct	0.000503	0.000503	0.000202	0.000304	No Reduct
0.000453	No Reduct	No Reduct	0.000749	0.000749	0.000301	0.000452	No Reduct	No Reduct	0.000748	0.000748	0.0003	0.000451	No Reduct	No Reduct	0.000746	0.000746	0.0003	0.000451	No Reduct
0.000405	No Reduct	No Reduct	0.00067	0.00067	0.000268	0.000404	No Reduct	No Reduct	0.000669	0.000669	0.000268	0.000403	No Reduct	No Reduct	0.000668	0.000668	0.000268	0.000403	No Reduct
0.000348	No Reduct	No Reduct	0.000583	0.000583	0.000227	0.000347	No Reduct	No Reduct	0.000582	0.000582	0.000226	0.000347	No Reduct	No Reduct	0.000581	0.000581	0.000226	0.000346	No Reduct
0.000461	No Reduct	No Reduct	0.000772	0.000772	0.0003	0.00046	No Reduct	No Reduct	0.000771	0.000771	0.0003	0.000459	No Reduct	No Reduct	0.00077	0.00077	0.000299	0.000459	No Reduct
0.000405	No Reduct	No Reduct	0.000678	0.000678	0.000264	0.000404	No Reduct	No Reduct	0.000677	0.000677	0.000263	0.000404	No Reduct	No Reduct	0.000676	0.000676	0.000263	0.000403	No Reduct
0.000112	No Reduct	No Reduct	0.000189	0.000189	7.33E-05	0.000112	No Reduct	No Reduct	0.000188	0.000188	7.31E-05	0.000112	No Reduct	No Reduct	0.000188	0.000188	7.3E-05	0.000112	No Reduct
2.25E-05	No Reduct	No Reduct	3.77E-05	3.77E-05	1.47E-05	2.25E-05	No Reduct	No Reduct	3.77E-05	3.77E-05	1.46E-05	2.24E-05	No Reduct	No Reduct	3.76E-05	3.76E-05	1.46E-05	2.24E-05	No Reduct

2017						2018						2019						20
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON
0.006022	No Reduct	No Reduct	0.00929	0.00929	0.006937	0.006051	No Reduct	No Reduct	0.009334	0.009334	0.006927	0.006041	No Reduct	No Reduct	0.00932	0.00932	0.006937	0.006051	No Reduct
0.030185	No Reduct	No Reduct	0.046779	0.046779	0.034355	0.030159	No Reduct	No Reduct	0.046738	0.046738	0.03439	0.030189	No Reduct	No Reduct	0.046786	0.046786	0.034382	0.030182	No Reduct
0.021909	No Reduct	No Reduct	0.034051	0.034051	0.024864	0.021914	No Reduct	No Reduct	0.03406	0.03406	0.024849	0.021901	No Reduct	No Reduct	0.034039	0.034039	0.024855	0.021906	No Reduct
0.004284	No Reduct	No Reduct	0.006672	0.006671	0.00484	0.004278	No Reduct	No Reduct	0.006661	0.006661	0.004833	0.004271	No Reduct	No Reduct	0.006651	0.006651	0.004848	0.004284	No Reduct
0.007189	No Reduct	No Reduct	0.011224	0.011224	0.008117	0.007198	No Reduct	No Reduct	0.011238	0.011238	0.008127	0.007207	No Reduct	No Reduct	0.011252	0.011252	0.008114	0.007196	No Reduct
0.001081	No Reduct	No Reduct	0.001783	0.001783	0.001058	0.001079	No Reduct	No Reduct	0.001781	0.001781	0.001056	0.001077	No Reduct	No Reduct	0.001778	0.001778	0.001055	0.001076	No Reduct
0.00067	No Reduct	No Reduct	0.001106	0.001106	0.000655	0.000669	No Reduct	No Reduct	0.001104	0.001104	0.000654	0.000668	No Reduct	No Reduct	0.001103	0.001103	0.000653	0.000667	No Reduct
0.000305	No Reduct	No Reduct	0.000505	0.000505	0.000298	0.000305	No Reduct	No Reduct	0.000504	0.000504	0.000298	0.000304	No Reduct	No Reduct	0.000503	0.000503	0.000297	0.000304	No Reduct
0.000453	No Reduct	No Reduct	0.000749	0.000749	0.000442	0.000452	No Reduct	No Reduct	0.000748	0.000748	0.000441	0.000451	No Reduct	No Reduct	0.000746	0.000746	0.000441	0.000451	No Reduct
0.000405	No Reduct	No Reduct	0.00067	0.00067	0.000395	0.000404	No Reduct	No Reduct	0.000669	0.000669	0.000394	0.000403	No Reduct	No Reduct	0.000668	0.000668	0.000394	0.000403	No Reduct
0.000348	No Reduct	No Reduct	0.000583	0.000583	0.000333	0.000347	No Reduct	No Reduct	0.000582	0.000582	0.000333	0.000347	No Reduct	No Reduct	0.000581	0.000581	0.000332	0.000346	No Reduct
0.000461	No Reduct	No Reduct	0.000772	0.000772	0.000441	0.00046	No Reduct	No Reduct	0.000771	0.000771	0.00044	0.000459	No Reduct	No Reduct	0.00077	0.00077	0.00044	0.000459	No Reduct
0.000405	No Reduct	No Reduct	0.000678	0.000678	0.000388	0.000404	No Reduct	No Reduct	0.000677	0.000677	0.000387	0.000404	No Reduct	No Reduct	0.000676	0.000676	0.000386	0.000403	No Reduct
0.000112	No Reduct	No Reduct	0.000189	0.000189	0.000108	0.000112	No Reduct	No Reduct	0.000188	0.000188	0.000108	0.000112	No Reduct	No Reduct	0.000188	0.000188	0.000107	0.000112	No Reduct
2.25E-05	No Reduct	No Reduct	3.77E-05	3.77E-05	2.15E-05	2.25E-05	No Reduct	No Reduct	3.77E-05	3.77E-05	2.15E-05	2.24E-05	No Reduct	No Reduct	3.76E-05	3.76E-05	2.15E-05	2.24E-05	No Reduct

No Reduct	0.001775	0.001775	0.000716	0.001074	No Reduct	No Reduct	0.001773	0.001773	0.000715	0.001073	No Reduct	No Reduct	0.00177	0.00177	0.000714	0.001071	No Reduct	No Reduct	0.001767
No Reduct	0.001101	0.001101	0.000444	0.000666	No Reduct	No Reduct	0.001099	0.001099	0.000443	0.000665	No Reduct	No Reduct	0.001098	0.001098	0.000442	0.000664	No Reduct	No Reduct	0.001096
No Reduct	0.000502	0.000502	0.000202	0.000303	No Reduct	No Reduct	0.000502	0.000502	0.000202	0.000303	No Reduct	No Reduct	0.000501	0.000501	0.000201	0.000303	No Reduct	No Reduct	0.0005
No Reduct	0.000745	0.000745	0.000299	0.00045	No Reduct	No Reduct	0.000744	0.000744	0.000299	0.000449	No Reduct	No Reduct	0.000743	0.000743	0.000298	0.000449	No Reduct	No Reduct	0.000742
No Reduct	0.000667	0.000667	0.000267	0.000402	No Reduct	No Reduct	0.000666	0.000666	0.000267	0.000402	No Reduct	No Reduct	0.000665	0.000665	0.000266	0.000401	No Reduct	No Reduct	0.000664
No Reduct	0.00058	0.00058	0.000226	0.000346	No Reduct	No Reduct	0.000579	0.000579	0.000225	0.000345	No Reduct	No Reduct	0.000578	0.000578	0.000225	0.000345	No Reduct	No Reduct	0.000578
No Reduct	0.000768	0.000768	0.000299	0.000458	No Reduct	No Reduct	0.000767	0.000767	0.000298	0.000457	No Reduct	No Reduct	0.000766	0.000766	0.000298	0.000456	No Reduct	No Reduct	0.000765
No Reduct	0.000675	0.000675	0.000262	0.000402	No Reduct	No Reduct	0.000674	0.000674	0.000262	0.000402	No Reduct	No Reduct	0.000673	0.000673	0.000262	0.000401	No Reduct	No Reduct	0.000672
No Reduct	0.000188	0.000188	7.29E-05	0.000112	No Reduct	No Reduct	0.000187	0.000187	7.28E-05	0.000112	No Reduct	No Reduct	0.000187	0.000187	7.27E-05	0.000111	No Reduct	No Reduct	0.000187
No Reduct	3.76E-05	3.76E-05	1.46E-05	2.24E-05	No Reduct	No Reduct	3.75E-05	3.75E-05	1.46E-05	2.23E-05	No Reduct	No Reduct	3.75E-05	3.75E-05	1.45E-05	2.23E-05	No Reduct	No Reduct	3.74E-05

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2021						2022						2023							
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON
No Reduct	0.009334	0.009334	0.006927	0.006042	No Reduct	No Reduct	0.00932	0.00932	0.006917	0.006033	No Reduct	No Reduct	0.009306	0.009306	0.006927	0.006042	No Reduct	No Reduct	0.009321
No Reduct	0.046775	0.046775	0.034373	0.030175	No Reduct	No Reduct	0.046763	0.046763	0.03443	0.030224	No Reduct	No Reduct	0.04684	0.04684	0.034443	0.030236	No Reduct	No Reduct	0.046858
No Reduct	0.034048	0.034048	0.024883	0.021931	No Reduct	No Reduct	0.034086	0.034086	0.024868	0.021918	No Reduct	No Reduct	0.034065	0.034065	0.024852	0.021904	No Reduct	No Reduct	0.034044
No Reduct	0.006672	0.006672	0.00484	0.004278	No Reduct	No Reduct	0.006662	0.006662	0.004833	0.004271	No Reduct	No Reduct	0.006652	0.006652	0.004848	0.004284	No Reduct	No Reduct	0.006672
No Reduct	0.011235	0.011235	0.008125	0.007205	No Reduct	No Reduct	0.011249	0.011249	0.008112	0.007194	No Reduct	No Reduct	0.011232	0.011232	0.0081	0.007184	No Reduct	No Reduct	0.011215
No Reduct	0.001775	0.001775	0.001053	0.001074	No Reduct	No Reduct	0.001773	0.001773	0.001052	0.001073	No Reduct	No Reduct	0.00177	0.00177	0.00105	0.001071	No Reduct	No Reduct	0.001767
No Reduct	0.001101	0.001101	0.000652	0.000666	No Reduct	No Reduct	0.001099	0.001099	0.000651	0.000665	No Reduct	No Reduct	0.001098	0.001098	0.00065	0.000664	No Reduct	No Reduct	0.001096
No Reduct	0.000502	0.000502	0.000297	0.000303	No Reduct	No Reduct	0.000502	0.000502	0.000296	0.000303	No Reduct	No Reduct	0.000501	0.000501	0.000296	0.000303	No Reduct	No Reduct	0.0005
No Reduct	0.000745	0.000745	0.00044	0.00045	No Reduct	No Reduct	0.000744	0.000744	0.000439	0.000449	No Reduct	No Reduct	0.000743	0.000743	0.000439	0.000449	No Reduct	No Reduct	0.000742
No Reduct	0.000667	0.000667	0.000393	0.000402	No Reduct	No Reduct	0.000666	0.000666	0.000392	0.000402	No Reduct	No Reduct	0.000665	0.000665	0.000392	0.000401	No Reduct	No Reduct	0.000664
No Reduct	0.00058	0.00058	0.000332	0.000346	No Reduct	No Reduct	0.000579	0.000579	0.000331	0.000345	No Reduct	No Reduct	0.000578	0.000578	0.000331	0.000345	No Reduct	No Reduct	0.000578
No Reduct	0.000768	0.000768	0.000439	0.000458	No Reduct	No Reduct	0.000767	0.000767	0.000439	0.000457	No Reduct	No Reduct	0.000766	0.000766	0.000438	0.000456	No Reduct	No Reduct	0.000765
No Reduct	0.000675	0.000675	0.000386	0.000402	No Reduct	No Reduct	0.000674	0.000674	0.000385	0.000402	No Reduct	No Reduct	0.000673	0.000673	0.000385	0.000401	No Reduct	No Reduct	0.000672
No Reduct	0.000188	0.000188	0.000107	0.000112	No Reduct	No Reduct	0.000187	0.000187	0.000107	0.000112	No Reduct	No Reduct	0.000187	0.000187	0.000107	0.000111	No Reduct	No Reduct	0.000187
No Reduct	3.76E-05	3.76E-05	2.14E-05	2.24E-05	No Reduct	No Reduct	3.75E-05	3.75E-05	2.14E-05	2.23E-05	No Reduct	No Reduct	3.75E-05	3.75E-05	2.14E-05	2.23E-05	No Reduct	No Reduct	3.74E-05

0.001767	0.000729	0.001093	No Reduct	No Reduct	0.001804	0.001804	0.000728	0.001092	No Reduct	No Reduct	0.001802	0.001802	0.000727	0.00109	No Reduct	No Reduct	0.001799	0.001799	0.000726
0.001096	0.000442	0.000663	No Reduct	No Reduct	0.001095	0.001095	0.000449	0.000674	No Reduct	No Reduct	0.001113	0.001113	0.000448	0.000673	No Reduct	No Reduct	0.001111	0.001111	0.000448
0.0005	0.000201	0.000302	No Reduct	No Reduct	0.000499	0.000499	0.000201	0.000302	No Reduct	No Reduct	0.000499	0.000499	0.0002	0.000301	No Reduct	No Reduct	0.000498	0.000498	0.0002
0.000742	0.000298	0.000448	No Reduct	No Reduct	0.000741	0.000741	0.000297	0.000447	No Reduct	No Reduct	0.00074	0.00074	0.000297	0.000447	No Reduct	No Reduct	0.000739	0.000739	0.000305
0.000664	0.000266	0.0004	No Reduct	No Reduct	0.000663	0.000663	0.000266	0.0004	No Reduct	No Reduct	0.000662	0.000662	0.000265	0.000399	No Reduct	No Reduct	0.000661	0.000661	0.000265
0.000578	0.000225	0.000344	No Reduct	No Reduct	0.000577	0.000577	0.000224	0.000344	No Reduct	No Reduct	0.000576	0.000576	0.000224	0.000343	No Reduct	No Reduct	0.000575	0.000575	0.000224
0.000765	0.000297	0.000456	No Reduct	No Reduct	0.000764	0.000764	0.000297	0.000455	No Reduct	No Reduct	0.000763	0.000763	0.000297	0.000454	No Reduct	No Reduct	0.000762	0.000762	0.000296
0.000672	0.000261	0.0004	No Reduct	No Reduct	0.000671	0.000671	0.000261	0.0004	No Reduct	No Reduct	0.00067	0.00067	0.000268	0.00041	No Reduct	No Reduct	0.000688	0.000688	0.000267
0.000187	7.26E-05	0.000111	No Reduct	No Reduct	0.000187	0.000187	7.25E-05	0.000111	No Reduct	No Reduct	0.000186	0.000186	7.24E-05	0.000111	No Reduct	No Reduct	0.000186	0.000186	7.23E-05
3.74E-05	1.45E-05	2.23E-05	No Reduct	No Reduct	3.74E-05	3.74E-05	1.45E-05	2.22E-05	No Reduct	No Reduct	3.73E-05	3.73E-05	1.45E-05	2.22E-05	No Reduct	No Reduct	3.72E-05	3.72E-05	1.45E-05

2024						2025						2026						
PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
0.009321	0.006917	0.006033	No Reduct	No Reduct	0.009307	0.009307	0.006928	0.006043	No Reduct	No Reduct	0.009322	0.009322	0.006918	0.006034	No Reduct	No Reduct	0.009308	0.009308	0.006928
0.046858	0.034413	0.030209	No Reduct	No Reduct	0.046817	0.046817	0.034405	0.030202	No Reduct	No Reduct	0.046806	0.046806	0.034396	0.030195	No Reduct	No Reduct	0.046795	0.046795	0.034367
0.034044	0.024837	0.021891	No Reduct	No Reduct	0.034023	0.034023	0.024843	0.021896	No Reduct	No Reduct	0.034032	0.034032	0.02485	0.021902	No Reduct	No Reduct	0.034041	0.034041	0.024856
0.006672	0.004841	0.004278	No Reduct	No Reduct	0.006662	0.006662	0.004833	0.004272	No Reduct	No Reduct	0.006652	0.006652	0.004848	0.004284	No Reduct	No Reduct	0.006672	0.006672	0.004841
0.011215	0.008132	0.007212	No Reduct	No Reduct	0.01126	0.01126	0.00812	0.007201	No Reduct	No Reduct	0.011243	0.011243	0.008108	0.007191	No Reduct	No Reduct	0.011226	0.011226	0.008118
0.001767	0.001072	0.001093	No Reduct	No Reduct	0.001804	0.001804	0.001071	0.001092	No Reduct	No Reduct	0.001802	0.001802	0.001069	0.00109	No Reduct	No Reduct	0.001799	0.001799	0.001067
0.001096	0.000649	0.000663	No Reduct	No Reduct	0.001095	0.001095	0.00066	0.000674	No Reduct	No Reduct	0.001113	0.001113	0.000659	0.000673	No Reduct	No Reduct	0.001111	0.001111	0.000658
0.0005	0.000296	0.000302	No Reduct	No Reduct	0.000499	0.000499	0.000295	0.000302	No Reduct	No Reduct	0.000499	0.000499	0.000295	0.000301	No Reduct	No Reduct	0.000498	0.000498	0.000294
0.000742	0.000438	0.000448	No Reduct	No Reduct	0.000741	0.000741	0.000437	0.000447	No Reduct	No Reduct	0.00074	0.00074	0.000437	0.000447	No Reduct	No Reduct	0.000739	0.000739	0.000448
0.000664	0.000391	0.0004	No Reduct	No Reduct	0.000663	0.000663	0.000391	0.0004	No Reduct	No Reduct	0.000662	0.000662	0.00039	0.000399	No Reduct	No Reduct	0.000661	0.000661	0.000389
0.000578	0.00033	0.000344	No Reduct	No Reduct	0.000577	0.000577	0.00033	0.000344	No Reduct	No Reduct	0.000576	0.000576	0.000329	0.000343	No Reduct	No Reduct	0.000575	0.000575	0.000329
0.000765	0.000437	0.000456	No Reduct	No Reduct	0.000764	0.000764	0.000437	0.000455	No Reduct	No Reduct	0.000763	0.000763	0.000436	0.000454	No Reduct	No Reduct	0.000762	0.000762	0.000435
0.000672	0.000384	0.0004	No Reduct	No Reduct	0.000671	0.000671	0.000383	0.0004	No Reduct	No Reduct	0.00067	0.00067	0.000394	0.00041	No Reduct	No Reduct	0.000688	0.000688	0.000393
0.000187	0.000107	0.000111	No Reduct	No Reduct	0.000187	0.000187	0.000107	0.000111	No Reduct	No Reduct	0.000186	0.000186	0.000106	0.000111	No Reduct	No Reduct	0.000186	0.000186	0.000106
3.74E-05	2.14E-05	2.23E-05	No Reduct	No Reduct	3.74E-05	3.74E-05	2.13E-05	2.22E-05	No Reduct	No Reduct	3.73E-05	3.73E-05	2.13E-05	2.22E-05	No Reduct	No Reduct	3.72E-05	3.72E-05	2.13E-05

0.001089	No Reduct	No Reduct	0.001796	0.001796	0.000725	0.001087	No Reduct	No Reduct	0.001794	0.001794	0.000724	0.001085	No Reduct	No Reduct	0.001791	0.001791	0.000723	0.001084	No Reduct
0.000672	No Reduct	No Reduct	0.001109	0.001109	0.000447	0.000671	No Reduct	No Reduct	0.001108	0.001108	0.000446	0.00067	No Reduct	No Reduct	0.001106	0.001106	0.000446	0.000669	No Reduct
0.000301	No Reduct	No Reduct	0.000497	0.000497	0.0002	0.0003	No Reduct	No Reduct	0.000496	0.000496	0.0002	0.0003	No Reduct	No Reduct	0.000496	0.000496	0.000199	0.000299	No Reduct
0.000458	No Reduct	No Reduct	0.000757	0.000757	0.000304	0.000457	No Reduct	No Reduct	0.000756	0.000756	0.000304	0.000457	No Reduct	No Reduct	0.000755	0.000755	0.000303	0.000456	No Reduct
0.000399	No Reduct	No Reduct	0.00066	0.00066	0.000264	0.000398	No Reduct	No Reduct	0.000659	0.000659	0.000264	0.000397	No Reduct	No Reduct	0.000658	0.000658	0.000264	0.000397	No Reduct
0.000343	No Reduct	No Reduct	0.000574	0.000574	0.000223	0.000342	No Reduct	No Reduct	0.000573	0.000573	0.000223	0.000342	No Reduct	No Reduct	0.000572	0.000572	0.000223	0.000341	No Reduct
0.000454	No Reduct	No Reduct	0.00076	0.00076	0.000296	0.000453	No Reduct	No Reduct	0.000759	0.000759	0.000295	0.000452	No Reduct	No Reduct	0.000758	0.000758	0.000295	0.000452	No Reduct
0.00041	No Reduct	No Reduct	0.000687	0.000687	0.000267	0.000409	No Reduct	No Reduct	0.000686	0.000686	0.000267	0.000409	No Reduct	No Reduct	0.000685	0.000685	0.000266	0.000408	No Reduct
0.000111	No Reduct	No Reduct	0.000186	0.000186	7.22E-05	0.000111	No Reduct	No Reduct	0.000186	0.000186	7.21E-05	0.00011	No Reduct	No Reduct	0.000185	0.000185	7.2E-05	0.00011	No Reduct
2.22E-05	No Reduct	No Reduct	3.72E-05	3.72E-05	1.44E-05	2.21E-05	No Reduct	No Reduct	3.71E-05	3.71E-05	1.44E-05	2.21E-05	No Reduct	No Reduct	3.71E-05	3.71E-05	1.44E-05	2.21E-05	No Reduct

2027						2028						2029						20
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON
0.006043	No Reduct	No Reduct	0.009322	0.009322	0.006918	0.006034	No Reduct	No Reduct	0.009308	0.009308	0.006929	0.006043	No Reduct	No Reduct	0.009323	0.009323	0.006919	0.006034	No Reduct
0.030169	No Reduct	No Reduct	0.046754	0.046754	0.034401	0.030199	No Reduct	No Reduct	0.046801	0.046801	0.034393	0.030192	No Reduct	No Reduct	0.04679	0.04679	0.034406	0.030203	No Reduct
0.021907	No Reduct	No Reduct	0.034049	0.034049	0.024863	0.021913	No Reduct	No Reduct	0.034058	0.034058	0.024869	0.021919	No Reduct	No Reduct	0.034067	0.034067	0.024854	0.021905	No Reduct
0.004278	No Reduct	No Reduct	0.006662	0.006662	0.004834	0.004272	No Reduct	No Reduct	0.006652	0.006652	0.004826	0.004265	No Reduct	No Reduct	0.006643	0.006643	0.004841	0.004278	No Reduct
0.007199	No Reduct	No Reduct	0.01124	0.01124	0.008106	0.007189	No Reduct	No Reduct	0.011223	0.011223	0.008116	0.007197	No Reduct	No Reduct	0.011237	0.011237	0.008126	0.007206	No Reduct
0.001089	No Reduct	No Reduct	0.001796	0.001796	0.001066	0.001087	No Reduct	No Reduct	0.001794	0.001794	0.001064	0.001085	No Reduct	No Reduct	0.001791	0.001791	0.001063	0.001084	No Reduct
0.000672	No Reduct	No Reduct	0.001109	0.001109	0.000657	0.000671	No Reduct	No Reduct	0.001108	0.001108	0.000656	0.00067	No Reduct	No Reduct	0.001106	0.001106	0.000655	0.000669	No Reduct
0.000301	No Reduct	No Reduct	0.000497	0.000497	0.000294	0.0003	No Reduct	No Reduct	0.000496	0.000496	0.000293	0.0003	No Reduct	No Reduct	0.000496	0.000496	0.000293	0.000299	No Reduct
0.000458	No Reduct	No Reduct	0.000757	0.000757	0.000447	0.000457	No Reduct	No Reduct	0.000756	0.000756	0.000447	0.000457	No Reduct	No Reduct	0.000755	0.000755	0.000446	0.000456	No Reduct
0.000399	No Reduct	No Reduct	0.00066	0.00066	0.000389	0.000398	No Reduct	No Reduct	0.000659	0.000659	0.000388	0.000397	No Reduct	No Reduct	0.000658	0.000658	0.000388	0.000397	No Reduct
0.000343	No Reduct	No Reduct	0.000574	0.000574	0.000328	0.000342	No Reduct	No Reduct	0.000573	0.000573	0.000328	0.000342	No Reduct	No Reduct	0.000572	0.000572	0.000327	0.000341	No Reduct
0.000454	No Reduct	No Reduct	0.00076	0.00076	0.000435	0.000453	No Reduct	No Reduct	0.000759	0.000759	0.000434	0.000452	No Reduct	No Reduct	0.000758	0.000758	0.000433	0.000452	No Reduct
0.00041	No Reduct	No Reduct	0.000687	0.000687	0.000392	0.000409	No Reduct	No Reduct	0.000686	0.000686	0.000392	0.000409	No Reduct	No Reduct	0.000685	0.000685	0.000391	0.000408	No Reduct
0.000111	No Reduct	No Reduct	0.000186	0.000186	0.000106	0.000111	No Reduct	No Reduct	0.000186	0.000186	0.000106	0.00011	No Reduct	No Reduct	0.000185	0.000185	0.000106	0.00011	No Reduct
2.22E-05	No Reduct	No Reduct	3.72E-05	3.72E-05	2.12E-05	2.21E-05	No Reduct	No Reduct	3.71E-05	3.71E-05	2.12E-05	2.21E-05	No Reduct	No Reduct	3.71E-05	3.71E-05	2.12E-05	2.21E-05	No Reduct

No Reduct	0.001788	0.001788	0.000722	0.001082	No Reduct	No Reduct	0.001786	0.001786	0.000721	0.001081	No Reduct	No Reduct	0.001783	0.001783	0.00072	0.001079	No Reduct	No Reduct	0.001781
No Reduct	0.001105	0.001105	0.000445	0.000668	No Reduct	No Reduct	0.001103	0.001103	0.000444	0.000667	No Reduct	No Reduct	0.001101	0.001101	0.000444	0.000666	No Reduct	No Reduct	0.0011
No Reduct	0.000495	0.000495	0.000199	0.000299	No Reduct	No Reduct	0.000494	0.000494	0.000199	0.000299	No Reduct	No Reduct	0.000493	0.000493	0.000206	0.00031	No Reduct	No Reduct	0.000513
No Reduct	0.000754	0.000754	0.000303	0.000455	No Reduct	No Reduct	0.000753	0.000753	0.000302	0.000455	No Reduct	No Reduct	0.000752	0.000752	0.000302	0.000454	No Reduct	No Reduct	0.000751
No Reduct	0.000657	0.000657	0.000263	0.000396	No Reduct	No Reduct	0.000656	0.000656	0.000263	0.000396	No Reduct	No Reduct	0.000655	0.000655	0.000263	0.000395	No Reduct	No Reduct	0.000654
No Reduct	0.000572	0.000572	0.00023	0.000352	No Reduct	No Reduct	0.000589	0.000589	0.000229	0.000351	No Reduct	No Reduct	0.000588	0.000588	0.000229	0.000351	No Reduct	No Reduct	0.000588
No Reduct	0.000757	0.000757	0.000294	0.000451	No Reduct	No Reduct	0.000756	0.000756	0.000294	0.00045	No Reduct	No Reduct	0.000755	0.000755	0.000301	0.000461	No Reduct	No Reduct	0.000772
No Reduct	0.000684	0.000684	0.000266	0.000407	No Reduct	No Reduct	0.000683	0.000683	0.000265	0.000407	No Reduct	No Reduct	0.000682	0.000682	0.000265	0.000406	No Reduct	No Reduct	0.000681
No Reduct	0.000185	0.000185	7.18E-05	0.00011	No Reduct	No Reduct	0.000185	0.000185	7.17E-05	0.00011	No Reduct	No Reduct	0.000184	0.000184	7.17E-05	0.00011	No Reduct	No Reduct	0.000184
No Reduct	3.7E-05	3.7E-05	1.44E-05	2.2E-05	No Reduct	No Reduct	3.7E-05	3.7E-05	1.44E-05	2.2E-05	No Reduct	No Reduct	3.69E-05	3.69E-05	1.43E-05	2.2E-05	No Reduct	No Reduct	3.69E-05

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	2031						2032						2033					
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON
No Reduct	0.009309	0.009309	0.006908	0.006026	No Reduct	No Reduct	0.009295	0.009295	0.00694	0.006053	No Reduct	No Reduct	0.009338	0.009338	0.006931	0.006046	No Reduct	No Reduct	0.009326
No Reduct	0.046808	0.046808	0.034419	0.030215	No Reduct	No Reduct	0.046826	0.046826	0.034389	0.030189	No Reduct	No Reduct	0.046786	0.046786	0.034347	0.030152	No Reduct	No Reduct	0.046728
No Reduct	0.034046	0.034046	0.02486	0.021911	No Reduct	No Reduct	0.034055	0.034055	0.024866	0.021916	No Reduct	No Reduct	0.034063	0.034063	0.024879	0.021927	No Reduct	No Reduct	0.03408
No Reduct	0.006663	0.006663	0.004834	0.004272	No Reduct	No Reduct	0.006653	0.006653	0.004848	0.004285	No Reduct	No Reduct	0.006673	0.006673	0.004842	0.00428	No Reduct	No Reduct	0.006665
No Reduct	0.011251	0.011251	0.008114	0.007196	No Reduct	No Reduct	0.011234	0.011234	0.008102	0.007185	No Reduct	No Reduct	0.011218	0.011218	0.008114	0.007195	No Reduct	No Reduct	0.011234
No Reduct	0.001788	0.001788	0.001061	0.001082	No Reduct	No Reduct	0.001786	0.001786	0.001059	0.001081	No Reduct	No Reduct	0.001783	0.001783	0.001058	0.001079	No Reduct	No Reduct	0.001781
No Reduct	0.001105	0.001105	0.000654	0.000668	No Reduct	No Reduct	0.001103	0.001103	0.000653	0.000667	No Reduct	No Reduct	0.001101	0.001101	0.000652	0.000666	No Reduct	No Reduct	0.0011
No Reduct	0.000495	0.000495	0.000293	0.000299	No Reduct	No Reduct	0.000494	0.000494	0.000292	0.000299	No Reduct	No Reduct	0.000493	0.000493	0.000303	0.00031	No Reduct	No Reduct	0.000513
No Reduct	0.000754	0.000754	0.000445	0.000455	No Reduct	No Reduct	0.000753	0.000753	0.000445	0.000455	No Reduct	No Reduct	0.000752	0.000752	0.000444	0.000454	No Reduct	No Reduct	0.000751
No Reduct	0.000657	0.000657	0.000387	0.000396	No Reduct	No Reduct	0.000656	0.000656	0.000387	0.000396	No Reduct	No Reduct	0.000655	0.000655	0.000386	0.000395	No Reduct	No Reduct	0.000654
No Reduct	0.000572	0.000572	0.000337	0.000352	No Reduct	No Reduct	0.000589	0.000589	0.000337	0.000351	No Reduct	No Reduct	0.000588	0.000588	0.000337	0.000351	No Reduct	No Reduct	0.000588
No Reduct	0.000757	0.000757	0.000433	0.000451	No Reduct	No Reduct	0.000756	0.000756	0.000432	0.00045	No Reduct	No Reduct	0.000755	0.000755	0.000442	0.000461	No Reduct	No Reduct	0.000772
No Reduct	0.000684	0.000684	0.000391	0.000407	No Reduct	No Reduct	0.000683	0.000683	0.00039	0.000407	No Reduct	No Reduct	0.000682	0.000682	0.00039	0.000406	No Reduct	No Reduct	0.000681
No Reduct	0.000185	0.000185	0.000106	0.00011	No Reduct	No Reduct	0.000185	0.000185	0.000105	0.00011	No Reduct	No Reduct	0.000184	0.000184	0.000105	0.00011	No Reduct	No Reduct	0.000184
No Reduct	3.7E-05	3.7E-05	2.11E-05	2.2E-05	No Reduct	No Reduct	3.7E-05	3.7E-05	2.11E-05	2.2E-05	No Reduct	No Reduct	3.69E-05	3.69E-05	2.11E-05	2.2E-05	No Reduct	No Reduct	3.69E-05

0.001781	0.000719	0.001078	No Reduct	No Reduct	0.001778	0.001778	0.000718	0.001076	No Reduct	No Reduct	0.001776	0.001776
0.0011	0.000443	0.000665	No Reduct	No Reduct	0.001098	0.001098	0.000442	0.000664	No Reduct	No Reduct	0.001097	0.001097
0.000513	0.000206	0.00031	No Reduct	No Reduct	0.000512	0.000512	0.000206	0.000309	No Reduct	No Reduct	0.000511	0.000511
0.000751	0.000302	0.000453	No Reduct	No Reduct	0.00075	0.00075	0.000301	0.000453	No Reduct	No Reduct	0.000749	0.000749
0.000654	0.000262	0.000395	No Reduct	No Reduct	0.000653	0.000653	0.000262	0.000394	No Reduct	No Reduct	0.000652	0.000652
0.000588	0.000229	0.00035	No Reduct	No Reduct	0.000587	0.000587	0.000228	0.00035	No Reduct	No Reduct	0.000586	0.000586
0.000772	0.0003	0.00046	No Reduct	No Reduct	0.000771	0.000771	0.0003	0.000459	No Reduct	No Reduct	0.00077	0.00077
0.000681	0.000265	0.000406	No Reduct	No Reduct	0.00068	0.00068	0.000264	0.000405	No Reduct	No Reduct	0.000679	0.000679
0.000184	7.15E-05	0.00011	No Reduct	No Reduct	0.000184	0.000184	7.14E-05	0.00011	No Reduct	No Reduct	0.000184	0.000184
3.69E-05	1.43E-05	2.2E-05	No Reduct	No Reduct	3.68E-05	3.68E-05	1.43E-05	2.19E-05	No Reduct	No Reduct	3.68E-05	3.68E-05

2034						2035						
PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
0.009326	0.006942	0.006055	No Reduct	No Reduct	0.009341	0.009341	0.006932	0.006046	No Reduct	No Reduct	0.009327	0.009327
0.046728	0.03436	0.030163	No Reduct	No Reduct	0.046746	0.046746	0.034373	0.030175	No Reduct	No Reduct	0.046764	0.046764
0.03408	0.024885	0.021933	No Reduct	No Reduct	0.034089	0.034089	0.024891	0.021938	No Reduct	No Reduct	0.034097	0.034097
0.006665	0.004835	0.004273	No Reduct	No Reduct	0.006655	0.006655	0.004828	0.004267	No Reduct	No Reduct	0.006645	0.006645
0.011234	0.008102	0.007185	No Reduct	No Reduct	0.011218	0.011218	0.008112	0.007194	No Reduct	No Reduct	0.011231	0.011231
0.001781	0.001057	0.001078	No Reduct	No Reduct	0.001778	0.001778	0.001055	0.001076	No Reduct	No Reduct	0.001776	0.001776
0.0011	0.000651	0.000665	No Reduct	No Reduct	0.001098	0.001098	0.00065	0.000664	No Reduct	No Reduct	0.001097	0.001097
0.000513	0.000303	0.00031	No Reduct	No Reduct	0.000512	0.000512	0.000303	0.000309	No Reduct	No Reduct	0.000511	0.000511
0.000751	0.000443	0.000453	No Reduct	No Reduct	0.00075	0.00075	0.000443	0.000453	No Reduct	No Reduct	0.000749	0.000749
0.000654	0.000386	0.000395	No Reduct	No Reduct	0.000653	0.000653	0.000385	0.000394	No Reduct	No Reduct	0.000652	0.000652
0.000588	0.000336	0.00035	No Reduct	No Reduct	0.000587	0.000587	0.000336	0.00035	No Reduct	No Reduct	0.000586	0.000586
0.000772	0.000441	0.00046	No Reduct	No Reduct	0.000771	0.000771	0.000441	0.000459	No Reduct	No Reduct	0.00077	0.00077
0.000681	0.000389	0.000406	No Reduct	No Reduct	0.00068	0.00068	0.000388	0.000405	No Reduct	No Reduct	0.000679	0.000679
0.000184	0.000105	0.00011	No Reduct	No Reduct	0.000184	0.000184	0.000105	0.00011	No Reduct	No Reduct	0.000184	0.000184
3.69E-05	2.1E-05	2.2E-05	No Reduct	No Reduct	3.68E-05	3.68E-05	2.1E-05	2.19E-05	No Reduct	No Reduct	3.68E-05	3.68E-05

Final % Reduction

		NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
	1000	0.52%	0.67%	No Reduct	No Reduct	1.03%	1.03%
	2000	2.45%	3.16%	No Reduct	No Reduct	4.90%	4.90%
	3000	1.63%	2.11%	No Reduct	No Reduct	3.28%	3.28%
	4000	0.31%	0.40%	No Reduct	No Reduct	0.62%	0.62%
	5000	0.53%	0.70%	No Reduct	No Reduct	1.09%	1.09%
	6000	0.07%	0.10%	No Reduct	No Reduct	0.16%	0.16%
	7000	0.04%	0.06%	No Reduct	No Reduct	0.10%	0.10%
2012	8000	0.02%	0.03%	No Reduct	No Reduct	0.05%	0.05%
	9000	0.03%	0.05%	No Reduct	No Reduct	0.08%	0.08%
	10000	0.02%	0.03%	No Reduct	No Reduct	0.05%	0.05%
	11000	0.02%	0.03%	No Reduct	No Reduct	0.06%	0.06%
	12000	0.02%	0.04%	No Reduct	No Reduct	0.06%	0.06%
	13000	0.02%	0.03%	No Reduct	No Reduct	0.04%	0.04%
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	1000	0.47%	0.60%	No Reduct	No Reduct	0.93%	0.93%
	2000	2.34%	3.01%	No Reduct	No Reduct	4.67%	4.67%
	3000	1.69%	2.19%	No Reduct	No Reduct	3.40%	3.40%
	4000	0.33%	0.43%	No Reduct	No Reduct	0.67%	0.67%
	5000	0.55%	0.72%	No Reduct	No Reduct	1.13%	1.13%
	6000	0.07%	0.11%	No Reduct	No Reduct	0.18%	0.18%
	7000	0.04%	0.07%	No Reduct	No Reduct	0.11%	0.11%
2015	8000	0.02%	0.03%	No Reduct	No Reduct	0.05%	0.05%
	9000	0.03%	0.05%	No Reduct	No Reduct	0.08%	0.08%
	10000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%
	11000	0.02%	0.03%	No Reduct	No Reduct	0.06%	0.06%
	12000	0.03%	0.05%	No Reduct	No Reduct	0.08%	0.08%
	13000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	1000	0.47%	0.60%	No Reduct	No Reduct	0.93%	0.93%
	2000	2.34%	3.02%	No Reduct	No Reduct	4.67%	4.67%
	3000	1.69%	2.19%	No Reduct	No Reduct	3.41%	3.41%
	4000	0.33%	0.43%	No Reduct	No Reduct	0.67%	0.67%
	5000	0.55%	0.72%	No Reduct	No Reduct	1.12%	1.12%
	6000	0.07%	0.11%	No Reduct	No Reduct	0.18%	0.18%
	7000	0.04%	0.07%	No Reduct	No Reduct	0.11%	0.11%
2016	8000	0.02%	0.03%	No Reduct	No Reduct	0.05%	0.05%
	9000	0.03%	0.05%	No Reduct	No Reduct	0.07%	0.07%
	10000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%
	11000	0.02%	0.03%	No Reduct	No Reduct	0.06%	0.06%
	12000	0.03%	0.05%	No Reduct	No Reduct	0.08%	0.08%
	13000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	1000	0.47%	0.60%	No Reduct	No Reduct	0.93%	0.93%

Drilling Emissions in Lbs/Well Drilled

CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB
2012	001000	Construction	C.1 Well Drilling	889.3949598	52.74499254
2012	002000	Construction	C.1 Well Drilling	1165.785878	68.6565032
2012	003000	Construction	C.1 Well Drilling	1442.176795	84.56801385
2012	004000	Construction	C.1 Well Drilling	1718.567713	100.4795245
2012	005000	Construction	C.1 Well Drilling	2271.349549	132.3025458
2012	006000	Construction	C.1 Well Drilling	5143.498427	247.3684469
2012	007000	Construction	C.1 Well Drilling	6160.153671	295.8400441
2012	008000	Construction	C.1 Well Drilling	7685.136537	368.54744
2012	009000	Construction	C.1 Well Drilling	9210.119402	441.2548359
2012	010000	Construction	C.1 Well Drilling	11751.75751	562.433829
2012	011000	Construction	C.1 Well Drilling	17376.84905	812.3437041
2012	012000	Construction	C.1 Well Drilling	21706.00576	1014.177015
2012	013000	Construction	C.1 Well Drilling	26653.61343	1244.843656
2012	014000	Construction	C.1 Well Drilling	32838.12301	1533.176957
2012	015000	Construction	C.1 Well Drilling	40259.53452	1879.176919
2015	001000	Construction	C.1 Well Drilling	802.5835351	48.79234205
2015	002000	Construction	C.1 Well Drilling	1051.798768	63.53247208
2015	003000	Construction	C.1 Well Drilling	1301.014	78.27260212
2015	004000	Construction	C.1 Well Drilling	1550.229233	93.01273216
2015	005000	Construction	C.1 Well Drilling	2048.659698	122.4929922
2015	006000	Construction	C.1 Well Drilling	5123.472228	266.380754
2015	007000	Construction	C.1 Well Drilling	6137.179107	318.7425144
2015	008000	Construction	C.1 Well Drilling	7657.739424	397.285155
2015	009000	Construction	C.1 Well Drilling	9178.299741	475.8277956
2015	010000	Construction	C.1 Well Drilling	11712.56694	606.7321966
2015	011000	Construction	C.1 Well Drilling	17402.30073	885.5183604
2015	012000	Construction	C.1 Well Drilling	21739.14145	1105.754963
2015	013000	Construction	C.1 Well Drilling	26695.53085	1357.453936
2015	014000	Construction	C.1 Well Drilling	32891.01759	1672.077654
2015	015000	Construction	C.1 Well Drilling	40325.60169	2049.626115
2016	001000	Construction	C.1 Well Drilling	763.3389208	46.54759315
2016	002000	Construction	C.1 Well Drilling	1000.28455	60.61695792
2016	003000	Construction	C.1 Well Drilling	1237.23018	74.68632269
2016	004000	Construction	C.1 Well Drilling	1474.175809	88.75568746
2016	005000	Construction	C.1 Well Drilling	1948.067068	116.894417
2016	006000	Construction	C.1 Well Drilling	5042.783384	260.999804
2016	007000	Construction	C.1 Well Drilling	6040.839654	312.331865
2016	008000	Construction	C.1 Well Drilling	7537.924059	389.3299566
2016	009000	Construction	C.1 Well Drilling	9035.008464	466.3280481
2016	010000	Construction	C.1 Well Drilling	11530.14914	594.6582007
2016	011000	Construction	C.1 Well Drilling	17169.76603	870.1619411
2016	012000	Construction	C.1 Well Drilling	21449.08203	1086.617552
2016	013000	Construction	C.1 Well Drilling	26339.72888	1333.995392
2016	014000	Construction	C.1 Well Drilling	32453.03745	1643.217693
2016	015000	Construction	C.1 Well Drilling	39789.00774	2014.284454
2017	001000	Construction	C.1 Well Drilling	719.1407087	43.99990232

Amount of Drilling Emissions Reduced in Changing 121<hp<175 hp Engines to Tier 4i in Lbs/Well Drilled

COLB	SOXLB	PM10LB	PM25LB	CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB	COLB	SOXLB
650.4930445	0.766405804	40.20745903	36.99086231	2012	001000	Construction	C.1 Well Drilling	4.623517069	0.351588906	No Reduction	No Reduction
855.7315035	1.008083983	52.13380846	47.96310378	2012	002000	Construction	C.1 Well Drilling	28.58528195	2.172600162	No Reduction	No Reduction
1060.969963	1.249762162	64.06015789	58.93534526	2012	003000	Construction	C.1 Well Drilling	23.50371093	1.785803915	No Reduction	No Reduction
1266.208422	1.491440341	75.98650732	69.90758673	2012	004000	Construction	C.1 Well Drilling	5.277377702	0.400885236	No Reduction	No Reduction
1676.68534	1.974796699	99.83920617	91.85206968	2012	005000	Construction	C.1 Well Drilling	12.13311583	0.921409365	No Reduction	No Reduction
3961.954751	4.661204512	182.7774876	168.1552886	2012	006000	Construction	C.1 Well Drilling	3.369139467	0.242942627	No Reduction	No Reduction
4747.390168	5.585171161	218.447303	200.9715188	2012	007000	Construction	C.1 Well Drilling	2.577699842	0.185807842	No Reduction	No Reduction
5925.543293	6.971121135	271.9520261	250.195864	2012	008000	Construction	C.1 Well Drilling	1.684014285	0.121345402	No Reduction	No Reduction
7103.696418	8.357071108	325.4567491	299.4202092	2012	009000	Construction	C.1 Well Drilling	2.899112992	0.208852304	No Reduction	No Reduction
9067.284959	10.66698773	414.6312876	381.4607846	2012	010000	Construction	C.1 Well Drilling	2.357075754	0.169759732	No Reduction	No Reduction
13484.46933	15.8601023	592.2478825	544.8680519	2012	011000	Construction	C.1 Well Drilling	3.73020472	0.26714561	No Reduction	No Reduction
16846.89225	19.81478506	739.2027504	680.0665304	2012	012000	Construction	C.1 Well Drilling	5.035465236	0.360574012	No Reduction	No Reduction
20689.6613	24.3344225	907.1511709	834.5790772	2012	013000	Construction	C.1 Well Drilling	4.58232885	0.328092203	No Reduction	No Reduction
25493.12261	29.9839693	1117.086697	1027.719761	2012	014000	Construction	C.1 Well Drilling	1.694331572	0.121302769	No Reduction	No Reduction
31257.27618	36.76342545	1369.009327	1259.488581	2012	015000	Construction	C.1 Well Drilling	0.346315172	0.024792147	No Reduction	No Reduction
650.4930445	0.766405804	36.05112075	33.16703109	2015	001000	Construction	C.1 Well Drilling	3.778973652	0.294585529	No Reduction	No Reduction
855.7315035	1.008083983	46.72603737	42.98795438	2015	002000	Construction	C.1 Well Drilling	24.56917821	1.915261876	No Reduction	No Reduction
1060.969963	1.249762162	57.40095398	52.80887767	2015	003000	Construction	C.1 Well Drilling	21.99526449	1.714615307	No Reduction	No Reduction
1266.208422	1.491440341	68.0758706	62.62980095	2015	004000	Construction	C.1 Well Drilling	5.101029447	0.397644767	No Reduction	No Reduction
1676.68534	1.974796699	89.42570384	82.27164753	2015	005000	Construction	C.1 Well Drilling	11.3252213	0.882844404	No Reduction	No Reduction
3961.954751	4.661204512	183.9929422	169.2735068	2015	006000	Construction	C.1 Well Drilling	3.702276189	0.288606637	No Reduction	No Reduction
4747.390168	5.585171161	219.9862565	202.387356	2015	007000	Construction	C.1 Well Drilling	2.745508189	0.214022889	No Reduction	No Reduction
5925.543293	6.971121135	273.9762279	252.0581296	2015	008000	Construction	C.1 Well Drilling	1.559947829	0.121603918	No Reduction	No Reduction
7103.696418	8.357071108	327.9661993	301.7289033	2015	009000	Construction	C.1 Well Drilling	2.770467349	0.215968553	No Reduction	No Reduction
9067.284959	10.66698773	417.9494849	384.5135261	2015	010000	Construction	C.1 Well Drilling	3.157334416	0.246126325	No Reduction	No Reduction
13484.46933	15.8601023	602.454831	554.2584445	2015	011000	Construction	C.1 Well Drilling	3.961805286	0.308837915	No Reduction	No Reduction
16846.89225	19.81478506	752.061946	691.8969903	2015	012000	Construction	C.1 Well Drilling	6.549758735	0.510578804	No Reduction	No Reduction
20689.6613	24.3344225	923.041506	849.1981855	2015	013000	Construction	C.1 Well Drilling	7.065523717	0.550784665	No Reduction	No Reduction
25493.12261	29.9839693	1136.765956	1045.82468	2015	014000	Construction	C.1 Well Drilling	2.419074656	0.188576146	No Reduction	No Reduction
31257.27618	36.76342545	1393.235296	1281.776472	2015	015000	Construction	C.1 Well Drilling	0.593357935	0.046254526	No Reduction	No Reduction
650.4930445	0.766405804	33.77182493	31.07007894	2016	001000	Construction	C.1 Well Drilling	3.590568592	0.28074962	No Reduction	No Reduction
855.7315035	1.008083983	43.76261426	40.26160512	2016	002000	Construction	C.1 Well Drilling	23.37194588	1.82784719	No Reduction	No Reduction
1060.969963	1.249762162	53.7534036	49.45313131	2016	003000	Construction	C.1 Well Drilling	20.93289382	1.63730485	No Reduction	No Reduction
1266.208422	1.491440341	63.74419293	58.64465749	2016	004000	Construction	C.1 Well Drilling	4.845888216	0.379062887	No Reduction	No Reduction
1676.68534	1.974796699	83.72577159	77.02770987	2016	005000	Construction	C.1 Well Drilling	10.7582834	0.841644903	No Reduction	No Reduction
3961.954751	4.661204512	178.7846588	164.4818861	2016	006000	Construction	C.1 Well Drilling	3.640298055	0.282491806	No Reduction	No Reduction
4747.390168	5.585171161	213.7816992	196.6791633	2016	007000	Construction	C.1 Well Drilling	2.699687258	0.20950709	No Reduction	No Reduction
5925.543293	6.971121135	266.2772598	244.975079	2016	008000	Construction	C.1 Well Drilling	1.533993257	0.119048864	No Reduction	No Reduction
7103.696418	8.357071108	318.7728203	293.2709947	2016	009000	Construction	C.1 Well Drilling	2.724467091	0.211443554	No Reduction	No Reduction
9067.284959	10.66698773	406.2654213	373.7641876	2016	010000	Construction	C.1 Well Drilling	3.10502875	0.24098535	No Reduction	No Reduction
13484.46933	15.8601023	587.6133242	540.6042583	2016	011000	Construction	C.1 Well Drilling	3.904928065	0.303176356	No Reduction	No Reduction
16846.89225	19.81478506	733.5667911	674.8814478	2016	012000	Construction	C.1 Well Drilling	6.455855894	0.501236633	No Reduction	No Reduction
20689.6613	24.3344225	900.3707532	828.3410929	2016	013000	Construction	C.1 Well Drilling	6.964329344	0.540721043	No Reduction	No Reduction
25493.12261	29.9839693	1108.875706	1020.165649	2016	014000	Construction	C.1 Well Drilling	2.384457113	0.185134612	No Reduction	No Reduction
31257.27618	36.76342545	1359.081649	1250.355117	2016	015000	Construction	C.1 Well Drilling	0.584872511	0.04541116	No Reduction	No Reduction
650.4930445	0.766405804	31.39998534	28.88798652	2017	001000	Construction	C.1 Well Drilling	3.377565857	0.264982865	No Reduction	No Reduction

		Wells Drilled Each Year	Amount of Drilling Emissions Reduced in Changing 121<hp<175 Engines to Tier 4i in tons/year					
PM10LB	PM25LB		CALYEAR	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB
0.413447911	0.380372073	305	2012	0.70508635	0.05361731	No Reduction	No Reduction	0.06305081	0.05800674
2.556711602	2.352174972	1414	2012	20.2097943	1.53602831	No Reduction	No Reduction	1.8075951	1.6629877
2.102488907	1.934289616	930	2012	10.9292256	0.83039882	No Reduction	No Reduction	0.97765734	0.89944467
0.472123531	0.434353629	174	2012	0.45913186	0.03487702	No Reduction	No Reduction	0.04107475	0.03778877
1.085580088	0.998733594	300	2012	1.81996738	0.1382114	No Reduction	No Reduction	0.16283701	0.14981004
0.296217859	0.27252041	69	2012	0.11623531	0.00838152	No Reduction	No Reduction	0.01021952	0.00940195
0.226582123	0.208455547	44	2012	0.0567094	0.00408777	No Reduction	No Reduction	0.00498481	0.00458602
0.147992293	0.136152912	23	2012	0.01936616	0.00139547	No Reduction	No Reduction	0.00170191	0.00156576
0.254736532	0.234357599	33.00	2012	0.04783536	0.00344606	No Reduction	No Reduction	0.00420315	0.0038669
0.207074201	0.190508265	21	2012	0.0247493	0.00178248	No Reduction	No Reduction	0.00217428	0.00200034
0.326296369	0.300192668	25	2012	0.04662756	0.00333932	No Reduction	No Reduction	0.0040787	0.00375241
0.440430052	0.405195653	27	2012	0.06797878	0.00486775	No Reduction	No Reduction	0.00594581	0.00547014
0.400767101	0.368705734	20	2012	0.04582329	0.00328092	No Reduction	No Reduction	0.00400767	0.00368706
0.148176085	0.136322001	6	2012	0.00508299	0.00036391	No Reduction	No Reduction	0.00044453	0.00040897
0.030285202	0.027862386	1	2012	0.00017316	1.2396E-05	No Reduction	No Reduction	1.5143E-05	1.3931E-05
0.335767581	0.30890617	323	2015	0.61030424	0.04757556	No Reduction	No Reduction	0.05422646	0.04988835
2.183008991	2.008368527	1575	2015	19.3482278	1.50826873	No Reduction	No Reduction	1.71911958	1.58159021
1.954312921	1.797967722	1128	2015	12.4053292	0.96704303	No Reduction	No Reduction	1.10223249	1.0140538
0.453234277	0.416975516	218	2015	0.55601221	0.04334328	No Reduction	No Reduction	0.04940254	0.04545033
1.00626327	0.925762128	363	2015	2.05552767	0.16023626	No Reduction	No Reduction	0.18263678	0.16802583
0.328952923	0.302636666	89	2015	0.16475129	0.012843	No Reduction	No Reduction	0.01463841	0.01346733
0.243942601	0.224427187	55	2015	0.07550148	0.00588563	No Reduction	No Reduction	0.00670842	0.00617175
0.138603752	0.127515454	25	2015	0.01949935	0.00152005	No Reduction	No Reduction	0.00173255	0.00159394
0.246160267	0.226467436	37.00	2015	0.05125365	0.00399542	No Reduction	No Reduction	0.00455396	0.00418965
0.280533995	0.258091276	33.00	2015	0.05209602	0.00406108	No Reduction	No Reduction	0.00462881	0.00425851
0.352012459	0.323851471	31	2015	0.06140798	0.00478699	No Reduction	No Reduction	0.00545619	0.0050197
0.581956082	0.535399602	41	2015	0.13427005	0.01046687	No Reduction	No Reduction	0.0119301	0.01097569
0.627782589	0.577559983	36	2015	0.12717943	0.00991412	No Reduction	No Reduction	0.01130009	0.01039608
0.214938483	0.197743407	10	2015	0.01209537	0.00094288	No Reduction	No Reduction	0.00107469	0.00098872
0.05272076	0.0485031	2	2015	0.00059336	4.6255E-05	No Reduction	No Reduction	5.2721E-05	4.8503E-05
0.314222098	0.289084326	323	2016	0.57987683	0.04534106	No Reduction	No Reduction	0.05074687	0.04668712
2.045093501	1.881486259	1577	2016	18.4287793	1.44125751	No Reduction	No Reduction	1.61255623	1.48355192
1.831523555	1.685001516	1130	2016	11.827085	0.92507724	No Reduction	No Reduction	1.03481081	0.95202586
0.423967312	0.390049909	218	2016	0.52820182	0.04131785	No Reduction	No Reduction	0.04621244	0.04251544
0.941175504	0.865881388	363	2016	1.95262844	0.15275855	No Reduction	No Reduction	0.17082335	0.15715747
0.319319204	0.293773645	89	2016	0.16199326	0.01257089	No Reduction	No Reduction	0.0142097	0.01307293
0.236823518	0.217877631	55	2016	0.0742414	0.00576144	No Reduction	No Reduction	0.00651265	0.00599163
0.134573141	0.123807291	25	2016	0.01917492	0.00148811	No Reduction	No Reduction	0.00168216	0.00154759
0.239018962	0.219897435	37	2016	0.05040264	0.00391171	No Reduction	No Reduction	0.00442185	0.0040681
0.272416723	0.250623386	33	2016	0.05123297	0.00397626	No Reduction	No Reduction	0.00449488	0.00413529
0.342994678	0.315555112	31	2016	0.06052639	0.00469923	No Reduction	No Reduction	0.00531642	0.0048911
0.567072338	0.521706557	41	2016	0.13234505	0.01027535	No Reduction	No Reduction	0.01162498	0.01069498
0.611746677	0.562806944	36	2016	0.12535793	0.00973298	No Reduction	No Reduction	0.01101144	0.01013052
0.209453775	0.192697476	10	2016	0.01192229	0.00092567	No Reduction	No Reduction	0.00104727	0.00096349
0.051376551	0.047266427	2	2016	0.00058487	4.5411E-05	No Reduction	No Reduction	5.1377E-05	4.7266E-05
0.291712991	0.268375948	323	2017	0.54547689	0.04279473	No Reduction	No Reduction	0.04711165	0.04334272

VERA Emissions (tons/year)	Wells Drilled Each Year	VERA Emissions (tons/year-well)	VERA Fee Reduction	Year
0.821754468	305			
23.55341776	1414			
12.73728175	930			
0.535083623	174			
2.121015793	300			
0.134836348	69			
0.065781976	44			
0.022463548	23			
0.05548458	33.00			
0.028706052	21			
0.054045584	25			
0.078792336	27			
0.053111882	20			
0.005891431	6			
0.000200696	1			
0.712106272	323	0.002204663	15.37532242	2015
22.57561615	1575	0.014333725	99.96339492	2015
14.47460469	1128	0.012832096	89.49104001	2015
0.648758026	218	0.002975954	20.75430491	2015
2.398400708	363	0.006607164	46.07836512	2015
0.192232691	89	0.002159918	15.06326726	2015
0.088095526	55	0.001601737	11.17051272	2015
0.022751944	25	0.000910078	6.346882226	2015
0.059803029	37.00	0.001616298	11.27206284	2015
0.060785913	33.00	0.001841997	12.84608965	2015
0.071651163	31	0.002311328	16.11920028	2015
0.156667019	41	0.003821147	26.64867786	2015
0.148393637	36	0.004122045	28.74714521	2015
0.014112946	10	0.001411295	9.842368839	2015
0.000692333	2	0.000346167	2.414165942	2015
0.67596476	323	0.00209277	14.59497906	2016
21.48259306	1577	0.013622443	95.00291947	2016
13.78697306	1130	0.012200861	85.08880541	2016
0.615732107	218	0.002824459	19.69777851	2016
2.276210341	363	0.006270552	43.73082898	2016
0.188773853	89	0.002121055	14.79223431	2016
0.086515491	55	0.001573009	10.9701643	2016
0.022345191	25	0.000893808	6.233414419	2016
0.058736198	37	0.001587465	11.07097954	2016
0.059704109	33	0.001809215	12.61746828	2016
0.070542036	31	0.00227555	15.86968256	2016
0.15424538	41	0.003762082	26.23676288	2016
0.146102347	36	0.004058399	28.30327136	2016
0.013895227	10	0.001389523	9.690531658	2016
0.00068166	2	0.00034083	2.376949195	2016
0.635383267	323	0.001967131	13.71877059	2017

Amount of Construction - Well Drilling Emissions Reduced in Ch

Year	NOX	ROG	CO	SOX
2015	35.67	2.78	0.00	0.00
2016	34.00	2.66	0.00	0.00
2017	32.15	2.52	0.00	0.00
2018	27.73	2.19	0.00	0.00
2019	25.57	2.04	0.00	0.00
2020	21.33	1.84	0.00	0.00
2021	20.52	1.79	0.00	0.00
2022	15.56	1.50	0.00	0.00
2023	14.35	1.44	0.00	0.00
2024	12.81	1.38	0.00	0.00
2025	11.96	1.34	0.00	0.00
2026	11.36	1.32	0.00	0.00
2027	10.88	1.31	0.00	0.00
2028	10.14	1.29	0.00	0.00
2029	9.81	1.26	0.00	0.00
2030	9.82	1.26	0.00	0.00
2031	9.84	1.26	0.00	0.00
2032	9.85	1.26	0.00	0.00
2033	9.85	1.27	0.00	0.00
2034	9.87	1.27	0.00	0.00
2035	9.89	1.27	0.00	0.00

hanging 120<hp<175 hp Engines to Tier 4i		
PM10	PM25	VERA Fee Reduction Per Well
3.17	2.92	$412.13
2.98	2.74	$396.28
2.78	2.56	$379.83
2.30	2.12	$340.34
2.08	1.91	$302.19
1.76	1.62	$268.44
1.64	1.51	$260.53
1.24	1.14	$221.41
1.10	1.01	$210.87
0.97	0.90	$199.49
0.88	0.81	$192.45
0.80	0.74	$158.73
0.74	0.68	$154.70
0.68	0.63	$149.08
0.66	0.60	$146.41
0.66	0.60	$146.32
0.66	0.61	$146.46
0.66	0.61	$146.36
0.66	0.61	$146.72
0.66	0.61	$146.60
0.66	0.61	$146.51
	Average:	**$222.47**

	2000	2.34%	3.02%	No Reduct	No Reduct	4.68%	4.68%	2017	002000	Construction	C.1 Well Drilling	942.654357	57.33159172
	3000	1.69%	2.19%	No Reduct	No Reduct	3.41%	3.41%	2017	003000	Construction	C.1 Well Drilling	1166.168005	70.66328112
	4000	0.33%	0.43%	No Reduct	No Reduct	0.67%	0.67%	2017	004000	Construction	C.1 Well Drilling	1389.681653	83.99497053
	5000	0.55%	0.72%	No Reduct	No Reduct	1.12%	1.12%	2017	005000	Construction	C.1 Well Drilling	1836.70895	110.6583493
	6000	0.07%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2017	006000	Construction	C.1 Well Drilling	4995.849988	257.5406623
	7000	0.04%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2017	007000	Construction	C.1 Well Drilling	5985.300033	308.2478279
2017	8000	0.02%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2017	008000	Construction	C.1 Well Drilling	7469.4751	384.3085764
	9000	0.03%	0.05%	No Reduct	No Reduct	0.07%	0.07%	2017	009000	Construction	C.1 Well Drilling	8953.650168	460.3693248
	10000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2017	010000	Construction	C.1 Well Drilling	11427.27528	587.1372389
	11000	0.02%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2017	011000	Construction	C.1 Well Drilling	17043.46992	860.972981
	12000	0.03%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2017	012000	Construction	C.1 Well Drilling	21292.18745	1075.215018
	13000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2017	013000	Construction	C.1 Well Drilling	26147.86464	1320.06306
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2017	014000	Construction	C.1 Well Drilling	32217.46112	1626.123112
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2017	015000	Construction	C.1 Well Drilling	39500.9769	1993.395175
	1000	0.47%	0.61%	No Reduct	No Reduct	0.93%	0.93%	2018	001000	Construction	C.1 Well Drilling	618.2650511	38.07086535
	2000	2.34%	3.02%	No Reduct	No Reduct	4.67%	4.67%	2018	002000	Construction	C.1 Well Drilling	810.1939548	49.62555854
	3000	1.69%	2.19%	No Reduct	No Reduct	3.41%	3.41%	2018	003000	Construction	C.1 Well Drilling	1002.122858	61.18025173
	4000	0.33%	0.43%	No Reduct	No Reduct	0.67%	0.67%	2018	004000	Construction	C.1 Well Drilling	1194.051762	72.73494492
	5000	0.55%	0.72%	No Reduct	No Reduct	1.12%	1.12%	2018	005000	Construction	C.1 Well Drilling	1577.909569	95.84433131
	6000	0.07%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2018	006000	Construction	C.1 Well Drilling	4823.38249	244.8783498
	7000	0.04%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2018	007000	Construction	C.1 Well Drilling	5779.56332	293.1726627
2018	8000	0.02%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2018	008000	Construction	C.1 Well Drilling	7213.834565	365.6141319
	9000	0.03%	0.05%	No Reduct	No Reduct	0.07%	0.07%	2018	009000	Construction	C.1 Well Drilling	8648.10581	438.0556011
	10000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2018	010000	Construction	C.1 Well Drilling	11038.55788	558.7913832
	11000	0.02%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2018	011000	Construction	C.1 Well Drilling	16557.08617	825.6487898
	12000	0.03%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2018	012000	Construction	C.1 Well Drilling	20685.73813	1031.209291
	13000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2018	013000	Construction	C.1 Well Drilling	25404.19751	1266.135578
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2018	014000	Construction	C.1 Well Drilling	31302.27173	1559.793436
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2018	015000	Construction	C.1 Well Drilling	38379.9608	1912.182867
	1000	0.47%	0.60%	No Reduct	No Reduct	0.93%	0.93%	2019	001000	Construction	C.1 Well Drilling	569.7563561	35.5442175
	2000	2.34%	3.02%	No Reduct	No Reduct	4.68%	4.68%	2019	002000	Construction	C.1 Well Drilling	746.8582133	46.37616294
	3000	1.69%	2.19%	No Reduct	No Reduct	3.40%	3.40%	2019	003000	Construction	C.1 Well Drilling	923.9600705	57.20810837
	4000	0.33%	0.43%	No Reduct	No Reduct	0.67%	0.67%	2019	004000	Construction	C.1 Well Drilling	1101.061928	68.04005381
	5000	0.55%	0.72%	No Reduct	No Reduct	1.13%	1.13%	2019	005000	Construction	C.1 Well Drilling	1455.265642	89.70394468
	6000	0.07%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2019	006000	Construction	C.1 Well Drilling	4096.004555	186.2976253
	7000	0.04%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2019	007000	Construction	C.1 Well Drilling	4907.51531	222.9474742
2019	8000	0.02%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2019	008000	Construction	C.1 Well Drilling	6124.781441	277.9222474
	9000	0.03%	0.05%	No Reduct	No Reduct	0.07%	0.07%	2019	009000	Construction	C.1 Well Drilling	7342.047572	332.8970206
	10000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2019	010000	Construction	C.1 Well Drilling	9370.824458	424.5216427
	11000	0.02%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2019	011000	Construction	C.1 Well Drilling	14035.91596	622.1002856
	12000	0.03%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2019	012000	Construction	C.1 Well Drilling	17535.28226	776.8632618
	13000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2019	013000	Construction	C.1 Well Drilling	21534.55802	953.7352345
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2019	014000	Construction	C.1 Well Drilling	26533.65273	1174.8252
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2019	015000	Construction	C.1 Well Drilling	32532.56637	1440.133159
	1000	0.47%	0.61%	No Reduct	No Reduct	0.93%	0.93%	2020	001000	Construction	C.1 Well Drilling	473.7173815	31.85752448
	2000	2.34%	3.02%	No Reduct	No Reduct	4.68%	4.68%	2020	002000	Construction	C.1 Well Drilling	619.9858554	41.56484144
	3000	1.69%	2.19%	No Reduct	No Reduct	3.40%	3.40%	2020	003000	Construction	C.1 Well Drilling	766.2543294	51.27215841
	4000	0.33%	0.43%	No Reduct	No Reduct	0.67%	0.67%	2020	004000	Construction	C.1 Well Drilling	912.5228033	60.97947537
	5000	0.55%	0.72%	No Reduct	No Reduct	1.12%	1.12%	2020	005000	Construction	C.1 Well Drilling	1205.059751	80.39410929
	6000	0.07%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2020	006000	Construction	C.1 Well Drilling	4023.834188	181.5986855

855.7315035	1.008083983	40.71607697	37.45879081	2017	002000	Construction	C.1 Well Drilling	22.04794403	1.730549615	No Reduction	No Reduction
1060.969963	1.249762162	50.0321686	46.02959511	2017	003000	Construction	C.1 Well Drilling	19.71824144	1.548141181	No Reduction	No Reduction
1266.208422	1.491440341	59.34826023	54.60039941	2017	004000	Construction	C.1 Well Drilling	4.582169896	0.359832269	No Reduction	No Reduction
1676.68534	1.974796699	77.98044349	71.74200801	2017	005000	Construction	C.1 Well Drilling	10.12799666	0.795542612	No Reduction	No Reduction
3961.954751	4.661204512	174.9119482	160.9189923	2017	006000	Construction	C.1 Well Drilling	3.600975369	0.278327176	No Reduction	No Reduction
4747.390168	5.585171161	209.2039957	192.4676761	2017	007000	Construction	C.1 Well Drilling	2.670829752	0.206455562	No Reduction	No Reduction
5925.543293	6.971121135	260.6420671	239.7907017	2017	008000	Construction	C.1 Well Drilling	1.517769802	0.117336098	No Reduction	No Reduction
7103.696418	8.357071108	312.0801384	287.1137273	2017	009000	Construction	C.1 Well Drilling	2.695859508	0.208426733	No Reduction	No Reduction
9067.284959	10.66698773	397.8102572	365.9854367	2017	010000	Construction	C.1 Well Drilling	3.072681329	0.237578418	No Reduction	No Reduction
13484.46933	15.8601023	577.269724	531.0881461	2017	011000	Construction	C.1 Well Drilling	3.870355077	0.299522118	No Reduction	No Reduction
16846.89225	19.81478506	720.7242274	663.0662892	2017	012000	Construction	C.1 Well Drilling	6.398961977	0.495228398	No Reduction	No Reduction
20689.6613	24.3344225	884.6722312	813.8984527	2017	013000	Construction	C.1 Well Drilling	6.903166676	0.534266263	No Reduction	No Reduction
25493.12261	29.9839693	1089.607236	1002.438657	2017	014000	Construction	C.1 Well Drilling	2.363576203	0.182932163	No Reduction	No Reduction
31257.27618	36.76342545	1335.529242	1228.686903	2017	015000	Construction	C.1 Well Drilling	0.57976243	0.044872403	No Reduction	No Reduction
650.4930445	0.766405804	25.96951865	23.89195716	2018	001000	Construction	C.1 Well Drilling	2.917363926	0.23034818	No Reduction	No Reduction
855.7315035	1.008083983	33.66149016	30.96857094	2018	002000	Construction	C.1 Well Drilling	18.93321411	1.496632572	No Reduction	No Reduction
1060.969963	1.249762162	41.35346166	38.04518473	2018	003000	Construction	C.1 Well Drilling	16.9488584	1.340727287	No Reduction	No Reduction
1266.208422	1.491440341	49.04543317	45.12179851	2018	004000	Construction	C.1 Well Drilling	3.931190935	0.311125108	No Reduction	No Reduction
1676.68534	1.974796699	64.42937617	59.27502608	2018	005000	Construction	C.1 Well Drilling	8.711745821	0.689899086	No Reduction	No Reduction
3961.954751	4.661204512	163.1964128	150.1406998	2018	006000	Construction	C.1 Well Drilling	3.47142338	0.26424411	No Reduction	No Reduction
4747.390168	5.585171161	195.2569746	179.6364166	2018	007000	Construction	C.1 Well Drilling	2.575137516	0.196062779	No Reduction	No Reduction
5925.543293	6.971121135	243.3478172	223.8799918	2018	008000	Construction	C.1 Well Drilling	1.463615912	0.111460159	No Reduction	No Reduction
7103.696418	8.357071108	291.4386598	268.123567	2018	009000	Construction	C.1 Well Drilling	2.599939537	0.198025629	No Reduction	No Reduction
9067.284959	10.66698773	371.5900642	341.862859	2018	010000	Construction	C.1 Well Drilling	2.963686701	0.225767893	No Reduction	No Reduction
13484.46933	15.8601023	544.5728937	501.0070622	2018	011000	Construction	C.1 Well Drilling	3.75423817	0.28680046	No Reduction	No Reduction
16846.89225	19.81478506	679.9927161	625.5932988	2018	012000	Construction	C.1 Well Drilling	6.207337956	0.47424434	No Reduction	No Reduction
20689.6613	24.3344225	834.7582274	767.9775692	2018	013000	Construction	C.1 Well Drilling	6.696729116	0.511668175	No Reduction	No Reduction
25493.12261	29.9839693	1028.215117	945.9579072	2018	014000	Construction	C.1 Well Drilling	2.292974753	0.175205952	No Reduction	No Reduction
31257.27618	36.76342545	1260.363384	1159.534313	2018	015000	Construction	C.1 Well Drilling	0.562460307	0.042979412	No Reduction	No Reduction
650.4930445	0.766405804	23.45834049	21.58167325	2019	001000	Construction	C.1 Well Drilling	2.684424511	0.214737109	No Reduction	No Reduction
855.7315035	1.008083983	30.43243937	27.99784422	2019	002000	Construction	C.1 Well Drilling	17.47094189	1.40006245	No Reduction	No Reduction
1060.969963	1.249762162	37.40653826	34.4140152	2019	003000	Construction	C.1 Well Drilling	15.61715559	1.252898899	No Reduction	No Reduction
1266.208422	1.491440341	44.38063715	40.83018618	2019	004000	Construction	C.1 Well Drilling	3.619585467	0.290604744	No Reduction	No Reduction
1676.68534	1.974796699	58.32883492	53.66252813	2019	005000	Construction	C.1 Well Drilling	8.044572103	0.646499608	No Reduction	No Reduction
3961.954751	4.661204512	124.3601064	114.4112979	2019	006000	Construction	C.1 Well Drilling	2.94348901	0.200728182	No Reduction	No Reduction
4747.390168	5.585171161	148.7249189	136.8269254	2019	007000	Construction	C.1 Well Drilling	2.183298764	0.14887451	No Reduction	No Reduction
5925.543293	6.971121135	185.2721377	170.4503667	2019	008000	Construction	C.1 Well Drilling	1.240788175	0.084599171	No Reduction	No Reduction
7103.696418	8.357071108	221.8193565	204.0738079	2019	009000	Construction	C.1 Well Drilling	2.203969367	0.150261659	No Reduction	No Reduction
9067.284959	10.66698773	282.7313878	260.1128767	2019	010000	Construction	C.1 Well Drilling	2.512140125	0.171260979	No Reduction	No Reduction
13484.46933	15.8601023	411.1971285	378.3013582	2019	011000	Construction	C.1 Well Drilling	3.17778695	0.21576997	No Reduction	No Reduction
16846.89225	19.81478506	513.3623997	472.2934077	2019	012000	Construction	C.1 Well Drilling	5.254038315	0.356735253	No Reduction	No Reduction
20689.6613	24.3344225	630.1227096	579.7128928	2019	013000	Construction	C.1 Well Drilling	5.668123706	0.384841701	No Reduction	No Reduction
25493.12261	29.9839693	776.073097	713.9872492	2019	014000	Construction	C.1 Well Drilling	1.94073645	0.131765322	No Reduction	No Reduction
31257.27618	36.76342545	951.2135618	875.1164769	2019	015000	Construction	C.1 Well Drilling	0.476049138	0.032320629	No Reduction	No Reduction
650.4930445	0.766405804	19.78680255	18.20385834	2020	001000	Construction	C.1 Well Drilling	2.235438185	0.192766471	No Reduction	No Reduction
855.7315035	1.008083983	25.64783746	23.59601046	2020	002000	Construction	C.1 Well Drilling	14.49954398	1.25450711	No Reduction	No Reduction
1060.969963	1.249762162	31.50887236	28.98816257	2020	003000	Construction	C.1 Well Drilling	12.95489928	1.123187874	No Reduction	No Reduction
1266.208422	1.491440341	37.36990727	34.38031469	2020	004000	Construction	C.1 Well Drilling	3.008960391	0.261244641	No Reduction	No Reduction
1676.68534	1.974796699	49.09197709	45.16461892	2020	005000	Construction	C.1 Well Drilling	6.651450187	0.578532874	No Reduction	No Reduction
3961.954751	4.661204512	119.4004227	109.8483889	2020	006000	Construction	C.1 Well Drilling	2.887281665	0.195371325	No Reduction	No Reduction

1.904671771	1.752298251	1581	2017	17.4288998	1.36799947	No Reduction	No Reduction	1.50564303	1.38519177
1.703664837	1.567371506	1131	2017	11.1506655	0.87547384	No Reduction	No Reduction	0.96342247	0.88634859
0.395941926	0.364266555	219	2017	0.5017476	0.03940163	No Reduction	No Reduction	0.04335564	0.03988719
0.875268479	0.80524693	363	2017	1.83823139	0.14439098	No Reduction	No Reduction	0.15886123	0.14615232
0.311930899	0.286976405	89	2017	0.1602434	0.01238556	No Reduction	No Reduction	0.01388092	0.01277045
0.231402694	0.212890472	55	2017	0.07344782	0.00567753	No Reduction	No Reduction	0.00636357	0.00585449
0.131526405	0.121004295	25	2017	0.01897212	0.0014667	No Reduction	No Reduction	0.00164408	0.00151255
0.233647604	0.214955786	37	2017	0.0498734	0.00385589	No Reduction	No Reduction	0.00432248	0.00397668
0.266344672	0.245037098	33	2017	0.05069924	0.00392004	No Reduction	No Reduction	0.00439469	0.00404311
0.336448548	0.309532672	31	2017	0.0599905	0.00464259	No Reduction	No Reduction	0.00521495	0.00479776
0.556303833	0.511799533	41	2017	0.13117872	0.01015218	No Reduction	No Reduction	0.01140423	0.01049189
0.600173431	0.552159558	36	2017	0.124257	0.00961679	No Reduction	No Reduction	0.01080312	0.00993887
0.205503599	0.189063315	10	2017	0.01181788	0.00091466	No Reduction	No Reduction	0.00102752	0.00094532
0.050410027	0.046377225	2	2017	0.00057976	4.4872E-05	No Reduction	No Reduction	5.041E-05	4.6377E-05
0.242390829	0.22299956	325	2018	0.47407164	0.03743158	No Reduction	No Reduction	0.03938851	0.03623743
1.573284578	1.447421995	1582	2018	14.9761724	1.18383636	No Reduction	No Reduction	1.2444681	1.1449108
1.408507381	1.295826672	1133	2018	9.60152829	0.75952201	No Reduction	No Reduction	0.79791943	0.73408581
0.326713585	0.300576484	219	2018	0.43046541	0.0340682	No Reduction	No Reduction	0.03577514	0.03291313
0.724068064	0.666142561	364	2018	1.58553774	0.12556163	No Reduction	No Reduction	0.13178039	0.12123795
0.290599356	0.267351387	89	2018	0.15447834	0.01175886	No Reduction	No Reduction	0.01293167	0.01189714
0.215650322	0.198398291	55	2018	0.07081628	0.00539173	No Reduction	No Reduction	0.00593038	0.00545595
0.122614269	0.11280513	25	2018	0.0182952	0.00139325	No Reduction	No Reduction	0.00153268	0.00141006
0.217865009	0.200435799	37	2018	0.04809888	0.00366347	No Reduction	No Reduction	0.0040305	0.00370806
0.248414676	0.228541502	33	2018	0.04890083	0.00372517	No Reduction	No Reduction	0.00409884	0.00377093
0.316913703	0.291560615	31	2018	0.05819069	0.00444541	No Reduction	No Reduction	0.00491216	0.00451919
0.524073635	0.48214775	41	2018	0.12725043	0.00972201	No Reduction	No Reduction	0.01074351	0.00988403
0.565457799	0.520221177	36	2018	0.12054112	0.00921003	No Reduction	No Reduction	0.01017824	0.00936398
0.193632636	0.178142028	10	2018	0.01146487	0.00087603	No Reduction	No Reduction	0.00096816	0.00089071
0.047501183	0.043701089	2	2018	0.00056246	4.2979E-05	No Reduction	No Reduction	4.7501E-05	4.3701E-05
0.218622912	0.201133077	325	2019	0.43621898	0.03489478	No Reduction	No Reduction	0.03552622	0.03268412
1.423814866	1.309909843	1586	2019	13.8544569	1.11024952	No Reduction	No Reduction	1.12908519	1.03875851
1.273280321	1.171417788	1134	2019	8.85492722	0.71039368	No Reduction	No Reduction	0.72194994	0.66419389
0.295194497	0.271578925	219	2019	0.39634461	0.03182122	No Reduction	No Reduction	0.0323238	0.02973789
0.656321082	0.603815343	365	2019	1.46813441	0.11798618	No Reduction	No Reduction	0.1197786	0.1101963
0.221111449	0.203422517	89	2019	0.13098526	0.0089324	No Reduction	No Reduction	0.00983946	0.0090523
0.164011161	0.150890264	55	2019	0.06004072	0.00409405	No Reduction	No Reduction	0.00451031	0.00414948
0.09321156	0.085754637	25	2019	0.01550985	0.00105749	No Reduction	No Reduction	0.00116514	0.00107193
0.165571609	0.152325873	37	2019	0.04077343	0.00277984	No Reduction	No Reduction	0.00306307	0.00281803
0.188726674	0.173628541	33	2019	0.04145031	0.00282581	No Reduction	No Reduction	0.00311399	0.00286487
0.238935773	0.219820917	31	2019	0.0492557	0.00334443	No Reduction	No Reduction	0.0037035	0.00340722
0.395055592	0.363451149	41	2019	0.10770779	0.00731307	No Reduction	No Reduction	0.00809864	0.00745075
0.426197334	0.392101548	36	2019	0.10202623	0.00692715	No Reduction	No Reduction	0.00767155	0.00705783
0.145929572	0.134255209	10	2019	0.00970368	0.00065883	No Reduction	No Reduction	0.00072965	0.00067128
0.035795859	0.032932191	2	2019	0.00047605	3.2321E-05	No Reduction	No Reduction	3.5796E-05	3.2932E-05
0.184695085	0.169919476	326	2020	0.36437642	0.03142093	No Reduction	No Reduction	0.0301053	0.02769687
1.19967032	1.103696834	1588	2020	11.5126379	0.99607865	No Reduction	No Reduction	0.95253823	0.87633529
1.072807337	0.98698266	1136	2020	7.35838279	0.63797071	No Reduction	No Reduction	0.60935457	0.56060615
0.249323032	0.229377179	220	2020	0.33098564	0.02873691	No Reduction	No Reduction	0.02742553	0.02523149
0.551557336	0.507432705	365	2020	1.21388966	0.10558225	No Reduction	No Reduction	0.10065921	0.09260647
0.211974246	0.195016291	89	2020	0.12848403	0.00869402	No Reduction	No Reduction	0.00943285	0.00867822

20.30254227	1581	0.012841583	89.55719782	2017
12.98956184	1131	0.011485024	80.09655548	2017
0.584504878	219	0.002668972	18.61341105	2017
2.141483606	363	0.005899404	41.14244261	2017
0.186509888	89	0.002095617	14.61483102	2017
0.08548892	55	0.001554344	10.83999508	2017
0.022082904	25	0.000883316	6.16024685	2017
0.058051776	37	0.001568967	10.94197532	2017
0.059013973	33	0.001788302	12.47161961	2017
0.069848049	31	0.002253163	15.71355787	2017
0.152735131	41	0.003725247	25.9798733	2017
0.144676915	36	0.004018803	28.02713341	2017
0.01376006	10	0.001376006	9.596265726	2017
0.000675045	2	0.000337522	2.353881428	2017
0.550891727	325	0.001695051	11.82128893	2018
17.40447683	1582	0.011001566	76.72491872	2018
11.15896973	1133	0.009849047	68.68725055	2018
0.500308744	219	0.002284515	15.93220631	2018
1.842879761	364	0.005062856	35.30836113	2018
0.179168875	89	0.002013133	14.03959249	2018
0.082138392	55	0.001493425	10.4151481	2018
0.021221129	25	0.000848845	5.919846218	2018
0.055792858	37	0.001507915	10.51619982	2018
0.056724843	33	0.001718935	11.98785014	2018
0.067548261	31	0.002178976	15.19617979	2018
0.147715947	41	0.003602828	25.12612223	2018
0.139929392	36	0.003886928	27.1074327	2018
0.013309067	10	0.001330907	9.281743123	2018
0.000652941	2	0.00032647	2.276804924	2018
0.506639986	325	0.001558892	10.87171466	2019
16.09379163	1586	0.01014741	70.76803456	2019
10.28727084	1134	0.009071667	63.26580847	2019
0.460489626	219	0.002102692	14.66417648	2019
1.705899185	365	0.004673696	32.59435867	2019
0.149757125	89	0.001682664	11.73490097	2019
0.068645072	55	0.001248092	8.704195122	2019
0.017732486	25	0.000709299	4.946654384	2019
0.046616349	37	0.001259901	8.786551787	2019
0.047390108	33	0.001436064	10.01510956	2019
0.056303637	31	0.001816246	12.66650202	2019
0.123119498	41	0.003002915	20.94232628	2019
0.116624929	36	0.003239581	22.59284048	2019
0.011092157	10	0.001109216	7.735670095	2019
0.000544166	2	0.000272083	1.897505537	2019
0.425902658	326	0.00130645	9.111181395	2020
13.4612548	1588	0.008476861	59.11762654	2020
8.605708072	1136	0.007575447	52.8311691	2020
0.387148087	220	0.001759764	12.27259436	2020
1.420131122	365	0.00389077	27.13423136	2020
0.146610912	89	0.001647314	11.48836517	2020

	7000	0.04%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2020	007000	Construction	C.1 Well Drilling	4821.618634	217.3713079
2020	8000	0.02%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2020	008000	Construction	C.1 Well Drilling	6018.295302	271.0302415
	9000	0.03%	0.05%	No Reduct	No Reduct	0.07%	0.07%	2020	009000	Construction	C.1 Well Drilling	7214.971971	324.6891751
	10000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2020	010000	Construction	C.1 Well Drilling	9209.433085	414.1207311
	11000	0.02%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2020	011000	Construction	C.1 Well Drilling	13837.57353	609.3806479
	12000	0.03%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2020	012000	Construction	C.1 Well Drilling	17288.23892	761.0419164
	13000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2020	013000	Construction	C.1 Well Drilling	21231.85651	934.3690805
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2020	014000	Construction	C.1 Well Drilling	26161.3785	1151.028036
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2020	015000	Construction	C.1 Well Drilling	32076.80488	1411.018782
	1000	0.47%	0.60%	No Reduct	No Reduct	0.93%	0.93%	2021	001000	Construction	C.1 Well Drilling	454.0675786	30.83737278
	2000	2.34%	3.02%	No Reduct	No Reduct	4.68%	4.68%	2021	002000	Construction	C.1 Well Drilling	594.768133	40.29517785
	3000	1.69%	2.19%	No Reduct	No Reduct	3.41%	3.41%	2021	003000	Construction	C.1 Well Drilling	735.4686874	49.75298292
	4000	0.33%	0.43%	No Reduct	No Reduct	0.67%	0.67%	2021	004000	Construction	C.1 Well Drilling	876.1692418	59.21078799
	5000	0.55%	0.72%	No Reduct	No Reduct	1.12%	1.12%	2021	005000	Construction	C.1 Well Drilling	1157.570351	78.12639812
	6000	0.07%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2021	006000	Construction	C.1 Well Drilling	3979.529499	180.8457994
	7000	0.04%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2021	007000	Construction	C.1 Well Drilling	4769.042215	216.5221677
2021	8000	0.02%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2021	008000	Construction	C.1 Well Drilling	5953.31129	270.0367203
	9000	0.03%	0.05%	No Reduct	No Reduct	0.07%	0.07%	2021	009000	Construction	C.1 Well Drilling	7137.580365	323.5512728
	10000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2021	010000	Construction	C.1 Well Drilling	9111.362157	412.7421937
	11000	0.02%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2021	011000	Construction	C.1 Well Drilling	13724.00099	609.9411943
	12000	0.03%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2021	012000	Construction	C.1 Well Drilling	17147.00976	761.8105034
	13000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2021	013000	Construction	C.1 Well Drilling	21059.01979	935.3754282
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2021	014000	Construction	C.1 Well Drilling	25949.03232	1152.331584
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2021	015000	Construction	C.1 Well Drilling	31817.04735	1412.678971
	1000	0.47%	0.60%	No Reduct	No Reduct	0.93%	0.93%	2022	001000	Construction	C.1 Well Drilling	341.9227276	25.77051109
	2000	2.34%	3.02%	No Reduct	No Reduct	4.68%	4.68%	2022	002000	Construction	C.1 Well Drilling	446.6023834	33.65855547
	3000	1.69%	2.19%	No Reduct	No Reduct	3.41%	3.41%	2022	003000	Construction	C.1 Well Drilling	551.2820392	41.54659984
	4000	0.33%	0.43%	No Reduct	No Reduct	0.67%	0.67%	2022	004000	Construction	C.1 Well Drilling	655.961695	49.43464421
	5000	0.55%	0.72%	No Reduct	No Reduct	1.12%	1.12%	2022	005000	Construction	C.1 Well Drilling	865.3210066	65.21073296
	6000	0.07%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2022	006000	Construction	C.1 Well Drilling	3920.329107	178.9607315
	7000	0.04%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2022	007000	Construction	C.1 Well Drilling	4698.818176	214.3316023
2022	8000	0.02%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2022	008000	Construction	C.1 Well Drilling	5866.55178	267.3879083
	9000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2022	009000	Construction	C.1 Well Drilling	7034.285384	320.4442144
	10000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2022	010000	Construction	C.1 Well Drilling	8980.508058	408.8713912
	11000	0.02%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2022	011000	Construction	C.1 Well Drilling	13571.14572	607.5116973
	12000	0.03%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2022	012000	Construction	C.1 Well Drilling	16956.96121	758.8630271
	13000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2022	013000	Construction	C.1 Well Drilling	20826.46463	931.8359755
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2022	014000	Construction	C.1 Well Drilling	25663.3439	1148.052161
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2022	015000	Construction	C.1 Well Drilling	31467.59903	1407.511583
	1000	0.47%	0.60%	No Reduct	No Reduct	0.93%	0.93%	2023	001000	Construction	C.1 Well Drilling	313.9175079	24.67658143
	2000	2.34%	3.02%	No Reduct	No Reduct	4.69%	4.69%	2023	002000	Construction	C.1 Well Drilling	410.0209101	32.26580395
	3000	1.69%	2.19%	No Reduct	No Reduct	3.40%	3.40%	2023	003000	Construction	C.1 Well Drilling	506.1243122	39.85502648
	4000	0.33%	0.43%	No Reduct	No Reduct	0.67%	0.67%	2023	004000	Construction	C.1 Well Drilling	602.2277144	47.444249
	5000	0.55%	0.72%	No Reduct	No Reduct	1.12%	1.12%	2023	005000	Construction	C.1 Well Drilling	794.4345188	62.62269405
	6000	0.07%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2023	006000	Construction	C.1 Well Drilling	3880.922951	178.4587114
	7000	0.04%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2023	007000	Construction	C.1 Well Drilling	4651.986081	213.7686709
2023	8000	0.02%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2023	008000	Construction	C.1 Well Drilling	5808.580775	266.7336101
	9000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2023	009000	Construction	C.1 Well Drilling	6965.17547	319.6985494
	10000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2023	010000	Construction	C.1 Well Drilling	8892.833295	407.9734481
	11000	0.02%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2023	011000	Construction	C.1 Well Drilling	13468.3814	608.4672392

4747.390168	5.585171161	142.8397677	131.4125863	2020	007000	Construction	C.1 Well Drilling	2.141861832	0.144932938	No Reduction	No Reduction
5925.543293	6.971121135	177.9987851	163.7588823	2020	008000	Construction	C.1 Well Drilling	1.217384121	0.082377315	No Reduction	No Reduction
7103.696418	8.357071108	213.1578026	196.1051784	2020	009000	Construction	C.1 Well Drilling	2.162569617	0.14633667	No Reduction	No Reduction
9067.284959	10.66698773	271.756165	250.0156718	2020	010000	Construction	C.1 Well Drilling	2.465165288	0.166814058	No Reduction	No Reduction
13484.46933	15.8601023	397.7571575	365.9365849	2020	011000	Construction	C.1 Well Drilling	3.128175056	0.211040763	No Reduction	No Reduction
16846.89225	19.81478506	496.6455224	456.9138806	2020	012000	Construction	C.1 Well Drilling	5.172235842	0.348945106	No Reduction	No Reduction
20689.6613	24.3344225	609.6607966	560.8879329	2020	013000	Construction	C.1 Well Drilling	5.580054196	0.376460874	No Reduction	No Reduction
25493.12261	29.9839693	750.9298894	690.8554982	2020	014000	Construction	C.1 Well Drilling	1.910632826	0.128902359	No Reduction	No Reduction
31257.27618	36.76342545	920.4528007	846.8165766	2020	015000	Construction	C.1 Well Drilling	0.468674851	0.031619648	No Reduction	No Reduction
650.4930445	0.766405804	18.29023578	16.82701692	2021	001000	Construction	C.1 Well Drilling	2.139498113	0.186313752	No Reduction	No Reduction
855.7315035	1.008083983	23.74861487	21.84872568	2021	002000	Construction	C.1 Well Drilling	13.90640742	1.215891357	No Reduction	No Reduction
1060.969963	1.249762162	29.20699396	26.87043444	2021	003000	Construction	C.1 Well Drilling	12.44854945	1.091147323	No Reduction	No Reduction
1266.208422	1.491440341	34.66537304	31.8921432	2021	004000	Construction	C.1 Well Drilling	2.884754219	0.253286835	No Reduction	No Reduction
1676.68534	1.974796699	45.58213122	41.93556072	2021	005000	Construction	C.1 Well Drilling	6.397222355	0.562908629	No Reduction	No Reduction
3961.954751	4.661204512	115.4316973	106.1971615	2021	006000	Construction	C.1 Well Drilling	2.851207825	0.194269497	No Reduction	No Reduction
4747.390168	5.585171161	138.135017	127.0842157	2021	007000	Construction	C.1 Well Drilling	2.115328549	0.144150221	No Reduction	No Reduction
5925.543293	6.971121135	172.1899967	158.4147969	2021	008000	Construction	C.1 Well Drilling	1.20243276	0.08195223	No Reduction	No Reduction
7103.696418	8.357071108	206.2449763	189.7453782	2021	009000	Construction	C.1 Well Drilling	2.136163693	0.145605085	No Reduction	No Reduction
9067.284959	10.66698773	263.0032757	241.9630136	2021	010000	Construction	C.1 Well Drilling	2.435255459	0.166009374	No Reduction	No Reduction
13484.46933	15.8601023	387.1571718	356.184598	2021	011000	Construction	C.1 Well Drilling	3.097846662	0.210918039	No Reduction	No Reduction
16846.89225	19.81478506	483.4676901	444.7902749	2021	012000	Construction	C.1 Well Drilling	5.122288415	0.348773564	No Reduction	No Reduction
20689.6613	24.3344225	593.5368539	546.0539056	2021	013000	Construction	C.1 Well Drilling	5.526328137	0.376301036	No Reduction	No Reduction
25493.12261	29.9839693	731.1233086	672.6334439	2021	014000	Construction	C.1 Well Drilling	1.892281951	0.128854769	No Reduction	No Reduction
31257.27618	36.76342545	896.2270543	824.5288899	2021	015000	Construction	C.1 Well Drilling	0.464182209	0.031609366	No Reduction	No Reduction
650.4930445	0.766405804	13.75387874	12.65356844	2022	001000	Construction	C.1 Well Drilling	1.608675435	0.155467501	No Reduction	No Reduction
855.7315035	1.008083983	17.82438787	16.39843684	2022	002000	Construction	C.1 Well Drilling	10.45925866	1.017301716	No Reduction	No Reduction
1060.969963	1.249762162	21.89489701	20.14330525	2022	003000	Construction	C.1 Well Drilling	9.325209094	0.910604785	No Reduction	No Reduction
1266.208422	1.491440341	25.96540614	23.88817365	2022	004000	Construction	C.1 Well Drilling	2.156494426	0.211150559	No Reduction	No Reduction
1676.68534	1.974796699	34.10642441	31.37791045	2022	005000	Construction	C.1 Well Drilling	4.774966675	0.469146231	No Reduction	No Reduction
3961.954751	4.661204512	110.3747683	101.5447868	2022	006000	Construction	C.1 Well Drilling	2.804585726	0.191956571	No Reduction	No Reduction
4747.390168	5.585171161	132.1412517	121.5699516	2022	007000	Construction	C.1 Well Drilling	2.081058796	0.142478129	No Reduction	No Reduction
5925.543293	6.971121135	164.7909768	151.6076987	2022	008000	Construction	C.1 Well Drilling	1.183134621	0.081026814	No Reduction	No Reduction
7103.696418	8.357071108	197.4407019	181.6454457	2022	009000	Construction	C.1 Well Drilling	2.102096012	0.143990855	No Reduction	No Reduction
9067.284959	10.66698773	251.8569104	231.7083575	2022	010000	Construction	C.1 Well Drilling	2.396686168	0.164206186	No Reduction	No Reduction
13484.46933	15.8601023	373.7364222	343.8375084	2022	011000	Construction	C.1 Well Drilling	3.058755311	0.209763273	No Reduction	No Reduction
16846.89225	19.81478506	466.7849399	429.4421447	2022	012000	Construction	C.1 Well Drilling	5.057928736	0.346903789	No Reduction	No Reduction
20689.6613	24.3344225	573.126103	527.2760147	2022	013000	Construction	C.1 Well Drilling	5.457115117	0.374315643	No Reduction	No Reduction
25493.12261	29.9839693	706.0525568	649.5683523	2022	014000	Construction	C.1 Well Drilling	1.868645719	0.128183964	No Reduction	No Reduction
31257.27618	36.76342545	865.5643015	796.3191573	2022	015000	Construction	C.1 Well Drilling	0.458396477	0.031446574	No Reduction	No Reduction
650.4930445	0.766405804	12.11604117	11.14675788	2023	001000	Construction	C.1 Well Drilling	1.479231586	0.149101411	No Reduction	No Reduction
855.7315035	1.008083983	15.71365812	14.45656547	2023	002000	Construction	C.1 Well Drilling	9.606207874	0.975580032	No Reduction	No Reduction
1060.969963	1.249762162	19.31127507	17.76637307	2023	003000	Construction	C.1 Well Drilling	8.556038862	0.872988167	No Reduction	No Reduction
1266.208422	1.491440341	22.90889202	21.07618066	2023	004000	Construction	C.1 Well Drilling	1.985867241	0.203265659	No Reduction	No Reduction
1676.68534	1.974796699	30.10412592	27.69579585	2023	005000	Construction	C.1 Well Drilling	4.377248727	0.449853308	No Reduction	No Reduction
3961.954751	4.661204512	106.7825202	98.23991859	2023	006000	Construction	C.1 Well Drilling	2.772242605	0.191131826	No Reduction	No Reduction
4747.390168	5.585171161	127.8743862	117.6444353	2023	007000	Construction	C.1 Well Drilling	2.057236105	0.141891399	No Reduction	No Reduction
5925.543293	6.971121135	159.5121851	146.7512103	2023	008000	Construction	C.1 Well Drilling	1.169691431	0.080707661	No Reduction	No Reduction
7103.696418	8.357071108	191.1499841	175.8579854	2023	009000	Construction	C.1 Well Drilling	2.078330672	0.143440953	No Reduction	No Reduction
9067.284959	10.66698773	243.879649	224.3692771	2023	010000	Construction	C.1 Well Drilling	2.369738554	0.163600531	No Reduction	No Reduction
13484.46933	15.8601023	363.9836776	334.8649834	2023	011000	Construction	C.1 Well Drilling	3.031053833	0.209779008	No Reduction	No Reduction

0.157284485	0.144701722	55	2020	0.0589012	0.00398566	No Reduction	No Reduction	0.00432532	0.0039793
0.089417761	0.082264342	25	2020	0.0152173	0.00102972	No Reduction	No Reduction	0.00111772	0.0010283
0.158867387	0.146157989	37	2020	0.04000754	0.00270723	No Reduction	No Reduction	0.00293905	0.00270392
0.181128069	0.166637823	33	2020	0.04067523	0.00275243	No Reduction	No Reduction	0.00298861	0.00274952
0.230778952	0.212316641	31	2020	0.04848671	0.00327113	No Reduction	No Reduction	0.00357707	0.00329091
0.381617051	0.351087691	41	2020	0.10603083	0.00715337	No Reduction	No Reduction	0.00782315	0.0071973
0.411738004	0.378798965	36	2020	0.10044098	0.0067763	No Reduction	No Reduction	0.00741128	0.00681838
0.140989627	0.129710459	10	2020	0.00955316	0.00064451	No Reduction	No Reduction	0.00070495	0.00064855
0.034586241	0.031819342	2	2020	0.00046867	3.162E-05	No Reduction	No Reduction	3.4586E-05	3.1819E-05
0.170469659	0.156832084	326	2021	0.34873819	0.03036914	No Reduction	No Reduction	0.02778655	0.02556363
1.110565408	1.021720305	1590	2021	11.0555939	0.96663363	No Reduction	No Reduction	0.8828995	0.81226764
0.99556403	0.915918823	1139	2021	7.08944891	0.6214084	No Reduction	No Reduction	0.56697371	0.52161577
0.230932112	0.212457533	220	2021	0.31732296	0.02786155	No Reduction	No Reduction	0.02540253	0.02337033
0.512756364	0.471735814	366	2021	1.17069169	0.10301228	No Reduction	No Reduction	0.09383441	0.08632765
0.204621086	0.188251385	89	2021	0.12687875	0.00864499	No Reduction	No Reduction	0.00910564	0.00837719
0.151875809	0.139725741	55	2021	0.05817154	0.00396413	No Reduction	No Reduction	0.00417658	0.00384246
0.086369965	0.079460369	25	2021	0.01503041	0.0010244	No Reduction	No Reduction	0.00107962	0.00099325
0.153484656	0.141205877	37	2021	0.03951903	0.00269369	No Reduction	No Reduction	0.00283947	0.00261231
0.175031244	0.161028744	33	2021	0.04018172	0.00273915	No Reduction	No Reduction	0.00288802	0.00265697
0.22429189	0.206348544	31	2021	0.04801662	0.00326923	No Reduction	No Reduction	0.00347652	0.0031984
0.37093411	0.341259385	41	2021	0.10500691	0.00714986	No Reduction	No Reduction	0.00760415	0.00699582
0.400247332	0.368227546	36	2021	0.09947391	0.00677342	No Reduction	No Reduction	0.00720445	0.0066281
0.137064968	0.126099772	10	2021	0.00946141	0.00064427	No Reduction	No Reduction	0.00068532	0.0006305
0.033625439	0.030935404	2	2021	0.00046418	3.1609E-05	No Reduction	No Reduction	3.3625E-05	3.0935E-05
0.127997658	0.117757844	326	2022	0.2622141	0.0253412	No Reduction	No Reduction	0.02086362	0.01919453
0.834897366	0.768105674	1595	2022	8.34125878	0.81129812	No Reduction	No Reduction	0.66583065	0.61256428
0.745856736	0.686188134	1140	2022	5.31536918	0.51904473	No Reduction	No Reduction	0.42513834	0.39112724
0.172716017	0.158898729	220	2022	0.23721439	0.02322656	No Reduction	No Reduction	0.01899876	0.01747886
0.383090754	0.352443463	366	2022	0.8738189	0.08585376	No Reduction	No Reduction	0.07010561	0.06449715
0.195363827	0.179734707	89	2022	0.12480406	0.00854207	No Reduction	No Reduction	0.00869369	0.00799819
0.14506822	0.133462759	55	2022	0.05722912	0.00391815	No Reduction	No Reduction	0.00398938	0.00367023
0.082534837	0.075932051	25	2022	0.01478918	0.00101284	No Reduction	No Reduction	0.00103169	0.00094915
0.146712568	0.134975557	37	2022	0.03888878	0.00266383	No Reduction	No Reduction	0.00271418	0.00249705
0.167362186	0.153973211	33	2022	0.03954532	0.0027094	No Reduction	No Reduction	0.00276148	0.00254056
0.216192554	0.198897155	31	2022	0.04741071	0.00325133	No Reduction	No Reduction	0.00335098	0.00308291
0.357598096	0.328990252	41	2022	0.10368754	0.00711153	No Reduction	No Reduction	0.00733076	0.0067443
0.385904631	0.355032261	36	2022	0.09822807	0.00673768	No Reduction	No Reduction	0.00694628	0.00639058
0.13216666	0.121593329	10	2022	0.00934323	0.00064092	No Reduction	No Reduction	0.00066083	0.00060797
0.032426367	0.029832258	2	2022	0.0004584	3.1447E-05	No Reduction	No Reduction	3.2426E-05	2.9832E-05
0.112932189	0.103897613	327	2023	0.24185436	0.02437808	No Reduction	No Reduction	0.01846441	0.01698726
0.736311994	0.67740712	1598	2023	7.67536009	0.77948845	No Reduction	No Reduction	0.58831328	0.54124829
0.657437199	0.604842167	1141	2023	4.88122017	0.49803975	No Reduction	No Reduction	0.37506792	0.34506246
0.152848505	0.140620618	221	2023	0.21943833	0.02246086	No Reduction	No Reduction	0.01688976	0.01553858
0.337630383	0.310619925	366	2023	0.80103652	0.08232316	No Reduction	No Reduction	0.06178636	0.05684345
0.188722872	0.173625029	89	2023	0.1233648	0.00850537	No Reduction	No Reduction	0.00839817	0.00772631
0.140173994	0.128960071	55	2023	0.05657399	0.00390201	No Reduction	No Reduction	0.00385478	0.0035464
0.079771499	0.073389781	25	2023	0.01462114	0.00100885	No Reduction	No Reduction	0.00099714	0.00091737
0.141825695	0.130479633	37	2023	0.03844912	0.00265366	No Reduction	No Reduction	0.00262378	0.00241387
0.161818827	0.148873321	33	2023	0.03910069	0.00269941	No Reduction	No Reduction	0.00267001	0.00245641
0.210236074	0.193417193	31	2023	0.04698133	0.00325157	No Reduction	No Reduction	0.00325866	0.00299797

0.06721218	55	0.00122204	8.522504361	2020
0.01736474	25	0.00069459	4.844067862	2020
0.045653813	37	0.001233887	8.605126803	2020
0.046416272	33	0.001406554	9.809305554	2020
0.055334919	31	0.001784997	12.44857176	2020
0.121007359	41	0.002951399	20.58305662	2020
0.114628555	36	0.003184127	22.20609847	2020
0.010902624	10	0.001090262	7.603490018	2020
0.000534881	2	0.00026744	1.865129143	2020
0.406893888	326	0.001248141	8.704533671	2021
12.90512703	1590	0.008116432	56.60399742	2021
8.277831028	1139	0.00726763	50.68445442	2021
0.370587048	220	0.001684487	11.74760943	2021
1.367538385	366	0.003736444	26.05795819	2021
0.144629379	89	0.001625049	11.33309315	2021
0.066312251	55	0.001205677	8.408393419	2021
0.017134437	25	0.000685377	4.779822527	2021
0.045052189	37	0.001217627	8.491728722	2021
0.045808885	33	0.001388148	9.680944418	2021
0.054762377	31	0.001766528	12.31976833	2021
0.11976092	41	0.002920998	20.37104036	2021
0.113451777	36	0.003151438	21.97813037	2021
0.010791008	10	0.001079101	7.525649286	2021
0.000529417	2	0.000264709	1.84607713	2021
0.308418917	326	0.00094607	6.597894253	2022
9.81838755	1595	0.006155729	42.93005315	2022
6.259552251	1140	0.005490835	38.29308544	2022
0.27943971	220	0.001270181	8.858238815	2022
1.02977827	366	0.002813602	19.62205917	2022
0.142039823	89	0.001595953	11.13017666	2022
0.065136641	55	0.001184303	8.259326141	2022
0.016833703	25	0.000673348	4.6959299	2022
0.04426679	37	0.0011964	8.34369163	2022
0.0450162	33	0.001364127	9.513423582	2022
0.054013023	31	0.001742356	12.15118774	2022
0.118129828	41	0.002881215	20.09359558	2022
0.111912037	36	0.003108668	21.6798485	2022
0.010644982	10	0.001064498	7.423810248	2022
0.000522269	2	0.000261135	1.821153459	2022
0.284696858	327	0.000870633	6.071791707	2023
9.04316182	1598	0.00565905	39.46621435	2023
5.754327842	1141	0.005043232	35.17150076	2023
0.258788945	221	0.001170991	8.166489159	2023
0.945146032	366	0.002582366	18.00942194	2023
0.14026833	89	0.001576049	10.9913633	2023
0.064330791	55	0.001169651	8.157144322	2023
0.016627132	25	0.000665085	4.638304853	2023
0.04372655	37	0.001181799	8.241863853	2023
0.044470106	33	0.001347579	9.398015643	2023
0.053491568	31	0.001725534	12.0338773	2023

	12000	0.03%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2023	012000	Construction	C.1 Well Drilling	16829.07493	760.1068205
	13000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2023	013000	Construction	C.1 Well Drilling	20669.86753	933.4091991
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2023	014000	Construction	C.1 Well Drilling	25470.85828	1150.037172
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2023	015000	Construction	C.1 Well Drilling	31232.04718	1409.99074
	1000	0.47%	0.60%	No Reduct	No Reduct	0.93%	0.93%	2024	001000	Construction	C.1 Well Drilling	279.1916833	23.5733669
	2000	2.34%	3.02%	No Reduct	No Reduct	4.68%	4.68%	2024	002000	Construction	C.1 Well Drilling	364.3215201	30.8390318
	3000	1.69%	2.19%	No Reduct	No Reduct	3.40%	3.40%	2024	003000	Construction	C.1 Well Drilling	449.451357	38.1046967
	4000	0.33%	0.43%	No Reduct	No Reduct	0.67%	0.67%	2024	004000	Construction	C.1 Well Drilling	534.5811938	45.3703616
	5000	0.55%	0.72%	No Reduct	No Reduct	1.13%	1.13%	2024	005000	Construction	C.1 Well Drilling	704.8408675	59.9016914
	6000	0.07%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2024	006000	Construction	C.1 Well Drilling	3872.359814	180.2189412
	7000	0.04%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2024	007000	Construction	C.1 Well Drilling	4642.071342	215.9074549
2024	8000	0.02%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2024	008000	Construction	C.1 Well Drilling	5796.638635	269.4402256
	9000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2024	009000	Construction	C.1 Well Drilling	6951.205927	322.9729963
	10000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2024	010000	Construction	C.1 Well Drilling	8875.484748	412.1942808
	11000	0.02%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2024	011000	Construction	C.1 Well Drilling	13456.8761	615.976267
	12000	0.03%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2024	012000	Construction	C.1 Well Drilling	16815.14459	769.5262407
	13000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2024	013000	Construction	C.1 Well Drilling	20653.16571	945.0119249
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2024	014000	Construction	C.1 Well Drilling	25450.69211	1164.36903
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2024	015000	Construction	C.1 Well Drilling	31207.7238	1427.597556
	1000	0.47%	0.60%	No Reduct	No Reduct	0.93%	0.93%	2025	001000	Construction	C.1 Well Drilling	259.2889181	22.75828312
	2000	2.34%	3.02%	No Reduct	No Reduct	4.68%	4.68%	2025	002000	Construction	C.1 Well Drilling	338.491929	29.80596118
	3000	1.69%	2.19%	No Reduct	No Reduct	3.40%	3.40%	2025	003000	Construction	C.1 Well Drilling	417.6949398	36.85363923
	4000	0.33%	0.43%	No Reduct	No Reduct	0.67%	0.67%	2025	004000	Construction	C.1 Well Drilling	496.8979507	43.90131728
	5000	0.55%	0.72%	No Reduct	No Reduct	1.12%	1.12%	2025	005000	Construction	C.1 Well Drilling	655.3039724	57.99667339
	6000	0.07%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2025	006000	Construction	C.1 Well Drilling	3854.5428	181.183546
	7000	0.04%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2025	007000	Construction	C.1 Well Drilling	4621.115383	217.0972054
2025	8000	0.02%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2025	008000	Construction	C.1 Well Drilling	5770.974257	270.9676945
	9000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2025	009000	Construction	C.1 Well Drilling	6920.833131	324.8381836
	10000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2025	010000	Construction	C.1 Well Drilling	8837.264589	414.6223321
	11000	0.02%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2025	011000	Construction	C.1 Well Drilling	13418.10925	621.1381394
	12000	0.03%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2025	012000	Construction	C.1 Well Drilling	16767.21659	776.018862
	13000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2025	013000	Construction	C.1 Well Drilling	20594.76783	953.0254021
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2025	014000	Construction	C.1 Well Drilling	25379.20689	1174.283577
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2025	015000	Construction	C.1 Well Drilling	31120.53376	1439.793387
	1000	0.47%	0.60%	No Reduct	No Reduct	0.93%	0.93%	2026	001000	Construction	C.1 Well Drilling	248.7099637	22.54780152
	2000	2.34%	3.02%	No Reduct	No Reduct	4.68%	4.68%	2026	002000	Construction	C.1 Well Drilling	324.8772241	29.55905691
	3000	1.69%	2.19%	No Reduct	No Reduct	3.40%	3.40%	2026	003000	Construction	C.1 Well Drilling	401.0444845	36.5703123
	4000	0.33%	0.43%	No Reduct	No Reduct	0.67%	0.67%	2026	004000	Construction	C.1 Well Drilling	477.2117449	43.58156769
	5000	0.55%	0.72%	No Reduct	No Reduct	1.12%	1.12%	2026	005000	Construction	C.1 Well Drilling	629.5462656	57.60407848
	6000	0.07%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2026	006000	Construction	C.1 Well Drilling	2751.246266	132.6260497
	7000	0.04%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2026	007000	Construction	C.1 Well Drilling	3297.453882	158.8484526
2026	8000	0.02%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2026	008000	Construction	C.1 Well Drilling	4116.765307	198.1820569
	9000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2026	009000	Construction	C.1 Well Drilling	4936.076732	237.5156612
	10000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2026	010000	Construction	C.1 Well Drilling	6301.595774	303.0716684
	11000	0.02%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2026	011000	Construction	C.1 Well Drilling	9527.043073	450.2183429
	12000	0.03%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2026	012000	Construction	C.1 Well Drilling	11903.7518	562.3944198
	13000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2026	013000	Construction	C.1 Well Drilling	14619.99034	690.5956505
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2026	014000	Construction	C.1 Well Drilling	18015.28851	850.8471889
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2026	015000	Construction	C.1 Well Drilling	22089.64632	1043.149035
	1000	0.47%	0.60%	No Reduct	No Reduct	0.93%	0.93%	2027	001000	Construction	C.1 Well Drilling	237.4394104	22.28579071

16846.89225	19.81478506	454.6487994	418.2768955	2023	012000	Construction	C.1 Well Drilling	5.012275616	0.346952723	No Reduction	No Reduction
20689.6613	24.3344225	558.2660815	513.604795	2023	013000	Construction	C.1 Well Drilling	5.407982481	0.374386863	No Reduction	No Reduction
25493.12261	29.9839693	687.7876841	632.7646694	2023	014000	Construction	C.1 Well Drilling	1.851856484	0.128213565	No Reduction	No Reduction
31257.27618	36.76342545	843.2136073	775.7565187	2023	015000	Construction	C.1 Well Drilling	0.454284727	0.031454851	No Reduction	No Reduction
650.4930445	0.766405804	10.7065109	9.849990027	2024	001000	Construction	C.1 Well Drilling	1.31363316	0.142222847	No Reduction	No Reduction
855.7315035	1.008083983	13.88905201	12.77792785	2024	002000	Construction	C.1 Well Drilling	8.528123504	0.931630778	No Reduction	No Reduction
1060.969963	1.249762162	17.07159313	15.70586568	2024	003000	Construction	C.1 Well Drilling	7.593284924	0.834132832	No Reduction	No Reduction
1266.208422	1.491440341	20.25413424	18.6338035	2024	004000	Construction	C.1 Well Drilling	1.760168086	0.194090227	No Reduction	No Reduction
1676.68534	1.974796699	26.61921647	24.48967915	2024	005000	Construction	C.1 Well Drilling	3.898988202	0.43201217	No Reduction	No Reduction
3961.954751	4.661204512	105.3744057	96.94445324	2024	006000	Construction	C.1 Well Drilling	2.824062442	0.197059814	No Reduction	No Reduction
4747.390168	5.585171161	126.2175093	116.1201086	2024	007000	Construction	C.1 Well Drilling	2.049786052	0.143097038	No Reduction	No Reduction
5925.543293	6.971121135	157.4821648	144.8835916	2024	008000	Construction	C.1 Well Drilling	1.16554352	0.08140488	No Reduction	No Reduction
7103.696418	8.357071108	188.7468202	173.6470746	2024	009000	Construction	C.1 Well Drilling	2.07106501	0.144693726	No Reduction	No Reduction
9067.284959	10.66698773	240.8545793	221.5862129	2024	010000	Construction	C.1 Well Drilling	2.361583779	0.165046289	No Reduction	No Reduction
13484.46933	15.8601023	360.6164814	331.7671629	2024	011000	Construction	C.1 Well Drilling	3.023942223	0.212050743	No Reduction	No Reduction
16846.89225	19.81478506	450.4808799	414.4424095	2024	012000	Construction	C.1 Well Drilling	5.000648145	0.350727723	No Reduction	No Reduction
20689.6613	24.3344225	553.1830496	508.9284056	2024	013000	Construction	C.1 Well Drilling	5.395543575	0.378474658	No Reduction	No Reduction
25493.12261	29.9839693	681.5607616	627.0359007	2024	014000	Construction	C.1 Well Drilling	1.847627153	0.129617529	No Reduction	No Reduction
31257.27618	36.76342545	835.6140162	768.7648949	2024	015000	Construction	C.1 Well Drilling	0.453253086	0.031800077	No Reduction	No Reduction
650.4930445	0.766405804	9.567177173	8.801802999	2025	001000	Construction	C.1 Well Drilling	1.221894283	0.137519821	No Reduction	No Reduction
855.7315035	1.008083983	12.43192262	11.43736881	2025	002000	Construction	C.1 Well Drilling	7.921579811	0.900204237	No Reduction	No Reduction
1060.969963	1.249762162	15.29666807	14.07293462	2025	003000	Construction	C.1 Well Drilling	7.058592254	0.80695435	No Reduction	No Reduction
1266.208422	1.491440341	18.16141351	16.70850043	2025	004000	Construction	C.1 Well Drilling	1.633652313	0.187525762	No Reduction	No Reduction
1676.68534	1.974796699	23.8909044	21.97963205	2025	005000	Construction	C.1 Well Drilling	3.61955854	0.417649475	No Reduction	No Reduction
3961.954751	4.661204512	103.286051	95.02316693	2025	006000	Construction	C.1 Well Drilling	2.806877268	0.197819158	No Reduction	No Reduction
4747.390168	5.585171161	123.7486731	113.8487792	2025	007000	Construction	C.1 Well Drilling	2.07453532	0.146283228	No Reduction	No Reduction
5925.543293	6.971121135	154.4426061	142.0871976	2025	008000	Construction	C.1 Well Drilling	1.158652931	0.081744301	No Reduction	No Reduction
7103.696418	8.357071108	185.1365392	170.325616	2025	009000	Construction	C.1 Well Drilling	2.058941064	0.145312348	No Reduction	No Reduction
9067.284959	10.66698773	236.2930943	217.3896467	2025	010000	Construction	C.1 Well Drilling	2.347908097	0.16577096	No Reduction	No Reduction
13484.46933	15.8601023	355.2807659	326.8583046	2025	011000	Construction	C.1 Well Drilling	3.010734915	0.213508896	No Reduction	No Reduction
16846.89225	19.81478506	443.8577221	408.3491044	2025	012000	Construction	C.1 Well Drilling	4.978959877	0.353159505	No Reduction	No Reduction
20689.6613	24.3344225	545.0885293	501.481447	2025	013000	Construction	C.1 Well Drilling	5.372265103	0.381114922	No Reduction	No Reduction
25493.12261	29.9839693	671.6270382	617.8968752	2025	014000	Construction	C.1 Well Drilling	1.839690414	0.130526303	No Reduction	No Reduction
31257.27618	36.76342545	823.473249	757.5953891	2025	015000	Construction	C.1 Well Drilling	0.451312823	0.032023921	No Reduction	No Reduction
650.4930445	0.766405804	8.829692143	8.123316771	2026	001000	Construction	C.1 Well Drilling	1.170296179	0.136045109	No Reduction	No Reduction
855.7315035	1.008083983	11.49217578	10.57280172	2026	002000	Construction	C.1 Well Drilling	7.601124857	0.892531621	No Reduction	No Reduction
1060.969963	1.249762162	14.15465942	13.02228666	2026	003000	Construction	C.1 Well Drilling	6.778958078	0.800956215	No Reduction	No Reduction
1266.208422	1.491440341	16.81714305	15.47177161	2026	004000	Construction	C.1 Well Drilling	1.573682722	0.18672388	No Reduction	No Reduction
1676.68534	1.974796699	22.14211033	20.3707415	2026	005000	Construction	C.1 Well Drilling	3.472109255	0.414204694	No Reduction	No Reduction
3961.954751	4.661204512	61.34753113	56.43972864	2026	006000	Construction	C.1 Well Drilling	2.000474146	0.144587702	No Reduction	No Reduction
4747.390168	5.585171161	73.44858911	67.57270198	2026	007000	Construction	C.1 Well Drilling	1.478106331	0.106875022	No Reduction	No Reduction
5925.543293	6.971121135	91.60017608	84.27216199	2026	008000	Construction	C.1 Well Drilling	0.825302694	0.059697649	No Reduction	No Reduction
7103.696418	8.357071108	109.751763	100.971622	2026	009000	Construction	C.1 Well Drilling	1.466291664	0.106091508	No Reduction	No Reduction
9067.284959	10.66698773	140.004408	128.8040554	2026	010000	Construction	C.1 Well Drilling	1.671732181	0.120991268	No Reduction	No Reduction
13484.46933	15.8601023	208.1908107	191.5355459	2026	011000	Construction	C.1 Well Drilling	2.134480788	0.154526828	No Reduction	No Reduction
16846.89225	19.81478506	260.0279531	239.2257169	2026	012000	Construction	C.1 Well Drilling	3.529510198	0.255559807	No Reduction	No Reduction
20689.6613	24.3344225	319.2704015	293.7287694	2026	013000	Construction	C.1 Well Drilling	3.913810282	0.283418023	No Reduction	No Reduction
25493.12261	29.9839693	393.3234621	361.8575851	2026	014000	Construction	C.1 Well Drilling	1.303949724	0.094434252	No Reduction	No Reduction
31257.27618	36.76342545	482.1871347	443.6121639	2026	015000	Construction	C.1 Well Drilling	0.319869127	0.023167204	No Reduction	No Reduction
650.4930445	0.766405804	8.101693118	7.453557668	2027	001000	Construction	C.1 Well Drilling	1.119003258	0.134673678	No Reduction	No Reduction

0.347779862	0.319957477	41	2023	0.10275165	0.00711253	No Reduction	No Reduction	0.00712949	0.00655913
0.375336728	0.345309791	36	2023	0.09734368	0.00673896	No Reduction	No Reduction	0.00675606	0.00621558
0.128555097	0.118270691	10	2023	0.00925928	0.00064107	No Reduction	No Reduction	0.00064278	0.00059135
0.031541808	0.029018464	2	2023	0.00045428	3.1455E-05	No Reduction	No Reduction	3.1542E-05	2.9018E-05
0.099645103	0.091673494	327	2024	0.21477902	0.02325344	No Reduction	No Reduction	0.01629197	0.01498862
0.65024925	0.598229386	1599	2024	6.81823474	0.74483881	No Reduction	No Reduction	0.51987428	0.47828439
0.580829715	0.534363288	1142	2024	4.33576569	0.47628985	No Reduction	No Reduction	0.33165377	0.30512144
0.134934121	0.124139386	221	2024	0.19449857	0.02144697	No Reduction	No Reduction	0.01491022	0.0137174
0.299728812	0.275750483	368	2024	0.71741383	0.07949024	No Reduction	No Reduction	0.0551501	0.05073809
0.19013492	0.174924113	91	2024	0.12849484	0.00896622	No Reduction	No Reduction	0.00865114	0.00795905
0.138151143	0.127099049	55	2024	0.05636912	0.00393517	No Reduction	No Reduction	0.00379916	0.00349522
0.078638688	0.072347594	25	2024	0.01456929	0.00101756	No Reduction	No Reduction	0.00098298	0.00090434
0.13983352	0.128646832	37	2024	0.0383147	0.00267683	No Reduction	No Reduction	0.00258692	0.00237997
0.159572992	0.146807153	33	2024	0.03896613	0.00272326	No Reduction	No Reduction	0.00263295	0.00242232
0.207980153	0.191341746	31	2024	0.0468711	0.00328679	No Reduction	No Reduction	0.00322369	0.0029658
0.344077075	0.316550913	41	2024	0.10251329	0.00718992	No Reduction	No Reduction	0.00705358	0.00648929
0.371363895	0.341654784	36	2024	0.09711978	0.00681254	No Reduction	No Reduction	0.00668455	0.00614979
0.127200986	0.117024909	10	2024	0.00923814	0.00064809	No Reduction	No Reduction	0.000636	0.00058512
0.031210857	0.028713988	2	2024	0.00045325	3.18E-05	No Reduction	No Reduction	3.1211E-05	2.8714E-05
0.089180493	0.082046052	328	2025	0.20039066	0.02255325	No Reduction	No Reduction	0.0146256	0.01345555
0.581889315	0.535338238	1601	2025	6.34122464	0.72061349	No Reduction	No Reduction	0.4658024	0.42853826
0.520575228	0.478929166	1144	2025	4.03751477	0.46157789	No Reduction	No Reduction	0.29776903	0.27394748
0.120811898	0.111146941	221	2025	0.18051858	0.0207216	No Reduction	No Reduction	0.01334971	0.01228174
0.268607278	0.247118674	368	2025	0.66599877	0.0768475	No Reduction	No Reduction	0.04942374	0.04546984
0.186088863	0.171201741	91	2025	0.12771292	0.00900077	No Reduction	No Reduction	0.00846704	0.00778968
0.137705957	0.126689477	56	2025	0.05808699	0.00409593	No Reduction	No Reduction	0.00385577	0.00354731
0.077005894	0.070845423	25	2025	0.01448316	0.0010218	No Reduction	No Reduction	0.00096257	0.00088557
0.136954323	0.125997972	37	2025	0.03809041	0.00268828	No Reduction	No Reduction	0.00253365	0.00233096
0.156317453	0.143812057	33	2025	0.03874048	0.00273522	No Reduction	No Reduction	0.00257924	0.0023729
0.204597337	0.188229555	31	2025	0.04666639	0.00330939	No Reduction	No Reduction	0.00317126	0.00291756
0.338512815	0.311431794	41	2025	0.10206868	0.00723977	No Reduction	No Reduction	0.00693951	0.00638435
0.365384245	0.336153506	36	2025	0.09670077	0.00686007	No Reduction	No Reduction	0.00657692	0.00605076
0.125160137	0.115147328	10	2025	0.00919845	0.00065263	No Reduction	No Reduction	0.0006258	0.00057574
0.030711528	0.028254606	2	2025	0.00045131	3.2024E-05	No Reduction	No Reduction	3.0712E-05	2.8255E-05
0.082183482	0.075608802	328	2026	0.19192857	0.0223114	No Reduction	No Reduction	0.01347809	0.01239984
0.537773578	0.494751755	1603	2026	6.09230157	0.71536409	No Reduction	No Reduction	0.43102552	0.39654353
0.481834174	0.443287399	1146	2026	3.88434298	0.45894791	No Reduction	No Reduction	0.27609098	0.25400368
0.112208539	0.103231851	222	2026	0.17467878	0.02072635	No Reduction	No Reduction	0.01245515	0.01145874
0.248574813	0.228688808	368	2026	0.6388681	0.07621366	No Reduction	No Reduction	0.04573777	0.04207874
0.110364328	0.101535174	91	2026	0.09102157	0.00657874	No Reduction	No Reduction	0.00502158	0.00461985
0.081610974	0.075082094	56	2026	0.04138698	0.0029925	No Reduction	No Reduction	0.00228511	0.0021023
0.04560433	0.041955984	25	2026	0.01031628	0.00074622	No Reduction	No Reduction	0.00057005	0.00052445
0.081067735	0.074582312	37	2026	0.0271264	0.00196269	No Reduction	No Reduction	0.00149975	0.00137977
0.092480693	0.085082238	33	2026	0.02758358	0.00199636	No Reduction	No Reduction	0.00152593	0.00140386
0.119713399	0.11013633	31	2026	0.03308445	0.00239517	No Reduction	No Reduction	0.00185556	0.00170711
0.198017831	0.182176406	41	2026	0.07235496	0.00523898	No Reduction	No Reduction	0.00405937	0.00373462
0.219630971	0.202060494	37	2026	0.07240549	0.00524323	No Reduction	No Reduction	0.00406317	0.00373812
0.073188128	0.067333079	10	2026	0.00651975	0.00047217	No Reduction	No Reduction	0.00036594	0.00033667
0.01795645	0.016519934	2	2026	0.00031987	2.3167E-05	No Reduction	No Reduction	1.7956E-05	1.652E-05
0.075524995	0.069482995	329	2027	0.18407604	0.02215382	No Reduction	No Reduction	0.01242386	0.01142995

0.116993668	41	0.002853504	19.9003376	2023
0.110838709	36	0.003078853	21.47192107	2023
0.010543126	10	0.001054313	7.352775886	2023
0.000517281	2	0.000258641	1.803760194	2023
0.254324432	327	0.000777751	5.424032373	2024
8.082947824	1599	0.005055002	35.25358232	2024
5.143709305	1142	0.004504124	31.41175893	2024
0.230855764	221	0.001044596	7.285014019	2024
0.85205417	368	0.002315365	16.14735267	2024
0.146112202	91	0.001605629	11.19765377	2024
0.064103441	55	0.001165517	8.128316372	2024
0.016569839	25	0.000662794	4.622322178	2024
0.043578457	37	0.001177796	8.213950197	2024
0.04432235	33	0.001343102	9.366790072	2024
0.053381583	31	0.001721987	12.00913426	2024
0.116756785	41	0.002847726	19.86004441	2024
0.110616878	36	0.003072691	21.42894748	2024
0.010522228	10	0.001052223	7.338202043	2024
0.000516264	2	0.000258132	1.800212634	2024
0.237569514	328	0.000724297	5.051249359	2025
7.527640527	1601	0.004701837	32.79060902	2025
4.796861689	1144	0.004193061	29.24240683	2025
0.214589892	221	0.000970995	6.771719037	2025
0.792270014	368	0.002152908	15.01437793	2025
0.145180731	91	0.001595393	11.1262683	2025
0.066038686	56	0.001179262	8.224174948	2025
0.016467539	25	0.000658702	4.5937847	2025
0.043312343	37	0.001170604	8.163791376	2025
0.044054942	33	0.001334998	9.310277831	2025
0.053147038	31	0.001714421	11.95636908	2025
0.11624796	41	0.002835316	19.77349447	2025
0.110137757	36	0.003059382	21.33613101	2025
0.010476884	10	0.001047688	7.306579092	2025
0.000514048	2	0.000257024	1.792486325	2025
0.227718062	328	0.000694262	4.841785874	2026
7.23869119	1603	0.004515715	31.4925966	2026
4.619381871	1146	0.004030874	28.1113169	2026
0.207860281	222	0.000936308	6.529808997	2026
0.760819532	368	0.002067444	14.41835711	2026
0.102621891	91	0.001127713	7.864671076	2026
0.046664585	56	0.000833296	5.811407443	2026
0.011632558	25	0.000465302	3.245018492	2026
0.030588842	37	0.000826725	5.765583313	2026
0.031105868	33	0.000942602	6.573706843	2026
0.037335176	31	0.001204361	8.399210182	2026
0.081653301	41	0.001991544	13.88902728	2026
0.081711897	37	0.00220843	15.40158829	2026
0.007357861	10	0.000735786	5.131371928	2026
0.000360993	2	0.000180496	1.258781824	2026
0.218653718	329	0.000664601	4.634927134	2027

	2000	2.34%	3.02%	No Reduct	No Reduct	4.68%	4.68%	2027	002000	Construction	C.1 Well Drilling	310.3226543	29.23918253
	3000	1.69%	2.19%	No Reduct	No Reduct	3.40%	3.40%	2027	003000	Construction	C.1 Well Drilling	383.2058981	36.19257436
	4000	0.33%	0.43%	No Reduct	No Reduct	0.67%	0.67%	2027	004000	Construction	C.1 Well Drilling	456.089142	43.14596618
	5000	0.55%	0.72%	No Reduct	No Reduct	1.12%	1.12%	2027	005000	Construction	C.1 Well Drilling	601.8556298	57.05274983
	6000	0.07%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2027	006000	Construction	C.1 Well Drilling	2732.765427	134.013557
	7000	0.04%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2027	007000	Construction	C.1 Well Drilling	3275.560577	160.5311453
2027	8000	0.02%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2027	008000	Construction	C.1 Well Drilling	4089.753302	200.3075278
	9000	0.03%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2027	009000	Construction	C.1 Well Drilling	4903.946026	240.0839103
	10000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2027	010000	Construction	C.1 Well Drilling	6260.9339	306.3778812
	11000	0.02%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2027	011000	Construction	C.1 Well Drilling	9482.797117	456.3735298
	12000	0.03%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2027	012000	Construction	C.1 Well Drilling	11848.79898	570.1105084
	13000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2027	013000	Construction	C.1 Well Drilling	14552.8011	700.0956269
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2027	014000	Construction	C.1 Well Drilling	17932.80376	862.5770249
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2027	015000	Construction	C.1 Well Drilling	21988.80695	1057.554703
	1000	0.47%	0.60%	No Reduct	No Reduct	0.93%	0.93%	2028	001000	Construction	C.1 Well Drilling	220.3047946	21.91287962
	2000	2.34%	3.02%	No Reduct	No Reduct	4.68%	4.68%	2028	002000	Construction	C.1 Well Drilling	287.738463	28.7537402
	3000	1.69%	2.19%	No Reduct	No Reduct	3.41%	3.41%	2028	003000	Construction	C.1 Well Drilling	355.1721314	35.59460077
	4000	0.33%	0.43%	No Reduct	No Reduct	0.67%	0.67%	2028	004000	Construction	C.1 Well Drilling	422.6057999	42.43546135
	5000	0.55%	0.72%	No Reduct	No Reduct	1.12%	1.12%	2028	005000	Construction	C.1 Well Drilling	557.4731368	56.11718251
	6000	0.07%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2028	006000	Construction	C.1 Well Drilling	2729.804588	136.2304136
	7000	0.04%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2028	007000	Construction	C.1 Well Drilling	3272.164748	163.1984367
2028	8000	0.02%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2028	008000	Construction	C.1 Well Drilling	4085.704988	203.6504715
	9000	0.03%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2028	009000	Construction	C.1 Well Drilling	4899.245228	244.1025062
	10000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2028	010000	Construction	C.1 Well Drilling	6255.145627	311.522564
	11000	0.02%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2028	011000	Construction	C.1 Well Drilling	9482.668135	464.5924702
	12000	0.03%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2028	012000	Construction	C.1 Well Drilling	11848.83422	580.3930133
	13000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2028	013000	Construction	C.1 Well Drilling	14553.02403	712.7364911
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2028	014000	Construction	C.1 Well Drilling	17933.2613	878.1658384
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2028	015000	Construction	C.1 Well Drilling	21989.54602	1076.681055
	1000	0.47%	0.60%	No Reduct	No Reduct	0.93%	0.93%	2029	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	2.34%	3.02%	No Reduct	No Reduct	4.68%	4.68%	2029	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	1.69%	2.19%	No Reduct	No Reduct	3.41%	3.41%	2029	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.33%	0.43%	No Reduct	No Reduct	0.66%	0.66%	2029	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	0.55%	0.72%	No Reduct	No Reduct	1.12%	1.12%	2029	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.07%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2029	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.04%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2029	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2029	8000	0.02%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2029	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.03%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2029	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2029	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.02%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2029	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.03%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2029	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2029	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2029	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2029	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	0.47%	0.60%	No Reduct	No Reduct	0.93%	0.93%	2030	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	2.34%	3.02%	No Reduct	No Reduct	4.68%	4.68%	2030	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	1.69%	2.19%	No Reduct	No Reduct	3.40%	3.40%	2030	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.33%	0.43%	No Reduct	No Reduct	0.67%	0.67%	2030	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	0.55%	0.72%	No Reduct	No Reduct	1.13%	1.13%	2030	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.07%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2030	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451

855.7315035	1.008083983	10.56198754	9.71702854	2027	002000	Construction	C.1 Well Drilling	7.254321719	0.882110505	No Reduction	No Reduction
1060.969963	1.249762162	13.02228197	11.98049941	2027	003000	Construction	C.1 Well Drilling	6.479085994	0.792885984	No Reduction	No Reduction
1266.208422	1.491440341	15.48257639	14.24397028	2027	004000	Construction	C.1 Well Drilling	1.501791614	0.184582746	No Reduction	No Reduction
1676.68534	1.974796699	20.40316524	18.77091203	2027	005000	Construction	C.1 Well Drilling	3.323460287	0.410743595	No Reduction	No Reduction
3961.954751	4.661204512	59.61227168	54.84328995	2027	006000	Construction	C.1 Well Drilling	1.984082471	0.145883154	No Reduction	No Reduction
4747.390168	5.585171161	71.39056405	65.67931893	2027	007000	Construction	C.1 Well Drilling	1.466109713	0.107846591	No Reduction	No Reduction
5925.543293	6.971121135	89.05800261	81.9333624	2027	008000	Construction	C.1 Well Drilling	0.818668638	0.060248197	No Reduction	No Reduction
7103.696418	8.357071108	106.7254412	98.18740587	2027	009000	Construction	C.1 Well Drilling	1.493894423	0.109973283	No Reduction	No Reduction
9067.284959	10.66698773	136.1711721	125.2774783	2027	010000	Construction	C.1 Well Drilling	1.658475915	0.122129333	No Reduction	No Reduction
13484.46933	15.8601023	203.5993388	187.3113917	2027	011000	Construction	C.1 Well Drilling	2.121409303	0.156406587	No Reduction	No Reduction
16846.89225	19.81478506	254.3189711	233.9734534	2027	012000	Construction	C.1 Well Drilling	3.507993647	0.258680971	No Reduction	No Reduction
20689.6613	24.3344225	312.2842651	287.3015239	2027	013000	Construction	C.1 Well Drilling	3.890031934	0.286889649	No Reduction	No Reduction
25493.12261	29.9839693	384.7408826	353.961612	2027	014000	Construction	C.1 Well Drilling	1.296049861	0.095593806	No Reduction	No Reduction
31257.27618	36.76342545	471.6888236	433.9537177	2027	015000	Construction	C.1 Well Drilling	0.317935569	0.023452221	No Reduction	No Reduction
650.4930445	0.766405804	7.431979033	6.83742071	2028	001000	Construction	C.1 Well Drilling	1.036710132	0.132223599	No Reduction	No Reduction
855.7315035	1.008083983	9.688992596	8.913873189	2028	002000	Construction	C.1 Well Drilling	6.733142084	0.868337668	No Reduction	No Reduction
1060.969963	1.249762162	11.94600616	10.99032567	2028	003000	Construction	C.1 Well Drilling	6.006634988	0.779984895	No Reduction	No Reduction
1266.208422	1.491440341	14.20301972	13.06677815	2028	004000	Construction	C.1 Well Drilling	1.389473419	0.18127365	No Reduction	No Reduction
1676.68534	1.974796699	18.71704685	17.2196831	2028	005000	Construction	C.1 Well Drilling	3.073809577	0.403408389	No Reduction	No Reduction
3961.954751	4.661204512	58.97986828	54.26147881	2028	006000	Construction	C.1 Well Drilling	1.978990791	0.148076224	No Reduction	No Reduction
4747.390168	5.585171161	70.64365426	64.99216192	2028	007000	Construction	C.1 Well Drilling	1.462415715	0.109475758	No Reduction	No Reduction
5925.543293	6.971121135	88.13933324	81.08818658	2028	008000	Construction	C.1 Well Drilling	0.816644225	0.061162757	No Reduction	No Reduction
7103.696418	8.357071108	105.6350122	97.18421124	2028	009000	Construction	C.1 Well Drilling	1.490246982	0.11164807	No Reduction	No Reduction
9067.284959	10.66698773	134.7944772	124.010919	2028	010000	Construction	C.1 Well Drilling	1.654483055	0.123995789	No Reduction	No Reduction
13484.46933	15.8601023	202.0884447	185.9213691	2028	011000	Construction	C.1 Well Drilling	2.118231442	0.158986998	No Reduction	No Reduction
16846.89225	19.81478506	252.4453213	232.2496956	2028	012000	Construction	C.1 Well Drilling	3.502796752	0.262955622	No Reduction	No Reduction
20689.6613	24.3344225	309.9960374	285.1963544	2028	013000	Construction	C.1 Well Drilling	3.88431702	0.291636151	No Reduction	No Reduction
25493.12261	29.9839693	381.9344325	351.3796779	2028	014000	Construction	C.1 Well Drilling	1.294159006	0.097176947	No Reduction	No Reduction
31257.27618	36.76342545	468.2605067	430.7996662	2028	015000	Construction	C.1 Well Drilling	0.317474291	0.023840923	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2029	001000	Construction	C.1 Well Drilling	1.001417473	0.128831641	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2029	002000	Construction	C.1 Well Drilling	6.491537457	0.844458333	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2029	003000	Construction	C.1 Well Drilling	5.793552275	0.758861299	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2029	004000	Construction	C.1 Well Drilling	1.337790932	0.176050458	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2029	005000	Construction	C.1 Well Drilling	2.967313995	0.392824473	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2029	006000	Construction	C.1 Well Drilling	1.975506537	0.149899828	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2029	007000	Construction	C.1 Well Drilling	1.459889092	0.110830433	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2029	008000	Construction	C.1 Well Drilling	0.815260245	0.061923212	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2029	009000	Construction	C.1 Well Drilling	1.487754271	0.113040636	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2029	010000	Construction	C.1 Well Drilling	1.651755313	0.125547703	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2029	011000	Construction	C.1 Well Drilling	2.11659494	0.161249359	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2029	012000	Construction	C.1 Well Drilling	3.500131679	0.266703187	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2029	013000	Construction	C.1 Well Drilling	3.881395624	0.295797208	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2029	014000	Construction	C.1 Well Drilling	1.293195011	0.098564773	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2029	015000	Construction	C.1 Well Drilling	0.317239631	0.02418166	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2030	001000	Construction	C.1 Well Drilling	0.999935356	0.128640968	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2030	002000	Construction	C.1 Well Drilling	6.494007983	0.844779714	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2030	003000	Construction	C.1 Well Drilling	5.789999385	0.758395928	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2030	004000	Construction	C.1 Well Drilling	1.341828142	0.176581746	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2030	005000	Construction	C.1 Well Drilling	2.97093021	0.393303202	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2030	006000	Construction	C.1 Well Drilling	1.972582748	0.149677973	No Reduction	No Reduction

0.493818757	0.454313314	1604		2027	5.81796602	0.70745263	No Reduction	No Reduction	0.39604264	0.36435928
0.443400755	0.407928657	1148		2027	3.71899536	0.45511655	No Reduction	No Reduction	0.25451203	0.23415105
0.103150374	0.09489834	222		2027	0.16669887	0.02048868	No Reduction	No Reduction	0.01144969	0.01053372
0.229333814	0.210987091	369		2027	0.61317842	0.07578219	No Reduction	No Reduction	0.04231209	0.03892712
0.107083164	0.098516503	91		2027	0.09027575	0.00663768	No Reduction	No Reduction	0.00487228	0.0044825
0.079206314	0.072869807	56		2027	0.04105107	0.0030197	No Reduction	No Reduction	0.00221778	0.00204035
0.044272761	0.040730941	25		2027	0.01023336	0.0007531	No Reduction	No Reduction	0.00055341	0.00050914
0.080842596	0.074375185	38		2027	0.02838399	0.00208949	No Reduction	No Reduction	0.00153601	0.00141313
0.089814908	0.082629716	33		2027	0.02736485	0.00201513	No Reduction	No Reduction	0.00148195	0.00136339
0.116899178	0.107547247	31		2027	0.03288184	0.0024243	No Reduction	No Reduction	0.00181194	0.00166698
0.193382383	0.177911794	41		2027	0.07191387	0.00530296	No Reduction	No Reduction	0.00396434	0.00364719
0.214505738	0.19734528	37		2027	0.07196559	0.00530746	No Reduction	No Reduction	0.00396836	0.00365089
0.071484685	0.065765912	10		2027	0.00648025	0.00047797	No Reduction	No Reduction	0.00035742	0.00032883
0.017539384	0.016136233	2		2027	0.00031794	2.3452E-05	No Reduction	No Reduction	1.7539E-05	1.6136E-05
0.069178994	0.063644674	329		2028	0.17053882	0.02175078	No Reduction	No Reduction	0.01137994	0.01046955
0.453458016	0.417181428	1608		2028	5.41344624	0.69814349	No Reduction	No Reduction	0.36458024	0.33541387
0.406858008	0.374309333	1150		2028	3.45381512	0.44849131	No Reduction	No Reduction	0.23394335	0.21522787
0.094485054	0.086926246	222		2028	0.15423155	0.02012138	No Reduction	No Reduction	0.01048784	0.00964881
0.210069365	0.193263799	369		2028	0.56711787	0.07442885	No Reduction	No Reduction	0.0387578	0.03565717
0.105789891	0.097326692	91		2028	0.09004408	0.00673747	No Reduction	No Reduction	0.00481344	0.00442836
0.078261289	0.072000384	56		2028	0.04094764	0.00306532	No Reduction	No Reduction	0.00219132	0.00201601
0.043751029	0.040250947	25		2028	0.01020805	0.00076453	No Reduction	No Reduction	0.00054689	0.00050314
0.079897838	0.073506008	38		2028	0.02831469	0.00212131	No Reduction	No Reduction	0.00151806	0.00139661
0.088774902	0.08167291	33		2028	0.02729897	0.00204593	No Reduction	No Reduction	0.00146479	0.0013476
0.11585944	0.106590688	31		2028	0.03283259	0.0024643	No Reduction	No Reduction	0.00179582	0.00165216
0.191672728	0.176338912	41		2028	0.07180733	0.00539059	No Reduction	No Reduction	0.00392929	0.00361495
0.212617889	0.195608459	37		2028	0.07185986	0.00539527	No Reduction	No Reduction	0.00393343	0.00361876
0.070857909	0.065189278	10		2028	0.0064708	0.00048588	No Reduction	No Reduction	0.00035429	0.00032595
0.017386058	0.015995174	2		2028	0.00031747	2.3841E-05	No Reduction	No Reduction	1.7386E-05	1.5995E-05
0.066634588	0.06130382	330		2029	0.16523388	0.02125722	No Reduction	No Reduction	0.01099471	0.01011513
0.436356724	0.401448237	1610		2029	5.22568765	0.67978896	No Reduction	No Reduction	0.35126716	0.32316583
0.391908264	0.360555569	1152		2029	3.33708611	0.43710411	No Reduction	No Reduction	0.22573916	0.20768001
0.090886947	0.083615987	222		2029	0.14849479	0.0195416	No Reduction	No Reduction	0.01008845	0.00928137
0.202707478	0.186490863	370		2029	0.54895309	0.07267253	No Reduction	No Reduction	0.03750088	0.03450081
0.104980332	0.096581898	91		2029	0.08988555	0.00682044	No Reduction	No Reduction	0.00477661	0.00439448
0.077672177	0.071458401	56		2029	0.04087689	0.00310325	No Reduction	No Reduction	0.00217482	0.00200084
0.043427182	0.039953009	25		2029	0.01019075	0.00077404	No Reduction	No Reduction	0.00054284	0.00049941
0.079313137	0.072968083	38		2029	0.02826733	0.00214777	No Reduction	No Reduction	0.00150695	0.00138639
0.088133356	0.081082688	33		2029	0.02725396	0.00207154	No Reduction	No Reduction	0.0014542	0.00133786
0.11528935	0.106066205	31		2029	0.03280722	0.00249937	No Reduction	No Reduction	0.00178698	0.00164403
0.190738321	0.175479258	41		2029	0.0717527	0.00546742	No Reduction	No Reduction	0.00391014	0.00359732
0.211588585	0.194661499	37		2029	0.07180582	0.00547225	No Reduction	No Reduction	0.00391439	0.00360124
0.070516864	0.064875516	10		2029	0.00646598	0.00049282	No Reduction	No Reduction	0.00035258	0.00032438
0.017302764	0.015918544	2		2029	0.00031724	2.4182E-05	No Reduction	No Reduction	1.7303E-05	1.5919E-05
0.066535967	0.061213089	330		2030	0.16498933	0.02122576	No Reduction	No Reduction	0.01097843	0.01010016
0.436522791	0.401601018	1613		2030	5.23741744	0.68131484	No Reduction	No Reduction	0.35205563	0.32389122
0.391667926	0.360334459	1153		2030	3.33793465	0.43721525	No Reduction	No Reduction	0.22579656	0.20773282
0.091161227	0.083868325	223		2030	0.14961384	0.01968886	No Reduction	No Reduction	0.01016448	0.00935132
0.202954514	0.186718137	371		2030	0.55110755	0.07295774	No Reduction	No Reduction	0.03764806	0.03463621
0.104824959	0.096438955	91		2030	0.08975252	0.00681035	No Reduction	No Reduction	0.00476954	0.00438797

6.921461287	1604	0.004315125	30.09368517	2027
4.428623949	1148	0.003857686	26.90350472	2027
0.198637245	222	0.000894762	6.240072746	2027
0.731272705	369	0.001981769	13.82085595	2027
0.10178572	91	0.001118524	7.800589125	2027
0.046288553	56	0.000826581	5.764578048	2027
0.01153987	25	0.000461595	3.219162123	2027
0.032009496	38	0.000842355	5.874584825	2027
0.030861933	33	0.00093521	6.522155084	2027
0.037118084	31	0.001197358	8.350371446	2027
0.081181169	41	0.001980029	13.80871876	2027
0.081241405	37	0.002195714	15.31290707	2027
0.007315642	10	0.000731564	5.101928564	2027
0.000358927	2	0.000179464	1.251579056	2027
0.203669543	329	0.000619056	4.317299074	2028
6.476169966	1608	0.004027469	28.087568	2028
4.136249788	1150	0.003596739	25.08365741	2028
0.184840766	222	0.000832616	5.806664412	2028
0.680304513	369	0.001843644	12.85757092	2028
0.101594989	91	0.001116428	7.785972032	2028
0.046204277	56	0.000825076	5.75408268	2028
0.011519475	25	0.000460779	3.213472782	2028
0.031954065	38	0.000840896	5.86441181	2028
0.030809687	33	0.000933627	6.51111381	2028
0.037092707	31	0.001196539	8.344662568	2028
0.081127215	41	0.001978713	13.79954133	2028
0.081188565	37	0.002194286	15.30294729	2028
0.007310969	10	0.000731097	5.098669998	2028
0.000358701	2	0.000179351	1.250791337	2028
0.197485811	330	0.000598442	4.173533468	2029
6.256743773	1610	0.003886176	27.10219321	2029
3.999929378	1152	0.003472161	24.21485024	2029
0.178124845	222	0.000802364	5.595687709	2029
0.6591265	370	0.001781423	12.42364382	2029
0.101482595	91	0.001115193	7.777358413	2029
0.046154968	56	0.000824196	5.747941864	2029
0.011507633	25	0.000460305	3.210169299	2029
0.031922053	38	0.000840054	5.858536752	2029
0.0307797	33	0.000932718	6.504776632	2029
0.037093572	31	0.001196567	8.344857036	2029
0.08113025	41	0.001978787	13.8000577	2029
0.081192456	37	0.002194391	15.3036808	2029
0.007311383	10	0.000731138	5.098958671	2029
0.000358724	2	0.000179362	1.250870781	2029
0.197193528	330	0.000597556	4.167356556	2030
6.270787909	1613	0.003887655	27.11250767	2030
4.000946457	1153	0.003470032	24.20000051	2030
0.179467179	223	0.000804786	5.612574476	2030
0.66171336	371	0.001783594	12.4387843	2030
0.101332398	91	0.001113543	7.76584777	2030

	7000	0.04%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2030	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2030	8000	0.02%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2030	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.03%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2030	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2030	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.02%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2030	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.03%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2030	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2030	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2030	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2030	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	0.47%	0.60%	No Reduct	No Reduct	0.93%	0.93%	2031	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	2.34%	3.02%	No Reduct	No Reduct	4.68%	4.68%	2031	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	1.69%	2.19%	No Reduct	No Reduct	3.41%	3.41%	2031	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.33%	0.43%	No Reduct	No Reduct	0.67%	0.67%	2031	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	0.55%	0.72%	No Reduct	No Reduct	1.12%	1.12%	2031	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.07%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2031	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.04%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2031	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2031	8000	0.02%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2031	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.03%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2031	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2031	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.02%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2031	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.03%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2031	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2031	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2031	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2031	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	0.47%	0.61%	No Reduct	No Reduct	0.93%	0.93%	2032	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	2.34%	3.02%	No Reduct	No Reduct	4.68%	4.68%	2032	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	1.69%	2.19%	No Reduct	No Reduct	3.41%	3.41%	2032	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.33%	0.43%	No Reduct	No Reduct	0.67%	0.67%	2032	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	0.55%	0.72%	No Reduct	No Reduct	1.12%	1.12%	2032	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.07%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2032	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.04%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2032	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2032	8000	0.02%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2032	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.03%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2032	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2032	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.02%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2032	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.03%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2032	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2032	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2032	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2032	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	0.47%	0.60%	No Reduct	No Reduct	0.93%	0.93%	2033	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	2.34%	3.02%	No Reduct	No Reduct	4.67%	4.67%	2033	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	1.69%	2.19%	No Reduct	No Reduct	3.41%	3.41%	2033	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.33%	0.43%	No Reduct	No Reduct	0.67%	0.67%	2033	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	0.55%	0.72%	No Reduct	No Reduct	1.12%	1.12%	2033	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.07%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2033	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.04%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2033	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2033	8000	0.02%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2033	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.03%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2033	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2033	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.02%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2033	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126

4747.390168	5.585171161	70.21595899	64.59868227	2030	007000	Construction	C.1 Well Drilling	1.457728427	0.110666402	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2030	008000	Construction	C.1 Well Drilling	0.814053644	0.061831564	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2030	009000	Construction	C.1 Well Drilling	1.485552366	0.112873334	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2030	010000	Construction	C.1 Well Drilling	1.649310683	0.12536189	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2030	011000	Construction	C.1 Well Drilling	2.113462338	0.161010707	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2030	012000	Construction	C.1 Well Drilling	3.494951415	0.266308461	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2030	013000	Construction	C.1 Well Drilling	3.875651082	0.295359422	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2030	014000	Construction	C.1 Well Drilling	1.291281057	0.098418895	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2030	015000	Construction	C.1 Well Drilling	0.31677011	0.024145871	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2031	001000	Construction	C.1 Well Drilling	0.998457619	0.128450858	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2031	002000	Construction	C.1 Well Drilling	6.496471208	0.845100145	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2031	003000	Construction	C.1 Well Drilling	5.791471257	0.758588719	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2031	004000	Construction	C.1 Well Drilling	1.339845144	0.176320788	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2031	005000	Construction	C.1 Well Drilling	2.966539673	0.392721965	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2031	006000	Construction	C.1 Well Drilling	1.969667601	0.149456774	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2031	007000	Construction	C.1 Well Drilling	1.455574149	0.110502855	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2031	008000	Construction	C.1 Well Drilling	0.812850609	0.061740188	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2031	009000	Construction	C.1 Well Drilling	1.483356968	0.112706526	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2031	010000	Construction	C.1 Well Drilling	1.646873278	0.125176627	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2031	011000	Construction	C.1 Well Drilling	2.178414446	0.165958978	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2031	012000	Construction	C.1 Well Drilling	3.489786463	0.265914902	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2031	013000	Construction	C.1 Well Drilling	3.869923519	0.294922931	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2031	014000	Construction	C.1 Well Drilling	1.28937276	0.098273448	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2031	015000	Construction	C.1 Well Drilling	0.316301977	0.024110187	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2032	001000	Construction	C.1 Well Drilling	1.003026572	0.12903865	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2032	002000	Construction	C.1 Well Drilling	6.49089884	0.844375258	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2032	003000	Construction	C.1 Well Drilling	5.792938786	0.758780941	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2032	004000	Construction	C.1 Well Drilling	1.343867408	0.176850109	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2032	005000	Construction	C.1 Well Drilling	2.962162094	0.392142445	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2032	006000	Construction	C.1 Well Drilling	1.966761058	0.149236228	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2032	007000	Construction	C.1 Well Drilling	1.453426228	0.110339792	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2032	008000	Construction	C.1 Well Drilling	0.811651124	0.061649081	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2032	009000	Construction	C.1 Well Drilling	1.48116805	0.11254021	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2032	010000	Construction	C.1 Well Drilling	1.644443066	0.124991909	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2032	011000	Construction	C.1 Well Drilling	2.175199865	0.16571408	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2032	012000	Construction	C.1 Well Drilling	3.484636753	0.265522504	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2032	013000	Construction	C.1 Well Drilling	3.864212859	0.294487727	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2032	014000	Construction	C.1 Well Drilling	1.287470094	0.098128431	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2032	015000	Construction	C.1 Well Drilling	0.315835225	0.024074609	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2033	001000	Construction	C.1 Well Drilling	1.001794655	0.128880165	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2033	002000	Construction	C.1 Well Drilling	6.482926722	0.843338197	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2033	003000	Construction	C.1 Well Drilling	5.795825326	0.759159031	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2033	004000	Construction	C.1 Well Drilling	1.34221687	0.176632902	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2033	005000	Construction	C.1 Well Drilling	2.966498426	0.392716505	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2033	006000	Construction	C.1 Well Drilling	1.964345483	0.149052936	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2033	007000	Construction	C.1 Well Drilling	1.451641131	0.110204272	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2033	008000	Construction	C.1 Well Drilling	0.843080425	0.064036298	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2033	009000	Construction	C.1 Well Drilling	1.47934888	0.112401989	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2033	010000	Construction	C.1 Well Drilling	1.642423362	0.124838394	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2033	011000	Construction	C.1 Well Drilling	2.172528286	0.16551055	No Reduction	No Reduction

0.07755722	0.071352641	56		2030	0.0408164	0.00309866	No Reduction	No Reduction	0.0021716	0.00199787
0.043362909	0.039893877	25		2030	0.01017567	0.00077289	No Reduction	No Reduction	0.00054204	0.00049867
0.079195752	0.072860089	38		2030	0.02822549	0.00214459	No Reduction	No Reduction	0.00150472	0.00138434
0.088002917	0.080962684	33		2030	0.02721363	0.00206847	No Reduction	No Reduction	0.00145205	0.00133588
0.11511872	0.105909225	31		2030	0.03275867	0.00249567	No Reduction	No Reduction	0.00178434	0.00164159
0.190456025	0.175219545	41		2030	0.0716465	0.00545932	No Reduction	No Reduction	0.00390435	0.003592
0.211275429	0.194373396	37		2030	0.07169955	0.00546415	No Reduction	No Reduction	0.0039086	0.00359591
0.070412498	0.064779499	10		2030	0.00645641	0.00049209	No Reduction	No Reduction	0.00035206	0.0003239
0.017277156	0.015894984	2		2030	0.00031677	2.4146E-05	No Reduction	No Reduction	1.7277E-05	1.5895E-05
0.066437638	0.061122626	330		2031	0.16474551	0.02119439	No Reduction	No Reduction	0.01096221	0.01008523
0.436688367	0.401753349	1616		2031	5.24914874	0.68284092	No Reduction	No Reduction	0.3528442	0.32461671
0.391767492	0.360426059	1155		2031	3.34457465	0.43808499	No Reduction	No Reduction	0.22624573	0.20814605
0.091026506	0.083744381	223		2031	0.14939273	0.01965977	No Reduction	No Reduction	0.01014946	0.0093375
0.202654581	0.186442199	371		2031	0.55029311	0.07284992	No Reduction	No Reduction	0.03759242	0.03458503
0.104670046	0.096296435	91		2031	0.08961988	0.00680028	No Reduction	No Reduction	0.00476249	0.00438149
0.077442604	0.071247194	56		2031	0.04075608	0.00309408	No Reduction	No Reduction	0.00216839	0.00199492
0.043298826	0.039834921	25		2031	0.01016063	0.00077175	No Reduction	No Reduction	0.00054124	0.00049794
0.079078714	0.072752414	38		2031	0.02818378	0.00214142	No Reduction	No Reduction	0.0015025	0.0013823
0.087872864	0.080843035	33		2031	0.02717341	0.00206541	No Reduction	No Reduction	0.0014499	0.00133391
0.118656613	0.109164087	32		2031	0.03485463	0.00265534	No Reduction	No Reduction	0.00189851	0.00174663
0.190174562	0.1749606	41		2031	0.07154062	0.00545126	No Reduction	No Reduction	0.00389858	0.00358669
0.2109632	0.194086144	37		2031	0.07159359	0.00545607	No Reduction	No Reduction	0.00390282	0.00359059
0.07030844	0.064683766	10		2031	0.00644686	0.00049137	No Reduction	No Reduction	0.00035154	0.00032342
0.017251623	0.015871494	2		2031	0.0003163	2.411E-05	No Reduction	No Reduction	1.7252E-05	1.5871E-05
0.066741657	0.061402324	332		2032	0.16650241	0.02142042	No Reduction	No Reduction	0.01107912	0.01019279
0.436313796	0.401408743	1617		2032	5.24789171	0.6826774	No Reduction	No Reduction	0.3527597	0.32453897
0.391866764	0.360517389	1157		2032	3.35121509	0.43895477	No Reduction	No Reduction	0.22669492	0.20855931
0.091299771	0.083995785	224		2032	0.15051315	0.01980721	No Reduction	No Reduction	0.01022557	0.00940753
0.202355534	0.186167075	371		2032	0.54948107	0.07274242	No Reduction	No Reduction	0.03753695	0.03453399
0.104515589	0.096154335	91		2032	0.08948763	0.00679025	No Reduction	No Reduction	0.00475546	0.00437502
0.077328325	0.071142057	56		2032	0.04069593	0.00308951	No Reduction	No Reduction	0.00216519	0.00199198
0.043234932	0.039776138	25		2032	0.01014564	0.00077061	No Reduction	No Reduction	0.00054044	0.0004972
0.078962021	0.072645056	38		2032	0.02814219	0.00213826	No Reduction	No Reduction	0.00150028	0.00138026
0.087743194	0.080723738	33		2032	0.02713331	0.00206237	No Reduction	No Reduction	0.00144776	0.00133194
0.118481517	0.109002999	32		2032	0.0348032	0.00265143	No Reduction	No Reduction	0.0018957	0.00174405
0.189893931	0.174702419	41		2032	0.07143505	0.00544321	No Reduction	No Reduction	0.00389283	0.0035814
0.210651892	0.193799741	37		2032	0.07148794	0.00544802	No Reduction	No Reduction	0.00389706	0.0035853
0.070204689	0.064588315	10		2032	0.00643735	0.00049064	No Reduction	No Reduction	0.00035102	0.00032294
0.017226166	0.015848073	2		2032	0.00031584	2.4075E-05	No Reduction	No Reduction	1.7226E-05	1.5848E-05
0.066659685	0.06132691	332		2033	0.16629791	0.02139411	No Reduction	No Reduction	0.01106551	0.01018027
0.435777916	0.400915733	1617		2033	5.24144625	0.68183893	No Reduction	No Reduction	0.35232645	0.32414037
0.392062025	0.36069703	1159		2033	3.35868078	0.43993266	No Reduction	No Reduction	0.22719994	0.20902393
0.091187636	0.083892622	224		2033	0.15032829	0.01978289	No Reduction	No Reduction	0.01021302	0.00939597
0.202651764	0.186439606	372		2033	0.55176871	0.07304527	No Reduction	No Reduction	0.03769323	0.03467777
0.104387223	0.096036238	91		2033	0.08937772	0.00678191	No Reduction	No Reduction	0.00474962	0.00436965
0.077233351	0.071054681	56		2033	0.04064595	0.00308572	No Reduction	No Reduction	0.00216253	0.00198953
0.044909104	0.041316377	26		2033	0.01096005	0.00083247	No Reduction	No Reduction	0.00058382	0.00053711
0.07886504	0.072555834	38		2033	0.02810763	0.00213564	No Reduction	No Reduction	0.00149844	0.00137856
0.087635428	0.080624594	33		2033	0.02709999	0.00205983	No Reduction	No Reduction	0.00144598	0.00133031
0.118335998	0.108869121	32		2033	0.03476045	0.00264817	No Reduction	No Reduction	0.00189338	0.00174191

0.046086657	56	0.000822976	5.739434796	2030
0.011490601	25	0.000459624	3.205418185	2030
0.031874808	38	0.000838811	5.849866002	2030
0.030734146	33	0.000931338	6.495149434	2030
0.037038672	31	0.001194796	8.332506483	2030
0.081010176	41	0.001975858	13.77963335	2030
0.08107229	37	0.002191143	15.28103105	2030
0.007300562	10	0.000730056	5.091412111	2030
0.000358193	2	0.000179097	1.249019468	2030
0.196902109	330	0.000596673	4.161197901	2031
6.284833854	1616	0.00388913	27.12279164	2031
4.008905363	1155	0.003470914	24.20615238	2031
0.179201957	223	0.000803596	5.604280031	2031
0.660735459	371	0.001780958	12.42040186	2031
0.101182646	91	0.001111897	7.754371147	2031
0.046018549	56	0.00082176	5.730952873	2031
0.01147362	25	0.000458945	3.200681114	2031
0.031827702	38	0.000837571	5.84122088	2031
0.030688726	33	0.000929961	6.485550691	2031
0.039408481	32	0.001231515	8.588585738	2031
0.080890456	41	0.001972938	13.75926936	2031
0.080952479	37	0.002187905	15.25844825	2031
0.007289773	10	0.000728977	5.083887857	2031
0.000357664	2	0.000178832	1.247173626	2031
0.199001942	332	0.000599403	4.180239588	2032
6.283328813	1617	0.003885794	27.09952699	2032
4.016864785	1157	0.003471793	24.21228609	2032
0.180545936	224	0.000806009	5.621104281	2032
0.659760443	371	0.00177833	12.40207367	2032
0.101033336	91	0.001110256	7.742928396	2032
0.045950642	56	0.000820547	5.722495982	2032
0.011456689	25	0.000458268	3.195958023	2032
0.031780735	38	0.000836335	5.832601272	2032
0.03064344	33	0.000928589	6.475980277	2032
0.039350327	32	0.001229698	8.575911976	2032
0.08077109	41	0.001970027	13.73896547	2032
0.080833021	37	0.002184676	15.23593209	2032
0.007279016	10	0.000727902	5.076385809	2032
0.000357136	2	0.000178568	1.245333232	2032
0.198757528	332	0.000598667	4.17510542	2033
6.275611632	1617	0.003881021	27.06624336	2033
4.025813379	1159	0.003473523	24.22435074	2033
0.18032419	224	0.000805019	5.614200443	2033
0.662507205	372	0.001780933	12.42022916	2033
0.100909247	91	0.001108893	7.733418535	2033
0.045894205	56	0.000819539	5.715467616	2033
0.012376336	26	0.000476013	3.319714059	2033
0.031741702	38	0.000835308	5.825437675	2033
0.030605804	33	0.000927449	6.468026481	2033
0.039301997	32	0.001228187	8.565379046	2033

	12000	0.03%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2033	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2033	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2033	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2033	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	0.47%	0.61%	No Reduct	No Reduct	0.93%	0.93%	2034	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	2.34%	3.02%	No Reduct	No Reduct	4.67%	4.67%	2034	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	1.69%	2.19%	No Reduct	No Reduct	3.41%	3.41%	2034	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.33%	0.43%	No Reduct	No Reduct	0.67%	0.67%	2034	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	0.55%	0.72%	No Reduct	No Reduct	1.12%	1.12%	2034	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.07%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2034	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.04%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2034	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2034	8000	0.02%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2034	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.03%	0.05%	No Reduct	No Reduct	0.07%	0.07%	2034	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2034	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.02%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2034	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.03%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2034	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2034	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2034	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2034	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	0.47%	0.60%	No Reduct	No Reduct	0.93%	0.93%	2035	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	2.34%	3.02%	No Reduct	No Reduct	4.68%	4.68%	2035	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	1.69%	2.19%	No Reduct	No Reduct	3.41%	3.41%	2035	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.33%	0.43%	No Reduct	No Reduct	0.66%	0.66%	2035	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	0.55%	0.72%	No Reduct	No Reduct	1.12%	1.12%	2035	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.07%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2035	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.04%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2035	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2035	8000	0.02%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2035	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.03%	0.05%	No Reduct	No Reduct	0.07%	0.07%	2035	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2035	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.02%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2035	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.03%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2035	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.03%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2035	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2035	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2035	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176

16846.89225	19.81478506	251.5875537	231.4605494	2033	012000	Construction	C.1 Well Drilling	3.565243678	0.271664594	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2033	013000	Construction	C.1 Well Drilling	3.859466835	0.294126037	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2033	014000	Construction	C.1 Well Drilling	1.285888824	0.098007909	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2033	015000	Construction	C.1 Well Drilling	0.315447317	0.02404504	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2034	001000	Construction	C.1 Well Drilling	1.003333356	0.129078118	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2034	002000	Construction	C.1 Well Drilling	6.485395983	0.843659413	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2034	003000	Construction	C.1 Well Drilling	5.797282487	0.759349896	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2034	004000	Construction	C.1 Well Drilling	1.34024157	0.176372956	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2034	005000	Construction	C.1 Well Drilling	2.962132718	0.392138556	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2034	006000	Construction	C.1 Well Drilling	1.961454614	0.148833579	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2034	007000	Construction	C.1 Well Drilling	1.449504794	0.110042088	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2034	008000	Construction	C.1 Well Drilling	0.841839689	0.063942058	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2034	009000	Construction	C.1 Well Drilling	1.477171766	0.11223657	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2034	010000	Construction	C.1 Well Drilling	1.640006256	0.124654673	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2034	011000	Construction	C.1 Well Drilling	2.16933104	0.165266973	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2034	012000	Construction	C.1 Well Drilling	3.559996815	0.271264793	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2034	013000	Construction	C.1 Well Drilling	3.853786972	0.293693181	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2034	014000	Construction	C.1 Well Drilling	1.28399642	0.097863674	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2034	015000	Construction	C.1 Well Drilling	0.314983082	0.024009654	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2035	001000	Construction	C.1 Well Drilling	1.00185895	0.128888437	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2035	002000	Construction	C.1 Well Drilling	6.487857988	0.843979686	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2035	003000	Construction	C.1 Well Drilling	5.798735365	0.759540199	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2035	004000	Construction	C.1 Well Drilling	1.338272074	0.176113775	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2035	005000	Construction	C.1 Well Drilling	2.965730862	0.392614892	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2035	006000	Construction	C.1 Well Drilling	1.958572241	0.148614867	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2035	007000	Construction	C.1 Well Drilling	1.447374735	0.10988038	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2035	008000	Construction	C.1 Well Drilling	0.840602599	0.063848094	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2035	009000	Construction	C.1 Well Drilling	1.475001051	0.112071637	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2035	010000	Construction	C.1 Well Drilling	1.637596255	0.124471492	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2035	011000	Construction	C.1 Well Drilling	2.166143191	0.165024112	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2035	012000	Construction	C.1 Well Drilling	3.554765372	0.270866167	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2035	013000	Construction	C.1 Well Drilling	3.848123803	0.293261596	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2035	014000	Construction	C.1 Well Drilling	1.282109577	0.097719863	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2035	015000	Construction	C.1 Well Drilling	0.314520212	0.023974372	No Reduction	No Reduction

0.194286574	0.178743651	42	2033	0.07487012	0.00570496	No Reduction	No Reduction	0.00408002	0.00375362
0.210393169	0.193561716	37	2033	0.07140014	0.00544133	No Reduction	No Reduction	0.00389227	0.00358089
0.070118464	0.064508988	10	2033	0.00642944	0.00049004	No Reduction	No Reduction	0.00035059	0.00032254
0.017205009	0.015828608	2	2033	0.00031545	2.4045E-05	No Reduction	No Reduction	1.7205E-05	1.5829E-05
0.066762071	0.061421105	333	2034	0.167055	0.02149151	No Reduction	No Reduction	0.01111588	0.01022661
0.435943898	0.401068437	1620	2034	5.25317075	0.68336412	No Reduction	No Reduction	0.35311456	0.32486543
0.392160596	0.360787715	1161	2034	3.36532248	0.44080261	No Reduction	No Reduction	0.22764923	0.20943727
0.091053438	0.083769159	224	2034	0.15010706	0.01975377	No Reduction	No Reduction	0.01019799	0.00938215
0.202353527	0.186165229	372	2034	0.55095669	0.07293777	No Reduction	No Reduction	0.03763776	0.03462673
0.1042336	0.095894904	91	2034	0.08924618	0.00677193	No Reduction	No Reduction	0.00474263	0.00436322
0.077119689	0.070950112	56	2034	0.04058613	0.00308118	No Reduction	No Reduction	0.00215935	0.0019866
0.044843013	0.041255573	26	2034	0.01094392	0.00083125	No Reduction	No Reduction	0.00058296	0.00053632
0.078748977	0.072449056	38	2034	0.02806626	0.00213249	No Reduction	No Reduction	0.00149623	0.00137653
0.087506457	0.080505941	33	2034	0.0270601	0.0020568	No Reduction	No Reduction	0.00144386	0.00132835
0.118161846	0.108708902	32	2034	0.0347093	0.00264427	No Reduction	No Reduction	0.00189059	0.00173934
0.194000648	0.178480599	42	2034	0.07475993	0.00569656	No Reduction	No Reduction	0.00407401	0.00374809
0.21008354	0.193276857	37	2034	0.07129506	0.00543332	No Reduction	No Reduction	0.00388655	0.00357562
0.070015273	0.064414052	10	2034	0.00641998	0.00048932	No Reduction	No Reduction	0.00035008	0.00032207
0.017179689	0.015805314	2	2034	0.00031498	2.401E-05	No Reduction	No Reduction	1.718E-05	1.5805E-05
0.066663964	0.061330846	333	2035	0.16680952	0.02145992	No Reduction	No Reduction	0.01109955	0.01021159
0.436109392	0.401220692	1623	2035	5.26489676	0.68488951	No Reduction	No Reduction	0.35390277	0.32559059
0.392258877	0.360878133	1163	2035	3.37196461	0.44167263	No Reduction	No Reduction	0.22809854	0.20985063
0.090919634	0.08364606	224	2035	0.14988647	0.01972474	No Reduction	No Reduction	0.010183	0.00936836
0.202599329	0.186391366	373	2035	0.55310881	0.07322268	No Reduction	No Reduction	0.03778477	0.03476199
0.104080428	0.095753986	91	2035	0.08911504	0.00676198	No Reduction	No Reduction	0.00473566	0.00435681
0.077006361	0.07084585	56	2035	0.04052649	0.00307665	No Reduction	No Reduction	0.00215618	0.00198368
0.044777116	0.041194947	26	2035	0.01092783	0.00083003	No Reduction	No Reduction	0.0005821	0.00053553
0.078633255	0.072342591	38	2035	0.02802502	0.00212936	No Reduction	No Reduction	0.00149403	0.00137451
0.087377866	0.080387637	33	2035	0.02702034	0.00205378	No Reduction	No Reduction	0.00144173	0.0013264
0.117988207	0.108549153	32	2035	0.03465829	0.00264039	No Reduction	No Reduction	0.00188781	0.00173679
0.193715563	0.17821832	42	2035	0.07465007	0.00568819	No Reduction	No Reduction	0.00406803	0.00374258
0.20977482	0.192992835	37	2035	0.07119029	0.00542534	No Reduction	No Reduction	0.00388083	0.00357037
0.069912385	0.064319395	10	2035	0.00641055	0.0004886	No Reduction	No Reduction	0.00034956	0.0003216
0.017154443	0.015782088	2	2035	0.00031452	2.3974E-05	No Reduction	No Reduction	1.7154E-05	1.5782E-05

0.084655092	42	0.002015597	14.05677643	2033
0.080733742	37	0.002181993	15.21721933	2033
0.007270076	10	0.000727008	5.070150995	2033
0.000356697	2	0.000178349	1.243803714	2033
0.199662395	333	0.000599587	4.181518153	2034
6.289649429	1620	0.0038825	27.07655254	2034
4.033774324	1161	0.003474396	24.23044112	2034
0.180058812	224	0.000803834	5.605938191	2034
0.661532213	372	0.001778312	12.40195068	2034
0.100760742	91	0.001107261	7.722037493	2034
0.045826664	56	0.000818333	5.707056332	2034
0.012358122	26	0.000475312	3.314828535	2034
0.031694989	38	0.000834079	5.816864551	2034
0.030560762	33	0.000926084	6.458507679	2034
0.039244158	32	0.00122638	8.552773632	2034
0.084530507	42	0.002012631	14.03608949	2034
0.080614928	37	0.002178782	15.1948246	2034
0.007259377	10	0.000725938	5.062689404	2034
0.000356172	2	0.000178086	1.241973245	2034
0.19936899	333	0.000598706	4.17537338	2035
6.303689044	1623	0.003883974	27.08683142	2035
4.041735778	1163	0.003475267	24.2365136	2035
0.179794214	224	0.000802653	5.597700222	2035
0.664116258	373	0.001780473	12.4170155	2035
0.100612673	91	0.001105634	7.710689899	2035
0.045759321	56	0.000817131	5.698669768	2035
0.012339962	26	0.000474614	3.309957369	2035
0.031648413	38	0.000832853	5.808316623	2035
0.030515853	33	0.000924723	6.449016852	2035
0.039186488	32	0.001224578	8.540205265	2035
0.084406289	42	0.002009674	14.01546335	2035
0.080496464	37	0.00217558	15.17249569	2035
0.007248709	10	0.000724871	5.055249743	2035
0.000355649	2	0.000177825	1.240148156	2035

Final % Reduction

		NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
	1000	0.76%	0.67%	No Reduct	No Reduct	1.03%	1.03%
	2000	3.60%	3.16%	No Reduct	No Reduct	4.90%	4.90%
	3000	2.40%	2.11%	No Reduct	No Reduct	3.28%	3.28%
	4000	0.45%	0.40%	No Reduct	No Reduct	0.62%	0.62%
	5000	0.79%	0.70%	No Reduct	No Reduct	1.09%	1.09%
	6000	0.10%	0.10%	No Reduct	No Reduct	0.16%	0.16%
	7000	0.06%	0.06%	No Reduct	No Reduct	0.10%	0.10%
2012	8000	0.03%	0.03%	No Reduct	No Reduct	0.05%	0.05%
	9000	0.05%	0.05%	No Reduct	No Reduct	0.08%	0.08%
	10000	0.03%	0.03%	No Reduct	No Reduct	0.05%	0.05%
	11000	0.03%	0.03%	No Reduct	No Reduct	0.06%	0.06%
	12000	0.03%	0.04%	No Reduct	No Reduct	0.06%	0.06%
	13000	0.03%	0.03%	No Reduct	No Reduct	0.04%	0.04%
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	1000	0.69%	0.60%	No Reduct	No Reduct	0.93%	0.93%
	2000	3.43%	3.01%	No Reduct	No Reduct	4.67%	4.67%
	3000	2.49%	2.19%	No Reduct	No Reduct	3.40%	3.40%
	4000	0.48%	0.43%	No Reduct	No Reduct	0.67%	0.67%
	5000	0.81%	0.72%	No Reduct	No Reduct	1.13%	1.13%
	6000	0.11%	0.11%	No Reduct	No Reduct	0.18%	0.18%
	7000	0.07%	0.07%	No Reduct	No Reduct	0.11%	0.11%
2015	8000	0.03%	0.03%	No Reduct	No Reduct	0.05%	0.05%
	9000	0.04%	0.05%	No Reduct	No Reduct	0.08%	0.08%
	10000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%
	11000	0.03%	0.03%	No Reduct	No Reduct	0.06%	0.06%
	12000	0.04%	0.05%	No Reduct	No Reduct	0.08%	0.08%
	13000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	1000	0.69%	0.60%	No Reduct	No Reduct	0.93%	0.93%
	2000	3.43%	3.02%	No Reduct	No Reduct	4.67%	4.67%
	3000	2.49%	2.19%	No Reduct	No Reduct	3.41%	3.41%
	4000	0.48%	0.43%	No Reduct	No Reduct	0.67%	0.67%
	5000	0.81%	0.72%	No Reduct	No Reduct	1.12%	1.12%
	6000	0.11%	0.11%	No Reduct	No Reduct	0.18%	0.18%
	7000	0.07%	0.07%	No Reduct	No Reduct	0.11%	0.11%
2016	8000	0.03%	0.03%	No Reduct	No Reduct	0.05%	0.05%
	9000	0.04%	0.05%	No Reduct	No Reduct	0.07%	0.07%
	10000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%
	11000	0.03%	0.03%	No Reduct	No Reduct	0.06%	0.06%
	12000	0.04%	0.05%	No Reduct	No Reduct	0.08%	0.08%
	13000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	1000	0.69%	0.60%	No Reduct	No Reduct	0.93%	0.93%

Drilling Emissions in Lbs/Well Drilled

CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB
2012	001000	Construction	C.1 Well Drilling	889.3949598	52.74499254
2012	002000	Construction	C.1 Well Drilling	1165.785878	68.6565032
2012	003000	Construction	C.1 Well Drilling	1442.176795	84.56801385
2012	004000	Construction	C.1 Well Drilling	1718.567713	100.4795245
2012	005000	Construction	C.1 Well Drilling	2271.349549	132.3025458
2012	006000	Construction	C.1 Well Drilling	5143.498427	247.3684469
2012	007000	Construction	C.1 Well Drilling	6160.153671	295.8400441
2012	008000	Construction	C.1 Well Drilling	7685.136537	368.54744
2012	009000	Construction	C.1 Well Drilling	9210.119402	441.2548359
2012	010000	Construction	C.1 Well Drilling	11751.75751	562.433829
2012	011000	Construction	C.1 Well Drilling	17376.84905	812.3437041
2012	012000	Construction	C.1 Well Drilling	21706.00576	1014.177015
2012	013000	Construction	C.1 Well Drilling	26653.61343	1244.843656
2012	014000	Construction	C.1 Well Drilling	32838.12301	1533.176957
2012	015000	Construction	C.1 Well Drilling	40259.53452	1879.176919
2015	001000	Construction	C.1 Well Drilling	802.5835351	48.79234205
2015	002000	Construction	C.1 Well Drilling	1051.798768	63.53247208
2015	003000	Construction	C.1 Well Drilling	1301.014	78.27260212
2015	004000	Construction	C.1 Well Drilling	1550.229233	93.01273216
2015	005000	Construction	C.1 Well Drilling	2048.659698	122.4929922
2015	006000	Construction	C.1 Well Drilling	5123.472228	266.380754
2015	007000	Construction	C.1 Well Drilling	6137.179107	318.7425144
2015	008000	Construction	C.1 Well Drilling	7657.739424	397.285155
2015	009000	Construction	C.1 Well Drilling	9178.299741	475.8277956
2015	010000	Construction	C.1 Well Drilling	11712.56694	606.7321966
2015	011000	Construction	C.1 Well Drilling	17402.30073	885.5183604
2015	012000	Construction	C.1 Well Drilling	21739.14145	1105.754963
2015	013000	Construction	C.1 Well Drilling	26695.53085	1357.453936
2015	014000	Construction	C.1 Well Drilling	32891.01759	1672.077654
2015	015000	Construction	C.1 Well Drilling	40325.60169	2049.626115
2016	001000	Construction	C.1 Well Drilling	763.3389208	46.54759315
2016	002000	Construction	C.1 Well Drilling	1000.28455	60.61695792
2016	003000	Construction	C.1 Well Drilling	1237.23018	74.68632269
2016	004000	Construction	C.1 Well Drilling	1474.175809	88.75568746
2016	005000	Construction	C.1 Well Drilling	1948.067068	116.894417
2016	006000	Construction	C.1 Well Drilling	5042.783384	260.999804
2016	007000	Construction	C.1 Well Drilling	6040.839654	312.331865
2016	008000	Construction	C.1 Well Drilling	7537.924059	389.3299566
2016	009000	Construction	C.1 Well Drilling	9035.008464	466.3280481
2016	010000	Construction	C.1 Well Drilling	11530.14914	594.6582007
2016	011000	Construction	C.1 Well Drilling	17169.76603	870.1619411
2016	012000	Construction	C.1 Well Drilling	21449.08203	1086.617552
2016	013000	Construction	C.1 Well Drilling	26339.72888	1333.995392
2016	014000	Construction	C.1 Well Drilling	32453.03745	1643.217693
2016	015000	Construction	C.1 Well Drilling	39789.00774	2014.284454
2017	001000	Construction	C.1 Well Drilling	719.1407087	43.99990232

Amount of Drilling Emissions Reduced in Changing 121<hp<175 hp Engines to Tier 4f in Lbs/Well Drilled

COLB	SOXLB	PM10LB	PM25LB	CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB	COLB	SOXLB
650.4930445	0.766405804	40.20745903	36.99086231	2012	001000	Construction	C.1 Well Drilling	6.797126025	0.351588906	No Reduction	No Reduction
855.7315035	1.008083983	52.13380846	47.96310378	2012	002000	Construction	C.1 Well Drilling	42.02380158	2.172600162	No Reduction	No Reduction
1060.969963	1.249762162	64.06015789	58.93534526	2012	003000	Construction	C.1 Well Drilling	34.55328117	1.785803915	No Reduction	No Reduction
1266.208422	1.491440341	75.98650732	69.90758673	2012	004000	Construction	C.1 Well Drilling	7.758379776	0.400885236	No Reduction	No Reduction
1676.68534	1.974796699	99.83920617	91.85206968	2012	005000	Construction	C.1 Well Drilling	17.83713917	0.921409365	No Reduction	No Reduction
3961.954751	4.661204512	182.7774876	168.1552886	2012	006000	Construction	C.1 Well Drilling	4.953040124	0.242942627	No Reduction	No Reduction
4747.390168	5.585171161	218.447303	200.9715188	2012	007000	Construction	C.1 Well Drilling	3.789528712	0.185807842	No Reduction	No Reduction
5925.543293	6.971121135	271.9520261	250.195864	2012	008000	Construction	C.1 Well Drilling	2.475703485	0.121345402	No Reduction	No Reduction
7103.696418	8.357071108	325.4567491	299.4202092	2012	009000	Construction	C.1 Well Drilling	4.26204469	0.208852304	No Reduction	No Reduction
9067.284959	10.66698773	414.6312876	381.4607846	2012	010000	Construction	C.1 Well Drilling	3.465184774	0.169759732	No Reduction	No Reduction
13484.46933	15.8601023	592.2478825	544.8680519	2012	011000	Construction	C.1 Well Drilling	5.483849461	0.26714561	No Reduction	No Reduction
16846.89225	19.81478506	739.2027504	680.0665304	2012	012000	Construction	C.1 Well Drilling	7.402739365	0.360574012	No Reduction	No Reduction
20689.6613	24.3344225	907.1511709	834.5790772	2012	013000	Construction	C.1 Well Drilling	6.736574391	0.328092203	No Reduction	No Reduction
25493.12261	29.9839693	1117.086697	1027.719761	2012	014000	Construction	C.1 Well Drilling	2.490871139	0.121302769	No Reduction	No Reduction
31257.27618	36.76342545	1369.009327	1259.488581	2012	015000	Construction	C.1 Well Drilling	0.509124944	0.024792147	No Reduction	No Reduction
650.4930445	0.766405804	36.05112075	33.16703109	2015	001000	Construction	C.1 Well Drilling	5.555545655	0.294585529	No Reduction	No Reduction
855.7315035	1.008083983	46.72603737	42.98795438	2015	002000	Construction	C.1 Well Drilling	36.11964618	1.915261876	No Reduction	No Reduction
1060.969963	1.249762162	57.40095398	52.80887767	2015	003000	Construction	C.1 Well Drilling	32.33568352	1.714615307	No Reduction	No Reduction
1266.208422	1.491440341	68.0758706	62.62980095	2015	004000	Construction	C.1 Well Drilling	7.499126638	0.397644767	No Reduction	No Reduction
1676.68534	1.974796699	89.42570384	82.27164753	2015	005000	Construction	C.1 Well Drilling	16.64943706	0.882844404	No Reduction	No Reduction
3961.954751	4.661204512	183.9929422	169.2735068	2015	006000	Construction	C.1 Well Drilling	5.442791162	0.288606637	No Reduction	No Reduction
4747.390168	5.585171161	219.9862565	202.387356	2015	007000	Construction	C.1 Well Drilling	4.036227159	0.214022889	No Reduction	No Reduction
5925.543293	6.971121135	273.9762279	252.0581296	2015	008000	Construction	C.1 Well Drilling	2.293310877	0.121603918	No Reduction	No Reduction
7103.696418	8.357071108	327.9661993	301.7289033	2015	009000	Construction	C.1 Well Drilling	4.072920126	0.215968553	No Reduction	No Reduction
9067.284959	10.66698773	417.9494849	384.5135261	2015	010000	Construction	C.1 Well Drilling	4.641661232	0.246126325	No Reduction	No Reduction
13484.46933	15.8601023	602.454831	554.2584445	2015	011000	Construction	C.1 Well Drilling	5.82433014	0.308837915	No Reduction	No Reduction
16846.89225	19.81478506	752.061946	691.8969903	2015	012000	Construction	C.1 Well Drilling	9.628932888	0.510578804	No Reduction	No Reduction
20689.6613	24.3344225	923.041506	849.1981855	2015	013000	Construction	C.1 Well Drilling	10.38716943	0.550784665	No Reduction	No Reduction
25493.12261	29.9839693	1136.765956	1045.82468	2015	014000	Construction	C.1 Well Drilling	3.556330616	0.188576146	No Reduction	No Reduction
31257.27618	36.76342545	1393.235296	1281.776472	2015	015000	Construction	C.1 Well Drilling	0.87230751	0.046254526	No Reduction	No Reduction
650.4930445	0.766405804	33.77182493	31.07007894	2016	001000	Construction	C.1 Well Drilling	5.278567562	0.28074962	No Reduction	No Reduction
855.7315035	1.008083983	43.76261426	40.26160512	2016	002000	Construction	C.1 Well Drilling	34.3595707	1.82784719	No Reduction	No Reduction
1060.969963	1.249762162	53.7534036	49.45313131	2016	003000	Construction	C.1 Well Drilling	30.77387091	1.63730485	No Reduction	No Reduction
1266.208422	1.491440341	63.74419293	58.64465749	2016	004000	Construction	C.1 Well Drilling	7.12403835	0.379062887	No Reduction	No Reduction
1676.68534	1.974796699	83.72577159	77.02770987	2016	005000	Construction	C.1 Well Drilling	15.81597018	0.841644903	No Reduction	No Reduction
3961.954751	4.661204512	178.7846588	164.4818861	2016	006000	Construction	C.1 Well Drilling	5.351675853	0.282491806	No Reduction	No Reduction
4747.390168	5.585171161	213.7816992	196.6791633	2016	007000	Construction	C.1 Well Drilling	3.968864881	0.20950709	No Reduction	No Reduction
5925.543293	6.971121135	266.2772598	244.975079	2016	008000	Construction	C.1 Well Drilling	2.255154537	0.119048864	No Reduction	No Reduction
7103.696418	8.357071108	318.7728203	293.2709947	2016	009000	Construction	C.1 Well Drilling	4.005294216	0.211443554	No Reduction	No Reduction
9067.284959	10.66698773	406.2654213	373.7641876	2016	010000	Construction	C.1 Well Drilling	4.564765612	0.24098535	No Reduction	No Reduction
13484.46933	15.8601023	587.6133242	540.6042583	2016	011000	Construction	C.1 Well Drilling	5.740713787	0.303176356	No Reduction	No Reduction
16846.89225	19.81478506	733.5667911	674.8814478	2016	012000	Construction	C.1 Well Drilling	9.49088442	0.501236633	No Reduction	No Reduction
20689.6613	24.3344225	900.3707532	828.3410929	2016	013000	Construction	C.1 Well Drilling	10.23840153	0.540721043	No Reduction	No Reduction
25493.12261	29.9839693	1108.875706	1020.165649	2016	014000	Construction	C.1 Well Drilling	3.505438665	0.185134612	No Reduction	No Reduction
31257.27618	36.76342545	1359.081649	1250.355117	2016	015000	Construction	C.1 Well Drilling	0.859832917	0.04541116	No Reduction	No Reduction
650.4930445	0.766405804	31.39998534	28.88798652	2017	001000	Construction	C.1 Well Drilling	4.965427931	0.264982865	No Reduction	No Reduction

		Wells Drilled Each Year	Amount of Drilling Emissions Reduced in Changing 121<hp<175 Engines to Tier 4f in tons/year						
PM10LB	PM25LB		CALYEAR	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB
0.413447911	0.380372073	305	2012	1.03656172	0.05361731	No Reduction	No Reduction	0.06305081	0.05800674
2.556711602	2.352174972	1414	2012	29.7108277	1.53602831	No Reduction	No Reduction	1.8075951	1.6629877
2.102488907	1.934289616	930	2012	16.0672757	0.83039882	No Reduction	No Reduction	0.97765734	0.89944467
0.472123531	0.434353629	174	2012	0.67497904	0.03487702	No Reduction	No Reduction	0.04107475	0.03778877
1.085580088	0.998733594	300	2012	2.67557088	0.1382114	No Reduction	No Reduction	0.16283701	0.14981004
0.296217859	0.27252041	69	2012	0.17087988	0.00838152	No Reduction	No Reduction	0.01021952	0.00940195
0.226582123	0.208455547	44	2012	0.08336963	0.00408777	No Reduction	No Reduction	0.00498481	0.00458602
0.147992293	0.136152912	23	2012	0.02847059	0.00139547	No Reduction	No Reduction	0.00170191	0.00156576
0.254736532	0.234357599	33.00	2012	0.07032374	0.00344606	No Reduction	No Reduction	0.00420315	0.0038669
0.207074201	0.190508265	21	2012	0.03638444	0.00178248	No Reduction	No Reduction	0.00217428	0.00200034
0.326296369	0.300192668	25	2012	0.06854812	0.00333932	No Reduction	No Reduction	0.0040787	0.00375241
0.440430052	0.405195653	27	2012	0.09993698	0.00486775	No Reduction	No Reduction	0.00594581	0.00547014
0.400767101	0.368705734	20	2012	0.06736574	0.00328092	No Reduction	No Reduction	0.00400767	0.00368706
0.148176085	0.136322001	6	2012	0.00747261	0.00036391	No Reduction	No Reduction	0.00044453	0.00040897
0.030285202	0.027862386	1	2012	0.00025456	1.2396E-05	No Reduction	No Reduction	1.5143E-05	1.3931E-05
0.335767581	0.30890617	323	2015	0.89722062	0.04757556	No Reduction	No Reduction	0.05422646	0.04988835
2.183008991	2.008368527	1575	2015	28.4442214	1.50826873	No Reduction	No Reduction	1.71911958	1.58159021
1.954312921	1.797967722	1128	2015	18.2373255	0.96704303	No Reduction	No Reduction	1.10223249	1.0140538
0.453234277	0.416975516	218	2015	0.8174048	0.04334328	No Reduction	No Reduction	0.04940254	0.04545033
1.00626327	0.925762128	363	2015	3.02187283	0.16023626	No Reduction	No Reduction	0.18263678	0.16802583
0.328952923	0.302636666	89	2015	0.24220421	0.012843	No Reduction	No Reduction	0.01463841	0.01346733
0.243942601	0.224427187	55	2015	0.11099625	0.00588563	No Reduction	No Reduction	0.00670842	0.00617175
0.138603752	0.127515454	25	2015	0.02866639	0.00152005	No Reduction	No Reduction	0.00173255	0.00159394
0.246160267	0.226467436	37.00	2015	0.07534902	0.00399542	No Reduction	No Reduction	0.00455396	0.00418965
0.280533995	0.258091276	33.00	2015	0.07658741	0.00406108	No Reduction	No Reduction	0.00462881	0.00425851
0.352012459	0.323851471	31	2015	0.09027712	0.00478699	No Reduction	No Reduction	0.00545619	0.0050197
0.581956082	0.535399602	41	2015	0.19739312	0.01046687	No Reduction	No Reduction	0.0119301	0.01097569
0.627782589	0.577559983	36	2015	0.18696905	0.00991412	No Reduction	No Reduction	0.01130009	0.01039608
0.214938483	0.197743407	10	2015	0.01778165	0.00094288	No Reduction	No Reduction	0.00107469	0.00098872
0.05272076	0.0485031	2	2015	0.00087231	4.6255E-05	No Reduction	No Reduction	5.2721E-05	4.8503E-05
0.314222098	0.289084326	323	2016	0.85248866	0.04534106	No Reduction	No Reduction	0.05074687	0.04668712
2.045093501	1.881486259	1577	2016	27.0925215	1.44125751	No Reduction	No Reduction	1.61255623	1.48355192
1.831523555	1.685001516	1130	2016	17.3872371	0.92507724	No Reduction	No Reduction	1.03481081	0.95202586
0.423967312	0.390049909	218	2016	0.77652018	0.04131785	No Reduction	No Reduction	0.04621244	0.04251544
0.941175504	0.865881388	363	2016	2.87059859	0.15275855	No Reduction	No Reduction	0.17082335	0.15715747
0.319319204	0.293773645	89	2016	0.23814958	0.01257089	No Reduction	No Reduction	0.0142097	0.01307293
0.236823518	0.217877631	55	2016	0.10914378	0.00576144	No Reduction	No Reduction	0.00651265	0.00599163
0.134573141	0.123807291	25	2016	0.02818943	0.00148811	No Reduction	No Reduction	0.00168216	0.00154759
0.239018962	0.219897435	37	2016	0.07409794	0.00391171	No Reduction	No Reduction	0.00442185	0.0040681
0.272416723	0.250623386	33	2016	0.07531863	0.00397626	No Reduction	No Reduction	0.00449488	0.00413529
0.342994678	0.315555112	31	2016	0.08898106	0.00469923	No Reduction	No Reduction	0.00531642	0.0048911
0.567072338	0.521706557	41	2016	0.19456313	0.01027535	No Reduction	No Reduction	0.01162498	0.01069498
0.611746677	0.562806944	36	2016	0.18429123	0.00973298	No Reduction	No Reduction	0.01101144	0.01013052
0.209453775	0.192697476	10	2016	0.01752719	0.00092567	No Reduction	No Reduction	0.00104727	0.00096349
0.051376551	0.047266427	2	2016	0.00085983	4.5411E-05	No Reduction	No Reduction	5.1377E-05	4.7266E-05
0.291712991	0.268375948	323	2017	0.80191661	0.04279473	No Reduction	No Reduction	0.04711165	0.04334272

VERA Emissions (tons/year)	Wells Drilled Each Year	VERA Emissions (tons/year-well)	VERA Fee Reduction	Year
1.153229834	305			
33.05445114	1414			
17.87533191	930			
0.750930803	174			
2.976619293	300			
0.189480921	69			
0.092442211	44			
0.031567974	23			
0.077972953	33.00			
0.040341196	21			
0.075966143	25			
0.110750536	27			
0.074654337	20			
0.00828105	6			
0.000282101	1			
0.999022651	323	0.003092949	21.57022899	2015
31.67160967	1575	0.020108959	140.2398767	2015
20.30660103	1128	0.018002306	125.5480812	2015
0.910150619	218	0.004175003	29.11646981	2015
3.364745869	363	0.009269272	64.64390547	2015
0.269685607	89	0.003030175	21.13244297	2015
0.123590298	55	0.002247096	15.67124977	2015
0.031918982	25	0.001276759	8.904119177	2015
0.083898405	37.00	0.002267524	15.81371567	2015
0.085277306	33.00	0.002584161	18.02193725	2015
0.100520298	31	0.00324259	22.61382445	2015
0.219790089	41	0.005360734	37.38575813	2015
0.20818326	36	0.005782868	40.3297238	2015
0.019799226	10	0.001979923	13.80798037	2015
0.000971283	2	0.000485641	3.386863111	2015
0.948576594	323	0.00293677	20.48103147	2016
30.14633523	1577	0.019116256	133.3167672	2016
19.34712511	1130	0.01712135	119.4042925	2016
0.864050472	218	0.003963534	27.64168803	2016
3.194180492	363	0.008799395	61.36698279	2016
0.264930165	89	0.002976743	20.75980869	2016
0.121417876	55	0.002207598	15.39578667	2016
0.031359707	25	0.001254388	8.7481038	2016
0.0824315	37	0.002227878	15.53722372	2016
0.083789767	33	0.002539084	17.70757072	2016
0.098996715	31	0.003193442	22.27106737	2016
0.216463465	41	0.005279597	36.81990735	2016
0.205035647	36	0.005695435	39.71996108	2016
0.019500135	10	0.001950014	13.59939433	2016
0.000956621	2	0.00047831	3.33573613	2016
0.891822992	323	0.002761062	19.25564564	2017

Amount of Construction - Well Drilling Emissions Reduced in C

Year	NOX	ROG	CO	SOX
2015	52.45	2.78	0.00	0.00
2016	49.99	2.66	0.00	0.00
2017	47.26	2.52	0.00	0.00
2018	40.76	2.19	0.00	0.00
2019	37.59	2.04	0.00	0.00
2020	31.36	1.84	0.00	0.00
2021	30.17	1.79	0.00	0.00
2022	22.88	1.50	0.00	0.00
2023	21.09	1.44	0.00	0.00
2024	18.84	1.38	0.00	0.00
2025	17.58	1.34	0.00	0.00
2026	16.71	1.32	0.00	0.00
2027	16.00	1.31	0.00	0.00
2028	14.91	1.29	0.00	0.00
2029	14.41	1.26	0.00	0.00
2030	14.44	1.26	0.00	0.00
2031	14.46	1.26	0.00	0.00
2032	14.47	1.26	0.00	0.00
2033	14.48	1.27	0.00	0.00
2034	14.51	1.27	0.00	0.00
2035	14.54	1.27	0.00	0.00

hanging 120 < hp < 175 Engines to Tier 4f		
PM10	PM25	VERA Fee Reduction Per Well
3.17	2.92	$578.19
2.98	2.74	$556.11
2.78	2.56	$533.15
2.30	2.12	$478.09
2.08	1.91	$425.20
1.76	1.62	$377.43
1.64	1.51	$366.46
1.24	1.14	$311.24
1.10	1.01	$296.46
0.97	0.90	$280.28
0.88	0.81	$270.41
0.80	0.74	$223.06
0.74	0.68	$217.37
0.68	0.63	$209.34
0.66	0.60	$205.57
0.66	0.60	$205.45
0.66	0.61	$205.65
0.66	0.61	$205.50
0.66	0.61	$206.01
0.66	0.61	$205.85
0.66	0.61	$205.72
	Average:	**$312.50**

	2000	3.44%	3.02%	No Reduct	No Reduct	4.68%	4.68%	2017	002000	Construction	C.1 Well Drilling	942.654357	57.33159172
	3000	2.49%	2.19%	No Reduct	No Reduct	3.41%	3.41%	2017	003000	Construction	C.1 Well Drilling	1166.168005	70.66328112
	4000	0.48%	0.43%	No Reduct	No Reduct	0.67%	0.67%	2017	004000	Construction	C.1 Well Drilling	1389.681653	83.99497053
	5000	0.81%	0.72%	No Reduct	No Reduct	1.12%	1.12%	2017	005000	Construction	C.1 Well Drilling	1836.70895	110.6583493
	6000	0.11%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2017	006000	Construction	C.1 Well Drilling	4995.849988	257.5406623
	7000	0.07%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2017	007000	Construction	C.1 Well Drilling	5985.300033	308.2478279
2017	8000	0.03%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2017	008000	Construction	C.1 Well Drilling	7469.4751	384.3085764
	9000	0.04%	0.05%	No Reduct	No Reduct	0.07%	0.07%	2017	009000	Construction	C.1 Well Drilling	8953.650168	460.3693248
	10000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2017	010000	Construction	C.1 Well Drilling	11427.27528	587.1372389
	11000	0.03%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2017	011000	Construction	C.1 Well Drilling	17043.46992	860.972981
	12000	0.04%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2017	012000	Construction	C.1 Well Drilling	21292.18745	1075.215018
	13000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2017	013000	Construction	C.1 Well Drilling	26147.86464	1320.06306
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2017	014000	Construction	C.1 Well Drilling	32217.46112	1626.123112
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2017	015000	Construction	C.1 Well Drilling	39500.9769	1993.395175
	1000	0.69%	0.61%	No Reduct	No Reduct	0.93%	0.93%	2018	001000	Construction	C.1 Well Drilling	618.2650511	38.07086535
	2000	3.44%	3.02%	No Reduct	No Reduct	4.67%	4.67%	2018	002000	Construction	C.1 Well Drilling	810.1939548	49.62555854
	3000	2.49%	2.19%	No Reduct	No Reduct	3.41%	3.41%	2018	003000	Construction	C.1 Well Drilling	1002.122858	61.18025173
	4000	0.48%	0.43%	No Reduct	No Reduct	0.67%	0.67%	2018	004000	Construction	C.1 Well Drilling	1194.051762	72.73494492
	5000	0.81%	0.72%	No Reduct	No Reduct	1.12%	1.12%	2018	005000	Construction	C.1 Well Drilling	1577.909569	95.84433131
	6000	0.11%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2018	006000	Construction	C.1 Well Drilling	4823.38249	244.8783498
	7000	0.07%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2018	007000	Construction	C.1 Well Drilling	5779.56332	293.1726627
2018	8000	0.03%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2018	008000	Construction	C.1 Well Drilling	7213.834565	365.6141319
	9000	0.04%	0.05%	No Reduct	No Reduct	0.07%	0.07%	2018	009000	Construction	C.1 Well Drilling	8648.10581	438.0556011
	10000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2018	010000	Construction	C.1 Well Drilling	11038.55788	558.7913832
	11000	0.03%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2018	011000	Construction	C.1 Well Drilling	16557.08617	825.6487898
	12000	0.04%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2018	012000	Construction	C.1 Well Drilling	20685.73813	1031.209291
	13000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2018	013000	Construction	C.1 Well Drilling	25404.19751	1266.135578
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2018	014000	Construction	C.1 Well Drilling	31302.27173	1559.793436
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2018	015000	Construction	C.1 Well Drilling	38379.9608	1912.182867
	1000	0.69%	0.60%	No Reduct	No Reduct	0.93%	0.93%	2019	001000	Construction	C.1 Well Drilling	569.7563561	35.5442175
	2000	3.44%	3.02%	No Reduct	No Reduct	4.68%	4.68%	2019	002000	Construction	C.1 Well Drilling	746.8582133	46.37616294
	3000	2.48%	2.19%	No Reduct	No Reduct	3.40%	3.40%	2019	003000	Construction	C.1 Well Drilling	923.9600705	57.20810837
	4000	0.48%	0.43%	No Reduct	No Reduct	0.67%	0.67%	2019	004000	Construction	C.1 Well Drilling	1101.061928	68.04005381
	5000	0.81%	0.72%	No Reduct	No Reduct	1.13%	1.13%	2019	005000	Construction	C.1 Well Drilling	1455.265642	89.70394468
	6000	0.11%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2019	006000	Construction	C.1 Well Drilling	4096.004555	186.2976253
	7000	0.07%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2019	007000	Construction	C.1 Well Drilling	4907.51531	222.9474742
2019	8000	0.03%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2019	008000	Construction	C.1 Well Drilling	6124.781441	277.9222474
	9000	0.04%	0.05%	No Reduct	No Reduct	0.07%	0.07%	2019	009000	Construction	C.1 Well Drilling	7342.047572	332.8970206
	10000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2019	010000	Construction	C.1 Well Drilling	9370.824458	424.5216427
	11000	0.03%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2019	011000	Construction	C.1 Well Drilling	14035.91596	622.1002856
	12000	0.04%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2019	012000	Construction	C.1 Well Drilling	17535.28226	776.8632618
	13000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2019	013000	Construction	C.1 Well Drilling	21534.55802	953.7352345
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2019	014000	Construction	C.1 Well Drilling	26533.65273	1174.8252
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2019	015000	Construction	C.1 Well Drilling	32532.56637	1440.133159
	1000	0.69%	0.61%	No Reduct	No Reduct	0.93%	0.93%	2020	001000	Construction	C.1 Well Drilling	473.7173815	31.85752448
	2000	3.44%	3.02%	No Reduct	No Reduct	4.68%	4.68%	2020	002000	Construction	C.1 Well Drilling	619.9858554	41.56484144
	3000	2.49%	2.19%	No Reduct	No Reduct	3.40%	3.40%	2020	003000	Construction	C.1 Well Drilling	766.2543294	51.27215841
	4000	0.48%	0.43%	No Reduct	No Reduct	0.67%	0.67%	2020	004000	Construction	C.1 Well Drilling	912.5228033	60.97947537
	5000	0.81%	0.72%	No Reduct	No Reduct	1.12%	1.12%	2020	005000	Construction	C.1 Well Drilling	1205.059751	80.39410929
	6000	0.11%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2020	006000	Construction	C.1 Well Drilling	4023.834188	181.5986855

855.7315035	1.008083983	40.71607697	37.45879081	2017	002000	Construction	C.1 Well Drilling	32.41312879	1.730549615	No Reduction	No Reduction
1060.969963	1.249762162	50.0321686	46.02959511	2017	003000	Construction	C.1 Well Drilling	28.98818585	1.548141181	No Reduction	No Reduction
1266.208422	1.491440341	59.34826023	54.60039941	2017	004000	Construction	C.1 Well Drilling	6.73634071	0.359832269	No Reduction	No Reduction
1676.68534	1.974796699	77.98044349	71.74200801	2017	005000	Construction	C.1 Well Drilling	14.88937288	0.795542612	No Reduction	No Reduction
3961.954751	4.661204512	174.9119482	160.9189923	2017	006000	Construction	C.1 Well Drilling	5.293866776	0.278327176	No Reduction	No Reduction
4747.390168	5.585171161	209.2039957	192.4676761	2017	007000	Construction	C.1 Well Drilling	3.926440877	0.206455562	No Reduction	No Reduction
5925.543293	6.971121135	260.6420671	239.7907017	2017	008000	Construction	C.1 Well Drilling	2.231304107	0.117336098	No Reduction	No Reduction
7103.696418	8.357071108	312.0801384	287.1137273	2017	009000	Construction	C.1 Well Drilling	3.963237628	0.208426733	No Reduction	No Reduction
9067.284959	10.66698773	397.8102572	365.9854367	2017	010000	Construction	C.1 Well Drilling	4.517211014	0.237578418	No Reduction	No Reduction
13484.46933	15.8601023	577.269724	531.0881461	2017	011000	Construction	C.1 Well Drilling	5.689887338	0.299522118	No Reduction	No Reduction
16846.89225	19.81478506	720.7242274	663.0662892	2017	012000	Construction	C.1 Well Drilling	9.407243521	0.495228398	No Reduction	No Reduction
20689.6613	24.3344225	884.6722312	813.8984527	2017	013000	Construction	C.1 Well Drilling	10.14848505	0.534266263	No Reduction	No Reduction
25493.12261	29.9839693	1089.607236	1002.438657	2017	014000	Construction	C.1 Well Drilling	3.474741217	0.182932163	No Reduction	No Reduction
31257.27618	36.76342545	1335.529242	1228.686903	2017	015000	Construction	C.1 Well Drilling	0.852320484	0.044872403	No Reduction	No Reduction
650.4930445	0.766405804	25.96951865	23.89195716	2018	001000	Construction	C.1 Well Drilling	4.288875757	0.23034818	No Reduction	No Reduction
855.7315035	1.008083983	33.66149016	30.96857094	2018	002000	Construction	C.1 Well Drilling	27.83410129	1.496632572	No Reduction	No Reduction
1060.969963	1.249762162	41.35346166	38.04518473	2018	003000	Construction	C.1 Well Drilling	24.9168598	1.340727287	No Reduction	No Reduction
1266.208422	1.491440341	49.04543317	45.12179851	2018	004000	Construction	C.1 Well Drilling	5.779323363	0.311125108	No Reduction	No Reduction
1676.68534	1.974796699	64.42937617	59.27502608	2018	005000	Construction	C.1 Well Drilling	12.80731386	0.689899086	No Reduction	No Reduction
3961.954751	4.661204512	163.1964128	150.1406998	2018	006000	Construction	C.1 Well Drilling	5.103409774	0.26424411	No Reduction	No Reduction
4747.390168	5.585171161	195.2569746	179.6364166	2018	007000	Construction	C.1 Well Drilling	3.785761784	0.196062779	No Reduction	No Reduction
5925.543293	6.971121135	243.3478172	223.8799918	2018	008000	Construction	C.1 Well Drilling	2.151691377	0.111460159	No Reduction	No Reduction
7103.696418	8.357071108	291.4386598	268.123567	2018	009000	Construction	C.1 Well Drilling	3.822223738	0.198025629	No Reduction	No Reduction
9067.284959	10.66698773	371.5900642	341.862859	2018	010000	Construction	C.1 Well Drilling	4.356975805	0.225767893	No Reduction	No Reduction
13484.46933	15.8601023	544.5728937	501.0070622	2018	011000	Construction	C.1 Well Drilling	5.519181522	0.28680046	No Reduction	No Reduction
16846.89225	19.81478506	679.9927161	625.5932988	2018	012000	Construction	C.1 Well Drilling	9.125533169	0.47424434	No Reduction	No Reduction
20689.6613	24.3344225	834.7582274	767.9775692	2018	013000	Construction	C.1 Well Drilling	9.844997019	0.511668175	No Reduction	No Reduction
25493.12261	29.9839693	1028.215117	945.9579072	2018	014000	Construction	C.1 Well Drilling	3.370948596	0.175205952	No Reduction	No Reduction
31257.27618	36.76342545	1260.363384	1159.534313	2018	015000	Construction	C.1 Well Drilling	0.826884282	0.042979412	No Reduction	No Reduction
650.4930445	0.766405804	23.45834049	21.58167325	2019	001000	Construction	C.1 Well Drilling	3.946426808	0.214737109	No Reduction	No Reduction
855.7315035	1.008083983	30.43243937	27.99784422	2019	002000	Construction	C.1 Well Drilling	25.68438529	1.40006245	No Reduction	No Reduction
1060.969963	1.249762162	37.40653826	34.4140152	2019	003000	Construction	C.1 Well Drilling	22.95909653	1.252898899	No Reduction	No Reduction
1266.208422	1.491440341	44.38063715	40.83018618	2019	004000	Construction	C.1 Well Drilling	5.321225857	0.290604744	No Reduction	No Reduction
1676.68534	1.974796699	58.32883492	53.66252813	2019	005000	Construction	C.1 Well Drilling	11.82648828	0.646499608	No Reduction	No Reduction
3961.954751	4.661204512	124.3601064	114.4112979	2019	006000	Construction	C.1 Well Drilling	4.327282772	0.200728182	No Reduction	No Reduction
4747.390168	5.585171161	148.7249189	136.8269254	2019	007000	Construction	C.1 Well Drilling	3.209711704	0.14887451	No Reduction	No Reduction
5925.543293	6.971121135	185.2721377	170.4503667	2019	008000	Construction	C.1 Well Drilling	1.82410781	0.084599171	No Reduction	No Reduction
7103.696418	8.357071108	221.8193565	204.0738079	2019	009000	Construction	C.1 Well Drilling	3.240099976	0.150261659	No Reduction	No Reduction
9067.284959	10.66698773	282.7313878	260.1128767	2019	010000	Construction	C.1 Well Drilling	3.693148045	0.171260979	No Reduction	No Reduction
13484.46933	15.8601023	411.1971285	378.3013582	2019	011000	Construction	C.1 Well Drilling	4.671728916	0.21576997	No Reduction	No Reduction
16846.89225	19.81478506	513.3623997	472.2934077	2019	012000	Construction	C.1 Well Drilling	7.724068071	0.356735253	No Reduction	No Reduction
20689.6613	24.3344225	630.1227096	579.7128928	2019	013000	Construction	C.1 Well Drilling	8.332823387	0.384841701	No Reduction	No Reduction
25493.12261	29.9839693	776.073097	713.9872492	2019	014000	Construction	C.1 Well Drilling	2.853115936	0.131765322	No Reduction	No Reduction
31257.27618	36.76342545	951.2135618	875.1164769	2019	015000	Construction	C.1 Well Drilling	0.699849473	0.032320629	No Reduction	No Reduction
650.4930445	0.766405804	19.78680255	18.20385834	2020	001000	Construction	C.1 Well Drilling	3.286362922	0.192766471	No Reduction	No Reduction
855.7315035	1.008083983	25.64783746	23.59601046	2020	002000	Construction	C.1 Well Drilling	21.31607308	1.25450711	No Reduction	No Reduction
1060.969963	1.249762162	31.50887236	28.98816257	2020	003000	Construction	C.1 Well Drilling	19.04525965	1.123187874	No Reduction	No Reduction
1266.208422	1.491440341	37.36990727	34.38031469	2020	004000	Construction	C.1 Well Drilling	4.423533574	0.261244641	No Reduction	No Reduction
1676.68534	1.974796699	49.09197709	45.16461892	2020	005000	Construction	C.1 Well Drilling	9.778431549	0.578532874	No Reduction	No Reduction
3961.954751	4.661204512	119.4004227	109.8483889	2020	006000	Construction	C.1 Well Drilling	4.244651216	0.195371325	No Reduction	No Reduction

1.904671771	1.752298251	1581	2017	25.6225783	1.36799947	No Reduction	No Reduction	1.50564303	1.38519177
1.703664837	1.567371506	1131	2017	16.3928191	0.87547384	No Reduction	No Reduction	0.96342247	0.88634859
0.395941926	0.364266555	219	2017	0.73762931	0.03940163	No Reduction	No Reduction	0.04335564	0.03988719
0.875268479	0.80524693	363	2017	2.70242118	0.14439098	No Reduction	No Reduction	0.15886123	0.14615232
0.311930899	0.286976405	89	2017	0.23557707	0.01238556	No Reduction	No Reduction	0.01388092	0.01277045
0.231402694	0.212890472	55	2017	0.10797712	0.00567753	No Reduction	No Reduction	0.00636357	0.00585449
0.131526405	0.121004295	25	2017	0.0278913	0.0014667	No Reduction	No Reduction	0.00164408	0.00151255
0.233647604	0.214955786	37	2017	0.0733199	0.00385589	No Reduction	No Reduction	0.00432248	0.00397668
0.266344672	0.245037098	33	2017	0.07453398	0.00392004	No Reduction	No Reduction	0.00439469	0.00404311
0.336448548	0.309532672	31	2017	0.08819325	0.00464259	No Reduction	No Reduction	0.00521495	0.00479776
0.556303833	0.511799533	41	2017	0.19284849	0.01015218	No Reduction	No Reduction	0.01140423	0.01049189
0.600173431	0.552159558	36	2017	0.18267273	0.00961679	No Reduction	No Reduction	0.01080312	0.00993887
0.205503599	0.189063315	10	2017	0.01737371	0.00091466	No Reduction	No Reduction	0.00102752	0.00094532
0.050410027	0.046377225	2	2017	0.00085232	4.4872E-05	No Reduction	No Reduction	5.041E-05	4.6377E-05
0.242390829	0.22299956	325	2018	0.69694231	0.03743158	No Reduction	No Reduction	0.03938851	0.03623743
1.573284578	1.447421995	1582	2018	22.0167741	1.18383636	No Reduction	No Reduction	1.2444681	1.1449108
1.408507381	1.295826672	1133	2018	14.1154011	0.75952201	No Reduction	No Reduction	0.79791943	0.73408581
0.326713585	0.300576484	219	2018	0.63283591	0.0340682	No Reduction	No Reduction	0.03577514	0.03291313
0.724068064	0.666142561	364	2018	2.33093112	0.12556163	No Reduction	No Reduction	0.13178039	0.12123795
0.290599356	0.267351387	89	2018	0.22710173	0.01175886	No Reduction	No Reduction	0.01293167	0.01189714
0.215650322	0.198398291	55	2018	0.10410845	0.00539173	No Reduction	No Reduction	0.00593038	0.00545595
0.122614269	0.11280513	25	2018	0.02689614	0.00139325	No Reduction	No Reduction	0.00153268	0.00141006
0.217865009	0.200435799	37	2018	0.07071114	0.00366347	No Reduction	No Reduction	0.0040305	0.00370806
0.248414676	0.228541502	33	2018	0.0718901	0.00372517	No Reduction	No Reduction	0.00409884	0.00377093
0.316913703	0.291560615	31	2018	0.08554731	0.00444541	No Reduction	No Reduction	0.00491216	0.00451919
0.524073635	0.48214775	41	2018	0.18707343	0.00972201	No Reduction	No Reduction	0.01074351	0.00988403
0.565457799	0.520221177	36	2018	0.17720995	0.00921003	No Reduction	No Reduction	0.01017824	0.00936398
0.193632636	0.178142028	10	2018	0.01685474	0.00087603	No Reduction	No Reduction	0.00096816	0.00089071
0.047501183	0.043701089	2	2018	0.00082688	4.2979E-05	No Reduction	No Reduction	4.7501E-05	4.3701E-05
0.218622912	0.201133077	325	2019	0.64129436	0.03489478	No Reduction	No Reduction	0.03552622	0.03268412
1.423814866	1.309909843	1586	2019	20.3677175	1.11024952	No Reduction	No Reduction	1.12908519	1.03875851
1.273280321	1.171417788	1134	2019	13.0178077	0.71039368	No Reduction	No Reduction	0.72194994	0.66419389
0.295194497	0.271578925	219	2019	0.58267423	0.03182122	No Reduction	No Reduction	0.0323238	0.02973789
0.656321082	0.603815343	365	2019	2.15833411	0.11798618	No Reduction	No Reduction	0.1197786	0.1101963
0.221111449	0.203422517	89	2019	0.19256408	0.0089324	No Reduction	No Reduction	0.00983946	0.0090523
0.164011161	0.150890264	55	2019	0.08826707	0.00409405	No Reduction	No Reduction	0.00451031	0.00414948
0.09321156	0.085754637	25	2019	0.02280135	0.00105749	No Reduction	No Reduction	0.00116514	0.00107193
0.165571609	0.152325873	37	2019	0.05994185	0.00277984	No Reduction	No Reduction	0.00306307	0.00281803
0.188726674	0.173628541	33	2019	0.06093694	0.00282581	No Reduction	No Reduction	0.00311399	0.00286487
0.238935773	0.219820917	31	2019	0.0724118	0.00334443	No Reduction	No Reduction	0.0037035	0.00340722
0.395055592	0.363451149	41	2019	0.1583434	0.00731307	No Reduction	No Reduction	0.00809864	0.00745075
0.426197334	0.392101548	36	2019	0.14999082	0.00692715	No Reduction	No Reduction	0.00767155	0.00705783
0.145929572	0.134255209	10	2019	0.01426558	0.00065883	No Reduction	No Reduction	0.00072965	0.00067128
0.035795859	0.032932191	2	2019	0.00069985	3.2321E-05	No Reduction	No Reduction	3.5796E-05	3.2932E-05
0.184695085	0.169919476	326	2020	0.53567716	0.03142093	No Reduction	No Reduction	0.0301053	0.02769687
1.19967032	1.103696834	1588	2020	16.924962	0.99607865	No Reduction	No Reduction	0.95253823	0.87633529
1.072807337	0.98698266	1136	2020	10.8177075	0.63797071	No Reduction	No Reduction	0.60935457	0.56060615
0.249323032	0.229377179	220	2020	0.48658869	0.02873691	No Reduction	No Reduction	0.02742553	0.02523149
0.551557336	0.507432705	365	2020	1.78456376	0.10558225	No Reduction	No Reduction	0.10065921	0.09260647
0.211974246	0.195016291	89	2020	0.18888698	0.00869402	No Reduction	No Reduction	0.00943285	0.00867822

28.49622081	1581	0.018024175	125.7005971	2017
18.2317154	1131	0.016119996	112.4208516	2017
0.820386582	219	0.003746057	26.12500467	2017
3.005673391	363	0.008280092	57.74536151	2017
0.261843556	89	0.002942062	20.51794336	2017
0.120018226	55	0.00218215	15.21831108	2017
0.031002083	25	0.001240083	8.64834097	2017
0.081498271	37	0.002202656	15.36132282	2017
0.082848713	33	0.002510567	17.50869462	2017
0.098050799	31	0.003162929	22.05826686	2017
0.214404903	41	0.005229388	36.46975105	2017
0.203092645	36	0.005641462	39.3435586	2017
0.019315885	10	0.001931588	13.47089813	2017
0.000947603	2	0.000473801	3.30429136	2017
0.773762399	325	0.002380807	16.60375069	2018
24.44507859	1582	0.015452009	107.7623123	2018
15.67284251	1133	0.013833047	96.4716714	2018
0.702679245	219	0.003208581	22.37664409	2018
2.588273144	364	0.007110641	49.58960689	2018
0.251792269	89	0.002829127	19.73032905	2018
0.115430559	55	0.002098737	14.63659492	2018
0.029822073	25	0.001192883	8.319165363	2018
0.078405116	37	0.002119057	14.77830483	2018
0.079714113	33	0.002415579	16.84624925	2018
0.094904883	31	0.003061448	21.35053726	2018
0.207538948	41	0.005061926	35.30186894	2018
0.196598214	36	0.005461061	38.08544288	2018
0.018698936	10	0.001869894	13.04063791	2018
0.000917365	2	0.000458682	3.198851324	2018
0.71171536	325	0.002189893	15.27231667	2019
22.60705225	1586	0.014254131	99.40831171	2019
14.45015135	1134	0.012742638	88.86715654	2019
0.646819248	219	0.002953513	20.59779652	2019
2.396098886	365	0.006564654	45.78190037	2019
0.211335947	89	0.002374561	16.56018982	2019
0.096871428	55	0.001761299	12.28329704	2019
0.025023982	25	0.001000959	6.980689952	2019
0.065784765	37	0.001777967	12.39953922	2019
0.066876739	33	0.002026568	14.13328418	2019
0.079459737	31	0.002563217	17.87587766	2019
0.173755108	41	0.004237929	29.55532004	2019
0.164589524	36	0.004571931	31.88464827	2019
0.015654054	10	0.001565405	10.91713737	2019
0.000767966	2	0.000383983	2.677897307	2019
0.59720339	326	0.001831912	12.77575595	2020
18.8735789	1588	0.011885125	82.88686352	2020
12.06503276	1136	0.010620627	74.0682557	2020
0.542751137	220	0.002467051	17.20521105	2020
1.990805221	365	0.005454261	38.03801537	2020
0.207013857	89	0.002325998	16.2215128	2020

	7000	0.07%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2020	007000	Construction	C.1 Well Drilling	4821.618634	217.3713079
2020	8000	0.03%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2020	008000	Construction	C.1 Well Drilling	6018.295302	271.0302415
	9000	0.04%	0.05%	No Reduct	No Reduct	0.07%	0.07%	2020	009000	Construction	C.1 Well Drilling	7214.971971	324.6891751
	10000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2020	010000	Construction	C.1 Well Drilling	9209.433085	414.1207311
	11000	0.03%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2020	011000	Construction	C.1 Well Drilling	13837.57353	609.3806479
	12000	0.04%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2020	012000	Construction	C.1 Well Drilling	17288.23892	761.0419164
	13000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2020	013000	Construction	C.1 Well Drilling	21231.85651	934.3690805
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2020	014000	Construction	C.1 Well Drilling	26161.3785	1151.028036
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2020	015000	Construction	C.1 Well Drilling	32076.80488	1411.018782
	1000	0.69%	0.60%	No Reduct	No Reduct	0.93%	0.93%	2021	001000	Construction	C.1 Well Drilling	454.0675786	30.83737278
	2000	3.44%	3.02%	No Reduct	No Reduct	4.68%	4.68%	2021	002000	Construction	C.1 Well Drilling	594.768133	40.29517785
	3000	2.49%	2.19%	No Reduct	No Reduct	3.41%	3.41%	2021	003000	Construction	C.1 Well Drilling	735.4686874	49.75298292
	4000	0.48%	0.43%	No Reduct	No Reduct	0.67%	0.67%	2021	004000	Construction	C.1 Well Drilling	876.1692418	59.21078799
	5000	0.81%	0.72%	No Reduct	No Reduct	1.12%	1.12%	2021	005000	Construction	C.1 Well Drilling	1157.570351	78.12639812
	6000	0.11%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2021	006000	Construction	C.1 Well Drilling	3979.529499	180.8457994
	7000	0.07%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2021	007000	Construction	C.1 Well Drilling	4769.042215	216.5221677
2021	8000	0.03%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2021	008000	Construction	C.1 Well Drilling	5953.31129	270.0367203
	9000	0.04%	0.05%	No Reduct	No Reduct	0.07%	0.07%	2021	009000	Construction	C.1 Well Drilling	7137.580365	323.5512728
	10000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2021	010000	Construction	C.1 Well Drilling	9111.362157	412.7421937
	11000	0.03%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2021	011000	Construction	C.1 Well Drilling	13724.00099	609.9411943
	12000	0.04%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2021	012000	Construction	C.1 Well Drilling	17147.00976	761.8105034
	13000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2021	013000	Construction	C.1 Well Drilling	21059.01979	935.3754282
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2021	014000	Construction	C.1 Well Drilling	25949.03232	1152.331584
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2021	015000	Construction	C.1 Well Drilling	31817.04735	1412.678971
	1000	0.69%	0.60%	No Reduct	No Reduct	0.93%	0.93%	2022	001000	Construction	C.1 Well Drilling	341.9227276	25.77051109
	2000	3.44%	3.02%	No Reduct	No Reduct	4.68%	4.68%	2022	002000	Construction	C.1 Well Drilling	446.6023834	33.65855547
	3000	2.49%	2.19%	No Reduct	No Reduct	3.41%	3.41%	2022	003000	Construction	C.1 Well Drilling	551.2820392	41.54659984
	4000	0.48%	0.43%	No Reduct	No Reduct	0.67%	0.67%	2022	004000	Construction	C.1 Well Drilling	655.961695	49.43464421
	5000	0.81%	0.72%	No Reduct	No Reduct	1.12%	1.12%	2022	005000	Construction	C.1 Well Drilling	865.3210066	65.21073296
	6000	0.11%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2022	006000	Construction	C.1 Well Drilling	3920.329107	178.9607315
	7000	0.07%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2022	007000	Construction	C.1 Well Drilling	4698.818176	214.3316023
2022	8000	0.03%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2022	008000	Construction	C.1 Well Drilling	5866.55178	267.3879083
	9000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2022	009000	Construction	C.1 Well Drilling	7034.285384	320.4442144
	10000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2022	010000	Construction	C.1 Well Drilling	8980.508058	408.8713912
	11000	0.03%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2022	011000	Construction	C.1 Well Drilling	13571.14572	607.5116973
	12000	0.04%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2022	012000	Construction	C.1 Well Drilling	16956.96121	758.8630271
	13000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2022	013000	Construction	C.1 Well Drilling	20826.46463	931.8359755
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2022	014000	Construction	C.1 Well Drilling	25663.3439	1148.052161
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2022	015000	Construction	C.1 Well Drilling	31467.59903	1407.511583
	1000	0.69%	0.60%	No Reduct	No Reduct	0.93%	0.93%	2023	001000	Construction	C.1 Well Drilling	313.9175079	24.67658143
	2000	3.44%	3.02%	No Reduct	No Reduct	4.69%	4.69%	2023	002000	Construction	C.1 Well Drilling	410.0209101	32.26580395
	3000	2.49%	2.19%	No Reduct	No Reduct	3.40%	3.40%	2023	003000	Construction	C.1 Well Drilling	506.1243122	39.85502648
	4000	0.48%	0.43%	No Reduct	No Reduct	0.67%	0.67%	2023	004000	Construction	C.1 Well Drilling	602.2277144	47.444249
	5000	0.81%	0.72%	No Reduct	No Reduct	1.12%	1.12%	2023	005000	Construction	C.1 Well Drilling	794.4345188	62.62269405
	6000	0.11%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2023	006000	Construction	C.1 Well Drilling	3880.922951	178.4587114
	7000	0.07%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2023	007000	Construction	C.1 Well Drilling	4651.986081	213.7686709
2023	8000	0.03%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2023	008000	Construction	C.1 Well Drilling	5808.580775	266.7336101
	9000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2023	009000	Construction	C.1 Well Drilling	6965.17547	319.6985494
	10000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2023	010000	Construction	C.1 Well Drilling	8892.833295	407.9734481
	11000	0.03%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2023	011000	Construction	C.1 Well Drilling	13468.3814	608.4672392

4747.390168	5.585171161	142.8397677	131.4125863	2020	007000	Construction	C.1 Well Drilling	3.148794431	0.144932938	No Reduction	No Reduction
5925.543293	6.971121135	177.9987851	163.7588823	2020	008000	Construction	C.1 Well Drilling	1.789701037	0.082377315	No Reduction	No Reduction
7103.696418	8.357071108	213.1578026	196.1051784	2020	009000	Construction	C.1 Well Drilling	3.179237366	0.14633667	No Reduction	No Reduction
9067.284959	10.66698773	271.756165	250.0156718	2020	010000	Construction	C.1 Well Drilling	3.624089386	0.166814058	No Reduction	No Reduction
13484.46933	15.8601023	397.7571575	365.9365849	2020	011000	Construction	C.1 Well Drilling	4.598793465	0.211040763	No Reduction	No Reduction
16846.89225	19.81478506	496.6455224	456.9138806	2020	012000	Construction	C.1 Well Drilling	7.6038086	0.348945106	No Reduction	No Reduction
20689.6613	24.3344225	609.6607966	560.8879329	2020	013000	Construction	C.1 Well Drilling	8.203350617	0.376460874	No Reduction	No Reduction
25493.12261	29.9839693	750.9298894	690.8554982	2020	014000	Construction	C.1 Well Drilling	2.80885999	0.128902359	No Reduction	No Reduction
31257.27618	36.76342545	920.4528007	846.8165766	2020	015000	Construction	C.1 Well Drilling	0.689008385	0.031619648	No Reduction	No Reduction
650.4930445	0.766405804	18.29023578	16.82701692	2021	001000	Construction	C.1 Well Drilling	3.14531948	0.186313752	No Reduction	No Reduction
855.7315035	1.008083983	23.74861487	21.84872568	2021	002000	Construction	C.1 Well Drilling	20.44409102	1.215891357	No Reduction	No Reduction
1060.969963	1.249762162	29.20699396	26.87043444	2021	003000	Construction	C.1 Well Drilling	18.30086452	1.091147323	No Reduction	No Reduction
1266.208422	1.491440341	34.66537304	31.8921432	2021	004000	Construction	C.1 Well Drilling	4.240935566	0.253286835	No Reduction	No Reduction
1676.68534	1.974796699	45.58213122	41.93556072	2021	005000	Construction	C.1 Well Drilling	9.404686068	0.562908629	No Reduction	No Reduction
3961.954751	4.661204512	115.4316973	106.1971615	2021	006000	Construction	C.1 Well Drilling	4.191618334	0.194269497	No Reduction	No Reduction
4747.390168	5.585171161	138.135017	127.0842157	2021	007000	Construction	C.1 Well Drilling	3.109787316	0.144150221	No Reduction	No Reduction
5925.543293	6.971121135	172.1899967	158.4147969	2021	008000	Construction	C.1 Well Drilling	1.767720739	0.08195223	No Reduction	No Reduction
7103.696418	8.357071108	206.2449763	189.7453782	2021	009000	Construction	C.1 Well Drilling	3.140417482	0.145605085	No Reduction	No Reduction
9067.284959	10.66698773	263.0032757	241.9630136	2021	010000	Construction	C.1 Well Drilling	3.580118341	0.166009374	No Reduction	No Reduction
13484.46933	15.8601023	387.1571718	356.184598	2021	011000	Construction	C.1 Well Drilling	4.55420708	0.210918039	No Reduction	No Reduction
16846.89225	19.81478506	483.4676901	444.7902749	2021	012000	Construction	C.1 Well Drilling	7.530379877	0.348773564	No Reduction	No Reduction
20689.6613	24.3344225	593.5368539	546.0539056	2021	013000	Construction	C.1 Well Drilling	8.12436685	0.376301036	No Reduction	No Reduction
25493.12261	29.9839693	731.1233086	672.6334439	2021	014000	Construction	C.1 Well Drilling	2.781881997	0.128854769	No Reduction	No Reduction
31257.27618	36.76342545	896.2270543	824.5288899	2021	015000	Construction	C.1 Well Drilling	0.682403661	0.031609366	No Reduction	No Reduction
650.4930445	0.766405804	13.75387874	12.65356844	2022	001000	Construction	C.1 Well Drilling	2.364946317	0.155467501	No Reduction	No Reduction
855.7315035	1.008083983	17.82438787	16.39843684	2022	002000	Construction	C.1 Well Drilling	15.37636786	1.017301716	No Reduction	No Reduction
1060.969963	1.249762162	21.89489701	20.14330525	2022	003000	Construction	C.1 Well Drilling	13.70917864	0.910604785	No Reduction	No Reduction
1266.208422	1.491440341	25.96540614	23.88817365	2022	004000	Construction	C.1 Well Drilling	3.170306104	0.211150559	No Reduction	No Reduction
1676.68534	1.974796699	34.10642441	31.37791045	2022	005000	Construction	C.1 Well Drilling	7.019775157	0.469146231	No Reduction	No Reduction
3961.954751	4.661204512	110.3747683	101.5447868	2022	006000	Construction	C.1 Well Drilling	4.123078243	0.191956571	No Reduction	No Reduction
4747.390168	5.585171161	132.1412517	121.5699516	2022	007000	Construction	C.1 Well Drilling	3.059406658	0.142478129	No Reduction	No Reduction
5925.543293	6.971121135	164.7909768	151.6076987	2022	008000	Construction	C.1 Well Drilling	1.739350154	0.081026814	No Reduction	No Reduction
7103.696418	8.357071108	197.4407019	181.6454457	2022	009000	Construction	C.1 Well Drilling	3.090333895	0.143990855	No Reduction	No Reduction
9067.284959	10.66698773	251.8569104	231.7083575	2022	010000	Construction	C.1 Well Drilling	3.523416847	0.164206186	No Reduction	No Reduction
13484.46933	15.8601023	373.7364222	343.8375084	2022	011000	Construction	C.1 Well Drilling	4.496738094	0.209763273	No Reduction	No Reduction
16846.89225	19.81478506	466.7849399	429.4421447	2022	012000	Construction	C.1 Well Drilling	7.435763411	0.346903789	No Reduction	No Reduction
20689.6613	24.3344225	573.126103	527.2760147	2022	013000	Construction	C.1 Well Drilling	8.022615388	0.374315643	No Reduction	No Reduction
25493.12261	29.9839693	706.0525568	649.5683523	2022	014000	Construction	C.1 Well Drilling	2.747133894	0.128183964	No Reduction	No Reduction
31257.27618	36.76342545	865.5643015	796.3191573	2022	015000	Construction	C.1 Well Drilling	0.673897939	0.031446574	No Reduction	No Reduction
650.4930445	0.766405804	12.11604117	11.14675788	2023	001000	Construction	C.1 Well Drilling	2.174648295	0.149101411	No Reduction	No Reduction
855.7315035	1.008083983	15.71365812	14.45656547	2023	002000	Construction	C.1 Well Drilling	14.12228063	0.975580032	No Reduction	No Reduction
1060.969963	1.249762162	19.31127507	17.76637307	2023	003000	Construction	C.1 Well Drilling	12.57840591	0.872988167	No Reduction	No Reduction
1266.208422	1.491440341	22.90889202	21.07618066	2023	004000	Construction	C.1 Well Drilling	2.919463626	0.203265659	No Reduction	No Reduction
1676.68534	1.974796699	30.10412592	27.69579585	2023	005000	Construction	C.1 Well Drilling	6.435081952	0.449853308	No Reduction	No Reduction
3961.954751	4.661204512	106.7825202	98.23991859	2023	006000	Construction	C.1 Well Drilling	4.075529965	0.191131826	No Reduction	No Reduction
4747.390168	5.585171161	127.8743862	117.6444353	2023	007000	Construction	C.1 Well Drilling	3.024384437	0.141891399	No Reduction	No Reduction
5925.543293	6.971121135	159.5121851	146.7512103	2023	008000	Construction	C.1 Well Drilling	1.719587048	0.080707661	No Reduction	No Reduction
7103.696418	8.357071108	191.1499841	175.8579854	2023	009000	Construction	C.1 Well Drilling	3.055395987	0.143440953	No Reduction	No Reduction
9067.284959	10.66698773	243.879649	224.3692771	2023	010000	Construction	C.1 Well Drilling	3.483800614	0.163600531	No Reduction	No Reduction
13484.46933	15.8601023	363.9836776	334.8649834	2023	011000	Construction	C.1 Well Drilling	4.45601359	0.209779008	No Reduction	No Reduction

0.157284485	0.144701722	55	2020	0.08659185	0.00398566	No Reduction	No Reduction	0.00432532	0.0039793
0.089417761	0.082264342	25	2020	0.02237126	0.00102972	No Reduction	No Reduction	0.00111772	0.0010283
0.158867387	0.146157989	37	2020	0.05881589	0.00270723	No Reduction	No Reduction	0.00293905	0.00270392
0.181128069	0.166637823	33	2020	0.05979747	0.00275243	No Reduction	No Reduction	0.00298861	0.00274952
0.230778952	0.212316641	31	2020	0.0712813	0.00327113	No Reduction	No Reduction	0.00357707	0.00329091
0.381617051	0.351087691	41	2020	0.15587808	0.00715337	No Reduction	No Reduction	0.00782315	0.0071973
0.411738004	0.378798965	36	2020	0.14766031	0.0067763	No Reduction	No Reduction	0.00741128	0.00681838
0.140989627	0.129710459	10	2020	0.0140443	0.00064451	No Reduction	No Reduction	0.00070495	0.00064855
0.034586241	0.031819342	2	2020	0.00068901	3.162E-05	No Reduction	No Reduction	3.4586E-05	3.1819E-05
0.170469659	0.156832084	326	2021	0.51268708	0.03036914	No Reduction	No Reduction	0.02778655	0.02556363
1.110565408	1.021720305	1590	2021	16.2530524	0.96663363	No Reduction	No Reduction	0.8828995	0.81226764
0.99556403	0.915918823	1139	2021	10.4223423	0.6214084	No Reduction	No Reduction	0.56697371	0.52161577
0.230932112	0.212457533	220	2021	0.46650291	0.02786155	No Reduction	No Reduction	0.02540253	0.02337033
0.512756364	0.471735814	366	2021	1.72105755	0.10301228	No Reduction	No Reduction	0.09383441	0.08632765
0.204621086	0.188251385	89	2021	0.18652702	0.00864499	No Reduction	No Reduction	0.00910564	0.00837719
0.151875809	0.139725741	55	2021	0.08551915	0.00396413	No Reduction	No Reduction	0.00417658	0.00384246
0.086369965	0.079460369	25	2021	0.02209651	0.0010244	No Reduction	No Reduction	0.00107962	0.00099325
0.153484656	0.141205877	37	2021	0.05809772	0.00269369	No Reduction	No Reduction	0.00283947	0.00261231
0.175031244	0.161028744	33	2021	0.05907195	0.00273915	No Reduction	No Reduction	0.00288802	0.00265697
0.22429189	0.206348544	31	2021	0.07059021	0.00326923	No Reduction	No Reduction	0.00347652	0.0031984
0.37093411	0.341259385	41	2021	0.15437279	0.00714986	No Reduction	No Reduction	0.00760415	0.00699582
0.400247332	0.368227546	36	2021	0.1462386	0.00677342	No Reduction	No Reduction	0.00720445	0.0066281
0.137064968	0.126099772	10	2021	0.01390941	0.00064427	No Reduction	No Reduction	0.00068532	0.0006305
0.033625439	0.030935404	2	2021	0.0006824	3.1609E-05	No Reduction	No Reduction	3.3625E-05	3.0935E-05
0.127997658	0.117757844	326	2022	0.38548625	0.0253412	No Reduction	No Reduction	0.02086362	0.01919453
0.834897366	0.768105674	1595	2022	12.2626534	0.81129812	No Reduction	No Reduction	0.66583065	0.61256428
0.745856736	0.686188134	1140	2022	7.81423182	0.51904473	No Reduction	No Reduction	0.42513834	0.39112724
0.172716017	0.158898729	220	2022	0.34873367	0.02322656	No Reduction	No Reduction	0.01899876	0.01747886
0.383090754	0.352443463	366	2022	1.28461885	0.08585376	No Reduction	No Reduction	0.07010561	0.06449715
0.195363827	0.179734707	89	2022	0.18347698	0.00854207	No Reduction	No Reduction	0.00869369	0.00799819
0.14506822	0.133462759	55	2022	0.08413368	0.00391815	No Reduction	No Reduction	0.00398938	0.00367023
0.082534837	0.075932051	25	2022	0.02174188	0.00101284	No Reduction	No Reduction	0.00103169	0.00094915
0.146712568	0.134975557	37	2022	0.05717118	0.00266383	No Reduction	No Reduction	0.00271418	0.00249705
0.167362186	0.153973211	33	2022	0.05813638	0.0027094	No Reduction	No Reduction	0.00276148	0.00254056
0.216192554	0.198897155	31	2022	0.06969944	0.00325133	No Reduction	No Reduction	0.00335098	0.00308291
0.357598096	0.328990252	41	2022	0.15243315	0.00711153	No Reduction	No Reduction	0.00733076	0.0067443
0.385904631	0.355032261	36	2022	0.14440708	0.00673768	No Reduction	No Reduction	0.00694628	0.00639058
0.13216666	0.121593329	10	2022	0.01373567	0.00064092	No Reduction	No Reduction	0.00066083	0.00060797
0.032426367	0.029832258	2	2022	0.0006739	3.1447E-05	No Reduction	No Reduction	3.2426E-05	2.9832E-05
0.112932189	0.103897613	327	2023	0.355555	0.02437808	No Reduction	No Reduction	0.01846441	0.01698726
0.736311994	0.67740712	1598	2023	11.2837022	0.77948845	No Reduction	No Reduction	0.58831328	0.54124829
0.657437199	0.604842167	1141	2023	7.17598057	0.49803975	No Reduction	No Reduction	0.37506792	0.34506246
0.152848505	0.140620618	221	2023	0.32260073	0.02246086	No Reduction	No Reduction	0.01688976	0.01553858
0.337630383	0.310619925	366	2023	1.17762	0.08232316	No Reduction	No Reduction	0.06178636	0.05684345
0.188722872	0.173625029	89	2023	0.18136108	0.00850537	No Reduction	No Reduction	0.00839817	0.00772631
0.140173994	0.128960071	55	2023	0.08317057	0.00390201	No Reduction	No Reduction	0.00385478	0.0035464
0.079771499	0.073389781	25	2023	0.02149484	0.00100885	No Reduction	No Reduction	0.00099714	0.00091737
0.141825695	0.130479633	37	2023	0.05652483	0.00265366	No Reduction	No Reduction	0.00262378	0.00241387
0.161818827	0.148873321	33	2023	0.05748271	0.00269941	No Reduction	No Reduction	0.00267001	0.00245641
0.210236074	0.193417193	31	2023	0.06906821	0.00325157	No Reduction	No Reduction	0.00325866	0.00299797

0.094902826	55	0.001725506	12.03367834	2020
0.024518701	25	0.000980748	6.839736948	2020
0.064462166	37	0.001742221	12.15024724	2020
0.06553852	33	0.001986016	13.85047388	2020
0.078129504	31	0.002520307	17.57661816	2020
0.170854601	41	0.004167185	29.06195083	2020
0.161847891	36	0.004495775	31.35353309	2020
0.01539376	10	0.001539376	10.73560814	2020
0.000755214	2	0.000377607	2.633432175	2020
0.570842771	326	0.001751051	12.21183278	2021
18.10258549	1590	0.011385274	79.40090014	2021
11.61072446	1139	0.010193788	71.09147705	2021
0.519766996	220	0.002362577	16.47661379	2021
1.917904244	366	0.005240176	36.54498415	2021
0.204277647	89	0.002295254	16.00710459	2021
0.093659867	55	0.001702907	11.87607114	2021
0.024200537	25	0.000968021	6.750981708	2021
0.063630884	37	0.001719754	11.99356168	2021
0.064699123	33	0.001960579	13.67308129	2021
0.077335964	31	0.002494709	17.39809711	2021
0.169126795	41	0.004125044	28.76805529	2021
0.160216474	36	0.004450458	31.03749136	2021
0.015239009	10	0.001523901	10.62768465	2021
0.000747638	2	0.000373819	2.607015333	2021
0.431691071	326	0.001324206	9.23501082	2022
13.73978214	1595	0.008614283	60.07601292	2022
8.75841489	1140	0.00768282	53.57998723	2022
0.390958995	220	0.001777086	12.39340014	2022
1.440578222	366	0.003936006	27.44970634	2022
0.20071274	89	0.002255199	15.72776006	2022
0.092041208	55	0.001673477	11.67082514	2022
0.023786398	25	0.000951456	6.635453462	2022
0.06254919	37	0.001690519	11.78967713	2022
0.063607256	33	0.001927493	13.44233346	2022
0.076301756	31	0.002461347	17.1654337	2022
0.166875439	41	0.004070133	28.38510509	2022
0.158091042	36	0.004391418	30.62574795	2022
0.015037423	10	0.001503742	10.48709851	2022
0.000737771	2	0.000368885	2.572607057	2022
0.39839749	327	0.001218341	8.496709772	2023
12.65150395	1598	0.007917086	55.21376006	2023
8.049088243	1141	0.007054416	49.19749466	2023
0.361951346	221	0.001637789	11.42193975	2023
1.321729513	366	0.003611283	25.18508639	2023
0.198264618	89	0.002227692	15.53592632	2023
0.09092737	55	0.001653225	11.52959056	2023
0.023500828	25	0.000940033	6.555790869	2023
0.061802259	37	0.001670331	11.64889061	2023
0.06285213	33	0.00190461	13.28275004	2023
0.075578444	31	0.002438014	17.00271198	2023

	12000	0.04%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2023	012000	Construction	C.1 Well Drilling	16829.07493	760.1068205
	13000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2023	013000	Construction	C.1 Well Drilling	20669.86753	933.4091991
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2023	014000	Construction	C.1 Well Drilling	25470.85828	1150.037172
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2023	015000	Construction	C.1 Well Drilling	31232.04718	1409.99074
	1000	0.69%	0.60%	No Reduct	No Reduct	0.93%	0.93%	2024	001000	Construction	C.1 Well Drilling	279.1916833	23.5733669
	2000	3.44%	3.02%	No Reduct	No Reduct	4.68%	4.68%	2024	002000	Construction	C.1 Well Drilling	364.3215201	30.8390318
	3000	2.48%	2.19%	No Reduct	No Reduct	3.40%	3.40%	2024	003000	Construction	C.1 Well Drilling	449.451357	38.1046967
	4000	0.48%	0.43%	No Reduct	No Reduct	0.67%	0.67%	2024	004000	Construction	C.1 Well Drilling	534.5811938	45.3703616
	5000	0.81%	0.72%	No Reduct	No Reduct	1.13%	1.13%	2024	005000	Construction	C.1 Well Drilling	704.8408675	59.9016914
	6000	0.11%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2024	006000	Construction	C.1 Well Drilling	3872.359814	180.2189412
	7000	0.06%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2024	007000	Construction	C.1 Well Drilling	4642.071342	215.9074549
2024	8000	0.03%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2024	008000	Construction	C.1 Well Drilling	5796.638635	269.4402256
	9000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2024	009000	Construction	C.1 Well Drilling	6951.205927	322.9729963
	10000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2024	010000	Construction	C.1 Well Drilling	8875.484748	412.1942808
	11000	0.03%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2024	011000	Construction	C.1 Well Drilling	13456.8761	615.976267
	12000	0.04%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2024	012000	Construction	C.1 Well Drilling	16815.14459	769.5262407
	13000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2024	013000	Construction	C.1 Well Drilling	20653.16571	945.0119249
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2024	014000	Construction	C.1 Well Drilling	25450.69211	1164.36903
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2024	015000	Construction	C.1 Well Drilling	31207.7238	1427.597556
	1000	0.69%	0.60%	No Reduct	No Reduct	0.93%	0.93%	2025	001000	Construction	C.1 Well Drilling	259.2889181	22.75828312
	2000	3.44%	3.02%	No Reduct	No Reduct	4.68%	4.68%	2025	002000	Construction	C.1 Well Drilling	338.491929	29.80596118
	3000	2.48%	2.19%	No Reduct	No Reduct	3.40%	3.40%	2025	003000	Construction	C.1 Well Drilling	417.6949398	36.85363923
	4000	0.48%	0.43%	No Reduct	No Reduct	0.67%	0.67%	2025	004000	Construction	C.1 Well Drilling	496.8979507	43.90131728
	5000	0.81%	0.72%	No Reduct	No Reduct	1.12%	1.12%	2025	005000	Construction	C.1 Well Drilling	655.3039724	57.99667339
	6000	0.11%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2025	006000	Construction	C.1 Well Drilling	3854.5428	181.183546
	7000	0.07%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2025	007000	Construction	C.1 Well Drilling	4621.115383	217.0972054
2025	8000	0.03%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2025	008000	Construction	C.1 Well Drilling	5770.974257	270.9676945
	9000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2025	009000	Construction	C.1 Well Drilling	6920.833131	324.8381836
	10000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2025	010000	Construction	C.1 Well Drilling	8837.264589	414.6223321
	11000	0.03%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2025	011000	Construction	C.1 Well Drilling	13418.10925	621.1381394
	12000	0.04%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2025	012000	Construction	C.1 Well Drilling	16767.21659	776.018862
	13000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2025	013000	Construction	C.1 Well Drilling	20594.76783	953.0254021
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2025	014000	Construction	C.1 Well Drilling	25379.20689	1174.283577
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2025	015000	Construction	C.1 Well Drilling	31120.53376	1439.793387
	1000	0.69%	0.60%	No Reduct	No Reduct	0.93%	0.93%	2026	001000	Construction	C.1 Well Drilling	248.7099637	22.54780152
	2000	3.44%	3.02%	No Reduct	No Reduct	4.68%	4.68%	2026	002000	Construction	C.1 Well Drilling	324.8772241	29.55905691
	3000	2.48%	2.19%	No Reduct	No Reduct	3.40%	3.40%	2026	003000	Construction	C.1 Well Drilling	401.0444845	36.5703123
	4000	0.48%	0.43%	No Reduct	No Reduct	0.67%	0.67%	2026	004000	Construction	C.1 Well Drilling	477.2117449	43.58156769
	5000	0.81%	0.72%	No Reduct	No Reduct	1.12%	1.12%	2026	005000	Construction	C.1 Well Drilling	629.5462656	57.60407848
	6000	0.11%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2026	006000	Construction	C.1 Well Drilling	2751.246266	132.6260497
	7000	0.07%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2026	007000	Construction	C.1 Well Drilling	3297.453882	158.8484526
2026	8000	0.03%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2026	008000	Construction	C.1 Well Drilling	4116.765307	198.1820569
	9000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2026	009000	Construction	C.1 Well Drilling	4936.076732	237.5156612
	10000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2026	010000	Construction	C.1 Well Drilling	6301.595774	303.0716684
	11000	0.03%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2026	011000	Construction	C.1 Well Drilling	9527.043073	450.2183429
	12000	0.04%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2026	012000	Construction	C.1 Well Drilling	11903.7518	562.3944198
	13000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2026	013000	Construction	C.1 Well Drilling	14619.99034	690.5956505
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2026	014000	Construction	C.1 Well Drilling	18015.28851	850.8471889
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2026	015000	Construction	C.1 Well Drilling	22089.64632	1043.149035
	1000	0.69%	0.60%	No Reduct	No Reduct	0.93%	0.93%	2027	001000	Construction	C.1 Well Drilling	237.4394104	22.28579071

16846.89225	19.81478506	454.6487994	418.2768955	2023	012000	Construction	C.1 Well Drilling	7.368647834	0.346952723	No Reduction	No Reduction
20689.6613	24.3344225	558.2660815	513.604795	2023	013000	Construction	C.1 Well Drilling	7.950384506	0.374386863	No Reduction	No Reduction
25493.12261	29.9839693	687.7876841	632.7646694	2023	014000	Construction	C.1 Well Drilling	2.7224517	0.128213565	No Reduction	No Reduction
31257.27618	36.76342545	843.2136073	775.7565187	2023	015000	Construction	C.1 Well Drilling	0.667853172	0.031454851	No Reduction	No Reduction
650.4930445	0.766405804	10.7065109	9.849990027	2024	001000	Construction	C.1 Well Drilling	1.931198698	0.142222847	No Reduction	No Reduction
855.7315035	1.008083983	13.88905201	12.77792785	2024	002000	Construction	C.1 Well Drilling	12.53736698	0.931630778	No Reduction	No Reduction
1060.969963	1.249762162	17.07159313	15.70586568	2024	003000	Construction	C.1 Well Drilling	11.16304186	0.834132832	No Reduction	No Reduction
1266.208422	1.491440341	20.25413424	18.6338035	2024	004000	Construction	C.1 Well Drilling	2.58765873	0.194090227	No Reduction	No Reduction
1676.68534	1.974796699	26.61921647	24.48967915	2024	005000	Construction	C.1 Well Drilling	5.731981473	0.43201217	No Reduction	No Reduction
3961.954751	4.661204512	105.3744057	96.94445324	2024	006000	Construction	C.1 Well Drilling	4.151711357	0.197059814	No Reduction	No Reduction
4747.390168	5.585171161	126.2175093	116.1201086	2024	007000	Construction	C.1 Well Drilling	3.013431964	0.143097038	No Reduction	No Reduction
5925.543293	6.971121135	157.4821648	144.8835916	2024	008000	Construction	C.1 Well Drilling	1.71348912	0.08140488	No Reduction	No Reduction
7103.696418	8.357071108	188.7468202	173.6470746	2024	009000	Construction	C.1 Well Drilling	3.044714591	0.144693726	No Reduction	No Reduction
9067.284959	10.66698773	240.8545793	221.5862129	2024	010000	Construction	C.1 Well Drilling	3.471812114	0.165046289	No Reduction	No Reduction
13484.46933	15.8601023	360.6164814	331.7671629	2024	011000	Construction	C.1 Well Drilling	4.445558669	0.212050743	No Reduction	No Reduction
16846.89225	19.81478506	450.4808799	414.4424095	2024	012000	Construction	C.1 Well Drilling	7.351554054	0.350727723	No Reduction	No Reduction
20689.6613	24.3344225	553.1830496	508.9284056	2024	013000	Construction	C.1 Well Drilling	7.932097818	0.378474658	No Reduction	No Reduction
25493.12261	29.9839693	681.5607616	627.0359007	2024	014000	Construction	C.1 Well Drilling	2.716234075	0.129617529	No Reduction	No Reduction
31257.27618	36.76342545	835.6140162	768.7648949	2024	015000	Construction	C.1 Well Drilling	0.666336535	0.031800077	No Reduction	No Reduction
650.4930445	0.766405804	9.567177173	8.801802999	2025	001000	Construction	C.1 Well Drilling	1.796331517	0.137519821	No Reduction	No Reduction
855.7315035	1.008083983	12.43192262	11.43736881	2025	002000	Construction	C.1 Well Drilling	11.64567482	0.900204237	No Reduction	No Reduction
1060.969963	1.249762162	15.29666807	14.07293462	2025	003000	Construction	C.1 Well Drilling	10.37697934	0.80695435	No Reduction	No Reduction
1266.208422	1.491440341	18.16141351	16.70850043	2025	004000	Construction	C.1 Well Drilling	2.401665331	0.187525762	No Reduction	No Reduction
1676.68534	1.974796699	23.8909044	21.97963205	2025	005000	Construction	C.1 Well Drilling	5.321186272	0.417649475	No Reduction	No Reduction
3961.954751	4.661204512	103.286051	95.02316693	2025	006000	Construction	C.1 Well Drilling	4.126447084	0.197819158	No Reduction	No Reduction
4747.390168	5.585171161	123.7486731	113.8487792	2025	007000	Construction	C.1 Well Drilling	3.049816363	0.146283228	No Reduction	No Reduction
5925.543293	6.971121135	154.4426061	142.0871976	2025	008000	Construction	C.1 Well Drilling	1.703359126	0.081744301	No Reduction	No Reduction
7103.696418	8.357071108	185.1365392	170.325616	2025	009000	Construction	C.1 Well Drilling	3.026890933	0.145312348	No Reduction	No Reduction
9067.284959	10.66698773	236.2930943	217.3896467	2025	010000	Construction	C.1 Well Drilling	3.451707217	0.16577096	No Reduction	No Reduction
13484.46933	15.8601023	355.2807659	326.8583046	2025	011000	Construction	C.1 Well Drilling	4.426142337	0.213508896	No Reduction	No Reduction
16846.89225	19.81478506	443.8577221	408.3491044	2025	012000	Construction	C.1 Well Drilling	7.319669692	0.353159505	No Reduction	No Reduction
20689.6613	24.3344225	545.0885293	501.481447	2025	013000	Construction	C.1 Well Drilling	7.897875666	0.381114922	No Reduction	No Reduction
25493.12261	29.9839693	671.6270382	617.8968752	2025	014000	Construction	C.1 Well Drilling	2.704566114	0.130526303	No Reduction	No Reduction
31257.27618	36.76342545	823.473249	757.5953891	2025	015000	Construction	C.1 Well Drilling	0.663484116	0.032023921	No Reduction	No Reduction
650.4930445	0.766405804	8.829692143	8.123316771	2026	001000	Construction	C.1 Well Drilling	1.720476101	0.136045109	No Reduction	No Reduction
855.7315035	1.008083983	11.49217578	10.57280172	2026	002000	Construction	C.1 Well Drilling	11.1745675	0.892531621	No Reduction	No Reduction
1060.969963	1.249762162	14.15465942	13.02228666	2026	003000	Construction	C.1 Well Drilling	9.965883481	0.800956215	No Reduction	No Reduction
1266.208422	1.491440341	16.81714305	15.47177161	2026	004000	Construction	C.1 Well Drilling	2.313502822	0.18672388	No Reduction	No Reduction
1676.68534	1.974796699	22.14211033	20.3707415	2026	005000	Construction	C.1 Well Drilling	5.104418093	0.414204694	No Reduction	No Reduction
3961.954751	4.661204512	61.34753113	56.43972864	2026	006000	Construction	C.1 Well Drilling	2.940937533	0.144587702	No Reduction	No Reduction
4747.390168	5.585171161	73.44858911	67.57270198	2026	007000	Construction	C.1 Well Drilling	2.172994035	0.106875022	No Reduction	No Reduction
5925.543293	6.971121135	91.60017608	84.27216199	2026	008000	Construction	C.1 Well Drilling	1.213294194	0.059697649	No Reduction	No Reduction
7103.696418	8.357071108	109.751763	100.971622	2026	009000	Construction	C.1 Well Drilling	2.155625054	0.106091508	No Reduction	No Reduction
9067.284959	10.66698773	140.004408	128.8040554	2026	010000	Construction	C.1 Well Drilling	2.457647316	0.120991268	No Reduction	No Reduction
13484.46933	15.8601023	208.1908107	191.5355459	2026	011000	Construction	C.1 Well Drilling	3.13794341	0.154526828	No Reduction	No Reduction
16846.89225	19.81478506	260.0279531	239.2257169	2026	012000	Construction	C.1 Well Drilling	5.188804381	0.255559807	No Reduction	No Reduction
20689.6613	24.3344225	319.2704015	293.7287694	2026	013000	Construction	C.1 Well Drilling	5.753771713	0.283418023	No Reduction	No Reduction
25493.12261	29.9839693	393.3234621	361.8575851	2026	014000	Construction	C.1 Well Drilling	1.916962883	0.094434252	No Reduction	No Reduction
31257.27618	36.76342545	482.1871347	443.6121639	2026	015000	Construction	C.1 Well Drilling	0.470246077	0.023167204	No Reduction	No Reduction
650.4930445	0.766405804	8.101693118	7.453557668	2027	001000	Construction	C.1 Well Drilling	1.645069339	0.134673678	No Reduction	No Reduction

0.347779862	0.319957477	41	2023	0.15105728	0.00711253	No Reduction	No Reduction	0.00712949	0.00655913
0.375336728	0.345309791	36	2023	0.14310692	0.00673896	No Reduction	No Reduction	0.00675606	0.00621558
0.128555097	0.118270691	10	2023	0.01361226	0.00064107	No Reduction	No Reduction	0.00064278	0.00059135
0.031541808	0.029018464	2	2023	0.00066785	3.1455E-05	No Reduction	No Reduction	3.1542E-05	2.9018E-05
0.099645103	0.091673494	327	2024	0.31575099	0.02325344	No Reduction	No Reduction	0.01629197	0.01498862
0.65024925	0.598229386	1599	2024	10.0236249	0.74483881	No Reduction	No Reduction	0.51987428	0.47828439
0.580829715	0.534363288	1142	2024	6.3740969	0.47628985	No Reduction	No Reduction	0.33165377	0.30512144
0.134934121	0.124139386	221	2024	0.28593629	0.02144697	No Reduction	No Reduction	0.01491022	0.0137174
0.299728812	0.275750483	368	2024	1.05468459	0.07949024	No Reduction	No Reduction	0.0551501	0.05073809
0.19013492	0.174924113	91	2024	0.18890287	0.00896622	No Reduction	No Reduction	0.00865114	0.00795905
0.138151143	0.127099049	55	2024	0.08286938	0.00393517	No Reduction	No Reduction	0.00379916	0.00349522
0.078638688	0.072347594	25	2024	0.02141861	0.00101756	No Reduction	No Reduction	0.00098298	0.00090434
0.13983352	0.128646832	37	2024	0.05632722	0.00267683	No Reduction	No Reduction	0.00258692	0.00237997
0.159572992	0.146807153	33	2024	0.0572849	0.00272326	No Reduction	No Reduction	0.00263295	0.00242232
0.207980153	0.191341746	31	2024	0.06890616	0.00328679	No Reduction	No Reduction	0.00322369	0.0029658
0.344077075	0.316550913	41	2024	0.15070686	0.00718992	No Reduction	No Reduction	0.00705358	0.00648929
0.371363895	0.341654784	36	2024	0.14277776	0.00681254	No Reduction	No Reduction	0.00668455	0.00614979
0.127200986	0.117024909	10	2024	0.01358117	0.00064809	No Reduction	No Reduction	0.000636	0.00058512
0.031210857	0.028713988	2	2024	0.00066634	3.18E-05	No Reduction	No Reduction	3.1211E-05	2.8714E-05
0.089180493	0.082046052	328	2025	0.29459837	0.02255325	No Reduction	No Reduction	0.0146256	0.01345555
0.581889315	0.535338238	1601	2025	9.32236269	0.72061349	No Reduction	No Reduction	0.4658024	0.42853826
0.520575228	0.478929166	1144	2025	5.93563218	0.46157789	No Reduction	No Reduction	0.29776903	0.27394748
0.120811898	0.111146941	221	2025	0.26538402	0.0207216	No Reduction	No Reduction	0.01334971	0.01228174
0.268607278	0.247118674	368	2025	0.97909827	0.0768475	No Reduction	No Reduction	0.04942374	0.04546984
0.186088863	0.171201741	91	2025	0.18775334	0.00900077	No Reduction	No Reduction	0.00846704	0.00778968
0.137705957	0.126689477	56	2025	0.08539486	0.00409593	No Reduction	No Reduction	0.00385577	0.00354731
0.077005894	0.070845423	25	2025	0.02129199	0.0010218	No Reduction	No Reduction	0.00096257	0.00088557
0.136954323	0.125997972	37	2025	0.05599748	0.00268828	No Reduction	No Reduction	0.00253365	0.00233096
0.156317453	0.143812057	33	2025	0.05695317	0.00273522	No Reduction	No Reduction	0.00257924	0.0023729
0.204597337	0.188229555	31	2025	0.06860521	0.00330939	No Reduction	No Reduction	0.00317126	0.00291756
0.338512815	0.311431794	41	2025	0.15005323	0.00723977	No Reduction	No Reduction	0.00693951	0.00638435
0.365384245	0.336153506	36	2025	0.14216176	0.00686007	No Reduction	No Reduction	0.00657692	0.00605076
0.125160137	0.115147328	10	2025	0.01352283	0.00065263	No Reduction	No Reduction	0.0006258	0.00057574
0.030711528	0.028254606	2	2025	0.00066348	3.2024E-05	No Reduction	No Reduction	3.0712E-05	2.8255E-05
0.082183482	0.075608802	328	2026	0.28215808	0.0223114	No Reduction	No Reduction	0.01347809	0.01239984
0.537773578	0.494751755	1603	2026	8.95641585	0.71536409	No Reduction	No Reduction	0.43102552	0.39654353
0.481834174	0.443287399	1146	2026	5.71045123	0.45894791	No Reduction	No Reduction	0.27609098	0.25400368
0.112208539	0.103231851	222	2026	0.25679881	0.02072635	No Reduction	No Reduction	0.01245515	0.01145874
0.248574813	0.228688808	368	2026	0.93921293	0.07621366	No Reduction	No Reduction	0.04573777	0.04207874
0.110364328	0.101535174	91	2026	0.13381266	0.00657874	No Reduction	No Reduction	0.00502158	0.00461985
0.081610974	0.075082094	56	2026	0.06084383	0.0029925	No Reduction	No Reduction	0.00228511	0.0021023
0.04560433	0.041955984	25	2026	0.01516618	0.00074622	No Reduction	No Reduction	0.00057005	0.00052445
0.081067735	0.074582312	37	2026	0.03987906	0.00196269	No Reduction	No Reduction	0.00149975	0.00137977
0.092480693	0.085082238	33	2026	0.04055118	0.00199636	No Reduction	No Reduction	0.00152593	0.00140386
0.119713399	0.11013633	31	2026	0.04863812	0.00239517	No Reduction	No Reduction	0.00185556	0.00170711
0.198017831	0.182176406	41	2026	0.10637049	0.00523898	No Reduction	No Reduction	0.00405937	0.00373462
0.219630971	0.202060494	37	2026	0.10644478	0.00524323	No Reduction	No Reduction	0.00406317	0.00373812
0.073188128	0.067333079	10	2026	0.00958481	0.00047217	No Reduction	No Reduction	0.00036594	0.00033667
0.01795645	0.016519934	2	2026	0.00047025	2.3167E-05	No Reduction	No Reduction	1.7956E-05	1.652E-05
0.075524995	0.069482995	329	2027	0.27061391	0.02215382	No Reduction	No Reduction	0.01242386	0.01142995

0.165299299	41	0.00403169	28.11700752	2023
0.156601946	36	0.004350054	30.33727694	2023
0.014896102	10	0.00148961	10.3885414	2023
0.00073085	2	0.000365425	2.548473362	2023
0.355296397	327	0.001086533	7.577483402	2024
11.28833798	1599	0.007059624	49.23381431	2024
7.182040515	1142	0.006289002	43.85950136	2024
0.32229348	221	0.001458342	10.17047389	2024
1.189324932	368	0.003231861	22.5390002	2024
0.206520227	91	0.002269453	15.82716554	2024
0.090603704	55	0.00164734	11.48854967	2024
0.023419159	25	0.000936766	6.533008486	2024
0.061590974	37	0.001664621	11.60906629	2024
0.062641118	33	0.001898216	13.23815627	2024
0.075416638	31	0.002432795	16.96631081	2024
0.164950356	41	0.004023179	28.05765332	2024
0.156274855	36	0.004340968	30.27391212	2024
0.014865263	10	0.001486526	10.36703438	2024
0.000729347	2	0.000364674	2.543234623	2024
0.33177722	328	0.001011516	7.054311995	2025
10.50877858	1601	0.006563884	45.7765283	2025
6.694979104	1144	0.005852254	40.81362261	2025
0.299455331	221	0.001355001	9.449780432	2025
1.105369517	368	0.003003722	20.94795383	2025
0.205221157	91	0.002255178	15.72760825	2025
0.093346555	56	0.001666903	11.62497995	2025
0.023276367	25	0.000931055	6.493175201	2025
0.061219416	37	0.001654579	11.53903257	2025
0.062267628	33	0.001886898	13.15922536	2025
0.075085853	31	0.002422124	16.89189477	2025
0.164232511	41	0.004005671	27.9355496	2025
0.155598747	36	0.004322187	30.14293504	2025
0.014801263	10	0.001480126	10.32240066	2025
0.00072622	2	0.00036311	2.532327624	2025
0.317947569	328	0.000969352	6.76026326	2026
10.10280547	1603	0.006302436	43.95319111	2026
6.445490127	1146	0.005624337	39.22412578	2026
0.289980312	222	0.001306218	9.109561686	2026
1.061164358	368	0.002883599	20.11021803	2026
0.145412975	91	0.001597945	11.14406691	2026
0.066121441	56	0.00118074	8.234480866	2026
0.016482452	25	0.000659298	4.597944855	2026
0.043341509	37	0.001171392	8.169288844	2026
0.044073468	33	0.00133556	9.314192919	2026
0.052888846	31	0.001706092	11.89828434	2026
0.115668831	41	0.002821191	19.6749861	2026
0.115751183	37	0.00312841	21.81753381	2026
0.010422926	10	0.001042293	7.268948811	2026
0.00051137	2	0.000255685	1.783146252	2026
0.305191588	329	0.000927634	6.469319558	2027

	2000	3.44%	3.02%	No Reduct	No Reduct	4.68%	4.68%	2027	002000	Construction	C.1 Well Drilling	310.3226543	29.23918253
	3000	2.49%	2.19%	No Reduct	No Reduct	3.40%	3.40%	2027	003000	Construction	C.1 Well Drilling	383.2058981	36.19257436
	4000	0.48%	0.43%	No Reduct	No Reduct	0.67%	0.67%	2027	004000	Construction	C.1 Well Drilling	456.089142	43.14596618
	5000	0.81%	0.72%	No Reduct	No Reduct	1.12%	1.12%	2027	005000	Construction	C.1 Well Drilling	601.8556298	57.05274983
	6000	0.11%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2027	006000	Construction	C.1 Well Drilling	2732.765427	134.013557
	7000	0.07%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2027	007000	Construction	C.1 Well Drilling	3275.560577	160.5311453
2027	8000	0.03%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2027	008000	Construction	C.1 Well Drilling	4089.753302	200.3075278
	9000	0.04%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2027	009000	Construction	C.1 Well Drilling	4903.946026	240.0839103
	10000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2027	010000	Construction	C.1 Well Drilling	6260.9339	306.3778812
	11000	0.03%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2027	011000	Construction	C.1 Well Drilling	9482.797117	456.3735298
	12000	0.04%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2027	012000	Construction	C.1 Well Drilling	11848.79898	570.1105084
	13000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2027	013000	Construction	C.1 Well Drilling	14552.8011	700.0956269
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2027	014000	Construction	C.1 Well Drilling	17932.80376	862.5770249
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2027	015000	Construction	C.1 Well Drilling	21988.80695	1057.554703
	1000	0.69%	0.60%	No Reduct	No Reduct	0.93%	0.93%	2028	001000	Construction	C.1 Well Drilling	220.3047946	21.91287962
	2000	3.44%	3.02%	No Reduct	No Reduct	4.68%	4.68%	2028	002000	Construction	C.1 Well Drilling	287.738463	28.7537402
	3000	2.49%	2.19%	No Reduct	No Reduct	3.41%	3.41%	2028	003000	Construction	C.1 Well Drilling	355.1721314	35.59460077
	4000	0.48%	0.43%	No Reduct	No Reduct	0.67%	0.67%	2028	004000	Construction	C.1 Well Drilling	422.6057999	42.43546135
	5000	0.81%	0.72%	No Reduct	No Reduct	1.12%	1.12%	2028	005000	Construction	C.1 Well Drilling	557.4731368	56.11718251
	6000	0.11%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2028	006000	Construction	C.1 Well Drilling	2729.804588	136.2304136
	7000	0.07%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2028	007000	Construction	C.1 Well Drilling	3272.164748	163.1984367
2028	8000	0.03%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2028	008000	Construction	C.1 Well Drilling	4085.704988	203.6504715
	9000	0.04%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2028	009000	Construction	C.1 Well Drilling	4899.245228	244.1025062
	10000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2028	010000	Construction	C.1 Well Drilling	6255.145627	311.522564
	11000	0.03%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2028	011000	Construction	C.1 Well Drilling	9482.668135	464.5924702
	12000	0.04%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2028	012000	Construction	C.1 Well Drilling	11848.83422	580.3930133
	13000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2028	013000	Construction	C.1 Well Drilling	14553.02403	712.7364911
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2028	014000	Construction	C.1 Well Drilling	17933.2613	878.1658384
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2028	015000	Construction	C.1 Well Drilling	21989.54602	1076.681055
	1000	0.69%	0.60%	No Reduct	No Reduct	0.93%	0.93%	2029	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	3.44%	3.02%	No Reduct	No Reduct	4.68%	4.68%	2029	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	2.49%	2.19%	No Reduct	No Reduct	3.41%	3.41%	2029	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.48%	0.43%	No Reduct	No Reduct	0.66%	0.66%	2029	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	0.81%	0.72%	No Reduct	No Reduct	1.12%	1.12%	2029	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.11%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2029	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.07%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2029	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2029	8000	0.03%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2029	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.04%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2029	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2029	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.03%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2029	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.04%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2029	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2029	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2029	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2029	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	0.69%	0.60%	No Reduct	No Reduct	0.93%	0.93%	2030	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	3.44%	3.02%	No Reduct	No Reduct	4.68%	4.68%	2030	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	2.49%	2.19%	No Reduct	No Reduct	3.40%	3.40%	2030	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.48%	0.43%	No Reduct	No Reduct	0.67%	0.67%	2030	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	0.81%	0.72%	No Reduct	No Reduct	1.13%	1.13%	2030	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.11%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2030	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451

855.7315035	1.008083983	10.56198754	9.71702854	2027	002000	Construction	C.1 Well Drilling	10.66472519	0.882110505	No Reduction	No Reduction
1060.969963	1.249762162	13.02228197	11.98049941	2027	003000	Construction	C.1 Well Drilling	9.525035461	0.792885984	No Reduction	No Reduction
1266.208422	1.491440341	15.48257639	14.24397028	2027	004000	Construction	C.1 Well Drilling	2.207814248	0.184582746	No Reduction	No Reduction
1676.68534	1.974796699	20.40316524	18.77091203	2027	005000	Construction	C.1 Well Drilling	4.885886237	0.410743595	No Reduction	No Reduction
3961.954751	4.661204512	59.61227168	54.84328995	2027	006000	Construction	C.1 Well Drilling	2.916839799	0.145883154	No Reduction	No Reduction
4747.390168	5.585171161	71.39056405	65.67931893	2027	007000	Construction	C.1 Well Drilling	2.155357564	0.107846591	No Reduction	No Reduction
5925.543293	6.971121135	89.05800261	81.9333624	2027	008000	Construction	C.1 Well Drilling	1.203541336	0.060248197	No Reduction	No Reduction
7103.696418	8.357071108	106.7254412	98.18740587	2027	009000	Construction	C.1 Well Drilling	2.196204429	0.109973283	No Reduction	No Reduction
9067.284959	10.66698773	136.1711721	125.2774783	2027	010000	Construction	C.1 Well Drilling	2.438159011	0.122129333	No Reduction	No Reduction
13484.46933	15.8601023	203.5993388	187.3113917	2027	011000	Construction	C.1 Well Drilling	3.118726755	0.156406587	No Reduction	No Reduction
16846.89225	19.81478506	254.3189711	233.9734534	2027	012000	Construction	C.1 Well Drilling	5.157172464	0.258680971	No Reduction	No Reduction
20689.6613	24.3344225	312.2842651	287.3015239	2027	013000	Construction	C.1 Well Drilling	5.718814683	0.286889649	No Reduction	No Reduction
25493.12261	29.9839693	384.7408826	353.961612	2027	014000	Construction	C.1 Well Drilling	1.905349133	0.095593806	No Reduction	No Reduction
31257.27618	36.76342545	471.6888236	433.9537177	2027	015000	Construction	C.1 Well Drilling	0.467403515	0.023452221	No Reduction	No Reduction
650.4930445	0.766405804	7.431979033	6.83742071	2028	001000	Construction	C.1 Well Drilling	1.524088549	0.132223599	No Reduction	No Reduction
855.7315035	1.008083983	9.688992596	8.913873189	2028	002000	Construction	C.1 Well Drilling	9.89852846	0.868337668	No Reduction	No Reduction
1060.969963	1.249762162	11.94600616	10.99032567	2028	003000	Construction	C.1 Well Drilling	8.830475674	0.779984895	No Reduction	No Reduction
1266.208422	1.491440341	14.20301972	13.06677815	2028	004000	Construction	C.1 Well Drilling	2.042692997	0.18127365	No Reduction	No Reduction
1676.68534	1.974796699	18.71704685	17.2196831	2028	005000	Construction	C.1 Well Drilling	4.518869675	0.403408389	No Reduction	No Reduction
3961.954751	4.661204512	58.97986828	54.26147881	2028	006000	Construction	C.1 Well Drilling	2.909354417	0.148076224	No Reduction	No Reduction
4747.390168	5.585171161	70.64365426	64.99216192	2028	007000	Construction	C.1 Well Drilling	2.149926943	0.109475758	No Reduction	No Reduction
5925.543293	6.971121135	88.13933324	81.08818658	2028	008000	Construction	C.1 Well Drilling	1.200565205	0.061162757	No Reduction	No Reduction
7103.696418	8.357071108	105.6350122	97.18421124	2028	009000	Construction	C.1 Well Drilling	2.190842252	0.11164807	No Reduction	No Reduction
9067.284959	10.66698773	134.7944772	124.010919	2028	010000	Construction	C.1 Well Drilling	2.432289026	0.123995789	No Reduction	No Reduction
13484.46933	15.8601023	202.0884447	185.9213691	2028	011000	Construction	C.1 Well Drilling	3.114054918	0.158986998	No Reduction	No Reduction
16846.89225	19.81478506	252.4453213	232.2496956	2028	012000	Construction	C.1 Well Drilling	5.149532404	0.262955622	No Reduction	No Reduction
20689.6613	24.3344225	309.9960374	285.1963544	2028	013000	Construction	C.1 Well Drilling	5.710413072	0.291636151	No Reduction	No Reduction
25493.12261	29.9839693	381.9344325	351.3796779	2028	014000	Construction	C.1 Well Drilling	1.902569349	0.097176947	No Reduction	No Reduction
31257.27618	36.76342545	468.2605067	430.7996662	2028	015000	Construction	C.1 Well Drilling	0.466725382	0.023840923	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2029	001000	Construction	C.1 Well Drilling	1.472204097	0.128831641	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2029	002000	Construction	C.1 Well Drilling	9.543340608	0.844458333	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2029	003000	Construction	C.1 Well Drilling	8.517218464	0.758861299	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2029	004000	Construction	C.1 Well Drilling	1.966713527	0.176050458	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2029	005000	Construction	C.1 Well Drilling	4.362308365	0.392824473	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2029	006000	Construction	C.1 Well Drilling	2.904232145	0.149899828	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2029	007000	Construction	C.1 Well Drilling	2.146212503	0.110830433	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2029	008000	Construction	C.1 Well Drilling	1.198530587	0.061923212	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2029	009000	Construction	C.1 Well Drilling	2.187177668	0.113040636	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2029	010000	Construction	C.1 Well Drilling	2.428278918	0.125547703	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2029	011000	Construction	C.1 Well Drilling	3.111649063	0.161249359	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2029	012000	Construction	C.1 Well Drilling	5.145614427	0.266703187	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2029	013000	Construction	C.1 Well Drilling	5.706118269	0.295797208	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2029	014000	Construction	C.1 Well Drilling	1.901152161	0.098564773	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2029	015000	Construction	C.1 Well Drilling	0.466380403	0.02418166	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2030	001000	Construction	C.1 Well Drilling	1.470025205	0.128640968	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2030	002000	Construction	C.1 Well Drilling	9.546972579	0.844779714	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2030	003000	Construction	C.1 Well Drilling	8.511995289	0.758395928	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2030	004000	Construction	C.1 Well Drilling	1.97264871	0.176581746	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2030	005000	Construction	C.1 Well Drilling	4.367624635	0.393303202	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2030	006000	Construction	C.1 Well Drilling	2.899933824	0.149677973	No Reduction	No Reduction

0.493818757	0.454313314	1604		2027	8.5531096	0.70745263	No Reduction	No Reduction	0.39604264	0.36435928
0.443400755	0.407928657	1148		2027	5.46737035	0.45511655	No Reduction	No Reduction	0.25451203	0.23415105
0.103150374	0.09489834	222		2027	0.24506738	0.02048868	No Reduction	No Reduction	0.01144969	0.01053372
0.229333814	0.210987091	369		2027	0.90144601	0.07578219	No Reduction	No Reduction	0.04231209	0.03892712
0.107083164	0.098516503	91		2027	0.13271621	0.00663768	No Reduction	No Reduction	0.00487228	0.0044825
0.079206314	0.072869807	56		2027	0.06035001	0.0030197	No Reduction	No Reduction	0.00221778	0.00204035
0.044272761	0.040730941	25		2027	0.01504427	0.0007531	No Reduction	No Reduction	0.00055341	0.00050914
0.080842596	0.074375185	38		2027	0.04172788	0.00208949	No Reduction	No Reduction	0.00153601	0.00141313
0.089814908	0.082629716	33		2027	0.04022962	0.00201513	No Reduction	No Reduction	0.00148195	0.00136339
0.116899178	0.107547247	31		2027	0.04834026	0.0024243	No Reduction	No Reduction	0.00181194	0.00166698
0.193382383	0.177911794	41		2027	0.10572204	0.00530296	No Reduction	No Reduction	0.00396434	0.00364719
0.214505738	0.19734528	37		2027	0.10579807	0.00530746	No Reduction	No Reduction	0.00396836	0.00365089
0.071484685	0.065765912	10		2027	0.00952675	0.00047797	No Reduction	No Reduction	0.00035742	0.00032883
0.017539384	0.016136233	2		2027	0.0004674	2.3452E-05	No Reduction	No Reduction	1.7539E-05	1.6136E-05
0.069178994	0.063644674	329		2028	0.25071257	0.02175078	No Reduction	No Reduction	0.01137994	0.01046955
0.453458016	0.417181428	1608		2028	7.95841688	0.69814349	No Reduction	No Reduction	0.36458024	0.33541387
0.406858008	0.374309333	1150		2028	5.07752351	0.44849131	No Reduction	No Reduction	0.23394335	0.21522787
0.094485054	0.086926246	222		2028	0.22673892	0.02012138	No Reduction	No Reduction	0.01048784	0.00964881
0.210069365	0.193263799	369		2028	0.83373145	0.07442885	No Reduction	No Reduction	0.0387578	0.03565717
0.105789891	0.097326692	91		2028	0.13237563	0.00673747	No Reduction	No Reduction	0.00481344	0.00442836
0.078261289	0.072000384	56		2028	0.06019795	0.00306532	No Reduction	No Reduction	0.00219132	0.00201601
0.043751029	0.040250947	25		2028	0.01500707	0.00076453	No Reduction	No Reduction	0.00054689	0.00050314
0.079897838	0.073506008	38		2028	0.041626	0.00212131	No Reduction	No Reduction	0.00151806	0.00139661
0.088774902	0.08167291	33		2028	0.04013277	0.00204593	No Reduction	No Reduction	0.00146479	0.0013476
0.11585944	0.106590688	31		2028	0.04826785	0.0024643	No Reduction	No Reduction	0.00179582	0.00165216
0.191672728	0.176338912	41		2028	0.10556541	0.00539059	No Reduction	No Reduction	0.00392929	0.00361495
0.212617889	0.195608459	37		2028	0.10564264	0.00539527	No Reduction	No Reduction	0.00393343	0.00361876
0.070857909	0.065189278	10		2028	0.00951285	0.00048588	No Reduction	No Reduction	0.00035429	0.00032595
0.017386058	0.015995174	2		2028	0.00046673	2.3841E-05	No Reduction	No Reduction	1.7386E-05	1.5995E-05
0.066634588	0.06130382	330		2029	0.24291368	0.02125722	No Reduction	No Reduction	0.01099471	0.01011513
0.436356724	0.401448237	1610		2029	7.68238919	0.67978896	No Reduction	No Reduction	0.35126716	0.32316583
0.391908264	0.360555569	1152		2029	4.90591784	0.43710411	No Reduction	No Reduction	0.22573916	0.20768001
0.090886947	0.083615987	222		2029	0.2183052	0.0195416	No Reduction	No Reduction	0.01008845	0.00928137
0.202707478	0.186490863	370		2029	0.80702705	0.07267253	No Reduction	No Reduction	0.03750088	0.03450081
0.104980332	0.096581898	91		2029	0.13214256	0.00682044	No Reduction	No Reduction	0.00477661	0.00439448
0.077672177	0.071458401	56		2029	0.06009395	0.00310325	No Reduction	No Reduction	0.00217482	0.00200084
0.043427182	0.039953009	25		2029	0.01498163	0.00077404	No Reduction	No Reduction	0.00054284	0.00049941
0.079313137	0.072968083	38		2029	0.04155638	0.00214777	No Reduction	No Reduction	0.00150695	0.00138639
0.088133356	0.081082688	33		2029	0.0400666	0.00207154	No Reduction	No Reduction	0.0014542	0.00133786
0.11528935	0.106066205	31		2029	0.04823056	0.00249937	No Reduction	No Reduction	0.00178698	0.00164403
0.190738321	0.175479258	41		2029	0.1054851	0.00546742	No Reduction	No Reduction	0.00391014	0.00359732
0.211588585	0.194661499	37		2029	0.10556319	0.00547225	No Reduction	No Reduction	0.00391439	0.00360124
0.070516864	0.064875516	10		2029	0.00950576	0.00049282	No Reduction	No Reduction	0.00035258	0.00032438
0.017302764	0.015918544	2		2029	0.00046638	2.4182E-05	No Reduction	No Reduction	1.7303E-05	1.5919E-05
0.066535967	0.061213089	330		2030	0.24255416	0.02122576	No Reduction	No Reduction	0.01097843	0.01010016
0.436522791	0.401601018	1613		2030	7.69963338	0.68131484	No Reduction	No Reduction	0.35205563	0.32389122
0.391667926	0.360334459	1153		2030	4.90716528	0.43721525	No Reduction	No Reduction	0.22579656	0.20773282
0.091161227	0.083868325	223		2030	0.21995033	0.01968886	No Reduction	No Reduction	0.01016448	0.00935132
0.202954514	0.186718137	371		2030	0.81019437	0.07295774	No Reduction	No Reduction	0.03764806	0.03463621
0.104824959	0.096438955	91		2030	0.13194699	0.00681035	No Reduction	No Reduction	0.00476954	0.00438797

9.656604872	1604	0.006020327	41.98576208	2027
6.176998943	1148	0.005380661	37.52473051	2027
0.277005758	222	0.001247774	8.701973673	2027
1.019540293	369	0.002762982	19.26903523	2027
0.144226178	91	0.001584903	11.05311393	2027
0.065587493	56	0.001171205	8.167985304	2027
0.016350779	25	0.000654031	4.561213219	2027
0.045353386	38	0.00119351	8.323539814	2027
0.043726704	33	0.001325052	9.24091004	2027
0.052576504	31	0.001696016	11.8280174	2027
0.114989334	41	0.002804618	19.5594053	2027
0.115073886	37	0.003110105	21.68987252	2027
0.010362138	10	0.001036214	7.226555127	2027
0.000508395	2	0.000254198	1.772773784	2027
0.283843293	329	0.000862746	6.016787613	2028
9.021140612	1608	0.005610162	39.12527029	2028
5.759958182	1150	0.005008659	34.93038988	2028
0.257348139	222	0.001159226	8.084441081	2028
0.946918101	369	0.002566174	17.89649548	2028
0.143926534	91	0.00158161	11.03015	2028
0.065454592	56	0.001168832	8.151434331	2028
0.016318487	25	0.000652739	4.552205238	2028
0.045265375	38	0.001191194	8.307387516	2028
0.043643485	33	0.00132253	9.223323233	2028
0.052527971	31	0.001694451	11.81709903	2028
0.114885295	41	0.00280208	19.54170855	2028
0.114971342	37	0.003107334	21.67054422	2028
0.010353021	10	0.001035302	7.220196864	2028
0.000507952	2	0.000253976	1.771229888	2028
0.275165604	330	0.000833835	5.815166424	2029
8.71344531	1610	0.005412078	37.7438308	2029
5.568761103	1152	0.004833994	33.71227425	2029
0.247935253	222	0.001116825	7.788740797	2029
0.917200458	370	0.00247892	17.28798918	2029
0.14373961	91	0.001579556	11.01582461	2029
0.065372023	56	0.001167358	8.141151598	2029
0.016298512	25	0.00065194	4.546632983	2029
0.045211097	38	0.001189766	8.297426134	2029
0.04359234	33	0.00132098	9.212514443	2029
0.05251691	31	0.001694094	11.81461076	2029
0.114862647	41	0.002801528	19.53785604	2029
0.114949825	37	0.003106752	21.66648866	2029
0.010351169	10	0.001035117	7.218905252	2029
0.000507865	2	0.000253932	1.770924652	2029
0.274758353	330	0.000832601	5.806559863	2030
8.733003855	1613	0.005414138	37.75819522	2030
5.570177096	1153	0.00483103	33.69160023	2030
0.249803673	223	0.001120196	7.812245799	2030
0.920800176	371	0.002481941	17.30905776	2030
0.143526872	91	0.001577218	10.99952097	2030

	7000	0.07%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2030	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2030	8000	0.03%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2030	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.04%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2030	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2030	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.03%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2030	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.04%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2030	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2030	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2030	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2030	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	0.69%	0.60%	No Reduct	No Reduct	0.93%	0.93%	2031	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	3.44%	3.02%	No Reduct	No Reduct	4.68%	4.68%	2031	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	2.49%	2.19%	No Reduct	No Reduct	3.41%	3.41%	2031	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.48%	0.43%	No Reduct	No Reduct	0.67%	0.67%	2031	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	0.81%	0.72%	No Reduct	No Reduct	1.12%	1.12%	2031	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.11%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2031	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.07%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2031	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2031	8000	0.03%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2031	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.04%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2031	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2031	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.03%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2031	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.04%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2031	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2031	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2031	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2031	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	0.69%	0.61%	No Reduct	No Reduct	0.93%	0.93%	2032	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	3.44%	3.02%	No Reduct	No Reduct	4.68%	4.68%	2032	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	2.49%	2.19%	No Reduct	No Reduct	3.41%	3.41%	2032	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.48%	0.43%	No Reduct	No Reduct	0.67%	0.67%	2032	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	0.81%	0.72%	No Reduct	No Reduct	1.12%	1.12%	2032	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.11%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2032	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.07%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2032	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2032	8000	0.03%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2032	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.04%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2032	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2032	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.03%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2032	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.04%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2032	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2032	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2032	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2032	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	0.69%	0.60%	No Reduct	No Reduct	0.93%	0.93%	2033	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	3.43%	3.02%	No Reduct	No Reduct	4.67%	4.67%	2033	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	2.49%	2.19%	No Reduct	No Reduct	3.41%	3.41%	2033	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.48%	0.43%	No Reduct	No Reduct	0.67%	0.67%	2033	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	0.81%	0.72%	No Reduct	No Reduct	1.12%	1.12%	2033	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.11%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2033	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.07%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2033	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2033	8000	0.03%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2033	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.04%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2033	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2033	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.03%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2033	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126

4747.390168	5.585171161	70.21595899	64.59868227	2030	007000	Construction	C.1 Well Drilling	2.143036066	0.110666402	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2030	008000	Construction	C.1 Well Drilling	1.196756738	0.061831564	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2030	009000	Construction	C.1 Well Drilling	2.183940601	0.112873334	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2030	010000	Construction	C.1 Well Drilling	2.424685018	0.12536189	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2030	011000	Construction	C.1 Well Drilling	3.107043761	0.161010707	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2030	012000	Construction	C.1 Well Drilling	5.137998816	0.266308461	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2030	013000	Construction	C.1 Well Drilling	5.697673101	0.295359422	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2030	014000	Construction	C.1 Well Drilling	1.898338418	0.098418895	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2030	015000	Construction	C.1 Well Drilling	0.46569015	0.024145871	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2031	001000	Construction	C.1 Well Drilling	1.467852754	0.128450858	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2031	002000	Construction	C.1 Well Drilling	9.550593815	0.845100145	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2031	003000	Construction	C.1 Well Drilling	8.514159118	0.758588719	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2031	004000	Construction	C.1 Well Drilling	1.969733466	0.176320788	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2031	005000	Construction	C.1 Well Drilling	4.361170018	0.392721965	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2031	006000	Construction	C.1 Well Drilling	2.895648208	0.149456774	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2031	007000	Construction	C.1 Well Drilling	2.139869018	0.110502855	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2031	008000	Construction	C.1 Well Drilling	1.194988132	0.061740188	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2031	009000	Construction	C.1 Well Drilling	2.180713103	0.112706526	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2031	010000	Construction	C.1 Well Drilling	2.421101739	0.125176627	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2031	011000	Construction	C.1 Well Drilling	3.202531169	0.165958978	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2031	012000	Construction	C.1 Well Drilling	5.130405714	0.265914902	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2031	013000	Construction	C.1 Well Drilling	5.689252895	0.294922931	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2031	014000	Construction	C.1 Well Drilling	1.895532992	0.098273448	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2031	015000	Construction	C.1 Well Drilling	0.465001938	0.024110187	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2032	001000	Construction	C.1 Well Drilling	1.474569665	0.12903865	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2032	002000	Construction	C.1 Well Drilling	9.542401764	0.844375258	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2032	003000	Construction	C.1 Well Drilling	8.516316561	0.758780941	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2032	004000	Construction	C.1 Well Drilling	1.975646677	0.176850109	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2032	005000	Construction	C.1 Well Drilling	4.35473445	0.392142445	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2032	006000	Construction	C.1 Well Drilling	2.89137524	0.149236228	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2032	007000	Construction	C.1 Well Drilling	2.136711316	0.110339792	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2032	008000	Construction	C.1 Well Drilling	1.193224746	0.061649081	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2032	009000	Construction	C.1 Well Drilling	2.17749513	0.11254021	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2032	010000	Construction	C.1 Well Drilling	2.417529036	0.124991909	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2032	011000	Construction	C.1 Well Drilling	3.197805349	0.16571408	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2032	012000	Construction	C.1 Well Drilling	5.122835022	0.265522504	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2032	013000	Construction	C.1 Well Drilling	5.680857539	0.294487727	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2032	014000	Construction	C.1 Well Drilling	1.892735845	0.098128431	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2032	015000	Construction	C.1 Well Drilling	0.464315757	0.024074609	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2033	001000	Construction	C.1 Well Drilling	1.472758599	0.128880165	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2033	002000	Construction	C.1 Well Drilling	9.530681792	0.843338197	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2033	003000	Construction	C.1 Well Drilling	8.520560122	0.759159031	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2033	004000	Construction	C.1 Well Drilling	1.973220188	0.176632902	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2033	005000	Construction	C.1 Well Drilling	4.361109379	0.392716505	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2033	006000	Construction	C.1 Well Drilling	2.887824054	0.149052936	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2033	007000	Construction	C.1 Well Drilling	2.134087009	0.110204272	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2033	008000	Construction	C.1 Well Drilling	1.239429597	0.064036298	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2033	009000	Construction	C.1 Well Drilling	2.174820732	0.112401989	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2033	010000	Construction	C.1 Well Drilling	2.414559828	0.124838394	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2033	011000	Construction	C.1 Well Drilling	3.193877806	0.16551055	No Reduction	No Reduction

0.07755722	0.071352641	56	2030	0.06000501	0.00309866	No Reduction	No Reduction	0.0021716	0.00199787
0.043362909	0.039893877	25	2030	0.01495946	0.00077289	No Reduction	No Reduction	0.00054204	0.00049867
0.079195752	0.072860089	38	2030	0.04149487	0.00214459	No Reduction	No Reduction	0.00150472	0.00138434
0.088002917	0.080962684	33	2030	0.0400073	0.00206847	No Reduction	No Reduction	0.00145205	0.00133588
0.11511872	0.105909225	31	2030	0.04815918	0.00249567	No Reduction	No Reduction	0.00178434	0.00164159
0.190456025	0.175219545	41	2030	0.10532898	0.00545932	No Reduction	No Reduction	0.00390435	0.003592
0.211275429	0.194373396	37	2030	0.10540695	0.00546415	No Reduction	No Reduction	0.0039086	0.00359591
0.070412498	0.064779499	10	2030	0.00949169	0.00049209	No Reduction	No Reduction	0.00035206	0.0003239
0.017277156	0.015894984	2	2030	0.00046569	2.4146E-05	No Reduction	No Reduction	1.7277E-05	1.5895E-05
0.066437638	0.061122626	330	2031	0.2421957	0.02119439	No Reduction	No Reduction	0.01096221	0.01008523
0.436688367	0.401753349	1616	2031	7.7168798	0.68284092	No Reduction	No Reduction	0.3528442	0.32461671
0.391767492	0.360426059	1155	2031	4.91692689	0.43808499	No Reduction	No Reduction	0.22624573	0.20814605
0.091026506	0.083744381	223	2031	0.21962528	0.01965977	No Reduction	No Reduction	0.01014946	0.0093375
0.202654581	0.186442199	371	2031	0.80899704	0.07284992	No Reduction	No Reduction	0.03759242	0.03458503
0.104670046	0.096296435	91	2031	0.13175199	0.00680028	No Reduction	No Reduction	0.00476249	0.00438149
0.077442604	0.071247194	56	2031	0.05991633	0.00309408	No Reduction	No Reduction	0.00216839	0.00199492
0.043298826	0.039834921	25	2031	0.01493735	0.00077175	No Reduction	No Reduction	0.00054124	0.00049794
0.079078714	0.072752414	38	2031	0.04143355	0.00214142	No Reduction	No Reduction	0.0015025	0.0013823
0.087872864	0.080843035	33	2031	0.03994818	0.00206541	No Reduction	No Reduction	0.0014499	0.00133391
0.118656613	0.109164087	32	2031	0.0512405	0.00265534	No Reduction	No Reduction	0.00189851	0.00174663
0.190174562	0.1749606	41	2031	0.10517332	0.00545126	No Reduction	No Reduction	0.00389858	0.00358669
0.2109632	0.194086144	37	2031	0.10525118	0.00545607	No Reduction	No Reduction	0.00390282	0.00359059
0.07030844	0.064683766	10	2031	0.00947766	0.00049137	No Reduction	No Reduction	0.00035154	0.00032342
0.017251623	0.015871494	2	2031	0.000465	2.411E-05	No Reduction	No Reduction	1.7252E-05	1.5871E-05
0.066741657	0.061402324	332	2032	0.24477856	0.02142042	No Reduction	No Reduction	0.01107912	0.01019279
0.436313796	0.401408743	1617	2032	7.71503183	0.6826774	No Reduction	No Reduction	0.3527597	0.32453897
0.391866764	0.360517389	1157	2032	4.92668913	0.43895477	No Reduction	No Reduction	0.22669492	0.20855931
0.091299771	0.083995785	224	2032	0.22127243	0.01980721	No Reduction	No Reduction	0.01022557	0.00940753
0.202355534	0.186167075	371	2032	0.80780324	0.07274242	No Reduction	No Reduction	0.03753695	0.03453399
0.104515589	0.096154335	91	2032	0.13155757	0.00679025	No Reduction	No Reduction	0.00475546	0.00437502
0.077328325	0.071142057	56	2032	0.05982792	0.00308951	No Reduction	No Reduction	0.00216519	0.00199198
0.043234932	0.039776138	25	2032	0.01491531	0.00077061	No Reduction	No Reduction	0.00054044	0.0004972
0.078962021	0.072645056	38	2032	0.04137241	0.00213826	No Reduction	No Reduction	0.00150028	0.00138026
0.087743194	0.080723738	33	2032	0.03988923	0.00206237	No Reduction	No Reduction	0.00144776	0.00133194
0.118481517	0.109002999	32	2032	0.05116489	0.00265143	No Reduction	No Reduction	0.0018957	0.00174405
0.189893931	0.174702419	41	2032	0.10501812	0.00544321	No Reduction	No Reduction	0.00389283	0.0035814
0.210651892	0.193799741	37	2032	0.10509586	0.00544802	No Reduction	No Reduction	0.00389706	0.0035853
0.070204689	0.064588315	10	2032	0.00946368	0.00049064	No Reduction	No Reduction	0.00035102	0.00032294
0.017226166	0.015848073	2	2032	0.00046432	2.4075E-05	No Reduction	No Reduction	1.7226E-05	1.5848E-05
0.066659685	0.06132691	332	2033	0.24447793	0.02139411	No Reduction	No Reduction	0.01106551	0.01018027
0.435777916	0.400915733	1617	2033	7.70555623	0.68183893	No Reduction	No Reduction	0.35232645	0.32414037
0.392062025	0.36069703	1159	2033	4.93766459	0.43993266	No Reduction	No Reduction	0.22719994	0.20902393
0.091187636	0.083892622	224	2033	0.22100066	0.01978289	No Reduction	No Reduction	0.01021302	0.00939597
0.202651764	0.186439606	372	2033	0.81116634	0.07304527	No Reduction	No Reduction	0.03769323	0.03467777
0.104387223	0.096036238	91	2033	0.13139599	0.00678191	No Reduction	No Reduction	0.00474962	0.00436965
0.077233351	0.071054681	56	2033	0.05975444	0.00308572	No Reduction	No Reduction	0.00216253	0.00198953
0.044909104	0.041316377	26	2033	0.01611258	0.00083247	No Reduction	No Reduction	0.00058382	0.00053711
0.07886504	0.072555834	38	2033	0.04132159	0.00213564	No Reduction	No Reduction	0.00149844	0.00137856
0.087635428	0.080624594	33	2033	0.03984024	0.00205983	No Reduction	No Reduction	0.00144598	0.00133031
0.118335998	0.108869121	32	2033	0.05110204	0.00264817	No Reduction	No Reduction	0.00189338	0.00174191

0.065275271	56	0.00116563	8.129102533	2030
0.01627439	25	0.000650976	4.539903877	2030
0.045144184	38	0.001188005	8.28514578	2030
0.043527822	33	0.001319025	9.19887974	2030
0.052439184	31	0.001691587	11.7971249	2030
0.114692648	41	0.002797382	19.50893963	2030
0.114779697	37	0.003102154	21.63442183	2030
0.010335849	10	0.001033585	7.208221129	2030
0.000507113	2	0.000253557	1.768303648	2030
0.274352306	330	0.000831371	5.79797874	2031
8.752564921	1616	0.005416191	37.77251718	2031
5.581257603	1155	0.004832258	33.70016495	2031
0.249434505	223	0.00111854	7.800700608	2031
0.919439388	371	0.002478273	17.28347787	2031
0.143314764	91	0.001574888	10.98326552	2031
0.065178805	56	0.001163907	8.117089081	2031
0.016250339	25	0.000650014	4.533194659	2031
0.045077469	38	0.001186249	8.272901722	2031
0.043463495	33	0.001317076	9.185285336	2031
0.055794348	32	0.001743573	12.15968075	2031
0.114523151	41	0.002793248	19.48010869	2031
0.114610072	37	0.00309757	21.60244978	2031
0.010320574	10	0.001032057	7.197568586	2031
0.000506364	2	0.000253182	1.765690392	2031
0.277278095	332	0.000835175	5.824510354	2032
8.750468927	1617	0.005411545	37.74011769	2032
5.592338828	1157	0.004833482	33.7087044	2032
0.251305214	224	0.001121898	7.824118592	2032
0.918082615	371	0.002474616	17.25797348	2032
0.143103281	91	0.001572564	10.96705805	2032
0.065082624	56	0.00116219	8.105111085	2032
0.016226359	25	0.000649054	4.526505243	2032
0.04501095	38	0.001184499	8.2606938	2032
0.043399358	33	0.001315132	9.171731054	2032
0.055712015	32	0.001741	12.1417373	2032
0.114354155	41	0.002789126	19.45136283	2032
0.114440947	37	0.003092999	21.57057209	2032
0.010305345	10	0.001030534	7.186947481	2032
0.000505617	2	0.000252808	1.763084847	2032
0.276937543	332	0.000834149	5.817356693	2033
8.739721606	1617	0.005404899	37.69376529	2033
5.604797193	1159	0.004835891	33.72550097	2033
0.250996561	224	0.00112052	7.814509013	2033
0.921904843	372	0.002478239	17.28323756	2033
0.142927522	91	0.001570632	10.95358831	2033
0.06500269	56	0.001160762	8.095156392	2033
0.017528875	26	0.000674187	4.701783623	2033
0.044955667	38	0.001183044	8.250548021	2033
0.043346055	33	0.001313517	9.160466339	2033
0.05564359	32	0.001738862	12.12682482	2033

	12000	0.04%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2033	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2033	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2033	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2033	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	0.69%	0.61%	No Reduct	No Reduct	0.93%	0.93%	2034	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	3.44%	3.02%	No Reduct	No Reduct	4.67%	4.67%	2034	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	2.49%	2.19%	No Reduct	No Reduct	3.41%	3.41%	2034	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.48%	0.43%	No Reduct	No Reduct	0.67%	0.67%	2034	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	0.81%	0.72%	No Reduct	No Reduct	1.12%	1.12%	2034	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.11%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2034	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.07%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2034	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2034	8000	0.03%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2034	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.04%	0.05%	No Reduct	No Reduct	0.07%	0.07%	2034	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2034	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.03%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2034	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.04%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2034	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2034	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2034	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2034	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	0.69%	0.60%	No Reduct	No Reduct	0.93%	0.93%	2035	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	3.44%	3.02%	No Reduct	No Reduct	4.68%	4.68%	2035	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	2.49%	2.19%	No Reduct	No Reduct	3.41%	3.41%	2035	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.48%	0.43%	No Reduct	No Reduct	0.66%	0.66%	2035	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	0.81%	0.72%	No Reduct	No Reduct	1.12%	1.12%	2035	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.11%	0.11%	No Reduct	No Reduct	0.18%	0.18%	2035	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.07%	0.07%	No Reduct	No Reduct	0.11%	0.11%	2035	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2035	8000	0.03%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2035	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.04%	0.05%	No Reduct	No Reduct	0.07%	0.07%	2035	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2035	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.03%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2035	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.04%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2035	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.04%	0.04%	No Reduct	No Reduct	0.07%	0.07%	2035	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%	2035	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2035	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176

16846.89225	19.81478506	251.5875537	231.4605494	2033	012000	Construction	C.1 Well Drilling	5.241336894	0.271664594	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2033	013000	Construction	C.1 Well Drilling	5.673880312	0.294126037	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2033	014000	Construction	C.1 Well Drilling	1.890411188	0.098007909	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2033	015000	Construction	C.1 Well Drilling	0.463745485	0.02404504	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2034	001000	Construction	C.1 Well Drilling	1.475020675	0.129078118	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2034	002000	Construction	C.1 Well Drilling	9.534311903	0.843659413	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2034	003000	Construction	C.1 Well Drilling	8.522702324	0.759349896	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2034	004000	Construction	C.1 Well Drilling	1.970316259	0.176372956	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2034	005000	Construction	C.1 Well Drilling	4.354691264	0.392138556	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2034	006000	Construction	C.1 Well Drilling	2.883574129	0.148833579	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2034	007000	Construction	C.1 Well Drilling	2.130946336	0.110042088	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2034	008000	Construction	C.1 Well Drilling	1.237605565	0.063942058	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2034	009000	Construction	C.1 Well Drilling	2.171620112	0.11223657	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2034	010000	Construction	C.1 Well Drilling	2.411006392	0.124654673	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2034	011000	Construction	C.1 Well Drilling	3.189177471	0.165266973	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2034	012000	Construction	C.1 Well Drilling	5.233623374	0.271264793	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2034	013000	Construction	C.1 Well Drilling	5.665530231	0.293693181	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2034	014000	Construction	C.1 Well Drilling	1.887629126	0.097863674	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2034	015000	Construction	C.1 Well Drilling	0.463063005	0.024009654	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2035	001000	Construction	C.1 Well Drilling	1.472853121	0.128888437	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2035	002000	Construction	C.1 Well Drilling	9.537931346	0.843979686	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2035	003000	Construction	C.1 Well Drilling	8.52483823	0.759540199	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2035	004000	Construction	C.1 Well Drilling	1.967420864	0.176113775	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2035	005000	Construction	C.1 Well Drilling	4.359980969	0.392614892	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2035	006000	Construction	C.1 Well Drilling	2.879336695	0.148614867	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2035	007000	Construction	C.1 Well Drilling	2.127814894	0.10988038	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2035	008000	Construction	C.1 Well Drilling	1.235786895	0.063848094	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2035	009000	Construction	C.1 Well Drilling	2.1684289	0.112071637	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2035	010000	Construction	C.1 Well Drilling	2.4074634	0.124471492	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2035	011000	Construction	C.1 Well Drilling	3.18449095	0.165024112	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2035	012000	Construction	C.1 Well Drilling	5.225932524	0.270866167	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2035	013000	Construction	C.1 Well Drilling	5.657204691	0.293261596	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2035	014000	Construction	C.1 Well Drilling	1.88485524	0.097719863	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2035	015000	Construction	C.1 Well Drilling	0.46238253	0.023974372	No Reduction	No Reduction

0.194286574	0.178743651	42	2033	0.11006807	0.00570496	No Reduction	No Reduction	0.00408002	0.00375362
0.210393169	0.193561716	37	2033	0.10496679	0.00544133	No Reduction	No Reduction	0.00389227	0.00358089
0.070118464	0.064508988	10	2033	0.00945206	0.00049004	No Reduction	No Reduction	0.00035059	0.00032254
0.017205009	0.015828608	2	2033	0.00046375	2.4045E-05	No Reduction	No Reduction	1.7205E-05	1.5829E-05
0.066762071	0.061421105	333	2034	0.24559094	0.02149151	No Reduction	No Reduction	0.01111588	0.01022661
0.435943898	0.401068437	1620	2034	7.72279264	0.68336412	No Reduction	No Reduction	0.35311456	0.32486543
0.392160596	0.360787715	1161	2034	4.9474287	0.44080261	No Reduction	No Reduction	0.22764923	0.20943727
0.091053438	0.083769159	224	2034	0.22067542	0.01975377	No Reduction	No Reduction	0.01019799	0.00938215
0.202353527	0.186165229	372	2034	0.80997258	0.07293777	No Reduction	No Reduction	0.03763776	0.03462673
0.1042336	0.095894904	91	2034	0.13120262	0.00677193	No Reduction	No Reduction	0.00474263	0.00436322
0.077119689	0.070950112	56	2034	0.0596665	0.00308118	No Reduction	No Reduction	0.00215935	0.0019866
0.044843013	0.041255573	26	2034	0.01608887	0.00083125	No Reduction	No Reduction	0.00058296	0.00053632
0.078748977	0.072449056	38	2034	0.04126078	0.00213249	No Reduction	No Reduction	0.00149623	0.00137653
0.087506457	0.080505941	33	2034	0.03978161	0.0020568	No Reduction	No Reduction	0.00144386	0.00132835
0.118161846	0.108708902	32	2034	0.05102684	0.00264427	No Reduction	No Reduction	0.00189059	0.00173934
0.194000648	0.178480599	42	2034	0.10990609	0.00569656	No Reduction	No Reduction	0.00407401	0.00374809
0.21008354	0.193276857	37	2034	0.10481231	0.00543332	No Reduction	No Reduction	0.00388655	0.00357562
0.070015273	0.064414052	10	2034	0.00943815	0.00048932	No Reduction	No Reduction	0.00035008	0.00032207
0.017179689	0.015805314	2	2034	0.00046306	2.401E-05	No Reduction	No Reduction	1.718E-05	1.5805E-05
0.066663964	0.061330846	333	2035	0.24523004	0.02145992	No Reduction	No Reduction	0.01109955	0.01021159
0.436109392	0.401220692	1623	2035	7.74003129	0.68488951	No Reduction	No Reduction	0.35390277	0.32559059
0.392258877	0.360878133	1163	2035	4.95719343	0.44167263	No Reduction	No Reduction	0.22809854	0.20985063
0.090919634	0.08364606	224	2035	0.22035114	0.01972474	No Reduction	No Reduction	0.010183	0.00936836
0.202599329	0.186391366	373	2035	0.81313645	0.07322268	No Reduction	No Reduction	0.03778477	0.03476199
0.104080428	0.095753986	91	2035	0.13100982	0.00676198	No Reduction	No Reduction	0.00473566	0.00435681
0.077006361	0.07084585	56	2035	0.05957882	0.00307665	No Reduction	No Reduction	0.00215618	0.00198368
0.044777116	0.041194947	26	2035	0.01606523	0.00083003	No Reduction	No Reduction	0.0005821	0.00053553
0.078633255	0.072342591	38	2035	0.04120015	0.00212936	No Reduction	No Reduction	0.00149403	0.00137451
0.087377866	0.080387637	33	2035	0.03972315	0.00205378	No Reduction	No Reduction	0.00144173	0.0013264
0.117988207	0.108549153	32	2035	0.05095186	0.00264039	No Reduction	No Reduction	0.00188781	0.00173679
0.193715563	0.17821832	42	2035	0.10974458	0.00568819	No Reduction	No Reduction	0.00406803	0.00374258
0.20977482	0.192992835	37	2035	0.10465829	0.00542534	No Reduction	No Reduction	0.00388083	0.00357037
0.069912385	0.064319395	10	2035	0.00942428	0.0004886	No Reduction	No Reduction	0.00034956	0.0003216
0.017154443	0.015782088	2	2035	0.00046238	2.3974E-05	No Reduction	No Reduction	1.7154E-05	1.5782E-05

0.119853049	42	0.002853644	19.90131347	2033
0.114300391	37	0.0030892	21.54407912	2033
0.010292688	10	0.001029269	7.178120476	2033
0.000504996	2	0.000252498	1.760919428	2033
0.278198334	333	0.00083543	5.826291834	2034
8.759271324	1620	0.005406958	37.70812235	2034
5.61588054	1161	0.004837106	33.73398009	2034
0.250627177	224	0.001118871	7.803008632	2034
0.920548102	372	0.002474592	17.25780233	2034
0.14271718	91	0.001568321	10.93746824	2034
0.064907027	56	0.001159054	8.08324299	2034
0.017503078	26	0.000673195	4.694864147	2034
0.044889508	38	0.001181303	8.238405934	2034
0.043282264	33	0.001311584	9.146985152	2034
0.055561701	32	0.001736303	12.10897813	2034
0.119676665	42	0.002849444	19.8720253	2034
0.114132179	37	0.003084653	21.51237334	2034
0.01027754	10	0.001027754	7.167556649	2034
0.000504252	2	0.000252126	1.758327935	2034
0.277789519	333	0.000834203	5.817730053	2035
8.778823574	1623	0.00540901	37.72243722	2035
5.626964594	1163	0.004838319	33.74243429	2035
0.250258879	224	0.001117227	7.791542051	2035
0.924143903	373	0.002477598	17.27876562	2035
0.142507456	91	0.001566016	10.92139555	2035
0.064811646	56	0.001157351	8.071364602	2035
0.017477357	26	0.000672206	4.687965008	2035
0.044823542	38	0.001179567	8.226299533	2035
0.043218661	33	0.001309656	9.133543587	2035
0.055480052	32	0.001733752	12.0911839	2035
0.119500799	42	0.002845257	19.84282321	2035
0.11396446	37	0.003080121	21.48076074	2035
0.010262437	10	0.001026244	7.157023869	2035
0.000503511	2	0.000251756	1.755744058	2035

Engines 175<-hp<250 Percentages by Well Depth and Pollutant

Well Depth	PMTON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
1,000	Emissions for Engines 175<hp<250	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102
	% of total	2.22%	2.13%	1.53%	1.52%	2.26%	2.26%
2,000	Emissions for Engines 175<hp<250	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102
	% of total	1.69%	1.63%	1.16%	1.16%	1.74%	1.74%
3,000	Emissions for Engines 175<hp<250	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102
	% of total	1.37%	1.33%	0.94%	0.93%	1.42%	1.42%
4,000	Emissions for Engines 175<hp<250	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102
	% of total	1.15%	1.12%	0.78%	0.78%	1.19%	1.19%
5,000	Emissions for Engines 175<hp<250	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102
	% of total	0.87%	0.85%	0.59%	0.59%	0.91%	0.91%
6,000	Emissions for Engines 175<hp<250	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102
	% of total	0.35%	0.39%	0.25%	0.25%	0.44%	0.44%
7,000	Emissions for Engines 175<hp<250	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102
	% of total	0.29%	0.33%	0.21%	0.21%	0.37%	0.37%
8,000	Emissions for Engines 175<hp<250	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102
	% of total	0.23%	0.26%	0.17%	0.17%	0.30%	0.30%
9,000	Emissions for Engines 175<hp<250	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102
	% of total	0.19%	0.22%	0.14%	0.14%	0.25%	0.25%
10,000	Emissions for Engines 175<hp<250	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102
	% of total	0.15%	0.17%	0.11%	0.11%	0.19%	0.19%
11,000	Emissions for Engines 175<hp<250	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102
	% of total	0.10%	0.12%	0.07%	0.07%	0.13%	0.13%
12,000	Emissions for Engines 175<hp<250	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102
	% of total	0.08%	0.09%	0.06%	0.06%	0.11%	0.11%
13,000	Emissions for Engines 175<hp<250	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102
	% of total	0.07%	0.08%	0.05%	0.05%	0.09%	0.09%
14,000	Emissions for Engines 175<hp<250	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102
	% of total	0.05%	0.06%	0.04%	0.04%	0.07%	0.07%
15,000	Emissions for Engines 175<hp<250	0.008907161	0.000518959	0.004966803	0.000005836	0.000406633	0.000374102
	% of total	0.04%	0.05%	0.03%	0.03%	0.06%	0.06%

Drilled Well Percentages by Year Associated with Each Well Depth

Well Depth	2012	2015	2016	2017	2018	2019
1,000	305	323	323	323	325	325
	8.99%	8.14%	8.14%	8.12%	8.16%	8.15%
2,000	1,414	1,575	1,577	1,581	1,582	1,586
	41.69%	39.71%	39.72%	39.76%	39.73%	39.77%
3,000	930	1,128	1,130	1,131	1,133	1,134
	27.42%	28.44%	28.46%	28.45%	28.45%	28.44%
4,000	174	218	218	219	219	219
	5.13%	5.50%	5.49%	5.51%	5.50%	5.49%
5,000	300	363	363	363	364	365
	8.84%	9.15%	9.14%	9.13%	9.14%	9.15%
6,000	69	89	89	89	89	89
	2.03%	2.24%	2.24%	2.24%	2.24%	2.23%
7,000	44	55	55	55	55	55
	1.30%	1.39%	1.39%	1.38%	1.38%	1.38%
8,000	23	25	25	25	25	25
	0.68%	0.63%	0.63%	0.63%	0.63%	0.63%
9,000	33	37	37	37	37	37
	0.97%	0.93%	0.93%	0.93%	0.93%	0.93%
10,000	21	33	33	33	33	33
	0.62%	0.83%	0.83%	0.83%	0.83%	0.83%
11,000	25	31	31	31	31	31
	0.74%	0.78%	0.78%	0.78%	0.78%	0.78%
12,000	27	41	41	41	41	41
	0.80%	1.03%	1.03%	1.03%	1.03%	1.03%
13,000	20	36	36	36	36	36
	0.59%	0.91%	0.91%	0.91%	0.90%	0.90%
14,000	6	10	10	10	10	10
	0.18%	0.25%	0.25%	0.25%	0.25%	0.25%
15,000	1	2	2	2	2	2
	0.03%	0.05%	0.05%	0.05%	0.05%	0.05%
Total Wells:	3392	3966	3970	3976	3982	3988
	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
326	326	326	327	327	328	328	329	329	330	330	330	332	332	333	333
8.16%	8.15%	8.14%	8.15%	8.14%	8.15%	8.14%	8.15%	8.14%	8.15%	8.14%	8.13%	8.17%	8.16%	8.17%	8.16%
1,588	1,590	1,595	1,598	1,599	1,601	1,603	1,604	1,608	1,610	1,613	1,616	1,617	1,617	1620	1623
39.76%	39.75%	39.82%	39.83%	39.80%	39.79%	39.78%	39.74%	39.78%	39.77%	39.79%	39.80%	39.77%	39.72%	39.74%	39.75%
1,136	1,139	1,140	1,141	1,142	1,144	1,146	1,148	1,150	1,152	1,153	1,155	1,157	1,159	1161	1163
28.44%	28.48%	28.46%	28.44%	28.42%	28.43%	28.44%	28.44%	28.45%	28.46%	28.44%	28.45%	28.46%	28.47%	28.48%	28.48%
220	220	220	221	221	221	222	222	222	222	223	223	224	224	224	224
5.51%	5.50%	5.49%	5.51%	5.50%	5.49%	5.51%	5.50%	5.49%	5.48%	5.50%	5.49%	5.51%	5.50%	5.49%	5.49%
365	366	366	366	368	368	368	369	369	370	371	371	371	372	372	373
9.14%	9.15%	9.14%	9.12%	9.16%	9.15%	9.13%	9.14%	9.13%	9.14%	9.15%	9.14%	9.12%	9.14%	9.12%	9.14%
89	89	89	89	91	91	91	91	91	91	91	91	91	91	91	91
2.23%	2.23%	2.22%	2.22%	2.26%	2.26%	2.26%	2.25%	2.25%	2.25%	2.24%	2.24%	2.24%	2.24%	2.23%	2.23%
55	55	55	55	55	56	56	56	56	56	56	56	56	56	56	56
1.38%	1.38%	1.37%	1.37%	1.37%	1.39%	1.39%	1.39%	1.39%	1.38%	1.38%	1.38%	1.38%	1.38%	1.37%	1.37%
25	25	25	25	25	25	25	25	25	25	25	25	25	26	26	26
0.63%	0.63%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.61%	0.64%	0.64%	0.64%
37	37	37	37	37	37	37	38	38	38	38	38	38	38	38	38
0.93%	0.93%	0.92%	0.92%	0.92%	0.92%	0.92%	0.94%	0.94%	0.94%	0.94%	0.94%	0.93%	0.93%	0.93%	0.93%
33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
0.83%	0.83%	0.82%	0.82%	0.82%	0.82%	0.82%	0.82%	0.82%	0.82%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%
31	31	31	31	31	31	31	31	31	31	31	32	32	32	32	32
0.78%	0.78%	0.77%	0.77%	0.77%	0.77%	0.77%	0.77%	0.77%	0.77%	0.76%	0.79%	0.79%	0.79%	0.78%	0.78%
41	41	41	41	41	41	41	41	41	41	41	41	41	42	42	42
1.03%	1.03%	1.02%	1.02%	1.02%	1.02%	1.02%	1.02%	1.01%	1.01%	1.01%	1.01%	1.01%	1.03%	1.03%	1.03%
36	36	36	36	36	36	37	37	37	37	37	37	37	37	37	37
0.90%	0.90%	0.90%	0.90%	0.90%	0.89%	0.92%	0.92%	0.92%	0.91%	0.91%	0.91%	0.91%	0.91%	0.91%	0.91%
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.24%
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%
3994	4000	4006	4012	4018	4024	4030	4036	4042	4048	4054	4060	4066	4071	4077	4083
100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

% Reduction for Tier 4i NOXGBHP	% Reduction for Tier 4f NOXGBHP	% Reduction for Tier 4i ROGGBHP	% Reduction for Tier 4f ROGGBHP	% Reduction for Tier 4i PM10GBHP	% Reduction for Tier 4f PM10GBHP
0.803193	0.961950696	0.684729743	0.684729743	0.971260057	0.971260057

Engines 175-<hp<250 Percentages by Well Depth and Pollutant

Well Depth		NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
1000	% of total	0.022196	0.021272	0.015271	0.01523	0.022559	0.022559
2000	% of total	0.016937	0.016337	0.011608	0.011578	0.017405	0.017405
3000	% of total	0.013693	0.01326	0.009363	0.009339	0.014168	0.014168
4000	% of total	0.011491	0.011159	0.007845	0.007826	0.011946	0.011946
5000	% of total	0.008696	0.008473	0.005925	0.00591	0.009094	0.009094
6000	% of total	0.003477	0.003896	0.002507	0.002504	0.00442	0.00442
7000	% of total	0.002903	0.003256	0.002092	0.00209	0.003697	0.003697
8000	% of total	0.002326	0.002613	0.001676	0.001674	0.002968	0.002968
9000	% of total	0.001941	0.002181	0.001398	0.001397	0.00248	0.00248
10000	% of total	0.001521	0.001711	0.001096	0.001094	0.001946	0.001946
11000	% of total	0.001024	0.001172	0.000737	0.000736	0.00135	0.00135
12000	% of total	0.000819	0.000939	0.00059	0.000589	0.001081	0.001081
13000	% of total	0.000667	0.000765	0.00048	0.00048	0.000881	0.000881
14000	% of total	0.000542	0.000621	0.00039	0.000389	0.000715	0.000715
15000	% of total	0.000442	0.000506	0.000318	0.000317	0.000584	0.000584

Drilled Well Percentages by Year Associated with Each Well Depth

2012	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
0.089917	0.081442	0.08136	0.081237	0.081617	0.081494	0.081622	0.0815	0.081378	0.081505	0.081384
0.416863	0.397126	0.397229	0.397636	0.397288	0.397693	0.397596	0.3975	0.398153	0.398305	0.397959
0.274175	0.284418	0.284635	0.284457	0.28453	0.284353	0.284427	0.28475	0.284573	0.284397	0.284221
0.051297	0.054967	0.054912	0.05508	0.054997	0.054915	0.055083	0.055	0.054918	0.055085	0.055002
0.088443	0.091528	0.091436	0.091298	0.091411	0.091525	0.091387	0.0915	0.091363	0.091226	0.091588
0.020342	0.022441	0.022418	0.022384	0.022351	0.022317	0.022283	0.02225	0.022217	0.022183	0.022648
0.012972	0.013868	0.013854	0.013833	0.013812	0.013791	0.013771	0.01375	0.013729	0.013709	0.013688
0.006781	0.006304	0.006297	0.006288	0.006278	0.006269	0.006259	0.00625	0.006241	0.006231	0.006222
0.009729	0.009329	0.00932	0.009306	0.009292	0.009278	0.009264	0.00925	0.009236	0.009222	0.009209
0.006191	0.008321	0.008312	0.0083	0.008287	0.008275	0.008262	0.00825	0.008238	0.008225	0.008213
0.00737	0.007816	0.007809	0.007797	0.007785	0.007773	0.007762	0.00775	0.007738	0.007727	0.007715
0.00796	0.010338	0.010327	0.010312	0.010296	0.010281	0.010265	0.01025	0.010235	0.010219	0.010204
0.005896	0.009077	0.009068	0.009054	0.009041	0.009027	0.009014	0.009	0.008987	0.008973	0.00896
0.001769	0.002521	0.002519	0.002515	0.002511	0.002508	0.002504	0.0025	0.002496	0.002493	0.002489
0.000295	0.000504	0.000504	0.000503	0.000502	0.000502	0.000501	0.0005	0.000499	0.000499	0.000498

Combined Percentages for Engines 175-<hp<250 and Drilled Wells

	2012						2015						2016					
	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
1000	0.001996	0.001913	0.001373	0.001369	0.002028	0.002028	0.001808	0.001732	0.001244	0.00124	0.001837	0.001837	0.001806	0.001731	0.001242	0.001239	0.001835	0.001835	0.001803
2000	0.00706	0.00681	0.004839	0.004827	0.007255	0.007255	0.006726	0.006488	0.00461	0.004598	0.006912	0.006912	0.006728	0.006489	0.004611	0.004599	0.006914	0.006914	0.006735
3000	0.003754	0.003636	0.002567	0.002561	0.003885	0.003885	0.003894	0.003771	0.002663	0.002656	0.00403	0.00403	0.003897	0.003774	0.002665	0.002658	0.004033	0.004033	0.003895
4000	0.000589	0.000572	0.000402	0.000401	0.000613	0.000613	0.000632	0.000613	0.000431	0.00043	0.000657	0.000657	0.000631	0.000613	0.000431	0.00043	0.000656	0.000656	0.000633
5000	0.000769	0.000749	0.000524	0.000523	0.000804	0.000804	0.000796	0.000776	0.000542	0.000541	0.000832	0.000832	0.000795	0.000775	0.000542	0.00054	0.000832	0.000832	0.000794
6000	7.07E-05	7.93E-05	5.1E-05	5.09E-05	8.99E-05	8.99E-05	7.8E-05	8.74E-05	5.63E-05	5.62E-05	9.92E-05	9.92E-05	7.79E-05	8.73E-05	5.62E-05	5.61E-05	9.91E-05	9.91E-05	7.78E-05
7000	3.77E-05	4.22E-05	2.71E-05	2.71E-05	4.8E-05	4.8E-05	4.03E-05	4.52E-05	2.9E-05	2.9E-05	5.13E-05	5.13E-05	4.02E-05	4.51E-05	2.9E-05	2.9E-05	5.12E-05	5.12E-05	4.02E-05
8000	1.58E-05	1.77E-05	1.14E-05	1.14E-05	2.01E-05	2.01E-05	1.47E-05	1.65E-05	1.06E-05	1.06E-05	1.87E-05	1.87E-05	1.46E-05	1.65E-05	1.06E-05	1.05E-05	1.87E-05	1.87E-05	1.46E-05
9000	1.89E-05	2.12E-05	1.36E-05	1.36E-05	2.41E-05	2.41E-05	1.81E-05	2.03E-05	1.3E-05	1.3E-05	2.31E-05	2.31E-05	1.81E-05	2.03E-05	1.3E-05	1.3E-05	2.31E-05	2.31E-05	1.81E-05
10000	9.42E-06	1.06E-05	6.78E-06	6.77E-06	1.2E-05	1.2E-05	1.27E-05	1.42E-05	9.12E-06	9.1E-06	1.62E-05	1.62E-05	1.26E-05	1.42E-05	9.11E-06	9.1E-06	1.62E-05	1.62E-05	1.26E-05
11000	7.54E-06	8.64E-06	5.43E-06	5.42E-06	9.95E-06	9.95E-06	8E-06	9.16E-06	5.76E-06	5.75E-06	1.06E-05	1.06E-05	7.99E-06	9.15E-06	5.75E-06	5.75E-06	1.05E-05	1.05E-05	7.98E-06
12000	6.52E-06	7.47E-06	4.69E-06	4.69E-06	8.61E-06	8.61E-06	8.47E-06	9.7E-06	6.1E-06	6.09E-06	1.12E-05	1.12E-05	8.46E-06	9.69E-06	6.09E-06	6.08E-06	1.12E-05	1.12E-05	8.45E-06
13000	3.93E-06	4.51E-06	2.83E-06	2.83E-06	5.19E-06	5.19E-06	6.06E-06	6.94E-06	4.36E-06	4.35E-06	8E-06	8E-06	6.05E-06	6.93E-06	4.35E-06	4.35E-06	7.99E-06	7.99E-06	6.04E-06
14000	9.58E-07	1.1E-06	6.89E-07	6.89E-07	1.27E-06	1.27E-06	1.37E-06	1.57E-06	9.82E-07	9.82E-07	1.8E-06	1.8E-06	1.36E-06	1.56E-06	9.82E-07	9.81E-07	1.8E-06	1.8E-06	1.36E-06
15000	1.3E-07	1.49E-07	9.37E-08	9.36E-08	1.72E-07	1.72E-07	2.23E-07	2.55E-07	1.6E-07	1.6E-07	2.94E-07	2.94E-07	2.23E-07	2.55E-07	1.6E-07	1.6E-07	2.94E-07	2.94E-07	2.22E-07

% Reduction for Tier 4i NOXGBHP	% Reduction for Tier 4f NOXGBHP	% Reduction for Tier 4i ROGGBHP	% Reduction for Tier 4f ROGGBHP	% Reduction for Tier 4i PM10GBHP	% Reduction for Tier 4f PM10GBHP
0.803193	0.961951	0.68473	0.68473	0.97126	0.97126

Final % Reduction GivenTier 4i

	2012						2015						2016					
	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON

2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
0.081511	0.08139	0.081516	0.081395	0.081522	0.081401	0.081281	0.081653	0.081552	0.081678	0.081558
0.397863	0.397767	0.397423	0.397823	0.397727	0.397879	0.39803	0.397688	0.3972	0.397351	0.397502
0.284294	0.284367	0.28444	0.284513	0.284585	0.28441	0.284483	0.284555	0.284697	0.284768	0.28484
0.05492	0.055087	0.055005	0.054923	0.054842	0.055007	0.054926	0.055091	0.055023	0.054942	0.054862
0.091451	0.091315	0.091427	0.091291	0.091403	0.091515	0.091379	0.091244	0.091378	0.091244	0.091354
0.022614	0.022581	0.022547	0.022514	0.02248	0.022447	0.022414	0.022381	0.022353	0.02232	0.022288
0.013917	0.013896	0.013875	0.013855	0.013834	0.013814	0.013793	0.013773	0.013756	0.013736	0.013715
0.006213	0.006203	0.006194	0.006185	0.006176	0.006167	0.006158	0.006149	0.006387	0.006377	0.006368
0.009195	0.009181	0.009415	0.009401	0.009387	0.009373	0.00936	0.009346	0.009334	0.009321	0.009307
0.008201	0.008189	0.008176	0.008164	0.008152	0.00814	0.008128	0.008116	0.008106	0.008094	0.008082
0.007704	0.007692	0.007681	0.007669	0.007658	0.007647	0.007882	0.00787	0.00786	0.007849	0.007837
0.010189	0.010174	0.010159	0.010143	0.010128	0.010113	0.010099	0.010084	0.010317	0.010302	0.010287
0.008946	0.009181	0.009167	0.009154	0.00914	0.009127	0.009113	0.0091	0.009089	0.009075	0.009062
0.002485	0.002481	0.002478	0.002474	0.00247	0.002467	0.002463	0.002459	0.002456	0.002453	0.002449
0.000497	0.000496	0.000496	0.000495	0.000494	0.000493	0.000493	0.000492	0.000491	0.000491	0.00049

2017						2018						2019						20	
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON
0.001728	0.001241	0.001237	0.001833	0.001833	0.001812	0.001736	0.001246	0.001243	0.001841	0.001841	0.001809	0.001734	0.001244	0.001241	0.001838	0.001838	0.001812	0.001736	0.001246
0.006496	0.004616	0.004604	0.006921	0.006921	0.006729	0.00649	0.004612	0.0046	0.006915	0.006915	0.006736	0.006497	0.004617	0.004605	0.006922	0.006922	0.006734	0.006495	0.004615
0.003772	0.002663	0.002657	0.00403	0.00403	0.003896	0.003773	0.002664	0.002657	0.004031	0.004031	0.003894	0.003771	0.002662	0.002656	0.004029	0.004029	0.003895	0.003772	0.002663
0.000615	0.000432	0.000431	0.000658	0.000658	0.000632	0.000614	0.000431	0.00043	0.000657	0.000657	0.000631	0.000613	0.000431	0.00043	0.000656	0.000656	0.000633	0.000615	0.000432
0.000774	0.000541	0.00054	0.00083	0.00083	0.000795	0.000775	0.000542	0.00054	0.000831	0.000831	0.000796	0.000776	0.000542	0.000541	0.000832	0.000832	0.000795	0.000774	0.000541
8.72E-05	5.61E-05	5.61E-05	9.89E-05	9.89E-05	7.77E-05	8.71E-05	5.6E-05	5.6E-05	9.88E-05	9.88E-05	7.76E-05	8.7E-05	5.6E-05	5.59E-05	9.86E-05	9.86E-05	7.75E-05	8.68E-05	5.59E-05
4.5E-05	2.89E-05	2.89E-05	5.11E-05	5.11E-05	4.01E-05	4.5E-05	2.89E-05	2.89E-05	5.11E-05	5.11E-05	4E-05	4.49E-05	2.89E-05	2.88E-05	5.1E-05	5.1E-05	4E-05	4.48E-05	2.88E-05
1.64E-05	1.05E-05	1.05E-05	1.87E-05	1.87E-05	1.46E-05	1.64E-05	1.05E-05	1.05E-05	1.86E-05	1.86E-05	1.46E-05	1.64E-05	1.05E-05	1.05E-05	1.86E-05	1.86E-05	1.46E-05	1.64E-05	1.05E-05
2.03E-05	1.3E-05	1.3E-05	2.31E-05	2.31E-05	1.8E-05	2.03E-05	1.3E-05	1.3E-05	2.3E-05	2.3E-05	1.8E-05	2.02E-05	1.3E-05	1.3E-05	2.3E-05	2.3E-05	1.8E-05	2.02E-05	1.3E-05
1.42E-05	9.09E-06	9.08E-06	1.62E-05	1.62E-05	1.26E-05	1.42E-05	9.08E-06	9.07E-06	1.61E-05	1.61E-05	1.26E-05	1.42E-05	9.07E-06	9.05E-06	1.61E-05	1.61E-05	1.26E-05	1.41E-05	9.05E-06
9.14E-06	5.74E-06	5.74E-06	1.05E-05	1.05E-05	7.97E-06	9.12E-06	5.74E-06	5.73E-06	1.05E-05	1.05E-05	7.96E-06	9.11E-06	5.73E-06	5.72E-06	1.05E-05	1.05E-05	7.95E-06	9.1E-06	5.72E-06
9.68E-06	6.08E-06	6.07E-06	1.12E-05	1.12E-05	8.44E-06	9.66E-06	6.07E-06	6.07E-06	1.11E-05	1.11E-05	8.42E-06	9.65E-06	6.06E-06	6.06E-06	1.11E-05	1.11E-05	8.41E-06	9.64E-06	6.05E-06
6.92E-06	4.35E-06	4.34E-06	7.98E-06	7.98E-06	6.03E-06	6.91E-06	4.34E-06	4.34E-06	7.97E-06	7.97E-06	6.02E-06	6.9E-06	4.33E-06	4.33E-06	7.95E-06	7.95E-06	6.01E-06	6.89E-06	4.33E-06
1.56E-06	9.8E-07	9.79E-07	1.8E-06	1.8E-06	1.36E-06	1.56E-06	9.79E-07	9.78E-07	1.8E-06	1.8E-06	1.36E-06	1.56E-06	9.77E-07	9.76E-07	1.79E-06	1.79E-06	1.36E-06	1.55E-06	9.76E-07
2.55E-07	1.6E-07	1.6E-07	2.94E-07	2.94E-07	2.22E-07	2.54E-07	1.6E-07	1.59E-07	2.93E-07	2.93E-07	2.22E-07	2.54E-07	1.59E-07	1.59E-07	2.93E-07	2.93E-07	2.21E-07	2.54E-07	1.59E-07

2017						2018						2019						20	
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON

20						2021						2022						2023		
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON
0.001243	0.001841	0.001841	0.001809	0.001734	0.001245	0.001241	0.001839	0.001839	0.001806	0.001731	0.001243	0.001239	0.001836	0.001836	0.001809	0.001734	0.001245	0.001241	0.001839
0.004604	0.00692	0.00692	0.006732	0.006494	0.004614	0.004602	0.006918	0.006918	0.006744	0.006505	0.004622	0.00461	0.00693	0.00693	0.006746	0.006507	0.004624	0.004612	0.006932
0.002656	0.00403	0.00403	0.003899	0.003776	0.002666	0.002659	0.004034	0.004034	0.003897	0.003774	0.002664	0.002658	0.004032	0.004032	0.003894	0.003771	0.002663	0.002656	0.004029
0.000431	0.000658	0.000658	0.000632	0.000614	0.000431	0.00043	0.000657	0.000657	0.000631	0.000613	0.000431	0.00043	0.000656	0.000656	0.000633	0.000615	0.000432	0.000431	0.000658
0.00054	0.000831	0.000831	0.000796	0.000775	0.000542	0.000541	0.000832	0.000832	0.000794	0.000774	0.000541	0.00054	0.000831	0.000831	0.000793	0.000773	0.00054	0.000539	0.00083
5.58E-05	9.85E-05	9.85E-05	7.74E-05	8.67E-05	5.58E-05	5.57E-05	9.83E-05	9.83E-05	7.72E-05	8.66E-05	5.57E-05	5.56E-05	9.82E-05	9.82E-05	7.71E-05	8.64E-05	5.56E-05	5.55E-05	9.81E-05
2.88E-05	5.09E-05	5.09E-05	3.99E-05	4.48E-05	2.88E-05	2.87E-05	5.08E-05	5.08E-05	3.99E-05	4.47E-05	2.87E-05	2.87E-05	5.08E-05	5.08E-05	3.98E-05	4.46E-05	2.87E-05	2.86E-05	5.07E-05
1.05E-05	1.86E-05	1.86E-05	1.45E-05	1.63E-05	1.05E-05	1.05E-05	1.86E-05	1.86E-05	1.45E-05	1.63E-05	1.05E-05	1.04E-05	1.85E-05	1.85E-05	1.45E-05	1.63E-05	1.04E-05	1.04E-05	1.85E-05
1.29E-05	2.3E-05	2.3E-05	1.8E-05	2.02E-05	1.29E-05	1.29E-05	2.29E-05	2.29E-05	1.79E-05	2.01E-05	1.29E-05	1.29E-05	2.29E-05	2.29E-05	1.79E-05	2.01E-05	1.29E-05	1.29E-05	2.29E-05
9.04E-06	1.61E-05	1.61E-05	1.25E-05	1.41E-05	9.04E-06	9.03E-06	1.61E-05	1.61E-05	1.25E-05	1.41E-05	9.02E-06	9.01E-06	1.6E-05	1.6E-05	1.25E-05	1.41E-05	9.01E-06	9E-06	1.6E-05
5.71E-06	1.05E-05	1.05E-05	7.93E-06	9.08E-06	5.71E-06	5.7E-06	1.05E-05	1.05E-05	7.92E-06	9.07E-06	5.7E-06	5.69E-06	1.04E-05	1.04E-05	7.91E-06	9.06E-06	5.69E-06	5.69E-06	1.04E-05
6.05E-06	1.11E-05	1.11E-05	8.4E-06	9.62E-06	6.04E-06	6.04E-06	1.11E-05	1.11E-05	8.39E-06	9.61E-06	6.03E-06	6.03E-06	1.11E-05	1.11E-05	8.37E-06	9.59E-06	6.03E-06	6.02E-06	1.11E-05
4.32E-06	7.94E-06	7.94E-06	6.01E-06	6.88E-06	4.32E-06	4.32E-06	7.93E-06	7.93E-06	6E-06	6.87E-06	4.31E-06	4.31E-06	7.92E-06	7.92E-06	5.99E-06	6.86E-06	4.31E-06	4.3E-06	7.91E-06
9.75E-07	1.79E-06	1.79E-06	1.35E-06	1.55E-06	9.74E-07	9.73E-07	1.79E-06	1.79E-06	1.35E-06	1.55E-06	9.73E-07	9.72E-07	1.79E-06	1.79E-06	1.35E-06	1.55E-06	9.71E-07	9.7E-07	1.78E-06
1.59E-07	2.92E-07	2.92E-07	2.21E-07	2.53E-07	1.59E-07	1.59E-07	2.92E-07	2.92E-07	2.21E-07	2.53E-07	1.59E-07	1.59E-07	2.91E-07	2.91E-07	2.2E-07	2.52E-07	1.58E-07	1.58E-07	2.91E-07

20						2021						2022						2023	
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON

2024						2025						2026								
PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
0.001839	0.001806	0.001731	0.001243	0.001239	0.001836	0.001836	0.001809	0.001734	0.001245	0.001241	0.001839	0.001839	0.001807	0.001731	0.001243	0.00124	0.001836	0.001836	0.001809
0.006932	0.00674	0.006501	0.00462	0.004608	0.006926	0.006926	0.006739	0.0065	0.004619	0.004607	0.006925	0.006925	0.006737	0.006498	0.004617	0.004606	0.006923	0.006923	0.006731
0.004029	0.003892	0.003769	0.002661	0.002654	0.004027	0.004027	0.003893	0.00377	0.002662	0.002655	0.004028	0.004028	0.003894	0.003771	0.002662	0.002656	0.004029	0.004029	0.003895
0.000658	0.000632	0.000614	0.000432	0.00043	0.000657	0.000657	0.000631	0.000613	0.000431	0.00043	0.000656	0.000656	0.000633	0.000615	0.000432	0.000431	0.000658	0.000658	0.000632
0.00083	0.000796	0.000776	0.000543	0.000541	0.000833	0.000833	0.000795	0.000775	0.000542	0.000541	0.000832	0.000832	0.000794	0.000774	0.000541	0.00054	0.00083	0.00083	0.000795
9.81E-05	7.87E-05	8.82E-05	5.68E-05	5.67E-05	0.0001	0.0001	7.86E-05	8.81E-05	5.67E-05	5.66E-05	1E-04	1E-04	7.85E-05	8.8E-05	5.66E-05	5.65E-05	9.98E-05	9.98E-05	7.84E-05
5.07E-05	3.97E-05	4.46E-05	2.86E-05	2.86E-05	5.06E-05	5.06E-05	4.04E-05	4.53E-05	2.91E-05	2.91E-05	5.14E-05	5.14E-05	4.03E-05	4.52E-05	2.91E-05	2.9E-05	5.14E-05	5.14E-05	4.03E-05
1.85E-05	1.45E-05	1.63E-05	1.04E-05	1.04E-05	1.85E-05	1.85E-05	1.45E-05	1.62E-05	1.04E-05	1.04E-05	1.84E-05	1.84E-05	1.44E-05	1.62E-05	1.04E-05	1.04E-05	1.84E-05	1.84E-05	1.44E-05
2.29E-05	1.79E-05	2.01E-05	1.29E-05	1.29E-05	2.28E-05	2.28E-05	1.78E-05	2.01E-05	1.29E-05	1.28E-05	2.28E-05	2.28E-05	1.78E-05	2E-05	1.28E-05	1.28E-05	2.28E-05	2.28E-05	1.83E-05
1.6E-05	1.25E-05	1.4E-05	9E-06	8.99E-06	1.6E-05	1.6E-05	1.25E-05	1.4E-05	8.98E-06	8.97E-06	1.6E-05	1.6E-05	1.25E-05	1.4E-05	8.97E-06	8.96E-06	1.59E-05	1.59E-05	1.24E-05
1.04E-05	7.9E-06	9.04E-06	5.68E-06	5.68E-06	1.04E-05	1.04E-05	7.89E-06	9.03E-06	5.68E-06	5.67E-06	1.04E-05	1.04E-05	7.87E-06	9.02E-06	5.67E-06	5.66E-06	1.04E-05	1.04E-05	7.86E-06
1.11E-05	8.36E-06	9.58E-06	6.02E-06	6.01E-06	1.1E-05	1.1E-05	8.35E-06	9.56E-06	6.01E-06	6E-06	1.1E-05	1.1E-05	8.34E-06	9.55E-06	6E-06	5.99E-06	1.1E-05	1.1E-05	8.32E-06
7.91E-06	5.98E-06	6.85E-06	4.3E-06	4.3E-06	7.89E-06	7.89E-06	5.97E-06	6.84E-06	4.3E-06	4.29E-06	7.88E-06	7.88E-06	6.13E-06	7.02E-06	4.41E-06	4.4E-06	8.09E-06	8.09E-06	6.12E-06
1.78E-06	1.35E-06	1.54E-06	9.7E-07	9.69E-07	1.78E-06	1.78E-06	1.35E-06	1.54E-06	9.68E-07	9.67E-07	1.78E-06	1.78E-06	1.34E-06	1.54E-06	9.67E-07	9.66E-07	1.78E-06	1.78E-06	1.34E-06
2.91E-07	2.2E-07	2.52E-07	1.58E-07	1.58E-07	2.91E-07	2.91E-07	2.2E-07	2.52E-07	1.58E-07	1.58E-07	2.9E-07	2.9E-07	2.19E-07	2.51E-07	1.58E-07	1.58E-07	2.9E-07	2.9E-07	2.19E-07

2024						2025						2026								
PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON

2027						2028						2029						20	
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON
0.001734	0.001245	0.001241	0.001839	0.001839	0.001807	0.001731	0.001243	0.00124	0.001836	0.001836	0.001809	0.001734	0.001245	0.001242	0.001839	0.001839	0.001807	0.001732	0.001243
0.006493	0.004613	0.004602	0.006917	0.006917	0.006738	0.006499	0.004618	0.004606	0.006924	0.006924	0.006736	0.006498	0.004617	0.004605	0.006922	0.006922	0.006739	0.0065	0.004619
0.003772	0.002663	0.002656	0.00403	0.00403	0.003896	0.003773	0.002664	0.002657	0.004031	0.004031	0.003897	0.003774	0.002665	0.002658	0.004032	0.004032	0.003894	0.003771	0.002663
0.000614	0.000432	0.00043	0.000657	0.000657	0.000631	0.000613	0.000431	0.00043	0.000656	0.000656	0.00063	0.000612	0.00043	0.000429	0.000655	0.000655	0.000632	0.000614	0.000432
0.000775	0.000542	0.00054	0.000831	0.000831	0.000794	0.000774	0.000541	0.00054	0.00083	0.00083	0.000795	0.000774	0.000542	0.00054	0.000831	0.000831	0.000796	0.000775	0.000542
8.79E-05	5.65E-05	5.65E-05	9.97E-05	9.97E-05	7.83E-05	8.77E-05	5.64E-05	5.64E-05	9.95E-05	9.95E-05	7.82E-05	8.76E-05	5.64E-05	5.63E-05	9.94E-05	9.94E-05	7.8E-05	8.75E-05	5.63E-05
4.52E-05	2.9E-05	2.9E-05	5.13E-05	5.13E-05	4.02E-05	4.51E-05	2.9E-05	2.9E-05	5.12E-05	5.12E-05	4.02E-05	4.5E-05	2.89E-05	2.89E-05	5.11E-05	5.11E-05	4.01E-05	4.5E-05	2.89E-05
1.62E-05	1.04E-05	1.04E-05	1.84E-05	1.84E-05	1.44E-05	1.62E-05	1.04E-05	1.04E-05	1.84E-05	1.84E-05	1.44E-05	1.61E-05	1.04E-05	1.03E-05	1.83E-05	1.83E-05	1.43E-05	1.61E-05	1.03E-05
2.05E-05	1.32E-05	1.31E-05	2.33E-05	2.33E-05	1.82E-05	2.05E-05	1.31E-05	1.31E-05	2.33E-05	2.33E-05	1.82E-05	2.05E-05	1.31E-05	1.31E-05	2.33E-05	2.33E-05	1.82E-05	2.04E-05	1.31E-05
1.4E-05	8.96E-06	8.95E-06	1.59E-05	1.59E-05	1.24E-05	1.4E-05	8.94E-06	8.93E-06	1.59E-05	1.59E-05	1.24E-05	1.39E-05	8.93E-06	8.92E-06	1.59E-05	1.59E-05	1.24E-05	1.39E-05	8.92E-06
9E-06	5.66E-06	5.65E-06	1.04E-05	1.04E-05	7.85E-06	8.99E-06	5.65E-06	5.64E-06	1.04E-05	1.04E-05	7.84E-06	8.98E-06	5.64E-06	5.64E-06	1.03E-05	1.03E-05	7.83E-06	8.96E-06	5.63E-06
9.54E-06	5.99E-06	5.98E-06	1.1E-05	1.1E-05	8.31E-06	9.52E-06	5.98E-06	5.98E-06	1.1E-05	1.1E-05	8.3E-06	9.51E-06	5.97E-06	5.97E-06	1.1E-05	1.1E-05	8.29E-06	9.49E-06	5.96E-06
7.01E-06	4.4E-06	4.4E-06	8.08E-06	8.08E-06	6.11E-06	7E-06	4.4E-06	4.39E-06	8.07E-06	8.07E-06	6.1E-06	6.99E-06	4.39E-06	4.38E-06	8.05E-06	8.05E-06	6.09E-06	6.98E-06	4.38E-06
1.54E-06	9.65E-07	9.65E-07	1.77E-06	1.77E-06	1.34E-06	1.54E-06	9.64E-07	9.63E-07	1.77E-06	1.77E-06	1.34E-06	1.53E-06	9.63E-07	9.62E-07	1.77E-06	1.77E-06	1.34E-06	1.53E-06	9.61E-07
2.51E-07	1.57E-07	1.57E-07	2.89E-07	2.89E-07	2.19E-07	2.51E-07	1.57E-07	1.57E-07	2.89E-07	2.89E-07	2.18E-07	2.5E-07	1.57E-07	1.57E-07	2.88E-07	2.88E-07	2.18E-07	2.5E-07	1.57E-07

2027						2028						2029						20	
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON

30						2031						2032						2033		
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON
0.00124	0.001836	0.001836	0.001804	0.001729	0.001241	0.001238	0.001834	0.001834	0.001812	0.001737	0.001247	0.001244	0.001842	0.001842	0.00181	0.001735	0.001245	0.001242	0.00184
0.004607	0.006925	0.006925	0.006741	0.006503	0.00462	0.004609	0.006928	0.006928	0.006736	0.006497	0.004616	0.004605	0.006922	0.006922	0.006727	0.006489	0.004611	0.004599	0.006913
0.002656	0.00403	0.00403	0.003895	0.003772	0.002664	0.002657	0.004031	0.004031	0.003896	0.003773	0.002664	0.002658	0.004032	0.004032	0.003898	0.003775	0.002666	0.002659	0.004034
0.00043	0.000657	0.000657	0.000631	0.000613	0.000431	0.00043	0.000656	0.000656	0.000633	0.000615	0.000432	0.000431	0.000658	0.000658	0.000632	0.000614	0.000432	0.000431	0.000657
0.000541	0.000832	0.000832	0.000795	0.000774	0.000541	0.00054	0.000831	0.000831	0.000793	0.000773	0.000541	0.000539	0.00083	0.00083	0.000795	0.000774	0.000541	0.00054	0.000831
5.62E-05	9.92E-05	9.92E-05	7.79E-05	8.73E-05	5.62E-05	5.61E-05	9.91E-05	9.91E-05	7.78E-05	8.72E-05	5.61E-05	5.6E-05	9.89E-05	9.89E-05	7.77E-05	8.71E-05	5.6E-05	5.6E-05	9.88E-05
2.89E-05	5.11E-05	5.11E-05	4E-05	4.49E-05	2.89E-05	2.88E-05	5.1E-05	5.1E-05	4E-05	4.48E-05	2.88E-05	2.88E-05	5.09E-05	5.09E-05	3.99E-05	4.48E-05	2.88E-05	2.87E-05	5.09E-05
1.03E-05	1.83E-05	1.83E-05	1.43E-05	1.61E-05	1.03E-05	1.03E-05	1.83E-05	1.83E-05	1.43E-05	1.61E-05	1.03E-05	1.03E-05	1.83E-05	1.83E-05	1.49E-05	1.67E-05	1.07E-05	1.07E-05	1.9E-05
1.31E-05	2.32E-05	2.32E-05	1.82E-05	2.04E-05	1.31E-05	1.31E-05	2.32E-05	2.32E-05	1.81E-05	2.04E-05	1.31E-05	1.31E-05	2.32E-05	2.32E-05	1.81E-05	2.04E-05	1.31E-05	1.3E-05	2.31E-05
8.91E-06	1.58E-05	1.58E-05	1.24E-05	1.39E-05	8.9E-06	8.89E-06	1.58E-05	1.58E-05	1.23E-05	1.39E-05	8.89E-06	8.88E-06	1.58E-05	1.58E-05	1.23E-05	1.39E-05	8.88E-06	8.87E-06	1.58E-05
5.63E-06	1.03E-05	1.03E-05	8.07E-06	9.24E-06	5.81E-06	5.8E-06	1.06E-05	1.06E-05	8.06E-06	9.22E-06	5.8E-06	5.79E-06	1.06E-05	1.06E-05	8.05E-06	9.21E-06	5.79E-06	5.78E-06	1.06E-05
5.96E-06	1.09E-05	1.09E-05	8.28E-06	9.48E-06	5.95E-06	5.95E-06	1.09E-05	1.09E-05	8.26E-06	9.47E-06	5.95E-06	5.94E-06	1.09E-05	1.09E-05	8.45E-06	9.68E-06	6.08E-06	6.08E-06	1.12E-05
4.38E-06	8.04E-06	8.04E-06	6.08E-06	6.97E-06	4.38E-06	4.37E-06	8.03E-06	8.03E-06	6.07E-06	6.96E-06	4.37E-06	4.36E-06	8.02E-06	8.02E-06	6.07E-06	6.95E-06	4.36E-06	4.36E-06	8.01E-06
9.6E-07	1.76E-06	1.76E-06	1.33E-06	1.53E-06	9.6E-07	9.59E-07	1.76E-06	1.76E-06	1.33E-06	1.53E-06	9.58E-07	9.57E-07	1.76E-06	1.76E-06	1.33E-06	1.52E-06	9.57E-07	9.56E-07	1.76E-06
1.57E-07	2.88E-07	2.88E-07	2.18E-07	2.49E-07	1.57E-07	1.56E-07	2.88E-07	2.88E-07	2.17E-07	2.49E-07	1.56E-07	1.56E-07	2.87E-07	2.87E-07	2.17E-07	2.49E-07	1.56E-07	1.56E-07	2.87E-07

30						2031						2032						2033		
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON

2034						2035					
PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
0.00184	0.001813	0.001737	0.001247	0.001244	0.001843	0.001843	0.00181	0.001735	0.001245	0.001242	0.00184	0.00184
0.006913	0.00673	0.006491	0.004613	0.004601	0.006916	0.006916	0.006732	0.006494	0.004614	0.004602	0.006919	0.006919
0.004034	0.003899	0.003776	0.002666	0.00266	0.004035	0.004035	0.0039	0.003777	0.002667	0.00266	0.004036	0.004036
0.000657	0.000631	0.000613	0.000431	0.00043	0.000656	0.000656	0.00063	0.000612	0.00043	0.000429	0.000655	0.000655
0.000831	0.000793	0.000773	0.000541	0.000539	0.00083	0.00083	0.000794	0.000774	0.000541	0.00054	0.000831	0.000831
9.88E-05	7.76E-05	8.7E-05	5.6E-05	5.59E-05	9.87E-05	9.87E-05	7.75E-05	8.68E-05	5.59E-05	5.58E-05	9.85E-05	9.85E-05
5.09E-05	3.99E-05	4.47E-05	2.87E-05	2.87E-05	5.08E-05	5.08E-05	3.98E-05	4.47E-05	2.87E-05	2.87E-05	5.07E-05	5.07E-05
1.9E-05	1.48E-05	1.67E-05	1.07E-05	1.07E-05	1.89E-05	1.89E-05	1.48E-05	1.66E-05	1.07E-05	1.07E-05	1.89E-05	1.89E-05
2.31E-05	1.81E-05	2.03E-05	1.3E-05	1.3E-05	2.31E-05	2.31E-05	1.81E-05	2.03E-05	1.3E-05	1.3E-05	2.31E-05	2.31E-05
1.58E-05	1.23E-05	1.38E-05	8.87E-06	8.86E-06	1.58E-05	1.58E-05	1.23E-05	1.38E-05	8.85E-06	8.84E-06	1.57E-05	1.57E-05
1.06E-05	8.03E-06	9.2E-06	5.78E-06	5.78E-06	1.06E-05	1.06E-05	8.02E-06	9.19E-06	5.77E-06	5.77E-06	1.06E-05	1.06E-05
1.12E-05	8.44E-06	9.67E-06	6.07E-06	6.07E-06	1.11E-05	1.11E-05	8.43E-06	9.66E-06	6.07E-06	6.06E-06	1.11E-05	1.11E-05
8.01E-06	6.06E-06	6.94E-06	4.36E-06	4.35E-06	8E-06	8E-06	6.05E-06	6.93E-06	4.35E-06	4.35E-06	7.98E-06	7.98E-06
1.76E-06	1.33E-06	1.52E-06	9.56E-07	9.55E-07	1.75E-06	1.75E-06	1.33E-06	1.52E-06	9.54E-07	9.53E-07	1.75E-06	1.75E-06
2.87E-07	2.17E-07	2.48E-07	1.56E-07	1.56E-07	2.86E-07	2.86E-07	2.16E-07	2.48E-07	1.56E-07	1.56E-07	2.86E-07	2.86E-07

2034						2035					
PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON

1000	0.001603	0.00131	No Reduct	No Reduct	0.00197	0.00197	0.001452	0.001186	No Reduct	No Reduct	0.001784	0.001784	0.00145	0.001185	No Reduct	No Reduct	0.001783	0.001783	0.001448
2000	0.005671	0.004663	No Reduct	No Reduct	0.007047	0.007047	0.005402	0.004442	No Reduct	No Reduct	0.006713	0.006713	0.005404	0.004444	No Reduct	No Reduct	0.006715	0.006715	0.005409
3000	0.003015	0.002489	No Reduct	No Reduct	0.003773	0.003773	0.003128	0.002582	No Reduct	No Reduct	0.003914	0.003914	0.00313	0.002584	No Reduct	No Reduct	0.003917	0.003917	0.003128
4000	0.000473	0.000392	No Reduct	No Reduct	0.000595	0.000595	0.000507	0.00042	No Reduct	No Reduct	0.000638	0.000638	0.000507	0.00042	No Reduct	No Reduct	0.000637	0.000637	0.000508
5000	0.000618	0.000513	No Reduct	No Reduct	0.000781	0.000781	0.000639	0.000531	No Reduct	No Reduct	0.000808	0.000808	0.000639	0.000531	No Reduct	No Reduct	0.000808	0.000808	0.000638
6000	5.68E-05	5.43E-05	No Reduct	No Reduct	8.73E-05	8.73E-05	6.27E-05	5.99E-05	No Reduct	No Reduct	9.63E-05	9.63E-05	6.26E-05	5.98E-05	No Reduct	No Reduct	9.62E-05	9.62E-05	6.25E-05
7000	3.02E-05	2.89E-05	No Reduct	No Reduct	4.66E-05	4.66E-05	3.23E-05	3.09E-05	No Reduct	No Reduct	4.98E-05	4.98E-05	3.23E-05	3.09E-05	No Reduct	No Reduct	4.97E-05	4.97E-05	3.23E-05
8000	1.27E-05	1.21E-05	No Reduct	No Reduct	1.95E-05	1.95E-05	1.18E-05	1.13E-05	No Reduct	No Reduct	1.82E-05	1.82E-05	1.18E-05	1.13E-05	No Reduct	No Reduct	1.82E-05	1.82E-05	1.17E-05
9000	1.52E-05	1.45E-05	No Reduct	No Reduct	2.34E-05	2.34E-05	1.45E-05	1.39E-05	No Reduct	No Reduct	2.25E-05	2.25E-05	1.45E-05	1.39E-05	No Reduct	No Reduct	2.24E-05	2.24E-05	1.45E-05
10000	7.56E-06	7.25E-06	No Reduct	No Reduct	1.17E-05	1.17E-05	1.02E-05	9.75E-06	No Reduct	No Reduct	1.57E-05	1.57E-05	1.02E-05	9.74E-06	No Reduct	No Reduct	1.57E-05	1.57E-05	1.01E-05
11000	6.06E-06	5.92E-06	No Reduct	No Reduct	9.66E-06	9.66E-06	6.43E-06	6.27E-06	No Reduct	No Reduct	1.02E-05	1.02E-05	6.42E-06	6.27E-06	No Reduct	No Reduct	1.02E-05	1.02E-05	6.41E-06
12000	5.24E-06	5.12E-06	No Reduct	No Reduct	8.36E-06	8.36E-06	6.8E-06	6.64E-06	No Reduct	No Reduct	1.09E-05	1.09E-05	6.8E-06	6.64E-06	No Reduct	No Reduct	1.08E-05	1.08E-05	6.79E-06
13000	3.16E-06	3.09E-06	No Reduct	No Reduct	5.05E-06	5.05E-06	4.87E-06	4.75E-06	No Reduct	No Reduct	7.77E-06	7.77E-06	4.86E-06	4.75E-06	No Reduct	No Reduct	7.76E-06	7.76E-06	4.85E-06
14000	7.69E-07	7.52E-07	No Reduct	No Reduct	1.23E-06	1.23E-06	1.1E-06	1.07E-06	No Reduct	No Reduct	1.75E-06	1.75E-06	1.1E-06	1.07E-06	No Reduct	No Reduct	1.75E-06	1.75E-06	1.09E-06
15000	1.05E-07	1.02E-07	No Reduct	No Reduct	1.67E-07	1.67E-07	1.79E-07	1.75E-07	No Reduct	No Reduct	2.86E-07	2.86E-07	1.79E-07	1.75E-07	No Reduct	No Reduct	2.86E-07	2.86E-07	1.78E-07

Final % Reduction GivenTier 4f

	2012						2015						2016					
	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
1000	0.00192	0.00131	No Reduct	No Reduct	0.00197	0.00197	0.001739	0.001186	No Reduct	No Reduct	0.001784	0.001784	0.001737	0.001185	No Reduct	No Reduct	0.001783	0.001783	0.001735
2000	0.006792	0.004663	No Reduct	No Reduct	0.007047	0.007047	0.00647	0.004442	No Reduct	No Reduct	0.006713	0.006713	0.006472	0.004444	No Reduct	No Reduct	0.006715	0.006715	0.006479
3000	0.003611	0.002489	No Reduct	No Reduct	0.003773	0.003773	0.003746	0.002582	No Reduct	No Reduct	0.003914	0.003914	0.003749	0.002584	No Reduct	No Reduct	0.003917	0.003917	0.003747
4000	0.000567	0.000392	No Reduct	No Reduct	0.000595	0.000595	0.000608	0.00042	No Reduct	No Reduct	0.000638	0.000638	0.000607	0.00042	No Reduct	No Reduct	0.000637	0.000637	0.000609
5000	0.00074	0.000513	No Reduct	No Reduct	0.000781	0.000781	0.000766	0.000531	No Reduct	No Reduct	0.000808	0.000808	0.000765	0.000531	No Reduct	No Reduct	0.000808	0.000808	0.000764
6000	6.8E-05	5.43E-05	No Reduct	No Reduct	8.73E-05	8.73E-05	7.51E-05	5.99E-05	No Reduct	No Reduct	9.63E-05	9.63E-05	7.5E-05	5.98E-05	No Reduct	No Reduct	9.62E-05	9.62E-05	7.49E-05
7000	3.62E-05	2.89E-05	No Reduct	No Reduct	4.66E-05	4.66E-05	3.87E-05	3.09E-05	No Reduct	No Reduct	4.98E-05	4.98E-05	3.87E-05	3.09E-05	No Reduct	No Reduct	4.97E-05	4.97E-05	3.86E-05
8000	1.52E-05	1.21E-05	No Reduct	No Reduct	1.95E-05	1.95E-05	1.41E-05	1.13E-05	No Reduct	No Reduct	1.82E-05	1.82E-05	1.41E-05	1.13E-05	No Reduct	No Reduct	1.82E-05	1.82E-05	1.41E-05
9000	1.82E-05	1.45E-05	No Reduct	No Reduct	2.34E-05	2.34E-05	1.74E-05	1.39E-05	No Reduct	No Reduct	2.25E-05	2.25E-05	1.74E-05	1.39E-05	No Reduct	No Reduct	2.24E-05	2.24E-05	1.74E-05
10000	9.06E-06	7.25E-06	No Reduct	No Reduct	1.17E-05	1.17E-05	1.22E-05	9.75E-06	No Reduct	No Reduct	1.57E-05	1.57E-05	1.22E-05	9.74E-06	No Reduct	No Reduct	1.57E-05	1.57E-05	1.21E-05
11000	7.26E-06	5.92E-06	No Reduct	No Reduct	9.66E-06	9.66E-06	7.7E-06	6.27E-06	No Reduct	No Reduct	1.02E-05	1.02E-05	7.69E-06	6.27E-06	No Reduct	No Reduct	1.02E-05	1.02E-05	7.68E-06
12000	6.27E-06	5.12E-06	No Reduct	No Reduct	8.36E-06	8.36E-06	8.15E-06	6.64E-06	No Reduct	No Reduct	1.09E-05	1.09E-05	8.14E-06	6.64E-06	No Reduct	No Reduct	1.08E-05	1.08E-05	8.13E-06
13000	3.78E-06	3.09E-06	No Reduct	No Reduct	5.05E-06	5.05E-06	5.83E-06	4.75E-06	No Reduct	No Reduct	7.77E-06	7.77E-06	5.82E-06	4.75E-06	No Reduct	No Reduct	7.76E-06	7.76E-06	5.81E-06
14000	9.22E-07	7.52E-07	No Reduct	No Reduct	1.23E-06	1.23E-06	1.31E-06	1.07E-06	No Reduct	No Reduct	1.75E-06	1.75E-06	1.31E-06	1.07E-06	No Reduct	No Reduct	1.75E-06	1.75E-06	1.31E-06
15000	1.25E-07	1.02E-07	No Reduct	No Reduct	1.67E-07	1.67E-07	2.14E-07	1.75E-07	No Reduct	No Reduct	2.86E-07	2.86E-07	2.14E-07	1.75E-07	No Reduct	No Reduct	2.86E-07	2.86E-07	2.14E-07

0.001183	No Reduct	No Reduct	0.00178	0.00178	0.001455	0.001189	No Reduct	No Reduct	0.001788	0.001788	0.001453	0.001187	No Reduct	No Reduct	0.001786	0.001786	0.001455	0.001189	No Reduct
0.004448	No Reduct	No Reduct	0.006722	0.006722	0.005405	0.004444	No Reduct	No Reduct	0.006716	0.006716	0.00541	0.004449	No Reduct	No Reduct	0.006723	0.006723	0.005409	0.004448	No Reduct
0.002583	No Reduct	No Reduct	0.003914	0.003914	0.003129	0.002583	No Reduct	No Reduct	0.003915	0.003915	0.003127	0.002582	No Reduct	No Reduct	0.003913	0.003913	0.003128	0.002583	No Reduct
0.000421	No Reduct	No Reduct	0.000639	0.000639	0.000508	0.00042	No Reduct	No Reduct	0.000638	0.000638	0.000507	0.00042	No Reduct	No Reduct	0.000637	0.000637	0.000508	0.000421	No Reduct
0.00053	No Reduct	No Reduct	0.000806	0.000806	0.000638	0.00053	No Reduct	No Reduct	0.000807	0.000807	0.000639	0.000531	No Reduct	No Reduct	0.000808	0.000808	0.000638	0.00053	No Reduct
5.97E-05	No Reduct	No Reduct	9.61E-05	9.61E-05	6.24E-05	5.96E-05	No Reduct	No Reduct	9.6E-05	9.6E-05	6.23E-05	5.95E-05	No Reduct	No Reduct	9.58E-05	9.58E-05	6.22E-05	5.95E-05	No Reduct
3.08E-05	No Reduct	No Reduct	4.97E-05	4.97E-05	3.22E-05	3.08E-05	No Reduct	No Reduct	4.96E-05	4.96E-05	3.22E-05	3.08E-05	No Reduct	No Reduct	4.95E-05	4.95E-05	3.21E-05	3.07E-05	No Reduct
1.12E-05	No Reduct	No Reduct	1.81E-05	1.81E-05	1.17E-05	1.12E-05	No Reduct	No Reduct	1.81E-05	1.81E-05	1.17E-05	1.12E-05	No Reduct	No Reduct	1.81E-05	1.81E-05	1.17E-05	1.12E-05	No Reduct
1.39E-05	No Reduct	No Reduct	2.24E-05	2.24E-05	1.45E-05	1.39E-05	No Reduct	No Reduct	2.24E-05	2.24E-05	1.45E-05	1.39E-05	No Reduct	No Reduct	2.23E-05	2.23E-05	1.44E-05	1.38E-05	No Reduct
9.72E-06	No Reduct	No Reduct	1.57E-05	1.57E-05	1.01E-05	9.71E-06	No Reduct	No Reduct	1.57E-05	1.57E-05	1.01E-05	9.69E-06	No Reduct	No Reduct	1.56E-05	1.56E-05	1.01E-05	9.68E-06	No Reduct
6.26E-06	No Reduct	No Reduct	1.02E-05	1.02E-05	6.4E-06	6.25E-06	No Reduct	No Reduct	1.02E-05	1.02E-05	6.39E-06	6.24E-06	No Reduct	No Reduct	1.02E-05	1.02E-05	6.38E-06	6.23E-06	No Reduct
6.63E-06	No Reduct	No Reduct	1.08E-05	1.08E-05	6.78E-06	6.62E-06	No Reduct	No Reduct	1.08E-05	1.08E-05	6.77E-06	6.61E-06	No Reduct	No Reduct	1.08E-05	1.08E-05	6.76E-06	6.6E-06	No Reduct
4.74E-06	No Reduct	No Reduct	7.75E-06	7.75E-06	4.85E-06	4.73E-06	No Reduct	No Reduct	7.74E-06	7.74E-06	4.84E-06	4.73E-06	No Reduct	No Reduct	7.72E-06	7.72E-06	4.83E-06	4.72E-06	No Reduct
1.07E-06	No Reduct	No Reduct	1.75E-06	1.75E-06	1.09E-06	1.07E-06	No Reduct	No Reduct	1.75E-06	1.74E-06	1.09E-06	1.07E-06	No Reduct	No Reduct	1.74E-06	1.74E-06	1.09E-06	1.06E-06	No Reduct
1.74E-07	No Reduct	No Reduct	2.85E-07	2.85E-07	1.78E-07	1.74E-07	No Reduct	No Reduct	2.85E-07	2.85E-07	1.78E-07	1.74E-07	No Reduct	No Reduct	2.84E-07	2.84E-07	1.78E-07	1.74E-07	No Reduct

2017						2018						2019						20	
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON
0.001183	No Reduct	No Reduct	0.00178	0.00178	0.001743	0.001189	No Reduct	No Reduct	0.001788	0.001788	0.00174	0.001187	No Reduct	No Reduct	0.001786	0.001786	0.001743	0.001189	No Reduct
0.004448	No Reduct	No Reduct	0.006722	0.006722	0.006473	0.004444	No Reduct	No Reduct	0.006716	0.006716	0.006479	0.004449	No Reduct	No Reduct	0.006723	0.006723	0.006478	0.004448	No Reduct
0.002583	No Reduct	No Reduct	0.003914	0.003914	0.003748	0.002583	No Reduct	No Reduct	0.003915	0.003915	0.003745	0.002582	No Reduct	No Reduct	0.003913	0.003913	0.003746	0.002583	No Reduct
0.000421	No Reduct	No Reduct	0.000639	0.000639	0.000608	0.00042	No Reduct	No Reduct	0.000638	0.000638	0.000607	0.00042	No Reduct	No Reduct	0.000637	0.000637	0.000609	0.000421	No Reduct
0.00053	No Reduct	No Reduct	0.000806	0.000806	0.000765	0.00053	No Reduct	No Reduct	0.000807	0.000807	0.000766	0.000531	No Reduct	No Reduct	0.000808	0.000808	0.000764	0.00053	No Reduct
5.97E-05	No Reduct	No Reduct	9.61E-05	9.61E-05	7.48E-05	5.96E-05	No Reduct	No Reduct	9.6E-05	9.6E-05	7.46E-05	5.95E-05	No Reduct	No Reduct	9.58E-05	9.58E-05	7.45E-05	5.95E-05	No Reduct
3.08E-05	No Reduct	No Reduct	4.97E-05	4.97E-05	3.86E-05	3.08E-05	No Reduct	No Reduct	4.96E-05	4.96E-05	3.85E-05	3.08E-05	No Reduct	No Reduct	4.95E-05	4.95E-05	3.85E-05	3.07E-05	No Reduct
1.12E-05	No Reduct	No Reduct	1.81E-05	1.81E-05	1.4E-05	1.12E-05	No Reduct	No Reduct	1.81E-05	1.81E-05	1.4E-05	1.12E-05	No Reduct	No Reduct	1.81E-05	1.81E-05	1.4E-05	1.12E-05	No Reduct
1.39E-05	No Reduct	No Reduct	2.24E-05	2.24E-05	1.73E-05	1.39E-05	No Reduct	No Reduct	2.24E-05	2.24E-05	1.73E-05	1.39E-05	No Reduct	No Reduct	2.23E-05	2.23E-05	1.73E-05	1.38E-05	No Reduct
9.72E-06	No Reduct	No Reduct	1.57E-05	1.57E-05	1.21E-05	9.71E-06	No Reduct	No Reduct	1.57E-05	1.57E-05	1.21E-05	9.69E-06	No Reduct	No Reduct	1.56E-05	1.56E-05	1.21E-05	9.68E-06	No Reduct
6.26E-06	No Reduct	No Reduct	1.02E-05	1.02E-05	7.67E-06	6.25E-06	No Reduct	No Reduct	1.02E-05	1.02E-05	7.65E-06	6.24E-06	No Reduct	No Reduct	1.02E-05	1.02E-05	7.64E-06	6.23E-06	No Reduct
6.63E-06	No Reduct	No Reduct	1.08E-05	1.08E-05	8.12E-06	6.62E-06	No Reduct	No Reduct	1.08E-05	1.08E-05	8.1E-06	6.61E-06	No Reduct	No Reduct	1.08E-05	1.08E-05	8.09E-06	6.6E-06	No Reduct
4.74E-06	No Reduct	No Reduct	7.75E-06	7.75E-06	5.8E-06	4.73E-06	No Reduct	No Reduct	7.74E-06	7.74E-06	5.79E-06	4.73E-06	No Reduct	No Reduct	7.72E-06	7.72E-06	5.79E-06	4.72E-06	No Reduct
1.07E-06	No Reduct	No Reduct	1.75E-06	1.75E-06	1.31E-06	1.07E-06	No Reduct	No Reduct	1.75E-06	1.74E-06	1.31E-06	1.07E-06	No Reduct	No Reduct	1.74E-06	1.74E-06	1.3E-06	1.06E-06	No Reduct
1.74E-07	No Reduct	No Reduct	2.85E-07	2.85E-07	2.13E-07	1.74E-07	No Reduct	No Reduct	2.85E-07	2.85E-07	2.13E-07	1.74E-07	No Reduct	No Reduct	2.84E-07	2.84E-07	2.13E-07	1.74E-07	No Reduct

No Reduct	0.001788	0.001788	0.001453	0.001187	No Reduct	No Reduct	0.001786	0.001786	0.001451	0.001185	No Reduct	No Reduct	0.001783	0.001783	0.001453	0.001187	No Reduct	No Reduct	0.001786
No Reduct	0.006721	0.006721	0.005407	0.004447	No Reduct	No Reduct	0.00672	0.00672	0.005416	0.004454	No Reduct	No Reduct	0.006731	0.006731	0.005418	0.004456	No Reduct	No Reduct	0.006733
No Reduct	0.003914	0.003914	0.003132	0.002585	No Reduct	No Reduct	0.003918	0.003918	0.00313	0.002584	No Reduct	No Reduct	0.003916	0.003916	0.003128	0.002582	No Reduct	No Reduct	0.003914
No Reduct	0.000639	0.000639	0.000508	0.00042	No Reduct	No Reduct	0.000638	0.000638	0.000507	0.00042	No Reduct	No Reduct	0.000637	0.000637	0.000508	0.000421	No Reduct	No Reduct	0.000639
No Reduct	0.000807	0.000807	0.000639	0.000531	No Reduct	No Reduct	0.000808	0.000808	0.000638	0.00053	No Reduct	No Reduct	0.000807	0.000807	0.000637	0.000529	No Reduct	No Reduct	0.000806
No Reduct	9.57E-05	9.57E-05	6.21E-05	5.94E-05	No Reduct	No Reduct	9.55E-05	9.55E-05	6.2E-05	5.93E-05	No Reduct	No Reduct	9.54E-05	9.54E-05	6.2E-05	5.92E-05	No Reduct	No Reduct	9.52E-05
No Reduct	4.94E-05	4.94E-05	3.21E-05	3.07E-05	No Reduct	No Reduct	4.94E-05	4.94E-05	3.2E-05	3.06E-05	No Reduct	No Reduct	4.93E-05	4.93E-05	3.2E-05	3.06E-05	No Reduct	No Reduct	4.92E-05
No Reduct	1.8E-05	1.8E-05	1.17E-05	1.12E-05	No Reduct	No Reduct	1.8E-05	1.8E-05	1.17E-05	1.12E-05	No Reduct	No Reduct	1.8E-05	1.8E-05	1.16E-05	1.11E-05	No Reduct	No Reduct	1.8E-05
No Reduct	2.23E-05	2.23E-05	1.44E-05	1.38E-05	No Reduct	No Reduct	2.23E-05	2.23E-05	1.44E-05	1.38E-05	No Reduct	No Reduct	2.22E-05	2.22E-05	1.44E-05	1.38E-05	No Reduct	No Reduct	2.22E-05
No Reduct	1.56E-05	1.56E-05	1.01E-05	9.66E-06	No Reduct	No Reduct	1.56E-05	1.56E-05	1.01E-05	9.65E-06	No Reduct	No Reduct	1.56E-05	1.56E-05	1E-05	9.63E-06	No Reduct	No Reduct	1.55E-05
No Reduct	1.02E-05	1.02E-05	6.37E-06	6.22E-06	No Reduct	No Reduct	1.02E-05	1.02E-05	6.36E-06	6.21E-06	No Reduct	No Reduct	1.01E-05	1.01E-05	6.35E-06	6.2E-06	No Reduct	No Reduct	1.01E-05
No Reduct	1.08E-05	1.08E-05	6.75E-06	6.59E-06	No Reduct	No Reduct	1.08E-05	1.08E-05	6.74E-06	6.58E-06	No Reduct	No Reduct	1.07E-05	1.07E-05	6.73E-06	6.57E-06	No Reduct	No Reduct	1.07E-05
No Reduct	7.71E-06	7.71E-06	4.82E-06	4.71E-06	No Reduct	No Reduct	7.7E-06	7.7E-06	4.82E-06	4.7E-06	No Reduct	No Reduct	7.69E-06	7.69E-06	4.81E-06	4.7E-06	No Reduct	No Reduct	7.68E-06
No Reduct	1.74E-06	1.74E-06	1.09E-06	1.06E-06	No Reduct	No Reduct	1.74E-06	1.74E-06	1.09E-06	1.06E-06	No Reduct	No Reduct	1.73E-06	1.73E-06	1.08E-06	1.06E-06	No Reduct	No Reduct	1.73E-06
No Reduct	2.84E-07	2.84E-07	1.77E-07	1.73E-07	No Reduct	No Reduct	2.83E-07	2.83E-07	1.77E-07	1.73E-07	No Reduct	No Reduct	2.83E-07	2.83E-07	1.77E-07	1.73E-07	No Reduct	No Reduct	2.83E-07

20						2021						2022						2023	
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON
No Reduct	0.001788	0.001788	0.00174	0.001187	No Reduct	No Reduct	0.001786	0.001786	0.001738	0.001185	No Reduct	No Reduct	0.001783	0.001783	0.00174	0.001187	No Reduct	No Reduct	0.001786
No Reduct	0.006721	0.006721	0.006476	0.004447	No Reduct	No Reduct	0.00672	0.00672	0.006487	0.004454	No Reduct	No Reduct	0.006731	0.006731	0.006489	0.004456	No Reduct	No Reduct	0.006733
No Reduct	0.003914	0.003914	0.003751	0.002585	No Reduct	No Reduct	0.003918	0.003918	0.003748	0.002584	No Reduct	No Reduct	0.003916	0.003916	0.003746	0.002582	No Reduct	No Reduct	0.003914
No Reduct	0.000639	0.000639	0.000608	0.00042	No Reduct	No Reduct	0.000638	0.000638	0.000607	0.00042	No Reduct	No Reduct	0.000637	0.000637	0.000609	0.000421	No Reduct	No Reduct	0.000639
No Reduct	0.000807	0.000807	0.000765	0.000531	No Reduct	No Reduct	0.000808	0.000808	0.000764	0.00053	No Reduct	No Reduct	0.000807	0.000807	0.000763	0.000529	No Reduct	No Reduct	0.000806
No Reduct	9.57E-05	9.57E-05	7.44E-05	5.94E-05	No Reduct	No Reduct	9.55E-05	9.55E-05	7.43E-05	5.93E-05	No Reduct	No Reduct	9.54E-05	9.54E-05	7.42E-05	5.92E-05	No Reduct	No Reduct	9.52E-05
No Reduct	4.94E-05	4.94E-05	3.84E-05	3.07E-05	No Reduct	No Reduct	4.94E-05	4.94E-05	3.83E-05	3.06E-05	No Reduct	No Reduct	4.93E-05	4.93E-05	3.83E-05	3.06E-05	No Reduct	No Reduct	4.92E-05
No Reduct	1.8E-05	1.8E-05	1.4E-05	1.12E-05	No Reduct	No Reduct	1.8E-05	1.8E-05	1.4E-05	1.12E-05	No Reduct	No Reduct	1.8E-05	1.8E-05	1.39E-05	1.11E-05	No Reduct	No Reduct	1.8E-05
No Reduct	2.23E-05	2.23E-05	1.73E-05	1.38E-05	No Reduct	No Reduct	2.23E-05	2.23E-05	1.72E-05	1.38E-05	No Reduct	No Reduct	2.22E-05	2.22E-05	1.72E-05	1.38E-05	No Reduct	No Reduct	2.22E-05
No Reduct	1.56E-05	1.56E-05	1.21E-05	9.66E-06	No Reduct	No Reduct	1.56E-05	1.56E-05	1.21E-05	9.65E-06	No Reduct	No Reduct	1.56E-05	1.56E-05	1.2E-05	9.63E-06	No Reduct	No Reduct	1.55E-05
No Reduct	1.02E-05	1.02E-05	7.63E-06	6.22E-06	No Reduct	No Reduct	1.02E-05	1.02E-05	7.62E-06	6.21E-06	No Reduct	No Reduct	1.01E-05	1.01E-05	7.61E-06	6.2E-06	No Reduct	No Reduct	1.01E-05
No Reduct	1.08E-05	1.08E-05	8.08E-06	6.59E-06	No Reduct	No Reduct	1.08E-05	1.08E-05	8.07E-06	6.58E-06	No Reduct	No Reduct	1.07E-05	1.07E-05	8.06E-06	6.57E-06	No Reduct	No Reduct	1.07E-05
No Reduct	7.71E-06	7.71E-06	5.78E-06	4.71E-06	No Reduct	No Reduct	7.7E-06	7.7E-06	5.77E-06	4.7E-06	No Reduct	No Reduct	7.69E-06	7.69E-06	5.76E-06	4.7E-06	No Reduct	No Reduct	7.68E-06
No Reduct	1.74E-06	1.74E-06	1.3E-06	1.06E-06	No Reduct	No Reduct	1.74E-06	1.74E-06	1.3E-06	1.06E-06	No Reduct	No Reduct	1.73E-06	1.73E-06	1.3E-06	1.06E-06	No Reduct	No Reduct	1.73E-06
No Reduct	2.84E-07	2.84E-07	2.12E-07	1.73E-07	No Reduct	No Reduct	2.83E-07	2.83E-07	2.12E-07	1.73E-07	No Reduct	No Reduct	2.83E-07	2.83E-07	2.12E-07	1.73E-07	No Reduct	No Reduct	2.83E-07

0.001786	0.001451	0.001185	No Reduct	No Reduct	0.001783	0.001783	0.001453	0.001187	No Reduct	No Reduct	0.001786	0.001786	0.001451	0.001185	No Reduct	No Reduct	0.001783	0.001783	0.001453
0.006733	0.005414	0.004452	No Reduct	No Reduct	0.006727	0.006727	0.005412	0.004451	No Reduct	No Reduct	0.006726	0.006726	0.005411	0.00445	No Reduct	No Reduct	0.006724	0.006724	0.005406
0.003914	0.003126	0.002581	No Reduct	No Reduct	0.003911	0.003911	0.003127	0.002581	No Reduct	No Reduct	0.003912	0.003912	0.003127	0.002582	No Reduct	No Reduct	0.003913	0.003913	0.003128
0.000639	0.000508	0.00042	No Reduct	No Reduct	0.000638	0.000638	0.000507	0.00042	No Reduct	No Reduct	0.000637	0.000637	0.000508	0.000421	No Reduct	No Reduct	0.000639	0.000639	0.000508
0.000806	0.00064	0.000531	No Reduct	No Reduct	0.000809	0.000809	0.000639	0.000531	No Reduct	No Reduct	0.000808	0.000808	0.000638	0.00053	No Reduct	No Reduct	0.000807	0.000807	0.000639
9.52E-05	6.32E-05	6.04E-05	No Reduct	No Reduct	9.72E-05	9.72E-05	6.32E-05	6.03E-05	No Reduct	No Reduct	9.71E-05	9.71E-05	6.31E-05	6.02E-05	No Reduct	No Reduct	9.69E-05	9.69E-05	6.3E-05
4.92E-05	3.19E-05	3.05E-05	No Reduct	No Reduct	4.92E-05	4.92E-05	3.24E-05	3.1E-05	No Reduct	No Reduct	5E-05	5E-05	3.24E-05	3.1E-05	No Reduct	No Reduct	4.99E-05	4.99E-05	3.23E-05
1.8E-05	1.16E-05	1.11E-05	No Reduct	No Reduct	1.79E-05	1.79E-05	1.16E-05	1.11E-05	No Reduct	No Reduct	1.79E-05	1.79E-05	1.16E-05	1.11E-05	No Reduct	No Reduct	1.79E-05	1.79E-05	1.16E-05
2.22E-05	1.44E-05	1.38E-05	No Reduct	No Reduct	2.22E-05	2.22E-05	1.43E-05	1.37E-05	No Reduct	No Reduct	2.21E-05	2.21E-05	1.43E-05	1.37E-05	No Reduct	No Reduct	2.21E-05	2.21E-05	1.47E-05
1.55E-05	1E-05	9.62E-06	No Reduct	No Reduct	1.55E-05	1.55E-05	1E-05	9.61E-06	No Reduct	No Reduct	1.55E-05	1.55E-05	1E-05	9.59E-06	No Reduct	No Reduct	1.55E-05	1.55E-05	9.99E-06
1.01E-05	6.34E-06	6.19E-06	No Reduct	No Reduct	1.01E-05	1.01E-05	6.33E-06	6.18E-06	No Reduct	No Reduct	1.01E-05	1.01E-05	6.32E-06	6.17E-06	No Reduct	No Reduct	1.01E-05	1.01E-05	6.32E-06
1.07E-05	6.72E-06	6.56E-06	No Reduct	No Reduct	1.07E-05	1.07E-05	6.71E-06	6.55E-06	No Reduct	No Reduct	1.07E-05	1.07E-05	6.7E-06	6.54E-06	No Reduct	No Reduct	1.07E-05	1.07E-05	6.69E-06
7.68E-06	4.8E-06	4.69E-06	No Reduct	No Reduct	7.67E-06	7.67E-06	4.8E-06	4.68E-06	No Reduct	No Reduct	7.66E-06	7.66E-06	4.92E-06	4.81E-06	No Reduct	No Reduct	7.86E-06	7.86E-06	4.91E-06
1.73E-06	1.08E-06	1.06E-06	No Reduct	No Reduct	1.73E-06	1.73E-06	1.08E-06	1.06E-06	No Reduct	No Reduct	1.73E-06	1.73E-06	1.08E-06	1.05E-06	No Reduct	No Reduct	1.72E-06	1.72E-06	1.08E-06
2.83E-07	1.77E-07	1.73E-07	No Reduct	No Reduct	2.82E-07	2.82E-07	1.76E-07	1.72E-07	No Reduct	No Reduct	2.82E-07	2.82E-07	1.76E-07	1.72E-07	No Reduct	No Reduct	2.81E-07	2.81E-07	1.76E-07

2024						2025						2026						
PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
0.001786	0.001738	0.001185	No Reduct	No Reduct	0.001783	0.001783	0.00174	0.001187	No Reduct	No Reduct	0.001786	0.001786	0.001738	0.001185	No Reduct	No Reduct	0.001783	0.001783	0.001741
0.006733	0.006484	0.004452	No Reduct	No Reduct	0.006727	0.006727	0.006482	0.004451	No Reduct	No Reduct	0.006726	0.006726	0.006481	0.00445	No Reduct	No Reduct	0.006724	0.006724	0.006475
0.003914	0.003744	0.002581	No Reduct	No Reduct	0.003911	0.003911	0.003745	0.002581	No Reduct	No Reduct	0.003912	0.003912	0.003746	0.002582	No Reduct	No Reduct	0.003913	0.003913	0.003747
0.000639	0.000608	0.00042	No Reduct	No Reduct	0.000638	0.000638	0.000607	0.00042	No Reduct	No Reduct	0.000637	0.000637	0.000609	0.000421	No Reduct	No Reduct	0.000639	0.000639	0.000608
0.000806	0.000766	0.000531	No Reduct	No Reduct	0.000809	0.000809	0.000765	0.000531	No Reduct	No Reduct	0.000808	0.000808	0.000764	0.00053	No Reduct	No Reduct	0.000807	0.000807	0.000765
9.52E-05	7.58E-05	6.04E-05	No Reduct	No Reduct	9.72E-05	9.72E-05	7.56E-05	6.03E-05	No Reduct	No Reduct	9.71E-05	9.71E-05	7.55E-05	6.02E-05	No Reduct	No Reduct	9.69E-05	9.69E-05	7.54E-05
4.92E-05	3.82E-05	3.05E-05	No Reduct	No Reduct	4.92E-05	4.92E-05	3.89E-05	3.1E-05	No Reduct	No Reduct	5E-05	5E-05	3.88E-05	3.1E-05	No Reduct	No Reduct	4.99E-05	4.99E-05	3.87E-05
1.8E-05	1.39E-05	1.11E-05	No Reduct	No Reduct	1.79E-05	1.79E-05	1.39E-05	1.11E-05	No Reduct	No Reduct	1.79E-05	1.79E-05	1.39E-05	1.11E-05	No Reduct	No Reduct	1.79E-05	1.79E-05	1.39E-05
2.22E-05	1.72E-05	1.38E-05	No Reduct	No Reduct	2.22E-05	2.22E-05	1.72E-05	1.37E-05	No Reduct	No Reduct	2.21E-05	2.21E-05	1.71E-05	1.37E-05	No Reduct	No Reduct	2.21E-05	2.21E-05	1.76E-05
1.55E-05	1.2E-05	9.62E-06	No Reduct	No Reduct	1.55E-05	1.55E-05	1.2E-05	9.61E-06	No Reduct	No Reduct	1.55E-05	1.55E-05	1.2E-05	9.59E-06	No Reduct	No Reduct	1.55E-05	1.55E-05	1.2E-05
1.01E-05	7.6E-06	6.19E-06	No Reduct	No Reduct	1.01E-05	1.01E-05	7.59E-06	6.18E-06	No Reduct	No Reduct	1.01E-05	1.01E-05	7.57E-06	6.17E-06	No Reduct	No Reduct	1.01E-05	1.01E-05	7.56E-06
1.07E-05	8.04E-06	6.56E-06	No Reduct	No Reduct	1.07E-05	1.07E-05	8.03E-06	6.55E-06	No Reduct	No Reduct	1.07E-05	1.07E-05	8.02E-06	6.54E-06	No Reduct	No Reduct	1.07E-05	1.07E-05	8.01E-06
7.68E-06	5.75E-06	4.69E-06	No Reduct	No Reduct	7.67E-06	7.67E-06	5.74E-06	4.68E-06	No Reduct	No Reduct	7.66E-06	7.66E-06	5.89E-06	4.81E-06	No Reduct	No Reduct	7.86E-06	7.86E-06	5.88E-06
1.73E-06	1.3E-06	1.06E-06	No Reduct	No Reduct	1.73E-06	1.73E-06	1.29E-06	1.06E-06	No Reduct	No Reduct	1.73E-06	1.73E-06	1.29E-06	1.05E-06	No Reduct	No Reduct	1.72E-06	1.72E-06	1.29E-06
2.83E-07	2.12E-07	1.73E-07	No Reduct	No Reduct	2.82E-07	2.82E-07	2.11E-07	1.72E-07	No Reduct	No Reduct	2.82E-07	2.82E-07	2.11E-07	1.72E-07	No Reduct	No Reduct	2.81E-07	2.81E-07	2.11E-07

0.001187	No Reduct	No Reduct	0.001786	0.001786	0.001451	0.001186	No Reduct	No Reduct	0.001783	0.001783	0.001453	0.001187	No Reduct	No Reduct	0.001786	0.001786	0.001451	0.001186	No Reduct
0.004446	No Reduct	No Reduct	0.006718	0.006718	0.005412	0.00445	No Reduct	No Reduct	0.006725	0.006725	0.005411	0.004449	No Reduct	No Reduct	0.006723	0.006723	0.005413	0.004451	No Reduct
0.002583	No Reduct	No Reduct	0.003914	0.003914	0.003129	0.002583	No Reduct	No Reduct	0.003915	0.003915	0.00313	0.002584	No Reduct	No Reduct	0.003916	0.003916	0.003128	0.002582	No Reduct
0.00042	No Reduct	No Reduct	0.000638	0.000638	0.000507	0.00042	No Reduct	No Reduct	0.000637	0.000637	0.000506	0.000419	No Reduct	No Reduct	0.000636	0.000636	0.000508	0.00042	No Reduct
0.00053	No Reduct	No Reduct	0.000808	0.000808	0.000638	0.00053	No Reduct	No Reduct	0.000806	0.000806	0.000638	0.00053	No Reduct	No Reduct	0.000807	0.000807	0.000639	0.000531	No Reduct
6.02E-05	No Reduct	No Reduct	9.68E-05	9.68E-05	6.29E-05	6.01E-05	No Reduct	No Reduct	9.67E-05	9.67E-05	6.28E-05	6E-05	No Reduct	No Reduct	9.65E-05	9.65E-05	6.27E-05	5.99E-05	No Reduct
3.09E-05	No Reduct	No Reduct	4.98E-05	4.98E-05	3.23E-05	3.09E-05	No Reduct	No Reduct	4.97E-05	4.97E-05	3.23E-05	3.08E-05	No Reduct	No Reduct	4.97E-05	4.97E-05	3.22E-05	3.08E-05	No Reduct
1.11E-05	No Reduct	No Reduct	1.79E-05	1.79E-05	1.16E-05	1.11E-05	No Reduct	No Reduct	1.78E-05	1.78E-05	1.15E-05	1.1E-05	No Reduct	No Reduct	1.78E-05	1.78E-05	1.15E-05	1.1E-05	No Reduct
1.41E-05	No Reduct	No Reduct	2.27E-05	2.27E-05	1.47E-05	1.4E-05	No Reduct	No Reduct	2.26E-05	2.26E-05	1.46E-05	1.4E-05	No Reduct	No Reduct	2.26E-05	2.26E-05	1.46E-05	1.4E-05	No Reduct
9.58E-06	No Reduct	No Reduct	1.55E-05	1.55E-05	9.97E-06	9.56E-06	No Reduct	No Reduct	1.54E-05	1.54E-05	9.96E-06	9.55E-06	No Reduct	No Reduct	1.54E-05	1.54E-05	9.94E-06	9.53E-06	No Reduct
6.16E-06	No Reduct	No Reduct	1.01E-05	1.01E-05	6.31E-06	6.16E-06	No Reduct	No Reduct	1.01E-05	1.01E-05	6.3E-06	6.15E-06	No Reduct	No Reduct	1E-05	1E-05	6.29E-06	6.14E-06	No Reduct
6.53E-06	No Reduct	No Reduct	1.07E-05	1.07E-05	6.68E-06	6.52E-06	No Reduct	No Reduct	1.07E-05	1.07E-05	6.67E-06	6.51E-06	No Reduct	No Reduct	1.06E-05	1.06E-05	6.66E-06	6.5E-06	No Reduct
4.8E-06	No Reduct	No Reduct	7.85E-06	7.85E-06	4.91E-06	4.79E-06	No Reduct	No Reduct	7.83E-06	7.83E-06	4.9E-06	4.79E-06	No Reduct	No Reduct	7.82E-06	7.82E-06	4.89E-06	4.78E-06	No Reduct
1.05E-06	No Reduct	No Reduct	1.72E-06	1.72E-06	1.08E-06	1.05E-06	No Reduct	No Reduct	1.72E-06	1.72E-06	1.07E-06	1.05E-06	No Reduct	No Reduct	1.72E-06	1.72E-06	1.07E-06	1.05E-06	No Reduct
1.72E-07	No Reduct	No Reduct	2.81E-07	2.81E-07	1.76E-07	1.72E-07	No Reduct	No Reduct	2.81E-07	2.81E-07	1.75E-07	1.71E-07	No Reduct	No Reduct	2.8E-07	2.8E-07	1.75E-07	1.71E-07	No Reduct

2027						2028						2029						20
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON
0.001187	No Reduct	No Reduct	0.001786	0.001786	0.001738	0.001186	No Reduct	No Reduct	0.001783	0.001783	0.001741	0.001187	No Reduct	No Reduct	0.001786	0.001786	0.001738	0.001186	No Reduct
0.004446	No Reduct	No Reduct	0.006718	0.006718	0.006482	0.00445	No Reduct	No Reduct	0.006725	0.006725	0.00648	0.004449	No Reduct	No Reduct	0.006723	0.006723	0.006482	0.004451	No Reduct
0.002583	No Reduct	No Reduct	0.003914	0.003914	0.003748	0.002583	No Reduct	No Reduct	0.003915	0.003915	0.003748	0.002584	No Reduct	No Reduct	0.003916	0.003916	0.003746	0.002582	No Reduct
0.00042	No Reduct	No Reduct	0.000638	0.000638	0.000607	0.00042	No Reduct	No Reduct	0.000637	0.000637	0.000606	0.000419	No Reduct	No Reduct	0.000636	0.000636	0.000608	0.00042	No Reduct
0.00053	No Reduct	No Reduct	0.000808	0.000808	0.000764	0.00053	No Reduct	No Reduct	0.000806	0.000806	0.000765	0.00053	No Reduct	No Reduct	0.000807	0.000807	0.000765	0.000531	No Reduct
6.02E-05	No Reduct	No Reduct	9.68E-05	9.68E-05	7.53E-05	6.01E-05	No Reduct	No Reduct	9.67E-05	9.67E-05	7.52E-05	6E-05	No Reduct	No Reduct	9.65E-05	9.65E-05	7.51E-05	5.99E-05	No Reduct
3.09E-05	No Reduct	No Reduct	4.98E-05	4.98E-05	3.87E-05	3.09E-05	No Reduct	No Reduct	4.97E-05	4.97E-05	3.86E-05	3.08E-05	No Reduct	No Reduct	4.97E-05	4.97E-05	3.86E-05	3.08E-05	No Reduct
1.11E-05	No Reduct	No Reduct	1.79E-05	1.79E-05	1.38E-05	1.11E-05	No Reduct	No Reduct	1.78E-05	1.78E-05	1.38E-05	1.1E-05	No Reduct	No Reduct	1.78E-05	1.78E-05	1.38E-05	1.1E-05	No Reduct
1.41E-05	No Reduct	No Reduct	2.27E-05	2.27E-05	1.76E-05	1.4E-05	No Reduct	No Reduct	2.26E-05	2.26E-05	1.75E-05	1.4E-05	No Reduct	No Reduct	2.26E-05	2.26E-05	1.75E-05	1.4E-05	No Reduct
9.58E-06	No Reduct	No Reduct	1.55E-05	1.55E-05	1.19E-05	9.56E-06	No Reduct	No Reduct	1.54E-05	1.54E-05	1.19E-05	9.55E-06	No Reduct	No Reduct	1.54E-05	1.54E-05	1.19E-05	9.53E-06	No Reduct
6.16E-06	No Reduct	No Reduct	1.01E-05	1.01E-05	7.55E-06	6.16E-06	No Reduct	No Reduct	1.01E-05	1.01E-05	7.54E-06	6.15E-06	No Reduct	No Reduct	1E-05	1E-05	7.53E-06	6.14E-06	No Reduct
6.53E-06	No Reduct	No Reduct	1.07E-05	1.07E-05	8E-06	6.52E-06	No Reduct	No Reduct	1.07E-05	1.07E-05	7.98E-06	6.51E-06	No Reduct	No Reduct	1.06E-05	1.06E-05	7.97E-06	6.5E-06	No Reduct
4.8E-06	No Reduct	No Reduct	7.85E-06	7.85E-06	5.88E-06	4.79E-06	No Reduct	No Reduct	7.83E-06	7.83E-06	5.87E-06	4.79E-06	No Reduct	No Reduct	7.82E-06	7.82E-06	5.86E-06	4.78E-06	No Reduct
1.05E-06	No Reduct	No Reduct	1.72E-06	1.72E-06	1.29E-06	1.05E-06	No Reduct	No Reduct	1.72E-06	1.72E-06	1.29E-06	1.05E-06	No Reduct	No Reduct	1.72E-06	1.72E-06	1.29E-06	1.05E-06	No Reduct
1.72E-07	No Reduct	No Reduct	2.81E-07	2.81E-07	2.1E-07	1.72E-07	No Reduct	No Reduct	2.81E-07	2.81E-07	2.1E-07	1.71E-07	No Reduct	No Reduct	2.8E-07	2.8E-07	2.1E-07	1.71E-07	No Reduct

No Reduct	0.001784	0.001784	0.001449	0.001184	No Reduct	No Reduct	0.001781	0.001781	0.001456	0.001189	No Reduct	No Reduct	0.001789	0.001789	0.001454	0.001188	No Reduct	No Reduct	0.001787
No Reduct	0.006726	0.006726	0.005415	0.004452	No Reduct	No Reduct	0.006729	0.006729	0.00541	0.004449	No Reduct	No Reduct	0.006723	0.006723	0.005403	0.004443	No Reduct	No Reduct	0.006715
No Reduct	0.003914	0.003914	0.003129	0.002583	No Reduct	No Reduct	0.003915	0.003915	0.003129	0.002584	No Reduct	No Reduct	0.003916	0.003916	0.003131	0.002585	No Reduct	No Reduct	0.003918
No Reduct	0.000638	0.000638	0.000507	0.00042	No Reduct	No Reduct	0.000637	0.000637	0.000508	0.000421	No Reduct	No Reduct	0.000639	0.000639	0.000508	0.00042	No Reduct	No Reduct	0.000638
No Reduct	0.000808	0.000808	0.000638	0.00053	No Reduct	No Reduct	0.000807	0.000807	0.000637	0.000529	No Reduct	No Reduct	0.000806	0.000806	0.000638	0.00053	No Reduct	No Reduct	0.000807
No Reduct	9.64E-05	9.64E-05	6.26E-05	5.98E-05	No Reduct	No Reduct	9.62E-05	9.62E-05	6.25E-05	5.97E-05	No Reduct	No Reduct	9.61E-05	9.61E-05	6.24E-05	5.96E-05	No Reduct	No Reduct	9.6E-05
No Reduct	4.96E-05	4.96E-05	3.22E-05	3.08E-05	No Reduct	No Reduct	4.95E-05	4.95E-05	3.21E-05	3.07E-05	No Reduct	No Reduct	4.95E-05	4.95E-05	3.21E-05	3.07E-05	No Reduct	No Reduct	4.94E-05
No Reduct	1.78E-05	1.78E-05	1.15E-05	1.1E-05	No Reduct	No Reduct	1.78E-05	1.78E-05	1.15E-05	1.1E-05	No Reduct	No Reduct	1.77E-05	1.77E-05	1.19E-05	1.14E-05	No Reduct	No Reduct	1.84E-05
No Reduct	2.26E-05	2.26E-05	1.46E-05	1.4E-05	No Reduct	No Reduct	2.25E-05	2.25E-05	1.46E-05	1.4E-05	No Reduct	No Reduct	2.25E-05	2.25E-05	1.46E-05	1.39E-05	No Reduct	No Reduct	2.25E-05
No Reduct	1.54E-05	1.54E-05	9.93E-06	9.52E-06	No Reduct	No Reduct	1.54E-05	1.54E-05	9.91E-06	9.51E-06	No Reduct	No Reduct	1.53E-05	1.53E-05	9.9E-06	9.5E-06	No Reduct	No Reduct	1.53E-05
No Reduct	1E-05	1E-05	6.48E-06	6.33E-06	No Reduct	No Reduct	1.03E-05	1.03E-05	6.47E-06	6.32E-06	No Reduct	No Reduct	1.03E-05	1.03E-05	6.46E-06	6.31E-06	No Reduct	No Reduct	1.03E-05
No Reduct	1.06E-05	1.06E-05	6.65E-06	6.49E-06	No Reduct	No Reduct	1.06E-05	1.06E-05	6.64E-06	6.48E-06	No Reduct	No Reduct	1.06E-05	1.06E-05	6.79E-06	6.63E-06	No Reduct	No Reduct	1.08E-05
No Reduct	7.81E-06	7.81E-06	4.88E-06	4.77E-06	No Reduct	No Reduct	7.8E-06	7.8E-06	4.88E-06	4.76E-06	No Reduct	No Reduct	7.79E-06	7.79E-06	4.87E-06	4.76E-06	No Reduct	No Reduct	7.78E-06
No Reduct	1.71E-06	1.71E-06	1.07E-06	1.05E-06	No Reduct	No Reduct	1.71E-06	1.71E-06	1.07E-06	1.05E-06	No Reduct	No Reduct	1.71E-06	1.71E-06	1.07E-06	1.04E-06	No Reduct	No Reduct	1.71E-06
No Reduct	2.8E-07	2.8E-07	1.75E-07	1.71E-07	No Reduct	No Reduct	2.79E-07	2.79E-07	1.75E-07	1.71E-07	No Reduct	No Reduct	2.79E-07	2.79E-07	1.74E-07	1.7E-07	No Reduct	No Reduct	2.79E-07

30						2031						2032						2033	
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON
No Reduct	0.001784	0.001784	0.001735	0.001184	No Reduct	No Reduct	0.001781	0.001781	0.001743	0.001189	No Reduct	No Reduct	0.001789	0.001789	0.001741	0.001188	No Reduct	No Reduct	0.001787
No Reduct	0.006726	0.006726	0.006485	0.004452	No Reduct	No Reduct	0.006729	0.006729	0.006479	0.004449	No Reduct	No Reduct	0.006723	0.006723	0.006471	0.004443	No Reduct	No Reduct	0.006715
No Reduct	0.003914	0.003914	0.003747	0.002583	No Reduct	No Reduct	0.003915	0.003915	0.003748	0.002584	No Reduct	No Reduct	0.003916	0.003916	0.00375	0.002585	No Reduct	No Reduct	0.003918
No Reduct	0.000638	0.000638	0.000607	0.00042	No Reduct	No Reduct	0.000637	0.000637	0.000609	0.000421	No Reduct	No Reduct	0.000639	0.000639	0.000608	0.00042	No Reduct	No Reduct	0.000638
No Reduct	0.000808	0.000808	0.000764	0.00053	No Reduct	No Reduct	0.000807	0.000807	0.000763	0.000529	No Reduct	No Reduct	0.000806	0.000806	0.000764	0.00053	No Reduct	No Reduct	0.000807
No Reduct	9.64E-05	9.64E-05	7.5E-05	5.98E-05	No Reduct	No Reduct	9.62E-05	9.62E-05	7.49E-05	5.97E-05	No Reduct	No Reduct	9.61E-05	9.61E-05	7.48E-05	5.96E-05	No Reduct	No Reduct	9.6E-05
No Reduct	4.96E-05	4.96E-05	3.85E-05	3.08E-05	No Reduct	No Reduct	4.95E-05	4.95E-05	3.85E-05	3.07E-05	No Reduct	No Reduct	4.95E-05	4.95E-05	3.84E-05	3.07E-05	No Reduct	No Reduct	4.94E-05
No Reduct	1.78E-05	1.78E-05	1.38E-05	1.1E-05	No Reduct	No Reduct	1.78E-05	1.78E-05	1.38E-05	1.1E-05	No Reduct	No Reduct	1.77E-05	1.77E-05	1.43E-05	1.14E-05	No Reduct	No Reduct	1.84E-05
No Reduct	2.26E-05	2.26E-05	1.75E-05	1.4E-05	No Reduct	No Reduct	2.25E-05	2.25E-05	1.74E-05	1.4E-05	No Reduct	No Reduct	2.25E-05	2.25E-05	1.74E-05	1.39E-05	No Reduct	No Reduct	2.25E-05
No Reduct	1.54E-05	1.54E-05	1.19E-05	9.52E-06	No Reduct	No Reduct	1.54E-05	1.54E-05	1.19E-05	9.51E-06	No Reduct	No Reduct	1.53E-05	1.53E-05	1.19E-05	9.5E-06	No Reduct	No Reduct	1.53E-05
No Reduct	1E-05	1E-05	7.76E-06	6.33E-06	No Reduct	No Reduct	1.03E-05	1.03E-05	7.75E-06	6.32E-06	No Reduct	No Reduct	1.03E-05	1.03E-05	7.74E-06	6.31E-06	No Reduct	No Reduct	1.03E-05
No Reduct	1.06E-05	1.06E-05	7.96E-06	6.49E-06	No Reduct	No Reduct	1.06E-05	1.06E-05	7.95E-06	6.48E-06	No Reduct	No Reduct	1.06E-05	1.06E-05	8.13E-06	6.63E-06	No Reduct	No Reduct	1.08E-05
No Reduct	7.81E-06	7.81E-06	5.85E-06	4.77E-06	No Reduct	No Reduct	7.8E-06	7.8E-06	5.84E-06	4.76E-06	No Reduct	No Reduct	7.79E-06	7.79E-06	5.83E-06	4.76E-06	No Reduct	No Reduct	7.78E-06
No Reduct	1.71E-06	1.71E-06	1.28E-06	1.05E-06	No Reduct	No Reduct	1.71E-06	1.71E-06	1.28E-06	1.05E-06	No Reduct	No Reduct	1.71E-06	1.71E-06	1.28E-06	1.04E-06	No Reduct	No Reduct	1.71E-06
No Reduct	2.8E-07	2.8E-07	2.09E-07	1.71E-07	No Reduct	No Reduct	2.79E-07	2.79E-07	2.09E-07	1.71E-07	No Reduct	No Reduct	2.79E-07	2.79E-07	2.09E-07	1.7E-07	No Reduct	No Reduct	2.79E-07

0.001787	0.001456	0.00119	No Reduct	No Reduct	0.00179	0.00179	0.001454	0.001188	No Reduct	No Reduct	0.001787	0.001787
0.006715	0.005405	0.004445	No Reduct	No Reduct	0.006717	0.006717	0.005407	0.004447	No Reduct	No Reduct	0.00672	0.00672
0.003918	0.003132	0.002586	No Reduct	No Reduct	0.003919	0.003919	0.003133	0.002586	No Reduct	No Reduct	0.00392	0.00392
0.000638	0.000507	0.00042	No Reduct	No Reduct	0.000638	0.000638	0.000506	0.000419	No Reduct	No Reduct	0.000637	0.000637
0.000807	0.000637	0.000529	No Reduct	No Reduct	0.000806	0.000806	0.000638	0.00053	No Reduct	No Reduct	0.000807	0.000807
9.6E-05	6.23E-05	5.95E-05	No Reduct	No Reduct	9.58E-05	9.58E-05	6.22E-05	5.95E-05	No Reduct	No Reduct	9.57E-05	9.57E-05
4.94E-05	3.2E-05	3.06E-05	No Reduct	No Reduct	4.93E-05	4.93E-05	3.2E-05	3.06E-05	No Reduct	No Reduct	4.92E-05	4.92E-05
1.84E-05	1.19E-05	1.14E-05	No Reduct	No Reduct	1.84E-05	1.84E-05	1.19E-05	1.14E-05	No Reduct	No Reduct	1.84E-05	1.84E-05
2.25E-05	1.45E-05	1.39E-05	No Reduct	No Reduct	2.24E-05	2.24E-05	1.45E-05	1.39E-05	No Reduct	No Reduct	2.24E-05	2.24E-05
1.53E-05	9.89E-06	9.48E-06	No Reduct	No Reduct	1.53E-05	1.53E-05	9.87E-06	9.47E-06	No Reduct	No Reduct	1.53E-05	1.53E-05
1.03E-05	6.45E-06	6.3E-06	No Reduct	No Reduct	1.03E-05	1.03E-05	6.44E-06	6.29E-06	No Reduct	No Reduct	1.03E-05	1.03E-05
1.08E-05	6.78E-06	6.62E-06	No Reduct	No Reduct	1.08E-05	1.08E-05	6.77E-06	6.61E-06	No Reduct	No Reduct	1.08E-05	1.08E-05
7.78E-06	4.86E-06	4.75E-06	No Reduct	No Reduct	7.77E-06	7.77E-06	4.86E-06	4.74E-06	No Reduct	No Reduct	7.75E-06	7.75E-06
1.71E-06	1.07E-06	1.04E-06	No Reduct	No Reduct	1.7E-06	1.7E-06	1.07E-06	1.04E-06	No Reduct	No Reduct	1.7E-06	1.7E-06
2.79E-07	1.74E-07	1.7E-07	No Reduct	No Reduct	2.78E-07	2.78E-07	1.74E-07	1.7E-07	No Reduct	No Reduct	2.78E-07	2.78E-07

	2034						2035				
PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
0.001787	0.001744	0.00119	No Reduct	No Reduct	0.00179	0.00179	0.001741	0.001188	No Reduct	No Reduct	0.001787	0.001787
0.006715	0.006474	0.004445	No Reduct	No Reduct	0.006717	0.006717	0.006476	0.004447	No Reduct	No Reduct	0.00672	0.00672
0.003918	0.003751	0.002586	No Reduct	No Reduct	0.003919	0.003919	0.003752	0.002586	No Reduct	No Reduct	0.00392	0.00392
0.000638	0.000607	0.00042	No Reduct	No Reduct	0.000638	0.000638	0.000606	0.000419	No Reduct	No Reduct	0.000637	0.000637
0.000807	0.000763	0.000529	No Reduct	No Reduct	0.000806	0.000806	0.000764	0.00053	No Reduct	No Reduct	0.000807	0.000807
9.6E-05	7.47E-05	5.95E-05	No Reduct	No Reduct	9.58E-05	9.58E-05	7.45E-05	5.95E-05	No Reduct	No Reduct	9.57E-05	9.57E-05
4.94E-05	3.84E-05	3.06E-05	No Reduct	No Reduct	4.93E-05	4.93E-05	3.83E-05	3.06E-05	No Reduct	No Reduct	4.92E-05	4.92E-05
1.84E-05	1.43E-05	1.14E-05	No Reduct	No Reduct	1.84E-05	1.84E-05	1.43E-05	1.14E-05	No Reduct	No Reduct	1.84E-05	1.84E-05
2.25E-05	1.74E-05	1.39E-05	No Reduct	No Reduct	2.24E-05	2.24E-05	1.74E-05	1.39E-05	No Reduct	No Reduct	2.24E-05	2.24E-05
1.53E-05	1.18E-05	9.48E-06	No Reduct	No Reduct	1.53E-05	1.53E-05	1.18E-05	9.47E-06	No Reduct	No Reduct	1.53E-05	1.53E-05
1.03E-05	7.73E-06	6.3E-06	No Reduct	No Reduct	1.03E-05	1.03E-05	7.72E-06	6.29E-06	No Reduct	No Reduct	1.03E-05	1.03E-05
1.08E-05	8.12E-06	6.62E-06	No Reduct	No Reduct	1.08E-05	1.08E-05	8.11E-06	6.61E-06	No Reduct	No Reduct	1.08E-05	1.08E-05
7.78E-06	5.83E-06	4.75E-06	No Reduct	No Reduct	7.77E-06	7.77E-06	5.82E-06	4.74E-06	No Reduct	No Reduct	7.75E-06	7.75E-06
1.71E-06	1.28E-06	1.04E-06	No Reduct	No Reduct	1.7E-06	1.7E-06	1.28E-06	1.04E-06	No Reduct	No Reduct	1.7E-06	1.7E-06
2.79E-07	2.08E-07	1.7E-07	No Reduct	No Reduct	2.78E-07	2.78E-07	2.08E-07	1.7E-07	No Reduct	No Reduct	2.78E-07	2.78E-07

Final % Reduction

		NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
	1000	0.16%	0.13%	No Reduct	No Reduct	0.20%	0.20%
	2000	0.57%	0.47%	No Reduct	No Reduct	0.70%	0.70%
	3000	0.30%	0.25%	No Reduct	No Reduct	0.38%	0.38%
	4000	0.05%	0.04%	No Reduct	No Reduct	0.06%	0.06%
	5000	0.06%	0.05%	No Reduct	No Reduct	0.08%	0.08%
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%
	7000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
2012	8000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	9000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	10000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	11000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	1000	0.15%	0.12%	No Reduct	No Reduct	0.18%	0.18%
	2000	0.54%	0.44%	No Reduct	No Reduct	0.67%	0.67%
	3000	0.31%	0.26%	No Reduct	No Reduct	0.39%	0.39%
	4000	0.05%	0.04%	No Reduct	No Reduct	0.06%	0.06%
	5000	0.06%	0.05%	No Reduct	No Reduct	0.08%	0.08%
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%
	7000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
2015	8000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	9000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	10000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	11000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	1000	0.15%	0.12%	No Reduct	No Reduct	0.18%	0.18%
	2000	0.54%	0.44%	No Reduct	No Reduct	0.67%	0.67%
	3000	0.31%	0.26%	No Reduct	No Reduct	0.39%	0.39%
	4000	0.05%	0.04%	No Reduct	No Reduct	0.06%	0.06%
	5000	0.06%	0.05%	No Reduct	No Reduct	0.08%	0.08%
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%
	7000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
2016	8000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	9000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	10000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	11000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	1000	0.14%	0.12%	No Reduct	No Reduct	0.18%	0.18%

Drilling Emissions in Lbs/Well Drilled

CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB
2012	001000	Construction	C.1 Well Drilling	889.3949598	52.74499254
2012	002000	Construction	C.1 Well Drilling	1165.785878	68.6565032
2012	003000	Construction	C.1 Well Drilling	1442.176795	84.56801385
2012	004000	Construction	C.1 Well Drilling	1718.567713	100.4795245
2012	005000	Construction	C.1 Well Drilling	2271.349549	132.3025458
2012	006000	Construction	C.1 Well Drilling	5143.498427	247.3684469
2012	007000	Construction	C.1 Well Drilling	6160.153671	295.8400441
2012	008000	Construction	C.1 Well Drilling	7685.136537	368.54744
2012	009000	Construction	C.1 Well Drilling	9210.119402	441.2548359
2012	010000	Construction	C.1 Well Drilling	11751.75751	562.433829
2012	011000	Construction	C.1 Well Drilling	17376.84905	812.3437041
2012	012000	Construction	C.1 Well Drilling	21706.00576	1014.177015
2012	013000	Construction	C.1 Well Drilling	26653.61343	1244.843656
2012	014000	Construction	C.1 Well Drilling	32838.12301	1533.176957
2012	015000	Construction	C.1 Well Drilling	40259.53452	1879.176919
2015	001000	Construction	C.1 Well Drilling	802.5835351	48.79234205
2015	002000	Construction	C.1 Well Drilling	1051.798768	63.53247208
2015	003000	Construction	C.1 Well Drilling	1301.014	78.27260212
2015	004000	Construction	C.1 Well Drilling	1550.229233	93.01273216
2015	005000	Construction	C.1 Well Drilling	2048.659698	122.4929922
2015	006000	Construction	C.1 Well Drilling	5123.472228	266.380754
2015	007000	Construction	C.1 Well Drilling	6137.179107	318.7425144
2015	008000	Construction	C.1 Well Drilling	7657.739424	397.285155
2015	009000	Construction	C.1 Well Drilling	9178.299741	475.8277956
2015	010000	Construction	C.1 Well Drilling	11712.56694	606.7321966
2015	011000	Construction	C.1 Well Drilling	17402.30073	885.5183604
2015	012000	Construction	C.1 Well Drilling	21739.14145	1105.754963
2015	013000	Construction	C.1 Well Drilling	26695.53085	1357.453936
2015	014000	Construction	C.1 Well Drilling	32891.01759	1672.077654
2015	015000	Construction	C.1 Well Drilling	40325.60169	2049.626115
2016	001000	Construction	C.1 Well Drilling	763.3389208	46.54759315
2016	002000	Construction	C.1 Well Drilling	1000.28455	60.61695792
2016	003000	Construction	C.1 Well Drilling	1237.23018	74.68632269
2016	004000	Construction	C.1 Well Drilling	1474.175809	88.75568746
2016	005000	Construction	C.1 Well Drilling	1948.067068	116.894417
2016	006000	Construction	C.1 Well Drilling	5042.783384	260.999804
2016	007000	Construction	C.1 Well Drilling	6040.839654	312.331865
2016	008000	Construction	C.1 Well Drilling	7537.924059	389.3299566
2016	009000	Construction	C.1 Well Drilling	9035.008464	466.3280481
2016	010000	Construction	C.1 Well Drilling	11530.14914	594.6582007
2016	011000	Construction	C.1 Well Drilling	17169.76603	870.1619411
2016	012000	Construction	C.1 Well Drilling	21449.08203	1086.617552
2016	013000	Construction	C.1 Well Drilling	26339.72888	1333.995392
2016	014000	Construction	C.1 Well Drilling	32453.03745	1643.217693
2016	015000	Construction	C.1 Well Drilling	39789.00774	2014.284454
2017	001000	Construction	C.1 Well Drilling	719.1407087	43.99990232

Amount of Drilling Emissions Reduced in Changing 175<hp<250 Engines to Tier 4i in Lbs/Well Drilled

CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB	COLB	SOXLB	COLB	SOXLB	PM10LB	PM25LB
2012	001000	Construction	C.1 Well Drilling	1.425731567	0.069080555	No Reduction	No Reduction	650.4930445	0.766405804	40.20745903	36.99086231
2012	002000	Construction	C.1 Well Drilling	6.611028811	0.320156062	No Reduction	No Reduction	855.7315035	1.008083983	52.13380846	47.96310378
2012	003000	Construction	C.1 Well Drilling	4.348635332	0.210525971	No Reduction	No Reduction	1060.969963	1.249762162	64.06015789	58.93534526
2012	004000	Construction	C.1 Well Drilling	0.813679702	0.039383183	No Reduction	No Reduction	1266.208422	1.491440341	75.98650732	69.90758673
2012	005000	Construction	C.1 Well Drilling	1.403036318	0.067889813	No Reduction	No Reduction	1676.68534	1.974796699	99.83920617	91.85206968
2012	006000	Construction	C.1 Well Drilling	0.29219772	0.013425082	No Reduction	No Reduction	3961.954751	4.661204512	182.7774876	168.1552886
2012	007000	Construction	C.1 Well Drilling	0.186298317	0.008556498	No Reduction	No Reduction	4747.390168	5.585171161	218.447303	200.9715188
2012	008000	Construction	C.1 Well Drilling	0.097367125	0.004470389	No Reduction	No Reduction	5925.543293	6.971121135	271.9520261	250.195864
2012	009000	Construction	C.1 Well Drilling	0.139685225	0.006411801	No Reduction	No Reduction	7103.696418	8.357071108	325.4567491	299.4202092
2012	010000	Construction	C.1 Well Drilling	0.088879896	0.004078684	No Reduction	No Reduction	9067.284959	10.66698773	414.6312876	381.4607846
2012	011000	Construction	C.1 Well Drilling	0.105302304	0.004805169	No Reduction	No Reduction	13484.46933	15.8601023	592.2478825	544.8680519
2012	012000	Construction	C.1 Well Drilling	0.113719462	0.005188538	No Reduction	No Reduction	16846.89225	19.81478506	739.2027504	680.0665304
2012	013000	Construction	C.1 Well Drilling	0.084232761	0.003842785	No Reduction	No Reduction	20689.6613	24.3344225	907.1511709	834.5790772
2012	014000	Construction	C.1 Well Drilling	0.025268867	0.001152693	No Reduction	No Reduction	25493.12261	29.9839693	1117.086697	1027.719761
2012	015000	Construction	C.1 Well Drilling	0.004211351	0.000192096	No Reduction	No Reduction	31257.27618	36.76342545	1369.009327	1259.488581
2015	001000	Construction	C.1 Well Drilling	1.165303804	0.057880472	No Reduction	No Reduction	650.4930445	0.766405804	36.05112075	33.16703109
2015	002000	Construction	C.1 Well Drilling	5.682208952	0.28223449	No Reduction	No Reduction	855.7315035	1.008083983	46.72603737	42.98795438
2015	003000	Construction	C.1 Well Drilling	4.069543936	0.202133644	No Reduction	No Reduction	1060.969963	1.249762162	57.40095398	52.80887767
2015	004000	Construction	C.1 Well Drilling	0.786489873	0.039064837	No Reduction	No Reduction	1266.208422	1.491440341	68.0758706	62.62980095
2015	005000	Construction	C.1 Well Drilling	1.309613871	0.065048331	No Reduction	No Reduction	1676.68534	1.974796699	89.42570384	82.27164753
2015	006000	Construction	C.1 Well Drilling	0.321089902	0.015948489	No Reduction	No Reduction	3961.954751	4.661204512	183.9929422	169.2735068
2015	007000	Construction	C.1 Well Drilling	0.198426344	0.009855808	No Reduction	No Reduction	4747.390168	5.585171161	219.9862565	202.387356
2015	008000	Construction	C.1 Well Drilling	0.090193793	0.004479913	No Reduction	No Reduction	5925.543293	6.971121135	273.9762279	252.0581296
2015	009000	Construction	C.1 Well Drilling	0.133486813	0.006630271	No Reduction	No Reduction	7103.696418	8.357071108	327.9661993	301.7289033
2015	010000	Construction	C.1 Well Drilling	0.119055806	0.005913485	No Reduction	No Reduction	9067.284959	10.66698773	417.9494849	384.5135261
2015	011000	Construction	C.1 Well Drilling	0.111840303	0.005555092	No Reduction	No Reduction	13484.46933	15.8601023	602.454831	554.2584445
2015	012000	Construction	C.1 Well Drilling	0.14791782	0.007347057	No Reduction	No Reduction	16846.89225	19.81478506	752.061946	691.8969903
2015	013000	Construction	C.1 Well Drilling	0.129879062	0.006451074	No Reduction	No Reduction	20689.6613	24.3344225	923.041506	849.1981855
2015	014000	Construction	C.1 Well Drilling	0.036077517	0.001791965	No Reduction	No Reduction	25493.12261	29.9839693	1136.765956	1045.82468
2015	015000	Construction	C.1 Well Drilling	0.007215503	0.000358393	No Reduction	No Reduction	31257.27618	36.76342545	1393.235296	1281.776472
2016	001000	Construction	C.1 Well Drilling	1.107206248	0.055161979	No Reduction	No Reduction	650.4930445	0.766405804	33.77182493	31.07007894
2016	002000	Construction	C.1 Well Drilling	5.405320397	0.269352994	No Reduction	No Reduction	855.7315035	1.008083983	43.76261426	40.26160512
2016	003000	Construction	C.1 Well Drilling	3.872985076	0.19301962	No Reduction	No Reduction	1060.969963	1.249762162	53.7534036	49.45313131
2016	004000	Construction	C.1 Well Drilling	0.74715154	0.037239343	No Reduction	No Reduction	1266.208422	1.491440341	63.74419293	58.64465749
2016	005000	Construction	C.1 Well Drilling	1.244054911	0.062012735	No Reduction	No Reduction	1676.68534	1.974796699	83.72577159	77.02770987
2016	006000	Construction	C.1 Well Drilling	0.315714681	0.015610581	No Reduction	No Reduction	3961.954751	4.661204512	178.7846588	164.4818861
2016	007000	Construction	C.1 Well Drilling	0.195114724	0.009647854	No Reduction	No Reduction	4747.390168	5.585171161	213.7816992	196.6791633
2016	008000	Construction	C.1 Well Drilling	0.088693139	0.004385784	No Reduction	No Reduction	5925.543293	6.971121135	266.2772598	244.975079
2016	009000	Construction	C.1 Well Drilling	0.131270426	0.006491352	No Reduction	No Reduction	7103.696418	8.357071108	318.7728203	293.2709947
2016	010000	Construction	C.1 Well Drilling	0.11708348	0.005789966	No Reduction	No Reduction	9067.284959	10.66698773	406.2654213	373.7641876
2016	011000	Construction	C.1 Well Drilling	0.11023468	0.005453257	No Reduction	No Reduction	13484.46933	15.8601023	587.6133242	540.6042583
2016	012000	Construction	C.1 Well Drilling	0.145797146	0.007212626	No Reduction	No Reduction	16846.89225	19.81478506	733.5667911	674.8814478
2016	013000	Construction	C.1 Well Drilling	0.128018898	0.006333204	No Reduction	No Reduction	20689.6613	24.3344225	900.3707532	828.3410929
2016	014000	Construction	C.1 Well Drilling	0.035561239	0.001759261	No Reduction	No Reduction	25493.12261	29.9839693	1108.875706	1020.165649
2016	015000	Construction	C.1 Well Drilling	0.007112317	0.000351858	No Reduction	No Reduction	31257.27618	36.76342545	1359.081649	1250.355117
2017	001000	Construction	C.1 Well Drilling	1.041523626	0.05206411	No Reduction	No Reduction	650.4930445	0.766405804	31.39998534	28.88798652

		Wells Drilled Each Year	Amount of Drilling Emissions Reduced in Changing 175<hp<250 Engines to Tier 4i in tons/year						
PM10LB	PM25LB		CALYEAR	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB
0.079213642	0.072876481	305	2012	0.21742406	0.01053478	No Reduction	No Reduction	0.01208008	0.01111366
0.367385648	0.337994477	1414	2012	4.67399737	0.22635034	No Reduction	No Reduction	0.25974165	0.2389621
0.24169304	0.22235739	930	2012	2.02211543	0.09789458	No Reduction	No Reduction	0.11238726	0.10339619
0.045227734	0.041609474	174	2012	0.07079013	0.00342634	No Reduction	No Reduction	0.00393481	0.00362002
0.077995998	0.071756249	300	2012	0.21045545	0.01018347	No Reduction	No Reduction	0.0116994	0.01076344
0.015961839	0.014684878	69	2012	0.01008082	0.00046317	No Reduction	No Reduction	0.00055068	0.00050663
0.010174571	0.009360596	44	2012	0.00409856	0.00018824	No Reduction	No Reduction	0.00022384	0.00020593
0.005316423	0.004891105	23	2012	0.00111972	5.1409E-05	No Reduction	No Reduction	6.1139E-05	5.6248E-05
0.007625888	0.00701581	33.00	2012	0.00230481	0.00010579	No Reduction	No Reduction	0.00012583	0.00011576
0.004851431	0.004463312	21	2012	0.00093324	4.2826E-05	No Reduction	No Reduction	5.094E-05	4.6865E-05
0.0057231	0.005265247	25	2012	0.00131628	6.0065E-05	No Reduction	No Reduction	7.1539E-05	6.5816E-05
0.006179965	0.005685562	27	2012	0.00153521	7.0045E-05	No Reduction	No Reduction	8.343E-05	7.6755E-05
0.004577209	0.004211028	20	2012	0.00084233	3.8428E-05	No Reduction	No Reduction	4.5772E-05	4.211E-05
0.001373028	0.001263184	6	2012	7.5807E-05	3.4581E-06	No Reduction	No Reduction	4.1191E-06	3.7896E-06
0.00022882	0.000210514	1	2012	2.1057E-06	9.6048E-08	No Reduction	No Reduction	1.1441E-07	1.0526E-07
0.06433065	0.059184142	323	2015	0.18819656	0.0093477	No Reduction	No Reduction	0.0103894	0.00955824
0.313686601	0.288591401	1575	2015	4.47473955	0.22225966	No Reduction	No Reduction	0.2470282	0.22726573
0.224659369	0.206686427	1128	2015	2.29522278	0.11400338	No Reduction	No Reduction	0.12670788	0.11657114
0.043418212	0.039944715	218	2015	0.0857274	0.00425807	No Reduction	No Reduction	0.00473259	0.00435397
0.072297298	0.06651345	363	2015	0.23769492	0.01180627	No Reduction	No Reduction	0.01312196	0.01207219
0.017725784	0.016307705	89	2015	0.0142885	0.00070971	No Reduction	No Reduction	0.0007888	0.00072569
0.010954136	0.010077795	55	2015	0.00545672	0.00027103	No Reduction	No Reduction	0.00030124	0.00027714
0.004979153	0.004580816	25	2015	0.00112742	5.5999E-05	No Reduction	No Reduction	6.2239E-05	5.726E-05
0.007369146	0.006779608	37.00	2015	0.00246951	0.00012266	No Reduction	No Reduction	0.00013633	0.00012542
0.006572482	0.006046677	33.00	2015	0.00196442	9.7572E-05	No Reduction	No Reduction	0.00010845	9.977E-05
0.006174149	0.005680212	31	2015	0.00173352	8.6104E-05	No Reduction	No Reduction	9.5699E-05	8.8043E-05
0.00816581	0.007512538	41	2015	0.00303232	0.00015061	No Reduction	No Reduction	0.0001674	0.00015401
0.00716998	0.006596375	36	2015	0.00233782	0.00011612	No Reduction	No Reduction	0.00012906	0.00011873
0.001991661	0.001832326	10	2015	0.00018039	8.9598E-06	No Reduction	No Reduction	9.9583E-06	9.1616E-06
0.000398332	0.000366465	2	2015	7.2155E-06	3.5839E-07	No Reduction	No Reduction	3.9833E-07	3.6647E-07
0.060202691	0.055386423	323	2016	0.17881381	0.00890866	No Reduction	No Reduction	0.00972273	0.00894491
0.29386889	0.270359124	1577	2016	4.26209513	0.21238484	No Reduction	No Reduction	0.23171562	0.21317817
0.210544034	0.193700331	1130	2016	2.18823657	0.10905609	No Reduction	No Reduction	0.11895738	0.10944069
0.040614542	0.037365342	218	2016	0.08143952	0.00405909	No Reduction	No Reduction	0.00442699	0.00407282
0.067620918	0.062211185	363	2016	0.22579597	0.01125531	No Reduction	No Reduction	0.0122732	0.01129133
0.017206666	0.015830118	89	2016	0.0140493	0.00069467	No Reduction	No Reduction	0.0007657	0.00070444
0.010634457	0.009783691	55	2016	0.00536565	0.00026532	No Reduction	No Reduction	0.00029245	0.00026905
0.004834358	0.004447605	25	2016	0.00110866	5.4822E-05	No Reduction	No Reduction	6.0429E-05	5.5595E-05
0.007155361	0.006582926	37	2016	0.0024285	0.00012009	No Reduction	No Reduction	0.00013237	0.00012178
0.006382306	0.005871716	33	2016	0.00193188	9.5534E-05	No Reduction	No Reduction	0.00010531	9.6883E-05
0.006015981	0.005534697	31	2016	0.00170864	8.4525E-05	No Reduction	No Reduction	9.3248E-05	8.5788E-05
0.007956967	0.007320402	41	2016	0.00298884	0.00014786	No Reduction	No Reduction	0.00016312	0.00015007
0.006986832	0.006427879	36	2016	0.00230434	0.000114	No Reduction	No Reduction	0.00012576	0.0001157
0.001940839	0.00178557	10	2016	0.00017781	8.7963E-06	No Reduction	No Reduction	9.7042E-06	8.9278E-06
0.000388176	0.000357122	2	2016	7.1123E-06	3.5186E-07	No Reduction	No Reduction	3.8818E-07	3.5712E-07
0.055890108	0.051418851	323	2017	0.16820607	0.00840835	No Reduction	No Reduction	0.00902625	0.00830414

VERA Emissions (tons/year)	Wells Drilled Each Year	VERA Emissions (tons/year-well)	VERA Fee Reduction	Year
0.240038929	305			
5.160089358	1414			
2.23239727	930			
0.078151284	174			
0.232338319	300			
0.01109467	69			
0.004510646	44			
0.00123227	23			
0.002536428	33.00			
0.001027005	21			
0.001447882	25			
0.001688688	27			
0.000926528	20			
8.33838E-05	6			
2.31613E-06	1			
0.207933661	323	0.000643757	4.489564549	2015
4.944027409	1575	0.003139065	21.89183946	2015
2.535934039	1128	0.002248168	15.67872694	2015
0.094718049	218	0.000434486	3.03010858	2015
0.262623149	363	0.00072348	5.045547778	2015
0.015787006	89	0.000177382	1.237062676	2015
0.006028998	55	0.000109618	0.764476934	2015
0.001245661	25	4.98264E-05	0.347489516	2015
0.002728495	37.00	7.37431E-05	0.514284483	2015
0.002170439	33.00	6.57709E-05	0.458686161	2015
0.001915328	31	6.17848E-05	0.430886999	2015
0.003350329	41	8.17153E-05	0.569882806	2015
0.002583002	36	7.17501E-05	0.500384903	2015
0.000199306	10	1.99306E-05	0.138995806	2015
7.97223E-06	2	3.98611E-06	0.027799161	2015
0.197445203	323	0.000611285	4.263104788	2016
4.706195588	1577	0.002984271	20.81230693	2016
2.416250033	1130	0.002138274	14.91232542	2016
0.089925591	218	0.000412503	2.876793919	2016
0.249324474	363	0.000686844	4.790052024	2016
0.015509671	89	0.000174266	1.215330835	2016
0.005923418	55	0.000107699	0.751089459	2016
0.001223916	25	4.89566E-05	0.341423612	2016
0.002680967	37	7.24586E-05	0.505326066	2016
0.00213272	33	6.46279E-05	0.45071481	2016
0.001886411	31	6.0852E-05	0.424381562	2016
0.003299818	41	8.04834E-05	0.561291018	2016
0.002544101	36	7.06695E-05	0.492848861	2016
0.000196307	10	1.96307E-05	0.13690429	2016
7.85235E-06	2	3.92618E-06	0.027381149	2016
0.185640672	323	0.000574739	4.008229243	2017

Amount of Construction - Well Drilling Emissions Reduced in C				
Year	NOX	ROG	CO	SOX
2015	7.31	0.36	0.00	0.00
2016	6.97	0.35	0.00	0.00
2017	6.58	0.33	0.00	0.00
2018	5.67	0.29	0.00	0.00
2019	5.23	0.27	0.00	0.00
2020	4.35	0.24	0.00	0.00
2021	4.19	0.23	0.00	0.00
2022	3.16	0.20	0.00	0.00
2023	2.90	0.19	0.00	0.00
2024	2.58	0.18	0.00	0.00
2025	2.41	0.17	0.00	0.00
2026	2.31	0.17	0.00	0.00
2027	2.20	0.17	0.00	0.00
2028	2.05	0.17	0.00	0.00
2029	1.98	0.16	0.00	0.00
2030	1.98	0.16	0.00	0.00
2031	1.99	0.16	0.00	0.00
2032	1.99	0.16	0.00	0.00
2033	1.99	0.16	0.00	0.00
2034	1.99	0.17	0.00	0.00
2035	2.00	0.17	0.00	0.00

hanging 175 ≤ hp ≤ 250 Engines to Tier 4i		
PM10	PM25	VERA Fee Reduction Per Well
0.40	0.37	$55.13
0.38	0.35	$52.56
0.35	0.33	$49.75
0.29	0.27	$43.21
0.26	0.24	$39.45
0.22	0.21	$33.46
0.21	0.19	$32.19
0.16	0.14	$25.16
0.14	0.13	$23.39
0.12	0.11	$21.26
0.11	0.10	$20.02
0.10	0.09	$18.30
0.09	0.09	$17.60
0.09	0.08	$16.56
0.08	0.08	$16.07
0.08	0.08	$16.07
0.08	0.08	$16.07
0.08	0.08	$16.07
0.08	0.08	$16.07
0.08	0.08	$16.07
0.08	0.08	$16.07
	Average:	**$26.69**

	2000	0.54%	0.44%	No Reduct	No Reduct	0.67%	0.67%	2017	002000	Construction	C.1 Well Drilling	942.654357	57.33159172
	3000	0.31%	0.26%	No Reduct	No Reduct	0.39%	0.39%	2017	003000	Construction	C.1 Well Drilling	1166.168005	70.66328112
	4000	0.05%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2017	004000	Construction	C.1 Well Drilling	1389.681653	83.99497053
	5000	0.06%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2017	005000	Construction	C.1 Well Drilling	1836.70895	110.6583493
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2017	006000	Construction	C.1 Well Drilling	4995.849988	257.5406623
	7000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2017	007000	Construction	C.1 Well Drilling	5985.300033	308.2478279
2017	8000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2017	008000	Construction	C.1 Well Drilling	7469.4751	384.3085764
	9000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2017	009000	Construction	C.1 Well Drilling	8953.650168	460.3693248
	10000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2017	010000	Construction	C.1 Well Drilling	11427.27528	587.1372389
	11000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2017	011000	Construction	C.1 Well Drilling	17043.46992	860.972981
	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2017	012000	Construction	C.1 Well Drilling	21292.18745	1075.215018
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2017	013000	Construction	C.1 Well Drilling	26147.86464	1320.06306
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2017	014000	Construction	C.1 Well Drilling	32217.46112	1626.123112
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2017	015000	Construction	C.1 Well Drilling	39500.9769	1993.395175
	1000	0.15%	0.12%	No Reduct	No Reduct	0.18%	0.18%	2018	001000	Construction	C.1 Well Drilling	618.2650511	38.07086535
	2000	0.54%	0.44%	No Reduct	No Reduct	0.67%	0.67%	2018	002000	Construction	C.1 Well Drilling	810.1939548	49.62555854
	3000	0.31%	0.26%	No Reduct	No Reduct	0.39%	0.39%	2018	003000	Construction	C.1 Well Drilling	1002.122858	61.18025173
	4000	0.05%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2018	004000	Construction	C.1 Well Drilling	1194.051762	72.73494492
	5000	0.06%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2018	005000	Construction	C.1 Well Drilling	1577.909569	95.84433131
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2018	006000	Construction	C.1 Well Drilling	4823.38249	244.8783498
	7000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2018	007000	Construction	C.1 Well Drilling	5779.56332	293.1726627
2018	8000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2018	008000	Construction	C.1 Well Drilling	7213.834565	365.6141319
	9000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2018	009000	Construction	C.1 Well Drilling	8648.10581	438.0556011
	10000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2018	010000	Construction	C.1 Well Drilling	11038.55788	558.7913832
	11000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2018	011000	Construction	C.1 Well Drilling	16557.08617	825.6487898
	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2018	012000	Construction	C.1 Well Drilling	20685.73813	1031.209291
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2018	013000	Construction	C.1 Well Drilling	25404.19751	1266.135578
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2018	014000	Construction	C.1 Well Drilling	31302.27173	1559.793436
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2018	015000	Construction	C.1 Well Drilling	38379.9608	1912.182867
	1000	0.15%	0.12%	No Reduct	No Reduct	0.18%	0.18%	2019	001000	Construction	C.1 Well Drilling	569.7563561	35.5442175
	2000	0.54%	0.44%	No Reduct	No Reduct	0.67%	0.67%	2019	002000	Construction	C.1 Well Drilling	746.8582133	46.37616294
	3000	0.31%	0.26%	No Reduct	No Reduct	0.39%	0.39%	2019	003000	Construction	C.1 Well Drilling	923.9600705	57.20810837
	4000	0.05%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2019	004000	Construction	C.1 Well Drilling	1101.061928	68.04005381
	5000	0.06%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2019	005000	Construction	C.1 Well Drilling	1455.265642	89.70394468
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2019	006000	Construction	C.1 Well Drilling	4096.004555	186.2976253
	7000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2019	007000	Construction	C.1 Well Drilling	4907.51531	222.9474742
2019	8000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2019	008000	Construction	C.1 Well Drilling	6124.781441	277.9222474
	9000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2019	009000	Construction	C.1 Well Drilling	7342.047572	332.8970206
	10000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2019	010000	Construction	C.1 Well Drilling	9370.824458	424.5216427
	11000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2019	011000	Construction	C.1 Well Drilling	14035.91596	622.1002856
	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2019	012000	Construction	C.1 Well Drilling	17535.28226	776.8632618
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2019	013000	Construction	C.1 Well Drilling	21534.55802	953.7352345
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2019	014000	Construction	C.1 Well Drilling	26533.65273	1174.8252
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2019	015000	Construction	C.1 Well Drilling	32532.56637	1440.133159
	1000	0.15%	0.12%	No Reduct	No Reduct	0.18%	0.18%	2020	001000	Construction	C.1 Well Drilling	473.7173815	31.85752448
	2000	0.54%	0.44%	No Reduct	No Reduct	0.67%	0.67%	2020	002000	Construction	C.1 Well Drilling	619.9858554	41.56484144
	3000	0.31%	0.26%	No Reduct	No Reduct	0.39%	0.39%	2020	003000	Construction	C.1 Well Drilling	766.2543294	51.27215841
	4000	0.05%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2020	004000	Construction	C.1 Well Drilling	912.5228033	60.97947537
	5000	0.06%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2020	005000	Construction	C.1 Well Drilling	1205.059751	80.39410929
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2020	006000	Construction	C.1 Well Drilling	4023.834188	181.5986855

855.7315035	1.008083983	40.71607697	37.45879081	2017	002000	Construction	C.1 Well Drilling	5.099113365	0.255015147	No Reduction	No Reduction
1060.969963	1.249762162	50.0321686	46.02959511	2017	003000	Construction	C.1 Well Drilling	3.648251191	0.182508238	No Reduction	No Reduction
1266.208422	1.491440341	59.34826023	54.60039941	2017	004000	Construction	C.1 Well Drilling	0.70649077	0.035350117	No Reduction	No Reduction
1676.68534	1.974796699	77.98044349	71.74200801	2017	005000	Construction	C.1 Well Drilling	1.171170484	0.0586159	No Reduction	No Reduction
3961.954751	4.661204512	174.9119482	160.9189923	2017	006000	Construction	C.1 Well Drilling	0.312304315	0.015380443	No Reduction	No Reduction
4747.390168	5.585171161	209.2039957	192.4676761	2017	007000	Construction	C.1 Well Drilling	0.193029103	0.00950733	No Reduction	No Reduction
5925.543293	6.971121135	260.6420671	239.7907017	2017	008000	Construction	C.1 Well Drilling	0.087755124	0.004322685	No Reduction	No Reduction
7103.696418	8.357071108	312.0801384	287.1137273	2017	009000	Construction	C.1 Well Drilling	0.129892054	0.006398735	No Reduction	No Reduction
9067.284959	10.66698773	397.8102572	365.9854367	2017	010000	Construction	C.1 Well Drilling	0.115863734	0.005708111	No Reduction	No Reduction
13484.46933	15.8601023	577.269724	531.0881461	2017	011000	Construction	C.1 Well Drilling	0.109258697	0.005387528	No Reduction	No Reduction
16846.89225	19.81478506	720.7242274	663.0662892	2017	012000	Construction	C.1 Well Drilling	0.144512271	0.007126169	No Reduction	No Reduction
20689.6613	24.3344225	884.6722312	813.8984527	2017	013000	Construction	C.1 Well Drilling	0.126894601	0.006257602	No Reduction	No Reduction
25493.12261	29.9839693	1089.607236	1002.438657	2017	014000	Construction	C.1 Well Drilling	0.035249826	0.001738332	No Reduction	No Reduction
31257.27618	36.76342545	1335.529242	1228.686903	2017	015000	Construction	C.1 Well Drilling	0.007050176	0.000347684	No Reduction	No Reduction
650.4930445	0.766405804	25.96951865	23.89195716	2018	001000	Construction	C.1 Well Drilling	0.899613385	0.045259051	No Reduction	No Reduction
855.7315035	1.008083983	33.66149016	30.96857094	2018	002000	Construction	C.1 Well Drilling	4.378757719	0.220544948	No Reduction	No Reduction
1060.969963	1.249762162	41.35346166	38.04518473	2018	003000	Construction	C.1 Well Drilling	3.135862448	0.158056499	No Reduction	No Reduction
1266.208422	1.491440341	49.04543317	45.12179851	2018	004000	Construction	C.1 Well Drilling	0.606121155	0.030565099	No Reduction	No Reduction
1676.68534	1.974796699	64.42937617	59.27502608	2018	005000	Construction	C.1 Well Drilling	1.007399579	0.050832042	No Reduction	No Reduction
3961.954751	4.661204512	163.1964128	150.1406998	2018	006000	Construction	C.1 Well Drilling	0.301068569	0.014602208	No Reduction	No Reduction
4747.390168	5.585171161	195.2569746	179.6364166	2018	007000	Construction	C.1 Well Drilling	0.18611313	0.00902874	No Reduction	No Reduction
5925.543293	6.971121135	243.3478172	223.8799918	2018	008000	Construction	C.1 Well Drilling	0.084624029	0.004106214	No Reduction	No Reduction
7103.696418	8.357071108	291.4386598	268.123567	2018	009000	Construction	C.1 Well Drilling	0.125270433	0.00607942	No Reduction	No Reduction
9067.284959	10.66698773	371.5900642	341.862859	2018	010000	Construction	C.1 Well Drilling	0.111753797	0.005424348	No Reduction	No Reduction
13484.46933	15.8601023	544.5728937	501.0070622	2018	011000	Construction	C.1 Well Drilling	0.10598076	0.005158702	No Reduction	No Reduction
16846.89225	19.81478506	679.9927161	625.5932988	2018	012000	Construction	C.1 Well Drilling	0.14018469	0.006824216	No Reduction	No Reduction
20689.6613	24.3344225	834.7582274	767.9775692	2018	013000	Construction	C.1 Well Drilling	0.123099848	0.005992922	No Reduction	No Reduction
25493.12261	29.9839693	1028.215117	945.9579072	2018	014000	Construction	C.1 Well Drilling	0.034196892	0.001664913	No Reduction	No Reduction
31257.27618	36.76342545	1260.363384	1159.534313	2018	015000	Construction	C.1 Well Drilling	0.006839774	0.000333017	No Reduction	No Reduction
650.4930445	0.766405804	23.45834049	21.58167325	2019	001000	Construction	C.1 Well Drilling	0.827782986	0.042191771	No Reduction	No Reduction
855.7315035	1.008083983	30.43243937	27.99784422	2019	002000	Construction	C.1 Well Drilling	4.04057236	0.206314299	No Reduction	No Reduction
1060.969963	1.249762162	37.40653826	34.4140152	2019	003000	Construction	C.1 Well Drilling	2.889471997	0.14770253	No Reduction	No Reduction
1266.208422	1.491440341	44.38063715	40.83018618	2019	004000	Construction	C.1 Well Drilling	0.55807702	0.028549168	No Reduction	No Reduction
1676.68534	1.974796699	58.32883492	53.66252813	2019	005000	Construction	C.1 Well Drilling	0.930249656	0.047634351	No Reduction	No Reduction
3961.954751	4.661204512	124.3601064	114.4112979	2019	006000	Construction	C.1 Well Drilling	0.255282035	0.011092299	No Reduction	No Reduction
4747.390168	5.585171161	148.7249189	136.8269254	2019	007000	Construction	C.1 Well Drilling	0.157793735	0.006855708	No Reduction	No Reduction
5925.543293	6.971121135	185.2721377	170.4503667	2019	008000	Construction	C.1 Well Drilling	0.071740471	0.00311665	No Reduction	No Reduction
7103.696418	8.357071108	221.8193565	204.0738079	2019	009000	Construction	C.1 Well Drilling	0.106191776	0.004613058	No Reduction	No Reduction
9067.284959	10.66698773	282.7313878	260.1128767	2019	010000	Construction	C.1 Well Drilling	0.094727016	0.004114753	No Reduction	No Reduction
13484.46933	15.8601023	411.1971285	378.3013582	2019	011000	Construction	C.1 Well Drilling	0.089707754	0.003881071	No Reduction	No Reduction
16846.89225	19.81478506	513.3623997	472.2934077	2019	012000	Construction	C.1 Well Drilling	0.118655652	0.0051333	No Reduction	No Reduction
20689.6613	24.3344225	630.1227096	579.7128928	2019	013000	Construction	C.1 Well Drilling	0.104191935	0.004507464	No Reduction	No Reduction
25493.12261	29.9839693	776.073097	713.9872492	2019	014000	Construction	C.1 Well Drilling	0.028943692	0.001252114	No Reduction	No Reduction
31257.27618	36.76342545	951.2135618	875.1164769	2019	015000	Construction	C.1 Well Drilling	0.005788975	0.000250429	No Reduction	No Reduction
650.4930445	0.766405804	19.78680255	18.20385834	2020	001000	Construction	C.1 Well Drilling	0.689331247	0.037874958	No Reduction	No Reduction
855.7315035	1.008083983	25.64783746	23.59601046	2020	002000	Construction	C.1 Well Drilling	3.353365663	0.18486515	No Reduction	No Reduction
1060.969963	1.249762162	31.50887236	28.98816257	2020	003000	Construction	C.1 Well Drilling	2.396903744	0.132411076	No Reduction	No Reduction
1266.208422	1.491440341	37.36990727	34.38031469	2020	004000	Construction	C.1 Well Drilling	0.463929272	0.025664815	No Reduction	No Reduction
1676.68534	1.974796699	49.09197709	45.16461892	2020	005000	Construction	C.1 Well Drilling	0.769153308	0.042626535	No Reduction	No Reduction
3961.954751	4.661204512	119.4004227	109.8483889	2020	006000	Construction	C.1 Well Drilling	0.250407301	0.010796278	No Reduction	No Reduction

0.273691046	0.251795525	1581	2017	4.03084911	0.20158947	No Reduction	No Reduction	0.21635277	0.19904436
0.195845948	0.180178105	1131	2017	2.06308605	0.10320841	No Reduction	No Reduction	0.11075088	0.10189072
0.037929811	0.034895391	219	2017	0.07736074	0.00387084	No Reduction	No Reduction	0.00415331	0.00382105
0.062885676	0.057854767	363	2017	0.21256744	0.01063879	No Reduction	No Reduction	0.01141375	0.01050064
0.016808544	0.015463845	89	2017	0.01389754	0.00068443	No Reduction	No Reduction	0.00074798	0.00068814
0.010391037	0.009559745	55	2017	0.0053083	0.00026145	No Reduction	No Reduction	0.00028575	0.00026289
0.004724909	0.004346912	25	2017	0.00109694	5.4034E-05	No Reduction	No Reduction	5.9061E-05	5.4336E-05
0.006994562	0.006434991	37	2017	0.002403	0.00011838	No Reduction	No Reduction	0.0001294	0.00011905
0.006240047	0.005740838	33	2017	0.00191175	9.4184E-05	No Reduction	No Reduction	0.00010296	9.4724E-05
0.005901165	0.005429067	31	2017	0.00169351	8.3507E-05	No Reduction	No Reduction	9.1468E-05	8.4151E-05
0.007805867	0.00718139	41	2017	0.0029625	0.00014609	No Reduction	No Reduction	0.00016002	0.00014722
0.006854652	0.006306274	36	2017	0.0022841	0.00011264	No Reduction	No Reduction	0.00012338	0.00011351
0.001904236	0.001751895	10	2017	0.00017625	8.6917E-06	No Reduction	No Reduction	9.5212E-06	8.7595E-06
0.000380873	0.000350403	2	2017	7.0502E-06	3.4768E-07	No Reduction	No Reduction	3.8087E-07	3.504E-07
0.046440337	0.042725069	325	2018	0.14618718	0.0073546	No Reduction	No Reduction	0.00754655	0.00694282
0.226072496	0.2079865	1582	2018	3.46359736	0.17445105	No Reduction	No Reduction	0.17882334	0.16451732
0.161915922	0.14896251	1133	2018	1.77646608	0.08953901	No Reduction	No Reduction	0.09172537	0.08438726
0.031297985	0.028794118	219	2018	0.06637027	0.00334688	No Reduction	No Reduction	0.00342713	0.00315296
0.052022335	0.047860502	364	2018	0.18334672	0.00925143	No Reduction	No Reduction	0.00946806	0.00871061
0.015659084	0.014406343	89	2018	0.01339755	0.0006498	No Reduction	No Reduction	0.00069683	0.00064108
0.009683683	0.00890898	55	2018	0.00511811	0.00024829	No Reduction	No Reduction	0.0002663	0.000245
0.004404752	0.004052368	25	2018	0.0010578	5.1328E-05	No Reduction	No Reduction	5.5059E-05	5.0655E-05
0.006522088	0.006000316	37	2018	0.0023175	0.00011247	No Reduction	No Reduction	0.00012066	0.00011101
0.005819975	0.005354372	33	2018	0.00184394	8.9502E-05	No Reduction	No Reduction	9.603E-05	8.8347E-05
0.005558532	0.005113845	31	2018	0.0016427	7.996E-05	No Reduction	No Reduction	8.6157E-05	7.9265E-05
0.007353624	0.006765327	41	2018	0.00287379	0.0001399	No Reduction	No Reduction	0.00015075	0.00013869
0.006458161	0.005941502	36	2018	0.0022158	0.00010787	No Reduction	No Reduction	0.00011625	0.00010695
0.001794237	0.001650696	10	2018	0.00017098	8.3246E-06	No Reduction	No Reduction	8.9712E-06	8.2535E-06
0.000358896	0.000330184	2	2018	6.8398E-06	3.3302E-07	No Reduction	No Reduction	3.589E-07	3.3018E-07
0.041886576	0.038535613	325	2019	0.13451474	0.00685616	No Reduction	No Reduction	0.00680657	0.00626204
0.204594506	0.188226768	1586	2019	3.20417388	0.16360724	No Reduction	No Reduction	0.16224344	0.14926383
0.146370804	0.134661014	1134	2019	1.63833062	0.08374733	No Reduction	No Reduction	0.08299225	0.0763528
0.02827857	0.026016259	219	2019	0.06110943	0.00312613	No Reduction	No Reduction	0.0030965	0.00284878
0.047154897	0.043382464	365	2019	0.16977056	0.00869327	No Reduction	No Reduction	0.00860577	0.0079173
0.011914695	0.010961509	89	2019	0.01136005	0.00049361	No Reduction	No Reduction	0.0005302	0.00048779
0.00736485	0.006775655	55	2019	0.00433933	0.00018853	No Reduction	No Reduction	0.00020253	0.00018633
0.003348499	0.003080617	25	2019	0.00089676	3.8958E-05	No Reduction	No Reduction	4.1856E-05	3.8508E-05
0.004956614	0.00456008	37	2019	0.00196455	8.5342E-05	No Reduction	No Reduction	9.1697E-05	8.4361E-05
0.004421577	0.004067847	33	2019	0.001563	6.7893E-05	No Reduction	No Reduction	7.2956E-05	6.7119E-05
0.004190832	0.003855562	31	2019	0.00139047	6.0157E-05	No Reduction	No Reduction	6.4958E-05	5.9761E-05
0.005543286	0.005099818	41	2019	0.00243244	0.00010523	No Reduction	No Reduction	0.00011364	0.00010455
0.004867651	0.004478234	36	2019	0.00187545	8.1134E-05	No Reduction	No Reduction	8.7618E-05	8.0608E-05
0.001352211	0.001244033	10	2019	0.00014472	6.2606E-06	No Reduction	No Reduction	6.7611E-06	6.2202E-06
0.000270456	0.000248819	2	2019	5.789E-06	2.5043E-07	No Reduction	No Reduction	2.7046E-07	2.4882E-07
0.035386248	0.032555317	326	2020	0.11236099	0.00617362	No Reduction	No Reduction	0.00576796	0.00530652
0.172386145	0.158595104	1588	2020	2.66257234	0.14678293	No Reduction	No Reduction	0.1368746	0.12592451
0.123325296	0.113459167	1136	2020	1.36144133	0.07520949	No Reduction	No Reduction	0.07004877	0.06444481
0.023884249	0.021973487	220	2020	0.05103222	0.00282313	No Reduction	No Reduction	0.00262727	0.00241708
0.039627905	0.036457637	365	2020	0.14037048	0.00777934	No Reduction	No Reduction	0.00723209	0.00665352
0.011422332	0.010508536	89	2020	0.01114312	0.00048043	No Reduction	No Reduction	0.00050829	0.00046763

4.44879136	1581	0.00281391	19.6242068	2017
2.277045341	1131	0.002013303	14.04077295	2017
0.085384891	219	0.000389885	2.719060423	2017
0.234619979	363	0.000646336	4.507547474	2017
0.015329952	89	0.000172247	1.201248142	2017
0.005855505	55	0.000106464	0.742478088	2017
0.001210034	25	4.84014E-05	0.337551076	2017
0.002650779	37	7.16427E-05	0.499636021	2017
0.002108896	33	6.39059E-05	0.445680066	2017
0.001868485	31	6.02737E-05	0.420348748	2017
0.003268608	41	7.97222E-05	0.555982298	2017
0.002520123	36	7.00034E-05	0.488203903	2017
0.000194462	10	1.94462E-05	0.135617778	2017
7.77873E-06	2	3.88937E-06	0.027124443	2017
0.161088326	325	0.000495656	3.456707641	2018
3.816871754	1582	0.002412688	16.82608319	2018
1.957730453	1133	0.001727917	12.05049619	2018
0.073144274	219	0.000333992	2.329261042	2018
0.20206622	364	0.000555127	3.871455546	2018
0.014744179	89	0.000165665	1.155347223	2018
0.005632703	55	0.000102413	0.714226705	2018
0.001164187	25	4.65675E-05	0.324761729	2018
0.002550631	37	6.8936E-05	0.480759458	2018
0.002029469	33	6.14991E-05	0.428894447	2018
0.001808819	31	5.8349E-05	0.406925905	2018
0.003164432	41	7.71813E-05	0.538262141	2018
0.002439917	36	6.77755E-05	0.472666094	2018
0.00018828	10	1.8828E-05	0.131306621	2018
7.53169E-06	2	3.76584E-06	0.02626299	2018
0.148177467	325	0.000455931	3.179660467	2019
3.530024564	1586	0.002225741	15.52231482	2019
1.805070203	1134	0.001591773	11.10102257	2019
0.067332071	219	0.000307452	2.144172891	2019
0.1870696	365	0.000512519	3.57431066	2019
0.012383862	89	0.000139145	0.970393843	2019
0.004730393	55	8.60071E-05	0.599813839	2019
0.00097757	25	3.91028E-05	0.272702998	2019
0.002141587	37	5.78807E-05	0.403660167	2019
0.001703845	33	5.16317E-05	0.360079289	2019
0.001515585	31	4.88898E-05	0.340957667	2019
0.002651311	41	6.46661E-05	0.450981514	2019
0.002044207	36	5.67835E-05	0.396008304	2019
0.00015774	10	1.5774E-05	0.110007938	2019
6.30986E-06	2	3.15493E-06	0.022002482	2019
0.12430257	326	0.000381296	2.659159882	2020
2.946229865	1588	0.001855308	12.93892134	2020
1.506699586	1136	0.00132632	9.249756085	2020
0.056482617	220	0.000256739	1.790498956	2020
0.155381914	365	0.000425704	2.968858819	2020
0.012131853	89	0.000136313	0.950646551	2020

	7000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2020	007000	Construction	C.1 Well Drilling	4821.618634	217.3713079
2020	8000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2020	008000	Construction	C.1 Well Drilling	6018.295302	271.0302415
	9000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2020	009000	Construction	C.1 Well Drilling	7214.971971	324.6891751
	10000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2020	010000	Construction	C.1 Well Drilling	9209.433085	414.1207311
	11000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2020	011000	Construction	C.1 Well Drilling	13837.57353	609.3806479
	12000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2020	012000	Construction	C.1 Well Drilling	17288.23892	761.0419164
	13000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2020	013000	Construction	C.1 Well Drilling	21231.85651	934.3690805
	14000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2020	014000	Construction	C.1 Well Drilling	26161.3785	1151.028036
	15000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2020	015000	Construction	C.1 Well Drilling	32076.80488	1411.018782
	1000	0.15%	0.12%	No Reduct No Reduct	0.18%	0.18%	2021	001000	Construction	C.1 Well Drilling	454.0675786	30.83737278
	2000	0.54%	0.44%	No Reduct No Reduct	0.67%	0.67%	2021	002000	Construction	C.1 Well Drilling	594.768133	40.29517785
	3000	0.31%	0.26%	No Reduct No Reduct	0.39%	0.39%	2021	003000	Construction	C.1 Well Drilling	735.4686874	49.75298292
	4000	0.05%	0.04%	No Reduct No Reduct	0.06%	0.06%	2021	004000	Construction	C.1 Well Drilling	876.1692418	59.21078799
	5000	0.06%	0.05%	No Reduct No Reduct	0.08%	0.08%	2021	005000	Construction	C.1 Well Drilling	1157.570351	78.12639812
	6000	0.01%	0.01%	No Reduct No Reduct	0.01%	0.01%	2021	006000	Construction	C.1 Well Drilling	3979.529499	180.8457994
	7000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2021	007000	Construction	C.1 Well Drilling	4769.042215	216.5221677
2021	8000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2021	008000	Construction	C.1 Well Drilling	5953.31129	270.0367203
	9000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2021	009000	Construction	C.1 Well Drilling	7137.580365	323.5512728
	10000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2021	010000	Construction	C.1 Well Drilling	9111.362157	412.7421937
	11000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2021	011000	Construction	C.1 Well Drilling	13724.00099	609.9411943
	12000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2021	012000	Construction	C.1 Well Drilling	17147.00976	761.8105034
	13000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2021	013000	Construction	C.1 Well Drilling	21059.01979	935.3754282
	14000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2021	014000	Construction	C.1 Well Drilling	25949.03232	1152.331584
	15000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2021	015000	Construction	C.1 Well Drilling	31817.04735	1412.678971
	1000	0.15%	0.12%	No Reduct No Reduct	0.18%	0.18%	2022	001000	Construction	C.1 Well Drilling	341.9227276	25.77051109
	2000	0.54%	0.45%	No Reduct No Reduct	0.67%	0.67%	2022	002000	Construction	C.1 Well Drilling	446.6023834	33.65855547
	3000	0.31%	0.26%	No Reduct No Reduct	0.39%	0.39%	2022	003000	Construction	C.1 Well Drilling	551.2820392	41.54659984
	4000	0.05%	0.04%	No Reduct No Reduct	0.06%	0.06%	2022	004000	Construction	C.1 Well Drilling	655.961695	49.43464421
	5000	0.06%	0.05%	No Reduct No Reduct	0.08%	0.08%	2022	005000	Construction	C.1 Well Drilling	865.3210066	65.21073296
	6000	0.01%	0.01%	No Reduct No Reduct	0.01%	0.01%	2022	006000	Construction	C.1 Well Drilling	3920.329107	178.9607315
	7000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2022	007000	Construction	C.1 Well Drilling	4698.818176	214.3316023
2022	8000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2022	008000	Construction	C.1 Well Drilling	5866.55178	267.3879083
	9000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2022	009000	Construction	C.1 Well Drilling	7034.285384	320.4442144
	10000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2022	010000	Construction	C.1 Well Drilling	8980.508058	408.8713912
	11000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2022	011000	Construction	C.1 Well Drilling	13571.14572	607.5116973
	12000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2022	012000	Construction	C.1 Well Drilling	16956.96121	758.8630271
	13000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2022	013000	Construction	C.1 Well Drilling	20826.46463	931.8359755
	14000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2022	014000	Construction	C.1 Well Drilling	25663.3439	1148.052161
	15000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2022	015000	Construction	C.1 Well Drilling	31467.59903	1407.511583
	1000	0.15%	0.12%	No Reduct No Reduct	0.18%	0.18%	2023	001000	Construction	C.1 Well Drilling	313.9175079	24.67658143
	2000	0.54%	0.45%	No Reduct No Reduct	0.67%	0.67%	2023	002000	Construction	C.1 Well Drilling	410.0209101	32.26580395
	3000	0.31%	0.26%	No Reduct No Reduct	0.39%	0.39%	2023	003000	Construction	C.1 Well Drilling	506.1243122	39.85502648
	4000	0.05%	0.04%	No Reduct No Reduct	0.06%	0.06%	2023	004000	Construction	C.1 Well Drilling	602.2277144	47.444249
	5000	0.06%	0.05%	No Reduct No Reduct	0.08%	0.08%	2023	005000	Construction	C.1 Well Drilling	794.4345188	62.62269405
	6000	0.01%	0.01%	No Reduct No Reduct	0.01%	0.01%	2023	006000	Construction	C.1 Well Drilling	3880.922951	178.4587114
	7000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2023	007000	Construction	C.1 Well Drilling	4651.986081	213.7686709
2023	8000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2023	008000	Construction	C.1 Well Drilling	5808.580775	266.7336101
	9000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2023	009000	Construction	C.1 Well Drilling	6965.17547	319.6985494
	10000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2023	010000	Construction	C.1 Well Drilling	8892.833295	407.9734481
	11000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2023	011000	Construction	C.1 Well Drilling	13468.3814	608.4672392

4747.390168	5.585171161	142.8397677	131.4125863	2020	007000	Construction	C.1 Well Drilling	0.15479896	0.006674198	No Reduction	No Reduction
5925.543293	6.971121135	177.9987851	163.7588823	2020	008000	Construction	C.1 Well Drilling	0.070387284	0.003034797	No Reduction	No Reduction
7103.696418	8.357071108	213.1578026	196.1051784	2020	009000	Construction	C.1 Well Drilling	0.104197051	0.00449256	No Reduction	No Reduction
9067.284959	10.66698773	271.756165	250.0156718	2020	010000	Construction	C.1 Well Drilling	0.092955703	0.004007911	No Reduction	No Reduction
13484.46933	15.8601023	397.7571575	365.9365849	2020	011000	Construction	C.1 Well Drilling	0.088307229	0.003796007	No Reduction	No Reduction
16846.89225	19.81478506	496.6455224	456.9138806	2020	012000	Construction	C.1 Well Drilling	0.116808249	0.005021202	No Reduction	No Reduction
20689.6613	24.3344225	609.6607966	560.8879329	2020	013000	Construction	C.1 Well Drilling	0.102573034	0.004409304	No Reduction	No Reduction
25493.12261	29.9839693	750.9298894	690.8554982	2020	014000	Construction	C.1 Well Drilling	0.028494734	0.001224908	No Reduction	No Reduction
31257.27618	36.76342545	920.4528007	846.8165766	2020	015000	Construction	C.1 Well Drilling	0.0056993	0.000244998	No Reduction	No Reduction
650.4930445	0.766405804	18.29023578	16.82701692	2021	001000	Construction	C.1 Well Drilling	0.659746671	0.036607121	No Reduction	No Reduction
855.7315035	1.008083983	23.74861487	21.84872568	2021	002000	Construction	C.1 Well Drilling	3.216188676	0.179174703	No Reduction	No Reduction
1060.969963	1.249762162	29.20699396	26.87043444	2021	003000	Construction	C.1 Well Drilling	2.303219357	0.128633859	No Reduction	No Reduction
1266.208422	1.491440341	34.66537304	31.8921432	2021	004000	Construction	C.1 Well Drilling	0.444778844	0.024883036	No Reduction	No Reduction
1676.68534	1.974796699	45.58213122	41.93556072	2021	005000	Construction	C.1 Well Drilling	0.739755181	0.041475335	No Reduction	No Reduction
3961.954751	4.661204512	115.4316973	106.1971615	2021	006000	Construction	C.1 Well Drilling	0.2472787	0.01073539	No Reduction	No Reduction
4747.390168	5.585171161	138.135017	127.0842157	2021	007000	Construction	C.1 Well Drilling	0.152881318	0.006638154	No Reduction	No Reduction
5925.543293	6.971121135	172.1899967	158.4147969	2021	008000	Construction	C.1 Well Drilling	0.069522819	0.003019136	No Reduction	No Reduction
7103.696418	8.357071108	206.2449763	189.7453782	2021	009000	Construction	C.1 Well Drilling	0.102924759	0.0044701	No Reduction	No Reduction
9067.284959	10.66698773	263.0032757	241.9630136	2021	010000	Construction	C.1 Well Drilling	0.091827873	0.003988577	No Reduction	No Reduction
13484.46933	15.8601023	387.1571718	356.184598	2021	011000	Construction	C.1 Well Drilling	0.087451069	0.003793799	No Reduction	No Reduction
16846.89225	19.81478506	483.4676901	444.7902749	2021	012000	Construction	C.1 Well Drilling	0.115680251	0.005018734	No Reduction	No Reduction
20689.6613	24.3344225	593.5368539	546.0539056	2021	013000	Construction	C.1 Well Drilling	0.101585437	0.004407432	No Reduction	No Reduction
25493.12261	29.9839693	731.1233086	672.6334439	2021	014000	Construction	C.1 Well Drilling	0.028221053	0.001224456	No Reduction	No Reduction
31257.27618	36.76342545	896.2270543	824.5288899	2021	015000	Construction	C.1 Well Drilling	0.005644668	0.000244918	No Reduction	No Reduction
650.4930445	0.766405804	13.75387874	12.65356844	2022	001000	Construction	C.1 Well Drilling	0.496059453	0.030546417	No Reduction	No Reduction
855.7315035	1.008083983	17.82438787	16.39843684	2022	002000	Construction	C.1 Well Drilling	2.418953238	0.149910378	No Reduction	No Reduction
1060.969963	1.249762162	21.89489701	20.14330525	2022	003000	Construction	C.1 Well Drilling	1.72534175	0.107349948	No Reduction	No Reduction
1266.208422	1.491440341	25.96540614	23.88817365	2022	004000	Construction	C.1 Well Drilling	0.332493871	0.020743545	No Reduction	No Reduction
1676.68534	1.974796699	34.10642441	31.37791045	2022	005000	Construction	C.1 Well Drilling	0.552162508	0.034566883	No Reduction	No Reduction
3961.954751	4.661204512	110.3747683	101.5447868	2022	006000	Construction	C.1 Well Drilling	0.243235272	0.010607577	No Reduction	No Reduction
4747.390168	5.585171161	132.1412517	121.5699516	2022	007000	Construction	C.1 Well Drilling	0.150404537	0.006561153	No Reduction	No Reduction
5925.543293	6.971121135	164.7909768	151.6076987	2022	008000	Construction	C.1 Well Drilling	0.068407031	0.002985044	No Reduction	No Reduction
7103.696418	8.357071108	197.4407019	181.6454457	2022	009000	Construction	C.1 Well Drilling	0.101283308	0.004420543	No Reduction	No Reduction
9067.284959	10.66698773	251.8569104	231.7083575	2022	010000	Construction	C.1 Well Drilling	0.090373514	0.003945253	No Reduction	No Reduction
13484.46933	15.8601023	373.7364222	343.8375084	2022	011000	Construction	C.1 Well Drilling	0.086347535	0.003773028	No Reduction	No Reduction
16846.89225	19.81478506	466.7849399	429.4421447	2022	012000	Construction	C.1 Well Drilling	0.114226771	0.004991828	No Reduction	No Reduction
20689.6613	24.3344225	573.126103	527.2760147	2022	013000	Construction	C.1 Well Drilling	0.100313157	0.004384178	No Reduction	No Reduction
25493.12261	29.9839693	706.0525568	649.5683523	2022	014000	Construction	C.1 Well Drilling	0.027868548	0.001218082	No Reduction	No Reduction
31257.27618	36.76342545	865.5643015	796.3191573	2022	015000	Construction	C.1 Well Drilling	0.00557431	0.000243657	No Reduction	No Reduction
650.4930445	0.766405804	12.11604117	11.14675788	2023	001000	Construction	C.1 Well Drilling	0.45614348	0.029295601	No Reduction	No Reduction
855.7315035	1.008083983	15.71365812	14.45656547	2023	002000	Construction	C.1 Well Drilling	2.221664881	0.143762238	No Reduction	No Reduction
1060.969963	1.249762162	19.31127507	17.76637307	2023	003000	Construction	C.1 Well Drilling	1.583030569	0.102915376	No Reduction	No Reduction
1266.208422	1.491440341	22.90889202	21.07618066	2023	004000	Construction	C.1 Well Drilling	0.306186132	0.019968928	No Reduction	No Reduction
1676.68534	1.974796699	30.10412592	27.69579585	2023	005000	Construction	C.1 Well Drilling	0.506171623	0.033145373	No Reduction	No Reduction
3961.954751	4.661204512	106.7825202	98.23991859	2023	006000	Construction	C.1 Well Drilling	0.240430228	0.010562002	No Reduction	No Reduction
4747.390168	5.585171161	127.8743862	117.6444353	2023	007000	Construction	C.1 Well Drilling	0.148682798	0.006534134	No Reduction	No Reduction
5925.543293	6.971121135	159.5121851	146.7512103	2023	008000	Construction	C.1 Well Drilling	0.067629766	0.002973286	No Reduction	No Reduction
7103.696418	8.357071108	191.1499841	175.8579854	2023	009000	Construction	C.1 Well Drilling	0.100138245	0.004403661	No Reduction	No Reduction
9067.284959	10.66698773	243.879649	224.3692771	2023	010000	Construction	C.1 Well Drilling	0.089357381	0.003930702	No Reduction	No Reduction
13484.46933	15.8601023	363.9836776	334.8649834	2023	011000	Construction	C.1 Well Drilling	0.085565533	0.003773311	No Reduction	No Reduction

0.007062791	0.006497761	55	2020	0.00425697	0.00018354	No Reduction	No Reduction	0.00019423	0.00017869
0.003212212	0.002955233	25	2020	0.00087984	3.7935E-05	No Reduction	No Reduction	4.0153E-05	3.694E-05
0.004755914	0.004375436	37	2020	0.00192765	8.3112E-05	No Reduction	No Reduction	8.7984E-05	8.0946E-05
0.004243553	0.003904065	33	2020	0.00153377	6.6131E-05	No Reduction	No Reduction	7.0019E-05	6.4417E-05
0.004047765	0.00372394	31	2020	0.00136876	5.8838E-05	No Reduction	No Reduction	6.274E-05	5.7721E-05
0.005354721	0.004926339	41	2020	0.00239457	0.00010293	No Reduction	No Reduction	0.00010977	0.00010099
0.004702509	0.004326304	36	2020	0.00184631	7.9367E-05	No Reduction	No Reduction	8.4645E-05	7.7873E-05
0.001306437	0.001201921	10	2020	0.00014247	6.1245E-06	No Reduction	No Reduction	6.5322E-06	6.0096E-06
0.000261317	0.000240411	2	2020	5.6993E-06	2.45E-07	No Reduction	No Reduction	2.6132E-07	2.4041E-07
0.032660759	0.03004787	326	2021	0.10753871	0.00596696	No Reduction	No Reduction	0.0053237	0.0048978
0.159582251	0.146815532	1590	2021	2.55687	0.14244389	No Reduction	No Reduction	0.12686789	0.11671835
0.114445739	0.105289982	1139	2021	1.31168342	0.07325698	No Reduction	No Reduction	0.06517685	0.05996264
0.022122465	0.020352647	220	2021	0.04892567	0.00273713	No Reduction	No Reduction	0.00243347	0.00223879
0.03684016	0.033892915	366	2021	0.1353752	0.00758999	No Reduction	No Reduction	0.00674175	0.0062024
0.011026104	0.010144006	89	2021	0.0110039	0.00047772	No Reduction	No Reduction	0.00049066	0.00045141
0.006819917	0.006274317	55	2021	0.00420424	0.00018255	No Reduction	No Reduction	0.00018755	0.00017254
0.003102724	0.002854504	25	2021	0.00086904	3.7739E-05	No Reduction	No Reduction	3.8784E-05	3.5681E-05
0.004594774	0.004227188	37	2021	0.00190411	8.2697E-05	No Reduction	No Reduction	8.5003E-05	7.8203E-05
0.004100714	0.003772653	33	2021	0.00151516	6.5812E-05	No Reduction	No Reduction	6.7662E-05	6.2249E-05
0.003933985	0.003619262	31	2021	0.00135549	5.8804E-05	No Reduction	No Reduction	6.0977E-05	5.6099E-05
0.005204822	0.004788431	41	2021	0.00237145	0.00010288	No Reduction	No Reduction	0.0001067	9.8163E-05
0.004571273	0.004205567	36	2021	0.00182854	7.9334E-05	No Reduction	No Reduction	8.2283E-05	7.57E-05
0.00127007	0.001168463	10	2021	0.00014111	6.1223E-06	No Reduction	No Reduction	6.3504E-06	5.8423E-06
0.000254057	0.000233733	2	2021	5.6447E-06	2.4492E-07	No Reduction	No Reduction	2.5406E-07	2.3373E-07
0.02452343	0.022561534	326	2022	0.08085769	0.00497907	No Reduction	No Reduction	0.00399732	0.00367753
0.119970242	0.110372519	1595	2022	1.92911521	0.11955353	No Reduction	No Reduction	0.09567627	0.08802208
0.085740468	0.078881157	1140	2022	0.9834448	0.06118947	No Reduction	No Reduction	0.04887207	0.04496226
0.016545573	0.015221912	220	2022	0.03657433	0.00228179	No Reduction	No Reduction	0.00182001	0.00167441
0.027524036	0.025322089	366	2022	0.10104574	0.00632574	No Reduction	No Reduction	0.0050369	0.00463394
0.010527272	0.009685081	89	2022	0.01082397	0.00047204	No Reduction	No Reduction	0.00046846	0.00043099
0.006514225	0.005993081	55	2022	0.00413612	0.00018043	No Reduction	No Reduction	0.00017914	0.00016481
0.002964953	0.002727754	25	2022	0.00085509	3.7313E-05	No Reduction	No Reduction	3.7062E-05	3.4097E-05
0.004392042	0.004040675	37	2022	0.00187374	8.178E-05	No Reduction	No Reduction	8.1253E-05	7.4752E-05
0.00392104	0.003607353	33	2022	0.00149116	6.5097E-05	No Reduction	No Reduction	6.4697E-05	5.9521E-05
0.003791926	0.003488568	31	2022	0.00133839	5.8482E-05	No Reduction	No Reduction	5.8775E-05	5.4073E-05
0.005017695	0.004616275	41	2022	0.00234165	0.00010233	No Reduction	No Reduction	0.00010286	9.4634E-05
0.004407463	0.004054862	36	2022	0.00180564	7.8915E-05	No Reduction	No Reduction	7.9334E-05	7.2988E-05
0.001224682	0.001126706	10	2022	0.00013934	6.0904E-06	No Reduction	No Reduction	6.1234E-06	5.6335E-06
0.000244998	0.000225398	2	2022	5.5743E-06	2.4366E-07	No Reduction	No Reduction	2.45E-07	2.254E-07
0.021636994	0.019906016	327	2023	0.07457946	0.00478983	No Reduction	No Reduction	0.00353765	0.00325463
0.105804057	0.09733964	1598	2023	1.77511024	0.11486603	No Reduction	No Reduction	0.08453744	0.07777437
0.07557614	0.069529984	1141	2023	0.90311894	0.05871322	No Reduction	No Reduction	0.04311619	0.03966686
0.014642336	0.013470936	221	2023	0.03383357	0.00220657	No Reduction	No Reduction	0.00161798	0.00148854
0.024257831	0.022317183	366	2023	0.09262941	0.0060656	No Reduction	No Reduction	0.00443918	0.00408404
0.010169421	0.009355858	89	2023	0.01069915	0.00047001	No Reduction	No Reduction	0.00045254	0.00041634
0.006294452	0.00579089	55	2023	0.00408878	0.00017969	No Reduction	No Reduction	0.0001731	0.00015925
0.002865683	0.002636426	25	2023	0.00084537	3.7166E-05	No Reduction	No Reduction	3.5821E-05	3.2955E-05
0.004245747	0.003906084	37	2023	0.00185256	8.1468E-05	No Reduction	No Reduction	7.8546E-05	7.2263E-05
0.003791167	0.00348787	33	2023	0.0014744	6.4857E-05	No Reduction	No Reduction	6.2554E-05	5.755E-05
0.003687452	0.003392452	31	2023	0.00132627	5.8486E-05	No Reduction	No Reduction	5.7156E-05	5.2583E-05

0.004634739	55	8.4268E-05	0.587684855	2020
0.000957929	25	3.83171E-05	0.26722378	2020
0.002098742	37	5.67228E-05	0.395584544	2020
0.001669918	33	5.06036E-05	0.352909392	2020
0.001490341	31	4.80755E-05	0.335278538	2020
0.002607276	41	6.35921E-05	0.44349121	2020
0.002010327	36	5.58424E-05	0.38944506	2020
0.00015513	10	1.5513E-05	0.108187938	2020
6.20561E-06	2	3.10281E-06	0.021638979	2020
0.118829372	326	0.000364507	2.542073739	2021
2.826181776	1590	0.001777473	12.39609541	2021
1.450117255	1139	0.001273149	8.878944457	2021
0.054096278	220	0.000245892	1.714852009	2021
0.149706934	366	0.000409035	2.852612446	2021
0.011972289	89	0.00013452	0.938143155	2021
0.004574333	55	8.31697E-05	0.580025448	2021
0.000945559	25	3.78223E-05	0.263773	2021
0.002071808	37	5.59948E-05	0.390507852	2021
0.001648633	33	4.99586E-05	0.34841115	2021
0.001475272	31	4.75894E-05	0.331888661	2021
0.002581028	41	6.29519E-05	0.439026574	2021
0.001990155	36	5.52821E-05	0.38553716	2021
0.000153578	10	1.53578E-05	0.107105226	2021
6.14364E-06	2	3.07182E-06	0.021422884	2021
0.089834076	326	0.000275565	1.921787868	2022
2.144345002	1595	0.001344417	9.375963664	2022
1.093506334	1140	0.000959216	6.689572958	2022
0.040676129	220	0.000184891	1.289433283	2022
0.112408377	366	0.000307127	2.1419017	2022
0.01176447	89	0.000132185	0.921858614	2022
0.004495698	55	8.174E-05	0.570054466	2022
0.000929463	25	3.71785E-05	0.259282953	2022
0.002036774	37	5.50479E-05	0.383904381	2022
0.001620957	33	4.91199E-05	0.342562205	2022
0.001455644	31	4.69562E-05	0.327472849	2022
0.002546844	41	6.21181E-05	0.43321196	2022
0.001963886	36	5.45524E-05	0.38044843	2022
0.000151557	10	1.51557E-05	0.105695542	2022
6.06297E-06	2	3.03148E-06	0.021141559	2022
0.082906938	327	0.000253538	1.768174276	2023
1.974513709	1598	0.001235616	8.617183108	2023
1.004948349	1141	0.000880761	6.14242751	2023
0.037658112	221	0.000170399	1.188360522	2023
0.103134193	366	0.000281787	1.965185423	2023
0.011621693	89	0.000130581	0.910670675	2023
0.004441563	55	8.07557E-05	0.563190197	2023
0.000918359	25	3.67344E-05	0.256185481	2023
0.002012572	37	5.43938E-05	0.379342547	2023
0.001601808	33	4.85396E-05	0.338515345	2023
0.001441908	31	4.65131E-05	0.324382692	2023

	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2023	012000	Construction	C.1 Well Drilling	16829.07493	760.1068205
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2023	013000	Construction	C.1 Well Drilling	20669.86753	933.4091991
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2023	014000	Construction	C.1 Well Drilling	25470.85828	1150.037172
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2023	015000	Construction	C.1 Well Drilling	31232.04718	1409.99074
	1000	0.15%	0.12%	No Reduct	No Reduct	0.18%	0.18%	2024	001000	Construction	C.1 Well Drilling	279.1916833	23.5733669
	2000	0.54%	0.45%	No Reduct	No Reduct	0.67%	0.67%	2024	002000	Construction	C.1 Well Drilling	364.3215201	30.8390318
	3000	0.31%	0.26%	No Reduct	No Reduct	0.39%	0.39%	2024	003000	Construction	C.1 Well Drilling	449.451357	38.1046967
	4000	0.05%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2024	004000	Construction	C.1 Well Drilling	534.5811938	45.3703616
	5000	0.06%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2024	005000	Construction	C.1 Well Drilling	704.8408675	59.9016914
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2024	006000	Construction	C.1 Well Drilling	3872.359814	180.2189412
	7000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2024	007000	Construction	C.1 Well Drilling	4642.071342	215.9074549
2024	8000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2024	008000	Construction	C.1 Well Drilling	5796.638635	269.4402256
	9000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2024	009000	Construction	C.1 Well Drilling	6951.205927	322.9729963
	10000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2024	010000	Construction	C.1 Well Drilling	8875.484748	412.1942808
	11000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2024	011000	Construction	C.1 Well Drilling	13456.8761	615.976267
	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2024	012000	Construction	C.1 Well Drilling	16815.14459	769.5262407
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2024	013000	Construction	C.1 Well Drilling	20653.16571	945.0119249
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2024	014000	Construction	C.1 Well Drilling	25450.69211	1164.36903
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2024	015000	Construction	C.1 Well Drilling	31207.7238	1427.597556
	1000	0.15%	0.12%	No Reduct	No Reduct	0.18%	0.18%	2025	001000	Construction	C.1 Well Drilling	259.2889181	22.75828312
	2000	0.54%	0.45%	No Reduct	No Reduct	0.67%	0.67%	2025	002000	Construction	C.1 Well Drilling	338.491929	29.80596118
	3000	0.31%	0.26%	No Reduct	No Reduct	0.39%	0.39%	2025	003000	Construction	C.1 Well Drilling	417.6949398	36.85363923
	4000	0.05%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2025	004000	Construction	C.1 Well Drilling	496.8979507	43.90131728
	5000	0.06%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2025	005000	Construction	C.1 Well Drilling	655.3039724	57.99667339
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2025	006000	Construction	C.1 Well Drilling	3854.5428	181.183546
	7000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2025	007000	Construction	C.1 Well Drilling	4621.115383	217.0972054
2025	8000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2025	008000	Construction	C.1 Well Drilling	5770.974257	270.9676945
	9000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2025	009000	Construction	C.1 Well Drilling	6920.833131	324.8381836
	10000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2025	010000	Construction	C.1 Well Drilling	8837.264589	414.6223321
	11000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2025	011000	Construction	C.1 Well Drilling	13418.10925	621.1381394
	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2025	012000	Construction	C.1 Well Drilling	16767.21659	776.018862
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2025	013000	Construction	C.1 Well Drilling	20594.76783	953.0254021
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2025	014000	Construction	C.1 Well Drilling	25379.20689	1174.283577
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2025	015000	Construction	C.1 Well Drilling	31120.53376	1439.793387
	1000	0.15%	0.12%	No Reduct	No Reduct	0.18%	0.18%	2026	001000	Construction	C.1 Well Drilling	248.7099637	22.54780152
	2000	0.54%	0.44%	No Reduct	No Reduct	0.67%	0.67%	2026	002000	Construction	C.1 Well Drilling	324.8772241	29.55905691
	3000	0.31%	0.26%	No Reduct	No Reduct	0.39%	0.39%	2026	003000	Construction	C.1 Well Drilling	401.0444845	36.5703123
	4000	0.05%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2026	004000	Construction	C.1 Well Drilling	477.2117449	43.58156769
	5000	0.06%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2026	005000	Construction	C.1 Well Drilling	629.5462656	57.60407848
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2026	006000	Construction	C.1 Well Drilling	2751.246266	132.6260497
	7000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2026	007000	Construction	C.1 Well Drilling	3297.453882	158.8484526
2026	8000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2026	008000	Construction	C.1 Well Drilling	4116.765307	198.1820569
	9000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2026	009000	Construction	C.1 Well Drilling	4936.076732	237.5156612
	10000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2026	010000	Construction	C.1 Well Drilling	6301.595774	303.0716684
	11000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2026	011000	Construction	C.1 Well Drilling	9527.043073	450.2183429
	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2026	012000	Construction	C.1 Well Drilling	11903.7518	562.3944198
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2026	013000	Construction	C.1 Well Drilling	14619.99034	690.5956505
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2026	014000	Construction	C.1 Well Drilling	18015.28851	850.8471889
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2026	015000	Construction	C.1 Well Drilling	22089.64632	1043.149035
	1000	0.15%	0.12%	No Reduct	No Reduct	0.18%	0.18%	2027	001000	Construction	C.1 Well Drilling	237.4394104	22.28579071

16846.89225	19.81478506	454.6487994	418.2768955	2023	012000	Construction	C.1 Well Drilling	0.113195755	0.004992533	No Reduction	No Reduction
20689.6613	24.3344225	558.2660815	513.604795	2023	013000	Construction	C.1 Well Drilling	0.099409997	0.004385012	No Reduction	No Reduction
25493.12261	29.9839693	687.7876841	632.7646694	2023	014000	Construction	C.1 Well Drilling	0.027618157	0.001218363	No Reduction	No Reduction
31257.27618	36.76342545	843.2136073	775.7565187	2023	015000	Construction	C.1 Well Drilling	0.00552431	0.000243721	No Reduction	No Reduction
650.4930445	0.766405804	10.7065109	9.849990027	2024	001000	Construction	C.1 Well Drilling	0.405078696	0.027944094	No Reduction	No Reduction
855.7315035	1.008083983	13.88905201	12.77792785	2024	002000	Construction	C.1 Well Drilling	1.972332135	0.137285841	No Reduction	No Reduction
1060.969963	1.249762162	17.07159313	15.70586568	2024	003000	Construction	C.1 Well Drilling	1.404902707	0.098334774	No Reduction	No Reduction
1266.208422	1.491440341	20.25413424	18.6338035	2024	004000	Construction	C.1 Well Drilling	0.271387254	0.019067529	No Reduction	No Reduction
1676.68534	1.974796699	26.61921647	24.48967915	2024	005000	Construction	C.1 Well Drilling	0.450867042	0.031830831	No Reduction	No Reduction
3961.954751	4.661204512	105.3744057	96.94445324	2024	006000	Construction	C.1 Well Drilling	0.244924443	0.010889584	No Reduction	No Reduction
4747.390168	5.585171161	126.2175093	116.1201086	2024	007000	Construction	C.1 Well Drilling	0.14814436	0.006589654	No Reduction	No Reduction
5925.543293	6.971121135	157.4821648	144.8835916	2024	008000	Construction	C.1 Well Drilling	0.06738994	0.002998972	No Reduction	No Reduction
7103.696418	8.357071108	188.7468202	173.6470746	2024	009000	Construction	C.1 Well Drilling	0.099788171	0.004442121	No Reduction	No Reduction
9067.284959	10.66698773	240.8545793	221.5862129	2024	010000	Construction	C.1 Well Drilling	0.089049883	0.003965438	No Reduction	No Reduction
13484.46933	15.8601023	360.6164814	331.7671629	2024	011000	Construction	C.1 Well Drilling	0.085364774	0.003814173	No Reduction	No Reduction
16846.89225	19.81478506	450.4808799	414.4424095	2024	012000	Construction	C.1 Well Drilling	0.112933163	0.005046853	No Reduction	No Reduction
20689.6613	24.3344225	553.1830496	508.9284056	2024	013000	Construction	C.1 Well Drilling	0.099181344	0.00443289	No Reduction	No Reduction
25493.12261	29.9839693	681.5607616	627.0359007	2024	014000	Construction	C.1 Well Drilling	0.027555082	0.001231704	No Reduction	No Reduction
31257.27618	36.76342545	835.6140162	768.7648949	2024	015000	Construction	C.1 Well Drilling	0.005511764	0.000246396	No Reduction	No Reduction
650.4930445	0.766405804	9.567177173	8.801802999	2025	001000	Construction	C.1 Well Drilling	0.376789622	0.027020038	No Reduction	No Reduction
855.7315035	1.008083983	12.43192262	11.43736881	2025	002000	Construction	C.1 Well Drilling	1.832054427	0.132654802	No Reduction	No Reduction
1060.969963	1.249762162	15.29666807	14.07293462	2025	003000	Construction	C.1 Well Drilling	1.305974353	0.09513074	No Reduction	No Reduction
1266.208422	1.491440341	18.16141351	16.70850043	2025	004000	Construction	C.1 Well Drilling	0.251880726	0.018422633	No Reduction	No Reduction
1676.68534	1.974796699	23.8909044	21.97963205	2025	005000	Construction	C.1 Well Drilling	0.418554653	0.030772582	No Reduction	No Reduction
3961.954751	4.661204512	103.286051	95.02316693	2025	006000	Construction	C.1 Well Drilling	0.243434012	0.010931546	No Reduction	No Reduction
4747.390168	5.585171161	123.7486731	113.8487792	2025	007000	Construction	C.1 Well Drilling	0.149933065	0.006736379	No Reduction	No Reduction
5925.543293	6.971121135	154.4426061	142.0871976	2025	008000	Construction	C.1 Well Drilling	0.066991537	0.003011476	No Reduction	No Reduction
7103.696418	8.357071108	185.1365392	170.325616	2025	009000	Construction	C.1 Well Drilling	0.099204014	0.004461113	No Reduction	No Reduction
9067.284959	10.66698773	236.2930943	217.3896467	2025	010000	Construction	C.1 Well Drilling	0.088534205	0.003982849	No Reduction	No Reduction
13484.46933	15.8601023	355.2807659	326.8583046	2025	011000	Construction	C.1 Well Drilling	0.084991937	0.003840401	No Reduction	No Reduction
16846.89225	19.81478506	443.8577221	408.3491044	2025	012000	Construction	C.1 Well Drilling	0.112443362	0.005081846	No Reduction	No Reduction
20689.6613	24.3344225	545.0885293	501.481447	2025	013000	Construction	C.1 Well Drilling	0.098753437	0.004463815	No Reduction	No Reduction
25493.12261	29.9839693	671.6270382	617.8968752	2025	014000	Construction	C.1 Well Drilling	0.027436715	0.00124034	No Reduction	No Reduction
31257.27618	36.76342545	823.473249	757.5953891	2025	015000	Construction	C.1 Well Drilling	0.00548817	0.00024813	No Reduction	No Reduction
650.4930445	0.766405804	8.829692143	8.123316771	2026	001000	Construction	C.1 Well Drilling	0.360878565	0.026730285	No Reduction	No Reduction
855.7315035	1.008083983	11.49217578	10.57280172	2026	002000	Construction	C.1 Well Drilling	1.75794157	0.131524159	No Reduction	No Reduction
1060.969963	1.249762162	14.15465942	13.02228666	2026	003000	Construction	C.1 Well Drilling	1.25423669	0.094423628	No Reduction	No Reduction
1266.208422	1.491440341	16.81714305	15.47177161	2026	004000	Construction	C.1 Well Drilling	0.24263446	0.018343855	No Reduction	No Reduction
1676.68534	1.974796699	22.14211033	20.3707415	2026	005000	Construction	C.1 Well Drilling	0.40150407	0.030518769	No Reduction	No Reduction
3961.954751	4.661204512	61.34753113	56.43972864	2026	006000	Construction	C.1 Well Drilling	0.173496523	0.007989959	No Reduction	No Reduction
4747.390168	5.585171161	73.44858911	67.57270198	2026	007000	Construction	C.1 Well Drilling	0.106827303	0.004921621	No Reduction	No Reduction
5925.543293	6.971121135	91.60017608	84.27216199	2026	008000	Construction	C.1 Well Drilling	0.047717737	0.002199273	No Reduction	No Reduction
7103.696418	8.357071108	109.751763	100.971622	2026	009000	Construction	C.1 Well Drilling	0.070648947	0.003257027	No Reduction	No Reduction
9067.284959	10.66698773	140.004408	128.8040554	2026	010000	Construction	C.1 Well Drilling	0.063037169	0.002906962	No Reduction	No Reduction
13484.46933	15.8601023	208.1908107	191.5355459	2026	011000	Construction	C.1 Well Drilling	0.060255606	0.002779486	No Reduction	No Reduction
16846.89225	19.81478506	260.0279531	239.2257169	2026	012000	Construction	C.1 Well Drilling	0.079709418	0.003677419	No Reduction	No Reduction
20689.6613	24.3344225	319.2704015	293.7287694	2026	013000	Construction	C.1 Well Drilling	0.071943995	0.003319538	No Reduction	No Reduction
25493.12261	29.9839693	393.3234621	361.8575851	2026	014000	Construction	C.1 Well Drilling	0.019446803	0.000897372	No Reduction	No Reduction
31257.27618	36.76342545	482.1871347	443.6121639	2026	015000	Construction	C.1 Well Drilling	0.003889755	0.000179506	No Reduction	No Reduction
650.4930445	0.766405804	8.101693118	7.453557668	2027	001000	Construction	C.1 Well Drilling	0.345061615	0.026460825	No Reduction	No Reduction

0.004879929	0.00448953	41	2023	0.00232051	0.00010235	No Reduction	No Reduction	0.00010004	9.2035E-05
0.004286766	0.003943821	36	2023	0.00178938	7.893E-05	No Reduction	No Reduction	7.7162E-05	7.0989E-05
0.001191216	0.001095918	10	2023	0.00013809	6.0918E-06	No Reduction	No Reduction	5.9561E-06	5.4796E-06
0.000238314	0.000219249	2	2023	5.5243E-06	2.4372E-07	No Reduction	No Reduction	2.3831E-07	2.1925E-07
0.019091284	0.017563965	327	2024	0.06623037	0.00456886	No Reduction	No Reduction	0.00312142	0.00287171
0.093437305	0.08596224	1599	2024	1.57687954	0.10976003	No Reduction	No Reduction	0.07470313	0.06872681
0.066769674	0.061428043	1142	2024	0.80219945	0.05614916	No Reduction	No Reduction	0.03812548	0.03507541
0.012926203	0.011892095	221	2024	0.02998829	0.00210696	No Reduction	No Reduction	0.00142835	0.00131408
0.021534706	0.01981191	368	2024	0.08295954	0.00585687	No Reduction	No Reduction	0.00396239	0.00364539
0.01024551	0.00942586	91	2024	0.01114406	0.00049548	No Reduction	No Reduction	0.00046617	0.00042888
0.006203617	0.005707322	55	2024	0.00407397	0.00018122	No Reduction	No Reduction	0.0001706	0.00015695
0.002824989	0.002598987	25	2024	0.00084237	3.7487E-05	No Reduction	No Reduction	3.5312E-05	3.2487E-05
0.004186109	0.003851216	37	2024	0.00184608	8.2179E-05	No Reduction	No Reduction	7.7443E-05	7.1248E-05
0.003738551	0.003439463	33	2024	0.00146932	6.543E-05	No Reduction	No Reduction	6.1686E-05	5.6751E-05
0.003647884	0.00335605	31	2024	0.00132315	5.912E-05	No Reduction	No Reduction	5.6542E-05	5.2019E-05
0.004827973	0.004441731	41	2024	0.00231513	0.00010346	No Reduction	No Reduction	9.8973E-05	9.1055E-05
0.004241391	0.003902076	36	2024	0.00178526	7.9792E-05	No Reduction	No Reduction	7.6345E-05	7.0237E-05
0.001178669	0.001084374	10	2024	0.00013778	6.1585E-06	No Reduction	No Reduction	5.8933E-06	5.4219E-06
0.000235814	0.000216949	2	2024	5.5118E-06	2.464E-07	No Reduction	No Reduction	2.3581E-07	2.1695E-07
0.01708634	0.015719418	328	2025	0.0617935	0.00443129	No Reduction	No Reduction	0.00280216	0.00257798
0.083614352	0.076925131	1601	2025	1.46655957	0.10619017	No Reduction	No Reduction	0.06693329	0.06157857
0.059843079	0.055055581	1144	2025	0.74701733	0.05441478	No Reduction	No Reduction	0.03423024	0.03149179
0.011573345	0.010647467	221	2025	0.02783282	0.0020357	No Reduction	No Reduction	0.00127885	0.00117655
0.019298708	0.017754794	368	2025	0.07701406	0.00566216	No Reduction	No Reduction	0.00355096	0.00326688
0.010027486	0.009225278	91	2025	0.01107625	0.00049739	No Reduction	No Reduction	0.00045625	0.00041975
0.006183626	0.00568893	56	2025	0.00419813	0.00018862	No Reduction	No Reduction	0.00017314	0.00015929
0.002766333	0.002545024	25	2025	0.00083739	3.7643E-05	No Reduction	No Reduction	3.4579E-05	3.1813E-05
0.004099916	0.003771919	37	2025	0.00183527	8.2531E-05	No Reduction	No Reduction	7.5848E-05	6.9781E-05
0.003662278	0.003369293	33	2025	0.00146081	6.5717E-05	No Reduction	No Reduction	6.0428E-05	5.5593E-05
0.003588551	0.003301463	31	2025	0.00131738	5.9526E-05	No Reduction	No Reduction	5.5623E-05	5.1173E-05
0.004749897	0.004369901	41	2025	0.00230509	0.00010418	No Reduction	No Reduction	9.7373E-05	8.9583E-05
0.004173097	0.003839246	36	2025	0.00177756	8.0349E-05	No Reduction	No Reduction	7.5116E-05	6.9106E-05
0.001159758	0.001066976	10	2025	0.00013718	6.2017E-06	No Reduction	No Reduction	5.7988E-06	5.3349E-06
0.000232041	0.000213478	2	2025	5.4882E-06	2.4813E-07	No Reduction	No Reduction	2.3204E-07	2.1348E-07
0.015745763	0.014486088	328	2026	0.05918408	0.00438377	No Reduction	No Reduction	0.00258231	0.00237572
0.077275159	0.071093079	1603	2026	1.40899017	0.10541661	No Reduction	No Reduction	0.06193604	0.0569811
0.055389575	0.050958361	1146	2026	0.71867762	0.05410474	No Reduction	No Reduction	0.03173823	0.02919914
0.010749174	0.00988923	222	2026	0.02693243	0.00203617	No Reduction	No Reduction	0.00119316	0.0010977
0.017859429	0.016430659	368	2026	0.07387675	0.00561545	No Reduction	No Reduction	0.00328613	0.00302324
0.005947034	0.005471266	91	2026	0.00789409	0.00036354	No Reduction	No Reduction	0.00027059	0.00024894
0.003664705	0.003371525	56	2026	0.00299116	0.00013781	No Reduction	No Reduction	0.00010261	9.4403E-05
0.001638274	0.001507211	25	2026	0.00059647	2.7491E-05	No Reduction	No Reduction	2.0478E-05	1.884E-05
0.002426874	0.002232722	37	2026	0.00130701	6.0255E-05	No Reduction	No Reduction	4.4897E-05	4.1305E-05
0.002166681	0.001993345	33	2026	0.00104011	4.7965E-05	No Reduction	No Reduction	3.575E-05	3.289E-05
0.002099722	0.001931743	31	2026	0.00093396	4.3082E-05	No Reduction	No Reduction	3.2546E-05	2.9942E-05
0.002778519	0.002556235	41	2026	0.00163404	7.5387E-05	No Reduction	No Reduction	5.696E-05	5.2403E-05
0.002508432	0.002307755	37	2026	0.00133096	6.1411E-05	No Reduction	No Reduction	4.6406E-05	4.2693E-05
0.000678175	0.000623921	10	2026	9.7234E-05	4.4869E-06	No Reduction	No Reduction	3.3909E-06	3.1196E-06
0.00013567	0.000124816	2	2026	3.8898E-06	1.7951E-07	No Reduction	No Reduction	1.3567E-07	1.2482E-07
0.014470045	0.013312429	329	2027	0.05676264	0.00435281	No Reduction	No Reduction	0.00238032	0.00218989

0.002522898	41	6.15341E-05	0.42913887	2023
0.001945472	36	5.40409E-05	0.376881147	2023
0.000150139	10	1.50139E-05	0.104706717	2023
6.00635E-06	2	3.00317E-06	0.020944125	2023
0.073920651	327	0.000226057	1.576521774	2024
1.761342698	1599	0.001101528	7.682053767	2024
0.896474085	1142	0.000785004	5.474614949	2024
0.033523599	221	0.00015169	1.057889499	2024
0.092778795	368	0.000252116	1.758259002	2024
0.012105709	91	0.00013303	0.927749605	2024
0.004425785	55	8.04688E-05	0.561189518	2024
0.000915174	25	3.6607E-05	0.255296872	2024
0.002005703	37	5.42082E-05	0.378047989	2024
0.001596439	33	4.83769E-05	0.337380751	2024
0.001438816	31	4.64134E-05	0.323687161	2024
0.002517564	41	6.1404E-05	0.42823146	2024
0.001941401	36	5.39278E-05	0.376092566	2024
0.000149827	10	1.49827E-05	0.104489541	2024
5.99397E-06	2	2.99699E-06	0.020900988	2024
0.069026944	328	0.000210448	1.467664354	2025
1.639683026	1601	0.001024162	7.142504325	2025
0.835662354	1144	0.000730474	5.094326275	2025
0.031147376	221	0.000140938	0.982904064	2025
0.086227173	368	0.000234313	1.63409866	2025
0.012029884	91	0.000132197	0.921938545	2025
0.004559886	56	8.14265E-05	0.567868657	2025
0.000909617	25	3.63847E-05	0.253746709	2025
0.001993653	37	5.38825E-05	0.375776705	2025
0.001586959	33	4.80897E-05	0.335377332	2025
0.001432524	31	4.62104E-05	0.322271639	2025
0.00250664	41	6.11376E-05	0.426373291	2025
0.001933026	36	5.36952E-05	0.374470145	2025
0.000149184	10	1.49184E-05	0.104040967	2025
5.96834E-06	2	2.98417E-06	0.020811607	2025
0.066150157	328	0.000201677	1.406497537	2026
1.576342821	1603	0.00098337	6.858025473	2026
0.804520589	1146	0.000702025	4.895921977	2026
0.030161751	222	0.000135864	0.947513754	2026
0.082778337	368	0.000224941	1.568739466	2026
0.008528225	91	9.37168E-05	0.653580673	2026
0.003231582	56	5.77068E-05	0.402447327	2026
0.000644441	25	2.57776E-05	0.179773276	2026
0.001412158	37	3.81664E-05	0.266172642	2026
0.001123828	33	3.40554E-05	0.237502402	2026
0.00100959	31	3.25674E-05	0.227125097	2026
0.00176639	41	4.30827E-05	0.300458596	2026
0.001438781	37	3.8886E-05	0.271190842	2026
0.000105112	10	1.05112E-05	0.073304934	2026
4.20493E-06	2	2.10247E-06	0.014662593	2026
0.063495764	329	0.000192996	1.345955797	2027

	2000	0.54%	0.44%	No Reduct	No Reduct	0.67%	0.67%	2027	002000	Construction	C.1 Well Drilling	310.3226543	29.23918253
	3000	0.31%	0.26%	No Reduct	No Reduct	0.39%	0.39%	2027	003000	Construction	C.1 Well Drilling	383.2058981	36.19257436
	4000	0.05%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2027	004000	Construction	C.1 Well Drilling	456.089142	43.14596618
	5000	0.06%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2027	005000	Construction	C.1 Well Drilling	601.8556298	57.05274983
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2027	006000	Construction	C.1 Well Drilling	2732.765427	134.013557
	7000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2027	007000	Construction	C.1 Well Drilling	3275.560577	160.5311453
2027	8000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2027	008000	Construction	C.1 Well Drilling	4089.753302	200.3075278
	9000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2027	009000	Construction	C.1 Well Drilling	4903.946026	240.0839103
	10000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2027	010000	Construction	C.1 Well Drilling	6260.9339	306.3778812
	11000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2027	011000	Construction	C.1 Well Drilling	9482.797117	456.3735298
	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2027	012000	Construction	C.1 Well Drilling	11848.79898	570.1105084
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2027	013000	Construction	C.1 Well Drilling	14552.8011	700.0956269
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2027	014000	Construction	C.1 Well Drilling	17932.80376	862.5770249
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2027	015000	Construction	C.1 Well Drilling	21988.80695	1057.554703
	1000	0.15%	0.12%	No Reduct	No Reduct	0.18%	0.18%	2028	001000	Construction	C.1 Well Drilling	220.3047946	21.91287962
	2000	0.54%	0.45%	No Reduct	No Reduct	0.67%	0.67%	2028	002000	Construction	C.1 Well Drilling	287.738463	28.7537402
	3000	0.31%	0.26%	No Reduct	No Reduct	0.39%	0.39%	2028	003000	Construction	C.1 Well Drilling	355.1721314	35.59460077
	4000	0.05%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2028	004000	Construction	C.1 Well Drilling	422.6057999	42.43546135
	5000	0.06%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2028	005000	Construction	C.1 Well Drilling	557.4731368	56.11718251
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2028	006000	Construction	C.1 Well Drilling	2729.804588	136.2304136
	7000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2028	007000	Construction	C.1 Well Drilling	3272.164748	163.1984367
2028	8000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2028	008000	Construction	C.1 Well Drilling	4085.704988	203.6504715
	9000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2028	009000	Construction	C.1 Well Drilling	4899.245228	244.1025062
	10000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2028	010000	Construction	C.1 Well Drilling	6255.145627	311.522564
	11000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2028	011000	Construction	C.1 Well Drilling	9482.668135	464.5924702
	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2028	012000	Construction	C.1 Well Drilling	11848.83422	580.3930133
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2028	013000	Construction	C.1 Well Drilling	14553.02403	712.7364911
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2028	014000	Construction	C.1 Well Drilling	17933.2613	878.1658384
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2028	015000	Construction	C.1 Well Drilling	21989.54602	1076.681055
	1000	0.15%	0.12%	No Reduct	No Reduct	0.18%	0.18%	2029	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	0.54%	0.44%	No Reduct	No Reduct	0.67%	0.67%	2029	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	0.31%	0.26%	No Reduct	No Reduct	0.39%	0.39%	2029	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.05%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2029	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	0.06%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2029	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2029	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2029	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2029	8000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2029	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2029	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2029	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2029	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2029	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2029	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2029	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2029	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	0.15%	0.12%	No Reduct	No Reduct	0.18%	0.18%	2030	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	0.54%	0.45%	No Reduct	No Reduct	0.67%	0.67%	2030	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	0.31%	0.26%	No Reduct	No Reduct	0.39%	0.39%	2030	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.05%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2030	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	0.06%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2030	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2030	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451

855.7315035	1.008083983	10.56198754	9.71702854	2027	002000	Construction	C.1 Well Drilling	1.677735066	0.129988495	No Reduction	No Reduction
1060.969963	1.249762162	13.02228197	11.98049941	2027	003000	Construction	C.1 Well Drilling	1.198754629	0.09347224	No Reduction	No Reduction
1266.208422	1.491440341	15.48257639	14.24397028	2027	004000	Construction	C.1 Well Drilling	0.231550103	0.018133509	No Reduction	No Reduction
1676.68534	1.974796699	20.40316524	18.77091203	2027	005000	Construction	C.1 Well Drilling	0.384314759	0.030263753	No Reduction	No Reduction
3961.954751	4.661204512	59.61227168	54.84328995	2027	006000	Construction	C.1 Well Drilling	0.172074911	0.008061547	No Reduction	No Reduction
4747.390168	5.585171161	71.39056405	65.67931893	2027	007000	Construction	C.1 Well Drilling	0.10596027	0.004966362	No Reduction	No Reduction
5925.543293	6.971121135	89.05800261	81.9333624	2027	008000	Construction	C.1 Well Drilling	0.047334166	0.002219556	No Reduction	No Reduction
7103.696418	8.357071108	106.7254412	98.18740587	2027	009000	Construction	C.1 Well Drilling	0.071978905	0.003376198	No Reduction	No Reduction
9067.284959	10.66698773	136.1711721	125.2774783	2027	010000	Construction	C.1 Well Drilling	0.062537306	0.002934306	No Reduction	No Reduction
13484.46933	15.8601023	203.5993388	187.3113917	2027	011000	Construction	C.1 Well Drilling	0.059886603	0.002813297	No Reduction	No Reduction
16846.89225	19.81478506	254.3189711	233.9734534	2027	012000	Construction	C.1 Well Drilling	0.079223494	0.003722332	No Reduction	No Reduction
20689.6613	24.3344225	312.2842651	287.3015239	2027	013000	Construction	C.1 Well Drilling	0.0715069	0.0033602	No Reduction	No Reduction
25493.12261	29.9839693	384.7408826	353.961612	2027	014000	Construction	C.1 Well Drilling	0.019328986	0.00090839	No Reduction	No Reduction
31257.27618	36.76342545	471.6888236	433.9537177	2027	015000	Construction	C.1 Well Drilling	0.003866242	0.000181714	No Reduction	No Reduction
650.4930445	0.766405804	7.431979033	6.83742071	2028	001000	Construction	C.1 Well Drilling	0.319685283	0.025979431	No Reduction	No Reduction
855.7315035	1.008083983	9.688992596	8.913873189	2028	002000	Construction	C.1 Well Drilling	1.557199834	0.127958919	No Reduction	No Reduction
1060.969963	1.249762162	11.94600616	10.99032567	2028	003000	Construction	C.1 Well Drilling	1.111342171	0.091951348	No Reduction	No Reduction
1266.208422	1.491440341	14.20301972	13.06677815	2028	004000	Construction	C.1 Well Drilling	0.214232594	0.017808422	No Reduction	No Reduction
1676.68534	1.974796699	18.71704685	17.2196831	2028	005000	Construction	C.1 Well Drilling	0.355445916	0.029723293	No Reduction	No Reduction
3961.954751	4.661204512	58.97986828	54.26147881	2028	006000	Construction	C.1 Well Drilling	0.171633321	0.008182736	No Reduction	No Reduction
4747.390168	5.585171161	70.64365426	64.99216192	2028	007000	Construction	C.1 Well Drilling	0.105693294	0.005041386	No Reduction	No Reduction
5925.543293	6.971121135	88.13933324	81.08818658	2028	008000	Construction	C.1 Well Drilling	0.047217118	0.002253248	No Reduction	No Reduction
7103.696418	8.357071108	105.6350122	97.18421124	2028	009000	Construction	C.1 Well Drilling	0.071803164	0.003427614	No Reduction	No Reduction
9067.284959	10.66698773	134.7944772	124.010919	2028	010000	Construction	C.1 Well Drilling	0.062386744	0.00297915	No Reduction	No Reduction
13484.46933	15.8601023	202.0884447	185.9213691	2028	011000	Construction	C.1 Well Drilling	0.059796893	0.002859711	No Reduction	No Reduction
16846.89225	19.81478506	252.4453213	232.2496956	2028	012000	Construction	C.1 Well Drilling	0.079106129	0.003783843	No Reduction	No Reduction
20689.6613	24.3344225	309.9960374	285.1963544	2028	013000	Construction	C.1 Well Drilling	0.071401848	0.003415793	No Reduction	No Reduction
25493.12261	29.9839693	381.9344325	351.3796779	2028	014000	Construction	C.1 Well Drilling	0.019300787	0.000923434	No Reduction	No Reduction
31257.27618	36.76342545	468.2605067	430.7996662	2028	015000	Construction	C.1 Well Drilling	0.003860632	0.000184726	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2029	001000	Construction	C.1 Well Drilling	0.308802256	0.025312975	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2029	002000	Construction	C.1 Well Drilling	1.501322996	0.124440041	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2029	003000	Construction	C.1 Well Drilling	1.0719178	0.089461116	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2029	004000	Construction	C.1 Well Drilling	0.206264055	0.017295292	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2029	005000	Construction	C.1 Well Drilling	0.343131093	0.028943465	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2029	006000	Construction	C.1 Well Drilling	0.17133114	0.008283509	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2029	007000	Construction	C.1 Well Drilling	0.105510687	0.005103769	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2029	008000	Construction	C.1 Well Drilling	0.047137098	0.002281263	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2029	009000	Construction	C.1 Well Drilling	0.07168306	0.003470366	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2029	010000	Construction	C.1 Well Drilling	0.062283887	0.003016436	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2029	011000	Construction	C.1 Well Drilling	0.059750695	0.002900405	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2029	012000	Construction	C.1 Well Drilling	0.079045942	0.003837769	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2029	013000	Construction	C.1 Well Drilling	0.071348146	0.003464529	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2029	014000	Construction	C.1 Well Drilling	0.01928641	0.000936622	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2029	015000	Construction	C.1 Well Drilling	0.003857779	0.000187366	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2030	001000	Construction	C.1 Well Drilling	0.308345223	0.025275512	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2030	002000	Construction	C.1 Well Drilling	1.501894365	0.1244874	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2030	003000	Construction	C.1 Well Drilling	1.071260448	0.089406254	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2030	004000	Construction	C.1 Well Drilling	0.206886523	0.017347486	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2030	005000	Construction	C.1 Well Drilling	0.343549261	0.028978738	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2030	006000	Construction	C.1 Well Drilling	0.171077567	0.008271249	No Reduction	No Reduction

0.070959088	0.065282299	1604	2027	1.34554352	0.10425077	No Reduction	No Reduction	0.05690919	0.0523564	
0.050971435	0.046893676	1148	2027	0.68808516	0.05365307	No Reduction	No Reduction	0.0292576	0.02691697	
0.009881434	0.009090911	222	2027	0.02570206	0.00201282	No Reduction	No Reduction	0.00109684	0.00100909	
0.016477015	0.015158839	369	2027	0.07090607	0.00558366	No Reduction	No Reduction	0.00304001	0.00279681	
0.005770227	0.005308604	91	2027	0.00782941	0.0003668	No Reduction	No Reduction	0.00026255	0.00024154	
0.003556725	0.003272184	56	2027	0.00296689	0.00013906	No Reduction	No Reduction	9.9588E-05	9.1621E-05	
0.001590439	0.001463203	25	2027	0.00059168	2.7744E-05	No Reduction	No Reduction	1.988E-05	1.829E-05	
0.002420134	0.002226521	38	2027	0.0013676	6.4148E-05	No Reduction	No Reduction	4.5983E-05	4.2304E-05	
0.002104226	0.001935886	33	2027	0.00103187	4.8416E-05	No Reduction	No Reduction	3.472E-05	3.1942E-05	
0.002050362	0.001886331	31	2027	0.00092824	4.3606E-05	No Reduction	No Reduction	3.1781E-05	2.9238E-05	
0.002713476	0.002496396	41	2027	0.00162408	7.6308E-05	No Reduction	No Reduction	5.5626E-05	5.1176E-05	
0.002449896	0.002253902	37	2027	0.00132288	6.2164E-05	No Reduction	No Reduction	4.5323E-05	4.1697E-05	
0.000662391	0.000609399	10	2027	9.6645E-05	4.542E-06	No Reduction	No Reduction	3.312E-06	3.047E-06	
0.000132519	0.000121917	2	2027	3.8662E-06	1.8171E-07	No Reduction	No Reduction	1.3252E-07	1.2192E-07	
0.013254197	0.01219385	329	2028	0.05258823	0.00427362	No Reduction	No Reduction	0.00218032	0.00200589	
0.065159468	0.059946654	1608	2028	1.25198867	0.10287897	No Reduction	No Reduction	0.05238821	0.04819711	
0.046770639	0.043028947	1150	2028	0.63902175	0.05287203	No Reduction	No Reduction	0.02689312	0.02474164	
0.009051328	0.008327213	222	2028	0.02377982	0.00197673	No Reduction	No Reduction	0.0010047	0.00092432	
0.015092917	0.01388547	369	2028	0.06557977	0.00548395	No Reduction	No Reduction	0.00278464	0.00256187	
0.005700538	0.00524449	91	2028	0.00780932	0.00037231	No Reduction	No Reduction	0.00025937	0.00023862	
0.003514289	0.003233143	56	2028	0.00295941	0.00014116	No Reduction	No Reduction	9.84E-05	9.0528E-05	
0.001571697	0.00144596	25	2028	0.00059021	2.8166E-05	No Reduction	No Reduction	1.9646E-05	1.8074E-05	
0.002391852	0.002200501	38	2028	0.00136426	6.5125E-05	No Reduction	No Reduction	4.5445E-05	4.181E-05	
0.00207986	0.001913469	33	2028	0.00102938	4.9156E-05	No Reduction	No Reduction	3.4318E-05	3.1572E-05	
0.002032125	0.001869554	31	2028	0.00092685	4.4326E-05	No Reduction	No Reduction	3.1498E-05	2.8978E-05	
0.002689487	0.002474325	41	2028	0.00162168	7.7569E-05	No Reduction	No Reduction	5.5134E-05	5.0724E-05	
0.002428334	0.002234065	37	2028	0.00132093	6.3192E-05	No Reduction	No Reduction	4.4924E-05	4.133E-05	
0.000656583	0.000604056	10	2028	9.6504E-05	4.6172E-06	No Reduction	No Reduction	3.2829E-06	3.0203E-06	
0.000131361	0.000120852	2	2028	3.8606E-06	1.8473E-07	No Reduction	No Reduction	1.3136E-07	1.2085E-07	
0.012766707	0.011745359	330	2029	0.05095237	0.00417664	No Reduction	No Reduction	0.00210651	0.00193798	
0.062702104	0.057685882	1610	2029	1.20856501	0.10017423	No Reduction	No Reduction	0.05047519	0.04643713	
0.045052081	0.041447876	1152	2029	0.61742465	0.0515296	No Reduction	No Reduction	0.02595	0.02387398	
0.008706642	0.008010103	222	2029	0.02289531	0.00191978	No Reduction	No Reduction	0.00096644	0.00088912	
0.014563985	0.013398853	370	2029	0.06347925	0.00535454	No Reduction	No Reduction	0.00269434	0.00247879	
0.005656915	0.005204357	91	2029	0.00779557	0.0003769	No Reduction	No Reduction	0.00025739	0.0002368	
0.003487835	0.003208805	56	2029	0.0029543	0.00014291	No Reduction	No Reduction	9.7659E-05	8.9847E-05	
0.001560063	0.001435256	25	2029	0.00058921	2.8516E-05	No Reduction	No Reduction	1.9501E-05	1.7941E-05	
0.002374348	0.002184398	38	2029	0.00136198	6.5937E-05	No Reduction	No Reduction	4.5113E-05	4.1504E-05	
0.002064829	0.001899641	33	2029	0.00102768	4.9771E-05	No Reduction	No Reduction	3.407E-05	3.1344E-05	
0.002022126	0.001860354	31	2029	0.00092614	4.4956E-05	No Reduction	No Reduction	3.1343E-05	2.8835E-05	
0.002676375	0.002462263	41	2029	0.00162044	7.8674E-05	No Reduction	No Reduction	5.4866E-05	5.0476E-05	
0.002416578	0.00222325	37	2029	0.00131994	6.4094E-05	No Reduction	No Reduction	4.4707E-05	4.113E-05	
0.000653423	0.000601148	10	2029	9.6432E-05	4.6831E-06	No Reduction	No Reduction	3.2671E-06	3.0057E-06	
0.000130731	0.000120273	2	2029	3.8578E-06	1.8737E-07	No Reduction	No Reduction	1.3073E-07	1.2027E-07	
0.012747812	0.011727976	330	2030	0.05087696	0.00417046	No Reduction	No Reduction	0.00210339	0.00193512	
0.062725967	0.057707835	1613	2030	1.21127781	0.10039909	No Reduction	No Reduction	0.05058849	0.04654137	
0.045024452	0.041422458	1153	2030	0.61758165	0.05154271	No Reduction	No Reduction	0.0259566	0.02388005	
0.008732917	0.008034276	223	2030	0.02306785	0.00193424	No Reduction	No Reduction	0.00097372	0.00089582	
0.014581734	0.013415182	371	2030	0.06372839	0.00537556	No Reduction	No Reduction	0.00270491	0.00248852	
0.005648542	0.005196654	91	2030	0.00778403	0.00037634	No Reduction	No Reduction	0.00025701	0.00023645	

1.506703484	1604	0.000939341	6.550966396	2027
0.770995826	1148	0.000671599	4.683732484	2027
0.02881172	222	0.000129783	0.905103318	2027
0.079529745	369	0.000215528	1.503090624	2027
0.008458754	91	9.29533E-05	0.648256609	2027
0.003205534	56	5.72417E-05	0.399203469	2027
0.000639302	25	2.55721E-05	0.178339688	2027
0.00147773	38	3.88876E-05	0.271202252	2027
0.001115001	33	3.37879E-05	0.235636944	2027
0.001003629	31	3.23751E-05	0.225784164	2027
0.001756016	41	4.28297E-05	0.298693986	2027
0.001430364	37	3.86585E-05	0.269604362	2027
0.000104499	10	1.04499E-05	0.072877489	2027
4.18048E-06	2	2.09024E-06	0.014577316	2027
0.059042161	329	0.000179459	1.251550241	2028
1.407255849	1608	0.000875159	6.103359635	2028
0.718786891	1150	0.000625032	4.358973718	2028
0.02676125	222	0.000120546	0.840689004	2028
0.073848362	369	0.000200131	1.39571403	2028
0.008441005	91	9.27583E-05	0.64689637	2028
0.003198971	56	5.71245E-05	0.398386154	2028
0.000638026	25	2.5521E-05	0.177983671	2028
0.00147483	38	3.88113E-05	0.27067011	2028
0.001112855	33	3.37229E-05	0.235183343	2028
0.001002675	31	3.23444E-05	0.225569601	2028
0.001754379	41	4.27897E-05	0.298415571	2028
0.001429051	37	3.8623E-05	0.269356715	2028
0.000104404	10	1.04404E-05	0.072811363	2028
4.17672E-06	2	2.08836E-06	0.014564219	2028
0.05723552	330	0.000173441	1.209577321	2029
1.35921444	1610	0.000844233	5.887677951	2029
0.694904254	1152	0.000603215	4.206824887	2029
0.025781525	222	0.000116133	0.809911507	2029
0.071528131	370	0.000193319	1.348208602	2029
0.008429856	91	9.26358E-05	0.646041944	2029
0.003194864	56	5.70511E-05	0.39787469	2029
0.00063723	25	2.54892E-05	0.177761765	2029
0.001473028	38	3.87639E-05	0.270339348	2029
0.001111525	33	3.36826E-05	0.234902289	2029
0.001002435	31	3.23366E-05	0.225515539	2029
0.001753982	41	4.278E-05	0.29834802	2029
0.001428741	37	3.86146E-05	0.26929841	2029
0.000104382	10	1.04382E-05	0.072796198	2029
4.17588E-06	2	2.08794E-06	0.01456128	2029
0.05715081	330	0.000173184	1.207787122	2030
1.362265386	1613	0.000844554	5.889918663	2030
0.695080951	1153	0.000602846	4.204245056	2030
0.025975812	223	0.000116483	0.812355673	2030
0.071808856	371	0.000193555	1.349851641	2030
0.00841738	91	9.24987E-05	0.645085789	2030

	7000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2030	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2030	8000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2030	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2030	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2030	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2030	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2030	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2030	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2030	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2030	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	0.14%	0.12%	No Reduct	No Reduct	0.18%	0.18%	2031	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	0.54%	0.45%	No Reduct	No Reduct	0.67%	0.67%	2031	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	0.31%	0.26%	No Reduct	No Reduct	0.39%	0.39%	2031	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.05%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2031	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	0.06%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2031	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2031	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2031	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2031	8000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2031	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2031	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2031	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2031	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2031	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2031	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2031	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2031	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	0.15%	0.12%	No Reduct	No Reduct	0.18%	0.18%	2032	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	0.54%	0.44%	No Reduct	No Reduct	0.67%	0.67%	2032	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	0.31%	0.26%	No Reduct	No Reduct	0.39%	0.39%	2032	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.05%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2032	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	0.06%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2032	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2032	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2032	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2032	8000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2032	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2032	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2032	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2032	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2032	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2032	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2032	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2032	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	0.15%	0.12%	No Reduct	No Reduct	0.18%	0.18%	2033	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	0.54%	0.44%	No Reduct	No Reduct	0.67%	0.67%	2033	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	0.31%	0.26%	No Reduct	No Reduct	0.39%	0.39%	2033	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.05%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2033	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	0.06%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2033	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2033	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2033	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2033	8000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2033	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2033	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2033	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2033	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126

4747.390168	5.585171161	70.21595899	64.59868227	2030	007000	Construction	C.1 Well Drilling	0.105354529	0.005096215	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2030	008000	Construction	C.1 Well Drilling	0.047067334	0.002277887	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2030	009000	Construction	C.1 Well Drilling	0.071576967	0.00346523	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2030	010000	Construction	C.1 Well Drilling	0.062191706	0.003011972	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2030	011000	Construction	C.1 Well Drilling	0.059662263	0.002896112	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2030	012000	Construction	C.1 Well Drilling	0.078928952	0.003832089	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2030	013000	Construction	C.1 Well Drilling	0.07124255	0.003459402	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2030	014000	Construction	C.1 Well Drilling	0.019257866	0.000935236	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2030	015000	Construction	C.1 Well Drilling	0.003852069	0.000187089	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2031	001000	Construction	C.1 Well Drilling	0.30788954	0.025238159	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2031	002000	Construction	C.1 Well Drilling	1.502464044	0.124534619	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2031	003000	Construction	C.1 Well Drilling	1.071532772	0.089428982	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2031	004000	Construction	C.1 Well Drilling	0.206580779	0.01732185	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2031	005000	Construction	C.1 Well Drilling	0.343041553	0.028935913	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2031	006000	Construction	C.1 Well Drilling	0.170824743	0.008259026	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2031	007000	Construction	C.1 Well Drilling	0.105198833	0.005088684	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2031	008000	Construction	C.1 Well Drilling	0.046997776	0.002274521	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2031	009000	Construction	C.1 Well Drilling	0.071471189	0.003460109	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2031	010000	Construction	C.1 Well Drilling	0.062099797	0.003007521	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2031	011000	Construction	C.1 Well Drilling	0.061495837	0.002985117	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2031	012000	Construction	C.1 Well Drilling	0.078812309	0.003826426	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2031	013000	Construction	C.1 Well Drilling	0.071137265	0.003454289	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2031	014000	Construction	C.1 Well Drilling	0.019229406	0.000933854	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2031	015000	Construction	C.1 Well Drilling	0.003846376	0.000186812	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2032	001000	Construction	C.1 Well Drilling	0.309298446	0.025353649	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2032	002000	Construction	C.1 Well Drilling	1.501175301	0.124427799	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2032	003000	Construction	C.1 Well Drilling	1.071804293	0.089451643	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2032	004000	Construction	C.1 Well Drilling	0.207200942	0.017373851	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2032	005000	Construction	C.1 Well Drilling	0.342535343	0.028893213	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2032	006000	Construction	C.1 Well Drilling	0.170572665	0.008246838	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2032	007000	Construction	C.1 Well Drilling	0.105043596	0.005081175	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2032	008000	Construction	C.1 Well Drilling	0.046928424	0.002271164	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2032	009000	Construction	C.1 Well Drilling	0.071365722	0.003455003	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2032	010000	Construction	C.1 Well Drilling	0.062008159	0.003003083	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2032	011000	Construction	C.1 Well Drilling	0.06140509	0.002980712	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2032	012000	Construction	C.1 Well Drilling	0.078696009	0.003820779	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2032	013000	Construction	C.1 Well Drilling	0.071032291	0.003449192	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2032	014000	Construction	C.1 Well Drilling	0.01920103	0.000932476	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2032	015000	Construction	C.1 Well Drilling	0.003840701	0.000186537	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2033	001000	Construction	C.1 Well Drilling	0.308918566	0.025322509	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2033	002000	Construction	C.1 Well Drilling	1.499331558	0.124274977	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2033	003000	Construction	C.1 Well Drilling	1.072338358	0.089496216	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2033	004000	Construction	C.1 Well Drilling	0.206946458	0.017352512	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2033	005000	Construction	C.1 Well Drilling	0.343036784	0.02893551	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2033	006000	Construction	C.1 Well Drilling	0.170363168	0.00823671	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2033	007000	Construction	C.1 Well Drilling	0.104914581	0.005074934	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2033	008000	Construction	C.1 Well Drilling	0.048745618	0.00235911	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2033	009000	Construction	C.1 Well Drilling	0.071278071	0.00345076	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2033	010000	Construction	C.1 Well Drilling	0.061932001	0.002999394	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2033	011000	Construction	C.1 Well Drilling	0.061329673	0.002977051	No Reduction	No Reduction

0.003482673	0.003204056	56	2030	0.00294993	0.00014269	No Reduction	No Reduction	9.7515E-05	8.9714E-05	
0.001557754	0.001433132	25	2030	0.00058834	2.8474E-05	No Reduction	No Reduction	1.9472E-05	1.7914E-05	
0.002370834	0.002181165	38	2030	0.00135996	6.5839E-05	No Reduction	No Reduction	4.5046E-05	4.1442E-05	
0.002061773	0.00189683	33	2030	0.00102616	4.9698E-05	No Reduction	No Reduction	3.4019E-05	3.1298E-05	
0.002019134	0.001857601	31	2030	0.00092477	4.489E-05	No Reduction	No Reduction	3.1297E-05	2.8793E-05	
0.002672414	0.002458619	41	2030	0.00161804	7.8558E-05	No Reduction	No Reduction	5.4784E-05	5.0402E-05	
0.002413002	0.00221996	37	2030	0.00131799	6.3999E-05	No Reduction	No Reduction	4.4641E-05	4.1069E-05	
0.000652456	0.000600259	10	2030	9.6289E-05	4.6762E-06	No Reduction	No Reduction	3.2623E-06	3.0013E-06	
0.000130538	0.000120095	2	2030	3.8521E-06	1.8709E-07	No Reduction	No Reduction	1.3054E-07	1.2009E-07	
0.012728973	0.011710644	330	2031	0.05080177	0.0041643	No Reduction	No Reduction	0.00210028	0.00193226	
0.06274976	0.057729724	1616	2031	1.21399095	0.10062397	No Reduction	No Reduction	0.05070181	0.04664562	
0.045035898	0.041432988	1155	2031	0.61881018	0.05164524	No Reduction	No Reduction	0.02600823	0.02392755	
0.008720011	0.008022403	223	2031	0.02303376	0.00193139	No Reduction	No Reduction	0.00097228	0.0008945	
0.014560184	0.013395357	371	2031	0.06363421	0.00536761	No Reduction	No Reduction	0.00270091	0.00248484	
0.005640195	0.005188974	91	2031	0.00777253	0.00037579	No Reduction	No Reduction	0.00025663	0.0002361	
0.003477526	0.003199321	56	2031	0.00294557	0.00014248	No Reduction	No Reduction	9.7371E-05	8.9581E-05	
0.001555452	0.001431014	25	2031	0.00058747	2.8432E-05	No Reduction	No Reduction	1.9443E-05	1.7888E-05	
0.00236733	0.002177942	38	2031	0.00135795	6.5742E-05	No Reduction	No Reduction	4.4979E-05	4.1381E-05	
0.002058727	0.001894027	33	2031	0.00102465	4.9624E-05	No Reduction	No Reduction	3.3969E-05	3.1251E-05	
0.002081187	0.00191469	32	2031	0.00098393	4.7762E-05	No Reduction	No Reduction	3.3299E-05	3.0635E-05	
0.002668465	0.002454985	41	2031	0.00161565	7.8442E-05	No Reduction	No Reduction	5.4704E-05	5.0327E-05	
0.002409436	0.002216679	37	2031	0.00131604	6.3904E-05	No Reduction	No Reduction	4.4575E-05	4.1009E-05	
0.000651491	0.000599372	10	2031	9.6147E-05	4.6693E-06	No Reduction	No Reduction	3.2575E-06	2.9969E-06	
0.000130345	0.000119917	2	2031	3.8464E-06	1.8681E-07	No Reduction	No Reduction	1.3034E-07	1.1992E-07	
0.012787221	0.011764232	332	2032	0.05134354	0.00420871	No Reduction	No Reduction	0.00212268	0.00195286	
0.062695936	0.057680207	1617	2032	1.21370023	0.10059988	No Reduction	No Reduction	0.05068966	0.04663445	
0.04504731	0.041443487	1157	2032	0.62003878	0.05174778	No Reduction	No Reduction	0.02605987	0.02397506	
0.008746189	0.008046486	224	2032	0.02320651	0.00194587	No Reduction	No Reduction	0.00097957	0.00090121	
0.014538699	0.01337559	371	2032	0.06354031	0.00535969	No Reduction	No Reduction	0.00269693	0.00248117	
0.005631872	0.005181317	91	2032	0.00776106	0.00037523	No Reduction	No Reduction	0.00025625	0.00023575	
0.003472395	0.0031946	56	2032	0.00294122	0.00014227	No Reduction	No Reduction	9.7227E-05	8.9449E-05	
0.001553157	0.001428903	25	2032	0.00058661	2.839E-05	No Reduction	No Reduction	1.9414E-05	1.7861E-05	
0.002363837	0.002174728	38	2032	0.00135595	6.5645E-05	No Reduction	No Reduction	4.4913E-05	4.132E-05	
0.002055689	0.001891232	33	2032	0.00102313	4.9551E-05	No Reduction	No Reduction	3.3919E-05	3.1205E-05	
0.002078116	0.001911865	32	2032	0.00098248	4.7691E-05	No Reduction	No Reduction	3.325E-05	3.059E-05	
0.002664527	0.002451363	41	2032	0.00161327	7.8326E-05	No Reduction	No Reduction	5.4623E-05	5.0253E-05	
0.00240588	0.002213408	37	2032	0.0013141	6.381E-05	No Reduction	No Reduction	4.4509E-05	4.0948E-05	
0.00065053	0.000598487	10	2032	9.6005E-05	4.6624E-06	No Reduction	No Reduction	3.2527E-06	2.9924E-06	
0.000130152	0.00011974	2	2032	3.8407E-06	1.8654E-07	No Reduction	No Reduction	1.3015E-07	1.1974E-07	
0.012771516	0.011749783	332	2033	0.05128048	0.00420354	No Reduction	No Reduction	0.00212007	0.00195046	
0.062618933	0.057609364	1617	2033	1.21220956	0.10047632	No Reduction	No Reduction	0.05062741	0.04657717	
0.045069756	0.041464137	1159	2033	0.62142008	0.05186306	No Reduction	No Reduction	0.02611792	0.02402847	
0.008735447	0.008036603	224	2033	0.023178	0.00194348	No Reduction	No Reduction	0.00097837	0.0009001	
0.014559982	0.01339517	372	2033	0.06380484	0.005382	No Reduction	No Reduction	0.00270816	0.0024915	
0.005624955	0.005174953	91	2033	0.00775152	0.00037477	No Reduction	No Reduction	0.00025594	0.00023546	
0.00346813	0.003190676	56	2033	0.00293761	0.0001421	No Reduction	No Reduction	9.7108E-05	8.9339E-05	
0.001613299	0.001484234	26	2033	0.00063369	3.0668E-05	No Reduction	No Reduction	2.0973E-05	1.9295E-05	
0.002360933	0.002172057	38	2033	0.00135428	6.5564E-05	No Reduction	No Reduction	4.4858E-05	4.1269E-05	
0.002053164	0.001888909	33	2033	0.00102188	4.949E-05	No Reduction	No Reduction	3.3877E-05	3.1167E-05	
0.002075563	0.001909516	32	2033	0.00098127	4.7633E-05	No Reduction	No Reduction	3.3209E-05	3.0552E-05	

0.003190136	56	5.69667E-05	0.397285827	2030
0.000636287	25	2.54515E-05	0.177498674	2030
0.001470848	38	3.87065E-05	0.26993924	2030
0.00110988	33	3.36327E-05	0.234554629	2030
0.001000951	31	3.22888E-05	0.225181772	2030
0.001751386	41	4.27167E-05	0.297906459	2030
0.001426627	37	3.85575E-05	0.268899843	2030
0.000104228	10	1.04228E-05	0.072688458	2030
4.1697E-06	2	2.08485E-06	0.014539729	2030
0.057066351	330	0.000172928	1.206002215	2031
1.365316726	1616	0.000844874	5.892152752	2031
0.696463644	1155	0.000602999	4.205313814	2031
0.025937424	223	0.000116311	0.811155147	2031
0.071702734	371	0.000193269	1.347856786	2031
0.00840494	91	9.2362E-05	0.64413246	2031
0.003185421	56	5.68825E-05	0.396698706	2031
0.000635347	25	2.54139E-05	0.177236361	2031
0.001468674	38	3.86493E-05	0.269540315	2031
0.00110824	33	3.3583E-05	0.234207996	2031
0.001064994	32	3.32811E-05	0.232102184	2031
0.001748798	41	4.26536E-05	0.297466203	2031
0.001424518	37	3.85005E-05	0.268502454	2031
0.000104074	10	1.04074E-05	0.072581037	2031
4.16353E-06	2	2.08177E-06	0.014518242	2031
0.057674926	332	0.00017372	1.211520895	2032
1.364989771	1617	0.00084415	5.88709874	2032
0.697846428	1157	0.000603152	4.206379419	2032
0.02613195	224	0.00011666	0.813590264	2032
0.071596926	371	0.000192984	1.345867819	2032
0.008392538	91	9.22257E-05	0.643181945	2032
0.003180721	56	5.67986E-05	0.396113316	2032
0.000634409	25	2.53764E-05	0.176974822	2032
0.001466507	38	3.85923E-05	0.269142568	2032
0.001106604	33	3.35335E-05	0.233862387	2032
0.001063423	32	3.3232E-05	0.231759682	2032
0.001746217	41	4.25907E-05	0.297027247	2032
0.001422416	37	3.84437E-05	0.268106238	2032
0.00010392	10	1.0392E-05	0.072473932	2032
4.15739E-06	2	2.07869E-06	0.014496818	2032
0.05760409	332	0.000173506	1.210032905	2033
1.363313291	1617	0.000843113	5.879868209	2033
0.699401059	1159	0.000603452	4.208475398	2033
0.026099855	224	0.000116517	0.812591013	2033
0.071895003	372	0.000193266	1.347838045	2033
0.00838223	91	9.21124E-05	0.642391989	2033
0.003176814	56	5.67288E-05	0.39562681	2033
0.000685334	26	2.6359E-05	0.18382776	2033
0.001464706	38	3.85449E-05	0.268812007	2033
0.001105245	33	3.34923E-05	0.233575157	2033
0.001062117	32	3.31911E-05	0.231475035	2033

	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2033	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2033	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2033	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2033	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	0.15%	0.12%	No Reduct	No Reduct	0.18%	0.18%	2034	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	0.54%	0.44%	No Reduct	No Reduct	0.67%	0.67%	2034	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	0.31%	0.26%	No Reduct	No Reduct	0.39%	0.39%	2034	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.05%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2034	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	0.06%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2034	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2034	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2034	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2034	8000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2034	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2034	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2034	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2034	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2034	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2034	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2034	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2034	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	0.15%	0.12%	No Reduct	No Reduct	0.18%	0.18%	2035	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	0.54%	0.44%	No Reduct	No Reduct	0.67%	0.67%	2035	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	0.31%	0.26%	No Reduct	No Reduct	0.39%	0.39%	2035	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.05%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2035	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	0.06%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2035	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2035	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2035	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2035	8000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2035	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2035	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2035	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2035	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2035	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2035	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2035	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2035	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176

16846.89225	19.81478506	251.5875537	231.4605494	2033	012000	Construction	C.1 Well Drilling	0.080516412	0.003909162	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2033	013000	Construction	C.1 Well Drilling	0.07094505	0.003444956	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2033	014000	Construction	C.1 Well Drilling	0.019177447	0.000931331	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2033	015000	Construction	C.1 Well Drilling	0.003835983	0.000186308	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2034	001000	Construction	C.1 Well Drilling	0.309393048	0.025361403	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2034	002000	Construction	C.1 Well Drilling	1.499902634	0.124322312	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2034	003000	Construction	C.1 Well Drilling	1.072607961	0.089518716	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2034	004000	Construction	C.1 Well Drilling	0.206641901	0.017326975	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2034	005000	Construction	C.1 Well Drilling	0.342531946	0.028892927	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2034	006000	Construction	C.1 Well Drilling	0.170112449	0.008224588	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2034	007000	Construction	C.1 Well Drilling	0.104760182	0.005067466	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2034	008000	Construction	C.1 Well Drilling	0.048673881	0.002355638	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2034	009000	Construction	C.1 Well Drilling	0.071173173	0.003445681	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2034	010000	Construction	C.1 Well Drilling	0.061840857	0.00299498	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2034	011000	Construction	C.1 Well Drilling	0.061239416	0.00297267	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2034	012000	Construction	C.1 Well Drilling	0.080397918	0.003903409	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2034	013000	Construction	C.1 Well Drilling	0.070840642	0.003439886	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2034	014000	Construction	C.1 Well Drilling	0.019149224	0.00092996	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2034	015000	Construction	C.1 Well Drilling	0.003830338	0.000186034	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2035	001000	Construction	C.1 Well Drilling	0.308938393	0.025324135	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2035	002000	Construction	C.1 Well Drilling	1.500472031	0.124369508	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2035	003000	Construction	C.1 Well Drilling	1.072876771	0.089541151	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2035	004000	Construction	C.1 Well Drilling	0.206338239	0.017301513	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2035	005000	Construction	C.1 Well Drilling	0.342948025	0.028928023	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2035	006000	Construction	C.1 Well Drilling	0.169862468	0.008212502	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2035	007000	Construction	C.1 Well Drilling	0.104606236	0.005060019	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2035	008000	Construction	C.1 Well Drilling	0.048602354	0.002352176	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2035	009000	Construction	C.1 Well Drilling	0.071068583	0.003440618	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2035	010000	Construction	C.1 Well Drilling	0.061749982	0.002990579	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2035	011000	Construction	C.1 Well Drilling	0.061149424	0.002968302	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2035	012000	Construction	C.1 Well Drilling	0.080279773	0.003897673	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2035	013000	Construction	C.1 Well Drilling	0.070736541	0.003434831	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2035	014000	Construction	C.1 Well Drilling	0.019121084	0.000928593	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2035	015000	Construction	C.1 Well Drilling	0.003824709	0.00018576	No Reduction	No Reduction

0.002726163	0.002508068	42	2033	0.00169084	8.2092E-05	No Reduction	No Reduction	5.7249E-05	5.2669E-05
0.002402925	0.002210689	37	2033	0.00131248	6.3732E-05	No Reduction	No Reduction	4.4454E-05	4.0898E-05
0.000649731	0.000597752	10	2033	9.5887E-05	4.6567E-06	No Reduction	No Reduction	3.2487E-06	2.9888E-06
0.000129993	0.000119593	2	2033	3.836E-06	1.8631E-07	No Reduction	No Reduction	1.2999E-07	1.1959E-07
0.012791132	0.01176783	333	2034	0.05151394	0.00422267	No Reduction	No Reduction	0.00212972	0.00195934
0.062642784	0.057631306	1620	2034	1.21492113	0.10070107	No Reduction	No Reduction	0.05074065	0.04668136
0.045081088	0.041474562	1161	2034	0.62264892	0.05196561	No Reduction	No Reduction	0.02616957	0.02407598
0.008722592	0.008024776	224	2034	0.02314389	0.00194062	No Reduction	No Reduction	0.00097693	0.00089877
0.014538554	0.013375457	372	2034	0.06371094	0.00537408	No Reduction	No Reduction	0.00270417	0.00248784
0.005616677	0.005167338	91	2034	0.00774012	0.00037422	No Reduction	No Reduction	0.00025556	0.00023511
0.003463026	0.003185981	56	2034	0.00293329	0.00014189	No Reduction	No Reduction	9.6965E-05	8.9207E-05
0.001610925	0.001482049	26	2034	0.00063276	3.0623E-05	No Reduction	No Reduction	2.0942E-05	1.9267E-05
0.002357459	0.00216886	38	2034	0.00135229	6.5468E-05	No Reduction	No Reduction	4.4792E-05	4.1208E-05
0.002050142	0.001886129	33	2034	0.00102037	4.9417E-05	No Reduction	No Reduction	3.3827E-05	3.1121E-05
0.002072509	0.001906706	32	2034	0.00097983	4.7563E-05	No Reduction	No Reduction	3.316E-05	3.0507E-05
0.002722151	0.002504377	42	2034	0.00168836	8.1972E-05	No Reduction	No Reduction	5.7165E-05	5.2592E-05
0.002399389	0.002207436	37	2034	0.00131055	6.3638E-05	No Reduction	No Reduction	4.4389E-05	4.0838E-05
0.000648775	0.000596872	10	2034	9.5746E-05	4.6498E-06	No Reduction	No Reduction	3.2439E-06	2.9844E-06
0.000129801	0.000119417	2	2034	3.8303E-06	1.8603E-07	No Reduction	No Reduction	1.298E-07	1.1942E-07
0.012772335	0.011750537	333	2035	0.05143824	0.00421647	No Reduction	No Reduction	0.00212659	0.00195646
0.062666564	0.057653185	1623	2035	1.21763305	0.10092586	No Reduction	No Reduction	0.05085392	0.04678556
0.045092386	0.041484956	1163	2035	0.62387784	0.05206818	No Reduction	No Reduction	0.02622122	0.0241235
0.008709774	0.008012984	224	2035	0.02310988	0.00193777	No Reduction	No Reduction	0.00097549	0.00089745
0.014556215	0.013391705	373	2035	0.06395981	0.00539508	No Reduction	No Reduction	0.00271473	0.00249755
0.005608423	0.005159744	91	2035	0.00772874	0.00037367	No Reduction	No Reduction	0.00025518	0.00023477
0.003457937	0.003181299	56	2035	0.00292897	0.00014168	No Reduction	No Reduction	9.6822E-05	8.9076E-05
0.001608557	0.001479871	26	2035	0.00063183	3.0578E-05	No Reduction	No Reduction	2.0911E-05	1.9238E-05
0.002353995	0.002165673	38	2035	0.0013503	6.5372E-05	No Reduction	No Reduction	4.4726E-05	4.1148E-05
0.002047129	0.001883357	33	2035	0.00101887	4.9345E-05	No Reduction	No Reduction	3.3778E-05	3.1075E-05
0.002069463	0.001903904	32	2035	0.00097839	4.7493E-05	No Reduction	No Reduction	3.3111E-05	3.0462E-05
0.002718151	0.002500697	42	2035	0.00168588	8.1851E-05	No Reduction	No Reduction	5.7081E-05	5.2515E-05
0.002395863	0.002204192	37	2035	0.00130863	6.3544E-05	No Reduction	No Reduction	4.4323E-05	4.0778E-05
0.000647822	0.000595995	10	2035	9.5605E-05	4.643E-06	No Reduction	No Reduction	3.2391E-06	2.98E-06
0.000129611	0.000119242	2	2035	3.8247E-06	1.8576E-07	No Reduction	No Reduction	1.2961E-07	1.1924E-07

0.001830186	42	4.35759E-05	0.303898107	2033
0.001420669	37	3.83965E-05	0.26777695	2033
0.000103793	10	1.03793E-05	0.07238492	2033
4.15228E-06	2	2.07614E-06	0.014479013	2033
0.05786634	333	0.000173773	1.211891449	2034
1.366362861	1620	0.000843434	5.882107773	2034
0.700784107	1161	0.000603604	4.209533475	2034
0.026061444	224	0.000116346	0.811395147	2034
0.071789198	372	0.000192982	1.345854472	2034
0.008369894	91	9.19769E-05	0.6414466	2034
0.003172139	56	5.66453E-05	0.395044578	2034
0.000684326	26	2.63202E-05	0.183557226	2034
0.00146255	38	3.84882E-05	0.268416404	2034
0.001103619	33	3.3443E-05	0.233231412	2034
0.001060554	32	3.31423E-05	0.23113438	2034
0.001827493	42	4.35117E-05	0.303450869	2034
0.001418578	37	3.834E-05	0.267382871	2034
0.00010364	10	1.0364E-05	0.072278393	2034
4.14617E-06	2	2.07309E-06	0.014457705	2034
0.057781305	333	0.000173517	1.210110566	2035
1.369412826	1623	0.000843754	5.884340756	2035
0.702167244	1163	0.000603755	4.210588442	2035
0.026023147	224	0.000116175	0.810202795	2035
0.072069617	373	0.000193216	1.3474893	2035
0.008357594	91	9.18417E-05	0.640503989	2035
0.003167477	56	5.65621E-05	0.394464057	2035
0.00068332	26	2.62815E-05	0.183287487	2035
0.001460401	38	3.84316E-05	0.268021964	2035
0.001101997	33	3.33938E-05	0.232888676	2035
0.001058995	32	3.30936E-05	0.230794726	2035
0.001824808	42	4.34478E-05	0.303004946	2035
0.001416494	37	3.82836E-05	0.26698995	2035
0.000103487	10	1.03487E-05	0.07217218	2035
4.14008E-06	2	2.07004E-06	0.014436459	2035

Final % Reduction

		NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
	1000	0.19%	0.13%	No Reduct	No Reduct	0.20%	0.20%
	2000	0.68%	0.47%	No Reduct	No Reduct	0.70%	0.70%
	3000	0.36%	0.25%	No Reduct	No Reduct	0.38%	0.38%
	4000	0.06%	0.04%	No Reduct	No Reduct	0.06%	0.06%
	5000	0.07%	0.05%	No Reduct	No Reduct	0.08%	0.08%
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%
	7000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
2012	8000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	9000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	10000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	11000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	1000	0.17%	0.12%	No Reduct	No Reduct	0.18%	0.18%
	2000	0.65%	0.44%	No Reduct	No Reduct	0.67%	0.67%
	3000	0.37%	0.26%	No Reduct	No Reduct	0.39%	0.39%
	4000	0.06%	0.04%	No Reduct	No Reduct	0.06%	0.06%
	5000	0.08%	0.05%	No Reduct	No Reduct	0.08%	0.08%
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%
	7000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
2015	8000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	9000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	10000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	11000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	1000	0.17%	0.12%	No Reduct	No Reduct	0.18%	0.18%
	2000	0.65%	0.44%	No Reduct	No Reduct	0.67%	0.67%
	3000	0.37%	0.26%	No Reduct	No Reduct	0.39%	0.39%
	4000	0.06%	0.04%	No Reduct	No Reduct	0.06%	0.06%
	5000	0.08%	0.05%	No Reduct	No Reduct	0.08%	0.08%
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%
	7000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
2016	8000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	9000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	10000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	11000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	1000	0.17%	0.12%	No Reduct	No Reduct	0.18%	0.18%

Drilling Emissions in Lbs/Well Drilled

CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB
2012	001000	Construction	C.1 Well Drilling	889.3949598	52.74499254
2012	002000	Construction	C.1 Well Drilling	1165.785878	68.6565032
2012	003000	Construction	C.1 Well Drilling	1442.176795	84.56801385
2012	004000	Construction	C.1 Well Drilling	1718.567713	100.4795245
2012	005000	Construction	C.1 Well Drilling	2271.349549	132.3025458
2012	006000	Construction	C.1 Well Drilling	5143.498427	247.3684469
2012	007000	Construction	C.1 Well Drilling	6160.153671	295.8400441
2012	008000	Construction	C.1 Well Drilling	7685.136537	368.54744
2012	009000	Construction	C.1 Well Drilling	9210.119402	441.2548359
2012	010000	Construction	C.1 Well Drilling	11751.75751	562.433829
2012	011000	Construction	C.1 Well Drilling	17376.84905	812.3437041
2012	012000	Construction	C.1 Well Drilling	21706.00576	1014.177015
2012	013000	Construction	C.1 Well Drilling	26653.61343	1244.843656
2012	014000	Construction	C.1 Well Drilling	32838.12301	1533.176957
2012	015000	Construction	C.1 Well Drilling	40259.53452	1879.176919
2015	001000	Construction	C.1 Well Drilling	802.5835351	48.79234205
2015	002000	Construction	C.1 Well Drilling	1051.798768	63.53247208
2015	003000	Construction	C.1 Well Drilling	1301.014	78.27260212
2015	004000	Construction	C.1 Well Drilling	1550.229233	93.01273216
2015	005000	Construction	C.1 Well Drilling	2048.659698	122.4929922
2015	006000	Construction	C.1 Well Drilling	5123.472228	266.380754
2015	007000	Construction	C.1 Well Drilling	6137.179107	318.7425144
2015	008000	Construction	C.1 Well Drilling	7657.739424	397.285155
2015	009000	Construction	C.1 Well Drilling	9178.299741	475.8277956
2015	010000	Construction	C.1 Well Drilling	11712.56694	606.7321966
2015	011000	Construction	C.1 Well Drilling	17402.30073	885.5183604
2015	012000	Construction	C.1 Well Drilling	21739.14145	1105.754963
2015	013000	Construction	C.1 Well Drilling	26695.53085	1357.453936
2015	014000	Construction	C.1 Well Drilling	32891.01759	1672.077654
2015	015000	Construction	C.1 Well Drilling	40325.60169	2049.626115
2016	001000	Construction	C.1 Well Drilling	763.3389208	46.54759315
2016	002000	Construction	C.1 Well Drilling	1000.28455	60.61695792
2016	003000	Construction	C.1 Well Drilling	1237.23018	74.68632269
2016	004000	Construction	C.1 Well Drilling	1474.175809	88.75568746
2016	005000	Construction	C.1 Well Drilling	1948.067068	116.894417
2016	006000	Construction	C.1 Well Drilling	5042.783384	260.999804
2016	007000	Construction	C.1 Well Drilling	6040.839654	312.331865
2016	008000	Construction	C.1 Well Drilling	7537.924059	389.3299566
2016	009000	Construction	C.1 Well Drilling	9035.008464	466.3280481
2016	010000	Construction	C.1 Well Drilling	11530.14914	594.6582007
2016	011000	Construction	C.1 Well Drilling	17169.76603	870.1619411
2016	012000	Construction	C.1 Well Drilling	21449.08203	1086.617552
2016	013000	Construction	C.1 Well Drilling	26339.72888	1333.995392
2016	014000	Construction	C.1 Well Drilling	32453.03745	1643.217693
2016	015000	Construction	C.1 Well Drilling	39789.00774	2014.284454
2017	001000	Construction	C.1 Well Drilling	719.1407087	43.99990232

Amount of Drilling Emissions Reduced in Changing 175<hp<250 Engines to Tier 4f in Lbs/Well Drilled

COLB	SOXLB	PM10LB	PM25LB	CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB	COLB	SOXLB
650.4930445	0.766405804	40.20745903	36.99086231	2012	001000	Construction	C.1 Well Drilling	1.707538583	0.069080555	No Reduction	No Reduction
855.7315035	1.008083983	52.13380846	47.96310378	2012	002000	Construction	C.1 Well Drilling	7.917750459	0.320156062	No Reduction	No Reduction
1060.969963	1.249762162	64.06015789	58.93534526	2012	003000	Construction	C.1 Well Drilling	5.208177181	0.210525971	No Reduction	No Reduction
1266.208422	1.491440341	75.98650732	69.90758673	2012	004000	Construction	C.1 Well Drilling	0.974509871	0.039383183	No Reduction	No Reduction
1676.68534	1.974796699	99.83920617	91.85206968	2012	005000	Construction	C.1 Well Drilling	1.680357441	0.067889813	No Reduction	No Reduction
3961.954751	4.661204512	182.7774876	168.1552886	2012	006000	Construction	C.1 Well Drilling	0.349952889	0.013425082	No Reduction	No Reduction
4747.390168	5.585171161	218.447303	200.9715188	2012	007000	Construction	C.1 Well Drilling	0.22312164	0.008556498	No Reduction	No Reduction
5925.543293	6.971121135	271.9520261	250.195864	2012	008000	Construction	C.1 Well Drilling	0.1166125	0.004470389	No Reduction	No Reduction
7103.696418	8.357071108	325.4567491	299.4202092	2012	009000	Construction	C.1 Well Drilling	0.167295104	0.006411801	No Reduction	No Reduction
9067.284959	10.66698773	414.6312876	381.4607846	2012	010000	Construction	C.1 Well Drilling	0.106447704	0.004078684	No Reduction	No Reduction
13484.46933	15.8601023	592.2478825	544.8680519	2012	011000	Construction	C.1 Well Drilling	0.12611613	0.004805169	No Reduction	No Reduction
16846.89225	19.81478506	739.2027504	680.0665304	2012	012000	Construction	C.1 Well Drilling	0.136197005	0.005188538	No Reduction	No Reduction
20689.6613	24.3344225	907.1511709	834.5790772	2012	013000	Construction	C.1 Well Drilling	0.100882026	0.003842785	No Reduction	No Reduction
25493.12261	29.9839693	1117.086697	1027.719761	2012	014000	Construction	C.1 Well Drilling	0.030263457	0.001152693	No Reduction	No Reduction
31257.27618	36.76342545	1369.009327	1259.488581	2012	015000	Construction	C.1 Well Drilling	0.005043757	0.000192096	No Reduction	No Reduction
650.4930445	0.766405804	36.05112075	33.16703109	2015	001000	Construction	C.1 Well Drilling	1.395635232	0.057880472	No Reduction	No Reduction
855.7315035	1.008083983	46.72603737	42.98795438	2015	002000	Construction	C.1 Well Drilling	6.805342076	0.28223449	No Reduction	No Reduction
1060.969963	1.249762162	57.40095398	52.80887767	2015	003000	Construction	C.1 Well Drilling	4.873921183	0.202133644	No Reduction	No Reduction
1266.208422	1.491440341	68.0758706	62.62980095	2015	004000	Construction	C.1 Well Drilling	0.94194576	0.039064837	No Reduction	No Reduction
1676.68534	1.974796699	89.42570384	82.27164753	2015	005000	Construction	C.1 Well Drilling	1.568469314	0.065048331	No Reduction	No Reduction
3961.954751	4.661204512	183.9929422	169.2735068	2015	006000	Construction	C.1 Well Drilling	0.384555837	0.015948489	No Reduction	No Reduction
4747.390168	5.585171161	219.9862565	202.387356	2015	007000	Construction	C.1 Well Drilling	0.237646866	0.009855808	No Reduction	No Reduction
5925.543293	6.971121135	273.9762279	252.0581296	2015	008000	Construction	C.1 Well Drilling	0.108021303	0.004479913	No Reduction	No Reduction
7103.696418	8.357071108	327.9661993	301.7289033	2015	009000	Construction	C.1 Well Drilling	0.159871528	0.006630271	No Reduction	No Reduction
9067.284959	10.66698773	417.9494849	384.5135261	2015	010000	Construction	C.1 Well Drilling	0.142588119	0.005913485	No Reduction	No Reduction
13484.46933	15.8601023	602.454831	554.2584445	2015	011000	Construction	C.1 Well Drilling	0.133946415	0.005555092	No Reduction	No Reduction
16846.89225	19.81478506	752.061946	691.8969903	2015	012000	Construction	C.1 Well Drilling	0.177154936	0.007347057	No Reduction	No Reduction
20689.6613	24.3344225	923.041506	849.1981855	2015	013000	Construction	C.1 Well Drilling	0.155550676	0.006451074	No Reduction	No Reduction
25493.12261	29.9839693	1136.765956	1045.82468	2015	014000	Construction	C.1 Well Drilling	0.043208521	0.001791965	No Reduction	No Reduction
31257.27618	36.76342545	1393.235296	1281.776472	2015	015000	Construction	C.1 Well Drilling	0.008641704	0.000358393	No Reduction	No Reduction
650.4930445	0.766405804	33.77182493	31.07007894	2016	001000	Construction	C.1 Well Drilling	1.326054238	0.055161979	No Reduction	No Reduction
855.7315035	1.008083983	43.76261426	40.26160512	2016	002000	Construction	C.1 Well Drilling	6.473724329	0.269352994	No Reduction	No Reduction
1060.969963	1.249762162	53.7534036	49.45313131	2016	003000	Construction	C.1 Well Drilling	4.638510925	0.19301962	No Reduction	No Reduction
1266.208422	1.491440341	63.74419293	58.64465749	2016	004000	Construction	C.1 Well Drilling	0.894831897	0.037239343	No Reduction	No Reduction
1676.68534	1.974796699	83.72577159	77.02770987	2016	005000	Construction	C.1 Well Drilling	1.489952112	0.062012735	No Reduction	No Reduction
3961.954751	4.661204512	178.7846588	164.4818861	2016	006000	Construction	C.1 Well Drilling	0.378118162	0.015610581	No Reduction	No Reduction
4747.390168	5.585171161	213.7816992	196.6791633	2016	007000	Construction	C.1 Well Drilling	0.233680678	0.009647854	No Reduction	No Reduction
5925.543293	6.971121135	266.2772598	244.975079	2016	008000	Construction	C.1 Well Drilling	0.106224033	0.004385784	No Reduction	No Reduction
7103.696418	8.357071108	318.7728203	293.2709947	2016	009000	Construction	C.1 Well Drilling	0.157217055	0.006491352	No Reduction	No Reduction
9067.284959	10.66698773	406.2654213	373.7641876	2016	010000	Construction	C.1 Well Drilling	0.140225948	0.005789966	No Reduction	No Reduction
13484.46933	15.8601023	587.6133242	540.6042583	2016	011000	Construction	C.1 Well Drilling	0.132023428	0.005453257	No Reduction	No Reduction
16846.89225	19.81478506	733.5667911	674.8814478	2016	012000	Construction	C.1 Well Drilling	0.174615094	0.007212626	No Reduction	No Reduction
20689.6613	24.3344225	900.3707532	828.3410929	2016	013000	Construction	C.1 Well Drilling	0.153322836	0.006333204	No Reduction	No Reduction
25493.12261	29.9839693	1108.875706	1020.165649	2016	014000	Construction	C.1 Well Drilling	0.042590197	0.001759261	No Reduction	No Reduction
31257.27618	36.76342545	1359.081649	1250.355117	2016	015000	Construction	C.1 Well Drilling	0.008518122	0.000351858	No Reduction	No Reduction
650.4930445	0.766405804	31.39998534	28.88798652	2017	001000	Construction	C.1 Well Drilling	1.247388932	0.05206411	No Reduction	No Reduction

		Wells Drilled Each Year	Amount of Drilling Emissions Reduced in Changing 175<hp<250 Engines to Tier 4f in tons/year					
PM10LB	PM25LB		CALYEAR	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB
0.079213642	0.072876481	305	2012	0.26039963	0.01053478	No Reduction	No Reduction	0.01208008	0.01111366
0.367385648	0.337994477	1414	2012	5.59784957	0.22635034	No Reduction	No Reduction	0.25974165	0.2389621
0.24169304	0.22235739	930	2012	2.42180239	0.09789458	No Reduction	No Reduction	0.11238726	0.10339619
0.045227734	0.041609474	174	2012	0.08478236	0.00342634	No Reduction	No Reduction	0.00393481	0.00362002
0.077995998	0.071756249	300	2012	0.25205362	0.01018347	No Reduction	No Reduction	0.0116994	0.01076344
0.015961839	0.014684878	69	2012	0.01207337	0.00046317	No Reduction	No Reduction	0.00055068	0.00050663
0.010174571	0.009360596	44	2012	0.00490868	0.00018824	No Reduction	No Reduction	0.00022384	0.00020593
0.005316423	0.004891105	23	2012	0.00134104	5.1409E-05	No Reduction	No Reduction	6.1139E-05	5.6248E-05
0.007625888	0.00701581	33.00	2012	0.00276037	0.00010579	No Reduction	No Reduction	0.00012583	0.00011576
0.004851431	0.004463312	21	2012	0.0011177	4.2826E-05	No Reduction	No Reduction	5.094E-05	4.6865E-05
0.0057231	0.005265247	25	2012	0.00157645	6.0065E-05	No Reduction	No Reduction	7.1539E-05	6.5816E-05
0.006179965	0.005685562	27	2012	0.00183866	7.0045E-05	No Reduction	No Reduction	8.343E-05	7.6755E-05
0.004577209	0.004211028	20	2012	0.00100882	3.8428E-05	No Reduction	No Reduction	4.5772E-05	4.211E-05
0.001373028	0.001263184	6	2012	9.079E-05	3.4581E-06	No Reduction	No Reduction	4.1191E-06	3.7896E-06
0.00022882	0.000210514	1	2012	2.5219E-06	9.6048E-08	No Reduction	No Reduction	1.1441E-07	1.0526E-07
0.06433065	0.059184142	323	2015	0.22539509	0.0093477	No Reduction	No Reduction	0.0103894	0.00955824
0.313686601	0.288591401	1575	2015	5.35920689	0.22225966	No Reduction	No Reduction	0.2470282	0.22726573
0.224659369	0.206686427	1128	2015	2.74889155	0.11400338	No Reduction	No Reduction	0.12670788	0.11657114
0.043418212	0.039944715	218	2015	0.10267209	0.00425807	No Reduction	No Reduction	0.00473259	0.00435397
0.072297298	0.06651345	363	2015	0.28467718	0.01180627	No Reduction	No Reduction	0.01312196	0.01207219
0.017725784	0.016307705	89	2015	0.01711273	0.00070971	No Reduction	No Reduction	0.0007888	0.00072569
0.010954136	0.010077795	55	2015	0.00653529	0.00027103	No Reduction	No Reduction	0.00030124	0.00027714
0.004979153	0.004580816	25	2015	0.00135027	5.5999E-05	No Reduction	No Reduction	6.2239E-05	5.726E-05
0.007369146	0.006779608	37.00	2015	0.00295762	0.00012266	No Reduction	No Reduction	0.00013633	0.00012542
0.006572482	0.006046677	33.00	2015	0.0023527	9.7572E-05	No Reduction	No Reduction	0.00010845	9.977E-05
0.006174149	0.005680212	31	2015	0.00207617	8.6104E-05	No Reduction	No Reduction	9.5699E-05	8.8043E-05
0.00816581	0.007512538	41	2015	0.00363168	0.00015061	No Reduction	No Reduction	0.0001674	0.00015401
0.00716998	0.006596375	36	2015	0.00279991	0.00011612	No Reduction	No Reduction	0.00012906	0.00011873
0.001991661	0.001832326	10	2015	0.00021604	8.9598E-06	No Reduction	No Reduction	9.9583E-06	9.1616E-06
0.000398332	0.000366465	2	2015	8.6417E-06	3.5839E-07	No Reduction	No Reduction	3.9833E-07	3.6647E-07
0.060202691	0.055386423	323	2016	0.21415776	0.00890866	No Reduction	No Reduction	0.00972273	0.00894491
0.29386889	0.270359124	1577	2016	5.10453163	0.21238484	No Reduction	No Reduction	0.23171562	0.21317817
0.210544034	0.193700331	1130	2016	2.62075867	0.10905609	No Reduction	No Reduction	0.11895738	0.10944069
0.040614542	0.037365342	218	2016	0.09753668	0.00405909	No Reduction	No Reduction	0.00442699	0.00407282
0.067620918	0.062211185	363	2016	0.27042631	0.01125531	No Reduction	No Reduction	0.0122732	0.01129133
0.017206666	0.015830118	89	2016	0.01682626	0.00069467	No Reduction	No Reduction	0.0007657	0.00070444
0.010634457	0.009783691	55	2016	0.00642622	0.00026532	No Reduction	No Reduction	0.00029245	0.00026905
0.004834358	0.004447605	25	2016	0.0013278	5.4822E-05	No Reduction	No Reduction	6.0429E-05	5.5595E-05
0.007155361	0.006582926	37	2016	0.00290852	0.00012009	No Reduction	No Reduction	0.00013237	0.00012178
0.006382306	0.005871716	33	2016	0.00231373	9.5534E-05	No Reduction	No Reduction	0.00010531	9.6883E-05
0.006015981	0.005534697	31	2016	0.00204636	8.4525E-05	No Reduction	No Reduction	9.3248E-05	8.5788E-05
0.007956967	0.007320402	41	2016	0.00357961	0.00014786	No Reduction	No Reduction	0.00016312	0.00015007
0.006986832	0.006427879	36	2016	0.00275981	0.000114	No Reduction	No Reduction	0.00012576	0.0001157
0.001940839	0.00178557	10	2016	0.00021295	8.7963E-06	No Reduction	No Reduction	9.7042E-06	8.9278E-06
0.000388176	0.000357122	2	2016	8.5181E-06	3.5186E-07	No Reduction	No Reduction	3.8818E-07	3.5712E-07
0.055890108	0.051418851	323	2017	0.20145331	0.00840835	No Reduction	No Reduction	0.00902625	0.00830414

VERA Emissions (tons/year)	Wells Drilled Each Year	VERA Emissions (tons/year-well)	VERA Fee Reduction	Year
0.283014499	305			
6.083941563	1414			
2.632084229	930			
0.092143509	174			
0.273936488	300			
0.013087223	69			
0.00532076	44			
0.001453592	23			
0.002991991	33.00			
0.001211467	21			
0.001708055	25			
0.001992134	27			
0.00109302	20			
9.83675E-05	6			
2.73234E-06	1			
0.245132186	323	0.000758923	5.292730238	2015
5.828494745	1575	0.003700632	25.80820467	2015
2.989602806	1128	0.002650357	18.4835904	2015
0.11166274	218	0.000512214	3.572183256	2015
0.309605412	363	0.000852907	5.94817671	2015
0.01861124	89	0.000209115	1.458368392	2015
0.007107562	55	0.000129228	0.901238894	2015
0.001468505	25	5.87402E-05	0.409654042	2015
0.003216612	37.00	8.69355E-05	0.606287983	2015
0.002558722	33.00	7.7537E-05	0.540743336	2015
0.002257973	31	7.28378E-05	0.507971013	2015
0.00394969	41	9.63339E-05	0.67183263	2015
0.003045091	36	8.45859E-05	0.589901821	2015
0.000234961	10	2.34961E-05	0.163861617	2015
9.39843E-06	2	4.69921E-06	0.032772323	2015
0.232789154	323	0.000720709	5.026227732	2016
5.548632089	1577	0.003518473	24.53783144	2016
2.848772137	1130	0.002521037	17.58171406	2016
0.10602275	218	0.000486343	3.391755322	2016
0.293954817	363	0.000809793	5.647495566	2016
0.018286626	89	0.000205468	1.432931772	2016
0.006983982	55	0.000126981	0.885568941	2016
0.001443052	25	5.77221E-05	0.402553839	2016
0.00316098	37	8.54319E-05	0.59580196	2016
0.002514571	33	7.61991E-05	0.531412594	2016
0.002224136	31	7.17463E-05	0.500358927	2016
0.003890586	41	9.48923E-05	0.661779204	2016
0.002999572	36	8.33214E-05	0.581083694	2016
0.000231451	10	2.31451E-05	0.161414265	2016
9.25816E-06	2	4.62908E-06	0.032283191	2016
0.218887919	323	0.000677672	4.726081565	2017

Amount of Construction - Well Drilling Emissions Reduced in C

Year	NOX	ROG	CO	SOX
2015	8.76	0.36	0.00	0.00
2016	8.35	0.35	0.00	0.00
2017	7.89	0.33	0.00	0.00
2018	6.79	0.29	0.00	0.00
2019	6.27	0.27	0.00	0.00
2020	5.21	0.24	0.00	0.00
2021	5.01	0.23	0.00	0.00
2022	3.78	0.20	0.00	0.00
2023	3.48	0.19	0.00	0.00
2024	3.09	0.18	0.00	0.00
2025	2.88	0.17	0.00	0.00
2026	2.76	0.17	0.00	0.00
2027	2.64	0.17	0.00	0.00
2028	2.46	0.17	0.00	0.00
2029	2.37	0.16	0.00	0.00
2030	2.38	0.16	0.00	0.00
2031	2.38	0.16	0.00	0.00
2032	2.38	0.16	0.00	0.00
2033	2.38	0.16	0.00	0.00
2034	2.39	0.17	0.00	0.00
2035	2.39	0.17	0.00	0.00

hanging 175 ≤ hp ≤ 250 Engines to Tier 4f		
PM10	PM25	VERA Fee Reduction Per Well
0.40	0.37	$64.99
0.38	0.35	$61.97
0.35	0.33	$58.66
0.29	0.27	$50.97
0.26	0.24	$46.53
0.22	0.21	$39.45
0.21	0.19	$37.96
0.16	0.14	$29.65
0.14	0.13	$27.56
0.12	0.11	$25.04
0.11	0.10	$23.58
0.10	0.09	$21.55
0.09	0.09	$20.73
0.09	0.08	$19.49
0.08	0.08	$18.91
0.08	0.08	$18.91
0.08	0.08	$18.91
0.08	0.08	$18.91
0.08	0.08	$18.92
0.08	0.08	$18.91
0.08	0.08	$18.91
	Average:	**$31.45**

	2000	0.65%	0.44%	No Reduct	No Reduct	0.67%	0.67%	2017	002000	Construction	C.1 Well Drilling	942.654357	57.33159172
	3000	0.37%	0.26%	No Reduct	No Reduct	0.39%	0.39%	2017	003000	Construction	C.1 Well Drilling	1166.168005	70.66328112
	4000	0.06%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2017	004000	Construction	C.1 Well Drilling	1389.681653	83.99497053
	5000	0.08%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2017	005000	Construction	C.1 Well Drilling	1836.70895	110.6583493
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2017	006000	Construction	C.1 Well Drilling	4995.849988	257.5406623
	7000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2017	007000	Construction	C.1 Well Drilling	5985.300033	308.2478279
2017	8000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2017	008000	Construction	C.1 Well Drilling	7469.4751	384.3085764
	9000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2017	009000	Construction	C.1 Well Drilling	8953.650168	460.3693248
	10000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2017	010000	Construction	C.1 Well Drilling	11427.27528	587.1372389
	11000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2017	011000	Construction	C.1 Well Drilling	17043.46992	860.972981
	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2017	012000	Construction	C.1 Well Drilling	21292.18745	1075.215018
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2017	013000	Construction	C.1 Well Drilling	26147.86464	1320.06306
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2017	014000	Construction	C.1 Well Drilling	32217.46112	1626.123112
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2017	015000	Construction	C.1 Well Drilling	39500.9769	1993.395175
	1000	0.17%	0.12%	No Reduct	No Reduct	0.18%	0.18%	2018	001000	Construction	C.1 Well Drilling	618.2650511	38.07086535
	2000	0.65%	0.44%	No Reduct	No Reduct	0.67%	0.67%	2018	002000	Construction	C.1 Well Drilling	810.1939548	49.62555854
	3000	0.37%	0.26%	No Reduct	No Reduct	0.39%	0.39%	2018	003000	Construction	C.1 Well Drilling	1002.122858	61.18025173
	4000	0.06%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2018	004000	Construction	C.1 Well Drilling	1194.051762	72.73494492
	5000	0.08%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2018	005000	Construction	C.1 Well Drilling	1577.909569	95.84433131
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2018	006000	Construction	C.1 Well Drilling	4823.38249	244.8783498
	7000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2018	007000	Construction	C.1 Well Drilling	5779.56332	293.1726627
2018	8000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2018	008000	Construction	C.1 Well Drilling	7213.834565	365.6141319
	9000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2018	009000	Construction	C.1 Well Drilling	8648.10581	438.0556011
	10000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2018	010000	Construction	C.1 Well Drilling	11038.55788	558.7913832
	11000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2018	011000	Construction	C.1 Well Drilling	16557.08617	825.6487898
	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2018	012000	Construction	C.1 Well Drilling	20685.73813	1031.209291
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2018	013000	Construction	C.1 Well Drilling	25404.19751	1266.135578
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2018	014000	Construction	C.1 Well Drilling	31302.27173	1559.793436
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2018	015000	Construction	C.1 Well Drilling	38379.9608	1912.182867
	1000	0.17%	0.12%	No Reduct	No Reduct	0.18%	0.18%	2019	001000	Construction	C.1 Well Drilling	569.7563561	35.5442175
	2000	0.65%	0.44%	No Reduct	No Reduct	0.67%	0.67%	2019	002000	Construction	C.1 Well Drilling	746.8582133	46.37616294
	3000	0.37%	0.26%	No Reduct	No Reduct	0.39%	0.39%	2019	003000	Construction	C.1 Well Drilling	923.9600705	57.20810837
	4000	0.06%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2019	004000	Construction	C.1 Well Drilling	1101.061928	68.04005381
	5000	0.08%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2019	005000	Construction	C.1 Well Drilling	1455.265642	89.70394468
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2019	006000	Construction	C.1 Well Drilling	4096.004555	186.2976253
	7000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2019	007000	Construction	C.1 Well Drilling	4907.51531	222.9474742
2019	8000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2019	008000	Construction	C.1 Well Drilling	6124.781441	277.9222474
	9000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2019	009000	Construction	C.1 Well Drilling	7342.047572	332.8970206
	10000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2019	010000	Construction	C.1 Well Drilling	9370.824458	424.5216427
	11000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2019	011000	Construction	C.1 Well Drilling	14035.91596	622.1002856
	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2019	012000	Construction	C.1 Well Drilling	17535.28226	776.8632618
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2019	013000	Construction	C.1 Well Drilling	21534.55802	953.7352345
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2019	014000	Construction	C.1 Well Drilling	26533.65273	1174.8252
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2019	015000	Construction	C.1 Well Drilling	32532.56637	1440.133159
	1000	0.17%	0.12%	No Reduct	No Reduct	0.18%	0.18%	2020	001000	Construction	C.1 Well Drilling	473.7173815	31.85752448
	2000	0.65%	0.44%	No Reduct	No Reduct	0.67%	0.67%	2020	002000	Construction	C.1 Well Drilling	619.9858554	41.56484144
	3000	0.37%	0.26%	No Reduct	No Reduct	0.39%	0.39%	2020	003000	Construction	C.1 Well Drilling	766.2543294	51.27215841
	4000	0.06%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2020	004000	Construction	C.1 Well Drilling	912.5228033	60.97947537
	5000	0.08%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2020	005000	Construction	C.1 Well Drilling	1205.059751	80.39410929
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2020	006000	Construction	C.1 Well Drilling	4023.834188	181.5986855

855.7315035	1.008083983	40.71607697	37.45879081	2017	002000	Construction	C.1 Well Drilling	6.106993078	0.255015147	No Reduction	No Reduction
1060.969963	1.249762162	50.0321686	46.02959511	2017	003000	Construction	C.1 Well Drilling	4.369356626	0.182508238	No Reduction	No Reduction
1266.208422	1.491440341	59.34826023	54.60039941	2017	004000	Construction	C.1 Well Drilling	0.846134206	0.035350117	No Reduction	No Reduction
1676.68534	1.974796699	77.98044349	71.74200801	2017	005000	Construction	C.1 Well Drilling	1.402661507	0.0586159	No Reduction	No Reduction
3961.954751	4.661204512	174.9119482	160.9189923	2017	006000	Construction	C.1 Well Drilling	0.37403371	0.015380443	No Reduction	No Reduction
4747.390168	5.585171161	209.2039957	192.4676761	2017	007000	Construction	C.1 Well Drilling	0.231182818	0.00950733	No Reduction	No Reduction
5925.543293	6.971121135	260.6420671	239.7907017	2017	008000	Construction	C.1 Well Drilling	0.105100612	0.004322685	No Reduction	No Reduction
7103.696418	8.357071108	312.0801384	287.1137273	2017	009000	Construction	C.1 Well Drilling	0.155566236	0.006398735	No Reduction	No Reduction
9067.284959	10.66698773	397.8102572	365.9854367	2017	010000	Construction	C.1 Well Drilling	0.138765108	0.005708111	No Reduction	No Reduction
13484.46933	15.8601023	577.269724	531.0881461	2017	011000	Construction	C.1 Well Drilling	0.130854535	0.005387528	No Reduction	No Reduction
16846.89225	19.81478506	720.7242274	663.0662892	2017	012000	Construction	C.1 Well Drilling	0.173076253	0.007126169	No Reduction	No Reduction
20689.6613	24.3344225	884.6722312	813.8984527	2017	013000	Construction	C.1 Well Drilling	0.151976313	0.006257602	No Reduction	No Reduction
25493.12261	29.9839693	1089.607236	1002.438657	2017	014000	Construction	C.1 Well Drilling	0.04221723	0.001738332	No Reduction	No Reduction
31257.27618	36.76342545	1335.529242	1228.686903	2017	015000	Construction	C.1 Well Drilling	0.008443698	0.000347684	No Reduction	No Reduction
650.4930445	0.766405804	25.96951865	23.89195716	2018	001000	Construction	C.1 Well Drilling	1.07742902	0.045259051	No Reduction	No Reduction
855.7315035	1.008083983	33.66149016	30.96857094	2018	002000	Construction	C.1 Well Drilling	5.244253494	0.220544948	No Reduction	No Reduction
1060.969963	1.249762162	41.35346166	38.04518473	2018	003000	Construction	C.1 Well Drilling	3.755690233	0.158056499	No Reduction	No Reduction
1266.208422	1.491440341	49.04543317	45.12179851	2018	004000	Construction	C.1 Well Drilling	0.725925751	0.030565099	No Reduction	No Reduction
1676.68534	1.974796699	64.42937617	59.27502608	2018	005000	Construction	C.1 Well Drilling	1.20652	0.050832042	No Reduction	No Reduction
3961.954751	4.661204512	163.1964128	150.1406998	2018	006000	Construction	C.1 Well Drilling	0.36057713	0.014602208	No Reduction	No Reduction
4747.390168	5.585171161	195.2569746	179.6364166	2018	007000	Construction	C.1 Well Drilling	0.222899849	0.00902874	No Reduction	No Reduction
5925.543293	6.971121135	243.3478172	223.8799918	2018	008000	Construction	C.1 Well Drilling	0.101350631	0.004106214	No Reduction	No Reduction
7103.696418	8.357071108	291.4386598	268.123567	2018	009000	Construction	C.1 Well Drilling	0.150031115	0.00607942	No Reduction	No Reduction
9067.284959	10.66698773	371.5900642	341.862859	2018	010000	Construction	C.1 Well Drilling	0.133842811	0.005424348	No Reduction	No Reduction
13484.46933	15.8601023	544.5728937	501.0070622	2018	011000	Construction	C.1 Well Drilling	0.126928687	0.005158702	No Reduction	No Reduction
16846.89225	19.81478506	679.9927161	625.5932988	2018	012000	Construction	C.1 Well Drilling	0.167893293	0.006824216	No Reduction	No Reduction
20689.6613	24.3344225	834.7582274	767.9775692	2018	013000	Construction	C.1 Well Drilling	0.147431497	0.005992922	No Reduction	No Reduction
25493.12261	29.9839693	1028.215117	945.9579072	2018	014000	Construction	C.1 Well Drilling	0.040956176	0.001664913	No Reduction	No Reduction
31257.27618	36.76342545	1260.363384	1159.534313	2018	015000	Construction	C.1 Well Drilling	0.008191709	0.000333017	No Reduction	No Reduction
650.4930445	0.766405804	23.45834049	21.58167325	2019	001000	Construction	C.1 Well Drilling	0.991400779	0.042191771	No Reduction	No Reduction
855.7315035	1.008083983	30.43243937	27.99784422	2019	002000	Construction	C.1 Well Drilling	4.839223149	0.206314299	No Reduction	No Reduction
1060.969963	1.249762162	37.40653826	34.4140152	2019	003000	Construction	C.1 Well Drilling	3.460598779	0.14770253	No Reduction	No Reduction
1266.208422	1.491440341	44.38063715	40.83018618	2019	004000	Construction	C.1 Well Drilling	0.668385317	0.028549168	No Reduction	No Reduction
1676.68534	1.974796699	58.32883492	53.66252813	2019	005000	Construction	C.1 Well Drilling	1.11412079	0.047634351	No Reduction	No Reduction
3961.954751	4.661204512	124.3601064	114.4112979	2019	006000	Construction	C.1 Well Drilling	0.305740529	0.011092299	No Reduction	No Reduction
4747.390168	5.585171161	148.7249189	136.8269254	2019	007000	Construction	C.1 Well Drilling	0.188982903	0.006855708	No Reduction	No Reduction
5925.543293	6.971121135	185.2721377	170.4503667	2019	008000	Construction	C.1 Well Drilling	0.085920537	0.00311665	No Reduction	No Reduction
7103.696418	8.357071108	221.8193565	204.0738079	2019	009000	Construction	C.1 Well Drilling	0.127181412	0.004613058	No Reduction	No Reduction
9067.284959	10.66698773	282.7313878	260.1128767	2019	010000	Construction	C.1 Well Drilling	0.113450553	0.004114753	No Reduction	No Reduction
13484.46933	15.8601023	411.1971285	378.3013582	2019	011000	Construction	C.1 Well Drilling	0.107439195	0.003881071	No Reduction	No Reduction
16846.89225	19.81478506	513.3623997	472.2934077	2019	012000	Construction	C.1 Well Drilling	0.142108872	0.0051333	No Reduction	No Reduction
20689.6613	24.3344225	630.1227096	579.7128928	2019	013000	Construction	C.1 Well Drilling	0.124786287	0.004507464	No Reduction	No Reduction
25493.12261	29.9839693	776.073097	713.9872492	2019	014000	Construction	C.1 Well Drilling	0.03466464	0.001252114	No Reduction	No Reduction
31257.27618	36.76342545	951.2135618	875.1164769	2019	015000	Construction	C.1 Well Drilling	0.006933211	0.000250429	No Reduction	No Reduction
650.4930445	0.766405804	19.78680255	18.20385834	2020	001000	Construction	C.1 Well Drilling	0.825582969	0.037874958	No Reduction	No Reduction
855.7315035	1.008083983	25.64783746	23.59601046	2020	002000	Construction	C.1 Well Drilling	4.016184663	0.18486515	No Reduction	No Reduction
1060.969963	1.249762162	31.50887236	28.98816257	2020	003000	Construction	C.1 Well Drilling	2.870670551	0.132411076	No Reduction	No Reduction
1266.208422	1.491440341	37.36990727	34.38031469	2020	004000	Construction	C.1 Well Drilling	0.555628528	0.025664815	No Reduction	No Reduction
1676.68534	1.974796699	49.09197709	45.16461892	2020	005000	Construction	C.1 Well Drilling	0.921182487	0.042626535	No Reduction	No Reduction
3961.954751	4.661204512	119.4004227	109.8483889	2020	006000	Construction	C.1 Well Drilling	0.299902266	0.010796278	No Reduction	No Reduction

0.273691046	0.251795525	1581	2017	4.82757803	0.20158947	No Reduction	No Reduction	0.21635277	0.19904436
0.195845948	0.180178105	1131	2017	2.47087117	0.10320841	No Reduction	No Reduction	0.11075088	0.10189072
0.037929811	0.034895391	219	2017	0.0926517	0.00387084	No Reduction	No Reduction	0.00415331	0.00382105
0.062885676	0.057854767	363	2017	0.25458306	0.01063879	No Reduction	No Reduction	0.01141375	0.01050064
0.016808544	0.015463845	89	2017	0.0166445	0.00068443	No Reduction	No Reduction	0.00074798	0.00068814
0.010391037	0.009559745	55	2017	0.00635753	0.00026145	No Reduction	No Reduction	0.00028575	0.00026289
0.004724909	0.004346912	25	2017	0.00131376	5.4034E-05	No Reduction	No Reduction	5.9061E-05	5.4336E-05
0.006994562	0.006434991	37	2017	0.00287798	0.00011838	No Reduction	No Reduction	0.0001294	0.00011905
0.006240047	0.005740838	33	2017	0.00228962	9.4184E-05	No Reduction	No Reduction	0.00010296	9.4724E-05
0.005901165	0.005429067	31	2017	0.00202825	8.3507E-05	No Reduction	No Reduction	9.1468E-05	8.4151E-05
0.007805867	0.00718139	41	2017	0.00354806	0.00014609	No Reduction	No Reduction	0.00016002	0.00014722
0.006854652	0.006306274	36	2017	0.00273557	0.00011264	No Reduction	No Reduction	0.00012338	0.00011351
0.001904236	0.001751895	10	2017	0.00021109	8.6917E-06	No Reduction	No Reduction	9.5212E-06	8.7595E-06
0.000380873	0.000350403	2	2017	8.4437E-06	3.4768E-07	No Reduction	No Reduction	3.8087E-07	3.504E-07
0.046440337	0.042725069	325	2018	0.17508222	0.0073546	No Reduction	No Reduction	0.00754655	0.00694282
0.226072496	0.2079865	1582	2018	4.14820451	0.17445105	No Reduction	No Reduction	0.17882334	0.16451732
0.161915922	0.14896251	1133	2018	2.12759852	0.08953901	No Reduction	No Reduction	0.09172537	0.08438726
0.031297985	0.028794118	219	2018	0.07948887	0.00334688	No Reduction	No Reduction	0.00342713	0.00315296
0.052022335	0.047860502	364	2018	0.21958664	0.00925143	No Reduction	No Reduction	0.00946806	0.00871061
0.015659084	0.014406343	89	2018	0.01604568	0.0006498	No Reduction	No Reduction	0.00069683	0.00064108
0.009683683	0.00890898	55	2018	0.00612975	0.00024829	No Reduction	No Reduction	0.0002663	0.000245
0.004404752	0.004052368	25	2018	0.00126688	5.1328E-05	No Reduction	No Reduction	5.5059E-05	5.0655E-05
0.006522088	0.006000316	37	2018	0.00277558	0.00011247	No Reduction	No Reduction	0.00012066	0.00011101
0.005819975	0.005354372	33	2018	0.00220841	8.9502E-05	No Reduction	No Reduction	9.603E-05	8.8347E-05
0.005558532	0.005113845	31	2018	0.00196739	7.996E-05	No Reduction	No Reduction	8.6157E-05	7.9265E-05
0.007353624	0.006765327	41	2018	0.00344181	0.0001399	No Reduction	No Reduction	0.00015075	0.00013869
0.006458161	0.005941502	36	2018	0.00265377	0.00010787	No Reduction	No Reduction	0.00011625	0.00010695
0.001794237	0.001650696	10	2018	0.00020478	8.3246E-06	No Reduction	No Reduction	8.9712E-06	8.2535E-06
0.000358896	0.000330184	2	2018	8.1917E-06	3.3302E-07	No Reduction	No Reduction	3.589E-07	3.3018E-07
0.041886576	0.038535613	325	2019	0.16110263	0.00685616	No Reduction	No Reduction	0.00680657	0.00626204
0.204594506	0.188226768	1586	2019	3.83750396	0.16360724	No Reduction	No Reduction	0.16224344	0.14926383
0.146370804	0.134661014	1134	2019	1.96215951	0.08374733	No Reduction	No Reduction	0.08299225	0.0763528
0.02827857	0.026016259	219	2019	0.07318819	0.00312613	No Reduction	No Reduction	0.0030965	0.00284878
0.047154897	0.043382464	365	2019	0.20332704	0.00869327	No Reduction	No Reduction	0.00860577	0.0079173
0.011914695	0.010961509	89	2019	0.01360545	0.00049361	No Reduction	No Reduction	0.0005302	0.00048779
0.00736485	0.006775655	55	2019	0.00519703	0.00018853	No Reduction	No Reduction	0.00020253	0.00018633
0.003348499	0.003080617	25	2019	0.00107401	3.8958E-05	No Reduction	No Reduction	4.1856E-05	3.8508E-05
0.004956614	0.00456008	37	2019	0.00235286	8.5342E-05	No Reduction	No Reduction	9.1697E-05	8.4361E-05
0.004421577	0.004067847	33	2019	0.00187193	6.7893E-05	No Reduction	No Reduction	7.2956E-05	6.7119E-05
0.004190832	0.003855562	31	2019	0.00166531	6.0157E-05	No Reduction	No Reduction	6.4958E-05	5.9761E-05
0.005543286	0.005099818	41	2019	0.00291323	0.00010523	No Reduction	No Reduction	0.00011364	0.00010455
0.004867651	0.004478234	36	2019	0.00224615	8.1134E-05	No Reduction	No Reduction	8.7618E-05	8.0608E-05
0.001352211	0.001244033	10	2019	0.00017332	6.2606E-06	No Reduction	No Reduction	6.7611E-06	6.2202E-06
0.000270456	0.000248819	2	2019	6.9332E-06	2.5043E-07	No Reduction	No Reduction	2.7046E-07	2.4882E-07
0.035386248	0.032555317	326	2020	0.13457002	0.00617362	No Reduction	No Reduction	0.00576796	0.00530652
0.172386145	0.158595104	1588	2020	3.18885062	0.14678293	No Reduction	No Reduction	0.1368746	0.12592451
0.123325296	0.113459167	1136	2020	1.63054087	0.07520949	No Reduction	No Reduction	0.07004877	0.06444481
0.023884249	0.021973487	220	2020	0.06111914	0.00282313	No Reduction	No Reduction	0.00262727	0.00241708
0.039627905	0.036457637	365	2020	0.1681158	0.00777934	No Reduction	No Reduction	0.00723209	0.00665352
0.011422332	0.010508536	89	2020	0.01334565	0.00048043	No Reduction	No Reduction	0.00050829	0.00046763

5.245520273	1581	0.00331785	23.13868336	2017
2.684830464	1131	0.002373855	16.5552676	2017
0.100675848	219	0.000459707	3.205997086	2017
0.2766356	363	0.000762082	5.314756673	2017
0.01807691	89	0.000203111	1.416498542	2017
0.006904733	55	0.000125541	0.875520092	2017
0.001426853	25	5.70741E-05	0.398034792	2017
0.003125751	37	8.44798E-05	0.589161895	2017
0.002486769	33	7.53566E-05	0.52553716	2017
0.00220322	31	7.10716E-05	0.495653434	2017
0.00385417	41	9.40041E-05	0.655584905	2017
0.002971594	36	8.25443E-05	0.575663833	2017
0.000229299	10	2.29299E-05	0.159913117	2017
9.17226E-06	2	4.58613E-06	0.031983656	2017
0.189983366	325	0.000584564	4.07675076	2018
4.501478912	1582	0.002845435	19.84406696	2018
2.308862893	1133	0.002037831	14.21183567	2018
0.086262877	219	0.000393894	2.747019667	2018
0.238306137	364	0.000654687	4.565788453	2018
0.01739231	89	0.000195419	1.362853578	2018
0.006644337	55	0.000120806	0.842501993	2018
0.00137327	25	5.49308E-05	0.383087392	2018
0.003008704	37	8.13163E-05	0.567099958	2018
0.002393938	33	7.25436E-05	0.505918838	2018
0.002133512	31	6.8823E-05	0.479971329	2018
0.003732458	41	9.10356E-05	0.634882038	2018
0.002877886	36	7.99413E-05	0.557510555	2018
0.000222077	10	2.22077E-05	0.154876244	2018
8.88362E-06	2	4.44181E-06	0.030977187	2018
0.174765358	325	0.00053774	3.750195713	2019
4.16335464	1586	0.002625066	18.30721013	2019
2.128899088	1134	0.001877336	13.09254166	2019
0.079410829	219	0.000362607	2.528817919	2019
0.220626082	365	0.000604455	4.215469304	2019
0.014629265	89	0.000164374	1.146342613	2019
0.005588095	55	0.000101602	0.708570469	2019
0.001154821	25	4.61928E-05	0.322148889	2019
0.002529895	37	6.83755E-05	0.47685103	2019
0.002012784	33	6.09934E-05	0.425368263	2019
0.001790422	31	5.77555E-05	0.4027872	2019
0.003132102	41	7.63927E-05	0.53276289	2019
0.002414905	36	6.70807E-05	0.46782081	2019
0.000186345	10	1.86345E-05	0.129956882	2019
7.4541E-06	2	3.72705E-06	0.025992434	2019
0.146511601	326	0.000449422	3.134269638	2020
3.472508151	1588	0.002186718	15.25017119	2020
1.775799132	1136	0.001563203	10.90178094	2020
0.066569535	220	0.000302589	2.110254261	2020
0.183127239	365	0.000501718	3.498984564	2020
0.014334379	89	0.00016106	1.123235494	2020

	7000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2020	007000	Construction	C.1 Well Drilling	4821.618634	217.3713079
2020	8000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2020	008000	Construction	C.1 Well Drilling	6018.295302	271.0302415
	9000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2020	009000	Construction	C.1 Well Drilling	7214.971971	324.6891751
	10000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2020	010000	Construction	C.1 Well Drilling	9209.433085	414.1207311
	11000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2020	011000	Construction	C.1 Well Drilling	13837.57353	609.3806479
	12000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2020	012000	Construction	C.1 Well Drilling	17288.23892	761.0419164
	13000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2020	013000	Construction	C.1 Well Drilling	21231.85651	934.3690805
	14000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2020	014000	Construction	C.1 Well Drilling	26161.3785	1151.028036
	15000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2020	015000	Construction	C.1 Well Drilling	32076.80488	1411.018782
	1000	0.17%	0.12%	No Reduct No Reduct	0.18%	0.18%	2021	001000	Construction	C.1 Well Drilling	454.0675786	30.83737278
	2000	0.65%	0.44%	No Reduct No Reduct	0.67%	0.67%	2021	002000	Construction	C.1 Well Drilling	594.768133	40.29517785
	3000	0.38%	0.26%	No Reduct No Reduct	0.39%	0.39%	2021	003000	Construction	C.1 Well Drilling	735.4686874	49.75298292
	4000	0.06%	0.04%	No Reduct No Reduct	0.06%	0.06%	2021	004000	Construction	C.1 Well Drilling	876.1692418	59.21078799
	5000	0.08%	0.05%	No Reduct No Reduct	0.08%	0.08%	2021	005000	Construction	C.1 Well Drilling	1157.570351	78.12639812
	6000	0.01%	0.01%	No Reduct No Reduct	0.01%	0.01%	2021	006000	Construction	C.1 Well Drilling	3979.529499	180.8457994
	7000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2021	007000	Construction	C.1 Well Drilling	4769.042215	216.5221677
2021	8000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2021	008000	Construction	C.1 Well Drilling	5953.31129	270.0367203
	9000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2021	009000	Construction	C.1 Well Drilling	7137.580365	323.5512728
	10000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2021	010000	Construction	C.1 Well Drilling	9111.362157	412.7421937
	11000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2021	011000	Construction	C.1 Well Drilling	13724.00099	609.9411943
	12000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2021	012000	Construction	C.1 Well Drilling	17147.00976	761.8105034
	13000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2021	013000	Construction	C.1 Well Drilling	21059.01979	935.3754282
	14000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2021	014000	Construction	C.1 Well Drilling	25949.03232	1152.331584
	15000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2021	015000	Construction	C.1 Well Drilling	31817.04735	1412.678971
	1000	0.17%	0.12%	No Reduct No Reduct	0.18%	0.18%	2022	001000	Construction	C.1 Well Drilling	341.9227276	25.77051109
	2000	0.65%	0.45%	No Reduct No Reduct	0.67%	0.67%	2022	002000	Construction	C.1 Well Drilling	446.6023834	33.65855547
	3000	0.37%	0.26%	No Reduct No Reduct	0.39%	0.39%	2022	003000	Construction	C.1 Well Drilling	551.2820392	41.54659984
	4000	0.06%	0.04%	No Reduct No Reduct	0.06%	0.06%	2022	004000	Construction	C.1 Well Drilling	655.961695	49.43464421
	5000	0.08%	0.05%	No Reduct No Reduct	0.08%	0.08%	2022	005000	Construction	C.1 Well Drilling	865.3210066	65.21073296
	6000	0.01%	0.01%	No Reduct No Reduct	0.01%	0.01%	2022	006000	Construction	C.1 Well Drilling	3920.329107	178.9607315
	7000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2022	007000	Construction	C.1 Well Drilling	4698.818176	214.3316023
2022	8000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2022	008000	Construction	C.1 Well Drilling	5866.55178	267.3879083
	9000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2022	009000	Construction	C.1 Well Drilling	7034.285384	320.4442144
	10000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2022	010000	Construction	C.1 Well Drilling	8980.508058	408.8713912
	11000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2022	011000	Construction	C.1 Well Drilling	13571.14572	607.5116973
	12000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2022	012000	Construction	C.1 Well Drilling	16956.96121	758.8630271
	13000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2022	013000	Construction	C.1 Well Drilling	20826.46463	931.8359755
	14000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2022	014000	Construction	C.1 Well Drilling	25663.3439	1148.052161
	15000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2022	015000	Construction	C.1 Well Drilling	31467.59903	1407.511583
	1000	0.17%	0.12%	No Reduct No Reduct	0.18%	0.18%	2023	001000	Construction	C.1 Well Drilling	313.9175079	24.67658143
	2000	0.65%	0.45%	No Reduct No Reduct	0.67%	0.67%	2023	002000	Construction	C.1 Well Drilling	410.0209101	32.26580395
	3000	0.37%	0.26%	No Reduct No Reduct	0.39%	0.39%	2023	003000	Construction	C.1 Well Drilling	506.1243122	39.85502648
	4000	0.06%	0.04%	No Reduct No Reduct	0.06%	0.06%	2023	004000	Construction	C.1 Well Drilling	602.2277144	47.444249
	5000	0.08%	0.05%	No Reduct No Reduct	0.08%	0.08%	2023	005000	Construction	C.1 Well Drilling	794.4345188	62.62269405
	6000	0.01%	0.01%	No Reduct No Reduct	0.01%	0.01%	2023	006000	Construction	C.1 Well Drilling	3880.922951	178.4587114
	7000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2023	007000	Construction	C.1 Well Drilling	4651.986081	213.7686709
2023	8000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2023	008000	Construction	C.1 Well Drilling	5808.580775	266.7336101
	9000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2023	009000	Construction	C.1 Well Drilling	6965.17547	319.6985494
	10000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2023	010000	Construction	C.1 Well Drilling	8892.833295	407.9734481
	11000	0.00%	0.00%	No Reduct No Reduct	0.00%	0.00%	2023	011000	Construction	C.1 Well Drilling	13468.3814	608.4672392

4747.390168	5.585171161	142.8397677	131.4125863	2020	007000	Construction	C.1 Well Drilling	0.185396188	0.006674198	No Reduction	No Reduction
5925.543293	6.971121135	177.9987851	163.7588823	2020	008000	Construction	C.1 Well Drilling	0.084299882	0.003034797	No Reduction	No Reduction
7103.696418	8.357071108	213.1578026	196.1051784	2020	009000	Construction	C.1 Well Drilling	0.124792414	0.00449256	No Reduction	No Reduction
9067.284959	10.66698773	271.756165	250.0156718	2020	010000	Construction	C.1 Well Drilling	0.111329126	0.004007911	No Reduction	No Reduction
13484.46933	15.8601023	397.7571575	365.9365849	2020	011000	Construction	C.1 Well Drilling	0.105761845	0.003796007	No Reduction	No Reduction
16846.89225	19.81478506	496.6455224	456.9138806	2020	012000	Construction	C.1 Well Drilling	0.139896315	0.005021202	No Reduction	No Reduction
20689.6613	24.3344225	609.6607966	560.8879329	2020	013000	Construction	C.1 Well Drilling	0.122847398	0.004409304	No Reduction	No Reduction
25493.12261	29.9839693	750.9298894	690.8554982	2020	014000	Construction	C.1 Well Drilling	0.034126941	0.001224908	No Reduction	No Reduction
31257.27618	36.76342545	920.4528007	846.8165766	2020	015000	Construction	C.1 Well Drilling	0.006825812	0.000244998	No Reduction	No Reduction
650.4930445	0.766405804	18.29023578	16.82701692	2021	001000	Construction	C.1 Well Drilling	0.790150771	0.036607121	No Reduction	No Reduction
855.7315035	1.008083983	23.74861487	21.84872568	2021	002000	Construction	C.1 Well Drilling	3.85189357	0.179174703	No Reduction	No Reduction
1060.969963	1.249762162	29.20699396	26.87043444	2021	003000	Construction	C.1 Well Drilling	2.758468711	0.128633859	No Reduction	No Reduction
1266.208422	1.491440341	34.66537304	31.8921432	2021	004000	Construction	C.1 Well Drilling	0.532692868	0.024883036	No Reduction	No Reduction
1676.68534	1.974796699	45.58213122	41.93556072	2021	005000	Construction	C.1 Well Drilling	0.885973589	0.041475335	No Reduction	No Reduction
3961.954751	4.661204512	115.4316973	106.1971615	2021	006000	Construction	C.1 Well Drilling	0.296155272	0.01073539	No Reduction	No Reduction
4747.390168	5.585171161	138.135017	127.0842157	2021	007000	Construction	C.1 Well Drilling	0.183099508	0.006638154	No Reduction	No Reduction
5925.543293	6.971121135	172.1899967	158.4147969	2021	008000	Construction	C.1 Well Drilling	0.083264549	0.003019136	No Reduction	No Reduction
7103.696418	8.357071108	206.2449763	189.7453782	2021	009000	Construction	C.1 Well Drilling	0.123268644	0.0044701	No Reduction	No Reduction
9067.284959	10.66698773	263.0032757	241.9630136	2021	010000	Construction	C.1 Well Drilling	0.109978371	0.003988577	No Reduction	No Reduction
13484.46933	15.8601023	387.1571718	356.184598	2021	011000	Construction	C.1 Well Drilling	0.104736459	0.003793799	No Reduction	No Reduction
16846.89225	19.81478506	483.4676901	444.7902749	2021	012000	Construction	C.1 Well Drilling	0.138545359	0.005018734	No Reduction	No Reduction
20689.6613	24.3344225	593.5368539	546.0539056	2021	013000	Construction	C.1 Well Drilling	0.121664594	0.004407432	No Reduction	No Reduction
25493.12261	29.9839693	731.1233086	672.6334439	2021	014000	Construction	C.1 Well Drilling	0.033799165	0.001224456	No Reduction	No Reduction
31257.27618	36.76342545	896.2270543	824.5288899	2021	015000	Construction	C.1 Well Drilling	0.00676038	0.000244918	No Reduction	No Reduction
650.4930445	0.766405804	13.75387874	12.65356844	2022	001000	Construction	C.1 Well Drilling	0.594109491	0.030546417	No Reduction	No Reduction
855.7315035	1.008083983	17.82438787	16.39843684	2022	002000	Construction	C.1 Well Drilling	2.897078301	0.149910378	No Reduction	No Reduction
1060.969963	1.249762162	21.89489701	20.14330525	2022	003000	Construction	C.1 Well Drilling	2.066369066	0.107349948	No Reduction	No Reduction
1266.208422	1.491440341	25.96540614	23.88817365	2022	004000	Construction	C.1 Well Drilling	0.39821389	0.020743545	No Reduction	No Reduction
1676.68534	1.974796699	34.10642441	31.37791045	2022	005000	Construction	C.1 Well Drilling	0.661301754	0.034566883	No Reduction	No Reduction
3961.954751	4.661204512	110.3747683	101.5447868	2022	006000	Construction	C.1 Well Drilling	0.29131263	0.010607577	No Reduction	No Reduction
4747.390168	5.585171161	132.1412517	121.5699516	2022	007000	Construction	C.1 Well Drilling	0.180133173	0.006561153	No Reduction	No Reduction
5925.543293	6.971121135	164.7909768	151.6076987	2022	008000	Construction	C.1 Well Drilling	0.081928216	0.002985044	No Reduction	No Reduction
7103.696418	8.357071108	197.4407019	181.6454457	2022	009000	Construction	C.1 Well Drilling	0.121302748	0.004420543	No Reduction	No Reduction
9067.284959	10.66698773	251.8569104	231.7083575	2022	010000	Construction	C.1 Well Drilling	0.108236547	0.003945253	No Reduction	No Reduction
13484.46933	15.8601023	373.7364222	343.8375084	2022	011000	Construction	C.1 Well Drilling	0.103414802	0.003773028	No Reduction	No Reduction
16846.89225	19.81478506	466.7849399	429.4421447	2022	012000	Construction	C.1 Well Drilling	0.136804588	0.004991828	No Reduction	No Reduction
20689.6613	24.3344225	573.126103	527.2760147	2022	013000	Construction	C.1 Well Drilling	0.120140839	0.004384178	No Reduction	No Reduction
25493.12261	29.9839693	706.0525568	649.5683523	2022	014000	Construction	C.1 Well Drilling	0.033376985	0.001218082	No Reduction	No Reduction
31257.27618	36.76342545	865.5643015	796.3191573	2022	015000	Construction	C.1 Well Drilling	0.006676117	0.000243657	No Reduction	No Reduction
650.4930445	0.766405804	12.11604117	11.14675788	2023	001000	Construction	C.1 Well Drilling	0.546303814	0.029295601	No Reduction	No Reduction
855.7315035	1.008083983	15.71365812	14.45656547	2023	002000	Construction	C.1 Well Drilling	2.660794353	0.143762238	No Reduction	No Reduction
1060.969963	1.249762162	19.31127507	17.76637307	2023	003000	Construction	C.1 Well Drilling	1.895928966	0.102915376	No Reduction	No Reduction
1266.208422	1.491440341	22.90889202	21.07618066	2023	004000	Construction	C.1 Well Drilling	0.36670622	0.019968928	No Reduction	No Reduction
1676.68534	1.974796699	30.10412592	27.69579585	2023	005000	Construction	C.1 Well Drilling	0.606220411	0.033145373	No Reduction	No Reduction
3961.954751	4.661204512	106.7825202	98.23991859	2023	006000	Construction	C.1 Well Drilling	0.287953146	0.010562002	No Reduction	No Reduction
4747.390168	5.585171161	127.8743862	117.6444353	2023	007000	Construction	C.1 Well Drilling	0.178071118	0.006534134	No Reduction	No Reduction
5925.543293	6.971121135	159.5121851	146.7512103	2023	008000	Construction	C.1 Well Drilling	0.080997319	0.002973286	No Reduction	No Reduction
7103.696418	8.357071108	191.1499841	175.8579854	2023	009000	Construction	C.1 Well Drilling	0.119931354	0.004403661	No Reduction	No Reduction
9067.284959	10.66698773	243.879649	224.3692771	2023	010000	Construction	C.1 Well Drilling	0.107019568	0.003930702	No Reduction	No Reduction
13484.46933	15.8601023	363.9836776	334.8649834	2023	011000	Construction	C.1 Well Drilling	0.102478231	0.003773311	No Reduction	No Reduction

0.007062791	0.006497761	55	2020	0.0050984	0.00018354	No Reduction	No Reduction	0.00019423	0.00017869
0.003212212	0.002955233	25	2020	0.00105375	3.7935E-05	No Reduction	No Reduction	4.0153E-05	3.694E-05
0.004755914	0.004375436	37	2020	0.00230866	8.3112E-05	No Reduction	No Reduction	8.7984E-05	8.0946E-05
0.004243553	0.003904065	33	2020	0.00183693	6.6131E-05	No Reduction	No Reduction	7.0019E-05	6.4417E-05
0.004047765	0.00372394	31	2020	0.00163931	5.8838E-05	No Reduction	No Reduction	6.274E-05	5.7721E-05
0.005354721	0.004926339	41	2020	0.00286787	0.00010293	No Reduction	No Reduction	0.00010977	0.00010099
0.004702509	0.004326304	36	2020	0.00221125	7.9367E-05	No Reduction	No Reduction	8.4645E-05	7.7873E-05
0.001306437	0.001201921	10	2020	0.00017063	6.1245E-06	No Reduction	No Reduction	6.5322E-06	6.0096E-06
0.000261317	0.000240411	2	2020	6.8258E-06	2.45E-07	No Reduction	No Reduction	2.6132E-07	2.4041E-07
0.032660759	0.03004787	326	2021	0.12879458	0.00596696	No Reduction	No Reduction	0.0053237	0.0048978
0.159582251	0.146815532	1590	2021	3.06225539	0.14244389	No Reduction	No Reduction	0.12686789	0.11671835
0.114445739	0.105289982	1139	2021	1.57094793	0.07325698	No Reduction	No Reduction	0.06517685	0.05996264
0.022122465	0.020352647	220	2021	0.05859622	0.00273713	No Reduction	No Reduction	0.00243347	0.00223879
0.03684016	0.033892915	366	2021	0.16213317	0.00758999	No Reduction	No Reduction	0.00674175	0.0062024
0.011026104	0.010144006	89	2021	0.01317891	0.00047772	No Reduction	No Reduction	0.00049066	0.00045141
0.006819917	0.006274317	55	2021	0.00503524	0.00018255	No Reduction	No Reduction	0.00018755	0.00017254
0.003102724	0.002854504	25	2021	0.00104081	3.7739E-05	No Reduction	No Reduction	3.8784E-05	3.5681E-05
0.004594774	0.004227188	37	2021	0.00228047	8.2697E-05	No Reduction	No Reduction	8.5003E-05	7.8203E-05
0.004100714	0.003772653	33	2021	0.00181464	6.5812E-05	No Reduction	No Reduction	6.7662E-05	6.2249E-05
0.003933985	0.003619262	31	2021	0.00162342	5.8804E-05	No Reduction	No Reduction	6.0977E-05	5.6099E-05
0.005204822	0.004788431	41	2021	0.00284018	0.00010288	No Reduction	No Reduction	0.0001067	9.8163E-05
0.004571273	0.004205567	36	2021	0.00218996	7.9334E-05	No Reduction	No Reduction	8.2283E-05	7.57E-05
0.00127007	0.001168463	10	2021	0.000169	6.1223E-06	No Reduction	No Reduction	6.3504E-06	5.8423E-06
0.000254057	0.000233733	2	2021	6.7604E-06	2.4492E-07	No Reduction	No Reduction	2.5406E-07	2.3373E-07
0.02452343	0.022561534	326	2022	0.09683985	0.00497907	No Reduction	No Reduction	0.00399732	0.00367753
0.119970242	0.110372519	1595	2022	2.31041994	0.11955353	No Reduction	No Reduction	0.09567627	0.08802208
0.085740468	0.078881157	1140	2022	1.17783037	0.06118947	No Reduction	No Reduction	0.04887207	0.04496226
0.016545573	0.015221912	220	2022	0.04380353	0.00228179	No Reduction	No Reduction	0.00182001	0.00167441
0.027524036	0.025322089	366	2022	0.12101822	0.00632574	No Reduction	No Reduction	0.0050369	0.00463394
0.010527272	0.009685081	89	2022	0.01296341	0.00047204	No Reduction	No Reduction	0.00046846	0.00043099
0.006514225	0.005993081	55	2022	0.00495366	0.00018043	No Reduction	No Reduction	0.00017914	0.00016481
0.002964953	0.002727754	25	2022	0.0010241	3.7313E-05	No Reduction	No Reduction	3.7062E-05	3.4097E-05
0.004392042	0.004040675	37	2022	0.0022441	8.178E-05	No Reduction	No Reduction	8.1253E-05	7.4752E-05
0.00392104	0.003607353	33	2022	0.0017859	6.5097E-05	No Reduction	No Reduction	6.4697E-05	5.9521E-05
0.003791926	0.003488568	31	2022	0.00160293	5.8482E-05	No Reduction	No Reduction	5.8775E-05	5.4073E-05
0.005017695	0.004616275	41	2022	0.00280449	0.00010233	No Reduction	No Reduction	0.00010286	9.4634E-05
0.004407463	0.004054862	36	2022	0.00216254	7.8915E-05	No Reduction	No Reduction	7.9334E-05	7.2988E-05
0.001224682	0.001126706	10	2022	0.00016688	6.0904E-06	No Reduction	No Reduction	6.1234E-06	5.6335E-06
0.000244998	0.000225398	2	2022	6.6761E-06	2.4366E-07	No Reduction	No Reduction	2.45E-07	2.254E-07
0.021636994	0.019906016	327	2023	0.08932067	0.00478983	No Reduction	No Reduction	0.00353765	0.00325463
0.105804057	0.09733964	1598	2023	2.12597469	0.11486603	No Reduction	No Reduction	0.08453744	0.07777437
0.07557614	0.069529984	1141	2023	1.08162747	0.05871322	No Reduction	No Reduction	0.04311619	0.03966686
0.014642336	0.013470936	221	2023	0.04052104	0.00220657	No Reduction	No Reduction	0.00161798	0.00148854
0.024257831	0.022317183	366	2023	0.11093834	0.0060656	No Reduction	No Reduction	0.00443918	0.00408404
0.010169421	0.009355858	89	2023	0.01281391	0.00047001	No Reduction	No Reduction	0.00045254	0.00041634
0.006294452	0.00579089	55	2023	0.00489696	0.00017969	No Reduction	No Reduction	0.0001731	0.00015925
0.002865683	0.002636426	25	2023	0.00101247	3.7166E-05	No Reduction	No Reduction	3.5821E-05	3.2955E-05
0.004245747	0.003906084	37	2023	0.00221873	8.1468E-05	No Reduction	No Reduction	7.8546E-05	7.2263E-05
0.003791167	0.00348787	33	2023	0.00176582	6.4857E-05	No Reduction	No Reduction	6.2554E-05	5.755E-05
0.003687452	0.003392452	31	2023	0.00158841	5.8486E-05	No Reduction	No Reduction	5.7156E-05	5.2583E-05

0.005476162	55	9.95666E-05	0.694377387	2020
0.001131836	25	4.52734E-05	0.31573701	2020
0.002479756	37	6.70204E-05	0.467400576	2020
0.00197308	33	5.97903E-05	0.416977518	2020
0.001760887	31	5.68028E-05	0.396142784	2020
0.003080581	41	7.51361E-05	0.523999295	2020
0.002375266	36	6.59796E-05	0.460141766	2020
0.000183291	10	1.83291E-05	0.127827445	2020
7.33213E-06	2	3.66606E-06	0.025567124	2020
0.14008524	326	0.000429709	2.996792834	2021
3.331567166	1590	0.002095325	14.61279838	2021
1.709381762	1139	0.001500774	10.46639895	2021
0.063766821	220	0.000289849	2.02140821	2021
0.176464902	366	0.000482145	3.362476035	2021
0.014147296	89	0.000158958	1.108575764	2021
0.005405333	55	9.82788E-05	0.685396278	2021
0.00111733	25	4.46932E-05	0.311690412	2021
0.00244817	37	6.61668E-05	0.461446979	2021
0.001948116	33	5.90338E-05	0.411701938	2021
0.001743196	31	5.62321E-05	0.392162813	2021
0.003049763	41	7.43845E-05	0.518757206	2021
0.002351579	36	6.53216E-05	0.455553182	2021
0.000181468	10	1.81468E-05	0.126556104	2021
7.25936E-06	2	3.62968E-06	0.025313374	2021
0.105816232	326	0.00032459	2.26368835	2022
2.525649739	1595	0.001583479	11.04318576	2022
1.287891904	1140	0.00112973	7.878735211	2022
0.047905331	220	0.000217752	1.518598989	2022
0.132380859	366	0.000361696	2.522470252	2022
0.013903913	89	0.000156224	1.089504359	2022
0.005313235	55	9.66043E-05	0.673718218	2022
0.001098478	25	4.39391E-05	0.306431328	2022
0.002407134	37	6.50577E-05	0.453712167	2022
0.001915697	33	5.80514E-05	0.404850602	2022
0.001720186	31	5.54899E-05	0.386986409	2022
0.003009689	41	7.34071E-05	0.511940806	2022
0.002320785	36	6.44662E-05	0.449587555	2022
0.000179099	10	1.79099E-05	0.124903462	2022
7.16477E-06	2	3.58239E-06	0.024983557	2022
0.097648153	327	0.000298618	2.082563357	2023
2.325378157	1598	0.00145518	10.14842758	2023
1.183456885	1141	0.00103721	7.233504218	2023
0.044345582	221	0.000200659	1.39939407	2023
0.121443122	366	0.000331812	2.314055546	2023
0.013736463	89	0.000154342	1.076383091	2023
0.005249742	55	9.54499E-05	0.665667269	2023
0.001085454	25	4.34181E-05	0.302798139	2023
0.002378744	37	6.42904E-05	0.448361118	2023
0.001893234	33	5.73707E-05	0.40010339	2023
0.001704054	31	5.49695E-05	0.38335727	2023

	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2023	012000	Construction	C.1 Well Drilling	16829.07493	760.1068205
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2023	013000	Construction	C.1 Well Drilling	20669.86753	933.4091991
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2023	014000	Construction	C.1 Well Drilling	25470.85828	1150.037172
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2023	015000	Construction	C.1 Well Drilling	31232.04718	1409.99074
	1000	0.17%	0.12%	No Reduct	No Reduct	0.18%	0.18%	2024	001000	Construction	C.1 Well Drilling	279.1916833	23.5733669
	2000	0.65%	0.45%	No Reduct	No Reduct	0.67%	0.67%	2024	002000	Construction	C.1 Well Drilling	364.3215201	30.8390318
	3000	0.37%	0.26%	No Reduct	No Reduct	0.39%	0.39%	2024	003000	Construction	C.1 Well Drilling	449.451357	38.1046967
	4000	0.06%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2024	004000	Construction	C.1 Well Drilling	534.5811938	45.3703616
	5000	0.08%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2024	005000	Construction	C.1 Well Drilling	704.8408675	59.9016914
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2024	006000	Construction	C.1 Well Drilling	3872.359814	180.2189412
	7000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2024	007000	Construction	C.1 Well Drilling	4642.071342	215.9074549
2024	8000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2024	008000	Construction	C.1 Well Drilling	5796.638635	269.4402256
	9000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2024	009000	Construction	C.1 Well Drilling	6951.205927	322.9729963
	10000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2024	010000	Construction	C.1 Well Drilling	8875.484748	412.1942808
	11000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2024	011000	Construction	C.1 Well Drilling	13456.8761	615.976267
	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2024	012000	Construction	C.1 Well Drilling	16815.14459	769.5262407
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2024	013000	Construction	C.1 Well Drilling	20653.16571	945.0119249
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2024	014000	Construction	C.1 Well Drilling	25450.69211	1164.36903
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2024	015000	Construction	C.1 Well Drilling	31207.7238	1427.597556
	1000	0.17%	0.12%	No Reduct	No Reduct	0.18%	0.18%	2025	001000	Construction	C.1 Well Drilling	259.2889181	22.75828312
	2000	0.65%	0.45%	No Reduct	No Reduct	0.67%	0.67%	2025	002000	Construction	C.1 Well Drilling	338.491929	29.80596118
	3000	0.37%	0.26%	No Reduct	No Reduct	0.39%	0.39%	2025	003000	Construction	C.1 Well Drilling	417.6949398	36.85363923
	4000	0.06%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2025	004000	Construction	C.1 Well Drilling	496.8979507	43.90131728
	5000	0.08%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2025	005000	Construction	C.1 Well Drilling	655.3039724	57.99667339
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2025	006000	Construction	C.1 Well Drilling	3854.5428	181.183546
	7000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2025	007000	Construction	C.1 Well Drilling	4621.115383	217.0972054
2025	8000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2025	008000	Construction	C.1 Well Drilling	5770.974257	270.9676945
	9000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2025	009000	Construction	C.1 Well Drilling	6920.833131	324.8381836
	10000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2025	010000	Construction	C.1 Well Drilling	8837.264589	414.6223321
	11000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2025	011000	Construction	C.1 Well Drilling	13418.10925	621.1381394
	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2025	012000	Construction	C.1 Well Drilling	16767.21659	776.018862
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2025	013000	Construction	C.1 Well Drilling	20594.76783	953.0254021
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2025	014000	Construction	C.1 Well Drilling	25379.20689	1174.283577
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2025	015000	Construction	C.1 Well Drilling	31120.53376	1439.793387
	1000	0.17%	0.12%	No Reduct	No Reduct	0.18%	0.18%	2026	001000	Construction	C.1 Well Drilling	248.7099637	22.54780152
	2000	0.65%	0.44%	No Reduct	No Reduct	0.67%	0.67%	2026	002000	Construction	C.1 Well Drilling	324.8772241	29.55905691
	3000	0.37%	0.26%	No Reduct	No Reduct	0.39%	0.39%	2026	003000	Construction	C.1 Well Drilling	401.0444845	36.5703123
	4000	0.06%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2026	004000	Construction	C.1 Well Drilling	477.2117449	43.58156769
	5000	0.08%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2026	005000	Construction	C.1 Well Drilling	629.5462656	57.60407848
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2026	006000	Construction	C.1 Well Drilling	2751.246266	132.6260497
	7000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2026	007000	Construction	C.1 Well Drilling	3297.453882	158.8484526
2026	8000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2026	008000	Construction	C.1 Well Drilling	4116.765307	198.1820569
	9000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2026	009000	Construction	C.1 Well Drilling	4936.076732	237.5156612
	10000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2026	010000	Construction	C.1 Well Drilling	6301.595774	303.0716684
	11000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2026	011000	Construction	C.1 Well Drilling	9527.043073	450.2183429
	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2026	012000	Construction	C.1 Well Drilling	11903.7518	562.3944198
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2026	013000	Construction	C.1 Well Drilling	14619.99034	690.5956505
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2026	014000	Construction	C.1 Well Drilling	18015.28851	850.8471889
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2026	015000	Construction	C.1 Well Drilling	22089.64632	1043.149035
	1000	0.17%	0.12%	No Reduct	No Reduct	0.18%	0.18%	2027	001000	Construction	C.1 Well Drilling	237.4394104	22.28579071

16846.89225	19.81478506	454.6487994	418.2768955	2023	012000	Construction	C.1 Well Drilling	0.135569783	0.004992533	No Reduction	No Reduction
20689.6613	24.3344225	558.2660815	513.604795	2023	013000	Construction	C.1 Well Drilling	0.119059162	0.004385012	No Reduction	No Reduction
25493.12261	29.9839693	687.7876841	632.7646694	2023	014000	Construction	C.1 Well Drilling	0.033077102	0.001218363	No Reduction	No Reduction
31257.27618	36.76342545	843.2136073	775.7565187	2023	015000	Construction	C.1 Well Drilling	0.006616233	0.000243721	No Reduction	No Reduction
650.4930445	0.766405804	10.7065109	9.849990027	2024	001000	Construction	C.1 Well Drilling	0.485145674	0.027944094	No Reduction	No Reduction
855.7315035	1.008083983	13.88905201	12.77792785	2024	002000	Construction	C.1 Well Drilling	2.362179037	0.137285841	No Reduction	No Reduction
1060.969963	1.249762162	17.07159313	15.70586568	2024	003000	Construction	C.1 Well Drilling	1.682592735	0.098334774	No Reduction	No Reduction
1266.208422	1.491440341	20.25413424	18.6338035	2024	004000	Construction	C.1 Well Drilling	0.325029071	0.019067529	No Reduction	No Reduction
1676.68534	1.974796699	26.61921647	24.48967915	2024	005000	Construction	C.1 Well Drilling	0.539984446	0.031830831	No Reduction	No Reduction
3961.954751	4.661204512	105.3744057	96.94445324	2024	006000	Construction	C.1 Well Drilling	0.293335678	0.010889584	No Reduction	No Reduction
4747.390168	5.585171161	126.2175093	116.1201086	2024	007000	Construction	C.1 Well Drilling	0.177426253	0.006589654	No Reduction	No Reduction
5925.543293	6.971121135	157.4821648	144.8835916	2024	008000	Construction	C.1 Well Drilling	0.08071009	0.002998972	No Reduction	No Reduction
7103.696418	8.357071108	188.7468202	173.6470746	2024	009000	Construction	C.1 Well Drilling	0.119512084	0.004442121	No Reduction	No Reduction
9067.284959	10.66698773	240.8545793	221.5862129	2024	010000	Construction	C.1 Well Drilling	0.106651291	0.003965438	No Reduction	No Reduction
13484.46933	15.8601023	360.6164814	331.7671629	2024	011000	Construction	C.1 Well Drilling	0.102237791	0.003814173	No Reduction	No Reduction
16846.89225	19.81478506	450.4808799	414.4424095	2024	012000	Construction	C.1 Well Drilling	0.135255288	0.005046853	No Reduction	No Reduction
20689.6613	24.3344225	553.1830496	508.9284056	2024	013000	Construction	C.1 Well Drilling	0.118785313	0.00443289	No Reduction	No Reduction
25493.12261	29.9839693	681.5607616	627.0359007	2024	014000	Construction	C.1 Well Drilling	0.03300156	0.001231704	No Reduction	No Reduction
31257.27618	36.76342545	835.6140162	768.7648949	2024	015000	Construction	C.1 Well Drilling	0.006601208	0.000246396	No Reduction	No Reduction
650.4930445	0.766405804	9.567177173	8.801802999	2025	001000	Construction	C.1 Well Drilling	0.451265044	0.027020038	No Reduction	No Reduction
855.7315035	1.008083983	12.43192262	11.43736881	2025	002000	Construction	C.1 Well Drilling	2.194174341	0.132654802	No Reduction	No Reduction
1060.969963	1.249762162	15.29666807	14.07293462	2025	003000	Construction	C.1 Well Drilling	1.564110417	0.09513074	No Reduction	No Reduction
1266.208422	1.491440341	18.16141351	16.70850043	2025	004000	Construction	C.1 Well Drilling	0.301666925	0.018422633	No Reduction	No Reduction
1676.68534	1.974796699	23.8909044	21.97963205	2025	005000	Construction	C.1 Well Drilling	0.50128526	0.030772582	No Reduction	No Reduction
3961.954751	4.661204512	103.286051	95.02316693	2025	006000	Construction	C.1 Well Drilling	0.291550652	0.010931546	No Reduction	No Reduction
4747.390168	5.585171161	123.7486731	113.8487792	2025	007000	Construction	C.1 Well Drilling	0.179568511	0.006736379	No Reduction	No Reduction
5925.543293	6.971121135	154.4426061	142.0871976	2025	008000	Construction	C.1 Well Drilling	0.080232939	0.003011476	No Reduction	No Reduction
7103.696418	8.357071108	185.1365392	170.325616	2025	009000	Construction	C.1 Well Drilling	0.118812465	0.004461113	No Reduction	No Reduction
9067.284959	10.66698773	236.2930943	217.3896467	2025	010000	Construction	C.1 Well Drilling	0.106033684	0.003982849	No Reduction	No Reduction
13484.46933	15.8601023	355.2807659	326.8583046	2025	011000	Construction	C.1 Well Drilling	0.101791259	0.003840401	No Reduction	No Reduction
16846.89225	19.81478506	443.8577221	408.3491044	2025	012000	Construction	C.1 Well Drilling	0.134668673	0.005081846	No Reduction	No Reduction
20689.6613	24.3344225	545.0885293	501.481447	2025	013000	Construction	C.1 Well Drilling	0.118272827	0.004463815	No Reduction	No Reduction
25493.12261	29.9839693	671.6270382	617.8968752	2025	014000	Construction	C.1 Well Drilling	0.032859797	0.00124034	No Reduction	No Reduction
31257.27618	36.76342545	823.473249	757.5953891	2025	015000	Construction	C.1 Well Drilling	0.00657295	0.00024813	No Reduction	No Reduction
650.4930445	0.766405804	8.829692143	8.123316771	2026	001000	Construction	C.1 Well Drilling	0.432209041	0.026730285	No Reduction	No Reduction
855.7315035	1.008083983	11.49217578	10.57280172	2026	002000	Construction	C.1 Well Drilling	2.105412496	0.131524159	No Reduction	No Reduction
1060.969963	1.249762162	14.15465942	13.02228666	2026	003000	Construction	C.1 Well Drilling	1.5021464	0.094423628	No Reduction	No Reduction
1266.208422	1.491440341	16.81714305	15.47177161	2026	004000	Construction	C.1 Well Drilling	0.290593062	0.018343855	No Reduction	No Reduction
1676.68534	1.974796699	22.14211033	20.3707415	2026	005000	Construction	C.1 Well Drilling	0.480864495	0.030518769	No Reduction	No Reduction
3961.954751	4.661204512	61.34753113	56.43972864	2026	006000	Construction	C.1 Well Drilling	0.207789471	0.007989959	No Reduction	No Reduction
4747.390168	5.585171161	73.44858911	67.57270198	2026	007000	Construction	C.1 Well Drilling	0.127942557	0.004921621	No Reduction	No Reduction
5925.543293	6.971121135	91.60017608	84.27216199	2026	008000	Construction	C.1 Well Drilling	0.057149522	0.002199273	No Reduction	No Reduction
7103.696418	8.357071108	109.751763	100.971622	2026	009000	Construction	C.1 Well Drilling	0.084613265	0.003257027	No Reduction	No Reduction
9067.284959	10.66698773	140.004408	128.8040554	2026	010000	Construction	C.1 Well Drilling	0.075496959	0.002906962	No Reduction	No Reduction
13484.46933	15.8601023	208.1908107	191.5355459	2026	011000	Construction	C.1 Well Drilling	0.072165599	0.002779486	No Reduction	No Reduction
16846.89225	19.81478506	260.0279531	239.2257169	2026	012000	Construction	C.1 Well Drilling	0.095464609	0.003677419	No Reduction	No Reduction
20689.6613	24.3344225	319.2704015	293.7287694	2026	013000	Construction	C.1 Well Drilling	0.08616429	0.003319538	No Reduction	No Reduction
25493.12261	29.9839693	393.3234621	361.8575851	2026	014000	Construction	C.1 Well Drilling	0.023290616	0.000897372	No Reduction	No Reduction
31257.27618	36.76342545	482.1871347	443.6121639	2026	015000	Construction	C.1 Well Drilling	0.004658595	0.000179506	No Reduction	No Reduction
650.4930445	0.766405804	8.101693118	7.453557668	2027	001000	Construction	C.1 Well Drilling	0.413265748	0.026460825	No Reduction	No Reduction

0.004879929	0.00448953	41	2023	0.00277918	0.00010235	No Reduction	No Reduction	0.00010004	9.2035E-05
0.004286766	0.003943821	36	2023	0.00214306	7.893E-05	No Reduction	No Reduction	7.7162E-05	7.0989E-05
0.001191216	0.001095918	10	2023	0.00016539	6.0918E-06	No Reduction	No Reduction	5.9561E-06	5.4796E-06
0.000238314	0.000219249	2	2023	6.6162E-06	2.4372E-07	No Reduction	No Reduction	2.3831E-07	2.1925E-07
0.019091284	0.017563965	327	2024	0.07932132	0.00456886	No Reduction	No Reduction	0.00312142	0.00287171
0.093437305	0.08596224	1599	2024	1.88856214	0.10976003	No Reduction	No Reduction	0.07470313	0.06872681
0.066769674	0.061428043	1142	2024	0.96076045	0.05614916	No Reduction	No Reduction	0.03812548	0.03507541
0.012926203	0.011892095	221	2024	0.03591571	0.00210696	No Reduction	No Reduction	0.00142835	0.00131408
0.021534706	0.01981191	368	2024	0.09935714	0.00585687	No Reduction	No Reduction	0.00396239	0.00364539
0.01024551	0.00942586	91	2024	0.01334677	0.00049548	No Reduction	No Reduction	0.00046617	0.00042888
0.006203617	0.005707322	55	2024	0.00487922	0.00018122	No Reduction	No Reduction	0.0001706	0.00015695
0.002824989	0.002598987	25	2024	0.00100888	3.7487E-05	No Reduction	No Reduction	3.5312E-05	3.2487E-05
0.004186109	0.003851216	37	2024	0.00221097	8.2179E-05	No Reduction	No Reduction	7.7443E-05	7.1248E-05
0.003738551	0.003439463	33	2024	0.00175975	6.543E-05	No Reduction	No Reduction	6.1686E-05	5.6751E-05
0.003647884	0.00335605	31	2024	0.00158469	5.912E-05	No Reduction	No Reduction	5.6542E-05	5.2019E-05
0.004827973	0.004441731	41	2024	0.00277273	0.00010346	No Reduction	No Reduction	9.8973E-05	9.1055E-05
0.004241391	0.003902076	36	2024	0.00213814	7.9792E-05	No Reduction	No Reduction	7.6345E-05	7.0237E-05
0.001178669	0.001084374	10	2024	0.00016501	6.1585E-06	No Reduction	No Reduction	5.8933E-06	5.4219E-06
0.000235814	0.000216949	2	2024	6.6012E-06	2.464E-07	No Reduction	No Reduction	2.3581E-07	2.1695E-07
0.01708634	0.015719418	328	2025	0.07400747	0.00443129	No Reduction	No Reduction	0.00280216	0.00257798
0.083614352	0.076925131	1601	2025	1.75643656	0.10619017	No Reduction	No Reduction	0.06693329	0.06157857
0.059843079	0.055055581	1144	2025	0.89467116	0.05441478	No Reduction	No Reduction	0.03423024	0.03149179
0.011573345	0.010647467	221	2025	0.0333342	0.0020357	No Reduction	No Reduction	0.00127885	0.00117655
0.019298708	0.017754794	368	2025	0.09223649	0.00566216	No Reduction	No Reduction	0.00355096	0.00326688
0.010027486	0.009225278	91	2025	0.01326555	0.00049739	No Reduction	No Reduction	0.00045625	0.00041975
0.006183626	0.00568893	56	2025	0.00502792	0.00018862	No Reduction	No Reduction	0.00017314	0.00015929
0.002766333	0.002545024	25	2025	0.00100291	3.7643E-05	No Reduction	No Reduction	3.4579E-05	3.1813E-05
0.004099916	0.003771919	37	2025	0.00219803	8.2531E-05	No Reduction	No Reduction	7.5848E-05	6.9781E-05
0.003662278	0.003369293	33	2025	0.00174956	6.5717E-05	No Reduction	No Reduction	6.0428E-05	5.5593E-05
0.003588551	0.003301463	31	2025	0.00157776	5.9526E-05	No Reduction	No Reduction	5.5623E-05	5.1173E-05
0.004749897	0.004369901	41	2025	0.00276071	0.00010418	No Reduction	No Reduction	9.7373E-05	8.9583E-05
0.004173097	0.003839246	36	2025	0.00212891	8.0349E-05	No Reduction	No Reduction	7.5116E-05	6.9106E-05
0.001159758	0.001066976	10	2025	0.0001643	6.2017E-06	No Reduction	No Reduction	5.7988E-06	5.3349E-06
0.000232041	0.000213478	2	2025	6.5729E-06	2.4813E-07	No Reduction	No Reduction	2.3204E-07	2.1348E-07
0.015745763	0.014486088	328	2026	0.07088228	0.00438377	No Reduction	No Reduction	0.00258231	0.00237572
0.077275159	0.071093079	1603	2026	1.68748812	0.10541661	No Reduction	No Reduction	0.06193604	0.0569811
0.055389575	0.050958361	1146	2026	0.86072989	0.05410474	No Reduction	No Reduction	0.03173823	0.02919914
0.010749174	0.00988923	222	2026	0.03225583	0.00203617	No Reduction	No Reduction	0.00119316	0.0010977
0.017859429	0.016430659	368	2026	0.08847907	0.00561545	No Reduction	No Reduction	0.00328613	0.00302324
0.005947034	0.005471266	91	2026	0.00945442	0.00036354	No Reduction	No Reduction	0.00027059	0.00024894
0.003664705	0.003371525	56	2026	0.00358239	0.00013781	No Reduction	No Reduction	0.00010261	9.4403E-05
0.001638274	0.001507211	25	2026	0.00071437	2.7491E-05	No Reduction	No Reduction	2.0478E-05	1.884E-05
0.002426874	0.002232722	37	2026	0.00156535	6.0255E-05	No Reduction	No Reduction	4.4897E-05	4.1305E-05
0.002166681	0.001993345	33	2026	0.0012457	4.7965E-05	No Reduction	No Reduction	3.575E-05	3.289E-05
0.002099722	0.001931743	31	2026	0.00111857	4.3082E-05	No Reduction	No Reduction	3.2546E-05	2.9942E-05
0.002778519	0.002556235	41	2026	0.00195702	7.5387E-05	No Reduction	No Reduction	5.696E-05	5.2403E-05
0.002508432	0.002307755	37	2026	0.00159404	6.1411E-05	No Reduction	No Reduction	4.6406E-05	4.2693E-05
0.000678175	0.000623921	10	2026	0.00011645	4.4869E-06	No Reduction	No Reduction	3.3909E-06	3.1196E-06
0.00013567	0.000124816	2	2026	4.6586E-06	1.7951E-07	No Reduction	No Reduction	1.3567E-07	1.2482E-07
0.014470045	0.013312429	329	2027	0.06798222	0.00435281	No Reduction	No Reduction	0.00238032	0.00218989

0.002981566	41	7.27211E-05	0.507157105	2023
0.002299157	36	6.38655E-05	0.445397785	2023
0.000177433	10	1.77433E-05	0.123742058	2023
7.09827E-06	2	3.54913E-06	0.024751661	2023
0.087011602	327	0.000266091	1.855715328	2024
2.073025295	1599	0.001296451	9.041449913	2024
1.055035092	1142	0.000923849	6.442920079	2024
0.03945102	221	0.000178511	1.244938516	2024
0.109176397	368	0.000296675	2.06901139	2024
0.01430842	91	0.000157235	1.096559583	2024
0.005231037	55	9.51098E-05	0.663295481	2024
0.001081676	25	4.3267E-05	0.301744234	2024
0.002370596	37	6.40702E-05	0.446825277	2024
0.001886862	33	5.71776E-05	0.398756858	2024
0.001700348	31	5.48499E-05	0.38252337	2024
0.002975167	41	7.25651E-05	0.506068708	2024
0.002294273	36	6.37298E-05	0.444451608	2024
0.00017706	10	1.7706E-05	0.12348141	2024
7.08342E-06	2	3.54171E-06	0.024699878	2024
0.081240913	328	0.000247686	1.727360149	2025
1.929560017	1601	0.001205222	8.405216464	2025
0.983316183	1144	0.000859542	5.994446731	2025
0.036648751	221	0.000165831	1.156508541	2025
0.101449605	368	0.000275678	1.922580287	2025
0.014219191	91	0.000156255	1.089721269	2025
0.005389678	56	9.62443E-05	0.671207455	2025
0.001075134	25	4.30054E-05	0.299919478	2025
0.00235641	37	6.36867E-05	0.444151373	2025
0.0018757	33	5.68394E-05	0.396398016	2025
0.001692913	31	5.46101E-05	0.380850876	2025
0.002962259	41	7.22502E-05	0.503872952	2025
0.002284375	36	6.34549E-05	0.44253426	2025
0.000176299	10	1.76299E-05	0.122951253	2025
7.05312E-06	2	3.52656E-06	0.024594234	2025
0.077848355	328	0.000237343	1.655226908	2026
1.854840768	1603	0.001157106	8.069656593	2026
0.946572853	1146	0.00082598	5.760383136	2026
0.035485156	222	0.000159843	1.1147454	2026
0.097380655	368	0.000264621	1.84546927	2026
0.010088554	91	0.000110863	0.773160181	2026
0.003822809	56	6.82644E-05	0.476076216	2026
0.000762338	25	3.04935E-05	0.212661909	2026
0.001670498	37	4.51486E-05	0.314866219	2026
0.001329415	33	4.02853E-05	0.280949692	2026
0.001194195	31	3.85224E-05	0.268655242	2026
0.002089371	41	5.09603E-05	0.355396947	2026
0.001701857	37	4.59961E-05	0.320777009	2026
0.000124331	10	1.24331E-05	0.08670831	2026
4.97377E-06	2	2.48689E-06	0.01734354	2026
0.074715344	329	0.000227098	1.583783606	2027

	2000	0.65%	0.44%	No Reduct	No Reduct	0.67%	0.67%	2027	002000	Construction	C.1 Well Drilling	310.3226543	29.23918253
	3000	0.37%	0.26%	No Reduct	No Reduct	0.39%	0.39%	2027	003000	Construction	C.1 Well Drilling	383.2058981	36.19257436
	4000	0.06%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2027	004000	Construction	C.1 Well Drilling	456.089142	43.14596618
	5000	0.08%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2027	005000	Construction	C.1 Well Drilling	601.8556298	57.05274983
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2027	006000	Construction	C.1 Well Drilling	2732.765427	134.013557
	7000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2027	007000	Construction	C.1 Well Drilling	3275.560577	160.5311453
2027	8000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2027	008000	Construction	C.1 Well Drilling	4089.753302	200.3075278
	9000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2027	009000	Construction	C.1 Well Drilling	4903.946026	240.0839103
	10000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2027	010000	Construction	C.1 Well Drilling	6260.9339	306.3778812
	11000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2027	011000	Construction	C.1 Well Drilling	9482.797117	456.3735298
	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2027	012000	Construction	C.1 Well Drilling	11848.79898	570.1105084
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2027	013000	Construction	C.1 Well Drilling	14552.8011	700.0956269
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2027	014000	Construction	C.1 Well Drilling	17932.80376	862.5770249
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2027	015000	Construction	C.1 Well Drilling	21988.80695	1057.554703
	1000	0.17%	0.12%	No Reduct	No Reduct	0.18%	0.18%	2028	001000	Construction	C.1 Well Drilling	220.3047946	21.91287962
	2000	0.65%	0.45%	No Reduct	No Reduct	0.67%	0.67%	2028	002000	Construction	C.1 Well Drilling	287.738463	28.7537402
	3000	0.37%	0.26%	No Reduct	No Reduct	0.39%	0.39%	2028	003000	Construction	C.1 Well Drilling	355.1721314	35.59460077
	4000	0.06%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2028	004000	Construction	C.1 Well Drilling	422.6057999	42.43546135
	5000	0.08%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2028	005000	Construction	C.1 Well Drilling	557.4731368	56.11718251
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2028	006000	Construction	C.1 Well Drilling	2729.804588	136.2304136
	7000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2028	007000	Construction	C.1 Well Drilling	3272.164748	163.1984367
2028	8000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2028	008000	Construction	C.1 Well Drilling	4085.704988	203.6504715
	9000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2028	009000	Construction	C.1 Well Drilling	4899.245228	244.1025062
	10000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2028	010000	Construction	C.1 Well Drilling	6255.145627	311.522564
	11000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2028	011000	Construction	C.1 Well Drilling	9482.668135	464.5924702
	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2028	012000	Construction	C.1 Well Drilling	11848.83422	580.3930133
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2028	013000	Construction	C.1 Well Drilling	14553.02403	712.7364911
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2028	014000	Construction	C.1 Well Drilling	17933.2613	878.1658384
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2028	015000	Construction	C.1 Well Drilling	21989.54602	1076.681055
	1000	0.17%	0.12%	No Reduct	No Reduct	0.18%	0.18%	2029	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	0.65%	0.44%	No Reduct	No Reduct	0.67%	0.67%	2029	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	0.37%	0.26%	No Reduct	No Reduct	0.39%	0.39%	2029	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.06%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2029	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	0.08%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2029	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2029	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2029	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2029	8000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2029	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2029	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2029	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2029	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2029	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2029	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2029	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2029	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	0.17%	0.12%	No Reduct	No Reduct	0.18%	0.18%	2030	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	0.65%	0.45%	No Reduct	No Reduct	0.67%	0.67%	2030	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	0.37%	0.26%	No Reduct	No Reduct	0.39%	0.39%	2030	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.06%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2030	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	0.08%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2030	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2030	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451

855.7315035	1.008083983	10.56198754	9.71702854	2027	002000	Construction	C.1 Well Drilling	2.009352548	0.129988495	No Reduction	No Reduction
1060.969963	1.249762162	13.02228197	11.98049941	2027	003000	Construction	C.1 Well Drilling	1.435697874	0.09347224	No Reduction	No Reduction
1266.208422	1.491440341	15.48257639	14.24397028	2027	004000	Construction	C.1 Well Drilling	0.277317796	0.018133509	No Reduction	No Reduction
1676.68534	1.974796699	20.40316524	18.77091203	2027	005000	Construction	C.1 Well Drilling	0.460277582	0.030263753	No Reduction	No Reduction
3961.954751	4.661204512	59.61227168	54.84328995	2027	006000	Construction	C.1 Well Drilling	0.206086866	0.008061547	No Reduction	No Reduction
4747.390168	5.585171161	71.39056405	65.67931893	2027	007000	Construction	C.1 Well Drilling	0.126904148	0.004966362	No Reduction	No Reduction
5925.543293	6.971121135	89.05800261	81.9333624	2027	008000	Construction	C.1 Well Drilling	0.056690135	0.002219556	No Reduction	No Reduction
7103.696418	8.357071108	106.7254412	98.18740587	2027	009000	Construction	C.1 Well Drilling	0.0862061	0.003376198	No Reduction	No Reduction
9067.284959	10.66698773	136.1711721	125.2774783	2027	010000	Construction	C.1 Well Drilling	0.074898294	0.002934306	No Reduction	No Reduction
13484.46933	15.8601023	203.5993388	187.3113917	2027	011000	Construction	C.1 Well Drilling	0.071723659	0.002813297	No Reduction	No Reduction
16846.89225	19.81478506	254.3189711	233.9734534	2027	012000	Construction	C.1 Well Drilling	0.094882639	0.003722332	No Reduction	No Reduction
20689.6613	24.3344225	312.2842651	287.3015239	2027	013000	Construction	C.1 Well Drilling	0.085640799	0.0033602	No Reduction	No Reduction
25493.12261	29.9839693	384.7408826	353.961612	2027	014000	Construction	C.1 Well Drilling	0.023149512	0.00090839	No Reduction	No Reduction
31257.27618	36.76342545	471.6888236	433.9537177	2027	015000	Construction	C.1 Well Drilling	0.004630435	0.000181714	No Reduction	No Reduction
650.4930445	0.766405804	7.431979033	6.83742071	2028	001000	Construction	C.1 Well Drilling	0.382873584	0.025979431	No Reduction	No Reduction
855.7315035	1.008083983	9.688992596	8.913873189	2028	002000	Construction	C.1 Well Drilling	1.864992583	0.127958919	No Reduction	No Reduction
1060.969963	1.249762162	11.94600616	10.99032567	2028	003000	Construction	C.1 Well Drilling	1.33100766	0.091951348	No Reduction	No Reduction
1266.208422	1.491440341	14.20301972	13.06677815	2028	004000	Construction	C.1 Well Drilling	0.256577345	0.017808422	No Reduction	No Reduction
1676.68534	1.974796699	18.71704685	17.2196831	2028	005000	Construction	C.1 Well Drilling	0.425702587	0.029723293	No Reduction	No Reduction
3961.954751	4.661204512	58.97986828	54.26147881	2028	006000	Construction	C.1 Well Drilling	0.205557992	0.008182736	No Reduction	No Reduction
4747.390168	5.585171161	70.64365426	64.99216192	2028	007000	Construction	C.1 Well Drilling	0.126584402	0.005041386	No Reduction	No Reduction
5925.543293	6.971121135	88.13933324	81.08818658	2028	008000	Construction	C.1 Well Drilling	0.056549951	0.002253248	No Reduction	No Reduction
7103.696418	8.357071108	105.6350122	97.18421124	2028	009000	Construction	C.1 Well Drilling	0.085995622	0.003427614	No Reduction	No Reduction
9067.284959	10.66698773	134.7944772	124.010919	2028	010000	Construction	C.1 Well Drilling	0.074717973	0.00297915	No Reduction	No Reduction
13484.46933	15.8601023	202.0884447	185.9213691	2028	011000	Construction	C.1 Well Drilling	0.071616217	0.002859711	No Reduction	No Reduction
16846.89225	19.81478506	252.4453213	232.2496956	2028	012000	Construction	C.1 Well Drilling	0.094742075	0.003783843	No Reduction	No Reduction
20689.6613	24.3344225	309.9960374	285.1963544	2028	013000	Construction	C.1 Well Drilling	0.085514983	0.003415793	No Reduction	No Reduction
25493.12261	29.9839693	381.9344325	351.3796779	2028	014000	Construction	C.1 Well Drilling	0.023115738	0.000923434	No Reduction	No Reduction
31257.27618	36.76342545	468.2605067	430.7996662	2028	015000	Construction	C.1 Well Drilling	0.004623717	0.000184726	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2029	001000	Construction	C.1 Well Drilling	0.369839442	0.025312975	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2029	002000	Construction	C.1 Well Drilling	1.798071251	0.124440041	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2029	003000	Construction	C.1 Well Drilling	1.283790753	0.089461116	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2029	004000	Construction	C.1 Well Drilling	0.247033762	0.017295292	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2029	005000	Construction	C.1 Well Drilling	0.410953643	0.028943465	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2029	006000	Construction	C.1 Well Drilling	0.205196083	0.008283509	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2029	007000	Construction	C.1 Well Drilling	0.126365701	0.005103769	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2029	008000	Construction	C.1 Well Drilling	0.056454115	0.002281263	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2029	009000	Construction	C.1 Well Drilling	0.085851778	0.003470366	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2029	010000	Construction	C.1 Well Drilling	0.074594786	0.003016436	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2029	011000	Construction	C.1 Well Drilling	0.071560888	0.002900405	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2029	012000	Construction	C.1 Well Drilling	0.094669992	0.003837769	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2029	013000	Construction	C.1 Well Drilling	0.085450667	0.003464529	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2029	014000	Construction	C.1 Well Drilling	0.02309852	0.000936622	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2029	015000	Construction	C.1 Well Drilling	0.004620299	0.000187366	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2030	001000	Construction	C.1 Well Drilling	0.369292072	0.025275512	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2030	002000	Construction	C.1 Well Drilling	1.798755555	0.1244874	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2030	003000	Construction	C.1 Well Drilling	1.28300347	0.089406254	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2030	004000	Construction	C.1 Well Drilling	0.247779265	0.017347486	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2030	005000	Construction	C.1 Well Drilling	0.411454465	0.028978738	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2030	006000	Construction	C.1 Well Drilling	0.204892388	0.008271249	No Reduction	No Reduction

0.070959088	0.065282299	1604	2027		1.61150074	0.10425077	No Reduction	No Reduction	0.05690919	0.0523564
0.050971435	0.046893676	1148	2027		0.82409058	0.05365307	No Reduction	No Reduction	0.0292576	0.02691697
0.009881434	0.009090911	222	2027		0.03078228	0.00201282	No Reduction	No Reduction	0.00109684	0.00100909
0.016477015	0.015158839	369	2027		0.08492121	0.00558366	No Reduction	No Reduction	0.00304001	0.00279681
0.005770227	0.005308604	91	2027		0.00937695	0.0003668	No Reduction	No Reduction	0.00026255	0.00024154
0.003556725	0.003272184	56	2027		0.00355332	0.00013906	No Reduction	No Reduction	9.9588E-05	9.1621E-05
0.001590439	0.001463203	25	2027		0.00070863	2.7744E-05	No Reduction	No Reduction	1.988E-05	1.829E-05
0.002420134	0.002226521	38	2027		0.00163792	6.4148E-05	No Reduction	No Reduction	4.5983E-05	4.2304E-05
0.002104226	0.001935886	33	2027		0.00123582	4.8416E-05	No Reduction	No Reduction	3.472E-05	3.1942E-05
0.002050362	0.001886331	31	2027		0.00111172	4.3606E-05	No Reduction	No Reduction	3.1781E-05	2.9238E-05
0.002713476	0.002496396	41	2027		0.00194509	7.6308E-05	No Reduction	No Reduction	5.5626E-05	5.1176E-05
0.002449896	0.002253902	37	2027		0.00158435	6.2164E-05	No Reduction	No Reduction	4.5323E-05	4.1697E-05
0.000662391	0.000609399	10	2027		0.00011575	4.542E-06	No Reduction	No Reduction	3.312E-06	3.047E-06
0.000132519	0.000121917	2	2027		4.6304E-06	1.8171E-07	No Reduction	No Reduction	1.3252E-07	1.2192E-07
0.013254197	0.01219385	329	2028		0.0629827	0.00427362	No Reduction	No Reduction	0.00218032	0.00200589
0.065159468	0.059946654	1608	2028		1.49945404	0.10287897	No Reduction	No Reduction	0.05238821	0.04819711
0.046770639	0.043028947	1150	2028		0.7653294	0.05287203	No Reduction	No Reduction	0.02689312	0.02474164
0.009051328	0.008327213	222	2028		0.02848009	0.00197673	No Reduction	No Reduction	0.0010047	0.00092432
0.015092917	0.01388547	369	2028		0.07854213	0.00548395	No Reduction	No Reduction	0.00278464	0.00256187
0.005700538	0.00524449	91	2028		0.00935289	0.00037231	No Reduction	No Reduction	0.00025937	0.00023862
0.003514289	0.003233143	56	2028		0.00354436	0.00014116	No Reduction	No Reduction	9.84E-05	9.0528E-05
0.001571697	0.00144596	25	2028		0.00070687	2.8166E-05	No Reduction	No Reduction	1.9646E-05	1.8074E-05
0.002391852	0.002200501	38	2028		0.00163392	6.5125E-05	No Reduction	No Reduction	4.5445E-05	4.181E-05
0.00207986	0.001913469	33	2028		0.00123285	4.9156E-05	No Reduction	No Reduction	3.4318E-05	3.1572E-05
0.002032125	0.001869554	31	2028		0.00111005	4.4326E-05	No Reduction	No Reduction	3.1498E-05	2.8978E-05
0.002689487	0.002474325	41	2028		0.00194221	7.7569E-05	No Reduction	No Reduction	5.5134E-05	5.0724E-05
0.002428334	0.002234065	37	2028		0.00158203	6.3192E-05	No Reduction	No Reduction	4.4924E-05	4.133E-05
0.000656583	0.000604056	10	2028		0.00011558	4.6172E-06	No Reduction	No Reduction	3.2829E-06	3.0203E-06
0.000131361	0.000120852	2	2028		4.6237E-06	1.8473E-07	No Reduction	No Reduction	1.3136E-07	1.2085E-07
0.012766707	0.011745359	330	2029		0.06102351	0.00417664	No Reduction	No Reduction	0.00210651	0.00193798
0.062702104	0.057685882	1610	2029		1.44744736	0.10017423	No Reduction	No Reduction	0.05047519	0.04643713
0.045052081	0.041447876	1152	2029		0.73946347	0.0515296	No Reduction	No Reduction	0.02595	0.02387398
0.008706642	0.008010103	222	2029		0.02742075	0.00191978	No Reduction	No Reduction	0.00096644	0.00088912
0.014563985	0.013398853	370	2029		0.07602642	0.00535454	No Reduction	No Reduction	0.00269434	0.00247879
0.005656915	0.005204357	91	2029		0.00933642	0.0003769	No Reduction	No Reduction	0.00025739	0.0002368
0.003487835	0.003208805	56	2029		0.00353824	0.00014291	No Reduction	No Reduction	9.7659E-05	8.9847E-05
0.001560063	0.001435256	25	2029		0.00070568	2.8516E-05	No Reduction	No Reduction	1.9501E-05	1.7941E-05
0.002374348	0.002184398	38	2029		0.00163118	6.5937E-05	No Reduction	No Reduction	4.5113E-05	4.1504E-05
0.002064829	0.001899641	33	2029		0.00123081	4.9771E-05	No Reduction	No Reduction	3.407E-05	3.1344E-05
0.002022126	0.001860354	31	2029		0.00110919	4.4956E-05	No Reduction	No Reduction	3.1343E-05	2.8835E-05
0.002676375	0.002462263	41	2029		0.00194073	7.8674E-05	No Reduction	No Reduction	5.4866E-05	5.0476E-05
0.002416578	0.00222325	37	2029		0.00158084	6.4094E-05	No Reduction	No Reduction	4.4707E-05	4.113E-05
0.000653423	0.000601148	10	2029		0.00011549	4.6831E-06	No Reduction	No Reduction	3.2671E-06	3.0057E-06
0.000130731	0.000120273	2	2029		4.6203E-06	1.8737E-07	No Reduction	No Reduction	1.3073E-07	1.2027E-07
0.012747812	0.011727976	330		2030	0.06093319	0.00417046	No Reduction	No Reduction	0.00210339	0.00193512
0.062725967	0.057707835	1613		2030	1.45069635	0.10039909	No Reduction	No Reduction	0.05058849	0.04654137
0.045024452	0.041422458	1153		2030	0.7396515	0.05154271	No Reduction	No Reduction	0.0259566	0.02388005
0.008732917	0.008034276	223		2030	0.02762739	0.00193424	No Reduction	No Reduction	0.00097372	0.00089582
0.014581734	0.013415182	371		2030	0.0763248	0.00537556	No Reduction	No Reduction	0.00270491	0.00248852
0.005648542	0.005196654	91		2030	0.0093226	0.00037634	No Reduction	No Reduction	0.00025701	0.00023645

1.772660705	1604	0.00110515	7.707316557	2027
0.907001249	1148	0.000790071	5.509953582	2027
0.033891934	222	0.000152666	1.064695261	2027
0.093544886	369	0.000253509	1.76797299	2027
0.010006298	91	0.000109959	0.766856295	2027
0.003791963	56	6.77136E-05	0.472234771	2027
0.000756252	25	3.02501E-05	0.210963952	2027
0.001748046	38	4.60012E-05	0.32081248	2027
0.001318958	33	3.99684E-05	0.278739711	2027
0.001187103	31	3.82937E-05	0.26705998	2027
0.002077028	41	5.06592E-05	0.353297423	2027
0.001691842	37	4.57254E-05	0.318889268	2027
0.000123601	10	1.23601E-05	0.086199662	2027
4.94467E-06	2	2.47233E-06	0.017242057	2027
0.069436636	329	0.000211054	1.471887848	2028
1.65472122	1608	0.001029055	7.176632951	2028
0.845094547	1150	0.000734865	5.124947276	2028
0.031461518	222	0.000141719	0.98834515	2028
0.086810718	369	0.000235259	1.640699041	2028
0.009984578	91	0.000109721	0.765191698	2028
0.003783922	56	6.757E-05	0.471233447	2028
0.000754686	25	3.01874E-05	0.210527261	2028
0.001744487	38	4.59075E-05	0.320159211	2028
0.00131632	33	3.98885E-05	0.278182338	2028
0.001185875	31	3.8254E-05	0.266783585	2028
0.002074916	41	5.06077E-05	0.352938116	2028
0.001690144	37	4.56796E-05	0.318569216	2028
0.000123479	10	1.23479E-05	0.0861141	2028
4.9398E-06	2	2.4699E-06	0.017225094	2028
0.067306656	330	0.00020396	1.422413987	2029
1.598096784	1610	0.000992607	6.922439115	2029
0.816943075	1152	0.000709152	4.945625872	2029
0.030306962	222	0.000136518	0.952075475	2029
0.084075302	370	0.000227231	1.584705832	2029
0.009970711	91	0.000109568	0.764128998	2029
0.003778805	56	6.74787E-05	0.470596124	2029
0.000753693	25	3.01477E-05	0.210250203	2029
0.001742233	38	4.58482E-05	0.319745669	2029
0.001314655	33	3.9838E-05	0.277830391	2029
0.001185493	31	3.82417E-05	0.266697683	2029
0.002074275	41	5.05921E-05	0.352829082	2029
0.001689638	37	4.56659E-05	0.318473898	2029
0.000123443	10	1.23443E-05	0.086089026	2029
4.9384E-06	2	2.4692E-06	0.017220188	2029
0.06720704	330	0.000203658	1.420308787	2030
1.601683936	1613	0.000992984	6.925073632	2030
0.817150803	1153	0.000708717	4.942592973	2030
0.030535353	223	0.00013693	0.954948665	2030
0.084405271	371	0.000227507	1.586637086	2030
0.009955954	91	0.000109406	0.762998072	2030

	7000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2030	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2030	8000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2030	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2030	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2030	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2030	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2030	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2030	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2030	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2030	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	0.17%	0.12%	No Reduct	No Reduct	0.18%	0.18%	2031	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	0.65%	0.45%	No Reduct	No Reduct	0.67%	0.67%	2031	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	0.37%	0.26%	No Reduct	No Reduct	0.39%	0.39%	2031	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.06%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2031	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	0.08%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2031	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2031	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2031	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2031	8000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2031	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2031	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2031	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2031	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2031	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2031	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2031	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2031	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	0.17%	0.12%	No Reduct	No Reduct	0.18%	0.18%	2032	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	0.65%	0.44%	No Reduct	No Reduct	0.67%	0.67%	2032	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	0.37%	0.26%	No Reduct	No Reduct	0.39%	0.39%	2032	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.06%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2032	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	0.08%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2032	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2032	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2032	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2032	8000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2032	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2032	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2032	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2032	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2032	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2032	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2032	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2032	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	0.17%	0.12%	No Reduct	No Reduct	0.18%	0.18%	2033	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	0.65%	0.44%	No Reduct	No Reduct	0.67%	0.67%	2033	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	0.37%	0.26%	No Reduct	No Reduct	0.39%	0.39%	2033	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.06%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2033	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	0.08%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2033	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2033	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2033	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2033	8000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2033	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2033	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2033	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2033	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126

4747.390168	5.585171161	70.21595899	64.59868227	2030	007000	Construction	C.1 Well Drilling	0.126178677	0.005096215	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2030	008000	Construction	C.1 Well Drilling	0.056370561	0.002277887	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2030	009000	Construction	C.1 Well Drilling	0.085724716	0.00346523	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2030	010000	Construction	C.1 Well Drilling	0.074484384	0.003011972	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2030	011000	Construction	C.1 Well Drilling	0.071454977	0.002896112	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2030	012000	Construction	C.1 Well Drilling	0.094529878	0.003832089	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2030	013000	Construction	C.1 Well Drilling	0.085324198	0.003459402	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2030	014000	Construction	C.1 Well Drilling	0.023064334	0.000935236	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2030	015000	Construction	C.1 Well Drilling	0.004613461	0.000187089	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2031	001000	Construction	C.1 Well Drilling	0.368746321	0.025238159	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2031	002000	Construction	C.1 Well Drilling	1.799437836	0.124534619	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2031	003000	Construction	C.1 Well Drilling	1.283329621	0.089428982	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2031	004000	Construction	C.1 Well Drilling	0.247413089	0.01732185	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2031	005000	Construction	C.1 Well Drilling	0.410846404	0.028935913	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2031	006000	Construction	C.1 Well Drilling	0.204589592	0.008259026	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2031	007000	Construction	C.1 Well Drilling	0.125992206	0.005088684	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2031	008000	Construction	C.1 Well Drilling	0.056287255	0.002274521	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2031	009000	Construction	C.1 Well Drilling	0.085598029	0.003460109	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2031	010000	Construction	C.1 Well Drilling	0.074374308	0.003007521	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2031	011000	Construction	C.1 Well Drilling	0.073650971	0.002985117	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2031	012000	Construction	C.1 Well Drilling	0.094390179	0.003826426	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2031	013000	Construction	C.1 Well Drilling	0.085198103	0.003454289	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2031	014000	Construction	C.1 Well Drilling	0.023030248	0.000933854	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2031	015000	Construction	C.1 Well Drilling	0.004606643	0.000186812	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2032	001000	Construction	C.1 Well Drilling	0.370433708	0.025353649	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2032	002000	Construction	C.1 Well Drilling	1.797894363	0.124427799	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2032	003000	Construction	C.1 Well Drilling	1.28365481	0.089451643	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2032	004000	Construction	C.1 Well Drilling	0.248155832	0.017373851	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2032	005000	Construction	C.1 Well Drilling	0.410240138	0.028893213	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2032	006000	Construction	C.1 Well Drilling	0.204287689	0.008246838	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2032	007000	Construction	C.1 Well Drilling	0.125806286	0.005081175	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2032	008000	Construction	C.1 Well Drilling	0.056204195	0.002271164	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2032	009000	Construction	C.1 Well Drilling	0.085471716	0.003455003	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2032	010000	Construction	C.1 Well Drilling	0.074264558	0.003003083	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2032	011000	Construction	C.1 Well Drilling	0.073542288	0.002980712	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2032	012000	Construction	C.1 Well Drilling	0.094250892	0.003820779	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2032	013000	Construction	C.1 Well Drilling	0.08507238	0.003449192	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2032	014000	Construction	C.1 Well Drilling	0.022996264	0.000932476	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2032	015000	Construction	C.1 Well Drilling	0.004599845	0.000186537	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2033	001000	Construction	C.1 Well Drilling	0.369978741	0.025322509	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2033	002000	Construction	C.1 Well Drilling	1.79568619	0.124274977	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2033	003000	Construction	C.1 Well Drilling	1.284294437	0.089496216	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2033	004000	Construction	C.1 Well Drilling	0.247851047	0.017352512	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2033	005000	Construction	C.1 Well Drilling	0.410840692	0.02893551	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2033	006000	Construction	C.1 Well Drilling	0.204036783	0.00823671	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2033	007000	Construction	C.1 Well Drilling	0.125651771	0.005074934	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2033	008000	Construction	C.1 Well Drilling	0.058380571	0.00235911	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2033	009000	Construction	C.1 Well Drilling	0.08536674	0.00345076	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2033	010000	Construction	C.1 Well Drilling	0.074173346	0.002999394	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2033	011000	Construction	C.1 Well Drilling	0.073451963	0.002977051	No Reduction	No Reduction

0.003482673	0.003204056	56	2030	0.003533	0.00014269	No Reduction	No Reduction	9.7515E-05	8.9714E-05
0.001557754	0.001433132	25	2030	0.00070463	2.8474E-05	No Reduction	No Reduction	1.9472E-05	1.7914E-05
0.002370834	0.002181165	38	2030	0.00162877	6.5839E-05	No Reduction	No Reduction	4.5046E-05	4.1442E-05
0.002061773	0.00189683	33	2030	0.00122899	4.9698E-05	No Reduction	No Reduction	3.4019E-05	3.1298E-05
0.002019134	0.001857601	31	2030	0.00110755	4.489E-05	No Reduction	No Reduction	3.1297E-05	2.8793E-05
0.002672414	0.002458619	41	2030	0.00193786	7.8558E-05	No Reduction	No Reduction	5.4784E-05	5.0402E-05
0.002413002	0.00221996	37	2030	0.0015785	6.3999E-05	No Reduction	No Reduction	4.4641E-05	4.1069E-05
0.000652456	0.000600259	10	2030	0.00011532	4.6762E-06	No Reduction	No Reduction	3.2623E-06	3.0013E-06
0.000130538	0.000120095	2	2030	4.6135E-06	1.8709E-07	No Reduction	No Reduction	1.3054E-07	1.2009E-07
0.012728973	0.011710644	330	2031	0.06084314	0.0041643	No Reduction	No Reduction	0.00210028	0.00193226
0.06274976	0.057729724	1616	2031	1.45394577	0.10062397	No Reduction	No Reduction	0.05070181	0.04664562
0.045035898	0.041432988	1155	2031	0.74112286	0.05164524	No Reduction	No Reduction	0.02600823	0.02392755
0.008720011	0.008022403	223	2031	0.02758656	0.00193139	No Reduction	No Reduction	0.00097228	0.0008945
0.014560184	0.013395357	371	2031	0.07621201	0.00536761	No Reduction	No Reduction	0.00270091	0.00248484
0.005640195	0.005188974	91	2031	0.00930883	0.00037579	No Reduction	No Reduction	0.00025663	0.0002361
0.003477526	0.003199321	56	2031	0.00352778	0.00014248	No Reduction	No Reduction	9.7371E-05	8.9581E-05
0.001555452	0.001431014	25	2031	0.00070359	2.8432E-05	No Reduction	No Reduction	1.9443E-05	1.7888E-05
0.00236733	0.002177942	38	2031	0.00162636	6.5742E-05	No Reduction	No Reduction	4.4979E-05	4.1381E-05
0.002058727	0.001894027	33	2031	0.00122718	4.9624E-05	No Reduction	No Reduction	3.3969E-05	3.1251E-05
0.002081187	0.00191469	32	2031	0.00117842	4.7762E-05	No Reduction	No Reduction	3.3299E-05	3.0635E-05
0.002668465	0.002454985	41	2031	0.001935	7.8442E-05	No Reduction	No Reduction	5.4704E-05	5.0327E-05
0.002409436	0.002216679	37	2031	0.00157616	6.3904E-05	No Reduction	No Reduction	4.4575E-05	4.1009E-05
0.000651491	0.000599372	10	2031	0.00011515	4.6693E-06	No Reduction	No Reduction	3.2575E-06	2.9969E-06
0.000130345	0.000119917	2	2031	4.6066E-06	1.8681E-07	No Reduction	No Reduction	1.3034E-07	1.1992E-07
0.012787221	0.011764232	332	2032	0.061492	0.00420871	No Reduction	No Reduction	0.00212268	0.00195286
0.062695936	0.057680207	1617	2032	1.45359759	0.10059988	No Reduction	No Reduction	0.05068966	0.04663445
0.04504731	0.041443487	1157	2032	0.74259431	0.05174778	No Reduction	No Reduction	0.02605987	0.02397506
0.008746189	0.008046486	224	2032	0.02779345	0.00194587	No Reduction	No Reduction	0.00097957	0.00090121
0.014538699	0.01337559	371	2032	0.07609955	0.00535969	No Reduction	No Reduction	0.00269693	0.00248117
0.005631872	0.005181317	91	2032	0.00929509	0.00037523	No Reduction	No Reduction	0.00025625	0.00023575
0.003472395	0.0031946	56	2032	0.00352258	0.00014227	No Reduction	No Reduction	9.7227E-05	8.9449E-05
0.001553157	0.001428903	25	2032	0.00070255	2.839E-05	No Reduction	No Reduction	1.9414E-05	1.7861E-05
0.002363837	0.002174728	38	2032	0.00162396	6.5645E-05	No Reduction	No Reduction	4.4913E-05	4.132E-05
0.002055689	0.001891232	33	2032	0.00122537	4.9551E-05	No Reduction	No Reduction	3.3919E-05	3.1205E-05
0.002078116	0.001911865	32	2032	0.00117668	4.7691E-05	No Reduction	No Reduction	3.325E-05	3.059E-05
0.002664527	0.002451363	41	2032	0.00193214	7.8326E-05	No Reduction	No Reduction	5.4623E-05	5.0253E-05
0.00240588	0.002213408	37	2032	0.00157384	6.381E-05	No Reduction	No Reduction	4.4509E-05	4.0948E-05
0.00065053	0.000598487	10	2032	0.00011498	4.6624E-06	No Reduction	No Reduction	3.2527E-06	2.9924E-06
0.000130152	0.00011974	2	2032	4.5998E-06	1.8654E-07	No Reduction	No Reduction	1.3015E-07	1.1974E-07
0.012771516	0.011749783	332	2033	0.06141647	0.00420354	No Reduction	No Reduction	0.00212007	0.00195046
0.062618933	0.057609364	1617	2033	1.45181228	0.10047632	No Reduction	No Reduction	0.05062741	0.04657717
0.045069756	0.041464137	1159	2033	0.74424863	0.05186306	No Reduction	No Reduction	0.02611792	0.02402847
0.008735447	0.008036603	224	2033	0.02775932	0.00194348	No Reduction	No Reduction	0.00097837	0.0009001
0.014559982	0.01339517	372	2033	0.07641637	0.005382	No Reduction	No Reduction	0.00270816	0.0024915
0.005624955	0.005174953	91	2033	0.00928367	0.00037477	No Reduction	No Reduction	0.00025594	0.00023546
0.00346813	0.003190676	56	2033	0.00351825	0.0001421	No Reduction	No Reduction	9.7108E-05	8.9339E-05
0.001613299	0.001484234	26	2033	0.00075895	3.0668E-05	No Reduction	No Reduction	2.0973E-05	1.9295E-05
0.002360933	0.002172057	38	2033	0.00162197	6.5564E-05	No Reduction	No Reduction	4.4858E-05	4.1269E-05
0.002053164	0.001888909	33	2033	0.00122386	4.949E-05	No Reduction	No Reduction	3.3877E-05	3.1167E-05
0.002075563	0.001909516	32	2033	0.00117523	4.7633E-05	No Reduction	No Reduction	3.3209E-05	3.0552E-05

0.003773212	56	6.73788E-05	0.469899632	2030
0.000752578	25	3.01031E-05	0.209939028	2030
0.001739655	38	4.57804E-05	0.319272439	2030
0.001312709	33	3.97791E-05	0.277419197	2030
0.001183738	31	3.81851E-05	0.266302965	2030
0.002071205	41	5.05172E-05	0.352306888	2030
0.001687137	37	4.55983E-05	0.318002551	2030
0.00012326	10	1.2326E-05	0.085961612	2030
4.93109E-06	2	2.46554E-06	0.017194702	2030
0.06710772	330	0.000203357	1.418209808	2031
1.60527155	1616	0.000993361	6.927700363	2031
0.818776325	1155	0.000708897	4.943849426	2031
0.030490227	223	0.000136727	0.953537411	2031
0.084280534	371	0.000227171	1.584292302	2031
0.009941241	91	0.000109244	0.761870489	2031
0.003767636	56	6.72792E-05	0.469205199	2031
0.000751465	25	3.00586E-05	0.209628774	2031
0.001737084	38	4.57127E-05	0.318800608	2031
0.001310769	33	3.97203E-05	0.277009218	2031
0.001259476	32	3.93586E-05	0.274487137	2031
0.002068144	41	5.04425E-05	0.351786237	2031
0.001684644	37	4.55309E-05	0.317532596	2031
0.000123078	10	1.23078E-05	0.085834575	2031
4.9238E-06	2	2.4619E-06	0.017169291	2031
0.06782338	332	0.000204287	1.424699552	2032
1.604887132	1617	0.000992509	6.921758107	2032
0.820401952	1157	0.000709077	4.945102172	2032
0.030718898	224	0.000137138	0.956399965	2032
0.084156165	371	0.000226836	1.581954438	2032
0.009926571	91	0.000109083	0.760746233	2032
0.003762076	56	6.71799E-05	0.468512816	2032
0.000750356	25	3.00143E-05	0.209319435	2032
0.001734521	38	4.56453E-05	0.318330169	2032
0.001308835	33	3.96617E-05	0.276600449	2032
0.001257618	32	3.93006E-05	0.274082089	2032
0.002065092	41	5.03681E-05	0.351267123	2032
0.001682158	37	4.54637E-05	0.317064028	2032
0.000122896	10	1.22896E-05	0.085707913	2032
4.91653E-06	2	2.45827E-06	0.017143955	2032
0.067740079	332	0.000204036	1.422949736	2033
1.602916011	1617	0.00099129	6.913256808	2033
0.822229607	1159	0.00070943	4.947566247	2033
0.030681169	224	0.00013697	0.955225315	2033
0.08450653	372	0.000227168	1.584270274	2033
0.009914379	91	0.000108949	0.759811885	2033
0.003757455	56	6.70974E-05	0.467937389	2033
0.000810589	26	3.11765E-05	0.217424843	2033
0.00173239	38	4.55892E-05	0.317939196	2033
0.001307227	33	3.9613E-05	0.276260728	2033
0.001256073	32	3.92523E-05	0.273745462	2033

	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2033	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2033	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2033	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2033	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	0.17%	0.12%	No Reduct	No Reduct	0.18%	0.18%	2034	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	0.65%	0.44%	No Reduct	No Reduct	0.67%	0.67%	2034	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	0.38%	0.26%	No Reduct	No Reduct	0.39%	0.39%	2034	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.06%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2034	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	0.08%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2034	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2034	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2034	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2034	8000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2034	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2034	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2034	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2034	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2034	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2034	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2034	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2034	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	0.17%	0.12%	No Reduct	No Reduct	0.18%	0.18%	2035	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	0.65%	0.44%	No Reduct	No Reduct	0.67%	0.67%	2035	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	0.38%	0.26%	No Reduct	No Reduct	0.39%	0.39%	2035	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	0.06%	0.04%	No Reduct	No Reduct	0.06%	0.06%	2035	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	0.08%	0.05%	No Reduct	No Reduct	0.08%	0.08%	2035	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2035	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2035	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2035	8000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2035	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2035	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2035	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2035	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2035	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2035	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2035	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2035	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176

16846.89225	19.81478506	251.5875537	231.4605494	2033	012000	Construction	C.1 Well Drilling	0.096431112	0.003909162	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2033	013000	Construction	C.1 Well Drilling	0.084967895	0.003444956	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2033	014000	Construction	C.1 Well Drilling	0.02296802	0.000931331	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2033	015000	Construction	C.1 Well Drilling	0.004594196	0.000186308	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2034	001000	Construction	C.1 Well Drilling	0.370547008	0.025361403	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2034	002000	Construction	C.1 Well Drilling	1.796370143	0.124322312	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2034	003000	Construction	C.1 Well Drilling	1.284617329	0.089518716	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2034	004000	Construction	C.1 Well Drilling	0.247486292	0.017326975	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2034	005000	Construction	C.1 Well Drilling	0.41023607	0.028892927	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2034	006000	Construction	C.1 Well Drilling	0.203736508	0.008224588	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2034	007000	Construction	C.1 Well Drilling	0.125466853	0.005067466	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2034	008000	Construction	C.1 Well Drilling	0.058294655	0.002355638	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2034	009000	Construction	C.1 Well Drilling	0.085241108	0.003445681	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2034	010000	Construction	C.1 Well Drilling	0.074064187	0.00299498	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2034	011000	Construction	C.1 Well Drilling	0.073343866	0.00297267	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2034	012000	Construction	C.1 Well Drilling	0.096289197	0.003903409	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2034	013000	Construction	C.1 Well Drilling	0.08484285	0.003439886	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2034	014000	Construction	C.1 Well Drilling	0.022934218	0.00092996	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2034	015000	Construction	C.1 Well Drilling	0.004587434	0.000186034	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2035	001000	Construction	C.1 Well Drilling	0.370002487	0.025324135	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2035	002000	Construction	C.1 Well Drilling	1.797052086	0.124369508	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2035	003000	Construction	C.1 Well Drilling	1.284939272	0.089541151	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2035	004000	Construction	C.1 Well Drilling	0.247122609	0.017301513	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2035	005000	Construction	C.1 Well Drilling	0.410734389	0.028928023	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2035	006000	Construction	C.1 Well Drilling	0.203437115	0.008212502	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2035	007000	Construction	C.1 Well Drilling	0.125282478	0.005060019	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2035	008000	Construction	C.1 Well Drilling	0.05820899	0.002352176	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2035	009000	Construction	C.1 Well Drilling	0.085115846	0.003440618	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2035	010000	Construction	C.1 Well Drilling	0.07395535	0.002990579	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2035	011000	Construction	C.1 Well Drilling	0.073236087	0.002968302	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2035	012000	Construction	C.1 Well Drilling	0.096147699	0.003897673	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2035	013000	Construction	C.1 Well Drilling	0.084718173	0.003434831	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2035	014000	Construction	C.1 Well Drilling	0.022900516	0.000928593	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2035	015000	Construction	C.1 Well Drilling	0.004580693	0.00018576	No Reduction	No Reduction

0.002726163	0.002508068	42	2033	0.00202505	8.2092E-05	No Reduction	No Reduction	5.7249E-05	5.2669E-05
0.002402925	0.002210689	37	2033	0.00157191	6.3732E-05	No Reduction	No Reduction	4.4454E-05	4.0898E-05
0.000649731	0.000597752	10	2033	0.00011484	4.6567E-06	No Reduction	No Reduction	3.2487E-06	2.9888E-06
0.000129993	0.000119593	2	2033	4.5942E-06	1.8631E-07	No Reduction	No Reduction	1.2999E-07	1.1959E-07
0.012791132	0.01176783	333	2034	0.06169608	0.00422267	No Reduction	No Reduction	0.00212972	0.00195934
0.062642784	0.057631306	1620	2034	1.45505982	0.10070107	No Reduction	No Reduction	0.05074065	0.04668136
0.045081088	0.041474562	1161	2034	0.74572036	0.05196561	No Reduction	No Reduction	0.02616957	0.02407598
0.008722592	0.008024776	224	2034	0.02771846	0.00194062	No Reduction	No Reduction	0.00097693	0.00089877
0.014538554	0.013375457	372	2034	0.07630391	0.00537408	No Reduction	No Reduction	0.00270417	0.00248784
0.005616677	0.005167338	91	2034	0.00927001	0.00037422	No Reduction	No Reduction	0.00025556	0.00023511
0.003463026	0.003185981	56	2034	0.00351307	0.00014189	No Reduction	No Reduction	9.6965E-05	8.9207E-05
0.001610925	0.001482049	26	2034	0.00075783	3.0623E-05	No Reduction	No Reduction	2.0942E-05	1.9267E-05
0.002357459	0.00216886	38	2034	0.00161958	6.5468E-05	No Reduction	No Reduction	4.4792E-05	4.1208E-05
0.002050142	0.001886129	33	2034	0.00122206	4.9417E-05	No Reduction	No Reduction	3.3827E-05	3.1121E-05
0.002072509	0.001906706	32	2034	0.0011735	4.7563E-05	No Reduction	No Reduction	3.316E-05	3.0507E-05
0.002722151	0.002504377	42	2034	0.00202207	8.1972E-05	No Reduction	No Reduction	5.7165E-05	5.2592E-05
0.002399389	0.002207436	37	2034	0.00156959	6.3638E-05	No Reduction	No Reduction	4.4389E-05	4.0838E-05
0.000648775	0.000596872	10	2034	0.00011467	4.6498E-06	No Reduction	No Reduction	3.2439E-06	2.9844E-06
0.000129801	0.000119417	2	2034	4.5874E-06	1.8603E-07	No Reduction	No Reduction	1.298E-07	1.1942E-07
0.012772335	0.011750537	333	2035	0.06160541	0.00421647	No Reduction	No Reduction	0.00212659	0.00195646
0.062666564	0.057653185	1623	2035	1.45830777	0.10092586	No Reduction	No Reduction	0.05085392	0.04678556
0.045092386	0.041484956	1163	2035	0.74719219	0.05206818	No Reduction	No Reduction	0.02622122	0.0241235
0.008709774	0.008012984	224	2035	0.02767773	0.00193777	No Reduction	No Reduction	0.00097549	0.00089745
0.014556215	0.013391705	373	2035	0.07660196	0.00539508	No Reduction	No Reduction	0.00271473	0.00249755
0.005608423	0.005159744	91	2035	0.00925639	0.00037367	No Reduction	No Reduction	0.00025518	0.00023477
0.003457937	0.003181299	56	2035	0.00350791	0.00014168	No Reduction	No Reduction	9.6822E-05	8.9076E-05
0.001608557	0.001479871	26	2035	0.00075672	3.0578E-05	No Reduction	No Reduction	2.0911E-05	1.9238E-05
0.002353995	0.002165673	38	2035	0.0016172	6.5372E-05	No Reduction	No Reduction	4.4726E-05	4.1148E-05
0.002047129	0.001883357	33	2035	0.00122026	4.9345E-05	No Reduction	No Reduction	3.3778E-05	3.1075E-05
0.002069463	0.001903904	32	2035	0.00117178	4.7493E-05	No Reduction	No Reduction	3.3111E-05	3.0462E-05
0.002718151	0.002500697	42	2035	0.0020191	8.1851E-05	No Reduction	No Reduction	5.7081E-05	5.2515E-05
0.002395863	0.002204192	37	2035	0.00156729	6.3544E-05	No Reduction	No Reduction	4.4323E-05	4.0778E-05
0.000647822	0.000595995	10	2035	0.0001145	4.643E-06	No Reduction	No Reduction	3.2391E-06	2.98E-06
0.000129611	0.000119242	2	2035	4.5807E-06	1.8576E-07	No Reduction	No Reduction	1.2961E-07	1.1924E-07

0.002164395	42	5.15332E-05	0.359392665	2033
0.001680092	37	4.54079E-05	0.316674611	2033
0.000122745	10	1.22745E-05	0.085602647	2033
4.9105E-06	2	2.45525E-06	0.017122899	2033
0.068048474	333	0.00020435	1.425135309	2034
1.606501543	1620	0.000991668	6.915889976	2034
0.823855546	1161	0.000709609	4.948810142	2034
0.030636016	224	0.000136768	0.953819538	2034
0.084382164	372	0.000226834	1.58193875	2034
0.009899789	91	0.000108789	0.758693692	2034
0.003751926	56	6.69987E-05	0.467248739	2034
0.000809396	26	3.11306E-05	0.217104865	2034
0.001729841	38	4.55221E-05	0.317471295	2034
0.001305304	33	3.95547E-05	0.275854164	2034
0.001254225	32	3.91945E-05	0.273342599	2034
0.00216121	42	5.14574E-05	0.358863758	2034
0.001677619	37	4.53411E-05	0.31620857	2034
0.000122565	10	1.22565E-05	0.085476668	2034
4.90327E-06	2	2.45163E-06	0.0170977	2034
0.067948476	333	0.000204049	1.423041062	2035
1.61008754	1623	0.000992044	6.918515406	2035
0.825481588	1163	0.000709786	4.950050382	2035
0.030590996	224	0.000136567	0.952417893	2035
0.084711774	373	0.000227109	1.583860353	2035
0.009885241	91	0.000108629	0.757578786	2035
0.003746412	56	6.69002E-05	0.466562113	2035
0.000808206	26	3.10849E-05	0.216785828	2035
0.001727299	38	4.54552E-05	0.317004768	2035
0.001303385	33	3.94965E-05	0.275448794	2035
0.001252382	32	3.91369E-05	0.27294092	2035
0.002158034	42	5.13818E-05	0.358336405	2035
0.001675154	37	4.52744E-05	0.315743899	2035
0.000122385	10	1.22385E-05	0.085351059	2035
4.89606E-06	2	2.44803E-06	0.017072575	2035

Engines 251<-hp<750 Percentages by Well Depth and Pollutant

Well Depth	PMTON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
1,000	Emissions for Engines 251<hp<750	0.282599083	0.014309652	0.249616709	0.000293322	0.009081979	0.008355421
	% of total	70.42%	58.66%	76.75%	76.55%	50.38%	50.38%
2,000	Emissions for Engines 251<hp<750	0.376798778	0.019079537	0.332822278	0.000391097	0.012109307	0.011140562
	% of total	71.65%	60.06%	77.79%	77.59%	51.83%	51.83%
3,000	Emissions for Engines 251<hp<750	0.470998472	0.023849422	0.416027849	0.00048887	0.015136632	0.013925701
	% of total	72.40%	60.94%	78.42%	78.23%	52.74%	52.74%
4,000	Emissions for Engines 251<hp<750	0.565198167	0.028619305	0.499233418	0.000586645	0.018163958	0.016710842
	% of total	72.92%	61.54%	78.85%	78.67%	53.36%	53.36%
5,000	Emissions for Engines 251<hp<750	0.753597556	0.038159073	0.665644556	0.000782193	0.02421861	0.022281122
	% of total	73.57%	62.30%	79.40%	79.22%	54.16%	54.16%
6,000	Emissions for Engines 251<hp<750	0.153998308	0.008497863	0.147911806	0.00017381	0.005814212	0.005349075
	% of total	6.01%	6.38%	7.47%	7.46%	6.32%	6.32%
7,000	Emissions for Engines 251<hp<750	0.18479797	0.010197436	0.177494167	0.000208572	0.006977054	0.00641889
	% of total	6.02%	6.40%	7.48%	7.47%	6.34%	6.34%
8,000	Emissions for Engines 251<hp<750	0.230997462	0.012746795	0.221867708	0.000260715	0.008721317	0.008023612
	% of total	6.03%	6.42%	7.49%	7.48%	6.37%	6.37%
9,000	Emissions for Engines 251<hp<750	0.277196954	0.015296154	0.26624125	0.000312858	0.010465581	0.009628334
	% of total	6.04%	6.43%	7.50%	7.49%	6.38%	6.38%
10,000	Emissions for Engines 251<hp<750	0.354196108	0.019545085	0.340197153	0.000399763	0.013372686	0.012302872
	% of total	6.05%	6.44%	7.50%	7.50%	6.40%	6.40%
11,000	Emissions for Engines 251<hp<750	0.431195262	0.023794017	0.414153056	0.000486667	0.016279792	0.014977409
	% of total	4.96%	5.37%	6.14%	6.14%	5.40%	5.40%
12,000	Emissions for Engines 251<hp<750	0.538994078	0.029742521	0.517691319	0.000608334	0.02034974	0.018721761
	% of total	4.96%	5.38%	6.15%	6.14%	5.41%	5.41%
13,000	Emissions for Engines 251<hp<750	0.662192725	0.036540811	0.636020764	0.000747382	0.02500111	0.023001021
	% of total	4.96%	5.38%	6.15%	6.14%	5.42%	5.42%
14,000	Emissions for Engines 251<hp<750	0.816191033	0.045038674	0.783932569	0.000921192	0.030815321	0.028350095
	% of total	4.96%	5.39%	6.15%	6.14%	5.42%	5.42%
15,000	Emissions for Engines 251<hp<750	1.000989002	0.05523611	0.961426736	0.001129764	0.037792375	0.034768985
	% of total	4.96%	5.39%	6.15%	6.15%	5.43%	5.43%

Drilled Well Percentages by Year Associated with Each Well Depth

2012	2015	2016	2017	2018	2019
305	323	323	323	325	325
8.99%	8.14%	8.14%	8.12%	8.16%	8.15%
1,414	1,575	1,577	1,581	1,582	1,586
41.69%	39.71%	39.72%	39.76%	39.73%	39.77%
930	1,128	1,130	1,131	1,133	1,134
27.42%	28.44%	28.46%	28.45%	28.45%	28.44%
174	218	218	219	219	219
5.13%	5.50%	5.49%	5.51%	5.50%	5.49%
300	363	363	363	364	365
8.84%	9.15%	9.14%	9.13%	9.14%	9.15%
69	89	89	89	89	89
2.03%	2.24%	2.24%	2.24%	2.24%	2.23%
44	55	55	55	55	55
1.30%	1.39%	1.39%	1.38%	1.38%	1.38%
23	25	25	25	25	25
0.68%	0.63%	0.63%	0.63%	0.63%	0.63%
33	37	37	37	37	37
0.97%	0.93%	0.93%	0.93%	0.93%	0.93%
21	33	33	33	33	33
0.62%	0.83%	0.83%	0.83%	0.83%	0.83%
25	31	31	31	31	31
0.74%	0.78%	0.78%	0.78%	0.78%	0.78%
27	41	41	41	41	41
0.80%	1.03%	1.03%	1.03%	1.03%	1.03%
20	36	36	36	36	36
0.59%	0.91%	0.91%	0.91%	0.90%	0.90%
6	10	10	10	10	10
0.18%	0.25%	0.25%	0.25%	0.25%	0.25%
1	2	2	2	2	2
0.03%	0.05%	0.05%	0.05%	0.05%	0.05%
3392	3966	3970	3976	3982	3988
100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Total Wells:

2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
326	326	326	327	327	328	328	329	329	330	330	330	332	332	333	333
8.16%	8.15%	8.14%	8.15%	8.14%	8.15%	8.14%	8.15%	8.14%	8.15%	8.14%	8.13%	8.17%	8.16%	8.17%	8.16%
1,588	1,590	1,595	1,598	1,599	1,601	1,603	1,604	1,608	1,610	1,613	1,616	1,617	1,617	1620	1623
39.76%	39.75%	39.82%	39.83%	39.80%	39.79%	39.78%	39.74%	39.78%	39.77%	39.79%	39.80%	39.77%	39.72%	39.74%	39.75%
1,136	1,139	1,140	1,141	1,142	1,144	1,146	1,148	1,150	1,152	1,153	1,155	1,157	1,159	1161	1163
28.44%	28.48%	28.46%	28.44%	28.42%	28.43%	28.44%	28.44%	28.45%	28.46%	28.44%	28.45%	28.46%	28.47%	28.48%	28.48%
220	220	220	221	221	221	222	222	222	222	223	223	224	224	224	224
5.51%	5.50%	5.49%	5.51%	5.50%	5.49%	5.51%	5.50%	5.49%	5.48%	5.50%	5.49%	5.51%	5.50%	5.49%	5.49%
365	366	366	366	368	368	368	369	369	370	371	371	371	372	372	373
9.14%	9.15%	9.14%	9.12%	9.16%	9.15%	9.13%	9.14%	9.13%	9.14%	9.15%	9.14%	9.12%	9.14%	9.12%	9.14%
89	89	89	89	91	91	91	91	91	91	91	91	91	91	91	91
2.23%	2.23%	2.22%	2.22%	2.26%	2.26%	2.26%	2.25%	2.25%	2.25%	2.24%	2.24%	2.24%	2.24%	2.23%	2.23%
55	55	55	55	55	56	56	56	56	56	56	56	56	56	56	56
1.38%	1.38%	1.37%	1.37%	1.37%	1.39%	1.39%	1.39%	1.39%	1.38%	1.38%	1.38%	1.38%	1.38%	1.37%	1.37%
25	25	25	25	25	25	25	25	25	25	25	25	25	26	26	26
0.63%	0.63%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.61%	0.64%	0.64%	0.64%
37	37	37	37	37	37	37	38	38	38	38	38	38	38	38	38
0.93%	0.93%	0.92%	0.92%	0.92%	0.92%	0.92%	0.94%	0.94%	0.94%	0.94%	0.94%	0.93%	0.93%	0.93%	0.93%
33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
0.83%	0.83%	0.82%	0.82%	0.82%	0.82%	0.82%	0.82%	0.82%	0.82%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%
31	31	31	31	31	31	31	31	31	31	31	32	32	32	32	32
0.78%	0.78%	0.77%	0.77%	0.77%	0.77%	0.77%	0.77%	0.77%	0.77%	0.76%	0.79%	0.79%	0.79%	0.78%	0.78%
41	41	41	41	41	41	41	41	41	41	41	41	41	42	42	42
1.03%	1.03%	1.02%	1.02%	1.02%	1.02%	1.02%	1.02%	1.01%	1.01%	1.01%	1.01%	1.01%	1.03%	1.03%	1.03%
36	36	36	36	36	36	37	37	37	37	37	37	37	37	37	37
0.90%	0.90%	0.90%	0.90%	0.90%	0.89%	0.92%	0.92%	0.92%	0.91%	0.91%	0.91%	0.91%	0.91%	0.91%	0.91%
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.24%
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%
3994	4000	4006	4012	4018	4024	4030	4036	4042	4048	4054	4060	4066	4071	4077	4083
100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

% Reduction for Tier 4i NOXGBHP	% Reduction for Tier 4f NOXGBHP	% Reduction for Tier 4i ROGGBHP	% Reduction for Tier 4f ROGGBHP	% Reduction for Tier 4i PM10GBHP	% Reduction for Tier 4f PM10GBHP
0.693575	0.940757817	0.425103519	0.425103519	0.934185908	0.934185908

Engines 251-<hp<750 Percentages by Well Depth and Pollutant

Well Depth		NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
1000	% of total	0.704223	0.586553	0.767469	0.76545	0.503839	0.503839
2000	% of total	0.716485	0.600623	0.777866	0.775923	0.518311	0.518311
3000	% of total	0.724048	0.609394	0.784241	0.782342	0.5274	0.5274
4000	% of total	0.72918	0.615385	0.788549	0.786682	0.533639	0.533639
5000	% of total	0.735698	0.623041	0.794001	0.792176	0.541648	0.541648
6000	% of total	0.060115	0.063802	0.074666	0.074577	0.0632	0.0632
7000	% of total	0.060222	0.063985	0.074775	0.074688	0.063432	0.063432
8000	% of total	0.06033	0.06417	0.074885	0.074799	0.063665	0.063665
9000	% of total	0.060403	0.064293	0.074959	0.074873	0.063821	0.063821
10000	% of total	0.060481	0.064427	0.075038	0.074953	0.063992	0.063992
11000	% of total	0.049556	0.05374	0.061427	0.06137	0.054045	0.054045
12000	% of total	0.049587	0.053796	0.061458	0.061402	0.054117	0.054117
13000	% of total	0.049611	0.053837	0.061482	0.061426	0.054171	0.054171
14000	% of total	0.04963	0.053872	0.061501	0.061446	0.054216	0.054216
15000	% of total	0.049645	0.053899	0.061517	0.061461	0.054251	0.054251

Drilled Well Percentages by Year Associated with Each Well Depth

	2012	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
1000	0.089917	0.081442	0.08136	0.081237	0.081617	0.081494	0.081622	0.0815	0.081378	0.081505	0.081384
2000	0.416863	0.397126	0.397229	0.397636	0.397288	0.397693	0.397596	0.3975	0.398153	0.398305	0.397959
3000	0.274175	0.284418	0.284635	0.284457	0.28453	0.284353	0.284427	0.28475	0.284573	0.284397	0.284221
4000	0.051297	0.054967	0.054912	0.05508	0.054997	0.054915	0.055083	0.055	0.054918	0.055085	0.055002
5000	0.088443	0.091528	0.091436	0.091298	0.091411	0.091525	0.091387	0.0915	0.091363	0.091226	0.091588
6000	0.020342	0.022441	0.022418	0.022384	0.022351	0.022317	0.022283	0.02225	0.022217	0.022183	0.022648
7000	0.012972	0.013868	0.013854	0.013833	0.013812	0.013791	0.013771	0.01375	0.013729	0.013709	0.013688
8000	0.006781	0.006304	0.006297	0.006288	0.006278	0.006269	0.006259	0.00625	0.006241	0.006231	0.006222
9000	0.009729	0.009329	0.00932	0.009306	0.009292	0.009278	0.009264	0.00925	0.009236	0.009222	0.009209
10000	0.006191	0.008321	0.008312	0.0083	0.008287	0.008275	0.008262	0.00825	0.008238	0.008225	0.008213
11000	0.00737	0.007816	0.007809	0.007797	0.007785	0.007773	0.007762	0.00775	0.007738	0.007727	0.007715
12000	0.00796	0.010338	0.010327	0.010312	0.010296	0.010281	0.010265	0.01025	0.010235	0.010219	0.010204
13000	0.005896	0.009077	0.009068	0.009054	0.009041	0.009027	0.009014	0.009	0.008987	0.008973	0.00896
14000	0.001769	0.002521	0.002519	0.002515	0.002511	0.002508	0.002504	0.0025	0.002496	0.002493	0.002489
15000	0.000295	0.000504	0.000504	0.000503	0.000502	0.000502	0.000501	0.0005	0.000499	0.000499	0.000498

Combined Percentages for Engines 251-<hp<750 and Drilled Wells

	2012						2015						2016						
	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
1000	0.063322	0.052741	0.069009	0.068827	0.045304	0.045304	0.057354	0.04777	0.062504	0.06234	0.041034	0.041034	0.057296	0.047722	0.062441	0.062277	0.040992	0.040992	0.057209
2000	0.298676	0.250378	0.324264	0.323454	0.216065	0.216065	0.284534	0.238523	0.308911	0.308139	0.205834	0.205834	0.284609	0.238585	0.308991	0.308219	0.205888	0.205888	0.2849
3000	0.198516	0.16708	0.215019	0.214498	0.1446	0.1446	0.205932	0.173322	0.223052	0.222512	0.150002	0.150002	0.206089	0.173455	0.223222	0.222682	0.150116	0.150116	0.20596
4000	0.037405	0.031567	0.04045	0.040355	0.027374	0.027374	0.040081	0.033826	0.043344	0.043242	0.029333	0.029333	0.040041	0.033792	0.043301	0.043198	0.029303	0.029303	0.040164
5000	0.065068	0.055104	0.070224	0.070063	0.047905	0.047905	0.067337	0.057026	0.072673	0.072506	0.049576	0.049576	0.067269	0.056968	0.0726	0.072433	0.049526	0.049526	0.067168
6000	0.001223	0.001298	0.001519	0.001517	0.001286	0.001286	0.001349	0.001432	0.001676	0.001674	0.001418	0.001418	0.001348	0.00143	0.001674	0.001672	0.001417	0.001417	0.001346
7000	0.000781	0.00083	0.00097	0.000969	0.000823	0.000823	0.000835	0.000887	0.001037	0.001036	0.00088	0.00088	0.000834	0.000886	0.001036	0.001035	0.000879	0.000879	0.000833
8000	0.000409	0.000435	0.000508	0.000507	0.000432	0.000432	0.00038	0.000404	0.000472	0.000471	0.000401	0.000401	0.00038	0.000404	0.000472	0.000471	0.000401	0.000401	0.000379
9000	0.000588	0.000625	0.000729	0.000728	0.000621	0.000621	0.000564	0.0006	0.000699	0.000699	0.000595	0.000595	0.000563	0.000599	0.000699	0.000698	0.000595	0.000595	0.000562
10000	0.000374	0.000399	0.000465	0.000464	0.000396	0.000396	0.000503	0.000536	0.000624	0.000624	0.000532	0.000532	0.000503	0.000536	0.000624	0.000623	0.000532	0.000532	0.000502
11000	0.000365	0.000396	0.000453	0.000452	0.000398	0.000398	0.000387	0.00042	0.00048	0.00048	0.000422	0.000422	0.000387	0.00042	0.00048	0.000479	0.000422	0.000422	0.000386
12000	0.000395	0.000428	0.000489	0.000489	0.000431	0.000431	0.000513	0.000556	0.000635	0.000635	0.000559	0.000559	0.000512	0.000556	0.000635	0.000634	0.000559	0.000559	0.000511
13000	0.000293	0.000317	0.000363	0.000362	0.000319	0.000319	0.00045	0.000489	0.000558	0.000558	0.000492	0.000492	0.00045	0.000488	0.000558	0.000557	0.000491	0.000491	0.000449
14000	8.78E-05	9.53E-05	0.000109	0.000109	9.59E-05	9.59E-05	0.000125	0.000136	0.000155	0.000155	0.000137	0.000137	0.000125	0.000136	0.000155	0.000155	0.000137	0.000137	0.000125
15000	1.46E-05	1.59E-05	1.81E-05	1.81E-05	1.6E-05	1.6E-05	2.5E-05	2.72E-05	3.1E-05	3.1E-05	2.74E-05	2.74E-05	2.5E-05	2.72E-05	3.1E-05	3.1E-05	2.73E-05	2.73E-05	2.5E-05

% Reductic	% Reductic	% Reductic	% Reductic	% Reductic	% Reduction for Tier 4f PM10GBHP
0.693575	0.940758	0.425104	0.425104	0.934186	0.934186

Final % Reduction GivenTier 4i

	2012						2015						2016						
	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
1000	0.043919	0.022421	No Reduct	No Reduct	0.042322	0.042322	0.039779	0.020307	No Reduct	No Reduct	0.038333	0.038333	0.039739	0.020287	No Reduct	No Reduct	0.038295	0.038295	0.039679
2000	0.207154	0.106436	No Reduct	No Reduct	0.201845	0.201845	0.197346	0.101397	No Reduct	No Reduct	0.192288	0.192288	0.197397	0.101423	No Reduct	No Reduct	0.192338	0.192338	0.197599
3000	0.137685	0.071026	No Reduct	No Reduct	0.135083	0.135083	0.142829	0.07368	No Reduct	No Reduct	0.14013	0.14013	0.142938	0.073736	No Reduct	No Reduct	0.140237	0.140237	0.142849
4000	0.025943	0.013419	No Reduct	No Reduct	0.025573	0.025573	0.027799	0.01438	No Reduct	No Reduct	0.027402	0.027402	0.027771	0.014365	No Reduct	No Reduct	0.027375	0.027375	0.027856
5000	0.045129	0.023425	No Reduct	No Reduct	0.044752	0.044752	0.046703	0.024242	No Reduct	No Reduct	0.046313	0.046313	0.046656	0.024217	No Reduct	No Reduct	0.046266	0.046266	0.046586

2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
0.081511	0.08139	0.081516	0.081395	0.081522	0.081401	0.081281	0.081653	0.081552	0.081678	0.081558
0.397863	0.397767	0.397423	0.397823	0.397727	0.397879	0.39803	0.397688	0.3972	0.397351	0.397502
0.284294	0.284367	0.28444	0.284513	0.284585	0.28441	0.284483	0.284555	0.284697	0.284768	0.28484
0.05492	0.055087	0.055005	0.054923	0.054842	0.055007	0.054926	0.055091	0.055023	0.054942	0.054862
0.091451	0.091315	0.091427	0.091291	0.091403	0.091515	0.091379	0.091244	0.091378	0.091244	0.091354
0.022614	0.022581	0.022547	0.022514	0.02248	0.022447	0.022414	0.022381	0.022353	0.02232	0.022288
0.013917	0.013896	0.013875	0.013855	0.013834	0.013814	0.013793	0.013773	0.013756	0.013736	0.013715
0.006213	0.006203	0.006194	0.006185	0.006176	0.006167	0.006158	0.006149	0.006387	0.006377	0.006368
0.009195	0.009181	0.009415	0.009401	0.009387	0.009373	0.00936	0.009346	0.009334	0.009321	0.009307
0.008201	0.008189	0.008176	0.008164	0.008152	0.00814	0.008128	0.008116	0.008106	0.008094	0.008082
0.007704	0.007692	0.007681	0.007669	0.007658	0.007647	0.007882	0.00787	0.00786	0.007849	0.007837
0.010189	0.010174	0.010159	0.010143	0.010128	0.010113	0.010099	0.010084	0.010317	0.010302	0.010287
0.008946	0.009181	0.009167	0.009154	0.00914	0.009127	0.009113	0.0091	0.009089	0.009075	0.009062
0.002485	0.002481	0.002478	0.002474	0.00247	0.002467	0.002463	0.002459	0.002456	0.002453	0.002449
0.000497	0.000496	0.000496	0.000495	0.000494	0.000493	0.000493	0.000492	0.000491	0.000491	0.00049

2017						2018						2019						20	
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON
0.04765	0.062347	0.062183	0.040931	0.040931	0.057477	0.047873	0.062639	0.062474	0.041122	0.041122	0.05739	0.047801	0.062545	0.06238	0.04106	0.04106	0.05748	0.047876	0.062643
0.238829	0.309307	0.308535	0.206099	0.206099	0.284651	0.23862	0.309037	0.308265	0.205919	0.205919	0.284941	0.238864	0.309352	0.308579	0.206129	0.206129	0.284872	0.238806	0.309277
0.173346	0.223083	0.222543	0.150022	0.150022	0.206014	0.173391	0.22314	0.2226	0.150061	0.150061	0.205885	0.173283	0.223001	0.222461	0.149968	0.149968	0.205939	0.173328	0.223059
0.033896	0.043434	0.043331	0.029393	0.029393	0.040103	0.033845	0.043368	0.043266	0.029349	0.029349	0.040043	0.033794	0.043303	0.0432	0.029305	0.029305	0.040165	0.033897	0.043435
0.056882	0.07249	0.072324	0.049451	0.049451	0.067251	0.056953	0.072581	0.072414	0.049513	0.049513	0.067334	0.057024	0.072671	0.072504	0.049574	0.049574	0.067233	0.056938	0.072561
0.001428	0.001671	0.001669	0.001415	0.001415	0.001344	0.001426	0.001669	0.001667	0.001413	0.001413	0.001342	0.001424	0.001666	0.001664	0.00141	0.00141	0.00134	0.001422	0.001664
0.000885	0.001034	0.001033	0.000877	0.000877	0.000832	0.000884	0.001033	0.001032	0.000876	0.000876	0.000831	0.000882	0.001031	0.00103	0.000875	0.000875	0.000829	0.000881	0.00103
0.000403	0.000471	0.00047	0.0004	0.0004	0.000379	0.000403	0.00047	0.00047	0.0004	0.0004	0.000378	0.000402	0.000469	0.000469	0.000399	0.000399	0.000378	0.000402	0.000469
0.000598	0.000698	0.000697	0.000594	0.000594	0.000561	0.000597	0.000697	0.000696	0.000593	0.000593	0.00056	0.000596	0.000695	0.000695	0.000592	0.000592	0.00056	0.000596	0.000694
0.000535	0.000623	0.000622	0.000531	0.000531	0.000501	0.000534	0.000622	0.000621	0.00053	0.00053	0.0005	0.000533	0.000621	0.00062	0.00053	0.00053	0.0005	0.000532	0.00062
0.000419	0.000479	0.000478	0.000421	0.000421	0.000386	0.000418	0.000478	0.000478	0.000421	0.000421	0.000385	0.000418	0.000477	0.000477	0.00042	0.00042	0.000385	0.000417	0.000477
0.000555	0.000634	0.000633	0.000558	0.000558	0.000511	0.000554	0.000633	0.000632	0.000557	0.000557	0.00051	0.000553	0.000632	0.000631	0.000556	0.000556	0.000509	0.000552	0.000631
0.000487	0.000557	0.000556	0.00049	0.00049	0.000449	0.000487	0.000556	0.000555	0.00049	0.00049	0.000448	0.000486	0.000555	0.000554	0.000489	0.000489	0.000447	0.000485	0.000554
0.000135	0.000155	0.000155	0.000136	0.000136	0.000125	0.000135	0.000154	0.000154	0.000136	0.000136	0.000124	0.000135	0.000154	0.000154	0.000136	0.000136	0.000124	0.000135	0.000154
2.71E-05	3.09E-05	3.09E-05	2.73E-05	2.73E-05	2.49E-05	2.71E-05	3.09E-05	3.09E-05	2.72E-05	2.72E-05	2.49E-05	2.7E-05	3.09E-05	3.08E-05	2.72E-05	2.72E-05	2.49E-05	2.7E-05	3.08E-05

2017						2018						2019						20	
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON
0.020256	No Reduct	No Reduct	0.038237	0.038237	0.039864	0.020351	No Reduct	No Reduct	0.038416	0.038416	0.039804	0.02032	No Reduct	No Reduct	0.038358	0.038358	0.039867	0.020352	No Reduct
0.101527	No Reduct	No Reduct	0.192535	0.192535	0.197426	0.101438	No Reduct	No Reduct	0.192366	0.192366	0.197628	0.101542	No Reduct	No Reduct	0.192562	0.192562	0.19758	0.101517	No Reduct
0.07369	No Reduct	No Reduct	0.140149	0.140149	0.142886	0.073709	No Reduct	No Reduct	0.140185	0.140185	0.142797	0.073663	No Reduct	No Reduct	0.140098	0.140098	0.142834	0.073682	No Reduct
0.014409	No Reduct	No Reduct	0.027459	0.027459	0.027814	0.014387	No Reduct	No Reduct	0.027417	0.027417	0.027773	0.014366	No Reduct	No Reduct	0.027376	0.027376	0.027858	0.01441	No Reduct
0.024181	No Reduct	No Reduct	0.046197	0.046197	0.046644	0.024211	No Reduct	No Reduct	0.046254	0.046254	0.046701	0.024241	No Reduct	No Reduct	0.046311	0.046311	0.046631	0.024204	No Reduct

20						2021						2022						2023	
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON
0.062478	0.041125	0.041125	0.057394	0.047804	0.062549	0.062384	0.041063	0.041063	0.057308	0.047732	0.062455	0.062291	0.041001	0.041001	0.057398	0.047807	0.062553	0.062388	0.041066
0.308504	0.206079	0.206079	0.284803	0.238748	0.309202	0.308429	0.206029	0.206029	0.28527	0.23914	0.30971	0.308936	0.206367	0.206367	0.285379	0.239231	0.309828	0.309054	0.206446
0.222519	0.150007	0.150007	0.206173	0.173525	0.223313	0.222772	0.150177	0.150177	0.206045	0.173417	0.223174	0.222634	0.150084	0.150084	0.205917	0.17331	0.223036	0.222496	0.149991
0.043332	0.029394	0.029394	0.040105	0.033846	0.04337	0.043267	0.02935	0.02935	0.040045	0.033795	0.043305	0.043203	0.029306	0.029306	0.040167	0.033898	0.043437	0.043334	0.029395
0.072395	0.0495	0.0495	0.067316	0.057008	0.072651	0.072484	0.049561	0.049561	0.067216	0.056923	0.072542	0.072376	0.049487	0.049487	0.067115	0.056838	0.072434	0.072267	0.049413
0.001662	0.001408	0.001408	0.001338	0.00142	0.001661	0.001659	0.001406	0.001406	0.001336	0.001417	0.001659	0.001657	0.001404	0.001404	0.001334	0.001415	0.001656	0.001654	0.001402
0.001028	0.000873	0.000873	0.000828	0.00088	0.001028	0.001027	0.000872	0.000872	0.000827	0.000878	0.001027	0.001025	0.000871	0.000871	0.000826	0.000877	0.001025	0.001024	0.00087
0.000468	0.000399	0.000399	0.000377	0.000401	0.000468	0.000467	0.000398	0.000398	0.000377	0.0004	0.000467	0.000467	0.000397	0.000397	0.000376	0.0004	0.000467	0.000466	0.000397
0.000694	0.000591	0.000591	0.000559	0.000595	0.000693	0.000693	0.00059	0.00059	0.000558	0.000594	0.000692	0.000692	0.000589	0.000589	0.000557	0.000593	0.000691	0.000691	0.000589
0.000619	0.000529	0.000529	0.000499	0.000532	0.000619	0.000618	0.000528	0.000528	0.000498	0.000531	0.000618	0.000617	0.000527	0.000527	0.000497	0.00053	0.000617	0.000617	0.000526
0.000476	0.000419	0.000419	0.000384	0.000416	0.000476	0.000476	0.000419	0.000419	0.000383	0.000416	0.000475	0.000475	0.000418	0.000418	0.000383	0.000415	0.000475	0.000474	0.000418
0.00063	0.000556	0.000556	0.000508	0.000551	0.00063	0.000629	0.000555	0.000555	0.000508	0.000551	0.000629	0.000628	0.000554	0.000554	0.000507	0.00055	0.000628	0.000627	0.000553
0.000554	0.000488	0.000488	0.000446	0.000485	0.000553	0.000553	0.000488	0.000488	0.000446	0.000484	0.000553	0.000552	0.000487	0.000487	0.000445	0.000483	0.000552	0.000551	0.000486
0.000154	0.000136	0.000136	0.000124	0.000135	0.000154	0.000154	0.000136	0.000136	0.000124	0.000134	0.000154	0.000153	0.000135	0.000135	0.000124	0.000134	0.000153	0.000153	0.000135
3.08E-05	2.72E-05	2.72E-05	2.48E-05	2.69E-05	3.08E-05	3.07E-05	2.71E-05	2.71E-05	2.48E-05	2.69E-05	3.07E-05	3.07E-05	2.71E-05	2.71E-05	2.47E-05	2.69E-05	3.07E-05	3.06E-05	2.7E-05

20						2021						2022						2023	
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON
No Reduct	0.038418	0.038418	0.039807	0.020322	No Reduct	No Reduct	0.03836	0.03836	0.039748	0.020291	No Reduct	No Reduct	0.038303	0.038303	0.03981	0.020323	No Reduct	No Reduct	0.038363
No Reduct	0.192516	0.192516	0.197532	0.101492	No Reduct	No Reduct	0.192469	0.192469	0.197856	0.101659	No Reduct	No Reduct	0.192785	0.192785	0.197932	0.101698	No Reduct	No Reduct	0.192859
No Reduct	0.140134	0.140134	0.142996	0.073766	No Reduct	No Reduct	0.140293	0.140293	0.142907	0.07372	No Reduct	No Reduct	0.140206	0.140206	0.142819	0.073675	No Reduct	No Reduct	0.140119
No Reduct	0.02746	0.02746	0.027816	0.014388	No Reduct	No Reduct	0.027418	0.027418	0.027774	0.014367	No Reduct	No Reduct	0.027377	0.027377	0.027859	0.01441	No Reduct	No Reduct	0.027461
No Reduct	0.046242	0.046242	0.046689	0.024234	No Reduct	No Reduct	0.046299	0.046299	0.046619	0.024198	No Reduct	No Reduct	0.04623	0.04623	0.046549	0.024162	No Reduct	No Reduct	0.04616

2024						2025						2026								
PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
0.041066	0.057312	0.047736	0.06246	0.062295	0.041004	0.041004	0.057402	0.047811	0.062557	0.062393	0.041068	0.041068	0.057316	0.047739	0.062464	0.0623	0.041007	0.041007	0.057406
0.206446	0.285132	0.239024	0.309559	0.308786	0.206267	0.206267	0.285063	0.238966	0.309484	0.308711	0.206217	0.206217	0.284994	0.238908	0.309409	0.308636	0.206167	0.206167	0.284748
0.149991	0.20579	0.173203	0.222898	0.222358	0.149898	0.149898	0.205843	0.173247	0.222955	0.222415	0.149937	0.149937	0.205896	0.173292	0.223012	0.222472	0.149975	0.149975	0.205948
0.029395	0.040107	0.033848	0.043372	0.043269	0.029351	0.029351	0.040047	0.033797	0.043307	0.043205	0.029308	0.029308	0.040168	0.0339	0.043439	0.043336	0.029396	0.029396	0.040109
0.049413	0.067381	0.057063	0.072721	0.072554	0.049608	0.049608	0.067281	0.056978	0.072612	0.072446	0.049534	0.049534	0.06718	0.056893	0.072504	0.072338	0.049461	0.049461	0.067263
0.001402	0.001361	0.001445	0.001691	0.001689	0.001431	0.001431	0.001359	0.001443	0.001689	0.001687	0.001429	0.001429	0.001357	0.001441	0.001686	0.001684	0.001427	0.001427	0.001355
0.00087	0.000824	0.000876	0.001024	0.001022	0.000868	0.000868	0.000838	0.00089	0.001041	0.001039	0.000883	0.000883	0.000837	0.000889	0.001039	0.001038	0.000881	0.000881	0.000836
0.000397	0.000375	0.000399	0.000466	0.000465	0.000396	0.000396	0.000375	0.000399	0.000465	0.000465	0.000396	0.000396	0.000374	0.000398	0.000465	0.000464	0.000395	0.000395	0.000374
0.000589	0.000556	0.000592	0.00069	0.000689	0.000588	0.000588	0.000555	0.000591	0.000689	0.000688	0.000587	0.000587	0.000555	0.00059	0.000688	0.000687	0.000586	0.000586	0.000569
0.000526	0.000497	0.000529	0.000616	0.000616	0.000526	0.000526	0.000496	0.000528	0.000615	0.000615	0.000525	0.000525	0.000495	0.000528	0.000614	0.000614	0.000524	0.000524	0.000495
0.000418	0.000382	0.000415	0.000474	0.000473	0.000417	0.000417	0.000382	0.000414	0.000473	0.000473	0.000416	0.000416	0.000381	0.000413	0.000473	0.000472	0.000416	0.000416	0.000381
0.000553	0.000506	0.000549	0.000627	0.000627	0.000552	0.000552	0.000505	0.000548	0.000626	0.000626	0.000551	0.000551	0.000504	0.000547	0.000625	0.000625	0.000551	0.000551	0.000504
0.000486	0.000444	0.000482	0.000551	0.00055	0.000485	0.000485	0.000444	0.000482	0.00055	0.00055	0.000485	0.000485	0.000455	0.000494	0.000564	0.000564	0.000497	0.000497	0.000455
0.000135	0.000124	0.000134	0.000153	0.000153	0.000135	0.000135	0.000123	0.000134	0.000153	0.000153	0.000135	0.000135	0.000123	0.000134	0.000153	0.000152	0.000135	0.000135	0.000123
2.7E-05	2.47E-05	2.68E-05	3.06E-05	3.06E-05	2.7E-05	2.7E-05	2.47E-05	2.68E-05	3.06E-05	3.05E-05	2.7E-05	2.7E-05	2.46E-05	2.67E-05	3.05E-05	3.05E-05	2.69E-05	2.69E-05	2.46E-05

2024						2025						2026								
PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
0.038363	0.03975	0.020293	No Reduct	No Reduct	0.038306	0.038306	0.039813	0.020324	No Reduct	No Reduct	0.038366	0.038366	0.039753	0.020294	No Reduct	No Reduct	0.038308	0.038308	0.039815
0.192859	0.19776	0.10161	No Reduct	No Reduct	0.192691	0.192691	0.197712	0.101585	No Reduct	No Reduct	0.192645	0.192645	0.197664	0.101561	No Reduct	No Reduct	0.192598	0.192598	0.197494
0.140119	0.142731	0.073629	No Reduct	No Reduct	0.140033	0.140033	0.142767	0.073648	No Reduct	No Reduct	0.140069	0.140069	0.142804	0.073667	No Reduct	No Reduct	0.140105	0.140105	0.142841
0.027461	0.027817	0.014389	No Reduct	No Reduct	0.02742	0.02742	0.027776	0.014367	No Reduct	No Reduct	0.027379	0.027379	0.02786	0.014411	No Reduct	No Reduct	0.027462	0.027462	0.027818
0.04616	0.046734	0.024258	No Reduct	No Reduct	0.046343	0.046343	0.046664	0.024222	No Reduct	No Reduct	0.046274	0.046274	0.046595	0.024185	No Reduct	No Reduct	0.046205	0.046205	0.046652

2027						2028						2029						20	
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON
0.047814	0.062561	0.062397	0.041071	0.041071	0.057321	0.047743	0.062468	0.062304	0.04101	0.04101	0.05741	0.047817	0.062565	0.062401	0.041074	0.041074	0.057325	0.047746	0.062473
0.238702	0.309142	0.30837	0.205989	0.205989	0.285034	0.238942	0.309453	0.30868	0.206196	0.206196	0.284965	0.238884	0.309379	0.308606	0.206146	0.206146	0.285074	0.238975	0.309496
0.173336	0.223069	0.222529	0.150014	0.150014	0.206001	0.17338	0.223126	0.222586	0.150052	0.150052	0.206053	0.173424	0.223183	0.222643	0.15009	0.15009	0.205927	0.173318	0.223046
0.033849	0.043374	0.043271	0.029353	0.029353	0.040049	0.033799	0.04331	0.043207	0.029309	0.029309	0.03999	0.033749	0.043245	0.043143	0.029266	0.029266	0.04011	0.033851	0.043376
0.056963	0.072593	0.072426	0.049521	0.049521	0.067163	0.056878	0.072485	0.072319	0.049448	0.049448	0.067245	0.056948	0.072574	0.072407	0.049508	0.049508	0.067327	0.057017	0.072663
0.001439	0.001684	0.001682	0.001425	0.001425	0.001353	0.001436	0.001681	0.001679	0.001423	0.001423	0.001351	0.001434	0.001679	0.001677	0.001421	0.001421	0.001349	0.001432	0.001676
0.000888	0.001038	0.001036	0.00088	0.00088	0.000834	0.000886	0.001036	0.001035	0.000879	0.000879	0.000833	0.000885	0.001034	0.001033	0.000878	0.000878	0.000832	0.000884	0.001033
0.000397	0.000464	0.000463	0.000394	0.000394	0.000373	0.000397	0.000463	0.000463	0.000394	0.000394	0.000373	0.000396	0.000462	0.000462	0.000393	0.000393	0.000372	0.000396	0.000462
0.000605	0.000706	0.000705	0.000601	0.000601	0.000568	0.000604	0.000705	0.000704	0.0006	0.0006	0.000567	0.000604	0.000704	0.000703	0.000599	0.000599	0.000566	0.000603	0.000703
0.000527	0.000614	0.000613	0.000523	0.000523	0.000494	0.000526	0.000613	0.000612	0.000522	0.000522	0.000493	0.000525	0.000612	0.000611	0.000522	0.000522	0.000492	0.000524	0.000611
0.000413	0.000472	0.000471	0.000415	0.000415	0.00038	0.000412	0.000471	0.000471	0.000414	0.000414	0.00038	0.000412	0.00047	0.00047	0.000414	0.000414	0.000379	0.000411	0.00047
0.000546	0.000624	0.000624	0.00055	0.00055	0.000503	0.000546	0.000623	0.000623	0.000549	0.000549	0.000502	0.000545	0.000622	0.000622	0.000548	0.000548	0.000502	0.000544	0.000622
0.000494	0.000564	0.000563	0.000497	0.000497	0.000454	0.000493	0.000563	0.000562	0.000496	0.000496	0.000453	0.000492	0.000562	0.000561	0.000495	0.000495	0.000453	0.000491	0.000561
0.000133	0.000152	0.000152	0.000134	0.000134	0.000123	0.000133	0.000152	0.000152	0.000134	0.000134	0.000123	0.000133	0.000152	0.000152	0.000134	0.000134	0.000122	0.000133	0.000152
2.67E-05	3.05E-05	3.05E-05	2.69E-05	2.69E-05	2.46E-05	2.67E-05	3.04E-05	3.04E-05	2.68E-05	2.68E-05	2.45E-05	2.66E-05	3.04E-05	3.04E-05	2.68E-05	2.68E-05	2.45E-05	2.66E-05	3.03E-05

2027						2028						2029						20	
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON
0.020326	No Reduct	No Reduct	0.038368	0.038368	0.039756	0.020296	No Reduct	No Reduct	0.038311	0.038311	0.039818	0.020327	No Reduct	No Reduct	0.038371	0.038371	0.039759	0.020297	No Reduct
0.101473	No Reduct	No Reduct	0.192432	0.192432	0.197692	0.101575	No Reduct	No Reduct	0.192625	0.192625	0.197645	0.101551	No Reduct	No Reduct	0.192579	0.192579	0.19772	0.101589	No Reduct
0.073686	No Reduct	No Reduct	0.140141	0.140141	0.142877	0.073705	No Reduct	No Reduct	0.140176	0.140176	0.142913	0.073723	No Reduct	No Reduct	0.140212	0.140212	0.142826	0.073678	No Reduct
0.014389	No Reduct	No Reduct	0.027421	0.027421	0.027777	0.014368	No Reduct	No Reduct	0.02738	0.02738	0.027736	0.014347	No Reduct	No Reduct	0.02734	0.02734	0.027819	0.01439	No Reduct
0.024215	No Reduct	No Reduct	0.046262	0.046262	0.046583	0.024179	No Reduct	No Reduct	0.046193	0.046193	0.04664	0.024209	No Reduct	No Reduct	0.04625	0.04625	0.046696	0.024238	No Reduct

30			2031						2032						2033					
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON
0.062308	0.041013	0.041013	0.05724	0.047676	0.062381	0.062216	0.040952	0.040952	0.057502	0.047894	0.062666	0.062501	0.04114	0.04114	0.057431	0.047835	0.062589	0.062424	0.041089
0.308723	0.206225	0.206225	0.285182	0.239066	0.309614	0.30884	0.206303	0.206303	0.284937	0.238861	0.309348	0.308575	0.206126	0.206126	0.284587	0.238567	0.308968	0.308196	0.205873
0.222506	0.149998	0.149998	0.205979	0.173362	0.223103	0.222563	0.150036	0.150036	0.206031	0.173406	0.223159	0.222619	0.150074	0.150074	0.206134	0.173492	0.223271	0.22273	0.150149
0.043273	0.029354	0.029354	0.040051	0.033801	0.043312	0.043209	0.029311	0.029311	0.040171	0.033902	0.043442	0.043339	0.029399	0.029399	0.040122	0.033861	0.043389	0.043286	0.029363
0.072496	0.049569	0.049569	0.067228	0.056933	0.072555	0.072388	0.049495	0.049495	0.067128	0.056849	0.072448	0.072282	0.049422	0.049422	0.067227	0.056932	0.072554	0.072387	0.049495
0.001674	0.001419	0.001419	0.001347	0.00143	0.001674	0.001672	0.001417	0.001417	0.001345	0.001428	0.001671	0.001669	0.001414	0.001414	0.001344	0.001426	0.001669	0.001667	0.001413
0.001032	0.000876	0.000876	0.000831	0.000883	0.001031	0.00103	0.000875	0.000875	0.000829	0.000881	0.00103	0.001029	0.000874	0.000874	0.000828	0.00088	0.001029	0.001027	0.000873
0.000461	0.000393	0.000393	0.000371	0.000395	0.000461	0.000461	0.000392	0.000392	0.000371	0.000395	0.00046	0.00046	0.000391	0.000391	0.000385	0.00041	0.000478	0.000478	0.000407
0.000702	0.000598	0.000598	0.000565	0.000602	0.000702	0.000701	0.000597	0.000597	0.000565	0.000601	0.000701	0.0007	0.000596	0.000596	0.000564	0.0006	0.0007	0.000699	0.000596
0.00061	0.000521	0.000521	0.000492	0.000524	0.00061	0.000609	0.00052	0.00052	0.000491	0.000523	0.000609	0.000608	0.000519	0.000519	0.00049	0.000522	0.000608	0.000608	0.000519
0.000469	0.000413	0.000413	0.000391	0.000424	0.000484	0.000484	0.000426	0.000426	0.00039	0.000423	0.000483	0.000483	0.000425	0.000425	0.00039	0.000422	0.000483	0.000482	0.000425
0.000621	0.000547	0.000547	0.000501	0.000543	0.000621	0.00062	0.000547	0.000547	0.0005	0.000542	0.00062	0.000619	0.000546	0.000546	0.000512	0.000555	0.000634	0.000633	0.000558
0.000561	0.000494	0.000494	0.000452	0.000491	0.00056	0.00056	0.000494	0.000494	0.000451	0.00049	0.000559	0.000559	0.000493	0.000493	0.000451	0.000489	0.000559	0.000558	0.000492
0.000152	0.000134	0.000134	0.000122	0.000133	0.000151	0.000151	0.000134	0.000134	0.000122	0.000132	0.000151	0.000151	0.000133	0.000133	0.000122	0.000132	0.000151	0.000151	0.000133
3.03E-05	2.68E-05	2.68E-05	2.45E-05	2.66E-05	3.03E-05	3.03E-05	2.67E-05	2.67E-05	2.44E-05	2.65E-05	3.03E-05	3.02E-05	2.67E-05	2.67E-05	2.44E-05	2.65E-05	3.02E-05	3.02E-05	2.67E-05

30			2031						2032						2033					
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON
No Reduct	0.038314	0.038314	0.0397	0.020267	No Reduct	No Reduct	0.038257	0.038257	0.039882	0.02036	No Reduct	No Reduct	0.038432	0.038432	0.039833	0.020335	No Reduct	No Reduct	0.038385
No Reduct	0.192652	0.192652	0.197795	0.101628	No Reduct	No Reduct	0.192725	0.192725	0.197625	0.101541	No Reduct	No Reduct	0.19256	0.19256	0.197383	0.101416	No Reduct	No Reduct	0.192324
No Reduct	0.140126	0.140126	0.142862	0.073697	No Reduct	No Reduct	0.140162	0.140162	0.142898	0.073715	No Reduct	No Reduct	0.140197	0.140197	0.142969	0.073752	No Reduct	No Reduct	0.140267
No Reduct	0.027422	0.027422	0.027778	0.014369	No Reduct	No Reduct	0.027382	0.027382	0.027862	0.014412	No Reduct	No Reduct	0.027464	0.027464	0.027828	0.014394	No Reduct	No Reduct	0.02743
No Reduct	0.046306	0.046306	0.046627	0.024202	No Reduct	No Reduct	0.046238	0.046238	0.046559	0.024167	No Reduct	No Reduct	0.04617	0.04617	0.046627	0.024202	No Reduct	No Reduct	0.046237

2034						2035					
PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
0.041089	0.057519	0.047908	0.062685	0.06252	0.041152	0.041152	0.057435	0.047838	0.062593	0.062428	0.041092	0.041092
0.205873	0.284696	0.238658	0.309086	0.308314	0.205951	0.205951	0.284804	0.238749	0.309203	0.308431	0.20603	0.20603
0.150149	0.206186	0.173536	0.223327	0.222786	0.150187	0.150187	0.206238	0.173579	0.223383	0.222842	0.150224	0.150224
0.029363	0.040063	0.033811	0.043325	0.043222	0.029319	0.029319	0.040004	0.033761	0.043261	0.043159	0.029276	0.029276
0.049495	0.067128	0.056848	0.072447	0.072281	0.049422	0.049422	0.067209	0.056918	0.072535	0.072369	0.049482	0.049482
0.001413	0.001342	0.001424	0.001667	0.001665	0.001411	0.001411	0.00134	0.001422	0.001664	0.001662	0.001409	0.001409
0.000873	0.000827	0.000879	0.001027	0.001026	0.000871	0.000871	0.000826	0.000878	0.001026	0.001024	0.00087	0.00087
0.000407	0.000385	0.000409	0.000478	0.000477	0.000406	0.000406	0.000384	0.000409	0.000477	0.000476	0.000405	0.000405
0.000596	0.000563	0.000599	0.000699	0.000698	0.000595	0.000595	0.000562	0.000598	0.000698	0.000697	0.000594	0.000594
0.000519	0.00049	0.000521	0.000607	0.000607	0.000518	0.000518	0.000489	0.000521	0.000606	0.000606	0.000517	0.000517
0.000425	0.000389	0.000422	0.000482	0.000482	0.000424	0.000424	0.000388	0.000421	0.000481	0.000481	0.000424	0.000424
0.000558	0.000511	0.000554	0.000633	0.000633	0.000557	0.000557	0.00051	0.000553	0.000632	0.000632	0.000557	0.000557
0.000492	0.00045	0.000489	0.000558	0.000557	0.000492	0.000492	0.00045	0.000488	0.000557	0.000557	0.000491	0.000491
0.000133	0.000122	0.000132	0.000151	0.000151	0.000133	0.000133	0.000122	0.000132	0.000151	0.00015	0.000133	0.000133
2.67E-05	2.44E-05	2.64E-05	3.02E-05	3.02E-05	2.66E-05	2.66E-05	2.43E-05	2.64E-05	3.01E-05	3.01E-05	2.66E-05	2.66E-05

2034						2035					
PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
0.038385	0.039894	0.020366	No Reduct	No Reduct	0.038444	0.038444	0.039835	0.020336	No Reduct	No Reduct	0.038388	0.038388
0.192324	0.197458	0.101454	No Reduct	No Reduct	0.192397	0.192397	0.197533	0.101493	No Reduct	No Reduct	0.19247	0.19247
0.140267	0.143005	0.073771	No Reduct	No Reduct	0.140302	0.140302	0.143041	0.073789	No Reduct	No Reduct	0.140338	0.140338
0.02743	0.027787	0.014373	No Reduct	No Reduct	0.02739	0.02739	0.027746	0.014352	No Reduct	No Reduct	0.027349	0.027349
0.046237	0.046558	0.024166	No Reduct	No Reduct	0.046169	0.046169	0.046615	0.024196	No Reduct	No Reduct	0.046225	0.046225

6000	0.000848	0.000552	No Reduct	No Reduct	0.001201	0.001201	0.000936	0.000609	No Reduct	No Reduct	0.001325	0.001325	0.000935	0.000608	No Reduct	No Reduct	0.001324	0.001324	0.000933
7000	0.000542	0.000353	No Reduct	No Reduct	0.000769	0.000769	0.000579	0.000377	No Reduct	No Reduct	0.000822	0.000822	0.000579	0.000377	No Reduct	No Reduct	0.000821	0.000821	0.000578
8000	0.000284	0.000185	No Reduct	No Reduct	0.000403	0.000403	0.000264	0.000172	No Reduct	No Reduct	0.000375	0.000375	0.000263	0.000172	No Reduct	No Reduct	0.000375	0.000375	0.000263
9000	0.000408	0.000266	No Reduct	No Reduct	0.00058	0.00058	0.000391	0.000255	No Reduct	No Reduct	0.000556	0.000556	0.00039	0.000255	No Reduct	No Reduct	0.000556	0.000556	0.00039
10000	0.00026	0.00017	No Reduct	No Reduct	0.00037	0.00037	0.000349	0.000228	No Reduct	No Reduct	0.000497	0.000497	0.000349	0.000228	No Reduct	No Reduct	0.000497	0.000497	0.000348
11000	0.000253	0.000168	No Reduct	No Reduct	0.000372	0.000372	0.000269	0.000179	No Reduct	No Reduct	0.000395	0.000395	0.000268	0.000178	No Reduct	No Reduct	0.000394	0.000394	0.000268
12000	0.000274	0.000182	No Reduct	No Reduct	0.000402	0.000402	0.000356	0.000236	No Reduct	No Reduct	0.000523	0.000523	0.000355	0.000236	No Reduct	No Reduct	0.000522	0.000522	0.000355
13000	0.000203	0.000135	No Reduct	No Reduct	0.000298	0.000298	0.000312	0.000208	No Reduct	No Reduct	0.000459	0.000459	0.000312	0.000208	No Reduct	No Reduct	0.000459	0.000459	0.000312
14000	6.09E-05	4.05E-05	No Reduct	No Reduct	8.96E-05	8.96E-05	8.68E-05	5.77E-05	No Reduct	No Reduct	0.000128	0.000128	8.67E-05	5.77E-05	No Reduct	No Reduct	0.000128	0.000128	8.66E-05
15000	1.02E-05	6.75E-06	No Reduct	No Reduct	1.49E-05	1.49E-05	1.74E-05	1.16E-05	No Reduct	No Reduct	2.56E-05	2.56E-05	1.73E-05	1.15E-05	No Reduct	No Reduct	2.55E-05	2.55E-05	1.73E-05

Final % Reduction GivenTier 4f

	2012						2015						2016					
	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
1000	0.059571	0.022421	No Reduct	No Reduct	0.042322	0.042322	0.053956	0.020307	No Reduct	No Reduct	0.038333	0.038333	0.053901	0.020287	No Reduct	No Reduct	0.038295	0.038295	0.05382
2000	0.280982	0.106436	No Reduct	No Reduct	0.201845	0.201845	0.267678	0.101397	No Reduct	No Reduct	0.192288	0.192288	0.267748	0.101423	No Reduct	No Reduct	0.192338	0.192338	0.268022
3000	0.186755	0.071026	No Reduct	No Reduct	0.135083	0.135083	0.193732	0.07368	No Reduct	No Reduct	0.14013	0.14013	0.19388	0.073736	No Reduct	No Reduct	0.140237	0.140237	0.193759
4000	0.035189	0.013419	No Reduct	No Reduct	0.025573	0.025573	0.037707	0.01438	No Reduct	No Reduct	0.027402	0.027402	0.037669	0.014365	No Reduct	No Reduct	0.027375	0.027375	0.037784
5000	0.061213	0.023425	No Reduct	No Reduct	0.044752	0.044752	0.063348	0.024242	No Reduct	No Reduct	0.046313	0.046313	0.063284	0.024217	No Reduct	No Reduct	0.046266	0.046266	0.063188
6000	0.00115	0.000552	No Reduct	No Reduct	0.001201	0.001201	0.001269	0.000609	No Reduct	No Reduct	0.001325	0.001325	0.001268	0.000608	No Reduct	No Reduct	0.001324	0.001324	0.001266
7000	0.000735	0.000353	No Reduct	No Reduct	0.000769	0.000769	0.000786	0.000377	No Reduct	No Reduct	0.000822	0.000822	0.000785	0.000377	No Reduct	No Reduct	0.000821	0.000821	0.000784
8000	0.000385	0.000185	No Reduct	No Reduct	0.000403	0.000403	0.000358	0.000172	No Reduct	No Reduct	0.000375	0.000375	0.000357	0.000172	No Reduct	No Reduct	0.000375	0.000375	0.000357
9000	0.000553	0.000266	No Reduct	No Reduct	0.00058	0.00058	0.00053	0.000255	No Reduct	No Reduct	0.000556	0.000556	0.00053	0.000255	No Reduct	No Reduct	0.000556	0.000556	0.000529
10000	0.000352	0.00017	No Reduct	No Reduct	0.00037	0.00037	0.000473	0.000228	No Reduct	No Reduct	0.000497	0.000497	0.000473	0.000228	No Reduct	No Reduct	0.000497	0.000497	0.000472
11000	0.000344	0.000168	No Reduct	No Reduct	0.000372	0.000372	0.000364	0.000179	No Reduct	No Reduct	0.000395	0.000395	0.000364	0.000178	No Reduct	No Reduct	0.000394	0.000394	0.000363
12000	0.000371	0.000182	No Reduct	No Reduct	0.000402	0.000402	0.000482	0.000236	No Reduct	No Reduct	0.000523	0.000523	0.000482	0.000236	No Reduct	No Reduct	0.000522	0.000522	0.000481
13000	0.000275	0.000135	No Reduct	No Reduct	0.000298	0.000298	0.000424	0.000208	No Reduct	No Reduct	0.000459	0.000459	0.000423	0.000208	No Reduct	No Reduct	0.000459	0.000459	0.000423
14000	8.26E-05	4.05E-05	No Reduct	No Reduct	8.96E-05	8.96E-05	0.000118	5.77E-05	No Reduct	No Reduct	0.000128	0.000128	0.000118	5.77E-05	No Reduct	No Reduct	0.000128	0.000128	0.000117
15000	1.38E-05	6.75E-06	No Reduct	No Reduct	1.49E-05	1.49E-05	2.36E-05	1.16E-05	No Reduct	No Reduct	2.56E-05	2.56E-05	2.35E-05	1.15E-05	No Reduct	No Reduct	2.55E-05	2.55E-05	2.35E-05

0.000607	No Reduct	No Reduct	0.001322	0.001322	0.000932	0.000606	No Reduct	No Reduct	0.00132	0.00132	0.00093	0.000605	No Reduct	No Reduct	0.001318	0.001318	0.000929	0.000604	No Reduct
0.000376	No Reduct	No Reduct	0.00082	0.00082	0.000577	0.000376	No Reduct	No Reduct	0.000818	0.000818	0.000576	0.000375	No Reduct	No Reduct	0.000817	0.000817	0.000575	0.000375	No Reduct
0.000172	No Reduct	No Reduct	0.000374	0.000374	0.000263	0.000171	No Reduct	No Reduct	0.000373	0.000373	0.000262	0.000171	No Reduct	No Reduct	0.000373	0.000373	0.000262	0.000171	No Reduct
0.000254	No Reduct	No Reduct	0.000555	0.000555	0.000389	0.000254	No Reduct	No Reduct	0.000554	0.000554	0.000389	0.000254	No Reduct	No Reduct	0.000553	0.000553	0.000388	0.000253	No Reduct
0.000227	No Reduct	No Reduct	0.000496	0.000496	0.000348	0.000227	No Reduct	No Reduct	0.000495	0.000495	0.000347	0.000227	No Reduct	No Reduct	0.000495	0.000495	0.000347	0.000226	No Reduct
0.000178	No Reduct	No Reduct	0.000394	0.000394	0.000268	0.000178	No Reduct	No Reduct	0.000393	0.000393	0.000267	0.000178	No Reduct	No Reduct	0.000392	0.000392	0.000267	0.000177	No Reduct
0.000236	No Reduct	No Reduct	0.000521	0.000521	0.000354	0.000235	No Reduct	No Reduct	0.000521	0.000521	0.000354	0.000235	No Reduct	No Reduct	0.00052	0.00052	0.000353	0.000235	No Reduct
0.000207	No Reduct	No Reduct	0.000458	0.000458	0.000311	0.000207	No Reduct	No Reduct	0.000458	0.000458	0.000311	0.000207	No Reduct	No Reduct	0.000457	0.000457	0.00031	0.000206	No Reduct
5.76E-05	No Reduct	No Reduct	0.000127	0.000127	8.64E-05	5.75E-05	No Reduct	No Reduct	0.000127	0.000127	8.63E-05	5.74E-05	No Reduct	No Reduct	0.000127	0.000127	8.62E-05	5.73E-05	No Reduct
1.15E-05	No Reduct	No Reduct	2.55E-05	2.55E-05	1.73E-05	1.15E-05	No Reduct	No Reduct	2.55E-05	2.55E-05	1.73E-05	1.15E-05	No Reduct	No Reduct	2.54E-05	2.54E-05	1.72E-05	1.15E-05	No Reduct

2017						2018						2019						20
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON
0.020256	No Reduct	No Reduct	0.038237	0.038237	0.054072	0.020351	No Reduct	No Reduct	0.038416	0.038416	0.05399	0.02032	No Reduct	No Reduct	0.038358	0.038358	0.054075	0.020352	No Reduct
0.101527	No Reduct	No Reduct	0.192535	0.192535	0.267787	0.101438	No Reduct	No Reduct	0.192366	0.192366	0.26806	0.101542	No Reduct	No Reduct	0.192562	0.192562	0.267995	0.101517	No Reduct
0.07369	No Reduct	No Reduct	0.140149	0.140149	0.193809	0.073709	No Reduct	No Reduct	0.140185	0.140185	0.193688	0.073663	No Reduct	No Reduct	0.140098	0.140098	0.193738	0.073682	No Reduct
0.014409	No Reduct	No Reduct	0.027459	0.027459	0.037727	0.014387	No Reduct	No Reduct	0.027417	0.027417	0.037671	0.014366	No Reduct	No Reduct	0.027376	0.027376	0.037786	0.01441	No Reduct
0.024181	No Reduct	No Reduct	0.046197	0.046197	0.063267	0.024211	No Reduct	No Reduct	0.046254	0.046254	0.063345	0.024241	No Reduct	No Reduct	0.046311	0.046311	0.06325	0.024204	No Reduct
0.000607	No Reduct	No Reduct	0.001322	0.001322	0.001264	0.000606	No Reduct	No Reduct	0.00132	0.00132	0.001262	0.000605	No Reduct	No Reduct	0.001318	0.001318	0.00126	0.000604	No Reduct
0.000376	No Reduct	No Reduct	0.00082	0.00082	0.000783	0.000376	No Reduct	No Reduct	0.000818	0.000818	0.000781	0.000375	No Reduct	No Reduct	0.000817	0.000817	0.00078	0.000375	No Reduct
0.000172	No Reduct	No Reduct	0.000374	0.000374	0.000356	0.000171	No Reduct	No Reduct	0.000373	0.000373	0.000356	0.000171	No Reduct	No Reduct	0.000373	0.000373	0.000355	0.000171	No Reduct
0.000254	No Reduct	No Reduct	0.000555	0.000555	0.000528	0.000254	No Reduct	No Reduct	0.000554	0.000554	0.000527	0.000254	No Reduct	No Reduct	0.000553	0.000553	0.000526	0.000253	No Reduct
0.000227	No Reduct	No Reduct	0.000496	0.000496	0.000472	0.000227	No Reduct	No Reduct	0.000495	0.000495	0.000471	0.000227	No Reduct	No Reduct	0.000495	0.000495	0.00047	0.000226	No Reduct
0.000178	No Reduct	No Reduct	0.000394	0.000394	0.000363	0.000178	No Reduct	No Reduct	0.000393	0.000393	0.000362	0.000178	No Reduct	No Reduct	0.000392	0.000392	0.000362	0.000177	No Reduct
0.000236	No Reduct	No Reduct	0.000521	0.000521	0.00048	0.000235	No Reduct	No Reduct	0.000521	0.000521	0.00048	0.000235	No Reduct	No Reduct	0.00052	0.00052	0.000479	0.000235	No Reduct
0.000207	No Reduct	No Reduct	0.000458	0.000458	0.000422	0.000207	No Reduct	No Reduct	0.000458	0.000458	0.000421	0.000207	No Reduct	No Reduct	0.000457	0.000457	0.000421	0.000206	No Reduct
5.76E-05	No Reduct	No Reduct	0.000127	0.000127	0.000117	5.75E-05	No Reduct	No Reduct	0.000127	0.000127	0.000117	5.74E-05	No Reduct	No Reduct	0.000127	0.000127	0.000117	5.73E-05	No Reduct
1.15E-05	No Reduct	No Reduct	2.55E-05	2.55E-05	2.35E-05	1.15E-05	No Reduct	No Reduct	2.55E-05	2.55E-05	2.34E-05	1.15E-05	No Reduct	No Reduct	2.54E-05	2.54E-05	2.34E-05	1.15E-05	No Reduct

No Reduct	0.001316	0.001316	0.000928	0.000603	No Reduct	No Reduct	0.001314	0.001314	0.000926	0.000603	No Reduct	No Reduct	0.001312	0.001312	0.000925	0.000602	No Reduct	No Reduct	0.00131
No Reduct	0.000816	0.000816	0.000574	0.000374	No Reduct	No Reduct	0.000815	0.000815	0.000573	0.000373	No Reduct	No Reduct	0.000814	0.000814	0.000573	0.000373	No Reduct	No Reduct	0.000812
No Reduct	0.000372	0.000372	0.000262	0.00017	No Reduct	No Reduct	0.000372	0.000372	0.000261	0.00017	No Reduct	No Reduct	0.000371	0.000371	0.000261	0.00017	No Reduct	No Reduct	0.000371
No Reduct	0.000552	0.000552	0.000388	0.000253	No Reduct	No Reduct	0.000551	0.000551	0.000387	0.000252	No Reduct	No Reduct	0.000551	0.000551	0.000386	0.000252	No Reduct	No Reduct	0.00055
No Reduct	0.000494	0.000494	0.000346	0.000226	No Reduct	No Reduct	0.000493	0.000493	0.000346	0.000226	No Reduct	No Reduct	0.000492	0.000492	0.000345	0.000225	No Reduct	No Reduct	0.000492
No Reduct	0.000392	0.000392	0.000266	0.000177	No Reduct	No Reduct	0.000391	0.000391	0.000266	0.000177	No Reduct	No Reduct	0.000391	0.000391	0.000266	0.000177	No Reduct	No Reduct	0.00039
No Reduct	0.000519	0.000519	0.000353	0.000234	No Reduct	No Reduct	0.000518	0.000518	0.000352	0.000234	No Reduct	No Reduct	0.000517	0.000517	0.000351	0.000234	No Reduct	No Reduct	0.000517
No Reduct	0.000456	0.000456	0.00031	0.000206	No Reduct	No Reduct	0.000455	0.000455	0.000309	0.000206	No Reduct	No Reduct	0.000455	0.000455	0.000309	0.000205	No Reduct	No Reduct	0.000454
No Reduct	0.000127	0.000127	8.61E-05	5.73E-05	No Reduct	No Reduct	0.000127	0.000127	8.59E-05	5.72E-05	No Reduct	No Reduct	0.000126	0.000126	8.58E-05	5.71E-05	No Reduct	No Reduct	0.000126
No Reduct	2.54E-05	2.54E-05	1.72E-05	1.15E-05	No Reduct	No Reduct	2.53E-05	2.53E-05	1.72E-05	1.14E-05	No Reduct	No Reduct	2.53E-05	2.53E-05	1.72E-05	1.14E-05	No Reduct	No Reduct	2.53E-05

20						2021						2022						2023	
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON
No Reduct	0.038418	0.038418	0.053994	0.020322	No Reduct	No Reduct	0.03836	0.03836	0.053913	0.020291	No Reduct	No Reduct	0.038303	0.038303	0.053998	0.020323	No Reduct	No Reduct	0.038363
No Reduct	0.192516	0.192516	0.26793	0.101492	No Reduct	No Reduct	0.192469	0.192469	0.26837	0.101659	No Reduct	No Reduct	0.192785	0.192785	0.268473	0.101698	No Reduct	No Reduct	0.192859
No Reduct	0.140134	0.140134	0.193959	0.073766	No Reduct	No Reduct	0.140293	0.140293	0.193838	0.07372	No Reduct	No Reduct	0.140206	0.140206	0.193718	0.073675	No Reduct	No Reduct	0.140119
No Reduct	0.02746	0.02746	0.037729	0.014388	No Reduct	No Reduct	0.027418	0.027418	0.037672	0.014367	No Reduct	No Reduct	0.027377	0.027377	0.037787	0.01441	No Reduct	No Reduct	0.027461
No Reduct	0.046242	0.046242	0.063328	0.024234	No Reduct	No Reduct	0.046299	0.046299	0.063234	0.024198	No Reduct	No Reduct	0.04623	0.04623	0.063139	0.024162	No Reduct	No Reduct	0.04616
No Reduct	0.001316	0.001316	0.001258	0.000603	No Reduct	No Reduct	0.001314	0.001314	0.001256	0.000603	No Reduct	No Reduct	0.001312	0.001312	0.001255	0.000602	No Reduct	No Reduct	0.00131
No Reduct	0.000816	0.000816	0.000779	0.000374	No Reduct	No Reduct	0.000815	0.000815	0.000778	0.000373	No Reduct	No Reduct	0.000814	0.000814	0.000777	0.000373	No Reduct	No Reduct	0.000812
No Reduct	0.000372	0.000372	0.000355	0.00017	No Reduct	No Reduct	0.000372	0.000372	0.000354	0.00017	No Reduct	No Reduct	0.000371	0.000371	0.000354	0.00017	No Reduct	No Reduct	0.000371
No Reduct	0.000552	0.000552	0.000526	0.000253	No Reduct	No Reduct	0.000551	0.000551	0.000525	0.000252	No Reduct	No Reduct	0.000551	0.000551	0.000524	0.000252	No Reduct	No Reduct	0.00055
No Reduct	0.000494	0.000494	0.000469	0.000226	No Reduct	No Reduct	0.000493	0.000493	0.000469	0.000226	No Reduct	No Reduct	0.000492	0.000492	0.000468	0.000225	No Reduct	No Reduct	0.000492
No Reduct	0.000392	0.000392	0.000361	0.000177	No Reduct	No Reduct	0.000391	0.000391	0.000361	0.000177	No Reduct	No Reduct	0.000391	0.000391	0.00036	0.000177	No Reduct	No Reduct	0.00039
No Reduct	0.000519	0.000519	0.000478	0.000234	No Reduct	No Reduct	0.000518	0.000518	0.000477	0.000234	No Reduct	No Reduct	0.000517	0.000517	0.000477	0.000234	No Reduct	No Reduct	0.000517
No Reduct	0.000456	0.000456	0.00042	0.000206	No Reduct	No Reduct	0.000455	0.000455	0.000419	0.000206	No Reduct	No Reduct	0.000455	0.000455	0.000419	0.000205	No Reduct	No Reduct	0.000454
No Reduct	0.000127	0.000127	0.000117	5.73E-05	No Reduct	No Reduct	0.000127	0.000127	0.000117	5.72E-05	No Reduct	No Reduct	0.000126	0.000126	0.000116	5.71E-05	No Reduct	No Reduct	0.000126
No Reduct	2.54E-05	2.54E-05	2.34E-05	1.15E-05	No Reduct	No Reduct	2.53E-05	2.53E-05	2.33E-05	1.14E-05	No Reduct	No Reduct	2.53E-05	2.53E-05	2.33E-05	1.14E-05	No Reduct	No Reduct	2.53E-05

0.00131	0.000944	0.000614	No Reduct	No Reduct	0.001337	0.001337	0.000943	0.000613	No Reduct	No Reduct	0.001335	0.001335	0.000941	0.000612	No Reduct	No Reduct	0.001333	0.001333	0.00094
0.000812	0.000572	0.000372	No Reduct	No Reduct	0.000811	0.000811	0.000581	0.000379	No Reduct	No Reduct	0.000825	0.000825	0.00058	0.000378	No Reduct	No Reduct	0.000823	0.000823	0.00058
0.000371	0.00026	0.00017	No Reduct	No Reduct	0.00037	0.00037	0.00026	0.000169	No Reduct	No Reduct	0.00037	0.00037	0.00026	0.000169	No Reduct	No Reduct	0.000369	0.000369	0.000259
0.00055	0.000386	0.000252	No Reduct	No Reduct	0.000549	0.000549	0.000385	0.000251	No Reduct	No Reduct	0.000548	0.000548	0.000385	0.000251	No Reduct	No Reduct	0.000547	0.000547	0.000394
0.000492	0.000345	0.000225	No Reduct	No Reduct	0.000491	0.000491	0.000344	0.000225	No Reduct	No Reduct	0.00049	0.00049	0.000343	0.000224	No Reduct	No Reduct	0.00049	0.00049	0.000343
0.00039	0.000265	0.000176	No Reduct	No Reduct	0.00039	0.00039	0.000265	0.000176	No Reduct	No Reduct	0.000389	0.000389	0.000264	0.000176	No Reduct	No Reduct	0.000388	0.000388	0.000264
0.000517	0.000351	0.000233	No Reduct	No Reduct	0.000516	0.000516	0.00035	0.000233	No Reduct	No Reduct	0.000515	0.000515	0.00035	0.000233	No Reduct	No Reduct	0.000514	0.000514	0.000349
0.000454	0.000308	0.000205	No Reduct	No Reduct	0.000453	0.000453	0.000308	0.000205	No Reduct	No Reduct	0.000453	0.000453	0.000316	0.00021	No Reduct	No Reduct	0.000465	0.000465	0.000315
0.000126	8.57E-05	5.7E-05	No Reduct	No Reduct	0.000126	0.000126	8.55E-05	5.69E-05	No Reduct	No Reduct	0.000126	0.000126	8.54E-05	5.68E-05	No Reduct	No Reduct	0.000126	0.000126	8.53E-05
2.53E-05	1.71E-05	1.14E-05	No Reduct	No Reduct	2.52E-05	2.52E-05	1.71E-05	1.14E-05	No Reduct	No Reduct	2.52E-05	2.52E-05	1.71E-05	1.14E-05	No Reduct	No Reduct	2.52E-05	2.52E-05	1.71E-05

2024						2025						2026					
PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
0.038363	0.053917	0.020293	No Reduct	No Reduct	0.038306	0.038306	0.054001	0.020324	No Reduct	No Reduct	0.038366	0.038366	0.053921	0.020294	No Reduct	No Reduct	0.038308	0.038308	0.054005
0.192859	0.26824	0.10161	No Reduct	No Reduct	0.192691	0.192691	0.268175	0.101585	No Reduct	No Reduct	0.192645	0.192645	0.26811	0.101561	No Reduct	No Reduct	0.192598	0.192598	0.267879
0.140119	0.193598	0.073629	No Reduct	No Reduct	0.140033	0.140033	0.193648	0.073648	No Reduct	No Reduct	0.140069	0.140069	0.193698	0.073667	No Reduct	No Reduct	0.140105	0.140105	0.193747
0.027461	0.037731	0.014389	No Reduct	No Reduct	0.02742	0.02742	0.037674	0.014367	No Reduct	No Reduct	0.027379	0.027379	0.037789	0.014411	No Reduct	No Reduct	0.027462	0.027462	0.037732
0.04616	0.063389	0.024258	No Reduct	No Reduct	0.046343	0.046343	0.063295	0.024222	No Reduct	No Reduct	0.046274	0.046274	0.0632	0.024185	No Reduct	No Reduct	0.046205	0.046205	0.063278
0.00131	0.001281	0.000614	No Reduct	No Reduct	0.001337	0.001337	0.001279	0.000613	No Reduct	No Reduct	0.001335	0.001335	0.001277	0.000612	No Reduct	No Reduct	0.001333	0.001333	0.001275
0.000812	0.000776	0.000372	No Reduct	No Reduct	0.000811	0.000811	0.000788	0.000379	No Reduct	No Reduct	0.000825	0.000825	0.000787	0.000378	No Reduct	No Reduct	0.000823	0.000823	0.000786
0.000371	0.000353	0.00017	No Reduct	No Reduct	0.00037	0.00037	0.000353	0.000169	No Reduct	No Reduct	0.00037	0.00037	0.000352	0.000169	No Reduct	No Reduct	0.000369	0.000369	0.000352
0.00055	0.000523	0.000252	No Reduct	No Reduct	0.000549	0.000549	0.000522	0.000251	No Reduct	No Reduct	0.000548	0.000548	0.000522	0.000251	No Reduct	No Reduct	0.000547	0.000547	0.000535
0.000492	0.000467	0.000225	No Reduct	No Reduct	0.000491	0.000491	0.000467	0.000225	No Reduct	No Reduct	0.00049	0.00049	0.000466	0.000224	No Reduct	No Reduct	0.00049	0.00049	0.000465
0.00039	0.00036	0.000176	No Reduct	No Reduct	0.00039	0.00039	0.000359	0.000176	No Reduct	No Reduct	0.000389	0.000389	0.000359	0.000176	No Reduct	No Reduct	0.000388	0.000388	0.000358
0.000517	0.000476	0.000233	No Reduct	No Reduct	0.000516	0.000516	0.000475	0.000233	No Reduct	No Reduct	0.000515	0.000515	0.000475	0.000233	No Reduct	No Reduct	0.000514	0.000514	0.000474
0.000454	0.000418	0.000205	No Reduct	No Reduct	0.000453	0.000453	0.000418	0.000205	No Reduct	No Reduct	0.000453	0.000453	0.000428	0.00021	No Reduct	No Reduct	0.000465	0.000465	0.000428
0.000126	0.000116	5.7E-05	No Reduct	No Reduct	0.000126	0.000126	0.000116	5.69E-05	No Reduct	No Reduct	0.000126	0.000126	0.000116	5.68E-05	No Reduct	No Reduct	0.000126	0.000126	0.000116
2.53E-05	2.32E-05	1.14E-05	No Reduct	No Reduct	2.52E-05	2.52E-05	2.32E-05	1.14E-05	No Reduct	No Reduct	2.52E-05	2.52E-05	2.32E-05	1.14E-05	No Reduct	No Reduct	2.52E-05	2.52E-05	2.31E-05

0.000612	No Reduct	No Reduct	0.001331	0.001331	0.000939	0.000611	No Reduct	No Reduct	0.001329	0.001329	0.000937	0.00061	No Reduct	No Reduct	0.001327	0.001327	0.000936	0.000609	No Reduct
0.000377	No Reduct	No Reduct	0.000822	0.000822	0.000579	0.000377	No Reduct	No Reduct	0.000821	0.000821	0.000578	0.000376	No Reduct	No Reduct	0.00082	0.00082	0.000577	0.000376	No Reduct
0.000169	No Reduct	No Reduct	0.000368	0.000368	0.000259	0.000169	No Reduct	No Reduct	0.000368	0.000368	0.000258	0.000168	No Reduct	No Reduct	0.000367	0.000367	0.000258	0.000168	No Reduct
0.000257	No Reduct	No Reduct	0.000561	0.000561	0.000394	0.000257	No Reduct	No Reduct	0.000561	0.000561	0.000393	0.000257	No Reduct	No Reduct	0.00056	0.00056	0.000393	0.000256	No Reduct
0.000224	No Reduct	No Reduct	0.000489	0.000489	0.000342	0.000224	No Reduct	No Reduct	0.000488	0.000488	0.000342	0.000223	No Reduct	No Reduct	0.000487	0.000487	0.000341	0.000223	No Reduct
0.000175	No Reduct	No Reduct	0.000388	0.000388	0.000264	0.000175	No Reduct	No Reduct	0.000387	0.000387	0.000263	0.000175	No Reduct	No Reduct	0.000387	0.000387	0.000263	0.000175	No Reduct
0.000232	No Reduct	No Reduct	0.000514	0.000514	0.000349	0.000232	No Reduct	No Reduct	0.000513	0.000513	0.000348	0.000232	No Reduct	No Reduct	0.000512	0.000512	0.000348	0.000231	No Reduct
0.00021	No Reduct	No Reduct	0.000464	0.000464	0.000315	0.000209	No Reduct	No Reduct	0.000463	0.000463	0.000315	0.000209	No Reduct	No Reduct	0.000463	0.000463	0.000314	0.000209	No Reduct
5.67E-05	No Reduct	No Reduct	0.000125	0.000125	8.52E-05	5.67E-05	No Reduct	No Reduct	0.000125	0.000125	8.5E-05	5.66E-05	No Reduct	No Reduct	0.000125	0.000125	8.49E-05	5.65E-05	No Reduct
1.14E-05	No Reduct	No Reduct	2.51E-05	2.51E-05	1.7E-05	1.13E-05	No Reduct	No Reduct	2.51E-05	2.51E-05	1.7E-05	1.13E-05	No Reduct	No Reduct	2.5E-05	2.5E-05	1.7E-05	1.13E-05	No Reduct

2027						2028						2029						20
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON
0.020326	No Reduct	No Reduct	0.038368	0.038368	0.053925	0.020296	No Reduct	No Reduct	0.038311	0.038311	0.054008	0.020327	No Reduct	No Reduct	0.038371	0.038371	0.053929	0.020297	No Reduct
0.101473	No Reduct	No Reduct	0.192432	0.192432	0.268148	0.101575	No Reduct	No Reduct	0.192625	0.192625	0.268083	0.101551	No Reduct	No Reduct	0.192579	0.192579	0.268185	0.101589	No Reduct
0.073686	No Reduct	No Reduct	0.140141	0.140141	0.193797	0.073705	No Reduct	No Reduct	0.140176	0.140176	0.193846	0.073723	No Reduct	No Reduct	0.140212	0.140212	0.193727	0.073678	No Reduct
0.014389	No Reduct	No Reduct	0.027421	0.027421	0.037676	0.014368	No Reduct	No Reduct	0.02738	0.02738	0.037621	0.014347	No Reduct	No Reduct	0.02734	0.02734	0.037734	0.01439	No Reduct
0.024215	No Reduct	No Reduct	0.046262	0.046262	0.063184	0.024179	No Reduct	No Reduct	0.046193	0.046193	0.063261	0.024209	No Reduct	No Reduct	0.04625	0.04625	0.063338	0.024238	No Reduct
0.000612	No Reduct	No Reduct	0.001331	0.001331	0.001273	0.000611	No Reduct	No Reduct	0.001329	0.001329	0.001271	0.00061	No Reduct	No Reduct	0.001327	0.001327	0.001269	0.000609	No Reduct
0.000377	No Reduct	No Reduct	0.000822	0.000822	0.000785	0.000377	No Reduct	No Reduct	0.000821	0.000821	0.000784	0.000376	No Reduct	No Reduct	0.00082	0.00082	0.000783	0.000376	No Reduct
0.000169	No Reduct	No Reduct	0.000368	0.000368	0.000351	0.000169	No Reduct	No Reduct	0.000368	0.000368	0.000351	0.000168	No Reduct	No Reduct	0.000367	0.000367	0.00035	0.000168	No Reduct
0.000257	No Reduct	No Reduct	0.000561	0.000561	0.000534	0.000257	No Reduct	No Reduct	0.000561	0.000561	0.000533	0.000257	No Reduct	No Reduct	0.00056	0.00056	0.000533	0.000256	No Reduct
0.000224	No Reduct	No Reduct	0.000489	0.000489	0.000465	0.000224	No Reduct	No Reduct	0.000488	0.000488	0.000464	0.000223	No Reduct	No Reduct	0.000487	0.000487	0.000463	0.000223	No Reduct
0.000175	No Reduct	No Reduct	0.000388	0.000388	0.000358	0.000175	No Reduct	No Reduct	0.000387	0.000387	0.000357	0.000175	No Reduct	No Reduct	0.000387	0.000387	0.000356	0.000175	No Reduct
0.000232	No Reduct	No Reduct	0.000514	0.000514	0.000473	0.000232	No Reduct	No Reduct	0.000513	0.000513	0.000472	0.000232	No Reduct	No Reduct	0.000512	0.000512	0.000472	0.000231	No Reduct
0.00021	No Reduct	No Reduct	0.000464	0.000464	0.000427	0.000209	No Reduct	No Reduct	0.000463	0.000463	0.000427	0.000209	No Reduct	No Reduct	0.000463	0.000463	0.000426	0.000209	No Reduct
5.67E-05	No Reduct	No Reduct	0.000125	0.000125	0.000116	5.67E-05	No Reduct	No Reduct	0.000125	0.000125	0.000115	5.66E-05	No Reduct	No Reduct	0.000125	0.000125	0.000115	5.65E-05	No Reduct
1.14E-05	No Reduct	No Reduct	2.51E-05	2.51E-05	2.31E-05	1.13E-05	No Reduct	No Reduct	2.51E-05	2.51E-05	2.31E-05	1.13E-05	No Reduct	No Reduct	2.5E-05	2.5E-05	2.3E-05	1.13E-05	No Reduct

No Reduct	0.001325	0.001325	0.000935	0.000608	No Reduct	No Reduct	0.001323	0.001323	0.000933	0.000607	No Reduct	No Reduct	0.001321	0.001321	0.000932	0.000606	No Reduct	No Reduct	0.00132
No Reduct	0.000819	0.000819	0.000576	0.000375	No Reduct	No Reduct	0.000817	0.000817	0.000575	0.000375	No Reduct	No Reduct	0.000816	0.000816	0.000575	0.000374	No Reduct	No Reduct	0.000815
No Reduct	0.000367	0.000367	0.000258	0.000168	No Reduct	No Reduct	0.000366	0.000366	0.000257	0.000168	No Reduct	No Reduct	0.000366	0.000366	0.000267	0.000174	No Reduct	No Reduct	0.00038
No Reduct	0.000559	0.000559	0.000392	0.000256	No Reduct	No Reduct	0.000558	0.000558	0.000392	0.000255	No Reduct	No Reduct	0.000557	0.000557	0.000391	0.000255	No Reduct	No Reduct	0.000557
No Reduct	0.000487	0.000487	0.000341	0.000223	No Reduct	No Reduct	0.000486	0.000486	0.00034	0.000222	No Reduct	No Reduct	0.000485	0.000485	0.00034	0.000222	No Reduct	No Reduct	0.000485
No Reduct	0.000386	0.000386	0.000271	0.00018	No Reduct	No Reduct	0.000398	0.000398	0.000271	0.00018	No Reduct	No Reduct	0.000397	0.000397	0.00027	0.00018	No Reduct	No Reduct	0.000397
No Reduct	0.000511	0.000511	0.000347	0.000231	No Reduct	No Reduct	0.000511	0.000511	0.000347	0.000231	No Reduct	No Reduct	0.00051	0.00051	0.000355	0.000236	No Reduct	No Reduct	0.000522
No Reduct	0.000462	0.000462	0.000314	0.000209	No Reduct	No Reduct	0.000461	0.000461	0.000313	0.000208	No Reduct	No Reduct	0.000461	0.000461	0.000313	0.000208	No Reduct	No Reduct	0.00046
No Reduct	0.000125	0.000125	8.48E-05	5.64E-05	No Reduct	No Reduct	0.000125	0.000125	8.47E-05	5.63E-05	No Reduct	No Reduct	0.000125	0.000125	8.46E-05	5.63E-05	No Reduct	No Reduct	0.000124
No Reduct	2.5E-05	2.5E-05	1.7E-05	1.13E-05	No Reduct	No Reduct	2.5E-05	2.5E-05	1.69E-05	1.13E-05	No Reduct	No Reduct	2.49E-05	2.49E-05	1.69E-05	1.13E-05	No Reduct	No Reduct	2.49E-05

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2031						2032						2033							
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON
No Reduct	0.038314	0.038314	0.053849	0.020267	No Reduct	No Reduct	0.038257	0.038257	0.054095	0.02036	No Reduct	No Reduct	0.038432	0.038432	0.054029	0.020335	No Reduct	No Reduct	0.038385
No Reduct	0.192652	0.192652	0.268287	0.101628	No Reduct	No Reduct	0.192725	0.192725	0.268057	0.101541	No Reduct	No Reduct	0.19256	0.19256	0.267728	0.101416	No Reduct	No Reduct	0.192324
No Reduct	0.140126	0.140126	0.193777	0.073697	No Reduct	No Reduct	0.140162	0.140162	0.193826	0.073715	No Reduct	No Reduct	0.140197	0.140197	0.193922	0.073752	No Reduct	No Reduct	0.140267
No Reduct	0.027422	0.027422	0.037678	0.014369	No Reduct	No Reduct	0.027382	0.027382	0.037791	0.014412	No Reduct	No Reduct	0.027464	0.027464	0.037745	0.014394	No Reduct	No Reduct	0.02743
No Reduct	0.046306	0.046306	0.063245	0.024202	No Reduct	No Reduct	0.046238	0.046238	0.063152	0.024167	No Reduct	No Reduct	0.04617	0.04617	0.063244	0.024202	No Reduct	No Reduct	0.046237
No Reduct	0.001325	0.001325	0.001268	0.000608	No Reduct	No Reduct	0.001323	0.001323	0.001266	0.000607	No Reduct	No Reduct	0.001321	0.001321	0.001264	0.000606	No Reduct	No Reduct	0.00132
No Reduct	0.000819	0.000819	0.000781	0.000375	No Reduct	No Reduct	0.000817	0.000817	0.00078	0.000375	No Reduct	No Reduct	0.000816	0.000816	0.000779	0.000374	No Reduct	No Reduct	0.000815
No Reduct	0.000367	0.000367	0.000349	0.000168	No Reduct	No Reduct	0.000366	0.000366	0.000349	0.000168	No Reduct	No Reduct	0.000366	0.000366	0.000362	0.000174	No Reduct	No Reduct	0.00038
No Reduct	0.000559	0.000559	0.000532	0.000256	No Reduct	No Reduct	0.000558	0.000558	0.000531	0.000255	No Reduct	No Reduct	0.000557	0.000557	0.00053	0.000255	No Reduct	No Reduct	0.000557
No Reduct	0.000487	0.000487	0.000462	0.000223	No Reduct	No Reduct	0.000486	0.000486	0.000462	0.000222	No Reduct	No Reduct	0.000485	0.000485	0.000461	0.000222	No Reduct	No Reduct	0.000485
No Reduct	0.000386	0.000386	0.000367	0.00018	No Reduct	No Reduct	0.000398	0.000398	0.000367	0.00018	No Reduct	No Reduct	0.000397	0.000397	0.000366	0.00018	No Reduct	No Reduct	0.000397
No Reduct	0.000511	0.000511	0.000471	0.000231	No Reduct	No Reduct	0.000511	0.000511	0.00047	0.000231	No Reduct	No Reduct	0.00051	0.00051	0.000481	0.000236	No Reduct	No Reduct	0.000522
No Reduct	0.000462	0.000462	0.000425	0.000209	No Reduct	No Reduct	0.000461	0.000461	0.000425	0.000208	No Reduct	No Reduct	0.000461	0.000461	0.000424	0.000208	No Reduct	No Reduct	0.00046
No Reduct	0.000125	0.000125	0.000115	5.64E-05	No Reduct	No Reduct	0.000125	0.000125	0.000115	5.63E-05	No Reduct	No Reduct	0.000125	0.000125	0.000115	5.63E-05	No Reduct	No Reduct	0.000124
No Reduct	2.5E-05	2.5E-05	2.3E-05	1.13E-05	No Reduct	No Reduct	2.5E-05	2.5E-05	2.3E-05	1.13E-05	No Reduct	No Reduct	2.49E-05	2.49E-05	2.29E-05	1.13E-05	No Reduct	No Reduct	2.49E-05

0.00132	0.000931	0.000605	No Reduct	No Reduct	0.001318	0.001318	0.000929	0.000604	No Reduct	No Reduct	0.001316	0.001316
0.000815	0.000574	0.000374	No Reduct	No Reduct	0.000814	0.000814	0.000573	0.000373	No Reduct	No Reduct	0.000813	0.000813
0.00038	0.000267	0.000174	No Reduct	No Reduct	0.000379	0.000379	0.000266	0.000174	No Reduct	No Reduct	0.000379	0.000379
0.000557	0.00039	0.000255	No Reduct	No Reduct	0.000556	0.000556	0.00039	0.000254	No Reduct	No Reduct	0.000555	0.000555
0.000485	0.00034	0.000222	No Reduct	No Reduct	0.000484	0.000484	0.000339	0.000221	No Reduct	No Reduct	0.000483	0.000483
0.000397	0.00027	0.000179	No Reduct	No Reduct	0.000396	0.000396	0.000269	0.000179	No Reduct	No Reduct	0.000396	0.000396
0.000522	0.000354	0.000236	No Reduct	No Reduct	0.000521	0.000521	0.000354	0.000235	No Reduct	No Reduct	0.00052	0.00052
0.00046	0.000312	0.000208	No Reduct	No Reduct	0.000459	0.000459	0.000312	0.000207	No Reduct	No Reduct	0.000459	0.000459
0.000124	8.44E-05	5.62E-05	No Reduct	No Reduct	0.000124	0.000124	8.43E-05	5.61E-05	No Reduct	No Reduct	0.000124	0.000124
2.49E-05	1.69E-05	1.12E-05	No Reduct	No Reduct	2.49E-05	2.49E-05	1.69E-05	1.12E-05	No Reduct	No Reduct	2.48E-05	2.48E-05

			2034						2035			
PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
0.038385	0.054112	0.020366	No Reduct	No Reduct	0.038444	0.038444	0.054032	0.020336	No Reduct	No Reduct	0.038388	0.038388
0.192324	0.26783	0.101454	No Reduct	No Reduct	0.192397	0.192397	0.267932	0.101493	No Reduct	No Reduct	0.19247	0.19247
0.140267	0.193971	0.073771	No Reduct	No Reduct	0.140302	0.140302	0.19402	0.073789	No Reduct	No Reduct	0.140338	0.140338
0.02743	0.037689	0.014373	No Reduct	No Reduct	0.02739	0.02739	0.037634	0.014352	No Reduct	No Reduct	0.027349	0.027349
0.046237	0.063151	0.024166	No Reduct	No Reduct	0.046169	0.046169	0.063228	0.024196	No Reduct	No Reduct	0.046225	0.046225
0.00132	0.001262	0.000605	No Reduct	No Reduct	0.001318	0.001318	0.00126	0.000604	No Reduct	No Reduct	0.001316	0.001316
0.000815	0.000778	0.000374	No Reduct	No Reduct	0.000814	0.000814	0.000777	0.000373	No Reduct	No Reduct	0.000813	0.000813
0.00038	0.000362	0.000174	No Reduct	No Reduct	0.000379	0.000379	0.000361	0.000174	No Reduct	No Reduct	0.000379	0.000379
0.000557	0.00053	0.000255	No Reduct	No Reduct	0.000556	0.000556	0.000529	0.000254	No Reduct	No Reduct	0.000555	0.000555
0.000485	0.000461	0.000222	No Reduct	No Reduct	0.000484	0.000484	0.00046	0.000221	No Reduct	No Reduct	0.000483	0.000483
0.000397	0.000366	0.000179	No Reduct	No Reduct	0.000396	0.000396	0.000365	0.000179	No Reduct	No Reduct	0.000396	0.000396
0.000522	0.000481	0.000236	No Reduct	No Reduct	0.000521	0.000521	0.00048	0.000235	No Reduct	No Reduct	0.00052	0.00052
0.00046	0.000424	0.000208	No Reduct	No Reduct	0.000459	0.000459	0.000423	0.000207	No Reduct	No Reduct	0.000459	0.000459
0.000124	0.000115	5.62E-05	No Reduct	No Reduct	0.000124	0.000124	0.000114	5.61E-05	No Reduct	No Reduct	0.000124	0.000124
2.49E-05	2.29E-05	1.12E-05	No Reduct	No Reduct	2.49E-05	2.49E-05	2.29E-05	1.12E-05	No Reduct	No Reduct	2.48E-05	2.48E-05

Final % Reduction

		NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
	1000	4.39%	2.24%	No Reduct	No Reduct	4.23%	4.23%
	2000	20.72%	10.64%	No Reduct	No Reduct	20.18%	20.18%
	3000	13.77%	7.10%	No Reduct	No Reduct	13.51%	13.51%
	4000	2.59%	1.34%	No Reduct	No Reduct	2.56%	2.56%
	5000	4.51%	2.34%	No Reduct	No Reduct	4.48%	4.48%
	6000	0.08%	0.06%	No Reduct	No Reduct	0.12%	0.12%
	7000	0.05%	0.04%	No Reduct	No Reduct	0.08%	0.08%
2012	8000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%
	9000	0.04%	0.03%	No Reduct	No Reduct	0.06%	0.06%
	10000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%
	11000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%
	12000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%
	13000	0.02%	0.01%	No Reduct	No Reduct	0.03%	0.03%
	14000	0.01%	0.00%	No Reduct	No Reduct	0.01%	0.01%
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	1000	3.98%	2.03%	No Reduct	No Reduct	3.83%	3.83%
	2000	19.73%	10.14%	No Reduct	No Reduct	19.23%	19.23%
	3000	14.28%	7.37%	No Reduct	No Reduct	14.01%	14.01%
	4000	2.78%	1.44%	No Reduct	No Reduct	2.74%	2.74%
	5000	4.67%	2.42%	No Reduct	No Reduct	4.63%	4.63%
	6000	0.09%	0.06%	No Reduct	No Reduct	0.13%	0.13%
	7000	0.06%	0.04%	No Reduct	No Reduct	0.08%	0.08%
2015	8000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%
	9000	0.04%	0.03%	No Reduct	No Reduct	0.06%	0.06%
	10000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%
	11000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%
	12000	0.04%	0.02%	No Reduct	No Reduct	0.05%	0.05%
	13000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	1000	3.97%	2.03%	No Reduct	No Reduct	3.83%	3.83%
	2000	19.74%	10.14%	No Reduct	No Reduct	19.23%	19.23%
	3000	14.29%	7.37%	No Reduct	No Reduct	14.02%	14.02%
	4000	2.78%	1.44%	No Reduct	No Reduct	2.74%	2.74%
	5000	4.67%	2.42%	No Reduct	No Reduct	4.63%	4.63%
	6000	0.09%	0.06%	No Reduct	No Reduct	0.13%	0.13%
	7000	0.06%	0.04%	No Reduct	No Reduct	0.08%	0.08%
2016	8000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%
	9000	0.04%	0.03%	No Reduct	No Reduct	0.06%	0.06%
	10000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%
	11000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%
	12000	0.04%	0.02%	No Reduct	No Reduct	0.05%	0.05%
	13000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	1000	3.97%	2.03%	No Reduct	No Reduct	3.82%	3.82%

Drilling Emissions in Lbs/Well Drilled

CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB
2012	001000	Construction	C.1 Well Drilling	889.3949598	52.74499254
2012	002000	Construction	C.1 Well Drilling	1165.785878	68.6565032
2012	003000	Construction	C.1 Well Drilling	1442.176795	84.56801385
2012	004000	Construction	C.1 Well Drilling	1718.567713	100.4795245
2012	005000	Construction	C.1 Well Drilling	2271.349549	132.3025458
2012	006000	Construction	C.1 Well Drilling	5143.498427	247.3684469
2012	007000	Construction	C.1 Well Drilling	6160.153671	295.8400441
2012	008000	Construction	C.1 Well Drilling	7685.136537	368.54744
2012	009000	Construction	C.1 Well Drilling	9210.119402	441.2548359
2012	010000	Construction	C.1 Well Drilling	11751.75751	562.433829
2012	011000	Construction	C.1 Well Drilling	17376.84905	812.3437041
2012	012000	Construction	C.1 Well Drilling	21706.00576	1014.177015
2012	013000	Construction	C.1 Well Drilling	26653.61343	1244.843656
2012	014000	Construction	C.1 Well Drilling	32838.12301	1533.176957
2012	015000	Construction	C.1 Well Drilling	40259.53452	1879.176919
2015	001000	Construction	C.1 Well Drilling	802.5835351	48.79234205
2015	002000	Construction	C.1 Well Drilling	1051.798768	63.53247208
2015	003000	Construction	C.1 Well Drilling	1301.014	78.27260212
2015	004000	Construction	C.1 Well Drilling	1550.229233	93.01273216
2015	005000	Construction	C.1 Well Drilling	2048.659698	122.4929922
2015	006000	Construction	C.1 Well Drilling	5123.472228	266.380754
2015	007000	Construction	C.1 Well Drilling	6137.179107	318.7425144
2015	008000	Construction	C.1 Well Drilling	7657.739424	397.285155
2015	009000	Construction	C.1 Well Drilling	9178.299741	475.8277956
2015	010000	Construction	C.1 Well Drilling	11712.56694	606.7321966
2015	011000	Construction	C.1 Well Drilling	17402.30073	885.5183604
2015	012000	Construction	C.1 Well Drilling	21739.14145	1105.754963
2015	013000	Construction	C.1 Well Drilling	26695.53085	1357.453936
2015	014000	Construction	C.1 Well Drilling	32891.01759	1672.077654
2015	015000	Construction	C.1 Well Drilling	40325.60169	2049.626115
2016	001000	Construction	C.1 Well Drilling	763.3389208	46.54759315
2016	002000	Construction	C.1 Well Drilling	1000.28455	60.61695792
2016	003000	Construction	C.1 Well Drilling	1237.23018	74.68632269
2016	004000	Construction	C.1 Well Drilling	1474.175809	88.75568746
2016	005000	Construction	C.1 Well Drilling	1948.067068	116.894417
2016	006000	Construction	C.1 Well Drilling	5042.783384	260.999804
2016	007000	Construction	C.1 Well Drilling	6040.839654	312.331865
2016	008000	Construction	C.1 Well Drilling	7537.924059	389.3299566
2016	009000	Construction	C.1 Well Drilling	9035.008464	466.3280481
2016	010000	Construction	C.1 Well Drilling	11530.14914	594.6582007
2016	011000	Construction	C.1 Well Drilling	17169.76603	870.1619411
2016	012000	Construction	C.1 Well Drilling	21449.08203	1086.617552
2016	013000	Construction	C.1 Well Drilling	26339.72888	1333.995392
2016	014000	Construction	C.1 Well Drilling	32453.03745	1643.217693
2016	015000	Construction	C.1 Well Drilling	39789.00774	2014.284454
2017	001000	Construction	C.1 Well Drilling	719.1407087	43.99990232

Amount of Drilling Emissions Reduced in Changing 250<hp<750 Engines to Tier 4i in Lbs/Well Drilled

CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB	COLB	SOXLB	COLB	SOXLB	PM10LB	PM25LB
2012	001000	Construction	C.1 Well Drilling	39.06092606	1.182571348	No Reduction	No Reduction	650.4930445	0.766405804	40.20745903	36.99086231
2012	002000	Construction	C.1 Well Drilling	241.4974544	7.307553774	No Reduction	No Reduction	855.7315035	1.008083983	52.13380846	47.96310378
2012	003000	Construction	C.1 Well Drilling	198.566742	6.006562449	No Reduction	No Reduction	1060.969963	1.249762162	64.06015789	58.93534526
2012	004000	Construction	C.1 Well Drilling	44.58494638	1.348380161	No Reduction	No Reduction	1266.208422	1.491440341	75.98650732	69.90758673
2012	005000	Construction	C.1 Well Drilling	102.5043784	3.099166353	No Reduction	No Reduction	1676.68534	1.974796699	99.83920617	91.85206968
2012	006000	Construction	C.1 Well Drilling	4.362413152	0.136480037	No Reduction	No Reduction	3961.954751	4.661204512	182.7774876	168.1552886
2012	007000	Construction	C.1 Well Drilling	3.337645062	0.104382929	No Reduction	No Reduction	4747.390168	5.585171161	218.447303	200.9715188
2012	008000	Construction	C.1 Well Drilling	2.180487378	0.068169286	No Reduction	No Reduction	5925.543293	6.971121135	271.9520261	250.195864
2012	009000	Construction	C.1 Well Drilling	3.753815704	0.117328822	No Reduction	No Reduction	7103.696418	8.357071108	325.4567491	299.4202092
2012	010000	Construction	C.1 Well Drilling	3.051977618	0.095367435	No Reduction	No Reduction	9067.284959	10.66698773	414.6312876	381.4607846
2012	011000	Construction	C.1 Well Drilling	4.401957824	0.136778827	No Reduction	No Reduction	13484.46933	15.8601023	592.2478825	544.8680519
2012	012000	Construction	C.1 Well Drilling	5.942275904	0.184614267	No Reduction	No Reduction	16846.89225	19.81478506	739.2027504	680.0665304
2012	013000	Construction	C.1 Well Drilling	5.407536547	0.167983544	No Reduction	No Reduction	20689.6613	24.3344225	907.1511709	834.5790772
2012	014000	Construction	C.1 Well Drilling	1.999454907	0.062107141	No Reduction	No Reduction	25493.12261	29.9839693	1117.086697	1027.719761
2012	015000	Construction	C.1 Well Drilling	0.408681264	0.012693604	No Reduction	No Reduction	31257.27618	36.76342545	1369.009327	1259.488581
2015	001000	Construction	C.1 Well Drilling	31.92595772	0.990840156	No Reduction	No Reduction	650.4930445	0.766405804	36.05112075	33.16703109
2015	002000	Construction	C.1 Well Drilling	207.5681466	6.441994896	No Reduction	No Reduction	855.7315035	1.008083983	46.72603737	42.98795438
2015	003000	Construction	C.1 Well Drilling	185.822912	5.767119128	No Reduction	No Reduction	1060.969963	1.249762162	57.40095398	52.80887767
2015	004000	Construction	C.1 Well Drilling	43.09510087	1.337480822	No Reduction	No Reduction	1266.208422	1.491440341	68.0758706	62.62980095
2015	005000	Construction	C.1 Well Drilling	95.67903124	2.969452858	No Reduction	No Reduction	1676.68534	1.974796699	89.42570384	82.27164753
2015	006000	Construction	C.1 Well Drilling	4.79376366	0.162133113	No Reduction	No Reduction	3961.954751	4.661204512	183.9929422	169.2735068
2015	007000	Construction	C.1 Well Drilling	3.554925868	0.120233548	No Reduction	No Reduction	4747.390168	5.585171161	219.9862565	202.387356
2015	008000	Construction	C.1 Well Drilling	2.019844239	0.068314516	No Reduction	No Reduction	5925.543293	6.971121135	273.9762279	252.0581296
2015	009000	Construction	C.1 Well Drilling	3.587243364	0.12132658	No Reduction	No Reduction	7103.696418	8.357071108	327.9661993	301.7289033
2015	010000	Construction	C.1 Well Drilling	4.088164734	0.138268575	No Reduction	No Reduction	9067.284959	10.66698773	417.9494849	384.5135261
2015	011000	Construction	C.1 Well Drilling	4.675266127	0.158125331	No Reduction	No Reduction	13484.46933	15.8601023	602.454831	554.2584445
2015	012000	Construction	C.1 Well Drilling	7.72927062	0.261416876	No Reduction	No Reduction	16846.89225	19.81478506	752.061946	691.8969903
2015	013000	Construction	C.1 Well Drilling	8.337917024	0.282002312	No Reduction	No Reduction	20689.6613	24.3344225	923.041506	849.1981855
2015	014000	Construction	C.1 Well Drilling	2.854713193	0.096551179	No Reduction	No Reduction	25493.12261	29.9839693	1136.765956	1045.82468
2015	015000	Construction	C.1 Well Drilling	0.700212669	0.023682365	No Reduction	No Reduction	31257.27618	36.76342545	1393.235296	1281.776472
2016	001000	Construction	C.1 Well Drilling	30.33425252	0.944302994	No Reduction	No Reduction	650.4930445	0.766405804	33.77182493	31.07007894
2016	002000	Construction	C.1 Well Drilling	197.4535513	6.147975069	No Reduction	No Reduction	855.7315035	1.008083983	43.76261426	40.26160512
2016	003000	Construction	C.1 Well Drilling	176.8476705	5.50708493	No Reduction	No Reduction	1060.969963	1.249762162	53.7534036	49.45313131
2016	004000	Construction	C.1 Well Drilling	40.93958751	1.274980543	No Reduction	No Reduction	1266.208422	1.491440341	63.74419293	58.64465749
2016	005000	Construction	C.1 Well Drilling	90.88936162	2.830878067	No Reduction	No Reduction	1676.68534	1.974796699	83.72577159	77.02770987
2016	006000	Construction	C.1 Well Drilling	4.713513427	0.15869793	No Reduction	No Reduction	3961.954751	4.661204512	178.7846588	164.4818861
2016	007000	Construction	C.1 Well Drilling	3.495596228	0.117696667	No Reduction	No Reduction	4747.390168	5.585171161	213.7816992	196.6791633
2016	008000	Construction	C.1 Well Drilling	1.986237864	0.06687914	No Reduction	No Reduction	5925.543293	6.971121135	266.2772598	244.975079
2016	009000	Construction	C.1 Well Drilling	3.527681529	0.118784532	No Reduction	No Reduction	7103.696418	8.357071108	318.7728203	293.2709947
2016	010000	Construction	C.1 Well Drilling	4.02043856	0.135380484	No Reduction	No Reduction	9067.284959	10.66698773	406.2654213	373.7641876
2016	011000	Construction	C.1 Well Drilling	4.608146185	0.155226607	No Reduction	No Reduction	13484.46933	15.8601023	587.6133242	540.6042583
2016	012000	Construction	C.1 Well Drilling	7.618457306	0.256633674	No Reduction	No Reduction	16846.89225	19.81478506	733.5667911	674.8814478
2016	013000	Construction	C.1 Well Drilling	8.218499084	0.276849728	No Reduction	No Reduction	20689.6613	24.3344225	900.3707532	828.3410929
2016	014000	Construction	C.1 Well Drilling	2.813861557	0.09478911	No Reduction	No Reduction	25493.12261	29.9839693	1108.875706	1020.165649
2016	015000	Construction	C.1 Well Drilling	0.69019915	0.02325056	No Reduction	No Reduction	31257.27618	36.76342545	1359.081649	1250.355117
2017	001000	Construction	C.1 Well Drilling	28.53473844	0.89127142	No Reduction	No Reduction	650.4930445	0.766405804	31.39998534	28.88798652

		Wells Drilled Each Year	Amount of Drilling Emissions Reduced in Changing 250<hp<750 Engines to Tier 4i in tons/year						
PM10LB	PM25LB		CALYEAR	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB
1.701671163	1.565537541	305	2012	5.95679122	0.18034213	No Reduction	No Reduction	0.25950485	0.23874448
10.52292897	9.681094448	1414	2012	170.7387	5.16644052	No Reduction	No Reduction	7.43971078	6.84453377
8.65343547	7.961160634	930	2012	92.333535	2.79305154	No Reduction	No Reduction	4.02384749	3.70193969
1.943168599	1.787715134	174	2012	3.87889033	0.11730907	No Reduction	No Reduction	0.16905567	0.15553122
4.468036308	4.110593543	300	2012	15.3756568	0.46487495	No Reduction	No Reduction	0.67020545	0.61658903
0.219517404	0.201956011	69	2012	0.15050325	0.00470856	No Reduction	No Reduction	0.00757335	0.00696748
0.16791263	0.154479625	44	2012	0.07342819	0.00229642	No Reduction	No Reduction	0.00369408	0.00339855
0.109672258	0.100898483	23	2012	0.0250756	0.00078395	No Reduction	No Reduction	0.00126123	0.00116033
0.188776939	0.173674775	33.00	2012	0.06193796	0.00193593	No Reduction	No Reduction	0.00311482	0.00286563
0.153455933	0.141179468	21	2012	0.03204576	0.00100136	No Reduction	No Reduction	0.00161129	0.00148238
0.220381609	0.202751085	25	2012	0.05502447	0.00170974	No Reduction	No Reduction	0.00275477	0.00253439
0.297467863	0.273670436	27	2012	0.08022072	0.00249229	No Reduction	No Reduction	0.00401582	0.00369455
0.270679388	0.249025035	20	2012	0.05407537	0.00167984	No Reduction	No Reduction	0.00270679	0.00249025
0.100078602	0.092072313	6	2012	0.00599836	0.00018632	No Reduction	No Reduction	0.00030024	0.00027622
0.020454722	0.018818345	1	2012	0.00020434	6.3468E-06	No Reduction	No Reduction	1.0227E-05	9.4092E-06
1.381954035	1.27139777	323	2015	5.15604217	0.16002069	No Reduction	No Reduction	0.22318558	0.20533074
8.984841519	8.266054025	1575	2015	163.459915	5.07307098	No Reduction	No Reduction	7.0755627	6.50951754
8.043571929	7.400086176	1128	2015	104.804122	3.25265519	No Reduction	No Reduction	4.53657457	4.1736486
1.865424104	1.716190198	218	2015	4.69736599	0.14578541	No Reduction	No Reduction	0.20333123	0.18706473
4.141583725	3.810257157	363	2015	17.3657442	0.53895569	No Reduction	No Reduction	0.75169745	0.69156167
0.243776293	0.224274188	89	2015	0.21332248	0.00721492	No Reduction	No Reduction	0.01084805	0.0099802
0.180777915	0.166315688	55	2015	0.09776046	0.00330642	No Reduction	No Reduction	0.00497139	0.00457368
0.102714717	0.094497545	25	2015	0.02524805	0.00085393	No Reduction	No Reduction	0.00128393	0.00118122
0.182421348	0.167827632	37.00	2015	0.066364	0.00224454	No Reduction	No Reduction	0.00337479	0.00310481
0.207894589	0.191263035	33.00	2015	0.06745472	0.00228143	No Reduction	No Reduction	0.00343026	0.00315584
0.237750338	0.218730317	31	2015	0.07246662	0.00245094	No Reduction	No Reduction	0.00368513	0.00339032
0.393054995	0.361610598	41	2015	0.15845005	0.00535905	No Reduction	No Reduction	0.00805763	0.00741302
0.424006378	0.390085864	36	2015	0.15008251	0.00507604	No Reduction	No Reduction	0.00763211	0.00702155
0.145170139	0.133556527	10	2015	0.01427357	0.00048276	No Reduction	No Reduction	0.00072585	0.00066778
0.03560777	0.032759149	2	2015	0.00070021	2.3682E-05	No Reduction	No Reduction	3.5608E-05	3.2759E-05
1.293277018	1.189814911	323	2016	4.89898178	0.15250493	No Reduction	No Reduction	0.20886424	0.19215511
8.417208114	7.743831304	1577	2016	155.692125	4.84767834	No Reduction	No Reduction	6.6369686	6.10601098
7.538194777	6.935139197	1130	2016	99.9189338	3.11150299	No Reduction	No Reduction	4.25908005	3.91835365
1.744966967	1.60536963	218	2016	4.46241504	0.13897288	No Reduction	No Reduction	0.1902014	0.17498529
3.873695152	3.563799661	363	2016	16.4964191	0.51380437	No Reduction	No Reduction	0.70307567	0.64682964
0.236637058	0.217706092	89	2016	0.20975135	0.00706206	No Reduction	No Reduction	0.01053035	0.00968792
0.175502194	0.161462025	55	2016	0.0961289	0.00323666	No Reduction	No Reduction	0.00482631	0.00444021
0.099727763	0.091749546	25	2016	0.02482797	0.00083599	No Reduction	No Reduction	0.0012466	0.00114687
0.17712916	0.162958819	37	2016	0.06526211	0.00219751	No Reduction	No Reduction	0.00327689	0.00301474
0.201879144	0.185728825	33	2016	0.06633724	0.00223378	No Reduction	No Reduction	0.00333101	0.00306453
0.2316597	0.21312693	31	2016	0.07142627	0.00240601	No Reduction	No Reduction	0.00359073	0.00330347
0.383002466	0.352362272	41	2016	0.15617837	0.00526099	No Reduction	No Reduction	0.00785155	0.00722343
0.413175672	0.380121614	36	2016	0.14793298	0.0049833	No Reduction	No Reduction	0.00743716	0.00684219
0.14146575	0.130148489	10	2016	0.01406931	0.00047395	No Reduction	No Reduction	0.00070733	0.00065074
0.034699887	0.031923896	2	2016	0.0006902	2.3251E-05	No Reduction	No Reduction	3.47E-05	3.1924E-05
1.200633916	1.104583253	323	2017	4.60836026	0.14394033	No Reduction	No Reduction	0.19390238	0.1783902

VERA Emissions (tons/year)	Wells Drilled Each Year	VERA Emissions (tons/year-well)	VERA Fee Reduction	Year
6.396638208	305			
183.3448516	1414			
99.15043406	930			
4.165255077	174			
16.51073716	300			
0.162785165	69			
0.079418694	44			
0.027120783	23			
0.066988704	33.00			
0.03465841	21			
0.059488978	25			
0.086728833	27			
0.058461995	20			
0.006484922	6			
0.000220915	1			
5.539248433	323	0.017149376	119.5997479	2015
175.6085491	1575	0.111497491	777.5835057	2015
112.5933521	1128	0.099816802	696.1223739	2015
5.046482631	218	0.023149003	161.4411462	2015
18.65639731	363	0.051395034	358.4289665	2015
0.231385451	89	0.002599837	18.13125998	2015
0.106038277	55	0.001927969	13.44565347	2015
0.027385918	25	0.001095437	7.639575796	2015
0.071983339	37.00	0.001945496	13.56788664	2015
0.07316641	33.00	0.002217164	15.46250138	2015
0.078602698	31	0.002535571	17.68307144	2015
0.171866721	41	0.004191871	29.23411006	2015
0.162790663	36	0.004521963	31.53616896	2015
0.015482173	10	0.001548217	10.79726714	2015
0.000759503	2	0.000379751	2.648386279	2015
5.260350954	323	0.016285916	113.57798	2016
167.1767721	1577	0.106009367	739.309327	2016
107.2895169	1130	0.094946475	662.1567174	2016
4.791589317	218	0.021979768	153.2868986	2016
17.71329917	363	0.048796967	340.3100508	2016
0.227343754	89	0.002554424	17.81455442	2016
0.104191865	55	0.001894398	13.21152848	2016
0.02691056	25	0.001076422	7.506969702	2016
0.070736512	37	0.001911798	13.33287653	2016
0.07190202	33	0.002178849	15.19529358	2016
0.077423004	31	0.002497516	17.4176783	2016
0.169290916	41	0.004129047	28.79597185	2016
0.160353441	36	0.004454262	31.06402487	2016
0.015250582	10	0.001525058	10.63575594	2016
0.00074815	2	0.000374075	2.608797647	2016
4.94620297	323	0.015313322	106.7951068	2017

Amount of Construction - Well Drilling Emissions Reduced in C

Year	NOX	ROG	CO	SOX
2015	296.35	9.20	0.00	0.00
2016	282.32	8.79	0.00	0.00
2017	266.67	8.34	0.00	0.00
2018	229.49	7.23	0.00	0.00
2019	211.98	6.77	0.00	0.00
2020	176.24	6.07	0.00	0.00
2021	169.48	5.90	0.00	0.00
2022	127.64	4.95	0.00	0.00
2023	117.40	4.75	0.00	0.00
2024	104.41	4.55	0.00	0.00
2025	97.19	4.40	0.00	0.00
2026	93.25	4.37	0.00	0.00
2027	89.19	4.32	0.00	0.00
2028	82.92	4.26	0.00	0.00
2029	80.10	4.15	0.00	0.00
2030	80.23	4.16	0.00	0.00
2031	80.38	4.17	0.00	0.00
2032	80.44	4.17	0.00	0.00
2033	80.47	4.17	0.00	0.00
2034	80.62	4.18	0.00	0.00
2035	80.79	4.19	0.00	0.00

Changing 250<hp<750 Engines to Tier 4i		
PM10	PM25	VERA Fee Reduction Per Well
12.83	11.81	$2,273.32
12.04	11.08	$2,166.22
11.23	10.33	$2,048.56
9.30	8.55	$1,775.18
8.42	7.75	$1,624.14
7.11	6.54	$1,370.28
6.60	6.07	$1,317.92
4.97	4.57	$1,020.40
4.39	4.04	$945.62
3.89	3.57	$855.14
3.49	3.21	$802.79
3.22	2.96	$740.98
2.96	2.73	$711.54
2.73	2.51	$666.98
2.63	2.42	$646.41
2.63	2.42	$646.45
2.64	2.43	$646.50
2.64	2.43	$646.38
2.64	2.43	$646.69
2.65	2.44	$646.53
2.65	2.44	$646.54
	Average:	**$1,087.84**

	2000	19.76%	10.15%	No Reduct	No Reduct	19.25%	19.25%	2017	002000	Construction	C.1 Well Drilling	942.654357	57.33159172
	3000	14.28%	7.37%	No Reduct	No Reduct	14.01%	14.01%	2017	003000	Construction	C.1 Well Drilling	1166.168005	70.66328112
	4000	2.79%	1.44%	No Reduct	No Reduct	2.75%	2.75%	2017	004000	Construction	C.1 Well Drilling	1389.681653	83.99497053
	5000	4.66%	2.42%	No Reduct	No Reduct	4.62%	4.62%	2017	005000	Construction	C.1 Well Drilling	1836.70895	110.6583493
	6000	0.09%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2017	006000	Construction	C.1 Well Drilling	4995.849988	257.5406623
	7000	0.06%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2017	007000	Construction	C.1 Well Drilling	5985.300033	308.2478279
2017	8000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2017	008000	Construction	C.1 Well Drilling	7469.4751	384.3085764
	9000	0.04%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2017	009000	Construction	C.1 Well Drilling	8953.650168	460.3693248
	10000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2017	010000	Construction	C.1 Well Drilling	11427.27528	587.1372389
	11000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2017	011000	Construction	C.1 Well Drilling	17043.46992	860.972981
	12000	0.04%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2017	012000	Construction	C.1 Well Drilling	21292.18745	1075.215018
	13000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2017	013000	Construction	C.1 Well Drilling	26147.86464	1320.06306
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2017	014000	Construction	C.1 Well Drilling	32217.46112	1626.123112
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2017	015000	Construction	C.1 Well Drilling	39500.9769	1993.395175
	1000	3.99%	2.04%	No Reduct	No Reduct	3.84%	3.84%	2018	001000	Construction	C.1 Well Drilling	618.2650511	38.07086535
	2000	19.74%	10.14%	No Reduct	No Reduct	19.24%	19.24%	2018	002000	Construction	C.1 Well Drilling	810.1939548	49.62555854
	3000	14.29%	7.37%	No Reduct	No Reduct	14.02%	14.02%	2018	003000	Construction	C.1 Well Drilling	1002.122858	61.18025173
	4000	2.78%	1.44%	No Reduct	No Reduct	2.74%	2.74%	2018	004000	Construction	C.1 Well Drilling	1194.051762	72.73494492
	5000	4.66%	2.42%	No Reduct	No Reduct	4.63%	4.63%	2018	005000	Construction	C.1 Well Drilling	1577.909569	95.84433131
	6000	0.09%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2018	006000	Construction	C.1 Well Drilling	4823.38249	244.8783498
	7000	0.06%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2018	007000	Construction	C.1 Well Drilling	5779.56332	293.1726627
2018	8000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2018	008000	Construction	C.1 Well Drilling	7213.834565	365.6141319
	9000	0.04%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2018	009000	Construction	C.1 Well Drilling	8648.10581	438.0556011
	10000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2018	010000	Construction	C.1 Well Drilling	11038.55788	558.7913832
	11000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2018	011000	Construction	C.1 Well Drilling	16557.08617	825.6487898
	12000	0.04%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2018	012000	Construction	C.1 Well Drilling	20685.73813	1031.209291
	13000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2018	013000	Construction	C.1 Well Drilling	25404.19751	1266.135578
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2018	014000	Construction	C.1 Well Drilling	31302.27173	1559.793436
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2018	015000	Construction	C.1 Well Drilling	38379.9608	1912.182867
	1000	3.98%	2.03%	No Reduct	No Reduct	3.84%	3.84%	2019	001000	Construction	C.1 Well Drilling	569.7563561	35.5442175
	2000	19.76%	10.15%	No Reduct	No Reduct	19.26%	19.26%	2019	002000	Construction	C.1 Well Drilling	746.8582133	46.37616294
	3000	14.28%	7.37%	No Reduct	No Reduct	14.01%	14.01%	2019	003000	Construction	C.1 Well Drilling	923.9600705	57.20810837
	4000	2.78%	1.44%	No Reduct	No Reduct	2.74%	2.74%	2019	004000	Construction	C.1 Well Drilling	1101.061928	68.04005381
	5000	4.67%	2.42%	No Reduct	No Reduct	4.63%	4.63%	2019	005000	Construction	C.1 Well Drilling	1455.265642	89.70394468
	6000	0.09%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2019	006000	Construction	C.1 Well Drilling	4096.004555	186.2976253
	7000	0.06%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2019	007000	Construction	C.1 Well Drilling	4907.51531	222.9474742
2019	8000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2019	008000	Construction	C.1 Well Drilling	6124.781441	277.9222474
	9000	0.04%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2019	009000	Construction	C.1 Well Drilling	7342.047572	332.8970206
	10000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2019	010000	Construction	C.1 Well Drilling	9370.824458	424.5216427
	11000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2019	011000	Construction	C.1 Well Drilling	14035.91596	622.1002856
	12000	0.04%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2019	012000	Construction	C.1 Well Drilling	17535.28226	776.8632618
	13000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2019	013000	Construction	C.1 Well Drilling	21534.55802	953.7352345
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2019	014000	Construction	C.1 Well Drilling	26533.65273	1174.8252
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2019	015000	Construction	C.1 Well Drilling	32532.56637	1440.133159
	1000	3.99%	2.04%	No Reduct	No Reduct	3.84%	3.84%	2020	001000	Construction	C.1 Well Drilling	473.7173815	31.85752448
	2000	19.76%	10.15%	No Reduct	No Reduct	19.25%	19.25%	2020	002000	Construction	C.1 Well Drilling	619.9858554	41.56484144
	3000	14.28%	7.37%	No Reduct	No Reduct	14.01%	14.01%	2020	003000	Construction	C.1 Well Drilling	766.2543294	51.27215841
	4000	2.79%	1.44%	No Reduct	No Reduct	2.75%	2.75%	2020	004000	Construction	C.1 Well Drilling	912.5228033	60.97947537
	5000	4.66%	2.42%	No Reduct	No Reduct	4.62%	4.62%	2020	005000	Construction	C.1 Well Drilling	1205.059751	80.39410929
	6000	0.09%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2020	006000	Construction	C.1 Well Drilling	4023.834188	181.5986855

855.7315035	1.008083983	40.71607697	37.45879081	2017	002000	Construction	C.1 Well Drilling	186.2679671	5.820714089	No Reduction	No Reduction
1060.969963	1.249762162	50.0321686	46.02959511	2017	003000	Construction	C.1 Well Drilling	166.5859051	5.207182383	No Reduction	No Reduction
1266.208422	1.491440341	59.34826023	54.60039941	2017	004000	Construction	C.1 Well Drilling	38.71161222	1.210298233	No Reduction	No Reduction
1676.68534	1.974796699	77.98044349	71.74200801	2017	005000	Construction	C.1 Well Drilling	85.56450096	2.675812715	No Reduction	No Reduction
3961.954751	4.661204512	174.9119482	160.9189923	2017	006000	Construction	C.1 Well Drilling	4.662597814	0.156358329	No Reduction	No Reduction
4747.390168	5.585171161	209.2039957	192.4676761	2017	007000	Construction	C.1 Well Drilling	3.458231089	0.115982383	No Reduction	No Reduction
5925.543293	6.971121135	260.6420671	239.7907017	2017	008000	Construction	C.1 Well Drilling	1.965231487	0.065916944	No Reduction	No Reduction
7103.696418	8.357071108	312.0801384	287.1137273	2017	009000	Construction	C.1 Well Drilling	3.490639993	0.117089745	No Reduction	No Reduction
9067.284959	10.66698773	397.8102572	365.9854367	2017	010000	Construction	C.1 Well Drilling	3.978554626	0.133466542	No Reduction	No Reduction
13484.46933	15.8601023	577.269724	531.0881461	2017	011000	Construction	C.1 Well Drilling	4.567347128	0.153355633	No Reduction	No Reduction
16846.89225	19.81478506	720.7242274	663.0662892	2017	012000	Construction	C.1 Well Drilling	7.55131766	0.253557452	No Reduction	No Reduction
20689.6613	24.3344225	884.6722312	813.8984527	2017	013000	Construction	C.1 Well Drilling	8.14632195	0.273544873	No Reduction	No Reduction
25493.12261	29.9839693	1089.607236	1002.438657	2017	014000	Construction	C.1 Well Drilling	2.789220313	0.093661454	No Reduction	No Reduction
31257.27618	36.76342545	1335.529242	1228.686903	2017	015000	Construction	C.1 Well Drilling	0.684168821	0.022974716	No Reduction	No Reduction
650.4930445	0.766405804	25.96951865	23.89195716	2018	001000	Construction	C.1 Well Drilling	24.64680781	0.774777456	No Reduction	No Reduction
855.7315035	1.008083983	33.66149016	30.96857094	2018	002000	Construction	C.1 Well Drilling	159.9537489	5.0339327	No Reduction	No Reduction
1060.969963	1.249762162	41.35346166	38.04518473	2018	003000	Construction	C.1 Well Drilling	143.1892863	4.509544476	No Reduction	No Reduction
1266.208422	1.491440341	49.04543317	45.12179851	2018	004000	Construction	C.1 Well Drilling	33.21193724	1.046471371	No Reduction	No Reduction
1676.68534	1.974796699	64.42937617	59.27502608	2018	005000	Construction	C.1 Well Drilling	73.5995685	2.320480033	No Reduction	No Reduction
3961.954751	4.661204512	163.1964128	150.1406998	2018	006000	Construction	C.1 Well Drilling	4.494851922	0.148446759	No Reduction	No Reduction
4747.390168	5.585171161	195.2569746	179.6364166	2018	007000	Construction	C.1 Well Drilling	3.334327322	0.110143936	No Reduction	No Reduction
5925.543293	6.971121135	243.3478172	223.8799918	2018	008000	Construction	C.1 Well Drilling	1.895112204	0.062615966	No Reduction	No Reduction
7103.696418	8.357071108	291.4386598	268.123567	2018	009000	Construction	C.1 Well Drilling	3.366441353	0.111246624	No Reduction	No Reduction
9067.284959	10.66698773	371.5900642	341.862859	2018	010000	Construction	C.1 Well Drilling	3.83742672	0.126831638	No Reduction	No Reduction
13484.46933	15.8601023	544.5728937	501.0070622	2018	011000	Construction	C.1 Well Drilling	4.430319333	0.146842131	No Reduction	No Reduction
16846.89225	19.81478506	679.9927161	625.5932988	2018	012000	Construction	C.1 Well Drilling	7.325185069	0.242813592	No Reduction	No Reduction
20689.6613	24.3344225	834.7582274	767.9775692	2018	013000	Construction	C.1 Well Drilling	7.902708127	0.261974629	No Reduction	No Reduction
25493.12261	29.9839693	1028.215117	945.9579072	2018	014000	Construction	C.1 Well Drilling	2.705904616	0.089705626	No Reduction	No Reduction
31257.27618	36.76342545	1260.363384	1159.534313	2018	015000	Construction	C.1 Well Drilling	0.663750849	0.022005503	No Reduction	No Reduction
650.4930445	0.766405804	23.45834049	21.58167325	2019	001000	Construction	C.1 Well Drilling	22.67886239	0.722269525	No Reduction	No Reduction
855.7315035	1.008083983	30.43243937	27.99784422	2019	002000	Construction	C.1 Well Drilling	147.6000131	4.709118513	No Reduction	No Reduction
1060.969963	1.249762162	37.40653826	34.4140152	2019	003000	Construction	C.1 Well Drilling	131.9386421	4.21413315	No Reduction	No Reduction
1266.208422	1.491440341	44.38063715	40.83018618	2019	004000	Construction	C.1 Well Drilling	30.57939626	0.977450992	No Reduction	No Reduction
1676.68534	1.974796699	58.32883492	53.66252813	2019	005000	Construction	C.1 Well Drilling	67.96307511	2.174505609	No Reduction	No Reduction
3961.954751	4.661204512	124.3601064	114.4112979	2019	006000	Construction	C.1 Well Drilling	3.811274451	0.112764853	No Reduction	No Reduction
4747.390168	5.585171161	148.7249189	136.8269254	2019	007000	Construction	C.1 Well Drilling	2.826968531	0.083634561	No Reduction	No Reduction
5925.543293	6.971121135	185.2721377	170.4503667	2019	008000	Construction	C.1 Well Drilling	1.606591451	0.047526029	No Reduction	No Reduction
7103.696418	8.357071108	221.8193565	204.0738079	2019	009000	Construction	C.1 Well Drilling	2.85373314	0.084413832	No Reduction	No Reduction
9067.284959	10.66698773	282.7313878	260.1128767	2019	010000	Construction	C.1 Well Drilling	3.252757331	0.096210804	No Reduction	No Reduction
13484.46933	15.8601023	411.1971285	378.3013582	2019	011000	Construction	C.1 Well Drilling	3.75005802	0.110474447	No Reduction	No Reduction
16846.89225	19.81478506	513.3623997	472.2934077	2019	012000	Construction	C.1 Well Drilling	6.200210668	0.182648818	No Reduction	No Reduction
20689.6613	24.3344225	630.1227096	579.7128928	2019	013000	Construction	C.1 Well Drilling	6.688866535	0.197039345	No Reduction	No Reduction
25493.12261	29.9839693	776.073097	713.9872492	2019	014000	Construction	C.1 Well Drilling	2.290233553	0.067463979	No Reduction	No Reduction
31257.27618	36.76342545	951.2135618	875.1164769	2019	015000	Construction	C.1 Well Drilling	0.561778343	0.016548195	No Reduction	No Reduction
650.4930445	0.766405804	19.78680255	18.20385834	2020	001000	Construction	C.1 Well Drilling	18.88568472	0.648371156	No Reduction	No Reduction
855.7315035	1.008083983	25.64783746	23.59601046	2020	002000	Construction	C.1 Well Drilling	122.4967088	4.219542247	No Reduction	No Reduction
1060.969963	1.249762162	31.50887236	28.98816257	2020	003000	Construction	C.1 Well Drilling	109.4470635	3.777849319	No Reduction	No Reduction
1266.208422	1.491440341	37.36990727	34.38031469	2020	004000	Construction	C.1 Well Drilling	25.4206436	0.878698089	No Reduction	No Reduction
1676.68534	1.974796699	49.09197709	45.16461892	2020	005000	Construction	C.1 Well Drilling	56.19354303	1.945899058	No Reduction	No Reduction
3961.954751	4.661204512	119.4004227	109.8483889	2020	006000	Construction	C.1 Well Drilling	3.738496324	0.109755484	No Reduction	No Reduction

7.839259516	7.212118604	1581	2017	147.244828	4.60127449	No Reduction	No Reduction	6.19693465	5.70117976
7.01195316	6.450996909	1131	2017	94.2043294	2.94466164	No Reduction	No Reduction	3.96525951	3.64803875
1.629619931	1.499250356	219	2017	4.23892154	0.13252766	No Reduction	No Reduction	0.17844338	0.16416791
3.602434667	3.314240006	363	2017	15.5299569	0.48566001	No Reduction	No Reduction	0.65384189	0.60153456
0.231161825	0.212668878	89	2017	0.2074856	0.00695795	No Reduction	No Reduction	0.0102867	0.00946377
0.171484998	0.157766204	55	2017	0.09510135	0.00318952	No Reduction	No Reduction	0.00471584	0.00433857
0.097469927	0.089672337	25	2017	0.02456539	0.00082396	No Reduction	No Reduction	0.00121837	0.0011209
0.173148622	0.159296724	37	2017	0.06457684	0.00216616	No Reduction	No Reduction	0.00320325	0.00294699
0.197379345	0.18158901	33	2017	0.06564615	0.0022022	No Reduction	No Reduction	0.00325676	0.00299622
0.227238423	0.209059354	31	2017	0.07079388	0.00237701	No Reduction	No Reduction	0.0035222	0.00324042
0.375729384	0.345671036	41	2017	0.15480201	0.00519793	No Reduction	No Reduction	0.00770245	0.00708626
0.405359064	0.372930336	36	2017	0.1466338	0.00492381	No Reduction	No Reduction	0.00729646	0.00671275
0.138797789	0.127693965	10	2017	0.0139461	0.00046831	No Reduction	No Reduction	0.00069399	0.00063847
0.034047094	0.031323326	2	2017	0.00068417	2.2975E-05	No Reduction	No Reduction	3.4047E-05	3.1323E-05
0.997633492	0.917822855	325	2018	4.00510627	0.12590134	No Reduction	No Reduction	0.16211544	0.14914621
6.475334116	5.957307263	1582	2018	126.523415	3.98184077	No Reduction	No Reduction	5.12198929	4.71223004
5.797142471	5.333371074	1133	2018	81.1167307	2.55465695	No Reduction	No Reduction	3.28408121	3.02135471
1.344689551	1.237114402	219	2018	3.63670713	0.11458862	No Reduction	No Reduction	0.14724351	0.13546403
2.980123194	2.741713431	364	2018	13.3951215	0.42232737	No Reduction	No Reduction	0.54238242	0.49899184
0.215353714	0.198125416	89	2018	0.20002091	0.00660588	No Reduction	No Reduction	0.00958324	0.00881658
0.159811428	0.14702652	55	2018	0.091694	0.00302896	No Reduction	No Reduction	0.00439481	0.00404323
0.090865433	0.083596203	25	2018	0.0236889	0.0007827	No Reduction	No Reduction	0.00113582	0.00104495
0.161452655	0.148536435	37	2018	0.06227917	0.00205806	No Reduction	No Reduction	0.00298687	0.00274792
0.18409201	0.169364661	33	2018	0.06331754	0.00209272	No Reduction	No Reduction	0.00303752	0.00279452
0.214044526	0.196920969	31	2018	0.06866995	0.00227605	No Reduction	No Reduction	0.00331769	0.00305228
0.353961005	0.325644128	41	2018	0.15016629	0.00497768	No Reduction	No Reduction	0.0072562	0.0066757
0.381912015	0.351359051	36	2018	0.14224875	0.00471554	No Reduction	No Reduction	0.00687442	0.00632446
0.130780102	0.120317693	10	2018	0.01352952	0.00044853	No Reduction	No Reduction	0.0006539	0.00060159
0.032082451	0.029515855	2	2018	0.00066375	2.2006E-05	No Reduction	No Reduction	3.2082E-05	2.9516E-05
0.899809372	0.82782466	325	2019	3.68531514	0.1173688	No Reduction	No Reduction	0.14621902	0.13452151
5.860145778	5.391334003	1586	2019	117.04681	3.73433098	No Reduction	No Reduction	4.6470956	4.27532786
5.240574189	4.821328255	1134	2019	74.8092101	2.3894135	No Reduction	No Reduction	2.97140556	2.73369312
1.214963118	1.117766083	219	2019	3.34844389	0.10703088	No Reduction	No Reduction	0.13303846	0.12239539
2.701289807	2.485186707	365	2019	12.4032612	0.39684727	No Reduction	No Reduction	0.49298539	0.45354657
0.16385849	0.15074981	89	2019	0.16960171	0.00501804	No Reduction	No Reduction	0.0072917	0.00670837
0.121543328	0.111819866	55	2019	0.07774163	0.00229995	No Reduction	No Reduction	0.00334244	0.00307505
0.069076045	0.063549965	25	2019	0.02008239	0.00059408	No Reduction	No Reduction	0.00086345	0.00079437
0.122699721	0.112883738	37	2019	0.05279406	0.00156166	No Reduction	No Reduction	0.00226994	0.00208835
0.13985918	0.128670454	33	2019	0.0536705	0.00158748	No Reduction	No Reduction	0.00230768	0.00212306
0.161377984	0.148467749	31	2019	0.0581259	0.00171235	No Reduction	No Reduction	0.00250136	0.00230125
0.266821807	0.245476065	41	2019	0.12710432	0.0037443	No Reduction	No Reduction	0.00546985	0.00503226
0.287855049	0.264826643	36	2019	0.1203996	0.00354671	No Reduction	No Reduction	0.00518139	0.00476688
0.0985613	0.090676395	10	2019	0.01145117	0.00033732	No Reduction	No Reduction	0.00049281	0.00045338
0.024176638	0.022242507	2	2019	0.00056178	1.6548E-05	No Reduction	No Reduction	2.4177E-05	2.2243E-05
0.760169035	0.699355544	326	2020	3.07836661	0.1056845	No Reduction	No Reduction	0.12390755	0.11399495
4.937610309	4.542601389	1588	2020	97.2623868	3.35031654	No Reduction	No Reduction	3.92046259	3.6068255
4.415466372	4.062229063	1136	2020	62.1659321	2.14581841	No Reduction	No Reduction	2.5079849	2.30734611
1.026165092	0.944071897	220	2020	2.7962708	0.09665679	No Reduction	No Reduction	0.11287816	0.10384791
2.27010262	2.088494482	365	2020	10.2553216	0.35512658	No Reduction	No Reduction	0.41429373	0.38115024
0.157087207	0.14452023	89	2020	0.16636309	0.00488412	No Reduction	No Reduction	0.00699038	0.00643115

158.0430372	1581	0.09996397	697.1487294	2017
101.1142505	1131	0.08940252	623.4931769	2017
4.549892577	219	0.020775765	144.8901864	2017
16.66945882	363	0.045921374	320.2556635	2017
0.22473025	89	0.002525059	17.60976135	2017
0.103006708	55	0.001872849	13.06125056	2017
0.026607729	25	0.001064309	7.422492214	2017
0.06994625	37	0.001890439	13.18392284	2017
0.071105108	33	0.0021547	15.02687959	2017
0.076693088	31	0.002473971	17.25347091	2017
0.167702392	41	0.004090302	28.52576788	2017
0.158854066	36	0.004412613	30.77356267	2017
0.015108398	10	0.00151084	10.53659661	2017
0.000741191	2	0.000370595	2.584531732	2017
4.293123049	325	0.013209609	92.12381582	2018
135.6272455	1582	0.085731508	597.8915359	2018
86.95546884	1133	0.076747987	535.2404587	2018
3.898539249	219	0.017801549	124.1480033	2018
14.35983125	364	0.039450086	275.1248988	2018
0.216210032	89	0.002429326	16.9421209	2018
0.099117774	55	0.001802141	12.56813373	2018
0.02560742	25	0.001024297	7.143445894	2018
0.067324102	37	0.00181957	12.68968338	2018
0.068447781	33	0.002074175	14.46529773	2018
0.074263693	31	0.002395603	16.70693529	2018
0.162400173	41	0.00396098	27.62387336	2018
0.153838706	36	0.004273297	29.80197597	2018
0.014631952	10	0.001463195	10.20432313	2018
0.000717839	2	0.000358919	2.503103905	2018
3.948902958	325	0.012150471	84.73738225	2019
125.428237	1586	0.079084639	551.5362704	2019
80.17002911	1134	0.070696675	493.0386094	2019
3.588513235	219	0.016385905	114.2753028	2019
13.29309387	365	0.036419435	253.9891415	2019
0.181911452	89	0.002043949	14.25449961	2019
0.083384027	55	0.001516073	10.57309457	2019
0.021539919	25	0.000861597	6.008775825	2019
0.056625664	37	0.001530423	10.67317242	2019
0.057565651	33	0.001744414	12.16554084	2019
0.062339612	31	0.002010955	14.02440174	2019
0.136318467	41	0.003324841	23.18743867	2019
0.129127697	36	0.00358688	25.01490436	2019
0.012281294	10	0.001228129	8.564974549	2019
0.000602503	2	0.000301252	2.100928576	2019
3.30795866	326	0.010147112	70.76596226	2020
104.5331659	1588	0.065826931	459.0770147	2020
66.81973539	1136	0.05882019	410.2120023	2020
3.005805746	220	0.013662753	95.28404215	2020
11.02474191	365	0.030204772	210.6480824	2020
0.178237586	89	0.00200267	13.96661714	2020

	7000	0.06%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2020	007000	Construction	C.1 Well Drilling	4821.618634	217.3713079
2020	8000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2020	008000	Construction	C.1 Well Drilling	6018.295302	271.0302415
	9000	0.04%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2020	009000	Construction	C.1 Well Drilling	7214.971971	324.6891751
	10000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2020	010000	Construction	C.1 Well Drilling	9209.433085	414.1207311
	11000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2020	011000	Construction	C.1 Well Drilling	13837.57353	609.3806479
	12000	0.04%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2020	012000	Construction	C.1 Well Drilling	17288.23892	761.0419164
	13000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2020	013000	Construction	C.1 Well Drilling	21231.85651	934.3690805
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2020	014000	Construction	C.1 Well Drilling	26161.3785	1151.028036
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2020	015000	Construction	C.1 Well Drilling	32076.80488	1411.018782
	1000	3.98%	2.03%	No Reduct	No Reduct	3.84%	3.84%	2021	001000	Construction	C.1 Well Drilling	454.0675786	30.83737278
	2000	19.75%	10.15%	No Reduct	No Reduct	19.25%	19.25%	2021	002000	Construction	C.1 Well Drilling	594.768133	40.29517785
	3000	14.30%	7.38%	No Reduct	No Reduct	14.03%	14.03%	2021	003000	Construction	C.1 Well Drilling	735.4686874	49.75298292
	4000	2.78%	1.44%	No Reduct	No Reduct	2.74%	2.74%	2021	004000	Construction	C.1 Well Drilling	876.1692418	59.21078799
	5000	4.67%	2.42%	No Reduct	No Reduct	4.63%	4.63%	2021	005000	Construction	C.1 Well Drilling	1157.570351	78.12639812
	6000	0.09%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2021	006000	Construction	C.1 Well Drilling	3979.529499	180.8457994
	7000	0.06%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2021	007000	Construction	C.1 Well Drilling	4769.042215	216.5221677
2021	8000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2021	008000	Construction	C.1 Well Drilling	5953.31129	270.0367203
	9000	0.04%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2021	009000	Construction	C.1 Well Drilling	7137.580365	323.5512728
	10000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2021	010000	Construction	C.1 Well Drilling	9111.362157	412.7421937
	11000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2021	011000	Construction	C.1 Well Drilling	13724.00099	609.9411943
	12000	0.04%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2021	012000	Construction	C.1 Well Drilling	17147.00976	761.8105034
	13000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2021	013000	Construction	C.1 Well Drilling	21059.01979	935.3754282
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2021	014000	Construction	C.1 Well Drilling	25949.03232	1152.331584
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2021	015000	Construction	C.1 Well Drilling	31817.04735	1412.678971
	1000	3.97%	2.03%	No Reduct	No Reduct	3.83%	3.83%	2022	001000	Construction	C.1 Well Drilling	341.9227276	25.77051109
	2000	19.79%	10.17%	No Reduct	No Reduct	19.28%	19.28%	2022	002000	Construction	C.1 Well Drilling	446.6023834	33.65855547
	3000	14.29%	7.37%	No Reduct	No Reduct	14.02%	14.02%	2022	003000	Construction	C.1 Well Drilling	551.2820392	41.54659984
	4000	2.78%	1.44%	No Reduct	No Reduct	2.74%	2.74%	2022	004000	Construction	C.1 Well Drilling	655.961695	49.43464421
	5000	4.66%	2.42%	No Reduct	No Reduct	4.62%	4.62%	2022	005000	Construction	C.1 Well Drilling	865.3210066	65.21073296
	6000	0.09%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2022	006000	Construction	C.1 Well Drilling	3920.329107	178.9607315
	7000	0.06%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2022	007000	Construction	C.1 Well Drilling	4698.818176	214.3316023
2022	8000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2022	008000	Construction	C.1 Well Drilling	5866.55178	267.3879083
	9000	0.04%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2022	009000	Construction	C.1 Well Drilling	7034.285384	320.4442144
	10000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2022	010000	Construction	C.1 Well Drilling	8980.508058	408.8713912
	11000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2022	011000	Construction	C.1 Well Drilling	13571.14572	607.5116973
	12000	0.04%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2022	012000	Construction	C.1 Well Drilling	16956.96121	758.8630271
	13000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2022	013000	Construction	C.1 Well Drilling	20826.46463	931.8359755
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2022	014000	Construction	C.1 Well Drilling	25663.3439	1148.052161
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2022	015000	Construction	C.1 Well Drilling	31467.59903	1407.511583
	1000	3.98%	2.03%	No Reduct	No Reduct	3.84%	3.84%	2023	001000	Construction	C.1 Well Drilling	313.9175079	24.67658143
	2000	19.79%	10.17%	No Reduct	No Reduct	19.29%	19.29%	2023	002000	Construction	C.1 Well Drilling	410.0209101	32.26580395
	3000	14.28%	7.37%	No Reduct	No Reduct	14.01%	14.01%	2023	003000	Construction	C.1 Well Drilling	506.1243122	39.85502648
	4000	2.79%	1.44%	No Reduct	No Reduct	2.75%	2.75%	2023	004000	Construction	C.1 Well Drilling	602.2277144	47.444249
	5000	4.65%	2.42%	No Reduct	No Reduct	4.62%	4.62%	2023	005000	Construction	C.1 Well Drilling	794.4345188	62.62269405
	6000	0.09%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2023	006000	Construction	C.1 Well Drilling	3880.922951	178.4587114
	7000	0.06%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2023	007000	Construction	C.1 Well Drilling	4651.986081	213.7686709
2023	8000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2023	008000	Construction	C.1 Well Drilling	5808.580775	266.7336101
	9000	0.04%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2023	009000	Construction	C.1 Well Drilling	6965.17547	319.6985494
	10000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2023	010000	Construction	C.1 Well Drilling	8892.833295	407.9734481
	11000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2023	011000	Construction	C.1 Well Drilling	13468.3814	608.4672392

4747.390168	5.585171161	142.8397677	131.4125863	2020	007000	Construction	C.1 Well Drilling	2.77331536	0.081420269	No Reduction	No Reduction
5925.543293	6.971121135	177.9987851	163.7588823	2020	008000	Construction	C.1 Well Drilling	1.576287526	0.046277838	No Reduction	No Reduction
7103.696418	8.357071108	213.1578026	196.1051784	2020	009000	Construction	C.1 Well Drilling	2.800128113	0.082208857	No Reduction	No Reduction
9067.284959	10.66698773	271.756165	250.0156718	2020	010000	Construction	C.1 Well Drilling	3.191933595	0.093712617	No Reduction	No Reduction
13484.46933	15.8601023	397.7571575	365.9365849	2020	011000	Construction	C.1 Well Drilling	3.691511778	0.108053088	No Reduction	No Reduction
16846.89225	19.81478506	496.6455224	456.9138806	2020	012000	Construction	C.1 Well Drilling	6.103676814	0.178660255	No Reduction	No Reduction
20689.6613	24.3344225	609.6607966	560.8879329	2020	013000	Construction	C.1 Well Drilling	6.584937046	0.192748353	No Reduction	No Reduction
25493.12261	29.9839693	750.9298894	690.8554982	2020	014000	Construction	C.1 Well Drilling	2.254708725	0.065998139	No Reduction	No Reduction
31257.27618	36.76342545	920.4528007	846.8165766	2020	015000	Construction	C.1 Well Drilling	0.55307606	0.016189292	No Reduction	No Reduction
650.4930445	0.766405804	18.29023578	16.82701692	2021	001000	Construction	C.1 Well Drilling	18.07515282	0.626667398	No Reduction	No Reduction
855.7315035	1.008083983	23.74861487	21.84872568	2021	002000	Construction	C.1 Well Drilling	117.4857046	4.089657928	No Reduction	No Reduction
1060.969963	1.249762162	29.20699396	26.87043444	2021	003000	Construction	C.1 Well Drilling	105.1692609	3.670080729	No Reduction	No Reduction
1266.208422	1.491440341	34.66537304	31.8921432	2021	004000	Construction	C.1 Well Drilling	24.3713108	0.851931955	No Reduction	No Reduction
1676.68534	1.974796699	45.58213122	41.93556072	2021	005000	Construction	C.1 Well Drilling	54.04574635	1.893346811	No Reduction	No Reduction
3961.954751	4.661204512	115.4316973	106.1971615	2021	006000	Construction	C.1 Well Drilling	3.691787365	0.1091365	No Reduction	No Reduction
4747.390168	5.585171161	138.135017	127.0842157	2021	007000	Construction	C.1 Well Drilling	2.738959661	0.080980556	No Reduction	No Reduction
5925.543293	6.971121135	172.1899967	158.4147969	2021	008000	Construction	C.1 Well Drilling	1.556928276	0.046039034	No Reduction	No Reduction
7103.696418	8.357071108	206.2449763	189.7453782	2021	009000	Construction	C.1 Well Drilling	2.765937319	0.081797867	No Reduction	No Reduction
9067.284959	10.66698773	263.0032757	241.9630136	2021	010000	Construction	C.1 Well Drilling	3.153205892	0.093260563	No Reduction	No Reduction
13484.46933	15.8601023	387.1571718	356.184598	2021	011000	Construction	C.1 Well Drilling	3.655721703	0.107990254	No Reduction	No Reduction
16846.89225	19.81478506	483.4676901	444.7902749	2021	012000	Construction	C.1 Well Drilling	6.044734616	0.178572425	No Reduction	No Reduction
20689.6613	24.3344225	593.5368539	546.0539056	2021	013000	Construction	C.1 Well Drilling	6.521535741	0.192666516	No Reduction	No Reduction
25493.12261	29.9839693	731.1233086	672.6334439	2021	014000	Construction	C.1 Well Drilling	2.233053137	0.065973773	No Reduction	No Reduction
31257.27618	36.76342545	896.2270543	824.5288899	2021	015000	Construction	C.1 Well Drilling	0.547774361	0.016184028	No Reduction	No Reduction
650.4930445	0.766405804	13.75387874	12.65356844	2022	001000	Construction	C.1 Well Drilling	13.59059592	0.522915853	No Reduction	No Reduction
855.7315035	1.008083983	17.82438787	16.39843684	2022	002000	Construction	C.1 Well Drilling	88.36310749	3.421700471	No Reduction	No Reduction
1060.969963	1.249762162	21.89489701	20.14330525	2022	003000	Construction	C.1 Well Drilling	78.78229924	3.062824795	No Reduction	No Reduction
1266.208422	1.491440341	25.96540614	23.88817365	2022	004000	Construction	C.1 Well Drilling	18.21874305	0.71020631	No Reduction	No Reduction
1676.68534	1.974796699	34.10642441	31.37791045	2022	005000	Construction	C.1 Well Drilling	40.34042018	1.57797638	No Reduction	No Reduction
3961.954751	4.661204512	110.3747683	101.5447868	2022	006000	Construction	C.1 Well Drilling	3.631420361	0.107837147	No Reduction	No Reduction
4747.390168	5.585171161	132.1412517	121.5699516	2022	007000	Construction	C.1 Well Drilling	2.694586662	0.08004121	No Reduction	No Reduction
5925.543293	6.971121135	164.7909768	151.6076987	2022	008000	Construction	C.1 Well Drilling	1.531940751	0.045519154	No Reduction	No Reduction
7103.696418	8.357071108	197.4407019	181.6454457	2022	009000	Construction	C.1 Well Drilling	2.721825967	0.080891027	No Reduction	No Reduction
9067.284959	10.66698773	251.8569104	231.7083575	2022	010000	Construction	C.1 Well Drilling	3.103265787	0.09224757	No Reduction	No Reduction
13484.46933	15.8601023	373.7364222	343.8375084	2022	011000	Construction	C.1 Well Drilling	3.609590594	0.107399012	No Reduction	No Reduction
16846.89225	19.81478506	466.7849399	429.4421447	2022	012000	Construction	C.1 Well Drilling	5.968784738	0.177615099	No Reduction	No Reduction
20689.6613	24.3344225	573.126103	527.2760147	2022	013000	Construction	C.1 Well Drilling	6.439858509	0.191649992	No Reduction	No Reduction
25493.12261	29.9839693	706.0525568	649.5683523	2022	014000	Construction	C.1 Well Drilling	2.205160379	0.06563032	No Reduction	No Reduction
31257.27618	36.76342545	865.5643015	796.3191573	2022	015000	Construction	C.1 Well Drilling	0.540946706	0.016100678	No Reduction	No Reduction
650.4930445	0.766405804	12.11604117	11.14675788	2023	001000	Construction	C.1 Well Drilling	12.49701359	0.501503472	No Reduction	No Reduction
855.7315035	1.008083983	15.71365812	14.45656547	2023	002000	Construction	C.1 Well Drilling	81.15626608	3.281369334	No Reduction	No Reduction
1060.969963	1.249762162	19.31127507	17.76637307	2023	003000	Construction	C.1 Well Drilling	72.28410721	2.936301066	No Reduction	No Reduction
1266.208422	1.491440341	22.90889202	21.07618066	2023	004000	Construction	C.1 Well Drilling	16.77723094	0.683685397	No Reduction	No Reduction
1676.68534	1.974796699	30.10412592	27.69579585	2023	005000	Construction	C.1 Well Drilling	36.98037387	1.513084507	No Reduction	No Reduction
3961.954751	4.661204512	106.7825202	98.23991859	2023	006000	Construction	C.1 Well Drilling	3.589541994	0.107373823	No Reduction	No Reduction
4747.390168	5.585171161	127.8743862	117.6444353	2023	007000	Construction	C.1 Well Drilling	2.663740678	0.079711597	No Reduction	No Reduction
5925.543293	6.971121135	159.5121851	146.7512103	2023	008000	Construction	C.1 Well Drilling	1.514534304	0.045339861	No Reduction	No Reduction
7103.696418	8.357071108	191.1499841	175.8579854	2023	009000	Construction	C.1 Well Drilling	2.691054241	0.080582104	No Reduction	No Reduction
9067.284959	10.66698773	243.879649	224.3692771	2023	010000	Construction	C.1 Well Drilling	3.068373606	0.091907326	No Reduction	No Reduction
13484.46933	15.8601023	363.9836776	334.8649834	2023	011000	Construction	C.1 Well Drilling	3.576900501	0.107407068	No Reduction	No Reduction

0.116558408	0.10723374	55	2020	0.07626617	0.00223906	No Reduction	No Reduction	0.00320536	0.00294893
0.066264585	0.060963421	25	2020	0.01970359	0.00057847	No Reduction	No Reduction	0.00082831	0.00076204
0.117731441	0.10831292	37	2020	0.05180237	0.00152086	No Reduction	No Reduction	0.00217803	0.00200379
0.134228101	0.123489862	33	2020	0.0526669	0.00154626	No Reduction	No Reduction	0.00221476	0.00203758
0.15586884	0.143399337	31	2020	0.05721843	0.00167482	No Reduction	No Reduction	0.00241597	0.00222269
0.257745374	0.237125746	41	2020	0.12512537	0.00366254	No Reduction	No Reduction	0.00528378	0.00486108
0.278089171	0.255842035	36	2020	0.11852887	0.00346947	No Reduction	No Reduction	0.00500561	0.00460516
0.095224845	0.087606857	10	2020	0.01127354	0.00032999	No Reduction	No Reduction	0.00047612	0.00043803
0.023359658	0.021490886	2	2020	0.00055308	1.6189E-05	No Reduction	No Reduction	2.336E-05	2.1491E-05
0.701619948	0.645490382	326	2021	2.94624991	0.10214679	No Reduction	No Reduction	0.11436405	0.10521493
4.570871777	4.205201947	1590	2021	93.4011352	3.25127805	No Reduction	No Reduction	3.63384306	3.34313555
4.097547939	3.769744105	1139	2021	59.8938941	2.09011098	No Reduction	No Reduction	2.33355355	2.14686927
0.950471642	0.874433922	220	2021	2.68084419	0.09371252	No Reduction	No Reduction	0.10455188	0.09618773
2.110405375	1.941573011	366	2021	9.89037158	0.34648247	No Reduction	No Reduction	0.38620418	0.35530786
0.15163802	0.139506977	89	2021	0.16428454	0.00485657	No Reduction	No Reduction	0.00674789	0.00620806
0.112550215	0.103546201	55	2021	0.07532139	0.00222697	No Reduction	No Reduction	0.00309513	0.00284752
0.064005962	0.058885488	25	2021	0.0194616	0.00057549	No Reduction	No Reduction	0.00080007	0.00073607
0.113742474	0.104643071	37	2021	0.05116984	0.00151326	No Reduction	No Reduction	0.00210424	0.0019359
0.129709943	0.119333156	33	2021	0.0520279	0.0015388	No Reduction	No Reduction	0.00214021	0.001969
0.151487458	0.139368465	31	2021	0.05666369	0.00167385	No Reduction	No Reduction	0.00234806	0.00216021
0.250530081	0.230487677	41	2021	0.12391706	0.00366073	No Reduction	No Reduction	0.00513587	0.004725
0.270328334	0.248702065	36	2021	0.11738764	0.003468	No Reduction	No Reduction	0.00486591	0.00447664
0.092574118	0.085168188	10	2021	0.01116527	0.00032987	No Reduction	No Reduction	0.00046287	0.00042584
0.022710729	0.020893871	2	2021	0.00054777	1.6184E-05	No Reduction	No Reduction	2.2711E-05	2.0894E-05
0.526813459	0.484668404	326	2022	2.21526714	0.08523528	No Reduction	No Reduction	0.08587059	0.07900095
3.436275594	3.16137348	1595	2022	70.4695782	2.72880613	No Reduction	No Reduction	2.74042979	2.52119535
3.069801279	2.824217178	1140	2022	44.9059106	1.74581013	No Reduction	No Reduction	1.74978673	1.60980379
0.710865524	0.653996291	220	2022	2.00406174	0.07812269	No Reduction	No Reduction	0.07819521	0.07193959
1.576726967	1.450588859	366	2022	7.38229689	0.28876968	No Reduction	No Reduction	0.28854104	0.26545776
0.144777767	0.133195545	89	2022	0.16159821	0.00479875	No Reduction	No Reduction	0.00644261	0.0059272
0.107505332	0.098904909	55	2022	0.07410113	0.00220113	No Reduction	No Reduction	0.0029564	0.00271988
0.061163874	0.056270767	25	2022	0.01914926	0.00056899	No Reduction	No Reduction	0.00076455	0.00070338
0.108723901	0.100025984	37	2022	0.05035378	0.00149648	No Reduction	No Reduction	0.00201139	0.00185048
0.124026654	0.11410453	33	2022	0.05120389	0.00152208	No Reduction	No Reduction	0.00204644	0.00188272
0.146017141	0.134335773	31	2022	0.05594865	0.00166468	No Reduction	No Reduction	0.00226327	0.0020822
0.241522895	0.222201065	41	2022	0.12236009	0.00364111	No Reduction	No Reduction	0.00495122	0.00455512
0.260641228	0.239789927	36	2022	0.11591745	0.0034497	No Reduction	No Reduction	0.00469154	0.00431622
0.089265785	0.082124522	10	2022	0.0110258	0.00032815	No Reduction	No Reduction	0.00044633	0.00041062
0.021900872	0.020148802	2	2022	0.00054095	1.6101E-05	No Reduction	No Reduction	2.1901E-05	2.0149E-05
0.464806919	0.427622385	327	2023	2.04326172	0.08199582	No Reduction	No Reduction	0.07599593	0.06991626
3.030517328	2.788075884	1598	2023	64.8438566	2.6218141	No Reduction	No Reduction	2.42138335	2.22767263
2.705883659	2.489412966	1141	2023	41.2380832	1.67515976	No Reduction	No Reduction	1.54370663	1.4202101
0.629094707	0.578767138	221	2023	1.85388402	0.07554724	No Reduction	No Reduction	0.06951497	0.06395377
1.389620928	1.278451298	366	2023	6.76740842	0.27689446	No Reduction	No Reduction	0.25430063	0.23395659
0.139856371	0.128667861	89	2023	0.15973462	0.00477814	No Reduction	No Reduction	0.00622361	0.00572572
0.103878381	0.095568114	55	2023	0.07325287	0.00219207	No Reduction	No Reduction	0.00285666	0.00262812
0.059116055	0.054386773	25	2023	0.01893168	0.00056675	No Reduction	No Reduction	0.00073895	0.00067983
0.105102398	0.096694202	37	2023	0.0497845	0.00149077	No Reduction	No Reduction	0.00194439	0.00178884
0.119918652	0.110325168	33	2023	0.05062816	0.00151647	No Reduction	No Reduction	0.00197866	0.00182037
0.141994115	0.130634589	31	2023	0.05544196	0.00166481	No Reduction	No Reduction	0.00220091	0.00202484

0.081710586	55	0.001485647	10.36090231	2020
0.021110374	25	0.000844415	5.88895003	2020
0.055501266	37	0.001500034	10.46123855	2020
0.056427926	33	0.001709937	11.92510173	2020
0.061309222	31	0.001977717	13.79259734	2020
0.13407169	41	0.003270041	22.80526748	2020
0.127003942	36	0.003527887	24.60348593	2020
0.012079659	10	0.001207966	8.424353871	2020
0.000592625	2	0.000296313	2.06648341	2020
3.162760747	326	0.00970172	67.65979587	2021
100.2862563	1590	0.063073117	439.8719191	2021
64.3175586	1139	0.056468445	393.8109339	2021
2.879108583	220	0.013086857	91.26774209	2021
10.62305823	366	0.029024749	202.4186014	2021
0.175889004	89	0.001976281	13.78258329	2021
0.080643487	55	0.001466245	10.22559413	2021
0.020837166	25	0.000833487	5.812735798	2021
0.054787337	37	0.001480739	10.3266726	2021
0.055706911	33	0.001688088	11.7727271	2021
0.060685591	31	0.0019576	13.65230036	2021
0.132713661	41	0.003236919	22.57427005	2021
0.125721551	36	0.003492265	24.35505817	2021
0.011958005	10	0.001195801	8.339512784	2021
0.000586669	2	0.000293335	2.045715216	2021
2.386373013	326	0.007320163	51.05081409	2022
75.93881413	1595	0.047610542	332.0359183	2022
48.40150743	1140	0.042457463	296.0983446	2022
2.160379638	220	0.009819907	68.48403451	2022
7.959607605	366	0.021747562	151.6674957	2022
0.17283957	89	0.001942018	13.543631	2022
0.079258663	55	0.001441067	10.04999848	2022
0.020482797	25	0.000819312	5.713881119	2022
0.053861657	37	0.00145572	10.1521944	2022
0.05477241	33	0.00165977	11.57523602	2022
0.059876605	31	0.001931503	13.47030453	2022
0.130952416	41	0.003193961	22.27468657	2022
0.124058695	36	0.003446075	24.03292611	2022
0.011800282	10	0.001180028	8.22951696	2022
0.000578948	2	0.000289474	2.01879257	2022
2.20125347	327	0.006731662	46.94661071	2023
69.88705404	1598	0.043734076	305.0014486	2023
44.45694955	1141	0.038963146	271.72898	2023
1.99894622	221	0.009045006	63.07986851	2023
7.298603513	366	0.01994154	139.0722975	2023
0.170736362	89	0.001918386	13.37882462	2023
0.078301593	55	0.001423665	9.928641996	2023
0.020237378	25	0.000809495	5.645418896	2023
0.053219667	37	0.001438369	10.031188	2023
0.054123293	33	0.0016401	11.43805595	2023
0.059307676	31	0.001913151	13.34231397	2023

	12000	0.04%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2023	012000	Construction	C.1 Well Drilling	16829.07493	760.1068205
	13000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2023	013000	Construction	C.1 Well Drilling	20669.86753	933.4091991
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2023	014000	Construction	C.1 Well Drilling	25470.85828	1150.037172
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2023	015000	Construction	C.1 Well Drilling	31232.04718	1409.99074
	1000	3.98%	2.03%	No Reduct	No Reduct	3.83%	3.83%	2024	001000	Construction	C.1 Well Drilling	279.1916833	23.5733669
	2000	19.78%	10.16%	No Reduct	No Reduct	19.27%	19.27%	2024	002000	Construction	C.1 Well Drilling	364.3215201	30.8390318
	3000	14.27%	7.36%	No Reduct	No Reduct	14.00%	14.00%	2024	003000	Construction	C.1 Well Drilling	449.451357	38.1046967
	4000	2.78%	1.44%	No Reduct	No Reduct	2.74%	2.74%	2024	004000	Construction	C.1 Well Drilling	534.5811938	45.3703616
	5000	4.67%	2.43%	No Reduct	No Reduct	4.63%	4.63%	2024	005000	Construction	C.1 Well Drilling	704.8408675	59.9016914
	6000	0.09%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2024	006000	Construction	C.1 Well Drilling	3872.359814	180.2189412
	7000	0.06%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2024	007000	Construction	C.1 Well Drilling	4642.071342	215.9074549
2024	8000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2024	008000	Construction	C.1 Well Drilling	5796.638635	269.4402256
	9000	0.04%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2024	009000	Construction	C.1 Well Drilling	6951.205927	322.9729963
	10000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2024	010000	Construction	C.1 Well Drilling	8875.484748	412.1942808
	11000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2024	011000	Construction	C.1 Well Drilling	13456.8761	615.976267
	12000	0.04%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2024	012000	Construction	C.1 Well Drilling	16815.14459	769.5262407
	13000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2024	013000	Construction	C.1 Well Drilling	20653.16571	945.0119249
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2024	014000	Construction	C.1 Well Drilling	25450.69211	1164.36903
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2024	015000	Construction	C.1 Well Drilling	31207.7238	1427.597556
	1000	3.98%	2.03%	No Reduct	No Reduct	3.84%	3.84%	2025	001000	Construction	C.1 Well Drilling	259.2889181	22.75828312
	2000	19.77%	10.16%	No Reduct	No Reduct	19.26%	19.26%	2025	002000	Construction	C.1 Well Drilling	338.491929	29.80596118
	3000	14.28%	7.36%	No Reduct	No Reduct	14.01%	14.01%	2025	003000	Construction	C.1 Well Drilling	417.6949398	36.85363923
	4000	2.78%	1.44%	No Reduct	No Reduct	2.74%	2.74%	2025	004000	Construction	C.1 Well Drilling	496.8979507	43.90131728
	5000	4.67%	2.42%	No Reduct	No Reduct	4.63%	4.63%	2025	005000	Construction	C.1 Well Drilling	655.3039724	57.99667339
	6000	0.09%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2025	006000	Construction	C.1 Well Drilling	3854.5428	181.183546
	7000	0.06%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2025	007000	Construction	C.1 Well Drilling	4621.115383	217.0972054
2025	8000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2025	008000	Construction	C.1 Well Drilling	5770.974257	270.9676945
	9000	0.04%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2025	009000	Construction	C.1 Well Drilling	6920.833131	324.8381836
	10000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2025	010000	Construction	C.1 Well Drilling	8837.264589	414.6223321
	11000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2025	011000	Construction	C.1 Well Drilling	13418.10925	621.1381394
	12000	0.04%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2025	012000	Construction	C.1 Well Drilling	16767.21659	776.018862
	13000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2025	013000	Construction	C.1 Well Drilling	20594.76783	953.0254021
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2025	014000	Construction	C.1 Well Drilling	25379.20689	1174.283577
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2025	015000	Construction	C.1 Well Drilling	31120.53376	1439.793387
	1000	3.98%	2.03%	No Reduct	No Reduct	3.83%	3.83%	2026	001000	Construction	C.1 Well Drilling	248.7099637	22.54780152
	2000	19.77%	10.16%	No Reduct	No Reduct	19.26%	19.26%	2026	002000	Construction	C.1 Well Drilling	324.8772241	29.55905691
	3000	14.28%	7.37%	No Reduct	No Reduct	14.01%	14.01%	2026	003000	Construction	C.1 Well Drilling	401.0444845	36.5703123
	4000	2.79%	1.44%	No Reduct	No Reduct	2.75%	2.75%	2026	004000	Construction	C.1 Well Drilling	477.2117449	43.58156769
	5000	4.66%	2.42%	No Reduct	No Reduct	4.62%	4.62%	2026	005000	Construction	C.1 Well Drilling	629.5462656	57.60407848
	6000	0.09%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2026	006000	Construction	C.1 Well Drilling	2751.246266	132.6260497
	7000	0.06%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2026	007000	Construction	C.1 Well Drilling	3297.453882	158.8484526
2026	8000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2026	008000	Construction	C.1 Well Drilling	4116.765307	198.1820569
	9000	0.04%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2026	009000	Construction	C.1 Well Drilling	4936.076732	237.5156612
	10000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2026	010000	Construction	C.1 Well Drilling	6301.595774	303.0716684
	11000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2026	011000	Construction	C.1 Well Drilling	9527.043073	450.2183429
	12000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2026	012000	Construction	C.1 Well Drilling	11903.7518	562.3944198
	13000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2026	013000	Construction	C.1 Well Drilling	14619.99034	690.5956505
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2026	014000	Construction	C.1 Well Drilling	18015.28851	850.8471889
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2026	015000	Construction	C.1 Well Drilling	22089.64632	1043.149035
	1000	3.98%	2.03%	No Reduct	No Reduct	3.84%	3.84%	2027	001000	Construction	C.1 Well Drilling	237.4394104	22.28579071

16846.89225	19.81478506	454.6487994	418.2768955	2023	012000	Construction	C.1 Well Drilling	5.914910185	0.177640153	No Reduction	No Reduction
20689.6613	24.3344225	558.2660815	513.604795	2023	013000	Construction	C.1 Well Drilling	6.381877834	0.191686457	No Reduction	No Reduction
25493.12261	29.9839693	687.7876841	632.7646694	2023	014000	Construction	C.1 Well Drilling	2.185347658	0.065645476	No Reduction	No Reduction
31257.27618	36.76342545	843.2136073	775.7565187	2023	015000	Construction	C.1 Well Drilling	0.536094493	0.016104916	No Reduction	No Reduction
650.4930445	0.766405804	10.7065109	9.849990027	2024	001000	Construction	C.1 Well Drilling	11.09798601	0.47836738	No Reduction	No Reduction
855.7315035	1.008083983	13.88905201	12.77792785	2024	002000	Construction	C.1 Well Drilling	72.04827018	3.133545751	No Reduction	No Reduction
1060.969963	1.249762162	17.07159313	15.70586568	2024	003000	Construction	C.1 Well Drilling	64.15045916	2.805610908	No Reduction	No Reduction
1266.208422	1.491440341	20.25413424	18.6338035	2024	004000	Construction	C.1 Well Drilling	14.8704535	0.652823771	No Reduction	No Reduction
1676.68534	1.974796699	26.61921647	24.48967915	2024	005000	Construction	C.1 Well Drilling	32.93987854	1.453075726	No Reduction	No Reduction
3961.954751	4.661204512	105.3744057	96.94445324	2024	006000	Construction	C.1 Well Drilling	3.65663911	0.110704041	No Reduction	No Reduction
4747.390168	5.585171161	126.2175093	116.1201086	2024	007000	Construction	C.1 Well Drilling	2.654094237	0.080388899	No Reduction	No Reduction
5925.543293	6.971121135	157.4821648	144.8835916	2024	008000	Construction	C.1 Well Drilling	1.509163525	0.045731544	No Reduction	No Reduction
7103.696418	8.357071108	188.7468202	173.6470746	2024	009000	Construction	C.1 Well Drilling	2.681646552	0.081285885	No Reduction	No Reduction
9067.284959	10.66698773	240.8545793	221.5862129	2024	010000	Construction	C.1 Well Drilling	3.057814679	0.092719522	No Reduction	No Reduction
13484.46933	15.8601023	360.6164814	331.7671629	2024	011000	Construction	C.1 Well Drilling	3.568508199	0.108570199	No Reduction	No Reduction
16846.89225	19.81478506	450.4808799	414.4424095	2024	012000	Construction	C.1 Well Drilling	5.901188784	0.179572957	No Reduction	No Reduction
20689.6613	24.3344225	553.1830496	508.9284056	2024	013000	Construction	C.1 Well Drilling	6.367198869	0.193779412	No Reduction	No Reduction
25493.12261	29.9839693	681.5607616	627.0359007	2024	014000	Construction	C.1 Well Drilling	2.180356689	0.066364307	No Reduction	No Reduction
31257.27618	36.76342545	835.6140162	768.7648949	2024	015000	Construction	C.1 Well Drilling	0.534877069	0.016281672	No Reduction	No Reduction
650.4930445	0.766405804	9.567177173	8.801802999	2025	001000	Construction	C.1 Well Drilling	10.32294713	0.462548726	No Reduction	No Reduction
855.7315035	1.008083983	12.43192262	11.43736881	2025	002000	Construction	C.1 Well Drilling	66.92399825	3.027842392	No Reduction	No Reduction
1060.969963	1.249762162	15.29666807	14.07293462	2025	003000	Construction	C.1 Well Drilling	59.63320732	2.71419592	No Reduction	No Reduction
1266.208422	1.491440341	18.16141351	16.70850043	2025	004000	Construction	C.1 Well Drilling	13.80160846	0.63074415	No Reduction	No Reduction
1676.68534	1.974796699	23.8909044	21.97963205	2025	005000	Construction	C.1 Well Drilling	30.57916888	1.404766709	No Reduction	No Reduction
3961.954751	4.661204512	103.286051	95.02316693	2025	006000	Construction	C.1 Well Drilling	3.634387484	0.111130625	No Reduction	No Reduction
4747.390168	5.585171161	123.7486731	113.8487792	2025	007000	Construction	C.1 Well Drilling	2.686139965	0.082178834	No Reduction	No Reduction
5925.543293	6.971121135	154.4426061	142.0871976	2025	008000	Construction	C.1 Well Drilling	1.500241485	0.045922224	No Reduction	No Reduction
7103.696418	8.357071108	185.1365392	170.325616	2025	009000	Construction	C.1 Well Drilling	2.665948282	0.081633414	No Reduction	No Reduction
9067.284959	10.66698773	236.2930943	217.3896467	2025	010000	Construction	C.1 Well Drilling	3.040107197	0.093126627	No Reduction	No Reduction
13484.46933	15.8601023	355.2807659	326.8583046	2025	011000	Construction	C.1 Well Drilling	3.552922455	0.109316775	No Reduction	No Reduction
16846.89225	19.81478506	443.8577221	408.3491044	2025	012000	Construction	C.1 Well Drilling	5.875594789	0.180818032	No Reduction	No Reduction
20689.6613	24.3344225	545.0885293	501.481447	2025	013000	Construction	C.1 Well Drilling	6.3397283	0.19513123	No Reduction	No Reduction
25493.12261	29.9839693	671.6270382	617.8968752	2025	014000	Construction	C.1 Well Drilling	2.170990665	0.0668296	No Reduction	No Reduction
31257.27618	36.76342545	823.473249	757.5953891	2025	015000	Construction	C.1 Well Drilling	0.532587395	0.01639628	No Reduction	No Reduction
650.4930445	0.766405804	8.829692143	8.123316771	2026	001000	Construction	C.1 Well Drilling	9.887030124	0.457588522	No Reduction	No Reduction
855.7315035	1.008083983	11.49217578	10.57280172	2026	002000	Construction	C.1 Well Drilling	64.21669399	3.0020355	No Reduction	No Reduction
1060.969963	1.249762162	14.15465942	13.02228666	2026	003000	Construction	C.1 Well Drilling	57.27076986	2.694021153	No Reduction	No Reduction
1266.208422	1.491440341	16.81714305	15.47177161	2026	004000	Construction	C.1 Well Drilling	13.29496651	0.628047014	No Reduction	No Reduction
1676.68534	1.974796699	22.14211033	20.3707415	2026	005000	Construction	C.1 Well Drilling	29.33347094	1.393180163	No Reduction	No Reduction
3961.954751	4.661204512	61.34753113	56.43972864	2026	006000	Construction	C.1 Well Drilling	2.590244426	0.081226317	No Reduction	No Reduction
4747.390168	5.585171161	73.44858911	67.57270198	2026	007000	Construction	C.1 Well Drilling	1.913874616	0.060040135	No Reduction	No Reduction
5925.543293	6.971121135	91.60017608	84.27216199	2026	008000	Construction	C.1 Well Drilling	1.068614514	0.03353688	No Reduction	No Reduction
7103.696418	8.357071108	109.751763	100.971622	2026	009000	Construction	C.1 Well Drilling	1.898576803	0.059599973	No Reduction	No Reduction
9067.284959	10.66698773	140.004408	128.8040554	2026	010000	Construction	C.1 Well Drilling	2.164584312	0.067970341	No Reduction	No Reduction
13484.46933	15.8601023	208.1908107	191.5355459	2026	011000	Construction	C.1 Well Drilling	2.518868295	0.079117895	No Reduction	No Reduction
16846.89225	19.81478506	260.0279531	239.2257169	2026	012000	Construction	C.1 Well Drilling	4.165121278	0.130846885	No Reduction	No Reduction
20689.6613	24.3344225	319.2704015	293.7287694	2026	013000	Construction	C.1 Well Drilling	4.618627958	0.145110318	No Reduction	No Reduction
25493.12261	29.9839693	393.3234621	361.8575851	2026	014000	Construction	C.1 Well Drilling	1.538771229	0.048350433	No Reduction	No Reduction
31257.27618	36.76342545	482.1871347	443.6121639	2026	015000	Construction	C.1 Well Drilling	0.377472689	0.011861632	No Reduction	No Reduction
650.4930445	0.766405804	8.101693118	7.453557668	2027	001000	Construction	C.1 Well Drilling	9.453691395	0.452975705	No Reduction	No Reduction

0.234891629	0.2161003	41	2023	0.12125566	0.00364162	No Reduction	No Reduction	0.00481528	0.00443006
0.253503633	0.23322334	36	2023	0.1148738	0.00345036	No Reduction	No Reduction	0.00456307	0.00419802
0.086826524	0.079880401	10	2023	0.01092674	0.00032823	No Reduction	No Reduction	0.00043413	0.0003994
0.021303438	0.019599163	2	2023	0.00053609	1.6105E-05	No Reduction	No Reduction	2.1303E-05	1.9599E-05
0.410119859	0.377310287	327	2024	1.81452071	0.07821307	No Reduction	No Reduction	0.0670546	0.06169023
2.676299769	2.462195736	1599	2024	57.602592	2.50526983	No Reduction	No Reduction	2.13970167	1.96852549
2.390582152	2.19933558	1142	2024	36.6299122	1.60200383	No Reduction	No Reduction	1.36502241	1.25582062
0.55536259	0.510933589	221	2024	1.64318511	0.07213703	No Reduction	No Reduction	0.06136757	0.05645816
1.233625442	1.134935445	368	2024	6.06093765	0.26736593	No Reduction	No Reduction	0.22698708	0.20882812
0.140902794	0.12963057	91	2024	0.16637708	0.00503703	No Reduction	No Reduction	0.00641108	0.00589819
0.102379312	0.094188971	55	2024	0.07298759	0.00221069	No Reduction	No Reduction	0.00281543	0.0025902
0.058276565	0.053614443	25	2024	0.01886454	0.00057164	No Reduction	No Reduction	0.00072846	0.00067018
0.103626062	0.095335973	37	2024	0.04961046	0.00150379	No Reduction	No Reduction	0.00191708	0.00176372
0.118254337	0.108793997	33	2024	0.05045394	0.00152987	No Reduction	No Reduction	0.0019512	0.0017951
0.140470459	0.129232825	31	2024	0.05531188	0.00168284	No Reduction	No Reduction	0.00217729	0.00200311
0.232390754	0.213799496	41	2024	0.12097437	0.00368125	No Reduction	No Reduction	0.00476401	0.00438289
0.250820368	0.230754736	36	2024	0.11460958	0.00348803	No Reduction	No Reduction	0.00451477	0.00415359
0.085911953	0.079038996	10	2024	0.01090178	0.00033182	No Reduction	No Reduction	0.00042956	0.00039519
0.021079912	0.01939352	2	2024	0.00053488	1.6282E-05	No Reduction	No Reduction	2.108E-05	1.9394E-05
0.367049557	0.337685607	328	2025	1.69296333	0.07585799	No Reduction	No Reduction	0.06019613	0.05538044
2.394943537	2.203348008	1601	2025	53.5726606	2.42378783	No Reduction	No Reduction	1.9171523	1.76378008
2.142586404	1.971179493	1144	2025	34.1101946	1.55252007	No Reduction	No Reduction	1.22555942	1.12751467
0.497238268	0.457459212	221	2025	1.52507774	0.06969723	No Reduction	No Reduction	0.05494483	0.05054924
1.105535265	1.017092478	368	2025	5.62656707	0.25847707	No Reduction	No Reduction	0.20341849	0.18714502
0.137904393	0.126872041	91	2025	0.16536463	0.00505644	No Reduction	No Reduction	0.00627465	0.00577268
0.102049398	0.09388545	56	2025	0.07521192	0.00230101	No Reduction	No Reduction	0.00285738	0.00262879
0.057066555	0.052501233	25	2025	0.01875302	0.00057403	No Reduction	No Reduction	0.00071333	0.00065627
0.101492384	0.093372989	37	2025	0.04932004	0.00151022	No Reduction	No Reduction	0.00187761	0.0017274
0.115841763	0.106574429	33	2025	0.05016177	0.00153659	No Reduction	No Reduction	0.00191139	0.00175848
0.138185694	0.127130842	31	2025	0.0550703	0.00169441	No Reduction	No Reduction	0.00214188	0.00197053
0.228632636	0.210342027	41	2025	0.12044969	0.00370677	No Reduction	No Reduction	0.00468697	0.00431201
0.246781693	0.227039156	36	2025	0.11411511	0.00351236	No Reduction	No Reduction	0.00444207	0.0040867
0.084533557	0.077770872	10	2025	0.01085495	0.00033415	No Reduction	No Reduction	0.00042267	0.00038885
0.020742665	0.019083251	2	2025	0.00053259	1.6396E-05	No Reduction	No Reduction	2.0743E-05	1.9083E-05
0.338251222	0.311191139	328	2026	1.62147294	0.07504452	No Reduction	No Reduction	0.0554732	0.05103535
2.213371723	2.036301943	1603	2026	51.4696802	2.40613145	No Reduction	No Reduction	1.77401744	1.63209601
1.983135757	1.824484897	1146	2026	32.8161511	1.54367412	No Reduction	No Reduction	1.13633679	1.04542985
0.461828514	0.424882238	222	2026	1.47574128	0.06971322	No Reduction	No Reduction	0.05126297	0.04716193
1.023085539	0.941238728	368	2026	5.39735865	0.25634515	No Reduction	No Reduction	0.18824774	0.17318793
0.081787408	0.075244415	91	2026	0.11785612	0.0036958	No Reduction	No Reduction	0.00372133	0.00342362
0.060479234	0.055640897	56	2026	0.05358849	0.00168112	No Reduction	No Reduction	0.00169342	0.00155795
0.03379588	0.031092212	25	2026	0.01335768	0.00041921	No Reduction	No Reduction	0.00042245	0.00038865
0.060076655	0.05527052	37	2026	0.03512367	0.0011026	No Reduction	No Reduction	0.00111142	0.0010225
0.068534424	0.063051674	33	2026	0.03571564	0.00112151	No Reduction	No Reduction	0.00113082	0.00104035
0.080854812	0.074386429	31	2026	0.03904246	0.00122633	No Reduction	No Reduction	0.00125325	0.00115299
0.133741875	0.123042526	41	2026	0.08538499	0.00268236	No Reduction	No Reduction	0.00274171	0.00252237
0.148339464	0.136472305	37	2026	0.08544462	0.00268454	No Reduction	No Reduction	0.00274428	0.00252474
0.049431496	0.045476976	10	2026	0.00769386	0.00024175	No Reduction	No Reduction	0.00024716	0.00022738
0.012127844	0.011157616	2	2026	0.00037747	1.1862E-05	No Reduction	No Reduction	1.2128E-05	1.1158E-05
0.310846187	0.285978505	329	2027	1.55513223	0.0745145	No Reduction	No Reduction	0.0511342	0.04704346

0.12971256	41	0.003163721	22.06379014	2023
0.122887223	36	0.003413534	23.80598585	2023
0.011689098	10	0.00116891	8.151977149	2023
0.000573503	2	0.000286751	1.999804429	2023
1.959788377	327	0.005993237	41.79683223	2024
62.2475635	1599	0.038929058	271.4912494	2024
39.59693842	1142	0.034673326	241.8117763	2024
1.776689705	221	0.00803932	56.06621721	2024
6.555290666	368	0.01781329	124.2298834	2024
0.17782519	91	0.001954123	13.62805361	2024
0.078013717	55	0.001418431	9.892139356	2024
0.020164645	25	0.000806586	5.625129491	2024
0.053031332	37	0.001433279	9.995689489	2024
0.053935011	33	0.001634394	11.39826563	2024
0.059172007	31	0.001908774	13.31179286	2024
0.129419626	41	0.003156576	22.01396275	2024
0.122612376	36	0.003405899	23.75274189	2024
0.011663165	10	0.001166316	8.133891093	2024
0.000572239	2	0.000286119	1.995396184	2024
1.829017447	328	0.005576273	38.88892585	2025
57.91360073	1601	0.036173392	252.2732364	2025
36.88827408	1144	0.032244995	224.8765939	2025
1.649719793	221	0.007464795	52.05948341	2025
6.088462637	368	0.016544735	115.3829849	2025
0.176695724	91	0.001941711	13.54149426	2025
0.08037031	56	0.001435184	10.00897391	2025
0.020040378	25	0.000801615	5.59046393	2025
0.05270787	37	0.001424537	9.934721318	2025
0.053609747	33	0.001624538	11.32952657	2025
0.058906586	31	0.001900212	13.25208171	2025
0.128843432	41	0.003142523	21.91595351	2025
0.122069542	36	0.003390821	23.64758294	2025
0.011611769	10	0.001161177	8.098047777	2025
0.000569726	2	0.000284863	1.986635746	2025
1.751990658	328	0.005341435	37.25116723	2026
55.64982912	1603	0.034716051	242.1097369	2026
35.49616204	1146	0.030973963	216.0124206	2026
1.596717466	222	0.007192421	50.15994418	2026
5.841951543	368	0.015874868	110.7113317	2026
0.125273246	91	0.001376629	9.600611171	2026
0.056963032	56	0.001017197	7.093931824	2026
0.014199341	25	0.000567974	3.961048145	2026
0.037337688	37	0.001009127	7.037649713	2026
0.03796797	33	0.001150545	8.023897612	2026
0.041522036	31	0.001339421	9.341118576	2026
0.090809056	41	0.002214855	15.4463989	2026
0.090873438	37	0.002456039	17.12841508	2026
0.008182766	10	0.000818277	5.70666086	2026
0.000401462	2	0.000200731	1.399898567	2026
1.680780936	329	0.005108757	35.62846883	2027

	2000	19.75%	10.15%	No Reduct	No Reduct	19.24%	19.24%	2027	002000	Construction	C.1 Well Drilling	310.3226543	29.23918253
	3000	14.28%	7.37%	No Reduct	No Reduct	14.01%	14.01%	2027	003000	Construction	C.1 Well Drilling	383.2058981	36.19257436
	4000	2.78%	1.44%	No Reduct	No Reduct	2.74%	2.74%	2027	004000	Construction	C.1 Well Drilling	456.089142	43.14596618
	5000	4.67%	2.42%	No Reduct	No Reduct	4.63%	4.63%	2027	005000	Construction	C.1 Well Drilling	601.8556298	57.05274983
	6000	0.09%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2027	006000	Construction	C.1 Well Drilling	2732.765427	134.013557
	7000	0.06%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2027	007000	Construction	C.1 Well Drilling	3275.560577	160.5311453
2027	8000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2027	008000	Construction	C.1 Well Drilling	4089.753302	200.3075278
	9000	0.04%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2027	009000	Construction	C.1 Well Drilling	4903.946026	240.0839103
	10000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2027	010000	Construction	C.1 Well Drilling	6260.9339	306.3778812
	11000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2027	011000	Construction	C.1 Well Drilling	9482.797117	456.3735298
	12000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2027	012000	Construction	C.1 Well Drilling	11848.79898	570.1105084
	13000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2027	013000	Construction	C.1 Well Drilling	14552.8011	700.0956269
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2027	014000	Construction	C.1 Well Drilling	17932.80376	862.5770249
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2027	015000	Construction	C.1 Well Drilling	21988.80695	1057.554703
	1000	3.98%	2.03%	No Reduct	No Reduct	3.83%	3.83%	2028	001000	Construction	C.1 Well Drilling	220.3047946	21.91287962
	2000	19.77%	10.16%	No Reduct	No Reduct	19.26%	19.26%	2028	002000	Construction	C.1 Well Drilling	287.738463	28.7537402
	3000	14.29%	7.37%	No Reduct	No Reduct	14.02%	14.02%	2028	003000	Construction	C.1 Well Drilling	355.1721314	35.59460077
	4000	2.78%	1.44%	No Reduct	No Reduct	2.74%	2.74%	2028	004000	Construction	C.1 Well Drilling	422.6057999	42.43546135
	5000	4.66%	2.42%	No Reduct	No Reduct	4.62%	4.62%	2028	005000	Construction	C.1 Well Drilling	557.4731368	56.11718251
	6000	0.09%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2028	006000	Construction	C.1 Well Drilling	2729.804588	136.2304136
	7000	0.06%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2028	007000	Construction	C.1 Well Drilling	3272.164748	163.1984367
2028	8000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2028	008000	Construction	C.1 Well Drilling	4085.704988	203.6504715
	9000	0.04%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2028	009000	Construction	C.1 Well Drilling	4899.245228	244.1025062
	10000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2028	010000	Construction	C.1 Well Drilling	6255.145627	311.522564
	11000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2028	011000	Construction	C.1 Well Drilling	9482.668135	464.5924702
	12000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2028	012000	Construction	C.1 Well Drilling	11848.83422	580.3930133
	13000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2028	013000	Construction	C.1 Well Drilling	14553.02403	712.7364911
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2028	014000	Construction	C.1 Well Drilling	17933.2613	878.1658384
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2028	015000	Construction	C.1 Well Drilling	21989.54602	1076.681055
	1000	3.98%	2.03%	No Reduct	No Reduct	3.84%	3.84%	2029	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	19.76%	10.16%	No Reduct	No Reduct	19.26%	19.26%	2029	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	14.29%	7.37%	No Reduct	No Reduct	14.02%	14.02%	2029	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	2.77%	1.43%	No Reduct	No Reduct	2.73%	2.73%	2029	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	4.66%	2.42%	No Reduct	No Reduct	4.62%	4.62%	2029	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.09%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2029	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.06%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2029	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2029	8000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2029	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.04%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2029	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2029	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2029	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2029	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2029	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2029	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2029	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	3.98%	2.03%	No Reduct	No Reduct	3.83%	3.83%	2030	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	19.77%	10.16%	No Reduct	No Reduct	19.27%	19.27%	2030	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	14.28%	7.37%	No Reduct	No Reduct	14.01%	14.01%	2030	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	2.78%	1.44%	No Reduct	No Reduct	2.74%	2.74%	2030	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	4.67%	2.42%	No Reduct	No Reduct	4.63%	4.63%	2030	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.09%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2030	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451

855.7315035	1.008083983	10.56198754	9.71702854	2027	002000	Construction	C.1 Well Drilling	61.28679198	2.966984016	No Reduction	No Reduction
1060.969963	1.249762162	13.02228197	11.98049941	2027	003000	Construction	C.1 Well Drilling	54.73735618	2.666876881	No Reduction	No Reduction
1266.208422	1.491440341	15.48257639	14.24397028	2027	004000	Construction	C.1 Well Drilling	12.68760781	0.620845294	No Reduction	No Reduction
1676.68534	1.974796699	20.40316524	18.77091203	2027	005000	Construction	C.1 Well Drilling	28.07763772	1.381538735	No Reduction	No Reduction
3961.954751	4.661204512	59.61227168	54.84328995	2027	006000	Construction	C.1 Well Drilling	2.569020235	0.081954074	No Reduction	No Reduction
4747.390168	5.585171161	71.39056405	65.67931893	2027	007000	Construction	C.1 Well Drilling	1.898341212	0.060585942	No Reduction	No Reduction
5925.543293	6.971121135	89.05800261	81.9333624	2027	008000	Construction	C.1 Well Drilling	1.060024638	0.033846166	No Reduction	No Reduction
7103.696418	8.357071108	106.7254412	98.18740587	2027	009000	Construction	C.1 Well Drilling	1.934317276	0.061780672	No Reduction	No Reduction
9067.284959	10.66698773	136.1711721	125.2774783	2027	010000	Construction	C.1 Well Drilling	2.147419897	0.068609682	No Reduction	No Reduction
13484.46933	15.8601023	203.5993388	187.3113917	2027	011000	Construction	C.1 Well Drilling	2.503442835	0.080080334	No Reduction	No Reduction
16846.89225	19.81478506	254.3189711	233.9734534	2027	012000	Construction	C.1 Well Drilling	4.139729924	0.132444925	No Reduction	No Reduction
20689.6613	24.3344225	312.2842651	287.3015239	2027	013000	Construction	C.1 Well Drilling	4.590567492	0.146887794	No Reduction	No Reduction
25493.12261	29.9839693	384.7408826	353.961612	2027	014000	Construction	C.1 Well Drilling	1.52944872	0.048944126	No Reduction	No Reduction
31257.27618	36.76342545	471.6888236	433.9537177	2027	015000	Construction	C.1 Well Drilling	0.375190927	0.012007561	No Reduction	No Reduction
650.4930445	0.766405804	7.431979033	6.83742071	2028	001000	Construction	C.1 Well Drilling	8.758453193	0.44473485	No Reduction	No Reduction
855.7315035	1.008083983	9.688992596	8.913873189	2028	002000	Construction	C.1 Well Drilling	56.88370247	2.920658995	No Reduction	No Reduction
1060.969963	1.249762162	11.94600616	10.99032567	2028	003000	Construction	C.1 Well Drilling	50.74594149	2.62348399	No Reduction	No Reduction
1266.208422	1.491440341	14.20301972	13.06677815	2028	004000	Construction	C.1 Well Drilling	11.73870838	0.609715129	No Reduction	No Reduction
1676.68534	1.974796699	18.71704685	17.2196831	2028	005000	Construction	C.1 Well Drilling	25.96851	1.356866722	No Reduction	No Reduction
3961.954751	4.661204512	58.97986828	54.26147881	2028	006000	Construction	C.1 Well Drilling	2.56242745	0.083186095	No Reduction	No Reduction
4747.390168	5.585171161	70.64365426	64.99216192	2028	007000	Construction	C.1 Well Drilling	1.893558167	0.061501173	No Reduction	No Reduction
5925.543293	6.971121135	88.13933324	81.08818658	2028	008000	Construction	C.1 Well Drilling	1.057403397	0.034359946	No Reduction	No Reduction
7103.696418	8.357071108	105.6350122	97.18421124	2028	009000	Construction	C.1 Well Drilling	1.929594514	0.062721532	No Reduction	No Reduction
9067.284959	10.66698773	134.7944772	124.010919	2028	010000	Construction	C.1 Well Drilling	2.142249881	0.069658217	No Reduction	No Reduction
13484.46933	15.8601023	202.0884447	185.9213691	2028	011000	Construction	C.1 Well Drilling	2.49969269	0.081401507	No Reduction	No Reduction
16846.89225	19.81478506	252.4453213	232.2496956	2028	012000	Construction	C.1 Well Drilling	4.133597147	0.134633551	No Reduction	No Reduction
20689.6613	24.3344225	309.9960374	285.1963544	2028	013000	Construction	C.1 Well Drilling	4.583823409	0.149318008	No Reduction	No Reduction
25493.12261	29.9839693	381.9344325	351.3796779	2028	014000	Construction	C.1 Well Drilling	1.52721735	0.049754696	No Reduction	No Reduction
31257.27618	36.76342545	468.2605067	430.7996662	2028	015000	Construction	C.1 Well Drilling	0.37464658	0.012206577	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2029	001000	Construction	C.1 Well Drilling	8.460289709	0.43332598	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2029	002000	Construction	C.1 Well Drilling	54.84255057	2.840340707	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2029	003000	Construction	C.1 Well Drilling	48.94575171	2.552434644	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2029	004000	Construction	C.1 Well Drilling	11.30207848	0.592146887	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2029	005000	Construction	C.1 Well Drilling	25.06880184	1.321267653	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2029	006000	Construction	C.1 Well Drilling	2.557915985	0.084210557	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2029	007000	Construction	C.1 Well Drilling	1.890286657	0.062262201	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2029	008000	Construction	C.1 Well Drilling	1.055611398	0.034787154	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2029	009000	Construction	C.1 Well Drilling	1.926366914	0.063503847	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2029	010000	Construction	C.1 Well Drilling	2.13871796	0.07053005	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2029	011000	Construction	C.1 Well Drilling	2.497761478	0.082559838	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2029	012000	Construction	C.1 Well Drilling	4.130452135	0.136552307	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2029	013000	Construction	C.1 Well Drilling	4.580375913	0.151448473	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2029	014000	Construction	C.1 Well Drilling	1.526079755	0.050465264	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2029	015000	Construction	C.1 Well Drilling	0.374369661	0.012381035	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2030	001000	Construction	C.1 Well Drilling	8.447768314	0.432684649	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2030	002000	Construction	C.1 Well Drilling	54.86342236	2.841421674	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2030	003000	Construction	C.1 Well Drilling	48.91573578	2.550869366	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2030	004000	Construction	C.1 Well Drilling	11.3361861	0.593933878	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2030	005000	Construction	C.1 Well Drilling	25.09935276	1.32287786	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2030	006000	Construction	C.1 Well Drilling	2.554130219	0.084085924	No Reduction	No Reduction

2.032462205	1.869865189	1604		2027	49.1520072	2.37952118	No Reduction	No Reduction	1.63003469	1.49963188
1.824951281	1.678955179	1148		2027	31.4192424	1.53078733	No Reduction	No Reduction	1.04752204	0.96372027
0.424546871	0.390583127	222		2027	1.40832447	0.06891383	No Reduction	No Reduction	0.0471247	0.04335473
0.943893333	0.868381896	369		2027	5.18032416	0.2548939	No Reduction	No Reduction	0.17414832	0.16021646
0.079355844	0.073007376	91		2027	0.11689042	0.00372891	No Reduction	No Reduction	0.00361069	0.00332184
0.058697219	0.054001444	56		2027	0.05315355	0.00169641	No Reduction	No Reduction	0.00164352	0.00151204
0.032809098	0.030184372	25		2027	0.01325031	0.00042308	No Reduction	No Reduction	0.00041011	0.0003773
0.059909812	0.055117025	38		2027	0.03675203	0.00117383	No Reduction	No Reduction	0.00113829	0.00104722
0.066558897	0.06123419	33		2027	0.03543243	0.00113206	No Reduction	No Reduction	0.00109822	0.00101036
0.078954078	0.072637754	31		2027	0.03880336	0.00124125	No Reduction	No Reduction	0.00122379	0.00112589
0.130611078	0.120162193	41		2027	0.08486446	0.00271512	No Reduction	No Reduction	0.00267753	0.00246332
0.144877865	0.133287634	37		2027	0.0849255	0.00271742	No Reduction	No Reduction	0.00268024	0.00246582
0.048280985	0.044418506	10		2027	0.00764724	0.00024472	No Reduction	No Reduction	0.0002414	0.00022209
0.011846156	0.010898464	2		2027	0.00037519	1.2008E-05	No Reduction	No Reduction	1.1846E-05	1.0898E-05
0.28472728	0.26194911	329		2028	1.44076555	0.07315888	No Reduction	No Reduction	0.04683764	0.04309063
1.866345226	1.717037572	1608		2028	45.7344968	2.34820983	No Reduction	No Reduction	1.50054156	1.38049821
1.674548441	1.540584566	1150		2028	29.1789164	1.50850329	No Reduction	No Reduction	0.96286535	0.88583613
0.388882099	0.357771535	222		2028	1.30299663	0.06767838	No Reduction	No Reduction	0.04316591	0.03971264
0.864604612	0.79543627	369		2028	4.7911901	0.25034191	No Reduction	No Reduction	0.15951955	0.14675799
0.078397441	0.072125646	91		2028	0.11659045	0.00378497	No Reduction	No Reduction	0.00356708	0.00328172
0.057996892	0.053357142	56		2028	0.05301963	0.00172203	No Reduction	No Reduction	0.00162391	0.001494
0.032422459	0.029828664	25		2028	0.01321754	0.0004295	No Reduction	No Reduction	0.00040528	0.00037286
0.059209683	0.054472906	38		2028	0.0366623	0.00119171	No Reduction	No Reduction	0.00112498	0.00103499
0.065788183	0.060525132	33		2028	0.03534712	0.00114936	No Reduction	No Reduction	0.00108551	0.00099866
0.078251836	0.071991691	31		2028	0.03874524	0.00126172	No Reduction	No Reduction	0.0012129	0.00111587
0.129456372	0.119099863	41		2028	0.08473874	0.00275999	No Reduction	No Reduction	0.00265386	0.00244155
0.143602806	0.13211458	37		2028	0.08480073	0.00276238	No Reduction	No Reduction	0.00265665	0.00244412
0.047857659	0.044029046	10		2028	0.00763609	0.00024877	No Reduction	No Reduction	0.00023929	0.00022015
0.011742599	0.010803191	2		2028	0.00037465	1.2207E-05	No Reduction	No Reduction	1.1743E-05	1.0803E-05
0.274254998	0.25231461	330		2029	1.3959478	0.07149879	No Reduction	No Reduction	0.04525207	0.04163191
1.795959624	1.65228282	1610		2029	44.1482532	2.28647427	No Reduction	No Reduction	1.4457475	1.33008767
1.613018199	1.483976743	1152		2029	28.192753	1.47020235	No Reduction	No Reduction	0.92909848	0.8547706
0.374072989	0.344147154	222		2029	1.25453071	0.0657283	No Reduction	No Reduction	0.0415221	0.03820033
0.834304517	0.767560182	370		2029	4.63772834	0.24443452	No Reduction	No Reduction	0.15434634	0.14199863
0.077797504	0.071573703	91		2029	0.11638518	0.00383158	No Reduction	No Reduction	0.00353979	0.0032566
0.05756032	0.052955496	56		2029	0.05292803	0.00174334	No Reduction	No Reduction	0.00161169	0.00148275
0.032182468	0.029607872	25		2029	0.01319514	0.00043484	No Reduction	No Reduction	0.00040228	0.0003701
0.05877638	0.054074267	38		2029	0.03660097	0.00120657	No Reduction	No Reduction	0.00111675	0.00102741
0.065312754	0.060087738	33		2029	0.03528885	0.00116375	No Reduction	No Reduction	0.00107766	0.00099145
0.077866795	0.071637453	31		2029	0.0387153	0.00127968	No Reduction	No Reduction	0.00120694	0.00111038
0.128825271	0.11851925	41		2029	0.08467427	0.00279932	No Reduction	No Reduction	0.00264092	0.00242964
0.14290761	0.131475	37		2029	0.08473695	0.0028018	No Reduction	No Reduction	0.00264379	0.00243229
0.047627316	0.04381713	10		2029	0.0076304	0.00025233	No Reduction	No Reduction	0.00023814	0.00021909
0.011686343	0.010751435	2		2029	0.00037437	1.2381E-05	No Reduction	No Reduction	1.1686E-05	1.0751E-05
0.273849096	0.251941179	330		2030	1.39388177	0.07139297	No Reduction	No Reduction	0.0451851	0.04157029
1.796643124	1.65291164	1613		2030	44.2473501	2.29160658	No Reduction	No Reduction	1.44899268	1.33307324
1.612029017	1.483066696	1153		2030	28.1999217	1.47057619	No Reduction	No Reduction	0.92933473	0.85498795
0.375201873	0.345185728	223		2030	1.26398475	0.06622363	No Reduction	No Reduction	0.04183501	0.03848821
0.83532127	0.768495595	371		2030	4.65592994	0.24539384	No Reduction	No Reduction	0.1549521	0.14255593
0.077682362	0.071467773	91		2030	0.11621292	0.00382591	No Reduction	No Reduction	0.00353455	0.00325178

53.16156304	1604	0.033143119	231.1401126	2027
33.99755181	1148	0.029614592	206.5321658	2027
1.524362998	222	0.0068665	47.88697093	2027
5.609366375	369	0.015201535	106.0155043	2027
0.124230022	91	0.001365165	9.520661244	2027
0.056493482	56	0.001008812	7.035456187	2027
0.014083499	25	0.00056334	3.92873282	2027
0.039064147	38	0.001028004	7.169299061	2027
0.03766271	33	0.001141294	7.959386018	2027
0.041268397	31	0.001331239	9.28405816	2027
0.090257112	41	0.002201393	15.35251453	2027
0.090323163	37	0.002441167	17.0246957	2027
0.008133369	10	0.000813337	5.672211649	2027
0.000399045	2	0.000199522	1.391468673	2027
1.560762071	329	0.004743958	33.08436074	2028
49.58324818	1608	0.030835353	215.0457542	2028
31.65028501	1150	0.027521987	191.9383371	2028
1.413840923	222	0.006368653	44.41498467	2028
5.201051557	369	0.014094991	98.29846492	2028
0.1239425	91	0.001362005	9.498626311	2028
0.056365574	56	0.001006528	7.019527081	2028
0.014052323	25	0.000562093	3.920035894	2028
0.038978989	38	0.001025763	7.153670218	2028
0.037581989	33	0.001138848	7.942326933	2028
0.041219863	31	0.001329673	9.273139613	2028
0.090152585	41	0.002198844	15.33473481	2028
0.090219768	37	0.002438372	17.0052071	2028
0.008124149	10	0.000812415	5.665781181	2028
0.000398596	2	0.000199298	1.389903402	2028
1.512698663	330	0.004583935	31.96836509	2029
47.88047498	1610	0.029739425	207.4027531	2029
30.59205382	1152	0.026555602	185.1987703	2029
1.361781118	222	0.006134149	42.77955638	2029
5.036509192	370	0.013612187	94.93139217	2029
0.123756544	91	0.001359962	9.484375149	2029
0.056283057	56	0.001005055	7.009250704	2029
0.014032263	25	0.000561291	3.914440017	2029
0.038924296	38	0.001024324	7.143632579	2029
0.037530253	33	0.00113728	7.931393385	2029
0.041201916	31	0.001329094	9.269101945	2029
0.090114509	41	0.002197915	15.32825821	2029
0.090182542	37	0.002437366	16.99819047	2029
0.008120862	10	0.000812086	5.66348893	2029
0.000398437	2	0.000199219	1.389349951	2029
1.51045984	330	0.004577151	31.92105128	2030
47.98794939	1613	0.029750744	207.4816857	2030
30.5998326	1153	0.026539317	185.0851973	2030
1.372043386	223	0.006152661	42.90865729	2030
5.056275875	371	0.013628776	95.04708344	2030
0.123573382	91	0.001357949	9.470338086	2030

	7000	0.06%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2030	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2030	8000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2030	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.04%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2030	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2030	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2030	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2030	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2030	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2030	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2030	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	3.97%	2.03%	No Reduct	No Reduct	3.83%	3.83%	2031	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	19.78%	10.16%	No Reduct	No Reduct	19.27%	19.27%	2031	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	14.29%	7.37%	No Reduct	No Reduct	14.02%	14.02%	2031	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	2.78%	1.44%	No Reduct	No Reduct	2.74%	2.74%	2031	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	4.66%	2.42%	No Reduct	No Reduct	4.62%	4.62%	2031	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.09%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2031	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.06%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2031	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2031	8000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2031	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.04%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2031	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2031	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2031	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2031	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2031	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2031	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2031	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	3.99%	2.04%	No Reduct	No Reduct	3.84%	3.84%	2032	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	19.76%	10.15%	No Reduct	No Reduct	19.26%	19.26%	2032	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	14.29%	7.37%	No Reduct	No Reduct	14.02%	14.02%	2032	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	2.79%	1.44%	No Reduct	No Reduct	2.75%	2.75%	2032	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	4.66%	2.42%	No Reduct	No Reduct	4.62%	4.62%	2032	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.09%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2032	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.06%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2032	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2032	8000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2032	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.04%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2032	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2032	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2032	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2032	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2032	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2032	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2032	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	3.98%	2.03%	No Reduct	No Reduct	3.84%	3.84%	2033	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	19.74%	10.14%	No Reduct	No Reduct	19.23%	19.23%	2033	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	14.30%	7.38%	No Reduct	No Reduct	14.03%	14.03%	2033	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	2.78%	1.44%	No Reduct	No Reduct	2.74%	2.74%	2033	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	4.66%	2.42%	No Reduct	No Reduct	4.62%	4.62%	2033	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.09%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2033	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.06%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2033	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2033	8000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2033	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.04%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2033	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2033	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2033	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126

4747.390168	5.585171161	70.21595899	64.59868227	2030	007000	Construction	C.1 Well Drilling	1.887488996	0.062170052	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2030	008000	Construction	C.1 Well Drilling	1.054049073	0.034735668	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2030	009000	Construction	C.1 Well Drilling	1.923515853	0.06340986	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2030	010000	Construction	C.1 Well Drilling	2.135552615	0.070425665	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2030	011000	Construction	C.1 Well Drilling	2.494064742	0.082437648	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2030	012000	Construction	C.1 Well Drilling	4.124338985	0.136350207	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2030	013000	Construction	C.1 Well Drilling	4.573596867	0.151224327	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2030	014000	Construction	C.1 Well Drilling	1.523821127	0.050390574	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2030	015000	Construction	C.1 Well Drilling	0.373815586	0.01236271	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2031	001000	Construction	C.1 Well Drilling	8.435283927	0.432045214	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2031	002000	Construction	C.1 Well Drilling	54.88423245	2.842499446	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2031	003000	Construction	C.1 Well Drilling	48.92817062	2.551517821	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2031	004000	Construction	C.1 Well Drilling	11.31943311	0.593056143	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2031	005000	Construction	C.1 Well Drilling	25.06226012	1.320922868	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2031	006000	Construction	C.1 Well Drilling	2.550355642	0.083961659	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2031	007000	Construction	C.1 Well Drilling	1.884699603	0.062078175	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2031	008000	Construction	C.1 Well Drilling	1.052491365	0.034684335	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2031	009000	Construction	C.1 Well Drilling	1.920673219	0.063316151	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2031	010000	Construction	C.1 Well Drilling	2.132396626	0.070321587	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2031	011000	Construction	C.1 Well Drilling	2.570713736	0.084971168	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2031	012000	Construction	C.1 Well Drilling	4.118243903	0.136148705	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2031	013000	Construction	C.1 Well Drilling	4.566837857	0.151000842	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2031	014000	Construction	C.1 Well Drilling	1.521569174	0.050316106	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2031	015000	Construction	C.1 Well Drilling	0.373263149	0.01234444	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2032	001000	Construction	C.1 Well Drilling	8.473883879	0.434022257	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2032	002000	Construction	C.1 Well Drilling	54.83715534	2.840061284	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2032	003000	Construction	C.1 Well Drilling	48.94056876	2.552164362	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2032	004000	Construction	C.1 Well Drilling	11.35341446	0.594836519	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2032	005000	Construction	C.1 Well Drilling	25.02527695	1.318973645	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2032	006000	Construction	C.1 Well Drilling	2.546592206	0.083837761	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2032	007000	Construction	C.1 Well Drilling	1.881918443	0.061986569	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2032	008000	Construction	C.1 Well Drilling	1.050938254	0.034633153	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2032	009000	Construction	C.1 Well Drilling	1.917838974	0.063222718	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2032	010000	Construction	C.1 Well Drilling	2.129249951	0.070217817	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2032	011000	Construction	C.1 Well Drilling	2.566920258	0.08484578	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2032	012000	Construction	C.1 Well Drilling	4.112166809	0.135947797	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2032	013000	Construction	C.1 Well Drilling	4.560098794	0.150778018	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2032	014000	Construction	C.1 Well Drilling	1.519323868	0.050241856	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2032	015000	Construction	C.1 Well Drilling	0.372712343	0.012326224	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2033	001000	Construction	C.1 Well Drilling	8.463476259	0.433489191	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2033	002000	Construction	C.1 Well Drilling	54.76980437	2.836573122	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2033	003000	Construction	C.1 Well Drilling	48.96495516	2.55343607	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2033	004000	Construction	C.1 Well Drilling	11.3394702	0.594105941	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2033	005000	Construction	C.1 Well Drilling	25.06191165	1.320904501	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2033	006000	Construction	C.1 Well Drilling	2.543464483	0.083734791	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2033	007000	Construction	C.1 Well Drilling	1.879607072	0.061910437	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2033	008000	Construction	C.1 Well Drilling	1.091633392	0.035974241	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2033	009000	Construction	C.1 Well Drilling	1.915483485	0.063145068	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2033	010000	Construction	C.1 Well Drilling	2.126634807	0.070131576	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2033	011000	Construction	C.1 Well Drilling	2.563767568	0.084741572	No Reduction	No Reduction

0.057475129	0.052877121	56	2030	0.05284969	0.00174076	No Reduction	No Reduction	0.0016093	0.00148056
0.032134837	0.029564051	25	2030	0.01317561	0.0004342	No Reduction	No Reduction	0.00040169	0.00036955
0.05868939	0.053994236	38	2030	0.0365468	0.00120479	No Reduction	No Reduction	0.0011151	0.00102589
0.06521609	0.059998807	33	2030	0.03523662	0.00116202	No Reduction	No Reduction	0.00107607	0.00098998
0.077751551	0.071531429	31	2030	0.038658	0.00127778	No Reduction	No Reduction	0.00120515	0.00110874
0.128634607	0.118343839	41	2030	0.08454895	0.00279518	No Reduction	No Reduction	0.00263701	0.00242605
0.142696104	0.131280415	37	2030	0.08461154	0.00279765	No Reduction	No Reduction	0.00263988	0.00242869
0.047556826	0.04375228	10	2030	0.00761911	0.00025195	No Reduction	No Reduction	0.00023778	0.00021876
0.011669047	0.010735523	2	2030	0.00037382	1.2363E-05	No Reduction	No Reduction	1.1669E-05	1.0736E-05
0.273444392	0.251568852	330	2031	1.39182185	0.07128746	No Reduction	No Reduction	0.04511832	0.04150886
1.797324604	1.653538601	1616	2031	44.3464598	2.29673955	No Reduction	No Reduction	1.45223828	1.33605919
1.61243881	1.483443705	1155	2031	28.2560185	1.47350154	No Reduction	No Reduction	0.93118341	0.85668874
0.374647388	0.344675601	223	2031	1.26211679	0.06612576	No Reduction	No Reduction	0.04177318	0.03843133
0.834086805	0.767359887	371	2031	4.64904925	0.24503119	No Reduction	No Reduction	0.1547231	0.14234526
0.07756756	0.071362155	91	2031	0.11604118	0.00382026	No Reduction	No Reduction	0.00352932	0.00324698
0.057390191	0.052798978	56	2031	0.05277159	0.00173819	No Reduction	No Reduction	0.00160693	0.00147837
0.032087347	0.029520361	25	2031	0.01315614	0.00043355	No Reduction	No Reduction	0.00040109	0.000369
0.058602657	0.053914442	38	2031	0.03649279	0.00120301	No Reduction	No Reduction	0.00111345	0.00102437
0.065119712	0.059910139	33	2031	0.03518454	0.00116031	No Reduction	No Reduction	0.00107448	0.00098852
0.080141055	0.073729772	32	2031	0.04113142	0.00135954	No Reduction	No Reduction	0.00128226	0.00117968
0.128444506	0.118168947	41	2031	0.084424	0.00279105	No Reduction	No Reduction	0.00263311	0.00242246
0.142485223	0.131086404	37	2031	0.0844865	0.00279352	No Reduction	No Reduction	0.00263598	0.0024251
0.047486545	0.043687621	10	2031	0.00760785	0.00025158	No Reduction	No Reduction	0.00023743	0.00021844
0.011651802	0.010719658	2	2031	0.00037326	1.2344E-05	No Reduction	No Reduction	1.1652E-05	1.072E-05
0.274695677	0.252720034	332	2032	1.40666472	0.07204769	No Reduction	No Reduction	0.04559948	0.04195153
1.795782943	1.652120274	1617	2032	44.3358401	2.29618955	No Reduction	No Reduction	1.45189051	1.33573924
1.612847393	1.483819602	1157	2032	28.312119	1.47642708	No Reduction	No Reduction	0.93303222	0.85838964
0.375772093	0.34571033	224	2032	1.27158242	0.06662169	No Reduction	No Reduction	0.04208647	0.03871956
0.832855984	0.766227531	371	2032	4.64218887	0.24466961	No Reduction	No Reduction	0.15449478	0.14213521
0.077453098	0.07125685	91	2032	0.11586995	0.00381462	No Reduction	No Reduction	0.00352412	0.00324219
0.057305503	0.052721065	56	2032	0.05269372	0.00173562	No Reduction	No Reduction	0.00160455	0.00147619
0.032039997	0.029476799	25	2032	0.01313673	0.00043291	No Reduction	No Reduction	0.0004005	0.00036846
0.05851618	0.053834883	38	2032	0.03643894	0.00120123	No Reduction	No Reduction	0.00111181	0.00102286
0.065023618	0.059821732	33	2032	0.03513262	0.00115859	No Reduction	No Reduction	0.00107289	0.00098706
0.080022795	0.073620973	32	2032	0.04107072	0.00135753	No Reduction	No Reduction	0.00128036	0.00117794
0.128254967	0.117994571	41	2032	0.08429942	0.00278693	No Reduction	No Reduction	0.00262923	0.00241889
0.142274965	0.130892966	37	2032	0.08436183	0.00278939	No Reduction	No Reduction	0.00263209	0.00242152
0.047416472	0.043623154	10	2032	0.00759662	0.00025121	No Reduction	No Reduction	0.00023708	0.00021812
0.011634608	0.010703839	2	2032	0.00037271	1.2326E-05	No Reduction	No Reduction	1.1635E-05	1.0704E-05
0.274358296	0.252409644	332	2033	1.40493706	0.07195921	No Reduction	No Reduction	0.04554348	0.0419
1.793577364	1.65009114	1617	2033	44.2813868	2.29336937	No Reduction	No Reduction	1.4501073	1.33409869
1.613651052	1.484558969	1159	2033	28.3751915	1.4797162	No Reduction	No Reduction	0.93511078	0.86030192
0.37531057	0.345285728	224	2033	1.27002066	0.06653987	No Reduction	No Reduction	0.04203478	0.038672
0.834075208	0.767349217	372	2033	4.66151557	0.24568824	No Reduction	No Reduction	0.15513799	0.14272695
0.07735797	0.071169332	91	2033	0.11572763	0.00380993	No Reduction	No Reduction	0.00351979	0.0032382
0.05723512	0.052656313	56	2033	0.052629	0.00173349	No Reduction	No Reduction	0.00160258	0.00147438
0.033280672	0.030618219	26	2033	0.01419123	0.00046767	No Reduction	No Reduction	0.00043265	0.00039804
0.05844431	0.053768763	38	2033	0.03639419	0.00119976	No Reduction	No Reduction	0.00111044	0.00102161
0.064943756	0.059748259	33	2033	0.03508947	0.00115717	No Reduction	No Reduction	0.00107157	0.00098585
0.079924511	0.073530552	32	2033	0.04102028	0.00135587	No Reduction	No Reduction	0.00127879	0.00117649

0.056199757	56	0.001003567	6.998876875	2030
0.014011495	25	0.00056046	3.908646568	2030
0.038866687	38	0.001022808	7.133059862	2030
0.037474707	33	0.001135597	7.919654766	2030
0.041140936	31	0.001327127	9.255383491	2030
0.089981138	41	0.002194662	15.30557209	2030
0.09004907	37	0.002433759	16.97303282	2030
0.008108843	10	0.000810884	5.655106855	2030
0.000397847	2	0.000198924	1.387293686	2030
1.508227633	330	0.004570387	31.87387731	2031
48.09543765	1616	0.029762028	207.560385	2031
30.66070349	1155	0.026546064	185.1322477	2031
1.370015736	223	0.006143568	42.84524548	2031
5.048803547	371	0.013608635	94.90661977	2031
0.123390761	91	0.001355942	9.456342513	2031
0.056116703	56	0.001002084	6.988533707	2031
0.013990788	25	0.000559632	3.902870243	2031
0.038809248	38	0.001021296	7.122518394	2031
0.037419326	33	0.001133919	7.907950843	2031
0.043773215	32	0.001367913	9.539825119	2031
0.089848161	41	0.002191419	15.28295301	2031
0.089915993	37	0.002430162	16.94794952	2031
0.008096859	10	0.000809686	5.646749554	2031
0.000397259	2	0.00019863	1.385243498	2031
1.524311901	332	0.004591301	32.01973252	2032
48.08392015	1617	0.0297365	207.3823495	2032
30.72157833	1157	0.02655279	185.1791593	2032
1.380290584	224	0.006162012	42.97386845	2032
5.041353271	371	0.013588553	94.76657065	2032
0.123208679	91	0.001353942	9.442388245	2032
0.056033894	56	0.001000605	6.978221065	2032
0.013970143	25	0.000558806	3.897110966	2032
0.03875198	38	0.001019789	7.112008037	2032
0.037364108	33	0.001132246	7.896281461	2032
0.043708621	32	0.001365894	9.52574766	2032
0.089715576	41	0.002188185	15.2604007	2032
0.089783308	37	0.002426576	16.92294025	2032
0.008084911	10	0.000808491	5.638416918	2032
0.000396673	2	0.000198337	1.383199361	2032
1.522439742	332	0.004585662	31.9804059	2033
48.0248635	1617	0.029699977	207.1276426	2033
30.7900185	1159	0.026566021	185.2714314	2033
1.378595312	224	0.006154443	42.92108797	2033
5.062341793	372	0.013608446	94.90530017	2033
0.123057355	91	0.001352279	9.430791108	2033
0.055965074	56	0.000999376	6.969650418	2033
0.015091548	26	0.000580444	4.048017518	2033
0.038704384	38	0.001018536	7.103273073	2033
0.037318217	33	0.001130855	7.886583253	2033
0.043654938	32	0.001364217	9.514048141	2033

	12000	0.04%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2033	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2033	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2033	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2033	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	3.99%	2.04%	No Reduct	No Reduct	3.84%	3.84%	2034	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	19.75%	10.15%	No Reduct	No Reduct	19.24%	19.24%	2034	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	14.30%	7.38%	No Reduct	No Reduct	14.03%	14.03%	2034	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	2.78%	1.44%	No Reduct	No Reduct	2.74%	2.74%	2034	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	4.66%	2.42%	No Reduct	No Reduct	4.62%	4.62%	2034	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.09%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2034	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.06%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2034	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2034	8000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2034	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.04%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2034	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2034	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2034	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.04%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2034	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2034	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2034	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2034	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	3.98%	2.03%	No Reduct	No Reduct	3.84%	3.84%	2035	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	19.75%	10.15%	No Reduct	No Reduct	19.25%	19.25%	2035	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	14.30%	7.38%	No Reduct	No Reduct	14.03%	14.03%	2035	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	2.77%	1.44%	No Reduct	No Reduct	2.73%	2.73%	2035	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	4.66%	2.42%	No Reduct	No Reduct	4.62%	4.62%	2035	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.09%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2035	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.06%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2035	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2035	8000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2035	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.04%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2035	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2035	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2035	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.04%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2035	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.03%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2035	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2035	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2035	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176

16846.89225	19.81478506	251.5875537	231.4605494	2033	012000	Construction	C.1 Well Drilling	4.207289815	0.139092553	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2033	013000	Construction	C.1 Well Drilling	4.554498083	0.150592832	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2033	014000	Construction	C.1 Well Drilling	1.517457835	0.050180149	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2033	015000	Construction	C.1 Well Drilling	0.372254578	0.012311085	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2034	001000	Construction	C.1 Well Drilling	8.476475694	0.434155007	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2034	002000	Construction	C.1 Well Drilling	54.79066547	2.837653535	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2034	003000	Construction	C.1 Well Drilling	48.97726572	2.554078044	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2034	004000	Construction	C.1 Well Drilling	11.32278224	0.593231613	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2034	005000	Construction	C.1 Well Drilling	25.02502878	1.318960565	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2034	006000	Construction	C.1 Well Drilling	2.539721341	0.083611561	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2034	007000	Construction	C.1 Well Drilling	1.87684091	0.061819326	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2034	008000	Construction	C.1 Well Drilling	1.090026867	0.035921299	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2034	009000	Construction	C.1 Well Drilling	1.912664525	0.063052139	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2034	010000	Construction	C.1 Well Drilling	2.123505102	0.070028365	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2034	011000	Construction	C.1 Well Drilling	2.559994547	0.084616861	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2034	012000	Construction	C.1 Well Drilling	4.201098071	0.138887855	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2034	013000	Construction	C.1 Well Drilling	4.547795364	0.150371209	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2034	014000	Construction	C.1 Well Drilling	1.515224638	0.050106301	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2034	015000	Construction	C.1 Well Drilling	0.371706742	0.012292967	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2035	001000	Construction	C.1 Well Drilling	8.464019448	0.433517013	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2035	002000	Construction	C.1 Well Drilling	54.81146526	2.838730774	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2035	003000	Construction	C.1 Well Drilling	48.98954009	2.554718131	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2035	004000	Construction	C.1 Well Drilling	11.30614332	0.592359855	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2035	005000	Construction	C.1 Well Drilling	25.05542703	1.320562725	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2035	006000	Construction	C.1 Well Drilling	2.535989201	0.083488693	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2035	007000	Construction	C.1 Well Drilling	1.874082877	0.061728482	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2035	008000	Construction	C.1 Well Drilling	1.088425065	0.035868512	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2035	009000	Construction	C.1 Well Drilling	1.909853849	0.062959484	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2035	010000	Construction	C.1 Well Drilling	2.120384595	0.069925458	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2035	011000	Construction	C.1 Well Drilling	2.556232616	0.084492516	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2035	012000	Construction	C.1 Well Drilling	4.194924525	0.138683758	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2035	013000	Construction	C.1 Well Drilling	4.541112343	0.150150238	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2035	014000	Construction	C.1 Well Drilling	1.512998003	0.050032669	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2035	015000	Construction	C.1 Well Drilling	0.371160516	0.012274903	No Reduction	No Reduction

0.131221772	0.120724031	42		2033	0.08835309	0.00292094	No Reduction	No Reduction	0.00275566	0.0025352
0.142100223	0.130732204	37		2033	0.08425821	0.00278597	No Reduction	No Reduction	0.00262885	0.00241855
0.047358235	0.043569576	10		2033	0.00758729	0.0002509	No Reduction	No Reduction	0.00023679	0.00021785
0.011620318	0.010690693	2		2033	0.00037225	1.2311E-05	No Reduction	No Reduction	1.162E-05	1.0691E-05
0.274779695	0.252797331	333		2034	1.4113332	0.07228681	No Reduction	No Reduction	0.04575082	0.04209076
1.794260514	1.650719638	1620		2034	44.380439	2.29849936	No Reduction	No Reduction	1.45335102	1.33708291
1.61405675	1.48493221	1161		2034	28.4313027	1.4826423	No Reduction	No Reduction	0.93695994	0.86200315
0.374758236	0.344777582	224		2034	1.26815161	0.06644194	No Reduction	No Reduction	0.04197292	0.03861509
0.832847724	0.766219932	372		2034	4.65465535	0.24532667	No Reduction	No Reduction	0.15490968	0.14251691
0.077244124	0.071064594	91		2034	0.11555732	0.00380433	No Reduction	No Reduction	0.00351461	0.00323344
0.057150889	0.05257882	56		2034	0.05255155	0.00173094	No Reduction	No Reduction	0.00160022	0.00147221
0.033231693	0.03057316	26		2034	0.01417035	0.00046698	No Reduction	No Reduction	0.00043201	0.00039745
0.058358299	0.053689633	38		2034	0.03634063	0.00119799	No Reduction	No Reduction	0.00110881	0.0010201
0.06484818	0.05966033	33		2034	0.03503783	0.00115547	No Reduction	No Reduction	0.00106999	0.0009844
0.079806888	0.073422339	32		2034	0.04095991	0.00135387	No Reduction	No Reduction	0.00127691	0.00117476
0.131028657	0.120546365	42		2034	0.08822306	0.00291664	No Reduction	No Reduction	0.0027516	0.00253147
0.141891098	0.130539809	37		2034	0.08413421	0.00278187	No Reduction	No Reduction	0.00262499	0.00241499
0.047288539	0.043505456	10		2034	0.00757612	0.00025053	No Reduction	No Reduction	0.00023644	0.00021753
0.011603217	0.010674959	2		2034	0.00037171	1.2293E-05	No Reduction	No Reduction	1.1603E-05	1.0675E-05
0.274375904	0.252425843	333		2035	1.40925924	0.07218058	No Reduction	No Reduction	0.04568359	0.0420289
1.794941656	1.651346289	1623		2035	44.4795041	2.30363002	No Reduction	No Reduction	1.45659515	1.34006751
1.614461254	1.485304354	1163		2035	28.4874176	1.48556859	No Reduction	No Reduction	0.93880922	0.86370448
0.374207526	0.344270928	224		2035	1.26628805	0.0663443	No Reduction	No Reduction	0.04191124	0.03855834
0.833859396	0.76715067	373		2035	4.67283714	0.24628495	No Reduction	No Reduction	0.15551478	0.1430736
0.077130614	0.070960164	91		2035	0.11538751	0.00379874	No Reduction	No Reduction	0.00350944	0.00322869
0.057066905	0.052501555	56		2035	0.05247432	0.0017284	No Reduction	No Reduction	0.00159787	0.00147004
0.033182859	0.030528232	26		2035	0.01414953	0.00046629	No Reduction	No Reduction	0.00043138	0.00039687
0.058272541	0.053610735	38		2035	0.03628722	0.00119623	No Reduction	No Reduction	0.00110718	0.0010186
0.064752885	0.059572658	33		2035	0.03498635	0.00115377	No Reduction	No Reduction	0.00106842	0.00098295
0.079689611	0.073314444	32		2035	0.04089972	0.00135188	No Reduction	No Reduction	0.00127503	0.00117303
0.130836109	0.120369222	42		2035	0.08809342	0.00291236	No Reduction	No Reduction	0.00274756	0.00252775
0.141682588	0.13034798	37		2035	0.08401058	0.00277778	No Reduction	No Reduction	0.00262113	0.00241144
0.047219048	0.043441524	10		2035	0.00756499	0.00025016	No Reduction	No Reduction	0.0002361	0.00021721
0.011586166	0.010659272	2		2035	0.00037116	1.2275E-05	No Reduction	No Reduction	1.1586E-05	1.0659E-05

0.094029687	42	0.002238802	15.61340564	2033
0.089673036	37	0.002423596	16.9021555	2033
0.008074981	10	0.000807498	5.631491818	2033
0.000396186	2	0.000198093	1.381500517	2033
1.529370831	333	0.004592705	32.02952605	2034
48.13228941	1620	0.02971129	207.2065348	2034
30.850905	1161	0.0265727	185.3180116	2034
1.376566474	224	0.006145386	42.85792227	2034
5.054891695	372	0.013588419	94.76563086	2034
0.122876255	91	0.001350289	9.416912093	2034
0.055882711	56	0.000997906	6.95939339	2034
0.015069338	26	0.00057959	4.04206017	2034
0.038647424	38	0.001017037	7.092819397	2034
0.037263297	33	0.001129191	7.874976802	2034
0.043590693	32	0.001362209	9.500046599	2034
0.093891306	42	0.002235507	15.59042785	2034
0.089541067	37	0.002420029	16.8772811	2034
0.008063097	10	0.00080631	5.623204118	2034
0.000395603	2	0.000197801	1.379467403	2034
1.527123409	333	0.004585956	31.98245842	2035
48.23972923	1623	0.029722569	207.2851951	2035
30.91179538	1163	0.02657936	185.3644548	2035
1.374543599	224	0.006136355	42.79494223	2035
5.074636867	373	0.013604925	94.880744	2035
0.122695687	91	0.001348304	9.403073868	2035
0.055800591	56	0.000996439	6.949166508	2035
0.015047194	26	0.000578738	4.036120332	2035
0.038590632	38	0.001015543	7.082396444	2035
0.037208538	33	0.001127531	7.863404463	2035
0.043526636	32	0.001360207	9.486086207	2035
0.093753332	42	0.002232222	15.5675176	2035
0.089409486	37	0.002416473	16.8524798	2035
0.008051249	10	0.000805125	5.614940776	2035
0.000395022	2	0.000197511	1.377440265	2035

Final % Reduction

		NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
	1000	5.96%	2.24%	No Reduct	No Reduct	4.23%	4.23%
	2000	28.10%	10.64%	No Reduct	No Reduct	20.18%	20.18%
	3000	18.68%	7.10%	No Reduct	No Reduct	13.51%	13.51%
	4000	3.52%	1.34%	No Reduct	No Reduct	2.56%	2.56%
	5000	6.12%	2.34%	No Reduct	No Reduct	4.48%	4.48%
	6000	0.12%	0.06%	No Reduct	No Reduct	0.12%	0.12%
	7000	0.07%	0.04%	No Reduct	No Reduct	0.08%	0.08%
2012	8000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%
	9000	0.06%	0.03%	No Reduct	No Reduct	0.06%	0.06%
	10000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%
	11000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%
	12000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%
	13000	0.03%	0.01%	No Reduct	No Reduct	0.03%	0.03%
	14000	0.01%	0.00%	No Reduct	No Reduct	0.01%	0.01%
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	1000	5.40%	2.03%	No Reduct	No Reduct	3.83%	3.83%
	2000	26.77%	10.14%	No Reduct	No Reduct	19.23%	19.23%
	3000	19.37%	7.37%	No Reduct	No Reduct	14.01%	14.01%
	4000	3.77%	1.44%	No Reduct	No Reduct	2.74%	2.74%
	5000	6.33%	2.42%	No Reduct	No Reduct	4.63%	4.63%
	6000	0.13%	0.06%	No Reduct	No Reduct	0.13%	0.13%
	7000	0.08%	0.04%	No Reduct	No Reduct	0.08%	0.08%
2015	8000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%
	9000	0.05%	0.03%	No Reduct	No Reduct	0.06%	0.06%
	10000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%
	11000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%
	12000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%
	13000	0.04%	0.02%	No Reduct	No Reduct	0.05%	0.05%
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	1000	5.39%	2.03%	No Reduct	No Reduct	3.83%	3.83%
	2000	26.77%	10.14%	No Reduct	No Reduct	19.23%	19.23%
	3000	19.39%	7.37%	No Reduct	No Reduct	14.02%	14.02%
	4000	3.77%	1.44%	No Reduct	No Reduct	2.74%	2.74%
	5000	6.33%	2.42%	No Reduct	No Reduct	4.63%	4.63%
	6000	0.13%	0.06%	No Reduct	No Reduct	0.13%	0.13%
	7000	0.08%	0.04%	No Reduct	No Reduct	0.08%	0.08%
2016	8000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%
	9000	0.05%	0.03%	No Reduct	No Reduct	0.06%	0.06%
	10000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%
	11000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%
	12000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%
	13000	0.04%	0.02%	No Reduct	No Reduct	0.05%	0.05%
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%
	1000	5.38%	2.03%	No Reduct	No Reduct	3.82%	3.82%

Drilling Emissions in Lbs/Well Drilled

CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB
2012	001000	Construction	C.1 Well Drilling	889.3949598	52.74499254
2012	002000	Construction	C.1 Well Drilling	1165.785878	68.6565032
2012	003000	Construction	C.1 Well Drilling	1442.176795	84.56801385
2012	004000	Construction	C.1 Well Drilling	1718.567713	100.4795245
2012	005000	Construction	C.1 Well Drilling	2271.349549	132.3025458
2012	006000	Construction	C.1 Well Drilling	5143.498427	247.3684469
2012	007000	Construction	C.1 Well Drilling	6160.153671	295.8400441
2012	008000	Construction	C.1 Well Drilling	7685.136537	368.54744
2012	009000	Construction	C.1 Well Drilling	9210.119402	441.2548359
2012	010000	Construction	C.1 Well Drilling	11751.75751	562.433829
2012	011000	Construction	C.1 Well Drilling	17376.84905	812.3437041
2012	012000	Construction	C.1 Well Drilling	21706.00576	1014.177015
2012	013000	Construction	C.1 Well Drilling	26653.61343	1244.843656
2012	014000	Construction	C.1 Well Drilling	32838.12301	1533.176957
2012	015000	Construction	C.1 Well Drilling	40259.53452	1879.176919
2015	001000	Construction	C.1 Well Drilling	802.5835351	48.79234205
2015	002000	Construction	C.1 Well Drilling	1051.798768	63.53247208
2015	003000	Construction	C.1 Well Drilling	1301.014	78.27260212
2015	004000	Construction	C.1 Well Drilling	1550.229233	93.01273216
2015	005000	Construction	C.1 Well Drilling	2048.659698	122.4929922
2015	006000	Construction	C.1 Well Drilling	5123.472228	266.380754
2015	007000	Construction	C.1 Well Drilling	6137.179107	318.7425144
2015	008000	Construction	C.1 Well Drilling	7657.739424	397.285155
2015	009000	Construction	C.1 Well Drilling	9178.299741	475.8277956
2015	010000	Construction	C.1 Well Drilling	11712.56694	606.7321966
2015	011000	Construction	C.1 Well Drilling	17402.30073	885.5183604
2015	012000	Construction	C.1 Well Drilling	21739.14145	1105.754963
2015	013000	Construction	C.1 Well Drilling	26695.53085	1357.453936
2015	014000	Construction	C.1 Well Drilling	32891.01759	1672.077654
2015	015000	Construction	C.1 Well Drilling	40325.60169	2049.626115
2016	001000	Construction	C.1 Well Drilling	763.3389208	46.54759315
2016	002000	Construction	C.1 Well Drilling	1000.28455	60.61695792
2016	003000	Construction	C.1 Well Drilling	1237.23018	74.68632269
2016	004000	Construction	C.1 Well Drilling	1474.175809	88.75568746
2016	005000	Construction	C.1 Well Drilling	1948.067068	116.894417
2016	006000	Construction	C.1 Well Drilling	5042.783384	260.999804
2016	007000	Construction	C.1 Well Drilling	6040.839654	312.331865
2016	008000	Construction	C.1 Well Drilling	7537.924059	389.3299566
2016	009000	Construction	C.1 Well Drilling	9035.008464	466.3280481
2016	010000	Construction	C.1 Well Drilling	11530.14914	594.6582007
2016	011000	Construction	C.1 Well Drilling	17169.76603	870.1619411
2016	012000	Construction	C.1 Well Drilling	21449.08203	1086.617552
2016	013000	Construction	C.1 Well Drilling	26339.72888	1333.995392
2016	014000	Construction	C.1 Well Drilling	32453.03745	1643.217693
2016	015000	Construction	C.1 Well Drilling	39789.00774	2014.284454
2017	001000	Construction	C.1 Well Drilling	719.1407087	43.99990232

Amount of Drilling Emissions Reduced in Changing 250<hp<750 Engines to Tier 4f in Lbs/Well Drilled

COLB	SOXLB	PM10LB	PM25LB	CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB	COLB	SOXLB
650.4930445	0.766405804	40.20745903	36.99086231	2012	001000	Construction	C.1 Well Drilling	52.98183477	1.182571348	No Reduction	No Reduction
855.7315035	1.008083983	52.13380846	47.96310378	2012	002000	Construction	C.1 Well Drilling	327.5646411	7.307553774	No Reduction	No Reduction
1060.969963	1.249762162	64.06015789	58.93534526	2012	003000	Construction	C.1 Well Drilling	269.3338683	6.006562449	No Reduction	No Reduction
1266.208422	1.491440341	75.98650732	69.90758673	2012	004000	Construction	C.1 Well Drilling	60.4745586	1.348380161	No Reduction	No Reduction
1676.68534	1.974796699	99.83920617	91.85206968	2012	005000	Construction	C.1 Well Drilling	139.0358751	3.099166353	No Reduction	No Reduction
3961.954751	4.661204512	182.7774876	168.1552886	2012	006000	Construction	C.1 Well Drilling	5.91713193	0.136480037	No Reduction	No Reduction
4747.390168	5.585171161	218.447303	200.9715188	2012	007000	Construction	C.1 Well Drilling	4.527147126	0.104382929	No Reduction	No Reduction
5925.543293	6.971121135	271.9520261	250.195864	2012	008000	Construction	C.1 Well Drilling	2.957590453	0.068169286	No Reduction	No Reduction
7103.696418	8.357071108	325.4567491	299.4202092	2012	009000	Construction	C.1 Well Drilling	5.091636667	0.117328822	No Reduction	No Reduction
9067.284959	10.66698773	414.6312876	381.4607846	2012	010000	Construction	C.1 Well Drilling	4.13967077	0.095367435	No Reduction	No Reduction
13484.46933	15.8601023	592.2478825	544.8680519	2012	011000	Construction	C.1 Well Drilling	5.970769912	0.136778827	No Reduction	No Reduction
16846.89225	19.81478506	739.2027504	680.0665304	2012	012000	Construction	C.1 Well Drilling	8.060041371	0.184614267	No Reduction	No Reduction
20689.6613	24.3344225	907.1511709	834.5790772	2012	013000	Construction	C.1 Well Drilling	7.334726457	0.167983544	No Reduction	No Reduction
25493.12261	29.9839693	1117.086697	1027.719761	2012	014000	Construction	C.1 Well Drilling	2.712039887	0.062107141	No Reduction	No Reduction
31257.27618	36.76342545	1369.009327	1259.488581	2012	015000	Construction	C.1 Well Drilling	0.554331026	0.012693604	No Reduction	No Reduction
650.4930445	0.766405804	36.05112075	33.16703109	2015	001000	Construction	C.1 Well Drilling	43.30403774	0.990840156	No Reduction	No Reduction
855.7315035	1.008083983	46.72603737	42.98795438	2015	002000	Construction	C.1 Well Drilling	281.54328	6.441994896	No Reduction	No Reduction
1060.969963	1.249762162	57.40095398	52.80887767	2015	003000	Construction	C.1 Well Drilling	252.0482695	5.767119128	No Reduction	No Reduction
1266.208422	1.491440341	68.0758706	62.62980095	2015	004000	Construction	C.1 Well Drilling	58.45374761	1.337480822	No Reduction	No Reduction
1676.68534	1.974796699	89.42570384	82.27164753	2015	005000	Construction	C.1 Well Drilling	129.7780451	2.969452858	No Reduction	No Reduction
3961.954751	4.661204512	183.9929422	169.2735068	2015	006000	Construction	C.1 Well Drilling	6.502211282	0.162133113	No Reduction	No Reduction
4747.390168	5.585171161	219.9862565	202.387356	2015	007000	Construction	C.1 Well Drilling	4.821864557	0.120233548	No Reduction	No Reduction
5925.543293	6.971121135	273.9762279	252.0581296	2015	008000	Construction	C.1 Well Drilling	2.739695765	0.068314516	No Reduction	No Reduction
7103.696418	8.357071108	327.9661993	301.7289033	2015	009000	Construction	C.1 Well Drilling	4.865699673	0.12132658	No Reduction	No Reduction
9067.284959	10.66698773	417.9494849	384.5135261	2015	010000	Construction	C.1 Well Drilling	5.545144222	0.138268575	No Reduction	No Reduction
13484.46933	15.8601023	602.454831	554.2584445	2015	011000	Construction	C.1 Well Drilling	6.341482458	0.158125331	No Reduction	No Reduction
16846.89225	19.81478506	752.061946	691.8969903	2015	012000	Construction	C.1 Well Drilling	10.48390246	0.261416876	No Reduction	No Reduction
20689.6613	24.3344225	923.041506	849.1981855	2015	013000	Construction	C.1 Well Drilling	11.30946413	0.282002312	No Reduction	No Reduction
25493.12261	29.9839693	1136.765956	1045.82468	2015	014000	Construction	C.1 Well Drilling	3.87210335	0.096551179	No Reduction	No Reduction
31257.27618	36.76342545	1393.235296	1281.776472	2015	015000	Construction	C.1 Well Drilling	0.949761198	0.023682365	No Reduction	No Reduction
650.4930445	0.766405804	33.77182493	31.07007894	2016	001000	Construction	C.1 Well Drilling	41.14506533	0.944302994	No Reduction	No Reduction
855.7315035	1.008083983	43.76261426	40.26160512	2016	002000	Construction	C.1 Well Drilling	267.8239479	6.147975069	No Reduction	No Reduction
1060.969963	1.249762162	53.7534036	49.45313131	2016	003000	Construction	C.1 Well Drilling	239.8743451	5.50708493	No Reduction	No Reduction
1266.208422	1.491440341	63.74419293	58.64465749	2016	004000	Construction	C.1 Well Drilling	55.53003166	1.274980543	No Reduction	No Reduction
1676.68534	1.974796699	83.72577159	77.02770987	2016	005000	Construction	C.1 Well Drilling	123.2813869	2.830878067	No Reduction	No Reduction
3961.954751	4.661204512	178.7846588	164.4818861	2016	006000	Construction	C.1 Well Drilling	6.393360699	0.15869793	No Reduction	No Reduction
4747.390168	5.585171161	213.7816992	196.6791633	2016	007000	Construction	C.1 Well Drilling	4.741390448	0.117696667	No Reduction	No Reduction
5925.543293	6.971121135	266.2772598	244.975079	2016	008000	Construction	C.1 Well Drilling	2.694112427	0.06687914	No Reduction	No Reduction
7103.696418	8.357071108	318.7728203	293.2709947	2016	009000	Construction	C.1 Well Drilling	4.784910618	0.118784532	No Reduction	No Reduction
9067.284959	10.66698773	406.2654213	373.7641876	2016	010000	Construction	C.1 Well Drilling	5.453281141	0.135380484	No Reduction	No Reduction
13484.46933	15.8601023	587.6133242	540.6042583	2016	011000	Construction	C.1 Well Drilling	6.250441665	0.155226607	No Reduction	No Reduction
16846.89225	19.81478506	733.5667911	674.8814478	2016	012000	Construction	C.1 Well Drilling	10.33359643	0.256633674	No Reduction	No Reduction
20689.6613	24.3344225	900.3707532	828.3410929	2016	013000	Construction	C.1 Well Drilling	11.14748687	0.276849728	No Reduction	No Reduction
25493.12261	29.9839693	1108.875706	1020.165649	2016	014000	Construction	C.1 Well Drilling	3.816692615	0.09478911	No Reduction	No Reduction
31257.27618	36.76342545	1359.081649	1250.355117	2016	015000	Construction	C.1 Well Drilling	0.936178965	0.02325056	No Reduction	No Reduction
650.4930445	0.766405804	31.39998534	28.88798652	2017	001000	Construction	C.1 Well Drilling	38.70422311	0.89127142	No Reduction	No Reduction

		Wells Drilled Each Year	Amount of Drilling Emissions Reduced in Changing 250<hp<750 Engines to Tier 4f in tons/year					
PM10LB	PM25LB		CALYEAR	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB
1.701671163	1.565537541	305	2012	8.0797298	0.18034213	No Reduction	No Reduction	0.25950485	0.23874448
10.52292897	9.681094448	1414	2012	231.588201	5.16644052	No Reduction	No Reduction	7.43971078	6.84453377
8.65343547	7.961160634	930	2012	125.240249	2.79305154	No Reduction	No Reduction	4.02384749	3.70193969
1.943168599	1.787715134	174	2012	5.2612866	0.11730907	No Reduction	No Reduction	0.16905567	0.15553122
4.468036308	4.110593543	300	2012	20.8553813	0.46487495	No Reduction	No Reduction	0.67020545	0.61658903
0.219517404	0.201956011	69	2012	0.20414105	0.00470856	No Reduction	No Reduction	0.00757335	0.00696748
0.16791263	0.154479625	44	2012	0.09959724	0.00229642	No Reduction	No Reduction	0.00369408	0.00339855
0.109672258	0.100898483	23	2012	0.03401229	0.00078395	No Reduction	No Reduction	0.00126123	0.00116033
0.188776939	0.173674775	33.00	2012	0.084012	0.00193593	No Reduction	No Reduction	0.00311482	0.00286563
0.153455933	0.141179468	21	2012	0.04346654	0.00100136	No Reduction	No Reduction	0.00161129	0.00148238
0.220381609	0.202751085	25	2012	0.07463462	0.00170974	No Reduction	No Reduction	0.00275477	0.00253439
0.297467863	0.273670436	27	2012	0.10881056	0.00249229	No Reduction	No Reduction	0.00401582	0.00369455
0.270679388	0.249025035	20	2012	0.07334726	0.00167984	No Reduction	No Reduction	0.00270679	0.00249025
0.100078602	0.092072313	6	2012	0.00813612	0.00018632	No Reduction	No Reduction	0.00030024	0.00027622
0.020454722	0.018818345	1	2012	0.00027717	6.3468E-06	No Reduction	No Reduction	1.0227E-05	9.4092E-06
1.381954035	1.27139777	323	2015	6.9936021	0.16002069	No Reduction	No Reduction	0.22318558	0.20533074
8.984841519	8.266054025	1575	2015	221.715333	5.07307098	No Reduction	No Reduction	7.0755627	6.50951754
8.043571929	7.400086176	1128	2015	142.155224	3.25265519	No Reduction	No Reduction	4.53657457	4.1736486
1.865424104	1.716190198	218	2015	6.37145849	0.14578541	No Reduction	No Reduction	0.20333123	0.18706473
4.141583725	3.810257157	363	2015	23.5547152	0.53895569	No Reduction	No Reduction	0.75169745	0.69156167
0.243776293	0.224274188	89	2015	0.2893484	0.00721492	No Reduction	No Reduction	0.01084805	0.0099802
0.180777915	0.166315688	55	2015	0.13260128	0.00330642	No Reduction	No Reduction	0.00497139	0.00457368
0.102714717	0.094497545	25	2015	0.0342462	0.00085393	No Reduction	No Reduction	0.00128393	0.00118122
0.182421348	0.167827632	37.00	2015	0.09001544	0.00224454	No Reduction	No Reduction	0.00337479	0.00310481
0.207894589	0.191263035	33.00	2015	0.09149488	0.00228143	No Reduction	No Reduction	0.00343026	0.00315584
0.237750338	0.218730317	31	2015	0.09829298	0.00245094	No Reduction	No Reduction	0.00368513	0.00339032
0.393054995	0.361610598	41	2015	0.21492	0.00535905	No Reduction	No Reduction	0.00805763	0.00741302
0.424006378	0.390085864	36	2015	0.20357035	0.00507604	No Reduction	No Reduction	0.00763211	0.00702155
0.145170139	0.133556527	10	2015	0.01936052	0.00048276	No Reduction	No Reduction	0.00072585	0.00066778
0.03560777	0.032759149	2	2015	0.00094976	2.3682E-05	No Reduction	No Reduction	3.5608E-05	3.2759E-05
1.293277018	1.189814911	323	2016	6.64492805	0.15250493	No Reduction	No Reduction	0.20886424	0.19215511
8.417208114	7.743831304	1577	2016	211.179183	4.84767834	No Reduction	No Reduction	6.6369686	6.10601098
7.538194777	6.935139197	1130	2016	135.529005	3.11150299	No Reduction	No Reduction	4.25908005	3.91835365
1.744966967	1.60536963	218	2016	6.05277345	0.13897288	No Reduction	No Reduction	0.1902014	0.17498529
3.873695152	3.563799661	363	2016	22.3755717	0.51380437	No Reduction	No Reduction	0.70307567	0.64682964
0.236637058	0.217706092	89	2016	0.28450455	0.00706206	No Reduction	No Reduction	0.01053035	0.00968792
0.175502194	0.161462025	55	2016	0.13038824	0.00323666	No Reduction	No Reduction	0.00482631	0.00444021
0.099727763	0.091749546	25	2016	0.03367641	0.00083599	No Reduction	No Reduction	0.0012466	0.00114687
0.17712916	0.162958819	37	2016	0.08852085	0.00219751	No Reduction	No Reduction	0.00327689	0.00301474
0.201879144	0.185728825	33	2016	0.08997914	0.00223378	No Reduction	No Reduction	0.00333101	0.00306453
0.2316597	0.21312693	31	2016	0.09688185	0.00240601	No Reduction	No Reduction	0.00359073	0.00330347
0.383002466	0.352362272	41	2016	0.21183873	0.00526099	No Reduction	No Reduction	0.00785155	0.00722343
0.413175672	0.380121614	36	2016	0.20065476	0.0049833	No Reduction	No Reduction	0.00743716	0.00684219
0.14146575	0.130148489	10	2016	0.01908346	0.00047395	No Reduction	No Reduction	0.00070733	0.00065074
0.034699887	0.031923896	2	2016	0.00093618	2.3251E-05	No Reduction	No Reduction	3.47E-05	3.1924E-05
1.200633916	1.104583253	323	2017	6.25073203	0.14394033	No Reduction	No Reduction	0.19390238	0.1783902

VERA Emissions (tons/year)	Wells Drilled Each Year	VERA Emissions (tons/year-well)	VERA Fee Reduction	Year
8.519576785	305			
244.1943526	1414			
132.0571478	930			
5.54765134	174			
21.99046167	300			
0.216422963	69			
0.105587739	44			
0.036057468	23			
0.08906275	33.00			
0.046079188	21			
0.079099129	25			
0.115318667	27			
0.077733894	20			
0.008622677	6			
0.00029374	1			
7.376808357	323	0.022838416	159.2751129	2015
233.8639667	1575	0.148485058	1035.534796	2015
149.9444538	1128	0.13292948	927.0501955	2015
6.720575126	218	0.030828326	214.9967474	2015
24.84536832	363	0.068444541	477.3322278	2015
0.307411371	89	0.00345406	24.08861684	2015
0.140879091	55	0.002561438	17.86346868	2015
0.036384062	25	0.001455362	10.14969807	2015
0.095634781	37.00	0.002584724	18.02586379	2015
0.097206572	33.00	0.002945654	20.54298886	2015
0.104429051	31	0.003368679	23.49316779	2015
0.228336674	41	0.005569187	38.83951129	2015
0.216278511	36	0.006007736	41.89795371	2015
0.020569123	10	0.002056912	14.34490662	2015
0.001009051	2	0.000504526	3.518562	2015
7.006297223	323	0.021691323	151.2752843	2016
222.6638299	1577	0.141194566	984.6909	2016
142.899588	1130	0.126459812	881.9307317	2016
6.381947729	218	0.02927499	204.1637774	2016
23.59245176	363	0.06499298	453.261043	2016
0.302096958	89	0.003394348	23.67218186	2016
0.138451206	55	0.002517295	17.55561292	2016
0.035758992	25	0.00143036	9.975328303	2016
0.09399525	37	0.002540412	17.71683437	2016
0.095543923	33	0.00289527	20.19161566	2016
0.102878584	31	0.003318664	23.14436264	2016
0.224951268	41	0.005486616	38.26366198	2016
0.213075221	36	0.005918756	41.27740529	2016
0.020264737	10	0.002026474	14.13262784	2016
0.000994129	2	0.000497065	3.466529261	2016
6.588574744	323	0.020398064	142.2560999	2017

Amount of Construction - Well Drilling Emissions Reduced in C				
Year	NOX	ROG	CO	SOX
2015	401.97	9.20	0.00	0.00
2016	382.94	8.79	0.00	0.00
2017	361.71	8.34	0.00	0.00
2018	311.28	7.23	0.00	0.00
2019	287.53	6.77	0.00	0.00
2020	239.05	6.07	0.00	0.00
2021	229.89	5.90	0.00	0.00
2022	173.13	4.95	0.00	0.00
2023	159.24	4.75	0.00	0.00
2024	141.62	4.55	0.00	0.00
2025	131.82	4.40	0.00	0.00
2026	126.49	4.37	0.00	0.00
2027	120.97	4.32	0.00	0.00
2028	112.47	4.26	0.00	0.00
2029	108.65	4.15	0.00	0.00
2030	108.82	4.16	0.00	0.00
2031	109.02	4.17	0.00	0.00
2032	109.11	4.17	0.00	0.00
2033	109.15	4.17	0.00	0.00
2034	109.35	4.18	0.00	0.00
2035	109.58	4.19	0.00	0.00

Changing 250<hp<750 Engines to Tier 4f		
PM10	PM25	VERA Fee Reduction Per Well
12.83	11.81	$3,026.95
12.04	11.08	$2,884.72
11.23	10.33	$2,728.28
9.30	8.55	$2,364.92
8.42	7.75	$2,164.24
7.11	6.54	$1,824.76
6.60	6.07	$1,755.43
4.97	4.57	$1,358.10
4.39	4.04	$1,258.56
3.89	3.57	$1,137.51
3.49	3.21	$1,067.81
3.22	2.96	$985.63
2.96	2.73	$946.41
2.73	2.51	$886.70
2.63	2.42	$859.29
2.63	2.42	$859.34
2.64	2.43	$859.40
2.64	2.43	$859.24
2.64	2.43	$859.66
2.65	2.44	$859.45
2.65	2.44	$859.46
	Average:	**$1,447.90**

	2000	26.80%	10.15%	No Reduct	No Reduct	19.25%	19.25%	2017	002000	Construction	C.1 Well Drilling	942.654357	57.33159172
	3000	19.38%	7.37%	No Reduct	No Reduct	14.01%	14.01%	2017	003000	Construction	C.1 Well Drilling	1166.168005	70.66328112
	4000	3.78%	1.44%	No Reduct	No Reduct	2.75%	2.75%	2017	004000	Construction	C.1 Well Drilling	1389.681653	83.99497053
	5000	6.32%	2.42%	No Reduct	No Reduct	4.62%	4.62%	2017	005000	Construction	C.1 Well Drilling	1836.70895	110.6583493
	6000	0.13%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2017	006000	Construction	C.1 Well Drilling	4995.849988	257.5406623
	7000	0.08%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2017	007000	Construction	C.1 Well Drilling	5985.300033	308.2478279
2017	8000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2017	008000	Construction	C.1 Well Drilling	7469.4751	384.3085764
	9000	0.05%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2017	009000	Construction	C.1 Well Drilling	8953.650168	460.3693248
	10000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2017	010000	Construction	C.1 Well Drilling	11427.27528	587.1372389
	11000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2017	011000	Construction	C.1 Well Drilling	17043.46992	860.972981
	12000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2017	012000	Construction	C.1 Well Drilling	21292.18745	1075.215018
	13000	0.04%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2017	013000	Construction	C.1 Well Drilling	26147.86464	1320.06306
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2017	014000	Construction	C.1 Well Drilling	32217.46112	1626.123112
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2017	015000	Construction	C.1 Well Drilling	39500.9769	1993.395175
	1000	5.41%	2.04%	No Reduct	No Reduct	3.84%	3.84%	2018	001000	Construction	C.1 Well Drilling	618.2650511	38.07086535
	2000	26.78%	10.14%	No Reduct	No Reduct	19.24%	19.24%	2018	002000	Construction	C.1 Well Drilling	810.1939548	49.62555854
	3000	19.38%	7.37%	No Reduct	No Reduct	14.02%	14.02%	2018	003000	Construction	C.1 Well Drilling	1002.122858	61.18025173
	4000	3.77%	1.44%	No Reduct	No Reduct	2.74%	2.74%	2018	004000	Construction	C.1 Well Drilling	1194.051762	72.73494492
	5000	6.33%	2.42%	No Reduct	No Reduct	4.63%	4.63%	2018	005000	Construction	C.1 Well Drilling	1577.909569	95.84433131
	6000	0.13%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2018	006000	Construction	C.1 Well Drilling	4823.38249	244.8783498
	7000	0.08%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2018	007000	Construction	C.1 Well Drilling	5779.56332	293.1726627
2018	8000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2018	008000	Construction	C.1 Well Drilling	7213.834565	365.6141319
	9000	0.05%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2018	009000	Construction	C.1 Well Drilling	8648.10581	438.0556011
	10000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2018	010000	Construction	C.1 Well Drilling	11038.55788	558.7913832
	11000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2018	011000	Construction	C.1 Well Drilling	16557.08617	825.6487898
	12000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2018	012000	Construction	C.1 Well Drilling	20685.73813	1031.209291
	13000	0.04%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2018	013000	Construction	C.1 Well Drilling	25404.19751	1266.135578
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2018	014000	Construction	C.1 Well Drilling	31302.27173	1559.793436
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2018	015000	Construction	C.1 Well Drilling	38379.9608	1912.182867
	1000	5.40%	2.03%	No Reduct	No Reduct	3.84%	3.84%	2019	001000	Construction	C.1 Well Drilling	569.7563561	35.5442175
	2000	26.81%	10.15%	No Reduct	No Reduct	19.26%	19.26%	2019	002000	Construction	C.1 Well Drilling	746.8582133	46.37616294
	3000	19.37%	7.37%	No Reduct	No Reduct	14.01%	14.01%	2019	003000	Construction	C.1 Well Drilling	923.9600705	57.20810837
	4000	3.77%	1.44%	No Reduct	No Reduct	2.74%	2.74%	2019	004000	Construction	C.1 Well Drilling	1101.061928	68.04005381
	5000	6.33%	2.42%	No Reduct	No Reduct	4.63%	4.63%	2019	005000	Construction	C.1 Well Drilling	1455.265642	89.70394468
	6000	0.13%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2019	006000	Construction	C.1 Well Drilling	4096.004555	186.2976253
	7000	0.08%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2019	007000	Construction	C.1 Well Drilling	4907.51531	222.9474742
2019	8000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2019	008000	Construction	C.1 Well Drilling	6124.781441	277.9222474
	9000	0.05%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2019	009000	Construction	C.1 Well Drilling	7342.047572	332.8970206
	10000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2019	010000	Construction	C.1 Well Drilling	9370.824458	424.5216427
	11000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2019	011000	Construction	C.1 Well Drilling	14035.91596	622.1002856
	12000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2019	012000	Construction	C.1 Well Drilling	17535.28226	776.8632618
	13000	0.04%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2019	013000	Construction	C.1 Well Drilling	21534.55802	953.7352345
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2019	014000	Construction	C.1 Well Drilling	26533.65273	1174.8252
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2019	015000	Construction	C.1 Well Drilling	32532.56637	1440.133159
	1000	5.41%	2.04%	No Reduct	No Reduct	3.84%	3.84%	2020	001000	Construction	C.1 Well Drilling	473.7173815	31.85752448
	2000	26.80%	10.15%	No Reduct	No Reduct	19.25%	19.25%	2020	002000	Construction	C.1 Well Drilling	619.9858554	41.56484144
	3000	19.37%	7.37%	No Reduct	No Reduct	14.01%	14.01%	2020	003000	Construction	C.1 Well Drilling	766.2543294	51.27215841
	4000	3.78%	1.44%	No Reduct	No Reduct	2.75%	2.75%	2020	004000	Construction	C.1 Well Drilling	912.5228033	60.97947537
	5000	6.33%	2.42%	No Reduct	No Reduct	4.62%	4.62%	2020	005000	Construction	C.1 Well Drilling	1205.059751	80.39410929
	6000	0.13%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2020	006000	Construction	C.1 Well Drilling	4023.834188	181.5986855

855.7315035	1.008083983	40.71607697	37.45879081	2017	002000	Construction	C.1 Well Drilling	252.6519377	5.820714089	No Reduction	No Reduction
1060.969963	1.249762162	50.0321686	46.02959511	2017	003000	Construction	C.1 Well Drilling	225.955393	5.207182383	No Reduction	No Reduction
1266.208422	1.491440341	59.34826023	54.60039941	2017	004000	Construction	C.1 Well Drilling	52.50802909	1.210298233	No Reduction	No Reduction
1676.68534	1.974796699	77.98044349	71.74200801	2017	005000	Construction	C.1 Well Drilling	116.0588012	2.675812715	No Reduction	No Reduction
3961.954751	4.661204512	174.9119482	160.9189923	2017	006000	Construction	C.1 Well Drilling	6.324299289	0.156358329	No Reduction	No Reduction
4747.390168	5.585171161	209.2039957	192.4676761	2017	007000	Construction	C.1 Well Drilling	4.690708762	0.115982383	No Reduction	No Reduction
5925.543293	6.971121135	260.6420671	239.7907017	2017	008000	Construction	C.1 Well Drilling	2.665619595	0.065916944	No Reduction	No Reduction
7103.696418	8.357071108	312.0801384	287.1137273	2017	009000	Construction	C.1 Well Drilling	4.734667863	0.117089745	No Reduction	No Reduction
9067.284959	10.66698773	397.8102572	365.9854367	2017	010000	Construction	C.1 Well Drilling	5.396470208	0.133466542	No Reduction	No Reduction
13484.46933	15.8601023	577.269724	531.0881461	2017	011000	Construction	C.1 Well Drilling	6.195102247	0.153355633	No Reduction	No Reduction
16846.89225	19.81478506	720.7242274	663.0662892	2017	012000	Construction	C.1 Well Drilling	10.24252891	0.253557452	No Reduction	No Reduction
20689.6613	24.3344225	884.6722312	813.8984527	2017	013000	Construction	C.1 Well Drilling	11.04958656	0.273544873	No Reduction	No Reduction
25493.12261	29.9839693	1089.607236	1002.438657	2017	014000	Construction	C.1 Well Drilling	3.783269488	0.093661454	No Reduction	No Reduction
31257.27618	36.76342545	1335.529242	1228.686903	2017	015000	Construction	C.1 Well Drilling	0.92799949	0.022974716	No Reduction	No Reduction
650.4930445	0.766405804	25.96951865	23.89195716	2018	001000	Construction	C.1 Well Drilling	33.43067435	0.774777456	No Reduction	No Reduction
855.7315035	1.008083983	33.66149016	30.96857094	2018	002000	Construction	C.1 Well Drilling	216.9596052	5.0339327	No Reduction	No Reduction
1060.969963	1.249762162	41.35346166	38.04518473	2018	003000	Construction	C.1 Well Drilling	194.220462	4.509544476	No Reduction	No Reduction
1266.208422	1.491440341	49.04543317	45.12179851	2018	004000	Construction	C.1 Well Drilling	45.04832702	1.046471371	No Reduction	No Reduction
1676.68534	1.974796699	64.42937617	59.27502608	2018	005000	Construction	C.1 Well Drilling	99.82969095	2.320480033	No Reduction	No Reduction
3961.954751	4.661204512	163.1964128	150.1406998	2018	006000	Construction	C.1 Well Drilling	6.096770503	0.148446759	No Reduction	No Reduction
4747.390168	5.585171161	195.2569746	179.6364166	2018	007000	Construction	C.1 Well Drilling	4.522646978	0.110143936	No Reduction	No Reduction
5925.543293	6.971121135	243.3478172	223.8799918	2018	008000	Construction	C.1 Well Drilling	2.570510527	0.062615966	No Reduction	No Reduction
7103.696418	8.357071108	291.4386598	268.123567	2018	009000	Construction	C.1 Well Drilling	4.566206116	0.111246624	No Reduction	No Reduction
9067.284959	10.66698773	371.5900642	341.862859	2018	010000	Construction	C.1 Well Drilling	5.205045781	0.126831638	No Reduction	No Reduction
13484.46933	15.8601023	544.5728937	501.0070622	2018	011000	Construction	C.1 Well Drilling	6.009239168	0.146842131	No Reduction	No Reduction
16846.89225	19.81478506	679.9927161	625.5932988	2018	012000	Construction	C.1 Well Drilling	9.935805012	0.242813592	No Reduction	No Reduction
20689.6613	24.3344225	834.7582274	767.9775692	2018	013000	Construction	C.1 Well Drilling	10.71915129	0.261974629	No Reduction	No Reduction
25493.12261	29.9839693	1028.215117	945.9579072	2018	014000	Construction	C.1 Well Drilling	3.670260941	0.089705626	No Reduction	No Reduction
31257.27618	36.76342545	1260.363384	1159.534313	2018	015000	Construction	C.1 Well Drilling	0.900304763	0.022005503	No Reduction	No Reduction
650.4930445	0.766405804	23.45834049	21.58167325	2019	001000	Construction	C.1 Well Drilling	30.7613736	0.722269525	No Reduction	No Reduction
855.7315035	1.008083983	30.43243937	27.99784422	2019	002000	Construction	C.1 Well Drilling	200.2031261	4.709118513	No Reduction	No Reduction
1060.969963	1.249762162	37.40653826	34.4140152	2019	003000	Construction	C.1 Well Drilling	178.9602049	4.21413315	No Reduction	No Reduction
1266.208422	1.491440341	44.38063715	40.83018618	2019	004000	Construction	C.1 Well Drilling	41.47757576	0.977450992	No Reduction	No Reduction
1676.68534	1.974796699	58.32883492	53.66252813	2019	005000	Construction	C.1 Well Drilling	92.18440981	2.174505609	No Reduction	No Reduction
3961.954751	4.661204512	124.3601064	114.4112979	2019	006000	Construction	C.1 Well Drilling	5.169573114	0.112764853	No Reduction	No Reduction
4747.390168	5.585171161	148.7249189	136.8269254	2019	007000	Construction	C.1 Well Drilling	3.83447078	0.083634561	No Reduction	No Reduction
5925.543293	6.971121135	185.2721377	170.4503667	2019	008000	Construction	C.1 Well Drilling	2.179163973	0.047526029	No Reduction	No Reduction
7103.696418	8.357071108	221.8193565	204.0738079	2019	009000	Construction	C.1 Well Drilling	3.870774016	0.084413832	No Reduction	No Reduction
9067.284959	10.66698773	282.7313878	260.1128767	2019	010000	Construction	C.1 Well Drilling	4.412006288	0.096210804	No Reduction	No Reduction
13484.46933	15.8601023	411.1971285	378.3013582	2019	011000	Construction	C.1 Well Drilling	5.086539783	0.110474447	No Reduction	No Reduction
16846.89225	19.81478506	513.3623997	472.2934077	2019	012000	Construction	C.1 Well Drilling	8.409901409	0.182648818	No Reduction	No Reduction
20689.6613	24.3344225	630.1227096	579.7128928	2019	013000	Construction	C.1 Well Drilling	9.072709156	0.197039345	No Reduction	No Reduction
25493.12261	29.9839693	776.073097	713.9872492	2019	014000	Construction	C.1 Well Drilling	3.106449025	0.067463979	No Reduction	No Reduction
31257.27618	36.76342545	951.2135618	875.1164769	2019	015000	Construction	C.1 Well Drilling	0.761990315	0.016548195	No Reduction	No Reduction
650.4930445	0.766405804	19.78680255	18.20385834	2020	001000	Construction	C.1 Well Drilling	25.61634677	0.648371156	No Reduction	No Reduction
855.7315035	1.008083983	25.64783746	23.59601046	2020	002000	Construction	C.1 Well Drilling	166.1532647	4.219542247	No Reduction	No Reduction
1060.969963	1.249762162	31.50887236	28.98816257	2020	003000	Construction	C.1 Well Drilling	148.4528612	3.777849319	No Reduction	No Reduction
1266.208422	1.491440341	37.36990727	34.38031469	2020	004000	Construction	C.1 Well Drilling	34.48029718	0.878698089	No Reduction	No Reduction
1676.68534	1.974796699	49.09197709	45.16461892	2020	005000	Construction	C.1 Well Drilling	76.22033863	1.945899058	No Reduction	No Reduction
3961.954751	4.661204512	119.4004227	109.8483889	2020	006000	Construction	C.1 Well Drilling	5.070857618	0.109755484	No Reduction	No Reduction

7.839259516	7.212118604	1581	2017	199.721357	4.60127449	No Reduction	No Reduction	6.19693465	5.70117976
7.01195316	6.450996909	1131	2017	127.777775	2.94466164	No Reduction	No Reduction	3.96525951	3.64803875
1.629619931	1.499250356	219	2017	5.74962919	0.13252766	No Reduction	No Reduction	0.17844338	0.16416791
3.602434667	3.314240006	363	2017	21.0646724	0.48566001	No Reduction	No Reduction	0.65384189	0.60153456
0.231161825	0.212668878	89	2017	0.28143132	0.00695795	No Reduction	No Reduction	0.0102867	0.00946377
0.171484998	0.157766204	55	2017	0.12899449	0.00318952	No Reduction	No Reduction	0.00471584	0.00433857
0.097469927	0.089672337	25	2017	0.03332024	0.00082396	No Reduction	No Reduction	0.00121837	0.0011209
0.173148622	0.159296724	37	2017	0.08759136	0.00216616	No Reduction	No Reduction	0.00320325	0.00294699
0.197379345	0.18158901	33	2017	0.08904176	0.0022022	No Reduction	No Reduction	0.00325676	0.00299622
0.227238423	0.209059354	31	2017	0.09602408	0.00237701	No Reduction	No Reduction	0.0035222	0.00324042
0.375729384	0.345671036	41	2017	0.20997184	0.00519793	No Reduction	No Reduction	0.00770245	0.00708626
0.405359064	0.372930336	36	2017	0.19889256	0.00492381	No Reduction	No Reduction	0.00729646	0.00671275
0.138797789	0.127693965	10	2017	0.01891635	0.00046831	No Reduction	No Reduction	0.00069399	0.00063847
0.034047094	0.031323326	2	2017	0.000928	2.2975E-05	No Reduction	No Reduction	3.4047E-05	3.1323E-05
0.997633492	0.917822855	325	2018	5.43248458	0.12590134	No Reduction	No Reduction	0.16211544	0.14914621
6.475334116	5.957307263	1582	2018	171.615048	3.98184077	No Reduction	No Reduction	5.12198929	4.71223004
5.797142471	5.333371074	1133	2018	110.025892	2.55465695	No Reduction	No Reduction	3.28408121	3.02135471
1.344689551	1.237114402	219	2018	4.93279181	0.11458862	No Reduction	No Reduction	0.14724351	0.13546403
2.980123194	2.741713431	364	2018	18.1690038	0.42232737	No Reduction	No Reduction	0.54238242	0.49899184
0.215353714	0.198125416	89	2018	0.27130629	0.00660588	No Reduction	No Reduction	0.00958324	0.00881658
0.159811428	0.14702652	55	2018	0.12437279	0.00302896	No Reduction	No Reduction	0.00439481	0.00404323
0.090865433	0.083596203	25	2018	0.03213138	0.0007827	No Reduction	No Reduction	0.00113582	0.00104495
0.161452655	0.148536435	37	2018	0.08447481	0.00205806	No Reduction	No Reduction	0.00298687	0.00274792
0.18409201	0.169364661	33	2018	0.08588326	0.00209272	No Reduction	No Reduction	0.00303752	0.00279452
0.214044526	0.196920969	31	2018	0.09314321	0.00227605	No Reduction	No Reduction	0.00331769	0.00305228
0.353961005	0.325644128	41	2018	0.203684	0.00497768	No Reduction	No Reduction	0.0072562	0.0066757
0.381912015	0.351359051	36	2018	0.19294472	0.00471554	No Reduction	No Reduction	0.00687442	0.00632446
0.130780102	0.120317693	10	2018	0.0183513	0.00044853	No Reduction	No Reduction	0.0006539	0.00060159
0.032082451	0.029515855	2	2018	0.0009003	2.2006E-05	No Reduction	No Reduction	3.2082E-05	2.9516E-05
0.899809372	0.82782466	325	2019	4.99872321	0.1173688	No Reduction	No Reduction	0.14621902	0.13452151
5.860145778	5.391334003	1586	2019	158.761079	3.73433098	No Reduction	No Reduction	4.6470956	4.27532786
5.240574189	4.821328255	1134	2019	101.470436	2.3894135	No Reduction	No Reduction	2.97140556	2.73369312
1.214963118	1.117766083	219	2019	4.54179455	0.10703088	No Reduction	No Reduction	0.13303846	0.12239539
2.701289807	2.485186707	365	2019	16.8236548	0.39684727	No Reduction	No Reduction	0.49298539	0.45354657
0.16385849	0.15074981	89	2019	0.230046	0.00501804	No Reduction	No Reduction	0.0072917	0.00670837
0.121543328	0.111819866	55	2019	0.10544795	0.00229995	No Reduction	No Reduction	0.00334244	0.00307505
0.069076045	0.063549965	25	2019	0.02723955	0.00059408	No Reduction	No Reduction	0.00086345	0.00079437
0.122699721	0.112883738	37	2019	0.07160932	0.00156166	No Reduction	No Reduction	0.00226994	0.00208835
0.13985918	0.128670454	33	2019	0.0727981	0.00158748	No Reduction	No Reduction	0.00230768	0.00212306
0.161377984	0.148467749	31	2019	0.07884137	0.00171235	No Reduction	No Reduction	0.00250136	0.00230125
0.266821807	0.245476065	41	2019	0.17240298	0.0037443	No Reduction	No Reduction	0.00546985	0.00503226
0.287855049	0.264826643	36	2019	0.16330876	0.00354671	No Reduction	No Reduction	0.00518139	0.00476688
0.0985613	0.090676395	10	2019	0.01553225	0.00033732	No Reduction	No Reduction	0.00049281	0.00045338
0.024176638	0.022242507	2	2019	0.00076199	1.6548E-05	No Reduction	No Reduction	2.4177E-05	2.2243E-05
0.760169035	0.699355544	326	2020	4.17546452	0.1056845	No Reduction	No Reduction	0.12390755	0.11399495
4.937610309	4.542601389	1588	2020	131.925692	3.35031654	No Reduction	No Reduction	3.92046259	3.6068255
4.415466372	4.062229063	1136	2020	84.3212252	2.14581841	No Reduction	No Reduction	2.5079849	2.30734611
1.026165092	0.944071897	220	2020	3.79283269	0.09665679	No Reduction	No Reduction	0.11287816	0.10384791
2.27010262	2.088494482	365	2020	13.9102118	0.35512658	No Reduction	No Reduction	0.41429373	0.38115024
0.157087207	0.14452023	89	2020	0.22565316	0.00488412	No Reduction	No Reduction	0.00699038	0.00643115

210.5195659	1581	0.133155956	928.6296347	2017
134.6876959	1131	0.119087264	830.5145811	2017
6.060600224	219	0.027673974	192.9982921	2017
22.20417431	363	0.061168524	426.5892883	2017
0.298675965	89	0.00335591	23.4041144	2017
0.136899844	55	0.002489088	17.35890021	2017
0.035362581	25	0.001414503	9.864745547	2017
0.092960765	37	0.002512453	17.52184803	2017
0.094500716	33	0.002863658	19.97115122	2017
0.101923293	31	0.003287848	22.92945301	2017
0.222872223	41	0.005435908	37.91002151	2017
0.211112829	36	0.005864245	40.89724635	2017
0.020078644	10	0.002007864	14.00284608	2017
0.000985021	2	0.000492511	3.434769272	2017
5.720501361	325	0.017601543	122.7531584	2018
180.7188777	1582	0.114234436	796.6709566	2018
115.8646299	1133	0.102263574	713.1861684	2018
5.19462393	219	0.023719744	165.4214945	2018
19.13371354	364	0.052565147	366.5893358	2018
0.287495408	89	0.003230285	22.52801099	2018
0.131796564	55	0.002396301	16.71180437	2018
0.034049899	25	0.001361996	9.498559848	2018
0.08951975	37	0.002419453	16.87326311	2018
0.091013496	33	0.002757985	19.2341854	2018
0.09873695	31	0.003185063	22.21262875	2018
0.215917882	41	0.00526629	36.7271051	2018
0.204534683	36	0.005681519	39.62291329	2018
0.019453733	10	0.001945373	13.56703363	2018
0.000954393	2	0.000477196	3.327967405	2018
5.26231103	325	0.016191726	112.9210988	2019
167.1425056	1586	0.105386195	734.9633254	2019
106.8312553	1134	0.094207456	657.0027991	2019
4.78186389	219	0.021834995	152.2772547	2019
17.71348745	365	0.048530103	338.4489356	2019
0.242355742	89	0.002723098	18.99088705	2019
0.111090338	55	0.002019824	14.08625491	2019
0.028697076	25	0.001147883	8.005336206	2019
0.07544092	37	0.002038944	14.21959396	2019
0.076693258	33	0.002324038	16.20784196	2019
0.083055079	31	0.002679196	18.68471365	2019
0.181617127	41	0.004429686	30.89263028	2019
0.172036864	36	0.004778802	33.32736358	2019
0.016362372	10	0.001636237	11.4111179	2019
0.000802715	2	0.000401358	2.799067721	2019
4.405056575	326	0.013512443	94.23578083	2020
139.1964713	1588	0.087655209	611.3074249	2020
88.97502847	1136	0.078323088	546.2252188	2020
4.00236764	220	0.01819258	126.8750542	2020
14.67963211	365	0.04021817	280.4815187	2020
0.237527664	89	0.00266885	18.61256098	2020

	7000	0.08%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2020	007000	Construction	C.1 Well Drilling	4821.618634	217.3713079
2020	8000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2020	008000	Construction	C.1 Well Drilling	6018.295302	271.0302415
	9000	0.05%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2020	009000	Construction	C.1 Well Drilling	7214.971971	324.6891751
	10000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2020	010000	Construction	C.1 Well Drilling	9209.433085	414.1207311
	11000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2020	011000	Construction	C.1 Well Drilling	13837.57353	609.3806479
	12000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2020	012000	Construction	C.1 Well Drilling	17288.23892	761.0419164
	13000	0.04%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2020	013000	Construction	C.1 Well Drilling	21231.85651	934.3690805
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2020	014000	Construction	C.1 Well Drilling	26161.3785	1151.028036
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2020	015000	Construction	C.1 Well Drilling	32076.80488	1411.018782
	1000	5.40%	2.03%	No Reduct	No Reduct	3.84%	3.84%	2021	001000	Construction	C.1 Well Drilling	454.0675786	30.83737278
	2000	26.79%	10.15%	No Reduct	No Reduct	19.25%	19.25%	2021	002000	Construction	C.1 Well Drilling	594.768133	40.29517785
	3000	19.40%	7.38%	No Reduct	No Reduct	14.03%	14.03%	2021	003000	Construction	C.1 Well Drilling	735.4686874	49.75298292
	4000	3.77%	1.44%	No Reduct	No Reduct	2.74%	2.74%	2021	004000	Construction	C.1 Well Drilling	876.1692418	59.21078799
	5000	6.33%	2.42%	No Reduct	No Reduct	4.63%	4.63%	2021	005000	Construction	C.1 Well Drilling	1157.570351	78.12639812
	6000	0.13%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2021	006000	Construction	C.1 Well Drilling	3979.529499	180.8457994
	7000	0.08%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2021	007000	Construction	C.1 Well Drilling	4769.042215	216.5221677
2021	8000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2021	008000	Construction	C.1 Well Drilling	5953.31129	270.0367203
	9000	0.05%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2021	009000	Construction	C.1 Well Drilling	7137.580365	323.5512728
	10000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2021	010000	Construction	C.1 Well Drilling	9111.362157	412.7421937
	11000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2021	011000	Construction	C.1 Well Drilling	13724.00099	609.9411943
	12000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2021	012000	Construction	C.1 Well Drilling	17147.00976	761.8105034
	13000	0.04%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2021	013000	Construction	C.1 Well Drilling	21059.01979	935.3754282
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2021	014000	Construction	C.1 Well Drilling	25949.03232	1152.331584
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2021	015000	Construction	C.1 Well Drilling	31817.04735	1412.678971
	1000	5.39%	2.03%	No Reduct	No Reduct	3.83%	3.83%	2022	001000	Construction	C.1 Well Drilling	341.9227276	25.77051109
	2000	26.84%	10.17%	No Reduct	No Reduct	19.28%	19.28%	2022	002000	Construction	C.1 Well Drilling	446.6023834	33.65855547
	3000	19.38%	7.37%	No Reduct	No Reduct	14.02%	14.02%	2022	003000	Construction	C.1 Well Drilling	551.2820392	41.54659984
	4000	3.77%	1.44%	No Reduct	No Reduct	2.74%	2.74%	2022	004000	Construction	C.1 Well Drilling	655.961695	49.43464421
	5000	6.32%	2.42%	No Reduct	No Reduct	4.62%	4.62%	2022	005000	Construction	C.1 Well Drilling	865.3210066	65.21073296
	6000	0.13%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2022	006000	Construction	C.1 Well Drilling	3920.329107	178.9607315
	7000	0.08%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2022	007000	Construction	C.1 Well Drilling	4698.818176	214.3316023
2022	8000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2022	008000	Construction	C.1 Well Drilling	5866.55178	267.3879083
	9000	0.05%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2022	009000	Construction	C.1 Well Drilling	7034.285384	320.4442144
	10000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2022	010000	Construction	C.1 Well Drilling	8980.508058	408.8713912
	11000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2022	011000	Construction	C.1 Well Drilling	13571.14572	607.5116973
	12000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2022	012000	Construction	C.1 Well Drilling	16956.96121	758.8630271
	13000	0.04%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2022	013000	Construction	C.1 Well Drilling	20826.46463	931.8359755
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2022	014000	Construction	C.1 Well Drilling	25663.3439	1148.052161
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2022	015000	Construction	C.1 Well Drilling	31467.59903	1407.511583
	1000	5.40%	2.03%	No Reduct	No Reduct	3.84%	3.84%	2023	001000	Construction	C.1 Well Drilling	313.9175079	24.67658143
	2000	26.85%	10.17%	No Reduct	No Reduct	19.29%	19.29%	2023	002000	Construction	C.1 Well Drilling	410.0209101	32.26580395
	3000	19.37%	7.37%	No Reduct	No Reduct	14.01%	14.01%	2023	003000	Construction	C.1 Well Drilling	506.1243122	39.85502648
	4000	3.78%	1.44%	No Reduct	No Reduct	2.75%	2.75%	2023	004000	Construction	C.1 Well Drilling	602.2277144	47.444249
	5000	6.31%	2.42%	No Reduct	No Reduct	4.62%	4.62%	2023	005000	Construction	C.1 Well Drilling	794.4345188	62.62269405
	6000	0.13%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2023	006000	Construction	C.1 Well Drilling	3880.922951	178.4587114
	7000	0.08%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2023	007000	Construction	C.1 Well Drilling	4651.986081	213.7686709
2023	8000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2023	008000	Construction	C.1 Well Drilling	5808.580775	266.7336101
	9000	0.05%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2023	009000	Construction	C.1 Well Drilling	6965.17547	319.6985494
	10000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2023	010000	Construction	C.1 Well Drilling	8892.833295	407.9734481
	11000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2023	011000	Construction	C.1 Well Drilling	13468.3814	608.4672392

4747.390168	5.585171161	142.8397677	131.4125863	2020	007000	Construction	C.1 Well Drilling	3.761696175	0.081420269	No Reduction	No Reduction
5925.543293	6.971121135	177.9987851	163.7588823	2020	008000	Construction	C.1 Well Drilling	2.138060043	0.046277838	No Reduction	No Reduction
7103.696418	8.357071108	213.1578026	196.1051784	2020	009000	Construction	C.1 Well Drilling	3.798064714	0.082208857	No Reduction	No Reduction
9067.284959	10.66698773	271.756165	250.0156718	2020	010000	Construction	C.1 Well Drilling	4.329505605	0.093712617	No Reduction	No Reduction
13484.46933	15.8601023	397.7571575	365.9365849	2020	011000	Construction	C.1 Well Drilling	5.007128268	0.108053088	No Reduction	No Reduction
16846.89225	19.81478506	496.6455224	456.9138806	2020	012000	Construction	C.1 Well Drilling	8.278963892	0.178660255	No Reduction	No Reduction
20689.6613	24.3344225	609.6607966	560.8879329	2020	013000	Construction	C.1 Well Drilling	8.931740275	0.192748353	No Reduction	No Reduction
25493.12261	29.9839693	750.9298894	690.8554982	2020	014000	Construction	C.1 Well Drilling	3.058263517	0.065998139	No Reduction	No Reduction
31257.27618	36.76342545	920.4528007	846.8165766	2020	015000	Construction	C.1 Well Drilling	0.750186628	0.016189292	No Reduction	No Reduction
650.4930445	0.766405804	18.29023578	16.82701692	2021	001000	Construction	C.1 Well Drilling	24.51694972	0.626667398	No Reduction	No Reduction
855.7315035	1.008083983	23.74861487	21.84872568	2021	002000	Construction	C.1 Well Drilling	159.3563906	4.089657928	No Reduction	No Reduction
1060.969963	1.249762162	29.20699396	26.87043444	2021	003000	Construction	C.1 Well Drilling	142.6504941	3.670080729	No Reduction	No Reduction
1266.208422	1.491440341	34.66537304	31.8921432	2021	004000	Construction	C.1 Well Drilling	33.05699306	0.851931955	No Reduction	No Reduction
1676.68534	1.974796699	45.58213122	41.93556072	2021	005000	Construction	C.1 Well Drilling	73.30708951	1.893346811	No Reduction	No Reduction
3961.954751	4.661204512	115.4316973	106.1971615	2021	006000	Construction	C.1 Well Drilling	5.007502072	0.1091365	No Reduction	No Reduction
4747.390168	5.585171161	138.135017	127.0842157	2021	007000	Construction	C.1 Well Drilling	3.715096462	0.080980556	No Reduction	No Reduction
5925.543293	6.971121135	172.1899967	158.4147969	2021	008000	Construction	C.1 Well Drilling	2.111801357	0.046039034	No Reduction	No Reduction
7103.696418	8.357071108	206.2449763	189.7453782	2021	009000	Construction	C.1 Well Drilling	3.751688676	0.081797867	No Reduction	No Reduction
9067.284959	10.66698773	263.0032757	241.9630136	2021	010000	Construction	C.1 Well Drilling	4.276975751	0.093260563	No Reduction	No Reduction
13484.46933	15.8601023	387.1571718	356.184598	2021	011000	Construction	C.1 Well Drilling	4.958582981	0.107990254	No Reduction	No Reduction
16846.89225	19.81478506	483.4676901	444.7902749	2021	012000	Construction	C.1 Well Drilling	8.199015305	0.178572425	No Reduction	No Reduction
20689.6613	24.3344225	593.5368539	546.0539056	2021	013000	Construction	C.1 Well Drilling	8.845743403	0.192666516	No Reduction	No Reduction
25493.12261	29.9839693	731.1233086	672.6334439	2021	014000	Construction	C.1 Well Drilling	3.028890102	0.065973773	No Reduction	No Reduction
31257.27618	36.76342545	896.2270543	824.5288899	2021	015000	Construction	C.1 Well Drilling	0.742995459	0.016184028	No Reduction	No Reduction
650.4930445	0.766405804	13.75387874	12.65356844	2022	001000	Construction	C.1 Well Drilling	18.43414327	0.522915853	No Reduction	No Reduction
855.7315035	1.008083983	17.82438787	16.39843684	2022	002000	Construction	C.1 Well Drilling	119.854802	3.421700471	No Reduction	No Reduction
1060.969963	1.249762162	21.89489701	20.14330525	2022	003000	Construction	C.1 Well Drilling	106.8594931	3.062824795	No Reduction	No Reduction
1266.208422	1.491440341	25.96540614	23.88817365	2022	004000	Construction	C.1 Well Drilling	24.71171402	0.71020631	No Reduction	No Reduction
1676.68534	1.974796699	34.10642441	31.37791045	2022	005000	Construction	C.1 Well Drilling	54.7173273	1.57797638	No Reduction	No Reduction
3961.954751	4.661204512	110.3747683	101.5447868	2022	006000	Construction	C.1 Well Drilling	4.925620894	0.107837147	No Reduction	No Reduction
4747.390168	5.585171161	132.1412517	121.5699516	2022	007000	Construction	C.1 Well Drilling	3.654909386	0.08004121	No Reduction	No Reduction
5925.543293	6.971121135	164.7909768	151.6076987	2022	008000	Construction	C.1 Well Drilling	2.077908537	0.045519154	No Reduction	No Reduction
7103.696418	8.357071108	197.4407019	181.6454457	2022	009000	Construction	C.1 Well Drilling	3.691856496	0.080891027	No Reduction	No Reduction
9067.284959	10.66698773	251.8569104	231.7083575	2022	010000	Construction	C.1 Well Drilling	4.20923751	0.09224757	No Reduction	No Reduction
13484.46933	15.8601023	373.7364222	343.8375084	2022	011000	Construction	C.1 Well Drilling	4.896011224	0.107399012	No Reduction	No Reduction
16846.89225	19.81478506	466.7849399	429.4421447	2022	012000	Construction	C.1 Well Drilling	8.095997679	0.177615099	No Reduction	No Reduction
20689.6613	24.3344225	573.126103	527.2760147	2022	013000	Construction	C.1 Well Drilling	8.734957254	0.191649992	No Reduction	No Reduction
25493.12261	29.9839693	706.0525568	649.5683523	2022	014000	Construction	C.1 Well Drilling	2.991056654	0.06563032	No Reduction	No Reduction
31257.27618	36.76342545	865.5643015	796.3191573	2022	015000	Construction	C.1 Well Drilling	0.733734499	0.016100678	No Reduction	No Reduction
650.4930445	0.766405804	12.11604117	11.14675788	2023	001000	Construction	C.1 Well Drilling	16.95081954	0.501503472	No Reduction	No Reduction
855.7315035	1.008083983	15.71365812	14.45656547	2023	002000	Construction	C.1 Well Drilling	110.0795171	3.281369334	No Reduction	No Reduction
1060.969963	1.249762162	19.31127507	17.76637307	2023	003000	Construction	C.1 Well Drilling	98.04541291	2.936301066	No Reduction	No Reduction
1266.208422	1.491440341	22.90889202	21.07618066	2023	004000	Construction	C.1 Well Drilling	22.75646195	0.683685397	No Reduction	No Reduction
1676.68534	1.974796699	30.10412592	27.69579585	2023	005000	Construction	C.1 Well Drilling	50.15979536	1.513084507	No Reduction	No Reduction
3961.954751	4.661204512	106.7825202	98.23991859	2023	006000	Construction	C.1 Well Drilling	4.868817511	0.107373823	No Reduction	No Reduction
4747.390168	5.585171161	127.8743862	117.6444353	2023	007000	Construction	C.1 Well Drilling	3.613070213	0.079711597	No Reduction	No Reduction
5925.543293	6.971121135	159.5121851	146.7512103	2023	008000	Construction	C.1 Well Drilling	2.054298613	0.045339861	No Reduction	No Reduction
7103.696418	8.357071108	191.1499841	175.8579854	2023	009000	Construction	C.1 Well Drilling	3.650118047	0.080582104	No Reduction	No Reduction
9067.284959	10.66698773	243.879649	224.3692771	2023	010000	Construction	C.1 Well Drilling	4.161910118	0.091907326	No Reduction	No Reduction
13484.46933	15.8601023	363.9836776	334.8649834	2023	011000	Construction	C.1 Well Drilling	4.851670722	0.107407068	No Reduction	No Reduction

0.116558408	0.10723374	55	2020	0.10344664	0.00223906	No Reduction	No Reduction	0.00320536	0.00294893
0.066264585	0.060963421	25	2020	0.02672575	0.00057847	No Reduction	No Reduction	0.00082831	0.00076204
0.117731441	0.10831292	37	2020	0.0702642	0.00152086	No Reduction	No Reduction	0.00217803	0.00200379
0.134228101	0.123489862	33	2020	0.07143684	0.00154626	No Reduction	No Reduction	0.00221476	0.00203758
0.15586884	0.143399337	31	2020	0.07761049	0.00167482	No Reduction	No Reduction	0.00241597	0.00222269
0.257745374	0.237125746	41	2020	0.16971876	0.00366254	No Reduction	No Reduction	0.00528378	0.00486108
0.278089171	0.255842035	36	2020	0.16077132	0.00346947	No Reduction	No Reduction	0.00500561	0.00460516
0.095224845	0.087606857	10	2020	0.01529132	0.00032999	No Reduction	No Reduction	0.00047612	0.00043803
0.023359658	0.021490886	2	2020	0.00075019	1.6189E-05	No Reduction	No Reduction	2.336E-05	2.1491E-05
0.701619948	0.645490382	326	2021	3.9962628	0.10214679	No Reduction	No Reduction	0.11436405	0.10521493
4.570871777	4.205201947	1590	2021	126.688331	3.25127805	No Reduction	No Reduction	3.63384306	3.34313555
4.097547939	3.769744105	1139	2021	81.2394564	2.09011098	No Reduction	No Reduction	2.33355355	2.14686927
0.950471642	0.874433922	220	2021	3.63626924	0.09371252	No Reduction	No Reduction	0.10455188	0.09618773
2.110405375	1.941573011	366	2021	13.4151974	0.34648247	No Reduction	No Reduction	0.38620418	0.35530786
0.15163802	0.139506977	89	2021	0.22283384	0.00485657	No Reduction	No Reduction	0.00674789	0.00620806
0.112550215	0.103546201	55	2021	0.10216515	0.00222697	No Reduction	No Reduction	0.00309513	0.00284752
0.064005962	0.058885488	25	2021	0.02639752	0.00057549	No Reduction	No Reduction	0.00080007	0.00073607
0.113742474	0.104643071	37	2021	0.06940624	0.00151326	No Reduction	No Reduction	0.00210424	0.0019359
0.129709943	0.119333156	33	2021	0.0705701	0.0015388	No Reduction	No Reduction	0.00214021	0.001969
0.151487458	0.139368465	31	2021	0.07685804	0.00167385	No Reduction	No Reduction	0.00234806	0.00216021
0.250530081	0.230487677	41	2021	0.16807981	0.00366073	No Reduction	No Reduction	0.00513587	0.004725
0.270328334	0.248702065	36	2021	0.15922338	0.003468	No Reduction	No Reduction	0.00486591	0.00447664
0.092574118	0.085168188	10	2021	0.01514445	0.00032987	No Reduction	No Reduction	0.00046287	0.00042584
0.022710729	0.020893871	2	2021	0.000743	1.6184E-05	No Reduction	No Reduction	2.2711E-05	2.0894E-05
0.526813459	0.484668404	326	2022	3.00476535	0.08523528	No Reduction	No Reduction	0.08587059	0.07900095
3.436275594	3.16137348	1595	2022	95.5842046	2.72880613	No Reduction	No Reduction	2.74042979	2.52119535
3.069801279	2.824217178	1140	2022	60.9099111	1.74581013	No Reduction	No Reduction	1.74978673	1.60980379
0.710865524	0.653996291	220	2022	2.71828854	0.07812269	No Reduction	No Reduction	0.07819521	0.07193959
1.576726967	1.450588859	366	2022	10.0132709	0.28876968	No Reduction	No Reduction	0.28854104	0.26545776
0.144777767	0.133195545	89	2022	0.21919013	0.00479875	No Reduction	No Reduction	0.00644261	0.0059272
0.107505332	0.098904909	55	2022	0.10051001	0.00220113	No Reduction	No Reduction	0.0029564	0.00271988
0.061163874	0.056270767	25	2022	0.02597386	0.00056899	No Reduction	No Reduction	0.00076455	0.00070338
0.108723901	0.100025984	37	2022	0.06829935	0.00149648	No Reduction	No Reduction	0.00201139	0.00185048
0.124026654	0.11410453	33	2022	0.06945242	0.00152208	No Reduction	No Reduction	0.00204644	0.00188272
0.146017141	0.134335773	31	2022	0.07588817	0.00166468	No Reduction	No Reduction	0.00226327	0.0020822
0.241522895	0.222201065	41	2022	0.16596795	0.00364111	No Reduction	No Reduction	0.00495122	0.00455512
0.260641228	0.239789927	36	2022	0.15722923	0.0034497	No Reduction	No Reduction	0.00469154	0.00431622
0.089265785	0.082124522	10	2022	0.01495528	0.00032815	No Reduction	No Reduction	0.00044633	0.00041062
0.021900872	0.020148802	2	2022	0.00073373	1.6101E-05	No Reduction	No Reduction	2.1901E-05	2.0149E-05
0.464806919	0.427622385	327	2023	2.771459	0.08199582	No Reduction	No Reduction	0.07599593	0.06991626
3.030517328	2.788075884	1598	2023	87.9535342	2.6218141	No Reduction	No Reduction	2.42138335	2.22767263
2.705883659	2.489412966	1141	2023	55.9349081	1.67515976	No Reduction	No Reduction	1.54370663	1.4202101
0.629094707	0.578767138	221	2023	2.51458905	0.07554724	No Reduction	No Reduction	0.06951497	0.06395377
1.389620928	1.278451298	366	2023	9.17924255	0.27689446	No Reduction	No Reduction	0.25430063	0.23395659
0.139856371	0.128667861	89	2023	0.21666238	0.00477814	No Reduction	No Reduction	0.00622361	0.00572572
0.103878381	0.095568114	55	2023	0.09935943	0.00219207	No Reduction	No Reduction	0.00285666	0.00262812
0.059116055	0.054386773	25	2023	0.02567873	0.00056675	No Reduction	No Reduction	0.00073895	0.00067983
0.105102398	0.096694202	37	2023	0.06752718	0.00149077	No Reduction	No Reduction	0.00194439	0.00178884
0.119918652	0.110325168	33	2023	0.06867152	0.00151647	No Reduction	No Reduction	0.00197866	0.00182037
0.141994115	0.130634589	31	2023	0.0752009	0.00166481	No Reduction	No Reduction	0.00220091	0.00202484

0.108891058	55	0.001979837	13.80738621	2020
0.028132531	25	0.001125301	7.847850795	2020
0.073963093	37	0.001999003	13.94104348	2020
0.075197864	33	0.002278723	15.89181533	2020
0.081701278	31	0.002635525	18.38015204	2020
0.178665075	41	0.004357685	30.39049352	2020
0.1692464	36	0.004701289	32.78678879	2020
0.016097433	10	0.001609743	11.22634943	2020
0.000789736	2	0.000394868	2.753807962	2020
4.212773641	326	0.012922619	90.12234164	2021
133.5734516	1590	0.08400846	585.875001	2021
85.66312092	1139	0.075209061	524.5079941	2021
3.834533632	220	0.017429698	121.5547161	2021
14.14788403	366	0.038655421	269.582905	2021
0.234438308	89	0.002634138	18.37048047	2021
0.107487249	55	0.001954314	13.62938316	2021
0.027773079	25	0.001110923	7.747578231	2021
0.073023737	37	0.001973615	13.76398758	2021
0.074249113	33	0.002249973	15.6913126	2021
0.080879941	31	0.00260903	18.19537764	2021
0.176876415	41	0.004314059	30.08624681	2021
0.167557289	36	0.004654369	32.45957029	2021
0.01593719	10	0.001593719	11.11459628	2021
0.00078189	2	0.000390945	2.726451185	2021
3.175871232	326	0.009741936	67.94026371	2022
101.0534405	1595	0.063356389	441.8474572	2022
64.40550796	1140	0.05649606	394.0035197	2022
2.874606444	220	0.013066393	91.12502426	2022
10.59058161	366	0.028936015	201.7997709	2022
0.230431493	89	0.002589118	18.05650826	2022
0.105667538	55	0.001921228	13.39864382	2022
0.027307395	25	0.001092296	7.61767079	2022
0.071807221	37	0.001940736	13.53469085	2022
0.073020944	33	0.002212756	15.43175942	2022
0.079816124	31	0.002574714	17.95605326	2022
0.174560281	41	0.004257568	29.69227809	2022
0.165370473	36	0.004593624	32.03593543	2022
0.015729764	10	0.001572976	10.96993727	2022
0.000771736	2	0.000385868	2.691043603	2022
2.929450744	327	0.008958565	62.47703208	2023
92.99673163	1598	0.058195702	405.856825	2023
59.15377445	1141	0.051843799	361.558653	2023
2.659651247	221	0.012034621	83.92944703	2023
9.710437646	366	0.02653125	185.0289403	2023
0.227664123	89	0.002558024	17.83965835	2023
0.104408155	55	0.00189833	13.23895409	2023
0.026984432	25	0.001079377	7.527577042	2023
0.070962347	37	0.001917901	13.37544349	2023
0.072166646	33	0.002186868	15.25121777	2023
0.079066615	31	0.002550536	17.78743773	2023

	12000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2023	012000	Construction	C.1 Well Drilling	16829.07493	760.1068205
	13000	0.04%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2023	013000	Construction	C.1 Well Drilling	20669.86753	933.4091991
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2023	014000	Construction	C.1 Well Drilling	25470.85828	1150.037172
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2023	015000	Construction	C.1 Well Drilling	31232.04718	1409.99074
	1000	5.39%	2.03%	No Reduct	No Reduct	3.83%	3.83%	2024	001000	Construction	C.1 Well Drilling	279.1916833	23.5733669
	2000	26.82%	10.16%	No Reduct	No Reduct	19.27%	19.27%	2024	002000	Construction	C.1 Well Drilling	364.3215201	30.8390318
	3000	19.36%	7.36%	No Reduct	No Reduct	14.00%	14.00%	2024	003000	Construction	C.1 Well Drilling	449.451357	38.1046967
	4000	3.77%	1.44%	No Reduct	No Reduct	2.74%	2.74%	2024	004000	Construction	C.1 Well Drilling	534.5811938	45.3703616
	5000	6.34%	2.43%	No Reduct	No Reduct	4.63%	4.63%	2024	005000	Construction	C.1 Well Drilling	704.8408675	59.9016914
	6000	0.13%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2024	006000	Construction	C.1 Well Drilling	3872.359814	180.2189412
	7000	0.08%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2024	007000	Construction	C.1 Well Drilling	4642.071342	215.9074549
2024	8000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2024	008000	Construction	C.1 Well Drilling	5796.638635	269.4402256
	9000	0.05%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2024	009000	Construction	C.1 Well Drilling	6951.205927	322.9729963
	10000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2024	010000	Construction	C.1 Well Drilling	8875.484748	412.1942808
	11000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2024	011000	Construction	C.1 Well Drilling	13456.8761	615.976267
	12000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2024	012000	Construction	C.1 Well Drilling	16815.14459	769.5262407
	13000	0.04%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2024	013000	Construction	C.1 Well Drilling	20653.16571	945.0119249
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2024	014000	Construction	C.1 Well Drilling	25450.69211	1164.36903
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2024	015000	Construction	C.1 Well Drilling	31207.7238	1427.597556
	1000	5.40%	2.03%	No Reduct	No Reduct	3.84%	3.84%	2025	001000	Construction	C.1 Well Drilling	259.2889181	22.75828312
	2000	26.82%	10.16%	No Reduct	No Reduct	19.26%	19.26%	2025	002000	Construction	C.1 Well Drilling	338.491929	29.80596118
	3000	19.36%	7.36%	No Reduct	No Reduct	14.01%	14.01%	2025	003000	Construction	C.1 Well Drilling	417.6949398	36.85363923
	4000	3.77%	1.44%	No Reduct	No Reduct	2.74%	2.74%	2025	004000	Construction	C.1 Well Drilling	496.8979507	43.90131728
	5000	6.33%	2.42%	No Reduct	No Reduct	4.63%	4.63%	2025	005000	Construction	C.1 Well Drilling	655.3039724	57.99667339
	6000	0.13%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2025	006000	Construction	C.1 Well Drilling	3854.5428	181.183546
	7000	0.08%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2025	007000	Construction	C.1 Well Drilling	4621.115383	217.0972054
2025	8000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2025	008000	Construction	C.1 Well Drilling	5770.974257	270.9676945
	9000	0.05%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2025	009000	Construction	C.1 Well Drilling	6920.833131	324.8381836
	10000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2025	010000	Construction	C.1 Well Drilling	8837.264589	414.6223321
	11000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2025	011000	Construction	C.1 Well Drilling	13418.10925	621.1381394
	12000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2025	012000	Construction	C.1 Well Drilling	16767.21659	776.018862
	13000	0.04%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2025	013000	Construction	C.1 Well Drilling	20594.76783	953.0254021
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2025	014000	Construction	C.1 Well Drilling	25379.20689	1174.283577
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2025	015000	Construction	C.1 Well Drilling	31120.53376	1439.793387
	1000	5.39%	2.03%	No Reduct	No Reduct	3.83%	3.83%	2026	001000	Construction	C.1 Well Drilling	248.7099637	22.54780152
	2000	26.81%	10.16%	No Reduct	No Reduct	19.26%	19.26%	2026	002000	Construction	C.1 Well Drilling	324.8772241	29.55905691
	3000	19.37%	7.37%	No Reduct	No Reduct	14.01%	14.01%	2026	003000	Construction	C.1 Well Drilling	401.0444845	36.5703123
	4000	3.78%	1.44%	No Reduct	No Reduct	2.75%	2.75%	2026	004000	Construction	C.1 Well Drilling	477.2117449	43.58156769
	5000	6.32%	2.42%	No Reduct	No Reduct	4.62%	4.62%	2026	005000	Construction	C.1 Well Drilling	629.5462656	57.60407848
	6000	0.13%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2026	006000	Construction	C.1 Well Drilling	2751.246266	132.6260497
	7000	0.08%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2026	007000	Construction	C.1 Well Drilling	3297.453882	158.8484526
2026	8000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2026	008000	Construction	C.1 Well Drilling	4116.765307	198.1820569
	9000	0.05%	0.03%	No Reduct	No Reduct	0.05%	0.05%	2026	009000	Construction	C.1 Well Drilling	4936.076732	237.5156612
	10000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2026	010000	Construction	C.1 Well Drilling	6301.595774	303.0716684
	11000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2026	011000	Construction	C.1 Well Drilling	9527.043073	450.2183429
	12000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2026	012000	Construction	C.1 Well Drilling	11903.7518	562.3944198
	13000	0.04%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2026	013000	Construction	C.1 Well Drilling	14619.99034	690.5956505
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2026	014000	Construction	C.1 Well Drilling	18015.28851	850.8471889
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2026	015000	Construction	C.1 Well Drilling	22089.64632	1043.149035
	1000	5.40%	2.03%	No Reduct	No Reduct	3.84%	3.84%	2027	001000	Construction	C.1 Well Drilling	237.4394104	22.28579071

16846.89225	19.81478506	454.6487994	418.2768955	2023	012000	Construction	C.1 Well Drilling	8.022922795	0.177640153	No Reduction	No Reduction
20689.6613	24.3344225	558.2660815	513.604795	2023	013000	Construction	C.1 Well Drilling	8.656312867	0.191686457	No Reduction	No Reduction
25493.12261	29.9839693	687.7876841	632.7646694	2023	014000	Construction	C.1 Well Drilling	2.964182886	0.065645476	No Reduction	No Reduction
31257.27618	36.76342545	843.2136073	775.7565187	2023	015000	Construction	C.1 Well Drilling	0.727153007	0.016104916	No Reduction	No Reduction
650.4930445	0.766405804	10.7065109	9.849990027	2024	001000	Construction	C.1 Well Drilling	15.05319306	0.47836738	No Reduction	No Reduction
855.7315035	1.008083983	13.88905201	12.77792785	2024	002000	Construction	C.1 Well Drilling	97.72552601	3.133545751	No Reduction	No Reduction
1060.969963	1.249762162	17.07159313	15.70586568	2024	003000	Construction	C.1 Well Drilling	87.01301709	2.805610908	No Reduction	No Reduction
1266.208422	1.491440341	20.25413424	18.6338035	2024	004000	Construction	C.1 Well Drilling	20.17012882	0.652823771	No Reduction	No Reduction
1676.68534	1.974796699	26.61921647	24.48967915	2024	005000	Construction	C.1 Well Drilling	44.67930943	1.453075726	No Reduction	No Reduction
3961.954751	4.661204512	105.3744057	96.94445324	2024	006000	Construction	C.1 Well Drilling	4.959827343	0.110704041	No Reduction	No Reduction
4747.390168	5.585171161	126.2175093	116.1201086	2024	007000	Construction	C.1 Well Drilling	3.59998588	0.080388899	No Reduction	No Reduction
5925.543293	6.971121135	157.4821648	144.8835916	2024	008000	Construction	C.1 Well Drilling	2.047013745	0.045731544	No Reduction	No Reduction
7103.696418	8.357071108	188.7468202	173.6470746	2024	009000	Construction	C.1 Well Drilling	3.637357555	0.081285885	No Reduction	No Reduction
9067.284959	10.66698773	240.8545793	221.5862129	2024	010000	Construction	C.1 Well Drilling	4.147588099	0.092719522	No Reduction	No Reduction
13484.46933	15.8601023	360.6164814	331.7671629	2024	011000	Construction	C.1 Well Drilling	4.84028749	0.108570199	No Reduction	No Reduction
16846.89225	19.81478506	450.4808799	414.4424095	2024	012000	Construction	C.1 Well Drilling	8.004311228	0.179572957	No Reduction	No Reduction
20689.6613	24.3344225	553.1830496	508.9284056	2024	013000	Construction	C.1 Well Drilling	8.636402472	0.193779412	No Reduction	No Reduction
25493.12261	29.9839693	681.5607616	627.0359007	2024	014000	Construction	C.1 Well Drilling	2.957413187	0.066364307	No Reduction	No Reduction
31257.27618	36.76342545	835.6140162	768.7648949	2024	015000	Construction	C.1 Well Drilling	0.725501706	0.016281672	No Reduction	No Reduction
650.4930445	0.766405804	9.567177173	8.801802999	2025	001000	Construction	C.1 Well Drilling	14.00193836	0.462548726	No Reduction	No Reduction
855.7315035	1.008083983	12.43192262	11.43736881	2025	002000	Construction	C.1 Well Drilling	90.77501673	3.027842392	No Reduction	No Reduction
1060.969963	1.249762162	15.29666807	14.07293462	2025	003000	Construction	C.1 Well Drilling	80.88586358	2.71419592	No Reduction	No Reduction
1266.208422	1.491440341	18.16141351	16.70850043	2025	004000	Construction	C.1 Well Drilling	18.7203585	0.63074415	No Reduction	No Reduction
1676.68534	1.974796699	23.8909044	21.97963205	2025	005000	Construction	C.1 Well Drilling	41.47726734	1.404766709	No Reduction	No Reduction
3961.954751	4.661204512	103.286051	95.02316693	2025	006000	Construction	C.1 Well Drilling	4.929645468	0.111130625	No Reduction	No Reduction
4747.390168	5.585171161	123.7486731	113.8487792	2025	007000	Construction	C.1 Well Drilling	3.643452374	0.082178834	No Reduction	No Reduction
5925.543293	6.971121135	154.4426061	142.0871976	2025	008000	Construction	C.1 Well Drilling	2.034911982	0.045922224	No Reduction	No Reduction
7103.696418	8.357071108	185.1365392	170.325616	2025	009000	Construction	C.1 Well Drilling	3.616064585	0.081633414	No Reduction	No Reduction
9067.284959	10.66698773	236.2930943	217.3896467	2025	010000	Construction	C.1 Well Drilling	4.123569854	0.093126627	No Reduction	No Reduction
13484.46933	15.8601023	355.2807659	326.8583046	2025	011000	Construction	C.1 Well Drilling	4.819147149	0.109316775	No Reduction	No Reduction
16846.89225	19.81478506	443.8577221	408.3491044	2025	012000	Construction	C.1 Well Drilling	7.969595799	0.180818032	No Reduction	No Reduction
20689.6613	24.3344225	545.0885293	501.481447	2025	013000	Construction	C.1 Well Drilling	8.599141676	0.19513123	No Reduction	No Reduction
25493.12261	29.9839693	671.6270382	617.8968752	2025	014000	Construction	C.1 Well Drilling	2.944709208	0.0668296	No Reduction	No Reduction
31257.27618	36.76342545	823.473249	757.5953891	2025	015000	Construction	C.1 Well Drilling	0.722396015	0.01639628	No Reduction	No Reduction
650.4930445	0.766405804	8.829692143	8.123316771	2026	001000	Construction	C.1 Well Drilling	13.41066506	0.457588522	No Reduction	No Reduction
855.7315035	1.008083983	11.49217578	10.57280172	2026	002000	Construction	C.1 Well Drilling	87.10285733	3.0020355	No Reduction	No Reduction
1060.969963	1.249762162	14.15465942	13.02228666	2026	003000	Construction	C.1 Well Drilling	77.68147792	2.694021153	No Reduction	No Reduction
1266.208422	1.491440341	16.81714305	15.47177161	2026	004000	Construction	C.1 Well Drilling	18.03315461	0.628047014	No Reduction	No Reduction
1676.68534	1.974796699	22.14211033	20.3707415	2026	005000	Construction	C.1 Well Drilling	39.78761559	1.393180163	No Reduction	No Reduction
3961.954751	4.661204512	61.34753113	56.43972864	2026	006000	Construction	C.1 Well Drilling	3.51338066	0.081226317	No Reduction	No Reduction
4747.390168	5.585171161	73.44858911	67.57270198	2026	007000	Construction	C.1 Well Drilling	2.595959668	0.060040135	No Reduction	No Reduction
5925.543293	6.971121135	91.60017608	84.27216199	2026	008000	Construction	C.1 Well Drilling	1.449457638	0.03353688	No Reduction	No Reduction
7103.696418	8.357071108	109.751763	100.971622	2026	009000	Construction	C.1 Well Drilling	2.575209873	0.059599973	No Reduction	No Reduction
9067.284959	10.66698773	140.004408	128.8040554	2026	010000	Construction	C.1 Well Drilling	2.936019699	0.067970341	No Reduction	No Reduction
13484.46933	15.8601023	208.1908107	191.5355459	2026	011000	Construction	C.1 Well Drilling	3.416566817	0.079117895	No Reduction	No Reduction
16846.89225	19.81478506	260.0279531	239.2257169	2026	012000	Construction	C.1 Well Drilling	5.649527279	0.130846885	No Reduction	No Reduction
20689.6613	24.3344225	319.2704015	293.7287694	2026	013000	Construction	C.1 Well Drilling	6.264659033	0.145110318	No Reduction	No Reduction
25493.12261	29.9839693	393.3234621	361.8575851	2026	014000	Construction	C.1 Well Drilling	2.087173326	0.048350433	No Reduction	No Reduction
31257.27618	36.76342545	482.1871347	443.6121639	2026	015000	Construction	C.1 Well Drilling	0.512000038	0.011861632	No Reduction	No Reduction
650.4930445	0.766405804	8.101693118	7.453557668	2027	001000	Construction	C.1 Well Drilling	12.82288891	0.452975705	No Reduction	No Reduction

0.234891629	0.2161003	41	2023	0.16446992	0.00364162	No Reduction	No Reduction	0.00481528	0.00443006
0.253503633	0.23322334	36	2023	0.15581363	0.00345036	No Reduction	No Reduction	0.00456307	0.00419802
0.086826524	0.079880401	10	2023	0.01482091	0.00032823	No Reduction	No Reduction	0.00043413	0.0003994
0.021303438	0.019599163	2	2023	0.00072715	1.6105E-05	No Reduction	No Reduction	2.1303E-05	1.9599E-05
0.410119859	0.377310287	327	2024	2.46119707	0.07821307	No Reduction	No Reduction	0.0670546	0.06169023
2.676299769	2.462195736	1599	2024	78.131558	2.50526983	No Reduction	No Reduction	2.13970167	1.96852549
2.390582152	2.19933558	1142	2024	49.6844328	1.60200383	No Reduction	No Reduction	1.36502241	1.25582062
0.55536259	0.510933589	221	2024	2.22879923	0.07213703	No Reduction	No Reduction	0.06136757	0.05645816
1.233625442	1.134935445	368	2024	8.22099293	0.26736593	No Reduction	No Reduction	0.22698708	0.20882812
0.140902794	0.12963057	91	2024	0.22567214	0.00503703	No Reduction	No Reduction	0.00641108	0.00589819
0.102379312	0.094188971	55	2024	0.09899961	0.00221069	No Reduction	No Reduction	0.00281543	0.0025902
0.058276565	0.053614443	25	2024	0.02558767	0.00057164	No Reduction	No Reduction	0.00072846	0.00067018
0.103626062	0.095335973	37	2024	0.06729111	0.00150379	No Reduction	No Reduction	0.00191708	0.00176372
0.118254337	0.108793997	33	2024	0.0684352	0.00152987	No Reduction	No Reduction	0.0019512	0.0017951
0.140470459	0.129232825	31	2024	0.07502446	0.00168284	No Reduction	No Reduction	0.00217729	0.00200311
0.232390754	0.213799496	41	2024	0.16408838	0.00368125	No Reduction	No Reduction	0.00476401	0.00438289
0.250820368	0.230754736	36	2024	0.15545524	0.00348803	No Reduction	No Reduction	0.00451477	0.00415359
0.085911953	0.079038996	10	2024	0.01478707	0.00033182	No Reduction	No Reduction	0.00042956	0.00039519
0.021079912	0.01939352	2	2024	0.0007255	1.6282E-05	No Reduction	No Reduction	2.108E-05	1.9394E-05
0.367049557	0.337685607	328	2025	2.29631789	0.07585799	No Reduction	No Reduction	0.06019613	0.05538044
2.394943537	2.203348008	1601	2025	72.6654009	2.42378783	No Reduction	No Reduction	1.9171523	1.76378008
2.142586404	1.971179493	1144	2025	46.266714	1.55252007	No Reduction	No Reduction	1.22555942	1.12751467
0.497238268	0.457459212	221	2025	2.06859961	0.06969723	No Reduction	No Reduction	0.05494483	0.05054924
1.105535265	1.017092478	368	2025	7.63181719	0.25847707	No Reduction	No Reduction	0.20341849	0.18714502
0.137904393	0.126872041	91	2025	0.22429887	0.00505644	No Reduction	No Reduction	0.00627465	0.00577268
0.102049398	0.09388545	56	2025	0.10201667	0.00230101	No Reduction	No Reduction	0.00285738	0.00262879
0.057066555	0.052501233	25	2025	0.0254364	0.00057403	No Reduction	No Reduction	0.00071333	0.00065627
0.101492384	0.093372989	37	2025	0.06689719	0.00151022	No Reduction	No Reduction	0.00187761	0.0017274
0.115841763	0.106574429	33	2025	0.0680389	0.00153659	No Reduction	No Reduction	0.00191139	0.00175848
0.138185694	0.127130842	31	2025	0.07469678	0.00169441	No Reduction	No Reduction	0.00214188	0.00197053
0.228632636	0.210342027	41	2025	0.16337671	0.00370677	No Reduction	No Reduction	0.00468697	0.00431201
0.246781693	0.227039156	36	2025	0.15478455	0.00351236	No Reduction	No Reduction	0.00444207	0.0040867
0.084533557	0.077770872	10	2025	0.01472355	0.00033415	No Reduction	No Reduction	0.00042267	0.00038885
0.020742665	0.019083251	2	2025	0.0007224	1.6396E-05	No Reduction	No Reduction	2.0743E-05	1.9083E-05
0.338251222	0.311191139	328	2026	2.19934907	0.07504452	No Reduction	No Reduction	0.0554732	0.05103535
2.213371723	2.036301943	1603	2026	69.8129402	2.40613145	No Reduction	No Reduction	1.77401744	1.63209601
1.983135757	1.824484897	1146	2026	44.5114868	1.54367412	No Reduction	No Reduction	1.13633679	1.04542985
0.461828514	0.424882238	222	2026	2.00168016	0.06971322	No Reduction	No Reduction	0.05126297	0.04716193
1.023085539	0.941238728	368	2026	7.32092127	0.25634515	No Reduction	No Reduction	0.18824774	0.17318793
0.081787408	0.075244415	91	2026	0.15985882	0.0036958	No Reduction	No Reduction	0.00372133	0.00342362
0.060479234	0.055640897	56	2026	0.07268687	0.00168112	No Reduction	No Reduction	0.00169342	0.00155795
0.03379588	0.031092212	25	2026	0.01811822	0.00041921	No Reduction	No Reduction	0.00042245	0.00038865
0.060076655	0.05527052	37	2026	0.04764138	0.0011026	No Reduction	No Reduction	0.00111142	0.0010225
0.068534424	0.063051674	33	2026	0.04844433	0.00112151	No Reduction	No Reduction	0.00113082	0.00104035
0.080854812	0.074386429	31	2026	0.05295679	0.00122633	No Reduction	No Reduction	0.00125325	0.00115299
0.133741875	0.123042526	41	2026	0.11581531	0.00268236	No Reduction	No Reduction	0.00274171	0.00252237
0.148339464	0.136472305	37	2026	0.11589619	0.00268454	No Reduction	No Reduction	0.00274428	0.00252474
0.049431496	0.045476976	10	2026	0.01043587	0.00024175	No Reduction	No Reduction	0.00024716	0.00022738
0.012127844	0.011157616	2	2026	0.000512	1.1862E-05	No Reduction	No Reduction	1.2128E-05	1.1158E-05
0.310846187	0.285978505	329	2027	2.10936522	0.0745145	No Reduction	No Reduction	0.0511342	0.04704346

0.172926819	41	0.004217727	29.41443011	2023
0.163827053	36	0.004550751	31.73694081	2023
0.015583274	10	0.001558327	10.86777559	2023
0.000764561	2	0.000382281	2.666025467	2023
2.606464729	327	0.00797084	55.5886392	2024
82.77652953	1599	0.051767686	361.0278405	2024
52.651459	1142	0.046104605	321.5335158	2024
2.362303827	221	0.010689158	74.54618502	2024
8.715345949	368	0.023683005	165.1652789	2024
0.237120255	91	0.002605717	18.17227098	2024
0.104025738	55	0.001891377	13.19046352	2024
0.026887773	25	0.001075511	7.500613206	2024
0.070711986	37	0.001911135	13.32825376	2024
0.071916272	33	0.002179281	15.19830555	2024
0.078884586	31	0.002544664	17.74648725	2024
0.172533636	41	0.004208137	29.34755071	2024
0.163458041	36	0.004540501	31.66545485	2024
0.015548447	10	0.001554845	10.8434871	2024
0.000762863	2	0.000381432	2.660104292	2024
2.432372009	328	0.007415768	51.71756827	2025
77.00634103	1601	0.048098901	335.4417379	2025
49.04479346	1144	0.042871323	298.9846063	2025
2.193241671	221	0.00992417	69.21116478	2025
8.093712754	368	0.021993785	153.3846542	2025
0.235629962	91	0.00258934	18.05805885	2025
0.107175057	56	0.00191384	13.34712228	2025
0.02672376	25	0.00106895	7.454859953	2025
0.070285022	37	0.001899595	13.24777686	2025
0.071486881	33	0.002166269	15.10756086	2025
0.078533069	31	0.002533325	17.66740722	2025
0.171770453	41	0.004189523	29.21773503	2025
0.162738983	36	0.004520527	31.52615739	2025
0.015480362	10	0.001548036	10.79600434	2025
0.000759535	2	0.000379767	2.648498406	2025
2.329866788	328	0.007103252	49.53808225	2026
73.99308904	1603	0.046159132	321.9137885	2026
47.19149776	1146	0.041179317	287.1845596	2026
2.122656345	222	0.009561515	66.68200608	2026
7.765514157	368	0.021101941	147.1649341	2026
0.167275944	91	0.001838197	12.81958722	2026
0.076061413	56	0.00135824	9.472362401	2026
0.01895988	25	0.000758395	5.289048116	2026
0.0498554	37	0.001347443	9.397069229	2026
0.050696654	33	0.001536262	10.7138928	2026
0.055436363	31	0.00178827	12.47139332	2026
0.121239379	41	0.002957058	20.62252263	2026
0.121325013	37	0.003279054	22.86812544	2026
0.010924776	10	0.001092478	7.618938975	2026
0.00053599	2	0.000267995	1.868995433	2026
2.235013926	329	0.006793355	47.37686055	2027

	2000	26.79%	10.15%	No Reduct	No Reduct	19.24%	19.24%	2027	002000	Construction	C.1 Well Drilling	310.3226543	29.23918253
	3000	19.37%	7.37%	No Reduct	No Reduct	14.01%	14.01%	2027	003000	Construction	C.1 Well Drilling	383.2058981	36.19257436
	4000	3.77%	1.44%	No Reduct	No Reduct	2.74%	2.74%	2027	004000	Construction	C.1 Well Drilling	456.089142	43.14596618
	5000	6.33%	2.42%	No Reduct	No Reduct	4.63%	4.63%	2027	005000	Construction	C.1 Well Drilling	601.8556298	57.05274983
	6000	0.13%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2027	006000	Construction	C.1 Well Drilling	2732.765427	134.013557
	7000	0.08%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2027	007000	Construction	C.1 Well Drilling	3275.560577	160.5311453
2027	8000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2027	008000	Construction	C.1 Well Drilling	4089.753302	200.3075278
	9000	0.05%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2027	009000	Construction	C.1 Well Drilling	4903.946026	240.0839103
	10000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2027	010000	Construction	C.1 Well Drilling	6260.9339	306.3778812
	11000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2027	011000	Construction	C.1 Well Drilling	9482.797117	456.3735298
	12000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2027	012000	Construction	C.1 Well Drilling	11848.79898	570.1105084
	13000	0.04%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2027	013000	Construction	C.1 Well Drilling	14552.8011	700.0956269
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2027	014000	Construction	C.1 Well Drilling	17932.80376	862.5770249
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2027	015000	Construction	C.1 Well Drilling	21988.80695	1057.554703
	1000	5.39%	2.03%	No Reduct	No Reduct	3.83%	3.83%	2028	001000	Construction	C.1 Well Drilling	220.3047946	21.91287962
	2000	26.81%	10.16%	No Reduct	No Reduct	19.26%	19.26%	2028	002000	Construction	C.1 Well Drilling	287.738463	28.7537402
	3000	19.38%	7.37%	No Reduct	No Reduct	14.02%	14.02%	2028	003000	Construction	C.1 Well Drilling	355.1721314	35.59460077
	4000	3.77%	1.44%	No Reduct	No Reduct	2.74%	2.74%	2028	004000	Construction	C.1 Well Drilling	422.6057999	42.43546135
	5000	6.32%	2.42%	No Reduct	No Reduct	4.62%	4.62%	2028	005000	Construction	C.1 Well Drilling	557.4731368	56.11718251
	6000	0.13%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2028	006000	Construction	C.1 Well Drilling	2729.804588	136.2304136
	7000	0.08%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2028	007000	Construction	C.1 Well Drilling	3272.164748	163.1984367
2028	8000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2028	008000	Construction	C.1 Well Drilling	4085.704988	203.6504715
	9000	0.05%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2028	009000	Construction	C.1 Well Drilling	4899.245228	244.1025062
	10000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2028	010000	Construction	C.1 Well Drilling	6255.145627	311.522564
	11000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2028	011000	Construction	C.1 Well Drilling	9482.668135	464.5924702
	12000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2028	012000	Construction	C.1 Well Drilling	11848.83422	580.3930133
	13000	0.04%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2028	013000	Construction	C.1 Well Drilling	14553.02403	712.7364911
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2028	014000	Construction	C.1 Well Drilling	17933.2613	878.1658384
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2028	015000	Construction	C.1 Well Drilling	21989.54602	1076.681055
	1000	5.40%	2.03%	No Reduct	No Reduct	3.84%	3.84%	2029	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	26.81%	10.16%	No Reduct	No Reduct	19.26%	19.26%	2029	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	19.38%	7.37%	No Reduct	No Reduct	14.02%	14.02%	2029	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	3.76%	1.43%	No Reduct	No Reduct	2.73%	2.73%	2029	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	6.33%	2.42%	No Reduct	No Reduct	4.62%	4.62%	2029	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.13%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2029	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.08%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2029	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2029	8000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2029	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.05%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2029	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2029	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2029	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2029	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.04%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2029	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2029	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2029	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	5.39%	2.03%	No Reduct	No Reduct	3.83%	3.83%	2030	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	26.82%	10.16%	No Reduct	No Reduct	19.27%	19.27%	2030	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	19.37%	7.37%	No Reduct	No Reduct	14.01%	14.01%	2030	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	3.77%	1.44%	No Reduct	No Reduct	2.74%	2.74%	2030	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	6.33%	2.42%	No Reduct	No Reduct	4.63%	4.63%	2030	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.13%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2030	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451

855.7315035	1.008083983	10.56198754	9.71702854	2027	002000	Construction	C.1 Well Drilling	83.12876866	2.966984016	No Reduction	No Reduction
1060.969963	1.249762162	13.02228197	11.98049941	2027	003000	Construction	C.1 Well Drilling	74.2451819	2.666876881	No Reduction	No Reduction
1266.208422	1.491440341	15.48257639	14.24397028	2027	004000	Construction	C.1 Well Drilling	17.20933957	0.620845294	No Reduction	No Reduction
1676.68534	1.974796699	20.40316524	18.77091203	2027	005000	Construction	C.1 Well Drilling	38.08421643	1.381538735	No Reduction	No Reduction
3961.954751	4.661204512	59.61227168	54.84328995	2027	006000	Construction	C.1 Well Drilling	3.484592387	0.081954074	No Reduction	No Reduction
4747.390168	5.585171161	71.39056405	65.67931893	2027	007000	Construction	C.1 Well Drilling	2.57489032	0.060585942	No Reduction	No Reduction
5925.543293	6.971121135	89.05800261	81.9333624	2027	008000	Construction	C.1 Well Drilling	1.437806419	0.033846166	No Reduction	No Reduction
7103.696418	8.357071108	106.7254412	98.18740587	2027	009000	Construction	C.1 Well Drilling	2.62368788	0.061780672	No Reduction	No Reduction
9067.284959	10.66698773	136.1711721	125.2774783	2027	010000	Construction	C.1 Well Drilling	2.912738064	0.068609682	No Reduction	No Reduction
13484.46933	15.8601023	203.5993388	187.3113917	2027	011000	Construction	C.1 Well Drilling	3.395643882	0.080080334	No Reduction	No Reduction
16846.89225	19.81478506	254.3189711	233.9734534	2027	012000	Construction	C.1 Well Drilling	5.615086709	0.132444925	No Reduction	No Reduction
20689.6613	24.3344225	312.2842651	287.3015239	2027	013000	Construction	C.1 Well Drilling	6.226598108	0.146887794	No Reduction	No Reduction
25493.12261	29.9839693	384.7408826	353.961612	2027	014000	Construction	C.1 Well Drilling	2.074528372	0.048944126	No Reduction	No Reduction
31257.27618	36.76342545	471.6888236	433.9537177	2027	015000	Construction	C.1 Well Drilling	0.508905079	0.012007561	No Reduction	No Reduction
650.4930445	0.766405804	7.431979033	6.83742071	2028	001000	Construction	C.1 Well Drilling	11.87987502	0.44473485	No Reduction	No Reduction
855.7315035	1.008083983	9.688992596	8.913873189	2028	002000	Construction	C.1 Well Drilling	77.15646373	2.920658995	No Reduction	No Reduction
1060.969963	1.249762162	11.94600616	10.99032567	2028	003000	Construction	C.1 Well Drilling	68.83126844	2.62348399	No Reduction	No Reduction
1266.208422	1.491440341	14.20301972	13.06677815	2028	004000	Construction	C.1 Well Drilling	15.92226224	0.609715129	No Reduction	No Reduction
1676.68534	1.974796699	18.71704685	17.2196831	2028	005000	Construction	C.1 Well Drilling	35.22341749	1.356866722	No Reduction	No Reduction
3961.954751	4.661204512	58.97986828	54.26147881	2028	006000	Construction	C.1 Well Drilling	3.475650002	0.083186095	No Reduction	No Reduction
4747.390168	5.585171161	70.64365426	64.99216192	2028	007000	Construction	C.1 Well Drilling	2.568402648	0.061501173	No Reduction	No Reduction
5925.543293	6.971121135	88.13933324	81.08818658	2028	008000	Construction	C.1 Well Drilling	1.434250995	0.034359946	No Reduction	No Reduction
7103.696418	8.357071108	105.6350122	97.18421124	2028	009000	Construction	C.1 Well Drilling	2.617281975	0.062721532	No Reduction	No Reduction
9067.284959	10.66698773	134.7944772	124.010919	2028	010000	Construction	C.1 Well Drilling	2.905725508	0.069658217	No Reduction	No Reduction
13484.46933	15.8601023	202.0884447	185.9213691	2028	011000	Construction	C.1 Well Drilling	3.390557224	0.081401507	No Reduction	No Reduction
16846.89225	19.81478506	252.4453213	232.2496956	2028	012000	Construction	C.1 Well Drilling	5.606768275	0.134633551	No Reduction	No Reduction
20689.6613	24.3344225	309.9960374	285.1963544	2028	013000	Construction	C.1 Well Drilling	6.217450504	0.149318008	No Reduction	No Reduction
25493.12261	29.9839693	381.9344325	351.3796779	2028	014000	Construction	C.1 Well Drilling	2.071501765	0.049754696	No Reduction	No Reduction
31257.27618	36.76342545	468.2605067	430.7996662	2028	015000	Construction	C.1 Well Drilling	0.508166733	0.012206577	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2029	001000	Construction	C.1 Well Drilling	11.47544917	0.43332598	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2029	002000	Construction	C.1 Well Drilling	74.38786648	2.840340707	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2029	003000	Construction	C.1 Well Drilling	66.3895097	2.552434644	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2029	004000	Construction	C.1 Well Drilling	15.33002197	0.592146887	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2029	005000	Construction	C.1 Well Drilling	34.00306267	1.321267653	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2029	006000	Construction	C.1 Well Drilling	3.469530698	0.084210557	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2029	007000	Construction	C.1 Well Drilling	2.563965206	0.062262201	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2029	008000	Construction	C.1 Well Drilling	1.431820346	0.034787154	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2029	009000	Construction	C.1 Well Drilling	2.612904092	0.063503847	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2029	010000	Construction	C.1 Well Drilling	2.900934846	0.07053005	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2029	011000	Construction	C.1 Well Drilling	3.387937749	0.082559838	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2029	012000	Construction	C.1 Well Drilling	5.602502414	0.136552307	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2029	013000	Construction	C.1 Well Drilling	6.212774357	0.151448473	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2029	014000	Construction	C.1 Well Drilling	2.069958743	0.050465264	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2029	015000	Construction	C.1 Well Drilling	0.507791123	0.012381035	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2030	001000	Construction	C.1 Well Drilling	11.45846528	0.432684649	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2030	002000	Construction	C.1 Well Drilling	74.41617675	2.841421674	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2030	003000	Construction	C.1 Well Drilling	66.3487964	2.550869366	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2030	004000	Construction	C.1 Well Drilling	15.37628519	0.593933878	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2030	005000	Construction	C.1 Well Drilling	34.04450162	1.32287786	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2030	006000	Construction	C.1 Well Drilling	3.464395724	0.084085924	No Reduction	No Reduction

2.032462205	1.869865189	1604		2027	66.6692725	2.37952118	No Reduction	No Reduction	1.63003469	1.49963188
1.824951281	1.678955179	1148		2027	42.6167344	1.53078733	No Reduction	No Reduction	1.04752204	0.96372027
0.424546871	0.390583127	222		2027	1.91023669	0.06891383	No Reduction	No Reduction	0.0471247	0.04335473
0.943893333	0.868381896	369		2027	7.02653793	0.2548939	No Reduction	No Reduction	0.17414832	0.16021646
0.079355844	0.073007376	91		2027	0.15854895	0.00372891	No Reduction	No Reduction	0.00361069	0.00332184
0.058697219	0.054001444	56		2027	0.07209693	0.00169641	No Reduction	No Reduction	0.00164352	0.00151204
0.032809098	0.030184372	25		2027	0.01797258	0.00042308	No Reduction	No Reduction	0.00041011	0.0003773
0.059909812	0.055117025	38		2027	0.04985007	0.00117383	No Reduction	No Reduction	0.00113829	0.00104722
0.066558897	0.06123419	33		2027	0.04806018	0.00113206	No Reduction	No Reduction	0.00109822	0.00101036
0.078954078	0.072637754	31		2027	0.05263248	0.00124125	No Reduction	No Reduction	0.00122379	0.00112589
0.130611078	0.120162193	41		2027	0.11510928	0.00271512	No Reduction	No Reduction	0.00267753	0.00246332
0.144877865	0.133287634	37		2027	0.11519207	0.00271742	No Reduction	No Reduction	0.00268024	0.00246582
0.048280985	0.044418506	10		2027	0.01037264	0.00024472	No Reduction	No Reduction	0.0002414	0.00022209
0.011846156	0.010898464	2		2027	0.00050891	1.2008E-05	No Reduction	No Reduction	1.1846E-05	1.0898E-05
0.28472728	0.26194911	329		2028	1.95423944	0.07315888	No Reduction	No Reduction	0.04683764	0.04309063
1.866345226	1.717037572	1608		2028	62.0337968	2.34820983	No Reduction	No Reduction	1.50054156	1.38049821
1.674548441	1.540584566	1150		2028	39.5779794	1.50850329	No Reduction	No Reduction	0.96286535	0.88583613
0.388882099	0.357771535	222		2028	1.76737111	0.06767838	No Reduction	No Reduction	0.04316591	0.03971264
0.864604612	0.79543627	369		2028	6.49872053	0.25034191	No Reduction	No Reduction	0.15951955	0.14675799
0.078397441	0.072125646	91		2028	0.15814208	0.00378497	No Reduction	No Reduction	0.00356708	0.00328172
0.057996892	0.053357142	56		2028	0.07191527	0.00172203	No Reduction	No Reduction	0.00162391	0.001494
0.032422459	0.029828664	25		2028	0.01792814	0.0004295	No Reduction	No Reduction	0.00040528	0.00037286
0.059209683	0.054472906	38		2028	0.04972836	0.00119171	No Reduction	No Reduction	0.00112498	0.00103499
0.065788183	0.060525132	33		2028	0.04794447	0.00114936	No Reduction	No Reduction	0.00108551	0.00099866
0.078251836	0.071991691	31		2028	0.05255364	0.00126172	No Reduction	No Reduction	0.0012129	0.00111587
0.129456372	0.119099863	41		2028	0.11493875	0.00275999	No Reduction	No Reduction	0.00265386	0.00244155
0.143602806	0.13211458	37		2028	0.11502283	0.00276238	No Reduction	No Reduction	0.00265665	0.00244412
0.047857659	0.044029046	10		2028	0.01035751	0.00024877	No Reduction	No Reduction	0.00023929	0.00022015
0.011742599	0.010803191	2		2028	0.00050817	1.2207E-05	No Reduction	No Reduction	1.1743E-05	1.0803E-05
0.274254998	0.25231461	330		2029	1.89344911	0.07149879	No Reduction	No Reduction	0.04525207	0.04163191
1.795959624	1.65228282	1610		2029	59.8822325	2.28647427	No Reduction	No Reduction	1.4457475	1.33008767
1.613018199	1.483976743	1152		2029	38.2403576	1.47020235	No Reduction	No Reduction	0.92909848	0.8547706
0.374072989	0.344147154	222		2029	1.70163244	0.0657283	No Reduction	No Reduction	0.0415221	0.03820033
0.834304517	0.767560182	370		2029	6.29056659	0.24443452	No Reduction	No Reduction	0.15434634	0.14199863
0.077797504	0.071573703	91		2029	0.15786365	0.00383158	No Reduction	No Reduction	0.00353979	0.0032566
0.05756032	0.052955496	56		2029	0.07179103	0.00174334	No Reduction	No Reduction	0.00161169	0.00148275
0.032182468	0.029607872	25		2029	0.01789775	0.00043484	No Reduction	No Reduction	0.00040228	0.0003701
0.05877638	0.054074267	38		2029	0.04964518	0.00120657	No Reduction	No Reduction	0.00111675	0.00102741
0.065312754	0.060087738	33		2029	0.04786542	0.00116375	No Reduction	No Reduction	0.00107766	0.00099145
0.077866795	0.071637453	31		2029	0.05251304	0.00127968	No Reduction	No Reduction	0.00120694	0.00111038
0.128825271	0.11851925	41		2029	0.1148513	0.00279932	No Reduction	No Reduction	0.00264092	0.00242964
0.14290761	0.131475	37		2029	0.11493633	0.0028018	No Reduction	No Reduction	0.00264379	0.00243229
0.047627316	0.04381713	10		2029	0.01034979	0.00025233	No Reduction	No Reduction	0.00023814	0.00021909
0.011686343	0.010751435	2		2029	0.00050779	1.2381E-05	No Reduction	No Reduction	1.1686E-05	1.0751E-05
0.273849096	0.251941179	330		2030	1.89064677	0.07139297	No Reduction	No Reduction	0.0451851	0.04157029
1.796643124	1.65291164	1613		2030	60.0166466	2.29160658	No Reduction	No Reduction	1.44899268	1.33307324
1.612029017	1.483066696	1153		2030	38.2500811	1.47057619	No Reduction	No Reduction	0.92933473	0.85498795
0.375201873	0.345185728	223		2030	1.7144558	0.06622363	No Reduction	No Reduction	0.04183501	0.03848821
0.83532127	0.768495595	371		2030	6.31525505	0.24539384	No Reduction	No Reduction	0.1549521	0.14255593
0.077682362	0.071467773	91		2030	0.15763001	0.00382591	No Reduction	No Reduction	0.00353455	0.00325178

70.67882833	1604	0.044064107	307.3030853	2027
45.19504378	1148	0.039368505	274.5559541	2027
2.026275223	222	0.009127366	63.65424958	2027
7.455580148	369	0.020204824	140.9084443	2027
0.165888555	91	0.001822951	12.71326134	2027
0.075436857	56	0.001347087	9.394582928	2027
0.018805771	25	0.000752231	5.246057891	2027
0.052162189	38	0.001372689	9.573134358	2027
0.05029046	33	0.001523953	10.62805047	2027
0.055097514	31	0.001777339	12.39516321	2027
0.120501926	41	0.002939071	20.49708364	2027
0.12058973	37	0.003259182	22.72953446	2027
0.010858767	10	0.001085877	7.572904396	2027
0.000532759	2	0.000266379	1.857729924	2027
2.074235962	329	0.006304669	43.96875865	2028
65.88254823	1608	0.040971734	285.7368727	2028
42.049348	1150	0.03656465	255.0018721	2028
1.8782154	222	0.00846043	59.00303695	2028
6.908581987	369	0.018722444	130.5703273	2028
0.165494126	91	0.001818617	12.68303335	2028
0.07526122	56	0.00134395	9.372709786	2028
0.018762918	25	0.000750517	5.234103467	2028
0.052045051	38	0.001369607	9.551636393	2028
0.050179336	33	0.001520586	10.60456644	2028
0.055028264	31	0.001775105	12.37958425	2028
0.120352593	41	0.002935429	20.47168254	2028
0.120441869	37	0.003255186	22.70166478	2028
0.010845571	10	0.001084557	7.563700937	2028
0.000532116	2	0.000266058	1.855488176	2028
2.010199974	330	0.006091515	42.48222612	2029
63.61445428	1610	0.039512083	275.5572697	2029
40.63965842	1152	0.035277481	246.0251544	2029
1.808882845	222	0.008148121	56.82499531	2029
6.689347445	370	0.018079317	126.0851597	2029
0.165235014	91	0.001815769	12.66317565	2029
0.075146056	56	0.001341894	9.358367804	2029
0.018734875	25	0.000749395	5.226280618	2029
0.051968502	38	0.001367592	9.537587718	2029
0.050106831	33	0.001518389	10.58924367	2029
0.054999648	31	0.001774182	12.3731466	2029
0.12029154	41	0.00293394	20.46129753	2029
0.120381913	37	0.003253565	22.69036385	2029
0.010840257	10	0.001084026	7.559994962	2029
0.000531859	2	0.000265929	1.85459059	2029
2.007224838	330	0.0060825	42.41935158	2030
63.75724581	1613	0.039527121	275.6621403	2030
40.64999205	1153	0.035255847	245.8742797	2030
1.822514435	223	0.00817271	56.99648281	2030
6.715600989	371	0.01810135	126.2388175	2030
0.164990462	91	0.001813082	12.6444339	2030

	7000	0.08%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2030	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2030	8000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2030	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.05%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2030	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2030	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2030	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2030	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.04%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2030	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2030	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2030	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	5.38%	2.03%	No Reduct	No Reduct	3.83%	3.83%	2031	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	26.83%	10.16%	No Reduct	No Reduct	19.27%	19.27%	2031	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	19.38%	7.37%	No Reduct	No Reduct	14.02%	14.02%	2031	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	3.77%	1.44%	No Reduct	No Reduct	2.74%	2.74%	2031	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	6.32%	2.42%	No Reduct	No Reduct	4.62%	4.62%	2031	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.13%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2031	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.08%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2031	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2031	8000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2031	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.05%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2031	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2031	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2031	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2031	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.04%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2031	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2031	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2031	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	5.41%	2.04%	No Reduct	No Reduct	3.84%	3.84%	2032	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	26.81%	10.15%	No Reduct	No Reduct	19.26%	19.26%	2032	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	19.38%	7.37%	No Reduct	No Reduct	14.02%	14.02%	2032	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	3.78%	1.44%	No Reduct	No Reduct	2.75%	2.75%	2032	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	6.32%	2.42%	No Reduct	No Reduct	4.62%	4.62%	2032	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.13%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2032	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.08%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2032	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2032	8000	0.03%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2032	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.05%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2032	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2032	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2032	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2032	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.04%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2032	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2032	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2032	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	5.40%	2.03%	No Reduct	No Reduct	3.84%	3.84%	2033	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	26.77%	10.14%	No Reduct	No Reduct	19.23%	19.23%	2033	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	19.39%	7.38%	No Reduct	No Reduct	14.03%	14.03%	2033	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	3.77%	1.44%	No Reduct	No Reduct	2.74%	2.74%	2033	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	6.32%	2.42%	No Reduct	No Reduct	4.62%	4.62%	2033	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.13%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2033	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.08%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2033	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2033	8000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2033	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.05%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2033	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2033	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2033	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126

4747.390168	5.585171161	70.21595899	64.59868227	2030	007000	Construction	C.1 Well Drilling	2.560170487	0.062170052	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2030	008000	Construction	C.1 Well Drilling	1.429701224	0.034735668	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2030	009000	Construction	C.1 Well Drilling	2.609036942	0.06340986	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2030	010000	Construction	C.1 Well Drilling	2.896641406	0.070425665	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2030	011000	Construction	C.1 Well Drilling	3.382923535	0.082437648	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2030	012000	Construction	C.1 Well Drilling	5.5942106	0.136350207	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2030	013000	Construction	C.1 Well Drilling	6.203579329	0.151224327	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2030	014000	Construction	C.1 Well Drilling	2.066895163	0.050390574	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2030	015000	Construction	C.1 Well Drilling	0.507039582	0.01236271	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2031	001000	Construction	C.1 Well Drilling	11.44153158	0.432045214	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2031	002000	Construction	C.1 Well Drilling	74.44440335	2.842499446	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2031	003000	Construction	C.1 Well Drilling	66.36566289	2.551517821	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2031	004000	Construction	C.1 Well Drilling	15.35356161	0.593056143	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2031	005000	Construction	C.1 Well Drilling	33.99418955	1.320922868	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2031	006000	Construction	C.1 Well Drilling	3.459275928	0.083961659	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2031	007000	Construction	C.1 Well Drilling	2.556386984	0.062078175	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2031	008000	Construction	C.1 Well Drilling	1.427588365	0.034684335	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2031	009000	Construction	C.1 Well Drilling	2.605181222	0.063316151	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2031	010000	Construction	C.1 Well Drilling	2.892360655	0.070321587	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2031	011000	Construction	C.1 Well Drilling	3.486889435	0.084971168	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2031	012000	Construction	C.1 Well Drilling	5.585943293	0.136148705	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2031	013000	Construction	C.1 Well Drilling	6.194411477	0.151000842	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2031	014000	Construction	C.1 Well Drilling	2.063840638	0.050316106	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2031	015000	Construction	C.1 Well Drilling	0.506290262	0.01234444	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2032	001000	Construction	C.1 Well Drilling	11.49388816	0.434022257	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2032	002000	Construction	C.1 Well Drilling	74.38054844	2.840061284	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2032	003000	Construction	C.1 Well Drilling	66.3824796	2.552164362	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2032	004000	Construction	C.1 Well Drilling	15.39965356	0.594836519	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2032	005000	Construction	C.1 Well Drilling	33.94402596	1.318973645	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2032	006000	Construction	C.1 Well Drilling	3.454171241	0.083837761	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2032	007000	Construction	C.1 Well Drilling	2.552614647	0.061986569	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2032	008000	Construction	C.1 Well Drilling	1.425481742	0.034633153	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2032	009000	Construction	C.1 Well Drilling	2.601336882	0.063222718	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2032	010000	Construction	C.1 Well Drilling	2.888092538	0.070217817	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2032	011000	Construction	C.1 Well Drilling	3.481744	0.08484578	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2032	012000	Construction	C.1 Well Drilling	5.577700386	0.135947797	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2032	013000	Construction	C.1 Well Drilling	6.185270683	0.150778018	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2032	014000	Construction	C.1 Well Drilling	2.060795128	0.050241856	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2032	015000	Construction	C.1 Well Drilling	0.505543154	0.012326224	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2033	001000	Construction	C.1 Well Drilling	11.47977137	0.433489191	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2033	002000	Construction	C.1 Well Drilling	74.28919429	2.836573122	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2033	003000	Construction	C.1 Well Drilling	66.41555706	2.55343607	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2033	004000	Construction	C.1 Well Drilling	15.38073971	0.594105941	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2033	005000	Construction	C.1 Well Drilling	33.99371689	1.320904501	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2033	006000	Construction	C.1 Well Drilling	3.44992883	0.083734791	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2033	007000	Construction	C.1 Well Drilling	2.549479527	0.061910437	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2033	008000	Construction	C.1 Well Drilling	1.480680205	0.035974241	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2033	009000	Construction	C.1 Well Drilling	2.598141922	0.063145068	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2033	010000	Construction	C.1 Well Drilling	2.884545384	0.070131576	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2033	011000	Construction	C.1 Well Drilling	3.477467724	0.084741572	No Reduction	No Reduction

0.057475129	0.052877121	56	2030	0.07168477	0.00174076	No Reduction	No Reduction	0.0016093	0.00148056
0.032134837	0.029564051	25	2030	0.01787127	0.0004342	No Reduction	No Reduction	0.00040169	0.00036955
0.05868939	0.053994236	38	2030	0.0495717	0.00120479	No Reduction	No Reduction	0.0011151	0.00102589
0.06521609	0.059998807	33	2030	0.04779458	0.00116202	No Reduction	No Reduction	0.00107607	0.00098998
0.077751551	0.071531429	31	2030	0.05243531	0.00127778	No Reduction	No Reduction	0.00120515	0.00110874
0.128634607	0.118343839	41	2030	0.11468132	0.00279518	No Reduction	No Reduction	0.00263701	0.00242605
0.142696104	0.131280415	37	2030	0.11476622	0.00279765	No Reduction	No Reduction	0.00263988	0.00242869
0.047556826	0.04375228	10	2030	0.01033448	0.00025195	No Reduction	No Reduction	0.00023778	0.00021876
0.011669047	0.010735523	2	2030	0.00050704	1.2363E-05	No Reduction	No Reduction	1.1669E-05	1.0736E-05
0.273444392	0.251568852	330	2031	1.88785271	0.07128746	No Reduction	No Reduction	0.04511832	0.04150886
1.797324604	1.653538601	1616	2031	60.1510779	2.29673955	No Reduction	No Reduction	1.45223828	1.33605919
1.61243881	1.483443705	1155	2031	38.3261703	1.47350154	No Reduction	No Reduction	0.93118341	0.85668874
0.374647388	0.344675601	223	2031	1.71192212	0.06612576	No Reduction	No Reduction	0.04177318	0.03843133
0.834086805	0.767359887	371	2031	6.30592216	0.24503119	No Reduction	No Reduction	0.1547231	0.14234526
0.07756756	0.071362155	91	2031	0.15739705	0.00382026	No Reduction	No Reduction	0.00352932	0.00324698
0.057390191	0.052798978	56	2031	0.07157884	0.00173819	No Reduction	No Reduction	0.00160693	0.00147837
0.032087347	0.029520361	25	2031	0.01784485	0.00043355	No Reduction	No Reduction	0.00040109	0.000369
0.058602657	0.053914442	38	2031	0.04949844	0.00120301	No Reduction	No Reduction	0.00111345	0.00102437
0.065119712	0.059910139	33	2031	0.04772395	0.00116031	No Reduction	No Reduction	0.00107448	0.00098852
0.080141055	0.073729772	32	2031	0.05579023	0.00135954	No Reduction	No Reduction	0.00128226	0.00117968
0.128444506	0.118168947	41	2031	0.11451184	0.00279105	No Reduction	No Reduction	0.00263311	0.00242246
0.142485223	0.131086404	37	2031	0.11459661	0.00279352	No Reduction	No Reduction	0.00263598	0.0024251
0.047486545	0.043687621	10	2031	0.0103192	0.00025158	No Reduction	No Reduction	0.00023743	0.00021844
0.011651802	0.010719658	2	2031	0.00050629	1.2344E-05	No Reduction	No Reduction	1.1652E-05	1.072E-05
0.274695677	0.252720034	332	2032	1.90798543	0.07204769	No Reduction	No Reduction	0.04559948	0.04195153
1.795782943	1.652120274	1617	2032	60.1366734	2.29618955	No Reduction	No Reduction	1.45189051	1.33573924
1.612847393	1.483819602	1157	2032	38.4022645	1.47642708	No Reduction	No Reduction	0.93303222	0.85838964
0.375772093	0.34571033	224	2032	1.7247612	0.06662169	No Reduction	No Reduction	0.04208647	0.03871956
0.832855984	0.766227531	371	2032	6.29661682	0.24466961	No Reduction	No Reduction	0.15449478	0.14213521
0.077453098	0.07125685	91	2032	0.15716479	0.00381462	No Reduction	No Reduction	0.00352412	0.00324219
0.057305503	0.052721065	56	2032	0.07147321	0.00173562	No Reduction	No Reduction	0.00160455	0.00147619
0.032039997	0.029476799	25	2032	0.01781852	0.00043291	No Reduction	No Reduction	0.0004005	0.00036846
0.05851618	0.053834883	38	2032	0.0494254	0.00120123	No Reduction	No Reduction	0.00111181	0.00102286
0.065023618	0.059821732	33	2032	0.04765353	0.00115859	No Reduction	No Reduction	0.00107289	0.00098706
0.080022795	0.073620973	32	2032	0.0557079	0.00135753	No Reduction	No Reduction	0.00128036	0.00117794
0.128254967	0.117994571	41	2032	0.11434286	0.00278693	No Reduction	No Reduction	0.00262923	0.00241889
0.142274965	0.130892966	37	2032	0.11442751	0.00278939	No Reduction	No Reduction	0.00263209	0.00242152
0.047416472	0.043623154	10	2032	0.01030398	0.00025121	No Reduction	No Reduction	0.00023708	0.00021812
0.011634608	0.010703839	2	2032	0.00050554	1.2326E-05	No Reduction	No Reduction	1.1635E-05	1.0704E-05
0.274358296	0.252409644	332	2033	1.90564205	0.07195921	No Reduction	No Reduction	0.04554348	0.0419
1.793577364	1.65009114	1617	2033	60.0628136	2.29336937	No Reduction	No Reduction	1.4501073	1.33409869
1.613651052	1.484558969	1159	2033	38.4878153	1.4797162	No Reduction	No Reduction	0.93511078	0.86030192
0.37531057	0.345285728	224	2033	1.72264285	0.06653987	No Reduction	No Reduction	0.04203478	0.038672
0.834075208	0.767349217	372	2033	6.32283134	0.24568824	No Reduction	No Reduction	0.15513799	0.14272695
0.07735797	0.071169332	91	2033	0.15697176	0.00380993	No Reduction	No Reduction	0.00351979	0.0032382
0.05723512	0.052656313	56	2033	0.07138543	0.00173349	No Reduction	No Reduction	0.00160258	0.00147438
0.033280672	0.030618219	26	2033	0.01924884	0.00046767	No Reduction	No Reduction	0.00043265	0.00039804
0.05844431	0.053768763	38	2033	0.0493647	0.00119976	No Reduction	No Reduction	0.00111044	0.00102161
0.064943756	0.059748259	33	2033	0.047595	0.00115717	No Reduction	No Reduction	0.00107157	0.00098585
0.079924511	0.073530552	32	2033	0.05563948	0.00135587	No Reduction	No Reduction	0.00127879	0.00117649

0.075034839	56	0.001339908	9.344517235	2030
0.018707147	25	0.000748286	5.21854562	2030
0.051891588	38	0.001365568	9.5234719	2030
0.050032672	33	0.001516142	10.57357138	2030
0.054918247	31	0.001771556	12.3548341	2030
0.120113506	41	0.002929598	20.43101441	2030
0.120203746	37	0.00324875	22.65678166	2030
0.010824213	10	0.001082421	7.54880602	2030
0.000531071	2	0.000265536	1.851845759	2030
2.004258496	330	0.006073511	42.35666289	2031
63.90005574	1616	0.039542114	275.7667009	2031
40.73085528	1155	0.03526481	245.9367833	2031
1.819821063	223	0.008160633	56.91225155	2031
6.705676456	371	0.0180746	126.0522577	2031
0.164746634	91	0.001810403	12.62574755	2031
0.07492395	56	0.001337928	9.330707603	2031
0.018679501	25	0.00074718	5.210833483	2031
0.051814901	38	0.00136355	9.509397803	2031
0.049958732	33	0.001513901	10.55794541	2031
0.058432027	32	0.001826001	12.73452978	2031
0.119935998	41	0.002925268	20.40082079	2031
0.120026105	37	0.003243949	22.62329873	2031
0.010808216	10	0.001080822	7.537650149	2031
0.000530287	2	0.000265143	1.849109041	2031
2.025632611	332	0.006101303	42.55048744	2032
63.88475347	1617	0.039508196	275.5301612	2032
40.81172375	1157	0.035273746	245.9991024	2032
1.833469363	224	0.008185131	57.08310418	2032
6.695781213	371	0.018047928	125.8662485	2032
0.164503526	91	0.001807731	12.60711634	2032
0.074813388	56	0.001335953	9.316938728	2032
0.018651936	25	0.000746077	5.203144108	2032
0.05173844	38	0.001361538	9.495365244	2032
0.049885011	33	0.001511667	10.54236556	2032
0.058345801	32	0.001823306	12.71573805	2032
0.119759015	41	0.002920952	20.37071628	2032
0.119848988	37	0.003239162	22.58991462	2032
0.010792267	10	0.001079227	7.526527202	2032
0.000529504	2	0.000264752	1.8463804	2032
2.02314473	332	0.006093809	42.49822696	2033
63.80629025	1617	0.039459672	275.1917552	2033
40.9026423	1159	0.035291322	246.1216803	2033
1.831217497	224	0.008175078	57.01299474	2033
6.723657567	372	0.018074348	126.050505	2033
0.164301482	91	0.001805511	12.59163229	2033
0.074721502	56	0.001334313	9.305495669	2033
0.020149157	26	0.000774968	5.404623754	2033
0.051674895	38	0.001359866	9.483703041	2033
0.049823742	33	0.00150981	10.52941743	2033
0.058274141	32	0.001821067	12.70012059	2033

	12000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2033	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.04%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2033	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2033	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2033	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	5.41%	2.04%	No Reduct	No Reduct	3.84%	3.84%	2034	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	26.78%	10.15%	No Reduct	No Reduct	19.24%	19.24%	2034	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	19.40%	7.38%	No Reduct	No Reduct	14.03%	14.03%	2034	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	3.77%	1.44%	No Reduct	No Reduct	2.74%	2.74%	2034	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	6.32%	2.42%	No Reduct	No Reduct	4.62%	4.62%	2034	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.13%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2034	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.08%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2034	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2034	8000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2034	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.05%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2034	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2034	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2034	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2034	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.04%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2034	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2034	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2034	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	5.40%	2.03%	No Reduct	No Reduct	3.84%	3.84%	2035	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	26.79%	10.15%	No Reduct	No Reduct	19.25%	19.25%	2035	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	19.40%	7.38%	No Reduct	No Reduct	14.03%	14.03%	2035	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	3.76%	1.44%	No Reduct	No Reduct	2.73%	2.73%	2035	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	6.32%	2.42%	No Reduct	No Reduct	4.62%	4.62%	2035	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.13%	0.06%	No Reduct	No Reduct	0.13%	0.13%	2035	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.08%	0.04%	No Reduct	No Reduct	0.08%	0.08%	2035	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2035	8000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2035	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.05%	0.03%	No Reduct	No Reduct	0.06%	0.06%	2035	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2035	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.04%	0.02%	No Reduct	No Reduct	0.04%	0.04%	2035	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.05%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2035	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.04%	0.02%	No Reduct	No Reduct	0.05%	0.05%	2035	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.01%	0.01%	No Reduct	No Reduct	0.01%	0.01%	2035	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.00%	0.00%	No Reduct	No Reduct	0.00%	0.00%	2035	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176

16846.89225	19.81478506	251.5875537	231.4605494	2033	012000	Construction	C.1 Well Drilling	5.706724245	0.139092553	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2033	013000	Construction	C.1 Well Drilling	6.177673937	0.150592832	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2033	014000	Construction	C.1 Well Drilling	2.058264061	0.050180149	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2033	015000	Construction	C.1 Well Drilling	0.504922247	0.012311085	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2034	001000	Construction	C.1 Well Drilling	11.49740367	0.434155007	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2034	002000	Construction	C.1 Well Drilling	74.31749007	2.837653535	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2034	003000	Construction	C.1 Well Drilling	66.43225497	2.554078044	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2034	004000	Construction	C.1 Well Drilling	15.35810433	0.593231613	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2034	005000	Construction	C.1 Well Drilling	33.94368934	1.318960565	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2034	006000	Construction	C.1 Well Drilling	3.444851672	0.083611561	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2034	007000	Construction	C.1 Well Drilling	2.545727533	0.061819326	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2034	008000	Construction	C.1 Well Drilling	1.478501131	0.035921299	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2034	009000	Construction	C.1 Well Drilling	2.594318313	0.063052139	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2034	010000	Construction	C.1 Well Drilling	2.880300284	0.070028365	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2034	011000	Construction	C.1 Well Drilling	3.472350038	0.084616861	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2034	012000	Construction	C.1 Well Drilling	5.698325828	0.138887855	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2034	013000	Construction	C.1 Well Drilling	6.168582438	0.150371209	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2034	014000	Construction	C.1 Well Drilling	2.055234974	0.050106301	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2034	015000	Construction	C.1 Well Drilling	0.504179167	0.012292967	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2035	001000	Construction	C.1 Well Drilling	11.48050815	0.433517013	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2035	002000	Construction	C.1 Well Drilling	74.34570268	2.838730774	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2035	003000	Construction	C.1 Well Drilling	66.4489038	2.554718131	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2035	004000	Construction	C.1 Well Drilling	15.33553548	0.592359855	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2035	005000	Construction	C.1 Well Drilling	33.98492122	1.320562725	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2035	006000	Construction	C.1 Well Drilling	3.439789436	0.083488693	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2035	007000	Construction	C.1 Well Drilling	2.541986567	0.061728482	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2035	008000	Construction	C.1 Well Drilling	1.476328463	0.035868512	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2035	009000	Construction	C.1 Well Drilling	2.590505942	0.062959484	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2035	010000	Construction	C.1 Well Drilling	2.876067661	0.069925458	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2035	011000	Construction	C.1 Well Drilling	3.467247393	0.084492516	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2035	012000	Construction	C.1 Well Drilling	5.689952094	0.138683758	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2035	013000	Construction	C.1 Well Drilling	6.159517658	0.150150238	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2035	014000	Construction	C.1 Well Drilling	2.052214791	0.050032669	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2035	015000	Construction	C.1 Well Drilling	0.503438272	0.012274903	No Reduction	No Reduction

0.131221772	0.120724031	42	2033	0.11984121	0.00292094	No Reduction	No Reduction	0.00275566	0.0025352
0.142100223	0.130732204	37	2033	0.11428697	0.00278597	No Reduction	No Reduction	0.00262885	0.00241855
0.047358235	0.043569576	10	2033	0.01029132	0.0002509	No Reduction	No Reduction	0.00023679	0.00021785
0.011620318	0.010690693	2	2033	0.00050492	1.2311E-05	No Reduction	No Reduction	1.162E-05	1.0691E-05
0.274779695	0.252797331	333	2034	1.91431771	0.07228681	No Reduction	No Reduction	0.04575082	0.04209076
1.794260514	1.650719638	1620	2034	60.197167	2.29849936	No Reduction	No Reduction	1.45335102	1.33708291
1.61405675	1.48493221	1161	2034	38.563924	1.4826423	No Reduction	No Reduction	0.93695994	0.86200315
0.374758236	0.344777582	224	2034	1.72010769	0.06644194	No Reduction	No Reduction	0.04197292	0.03861509
0.832847724	0.766219932	372	2034	6.31352622	0.24532667	No Reduction	No Reduction	0.15490968	0.14251691
0.077244124	0.071064594	91	2034	0.15674075	0.00380433	No Reduction	No Reduction	0.00351461	0.00323344
0.057150889	0.05257882	56	2034	0.07128037	0.00173094	No Reduction	No Reduction	0.00160022	0.00147221
0.033231693	0.03057316	26	2034	0.01922051	0.00046698	No Reduction	No Reduction	0.00043201	0.00039745
0.058358299	0.053689633	38	2034	0.04929205	0.00119799	No Reduction	No Reduction	0.00110881	0.0010201
0.06484818	0.05966033	33	2034	0.04752495	0.00115547	No Reduction	No Reduction	0.00106999	0.0009844
0.079806888	0.073422339	32	2034	0.0555576	0.00135387	No Reduction	No Reduction	0.00127691	0.00117476
0.131028657	0.120546365	42	2034	0.11966484	0.00291664	No Reduction	No Reduction	0.0027516	0.00253147
0.141891098	0.130539809	37	2034	0.11411878	0.00278187	No Reduction	No Reduction	0.00262499	0.00241499
0.047288539	0.043505456	10	2034	0.01027617	0.00025053	No Reduction	No Reduction	0.00023644	0.00021753
0.011603217	0.010674959	2	2034	0.00050418	1.2293E-05	No Reduction	No Reduction	1.1603E-05	1.0675E-05
0.274375904	0.252425843	333	2035	1.91150461	0.07218058	No Reduction	No Reduction	0.04568359	0.0420289
1.794941656	1.651346289	1623	2035	60.3315377	2.30363002	No Reduction	No Reduction	1.45659515	1.34006751
1.614461254	1.485304354	1163	2035	38.6400376	1.48556859	No Reduction	No Reduction	0.93880922	0.86370448
0.374207526	0.344270928	224	2035	1.71757997	0.0663443	No Reduction	No Reduction	0.04191124	0.03855834
0.833859396	0.76715067	373	2035	6.33818781	0.24628495	No Reduction	No Reduction	0.15551478	0.1430736
0.077130614	0.070960164	91	2035	0.15651042	0.00379874	No Reduction	No Reduction	0.00350944	0.00322869
0.057066905	0.052501555	56	2035	0.07117562	0.0017284	No Reduction	No Reduction	0.00159787	0.00147004
0.033182859	0.030528232	26	2035	0.01919227	0.00046629	No Reduction	No Reduction	0.00043138	0.00039687
0.058272541	0.053610735	38	2035	0.04921961	0.00119623	No Reduction	No Reduction	0.00110718	0.0010186
0.064752885	0.059572658	33	2035	0.04745512	0.00115377	No Reduction	No Reduction	0.00106842	0.00098295
0.079689611	0.073314444	32	2035	0.05547596	0.00135188	No Reduction	No Reduction	0.00127503	0.00117303
0.130836109	0.120369222	42	2035	0.11948899	0.00291236	No Reduction	No Reduction	0.00274756	0.00252775
0.141682588	0.13034798	37	2035	0.11395108	0.00277778	No Reduction	No Reduction	0.00262113	0.00241144
0.047219048	0.043441524	10	2035	0.01026107	0.00025016	No Reduction	No Reduction	0.0002361	0.00021721
0.011586166	0.010659272	2	2035	0.00050344	1.2275E-05	No Reduction	No Reduction	1.1586E-05	1.0659E-05

0.12551781	42	0.002988519	20.84193349	2033
0.119701789	37	0.003235183	22.5621697	2033
0.010779012	10	0.001077901	7.517283126	2033
0.000528854	2	0.000264427	1.844112677	2033
2.032355339	333	0.006103169	42.5635019	2034
63.94901733	1620	0.039474702	275.2965722	2034
40.98352626	1161	0.035300195	246.1835591	2034
1.828522548	224	0.008163047	56.9290904	2034
6.71376256	372	0.018047749	125.8650002	2034
0.164059685	91	0.001802854	12.57310156	2034
0.074611537	56	0.001332349	9.291801047	2034
0.020119504	26	0.000773827	5.396669929	2034
0.051598846	38	0.001357864	9.469746157	2034
0.049750418	33	0.001507588	10.5139216	2034
0.058188381	32	0.001818387	12.6814302	2034
0.125333089	42	0.002984121	20.81126104	2034
0.119525628	37	0.003230422	22.52896562	2034
0.010763149	10	0.001076315	7.506220163	2034
0.000528075	2	0.000264038	1.841398751	2034
2.029368777	333	0.006094201	42.50095451	2035
64.0917629	1623	0.039489688	275.401081	2035
41.06441537	1163	0.035309042	246.2452561	2035
1.82583552	224	0.008151051	56.84543267	2035
6.739987533	373	0.018069672	126.0178902	2035
0.163818598	91	0.001800204	12.55462529	2035
0.074501895	56	0.001330391	9.278146674	2035
0.020089938	26	0.00077269	5.388739481	2035
0.051523021	38	0.001355869	9.455830292	2035
0.049677309	33	0.001505373	10.49847131	2035
0.058102872	32	0.001815715	12.66279474	2035
0.125148911	42	0.002979736	20.78067873	2035
0.119349984	37	0.003225675	22.49585914	2035
0.010747333	10	0.001074733	7.495189715	2035
0.000527299	2	0.00026365	1.838692801	2035

Engines hp>-750 Percentages by Well Depth and Pollutant

Well Depth	PMTON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
1,000	Emissions for Engines hp >750	0	0	0	0	0	0
	% of total	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2,000	Emissions for Engines hp >750	0	0	0	0	0	0
	% of total	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
3,000	Emissions for Engines hp >750	0	0	0	0	0	0
	% of total	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
4,000	Emissions for Engines hp >750	0	0	0	0	0	0
	% of total	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
5,000	Emissions for Engines hp >750	0	0	0	0	0	0
	% of total	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
6,000	Emissions for Engines hp >750	2.068292226	0.095849286	1.616879051	0.00189998	0.060598702	0.055750806
	% of total	80.74%	71.96%	81.62%	81.52%	65.87%	65.87%
7,000	Emissions for Engines hp >750	2.481950671	0.115019145	1.940254861	0.002279976	0.072718442	0.066900968
	% of total	80.88%	72.17%	81.74%	81.64%	66.11%	66.11%
8,000	Emissions for Engines hp >750	3.102438339	0.14377393	2.425318576	0.002849969	0.090898054	0.083626209
	% of total	81.03%	72.38%	81.86%	81.77%	66.35%	66.35%
9,000	Emissions for Engines hp >750	3.722926007	0.172528716	2.910382292	0.003419964	0.109077665	0.100351452
	% of total	81.12%	72.52%	81.94%	81.85%	66.52%	66.52%
10,000	Emissions for Engines hp >750	4.75707212	0.22045336	3.718821817	0.004369954	0.139377016	0.128226854
	% of total	81.23%	72.67%	82.03%	81.93%	66.70%	66.70%
11,000	Emissions for Engines hp >750	7.334553778	0.339899623	5.733757639	0.006737686	0.214894413	0.197702859
	% of total	84.29%	76.77%	85.04%	84.96%	71.34%	71.34%
12,000	Emissions for Engines hp >750	9.168192222	0.424874529	7.167197048	0.008422107	0.268618015	0.247128575
	% of total	84.35%	76.85%	85.09%	85.01%	71.44%	71.44%
13,000	Emissions for Engines hp >750	11.26377902	0.521988708	8.805413517	0.01034716	0.330016418	0.303615104
	% of total	84.39%	76.91%	85.12%	85.04%	71.51%	71.51%
14,000	Emissions for Engines hp >750	13.88326251	0.643381431	10.8531841	0.012753478	0.406764424	0.374223269
	% of total	84.42%	76.96%	85.15%	85.07%	71.57%	71.57%
15,000	Emissions for Engines hp >750	17.0266427	0.789052697	13.3105088	0.015641057	0.498862028	0.458953066
	% of total	84.45%	76.99%	85.17%	85.09%	71.61%	71.61%

Drilled Well Percentages by Year Associated with Each Well Depth

2012	2015	2016	2017	2018	2019
305	323	323	323	325	325
8.99%	8.14%	8.14%	8.12%	8.16%	8.15%
1,414	1,575	1,577	1,581	1,582	1,586
41.69%	39.71%	39.72%	39.76%	39.73%	39.77%
930	1,128	1,130	1,131	1,133	1,134
27.42%	28.44%	28.46%	28.45%	28.45%	28.44%
174	218	218	219	219	219
5.13%	5.50%	5.49%	5.51%	5.50%	5.49%
300	363	363	363	364	365
8.84%	9.15%	9.14%	9.13%	9.14%	9.15%
69	89	89	89	89	89
2.03%	2.24%	2.24%	2.24%	2.24%	2.23%
44	55	55	55	55	55
1.30%	1.39%	1.39%	1.38%	1.38%	1.38%
23	25	25	25	25	25
0.68%	0.63%	0.63%	0.63%	0.63%	0.63%
33	37	37	37	37	37
0.97%	0.93%	0.93%	0.93%	0.93%	0.93%
21	33	33	33	33	33
0.62%	0.83%	0.83%	0.83%	0.83%	0.83%
25	31	31	31	31	31
0.74%	0.78%	0.78%	0.78%	0.78%	0.78%
27	41	41	41	41	41
0.80%	1.03%	1.03%	1.03%	1.03%	1.03%
20	36	36	36	36	36
0.59%	0.91%	0.91%	0.91%	0.90%	0.90%
6	10	10	10	10	10
0.18%	0.25%	0.25%	0.25%	0.25%	0.25%
1	2	2	2	2	2
0.03%	0.05%	0.05%	0.05%	0.05%	0.05%
3392	3966	3970	3976	3982	3988
100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Total Wells:

2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
326	326	326	327	327	328	328	329	329	330	330	330	332	332	333	333
8.16%	8.15%	8.14%	8.15%	8.14%	8.15%	8.14%	8.15%	8.14%	8.15%	8.14%	8.13%	8.17%	8.16%	8.17%	8.16%
1,588	1,590	1,595	1,598	1,599	1,601	1,603	1,604	1,608	1,610	1,613	1,616	1,617	1,617	1620	1623
39.76%	39.75%	39.82%	39.83%	39.80%	39.79%	39.78%	39.74%	39.78%	39.77%	39.79%	39.80%	39.77%	39.72%	39.74%	39.75%
1,136	1,139	1,140	1,141	1,142	1,144	1,146	1,148	1,150	1,152	1,153	1,155	1,157	1,159	1161	1163
28.44%	28.48%	28.46%	28.44%	28.42%	28.43%	28.44%	28.44%	28.45%	28.46%	28.44%	28.45%	28.46%	28.47%	28.48%	28.48%
220	220	220	221	221	221	222	222	222	222	223	223	224	224	224	224
5.51%	5.50%	5.49%	5.51%	5.50%	5.49%	5.51%	5.50%	5.49%	5.48%	5.50%	5.49%	5.51%	5.50%	5.49%	5.49%
365	366	366	366	368	368	368	369	369	370	371	371	371	372	372	373
9.14%	9.15%	9.14%	9.12%	9.16%	9.15%	9.13%	9.14%	9.13%	9.14%	9.15%	9.14%	9.12%	9.14%	9.12%	9.14%
89	89	89	89	91	91	91	91	91	91	91	91	91	91	91	91
2.23%	2.23%	2.22%	2.22%	2.26%	2.26%	2.26%	2.25%	2.25%	2.25%	2.24%	2.24%	2.24%	2.24%	2.23%	2.23%
55	55	55	55	55	56	56	56	56	56	56	56	56	56	56	56
1.38%	1.38%	1.37%	1.37%	1.37%	1.39%	1.39%	1.39%	1.39%	1.38%	1.38%	1.38%	1.38%	1.38%	1.37%	1.37%
25	25	25	25	25	25	25	25	25	25	25	25	25	26	26	26
0.63%	0.63%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.61%	0.64%	0.64%	0.64%
37	37	37	37	37	37	37	38	38	38	38	38	38	38	38	38
0.93%	0.93%	0.92%	0.92%	0.92%	0.92%	0.92%	0.94%	0.94%	0.94%	0.94%	0.94%	0.93%	0.93%	0.93%	0.93%
33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
0.83%	0.83%	0.82%	0.82%	0.82%	0.82%	0.82%	0.82%	0.82%	0.82%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%
31	31	31	31	31	31	31	31	31	31	31	32	32	32	32	32
0.78%	0.78%	0.77%	0.77%	0.77%	0.77%	0.77%	0.77%	0.77%	0.77%	0.76%	0.79%	0.79%	0.79%	0.78%	0.78%
41	41	41	41	41	41	41	41	41	41	41	41	41	42	42	42
1.03%	1.03%	1.02%	1.02%	1.02%	1.02%	1.02%	1.02%	1.01%	1.01%	1.01%	1.01%	1.01%	1.03%	1.03%	1.03%
36	36	36	36	36	36	37	37	37	37	37	37	37	37	37	37
0.90%	0.90%	0.90%	0.90%	0.90%	0.89%	0.92%	0.92%	0.92%	0.91%	0.91%	0.91%	0.91%	0.91%	0.91%	0.91%
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.24%
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%
3994	4000	4006	4012	4018	4024	4030	4036	4042	4048	4054	4060	4066	4071	4077	4083
100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

% Reduction for Tier 4i NOXGBHP	% Reduction for Tier 4f NOXGBHP	% Reduction for Tier 4i ROGGBHP	% Reduction for Tier 4f ROGGBHP	% Reduction for Tier 4i PM10GBHP	% Reduction for Tier 4f PM10GBHP
0.521755	0.521755425	No Reduction	0.444316176	0.560535986	0.81165828

Engines hp>-750 Percentages by Well Depth and Pollutant

Well Depth		NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
1000	% of total	0	0	0	0	0	0
2000	% of total	0	0	0	0	0	0
3000	% of total	0	0	0	0	0	0
4000	% of total	0	0	0	0	0	0
5000	% of total	0	0	0	0	0	0
6000	% of total	0.807379	0.719641	0.816203	0.815231	0.658707	0.658707
7000	% of total	0.808825	0.721706	0.817399	0.816439	0.661118	0.661118
8000	% of total	0.810275	0.723782	0.818598	0.81765	0.663547	0.663547
9000	% of total	0.811245	0.725173	0.819399	0.81846	0.665176	0.665176
10000	% of total	0.812302	0.726691	0.820272	0.819342	0.666956	0.666956
11000	% of total	0.842941	0.767685	0.850424	0.84964	0.713396	0.713396
12000	% of total	0.843473	0.768479	0.850863	0.850083	0.714351	0.714351
13000	% of total	0.84387	0.76907	0.85119	0.850413	0.715063	0.715063
14000	% of total	0.844198	0.769559	0.851460	0.850686	0.715652	0.715652
15000	% of total	0.844458	0.769948	0.851674	0.850903	0.71612	0.71612

Drilled Well Percentages by Year Associated with Each Well Depth

	2012	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
% of total	0.089917	0.081442	0.08136	0.081237	0.081617	0.081494	0.081622	0.0815	0.081378	0.081505	0.081384
% of total	0.416863	0.397126	0.397229	0.397636	0.397288	0.397693	0.397596	0.3975	0.398153	0.398305	0.397959
% of total	0.274175	0.284418	0.284635	0.284457	0.28453	0.284353	0.284427	0.28475	0.284573	0.284397	0.284221
% of total	0.051297	0.054967	0.054912	0.05508	0.054997	0.054915	0.055083	0.055	0.054918	0.055085	0.055002
% of total	0.088443	0.091528	0.091436	0.091298	0.091411	0.091525	0.091387	0.0915	0.091363	0.091226	0.091588
% of total	0.020342	0.022441	0.022418	0.022384	0.022351	0.022317	0.022283	0.02225	0.022217	0.022183	0.022648
% of total	0.012972	0.013868	0.013854	0.013833	0.013812	0.013791	0.013771	0.01375	0.013729	0.013709	0.013688
% of total	0.006781	0.006304	0.006297	0.006288	0.006278	0.006269	0.006259	0.00625	0.006241	0.006231	0.006222
% of total	0.009729	0.009329	0.00932	0.009306	0.009292	0.009278	0.009264	0.00925	0.009236	0.009222	0.009209
% of total	0.006191	0.008321	0.008312	0.0083	0.008287	0.008275	0.008262	0.00825	0.008238	0.008225	0.008213
% of total	0.00737	0.007816	0.007809	0.007797	0.007785	0.007773	0.007762	0.00775	0.007738	0.007727	0.007715
% of total	0.00796	0.010338	0.010327	0.010312	0.010296	0.010281	0.010265	0.01025	0.010235	0.010219	0.010204
% of total	0.005896	0.009077	0.009068	0.009054	0.009041	0.009027	0.009014	0.009	0.008987	0.008973	0.00896
% of total	0.001769	0.002521	0.002519	0.002515	0.002511	0.002508	0.002504	0.0025	0.002496	0.002493	0.002489
% of total	0.000295	0.000504	0.000504	0.000503	0.000502	0.000502	0.000501	0.0005	0.000499	0.000499	0.000498

Combined Percentages for Engines hp>-750 and Drilled Wells

	2012						2015						2016						
	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6000	0.016424	0.014639	0.016603	0.016583	0.013399	0.013399	0.018118	0.016149	0.018316	0.018294	0.014782	0.014782	0.0181	0.016133	0.018298	0.018276	0.014767	0.014767	0.018073
7000	0.010492	0.009362	0.010603	0.010591	0.008576	0.008576	0.011217	0.010009	0.011336	0.011322	0.009168	0.009168	0.011205	0.009998	0.011324	0.011311	0.009159	0.009159	0.011188
8000	0.005494	0.004908	0.005551	0.005544	0.004499	0.004499	0.005108	0.004562	0.00516	0.005154	0.004183	0.004183	0.005102	0.004558	0.005155	0.005149	0.004179	0.004179	0.005095
9000	0.007892	0.007055	0.007972	0.007963	0.006471	0.006471	0.007568	0.006765	0.007644	0.007636	0.006206	0.006206	0.007561	0.006759	0.007637	0.007628	0.006199	0.006199	0.007549
10000	0.005029	0.004499	0.005078	0.005073	0.004129	0.004129	0.006759	0.006047	0.006825	0.006818	0.00555	0.00555	0.006752	0.006041	0.006818	0.006811	0.005544	0.005544	0.006742
11000	0.006213	0.005658	0.006268	0.006262	0.005258	0.005258	0.006589	0.006001	0.006647	0.006641	0.005576	0.005576	0.006582	0.005995	0.006641	0.006634	0.005571	0.005571	0.006572
12000	0.006714	0.006117	0.006773	0.006767	0.005686	0.005686	0.00872	0.007944	0.008796	0.008788	0.007385	0.007385	0.008711	0.007936	0.008787	0.008779	0.007377	0.007377	0.008698
13000	0.004976	0.004535	0.005019	0.005014	0.004216	0.004216	0.00766	0.006981	0.007726	0.007719	0.006491	0.006491	0.007652	0.006974	0.007719	0.007712	0.006484	0.006484	0.007641
14000	0.001493	0.001361	0.001506	0.001505	0.001266	0.001266	0.002129	0.00194	0.002147	0.002145	0.001804	0.001804	0.002126	0.001938	0.002145	0.002143	0.001803	0.001803	0.002123
15000	0.000249	0.000227	0.000251	0.000251	0.000211	0.000211	0.000426	0.000388	0.000429	0.000429	0.000361	0.000361	0.000425	0.000388	0.000429	0.000429	0.000361	0.000361	0.000425

% Reductic	% Reductic	% Reductic	% Reductic	% Reductic	% Reduction for Tier 4f PM10GBHP
0.521755	0.521755	No Reduct	0.444316	0.560536	0.811658

Final % Reduction GivenTier 4i

	2012						2015						2016						
	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct

2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
0.081511	0.08139	0.081516	0.081395	0.081522	0.081401	0.081281	0.081653	0.081552	0.081678	0.081558
0.397863	0.397767	0.397423	0.397823	0.397727	0.397879	0.39803	0.397688	0.3972	0.397351	0.397502
0.284294	0.284367	0.28444	0.284513	0.284585	0.28441	0.284483	0.284555	0.284697	0.284768	0.28484
0.05492	0.055087	0.055005	0.054923	0.054842	0.055007	0.054926	0.055091	0.055023	0.054942	0.054862
0.091451	0.091315	0.091427	0.091291	0.091403	0.091515	0.091379	0.091244	0.091378	0.091244	0.091354
0.022614	0.022581	0.022547	0.022514	0.02248	0.022447	0.022414	0.022381	0.022353	0.02232	0.022288
0.013917	0.013896	0.013875	0.013855	0.013834	0.013814	0.013793	0.013773	0.013756	0.013736	0.013715
0.006213	0.006203	0.006194	0.006185	0.006176	0.006167	0.006158	0.006149	0.006387	0.006377	0.006368
0.009195	0.009181	0.009415	0.009401	0.009387	0.009373	0.00936	0.009346	0.009334	0.009321	0.009307
0.008201	0.008189	0.008176	0.008164	0.008152	0.00814	0.008128	0.008116	0.008106	0.008094	0.008082
0.007704	0.007692	0.007681	0.007669	0.007658	0.007647	0.007882	0.00787	0.00786	0.007849	0.007837
0.010189	0.010174	0.010159	0.010143	0.010128	0.010113	0.010099	0.010084	0.010317	0.010302	0.010287
0.008946	0.009181	0.009167	0.009154	0.00914	0.009127	0.009113	0.0091	0.009089	0.009075	0.009062
0.002485	0.002481	0.002478	0.002474	0.00247	0.002467	0.002463	0.002459	0.002456	0.002453	0.002449
0.000497	0.000496	0.000496	0.000495	0.000494	0.000493	0.000493	0.000492	0.000491	0.000491	0.00049

2017						2018						2019						20		
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.016109	0.01827	0.018248	0.014745	0.014745	0.018045	0.016084	0.018243	0.018221	0.014722	0.014722	0.018018	0.01606	0.018215	0.018193	0.0147	0.0147	0.017991	0.016036	0.018188	
0.009983	0.011307	0.011294	0.009145	0.009145	0.011172	0.009968	0.01129	0.011277	0.009131	0.009131	0.011155	0.009953	0.011273	0.01126	0.009118	0.009118	0.011138	0.009938	0.011256	
0.004551	0.005147	0.005141	0.004172	0.004172	0.005087	0.004544	0.005139	0.005133	0.004166	0.004166	0.005079	0.004537	0.005132	0.005126	0.00416	0.00416	0.005072	0.00453	0.005124	
0.006748	0.007625	0.007616	0.00619	0.00619	0.007538	0.006738	0.007614	0.007605	0.006181	0.006181	0.007527	0.006728	0.007602	0.007594	0.006171	0.006171	0.007515	0.006718	0.007591	
0.006031	0.006808	0.0068	0.005536	0.005536	0.006732	0.006022	0.006798	0.00679	0.005527	0.005527	0.006722	0.006013	0.006788	0.00678	0.005519	0.005519	0.006712	0.006004	0.006777	
0.005985	0.006631	0.006624	0.005562	0.005562	0.006562	0.005976	0.006621	0.006614	0.005554	0.005554	0.006552	0.005967	0.006611	0.006605	0.005545	0.005545	0.006543	0.005958	0.006601	
0.007924	0.008774	0.008766	0.007366	0.007366	0.008685	0.007913	0.008761	0.008753	0.007355	0.007355	0.008672	0.007901	0.008748	0.00874	0.007344	0.007344	0.008659	0.007889	0.008734	
0.006963	0.007707	0.0077	0.006474	0.006474	0.007629	0.006953	0.007695	0.007688	0.006465	0.006465	0.007618	0.006942	0.007684	0.007677	0.006455	0.006455	0.007606	0.006932	0.007672	
0.001936	0.002141	0.00214	0.0018	0.0018	0.00212	0.001933	0.002138	0.002136	0.001797	0.001797	0.002117	0.00193	0.002135	0.002133	0.001795	0.001795	0.002114	0.001927	0.002132	
0.000387	0.000428	0.000428	0.00036	0.00036	0.000424	0.000387	0.000428	0.000427	0.00036	0.00036	0.000423	0.000386	0.000427	0.000427	0.000359	0.000359	0.000423	0.000386	0.000426	

2017						2018						2019						20	
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct

20						2021							2022							2023		
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.018166	0.014678	0.014678	0.017964	0.016012	0.018161	0.018139	0.014656	0.014656	0.017937	0.015988	0.018133	0.018112	0.014634	0.014634	0.01791	0.015964	0.018106	0.018085	0.014612				
0.011243	0.009104	0.009104	0.011121	0.009923	0.011239	0.011226	0.00909	0.00909	0.011105	0.009909	0.011222	0.011209	0.009077	0.009077	0.011088	0.009894	0.011206	0.011192	0.009063				
0.005118	0.004153	0.004153	0.005064	0.004524	0.005116	0.00511	0.004147	0.004147	0.005057	0.004517	0.005109	0.005103	0.004141	0.004141	0.005049	0.00451	0.005101	0.005095	0.004135				
0.007582	0.006162	0.006162	0.007504	0.006708	0.007579	0.007571	0.006153	0.006153	0.007493	0.006698	0.007568	0.007559	0.006144	0.006144	0.007482	0.006688	0.007557	0.007548	0.006134				
0.00677	0.005511	0.005511	0.006701	0.005995	0.006767	0.00676	0.005502	0.005502	0.006691	0.005986	0.006757	0.006749	0.005494	0.005494	0.006681	0.005977	0.006747	0.006739	0.005486				
0.006595	0.005537	0.005537	0.006533	0.00595	0.006591	0.006585	0.005529	0.005529	0.006523	0.005941	0.006581	0.006575	0.005521	0.005521	0.006513	0.005932	0.006571	0.006565	0.005512				
0.008726	0.007333	0.007333	0.008646	0.007877	0.008721	0.008713	0.007322	0.007322	0.008633	0.007865	0.008708	0.0087	0.007311	0.007311	0.00862	0.007853	0.008695	0.008687	0.0073				
0.007665	0.006445	0.006445	0.007595	0.006922	0.007661	0.007654	0.006436	0.006436	0.007583	0.006911	0.007649	0.007642	0.006426	0.006426	0.007572	0.006901	0.007638	0.007631	0.006416				
0.00213	0.001792	0.001792	0.00211	0.001924	0.002129	0.002127	0.001789	0.001789	0.002107	0.001921	0.002125	0.002124	0.001786	0.001786	0.002104	0.001918	0.002122	0.00212	0.001784				
0.000426	0.000359	0.000359	0.000422	0.000385	0.000426	0.000425	0.000358	0.000358	0.000422	0.000384	0.000425	0.000425	0.000358	0.000358	0.000421	0.000384	0.000425	0.000424	0.000357				

20						2021							2022							2023		
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct

2024						2025						2026					
PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.014612	0.018286	0.016298	0.018485	0.018463	0.014918	0.014918	0.018258	0.016274	0.018458	0.018436	0.014896	0.014896	0.018231	0.01625	0.01843	0.018408	0.014874	0.014874	0.018204
0.009063	0.011072	0.009879	0.011189	0.011176	0.00905	0.00905	0.011256	0.010044	0.011375	0.011362	0.0092	0.0092	0.011239	0.010029	0.011358	0.011345	0.009187	0.009187	0.011223
0.004135	0.005042	0.004503	0.005093	0.005087	0.004129	0.004129	0.005034	0.004497	0.005086	0.00508	0.004122	0.004122	0.005027	0.00449	0.005078	0.005072	0.004116	0.004116	0.005019
0.006134	0.00747	0.006678	0.007545	0.007537	0.006125	0.006125	0.007459	0.006668	0.007534	0.007526	0.006116	0.006116	0.007448	0.006658	0.007523	0.007514	0.006107	0.006107	0.007638
0.005486	0.006671	0.005968	0.006737	0.006729	0.005478	0.005478	0.006662	0.005959	0.006727	0.006719	0.00547	0.00547	0.006652	0.005951	0.006717	0.006709	0.005461	0.005461	0.006642
0.005512	0.006504	0.005923	0.006561	0.006555	0.005504	0.005504	0.006494	0.005914	0.006551	0.006545	0.005496	0.005496	0.006484	0.005905	0.006542	0.006536	0.005488	0.005488	0.006475
0.0073	0.008607	0.007842	0.008682	0.008674	0.007289	0.007289	0.008594	0.00783	0.008669	0.008661	0.007278	0.007278	0.008581	0.007818	0.008656	0.008648	0.007268	0.007268	0.008568
0.006416	0.007561	0.006891	0.007626	0.007619	0.006407	0.006407	0.00755	0.00688	0.007615	0.007608	0.006397	0.006397	0.007748	0.007061	0.007815	0.007808	0.006565	0.006565	0.007736
0.001784	0.002101	0.001915	0.002119	0.002117	0.001781	0.001781	0.002098	0.001912	0.002116	0.002114	0.001778	0.001778	0.002095	0.00191	0.002113	0.002111	0.001776	0.001776	0.002092
0.000357	0.00042	0.000383	0.000424	0.000424	0.000356	0.000356	0.00042	0.000383	0.000423	0.000423	0.000356	0.000356	0.000419	0.000382	0.000423	0.000422	0.000355	0.000355	0.000418

2024						2025						2026					
PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct

2027						2028						2029						20	
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.016226	0.018403	0.018381	0.014852	0.014852	0.018177	0.016202	0.018376	0.018354	0.01483	0.01483	0.01815	0.016178	0.018348	0.018327	0.014808	0.014808	0.018123	0.016154	0.018321
0.010014	0.011342	0.011328	0.009173	0.009173	0.011206	0.009999	0.011325	0.011311	0.009159	0.009159	0.011189	0.009984	0.011308	0.011295	0.009146	0.009146	0.011173	0.009969	0.011291
0.004483	0.005071	0.005065	0.00411	0.00411	0.005012	0.004477	0.005063	0.005057	0.004104	0.004104	0.005004	0.00447	0.005056	0.00505	0.004098	0.004098	0.004997	0.004463	0.005048
0.006828	0.007715	0.007706	0.006263	0.006263	0.007627	0.006818	0.007703	0.007695	0.006254	0.006254	0.007615	0.006807	0.007692	0.007683	0.006244	0.006244	0.007604	0.006797	0.007681
0.005942	0.006707	0.006699	0.005453	0.005453	0.006632	0.005933	0.006697	0.006689	0.005445	0.005445	0.006622	0.005924	0.006687	0.006679	0.005437	0.005437	0.006612	0.005915	0.006677
0.005896	0.006532	0.006526	0.00548	0.00548	0.006465	0.005888	0.006522	0.006516	0.005471	0.005471	0.006455	0.005879	0.006513	0.006507	0.005463	0.005463	0.006446	0.00587	0.006503
0.007807	0.008644	0.008636	0.007257	0.007257	0.008556	0.007795	0.008631	0.008623	0.007246	0.007246	0.008543	0.007784	0.008618	0.00861	0.007235	0.007235	0.00853	0.007772	0.008605
0.00705	0.007803	0.007796	0.006555	0.006555	0.007725	0.00704	0.007792	0.007785	0.006546	0.006546	0.007713	0.00703	0.00778	0.007773	0.006536	0.006536	0.007702	0.007019	0.007769
0.001907	0.00211	0.002108	0.001773	0.001773	0.002089	0.001904	0.002107	0.002105	0.001771	0.001771	0.002085	0.001901	0.002103	0.002101	0.001768	0.001768	0.002082	0.001898	0.0021
0.000382	0.000422	0.000422	0.000355	0.000355	0.000418	0.000381	0.000421	0.000421	0.000354	0.000354	0.000417	0.00038	0.000421	0.00042	0.000354	0.000354	0.000417	0.00038	0.00042

2027						2028						2029						20	
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct

30						2031							2032							2033		
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.018299	0.014786	0.014786	0.018096	0.01613	0.018294	0.018272	0.014764	0.014764	0.01807	0.016106	0.018267	0.018245	0.014742	0.014742	0.018048	0.016086	0.018245	0.018223	0.014724	0.014724	0.018027	0.016067	0.018223
0.011278	0.009132	0.009132	0.011156	0.009955	0.011274	0.011261	0.009119	0.009119	0.01114	0.00994	0.011258	0.011245	0.009105	0.009105	0.011126	0.009928	0.011244	0.011231	0.009094	0.009094	0.011113	0.009916	0.011231
0.005042	0.004092	0.004092	0.004989	0.004457	0.005041	0.005035	0.004086	0.004086	0.004982	0.00445	0.005033	0.005027	0.00408	0.00408	0.005175	0.004623	0.005228	0.005222	0.004238	0.004238	0.005169	0.004617	0.005222
0.007672	0.006235	0.006235	0.007593	0.006787	0.007669	0.00766	0.006226	0.006226	0.007582	0.006777	0.007658	0.007649	0.006217	0.006217	0.007572	0.006769	0.007649	0.00764	0.006209	0.006209	0.007562	0.006761	0.00764
0.00667	0.005429	0.005429	0.006602	0.005907	0.006667	0.00666	0.005421	0.005421	0.006593	0.005898	0.006657	0.00665	0.005413	0.005413	0.006585	0.005891	0.006649	0.006642	0.005406	0.005406	0.006576	0.005883	0.006642
0.006497	0.005455	0.005455	0.006644	0.006051	0.006703	0.006697	0.005623	0.005623	0.006634	0.006042	0.006693	0.006687	0.005615	0.005615	0.006626	0.006034	0.006685	0.006679	0.005608	0.005608	0.006616	0.006025	0.006679
0.008597	0.007225	0.007225	0.008518	0.00776	0.008592	0.008585	0.007214	0.007214	0.008505	0.007749	0.00858	0.008572	0.007203	0.007203	0.008702	0.007928	0.008778	0.00877	0.00737	0.00737	0.008691	0.007917	0.00877
0.007762	0.006526	0.006526	0.00769	0.007009	0.007757	0.00775	0.006517	0.006517	0.007679	0.006998	0.007746	0.007739	0.006507	0.006507	0.00767	0.00699	0.007736	0.007729	0.006499	0.006499	0.007659	0.006981	0.007729
0.002098	0.001765	0.001765	0.002079	0.001895	0.002097	0.002095	0.001763	0.001763	0.002076	0.001893	0.002094	0.002092	0.00176	0.00176	0.002074	0.00189	0.002092	0.00209	0.001758	0.001758	0.002072	0.001888	0.00209
0.00042	0.000353	0.000353	0.000416	0.000379	0.00042	0.000419	0.000353	0.000353	0.000415	0.000379	0.000419	0.000419	0.000352	0.000352	0.000415	0.000378	0.000418	0.000418	0.000352	0.000352	0.000414	0.000378	0.000418

30						2031							2032							2033		
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct

2034						2035						
PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0.014724	0.018021	0.016063	0.018218	0.018196	0.014703	0.014703	0.017994	0.016039	0.018191	0.018169	0.014681	0.014681
0.009094	0.01111	0.009913	0.011227	0.011214	0.009081	0.009081	0.011093	0.009898	0.011211	0.011198	0.009068	0.009068
0.004238	0.005167	0.004616	0.00522	0.005214	0.004232	0.004232	0.00516	0.004609	0.005213	0.005207	0.004225	0.004225
0.006209	0.007561	0.006759	0.007637	0.007629	0.0062	0.0062	0.00755	0.006749	0.007626	0.007617	0.006191	0.006191
0.005406	0.006575	0.005882	0.006639	0.006632	0.005398	0.005398	0.006565	0.005873	0.00663	0.006622	0.005391	0.005391
0.005608	0.006616	0.006025	0.006675	0.006669	0.005599	0.005599	0.006606	0.006017	0.006665	0.006659	0.005591	0.005591
0.00737	0.008689	0.007917	0.008765	0.008757	0.007359	0.007359	0.008676	0.007905	0.008752	0.008744	0.007348	0.007348
0.006499	0.007658	0.00698	0.007725	0.007718	0.006489	0.006489	0.007647	0.006969	0.007713	0.007706	0.00648	0.00648
0.001758	0.002071	0.001888	0.002088	0.002087	0.001755	0.001755	0.002068	0.001885	0.002085	0.002083	0.001753	0.001753
0.000352	0.000414	0.000378	0.000418	0.000417	0.000351	0.000351	0.000414	0.000377	0.000417	0.000417	0.000351	0.000351

2034						2035						
PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction

6000	0.008569	No Reduct	No Reduct	No Reduct	0.007511	0.007511	0.009453	No Reduct	No Reduct	No Reduct	0.008286	0.008286	0.009444	No Reduct	No Reduct	No Reduct	0.008277	0.008277	0.009429
7000	0.005474	No Reduct	No Reduct	No Reduct	0.004807	0.004807	0.005852	No Reduct	No Reduct	No Reduct	0.005139	0.005139	0.005846	No Reduct	No Reduct	No Reduct	0.005134	0.005134	0.005838
8000	0.002867	No Reduct	No Reduct	No Reduct	0.002522	0.002522	0.002665	No Reduct	No Reduct	No Reduct	0.002345	0.002345	0.002662	No Reduct	No Reduct	No Reduct	0.002342	0.002342	0.002658
9000	0.004118	No Reduct	No Reduct	No Reduct	0.003627	0.003627	0.003949	No Reduct	No Reduct	No Reduct	0.003478	0.003478	0.003945	No Reduct	No Reduct	No Reduct	0.003475	0.003475	0.003939
10000	0.002624	No Reduct	No Reduct	No Reduct	0.002315	0.002315	0.003527	No Reduct	No Reduct	No Reduct	0.003111	0.003111	0.003523	No Reduct	No Reduct	No Reduct	0.003108	0.003108	0.003518
11000	0.003242	No Reduct	No Reduct	No Reduct	0.002947	0.002947	0.003438	No Reduct	No Reduct	No Reduct	0.003126	0.003126	0.003434	No Reduct	No Reduct	No Reduct	0.003123	0.003123	0.003429
12000	0.003503	No Reduct	No Reduct	No Reduct	0.003187	0.003187	0.00455	No Reduct	No Reduct	No Reduct	0.004139	0.004139	0.004545	No Reduct	No Reduct	No Reduct	0.004135	0.004135	0.004538
13000	0.002596	No Reduct	No Reduct	No Reduct	0.002363	0.002363	0.003997	No Reduct	No Reduct	No Reduct	0.003638	0.003638	0.003993	No Reduct	No Reduct	No Reduct	0.003635	0.003635	0.003987
14000	0.000779	No Reduct	No Reduct	No Reduct	0.00071	0.00071	0.001111	No Reduct	No Reduct	No Reduct	0.001011	0.001011	0.001109	No Reduct	No Reduct	No Reduct	0.00101	0.00101	0.001108
15000	0.00013	No Reduct	No Reduct	No Reduct	0.000118	0.000118	0.000222	No Reduct	No Reduct	No Reduct	0.000202	0.000202	0.000222	No Reduct	No Reduct	No Reduct	0.000202	0.000202	0.000222

Final % Reduction GivenTier 4f

	2012						2015						2016						
	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
6000	0.008569	0.006504	No Reduct	No Reduct	0.010876	0.010876	0.009453	0.007175	No Reduct	No Reduct	0.011998	0.011998	0.009444	0.007168	No Reduct	No Reduct	0.011986	0.011986	0.009429
7000	0.005474	0.00416	No Reduct	No Reduct	0.006961	0.006961	0.005852	0.004447	No Reduct	No Reduct	0.007442	0.007442	0.005846	0.004442	No Reduct	No Reduct	0.007434	0.007434	0.005838
8000	0.002867	0.002181	No Reduct	No Reduct	0.003652	0.003652	0.002665	0.002027	No Reduct	No Reduct	0.003395	0.003395	0.002662	0.002025	No Reduct	No Reduct	0.003392	0.003392	0.002658
9000	0.004118	0.003135	No Reduct	No Reduct	0.005253	0.005253	0.003949	0.003006	No Reduct	No Reduct	0.005037	0.005037	0.003945	0.003003	No Reduct	No Reduct	0.005032	0.005032	0.003939
10000	0.002624	0.001999	No Reduct	No Reduct	0.003351	0.003351	0.003527	0.002687	No Reduct	No Reduct	0.004504	0.004504	0.003523	0.002684	No Reduct	No Reduct	0.0045	0.0045	0.003518
11000	0.003242	0.002514	No Reduct	No Reduct	0.004268	0.004268	0.003438	0.002666	No Reduct	No Reduct	0.004526	0.004526	0.003434	0.002663	No Reduct	No Reduct	0.004521	0.004521	0.003429
12000	0.003503	0.002718	No Reduct	No Reduct	0.004615	0.004615	0.00455	0.00353	No Reduct	No Reduct	0.005994	0.005994	0.004545	0.003526	No Reduct	No Reduct	0.005988	0.005988	0.004538
13000	0.002596	0.002015	No Reduct	No Reduct	0.003422	0.003422	0.003997	0.003102	No Reduct	No Reduct	0.005268	0.005268	0.003993	0.003099	No Reduct	No Reduct	0.005263	0.005263	0.003987
14000	0.000779	0.000605	No Reduct	No Reduct	0.001027	0.001027	0.001111	0.000862	No Reduct	No Reduct	0.001465	0.001465	0.001109	0.000861	No Reduct	No Reduct	0.001463	0.001463	0.001108
15000	0.00013	0.000101	No Reduct	No Reduct	0.000171	0.000171	0.000222	0.000173	No Reduct	No Reduct	0.000293	0.000293	0.000222	0.000172	No Reduct	No Reduct	0.000293	0.000293	0.000222

No Reduct	No Reduct	No Reduct	0.008265	0.008265	0.009415	No Reduct	No Reduct	No Reduct	0.008252	0.008252	0.009401	No Reduct	No Reduct	No Reduct	0.00824	0.00824	0.009387	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.005126	0.005126	0.005829	No Reduct	No Reduct	No Reduct	0.005119	0.005119	0.00582	No Reduct	No Reduct	No Reduct	0.005111	0.005111	0.005811	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.002339	0.002339	0.002654	No Reduct	No Reduct	No Reduct	0.002335	0.002335	0.00265	No Reduct	No Reduct	No Reduct	0.002332	0.002332	0.002646	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.00347	0.00347	0.003933	No Reduct	No Reduct	No Reduct	0.003465	0.003465	0.003927	No Reduct	No Reduct	No Reduct	0.003459	0.003459	0.003921	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.003103	0.003103	0.003512	No Reduct	No Reduct	No Reduct	0.003098	0.003098	0.003507	No Reduct	No Reduct	No Reduct	0.003094	0.003094	0.003502	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.003118	0.003118	0.003424	No Reduct	No Reduct	No Reduct	0.003113	0.003113	0.003419	No Reduct	No Reduct	No Reduct	0.003108	0.003108	0.003414	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.004129	0.004129	0.004531	No Reduct	No Reduct	No Reduct	0.004123	0.004123	0.004524	No Reduct	No Reduct	No Reduct	0.004117	0.004117	0.004518	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.003629	0.003629	0.003981	No Reduct	No Reduct	No Reduct	0.003624	0.003624	0.003975	No Reduct	No Reduct	No Reduct	0.003618	0.003618	0.003969	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.001009	0.001009	0.001106	No Reduct	No Reduct	No Reduct	0.001007	0.001007	0.001104	No Reduct	No Reduct	No Reduct	0.001006	0.001006	0.001103	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.000202	0.000202	0.000221	No Reduct	No Reduct	No Reduct	0.000202	0.000202	0.000221	No Reduct	No Reduct	No Reduct	0.000201	0.000201	0.000221	No Reduct	No Reduct

2017						2018						2019						20
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
0.007157	No Reduct	No Reduct	0.011968	0.011968	0.009415	0.007147	No Reduct	No Reduct	0.01195	0.01195	0.009401	0.007136	No Reduct	No Reduct	0.011932	0.011932	0.009387	0.007125	No Reduct
0.004436	No Reduct	No Reduct	0.007423	0.007423	0.005829	0.004429	No Reduct	No Reduct	0.007412	0.007412	0.00582	0.004422	No Reduct	No Reduct	0.0074	0.0074	0.005811	0.004416	No Reduct
0.002022	No Reduct	No Reduct	0.003386	0.003386	0.002654	0.002019	No Reduct	No Reduct	0.003381	0.003381	0.00265	0.002016	No Reduct	No Reduct	0.003376	0.003376	0.002646	0.002013	No Reduct
0.002998	No Reduct	No Reduct	0.005024	0.005024	0.003933	0.002994	No Reduct	No Reduct	0.005017	0.005017	0.003927	0.002989	No Reduct	No Reduct	0.005009	0.005009	0.003921	0.002985	No Reduct
0.00268	No Reduct	No Reduct	0.004493	0.004493	0.003512	0.002676	No Reduct	No Reduct	0.004486	0.004486	0.003507	0.002672	No Reduct	No Reduct	0.004479	0.004479	0.003502	0.002668	No Reduct
0.002659	No Reduct	No Reduct	0.004515	0.004515	0.003424	0.002655	No Reduct	No Reduct	0.004508	0.004508	0.003419	0.002651	No Reduct	No Reduct	0.004501	0.004501	0.003414	0.002647	No Reduct
0.003521	No Reduct	No Reduct	0.005979	0.005979	0.004531	0.003516	No Reduct	No Reduct	0.00597	0.00597	0.004524	0.00351	No Reduct	No Reduct	0.005961	0.005961	0.004518	0.003505	No Reduct
0.003094	No Reduct	No Reduct	0.005255	0.005255	0.003981	0.003089	No Reduct	No Reduct	0.005247	0.005247	0.003975	0.003085	No Reduct	No Reduct	0.005239	0.005239	0.003969	0.00308	No Reduct
0.00086	No Reduct	No Reduct	0.001461	0.001461	0.001106	0.000859	No Reduct	No Reduct	0.001459	0.001459	0.001104	0.000857	No Reduct	No Reduct	0.001457	0.001457	0.001103	0.000856	No Reduct
0.000172	No Reduct	No Reduct	0.000292	0.000292	0.000221	0.000172	No Reduct	No Reduct	0.000292	0.000292	0.000221	0.000172	No Reduct	No Reduct	0.000291	0.000291	0.000221	0.000171	No Reduct

No Reduct	0.008228	0.008228	0.009373	No Reduct	No Reduct	No Reduct	0.008215	0.008215	0.009359	No Reduct	No Reduct	No Reduct	0.008203	0.008203	0.009345	No Reduct	No Reduct	No Reduct	0.008191
No Reduct	0.005103	0.005103	0.005803	No Reduct	No Reduct	No Reduct	0.005095	0.005095	0.005794	No Reduct	No Reduct	No Reduct	0.005088	0.005088	0.005785	No Reduct	No Reduct	No Reduct	0.00508
No Reduct	0.002328	0.002328	0.002642	No Reduct	No Reduct	No Reduct	0.002325	0.002325	0.002638	No Reduct	No Reduct	No Reduct	0.002321	0.002321	0.002634	No Reduct	No Reduct	No Reduct	0.002318
No Reduct	0.003454	0.003454	0.003915	No Reduct	No Reduct	No Reduct	0.003449	0.003449	0.003909	No Reduct	No Reduct	No Reduct	0.003444	0.003444	0.003904	No Reduct	No Reduct	No Reduct	0.003439
No Reduct	0.003089	0.003089	0.003497	No Reduct	No Reduct	No Reduct	0.003084	0.003084	0.003491	No Reduct	No Reduct	No Reduct	0.00308	0.00308	0.003486	No Reduct	No Reduct	No Reduct	0.003075
No Reduct	0.003104	0.003104	0.003409	No Reduct	No Reduct	No Reduct	0.003099	0.003099	0.003403	No Reduct	No Reduct	No Reduct	0.003094	0.003094	0.003398	No Reduct	No Reduct	No Reduct	0.00309
No Reduct	0.00411	0.00411	0.004511	No Reduct	No Reduct	No Reduct	0.004104	0.004104	0.004504	No Reduct	No Reduct	No Reduct	0.004098	0.004098	0.004497	No Reduct	No Reduct	No Reduct	0.004092
No Reduct	0.003613	0.003613	0.003963	No Reduct	No Reduct	No Reduct	0.003607	0.003607	0.003957	No Reduct	No Reduct	No Reduct	0.003602	0.003602	0.003951	No Reduct	No Reduct	No Reduct	0.003597
No Reduct	0.001004	0.001004	0.001101	No Reduct	No Reduct	No Reduct	0.001003	0.001003	0.0011	No Reduct	No Reduct	No Reduct	0.001001	0.001001	0.001098	No Reduct	No Reduct	No Reduct	0.001
No Reduct	0.000201	0.000201	0.00022	No Reduct	No Reduct	No Reduct	0.000201	0.000201	0.00022	No Reduct	No Reduct	No Reduct	0.0002	0.0002	0.00022	No Reduct	No Reduct	No Reduct	0.0002

20						2021						2022						2023	
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	0.011914	0.011914	0.009373	0.007114	No Reduct	No Reduct	0.011896	0.011896	0.009359	0.007104	No Reduct	No Reduct	0.011878	0.011878	0.009345	0.007093	No Reduct	No Reduct	0.01186
No Reduct	0.007389	0.007389	0.005803	0.004409	No Reduct	No Reduct	0.007378	0.007378	0.005794	0.004403	No Reduct	No Reduct	0.007367	0.007367	0.005785	0.004396	No Reduct	No Reduct	0.007356
No Reduct	0.003371	0.003371	0.002642	0.00201	No Reduct	No Reduct	0.003366	0.003366	0.002638	0.002007	No Reduct	No Reduct	0.003361	0.003361	0.002634	0.002004	No Reduct	No Reduct	0.003356
No Reduct	0.005002	0.005002	0.003915	0.00298	No Reduct	No Reduct	0.004994	0.004994	0.003909	0.002976	No Reduct	No Reduct	0.004987	0.004987	0.003904	0.002971	No Reduct	No Reduct	0.004979
No Reduct	0.004473	0.004473	0.003497	0.002664	No Reduct	No Reduct	0.004466	0.004466	0.003491	0.00266	No Reduct	No Reduct	0.004459	0.004459	0.003486	0.002656	No Reduct	No Reduct	0.004453
No Reduct	0.004494	0.004494	0.003409	0.002643	No Reduct	No Reduct	0.004488	0.004488	0.003403	0.00264	No Reduct	No Reduct	0.004481	0.004481	0.003398	0.002636	No Reduct	No Reduct	0.004474
No Reduct	0.005952	0.005952	0.004511	0.0035	No Reduct	No Reduct	0.005943	0.005943	0.004504	0.003495	No Reduct	No Reduct	0.005934	0.005934	0.004497	0.003489	No Reduct	No Reduct	0.005925
No Reduct	0.005231	0.005231	0.003963	0.003075	No Reduct	No Reduct	0.005223	0.005223	0.003957	0.003071	No Reduct	No Reduct	0.005216	0.005216	0.003951	0.003066	No Reduct	No Reduct	0.005208
No Reduct	0.001454	0.001454	0.001101	0.000855	No Reduct	No Reduct	0.001452	0.001452	0.0011	0.000854	No Reduct	No Reduct	0.00145	0.00145	0.001098	0.000852	No Reduct	No Reduct	0.001448
No Reduct	0.000291	0.000291	0.00022	0.000171	No Reduct	No Reduct	0.000291	0.000291	0.00022	0.000171	No Reduct	No Reduct	0.00029	0.00029	0.00022	0.000171	No Reduct	No Reduct	0.00029

0.008191	0.009541	No Reduct	No Reduct	No Reduct	0.008362	0.008362	0.009526	No Reduct	No Reduct	No Reduct	0.00835	0.00835	0.009512	No Reduct	No Reduct	No Reduct	0.008337	0.008337	0.009498
0.00508	0.005777	No Reduct	No Reduct	No Reduct	0.005073	0.005073	0.005873	No Reduct	No Reduct	No Reduct	0.005157	0.005157	0.005864	No Reduct	No Reduct	No Reduct	0.00515	0.00515	0.005855
0.002318	0.00263	No Reduct	No Reduct	No Reduct	0.002314	0.002314	0.002627	No Reduct	No Reduct	No Reduct	0.002311	0.002311	0.002623	No Reduct	No Reduct	No Reduct	0.002307	0.002307	0.002619
0.003439	0.003898	No Reduct	No Reduct	No Reduct	0.003433	0.003433	0.003892	No Reduct	No Reduct	No Reduct	0.003428	0.003428	0.003886	No Reduct	No Reduct	No Reduct	0.003423	0.003423	0.003985
0.003075	0.003481	No Reduct	No Reduct	No Reduct	0.00307	0.00307	0.003476	No Reduct	No Reduct	No Reduct	0.003066	0.003066	0.003471	No Reduct	No Reduct	No Reduct	0.003061	0.003061	0.003465
0.00309	0.003393	No Reduct	No Reduct	No Reduct	0.003085	0.003085	0.003388	No Reduct	No Reduct	No Reduct	0.003081	0.003081	0.003383	No Reduct	No Reduct	No Reduct	0.003076	0.003076	0.003378
0.004092	0.004491	No Reduct	No Reduct	No Reduct	0.004086	0.004086	0.004484	No Reduct	No Reduct	No Reduct	0.00408	0.00408	0.004477	No Reduct	No Reduct	No Reduct	0.004074	0.004074	0.004471
0.003597	0.003945	No Reduct	No Reduct	No Reduct	0.003591	0.003591	0.003939	No Reduct	No Reduct	No Reduct	0.003586	0.003586	0.004042	No Reduct	No Reduct	No Reduct	0.00368	0.00368	0.004036
0.001	0.001096	No Reduct	No Reduct	No Reduct	0.000998	0.000998	0.001095	No Reduct	No Reduct	No Reduct	0.000997	0.000997	0.001093	No Reduct	No Reduct	No Reduct	0.000995	0.000995	0.001091
0.0002	0.000219	No Reduct	No Reduct	No Reduct	0.0002	0.0002	0.000219	No Reduct	No Reduct	No Reduct	0.0002	0.0002	0.000219	No Reduct	No Reduct	No Reduct	0.000199	0.000199	0.000218

2024						2025						2026						
PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
0.01186	0.009541	0.007242	No Reduct	No Reduct	0.012109	0.012109	0.009526	0.007231	No Reduct	No Reduct	0.012091	0.012091	0.009512	0.00722	No Reduct	No Reduct	0.012073	0.012073	0.009498
0.007356	0.005777	0.004389	No Reduct	No Reduct	0.007345	0.007345	0.005873	0.004463	No Reduct	No Reduct	0.007468	0.007468	0.005864	0.004456	No Reduct	No Reduct	0.007457	0.007457	0.005855
0.003356	0.00263	0.002001	No Reduct	No Reduct	0.003351	0.003351	0.002627	0.001998	No Reduct	No Reduct	0.003346	0.003346	0.002623	0.001995	No Reduct	No Reduct	0.003341	0.003341	0.002619
0.004979	0.003898	0.002967	No Reduct	No Reduct	0.004972	0.004972	0.003892	0.002963	No Reduct	No Reduct	0.004964	0.004964	0.003886	0.002958	No Reduct	No Reduct	0.004957	0.004957	0.003985
0.004453	0.003481	0.002652	No Reduct	No Reduct	0.004446	0.004446	0.003476	0.002648	No Reduct	No Reduct	0.004439	0.004439	0.003471	0.002644	No Reduct	No Reduct	0.004433	0.004433	0.003465
0.004474	0.003393	0.002632	No Reduct	No Reduct	0.004467	0.004467	0.003388	0.002628	No Reduct	No Reduct	0.004461	0.004461	0.003383	0.002624	No Reduct	No Reduct	0.004454	0.004454	0.003378
0.005925	0.004491	0.003484	No Reduct	No Reduct	0.005916	0.005916	0.004484	0.003479	No Reduct	No Reduct	0.005908	0.005908	0.004477	0.003474	No Reduct	No Reduct	0.005899	0.005899	0.004471
0.005208	0.003945	0.003062	No Reduct	No Reduct	0.0052	0.0052	0.003939	0.003057	No Reduct	No Reduct	0.005192	0.005192	0.004042	0.003137	No Reduct	No Reduct	0.005329	0.005329	0.004036
0.001448	0.001096	0.000851	No Reduct	No Reduct	0.001446	0.001446	0.001095	0.00085	No Reduct	No Reduct	0.001444	0.001444	0.001093	0.000848	No Reduct	No Reduct	0.001441	0.001441	0.001091
0.00029	0.000219	0.00017	No Reduct	No Reduct	0.000289	0.000289	0.000219	0.00017	No Reduct	No Reduct	0.000289	0.000289	0.000219	0.00017	No Reduct	No Reduct	0.000288	0.000288	0.000218

No Reduct	No Reduct	No Reduct	0.008325	0.008325	0.009484	No Reduct	No Reduct	No Reduct	0.008313	0.008313	0.00947	No Reduct	No Reduct	No Reduct	0.0083	0.0083	0.009456	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.005142	0.005142	0.005847	No Reduct	No Reduct	No Reduct	0.005134	0.005134	0.005838	No Reduct	No Reduct	No Reduct	0.005127	0.005127	0.005829	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.002304	0.002304	0.002615	No Reduct	No Reduct	No Reduct	0.0023	0.0023	0.002611	No Reduct	No Reduct	No Reduct	0.002297	0.002297	0.002607	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.003511	0.003511	0.003979	No Reduct	No Reduct	No Reduct	0.003505	0.003505	0.003973	No Reduct	No Reduct	No Reduct	0.0035	0.0035	0.003968	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.003057	0.003057	0.00346	No Reduct	No Reduct	No Reduct	0.003052	0.003052	0.003455	No Reduct	No Reduct	No Reduct	0.003048	0.003048	0.00345	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.003071	0.003071	0.003373	No Reduct	No Reduct	No Reduct	0.003067	0.003067	0.003368	No Reduct	No Reduct	No Reduct	0.003062	0.003062	0.003363	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.004068	0.004068	0.004464	No Reduct	No Reduct	No Reduct	0.004062	0.004062	0.004457	No Reduct	No Reduct	No Reduct	0.004056	0.004056	0.004451	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.003675	0.003675	0.00403	No Reduct	No Reduct	No Reduct	0.003669	0.003669	0.004024	No Reduct	No Reduct	No Reduct	0.003664	0.003664	0.004018	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.000994	0.000994	0.00109	No Reduct	No Reduct	No Reduct	0.000992	0.000992	0.001088	No Reduct	No Reduct	No Reduct	0.000991	0.000991	0.001086	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	0.000199	0.000199	0.000218	No Reduct	No Reduct	No Reduct	0.000199	0.000199	0.000218	No Reduct	No Reduct	No Reduct	0.000198	0.000198	0.000217	No Reduct	No Reduct

2027						2028						2029						20
ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
0.007209	No Reduct	No Reduct	0.012055	0.012055	0.009484	0.007199	No Reduct	No Reduct	0.012037	0.012037	0.00947	0.007188	No Reduct	No Reduct	0.012019	0.012019	0.009456	0.007177	No Reduct
0.004449	No Reduct	No Reduct	0.007445	0.007445	0.005847	0.004443	No Reduct	No Reduct	0.007434	0.007434	0.005838	0.004436	No Reduct	No Reduct	0.007423	0.007423	0.005829	0.00443	No Reduct
0.001992	No Reduct	No Reduct	0.003336	0.003336	0.002615	0.001989	No Reduct	No Reduct	0.003331	0.003331	0.002611	0.001986	No Reduct	No Reduct	0.003326	0.003326	0.002607	0.001983	No Reduct
0.003034	No Reduct	No Reduct	0.005083	0.005083	0.003979	0.003029	No Reduct	No Reduct	0.005076	0.005076	0.003973	0.003025	No Reduct	No Reduct	0.005068	0.005068	0.003968	0.00302	No Reduct
0.00264	No Reduct	No Reduct	0.004426	0.004426	0.00346	0.002636	No Reduct	No Reduct	0.00442	0.00442	0.003455	0.002632	No Reduct	No Reduct	0.004413	0.004413	0.00345	0.002628	No Reduct
0.00262	No Reduct	No Reduct	0.004447	0.004447	0.003373	0.002616	No Reduct	No Reduct	0.004441	0.004441	0.003368	0.002612	No Reduct	No Reduct	0.004434	0.004434	0.003363	0.002608	No Reduct
0.003469	No Reduct	No Reduct	0.00589	0.00589	0.004464	0.003463	No Reduct	No Reduct	0.005881	0.005881	0.004457	0.003458	No Reduct	No Reduct	0.005873	0.005873	0.004451	0.003453	No Reduct
0.003133	No Reduct	No Reduct	0.005321	0.005321	0.00403	0.003128	No Reduct	No Reduct	0.005313	0.005313	0.004024	0.003123	No Reduct	No Reduct	0.005305	0.005305	0.004018	0.003119	No Reduct
0.000847	No Reduct	No Reduct	0.001439	0.001439	0.00109	0.000846	No Reduct	No Reduct	0.001437	0.001437	0.001088	0.000845	No Reduct	No Reduct	0.001435	0.001435	0.001086	0.000843	No Reduct
0.00017	No Reduct	No Reduct	0.000288	0.000288	0.000218	0.000169	No Reduct	No Reduct	0.000288	0.000288	0.000218	0.000169	No Reduct	No Reduct	0.000287	0.000287	0.000217	0.000169	No Reduct

No Reduct	0.008288	0.008288	0.009442	No Reduct	No Reduct	No Reduct	0.008276	0.008276	0.009428	No Reduct	No Reduct	No Reduct	0.008264	0.008264	0.009416	No Reduct	No Reduct	No Reduct	0.008253
No Reduct	0.005119	0.005119	0.005821	No Reduct	No Reduct	No Reduct	0.005111	0.005111	0.005812	No Reduct	No Reduct	No Reduct	0.005104	0.005104	0.005805	No Reduct	No Reduct	No Reduct	0.005098
No Reduct	0.002294	0.002294	0.002603	No Reduct	No Reduct	No Reduct	0.00229	0.00229	0.002599	No Reduct	No Reduct	No Reduct	0.002287	0.002287	0.0027	No Reduct	No Reduct	No Reduct	0.002375
No Reduct	0.003495	0.003495	0.003962	No Reduct	No Reduct	No Reduct	0.00349	0.00349	0.003956	No Reduct	No Reduct	No Reduct	0.003485	0.003485	0.003951	No Reduct	No Reduct	No Reduct	0.00348
No Reduct	0.003043	0.003043	0.003445	No Reduct	No Reduct	No Reduct	0.003039	0.003039	0.00344	No Reduct	No Reduct	No Reduct	0.003034	0.003034	0.003436	No Reduct	No Reduct	No Reduct	0.00303
No Reduct	0.003058	0.003058	0.003466	No Reduct	No Reduct	No Reduct	0.003152	0.003152	0.003461	No Reduct	No Reduct	No Reduct	0.003147	0.003147	0.003457	No Reduct	No Reduct	No Reduct	0.003143
No Reduct	0.00405	0.00405	0.004444	No Reduct	No Reduct	No Reduct	0.004044	0.004044	0.004438	No Reduct	No Reduct	No Reduct	0.004038	0.004038	0.00454	No Reduct	No Reduct	No Reduct	0.004131
No Reduct	0.003658	0.003658	0.004013	No Reduct	No Reduct	No Reduct	0.003653	0.003653	0.004007	No Reduct	No Reduct	No Reduct	0.003647	0.003647	0.004002	No Reduct	No Reduct	No Reduct	0.003643
No Reduct	0.00099	0.00099	0.001085	No Reduct	No Reduct	No Reduct	0.000988	0.000988	0.001083	No Reduct	No Reduct	No Reduct	0.000987	0.000987	0.001082	No Reduct	No Reduct	No Reduct	0.000985
No Reduct	0.000198	0.000198	0.000217	No Reduct	No Reduct	No Reduct	0.000198	0.000198	0.000217	No Reduct	No Reduct	No Reduct	0.000197	0.000197	0.000216	No Reduct	No Reduct	No Reduct	0.000197

30	2031						2032						2033					
SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct
No Reduct	0.012001	0.012001	0.009442	0.007167	No Reduct	No Reduct	0.011983	0.011983	0.009428	0.007156	No Reduct	No Reduct	0.011966	0.011966	0.009416	0.007147	No Reduct	No Reduct	0.011951
No Reduct	0.007412	0.007412	0.005821	0.004423	No Reduct	No Reduct	0.007401	0.007401	0.005812	0.004416	No Reduct	No Reduct	0.00739	0.00739	0.005805	0.004411	No Reduct	No Reduct	0.007381
No Reduct	0.003321	0.003321	0.002603	0.00198	No Reduct	No Reduct	0.003316	0.003316	0.002599	0.001977	No Reduct	No Reduct	0.003311	0.003311	0.0027	0.002054	No Reduct	No Reduct	0.00344
No Reduct	0.005061	0.005061	0.003962	0.003016	No Reduct	No Reduct	0.005053	0.005053	0.003956	0.003011	No Reduct	No Reduct	0.005046	0.005046	0.003951	0.003008	No Reduct	No Reduct	0.00504
No Reduct	0.004407	0.004407	0.003445	0.002624	No Reduct	No Reduct	0.0044	0.0044	0.00344	0.002621	No Reduct	No Reduct	0.004394	0.004394	0.003436	0.002617	No Reduct	No Reduct	0.004388
No Reduct	0.004428	0.004428	0.003466	0.002688	No Reduct	No Reduct	0.004564	0.004564	0.003461	0.002684	No Reduct	No Reduct	0.004557	0.004557	0.003457	0.002681	No Reduct	No Reduct	0.004551
No Reduct	0.005864	0.005864	0.004444	0.003448	No Reduct	No Reduct	0.005855	0.005855	0.004438	0.003443	No Reduct	No Reduct	0.005847	0.005847	0.00454	0.003523	No Reduct	No Reduct	0.005982
No Reduct	0.005297	0.005297	0.004013	0.003114	No Reduct	No Reduct	0.005289	0.005289	0.004007	0.00311	No Reduct	No Reduct	0.005281	0.005281	0.004002	0.003106	No Reduct	No Reduct	0.005275
No Reduct	0.001433	0.001433	0.001085	0.000842	No Reduct	No Reduct	0.001431	0.001431	0.001083	0.000841	No Reduct	No Reduct	0.001429	0.001429	0.001082	0.00084	No Reduct	No Reduct	0.001427
No Reduct	0.000287	0.000287	0.000217	0.000169	No Reduct	No Reduct	0.000286	0.000286	0.000217	0.000168	No Reduct	No Reduct	0.000286	0.000286	0.000216	0.000168	No Reduct	No Reduct	0.000286

0.008253	0.009403	No Reduct	No Reduct	No Reduct	0.008241	0.008241	0.009389	No Reduct	No Reduct	No Reduct	0.008229	0.008229
0.005098	0.005797	No Reduct	No Reduct	No Reduct	0.00509	0.00509	0.005788	No Reduct	No Reduct	No Reduct	0.005083	0.005083
0.002375	0.002696	No Reduct	No Reduct	No Reduct	0.002372	0.002372	0.002692	No Reduct	No Reduct	No Reduct	0.002368	0.002368
0.00348	0.003945	No Reduct	No Reduct	No Reduct	0.003475	0.003475	0.003939	No Reduct	No Reduct	No Reduct	0.00347	0.00347
0.00303	0.003431	No Reduct	No Reduct	No Reduct	0.003026	0.003026	0.003425	No Reduct	No Reduct	No Reduct	0.003022	0.003022
0.003143	0.003452	No Reduct	No Reduct	No Reduct	0.003139	0.003139	0.003447	No Reduct	No Reduct	No Reduct	0.003134	0.003134
0.004131	0.004534	No Reduct	No Reduct	No Reduct	0.004125	0.004125	0.004527	No Reduct	No Reduct	No Reduct	0.004119	0.004119
0.003643	0.003996	No Reduct	No Reduct	No Reduct	0.003638	0.003638	0.00399	No Reduct	No Reduct	No Reduct	0.003632	0.003632
0.000985	0.00108	No Reduct	No Reduct	No Reduct	0.000984	0.000984	0.001079	No Reduct	No Reduct	No Reduct	0.000982	0.000982
0.000197	0.000216	No Reduct	No Reduct	No Reduct	0.000197	0.000197	0.000216	No Reduct	No Reduct	No Reduct	0.000197	0.000197

2034						2035						
PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON	NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
0.011951	0.009403	0.007137	No Reduct	No Reduct	0.011933	0.011933	0.009389	0.007126	No Reduct	No Reduct	0.011916	0.011916
0.007381	0.005797	0.004405	No Reduct	No Reduct	0.007371	0.007371	0.005788	0.004398	No Reduct	No Reduct	0.00736	0.00736
0.00344	0.002696	0.002051	No Reduct	No Reduct	0.003435	0.003435	0.002692	0.002048	No Reduct	No Reduct	0.00343	0.00343
0.00504	0.003945	0.003003	No Reduct	No Reduct	0.005032	0.005032	0.003939	0.002999	No Reduct	No Reduct	0.005025	0.005025
0.004388	0.003431	0.002613	No Reduct	No Reduct	0.004382	0.004382	0.003425	0.00261	No Reduct	No Reduct	0.004375	0.004375
0.004551	0.003452	0.002677	No Reduct	No Reduct	0.004545	0.004545	0.003447	0.002673	No Reduct	No Reduct	0.004538	0.004538
0.005982	0.004534	0.003517	No Reduct	No Reduct	0.005973	0.005973	0.004527	0.003512	No Reduct	No Reduct	0.005964	0.005964
0.005275	0.003996	0.003101	No Reduct	No Reduct	0.005267	0.005267	0.00399	0.003097	No Reduct	No Reduct	0.005259	0.005259
0.001427	0.00108	0.000839	No Reduct	No Reduct	0.001425	0.001425	0.001079	0.000837	No Reduct	No Reduct	0.001423	0.001423
0.000286	0.000216	0.000168	No Reduct	No Reduct	0.000285	0.000285	0.000216	0.000168	No Reduct	No Reduct	0.000285	0.000285

Final % Reduction

		NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
	6000	0.86%	No Reduct	No Reduct	No Reduct	0.75%	0.75%
	7000	0.55%	No Reduct	No Reduct	No Reduct	0.48%	0.48%
2012	8000	0.29%	No Reduct	No Reduct	No Reduct	0.25%	0.25%
	9000	0.41%	No Reduct	No Reduct	No Reduct	0.36%	0.36%
	10000	0.26%	No Reduct	No Reduct	No Reduct	0.23%	0.23%
	11000	0.32%	No Reduct	No Reduct	No Reduct	0.29%	0.29%
	12000	0.35%	No Reduct	No Reduct	No Reduct	0.32%	0.32%
	13000	0.26%	No Reduct	No Reduct	No Reduct	0.24%	0.24%
	14000	0.08%	No Reduct	No Reduct	No Reduct	0.07%	0.07%
	15000	0.01%	No Reduct	No Reduct	No Reduct	0.01%	0.01%
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
	6000	0.95%	No Reduct	No Reduct	No Reduct	0.83%	0.83%
	7000	0.59%	No Reduct	No Reduct	No Reduct	0.51%	0.51%
2015	8000	0.27%	No Reduct	No Reduct	No Reduct	0.23%	0.23%
	9000	0.39%	No Reduct	No Reduct	No Reduct	0.35%	0.35%
	10000	0.35%	No Reduct	No Reduct	No Reduct	0.31%	0.31%
	11000	0.34%	No Reduct	No Reduct	No Reduct	0.31%	0.31%
	12000	0.45%	No Reduct	No Reduct	No Reduct	0.41%	0.41%
	13000	0.40%	No Reduct	No Reduct	No Reduct	0.36%	0.36%
	14000	0.11%	No Reduct	No Reduct	No Reduct	0.10%	0.10%
	15000	0.02%	No Reduct	No Reduct	No Reduct	0.02%	0.02%
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
	6000	0.94%	No Reduct	No Reduct	No Reduct	0.83%	0.83%
	7000	0.58%	No Reduct	No Reduct	No Reduct	0.51%	0.51%
2016	8000	0.27%	No Reduct	No Reduct	No Reduct	0.23%	0.23%
	9000	0.39%	No Reduct	No Reduct	No Reduct	0.35%	0.35%
	10000	0.35%	No Reduct	No Reduct	No Reduct	0.31%	0.31%
	11000	0.34%	No Reduct	No Reduct	No Reduct	0.31%	0.31%
	12000	0.45%	No Reduct	No Reduct	No Reduct	0.41%	0.41%
	13000	0.40%	No Reduct	No Reduct	No Reduct	0.36%	0.36%
	14000	0.11%	No Reduct	No Reduct	No Reduct	0.10%	0.10%
	15000	0.02%	No Reduct	No Reduct	No Reduct	0.02%	0.02%
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction

Drilling Emissions in Lbs/Well Drilled

CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB
2012	001000	Construction	C.1 Well Drilling	889.3949598	52.74499254
2012	002000	Construction	C.1 Well Drilling	1165.785878	68.6565032
2012	003000	Construction	C.1 Well Drilling	1442.176795	84.56801385
2012	004000	Construction	C.1 Well Drilling	1718.567713	100.4795245
2012	005000	Construction	C.1 Well Drilling	2271.349549	132.3025458
2012	006000	Construction	C.1 Well Drilling	5143.498427	247.3684469
2012	007000	Construction	C.1 Well Drilling	6160.153671	295.8400441
2012	008000	Construction	C.1 Well Drilling	7685.136537	368.54744
2012	009000	Construction	C.1 Well Drilling	9210.119402	441.2548359
2012	010000	Construction	C.1 Well Drilling	11751.75751	562.433829
2012	011000	Construction	C.1 Well Drilling	17376.84905	812.3437041
2012	012000	Construction	C.1 Well Drilling	21706.00576	1014.177015
2012	013000	Construction	C.1 Well Drilling	26653.61343	1244.843656
2012	014000	Construction	C.1 Well Drilling	32838.12301	1533.176957
2012	015000	Construction	C.1 Well Drilling	40259.53452	1879.176919
2015	001000	Construction	C.1 Well Drilling	802.5835351	48.79234205
2015	002000	Construction	C.1 Well Drilling	1051.798768	63.53247208
2015	003000	Construction	C.1 Well Drilling	1301.014	78.27260212
2015	004000	Construction	C.1 Well Drilling	1550.229233	93.01273216
2015	005000	Construction	C.1 Well Drilling	2048.659698	122.4929922
2015	006000	Construction	C.1 Well Drilling	5123.472228	266.380754
2015	007000	Construction	C.1 Well Drilling	6137.179107	318.7425144
2015	008000	Construction	C.1 Well Drilling	7657.739424	397.285155
2015	009000	Construction	C.1 Well Drilling	9178.299741	475.8277956
2015	010000	Construction	C.1 Well Drilling	11712.56694	606.7321966
2015	011000	Construction	C.1 Well Drilling	17402.30073	885.5183604
2015	012000	Construction	C.1 Well Drilling	21739.14145	1105.754963
2015	013000	Construction	C.1 Well Drilling	26695.53085	1357.453936
2015	014000	Construction	C.1 Well Drilling	32891.01759	1672.077654
2015	015000	Construction	C.1 Well Drilling	40325.60169	2049.626115
2016	001000	Construction	C.1 Well Drilling	763.3389208	46.54759315
2016	002000	Construction	C.1 Well Drilling	1000.28455	60.61695792
2016	003000	Construction	C.1 Well Drilling	1237.23018	74.68632269
2016	004000	Construction	C.1 Well Drilling	1474.175809	88.75568746
2016	005000	Construction	C.1 Well Drilling	1948.067068	116.894417
2016	006000	Construction	C.1 Well Drilling	5042.783384	260.999804
2016	007000	Construction	C.1 Well Drilling	6040.839654	312.331865
2016	008000	Construction	C.1 Well Drilling	7537.924059	389.3299566
2016	009000	Construction	C.1 Well Drilling	9035.008464	466.3280481
2016	010000	Construction	C.1 Well Drilling	11530.14914	594.6582007
2016	011000	Construction	C.1 Well Drilling	17169.76603	870.1619411
2016	012000	Construction	C.1 Well Drilling	21449.08203	1086.617552
2016	013000	Construction	C.1 Well Drilling	26339.72888	1333.995392
2016	014000	Construction	C.1 Well Drilling	32453.03745	1643.217693
2016	015000	Construction	C.1 Well Drilling	39789.00774	2014.284454
2017	001000	Construction	C.1 Well Drilling	719.1407087	43.99990232

Amount of Drilling Emissions Reduced in Changing >-750hp Engines to Tier 4i in Lbs/Well Drilled

COLB	SOXLB	PM10LB	PM25LB	CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB	COLB	SOXLB
650.4930445	0.766405804	40.20745903	36.99086231	2012	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	52.13380846	47.96310378	2012	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	64.06015789	58.93534526	2012	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	75.98650732	69.90758673	2012	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	99.83920617	91.85206968	2012	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	182.7774876	168.1552886	2012	006000	Construction	C.1 Well Drilling	44.07540793	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	218.447303	200.9715188	2012	007000	Construction	C.1 Well Drilling	33.72171827	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	271.9520261	250.195864	2012	008000	Construction	C.1 Well Drilling	22.03043759	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	325.4567491	299.4202092	2012	009000	Construction	C.1 Well Drilling	37.92647623	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	414.6312876	381.4607846	2012	010000	Construction	C.1 Well Drilling	30.83549265	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	592.2478825	544.8680519	2012	011000	Construction	C.1 Well Drilling	56.32733322	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	739.2027504	680.0665304	2012	012000	Construction	C.1 Well Drilling	76.03720163	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	907.1511709	834.5790772	2012	013000	Construction	C.1 Well Drilling	69.19469124	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	1117.086697	1027.719761	2012	014000	Construction	C.1 Well Drilling	25.58497086	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	1369.009327	1259.488581	2012	015000	Construction	C.1 Well Drilling	5.229474396	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	36.05112075	33.16703109	2015	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	46.72603737	42.98795438	2015	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	57.40095398	52.80887767	2015	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	68.0758706	62.62980095	2015	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	89.42570384	82.27164753	2015	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	183.9929422	169.2735068	2015	006000	Construction	C.1 Well Drilling	48.43353471	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	219.9862565	202.387356	2015	007000	Construction	C.1 Well Drilling	35.91700327	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	273.9762279	252.0581296	2015	008000	Construction	C.1 Well Drilling	20.40738822	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	327.9661993	301.7289033	2015	009000	Construction	C.1 Well Drilling	36.24352149	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	417.9494849	384.5135261	2015	010000	Construction	C.1 Well Drilling	41.30455376	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	602.454831	554.2584445	2015	011000	Construction	C.1 Well Drilling	59.82457887	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	752.061946	691.8969903	2015	012000	Construction	C.1 Well Drilling	98.90353765	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	923.041506	849.1981855	2015	013000	Construction	C.1 Well Drilling	106.6917605	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	1136.765956	1045.82468	2015	014000	Construction	C.1 Well Drilling	36.52883272	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	1393.235296	1281.776472	2015	015000	Construction	C.1 Well Drilling	8.959902365	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	33.77182493	31.07007894	2016	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	43.76261426	40.26160512	2016	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	53.7534036	49.45313131	2016	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	63.74419293	58.64465749	2016	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	83.72577159	77.02770987	2016	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	178.7846588	164.4818861	2016	006000	Construction	C.1 Well Drilling	47.62273078	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	213.7816992	196.6791633	2016	007000	Construction	C.1 Well Drilling	35.31756942	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	266.2772598	244.975079	2016	008000	Construction	C.1 Well Drilling	20.06784802	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	318.7728203	293.2709947	2016	009000	Construction	C.1 Well Drilling	35.64174168	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	406.2654213	373.7641876	2016	010000	Construction	C.1 Well Drilling	40.62028598	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	587.6133242	540.6042583	2016	011000	Construction	C.1 Well Drilling	58.96571391	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	733.5667911	674.8814478	2016	012000	Construction	C.1 Well Drilling	97.48557348	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	900.3707532	828.3410929	2016	013000	Construction	C.1 Well Drilling	105.1636917	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	1108.875706	1020.165649	2016	014000	Construction	C.1 Well Drilling	36.00609629	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	1359.081649	1250.355117	2016	015000	Construction	C.1 Well Drilling	8.831769645	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	31.39998534	28.88798652	2017	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction

		Wells Drilled Each Year	Amount of Drilling Emissions Reduced in Changing >-750 hp Engines to Tier 4i in tons/year					
PM10LB	PM25LB		CALYEAR	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB
No Reduction	No Reduction	305	2012	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1414	2012	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	930	2012	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	174	2012	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	300	2012	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
1.372813697	1.262988609	69	2012	1.52060157	No Reduction	No Reduction	No Reduction	0.04736207	0.04357311
1.050088813	0.966081716	44	2012	0.7418778	No Reduction	No Reduction	No Reduction	0.02310195	0.0212538
0.685866335	0.630997027	23	2012	0.25335003	No Reduction	No Reduction	No Reduction	0.00788746	0.00725647
1.180569653	1.086124089	33.00	2012	0.62578686	No Reduction	No Reduction	No Reduction	0.0194794	0.01792105
0.95967987	0.882905474	21	2012	0.32377267	No Reduction	No Reduction	No Reduction	0.01007664	0.00927051
1.745507861	1.605867228	25	2012	0.70409167	No Reduction	No Reduction	No Reduction	0.02181885	0.02007334
2.356060894	2.167576028	27	2012	1.02650222	No Reduction	No Reduction	No Reduction	0.03180682	0.02926228
2.143885704	1.972374843	20	2012	0.69194691	No Reduction	No Reduction	No Reduction	0.02143886	0.01972375
0.792661352	0.729248444	6	2012	0.07675491	No Reduction	No Reduction	No Reduction	0.00237798	0.00218775
0.162009334	0.149048588	1	2012	0.00261474	No Reduction	No Reduction	No Reduction	8.1005E-05	7.4524E-05
No Reduction	No Reduction	323	2015	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1575	2015	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1128	2015	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	218	2015	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	363	2015	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
1.524523467	1.402561599	89	2015	2.15529229	No Reduction	No Reduction	No Reduction	0.06784129	0.06241399
1.130545487	1.040101857	55	2015	0.98771759	No Reduction	No Reduction	No Reduction	0.03109	0.0286028
0.642355395	0.590966962	25	2015	0.25509235	No Reduction	No Reduction	No Reduction	0.00802944	0.00738709
1.140823183	1.049557337	37.00	2015	0.67050515	No Reduction	No Reduction	No Reduction	0.02110523	0.01941681
1.300127331	1.196117135	33.00	2015	0.68152514	No Reduction	No Reduction	No Reduction	0.0214521	0.01973593
1.883074934	1.732428936	31	2015	0.92728097	No Reduction	No Reduction	No Reduction	0.02918766	0.02685265
3.113148068	2.864096229	41	2015	2.02752252	No Reduction	No Reduction	No Reduction	0.06381954	0.05871397
3.358294915	3.089631314	36	2015	1.92045169	No Reduction	No Reduction	No Reduction	0.06044931	0.05561336
1.149803818	1.057819513	10	2015	0.18264416	No Reduction	No Reduction	No Reduction	0.00574902	0.0052891
0.282027351	0.259465163	2	2015	0.0089599	No Reduction	No Reduction	No Reduction	0.00028203	0.00025947
No Reduction	No Reduction	323	2016	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1577	2016	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1130	2016	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	218	2016	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	363	2016	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
1.479876258	1.361486167	89	2016	2.11921152	No Reduction	No Reduction	No Reduction	0.06585449	0.06058613
1.097552288	1.009748113	55	2016	0.97123316	No Reduction	No Reduction	No Reduction	0.03018269	0.02776807
0.623675632	0.573781581	25	2016	0.2508481	No Reduction	No Reduction	No Reduction	0.00779595	0.00717227
1.107726994	1.019108842	37	2016	0.65937222	No Reduction	No Reduction	No Reduction	0.02049295	0.01885351
1.262508051	1.161507398	33	2016	0.67023472	No Reduction	No Reduction	No Reduction	0.02083138	0.01916487
1.834834719	1.688047938	31	2016	0.91396857	No Reduction	No Reduction	No Reduction	0.02843994	0.02616474
3.033528144	2.790845899	41	2016	1.99845426	No Reduction	No Reduction	No Reduction	0.06218733	0.05721234
3.27251152	3.010710591	36	2016	1.89294645	No Reduction	No Reduction	No Reduction	0.05890521	0.05419279
1.120463618	1.030826529	10	2016	0.18003048	No Reduction	No Reduction	No Reduction	0.00560232	0.00515413
0.274836564	0.25284964	2	2016	0.00883177	No Reduction	No Reduction	No Reduction	0.00027484	0.00025285
No Reduction	No Reduction	323	2017	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction

VERA Emissions (tons/year)	Wells Drilled Each Year	VERA Emissions (tons/year-well)	VERA Fee Reduction	Year
No Reduction	305			
No Reduction	1414			
No Reduction	930			
No Reduction	174			
No Reduction	300			
1.567963646	69			
0.764979756	44			
0.261237495	23			
0.645266257	33.00			
0.333849311	21			
0.725910514	25			
1.058309044	27			
0.713385769	20			
0.079132897	6			
0.002695742	1			
No Reduction	323	No Reduction	No Reduction	2015
No Reduction	1575	No Reduction	No Reduction	2015
No Reduction	1128	No Reduction	No Reduction	2015
No Reduction	218	No Reduction	No Reduction	2015
No Reduction	363	No Reduction	No Reduction	2015
2.223133589	89	0.024979029	174.2037489	2015
1.018807591	55	0.018523774	129.1848025	2015
0.263121795	25	0.010524872	73.400456	2015
0.691610376	37.00	0.018692172	130.3592099	2015
0.702977238	33.00	0.021302341	148.562523	2015
0.956468634	31	0.030853827	215.1745888	2015
2.091342057	41	0.051008343	355.7321831	2015
1.980900997	36	0.055025028	383.7445431	2015
0.188393183	10	0.018839318	131.3854056	2015
0.00924193	2	0.004620965	32.22660892	2015
No Reduction	323	No Reduction	No Reduction	2016
No Reduction	1577	No Reduction	No Reduction	2016
No Reduction	1130	No Reduction	No Reduction	2016
No Reduction	218	No Reduction	No Reduction	2016
No Reduction	363	No Reduction	No Reduction	2016
2.185066013	89	0.024551304	171.2207907	2016
1.001415847	55	0.018207561	126.9795294	2016
0.258644046	25	0.010345762	72.15134296	2016
0.67986517	37	0.018374734	128.1453973	2016
0.691066101	33	0.020941397	146.0453028	2016
0.942408504	31	0.030400274	212.0115131	2016
2.060641583	41	0.050259551	350.5101074	2016
1.951851659	36	0.054218102	378.1170408	2016
0.1856328	10	0.01856328	129.4603144	2016
0.009106606	2	0.004553303	31.75473585	2016
No Reduction	323	No Reduction	No Reduction	2017

Amount of Construction - Well Drilling Emissions Reduced i				
Year	NOX	ROG	CO	SOX
2015	9.82	0.00	0.00	0.00
2016	9.67	0.00	0.00	0.00
2017	9.57	0.00	0.00	0.00
2018	9.26	0.00	0.00	0.00
2019	7.84	0.00	0.00	0.00
2020	7.71	0.00	0.00	0.00
2021	7.62	0.00	0.00	0.00
2022	7.51	0.00	0.00	0.00
2023	7.44	0.00	0.00	0.00
2024	7.49	0.00	0.00	0.00
2025	7.48	0.00	0.00	0.00
2026	5.37	0.00	0.00	0.00
2027	5.35	0.00	0.00	0.00
2028	5.34	0.00	0.00	0.00
2029	5.34	0.00	0.00	0.00
2030	5.33	0.00	0.00	0.00
2031	5.35	0.00	0.00	0.00
2032	5.34	0.00	0.00	0.00
2033	5.40	0.00	0.00	0.00
2034	5.39	0.00	0.00	0.00
2035	5.39	0.00	0.00	0.00

n Changing ≥ 750 hp Engines to Tier 4i		
PM10	PM25	VERA Fee Reduction Per Well
0.31	0.28	$1,773.97
0.30	0.28	$1,746.40
0.29	0.27	$1,729.29
0.28	0.25	$1,672.32
0.21	0.19	$1,411.92
0.20	0.18	$1,387.50
0.19	0.18	$1,372.06
0.19	0.17	$1,352.20
0.18	0.17	$1,338.19
0.18	0.17	$1,337.09
0.18	0.16	$1,331.84
0.11	0.10	$947.67
0.10	0.10	$942.70
0.10	0.09	$940.81
0.10	0.09	$939.69
0.10	0.09	$938.30
0.10	0.09	$940.57
0.10	0.09	$939.18
0.10	0.09	$944.09
0.10	0.09	$942.70
0.10	0.09	$941.31
	Average:	**$1,231.89**

	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction		2017	002000	Construction	C.1 Well Drilling	942.654357	57.33159172
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction		2017	003000	Construction	C.1 Well Drilling	1166.168005	70.66328112
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction		2017	004000	Construction	C.1 Well Drilling	1389.681653	83.99497053
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction		2017	005000	Construction	C.1 Well Drilling	1836.70895	110.6583493
	6000	0.94%	No Reduct	No Reduct	No Reduct	0.83%	0.83%		2017	006000	Construction	C.1 Well Drilling	4995.849988	257.5406623
	7000	0.58%	No Reduct	No Reduct	No Reduct	0.51%	0.51%		2017	007000	Construction	C.1 Well Drilling	5985.300033	308.2478279
2017	8000	0.27%	No Reduct	No Reduct	No Reduct	0.23%	0.23%		2017	008000	Construction	C.1 Well Drilling	7469.4751	384.3085764
	9000	0.39%	No Reduct	No Reduct	No Reduct	0.35%	0.35%		2017	009000	Construction	C.1 Well Drilling	8953.650168	460.3693248
	10000	0.35%	No Reduct	No Reduct	No Reduct	0.31%	0.31%		2017	010000	Construction	C.1 Well Drilling	11427.27528	587.1372389
	11000	0.34%	No Reduct	No Reduct	No Reduct	0.31%	0.31%		2017	011000	Construction	C.1 Well Drilling	17043.46992	860.972981
	12000	0.45%	No Reduct	No Reduct	No Reduct	0.41%	0.41%		2017	012000	Construction	C.1 Well Drilling	21292.18745	1075.215018
	13000	0.40%	No Reduct	No Reduct	No Reduct	0.36%	0.36%		2017	013000	Construction	C.1 Well Drilling	26147.86464	1320.06306
	14000	0.11%	No Reduct	No Reduct	No Reduct	0.10%	0.10%		2017	014000	Construction	C.1 Well Drilling	32217.46112	1626.123112
	15000	0.02%	No Reduct	No Reduct	No Reduct	0.02%	0.02%		2017	015000	Construction	C.1 Well Drilling	39500.9769	1993.395175
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction		2018	001000	Construction	C.1 Well Drilling	618.2650511	38.07086535
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction		2018	002000	Construction	C.1 Well Drilling	810.1939548	49.62555854
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction		2018	003000	Construction	C.1 Well Drilling	1002.122858	61.18025173
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction		2018	004000	Construction	C.1 Well Drilling	1194.051762	72.73494492
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction		2018	005000	Construction	C.1 Well Drilling	1577.909569	95.84433131
	6000	0.94%	No Reduct	No Reduct	No Reduct	0.83%	0.83%		2018	006000	Construction	C.1 Well Drilling	4823.38249	244.8783498
	7000	0.58%	No Reduct	No Reduct	No Reduct	0.51%	0.51%		2018	007000	Construction	C.1 Well Drilling	5779.56332	293.1726627
2018	8000	0.27%	No Reduct	No Reduct	No Reduct	0.23%	0.23%		2018	008000	Construction	C.1 Well Drilling	7213.834565	365.6141319
	9000	0.39%	No Reduct	No Reduct	No Reduct	0.35%	0.35%		2018	009000	Construction	C.1 Well Drilling	8648.10581	438.0556011
	10000	0.35%	No Reduct	No Reduct	No Reduct	0.31%	0.31%		2018	010000	Construction	C.1 Well Drilling	11038.55788	558.7913832
	11000	0.34%	No Reduct	No Reduct	No Reduct	0.31%	0.31%		2018	011000	Construction	C.1 Well Drilling	16557.08617	825.6487898
	12000	0.45%	No Reduct	No Reduct	No Reduct	0.41%	0.41%		2018	012000	Construction	C.1 Well Drilling	20685.73813	1031.209291
	13000	0.40%	No Reduct	No Reduct	No Reduct	0.36%	0.36%		2018	013000	Construction	C.1 Well Drilling	25404.19751	1266.135578
	14000	0.11%	No Reduct	No Reduct	No Reduct	0.10%	0.10%		2018	014000	Construction	C.1 Well Drilling	31302.27173	1559.793436
	15000	0.02%	No Reduct	No Reduct	No Reduct	0.02%	0.02%		2018	015000	Construction	C.1 Well Drilling	38379.9608	1912.182867
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction		2019	001000	Construction	C.1 Well Drilling	569.7563561	35.5442175
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction		2019	002000	Construction	C.1 Well Drilling	746.8582133	46.37616294
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction		2019	003000	Construction	C.1 Well Drilling	923.9600705	57.20810837
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction		2019	004000	Construction	C.1 Well Drilling	1101.061928	68.04005381
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction		2019	005000	Construction	C.1 Well Drilling	1455.265642	89.70394468
	6000	0.94%	No Reduct	No Reduct	No Reduct	0.82%	0.82%		2019	006000	Construction	C.1 Well Drilling	4096.004555	186.2976253
	7000	0.58%	No Reduct	No Reduct	No Reduct	0.51%	0.51%		2019	007000	Construction	C.1 Well Drilling	4907.51531	222.9474742
2019	8000	0.27%	No Reduct	No Reduct	No Reduct	0.23%	0.23%		2019	008000	Construction	C.1 Well Drilling	6124.781441	277.9222474
	9000	0.39%	No Reduct	No Reduct	No Reduct	0.35%	0.35%		2019	009000	Construction	C.1 Well Drilling	7342.047572	332.8970206
	10000	0.35%	No Reduct	No Reduct	No Reduct	0.31%	0.31%		2019	010000	Construction	C.1 Well Drilling	9370.824458	424.5216427
	11000	0.34%	No Reduct	No Reduct	No Reduct	0.31%	0.31%		2019	011000	Construction	C.1 Well Drilling	14035.91596	622.1002856
	12000	0.45%	No Reduct	No Reduct	No Reduct	0.41%	0.41%		2019	012000	Construction	C.1 Well Drilling	17535.28226	776.8632618
	13000	0.40%	No Reduct	No Reduct	No Reduct	0.36%	0.36%		2019	013000	Construction	C.1 Well Drilling	21534.55802	953.7352345
	14000	0.11%	No Reduct	No Reduct	No Reduct	0.10%	0.10%		2019	014000	Construction	C.1 Well Drilling	26533.65273	1174.8252
	15000	0.02%	No Reduct	No Reduct	No Reduct	0.02%	0.02%		2019	015000	Construction	C.1 Well Drilling	32532.56637	1440.133159
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction		2020	001000	Construction	C.1 Well Drilling	473.7173815	31.85752448
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction		2020	002000	Construction	C.1 Well Drilling	619.9858554	41.56484144
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction		2020	003000	Construction	C.1 Well Drilling	766.2543294	51.27215841
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction		2020	004000	Construction	C.1 Well Drilling	912.5228033	60.97947537
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction		2020	005000	Construction	C.1 Well Drilling	1205.059751	80.39410929
	6000	0.94%	No Reduct	No Reduct	No Reduct	0.82%	0.82%		2020	006000	Construction	C.1 Well Drilling	4023.834188	181.5986855

855.7315035	1.008083983	40.71607697	37.45879081	2017	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	50.0321686	46.02959511	2017	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	59.34826023	54.60039941	2017	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	77.98044349	71.74200801	2017	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	174.9119482	160.9189923	2017	006000	Construction	C.1 Well Drilling	47.1083076	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	209.2039957	192.4676761	2017	007000	Construction	C.1 Well Drilling	34.94005274	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	260.6420671	239.7907017	2017	008000	Construction	C.1 Well Drilling	19.85561121	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	312.0801384	287.1137273	2017	009000	Construction	C.1 Well Drilling	35.26749451	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	397.8102572	365.9854367	2017	010000	Construction	C.1 Well Drilling	40.19711389	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	577.269724	531.0881461	2017	011000	Construction	C.1 Well Drilling	58.44365028	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	720.7242274	663.0662892	2017	012000	Construction	C.1 Well Drilling	96.62645639	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	884.6722312	813.8984527	2017	013000	Construction	C.1 Well Drilling	104.2401151	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	1089.607236	1002.438657	2017	014000	Construction	C.1 Well Drilling	35.6907876	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	1335.529242	1228.686903	2017	015000	Construction	C.1 Well Drilling	8.754605721	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	25.96951865	23.89195716	2018	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	33.66149016	30.96857094	2018	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	41.35346166	38.04518473	2018	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	49.04543317	45.12179851	2018	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	64.42937617	59.27502608	2018	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	163.1964128	150.1406998	2018	006000	Construction	C.1 Well Drilling	45.41349596	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	195.2569746	179.6364166	2018	007000	Construction	C.1 Well Drilling	33.68819766	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	243.3478172	223.8799918	2018	008000	Construction	C.1 Well Drilling	19.14716478	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	291.4386598	268.123567	2018	009000	Construction	C.1 Well Drilling	34.01266018	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	371.5900642	341.862859	2018	010000	Construction	C.1 Well Drilling	38.77123564	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	544.5728937	501.0070622	2018	011000	Construction	C.1 Well Drilling	56.69024632	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	679.9927161	625.5932988	2018	012000	Construction	C.1 Well Drilling	93.73286987	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	834.7582274	767.9775692	2018	013000	Construction	C.1 Well Drilling	101.1228392	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	1028.215117	945.9579072	2018	014000	Construction	C.1 Well Drilling	34.6246822	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	1260.363384	1159.534313	2018	015000	Construction	C.1 Well Drilling	8.493337895	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	23.45834049	21.58167325	2019	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	30.43243937	27.99784422	2019	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	37.40653826	34.4140152	2019	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	44.38063715	40.83018618	2019	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	58.32883492	53.66252813	2019	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	124.3601064	114.4112979	2019	006000	Construction	C.1 Well Drilling	38.50700754	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	148.7249189	136.8269254	2019	007000	Construction	C.1 Well Drilling	28.56212527	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	185.2721377	170.4503667	2019	008000	Construction	C.1 Well Drilling	16.23211079	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	221.8193565	204.0738079	2019	009000	Construction	C.1 Well Drilling	28.83254017	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	282.7313878	260.1128767	2019	010000	Construction	C.1 Well Drilling	32.86405973	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	411.1971285	378.3013582	2019	011000	Construction	C.1 Well Drilling	47.98564097	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	513.3623997	472.2934077	2019	012000	Construction	C.1 Well Drilling	79.33772789	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	630.1227096	579.7128928	2019	013000	Construction	C.1 Well Drilling	85.59055506	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	776.073097	713.9872492	2019	014000	Construction	C.1 Well Drilling	29.30576654	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	951.2135618	875.1164769	2019	015000	Construction	C.1 Well Drilling	7.188500477	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	19.78680255	18.20385834	2020	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	25.64783746	23.59601046	2020	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	31.50887236	28.98816257	2020	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	37.36990727	34.38031469	2020	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	49.09197709	45.16461892	2020	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	119.4004227	109.8483889	2020	006000	Construction	C.1 Well Drilling	37.77169763	No Reduction	No Reduction	No Reduction

No Reduction	No Reduction	1581	2017	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1131	2017	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	219	2017	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	363	2017	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
1.445635355	1.329984535	89	2017	2.09631969	No Reduction	No Reduction	No Reduction	0.06433077	0.05918431
1.072429621	0.986635259	55	2017	0.96085145	No Reduction	No Reduction	No Reduction	0.02949181	0.02713247
0.609555619	0.560791169	25	2017	0.24819514	No Reduction	No Reduction	No Reduction	0.00761945	0.00700989
1.082833579	0.996206901	37	2017	0.65244865	No Reduction	No Reduction	No Reduction	0.02003242	0.01842983
1.23436729	1.135617898	33	2017	0.66325238	No Reduction	No Reduction	No Reduction	0.02036706	0.0187377
1.799816488	1.655831165	31	2017	0.90587658	No Reduction	No Reduction	No Reduction	0.02789716	0.02566538
2.97592251	2.737848716	41	2017	1.98084236	No Reduction	No Reduction	No Reduction	0.06100641	0.0561259
3.210600961	2.953752877	36	2017	1.87632207	No Reduction	No Reduction	No Reduction	0.05779082	0.05316755
1.09933233	1.011385744	10	2017	0.17845394	No Reduction	No Reduction	No Reduction	0.00549666	0.00505693
0.269666188	0.248092893	2	2017	0.00875461	No Reduction	No Reduction	No Reduction	0.00026967	0.00024809
No Reduction	No Reduction	325	2018	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1582	2018	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1133	2018	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	219	2018	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	364	2018	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
1.346774895	1.239032912	89	2018	2.02090057	No Reduction	No Reduction	No Reduction	0.05993148	0.05513696
0.999425674	0.919471627	55	2018	0.92642544	No Reduction	No Reduction	No Reduction	0.02748421	0.02528547
0.568252563	0.522792357	25	2018	0.23933956	No Reduction	No Reduction	No Reduction	0.00710316	0.0065349
1.009689561	0.928914404	37	2018	0.62923421	No Reduction	No Reduction	No Reduction	0.01867926	0.01718492
1.151271201	1.059169497	33	2018	0.63972539	No Reduction	No Reduction	No Reduction	0.01899597	0.0174763
1.695315707	1.559690447	31	2018	0.87869882	No Reduction	No Reduction	No Reduction	0.02627739	0.0241752
2.803508504	2.57922783	41	2018	1.92152383	No Reduction	No Reduction	No Reduction	0.05747192	0.05287417
3.024891239	2.782899933	36	2018	1.82021111	No Reduction	No Reduction	No Reduction	0.05444804	0.0500922
1.035829144	0.952962813	10	2018	0.17312341	No Reduction	No Reduction	No Reduction	0.00517915	0.00476481
0.254105457	0.233777021	2	2018	0.00849334	No Reduction	No Reduction	No Reduction	0.00025411	0.00023378
No Reduction	No Reduction	325	2019	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1586	2019	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1134	2019	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	219	2019	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	365	2019	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
1.024735059	0.942756261	89	2019	1.71356184	No Reduction	No Reduction	No Reduction	0.04560071	0.04195265
0.760105356	0.699296933	55	2019	0.78545845	No Reduction	No Reduction	No Reduction	0.0209029	0.01923067
0.431986492	0.397427572	25	2019	0.20290138	No Reduction	No Reduction	No Reduction	0.00539983	0.00496784
0.767337199	0.705950228	37	2019	0.53340199	No Reduction	No Reduction	No Reduction	0.01419574	0.01306008
0.874648748	0.804676842	33	2019	0.54225699	No Reduction	No Reduction	No Reduction	0.0144317	0.01327717
1.278176253	1.17592215	31	2019	0.74377744	No Reduction	No Reduction	No Reduction	0.01981173	0.01822679
2.113332245	1.94426567	41	2019	1.62642342	No Reduction	No Reduction	No Reduction	0.04332331	0.03985745
2.279923598	2.097529705	36	2019	1.54062999	No Reduction	No Reduction	No Reduction	0.04103862	0.03775553
0.780643731	0.718192233	10	2019	0.14652883	No Reduction	No Reduction	No Reduction	0.00390322	0.00359096
0.191488348	0.176169281	2	2019	0.0071885	No Reduction	No Reduction	No Reduction	0.00019149	0.00017617
No Reduction	No Reduction	326	2020	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1588	2020	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1136	2020	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	220	2020	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	365	2020	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
0.982388937	0.903797828	89	2020	1.68084054	No Reduction	No Reduction	No Reduction	0.04371631	0.040219

No Reduction	1581	No Reduction	No Reduction	2017
No Reduction	1131	No Reduction	No Reduction	2017
No Reduction	219	No Reduction	No Reduction	2017
No Reduction	363	No Reduction	No Reduction	2017
2.160650462	89	0.024276971	169.3075991	2017
0.990343265	55	0.018006241	125.575526	2017
0.255814585	25	0.010232583	71.36203672	2017
0.67248107	37	0.018175164	126.753594	2017
0.68361944	33	0.020715741	144.4715749	2017
0.933773735	31	0.030121733	210.0689686	2017
2.041848767	41	0.049801189	347.3134952	2017
1.934112889	36	0.053725358	374.6806468	2017
0.1839506	10	0.01839506	128.2871482	2017
0.009024272	2	0.004512136	31.46763614	2017
No Reduction	325	No Reduction	No Reduction	2018
No Reduction	1582	No Reduction	No Reduction	2018
No Reduction	1133	No Reduction	No Reduction	2018
No Reduction	219	No Reduction	No Reduction	2018
No Reduction	364	No Reduction	No Reduction	2018
2.080832053	89	0.023380135	163.0530645	2018
0.953909642	55	0.017343812	120.9557426	2018
0.246442717	25	0.009857709	68.74766028	2018
0.64791347	37	0.017511175	122.1229336	2018
0.658721363	33	0.019961253	139.2097814	2018
0.904976211	31	0.029192781	203.5904548	2018
1.978995757	41	0.048268189	336.6223514	2018
1.874659148	36	0.052073865	363.163136	2018
0.178302557	10	0.017830256	124.3482031	2018
0.008747443	2	0.004373722	30.50233497	2018
No Reduction	325	No Reduction	No Reduction	2019
No Reduction	1586	No Reduction	No Reduction	2019
No Reduction	1134	No Reduction	No Reduction	2019
No Reduction	219	No Reduction	No Reduction	2019
No Reduction	365	No Reduction	No Reduction	2019
1.759162546	89	0.019765871	137.8471865	2019
0.806361342	55	0.014661115	102.2466182	2019
0.208301216	25	0.008332049	58.10770723	2019
0.547597731	37	0.014799939	103.2147724	2019
0.55668869	33	0.016869354	117.6468765	2019
0.763589167	31	0.024631909	171.7829307	2019
1.669746733	41	0.04072553	284.0198467	2019
1.581668616	36	0.043935239	306.4043591	2019
0.150432051	10	0.015043205	104.9113126	2019
0.007379989	2	0.003689994	25.73402103	2019
No Reduction	326	No Reduction	No Reduction	2020
No Reduction	1588	No Reduction	No Reduction	2020
No Reduction	1136	No Reduction	No Reduction	2020
No Reduction	220	No Reduction	No Reduction	2020
No Reduction	365	No Reduction	No Reduction	2020
1.724556852	89	0.019377043	135.1354999	2020

	7000	0.58%	No Reduct	No Reduct	No Reduct	0.51%	0.51%	2020	007000	Construction	C.1 Well Drilling	4821.618634	217.3713079
2020	8000	0.26%	No Reduct	No Reduct	No Reduct	0.23%	0.23%	2020	008000	Construction	C.1 Well Drilling	6018.295302	271.0302415
	9000	0.39%	No Reduct	No Reduct	No Reduct	0.35%	0.35%	2020	009000	Construction	C.1 Well Drilling	7214.971971	324.6891751
	10000	0.35%	No Reduct	No Reduct	No Reduct	0.31%	0.31%	2020	010000	Construction	C.1 Well Drilling	9209.433085	414.1207311
	11000	0.34%	No Reduct	No Reduct	No Reduct	0.31%	0.31%	2020	011000	Construction	C.1 Well Drilling	13837.57353	609.3806479
	12000	0.45%	No Reduct	No Reduct	No Reduct	0.41%	0.41%	2020	012000	Construction	C.1 Well Drilling	17288.23892	761.0419164
	13000	0.40%	No Reduct	No Reduct	No Reduct	0.36%	0.36%	2020	013000	Construction	C.1 Well Drilling	21231.85651	934.3690805
	14000	0.11%	No Reduct	No Reduct	No Reduct	0.10%	0.10%	2020	014000	Construction	C.1 Well Drilling	26161.3785	1151.028036
	15000	0.02%	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2020	015000	Construction	C.1 Well Drilling	32076.80488	1411.018782
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2021	001000	Construction	C.1 Well Drilling	454.0675786	30.83737278
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2021	002000	Construction	C.1 Well Drilling	594.768133	40.29517785
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2021	003000	Construction	C.1 Well Drilling	735.4686874	49.75298292
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2021	004000	Construction	C.1 Well Drilling	876.1692418	59.21078799
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2021	005000	Construction	C.1 Well Drilling	1157.570351	78.12639812
	6000	0.94%	No Reduct	No Reduct	No Reduct	0.82%	0.82%	2021	006000	Construction	C.1 Well Drilling	3979.529499	180.8457994
	7000	0.58%	No Reduct	No Reduct	No Reduct	0.51%	0.51%	2021	007000	Construction	C.1 Well Drilling	4769.042215	216.5221677
2021	8000	0.26%	No Reduct	No Reduct	No Reduct	0.23%	0.23%	2021	008000	Construction	C.1 Well Drilling	5953.31129	270.0367203
	9000	0.39%	No Reduct	No Reduct	No Reduct	0.34%	0.34%	2021	009000	Construction	C.1 Well Drilling	7137.580365	323.5512728
	10000	0.35%	No Reduct	No Reduct	No Reduct	0.31%	0.31%	2021	010000	Construction	C.1 Well Drilling	9111.362157	412.7421937
	11000	0.34%	No Reduct	No Reduct	No Reduct	0.31%	0.31%	2021	011000	Construction	C.1 Well Drilling	13724.00099	609.9411943
	12000	0.45%	No Reduct	No Reduct	No Reduct	0.41%	0.41%	2021	012000	Construction	C.1 Well Drilling	17147.00976	761.8105034
	13000	0.40%	No Reduct	No Reduct	No Reduct	0.36%	0.36%	2021	013000	Construction	C.1 Well Drilling	21059.01979	935.3754282
	14000	0.11%	No Reduct	No Reduct	No Reduct	0.10%	0.10%	2021	014000	Construction	C.1 Well Drilling	25949.03232	1152.331584
	15000	0.02%	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2021	015000	Construction	C.1 Well Drilling	31817.04735	1412.678971
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2022	001000	Construction	C.1 Well Drilling	341.9227276	25.77051109
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2022	002000	Construction	C.1 Well Drilling	446.6023834	33.65855547
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2022	003000	Construction	C.1 Well Drilling	551.2820392	41.54659984
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2022	004000	Construction	C.1 Well Drilling	655.961695	49.43464421
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2022	005000	Construction	C.1 Well Drilling	865.3210066	65.21073296
	6000	0.94%	No Reduct	No Reduct	No Reduct	0.82%	0.82%	2022	006000	Construction	C.1 Well Drilling	3920.329107	178.9607315
	7000	0.58%	No Reduct	No Reduct	No Reduct	0.51%	0.51%	2022	007000	Construction	C.1 Well Drilling	4698.818176	214.3316023
2022	8000	0.26%	No Reduct	No Reduct	No Reduct	0.23%	0.23%	2022	008000	Construction	C.1 Well Drilling	5866.55178	267.3879083
	9000	0.39%	No Reduct	No Reduct	No Reduct	0.34%	0.34%	2022	009000	Construction	C.1 Well Drilling	7034.285384	320.4442144
	10000	0.35%	No Reduct	No Reduct	No Reduct	0.31%	0.31%	2022	010000	Construction	C.1 Well Drilling	8980.508058	408.8713912
	11000	0.34%	No Reduct	No Reduct	No Reduct	0.31%	0.31%	2022	011000	Construction	C.1 Well Drilling	13571.14572	607.5116973
	12000	0.45%	No Reduct	No Reduct	No Reduct	0.41%	0.41%	2022	012000	Construction	C.1 Well Drilling	16956.96121	758.8630271
	13000	0.40%	No Reduct	No Reduct	No Reduct	0.36%	0.36%	2022	013000	Construction	C.1 Well Drilling	20826.46463	931.8359755
	14000	0.11%	No Reduct	No Reduct	No Reduct	0.10%	0.10%	2022	014000	Construction	C.1 Well Drilling	25663.3439	1148.052161
	15000	0.02%	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2022	015000	Construction	C.1 Well Drilling	31467.59903	1407.511583
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2023	001000	Construction	C.1 Well Drilling	313.9175079	24.67658143
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2023	002000	Construction	C.1 Well Drilling	410.0209101	32.26580395
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2023	003000	Construction	C.1 Well Drilling	506.1243122	39.85502648
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2023	004000	Construction	C.1 Well Drilling	602.2277144	47.444249
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2023	005000	Construction	C.1 Well Drilling	794.4345188	62.62269405
	6000	0.93%	No Reduct	No Reduct	No Reduct	0.82%	0.82%	2023	006000	Construction	C.1 Well Drilling	3880.922951	178.4587114
	7000	0.58%	No Reduct	No Reduct	No Reduct	0.51%	0.51%	2023	007000	Construction	C.1 Well Drilling	4651.986081	213.7686709
2023	8000	0.26%	No Reduct	No Reduct	No Reduct	0.23%	0.23%	2023	008000	Construction	C.1 Well Drilling	5808.580775	266.7336101
	9000	0.39%	No Reduct	No Reduct	No Reduct	0.34%	0.34%	2023	009000	Construction	C.1 Well Drilling	6965.17547	319.6985494
	10000	0.35%	No Reduct	No Reduct	No Reduct	0.31%	0.31%	2023	010000	Construction	C.1 Well Drilling	8892.833295	407.9734481
	11000	0.34%	No Reduct	No Reduct	No Reduct	0.31%	0.31%	2023	011000	Construction	C.1 Well Drilling	13468.3814	608.4672392

4747.390168	5.585171161	142.8397677	131.4125863	2020	007000	Construction	C.1 Well Drilling	28.02004333	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	177.9987851	163.7588823	2020	008000	Construction	C.1 Well Drilling	15.9259367	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	213.1578026	196.1051784	2020	009000	Construction	C.1 Well Drilling	28.29094464	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	271.756165	250.0156718	2020	010000	Construction	C.1 Well Drilling	32.24953037	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	397.7571575	365.9365849	2020	011000	Construction	C.1 Well Drilling	47.23648485	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	496.6455224	456.9138806	2020	012000	Construction	C.1 Well Drilling	78.10248331	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	609.6607966	560.8879329	2020	013000	Construction	C.1 Well Drilling	84.26067613	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	750.9298894	690.8554982	2020	014000	Construction	C.1 Well Drilling	28.8511918	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	920.4528007	846.8165766	2020	015000	Construction	C.1 Well Drilling	7.07714629	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	18.29023578	16.82701692	2021	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	23.74861487	21.84872568	2021	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	29.20699396	26.87043444	2021	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	34.66537304	31.8921432	2021	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	45.58213122	41.93556072	2021	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	115.4316973	106.1971615	2021	006000	Construction	C.1 Well Drilling	37.29977617	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	138.135017	127.0842157	2021	007000	Construction	C.1 Well Drilling	27.67293236	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	172.1899967	158.4147969	2021	008000	Construction	C.1 Well Drilling	15.73034155	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	206.2449763	189.7453782	2021	009000	Construction	C.1 Well Drilling	27.94549979	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	263.0032757	241.9630136	2021	010000	Construction	C.1 Well Drilling	31.8582471	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	387.1571718	356.184598	2021	011000	Construction	C.1 Well Drilling	46.77851601	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	483.4676901	444.7902749	2021	012000	Construction	C.1 Well Drilling	77.34826053	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	593.5368539	546.0539056	2021	013000	Construction	C.1 Well Drilling	83.44939475	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	731.1233086	672.6334439	2021	014000	Construction	C.1 Well Drilling	28.57408748	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	896.2270543	824.5288899	2021	015000	Construction	C.1 Well Drilling	7.009305901	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	13.75387874	12.65356844	2022	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	17.82438787	16.39843684	2022	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	21.89489701	20.14330525	2022	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	25.96540614	23.88817365	2022	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	34.10642441	31.37791045	2022	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	110.3747683	101.5447868	2022	006000	Construction	C.1 Well Drilling	36.68986137	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	132.1412517	121.5699516	2022	007000	Construction	C.1 Well Drilling	27.22461214	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	164.7909768	151.6076987	2022	008000	Construction	C.1 Well Drilling	15.47788143	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	197.4407019	181.6454457	2022	009000	Construction	C.1 Well Drilling	27.4998231	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	251.8569104	231.7083575	2022	010000	Construction	C.1 Well Drilling	31.35367992	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	373.7364222	343.8375084	2022	011000	Construction	C.1 Well Drilling	46.18822359	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	466.7849399	429.4421447	2022	012000	Construction	C.1 Well Drilling	76.37640796	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	573.126103	527.2760147	2022	013000	Construction	C.1 Well Drilling	82.4042551	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	706.0525568	649.5683523	2022	014000	Construction	C.1 Well Drilling	28.2171725	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	865.5643015	796.3191573	2022	015000	Construction	C.1 Well Drilling	6.921939413	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	12.11604117	11.14675788	2023	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	15.71365812	14.45656547	2023	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	19.31127507	17.76637307	2023	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	22.90889202	21.07618066	2023	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	30.10412592	27.69579585	2023	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	106.7825202	98.23991859	2023	006000	Construction	C.1 Well Drilling	36.26674552	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	127.8743862	117.6444353	2023	007000	Construction	C.1 Well Drilling	26.91296139	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	159.5121851	146.7512103	2023	008000	Construction	C.1 Well Drilling	15.30201632	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	191.1499841	175.8579854	2023	009000	Construction	C.1 Well Drilling	27.18892262	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	243.879649	224.3692771	2023	010000	Construction	C.1 Well Drilling	31.00114863	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	363.9836776	334.8649834	2023	011000	Construction	C.1 Well Drilling	45.76992205	No Reduction	No Reduction	No Reduction

0.728930758	0.670616303	55	2020	0.77055119	No Reduction	No Reduction	No Reduction	0.0200456	0.01844195
0.414404232	0.381251892	25	2020	0.19907421	No Reduction	No Reduction	No Reduction	0.00518005	0.00476565
0.73626666	0.677365332	37	2020	0.52338248	No Reduction	No Reduction	No Reduction	0.01362093	0.01253126
0.839433212	0.77227855	33	2020	0.53211725	No Reduction	No Reduction	No Reduction	0.01385065	0.0127426
1.2345417	1.135778361	31	2020	0.73216552	No Reduction	No Reduction	No Reduction	0.0191354	0.01760456
2.041443369	1.878127904	41	2020	1.60110091	No Reduction	No Reduction	No Reduction	0.04184959	0.03850162
2.20257406	2.02636813	36	2020	1.51669217	No Reduction	No Reduction	No Reduction	0.03964633	0.03647463
0.754217713	0.693880296	10	2020	0.14425596	No Reduction	No Reduction	No Reduction	0.00377109	0.0034694
0.185017553	0.170216149	2	2020	0.00707715	No Reduction	No Reduction	No Reduction	0.00018502	0.00017022
No Reduction	No Reduction	326	2021	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1590	2021	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1139	2021	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	220	2021	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	366	2021	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
0.948310916	0.872446048	89	2021	1.65984004	No Reduction	No Reduction	No Reduction	0.04219984	0.03882385
0.703864393	0.647555247	55	2021	0.76100564	No Reduction	No Reduction	No Reduction	0.01935627	0.01780777
0.400279299	0.368256954	25	2021	0.19662927	No Reduction	No Reduction	No Reduction	0.00500349	0.00460321
0.711320538	0.6544149	37	2021	0.51699175	No Reduction	No Reduction	No Reduction	0.01315943	0.01210668
0.811177638	0.746283421	33	2021	0.52566108	No Reduction	No Reduction	No Reduction	0.01338443	0.01231368
1.199839453	1.103852295	31	2021	0.725067	No Reduction	No Reduction	No Reduction	0.01859751	0.01710971
1.984295453	1.825551821	41	2021	1.58563934	No Reduction	No Reduction	No Reduction	0.04067806	0.03742381
2.141105221	1.969816799	36	2021	1.50208911	No Reduction	No Reduction	No Reduction	0.03853989	0.0354567
0.733222926	0.674565092	10	2021	0.14287044	No Reduction	No Reduction	No Reduction	0.00366611	0.00337283
0.179877784	0.165487561	2	2021	0.00700931	No Reduction	No Reduction	No Reduction	0.00017988	0.00016549
No Reduction	No Reduction	326	2022	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1595	2022	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1140	2022	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	220	2022	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	366	2022	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
0.9054084	0.832975734	89	2022	1.63269883	No Reduction	No Reduction	No Reduction	0.04029067	0.03706742
0.672314802	0.618529623	55	2022	0.74867683	No Reduction	No Reduction	No Reduction	0.01848866	0.01700956
0.382505502	0.351905062	25	2022	0.19347352	No Reduction	No Reduction	No Reduction	0.00478132	0.00439881
0.679935477	0.625540644	37	2022	0.50874673	No Reduction	No Reduction	No Reduction	0.01257881	0.0115725
0.775635593	0.71358474	33	2022	0.51733572	No Reduction	No Reduction	No Reduction	0.01279799	0.01177415
1.156512417	1.063991421	31	2022	0.71591747	No Reduction	No Reduction	No Reduction	0.01792594	0.01649187
1.912955043	1.759918644	41	2022	1.56571636	No Reduction	No Reduction	No Reduction	0.03921558	0.03607833
2.064379584	1.899229212	36	2022	1.48327659	No Reduction	No Reduction	No Reduction	0.03715883	0.03418613
0.707019647	0.650458076	10	2022	0.14108586	No Reduction	No Reduction	No Reduction	0.0035351	0.00325229
0.173463403	0.159586331	2	2022	0.00692194	No Reduction	No Reduction	No Reduction	0.00017346	0.00015959
No Reduction	No Reduction	327	2023	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1598	2023	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1141	2023	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	221	2023	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	366	2023	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
0.874631072	0.804660591	89	2023	1.61387018	No Reduction	No Reduction	No Reduction	0.03892108	0.0358074
0.649632643	0.597662036	55	2023	0.74010644	No Reduction	No Reduction	No Reduction	0.0178649	0.01643571
0.369698888	0.340122976	25	2023	0.1912752	No Reduction	No Reduction	No Reduction	0.00462124	0.00425154
0.657287393	0.604704407	37	2023	0.50299507	No Reduction	No Reduction	No Reduction	0.01215982	0.01118703
0.749945046	0.689949437	33	2023	0.51151895	No Reduction	No Reduction	No Reduction	0.01237409	0.01138417
1.124648493	1.034676611	31	2023	0.70943379	No Reduction	No Reduction	No Reduction	0.01743205	0.01603749

0.790596787	55	0.014374487	100.2476726	2020
0.204254262	25	0.00817017	56.97876883	2020
0.537003409	37	0.014513606	101.2178858	2020
0.545967899	33	0.016544482	115.381216	2020
0.751300911	31	0.024235513	169.0184696	2020
1.642950497	41	0.040071963	279.4618723	2020
1.556338503	36	0.043231625	301.4973534	2020
0.148027048	10	0.014802705	103.234063	2020
0.007262164	2	0.003631082	25.32316532	2020
No Reduction	326	No Reduction	No Reduction	2021
No Reduction	1590	No Reduction	No Reduction	2021
No Reduction	1139	No Reduction	No Reduction	2021
No Reduction	220	No Reduction	No Reduction	2021
No Reduction	366	No Reduction	No Reduction	2021
1.702039875	89	0.019124044	133.3710797	2021
0.780361911	55	0.014188398	98.94989029	2021
0.201632761	25	0.00806531	56.24747491	2021
0.530151176	37	0.01432841	99.92633247	2021
0.539045508	33	0.016334712	113.9182841	2021
0.74366451	31	0.023989178	167.3005255	2021
1.626317398	41	0.039666278	276.6326227	2021
1.540629	36	0.04279525	298.4540734	2021
0.146536552	10	0.014653655	102.1945914	2021
0.007189184	2	0.003594592	25.06868351	2021
No Reduction	326	No Reduction	No Reduction	2022
No Reduction	1595	No Reduction	No Reduction	2022
No Reduction	1140	No Reduction	No Reduction	2022
No Reduction	220	No Reduction	No Reduction	2022
No Reduction	366	No Reduction	No Reduction	2022
1.672989505	89	0.018797635	131.0947057	2022
0.767165491	55	0.013948463	97.27658426	2022
0.198254837	25	0.007930193	55.30516924	2022
0.521325534	37	0.014089879	98.26281816	2022
0.530133706	33	0.016064658	112.0349232	2022
0.733843408	31	0.023672368	165.0910945	2022
1.604931941	41	0.039144681	272.9950088	2022
1.520435424	36	0.042234317	294.5421292	2022
0.144620961	10	0.014462096	100.858658	2022
0.007095403	2	0.003547701	24.74166962	2022
No Reduction	327	No Reduction	No Reduction	2023
No Reduction	1598	No Reduction	No Reduction	2023
No Reduction	1141	No Reduction	No Reduction	2023
No Reduction	221	No Reduction	No Reduction	2023
No Reduction	366	No Reduction	No Reduction	2023
1.652791259	89	0.018570688	129.5119802	2023
0.757971336	55	0.013781297	96.1107654	2023
0.19589644	25	0.007835858	54.64727094	2023
0.515154885	37	0.013923105	97.09973432	2023
0.523893046	33	0.015875547	110.7160637	2023
0.726865843	31	0.023447285	163.5213675	2023

	12000	0.45%	No Reduct	No Reduct	No Reduct	0.41%	0.41%	2023	012000	Construction	C.1 Well Drilling	16829.07493	760.1068205
	13000	0.40%	No Reduct	No Reduct	No Reduct	0.36%	0.36%	2023	013000	Construction	C.1 Well Drilling	20669.86753	933.4091991
	14000	0.11%	No Reduct	No Reduct	No Reduct	0.10%	0.10%	2023	014000	Construction	C.1 Well Drilling	25470.85828	1150.037172
	15000	0.02%	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2023	015000	Construction	C.1 Well Drilling	31232.04718	1409.99074
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2024	001000	Construction	C.1 Well Drilling	279.1916833	23.5733669
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2024	002000	Construction	C.1 Well Drilling	364.3215201	30.8390318
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2024	003000	Construction	C.1 Well Drilling	449.451357	38.1046967
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2024	004000	Construction	C.1 Well Drilling	534.5811938	45.3703616
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2024	005000	Construction	C.1 Well Drilling	704.8408675	59.9016914
	6000	0.95%	No Reduct	No Reduct	No Reduct	0.84%	0.84%	2024	006000	Construction	C.1 Well Drilling	3872.359814	180.2189412
	7000	0.58%	No Reduct	No Reduct	No Reduct	0.51%	0.51%	2024	007000	Construction	C.1 Well Drilling	4642.071342	215.9074549
2024	8000	0.26%	No Reduct	No Reduct	No Reduct	0.23%	0.23%	2024	008000	Construction	C.1 Well Drilling	5796.638635	269.4402256
	9000	0.39%	No Reduct	No Reduct	No Reduct	0.34%	0.34%	2024	009000	Construction	C.1 Well Drilling	6951.205927	322.9729963
	10000	0.35%	No Reduct	No Reduct	No Reduct	0.31%	0.31%	2024	010000	Construction	C.1 Well Drilling	8875.484748	412.1942808
	11000	0.34%	No Reduct	No Reduct	No Reduct	0.31%	0.31%	2024	011000	Construction	C.1 Well Drilling	13456.8761	615.976267
	12000	0.45%	No Reduct	No Reduct	No Reduct	0.41%	0.41%	2024	012000	Construction	C.1 Well Drilling	16815.14459	769.5262407
	13000	0.39%	No Reduct	No Reduct	No Reduct	0.36%	0.36%	2024	013000	Construction	C.1 Well Drilling	20653.16571	945.0119249
	14000	0.11%	No Reduct	No Reduct	No Reduct	0.10%	0.10%	2024	014000	Construction	C.1 Well Drilling	25450.69211	1164.36903
	15000	0.02%	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2024	015000	Construction	C.1 Well Drilling	31207.7238	1427.597556
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2025	001000	Construction	C.1 Well Drilling	259.2889181	22.75828312
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2025	002000	Construction	C.1 Well Drilling	338.491929	29.80596118
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2025	003000	Construction	C.1 Well Drilling	417.6949398	36.85363923
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2025	004000	Construction	C.1 Well Drilling	496.8979507	43.90131728
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2025	005000	Construction	C.1 Well Drilling	655.3039724	57.99667339
	6000	0.95%	No Reduct	No Reduct	No Reduct	0.83%	0.83%	2025	006000	Construction	C.1 Well Drilling	3854.5428	181.183546
	7000	0.59%	No Reduct	No Reduct	No Reduct	0.52%	0.52%	2025	007000	Construction	C.1 Well Drilling	4621.115383	217.0972054
2025	8000	0.26%	No Reduct	No Reduct	No Reduct	0.23%	0.23%	2025	008000	Construction	C.1 Well Drilling	5770.974257	270.9676945
	9000	0.39%	No Reduct	No Reduct	No Reduct	0.34%	0.34%	2025	009000	Construction	C.1 Well Drilling	6920.833131	324.8381836
	10000	0.35%	No Reduct	No Reduct	No Reduct	0.31%	0.31%	2025	010000	Construction	C.1 Well Drilling	8837.264589	414.6223321
	11000	0.34%	No Reduct	No Reduct	No Reduct	0.31%	0.31%	2025	011000	Construction	C.1 Well Drilling	13418.10925	621.1381394
	12000	0.45%	No Reduct	No Reduct	No Reduct	0.41%	0.41%	2025	012000	Construction	C.1 Well Drilling	16767.21659	776.018862
	13000	0.39%	No Reduct	No Reduct	No Reduct	0.36%	0.36%	2025	013000	Construction	C.1 Well Drilling	20594.76783	953.0254021
	14000	0.11%	No Reduct	No Reduct	No Reduct	0.10%	0.10%	2025	014000	Construction	C.1 Well Drilling	25379.20689	1174.283577
	15000	0.02%	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2025	015000	Construction	C.1 Well Drilling	31120.53376	1439.793387
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2026	001000	Construction	C.1 Well Drilling	248.7099637	22.54780152
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2026	002000	Construction	C.1 Well Drilling	324.8772241	29.55905691
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2026	003000	Construction	C.1 Well Drilling	401.0444845	36.5703123
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2026	004000	Construction	C.1 Well Drilling	477.2117449	43.58156769
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2026	005000	Construction	C.1 Well Drilling	629.5462656	57.60407848
	6000	0.95%	No Reduct	No Reduct	No Reduct	0.83%	0.83%	2026	006000	Construction	C.1 Well Drilling	2751.246266	132.6260497
	7000	0.59%	No Reduct	No Reduct	No Reduct	0.51%	0.51%	2026	007000	Construction	C.1 Well Drilling	3297.453882	158.8484526
2026	8000	0.26%	No Reduct	No Reduct	No Reduct	0.23%	0.23%	2026	008000	Construction	C.1 Well Drilling	4116.765307	198.1820569
	9000	0.39%	No Reduct	No Reduct	No Reduct	0.34%	0.34%	2026	009000	Construction	C.1 Well Drilling	4936.076732	237.5156612
	10000	0.35%	No Reduct	No Reduct	No Reduct	0.31%	0.31%	2026	010000	Construction	C.1 Well Drilling	6301.595774	303.0716684
	11000	0.34%	No Reduct	No Reduct	No Reduct	0.31%	0.31%	2026	011000	Construction	C.1 Well Drilling	9527.043073	450.2183429
	12000	0.45%	No Reduct	No Reduct	No Reduct	0.41%	0.41%	2026	012000	Construction	C.1 Well Drilling	11903.7518	562.3944198
	13000	0.40%	No Reduct	No Reduct	No Reduct	0.37%	0.37%	2026	013000	Construction	C.1 Well Drilling	14619.99034	690.5956505
	14000	0.11%	No Reduct	No Reduct	No Reduct	0.10%	0.10%	2026	014000	Construction	C.1 Well Drilling	18015.28851	850.8471889
	15000	0.02%	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2026	015000	Construction	C.1 Well Drilling	22089.64632	1043.149035
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2027	001000	Construction	C.1 Well Drilling	237.4394104	22.28579071

16846.89225	19.81478506	454.6487994	418.2768955	2023	012000	Construction	C.1 Well Drilling	75.68703063	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	558.2660815	513.604795	2023	013000	Construction	C.1 Well Drilling	81.66233595	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	687.7876841	632.7646694	2023	014000	Construction	C.1 Well Drilling	27.96364947	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	843.2136073	775.7565187	2023	015000	Construction	C.1 Well Drilling	6.859850622	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	10.7065109	9.849990027	2024	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	13.88905201	12.77792785	2024	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	17.07159313	15.70586568	2024	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	20.25413424	18.6338035	2024	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	26.61921647	24.48967915	2024	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	105.3744057	96.94445324	2024	006000	Construction	C.1 Well Drilling	36.94465765	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	126.2175093	116.1201086	2024	007000	Construction	C.1 Well Drilling	26.81549909	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	157.4821648	144.8835916	2024	008000	Construction	C.1 Well Drilling	15.24775295	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	188.7468202	173.6470746	2024	009000	Construction	C.1 Well Drilling	27.09387254	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	240.8545793	221.5862129	2024	010000	Construction	C.1 Well Drilling	30.89446708	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	360.6164814	331.7671629	2024	011000	Construction	C.1 Well Drilling	45.66253437	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	450.4808799	414.4424095	2024	012000	Construction	C.1 Well Drilling	75.51145195	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	553.1830496	508.9284056	2024	013000	Construction	C.1 Well Drilling	81.47450432	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	681.5607616	627.0359007	2024	014000	Construction	C.1 Well Drilling	27.89978517	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	835.6140162	768.7648949	2024	015000	Construction	C.1 Well Drilling	6.844272497	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	9.567177173	8.801802999	2025	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	12.43192262	11.43736881	2025	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	15.29666807	14.07293462	2025	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	18.16141351	16.70850043	2025	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	23.8909044	21.97963205	2025	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	103.286051	95.02316693	2025	006000	Construction	C.1 Well Drilling	36.71983953	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	123.7486731	113.8487792	2025	007000	Construction	C.1 Well Drilling	27.13927139	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	154.4426061	142.0871976	2025	008000	Construction	C.1 Well Drilling	15.1576096	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	185.1365392	170.325616	2025	009000	Construction	C.1 Well Drilling	26.9352659	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	236.2930943	217.3896467	2025	010000	Construction	C.1 Well Drilling	30.71556048	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	355.2807659	326.8583046	2025	011000	Construction	C.1 Well Drilling	45.46309962	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	443.8577221	408.3491044	2025	012000	Construction	C.1 Well Drilling	75.18395188	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	545.0885293	501.481447	2025	013000	Construction	C.1 Well Drilling	81.12299165	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	671.6270382	617.8968752	2025	014000	Construction	C.1 Well Drilling	27.77993776	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	823.473249	757.5953891	2025	015000	Construction	C.1 Well Drilling	6.814973886	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	8.829692143	8.123316771	2026	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	11.49217578	10.57280172	2026	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	14.15465942	13.02228666	2026	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	16.81714305	15.47177161	2026	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	22.14211033	20.3707415	2026	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	61.34753113	56.43972864	2026	006000	Construction	C.1 Well Drilling	26.170396	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	73.44858911	67.57270198	2026	007000	Construction	C.1 Well Drilling	19.33672976	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	91.60017608	84.27216199	2026	008000	Construction	C.1 Well Drilling	10.79668958	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	109.751763	100.971622	2026	009000	Construction	C.1 Well Drilling	19.1821692	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	140.004408	128.8040554	2026	010000	Construction	C.1 Well Drilling	21.86976184	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	208.1908107	191.5355459	2026	011000	Construction	C.1 Well Drilling	32.23137056	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	260.0279531	239.2257169	2026	012000	Construction	C.1 Well Drilling	53.29677913	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	319.2704015	293.7287694	2026	013000	Construction	C.1 Well Drilling	59.09983828	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	393.3234621	361.8575851	2026	014000	Construction	C.1 Well Drilling	19.69007498	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	482.1871347	443.6121639	2026	015000	Construction	C.1 Well Drilling	4.830130307	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	8.101693118	7.453557668	2027	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction

1.860432841	1.711598217	41	2023	1.55158413	No Reduction	No Reduction	No Reduction	0.03813887	0.03508776
2.007847062	1.847219293	36	2023	1.46992205	No Reduction	No Reduction	No Reduction	0.03614125	0.03324995
0.687699752	0.632683772	10	2023	0.13981825	No Reduction	No Reduction	No Reduction	0.0034385	0.00316342
0.168731494	0.155232975	2	2023	0.00685985	No Reduction	No Reduction	No Reduction	0.00016873	0.00015523
No Reduction	No Reduction	327	2024	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1599	2024	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1142	2024	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	221	2024	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	368	2024	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
0.88117517	0.810681162	91	2024	1.68098192	No Reduction	No Reduction	No Reduction	0.04009347	0.03688599
0.640257795	0.589037177	55	2024	0.73742622	No Reduction	No Reduction	No Reduction	0.01760709	0.01619852
0.364448903	0.33529299	25	2024	0.19059691	No Reduction	No Reduction	No Reduction	0.00455561	0.00419116
0.648054711	0.596210339	37	2024	0.50123664	No Reduction	No Reduction	No Reduction	0.01198901	0.01102989
0.739536782	0.680373834	33	2024	0.50975871	No Reduction	No Reduction	No Reduction	0.01220236	0.01122617
1.112580542	1.023574096	31	2024	0.70776928	No Reduction	No Reduction	No Reduction	0.017245	0.0158654
1.840624943	1.693374952	41	2024	1.54798477	No Reduction	No Reduction	No Reduction	0.03773281	0.03471419
1.986594566	1.827666996	36	2024	1.46654108	No Reduction	No Reduction	No Reduction	0.0357587	0.03289801
0.680455995	0.626019515	10	2024	0.13949893	No Reduction	No Reduction	No Reduction	0.00340228	0.0031301
0.166961083	0.153604197	2	2024	0.00684427	No Reduction	No Reduction	No Reduction	0.00016696	0.0001536
No Reduction	No Reduction	328	2025	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1601	2025	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1144	2025	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	221	2025	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	368	2025	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
0.862423826	0.793429926	91	2025	1.6707527	No Reduction	No Reduction	No Reduction	0.03924028	0.03610106
0.638194589	0.587139026	56	2025	0.7598996	No Reduction	No Reduction	No Reduction	0.01786945	0.01643989
0.356881761	0.328331219	25	2025	0.18947012	No Reduction	No Reduction	No Reduction	0.00446102	0.00410414
0.634711153	0.583934266	37	2025	0.49830242	No Reduction	No Reduction	No Reduction	0.01174216	0.01080278
0.724449073	0.666493142	33	2025	0.50680675	No Reduction	No Reduction	No Reduction	0.01195341	0.01099714
1.094484323	1.006925575	31	2025	0.70467804	No Reduction	No Reduction	No Reduction	0.01696451	0.01560735
1.810859187	1.665990457	41	2025	1.54127101	No Reduction	No Reduction	No Reduction	0.03712261	0.0341528
1.954606697	1.798238157	36	2025	1.46021385	No Reduction	No Reduction	No Reduction	0.03518292	0.03236829
0.669538565	0.61597548	10	2025	0.13889969	No Reduction	No Reduction	No Reduction	0.00334769	0.00307988
0.164289948	0.151146753	2	2025	0.00681497	No Reduction	No Reduction	No Reduction	0.00016429	0.00015115
No Reduction	No Reduction	328	2026	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1603	2026	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1146	2026	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	222	2026	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	368	2026	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
0.511480509	0.470562071	91	2026	1.19075302	No Reduction	No Reduction	No Reduction	0.02327236	0.02141057
0.378223884	0.347965976	56	2026	0.54142843	No Reduction	No Reduction	No Reduction	0.01059027	0.00974305
0.211352051	0.194443886	25	2026	0.13495862	No Reduction	No Reduction	No Reduction	0.0026419	0.00243055
0.37570625	0.345649753	37	2026	0.35487013	No Reduction	No Reduction	No Reduction	0.00695057	0.00639452
0.428599309	0.394311362	33	2026	0.36085107	No Reduction	No Reduction	No Reduction	0.00707189	0.00650614
0.640401487	0.589169366	31	2026	0.49958624	No Reduction	No Reduction	No Reduction	0.00992622	0.00913213
1.05928754	0.97454454	41	2026	1.09258397	No Reduction	No Reduction	No Reduction	0.02171539	0.01997816
1.174906069	1.080913581	37	2026	1.09334701	No Reduction	No Reduction	No Reduction	0.02173576	0.0199969
0.391516621	0.360195292	10	2026	0.09845037	No Reduction	No Reduction	No Reduction	0.00195758	0.00180098
0.096057226	0.088372648	2	2026	0.00483013	No Reduction	No Reduction	No Reduction	9.6057E-05	8.8373E-05
No Reduction	No Reduction	329	2027	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction

1.589723001	41	0.038773732	270.4080051	2023
1.506063294	36	0.041835092	291.7579282	2023
0.143256746	10	0.014325675	99.90725473	2023
0.007028582	2	0.003514291	24.50866584	2023
No Reduction	327	No Reduction	No Reduction	2024
No Reduction	1599	No Reduction	No Reduction	2024
No Reduction	1142	No Reduction	No Reduction	2024
No Reduction	221	No Reduction	No Reduction	2024
No Reduction	368	No Reduction	No Reduction	2024
1.721075393	91	0.018912916	131.898679	2024
0.755033314	55	0.013727878	95.73822426	2024
0.195152523	25	0.007806101	54.43974787	2024
0.513225654	37	0.013870964	96.73610031	2024
0.521961064	33	0.015817002	110.3077715	2024
0.725014281	31	0.023387557	163.1048257	2024
1.585717576	41	0.038676038	269.7266921	2024
1.50229978	36	0.041730549	291.0288518	2024
0.142901206	10	0.014290121	99.65930093	2024
0.007011234	2	0.003505617	24.44817149	2024
No Reduction	328	No Reduction	No Reduction	2025
No Reduction	1601	No Reduction	No Reduction	2025
No Reduction	1144	No Reduction	No Reduction	2025
No Reduction	221	No Reduction	No Reduction	2025
No Reduction	368	No Reduction	No Reduction	2025
1.709992983	91	0.018791132	131.0493523	2025
0.777769048	56	0.013888733	96.86002388	2025
0.193931142	25	0.007757246	54.09903137	2025
0.510044576	37	0.013784989	96.13651	2025
0.518760158	33	0.015720005	109.6313133	2025
0.721642551	31	0.023278792	162.3462952	2025
1.578393627	41	0.038497406	268.4809062	2025
1.49539677	36	0.041538799	289.6915854	2025
0.142247382	10	0.014224738	99.20332396	2025
0.006979264	2	0.003489632	24.33669299	2025
No Reduction	328	No Reduction	No Reduction	2026
No Reduction	1603	No Reduction	No Reduction	2026
No Reduction	1146	No Reduction	No Reduction	2026
No Reduction	222	No Reduction	No Reduction	2026
No Reduction	368	No Reduction	No Reduction	2026
1.214025381	91	0.013340938	93.0397034	2026
0.552018702	56	0.009857477	68.74604336	2026
0.13760052	25	0.005504021	38.38504117	2026
0.361820696	37	0.009778938	68.19831168	2026
0.367922959	33	0.011149181	77.75438533	2026
0.509512467	31	0.016435886	114.6238691	2026
1.114299367	41	0.027178033	189.5396045	2026
1.115082771	37	0.030137372	210.1780336	2026
0.100407958	10	0.010040796	70.02450991	2026
0.004926188	2	0.002463094	17.17761593	2026
No Reduction	329	No Reduction	No Reduction	2027

	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2027	002000	Construction	C.1 Well Drilling	310.3226543	29.23918253
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2027	003000	Construction	C.1 Well Drilling	383.2058981	36.19257436
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2027	004000	Construction	C.1 Well Drilling	456.089142	43.14596618
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2027	005000	Construction	C.1 Well Drilling	601.8556298	57.05274983
	6000	0.95%	No Reduct	No Reduct	No Reduct	0.83%	0.83%	2027	006000	Construction	C.1 Well Drilling	2732.765427	134.013557
	7000	0.59%	No Reduct	No Reduct	No Reduct	0.51%	0.51%	2027	007000	Construction	C.1 Well Drilling	3275.560577	160.5311453
2027	8000	0.26%	No Reduct	No Reduct	No Reduct	0.23%	0.23%	2027	008000	Construction	C.1 Well Drilling	4089.753302	200.3075278
	9000	0.40%	No Reduct	No Reduct	No Reduct	0.35%	0.35%	2027	009000	Construction	C.1 Well Drilling	4903.946026	240.0839103
	10000	0.35%	No Reduct	No Reduct	No Reduct	0.31%	0.31%	2027	010000	Construction	C.1 Well Drilling	6260.9339	306.3778812
	11000	0.34%	No Reduct	No Reduct	No Reduct	0.31%	0.31%	2027	011000	Construction	C.1 Well Drilling	9482.797117	456.3735298
	12000	0.45%	No Reduct	No Reduct	No Reduct	0.41%	0.41%	2027	012000	Construction	C.1 Well Drilling	11848.79898	570.1105084
	13000	0.40%	No Reduct	No Reduct	No Reduct	0.37%	0.37%	2027	013000	Construction	C.1 Well Drilling	14552.8011	700.0956269
	14000	0.11%	No Reduct	No Reduct	No Reduct	0.10%	0.10%	2027	014000	Construction	C.1 Well Drilling	17932.80376	862.5770249
	15000	0.02%	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2027	015000	Construction	C.1 Well Drilling	21988.80695	1057.554703
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2028	001000	Construction	C.1 Well Drilling	220.3047946	21.91287962
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2028	002000	Construction	C.1 Well Drilling	287.738463	28.7537402
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2028	003000	Construction	C.1 Well Drilling	355.1721314	35.59460077
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2028	004000	Construction	C.1 Well Drilling	422.6057999	42.43546135
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2028	005000	Construction	C.1 Well Drilling	557.4731368	56.11718251
	6000	0.95%	No Reduct	No Reduct	No Reduct	0.83%	0.83%	2028	006000	Construction	C.1 Well Drilling	2729.804588	136.2304136
	7000	0.58%	No Reduct	No Reduct	No Reduct	0.51%	0.51%	2028	007000	Construction	C.1 Well Drilling	3272.164748	163.1984367
2028	8000	0.26%	No Reduct	No Reduct	No Reduct	0.23%	0.23%	2028	008000	Construction	C.1 Well Drilling	4085.704988	203.6504715
	9000	0.40%	No Reduct	No Reduct	No Reduct	0.35%	0.35%	2028	009000	Construction	C.1 Well Drilling	4899.245228	244.1025062
	10000	0.35%	No Reduct	No Reduct	No Reduct	0.31%	0.31%	2028	010000	Construction	C.1 Well Drilling	6255.145627	311.522564
	11000	0.34%	No Reduct	No Reduct	No Reduct	0.31%	0.31%	2028	011000	Construction	C.1 Well Drilling	9482.668135	464.5924702
	12000	0.45%	No Reduct	No Reduct	No Reduct	0.41%	0.41%	2028	012000	Construction	C.1 Well Drilling	11848.83422	580.3930133
	13000	0.40%	No Reduct	No Reduct	No Reduct	0.37%	0.37%	2028	013000	Construction	C.1 Well Drilling	14553.02403	712.7364911
	14000	0.11%	No Reduct	No Reduct	No Reduct	0.10%	0.10%	2028	014000	Construction	C.1 Well Drilling	17933.2613	878.1658384
	15000	0.02%	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2028	015000	Construction	C.1 Well Drilling	21989.54602	1076.681055
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2029	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2029	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2029	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2029	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2029	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.95%	No Reduct	No Reduct	No Reduct	0.83%	0.83%	2029	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.58%	No Reduct	No Reduct	No Reduct	0.51%	0.51%	2029	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2029	8000	0.26%	No Reduct	No Reduct	No Reduct	0.23%	0.23%	2029	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.40%	No Reduct	No Reduct	No Reduct	0.35%	0.35%	2029	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.35%	No Reduct	No Reduct	No Reduct	0.30%	0.30%	2029	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.34%	No Reduct	No Reduct	No Reduct	0.31%	0.31%	2029	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.45%	No Reduct	No Reduct	No Reduct	0.41%	0.41%	2029	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.40%	No Reduct	No Reduct	No Reduct	0.37%	0.37%	2029	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.11%	No Reduct	No Reduct	No Reduct	0.10%	0.10%	2029	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.02%	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2029	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2030	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2030	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2030	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2030	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2030	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.95%	No Reduct	No Reduct	No Reduct	0.83%	0.83%	2030	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451

855.7315035	1.008083983	10.56198754	9.71702854	2027	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	13.02228197	11.98049941	2027	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	15.48257639	14.24397028	2027	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	20.40316524	18.77091203	2027	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	59.61227168	54.84328995	2027	006000	Construction	C.1 Well Drilling	25.95595852	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	71.39056405	65.67931893	2027	007000	Construction	C.1 Well Drilling	19.17978885	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	89.05800261	81.9333624	2027	008000	Construction	C.1 Well Drilling	10.70990223	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	106.7254412	98.18740587	2027	009000	Construction	C.1 Well Drilling	19.54327116	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	136.1711721	125.2774783	2027	010000	Construction	C.1 Well Drilling	21.69634209	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	203.5993388	187.3113917	2027	011000	Construction	C.1 Well Drilling	32.03398679	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	254.3189711	233.9734534	2027	012000	Construction	C.1 Well Drilling	52.97187205	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	312.2842651	287.3015239	2027	013000	Construction	C.1 Well Drilling	58.74077732	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	384.7408826	353.961612	2027	014000	Construction	C.1 Well Drilling	19.57078441	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	471.6888236	433.9537177	2027	015000	Construction	C.1 Well Drilling	4.800932941	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	7.431979033	6.83742071	2028	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	9.688992596	8.913873189	2028	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	11.94600616	10.99032567	2028	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	14.20301972	13.06677815	2028	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	18.71704685	17.2196831	2028	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	58.97986828	54.26147881	2028	006000	Construction	C.1 Well Drilling	25.88934868	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	70.64365426	64.99216192	2028	007000	Construction	C.1 Well Drilling	19.13146361	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	88.13933324	81.08818658	2028	008000	Construction	C.1 Well Drilling	10.68341866	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	105.6350122	97.18421124	2028	009000	Construction	C.1 Well Drilling	19.49555498	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	134.7944772	124.010919	2028	010000	Construction	C.1 Well Drilling	21.64410711	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	202.0884447	185.9213691	2028	011000	Construction	C.1 Well Drilling	31.98600003	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	252.4453213	232.2496956	2028	012000	Construction	C.1 Well Drilling	52.89339722	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	309.9960374	285.1963544	2028	013000	Construction	C.1 Well Drilling	58.65448022	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	381.9344325	351.3796779	2028	014000	Construction	C.1 Well Drilling	19.54223186	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	468.2605067	430.7996662	2028	015000	Construction	C.1 Well Drilling	4.793967497	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2029	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2029	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2029	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2029	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2029	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2029	006000	Construction	C.1 Well Drilling	25.84376733	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2029	007000	Construction	C.1 Well Drilling	19.09841009	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2029	008000	Construction	C.1 Well Drilling	10.6653133	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2029	009000	Construction	C.1 Well Drilling	19.4629451	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2029	010000	Construction	C.1 Well Drilling	21.60842253	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2029	011000	Construction	C.1 Well Drilling	31.9612883	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2029	012000	Construction	C.1 Well Drilling	52.85315373	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2029	013000	Construction	C.1 Well Drilling	58.61036616	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2029	014000	Construction	C.1 Well Drilling	19.52767522	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2029	015000	Construction	C.1 Well Drilling	4.790424046	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2030	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2030	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2030	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2030	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2030	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2030	006000	Construction	C.1 Well Drilling	25.80551805	No Reduction	No Reduction	No Reduction

No Reduction	No Reduction	1604	2027	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1148	2027	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	222	2027	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	369	2027	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
0.496274042	0.456572122	91	2027	1.18099611	No Reduction	No Reduction	No Reduction	0.02258047	0.02077403
0.367079553	0.337713192	56	2027	0.53703409	No Reduction	No Reduction	No Reduction	0.01027823	0.00945597
0.205180931	0.188766456	25	2027	0.13387378	No Reduction	No Reduction	No Reduction	0.00256476	0.00235958
0.374662852	0.344689826	38	2027	0.37132215	No Reduction	No Reduction	No Reduction	0.00711859	0.00654911
0.4162448	0.382945214	33	2027	0.35798964	No Reduction	No Reduction	No Reduction	0.00686804	0.0063186
0.625346937	0.575319181	31	2027	0.4965268	No Reduction	No Reduction	No Reduction	0.00969288	0.00891745
1.03449042	0.951731189	41	2027	1.08592338	No Reduction	No Reduction	No Reduction	0.02120705	0.01951049
1.147488864	1.055689752	37	2027	1.08670438	No Reduction	No Reduction	No Reduction	0.02122854	0.01953026
0.382404132	0.351811802	10	2027	0.09785392	No Reduction	No Reduction	No Reduction	0.00191202	0.00175906
0.09382615	0.086320059	2	2027	0.00480093	No Reduction	No Reduction	No Reduction	9.3826E-05	8.632E-05
No Reduction	No Reduction	329	2028	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1608	2028	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1150	2028	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	222	2028	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	369	2028	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
0.490280403	0.451057974	91	2028	1.17796536	No Reduction	No Reduction	No Reduction	0.02230776	0.02052314
0.362699858	0.333683872	56	2028	0.53568098	No Reduction	No Reduction	No Reduction	0.0101556	0.00934315
0.202762975	0.186541937	25	2028	0.13354273	No Reduction	No Reduction	No Reduction	0.00253454	0.00233177
0.370284396	0.340661647	38	2028	0.37041554	No Reduction	No Reduction	No Reduction	0.0070354	0.00647257
0.41142492	0.378510923	33	2028	0.35712777	No Reduction	No Reduction	No Reduction	0.00678851	0.00624543
0.619784903	0.57020211	31	2028	0.495783	No Reduction	No Reduction	No Reduction	0.00960667	0.00883813
1.025344697	0.943317124	41	2028	1.08431464	No Reduction	No Reduction	No Reduction	0.02101957	0.019338
1.137389902	1.046398707	37	2028	1.08510788	No Reduction	No Reduction	No Reduction	0.02104171	0.01935838
0.379051222	0.348727124	10	2028	0.09771116	No Reduction	No Reduction	No Reduction	0.00189526	0.00174364
0.093005941	0.085565466	2	2028	0.00479397	No Reduction	No Reduction	No Reduction	9.3006E-05	8.5565E-05
No Reduction	No Reduction	330	2029	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1610	2029	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1152	2029	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	222	2029	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	370	2029	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
0.486528525	0.447606246	91	2029	1.17589141	No Reduction	No Reduction	No Reduction	0.02213705	0.02036608
0.359969634	0.331172066	56	2029	0.53475548	No Reduction	No Reduction	No Reduction	0.01007915	0.00927282
0.201262119	0.185161149	25	2029	0.13331642	No Reduction	No Reduction	No Reduction	0.00251578	0.00231451
0.367574615	0.338168649	38	2029	0.36979596	No Reduction	No Reduction	No Reduction	0.00698392	0.0064252
0.408451693	0.375775555	33	2029	0.35653897	No Reduction	No Reduction	No Reduction	0.00673945	0.0062003
0.616735234	0.567396414	31	2029	0.49539997	No Reduction	No Reduction	No Reduction	0.0095594	0.00879464
1.020346129	0.938718441	41	2029	1.08348965	No Reduction	No Reduction	No Reduction	0.0209171	0.01924373
1.131883682	1.041332985	37	2029	1.08429177	No Reduction	No Reduction	No Reduction	0.02093985	0.01926466
0.377226817	0.347048672	10	2029	0.09763838	No Reduction	No Reduction	No Reduction	0.00188613	0.00173524
0.092560366	0.085155537	2	2029	0.00479042	No Reduction	No Reduction	No Reduction	9.256E-05	8.5156E-05
No Reduction	No Reduction	330	2030	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1613	2030	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1153	2030	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	223	2030	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	371	2030	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
0.485808453	0.44694378	91	2030	1.17415107	No Reduction	No Reduction	No Reduction	0.02210428	0.02033594

No Reduction	1604	No Reduction	No Reduction	2027
No Reduction	1148	No Reduction	No Reduction	2027
No Reduction	222	No Reduction	No Reduction	2027
No Reduction	369	No Reduction	No Reduction	2027
1.203576582	91	0.013226116	92.23893496	2027
0.547312315	56	0.009773434	68.15993011	2027
0.13643854	25	0.005457542	38.06089499	2027
0.378440746	38	0.009958967	69.45383589	2027
0.364857684	33	0.011056293	77.10659047	2027
0.506219673	31	0.016329667	113.8830967	2027
1.107130431	41	0.027003181	188.3201859	2027
1.107932924	37	0.029944133	208.8303842	2027
0.099765943	10	0.009976594	69.57676845	2027
0.004894759	2	0.00244738	17.06802495	2027
No Reduction	329	No Reduction	No Reduction	2028
No Reduction	1608	No Reduction	No Reduction	2028
No Reduction	1150	No Reduction	No Reduction	2028
No Reduction	222	No Reduction	No Reduction	2028
No Reduction	369	No Reduction	No Reduction	2028
1.200273123	91	0.013189815	91.9857666	2028
0.545836577	56	0.009747082	67.97614802	2028
0.13607727	25	0.005443091	37.96011536	2028
0.377450948	38	0.00993292	69.27218192	2028
0.363916278	33	0.011027766	76.90764018	2028
0.505389666	31	0.016302892	113.6963721	2028
1.105334209	41	0.026959371	188.014653	2028
1.106149597	37	0.029895935	208.4942511	2028
0.099606415	10	0.009960642	69.46551412	2028
0.004886973	2	0.002443487	17.04087638	2028
No Reduction	330	No Reduction	No Reduction	2029
No Reduction	1610	No Reduction	No Reduction	2029
No Reduction	1152	No Reduction	No Reduction	2029
No Reduction	222	No Reduction	No Reduction	2029
No Reduction	370	No Reduction	No Reduction	2029
1.198028461	91	0.013165148	91.81374165	2029
0.544834632	56	0.00972919	67.85137008	2029
0.135832193	25	0.005433288	37.89174848	2029
0.376779875	38	0.00991526	69.14902225	2029
0.363278425	33	0.011008437	76.77284041	2029
0.504959365	31	0.016289012	113.5995681	2029
1.104406747	41	0.02693675	187.856894	2029
1.105231622	37	0.029871125	208.3212252	2029
0.09952451	10	0.009952451	69.40839342	2029
0.004882984	2	0.002441492	17.02696665	2029
No Reduction	330	No Reduction	No Reduction	2030
No Reduction	1613	No Reduction	No Reduction	2030
No Reduction	1153	No Reduction	No Reduction	2030
No Reduction	223	No Reduction	No Reduction	2030
No Reduction	371	No Reduction	No Reduction	2030
1.196255356	91	0.013145663	91.6778555	2030

	7000	0.58%	No Reduct	No Reduct	No Reduct	0.51%	0.51%	2030	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2030	8000	0.26%	No Reduct	No Reduct	No Reduct	0.23%	0.23%	2030	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.40%	No Reduct	No Reduct	No Reduct	0.35%	0.35%	2030	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.34%	No Reduct	No Reduct	No Reduct	0.30%	0.30%	2030	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.34%	No Reduct	No Reduct	No Reduct	0.31%	0.31%	2030	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.45%	No Reduct	No Reduct	No Reduct	0.40%	0.40%	2030	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.40%	No Reduct	No Reduct	No Reduct	0.37%	0.37%	2030	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.11%	No Reduct	No Reduct	No Reduct	0.10%	0.10%	2030	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.02%	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2030	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2031	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2031	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2031	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2031	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2031	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.94%	No Reduct	No Reduct	No Reduct	0.83%	0.83%	2031	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.58%	No Reduct	No Reduct	No Reduct	0.51%	0.51%	2031	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2031	8000	0.26%	No Reduct	No Reduct	No Reduct	0.23%	0.23%	2031	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.40%	No Reduct	No Reduct	No Reduct	0.35%	0.35%	2031	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.34%	No Reduct	No Reduct	No Reduct	0.30%	0.30%	2031	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.35%	No Reduct	No Reduct	No Reduct	0.32%	0.32%	2031	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.44%	No Reduct	No Reduct	No Reduct	0.40%	0.40%	2031	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.40%	No Reduct	No Reduct	No Reduct	0.37%	0.37%	2031	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.11%	No Reduct	No Reduct	No Reduct	0.10%	0.10%	2031	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.02%	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2031	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2032	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2032	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2032	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2032	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2032	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.94%	No Reduct	No Reduct	No Reduct	0.83%	0.83%	2032	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.58%	No Reduct	No Reduct	No Reduct	0.51%	0.51%	2032	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2032	8000	0.26%	No Reduct	No Reduct	No Reduct	0.23%	0.23%	2032	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.40%	No Reduct	No Reduct	No Reduct	0.35%	0.35%	2032	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.34%	No Reduct	No Reduct	No Reduct	0.30%	0.30%	2032	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.35%	No Reduct	No Reduct	No Reduct	0.31%	0.31%	2032	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.44%	No Reduct	No Reduct	No Reduct	0.40%	0.40%	2032	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.40%	No Reduct	No Reduct	No Reduct	0.36%	0.36%	2032	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.11%	No Reduct	No Reduct	No Reduct	0.10%	0.10%	2032	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.02%	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2032	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2033	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2033	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2033	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2033	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2033	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.94%	No Reduct	No Reduct	No Reduct	0.83%	0.83%	2033	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.58%	No Reduct	No Reduct	No Reduct	0.51%	0.51%	2033	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2033	8000	0.27%	No Reduct	No Reduct	No Reduct	0.24%	0.24%	2033	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.40%	No Reduct	No Reduct	No Reduct	0.35%	0.35%	2033	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.34%	No Reduct	No Reduct	No Reduct	0.30%	0.30%	2033	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.35%	No Reduct	No Reduct	No Reduct	0.31%	0.31%	2033	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126

4747.390168	5.585171161	70.21595899	64.59868227	2030	007000	Construction	C.1 Well Drilling	19.07014406	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2030	008000	Construction	C.1 Well Drilling	10.64952842	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2030	009000	Construction	C.1 Well Drilling	19.43413956	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2030	010000	Construction	C.1 Well Drilling	21.57644164	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2030	011000	Construction	C.1 Well Drilling	31.91398496	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2030	012000	Construction	C.1 Well Drilling	52.77493002	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2030	013000	Construction	C.1 Well Drilling	58.52362166	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2030	014000	Construction	C.1 Well Drilling	19.49877388	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2030	015000	Construction	C.1 Well Drilling	4.783334124	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2031	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2031	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2031	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2031	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2031	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2031	006000	Construction	C.1 Well Drilling	25.76738181	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2031	007000	Construction	C.1 Well Drilling	19.04196158	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2031	008000	Construction	C.1 Well Drilling	10.6337902	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2031	009000	Construction	C.1 Well Drilling	19.40541915	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2031	010000	Construction	C.1 Well Drilling	21.54455527	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2031	011000	Construction	C.1 Well Drilling	32.89478342	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2031	012000	Construction	C.1 Well Drilling	52.69693751	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2031	013000	Construction	C.1 Well Drilling	58.43713355	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2031	014000	Construction	C.1 Well Drilling	19.46995796	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2031	015000	Construction	C.1 Well Drilling	4.776265158	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2032	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2032	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2032	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2032	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2032	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2032	006000	Construction	C.1 Well Drilling	25.72935813	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2032	007000	Construction	C.1 Well Drilling	19.01386228	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2032	008000	Construction	C.1 Well Drilling	10.61809843	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2032	009000	Construction	C.1 Well Drilling	19.37678351	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2032	010000	Construction	C.1 Well Drilling	21.51276301	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2032	011000	Construction	C.1 Well Drilling	32.84624218	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2032	012000	Construction	C.1 Well Drilling	52.61917518	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2032	013000	Construction	C.1 Well Drilling	58.35090069	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2032	014000	Construction	C.1 Well Drilling	19.44122708	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2032	015000	Construction	C.1 Well Drilling	4.769217054	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2033	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2033	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2033	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2033	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2033	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2033	006000	Construction	C.1 Well Drilling	25.69775735	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2033	007000	Construction	C.1 Well Drilling	18.99050946	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2033	008000	Construction	C.1 Well Drilling	11.02925958	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2033	009000	Construction	C.1 Well Drilling	19.35298496	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2033	010000	Construction	C.1 Well Drilling	21.48634104	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2033	011000	Construction	C.1 Well Drilling	32.80590044	No Reduction	No Reduction	No Reduction

0.359436872	0.330681925	56	2030	0.53396403	No Reduction	No Reduction	No Reduction	0.01006423	0.00925909
0.200964247	0.184887107	25	2030	0.13311911	No Reduction	No Reduction	No Reduction	0.00251205	0.00231109
0.367030597	0.337668152	38	2030	0.36924865	No Reduction	No Reduction	No Reduction	0.00697358	0.00641569
0.407847176	0.375219399	33	2030	0.35601129	No Reduction	No Reduction	No Reduction	0.00672948	0.00619112
0.615822453	0.566556656	31	2030	0.49466677	No Reduction	No Reduction	No Reduction	0.00954525	0.00878163
1.018835997	0.937329119	41	2030	1.08188607	No Reduction	No Reduction	No Reduction	0.02088614	0.01921525
1.130208472	1.039791792	37	2030	1.082687	No Reduction	No Reduction	No Reduction	0.02090886	0.01923615
0.376668514	0.346535033	10	2030	0.09749387	No Reduction	No Reduction	No Reduction	0.00188334	0.00173268
0.092423375	0.085029505	2	2030	0.00478333	No Reduction	No Reduction	No Reduction	9.2423E-05	8.503E-05
No Reduction	No Reduction	330	2031	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1616	2031	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1155	2031	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	223	2031	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	371	2031	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
0.48509051	0.446283272	91	2031	1.17241587	No Reduction	No Reduction	No Reduction	0.02207162	0.02030589
0.358905685	0.330193232	56	2031	0.53317492	No Reduction	No Reduction	No Reduction	0.01004936	0.00924541
0.200667256	0.184613875	25	2031	0.13292238	No Reduction	No Reduction	No Reduction	0.00250834	0.00230767
0.366488188	0.337169135	38	2031	0.36870296	No Reduction	No Reduction	No Reduction	0.00696328	0.00640621
0.407244447	0.374664888	33	2031	0.35548516	No Reduction	No Reduction	No Reduction	0.00671953	0.00618197
0.634748254	0.583968392	32	2031	0.52631653	No Reduction	No Reduction	No Reduction	0.01015597	0.00934349
1.017330328	0.935943904	41	2031	1.08028722	No Reduction	No Reduction	No Reduction	0.02085527	0.01918685
1.128538213	1.038255154	37	2031	1.08108697	No Reduction	No Reduction	No Reduction	0.02087796	0.01920772
0.376111861	0.346022912	10	2031	0.09734979	No Reduction	No Reduction	No Reduction	0.00188056	0.00173011
0.092286788	0.084903845	2	2031	0.00477627	No Reduction	No Reduction	No Reduction	9.2287E-05	8.4904E-05
No Reduction	No Reduction	332	2032	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1617	2032	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1157	2032	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	224	2032	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	371	2032	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
0.484374685	0.445624713	91	2032	1.17068579	No Reduction	No Reduction	No Reduction	0.02203905	0.02027592
0.358376065	0.329705982	56	2032	0.53238814	No Reduction	No Reduction	No Reduction	0.01003453	0.00923177
0.200371141	0.184341449	25	2032	0.13272623	No Reduction	No Reduction	No Reduction	0.00250464	0.00230427
0.365947379	0.336671591	38	2032	0.36815889	No Reduction	No Reduction	No Reduction	0.006953	0.00639676
0.406643496	0.374112013	33	2032	0.35496059	No Reduction	No Reduction	No Reduction	0.00670962	0.00617285
0.633811586	0.583106658	32	2032	0.52553987	No Reduction	No Reduction	No Reduction	0.01014099	0.00932971
1.015829103	0.934562777	41	2032	1.07869309	No Reduction	No Reduction	No Reduction	0.0208245	0.01915854
1.126872884	1.036723051	37	2032	1.07949166	No Reduction	No Reduction	No Reduction	0.02084715	0.01917938
0.375556851	0.345512303	10	2032	0.09720614	No Reduction	No Reduction	No Reduction	0.00187778	0.00172756
0.092150605	0.084778557	2	2032	0.00476922	No Reduction	No Reduction	No Reduction	9.2151E-05	8.4779E-05
No Reduction	No Reduction	332	2033	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1617	2033	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1159	2033	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	224	2033	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	372	2033	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
0.483779776	0.445077397	91	2033	1.16924796	No Reduction	No Reduction	No Reduction	0.02201198	0.02025102
0.357935908	0.329301038	56	2033	0.53173426	No Reduction	No Reduction	No Reduction	0.01002221	0.00922043
0.208130047	0.191479643	26	2033	0.14338037	No Reduction	No Reduction	No Reduction	0.00270569	0.00248924
0.365497922	0.336258091	38	2033	0.36770671	No Reduction	No Reduction	No Reduction	0.00694446	0.0063889
0.406144056	0.373652529	33	2033	0.35452463	No Reduction	No Reduction	No Reduction	0.00670138	0.00616527
0.633033139	0.582390487	32	2033	0.52489441	No Reduction	No Reduction	No Reduction	0.01012853	0.00931825

0.544028266	56	0.00971479	67.75094871	2030
0.135631158	25	0.005425246	37.83566794	2030
0.376222233	38	0.009900585	69.04668033	2030
0.362740765	33	0.010992144	76.65921509	2030
0.504212015	31	0.016264904	113.4314385	2030
1.102772203	41	0.026896883	187.5788621	2030
1.103595858	37	0.029826915	208.0129057	2030
0.099377212	10	0.009937721	69.30566762	2030
0.004875757	2	0.002437879	17.0017664	2030
No Reduction	330	No Reduction	No Reduction	2031
No Reduction	1616	No Reduction	No Reduction	2031
No Reduction	1155	No Reduction	No Reduction	2031
No Reduction	223	No Reduction	No Reduction	2031
No Reduction	371	No Reduction	No Reduction	2031
1.194487491	91	0.013126236	91.54237098	2031
0.543224283	56	0.009700434	67.65082416	2031
0.135430718	25	0.005417229	37.77975316	2031
0.375666239	38	0.009885954	68.9446409	2031
0.362204695	33	0.0109759	76.54592561	2031
0.536472507	32	0.016764766	116.917477	2031
1.101142491	41	0.026857134	187.3016519	2031
1.101964928	37	0.029782836	207.7054974	2031
0.099230349	10	0.009923035	69.20324546	2031
0.004868552	2	0.002434276	16.97664064	2031
No Reduction	332	No Reduction	No Reduction	2032
No Reduction	1617	No Reduction	No Reduction	2032
No Reduction	1157	No Reduction	No Reduction	2032
No Reduction	224	No Reduction	No Reduction	2032
No Reduction	371	No Reduction	No Reduction	2032
1.192724843	91	0.013106866	91.40728632	2032
0.542422674	56	0.009686119	67.5509951	2032
0.13523087	25	0.005409235	37.72400341	2032
0.375111887	38	0.009871365	68.84290262	2032
0.361670207	33	0.010959703	76.43297048	2032
0.53568086	32	0.016740027	116.7449475	2032
1.099517588	41	0.026817502	187.0252599	2032
1.100338811	37	0.029738887	207.3989965	2032
0.09908392	10	0.009908392	69.10112557	2032
0.004861368	2	0.002430684	16.95158903	2032
No Reduction	332	No Reduction	No Reduction	2033
No Reduction	1617	No Reduction	No Reduction	2033
No Reduction	1159	No Reduction	No Reduction	2033
No Reduction	224	No Reduction	No Reduction	2033
No Reduction	372	No Reduction	No Reduction	2033
1.191259939	91	0.013090769	91.29501995	2033
0.54175647	56	0.009674223	67.46802901	2033
0.146086065	26	0.005618695	39.18477764	2033
0.374651175	38	0.009859241	68.7583498	2033
0.361226004	33	0.010946243	76.33909555	2033
0.535022937	32	0.016719467	116.6015614	2033

	12000	0.45%	No Reduct	No Reduct	No Reduct	0.41%	0.41%	2033	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.40%	No Reduct	No Reduct	No Reduct	0.36%	0.36%	2033	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.11%	No Reduct	No Reduct	No Reduct	0.10%	0.10%	2033	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.02%	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2033	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2034	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2034	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2034	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2034	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2034	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.94%	No Reduct	No Reduct	No Reduct	0.82%	0.82%	2034	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.58%	No Reduct	No Reduct	No Reduct	0.51%	0.51%	2034	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2034	8000	0.27%	No Reduct	No Reduct	No Reduct	0.24%	0.24%	2034	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.39%	No Reduct	No Reduct	No Reduct	0.35%	0.35%	2034	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.34%	No Reduct	No Reduct	No Reduct	0.30%	0.30%	2034	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.35%	No Reduct	No Reduct	No Reduct	0.31%	0.31%	2034	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.45%	No Reduct	No Reduct	No Reduct	0.41%	0.41%	2034	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.40%	No Reduct	No Reduct	No Reduct	0.36%	0.36%	2034	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.11%	No Reduct	No Reduct	No Reduct	0.10%	0.10%	2034	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.02%	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2034	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2035	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2035	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2035	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2035	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2035	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.94%	No Reduct	No Reduct	No Reduct	0.82%	0.82%	2035	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.58%	No Reduct	No Reduct	No Reduct	0.51%	0.51%	2035	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2035	8000	0.27%	No Reduct	No Reduct	No Reduct	0.24%	0.24%	2035	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.39%	No Reduct	No Reduct	No Reduct	0.35%	0.35%	2035	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.34%	No Reduct	No Reduct	No Reduct	0.30%	0.30%	2035	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.34%	No Reduct	No Reduct	No Reduct	0.31%	0.31%	2035	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.45%	No Reduct	No Reduct	No Reduct	0.41%	0.41%	2035	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.40%	No Reduct	No Reduct	No Reduct	0.36%	0.36%	2035	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.11%	No Reduct	No Reduct	No Reduct	0.10%	0.10%	2035	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.02%	No Reduct	No Reduct	No Reduct	0.02%	0.02%	2035	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176

16846.89225	19.81478506	251.5875537	231.4605494	2033	012000	Construction	C.1 Well Drilling	53.83636659	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2033	013000	Construction	C.1 Well Drilling	58.27923415	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2033	014000	Construction	C.1 Well Drilling	19.41734937	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2033	015000	Construction	C.1 Well Drilling	4.763359504	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2034	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2034	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2034	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2034	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2034	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2034	006000	Construction	C.1 Well Drilling	25.65993872	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2034	007000	Construction	C.1 Well Drilling	18.96256169	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2034	008000	Construction	C.1 Well Drilling	11.01302815	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2034	009000	Construction	C.1 Well Drilling	19.32450374	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2034	010000	Construction	C.1 Well Drilling	21.45472023	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2034	011000	Construction	C.1 Well Drilling	32.75762097	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2034	012000	Construction	C.1 Well Drilling	53.75713721	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2034	013000	Construction	C.1 Well Drilling	58.19346633	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2034	014000	Construction	C.1 Well Drilling	19.38877344	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2034	015000	Construction	C.1 Well Drilling	4.756349409	No Reduction	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2035	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2035	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2035	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2035	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2035	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2035	006000	Construction	C.1 Well Drilling	25.62223124	No Reduction	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2035	007000	Construction	C.1 Well Drilling	18.93469606	No Reduction	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2035	008000	Construction	C.1 Well Drilling	10.99684442	No Reduction	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2035	009000	Construction	C.1 Well Drilling	19.29610624	No Reduction	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2035	010000	Construction	C.1 Well Drilling	21.42319236	No Reduction	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2035	011000	Construction	C.1 Well Drilling	32.70948339	No Reduction	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2035	012000	Construction	C.1 Well Drilling	53.67814068	No Reduction	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2035	013000	Construction	C.1 Well Drilling	58.10795058	No Reduction	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2035	014000	Construction	C.1 Well Drilling	19.36028149	No Reduction	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2035	015000	Construction	C.1 Well Drilling	4.749359917	No Reduction	No Reduction	No Reduction

1.039327351	0.956181165	42	2033	1.1305637	No Reduction	No Reduction	No Reduction	0.02182587	0.0200798
1.125488859	1.035449748	37	2033	1.07816583	No Reduction	No Reduction	No Reduction	0.02082154	0.01915582
0.375095592	0.345087945	10	2033	0.09708675	No Reduction	No Reduction	No Reduction	0.00187548	0.00172544
0.092037426	0.084674432	2	2033	0.00476336	No Reduction	No Reduction	No Reduction	9.2037E-05	8.4674E-05
No Reduction	No Reduction	333	2034	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1620	2034	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1161	2034	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	224	2034	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	372	2034	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
0.483067812	0.44442239	91	2034	1.16752721	No Reduction	No Reduction	No Reduction	0.02197959	0.02022122
0.357409144	0.328816415	56	2034	0.53095173	No Reduction	No Reduction	No Reduction	0.01000746	0.00920686
0.207823748	0.191197848	26	2034	0.14316937	No Reduction	No Reduction	No Reduction	0.00270171	0.00248557
0.36496003	0.33576323	38	2034	0.36716557	No Reduction	No Reduction	No Reduction	0.00693424	0.0063795
0.405546346	0.373102636	33	2034	0.35400288	No Reduction	No Reduction	No Reduction	0.00669151	0.00615619
0.632101523	0.5815334	32	2034	0.52412194	No Reduction	No Reduction	No Reduction	0.01011362	0.00930453
1.037797804	0.954773982	42	2034	1.12889988	No Reduction	No Reduction	No Reduction	0.02179375	0.02005025
1.123832511	1.033925907	37	2034	1.07657913	No Reduction	No Reduction	No Reduction	0.0207909	0.01912763
0.374543575	0.344580089	10	2034	0.09694387	No Reduction	No Reduction	No Reduction	0.00187272	0.0017229
0.091901977	0.084549819	2	2034	0.00475635	No Reduction	No Reduction	No Reduction	9.1902E-05	8.455E-05
No Reduction	No Reduction	333	2035	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1623	2035	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1163	2035	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	224	2035	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	373	2035	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
0.48235794	0.443769308	91	2035	1.16581152	No Reduction	No Reduction	No Reduction	0.02194729	0.0201915
0.356883928	0.328333217	56	2035	0.53017149	No Reduction	No Reduction	No Reduction	0.00999275	0.00919333
0.207518349	0.190916881	26	2035	0.14295898	No Reduction	No Reduction	No Reduction	0.00269774	0.00248192
0.364423718	0.335269824	38	2035	0.36662602	No Reduction	No Reduction	No Reduction	0.00692405	0.00637013
0.404950393	0.372554358	33	2035	0.35348267	No Reduction	No Reduction	No Reduction	0.00668168	0.00614715
0.631172645	0.580678832	32	2035	0.52335173	No Reduction	No Reduction	No Reduction	0.01009876	0.00929086
1.036272752	0.953370934	42	2035	1.12724095	No Reduction	No Reduction	No Reduction	0.02176173	0.02002079
1.12218103	1.032406545	37	2035	1.07499709	No Reduction	No Reduction	No Reduction	0.02076035	0.01909952
0.373993181	0.344073726	10	2035	0.09680141	No Reduction	No Reduction	No Reduction	0.00186997	0.00172037
0.091766926	0.084425573	2	2035	0.00474936	No Reduction	No Reduction	No Reduction	9.1767E-05	8.4426E-05

1.152389573	42	0.027437847	191.3515448	2033
1.098987376	37	0.029702362	207.1442691	2033
0.098962225	10	0.009896222	69.0162556	2033
0.004855397	2	0.002427698	16.93076909	2033
No Reduction	333	No Reduction	No Reduction	2034
No Reduction	1620	No Reduction	No Reduction	2034
No Reduction	1161	No Reduction	No Reduction	2034
No Reduction	224	No Reduction	No Reduction	2034
No Reduction	372	No Reduction	No Reduction	2034
1.189506797	91	0.013071503	91.16066377	2034
0.540959183	56	0.009659985	67.36873831	2034
0.145871075	26	0.005610426	39.12711056	2034
0.374099812	38	0.009844732	68.65716018	2034
0.360694399	33	0.010930133	76.22674956	2034
0.53423556	32	0.016694861	116.4299623	2034
1.150693635	42	0.027397468	191.0699384	2034
1.097370029	37	0.029658649	206.8394211	2034
0.098816585	10	0.009881659	68.91468642	2034
0.004848251	2	0.002424126	16.90585258	2034
No Reduction	333	No Reduction	No Reduction	2035
No Reduction	1623	No Reduction	No Reduction	2035
No Reduction	1163	No Reduction	No Reduction	2035
No Reduction	224	No Reduction	No Reduction	2035
No Reduction	373	No Reduction	No Reduction	2035
1.187758808	91	0.013052295	91.02670247	2035
0.54016424	56	0.00964579	67.26973943	2035
0.145656716	26	0.005602181	39.06961297	2035
0.373550069	38	0.009830265	68.55626795	2035
0.360164355	33	0.010914071	76.11473377	2035
0.533450497	32	0.016670328	116.2588676	2035
1.149002682	42	0.027357207	190.7891596	2035
1.095757435	37	0.029615066	206.5354689	2035
0.098671373	10	0.009867137	68.81341576	2035
0.004841127	2	0.002420563	16.8810093	2035

Final % Reduction

		NOXTON	ROGTON	COTON	SOXTON	PM10TON	PM25TON
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
	6000	0.86%	0.65%	No Reduct	No Reduct	1.09%	1.09%
	7000	0.55%	0.42%	No Reduct	No Reduct	0.70%	0.70%
2012	8000	0.29%	0.22%	No Reduct	No Reduct	0.37%	0.37%
	9000	0.41%	0.31%	No Reduct	No Reduct	0.53%	0.53%
	10000	0.26%	0.20%	No Reduct	No Reduct	0.34%	0.34%
	11000	0.32%	0.25%	No Reduct	No Reduct	0.43%	0.43%
	12000	0.35%	0.27%	No Reduct	No Reduct	0.46%	0.46%
	13000	0.26%	0.20%	No Reduct	No Reduct	0.34%	0.34%
	14000	0.08%	0.06%	No Reduct	No Reduct	0.10%	0.10%
	15000	0.01%	0.01%	No Reduct	No Reduct	0.02%	0.02%
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
	6000	0.95%	0.72%	No Reduct	No Reduct	1.20%	1.20%
	7000	0.59%	0.44%	No Reduct	No Reduct	0.74%	0.74%
2015	8000	0.27%	0.20%	No Reduct	No Reduct	0.34%	0.34%
	9000	0.39%	0.30%	No Reduct	No Reduct	0.50%	0.50%
	10000	0.35%	0.27%	No Reduct	No Reduct	0.45%	0.45%
	11000	0.34%	0.27%	No Reduct	No Reduct	0.45%	0.45%
	12000	0.45%	0.35%	No Reduct	No Reduct	0.60%	0.60%
	13000	0.40%	0.31%	No Reduct	No Reduct	0.53%	0.53%
	14000	0.11%	0.09%	No Reduct	No Reduct	0.15%	0.15%
	15000	0.02%	0.02%	No Reduct	No Reduct	0.03%	0.03%
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction
	6000	0.94%	0.72%	No Reduct	No Reduct	1.20%	1.20%
	7000	0.58%	0.44%	No Reduct	No Reduct	0.74%	0.74%
2016	8000	0.27%	0.20%	No Reduct	No Reduct	0.34%	0.34%
	9000	0.39%	0.30%	No Reduct	No Reduct	0.50%	0.50%
	10000	0.35%	0.27%	No Reduct	No Reduct	0.45%	0.45%
	11000	0.34%	0.27%	No Reduct	No Reduct	0.45%	0.45%
	12000	0.45%	0.35%	No Reduct	No Reduct	0.60%	0.60%
	13000	0.40%	0.31%	No Reduct	No Reduct	0.53%	0.53%
	14000	0.11%	0.09%	No Reduct	No Reduct	0.15%	0.15%
	15000	0.02%	0.02%	No Reduct	No Reduct	0.03%	0.03%
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction

Drilling Emissions in Lbs/Well Drilled

CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB
2012	001000	Construction	C.1 Well Drilling	889.3949598	52.74499254
2012	002000	Construction	C.1 Well Drilling	1165.785878	68.6565032
2012	003000	Construction	C.1 Well Drilling	1442.176795	84.56801385
2012	004000	Construction	C.1 Well Drilling	1718.567713	100.4795245
2012	005000	Construction	C.1 Well Drilling	2271.349549	132.3025458
2012	006000	Construction	C.1 Well Drilling	5143.498427	247.3684469
2012	007000	Construction	C.1 Well Drilling	6160.153671	295.8400441
2012	008000	Construction	C.1 Well Drilling	7685.136537	368.54744
2012	009000	Construction	C.1 Well Drilling	9210.119402	441.2548359
2012	010000	Construction	C.1 Well Drilling	11751.75751	562.433829
2012	011000	Construction	C.1 Well Drilling	17376.84905	812.3437041
2012	012000	Construction	C.1 Well Drilling	21706.00576	1014.177015
2012	013000	Construction	C.1 Well Drilling	26653.61343	1244.843656
2012	014000	Construction	C.1 Well Drilling	32838.12301	1533.176957
2012	015000	Construction	C.1 Well Drilling	40259.53452	1879.176919
2015	001000	Construction	C.1 Well Drilling	802.5835351	48.79234205
2015	002000	Construction	C.1 Well Drilling	1051.798768	63.53247208
2015	003000	Construction	C.1 Well Drilling	1301.014	78.27260212
2015	004000	Construction	C.1 Well Drilling	1550.229233	93.01273216
2015	005000	Construction	C.1 Well Drilling	2048.659698	122.4929922
2015	006000	Construction	C.1 Well Drilling	5123.472228	266.380754
2015	007000	Construction	C.1 Well Drilling	6137.179107	318.7425144
2015	008000	Construction	C.1 Well Drilling	7657.739424	397.285155
2015	009000	Construction	C.1 Well Drilling	9178.299741	475.8277956
2015	010000	Construction	C.1 Well Drilling	11712.56694	606.7321966
2015	011000	Construction	C.1 Well Drilling	17402.30073	885.5183604
2015	012000	Construction	C.1 Well Drilling	21739.14145	1105.754963
2015	013000	Construction	C.1 Well Drilling	26695.53085	1357.453936
2015	014000	Construction	C.1 Well Drilling	32891.01759	1672.077654
2015	015000	Construction	C.1 Well Drilling	40325.60169	2049.626115
2016	001000	Construction	C.1 Well Drilling	763.3389208	46.54759315
2016	002000	Construction	C.1 Well Drilling	1000.28455	60.61695792
2016	003000	Construction	C.1 Well Drilling	1237.23018	74.68632269
2016	004000	Construction	C.1 Well Drilling	1474.175809	88.75568746
2016	005000	Construction	C.1 Well Drilling	1948.067068	116.894417
2016	006000	Construction	C.1 Well Drilling	5042.783384	260.999804
2016	007000	Construction	C.1 Well Drilling	6040.839654	312.331865
2016	008000	Construction	C.1 Well Drilling	7537.924059	389.3299566
2016	009000	Construction	C.1 Well Drilling	9035.008464	466.3280481
2016	010000	Construction	C.1 Well Drilling	11530.14914	594.6582007
2016	011000	Construction	C.1 Well Drilling	17169.76603	870.1619411
2016	012000	Construction	C.1 Well Drilling	21449.08203	1086.617552
2016	013000	Construction	C.1 Well Drilling	26339.72888	1333.995392
2016	014000	Construction	C.1 Well Drilling	32453.03745	1643.217693
2016	015000	Construction	C.1 Well Drilling	39789.00774	2014.284454
2017	001000	Construction	C.1 Well Drilling	719.1407087	43.99990232

Amount of Drilling Emissions Reduced in Changing >-750hp Engines to Tier 4f in Lbs/Well Drilled

COLB	SOXLB	PM10LB	PM25LB	CALYEAR	SITE	ACTIVITY	PHASE	NOXLB	ROGLB	COLB	SOXLB
650.4930445	0.766405804	40.20745903	36.99086231	2012	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	52.13380846	47.96310378	2012	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	64.06015789	58.93534526	2012	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	75.98650732	69.90758673	2012	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	99.83920617	91.85206968	2012	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	182.7774876	168.1552886	2012	006000	Construction	C.1 Well Drilling	44.07540793	1.60896172	No Reduction	No Reduction
4747.390168	5.585171161	218.447303	200.9715188	2012	007000	Construction	C.1 Well Drilling	33.72171827	1.230569227	No Reduction	No Reduction
5925.543293	6.971121135	271.9520261	250.195864	2012	008000	Construction	C.1 Well Drilling	22.03043759	0.803646977	No Reduction	No Reduction
7103.696418	8.357071108	325.4567491	299.4202092	2012	009000	Construction	C.1 Well Drilling	37.92647623	1.383188205	No Reduction	No Reduction
9067.284959	10.66698773	414.6312876	381.4607846	2012	010000	Construction	C.1 Well Drilling	30.83549265	1.124285698	No Reduction	No Reduction
13484.46933	15.8601023	592.2478825	544.8680519	2012	011000	Construction	C.1 Well Drilling	56.32733322	2.042204442	No Reduction	No Reduction
16846.89225	19.81478506	739.2027504	680.0665304	2012	012000	Construction	C.1 Well Drilling	76.03720163	2.756421343	No Reduction	No Reduction
20689.6613	24.3344225	907.1511709	834.5790772	2012	013000	Construction	C.1 Well Drilling	69.19469124	2.508112948	No Reduction	No Reduction
25493.12261	29.9839693	1117.086697	1027.719761	2012	014000	Construction	C.1 Well Drilling	25.58497086	0.92730348	No Reduction	No Reduction
31257.27618	36.76342545	1369.009327	1259.488581	2012	015000	Construction	C.1 Well Drilling	5.229474396	0.189524478	No Reduction	No Reduction
650.4930445	0.766405804	36.05112075	33.16703109	2015	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	46.72603737	42.98795438	2015	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	57.40095398	52.80887767	2015	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	68.0758706	62.62980095	2015	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	89.42570384	82.27164753	2015	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	183.9929422	169.2735068	2015	006000	Construction	C.1 Well Drilling	48.43353471	1.911385569	No Reduction	No Reduction
4747.390168	5.585171161	219.9862565	202.387356	2015	007000	Construction	C.1 Well Drilling	35.91700327	1.417431999	No Reduction	No Reduction
5925.543293	6.971121135	273.9762279	252.0581296	2015	008000	Construction	C.1 Well Drilling	20.40738822	0.805359081	No Reduction	No Reduction
7103.696418	8.357071108	327.9661993	301.7289033	2015	009000	Construction	C.1 Well Drilling	36.24352149	1.430317738	No Reduction	No Reduction
9067.284959	10.66698773	417.9494849	384.5135261	2015	010000	Construction	C.1 Well Drilling	41.30455376	1.630046795	No Reduction	No Reduction
13484.46933	15.8601023	602.454831	554.2584445	2015	011000	Construction	C.1 Well Drilling	59.82457887	2.360922802	No Reduction	No Reduction
16846.89225	19.81478506	752.061946	691.8969903	2015	012000	Construction	C.1 Well Drilling	98.90353765	3.903138515	No Reduction	No Reduction
20689.6613	24.3344225	923.041506	849.1981855	2015	013000	Construction	C.1 Well Drilling	106.6917605	4.21049368	No Reduction	No Reduction
25493.12261	29.9839693	1136.765956	1045.82468	2015	014000	Construction	C.1 Well Drilling	36.52883272	1.441577292	No Reduction	No Reduction
31257.27618	36.76342545	1393.235296	1281.776472	2015	015000	Construction	C.1 Well Drilling	8.959902365	0.35359443	No Reduction	No Reduction
650.4930445	0.766405804	33.77182493	31.07007894	2016	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	43.76261426	40.26160512	2016	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	53.7534036	49.45313131	2016	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	63.74419293	58.64465749	2016	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	83.72577159	77.02770987	2016	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	178.7846588	164.4818861	2016	006000	Construction	C.1 Well Drilling	47.62273078	1.870888232	No Reduction	No Reduction
4747.390168	5.585171161	213.7816992	196.6791633	2016	007000	Construction	C.1 Well Drilling	35.31756942	1.387524743	No Reduction	No Reduction
5925.543293	6.971121135	266.2772598	244.975079	2016	008000	Construction	C.1 Well Drilling	20.06784802	0.788437455	No Reduction	No Reduction
7103.696418	8.357071108	318.7728203	293.2709947	2016	009000	Construction	C.1 Well Drilling	35.64174168	1.400349554	No Reduction	No Reduction
9067.284959	10.66698773	406.2654213	373.7641876	2016	010000	Construction	C.1 Well Drilling	40.62028598	1.595999114	No Reduction	No Reduction
13484.46933	15.8601023	587.6133242	540.6042583	2016	011000	Construction	C.1 Well Drilling	58.96571391	2.317642808	No Reduction	No Reduction
16846.89225	19.81478506	733.5667911	674.8814478	2016	012000	Construction	C.1 Well Drilling	97.48557348	3.831721939	No Reduction	No Reduction
20689.6613	24.3344225	900.3707532	828.3410929	2016	013000	Construction	C.1 Well Drilling	105.1636917	4.133561954	No Reduction	No Reduction
25493.12261	29.9839693	1108.875706	1020.165649	2016	014000	Construction	C.1 Well Drilling	36.00609629	1.415268352	No Reduction	No Reduction
31257.27618	36.76342545	1359.081649	1250.355117	2016	015000	Construction	C.1 Well Drilling	8.831769645	0.347147285	No Reduction	No Reduction
650.4930445	0.766405804	31.39998534	28.88798652	2017	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction

		Wells Drilled Each Year	Amount of Drilling Emissions Reduced in Changing >-750 hp Engines to Tier 4f in tons/year					
PM10LB	PM25LB		CALYEAR	NOXLB	ROGLB	COLB	SOXLB	PM10LB	PM25LB
No Reduction	No Reduction	305	2012	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1414	2012	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	930	2012	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	174	2012	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	300	2012	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
1.987839552	1.8288124	69	2012	1.52060157	0.05550918	No Reduction	No Reduction	0.06858046	0.06309403
1.520532671	1.398890069	44	2012	0.7418778	0.02707252	No Reduction	No Reduction	0.03345172	0.03077558
0.99313711	0.91368614	23	2012	0.25335003	0.00924194	No Reduction	No Reduction	0.01142108	0.01050739
1.709469432	1.57271189	33.00	2012	0.62578686	0.02282261	No Reduction	No Reduction	0.02820625	0.02594975
1.38962017	1.278450547	21	2012	0.32377267	0.011805	No Reduction	No Reduction	0.01459101	0.01342373
2.527502147	2.32530197	25	2012	0.70409167	0.02552756	No Reduction	No Reduction	0.03159378	0.02906627
3.411585304	3.138658487	27	2012	1.02650222	0.03721169	No Reduction	No Reduction	0.0460564	0.04237189
3.104354807	2.856006416	20	2012	0.69194691	0.02508113	No Reduction	No Reduction	0.03104355	0.02856006
1.14777671	1.055954573	6	2012	0.07675491	0.00278191	No Reduction	No Reduction	0.00344333	0.00316786
0.234590144	0.215822933	1	2012	0.00261474	9.4762E-05	No Reduction	No Reduction	0.0001173	0.00010791
No Reduction	No Reduction	323	2015	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1575	2015	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1128	2015	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	218	2015	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	363	2015	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
2.207515888	2.030914631	89	2015	2.15529229	0.08505666	No Reduction	No Reduction	0.09823446	0.0903757
1.637034247	1.506071519	55	2015	0.98771759	0.03897938	No Reduction	No Reduction	0.04501844	0.04141697
0.930133101	0.855722451	25	2015	0.25509235	0.01006699	No Reduction	No Reduction	0.01162666	0.01069653
1.651916389	1.51976309	37.00	2015	0.67050515	0.02646088	No Reduction	No Reduction	0.03056045	0.02811562
1.882589413	1.731982247	33.00	2015	0.68152514	0.02689577	No Reduction	No Reduction	0.03106273	0.02857771
2.726699802	2.508563812	31	2015	0.92728097	0.0365943	No Reduction	No Reduction	0.04226385	0.03888274
4.507850466	4.147222438	41	2015	2.02752252	0.08001434	No Reduction	No Reduction	0.09241093	0.08501806
4.86282405	4.473798115	36	2015	1.92045169	0.07578889	No Reduction	No Reduction	0.08753083	0.08052837
1.664920383	1.531726753	10	2015	0.18264416	0.00720789	No Reduction	No Reduction	0.0083246	0.00765863
0.408376697	0.375706562	2	2015	0.0089599	0.00035359	No Reduction	No Reduction	0.00040838	0.00037571
No Reduction	No Reduction	323	2016	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1577	2016	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1130	2016	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	218	2016	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	363	2016	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
2.142866557	1.971437245	89	2016	2.11921152	0.08325453	No Reduction	No Reduction	0.09535756	0.08772896
1.589259965	1.46211918	55	2016	0.97123316	0.03815693	No Reduction	No Reduction	0.04370465	0.04020828
0.903084732	0.830837952	25	2016	0.2508481	0.00985547	No Reduction	No Reduction	0.01128856	0.01038547
1.603992979	1.475673553	37	2016	0.65937222	0.02590647	No Reduction	No Reduction	0.02967387	0.02729996
1.82811655	1.681867213	33	2016	0.67023472	0.02633399	No Reduction	No Reduction	0.03016392	0.02775081
2.656847783	2.444299955	31	2016	0.91396857	0.03592346	No Reduction	No Reduction	0.04118114	0.03788665
4.392560507	4.041155676	41	2016	1.99845426	0.0785503	No Reduction	No Reduction	0.09004749	0.08284369
4.738609362	4.359520603	36	2016	1.89294645	0.07440412	No Reduction	No Reduction	0.08529497	0.07847137
1.62243566	1.492640808	10	2016	0.18003048	0.00707634	No Reduction	No Reduction	0.00811218	0.0074632
0.39796441	0.366127258	2	2016	0.00883177	0.00034715	No Reduction	No Reduction	0.00039796	0.00036613
No Reduction	No Reduction	323	2017	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction

VERA Emissions (tons/year)	Wells Drilled Each Year	VERA Emissions (tons/year-well)	VERA Fee Reduction	Year
No Reduction	305			
No Reduction	1414			
No Reduction	930			
No Reduction	174			
No Reduction	300			
1.644691218	69			
0.802402044	44			
0.274013049	23			
0.676815709	33.00			
0.350168684	21			
0.761212998	25			
1.109770312	27			
0.74807159	20			
0.082980153	6			
0.002826795	1			
No Reduction	323	No Reduction	No Reduction	2015
No Reduction	1575	No Reduction	No Reduction	2015
No Reduction	1128	No Reduction	No Reduction	2015
No Reduction	218	No Reduction	No Reduction	2015
No Reduction	363	No Reduction	No Reduction	2015
2.338583409	89	0.026276218	183.2503449	2015
1.071715412	55	0.019485735	135.8935142	2015
0.276786005	25	0.01107144	77.21222398	2015
0.727526479	37.00	0.019662878	137.1289098	2015
0.739483634	33.00	0.022408595	156.2775414	2015
1.006139123	31	0.032456101	226.3488466	2015
2.199947796	41	0.053657263	374.2057543	2015
2.083771407	36	0.057882539	403.6728277	2015
0.198176652	10	0.019817665	138.2083971	2015
0.009721873	2	0.004860937	33.90017287	2015
No Reduction	323	No Reduction	No Reduction	2016
No Reduction	1577	No Reduction	No Reduction	2016
No Reduction	1130	No Reduction	No Reduction	2016
No Reduction	218	No Reduction	No Reduction	2016
No Reduction	363	No Reduction	No Reduction	2016
2.297823608	89	0.025818243	180.0564252	2016
1.053094739	55	0.019147177	133.5324129	2016
0.271992128	25	0.010879685	75.87492389	2016
0.714952558	37	0.019323042	134.7588956	2016
0.726732627	33	0.022022201	153.5828285	2016
0.99107317	31	0.031970102	222.9594931	2016
2.167052046	41	0.052854928	368.6102676	2016
2.052645535	36	0.057017932	397.6430545	2016
0.195219002	10	0.0195219	136.1457317	2016
0.009576881	2	0.004788441	33.39458524	2016
No Reduction	323	No Reduction	No Reduction	2017

Amount of Construction - Well Drilling Emissions Reduced ir				
Year	NOX	ROG	CO	SOX
2015	9.82	0.39	0.00	0.00
2016	9.67	0.38	0.00	0.00
2017	9.57	0.37	0.00	0.00
2018	9.26	0.36	0.00	0.00
2019	7.84	0.27	0.00	0.00
2020	7.71	0.26	0.00	0.00
2021	7.62	0.26	0.00	0.00
2022	7.51	0.26	0.00	0.00
2023	7.44	0.26	0.00	0.00
2024	7.49	0.27	0.00	0.00
2025	7.48	0.27	0.00	0.00
2026	5.37	0.20	0.00	0.00
2027	5.35	0.20	0.00	0.00
2028	5.34	0.20	0.00	0.00
2029	5.34	0.21	0.00	0.00
2030	5.33	0.21	0.00	0.00
2031	5.35	0.21	0.00	0.00
2032	5.34	0.21	0.00	0.00
2033	5.40	0.21	0.00	0.00
2034	5.39	0.21	0.00	0.00
2035	5.39	0.21	0.00	0.00

n Changing ≥ 750 hp Engines to Tier 4f		
PM10	PM25	VERA Fee Reduction Per Well
0.45	0.41	$1,866.10
0.44	0.40	$1,836.56
0.43	0.39	$1,818.11
0.40	0.37	$1,756.75
0.30	0.28	$1,475.67
0.29	0.27	$1,449.54
0.28	0.26	$1,433.53
0.27	0.25	$1,412.72
0.26	0.24	$1,398.21
0.26	0.24	$1,397.52
0.26	0.24	$1,392.37
0.15	0.14	$989.95
0.15	0.14	$985.23
0.15	0.14	$983.82
0.15	0.14	$983.13
0.15	0.14	$981.67
0.15	0.14	$984.04
0.15	0.14	$982.59
0.15	0.14	$987.73
0.15	0.14	$986.27
0.15	0.14	$984.83
	Average:	**$1,289.82**

	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2017	002000	Construction	C.1 Well Drilling	942.654357	57.33159172
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2017	003000	Construction	C.1 Well Drilling	1166.168005	70.66328112
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2017	004000	Construction	C.1 Well Drilling	1389.681653	83.99497053
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2017	005000	Construction	C.1 Well Drilling	1836.70895	110.6583493
	6000	0.94%	0.72%	No Reduct	No Reduct	1.20%	1.20%	2017	006000	Construction	C.1 Well Drilling	4995.849988	257.5406623
	7000	0.58%	0.44%	No Reduct	No Reduct	0.74%	0.74%	2017	007000	Construction	C.1 Well Drilling	5985.300033	308.2478279
2017	8000	0.27%	0.20%	No Reduct	No Reduct	0.34%	0.34%	2017	008000	Construction	C.1 Well Drilling	7469.4751	384.3085764
	9000	0.39%	0.30%	No Reduct	No Reduct	0.50%	0.50%	2017	009000	Construction	C.1 Well Drilling	8953.650168	460.3693248
	10000	0.35%	0.27%	No Reduct	No Reduct	0.45%	0.45%	2017	010000	Construction	C.1 Well Drilling	11427.27528	587.1372389
	11000	0.34%	0.27%	No Reduct	No Reduct	0.45%	0.45%	2017	011000	Construction	C.1 Well Drilling	17043.46992	860.972981
	12000	0.45%	0.35%	No Reduct	No Reduct	0.60%	0.60%	2017	012000	Construction	C.1 Well Drilling	21292.18745	1075.215018
	13000	0.40%	0.31%	No Reduct	No Reduct	0.53%	0.53%	2017	013000	Construction	C.1 Well Drilling	26147.86464	1320.06306
	14000	0.11%	0.09%	No Reduct	No Reduct	0.15%	0.15%	2017	014000	Construction	C.1 Well Drilling	32217.46112	1626.123112
	15000	0.02%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2017	015000	Construction	C.1 Well Drilling	39500.9769	1993.395175
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2018	001000	Construction	C.1 Well Drilling	618.2650511	38.07086535
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2018	002000	Construction	C.1 Well Drilling	810.1939548	49.62555854
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2018	003000	Construction	C.1 Well Drilling	1002.122858	61.18025173
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2018	004000	Construction	C.1 Well Drilling	1194.051762	72.73494492
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2018	005000	Construction	C.1 Well Drilling	1577.909569	95.84433131
	6000	0.94%	0.71%	No Reduct	No Reduct	1.19%	1.19%	2018	006000	Construction	C.1 Well Drilling	4823.38249	244.8783498
	7000	0.58%	0.44%	No Reduct	No Reduct	0.74%	0.74%	2018	007000	Construction	C.1 Well Drilling	5779.56332	293.1726627
2018	8000	0.27%	0.20%	No Reduct	No Reduct	0.34%	0.34%	2018	008000	Construction	C.1 Well Drilling	7213.834565	365.6141319
	9000	0.39%	0.30%	No Reduct	No Reduct	0.50%	0.50%	2018	009000	Construction	C.1 Well Drilling	8648.10581	438.0556011
	10000	0.35%	0.27%	No Reduct	No Reduct	0.45%	0.45%	2018	010000	Construction	C.1 Well Drilling	11038.55788	558.7913832
	11000	0.34%	0.27%	No Reduct	No Reduct	0.45%	0.45%	2018	011000	Construction	C.1 Well Drilling	16557.08617	825.6487898
	12000	0.45%	0.35%	No Reduct	No Reduct	0.60%	0.60%	2018	012000	Construction	C.1 Well Drilling	20685.73813	1031.209291
	13000	0.40%	0.31%	No Reduct	No Reduct	0.52%	0.52%	2018	013000	Construction	C.1 Well Drilling	25404.19751	1266.135578
	14000	0.11%	0.09%	No Reduct	No Reduct	0.15%	0.15%	2018	014000	Construction	C.1 Well Drilling	31302.27173	1559.793436
	15000	0.02%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2018	015000	Construction	C.1 Well Drilling	38379.9608	1912.182867
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2019	001000	Construction	C.1 Well Drilling	569.7563561	35.5442175
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2019	002000	Construction	C.1 Well Drilling	746.8582133	46.37616294
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2019	003000	Construction	C.1 Well Drilling	923.9600705	57.20810837
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2019	004000	Construction	C.1 Well Drilling	1101.061928	68.04005381
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2019	005000	Construction	C.1 Well Drilling	1455.265642	89.70394468
	6000	0.94%	0.71%	No Reduct	No Reduct	1.19%	1.19%	2019	006000	Construction	C.1 Well Drilling	4096.004555	186.2976253
	7000	0.58%	0.44%	No Reduct	No Reduct	0.74%	0.74%	2019	007000	Construction	C.1 Well Drilling	4907.51531	222.9474742
2019	8000	0.27%	0.20%	No Reduct	No Reduct	0.34%	0.34%	2019	008000	Construction	C.1 Well Drilling	6124.781441	277.9222474
	9000	0.39%	0.30%	No Reduct	No Reduct	0.50%	0.50%	2019	009000	Construction	C.1 Well Drilling	7342.047572	332.8970206
	10000	0.35%	0.27%	No Reduct	No Reduct	0.45%	0.45%	2019	010000	Construction	C.1 Well Drilling	9370.824458	424.5216427
	11000	0.34%	0.27%	No Reduct	No Reduct	0.45%	0.45%	2019	011000	Construction	C.1 Well Drilling	14035.91596	622.1002856
	12000	0.45%	0.35%	No Reduct	No Reduct	0.60%	0.60%	2019	012000	Construction	C.1 Well Drilling	17535.28226	776.8632618
	13000	0.40%	0.31%	No Reduct	No Reduct	0.52%	0.52%	2019	013000	Construction	C.1 Well Drilling	21534.55802	953.7352345
	14000	0.11%	0.09%	No Reduct	No Reduct	0.15%	0.15%	2019	014000	Construction	C.1 Well Drilling	26533.65273	1174.8252
	15000	0.02%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2019	015000	Construction	C.1 Well Drilling	32532.56637	1440.133159
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2020	001000	Construction	C.1 Well Drilling	473.7173815	31.85752448
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2020	002000	Construction	C.1 Well Drilling	619.9858554	41.56484144
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2020	003000	Construction	C.1 Well Drilling	766.2543294	51.27215841
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2020	004000	Construction	C.1 Well Drilling	912.5228033	60.97947537
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2020	005000	Construction	C.1 Well Drilling	1205.059751	80.39410929
	6000	0.94%	0.71%	No Reduct	No Reduct	1.19%	1.19%	2020	006000	Construction	C.1 Well Drilling	4023.834188	181.5986855

855.7315035	1.008083983	40.71607697	37.45879081	2017	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	50.0321686	46.02959511	2017	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	59.34826023	54.60039941	2017	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	77.98044349	71.74200801	2017	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	174.9119482	160.9189923	2017	006000	Construction	C.1 Well Drilling	47.1083076	1.843306698	No Reduction	No Reduction
4747.390168	5.585171161	209.2039957	192.4676761	2017	007000	Construction	C.1 Well Drilling	34.94005274	1.367315062	No Reduction	No Reduction
5925.543293	6.971121135	260.6420671	239.7907017	2017	008000	Construction	C.1 Well Drilling	19.85561121	0.777094139	No Reduction	No Reduction
7103.696418	8.357071108	312.0801384	287.1137273	2017	009000	Construction	C.1 Well Drilling	35.26749451	1.380369736	No Reduction	No Reduction
9067.284959	10.66698773	397.8102572	365.9854367	2017	010000	Construction	C.1 Well Drilling	40.19711389	1.573435668	No Reduction	No Reduction
13484.46933	15.8601023	577.269724	531.0881461	2017	011000	Construction	C.1 Well Drilling	58.44365028	2.289707851	No Reduction	No Reduction
16846.89225	19.81478506	720.7242274	663.0662892	2017	012000	Construction	C.1 Well Drilling	96.62645639	3.785791767	No Reduction	No Reduction
20689.6613	24.3344225	884.6722312	813.8984527	2017	013000	Construction	C.1 Well Drilling	104.2401151	4.084218148	No Reduction	No Reduction
25493.12261	29.9839693	1089.607236	1002.438657	2017	014000	Construction	C.1 Well Drilling	35.6907876	1.398431656	No Reduction	No Reduction
31257.27618	36.76342545	1335.529242	1228.686903	2017	015000	Construction	C.1 Well Drilling	8.754605721	0.343028738	No Reduction	No Reduction
650.4930445	0.766405804	25.96951865	23.89195716	2018	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	33.66149016	30.96857094	2018	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	41.35346166	38.04518473	2018	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	49.04543317	45.12179851	2018	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	64.42937617	59.27502608	2018	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	163.1964128	150.1406998	2018	006000	Construction	C.1 Well Drilling	45.41349596	1.750037291	No Reduction	No Reduction
4747.390168	5.585171161	195.2569746	179.6364166	2018	007000	Construction	C.1 Well Drilling	33.68819766	1.29848568	No Reduction	No Reduction
5925.543293	6.971121135	243.3478172	223.8799918	2018	008000	Construction	C.1 Well Drilling	19.14716478	0.73817894	No Reduction	No Reduction
7103.696418	8.357071108	291.4386598	268.123567	2018	009000	Construction	C.1 Well Drilling	34.01266018	1.311485245	No Reduction	No Reduction
9067.284959	10.66698773	371.5900642	341.862859	2018	010000	Construction	C.1 Well Drilling	38.77123564	1.495216859	No Reduction	No Reduction
13484.46933	15.8601023	544.5728937	501.0070622	2018	011000	Construction	C.1 Well Drilling	56.69024632	2.192456671	No Reduction	No Reduction
16846.89225	19.81478506	679.9927161	625.5932988	2018	012000	Construction	C.1 Well Drilling	93.73286987	3.62537836	No Reduction	No Reduction
20689.6613	24.3344225	834.7582274	767.9775692	2018	013000	Construction	C.1 Well Drilling	101.1228392	3.911466231	No Reduction	No Reduction
25493.12261	29.9839693	1028.215117	945.9579072	2018	014000	Construction	C.1 Well Drilling	34.6246822	1.339368351	No Reduction	No Reduction
31257.27618	36.76342545	1260.363384	1159.534313	2018	015000	Construction	C.1 Well Drilling	8.493337895	0.328557697	No Reduction	No Reduction
650.4930445	0.766405804	23.45834049	21.58167325	2019	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	30.43243937	27.99784422	2019	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	37.40653826	34.4140152	2019	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	44.38063715	40.83018618	2019	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	58.32883492	53.66252813	2019	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	124.3601064	114.4112979	2019	006000	Construction	C.1 Well Drilling	38.50700754	1.329383666	No Reduction	No Reduction
4747.390168	5.585171161	148.7249189	136.8269254	2019	007000	Construction	C.1 Well Drilling	28.56212527	0.985966945	No Reduction	No Reduction
5925.543293	6.971121135	185.2721377	170.4503667	2019	008000	Construction	C.1 Well Drilling	16.23211079	0.560283839	No Reduction	No Reduction
7103.696418	8.357071108	221.8193565	204.0738079	2019	009000	Construction	C.1 Well Drilling	28.83254017	0.995153753	No Reduction	No Reduction
9067.284959	10.66698773	282.7313878	260.1128767	2019	010000	Construction	C.1 Well Drilling	32.86405973	1.134228163	No Reduction	No Reduction
13484.46933	15.8601023	411.1971285	378.3013582	2019	011000	Construction	C.1 Well Drilling	47.98564097	1.649461478	No Reduction	No Reduction
16846.89225	19.81478506	513.3623997	472.2934077	2019	012000	Construction	C.1 Well Drilling	79.33772789	2.727075809	No Reduction	No Reduction
20689.6613	24.3344225	630.1227096	579.7128928	2019	013000	Construction	C.1 Well Drilling	85.59055506	2.941936579	No Reduction	No Reduction
25493.12261	29.9839693	776.073097	713.9872492	2019	014000	Construction	C.1 Well Drilling	29.30576654	1.007284854	No Reduction	No Reduction
31257.27618	36.76342545	951.2135618	875.1164769	2019	015000	Construction	C.1 Well Drilling	7.188500477	0.247076238	No Reduction	No Reduction
650.4930445	0.766405804	19.78680255	18.20385834	2020	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	25.64783746	23.59601046	2020	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	31.50887236	28.98816257	2020	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	37.36990727	34.38031469	2020	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	49.09197709	45.16461892	2020	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	119.4004227	109.8483889	2020	006000	Construction	C.1 Well Drilling	37.77169763	1.293906245	No Reduction	No Reduction

No Reduction	No Reduction	1581	2017	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1131	2017	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	219	2017	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	363	2017	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
2.093285596	1.925822761	89	2017	2.09631969	0.08202715	No Reduction	No Reduction	0.09315121	0.08569911
1.552882247	1.428651678	55	2017	0.96085145	0.03760116	No Reduction	No Reduction	0.04270426	0.03928792
0.882638899	0.812027786	25	2017	0.24819514	0.00971368	No Reduction	No Reduction	0.01103299	0.01015035
1.567947219	1.442511453	37	2017	0.65244865	0.02553684	No Reduction	No Reduction	0.02900702	0.02668646
1.787368619	1.644379117	33	2017	0.66325238	0.02596169	No Reduction	No Reduction	0.02949158	0.02713226
2.606141249	2.397649944	31	2017	0.90587658	0.03549047	No Reduction	No Reduction	0.04039519	0.03716357
4.309147326	3.964415549	41	2017	1.98084236	0.07760873	No Reduction	No Reduction	0.08833752	0.08127052
4.648962632	4.277045611	36	2017	1.87632207	0.07351593	No Reduction	No Reduction	0.08368133	0.07698682
1.591837474	1.464490477	10	2017	0.17845394	0.00699216	No Reduction	No Reduction	0.00795919	0.00732245
0.390477684	0.359239471	2	2017	0.00875461	0.00034303	No Reduction	No Reduction	0.00039048	0.00035924
No Reduction	No Reduction	325	2018	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1582	2018	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1133	2018	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	219	2018	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	364	2018	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
1.950135267	1.794124458	89	2018	2.02090057	0.07787666	No Reduction	No Reduction	0.08678102	0.07983854
1.447172248	1.331398479	55	2018	0.92642544	0.03570836	No Reduction	No Reduction	0.03979724	0.03661346
0.822831913	0.757005359	25	2018	0.23933956	0.00922724	No Reduction	No Reduction	0.0102854	0.00946257
1.462034397	1.345071656	37	2018	0.62923421	0.02426248	No Reduction	No Reduction	0.02704764	0.02488383
1.66704516	1.533681536	33	2018	0.63972539	0.02467108	No Reduction	No Reduction	0.02750625	0.02530575
2.454823714	2.258437811	31	2018	0.87869882	0.03398308	No Reduction	No Reduction	0.03804977	0.03500579
4.059491178	3.734731893	41	2018	1.92152383	0.07432026	No Reduction	No Reduction	0.08321957	0.076562
4.380054235	4.029649887	36	2018	1.82021111	0.07040639	No Reduction	No Reduction	0.07884098	0.0725337
1.499884614	1.379893846	10	2018	0.17312341	0.00669684	No Reduction	No Reduction	0.00749942	0.00689947
0.367945686	0.338510032	2	2018	0.00849334	0.00032856	No Reduction	No Reduction	0.00036795	0.00033851
No Reduction	No Reduction	325	2019	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1586	2019	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1134	2019	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	219	2019	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	365	2019	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
1.483820336	1.365114719	89	2019	1.71356184	0.05915757	No Reduction	No Reduction	0.06603	0.0607476
1.1006355	1.012584669	55	2019	0.78545845	0.02711409	No Reduction	No Reduction	0.03026748	0.02784608
0.625518114	0.575476664	25	2019	0.20290138	0.00700355	No Reduction	No Reduction	0.00781898	0.00719346
1.111107237	1.022218666	37	2019	0.53340199	0.01841034	No Reduction	No Reduction	0.02055548	0.01891105
1.266494776	1.165175185	33	2019	0.54225699	0.01871476	No Reduction	No Reduction	0.02089716	0.01922539
1.850804168	1.70273983	31	2019	0.74377744	0.02556665	No Reduction	No Reduction	0.02868746	0.02639247
3.060113281	2.815304225	41	2019	1.62642342	0.05590505	No Reduction	No Reduction	0.06273232	0.05771374
3.301338205	3.037231141	36	2019	1.54062999	0.05295486	No Reduction	No Reduction	0.05942409	0.05467016
1.130375147	1.039945136	10	2019	0.14652883	0.00503642	No Reduction	No Reduction	0.00565188	0.00519973
0.277275871	0.255093801	2	2019	0.0071885	0.00024708	No Reduction	No Reduction	0.00027728	0.00025509
No Reduction	No Reduction	326	2020	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1588	2020	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1136	2020	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	220	2020	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	365	2020	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
1.422502988	1.308702758	89	2020	1.68084054	0.05757883	No Reduction	No Reduction	0.06330138	0.05823727

No Reduction	1581	No Reduction	No Reduction	2017
No Reduction	1131	No Reduction	No Reduction	2017
No Reduction	219	No Reduction	No Reduction	2017
No Reduction	363	No Reduction	No Reduction	2017
2.271498045	89	0.02552245	177.9935659	2017
1.041156876	55	0.018930125	132.0186919	2017
0.268941803	25	0.010757672	75.02400538	2017
0.706992512	37	0.019107906	133.2585346	2017
0.71870565	33	0.021778959	151.8864607	2017
0.98176224	31	0.03166975	220.8648343	2017
2.146788607	41	0.052360698	365.163506	2017
2.033519326	36	0.056486648	393.9378827	2017
0.193405284	10	0.019340528	134.8808448	2017
0.009488112	2	0.004744056	33.08504704	2017
No Reduction	325	No Reduction	No Reduction	2018
No Reduction	1582	No Reduction	No Reduction	2018
No Reduction	1133	No Reduction	No Reduction	2018
No Reduction	219	No Reduction	No Reduction	2018
No Reduction	364	No Reduction	No Reduction	2018
2.185558249	89	0.024556834	171.2593621	2018
1.001931029	55	0.018216928	127.0448544	2018
0.258852195	25	0.010354088	72.20940844	2018
0.680544327	37	0.01839309	128.273409	2018
0.691902711	33	0.020966749	146.2221063	2018
0.950731664	31	0.030668763	213.8839556	2018
2.079063658	41	0.05070887	353.6436573	2018
1.969458474	36	0.05470718	381.5278722	2018
0.187319676	10	0.018731968	130.6367419	2018
0.009189841	2	0.004594921	32.04497654	2018
No Reduction	325	No Reduction	No Reduction	2019
No Reduction	1586	No Reduction	No Reduction	2019
No Reduction	1134	No Reduction	No Reduction	2019
No Reduction	219	No Reduction	No Reduction	2019
No Reduction	365	No Reduction	No Reduction	2019
1.838749414	89	0.020660106	144.0835777	2019
0.842840012	55	0.015324364	106.8721136	2019
0.217723909	25	0.008708956	60.73626174	2019
0.572367821	37	0.015469401	107.8835996	2019
0.581868914	33	0.017632391	122.9682972	2019
0.798031553	31	0.025742953	179.5313564	2019
1.745060798	41	0.042562458	296.8305855	2019
1.653008937	36	0.045916915	320.2245647	2019
0.157217133	10	0.015721713	109.6432284	2019
0.007712853	2	0.003856426	26.89471697	2019
No Reduction	326	No Reduction	No Reduction	2020
No Reduction	1588	No Reduction	No Reduction	2020
No Reduction	1136	No Reduction	No Reduction	2020
No Reduction	220	No Reduction	No Reduction	2020
No Reduction	365	No Reduction	No Reduction	2020
1.801720755	89	0.020244053	141.1820286	2020

	7000	0.58%	0.44%	No Reduct	No Reduct	0.74%	0.74%	2020	007000	Construction	C.1 Well Drilling	4821.618634	217.3713079
2020	8000	0.26%	0.20%	No Reduct	No Reduct	0.34%	0.34%	2020	008000	Construction	C.1 Well Drilling	6018.295302	271.0302415
	9000	0.39%	0.30%	No Reduct	No Reduct	0.50%	0.50%	2020	009000	Construction	C.1 Well Drilling	7214.971971	324.6891751
	10000	0.35%	0.27%	No Reduct	No Reduct	0.45%	0.45%	2020	010000	Construction	C.1 Well Drilling	9209.433085	414.1207311
	11000	0.34%	0.26%	No Reduct	No Reduct	0.45%	0.45%	2020	011000	Construction	C.1 Well Drilling	13837.57353	609.3806479
	12000	0.45%	0.35%	No Reduct	No Reduct	0.60%	0.60%	2020	012000	Construction	C.1 Well Drilling	17288.23892	761.0419164
	13000	0.40%	0.31%	No Reduct	No Reduct	0.52%	0.52%	2020	013000	Construction	C.1 Well Drilling	21231.85651	934.3690805
	14000	0.11%	0.09%	No Reduct	No Reduct	0.15%	0.15%	2020	014000	Construction	C.1 Well Drilling	26161.3785	1151.028036
	15000	0.02%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2020	015000	Construction	C.1 Well Drilling	32076.80488	1411.018782
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2021	001000	Construction	C.1 Well Drilling	454.0675786	30.83737278
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2021	002000	Construction	C.1 Well Drilling	594.768133	40.29517785
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2021	003000	Construction	C.1 Well Drilling	735.4686874	49.75298292
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2021	004000	Construction	C.1 Well Drilling	876.1692418	59.21078799
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2021	005000	Construction	C.1 Well Drilling	1157.570351	78.12639812
	6000	0.94%	0.71%	No Reduct	No Reduct	1.19%	1.19%	2021	006000	Construction	C.1 Well Drilling	3979.529499	180.8457994
	7000	0.58%	0.44%	No Reduct	No Reduct	0.74%	0.74%	2021	007000	Construction	C.1 Well Drilling	4769.042215	216.5221677
2021	8000	0.26%	0.20%	No Reduct	No Reduct	0.34%	0.34%	2021	008000	Construction	C.1 Well Drilling	5953.31129	270.0367203
	9000	0.39%	0.30%	No Reduct	No Reduct	0.50%	0.50%	2021	009000	Construction	C.1 Well Drilling	7137.580365	323.5512728
	10000	0.35%	0.27%	No Reduct	No Reduct	0.45%	0.45%	2021	010000	Construction	C.1 Well Drilling	9111.362157	412.7421937
	11000	0.34%	0.26%	No Reduct	No Reduct	0.45%	0.45%	2021	011000	Construction	C.1 Well Drilling	13724.00099	609.9411943
	12000	0.45%	0.35%	No Reduct	No Reduct	0.59%	0.59%	2021	012000	Construction	C.1 Well Drilling	17147.00976	761.8105034
	13000	0.40%	0.31%	No Reduct	No Reduct	0.52%	0.52%	2021	013000	Construction	C.1 Well Drilling	21059.01979	935.3754282
	14000	0.11%	0.09%	No Reduct	No Reduct	0.15%	0.15%	2021	014000	Construction	C.1 Well Drilling	25949.03232	1152.331584
	15000	0.02%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2021	015000	Construction	C.1 Well Drilling	31817.04735	1412.678971
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2022	001000	Construction	C.1 Well Drilling	341.9227276	25.77051109
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2022	002000	Construction	C.1 Well Drilling	446.6023834	33.65855547
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2022	003000	Construction	C.1 Well Drilling	551.2820392	41.54659984
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2022	004000	Construction	C.1 Well Drilling	655.961695	49.43464421
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2022	005000	Construction	C.1 Well Drilling	865.3210066	65.21073296
	6000	0.94%	0.71%	No Reduct	No Reduct	1.19%	1.19%	2022	006000	Construction	C.1 Well Drilling	3920.329107	178.9607315
	7000	0.58%	0.44%	No Reduct	No Reduct	0.74%	0.74%	2022	007000	Construction	C.1 Well Drilling	4698.818176	214.3316023
2022	8000	0.26%	0.20%	No Reduct	No Reduct	0.34%	0.34%	2022	008000	Construction	C.1 Well Drilling	5866.55178	267.3879083
	9000	0.39%	0.30%	No Reduct	No Reduct	0.50%	0.50%	2022	009000	Construction	C.1 Well Drilling	7034.285384	320.4442144
	10000	0.35%	0.27%	No Reduct	No Reduct	0.45%	0.45%	2022	010000	Construction	C.1 Well Drilling	8980.508058	408.8713912
	11000	0.34%	0.26%	No Reduct	No Reduct	0.45%	0.45%	2022	011000	Construction	C.1 Well Drilling	13571.14572	607.5116973
	12000	0.45%	0.35%	No Reduct	No Reduct	0.59%	0.59%	2022	012000	Construction	C.1 Well Drilling	16956.96121	758.8630271
	13000	0.40%	0.31%	No Reduct	No Reduct	0.52%	0.52%	2022	013000	Construction	C.1 Well Drilling	20826.46463	931.8359755
	14000	0.11%	0.09%	No Reduct	No Reduct	0.14%	0.14%	2022	014000	Construction	C.1 Well Drilling	25663.3439	1148.052161
	15000	0.02%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2022	015000	Construction	C.1 Well Drilling	31467.59903	1407.511583
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2023	001000	Construction	C.1 Well Drilling	313.9175079	24.67658143
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2023	002000	Construction	C.1 Well Drilling	410.0209101	32.26580395
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2023	003000	Construction	C.1 Well Drilling	506.1243122	39.85502648
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2023	004000	Construction	C.1 Well Drilling	602.2277144	47.444249
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2023	005000	Construction	C.1 Well Drilling	794.4345188	62.62269405
	6000	0.93%	0.71%	No Reduct	No Reduct	1.19%	1.19%	2023	006000	Construction	C.1 Well Drilling	3880.922951	178.4587114
	7000	0.58%	0.44%	No Reduct	No Reduct	0.74%	0.74%	2023	007000	Construction	C.1 Well Drilling	4651.986081	213.7686709
2023	8000	0.26%	0.20%	No Reduct	No Reduct	0.34%	0.34%	2023	008000	Construction	C.1 Well Drilling	5808.580775	266.7336101
	9000	0.39%	0.30%	No Reduct	No Reduct	0.50%	0.50%	2023	009000	Construction	C.1 Well Drilling	6965.17547	319.6985494
	10000	0.35%	0.27%	No Reduct	No Reduct	0.45%	0.45%	2023	010000	Construction	C.1 Well Drilling	8892.833295	407.9734481
	11000	0.34%	0.26%	No Reduct	No Reduct	0.45%	0.45%	2023	011000	Construction	C.1 Well Drilling	13468.3814	608.4672392

4747.390168	5.585171161	142.8397677	131.4125863	2020	007000	Construction	C.1 Well Drilling	28.02004333	0.959862681	No Reduction	No Reduction
5925.543293	6.971121135	177.9987851	163.7588823	2020	008000	Construction	C.1 Well Drilling	15.9259367	0.545568924	No Reduction	No Reduction
7103.696418	8.357071108	213.1578026	196.1051784	2020	009000	Construction	C.1 Well Drilling	28.29094464	0.969159319	No Reduction	No Reduction
9067.284959	10.66698773	271.756165	250.0156718	2020	010000	Construction	C.1 Well Drilling	32.24953037	1.10477707	No Reduction	No Reduction
13484.46933	15.8601023	397.7571575	365.9365849	2020	011000	Construction	C.1 Well Drilling	47.23648485	1.613308879	No Reduction	No Reduction
16846.89225	19.81478506	496.6455224	456.9138806	2020	012000	Construction	C.1 Well Drilling	78.10248331	2.667523742	No Reduction	No Reduction
20689.6613	24.3344225	609.6607966	560.8879329	2020	013000	Construction	C.1 Well Drilling	84.26067613	2.877869036	No Reduction	No Reduction
25493.12261	29.9839693	750.9298894	690.8554982	2020	014000	Construction	C.1 Well Drilling	28.8511918	0.985398827	No Reduction	No Reduction
31257.27618	36.76342545	920.4528007	846.8165766	2020	015000	Construction	C.1 Well Drilling	7.07714629	0.241717566	No Reduction	No Reduction
650.4930445	0.766405804	18.29023578	16.82701692	2021	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	23.74861487	21.84872568	2021	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	29.20699396	26.87043444	2021	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	34.66537304	31.8921432	2021	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	45.58213122	41.93556072	2021	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	115.4316973	106.1971615	2021	006000	Construction	C.1 Well Drilling	37.29977617	1.286609053	No Reduction	No Reduction
4747.390168	5.585171161	138.135017	127.0842157	2021	007000	Construction	C.1 Well Drilling	27.67293236	0.954678899	No Reduction	No Reduction
5925.543293	6.971121135	172.1899967	158.4147969	2021	008000	Construction	C.1 Well Drilling	15.73034155	0.542753667	No Reduction	No Reduction
7103.696418	8.357071108	206.2449763	189.7453782	2021	009000	Construction	C.1 Well Drilling	27.94549979	0.964314169	No Reduction	No Reduction
9067.284959	10.66698773	263.0032757	241.9630136	2021	010000	Construction	C.1 Well Drilling	31.8582471	1.099447806	No Reduction	No Reduction
13484.46933	15.8601023	387.1571718	356.184598	2021	011000	Construction	C.1 Well Drilling	46.77851601	1.612370712	No Reduction	No Reduction
16846.89225	19.81478506	483.4676901	444.7902749	2021	012000	Construction	C.1 Well Drilling	77.34826053	2.666212385	No Reduction	No Reduction
20689.6613	24.3344225	593.5368539	546.0539056	2021	013000	Construction	C.1 Well Drilling	83.44939475	2.876647148	No Reduction	No Reduction
25493.12261	29.9839693	731.1233086	672.6334439	2021	014000	Construction	C.1 Well Drilling	28.57408748	0.985035027	No Reduction	No Reduction
31257.27618	36.76342545	896.2270543	824.5288899	2021	015000	Construction	C.1 Well Drilling	7.009305901	0.241638966	No Reduction	No Reduction
650.4930445	0.766405804	13.75387874	12.65356844	2022	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	17.82438787	16.39843684	2022	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	21.89489701	20.14330525	2022	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	25.96540614	23.88817365	2022	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	34.10642441	31.37791045	2022	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	110.3747683	101.5447868	2022	006000	Construction	C.1 Well Drilling	36.68986137	1.271290993	No Reduction	No Reduction
4747.390168	5.585171161	132.1412517	121.5699516	2022	007000	Construction	C.1 Well Drilling	27.22461214	0.943604958	No Reduction	No Reduction
5925.543293	6.971121135	164.7909768	151.6076987	2022	008000	Construction	C.1 Well Drilling	15.47788143	0.536624815	No Reduction	No Reduction
7103.696418	8.357071108	197.4407019	181.6454457	2022	009000	Construction	C.1 Well Drilling	27.4998231	0.953623438	No Reduction	No Reduction
9067.284959	10.66698773	251.8569104	231.7083575	2022	010000	Construction	C.1 Well Drilling	31.35367992	1.087505643	No Reduction	No Reduction
13484.46933	15.8601023	373.7364222	343.8375084	2022	011000	Construction	C.1 Well Drilling	46.18822359	1.603543057	No Reduction	No Reduction
16846.89225	19.81478506	466.7849399	429.4421447	2022	012000	Construction	C.1 Well Drilling	76.37640796	2.651918821	No Reduction	No Reduction
20689.6613	24.3344225	573.126103	527.2760147	2022	013000	Construction	C.1 Well Drilling	82.4042551	2.861469734	No Reduction	No Reduction
25493.12261	29.9839693	706.0525568	649.5683523	2022	014000	Construction	C.1 Well Drilling	28.2171725	0.979907034	No Reduction	No Reduction
31257.27618	36.76342545	865.5643015	796.3191573	2022	015000	Construction	C.1 Well Drilling	6.921939413	0.240394492	No Reduction	No Reduction
650.4930445	0.766405804	12.11604117	11.14675788	2023	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	15.71365812	14.45656547	2023	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	19.31127507	17.76637307	2023	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	22.90889202	21.07618066	2023	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	30.10412592	27.69579585	2023	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	106.7825202	98.23991859	2023	006000	Construction	C.1 Well Drilling	36.26674552	1.265828872	No Reduction	No Reduction
4747.390168	5.585171161	127.8743862	117.6444353	2023	007000	Construction	C.1 Well Drilling	26.91296139	0.939719159	No Reduction	No Reduction
5925.543293	6.971121135	159.5121851	146.7512103	2023	008000	Construction	C.1 Well Drilling	15.30201632	0.534511128	No Reduction	No Reduction
7103.696418	8.357071108	191.1499841	175.8579854	2023	009000	Construction	C.1 Well Drilling	27.18892262	0.949981544	No Reduction	No Reduction
9067.284959	10.66698773	243.879649	224.3692771	2023	010000	Construction	C.1 Well Drilling	31.00114863	1.08349451	No Reduction	No Reduction
13484.46933	15.8601023	363.9836776	334.8649834	2023	011000	Construction	C.1 Well Drilling	45.76992205	1.603663343	No Reduction	No Reduction

1.055494562	0.971055005	55	2020	0.77055119	0.02639622	No Reduction	No Reduction	0.0290261	0.02670401
0.600058933	0.552054218	25	2020	0.19907421	0.00681961	No Reduction	No Reduction	0.00750074	0.00690068
1.066116976	0.980827626	37	2020	0.52338248	0.01792945	No Reduction	No Reduction	0.01972316	0.01814531
1.215502544	1.118262333	33	2020	0.53211725	0.01822882	No Reduction	No Reduction	0.02005579	0.01845133
1.787621165	1.644611468	31	2020	0.73216552	0.02500629	No Reduction	No Reduction	0.02770813	0.02549148
2.956017908	2.719536482	41	2020	1.60110091	0.05468424	No Reduction	No Reduction	0.06059837	0.0557505
3.189335774	2.934188905	36	2020	1.51669217	0.05180164	No Reduction	No Reduction	0.05740804	0.0528154
1.092110171	1.004741358	10	2020	0.14425596	0.00492699	No Reduction	No Reduction	0.00546055	0.00502371
0.267906133	0.246473643	2	2020	0.00707715	0.00024172	No Reduction	No Reduction	0.00026791	0.00024647
No Reduction	No Reduction	326	2021	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1590	2021	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1139	2021	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	220	2021	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	366	2021	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
1.373157881	1.263305259	89	2021	1.65984004	0.0572541	No Reduction	No Reduction	0.06110553	0.05621708
1.019198368	0.937662506	55	2021	0.76100564	0.02625367	No Reduction	No Reduction	0.02802796	0.02578572
0.579605975	0.533237496	25	2021	0.19662927	0.00678442	No Reduction	No Reduction	0.00724507	0.00666547
1.029994896	0.947595312	37	2021	0.51699175	0.01783981	No Reduction	No Reduction	0.01905491	0.01753051
1.174588363	1.080621286	33	2021	0.52566108	0.01814089	No Reduction	No Reduction	0.01938071	0.01783025
1.737372178	1.5983824	31	2021	0.725067	0.02499175	No Reduction	No Reduction	0.02692927	0.02477493
2.873267505	2.643406111	41	2021	1.58563934	0.05465735	No Reduction	No Reduction	0.05890198	0.05418983
3.100328657	2.852302358	36	2021	1.50208911	0.05177965	No Reduction	No Reduction	0.05580592	0.05134144
1.061709638	0.976772867	10	2021	0.14287044	0.00492518	No Reduction	No Reduction	0.00530855	0.00488386
0.260463728	0.23962663	2	2021	0.00700931	0.00024164	No Reduction	No Reduction	0.00026046	0.00023963
No Reduction	No Reduction	326	2022	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1595	2022	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1140	2022	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	220	2022	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	366	2022	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
1.311034872	1.20615209	89	2022	1.63269883	0.05657245	No Reduction	No Reduction	0.05834105	0.05367377
0.973514438	0.89563329	55	2022	0.74867683	0.02594914	No Reduction	No Reduction	0.02677165	0.02462992
0.55386945	0.509559893	25	2022	0.19347352	0.00670781	No Reduction	No Reduction	0.00692337	0.0063695
0.984549206	0.905785277	37	2022	0.50874673	0.01764203	No Reduction	No Reduction	0.01821416	0.01675703
1.123123344	1.033273469	33	2022	0.51733572	0.01794384	No Reduction	No Reduction	0.01853154	0.01704901
1.674634461	1.540663701	31	2022	0.71591747	0.02485492	No Reduction	No Reduction	0.02595683	0.02388029
2.769966315	2.548369016	41	2022	1.56571636	0.05436434	No Reduction	No Reduction	0.05678431	0.05224156
2.989229637	2.750091259	36	2022	1.48327659	0.05150646	No Reduction	No Reduction	0.05380613	0.04950164
1.023767189	0.941865814	10	2022	0.14108586	0.00489954	No Reduction	No Reduction	0.00511884	0.00470933
0.251175679	0.231081625	2	2022	0.00692194	0.00024039	No Reduction	No Reduction	0.00025118	0.00023108
No Reduction	No Reduction	327	2023	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1598	2023	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1141	2023	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	221	2023	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	366	2023	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
1.266469181	1.165151654	89	2023	1.61387018	0.05632938	No Reduction	No Reduction	0.05635788	0.05184925
0.940670584	0.865416944	55	2023	0.74010644	0.02584228	No Reduction	No Reduction	0.02586844	0.02379897
0.535325422	0.492499387	25	2023	0.1912752	0.00668139	No Reduction	No Reduction	0.00669157	0.00615624
0.951754693	0.875614324	37	2023	0.50299507	0.01757466	No Reduction	No Reduction	0.01760746	0.01619887
1.085923333	0.999049458	33	2023	0.51151895	0.01787766	No Reduction	No Reduction	0.01791773	0.01648432
1.628495375	1.498215742	31	2023	0.70943379	0.02485678	No Reduction	No Reduction	0.02524168	0.02322234

0.825973516	55	0.0150177	104.7334418	2020
0.213394557	25	0.008535782	59.52854561	2020
0.561035087	37	0.01516311	105.7475324	2020
0.570401865	33	0.017284905	120.5449274	2020
0.784879931	31	0.025318707	176.5726657	2020
1.716383512	41	0.041863012	291.952649	2020
1.625901857	36	0.04516394	314.9733208	2020
0.154643504	10	0.01546435	107.8483797	2020
0.00758677	2	0.003793385	26.45506695	2020
No Reduction	326	No Reduction	No Reduction	2021
No Reduction	1590	No Reduction	No Reduction	2021
No Reduction	1139	No Reduction	No Reduction	2021
No Reduction	220	No Reduction	No Reduction	2021
No Reduction	366	No Reduction	No Reduction	2021
1.778199668	89	0.019979772	139.3389268	2021
0.815287265	55	0.014823405	103.3784252	2021
0.210658765	25	0.008426351	58.76536907	2021
0.553886464	37	0.014969904	104.4001135	2021
0.563182674	33	0.017066142	119.0192718	2021
0.776988013	31	0.025064129	174.7972388	2021
1.699198679	41	0.04144387	289.0295508	2021
1.60967467	36	0.044713185	311.8297541	2021
0.153104161	10	0.015310416	106.7748417	2021
0.007511409	2	0.003755704	26.19228177	2021
No Reduction	326	No Reduction	No Reduction	2022
No Reduction	1595	No Reduction	No Reduction	2022
No Reduction	1140	No Reduction	No Reduction	2022
No Reduction	220	No Reduction	No Reduction	2022
No Reduction	366	No Reduction	No Reduction	2022
1.747612332	89	0.019636094	136.9421169	2022
0.801397617	55	0.014570866	101.6172179	2022
0.207104696	25	0.008284188	57.77392606	2022
0.544602921	37	0.014718998	102.6502912	2022
0.553811097	33	0.016782154	117.0387452	2022
0.766729217	31	0.024733201	172.4893407	2022
1.676865008	41	0.040899147	285.230648	2022
1.588589181	36	0.044127477	307.7450263	2022
0.151104234	10	0.015110423	105.3800925	2022
0.00741351	2	0.003706755	25.85090792	2022
No Reduction	327	No Reduction	No Reduction	2023
No Reduction	1598	No Reduction	No Reduction	2023
No Reduction	1141	No Reduction	No Reduction	2023
No Reduction	221	No Reduction	No Reduction	2023
No Reduction	366	No Reduction	No Reduction	2023
1.726557439	89	0.019399522	135.292265	2023
0.791817156	55	0.014396676	100.4024154	2023
0.204648161	25	0.008185926	57.08865097	2023
0.538177189	37	0.014545329	101.4391274	2023
0.547314347	33	0.016585283	115.6657653	2023
0.759532252	31	0.02450104	170.8702556	2023

	12000	0.45%	0.35%	No Reduct	No Reduct	0.59%	0.59%	2023	012000	Construction	C.1 Well Drilling	16829.07493	760.1068205
	13000	0.40%	0.31%	No Reduct	No Reduct	0.52%	0.52%	2023	013000	Construction	C.1 Well Drilling	20669.86753	933.4091991
	14000	0.11%	0.09%	No Reduct	No Reduct	0.14%	0.14%	2023	014000	Construction	C.1 Well Drilling	25470.85828	1150.037172
	15000	0.02%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2023	015000	Construction	C.1 Well Drilling	31232.04718	1409.99074
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2024	001000	Construction	C.1 Well Drilling	279.1916833	23.5733669
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2024	002000	Construction	C.1 Well Drilling	364.3215201	30.8390318
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2024	003000	Construction	C.1 Well Drilling	449.451357	38.1046967
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2024	004000	Construction	C.1 Well Drilling	534.5811938	45.3703616
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2024	005000	Construction	C.1 Well Drilling	704.8408675	59.9016914
	6000	0.95%	0.72%	No Reduct	No Reduct	1.21%	1.21%	2024	006000	Construction	C.1 Well Drilling	3872.359814	180.2189412
	7000	0.58%	0.44%	No Reduct	No Reduct	0.73%	0.73%	2024	007000	Construction	C.1 Well Drilling	4642.071342	215.9074549
2024	8000	0.26%	0.20%	No Reduct	No Reduct	0.34%	0.34%	2024	008000	Construction	C.1 Well Drilling	5796.638635	269.4402256
	9000	0.39%	0.30%	No Reduct	No Reduct	0.50%	0.50%	2024	009000	Construction	C.1 Well Drilling	6951.205927	322.9729963
	10000	0.35%	0.27%	No Reduct	No Reduct	0.44%	0.44%	2024	010000	Construction	C.1 Well Drilling	8875.484748	412.1942808
	11000	0.34%	0.26%	No Reduct	No Reduct	0.45%	0.45%	2024	011000	Construction	C.1 Well Drilling	13456.8761	615.976267
	12000	0.45%	0.35%	No Reduct	No Reduct	0.59%	0.59%	2024	012000	Construction	C.1 Well Drilling	16815.14459	769.5262407
	13000	0.39%	0.31%	No Reduct	No Reduct	0.52%	0.52%	2024	013000	Construction	C.1 Well Drilling	20653.16571	945.0119249
	14000	0.11%	0.09%	No Reduct	No Reduct	0.14%	0.14%	2024	014000	Construction	C.1 Well Drilling	25450.69211	1164.36903
	15000	0.02%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2024	015000	Construction	C.1 Well Drilling	31207.7238	1427.597556
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2025	001000	Construction	C.1 Well Drilling	259.2889181	22.75828312
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2025	002000	Construction	C.1 Well Drilling	338.491929	29.80596118
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2025	003000	Construction	C.1 Well Drilling	417.6949398	36.85363923
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2025	004000	Construction	C.1 Well Drilling	496.8979507	43.90131728
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2025	005000	Construction	C.1 Well Drilling	655.3039724	57.99667339
	6000	0.95%	0.72%	No Reduct	No Reduct	1.21%	1.21%	2025	006000	Construction	C.1 Well Drilling	3854.5428	181.183546
	7000	0.59%	0.45%	No Reduct	No Reduct	0.75%	0.75%	2025	007000	Construction	C.1 Well Drilling	4621.115383	217.0972054
2025	8000	0.26%	0.20%	No Reduct	No Reduct	0.33%	0.33%	2025	008000	Construction	C.1 Well Drilling	5770.974257	270.9676945
	9000	0.39%	0.30%	No Reduct	No Reduct	0.50%	0.50%	2025	009000	Construction	C.1 Well Drilling	6920.833131	324.8381836
	10000	0.35%	0.26%	No Reduct	No Reduct	0.44%	0.44%	2025	010000	Construction	C.1 Well Drilling	8837.264589	414.6223321
	11000	0.34%	0.26%	No Reduct	No Reduct	0.45%	0.45%	2025	011000	Construction	C.1 Well Drilling	13418.10925	621.1381394
	12000	0.45%	0.35%	No Reduct	No Reduct	0.59%	0.59%	2025	012000	Construction	C.1 Well Drilling	16767.21659	776.018862
	13000	0.39%	0.31%	No Reduct	No Reduct	0.52%	0.52%	2025	013000	Construction	C.1 Well Drilling	20594.76783	953.0254021
	14000	0.11%	0.08%	No Reduct	No Reduct	0.14%	0.14%	2025	014000	Construction	C.1 Well Drilling	25379.20689	1174.283577
	15000	0.02%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2025	015000	Construction	C.1 Well Drilling	31120.53376	1439.793387
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2026	001000	Construction	C.1 Well Drilling	248.7099637	22.54780152
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2026	002000	Construction	C.1 Well Drilling	324.8772241	29.55905691
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2026	003000	Construction	C.1 Well Drilling	401.0444845	36.5703123
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2026	004000	Construction	C.1 Well Drilling	477.2117449	43.58156769
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2026	005000	Construction	C.1 Well Drilling	629.5462656	57.60407848
	6000	0.95%	0.72%	No Reduct	No Reduct	1.21%	1.21%	2026	006000	Construction	C.1 Well Drilling	2751.246266	132.6260497
	7000	0.59%	0.45%	No Reduct	No Reduct	0.75%	0.75%	2026	007000	Construction	C.1 Well Drilling	3297.453882	158.8484526
2026	8000	0.26%	0.20%	No Reduct	No Reduct	0.33%	0.33%	2026	008000	Construction	C.1 Well Drilling	4116.765307	198.1820569
	9000	0.39%	0.30%	No Reduct	No Reduct	0.50%	0.50%	2026	009000	Construction	C.1 Well Drilling	4936.076732	237.5156612
	10000	0.35%	0.26%	No Reduct	No Reduct	0.44%	0.44%	2026	010000	Construction	C.1 Well Drilling	6301.595774	303.0716684
	11000	0.34%	0.26%	No Reduct	No Reduct	0.45%	0.45%	2026	011000	Construction	C.1 Well Drilling	9527.043073	450.2183429
	12000	0.45%	0.35%	No Reduct	No Reduct	0.59%	0.59%	2026	012000	Construction	C.1 Well Drilling	11903.7518	562.3944198
	13000	0.40%	0.31%	No Reduct	No Reduct	0.53%	0.53%	2026	013000	Construction	C.1 Well Drilling	14619.99034	690.5956505
	14000	0.11%	0.08%	No Reduct	No Reduct	0.14%	0.14%	2026	014000	Construction	C.1 Well Drilling	18015.28851	850.8471889
	15000	0.02%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2026	015000	Construction	C.1 Well Drilling	22089.64632	1043.149035
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2027	001000	Construction	C.1 Well Drilling	237.4394104	22.28579071

16846.89225	19.81478506	454.6487994	418.2768955	2023	012000	Construction	C.1 Well Drilling	75.68703063	2.652292894	No Reduction	No Reduction
20689.6613	24.3344225	558.2660815	513.604795	2023	013000	Construction	C.1 Well Drilling	81.66233595	2.862014178	No Reduction	No Reduction
25493.12261	29.9839693	687.7876841	632.7646694	2023	014000	Construction	C.1 Well Drilling	27.96364947	0.98013332	No Reduction	No Reduction
31257.27618	36.76342545	843.2136073	775.7565187	2023	015000	Construction	C.1 Well Drilling	6.859850622	0.24045777	No Reduction	No Reduction
650.4930445	0.766405804	10.7065109	9.849990027	2024	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	13.88905201	12.77792785	2024	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	17.07159313	15.70586568	2024	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	20.25413424	18.6338035	2024	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	26.61921647	24.48967915	2024	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	105.3744057	96.94445324	2024	006000	Construction	C.1 Well Drilling	36.94465765	1.305088779	No Reduction	No Reduction
4747.390168	5.585171161	126.2175093	116.1201086	2024	007000	Construction	C.1 Well Drilling	26.81549909	0.94770387	No Reduction	No Reduction
5925.543293	6.971121135	157.4821648	144.8835916	2024	008000	Construction	C.1 Well Drilling	15.24775295	0.539128678	No Reduction	No Reduction
7103.696418	8.357071108	188.7468202	173.6470746	2024	009000	Construction	C.1 Well Drilling	27.09387254	0.958278417	No Reduction	No Reduction
9067.284959	10.66698773	240.8545793	221.5862129	2024	010000	Construction	C.1 Well Drilling	30.89446708	1.093069483	No Reduction	No Reduction
13484.46933	15.8601023	360.6164814	331.7671629	2024	011000	Construction	C.1 Well Drilling	45.66253437	1.621029705	No Reduction	No Reduction
16846.89225	19.81478506	450.4808799	414.4424095	2024	012000	Construction	C.1 Well Drilling	75.51145195	2.681151026	No Reduction	No Reduction
20689.6613	24.3344225	553.1830496	508.9284056	2024	013000	Construction	C.1 Well Drilling	81.47450432	2.893263477	No Reduction	No Reduction
25493.12261	29.9839693	681.5607616	627.0359007	2024	014000	Construction	C.1 Well Drilling	27.89978517	0.990865968	No Reduction	No Reduction
31257.27618	36.76342545	835.6140162	768.7648949	2024	015000	Construction	C.1 Well Drilling	6.844272497	0.243096856	No Reduction	No Reduction
650.4930445	0.766405804	9.567177173	8.801802999	2025	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	12.43192262	11.43736881	2025	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	15.29666807	14.07293462	2025	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	18.16141351	16.70850043	2025	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	23.8909044	21.97963205	2025	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	103.286051	95.02316693	2025	006000	Construction	C.1 Well Drilling	36.71983953	1.310117771	No Reduction	No Reduction
4747.390168	5.585171161	123.7486731	113.8487792	2025	007000	Construction	C.1 Well Drilling	27.13927139	0.968805392	No Reduction	No Reduction
5925.543293	6.971121135	154.4426061	142.0871976	2025	008000	Construction	C.1 Well Drilling	15.1576096	0.541376596	No Reduction	No Reduction
7103.696418	8.357071108	185.1365392	170.325616	2025	009000	Construction	C.1 Well Drilling	26.9352659	0.962375433	No Reduction	No Reduction
9067.284959	10.66698773	236.2930943	217.3896467	2025	010000	Construction	C.1 Well Drilling	30.71556048	1.097868838	No Reduction	No Reduction
13484.46933	15.8601023	355.2807659	326.8583046	2025	011000	Construction	C.1 Well Drilling	45.46309962	1.632176614	No Reduction	No Reduction
16846.89225	19.81478506	443.8577221	408.3491044	2025	012000	Construction	C.1 Well Drilling	75.18395188	2.699740875	No Reduction	No Reduction
20689.6613	24.3344225	545.0885293	501.481447	2025	013000	Construction	C.1 Well Drilling	81.12299165	2.913447073	No Reduction	No Reduction
25493.12261	29.9839693	671.6270382	617.8968752	2025	014000	Construction	C.1 Well Drilling	27.77993776	0.997813131	No Reduction	No Reduction
31257.27618	36.76342545	823.473249	757.5953891	2025	015000	Construction	C.1 Well Drilling	6.814973886	0.244808043	No Reduction	No Reduction
650.4930445	0.766405804	8.829692143	8.123316771	2026	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	11.49217578	10.57280172	2026	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	14.15465942	13.02228666	2026	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	16.81714305	15.47177161	2026	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	22.14211033	20.3707415	2026	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	61.34753113	56.43972864	2026	006000	Construction	C.1 Well Drilling	26.170396	0.957576198	No Reduction	No Reduction
4747.390168	5.585171161	73.44858911	67.57270198	2026	007000	Construction	C.1 Well Drilling	19.33672976	0.707812501	No Reduction	No Reduction
5925.543293	6.971121135	91.60017608	84.27216199	2026	008000	Construction	C.1 Well Drilling	10.79668958	0.395365908	No Reduction	No Reduction
7103.696418	8.357071108	109.751763	100.971622	2026	009000	Construction	C.1 Well Drilling	19.1821692	0.702623436	No Reduction	No Reduction
9067.284959	10.66698773	140.004408	128.8040554	2026	010000	Construction	C.1 Well Drilling	21.86976184	0.801301644	No Reduction	No Reduction
13484.46933	15.8601023	208.1908107	191.5355459	2026	011000	Construction	C.1 Well Drilling	32.23137056	1.181286023	No Reduction	No Reduction
16846.89225	19.81478506	260.0279531	239.2257169	2026	012000	Construction	C.1 Well Drilling	53.29677913	1.953636377	No Reduction	No Reduction
20689.6613	24.3344225	319.2704015	293.7287694	2026	013000	Construction	C.1 Well Drilling	59.09983828	2.166599529	No Reduction	No Reduction
25493.12261	29.9839693	393.3234621	361.8575851	2026	014000	Construction	C.1 Well Drilling	19.69007498	0.721906117	No Reduction	No Reduction
31257.27618	36.76342545	482.1871347	443.6121639	2026	015000	Construction	C.1 Well Drilling	4.830130307	0.177102542	No Reduction	No Reduction
650.4930445	0.766405804	8.101693118	7.453557668	2027	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction

2.693913962	2.478400851	41	2023	1.55158413	0.054372	No Reduction	No Reduction	0.05522524	0.05080722
2.907370326	2.674780694	36	2023	1.46992205	0.05151626	No Reduction	No Reduction	0.05233267	0.04814605
0.995791906	0.916128554	10	2023	0.13981825	0.00490067	No Reduction	No Reduction	0.00497896	0.00458064
0.244323857	0.224777949	2	2023	0.00685985	0.00024046	No Reduction	No Reduction	0.00024432	0.00022478
No Reduction	No Reduction	327	2024	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1599	2024	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1142	2024	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	221	2024	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	368	2024	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
1.275945061	1.173869464	91	2024	1.68098192	0.05938154	No Reduction	No Reduction	0.0580555	0.05341106
0.927095769	0.852928114	55	2024	0.73742622	0.02606186	No Reduction	No Reduction	0.02549513	0.02345552
0.527723424	0.485505549	25	2024	0.19059691	0.00673911	No Reduction	No Reduction	0.00659654	0.00606882
0.938385733	0.863314882	37	2024	0.50123664	0.01772815	No Reduction	No Reduction	0.01736014	0.01597133
1.070852125	0.985183948	33	2024	0.50975871	0.01803565	No Reduction	No Reduction	0.01766906	0.01625554
1.611020936	1.482139258	31	2024	0.70776928	0.02512596	No Reduction	No Reduction	0.02497082	0.02297316
2.66523205	2.452013492	41	2024	1.54798477	0.0549636	No Reduction	No Reduction	0.05463726	0.05026628
2.87659663	2.646468893	36	2024	1.46654108	0.05207874	No Reduction	No Reduction	0.05177874	0.04763644
0.985302917	0.906478684	10	2024	0.13949893	0.00495433	No Reduction	No Reduction	0.00492651	0.00453239
0.241760295	0.222419472	2	2024	0.00684427	0.0002431	No Reduction	No Reduction	0.00024176	0.00022242
No Reduction	No Reduction	328	2025	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1601	2025	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1144	2025	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	221	2025	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	368	2025	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
1.248793042	1.148889607	91	2025	1.6707527	0.05961036	No Reduction	No Reduction	0.05682008	0.05227448
0.924108238	0.850179586	56	2025	0.7598996	0.02712655	No Reduction	No Reduction	0.02587503	0.02380503
0.516766173	0.475424878	25	2025	0.18947012	0.00676721	No Reduction	No Reduction	0.00645958	0.00594281
0.919064209	0.845539079	37	2025	0.49830242	0.01780395	No Reduction	No Reduction	0.01700269	0.01564247
1.049005065	0.965084652	33	2025	0.50680675	0.01811484	No Reduction	No Reduction	0.01730858	0.0159239
1.584817542	1.458032135	31	2025	0.70467804	0.02529874	No Reduction	No Reduction	0.02456467	0.0225995
2.622131121	2.412360637	41	2025	1.54127101	0.05534469	No Reduction	No Reduction	0.05375369	0.04945339
2.830278071	2.603855819	36	2025	1.46021385	0.05244205	No Reduction	No Reduction	0.05094501	0.0468694
0.969494436	0.891934881	10	2025	0.13889969	0.00498907	No Reduction	No Reduction	0.00484747	0.00445967
0.237892482	0.218861084	2	2025	0.00681497	0.00024481	No Reduction	No Reduction	0.00023789	0.00021886
No Reduction	No Reduction	328	2026	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1603	2026	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1146	2026	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	222	2026	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	368	2026	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
0.740625759	0.681375703	91	2026	1.19075302	0.04356972	No Reduction	No Reduction	0.03369847	0.03100259
0.54766965	0.503856082	56	2026	0.54142843	0.01981875	No Reduction	No Reduction	0.01533475	0.01410797
0.306038588	0.281555501	25	2026	0.13495862	0.00494207	No Reduction	No Reduction	0.00382548	0.00351944
0.544024106	0.500502182	37	2026	0.35487013	0.01299853	No Reduction	No Reduction	0.01006445	0.00925929
0.620613461	0.57096438	33	2026	0.36085107	0.01322148	No Reduction	No Reduction	0.01024012	0.00942091
0.927303834	0.853119525	31	2026	0.49958624	0.01830993	No Reduction	No Reduction	0.01437321	0.01322335
1.533852463	1.41114427	41	2026	1.09258397	0.04004955	No Reduction	No Reduction	0.03144398	0.02892846
1.701268541	1.565167054	37	2026	1.09334701	0.04008209	No Reduction	No Reduction	0.03147347	0.02895559
0.566917585	0.521564178	10	2026	0.09845037	0.00360953	No Reduction	No Reduction	0.00283459	0.00260782
0.139091236	0.127963937	2	2026	0.00483013	0.0001771	No Reduction	No Reduction	0.00013909	0.00012796
No Reduction	No Reduction	329	2027	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction

1.661181369	41	0.040516619	282.5628991	2023
1.573770968	36	0.04371586	304.8744092	2023
0.149697873	10	0.014969787	104.399297	2023
0.007344632	2	0.003672316	25.61073265	2023
No Reduction	327	No Reduction	No Reduction	2024
No Reduction	1599	No Reduction	No Reduction	2024
No Reduction	1142	No Reduction	No Reduction	2024
No Reduction	221	No Reduction	No Reduction	2024
No Reduction	368	No Reduction	No Reduction	2024
1.798418963	91	0.019762846	137.8260862	2024
0.788983215	55	0.014345149	100.0430717	2024
0.203932563	25	0.008157303	56.88902782	2024
0.536324929	37	0.014495268	101.0900014	2024
0.545463413	33	0.016529194	115.2746013	2024
0.757866068	31	0.024447293	170.4954179	2024
1.657585618	41	0.040428918	281.9512707	2024
1.57039856	36	0.043622182	304.2210988	2024
0.14937977	10	0.014937977	104.1774518	2024
0.00732913	2	0.003664565	25.55667509	2024
No Reduction	328	No Reduction	No Reduction	2025
No Reduction	1601	No Reduction	No Reduction	2025
No Reduction	1144	No Reduction	No Reduction	2025
No Reduction	221	No Reduction	No Reduction	2025
No Reduction	368	No Reduction	No Reduction	2025
1.787183141	91	0.019639375	136.9650025	2025
0.812901181	56	0.014516093	101.2352292	2025
0.202696905	25	0.008107876	56.5443285	2025
0.533109053	37	0.014408353	100.4838522	2025
0.542230167	33	0.016431217	114.5913087	2025
0.754541453	31	0.024340047	169.747487	2025
1.650369389	41	0.040252912	280.7238079	2025
1.563600902	36	0.043433358	302.9042415	2025
0.148736227	10	0.014873623	103.7286445	2025
0.007297674	2	0.003648837	25.44699067	2025
No Reduction	328	No Reduction	No Reduction	2026
No Reduction	1603	No Reduction	No Reduction	2026
No Reduction	1146	No Reduction	No Reduction	2026
No Reduction	222	No Reduction	No Reduction	2026
No Reduction	368	No Reduction	No Reduction	2026
1.268021207	91	0.013934299	97.17780109	2026
0.576581934	56	0.010296106	71.80504294	2026
0.143726176	25	0.005749047	40.09385405	2026
0.37793311	37	0.010214408	71.23528397	2026
0.38431267	33	0.011645838	81.21807751	2026
0.532269387	31	0.01716998	119.743442	2026
1.164077493	41	0.028392134	198.0067424	2026
1.164902568	37	0.031483853	219.5683921	2026
0.104894493	10	0.010489449	73.1534197	2026
0.005146324	2	0.002573162	17.94523208	2026
No Reduction	329	No Reduction	No Reduction	2027

	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2027	002000	Construction	C.1 Well Drilling	310.3226543	29.23918253
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2027	003000	Construction	C.1 Well Drilling	383.2058981	36.19257436
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2027	004000	Construction	C.1 Well Drilling	456.089142	43.14596618
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2027	005000	Construction	C.1 Well Drilling	601.8556298	57.05274983
	6000	0.95%	0.72%	No Reduct	No Reduct	1.21%	1.21%	2027	006000	Construction	C.1 Well Drilling	2732.765427	134.013557
	7000	0.59%	0.44%	No Reduct	No Reduct	0.74%	0.74%	2027	007000	Construction	C.1 Well Drilling	3275.560577	160.5311453
2027	8000	0.26%	0.20%	No Reduct	No Reduct	0.33%	0.33%	2027	008000	Construction	C.1 Well Drilling	4089.753302	200.3075278
	9000	0.40%	0.30%	No Reduct	No Reduct	0.51%	0.51%	2027	009000	Construction	C.1 Well Drilling	4903.946026	240.0839103
	10000	0.35%	0.26%	No Reduct	No Reduct	0.44%	0.44%	2027	010000	Construction	C.1 Well Drilling	6260.9339	306.3778812
	11000	0.34%	0.26%	No Reduct	No Reduct	0.44%	0.44%	2027	011000	Construction	C.1 Well Drilling	9482.797117	456.3735298
	12000	0.45%	0.35%	No Reduct	No Reduct	0.59%	0.59%	2027	012000	Construction	C.1 Well Drilling	11848.79898	570.1105084
	13000	0.40%	0.31%	No Reduct	No Reduct	0.53%	0.53%	2027	013000	Construction	C.1 Well Drilling	14552.8011	700.0956269
	14000	0.11%	0.08%	No Reduct	No Reduct	0.14%	0.14%	2027	014000	Construction	C.1 Well Drilling	17932.80376	862.5770249
	15000	0.02%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2027	015000	Construction	C.1 Well Drilling	21988.80695	1057.554703
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2028	001000	Construction	C.1 Well Drilling	220.3047946	21.91287962
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2028	002000	Construction	C.1 Well Drilling	287.738463	28.7537402
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2028	003000	Construction	C.1 Well Drilling	355.1721314	35.59460077
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2028	004000	Construction	C.1 Well Drilling	422.6057999	42.43546135
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2028	005000	Construction	C.1 Well Drilling	557.4731368	56.11718251
	6000	0.95%	0.72%	No Reduct	No Reduct	1.20%	1.20%	2028	006000	Construction	C.1 Well Drilling	2729.804588	136.2304136
	7000	0.58%	0.44%	No Reduct	No Reduct	0.74%	0.74%	2028	007000	Construction	C.1 Well Drilling	3272.164748	163.1984367
2028	8000	0.26%	0.20%	No Reduct	No Reduct	0.33%	0.33%	2028	008000	Construction	C.1 Well Drilling	4085.704988	203.6504715
	9000	0.40%	0.30%	No Reduct	No Reduct	0.51%	0.51%	2028	009000	Construction	C.1 Well Drilling	4899.245228	244.1025062
	10000	0.35%	0.26%	No Reduct	No Reduct	0.44%	0.44%	2028	010000	Construction	C.1 Well Drilling	6255.145627	311.522564
	11000	0.34%	0.26%	No Reduct	No Reduct	0.44%	0.44%	2028	011000	Construction	C.1 Well Drilling	9482.668135	464.5924702
	12000	0.45%	0.35%	No Reduct	No Reduct	0.59%	0.59%	2028	012000	Construction	C.1 Well Drilling	11848.83422	580.3930133
	13000	0.40%	0.31%	No Reduct	No Reduct	0.53%	0.53%	2028	013000	Construction	C.1 Well Drilling	14553.02403	712.7364911
	14000	0.11%	0.08%	No Reduct	No Reduct	0.14%	0.14%	2028	014000	Construction	C.1 Well Drilling	17933.2613	878.1658384
	15000	0.02%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2028	015000	Construction	C.1 Well Drilling	21989.54602	1076.681055
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2029	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2029	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2029	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2029	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2029	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.95%	0.72%	No Reduct	No Reduct	1.20%	1.20%	2029	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.58%	0.44%	No Reduct	No Reduct	0.74%	0.74%	2029	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2029	8000	0.26%	0.20%	No Reduct	No Reduct	0.33%	0.33%	2029	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.40%	0.30%	No Reduct	No Reduct	0.51%	0.51%	2029	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.35%	0.26%	No Reduct	No Reduct	0.44%	0.44%	2029	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.34%	0.26%	No Reduct	No Reduct	0.44%	0.44%	2029	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.45%	0.35%	No Reduct	No Reduct	0.59%	0.59%	2029	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.40%	0.31%	No Reduct	No Reduct	0.53%	0.53%	2029	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.11%	0.08%	No Reduct	No Reduct	0.14%	0.14%	2029	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.02%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2029	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2030	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2030	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2030	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2030	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2030	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.95%	0.72%	No Reduct	No Reduct	1.20%	1.20%	2030	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451

855.7315035	1.008083983	10.56198754	9.71702854	2027	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	13.02228197	11.98049941	2027	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	15.48257639	14.24397028	2027	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	20.40316524	18.77091203	2027	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	59.61227168	54.84328995	2027	006000	Construction	C.1 Well Drilling	25.95595852	0.966155724	No Reduction	No Reduction
4747.390168	5.585171161	71.39056405	65.67931893	2027	007000	Construction	C.1 Well Drilling	19.17978885	0.714247013	No Reduction	No Reduction
5925.543293	6.971121135	89.05800261	81.9333624	2027	008000	Construction	C.1 Well Drilling	10.70990223	0.399012082	No Reduction	No Reduction
7103.696418	8.357071108	106.7254412	98.18740587	2027	009000	Construction	C.1 Well Drilling	19.54327116	0.728331675	No Reduction	No Reduction
9067.284959	10.66698773	136.1711721	125.2774783	2027	010000	Construction	C.1 Well Drilling	21.69634209	0.808838828	No Reduction	No Reduction
13484.46933	15.8601023	203.5993388	187.3113917	2027	011000	Construction	C.1 Well Drilling	32.03398679	1.195655912	No Reduction	No Reduction
16846.89225	19.81478506	254.3189711	233.9734534	2027	012000	Construction	C.1 Well Drilling	52.97187205	1.977496234	No Reduction	No Reduction
20689.6613	24.3344225	312.2842651	287.3015239	2027	013000	Construction	C.1 Well Drilling	58.74077732	2.193138501	No Reduction	No Reduction
25493.12261	29.9839693	384.7408826	353.961612	2027	014000	Construction	C.1 Well Drilling	19.57078441	0.730770367	No Reduction	No Reduction
31257.27618	36.76342545	471.6888236	433.9537177	2027	015000	Construction	C.1 Well Drilling	4.800932941	0.17928137	No Reduction	No Reduction
650.4930445	0.766405804	7.431979033	6.83742071	2028	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	9.688992596	8.913873189	2028	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	11.94600616	10.99032567	2028	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	14.20301972	13.06677815	2028	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	18.71704685	17.2196831	2028	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	58.97986828	54.26147881	2028	006000	Construction	C.1 Well Drilling	25.88934868	0.980680005	No Reduction	No Reduction
4747.390168	5.585171161	70.64365426	64.99216192	2028	007000	Construction	C.1 Well Drilling	19.13146361	0.725036668	No Reduction	No Reduction
5925.543293	6.971121135	88.13933324	81.08818658	2028	008000	Construction	C.1 Well Drilling	10.68341866	0.405069033	No Reduction	No Reduction
7103.696418	8.357071108	105.6350122	97.18421124	2028	009000	Construction	C.1 Well Drilling	19.49555498	0.739423465	No Reduction	No Reduction
9067.284959	10.66698773	134.7944772	124.010919	2028	010000	Construction	C.1 Well Drilling	21.64410711	0.821199998	No Reduction	No Reduction
13484.46933	15.8601023	202.0884447	185.9213691	2028	011000	Construction	C.1 Well Drilling	31.98600003	1.215381955	No Reduction	No Reduction
16846.89225	19.81478506	252.4453213	232.2496956	2028	012000	Construction	C.1 Well Drilling	52.89339722	2.010173962	No Reduction	No Reduction
20689.6613	24.3344225	309.9960374	285.1963544	2028	013000	Construction	C.1 Well Drilling	58.65448022	2.229423308	No Reduction	No Reduction
25493.12261	29.9839693	381.9344325	351.3796779	2028	014000	Construction	C.1 Well Drilling	19.54223186	0.742872752	No Reduction	No Reduction
31257.27618	36.76342545	468.2605067	430.7996662	2028	015000	Construction	C.1 Well Drilling	4.793967497	0.182252814	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2029	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2029	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2029	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2029	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2029	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2029	006000	Construction	C.1 Well Drilling	25.84376733	0.992757375	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2029	007000	Construction	C.1 Well Drilling	19.09841009	0.734008419	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2029	008000	Construction	C.1 Well Drilling	10.6653133	0.410105379	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2029	009000	Construction	C.1 Well Drilling	19.4629451	0.748646158	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2029	010000	Construction	C.1 Well Drilling	21.60842253	0.831478029	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2029	011000	Construction	C.1 Well Drilling	31.9612883	1.232676658	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2029	012000	Construction	C.1 Well Drilling	52.85315373	2.038822357	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2029	013000	Construction	C.1 Well Drilling	58.61036616	2.261232666	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2029	014000	Construction	C.1 Well Drilling	19.52767522	0.753482032	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2029	015000	Construction	C.1 Well Drilling	4.790424046	0.18485759	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2030	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2030	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2030	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2030	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2030	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2030	006000	Construction	C.1 Well Drilling	25.80551805	0.991288075	No Reduction	No Reduction

No Reduction	No Reduction	1604	2027	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1148	2027	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	222	2027	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	369	2027	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
0.718606736	0.661118202	91	2027	1.18099611	0.04396009	No Reduction	No Reduction	0.03269661	0.03008088
0.531532616	0.48901001	56	2027	0.53703409	0.01999892	No Reduction	No Reduction	0.01488291	0.01369228
0.297102784	0.27333456	25	2027	0.13387378	0.00498765	No Reduction	No Reduction	0.00371378	0.00341668
0.542513261	0.499112204	38	2027	0.37132215	0.0138383	No Reduction	No Reduction	0.01030775	0.00948313
0.602724084	0.554506153	33	2027	0.35798964	0.01334584	No Reduction	No Reduction	0.00994495	0.00914935
0.905504788	0.833064403	31	2027	0.4965268	0.01853267	No Reduction	No Reduction	0.01403532	0.0129125
1.497946137	1.378110449	41	2027	1.08592338	0.04053867	No Reduction	No Reduction	0.0307079	0.02825126
1.661568321	1.528642852	37	2027	1.08670438	0.04057306	No Reduction	No Reduction	0.03073901	0.02827989
0.553722665	0.509424852	10	2027	0.09785392	0.00365385	No Reduction	No Reduction	0.00276861	0.00254712
0.135860629	0.124991779	2	2027	0.00480093	0.00017928	No Reduction	No Reduction	0.00013586	0.00012499
No Reduction	No Reduction	329	2028	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1608	2028	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1150	2028	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	222	2028	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	369	2028	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
0.709927923	0.653133694	91	2028	1.17796536	0.04462094	No Reduction	No Reduction	0.03230172	0.02971758
0.525190801	0.48317554	56	2028	0.53568098	0.02030103	No Reduction	No Reduction	0.01470534	0.01352892
0.293601574	0.270113448	25	2028	0.13354273	0.00506336	No Reduction	No Reduction	0.00367002	0.00337642
0.53617324	0.493279385	38	2028	0.37041554	0.01404905	No Reduction	No Reduction	0.01018729	0.00937231
0.595744878	0.548085284	33	2028	0.35712777	0.0135498	No Reduction	No Reduction	0.00982979	0.00904341
0.897450942	0.825654864	31	2028	0.495783	0.01883842	No Reduction	No Reduction	0.01391049	0.01279765
1.484703095	1.365926851	41	2028	1.08431464	0.04120857	No Reduction	No Reduction	0.03043641	0.0280015
1.646944985	1.515189383	37	2028	1.08510788	0.04124433	No Reduction	No Reduction	0.03046848	0.028031
0.548867639	0.504958228	10	2028	0.09771116	0.00371436	No Reduction	No Reduction	0.00274434	0.00252479
0.134672963	0.123899126	2	2028	0.00479397	0.00018225	No Reduction	No Reduction	0.00013467	0.0001239
No Reduction	No Reduction	330	2029	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1610	2029	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1152	2029	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	222	2029	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	370	2029	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
0.70449519	0.648135579	91	2029	1.17589141	0.04517046	No Reduction	No Reduction	0.03205453	0.02949017
0.521237425	0.479538435	56	2029	0.53475548	0.02055224	No Reduction	No Reduction	0.01459465	0.01342708
0.291428329	0.268114062	25	2029	0.13331642	0.00512632	No Reduction	No Reduction	0.00364285	0.00335143
0.532249467	0.489669514	38	2029	0.36979596	0.01422428	No Reduction	No Reduction	0.01011274	0.00930372
0.591439634	0.544124459	33	2029	0.35653897	0.01371939	No Reduction	No Reduction	0.00975875	0.00897805
0.893035008	0.821592206	31	2029	0.49539997	0.01910649	No Reduction	No Reduction	0.01384204	0.01273468
1.477465149	1.35926794	41	2029	1.08348965	0.04179586	No Reduction	No Reduction	0.03028804	0.02786499
1.638971958	1.507854198	37	2029	1.08429177	0.0418328	No Reduction	No Reduction	0.03032098	0.0278953
0.546225893	0.502527822	10	2029	0.09763838	0.00376741	No Reduction	No Reduction	0.00273113	0.00251264
0.134027768	0.123305547	2	2029	0.00479042	0.00018486	No Reduction	No Reduction	0.00013403	0.00012331
No Reduction	No Reduction	330	2030	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1613	2030	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1153	2030	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	223	2030	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	371	2030	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
0.703452523	0.647176325	91	2030	1.17415107	0.04510361	No Reduction	No Reduction	0.03200709	0.02944652

No Reduction	1604	No Reduction	No Reduction	2027
No Reduction	1148	No Reduction	No Reduction	2027
No Reduction	222	No Reduction	No Reduction	2027
No Reduction	369	No Reduction	No Reduction	2027
1.257652805	91	0.01382036	96.38319407	2027
0.571915917	56	0.010212784	71.22395727	2027
0.142575214	25	0.005703009	39.77278162	2027
0.395468206	38	0.010407058	72.57882282	2027
0.381280432	33	0.011553952	80.57726473	2027
0.529094786	31	0.017067574	119.0292593	2027
1.157169946	41	0.028223657	196.8317854	2027
1.158016457	37	0.031297742	218.2704532	2027
0.104276387	10	0.010427639	72.72235244	2027
0.005116075	2	0.002558037	17.83975332	2027
No Reduction	329	No Reduction	No Reduction	2028
No Reduction	1608	No Reduction	No Reduction	2028
No Reduction	1150	No Reduction	No Reduction	2028
No Reduction	222	No Reduction	No Reduction	2028
No Reduction	369	No Reduction	No Reduction	2028
1.254888025	91	0.013789978	96.17130868	2028
0.57068735	56	0.010190846	71.0709568	2028
0.142276116	25	0.005691045	39.68934527	2028
0.394651882	38	0.010385576	72.42900594	2028
0.380507358	33	0.011530526	80.41388827	2028
0.52853191	31	0.017049416	118.9026304	2028
1.155959623	41	0.028194137	196.6259124	2028
1.156820697	37	0.031265424	218.0450688	2028
0.104169861	10	0.010416986	72.64806125	2028
0.005110893	2	0.002555447	17.82168484	2028
No Reduction	330	No Reduction	No Reduction	2029
No Reduction	1610	No Reduction	No Reduction	2029
No Reduction	1152	No Reduction	No Reduction	2029
No Reduction	222	No Reduction	No Reduction	2029
No Reduction	370	No Reduction	No Reduction	2029
1.253116405	91	0.01377051	96.03553638	2029
0.569902366	56	0.010176828	70.97319823	2029
0.142085588	25	0.005683424	39.63619551	2029
0.394132974	38	0.01037192	72.33377261	2029
0.380017113	33	0.01151567	80.31028324	2029
0.528348499	31	0.0170435	118.8613689	2029
1.155573545	41	0.028184721	196.5602416	2029
1.15644556	37	0.031255285	217.9743603	2029
0.104136916	10	0.010413692	72.62508504	2029
0.005109309	2	0.002554655	17.81616189	2029
No Reduction	330	No Reduction	No Reduction	2030
No Reduction	1613	No Reduction	No Reduction	2030
No Reduction	1153	No Reduction	No Reduction	2030
No Reduction	223	No Reduction	No Reduction	2030
No Reduction	371	No Reduction	No Reduction	2030
1.251261768	91	0.013750129	95.89340189	2030

	7000	0.58%	0.44%	No Reduct	No Reduct	0.74%	0.74%	2030	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2030	8000	0.26%	0.20%	No Reduct	No Reduct	0.33%	0.33%	2030	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.40%	0.30%	No Reduct	No Reduct	0.51%	0.51%	2030	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.34%	0.26%	No Reduct	No Reduct	0.44%	0.44%	2030	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.34%	0.26%	No Reduct	No Reduct	0.44%	0.44%	2030	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.45%	0.35%	No Reduct	No Reduct	0.59%	0.59%	2030	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.40%	0.31%	No Reduct	No Reduct	0.53%	0.53%	2030	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.11%	0.08%	No Reduct	No Reduct	0.14%	0.14%	2030	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.02%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2030	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2031	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2031	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2031	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2031	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2031	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.94%	0.72%	No Reduct	No Reduct	1.20%	1.20%	2031	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.58%	0.44%	No Reduct	No Reduct	0.74%	0.74%	2031	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2031	8000	0.26%	0.20%	No Reduct	No Reduct	0.33%	0.33%	2031	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.40%	0.30%	No Reduct	No Reduct	0.51%	0.51%	2031	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.34%	0.26%	No Reduct	No Reduct	0.44%	0.44%	2031	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.35%	0.27%	No Reduct	No Reduct	0.46%	0.46%	2031	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.44%	0.34%	No Reduct	No Reduct	0.59%	0.59%	2031	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.40%	0.31%	No Reduct	No Reduct	0.53%	0.53%	2031	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.11%	0.08%	No Reduct	No Reduct	0.14%	0.14%	2031	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.02%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2031	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2032	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2032	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2032	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2032	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2032	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.94%	0.72%	No Reduct	No Reduct	1.20%	1.20%	2032	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.58%	0.44%	No Reduct	No Reduct	0.74%	0.74%	2032	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2032	8000	0.26%	0.20%	No Reduct	No Reduct	0.33%	0.33%	2032	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.40%	0.30%	No Reduct	No Reduct	0.50%	0.50%	2032	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.34%	0.26%	No Reduct	No Reduct	0.44%	0.44%	2032	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.35%	0.27%	No Reduct	No Reduct	0.46%	0.46%	2032	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.44%	0.34%	No Reduct	No Reduct	0.58%	0.58%	2032	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.40%	0.31%	No Reduct	No Reduct	0.53%	0.53%	2032	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.11%	0.08%	No Reduct	No Reduct	0.14%	0.14%	2032	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.02%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2032	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2033	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2033	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2033	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2033	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2033	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.94%	0.71%	No Reduct	No Reduct	1.20%	1.20%	2033	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.58%	0.44%	No Reduct	No Reduct	0.74%	0.74%	2033	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2033	8000	0.27%	0.21%	No Reduct	No Reduct	0.34%	0.34%	2033	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.40%	0.30%	No Reduct	No Reduct	0.50%	0.50%	2033	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.34%	0.26%	No Reduct	No Reduct	0.44%	0.44%	2033	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.35%	0.27%	No Reduct	No Reduct	0.46%	0.46%	2033	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126

4747.390168	5.585171161	70.21595899	64.59868227	2030	007000	Construction	C.1 Well Drilling	19.07014406	0.732922072	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2030	008000	Construction	C.1 Well Drilling	10.64952842	0.409498415	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2030	009000	Construction	C.1 Well Drilling	19.43413956	0.747538147	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2030	010000	Construction	C.1 Well Drilling	21.57644164	0.830247425	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2030	011000	Construction	C.1 Well Drilling	31.91398496	1.230852272	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2030	012000	Construction	C.1 Well Drilling	52.77493002	2.03580486	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2030	013000	Construction	C.1 Well Drilling	58.52362166	2.257885997	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2030	014000	Construction	C.1 Well Drilling	19.49877388	0.752366863	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2030	015000	Construction	C.1 Well Drilling	4.783334124	0.184583997	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2031	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2031	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2031	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2031	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2031	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2031	006000	Construction	C.1 Well Drilling	25.76738181	0.989823117	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2031	007000	Construction	C.1 Well Drilling	19.04196158	0.731838936	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2031	008000	Construction	C.1 Well Drilling	10.6337902	0.408893245	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2031	009000	Construction	C.1 Well Drilling	19.40541915	0.746433411	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2031	010000	Construction	C.1 Well Drilling	21.54455527	0.829020458	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2031	011000	Construction	C.1 Well Drilling	32.89478342	1.268679513	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2031	012000	Construction	C.1 Well Drilling	52.69693751	2.032796281	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2031	013000	Construction	C.1 Well Drilling	58.43713355	2.25454922	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2031	014000	Construction	C.1 Well Drilling	19.46995796	0.751254991	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2031	015000	Construction	C.1 Well Drilling	4.776265158	0.184311213	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2032	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2032	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2032	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2032	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2032	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2032	006000	Construction	C.1 Well Drilling	25.72935813	0.988362483	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2032	007000	Construction	C.1 Well Drilling	19.01386228	0.730758997	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2032	008000	Construction	C.1 Well Drilling	10.61809843	0.408289861	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2032	009000	Construction	C.1 Well Drilling	19.37678351	0.745331935	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2032	010000	Construction	C.1 Well Drilling	21.51276301	0.827797113	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2032	011000	Construction	C.1 Well Drilling	32.84624218	1.266807384	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2032	012000	Construction	C.1 Well Drilling	52.61917518	2.029796582	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2032	013000	Construction	C.1 Well Drilling	58.35090069	2.25122229	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2032	014000	Construction	C.1 Well Drilling	19.44122708	0.7501464	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2032	015000	Construction	C.1 Well Drilling	4.769217054	0.184039233	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2033	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2033	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2033	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2033	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2033	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2033	006000	Construction	C.1 Well Drilling	25.69775735	0.987148577	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2033	007000	Construction	C.1 Well Drilling	18.99050946	0.729861479	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2033	008000	Construction	C.1 Well Drilling	11.02925958	0.424099936	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2033	009000	Construction	C.1 Well Drilling	19.35298496	0.744416519	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2033	010000	Construction	C.1 Well Drilling	21.48634104	0.826780413	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2033	011000	Construction	C.1 Well Drilling	32.80590044	1.265251492	No Reduction	No Reduction

0.520465984	0.478828709	56	2030	0.53396403	0.02052182	No Reduction	No Reduction	0.01457305	0.0134072
0.290997009	0.267717248	25	2030	0.13311911	0.00511873	No Reduction	No Reduction	0.00363746	0.00334647
0.531461727	0.488944793	38	2030	0.36924865	0.01420322	No Reduction	No Reduction	0.01009777	0.00928995
0.590564292	0.543319144	33	2030	0.35601129	0.01369908	No Reduction	No Reduction	0.00974431	0.00896477
0.891713299	0.820376233	31	2030	0.49466677	0.01907821	No Reduction	No Reduction	0.01382156	0.01271583
1.475278471	1.357256197	41	2030	1.08188607	0.041734	No Reduction	No Reduction	0.03024321	0.02782375
1.636546248	1.505622544	37	2030	1.082687	0.04177089	No Reduction	No Reduction	0.03027611	0.02785402
0.545417468	0.501784071	10	2030	0.09749387	0.00376183	No Reduction	No Reduction	0.00272709	0.00250892
0.133829405	0.123123053	2	2030	0.00478333	0.00018458	No Reduction	No Reduction	0.00013383	0.00012312
No Reduction	No Reduction	330	2031	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1616	2031	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1155	2031	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	223	2031	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	371	2031	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
0.702412938	0.646219907	91	2031	1.17241587	0.04503695	No Reduction	No Reduction	0.03195979	0.02940301
0.519696822	0.47812108	56	2031	0.53317492	0.02049149	No Reduction	No Reduction	0.01455151	0.01338739
0.290566964	0.267321606	25	2031	0.13292238	0.00511117	No Reduction	No Reduction	0.00363209	0.00334152
0.530676316	0.488222215	38	2031	0.36870296	0.01418223	No Reduction	No Reduction	0.01008285	0.00927622
0.589691537	0.54251621	33	2031	0.35548516	0.01367884	No Reduction	No Reduction	0.00972991	0.00895152
0.919117931	0.845588495	32	2031	0.52631653	0.02029887	No Reduction	No Reduction	0.01470589	0.01352942
1.473098257	1.3552504	41	2031	1.08028722	0.04167232	No Reduction	No Reduction	0.03019851	0.02778263
1.634127706	1.503397486	37	2031	1.08108697	0.04170916	No Reduction	No Reduction	0.03023136	0.02781285
0.544611432	0.501042518	10	2031	0.09734979	0.00375627	No Reduction	No Reduction	0.00272306	0.00250521
0.133631627	0.122941097	2	2031	0.00477627	0.00018431	No Reduction	No Reduction	0.00013363	0.00012294
No Reduction	No Reduction	332	2032	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1617	2032	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1157	2032	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	224	2032	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	371	2032	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
0.701376421	0.645266312	91	2032	1.17068579	0.04497049	No Reduction	No Reduction	0.03191263	0.02935962
0.518929931	0.47741554	56	2032	0.53238814	0.02046125	No Reduction	No Reduction	0.01453004	0.01336764
0.290138188	0.266927133	25	2032	0.13272623	0.00510362	No Reduction	No Reduction	0.00362673	0.00333659
0.529893222	0.487501769	38	2032	0.36815889	0.01416131	No Reduction	No Reduction	0.01006797	0.00926253
0.588821357	0.541715645	33	2032	0.35496059	0.01365865	No Reduction	No Reduction	0.00971555	0.00893831
0.917761633	0.8443407	32	2032	0.52553987	0.02026892	No Reduction	No Reduction	0.01468419	0.01350945
1.470924477	1.353250522	41	2032	1.07869309	0.04161083	No Reduction	No Reduction	0.03015395	0.02774164
1.631716303	1.501178995	37	2032	1.07949166	0.04164761	No Reduction	No Reduction	0.03018675	0.02777181
0.543807776	0.500303154	10	2032	0.09720614	0.00375073	No Reduction	No Reduction	0.00271904	0.00250152
0.133434433	0.122759679	2	2032	0.00476922	0.00018404	No Reduction	No Reduction	0.00013343	0.00012276
No Reduction	No Reduction	332	2033	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1617	2033	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1159	2033	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	224	2033	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	372	2033	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
0.700514991	0.644473796	91	2033	1.16924796	0.04491526	No Reduction	No Reduction	0.03187343	0.02932356
0.518292581	0.476829178	56	2033	0.53173426	0.02043612	No Reduction	No Reduction	0.01451219	0.01335122
0.301373114	0.277263265	26	2033	0.14338037	0.0055133	No Reduction	No Reduction	0.00391785	0.00360442
0.529242408	0.486903019	38	2033	0.36770671	0.01414391	No Reduction	No Reduction	0.01005561	0.00925116
0.588098167	0.54105031	33	2033	0.35452463	0.01364188	No Reduction	No Reduction	0.00970362	0.00892733
0.916634439	0.843303682	32	2033	0.52489441	0.02024402	No Reduction	No Reduction	0.01466615	0.01349286

0.569058899	56	0.010161766	70.86815649	2030
0.141875298	25	0.005675012	39.57753316	2030
0.393549649	38	0.01035657	72.2267172	2030
0.37945468	33	0.011498627	80.19142244	2030
0.527566533	31	0.017018275	118.6854517	2030
1.153863274	41	0.028143007	196.2693285	2030
1.154733997	37	0.031209027	217.651754	2030
0.103982791	10	0.010398279	72.51759848	2030
0.005101748	2	0.002550874	17.78979362	2030
No Reduction	330	No Reduction	No Reduction	2031
No Reduction	1616	No Reduction	No Reduction	2031
No Reduction	1155	No Reduction	No Reduction	2031
No Reduction	223	No Reduction	No Reduction	2031
No Reduction	371	No Reduction	No Reduction	2031
1.249412613	91	0.013729809	95.7516875	2031
0.568217926	56	0.010146749	70.76342523	2031
0.14166563	25	0.005666625	39.51904419	2031
0.392968049	38	0.010341264	72.11997821	2031
0.37889391	33	0.011481634	80.07291295	2031
0.561321294	32	0.01754129	122.3329595	2031
1.152158057	41	0.028101416	195.9792753	2031
1.153027494	37	0.031162905	217.3301011	2031
0.103829122	10	0.010382912	72.41042961	2031
0.005094208	2	0.002547104	17.76350329	2031
No Reduction	332	No Reduction	No Reduction	2032
No Reduction	1617	No Reduction	No Reduction	2032
No Reduction	1157	No Reduction	No Reduction	2032
No Reduction	224	No Reduction	No Reduction	2032
No Reduction	371	No Reduction	No Reduction	2032
1.247568915	91	0.013709549	95.61039136	2032
0.567379434	56	0.010131776	70.65900305	2032
0.141456581	25	0.005658263	39.46072785	2032
0.392388165	38	0.010326004	72.01355423	2032
0.378334794	33	0.011464691	79.95475322	2032
0.560492979	32	0.017515406	122.1524386	2032
1.150457873	41	0.028059948	195.6900782	2032
1.151326027	37	0.03111692	217.0093976	2032
0.103675906	10	0.010367591	72.30357704	2032
0.005086691	2	0.002543345	17.73729054	2032
No Reduction	332	No Reduction	No Reduction	2033
No Reduction	1617	No Reduction	No Reduction	2033
No Reduction	1159	No Reduction	No Reduction	2033
No Reduction	224	No Reduction	No Reduction	2033
No Reduction	372	No Reduction	No Reduction	2033
1.246036652	91	0.01369271	95.49296273	2033
0.566682579	56	0.010119332	70.5722197	2033
0.152811524	26	0.005877366	40.98875269	2033
0.391906234	38	0.010313322	71.92510723	2033
0.377870124	33	0.01145061	79.85655283	2033
0.559804582	32	0.017493893	122.0024111	2033

	12000	0.45%	0.35%	No Reduct	No Reduct	0.60%	0.60%	2033	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.40%	0.31%	No Reduct	No Reduct	0.53%	0.53%	2033	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.11%	0.08%	No Reduct	No Reduct	0.14%	0.14%	2033	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.02%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2033	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2034	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2034	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2034	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2034	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2034	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.94%	0.71%	No Reduct	No Reduct	1.19%	1.19%	2034	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.58%	0.44%	No Reduct	No Reduct	0.74%	0.74%	2034	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2034	8000	0.27%	0.21%	No Reduct	No Reduct	0.34%	0.34%	2034	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.39%	0.30%	No Reduct	No Reduct	0.50%	0.50%	2034	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.34%	0.26%	No Reduct	No Reduct	0.44%	0.44%	2034	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.35%	0.27%	No Reduct	No Reduct	0.45%	0.45%	2034	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.45%	0.35%	No Reduct	No Reduct	0.60%	0.60%	2034	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.40%	0.31%	No Reduct	No Reduct	0.53%	0.53%	2034	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.11%	0.08%	No Reduct	No Reduct	0.14%	0.14%	2034	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.02%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2034	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176
	1000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2035	001000	Construction	C.1 Well Drilling	212.4750418	21.31764229
	2000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2035	002000	Construction	C.1 Well Drilling	277.4802459	27.96973116
	3000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2035	003000	Construction	C.1 Well Drilling	342.48545	34.62182004
	4000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2035	004000	Construction	C.1 Well Drilling	407.4906541	41.27390891
	5000	No Reduct	No Reduct	No Reduct	No Reduct	No Reduct	No Reduction	2035	005000	Construction	C.1 Well Drilling	537.5010624	54.57808666
	6000	0.94%	0.71%	No Reduct	No Reduct	1.19%	1.19%	2035	006000	Construction	C.1 Well Drilling	2729.04346	138.1128451
	7000	0.58%	0.44%	No Reduct	No Reduct	0.74%	0.74%	2035	007000	Construction	C.1 Well Drilling	3271.360267	165.4631389
2035	8000	0.27%	0.20%	No Reduct	No Reduct	0.34%	0.34%	2035	008000	Construction	C.1 Well Drilling	4084.835476	206.4885798
	9000	0.39%	0.30%	No Reduct	No Reduct	0.50%	0.50%	2035	009000	Construction	C.1 Well Drilling	4898.310685	247.5140206
	10000	0.34%	0.26%	No Reduct	No Reduct	0.44%	0.44%	2035	010000	Construction	C.1 Well Drilling	6254.102701	315.8897553
	11000	0.34%	0.27%	No Reduct	No Reduct	0.45%	0.45%	2035	011000	Construction	C.1 Well Drilling	9489.407347	471.9030126
	12000	0.45%	0.35%	No Reduct	No Reduct	0.60%	0.60%	2035	012000	Construction	C.1 Well Drilling	11857.39433	589.5384218
	13000	0.40%	0.31%	No Reduct	No Reduct	0.53%	0.53%	2035	013000	Construction	C.1 Well Drilling	14563.66516	723.9788895
	14000	0.11%	0.08%	No Reduct	No Reduct	0.14%	0.14%	2035	014000	Construction	C.1 Well Drilling	17946.5037	892.0294741
	15000	0.02%	0.02%	No Reduct	No Reduct	0.03%	0.03%	2035	015000	Construction	C.1 Well Drilling	22005.90995	1093.690176

16846.89225	19.81478506	251.5875537	231.4605494	2033	012000	Construction	C.1 Well Drilling	53.83636659	2.076750015	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2033	013000	Construction	C.1 Well Drilling	58.27923415	2.24845734	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2033	014000	Construction	C.1 Well Drilling	19.41734937	0.749225071	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2033	015000	Construction	C.1 Well Drilling	4.763359504	0.183813197	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2034	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2034	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2034	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2034	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2034	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2034	006000	Construction	C.1 Well Drilling	25.65993872	0.985695819	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2034	007000	Construction	C.1 Well Drilling	18.96256169	0.728787363	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2034	008000	Construction	C.1 Well Drilling	11.01302815	0.423475801	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2034	009000	Construction	C.1 Well Drilling	19.32450374	0.743320983	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2034	010000	Construction	C.1 Well Drilling	21.45472023	0.825563665	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2034	011000	Construction	C.1 Well Drilling	32.75762097	1.263389459	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2034	012000	Construction	C.1 Well Drilling	53.75713721	2.073693724	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2034	013000	Construction	C.1 Well Drilling	58.19346633	2.245148352	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2034	014000	Construction	C.1 Well Drilling	19.38877344	0.748122459	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2034	015000	Construction	C.1 Well Drilling	4.756349409	0.183542684	No Reduction	No Reduction
650.4930445	0.766405804	7.147531861	6.575729312	2035	001000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
855.7315035	1.008083983	9.325831746	8.579765206	2035	002000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1060.969963	1.249762162	11.50413163	10.5838011	2035	003000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1266.208422	1.491440341	13.68243151	12.58783699	2035	004000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
1676.68534	1.974796699	18.03903128	16.59590878	2035	005000	Construction	C.1 Well Drilling	No Reduction	No Reduction	No Reduction	No Reduction
3961.954751	4.661204512	58.61540453	53.92617217	2035	006000	Construction	C.1 Well Drilling	25.62223124	0.984247332	No Reduction	No Reduction
4747.390168	5.585171161	70.21595899	64.59868227	2035	007000	Construction	C.1 Well Drilling	18.93469606	0.727716405	No Reduction	No Reduction
5925.543293	6.971121135	87.61679069	80.60744744	2035	008000	Construction	C.1 Well Drilling	10.99684442	0.4228535	No Reduction	No Reduction
7103.696418	8.357071108	105.0176224	96.6162126	2035	009000	Construction	C.1 Well Drilling	19.29610624	0.742228667	No Reduction	No Reduction
9067.284959	10.66698773	134.0190085	123.2974879	2035	010000	Construction	C.1 Well Drilling	21.42319236	0.824350493	No Reduction	No Reduction
13484.46933	15.8601023	201.3925694	185.2811638	2035	011000	Construction	C.1 Well Drilling	32.70948339	1.261532899	No Reduction	No Reduction
16846.89225	19.81478506	251.5875537	231.4605494	2035	012000	Construction	C.1 Well Drilling	53.67814068	2.070646415	No Reduction	No Reduction
20689.6613	24.3344225	308.95325	284.23699	2035	013000	Construction	C.1 Well Drilling	58.10795058	2.241849089	No Reduction	No Reduction
25493.12261	29.9839693	380.6603704	350.2075408	2035	014000	Construction	C.1 Well Drilling	19.36028149	0.747023087	No Reduction	No Reduction
31257.27618	36.76342545	466.7089149	429.3722017	2035	015000	Construction	C.1 Well Drilling	4.749359917	0.183272967	No Reduction	No Reduction

1.504950032	1.384554033	42	2033	1.1305637	0.04361175	No Reduction	No Reduction	0.03160395	0.02907563
1.62971223	1.499335248	37	2033	1.07816583	0.04159646	No Reduction	No Reduction	0.03014968	0.0277377
0.543139871	0.499688682	10	2033	0.09708675	0.00374613	No Reduction	No Reduction	0.0027157	0.00249844
0.133270549	0.122608906	2	2033	0.00476336	0.00018381	No Reduction	No Reduction	0.00013327	0.00012261
No Reduction	No Reduction	333	2034	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1620	2034	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1161	2034	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	224	2034	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	372	2034	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
0.699484064	0.643525343	91	2034	1.16752721	0.04484916	No Reduction	No Reduction	0.03182652	0.0292804
0.517529825	0.476127443	56	2034	0.53095173	0.02040605	No Reduction	No Reduction	0.01449084	0.01333157
0.300929593	0.276855225	26	2034	0.14316937	0.00550519	No Reduction	No Reduction	0.00391208	0.00359912
0.528463538	0.486186458	38	2034	0.36716557	0.0141231	No Reduction	No Reduction	0.01004081	0.00923754
0.587232681	0.540254062	33	2034	0.35400288	0.0136218	No Reduction	No Reduction	0.00968934	0.00891419
0.915285455	0.842062617	32	2034	0.52412194	0.02021423	No Reduction	No Reduction	0.01464457	0.013473
1.502735242	1.382516426	42	2034	1.12889988	0.04354757	No Reduction	No Reduction	0.03155744	0.02903284
1.627313831	1.497128721	37	2034	1.07657913	0.04153524	No Reduction	No Reduction	0.03010531	0.02769688
0.542340548	0.498953305	10	2034	0.09694387	0.00374061	No Reduction	No Reduction	0.0027117	0.00249477
0.133074419	0.122428466	2	2034	0.00475635	0.00018354	No Reduction	No Reduction	0.00013307	0.00012243
No Reduction	No Reduction	333	2035	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1623	2035	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	1163	2035	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	224	2035	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
No Reduction	No Reduction	373	2035	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction	No Reduction
0.698456167	0.642579677	91	2035	1.16581152	0.04478325	No Reduction	No Reduction	0.03177976	0.02923738
0.516769311	0.47542777	56	2035	0.53017149	0.02037606	No Reduction	No Reduction	0.01446954	0.01331198
0.300487374	0.276448384	26	2035	0.14295898	0.0054971	No Reduction	No Reduction	0.00390634	0.00359383
0.527686956	0.485472004	38	2035	0.36662602	0.01410234	No Reduction	No Reduction	0.01002605	0.00922397
0.586369738	0.539460155	33	2035	0.35348267	0.01360178	No Reduction	No Reduction	0.0096751	0.00890109
0.913940436	0.840825199	32	2035	0.52335173	0.02018453	No Reduction	No Reduction	0.01462305	0.0134532
1.500526961	1.380484807	42	2035	1.12724095	0.04348357	No Reduction	No Reduction	0.03151107	0.02899018
1.62492248	1.494928678	37	2035	1.07499709	0.04147421	No Reduction	No Reduction	0.03006107	0.02765618
0.541543575	0.498220089	10	2035	0.09680141	0.00373512	No Reduction	No Reduction	0.00270772	0.0024911
0.132878865	0.122248556	2	2035	0.00474936	0.00018327	No Reduction	No Reduction	0.00013288	0.00012225

1.205779399	42	0.028709033	200.2167984	2033
1.149911969	37	0.031078702	216.7428668	2033
0.103548572	10	0.010354857	72.21477382	2033
0.005080443	2	0.002540222	17.71550561	2033
No Reduction	333	No Reduction	No Reduction	2034
No Reduction	1620	No Reduction	No Reduction	2034
No Reduction	1161	No Reduction	No Reduction	2034
No Reduction	224	No Reduction	No Reduction	2034
No Reduction	372	No Reduction	No Reduction	2034
1.244202896	91	0.013672559	95.35242856	2034
0.565848609	56	0.010104439	70.46836066	2034
0.152586636	26	0.005868717	40.92843076	2034
0.391329477	38	0.010298144	71.81925718	2034
0.377314024	33	0.011433758	79.73903031	2034
0.558980734	32	0.017468148	121.8228637	2034
1.20400489	42	0.028666783	199.9221452	2034
1.148219677	37	0.031032964	216.4238927	2034
0.103396182	10	0.010339618	72.10849748	2034
0.005072967	2	0.002536483	17.68943423	2034
No Reduction	333	No Reduction	No Reduction	2035
No Reduction	1623	No Reduction	No Reduction	2035
No Reduction	1163	No Reduction	No Reduction	2035
No Reduction	224	No Reduction	No Reduction	2035
No Reduction	373	No Reduction	No Reduction	2035
1.242374531	91	0.013652467	95.21230743	2035
0.56501709	56	0.010089591	70.36480686	2035
0.152362409	26	0.005860093	40.86828611	2035
0.390754415	38	0.010283011	71.71371823	2035
0.376759558	33	0.011416956	79.62185319	2035
0.558159308	32	0.017442478	121.6438441	2035
1.202235595	42	0.028624657	199.6283581	2035
1.14653236	37	0.030987361	216.1058561	2035
0.103244241	10	0.010324424	72.00253349	2035
0.005065512	2	0.002532756	17.66343947	2035

Amount of Construction - Well Drilling Emissions Reduced in Changing 75 hp Engines to Tier 4i

Year	NOX	ROG	CO	SOX	PM10	PM25	VERA Fee Reduction Per Well
2015	0.00	0.00	0.00	0.00	0.79	0.73	$7.19
2016	0.00	0.00	0.00	0.00	0.75	0.69	$6.80
2017	0.00	0.00	0.00	0.00	0.70	0.64	$6.43
2018	0.00	0.00	0.00	0.00	0.58	0.53	$5.53
2019	0.00	0.00	0.00	0.00	0.52	0.48	$4.73
2020	0.00	0.00	0.00	0.00	0.44	0.41	$4.15
2021	0.00	0.00	0.00	0.00	0.41	0.38	$3.91
2022	0.00	0.00	0.00	0.00	0.31	0.28	$3.20
2023	0.00	0.00	0.00	0.00	0.27	0.25	$2.93
2024	0.00	0.00	0.00	0.00	0.24	0.22	$2.72
2025	0.00	0.00	0.00	0.00	0.22	0.20	$2.54
2026	0.00	0.00	0.00	0.00	0.20	0.18	$1.96
2027	0.00	0.00	0.00	0.00	0.18	0.17	$1.84
2028	0.00	0.00	0.00	0.00	0.17	0.16	$1.74
2029	0.00	0.00	0.00	0.00	0.16	0.15	$1.69
2030	0.00	0.00	0.00	0.00	0.16	0.15	$1.69
2031	0.00	0.00	0.00	0.00	0.16	0.15	$1.69
2032	0.00	0.00	0.00	0.00	0.16	0.15	$1.69
2033	0.00	0.00	0.00	0.00	0.16	0.15	$1.70
2034	0.00	0.00	0.00	0.00	0.17	0.15	$1.70
2035	0.00	0.00	0.00	0.00	0.17	0.15	$1.70
						Average:	$3.22

≤ 75 hp	
Tier 4i	**Tier 4f**
$3.22	$5.26
75 < hp ≤ 120	
Tier 4i	**Tier 4f**
$325.78	$472.72
120 < hp < 175	
Tier 4i	**Tier 4f**
$222.47	$312.50
175 ≤ hp ≤ 250	
Tier 4i	**Tier 4f**
$26.69	$31.45
250 < hp < 750	
Tier 4i	**Tier 4f**
$1,087.84	$1,447.90
hp ≥ 750	
Tier 4i	**Tier 4f**
$1,231.89	$1,289.82

Amount of Construction - Well Drilling Emissions Reduced in Changing 75 hp Engines to Tier 4f

Year	NOX	ROG	CO	SOX	PM10	PM25	VERA Fee Reduction Per Well
2015	0.00	0.00	0.00	0.00	1.30	1.19	$11.74
2016	0.00	0.00	0.00	0.00	1.22	1.12	$11.12
2017	0.00	0.00	0.00	0.00	1.14	1.05	$10.51
2018	0.00	0.00	0.00	0.00	0.94	0.87	$9.04
2019	0.00	0.00	0.00	0.00	0.85	0.78	$7.74
2020	0.00	0.00	0.00	0.00	0.72	0.66	$6.79
2021	0.00	0.00	0.00	0.00	0.67	0.62	$6.38
2022	0.00	0.00	0.00	0.00	0.51	0.47	$5.23
2023	0.00	0.00	0.00	0.00	0.45	0.41	$4.79
2024	0.00	0.00	0.00	0.00	0.40	0.37	$4.44
2025	0.00	0.00	0.00	0.00	0.36	0.33	$4.15
2026	0.00	0.00	0.00	0.00	0.33	0.30	$3.20
2027	0.00	0.00	0.00	0.00	0.30	0.28	$3.01
2028	0.00	0.00	0.00	0.00	0.28	0.26	$2.84
2029	0.00	0.00	0.00	0.00	0.27	0.25	$2.77
2030	0.00	0.00	0.00	0.00	0.27	0.25	$2.77
2031	0.00	0.00	0.00	0.00	0.27	0.25	$2.77
2032	0.00	0.00	0.00	0.00	0.27	0.25	$2.77
2033	0.00	0.00	0.00	0.00	0.27	0.25	$2.77
2034	0.00	0.00	0.00	0.00	0.27	0.25	$2.77
2035	0.00	0.00	0.00	0.00	0.27	0.25	$2.77
						Average:	$5.26

Amount of Construction - Well Drilling Emissions Reduced in Changing 75<hp<120 Engines to Tier 4i

Year	NOX	ROG	CO	SOX	PM10	PM25	VERA Fee Reduction Per Well
2015	55.63	5.37	0.00	0.00	7.55	6.94	$620.14
2016	53.02	5.13	0.00	0.00	7.08	6.52	$594.81
2017	50.11	4.87	0.00	0.00	6.61	6.08	$568.27
2018	43.20	4.22	0.00	0.00	5.48	5.04	$504.99
2019	39.85	3.94	0.00	0.00	4.95	4.56	$450.27
2020	33.21	3.54	0.00	0.00	4.19	3.85	$396.33
2021	31.95	3.45	0.00	0.00	3.89	3.58	$383.56
2022	24.19	2.89	0.00	0.00	2.94	2.71	$320.57
2023	22.29	2.78	0.00	0.00	2.60	2.40	$303.62
2024	19.88	2.66	0.00	0.00	2.31	2.13	$285.20
2025	18.54	2.58	0.00	0.00	2.08	1.91	$273.77
2026	17.67	2.55	0.00	0.00	1.90	1.75	$230.07
2027	16.91	2.52	0.00	0.00	1.75	1.61	$223.55
2028	15.75	2.49	0.00	0.00	1.61	1.49	$214.51
2029	15.22	2.43	0.00	0.00	1.56	1.43	$210.17
2030	15.25	2.43	0.00	0.00	1.56	1.44	$210.07
2031	15.28	2.44	0.00	0.00	1.56	1.44	$210.23
2032	15.29	2.44	0.00	0.00	1.56	1.44	$210.10
2033	15.30	2.44	0.00	0.00	1.56	1.44	$210.52
2034	15.32	2.44	0.00	0.00	1.57	1.44	$210.39
2035	15.35	2.45	0.00	0.00	1.57	1.45	$210.28
						Average:	$325.78

Amount of Construction - Well Drilling Emissions Reduced in Changing 75<hp<120 Engines to Tier 4f

Year	NOX	ROG	CO	SOX	PM10	PM25	VERA Fee Reduction Per Well
2015	86.35	5.37	0.00	0.00	7.55	6.94	$898.11
2016	82.30	5.13	0.00	0.00	7.08	6.52	$861.82
2017	77.79	4.87	0.00	0.00	6.61	6.08	$823.66
2018	67.05	4.22	0.00	0.00	5.48	5.04	$732.81
2019	61.86	3.94	0.00	0.00	4.95	4.56	$654.76
2020	51.56	3.54	0.00	0.00	4.19	3.85	$575.64
2021	49.60	3.45	0.00	0.00	3.89	3.58	$557.51
2022	37.55	2.89	0.00	0.00	2.94	2.71	$465.49
2023	34.60	2.78	0.00	0.00	2.60	2.40	$441.02
2024	30.86	2.66	0.00	0.00	2.31	2.13	$413.90
2025	28.78	2.58	0.00	0.00	2.08	1.91	$397.38
2026	27.42	2.55	0.00	0.00	1.90	1.75	$334.07
2027	26.25	2.52	0.00	0.00	1.75	1.61	$324.61
2028	24.45	2.49	0.00	0.00	1.61	1.49	$311.20
2029	23.63	2.43	0.00	0.00	1.56	1.43	$304.89
2030	23.67	2.43	0.00	0.00	1.56	1.44	$304.74
2031	23.71	2.44	0.00	0.00	1.56	1.44	$304.97
2032	23.73	2.44	0.00	0.00	1.56	1.44	$304.78
2033	23.74	2.44	0.00	0.00	1.56	1.44	$305.40
2034	23.79	2.44	0.00	0.00	1.57	1.44	$305.20

2035	23.83	2.45	0.00	0.00	1.57	1.45	$305.05
						Average:	$472.72

Amount of Construction - Well Drilling Emissions Reduced in Changing 121<hp<175 hp Engines to Tier 4i

Year	NOX	ROG	CO	SOX	PM10	PM25	VERA Fee Reduction Per Well
2015	35.67	2.78	0.00	0.00	3.17	2.92	$412.13
2016	34.00	2.66	0.00	0.00	2.98	2.74	$396.28
2017	32.15	2.52	0.00	0.00	2.78	2.56	$379.83
2018	27.73	2.19	0.00	0.00	2.30	2.12	$340.34
2019	25.57	2.04	0.00	0.00	2.08	1.91	$302.19
2020	21.33	1.84	0.00	0.00	1.76	1.62	$268.44
2021	20.52	1.79	0.00	0.00	1.64	1.51	$260.53
2022	15.56	1.50	0.00	0.00	1.24	1.14	$221.41
2023	14.35	1.44	0.00	0.00	1.10	1.01	$210.87
2024	12.81	1.38	0.00	0.00	0.97	0.90	$199.49
2025	11.96	1.34	0.00	0.00	0.88	0.81	$192.45
2026	11.36	1.32	0.00	0.00	0.80	0.74	$158.73
2027	10.88	1.31	0.00	0.00	0.74	0.68	$154.70
2028	10.14	1.29	0.00	0.00	0.68	0.63	$149.08
2029	9.81	1.26	0.00	0.00	0.66	0.60	$146.41
2030	9.82	1.26	0.00	0.00	0.66	0.60	$146.32
2031	9.84	1.26	0.00	0.00	0.66	0.61	$146.46
2032	9.85	1.26	0.00	0.00	0.66	0.61	$146.36
2033	9.85	1.27	0.00	0.00	0.66	0.61	$146.72
2034	9.87	1.27	0.00	0.00	0.66	0.61	$146.60
2035	9.89	1.27	0.00	0.00	0.66	0.61	$146.51
						Average:	$222.47

Amount of Construction - Well Drilling Emissions Reduced in Changing 121<hp<175 Engines to Tier 4f

Year	NOX	ROG	CO	SOX	PM10	PM25	VERA Fee Reduction Per Well
2015	52.45	2.78	0.00	0.00	3.17	2.92	$578.19
2016	49.99	2.66	0.00	0.00	2.98	2.74	$556.11
2017	47.26	2.52	0.00	0.00	2.78	2.56	$533.15
2018	40.76	2.19	0.00	0.00	2.30	2.12	$478.09
2019	37.59	2.04	0.00	0.00	2.08	1.91	$425.20
2020	31.36	1.84	0.00	0.00	1.76	1.62	$377.43
2021	30.17	1.79	0.00	0.00	1.64	1.51	$366.46
2022	22.88	1.50	0.00	0.00	1.24	1.14	$311.24
2023	21.09	1.44	0.00	0.00	1.10	1.01	$296.46
2024	18.84	1.38	0.00	0.00	0.97	0.90	$280.28
2025	17.58	1.34	0.00	0.00	0.88	0.81	$270.41
2026	16.71	1.32	0.00	0.00	0.80	0.74	$223.06
2027	16.00	1.31	0.00	0.00	0.74	0.68	$217.37
2028	14.91	1.29	0.00	0.00	0.68	0.63	$209.34
2029	14.41	1.26	0.00	0.00	0.66	0.60	$205.57
2030	14.44	1.26	0.00	0.00	0.66	0.60	$205.45
2031	14.46	1.26	0.00	0.00	0.66	0.61	$205.65
2032	14.47	1.26	0.00	0.00	0.66	0.61	$205.50

2033	14.48	1.27	0.00	0.00	0.66	0.61	$206.01
2034	14.51	1.27	0.00	0.00	0.66	0.61	$205.85
2035	14.54	1.27	0.00	0.00	0.66	0.61	$205.72
						Average:	$312.50

Amount of Construction - Well Drilling Emissions Reduced in Changing 175<hp<250 Engines to Tier 4i

Year	NOX	ROG	CO	SOX	PM10	PM25	VERA Fee Reduction Per Well
2015	7.31	0.36	0.00	0.00	0.40	0.37	$55.13
2016	6.97	0.35	0.00	0.00	0.38	0.35	$52.56
2017	6.58	0.33	0.00	0.00	0.35	0.33	$49.75
2018	5.67	0.29	0.00	0.00	0.29	0.27	$43.21
2019	5.23	0.27	0.00	0.00	0.26	0.24	$39.45
2020	4.35	0.24	0.00	0.00	0.22	0.21	$33.46
2021	4.19	0.23	0.00	0.00	0.21	0.19	$32.19
2022	3.16	0.20	0.00	0.00	0.16	0.14	$25.16
2023	2.90	0.19	0.00	0.00	0.14	0.13	$23.39
2024	2.58	0.18	0.00	0.00	0.12	0.11	$21.26
2025	2.41	0.17	0.00	0.00	0.11	0.10	$20.02
2026	2.31	0.17	0.00	0.00	0.10	0.09	$18.30
2027	2.20	0.17	0.00	0.00	0.09	0.09	$17.60
2028	2.05	0.17	0.00	0.00	0.09	0.08	$16.56
2029	1.98	0.16	0.00	0.00	0.08	0.08	$16.07
2030	1.98	0.16	0.00	0.00	0.08	0.08	$16.07
2031	1.99	0.16	0.00	0.00	0.08	0.08	$16.07
2032	1.99	0.16	0.00	0.00	0.08	0.08	$16.07
2033	1.99	0.16	0.00	0.00	0.08	0.08	$16.07
2034	1.99	0.17	0.00	0.00	0.08	0.08	$16.07
2035	2.00	0.17	0.00	0.00	0.08	0.08	$16.07
						Average:	$26.69

Amount of Construction - Well Drilling Emissions Reduced in Changing 175<hp<250 Engines to Tier 4f

Year	NOX	ROG	CO	SOX	PM10	PM25	VERA Fee Reduction Per Well
2015	8.76	0.36	0.00	0.00	0.40	0.37	$64.99
2016	8.35	0.35	0.00	0.00	0.38	0.35	$61.97
2017	7.89	0.33	0.00	0.00	0.35	0.33	$58.66
2018	6.79	0.29	0.00	0.00	0.29	0.27	$50.97
2019	6.27	0.27	0.00	0.00	0.26	0.24	$46.53
2020	5.21	0.24	0.00	0.00	0.22	0.21	$39.45
2021	5.01	0.23	0.00	0.00	0.21	0.19	$37.96
2022	3.78	0.20	0.00	0.00	0.16	0.14	$29.65
2023	3.48	0.19	0.00	0.00	0.14	0.13	$27.56
2024	3.09	0.18	0.00	0.00	0.12	0.11	$25.04
2025	2.88	0.17	0.00	0.00	0.11	0.10	$23.58
2026	2.76	0.17	0.00	0.00	0.10	0.09	$21.55
2027	2.64	0.17	0.00	0.00	0.09	0.09	$20.73
2028	2.46	0.17	0.00	0.00	0.09	0.08	$19.49
2029	2.37	0.16	0.00	0.00	0.08	0.08	$18.91
2030	2.38	0.16	0.00	0.00	0.08	0.08	$18.91

2031	2.38	0.16	0.00	0.00	0.08	0.08	$18.91
2032	2.38	0.16	0.00	0.00	0.08	0.08	$18.91
2033	2.38	0.16	0.00	0.00	0.08	0.08	$18.92
2034	2.39	0.17	0.00	0.00	0.08	0.08	$18.91
2035	2.39	0.17	0.00	0.00	0.08	0.08	$18.91
						Average:	$31.45

Amount of Construction - Well Drilling Emissions Reduced in Changing 250<hp<750 Engines to Tier 4i

Year	NOX	ROG	CO	SOX	PM10	PM25	VERA Fee Reduction Per Well
2015	296.35	9.20	0.00	0.00	12.83	11.81	$2,273.32
2016	282.32	8.79	0.00	0.00	12.04	11.08	$2,166.22
2017	266.67	8.34	0.00	0.00	11.23	10.33	$2,048.56
2018	229.49	7.23	0.00	0.00	9.30	8.55	$1,775.18
2019	211.98	6.77	0.00	0.00	8.42	7.75	$1,624.14
2020	176.24	6.07	0.00	0.00	7.11	6.54	$1,370.28
2021	169.48	5.90	0.00	0.00	6.60	6.07	$1,317.92
2022	127.64	4.95	0.00	0.00	4.97	4.57	$1,020.40
2023	117.40	4.75	0.00	0.00	4.39	4.04	$945.62
2024	104.41	4.55	0.00	0.00	3.89	3.57	$855.14
2025	97.19	4.40	0.00	0.00	3.49	3.21	$802.79
2026	93.25	4.37	0.00	0.00	3.22	2.96	$740.98
2027	89.19	4.32	0.00	0.00	2.96	2.73	$711.54
2028	82.92	4.26	0.00	0.00	2.73	2.51	$666.98
2029	80.10	4.15	0.00	0.00	2.63	2.42	$646.41
2030	80.23	4.16	0.00	0.00	2.63	2.42	$646.45
2031	80.38	4.17	0.00	0.00	2.64	2.43	$646.50
2032	80.44	4.17	0.00	0.00	2.64	2.43	$646.38
2033	80.47	4.17	0.00	0.00	2.64	2.43	$646.69
2034	80.62	4.18	0.00	0.00	2.65	2.44	$646.53
2035	80.79	4.19	0.00	0.00	2.65	2.44	$646.54
						Average:	$1,087.84

Amount of Construction - Well Drilling Emissions Reduced in Changing 250<hp<750 Engines to Tier 4f

Year	NOX	ROG	CO	SOX	PM10	PM25	VERA Fee Reduction Per Well
2015	401.97	9.20	0.00	0.00	12.83	11.81	$3,026.95
2016	382.94	8.79	0.00	0.00	12.04	11.08	$2,884.72
2017	361.71	8.34	0.00	0.00	11.23	10.33	$2,728.28
2018	311.28	7.23	0.00	0.00	9.30	8.55	$2,364.92
2019	287.53	6.77	0.00	0.00	8.42	7.75	$2,164.24
2020	239.05	6.07	0.00	0.00	7.11	6.54	$1,824.76
2021	229.89	5.90	0.00	0.00	6.60	6.07	$1,755.43
2022	173.13	4.95	0.00	0.00	4.97	4.57	$1,358.10
2023	159.24	4.75	0.00	0.00	4.39	4.04	$1,258.56
2024	141.62	4.55	0.00	0.00	3.89	3.57	$1,137.51
2025	131.82	4.40	0.00	0.00	3.49	3.21	$1,067.81
2026	126.49	4.37	0.00	0.00	3.22	2.96	$985.63
2027	120.97	4.32	0.00	0.00	2.96	2.73	$946.41
2028	112.47	4.26	0.00	0.00	2.73	2.51	$886.70

2029	108.65	4.15	0.00	0.00	2.63	2.42	$859.29
2030	108.82	4.16	0.00	0.00	2.63	2.42	$859.34
2031	109.02	4.17	0.00	0.00	2.64	2.43	$859.40
2032	109.11	4.17	0.00	0.00	2.64	2.43	$859.24
2033	109.15	4.17	0.00	0.00	2.64	2.43	$859.66
2034	109.35	4.18	0.00	0.00	2.65	2.44	$859.45
2035	109.58	4.19	0.00	0.00	2.65	2.44	$859.46
						Average:	$1,447.90

Amount of Construction - Well Drilling Emissions Reduced in Changing >-750 hp Engines to Tier 4i

Year	NOX	ROG	CO	SOX	PM10	PM25	VERA Fee Reduction Per Well
2015	9.82	0.00	0.00	0.00	0.31	0.28	$1,773.97
2016	9.67	0.00	0.00	0.00	0.30	0.28	$1,746.40
2017	9.57	0.00	0.00	0.00	0.29	0.27	$1,729.29
2018	9.26	0.00	0.00	0.00	0.28	0.25	$1,672.32
2019	7.84	0.00	0.00	0.00	0.21	0.19	$1,411.92
2020	7.71	0.00	0.00	0.00	0.20	0.18	$1,387.50
2021	7.62	0.00	0.00	0.00	0.19	0.18	$1,372.06
2022	7.51	0.00	0.00	0.00	0.19	0.17	$1,352.20
2023	7.44	0.00	0.00	0.00	0.18	0.17	$1,338.19
2024	7.49	0.00	0.00	0.00	0.18	0.17	$1,337.09
2025	7.48	0.00	0.00	0.00	0.18	0.16	$1,331.84
2026	5.37	0.00	0.00	0.00	0.11	0.10	$947.67
2027	5.35	0.00	0.00	0.00	0.10	0.10	$942.70
2028	5.34	0.00	0.00	0.00	0.10	0.09	$940.81
2029	5.34	0.00	0.00	0.00	0.10	0.09	$939.69
2030	5.33	0.00	0.00	0.00	0.10	0.09	$938.30
2031	5.35	0.00	0.00	0.00	0.10	0.09	$940.57
2032	5.34	0.00	0.00	0.00	0.10	0.09	$939.18
2033	5.40	0.00	0.00	0.00	0.10	0.09	$944.09
2034	5.39	0.00	0.00	0.00	0.10	0.09	$942.70
2035	5.39	0.00	0.00	0.00	0.10	0.09	$941.31
						Average:	$1,231.89

Amount of Construction - Well Drilling Emissions Reduced in Changing >-750 hp Engines to Tier 4f

Year	NOX	ROG	CO	SOX	PM10	PM25	VERA Fee Reduction Per Well
2015	9.82	0.39	0.00	0.00	0.45	0.41	$1,866.10
2016	9.67	0.38	0.00	0.00	0.44	0.40	$1,836.56
2017	9.57	0.37	0.00	0.00	0.43	0.39	$1,818.11
2018	9.26	0.36	0.00	0.00	0.40	0.37	$1,756.75
2019	7.84	0.27	0.00	0.00	0.30	0.28	$1,475.67
2020	7.71	0.26	0.00	0.00	0.29	0.27	$1,449.54
2021	7.62	0.26	0.00	0.00	0.28	0.26	$1,433.53
2022	7.51	0.26	0.00	0.00	0.27	0.25	$1,412.72
2023	7.44	0.26	0.00	0.00	0.26	0.24	$1,398.21
2024	7.49	0.27	0.00	0.00	0.26	0.24	$1,397.52
2025	7.48	0.27	0.00	0.00	0.26	0.24	$1,392.37
2026	5.37	0.20	0.00	0.00	0.15	0.14	$989.95

2027	5.35	0.20	0.00	0.00	0.15	0.14	$985.23
2028	5.34	0.20	0.00	0.00	0.15	0.14	$983.82
2029	5.34	0.21	0.00	0.00	0.15	0.14	$983.13
2030	5.33	0.21	0.00	0.00	0.15	0.14	$981.67
2031	5.35	0.21	0.00	0.00	0.15	0.14	$984.04
2032	5.34	0.21	0.00	0.00	0.15	0.14	$982.59
2033	5.40	0.21	0.00	0.00	0.15	0.14	$987.73
2034	5.39	0.21	0.00	0.00	0.15	0.14	$986.27
2035	5.39	0.21	0.00	0.00	0.15	0.14	$984.83
						Average:	$1,289.82

APPENDIX F

Menu Option 2 Calculations

Kern County Routine Business Travel (TPY) at AVO 1.35						
Year	NOx	ROG	CO	SO2	PM10	PM2.5
2012	93.13	26.24	258.65	0.49	14.81	5.8
2015	71.51	17.17	175.18	0.51	14.28	5.01
2016	65.12	15.17	158.15	0.53	14.43	4.86
2017	60.33	13.69	144.06	0.55	14.83	4.96
2018	55.42	12.46	132.15	0.57	15.29	5.11
2019	50.84	11.69	123.87	0.58	15.73	5.26
2020	43.95	11.35	119.86	0.6	16.15	5.41
2021	33.72	11.2	117.87	0.61	16.55	5.54
2022	26.64	11.16	116.42	0.63	16.93	5.66
2023	24.06	10.87	114.05	0.64	17.31	5.79
2024	24.38	10.68	112.5	0.65	17.68	5.92
2025	24.81	10.65	112.43	0.67	18.05	6.05
2026	25.24	10.64	112.82	0.68	18.41	6.18
2027	25.64	10.66	113.37	0.69	18.75	6.3
2028	26.01	10.69	114.02	0.7	19.09	6.41
2029	26.36	10.7	114.56	0.72	19.41	6.53
2030	26.71	10.73	115.47	0.73	19.73	6.64
2031	27.07	10.79	116.63	0.74	20.03	6.74
2032	27.42	10.85	117.82	0.75	20.34	6.85
2033	27.78	10.93	119.08	0.76	20.63	6.95
2034	28.15	11.01	120.23	0.77	20.92	7.04
2035	28.51	11.08	121.32	0.78	21.2	7.14

Emissions on y-axis
AVO on x-axis

Kern County Routine Business Travel (TPY) at AVO 1.35						
Year	NOx	ROG	CO	SO2	PM10	PM2.5
2012	93.13	26.24	258.65	0.49	14.81	5.8
2015	71.51	17.17	175.18	0.51	14.28	5.01
2016	65.12	15.17	158.15	0.53	14.43	4.86
2017	60.33	13.69	144.06	0.55	14.83	4.96
2018	55.42	12.46	132.15	0.57	15.29	5.11
2019	50.84	11.69	123.87	0.58	15.73	5.26
2020	43.95	11.35	119.86	0.6	16.15	5.41
2021	33.72	11.2	117.87	0.61	16.55	5.54
2022	26.64	11.16	116.42	0.63	16.93	5.66
2023	24.06	10.87	114.05	0.64	17.31	5.79
2024	24.38	10.68	112.5	0.65	17.68	5.92
2025	24.81	10.65	112.43	0.67	18.05	6.05
2026	25.24	10.64	112.82	0.68	18.41	6.18
2027	25.64	10.66	113.37	0.69	18.75	6.3
2028	26.01	10.69	114.02	0.7	19.09	6.41
2029	26.36	10.7	114.56	0.72	19.41	6.53
2030	26.71	10.73	115.47	0.73	19.73	6.64
2031	27.07	10.79	116.63	0.74	20.03	6.74
2032	27.42	10.85	117.82	0.75	20.34	6.85
2033	27.78	10.93	119.08	0.76	20.63	6.95
2034	28.15	11.01	120.23	0.77	20.92	7.04
2035	28.51	11.08	121.32	0.78	21.2	7.14

Kern County Routine Business Travel (TPY) at AVO 1.50						
Year	NOx	ROG	CO	SO2	PM10	PM2.5
2012	83.82	23.62	232.79	0.44	13.33	5.22
2015	64.36	15.45	157.66	0.46	12.85	4.51
2016	58.61	13.65	142.34	0.48	12.99	4.37
2017	54.30	12.32	129.65	0.50	13.35	4.46
2018	49.88	11.21	118.94	0.51	13.76	4.60
2019	45.76	10.52	111.48	0.52	14.16	4.73
2020	39.56	10.22	107.87	0.54	14.54	4.87
2021	30.35	10.08	106.08	0.55	14.90	4.99
2022	23.98	10.04	104.78	0.57	15.24	5.09
2023	21.65	9.78	102.65	0.58	15.58	5.21
2024	21.94	9.61	101.25	0.59	15.91	5.33
2025	22.33	9.59	101.19	0.60	16.25	5.45
2026	22.72	9.58	101.54	0.61	16.57	5.56
2027	23.08	9.59	102.03	0.62	16.88	5.67
2028	23.41	9.62	102.62	0.63	17.18	5.77
2029	23.72	9.63	103.10	0.65	17.47	5.88
2030	24.04	9.66	103.92	0.66	17.76	5.98
2031	24.36	9.71	104.97	0.67	18.03	6.07
2032	24.68	9.77	106.04	0.68	18.31	6.17
2033	25.00	9.84	107.17	0.68	18.57	6.26
2034	25.34	9.91	108.21	0.69	18.83	6.34
2035	25.66	9.97	109.19	0.70	19.08	6.43

Kern County Routine Business Travel (TPY) at AVO 1.35						
Year	NOx	ROG	CO	SO2	PM10	PM2.5
2012	93.13	26.24	258.65	0.49	14.81	5.8
2015	71.51	17.17	175.18	0.51	14.28	5.01
2016	65.12	15.17	158.15	0.53	14.43	4.86
2017	60.33	13.69	144.06	0.55	14.83	4.96
2018	55.42	12.46	132.15	0.57	15.29	5.11
2019	50.84	11.69	123.87	0.58	15.73	5.26
2020	43.95	11.35	119.86	0.6	16.15	5.41
2021	33.72	11.2	117.87	0.61	16.55	5.54
2022	26.64	11.16	116.42	0.63	16.93	5.66
2023	24.06	10.87	114.05	0.64	17.31	5.79
2024	24.38	10.68	112.5	0.65	17.68	5.92
2025	24.81	10.65	112.43	0.67	18.05	6.05
2026	25.24	10.64	112.82	0.68	18.41	6.18
2027	25.64	10.66	113.37	0.69	18.75	6.3
2028	26.01	10.69	114.02	0.7	19.09	6.41
2029	26.36	10.7	114.56	0.72	19.41	6.53
2030	26.71	10.73	115.47	0.73	19.73	6.64
2031	27.07	10.79	116.63	0.74	20.03	6.74
2032	27.42	10.85	117.82	0.75	20.34	6.85
2033	27.78	10.93	119.08	0.76	20.63	6.95
2034	28.15	11.01	120.23	0.77	20.92	7.04
2035	28.51	11.08	121.32	0.78	21.2	7.14

Kern County Routine Business Travel (TPY) at AVO 1.75						
Year	NOx	ROG	CO	SO2	PM10	PM2.5
2012	71.84	20.24	199.53	0.38	11.42	4.47
2015	55.16	13.25	135.14	0.39	11.02	3.86
2016	50.24	11.70	122.00	0.41	11.13	3.75
2017	46.54	10.56	111.13	0.42	11.44	3.83
2018	42.75	9.61	101.94	0.44	11.80	3.94
2019	39.22	9.02	95.56	0.45	12.13	4.06
2020	33.90	8.76	92.46	0.46	12.46	4.17
2021	26.01	8.64	90.93	0.47	12.77	4.27
2022	20.55	8.61	89.81	0.49	13.06	4.37
2023	18.56	8.39	87.98	0.49	13.35	4.47
2024	18.81	8.24	86.79	0.50	13.64	4.57
2025	19.14	8.22	86.73	0.52	13.92	4.67
2026	19.47	8.21	87.03	0.52	14.20	4.77
2027	19.78	8.22	87.46	0.53	14.46	4.86
2028	20.06	8.25	87.96	0.54	14.73	4.94
2029	20.33	8.25	88.37	0.56	14.97	5.04
2030	20.60	8.28	89.08	0.56	15.22	5.12
2031	20.88	8.32	89.97	0.57	15.45	5.20
2032	21.15	8.37	90.89	0.58	15.69	5.28
2033	21.43	8.43	91.86	0.59	15.91	5.36
2034	21.72	8.49	92.75	0.59	16.14	5.43
2035	21.99	8.55	93.59	0.60	16.35	5.51

Kern County Routine Business Travel (TPY) at AVO 1.35						
Year	NOx	ROG	CO	SO2	PM10	PM2.5
2012	93.13	26.24	258.65	0.49	14.81	5.8
2015	71.51	17.17	175.18	0.51	14.28	5.01
2016	65.12	15.17	158.15	0.53	14.43	4.86
2017	60.33	13.69	144.06	0.55	14.83	4.96
2018	55.42	12.46	132.15	0.57	15.29	5.11
2019	50.84	11.69	123.87	0.58	15.73	5.26
2020	43.95	11.35	119.86	0.6	16.15	5.41
2021	33.72	11.2	117.87	0.61	16.55	5.54
2022	26.64	11.16	116.42	0.63	16.93	5.66
2023	24.06	10.87	114.05	0.64	17.31	5.79
2024	24.38	10.68	112.5	0.65	17.68	5.92
2025	24.81	10.65	112.43	0.67	18.05	6.05
2026	25.24	10.64	112.82	0.68	18.41	6.18
2027	25.64	10.66	113.37	0.69	18.75	6.3
2028	26.01	10.69	114.02	0.7	19.09	6.41
2029	26.36	10.7	114.56	0.72	19.41	6.53
2030	26.71	10.73	115.47	0.73	19.73	6.64
2031	27.07	10.79	116.63	0.74	20.03	6.74
2032	27.42	10.85	117.82	0.75	20.34	6.85
2033	27.78	10.93	119.08	0.76	20.63	6.95
2034	28.15	11.01	120.23	0.77	20.92	7.04
2035	28.51	11.08	121.32	0.78	21.2	7.14

Kern County Routine Business Travel (TPY) at AVO 2.0						
Year	NOx	ROG	CO	SO2	PM10	PM2.5
2012	62.86	17.71	174.59	0.33	10.00	3.92
2015	48.27	11.59	118.25	0.34	9.64	3.38
2016	43.96	10.24	106.75	0.36	9.74	3.28
2017	40.72	9.24	97.24	0.37	10.01	3.35
2018	37.41	8.41	89.20	0.38	10.32	3.45
2019	34.32	7.89	83.61	0.39	10.62	3.55
2020	29.67	7.66	80.91	0.41	10.90	3.65
2021	22.76	7.56	79.56	0.41	11.17	3.74
2022	17.98	7.53	78.58	0.43	11.43	3.82
2023	16.24	7.34	76.98	0.43	11.68	3.91
2024	16.46	7.21	75.94	0.44	11.93	4.00
2025	16.75	7.19	75.89	0.45	12.18	4.08
2026	17.04	7.18	76.15	0.46	12.43	4.17
2027	17.31	7.20	76.52	0.47	12.66	4.25
2028	17.56	7.22	76.96	0.47	12.89	4.33
2029	17.79	7.22	77.33	0.49	13.10	4.41
2030	18.03	7.24	77.94	0.49	13.32	4.48
2031	18.27	7.28	78.73	0.50	13.52	4.55
2032	18.51	7.32	79.53	0.51	13.73	4.62
2033	18.75	7.38	80.38	0.51	13.93	4.69
2034	19.00	7.43	81.16	0.52	14.12	4.75
2035	19.24	7.48	81.89	0.53	14.31	4.82

Kern County Routine Business Travel (TPY) at AVO 1.35						
Year	NOx	ROG	CO	SO2	PM10	PM2.5
2012	93.13	26.24	258.65	0.49	14.81	5.8
2015	71.51	17.17	175.18	0.51	14.28	5.01
2016	65.12	15.17	158.15	0.53	14.43	4.86
2017	60.33	13.69	144.06	0.55	14.83	4.96
2018	55.42	12.46	132.15	0.57	15.29	5.11
2019	50.84	11.69	123.87	0.58	15.73	5.26
2020	43.95	11.35	119.86	0.6	16.15	5.41
2021	33.72	11.2	117.87	0.61	16.55	5.54
2022	26.64	11.16	116.42	0.63	16.93	5.66
2023	24.06	10.87	114.05	0.64	17.31	5.79
2024	24.38	10.68	112.5	0.65	17.68	5.92
2025	24.81	10.65	112.43	0.67	18.05	6.05
2026	25.24	10.64	112.82	0.68	18.41	6.18
2027	25.64	10.66	113.37	0.69	18.75	6.3
2028	26.01	10.69	114.02	0.7	19.09	6.41
2029	26.36	10.7	114.56	0.72	19.41	6.53
2030	26.71	10.73	115.47	0.73	19.73	6.64
2031	27.07	10.79	116.63	0.74	20.03	6.74
2032	27.42	10.85	117.82	0.75	20.34	6.85
2033	27.78	10.93	119.08	0.76	20.63	6.95
2034	28.15	11.01	120.23	0.77	20.92	7.04
2035	28.51	11.08	121.32	0.78	21.2	7.14

Kern County Routine Business Travel (TPY) at AVO 2.25						
Year	NOx	ROG	CO	SO2	PM10	PM2.5
2012	55.88	15.74	155.19	0.29	8.89	3.48
2015	42.91	10.30	105.11	0.31	8.57	3.01
2016	39.07	9.10	94.89	0.32	8.66	2.92
2017	36.20	8.21	86.44	0.33	8.90	2.98
2018	33.25	7.48	79.29	0.34	9.17	3.07
2019	30.50	7.01	74.32	0.35	9.44	3.16
2020	26.37	6.81	71.92	0.36	9.69	3.25
2021	20.23	6.72	70.72	0.37	9.93	3.32
2022	15.98	6.70	69.85	0.38	10.16	3.40
2023	14.44	6.52	68.43	0.38	10.39	3.47
2024	14.63	6.41	67.50	0.39	10.61	3.55
2025	14.89	6.39	67.46	0.40	10.83	3.63
2026	15.14	6.38	67.69	0.41	11.05	3.71
2027	15.38	6.40	68.02	0.41	11.25	3.78
2028	15.61	6.41	68.41	0.42	11.45	3.85
2029	15.82	6.42	68.74	0.43	11.65	3.92
2030	16.03	6.44	69.28	0.44	11.84	3.98
2031	16.24	6.47	69.98	0.44	12.02	4.04
2032	16.45	6.51	70.69	0.45	12.20	4.11
2033	16.67	6.56	71.45	0.46	12.38	4.17
2034	16.89	6.61	72.14	0.46	12.55	4.22
2035	17.11	6.65	72.79	0.47	12.72	4.28

Kern County Routine Business Travel (TPY) at AVO 1.35						
Year	NOx	ROG	CO	SO2	PM10	PM2.5
2012	93.13	26.24	258.65	0.49	14.81	5.8
2015	71.51	17.17	175.18	0.51	14.28	5.01
2016	65.12	15.17	158.15	0.53	14.43	4.86
2017	60.33	13.69	144.06	0.55	14.83	4.96
2018	55.42	12.46	132.15	0.57	15.29	5.11
2019	50.84	11.69	123.87	0.58	15.73	5.26
2020	43.95	11.35	119.86	0.6	16.15	5.41
2021	33.72	11.2	117.87	0.61	16.55	5.54
2022	26.64	11.16	116.42	0.63	16.93	5.66
2023	24.06	10.87	114.05	0.64	17.31	5.79
2024	24.38	10.68	112.5	0.65	17.68	5.92
2025	24.81	10.65	112.43	0.67	18.05	6.05
2026	25.24	10.64	112.82	0.68	18.41	6.18
2027	25.64	10.66	113.37	0.69	18.75	6.3
2028	26.01	10.69	114.02	0.7	19.09	6.41
2029	26.36	10.7	114.56	0.72	19.41	6.53
2030	26.71	10.73	115.47	0.73	19.73	6.64
2031	27.07	10.79	116.63	0.74	20.03	6.74
2032	27.42	10.85	117.82	0.75	20.34	6.85
2033	27.78	10.93	119.08	0.76	20.63	6.95
2034	28.15	11.01	120.23	0.77	20.92	7.04
2035	28.51	11.08	121.32	0.78	21.2	7.14

Kern County Routine Business Travel (TPY) at AVO 2.5						
Year	NOx	ROG	CO	SO2	PM10	PM2.5
2012	50.29	14.17	139.67	0.26	8.00	3.13
2015	38.62	9.27	94.60	0.28	7.71	2.71
2016	35.16	8.19	85.40	0.29	7.79	2.62
2017	32.58	7.39	77.79	0.30	8.01	2.68
2018	29.93	6.73	71.36	0.31	8.26	2.76
2019	27.45	6.31	66.89	0.31	8.49	2.84
2020	23.73	6.13	64.72	0.32	8.72	2.92
2021	18.21	6.05	63.65	0.33	8.94	2.99
2022	14.39	6.03	62.87	0.34	9.14	3.06
2023	12.99	5.87	61.59	0.35	9.35	3.13
2024	13.17	5.77	60.75	0.35	9.55	3.20
2025	13.40	5.75	60.71	0.36	9.75	3.27
2026	13.63	5.75	60.92	0.37	9.94	3.34
2027	13.85	5.76	61.22	0.37	10.13	3.40
2028	14.05	5.77	61.57	0.38	10.31	3.46
2029	14.23	5.78	61.86	0.39	10.48	3.53
2030	14.42	5.79	62.35	0.39	10.65	3.59
2031	14.62	5.83	62.98	0.40	10.82	3.64
2032	14.81	5.86	63.62	0.41	10.98	3.70
2033	15.00	5.90	64.30	0.41	11.14	3.75
2034	15.20	5.95	64.92	0.42	11.30	3.80
2035	15.40	5.98	65.51	0.42	11.45	3.86

Kern County Routine Business Travel (TPY) at AVO 1.35						
Year	NOx	ROG	CO	SO2	PM10	PM2.5
2012	93.13	26.24	258.65	0.49	14.81	5.8
2015	71.51	17.17	175.18	0.51	14.28	5.01
2016	65.12	15.17	158.15	0.53	14.43	4.86
2017	60.33	13.69	144.06	0.55	14.83	4.96
2018	55.42	12.46	132.15	0.57	15.29	5.11
2019	50.84	11.69	123.87	0.58	15.73	5.26
2020	43.95	11.35	119.86	0.6	16.15	5.41
2021	33.72	11.2	117.87	0.61	16.55	5.54
2022	26.64	11.16	116.42	0.63	16.93	5.66
2023	24.06	10.87	114.05	0.64	17.31	5.79
2024	24.38	10.68	112.5	0.65	17.68	5.92
2025	24.81	10.65	112.43	0.67	18.05	6.05
2026	25.24	10.64	112.82	0.68	18.41	6.18
2027	25.64	10.66	113.37	0.69	18.75	6.3
2028	26.01	10.69	114.02	0.7	19.09	6.41
2029	26.36	10.7	114.56	0.72	19.41	6.53
2030	26.71	10.73	115.47	0.73	19.73	6.64
2031	27.07	10.79	116.63	0.74	20.03	6.74
2032	27.42	10.85	117.82	0.75	20.34	6.85
2033	27.78	10.93	119.08	0.76	20.63	6.95
2034	28.15	11.01	120.23	0.77	20.92	7.04
2035	28.51	11.08	121.32	0.78	21.2	7.14

Kern County Routine Business Travel (TPY) at AVO 2.75						
Year	NOx	ROG	CO	SO2	PM10	PM2.5
2012	45.72	12.88	126.97	0.24	7.27	2.85
2015	35.10	8.43	86.00	0.25	7.01	2.46
2016	31.97	7.45	77.64	0.26	7.08	2.39
2017	29.62	6.72	70.72	0.27	7.28	2.43
2018	27.21	6.12	64.87	0.28	7.51	2.51
2019	24.96	5.74	60.81	0.28	7.72	2.58
2020	21.58	5.57	58.84	0.29	7.93	2.66
2021	16.55	5.50	57.86	0.30	8.12	2.72
2022	13.08	5.48	57.15	0.31	8.31	2.78
2023	11.81	5.34	55.99	0.31	8.50	2.84
2024	11.97	5.24	55.23	0.32	8.68	2.91
2025	12.18	5.23	55.19	0.33	8.86	2.97
2026	12.39	5.22	55.38	0.33	9.04	3.03
2027	12.59	5.23	55.65	0.34	9.20	3.09
2028	12.77	5.25	55.97	0.34	9.37	3.15
2029	12.94	5.25	56.24	0.35	9.53	3.21
2030	13.11	5.27	56.69	0.36	9.69	3.26
2031	13.29	5.30	57.25	0.36	9.83	3.31
2032	13.46	5.33	57.84	0.37	9.99	3.36
2033	13.64	5.37	58.46	0.37	10.13	3.41
2034	13.82	5.40	59.02	0.38	10.27	3.46
2035	14.00	5.44	59.56	0.38	10.41	3.51

Kern County Routine Business Travel (TPY) at AVO 1.35						
Year	NOx	ROG	CO	SO2	PM10	PM2.5
2012	93.13	26.24	258.65	0.49	14.81	5.8
2015	71.51	17.17	175.18	0.51	14.28	5.01
2016	65.12	15.17	158.15	0.53	14.43	4.86
2017	60.33	13.69	144.06	0.55	14.83	4.96
2018	55.42	12.46	132.15	0.57	15.29	5.11
2019	50.84	11.69	123.87	0.58	15.73	5.26
2020	43.95	11.35	119.86	0.6	16.15	5.41
2021	33.72	11.2	117.87	0.61	16.55	5.54
2022	26.64	11.16	116.42	0.63	16.93	5.66
2023	24.06	10.87	114.05	0.64	17.31	5.79
2024	24.38	10.68	112.5	0.65	17.68	5.92
2025	24.81	10.65	112.43	0.67	18.05	6.05
2026	25.24	10.64	112.82	0.68	18.41	6.18
2027	25.64	10.66	113.37	0.69	18.75	6.3
2028	26.01	10.69	114.02	0.7	19.09	6.41
2029	26.36	10.7	114.56	0.72	19.41	6.53
2030	26.71	10.73	115.47	0.73	19.73	6.64
2031	27.07	10.79	116.63	0.74	20.03	6.74
2032	27.42	10.85	117.82	0.75	20.34	6.85
2033	27.78	10.93	119.08	0.76	20.63	6.95
2034	28.15	11.01	120.23	0.77	20.92	7.04
2035	28.51	11.08	121.32	0.78	21.2	7.14

Kern County Routine Business Travel (TPY) at AVO 3.00						
Year	NOx	ROG	CO	SO2	PM10	PM2.5
2012	41.91	11.81	116.39	0.22	6.66	2.61
2015	32.18	7.73	78.83	0.23	6.43	2.25
2016	29.30	6.83	71.17	0.24	6.49	2.19
2017	27.15	6.16	64.83	0.25	6.67	2.23
2018	24.94	5.61	59.47	0.26	6.88	2.30
2019	22.88	5.26	55.74	0.26	7.08	2.37
2020	19.78	5.11	53.94	0.27	7.27	2.43
2021	15.17	5.04	53.04	0.27	7.45	2.49
2022	11.99	5.02	52.39	0.28	7.62	2.55
2023	10.83	4.89	51.32	0.29	7.79	2.61
2024	10.97	4.81	50.63	0.29	7.96	2.66
2025	11.16	4.79	50.59	0.30	8.12	2.72
2026	11.36	4.79	50.77	0.31	8.28	2.78
2027	11.54	4.80	51.02	0.31	8.44	2.84
2028	11.70	4.81	51.31	0.32	8.59	2.88
2029	11.86	4.82	51.55	0.32	8.73	2.94
2030	12.02	4.83	51.96	0.33	8.88	2.99
2031	12.18	4.86	52.48	0.33	9.01	3.03
2032	12.34	4.88	53.02	0.34	9.15	3.08
2033	12.50	4.92	53.59	0.34	9.28	3.13
2034	12.67	4.95	54.10	0.35	9.41	3.17
2035	12.83	4.99	54.59	0.35	9.54	3.21

Emissions Reduction at AVO 1.50 (TPY)							
Active wells	Year	NOx	ROG	CO	SO2	PM10	PM2.5
43028	2012	9.31	2.62	25.87	0.05	1.48	0.58
45301	2015	7.15	1.72	17.52	0.05	1.43	0.50
47476	2016	6.51	1.52	15.82	0.05	1.44	0.49
49596	2017	6.03	1.37	14.41	0.06	1.48	0.50
51668	2018	5.54	1.25	13.22	0.06	1.53	0.51
53694	2019	5.08	1.17	12.39	0.06	1.57	0.53
55679	2020	4.40	1.14	11.99	0.06	1.62	0.54
57625	2021	3.37	1.12	11.79	0.06	1.66	0.55
59535	2022	2.66	1.12	11.64	0.06	1.69	0.57
61413	2023	2.41	1.09	11.41	0.06	1.73	0.58
63260	2024	2.44	1.07	11.25	0.06	1.77	0.59
65080	2025	2.48	1.07	11.24	0.07	1.81	0.61
66873	2026	2.52	1.06	11.28	0.07	1.84	0.62
68643	2027	2.56	1.07	11.34	0.07	1.88	0.63
70391	2028	2.60	1.07	11.40	0.07	1.91	0.64
72118	2029	2.64	1.07	11.46	0.07	1.94	0.65
73827	2030	2.67	1.07	11.55	0.07	1.97	0.66
75519	2031	2.71	1.08	11.66	0.07	2.00	0.67
77194	2032	2.74	1.09	11.78	0.08	2.03	0.69
78854	2033	2.78	1.09	11.91	0.08	2.06	0.70
80501	2034	2.82	1.10	12.02	0.08	2.09	0.70
82136	2035	2.85	1.11	12.13	0.08	2.12	0.71

Incremental Emissions Reduction at AVO 1.50 (TPY)						
Year	NOx	ROG	CO	SO2	PM10	PM2.5
2012	9.31	2.62	25.87	0.05	1.48	0.58
2015	0.36	0.09	0.88	0.00	0.07	0.03
2016	0.61	0.14	1.48	0.00	0.14	0.05
2017	0.80	0.18	1.91	0.01	0.20	0.07
2018	0.93	0.21	2.21	0.01	0.26	0.09
2019	1.01	0.23	2.46	0.01	0.31	0.10
2020	1.00	0.26	2.72	0.01	0.37	0.12
2021	0.85	0.28	2.99	0.02	0.42	0.14
2022	0.74	0.31	3.23	0.02	0.47	0.16
2023	0.72	0.33	3.41	0.02	0.52	0.17
2024	0.78	0.34	3.60	0.02	0.57	0.19
2025	0.84	0.36	3.81	0.02	0.61	0.20
2026	0.90	0.38	4.02	0.02	0.66	0.22
2027	0.96	0.40	4.23	0.03	0.70	0.24
2028	1.01	0.42	4.43	0.03	0.74	0.25
2029	1.06	0.43	4.62	0.03	0.78	0.26
2030	1.11	0.45	4.82	0.03	0.82	0.28
2031	1.16	0.46	5.02	0.03	0.86	0.29
2032	1.21	0.48	5.21	0.03	0.90	0.30
2033	1.26	0.50	5.41	0.03	0.94	0.32
2034	1.31	0.51	5.60	0.04	0.97	0.33
2035	1.36	0.53	5.78	0.04	1.01	0.34

Emissions Reduction at AVO 1.75 (TPY)							
Active wells	Year	NOx	ROG	CO	SO2	PM10	PM2.5
43028	2012	21.29	6.00	59.12	0.11	3.39	1.33
45301	2015	16.35	3.92	40.04	0.12	3.26	1.15
47476	2016	14.88	3.47	36.15	0.12	3.30	1.11
49596	2017	13.79	3.13	32.93	0.13	3.39	1.13
51668	2018	12.67	2.85	30.21	0.13	3.49	1.17
53694	2019	11.62	2.67	28.31	0.13	3.60	1.20
55679	2020	10.05	2.59	27.40	0.14	3.69	1.24
57625	2021	7.71	2.56	26.94	0.14	3.78	1.27
59535	2022	6.09	2.55	26.61	0.14	3.87	1.29
61413	2023	5.50	2.48	26.07	0.15	3.96	1.32
63260	2024	5.57	2.44	25.71	0.15	4.04	1.35
65080	2025	5.67	2.43	25.70	0.15	4.13	1.38
66873	2026	5.77	2.43	25.79	0.16	4.21	1.41
68643	2027	5.86	2.44	25.91	0.16	4.29	1.44
70391	2028	5.95	2.44	26.06	0.16	4.36	1.47
72118	2029	6.03	2.45	26.19	0.16	4.44	1.49
73827	2030	6.11	2.45	26.39	0.17	4.51	1.52
75519	2031	6.19	2.47	26.66	0.17	4.58	1.54
77194	2032	6.27	2.48	26.93	0.17	4.65	1.57
78854	2033	6.35	2.50	27.22	0.17	4.72	1.59
80501	2034	6.43	2.52	27.48	0.18	4.78	1.61
82136	2035	6.52	2.53	27.73	0.18	4.85	1.63

Incremental Emissions Reduction at AVO 1.75 (TPY)						
Year	NOx	ROG	CO	SO2	PM10	PM2.5
2012	21.29	6.00	59.12	0.11	3.39	1.33
2015	0.82	0.20	2.01	0.01	0.16	0.06
2016	1.39	0.32	3.39	0.01	0.31	0.10
2017	1.83	0.41	4.36	0.02	0.45	0.15
2018	2.12	0.48	5.05	0.02	0.58	0.20
2019	2.31	0.53	5.62	0.03	0.71	0.24
2020	2.28	0.59	6.22	0.03	0.84	0.28
2021	1.95	0.65	6.82	0.04	0.96	0.32
2022	1.69	0.71	7.38	0.04	1.07	0.36
2023	1.65	0.74	7.80	0.04	1.18	0.40
2024	1.78	0.78	8.22	0.05	1.29	0.43
2025	1.92	0.82	8.71	0.05	1.40	0.47
2026	2.06	0.87	9.20	0.06	1.50	0.50
2027	2.19	0.91	9.67	0.06	1.60	0.54
2028	2.31	0.95	10.13	0.06	1.70	0.57
2029	2.43	0.99	10.56	0.07	1.79	0.60
2030	2.55	1.02	11.01	0.07	1.88	0.63
2031	2.66	1.06	11.47	0.07	1.97	0.66
2032	2.77	1.10	11.92	0.08	2.06	0.69
2033	2.88	1.14	12.37	0.08	2.14	0.72
2034	3.00	1.17	12.79	0.08	2.23	0.75
2035	3.10	1.21	13.20	0.08	2.31	0.78

Emissions Reduction at AVO 2.0 (TPY)							
Active wells	Year	NOx	ROG	CO	SO2	PM10	PM2.5
43028	2012	30.27	8.53	84.06	0.16	4.81	1.89
45301	2015	23.24	5.58	56.93	0.17	4.64	1.63
47476	2016	21.16	4.93	51.40	0.17	4.69	1.58
49596	2017	19.61	4.45	46.82	0.18	4.82	1.61
51668	2018	18.01	4.05	42.95	0.19	4.97	1.66
53694	2019	16.52	3.80	40.26	0.19	5.11	1.71
55679	2020	14.28	3.69	38.95	0.20	5.25	1.76
57625	2021	10.96	3.64	38.31	0.20	5.38	1.80
59535	2022	8.66	3.63	37.84	0.20	5.50	1.84
61413	2023	7.82	3.53	37.07	0.21	5.63	1.88
63260	2024	7.92	3.47	36.56	0.21	5.75	1.92
65080	2025	8.06	3.46	36.54	0.22	5.87	1.97
66873	2026	8.20	3.46	36.67	0.22	5.98	2.01
68643	2027	8.33	3.46	36.85	0.22	6.09	2.05
70391	2028	8.45	3.47	37.06	0.23	6.20	2.08
72118	2029	8.57	3.48	37.23	0.23	6.31	2.12
73827	2030	8.68	3.49	37.53	0.24	6.41	2.16
75519	2031	8.80	3.51	37.90	0.24	6.51	2.19
77194	2032	8.91	3.53	38.29	0.24	6.61	2.23
78854	2033	9.03	3.55	38.70	0.25	6.70	2.26
80501	2034	9.15	3.58	39.07	0.25	6.80	2.29
82136	2035	9.27	3.60	39.43	0.25	6.89	2.32

Incremental Emissions Reduction at AVO 2.0 (TPY)						
Year	NOx	ROG	CO	SO2	PM10	PM2.5
2012	30.27	8.53	84.06	0.16	4.81	1.89
2015	1.17	0.28	2.86	0.01	0.23	0.08
2016	1.98	0.46	4.82	0.02	0.44	0.15
2017	2.60	0.59	6.20	0.02	0.64	0.21
2018	3.01	0.68	7.18	0.03	0.83	0.28
2019	3.28	0.75	8.00	0.04	1.02	0.34
2020	3.25	0.84	8.85	0.04	1.19	0.40
2021	2.78	0.92	9.70	0.05	1.36	0.46
2022	2.40	1.01	10.49	0.06	1.53	0.51
2023	2.34	1.06	11.10	0.06	1.68	0.56
2024	2.53	1.11	11.69	0.07	1.84	0.62
2025	2.73	1.17	12.38	0.07	1.99	0.67
2026	2.92	1.23	13.07	0.08	2.13	0.72
2027	3.11	1.29	13.75	0.08	2.27	0.76
2028	3.29	1.35	14.40	0.09	2.41	0.81
2029	3.46	1.40	15.02	0.09	2.54	0.86
2030	3.62	1.45	15.66	0.10	2.68	0.90
2031	3.79	1.51	16.31	0.10	2.80	0.94
2032	3.94	1.56	16.95	0.11	2.93	0.99
2033	4.10	1.61	17.58	0.11	3.05	1.03
2034	4.26	1.67	18.19	0.12	3.16	1.07
2035	4.41	1.71	18.77	0.12	3.28	1.10

Emissions Reduction at AVO 2.25 (TPY)							
Active wells	Year	NOx	ROG	CO	SO2	PM10	PM2.5
43028	2012	37.25	10.50	103.46	0.20	5.92	2.32
45301	2015	28.60	6.87	70.07	0.20	5.71	2.00
47476	2016	26.05	6.07	63.26	0.21	5.77	1.94
49596	2017	24.13	5.48	57.62	0.22	5.93	1.98
51668	2018	22.17	4.98	52.86	0.23	6.12	2.04
53694	2019	20.34	4.68	49.55	0.23	6.29	2.10
55679	2020	17.58	4.54	47.94	0.24	6.46	2.16
57625	2021	13.49	4.48	47.15	0.24	6.62	2.22
59535	2022	10.66	4.46	46.57	0.25	6.77	2.26
61413	2023	9.62	4.35	45.62	0.26	6.92	2.32
63260	2024	9.75	4.27	45.00	0.26	7.07	2.37
65080	2025	9.92	4.26	44.97	0.27	7.22	2.42
66873	2026	10.10	4.26	45.13	0.27	7.36	2.47
68643	2027	10.26	4.26	45.35	0.28	7.50	2.52
70391	2028	10.40	4.28	45.61	0.28	7.64	2.56
72118	2029	10.54	4.28	45.82	0.29	7.76	2.61
73827	2030	10.68	4.29	46.19	0.29	7.89	2.66
75519	2031	10.83	4.32	46.65	0.30	8.01	2.70
77194	2032	10.97	4.34	47.13	0.30	8.14	2.74
78854	2033	11.11	4.37	47.63	0.30	8.25	2.78
80501	2034	11.26	4.40	48.09	0.31	8.37	2.82
82136	2035	11.40	4.43	48.53	0.31	8.48	2.86

Incremental Emissions Reduction at AVO 2.25 (TPY)						
Year	NOx	ROG	CO	SO2	PM10	PM2.5
2012	37.25	10.50	103.46	0.20	5.92	2.32
2015	1.44	0.34	3.52	0.01	0.29	0.10
2016	2.44	0.57	5.93	0.02	0.54	0.18
2017	3.20	0.73	7.63	0.03	0.79	0.26
2018	3.71	0.83	8.84	0.04	1.02	0.34
2019	4.04	0.93	9.84	0.05	1.25	0.42
2020	3.99	1.03	10.89	0.05	1.47	0.49
2021	3.42	1.13	11.94	0.06	1.68	0.56
2022	2.95	1.24	12.91	0.07	1.88	0.63
2023	2.88	1.30	13.66	0.08	2.07	0.69
2024	3.12	1.37	14.39	0.08	2.26	0.76
2025	3.36	1.44	15.24	0.09	2.45	0.82
2026	3.60	1.52	16.09	0.10	2.63	0.88
2027	3.83	1.59	16.92	0.10	2.80	0.94
2028	4.04	1.66	17.73	0.11	2.97	1.00
2029	4.25	1.73	18.48	0.12	3.13	1.05
2030	4.46	1.79	19.27	0.12	3.29	1.11
2031	4.66	1.86	20.07	0.13	3.45	1.16
2032	4.85	1.92	20.86	0.13	3.60	1.21
2033	5.05	1.99	21.64	0.14	3.75	1.26
2034	5.24	2.05	22.39	0.14	3.90	1.31
2035	5.43	2.11	23.11	0.15	4.04	1.36

Emissions Reduction at AVO 2.5 (TPY)							
Active wells	Year	NOx	ROG	CO	SO2	PM10	PM2.5
43028	2012	42.84	12.07	118.98	0.23	6.81	2.67
45301	2015	32.89	7.90	80.58	0.23	6.57	2.30
47476	2016	29.96	6.98	72.75	0.24	6.64	2.24
49596	2017	27.75	6.30	66.27	0.25	6.82	2.28
51668	2018	25.49	5.73	60.79	0.26	7.03	2.35
53694	2019	23.39	5.38	56.98	0.27	7.24	2.42
55679	2020	20.22	5.22	55.14	0.28	7.43	2.49
57625	2021	15.51	5.15	54.22	0.28	7.61	2.55
59535	2022	12.25	5.13	53.55	0.29	7.79	2.60
61413	2023	11.07	5.00	52.46	0.29	7.96	2.66
63260	2024	11.21	4.91	51.75	0.30	8.13	2.72
65080	2025	11.41	4.90	51.72	0.31	8.30	2.78
66873	2026	11.61	4.89	51.90	0.31	8.47	2.84
68643	2027	11.79	4.90	52.15	0.32	8.63	2.90
70391	2028	11.96	4.92	52.45	0.32	8.78	2.95
72118	2029	12.13	4.92	52.70	0.33	8.93	3.00
73827	2030	12.29	4.94	53.12	0.34	9.08	3.05
75519	2031	12.45	4.96	53.65	0.34	9.21	3.10
77194	2032	12.61	4.99	54.20	0.35	9.36	3.15
78854	2033	12.78	5.03	54.78	0.35	9.49	3.20
80501	2034	12.95	5.06	55.31	0.35	9.62	3.24
82136	2035	13.11	5.10	55.81	0.36	9.75	3.28

Incremental Emissions Reduction at AVO 2.5 (TPY)						
Year	NOx	ROG	CO	SO2	PM10	PM2.5
2012	42.84	12.07	118.98	0.23	6.81	2.67
2015	1.65	0.40	4.04	0.01	0.33	0.12
2016	2.81	0.65	6.82	0.02	0.62	0.21
2017	3.68	0.83	8.78	0.03	0.90	0.30
2018	4.26	0.96	10.16	0.04	1.18	0.39
2019	4.65	1.07	11.32	0.05	1.44	0.48
2020	4.59	1.19	12.53	0.06	1.69	0.57
2021	3.93	1.31	13.73	0.07	1.93	0.65
2022	3.40	1.42	14.85	0.08	2.16	0.72
2023	3.31	1.50	15.71	0.09	2.38	0.80
2024	3.59	1.57	16.55	0.10	2.60	0.87
2025	3.87	1.66	17.52	0.10	2.81	0.94
2026	4.14	1.75	18.51	0.11	3.02	1.01
2027	4.40	1.83	19.46	0.12	3.22	1.08
2028	4.65	1.91	20.39	0.13	3.41	1.15
2029	4.89	1.99	21.26	0.13	3.60	1.21
2030	5.13	2.06	22.16	0.14	3.79	1.27
2031	5.36	2.14	23.08	0.15	3.96	1.33
2032	5.58	2.21	23.99	0.15	4.14	1.39
2033	5.81	2.28	24.89	0.16	4.31	1.45
2034	6.03	2.36	25.74	0.16	4.48	1.51
2035	6.24	2.43	26.57	0.17	4.64	1.56

Emissions Reduction at AVO 2.75 (TPY)							
Active wells	Year	NOx	ROG	CO	SO2	PM10	PM2.5
43028	2012	47.41	13.36	131.68	0.25	7.54	2.95
45301	2015	36.41	8.74	89.18	0.26	7.27	2.55
47476	2016	33.15	7.72	80.51	0.27	7.35	2.47
49596	2017	30.71	6.97	73.34	0.28	7.55	2.53
51668	2018	28.21	6.34	67.28	0.29	7.78	2.60
53694	2019	25.88	5.95	63.06	0.30	8.01	2.68
55679	2020	22.37	5.78	61.02	0.31	8.22	2.75
57625	2021	17.17	5.70	60.01	0.31	8.43	2.82
59535	2022	13.56	5.68	59.27	0.32	8.62	2.88
61413	2023	12.25	5.53	58.06	0.33	8.81	2.95
63260	2024	12.41	5.44	57.27	0.33	9.00	3.01
65080	2025	12.63	5.42	57.24	0.34	9.19	3.08
66873	2026	12.85	5.42	57.44	0.35	9.37	3.15
68643	2027	13.05	5.43	57.72	0.35	9.55	3.21
70391	2028	13.24	5.44	58.05	0.36	9.72	3.26
72118	2029	13.42	5.45	58.32	0.37	9.88	3.32
73827	2030	13.60	5.46	58.78	0.37	10.04	3.38
75519	2031	13.78	5.49	59.38	0.38	10.20	3.43
77194	2032	13.96	5.52	59.98	0.38	10.35	3.49
78854	2033	14.14	5.56	60.62	0.39	10.50	3.54
80501	2034	14.33	5.61	61.21	0.39	10.65	3.58
82136	2035	14.51	5.64	61.76	0.40	10.79	3.63

Incremental Emissions Reduction at AVO 2.75 (TPY)						
Year	NOx	ROG	CO	SO2	PM10	PM2.5
2012	47.41	13.36	131.68	0.25	7.54	2.95
2015	1.83	0.44	4.48	0.01	0.36	0.13
2016	3.11	0.72	7.54	0.03	0.69	0.23
2017	4.07	0.92	9.71	0.04	1.00	0.33
2018	4.72	1.06	11.25	0.05	1.30	0.44
2019	5.14	1.18	12.53	0.06	1.59	0.53
2020	5.08	1.31	13.86	0.07	1.87	0.63
2021	4.35	1.44	15.20	0.08	2.13	0.71
2022	3.76	1.58	16.43	0.09	2.39	0.80
2023	3.67	1.66	17.38	0.10	2.64	0.88
2024	3.97	1.74	18.32	0.11	2.88	0.96
2025	4.28	1.84	19.39	0.12	3.11	1.04
2026	4.58	1.93	20.48	0.12	3.34	1.12
2027	4.87	2.03	21.54	0.13	3.56	1.20
2028	5.15	2.12	22.56	0.14	3.78	1.27
2029	5.41	2.20	23.53	0.15	3.99	1.34
2030	5.67	2.28	24.52	0.16	4.19	1.41
2031	5.93	2.36	25.55	0.16	4.39	1.48
2032	6.18	2.44	26.55	0.17	4.58	1.54
2033	6.43	2.53	27.54	0.18	4.77	1.61
2034	6.67	2.61	28.49	0.18	4.96	1.67
2035	6.91	2.69	29.41	0.19	5.14	1.73

Emissions Reduction at AVO 3.00 (TPY)							
Active wells	Year	NOx	ROG	CO	SO2	PM10	PM2.5
43028	2012	51.22	14.43	142.26	0.27	8.15	3.19
45301	2015	39.33	9.44	96.35	0.28	7.85	2.76
47476	2016	35.82	8.34	86.98	0.29	7.94	2.67
49596	2017	33.18	7.53	79.23	0.30	8.16	2.73
51668	2018	30.48	6.85	72.68	0.31	8.41	2.81
53694	2019	27.96	6.43	68.13	0.32	8.65	2.89
55679	2020	24.17	6.24	65.92	0.33	8.88	2.98
57625	2021	18.55	6.16	64.83	0.34	9.10	3.05
59535	2022	14.65	6.14	64.03	0.35	9.31	3.11
61413	2023	13.23	5.98	62.73	0.35	9.52	3.18
63260	2024	13.41	5.87	61.88	0.36	9.72	3.26
65080	2025	13.65	5.86	61.84	0.37	9.93	3.33
66873	2026	13.88	5.85	62.05	0.37	10.13	3.40
68643	2027	14.10	5.86	62.35	0.38	10.31	3.47
70391	2028	14.31	5.88	62.71	0.39	10.50	3.53
72118	2029	14.50	5.89	63.01	0.40	10.68	3.59
73827	2030	14.69	5.90	63.51	0.40	10.85	3.65
75519	2031	14.89	5.93	64.15	0.41	11.02	3.71
77194	2032	15.08	5.97	64.80	0.41	11.19	3.77
78854	2033	15.28	6.01	65.49	0.42	11.35	3.82
80501	2034	15.48	6.06	66.13	0.42	11.51	3.87
82136	2035	15.68	6.09	66.73	0.43	11.66	3.93

Incremental Emissions Reduction at AVO 3.00 (TPY)						
Year	NOx	ROG	CO	SO2	PM10	PM2.5
2012	51.22	14.43	142.26	0.27	8.15	3.19
2015	1.97	0.47	4.84	0.01	0.39	0.14
2016	3.36	0.78	8.15	0.03	0.74	0.25
2017	4.39	1.00	10.49	0.04	1.08	0.36
2018	5.10	1.15	12.15	0.05	1.41	0.47
2019	5.55	1.28	13.53	0.06	1.72	0.57
2020	5.49	1.42	14.98	0.07	2.02	0.68
2021	4.70	1.56	16.42	0.08	2.31	0.77
2022	4.06	1.70	17.75	0.10	2.58	0.86
2023	3.96	1.79	18.78	0.11	2.85	0.95
2024	4.29	1.88	19.79	0.11	3.11	1.04
2025	4.62	1.98	20.95	0.12	3.36	1.13
2026	4.95	2.09	22.13	0.13	3.61	1.21
2027	5.26	2.19	23.27	0.14	3.85	1.29
2028	5.56	2.29	24.38	0.15	4.08	1.37
2029	5.85	2.37	25.42	0.16	4.31	1.45
2030	6.13	2.46	26.49	0.17	4.53	1.52
2031	6.41	2.55	27.60	0.18	4.74	1.59
2032	6.67	2.64	28.68	0.18	4.95	1.67
2033	6.94	2.73	29.76	0.19	5.16	1.74
2034	7.21	2.82	30.78	0.20	5.36	1.80
2035	7.47	2.90	31.77	0.20	5.55	1.87

Incremental Emissions Reduction at AVO 1.50 (TPY/well)									
Drilled Wells	Year	NOx	ROG	CO	SO2	PM10	PM2.5	Total VERA Contribution	VERA Fee Reduction
3966	2015	0.000090	0.000022	0.000222	0.000001	0.000018	0.000006	0.000130	$0 91
3970	2016	0.000154	0.000036	0.000373	0.000001	0.000034	0.000011	0.000224	$1 56
3976	2017	0.000201	0.000046	0.000480	0.000002	0.000049	0.000017	0.000296	$2 06
3982	2018	0.000233	0.000052	0.000555	0.000002	0.000064	0.000021	0.000349	$2.44
3988	2019	0.000253	0.000058	0.000617	0.000003	0.000078	0.000026	0.000390	$2.72
3994	2020	0.000250	0.000065	0.000682	0.000003	0.000092	0.000031	0.000406	$2 83
4000	2021	0.000214	0.000071	0.000746	0.000004	0.000105	0.000035	0.000389	$2.71
4006	2022	0.000184	0.000077	0.000806	0.000004	0.000117	0.000039	0.000379	$2.64
4012	2023	0.000180	0.000081	0.000851	0.000005	0.000129	0.000043	0.000390	$2.72
4018	2024	0.000194	0.000085	0.000895	0.000005	0.000141	0.000047	0.000420	$2 93
4024	2025	0.000209	0.000090	0.000947	0.000006	0.000152	0.000051	0.000451	$3.14
4030	2026	0.000223	0.000094	0.000998	0.000006	0.000163	0.000055	0.000480	$3 35
4036	2027	0.000237	0.000099	0.001048	0.000006	0.000173	0.000058	0.000509	$3 55
4042	2028	0.000250	0.000103	0.001097	0.000007	0.000184	0.000062	0.000537	$3.74
4048	2029	0.000263	0.000107	0.001142	0.000007	0.000193	0.000065	0.000563	$3 92
4054	2030	0.000275	0.000110	0.001188	0.000008	0.000203	0.000068	0.000588	$4.10
4060	2031	0.000287	0.000114	0.001236	0.000008	0.000212	0.000071	0.000613	$4 28
4066	2032	0.000298	0.000118	0.001283	0.000008	0.000221	0.000075	0.000638	$4.45
4071	2033	0.000310	0.000122	0.001329	0.000008	0.000230	0.000078	0.000662	$4.62
4077	2034	0.000321	0.000126	0.001373	0.000009	0.000239	0.000080	0.000686	$4.78
4083	2035	0.000332	0.000129	0.001415	0.000009	0.000247	0.000083	0.000709	$4 94
								Average:	$3 26

AVO	VERA Fee Reduction
1.50	$3.26
1.75	$7.45
2.00	$10.59
2.25	$13.03
2.50	$14.98
2.75	$16.58
3.00	$17.92

Incremental Emissions Reduction at AVO 1.75 (TPY/well)									
Drilled Wells	Year	NOx	ROG	CO	SO2	PM10	PM2.5	Total VERA Contribution	VERA Fee Reduction
3966	2015	0.000207	0.000050	0.000507	0.000001	0.000041	0.000014	0.000298	$2 08
3970	2016	0.000351	0.000082	0.000853	0.000003	0.000078	0.000026	0.000511	$3 56
3976	2017	0.000459	0.000104	0.001097	0.000004	0.000113	0.000038	0.000676	$4.72
3982	2018	0.000532	0.000120	0.001268	0.000005	0.000147	0.000049	0.000798	$5 57
3988	2019	0.000579	0.000133	0.001410	0.000007	0.000179	0.000060	0.000891	$6 21
3994	2020	0.000571	0.000148	0.001559	0.000008	0.000210	0.000070	0.000929	$6.48
4000	2021	0.000488	0.000162	0.001706	0.000009	0.000240	0.000080	0.000890	$6 21
4006	2022	0.000421	0.000177	0.001842	0.000010	0.000268	0.000090	0.000866	$6 04
4012	2023	0.000410	0.000185	0.001945	0.000011	0.000295	0.000099	0.000891	$6 21
4018	2024	0.000444	0.000194	0.002047	0.000012	0.000322	0.000108	0.000960	$6.69
4024	2025	0.000478	0.000205	0.002164	0.000013	0.000347	0.000116	0.001030	$7.18
4030	2026	0.000510	0.000215	0.002282	0.000014	0.000372	0.000125	0.001098	$7.66
4036	2027	0.000542	0.000225	0.002396	0.000015	0.000396	0.000133	0.001163	$8.11
4042	2028	0.000572	0.000235	0.002506	0.000015	0.000420	0.000141	0.001226	$8 55
4048	2029	0.000600	0.000244	0.002609	0.000016	0.000442	0.000149	0.001286	$8 97
4054	2030	0.000628	0.000252	0.002716	0.000017	0.000464	0.000156	0.001345	$9 38
4060	2031	0.000656	0.000261	0.002825	0.000018	0.000485	0.000163	0.001402	$9.78
4066	2032	0.000682	0.000270	0.002931	0.000019	0.000506	0.000170	0.001458	$10.17
4071	2033	0.000709	0.000279	0.003038	0.000019	0.000526	0.000177	0.001514	$10 56
4077	2034	0.000735	0.000287	0.003138	0.000020	0.000546	0.000184	0.001568	$10 93
4083	2035	0.000760	0.000295	0.003234	0.000021	0.000565	0.000190	0.001620	$11 30
								Average:	$7.45

Incremental Emissions Reduction at AVO 2.0 (TPY/well)									
Drilled Wells	Year	NOx	ROG	CO	SO2	PM10	PM2.5	Total VERA Contribution	VERA Fee Reduction
3966	2015	0.000294	0.000071	0.000720	0.000002	0.000059	0.000021	0.000423	$2 95
3970	2016	0.000499	0.000116	0.001213	0.000004	0.000111	0.000037	0.000726	$5 07
3976	2017	0.000653	0.000148	0.001559	0.000006	0.000161	0.000054	0.000962	$6.71
3982	2018	0.000756	0.000170	0.001804	0.000008	0.000209	0.000070	0.001135	$7 92
3988	2019	0.000823	0.000189	0.002005	0.000009	0.000255	0.000085	0.001267	$8 84
3994	2020	0.000813	0.000210	0.002216	0.000011	0.000299	0.000100	0.001321	$9 21
4000	2021	0.000694	0.000231	0.002426	0.000013	0.000341	0.000114	0.001265	$8 82
4006	2022	0.000599	0.000251	0.002619	0.000014	0.000381	0.000127	0.001231	$8 59
4012	2023	0.000583	0.000264	0.002766	0.000016	0.000420	0.000140	0.001267	$8 84
4018	2024	0.000631	0.000276	0.002910	0.000017	0.000457	0.000153	0.001364	$9 52
4024	2025	0.000679	0.000291	0.003077	0.000018	0.000494	0.000166	0.001464	$10 21
4030	2026	0.000726	0.000306	0.003244	0.000020	0.000529	0.000178	0.001561	$10 89
4036	2027	0.000770	0.000320	0.003407	0.000021	0.000563	0.000189	0.001654	$11 54
4042	2028	0.000813	0.000334	0.003564	0.000022	0.000597	0.000200	0.001744	$12.16
4048	2029	0.000854	0.000347	0.003710	0.000023	0.000629	0.000211	0.001829	$12.75
4054	2030	0.000893	0.000359	0.003862	0.000024	0.000660	0.000222	0.001912	$13 33
4060	2031	0.000932	0.000372	0.004017	0.000025	0.000690	0.000232	0.001994	$13 90
4066	2032	0.000970	0.000384	0.004168	0.000027	0.000720	0.000242	0.002073	$14.46
4071	2033	0.001008	0.000396	0.004319	0.000028	0.000748	0.000252	0.002152	$15 01
4077	2034	0.001045	0.000409	0.004461	0.000029	0.000776	0.000261	0.002229	$15 55
4083	2035	0.001081	0.000420	0.004598	0.000030	0.000803	0.000271	0.002304	$16 07

Average:	$10 59

Incremental Emissions Reduction at AVO 2.25 (TPY/well)

Drilled Wells	Year	NOx	ROG	CO	SO2	PM10	PM2.5	Total VERA Contribution	VERA Fee Reduction
3966	2015	0.000362	0.000087	0.000887	0.000003	0.000072	0.000025	0.000521	$3.63
3970	2016	0.000615	0.000143	0.001493	0.000005	0.000136	0.000046	0.000894	$6 24
3976	2017	0.000804	0.000182	0.001919	0.000007	0.000198	0.000066	0.001184	$8 26
3982	2018	0.000931	0.000209	0.002220	0.000010	0.000257	0.000086	0.001397	$9.74
3988	2019	0.001013	0.000233	0.002468	0.000012	0.000313	0.000105	0.001559	$10 87
3994	2020	0.001000	0.000258	0.002727	0.000014	0.000367	0.000123	0.001626	$11 34
4000	2021	0.000854	0.000284	0.002986	0.000015	0.000419	0.000140	0.001557	$10 86
4006	2022	0.000738	0.000309	0.003223	0.000017	0.000469	0.000157	0.001515	$10 57
4012	2023	0.000718	0.000324	0.003404	0.000019	0.000517	0.000173	0.001559	$10 87
4018	2024	0.000776	0.000340	0.003582	0.000021	0.000563	0.000188	0.001679	$11.71
4024	2025	0.000836	0.000359	0.003787	0.000023	0.000608	0.000204	0.001802	$12 57
4030	2026	0.000893	0.000377	0.003993	0.000024	0.000652	0.000219	0.001921	$13.40
4036	2027	0.000948	0.000394	0.004193	0.000026	0.000693	0.000233	0.002036	$14 20
4042	2028	0.001001	0.000411	0.004386	0.000027	0.000734	0.000247	0.002146	$14 97
4048	2029	0.001051	0.000426	0.004566	0.000029	0.000774	0.000260	0.002251	$15.70
4054	2030	0.001099	0.000442	0.004753	0.000030	0.000812	0.000273	0.002353	$16.41
4060	2031	0.001147	0.000457	0.004944	0.000031	0.000849	0.000286	0.002454	$17.11
4066	2032	0.001194	0.000472	0.005130	0.000033	0.000886	0.000298	0.002552	$17 80
4071	2033	0.001240	0.000488	0.005316	0.000034	0.000921	0.000310	0.002649	$18.47
4077	2034	0.001286	0.000503	0.005491	0.000035	0.000955	0.000322	0.002744	$19.14
4083	2035	0.001330	0.000517	0.005659	0.000036	0.000989	0.000333	0.002836	$19.78
								Average:	$13 03

Incremental Emissions Reduction at AVO 2.5 (TPY/well)

Drilled Wells	Year	NOx	ROG	CO	SO2	PM10	PM2.5	Total VERA Contribution	VERA Fee Reduction
3966	2015	0.000416	0.000100	0.001020	0.000003	0.000083	0.000029	0.000599	$4.18
3970	2016	0.000707	0.000165	0.001717	0.000006	0.000157	0.000053	0.001028	$7.17
3976	2017	0.000924	0.000210	0.002207	0.000008	0.000227	0.000076	0.001361	$9.49
3982	2018	0.001071	0.000241	0.002553	0.000011	0.000295	0.000099	0.001607	$11 20
3988	2019	0.001165	0.000268	0.002838	0.000013	0.000360	0.000121	0.001793	$12 51
3994	2020	0.001150	0.000297	0.003137	0.000016	0.000423	0.000142	0.001870	$13 04
4000	2021	0.000982	0.000326	0.003434	0.000018	0.000482	0.000161	0.001791	$12.49
4006	2022	0.000848	0.000355	0.003707	0.000020	0.000539	0.000180	0.001743	$12.15
4012	2023	0.000826	0.000373	0.003915	0.000022	0.000594	0.000199	0.001793	$12 51
4018	2024	0.000893	0.000391	0.004119	0.000024	0.000647	0.000217	0.001931	$13.47
4024	2025	0.000961	0.000413	0.004355	0.000026	0.000699	0.000234	0.002073	$14.45
4030	2026	0.001027	0.000433	0.004592	0.000028	0.000749	0.000252	0.002210	$15.41
4036	2027	0.001090	0.000453	0.004822	0.000029	0.000797	0.000268	0.002341	$16 33
4042	2028	0.001151	0.000473	0.005044	0.000031	0.000845	0.000284	0.002468	$17 21
4048	2029	0.001208	0.000490	0.005251	0.000033	0.000890	0.000299	0.002588	$18 05
4054	2030	0.001264	0.000508	0.005466	0.000035	0.000934	0.000314	0.002706	$18 87
4060	2031	0.001320	0.000526	0.005685	0.000036	0.000976	0.000329	0.002822	$19.68
4066	2032	0.001373	0.000543	0.005900	0.000038	0.001018	0.000343	0.002935	$20.47
4071	2033	0.001426	0.000561	0.006113	0.000039	0.001059	0.000357	0.003046	$21 25
4077	2034	0.001478	0.000578	0.006315	0.000040	0.001099	0.000370	0.003155	$22 01
4083	2035	0.001529	0.000594	0.006508	0.000042	0.001137	0.000383	0.003261	$22.74
								Average:	$14 98

Incremental Emissions Reduction at AVO 2.75 (TPY/well)									
Drilled Wells	Year	NOx	ROG	CO	SO2	PM10	PM2.5	Total VERA Contribution	VERA Fee Reduction
3966	2015	0.000461	0.000111	0.001128	0.000003	0.000092	0.000032	0.000663	$4.63
3970	2016	0.000782	0.000182	0.001900	0.000006	0.000173	0.000058	0.001138	$7 94
3976	2017	0.001023	0.000232	0.002443	0.000009	0.000251	0.000084	0.001507	$10 51
3982	2018	0.001185	0.000266	0.002825	0.000012	0.000327	0.000109	0.001778	$12.40
3988	2019	0.001289	0.000296	0.003141	0.000015	0.000399	0.000133	0.001985	$13 84
3994	2020	0.001273	0.000329	0.003471	0.000017	0.000468	0.000157	0.002069	$14.43
4000	2021	0.001087	0.000361	0.003800	0.000020	0.000534	0.000179	0.001982	$13 82
4006	2022	0.000939	0.000393	0.004102	0.000022	0.000597	0.000199	0.001928	$13.45
4012	2023	0.000914	0.000413	0.004332	0.000024	0.000658	0.000220	0.001984	$13 84
4018	2024	0.000988	0.000433	0.004559	0.000026	0.000716	0.000240	0.002137	$14 90
4024	2025	0.001064	0.000457	0.004820	0.000029	0.000774	0.000259	0.002294	$16 00
4030	2026	0.001137	0.000479	0.005082	0.000031	0.000829	0.000278	0.002445	$17 05
4036	2027	0.001207	0.000502	0.005336	0.000032	0.000883	0.000297	0.002591	$18 07
4042	2028	0.001273	0.000523	0.005582	0.000034	0.000935	0.000314	0.002731	$19 05
4048	2029	0.001337	0.000543	0.005812	0.000037	0.000985	0.000331	0.002865	$19 98
4054	2030	0.001399	0.000562	0.006049	0.000038	0.001034	0.000348	0.002995	$20 89
4060	2031	0.001460	0.000582	0.006292	0.000040	0.001081	0.000364	0.003123	$21.78
4066	2032	0.001520	0.000601	0.006529	0.000042	0.001127	0.000380	0.003248	$22.65
4071	2033	0.001578	0.000621	0.006766	0.000043	0.001172	0.000395	0.003371	$23 51
4077	2034	0.001636	0.000640	0.006989	0.000045	0.001216	0.000409	0.003492	$24 35
4083	2035	0.001693	0.000658	0.007202	0.000046	0.001259	0.000424	0.003609	$25.17
								Average:	$16 58

Incremental Emissions Reduction at AVO 3.00 (TPY/well)									
Drilled Wells	Year	NOx	ROG	CO	SO2	PM10	PM2.5	Total VERA Contribution	VERA Fee Reduction
3966	2015	0.000498	0.000119	0.001219	0.000004	0.000099	0.000035	0.000717	$5 00
3970	2016	0.000845	0.000197	0.002053	0.000007	0.000187	0.000063	0.001229	$8 57
3976	2017	0.001105	0.000251	0.002639	0.000010	0.000272	0.000091	0.001628	$11 35
3982	2018	0.001280	0.000288	0.003052	0.000013	0.000353	0.000118	0.001921	$13.40
3988	2019	0.001393	0.000320	0.003394	0.000016	0.000431	0.000144	0.002144	$14 95
3994	2020	0.001375	0.000355	0.003750	0.000019	0.000505	0.000169	0.002236	$15 59
4000	2021	0.001174	0.000390	0.004105	0.000021	0.000576	0.000193	0.002141	$14 93
4006	2022	0.001014	0.000425	0.004432	0.000024	0.000644	0.000215	0.002083	$14 53
4012	2023	0.000987	0.000446	0.004681	0.000026	0.000710	0.000238	0.002144	$14 95
4018	2024	0.001067	0.000468	0.004925	0.000028	0.000774	0.000259	0.002309	$16.10
4024	2025	0.001149	0.000493	0.005207	0.000031	0.000836	0.000280	0.002478	$17 28
4030	2026	0.001228	0.000518	0.005490	0.000033	0.000896	0.000301	0.002642	$18.43
4036	2027	0.001304	0.000542	0.005765	0.000035	0.000953	0.000320	0.002799	$19 52
4042	2028	0.001376	0.000565	0.006031	0.000037	0.001010	0.000339	0.002951	$20 58
4048	2029	0.001445	0.000586	0.006279	0.000039	0.001064	0.000358	0.003095	$21 58
4054	2030	0.001512	0.000607	0.006535	0.000041	0.001117	0.000376	0.003236	$22 57
4060	2031	0.001578	0.000629	0.006798	0.000043	0.001167	0.000393	0.003374	$23 53
4066	2032	0.001642	0.000650	0.007054	0.000045	0.001218	0.000410	0.003509	$24.47
4071	2033	0.001705	0.000671	0.007309	0.000047	0.001266	0.000427	0.003642	$25.40
4077	2034	0.001768	0.000691	0.007550	0.000048	0.001314	0.000442	0.003773	$26 31
4083	2035	0.001829	0.000711	0.007781	0.000050	0.001360	0.000458	0.003899	$27.19
								Average:	$17 92

APPENDIX G

Menu Option 3 Calculations

UID	PRJNAME	AIRBASIN	COUNTY	ACTIVITY	SITE	RPTPHASE	TPT
ABD_4AA0HIK86	KCOGW	SJV	Kern	Construction	001000	Well Abandonment	102
ABD_4AA0HIK87	KCOGW	SJV	Kern	Construction	002000	Well Abandonment	112
ABD_4AA0HIK8M	KCOGW	SJV	Kern	Construction	003000	Well Abandonment	122
ABD_4AA0HIK8N	KCOGW	SJV	Kern	Construction	004000	Well Abandonment	132
ABD_4AA0HIK8O	KCOGW	SJV	Kern	Construction	005000	Well Abandonment	132
ABD_4AA0HIK8P	KCOGW	SJV	Kern	Construction	006000	Well Abandonment	142
ABD_4AA0HIK92	KCOGW	SJV	Kern	Construction	007000	Well Abandonment	142
ABD_4AA0HIK93	KCOGW	SJV	Kern	Construction	008000	Well Abandonment	152
ABD_4AA0HIK94	KCOGW	SJV	Kern	Construction	009000	Well Abandonment	152
ABD_4AA0HIK95	KCOGW	SJV	Kern	Construction	010000	Well Abandonment	152
ABD_4AA0HIK9H	KCOGW	SJV	Kern	Construction	011000	Well Abandonment	152
ABD_4AA0HIK9I	KCOGW	SJV	Kern	Construction	012000	Well Abandonment	162
ABD_4AA0HIK9J	KCOGW	SJV	Kern	Construction	013000	Well Abandonment	162
ABD_4AA0HIK9K	KCOGW	SJV	Kern	Construction	014000	Well Abandonment	162
ABD_4AA0HIK9X	KCOGW	SJV	Kern	Construction	015000	Well Abandonment	162
ABD_4AA0HIK9Y	KCOGW	SJV	Kern	Construction	016000	Well Abandonment	172
ABD_4AA0HIK9Z	KCOGW	SJV	Kern	Construction	017000	Well Abandonment	172
ABD_4AA0HIKA0	KCOGW	SJV	Kern	Construction	018000	Well Abandonment	172
ABD_4AA0HIKAC	KCOGW	SJV	Kern	Construction	019000	Well Abandonment	172
ABD_4AA0HIKAD	KCOGW	SJV	Kern	Construction	020000	Well Abandonment	182
ABD_4AA0HIKAE	KCOGW	SJV	Kern	Construction	021000	Well Abandonment	182
ABD_4AA0HIKAF	KCOGW	SJV	Kern	Construction	022000	Well Abandonment	182
ABD_4AA0HIKAS	KCOGW	SJV	Kern	Construction	023000	Well Abandonment	182
ABD_4AA0HIKAT	KCOGW	SJV	Kern	Construction	024000	Well Abandonment	182
ABD_4AA0HIKAU	KCOGW	SJV	Kern	Construction	025000	Well Abandonment	182

OFSVMT	ONSVMT	UPRVMT	UPRPM30LB	UPRPM10LB	UPRPM25LB
297.84	1.0914	9.8226	58.81069242	16.24810443	1.622908613
327.04	1.1984	10.7856	62.24393136	17.07459579	1.705286059
356.24	1.3054	11.7486	65.6771703	17.90108715	1.787663505
385.44	1.4124	12.7116	69.11040924	18.7275785	1.87004095
385.44	1.4124	12.7116	69.11040924	18.7275785	1.87004095
414.64	1.5194	13.6746	72.54364819	19.55406986	1.952418396
414.64	1.5194	13.6746	72.54364819	19.55406986	1.952418396
443.84	1.6264	14.6376	75.97688713	20.38056121	2.034795841
443.84	1.6264	14.6376	75.97688713	20.38056121	2.034795841
443.84	1.6264	14.6376	75.97688713	20.38056121	2.034795841
443.84	1.6264	14.6376	75.97688713	20.38056121	2.034795841
473.04	1.7334	15.6006	79.41012607	21.20705257	2.117173287
473.04	1.7334	15.6006	79.41012607	21.20705257	2.117173287
473.04	1.7334	15.6006	79.41012607	21.20705257	2.117173287
473.04	1.7334	15.6006	79.41012607	21.20705257	2.117173287
502.24	1.8404	16.5636	82.84336501	22.03354393	2.199550733
502.24	1.8404	16.5636	82.84336501	22.03354393	2.199550733
502.24	1.8404	16.5636	82.84336501	22.03354393	2.199550733
502.24	1.8404	16.5636	82.84336501	22.03354393	2.199550733
531.44	1.9474	17.5266	86.27660395	22.86003528	2.281928178
531.44	1.9474	17.5266	86.27660395	22.86003528	2.281928178
531.44	1.9474	17.5266	86.27660395	22.86003528	2.281928178
531.44	1.9474	17.5266	86.27660395	22.86003528	2.281928178
531.44	1.9474	17.5266	86.27660395	22.86003528	2.281928178
531.44	1.9474	17.5266	86.27660395	22.86003528	2.281928178

UID	PRJNAME	AIRBASIN	COUNTY	ACTIVITY	SITE	RPTPHASE
FCW_4A90VAVL3	KCOGW	SJV	Kern	Construction	001000	Well Construction
FCW_4A90VAVME	KCOGW	SJV	Kern	Construction	002000	Well Construction
FCW_4A90VAVN9	KCOGW	SJV	Kern	Construction	003000	Well Construction
FCW_4A90VAVO5	KCOGW	SJV	Kern	Construction	004000	Well Construction
FCW_4A90VAVP0	KCOGW	SJV	Kern	Construction	005000	Well Construction
FCW_4A90VAVQB	KCOGW	SJV	Kern	Construction	006000	Well Construction
FCW_4A90VAVR6	KCOGW	SJV	Kern	Construction	007000	Well Construction
FCW_4A90VAVSH	KCOGW	SJV	Kern	Construction	008000	Well Construction
FCW_4A90VAVTC	KCOGW	SJV	Kern	Construction	009000	Well Construction
FCW_4A90VAVUN	KCOGW	SJV	Kern	Construction	010000	Well Construction
FCW_4A90VAVVX	KCOGW	SJV	Kern	Construction	011000	Well Construction
FCW_4A90VAVX8	KCOGW	SJV	Kern	Construction	012000	Well Construction
FCW_4A90VAVYJ	KCOGW	SJV	Kern	Construction	013000	Well Construction
FCW_4A90VAVZU	KCOGW	SJV	Kern	Construction	014000	Well Construction
FCW_4A90VAW15	KCOGW	SJV	Kern	Construction	015000	Well Construction
FCW_4A90VAW2V	KCOGW	SJV	Kern	Construction	016000	Well Construction
FCW_4A90VAW46	KCOGW	SJV	Kern	Construction	017000	Well Construction
FCW_4A90VAW5H	KCOGW	SJV	Kern	Construction	018000	Well Construction
FCW_4A90VAW6R	KCOGW	SJV	Kern	Construction	019000	Well Construction
FCW_4A90VAW8I	KCOGW	SJV	Kern	Construction	020000	Well Construction
FCW_4A90VAW9T	KCOGW	SJV	Kern	Construction	021000	Well Construction
FCW_4A90VAWBJ	KCOGW	SJV	Kern	Construction	022000	Well Construction
FCW_4A90VAWDP	KCOGW	SJV	Kern	Construction	023000	Well Construction
FCW_4A90VAWFF	KCOGW	SJV	Kern	Construction	024000	Well Construction
FCW_4A90VAWHL	KCOGW	SJV	Kern	Construction	025000	Well Construction

TPT	OFSVMT	ONSVMT	UPRVMT	UPRPM30LB	UPRPM10LB	UPRPM25LB
1024	43765.76	10.9568	98.6112	822.9358365	239.524712	23.94187529
1066	45560.84	11.4062	102.6558	840.329397	243.9732123	24.3856929
1110	47441.4	11.877	106.893	855.4356483	247.6097743	24.74815366
1160	49578.4	12.412	111.708	878.5497569	253.6967042	25.35570555
1214	51886.36	12.9898	116.9082	897.0892471	258.1597575	25.80054376
1346	57528.04	14.4022	129.6198	988.5043332	284.2166103	28.40432721
1398	59750.52	14.9586	134.6274	1006.357176	288.5143654	28.83268993
1488	63597.12	15.9216	143.2944	1041.717261	297.4186425	29.72083544
1584	67700.16	16.9488	152.5392	1080.624269	307.3074326	30.70732358
1722	73598.28	18.4254	165.8286	1132.463902	320.1788682	31.99088083
1894	80949.56	20.2658	182.3922	1221.255181	344.1668853	34.38609623
2072	88557.28	22.1704	199.5336	1289.801726	361.3215229	36.0969956
2272	97105.28	24.3104	218.7936	1365.901397	380.2944414	37.98912534
2558	109328.92	27.3706	246.3354	1495.318578	414.1930782	41.37235979
2902	124031.48	31.0514	279.4626	1647.622502	453.8626015	45.33121576
3292	140700.08	35.2244	317.0196	1796.388606	490.9819473	49.0330978
3828	163608.72	40.9596	368.6364	2042.863308	555.803852	55.50300789
4446	190022.04	47.5722	428.1498	2301.133806	622.0281848	62.1103352
5222	223188.28	55.8754	502.8786	2640.415092	710.1062101	70.89971715
6174	263876.76	66.0618	594.5562	3044.582319	814.1963381	81.28569064
7312	312514.88	78.2384	704.1456	3523.016639	937.0795334	93.54629779
8764	374573.36	93.7748	843.9732	4140.48121	1096.175541	109.4207962
10562	451419.88	113.0134	1017.1206	4909.449373	1294.617752	129.22171
12762	545447.88	136.5534	1228.9806	5850.634247	1537.523137	153.4592688
15498	662384.52	165.8286	1492.4574	7024.911017	1840.852861	183.7264923

UID	PRJNAME	AIRBASIN	COUNTY	ACTIVITY	SITE	RPTPHASE	TPT
FRC_4AA0LRPGH	KCOGW	SJV	Kern	Construction	001000	Well Stimulation	234
FRC_4AA0LRPGI	KCOGW	SJV	Kern	Construction	002000	Well Stimulation	234
FRC_4AA0LRPGJ	KCOGW	SJV	Kern	Construction	003000	Well Stimulation	234
FRC_4AA0LRPGK	KCOGW	SJV	Kern	Construction	004000	Well Stimulation	234
FRC_4AA0LRPGX	KCOGW	SJV	Kern	Construction	005000	Well Stimulation	234
FRC_4AA0LRPGY	KCOGW	SJV	Kern	Construction	006000	Well Stimulation	244
FRC_4AA0LRPGZ	KCOGW	SJV	Kern	Construction	007000	Well Stimulation	244
FRC_4AA0LRPH0	KCOGW	SJV	Kern	Construction	008000	Well Stimulation	244
FRC_4AA0LRPHD	KCOGW	SJV	Kern	Construction	009000	Well Stimulation	244
FRC_4AA0LRPHE	KCOGW	SJV	Kern	Construction	010000	Well Stimulation	244
FRC_4AA0LRPHF	KCOGW	SJV	Kern	Construction	011000	Well Stimulation	236
FRC_4AA0LRPHG	KCOGW	SJV	Kern	Construction	012000	Well Stimulation	236
FRC_4AA0LRPHH	KCOGW	SJV	Kern	Construction	013000	Well Stimulation	236
FRC_4AA0LRPHS	KCOGW	SJV	Kern	Construction	014000	Well Stimulation	236
FRC_4AA0LRPHT	KCOGW	SJV	Kern	Construction	015000	Well Stimulation	236
FRC_4AA0LRPHU	KCOGW	SJV	Kern	Construction	016000	Well Stimulation	238
FRC_4AA0LRPHV	KCOGW	SJV	Kern	Construction	017000	Well Stimulation	238
FRC_4AA0LRPI8	KCOGW	SJV	Kern	Construction	018000	Well Stimulation	238
FRC_4AA0LRPI9	KCOGW	SJV	Kern	Construction	019000	Well Stimulation	238
FRC_4AA0LRPIA	KCOGW	SJV	Kern	Construction	020000	Well Stimulation	238
FRC_4AA0LRPIN	KCOGW	SJV	Kern	Construction	021000	Well Stimulation	238
FRC_4AA0LRPIO	KCOGW	SJV	Kern	Construction	022000	Well Stimulation	238
FRC_4AA0LRPIP	KCOGW	SJV	Kern	Construction	023000	Well Stimulation	238
FRC_4AA0LRPIQ	KCOGW	SJV	Kern	Construction	024000	Well Stimulation	238
FRC_4AA0LRPJ3	KCOGW	SJV	Kern	Construction	025000	Well Stimulation	238

OFSVMT	ONSVMT	UPRVMT	UPRPM30LB	UPRPM10LB	UPRPM25LB
10001.16	2.5038	22.5342	203.7570027	59.8952156	5.987674068
10001.16	2.5038	22.5342	203.7570027	59.8952156	5.987674068
10001.16	2.5038	22.5342	203.7570027	59.8952156	5.987674068
10001.16	2.5038	22.5342	203.7570027	59.8952156	5.987674068
10001.16	2.5038	22.5342	203.7570027	59.8952156	5.987674068
10428.56	2.6108	23.4972	213.1381554	62.67618011	6.265716181
10428.56	2.6108	23.4972	213.1381554	62.67618011	6.265716181
10428.56	2.6108	23.4972	213.1381554	62.67618011	6.265716181
10428.56	2.6108	23.4972	213.1381554	62.67618011	6.265716181
10428.56	2.6108	23.4972	213.1381554	62.67618011	6.265716181
10086.64	2.5252	22.7268	204.4436504	60.06051387	6.004149557
10086.64	2.5252	22.7268	204.4436504	60.06051387	6.004149557
10086.64	2.5252	22.7268	204.4436504	60.06051387	6.004149557
10086.64	2.5252	22.7268	204.4436504	60.06051387	6.004149557
10086.64	2.5252	22.7268	204.4436504	60.06051387	6.004149557
10172.12	2.5466	22.9194	206.6172767	60.71443043	6.069541213
10172.12	2.5466	22.9194	206.6172767	60.71443043	6.069541213
10172.12	2.5466	22.9194	206.6172767	60.71443043	6.069541213
10172.12	2.5466	22.9194	206.6172767	60.71443043	6.069541213
10172.12	2.5466	22.9194	206.6172767	60.71443043	6.069541213
10172.12	2.5466	22.9194	206.6172767	60.71443043	6.069541213
10172.12	2.5466	22.9194	206.6172767	60.71443043	6.069541213
10172.12	2.5466	22.9194	206.6172767	60.71443043	6.069541213
10172.12	2.5466	22.9194	206.6172767	60.71443043	6.069541213
10172.12	2.5466	22.9194	206.6172767	60.71443043	6.069541213
10172.12	2.5466	22.9194	206.6172767	60.71443043	6.069541213
10172.12	2.5466	22.9194	206.6172767	60.71443043	6.069541213

UID	PRJNAME	AIRBASIN	COUNTY	ACTIVITY	SITE	RPTPHASE
REW_4AA0FX5KA	KCOGW	SJV	Kern	Construction	001000	Well Rework / Workover
REW_4AA0FX5KB	KCOGW	SJV	Kern	Construction	002000	Well Rework / Workover
REW_4AA0FX5KQ	KCOGW	SJV	Kern	Construction	003000	Well Rework / Workover
REW_4AA0FX5L5	KCOGW	SJV	Kern	Construction	004000	Well Rework / Workover
REW_4AA0FX5LL	KCOGW	SJV	Kern	Construction	005000	Well Rework / Workover
REW_4AA0FX5LM	KCOGW	SJV	Kern	Construction	006000	Well Rework / Workover
REW_4AA0FX5M0	KCOGW	SJV	Kern	Construction	007000	Well Rework / Workover
REW_4AA0FX5MG	KCOGW	SJV	Kern	Construction	008000	Well Rework / Workover
REW_4AA0FX5MW	KCOGW	SJV	Kern	Construction	009000	Well Rework / Workover
REW_4AA0FX5MX	KCOGW	SJV	Kern	Construction	010000	Well Rework / Workover
REW_4AA0FX5NB	KCOGW	SJV	Kern	Construction	011000	Well Rework / Workover
REW_4AA0FX5NR	KCOGW	SJV	Kern	Construction	012000	Well Rework / Workover
REW_4AA0FX5O6	KCOGW	SJV	Kern	Construction	013000	Well Rework / Workover
REW_4AA0FX5OM	KCOGW	SJV	Kern	Construction	014000	Well Rework / Workover
REW_4AA0FX5P2	KCOGW	SJV	Kern	Construction	015000	Well Rework / Workover
REW_4AA0FX5P3	KCOGW	SJV	Kern	Construction	016000	Well Rework / Workover
REW_4AA0FX5PH	KCOGW	SJV	Kern	Construction	017000	Well Rework / Workover
REW_4AA0FX5PX	KCOGW	SJV	Kern	Construction	018000	Well Rework / Workover
REW_4AA0FX5QC	KCOGW	SJV	Kern	Construction	019000	Well Rework / Workover
REW_4AA0FX5QS	KCOGW	SJV	Kern	Construction	020000	Well Rework / Workover
REW_4AA0FX5R8	KCOGW	SJV	Kern	Construction	021000	Well Rework / Workover
REW_4AA0FX5RN	KCOGW	SJV	Kern	Construction	022000	Well Rework / Workover
REW_4AA0FX5S3	KCOGW	SJV	Kern	Construction	023000	Well Rework / Workover
REW_4AA0FX5SI	KCOGW	SJV	Kern	Construction	024000	Well Rework / Workover
REW_4AA0FX5SY	KCOGW	SJV	Kern	Construction	025000	Well Rework / Workover

TPT	OFSVMT	ONSVMT	UPRVMT	UPRPM30LB	UPRPM10LB	UPRPM25LB
354	15129.96	3.7878	34.0902	302.9480295	88.86922509	8.883933919
388	16583.12	4.1516	37.3644	317.5949988	92.65653228	9.261849568
406	17352.44	4.3442	39.0978	326.7487858	95.12145329	9.507961303
436	18634.64	4.6652	41.9868	337.0485027	97.60092736	9.75509364
452	19318.48	4.8364	43.5276	345.5156419	99.90055011	9.984729887
470	20087.8	5.029	45.261	351.695472	101.3882345	10.13300929
488	20857.12	5.2216	46.9944	357.8753021	102.875919	10.28128869
504	21540.96	5.3928	48.5352	366.3424413	105.1755417	10.51092494
518	22139.32	5.5426	49.8834	371.1489758	106.3326296	10.62625336
538	22994.12	5.7566	51.8094	380.9894106	108.9628489	10.88884059
552	23592.48	5.9064	53.1576	385.7959451	110.1199368	11.00416901
568	24276.32	6.0776	54.6984	391.2891274	111.442323	11.13597292
578	24703.72	6.1846	55.6614	397.6963232	113.2460509	11.3161827
594	25387.56	6.3558	57.2022	403.1895056	114.5684371	11.44798661
608	25985.92	6.5056	58.5504	407.9960401	115.725525	11.56331504
620	26498.8	6.634	59.706	412.1159268	116.7173146	11.66216797
630	26926.2	6.741	60.669	418.5231226	118.5210425	11.84237775
642	27439.08	6.8694	61.8246	422.6430094	119.5128322	11.94123069
656	28037.44	7.0192	63.1728	427.4495439	120.6699201	12.05655911
676	28892.24	7.2332	65.0988	437.2899787	123.3001394	12.31914634
676	28892.24	7.2332	65.0988	437.2899787	123.3001394	12.31914634
690	29490.6	7.383	66.447	442.0965132	124.4572273	12.43447476
706	30174.44	7.5542	67.9878	447.5896955	125.7796134	12.56627867
716	30601.84	7.6612	68.9508	453.9968913	127.5833414	12.74648845
724	30943.76	7.7468	69.7212	456.7434825	128.2445344	12.81239041

UID	PRJNAME	AIRBASIN	COUNTY	ACTIVITY	SITE	RPTPHASE	TPT
MTN_4AA0GZF5O	KCOGW	SJV	Kern	Operational	001000	Well Maintenance	146
MTN_4AA0GZF5P	KCOGW	SJV	Kern	Operational	002000	Well Maintenance	146
MTN_4AA0GZF63	KCOGW	SJV	Kern	Operational	003000	Well Maintenance	146
MTN_4AA0GZF64	KCOGW	SJV	Kern	Operational	004000	Well Maintenance	158
MTN_4AA0GZF6J	KCOGW	SJV	Kern	Operational	005000	Well Maintenance	158
MTN_4AA0GZF6K	KCOGW	SJV	Kern	Operational	006000	Well Maintenance	158
MTN_4AA0GZF6L	KCOGW	SJV	Kern	Operational	007000	Well Maintenance	158
MTN_4AA0GZF6Y	KCOGW	SJV	Kern	Operational	008000	Well Maintenance	158
MTN_4AA0GZF6Z	KCOGW	SJV	Kern	Operational	009000	Well Maintenance	158
MTN_4AA0GZF7E	KCOGW	SJV	Kern	Operational	010000	Well Maintenance	170
MTN_4AA0GZF7F	KCOGW	SJV	Kern	Operational	011000	Well Maintenance	170
MTN_4AA0GZF7G	KCOGW	SJV	Kern	Operational	012000	Well Maintenance	170
MTN_4AA0GZF7U	KCOGW	SJV	Kern	Operational	013000	Well Maintenance	170
MTN_4AA0GZF7V	KCOGW	SJV	Kern	Operational	014000	Well Maintenance	170
MTN_4AA0GZF89	KCOGW	SJV	Kern	Operational	015000	Well Maintenance	170
MTN_4AA0GZF8A	KCOGW	SJV	Kern	Operational	016000	Well Maintenance	170
MTN_4AA0GZF8P	KCOGW	SJV	Kern	Operational	017000	Well Maintenance	170
MTN_4AA0GZF8Q	KCOGW	SJV	Kern	Operational	018000	Well Maintenance	170
MTN_4AA0GZF8R	KCOGW	SJV	Kern	Operational	019000	Well Maintenance	170
MTN_4AA0GZF94	KCOGW	SJV	Kern	Operational	020000	Well Maintenance	170
MTN_4AA0GZF95	KCOGW	SJV	Kern	Operational	021000	Well Maintenance	170
MTN_4AA0GZF9K	KCOGW	SJV	Kern	Operational	022000	Well Maintenance	182
MTN_4AA0GZF9L	KCOGW	SJV	Kern	Operational	023000	Well Maintenance	182
MTN_4AA0GZFA0	KCOGW	SJV	Kern	Operational	024000	Well Maintenance	182
MTN_4AA0GZFA1	KCOGW	SJV	Kern	Operational	025000	Well Maintenance	182

OFSVMT	ONSVMT	UPRVMT	UPRPM30LB	UPRPM10LB	UPRPM25LB
426.32	1.5622	14.0598	112.5783835	32.58874188	3.25718971
426.32	1.5622	14.0598	112.5783835	32.58874188	3.25718971
426.32	1.5622	14.0598	112.5783835	32.58874188	3.25718971
461.36	1.6906	15.2154	116.6982702	33.5805315	3.356042644
461.36	1.6906	15.2154	116.6982702	33.5805315	3.356042644
461.36	1.6906	15.2154	116.6982702	33.5805315	3.356042644
461.36	1.6906	15.2154	116.6982702	33.5805315	3.356042644
461.36	1.6906	15.2154	116.6982702	33.5805315	3.356042644
461.36	1.6906	15.2154	116.6982702	33.5805315	3.356042644
496.4	1.819	16.371	120.8181569	34.57232113	3.454895579
496.4	1.819	16.371	120.8181569	34.57232113	3.454895579
496.4	1.819	16.371	120.8181569	34.57232113	3.454895579
496.4	1.819	16.371	120.8181569	34.57232113	3.454895579
496.4	1.819	16.371	120.8181569	34.57232113	3.454895579
496.4	1.819	16.371	120.8181569	34.57232113	3.454895579
496.4	1.819	16.371	120.8181569	34.57232113	3.454895579
496.4	1.819	16.371	120.8181569	34.57232113	3.454895579
496.4	1.819	16.371	120.8181569	34.57232113	3.454895579
496.4	1.819	16.371	120.8181569	34.57232113	3.454895579
496.4	1.819	16.371	120.8181569	34.57232113	3.454895579
496.4	1.819	16.371	120.8181569	34.57232113	3.454895579
496.4	1.819	16.371	120.8181569	34.57232113	3.454895579
531.44	1.9474	17.5266	124.9380437	35.56411076	3.553748514
531.44	1.9474	17.5266	124.9380437	35.56411076	3.553748514
531.44	1.9474	17.5266	124.9380437	35.56411076	3.553748514
531.44	1.9474	17.5266	124.9380437	35.56411076	3.553748514

UID	PRJNAME	AIRBASIN	COUNTY	ACTIVITY	SITE	RPTPHASE	TPT
2012	KCOGW	SJV	Kern	Operational	All Wells	Routine Operations	312

OFSVMT	ONSVMT	UPRVMT	UPRPM30LB	UPRPM10LB	UPRPM25LB
34.671	3.09504	27.85536	154.4517976	42.02673992	4.196830271

UID	PRJNAME	AIRBASIN	COUNTY	ACTIVITY	SITE	RPTPHASE
2012	KCOGW	SJV	Kern	Operational	Facility Inspection	Facility Inspection
2013	KCOGW	SJV	Kern	Operational	Facility Inspection	Facility Inspection
2014	KCOGW	SJV	Kern	Operational	Facility Inspection	Facility Inspection
2015	KCOGW	SJV	Kern	Operational	Facility Inspection	Facility Inspection
2016	KCOGW	SJV	Kern	Operational	Facility Inspection	Facility Inspection
2017	KCOGW	SJV	Kern	Operational	Facility Inspection	Facility Inspection
2018	KCOGW	SJV	Kern	Operational	Facility Inspection	Facility Inspection
2019	KCOGW	SJV	Kern	Operational	Facility Inspection	Facility Inspection
2020	KCOGW	SJV	Kern	Operational	Facility Inspection	Facility Inspection
2021	KCOGW	SJV	Kern	Operational	Facility Inspection	Facility Inspection
2022	KCOGW	SJV	Kern	Operational	Facility Inspection	Facility Inspection
2023	KCOGW	SJV	Kern	Operational	Facility Inspection	Facility Inspection
2024	KCOGW	SJV	Kern	Operational	Facility Inspection	Facility Inspection
2025	KCOGW	SJV	Kern	Operational	Facility Inspection	Facility Inspection
2026	KCOGW	SJV	Kern	Operational	Facility Inspection	Facility Inspection
2027	KCOGW	SJV	Kern	Operational	Facility Inspection	Facility Inspection
2028	KCOGW	SJV	Kern	Operational	Facility Inspection	Facility Inspection
2029	KCOGW	SJV	Kern	Operational	Facility Inspection	Facility Inspection
2030	KCOGW	SJV	Kern	Operational	Facility Inspection	Facility Inspection
2031	KCOGW	SJV	Kern	Operational	Facility Inspection	Facility Inspection
2032	KCOGW	SJV	Kern	Operational	Facility Inspection	Facility Inspection
2033	KCOGW	SJV	Kern	Operational	Facility Inspection	Facility Inspection
2034	KCOGW	SJV	Kern	Operational	Facility Inspection	Facility Inspection
2035	KCOGW	SJV	Kern	Operational	Facility Inspection	Facility Inspection

TPT	OFSVMT	ONSVMT	UPRVMT	UPRPM30LB	UPRPM10LB		UPRPM25LB
668928	0	211451.136	1903060.224	6784694.153	1633294.73		162792.565
678912	0	214366.464	1929298.176	6878236.374	1655813.36		165037.0255
698880	0	221085.696	1989771.264	7093831.972	1707714.175		170210.0458
708864	0	224001.024	2016009.216	7187374.192	1730232.805		172454.5063
728832	0	230720.256	2076482.304	7402969.79	1782133.619		177627.5265
748800	0	237439.488	2136955.392	7618565.388	1834034.434		182800.5468
768768	0	247842.816	2230585.344	7952370.162	1914392.01		190809.8887
788736	0	254562.048	2291058.432	8167965.76	1966292.825		195982.909
808704	0	261281.28	2351531.52	8383561.358	2018193.64		201155.9293
818688	0	264196.608	2377769.472	8477103.578	2040712.269		203400.3898
828672	0	268000.512	2412004.608	8599156.955	2070094.454		206328.9495
848640	0	274719.744	2472477.696	8814752.553	2121995.269		211501.9698
858624	0	277635.072	2498715.648	8908294.774	2144513.899		213746.4303
878592	0	284354.304	2559188.736	9123890.372	2196414.713		218919.4506
888576	0	287269.632	2585426.688	9217432.592	2218933.343		221163.9111
918528	0	301476.864	2713291.776	9673290.743	2328673.104		232101.8128
938496	0	308196.096	2773764.864	9888886.341	2380573.919		237274.833
948480	0	311111.424	2800002.816	9982428.562	2403092.549		239519.2935
968448	0	317830.656	2860475.904	10198024.16	2454993.363		244692.3138
988416	0	324549.888	2920948.992	10413619.76	2506894.178		249865.3341
998400	0	327465.216	2947186.944	10507161.98	2529412.808		252109.7946
1018368	0	334184.448	3007660.032	10722757.58	2581313.623		257282.8148
1028352	0	337099.776	3033897.984	10816299.8	2603832.252		259527.2753
1048320	0	343819.008	3094371.072	11031895.39	2655733.067		264700.2956

SITE	UPVRVMT Perl Well Constructed	UPRPM10 lbs/well Constructed	UPRPM10 tons/well Constructed
001000	165.0582	404.5372572	0.202268629
002000	173.34	413.599556	0.206799778
003000	180.2736	420.5275303	0.210263765
004000	188.9406	429.9204257	0.214960213
005000	195.6816	436.6831017	0.218341551
006000	212.0526	467.8350948	0.233917547
007000	218.7936	473.6205343	0.236810267
008000	229.9644	485.6509255	0.242825463
009000	240.5574	496.6968036	0.248348402
010000	255.7728	512.1984584	0.256099229
011000	272.9142	534.7278972	0.267363949
012000	292.5594	554.0314123	0.277015706
013000	312.7824	574.8080588	0.287404029
014000	341.865	610.0290818	0.305014541
015000	376.3404	650.8556929	0.325427846

UID	PRJNAME	AIRBAS N	COUNTY	ACTIVITY	SITE	RPTPHASE	TPT	OFSVMT	ONSVMT	UPRVMT	UPRPM10LB
ABD_4AA0HIK86	KCOGW	SJV	Kern	Construction	001000	Well Abandonment	102	297 84	1 0914	9.8226	16.24810443
ABD_4AA0HIK87	KCOGW	SJV	Kern	Construction	002000	Well Abandonment	112	327 04	1.1984	10.7856	17.07459579
ABD_4AA0HIK8M	KCOGW	SJV	Kern	Construction	003000	Well Abandonment	122	356 24	1 3054	11.7486	17.90108715
ABD_4AA0HIK8N	KCOGW	SJV	Kern	Construction	004000	Well Abandonment	132	385.44	1.4124	12.7116	18.7275785
ABD_4AA0HIK8O	KCOGW	SJV	Kern	Construction	005000	Well Abandonment	132	385.44	1.4124	12.7116	18.7275785
ABD_4AA0HIK8P	KCOGW	SJV	Kern	Construction	006000	Well Abandonment	142	414 64	1 5194	13.6746	19.55406986
ABD_4AA0HIK92	KCOGW	SJV	Kern	Construction	007000	Well Abandonment	142	414 64	1 5194	13.6746	19.55406986
ABD_4AA0HIK93	KCOGW	SJV	Kern	Construction	008000	Well Abandonment	152	443 84	1 6264	14.6376	20.38056121
ABD_4AA0HIK94	KCOGW	SJV	Kern	Construction	009000	Well Abandonment	152	443 84	1 6264	14.6376	20.38056121
ABD_4AA0HIK95	KCOGW	SJV	Kern	Construction	010000	Well Abandonment	152	443 84	1 6264	14.6376	20.38056121
ABD_4AA0HIK9H	KCOGW	SJV	Kern	Construction	011000	Well Abandonment	152	443 84	1 6264	14.6376	20.38056121
ABD_4AA0HIK9I	KCOGW	SJV	Kern	Construction	012000	Well Abandonment	162	473 04	1.7334	15.6006	21.20705257
ABD_4AA0HIK9J	KCOGW	SJV	Kern	Construction	013000	Well Abandonment	162	473 04	1.7334	15.6006	21.20705257
ABD_4AA0HIK9K	KCOGW	SJV	Kern	Construction	014000	Well Abandonment	162	473 04	1.7334	15.6006	21.20705257
ABD_4AA0HIK9X	KCOGW	SJV	Kern	Construction	015000	Well Abandonment	162	473 04	1.7334	15.6006	21.20705257
ABD_4AA0HIK9Y	KCOGW	SJV	Kern	Construction	016000	Well Abandonment	172	502 24	1 8404	16.5636	22.03354393
ABD_4AA0HIK9Z	KCOGW	SJV	Kern	Construction	017000	Well Abandonment	172	502 24	1 8404	16.5636	22.03354393
ABD_4AA0HIKA0	KCOGW	SJV	Kern	Construction	018000	Well Abandonment	172	502 24	1 8404	16.5636	22.03354393
ABD_4AA0HIKAC	KCOGW	SJV	Kern	Construction	019000	Well Abandonment	172	502 24	1 8404	16.5636	22.03354393
ABD_4AA0HIKAD	KCOGW	SJV	Kern	Construction	020000	Well Abandonment	182	531.44	1 9474	17.5266	22.86003528
ABD_4AA0HIKAE	KCOGW	SJV	Kern	Construction	021000	Well Abandonment	182	531.44	1 9474	17.5266	22.86003528
ABD_4AA0HIKAF	KCOGW	SJV	Kern	Construction	022000	Well Abandonment	182	531.44	1 9474	17.5266	22.86003528
ABD_4AA0HIKAS	KCOGW	SJV	Kern	Construction	023000	Well Abandonment	182	531.44	1 9474	17.5266	22.86003528
ABD_4AA0HIKAT	KCOGW	SJV	Kern	Construction	024000	Well Abandonment	182	531.44	1 9474	17.5266	22.86003528
ABD_4AA0HIKAU	KCOGW	SJV	Kern	Construction	025000	Well Abandonment	182	531.44	1 9474	17.5266	22.86003528

UID	PRJNAME	AIRBAS N	COUNTY	ACTIVITY	SITE	RPTPHASE	TPT	OFSVMT	ONSVMT	UPRVMT	UPRPM10LB
FCW_4A90VAVL3	KCOGW	SJV	Kern	Construction	001000	Well Construction	1024	43765.76	10 9568	98.6112	239.524712
FCW_4A90VAVME	KCOGW	SJV	Kern	Construction	002000	Well Construction	1066	45560.84	11.4062	102.6558	243.9732123
FCW_4A90VAVN9	KCOGW	SJV	Kern	Construction	003000	Well Construction	1110	47441.4	11.877	106.893	247.6097743
FCW_4A90VAVO5	KCOGW	SJV	Kern	Construction	004000	Well Construction	1160	49578.4	12.412	111.708	253.6967042
FCW_4A90VAVP0	KCOGW	SJV	Kern	Construction	005000	Well Construction	1214	51886.36	12 9898	116.9082	258.1597575
FCW_4A90VAVQB	KCOGW	SJV	Kern	Construction	006000	Well Construction	1346	57528.04	14.4022	129.6198	284.2166103
FCW_4A90VAVR6	KCOGW	SJV	Kern	Construction	007000	Well Construction	1398	59750.52	14 9586	134.6274	288.5143654
FCW_4A90VAVSH	KCOGW	SJV	Kern	Construction	008000	Well Construction	1488	63597.12	15 9216	143.2944	297.4186425
FCW_4A90VAVTC	KCOGW	SJV	Kern	Construction	009000	Well Construction	1584	67700.16	16 9488	152.5392	307.3074326
FCW_4A90VAVUN	KCOGW	SJV	Kern	Construction	010000	Well Construction	1722	73598.28	18.4254	165.8286	320.1788682
FCW_4A90VAVVX	KCOGW	SJV	Kern	Construction	011000	Well Construction	1894	80949.56	20 2658	182.3922	344.1668853
FCW_4A90VAVX8	KCOGW	SJV	Kern	Construction	012000	Well Construction	2072	88557.28	22.1704	199.5336	361.3215229
FCW_4A90VAVYJ	KCOGW	SJV	Kern	Construction	013000	Well Construction	2272	97105.28	24 3104	218.7936	380.2944414
FCW_4A90VAVZU	KCOGW	SJV	Kern	Construction	014000	Well Construction	2558	109328.92	27 3706	246.3354	414.1930782
FCW_4A90VAW15	KCOGW	SJV	Kern	Construction	015000	Well Construction	2902	124031.48	31 0514	279.4626	453.8626015
FCW_4A90VAW2V	KCOGW	SJV	Kern	Construction	016000	Well Construction	3292	140700.08	35 2244	317.0196	490.9819473
FCW_4A90VAW46	KCOGW	SJV	Kern	Construction	017000	Well Construction	3828	163608.72	40 9596	368.6364	555.803852
FCW_4A90VAW5H	KCOGW	SJV	Kern	Construction	018000	Well Construction	4446	190022.04	47 5722	428.1498	622.0281848
FCW_4A90VAW6R	KCOGW	SJV	Kern	Construction	019000	Well Construction	5222	223188.28	55 8754	502.8786	710.1062101
FCW_4A90VAW8I	KCOGW	SJV	Kern	Construction	020000	Well Construction	6174	263876.76	66 0618	594.5562	814.1963381
FCW_4A90VAW9T	KCOGW	SJV	Kern	Construction	021000	Well Construction	7312	312514.88	78 2384	704.1456	937.0795334
FCW_4A90VAWBJ	KCOGW	SJV	Kern	Construction	022000	Well Construction	8764	374573.36	93.7748	843.9732	1096.175541
FCW_4A90VAWDP	KCOGW	SJV	Kern	Construction	023000	Well Construction	10562	451419.88	113 0134	1017.1206	1294.617752
FCW_4A90VAWFF	KCOGW	SJV	Kern	Construction	024000	Well Construction	12762	545447.88	136 5534	1228.9806	1537.523137
FCW_4A90VAWHL	KCOGW	SJV	Kern	Construction	025000	Well Construction	15498	662384.52	165 8286	1492.4574	1840.852861

UID	PRJNAME	AIRBAS N	COUNTY	ACTIVITY	SITE	RPTPHASE	TPT	OFSVMT	ONSVMT	UPRVMT	UPRPM10LB
FRC_4AA0LRPGH	KCOGW	SJV	Kern	Construction	001000	Well Stimulation	234	10001.16	2 5038	22.5342	59.8952156
FRC_4AA0LRPGI	KCOGW	SJV	Kern	Construction	002000	Well Stimulation	234	10001.16	2 5038	22.5342	59.8952156
FRC_4AA0LRPGJ	KCOGW	SJV	Kern	Construction	003000	Well Stimulation	234	10001.16	2 5038	22.5342	59.8952156
FRC_4AA0LRPGK	KCOGW	SJV	Kern	Construction	004000	Well Stimulation	234	10001.16	2 5038	22.5342	59.8952156
FRC_4AA0LRPGX	KCOGW	SJV	Kern	Construction	005000	Well Stimulation	234	10001.16	2 5038	22.5342	59.8952156
FRC_4AA0LRPGY	KCOGW	SJV	Kern	Construction	006000	Well Stimulation	244	10428.56	2 6108	23.4972	62.67618011
FRC_4AA0LRPGZ	KCOGW	SJV	Kern	Construction	007000	Well Stimulation	244	10428.56	2 6108	23.4972	62.67618011
FRC_4AA0LRPH0	KCOGW	SJV	Kern	Construction	008000	Well Stimulation	244	10428.56	2 6108	23.4972	62.67618011
FRC_4AA0LRPHD	KCOGW	SJV	Kern	Construction	009000	Well Stimulation	244	10428.56	2 6108	23.4972	62.67618011
FRC_4AA0LRPHE	KCOGW	SJV	Kern	Construction	010000	Well Stimulation	244	10428.56	2 6108	23.4972	62.67618011
FRC_4AA0LRPHF	KCOGW	SJV	Kern	Construction	011000	Well Stimulation	236	10086.64	2 5252	22.7268	60.06051387
FRC_4AA0LRPHG	KCOGW	SJV	Kern	Construction	012000	Well Stimulation	236	10086.64	2 5252	22.7268	60.06051387
FRC_4AA0LRPHH	KCOGW	SJV	Kern	Construction	013000	Well Stimulation	236	10086.64	2 5252	22.7268	60.06051387
FRC_4AA0LRPHS	KCOGW	SJV	Kern	Construction	014000	Well Stimulation	236	10086.64	2 5252	22.7268	60.06051387
FRC_4AA0LRPHT	KCOGW	SJV	Kern	Construction	015000	Well Stimulation	236	10086.64	2 5252	22.7268	60.06051387
FRC_4AA0LRPHU	KCOGW	SJV	Kern	Construction	016000	Well Stimulation	238	10172.12	2 5466	22.9194	60.71443043
FRC_4AA0LRPHV	KCOGW	SJV	Kern	Construction	017000	Well Stimulation	238	10172.12	2 5466	22.9194	60.71443043
FRC_4AA0LRPI8	KCOGW	SJV	Kern	Construction	018000	Well Stimulation	238	10172.12	2 5466	22.9194	60.71443043
FRC_4AA0LRPI9	KCOGW	SJV	Kern	Construction	019000	Well Stimulation	238	10172.12	2 5466	22.9194	60.71443043
FRC_4AA0LRPIA	KCOGW	SJV	Kern	Construction	020000	Well Stimulation	238	10172.12	2 5466	22.9194	60.71443043
FRC_4AA0LRP N	KCOGW	SJV	Kern	Construction	021000	Well Stimulation	238	10172.12	2 5466	22.9194	60.71443043
FRC_4AA0LRPIO	KCOGW	SJV	Kern	Construction	022000	Well Stimulation	238	10172.12	2 5466	22.9194	60.71443043
FRC_4AA0LRP P	KCOGW	SJV	Kern	Construction	023000	Well Stimulation	238	10172.12	2 5466	22.9194	60.71443043
FRC_4AA0LRPIQ	KCOGW	SJV	Kern	Construction	024000	Well Stimulation	238	10172.12	2 5466	22.9194	60.71443043
FRC_4AA0LRPJ3	KCOGW	SJV	Kern	Construction	025000	Well Stimulation	238	10172.12	2 5466	22.9194	60.71443043

UID	PRJNAME	AIRBAS N	COUNTY	ACTIVITY	SITE	RPTPHASE	TPT	OFSVMT	ONSVMT	UPRVMT	UPRPM10LB
REW_4AA0FX5KA	KCOGW	SJV	Kern	Construction	001000	Well Rework / Workover	354	15129.96	3.7878	34.0902	88.86922509
REW_4AA0FX5KB	KCOGW	SJV	Kern	Construction	002000	Well Rework / Workover	388	16583.12	4.1516	37.3644	92.65653228
REW_4AA0FX5KQ	KCOGW	SJV	Kern	Construction	003000	Well Rework / Workover	406	17352.44	4 3442	39.0978	95.12145329
REW_4AA0FX5L5	KCOGW	SJV	Kern	Construction	004000	Well Rework / Workover	436	18634.64	4 6652	41.9868	97.60092736
REW_4AA0FX5LL	KCOGW	SJV	Kern	Construction	005000	Well Rework / Workover	452	19318.48	4 8364	43.5276	99.90055011
REW_4AA0FX5LM	KCOGW	SJV	Kern	Construction	006000	Well Rework / Workover	470	20087.8	5.029	45.261	101.3882345
REW_4AA0FX5M0	KCOGW	SJV	Kern	Construction	007000	Well Rework / Workover	488	20857.12	5 2216	46.9944	102.875919
REW_4AA0FX5MG	KCOGW	SJV	Kern	Construction	008000	Well Rework / Workover	504	21540.96	5 3928	48.5352	105.1755417
REW_4AA0FX5MW	KCOGW	SJV	Kern	Construction	009000	Well Rework / Workover	518	22139.32	5 5426	49.8834	106.3326296
REW_4AA0FX5MX	KCOGW	SJV	Kern	Construction	010000	Well Rework / Workover	538	22994.12	5.7566	51.8094	108.9628489
REW_4AA0FX5NB	KCOGW	SJV	Kern	Construction	011000	Well Rework / Workover	552	23592.48	5 9064	53.1576	110.1199368
REW_4AA0FX5NR	KCOGW	SJV	Kern	Construction	012000	Well Rework / Workover	568	24276.32	6 0776	54.6984	111.442323
REW_4AA0FX5O6	KCOGW	SJV	Kern	Construction	013000	Well Rework / Workover	578	24703.72	6.1846	55.6614	113.2460509
REW_4AA0FX5OM	KCOGW	SJV	Kern	Construction	014000	Well Rework / Workover	594	25387.56	6 3558	57.2022	114.5684371
REW_4AA0FX5P2	KCOGW	SJV	Kern	Construction	015000	Well Rework / Workover	608	25985.92	6 5056	58.5504	115.725525
REW_4AA0FX5P3	KCOGW	SJV	Kern	Construction	016000	Well Rework / Workover	620	26498.8	6.634	59.706	116.7173146
REW_4AA0FX5PH	KCOGW	SJV	Kern	Construction	017000	Well Rework / Workover	630	26926.2	6.741	60.669	118.5210425
REW_4AA0FX5PX	KCOGW	SJV	Kern	Construction	018000	Well Rework / Workover	642	27439.08	6 8694	61.8246	119.5128322
REW_4AA0FX5QC	KCOGW	SJV	Kern	Construction	019000	Well Rework / Workover	656	28037.44	7 0192	63.1728	120.6699201
REW_4AA0FX5QS	KCOGW	SJV	Kern	Construction	020000	Well Rework / Workover	676	28892.24	7 2332	65.0988	123.3001394
REW_4AA0FX5R8	KCOGW	SJV	Kern	Construction	021000	Well Rework / Workover	676	28892.24	7 2332	65.0988	123.3001394
REW_4AA0FX5RN	KCOGW	SJV	Kern	Construction	022000	Well Rework / Workover	690	29490.6	7.383	66.447	124.4572273
REW_4AA0FX5S3	KCOGW	SJV	Kern	Construction	023000	Well Rework / Workover	706	30174.44	7 5542	67.9878	125.7796134
REW_4AA0FX5SI	KCOGW	SJV	Kern	Construction	024000	Well Rework / Workover	716	30601.84	7 6612	68.9508	127.5833414
REW_4AA0FX5SY	KCOGW	SJV	Kern	Construction	025000	Well Rework / Workover	724	30943.76	7.7468	69.7212	128.2445344

	Wells Drilled Each Year	UPRPM10 tons	VMT				
	1000	305	61.69193172	50342.75			
	2000	1414	292.4148861	245102.8			
	3000	930	195.5453016	167654.4			
	4000	174	37.40307703	32875.66			
	5000	300	65.50246526	58704.48			
	6000	69	16.14031077	14631.63			
	7000	44	10.41965176	9626.918			
2012	8000	23	5.584985643	5289.181			
	9000	33.00	8.195497259	7938.394			
	10000	21	5.378083814	5371.229			
	11000	25	6.684098715	6822.855			
	12000	27	7.479424066	7899.104			
	13000	20	5.748080588	6255.648	Total VMT	620942.6	
	14000	6	1.830087245	2051.19	Total Wells	3392	
	15000	1	0.325427846	376.3404	Total PM1(	720.3433	VERA tons/ 0.212365
	1000	323	65.33276703	53313.8			
	2000	1575	325.7096503	273010.5			
	3000	1128	237.1775271	203348.6			
	4000	218	46.8613264	41189.05			
	5000	363	79.25798296	71032.42			
	6000	89	20.81866172	18872.68			
	7000	55	13.02456469	12033.65			
2015	8000	25	6.070636569	5749.11			
	9000	37.00	9.188890866	8900.624			
	10000	33.00	8.451274564	8440.502			
	11000	31	8.288282406	8460.34			
	12000	41	11.35764395	11994.94			
	13000	36	10.34654506	11260.17	Total VMT	731777.7	
	14000	10	3.050145409	3418.65	Total Wells	3966	
	15000	2	0.650855693	752.6808	Total PM1(	845.5868	VERA tons/ 0.213209
	1000	323	65.33276703	53313.8			
	2000	1577	326.1232499	273357.2			
	3000	1130	237.5980546	203709.2			
	4000	218	46.8613264	41189.05			
	5000	363	79.25798296	71032.42			
	6000	89	20.81866172	18872.68			
	7000	55	13.02456469	12033.65			
2016	8000	25	6.070636569	5749.11			
	9000	37	9.188890866	8900.624			
	10000	33	8.451274564	8440.502			
	11000	31	8.288282406	8460.34			
	12000	41	11.35764395	11994.94			
	13000	36	10.34654506	11260.17	Total VMT	732485	
	14000	10	3.050145409	3418.65	Total Wells	3970	
	15000	2	0.650855693	752.6808	Total PM1(	846.4209	VERA tons/ 0.213204
	1000	323	65.33276703	53313.8			
	2000	1581	326.950449	274050.5			
	3000	1131	237.8083184	203889.4			
	4000	219	47.07628661	41377.99			
	5000	363	79.25798296	71032.42			
	6000	89	20.81866172	18872.68			
	7000	55	13.02456469	12033.65			
2017	8000	25	6.070636569	5749.11			
	9000	37	9.188890866	8900.624			
	10000	33	8.451274564	8440.502			
	11000	31	8.288282406	8460.34			
	12000	41	11.35764395	11994.94			
	13000	36	10.34654506	11260.17	Total VMT	733547.5	
	14000	10	3.050145409	3418.65	Total Wells	3976	
	15000	2	0.650855693	752.6808	Total PM1(	847.6733	VERA tons/ 0.213198
	1000	325	65.73730429	53643.92			
	2000	1582	327.1572488	274223.9			
	3000	1133	238.2288459	204250			
	4000	219	47.07628661	41377.99			
	5000	364	79.47632451	71228.1			
	6000	89	20.81866172	18872.68			
	7000	55	13.02456469	12033.65			
2018	8000	25	6.070636569	5749.11			
	9000	37	9.188890866	8900.624			
	10000	33	8.451274564	8440.502			
	11000	31	8.288282406	8460.34			
	12000	41	11.35764395	11994.94			
	13000	36	10.34654506	11260.17	Total VMT	734607.2	
	14000	10	3.050145409	3418.65	Total Wells	3982	
	15000	2	0.650855693	752.6808	Total PM1(	848.9235	VERA tons/ 0.21319
	1000	325	65.73730429	53643.92			
	2000	1586	327.9844479	274917.2			
	3000	1134	238.4391097	204430.3			
	4000	219	47.07628661	41377.99			

Each year, Unpaved Road Construction Emissions Account for the Following PM (tons/well) Towards the VERA		
Year	Ton of PM10 Emissions	Tons PM10/Well
2015	845.59	0.21
2016	846.42	0.21
2017	847.67	0.21
2018	848.92	0.21
2019	850.18	0.21
2020	852.69	0.21
2021	852.69	0.21
2022	853.94	0.21
2023	855.19	0.21
2024	856.51	0.21
2025	857.78	0.21
2026	859.12	0.21
2027	860.41	0.21
2028	861.66	0.21
2029	862.92	0.21
2030	864.18	0.21
2031	865.49	0.21
2032	866.73	0.21
2033	867.89	0.21
2034	869.14	0.21
2035	870.40	0.21

If Unpaved Roads Utilized for Construction were Instead Paved, the Following PM (tons/well) would be achieved							
Year	g/VMT	lbs/VMT	VMT	lbs	tons	Wells Drilled	tons/well
2015	3.653607	0.010037382	731777.7294	7345.132513	3.672566256	3966	0.000926013
2016	3.653607	0.010037382	732484.9566	7352.231222	3.676115611	3970	0.000925974
2017	3.653607	0.010037382	733547.5308	7362.896685	3.681448343	3976	0.000925918
2018	3.653607	0.010037382	734607.216	7373.53315	3.686766575	3982	0.000925858
2019	3.653607	0.010037382	735676.5312	7384.266275	3.692133138	3988	0.000925811
2020	3.653607	0.010037382	736737.7572	7394.918206	3.697459103	3994	0.000925753
2021	3.653607	0.010037382	737820.9396	7405.790521	3.702895261	4000	0.000925724
2022	3.653607	0.010037382	738867.9132	7416.299395	3.708149697	4006	0.000925649
2023	3.653607	0.010037382	739922.2056	7426.88173	3.713440865	4012	0.000925583
2024	3.653607	0.010037382	741091.2876	7438.616253	3.719308126	4018	0.000925662
2025	3.653607	0.010037382	742182.3666	7449.567829	3.724783915	4024	0.000925642
2026	3.653607	0.010037382	743391.3168	7461.702524	3.730851262	4030	0.00092577
2027	3.653607	0.010037382	744526.5012	7473.096803	3.736548402	4036	0.000925805
2028	3.653607	0.010037382	745580.4084	7483.675273	3.741837636	4042	0.000925739
2029	3.653607	0.010037382	746648.3754	7494.394865	3.747197433	4048	0.000925691
2030	3.653607	0.010037382	747733.2912	7505.284579	3.75264229	4054	0.000925664
2031	3.653607	0.010037382	748886.7726	7516.862513	3.758431256	4060	0.000925722
2032	3.653607	0.010037382	749939.7168	7527.431316	3.763715658	4066	0.000925656
2033	3.653607	0.010037382	751018.4694	7538.259167	3.769129584	4071	0.000925849
2034	3.653607	0.010037382	752064.0948	7548.754509	3.774377254	4077	0.000925773
2035	3.653607	0.010037382	753140.3436	7559.557229	3.779778615	4083	0.000925736

	Reduction: VERA Contribution tons/well	
	0.21	$1,480.46
	0.21	$1,480.43
	0.21	$1,480.38
	0.21	$1,480.33
	0.21	$1,480.29
	0.21	$1,480.21
	0.21	$1,480.21
	0.21	$1,480.15
	0.21	$1,480.10
	0.21	$1,480.17
	0.21	$1,480.16
	0.21	$1,480.26
	0.21	$1,480.29
	0.21	$1,480.24
	0.21	$1,480.20
	0.21	$1,480.17
	0.21	$1,480.22
	0.21	$1,480.17
	0.21	$1,480.32
	0.21	$1,480.26
	0.21	$1,480.23
Average:	0.21	$1,480.25

	5000	365	79.69466607	71423.78				
	6000	89	20.81866172	18872.68				
	7000	55	13.02456469	12033.65				
2019	8000	25	6.070636569	5749.11				
	9000	37	9.188890866	8900.624				
	10000	33	8.451274564	8440.502				
	11000	31	8.288282406	8460.34				
	12000	41	11.35764395	11994.94				
	13000	36	10.34654506	11260.17	Total VMT	735676.5		
	14000	10	3.050145409	3418.65	Total Wells	3988		
	15000	2	0.650855693	752.6808	Total PM10	850.1793	VERA tons/	0.213184
	1000	326	65.93957292	53808.97				
	2000	1588	328.3980474	275263.9				
	3000	1136	238.8596372	204790.8				
	4000	220	47.29124682	41566.93				
	5000	365	79.69466607	71423.78				
	6000	89	20.81866172	18872.68				
	7000	55	13.02456469	12033.65				
2020	8000	25	6.070636569	5749.11				
	9000	37	9.188890866	8900.624				
	10000	33	8.451274564	8440.502				
	11000	31	8.288282406	8460.34				
	12000	41	11.35764395	11994.94				
	13000	36	10.34654506	11260.17	Total VMT	736737.8		
	14000	10	3.050145409	3418.65	Total Wells	3994		
	15000	2	0.650855693	752.6808	Total PM10	851.4307	VERA tons/	0.213177
	1000	326	65.93957292	53808.97				
	2000	1590	328.811647	275610.6				
	3000	1139	239.4904285	205331.6				
	4000	220	47.29124682	41566.93				
	5000	366	79.91300762	71619.47				
	6000	89	20.81866172	18872.68				
	7000	55	13.02456469	12033.65				
2021	8000	25	6.070636569	5749.11				
	9000	37	9.188890866	8900.624				
	10000	33	8.451274564	8440.502				
	11000	31	8.288282406	8460.34				
	12000	41	11.35764395	11994.94				
	13000	36	10.34654506	11260.17	Total VMT	737820.9		
	14000	10	3.050145409	3418.65	Total Wells	4000		
	15000	2	0.650855693	752.6808	Total PM10	852.6934	VERA tons/	0.213173
	1000	326	65.93957292	53808.97				
	2000	1595	329.8456459	276477.3				
	3000	1140	239.7006923	205511.9				
	4000	220	47.29124682	41566.93				
	5000	366	79.91300762	71619.47				
	6000	89	20.81866172	18872.68				
	7000	55	13.02456469	12033.65				
2022	8000	25	6.070636569	5749.11				
	9000	37	9.188890866	8900.624				
	10000	33	8.451274564	8440.502				
	11000	31	8.288282406	8460.34				
	12000	41	11.35764395	11994.94				
	13000	36	10.34654506	11260.17	Total VMT	738867.9		
	14000	10	3.050145409	3418.65	Total Wells	4006		

	15000	2	0.650855693	752.6808	Total PM1(	853.9377	VERA tons/	0.213165
	1000	327	66.14184154	53974.03				
	2000	1598	330.4660452	276997.3				
	3000	1141	239.910956	205692.2				
	4000	221	47.50620704	41755.87				
	5000	366	79.91300762	71619.47				
	6000	89	20.81866172	18872.68				
	7000	55	13.02456469	12033.65				
2023	8000	25	6.070636569	5749.11				
	9000	37	9.188890866	8900.624				
	10000	33	8.451274564	8440.502				
	11000	31	8.288282406	8460.34				
	12000	41	11.35764395	11994.94				
	13000	36	10.34654506	11260.17	Total VMT	739922.2		
	14000	10	3.050145409	3418.65	Total Wells	4012		
	15000	2	0.650855693	752.6808	Total PM1(	855.1856	VERA tons/	0.213157
	1000	327	66.14184154	53974.03				
	2000	1599	330.672845	277170.7				
	3000	1142	240.1212198	205872.5				
	4000	221	47.50620704	41755.87				
	5000	368	80.34969072	72010.83				
	6000	91	21.28649682	19296.79				
	7000	55	13.02456469	12033.65				
2024	8000	25	6.070636569	5749.11				
	9000	37	9.188890866	8900.624				
	10000	33	8.451274564	8440.502				
	11000	31	8.288282406	8460.34				
	12000	41	11.35764395	11994.94				
	13000	36	10.34654506	11260.17	Total VMT	741091.3		
	14000	10	3.050145409	3418.65	Total Wells	4018		
	15000	2	0.650855693	752.6808	Total PM1(	856.5071	VERA tons/	0.213168
	1000	328	66.34411017	54139.09				
	2000	1601	331.0864446	277517.3				
	3000	1144	240.5417473	206233				
	4000	221	47.50620704	41755.87				
	5000	368	80.34969072	72010.83				
	6000	91	21.28649682	19296.79				
	7000	56	13.26137496	12252.44				
2025	8000	25	6.070636569	5749.11				
	9000	37	9.188890866	8900.624				
	10000	33	8.451274564	8440.502				
	11000	31	8.288282406	8460.34				
	12000	41	11.35764395	11994.94				
	13000	36	10.34654506	11260.17	Total VMT	742182.4		
	14000	10	3.050145409	3418.65	Total Wells	4024		
	15000	2	0.650855693	752.6808	Total PM1(	857.7803	VERA tons/	0.213166
	1000	328	66.34411017	54139.09				
	2000	1603	331.5000441	277864				
	3000	1146	240.9622749	206593.5				
	4000	222	47.72116725	41944.81				
	5000	368	80.34969072	72010.83				
	6000	91	21.28649682	19296.79				
	7000	56	13.26137496	12252.44				
2026	8000	25	6.070636569	5749.11				
	9000	37	9.188890866	8900.624				
	10000	33	8.451274564	8440.502				
	11000	31	8.288282406	8460.34				
	12000	41	11.35764395	11994.94				
	13000	37	10.63394909	11572.95	Total VMT	743391.3		
	14000	10	3.050145409	3418.65	Total Wells	4030		
	15000	2	0.650855693	752.6808	Total PM1(	859.1168	VERA tons/	0.21318
	1000	329	66.5463788	54304.15				
	2000	1604	331.7068439	278037.4				
	3000	1148	241.3828024	206954.1				
	4000	222	47.72116725	41944.81				
	5000	369	80.56803227	72206.51				
	6000	91	21.28649682	19296.79				
	7000	56	13.26137496	12252.44				
2027	8000	25	6.070636569	5749.11				
	9000	38	9.437239268	9141.181				
	10000	33	8.451274564	8440.502				
	11000	31	8.288282406	8460.34				
	12000	41	11.35764395	11994.94				
	13000	37	10.63394909	11572.95	Total VMT	744526.5		
	14000	10	3.050145409	3418.65	Total Wells	4036		
	15000	2	0.650855693	752.6808	Total PM1(	860.4131	VERA tons/	0.213185
	1000	329	66.5463788	54304.15				
	2000	1608	332.534043	278730.7				
	3000	1150	241.8033299	207314.6				
	4000	222	47.72116725	41944.81				
	5000	369	80.56803227	72206.51				
	6000	91	21.28649682	19296.79				
	7000	56	13.26137496	12252.44				
2028	8000	25	6.070636569	5749.11				

	9000	38	9.437239268	9141.181				
	10000	33	8.451274564	8440.502				
	11000	31	8.288282406	8460.34				
	12000	41	11.35764395	11994.94				
	13000	37	10.63394909	11572.95	Total VMT	745580.4		
	14000	10	3.050145409	3418.65	Total Wells	4042		
	15000	2	0.650855693	752.6808	Total PM10	861.6608	VERA tons/	0.213177
	1000	330	66.74864743	54469.21				
	2000	1610	332.9476426	279077.4				
	3000	1152	242.2238575	207675.2				
	4000	222	47.72116725	41944.81				
	5000	370	80.78637382	72402.19				
	6000	91	21.28649682	19296.79				
	7000	56	13.26137496	12252.44				
2029	8000	25	6.070636569	5749.11				
	9000	38	9.437239268	9141.181				
	10000	33	8.451274564	8440.502				
	11000	31	8.288282406	8460.34				
	12000	41	11.35764395	11994.94				
	13000	37	10.63394909	11572.95	Total VMT	746648.4		
	14000	10	3.050145409	3418.65	Total Wells	4048		
	15000	2	0.650855693	752.6808	Total PM10	862.9156	VERA tons/	0.213171
	1000	330	66.74864743	54469.21				
	2000	1613	333.5680419	279597.4				
	3000	1153	242.4341212	207855.5				
	4000	223	47.93612746	42133.75				
	5000	371	81.00471537	72597.87				
	6000	91	21.28649682	19296.79				
	7000	56	13.26137496	12252.44				
2030	8000	25	6.070636569	5749.11				
	9000	38	9.437239268	9141.181				
	10000	33	8.451274564	8440.502				
	11000	31	8.288282406	8460.34				
	12000	41	11.35764395	11994.94				
	13000	37	10.63394909	11572.95	Total VMT	747733.3		
	14000	10	3.050145409	3418.65	Total Wells	4054		
	15000	2	0.650855693	752.6808	Total PM10	864.1796	VERA tons/	0.213167
	1000	330	66.74864743	54469.21				

	2000	1616	334.1884412	280117.4				
	3000	1155	242.8546488	208216				
	4000	223	47.93612746	42133.75				
	5000	371	81.00471537	72597.87				
	6000	91	21.28649682	19296.79				
	7000	56	13.26137496	12252.44				
2031	8000	25	6.070636569	5749.11				
	9000	38	9.437239268	9141.181				
	10000	33	8.451274564	8440.502				
	11000	32	8.555646355	8733.254				
	12000	41	11.35764395	11994.94				
	13000	37	10.63394909	11572.95	Total VMT	748886.8		
	14000	10	3.050145409	3418.65	Total Wells	4060		
	15000	2	0.650855693	752.6808	Total PM10	865.4878	VERA tons/	0.213174
	1000	332	67.15318469	54799.32				
	2000	1617	334.395241	280290.8				
	3000	1157	243.2751763	208576.6				
	4000	224	48.15108767	42322.69				
	5000	371	81.00471537	72597.87				
	6000	91	21.28649682	19296.79				
	7000	56	13.26137496	12252.44				
2032	8000	25	6.070636569	5749.11				
	9000	38	9.437239268	9141.181				
	10000	33	8.451274564	8440.502				
	11000	32	8.555646355	8733.254				
	12000	41	11.35764395	11994.94				
	13000	37	10.63394909	11572.95	Total VMT	749939.7		
	14000	10	3.050145409	3418.65	Total Wells	4066		
	15000	2	0.650855693	752.6808	Total PM10	866.7347	VERA tons/	0.213166
	1000	332	67.15318469	54799.32				
	2000	1617	334.395241	280290.8				
	3000	1159	243.6957038	208937.1				
	4000	224	48.15108767	42322.69				
	5000	372	81.22305692	72793.56				
	6000	91	21.28649682	19296.79				
	7000	56	13.26137496	12252.44				
2033	8000	26	6.313462032	5979.074				
	9000	38	9.437239268	9141.181				
	10000	33	8.451274564	8440.502				
	11000	32	8.555646355	8733.254				
	12000	42	11.63465966	12287.49				
	13000	37	10.63394909	11572.95	Total VMT	751018.5		
	14000	10	3.050145409	3418.65	Total Wells	4071		
	15000	2	0.650855693	752.6808	Total PM10	867.8934	VERA tons/	0.213189
	1000	333	67.35545332	54964.38				
	2000	1620	335.0156403	280810.8				
	3000	1161	244.1162313	209297.6				
	4000	224	48.15108767	42322.69				
	5000	372	81.22305692	72793.56				
	6000	91	21.28649682	19296.79				
	7000	56	13.26137496	12252.44				
2034	8000	26	6.313462032	5979.074				
	9000	38	9.437239268	9141.181				
	10000	33	8.451274564	8440.502				
	11000	32	8.555646355	8733.254				
	12000	42	11.63465966	12287.49				
	13000	37	10.63394909	11572.95	Total VMT	752064.1		
	14000	10	3.050145409	3418.65	Total Wells	4077		
	15000	2	0.650855693	752.6808	Total PM10	869.1366	VERA tons/	0.21318
	1000	333	67.35545332	54964.38				
	2000	1623	335.6360397	281330.8				
	3000	1163	244.5367589	209658.2				
	4000	224	48.15108767	42322.69				
	5000	373	81.44139847	72989.24				
	6000	91	21.28649682	19296.79				
	7000	56	13.26137496	12252.44				
2035	8000	26	6.313462032	5979.074				
	9000	38	9.437239268	9141.181				
	10000	33	8.451274564	8440.502				
	11000	32	8.555646355	8733.254				
	12000	42	11.63465966	12287.49				
	13000	37	10.63394909	11572.95	Total VMT	753140.3		
	14000	10	3.050145409	3418.65	Total Wells	4083		
	15000	2	0.650855693	752.6808	Total PM10	870.3958	VERA tons/	0.213176

UID	PRJNAME	AIRBASIN	COUNTY	ACTIVITY	SITE	RPTPHASE	TPT	OFSVMT	ONSVMT	UPRVMT	OLB (lbs/well m	(tons/well maintained)
MTN_4AA0GZF5O	KCOGW	SJV	Kern	Operational	001000	Well Maintenance	146	426.32	1.5622	14.0598	32.58874188	0.01629
MTN_4AA0GZF5P	KCOGW	SJV	Kern	Operational	002000	Well Maintenance	146	426.32	1.5622	14.0598	32.58874188	0.01629
MTN_4AA0GZF63	KCOGW	SJV	Kern	Operational	003000	Well Maintenance	146	426.32	1.5622	14.0598	32.58874188	0.01629
MTN_4AA0GZF64	KCOGW	SJV	Kern	Operational	004000	Well Maintenance	158	461.36	1.6906	15.2154	33.5805315	0.01679
MTN_4AA0GZF6J	KCOGW	SJV	Kern	Operational	005000	Well Maintenance	158	461.36	1.6906	15.2154	33.5805315	0.01679
MTN_4AA0GZF6K	KCOGW	SJV	Kern	Operational	006000	Well Maintenance	158	461.36	1.6906	15.2154	33.5805315	0.01679
MTN_4AA0GZF6L	KCOGW	SJV	Kern	Operational	007000	Well Maintenance	158	461.36	1.6906	15.2154	33.5805315	0.01679
MTN_4AA0GZF6Y	KCOGW	SJV	Kern	Operational	008000	Well Maintenance	158	461.36	1.6906	15.2154	33.5805315	0.01679
MTN_4AA0GZF6Z	KCOGW	SJV	Kern	Operational	009000	Well Maintenance	158	461.36	1.6906	15.2154	33.5805315	0.01679
MTN_4AA0GZF7E	KCOGW	SJV	Kern	Operational	010000	Well Maintenance	170	496.4	1.819	16.371	34.57232113	0.01729
MTN_4AA0GZF7F	KCOGW	SJV	Kern	Operational	011000	Well Maintenance	170	496.4	1.819	16.371	34.57232113	0.01729
MTN_4AA0GZF7G	KCOGW	SJV	Kern	Operational	012000	Well Maintenance	170	496.4	1.819	16.371	34.57232113	0.01729
MTN_4AA0GZF7U	KCOGW	SJV	Kern	Operational	013000	Well Maintenance	170	496.4	1.819	16.371	34.57232113	0.01729
MTN_4AA0GZF7V	KCOGW	SJV	Kern	Operational	014000	Well Maintenance	170	496.4	1.819	16.371	34.57232113	0.01729
MTN_4AA0GZF89	KCOGW	SJV	Kern	Operational	015000	Well Maintenance	170	496.4	1.819	16.371	34.57232113	0.01729

	Well Dept	Wells Mai	UPRPM1(	VMT			UID
	1000	3181	51.8324	48590.67			2012
	2000	11238.5	183.124	18341.01			2015
	3000	3456	56.3133	8386.671			2016
	4000	1304.5	21.9029	5454.721			2017
	5000	596.5	10.0154	5431 898			2018
	6000	358.5	6.01931	5819 891			2019
	7000	357	5.99412	2677.91			2020
2012	8000	382.5	6.42228	2792 026			2021
	9000	176	2.95509	1270.486			2022
	10000	183.5	3.17201	1596.173			2023
	11000	83.5	1.44339	982.26			2024
	12000	97.5	1.6854	442 017			2025
	13000	60	1.03717	114 597	Total VMT	350821	2026
	14000	27	0.46673	55432.21	Total Wells	21509	2027
	15000	7	0.121	193488.8	Total PM1(	352.5048	2028
	1000	3386	55.1727	50826.18			2029
	2000	11819	192.583	19079.15			2030
	3000	3615	58.9042	8885.794			2031
	4000	1357	22.7844	5751.421			2032
	5000	632	10.6114	5644 913			2033
	6000	378	6.34672	6116 591			2034
	7000	371	6.22919	2830 064			2035
2015	8000	402	6.74969	2936 572			
	9000	186	3.12299	1384.601			
	10000	193	3.33623	1833 552			
	11000	91	1.57304	1080.486			
	12000	112	1.93605	507 501			
	13000	66	1.14089	130 968	Total VMT	368371	
	14000	31	0.53587	58722.78	Total Wells	22647	
	15000	8	0.13829	202640.2	Total PM1(	371.1649	
	1000	3587	58.4479	52949.21			
	2000	12378	201.692	19782.14			
	3000	3766	61.3646	9363 827			
	4000	1407	23.6239	6025 298			
	5000	666	11.1823	5842.714			
	6000	396	6.64895	6390.468			
	7000	384	6.44746	2982 218			
2016	8000	420	7.05191	3058 295			
	9000	196	3.29089	1460.678			
	10000	201	3.47452	2030 004			
	11000	96	1.65947	1178.712			
	12000	124	2.14348	523 872			
	13000	72	1.2446	130 968	Total VMT	385278	
	14000	32	0.55316	61980.61	Total Wells	23733	
	15000	8	0.13829	211578.8	Total PM1(	388.9632	
	1000	3786	61.6905	55016			
	2000	12924	210.588	20471.07			
	3000	3913	63.7599	9827.8			
	4000	1456	24.4466	6283.96			
	5000	699	11.7364	6010 083			
	6000	413	6.93438	6603.484			
	7000	395	6.63215	3103 942			
	8000	434	7.28698	3180 019			
2017	9000	204	3.42521	1582.402			
	10000	209	3.61281	2242 827			
	11000	104	1.79776	1244.196			
	12000	137	2.3682	556.614			
	13000	76	1.31375	130 968	Total VMT	401813	
	14000	34	0.58773	65205.69	Total Wells	24792	
	15000	8	0.13829	220353.7	Total PM1(	406.3191	
	1000	3983	64.9005	57026.55			
	2000	13460	219.322	21117.82			
	3000	4056	66.09	10277.71			
	4000	1502	25.219	6527.407			
	5000	731	12.2737	6192.668			
	6000	429	7.20302	6831.715			
	7000	407	6.83364	3225.665			
2018	8000	449	7.53883	3286 526			
	9000	212	3.55954	1658.479			
	10000	216	3.73381	2422 908			
	11000	109	1.88419	1326 051			
	12000	148	2.55835	605.727			
	13000	81	1.40018	147 339	Total VMT	418026	

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	14000	37	0.63959	68414.41	Total Wells	25829
	15000	9	0.15558	228964.8	Total PM1(	423.3121
	1000	4179	68.0942	58994.92		
	2000	13986	227.893	21736.45		
	3000	4196	68.3712	10727.63		
	4000	1546	25.9578	6786 068		
	5000	763	12.811	6360 037		
	6000	446	7.48846	7044.73		
	7000	418	7.01833	3347 388		
2019	8000	463	7.77389	3393 034		
	9000	220	3.69386	1719.34		
	10000	223	3.85481	2586.618		
	11000	113	1.95334	1375.164		
	12000	158	2.73121	622 098		
	13000	84	1.45204	147 339	Total VMT	433876
	14000	38	0.65687	71590.38	Total Wells	26842
	15000	9	0.15558	237445	Total PM1(	439.9055
	1000	4373	71.2553	60921.11		
	2000	14504	236.334	22355.08		
	3000	4333	70.6035	11163.48		
	4000	1590	26.6965	7014 299		
	5000	794	13.3315	6527.407		
	6000	461	7.74031	7242.53		
	7000	429	7.20302	3438.68		
2020	8000	476	7.99217	3469.111		
	9000	226	3.7946	1795.417		
	10000	228	3.94124	2701 215		
	11000	118	2.03977	1457 019		
	12000	165	2.85222	654.84		
	13000	89	1.53847	147 339	Total VMT	449366
	14000	40	0.69145	74717.24	Total Wells	27835
	15000	9	0.15558	245761.5	Total PM1(	456.1692
	1000	4564	74.3675	62791.07		
	2000	15012	244.611	22931.53		
	3000	4466	72.7707	11571.22		
	4000	1631	27.3849	7257.746		
	5000	823	13.8184	6679 561		
	6000	477	8.00896	7409.9		
	7000	439	7.37093	3545.188		
2021	8000	487	8.17686	3560.404		
	9000	233	3.91213	1856 279		
	10000	234	4.04496	2848 554		
	11000	122	2.10891	1506.132		
	12000	174	3.00779	671 211		
	13000	92	1.59033	147 339	Total VMT	464600
	14000	41	0.70873	77860.48	Total Wells	28804
	15000	9	0.15558	253963.3	Total PM1(	472.0378
	1000	4756	77.496	64618.84		
	2000	15513	252.775	23493.93		
	3000	4596	74.8889	11993.01		
	4000	1671	28.0565	7501.192		
	5000	853	14.3221	6816.499		
	6000	493	8.2776	7592.485		
	7000	448	7.52204	3636.481		
2022	8000	499	8.37834	3651.696		
	9000	239	4.01287	1901 925		
	10000	240	4.14868	2979 522		
	11000	125	2.16077	1571.616		
	12000	182	3.14608	687 582		
	13000	96	1.65947	147 339	Total VMT	479581
	14000	42	0.72602	80954.6	Total Wells	29762
	15000	9	0.15558	262034.2	Total PM1(	487.7256
	1000	4945	80.5757	66418.5		
	2000	16006	260.808	24056.32		
	3000	4724	76.9746	12400.74		
	4000	1711	28.7281	7714 208		
	5000	882	14.809	6968.653		
	6000	507	8.51266	7729.423		
	7000	458	7.68994	3697 342		
2023	8000	508	8.52946	3712 558		
	9000	243	4.08003	1978 002		
	10000	244	4.21782	3094.119		
	11000	130	2.2472	1604 358		

	12000	189	3.26708	720 324			
	13000	98	1.69404	147 339	Total VMT	494281	
	14000	44	0.76059	84032.34	Total Wells	30698	
	15000	9	0.15558	270006.9	Total PM10	503.0495	
	1000	5133	83.639	68204.09			
	2000	16493	268.743	24604.65			
	3000	4851	79.044	12808.48			
	4000	1750	29.383	7942.439			
	5000	911	15.2959	7105 592			
	6000	522	8.76452	7866 362			
	7000	467	7.84105	3773.419			
2024	8000	517	8.68057	3788.635			
	9000	248	4.16399	2023.648			
	10000	249	4.30425	3192 345			
	11000	133	2.29906	1653.471			
	12000	195	3.3708	736.695			
	13000	101	1.7459	147 339	Total VMT	508822	
	14000	45	0.77788	87093.72	Total Wells	31624	
	15000	9	0.15558	277881.4	Total PM10	518.2086	
	1000	5320	86.6861	69933.45			
	2000	16974	276.581	25096.74			
	3000	4974	81.0482	13202.15			
	4000	1785	29.9706	8155.454			
	5000	939	15.7661	7242.53			
	6000	536	8.99958	8003.3			
	7000	476	7.99217	3864.712			
2025	8000	526	8.83168	3864.712			
	9000	254	4.26473	2069 294			
	10000	254	4.39068	3290 571			
	11000	136	2.35092	1669 842			
	12000	201	3.47452	753 066			
	13000	102	1.76319	147 339	Total VMT	523073	
	14000	46	0.79516	90138.73	Total Wells	32532	
	15000	9	0.15558	285641.2	Total PM10	533.0698	
	1000	5506	89.7168	71634.68			
	2000	17448	284.304	25616.96			
	3000	5095	83.0198	13581.77			
	4000	1822	30.5919	8368.47			
	5000	966	16.2194	7379.469			
	6000	550	9.23465	8140 239			
	7000	485	8.14328	3940.789			
2026	8000	535	8.98279	3925 573			
	9000	259	4.34868	2084.51			
	10000	258	4.45983	3372.426			
	11000	137	2.3682	1718 955			
	12000	206	3.56095	753 066			
	13000	105	1.81505	147 339	Total VMT	537167	
	14000	46	0.79516	93167.36	Total Wells	33427	
	15000	9	0.15558	293335.6	Total PM10	547.7162	
	1000	5691	92.7313	73321.86			
	2000	17918	291.963	26109.05			
	3000	5215	84.9751	13975.44			
	4000	1857	31.1795	8581.486			
	5000	994	16.6895	7485 977			
	6000	564	9.46971	8261 962			
	7000	492	8.26081	3986.435			
2027	8000	543	9.11711	3971 219			
	9000	262	4.39905	2130.156			
	10000	261	4.51169	3470.652			
	11000	140	2.42006	1751.697			
	12000	212	3.66467	785 808			
	13000	107	1.84962	163.71	Total VMT	551140	
	14000	48	0.82974	96196	Total Wells	34314	
	15000	10	0.17286	300948.1	Total PM10	562.2333	
	1000	5876	95.7457	74966.85			
	2000	18383	299.539	26601.14			
	3000	5332	86.8816	14355.06			
	4000	1892	31.7672	8794 501			
	5000	1021	17.1429	7607.7			
	6000	578	9.70477	8368.47			
	7000	500	8.39513	4062 512			
2028	8000	550	9.23465	4016 866			
	9000	267	4.483	2175 802			

	10000	264	4.56355	3519.765			
	11000	143	2.47192	1768 068			
	12000	215	3.71652	802.179			
	13000	108	1.86691	163.71	Total VMT	564857	
	14000	49	0.84702	99191.89	Total Wells	35188	
	15000	10	0.17286	308462.4	Total PM10	576.5331	
	1000	6059	98.7276	76597.79			
	2000	18842	307.019	27079.17			
	3000	5448	88.7717	14720.61			
	4000	1926	32.3381	8992 301			
	5000	1047	17.5794	7714 208			
	6000	591	9.92305	8474 978			
	7000	507	8.51266	4123 373			
2029	8000	557	9.35218	4077.727			
	9000	271	4.55016	2206 233			
	10000	268	4.63269	3601.62			
	11000	145	2.50649	1800.81			
	12000	220	3.80296	802.179			
	13000	110	1.90148	163.71	Total VMT	578486	
	14000	49	0.84702	102204.2	Total Wells	36050	
	15000	10	0.17286	315927.6	Total PM10	590.6369	
	1000	6243	101.726	78214.67			
	2000	19298	314.449	27529.09			
	3000	5563	90.6456	15100.23			
	4000	1958	32.8753	9205 317			
	5000	1074	18.0327	7851.146			
	6000	605	10.1581	8566.27			
	7000	516	8.66378	4184 235			
2030	8000	563	9.45292	4123 373			
	9000	275	4.61732	2236.664			
	10000	271	4.68455	3667.104			
	11000	147	2.54107	1833 552			
	12000	224	3.8721	818.55			
	13000	112	1.93605	180 081	Total VMT	592021	
	14000	50	0.86431	105183.7	Total Wells	36910	
	15000	11	0.19015	323327.3	Total PM10	604.7086	
	1000	6425	104.691	79803.42			
	2000	19750	321.814	27979			
	3000	5676	92.4868	15479.84			
	4000	1990	33.4126	9403.117			
	5000	1101	18.4861	7957.654			
	6000	618	10.3764	8642 347			
	7000	523	8.78131	4229 881			
2031	8000	568	9.53687	4169.02			
	9000	278	4.66769	2267 095			
	10000	274	4.73641	3716 217			
	11000	149	2.57564	1866 294			
	12000	227	3.92396	818.55			
	13000	114	1.97062	180 081	Total VMT	605337	
	14000	50	0.86431	108163.2	Total Wells	37754	
	15000	11	0.19015	330661.5	Total PM10	618.5141	
	1000	6607	107.657	81364.06			
	2000	20198	329.114	28428.92			
	3000	5787	94.2955	15845.39			
	4000	2022	33.9499	9585.702			
	5000	1127	18.9226	8064.162			
	6000	630	10.5779	8748 855			
	7000	530	8.89884	4260 312			
2032	8000	575	9.6544	4214.666			
	9000	280	4.70127	2297 525			
	10000	277	4.78827	3765.33			
	11000	151	2.61021	1882.665			
	12000	230	3.97582	834 921			

	13000	115	1.98791	180 081	Total VMT	618545
	14000	51	0.88159	111126.3	Total Wells	38591
	15000	11	0.19015	337946.6	Total PM10	632.205
	1000	6788	110.606	82924.7		
	2000	20643	336.365	28864.77		
	3000	5898	96.1042	16182.83		
	4000	2053	34.4704	9783 502		
	5000	1151	19.3256	8170.67		
	6000	643	10.7961	8824 932		
	7000	537	9.01637	4321.174		
2033	8000	580	9.73835	4245 097		
	9000	284	4.76844	2312.741		
	10000	279	4.82284	3814.443		
	11000	152	2.6275	1899 036		
	12000	233	4.02768	851 292		
	13000	116	2.00519	180 081	Total VMT	631631
	14000	52	0.89888	114089.5	Total Wells	39420
	15000	11	0.19015	345166.2	Total PM10	645.7626
	1000	6969	113.555	84457.22		
	2000	21084	343.551	29286.56		
	3000	6007	97.8803	16548.38		
	4000	2083	34.9741	9996 518		
	5000	1177	19.7621	8261 962		
	6000	657	11.0312	8901 009		
	7000	543	9.11711	4366.82		
2034	8000	585	9.82231	4290.743		
	9000	287	4.81881	2343.172		
	10000	282	4.8747	3863 556		
	11000	154	2.66207	1915.407		
	12000	236	4.07953	851 292		
	13000	117	2.02248	180 081	Total VMT	644668
	14000	52	0.89888	117052.7	Total Wells	40244
	15000	11	0.19015	352353	Total PM10	659.2398
	1000	7150	116.505	85961.62		
	2000	21523	350.704	29708.36		
	3000	6114	99.6238	16899.88		
	4000	2113	35.4778	10179.1		
	5000	1202	20.1819	8353 255		
	6000	669	11.2327	8977 086		
	7000	549	9.21786	4397 251		
2035	8000	590	9.90626	4305 958		
	9000	289	4.85239	2358 387		
	10000	283	4.89198	3929.04		
	11000	155	2.67935	1931.778		
	12000	240	4.14868	851 292		
	13000	118	2.03977	180 081	Total VMT	178033
	14000	52	0.89888	0	Total Wells	41058
	15000	11	0.19015	0	Total PM10	672.55

RPTPHASE	UPRPM10LB (lbs/well)	Active wells	VMT/well	VMT	UPRPM10 (Lbs/Year)	UPRPM10 Tons		Increment	Wells Drill	VERA Co	VMT	Increment
Routine Operations	42.02673992	43028	27.85536	1198560.43	1808326.565	904.1632827						
Routine Operations	42.02673992	45301	27.85536	1261888.295	1903872.404	951.936202	47.7729	3966	0.01205	1261888	3.8E-05	
Routine Operations	42.02673992	47476	27.85536	1322453.948	1995250.758	997.625379	93.4621	3970	0.02354	1322454	7.1E-05	
Routine Operations	42.02673992	49596	27.85536	1381520.517	2084367.37	1042.183685	138.02	3976	0.03471	1381521	1E-04	
Routine Operations	42.02673992	51668	27.85536	1439223.917	2171427.303	1085.713652	181.55	3982	0.04559	1439224	0.00013	
Routine Operations	42.02673992	53694	27.85536	1495668.741	2256588.362	1128.294181	224.131	3988	0.0562	1495669	0.00015	
Routine Operations	42.02673992	55679	27.85536	1550951.256	2339995.788	1169.997894	265.835	3994	0.06656	1550951	0.00017	
Routine Operations	42.02673992	57625	27.85536	1605160.485	2421783.896	1210.891948	306.729	4000	0.07668	1605160	0.00019	
Routine Operations	42.02673992	59535	27.85536	1658378.781	2502076.934	1251.038467	346.875	4006	0.08659	1658379	0.00021	
Routine Operations	42.02673992	61413	27.85536	1710682.335	2580989.856	1290.494928	386.332	4012	0.09629	1710682	0.00023	
Routine Operations	42.02673992	63260	27.85536	1762141.651	2658629.035	1329.314518	425.151	4018	0.10581	1762142	0.00024	
Routine Operations	42.02673992	65080	27.85536	1812821.982	2735092.922	1367.546461	463.383	4024	0.11515	1812822	0.00026	
Routine Operations	42.02673992	66873	27.85536	1862783.731	2810472.648	1405.236324	501.073	4030	0.12434	1862784	0.00027	
Routine Operations	42.02673992	68643	27.85536	1912080.122	2884848.517	1442.424259	538.261	4036	0.13336	1912080	0.00028	
Routine Operations	42.02673992	70391	27.85536	1960763.143	2958298.966	1479.149483	574.986	4042	0.14225	1960763	0.00029	
Routine Operations	42.02673992	72118	27.85536	2008880.994	3030896.713	1515.448357	611.285	4048	0.15101	2008881	0.0003	
Routine Operations	42.02673992	73827	27.85536	2056478.311	3102709.106	1551.354553	647.191	4054	0.15964	2056478	0.00031	
Routine Operations	42.02673992	75519	27.85536	2103596.44	3173798.525	1586.899263	682.736	4060	0.16816	2103596	0.00032	
Routine Operations	42.02673992	77194	27.85536	2150273.683	3244222.757	1622.111379	717.948	4066	0.17657	2150274	0.00033	
Routine Operations	42.02673992	78854	27.85536	2196517.67	3313993.316	1656.996658	752.833	4071	0.18493	2196518	0.00034	
Routine Operations	42.02673992	80501	27.85536	2242391.015	3383204.669	1691.602335	787.439	4077	0.19314	2242391	0.00035	
Routine Operations	42.02673992	82136	27.85536	2287924.105	3451902.662	1725.951331	821.788	4083	0.20127	2287924	0.00036	

RPTPHASE	UPRPM10LB (lbs/year)	Active wells	VMT	UPRPM10 Tons						
Facility Inspection	1633294.73	43028	1903060	816.6473651						
Facility Inspection	1730232.805	45301	2016009	865.1164023	43.4159	3966	0.01095	2016009	2.2E-05	
Facility Inspection	1782133.619	47476	2076482	891.0668096	83.4792	3970	0.02103	2076482	4E-05	
Facility Inspection	1834034.434	49596	2136955	917.017217	121.444	3976	0.03054	2136955	5.7E-05	
Facility Inspection	1914392.01	51668	2230585	957.1960051	160.06	3982	0.0402	2230585	7.2E-05	
Facility Inspection	1966292.825	53694	2291058	983.1464124	195.298	3988	0.04897	2291058	8.5E-05	
Facility Inspection	2018193.64	55679	2351532	1009.09682	229.276	3994	0.05741	2351532	9.8E-05	
Facility Inspection	2040712.269	57625	2377769	1020.356135	258.464	4000	0.06462	2377769	0.00011	
Facility Inspection	2070094.454	59535	2412005	1035.047227	286.987	4006	0.07164	2412005	0.00012	
Facility Inspection	2121995.269	61413	2472478	1060.997634	317.628	4012	0.07917	2472478	0.00013	
Facility Inspection	2144513.899	63260	2498716	1072.256949	342.937	4018	0.08535	2498716	0.00014	
Facility Inspection	2196414.713	65080	2559189	1098.207357	372.12	4024	0.09248	2559189	0.00015	
Facility Inspection	2218933.343	66873	2585427	1109.466672	395.609	4030	0.09817	2585427	0.00015	
Facility Inspection	2328673.104	68643	2713292	1164.336552	434.489	4036	0.10765	2713292	0.00016	
Facility Inspection	2380573.919	70391	2773765	1190.286959	462.697	4042	0.11447	2773765	0.00017	
Facility Inspection	2403092.549	72118	2800003	1201.546274	484.667	4048	0.11973	2800003	0.00017	
Facility Inspection	2454993.363	73827	2860476	1227.496682	512.085	4054	0.12632	2860476	0.00018	
Facility Inspection	2506894.178	75519	2920949	1253.447089	539.274	4060	0.13283	2920949	0.00018	
Facility Inspection	2529412.808	77194	2947187	1264.706404	559.76	4066	0.13767	2947187	0.00019	
Facility Inspection	2581313.623	78854	3007660	1290.656811	586.392	4071	0.14404	3007660	0.00019	
Facility Inspection	2603832.252	80501	3033897.984	1301.916126	606.041	4077	0.14865	3033898	0.0002	
Facility Inspection	2655733.067	82136	3094371.072	1327.866534	632.245	4083	0.15485	3094371	0.0002	

RPTPHASE									
Well Maintenance	21509	350821.3815	352.5048261						
Well Maintenance	22647	368370.8046	371.1648514	18.6508	3966	0.0047	368371	5.1E-05	
Well Maintenance	23733	385277.8104	388.9631885	36.4494	3970	0.00918	385278	9.5E-05	
Well Maintenance	24792	401812.713	406.319098	53.8055	3976	0.01353	401813	0.00013	
Well Maintenance	25829	418025.781	423.3120684	70.8006	3982	0.01778	418026	0.00017	
Well Maintenance	26842	433876.1832	439.9055437	87.4009	3988	0.02192	433876	0.0002	
Well Maintenance	27835	449366.2308	456.1691643	103.673	3994	0.02596	449366	0.00023	
Well Maintenance	28804	464599.9278	472.0377529	119.55	4000	0.02989	464600	0.00026	
Well Maintenance	29762	479580.9336	487.7256158	135.246	4006	0.03376	479581	0.00028	
Well Maintenance	30698	494281.1286	503.0495476	150.581	4012	0.03753	494281	0.0003	
Well Maintenance	31624	508822.236	518.2085522	165.75	4018	0.04125	508822	0.00033	
Well Maintenance	32532	523073.0952	533.069795	180.623	4024	0.04489	523073	0.00035	
Well Maintenance	33427	537167.178	547.7162356	195.282	4030	0.04846	537167	0.00036	
Well Maintenance	34314	551139.5376	562.2333131	209.809	4036	0.05198	551140	0.00038	
Well Maintenance	35188	564856.8948	576.5331089	224.122	4042	0.05545	564857	0.0004	
Well Maintenance	36050	578486.4264	590.6368763	238.237	4048	0.05885	578486	0.00041	
Well Maintenance	36910	592021.1988	604.7085509	252.32	4054	0.06224	592021	0.00043	
Well Maintenance	37754	605337.1776	618.5140607	266.138	4060	0.06555	605337	0.00044	
Well Maintenance	38591	618545.493	632.2050141	279.841	4066	0.06882	618545	0.00045	
Well Maintenance	39420	631630.9296	645.762637	293.411	4071	0.07207	631631	0.00046	
Well Maintenance	40244	644668.4088	659.23978	306.899	4077	0.07528	644668	0.00048	
Well Maintenance	41058	178033.0842	672.550012	320.222	4083	0.07843	178033	0.0018	

al Tons/VMT

If Paved

	g/VMT	lbs/VMT	VMT	lbs	tons	Wells Drill	tons/well	VERA Reduction
2015	3 653607	0.01004	1261888	12666.1	6 33303	3966	0.0016	0.01045
2016	3 653607	0.01004	1322454	13274	6.63699	3970	0.00167	0.02187
2017	3 653607	0.01004	1381521	13866.8	6 93342	3976	0.00174	0.03297
2018	3 653607	0.01004	1439224	14446	7 22302	3982	0.00181	0.04378
2019	3 653607	0.01004	1495669	15012.6	7.5063	3988	0.00188	0.05432
2020	3 653607	0.01004	1550951	15567.5	7.78375	3994	0.00195	0.06461
2021	3 653607	0.01004	1605160	16111.6	8.0558	4000	0.00201	0.07467
2022	3 653607	0.01004	1658379	16645.8	8 32289	4006	0.00208	0.08451
2023	3 653607	0.01004	1710682	17170.8	8 58539	4012	0.00214	0.09415
2024	3 653607	0.01004	1762142	17687.3	8 84364	4018	0.0022	0.10361
2025	3 653607	0.01004	1812822	18196	9 09799	4024	0.00226	0.11289
2026	3 653607	0.01004	1862784	18697.5	9 34874	4030	0.00232	0.12202
2027	3 653607	0.01004	1912080	19192.3	9 59614	4036	0.00238	0.13099
2028	3 653607	0.01004	1960763	19680.9	9 84046	4042	0.00243	0.13982
2029	3 653607	0.01004	2008881	20163.9	10.082	4048	0.00249	0.14852
2030	3 653607	0.01004	2056478	20641.7	10.3208	4054	0.00255	0.1571
2031	3 653607	0.01004	2103596	21114.6	10.5573	4060	0.0026	0.16556
2032	3 653607	0.01004	2150274	21583.1	10.7916	4066	0.00265	0.17392
2033	3 653607	0.01004	2196518	22047.3	11.0236	4071	0.00271	0.18222
2034	3 653607	0.01004	2242391	22507.7	11.2539	4077	0.00276	0.19038
2035	3 653607	0.01004	2287924	22964.8	11.4824	4083	0.00281	0.19846

Year	VERA Contribution (tons/well drilled) for Operational Unpaved Road Emissions
2015	0.01636
2016	0.03424
2017	0.05156
2018	0.06851
2019	0.08491
2020	0.10089
2021	0.1163
2022	0.13139
2023	0.14628
2024	0.16067
2025	0.17498
2026	0.18879
2027	0.20314
2028	0.21677
2029	0.22991
2030	0.24316
2031	0.25621
2032	0.26879
2033	0.28158
2034	0.29385
2035	0.30688

	g/VMT	lbs/VMT	VMT	lbs	tons	Wells Drill	tons/well		80% controlled (FIN Spreadsheet did not account for control)
2015	3 653607	0.01004	2016009	20235.5	10.1177	3966	0.00255	0.0084	0.00168
2016	3 653607	0.01004	2076482	20842.4	10.4212	3970	0.00262	0.0184	0.00368
2017	3 653607	0.01004	2136955	21449.4	10.7247	3976	0.0027	0.02785	0.00557
2018	3 653607	0.01004	2230585	22389.2	11.1946	3982	0.00281	0.03738	0.00748
2019	3 653607	0.01004	2291058	22996.2	11.4981	3988	0.00288	0.04609	0.00922
2020	3 653607	0.01004	2351532	23603.2	11.8016	3994	0.00295	0.05445	0.01089
2021	3 653607	0.01004	2377769	23866.6	11.9333	4000	0.00298	0.06163	0.01233
2022	3 653607	0.01004	2412005	24210.2	12.1051	4006	0.00302	0.06862	0.01372
2023	3 653607	0.01004	2472478	24817.2	12.4086	4012	0.00309	0.07608	0.01522
2024	3 653607	0.01004	2498716	25080.6	12.5403	4018	0.00312	0.08223	0.01645
2025	3 653607	0.01004	2559189	25687.6	12.8438	4024	0.00319	0.08928	0.01786
2026	3 653607	0.01004	2585427	25950.9	12.9755	4030	0.00322	0.09495	0.01899
2027	3 653607	0.01004	2713292	27234.3	13.6172	4036	0.00337	0.10428	0.02086
2028	3 653607	0.01004	2773765	27841.3	13.9207	4042	0.00344	0.11103	0.02221
2029	3 653607	0.01004	2800003	28104.7	14.0523	4048	0.00347	0.11626	0.02325
2030	3 653607	0.01004	2860476	28711.7	14.3558	4054	0.00354	0.12277	0.02455
2031	3 653607	0.01004	2920949	29318.7	14.6593	4060	0.00361	0.12922	0.02584
2032	3 653607	0.01004	2947187	29582	14.791	4066	0.00364	0.13403	0.02681
2033	3 653607	0.01004	3007660	30189	15.0945	4071	0.00371	0.14033	0.02807
2034	3 653607	0.01004	3033898	30452.4	15.2262	4077	0.00373	0.14491	0.02898
2035	3 653607	0.01004	3094371	31059.4	15.5297	4083	0.0038	0.15104	0.03021

	g/VMT	lbs/VMT	VMT	lbs	tons	Wells Drill	tons/well	
2015	3 653607	0.01004	368371	3697.48	1 84874	3966	0.00047	0.00424
2016	3 653607	0.01004	385278	3867.18	1 93359	3970	0.00049	0.00869
2017	3 653607	0.01004	401813	4033.15	2 01657	3976	0.00051	0.01303
2018	3 653607	0.01004	418026	4195.88	2 09794	3982	0.00053	0.01725
2019	3 653607	0.01004	433876	4354.98	2.17749	3988	0.00055	0.02137
2020	3 653607	0.01004	449366	4510.46	2 25523	3994	0.00056	0.02539
2021	3 653607	0.01004	464600	4663.37	2 33168	4000	0.00058	0.0293
2022	3 653607	0.01004	479581	4813.74	2.40687	4006	0.0006	0.03316
2023	3 653607	0.01004	494281	4961.29	2.48064	4012	0.00062	0.03691
2024	3 653607	0.01004	508822	5107.24	2 55362	4018	0.00064	0.04062
2025	3 653607	0.01004	523073	5250.28	2.62514	4024	0.00065	0.04423
2026	3 653607	0.01004	537167	5391.75	2.69588	4030	0.00067	0.04779
2027	3 653607	0.01004	551140	5532	2.766	4036	0.00069	0.0513
2028	3 653607	0.01004	564857	5669.68	2 83484	4042	0.0007	0.05475
2029	3 653607	0.01004	578486	5806.49	2 90324	4048	0.00072	0.05814
2030	3 653607	0.01004	592021	5942.34	2 97117	4054	0.00073	0.06151
2031	3 653607	0.01004	605337	6076	3.038	4060	0.00075	0.0648
2032	3 653607	0.01004	618545	6208.58	3.10429	4066	0.00076	0.06806
2033	3 653607	0.01004	631631	6339.92	3.16996	4071	0.00078	0.07129
2034	3 653607	0.01004	644668	6470.78	3 23539	4077	0.00079	0.07448
2035	3 653607	0.01004	178033	1786.99	0 89349	4083	0.00022	0.07821

Each year, Unpaved Road Construction Emissions Account for the Following PM (tons/well) Towards the VERA

2015	0.212282952
2016	0.212278279
2017	0.212271594
2018	0.212264376
2019	0.212258571
2020	0.212247598
2021	0.212247627
2022	0.212239021
2023	0.212231335
2024	0.21224187
2025	0.212240448
2026	0.212254587
2027	0.212258814
2028	0.212251116
2029	0.212245156
2030	0.212241468
2031	0.212248624
2032	0.212240765
2033	0.212263387
2034	0.212254647
2035	0.212249832

Year	VERA Contribution (tons/well drilled) for Operational Unpaved Road Emissions
2015	0.016364504
2016	0.034244971
2017	0.051564329
2018	0.068509054
2019	0.084906724
2020	0.100892129
2021	0.116299326
2022	0.131394943
2023	0.146283651
2024	0.160672821
2025	0.17498465
2026	0.188793255
2027	0.203142335
2028	0.216770903
2029	0.22990611
2030	0.243158526
2031	0.256207205
2032	0.268786679
2033	0.281579485
2034	0.293846458
2035	0.306876671

Year	VERA Reduction Associated with Paving Unpaved Roads	VERA Reduction Expected
2015	0.228647456	$1,594.59
2016	0.24652325	$1,719.25
2017	0.263835922	$1,839.99
2018	0.28077343	$1,958.11
2019	0.297165295	$2,072.43
2020	0.313139726	$2,183.84
2021	0.328546953	$2,291.29
2022	0.343633964	$2,396.50
2023	0.358514986	$2,500.28
2024	0.372914691	$2,600.71
2025	0.387225098	$2,700.51
2026	0.401047842	$2,796.91
2027	0.415401149	$2,897.01
2028	0.42902202	$2,992.00
2029	0.442151266	$3,083.56
2030	0.455399994	$3,175.96
2031	0.468455829	$3,267.01
2032	0.481027445	$3,354.69
2033	0.493842872	$3,444.06
2034	0.506101105	$3,529.55
2035	0.519126503	$3,620.39
	Average:	$2,667.55

APPENDIX H

Team Resumes

Ashley Dahlstrom

6312 Ocean Jasper Drive, Bakersfield, CA 93313
661-304-1438 ● ashleybdahlstrom@gmail.com

Professional Experience

2014-Present **HES Team Lead – Air Permitting,** ***Chevron North American Exploration and Production***

· Leading team of 2-4 engineers responsible for air permitting and compliance support for fields in the following Districts: San Joaquin Valley, Monterey Bay and San Luis Obispo

· Developing new employees through assignments, coaching and role modeling.

2013-2014

HES Specialist – Air Permitting, ***Chevron North American Exploration and Production***

· Led multi-phase project to reduce NOVs and variances.

· Developed new employees through assignments, coaching and role modeling.

· Led permit streamlining projects for SJV sources

· Efficiently prepared air quality permit applications using Microsoft tools and evaluated compliance with BACT, NSR, GHG, CEQA, Title V, Air Toxics, and SJVAPCD

2012-2013

Associate/Engineer, ***Insight Environmental Consultant***

· Efficiently prepared air quality permit applications using Microsoft tools and evaluated compliance with BACT, NSR, GHG, CEQA, Title V, Air Toxics, and SJVAPCD or Bay Area AQMD rules and regulations.

· Assisted clients with Title V compliance auditing.

· Successfully collaborated with Air District to dispute and clarify rule applicability.

· Assisted clients in negotiating NOV settlement.

· Prepared waste discharge reports (WDRs) in accordance with State Water Quality Control Board Requirements.

· Managed a waste discharge monitoring and reporting program, which included preparing program reports, corrective action plans, and salinity control plans.

· Recommended project budgets and efficiently worked within quoted budgets and project timelines.

2010-2012

Air Quality Engineer, ***San Joaquin Valley Air Pollution Control District***

· Worked with key stakeholders to permit wide range of emission sources using tools such as Microsoft Excel, Word, and Outlook. Projects evaluated for BACT, NSR, GHG, CEQA, Title V, Air Toxics, and compliance with SJVAPCD rules

· Worked collectively with co-workers to promote teambuilding as a member of the Healthy Air Living (HAL) committee.

· Recognized for excellence in Service, Teamwork, Attitude, and Respect with the District's 2011 S.T.A.R. of the Year Award

· Used excel to evaluate bio-solid and green waste composting technical data to aid in District rule development.

· Identified gap in District Rule. Collaborated with District Management to create internal guidance document.

Education

2005-2009 B.S. Civil Engineering, *University of California, Davis*

Highlights of Certifications and Professional Memberships

- Certified Air Permitting Professional
- Engineer in Training (E.I.T.)
- Air and Waste Management Association – Board Member
- Member of 2013 American Society of Civil Engineers (ASCE)

Dennis J. Champion, PE

Work History

California Resources Corporation	**Manager Air and GHG Programs**	**08/01/2014**	**Present**

Responsibilities: Manage Statewide air quality and GHG program coordination and integration. Maintain active review of current/proposed regulations, advocate at the local, State, and federal level concerning issues related to air quality and GHG regulations. Coordinate emission reduction credit use and tracking, fugitive emissions monitoring and reporting, and greenhouse gas data collection and reporting. Prepare and present Management review documentation.

Occidental of Elk Hills, Inc	**Senior Environmental Engineer**	**04/10/1988**	**08/01/13**

Responsibilities: Oversee air quality and greenhouse gas compliance programs and all affiliated work processes. Provide oversight of other staff including engineers (air quality and Facility) and technicians. Proactively develop and implement programs to collect, review, report and train to work processes utilizing spreadsheet, database, presentation, and visual basic applications. Strive to integrate systems into daily routines to minimize impacts to Operations.

Kern County Air Pollution Control District	**Air Pollution Engineer**	**04/01/1986**	**04/01/1988**

Responsibilities: Responsible for review of engineering data to verify compliance with applicable federal, State, and local air quality regulations. Developed several methodologies to streamline permitting activities and reduce time necessary to issue permits. Developed computer program to estimate emissions from gas-fired turbines and developed additional tools for evaluating pump and compressor operations. Developed permits for turbines, oil and gas operations, aggregate plants, air filtration systems, and other emitting activities.

Projects/Accomplishments

Date Completed	Project	Description
Ongoing	Implement GHG Program	Developed State and federal reporting program for GHG. Prepare and submit annual reports to corporate, the State, and the EPA. Active advocacy resulting in reduced data demands and ease of reporting. Continuing efforts to develop overall transparent programs.
08/15/2012	Cryogenic Gas Plant	Responsible for oversight of HES and permitting activities associated with construction of the project including air, water, waste, biology, and safety permitting issues. Directly involved with all regulatory agencies, oversight of support staff, and provided direct interface with Management.
06/01/2002	Elk Hills Power Project	Managed preparation of the Elk Hills Power AFC. All permitting documents; direct oversight of all subcontract support staff and personnel from Sempra and Oxy. Negotiated directly with regulatory agencies and associated legislative representatives.

Education

Degree	Major	School	Degree Date
Bachelor's Degree	Political Science	CA St University, Bakersfield	06/01/1979
Bachelor's Degree	Chemical Engineering	CA St Polytechnic University, Pomona	06/01/1985

Licenses, Certificates, and Memberships

Registered Professional Engineer (CH 4695)	**Start Date**:	06/30/1992	**Expiration:**	06/30/2016
American Institute of Chemical Engineers		04/01/1985		

References upon request

Peggy Shue

Profile:

Ms. Shue has 35 years of experience in various aspects of the oil and gas production industry. The majority of her work has involved environmental permitting and compliance with a focus on air quality issues.

Experience:

1997 to present - Aera Energy LLC
1980 to1997 - Mobil Exploration and Producing U.S., Inc

Led company-wide air quality permitting and compliance – 18 years:

- Provide technical support and mentoring for field-based environmental professionals
- Wrote and continue to manage corporate air quality programs
- Prepared or supervised preparation of numerous local and federal air permit applications including PSD permitting with EPA and Title V initial and renewed permits with SJVPACD, MBUAPCD, and VCAPCD.
- Directed company Greenhouse Gas reporting efforts beginning with voluntary reporting to CCAR in 2006 and continuing through current required reporting to EPA and California ARB
- Championed and assisted in implementation and maintenance of enterprise software for Title V compliance management, criteria pollutant reporting, and greenhouse gas emission reporting
- Directed company-wide Air Toxic Hot Spots compliance since 1991
- Participate through industry groups and corporate involvement in evaluating and providing comments on local and state air quality rulemaking
- Prepare parent companies with internal company air quality emissions and compliance reporting
- Provided air quality compliance/regulatory technical support for several company mergers and acquisitions/divestitures

Managed onsite environmental compliance at oil production facilities – 6 years:

- Obtained air permits and variances. Led compliance efforts. Prepared and maintained required compliance reports and documentation.
- Developed and implemented training for operations personnel on variance environmental topics including air permit conditions. Provided technical environmental issue information to non-technical partners
- Designed and implemented Threatened & Endangered Species program, revised SPCC plans and Hazardous Material Business Plans, coordinated cleanup of stream channels to meet requirements of abatement order.

Facilities and Process Engineering – 11 years

- Designed oil treating facilities for heavy oil projects including specifying and purchasing equipment. Acted as project manager for installation of various oilfield equipment and pipeline projects
- Provided engineering support for numerous air permitting applications
- Conducted engineering studies to optimize performance of existing facilities
- Negotiated and administered contracts purchasing gas for processing at gas plants in Oklahoma and Kansas and selling processed natural gas to natural gas suppliers
- Prepared economic analyses for ongoing operations and for potential new projects

Education & Certifications:

University of Colorado, Boulder: Bachelor of Science in Chemical Engineering
University of California Extension, Davis: Certificate in Air Quality Management
San Joaquin Valley APCD: Certified Air Permitting Professional

BOSTON, ROBERT

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SUMMARY

Environmental, Health and Safety Generalist with a passion for values-driven approach to culture building and EH&S leadership.

HIGHLIGHTS OF QUALIFICATIONS

Competencies

- Resource and results management – utilizes available resources to effectively and efficiently accomplish objectives.
- Strategic thinking/visioning and alignment – Proposes course of action that furthers the objectives, priorities and vision of organization.
- Client Focus – Provides support to operations/technical teams for execution of long-range plans.
- Creativity and Innovation – Generates viable regulatory approaches and solutions
- Impact and Influence – Gains others' support
- Proactivity & Self-Motivation – sets goals, standards and takes initiative
- Project Management – Planning, implementing, monitoring, and completing projects
- Teamwork – Works collaboratively with others to achieve organizational goals

Pertinent Certifications

- Certified Air Permitting Professional

EXPERIENCE

2014-Present EH&S Manager, *LINN Energy*

- Regulatory and compliance management for Company assets in California.
- Transition/integration to LINN's values-based business model; lead corporate initiatives.

2001-2013 EH&S Manager, *Berry Petroleum Company*

- Regulatory and compliance management for Company assets in California, Utah, Colorado, Texas, and Louisiana
- Built a team of EH&S professionals and EH&S management systems/programs, which was led at all levels within the organization and integrated with business practices.
- Led the regulatory effort that allowed for execution of Berry's North Midway Sunset Diatomite Development project including NEPA/CEQA Mitigated Negative Declarations, Biological Opinion, and Incidental Take permit.

EDUCATION

1974-1978 B.S. Petroleum Engineering, *Montana Tech*

SHAMS HASAN
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PROFILE

- HSE Manager at a California-based independent oil exploration and production company
- Air quality expert – Extensive experience with Climate Change programs, GHG emissions management, Carbon trading, AB-32, Emission Reduction Credits, and offsets
- Experienced environmental professional with broad experience in project management, policy implementation, strategic planning, and development and implementation of environmental laws and regulations pertaining to energy, oil and gas, construction, manufacturing, and other industries
- Excellent self-leadership, interpersonal communication skills, and cultural sensitivity with the ability to effectively and tactfully interact with individuals
- Several years of professional experience in ambient air quality monitoring, emission inventory compilation with expertise in air quality management protocols and strategies
- Experience in the development of criteria pollutant and greenhouse gas inventories
- Excellent analytical and leadership skills, including motivation, negotiation skills and conflict resolution
- Experience in strategic planning, milestone creation, project scheduling and overseeing external relations with relevant stakeholders including academia, government officials, elected representatives, members of industries, community activists and others
- Excellent communication skills - experienced in writing detailed technical reports and making verbal and written presentations
- Proven record of building and managing teams and creating an enabling environment, including the ability to effectively lead, supervise, mentor, develop and evaluate multi-cultural and multi-ethnic staff
- Computer proficient in spreadsheets, analytical tools and proprietary software

SUMMARY OF WORK EXPERIENCE:

May 2012 – Present: E & B Natural Resources Management Corp.
Bakersfield, CA

Current Position: Manager HSE

Job function:

- Ensure that oil exploration and production activities are in compliance with federal, state, and regional environmental rules and regulations
- Ensure compliance with all environmental regulations and programs including (1) Climate Change, Global Warming Solutions Act, Cap and Trade, carbon trading and Low Carbon Fuel Standards; (2) State Water Resources Control Board; and (3) Other regulations
- Coordinate with consultants, Engineering, Operations and Production staff to discuss and resolve issues, exchange information, and provide specialist guidance and support for environment - related issues
- Lead interface and frequent liaison with regulatory agencies, industry associations, outside consultants and contractors with respect to environmental projects, applications, permits, and compliance activities
- Coordinate implementation and maintenance of environmental permits and report monitoring
- Advise management on emerging environmental issues, and present recommendations to address these issues
- Experienced in identifying and evaluating potential compliance risks and related operational and business impacts resulting from environmental legislation and regulation
- Negotiate and procure emissions offsets and credits
- Coordinate permitting and compliance activities with all regulatory agencies
- Identify new or amended regulatory initiatives and take proactive steps to minimize disruption or excessive cost
- Lead key regulatory negotiations including settlement of notices of violation
- Oversee compliance tracking database and implementation
- Coordinate with exploration and production divisions to ensure that all environmental permits are available before any exploration or production activity commences and without delay in project deadlines

July 1988 – May 2012 **South Coast Air Quality Management District (SCAQMD)**

Last position (March 1999 – May 2012) **Air Quality Specialist**

Job function:

- Independently developed and coordinated air quality programs and regulations
- Identified and evaluated potential compliance risks and related operational and business impacts resulting from air quality legislation and regulation

- Determined pollutant inventories, established emission baselines, and formulated reduction goals
- Formed external and internal multi-disciplinary, working groups to involve impacted stakeholders including private sector, NGOs, and major interest groups in environmental policy dialogue and development
- Analyzed, reviewed and evaluated existing environmental regulations and programs and recommended modification or amendment to reflect recent changes in federal or state laws
- Provided operational support to solve challenges related to air pollution control, emission estimating, regulatory compliance, permitting issues, and other air related areas
- Participated in dialogue with impacted stakeholders to develop the support necessary to enhance the management of priority environmental concerns and ensure effective implementation of agency's policies

Projects managed:

- New Source Review (NSR) program administration and development
- Proposed amendments to NSR to comply with US EPA implementation requirements for $PM_{2.5}$
- Harmonized Best Available Control Technology (BACT) guidelines for attainment and non-attainment pollutants at major and non-major sources
- Allocation of Emission Reduction Credits (ERCs) to power plants, energy projects of regional significance, and other essential services
- Regulatory program to control emissions and fugitive dust from agricultural operations, poultry farms, and confined animal facilities

January 1998 – March 1999 **Air Quality Engineer II**

SCAQMD – Diamond Bar, CA

Job function:

- Negotiated and finalized air pollution permits
- Developed and conducted environmental compliance and permitting training
-
- Conducted health risk assessment based on emissions and modeling data

Programs developed and administered include:

- Comprehensive system to track ERCs for NSR equivalence
- BACT guidelines for major and minor sources
- Certified Permitting Professionals Program (CPPP). Authored CPPP training manual
- Equipment Certification and Registration Program
- Air Toxics Risk Assessment Procedure

July 1988 – January 1998 **Air Quality Inspector II**

SCAQMD – Diamond Bar, CA

Job function:

- Provided regulatory expertise to all stakeholders to ensure compliance with air quality regulations.
- Provided leadership to and mentored air quality inspectors as they investigated causes and sources of air pollution
- Supervised administrative, technical, and professional activities, programs, and personnel
- Conducted periodic inspections of stationary to ensure implementation of local, state and federal environmental regulations
- Monitored air emission sources; performed opacity and emission tests
- Assisted small businesses in achieving environmental compliance
- Completed several voluntary environmental audit of NSR air permits and regulatory applicability review of facilities, identifying and recommending corrective actions for the potential non-compliant situations discovered
- Facilitated a number of agency inspections and complaint responses

Programs developed and administered include:

- Self Audit Program for Dry Cleaning Industry
- Rule effectiveness study on spray equipment for Volatile Organic Compounds (VOC)
- Control of CFCs and other ozone depletion compounds (ODCs)

INDEPENDENT ASSIGNMENT

December 2009 – June 2010
Environmental impact assessment consultant and expert for a USAID funded dam and clean water supply project in Pakistan.

Job function:

Extensive review, edit, and preparation of the Environmental Site Assessment / Environmental and Social Impact Assessment (ESIA) for Gandao Dam/Drinking Water Safety Scheme for Ghalanai, Mohmand Agency in Pakistan's Federally Administered Tribal Areas, a project funded by United States Agency for International Development (USAID). In collaboration with a local environmental consulting company based in Islamabad, my role in the project was as the foreign expert and consultant, to ensure the EA properly analyzed potential environmental impacts, provided a significance determination and mitigated where necessary and feasible pursuant to the National Environmental Protection Act (NEPA) and USAID Code of Federal Regulations, Part 216.

EDUCATION:

- Masters Business Administration (MBA), California State University, San Bernardino, 1995
- BS, Mechanical Engineering, University of Engineering and Technology, Lahore, Pakistan, 1976

CERTIFICATION:

- Certificate in Workplace Health & Safety Management, University of California, Riverside, 1996

LANGUAGES:

- English – Fluent in speaking, writing, and reading. Highly skilled in making oral and written presentations.
- Urdu – Native language: Fluent in speaking, writing, and reading. Highly skilled in making oral and written presentations.
- Arabic – Fluent in speaking and reading. Competent in making oral presentations.
- Punjabi – Fluent in speaking, writing, and reading. Highly skilled in making oral and written presentations.

PROFESSIONAL AFFILIATIONS:

- Air and Waste Management Association (A&WMA), USA
- Institute of Engineers

PUBLIC PRESENTATIONS:

- "Air pollution and Carbon Trading", a special presentation to Federation of Pakistan Chambers of Commerce and Industry (FPCCI), Karachi, February 2009.
- Keynote speaker on "Environment in relation to air pollution, poverty alleviation and agriculture", organized by United Nations Development Program (UNDP), Pakistan, at University of Arid Agriculture, Rawalpindi.
- Featured speaker at seminars organized by Institute of Heating and Air Conditioning Industries (IHACI), Los Angeles, California, on CFC Rules and Regulations and "Use of CFCs and the effects of Ozone Depleting Compounds (ODCs)".
- Delivered a series of lectures to the Refrigeration Service Engineers Society (RSES), Los Angeles, California on CFCs and other ODCs.

PUBLICATIONS:

- "Enhancing the Availability of Emission Reduction Credits in an Extreme Non-Attainment Area" – abstract submitted to A&WMA, January 2003.
- "Structuring an Emissions Offset Solution for New Power Plants in the Los Angeles Basin in the Midst of California's Energy Crisis" – Paper Presented to Air & Waste Management Association (A&WMA) National Conference, June 2002.

ADDITIONAL INFORMATION:

- Member Offsets Working Group, Santa Barbara Air Pollution Control District
- Past Chairman Board of Directors, Al-Shifa Free Clinic, San Bernardino, California; (honorary position), a non-profit medical and dental clinic providing free healthcare to the indigent and under-served population in San Bernardino County and surrounding regions
- Member Advisory Committee, International Standards Authority Inc., USA

Steven Richard Radis

Qualifications:

Mr. Radis is a Principal at Marine Research Specialists (MRS) and is located in their Ventura, California office. His expertise includes consequence and risk analysis, fire and explosion dynamics, hazard evaluation, external events analysis, fault tree analysis, meteorological modeling and analysis, air quality modeling and health risk assessment, and model development.

Mr. Radis earned an M.A. and B.A in Climatology from California State University, Northridge. He is a member of the American Meteorological Society, and the Air and Waste Management Association. He has also periodically served as a guest lecturer at the University of California Santa Barbara in the areas of meteorology and atmospheric diffusion modeling.

Prior to joining MRS, Mr. Radis worked for Arthur D. Little, Inc. as a Principal in their Global Environment and Risk Practice, Dames & Moore as a Senior Meteorologist, Radian Corporation as an Atmospheric Scientist, Southern California Edison Company as a Research Meteorologist and California State University, Northridge as a technical assistant. He has more than thirty years of numerical modeling experience.

Mr. Radis has worked on a wide variety of studies for commercial and government clients involving meteorological modeling, quantitative risk assessments, health risk assessments, consequence analysis, risk management, air quality modeling (inert/photochemical pollutants, toxic air contaminants) and environmental impact reports/statements.

- Mr. Radis has prepared more than 200 risk analyses for a wide variety of fixed facility and transportation projects, including refineries, chemical manufacturing facilities and power generation facilities. Transportation projects have included marine terminals, pipelines, rail and truck transportation of a variety of materials including nuclear fuel, toxic inhalation hazard (TIH) chemicals, acutely hazardous materials, propellants, crude oil, petroleum products and liquefied/compressed gases.

- For the Center for Chemical Process Safety (CCPS) of the American Institute of Chemical Engineers (AIChE), Mr. Radis co-authored a book entitled *Guidelines for Postrelease Mitigation Technology in the Chemical Process Industry*. As part of this effort, Mr. Radis prepared numerical simulations and quantitatively evaluated the effectiveness of a variety of mitigation technologies.

- Mr. Radis was the project manager for the Alon Bakersfield Refinery Crude Flexibility Project Environmental Impact Report that was prepared for the Kern County Planning Department. The purpose of the proposed project is to allow greater flexibility for the existing refinery to process a variety of crude oils on-site. To facilitate this request, the project proposes the following: 1) Expansion of existing and construction of new rail, transfer and storage facilities; to include construction of a double rail loop from a new on-site spur connection off of the existing BNSF Railway and the addition of up to three boilers; 2) Construction of process unit upgrades and/ or modifications; 3) Repurposing of existing tankage; and, 4) Relocation and modernization of existing Liquefied Propane Gas (LPG) truck rack and upgrades to sales rack.

- For the County of San Luis Obispo, Mr. Radis completed the Hazards and Hazardous Materials section of the Environmental Impact Report for the Phillips 66 Rail Spur Extension And Crude Unloading Project. For this analysis, Mr. Radis prepared a Transportation Quantitative Risk Analysis (TQRA) for several potential rail routes to the refinery within California. The Rail Spur Project would involve unloading of up to five unit trains per week, with a 250 annual maximum number of trains. In a unit train configuration, each train would consist of three locomotives, two buffer cars, and 80 railcars each carrying between 26,076 and 28,105 gallons for a total of between 49,670 and 53,532 barrels of crude oil per unit train.

- Mr. Radis completed a safety and vulnerability analysis of the Diablo Canyon Power Plant (DCPP) and the San Onofre Nuclear Generating Station (SONGS) Steam Generator Replacement Projects for the California Public Utilities Commission. The EIR analyses evaluated a range of equipment and operational failure modes and quantitatively evaluated the associated radiological consequences of core damage accidents and releases. Failure modes, release mechanisms and consequences associated with terrorist attacks were also evaluated.

- For the County of San Luis Obispo, Mr. Radis completed a safety and vulnerability analysis of the Diablo Canyon Power Plant (DCPP) Independent Spent Fuel Storage Installation (ISFSI). The EIR analysis evaluated a range of equipment and operational failure modes and quantitatively evaluated the associated radiological consequences of spent fuel pool and dry cask storage accidental releases. Failure modes, release mechanisms and consequences associated with terrorist attacks were also evaluated.

- Mr. Radis has prepared more than 100 health risk assessments for a variety of facilities including power plants, oil and gas projects, hazardous waste sites (both State and Superfund listed sites), chemical milling facilities, the mining industry and waste disposal sites.

- Mr. Radis has prepared air quality impact and dispersion modeling analyses for hundreds of projects ranging from power plants, oil and gas development and site remediation. These analyses have included the development of meteorological data sets, emission inventories, terrain simulations, and in some cases, the development of site-specific models. These analyses included the use of several meteorological models, including the Mesoscale Meteorological Model, CALMET and AERMET, and a wide variety of EPA and proprietary dispersion models. Dispersion models that have been used include the Urban Airshed Model (UAM), CALPUFF, CALGRID, AERMOD, Complex Terrain Dispersion Model (CTDM and CTDM+), Rough Terrain Dispersion Model (RTDM), Offshore and Coastal Dispersion Model (OCD), Industrial Source Complex Short Term (ISCST3) model, and many others.

- Mr. Radis has worked on the development of several models including the development or revisions to several accidental release models, an oil spill model, a multi-component pool model, atmospheric diffusion models, fixed facility and transportation quantitative risk analysis mopdels, an integrated human exposure and health risk assessment model, and several meteorological models.

Marine Research Specialists

Appendix V-3

Gas Flare Noise Assessment Report

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ACOUSTICAL ANALYSIS

GAS FLARE NOISE ASSESSMENT
OIL AND GAS DEVELOPMENT EIR
KERN COUNTY, CALIFORNIA

PREPARED BY

WJV ACOUSTICS, INC.
VISALIA, CALIFORNIA

wjv acoustics

OCTOBER 15, 2015

113 N. Church Street, Suite 203 · Visalia, CA 93291· (559) 627-4923 ·

INTRODUCTION

Project Description:

This is a noise analysis of gas flares utilized for oil and gas exploration, extraction, operations, and production activities in unincorporated Kern County and includes recommendations to update development standards and conditions to address environmental impacts.

Location:

The project area generally includes the unincorporated areas of Kern County, California where oil and gas development and production has historically occurred or is likely to occur in the future.

Acoustical Analysis:

This acoustical analysis has been prepared to supplement the previously submitted environmental noise assessment (ENA) prepared by Brown-Buntin Associates, Inc. (BBA) to determine if significant noise impacts would occur as a result of the use of various types of gas flares and to describe mitigation measures for noise if significant impacts are determined. Please note, this analysis will not include a description of the existing noise environment, please refer to the above-referenced ENA for such information.

Appendix A provides definitions of the acoustical terminology used in this report. Unless otherwise stated, all sound levels reported in this analysis are A-weighted sound pressure levels in decibels (dB). A-weighting de-emphasizes the very low and very high frequencies of sound in a manner similar to the human ear. Most community noise standards utilize A-weighted sound levels, as they correlate well with public reaction to noise.

REGULATORY SETTING

Appendix G (Environmental Checklist Form) of the CEQA Guidelines indicates that significant noise impacts may be assumed to occur when a project will expose people to noise levels in excess of standards established in local noise ordinances or general plans, or causes a substantial permanent or temporary increase in noise levels above levels existing without the project.

Noise Level Standards:

The project area does not include incorporated cities within Kern County. However, project-related activity results are relevant to the incorporated cities within the County if such activities occur near or adjacent to incorporated city boundaries. The project area also includes land that is under the jurisdiction of the U.S. Bureau of Land Management (BLM). Noise standards for the County, certain cities within the project area and the BLM are therefore addressed by this study.

It is noted that most jurisdictions within Kern County and the BLM utilize the Day-Night Average Level (DNL) or Community Noise Equivalent Level (CNEL) to describe noise exposure for noise compatibility planning purposes. Both the DNL and CNEL represent the

time-weighted energy average noise level for a 24-hour day, with a 10 dB penalty added to noise levels occurring during the nighttime hours (10:00 p.m.-7:00 a.m.). The CNEL includes an additional penalty of 5 dB (technically 4.77 dB) that is added to noise levels occurring during the evening hours between 7:00 p.m. and 10:00 p.m. The CNEL is utilized to describe aircraft noise exposure as required by the State of California. Both the DNL and CNEL represent cumulative exposure to noise over an extended period of time and are therefore calculated based upon *annual average* conditions. The DNL and CNEL are considered to be equivalent descriptors of the community noise environment for the purposes of this study.

Some jurisdictions also apply hourly standards to noise from non-transportation sources that are not preempted from local regulation by existing state or federal standards. Transportation noise sources include traffic on public roadways, railroads and aircraft. Non-transportation (or stationary) noise sources generally include commercial and industrial activities.

Kern County

The Kern County Noise Element of General Plan[1] (2004) establishes a land use compatibility criterion of 65 dB DNL for exterior noise levels in outdoor activity areas of residential uses. Outdoor activity areas generally include backyards of single-family residences and individual patios or decks of multi-family developments. The intent of the exterior noise level requirement is to provide an acceptable noise environment for outdoor activities and recreation.

The noise element also requires that interior noise levels attributable to exterior noise sources not exceed 45 dB DNL. The intent of the interior noise level standard is to provide an acceptable noise environment for indoor communication and sleep.

City of Delano

The City of Delano General Plan (2005) contains noise level standards applicable to transportation and non-transportation sources. For noise-sensitive uses exposed to noise from transportation noise sources, the exterior noise level standard (Table 7-2 of the noise element) is 65 dB DNL/CNEL. The interior noise level standard for noise-sensitive uses is 45 dB DNL/CNEL.

For non-transportation sources, the noise element establishes hourly noise level standards in terms of the equivalent sound level (L_{eq}) and maximum noise level (L_{max}) descriptors. The standards are more restrictive during the nighttime hours between 10:00 p.m. and 7:00 a.m. The hourly L_{eq} standards are 55 dB during the day and 50 dB during the night. The hourly L_{max} standards are 75 dB during the day and 70 dB during the night.

City of McFarland

The City of McFarland has adopted by reference the Noise Element of the Kern County General Plan. The exterior noise level standard is therefore 65 dB DNL for noise levels in outdoor activity areas of residential and other noise-sensitive uses. The interior noise level standard is 45 dB DNL within interior living spaces or other noise-sensitive interior spaces.

City of Wasco

The City of Wasco General Plan (2002) utilizes the same noise level standards as Kern County. The exterior noise level standard is 65 dB DNL for noise levels in outdoor activity areas of residential and other noise-sensitive uses. The interior noise level standard is 45 dB DNL within interior living spaces or other noise-sensitive interior spaces.

City of Shafter

The City of Shafter General Plan (2005) establishes noise objectives for different land uses in terms of the CNEL. The general plan noise objective for rear yards of single-family dwellings and open areas within multi-family developments is 60-65 dB CNEL. For school classrooms and play areas, the noise objectives are 60 dB and 70 dB CNEL, respectively. The noise objective for the interior of hospitals and libraries is 60 dB CNEL. For commercial and industrial uses the noise objective is 65-70 dB CNEL at the front setback. The general plan does not specifically establish an interior noise level standard for residential uses. However, the general plan makes reference to enforcing the California Noise Insulation Standards which require an interior noise exposure of 45 dB DNL/CNEL for new multi-family dwellings and transient lodging.

City of Arvin

The City of Arvin General Plan (1989) utilizes the same noise level standards as Kern County. The exterior noise level standard is therefore 65 dB DNL for noise levels in outdoor activity areas of residential and other noise-sensitive uses. The general plan does not specifically establish an interior noise level standard for residential uses. However, the general plan makes reference to enforcing the California Noise Insulation Standards which require an interior noise exposure of 45 dB DNL/CNEL for new multi-family dwellings and transient lodging.

City of Bakersfield

The Metropolitan Bakersfield General Plan (2002) establishes noise level standards for transportation and non-transportation sources. For transportation sources, the noise element sets a standard of 65 dB CNEL at the exterior of noise-sensitive uses. Noise-sensitive uses include residences, schools, hospitals and recreational areas. An interior noise standard of 45 dB CNEL applies within interior living spaces.

For non-transportation noise sources, the noise element applies hourly noise level performance standards at residential and other noise-sensitive uses. Table 1 summarizes the applicable hourly noise level standards.

TABLE I

HOURLY NOISE LEVEL PERFORMANCE STANDARDS
STATIONARY NOISE SOURCES
METROPOLITAN BAKERSFIELD GENERAL PLAN

Maximum Acceptable Noise Level, dB		
Min./Hr. (L_n)	**Day (7a-10p)**	**Night (10p-7a)**
30 (L_{50})	55	50
15 (L_{25})	60	55
5 ($L_{8.3}$)	65	60
1 ($L_{1.7}$)	70	65
0 (L_{max})	75	70

Note: L_n means the percentage of time the noise level is exceeded during an hour. L_{50} means the level exceed 50% of the hour (30 minutes), L_{25} is the level exceed 25% of the hour (15 minutes), etc.

Source: Metropolitan Bakersfield General Plan

City of Taft

The City of Taft General Plan (2009) contains a land use compatibility chart (Table 8.0-1) that specifies acceptable noise exposure for various land uses. The acceptable exterior noise exposure for noise-sensitive uses, including residential, transient lodging, mixed use, schools, libraries, churches, hospitals and nursing homes, is 65 dB DNL/CNEL. For playgrounds, neighborhood parks, office buildings and commercial buildings, the acceptable exterior noise exposure is 70 dB DNL/CNEL. For industrial, manufacturing and agricultural uses, the acceptable exterior noise exposure is 75 dB DNL/CNEL. The noise element also specifies an acceptable interior noise exposure for the above-described noise-sensitive uses of 45 dB DNL/CNEL or below.

City of Maricopa

The City of Maricopa noise standards are contained within its zoning ordinance. The standards are the same as those contained within the County's noise element. The exterior noise level standard is therefore 65 dB DNL for noise levels in outdoor activity areas of residential and other noise-sensitive uses. The interior noise level standard is 45 dB DNL within interior living spaces or other noise-sensitive interior spaces.

State of California

There are no known state noise standards that are applicable to the project.

Federal Noise Standards

The U.S. Department of the Interior, Bureau of Land Management (BLM) has jurisdiction over part of the land within the project area. The BLM does not employ specific noise level standards but historically has referred to guidelines contained with U.S. Environmental Protection Agency (EPA) document entitled "Information on Levels of Environmental Noise Requisite to Protect

the Public Health and Welfare with an Adequate Margin of Safety"[2] (1974 EPA Levels Document).

One of the purposes of the 1974 EPA Levels Document was to provide information for use by state and local governments in developing their own noise standards. It was intended that such information be utilized along with other factors such as the balance between costs and benefits when establishing noise level standards. Information contained within the document was taken into consideration by the State of California when it published guidelines for developing local general plan noise elements. The noise level standards of Kern County and its incorporated cities are based upon those guidelines.

The 1974 EPA Levels Document identified an exterior noise exposure of 55 dB DNL and an interior noise exposure of 45 dB DNL as sufficient to *prevent* activity interference and annoyance. As noted above, such recommendations do not take into account the balance between cost and benefit. The noise level standards adopted by Kern County and its incorporated cities are intended as a compromise to protect the public health and welfare while allowing for reasonable development and commerce.

Other federal standards that could be considered applicable to the project include the U.S. Department of Housing and Urban Development (HUD) standards. The HUD standards are the same as those of Kern County with an exterior noise standard of 65 dB DNL and an interior standard of 45 dB DNL. The HUD standards come into play when federal funds may be used for housing development projects.

Substantial Noise Increases:

CEQA does not define what constitutes a substantial increase in noise levels. Some guidance is provided by the 1992 findings of the Federal Interagency Committee on Noise (FICON) [3], which assessed changes in ambient noise levels resulting from transportation noise sources. The FICON recommendations are based upon studies that relate aircraft and traffic noise levels to the percentage of persons highly annoyed by the noise. The rationale for the FICON recommendations is that it is possible to consistently describe the annoyance of people exposed to transportation noise in terms of the DNL (or CNEL). Annoyance is a summary measure of the general adverse reaction of people to noise that results in speech interference, sleep disturbance, or interference with other daily activities.

Although the FICON recommendations were specifically developed to address transportation noise impacts, they are used in this analysis for all noise sources that are described in terms of cumulative noise exposure metrics such as the DNL or CNEL. Table II summarizes the FICON recommendations.

TABLE II

MEASURES OF SUBSTANTIAL NOISE INCREASE FOR TRANSPORTATION SOURCES

Ambient Noise Level Without Project (DNL/CNEL)	Significant Impact Assumed to Occur if the Project Increases Ambient Noise Levels By:
<60 dB	+ 5 dB or more
60-65 dB	+3 dB or more
>65 dB	+1.5 dB or more

Source: FICON, 1992, as applied by WJV Acoustics, Inc.

GAS FLARE NOISE IMPACTS AND MITIGATION

Kern County and its incorporated cities within the project area all apply an exterior noise level standard of 65 dB DNL/CNEL for noise-sensitive receptors and an interior noise level standard of 45 dB DNL/CNEL for interior spaces of noise-sensitive buildings. Additionally, the cities of Bakersfield and Delano have hourly noise level standards (described above under Regulatory Setting). Such standards are only applicable to non-transportation (or stationary) noise sources that may be regulated by a local jurisdiction. Stationary noise sources include most project-related activities that could affect nearby noise-sensitive uses.

The precedent for using cumulative noise exposure metrics such as the DNL and CNEL has been well established for land use compatibility planning purposes. However, from a CEQA standpoint, it has been successfully argued that the DNL or CNEL do not by themselves adequately define the potential noise impacts resulting from intermittent sources of noise that may occur at different times of the day or night. For that reason, hourly noise level standards are recommended to determine if a project-related activity will result in a significant impact and the need for noise mitigation.

For consistency with local jurisdictions in Kern County and elsewhere in the San Joaquin Valley, hourly equivalent sound level (Leq) standards of 55 dB during the daytime hours (7:00 a.m.-10:00 p.m.) and 50 dB during the nighttime hours (10:00 p.m.-7:00 a.m.) are applied. Additionally, hourly maximum noise level (L_{max}) standards of 75 dB during the daytime hours and 70 dB during the nighttime hours are applied.

Compliance with the above-described hourly noise level standards will ensure compliance with the 65 dB DNL standard that has been adopted by Kern County, even if the source were to operate 24 hours per day. A constant noise level of 50 dB for 24 hours per day would result in a DNL/CNEL of approximately 57 dB. A constant noise level of 55 dB for 24 hours per day would result in a DNL/CNEL of approximately 62 dB.

Noise levels generated by the project are considered a significant impact if any of the following conditions would be expected to occur:

1. The project will cause noise levels exterior to any existing or planned noise-sensitive receptor to exceed 65 dB DNL. Noise-sensitive uses include residential, transient

lodging, churches and other places of worship, schools, libraries, hospitals, long-term care facilities, and any other use deemed noise-sensitive by Kern County.

2. The project will cause noise levels exterior to any existing or planned noise-sensitive receptor to exceed an hourly equivalent sound level (L_{eq}) of 55 dB during the daytime hours (7:00 a.m.-10:00 p.m.) or 50 dB during the nighttime hours (10:00 p.m.-7:00 a.m.).

3. The project will cause noise levels exterior to any existing or planned noise-sensitive receptor to exceed an hourly maximum sound level (L_{max}) of 75 dB during the daytime hours (7:00 a.m.-10:00 p.m.) or 70 dB during the nighttime hours (10:00 p.m.-7:00 a.m.).

4. The project will cause a 5 dB or greater increase in the ambient noise level, as defined by the annual average DNL, at the location of any existing or planned noise-sensitive receptor. The annual average DNL may be estimated from noise exposure information contained within the general plan of the affected jurisdiction, or from the findings of a project-specific noise analysis performed by a qualified individual.

Project-Related Noise Impacts:

Noise levels associated with gas flare activities were measured at several locations throughout Kern County in September, 2015. For each analyzed flare, noise level measurements were taken in multiple directions from the flare to account for variations that occur as a result of localized conditions, such as wind or site-specific shielding.

Noise measurements were conducted using a Larson Davis Model 824 Sound Level Meter to document the spectral (frequency) components of each source. The meter was calibrated prior to use with a Larson Davis CA250 calibrator to ensure the accuracy of the measurements. A windscreen was used over the microphone to avoid interference resulting from wind sources during outdoor measurements.

Descriptive flare information was provided by the flare operators.

1. Hopkins Flare: Operated by Freeport McMoRan. John Zink 21.0 MMBTU/Hour. Average waste gas, 450 MCF/Day. The Hopkins flare is considered a continual use flare and has a pilot which burns approximately 5 MCF/Day PUC gas.

2. Redbank and Edison Flare: Operated by CRC. Air assisted natural gas flare permitted for 10.41 MMBTU/Hour, currently incinerating approximately 29 MCF/Day. Mactronic continuous natural gas pilot.

3. Semitropic Flare: Process flare permitted continuous use at 100K CF/Day, typically operating at 50-75% permitted use.

4. Shafter Flare: Operated by CRC. 41.7 MMBTU/Hour, Coanda high pressure flare tip. Available for use 24-hours per day, but not in use under typical conditions. According to the operator, the flare was operating in anomalous conditions during the measurement period, as pipelines were undergoing maintenance, resulting in excess gas being

incinerated. This type of flare is rare within Kern County, and infrequently operates at the observed conditions.

5. Maricopa Flare: Operated by Drilling and Production Company. 15.1 MMBTU/Hour Kaldair Indair Produced gas flare. At time of measurement the flare was incinerating approximately 200 MCF/Day, 575 BTU/SCF (approximately 4.8 MMBTU/Hour).

Flare-related noise levels were calculated using the SoundPLAN noise model. SoundPLAN utilizes measured spectral sound power levels to determine noise exposure from a noise source. Inputs to the model include noise source spectral sound power levels, topography, atmospheric conditions, ground absorption factors, shielding from existing walls or buildings, noise source height and receiver height. Since this analysis is not site specific, some assumptions and generalities were made in order to calculate potential project-related noise levels. Table III summarizes the assumptions used for the model. These assumptions represent a worst-case assessment in regards to noise propagation from gas flare activities.

TABLE III

GAS FLARE NOISE MODELING ASSUMPTIONS
KERN COUNTY OIL AND GAS PRODUCTION EIR

Topography	Flat
Ground Absorption Factor	0.5 (a mixture of hard ground, water, vegetation, loose soils, etc.)
Shielding	None
Temperature	40° Fahrenheit
Relative Humidity	50%
Receiver Height	5 feet
Noise Source Height	10 feet

Source: WJVA

Gas flares are utilized for various applications throughout Kern County, with oil and gas operations. Typically, the gas being combusted is considered “associated gas”. Associated gas is gas that is contained within an oil producing formation, but due to quality or quantity, may not a viable source of gas. The gas is then burned off through the use of a gas flare. Oil field production flares are also utilized during well drilling and well testing, and aid in the determination of a viability of an oil well. Since the construction and structural components of flares vary based upon intended use, location and output, associated noise levels can vary widely.

For each modeled gas flare, the loudest observed measurement was utilized as a basis for modeling potential project-related noise exposure for future activities. Therefore, gas flare noise levels described below represent a worst case assessment of gas flare noise exposure.

TABLE IV

GAS FLARE NOISE EXPOSURE
KERN COUNTY OIL AND GAS PRODUCTION EIR
SHORT-TERM Leq LEVEL

Flare	Distance (feet) to Leq Contour	
	50 dB	**55 dB**
Hopkins Flare	43	24
Redbank and Edison	140	80
Semitropic	185	105
Shafter[1]	4,200	2,400
Maricopa	350	200

[1]Shafter flare was operating under anomalous conditions, noise levels provided are not considered typical.

Source: WJV Acoustics, Inc.

TABLE V

GAS FLARE NOISE EXPOSURE
KERN COUNTY OIL AND GAS PRODUCTION EIR
DAY-NIGHT AVERAGE SOUND LEVEL (DNL)

Activity	Distance (feet) to DNL Contour	
	60 dB	**65 dB**
Hopkins Flare	27	**15**
Redbank and Edison	107	**60**
Semitropic	130	**73**
Shafter[1]	2,960	**1,664**
Maricopa	251	**141**

[1]Shafter flare was operating under anomalous conditions, noise levels provided are not considered typical.

Source: WJV Acoustics, Inc.

Prescriptive Noise Mitigation Measures

Tables IV and V summarize the flare-related activities and provide distances from each flare to various noise levels for the L_{eq} and DNL metrics. Table IV provides the distances between the activity and a noise-sensitive use where an applicable threshold of significance will not be exceeded (50 and 55 dB Leq contours) such as in the cities of Delano and Bakersfield. The distances provided in Table IV can be used when statistical (L_{eq} or L_{50}) standards are applicable.

Table V provides the distances between the activity and noise-sensitive uses that must be achieved when DNL noise level standards are applicable. The Noise Element of the Kern County General Plan establishes a land use compatibility criterion of 65 dB DNL for exterior noise levels in outdoor activity areas of residential uses. Additionally, the 65 dB DNL exterior noise level criterion is commonly applied throughout incorporated areas of Kern County, and therefore should be used to determine project compliance in most instances.

Compliance with the distances summarized by Table IV and Table V should be interpreted to mean that a significant noise impact would not be expected as a result of the project and additional noise mitigation will not be required. However, determination of whether the project could result in a 5 dB or greater increase in the existing annual average DNL will require that noise exposure information for the project site be analyzed by reference to appropriate documents or a site-specific analysis be conducted.

Additionally, if more than one of the above-described activities are occurring in close proximity to each other, the distances to the contours described in Tables IV and V would likely increase. Tables IV and V do not address the additive nature of multiple noise sources. Decibels are logarithmic units that cannot be added linearly. For example, if two identical noise sources are added together, noise levels would increase by 3 dB over the individual source levels (65 dB + 65 dB=68 dB). It is not possible to quantify or describe every potential scenario of combinations.

It should be noted; distances described in Tables IV and V for "Shafter Flare" should not be applied to common gas flare operations performed in Kern County. The Shafter Flare was operating under anomalous conditions during the measurement period. Noise setback analysis distances described in Tables IV and V for the flares excluding the Shafter Flare represent noise levels that are to be expected from commonly used gas flares throughout the county.

It is recognized that there may be instances where the noise level data and distances presented in Tables IV and V may not adequately define the potential for significant noise impacts. The determination of such circumstances should be made by Kern County. Factors that should be considered in making such a determination should include the noise generation potential of the project due to modified or specialized equipment or processes that were not analyzed as a part of this study, the topographical relationship between the source and affected noise-sensitive receptors, the duration and proposed hours of operation of the project, and the potentially unique character of the receiving land use or existing ambient noise levels. Under such circumstances, an acoustical analysis may be required to determine project-related noise levels and required mitigation measures. Potential additional noise mitigation measures are described below.

1. Limits on hours of operation: Since the hourly noise level standards are 5 dB more restrictive at night between the hours of 10:00 p.m. and 7:00 a.m., a particular activity could occur closer to a sensitive receiver if hours of operation were restricted to the daytime hours between 7:00 a.m. and 10:00 p.m.

2. Temporary or permanent noise barriers: Depending upon site-specific conditions, noise barriers could be used to reduce project-related noise levels at nearby sensitive receivers. For projects that could operate for an extended period of time, sound walls or earthen berms may be an effective form of mitigation. Temporary noise barriers, such as sound blankets, plywood or other portable materials, could be used to mitigate noise from temporary sources or construction activities. Most temporary noise barriers are effective noise reduction if properly positioned without gaps that could create sound flanking paths.

3. Use of "quiet technology" equipment: If equipment is modified or equipment with special sound reduction capabilities is utilized, and it may be demonstrated that such

equipment is quieter than the equipment analyzed for this study, potential significant noise impacts may be mitigated. Examples of such measures include use of electric motors in place of internal combustion engines and the use of equipment with special sound attenuation equipment.

4. Implementation of a quiet mode drilling plan or other sound reduction technology or practices.

5. Arranging for temporary relocation of sensitive receptors during the high noise period.

6. Or other methods that prevent or reduce noise exposure to sensitive receptors.

The conclusions and recommendations of this acoustical analysis are based upon the best information known to WJV Acoustics, Inc. (WJVA) at the time the analysis was prepared concerning the equipment type, proposed activities and hours of operation. Any significant changes in these factors will require a reevaluation of the findings of this report. Additionally, any significant future changes to the proposed activities, equipment, noise regulations or other factors beyond WJVA's control may result in long-term noise results different from those described by this analysis.

Respectfully submitted,



Walter J. Van Groningen
President

WJV:wjv

APPENDIX A

ACOUSTICAL TERMINOLOGY

AMBIENT NOISE LEVEL: The composite of noise from all sources near and far. In this context, the ambient noise level constitutes the normal or existing level of environmental noise at a given location.

CNEL: Community Noise Equivalent Level. The average equivalent sound level during a 24-hour day, obtained after addition of approximately five decibels to sound levels in the evening from 7:00 p.m. to 10:00 p.m. and ten decibels to sound levels in the night before 7:00 a.m. and after 10:00 p.m.

DECIBEL, dB: A unit for describing the amplitude of sound, equal to 20 times the logarithm to the base 10 of the ratio of the pressure of the sound measured to the reference pressure, which is 20 micropascals (20 micronewtons per square meter).

DNL/L_{dn}: Day/Night Average Sound Level. The average equivalent sound level during a 24-hour day, obtained after addition of ten decibels to sound levels in the night after 10:00 p.m. and before 7:00 a.m.

L_{eq}: Equivalent Sound Level. The sound level containing the same total energy as a time varying signal over a given sample period. L_{eq} is typically computed over 1, 8 and 24-hour sample periods.

NOTE: The CNEL and DNL represent daily levels of noise exposure averaged on an annual basis, while L_{eq} represents the average noise exposure for a shorter time period, typically one hour.

L_{max}: The maximum noise level recorded during a noise event.

L_n: The sound level exceeded "n" percent of the time during a sample interval (L_{90}, L_{50}, L_{10}, etc.). For example, L_{10} equals the level exceeded 10 percent of the time.

A-2

ACOUSTICAL TERMINOLOGY

NOISE EXPOSURE CONTOURS: Lines drawn about a noise source indicating constant levels of noise exposure. CNEL and DNL contours are frequently utilized to describe community exposure to noise.

NOISE LEVEL REDUCTION (NLR): The noise reduction between indoor and outdoor environments or between two rooms that is the numerical difference, in decibels, of the average sound pressure levels in those areas or rooms. A measurement of "noise level reduction" combines the effect of the transmission loss performance of the structure plus the effect of acoustic absorption present in the receiving room.

SEL or SENEL: Sound Exposure Level or Single Event Noise Exposure Level. The level of noise accumulated during a single noise event, such as an aircraft overflight, with reference to a duration of one second. More specifically, it is the time-integrated A-weighted squared sound pressure for a stated time interval or event, based on a reference pressure of 20 micropascals and a reference duration of one second.

SOUND LEVEL: The sound pressure level in decibels as measured on a sound level meter using the A-weighting filter network. The A-weighting filter de-emphasizes the very low and very high frequency components of the sound in a manner similar to the response of the human ear and gives good correlation with subjective reactions to noise.

SOUND TRANSMISSION CLASS (STC): The single-number rating of sound transmission loss for a construction element (window, door, etc.) over a frequency range where speech intelligibility largely occurs.

Appendix W-1

Signed Traffic Impact Study and Roadway Assessment

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Project No: 257-35

TRAFFIC IMPACT STUDY AND ROADWAY ASSESSMENT FOR KERN COUNTY OIL & GAS WELL ACTIVITY

Prepared for:

WSPA/Kern County

March 20, 2015

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INTRODUCTION

The purpose of this transportation study is to assess potential traffic impacts of future oil and gas development and production within Kern County, California. This study was prepared in support of the Environmental Impact Report (EIR) for proposed changes to the Kern County Zoning Ordinance involving local permitting of oil and gas operations.

The findings of this report are preliminary and will not be finalized until consultations with the County Roads and Planning Departments can be completed. Due to scheduling issues this study is being submitted to the County while those consultations are ongoing. Any mitigation program will be developed at the County's sole discretion after extensive review.

A. Background

Oil and gas development in Kern County has been an important part of the local economy since the late 1800's. Authority for issuance of permits involving oil and gas development has historically been held by DOGGR (California Department of Conservation, Division of Oil, Gas and Geothermal Resources). Where land use conflicts exist, authority for issuance of permits is held by Kern County.

In a public hearing on January 22, 2013, representatives of three oil and gas industry associations (collectively referred to hereinafter as "applicant") submitted a request to the Kern County Board of Supervisors to amend Title 19 (Kern County Zoning Ordinance). Specifically, the proposed amendment to Chapter 19.98 (Oil and Gas Production) includes new site development standards for all oil and gas exploration, extraction, operations and production activities in unincorporated Kern County. These

standards would place the authority for land use within the purview of the County, allowing DOGGR's authority to remain with subsurface interests.

The Board directed County staff to proceed with processing the zoning ordinance amendment request, including the development of an EIR to identify and evaluate potential environmental impacts related to future oil and gas development and production activities undertaken pursuant to the amendment. This transportation study is one of the technical studies to be prepared in support of the EIR.

B. Location and Setting

Kern County is situated at the southern end of the California Central Valley and encompasses approximately 8,202 square miles of land area. The geography of Kern County is diverse and includes mountainous terrain, agricultural lands and desert areas.

The valley floor is relatively flat and includes major transportation routes which serve both local and regional traffic. Major state corridors include Interstate 5 and State Routes 33, 46, 58, 99, 119 and 166. Major county roads include Lerdo Highway, Seventh Standard Road and Stockdale Highway. Mainlines for two major railroads (Union Pacific Railroad and BNSF Railway) also traverse the valley floor.

Eight incorporated cities are located in the valley portion of Kern County, the largest of which is the City of Bakersfield with a metropolitan area population of approximately 510,000. In general, oil and gas development exists in areas located outside of incorporated jurisdictions and oil and gas service companies are located primarily in the metropolitan Bakersfield area. A network of county rural roads provides access to oil and gas well fields.

C. Study Area and Subregions

The study area consists of approximately 3,650 square miles of unincorporated lands within Kern County and generally includes most of the San Joaquin Valley floor up to an elevation of 2,000 feet. The valley floor and the lower elevations of the surrounding mountains contain numerous deposits of oil and gas resources. The study area boundary was established by County Staff based on generally available information regarding potential or confirmed oil and gas resources.

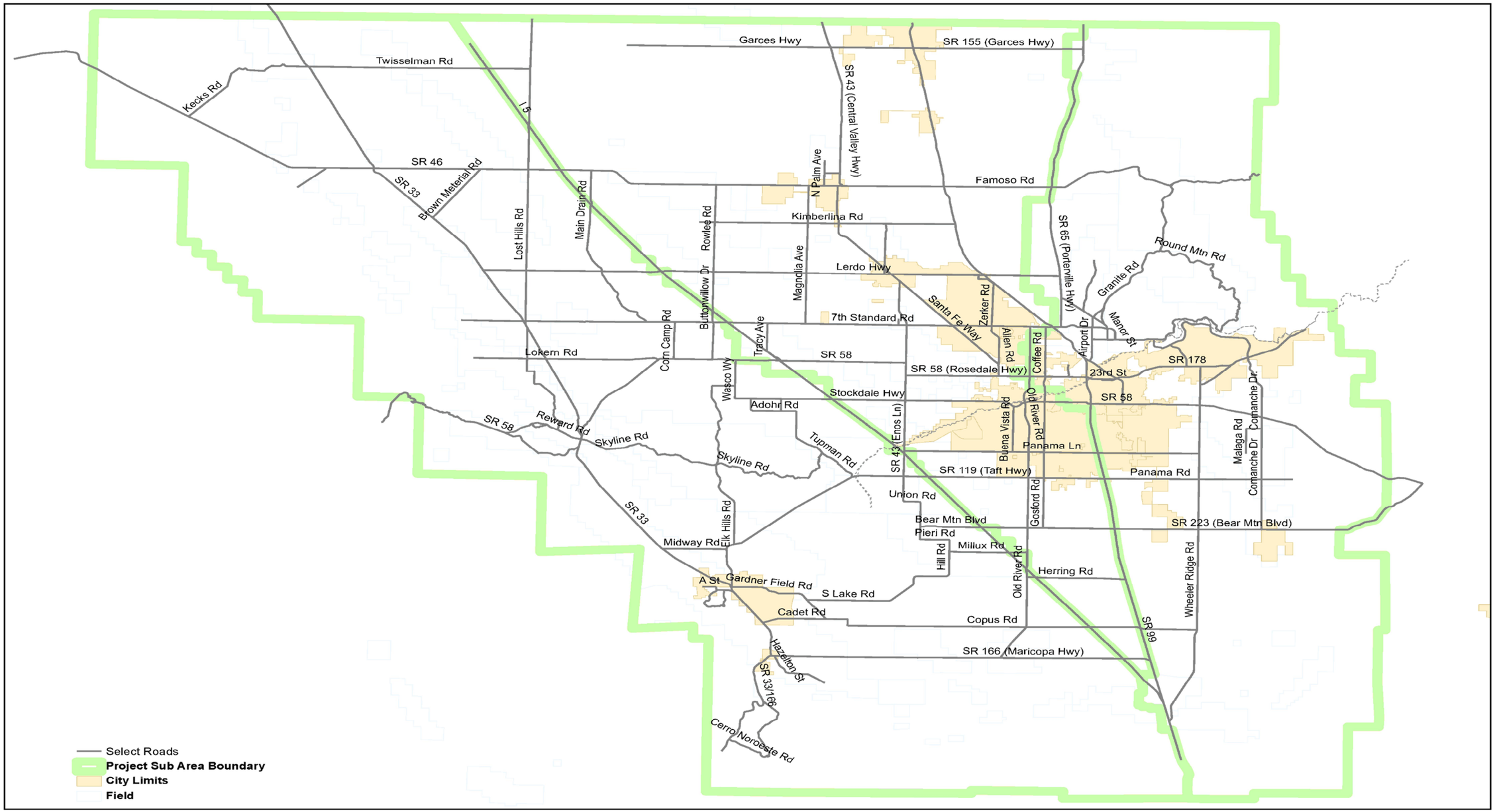
The study area was divided by County staff into three subregions: Western, Central and Eastern. As shown in Figure 1, the lines between subregions follow DOGGR Administrative Boundaries along major transportation corridors. In general, all three subregions contain a mix of oil and gas, agriculture, regional and local traffic with higher percentages of traffic related to oil and gas activities and agriculture in areas located outside of incorporated cities.

D. Well Development and Production Phases

For the purposes of this study, well development includes all activities needed to bring an oil or gas well into production, including exploration and land preparation, well drilling, completion and stimulation, and construction / installation of support infrastructure (e.g., flow lines, electric systems, etc.) and ancillary facilities (e.g., separators, storage tanks, etc.). The development phase for a single oil or gas well generally occurs over a period of approximately 30 to 90 days.

Figure 1

Study Area and Subregions



Also, for the purposes of this study, well production includes routine daily operations and inspections, regular well maintenance and reworks, and plugging and abandonment when a well no longer fulfills its intended purpose. An oil or gas well can remain in production for decades.

STUDY APPROACH

This study differs from a typical traffic impact study insomuch as oil and gas activity has been an established component of the local economy for decades. Therefore, traffic patterns associated with this activity are generally well defined and were observable within the study area. One of the challenges of the study was differentiating oil and gas traffic from other traffic within the overall traffic stream. While the project is not defined as past oil and gas activity, it is the continuation of historic activity, along with a potential increase as defined in Table 1.

A. Methodology

Evaluation of the potential impacts of vehicular traffic associated with oil and gas well activity was broken into three main areas: traffic operation, roadway physical conditions and safety. The traffic operations sections included level of service (LOS) analysis of intersections during the AM and PM peak hour periods, and a volume to capacity (V/C) analysis of average daily traffic on roadway segments. Roadway physical conditions were evaluated based on County and Caltrans roadway conditions reports and rating systems. Potential safety considerations were evaluated through review of County and Caltrans traffic data and interviews with County Roads Department staff regarding recent history of accidents primarily within oil field related areas.

It is important to note that well development and production activities are highly variable and depend upon a multitude of factors (e.g., geological formation, well depth, construction methods, etc.). Consequently, assumptions were required in order to complete the analyses for this study. All study assumptions were made based on the best available information regarding oil and gas industry operations and / or input from the applicant and / or Kern County staff.

B. Traffic Analysis Scenarios

The scope of this study includes the following traffic analysis scenarios:

Existing Traffic

Existing traffic volumes are comprised of the combination of published daily traffic volumes, generally between the years of 2012 and 2014, and AM and PM peak hour turning movements which were counted in 2014. These traffic volumes are a combination of traffic generated by non-oil and gas (NOG) activities (traffic completely unrelated to oil and gas operations), as well as traffic generated by already existing oil and gas operations. The analysis of the existing condition indicates the current operational status of intersections and roadways. This information allows for a cost analysis to determine the immediate funding requirements if improvements are needed in the existing year.

2035 % Growth Only

This scenario utilizes growth rates (based on a review of KCOG data) and the existing count data to project traffic volumes for the year 2035. This analysis provides results that would be typical of how traffic study impacts are determined for a future

year; however, oil and gas operations may not necessarily grow at the same rate as non-oil and gas traffic. For this reason, the scenario below was also analyzed for comparison.

2035 NOG + O&G Projection

This scenario utilizes existing non-oil and gas (NOG) traffic volumes projected to the year 2035, plus the addition of the projected 2035 oil and gas traffic (growth rates for projected oil and gas data were based on input provided by the applicant and Kern County staff). This scenario, where the oil and gas and non-oil and gas traffic volumes were projected at different rates, provides an additional data set from which potential impacts associated with the increase in oil and gas well activity, as defined by the County and applicant, may be identified.

EXISTING ROADWAY SYSTEM

Well field access within the study area is provided primarily from state highways and two-lane county roads. Many of these roadways also serve as regional routes.

A. North-South Routes

Interstate 5 and State Route 99 are major north-south routes which converge approximately 25 miles south of Bakersfield. Interstate 5 extends from Mexico to Canada through the states of California, Oregon and Washington, and exists as a four-lane freeway with paved shoulders and a graded median within the study area. State Route 99 extends through the Central Valley of California and operates as either a six-lane or eight-lane freeway within the study area.

State highways expected to provide north-south access to study area well fields include State Routes 33, 43 and 65. State Route 33 extends north from State Route 1 in Ventura County to Interstate 5 near Tracy and currently operates as a two-lane conventional highway within the study area. State Route 43 extends north from State Route 119 in Kern County to State Route 99 in Kings County. It operates as a four-lane highway between the cities of Shafter and Wasco and as a two-lane highway elsewhere within the study area. State Route 65 extends north from State Route 99 north of Bakersfield to State Route 198 east of Visalia. It currently operates as a two-lane conventional highway within the study area.

Most north-south county roads expected to provide access to study area well fields operate as two-lane roadways within the study area.

B. East-West Routes

Several state highways which provide access to study area well fields also function as links between Interstate 5 and State Route 99: State Routes 46, 58, 119 and 166. State Routes 46, 58 and 166 also extend westerly to the California coast. In addition, State Route 58 extends to the east and connects to Interstate 15 in the city of Barstow. State Routes 46, 58, 119 and 166 all operate as two-lane roadways in the vicinity of the well fields.

County roads which are expected to provide access to study area well fields and also serve as links for regional traffic include Lerdo Highway, Seventh Standard Road and Stockdale Highway. These roadways all operate with two lanes within the study area with the exception of Lerdo Highway from State Route 43 to State Route 99, and Seventh Standard Road from Santa Fe Way to State Route 99. Both of these segments operate as four-lane roadways.

Other county roads expected to provide east-west access currently operate as two-lane roadways in the vicinity of the well fields.

PROJECT TRAFFIC

A. Trip Generation

Traffic engineers and planners typically use trip generation rates, equations and data contained in the ITE (Institute of Transportation Engineers) Trip Generation Manual to estimate traffic volumes generated by conventional land use development (e.g., commercial, residential, recreational, etc.). However, the ITE manual does not contain similar information for oil and gas development and production.

Therefore, for the purposes of this study, a multi-tiered approach was used to estimate daily volumes of oil and gas traffic within the study area. This approach involved the use of three data sources: (1) well field vehicle counts; (2) oil and gas employment figures; and (3) AADT (Annual Average Daily Traffic) volumes. Daily trip rates developed based on the latter two data sources were used to estimate an adjustment factor for the daily trip rate developed from the first data source.

The Western Subregion and associated traffic and oil and gas data were used as the model for developing trip generation estimates due to its limited and well defined access points and high volume of oil field activity and limited number of other trip generation sources.

Well Field Counts

DOGGR data indicates that there were 36,058 active producing wells and 1,001 new wells were drilled in the Western Subregion in 2012. For the well based trip

generation estimates, activity was broken into two phases: development and production. The parameters and calculations for each phase are as follows.

Development Phase

Assume 30 trips per well per day based on oil / gas records, field observations and other studies (range 20 to 40 trips per well per day)

Assume 60 days needed to bring a new well into production (range 30 to 90 days)

30 trips per well per day x 60 days = 1,800 trips per well

Given 1,001 new wells drilled in Western Subregion in 2012

1,001 wells x 1,800 trips per well = 1,801,800 trips
(1,801,800 trips / (0.75 x 365days)) = 6,580 trips per day

SUBTOTAL: 6,600 trips / day

Production Phase

Trips per day based on oil / gas records, field observations and other studies (includes daily operation, well reworks / maintenance and plug / abandonment)

0.17 trips per well per day

Given total active producing well count of 36,058 in Western Subregion in 2012

0.17 trips per well per day x 36,058 wells = 6,130 trips per day

SUBTOTAL: 6,100 trips / day

TOTAL: 12,700 trips / day

The well based estimate for oil and gas trip generation in the Western Subregion is approximately 12,700 trips per day.

Oil / Gas Employment

The Bureau of Labor Statistics data for the year 2012 indicate that there were approximately 14,500 oil and gas field employees in Kern County. For purpose of the employee based estimate, it was assumed that the number of employees in the Western Subregion was proportional to the number of producing wells. It was also assumed that there was an average vehicle occupancy rate of 1.5 people per vehicle. The parameters and calculations for the employment based trip rate are as follows.

SOURCE: 2012 Bureau of Labor Statistics, Quarterly Census of Employment and Wages for Kern County.

Oil / gas field employees in Kern County = 14,500

Given total active producing well count of 53,943 in study area in 2012

Oil / gas field employees in Western Region = (36,058 / 53,943)
x 14,500 = 9,700

Assume vehicle occupancy rate of 1.5

Daily trips = 9,700 employees / 1.5 employees per vehicle

x 2 trips per vehicle = 12,933

TOTAL: 12,900 trips / day

The employment based trip generation estimate for the Western Subregion is approximately 12,900 trips per day, which correlates very closely with the well based estimate of 12,700 trips per day.

AADT

Regional access to the Western Subregion is limited to three routes along the western boundary and six routes along the eastern boundary. The average of the differential between published AADT volumes on the routes along each boundary was used to estimate the AADT based trip rate. The parameters and calculations are as follows.

SOURCE: Published 2012 AADT volumes from Caltrans (state routes)

SOURCE: Published 2012 AADT volumes from KernCOG (county roads)

Net AADT in Western Region (total traffic minus pass-through traffic)

= 23,400

Estimate 45% of Net AADT = agriculture and municipal / local traffic

Assume remaining 55% of Net AADT = oil / gas traffic

ADDT attributable to oil / gas activity = 0.55 x 23,400 = 12,870

TOTAL: 12,900 trips / day

The AADT base trip generation estimate for the Western Subregion is approximately 12,900 trips per day, which is the same as the employment based estimate. And both are very close to the well based estimate of 12,700 trips per day.

Adjustment Factor for Well Estimate

In consideration of the employment and AADT based estimates, the well based trip generation estimate was adjusted slightly upward.

12,900 / 12,700 = 1.02 or 1% negligible adjustment, therefore
use 12,900 trips / day for Western Region

Baseline (2012) Trip Generation for Study Area

DOGGR data indicates there was a total of 53,943 producing wells within the entire study area in 2012. A baseline trip generation estimate for the entire study area was calculated by dividing the Western Subregion trip generation estimate by the ratio of the number of producing wells in the Western subregion to number of producing wells in all three subregions. As shown below, the resultant study area baseline trip generation estimate is 19,300 trips per day.

12,900 / (36,058 / 53,943) = 19,298 trips / day

TOTAL EXISTING: 19,300 trips / day

Future Study Area Trip Generation

Future oil and gas traffic volumes were estimated by applying the well count trip rates above for development and production to annual well count projections provided by the applicant. Resultant annual future oil and gas trips for the years 2015 through 2035 are presented in Table 1.

Table 1

Projected Future Well Activity

	MONTEREY SHALE												New Wells Drilled	Producible Wells	
	New Producing Wells				All New Wells Drilled				Total Producible Well Population				DEVELOPMENT	PRODUCTION	
YEAR	Western	Central	Eastern	Total	Western	Central	Eastern	Total	Western	Central	Eastern	Total	30 trips/well/day 60 days	0.17 trips/well/day 365 days	TOTAL TRIPS
2014	36,058	497	17,388	53,943	36,058	497	17,388	53,943	36,058	497	17,388	53,943			
2015	1,880	103	947	2,930	2,545	139	1,282	3,965	37,071	551	17,897	55,519	26,072	9,438	35,510
2016	1,883	103	948	2,935	2,548	139	1,283	3,971	38,044	565	18,367	56,975	26,110	9,686	35,796
2017	1,886	103	950	2,939	2,552	139	1,285	3,977	39,019	578	18,837	58,434	26,149	9,934	36,083
2018	1,889	103	951	2,943	2,556	139	1,287	3,983	39,995	592	19,308	59,895	26,188	10,182	36,370
2019	1,892	103	953	2,948	2,560	139	1,289	3,989	40,973	605	19,779	61,358	26,227	10,431	36,658
2020	1,895	103	954	2,952	2,564	139	1,291	3,995	41,953	619	20,252	62,823	26,265	10,680	36,945
2021	1,898	103	956	2,956	2,568	139	1,293	4,000	42,934	632	20,725	64,291	26,304	10,930	37,234
2022	1,901	103	957	2,961	2,572	139	1,295	4,006	43,917	646	21,199	65,762	26,343	11,179	37,522
2023	1,904	103	958	2,965	2,576	139	1,297	4,012	44,901	659	21,674	67,234	26,382	11,430	37,812
2024	1,907	103	960	2,969	2,580	139	1,299	4,018	45,887	673	22,149	68,709	26,421	11,681	38,101
2025	1,910	103	961	2,974	2,584	139	1,301	4,024	46,875	686	22,625	70,186	26,459	11,932	38,391
2026	1,912	103	963	2,978	2,588	140	1,302	4,030	47,864	700	23,102	71,666	26,498	12,183	38,681
2027	1,915	103	964	2,982	2,592	140	1,304	4,036	48,854	714	23,580	73,148	26,537	12,435	38,972
2028	1,918	103	965	2,987	2,596	140	1,306	4,042	49,847	727	24,058	74,632	26,576	12,687	39,263
2029	1,921	103	967	2,991	2,600	140	1,308	4,048	50,840	741	24,538	76,119	26,614	12,940	39,555
2030	1,924	103	968	2,996	2,604	140	1,310	4,054	51,836	755	25,018	77,608	26,653	13,193	39,847
2031	1,927	103	970	3,000	2,608	140	1,312	4,059	52,833	768	25,498	79,099	26,692	13,447	40,139
2032	1,930	103	971	3,004	2,612	140	1,314	4,065	53,831	782	25,980	80,593	26,731	13,701	40,432
2033	1,933	103	972	3,009	2,615	140	1,316	4,071	54,831	796	26,462	82,089	26,769	13,955	40,725
2034	1,936	103	974	3,013	2,619	140	1,318	4,077	55,833	810	26,945	83,588	26,808	14,210	41,018
2035	1,939	103	975	3,017	2,623	140	1,320	4,083	56,836	824	27,429	85,088	26,847	14,465	41,312
BASE YEAR (2012)													9,863	9,170	19,033
													1,500 wells	53,943 wells	

B. Trip Distribution

For the purposes of this study, trip distribution represents the movement of oil and gas traffic between the well fields and the central metropolitan Bakersfield area. It was assumed that all oil and gas trips originate and terminate within the study area.

Oil and gas trips were assigned to roadways based on well field production rates, published AADT volumes and input from Kern County Roads Department staff regarding known well field access routes. Oil and gas trips for the year 2015 are shown in Figures 4a through 5b. The same for the year 2035 is shown in Figures 10a through 11b.

EXISTING AND FUTURE TRAFFIC

A. Existing Traffic

Traffic volumes fluctuate throughout the day, with peak periods generally occurring from 5:30 to 7:30 AM and 3:30 to 5:30 PM for the non-metropolitan regions of Kern County. Traffic impacts are typically evaluated for a one-hour peak period of traffic on the adjacent street system in both the morning and evening.

Existing weekday peak hour turning movement volumes were field measured at the study intersections in 2014. These volumes are shown in Figures 2a through 3b. It is important to note that existing traffic volumes are a combination of traffic generated by non-oil and gas (NOG) activities, as well as traffic generated by already existing oil and gas operations.

B. Future Traffic

Future traffic volumes, evaluated in this study, were developed for both, typical traffic volume growth and for oil and gas industry specific growth. These future traffic volume scenarios are referred to as “2035 % Growth Only” and “2035 NOG + O&G Projection” respectively.

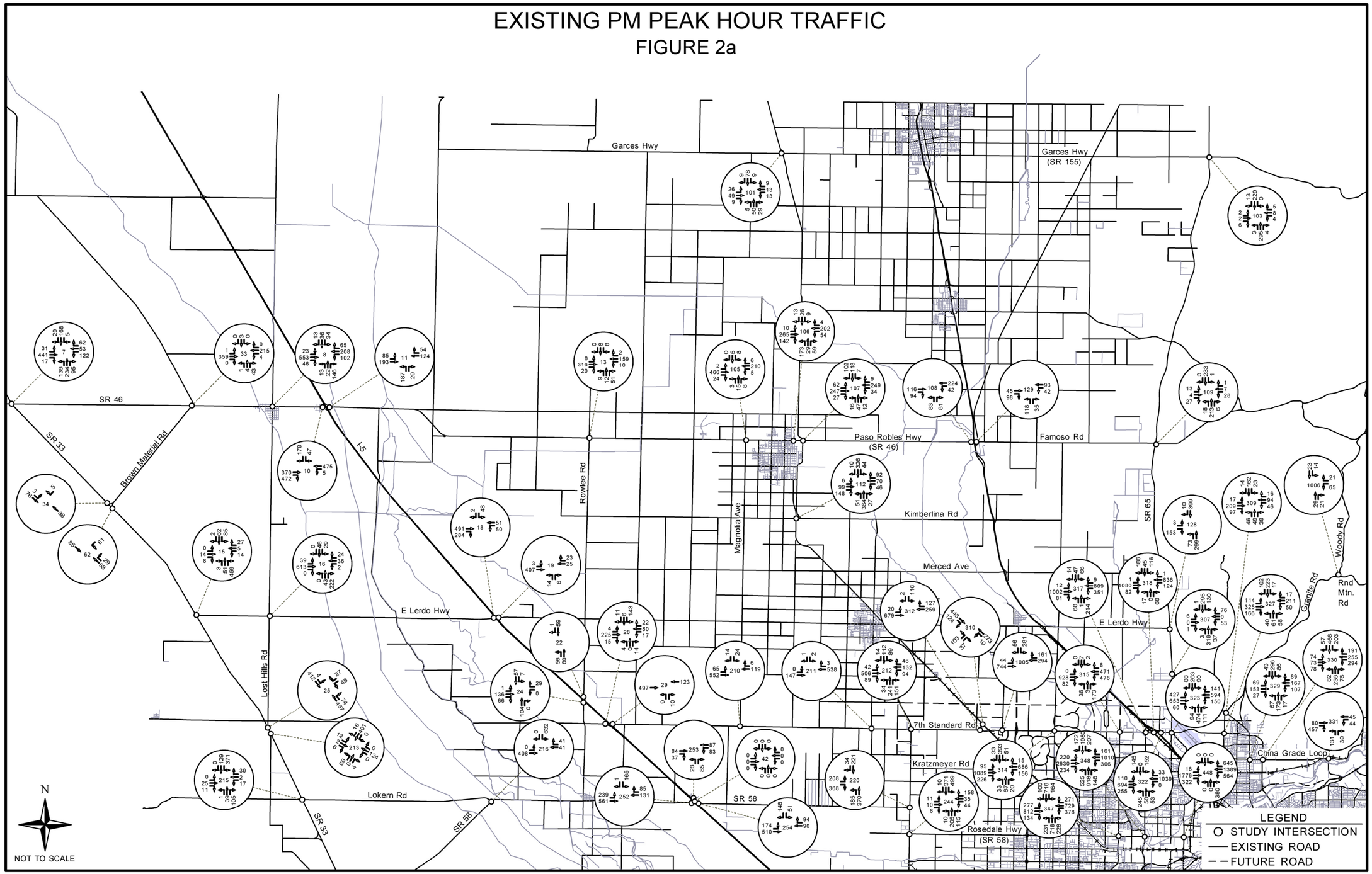
Future traffic is typically projected from the existing traffic volumes using growth rates based on Kern COG traffic models; however, these growth rates may not directly apply to oil and gas activity. For this reason, future traffic was also analyzed where oil and gas traffic volumes were projected independently. In order to do this, known oil and gas generated traffic volumes were subtracted from the existing traffic volumes, growth rates were then applied to each, and finally, the two volumes were recombined to obtain the “2035 NOG + O&G Projection” volume.

Growth rates for non-oil and gas growth projections range from approximately 0.5% to 2.5%. While an average annual growth rate of 0.76% was used for projected growth of oil and gas activity, the actual annual growth rates range from 0.72% to 0.81%.

Future weekday peak hour turning movement volumes are shown in Figures 8a through 9b.

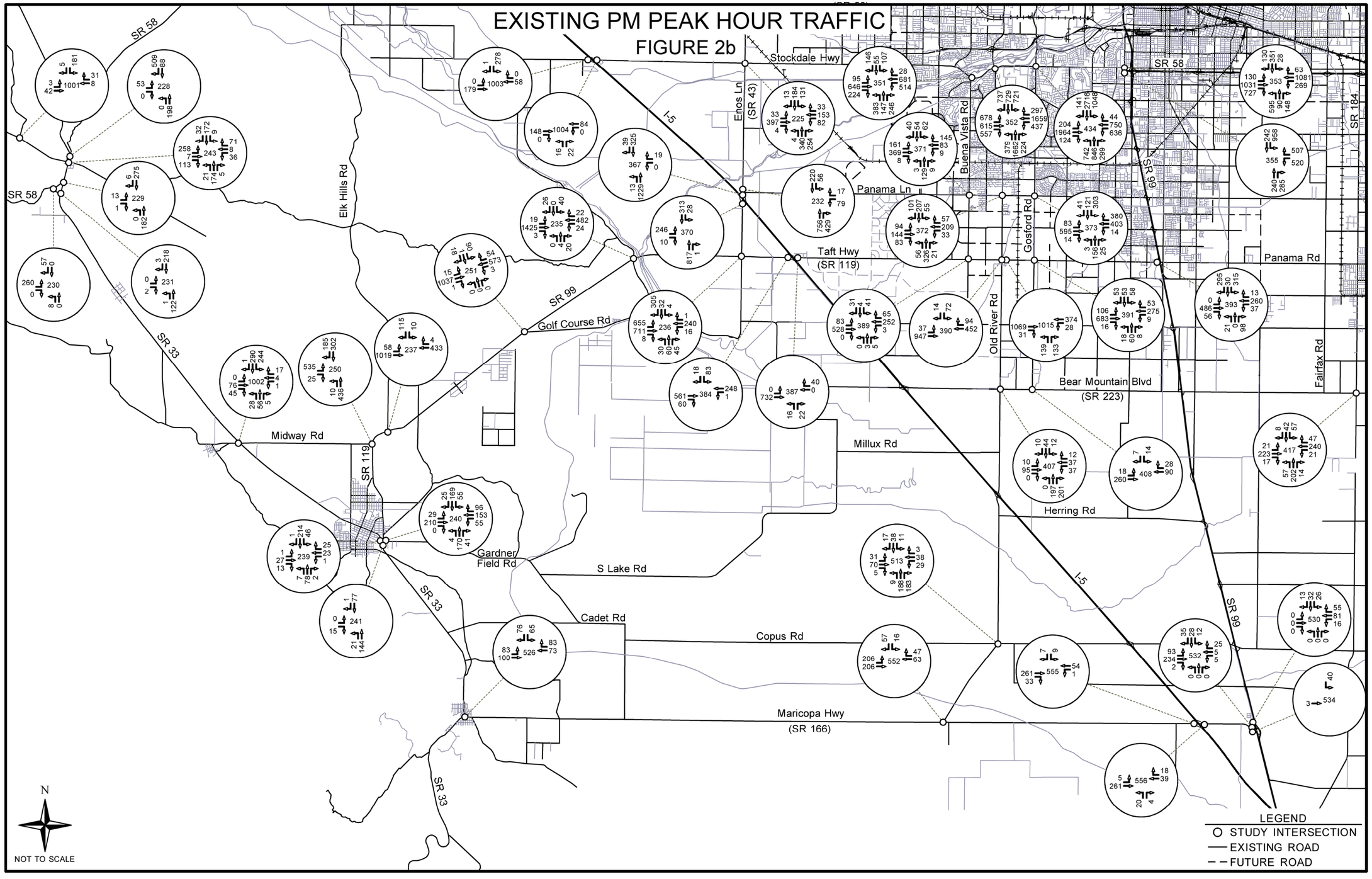
EXISTING PM PEAK HOUR TRAFFIC

FIGURE 2a



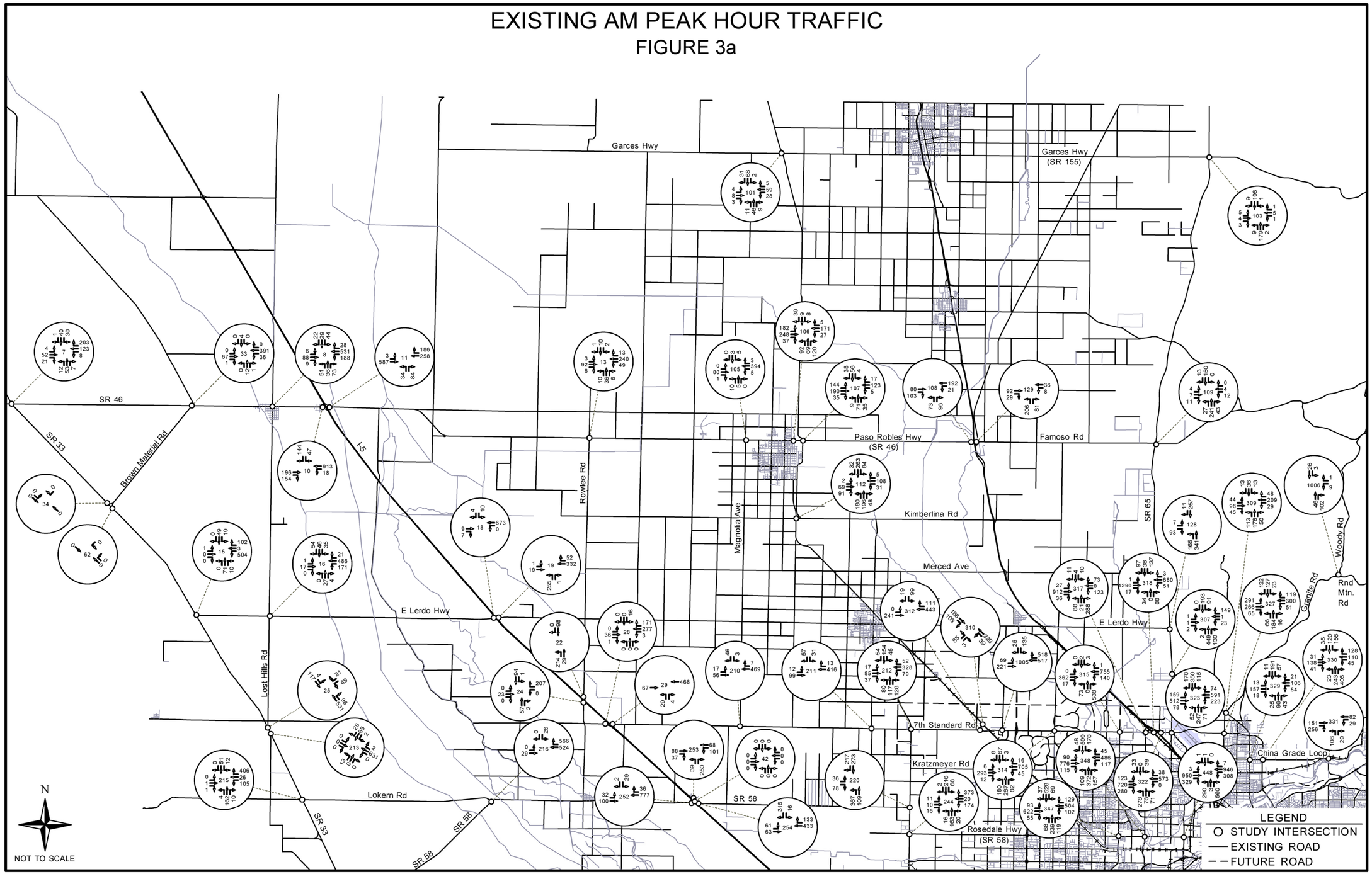
EXISTING PM PEAK HOUR TRAFFIC

FIGURE 2b



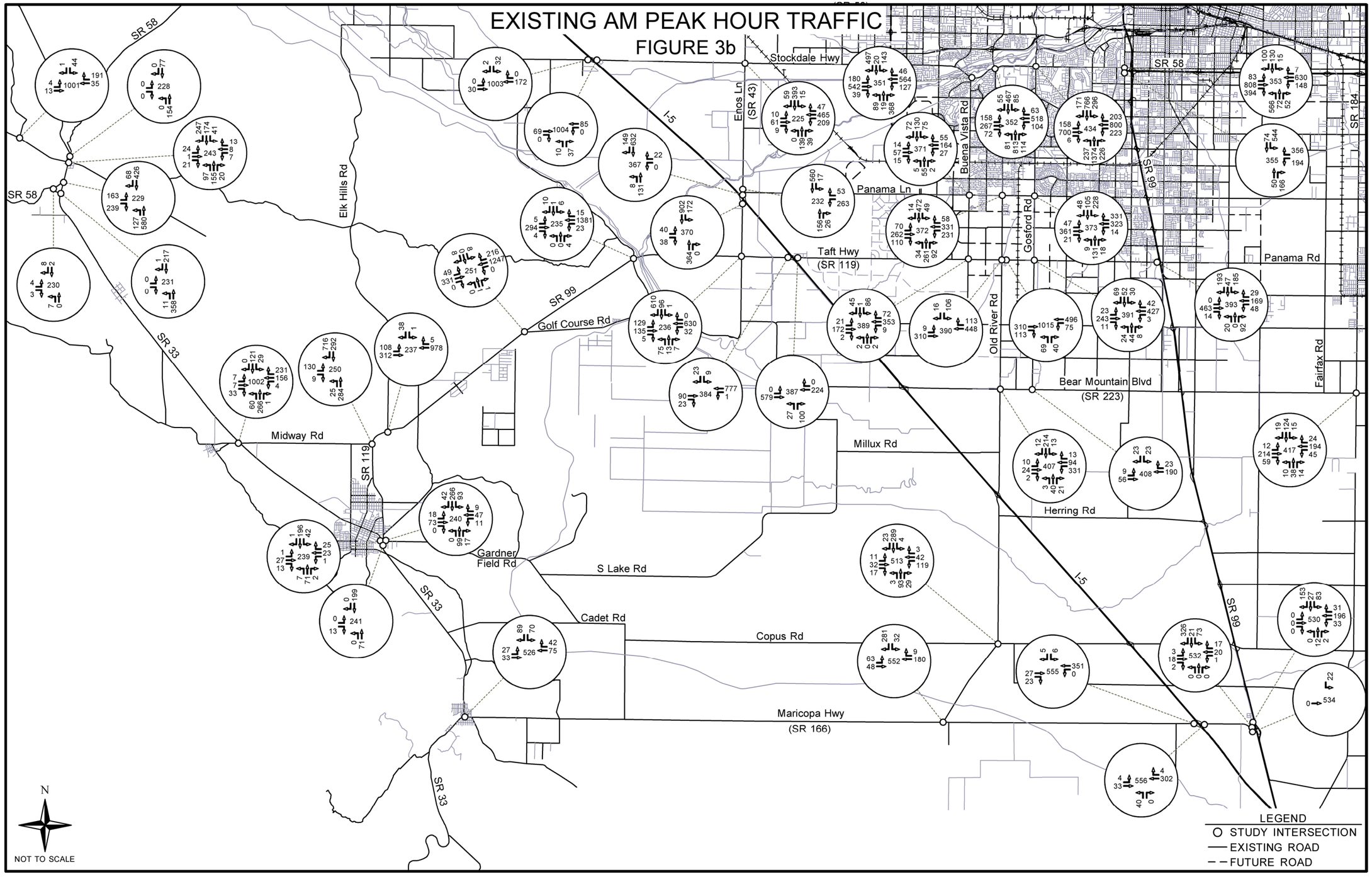
EXISTING AM PEAK HOUR TRAFFIC

FIGURE 3a



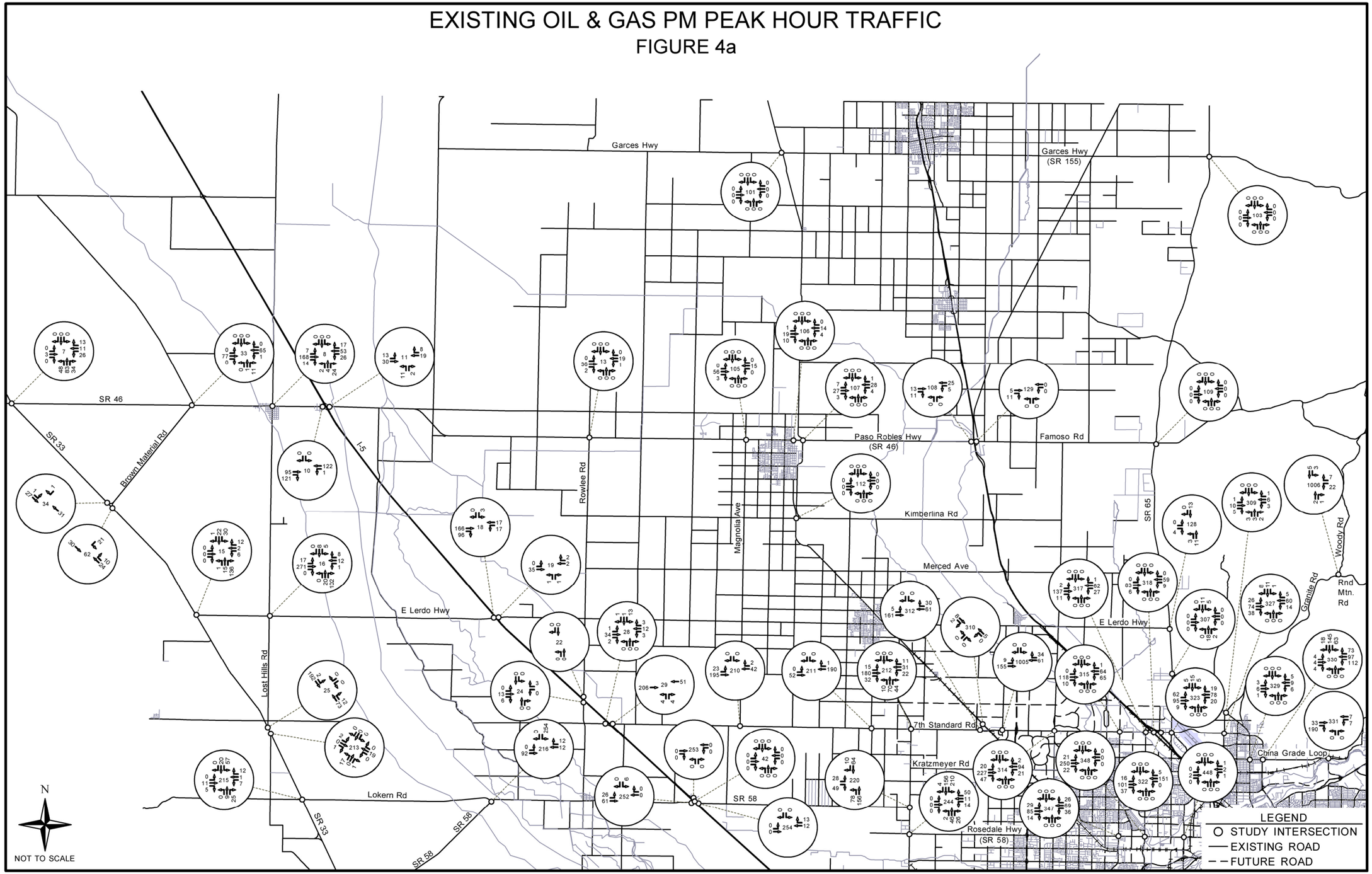
EXISTING AM PEAK HOUR TRAFFIC

FIGURE 3b



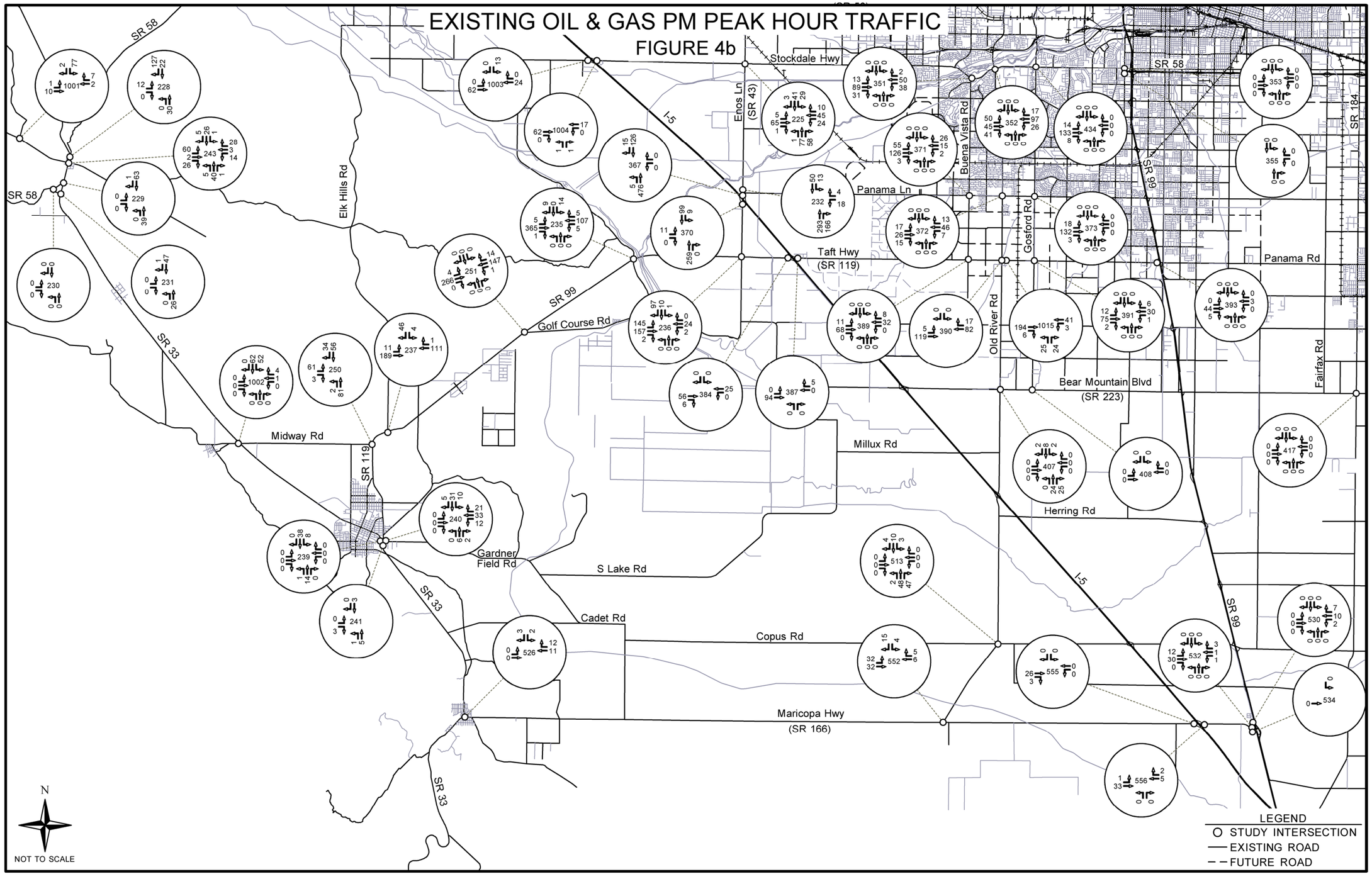
EXISTING OIL & GAS PM PEAK HOUR TRAFFIC

FIGURE 4a



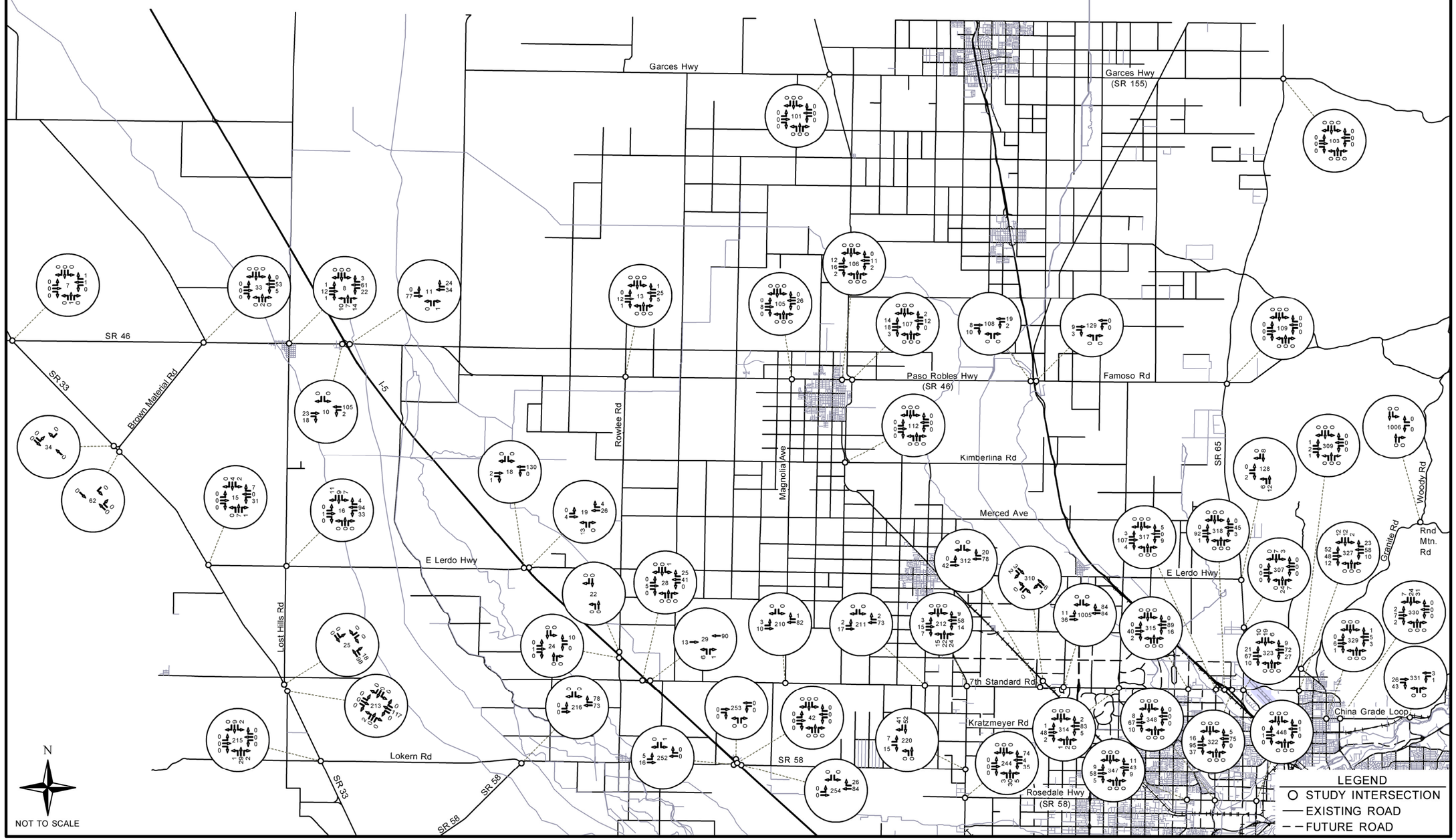
EXISTING OIL & GAS PM PEAK HOUR TRAFFIC

FIGURE 4b



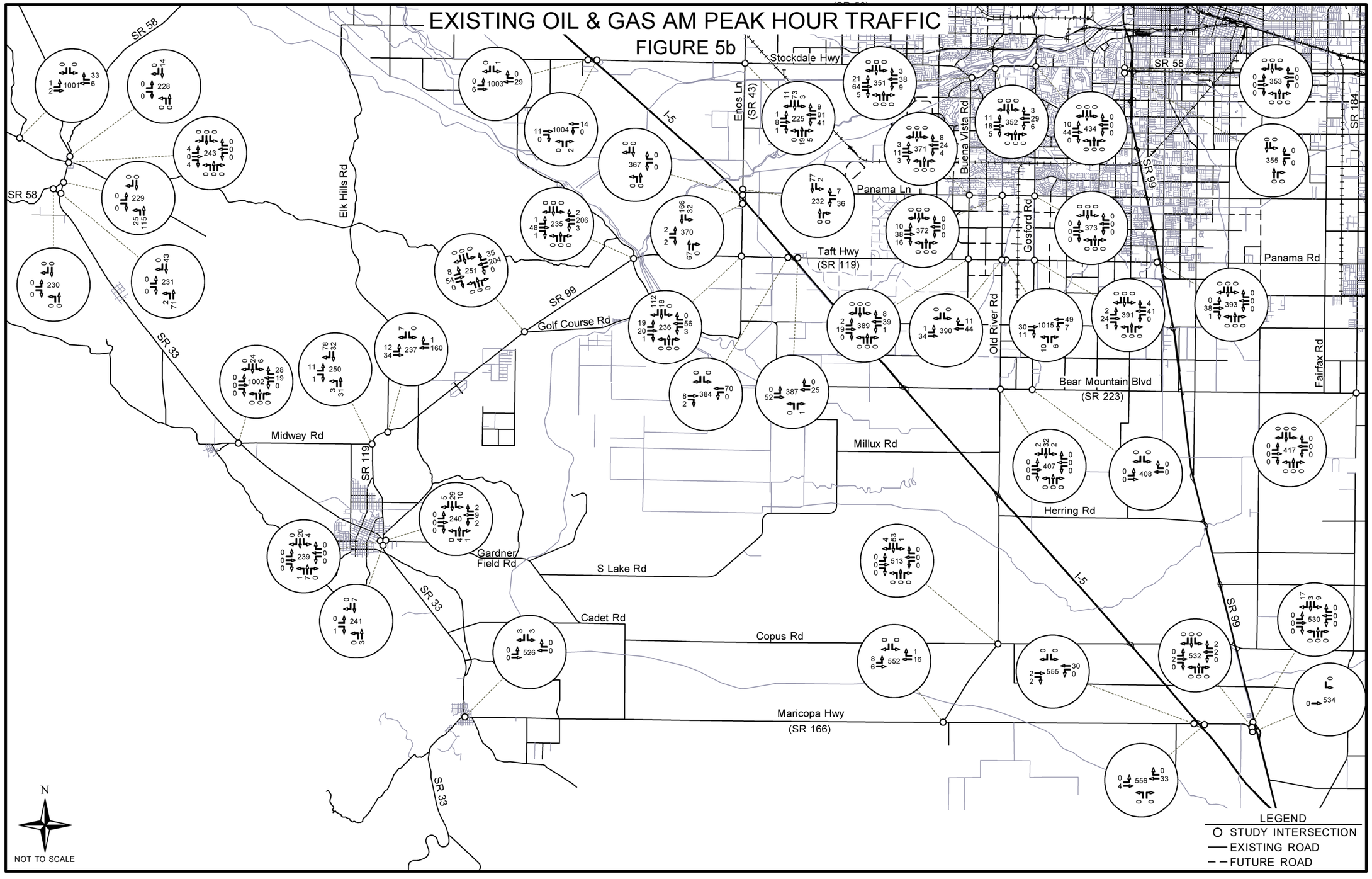
EXISTING OIL & GAS AM PEAK HOUR TRAFFIC

FIGURE 5a



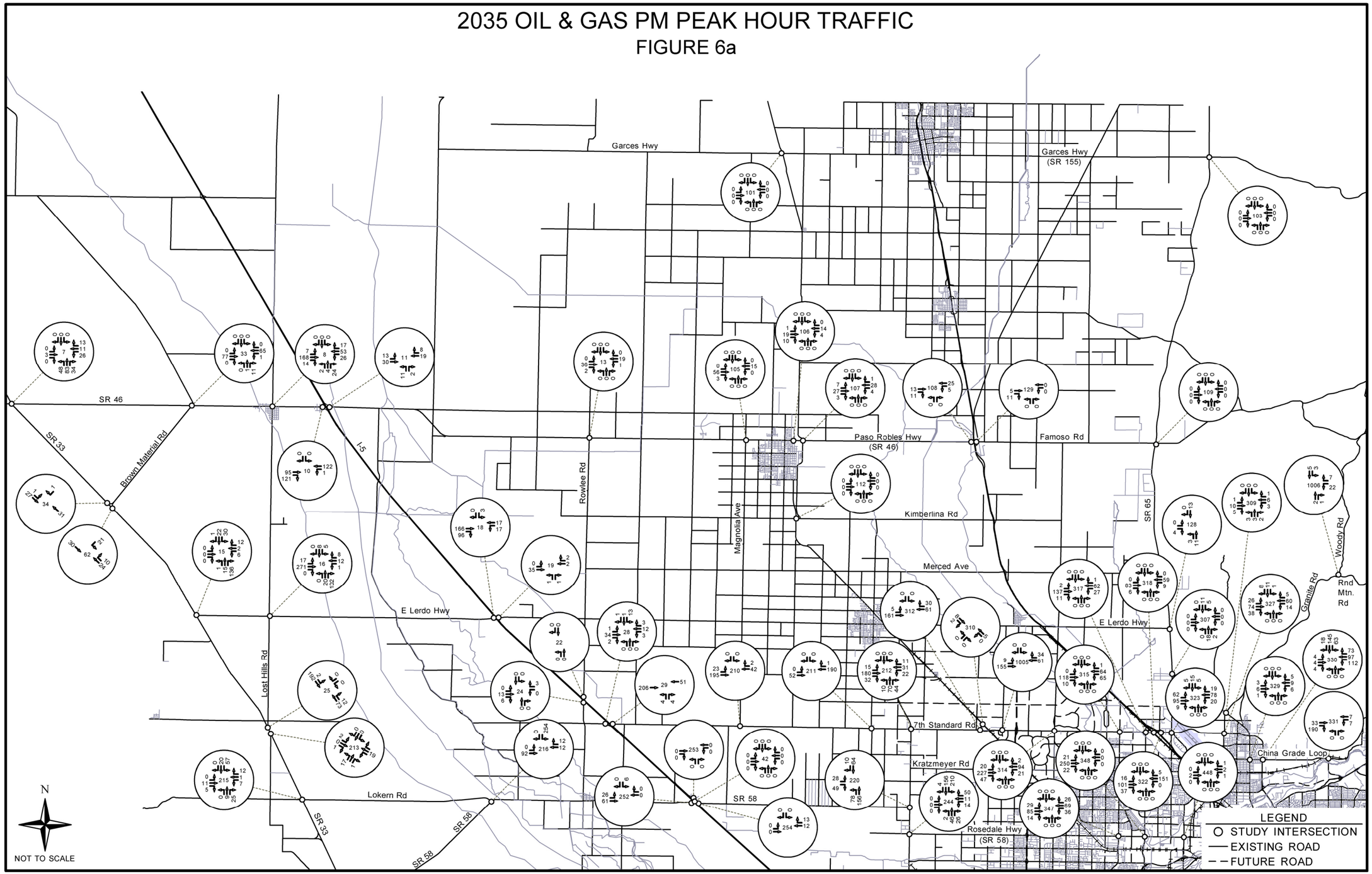
EXISTING OIL & GAS AM PEAK HOUR TRAFFIC

FIGURE 5b



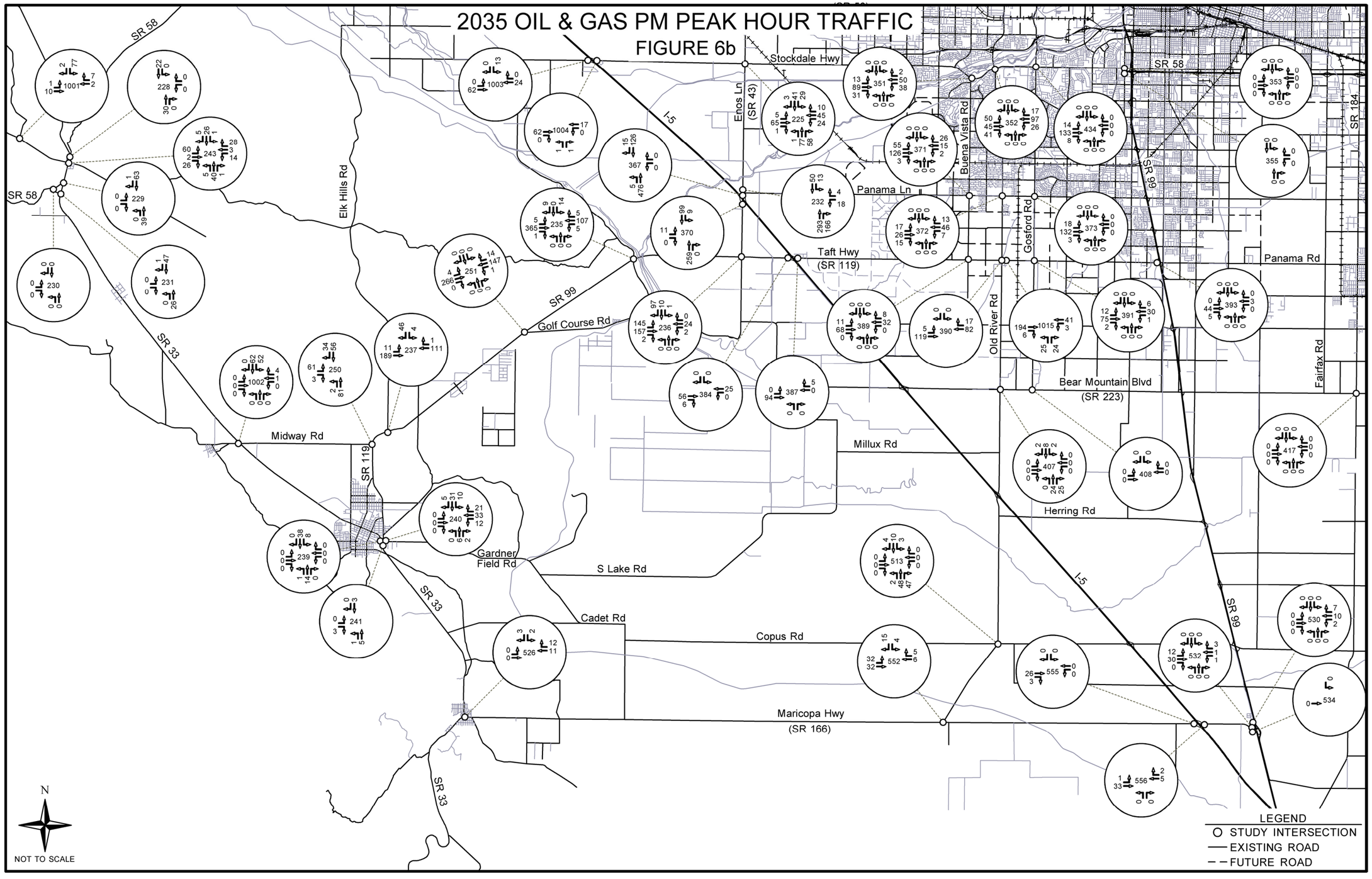
2035 OIL & GAS PM PEAK HOUR TRAFFIC

FIGURE 6a



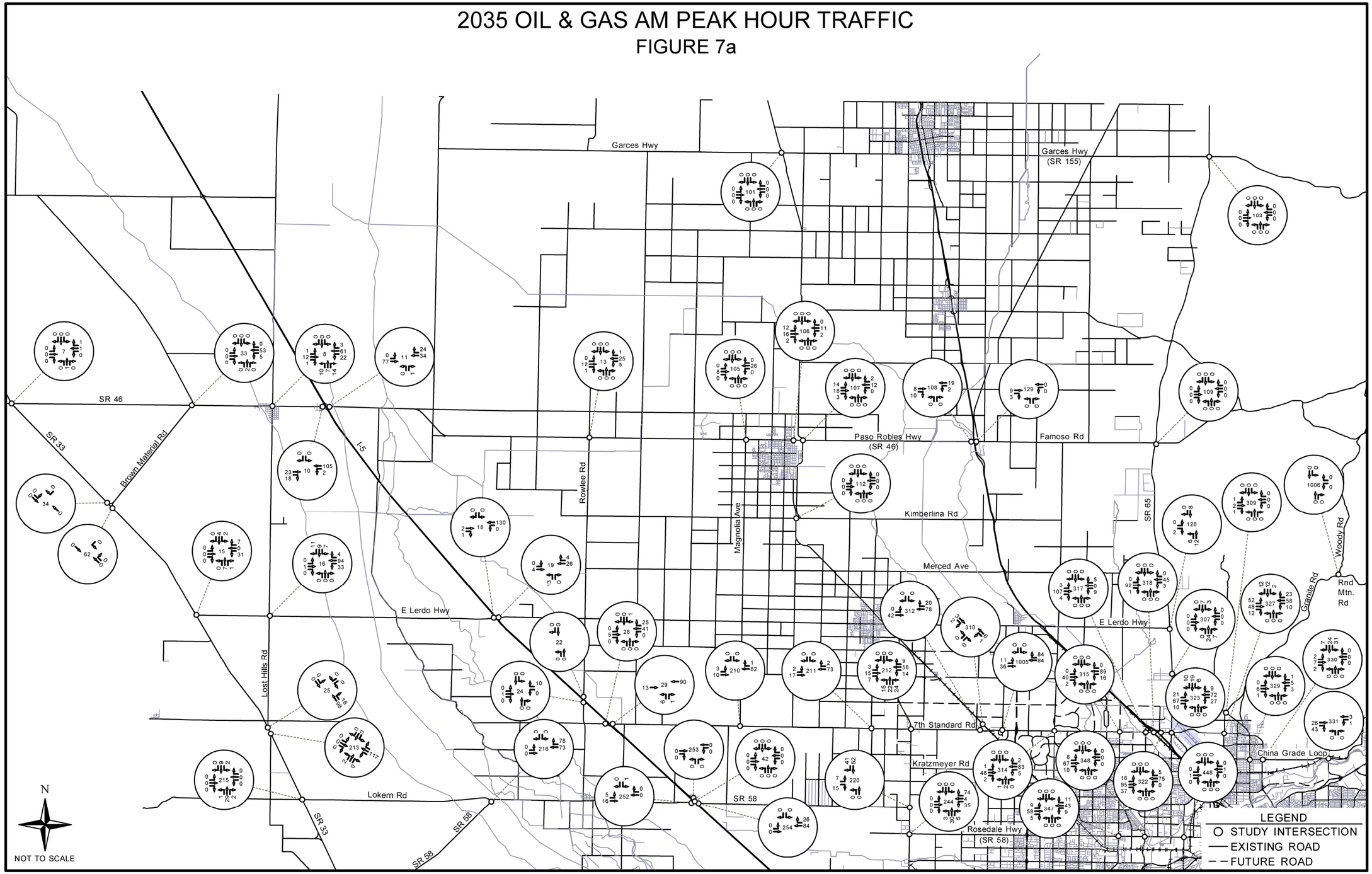
2035 OIL & GAS PM PEAK HOUR TRAFFIC

FIGURE 6b



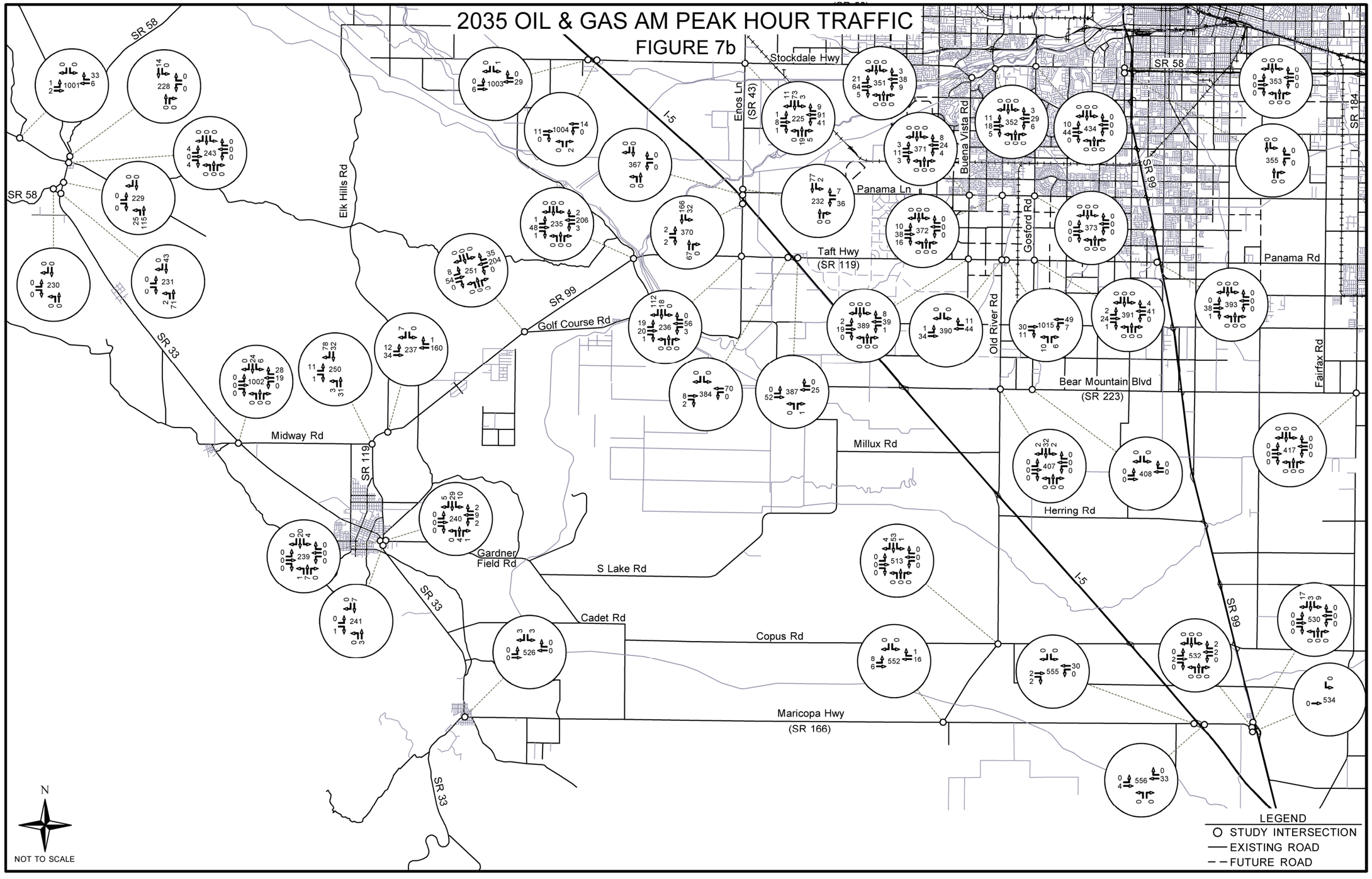
2035 OIL & GAS AM PEAK HOUR TRAFFIC

FIGURE 7a



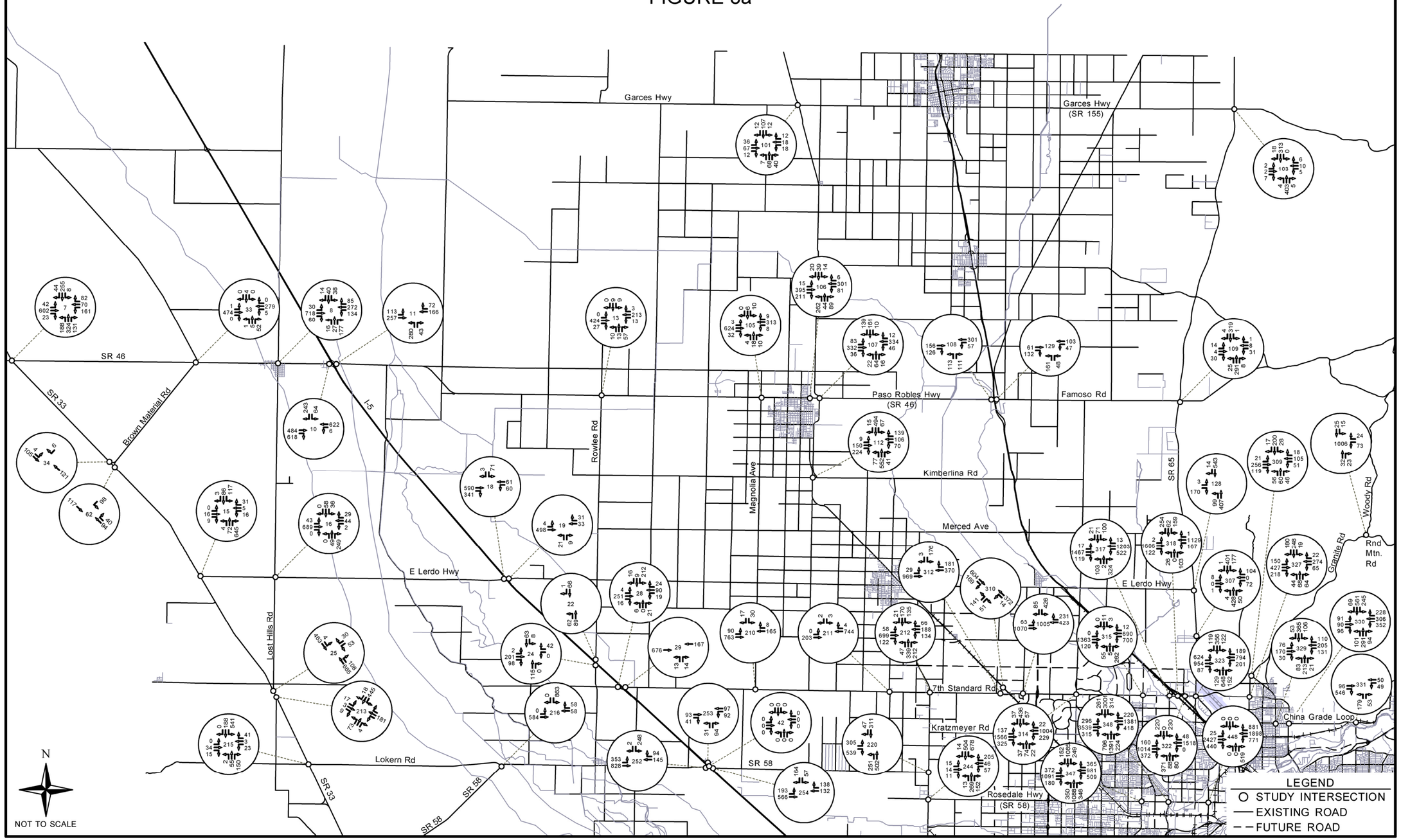
2035 OIL & GAS AM PEAK HOUR TRAFFIC

FIGURE 7b



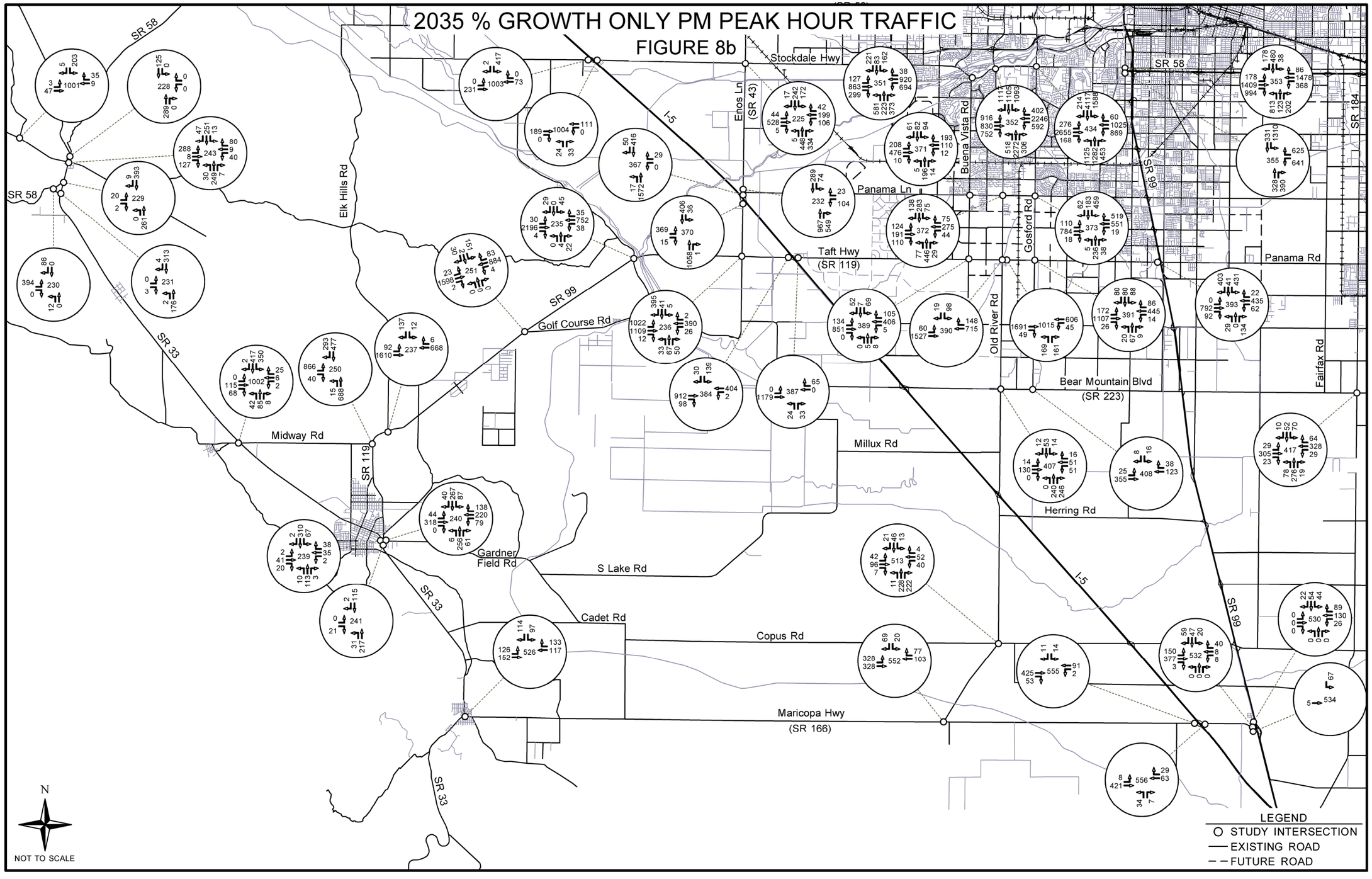
2035 % GROWTH ONLY PM PEAK HOUR TRAFFIC

FIGURE 8a



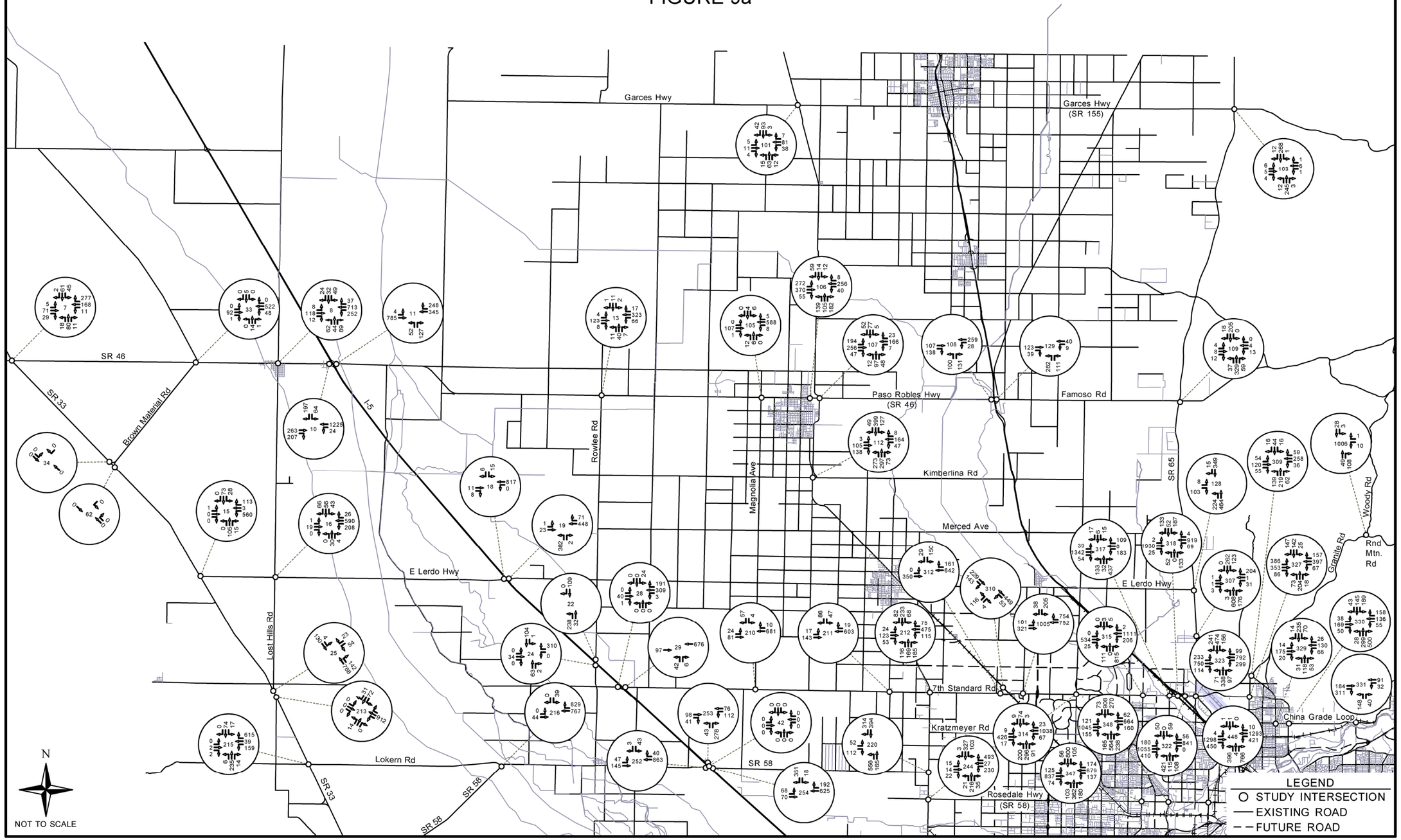
2035 % GROWTH ONLY PM PEAK HOUR TRAFFIC

FIGURE 8b



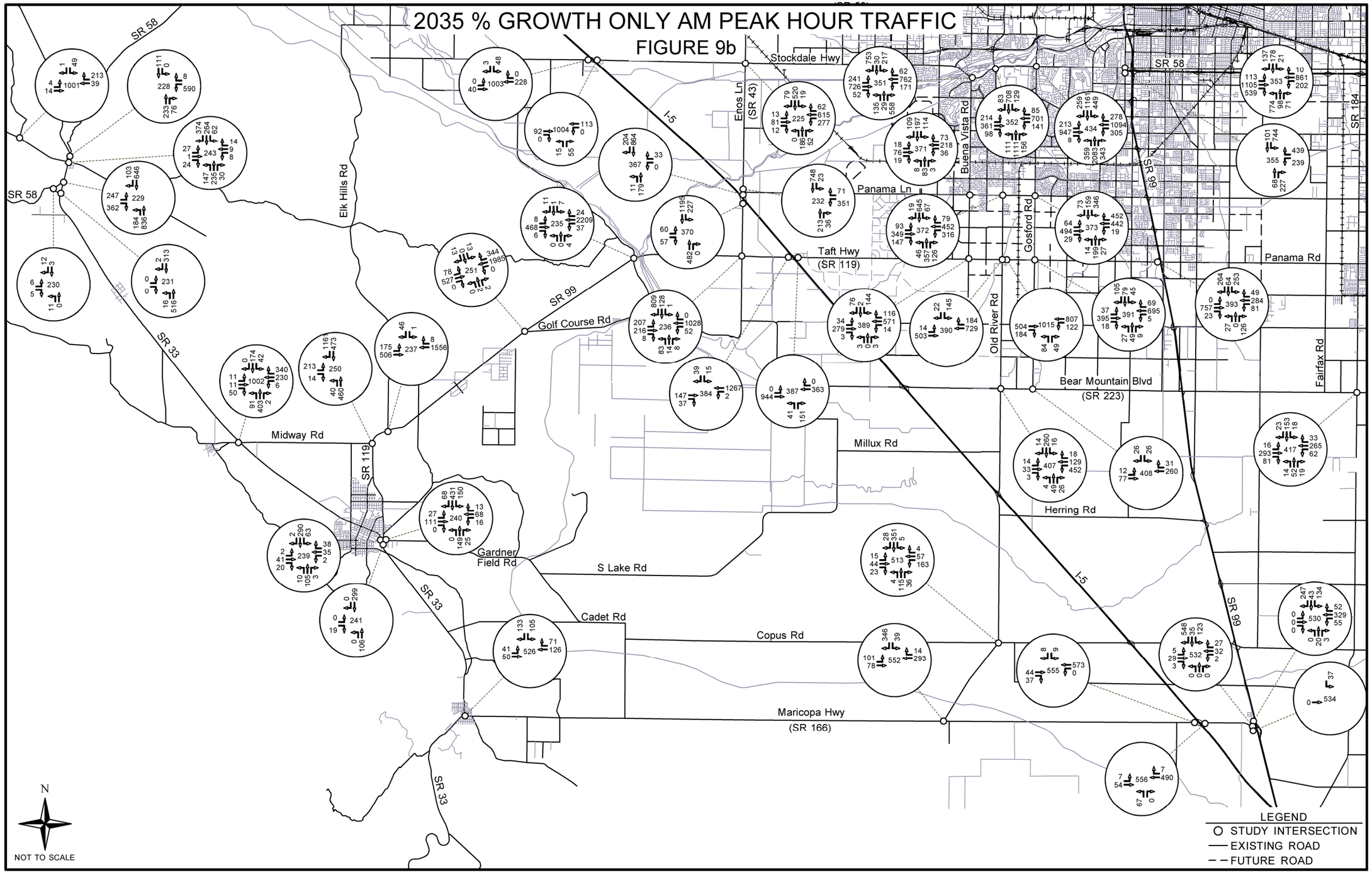
2035 % GROWTH ONLY AM PEAK HOUR TRAFFIC

FIGURE 9a



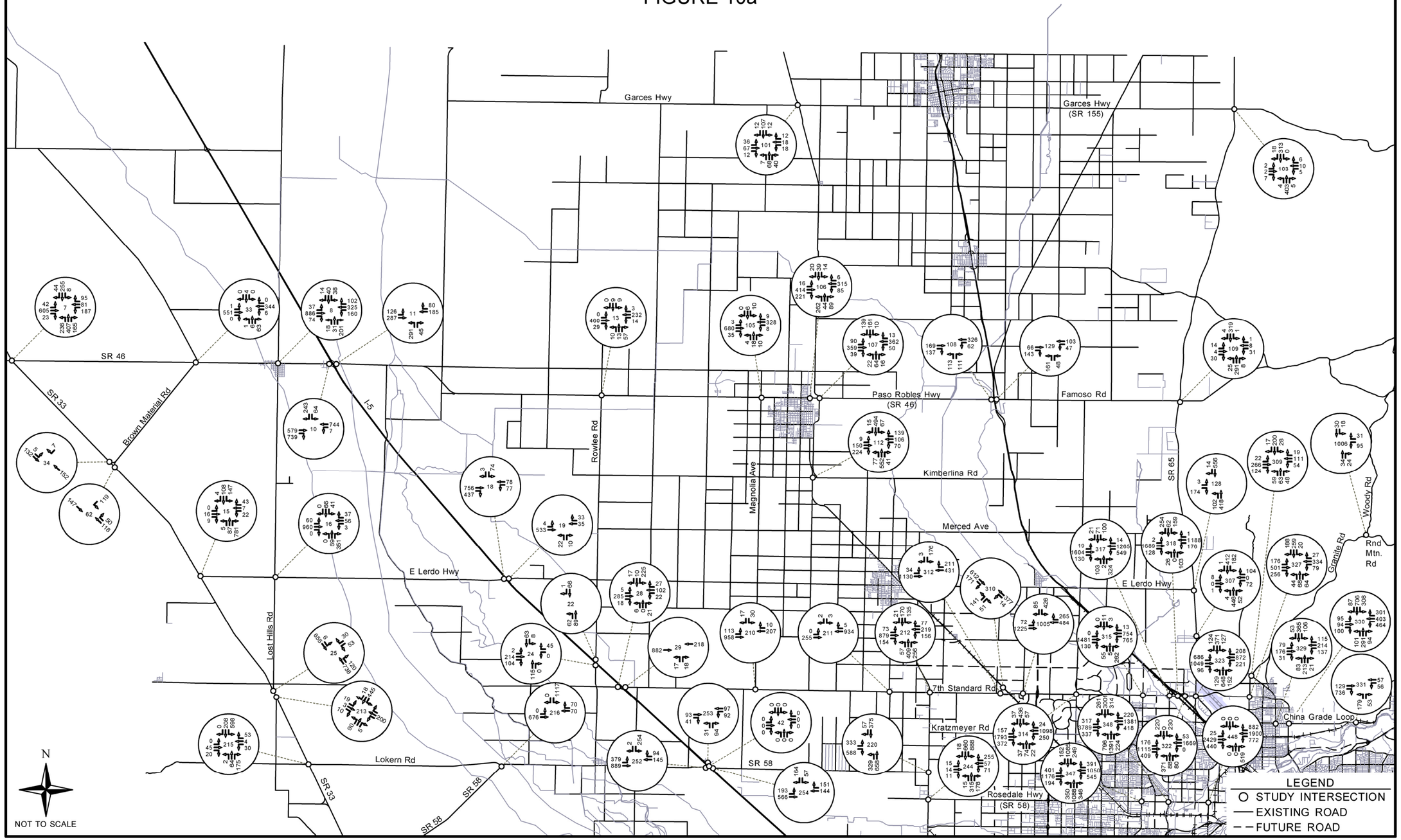
2035 % GROWTH ONLY AM PEAK HOUR TRAFFIC

FIGURE 9b



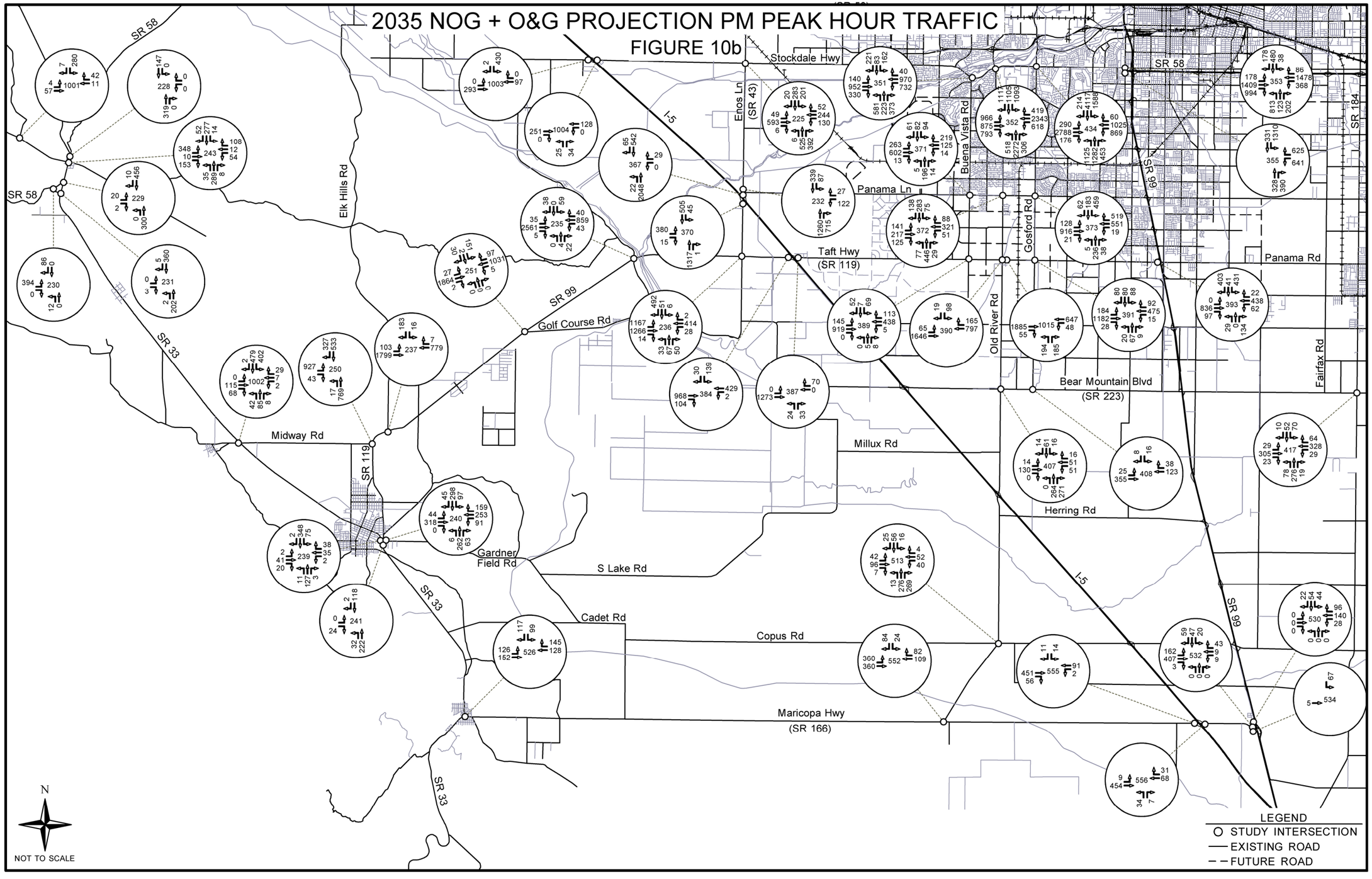
2035 NOG + O&G PROJECTION PM PEAK HOUR TRAFFIC

FIGURE 10a



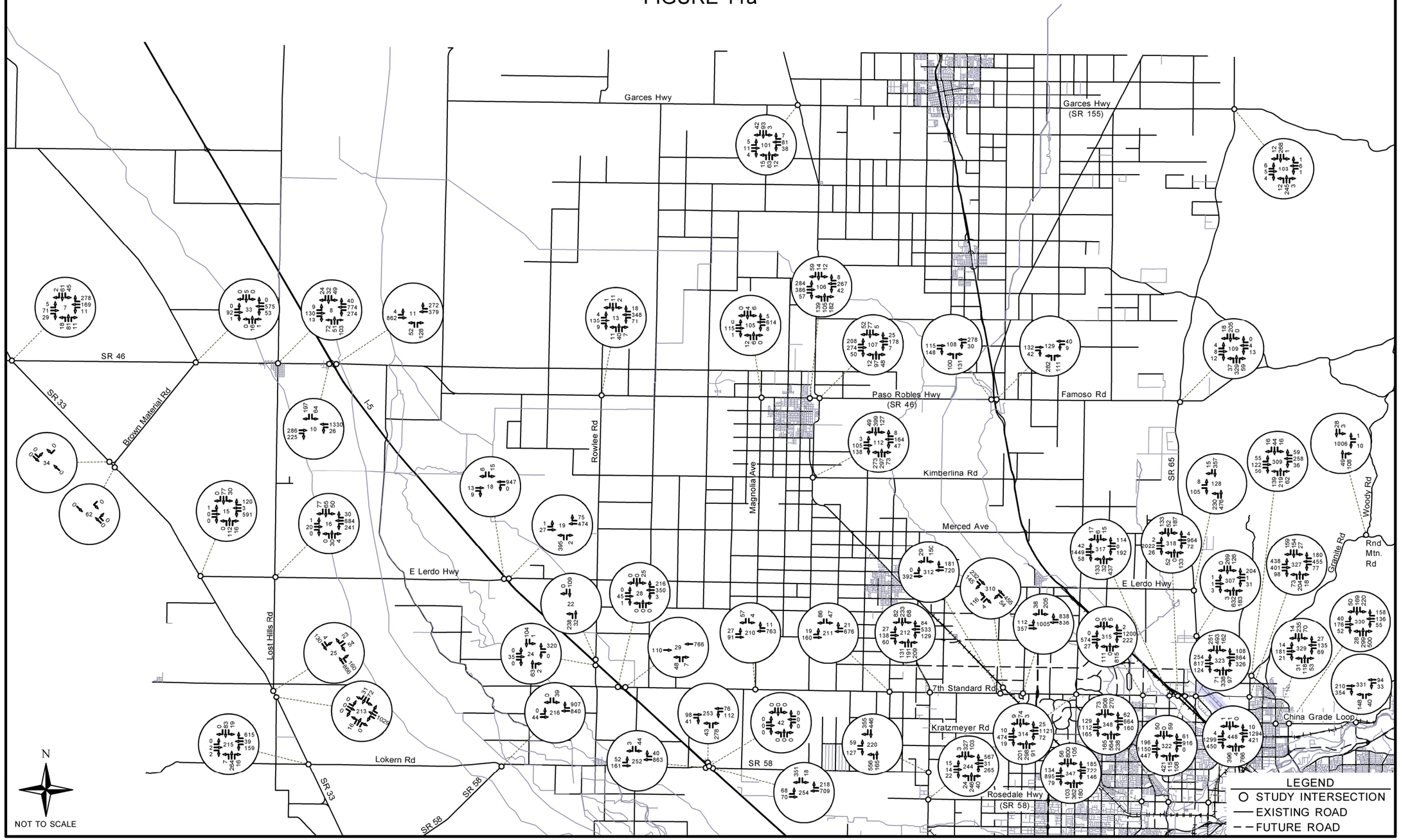
2035 NOG + O&G PROJECTION PM PEAK HOUR TRAFFIC

FIGURE 10b



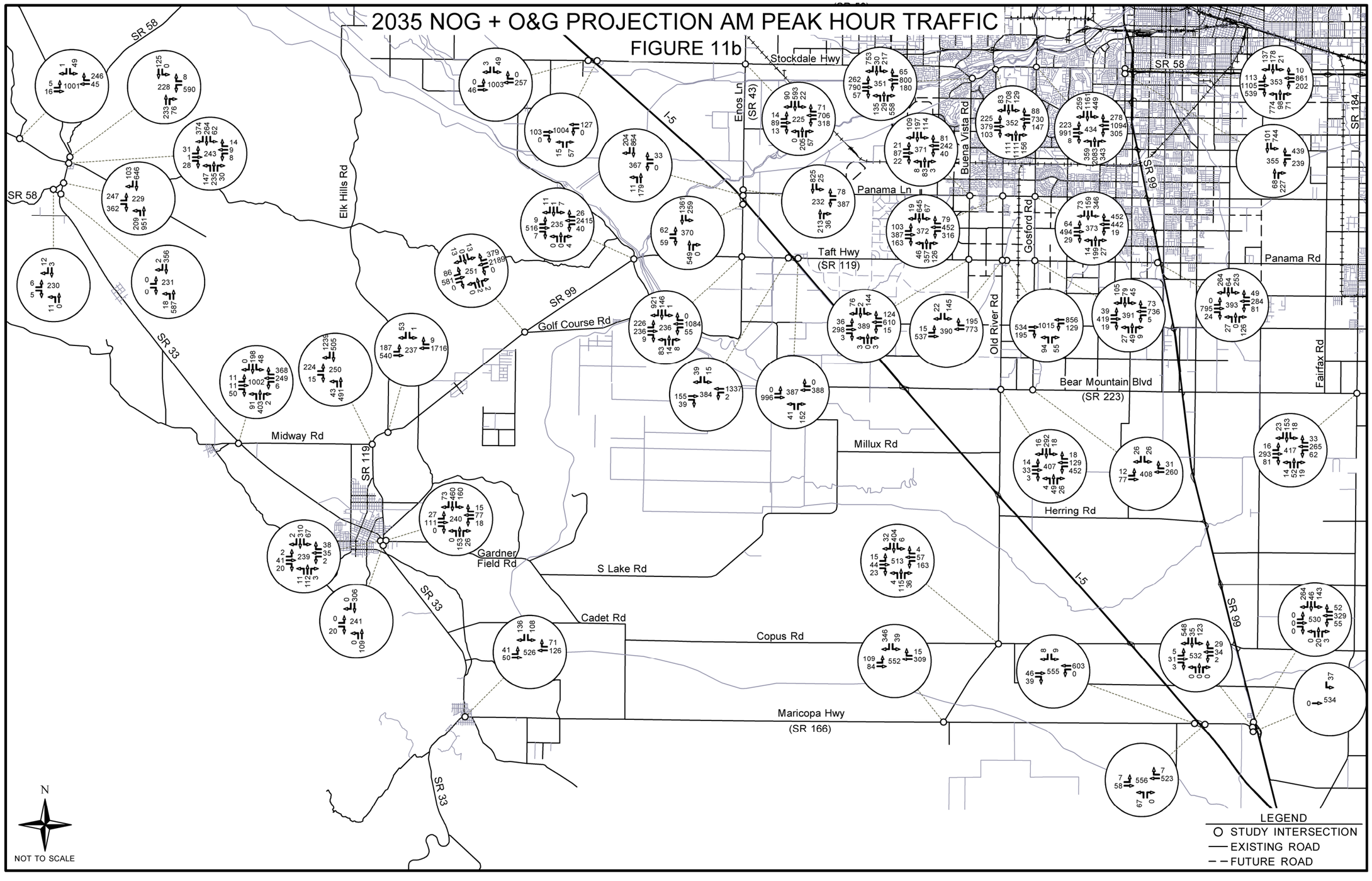
2035 NOG + O&G PROJECTION AM PEAK HOUR TRAFFIC

FIGURE 11a



2035 NOG + O&G PROJECTION AM PEAK HOUR TRAFFIC

FIGURE 11b



TRAFFIC IMPACT ANALYSIS

An analyses of the roadway network utilized by oil and gas generated traffic within Kern County was conducted for this study. The analysis included intersection levels of service, roadway levels of service, and pavement conditions. While pavement conditions were analyzed for all roadways within the study area, intersection and roadway levels of service were not analyzed where improvements are already included as part of the Metropolitan Bakersfield Regional Transportation Impact Fee (RTIF) program Phase IV proposed improvements.

A. Intersection Level of Service

A capacity analysis of the study intersections was conducted using Synchro 8 software from Trafficware, which utilizes the 2010 Highway Capacity Manual (HCM) analysis methodology. The analysis was performed for the following AM and PM traffic scenarios:

- Existing Traffic
- 2035 % Growth Only
- 2035 NOG + O&G Projection

Criteria for unsignalized and signalized intersection level of service (LOS) are summarized in the tables below.

LEVEL OF SERVICE CRITERIA

UNSIGNALIZED INTERSECTIONS

Level of Service	Average Control Delay (sec/veh)	Expected Delay to Minor Street Traffic
A	≤ 10	Little or no delay
B	> 10 and ≤ 15	Short traffic delays
C	> 15 and ≤ 25	Average traffic delays
D	> 25 and ≤ 35	Long traffic delays
E	> 35 and ≤ 50	Very long traffic delays
F	> 50	Extreme delays

LEVEL OF SERVICE CRITERIA

SIGNALIZED INTERSECTIONS

Level of Service	Average Control Delay (sec/veh)	Volume-to-Capacity Ratio
A	≤ 10	< 0.60
B	> 10 and ≤ 20	0.61 - 0.70
C	> 20 and ≤ 35	0.71 - 0.80
D	> 35 and ≤ 55	0.81 - 0.90
E	> 55 and ≤ 80	0.91 - 1.00
F	> 80	> 1.00

The minimum level of service goal for roadways within the Bakersfield and Kern County metropolitan areas is LOS "C." The minimum level of service goal for roadways within the non-metropolitan region of Kern County is LOS "D," and for Caltrans' facilities, the minimum level of service goal is "C."

Based on this level of service grading system, two performance criteria are generally used for determining whether a traffic forecast would cause a significant impact and therefore require mitigation. First, a significant impact is found where the addition of project traffic causes the level of service of an intersection to drop below the minimum level of service goal. Second, a significant impact is found if an intersection operates below the minimum level of service goal in the base year prior to the addition of

project traffic, and the added project traffic lowers the level of service below its pre-project status.

Levels of service for the unsignalized intersections in the study are presented in Table 2. Levels of service for the signalized intersections in the study are presented in Table 3.

Table 2

Unsignalized Intersection Level of Service

AM & PM Peak Hour

#	Intersection	Movement	AM Peak Hour			PM Peak Hour		
			2015	2035 % Growth Only	2035 NOG + O&G Projection	2015	2035 % Growth Only	2035 NOG + O&G Projection
13	Rowlee Rd & Paso Robles Hwy (SR 46)	NB	B	B	B	B	B	B
15	West Side Hwy (SR 33) & Lerdo Hwy	WB	D	F	F	B	B	C
16	Lost Hills Rd & Lerdo Hwy	Overall Intersection	D	E	E	E	E	E
18	SR 5 SB Off Ramp & Lerdo Hwy	SB	B	C	C	A	A	A
19	SR 5 NB On Ramp & Lerdo Hwy	NB	A	A	A	A	A	A
22	Rowlee Rd & I-5 NB On Ramp	EB	A	A	A	A	A	A
24	Rowlee Rd & Frontage Rd	EB	A	A	A	A	A	A
25	West Side Hwy (SR 33) & Lost Hills Rd	WB	C	D	D	C	D	F
28	SR 5 SB Off Ramp & 7th Standard Rd	SB	A	A	A	A	A	B
29	SR 5 NB On Ramp & 7th Standard Rd	NB	A	A	A	A	A	A
33	Brown Material Rd & Paso Robles Hwy (SR 46)	NB SB	A A	A A	A A	A A	A A	A A
34	West Side Hwy (SR 33) & Brown Material Rd	Overall Intersection	A	A	A	A	A	A
62	West Side Hwy (SR 33) & West Side Hwy (SR 33)	WB	A	A	A	A	A	A
101	Central Valley Hwy (SR 43) & Garces Hwy (SR 155)	EB WB	B B	B B	B B	B B	B B	B B
103	Porterville Hwy (SR 65) & Garces Hwy (SR 155)	EB EB	B B	B B	B B	B B	B C	B C
105	Magnolia Ave & Paso Robles Hwy (SR 46)	NB SB	B B	C C	C C	C C	C D	C D
107	Central Valley Hwy (SR 43) & Paso Robles Hwy (SR 46)	NB SB	C C	E D	F E	D D	F F	F F
108	Golden State Hwy (SR 99) SB Ramps & Paso Robles Hwy (SR 46)	NB	B	B	B	B	C	C
109	Porterville Hwy (SR 65) & Paso Robles Hwy (SR 46)	EB WB	B B	B C	B C	B B	B C	B C

Table 2 Continued

Unsignalized Intersection Level of Service

AM & PM Peak Hour

#	Intersection	Movement	AM Peak Hour			PM Peak Hour		
			2015	2035 % Growth Only	2035 NOG + O&G Projection	2015	2035 % Growth Only	2035 NOG + O&G Projection
128	SR 65 & Lerdo Hwy	EB	B	B	C	B	C	C
129	Golden State Hwy (SR 99) NB Ramps & Paso Robles Hwy (SR 46)	NB	B	B	B	B	B	B
210	Magnolia Ave & 7th Standard Rd	SB	B	C	C	C	C	E
211	Shafter Ave & 7th Standard Rd	SB	B	C	C	B	C	C
212	Enos Ln (SR 43) & 7th Standard Rd	Overall Intersection	D	F	F	F	F	F
213	West Side Hwy (SR 33) & West Side Hwy (SR 33)	NB	A	A	A	A	B	B
215	West Side Hwy (SR 33) & Lokern Rd	EB WB	A C	B F	B F	D C	F F	F F
216	Lokern Rd & McKittrick Hwy (SR 58)	SB	C	D	E	F	F	F
220	Enos Ln (SR 43) & McKittrick Hwy (SR 58)	Overall Intersection	C	F	F	F	F	F
225	Enos Ln (SR 43) & Stockdale Hwy	Overall Intersection	F	F	F	F	F	F
228	West Side Hwy (SR 33) & McKittrick Hwy (SR 58)	EB	A	A	A	B	A	A
229	McKittrick Hwy (SR 58) & Santa Maria Valley Hwy (SR 58)	EB	F	F	F	B	B	C
230	Santa Maria Valley Hwy (SR 58) & Santa Maria Valley Hwy (SR 58)	Overall Intersection	A	A	A	A	C	B
231	McKittrick Hwy (SR 58) & Santa Maria Valley Hwy (SR 58)	EB	A	A	A	A	B	B
232	Enos Ln (SR 43) & Panama Ln	WB	F	F	F	F	F	F
235	Tupman Rd & Taft Hwy (SR 119)	NB SB	B F	B F	B F	F F	F C	F F
237	Elk Hills Rd & Taft Hwy (SR 119)	SB	C	F	F	C	E	F
239	McKittrick Hwy (SR 58) & Main St	Overall Intersection	A	B	B	A	B	B
241	Taft Hwy (SR 119) & SR 33	EB	A	A	A	A	A	A
243	McKittrick Hwy (SR 58) & Reserve Rd	EB WB	C C	E D	E D	E B	F C	F C
244	Enos Ln (SR 43) & Rosedale Hwy (SR 58)	Overall Intersection	C	E	F	E	E	F
251	Tupman Rd & Taft Hwy (SR 119)	NB SB	E F	F F	F F	A F	A F	A F
253	Tracy Ave & Tracy Ave	NE	B	B	B	A	A	A
254	Tracy Ave & McKittrick Hwy (SR 58)	SE	C	F	F	D	F	F
307	SR 65 & James Rd	NW	C	D	D	B	B	B
309	James Rd & Granite Rd	Overall Intersection	B	C	C	B	C	C
327	Airport Dr & 7th Standard Rd	Overall Intersection	E	F	F	D	E	F
331	China Grade Loop & Round Mountain Rd	NB	B	C	C	C	C	D

Table 2 Continued

Unsignalized Intersection Level of Service

AM & PM Peak Hour

#	Intersection	Movement	AM Peak Hour			PM Peak Hour		
			2015	2035 % Growth Only	2035 NOG + O&G Projection	2015	2035 % Growth Only	2035 NOG + O&G Projection
367	Enos Ln (SR 43) & SR 5 NB Off Ramp	WB	A	A	A	A	A	A
370	Enos Ln (SR 43) & SR 5 SB Off Ramp	EB WB	A A	A A	A A	A A	A A	A A
384	SR 5 Off Ramp & Taft Hwy (SR 119)	NB	A	A	A	A	A	A
387	SR 5 NB On Ramp & Taft Hwy (SR 119)	NB	C	F	F	C	E	F
389	Buena Vista Rd & Taft Hwy (SR 119)	NB SB	B C	C F	C F	C D	E F	E F
390	Old River Rd & Taft Hwy (SR 119)	SB	C	F	F	F	F	F
407	Old River Rd & Bear Mountain Blvd (SR 223)	Overall Intersection	C	E	E	B	B	C
408	Gosford Rd & Bear Mountain Blvd (SR 223)	SB	B	B	B	B	B	B
513	Old River Rd & Copus Rd	EB WB	B C	C D	C E	C B	C C	C C
526	SR 33 & Maricopa Hwy SR 166	Overall Intersection	A	A	A	A	A	B
530	Mettler Frontage Rd & SR 99 SB Off Ramp	Overall Intersection	A	A	A	A	A	A
532	Mettler Frontage Rd & Maricopa Hwy SR 166	NB SB	A B	A C	A C	A B	A C	A C
534	SR 99 SB On Ramp & SR 99 SB On Ramp	SB	A	A	A	A	A	A
552	Old River Rd & Maricopa Hwy SR 166	SB	B	C	C	B	C	C
555	I-5 SB Ramps & Maricopa Hwy SR 166	SB	B	B	B	A	A	A
556	I-5 NB Ramps & Maricopa Hwy SR 166	NB	B	C	C	B	B	C
1001	Franco West Rd & Reward Rd	SB	A	A	B	B	B	B
1002	SR 33 & Midway Rd	EB WB	C E	F F	F F	D B	F F	F F

Table 3

Signalized Intersection Level of Service

AM & PM Peak Hour

#	Intersection	AM Peak Hour			PM Peak Hour		
		2015	2035 % Growth Only	2035 NOG + O&G Projection	2015	2035 % Growth Only	2035 NOG + O&G Projection
7	West Side Hwy (SR 33) & Paso Robles Hwy (SR 46)	B	B	B	C	D	C
8	Lost Hills Rd & Paso Robles Hwy (SR 46)	B	C	C	C	C	E
10	SR 5 SB Off Ramp & Paso Robles Hwy (SR 46)	A	B	B	C	C	B
11	SR 5 NB On Ramp & Paso Robles Hwy (SR 46)	A	B	B	C	C	B
42	NB I5 off ramp & West Side Fwy (SR 5)	A	A	A	A	A	A
106	Central Valley Hwy (SR 43) & Paso Robles Hwy (SR 46)	C	C	C	C	C	C
112	Central Valley Hwy (SR 43) & Kimberlina Rd	C	D	D	D	D	D
236	Enos Ln (SR 43) & Taft Hwy (SR 119)	F	F	F	E	F	F
240	Taft Hwy (SR 119) & Gardner Field Rd	C	C	A	D	D	B
250	Taft Hwy (SR 119) & Midway Rd	B	C	D	D	F	F
252	SB I5 on off ramp & McKittrick Hwy (SR 58)	C	C	C	A	A	B
310	Galpin St & Central Valley Hwy (SR 43)	D	D	D	D	D	E
312	Galpin St & 7th Standard Rd	A	B	C	A	B	B
314	Zerker Rd & 7th Standard Rd	C	C	D	D	E	F
315	Calloway Rd & 7th Standard Rd	F	F	F	E	F	F
317	Coffee Rd & 7th Standard Rd	A	D	E	C	F	F
318	SR 99 SB Off Ramp & 7th Standard Rd	B	E	F	B	C	C
322	Quinn Rd & 7th Standard Rd	C	C	C	C	C	C
323	SR 65 & 7th Standard Rd	C	D	D	D	E	E
329	Chester Ave & China Grade Loop	D	D	D	D	D	D
330	Manor St & China Grade Loop	D	E	E	D	D	E
347	Calloway Dr & Rosedale Hwy (SR 58)	C	D	D	F	F	F
348	Coffee Rd & Rosedale Hwy (SR 58)	D	D	D	F	F	F
351	Buena Vista Rd & Stockdale Hwy	E	F	F	D	E	E
352	Calloway Dr & Stockdale Hwy	D	D	C	F	F	F
353	Real Rd & Stockdale Hwy	C	D	D	E	F	F
355	Real Rd & SR 58	C	D	D	E	F	F
371	Buena Vista Rd & Panama Ln	C	C	D	B	D	D
372	Old River Rd & Panama Ln	D	F	F	D	D	D
373	Gosford Rd & Panama Ln	C	C	D	C	E	F
391	Gosford Rd & Taft Hwy (SR 119)	C	C	C	C	E	F
393	SR 99 SB Off Ramp & Taft Hwy (SR 119)	A	A	A	A	A	A
417	Morning Dr & Bear Mountain Blvd (SR 223)	A	A	A	A	A	A
434	Coffee Rd & Stockdale Hwy	D	F	F	F	F	F
448	Mohawk Dr & Rosedale Hwy (SR 58)	E	F	F	F	F	F
1005	Zachary Ave & 7th Standard Rd	A	A	A	B	B	B

B. Roadway Capacity

The volume-to-capacity ratios for the roadways within the study area were calculated with published annual average daily traffic (AADT) information and future projected traffic. Where current AADT data was not available, the most current year's data was projected out to the existing year using an appropriate growth rate for the specific roadway. AADT volumes are shown in Table 4. AADT volumes are also shown graphically in Figures 12 through 16.

The Circulation Element of the Metropolitan Bakersfield General Plan lists the following daily traffic capacities for various types of roadways.

Roadway Class & Number of Lanes	Ultimate Capacity
8-lane freeway	187,500 vehicles
6-lane freeway	140,625 vehicles
4-lane freeway	93,750 vehicles
6-lane expressway	75,000 vehicles
6-lane arterial	60,000 vehicles
4-lane arterial	40,000 vehicles
4-lane collector	30,000 vehicles
2-lane collector	15,000 vehicles

A volume-to-capacity ratio (v/c) of greater than 0.80 corresponds to a LOS of less than C, as defined in the Highway Capacity Manual.

The minimum level of service goal for roadways within the Bakersfield and Kern County metropolitan areas is LOS "C." The minimum level of service goal for roadways within the non-metropolitan region of Kern County is LOS "D," and for

Caltrans' facilities, the minimum level of service goal is "C." A significant impact is found where project traffic reduces the LOS to below the minimum level of service goal, or where the pre-existing condition of the roadway is below the minimum level of service goal, and the LOS degrades below the pre-existing level of service with the addition of the project.

The volume-to-capacity ratios calculated for the study roadways are shown in Table 4. The volume-to-capacity ratios are also shown graphically in Figures 17 through 19.

Table 4
Roadway Capacity

Street	Existing	2035 O&G	Existing NOG	KCOG 2035	2035 NOG	2035+ Project	Existing Capacity	Mitigated Capacity	v/c(Ex) 2014	v/c(Ex) 2035	v/c(Ex) 2035+Proj	v/c(Mit) 2035+Proj
25 Hill Rd: Wood St - South St	271[2]	1573	64	1088	87	1660	15000	-	0.02	0.01	0.11	-
7th Standard Rd: Wagon Wheel Rd - Lost Hills Rd	1769[2]	1500	269		299	1799	15000	-	0.12	0.02	0.12	-
7th Standard Rd: Lost Hills Rd - Main Drain Rd	312[2]	0	312	15350	346	346	15000	-	0.02	0.02	0.02	-
7th Standard Rd: Main Drain Rd - Corn Camp Rd	312[2]	0	312		346	346	15000	-	0.02	0.02	0.02	-
7th Standard Rd: Corn Camp Rd - Buttonwillow Dr	1270[2]	1730	462		513	2243	15000	-	0.08	0.03	0.15	-
7th Standard Rd: Buttonwillow Dr - Interstate 5	4486[2]	1730	3678	12988	4084	5814	15000	-	0.30	0.27	0.39	-
7th Standard Rd: Interstate 5 - Brandt Rd	4486[2]	6810	1304	15350	1976	8786	15000	-	0.30	0.13	0.59	-
7th Standard Rd: Brandt Rd - Beech Ave	5819[2]	6810	2637	9100	3997	10807	15000	-	0.39	0.27	0.72	-
7th Standard Rd: Beech Ave - SR 43 (Enos Ln)	5819[2]	6894	2598	92400	3938	10832	15000	-	0.39	0.26	0.72	-
7th Standard Rd: SR 43 (Enos Ln) - Santa Fe Way	5828[2]	3867	4021	23795	6094	9961	15000	-	0.39	0.41	0.66	-
7th Standard Rd: Santa Fe Way - Zerker Rd	7597[2]	4290	5592	23074	8476	12766	40000	-	0.19	0.21	0.32	-
7th Standard Rd: Zerker Rd - Verdugo Ln	12813[2]	4340	10785	30069	16346	20686	40000	-	0.32	0.41	0.52	-
7th Standard Rd: Verdugo Ln - Calloway Dr	13944[2]	4340	11916	36132	18061	22401	40000	-	0.35	0.45	0.56	-
7th Standard Rd: Calloway Dr - Coffee Rd	12813[2]	4340	10785	56404	16346	20686	40000	-	0.32	0.41	0.52	-
7th Standard Rd: Coffee Rd - Golden State Hwy	24435[2]	4340	22407	79343	33962	38302	40000	60000	0.61	**0.85**	**0.96**	0.64
A St: Terrace Dr - S 10th St	4367[2]	0	4367	3378	4849	4849	15000	-	0.29	0.32	0.32	-
Adohr Rd: Freeborn Rd - Tupman Rd	250[2]	0	250		278	278	15000	-	0.02	0.02	0.02	-
Alfred Harrell Hwy: China Grade Loop - Fairfax Rd	4594[2]	0	4594	4599	5101	5101	40000	-	0.11	0.13	0.13	-
Alfred Harrell Hwy: Fairfax Rd - Hart Park Ent	4947[2]	0	4947	2561	5493	5493	40000	-	0.12	0.14	0.14	-
Alfred Harrell Hwy: Hart Park Ent - Morning Dr	990[2]	0	990	2026	1099	1099	15000	-	0.07	0.07	0.07	-
Alfred Harrell Hwy: Morning Dr - Lake Ming Rd	1623[2]	0	1623	1837	1802	1802	15000	-	0.11	0.12	0.12	-
Alfred Harrell Hwy: Lake Ming Rd - SR 178	2011[2]	0	2011	3874	2233	2233	15000	-	0.13	0.15	0.15	-
Bear Mtn Blvd: Coles Levee Rd - Interstate 5	1529[2]	0	1529	385	1698	1698	15000	-	0.10	0.11	0.11	-
Bitterwater Valley Rd: S of SR 46 - SR 46	200[2]	101	153	76	170	271	15000	-	0.01	0.01	0.02	-
Brite Rd: Buttonwillow Dr - Wasco Wy	1769[2]	1654	996	4438	1106	2760	15000	-	0.12	0.07	0.18	-
Cadet Rd: SR 33 - Gardner Field Rd	934[2]	0	934	8106	1037	1037	15000	-	0.06	0.07	0.07	-
Cerro Noroeste Rd: SR 166 - Klipstein Canyon Rd	113[2]	0	113	3077	154	154	15000	-	0.01	0.01	0.01	-
China Grade Loop: Airport Dr - N Chester Ave	8772[2]	764	8415	1365	9344	10108	30000	-	0.29	0.31	0.34	-
China Grade Loop: N Chester Ave - Manor St	6206[2]	764	5849	6275	7208	7972	30000	-	0.21	0.24	0.27	-
China Grade Loop: Manor St - Oilfield Srv Rd	5788[2]	7636	2221		2737	10373	15000	-	0.39	0.18	0.69	-
China Grade Loop: Oilfield Srv Rd - Round Mountain Rd	5013[2]	7636	1446	4854	1782	9418	15000	-	0.33	0.12	0.63	-
China Grade Loop: Round Mountain Rd - Alfred Harrel Hwy	5547[2]	0	5547	11227	7583	7583	15000	-	0.37	0.51	0.51	-
Copus Rd: Basic School Rd - Old River Rd	1352[2]	0	1352	1488	1848	1848	15000	-	0.09	0.12	0.12	-
Copus Rd: Old River Rd - SR 99	3940[2]	0	3940	2029	5386	5386	15000	-	0.26	0.36	0.36	-
David Rd: SR 99 - S Wheeler Ridge Rd	1457[2]	0	1457	878	1618	1618	15000	-	0.10	0.11	0.11	-
Famoso Rd: SR 46 - Driver Rd	2238[2]	0	2238	4912	2485	2485	15000	-	0.15	0.17	0.17	-
Famoso Rd: Driver Rd - SR 65 (Porterville Hwy)	1145[2]	0	1145	899	1271	1271	15000	-	0.08	0.08	0.08	-

Table 4
Roadway Capacity
(Continued)

Street	Existing	2035 O&G	Existing NOG	KCOG 2035	2035 NOG	2035+ Project	Existing Capacity	Mitigated Capacity	v/c(Ex) 2014	v/c(Ex) 2035	v/c(Ex) 2035+Proj	v/c(Mit) 2035+Proj
Famoso Rd: SR 65 (Porterville Hwy) - Granite Rd	593[2]	22	583	779	647	669	15000	-	0.04	0.04	0.04	-
Garces Hwy: Corcoran Rd - SR 43 (Central Valley Hwy)	473[2]	0	473	11959	647	647	15000	-	0.03	0.04	0.04	-
Garces Hwy: SR 43 (Central Valley Hwy) - SR 99	12700[2]	0	12700	2742	17362	17362	15000	30000	**0.85**	**1.16**	**1.16**	0.58
Gardner Field Rd: SR 119 (Taft Hwy) - S Lake Rd	1426[2]	0	1426	1269	1583	1583	15000	-	0.10	0.11	0.11	-
Gardner Field Rd: S Lake Rd - Cadet Rd	610[2]	0	610		677	677	15000	-	0.04	0.05	0.05	-
Gardner Field Rd: Cadet Rd - Basic School Rd	635[2]	0	635	8106	705	705	15000	-	0.04	0.05	0.05	-
Hazelton St: Western Minerals Rd - SR 166 (Maricopa Hwy)	264[2]	479	40		44	523	15000	-	0.02	0.00	0.03	-
Herring Rd: Old River Rd - SR 99	273[2]	0	273	3587	373	373	15000	-	0.02	0.02	0.02	-
James Rd: SR 65 (Porterville Hwy) - Oilfields Rd	3400[2]	864	2996	6328	3692	4556	15000	-	0.23	0.25	0.30	-
James Rd: Oilfields Rd - Granite Rd	3682[2]	185	3595	6328	4430	4615	15000	-	0.25	0.30	0.31	-
James Rd: Granite Rd - Petrol Rd	3500[2]	0	3500	3207	4313	4313	15000	-	0.23	0.29	0.29	-
James Rd: Petrol Rd - N Chester Ave	3500[2]	0	3500	3207	4313	4313	15000	-	0.23	0.29	0.29	-
Kecks Rd: SR 46 - Barker Rd	73[2]	0	73	1672	81	81	15000	-	0.00	0.01	0.01	-
Kimberlina Rd: Bell Rd - SR 43 (Central Valley Hwy)	4810[2]	0	4810	8185	5928	5928	15000	-	0.32	0.40	0.40	-
Kimberlina Rd: SR 43 (Central Valley Hwy) - Shafter Ave	5241[2]	0	5241	8185	6459	6459	15000	-	0.35	0.43	0.43	-
Kimberlina Rd: Shafter Ave - SR 99	5241[2]	256	5122	8185	6312	6568	15000	-	0.35	0.42	0.44	-
Lerdo Hwy: SR 33 - Lost Hills Rd	2081[2]	3524	435	74	483	4007	7500	-	0.28	0.06	0.53	-
Lerdo Hwy: Lost Hills Rd - Interstate 5	3226[2]	3524	1580	4266	1947	5471	7500	-	0.43	0.26	0.73	-
Lerdo Hwy: Interstate 5 - Rowlee Rd	3415[2]	690	3093	27219	4228	4918	15000	-	0.23	0.28	0.33	-
Lerdo Hwy: Rowlee Rd - Magnolia Ave	3033[2]	690	2711	5854	3706	4396	15000	-	0.20	0.25	0.29	-
Lerdo Hwy: Magnolia Ave - Scaroni Ave	4163[2]	690	3841		5251	5941	15000	-	0.28	0.35	0.40	-
Lerdo Hwy: Scaroni Ave - Poplar Ave	4304[2]	690	3982	4864	5444	6134	15000	-	0.29	0.36	0.41	-
Lerdo Hwy: Poplar Ave - Schnaidt St	5688[2]	690	5366	4631	7336	8026	20000	-	0.28	0.37	0.40	-
Lerdo Hwy: Schnaidt St - Shafter Ave	6881[2]	690	6559	5369	8967	9657	15000	-	0.46	0.60	0.64	-
Lerdo Hwy: Shafter Ave - SR 43 (Central Valley Hwy)	8365[2]	345	8204	18066	11215	11560	15000	-	0.56	0.75	0.77	-
Lerdo Hwy: SR 43 (Central Valley Hwy) - SR 99	8365[2]	345	8204	27213	12435	12780	15000	30000	0.56	**0.83**	**0.85**	0.43
Lerdo Hwy: SR 99 - Zerker Rd	5751[2]	345	5590	7227	6207	6552	15000	-	0.38	0.41	0.44	-
Lerdo Hwy: Zerker Rd - Kyte Ave	5751[2]	345	5590	7227	6207	6552	15000	-	0.38	0.41	0.44	-
Lerdo Hwy: Kyte Ave - Industrial Farm Rd	5751[2]	345	5590	5097	6207	6552	15000	-	0.38	0.41	0.44	-
Lerdo Hwy: Industrial Farm Rd - SR 65 (Porterville Hwy)	5751[2]	345	5590	3965	6207	6552	15000	-	0.38	0.41	0.44	-
Lokern Rd: W of Lost Hills Rd - Lost Hills Rd	448[2]	2491	68		76	2567	15000	-	0.03	0.01	0.17	-
Lokern Rd: Lost Hills Rd - SR 33	504[2]	2491	124	3575	188	2679	15000	-	0.03	0.01	0.18	-
Lokern Rd: SR 33 - SR 58	2812[2]	4039	926	6098	1404	5443	15000	-	0.19	0.09	0.36	-
Manor St: China Grade Loop - N Chester Ave	7091[2]	6872	3881	10541	4783	11655	40000	-	0.18	0.12	0.29	-
McCombs Rd: N Palm Ave - SR 43 (Central Valley Hwy)	1444[2]	14	1437	7	1596	1610	15000	-	0.10	0.11	0.11	-
Merle Haggard Dr: Golden State Hwy - SR 99	26577[2]	4340	24549		33560	37900	40000	60000	0.66	**0.84**	**0.95**	0.63
Merle Haggard Dr: SR 99 - SR 65 (Porterville Hwy)	20502[2]	7439	17027	30134	25807	33246	40000	60000	0.51	0.65	**0.83**	0.55

Table 4
Roadway Capacity
(Continued)

Street	Existing	2035 O&G	Existing NOG	KCOG 2035	2035 NOG	2035+ Project	Existing Capacity	Mitigated Capacity	v/c(Ex) 2014	v/c(Ex) 2035	v/c(Ex) 2035+Proj	v/c(Mit) 2035+Proj
Merle Haggard Dr: SR 65 (Porterville Hwy) - Beach Ave	22914[2]	7439	19439	9876	26574	34013	40000	60000	0.57	0.66	**0.85**	0.57
Merle Haggard Dr: Beach Ave - Airport Dr	11828[2]	7439	8353	9875	11419	18858	15000	30000	0.79	0.76	**1.26**	0.63
Merle Haggard Dr: Airport Dr - N Chester Ave	8095[2]	6872	4885	11886	6678	13550	30000	-	0.27	0.22	0.45	-
Midway Rd: SR 33 - SR 119 (Taft Hwy)	7817[2]	2137	6818	3676	11451	13588	15000	30000	0.52	0.76	**0.91**	0.45
Millux Rd: Interstate 5 - Old River Rd	1041[2]	0	1041		1156	1156	15000	-	0.07	0.08	0.08	-
Millux Rd: Hill Rd - Interstate 5	1197[2]	0	1197		1329	1329	15000	-	0.08	0.09	0.09	-
Muller Rd: Malaga Rd - Comanche Dr	1050[2]	240	938	254	1156	1396	15000	-	0.07	0.08	0.09	-
Panama Ln: SR 43 (Enos Ln) - Canfield Pkwy	4434[2]	3651	2728	5257	3729	7380	15000	-	0.30	0.25	0.49	-
Panama Ln: Canfield Pkwy - Heath Rd	4400[2]	3651	2694	9895	3683	7334	15000	-	0.29	0.25	0.49	-
Panama Ln: Heath Rd - Renfro Rd	3000[2]	3651	1294	15907	1769	5420	15000	-	0.20	0.12	0.36	-
Panama Ln: Renfro Rd - Allen Rd	3000[2]	3651	1294	7100	1769	5420	15000	-	0.20	0.12	0.36	-
Panama Ln: Allen Rd - Buena Vista Rd	3290[2]	3651	1584	19492	2165	5816	15000	-	0.22	0.14	0.39	-
Panama Ln: Buena Vista Rd - Old River Rd	7804[2]	3651	6098	27305	8336	11987	15000	-	0.52	0.56	0.80	-
Panama Ln: Old River Rd - Gosford Rd	6000[2]	3651	4294	7670	5870	9521	15000	-	0.40	0.39	0.63	-
Panama Ln: Gosford Rd - Ashe Rd	4800[2]	0	4800	48863	6562	6562	22500	-	0.21	0.29	0.29	-
Panama Ln: Ashe Rd - Stine Rd	25199[2]	0	25199	24520	34448	34448	40000	60000	0.63	**0.86**	**0.86**	0.57
Panama Ln: Stine Rd - Akers Rd	29974[2]	0	29974	47842	40976	40976	60000	-	0.50	0.68	0.68	-
Panama Ln: Akers Rd - Wible Rd	24586[2]	0	24586	49296	33610	33610	60000	-	0.41	0.56	0.56	-
Panama Ln: Wible Rd - SR 99	34070[2]	0	34070	48559	46576	46576	60000	-	0.57	0.78	0.78	-
Panama Ln: SR 99 - S H St	19701[2]	0	19701	25174	26932	26932	50000	-	0.39	0.54	0.54	-
Panama Ln: S H St - S Union Ave	7913[2]	0	7913	23295	10818	10818	40000	-	0.20	0.27	0.27	-
Panama Ln: S Union Ave - Cottonwood Rd	7322[2]	0	7322	16532	10010	10010	15000	-	0.49	0.67	0.67	-
Panama Ln: Cottonwood Rd - Fairfax Rd	6888[2]	0	6888	19125	9416	9416	15000	-	0.46	0.63	0.63	-
Panama Ln: Fairfax Rd - SR 184 (Weedpatch Hwy)	4277[2]	0	4277	9504	5847	5847	15000	-	0.29	0.39	0.39	-
Panama Rd: S Union Ave - Cottonwood Rd	9400[2]	48	9378	19264	11557	11605	15000	-	0.63	0.77	0.77	-
Panama Rd: Cottonwood Rd - Fairfax Rd	8500[2]	48	8478	15819	10448	10496	15000	-	0.57	0.70	0.70	-
Panama Rd: Fairfax Rd - SR 184 (Weedpatch Hwy)	7178[2]	48	7156	13509	8819	8867	15000	-	0.48	0.59	0.59	-
Panama Rd: SR 184 (Weedpatch Hwy) - Habecker Rd	5412[2]	48	5390	4187	5985	6033	15000	-	0.36	0.40	0.40	-
Panama Rd: Habecker Rd - Vineland Rd	2706[2]	48	2684		2980	3028	15000	-	0.18	0.20	0.20	-
Panama Rd: Vineland Rd - Edison Rd	2815[2]	48	2793	2402	3442	3490	15000	-	0.19	0.23	0.23	-
Panama Rd: Edison Rd - Comanche Dr	1613[2]	48	1591	163	1961	2009	15000	-	0.11	0.13	0.13	-
Panama Rd: Comanche Dr - Tejon Hwy	568[2]	0	568	4012	700	700	15000	-	0.04	0.05	0.05	-
Panama Rd: Tejon Hwy - Tower Line Rd	568[2]	0	568	2016	700	700	15000	-	0.04	0.05	0.05	-
Pieri Rd: Coles Levee Rd - Hill Rd	600[2]	0	600		666	666	15000	-	0.04	0.04	0.04	-
Reserve Rd: SR 33 - Dirt Road	320[2]	448	111		123	571	15000	-	0.02	0.01	0.04	-
Reserve Rd: Dirt Road - Skyline Rd	333[2]	448	124		138	586	15000	-	0.02	0.01	0.04	-
Reward Loop: Reward Rd - Reward Rd	300[2]	0	300		333	333	15000	-	0.02	0.02	0.02	-

Table 4
Roadway Capacity
(Continued)

Street	Existing	2035 O&G	Existing NOG	KCOG 2035	2035 NOG	2035+ Project	Existing Capacity	Mitigated Capacity	v/c(Ex) 2014	v/c(Ex) 2035	v/c(Ex) 2035+Proj	v/c(Mit) 2035+Proj
Reward Rd: SR 58 - Franco Western Rd	532[2]	0	532		591	591	15000	-	0.04	0.04	0.04	-
Reward Rd: Franco Western Rd - SR 33	926[2]	599	646		717	1316	15000	-	0.06	0.05	0.09	-
Skyline Rd: Reserve Rd - Unknown Rd	260[2]	469	41		46	515	15000	-	0.02	0.00	0.03	-
Skyline Rd: Unknown Rd - Elk Hills Rd	260[2]	406	70		78	484	15000	-	0.02	0.01	0.03	-
Skyline Rd: Elk Hills Rd - Unkown Rd	250[2]	1927	63		70	1997	15000	-	0.02	0.00	0.13	-
Skyline Rd: Unkown Rd - N Access Rd	250[2]	627	59		66	693	15000	-	0.02	0.00	0.05	-
Stockdale Hwy: Wasco Wy - Morris Rd	1353[2]	1654	580		644	2298	15000	-	0.09	0.04	0.15	-
Stockdale Hwy: Morris Rd - Int 5 SB Ramps	1464[2]	1654	691	2665	945	2599	15000	-	0.10	0.06	0.17	-
Stockdale Hwy: Int 5 SB Ramps - Int 5 NB Ramps	1464[2]	2249	413	2665	565	2814	15000	-	0.10	0.04	0.19	-
Stockdale Hwy: Int 5 NB Ramps - Bussell Rd	4032[2]	2249	2981	7830	4075	6324	15000	-	0.27	0.27	0.42	-
Stockdale Hwy: Bussell Rd - SR 43 (Enos Ln)	5407[2]	2249	4356	9142	5955	8204	15000	-	0.36	0.40	0.55	-
Stockdale Hwy: SR 43 (Enos Ln) - Nord Ave	6471[1]	5826	3750	14613	5126	10952	15000	-	0.43	0.34	0.73	-
Stockdale Hwy: Nord Ave - Heath Rd	13482[2]	5826	10761	14617	14711	20537	15000	30000	**0.90**	**0.98**	**1.37**	0.68
Stockdale Hwy: Heath Rd - Renfro Rd	12580[2]	5826	9859	3077	13478	19304	15000	30000	**0.84**	**0.90**	**1.29**	0.64
Stockdale Hwy: Renfro Rd - Allen Rd	25308[2]	5826	22587	14599	30878	36704	40000	60000	0.63	0.77	**0.92**	0.61
Stockdale Hwy: Allen Rd - Buena Vista Rd	16955[2]	5826	14234	20641	19459	25285	40000	-	0.42	0.49	0.63	-
Stockdale Hwy: Buena Vista Rd - Old River Rd	34232[2]	5826	31511	45997	43077	48903	60000	-	0.57	0.72	**0.82**	-
Stockdale Hwy: Old River Rd - Don Hart Dr E	43725[2]	5826	41004	20132	56055	61881	60000	-	0.73	**0.93**	**1.03**	-
Stockdale Hwy: Don Hart Dr E - Coffee Rd	37547[2]	5826	34826	17759	47609	53435	60000	-	0.63	0.79	**0.89**	-
Stockdale Hwy: Coffee Rd - El Rio Dr	42389[2]	0	42389	25989	57948	57948	60000	-	0.71	**0.97**	**0.97**	-
Stockdale Hwy: El Rio Dr - Ashe Rd	45329[2]	0	45329	28508	61967	61967	60000	-	0.76	**1.03**	**1.03**	-
Stockdale Hwy: Ashe Rd - New Stine Rd	48498[2]	0	48498	26949	66300	66300	60000	-	**0.81**	**1.11**	**1.11**	-
Stockdale Hwy: New Stine Rd - Stine Rd	27123[2]	0	27123	21278	37079	37079	60000	-	0.45	0.62	0.62	-
Stockdale Hwy: Stine Rd - Real Rd	48679[2]	0	48679	32139	66547	66547	60000	-	**0.81**	**1.11**	**1.11**	-
Taft Hwy: S H St - Chevalier Rd	13293[2]	48	13271	25101	18142	18190	15000	30000	**0.89**	**1.21**	**1.21**	0.61
Taft Hwy: Chevalier Rd - S Union Ave	9783[2]	48	9761	24013	10839	10887	15000	-	0.65	0.72	0.73	-
Twisselman Rd: Barker Rd - Holloway Rd	885[2]	0	885	1243	983	983	15000	-	0.06	0.07	0.07	-
Twisselman Rd: Holloway Rd - Interstate 5	440[2]	0	440	1715	489	489	15000	-	0.03	0.03	0.03	-
Twisselman Rd: Interstate 5 - Lost Hill Rd	110[2]	0	110		122	122	15000	-	0.01	0.01	0.01	-
Union Rd: Enos Ln - Coles Levee Rd	700[2]	0	700		777	777	15000	-	0.05	0.05	0.05	-
Western Minerals Rd: Klipstein Rd - Hazelton St	264[2]	479	40		44	523	15000	-	0.02	0.00	0.03	-
Wood St: S 10th St - Olive Ave	3824[2]	0	3824	1643	4713	4713	15000	-	0.25	0.31	0.31	-
Wood St: Olive Ave - SR 33	3824[2]	2564	2626	1998	3590	6154	15000	-	0.25	0.24	0.41	-
Airport Dr: SR 99 - Roberts Ln	31464[2]	0	31464		34938	34938	40000	60000	0.79	**0.87**	**0.87**	0.58
Airport Dr: Roberts Ln - China Grade Loop	20825[2]	0	20825	42113	23124	23124	40000	-	0.52	0.58	0.58	-
Airport Dr: China Grade Loop - Merle Haggard Dr	14668[2]	40	14649	11175	16267	16307	15000	30000	**0.98**	**1.08**	**1.09**	0.54
Airport Dr: Merle Haggard Dr - James Rd	5516[2]	607	5232	6050	5810	6417	15000	-	0.37	0.39	0.43	-

Table 4
Roadway Capacity
(Continued)

Street	Existing	2035 O&G	Existing NOG	KCOG 2035	2035 NOG	2035+ Project	Existing Capacity	Mitigated Capacity	v/c(Ex) 2014	v/c(Ex) 2035	v/c(Ex) 2035+Proj	v/c(Mit) 2035+Proj
Allen Rd: SR 58 (Rosedale Hwy) - Hageman Rd	16535[2]	0	16535	29851	25062	25062	30000	37500	0.55	**0.84**	**0.84**	0.67
Allen Rd: Hageman Rd - Reina Rd	6452[2]	0	6452	17047	9779	9779	15000	-	0.43	0.65	0.65	-
Allen Rd: Reina Rd - Olive Dr	6900[2]	0	6900	10942	10458	10458	20000	-	0.35	0.52	0.52	-
Zerker Rd: Olive Dr - 7th Standard Rd	3882[2]	50	3859	21905	4285	4335	15000	-	0.26	0.29	0.29	-
Basic School Rd: Copus Rd - Gardner Field Rd	610[2]	0	610		677	677	15000	-	0.04	0.05	0.05	-
Beech Ave: 7th Standard Rd - Petrol Rd	1487[2]	84	1448		1608	1692	15000	-	0.10	0.11	0.11	-
Brown Material Rd: SR 33 - SR 46	433[2]	321	283	225	349	670	15000	-	0.03	0.02	0.04	-
Buena Vista Rd: Panama Ln - Pacheco Rd	7951[2]	0	7951	10232	12051	12051	15000	-	0.53	0.80	0.80	-
Buena Vista Rd: Pacheco Rd - White Ln	16708[2]	0	16708	22729	25324	25324	30000	37500	0.56	**0.84**	**0.84**	0.68
Buena Vista Rd: White Ln - Ming Ave	12505[2]	0	12505	51754	18953	18953	40000	-	0.31	0.47	0.47	-
Buena Vista Rd: Ming Ave - Stockdale Hwy	12215[2]	0	12215	45487	18514	18514	40000	-	0.31	0.46	0.46	-
Buttonwillow Dr: Elk Hills Rd - Brite Rd	1800[2]	1654	1027	4552	1140	2794	15000	-	0.12	0.08	0.19	-
Buttonwillow Dr: SR 58 - 7th Standard Rd	1821[2]	0	1821	3131	2022	2022	15000	-	0.12	0.13	0.13	-
Buttonwillow Dr: 7th Standard Rd - Lerdo Hwy	1353[2]	0	1353	858	1502	1502	15000	-	0.09	0.10	0.10	-
Calloway Dr: Stockdale Hwy - Brimhall Rd	32428[2]	0	32428	69705	49150	49150	40000	60000	**0.81**	**1.23**	**1.23**	**0.82**
Calloway Dr: Brimhall Rd - SR 58 (Rosedale Hwy)	33309[2]	0	33309	39961	50485	50485	40000	60000	**0.83**	**1.26**	**1.26**	**0.84**
Calloway Dr: SR 58 (Rosedale Hwy) - Meacham Rd	29590[2]	0	29590	31307	44849	44849	40000	60000	0.74	**1.12**	**1.12**	0.75
Calloway Dr: Meacham Rd - Hageman Rd	26576[2]	0	26576	24542	40280	40280	40000	60000	0.66	**1.01**	**1.01**	0.67
Calloway Dr: Hageman Rd - Olive Dr	23109[2]	0	23109	18635	35026	35026	60000	-	0.39	0.58	0.58	-
Calloway Dr: Olive Dr - Norris Rd	7922[2]	0	7922	9715	12007	12007	50000	-	0.16	0.24	0.24	-
Calloway Dr: Norris Rd - Snow Rd	7922[2]	0	7922	12043	12007	12007	30000	-	0.26	0.40	0.40	-
Calloway Dr: Snow Rd - 7th Standard Rd	7061[2]	0	7061	8663	10702	10702	15000	-	0.47	0.71	0.71	-
Coffee Rd: Stockdale Hwy - Truxtun Ave	69257[2]	0	69257	47149	104971	104971	60000	-	**1.15**	**1.75**	**1.75**	-
Coffee Rd: Truxtun Ave - Brimhall Rd	55228[2]	0	55228	49627	83707	83707	60000	-	**0.92**	**1.40**	**1.40**	-
Coffee Rd: Brimhall Rd - SR 58 (Rosedale Hwy)	36728[2]	0	36728	46919	55667	55667	60000	-	0.61	**0.93**	**0.93**	-
Coffee Rd: SR 58 (Rosedale Hwy) - Hageman Rd	31818[2]	0	31818	37407	48225	48225	60000	-	0.53	0.80	0.80	-
Coffee Rd: Hageman Rd - Olive Dr	25767[2]	0	25767	31988	39054	39054	60000	-	0.43	0.65	0.65	-
Coffee Rd: Olive Dr - Norris Rd	12462[2]	0	12462	24478	18888	18888	30000	-	0.42	0.63	0.63	-
Coffee Rd: Norris Rd - Snow Rd	7599[2]	0	7599	22757	11518	11518	15000	-	0.51	0.77	0.77	-
Coffee Rd: Snow Rd - 7th Standard Rd	7284[2]	0	7284	22906	11040	11040	15000	-	0.49	0.74	0.74	-
Coles Levee Rd: Pieri Rd - Bear Mountain Blvd	624[2]	0	624		693	693	15000	-	0.04	0.05	0.05	-
Coles Levee Rd: Bear Mountain Blvd - Union Rd	300[2]	0	300		333	333	15000	-	0.02	0.02	0.02	-
Comanche Dr: SR 223 (Bear Mtn Blvd) - DiGiorgio Rd	7749[2]	0	7749	11141	9550	9550	15000	-	0.52	0.64	0.64	-
Comanche Dr: DiGiorgio Rd - Panama Rd	7255[2]	0	7255	8587	8941	8941	15000	-	0.48	0.60	0.60	-
Comanche Dr: Panama Rd - Mountain View Rd	6700[2]	48	6678	8646	8230	8278	15000	-	0.45	0.55	0.55	-
Comanche Dr: Mountain View Rd - Muller Rd	6700[2]	48	6678	8648	8230	8278	15000	-	0.45	0.55	0.55	-
Comanche Dr: Muller Rd - SR 58	4000[2]	192	3910	18313	4819	5011	15000	-	0.27	0.32	0.33	-

Table 4
Roadway Capacity
(Continued)

Street	Existing	2035 O&G	Existing NOG	KCOG 2035	2035 NOG	2035+ Project	Existing Capacity	Mitigated Capacity	v/c(Ex) 2014	v/c(Ex) 2035	v/c(Ex) 2035+Proj	v/c(Mit) 2035+Proj
Comanche Dr: SR 58 - Edison Hwy	4331[2]	0	4331	4591	5337	5337	15000	-	0.29	0.36	0.36	-
Comanche Dr: Edison Hwy - Breckenridge Rd	2887[2]	0	2887	3721	3558	3558	15000	-	0.19	0.24	0.24	-
Comanche Dr: Breckenridge Rd - SR 178	3664[2]	0	3664	6952	4515	4515	15000	-	0.24	0.30	0.30	-
Corn Camp Rd: SR 58 - 7th Standard Rd	957[2]	1730	149		165	1895	15000	-	0.06	0.01	0.13	-
Dairy Rd: Adohr Rd - Stockdale Hwy	200[2]	0	200		222	222	15000	-	0.01	0.01	0.01	-
Elk Hills Rd: SR 119 (Taft Hwy) - Skyline Rd	1137[2]	1633	374	3687	461	2094	15000	-	0.08	0.03	0.14	-
Elk Hills Rd: Skyline Rd - Buttonwillow Dr	1249[2]	1654	476	2275	587	2241	15000	-	0.08	0.04	0.15	-
Enos Ln: Union Rd - SR 119 (Taft Hwy)	728[2]	0	728		808	808	15000	-	0.05	0.05	0.05	-
Fairfax Rd: SR 178 - Auburn St	20800[2]	0	20800		31526	31526	40000	-	0.52	0.79	0.79	-
Fairfax Rd: Auburn St - Panorama Dr	11997[2]	0	11997	13307	18183	18183	40000	-	0.30	0.45	0.45	-
Fairfax Rd: Panorama Dr - Paladino Dr	6620[2]	0	6620	11899	10034	10034	40000	-	0.17	0.25	0.25	-
Fairfax Rd: Paladino Dr - Alfred Harrell Hwy	3306[2]	0	3306	27299	5011	5011	15000	-	0.22	0.33	0.33	-
Franco Western Rd: Reward Rd - West Side Hwy	645[2]	1021	168		187	1208	15000	-	0.04	0.01	0.08	-
Freeborn Rd: Adohr Rd - Stockdale Hwy	600[2]	0	600		666	666	15000	-	0.04	0.04	0.04	-
Gosford Rd: SR 223 (Bear Mtn Blvd) - SR 119 (Taft Hwy)	1827[2]	0	1827	1190	2029	2029	15000	-	0.12	0.14	0.14	-
Gosford Rd: SR 119 (Taft Hwy) - McCutchen Rd	5800[2]	0	5800	9694	8791	8791	15000	-	0.39	0.59	0.59	-
Gosford Rd: McCutchen Rd - Panama Ln	4809[2]	0	4809	13479	7289	7289	15000	-	0.32	0.49	0.49	-
Gosford Rd: Panama Ln - Pacheco Rd	14629[2]	0	14629	25035	22173	22173	40000	-	0.37	0.55	0.55	-
Gosford Rd: Pacheco Rd - White Ln	20111[2]	0	20111	27444	30482	30482	60000	-	0.34	0.51	0.51	-
Gosford Rd: White Ln - S Laurelglen Blvd	34749[2]	0	34749	17625	52668	52668	60000	-	0.58	**0.88**	**0.88**	-
Gosford Rd: S Laurelglen Blvd - N Laurelglen Blvd	30929[2]	0	30929	22255	46878	46878	60000	-	0.52	0.78	0.78	-
Gosford Rd: N Laurelglen Blvd - Ming Ave	29635[2]	0	29635	25995	44917	44917	60000	-	0.49	0.75	0.75	-
Gosford Rd: Ming Ave - Stockdale Hwy	35627[2]	0	35627	47726	53999	53999	60000	-	0.59	**0.90**	**0.90**	-
Granite Rd: James Rd - N Chester Ave Ext	3052[2]	422	2855	2212	3170	3592	15000	-	0.20	0.21	0.24	-
Granite Rd: N Chester Ave Ext - Round Mountain Rd	2950[2]	422	2753	4354	3057	3479	15000	-	0.20	0.20	0.23	-
Granite Rd: Round Mountain Rd - Garcia Rd	361[2]	197	269	2242	285	482	15000	-	0.02	0.02	0.03	-
Granite Rd: Garcia Rd - Famoso Rd	361[2]	22	351	2242	390	412	15000	-	0.02	0.03	0.03	-
Granite Rd: Famoso Rd - Pine Mountain Rd	361[2]	0	361	926	401	401	15000	-	0.02	0.03	0.03	-
Hill Rd: S Lake Rd - Millux Rd	843[2]	0	843		936	936	15000	-	0.06	0.06	0.06	-
Hill Rd: Millux Rd - Pieri Rd	810[2]	0	810		899	899	15000	-	0.05	0.06	0.06	-
Klipstein Canyon Rd: Cerro Noroeste Rd - SR 166	52[2]	0	52		58	58	15000	-	0.00	0.00	0.00	-
Lost Hills Rd: West Side Hwy - Lokern Rd	562[2]	1021	85		94	1115	15000	-	0.04	0.01	0.07	-
Lost Hills Rd: Lokern Rd - SR 33	1030[2]	749	680		755	1504	15000	-	0.07	0.05	0.10	-
Lost Hills Rd: SR 33 - 7th Standard Rd	1000[2]	1873	125		139	2012	15000	-	0.07	0.01	0.13	-
Lost Hills Rd: 7th Standard Rd - Lerdo Hwy	1030[2]	1873	155	4216	172	2045	15000	-	0.07	0.01	0.14	-
Lost Hills Rd: Lerdo Hwy - SR 46	4451[2]	1873	3576	2519	4407	6280	15000	-	0.30	0.29	0.42	-
Lost Hills Rd: SR 46 - Twisselman Rd	52[2]	0	52	1210	58	58	15000	-	0.00	0.00	0.00	-

Table 4
Roadway Capacity
(Continued)

Street	Existing	2035 O&G	Existing NOG	KCOG 2035	2035 NOG	2035+ Project	Existing Capacity	Mitigated Capacity	v/c(Ex) 2014	v/c(Ex) 2035	v/c(Ex) 2035+Proj	v/c(Mit) 2035+Proj
Lost Hills Rd: Twisselman Rd - County Line Rd	52[2]	0	52		58	58	15000	-	0.00	0.00	0.00	-
Magnolia Ave: 7th Standard - Burbank St	1127[2]	0	1127	2891	1389	1389	15000	-	0.08	0.09	0.09	-
Magnolia Ave: Burbank St - SR 46	561[2]	0	561	15760	691	691	15000	-	0.04	0.05	0.05	-
Main Drain Rd: 7th Standard Rd - Lerdo Hwy	177[2]	0	177	3131	197	197	15000	-	0.01	0.01	0.01	-
Main Drain Rd: Lerdo Hwy - Interstate 5	104[2]	0	104	1407	115	115	15000	-	0.01	0.01	0.01	-
Main Drain Rd: Interstate 5 - SR 46	561[2]	0	561		623	623	15000	-	0.04	0.04	0.04	-
Malaga Rd: Panama Ln - Muller Rd	640[2]	240	528	241	651	891	15000	-	0.04	0.04	0.06	-
Mohawk St: Westside Parkway - SR 58 (Rosedale Hwy)	10000[2]	122	9943	49862	13593	13715	60000	-	0.17	0.23	0.23	-
Morning Dr: Niles St - College Ave	1145[2]	0	1145	3849	1271	1271	30000	-	0.04	0.04	0.04	-
Morning Dr: College Ave - Highland Knolls Dr	1100[2]	0	1100	3112	1221	1221	15000	-	0.07	0.08	0.08	-
Morning Dr: Highland Knolls Dr - SR 178	500[2]	0	500	5293	616	616	15000	-	0.03	0.04	0.04	-
N Access Rd: Skyline Rd - Tupman Rd	460[2]	817	79		88	905	15000	-	0.03	0.01	0.06	-
N Chester Ave: China Grade Loop - Merle Haggard Dr	11448[2]	0	11448	7434	14108	14108	40000	-	0.29	0.35	0.35	-
N Chester Ave Ext: Manor St - Granite Rd	5822[2]	0	5822	7595	6465	6465	15000	-	0.39	0.43	0.43	-
Oilfield Rd: James Rd - N of James Rd	604[2]	969	151		168	1137	15000	-	0.04	0.01	0.08	-
Old River Rd: SR 166 (Maricopa Hwy) - Copus Rd	2354[2]	1743	1540	3357	1898	3641	15000	-	0.16	0.13	0.24	-
Old River Rd: Copus Rd - Interstate 5	2354[2]	1743	1540	3572	1898	3641	15000	-	0.16	0.13	0.24	-
Old River Rd: Interstate 5 - SR 223 (Bear Mtn Blvd)	5847[2]	1743	5033	4161	6203	7946	15000	-	0.39	0.41	0.53	-
Old River Rd: SR 223 (Bear Mtn Blvd) - SR 119 (Taft Hwy)	3666[2]	1743	2852	10619	3515	5258	15000	-	0.24	0.23	0.35	-
Old River Rd: SR 119 (Taft Hwy) - McCutchen Rd	5847[2]	0	5847	10144	7993	7993	15000	-	0.39	0.53	0.53	-
Old River Rd: McCutchen Rd - Panama Ln	2276[2]	0	2276	11122	3111	3111	15000	-	0.15	0.21	0.21	-
Old River Rd: Panama Ln - Harris Rd	8044[2]	0	8044	7831	10997	10997	15000	-	0.54	0.73	0.73	-
Old River Rd: Harris Rd - Campus Park Dr	11891[2]	0	11891	11432	16256	16256	15000	30000	0.79	**1.08**	**1.08**	0.54
Old River Rd: Campus Park Dr - White Ln	10369[2]	0	10369	15801	14175	14175	40000	-	0.26	0.35	0.35	-
Old River Rd: White Ln - Ming Ave	17303[2]	0	17303	45694	23654	23654	60000	-	0.29	0.39	0.39	-
Old River Rd: Ming Ave - Stockdale Hwy	33968[2]	0	33968	41758	46436	46436	60000	-	0.57	0.77	0.77	-
Olive Ave: South St - Wood St	271[2]	1573	64		71	1644	15000	-	0.02	0.00	0.11	-
Palm Ave: SR 46 - McCombs Rd	1500[2]	106	1451		1611	1717	15000	-	0.10	0.11	0.11	-
Palm Ave: McCombs Ave - Phillips Rd	1340[2]	120	1284		1426	1546	15000	-	0.09	0.10	0.10	-
Real Rd: SR 58 - Stockdale Hwy	16105[2]	0	16105	0	22016	22016	50000	-	0.32	0.44	0.44	-
Round Mtn Rd: China Grade Loop - Pyramid Rd	2304[2]	899	1884	1076	2092	2991	15000	-	0.15	0.14	0.20	-
Round Mtn Rd: Pyramid Rd - Granite Rd	208[2]	225	103	926	114	339	15000	-	0.01	0.01	0.02	-
Rowlee Rd: Lerdo Hwy - SR 46	2381[2]	0	2381	1111	2644	2644	15000	-	0.16	0.18	0.18	-
S 10th St: Wood St - A St	8657[2]	0	8657	1808	9613	9613	15000	-	0.58	0.64	0.64	-
S Lake Rd: Gardner Field Rd - Hill Rd	1037[2]	0	1037	1269	1278	1278	15000	-	0.07	0.09	0.09	-
SR 204 (Union Ave): SR 58 - Union Ave	43000[2]	0	43000	48007	47748	47748	40000	60000	**1.08**	**1.19**	**1.19**	0.80
Santa Fe Way: Allen Rd - Hageman Rd	9600[2]	0	9600	15328	13124	13124	40000	-	0.24	0.33	0.33	-

Table 4
Roadway Capacity
(Continued)

Street	Existing	2035 O&G	Existing NOG	KCOG 2035	2035 NOG	2035+ Project	Existing Capacity	Mitigated Capacity	v/c(Ex) 2014	v/c(Ex) 2035	v/c(Ex) 2035+Proj	v/c(Mit) 2035+Proj
Santa Fe Way: Hageman Rd - Renfro Rd	9600[2]	0	9600	29362	13124	13124	15000	30000	0.64	**0.87**	**0.87**	0.44
Santa Fe Way: Renfro Rd - Kratzmeyer Rd	9600[2]	0	9600	23999	13124	13124	15000	30000	0.64	**0.87**	**0.87**	0.44
Santa Fe Way: Kratzmeyer Rd - 7th Standard Rd	7448[2]	0	7448	22837	10182	10182	15000	-	0.50	0.68	0.68	-
Santa Fe Way: 7th Standard Rd - Los Angeles Ave	11245[2]	423	11047	24652	15102	15525	15000	30000	0.75	**1.01**	**1.04**	0.52
Shafter Ave: SR 43 (Central Valley Hwy) - Merced Ave	2942[2]	64	2912		3234	3298	15000	-	0.20	0.22	0.22	-
Shafter Ave: Merced Ave - Kimberlina Rd	1509[2]	256	1390		1543	1799	15000	-	0.10	0.10	0.12	-
Shafter Ave: Lerdo Hwy - SR 43 (Central Valley Hwy)	2942[2]	0	2942		3267	3267	15000	-	0.20	0.22	0.22	-
Tracy Ave: SR 58 - Int 5 NB Ramps	1000[2]	0	1000		1110	1110	10000	-	0.10	0.11	0.11	-
Tracy Ave: Int 5 NB Ramps - Willow Dr	500[2]	0	500		555	555	10000	-	0.05	0.06	0.06	-
Tracy Ave: Willow Dr - 7th Standard Rd	500[2]	0	500	2377	555	555	15000	-	0.03	0.04	0.04	-
Tupman Rd: SR 119 - N Access Rd	690[2]	817	309		343	1160	15000	-	0.05	0.02	0.08	-
Tupman Rd: N Access Rd - Adohr Rd	239[2]	0	239		265	265	15000	-	0.02	0.02	0.02	-
Wasco Wy: Brite Rd - SR 58	1821[2]	1712	1021		1134	2846	15000	-	0.12	0.08	0.19	-
Wasco Wy: Stockdale Hwy - Brite Rd	1821[2]	1654	1048		1164	2818	15000	-	0.12	0.08	0.19	-
Wheeler Ridge Rd: Interstate 5 - Del Sol Dr	5030[2]	226	4925		6733	6959	15000	-	0.34	0.45	0.46	-
Wheeler Ridge Rd: Del Sol Dr - David Rd	5030[2]	0	5030	9318	6876	6876	15000	-	0.34	0.46	0.46	-
Wheeler Ridge Rd: David Rd - SR 223 (Bear Mtn Blvd)	3839[2]	0	3839	9128	5248	5248	15000	-	0.26	0.35	0.35	-
Zerker Rd: 7th Standard Rd - Lerdo Hwy	5449[2]	0	5449	16199	6051	6051	15000	-	0.36	0.40	0.40	-
SR 178: 24th St Frontage Rd - Union Ave	54000[2]	0	54000	38254	90697	90697	75000	-	0.72	**1.21**	**1.21**	-
SR 178: Union Ave - Mt Vernon Ave	63000[2]	0	63000	29315	105814	105814	112500	60000	0.56	**0.94**	**0.94**	**1.76**
SR 178: Mt Vernon Ave - Oswell St	40500[2]	0	40500	18214	68023	68023	112500	-	0.36	0.60	0.60	-
SR 178: Oswell St - Fairfax Rd	30000[2]	0	30000	38254	50387	50387	75000	-	0.40	0.67	0.67	-
SR 58: Real Rd - SR 99	40500[2]	0	40500		49912	49912	40000	60000	**1.01**	**1.25**	**1.25**	**0.83**
SR 58: SR 99 - Union Ave	81000[2]	0	81000	57471	99824	99824	75000	60000	**1.08**	**1.33**	**1.33**	**1.66**
SR 58: Union Ave - Cottonwood Rd	78000[2]	0	78000	38929	96127	96127	112500	60000	0.69	**0.85**	**0.85**	**1.60**
SR 58: Cottonwood Rd - Mt Vernon Ave	78000[2]	0	78000	56526	96127	96127	112500	60000	0.69	**0.85**	**0.85**	**1.60**
SR 58: Mt Vernon Ave - Fairfax Rd	76000[2]	192	75910	49586	93551	93743	112500	60000	0.68	**0.83**	**0.83**	**1.56**
SR 58: Fairfax Rd - SR 184 (Weedpatch Hwy)	40500[2]	192	40410	38929	49801	49993	112500	-	0.36	0.44	0.44	-
SR 58: SR 184 (Weedpatch Hwy) - Comanche Dr	27500[2]	192	27410	24104	33780	33972	112500	-	0.24	0.30	0.30	-
SR 58: Comanche Dr - SR 223 (Bear Mtn Blvd)	21100[2]	0	21100	17284	26003	26003	75000	-	0.28	0.35	0.35	-
Interstate 5: Grapevine Rd - S Wheeler Ridge Rd	70000[2]	0	70000	89944	106097	106097	75000	0	**0.93**	**1.41**	**1.41**	#DIV/0!
Interstate 5: S Wheeler Ridge Rd - SR 99	70000[2]	226	69895	69044	105937	106163	140625	-	0.50	0.75	0.75	-
Interstate 5: SR 99 - SR 166 (Maricopa Hwy)	29500[2]	0	29500	29925	44712	44712	75000	-	0.39	0.60	0.60	-
Interstate 5: SR 166 (Maricopa Hwy) - Old River Rd	29500[2]	0	29500	29925	44712	44712	75000	-	0.39	0.60	0.60	-
Interstate 5: Old River Rd - SR 223 (Bear Mtn Blvd)	29000[2]	0	29000	27274	43954	43954	75000	-	0.39	0.59	0.59	-
Interstate 5: SR 223 (Bear Mtn Blvd) - SR 119 (Taft Hwy)	31000[2]	0	31000	28014	46986	46986	75000	-	0.41	0.63	0.63	-
Interstate 5: SR 119 (Taft Hwy) - SR 43 (Enos Ln)	31000[2]	689	30678	28014	46498	47187	75000	-	0.41	0.62	0.63	-

Table 4
Roadway Capacity
(Continued)

Street	Existing	2035 O&G	Existing NOG	KCOG 2035	2035 NOG	2035+ Project	Existing Capacity	Mitigated Capacity	v/c(Ex) 2014	v/c(Ex) 2035	v/c(Ex) 2035+Proj	v/c(Mit) 2035+Proj
Interstate 5: SR 43 (Enos Ln) - Stockdale Hwy	31000[2]	3058	29571	37535	44820	47878	75000	-	0.41	0.60	0.64	-
Interstate 5: Stockdale Hwy - SR 58	36000[2]	3653	34293	35594	51977	55630	75000	-	0.48	0.69	0.74	-
Interstate 5: SR 58 - 7th Standard Rd	35500[2]	2645	34264	29294	51933	54578	75000	-	0.47	0.69	0.73	-
Interstate 5: 7th Standard Rd - Lerdo Hwy	35500[2]	7725	31890	31109	48335	56060	75000	-	0.47	0.64	0.75	-
Interstate 5: Lerdo Hwy - SR 46	35500[2]	4891	33214	91109	50341	55232	75000	-	0.47	0.67	0.74	-
Interstate 5: SR 46 - County Line Rd	32500[2]	0	32500	33364	49259	49259	75000	-	0.43	0.66	0.66	-
SR 99: Interstate 5 - SR 166	43000[2]	226	42895	36394	58640	58866	112500	-	0.38	0.52	0.52	-
SR 99: SR 166 - Copus Rd	40500[2]	783	40134	34258	54865	55648	112500	-	0.36	0.49	0.49	-
SR 99: Copus Rd - Herring Rd	43000[2]	783	42634	33810	58283	59066	112500	-	0.38	0.52	0.53	-
SR 99: Herring Rd - SR 223 (Bear Mtn Blvd)	42000[2]	783	41634	34258	56916	57699	112500	-	0.37	0.51	0.51	-
SR 99: SR 223 (Bear Mtn Blvd) - SR 119 (Taft Hwy)	50000[2]	783	49634	40078	67853	68636	112500	-	0.44	0.60	0.61	-
SR 99: SR 119 (Taft Hwy) - Panama Ln	60000[2]	0	60000	48475	82023	82023	112500	-	0.53	0.73	0.73	-
SR 99: Panama Ln - SR 58 E	140000[2]	0	140000	85812	191388	191388	112500	187500	**1.24**	**1.70**	**1.70**	**1.02**
SR 99: SR 58 E - SR 178	139000[2]	0	139000	49726	190021	190021	112500	187500	**1.24**	**1.69**	**1.69**	**1.01**
SR 99: SR 178 - Olive Dr	109000[2]	0	109000	85700	149009	149009	187500	-	0.58	0.79	0.79	-
SR 99: Olive Dr - 7th Standard Rd	78000[2]	0	78000	49256	106631	106631	112500	140000	0.69	**0.95**	**0.95**	0.76
SR 99: 7th Standard Rd - Lerdo Hwy	64000[2]	2794	62695	49726	85708	88502	112500	-	0.57	0.76	0.79	-
SR 99: Lerdo Hwy - Kimberlina Rd	57000[2]	2794	55695	50820	76138	78932	112500	-	0.51	0.68	0.70	-
SR 99: Kimberlina Rd - SR 46	57000[2]	2538	55814	47841	76301	78839	112500	-	0.51	0.68	0.70	-
SR 99: SR 46 - Garces Hwy	51000[2]	0	51000	42402	69720	69720	112500	-	0.45	0.62	0.62	-
SR 99: Garces Hwy - County Line Rd	47500[2]	0	47500	57849	64935	64935	112500	-	0.42	0.58	0.58	-
23rd St: Bay St - 24th St Frontage Rd	24900[2]	0	24900	35788	30687	30687	30000	37500	**0.83**	**1.02**	**1.02**	**0.82**
SR 119 (Taft Hwy): SR 33 - Elk Hills Rd	7000[2]	3419	5403	4679	9075	12494	15000	30000	0.47	0.61	**0.83**	0.42
SR 119 (Taft Hwy): Elk Hills Rd - Tupman Rd	10200[2]	7519	6687	12276	11231	18750	15000	30000	0.68	0.75	**1.25**	0.63
SR 119 (Taft Hwy): Tupman Rd - SR 43 (Enos Ln)	13700[2]	8336	9806	17210	16470	24806	15000	37500	**0.91**	**1.10**	**1.65**	0.66
SR 119 (Taft Hwy): SR 43 (Enos Ln) - Interstate 5	7500[2]	1776	6670	8204	11203	12979	15000	30000	0.50	0.75	**0.87**	0.43
SR 119 (Taft Hwy): Interstate 5 - Greeley Rd Ext	7800[2]	2465	6648	9693	11166	13631	15000	30000	0.52	0.74	**0.91**	0.45
SR 119 (Taft Hwy): Greeley Rd Ext - Nord Rd Ext	7800[2]	2465	6648	9693	11166	13631	15000	30000	0.52	0.74	**0.91**	0.45
SR 119 (Taft Hwy): Nord Rd Ext - Heath Rd Ext	7800[2]	2465	6648	9829	11166	13631	15000	30000	0.52	0.74	**0.91**	0.45
SR 119 (Taft Hwy): Heath Rd Ext - Renfro Rd Ext	7800[2]	2465	6648	9817	11166	13631	15000	30000	0.52	0.74	**0.91**	0.45
SR 119 (Taft Hwy): Renfro Rd Ext - Allen Rd Ext	7800[2]	2465	6648	9855	11166	13631	15000	30000	0.52	0.74	**0.91**	0.45
SR 119 (Taft Hwy): Allen Rd Ext - Buena Vista Rd	7800[2]	2465	6648	7627	11166	13631	15000	30000	0.52	0.74	**0.91**	0.45
SR 119 (Taft Hwy): Buena Vista Rd - Old River Rd	8000[2]	2465	6848	8348	11502	13967	15000	30000	0.53	0.77	**0.93**	0.47
SR 119 (Taft Hwy): Old River Rd - Gosford Rd	9300[2]	2465	8148	7670	13685	16150	15000	30000	0.62	**0.91**	**1.08**	0.54
SR 119 (Taft Hwy): Gosford Rd - Ashe Rd	9300[2]	2399	8179	11363	13737	16136	15000	30000	0.62	**0.92**	**1.08**	0.54
SR 119 (Taft Hwy): Ashe Rd - Stine Rd	9300[2]	2399	8179	11268	13737	16136	15000	30000	0.62	**0.92**	**1.08**	0.54
SR 119 (Taft Hwy): Stine Rd - Akers Rd	9300[2]	2399	8179	11277	13737	16136	15000	30000	0.62	**0.92**	**1.08**	0.54

Table 4
Roadway Capacity
(Continued)

Street	Existing	2035 O&G	Existing NOG	KCOG 2035	2035 NOG	2035+ Project	Existing Capacity	Mitigated Capacity	v/c(Ex) 2014	v/c(Ex) 2035	v/c(Ex) 2035+Proj	v/c(Mit) 2035+Proj
SR 119 (Taft Hwy): Akers Rd - Wible Rd	9300[2]	2399	8179	11540	13737	16136	15000	30000	0.62	**0.92**	**1.08**	0.54
SR 119 (Taft Hwy): Wible Rd - SR 99	11200[2]	2399	10079	13969	16929	19328	15000	30000	0.75	**1.13**	**1.29**	0.64
Taft Hwy: SR 99 - S H St	11800[2]	48	11778		19782	19830	15000	30000	0.79	**1.32**	**1.32**	0.66
SR 155 (Garces Hwy): SR 99 - Browning Rd	15500[2]	0	15500	11741	19102	19102	15000	30000	**1.03**	**1.27**	**1.27**	0.64
SR 155 (Garces Hwy): Browning Rd - Zachary Ave	2700[2]	0	2700		3327	3327	15000	-	0.18	0.22	0.22	-
SR 155 (Garces Hwy): Zachary Ave - Famoso Porterville Hwy	2200[2]	0	2200	2528	3695	3695	15000	-	0.15	0.25	0.25	-
SR 155 (Garces Hwy): Famoso Porterville Hwy - Quinn Rd	630[2]	0	630		776	776	15000	-	0.04	0.05	0.05	-
SR 155 (Garces Hwy): Quinn Rd - SR 65 (Porterville Hwy)	400[2]	0	400	2528	493	493	15000	-	0.03	0.03	0.03	-
SR 166 (Maricopa Hwy): SR 33 - Cappello	5700[2]	2137	4701	3294	7896	10033	15000	-	0.38	0.53	0.67	-
SR 166 (Maricopa Hwy): Cappello - Old River Rd	5700[2]	2225	4660	4278	7827	10052	15000	-	0.38	0.52	0.67	-
SR 166 (Maricopa Hwy): Old River Rd - Wheeler Ridge Access Rd	2400[2]	572	2132	4353	3581	4153	15000	-	0.16	0.24	0.28	-
SR 166 (Maricopa Hwy): Wheeler Ridge Access Rd - Interstate 5	2500[2]	557	2239	4353	3761	4318	15000	-	0.17	0.25	0.29	-
SR 166 (Maricopa Hwy): Interstate 5 - SR 99	1800[2]	557	1539	3512	2585	3142	15000	-	0.12	0.17	0.21	-
SR 178 (24th St): SR 99 - Bay St	52000[2]	0	52000	41612	87338	87338	40000	60000	**1.30**	**2.18**	**2.18**	**1.46**
SR 178 (24th St): Bay St - 24th St Frontage Rd	24900[2]	0	24900	34415	41822	41822	30000	37500	**0.83**	**1.39**	**1.39**	**1.12**
SR 178: Fairfax Rd - Morning Dr	16500[2]	0	16500	29315	27713	27713	75000	-	0.22	0.37	0.37	-
SR 178: Morning Dr - Vineland Rd	16500[2]	0	16500	18214	27713	27713	22500	37500	0.73	**1.23**	**1.23**	0.74
SR 178: Vineland Rd - SR 184 (Kern Canyon Rd)	16500[2]	0	16500	22907	27713	27713	30000	37500	0.55	**0.92**	**0.92**	0.74
SR 178 (Kern Canyon Rd): SR 184 (Kern Canyon Rd) - Comanche Dr	12500[2]	0	12500	24503	17088	17088	15000	30000	**0.83**	**1.14**	**1.14**	0.57
SR 178 (Kern Canyon Rd): Comanche Dr - Miramonte Dr	4000[2]	0	4000	19921	5468	5468	22500	-	0.18	0.24	0.24	-
SR 178 (Kern Canyon Rd): Miramonte Dr - Rancheria Rd	4000[2]	0	4000	7879	5468	5468	15000	-	0.27	0.36	0.36	-
SR 178 (Kern Canyon Rd): Rancheria Rd - Kern Canyon Ent	4000[2]	0	4000	5834	5468	5468	15000	-	0.27	0.36	0.36	-
SR 184 (Kern Canyon Rd): Niles St - Watergrass Rd	10300[2]	0	10300	21376	14081	14081	15000	30000	0.69	**0.94**	**0.94**	0.47
SR 184 (Kern Canyon Rd): Watergrass Rd - Vineland Rd	10300[2]	0	10300	14575	14081	14081	15000	30000	0.69	**0.94**	**0.94**	0.47
SR 184 (Kern Canyon Rd): Vineland Rd - SR 178	4500[2]	0	4500	15288	6152	6152	30000	-	0.15	0.21	0.21	-
SR 223 (Bear Mtn Blvd): Interstate 5 - Gosford Rd	1400[2]	0	1400	4278	1914	1914	15000	-	0.09	0.13	0.13	-
SR 223 (Bear Mtn Blvd): Gosford Rd - Ashe Rd	3750[2]	0	3750	2389	5126	5126	15000	-	0.25	0.34	0.34	-
SR 223 (Bear Mtn Blvd): Ashe Rd - S H St	3850[2]	0	3850	10005	5263	5263	15000	-	0.26	0.35	0.35	-
SR 223 (Bear Mtn Blvd): S H St - Costajo Rd	3850[2]	0	3850	2166	5263	5263	15000	-	0.26	0.35	0.35	-
SR 223 (Bear Mtn Blvd): Costajo Rd - SR 99 NB Ramps	3850[2]	0	3850		5263	5263	15000	-	0.26	0.35	0.35	-
SR 223 (Bear Mtn Blvd): SR 99 NB Ramps - S Union Av	5950[2]	0	5950	10598	8134	8134	15000	-	0.40	0.54	0.54	-
SR 223 (Bear Mtn Blvd): S Union Av - SR 184 (Weedpatch Hwy)	6100[2]	0	6100	10800	8339	8339	15000	-	0.41	0.56	0.56	-
SR 223 (Bear Mtn Blvd): SR 184 (Weedpatch Hwy) - Comanche Dr	7050[2]	0	7050	4731	9638	9638	15000	-	0.47	0.64	0.64	-
SR 223 (Bear Mtn Blvd): Comanche Dr - A St	10200[2]	0	10200	10987	13944	13944	40000	-	0.26	0.35	0.35	-
SR 223 (Bear Mtn Blvd): A St - Tejon Hwy	9900[2]	0	9900	10987	13534	13534	40000	-	0.25	0.34	0.34	-
SR 223 (Bear Mtn Blvd): Tejon Hwy - Tower Line Rd	3800[2]	0	3800	11546	5195	5195	15000	-	0.25	0.35	0.35	-
SR 223 (Bear Mtn Blvd): Tower Line Rd - General Beale Rd	2000[2]	0	2000	4731	2734	2734	15000	-	0.13	0.18	0.18	-

Table 4
Roadway Capacity
(Continued)

Street	Existing	2035 O&G	Existing NOG	KCOG 2035	2035 NOG	2035+ Project	Existing Capacity	Mitigated Capacity	v/c(Ex) 2014	v/c(Ex) 2035	v/c(Ex) 2035+Proj	v/c(Mit) 2035+Proj
SR 223 (Bear Mtn Blvd): General Beale Rd - SR 58	1550[2]	0	1550	4507	2119	2119	15000	-	0.10	0.14	0.14	-
SR 46: SR 41 - Kecks Rd	6000[2]	0	6000	4607	8202	8202	20000	-	0.30	0.41	0.41	-
SR 46: Kecks Rd - Bitterwater Valley Rd	6800[2]	0	6800	2937	9296	9296	20000	-	0.34	0.46	0.46	-
SR 46: Bitterwater Valley Rd - SR 33	6800[2]	101	6753	11758	9232	9333	20000	-	0.34	0.46	0.47	-
SR 46: SR 33 - Brown Material Rd	7150[2]	4172	5201	12300	7110	11282	20000	-	0.36	0.36	0.56	-
SR 46: Brown Material Rd - Lost Hills Rd	7900[2]	7373	4454	15121	6089	13462	15000	30000	0.53	0.41	**0.90**	0.45
SR 46: Lost Hills Rd - Interstate 5	10000[2]	7373	6554	18713	8960	16333	15000	30000	0.67	0.60	**1.09**	0.54
SR 46: Interstate 5 - Corcoran Rd	6300[2]	2482	5140	6471	7027	9509	15000	-	0.42	0.47	0.63	-
SR 46: Corcoran Rd - Rowlee Rd	9000[2]	2482	7840	8202	10718	13200	15000	30000	0.60	0.71	**0.88**	0.44
SR 46: Rowlee Rd - Magnolia Ave	8500[2]	2482	7340	7527	10034	12516	15000	30000	0.57	0.67	**0.83**	0.42
SR 46: Magnolia Ave - Palm Ave	15500[2]	2482	14340	16828	19604	22086	15000	30000	**1.03**	**1.31**	**1.47**	0.74
SR 46: Palm Ave - SR 43 South	15500[2]	2538	14314	16828	21695	24233	20000	40000	0.78	**1.08**	**1.21**	0.61
SR 46: SR 43 South - Beech Ave	9700[2]	2538	8514	9092	11639	14177	15000	30000	0.65	0.78	**0.95**	0.47
SR 46: Beech Ave - Famoso Rd	9300[2]	2538	8114	8391	11092	13630	15000	30000	0.62	0.74	**0.91**	0.45
SR 58: 7 Mile Rd - SR 33	350[2]	0	350	562	530	530	15000	-	0.02	0.04	0.04	-
SR 58: SR 33 - Lokern Rd	2550[2]	1584	1811	991	2745	4329	15000	-	0.17	0.18	0.29	-
SR 58: Lokern Rd - Corn Camp Rd	6300[2]	5623	3675	6098	5570	11193	15000	-	0.42	0.37	0.75	-
SR 58: Corn Camp Rd - Wasco Wy	6300[2]	3893	4483	12000	6795	10688	15000	-	0.42	0.45	0.71	-
SR 58: Wasco Wy - Old Tracy Ave	7200[2]	3893	5383	8890	8159	12052	15000	-	0.48	0.54	0.80	-
SR 58: Old Tracy Ave - Tracy Ave	15000[2]	3893	13183	13633	19981	23874	15000	30000	**1.00**	**1.33**	**1.59**	0.80
SR 58: Tracy Ave - SR 43 (Enos Ln)	8700[2]	2885	7354	19333	11146	14031	15000	30000	0.58	0.74	**0.94**	0.47
SR 58 (Rosedale Hwy): SR 43 (Enos Ln) - Superior Rd	7700[2]	7613	4145	13302	5666	13279	15000	30000	0.51	0.38	**0.89**	0.44
SR 58 (Rosedale Hwy): Superior Rd - Greeley Rd	7700[2]	7613	4145	13290	5666	13279	15000	30000	0.51	0.38	**0.89**	0.44
SR 58 (Rosedale Hwy): Greeley Rd - Nord Rd	7700[2]	7613	4145	13302	5666	13279	15000	30000	0.51	0.38	**0.89**	0.44
SR 58 (Rosedale Hwy): Nord Rd - Heath Rd	8300[2]	7613	4745	18726	6487	14100	15000	30000	0.55	0.43	**0.94**	0.47
SR 58 (Rosedale Hwy): Heath Rd - Renfro Rd	8300[2]	7613	4745	25266	6487	14100	15000	30000	0.55	0.43	**0.94**	0.47
SR 58 (Rosedale Hwy): Renfro Rd - Allen Rd	25800[2]	7613	22245	32492	30410	38023	15000	45000	**1.72**	**2.03**	**2.53**	**0.84**
SR 58 (Rosedale Hwy): Allen Rd - Old Farm Rd	25800[2]	7613	22245	20262	30410	38023	40000	60000	0.65	0.76	**0.95**	0.63
SR 58 (Rosedale Hwy): Old Farm Rd - Jewetta Ave N	25800[2]	7613	22245		30410	38023	40000	60000	0.65	0.76	**0.95**	0.63
SR 58 (Rosedale Hwy): Jewetta Ave N - Calloway Dr	30345[2]	7613	26790	41008	36623	44236	40000	60000	0.76	**0.92**	**1.11**	0.74
SR 58 (Rosedale Hwy): Calloway Dr - Coffee Rd	33900[2]	7613	30345	43910	41483	49096	40000	60000	**0.85**	**1.04**	**1.23**	**0.82**
SR 58 (Rosedale Hwy): Coffee Rd - Patton Wy	36100[2]	0	36100	36789	49351	49351	40000	60000	**0.90**	**1.23**	**1.23**	**0.82**
SR 58 (Rosedale Hwy): Patton Way - Mohawk St	49500[2]	0	49500	43910	67669	67669	40000	60000	**1.24**	**1.69**	**1.69**	**1.13**
SR 58 (Rosedale Hwy): Mohawk St - SR 99	49500[2]	122	49443	61892	67591	67713	40000	60000	**1.24**	**1.69**	**1.69**	**1.13**
SR 184 (Weedpatch Hwy): SR 223 (Bear Mtn Blvd) - Sunset Blvd	3900[2]	0	3900	13877	4806	4806	15000	-	0.26	0.32	0.32	-
SR 184 (Weedpatch Hwy): Sunset Blvd - Di Giorgio Rd	10500[2]	0	10500		12940	12940	15000	30000	0.70	**0.86**	**0.86**	0.43
SR 184 (Weedpatch Hwy): Di Giorgio Rd - Panama Rd	16200[2]	0	16200	22692	19965	19965	15000	30000	**1.08**	**1.33**	**1.33**	0.67

Table 4
Roadway Capacity
(Continued)

Street	Existing	2035 O&G	Existing NOG	KCOG 2035	2035 NOG	2035+ Project	Existing Capacity	Mitigated Capacity	v/c(Ex) 2014	v/c(Ex) 2035	v/c(Ex) 2035+Proj	v/c(Mit) 2035+Proj
SR 184 (Weedpatch Hwy): Panama Rd - Mountain View Rd	10500[2]	0	10500	13677	14354	14354	15000	30000	0.70	**0.96**	**0.96**	0.48
SR 184 (Weedpatch Hwy): Mountain View Rd - Panama Ln	14600[2]	0	14600	14208	19959	19959	15000	30000	**0.97**	**1.33**	**1.33**	0.67
SR 184 (Weedpatch Hwy): Panama Ln - Muller Rd	9500[2]	0	9500	14055	12987	12987	30000	-	0.32	0.43	0.43	-
SR 184 (Weedpatch Hwy): Muller Rd - SR 58	10500[2]	0	10500	14550	14354	14354	40000	-	0.26	0.36	0.36	-
SR 184 (Weedpatch Hwy): SR 58 - Brundage Ln	19700[2]	0	19700	33598	26931	26931	40000	-	0.49	0.67	0.67	-
SR 184 (Weedpatch Hwy): Brundage Ln - Edison Hwy	16900[2]	0	16900	31871	23103	23103	40000	-	0.42	0.58	0.58	-
SR 184 (Morning Dr): Edison Hwy - Breckenridge Rd	16900[2]	0	16900		23103	23103	15000	30000	**1.13**	**1.54**	**1.54**	0.77
SR 184 (Morning Dr): Breckenridge Rd - Pioneer Dr	16900[2]	0	16900	30119	23103	23103	15000	30000	**1.13**	**1.54**	**1.54**	0.77
SR 184 (Morning Dr): Pioneer Dr - Niles St	11100[2]	0	11100	27850	15174	15174	15000	30000	0.74	**1.01**	**1.01**	0.51
SR 204 (Golden State Ave): Union Ave - SR 178	12900[2]	0	12900	85700	14324	14324	30000	-	0.43	0.48	0.48	-
SR 204 (Golden State Ave): SR 178 - SR 99	26500[2]	0	26500	48528	29426	29426	30000	40000	**0.88**	**0.98**	**0.98**	0.74
SR 33/166: Stubblefield Rd - SR 166	4100[2]	0	4100	2381	6214	6214	15000	-	0.27	0.41	0.41	-
SR 33: SR 166 - Wood St	5100[2]	427	4900	11291	7427	7854	15000	-	0.34	0.50	0.52	-
SR 33: Wood St - SR 119 (Taft Hwy)	5800[2]	3419	4203	4942	6370	9789	15000	-	0.39	0.42	0.65	-
SR 33: SR 119 (Taft Hwy) - 6th St	9300[2]	4281	7300	500	11064	15345	15000	30000	0.62	0.74	**1.02**	0.51
SR 33: 6th St - 10th St	11700[2]	4281	9700	7949	14702	18983	15000	30000	0.78	**0.98**	**1.27**	0.63
SR 33: 10th St - Midway Rd	7400[2]	4281	5400	451	8185	12466	15000	30000	0.49	0.55	**0.83**	0.42
SR 33: Midway Rd - SR 58 W	4400[2]	2565	3202	921	4853	7418	15000	-	0.29	0.32	0.49	-
SR 33: SR 58 W - Reward/Reserve Rd	4000[2]	2565	2802	2016	4247	6812	15000	-	0.27	0.28	0.45	-
SR 33: Reward/Reserve Rd - SR 58 E	4000[2]	1538	3282	2016	4974	6512	15000	-	0.27	0.33	0.43	-
SR 33: SR 58 E - Cymric Rd	1800[2]	1284	1200	1106	1819	3103	15000	-	0.12	0.12	0.21	-
SR 33: Cymric Rd - Lokern Rd	1900[2]	1284	1300	1106	1970	3254	15000	-	0.13	0.13	0.22	-
SR 33: Lokern Rd - Lost Hills Rd S	4800[2]	1868	3928	1165	5954	7822	15000	-	0.32	0.40	0.52	-
SR 33: Lost Hills Rd S - Lost Hills Rd N	4600[2]	1868	3728	1165	5650	7518	15000	-	0.31	0.38	0.50	-
SR 33: Lost Hills Rd N - 7th Standard Rd	3600[2]	1868	2728	336	4135	6003	15000	-	0.24	0.28	0.40	-
SR 33: 7th Standard Rd - Lerdo Hwy	3600[2]	3257	2079	1105	3151	6408	15000	-	0.24	0.21	0.43	-
SR 33: Lerdo Hwy - Brown Material Rd	3600[2]	4227	1626	1122	2464	6691	15000	-	0.24	0.16	0.45	-
SR 33: Brown Material Rd - SR 46	3600[2]	4242	1618	1122	2452	6694	15000	-	0.24	0.16	0.45	-
SR 33: SR 46 - Twisselman Rd	1800[2]	0	1800	873	2728	2728	15000	-	0.12	0.18	0.18	-
SR 33: Twisselman Rd - SR 41	1800[2]	0	1800	3119	2728	2728	15000	-	0.12	0.18	0.18	-
SR 43 (Enos Ln): SR 119 (Taft Hwy) - Interstate 5	6600[2]	6560	3536	9505	4834	11394	15000	-	0.44	0.32	0.76	-
SR 43 (Enos Ln): Interstate 5 - Panama Ln	6600[2]	8929	2429		3321	12250	15000	30000	0.44	0.22	**0.82**	0.41
SR 43 (Enos Ln): Panama Ln - Stockdale Hwy	8400[2]	5278	5935	9940	8113	13391	15000	30000	0.56	0.54	**0.89**	0.45
SR 43 (Enos Ln): Stockdale Hwy - Brimhall Rd	5700[2]	3517	4056	4547	5545	9062	15000	-	0.38	0.37	0.60	-
SR 43 (Enos Ln): Brimhall Rd - SR 58 (Rosedale Hwy)	5700[2]	3517	4056	4336	5545	9062	15000	-	0.38	0.37	0.60	-
SR 43 (Enos Ln): SR 58 (Rosedale Hwy) - SR 58 W	5500[2]	8566	1499	4334	2272	10838	15000	-	0.37	0.15	0.72	-
SR 43 (Enos Ln): SR 58 W - Kratzmeyer Rd	5400[2]	5681	2745	9798	4161	9842	15000	-	0.36	0.28	0.66	-

Table 4
Roadway Capacity
(Continued)

Street	Existing	2035 O&G	Existing NOG	KCOG 2035	2035 NOG	2035+ Project	Existing Capacity	Mitigated Capacity	v/c(Ex) 2014	v/c(Ex) 2035	v/c(Ex) 2035+Proj	v/c(Mit) 2035+Proj
SR 43 (Enos Ln): Kratzmeyer Rd - 7th Standard Rd	6500[2]	5681	3845	9602	5828	11509	15000	-	0.43	0.39	0.77	-
SR 43 (Enos Ln): 7th Standard Rd - Imperial St	4000[2]	0	4000	8703	6063	6063	15000	-	0.27	0.40	0.40	-
SR 43 (Beech Ave): Imperial St - Orange Ave	4000[2]	0	4000	8703	6063	6063	15000	-	0.27	0.40	0.40	-
SR 43 (Beech Ave): Orange Ave - Los Angeles Ave	4000[2]	0	4000	8230	6063	6063	15000	-	0.27	0.40	0.40	-
SR 43 (Central Valley Hwy): Los Angeles Ave - Lerdo Hwy	9600[2]	423	9402	35102	14250	14673	15000	30000	0.64	**0.95**	**0.98**	0.49
SR 43 (Central Valley Hwy): Lerdo Hwy - N Shafter Ave	9600[2]	78	9563	30155	14494	14572	15000	30000	0.64	**0.97**	**0.97**	0.49
SR 43 (Central Valley Hwy): N Shafter Ave - Dresser Ave	14000[2]	14	13993	24552	21209	21223	15000	30000	**0.93**	**1.41**	**1.41**	0.71
SR 43 (Central Valley Hwy): Dresser Ave - Kimberlina Rd	14000[2]	14	13993	32632	21209	21223	15000	30000	**0.93**	**1.41**	**1.41**	0.71
SR 43 (Central Valley Hwy): Kimberlina Rd - SR 46	10400[2]	14	10393	24609	15752	15766	40000	-	0.26	0.39	0.39	-
SR 43 (Central Valley Hwy): SR 46 - McCombs Rd	6800[2]	14	6793	4803	9286	9300	15000	-	0.45	0.62	0.62	-
SR 43 (Central Valley Hwy): McCombs Rd - Garces Hwy	6800[2]	0	6800	4763	9296	9296	15000	-	0.45	0.62	0.62	-
SR 43 (Central Valley Hwy): Garces Hwy - County Line Rd	2700[2]	0	2700	4077	3691	3691	15000	-	0.18	0.25	0.25	-
SR 65 (Porterville Hwy): Merle Haggard Dr - James Rd	15000[2]	1955	14087	27299	19258	21213	15000	30000	**1.00**	**1.28**	**1.41**	0.71
SR 65 (Porterville Hwy): James Rd - Lerdo Hwy	14300[2]	1171	13753	13955	18801	19972	15000	30000	**0.95**	**1.25**	**1.33**	0.67
SR 65 (Porterville Hwy): Lerdo Hwy - Merced Ave	11100[2]	826	10714	13767	14647	15473	15000	30000	0.74	**0.98**	**1.03**	0.52
SR 65 (Porterville Hwy): Merced Ave - Famoso Rd	6800[2]	22	6790	14128	9282	9304	15000	-	0.45	0.62	0.62	-
SR 65 (Porterville Hwy): Famoso Rd - SR 155 (Garces Hwy)	9400[2]	0	9400	10058	12850	12850	15000	30000	0.63	**0.86**	**0.86**	0.43
SR 65 (Porterville Hwy): SR 155 (Garces Hwy) - County Line Ave	8100[2]	0	8100	10548	11073	11073	15000	-	0.54	0.74	0.74	-

[1]Published ADT data
[2]Where existing data was not available, existing volumes are projected from latest previous year data.

Figure 12

Annual Average Daily Traffic (AADT) Map

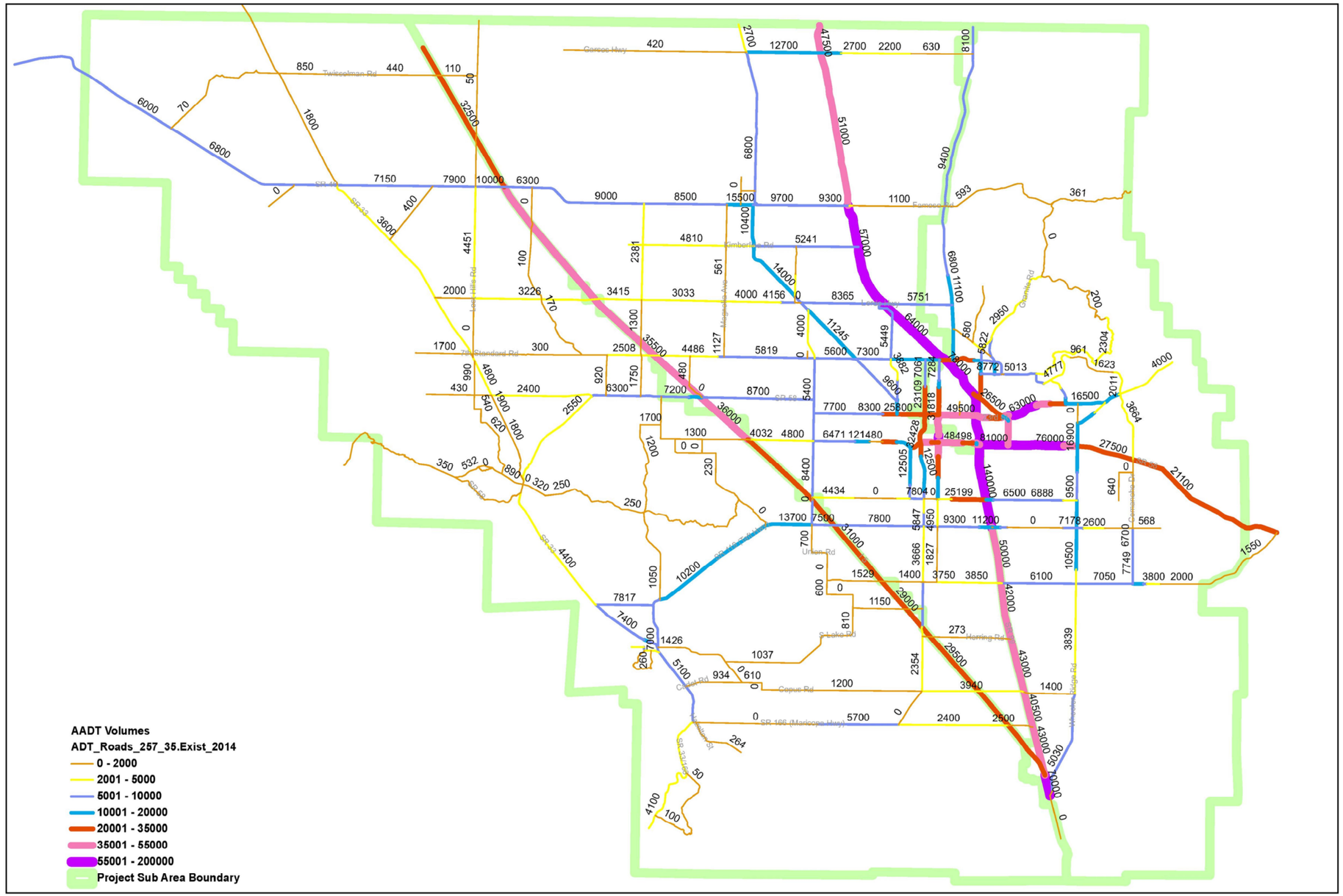


Figure 13

Existing Oil & Gas AADT Map

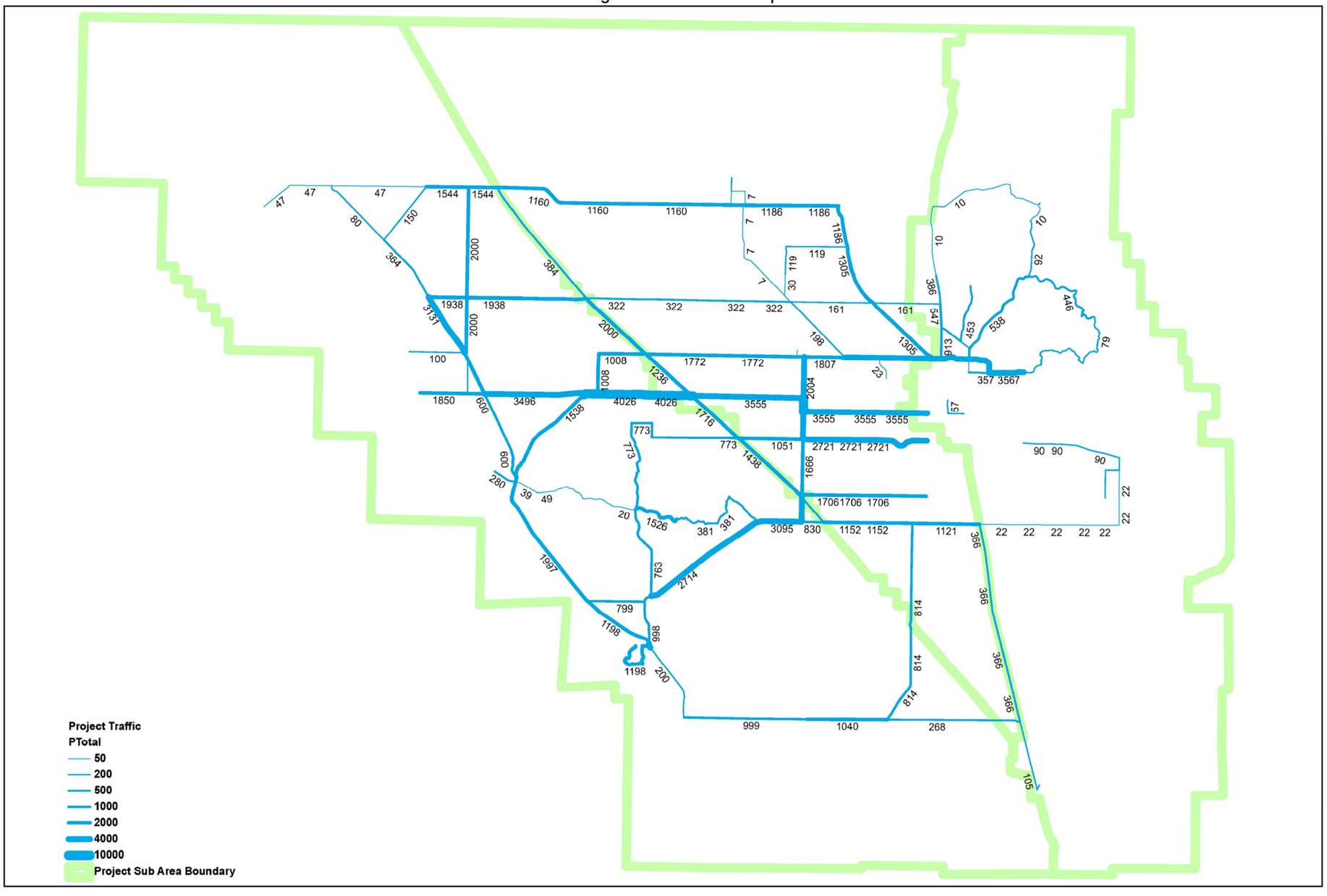


Figure 14

"2035 Non-Oil & Gas" AADT Map

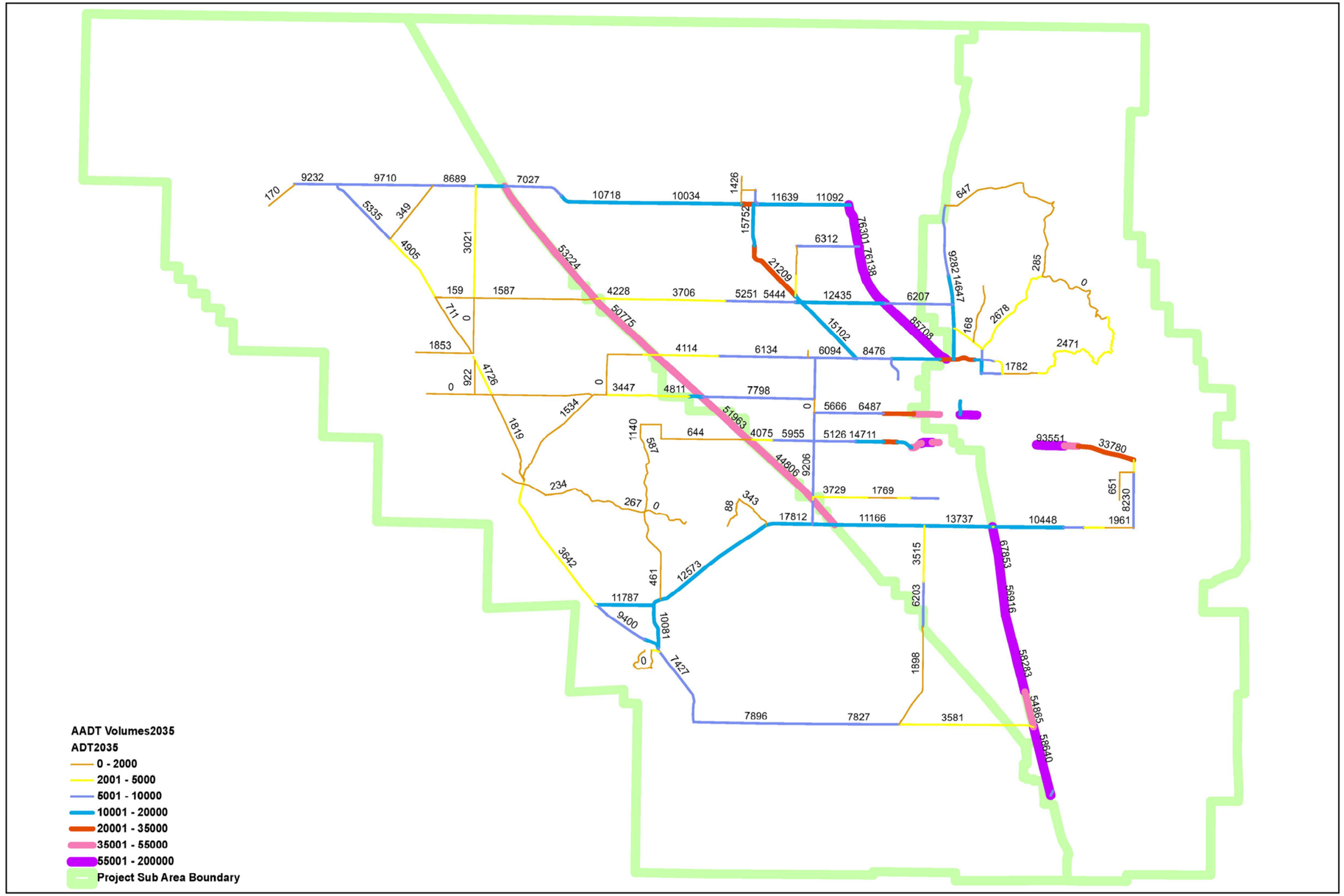


Figure 15

"2035 Oil & Gas Projection" AADT Map

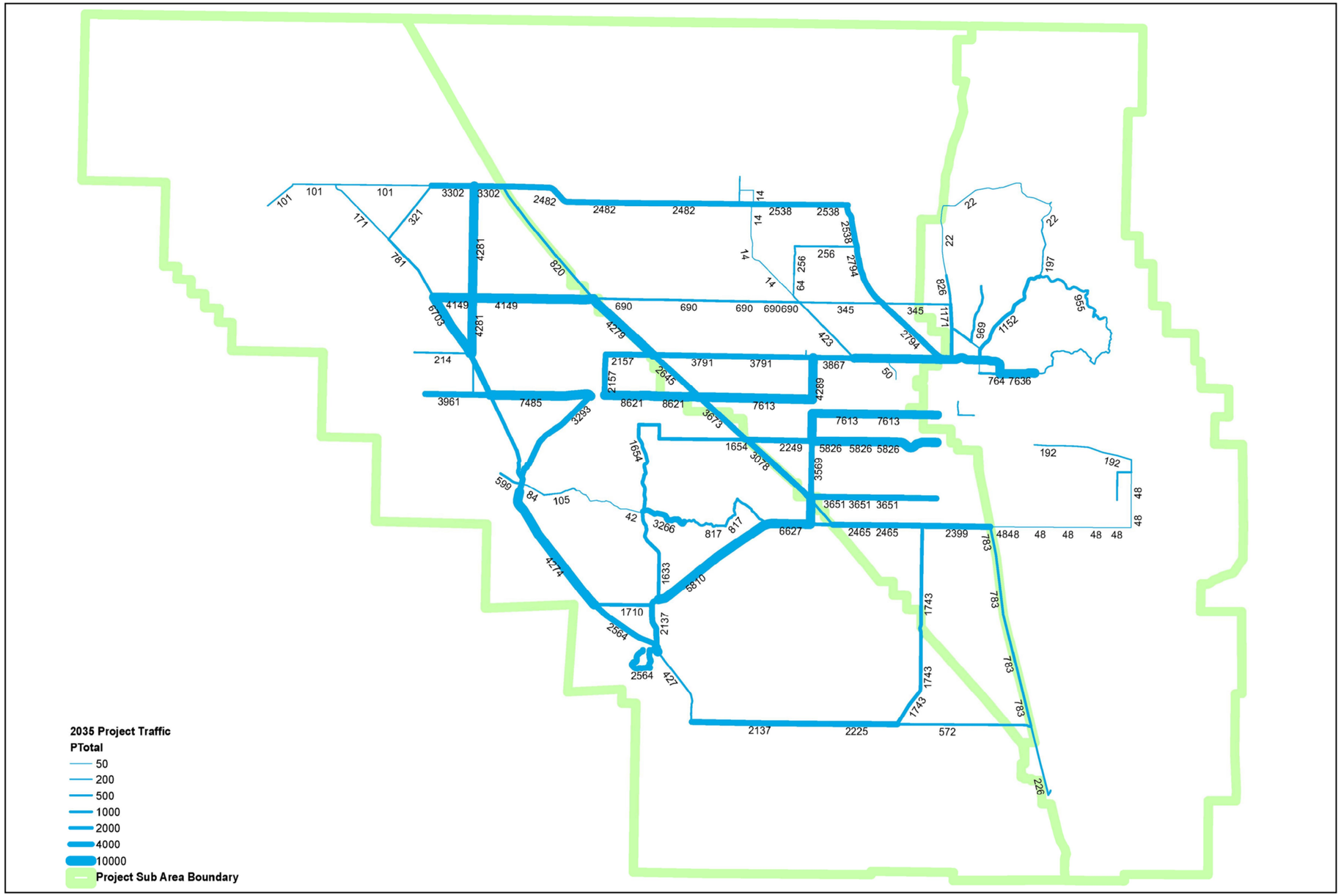


Figure 16

"2035 Non-Oil & Gas + Oil & Gas Projection" AADT Map

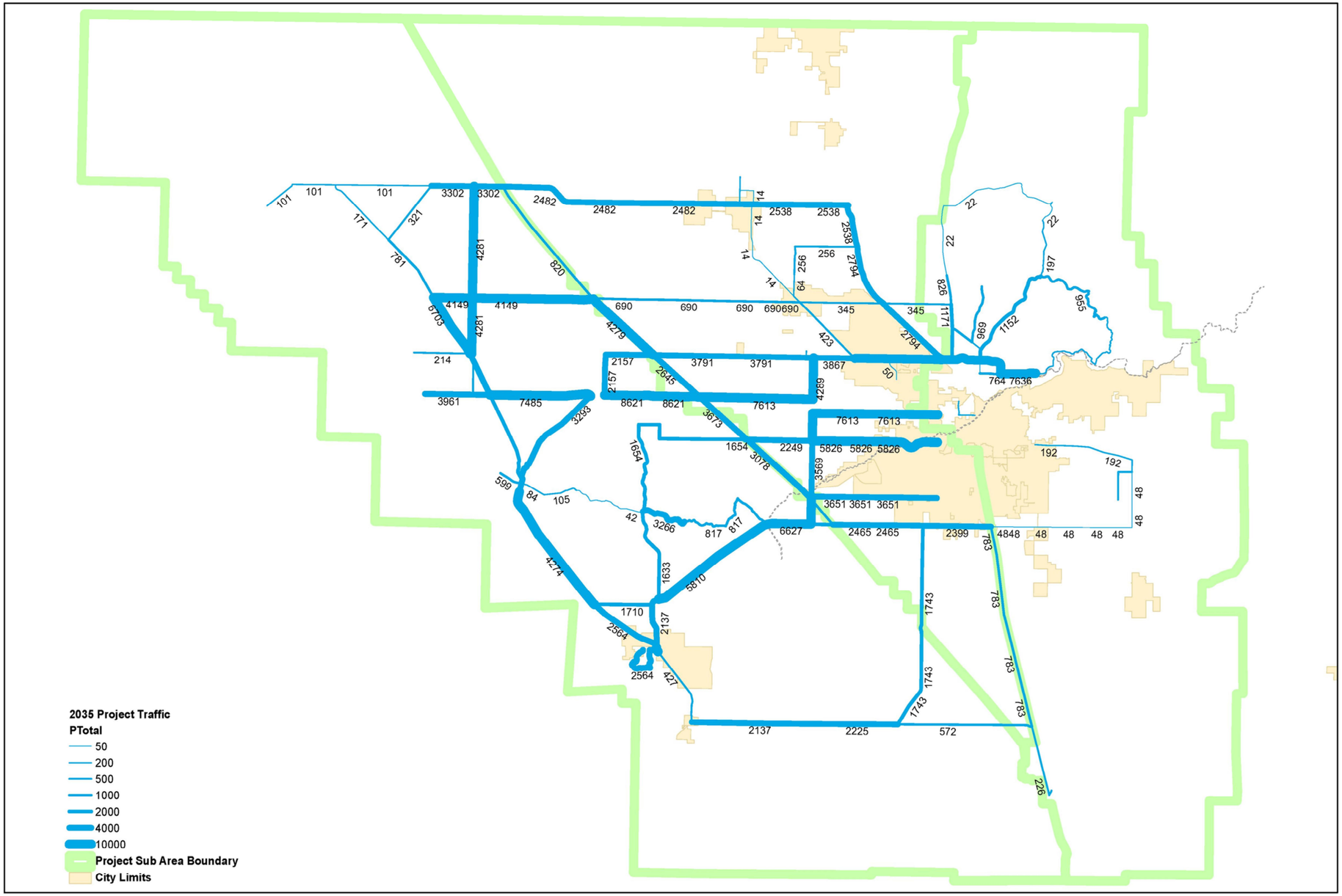


Figure 17

Existing Roadway Capacity Ratio

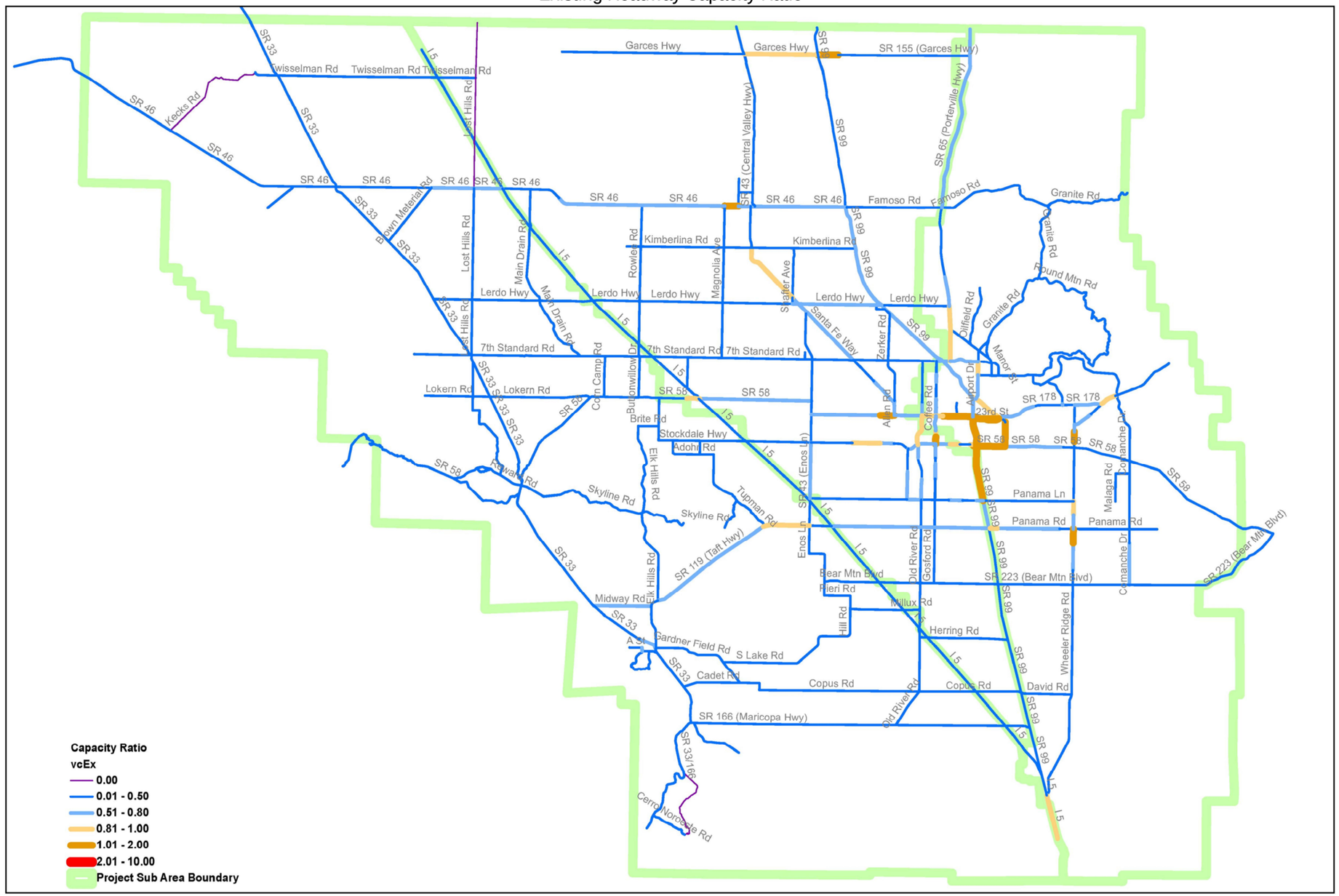


Figure 18

"2035 Non-Oil & Gas" Roadway Capacity Ratio

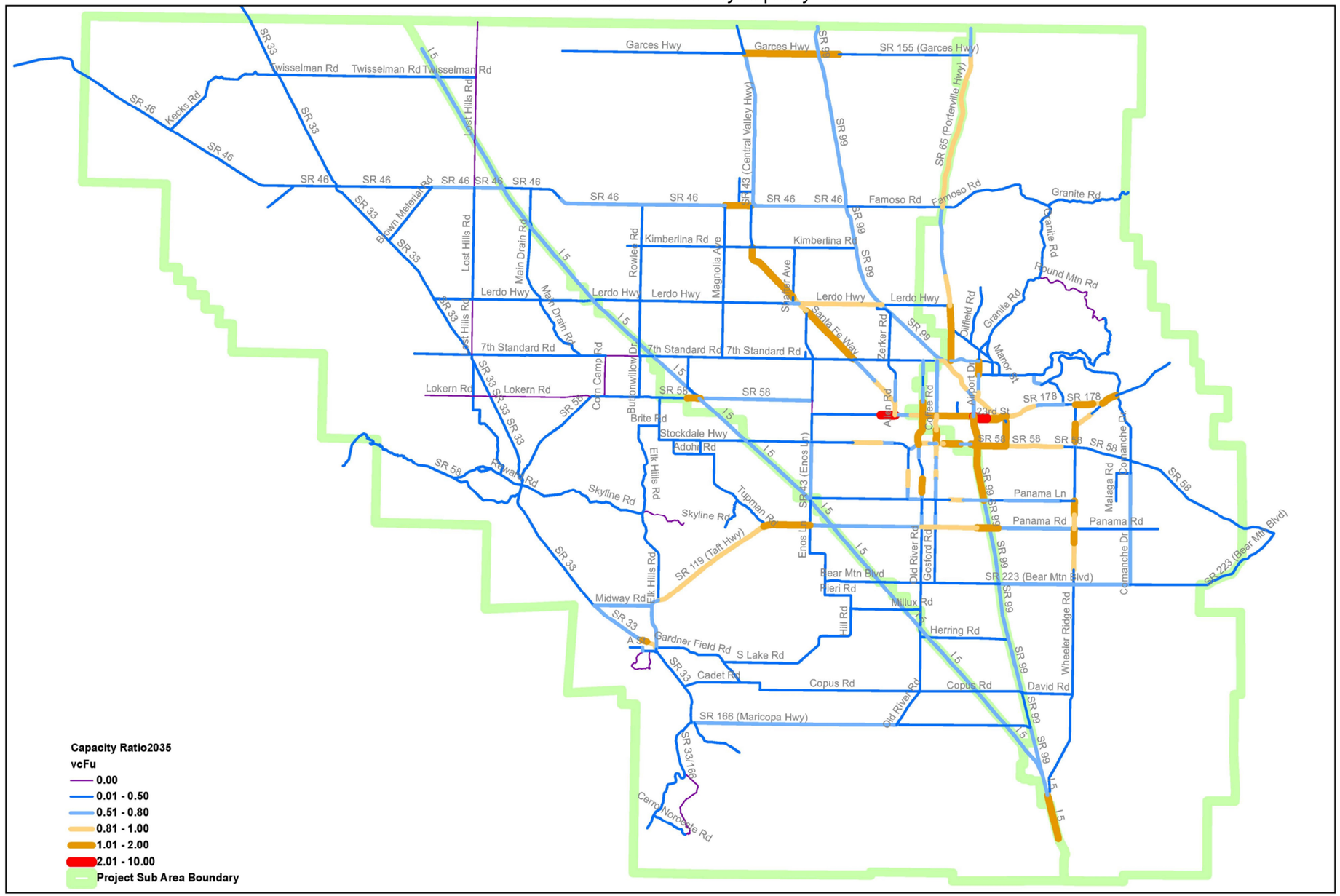
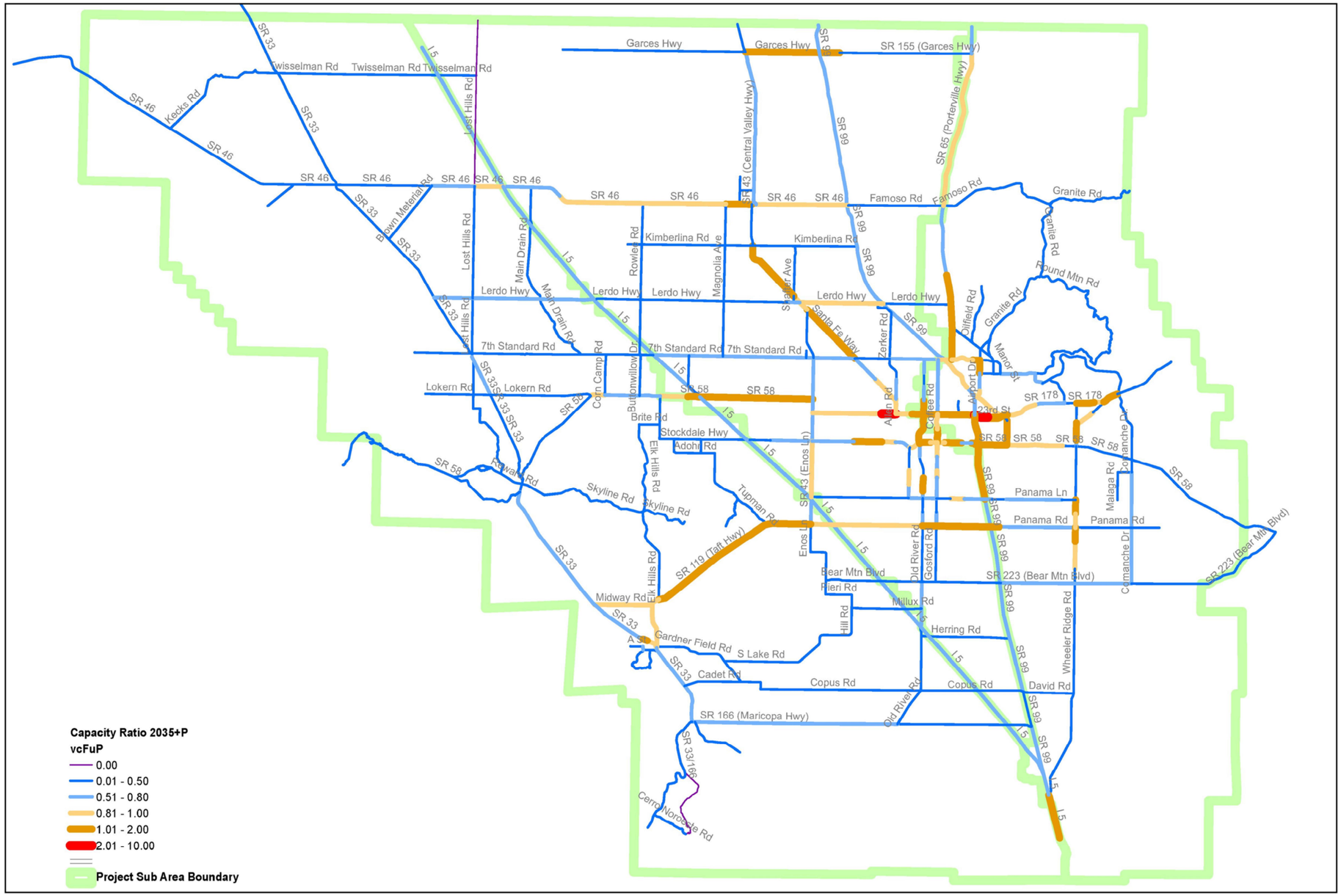


Figure 19

"2035 Non-Oil & Gas + Oil & Gas Projection" Roadway Capacity Ratio



C. Pavement Condition

Analysis of the potential impacts of future oil and gas development on the pavement condition of roadways within the study area involved estimating remaining pavement service life and assessing the need and timing for maintenance and rehabilitation improvements. The analysis was conducted for each of the study years (2015 through 2035) and included approximately 640 centerline miles of county roads and approximately 545 centerline miles of state routes.

Two primary data sources were used for the pavement condition analysis: truck load and pavement condition.

Truck Load

Heavy truck traffic is the primary factor affecting pavement condition. Pavements are designed using a Traffic Index (TI) which is a measure of the cumulative number of heavy trucks expected to load a pavement over its service life. As per Caltrans methodology, TI's are estimated by converting mixed truck loads to 18,000-pound Equivalent Single-Axle Loads (ESAL's).

A TI for a 20-year design life (standard for new roadway construction) was assigned to each study roadway. Caltrans truck count data for the year 2012 were used to develop TI estimates for state routes per Caltrans methodology. When available, design TI's obtained from record drawings were used for county roadways. For each of the remaining county roadways, TI's were estimated based on a review of KernCOG traffic count data and roadway classification. The range of 20-year TI's used for this study along with corresponding maximum ESAL values are presented in Table 5.

Table 5

TI and Maximum ESAL

Roadway Type	20-Year Traffic Index (TI)	Maximum Equivalent Single-Axle Load (ESAL)[1]
FREEWAY State	10.0 – 15.5	3,020,000 – 112,000,000
HIGHWAY State	8.0 – 12.0	487,000 – 13,500,000
ARTERIAL County	9.0 – 10.0	1,270,000 – 3,020,000
COLLECTOR County	7.0 – 8.5	164,000 – 798,000

[1]Taken from Table 613.3C, Caltrans Highway Design Manual (September 1, 2006)

Pavement Condition Data

Caltrans assesses the condition of the California State Highway System (SHS) through its Pavement Condition Survey (PCS). The PCS data collection process involves conducting pavement surface condition inspections and measuring ride quality. As defined in Table 6, PCS data are grouped into one of three pavement "condition states."

Table 6

State PCS Conditions

Pavement Condition	Condition State	Visible Distress
GOOD	**1**	Pavement in good/excellent condition No or few potholes or cracks
FAIR	**2**	Pavement in fair condition Minor surface distress (cracking, raveling and potholes)
POOR	**3**	Pavement in poor condition with extensive/significant cracks or poor ride only

Kern County assesses pavement condition using the PASER (Pavement Surface and Evaluation Rating) system. PASER ratings are assigned to County roadways based on visual surface condition inspections and range from "1" (failed pavement in need of reconstruction) to "10" (new pavement or pavement with no visible signs of distress). For the purposes of this study, PASER ratings were grouped as shown in Table 7 to generally correspond with Caltrans' pavement condition states.

Table 7

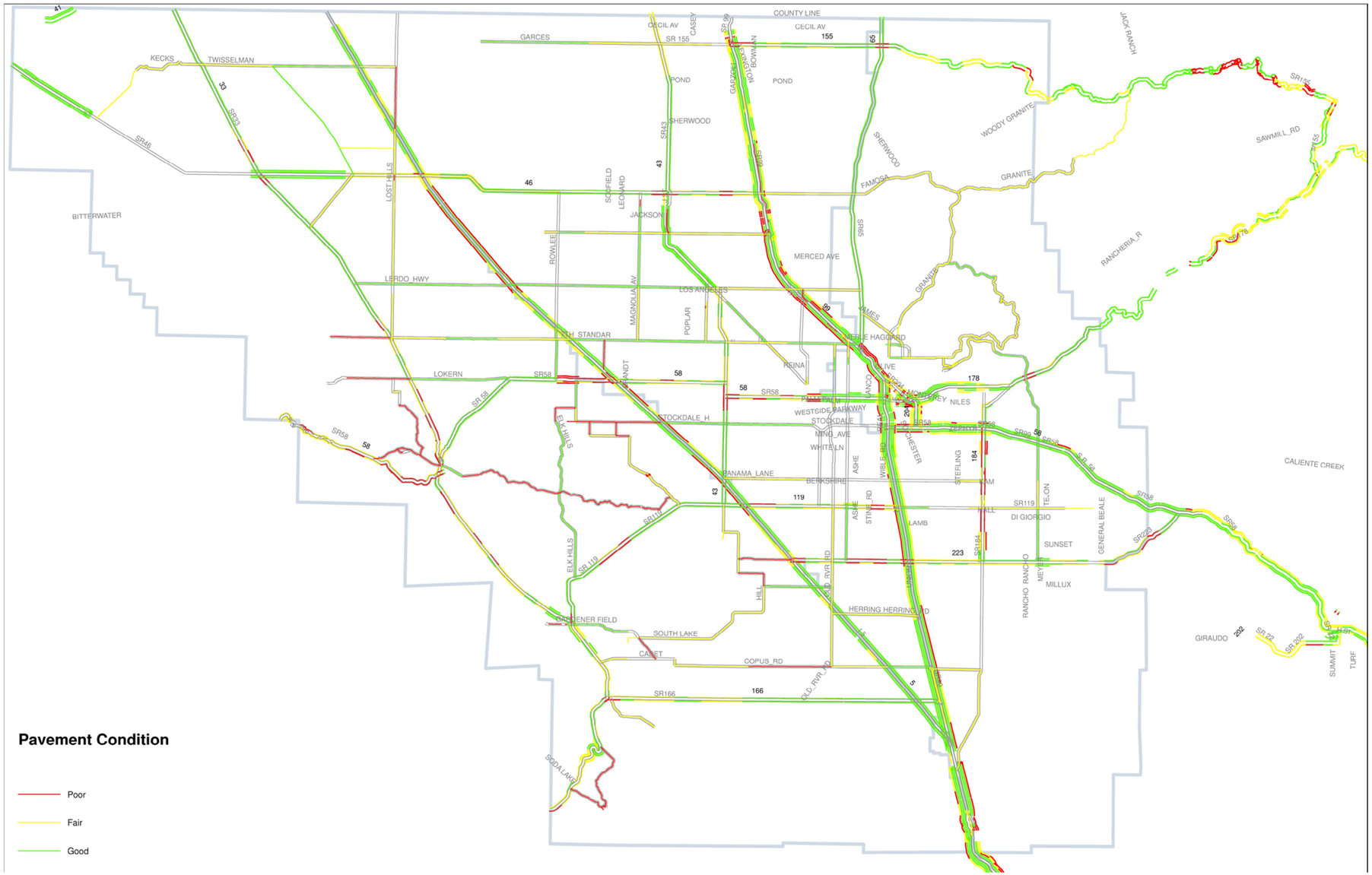
County PASER Ratings

Pavement Condition	PASER Rating	Visible Distress
GOOD	**10**	NONE (new construction)
	9	NONE (recent overlay)
	8	Sealed or light linear cracks
FAIR	**7**	Moderate linear cracks, no or light surface wear, no or few patches in excellent condition
	6	Severe linear cracks, early block cracking, light surface wear, patches in good condtion
	5	Secondary linear cracks, block cracking, moderate surface wear, patches in good condition
POOR	**4**	Multiple linear cracks, block cracking, severe surface wear, patches in fair condition, ruts
	3	Multiple linear cracks, severe block cracking, some alligator cracking, patches, ruts, potholes
	2	Alligator cracking, severe ruts, extensive patches in poor condition, potholes
	1	Extensive amounts of severe distress

PCS and PASER data for the year 2013 were used for this study. Corresponding pavement conditions (GOOD, FAIR and POOR) for roadway segments within the study area are shown in Figure 20.

Figure 20

Pavement Condition Map



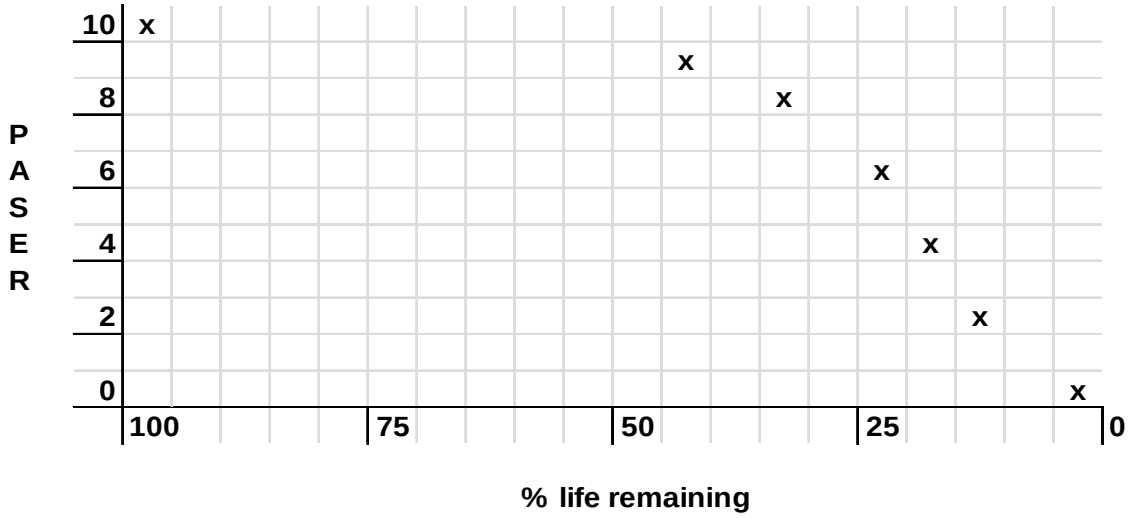
The Kern County Roads Department has a general policy goal of maintaining at least 50 percent of its roadways at or above a PASER rating of 5 (GOOD or FAIR condition). A review of the study pavement condition data revealed that county roadways within the study area met this goal in 2013. Similarly, it was also found that at least 50 percent of study area state routes were in GOOD or FAIR condition in 2013. These 2013 condition levels were used as the baseline conditions for the pavement condition analysis.

Analysis

The pavement condition analysis consisted of assessing the need and timing for maintenance and rehabilitation improvements per roadway segment per study year based on estimates of remaining pavement service life. Both remaining life and improvement needs were estimated based on a pavement life cycle curve developed for this study. The curve, presented in Figure 21, closely approximates a "typical" pavement life cycle curve and correlates PASER ratings to pavement condition.

Figure 21

Pavement Life Cycle Curve



The study pavement life cycle curve and 2013 pavement condition data were used to estimate a baseline remaining service life for each study roadway. As shown below, the baseline percentage of remaining life per roadway segment was then applied to the maximum ESAL corresponding to the roadway's twenty-year TI in order to establish the baseline ESAL total for the roadway segment.

baseline ESAL total = (baseline % remaining service life) x (maximum ESAL)

For each of the subsequent years, remaining service life per roadway segment was estimated by deducting the annual ESAL from the ESAL total for the preceding year. Annual ESAL's were calculated for each study roadway using Caltrans' methodology based on future traffic volume projections (discussed previously) and estimates of total truck and axle group percentages (developed based on Caltrans and KernCOG traffic count data).

For the purposes of this study, the need for a pavement condition improvement per study roadway per study year was identified when one of the remaining service life threshold conditions shown in Table 8a was met. The scheduling of needed improvements, as shown in Table 8b, was prioritized based on pavement condition and traffic volume, as shown in Table 9, in order to maintain the baseline pavement conditions for county roads and state routes. In general, roadways were scheduled for needed maintenance or rehabilitation in priority order (1 through 9) for each study year until these baseline conditions were met. All unscheduled improvements were deferred except for overlays when, if not done in the present year, would lead to reconstruction in the following year. The remaining life resets in Table 8a were applied in the year the corresponding pavement condition improvement was scheduled.

Table 8a

Pavement Condition Improvement

Thresholds and Resets

Type	PREVENTIVE MAINTENANCE		CORRECTIVE MAINTENANCE		MAJOR REHABILITATION		ROADWAY RECONSTRUCTION	
	Remaining Life		Remaining Life		Remaining Life		Remaining Life	
	Threshold	Reset	Threshold	Reset	Threshold	Reset	Threshold	Reset
F	28%	40%	22%	40%	19%	100%	- - -	- - -
H	28%	40%	22%	40%	16%	100%	- - -	- - -
A	28%	40%	22%	40%	16%	50%	13%	100%
C	28%	40%	22%	40%	16%	50%	6.5%	100%

F = Freeway (rigid or composite pavement)
H = Highway (flexible pavement)
A = Arterial (flexible pavement)
C = Collector (flexible pavement)

Table 8b

Pavement Condition Improvement

Maintenance and Rehabilitation Measures

Type	PREVENTIVE MAINTENANCE	CORRECTIVE MAINTENANCE	MAJOR REHABILITATION	ROADWAY RECONSTRUCTION
F	crack seal	slab replacement	CSO or PCC overlay	N/A
H	seal coat	thin overlay (nonstructural)	mill/replace or IPR	N/A
A	seal coat	local repairs and seal coat	0.20' overlay	full-depth reconstruction
C	seal coat	local repairs and seal coat	0.20' overlay	full-depth reconstruction

CSO = crack, seat and overlay
IRP = in-place recycling

Table 9

Scheduling Prioritization

Traffic Volume	Pavement Condition		
	GOOD C: PASER Rating 8 - 10 S: PCS State 1	**FAIR** C: PASER Rating 5 - 7 S: PCS State 2	**POOR** C: PASER Rating 1 - 4 S: PCS State 3
HIGH C: AADT $\geq$ 5,000 S: AADT $\geq$ 25,000	1	2	5
MEDIUM C: 2,000 $\leq$ AADT < 5,000 S: 10,000 $\leq$ AADT < 25,000	3	4	6
LOW C: AADT < 2,000 S: AADT < 10,000	7	8	9

C = County
S = State

A breakdown of roadway improvements needed over the study period (2015 through 2035) is shown in Table 10. These improvements are based on estimates of existing and future pavement conditions and include impacts attributable to oil and gas activities within the study area. The relative impact of future oil and gas development on pavement condition is addressed under "MITIGATION."

Table 10

Roadway Maintenance and Rehabilitation Summary

Study Years: 2015-2035

	Maintenance and Rehabilitation			
	Preventive Maintenance (lane miles)	Corrective Maintenance (lane miles)	Major Rehabilitation (lane miles)	Reconstruct Roadway (lane miles)
All Study Roadways	4,180	1,766	1,419	379

It is noted that preventive and corrective maintenance measures are designed to maintain pavement with little-to-moderate levels of distress in good condition and generally have an expected service life of less than ten years. It is for this reason that roadways within the scope of this study would be scheduled for preventive and corrective maintenance multiple times over the 20-year study period. In contrast, rehabilitation measures are designed to provide structural enhancement to severely distressed pavements and have an expected service life ranging from ten years for a structural overlay to twenty or more years for complete reconstruction. Consequently, study roadways would receive structural enhancement once or twice over the 20-year study period.

D. Accident History

Roadway accident history data obtained from the county and state were reviewed for this study. Potential areas of concern regarding accidents were also discussed with Kern County Roads Department staff. In general, there were no specific findings

indicating increased accidents rates on study area roadways related to oil and gas activity. Historically, the county has addressed various safety and operational issues which have arisen periodically over the years due to changes in roadway activity along oil and gas routes.

E. Geometrics

Discussions with Kern County Roads Department staff regarding potential roadway geometric concerns indicated that occasional issues regarding roadway widths, curve radii and corner returns periodically occur due to changes in large truck activity and traffic volumes on historically low traffic roadways with no, or minimum-width, paved shoulders. These issues have been dealt with in the past through the addition of paved shoulders or other miscellaneous improvements.

MITIGATION

A. Intersection LOS & Roadway Capacity

Intersection and roadway improvements needed in the years 2015 and 2035 in order to maintain or improve the operational level of service of the roadway system within the study area are shown in Tables 11 and 12, respectively. Improvements shown for the year 2035 assume that mitigation identified for the year 2015 was not completed.

Tables 11 and 12 also include the project percent share of the cost for the implementation of the noted mitigation measures. The project percent share is calculated by dividing the oil and gas traffic by the total traffic.

$$\text{Percent Share} = \frac{\text{Oil \& Gas Traffic}}{\text{Total Traffic}} \times 100$$

B. Pavement Condition

It is anticipated that the county will develop and implement a pavement condition mitigation program. The purpose of pavement condition mitigation is to ensure that project-related activities contribute a fair share for the preservation, upkeep and restoration of county roads and appurtenant facilities. The project-related activities will occur on and contribute to the general deterioration of roads throughout Kern County.

Determining when roads within the county need maintenance is necessarily qualitative and depends on various factors, including the level and type of activity, planned transportation improvements and prioritization of financial resources. The Kern County Roads Department is responsible for this evaluation and implementation of related improvements.

Unlike a traffic mitigation program that might prescribe particular improvements that are necessary to maintain an identified level of service, the pavement condition mitigation program would contribute funding to the county's general road maintenance program, as administered by the Roads Department, to fund the fair share attributable to project activities of necessary improvements to the county-wide road system, consistent with the county's existing program, expertise and prioritization.

Roadway maintenance and rehabilitation work needed to maintain or improve the pavement condition of county roads and state routes within the study area in each of the study years, 2015 through 2035, is shown in Table 12.

Table 12 also includes the project percent share of the cost to complete needed work. For each study year, the project percent share for pavement condition improvements

is based on the ratio of oil and gas truck loading to total truck loading, as shown below:

$$\text{Percent Share} = \frac{\text{Oil \& Gas Truck Loading}}{\text{Total Truck Loading}} \times 100$$

Oil and gas truck loading was estimated using the truck percentages shown below. Both the percent total trucks and percentages for the axle groups were estimated based on KernCOG truck count data for roadway segments within the study area that were assumed to be used primarily, if not almost exclusively, by oil and gas traffic.

10% oil and gas traffic = heavy trucks

- 35% = 2-axle trucks
- 10% = 3-axle trucks
- 25% = 4-axle trucks
- 30% = 5-or-more-axle trucks

Approximately 1,185 centerline miles of state routes and county roads are included in the scope of this study and were evaluated for potential pavement condition impacts resulting from oil and gas truck traffic. Approximately half of this total (approximately 593 centerline miles) was considered to be primary and secondary routes for oil and gas traffic. For the purposes of this study, specific volumes of oil and gas traffic were assigned to primary and secondary routes and a nominal volume was assumed for the remaining roadways. To account for the nominal traffic volumes, a 1 percent proportionate share for pavement condition improvements was assigned to non-primary and non-secondary routes.

Table 11

Intersection Impacts and Mitigation

Intersection[1]		Level of Service Impact			Improvements Needed by 2015	Project % Share	Improvements Needed by 2035	Total Improvement Cost ($) by 2035	Project % Share
#	Description	Existing	2035 % Growth Only	2035 NOG + O&G Projection[4]					
7	West Side Hwy (SR 33) & Paso Robles Hwy (SR 46)	-	X	X	-	-	1 WBL	$5,000.00	21.8%
8	Lost Hills Rd & Paso Robles Hwy (SR 46)	-	-	X	-	-	1 EBR, 1 WBL, 1 SBR, 1 NBR	$205,000.00	35.0%
10	SR 5 SB Off Ramp & Paso Robles Hwy (SR 46)	-	X	X	-	-	1 WBT	$150,000.00	30.5%
15	West Side Hwy (SR 33) & Lerdo Hwy	X	X	X	Signal	39.1%	Signal, 1 SBL	$340,000.00	39.1%
16	Lost Hills Rd & Lerdo Hwy	X	X	X	Signal, 1 EBL, 1 WBL	57.8%	Signal, 1 EBL, 1 EBT, 1 WBL	$540,000.00	57.8%
25	West Side Hwy (SR 33) & Lost Hills Rd	-	X	X	-	-	1 WBR	$35,000.00	37.3%
28	SR 5 SB Off Ramp & 7th Standard Rd	-	-	X		-	Signal	$190,000.00	20.2%
105	Magnolia Ave & Paso Robles Hwy (SR 46)	-	X	X	-	-	Signal, 1 EBL, 1 WBL, 1 NBL, 1 SBL	$590,000.00	14.2%
107	Central Valley Hwy (SR 43) & Paso Robles Hwy (SR 46)	X	X	X	Signal	11.3%	Signal, 1 EBL 1 NBL, 1 SBL	$640,000.00	11.3%
210	Magnolia Ave & 7th Standard Rd	-	-	X	-	-	Signal, 1 EBT	$290,000.00	42.0%
212	Enos Ln (SR 43) & 7th Standard Rd	X	X	X	Signal, 1 EBL, 1 EBT, 1 WBL, 1 NBL	34.0%	Signal, 1 EBL, 1 EBT, 1 WBL, 1 WBT, 1 NBL, 1 NBT, 1 SBT	$890,000.00	34.0%
215	West Side Hwy (SR 33) & Lokern Rd	X	X	X	Signal, 1 NBL, 1 SBL	26.4%	Signal, 1 EBL, 1 WBL, 1 NBL, 1 SBL	$790,000.00	26.4%
216	Lokern Rd & McKittrick Hwy (SR 58)	X	X	X	Signal	41.0%	SiganI, 1 WBR	$260,000.00	41.0%
220	Enos Ln (SR 43) & McKittrick Hwy (58)	X	X	X	Signal, 1 NBL	35.2%	Signal, 1 NBL, 1 SBR, Stripe EB for Dedicated R-L	$415,000.00	35.2%
225	Enos Ln (SR 43) & Stockdale Hwy	X	X	X	1 EBL, 1 WBL, 1 NBR, 1 SBL	30.7%	Signal, 1 EBL, 1 WBL, 1 NBR, 1 SBL	$340,000.00	30.7%
229	McKittrick Hwy (SR 58) & West Side Hwy (SR 33)	X	X	X	Signal	27.9%	Signal, 1 NBL, 1 NBT, 1 SBR, 1 SBT, Stripe EB for Dedicated R-L	$715,000.00	27.9%
232	Enos Ln (SR 43) & Panama Ln	X	X	X	Signal	45.7%	Signal	$190,000.00	45.7%
235	Tupman Rd & Taft Hwy (SR 119)	X	X	X	Signal	29.8%	Signal, 1 EBT, 1 EBR, 2 WBT, 1 WBR	$630,000.00	29.8%
236	Enos Ln (SR 43) & Taft Hwy (SR 119)	X	X	X	2 SBR	26.1%	1 EBL, 1 EBT, 1 EBR, 1 WBL, 1 WBT, 1 WBR, 1 NBR, 2 SBR	$575,000.00	26.1%
237	Elk Hills Rd & Taft Hwy (SR 119)	-	X	X	-	-	Signal, 1 EBT, 1 WBT	$390,000.00	26.9%
243	McKittrick Hwy (SR 58) & Reserve Rd	X	X	X	Signal	-	Signal	$190,000.00	18.5%
244	Enos Ln (SR 43) & Rosedale Hwy (SR 58)	X	X	X	Signal, 1 SBL, 1 NBL	44.5%	Signal, 1 SBL, 1 SBR, 1 NBL, 1 NBR	$560,000.00	44.5%
250	Taft Hwy (SR 119) & Midway Rd	-	X	X	-	-	1 NBT, 1 SBT	$300,000.00	19.4%
251	Golf Course Rd & Taft Hwy (SR 119)	X	X	X	Signal, 1 WBT	28.8%	Signal, 1 EBT, 2 WBT	$490,000.00	28.8%
254	Tracy Ave & McKittrick Hwy (SR 58)	X	X	X	Signal	4.2%	Signal, 1 EBT	$340,000.00	4.2%
307	SR 65 & James Rd	-	X	X	-	-	1 WBR	$35,000.00	6.1%
318	SR 99 SB Off Ramp & 7th Standard Rd	-	X	X	-	-	1 SBL	$100,000.00	8.9%
367	Enos Ln (SR 43) & I-5 NB Off Ramp	X	X	X	1 NBT, 1 NBL	49.2%	1 NBT, 1 NBL	$200,000.00	49.2%
387	I-5 NB On Ramp & Taft Hwy (SR 119)	-	X	X	-	-	Signal, 1 EBT	$290,000.00	15.1%
393	SR 99 SB Off Ramp & Taft Hwy (SR 119)	-	X	X	-	-	1 EBR	$35,000.00	4.5%
407	Old River Rd & Bear Mountain Blv (SR 223)	-	X	X	-	-	1 WBL	$100,000.00	14.6%
513	Old River Rd & Copus Rd	-	X	X	-	-	1 WBL	$100,000.00	27.2%
1002	SR 33 & Midway Rd	X	X	X	Signal	20.6%	Signal	$190,000.00	20.6%

[1]Intersections with Level Of Service below "C"

[2]Further improvements not possible; Intersection is fully expanded.

[3]Assumes no mitigation implemented in 2015.

[4](NOG)None Oil and Gas Traffic; (O&G) Oil and Gas Traffic

Table 12

Roadway Impacts and Mitigation

Roadway Segment Description[1]	No. Lanes	Level of Service			Roadway Improvement Needed by 2015	Rdwy Improve Project % Share	Roadway Improvement Required by 2035[3]	Rdwy Improve Project % Share	Pavement Condition Improvement Recommendations by Year Needed				Pvmt Improve Project % Share
		Existing	2035 % Growth Only	2035 NOG + O&G Projection[4]					Preventive Maintenance	Corrective Maintenance	Major Rehabilitation	Roadway Reconstruction	
25 Hill Rd: Wood St - South St	2	-	-	-	-	-	-	-	2018, 2027, 2035	-	-	-	36.75%
7th Standard Rd: Beech Ave - SR 43 (Enos Ln)	2	-	-	-	-	-	-	-	2018, 2030	2025	-	-	89.20%
7th Standard Rd: Brandt Rd - Beech Ave	2	-	-	-	-	-	-	-	2018, 2030	2025	-	-	88.14%
7th Standard Rd: Buttonwillow Dr - Interstate 5	2	-	-	-	-	-	-	-	-	2015	-	2022	9.66%
7th Standard Rd: Calloway Dr - Coffee Rd	4	-	-	-	-	-	-	-	2018, 2023	2029, 2034	-	-	25.51%
7th Standard Rd: Coffee Rd - Golden State Hwy	4	-	X	X	-	-	Add 2 lanes	5.29%	-	2016	-	2019	13.38%
7th Standard Rd: Corn Camp Rd - Buttonwillow Dr	2	-	-	-	-	-	-	-	-	2015	2018, 2029	-	34.11%
7th Standard Rd: Interstate 5 - Brandt Rd	2	-	-	-	-	-	-	-	2029, 2034	2023	-	-	100.00%
7th Standard Rd: Santa Fe Way - Zerker Rd	4	-	-	-	-	-	-	-	2022, 2029, 2034	-	-	-	42.54%
7th Standard Rd: SR 43 (Enos Ln) - Santa Fe Way	2	-	-	-	-	-	-	-	2015	2023, 2029, 2035	-	-	49.98%
7th Standard Rd: Verdugo Ln - Calloway Dr	4	-	-	-	-	-	-	-	-	2027, 2032	-	-	23.44%
7th Standard Rd: Wagon Wheel Rd - Lost Hills Rd	2	-	-	-	-	-	-	-	-	-	2035	2015	45.46%
7th Standard Rd: Zerker Rd - Verdugo Ln	4	-	-	-	-	-	-	-	-	2029, 2034	-	-	25.51%
Airport Dr: Merle Haggard Dr - James Rd	2	-	-	-	-	-	-	-	2022	-	2015, 2029	-	4.41%
Airport Dr: China Grade Loop - Merle Haggard Dr	2	X	X	X	Add 2 lanes	0.12%	Add 2 lanes	0.12%	2018, 2032	-	2025	-	1.00%
Zerker Rd: Olive Dr - 7th Standard Rd	2	-	-	-	-	-	-	-	2015, 2025	-	2018, 2033	-	2.24%
Beech Ave: 7th Standard Rd - Petrol Rd	2	-	-	-	-	-	-	-	2015, 2029, 2035	2023	-	-	4.96%
Bitterwater Valley Rd: S of SR 46 - SR 46	2	-	-	-	-	-	-	-	-	-	-	-	-
Brite Rd: Buttonwillow Dr - Wasco Wy	2	-	-	-	-	-	-	-	-	-	2035	2015	23.42%
Brown Material Rd: SR 33 - SR 46	2	-	-	-	-	-	-	-	2015	-	-	2027	17.58%
Buttonwillow Dr: Elk Hills Rd - Brite Rd	2	-	-	-	-	-	-	-	-	-	2035	2015	23.02%
China Grade Loop: Airport Dr - N Chester Ave	4	-	-	-	-	-	-	-	2022, 2029	-	-	-	13.95%
China Grade Loop: Manor St - Oilfield Srv Rd	2	-	-	-	-	-	-	-	-	2015	-	2022	50.01%
China Grade Loop: N Chester Ave - Manor St	4	-	-	-	-	-	-	-	2016, 2029	-	-	-	18.67%
China Grade Loop: Oilfield Srv Rd - Round Mountain Rd	2	-	-	-	-	-	-	-	2027	2015	2020, 2034	-	57.74%
Comanche Dr: Panama Rd - Mountain View Rd	2	-	-	-	-	-	-	-	-	2015	-	2022	1.00%
Comanche Dr: Mountain View Rd - Muller Rd	2	-	-	-	-	-	-	-	2015	-	-	2019	1.00%
Comanche Dr: Muller Rd - SR 58	2	-	-	-	-	-	-	-	2017	2022, 2027	-	2034	1.83%
Corn Camp Rd: SR 58 - 7th Standard Rd	2	-	-	-	-	-	-	-	2025	-	2018	2034	45.26%
Elk Hills Rd: Skyline Rd - Buttonwillow Dr	2	-	-	-	-	-	-	-	2025, 2030	-	2017	-	31.41%
Elk Hills Rd: SR 119 (Taft Hwy) - Skyline Rd	2	-	-	-	-	-	-	-	-	-	2017, 2025	-	34.06%
Famoso Rd: SR 65 (Porterville Hwy) - Granite Rd	2	-	-	-	-	-	-	-	2018	-	-	-	5.78%
Granite Rd: Garcia Rd - Famoso Rd	2	-	-	-	-	-	-	-	2029	2018	-	-	2.37%
Granite Rd: Round Mountain Rd - Garcia Rd	2	-	-	-	-	-	-	-	-	-	-	2027	22.38%
Granite Rd: James Rd - N Chester Ave Ext	2	-	-	-	-	-	-	-	2030	-	2035	2015	5.53%
Granite Rd: N Chester Ave Ext - Round Mountain Rd	2	-	-	-	-	-	-	-	-	2022, 2027	2015, 2033	-	5.72%
Interstate 5: SR 58 - 7th Standard Rd	4	-	-	-	-	-	-	-	2015, 2020	2026, 2031	-	-	1.00%
Interstate 5: 7th Standard Rd - Lerdo Hwy	4	-	-	-	-	-	-	-	2022	2017	2032	-	2.09%
Interstate 5: SR 119 (Taft Hwy) - SR 43 (Enos Ln)	4	-	-	-	-	-	-	-	2017, 2022, 2027	-	-	-	1.00%

Table 12
Roadway Impacts and Mitigation
(Continued)

Roadway Segment Description[1]	No. Lanes	Level of Service			Roadway Improvement Needed by 2015	Rdwy Improve Project % Share	Roadway Improvement Required by 2035[3]	Rdwy Improve Project % Share	Pavement Condition Improvement Recommendations by Year Needed				Pvmt Improve Project % Share
		Existing	2035 % Growth Only	2035 NOG + O&G Projection[4]					Preventive Maintenance	Corrective Maintenance	Major Rehabilitation	Roadway Reconstruction	
Interstate 5: Lerdo Hwy - SR 46	4	-	-	-	-	-	-	-	2035	-	2015	-	1.32%
Interstate 5: Stockdale Hwy - SR 58	4	-	-	-	-	-	-	-	2015, 2020	2026, 2031	-	-	1.00%
Interstate 5: S Wheeler Ridge Rd - SR 99	4	-	-	-	-	-	-	-	2034	-	2017	-	1.00%
Interstate 5: SR 43 (Enos Ln) - Stockdale Hwy	4	-	-	-	-	-	-	-	2017, 2022, 2027	2032	-	-	1.00%
Interstate 5: SR 223 (Bear Mtn Blvd) - SR 119 (Taft Hwy)	4	-	-	-	-	-	-	-	2017, 2022, 2027	2032	-	-	1.00%
James Rd: Oilfields Rd - Granite Rd	2	-	-	-	-	-	-	-	2022	2027	2015, 2034	-	1.92%
James Rd: SR 65 (Porterville Hwy) - Oilfields Rd	2	-	-	-	-	-	-	-	2022, 2035	-	2015, 2029	-	9.64%
Kimberlina Rd: Shafter Ave - SR 99	2	-	-	-	-	-	-	-	2022	2027, 2032	2015	-	4.07%
Lerdo Hwy: Interstate 5 - Rowlee Rd	2	-	-	-	-	-	-	-	2016	-	-	2022	16.02%
Lerdo Hwy: Industrial Farm Rd - SR 65 (Porterville Hwy)	2	-	-	-	-	-	-	-	2034	-	-	2015	2.40%
Lerdo Hwy: Kyte Ave - Industrial Farm Rd	2	-	-	-	-	-	-	-	2034	-	-	2015	2.40%
Lerdo Hwy: Lost Hills Rd - Interstate 5	1	-	-	-	-	-	-	-	2035	-	-	2015	25.90%
Lerdo Hwy: Magnolia Ave - Scaroni Ave	2	-	-	-	-	-	-	-	2016	-	-	2022	13.14%
Lerdo Hwy: Poplar Ave - Schnaidt St	2	-	-	-	-	-	-	-	2015	2025	2018, 2031	-	9.62%
Lerdo Hwy: Rowlee Rd - Magnolia Ave	2	-	-	-	-	-	-	-	2016	-	-	2022	18.03%
Lerdo Hwy: Scaroni Ave - Poplar Ave	2	-	-	-	-	-	-	-	2025	-	2017, 2033	-	12.71%
Lerdo Hwy: Schnaidt St - Shafter Ave	2	-	-	-	-	-	-	-	2015, 2025	2031	2017	-	7.95%
Lerdo Hwy: Shafter Ave - SR 43 (Central Valley Hwy)	2	-	-	-	-	-	-	-	2015, 2023	-	2017, 2029	-	3.27%
Lerdo Hwy: SR 33 - Lost Hills Rd	1	-	-	-	-	-	-	-	2030, 2035	-	2017	-	42.40%
Lerdo Hwy: SR 43 (Central Valley Hwy) - SR 99	2	-	X	X	-	-	Add 2 lanes	1.26%	2025	2015	2019, 2030	-	3.10%
Lerdo Hwy: SR 99 - Zerker Rd	2	-	-	-	-	-	-	-	2035	2023	2015, 2029	-	5.30%
Lerdo Hwy: Zerker Rd - Kyte Ave	2	-	-	-	-	-	-	-	2035	2023	2015, 2029	-	5.30%
Lokern Rd: Lost Hills Rd - SR 33	2	-	-	-	-	-	-	-	2034	-	2017, 2028	-	34.43%
Lokern Rd: SR 33 - SR 58	2	-	-	-	-	-	-	-	-	2015	-	2017	30.63%
Lokern Rd: W of Lost Hills Rd - Lost Hills Rd	2	-	-	-	-	-	-	-	-	-	2017, 2031	-	45.47%
Lost Hills Rd: 7th Standard Rd - Lerdo Hwy	2	-	-	-	-	-	-	-	2025	2015	2019, 2032	-	45.54%
Lost Hills Rd: Lokern Rd - SR 33	2	-	-	-	-	-	-	-	-	2034	-	2015	18.22%
Lost Hills Rd: Lerdo Hwy - SR 46	2	-	-	-	-	-	-	-	-	-	-	2015	9.98%
Malaga Rd: Panama Ln - Muller Rd	2	-	-	-	-	-	-	-	2018	-	2029	-	14.20%
Manor St: China Grade Loop - N Chester Ave	4	-	-	-	-	-	-	-	-	-	-	2015	100.00%
McCombs Rd: N Palm Ave - SR 43 (Central Valley Hwy)	2	-	-	-	-	-	-	-	-	-	2016, 2029	-	1.00%
Merle Haggard Dr: Airport Dr - N Chester Ave	4	-	-	-	-	-	-	-	2016	-	-	2022	30.50%
Merle Haggard Dr: Beach Ave - Airport Dr	2	-	X	X	-	-	Add 2 lanes	18.43%	2015	2025, 2030, 2035	2017	-	22.60%
Merle Haggard Dr: Golden State Hwy - SR 99	4	-	X	X	-	-	Add 2 lanes	5.35%	-	2016	-	2019	12.96%
Merle Haggard Dr: SR 65 (Porterville Hwy) - Beach Ave	4	-	X	X	-	-	Add 2 lanes	10.22%	2034	2015	-	2017	11.67%
Merle Haggard Dr: SR 99 - SR 65 (Porterville Hwy)	4	-	X	X	-	-	Add 2 lanes	10.45%	2034	2015	-	2017	12.37%
Midway Rd: SR 33 - SR 119 (Taft Hwy)	2	-	X	X	-	-	Add 2 lanes	7.35%	2015, 2023, 2034	-	2017, 2028	-	5.55%
Mohawk St: Westside Parkway - SR 58 (Rosedale Hwy)	6	-	-	-	-	-	-	-	2022, 2029	-	-	-	1.75%
Muller Rd: Malaga Rd - Comanche Dr	2	-	-	-	-	-	-	-	-	2018, 2023	2029	-	8.66%

Table 12
Roadway Impacts and Mitigation
(Continued)

Roadway Segment Description[1]	No. Lanes	Level of Service			Roadway Improvement Needed by 2015	Rdwy Improve Project % Share	Roadway Improvement Required by 2035[3]	Rdwy Improve Project % Share	Pavement Condition Improvement Recommendations by Year Needed				Pvmt Improve Project % Share
		Existing	2035 % Growth Only	2035 NOG + O&G Projection[4]					Preventive Maintenance	Corrective Maintenance	Major Rehabilitation	Roadway Reconstruction	
N Access Rd: Skyline Rd - Tupman Rd	2	-	-	-	-	-	-	-	-	-	2017, 2031	-	44.40%
Oilfield Rd: James Rd - N of James Rd	2	-	-	-	-	-	-	-	2015	-	2028	-	64.28%
Old River Rd: SR 166 (Maricopa Hwy) - Copus Rd	2	-	-	-	-	-	-	-	2022	2027	2015, 2034	-	17.55%
Old River Rd: Copus Rd - Interstate 5	2	-	-	-	-	-	-	-	2022	2027	2015, 2034	-	17.55%
Old River Rd: SR 223 (Bear Mtn Blvd) - SR 119 (Taft Hwy)	2	-	-	-	-	-	-	-	2025	2015, 2030	2019	-	39.78%
Old River Rd: Interstate 5 - SR 223 (Bear Mtn Blvd)	2	-	-	-	-	-	-	-	-	2022, 2027, 2032	2015	-	24.94%
Olive Ave: South St - Wood St	2	-	-	-	-	-	-	-	2018	-	-	-	100.00%
Palm Ave: SR 46 - McCombs Rd	2	-	-	-	-	-	-	-	2029	2018	-	-	12.36%
Palm Ave: McCombs Ave - Phillips Rd	2	-	-	-	-	-	-	-	2029	2018	-	-	15.82%
Panama Ln: Allen Rd - Buena Vista Rd	2	-	-	-	-	-	-	-	2025	2015, 2030	2019	-	88.07%
Panama Ln: Buena Vista Rd - Old River Rd	2	-	-	-	-	-	-	-	2015	2025, 2034	-	-	74.26%
Panama Ln: Canfield Pkwy - Heath Rd	2	-	-	-	-	-	-	-	2025	2015	2018, 2033	-	65.85%
Panama Ln: Heath Rd - Renfro Rd	2	-	-	-	-	-	-	-	-	2015	-	2022	96.03%
Panama Ln: Old River Rd - Gosford Rd	2	-	-	-	-	-	-	-	2016, 2025, 2034	-	-	-	96.03%
Panama Ln: Renfro Rd - Allen Rd	2	-	-	-	-	-	-	-	-	2015	-	2022	96.03%
Panama Ln: SR 43 (Enos Ln) - Canfield Pkwy	2	-	-	-	-	-	-	-	2025	2015, 2031	2018	-	65.35%
Panama Rd: Cottonwood Rd - Fairfax Rd	2	-	-	-	-	-	-	-	-	2016, 2022	2029	-	1.00%
Panama Rd: Edison Rd - Comanche Dr	2	-	-	-	-	-	-	-	-	2034	-	2015	1.11%
Panama Rd: Vineland Rd - Edison Rd	2	-	-	-	-	-	-	-	2031	-	-	2015	1.00%
Panama Rd: Fairfax Rd - SR 184 (Weedpatch Hwy)	2	-	-	-	-	-	-	-	2015, 2034	2023, 2029	-	-	1.00%
Panama Rd: Habecker Rd - Vineland Rd	2	-	-	-	-	-	-	-	2032	-	-	2015	1.00%
Panama Rd: SR 184 (Weedpatch Hwy) - Habecker Rd	2	-	-	-	-	-	-	-	-	-	-	2015	1.00%
Panama Rd: S Union Ave - Cottonwood Rd	2	-	-	-	-	-	-	-	-	2027, 2032	-	-	1.00%
Reserve Rd: Dirt Road - Skyline Rd	2	-	-	-	-	-	-	-	-	-	-	2029	33.64%
Reserve Rd: SR 33 - Dirt Road	2	-	-	-	-	-	-	-	-	-	-	2029	35.01%
Reward Rd: Franco Western Rd - SR 33	2	-	-	-	-	-	-	-	-	-	2015	2027	16.21%
Round Mtn Rd: Pyramid Rd - Granite Rd	2	-	-	-	-	-	-	-	2029	-	-	-	43.26%
Round Mtn Rd: China Grade Loop - Pyramid Rd	2	-	-	-	-	-	-	-	2029, 2034	-	-	-	62.49%
Santa Fe Way: 7th Standard Rd - Los Angeles Ave	2	-	X	X	-	-	Add 2 lanes	1.28%	2018, 2030, 2035	2025	-	-	5.98%
Shafter Ave: Merced Ave - Kimberlina Rd	2	-	-	-	-	-	-	-	2025	-	-	-	29.84%
Shafter Ave: SR 43 (Central Valley Hwy) - Merced Ave	2	-	-	-	-	-	-	-	2018	-	2029	-	3.86%
Skyline Rd: Elk Hills Rd - Unkown Rd	2	-	-	-	-	-	-	-	-	-	-	2025	40.10%
Skyline Rd: Unknown Rd - Elk Hills Rd	2	-	-	-	-	-	-	-	2034	-	2019	-	39.17%
Skyline Rd: Reserve Rd - Unknown Rd	2	-	-	-	-	-	-	-	2034	-	2019	-	45.15%
Skyline Rd: Unkown Rd - N Access Rd	2	-	-	-	-	-	-	-	-	-	-	2025	40.96%
SR 119 (Taft Hwy): Akers Rd - Wible Rd	2	-	X	X	-	-	Add 2 lanes	6.95%	2015, 2021, 2026	-	2035	-	8.75%
SR 119 (Taft Hwy): Allen Rd Ext - Buena Vista Rd	2	-	X	X	-	-	Add 2 lanes	8.45%	2025, 2030, 2035	2019	-	-	10.72%
SR 119 (Taft Hwy): Ashe Rd - Stine Rd	2	-	X	X	-	-	Add 2 lanes	6.95%	2015, 2021, 2026	-	2035	-	8.75%
SR 119 (Taft Hwy): Buena Vista Rd - Old River Rd	2	-	X	X	-	-	Add 2 lanes	8.25%	2017, 2035	2024, 2030	-	-	10.46%

Table 12
Roadway Impacts and Mitigation
(Continued)

Roadway Segment Description[1]	No. Lanes	Level of Service			Roadway Improvement Needed by 2015	Rdwy Improve Project % Share	Roadway Improvement Required by 2035[3]	Rdwy Improve Project % Share	Pavement Condition Improvement Recommendations by Year Needed				Pvmt Improve Project % Share
		Existing	2035 % Growth Only	2035 NOG + O&G Projection[4]					Preventive Maintenance	Corrective Maintenance	Major Rehabilitation	Roadway Reconstruction	
SR 119 (Taft Hwy): Elk Hills Rd - Tupman Rd	2	-	X	X	-	-	Add 2 lanes	18.74%	2015	-	2023	-	16.67%
SR 119 (Taft Hwy): Gosford Rd - Ashe Rd	2	-	X	X	-	-	Add 2 lanes	6.95%	2017, 2022, 2027	2032	-	-	8.75%
SR 119 (Taft Hwy): Greeley Rd Ext - Nord Rd Ext	2	-	X	X	-	-	Add 2 lanes	8.45%	2017, 2035	2024, 2030	-	-	10.72%
SR 119 (Taft Hwy): Heath Rd Ext - Renfro Rd Ext	2	-	X	X	-	-	Add 2 lanes	8.45%	-	-	2019	-	10.72%
SR 119 (Taft Hwy): Interstate 5 - Greeley Rd Ext	2	-	X	X	-	-	Add 2 lanes	8.45%	-	-	2019	-	10.72%
SR 119 (Taft Hwy): Nord Rd Ext - Heath Rd Ext	2	-	X	X	-	-	Add 2 lanes	8.45%	2030, 2035	-	-	-	10.72%
SR 119 (Taft Hwy): Old River Rd - Gosford Rd	2	-	X	X	-	-	Add 2 lanes	7.13%	2017, 2022, 2027	2032	-	-	9.00%
SR 119 (Taft Hwy): Renfro Rd Ext - Allen Rd Ext	2	-	X	X	-	-	Add 2 lanes	8.45%	2025, 2030, 2035	2019	-	-	10.72%
SR 119 (Taft Hwy): SR 33 - Elk Hills Rd	2	-	X	X	-	-	Add 2 lanes	12.78%	2024	2019	2034	-	11.04%
SR 119 (Taft Hwy): SR 43 (Enos Ln) - Interstate 5	2	-	X	X	-	-	Add 2 lanes	6.39%	-	2019, 2024	2032	-	5.35%
Taft Hwy: SR 99 - S H St	2	-	X	X	-	-	Add 2 lanes	0.11%	2015, 2023	-	2017	2029	1.00%
SR 119 (Taft Hwy): Stine Rd - Akers Rd	2	-	X	X	-	-	Add 2 lanes	6.95%	-	-	2019	-	8.75%
SR 119 (Taft Hwy): Tupman Rd - SR 43 (Enos Ln)	2	X	X	X	Add 2 lanes	15.70%	Add 3 lanes	15.70%	-	2017	2021	-	13.75%
SR 119 (Taft Hwy): Wible Rd - SR 99	2	-	X	X	-	-	Add 2 lanes	5.80%	2017	2022, 2027	2035	-	7.27%
SR 166 (Maricopa Hwy): Cappello - Old River Rd	2	-	-	-	-	-	-	-	2019	2026	-	-	8.83%
SR 166 (Maricopa Hwy): Interstate 5 - SR 99	2	-	-	-	-	-	-	-	2026	-	-	-	7.02%
SR 166 (Maricopa Hwy): Old River Rd - Wheeler Ridge Access Rd	2	-	-	-	-	-	-	-	2026	-	-	-	5.40%
SR 166 (Maricopa Hwy): SR 33 - Cappello	2	-	-	-	-	-	-	-	2017	2024, 2030, 2035	-	-	8.48%
SR 166 (Maricopa Hwy): Wheeler Ridge Access Rd - Interstate 5	2	-	-	-	-	-	-	-	2026	-	-	-	5.05%
SR 33: 6th St - 10th St	2	-	X	X	-	-	Add 2 lanes	10.54%	2017	-	2024	-	8.71%
SR 33: SR 119 (Taft Hwy) - 6th St	2	-	X	X	-	-	Add 2 lanes	13.03%	2017	-	2025	-	10.95%
SR 33: Lost Hills Rd N - 7th Standard Rd	2	-	-	-	-	-	-	-	2019, 2026, 2034	-	-	-	12.33%
SR 33: Lerdo Hwy - Brown Material Rd	2	-	-	-	-	-	-	-	-	-	2034	-	27.92%
SR 33: SR 58 E - Cymric Rd	2	-	-	-	-	-	-	-	-	-	2035	-	16.98%
SR 33: 7th Standard Rd - Lerdo Hwy	2	-	-	-	-	-	-	-	2019, 2026, 2034	-	-	-	21.52%
SR 33: Cymric Rd - Lokern Rd	2	-	-	-	-	-	-	-	-	2020	-	-	16.08%
SR 33: Lost Hills Rd S - Lost Hills Rd N	2	-	-	-	-	-	-	-	2015	-	2031	-	9.65%
SR 33: Lokern Rd - Lost Hills Rd S	2	-	-	-	-	-	-	-	-	-	2019	-	9.25%
SR 33: 10th St - Midway Rd	2	-	X	X	-	-	Add 2 lanes	16.04%	-	2017	2026	-	13.76%
SR 33: Wood St - SR 119 (Taft Hwy)	2	-	-	-	-	-	-	-	-	2017	2030	-	14.02%
SR 33: Brown Material Rd - SR 46	2	-	-	-	-	-	-	-	2019, 2026, 2034	-	-	-	28.04%
SR 33: Midway Rd - SR 58 W	2	-	-	-	-	-	-	-	2015	-	2032	-	13.87%
SR 33: Reward/Reserve Rd - SR 58 E	2	-	-	-	-	-	-	-	-	-	2027	-	9.14%
SR 33: SR 58 W - Reward/Reserve Rd	2	-	-	-	-	-	-	-	2015, 2024, 2032	-	-	-	15.25%
SR 33: SR 166 - Wood St	2	-	-	-	-	-	-	-	2024, 2030, 2035	2017	-	-	2.00%
SR 43 (Central Valley Hwy): N Shafter Ave - Dresser Ave	4	X	X	X	Add 2 lanes	0.03%	Add 2 lanes	0.03%	2017, 2022	2027	2035	-	1.00%
SR 43 (Central Valley Hwy): Dresser Ave - Kimberlina Rd	4	X	X	X	Add 2 lanes	0.03%	Add 2 lanes	0.03%	2017, 2022	2027	2035	-	1.00%
SR 43 (Central Valley Hwy): Los Angeles Ave - Lerdo Hwy	2	-	X	X	-	-	Add 2 lanes	1.35%	2015, 2021, 2026	-	-	-	1.58%
SR 43 (Central Valley Hwy): SR 46 - McCombs Rd	2	-	-	-	-	-	-	-	2019, 2026	-	-	-	1.00%

Table 12
Roadway Impacts and Mitigation
(Continued)

Roadway Segment Description[1]	No. Lanes	Level of Service			Roadway Improvement Needed by 2015	Rdwy Improve Project % Share	Roadway Improvement Required by 2035[3]	Rdwy Improve Project % Share	Pavement Condition Improvement Recommendations by Year Needed				Pvmt Improve Project % Share
		Existing	2035 % Growth Only	2035 NOG + O&G Projection[4]					Preventive Maintenance	Corrective Maintenance	Major Rehabilitation	Roadway Reconstruction	
SR 43 (Central Valley Hwy): Lerdo Hwy - N Shafter Ave	4	-	X	X	-	-	Add 2 lanes	0.25%	2019, 2025, 2031	-	-	-	1.00%
SR 43 (Central Valley Hwy): Kimberlina Rd - SR 46	4	-	-	-	-	-	-	-	2017, 2035	2024, 2030	-	-	1.00%
SR 43 (Enos Ln): Kratzmeyer Rd - 7th Standard Rd	2	-	-	-	-	-	-	-	2021	2030	-	-	31.22%
SR 43 (Enos Ln): Stockdale Hwy - Brimhall Rd	2	-	-	-	-	-	-	-	-	-	2034	-	23.23%
SR 43 (Enos Ln): SR 119 (Taft Hwy) - Interstate 5	2	-	-	-	-	-	-	-	2019, 2024	2030	-	-	24.91%
SR 43 (Enos Ln): SR 58 W - Kratzmeyer Rd	2	-	-	-	-	-	-	-	2015, 2034	2026	-	-	37.58%
SR 43 (Enos Ln): Interstate 5 - Panama Ln	2	-	X	X	-	-	Add 2 lanes	34.05%	2021	2030	-	-	50.90%
SR 43 (Enos Ln): Brimhall Rd - SR 58 (Rosedale Hwy)	2	-	-	-	-	-	-	-	-	-	2034	-	23.23%
SR 43 (Enos Ln): SR 58 (Rosedale Hwy) - SR 58 W	2	-	-	-	-	-	-	-	-	-	2034	-	55.60%
SR 43 (Enos Ln): Panama Ln - Stockdale Hwy	2	-	X	X	-	-	Add 2 lanes	18.41%	2019, 2032	2026	-	-	23.63%
SR 46: Beech Ave - Famoso Rd	2	-	X	X	-	-	Add 2 lanes	8.70%	2017, 2026	-	-	-	10.27%
SR 46: Bitterwater Valley Rd - SR 33	4	-	-	-	-	-	-	-	2026	-	-	-	1.00%
SR 46: Brown Material Rd - Lost Hills Rd	2	-	X	X	-	-	Add 2 lanes	25.60%	2032	2024	-	-	23.41%
SR 46: Corcoran Rd - Rowlee Rd	2	-	X	X	-	-	Add 2 lanes	8.79%	2019, 2031	-	-	-	10.38%
SR 46: Interstate 5 - Corcoran Rd	2	-	-	-	-	-	-	-	2019, 2035	-	-	-	14.83%
SR 46: Lost Hills Rd - Interstate 5	2	-	X	X	-	-	Add 2 lanes	21.10%	2015, 2021	-	-	-	18.49%
SR 46: Magnolia Ave - Palm Ave	2	X	X	X	Add 2 lanes	5.25%	Add 2 lanes	5.25%	2026, 2032	-	-	-	6.03%
SR 46: Palm Ave - SR 43 South	2	-	X	X	-	-	Add 2 lanes	4.89%	2019, 2026, 2032	-	-	-	5.85%
SR 46: Rowlee Rd - Magnolia Ave	2	-	X	X	-	-	Add 2 lanes	9.27%	2026	-	-	-	10.99%
SR 46: SR 33 - Brown Material Rd	4	-	-	-	-	-	-	-	-	2026	-	-	14.63%
SR 46: SR 43 South - Beech Ave	2	-	X	X	-	-	Add 2 lanes	8.37%	2017, 2026	-	-	-	9.85%
SR 58 (Rosedale Hwy): Allen Rd - Old Farm Rd	4	-	X	X	-	-	Add 2 lanes	9.35%	-	-	2017	-	11.10%
SR 58 (Rosedale Hwy): Calloway Dr - Coffee Rd	5	X	X	X	Add 2 lanes	7.24%	Add 2 lanes	7.24%	-	-	2019	-	8.45%
SR 58 (Rosedale Hwy): Greeley Rd - Nord Rd	2	-	X	X	-	-	Add 2 lanes	26.77%	2019, 2026, 2032	-	-	-	37.18%
SR 58 (Rosedale Hwy): Heath Rd - Renfro Rd	2	-	X	X	-	-	Add 2 lanes	25.21%	2019, 2032	2026	-	-	34.49%
SR 58 (Rosedale Hwy): Jewetta Ave N - Calloway Dr	4	-	X	X	-	-	Add 2 lanes	8.04%	2015	-	2019	-	9.43%
SR 58 (Rosedale Hwy): Mohawk St - SR 99	4	X	X	X	Add 2 lanes	0.08%	Add 2 lanes	0.08%	2015	-	2017	-	1.00%
SR 58 (Rosedale Hwy): Nord Rd - Heath Rd	2	-	X	X	-	-	Add 2 lanes	25.21%	2019, 2032	2026	-	-	34.49%
SR 58 (Rosedale Hwy): Old Farm Rd - Jewetta Ave N	4	-	X	X	-	-	Add 2 lanes	9.35%	-	-	2017	-	11.10%
SR 58 (Rosedale Hwy): Renfro Rd - Allen Rd	2	-[2]	-[2]	-[2]	-	-	-	-	-	-	2017	-	11.10%
SR 58 (Rosedale Hwy): SR 43 (Enos Ln) - Superior Rd	2	-	X	X	-	-	Add 2 lanes	26.77%	2024, 2030	2017	-	-	37.18%
SR 58 (Rosedale Hwy): Superior Rd - Greeley Rd	2	-	X	X	-	-	Add 2 lanes	26.77%	2024, 2030	2017	-	-	37.18%
SR 58: Corn Camp Rd - Wasco Wy	2	-	-	-	-	-	-	-	2019, 2024	2030, 2035	-	-	14.69%
SR 58: Fairfax Rd - SR 184 (Weedpatch Hwy)	6	-	-	-	-	-	-	-	2019, 2026, 2032	-	-	-	1.00%
SR 58: Lokern Rd - Corn Camp Rd	2	-	-	-	-	-	-	-	2019, 2024	2030	-	-	21.22%
SR 58: Mt Vernon Ave - Fairfax Rd	6	-	-	-	-	-	-	-	2017	-	2026	-	1.00%
SR 58: Old Tracy Ave - Tracy Ave	2	-[2]	-[2]	-[2]	-	-	-	-	-	-	2017	-	6.17%
SR 58: SR 184 (Weedpatch Hwy) - Comanche Dr	4	-	-	-	-	-	-	-	2019, 2024	2031	-	-	1.00%
SR 58: SR 33 - Lokern Rd	2	-	-	-	-	-	-	-	-	2027	-	-	14.76%

Table 12
Roadway Impacts and Mitigation
(Continued)

Roadway Segment Description[1]	No. Lanes	Level of Service			Roadway Improvement Needed by 2015	Rdwy Improve Project % Share	Roadway Improvement Required by 2035[3]	Rdwy Improve Project % Share	Pavement Condition Improvement Recommendations by Year Needed				Pvmt Improve Project % Share
		Existing	2035 % Growth Only	2035 NOG + O&G Projection[4]					Preventive Maintenance	Corrective Maintenance	Major Rehabilitation	Roadway Reconstruction	
SR 58: Tracy Ave - SR 43 (Enos Ln)	2	-	X	X	-	-	Add 2 lanes	9.59%	2017, 2035	2024, 2030	-	-	11.82%
SR 58: Wasco Wy - Old Tracy Ave	2	-	-	-	-	-	-	-	2020	2015	2026	-	12.85%
SR 65 (Porterville Hwy): Merced Ave - Famoso Rd	2	-	-	-	-	-	-	-	2019, 2026	2034	-	-	1.00%
SR 65 (Porterville Hwy): Merle Haggard Dr - James Rd	2	X	X	X	Add 2 lanes	4.30%	Add 2 lanes	4.30%	2017	-	2025	-	4.82%
SR 65 (Porterville Hwy): James Rd - Lerdo Hwy	2	X	X	X	Add 2 lanes	2.74%	Add 2 lanes	2.74%	2017	-	2025	-	3.03%
SR 65 (Porterville Hwy): Lerdo Hwy - Merced Ave	2	-	X	X	-	-	Add 2 lanes	2.49%	2024	2019	2034	-	2.75%
SR 99: SR 166 - Copus Rd	6	-	-	-	-	-	-	-	2019, 2031	-	-	-	1.00%
SR 99: Copus Rd - Herring Rd	6	-	-	-	-	-	-	-	2019, 2030	-	-	-	1.00%
SR 99: Lerdo Hwy - Kimberlina Rd	6	-	-	-	-	-	-	-	2015, 2024, 2032	-	-	-	1.00%
SR 99: 7th Standard Rd - Lerdo Hwy	6	-	-	-	-	-	-	-	2017, 2025, 2032	-	-	-	1.00%
SR 99: SR 223 (Bear Mtn Blvd) - SR 119 (Taft Hwy)	6	-	-	-	-	-	-	-	2017, 2026, 2035	-	-	-	1.00%
SR 99: Interstate 5 - SR 166	6	-	-	-	-	-	-	-	2021, 2032	-	-	-	1.00%
SR 99: Herring Rd - SR 223 (Bear Mtn Blvd)	6	-	-	-	-	-	-	-	2021, 2032	-	-	-	1.00%
SR 99: Kimberlina Rd - SR 46	6	-	-	-	-	-	-	-	2017, 2026, 2032	-	-	-	1.00%
Stockdale Hwy: Allen Rd - Buena Vista Rd	4	-	-	-	-	-	-	-	2016, 2025	-	2020, 2030	-	27.26%
Stockdale Hwy: Buena Vista Rd - Old River Rd	6	-	-	-	-	-	-	-	2017, 2029	2034	2022	-	27.00%
Stockdale Hwy: Bussell Rd - SR 43 (Enos Ln)	2	-	-	-	-	-	-	-	2015	2025, 2030	2018, 2035	-	33.01%
Stockdale Hwy: Don Hart Dr E - Coffee Rd	6	-	-	-	-	-	-	-	2016	-	-	2022	24.62%
Stockdale Hwy: Heath Rd - Renfro Rd	2	X	X	X	Add 2 lanes	14.10%	Add 2 lanes	14.10%	2016	-	-	2022	36.74%
Stockdale Hwy: Int 5 NB Ramps - Bussell Rd	2	-	-	-	-	-	-	-	2016	-	-	2022	44.27%
Stockdale Hwy: Int 5 SB Ramps - Int 5 NB Ramps	2	-	-	-	-	-	-	-	-	2035	2018	-	100.00%
Stockdale Hwy: Morris Rd - Int 5 SB Ramps	2	-	-	-	-	-	-	-	2034	2023	2015, 2029	-	25.41%
Stockdale Hwy: Nord Ave - Heath Rd	2	X	X	X	Add 2 lanes	13.25%	Add 2 lanes	13.25%	2016, 2025	-	2020, 2030	-	34.28%
Stockdale Hwy: Old River Rd - Don Hart Dr E	6	-	-	-	-	-	-	-	2016, 2025	-	2020, 2030	-	21.14%
Stockdale Hwy: Renfro Rd - Allen Rd	4	-	X	X	-	-	Add 2 lanes	7.41%	2034	2016	-	2019	18.26%
Stockdale Hwy: SR 43 (Enos Ln) - Nord Ave	2	-	-	-	-	-	-	-	2016	2023, 2029, 2034	-	-	71.42%
Stockdale Hwy: Wasco Wy - Morris Rd	2	-	-	-	-	-	-	-	2023	2029	2015	-	30.63%
Taft Hwy: Chevalier Rd - S Union Ave	2	-	-	-	-	-	-	-	2029, 2034	-	-	-	1.00%
Taft Hwy: S H St - Chevalier Rd	2	X	X	X	Add 2 lanes	0.12%	Add 2 lanes	0.12%	-	2016, 2022	-	2029	1.00%
Tupman Rd: SR 119 - N Access Rd	2	-	-	-	-	-	-	-	-	2025	2018, 2032	-	29.60%
Wasco Wy: Stockdale Hwy - Brite Rd	2	-	-	-	-	-	-	-	2025	2015, 2030	2019	-	22.76%
Wheeler Ridge Rd: Interstate 5 - Del Sol Dr	2	-	-	-	-	-	-	-	2034	-	-	2015	1.61%
Wood St: Olive Ave - SR 33	2	-	-	-	-	-	-	-	-	2025	2018, 2030	-	90.44%
Zerker Rd: Olive Dr - 7th Standard Rd	2	-	-	-	-	-	-	-	2015, 2025	-	2018, 2033	-	2.24%
A St: Terrace Dr - S 10th St	2	-	-	-	-	-	-	-	-	2023	2016, 2029	-	1.00%
Adohr Rd: Freeborn Rd - Tupman Rd	2	-	-	-	-	-	-	-	-	-	2023	-	1.00%
Airport Dr: Roberts Ln - China Grade Loop	4	-	-	-	-	-	-	-	2017	2022, 2027, 2032	-	-	1.00%
Airport Dr: SR 99 - Roberts Ln	4	-	X	X	-	-	-	-	2016	2027, 2032	2020	-	1.00%
Alfred Harrell Hwy: China Grade Loop - Fairfax Rd	4	-	-	-	-	-	-	-	2034	-	-	2015	1.00%

Table 12
Roadway Impacts and Mitigation
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Roadway Segment Description[1]	No. Lanes	Level of Service			Roadway Improvement Needed by 2015	Rdwy Improve Project % Share	Roadway Improvement Required by 2035[3]	Rdwy Improve Project % Share	Pavement Condition Improvement Recommendations by Year Needed				Pvmt Improve Project % Share
		Existing	2035 % Growth Only	2035 NOG + O&G Projection[4]					Preventive Maintenance	Corrective Maintenance	Major Rehabilitation	Roadway Reconstruction	
Alfred Harrell Hwy: Fairfax Rd - Hart Park Ent	4	-	-	-	-	-	-	-	2034	-	2018, 2028	-	1.00%
Alfred Harrell Hwy: Hart Park Ent - Morning Dr	2	-	-	-	-	-	-	-	2035	2018	-	-	1.00%
Alfred Harrell Hwy: Lake Ming Rd - SR 178	2	-	-	-	-	-	-	-	-	-	2029	-	1.00%
Alfred Harrell Hwy: Morning Dr - Lake Ming Rd	2	-	-	-	-	-	-	-	2023	-	-	-	1.00%
Allen Rd: SR 58 (Rosedale Hwy) - Hageman Rd	4	-	X	X	-	-	-	-	2018, 2023	2029, 2034	-	-	1.00%
Allen Rd: Reina Rd - Olive Dr	2	-	-	-	-	-	-	-	2016, 2025	-	2020, 2030	-	1.00%
Allen Rd: Hageman Rd - Reina Rd	2	-	-	-	-	-	-	-	2016, 2027	-	2021, 2033	-	1.00%
Basic School Rd: Copus Rd - Gardner Field Rd	2	-	-	-	-	-	-	-	2034	-	2018, 2028	-	1.00%
Bear Mtn Blvd: Coles Levee Rd - Interstate 5	2	-	-	-	-	-	-	-	-	2025, 2030, 2035	2017	-	1.00%
Buena Vista Rd: White Ln - Ming Ave	4	-	-	-	-	-	-	-	2015, 2022, 2034	2029	-	-	1.00%
Buena Vista Rd: Panama Ln - Pacheco Rd	2	-	-	-	-	-	-	-	2023	-	2017	2029	1.00%
Buena Vista Rd: Ming Ave - Stockdale Hwy	4	-	-	-	-	-	-	-	2015, 2022, 2034	2029	-	-	1.00%
Buena Vista Rd: Pacheco Rd - White Ln	3	-	X	X	-	-	-	-	-	2015	-	2019	1.00%
Buttonwillow Dr: SR 58 - 7th Standard Rd	2	-	-	-	-	-	-	-	2015, 2034	-	-	2018	1.00%
Buttonwillow Dr: 7th Standard Rd - Lerdo Hwy	2	-	-	-	-	-	-	-	2018, 2025	2034	-	-	1.00%
Cadet Rd: SR 33 - Gardner Field Rd	2	-	-	-	-	-	-	-	-	2015, 2027	2019, 2035	-	1.00%
Calloway Dr: Stockdale Hwy - Brimhall Rd	4	X	-[2]	-[2]	-	-	-	-	2025	2015	2019, 2030	-	1.00%
Calloway Dr: Meacham Rd - Hageman Rd	4	-	X	X	-	-	-	-	2027	2015, 2032	2020	-	1.00%
Calloway Dr: SR 58 (Rosedale Hwy) - Meacham Rd	4	-	X	X	-	-	-	-	-	2015	-	2022	1.00%
Calloway Dr: Olive Dr - Norris Rd	5	-	-	-	-	-	-	-	2025	2015, 2030	2019, 2035	-	1.00%
Calloway Dr: Hageman Rd - Olive Dr	6	-	-	-	-	-	-	-	-	2027, 2032	-	-	1.00%
Calloway Dr: Norris Rd - Snow Rd	4	-	-	-	-	-	-	-	2025	2015, 2030	2019, 2035	-	1.00%
Calloway Dr: Brimhall Rd - SR 58 (Rosedale Hwy)	4	X	-[2]	-[2]	-	-	-	-	2025	2015	2019, 2030	-	1.00%
Calloway Dr: Snow Rd - 7th Standard Rd	2	-	-	-	-	-	-	-	2023, 2034	-	2015, 2029	-	1.00%
Cerro Noroeste Rd: SR 166 - Klipstein Canyon Rd	2	-	-	-	-	-	-	-	-	-	-	2029	1.00%
China Grade Loop: Round Mountain Rd - Alfred Harrel Hwy	2	-	-	-	-	-	-	-	-	2015	-	2022	1.00%
Coffee Rd: Snow Rd - 7th Standard Rd	2	-	-	-	-	-	-	-	2022	2027, 2032	2015	-	1.00%
Coffee Rd: Truxtun Ave - Brimhall Rd	6	-	-	-	-	-	-	-	-	2015, 2025, 2030	2018, 2035	-	1.00%
Coffee Rd: SR 58 (Rosedale Hwy) - Hageman Rd	6	-	-	-	-	-	-	-	2027	2015, 2032	2020	-	1.00%
Coffee Rd: Olive Dr - Norris Rd	4	-	-	-	-	-	-	-	2015, 2022, 2034	2029	-	-	1.00%
Coffee Rd: Hageman Rd - Olive Dr	6	-	-	-	-	-	-	-	-	2016, 2029	2022, 2034	-	1.00%
Coffee Rd: Norris Rd - Snow Rd	2	-	-	-	-	-	-	-	2027	2015	2019, 2034	-	1.00%
Coffee Rd: Brimhall Rd - SR 58 (Rosedale Hwy)	6	-	-	-	-	-	-	-	-	2015	-	2022	1.00%
Coffee Rd: Stockdale Hwy - Truxtun Ave	6	-	-	-	-	-	-	-	2023	2029, 2034	2015	-	1.00%
Coles Levee Rd: Pieri Rd - Bear Mountain Blvd	2	-	-	-	-	-	-	-	2034	-	2018, 2028	-	1.00%
Coles Levee Rd: Bear Mountain Blvd - Union Rd	2	-	-	-	-	-	-	-	2015	-	2031	-	1.00%
Comanche Dr: Edison Hwy - Breckenridge Rd	2	-	-	-	-	-	-	-	2018, 2023, 2034	2029	-	-	1.00%
Comanche Dr: SR 223 (Bear Mtn Blvd) - DiGiorgio Rd	2	-	-	-	-	-	-	-	2016	-	-	2022	1.00%
Comanche Dr: SR 58 - Edison Hwy	2	-	-	-	-	-	-	-	2016, 2029	-	-	-	1.00%

Table 12
Roadway Impacts and Mitigation
(Continued)

Roadway Segment Description[1]	No. Lanes	Level of Service			Roadway Improvement Needed by 2015	Rdwy Improve Project % Share	Roadway Improvement Required by 2035[3]	Rdwy Improve Project % Share	Pavement Condition Improvement Recommendations by Year Needed				Pvmt Improve Project % Share
		Existing	2035 % Growth Only	2035 NOG + O&G Projection[4]					Preventive Maintenance	Corrective Maintenance	Major Rehabilitation	Roadway Reconstruction	
Comanche Dr: DiGiorgio Rd - Panama Rd	2	-	-	-	-	-	-	-	2016	-	-	2022	1.00%
Comanche Dr: Breckenridge Rd - SR 178	2	-	-	-	-	-	-	-	2018, 2032	-	2026	-	1.00%
Copus Rd: Basic School Rd - Old River Rd	2	-	-	-	-	-	-	-	-	2034	2015, 2026	-	1.00%
Copus Rd: Old River Rd - SR 99	2	-	-	-	-	-	-	-	2031	-	-	2015	1.00%
Dairy Rd: Adohr Rd - Stockdale Hwy	2	-	-	-	-	-	-	-	-	-	-	-	-
David Rd: SR 99 - S Wheeler Ridge Rd	2	-	-	-	-	-	-	-	-	2015	-	2023	1.00%
Enos Ln: Union Rd - SR 119 (Taft Hwy)	2	-	-	-	-	-	-	-	2027	2015	2022, 2032	-	1.00%
Fairfax Rd: Paladino Dr - Alfred Harrell Hwy	2	-	-	-	-	-	-	-	-	2025, 2030, 2035	2017	-	1.00%
Fairfax Rd: SR 178 - Auburn St	4	-	-	-	-	-	-	-	-	2016	-	2022	1.00%
Fairfax Rd: Panorama Dr - Paladino Dr	4	-	-	-	-	-	-	-	-	2015	-	2022	1.00%
Fairfax Rd: Auburn St - Panorama Dr	4	-	-	-	-	-	-	-	2015	2034	2025	-	1.00%
Famoso Rd: Driver Rd - SR 65 (Porterville Hwy)	2	-	-	-	-	-	-	-	2029	2018	-	-	1.00%
Famoso Rd: SR 46 - Driver Rd	2	-	-	-	-	-	-	-	2029, 2034	-	-	-	1.00%
Franco Western Rd: Reward Rd - West Side Hwy	2	-	-	-	-	-	-	-	-	-	2016	2027	39.64%
Freeborn Rd: Adohr Rd - Stockdale Hwy	2	-	-	-	-	-	-	-	2023	-	2016, 2031	-	1.00%
Garces Hwy: Corcoran Rd - SR 43 (Central Valley Hwy)	2	-	-	-	-	-	-	-	2029	-	-	-	1.00%
Garces Hwy: SR 43 (Central Valley Hwy) - SR 99	2	X	X	X	-	-	-	-	-	2015	-	2022	1.00%
Gardner Field Rd: Cadet Rd - Basic School Rd	2	-	-	-	-	-	-	-	-	-	2016	2027	1.00%
Gardner Field Rd: S Lake Rd - Cadet Rd	2	-	-	-	-	-	-	-	2023	-	2016, 2031	-	1.00%
Gardner Field Rd: SR 119 (Taft Hwy) - S Lake Rd	2	-	-	-	-	-	-	-	2035	-	2017, 2028	-	1.00%
Gosford Rd: SR 119 (Taft Hwy) - McCutchen Rd	2	-	-	-	-	-	-	-	-	-	-	2015	1.00%
Gosford Rd: N Laurelglen Blvd - Ming Ave	6	-	-	-	-	-	-	-	-	-	-	2015	1.00%
Gosford Rd: S Laurelglen Blvd - N Laurelglen Blvd	6	-	-	-	-	-	-	-	2035	-	-	2015	1.00%
Gosford Rd: Panama Ln - Pacheco Rd	4	-	-	-	-	-	-	-	-	2034	-	2015	1.00%
Gosford Rd: McCutchen Rd - Panama Ln	2	-	-	-	-	-	-	-	2022	2027, 2032	2015	-	1.00%
Gosford Rd: White Ln - S Laurelglen Blvd	6	-	-	-	-	-	-	-	2034	-	-	2015	1.00%
Gosford Rd: SR 223 (Bear Mtn Blvd) - SR 119 (Taft Hwy)	2	-	-	-	-	-	-	-	2025, 2030	-	2017	-	1.00%
Gosford Rd: Ming Ave - Stockdale Hwy	6	-	-	-	-	-	-	-	-	2034	-	2015	1.00%
Gosford Rd: Pacheco Rd - White Ln	6	-	-	-	-	-	-	-	2031	-	-	2015	1.00%
Granite Rd: Famoso Rd - Pine Mountain Rd	2	-	-	-	-	-	-	-	2029	2018	-	-	1.00%
Hazelton St: Western Minerals Rd - SR 166 (Maricopa Hwy)	2	-	-	-	-	-	-	-	2015, 2025, 2034	-	-	-	45.49%
Herring Rd: Old River Rd - SR 99	2	-	-	-	-	-	-	-	2018	-	-	-	1.00%
Hill Rd: S Lake Rd - Millux Rd	2	-	-	-	-	-	-	-	-	2015	-	2025	1.00%
Hill Rd: Millux Rd - Pieri Rd	2	-	-	-	-	-	-	-	2023	-	2015, 2032	-	1.00%
Interstate 5: SR 166 (Maricopa Hwy) - Old River Rd	4	-	-	-	-	-	-	-	2026, 2031	-	-	-	1.00%
Interstate 5: Old River Rd - SR 223 (Bear Mtn Blvd)	4	-	-	-	-	-	-	-	2017, 2030	2025	-	-	1.00%
Interstate 5: SR 46 - County Line Rd	4	-	-	-	-	-	-	-	2017, 2022, 2027	2032	-	-	1.00%
Interstate 5: Grapevine Rd - S Wheeler Ridge Rd	4	-	-	-	-	-	-	-	2034	-	2017	-	1.00%
Interstate 5: SR 99 - SR 166 (Maricopa Hwy)	4	-	-	-	-	-	-	-	2019, 2025, 2030	-	-	-	1.00%

Table 12
Roadway Impacts and Mitigation
(Continued)

Roadway Segment Description[1]	No. Lanes	Level of Service			Roadway Improvement Needed by 2015	Rdwy Improve Project % Share	Roadway Improvement Required by 2035[3]	Rdwy Improve Project % Share	Pavement Condition Improvement Recommendations by Year Needed				Pvmt Improve Project % Share
		Existing	2035 % Growth Only	2035 NOG + O&G Projection[4]					Preventive Maintenance	Corrective Maintenance	Major Rehabilitation	Roadway Reconstruction	
James Rd: Granite Rd - Petrol Rd	2	-	-	-	-	-	-	-	2022, 2035	-	2015, 2029	-	1.00%
James Rd: Petrol Rd - N Chester Ave	2	-	-	-	-	-	-	-	2022, 2035	-	2015, 2029	-	1.00%
Kecks Rd: SR 46 - Barker Rd	2	-	-	-	-	-	-	-	2018	-	-	-	1.00%
Kimberlina Rd: Bell Rd - SR 43 (Central Valley Hwy)	2	-	-	-	-	-	-	-	2025	2015	2018, 2033	-	1.00%
Kimberlina Rd: SR 43 (Central Valley Hwy) - Shafter Ave	2	-	-	-	-	-	-	-	2022	2027, 2032	2015	-	1.00%
Klipstein Canyon Rd: Cerro Noroeste Rd - SR 166	2	-	-	-	-	-	-	-	-	-	-	-	-
Lost Hills Rd: SR 33 - 7th Standard Rd	2	-	-	-	-	-	-	-	2025	2015	2019, 2032	-	46.91%
Lost Hills Rd: Twisselman Rd - County Line Rd	2	-	-	-	-	-	-	-	-	-	-	-	-
Lost Hills Rd: West Side Hwy - Lokern Rd	2	-	-	-	-	-	-	-	2035	-	-	2015	45.50%
Lost Hills Rd: SR 46 - Twisselman Rd	2	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia Ave: 7th Standard - Burbank St	2	-	-	-	-	-	-	-	2015, 2023, 2029	-	-	-	1.00%
Magnolia Ave: Burbank St - SR 46	2	-	-	-	-	-	-	-	-	-	-	-	-
Main Drain Rd: Lerdo Hwy - Interstate 5	2	-	-	-	-	-	-	-	2029	-	-	-	1.00%
Main Drain Rd: 7th Standard Rd - Lerdo Hwy	2	-	-	-	-	-	-	-	2027	-	-	-	1.00%
Main Drain Rd: Interstate 5 - SR 46	2	-	-	-	-	-	-	-	-	2034	-	-	1.00%
Millux Rd: Hill Rd - Interstate 5	2	-	-	-	-	-	-	-	-	-	2017, 2025	-	1.00%
Millux Rd: Interstate 5 - Old River Rd	2	-	-	-	-	-	-	-	-	2025	-	-	1.00%
Morning Dr: Niles St - College Ave	2	-	-	-	-	-	-	-	2027	-	-	-	1.00%
Morning Dr: College Ave - Highland Knolls Dr	2	-	-	-	-	-	-	-	2029	2018	-	-	1.00%
Morning Dr: Highland Knolls Dr - SR 178	2	-	-	-	-	-	-	-	2029	-	-	-	1.00%
N Chester Ave Ext: Manor St - Granite Rd	2	-	-	-	-	-	-	-	2034	-	-	2015	1.00%
N Chester Ave: China Grade Loop - Merle Haggard Dr	4	-	-	-	-	-	-	-	2032	-	-	2015	1.00%
Old River Rd: Harris Rd - Campus Park Dr	2	-	X	X	-	-	-	-	-	2015	-	2022	1.00%
Old River Rd: Panama Ln - Harris Rd	2	-	-	-	-	-	-	-	-	2025, 2030, 2035	2017	-	1.00%
Old River Rd: SR 119 (Taft Hwy) - McCutchen Rd	2	-	-	-	-	-	-	-	-	2022, 2027	2015, 2032	-	1.00%
Old River Rd: White Ln - Ming Ave	6	-	-	-	-	-	-	-	2015, 2034	2023, 2029	-	-	1.00%
Old River Rd: McCutchen Rd - Panama Ln	2	-	-	-	-	-	-	-	-	2025	2018, 2030	-	1.00%
Old River Rd: Ming Ave - Stockdale Hwy	6	-	-	-	-	-	-	-	2027	2015, 2032	2020	-	1.00%
Old River Rd: Campus Park Dr - White Ln	4	-	-	-	-	-	-	-	-	2027, 2032	-	-	1.00%
Panama Ln: Akers Rd - Wible Rd	6	-	-	-	-	-	-	-	-	2027, 2032	-	-	1.00%
Panama Ln: Ashe Rd - Stine Rd	4	-	X	X	-	-	-	-	-	2015	-	2022	1.00%
Panama Ln: Cottonwood Rd - Fairfax Rd	2	-	-	-	-	-	-	-	-	2015, 2025	2019, 2030	-	1.00%
Panama Ln: Fairfax Rd - SR 184 (Weedpatch Hwy)	2	-	-	-	-	-	-	-	2023	-	2018, 2029	-	1.00%
Panama Ln: Gosford Rd - Ashe Rd	3	-	-	-	-	-	-	-	2016, 2029	-	-	-	1.00%
Panama Ln: S H St - S Union Ave	4	-	-	-	-	-	-	-	2015, 2025, 2034	-	-	-	1.00%
Panama Ln: S Union Ave - Cottonwood Rd	2	-	-	-	-	-	-	-	2027, 2032	2015	2019	-	1.00%
Panama Ln: SR 99 - S H St	5	-	-	-	-	-	-	-	-	2016, 2029	2022, 2034	-	1.00%
Panama Ln: Stine Rd - Akers Rd	6	-	-	-	-	-	-	-	-	2016	-	2022	1.00%
Panama Ln: Wible Rd - SR 99	6	-	-	-	-	-	-	-	2027	2015, 2032	2020	-	1.00%

Table 12
Roadway Impacts and Mitigation
(Continued)

Roadway Segment Description[1]	No. Lanes	Level of Service			Roadway Improvement Needed by 2015	Rdwy Improve Project % Share	Roadway Improvement Required by 2035[3]	Rdwy Improve Project % Share	Pavement Condition Improvement Recommendations by Year Needed				Pvmt Improve Project % Share
		Existing	2035 % Growth Only	2035 NOG + O&G Projection[4]					Preventive Maintenance	Corrective Maintenance	Major Rehabilitation	Roadway Reconstruction	
Panama Rd: Comanche Dr - Tejon Hwy	2	-	-	-	-	-	-	-	2025	2015	2019, 2032	-	1.00%
Panama Rd: Tejon Hwy - Tower Line Rd	2	-	-	-	-	-	-	-	2025	2015	2019, 2032	-	1.00%
Pieri Rd: Coles Levee Rd - Hill Rd	2	-	-	-	-	-	-	-	2025	-	2018	2034	1.00%
Real Rd: SR 58 - Stockdale Hwy	5	-	-	-	-	-	-	-	2015, 2027	2022	2034	-	1.00%
Reward Loop: Reward Rd - Reward Rd	2	-	-	-	-	-	-	-	-	-	-	2018	1.00%
Reward Rd: SR 58 - Franco Western Rd	2	-	-	-	-	-	-	-	-	2025	2016, 2034	-	1.00%
Rowlee Rd: Lerdo Hwy - SR 46	2	-	-	-	-	-	-	-	2017	2022, 2027	2034	-	1.00%
S 10th St: Wood St - A St	2	-	-	-	-	-	-	-	2029, 2034	2023	-	-	1.00%
S Lake Rd: Gardner Field Rd - Hill Rd	2	-	-	-	-	-	-	-	2025	2015, 2030	2019	-	1.00%
Santa Fe Way: Kratzmeyer Rd - 7th Standard Rd	2	-	-	-	-	-	-	-	2022, 2029	-	-	-	1.00%
Santa Fe Way: Allen Rd - Hageman Rd	4	-	-	-	-	-	-	-	2016, 2025	2034	-	-	1.00%
Santa Fe Way: Renfro Rd - Kratzmeyer Rd	2	-	X	X	-	-	-	-	2029, 2034	2023	-	-	1.00%
Santa Fe Way: Hageman Rd - Renfro Rd	2	-	X	X	-	-	-	-	2029, 2034	-	-	-	1.00%
Shafter Ave: Lerdo Hwy - SR 43 (Central Valley Hwy)	2	-	-	-	-	-	-	-	2018	-	2029	-	1.00%
SR 155 (Garces Hwy): Browning Rd - Zachary Ave	2	-	-	-	-	-	-	-	2026	-	-	-	1.00%
SR 155 (Garces Hwy): Famoso Porterville Hwy - Quinn Rd	2	-	-	-	-	-	-	-	-	-	-	-	-
SR 155 (Garces Hwy): Quinn Rd - SR 65 (Porterville Hwy)	2	-	-	-	-	-	-	-	-	-	-	-	-
SR 155 (Garces Hwy): SR 99 - Browning Rd	2	X	X	X	-	-	-	-	2015	-	2021	-	1.00%
SR 155 (Garces Hwy): Zachary Ave - Famoso Porterville Hwy	2	-	-	-	-	-	-	-	2026	-	-	-	1.00%
SR 178 (24th St): Bay St - 24th St Frontage Rd	3	-	-[2]	-[2]	-	-	-	-	2017, 2022, 2027	2032	-	-	1.00%
SR 178 (24th St): SR 99 - Bay St	4	X	X	X	-	-	-	-	-	2015	2021	-	1.00%
SR 178 (Kern Canyon Rd): Comanche Dr - Miramonte Dr	3	-	-	-	-	-	-	-	2019	-	-	-	1.00%
SR 178 (Kern Canyon Rd): Miramonte Dr - Rancheria Rd	2	-	-	-	-	-	-	-	-	-	-	-	-
SR 178 (Kern Canyon Rd): Rancheria Rd - Kern Canyon Ent	2	-	-	-	-	-	-	-	-	-	-	-	-
SR 178 (Kern Canyon Rd): SR 184 (Kern Canyon Rd) - Comanche Dr	2	X	X	X	-	-	-	-	2021, 2032	-	-	-	1.00%
SR 178: 24th St Frontage Rd - Union Ave	6	-	-	-	-	-	-	-	-	2015, 2020, 2025	2032	-	1.00%
SR 178: Fairfax Rd - Morning Dr	4	-	-	-	-	-	-	-	2017, 2026, 2032	-	-	-	1.00%
SR 178: Morning Dr - Vineland Rd	4	-	X	X	-	-	-	-	2017, 2026, 2032	-	-	-	1.00%
SR 178: Mt Vernon Ave - Oswell St	6	-	-	-	-	-	-	-	2017, 2022	-	2032	-	1.00%
SR 178: Oswell St - Fairfax Rd	4	-	-	-	-	-	-	-	2019, 2024	2030, 2035	-	-	1.00%
SR 178: Union Ave - Mt Vernon Ave	6	-	-	-	-	-	-	-	2017	-	2024	-	1.00%
SR 178: Vineland Rd - SR 184 (Kern Canyon Rd)	4	-	X	X	-	-	-	-	2021, 2030	-	-	-	1.00%
SR 184 (Kern Canyon Rd): Vineland Rd - SR 178	4	-	-	-	-	-	-	-	-	-	2019	-	1.00%
SR 184 (Kern Canyon Rd): Watergrass Rd - Vineland Rd	2	-	X	X	-	-	-	-	-	-	2017	-	1.00%
SR 184 (Kern Canyon Rd): Niles St - Watergrass Rd	2	-	X	X	-	-	-	-	-	-	2017	-	1.00%
SR 184 (Morning Dr): Edison Hwy - Breckenridge Rd	2	X	X	X	-	-	-	-	-	-	2017	-	1.00%
SR 184 (Morning Dr): Pioneer Dr - Niles St	2	-	X	X	-	-	-	-	-	-	2019	-	1.00%
SR 184 (Morning Dr): Breckenridge Rd - Pioneer Dr	2	X	X	X	-	-	-	-	-	-	2019	-	1.00%
SR 184 (Weedpatch Hwy): SR 58 - Brundage Ln	4	-	-	-	-	-	-	-	-	-	2019	-	1.00%

Table 12
Roadway Impacts and Mitigation
(Continued)

Roadway Segment Description[1]	No. Lanes	Level of Service			Roadway Improvement Needed by 2015	Rdwy Improve Project % Share	Roadway Improvement Required by 2035[3]	Rdwy Improve Project % Share	Pavement Condition Improvement Recommendations by Year Needed				Pvmt Improve Project % Share
		Existing	2035 % Growth Only	2035 NOG + O&G Projection[4]					Preventive Maintenance	Corrective Maintenance	Major Rehabilitation	Roadway Reconstruction	
SR 184 (Weedpatch Hwy): Sunset Blvd - Di Giorgio Rd	2	-	X	X	-	-	-	-	-	-	2019	-	1.00%
SR 184 (Weedpatch Hwy): Brundage Ln - Edison Hwy	4	-	-	-	-	-	-	-	-	-	2019	-	1.00%
SR 184 (Weedpatch Hwy): Panama Rd - Mountain View Rd	2	-	X	X	-	-	-	-	-	-	2019	-	1.00%
SR 184 (Weedpatch Hwy): Panama Ln - Muller Rd	2	-	-	-	-	-	-	-	-	-	2019	-	1.00%
SR 184 (Weedpatch Hwy): Mountain View Rd - Panama Ln	2	X	X	X	-	-	-	-	-	-	2017	-	1.00%
SR 184 (Weedpatch Hwy): Di Giorgio Rd - Panama Rd	4	X	X	X	-	-	-	-	-	-	2019	-	1.00%
SR 184 (Weedpatch Hwy): Muller Rd - SR 58	2	-	-	-	-	-	-	-	-	-	2019	-	1.00%
SR 184 (Weedpatch Hwy): SR 223 (Bear Mtn Blvd) - Sunset Blvd	2	-	-	-	-	-	-	-	2026	-	-	-	1.00%
SR 204 (Golden State Ave): Union Ave - SR 178	6	-	-	-	-	-	-	-	2017, 2024, 2031	-	-	-	1.00%
SR 204 (Golden State Ave): SR 178 - SR 99	6	-	-	-	-	-	-	-	-	2015	2021	-	1.00%
SR 204 (Union Ave): SR 58 - Union Ave	4	X	X	X	-	-	-	-	2035	-	-	2015	1.00%
SR 223 (Bear Mtn Blvd): A St - Tejon Hwy	4	-	-	-	-	-	-	-	2019, 2025, 2031	-	-	-	1.00%
SR 223 (Bear Mtn Blvd): Ashe Rd - S H St	2	-	-	-	-	-	-	-	2017	-	-	-	1.00%
SR 223 (Bear Mtn Blvd): Comanche Dr - A St	4	-	-	-	-	-	-	-	2017, 2031	2025	-	-	1.00%
SR 223 (Bear Mtn Blvd): Costajo Rd - SR 99 NB Ramps	2	-	-	-	-	-	-	-	-	-	2027	-	1.00%
SR 223 (Bear Mtn Blvd): General Beale Rd - SR 58	2	-	-	-	-	-	-	-	2019	-	-	-	1.00%
SR 223 (Bear Mtn Blvd): Gosford Rd - Ashe Rd	2	-	-	-	-	-	-	-	-	-	2030	-	1.00%
SR 223 (Bear Mtn Blvd): Interstate 5 - Gosford Rd	2	-	-	-	-	-	-	-	2019	-	-	-	1.00%
SR 223 (Bear Mtn Blvd): S H St - Costajo Rd	2	-	-	-	-	-	-	-	-	2027	-	-	1.00%
SR 223 (Bear Mtn Blvd): S Union Av - SR 184 (Weedpatch Hwy)	2	-	-	-	-	-	-	-	2017, 2026, 2034	-	-	-	1.00%
SR 223 (Bear Mtn Blvd): SR 184 (Weedpatch Hwy) - Comanche Dr	2	-	-	-	-	-	-	-	2026	2019, 2034	-	-	1.00%
SR 223 (Bear Mtn Blvd): SR 99 NB Ramps - S Union Av	2	-	-	-	-	-	-	-	2015, 2024, 2032	-	-	-	1.00%
SR 223 (Bear Mtn Blvd): Tejon Hwy - Tower Line Rd	2	-	-	-	-	-	-	-	2026	-	-	-	1.00%
SR 223 (Bear Mtn Blvd): Tower Line Rd - General Beale Rd	2	-	-	-	-	-	-	-	2019	-	-	-	1.00%
SR 33/166: Stubblefield Rd - SR 166	2	-	-	-	-	-	-	-	2026	2019	-	-	1.00%
SR 33: Twisselman Rd - SR 41	2	-	-	-	-	-	-	-	2026	-	-	-	1.00%
SR 33: SR 46 - Twisselman Rd	2	-	-	-	-	-	-	-	2026	-	-	-	1.00%
SR 43 (Beech Ave): Orange Ave - Los Angeles Ave	2	-	-	-	-	-	-	-	-	2019	-	-	1.00%
SR 43 (Beech Ave): Imperial St - Orange Ave	2	-	-	-	-	-	-	-	2026	-	-	-	1.00%
SR 43 (Central Valley Hwy): Garces Hwy - County Line Rd	2	-	-	-	-	-	-	-	2017	-	-	-	1.00%
SR 43 (Central Valley Hwy): McCombs Rd - Garces Hwy	2	-	-	-	-	-	-	-	2019, 2026	2034	-	-	1.00%
SR 43 (Enos Ln): 7th Standard Rd - Imperial St	2	-	-	-	-	-	-	-	-	2019	-	-	1.00%
SR 46: Kecks Rd - Bitterwater Valley Rd	4	-	-	-	-	-	-	-	2026	-	-	-	1.00%
SR 46: SR 41 - Kecks Rd	4	-	-	-	-	-	-	-	2026	-	-	-	1.00%
SR 58 (Rosedale Hwy): Coffee Rd - Patton Wy	4	X	X	X	-	-	-	-	-	-	2017	-	1.00%
SR 58 (Rosedale Hwy): Patton Way - Mohawk St	4	X	X	X	-	-	-	-	2015	-	2017	-	1.00%
SR 58: 7 Mile Rd - SR 33	2	-	-	-	-	-	-	-	-	-	2024	-	1.00%
SR 58: Comanche Dr - SR 223 (Bear Mtn Blvd)	4	-	-	-	-	-	-	-	2019, 2026, 2032	-	-	-	1.00%
SR 58: Cottonwood Rd - Mt Vernon Ave	6	-	-	-	-	-	-	-	2017	-	2026	-	1.00%

Table 12
Roadway Impacts and Mitigation
(Continued)

Roadway Segment Description[1]	No. Lanes	Level of Service			Roadway Improvement Needed by 2015	Rdwy Improve Project % Share	Roadway Improvement Required by 2035[3]	Rdwy Improve Project % Share	Pavement Condition Improvement Recommendations by Year Needed				Pvmt Improve Project % Share
		Existing	2035 % Growth Only	2035 NOG + O&G Projection[4]					Preventive Maintenance	Corrective Maintenance	Major Rehabilitation	Roadway Reconstruction	
SR 58: Real Rd - SR 99	4	X	X	X	-	-	-	-	-	-	2015	-	1.00%
SR 58: SR 99 - Union Ave	4	-	-	-	-	-	-	-	2015	-	2021	-	1.00%
SR 58: Union Ave - Cottonwood Rd	6	-	-	-	-	-	-	-	2015	2021, 2026, 2031	-	-	1.00%
SR 65 (Porterville Hwy): SR 155 (Garces Hwy) - County Line Ave	2	-	-	-	-	-	-	-	2019, 2032	2026	-	-	1.00%
SR 65 (Porterville Hwy): Famoso Rd - SR 155 (Garces Hwy)	2	-	X	X	-	-	-	-	2019, 2024, 2035	2030	-	-	1.00%
SR 99: Olive Dr - 7th Standard Rd	6	-	-[2]	-[2]	-	-	-	-	2026, 2032	-	-	-	1.00%
SR 99: Garces Hwy - County Line Rd	6	-	-	-	-	-	-	-	2017, 2026, 2035	-	-	-	1.00%
SR 99: SR 46 - Garces Hwy	6	-	-	-	-	-	-	-	2017, 2026, 2035	-	-	-	1.00%
SR 99: SR 178 - Olive Dr	8	-	-	-	-	-	-	-	2017	-	2026	-	1.00%
SR 99: SR 119 (Taft Hwy) - Panama Ln	8	-	-	-	-	-	-	-	2017, 2025, 2032	-	-	-	1.00%
SR 99: SR 58 E - SR 178	8	-[2]	-[2]	-[2]	-	-	-	-	-	2017, 2022	2030	-	1.00%
SR 99: Panama Ln - SR 58 E	8	-[2]	-[2]	-[2]	-	-	-	-	-	2017, 2022	2029	-	1.00%
Stockdale Hwy: Ashe Rd - New Stine Rd	6	-	-	-	-	-	-	-	2016	-	-	2022	1.00%
Stockdale Hwy: Coffee Rd - El Rio Dr	6	-	-	-	-	-	-	-	2016, 2025	-	2020, 2030	-	1.00%
Stockdale Hwy: El Rio Dr - Ashe Rd	6	-	-	-	-	-	-	-	2016	-	-	2022	1.00%
Stockdale Hwy: New Stine Rd - Stine Rd	6	-	-	-	-	-	-	-	2017	2022, 2027	2032	-	1.00%
Stockdale Hwy: Stine Rd - Real Rd	6	-	-	-	-	-	-	-	2016	-	-	2022	1.00%
Tracy Ave: Willow Dr - 7th Standard Rd	2	-	-	-	-	-	-	-	2029	-	-	-	1.00%
Tracy Ave: SR 58 - Int 5 NB Ramps	1	-	-	-	-	-	-	-	2034	2025	-	-	1.00%
Tracy Ave: Int 5 NB Ramps - Willow Dr	1	-	-	-	-	-	-	-	2029	-	-	-	1.00%
Tupman Rd: N Access Rd - Adohr Rd	2	-	-	-	-	-	-	-	2015	-	2035	-	1.00%
Twisselman Rd: Barker Rd - Holloway Rd	2	-	-	-	-	-	-	-	-	2015	-	2023	1.00%
23rd St: Bay St - 24th St Frontage Rd	3	-	-[2]	-[2]	-	-	-	-	2015	-	2019	-	1.00%
7th Standard Rd: Lost Hills Rd - Main Drain Rd	2	-	-	-	-	-	-	-	-	-	2029	-	1.00%
7th Standard Rd: Main Drain Rd - Corn Camp Rd	2	-	-	-	-	-	-	-	-	-	2029	-	1.00%
Twisselman Rd: Holloway Rd - Interstate 5	2	-	-	-	-	-	-	-	2018	-	2029	-	1.00%
Twisselman Rd: Interstate 5 - Lost Hill Rd	2	-	-	-	-	-	-	-	2018	-	-	-	1.00%
Union Rd: Enos Ln - Coles Levee Rd	2	-	-	-	-	-	-	-	-	2025	2018, 2031	-	1.00%
Wasco Wy: Brite Rd - SR 58	2	-	-	-	-	-	-	-	-	2025, 2030	2018	-	23.55%
Western Minerals Rd: Klipstein Rd - Hazelton St	2	-	-	-	-	-	-	-	2015, 2025, 2034	-	-	-	45.49%
Wheeler Ridge Rd: Del Sol Dr - David Rd	2	-	-	-	-	-	-	-	2034	-	-	2015	1.00%
Wheeler Ridge Rd: David Rd - SR 223 (Bear Mtn Blvd)	2	-	-	-	-	-	-	-	-	2023	2015, 2029	-	1.00%
Wood St: S 10th St - Olive Ave	2	-	-	-	-	-	-	-	-	2025, 2030	2018, 2035	-	1.00%
Zerker Rd: 7th Standard Rd - Lerdo Hwy	2	-	-	-	-	-	-	-	2029, 2034	2015	2021	-	1.00%

[1]Most high volume roads have acceptable conditions.

[2]Roadway cannot be expanded further.

[3]Assumes no mitigation implemented in 2015.

[4](NOG)None Oil and Gas Traffic; (O&G) Oil and Gas Traffic

C. Accidents and Geometrics

As stated previously, there are no specific items identified for improvement or mitigation related to recent accident history or existing roadway geometrics. In addition, the specific nature of issues which may arise in the future is unknown at this time. However, historical activity indicates that such issues may arise periodically, and therefore, it is recommended that an improvement item in the cost range of less than $500,000 every five years be included in the listed potential mitigations.

CONCLUSION

This transportation study assessed the potential traffic impacts of future oil and gas development and production within Kern County, California. Evaluation of the vehicular traffic associated with oil and gas well activity was characterized by three main areas: traffic operations, roadway pavement conditions and safety.

Of the approximately 593 centerline miles of primary and secondary routes utilized by oil and gas traffic, approximately 36 centerline miles currently operate below the adopted level of service standard, and approximately 159 centerline miles are anticipated to operate below the level of service standard by 2035. In general, the decrease in level of service, which is anticipated by 2035, is the result of anticipated population growth.

Additionally, of the 101 study intersections evaluated for operational level of service, 34 currently operate below the adopted level of service standard, and an additional 15 intersections are anticipated to operate below the level of service standard by 2035. Most of the decrease in level of service is caused by the anticipated population growth and associated increase in travel for the region.

Pavement conditions and the service life for each roadway within the study area were also evaluated. This analysis, summarized in Table 12, resulted in maintenance measures and the project percent share for the recommendations.

Potential mitigation measures and proportionate share responsibility for the traffic associated with oil and gas well activity, as defined for this study, have been identified for intersection improvements, roadway widening and pavement condition improvements. These improvements are anticipated over the next 20 years to maintain acceptable roadway operations.

APPENDIX

APPENDIX TO

TRAFFIC IMPACT STUDY AND ROADWAY ASSESSMENT FOR KERN COUNTY OIL & GAS WELL ACTIVITY

3/20/2015

AM Existing

Intersection	
Int Delay, s/veh	5.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	11	32	17	119	42	3	3	93	29	4	289	23
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	12	35	18	129	46	3	3	101	32	4	314	25

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	483	474	327	485	471	117	339	0	0	133	0	0
Stage 1	335	335	-	123	123	-	-	-	-	-	-	-
Stage 2	148	139	-	362	348	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.2	6.6	6.3	4.2	-	-	4.2	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.59	4.09	3.39	2.29	-	-	2.29	-	-
Pot Cap-1 Maneuver	481	477	696	479	479	914	1177	-	-	1404	-	-
Stage 1	662	628	-	862	779	-	-	-	-	-	-	-
Stage 2	836	767	-	640	620	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	442	474	696	438	476	914	1177	-	-	1404	-	-
Mov Cap-2 Maneuver	442	474	-	438	476	-	-	-	-	-	-	-
Stage 1	660	625	-	859	777	-	-	-	-	-	-	-
Stage 2	782	765	-	586	618	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	13	18.1	0.2	0.1
HCM LOS	B	C		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1177	-	-	514	452	1404	-	-
HCM Lane V/C Ratio	0.003	-	-	0.127	0.394	0.003	-	-
HCM Control Delay (s)	8.1	0	-	13	18.1	7.6	0	-
HCM Lane LOS	A	A	-	B	C	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.4	1.9	0	-	-

Intersection	
Intersection Delay, s/veh	8.3
Intersection LOS	A

Movement	EBU	EBL	EBT	WBU	WBT	WBR	SBU	SBL	SBR
Vol, veh/h	0	27	33	0	75	42	0	70	89
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	29	36	0	82	46	0	76	97
Number of Lanes	0	1	1	0	1	1	0	1	1

Approach	EB	WB	SB
Opposing Approach	WB	EB	
Opposing Lanes	2	2	0
Conflicting Approach Left	SB		WB
Conflicting Lanes Left	2	0	2
Conflicting Approach Right		SB	EB
Conflicting Lanes Right	0	2	2
HCM Control Delay	8.4	8.2	8.4
HCM LOS	A	A	A

Lane	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1	SBLn2
Vol Left, %	100%	0%	0%	0%	100%	0%
Vol Thru, %	0%	100%	100%	0%	0%	0%
Vol Right, %	0%	0%	0%	100%	0%	100%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	27	33	75	42	70	89
LT Vol	27	0	0	0	70	0
Through Vol	0	33	75	0	0	0
RT Vol	0	0	0	42	0	89
Lane Flow Rate	29	36	82	46	76	97
Geometry Grp	7	7	7	7	7	7
Degree of Util (X)	0.047	0.052	0.117	0.057	0.119	0.12
Departure Headway (Hd)	5.73	5.227	5.176	4.473	5.654	4.451
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	627	687	695	803	636	807
Service Time	3.449	2.947	2.894	2.19	3.371	2.169
HCM Lane V/C Ratio	0.046	0.052	0.118	0.057	0.119	0.12
HCM Control Delay	8.7	8.2	8.6	7.5	9.1	7.8
HCM Lane LOS	A	A	A	A	A	A
HCM 95th-tile Q	0.1	0.2	0.4	0.2	0.4	0.4

Intersection	
Int Delay, s/veh	10.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	3	18	2	1	20	17	0	0	0	73	21	326
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	116	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	29	29	29	29	29	29	10	10	10	10	10	10
Mvmt Flow	3	20	2	1	22	18	0	0	0	79	23	354

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	40	0	0	22	0	0	249	69	21	60	61	31
Stage 1	-	-	-	-	-	-	27	27	-	33	33	-
Stage 2	-	-	-	-	-	-	222	42	-	27	28	-
Critical Hdwy	4.39	-	-	4.39	-	-	7.2	6.6	6.3	7.2	6.6	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Follow-up Hdwy	2.461	-	-	2.461	-	-	3.59	4.09	3.39	3.59	4.09	3.39
Pot Cap-1 Maneuver	1412	-	-	1435	-	-	688	806	1034	916	815	1021
Stage 1	-	-	-	-	-	-	970	857	-	963	852	-
Stage 2	-	-	-	-	-	-	763	844	-	970	856	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1412	-	-	1435	-	-	439	803	1034	914	812	1021
Mov Cap-2 Maneuver	-	-	-	-	-	-	439	803	-	914	812	-
Stage 1	-	-	-	-	-	-	968	855	-	961	851	-
Stage 2	-	-	-	-	-	-	484	843	-	968	854	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	1	0.2	0	11.7
HCM LOS			A	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	-	1412	-	-	1435	-	-	988
HCM Lane V/C Ratio	-	0.002	-	-	0.001	-	-	0.462
HCM Control Delay (s)	0	7.6	-	-	7.5	0	-	11.7
HCM Lane LOS	A	A	-	-	A	A	-	B
HCM 95th %tile Q(veh)	-	0	-	-	0	-	-	2.5

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	0	0	0	0	22	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	29	29	10	10	10	10
Mvmt Flow	0	0	0	0	24	0

Major/Minor	Major1		Minor2	
Conflicting Flow All	0	0	0	0
Stage 1	-	-	0	-
Stage 2	-	-	0	-
Critical Hdwy	-	-	7.2	-
Critical Hdwy Stg 1	-	-	-	-
Critical Hdwy Stg 2	-	-	6.2	-
Follow-up Hdwy	-	-	3.59	-
Pot Cap-1 Maneuver	-	-	-	-
Stage 1	-	-	-	-
Stage 2	-	-	-	-
Platoon blocked, %		-		
Mov Cap-1 Maneuver	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-
Stage 1	-	-	-	-
Stage 2	-	-	-	-

Approach	EB	SB
HCM Control Delay, s	0	
HCM LOS		-

Minor Lane/Major Mvmt	EBL	EBT	SBLn1
Capacity (veh/h)	-	-	-
HCM Lane V/C Ratio	-	-	-
HCM Control Delay (s)	0	-	-
HCM Lane LOS	A	-	-
HCM 95th %tile Q(veh)	-	-	-

Intersection	
Int Delay, s/veh	7.5

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	63	48	180	9	32	281
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	500	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	29	29	29	29	10	10
Mvmt Flow	68	52	196	10	35	305

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	205	0	-	0	390	201
Stage 1	-	-	-	-	201	-
Stage 2	-	-	-	-	189	-
Critical Hdwy	4.39	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.461	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1221	-	-	-	599	820
Stage 1	-	-	-	-	814	-
Stage 2	-	-	-	-	824	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1221	-	-	-	566	820
Mov Cap-2 Maneuver	-	-	-	-	566	-
Stage 1	-	-	-	-	814	-
Stage 2	-	-	-	-	778	-

Approach	EB	WB	SB
HCM Control Delay, s	4.6	0	13.1
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1221	-	-	-	784
HCM Lane V/C Ratio	0.056	-	-	-	0.434
HCM Control Delay (s)	8.1	-	-	-	13.1
HCM Lane LOS	A	-	-	-	B
HCM 95th %tile Q(veh)	0.2	-	-	-	2.2

Intersection	
Int Delay, s/veh	0.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NWL	NWR
Vol, veh/h	0	27	23	0	351	0	6	5	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	None	-	-
Storage Length	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	0	-	0	-
Grade, %	-	0	-	-	0	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	29	29	29	29	29	29	28	28	10	10
Mvmt Flow	0	29	25	0	382	0	7	5	0	0

Major/Minor	Major1			Major2			Minor2			
Conflicting Flow All	382	0	0	54	0	0	424	382		
Stage 1	-	-	-	-	-	-	382	-		
Stage 2	-	-	-	-	-	-	42	-		
Critical Hdwy	4.39	-	-	4.39	-	-	6.68	6.48		
Critical Hdwy Stg 1	-	-	-	-	-	-	5.68	-		
Critical Hdwy Stg 2	-	-	-	-	-	-	5.68	-		
Follow-up Hdwy	2.461	-	-	2.461	-	-	3.752	3.552		
Pot Cap-1 Maneuver	1043	-	-	1395	-	-	540	612		
Stage 1	-	-	-	-	-	-	637	-		
Stage 2	-	-	-	-	-	-	918	-		
Platoon blocked, %		-	-		-	-				
Mov Cap-1 Maneuver	1043	-	-	1395	-	-	540	612		
Mov Cap-2 Maneuver	-	-	-	-	-	-	540	-		
Stage 1	-	-	-	-	-	-	637	-		
Stage 2	-	-	-	-	-	-	918	-		

Approach	EB	WB	SB
HCM Control Delay, s	0	0	11
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	1043	-	-	1395	-	-	612
HCM Lane V/C Ratio	-	-	-	-	-	-	0.02
HCM Control Delay (s)	0	-	-	0	-	-	11
HCM Lane LOS	A	-	-	A	-	-	B
HCM 95th %tile Q(veh)	0	-	-	0	-	-	0.1

Intersection	
Int Delay, s/veh	0.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBR	SEL	SER
Vol, veh/h	4	33	0	0	302	4	40	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	None	-	-
Storage Length	-	-	-	-	-	0	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	0	-	0	-
Grade, %	-	0	-	-	0	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	29	29	29	29	29	29	28	28	10	10
Mvmt Flow	4	36	0	0	328	4	43	0	0	0

Major/Minor	Major1			Major2			Minor1			
Conflicting Flow All	328	0	0	36	0	0	373	36		
Stage 1	-	-	-	-	-	-	45	-		
Stage 2	-	-	-	-	-	-	328	-		
Critical Hdwy	4.39	-	-	4.39	-	-	6.68	6.48		
Critical Hdwy Stg 1	-	-	-	-	-	-	5.68	-		
Critical Hdwy Stg 2	-	-	-	-	-	-	5.68	-		
Follow-up Hdwy	2.461	-	-	2.461	-	-	3.752	3.552		
Pot Cap-1 Maneuver	1095	-	-	1417	-	-	580	967		
Stage 1	-	-	-	-	-	-	915	-		
Stage 2	-	-	-	-	-	-	675	-		
Platoon blocked, %		-	-		-	-				
Mov Cap-1 Maneuver	1095	-	-	1417	-	-	578	967		
Mov Cap-2 Maneuver	-	-	-	-	-	-	578	-		
Stage 1	-	-	-	-	-	-	911	-		
Stage 2	-	-	-	-	-	-	675	-		

Approach	EB	WB	NB
HCM Control Delay, s	0.9	0	
HCM LOS			-

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR
Capacity (veh/h)	-	1095	-	-	1417	-	-
HCM Lane V/C Ratio	-	0.004	-	-	-	-	-
HCM Control Delay (s)	-	8.3	0	-	0	-	-
HCM Lane LOS	-	A	A	-	A	-	-
HCM 95th %tile Q(veh)	-	0	-	-	0	-	-

Intersection	
Int Delay, s/veh	3

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	7	93	165	341	257	11
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	0	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	19	19	19	19
Mvmt Flow	8	101	179	371	279	12

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1014	285	291	0	-	0
Stage 1	285	-	-	-	-	-
Stage 2	729	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.29	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.371	-	-	-
Pot Cap-1 Maneuver	255	735	1180	-	-	-
Stage 1	745	-	-	-	-	-
Stage 2	463	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	216	735	1180	-	-	-
Mov Cap-2 Maneuver	216	-	-	-	-	-
Stage 1	745	-	-	-	-	-
Stage 2	393	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	11.9	2.8	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1180	-	629	-	-
HCM Lane V/C Ratio	0.152	-	0.173	-	-
HCM Control Delay (s)	8.6	-	11.9	-	-
HCM Lane LOS	A	-	B	-	-
HCM 95th %tile Q(veh)	0.5	-	0.6	-	-

Intersection	
Intersection Delay, s/veh	30.6
Intersection LOS	D

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	17	85	37	0	79	328	52	0	80	117	128
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	18	92	40	0	86	357	57	0	87	127	139
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	1	1	2
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	2	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	2	1
HCM Control Delay	14.3	47.6	24.4
HCM LOS	B	E	C

Lane	NBLn1	EBLn1	WBLn1	SBLn1	SBLn2
Vol Left, %	25%	12%	17%	23%	0%
Vol Thru, %	36%	61%	71%	77%	0%
Vol Right, %	39%	27%	11%	0%	100%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	325	139	459	199	54
LT Vol	80	17	79	45	0
Through Vol	117	85	328	154	0
RT Vol	128	37	52	0	54
Lane Flow Rate	353	151	499	216	59
Geometry Grp	5	2	2	7	7
Degree of Util (X)	0.688	0.322	0.92	0.484	0.118
Departure Headway (Hd)	7.136	7.669	6.747	8.056	7.218
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	509	470	539	450	499
Service Time	5.136	5.687	4.747	5.768	4.929
HCM Lane V/C Ratio	0.694	0.321	0.926	0.48	0.118
HCM Control Delay	24.4	14.3	47.6	18.1	10.9
HCM Lane LOS	C	B	E	C	B
HCM 95th-tile Q	5.2	1.4	11.2	2.6	0.4

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	45	154	54
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10
Mvmt Flow	0	49	167	59
Number of Lanes	0	0	1	1

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	1
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	16.6
HCM LOS	C

Lane

Intersection	
Intersection Delay, s/veh	24.1
Intersection LOS	C

Movement	EBU	EBL	EBR	NBU	NBL	NBT	SBU	SBT	SBR
Vol, veh/h	0	36	78	0	367	109	0	273	217
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	22	22	10	25	25	10	25	25
Mvmt Flow	0	39	85	0	399	118	0	297	236
Number of Lanes	0	1	1	0	1	1	0	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	1	2
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	1	2	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	2	0	2
HCM Control Delay	11.1	20.8	30.4
HCM LOS	B	C	D

Lane	NBLn1	NBLn2	EBLn1	EBLn2	SBLn1
Vol Left, %	100%	0%	100%	0%	0%
Vol Thru, %	0%	100%	0%	0%	56%
Vol Right, %	0%	0%	0%	100%	44%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	367	109	36	78	490
LT Vol	367	0	36	0	0
Through Vol	0	109	0	0	273
RT Vol	0	0	0	78	217
Lane Flow Rate	399	118	39	85	533
Geometry Grp	7	7	7	7	4
Degree of Util (X)	0.717	0.196	0.088	0.162	0.832
Departure Headway (Hd)	6.474	5.968	8.1	6.872	5.622
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	558	603	443	522	644
Service Time	4.199	3.692	5.839	4.611	3.645
HCM Lane V/C Ratio	0.715	0.196	0.088	0.163	0.828
HCM Control Delay	24	10.1	11.6	10.9	30.4
HCM Lane LOS	C	B	B	B	D
HCM 95th-tile Q	5.9	0.7	0.3	0.6	8.9

Intersection	
Intersection Delay, s/veh	54.4
Intersection LOS	F

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Vol, veh/h	0	10	61	9	0	209	465	47	0	0	139	39	0	15	393	59
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	22	22	22	10	22	22	22
Mvmt Flow	0	11	66	10	0	227	505	51	0	0	151	42	0	16	427	64
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	13.1	65.5	16	59.1
HCM LOS	B	F	C	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	12%	29%	3%
Vol Thru, %	78%	76%	64%	84%
Vol Right, %	22%	11%	7%	13%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	178	80	721	467
LT Vol	0	10	209	15
Through Vol	139	61	465	393
RT Vol	39	9	47	59
Lane Flow Rate	193	87	784	508
Geometry Grp	1	1	1	1
Degree of Util (X)	0.411	0.194	1	0.972
Departure Headway (Hd)	7.647	8.05	6.801	6.897
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	470	443	533	528
Service Time	5.705	6.14	4.882	4.936
HCM Lane V/C Ratio	0.411	0.196	1.471	0.962
HCM Control Delay	16	13.1	65.5	59.1
HCM Lane LOS	C	B	F	F
HCM 95th-tile Q	2	0.7	14	12.9

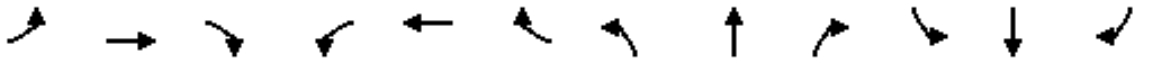
Intersection	
Int Delay, s/veh	21.2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	263	53	156	26	17	560
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	22	22	22	22
Mvmt Flow	286	58	170	28	18	609

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	830	184	0	0	198	0
Stage 1	184	-	-	-	-	-
Stage 2	646	-	-	-	-	-
Critical Hdwy	6.5	6.3	-	-	4.32	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	-	-	2.398	-
Pot Cap-1 Maneuver	329	838	-	-	1264	-
Stage 1	829	-	-	-	-	-
Stage 2	507	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	322	838	-	-	1264	-
Mov Cap-2 Maneuver	322	-	-	-	-	-
Stage 1	829	-	-	-	-	-
Stage 2	496	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	71.7	0	0.2
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	359	1264	-
HCM Lane V/C Ratio	-	-	0.957	0.015	-
HCM Control Delay (s)	-	-	71.7	7.9	0
HCM Lane LOS	-	-	F	A	A
HCM 95th %tile Q(veh)	-	-	10.4	0	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	129	135	5	32	630	0	75	13	7	1	96	610
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	140	147	5	35	685	0	82	14	8	1	104	663
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	232	884	30	630	919	0	75	397	227	557	78	498
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.53	0.53	0.53	0.53	0.53	0.00	0.38	0.38	0.38	0.38	0.38	0.38
Ln Grp Delay, s/veh	40.1	0.0	11.6	13.1	20.6	0.0	180.3	0.0	18.5	18.7	0.0	190.4
Ln Grp LOS	D		B	B	C		F		B	B		F
Approach Vol, veh/h		292			720			104			768	
Approach Delay, s/veh		25.3			20.3			146.1			190.2	
Approach LOS		C			C			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Case No		6.0		6.0		6.0		6.0
Phs Duration (G+Y+Rc), s		40.9		55.1		40.9		55.1
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green (Gmax), s		36.0		52.0		36.0		52.0
Max Allow Headway (MAH), s		4.5		4.4		4.5		4.4
Max Q Clear (g_c+I1), s		38.9		50.1		38.9		31.5
Green Ext Time (g_e), s		0.0		1.0		0.0		4.8
Prob of Phs Call (p_c)		1.00		1.00		1.00		1.00
Prob of Max Out (p_x)		1.00		1.00		1.00		0.07

Left-Turn Movement Data				
Assigned Mvmt	5	7	1	3
Mvmt Sat Flow, veh/h	647	699	1283	1141

Through Movement Data				
Assigned Mvmt	2	4	6	8
Mvmt Sat Flow, veh/h	1033	1661	203	1727

Right-Turn Movement Data				
Assigned Mvmt	12	14	16	18
Mvmt Sat Flow, veh/h	590	56	1295	0

Left Lane Group Data								
Assigned Mvmt	0	5	0	7	0	1	0	3
Lane Assignment								
Lanes in Grp	0	1	0	1	0	1	0	1

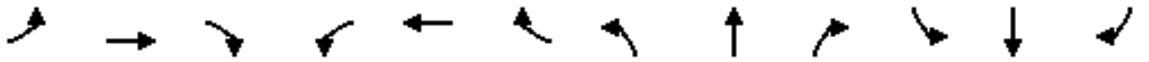
Grp Vol (v), veh/h	0	82	0	140	0	1	0	35
Grp Sat Flow (s), veh/h/ln	0	647	0	699	0	1283	0	1141
Q Serve Time (g_s), s	0.0	0.0	0.0	18.6	0.0	0.0	0.0	1.6
Cycle Q Clear Time (g_c), s	0.0	36.9	0.0	48.1	0.0	0.9	0.0	5.9
Perm LT Sat Flow (s_l), veh/h/ln	0	647	0	699	0	1283	0	1141
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	36.9	0.0	51.1	0.0	36.9	0.0	51.1
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	21.6	0.0	36.1	0.0	46.7
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	18.6	0.0	0.0	0.0	1.6
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	75	0	232	0	557	0	630
V/C Ratio (X)	0.00	1.09	0.00	0.60	0.00	0.00	0.00	0.06
Avail Cap (c_a), veh/h	0	75	0	239	0	557	0	641
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	48.0	0.0	36.1	0.0	18.7	0.0	13.0
Incr Delay (d2), s/veh	0.0	131.7	0.0	4.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	180.3	0.0	40.1	0.0	18.7	0.0	13.1
1st-Term Q (Q1), veh/ln	0.0	2.0	0.0	3.6	0.0	0.0	0.0	0.5
2nd-Term Q (Q2), veh/ln	0.0	2.7	0.0	0.3	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	4.7	0.0	3.8	0.0	0.0	0.0	0.5
%ile Storage Ratio (RQ%)	0.00	2.06	0.00	0.40	0.00	0.00	0.00	0.07
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	0	8
Lane Assignment								T
Lanes in Grp	0	0	0	0	0	0	0	1
Grp Vol (v), veh/h	0	0	0	0	0	0	0	685
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	1727
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.5
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.5
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	919
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.74
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	936
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.4
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.6
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.9
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	0	18
Lane Assignment		T+R		T+R		T+R		
Lanes in Grp	0	1	0	1	0	1	0	0
Grp Vol (v), veh/h	0	22	0	152	0	767	0	0
Grp Sat Flow (s), veh/h/ln	0	1623	0	1717	0	1499	0	0
Q Serve Time (g_s), s	0.0	0.8	0.0	4.4	0.0	36.9	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.8	0.0	4.4	0.0	36.9	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.36	0.00	0.03	0.00	0.86	0.00	0.00
Lane Grp Cap (c), veh/h	0	624	0	914	0	576	0	0
V/C Ratio (X)	0.00	0.04	0.00	0.17	0.00	1.33	0.00	0.00
Avail Cap (c_a), veh/h	0	624	0	930	0	576	0	0
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	18.4	0.0	11.5	0.0	29.6	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.1	0.0	0.1	0.0	160.9	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	18.5	0.0	11.6	0.0	190.4	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.4	0.0	2.1	0.0	15.2	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	25.7	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.4	0.0	2.1	0.0	40.9	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.01	0.00	0.13	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	47.8	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	97.3
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	129	135	5	32	630	0	75	13	7	1	96	610
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	140	147	5	35	685	0	82	14	8	1	104	663
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	232	884	30	630	919	0	75	397	227	557	78	498
Arrive On Green	0.53	0.53	0.53	0.53	0.53	0.00	0.38	0.38	0.38	0.38	0.38	0.38
Sat Flow, veh/h	699	1661	56	1141	1727	0	647	1033	590	1283	203	1295
Grp Volume(v), veh/h	140	0	152	35	685	0	82	0	22	1	0	767
Grp Sat Flow(s),veh/h/ln	699	0	1717	1141	1727	0	647	0	1623	1283	0	1499
Q Serve(g_s), s	18.6	0.0	4.4	1.6	29.5	0.0	0.0	0.0	0.8	0.0	0.0	36.9
Cycle Q Clear(g_c), s	48.1	0.0	4.4	5.9	29.5	0.0	36.9	0.0	0.8	0.9	0.0	36.9
Prop In Lane	1.00		0.03	1.00		0.00	1.00		0.36	1.00		0.86
Lane Grp Cap(c), veh/h	232	0	914	630	919	0	75	0	624	557	0	576
V/C Ratio(X)	0.60	0.00	0.17	0.06	0.74	0.00	1.09	0.00	0.04	0.00	0.00	1.33
Avail Cap(c_a), veh/h	239	0	930	641	936	0	75	0	624	557	0	576
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	36.1	0.0	11.5	13.0	17.4	0.0	48.0	0.0	18.4	18.7	0.0	29.6
Incr Delay (d2), s/veh	4.0	0.0	0.1	0.0	3.2	0.0	131.7	0.0	0.1	0.0	0.0	160.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.8	0.0	2.1	0.5	14.7	0.0	4.7	0.0	0.4	0.0	0.0	40.9
LnGrp Delay(d),s/veh	40.1	0.0	11.6	13.1	20.6	0.0	180.3	0.0	18.5	18.7	0.0	190.4
LnGrp LOS	D		B	B	C		F		B	B		F
Approach Vol, veh/h		292			720			104			768	
Approach Delay, s/veh		25.3			20.3			146.1			190.2	
Approach LOS		C			C			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Phs Duration (G+Y+Rc), s		40.9		55.1		40.9		55.1
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green Setting (Gmax), s		36.0		52.0		36.0		52.0
Max Q Clear Time (g_c+I1), s		38.9		50.1		38.9		31.5
Green Ext Time (p_c), s		0.0		1.0		0.0		4.8

Intersection Summary		
HCM 2010 Ctrl Delay		97.3
HCM 2010 LOS		F

Intersection	
Intersection Delay, s/veh	14.7
Intersection LOS	C

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Vol, veh/h	0	11	10	16	0	174	20	373	0	16	163	26	0	68	216	2
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	12	11	17	0	189	22	405	0	17	177	28	0	74	235	2
Number of Lanes	0	0	1	0	0	0	1	1	0	0	1	0	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	2	1
HCM Control Delay	10.3	16.7	13.2	16.1
HCM LOS	B	C	B	C

Lane	NBLn1	EBLn1	WBLn1	WBLn2	SBLn1
Vol Left, %	8%	30%	90%	0%	24%
Vol Thru, %	80%	27%	10%	0%	76%
Vol Right, %	13%	43%	0%	100%	1%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	205	37	194	373	286
LT Vol	16	11	174	0	68
Through Vol	163	10	20	0	216
RT Vol	26	16	0	373	2
Lane Flow Rate	223	40	211	405	311
Geometry Grp	2	5	7	7	2
Degree of Util (X)	0.387	0.075	0.4	0.638	0.533
Departure Headway (Hd)	6.25	6.671	6.835	5.668	6.176
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	573	533	525	637	581
Service Time	4.317	4.765	4.592	3.425	4.235
HCM Lane V/C Ratio	0.389	0.075	0.402	0.636	0.535
HCM Control Delay	13.2	10.3	14.1	18	16.1
HCM Lane LOS	B	B	B	C	C
HCM 95th-tile Q	1.8	0.2	1.9	4.6	3.1

Movement	NBL	NBR	SET	SER	NWL	NWT
Lane Configurations						
Volume (veh/h)	85	3	0	0	0	0
Number	5	12	4	14	3	8
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1598	1598	1727	1727
Adj Flow Rate, veh/h	92	3	0	0	0	0
Adj No. of Lanes	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Opposing Right Turn Influence	Yes				Yes	
Cap, veh/h	119	107	1340	1139	2	1448
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.07	0.07	0.00	0.00	0.00	0.00
Ln Grp Delay, s/veh	51.0	38.9	0.0	0.0	0.0	0.0
Ln Grp LOS	D	D				
Approach Vol, veh/h	95		0			0
Approach Delay, s/veh	50.6		0.0			0.0
Approach LOS	D					

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4				8
Case No		9.0	2.0	7.0				4.0
Phs Duration (G+Y+Rc), s		10.5	0.0	79.5				79.5
Change Period (Y+Rc), s		4.0	4.0	4.0				4.0
Max Green (Gmax), s		30.0	18.0	30.0				52.0
Max Allow Headway (MAH), s		4.1	0.0	0.0				0.0
Max Q Clear (g_c+I1), s		6.9	0.0	0.0				0.0
Green Ext Time (g_e), s		0.3	0.0	0.0				0.0
Prob of Phs Call (p_c)		0.91	0.00	0.00				0.00
Prob of Max Out (p_x)		0.00	0.00	0.00				0.00

Left-Turn Movement Data								
Assigned Mvmt		5	3	7				
Mvmt Sat Flow, veh/h		1645	1645	0				

Through Movement Data								
Assigned Mvmt		2		4				8
Mvmt Sat Flow, veh/h		0		1598				1727

Right-Turn Movement Data								
Assigned Mvmt		12		14				18
Mvmt Sat Flow, veh/h		1468		1358				0

Left Lane Group Data								
Assigned Mvmt	0	5	3	7	0	0	0	0
Lane Assignment			(Prot)					
Lanes in Grp	0	1	1	0	0	0	0	0

Grp Vol (v), veh/h	0	92	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	1645	1645	0	0	0	0	0
Q Serve Time (g_s), s	0.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	1645	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	75.5	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	119	2	0	0	0	0	0
V/C Ratio (X)	0.00	0.77	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	548	329	0	0	0	0	0
Upstream Filter (I)	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	41.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	51.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	0	0	8
Lane Assignment				T				T
Lanes in Grp	0	0	0	1	0	0	0	1
Grp Vol (v), veh/h	0	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1598	0	0	0	1727
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	1340	0	0	0	1448
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	1340	0	0	0	1448
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

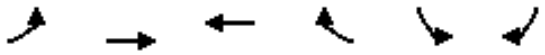
Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	0	0	18
Lane Assignment		R		R				
Lanes in Grp	0	1	0	1	0	0	0	0
Grp Vol (v), veh/h	0	3	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	1468	0	1358	0	0	0	0
Q Serve Time (g_s), s	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	107	0	1139	0	0	0	0
V/C Ratio (X)	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	489	0	1139	0	0	0	0
Upstream Filter (I)	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	38.8	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	38.9	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	50.6
HCM 2010 LOS	D

Movement	NBL	NBR	SET	SER	NWL	NWT
Lane Configurations						
Volume (veh/h)	85	3	0	0	0	0
Number	5	12	4	14	3	8
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1598	1598	1727	1727
Adj Flow Rate, veh/h	92	3	0	0	0	0
Adj No. of Lanes	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Cap, veh/h	119	107	1340	1139	2	1448
Arrive On Green	0.07	0.07	0.00	0.00	0.00	0.00
Sat Flow, veh/h	1645	1468	1598	1358	1645	1727
Grp Volume(v), veh/h	92	3	0	0	0	0
Grp Sat Flow(s),veh/h/ln	1645	1468	1598	1358	1645	1727
Q Serve(g_s), s	4.9	0.2	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	4.9	0.2	0.0	0.0	0.0	0.0
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	119	107	1340	1139	2	1448
V/C Ratio(X)	0.77	0.03	0.00	0.00	0.00	0.00
Avail Cap(c_a), veh/h	548	489	1340	1139	329	1448
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	0.00	0.00	0.00
Uniform Delay (d), s/veh	41.0	38.8	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	10.0	0.1	0.0	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.6	0.1	0.0	0.0	0.0	0.0
LnGrp Delay(d),s/veh	51.0	38.9	0.0	0.0	0.0	0.0
LnGrp LOS	D	D				
Approach Vol, veh/h	95		0			0
Approach Delay, s/veh	50.6		0.0			0.0
Approach LOS	D					

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4				8
Phs Duration (G+Y+Rc), s		10.5	0.0	79.5				79.5
Change Period (Y+Rc), s		4.0	4.0	4.0				4.0
Max Green Setting (Gmax), s		30.0	18.0	30.0				52.0
Max Q Clear Time (g_c+I1), s		6.9	0.0	0.0				0.0
Green Ext Time (p_c), s		0.3	0.0	0.0				0.0

Intersection Summary	
HCM 2010 Ctrl Delay	50.6
HCM 2010 LOS	D



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (veh/h)	0	241	443	111	99	19
Number	7	4	8	18	1	16
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00			1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	262	482	121	108	21
Adj No. of Lanes	1	2	2	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Opposing Right Turn Influence	Yes				Yes	
Cap, veh/h	2	2694	2694	1205	148	133
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.00	0.82	0.82	0.82	0.09	0.09
Ln Grp Delay, s/veh	0.0	1.6	1.8	1.7	46.5	38.3
Ln Grp LOS		A	A	A	D	D
Approach Vol, veh/h		262	603		129	
Approach Delay, s/veh		1.6	1.8		45.2	
Approach LOS		A	A		D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	6			4			7	8
Case No	9.0			4.0			2.0	7.0
Phs Duration (G+Y+Rc), s	12.1			77.9			0.0	77.9
Change Period (Y+Rc), s	4.0			4.0			4.0	4.0
Max Green (Gmax), s	29.0			53.0			17.0	32.0
Max Allow Headway (MAH), s	4.1			4.1			0.0	4.1
Max Q Clear (g_c+I1), s	7.8			3.4			0.0	4.8
Green Ext Time (g_e), s	0.4			3.8			0.0	3.7
Prob of Phs Call (p_c)	1.00			1.00			0.00	1.00
Prob of Max Out (p_x)	0.00			0.00			0.00	0.00

Left-Turn Movement Data								
Assigned Mvmt	1						7	3
Mvmt Sat Flow, veh/h	1645						1645	0

Through Movement Data								
Assigned Mvmt	6			4				8
Mvmt Sat Flow, veh/h	0			3368				3368

Right-Turn Movement Data								
Assigned Mvmt	16			14				18
Mvmt Sat Flow, veh/h	1468			0				1468

Left Lane Group Data								
Assigned Mvmt	1	0	0	0	0	0	7	3
Lane Assignment							(Prot)	
Lanes in Grp	1	0	0	0	0	0	1	0

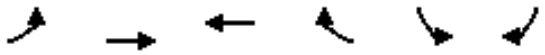
Grp Vol (v), veh/h	108	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	1645	0	0	0	0	0	1645	0
Q Serve Time (g_s), s	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	1645	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73.9
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	148	0	0	0	0	0	2	0
V/C Ratio (X)	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	530	0	0	0	0	0	311	0
Upstream Filter (I)	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	39.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	46.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00
%ile Back of Q (50%), veh/ln	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	6	0	0	4	0	0	0	8
Lane Assignment				T				T
Lanes in Grp	0	0	0	2	0	0	0	2
Grp Vol (v), veh/h	0	0	0	262	0	0	0	482
Grp Sat Flow (s), veh/h/ln	0	0	0	1641	0	0	0	1641
Q Serve Time (g_s), s	0.0	0.0	0.0	1.4	0.0	0.0	0.0	2.8
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	1.4	0.0	0.0	0.0	2.8
Lane Grp Cap (c), veh/h	0	0	0	2694	0	0	0	2694
V/C Ratio (X)	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.18
Avail Cap (c_a), veh/h	0	0	0	2694	0	0	0	2694
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99
Uniform Delay (d1), s/veh	0.0	0.0	0.0	1.6	0.0	0.0	0.0	1.7
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	1.6	0.0	0.0	0.0	1.8
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.6	0.0	0.0	0.0	1.2
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.6	0.0	0.0	0.0	1.3
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	16	0	0	14	0	0	0	18
Lane Assignment	R							R
Lanes in Grp	1	0	0	0	0	0	0	1
Grp Vol (v), veh/h	21	0	0	0	0	0	0	121
Grp Sat Flow (s), veh/h/ln	1468	0	0	0	0	0	0	1468
Q Serve Time (g_s), s	1.2	0.0	0.0	0.0	0.0	0.0	0.0	1.4
Cycle Q Clear Time (g_c), s	1.2	0.0	0.0	0.0	0.0	0.0	0.0	1.4
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	133	0	0	0	0	0	0	1205
V/C Ratio (X)	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.10
Avail Cap (c_a), veh/h	473	0	0	0	0	0	0	1205
Upstream Filter (I)	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99
Uniform Delay (d1), s/veh	37.8	0.0	0.0	0.0	0.0	0.0	0.0	1.6
Incr Delay (d2), s/veh	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	38.3	0.0	0.0	0.0	0.0	0.0	0.0	1.7
1st-Term Q (Q1), veh/ln	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
%ile Storage Ratio (RQ%)	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.11
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	7.4
HCM 2010 LOS	A



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (veh/h)	0	241	443	111	99	19
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	262	482	121	108	21
Adj No. of Lanes	1	2	2	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Cap, veh/h	2	2694	2694	1205	148	133
Arrive On Green	0.00	0.82	0.82	0.82	0.09	0.09
Sat Flow, veh/h	1645	3368	3368	1468	1645	1468
Grp Volume(v), veh/h	0	262	482	121	108	21
Grp Sat Flow(s),veh/h/ln	1645	1641	1641	1468	1645	1468
Q Serve(g_s), s	0.0	1.4	2.8	1.4	5.8	1.2
Cycle Q Clear(g_c), s	0.0	1.4	2.8	1.4	5.8	1.2
Prop In Lane	1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	2	2694	2694	1205	148	133
V/C Ratio(X)	0.00	0.10	0.18	0.10	0.73	0.16
Avail Cap(c_a), veh/h	311	2694	2694	1205	530	473
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	0.99	0.99	1.00	1.00
Uniform Delay (d), s/veh	0.0	1.6	1.7	1.6	39.9	37.8
Incr Delay (d2), s/veh	0.0	0.1	0.1	0.2	6.6	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.6	1.3	0.6	2.9	1.0
LnGrp Delay(d),s/veh	0.0	1.6	1.8	1.7	46.5	38.3
LnGrp LOS		A	A	A	D	D
Approach Vol, veh/h		262	603		129	
Approach Delay, s/veh		1.6	1.8		45.2	
Approach LOS		A	A		D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6	7	8
Phs Duration (G+Y+Rc), s				77.9		12.1	0.0	77.9
Change Period (Y+Rc), s				4.0		4.0	4.0	4.0
Max Green Setting (Gmax), s				53.0		29.0	17.0	32.0
Max Q Clear Time (g_c+I1), s				3.4		7.8	0.0	4.8
Green Ext Time (p_c), s				3.8		0.4	0.0	3.7

Intersection Summary	
HCM 2010 Ctrl Delay	7.4
HCM 2010 LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	6	293	12	45	705	16	180	267	82	3	67	8
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	7	318	13	49	766	17	196	290	89	3	73	9
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	408	1861	832	60	1167	522	232	372	316	5	133	113
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.25	0.57	0.57	0.04	0.36	0.36	0.14	0.22	0.22	0.00	0.08	0.08
Ln Grp Delay, s/veh	25.6	9.5	8.5	63.3	27.0	14.0	47.6	36.9	30.0	115.7	43.5	15.8
Ln Grp LOS	C	A	A	E	C	B	D	D	C	F	D	B
Approach Vol, veh/h		338			832			575			85	
Approach Delay, s/veh		9.8			28.9			39.5			43.1	
Approach LOS		A			C			D			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	8	7
Case No	2.0	3.0	2.0	3.0	2.0	3.0	3.0	2.0
Phs Duration (G+Y+Rc), s	4.3	23.4	7.3	55.0	16.7	11.0	36.0	26.3
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	5.0	32.0	8.0	29.0	20.0	17.0	32.0	5.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.0	4.1	4.1	4.0	4.0
Max Q Clear (g_c+I1), s	2.2	16.2	4.7	6.2	12.5	5.7	19.7	2.3
Green Ext Time (g_e), s	0.0	1.5	0.0	1.3	0.4	1.3	2.8	0.0
Prob of Phs Call (p_c)	0.07	1.00	0.71	1.00	0.99	1.00	1.00	0.16
Prob of Max Out (p_x)	1.00	0.01	1.00	0.00	0.09	0.05	0.00	1.00

Left-Turn Movement Data								
Assigned Mvmt	1		3		5			7
Mvmt Sat Flow, veh/h	1645		1645		1645			1645

Through Movement Data								
Assigned Mvmt		2		4		6	8	
Mvmt Sat Flow, veh/h		1727		3282		1727	3282	

Right-Turn Movement Data								
Assigned Mvmt		12		14		16	18	
Mvmt Sat Flow, veh/h		1468		1468		1468	1468	

Left Lane Group Data								
Assigned Mvmt	1	0	3	0	5	0	0	7
Lane Assignment	(Prot)		(Prot)		(Prot)			(Prot)
Lanes in Grp	1	0	1	0	1	0	0	1

Grp Vol (v), veh/h	3	0	49	0	196	0	0	7
Grp Sat Flow (s), veh/h/ln	1645	0	1645	0	1645	0	0	1645
Q Serve Time (g_s), s	0.2	0.0	2.7	0.0	10.5	0.0	0.0	0.3
Cycle Q Clear Time (g_c), s	0.2	0.0	2.7	0.0	10.5	0.0	0.0	0.3
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	5	0	60	0	232	0	0	408
V/C Ratio (X)	0.57	0.00	0.81	0.00	0.84	0.00	0.00	0.02
Avail Cap (c_a), veh/h	91	0	146	0	366	0	0	408
Upstream Filter (I)	1.00	0.00	0.91	0.00	1.00	0.00	0.00	0.98
Uniform Delay (d1), s/veh	44.8	0.0	43.0	0.0	37.7	0.0	0.0	25.5
Incr Delay (d2), s/veh	70.9	0.0	20.2	0.0	9.9	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	115.7	0.0	63.3	0.0	47.6	0.0	0.0	25.6
1st-Term Q (Q1), veh/ln	0.1	0.0	1.2	0.0	4.7	0.0	0.0	0.1
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.3	0.0	0.6	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.2	0.0	1.6	0.0	5.4	0.0	0.0	0.1
%ile Storage Ratio (RQ%)	0.06	0.00	0.11	0.00	1.19	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	8	0
Lane Assignment		T		T		T	T	
Lanes in Grp	0	1	0	2	0	1	2	0
Grp Vol (v), veh/h	0	290	0	318	0	73	766	0
Grp Sat Flow (s), veh/h/ln	0	1727	0	1641	0	1727	1641	0
Q Serve Time (g_s), s	0.0	14.2	0.0	4.2	0.0	3.7	17.7	0.0
Cycle Q Clear Time (g_c), s	0.0	14.2	0.0	4.2	0.0	3.7	17.7	0.0
Lane Grp Cap (c), veh/h	0	372	0	1861	0	133	1167	0
V/C Ratio (X)	0.00	0.78	0.00	0.17	0.00	0.55	0.66	0.00
Avail Cap (c_a), veh/h	0	614	0	1861	0	326	1167	0
Upstream Filter (I)	0.00	1.00	0.00	0.98	0.00	1.00	0.91	0.00
Uniform Delay (d1), s/veh	0.0	33.3	0.0	9.3	0.0	40.0	24.4	0.0
Incr Delay (d2), s/veh	0.0	3.6	0.0	0.2	0.0	3.5	2.6	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	36.9	0.0	9.5	0.0	43.5	27.0	0.0
1st-Term Q (Q1), veh/ln	0.0	6.8	0.0	1.9	0.0	1.7	8.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.4	0.0	0.1	0.0	0.1	0.4	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	7.1	0.0	1.9	0.0	1.9	8.4	0.0
%ile Storage Ratio (RQ%)	0.00	0.08	0.00	0.01	0.00	0.01	0.02	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	18	0
Lane Assignment		R		R		R	R	
Lanes in Grp	0	1	0	1	0	1	1	0
Grp Vol (v), veh/h	0	89	0	13	0	9	17	0
Grp Sat Flow (s), veh/h/ln	0	1468	0	1468	0	1468	1468	0
Q Serve Time (g_s), s	0.0	4.6	0.0	0.3	0.0	0.3	0.6	0.0
Cycle Q Clear Time (g_c), s	0.0	4.6	0.0	0.3	0.0	0.3	0.6	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	316	0	832	0	113	522	0
V/C Ratio (X)	0.00	0.28	0.00	0.02	0.00	0.08	0.03	0.00
Avail Cap (c_a), veh/h	0	522	0	832	0	277	522	0
Upstream Filter (I)	0.00	1.00	0.00	0.98	0.00	1.00	0.91	0.00
Uniform Delay (d1), s/veh	0.0	29.5	0.0	8.5	0.0	15.5	13.9	0.0
Incr Delay (d2), s/veh	0.0	0.5	0.0	0.0	0.0	0.3	0.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	30.0	0.0	8.5	0.0	15.8	14.0	0.0
1st-Term Q (Q1), veh/ln	0.0	1.8	0.0	0.1	0.0	0.1	0.2	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	1.9	0.0	0.1	0.0	0.1	0.3	0.0
%ile Storage Ratio (RQ%)	0.00	0.42	0.00	0.02	0.00	0.04	0.03	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	29.4
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	6	293	12	45	705	16	180	267	82	3	67	8
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	7	318	13	49	766	17	196	290	89	3	73	9
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	408	1861	832	60	1167	522	232	372	316	5	133	113
Arrive On Green	0.25	0.57	0.57	0.04	0.36	0.36	0.14	0.22	0.22	0.00	0.08	0.08
Sat Flow, veh/h	1645	3282	1468	1645	3282	1468	1645	1727	1468	1645	1727	1468
Grp Volume(v), veh/h	7	318	13	49	766	17	196	290	89	3	73	9
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1641	1468	1645	1727	1468	1645	1727	1468
Q Serve(g_s), s	0.3	4.2	0.3	2.7	17.7	0.6	10.5	14.2	4.6	0.2	3.7	0.3
Cycle Q Clear(g_c), s	0.3	4.2	0.3	2.7	17.7	0.6	10.5	14.2	4.6	0.2	3.7	0.3
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	408	1861	832	60	1167	522	232	372	316	5	133	113
V/C Ratio(X)	0.02	0.17	0.02	0.81	0.66	0.03	0.84	0.78	0.28	0.57	0.55	0.08
Avail Cap(c_a), veh/h	408	1861	832	146	1167	522	366	614	522	91	326	277
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.98	0.98	0.98	0.91	0.91	0.91	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	25.5	9.3	8.5	43.0	24.4	13.9	37.7	33.3	29.5	44.8	40.0	15.5
Incr Delay (d2), s/veh	0.0	0.2	0.0	20.2	2.6	0.1	9.9	3.6	0.5	70.9	3.5	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	1.9	0.1	1.6	8.4	0.3	5.4	7.1	1.9	0.2	1.9	0.1
LnGrp Delay(d),s/veh	25.6	9.5	8.5	63.3	27.0	14.0	47.6	36.9	30.0	115.7	43.5	15.8
LnGrp LOS	C	A	A	E	C	B	D	D	C	F	D	B
Approach Vol, veh/h		338			832			575			85	
Approach Delay, s/veh		9.8			28.9			39.5			43.1	
Approach LOS		A			C			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	4.3	23.4	7.3	55.0	16.7	11.0	26.3	36.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	5.0	32.0	8.0	29.0	20.0	17.0	5.0	32.0
Max Q Clear Time (g_c+I1), s	2.2	16.2	4.7	6.2	12.5	5.7	2.3	19.7
Green Ext Time (p_c), s	0.0	1.5	0.0	1.3	0.4	1.3	0.0	2.8

Intersection Summary	
HCM 2010 Ctrl Delay	29.4
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	362	17	140	755	1	73	0	538	3	2	0
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	393	18	152	821	1	79	0	585	3	2	0
Adj No. of Lanes	1	2	1	1	2	0	2	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	4	633	283	283	1545	2	518	438	372	5	163	139
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.00	0.19	0.19	0.17	0.46	0.46	0.16	0.00	0.25	0.00	0.09	0.00
Ln Grp Delay, s/veh	0.0	16.6	14.0	17.6	8.8	8.7	15.3	0.0	264.2	88.7	17.4	0.0
Ln Grp LOS		B	B	B	A	A	B		F	F	B	
Approach Vol, veh/h		411			974			664			5	
Approach Delay, s/veh		16.5			10.1			234.6			60.2	
Approach LOS		B			B			F			E	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	6	5	7	8
Case No	2.0	3.0	3.0	2.0	3.0	2.0	2.0	4.0
Phs Duration (G+Y+Rc), s	4.1	14.7	12.1	11.3	8.0	10.9	0.0	23.4
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	6.0	37.0	24.0	19.0	25.0	18.0	6.0	37.0
Max Allow Headway (MAH), s	4.1	4.3	4.0	4.0	4.0	4.3	0.0	4.0
Max Q Clear (g_c+I1), s	2.1	7.5	6.6	5.6	2.0	2.9	0.0	9.4
Green Ext Time (g_e), s	0.0	3.2	1.5	3.2	0.0	2.7	0.0	3.7
Prob of Phs Call (p_c)	0.03	1.00	1.00	0.83	1.00	1.00	0.00	1.00
Prob of Max Out (p_x)	1.00	0.00	0.00	0.14	0.00	0.06	0.00	0.01

Left-Turn Movement Data								
Assigned Mvmt	1			3		5	7	
Mvmt Sat Flow, veh/h	1645			1645		3191	1645	

Through Movement Data								
Assigned Mvmt		2	4		6			8
Mvmt Sat Flow, veh/h		1727	3282		1727			3363

Right-Turn Movement Data								
Assigned Mvmt		12	14		16			18
Mvmt Sat Flow, veh/h		1468	1468		1468			4

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	0	5	7	0
Lane Assignment	(Prot)			(Prot)		(Prot)	(Prot)	
Lanes in Grp	1	0	0	1	0	2	1	0

Grp Vol (v), veh/h	3	0	0	152	0	79	0	0
Grp Sat Flow (s), veh/h/ln	1645	0	0	1645	0	1596	1645	0
Q Serve Time (g_s), s	0.1	0.0	0.0	3.6	0.0	0.9	0.0	0.0
Cycle Q Clear Time (g_c), s	0.1	0.0	0.0	3.6	0.0	0.9	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	5	0	0	283	0	518	4	0
V/C Ratio (X)	0.56	0.00	0.00	0.54	0.00	0.15	0.00	0.00
Avail Cap (c_a), veh/h	234	0	0	740	0	1359	234	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00
Uniform Delay (d1), s/veh	21.0	0.0	0.0	16.0	0.0	15.2	0.0	0.0
Incr Delay (d2), s/veh	67.7	0.0	0.0	1.6	0.0	0.1	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	88.7	0.0	0.0	17.6	0.0	15.3	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	1.6	0.0	0.4	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.1	0.0	0.0	1.7	0.0	0.4	0.0	0.0
%ile Storage Ratio (RQ%)	0.04	0.00	0.00	0.47	0.00	0.07	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	6	0	0	8
Lane Assignment		T	T		T			T
Lanes in Grp	0	1	2	0	1	0	0	1
Grp Vol (v), veh/h	0	0	393	0	2	0	0	401
Grp Sat Flow (s), veh/h/ln	0	1727	1641	0	1727	0	0	1641
Q Serve Time (g_s), s	0.0	0.0	4.6	0.0	0.0	0.0	0.0	7.4
Cycle Q Clear Time (g_c), s	0.0	0.0	4.6	0.0	0.0	0.0	0.0	7.4
Lane Grp Cap (c), veh/h	0	438	633	0	163	0	0	754
V/C Ratio (X)	0.00	0.00	0.62	0.00	0.01	0.00	0.00	0.53
Avail Cap (c_a), veh/h	0	1512	1864	0	1022	0	0	1436
Upstream Filter (I)	0.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	15.6	0.0	17.3	0.0	0.0	8.2
Incr Delay (d2), s/veh	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.6
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	16.6	0.0	17.4	0.0	0.0	8.8
1st-Term Q (Q1), veh/ln	0.0	0.0	2.1	0.0	0.0	0.0	0.0	3.2
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	2.2	0.0	0.0	0.0	0.0	3.3
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	14	0	16	0	0	18
Lane Assignment		R	R		R			T+R
Lanes in Grp	0	1	1	0	1	0	0	1
Grp Vol (v), veh/h	0	585	18	0	0	0	0	421
Grp Sat Flow (s), veh/h/ln	0	1468	1468	0	1468	0	0	1727
Q Serve Time (g_s), s	0.0	5.5	0.4	0.0	0.0	0.0	0.0	7.4
Cycle Q Clear Time (g_c), s	0.0	5.5	0.4	0.0	0.0	0.0	0.0	7.4
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	372	283	0	139	0	0	793
V/C Ratio (X)	0.00	1.57	0.06	0.00	0.00	0.00	0.00	0.53
Avail Cap (c_a), veh/h	0	1285	834	0	868	0	0	1511
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	4.2	13.9	0.0	0.0	0.0	0.0	8.2
Incr Delay (d2), s/veh	0.0	260.0	0.1	0.0	0.0	0.0	0.0	0.6
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	264.2	14.0	0.0	0.0	0.0	0.0	8.7
1st-Term Q (Q1), veh/ln	0.0	2.2	0.2	0.0	0.0	0.0	0.0	3.4
2nd-Term Q (Q2), veh/ln	0.0	26.9	0.0	0.0	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	29.1	0.2	0.0	0.0	0.0	0.0	3.5
%ile Storage Ratio (RQ%)	0.00	7.34	0.02	0.00	0.00	0.00	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	53.2	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	84.1
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	362	17	140	755	1	73	0	538	3	2	0
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	393	18	152	821	1	79	0	585	3	2	0
Adj No. of Lanes	1	2	1	1	2	0	2	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	4	633	283	283	1545	2	518	438	372	5	163	139
Arrive On Green	0.00	0.19	0.19	0.17	0.46	0.46	0.16	0.00	0.25	0.00	0.09	0.00
Sat Flow, veh/h	1645	3282	1468	1645	3363	4	3191	1727	1468	1645	1727	1468
Grp Volume(v), veh/h	0	393	18	152	401	421	79	0	585	3	2	0
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1641	1727	1596	1727	1468	1645	1727	1468
Q Serve(g_s), s	0.0	4.6	0.4	3.6	7.4	7.4	0.9	0.0	5.5	0.1	0.0	0.0
Cycle Q Clear(g_c), s	0.0	4.6	0.4	3.6	7.4	7.4	0.9	0.0	5.5	0.1	0.0	0.0
Prop In Lane	1.00		1.00	1.00		0.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	4	633	283	283	754	793	518	438	372	5	163	139
V/C Ratio(X)	0.00	0.62	0.06	0.54	0.53	0.53	0.15	0.00	1.57	0.56	0.01	0.00
Avail Cap(c_a), veh/h	234	1864	834	740	1436	1511	1359	1512	1285	234	1022	868
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	0.0	15.6	13.9	16.0	8.2	8.2	15.2	0.0	4.2	21.0	17.3	0.0
Incr Delay (d2), s/veh	0.0	1.0	0.1	1.6	0.6	0.6	0.1	0.0	260.0	67.7	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	2.2	0.2	1.7	3.3	3.5	0.4	0.0	29.1	0.1	0.0	0.0
LnGrp Delay(d),s/veh	0.0	16.6	14.0	17.6	8.8	8.7	15.3	0.0	264.2	88.7	17.4	0.0
LnGrp LOS		B	B	B	A	A	B		F	F	B	
Approach Vol, veh/h		411			974			664			5	
Approach Delay, s/veh		16.5			10.1			234.6			60.2	
Approach LOS		B			B			F			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	4.1	14.7	11.3	12.1	10.9	8.0	0.0	23.4
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax),6s	0	37.0	19.0	24.0	18.0	25.0	6.0	37.0
Max Q Clear Time (g_c+I1),2s	1	7.5	5.6	6.6	2.9	2.0	0.0	9.4
Green Ext Time (p_c), s	0.0	3.2	3.2	1.5	2.7	0.0	0.0	3.7

Intersection Summary		
HCM 2010 Ctrl Delay	84.1	
HCM 2010 LOS	F	

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	27	912	36	123	0	73	88	21	288	10	4	11
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	29	991	39	134	0	79	96	23	313	11	4	12
Adj No. of Lanes	1	2	0	1	2	1	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	876	2102	83	332	2143	959	403	26	357	119	98	295
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.65	0.65	0.65	0.65	0.00	0.65	0.26	0.26	0.26	0.26	0.26	0.26
Ln Grp Delay, s/veh	5.6	9.0	8.9	19.0	0.0	5.9	27.6	0.0	48.5	42.2	0.0	25.1
Ln Grp LOS	A	A	A	B		A	C		D	D		C
Approach Vol, veh/h		1059			213			432			27	
Approach Delay, s/veh		8.9			14.1			43.8			32.1	
Approach LOS		A			B			D			C	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Case No		6.0		6.0		6.0		5.0
Phs Duration (G+Y+Rc), s		27.2		62.8		27.2		62.8
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green (Gmax), s		26.0		56.0		26.0		56.0
Max Allow Headway (MAH), s		4.3		4.5		4.3		4.5
Max Q Clear (g_c+I1), s		21.6		15.9		22.6		32.1
Green Ext Time (g_e), s		0.8		7.3		0.7		6.6
Prob of Phs Call (p_c)		1.00		1.00		1.00		1.00
Prob of Max Out (p_x)		0.96		0.00		1.00		0.00

Left-Turn Movement Data								
Assigned Mvmt		5		7		1		3
Mvmt Sat Flow, veh/h		1290		1219		964		506

Through Movement Data								
Assigned Mvmt		2		4		6		8
Mvmt Sat Flow, veh/h		102		3219		381		3282

Right-Turn Movement Data								
Assigned Mvmt		12		14		16		18
Mvmt Sat Flow, veh/h		1382		127		1144		1468

Left Lane Group Data								
Assigned Mvmt	0	5	0	7	0	1	0	3
Lane Assignment								
Lanes in Grp	0	1	0	1	0	1	0	1

Grp Vol (v), veh/h	0	96	0	29	0	11	0	134
Grp Sat Flow (s), veh/h/ln	0	1290	0	1219	0	964	0	506
Q Serve Time (g_s), s	0.0	5.4	0.0	0.8	0.0	1.0	0.0	16.3
Cycle Q Clear Time (g_c), s	0.0	6.1	0.0	0.8	0.0	20.6	0.0	30.1
Perm LT Sat Flow (s_l), veh/h/ln	0	1290	0	1219	0	964	0	506
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	23.2	0.0	58.8	0.0	23.2	0.0	58.8
Perm LT Serve Time (g_u), s	0.0	22.5	0.0	58.8	0.0	3.7	0.0	44.9
Perm LT Q Serve Time (g_ps), s	0.0	5.4	0.0	0.8	0.0	1.0	0.0	16.3
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	403	0	876	0	119	0	332
V/C Ratio (X)	0.00	0.24	0.00	0.03	0.00	0.09	0.00	0.40
Avail Cap (c_a), veh/h	0	443	0	876	0	149	0	332
Upstream Filter (I)	0.00	0.95	0.00	0.77	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	27.3	0.0	5.5	0.0	41.9	0.0	15.4
Incr Delay (d2), s/veh	0.0	0.3	0.0	0.1	0.0	0.3	0.0	3.6
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	27.6	0.0	5.6	0.0	42.2	0.0	19.0
1st-Term Q (Q1), veh/ln	0.0	1.9	0.0	0.3	0.0	0.3	0.0	2.3
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	2.0	0.0	0.3	0.0	0.3	0.0	2.6
%ile Storage Ratio (RQ%)	0.00	0.46	0.00	0.02	0.00	0.01	0.00	0.36
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	0	8
Lane Assignment				T				T
Lanes in Grp	0	0	0	1	0	0	0	2
Grp Vol (v), veh/h	0	0	0	505	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1641	0	0	0	1641
Q Serve Time (g_s), s	0.0	0.0	0.0	13.9	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	13.9	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	1072	0	0	0	2143
V/C Ratio (X)	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	1072	0	0	0	2143
Upstream Filter (I)	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	7.8	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	9.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	6.2	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	6.5	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	0	18
Lane Assignment		T+R		T+R		T+R		R
Lanes in Grp	0	1	0	1	0	1	0	1
Grp Vol (v), veh/h	0	336	0	525	0	16	0	79
Grp Sat Flow (s), veh/h/ln	0	1483	0	1705	0	1525	0	1468
Q Serve Time (g_s), s	0.0	19.6	0.0	13.9	0.0	0.7	0.0	1.8
Cycle Q Clear Time (g_c), s	0.0	19.6	0.0	13.9	0.0	0.7	0.0	1.8
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.93	0.00	0.07	0.00	0.75	0.00	1.00
Lane Grp Cap (c), veh/h	0	383	0	1114	0	394	0	959
V/C Ratio (X)	0.00	0.88	0.00	0.47	0.00	0.04	0.00	0.08
Avail Cap (c_a), veh/h	0	429	0	1114	0	441	0	959
Upstream Filter (I)	0.00	0.95	0.00	0.77	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	32.0	0.0	7.8	0.0	25.0	0.0	5.7
Incr Delay (d2), s/veh	0.0	16.4	0.0	1.1	0.0	0.0	0.0	0.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	48.5	0.0	8.9	0.0	25.1	0.0	5.9
1st-Term Q (Q1), veh/ln	0.0	8.0	0.0	6.4	0.0	0.3	0.0	0.7
2nd-Term Q (Q2), veh/ln	0.0	1.7	0.0	0.3	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	9.8	0.0	6.8	0.0	0.3	0.0	0.8
%ile Storage Ratio (RQ%)	0.00	0.01	0.00	0.04	0.00	0.01	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	18.6
HCM 2010 LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	27	912	36	123	0	73	88	21	288	10	4	11
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	29	991	39	134	0	79	96	23	313	11	4	12
Adj No. of Lanes	1	2	0	1	2	1	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	876	2102	83	332	2143	959	403	26	357	119	98	295
Arrive On Green	0.65	0.65	0.65	0.65	0.00	0.65	0.26	0.26	0.26	0.26	0.26	0.26
Sat Flow, veh/h	1219	3219	127	506	3282	1468	1290	102	1382	964	381	1144
Grp Volume(v), veh/h	29	505	525	134	0	79	96	0	336	11	0	16
Grp Sat Flow(s),veh/h/ln	1219	1641	1705	506	1641	1468	1290	0	1483	964	0	1525
Q Serve(g_s), s	0.8	13.9	13.9	16.3	0.0	1.8	5.4	0.0	19.6	1.0	0.0	0.7
Cycle Q Clear(g_c), s	0.8	13.9	13.9	30.1	0.0	1.8	6.1	0.0	19.6	20.6	0.0	0.7
Prop In Lane	1.00		0.07	1.00		1.00	1.00		0.93	1.00		0.75
Lane Grp Cap(c), veh/h	876	1072	1114	332	2143	959	403	0	383	119	0	394
V/C Ratio(X)	0.03	0.47	0.47	0.40	0.00	0.08	0.24	0.00	0.88	0.09	0.00	0.04
Avail Cap(c_a), veh/h	876	1072	1114	332	2143	959	443	0	429	149	0	441
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.77	0.77	0.77	1.00	0.00	1.00	0.95	0.00	0.95	1.00	0.00	1.00
Uniform Delay (d), s/veh	5.5	7.8	7.8	15.4	0.0	5.7	27.3	0.0	32.0	41.9	0.0	25.0
Incr Delay (d2), s/veh	0.1	1.2	1.1	3.6	0.0	0.2	0.3	0.0	16.4	0.3	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	6.5	6.8	2.6	0.0	0.8	2.0	0.0	9.8	0.3	0.0	0.3
LnGrp Delay(d),s/veh	5.6	9.0	8.9	19.0	0.0	5.9	27.6	0.0	48.5	42.2	0.0	25.1
LnGrp LOS	A	A	A	B		A	C		D	D		C
Approach Vol, veh/h		1059			213			432			27	
Approach Delay, s/veh		8.9			14.1			43.8			32.1	
Approach LOS		A			B			D			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Phs Duration (G+Y+Rc), s		27.2		62.8		27.2		62.8
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green Setting (Gmax), s		26.0		56.0		26.0		56.0
Max Q Clear Time (g_c+I1), s		21.6		15.9		22.6		32.1
Green Ext Time (p_c), s		0.8		7.3		0.7		6.6

Intersection Summary		
HCM 2010 Ctrl Delay		18.6
HCM 2010 LOS		B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	93	622	55	102	504	129	68	239	119	69	528	37
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1545	1545	1545	1545	1545	1545	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	101	676	60	111	548	140	74	260	129	75	574	40
Adj No. of Lanes	1	2	1	1	2	1	1	2	0	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	23	23	23	23	23	23	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	123	978	438	325	1382	618	93	493	237	123	693	310
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.08	0.33	0.33	0.22	0.47	0.47	0.06	0.23	0.23	0.04	0.21	0.21
Ln Grp Delay, s/veh	53.1	30.0	13.5	30.0	16.2	14.8	56.0	31.5	31.8	47.2	40.1	29.0
Ln Grp LOS	D	C	B	C	B	B	E	C	C	D	D	C
Approach Vol, veh/h		837			799			463			689	
Approach Delay, s/veh		31.6			17.9			35.6			40.2	
Approach LOS		C			B			D			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	5	6	7	8
Case No	2.0	4.0	3.0	2.0	2.0	3.0	2.0	3.0
Phs Duration (G+Y+Rc), s	7.5	24.6	34.0	23.9	9.1	23.0	11.5	46.4
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	5.0	26.0	30.0	13.0	9.0	22.0	13.0	30.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	4.1	11.9	20.0	7.7	6.0	17.0	8.1	12.9
Green Ext Time (g_e), s	0.0	3.6	2.4	0.6	0.0	2.0	0.1	3.1
Prob of Phs Call (p_c)	0.85	1.00	1.00	0.94	0.84	1.00	0.92	1.00
Prob of Max Out (p_x)	1.00	0.12	0.00	0.73	1.00	0.83	0.48	0.00

Left-Turn Movement Data								
Assigned Mvmt	1			3	5		7	
Mvmt Sat Flow, veh/h	3191			1471	1645		1471	

Through Movement Data								
Assigned Mvmt		2	4			6		8
Mvmt Sat Flow, veh/h		2150	2935			3282		2935

Right-Turn Movement Data								
Assigned Mvmt		12	14			16		18
Mvmt Sat Flow, veh/h		1036	1313			1468		1313

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	5	0	7	0
Lane Assignment	(Prot)			(Prot)	(Prot)		(Prot)	
Lanes in Grp	2	0	0	1	1	0	1	0

Grp Vol (v), veh/h	75	0	0	111	74	0	101	0
Grp Sat Flow (s), veh/h/ln	1596	0	0	1471	1645	0	1471	0
Q Serve Time (g_s), s	2.1	0.0	0.0	5.7	4.0	0.0	6.1	0.0
Cycle Q Clear Time (g_c), s	2.1	0.0	0.0	5.7	4.0	0.0	6.1	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	123	0	0	325	93	0	123	0
V/C Ratio (X)	0.61	0.00	0.00	0.34	0.80	0.00	0.82	0.00
Avail Cap (c_a), veh/h	177	0	0	325	165	0	213	0
Upstream Filter (I)	0.95	0.00	0.00	0.82	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	42.6	0.0	0.0	29.5	41.9	0.0	40.6	0.0
Incr Delay (d2), s/veh	4.6	0.0	0.0	0.5	14.1	0.0	12.6	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	47.2	0.0	0.0	30.0	56.0	0.0	53.1	0.0
1st-Term Q (Q1), veh/ln	0.9	0.0	0.0	2.3	1.8	0.0	2.5	0.0
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.0	0.0	0.4	0.0	0.4	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	1.0	0.0	0.0	2.4	2.2	0.0	2.9	0.0
%ile Storage Ratio (RQ%)	0.14	0.00	0.00	0.17	0.22	0.00	0.23	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	0	6	0	8
Lane Assignment		T	T			T		T
Lanes in Grp	0	1	2	0	0	2	0	2
Grp Vol (v), veh/h	0	197	676	0	0	574	0	548
Grp Sat Flow (s), veh/h/ln	0	1641	1467	0	0	1641	0	1467
Q Serve Time (g_s), s	0.0	9.4	18.0	0.0	0.0	15.0	0.0	10.9
Cycle Q Clear Time (g_c), s	0.0	9.4	18.0	0.0	0.0	15.0	0.0	10.9
Lane Grp Cap (c), veh/h	0	376	978	0	0	693	0	1382
V/C Ratio (X)	0.00	0.52	0.69	0.00	0.00	0.83	0.00	0.40
Avail Cap (c_a), veh/h	0	474	978	0	0	802	0	1382
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	0.95	0.00	0.82
Uniform Delay (d1), s/veh	0.0	30.4	26.0	0.0	0.0	33.9	0.0	15.5
Incr Delay (d2), s/veh	0.0	1.1	4.0	0.0	0.0	6.1	0.0	0.7
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	31.5	30.0	0.0	0.0	40.1	0.0	16.2
1st-Term Q (Q1), veh/ln	0.0	4.3	7.2	0.0	0.0	6.8	0.0	4.4
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.5	0.0	0.0	0.6	0.0	0.1

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	4.4	7.8	0.0	0.0	7.4	0.0	4.5
%ile Storage Ratio (RQ%)	0.00	0.03	0.01	0.00	0.00	0.01	0.00	0.03
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	14	0	0	16	0	18
Lane Assignment		T+R	R			R		R
Lanes in Grp	0	1	1	0	0	1	0	1
Grp Vol (v), veh/h	0	192	60	0	0	40	0	140
Grp Sat Flow (s), veh/h/ln	0	1545	1313	0	0	1468	0	1313
Q Serve Time (g_s), s	0.0	9.9	2.2	0.0	0.0	2.0	0.0	5.7
Cycle Q Clear Time (g_c), s	0.0	9.9	2.2	0.0	0.0	2.0	0.0	5.7
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.67	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	354	438	0	0	310	0	618
V/C Ratio (X)	0.00	0.54	0.14	0.00	0.00	0.13	0.00	0.23
Avail Cap (c_a), veh/h	0	446	438	0	0	359	0	618
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	0.95	0.00	0.82
Uniform Delay (d1), s/veh	0.0	30.5	12.8	0.0	0.0	28.8	0.0	14.1
Incr Delay (d2), s/veh	0.0	1.3	0.7	0.0	0.0	0.2	0.0	0.7
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	31.8	13.5	0.0	0.0	29.0	0.0	14.8
1st-Term Q (Q1), veh/ln	0.0	4.2	0.8	0.0	0.0	0.8	0.0	2.0
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	4.3	0.9	0.0	0.0	0.8	0.0	2.2
%ile Storage Ratio (RQ%)	0.00	0.03	0.29	0.00	0.00	0.11	0.00	0.43
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	30.4
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	93	622	55	102	504	129	68	239	119	69	528	37
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1545	1545	1545	1545	1545	1545	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	101	676	60	111	548	140	74	260	129	75	574	40
Adj No. of Lanes	1	2	1	1	2	1	1	2	0	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	23	23	23	23	23	23	10	10	10	10	10	10
Cap, veh/h	123	978	438	325	1382	618	93	493	237	123	693	310
Arrive On Green	0.08	0.33	0.33	0.22	0.47	0.47	0.06	0.23	0.23	0.04	0.21	0.21
Sat Flow, veh/h	1471	2935	1313	1471	2935	1313	1645	2150	1036	3191	3282	1468
Grp Volume(v), veh/h	101	676	60	111	548	140	74	197	192	75	574	40
Grp Sat Flow(s),veh/h/ln	1471	1467	1313	1471	1467	1313	1645	1641	1545	1596	1641	1468
Q Serve(g_s), s	6.1	18.0	2.2	5.7	10.9	5.7	4.0	9.4	9.9	2.1	15.0	2.0
Cycle Q Clear(g_c), s	6.1	18.0	2.2	5.7	10.9	5.7	4.0	9.4	9.9	2.1	15.0	2.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.67	1.00		1.00
Lane Grp Cap(c), veh/h	123	978	438	325	1382	618	93	376	354	123	693	310
V/C Ratio(X)	0.82	0.69	0.14	0.34	0.40	0.23	0.80	0.52	0.54	0.61	0.83	0.13
Avail Cap(c_a), veh/h	213	978	438	325	1382	618	165	474	446	177	802	359
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.82	0.82	0.82	1.00	1.00	1.00	0.95	0.95	0.95
Uniform Delay (d), s/veh	40.6	26.0	12.8	29.5	15.5	14.1	41.9	30.4	30.5	42.6	33.9	28.8
Incr Delay (d2), s/veh	12.6	4.0	0.7	0.5	0.7	0.7	14.1	1.1	1.3	4.6	6.1	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.9	7.8	0.9	2.4	4.5	2.2	2.2	4.4	4.3	1.0	7.4	0.8
LnGrp Delay(d),s/veh	53.1	30.0	13.5	30.0	16.2	14.8	56.0	31.5	31.8	47.2	40.1	29.0
LnGrp LOS	D	C	B	C	B	B	E	C	C	D	D	C
Approach Vol, veh/h		837			799			463			689	
Approach Delay, s/veh		31.6			17.9			35.6			40.2	
Approach LOS		C			B			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	7.5	24.6	23.9	34.0	9.1	23.0	11.5	46.4
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	5.0	26.0	13.0	30.0	9.0	22.0	13.0	30.0
Max Q Clear Time (g_c+I1), s	4.1	11.9	7.7	20.0	6.0	17.0	8.1	12.9
Green Ext Time (p_c), s	0.0	3.6	0.6	2.4	0.0	2.0	0.1	3.1

Intersection Summary	
HCM 2010 Ctrl Delay	30.4
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	90	776	115	117	486	45	109	372	157	178	599	48
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1545	1545	1900	1545	1545	1545	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	98	843	125	127	528	49	118	404	171	193	651	52
Adj No. of Lanes	2	2	0	2	2	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	23	23	23	23	23	23	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	598	938	139	182	647	289	705	615	192	836	808	252
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.21	0.37	0.37	0.06	0.22	0.22	0.22	0.13	0.13	0.26	0.17	0.17
Ln Grp Delay, s/veh	29.2	38.6	38.5	46.0	35.9	28.7	28.4	38.6	41.1	26.2	43.6	33.7
Ln Grp LOS	C	D	D	D	D	C	C	D	D	C	D	C
Approach Vol, veh/h		1066			704			693			896	
Approach Delay, s/veh		37.7			37.3			37.5			39.3	
Approach LOS		D			D			D			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	6	5	8	7
Case No	3.0	2.0	2.0	4.0	3.0	2.0	3.0	2.0
Phs Duration (G+Y+Rc), s	15.7	27.6	9.7	36.9	19.4	23.9	23.8	22.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	16.0	10.0	8.0	40.0	19.0	7.0	42.0	6.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.0	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	10.5	6.3	5.9	29.9	13.9	4.7	17.4	4.5
Green Ext Time (g_e), s	1.2	0.4	0.1	3.0	1.5	0.3	2.4	0.7
Prob of Phs Call (p_c)	1.00	0.99	0.96	1.00	1.00	0.95	1.00	0.91
Prob of Max Out (p_x)	0.60	1.00	1.00	0.34	0.72	1.00	0.00	1.00

Left-Turn Movement Data								
Assigned Mvmt		1	3			5		7
Mvmt Sat Flow, veh/h		3191	2854			3191		2854

Through Movement Data								
Assigned Mvmt	2			4	6		8	
Mvmt Sat Flow, veh/h	4715			2565	4715		2935	

Right-Turn Movement Data								
Assigned Mvmt	12			14	16		18	
Mvmt Sat Flow, veh/h	1468			380	1468		1313	

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	0	5	0	7
Lane Assignment		(Prot)	(Prot)			(Prot)		(Prot)
Lanes in Grp	0	2	2	0	0	2	0	2

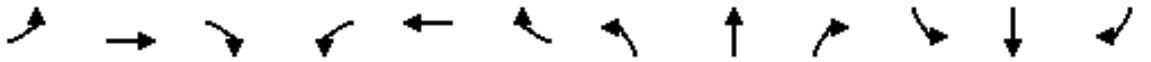
Grp Vol (v), veh/h	0	193	127	0	0	118	0	98
Grp Sat Flow (s), veh/h/ln	0	1596	1427	0	0	1596	0	1427
Q Serve Time (g_s), s	0.0	4.3	3.9	0.0	0.0	2.7	0.0	2.5
Cycle Q Clear Time (g_c), s	0.0	4.3	3.9	0.0	0.0	2.7	0.0	2.5
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	836	182	0	0	705	0	598
V/C Ratio (X)	0.00	0.23	0.70	0.00	0.00	0.17	0.00	0.16
Avail Cap (c_a), veh/h	0	836	254	0	0	705	0	598
Upstream Filter (I)	0.00	0.92	1.00	0.00	0.00	0.25	0.00	0.84
Uniform Delay (d1), s/veh	0.0	26.1	41.3	0.0	0.0	28.4	0.0	29.1
Incr Delay (d2), s/veh	0.0	0.1	4.8	0.0	0.0	0.0	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	26.2	46.0	0.0	0.0	28.4	0.0	29.2
1st-Term Q (Q1), veh/ln	0.0	1.9	1.6	0.0	0.0	1.2	0.0	1.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.9	1.7	0.0	0.0	1.2	0.0	1.0
%ile Storage Ratio (RQ%)	0.00	0.23	0.10	0.00	0.00	0.16	0.00	0.06
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	6	0	8	0
Lane Assignment	T			T	T		T	
Lanes in Grp	3	0	0	1	3	0	2	0
Grp Vol (v), veh/h	404	0	0	482	651	0	528	0
Grp Sat Flow (s), veh/h/ln	1572	0	0	1467	1572	0	1467	0
Q Serve Time (g_s), s	7.3	0.0	0.0	27.9	11.9	0.0	15.4	0.0
Cycle Q Clear Time (g_c), s	7.3	0.0	0.0	27.9	11.9	0.0	15.4	0.0
Lane Grp Cap (c), veh/h	615	0	0	537	808	0	647	0
V/C Ratio (X)	0.66	0.00	0.00	0.90	0.81	0.00	0.82	0.00
Avail Cap (c_a), veh/h	838	0	0	652	995	0	1370	0
Upstream Filter (I)	0.25	0.00	0.00	0.84	0.92	0.00	1.00	0.00
Uniform Delay (d1), s/veh	37.2	0.0	0.0	27.0	35.8	0.0	33.4	0.0
Incr Delay (d2), s/veh	1.4	0.0	0.0	11.7	7.8	0.0	2.6	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	38.6	0.0	0.0	38.6	43.6	0.0	35.9	0.0
1st-Term Q (Q1), veh/ln	3.2	0.0	0.0	11.3	5.2	0.0	6.2	0.0
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.0	1.7	0.6	0.0	0.2	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	3.3	0.0	0.0	13.0	5.8	0.0	6.5	0.0
%ile Storage Ratio (RQ%)	0.01	0.00	0.00	0.07	0.01	0.00	0.04	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	0	14	16	0	18	0
Lane Assignment	R			T+R	R		R	
Lanes in Grp	1	0	0	1	1	0	1	0
Grp Vol (v), veh/h	171	0	0	486	52	0	49	0
Grp Sat Flow (s), veh/h/ln	1468	0	0	1478	1468	0	1313	0
Q Serve Time (g_s), s	8.5	0.0	0.0	27.9	2.7	0.0	2.7	0.0
Cycle Q Clear Time (g_c), s	8.5	0.0	0.0	27.9	2.7	0.0	2.7	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	0.26	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	192	0	0	541	252	0	289	0
V/C Ratio (X)	0.89	0.00	0.00	0.90	0.21	0.00	0.17	0.00
Avail Cap (c_a), veh/h	261	0	0	657	310	0	613	0
Upstream Filter (I)	0.25	0.00	0.00	0.84	0.92	0.00	1.00	0.00
Uniform Delay (d1), s/veh	26.2	0.0	0.0	27.0	32.0	0.0	28.4	0.0
Incr Delay (d2), s/veh	14.9	0.0	0.0	11.6	1.7	0.0	0.3	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	41.1	0.0	0.0	38.5	33.7	0.0	28.7	0.0
1st-Term Q (Q1), veh/ln	3.4	0.0	0.0	11.3	1.1	0.0	1.0	0.0
2nd-Term Q (Q2), veh/ln	0.8	0.0	0.0	1.7	0.1	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	4.2	0.0	0.0	13.1	1.2	0.0	1.0	0.0
%ile Storage Ratio (RQ%)	0.56	0.00	0.00	0.07	0.18	0.00	0.28	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	38.0
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	90	776	115	117	486	45	109	372	157	178	599	48
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1545	1545	1900	1545	1545	1545	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	98	843	125	127	528	49	118	404	171	193	651	52
Adj No. of Lanes	2	2	0	2	2	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	23	23	23	23	23	23	10	10	10	10	10	10
Cap, veh/h	598	938	139	182	647	289	705	615	192	836	808	252
Arrive On Green	0.21	0.37	0.37	0.06	0.22	0.22	0.22	0.13	0.13	0.26	0.17	0.17
Sat Flow, veh/h	2854	2565	380	2854	2935	1313	3191	4715	1468	3191	4715	1468
Grp Volume(v), veh/h	98	482	486	127	528	49	118	404	171	193	651	52
Grp Sat Flow(s),veh/h/ln	1427	1467	1478	1427	1467	1313	1596	1572	1468	1596	1572	1468
Q Serve(g_s), s	2.5	27.9	27.9	3.9	15.4	2.7	2.7	7.3	8.5	4.3	11.9	2.7
Cycle Q Clear(g_c), s	2.5	27.9	27.9	3.9	15.4	2.7	2.7	7.3	8.5	4.3	11.9	2.7
Prop In Lane	1.00		0.26	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	598	537	541	182	647	289	705	615	192	836	808	252
V/C Ratio(X)	0.16	0.90	0.90	0.70	0.82	0.17	0.17	0.66	0.89	0.23	0.81	0.21
Avail Cap(c_a), veh/h	598	652	657	254	1370	613	705	838	261	836	995	310
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.84	0.84	0.84	1.00	1.00	1.00	0.25	0.25	0.25	0.92	0.92	0.92
Uniform Delay (d), s/veh	29.1	27.0	27.0	41.3	33.4	28.4	28.4	37.2	26.2	26.1	35.8	32.0
Incr Delay (d2), s/veh	0.1	11.7	11.6	4.8	2.6	0.3	0.0	1.4	14.9	0.1	7.8	1.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.0	13.0	13.1	1.7	6.5	1.0	1.2	3.3	4.2	1.9	5.8	1.2
LnGrp Delay(d),s/veh	29.2	38.6	38.5	46.0	35.9	28.7	28.4	38.6	41.1	26.2	43.6	33.7
LnGrp LOS	C	D	D	D	D	C	C	D	D	C	D	C
Approach Vol, veh/h		1066			704			693			896	
Approach Delay, s/veh		37.7			37.3			37.5			39.3	
Approach LOS		D			D			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	27.6	15.7	9.7	36.9	23.9	19.4	22.9	23.8
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	10.0	16.0	8.0	40.0	7.0	19.0	6.0	42.0
Max Q Clear Time (g_c+I1), s	6.3	10.5	5.9	29.9	4.7	13.9	4.5	17.4
Green Ext Time (p_c), s	0.4	1.2	0.1	3.0	0.3	1.5	0.7	2.4

Intersection Summary	
HCM 2010 Ctrl Delay	38.0
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	180	542	39	127	564	46	89	19	368	143	20	497
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	196	589	42	138	613	50	97	21	400	155	22	540
Adj No. of Lanes	2	2	1	2	2	1	2	2	2	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	264	699	313	400	839	375	173	625	492	487	948	424
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.08	0.21	0.21	0.13	0.26	0.26	0.05	0.19	0.19	0.15	0.29	0.29
Ln Grp Delay, s/veh	47.6	39.6	11.9	36.4	35.2	6.7	44.4	29.7	38.2	34.3	22.9	172.3
Ln Grp LOS	D	D	B	D	D	A	D	C	D	C	C	F
Approach Vol, veh/h		827			801			518			717	
Approach Delay, s/veh		40.1			33.7			39.0			137.9	
Approach LOS		D			C			D			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	5	6	7	8
Case No	3.0	2.0	3.0	2.0	2.0	3.0	2.0	3.0
Phs Duration (G+Y+Rc), s	21.1	17.7	23.2	15.3	8.9	30.0	11.5	27.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	33.0	9.0	25.0	7.0	16.0	26.0	9.0	23.0
Max Allow Headway (MAH), s	4.3	4.3	4.0	4.1	4.1	4.3	4.1	4.1
Max Q Clear (g_c+I1), s	15.3	5.9	17.5	5.6	4.7	28.0	7.4	17.4
Green Ext Time (g_e), s	1.8	1.1	1.7	0.6	0.2	0.0	0.1	1.8
Prob of Phs Call (p_c)	1.00	0.98	1.00	0.97	1.00	1.00	0.99	1.00
Prob of Max Out (p_x)	0.00	1.00	0.29	1.00	0.00	1.00	1.00	0.00

Left-Turn Movement Data								
Assigned Mvmt		1		3	5		7	
Mvmt Sat Flow, veh/h		3191		3191	3191		3191	

Through Movement Data								
Assigned Mvmt	2		4			6		8
Mvmt Sat Flow, veh/h	3282		3282			3282		3282

Right-Turn Movement Data								
Assigned Mvmt	12		14			16		18
Mvmt Sat Flow, veh/h	2584		1468			1468		1468

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	5	0	7	0
Lane Assignment		(Prot)		(Prot)	(Prot)		(Prot)	
Lanes in Grp	0	2	0	2	2	0	2	0

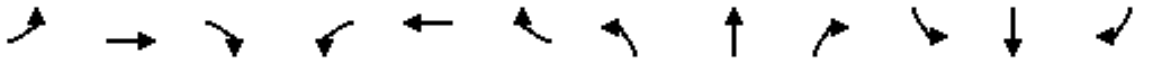
Grp Vol (v), veh/h	0	155	0	138	97	0	196	0
Grp Sat Flow (s), veh/h/ln	0	1596	0	1596	1596	0	1596	0
Q Serve Time (g_s), s	0.0	3.9	0.0	3.6	2.7	0.0	5.4	0.0
Cycle Q Clear Time (g_c), s	0.0	3.9	0.0	3.6	2.7	0.0	5.4	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	487	0	400	173	0	264	0
V/C Ratio (X)	0.00	0.32	0.00	0.34	0.56	0.00	0.74	0.00
Avail Cap (c_a), veh/h	0	487	0	400	567	0	319	0
Upstream Filter (I)	0.00	1.00	0.00	0.81	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	34.0	0.0	36.0	41.5	0.0	40.3	0.0
Incr Delay (d2), s/veh	0.0	0.4	0.0	0.4	2.8	0.0	7.3	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	34.3	0.0	36.4	44.4	0.0	47.6	0.0
1st-Term Q (Q1), veh/ln	0.0	1.7	0.0	1.6	1.2	0.0	2.4	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.1	0.0	0.3	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	1.7	0.0	1.6	1.2	0.0	2.6	0.0
%ile Storage Ratio (RQ%)	0.00	0.30	0.00	0.22	0.18	0.00	0.33	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	0	6	0	8
Lane Assignment	T		T			T		T
Lanes in Grp	2	0	2	0	0	2	0	2
Grp Vol (v), veh/h	21	0	589	0	0	22	0	613
Grp Sat Flow (s), veh/h/ln	1641	0	1641	0	0	1641	0	1641
Q Serve Time (g_s), s	0.5	0.0	15.5	0.0	0.0	0.4	0.0	15.4
Cycle Q Clear Time (g_c), s	0.5	0.0	15.5	0.0	0.0	0.4	0.0	15.4
Lane Grp Cap (c), veh/h	625	0	699	0	0	948	0	839
V/C Ratio (X)	0.03	0.00	0.84	0.00	0.00	0.02	0.00	0.73
Avail Cap (c_a), veh/h	1203	0	912	0	0	948	0	839
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	0.81
Uniform Delay (d1), s/veh	29.7	0.0	34.0	0.0	0.0	22.9	0.0	30.7
Incr Delay (d2), s/veh	0.0	0.0	5.7	0.0	0.0	0.0	0.0	4.6
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	29.7	0.0	39.6	0.0	0.0	22.9	0.0	35.2
1st-Term Q (Q1), veh/ln	0.2	0.0	7.0	0.0	0.0	0.2	0.0	7.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.5

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.2	0.0	7.6	0.0	0.0	0.2	0.0	7.5
%ile Storage Ratio (RQ%)	0.00	0.00	0.06	0.00	0.00	0.01	0.00	0.05
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	0	16	0	18
Lane Assignment	R		R			R		R
Lanes in Grp	2	0	1	0	0	1	0	1
Grp Vol (v), veh/h	400	0	42	0	0	540	0	50
Grp Sat Flow (s), veh/h/ln	1292	0	1468	0	0	1468	0	1468
Q Serve Time (g_s), s	13.3	0.0	1.3	0.0	0.0	26.0	0.0	1.1
Cycle Q Clear Time (g_c), s	13.3	0.0	1.3	0.0	0.0	26.0	0.0	1.1
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	492	0	313	0	0	424	0	375
V/C Ratio (X)	0.81	0.00	0.13	0.00	0.00	1.27	0.00	0.13
Avail Cap (c_a), veh/h	947	0	408	0	0	424	0	375
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	0.81
Uniform Delay (d1), s/veh	34.9	0.0	11.7	0.0	0.0	32.0	0.0	6.1
Incr Delay (d2), s/veh	3.3	0.0	0.2	0.0	0.0	140.3	0.0	0.6
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	38.2	0.0	11.9	0.0	0.0	172.3	0.0	6.7
1st-Term Q (Q1), veh/ln	4.8	0.0	0.5	0.0	0.0	10.5	0.0	0.5
2nd-Term Q (Q2), veh/ln	0.2	0.0	0.0	0.0	0.0	16.5	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	5.0	0.0	0.6	0.0	0.0	27.0	0.0	0.5
%ile Storage Ratio (RQ%)	0.37	0.00	0.09	0.00	0.00	6.88	0.00	0.07
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	29.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	62.6
HCM 2010 LOS	E



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	180	542	39	127	564	46	89	19	368	143	20	497
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	196	589	42	138	613	50	97	21	400	155	22	540
Adj No. of Lanes	2	2	1	2	2	1	2	2	2	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	264	699	313	400	839	375	173	625	492	487	948	424
Arrive On Green	0.08	0.21	0.21	0.13	0.26	0.26	0.05	0.19	0.19	0.15	0.29	0.29
Sat Flow, veh/h	3191	3282	1468	3191	3282	1468	3191	3282	2584	3191	3282	1468
Grp Volume(v), veh/h	196	589	42	138	613	50	97	21	400	155	22	540
Grp Sat Flow(s),veh/h/ln	1596	1641	1468	1596	1641	1468	1596	1641	1292	1596	1641	1468
Q Serve(g_s), s	5.4	15.5	1.3	3.6	15.4	1.1	2.7	0.5	13.3	3.9	0.4	26.0
Cycle Q Clear(g_c), s	5.4	15.5	1.3	3.6	15.4	1.1	2.7	0.5	13.3	3.9	0.4	26.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	264	699	313	400	839	375	173	625	492	487	948	424
V/C Ratio(X)	0.74	0.84	0.13	0.34	0.73	0.13	0.56	0.03	0.81	0.32	0.02	1.27
Avail Cap(c_a), veh/h	319	912	408	400	839	375	567	1203	947	487	948	424
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.81	0.81	0.81	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	40.3	34.0	11.7	36.0	30.7	6.1	41.5	29.7	34.9	34.0	22.9	32.0
Incr Delay (d2), s/veh	7.3	5.7	0.2	0.4	4.6	0.6	2.8	0.0	3.3	0.4	0.0	140.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.6	7.6	0.6	1.6	7.5	0.5	1.2	0.2	5.0	1.7	0.2	27.0
LnGrp Delay(d),s/veh	47.6	39.6	11.9	36.4	35.2	6.7	44.4	29.7	38.2	34.3	22.9	172.3
LnGrp LOS	D	D	B	D	D	A	D	C	D	C	C	F
Approach Vol, veh/h		827			801			518			717	
Approach Delay, s/veh		40.1			33.7			39.0			137.9	
Approach LOS		D			C			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	17.7	21.1	15.3	23.2	8.9	30.0	11.5	27.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	9.0	33.0	7.0	25.0	16.0	26.0	9.0	23.0
Max Q Clear Time (g_c+I1), s	5.9	15.3	5.6	17.5	4.7	28.0	7.4	17.4
Green Ext Time (p_c), s	1.1	1.8	0.6	1.7	0.2	0.0	0.1	1.8

Intersection Summary	
HCM 2010 Ctrl Delay	62.6
HCM 2010 LOS	E

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	158	267	72	104	518	63	81	813	114	85	467	55
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	172	290	78	113	563	68	88	884	124	92	508	60
Adj No. of Lanes	2	3	1	2	3	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	249	453	141	444	741	231	1396	1112	346	1121	705	220
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.08	0.10	0.10	0.14	0.16	0.16	0.44	0.24	0.24	0.35	0.15	0.15
Ln Grp Delay, s/veh	43.3	40.5	41.7	34.9	38.1	34.2	14.7	38.2	31.6	19.5	42.8	37.0
Ln Grp LOS	D	D	D	C	D	C	B	D	C	B	D	D
Approach Vol, veh/h		540			744			1096			660	
Approach Delay, s/veh		41.6			37.2			35.6			39.0	
Approach LOS		D			D			D			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	6	5	8	7
Case No	3.0	2.0	3.0	2.0	3.0	2.0	3.0	2.0
Phs Duration (G+Y+Rc), s	25.2	35.6	12.6	16.5	17.5	43.4	18.2	11.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	28.0	11.0	23.0	12.0	28.0	11.0	21.0	14.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	17.9	3.7	7.3	4.8	11.2	3.4	12.3	6.7
Green Ext Time (g_e), s	3.4	0.2	1.3	0.6	2.2	0.4	1.9	0.4
Prob of Phs Call (p_c)	1.00	0.90	1.00	0.94	1.00	0.89	1.00	0.99
Prob of Max Out (p_x)	0.26	0.08	0.00	0.15	0.01	0.06	0.19	0.13

Left-Turn Movement Data								
Assigned Mvmt		1		3		5		7
Mvmt Sat Flow, veh/h		3191		3191		3191		3191

Through Movement Data								
Assigned Mvmt	2		4		6		8	
Mvmt Sat Flow, veh/h	4715		4715		4715		4715	

Right-Turn Movement Data								
Assigned Mvmt	12		14		16		18	
Mvmt Sat Flow, veh/h	1468		1468		1468		1468	

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	0	5	0	7
Lane Assignment		(Prot)		(Prot)		(Prot)		(Prot)
Lanes in Grp	0	2	0	2	0	2	0	2

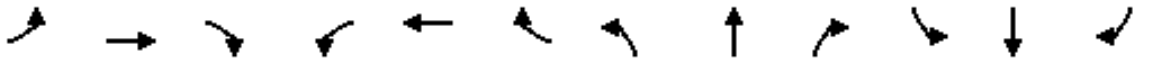
Grp Vol (v), veh/h	0	92	0	113	0	88	0	172
Grp Sat Flow (s), veh/h/ln	0	1596	0	1596	0	1596	0	1596
Q Serve Time (g_s), s	0.0	1.7	0.0	2.8	0.0	1.4	0.0	4.7
Cycle Q Clear Time (g_c), s	0.0	1.7	0.0	2.8	0.0	1.4	0.0	4.7
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	1121	0	444	0	1396	0	249
V/C Ratio (X)	0.00	0.08	0.00	0.25	0.00	0.06	0.00	0.69
Avail Cap (c_a), veh/h	0	1121	0	444	0	1396	0	496
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	0.85
Uniform Delay (d1), s/veh	0.0	19.5	0.0	34.6	0.0	14.6	0.0	40.4
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.3	0.0	0.0	0.0	2.9
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	19.5	0.0	34.9	0.0	14.7	0.0	43.3
1st-Term Q (Q1), veh/ln	0.0	0.8	0.0	1.3	0.0	0.6	0.0	2.1
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.8	0.0	1.3	0.0	0.6	0.0	2.2
%ile Storage Ratio (RQ%)	0.00	0.12	0.00	0.21	0.00	0.09	0.00	0.32
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	6	0	8	0
Lane Assignment	T		T		T		T	
Lanes in Grp	3	0	3	0	3	0	3	0
Grp Vol (v), veh/h	884	0	290	0	508	0	563	0
Grp Sat Flow (s), veh/h/ln	1572	0	1572	0	1572	0	1572	0
Q Serve Time (g_s), s	15.9	0.0	5.3	0.0	9.2	0.0	10.3	0.0
Cycle Q Clear Time (g_c), s	15.9	0.0	5.3	0.0	9.2	0.0	10.3	0.0
Lane Grp Cap (c), veh/h	1112	0	453	0	705	0	741	0
V/C Ratio (X)	0.79	0.00	0.64	0.00	0.72	0.00	0.76	0.00
Avail Cap (c_a), veh/h	1467	0	1205	0	1467	0	1100	0
Upstream Filter (I)	1.00	0.00	0.85	0.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	32.3	0.0	39.2	0.0	36.5	0.0	36.3	0.0
Incr Delay (d2), s/veh	5.9	0.0	1.3	0.0	6.3	0.0	1.8	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	38.2	0.0	40.5	0.0	42.8	0.0	38.1	0.0
1st-Term Q (Q1), veh/ln	6.9	0.0	2.3	0.0	4.0	0.0	4.5	0.0
2nd-Term Q (Q2), veh/ln	0.6	0.0	0.1	0.0	0.4	0.0	0.1	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	7.5	0.0	2.4	0.0	4.4	0.0	4.6	0.0
%ile Storage Ratio (RQ%)	0.04	0.00	0.02	0.00	0.04	0.00	0.09	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	16	0	18	0
Lane Assignment	R		R		R		R	
Lanes in Grp	1	0	1	0	1	0	1	0
Grp Vol (v), veh/h	124	0	78	0	60	0	68	0
Grp Sat Flow (s), veh/h/ln	1468	0	1468	0	1468	0	1468	0
Q Serve Time (g_s), s	6.3	0.0	4.6	0.0	3.3	0.0	3.7	0.0
Cycle Q Clear Time (g_c), s	6.3	0.0	4.6	0.0	3.3	0.0	3.7	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	346	0	141	0	220	0	231	0
V/C Ratio (X)	0.36	0.00	0.55	0.00	0.27	0.00	0.29	0.00
Avail Cap (c_a), veh/h	457	0	375	0	457	0	343	0
Upstream Filter (I)	1.00	0.00	0.85	0.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	28.7	0.0	38.8	0.0	33.9	0.0	33.5	0.0
Incr Delay (d2), s/veh	2.9	0.0	2.9	0.0	3.1	0.0	0.7	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	31.6	0.0	41.7	0.0	37.0	0.0	34.2	0.0
1st-Term Q (Q1), veh/ln	2.6	0.0	1.8	0.0	1.3	0.0	1.5	0.0
2nd-Term Q (Q2), veh/ln	0.3	0.0	0.1	0.0	0.2	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	2.9	0.0	2.0	0.0	1.5	0.0	1.5	0.0
%ile Storage Ratio (RQ%)	0.41	0.00	0.28	0.00	0.22	0.00	0.28	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	37.8
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	158	267	72	104	518	63	81	813	114	85	467	55
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	172	290	78	113	563	68	88	884	124	92	508	60
Adj No. of Lanes	2	3	1	2	3	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	249	453	141	444	741	231	1396	1112	346	1121	705	220
Arrive On Green	0.08	0.10	0.10	0.14	0.16	0.16	0.44	0.24	0.24	0.35	0.15	0.15
Sat Flow, veh/h	3191	4715	1468	3191	4715	1468	3191	4715	1468	3191	4715	1468
Grp Volume(v), veh/h	172	290	78	113	563	68	88	884	124	92	508	60
Grp Sat Flow(s),veh/h/ln	1596	1572	1468	1596	1572	1468	1596	1572	1468	1596	1572	1468
Q Serve(g_s), s	4.7	5.3	4.6	2.8	10.3	3.7	1.4	15.9	6.3	1.7	9.2	3.3
Cycle Q Clear(g_c), s	4.7	5.3	4.6	2.8	10.3	3.7	1.4	15.9	6.3	1.7	9.2	3.3
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	249	453	141	444	741	231	1396	1112	346	1121	705	220
V/C Ratio(X)	0.69	0.64	0.55	0.25	0.76	0.29	0.06	0.79	0.36	0.08	0.72	0.27
Avail Cap(c_a), veh/h	496	1205	375	444	1100	343	1396	1467	457	1121	1467	457
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.85	0.85	0.85	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	40.4	39.2	38.8	34.6	36.3	33.5	14.6	32.3	28.7	19.5	36.5	33.9
Incr Delay (d2), s/veh	2.9	1.3	2.9	0.3	1.8	0.7	0.0	5.9	2.9	0.0	6.3	3.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.2	2.4	2.0	1.3	4.6	1.5	0.6	7.5	2.9	0.8	4.4	1.5
LnGrp Delay(d),s/veh	43.3	40.5	41.7	34.9	38.1	34.2	14.7	38.2	31.6	19.5	42.8	37.0
LnGrp LOS	D	D	D	C	D	C	B	D	C	B	D	D
Approach Vol, veh/h		540			744			1096			660	
Approach Delay, s/veh		41.6			37.2			35.6			39.0	
Approach LOS		D			D			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	35.6	25.2	16.5	12.6	43.4	17.5	11.0	18.2
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	31.0	28.0	12.0	23.0	11.0	28.0	14.0	21.0
Max Q Clear Time (g_c+I1), s	13.7	17.9	4.8	7.3	3.4	11.2	6.7	12.3
Green Ext Time (p_c), s	0.2	3.4	0.6	1.3	0.4	2.2	0.4	1.9

Intersection Summary	
HCM 2010 Ctrl Delay	37.8
HCM 2010 LOS	D

Intersection	
Int Delay, s/veh	0.1

Movement	NBL	NBT	NBR	SBL	SBT	SBR	SEL	SET	SER	NWL	NWT	NWR
Vol, veh/h	8	131	0	0	632	149	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	0
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	9	142	0	0	687	162	0	0	0	0	0	0

Major/Minor	Major1			Major2			Minor1		
Conflicting Flow All	849	0	0	142	0	0	928	1009	142
Stage 1	-	-	-	-	-	-	160	160	-
Stage 2	-	-	-	-	-	-	768	849	-
Critical Hdwy	4.2	-	-	4.2	-	-	6.5	6.6	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	5.5	5.6	-
Critical Hdwy Stg 2	-	-	-	-	-	-	5.5	5.6	-
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.59	4.09	3.39
Pot Cap-1 Maneuver	756	-	-	1393	-	-	288	233	885
Stage 1	-	-	-	-	-	-	850	751	-
Stage 2	-	-	-	-	-	-	444	366	-
Platoon blocked, %		-	-		-	-			
Mov Cap-1 Maneuver	756	-	-	1393	-	-	284	0	885
Mov Cap-2 Maneuver	-	-	-	-	-	-	284	0	-
Stage 1	-	-	-	-	-	-	839	0	-
Stage 2	-	-	-	-	-	-	444	0	-

Approach	NB	SB	NW
HCM Control Delay, s	0.6	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBL	NBT	NBR	NWLn1	NWLn2	SBL	SBT	SBR
Capacity (veh/h)	756	-	-	-	-	1393	-	-
HCM Lane V/C Ratio	0.012	-	-	-	-	-	-	-
HCM Control Delay (s)	9.8	0	-	0	0	0	-	-
HCM Lane LOS	A	A	-	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	-	-	-	0	-	-

Intersection	
Int Delay, s/veh	1.1

Movement	WBL	WBR	NBL	NBT	NBR	SBL	SBT	SBR	SEL	SER
Vol, veh/h	0	0	0	364	0	172	902	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	-	-	-	None	-	-	None	-	None
Storage Length	-	-	-	-	-	-	-	-	0	0
Veh in Median Storage, #	0	-	-	0	-	-	0	-	0	-
Grade, %	0	-	-	0	-	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	19	19	28	28	28	28	28	28	19	19
Mvmt Flow	0	0	0	396	0	187	980	0	0	0

Major/Minor	Minor1		Major1			Major2			Minor2	
Conflicting Flow All	1750	396	980	0	0	396	0	0	1750	980
Stage 1	396	-	-	-	-	-	-	-	1354	-
Stage 2	1354	-	-	-	-	-	-	-	396	-
Critical Hdwy	7.29	6.39	4.38	-	-	4.38	-	-	7.29	6.39
Critical Hdwy Stg 1	6.29	-	-	-	-	-	-	-	6.29	-
Critical Hdwy Stg 2	6.29	-	-	-	-	-	-	-	6.29	-
Follow-up Hdwy	3.671	3.471	2.452	-	-	2.452	-	-	3.671	3.471
Pot Cap-1 Maneuver	61	618	611	-	-	1035	-	-	61	282
Stage 1	597	-	-	-	-	-	-	-	170	-
Stage 2	170	-	-	-	-	-	-	-	597	-
Platoon blocked, %				-	-		-	-		
Mov Cap-1 Maneuver	42	618	611	-	-	1035	-	-	42	282
Mov Cap-2 Maneuver	42	-	-	-	-	-	-	-	42	-
Stage 1	597	-	-	-	-	-	-	-	170	-
Stage 2	103	-	-	-	-	-	-	-	597	-

Approach	WB	NB	SB	SE
HCM Control Delay, s	0	0	1.5	0
HCM LOS	A			A

Minor Lane/Major Mvmt	NBL	NBT	NBR	WBLn1	SELn1	SELn2	SBL	SBT	SBR
Capacity (veh/h)	611	-	-	-	-	-	1035	-	-
HCM Lane V/C Ratio	-	-	-	-	-	-	0.181	-	-
HCM Control Delay (s)	0	-	-	0	0	0	9.2	0	-
HCM Lane LOS	A	-	-	A	A	A	A	A	-
HCM 95th %tile Q(veh)	0	-	-	-	-	-	0.7	-	-

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	14	57	15	27	164	55	5	55	2	75	130	72
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	15	62	16	29	178	60	5	60	2	82	141	78
Adj No. of Lanes	2	2	0	1	2	1	2	2	1	2	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	44	195	49	38	275	123	17	146	65	2170	1242	1056
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.01	0.07	0.07	0.02	0.08	0.08	0.01	0.04	0.04	0.68	0.72	0.72
Ln Grp Delay, s/veh	48.4	40.9	41.1	62.4	41.6	41.3	54.3	50.2	33.0	4.7	4.0	1.6
Ln Grp LOS	D	D	D	E	D	D	D	D	C	A	A	A
Approach Vol, veh/h		93			267			67			301	
Approach Delay, s/veh		42.2			43.8			50.0			3.6	
Approach LOS		D			D			D			A	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	5	6	8	7
Case No	3.0	2.0	2.0	4.0	2.0	3.0	3.0	2.0
Phs Duration (G+Y+Rc), s	8.0	65.2	6.1	10.7	4.5	68.7	11.5	5.3
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	23.0	13.0	14.0	24.0	12.0	24.0	26.0	12.0
Max Allow Headway (MAH), s	4.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	3.6	2.8	3.6	4.1	2.1	4.2	6.7	2.4
Green Ext Time (g_e), s	0.1	0.8	0.0	0.2	0.0	1.0	0.8	0.1
Prob of Phs Call (p_c)	1.00	0.87	0.52	1.00	0.12	1.00	1.00	0.31
Prob of Max Out (p_x)	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00

Left-Turn Movement Data								
Assigned Mvmt		1	3		5			7
Mvmt Sat Flow, veh/h		3191	1645		3191			3191

Through Movement Data								
Assigned Mvmt	2			4		6	8	
Mvmt Sat Flow, veh/h	3282			2605		1727	3282	

Right-Turn Movement Data								
Assigned Mvmt	12			14		16	18	
Mvmt Sat Flow, veh/h	1468			649		1468	1468	

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	5	0	0	7
Lane Assignment		(Prot)	(Prot)		(Prot)			(Prot)
Lanes in Grp	0	2	1	0	2	0	0	2

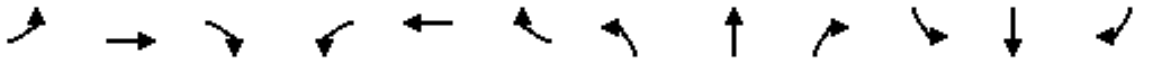
Grp Vol (v), veh/h	0	82	29	0	5	0	0	15
Grp Sat Flow (s), veh/h/ln	0	1596	1645	0	1596	0	0	1596
Q Serve Time (g_s), s	0.0	0.8	1.6	0.0	0.1	0.0	0.0	0.4
Cycle Q Clear Time (g_c), s	0.0	0.8	1.6	0.0	0.1	0.0	0.0	0.4
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	2170	38	0	17	0	0	44
V/C Ratio (X)	0.00	0.04	0.77	0.00	0.30	0.00	0.00	0.34
Avail Cap (c_a), veh/h	0	2170	256	0	426	0	0	426
Upstream Filter (I)	0.00	0.99	0.64	0.00	1.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	4.7	43.7	0.0	44.6	0.0	0.0	44.0
Incr Delay (d2), s/veh	0.0	0.0	18.7	0.0	9.7	0.0	0.0	4.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	4.7	62.4	0.0	54.3	0.0	0.0	48.4
1st-Term Q (Q1), veh/ln	0.0	0.3	0.7	0.0	0.1	0.0	0.0	0.2
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.3	0.9	0.0	0.1	0.0	0.0	0.2
%ile Storage Ratio (RQ%)	0.00	0.05	0.12	0.00	0.01	0.00	0.00	0.04
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	0	6	8	0
Lane Assignment	T			T		T	T	
Lanes in Grp	2	0	0	1	0	1	2	0
Grp Vol (v), veh/h	60	0	0	38	0	141	178	0
Grp Sat Flow (s), veh/h/ln	1641	0	0	1641	0	1727	1641	0
Q Serve Time (g_s), s	1.6	0.0	0.0	2.0	0.0	2.2	4.7	0.0
Cycle Q Clear Time (g_c), s	1.6	0.0	0.0	2.0	0.0	2.2	4.7	0.0
Lane Grp Cap (c), veh/h	146	0	0	123	0	1242	275	0
V/C Ratio (X)	0.41	0.00	0.00	0.31	0.00	0.11	0.65	0.00
Avail Cap (c_a), veh/h	839	0	0	438	0	1242	948	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	0.99	0.64	0.00
Uniform Delay (d1), s/veh	41.9	0.0	0.0	39.4	0.0	3.9	39.9	0.0
Incr Delay (d2), s/veh	8.4	0.0	0.0	1.4	0.0	0.2	1.6	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	50.2	0.0	0.0	40.9	0.0	4.0	41.6	0.0
1st-Term Q (Q1), veh/ln	0.7	0.0	0.0	0.9	0.0	1.1	2.2	0.0
2nd-Term Q (Q2), veh/ln	0.2	0.0	0.0	0.0	0.0	0.1	0.1	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.9	0.0	0.0	1.0	0.0	1.1	2.2	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	0	14	0	16	18	0
Lane Assignment	R			T+R		R	R	
Lanes in Grp	1	0	0	1	0	1	1	0
Grp Vol (v), veh/h	2	0	0	40	0	78	60	0
Grp Sat Flow (s), veh/h/ln	1468	0	0	1613	0	1468	1468	0
Q Serve Time (g_s), s	0.1	0.0	0.0	2.1	0.0	0.9	3.5	0.0
Cycle Q Clear Time (g_c), s	0.1	0.0	0.0	2.1	0.0	0.9	3.5	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	0.40	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	65	0	0	121	0	1056	123	0
V/C Ratio (X)	0.03	0.00	0.00	0.33	0.00	0.07	0.49	0.00
Avail Cap (c_a), veh/h	375	0	0	430	0	1056	424	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	0.99	0.64	0.00
Uniform Delay (d1), s/veh	32.1	0.0	0.0	39.5	0.0	1.5	39.4	0.0
Incr Delay (d2), s/veh	0.9	0.0	0.0	1.6	0.0	0.1	1.9	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	33.0	0.0	0.0	41.1	0.0	1.6	41.3	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.9	0.0	0.3	1.4	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.1	0.0	0.0	1.0	0.0	0.4	1.5	0.0
%ile Storage Ratio (RQ%)	0.01	0.00	0.00	0.00	0.00	0.06	0.19	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	27.5
HCM 2010 LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	14	57	15	27	164	55	5	55	2	75	130	72
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	15	62	16	29	178	60	5	60	2	82	141	78
Adj No. of Lanes	2	2	0	1	2	1	2	2	1	2	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	44	195	49	38	275	123	17	146	65	2170	1242	1056
Arrive On Green	0.01	0.07	0.07	0.02	0.08	0.08	0.01	0.04	0.04	0.68	0.72	0.72
Sat Flow, veh/h	3191	2605	649	1645	3282	1468	3191	3282	1468	3191	1727	1468
Grp Volume(v), veh/h	15	38	40	29	178	60	5	60	2	82	141	78
Grp Sat Flow(s),veh/h/ln	1596	1641	1613	1645	1641	1468	1596	1641	1468	1596	1727	1468
Q Serve(g_s), s	0.4	2.0	2.1	1.6	4.7	3.5	0.1	1.6	0.1	0.8	2.2	0.9
Cycle Q Clear(g_c), s	0.4	2.0	2.1	1.6	4.7	3.5	0.1	1.6	0.1	0.8	2.2	0.9
Prop In Lane	1.00		0.40	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	44	123	121	38	275	123	17	146	65	2170	1242	1056
V/C Ratio(X)	0.34	0.31	0.33	0.77	0.65	0.49	0.30	0.41	0.03	0.04	0.11	0.07
Avail Cap(c_a), veh/h	426	438	430	256	948	424	426	839	375	2170	1242	1056
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.64	0.64	0.64	1.00	1.00	1.00	0.99	0.99	0.99
Uniform Delay (d), s/veh	44.0	39.4	39.5	43.7	39.9	39.4	44.6	41.9	32.1	4.7	3.9	1.5
Incr Delay (d2), s/veh	4.4	1.4	1.6	18.7	1.6	1.9	9.7	8.4	0.9	0.0	0.2	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	1.0	1.0	0.9	2.2	1.5	0.1	0.9	0.1	0.3	1.1	0.4
LnGrp Delay(d),s/veh	48.4	40.9	41.1	62.4	41.6	41.3	54.3	50.2	33.0	4.7	4.0	1.6
LnGrp LOS	D	D	D	E	D	D	D	D	C	A	A	A
Approach Vol, veh/h		93			267			67			301	
Approach Delay, s/veh		42.2			43.8			50.0			3.6	
Approach LOS		D			D			D			A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	65.2	8.0	6.1	10.7	4.5	68.7	5.3	11.5
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	61.3	23.0	14.0	24.0	12.0	24.0	12.0	26.0
Max Q Clear Time (g_c+I1), s	2.8	3.6	3.6	4.1	2.1	4.2	2.4	6.7
Green Ext Time (p_c), s	0.8	0.1	0.0	0.2	0.0	1.0	0.1	0.8

Intersection Summary	
HCM 2010 Ctrl Delay	27.5
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	70	262	110	231	331	58	34	261	92	49	472	14
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	76	285	120	251	360	63	37	284	100	53	513	15
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	253	305	128	274	396	69	107	430	151	65	545	16
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.15	0.26	0.26	0.17	0.28	0.28	0.07	0.35	0.35	0.04	0.33	0.33
Ln Grp Delay, s/veh	34.4	0.0	59.4	64.9	0.0	44.0	42.1	0.0	30.5	72.5	0.0	55.4
Ln Grp LOS	C		E	E		D	D		C	E		E
Approach Vol, veh/h		481			674			421			581	
Approach Delay, s/veh		55.4			51.8			31.5			57.0	
Approach LOS		E			D			C			E	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	6	5	8	7
Case No	2.0	4.0	2.0	4.0	4.0	2.0	4.0	2.0
Phs Duration (G+Y+Rc), s	7.6	35.7	19.0	27.8	33.4	9.9	28.9	17.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	5.0	30.0	15.0	24.0	31.0	4.0	32.0	7.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.0	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	4.9	19.7	15.5	23.7	28.9	3.9	23.9	5.7
Green Ext Time (g_e), s	0.0	1.2	0.0	0.1	0.5	0.0	1.0	0.3
Prob of Phs Call (p_c)	0.73	1.00	1.00	1.00	1.00	0.60	1.00	0.85
Prob of Max Out (p_x)	1.00	0.06	1.00	1.00	1.00	1.00	0.17	1.00

Left-Turn Movement Data								
Assigned Mvmt	1		3			5		7
Mvmt Sat Flow, veh/h	1645		1645			1645		1645

Through Movement Data								
Assigned Mvmt		2		4	6		8	
Mvmt Sat Flow, veh/h		1221		1155	1670		1432	

Right-Turn Movement Data								
Assigned Mvmt		12		14	16		18	
Mvmt Sat Flow, veh/h		430		486	49		251	

Left Lane Group Data								
Assigned Mvmt	1	0	3	0	0	5	0	7
Lane Assignment	(Prot)		(Prot)			(Prot)		(Prot)
Lanes in Grp	1	0	1	0	0	1	0	1

Grp Vol (v), veh/h	53	0	251	0	0	37	0	76
Grp Sat Flow (s), veh/h/ln	1645	0	1645	0	0	1645	0	1645
Q Serve Time (g_s), s	2.9	0.0	13.5	0.0	0.0	1.9	0.0	3.7
Cycle Q Clear Time (g_c), s	2.9	0.0	13.5	0.0	0.0	1.9	0.0	3.7
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	65	0	274	0	0	107	0	253
V/C Ratio (X)	0.81	0.00	0.92	0.00	0.00	0.35	0.00	0.30
Avail Cap (c_a), veh/h	91	0	274	0	0	107	0	253
Upstream Filter (I)	1.00	0.00	0.79	0.00	0.00	1.00	0.00	0.99
Uniform Delay (d1), s/veh	42.9	0.0	36.9	0.0	0.0	40.2	0.0	33.8
Incr Delay (d2), s/veh	29.7	0.0	28.0	0.0	0.0	1.9	0.0	0.6
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	72.5	0.0	64.9	0.0	0.0	42.1	0.0	34.4
1st-Term Q (Q1), veh/ln	1.3	0.0	6.1	0.0	0.0	0.9	0.0	1.7
2nd-Term Q (Q2), veh/ln	0.5	0.0	2.1	0.0	0.0	0.1	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	1.8	0.0	8.3	0.0	0.0	0.9	0.0	1.7
%ile Storage Ratio (RQ%)	0.37	0.00	1.63	0.00	0.00	0.18	0.00	0.34
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	6	0	8	0
Lane Assignment								
Lanes in Grp	0	0	0	0	0	0	0	0
Grp Vol (v), veh/h	0	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	16	0	18	0
Lane Assignment		T+R		T+R	T+R		T+R	
Lanes in Grp	0	1	0	1	1	0	1	0
Grp Vol (v), veh/h	0	384	0	405	528	0	423	0
Grp Sat Flow (s), veh/h/ln	0	1651	0	1641	1719	0	1683	0
Q Serve Time (g_s), s	0.0	17.7	0.0	21.7	26.9	0.0	21.9	0.0
Cycle Q Clear Time (g_c), s	0.0	17.7	0.0	21.7	26.9	0.0	21.9	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.26	0.00	0.30	0.03	0.00	0.15	0.00
Lane Grp Cap (c), veh/h	0	581	0	433	561	0	465	0
V/C Ratio (X)	0.00	0.66	0.00	0.93	0.94	0.00	0.91	0.00
Avail Cap (c_a), veh/h	0	581	0	438	592	0	598	0
Upstream Filter (I)	0.00	1.00	0.00	0.99	1.00	0.00	0.79	0.00
Uniform Delay (d1), s/veh	0.0	24.6	0.0	32.4	29.5	0.0	31.5	0.0
Incr Delay (d2), s/veh	0.0	5.8	0.0	27.0	25.9	0.0	12.6	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	30.5	0.0	59.4	55.4	0.0	44.0	0.0
1st-Term Q (Q1), veh/ln	0.0	8.0	0.0	9.8	12.8	0.0	10.1	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.9	0.0	3.2	4.0	0.0	1.6	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	8.9	0.0	13.0	16.8	0.0	11.7	0.0
%ile Storage Ratio (RQ%)	0.00	0.02	0.00	0.07	0.04	0.00	0.06	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	50.0
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	70	262	110	231	331	58	34	261	92	49	472	14
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	76	285	120	251	360	63	37	284	100	53	513	15
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	253	305	128	274	396	69	107	430	151	65	545	16
Arrive On Green	0.15	0.26	0.26	0.17	0.28	0.28	0.07	0.35	0.35	0.04	0.33	0.33
Sat Flow, veh/h	1645	1155	486	1645	1432	251	1645	1221	430	1645	1670	49
Grp Volume(v), veh/h	76	0	405	251	0	423	37	0	384	53	0	528
Grp Sat Flow(s),veh/h/ln	1645	0	1641	1645	0	1683	1645	0	1651	1645	0	1719
Q Serve(g_s), s	3.7	0.0	21.7	13.5	0.0	21.9	1.9	0.0	17.7	2.9	0.0	26.9
Cycle Q Clear(g_c), s	3.7	0.0	21.7	13.5	0.0	21.9	1.9	0.0	17.7	2.9	0.0	26.9
Prop In Lane	1.00		0.30	1.00		0.15	1.00		0.26	1.00		0.03
Lane Grp Cap(c), veh/h	253	0	433	274	0	465	107	0	581	65	0	561
V/C Ratio(X)	0.30	0.00	0.93	0.92	0.00	0.91	0.35	0.00	0.66	0.81	0.00	0.94
Avail Cap(c_a), veh/h	253	0	438	274	0	598	107	0	581	91	0	592
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.99	0.00	0.99	0.79	0.00	0.79	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	33.8	0.0	32.4	36.9	0.0	31.5	40.2	0.0	24.6	42.9	0.0	29.5
Incr Delay (d2), s/veh	0.6	0.0	27.0	28.0	0.0	12.6	1.9	0.0	5.8	29.7	0.0	25.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.7	0.0	13.0	8.3	0.0	11.7	0.9	0.0	8.9	1.8	0.0	16.8
LnGrp Delay(d),s/veh	34.4	0.0	59.4	64.9	0.0	44.0	42.1	0.0	30.5	72.5	0.0	55.4
LnGrp LOS	C		E	E		D	D		C	E		E
Approach Vol, veh/h		481			674			421			581	
Approach Delay, s/veh		55.4			51.8			31.5			57.0	
Approach LOS		E			D			C			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	7.6	35.7	19.0	27.8	9.9	33.4	17.9	28.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	5.0	30.0	15.0	24.0	4.0	31.0	7.0	32.0
Max Q Clear Time (g_c+I1), s	4.9	19.7	15.5	23.7	3.9	28.9	5.7	23.9
Green Ext Time (p_c), s	0.0	1.2	0.0	0.1	0.0	0.5	0.3	1.0

Intersection Summary	
HCM 2010 Ctrl Delay	50.0
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	47	361	21	14	323	331	9	131	18	228	105	48
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1900	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	51	392	23	15	351	360	10	142	20	248	114	52
Adj No. of Lanes	1	1	0	1	1	1	0	1	0	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	179	515	30	170	551	468	71	843	115	767	1023	869
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.32	0.32	0.32	0.32	0.32	0.32	0.59	0.59	0.59	0.59	0.59	0.59
Ln Grp Delay, s/veh	35.9	0.0	28.5	37.2	27.4	30.8	8.7	0.0	0.0	10.0	8.2	7.9
Ln Grp LOS	D		C	D	C	C	A			A	A	A
Approach Vol, veh/h		466			726			172			414	
Approach Delay, s/veh		29.3			29.3			8.7			9.2	
Approach LOS		C			C			A			A	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Case No		8.0		6.0		5.0		5.0
Phs Duration (G+Y+Rc), s		57.3		32.7		57.3		32.7
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green (Gmax), s		40.0		42.0		40.0		42.0
Max Allow Headway (MAH), s		4.4		4.3		4.4		4.3
Max Q Clear (g_c+I1), s		6.2		23.9		10.6		23.0
Green Ext Time (g_e), s		2.5		4.9		2.4		4.9
Prob of Phs Call (p_c)		1.00		1.00		1.00		1.00
Prob of Max Out (p_x)		0.00		0.13		0.00		0.12

Left-Turn Movement Data								
Assigned Mvmt		5		7		1		3
Mvmt Sat Flow, veh/h		49		682		1130		897

Through Movement Data								
Assigned Mvmt		2		4		6		8
Mvmt Sat Flow, veh/h		1424		1616		1727		1727

Right-Turn Movement Data								
Assigned Mvmt		12		14		16		18
Mvmt Sat Flow, veh/h		194		95		1468		1468

Left Lane Group Data								
Assigned Mvmt	0	5	0	7	0	1	0	3
Lane Assignment		L+T+R						
Lanes in Grp	0	1	0	1	0	1	0	1

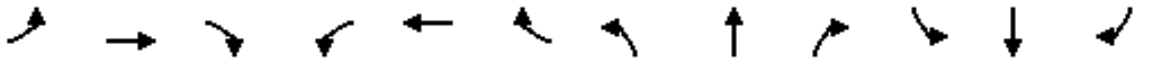
Grp Vol (v), veh/h	0	172	0	51	0	248	0	15
Grp Sat Flow (s), veh/h/ln	0	1667	0	682	0	1130	0	897
Q Serve Time (g_s), s	0.0	0.0	0.0	6.2	0.0	4.4	0.0	1.4
Cycle Q Clear Time (g_c), s	0.0	4.2	0.0	21.9	0.0	8.6	0.0	21.0
Perm LT Sat Flow (s_l), veh/h/ln	0	1239	0	682	0	1130	0	897
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	1504	0	0
Perm LT Eff Green (g_p), s	0.0	53.3	0.0	28.7	0.0	53.3	0.0	28.7
Perm LT Serve Time (g_u), s	0.0	50.7	0.0	13.1	0.0	49.1	0.0	9.1
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	6.2	0.0	4.4	0.0	1.4
Time to First Blk (g_f), s	0.0	25.8	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.06	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	1029	0	179	0	767	0	170
V/C Ratio (X)	0.00	0.17	0.00	0.28	0.00	0.32	0.00	0.09
Avail Cap (c_a), veh/h	0	1029	0	280	0	767	0	303
Upstream Filter (I)	0.00	0.97	0.00	0.38	0.00	0.80	0.00	1.00
Uniform Delay (d1), s/veh	0.0	8.3	0.0	35.5	0.0	9.1	0.0	37.0
Incr Delay (d2), s/veh	0.0	0.3	0.0	0.3	0.0	0.9	0.0	0.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	8.7	0.0	35.9	0.0	10.0	0.0	37.2
1st-Term Q (Q1), veh/ln	0.0	1.9	0.0	1.2	0.0	3.1	0.0	0.3
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	2.0	0.0	1.2	0.0	3.3	0.0	0.4
%ile Storage Ratio (RQ%)	0.00	0.01	0.00	0.19	0.00	0.48	0.00	0.06
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	0	8
Lane Assignment						T		T
Lanes in Grp	0	0	0	0	0	1	0	1
Grp Vol (v), veh/h	0	0	0	0	0	114	0	351
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	1727	0	1727
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	2.6	0.0	15.6
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	2.6	0.0	15.6
Lane Grp Cap (c), veh/h	0	0	0	0	0	1023	0	551
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.64
Avail Cap (c_a), veh/h	0	0	0	0	0	1023	0	806
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.80	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	8.0	0.0	26.2
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.2	0.0	1.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	8.2	0.0	27.4
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	1.2	0.0	7.4
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	1.3	0.0	7.6
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	0	18
Lane Assignment				T+R		R		R
Lanes in Grp	0	0	0	1	0	1	0	1
Grp Vol (v), veh/h	0	0	0	415	0	52	0	360
Grp Sat Flow (s), veh/h/ln	0	0	0	1711	0	1468	0	1468
Q Serve Time (g_s), s	0.0	0.0	0.0	19.6	0.0	1.3	0.0	19.9
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	19.6	0.0	1.3	0.0	19.9
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.12	0.00	0.06	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	0	0	546	0	869	0	468
V/C Ratio (X)	0.00	0.00	0.00	0.76	0.00	0.06	0.00	0.77
Avail Cap (c_a), veh/h	0	0	0	798	0	869	0	685
Upstream Filter (I)	0.00	0.00	0.00	0.38	0.00	0.80	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	27.6	0.0	7.8	0.0	27.7
Incr Delay (d2), s/veh	0.0	0.0	0.0	1.0	0.0	0.1	0.0	3.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	28.5	0.0	7.9	0.0	30.8
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	9.2	0.0	0.5	0.0	8.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.4
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	9.4	0.0	0.6	0.0	8.4
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.05	0.00	0.05	0.00	0.70
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	22.6
HCM 2010 LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	47	361	21	14	323	331	9	131	18	228	105	48
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1900	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	51	392	23	15	351	360	10	142	20	248	114	52
Adj No. of Lanes	1	1	0	1	1	1	0	1	0	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	179	515	30	170	551	468	71	843	115	767	1023	869
Arrive On Green	0.32	0.32	0.32	0.32	0.32	0.32	0.59	0.59	0.59	0.59	0.59	0.59
Sat Flow, veh/h	682	1616	95	897	1727	1468	49	1424	194	1130	1727	1468
Grp Volume(v), veh/h	51	0	415	15	351	360	172	0	0	248	114	52
Grp Sat Flow(s),veh/h/ln	682	0	1711	897	1727	1468	1667	0	0	1130	1727	1468
Q Serve(g_s), s	6.2	0.0	19.6	1.4	15.6	19.9	0.0	0.0	0.0	4.4	2.6	1.3
Cycle Q Clear(g_c), s	21.9	0.0	19.6	21.0	15.6	19.9	4.2	0.0	0.0	8.6	2.6	1.3
Prop In Lane	1.00		0.06	1.00		1.00	0.06		0.12	1.00		1.00
Lane Grp Cap(c), veh/h	179	0	546	170	551	468	1029	0	0	767	1023	869
V/C Ratio(X)	0.28	0.00	0.76	0.09	0.64	0.77	0.17	0.00	0.00	0.32	0.11	0.06
Avail Cap(c_a), veh/h	280	0	798	303	806	685	1029	0	0	767	1023	869
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.38	0.00	0.38	1.00	1.00	1.00	0.97	0.00	0.00	0.80	0.80	0.80
Uniform Delay (d), s/veh	35.5	0.0	27.6	37.0	26.2	27.7	8.3	0.0	0.0	9.1	8.0	7.8
Incr Delay (d2), s/veh	0.3	0.0	1.0	0.2	1.2	3.2	0.3	0.0	0.0	0.9	0.2	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.2	0.0	9.4	0.4	7.6	8.4	2.0	0.0	0.0	3.3	1.3	0.6
LnGrp Delay(d),s/veh	35.9	0.0	28.5	37.2	27.4	30.8	8.7	0.0	0.0	10.0	8.2	7.9
LnGrp LOS	D		C	D	C	C	A			A	A	A
Approach Vol, veh/h		466			726			172			414	
Approach Delay, s/veh		29.3			29.3			8.7			9.2	
Approach LOS		C			C			A			A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Phs Duration (G+Y+Rc), s		57.3		32.7		57.3		32.7
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green Setting (Gmax), s		40.0		42.0		40.0		42.0
Max Q Clear Time (g_c+I1), s		6.2		23.9		10.6		23.0
Green Ext Time (p_c), s		2.5		4.9		2.4		4.9

Intersection Summary		
HCM 2010 Ctrl Delay		22.6
HCM 2010 LOS		C

Intersection	
Int Delay, s/veh	0.6

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	0	90	777	0	9	23
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	19	19	19	19	10	10
Mvmt Flow	0	98	845	0	10	25

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	845	0	-	0	943	845
Stage 1	-	-	-	-	845	-
Stage 2	-	-	-	-	98	-
Critical Hdwy	4.29	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.371	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	723	-	-	-	282	351
Stage 1	-	-	-	-	408	-
Stage 2	-	-	-	-	906	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	723	-	-	-	282	351
Mov Cap-2 Maneuver	-	-	-	-	282	-
Stage 1	-	-	-	-	408	-
Stage 2	-	-	-	-	906	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	17.3
HCM LOS			C

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	723	-	-	-	328
HCM Lane V/C Ratio	-	-	-	-	0.106
HCM Control Delay (s)	0	-	-	-	17.3
HCM Lane LOS	A	-	-	-	C
HCM 95th %tile Q(veh)	0	-	-	-	0.4

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	WBT	WBR	SEL	SER
Vol, veh/h	0	579	224	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	19	19	19	19	10	10
Mvmt Flow	0	629	243	0	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	243	0	-	0	872	243
Stage 1	-	-	-	-	243	-
Stage 2	-	-	-	-	629	-
Critical Hdwy	4.29	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.371	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1230	-	-	-	311	777
Stage 1	-	-	-	-	779	-
Stage 2	-	-	-	-	516	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1230	-	-	-	311	777
Mov Cap-2 Maneuver	-	-	-	-	311	-
Stage 1	-	-	-	-	779	-
Stage 2	-	-	-	-	516	-

Approach	EB	WB	SE
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SELn1
Capacity (veh/h)	1230	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	-	-	0
HCM Lane LOS	A	-	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	-

Intersection	
Int Delay, s/veh	3.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	21	172	2	9	353	72	2	0	2	86	1	45
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	492	-	-	499	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	22	22	22	22	22	22	10	10	10	10	10	10
Mvmt Flow	23	187	2	10	384	78	2	0	2	93	1	49

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	462	0	0	189	0	0	701	716	188	677	677	423
Stage 1	-	-	-	-	-	-	234	234	-	442	442	-
Stage 2	-	-	-	-	-	-	467	482	-	235	235	-
Critical Hdwy	4.32	-	-	4.32	-	-	7.2	6.6	6.3	7.2	6.6	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Follow-up Hdwy	2.398	-	-	2.398	-	-	3.59	4.09	3.39	3.59	4.09	3.39
Pot Cap-1 Maneuver	1002	-	-	1274	-	-	343	346	834	356	365	614
Stage 1	-	-	-	-	-	-	751	697	-	579	563	-
Stage 2	-	-	-	-	-	-	561	540	-	750	696	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1002	-	-	1274	-	-	308	335	834	347	354	614
Mov Cap-2 Maneuver	-	-	-	-	-	-	308	335	-	347	354	-
Stage 1	-	-	-	-	-	-	734	681	-	566	559	-
Stage 2	-	-	-	-	-	-	511	536	-	731	680	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.9	0.2	13.1	18.6
HCM LOS			B	C

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	450	1002	-	-	1274	-	-	407
HCM Lane V/C Ratio	0.01	0.023	-	-	0.008	-	-	0.353
HCM Control Delay (s)	13.1	8.7	-	-	7.8	-	-	18.6
HCM Lane LOS	B	A	-	-	A	-	-	C
HCM 95th %tile Q(veh)	0	0.1	-	-	0	-	-	1.6

Intersection	
Int Delay, s/veh	3.1

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	9	310	448	113	106	16
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	104	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	23	23	23	23	10	10
Mvmt Flow	10	337	487	123	115	17

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	610	0	-	0	905	548
Stage 1	-	-	-	-	548	-
Stage 2	-	-	-	-	357	-
Critical Hdwy	4.33	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.407	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	874	-	-	-	297	521
Stage 1	-	-	-	-	563	-
Stage 2	-	-	-	-	691	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	874	-	-	-	294	521
Mov Cap-2 Maneuver	-	-	-	-	294	-
Stage 1	-	-	-	-	563	-
Stage 2	-	-	-	-	683	-

Approach	EB	WB	SB
HCM Control Delay, s	0.3	0	24.8
HCM LOS			C

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	874	-	-	-	312
HCM Lane V/C Ratio	0.011	-	-	-	0.425
HCM Control Delay (s)	9.2	-	-	-	24.8
HCM Lane LOS	A	-	-	-	C
HCM 95th %tile Q(veh)	0	-	-	-	2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	23	243	11	3	427	42	24	44	8	30	52	69
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1624	1624	1900	1624	1624	1624	1900	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	25	264	12	3	464	46	26	48	9	33	57	75
Adj No. of Lanes	1	1	0	1	1	1	0	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	17	17	17	17	17	17	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	408	1141	52	5	778	661	91	140	22	73	82	92
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.26	0.74	0.74	0.00	0.48	0.48	0.13	0.13	0.13	0.13	0.13	0.13
Ln Grp Delay, s/veh	26.5	0.0	4.4	130.1	21.6	13.7	38.8	0.0	0.0	43.5	0.0	0.0
Ln Grp LOS	C		A	F	C	B	D			D		
Approach Vol, veh/h		301			513			83			165	
Approach Delay, s/veh		6.2			21.5			38.8			43.5	
Approach LOS		A			C			D			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6	8	7
Case No		8.0	2.0	4.0		8.0	3.0	2.0
Phs Duration (G+Y+Rc), s		16.6	4.3	75.0		16.6	50.0	29.4
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0	4.0	4.0
Max Green (Gmax), s		25.0	11.0	48.0		25.0	46.0	13.0
Max Allow Headway (MAH), s		4.2	4.1	4.1		4.2	4.1	4.1
Max Q Clear (g_c+I1), s		6.3	2.2	7.2		12.0	22.0	3.2
Green Ext Time (g_e), s		0.8	0.0	1.1		0.7	1.9	0.7
Prob of Phs Call (p_c)		1.00	0.08	1.00		1.00	1.00	0.49
Prob of Max Out (p_x)		0.00	0.00	0.00		0.00	0.00	0.04

Left-Turn Movement Data								
Assigned Mvmt		5	3			1		7
Mvmt Sat Flow, veh/h		316	1547			213		1547

Through Movement Data								
Assigned Mvmt		2		4		6	8	
Mvmt Sat Flow, veh/h		1059		1541		624	1624	

Right-Turn Movement Data								
Assigned Mvmt		12		14		16	18	
Mvmt Sat Flow, veh/h		167		70		697	1380	

Left Lane Group Data								
Assigned Mvmt	0	5	3	0	0	1	0	7
Lane Assignment		L+T+R	(Prot)			L+T+R		(Prot)
Lanes in Grp	0	1	1	0	0	1	0	1

Grp Vol (v), veh/h	0	83	3	0	0	165	0	25
Grp Sat Flow (s), veh/h/ln	0	1543	1547	0	0	1534	0	1547
Q Serve Time (g_s), s	0.0	0.0	0.2	0.0	0.0	5.6	0.0	1.2
Cycle Q Clear Time (g_c), s	0.0	4.3	0.2	0.0	0.0	10.0	0.0	1.2
Perm LT Sat Flow (s_l), veh/h/ln	0	1278	0	0	0	1368	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	1473	0	0	0	1710	0	0
Perm LT Eff Green (g_p), s	0.0	12.6	0.0	0.0	0.0	12.6	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	2.7	0.0	0.0	0.0	8.3	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	5.6	0.0	0.0
Time to First Blk (g_f), s	0.0	4.0	0.0	0.0	0.0	3.7	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	4.0	0.0	0.0	0.0	3.7	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.31	1.00	0.00	0.00	0.20	0.00	1.00
Lane Grp Cap (c), veh/h	0	253	5	0	0	247	0	408
V/C Ratio (X)	0.00	0.33	0.61	0.00	0.00	0.67	0.00	0.06
Avail Cap (c_a), veh/h	0	442	177	0	0	439	0	408
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	38.1	47.8	0.0	0.0	40.4	0.0	26.4
Incr Delay (d2), s/veh	0.0	0.8	82.3	0.0	0.0	3.1	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	38.8	130.1	0.0	0.0	43.5	0.0	26.5
1st-Term Q (Q1), veh/ln	0.0	2.0	0.1	0.0	0.0	4.3	0.0	0.5
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.1	0.0	0.0	0.2	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	2.1	0.2	0.0	0.0	4.5	0.0	0.5
%ile Storage Ratio (RQ%)	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.03
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	8	0
Lane Assignment							T	
Lanes in Grp	0	0	0	0	0	0	1	0
Grp Vol (v), veh/h	0	0	0	0	0	0	464	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	1624	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	778	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	0	778	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	18.2	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	21.6	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	8.9	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	9.6	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	18	0
Lane Assignment				T+R			R	
Lanes in Grp	0	0	0	1	0	0	1	0
Grp Vol (v), veh/h	0	0	0	276	0	0	46	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1612	0	0	1380	0
Q Serve Time (g_s), s	0.0	0.0	0.0	5.2	0.0	0.0	1.7	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	5.2	0.0	0.0	1.7	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.11	0.00	0.04	0.00	0.45	1.00	0.00
Lane Grp Cap (c), veh/h	0	0	0	1193	0	0	661	0
V/C Ratio (X)	0.00	0.00	0.00	0.23	0.00	0.00	0.07	0.00
Avail Cap (c_a), veh/h	0	0	0	1193	0	0	661	0
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	3.9	0.0	0.0	13.5	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.5	0.0	0.0	0.2	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	4.4	0.0	0.0	13.7	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	2.2	0.0	0.0	0.7	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	2.4	0.0	0.0	0.7	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.01	0.00	0.00	0.03	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	21.9
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	23	243	11	3	427	42	24	44	8	30	52	69
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1624	1624	1900	1624	1624	1624	1900	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	25	264	12	3	464	46	26	48	9	33	57	75
Adj No. of Lanes	1	1	0	1	1	1	0	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	17	17	17	17	17	17	10	10	10	10	10	10
Cap, veh/h	408	1141	52	5	778	661	91	140	22	73	82	92
Arrive On Green	0.26	0.74	0.74	0.00	0.48	0.48	0.13	0.13	0.13	0.13	0.13	0.13
Sat Flow, veh/h	1547	1541	70	1547	1624	1380	316	1059	167	213	624	697
Grp Volume(v), veh/h	25	0	276	3	464	46	83	0	0	165	0	0
Grp Sat Flow(s),veh/h/ln	1547	0	1612	1547	1624	1380	1543	0	0	1534	0	0
Q Serve(g_s), s	1.2	0.0	5.2	0.2	20.0	1.7	0.0	0.0	0.0	5.6	0.0	0.0
Cycle Q Clear(g_c), s	1.2	0.0	5.2	0.2	20.0	1.7	4.3	0.0	0.0	10.0	0.0	0.0
Prop In Lane	1.00		0.04	1.00		1.00	0.31		0.11	0.20		0.45
Lane Grp Cap(c), veh/h	408	0	1193	5	778	661	253	0	0	247	0	0
V/C Ratio(X)	0.06	0.00	0.23	0.61	0.60	0.07	0.33	0.00	0.00	0.67	0.00	0.00
Avail Cap(c_a), veh/h	408	0	1193	177	778	661	442	0	0	439	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	26.4	0.0	3.9	47.8	18.2	13.5	38.1	0.0	0.0	40.4	0.0	0.0
Incr Delay (d2), s/veh	0.1	0.0	0.5	82.3	3.4	0.2	0.8	0.0	0.0	3.1	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	0.0	2.4	0.2	9.6	0.7	2.1	0.0	0.0	4.5	0.0	0.0
LnGrp Delay(d),s/veh	26.5	0.0	4.4	130.1	21.6	13.7	38.8	0.0	0.0	43.5	0.0	0.0
LnGrp LOS	C		A	F	C	B	D			D		
Approach Vol, veh/h		301			513			83			165	
Approach Delay, s/veh		6.2			21.5			38.8			43.5	
Approach LOS		A			C			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6	7	8
Phs Duration (G+Y+Rc), s		16.6	4.3	75.0		16.6	29.4	50.0
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0	4.0	4.0
Max Green Setting (Gmax), s		25.0	11.0	48.0		25.0	13.0	46.0
Max Q Clear Time (g_c+I1), s		6.3	2.2	7.2		12.0	3.2	22.0
Green Ext Time (p_c), s		0.8	0.0	1.1		0.7	0.7	1.9

Intersection Summary	
HCM 2010 Ctrl Delay	21.9
HCM 2010 LOS	C

Intersection	
Intersection Delay, s/veh	16
Intersection LOS	C

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Vol, veh/h	0	10	24	2	0	331	94	13	0	3	40	21	0	13	214	12
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	15	15	15	10	15	15	15	10	10	10	10	10	10	10	10
Mvmt Flow	0	11	26	2	0	360	102	14	0	3	43	23	0	14	233	13
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	9.3	19.4	9.6	12.4
HCM LOS	A	C	A	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	5%	28%	76%	5%
Vol Thru, %	62%	67%	21%	90%
Vol Right, %	33%	6%	3%	5%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	64	36	438	239
LT Vol	3	10	331	13
Through Vol	40	24	94	214
RT Vol	21	2	13	12
Lane Flow Rate	70	39	476	260
Geometry Grp	1	1	1	1
Degree of Util (X)	0.112	0.064	0.691	0.406
Departure Headway (Hd)	5.807	5.903	5.346	5.63
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	620	608	681	642
Service Time	3.821	3.928	3.346	3.637
HCM Lane V/C Ratio	0.113	0.064	0.699	0.405
HCM Control Delay	9.6	9.3	19.4	12.4
HCM Lane LOS	A	A	C	B
HCM 95th-tile Q	0.4	0.2	5.5	2

Intersection	
Int Delay, s/veh	1.7

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	9	56	190	23	23	23
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	15	15	15	15	10	10
Mvmt Flow	10	61	207	25	25	25

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	232	0	-	0	299	219
Stage 1	-	-	-	-	219	-
Stage 2	-	-	-	-	80	-
Critical Hdwy	4.25	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.335	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1263	-	-	-	676	801
Stage 1	-	-	-	-	799	-
Stage 2	-	-	-	-	923	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1263	-	-	-	671	801
Mov Cap-2 Maneuver	-	-	-	-	671	-
Stage 1	-	-	-	-	799	-
Stage 2	-	-	-	-	916	-

Approach	EB	WB	SB
HCM Control Delay, s	1.1	0	10.3
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1263	-	-	-	730
HCM Lane V/C Ratio	0.008	-	-	-	0.068
HCM Control Delay (s)	7.9	0	-	-	10.3
HCM Lane LOS	A	A	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	158	700	6	223	800	203	237	1374	226	296	766	171
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	172	761	7	242	870	221	258	1493	246	322	833	186
Adj No. of Lanes	2	2	1	2	3	0	2	3	0	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	186	766	343	248	949	240	332	1633	268	355	1920	598
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.06	0.23	0.23	0.08	0.25	0.25	0.10	0.40	0.40	0.11	0.41	0.41
Ln Grp Delay, s/veh	86.7	65.3	14.9	91.4	47.8	59.2	45.6	36.5	44.5	62.6	19.8	11.4
Ln Grp LOS	F	E	B	F	D	E	D	D	D	E	B	B
Approach Vol, veh/h		940			1333			1997			1341	
Approach Delay, s/veh		68.9			58.8			40.0			28.9	
Approach LOS		E			E			D			C	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	5	6	8	7
Case No	2.0	4.0	3.0	2.0	2.0	3.0	4.0	2.0
Phs Duration (G+Y+Rc), s	14.0	40.0	25.0	11.0	13.4	40.6	26.7	9.3
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	10.0	36.0	21.0	7.0	12.0	34.0	23.0	5.0
Max Allow Headway (MAH), s	4.1	4.1	4.0	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	11.0	33.2	22.8	8.8	9.1	13.4	22.4	6.8
Green Ext Time (g_e), s	0.0	2.4	0.0	0.0	0.3	13.6	0.3	0.0
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.99
Prob of Max Out (p_x)	1.00	1.00	1.00	1.00	1.00	0.59	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt	1			3	5			7
Mvmt Sat Flow, veh/h	3191			3191	3191			3191

Through Movement Data								
Assigned Mvmt		2	4			6	8	
Mvmt Sat Flow, veh/h		4081	3282			4715	3755	

Right-Turn Movement Data								
Assigned Mvmt		12	14			16	18	
Mvmt Sat Flow, veh/h		671	1468			1468	949	

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	5	0	0	7
Lane Assignment	(Prot)			(Prot)	(Prot)			(Prot)
Lanes in Grp	2	0	0	2	2	0	0	2

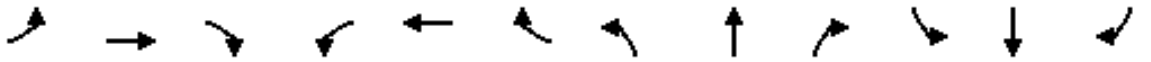
Grp Vol (v), veh/h	322	0	0	242	258	0	0	172
Grp Sat Flow (s), veh/h/ln	1596	0	0	1596	1596	0	0	1596
Q Serve Time (g_s), s	9.0	0.0	0.0	6.8	7.1	0.0	0.0	4.8
Cycle Q Clear Time (g_c), s	9.0	0.0	0.0	6.8	7.1	0.0	0.0	4.8
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	355	0	0	248	332	0	0	186
V/C Ratio (X)	0.91	0.00	0.00	0.97	0.78	0.00	0.00	0.92
Avail Cap (c_a), veh/h	355	0	0	248	426	0	0	186
Upstream Filter (I)	0.83	0.00	0.00	1.00	0.93	0.00	0.00	1.00
Uniform Delay (d1), s/veh	39.5	0.0	0.0	41.4	39.3	0.0	0.0	42.2
Incr Delay (d2), s/veh	23.0	0.0	0.0	49.9	6.3	0.0	0.0	44.5
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	62.6	0.0	0.0	91.4	45.6	0.0	0.0	86.7
1st-Term Q (Q1), veh/ln	3.9	0.0	0.0	3.0	3.1	0.0	0.0	2.1
2nd-Term Q (Q2), veh/ln	1.1	0.0	0.0	1.7	0.3	0.0	0.0	1.2
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	5.1	0.0	0.0	4.7	3.4	0.0	0.0	3.3
%ile Storage Ratio (RQ%)	0.72	0.00	0.00	0.66	0.51	0.00	0.00	0.47
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	0	6	8	0
Lane Assignment		T	T			T	T	
Lanes in Grp	0	2	2	0	0	3	2	0
Grp Vol (v), veh/h	0	1149	761	0	0	833	728	0
Grp Sat Flow (s), veh/h/ln	0	1572	1641	0	0	1572	1572	0
Q Serve Time (g_s), s	0.0	31.1	20.8	0.0	0.0	11.4	20.3	0.0
Cycle Q Clear Time (g_c), s	0.0	31.1	20.8	0.0	0.0	11.4	20.3	0.0
Lane Grp Cap (c), veh/h	0	1257	766	0	0	1920	794	0
V/C Ratio (X)	0.00	0.91	0.99	0.00	0.00	0.43	0.92	0.00
Avail Cap (c_a), veh/h	0	1257	766	0	0	1920	803	0
Upstream Filter (I)	0.00	0.93	1.00	0.00	0.00	0.83	1.00	0.00
Uniform Delay (d1), s/veh	0.0	25.5	34.4	0.0	0.0	19.2	32.7	0.0
Incr Delay (d2), s/veh	0.0	11.0	30.9	0.0	0.0	0.6	15.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	36.5	65.3	0.0	0.0	19.8	47.8	0.0
1st-Term Q (Q1), veh/ln	0.0	13.4	9.4	0.0	0.0	4.9	8.8	0.0
2nd-Term Q (Q2), veh/ln	0.0	1.9	3.3	0.0	0.0	0.1	1.7	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	15.3	12.7	0.0	0.0	5.0	10.5	0.0
%ile Storage Ratio (RQ%)	0.00	0.02	0.07	0.00	0.00	0.01	0.05	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	14	0	0	16	18	0
Lane Assignment		T+R	R			R	T+R	
Lanes in Grp	0	1	1	0	0	1	1	0
Grp Vol (v), veh/h	0	590	7	0	0	186	363	0
Grp Sat Flow (s), veh/h/ln	0	1609	1468	0	0	1468	1560	0
Q Serve Time (g_s), s	0.0	31.2	0.2	0.0	0.0	5.8	20.4	0.0
Cycle Q Clear Time (g_c), s	0.0	31.2	0.2	0.0	0.0	5.8	20.4	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.42	1.00	0.00	0.00	1.00	0.61	0.00
Lane Grp Cap (c), veh/h	0	644	343	0	0	598	394	0
V/C Ratio (X)	0.00	0.92	0.02	0.00	0.00	0.31	0.92	0.00
Avail Cap (c_a), veh/h	0	644	343	0	0	598	399	0
Upstream Filter (I)	0.00	0.93	1.00	0.00	0.00	0.83	1.00	0.00
Uniform Delay (d1), s/veh	0.0	25.6	14.9	0.0	0.0	10.2	32.8	0.0
Incr Delay (d2), s/veh	0.0	18.9	0.0	0.0	0.0	1.1	26.4	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	44.5	14.9	0.0	0.0	11.4	59.2	0.0
1st-Term Q (Q1), veh/ln	0.0	13.8	0.1	0.0	0.0	2.3	8.8	0.0
2nd-Term Q (Q2), veh/ln	0.0	3.4	0.0	0.0	0.0	0.2	2.9	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	17.1	0.1	0.0	0.0	2.5	11.7	0.0
%ile Storage Ratio (RQ%)	0.00	0.02	0.01	0.00	0.00	0.01	0.06	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

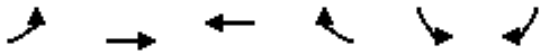
Intersection Summary	
HCM 2010 Ctrl Delay	46.7
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	158	700	6	223	800	203	237	1374	226	296	766	171
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	172	761	7	242	870	221	258	1493	246	322	833	186
Adj No. of Lanes	2	2	1	2	3	0	2	3	0	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	186	766	343	248	949	240	332	1633	268	355	1920	598
Arrive On Green	0.06	0.23	0.23	0.08	0.25	0.25	0.10	0.40	0.40	0.11	0.41	0.41
Sat Flow, veh/h	3191	3282	1468	3191	3755	949	3191	4081	671	3191	4715	1468
Grp Volume(v), veh/h	172	761	7	242	728	363	258	1149	590	322	833	186
Grp Sat Flow(s),veh/h/ln	1596	1641	1468	1596	1572	1560	1596	1572	1609	1596	1572	1468
Q Serve(g_s), s	4.8	20.8	0.2	6.8	20.3	20.4	7.1	31.1	31.2	9.0	11.4	5.8
Cycle Q Clear(g_c), s	4.8	20.8	0.2	6.8	20.3	20.4	7.1	31.1	31.2	9.0	11.4	5.8
Prop In Lane	1.00		1.00	1.00		0.61	1.00		0.42	1.00		1.00
Lane Grp Cap(c), veh/h	186	766	343	248	794	394	332	1257	644	355	1920	598
V/C Ratio(X)	0.92	0.99	0.02	0.97	0.92	0.92	0.78	0.91	0.92	0.91	0.43	0.31
Avail Cap(c_a), veh/h	186	766	343	248	803	399	426	1257	644	355	1920	598
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	0.93	0.93	0.93	0.83	0.83	0.83
Uniform Delay (d), s/veh	42.2	34.4	14.9	41.4	32.7	32.8	39.3	25.5	25.6	39.5	19.2	10.2
Incr Delay (d2), s/veh	44.5	30.9	0.0	49.9	15.1	26.4	6.3	11.0	18.9	23.0	0.6	1.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.3	12.7	0.1	4.7	10.5	11.7	3.4	15.3	17.1	5.1	5.0	2.5
LnGrp Delay(d),s/veh	86.7	65.3	14.9	91.4	47.8	59.2	45.6	36.5	44.5	62.6	19.8	11.4
LnGrp LOS	F	E	B	F	D	E	D	D	D	E	B	B
Approach Vol, veh/h		940			1333			1997			1341	
Approach Delay, s/veh		68.9			58.8			40.0			28.9	
Approach LOS		E			E			D			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.0	40.0	11.0	25.0	13.4	40.6	9.3	26.7
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	10.0	36.0	7.0	21.0	12.0	34.0	5.0	23.0
Max Q Clear Time (g_c+I1), s	11.1	33.2	8.8	22.8	9.1	13.4	6.8	22.4
Green Ext Time (p_c), s	0.0	2.4	0.0	0.0	0.3	13.6	0.0	0.3

Intersection Summary	
HCM 2010 Ctrl Delay	46.7
HCM 2010 LOS	D



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (veh/h)	69	221	517	518	135	25
Number	7	4	8	18	1	16
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00			1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	75	240	562	563	147	27
Adj No. of Lanes	2	2	2	1	2	2
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Opposing Right Turn Influence	Yes				Yes	
Cap, veh/h	880	2747	2747	1229	237	192
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.84	0.84	0.84	0.84	0.07	0.07
Ln Grp Delay, s/veh	2.1	1.4	1.6	3.0	43.1	39.3
Ln Grp LOS	A	A	A	A	D	D
Approach Vol, veh/h		315	1125		174	
Approach Delay, s/veh		1.5	2.3		42.5	
Approach LOS		A	A		D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	6			4				8
Case No	9.0			6.0				7.0
Phs Duration (G+Y+Rc), s	10.7			79.3				79.3
Change Period (Y+Rc), s	4.0			4.0				4.0
Max Green (Gmax), s	30.0			52.0				52.0
Max Allow Headway (MAH), s	4.1			4.4				4.4
Max Q Clear (g_c+I1), s	6.0			6.6				11.1
Green Ext Time (g_e), s	0.7			9.0				8.9
Prob of Phs Call (p_c)	1.00			1.00				1.00
Prob of Max Out (p_x)	0.00			0.00				0.00

Left-Turn Movement Data								
Assigned Mvmt	1			7				3
Mvmt Sat Flow, veh/h	3191			897				0

Through Movement Data								
Assigned Mvmt	6			4				8
Mvmt Sat Flow, veh/h	0			3368				3368

Right-Turn Movement Data								
Assigned Mvmt	16			14				18
Mvmt Sat Flow, veh/h	2584			0				1468

Left Lane Group Data								
Assigned Mvmt	1	0	0	7	0	0	0	3
Lane Assignment								
Lanes in Grp	2	0	0	2	0	0	0	0

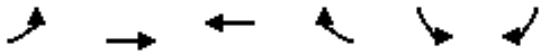
Grp Vol (v), veh/h	147	0	0	75	0	0	0	0
Grp Sat Flow (s), veh/h/ln	1596	0	0	448	0	0	0	0
Q Serve Time (g_s), s	4.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	4.0	0.0	0.0	4.6	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	1596	0	0	448	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	75.3	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	72.3	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.3
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	237	0	0	880	0	0	0	0
V/C Ratio (X)	0.62	0.00	0.00	0.09	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	1064	0	0	880	0	0	0	0
Upstream Filter (I)	1.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	40.4	0.0	0.0	1.9	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	2.7	0.0	0.0	0.2	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	43.1	0.0	0.0	2.1	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	1.8	0.0	0.0	0.2	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	1.9	0.0	0.0	0.2	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.25	0.00	0.00	0.02	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	6	0	0	4	0	0	0	8
Lane Assignment				T				T
Lanes in Grp	0	0	0	2	0	0	0	2
Grp Vol (v), veh/h	0	0	0	240	0	0	0	562
Grp Sat Flow (s), veh/h/ln	0	0	0	1641	0	0	0	1641
Q Serve Time (g_s), s	0.0	0.0	0.0	1.2	0.0	0.0	0.0	3.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	1.2	0.0	0.0	0.0	3.0
Lane Grp Cap (c), veh/h	0	0	0	2747	0	0	0	2747
V/C Ratio (X)	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.20
Avail Cap (c_a), veh/h	0	0	0	2747	0	0	0	2747
Upstream Filter (I)	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.89
Uniform Delay (d1), s/veh	0.0	0.0	0.0	1.3	0.0	0.0	0.0	1.4
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	1.4	0.0	0.0	0.0	1.6
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.5	0.0	0.0	0.0	1.3
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.5	0.0	0.0	0.0	1.4
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	16	0	0	14	0	0	0	18
Lane Assignment	R							R
Lanes in Grp	2	0	0	0	0	0	0	1
Grp Vol (v), veh/h	27	0	0	0	0	0	0	563
Grp Sat Flow (s), veh/h/ln	1292	0	0	0	0	0	0	1468
Q Serve Time (g_s), s	0.9	0.0	0.0	0.0	0.0	0.0	0.0	9.1
Cycle Q Clear Time (g_c), s	0.9	0.0	0.0	0.0	0.0	0.0	0.0	9.1
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	192	0	0	0	0	0	0	1229
V/C Ratio (X)	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.46
Avail Cap (c_a), veh/h	861	0	0	0	0	0	0	1229
Upstream Filter (I)	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89
Uniform Delay (d1), s/veh	39.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
Incr Delay (d2), s/veh	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	39.3	0.0	0.0	0.0	0.0	0.0	0.0	3.0
1st-Term Q (Q1), veh/ln	0.3	0.0	0.0	0.0	0.0	0.0	0.0	3.6
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.3	0.0	0.0	0.0	0.0	0.0	0.0	4.0
%ile Storage Ratio (RQ%)	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.54
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	6.5
HCM 2010 LOS	A



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (veh/h)	69	221	517	518	135	25
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	75	240	562	563	147	27
Adj No. of Lanes	2	2	2	1	2	2
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Cap, veh/h	880	2747	2747	1229	237	192
Arrive On Green	0.84	0.84	0.84	0.84	0.07	0.07
Sat Flow, veh/h	897	3368	3368	1468	3191	2584
Grp Volume(v), veh/h	75	240	562	563	147	27
Grp Sat Flow(s),veh/h/ln	448	1641	1641	1468	1596	1292
Q Serve(g_s), s	1.6	1.2	3.0	9.1	4.0	0.9
Cycle Q Clear(g_c), s	4.6	1.2	3.0	9.1	4.0	0.9
Prop In Lane	1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	880	2747	2747	1229	237	192
V/C Ratio(X)	0.09	0.09	0.20	0.46	0.62	0.14
Avail Cap(c_a), veh/h	880	2747	2747	1229	1064	861
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.98	0.98	0.89	0.89	1.00	1.00
Uniform Delay (d), s/veh	1.9	1.3	1.4	1.9	40.4	39.0
Incr Delay (d2), s/veh	0.2	0.1	0.1	1.1	2.7	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.5	1.4	4.0	1.9	0.3
LnGrp Delay(d),s/veh	2.1	1.4	1.6	3.0	43.1	39.3
LnGrp LOS	A	A	A	A	D	D
Approach Vol, veh/h		315	1125		174	
Approach Delay, s/veh		1.5	2.3		42.5	
Approach LOS		A	A		D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		8
Phs Duration (G+Y+Rc), s				79.3		10.7		79.3
Change Period (Y+Rc), s				4.0		4.0		4.0
Max Green Setting (Gmax), s				52.0		30.0		52.0
Max Q Clear Time (g_c+I1), s				6.6		6.0		11.1
Green Ext Time (p_c), s				9.0		0.7		8.9

Intersection Summary	
HCM 2010 Ctrl Delay	6.5
HCM 2010 LOS	A

Intersection	
Int Delay, s/veh	2.3

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	310	113	75	496	69	40
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	0	-	0	-
Veh in Median Storage, #	0	-	-	0	1	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	337	123	82	539	75	43

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	460	0	1100	398
Stage 1	-	-	-	-	398	-
Stage 2	-	-	-	-	702	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	1060	-	227	635
Stage 1	-	-	-	-	661	-
Stage 2	-	-	-	-	477	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1060	-	209	635
Mov Cap-2 Maneuver	-	-	-	-	330	-
Stage 1	-	-	-	-	661	-
Stage 2	-	-	-	-	440	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.1	17.7
HCM LOS			C

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	401	-	-	1060	-
HCM Lane V/C Ratio	0.295	-	-	0.077	-
HCM Control Delay (s)	17.7	-	-	8.7	-
HCM Lane LOS	C	-	-	A	-
HCM 95th %tile Q(veh)	1.2	-	-	0.2	-

Intersection	
Int Delay, s/veh	1.5

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	49	21	531	98	4	117
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	53	23	577	107	4	127

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	766	630	0	0	684	0
Stage 1	630	-	-	-	-	-
Stage 2	136	-	-	-	-	-
Critical Hdwy	6.5	6.3	-	-	4.2	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	-	-	2.29	-
Pot Cap-1 Maneuver	360	467	-	-	873	-
Stage 1	516	-	-	-	-	-
Stage 2	871	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	358	467	-	-	873	-
Mov Cap-2 Maneuver	358	-	-	-	-	-
Stage 1	516	-	-	-	-	-
Stage 2	867	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	16.6	0	0.3
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	385	873	-
HCM Lane V/C Ratio	-	-	0.198	0.005	-
HCM Control Delay (s)	-	-	16.6	9.1	0
HCM Lane LOS	-	-	C	A	A
HCM 95th %tile Q(veh)	-	-	0.7	0	-

Intersection	
Int Delay, s/veh	1.3

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	17	56	469	7	3	46
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	18	61	510	8	3	50

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	517	0	-	0	612	514
Stage 1	-	-	-	-	514	-
Stage 2	-	-	-	-	98	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1009	-	-	-	444	545
Stage 1	-	-	-	-	584	-
Stage 2	-	-	-	-	906	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1009	-	-	-	436	545
Mov Cap-2 Maneuver	-	-	-	-	436	-
Stage 1	-	-	-	-	584	-
Stage 2	-	-	-	-	890	-

Approach	EB	WB	SB
HCM Control Delay, s	2	0	12.4
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1009	-	-	-	537
HCM Lane V/C Ratio	0.018	-	-	-	0.099
HCM Control Delay (s)	8.6	0	-	-	12.4
HCM Lane LOS	A	A	-	-	B
HCM 95th %tile Q(veh)	0.1	-	-	-	0.3

Intersection	
Int Delay, s/veh	2

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	12	99	416	13	31	57
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	13	108	452	14	34	62

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	466	0	-	0	593	459
Stage 1	-	-	-	-	459	-
Stage 2	-	-	-	-	134	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1055	-	-	-	455	586
Stage 1	-	-	-	-	620	-
Stage 2	-	-	-	-	873	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1055	-	-	-	449	586
Mov Cap-2 Maneuver	-	-	-	-	449	-
Stage 1	-	-	-	-	620	-
Stage 2	-	-	-	-	862	-

Approach	EB	WB	SB
HCM Control Delay, s	0.9	0	13.3
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1055	-	-	-	529
HCM Lane V/C Ratio	0.012	-	-	-	0.181
HCM Control Delay (s)	8.5	0	-	-	13.3
HCM Lane LOS	A	A	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0.7

Intersection	
Intersection Delay, s/veh	31.1
Intersection LOS	D

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	17	85	37	0	79	328	52	0	80	117	128
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	18	92	40	0	86	357	57	0	87	127	139
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	1	1	1
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	1	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	1	1
HCM Control Delay	14.3	47.7	24.1
HCM LOS	B	E	C

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	25%	12%	17%	18%
Vol Thru, %	36%	61%	71%	61%
Vol Right, %	39%	27%	11%	21%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	325	139	459	253
LT Vol	80	17	79	45
Through Vol	117	85	328	154
RT Vol	128	37	52	54
Lane Flow Rate	353	151	499	275
Geometry Grp	1	1	1	1
Degree of Util (X)	0.688	0.322	0.92	0.559
Departure Headway (Hd)	7.012	7.67	6.781	7.319
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	516	468	539	495
Service Time	5.039	5.72	4.781	5.351
HCM Lane V/C Ratio	0.684	0.323	0.926	0.556
HCM Control Delay	24.1	14.3	47.7	19.3
HCM Lane LOS	C	B	E	C
HCM 95th-tile Q	5.2	1.4	11.1	3.4

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	45	154	54
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10
Mvmt Flow	0	49	167	59
Number of Lanes	0	0	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	1
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	19.3
HCM LOS	C

Lane

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	0	0	0	631	13	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	0	0	686	14	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	0	0	686	0
Stage 1	-	-	-	-	0	-
Stage 2	-	-	-	-	686	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	-	-	401	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	485	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	401	-
Mov Cap-2 Maneuver	-	-	-	-	401	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	485	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	
HCM LOS			-

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	-	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	-	-	-	0	-
HCM Lane LOS	-	-	-	A	-
HCM 95th %tile Q(veh)	-	-	-	-	-

Intersection	
Int Delay, s/veh	15.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	0	1	1	105	26	406	4	162	10	12	51	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	1	1	114	28	441	4	176	11	13	55	0

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	507	278	55	273	272	182	55	0	0	187	0	0
Stage 1	82	82	-	190	190	-	-	-	-	-	-	-
Stage 2	425	196	-	83	82	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.2	6.6	6.3	4.2	-	-	4.2	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.59	4.09	3.39	2.29	-	-	2.29	-	-
Pot Cap-1 Maneuver	463	617	990	664	621	840	1500	-	-	1341	-	-
Stage 1	907	811	-	794	728	-	-	-	-	-	-	-
Stage 2	592	724	-	906	811	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	210	609	990	656	613	840	1500	-	-	1341	-	-
Mov Cap-2 Maneuver	210	609	-	656	613	-	-	-	-	-	-	-
Stage 1	904	803	-	792	726	-	-	-	-	-	-	-
Stage 2	269	722	-	895	803	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	9.8	21.8	0.2	1.5
HCM LOS	A	C		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1500	-	-	754	783	1341	-	-
HCM Lane V/C Ratio	0.003	-	-	0.003	0.745	0.01	-	-
HCM Control Delay (s)	7.4	0	-	9.8	21.8	7.7	0	-
HCM Lane LOS	A	A	-	A	C	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0	6.9	0	-	-

Intersection	
Int Delay, s/veh	0.4

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	0	29	524	566	26	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	32	570	615	28	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	1185	0	-	0	909	877
Stage 1	-	-	-	-	877	-
Stage 2	-	-	-	-	32	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	562	-	-	-	295	336
Stage 1	-	-	-	-	394	-
Stage 2	-	-	-	-	970	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	562	-	-	-	295	336
Mov Cap-2 Maneuver	-	-	-	-	295	-
Stage 1	-	-	-	-	394	-
Stage 2	-	-	-	-	970	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	18.5
HCM LOS			C

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	562	-	-	-	295
HCM Lane V/C Ratio	-	-	-	-	0.096
HCM Control Delay (s)	0	-	-	-	18.5
HCM Lane LOS	A	-	-	-	C
HCM 95th %tile Q(veh)	0	-	-	-	0.3

Intersection	
Intersection Delay, s/veh	20
Intersection LOS	C

Movement	EBU	EBL	EBR	NBU	NBL	NBT	SBU	SBT	SBR
Vol, veh/h	0	36	78	0	367	109	0	273	217
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	39	85	0	399	118	0	297	236
Number of Lanes	0	1	0	0	0	1	0	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	1	1
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	1	1	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	1	0	1
HCM Control Delay	10.9	23.1	19.1
HCM LOS	B	C	C

Lane	NBLn1	EBLn1	SBLn1
Vol Left, %	77%	32%	0%
Vol Thru, %	23%	0%	56%
Vol Right, %	0%	68%	44%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	476	114	490
LT Vol	367	36	0
Through Vol	109	0	273
RT Vol	0	78	217
Lane Flow Rate	517	124	533
Geometry Grp	1	1	1
Degree of Util (X)	0.761	0.213	0.711
Departure Headway (Hd)	5.293	6.202	4.926
Convergence, Y/N	Yes	Yes	Yes
Cap	688	580	740
Service Time	3.304	4.224	2.926
HCM Lane V/C Ratio	0.751	0.214	0.72
HCM Control Delay	23.1	10.9	19.1
HCM Lane LOS	C	B	C
HCM 95th-tile Q	7.1	0.8	6

Intersection	
Intersection Delay, s/veh	51.6
Intersection LOS	F

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Vol, veh/h	0	10	61	9	0	209	465	47	0	0	139	39	0	15	393	59
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	11	66	10	0	227	505	51	0	0	151	42	0	16	427	64
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	12.9	65.1	15.3	51.2
HCM LOS	B	F	C	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	12%	29%	3%
Vol Thru, %	78%	76%	64%	84%
Vol Right, %	22%	11%	7%	13%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	178	80	721	467
LT Vol	0	10	209	15
Through Vol	139	61	465	393
RT Vol	39	9	47	59
Lane Flow Rate	193	87	784	508
Geometry Grp	1	1	1	1
Degree of Util (X)	0.397	0.192	1	0.94
Departure Headway (Hd)	7.39	7.941	6.719	6.669
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	486	450	541	543
Service Time	5.449	6.026	4.797	4.708
HCM Lane V/C Ratio	0.397	0.193	1.449	0.936
HCM Control Delay	15.3	12.9	65.1	51.2
HCM Lane LOS	C	B	F	F
HCM 95th-tile Q	1.9	0.7	14.1	11.9

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	0	0	0	154	77	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	0	0	167	84	0

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	251	84	84	0	-	0
Stage 1	84	-	-	-	-	-
Stage 2	167	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	720	954	1464	-	-	-
Stage 1	919	-	-	-	-	-
Stage 2	843	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	720	954	1464	-	-	-
Mov Cap-2 Maneuver	720	-	-	-	-	-
Stage 1	919	-	-	-	-	-
Stage 2	843	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	0	0	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1464	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	0	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	-	-	-

Intersection	
Int Delay, s/veh	126.2

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	163	239	127	580	426	68
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	177	260	138	630	463	74

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1407	500	537	0	-	0
Stage 1	500	-	-	-	-	-
Stage 2	907	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	~ 147	555	992	-	-	-
Stage 1	593	-	-	-	-	-
Stage 2	381	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	~ 116	555	992	-	-	-
Mov Cap-2 Maneuver	~ 116	-	-	-	-	-
Stage 1	593	-	-	-	-	-
Stage 2	299	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	$ 500.1	1.7	0
HCM LOS	F		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	992	-	219	-	-
HCM Lane V/C Ratio	0.139	-	1.995	-	-
HCM Control Delay (s)	9.2	$	500.1	-	-
HCM Lane LOS	A	A	F	-	-
HCM 95th %tile Q(veh)	0.5	-	32.3	-	-

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Intersection	
Intersection Delay, s/veh	7
Intersection LOS	A

Movement	EBU	EBL	EBR	NBU	NBL	NBT	SBU	SBT	SBR
Vol, veh/h	0	4	3	0	7	0	0	2	8
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	4	3	0	8	0	0	2	9
Number of Lanes	0	1	0	0	0	1	0	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	1	1
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	1	1	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	1	0	1
HCM Control Delay	7	7.3	6.7
HCM LOS	A	A	A

Lane	NBLn1	EBLn1	SBLn1
Vol Left, %	100%	57%	0%
Vol Thru, %	0%	0%	20%
Vol Right, %	0%	43%	80%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	7	7	10
LT Vol	7	4	0
Through Vol	0	0	2
RT Vol	0	3	8
Lane Flow Rate	8	8	11
Geometry Grp	1	1	1
Degree of Util (X)	0.009	0.008	0.011
Departure Headway (Hd)	4.292	3.96	3.61
Convergence, Y/N	Yes	Yes	Yes
Cap	838	908	997
Service Time	2.295	1.966	1.613
HCM Lane V/C Ratio	0.01	0.009	0.011
HCM Control Delay	7.3	7	6.7
HCM Lane LOS	A	A	A
HCM 95th-tile Q	0	0	0

Intersection	
Int Delay, s/veh	0.1

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	0	0	11	358	217	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	0	12	389	236	1

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	649	236	237	0	-	0
Stage 1	236	-	-	-	-	-
Stage 2	413	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	422	784	1284	-	-	-
Stage 1	785	-	-	-	-	-
Stage 2	651	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	417	784	1284	-	-	-
Mov Cap-2 Maneuver	417	-	-	-	-	-
Stage 1	785	-	-	-	-	-
Stage 2	643	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	0	0.2	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1284	-	-	-	-
HCM Lane V/C Ratio	0.009	-	-	-	-
HCM Control Delay (s)	7.8	0	0	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	-	-	-

Intersection	
Int Delay, s/veh	21.2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	263	53	156	26	17	560
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	286	58	170	28	18	609

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	830	184	0	0	198	0
Stage 1	184	-	-	-	-	-
Stage 2	646	-	-	-	-	-
Critical Hdwy	6.5	6.3	-	-	4.2	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	-	-	2.29	-
Pot Cap-1 Maneuver	329	838	-	-	1328	-
Stage 1	829	-	-	-	-	-
Stage 2	507	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	322	838	-	-	1328	-
Mov Cap-2 Maneuver	322	-	-	-	-	-
Stage 1	829	-	-	-	-	-
Stage 2	497	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	71.7	0	0.2
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	359	1328	-
HCM Lane V/C Ratio	-	-	0.957	0.014	-
HCM Control Delay (s)	-	-	71.7	7.7	0
HCM Lane LOS	-	-	F	A	A
HCM 95th %tile Q(veh)	-	-	10.4	0	-

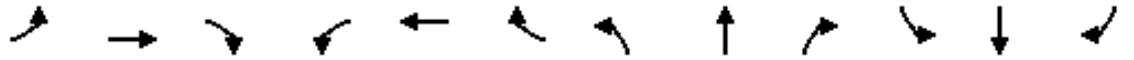
Intersection	
Int Delay, s/veh	0.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	5	294	4	23	1381	15	0	0	4	6	1	10
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	253	-	-	248	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	5	320	4	25	1501	16	0	0	4	7	1	11

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	1517	0	0	324	0	0	1898	1900	322	1894	1894	1509
Stage 1	-	-	-	-	-	-	333	333	-	1559	1559	-
Stage 2	-	-	-	-	-	-	1565	1567	-	335	335	-
Critical Hdwy	4.2	-	-	4.2	-	-	7.2	6.6	6.3	7.2	6.6	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.59	4.09	3.39	3.59	4.09	3.39
Pot Cap-1 Maneuver	418	-	-	1192	-	-	50	66	701	51	67	142
Stage 1	-	-	-	-	-	-	664	630	-	135	166	-
Stage 2	-	-	-	-	-	-	134	165	-	662	628	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	418	-	-	1192	-	-	44	64	701	49	65	142
Mov Cap-2 Maneuver	-	-	-	-	-	-	44	64	-	49	65	-
Stage 1	-	-	-	-	-	-	656	622	-	133	163	-
Stage 2	-	-	-	-	-	-	120	162	-	650	620	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.2	0.1	10.2	61.2
HCM LOS			B	F

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	701	418	-	-	1192	-	-	82
HCM Lane V/C Ratio	0.006	0.013	-	-	0.021	-	-	0.225
HCM Control Delay (s)	10.2	13.7	-	-	8.1	-	-	61.2
HCM Lane LOS	B	B	-	-	A	-	-	F
HCM 95th %tile Q(veh)	0	0	-	-	0.1	-	-	0.8



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	129	135	5	32	630	0	75	13	7	1	96	610
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	140	147	5	35	685	0	82	14	8	1	104	663
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	137	718	24	43	648	0	82	421	240	2	73	464
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.08	0.43	0.43	0.03	0.38	0.00	0.05	0.41	0.41	0.00	0.36	0.36
Ln Grp Delay, s/veh	137.8	0.0	21.4	87.6	89.0	0.0	155.2	0.0	21.4	213.3	0.0	241.8
Ln Grp LOS	F		C	F	F		F		C	F		F
Approach Vol, veh/h		292			720			104			768	
Approach Delay, s/veh		77.2			89.0			126.9			241.8	
Approach LOS		E			F			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	8	7
Case No	2.0	4.0	2.0	4.0	2.0	4.0	4.0	2.0
Phs Duration (G+Y+Rc), s	4.1	52.9	7.1	55.9	10.0	47.0	49.0	14.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	4.0	45.0	7.0	48.0	6.0	43.0	45.0	10.0
Max Allow Headway (MAH), s	4.1	4.3	4.1	4.1	4.1	4.3	4.0	4.1
Max Q Clear (g_c+I1), s	2.1	3.0	4.5	8.6	8.0	45.0	47.0	12.0
Green Ext Time (g_e), s	0.0	4.3	0.0	1.0	0.0	0.0	0.0	0.0
Prob of Phs Call (p_c)	0.03	1.00	0.69	1.00	0.93	1.00	1.00	0.99
Prob of Max Out (p_x)	1.00	0.00	1.00	0.00	1.00	1.00	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt	1		3		5			7
Mvmt Sat Flow, veh/h	1645		1645		1645			1645

Through Movement Data								
Assigned Mvmt		2		4		6	8	
Mvmt Sat Flow, veh/h		1033		1661		203	1727	

Right-Turn Movement Data								
Assigned Mvmt		12		14		16	18	
Mvmt Sat Flow, veh/h		590		56		1295	0	

Left Lane Group Data								
Assigned Mvmt	1	0	3	0	5	0	0	7
Lane Assignment	(Prot)		(Prot)		(Prot)			(Prot)
Lanes in Grp	1	0	1	0	1	0	0	1

Grp Vol (v), veh/h	1	0	35	0	82	0	0	140
Grp Sat Flow (s), veh/h/ln	1645	0	1645	0	1645	0	0	1645
Q Serve Time (g_s), s	0.1	0.0	2.5	0.0	6.0	0.0	0.0	10.0
Cycle Q Clear Time (g_c), s	0.1	0.0	2.5	0.0	6.0	0.0	0.0	10.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	2	0	43	0	82	0	0	137
V/C Ratio (X)	0.56	0.00	0.81	0.00	1.00	0.00	0.00	1.02
Avail Cap (c_a), veh/h	55	0	96	0	82	0	0	137
Upstream Filter (I)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	59.9	0.0	58.1	0.0	57.0	0.0	0.0	55.0
Incr Delay (d2), s/veh	153.4	0.0	29.5	0.0	98.2	0.0	0.0	82.6
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Control Delay (d), s/veh	213.3	0.0	87.6	0.0	155.2	0.0	0.0	137.8
1st-Term Q (Q1), veh/ln	0.0	0.0	1.2	0.0	2.7	0.0	0.0	4.5
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.4	0.0	2.2	0.0	0.0	3.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.1	0.0	1.5	0.0	5.0	0.0	0.0	7.7
%ile Storage Ratio (RQ%)	0.01	0.00	0.21	0.00	2.19	0.00	0.00	0.80
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	8	0
Lane Assignment							T	
Lanes in Grp	0	0	0	0	0	0	1	0
Grp Vol (v), veh/h	0	0	0	0	0	0	685	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	1727	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	45.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	45.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	648	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	1.06	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	0	648	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	37.5	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	51.5	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	89.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	21.4	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	9.3	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	30.7	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	9.3	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	18	0
Lane Assignment		T+R		T+R		T+R		
Lanes in Grp	0	1	0	1	0	1	0	0
Grp Vol (v), veh/h	0	22	0	152	0	767	0	0
Grp Sat Flow (s), veh/h/ln	0	1623	0	1717	0	1499	0	0
Q Serve Time (g_s), s	0.0	1.0	0.0	6.6	0.0	43.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	1.0	0.0	6.6	0.0	43.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.36	0.00	0.03	0.00	0.86	0.00	0.00
Lane Grp Cap (c), veh/h	0	661	0	742	0	537	0	0
V/C Ratio (X)	0.00	0.03	0.00	0.20	0.00	1.43	0.00	0.00
Avail Cap (c_a), veh/h	0	661	0	742	0	537	0	0
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	21.4	0.0	21.2	0.0	38.5	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.1	0.0	203.3	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	21.4	0.0	21.4	0.0	241.8	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.4	0.0	3.1	0.0	17.8	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	30.3	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.4	0.0	3.2	0.0	48.1	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.01	0.00	0.19	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	57.5	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	151.5
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	129	135	5	32	630	0	75	13	7	1	96	610
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	140	147	5	35	685	0	82	14	8	1	104	663
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	137	718	24	43	648	0	82	421	240	2	73	464
Arrive On Green	0.08	0.43	0.43	0.03	0.38	0.00	0.05	0.41	0.41	0.00	0.36	0.36
Sat Flow, veh/h	1645	1661	56	1645	1727	0	1645	1033	590	1645	203	1295
Grp Volume(v), veh/h	140	0	152	35	685	0	82	0	22	1	0	767
Grp Sat Flow(s),veh/h/ln	1645	0	1717	1645	1727	0	1645	0	1623	1645	0	1499
Q Serve(g_s), s	10.0	0.0	6.6	2.5	45.0	0.0	6.0	0.0	1.0	0.1	0.0	43.0
Cycle Q Clear(g_c), s	10.0	0.0	6.6	2.5	45.0	0.0	6.0	0.0	1.0	0.1	0.0	43.0
Prop In Lane	1.00		0.03	1.00		0.00	1.00		0.36	1.00		0.86
Lane Grp Cap(c), veh/h	137	0	742	43	648	0	82	0	661	2	0	537
V/C Ratio(X)	1.02	0.00	0.20	0.81	1.06	0.00	1.00	0.00	0.03	0.56	0.00	1.43
Avail Cap(c_a), veh/h	137	0	742	96	648	0	82	0	661	55	0	537
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	55.0	0.0	21.2	58.1	37.5	0.0	57.0	0.0	21.4	59.9	0.0	38.5
Incr Delay (d2), s/veh	82.6	0.0	0.1	29.5	51.5	0.0	98.2	0.0	0.0	153.4	0.0	203.3
Initial Q Delay(d3),s/veh	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.7	0.0	3.2	1.5	30.7	0.0	5.0	0.0	0.4	0.1	0.0	48.1
LnGrp Delay(d),s/veh	137.8	0.0	21.4	87.6	89.0	0.0	155.2	0.0	21.4	213.3	0.0	241.8
LnGrp LOS	F		C	F	F		F		C	F		F
Approach Vol, veh/h		292			720			104			768	
Approach Delay, s/veh		77.2			89.0			126.9			241.8	
Approach LOS		E			F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	4.1	52.9	7.1	55.9	10.0	47.0	14.0	49.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax),s	0	45.0	7.0	48.0	6.0	43.0	10.0	45.0
Max Q Clear Time (g_c+I1),s	2	3.0	4.5	8.6	8.0	45.0	12.0	47.0
Green Ext Time (p_c), s	0.0	4.3	0.0	1.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	151.5
HCM 2010 LOS	F

Intersection	
Int Delay, s/veh	1.5

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	108	312	978	5	1	38
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	Yield
Storage Length	90	-	-	-	0	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	117	339	1063	5	1	41

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	1068	0	-	0	1640	1066
Stage 1	-	-	-	-	1066	-
Stage 2	-	-	-	-	574	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	623	-	-	-	105	261
Stage 1	-	-	-	-	320	-
Stage 2	-	-	-	-	548	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	623	-	-	-	85	261
Mov Cap-2 Maneuver	-	-	-	-	85	-
Stage 1	-	-	-	-	320	-
Stage 2	-	-	-	-	445	-

Approach	EB	WB	SB
HCM Control Delay, s	3.1	0	22.1
HCM LOS			C

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1	SBLn2
Capacity (veh/h)	623	-	-	-	85	261
HCM Lane V/C Ratio	0.188	-	-	-	0.013	0.158
HCM Control Delay (s)	12.1	-	-	-	47.9	21.4
HCM Lane LOS	B	-	-	-	E	C
HCM 95th %tile Q(veh)	0.7	-	-	-	0	0.6

Intersection	
Intersection Delay, s/veh	9.1
Intersection LOS	A

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	1	27	13	0	1	23	25	0	7	71	2
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	1	29	14	0	1	25	27	0	8	77	2
Number of Lanes	0	1	1	0	0	0	1	1	0	1	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	2	2	2
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	2	2	2
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	2	2	2
HCM Control Delay	8.5	8.2	8.5
HCM LOS	A	A	A

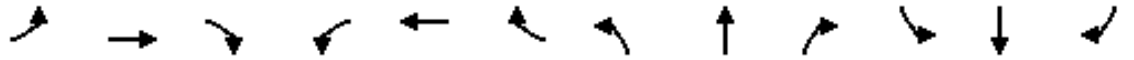
Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1	SBLn2
Vol Left, %	100%	0%	100%	0%	4%	0%	100%	0%
Vol Thru, %	0%	97%	0%	68%	96%	0%	0%	99%
Vol Right, %	0%	3%	0%	33%	0%	100%	0%	1%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	7	73	1	40	24	25	42	197
LT Vol	7	0	1	0	1	0	42	0
Through Vol	0	71	0	27	23	0	0	196
RT Vol	0	2	0	13	0	25	0	1
Lane Flow Rate	8	79	1	43	26	27	46	214
Geometry Grp	7	7	7	7	7	7	7	7
Degree of Util (X)	0.012	0.113	0.002	0.065	0.041	0.037	0.07	0.297
Departure Headway (Hd)	5.663	5.142	6.11	5.378	5.619	4.894	5.506	5.001
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	633	698	587	667	638	732	652	719
Service Time	3.388	2.867	3.837	3.105	3.346	2.62	3.226	2.721
HCM Lane V/C Ratio	0.013	0.113	0.002	0.064	0.041	0.037	0.071	0.298
HCM Control Delay	8.5	8.5	8.8	8.5	8.6	7.8	8.6	9.8
HCM Lane LOS	A	A	A	A	A	A	A	A
HCM 95th-tile Q	0	0.4	0	0.2	0.1	0.1	0.2	1.2

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	42	196	1
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10
Mvmt Flow	0	46	213	1
Number of Lanes	0	1	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	2
Conflicting Approach Left	WB
Conflicting Lanes Left	2
Conflicting Approach Right	EB
Conflicting Lanes Right	2
HCM Control Delay	9.6
HCM LOS	A

Lane



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	18	73	0	11	47	9	0	99	17	93	266	42
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	20	79	0	12	51	10	0	108	18	101	289	46
Adj No. of Lanes	1	1	0	1	1	0	1	2	1	1	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	36	118	0	19	81	16	2	192	86	1126	2583	1156
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.02	0.07	0.00	0.01	0.06	0.06	0.00	0.06	0.06	0.68	0.79	0.79
Ln Grp Delay, s/veh	56.3	47.4	0.0	74.3	0.0	48.0	0.0	52.7	37.7	4.8	2.3	0.5
Ln Grp LOS	E	D		E		D		D	D	A	A	A
Approach Vol, veh/h		99			73			126			436	
Approach Delay, s/veh		49.2			52.3			50.6			2.7	
Approach LOS		D			D			D			A	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	5	6	8	7
Case No	3.0	2.0	2.0	4.0	2.0	3.0	4.0	2.0
Phs Duration (G+Y+Rc), s	9.3	65.6	5.0	10.1	0.0	74.8	9.2	6.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	23.0	18.0	10.0	23.0	10.0	31.0	22.0	11.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.0	0.0	4.1	4.1	4.0
Max Q Clear (g_c+I1), s	4.9	3.9	2.7	6.0	0.0	3.9	5.2	3.1
Green Ext Time (g_e), s	0.4	1.4	0.0	0.2	0.0	1.7	0.1	0.1
Prob of Phs Call (p_c)	1.00	0.92	0.26	0.98	0.00	1.00	0.98	0.39
Prob of Max Out (p_x)	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.02

Left-Turn Movement Data								
Assigned Mvmt		1	3		5			7
Mvmt Sat Flow, veh/h		1645	1645		1645			1645

Through Movement Data								
Assigned Mvmt	2			4		6	8	
Mvmt Sat Flow, veh/h	3282			1727		3282	1404	

Right-Turn Movement Data								
Assigned Mvmt	12			14		16	18	
Mvmt Sat Flow, veh/h	1468			0		1468	275	

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	5	0	0	7
Lane Assignment		(Prot)	(Prot)		(Prot)			(Prot)
Lanes in Grp	0	1	1	0	1	0	0	1

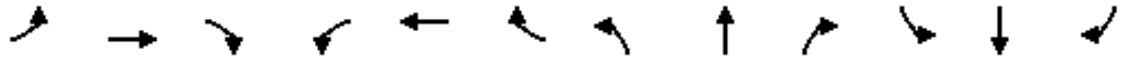
Grp Vol (v), veh/h	0	101	12	0	0	0	0	20
Grp Sat Flow (s), veh/h/ln	0	1645	1645	0	1645	0	0	1645
Q Serve Time (g_s), s	0.0	1.9	0.7	0.0	0.0	0.0	0.0	1.1
Cycle Q Clear Time (g_c), s	0.0	1.9	0.7	0.0	0.0	0.0	0.0	1.1
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	1126	19	0	2	0	0	36
V/C Ratio (X)	0.00	0.09	0.63	0.00	0.00	0.00	0.00	0.56
Avail Cap (c_a), veh/h	0	1126	183	0	183	0	0	201
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	4.8	44.3	0.0	0.0	0.0	0.0	43.6
Incr Delay (d2), s/veh	0.0	0.0	30.0	0.0	0.0	0.0	0.0	12.7
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	4.8	74.3	0.0	0.0	0.0	0.0	56.3
1st-Term Q (Q1), veh/ln	0.0	0.8	0.3	0.0	0.0	0.0	0.0	0.5
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.9	0.5	0.0	0.0	0.0	0.0	0.6
%ile Storage Ratio (RQ%)	0.00	0.10	0.07	0.00	0.00	0.00	0.00	0.19
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	0	6	8	0
Lane Assignment	T			T		T		
Lanes in Grp	2	0	0	1	0	2	0	0
Grp Vol (v), veh/h	108	0	0	79	0	289	0	0
Grp Sat Flow (s), veh/h/ln	1641	0	0	1727	0	1641	0	0
Q Serve Time (g_s), s	2.9	0.0	0.0	4.0	0.0	1.9	0.0	0.0
Cycle Q Clear Time (g_c), s	2.9	0.0	0.0	4.0	0.0	1.9	0.0	0.0
Lane Grp Cap (c), veh/h	192	0	0	118	0	2583	0	0
V/C Ratio (X)	0.56	0.00	0.00	0.67	0.00	0.11	0.00	0.00
Avail Cap (c_a), veh/h	839	0	0	441	0	2583	0	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00
Uniform Delay (d1), s/veh	41.3	0.0	0.0	41.0	0.0	2.2	0.0	0.0
Incr Delay (d2), s/veh	11.5	0.0	0.0	6.5	0.0	0.1	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	52.7	0.0	0.0	47.4	0.0	2.3	0.0	0.0
1st-Term Q (Q1), veh/ln	1.3	0.0	0.0	1.9	0.0	0.8	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.3	0.0	0.0	0.2	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	1.6	0.0	0.0	2.1	0.0	0.8	0.0	0.0
%ile Storage Ratio (RQ%)	0.05	0.00	0.00	0.09	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	0	14	0	16	18	0
Lane Assignment	R					R	T+R	
Lanes in Grp	1	0	0	0	0	1	1	0
Grp Vol (v), veh/h	18	0	0	0	0	46	61	0
Grp Sat Flow (s), veh/h/ln	1468	0	0	0	0	1468	1679	0
Q Serve Time (g_s), s	0.9	0.0	0.0	0.0	0.0	0.3	3.2	0.0
Cycle Q Clear Time (g_c), s	0.9	0.0	0.0	0.0	0.0	0.3	3.2	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	0.00	0.00	1.00	0.16	0.00
Lane Grp Cap (c), veh/h	86	0	0	0	0	1156	97	0
V/C Ratio (X)	0.21	0.00	0.00	0.00	0.00	0.04	0.63	0.00
Avail Cap (c_a), veh/h	375	0	0	0	0	1156	410	0
Upstream Filter (I)	1.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00
Uniform Delay (d1), s/veh	32.2	0.0	0.0	0.0	0.0	0.5	41.5	0.0
Incr Delay (d2), s/veh	5.5	0.0	0.0	0.0	0.0	0.1	6.6	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	37.7	0.0	0.0	0.0	0.0	0.5	48.0	0.0
1st-Term Q (Q1), veh/ln	0.4	0.0	0.0	0.0	0.0	0.1	1.5	0.0
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.5	0.0	0.0	0.0	0.0	0.1	1.7	0.0
%ile Storage Ratio (RQ%)	0.08	0.00	0.00	0.00	0.00	0.09	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	22.1
HCM 2010 LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	18	73	0	11	47	9	0	99	17	93	266	42
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	20	79	0	12	51	10	0	108	18	101	289	46
Adj No. of Lanes	1	1	0	1	1	0	1	2	1	1	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	36	118	0	19	81	16	2	192	86	1126	2583	1156
Arrive On Green	0.02	0.07	0.00	0.01	0.06	0.06	0.00	0.06	0.06	0.68	0.79	0.79
Sat Flow, veh/h	1645	1727	0	1645	1404	275	1645	3282	1468	1645	3282	1468
Grp Volume(v), veh/h	20	79	0	12	0	61	0	108	18	101	289	46
Grp Sat Flow(s),veh/h/ln	1645	1727	0	1645	0	1679	1645	1641	1468	1645	1641	1468
Q Serve(g_s), s	1.1	4.0	0.0	0.7	0.0	3.2	0.0	2.9	0.9	1.9	1.9	0.3
Cycle Q Clear(g_c), s	1.1	4.0	0.0	0.7	0.0	3.2	0.0	2.9	0.9	1.9	1.9	0.3
Prop In Lane	1.00		0.00	1.00		0.16	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	36	118	0	19	0	97	2	192	86	1126	2583	1156
V/C Ratio(X)	0.56	0.67	0.00	0.63	0.00	0.63	0.00	0.56	0.21	0.09	0.11	0.04
Avail Cap(c_a), veh/h	201	441	0	183	0	410	183	839	375	1126	2583	1156
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	43.6	41.0	0.0	44.3	0.0	41.5	0.0	41.3	32.2	4.8	2.2	0.5
Incr Delay (d2), s/veh	12.7	6.5	0.0	30.0	0.0	6.6	0.0	11.5	5.5	0.0	0.1	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.6	2.1	0.0	0.5	0.0	1.7	0.0	1.6	0.5	0.9	0.8	0.1
LnGrp Delay(d),s/veh	56.3	47.4	0.0	74.3	0.0	48.0	0.0	52.7	37.7	4.8	2.3	0.5
LnGrp LOS	E	D		E		D		D	D	A	A	A
Approach Vol, veh/h		99			73			126			436	
Approach Delay, s/veh		49.2			52.3			50.6			2.7	
Approach LOS		D			D			D			A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	65.6	9.3	5.0	10.1	0.0	74.8	6.0	9.2
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	18.0	23.0	10.0	23.0	10.0	31.0	11.0	22.0
Max Q Clear Time (g_c+I1), s	3.9	4.9	2.7	6.0	0.0	3.9	3.1	5.2
Green Ext Time (p_c), s	1.4	0.4	0.0	0.2	0.0	1.7	0.1	0.1

Intersection Summary	
HCM 2010 Ctrl Delay	22.1
HCM 2010 LOS	C

Intersection	
Int Delay, s/veh	0.4

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	0	13	0	71	199	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	28	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	14	0	77	216	0

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	293	216	216	0	-	0
Stage 1	216	-	-	-	-	-
Stage 2	77	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	681	804	1308	-	-	-
Stage 1	801	-	-	-	-	-
Stage 2	926	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	681	804	1308	-	-	-
Mov Cap-2 Maneuver	681	-	-	-	-	-
Stage 1	801	-	-	-	-	-
Stage 2	926	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	9.6	0	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1308	-	804	-	-
HCM Lane V/C Ratio	-	-	0.018	-	-
HCM Control Delay (s)	0	-	9.6	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-

Intersection	
Int Delay, s/veh	3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	24	1	21	7	8	13	97	155	20	41	174	247
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	26	1	23	8	9	14	105	168	22	45	189	268

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	815	814	323	814	937	179	458	0	0	190	0	0
Stage 1	413	413	-	390	390	-	-	-	-	-	-	-
Stage 2	402	401	-	424	547	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.2	6.6	6.3	4.2	-	-	4.2	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.59	4.09	3.39	2.29	-	-	2.29	-	-
Pot Cap-1 Maneuver	287	303	700	287	257	844	1062	-	-	1337	-	-
Stage 1	601	580	-	618	594	-	-	-	-	-	-	-
Stage 2	609	587	-	592	505	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	242	257	700	244	218	844	1062	-	-	1337	-	-
Mov Cap-2 Maneuver	242	257	-	244	218	-	-	-	-	-	-	-
Stage 1	534	553	-	549	528	-	-	-	-	-	-	-
Stage 2	524	522	-	545	481	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	17.2	16.4	3.1	0.7
HCM LOS	C	C		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1062	-	-	346	347	1337	-	-
HCM Lane V/C Ratio	0.099	-	-	0.145	0.088	0.033	-	-
HCM Control Delay (s)	8.8	0	-	17.2	16.4	7.8	0	-
HCM Lane LOS	A	A	-	C	C	A	A	-
HCM 95th %tile Q(veh)	0.3	-	-	0.5	0.3	0.1	-	-

Intersection	
Intersection Delay, s/veh	15.7
Intersection LOS	C

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	11	10	16	0	174	20	373	0	16	163	26
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	12	11	17	0	189	22	405	0	17	177	28
Number of Lanes	0	0	1	0	0	0	1	1	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	2	1	1
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	1	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	1	2
HCM Control Delay	10.3	16.7	13.2
HCM LOS	B	C	B

Lane	NBLn1	EBLn1	WBLn1	WBLn2	SBLn1
Vol Left, %	8%	30%	90%	0%	24%
Vol Thru, %	80%	27%	10%	0%	76%
Vol Right, %	13%	43%	0%	100%	1%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	205	37	194	373	286
LT Vol	16	11	174	0	68
Through Vol	163	10	20	0	216
RT Vol	26	16	0	373	2
Lane Flow Rate	223	40	211	405	311
Geometry Grp	2	5	7	7	2
Degree of Util (X)	0.387	0.075	0.4	0.638	0.533
Departure Headway (Hd)	6.25	6.671	6.835	5.668	6.176
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	573	533	525	637	581
Service Time	4.317	4.765	4.592	3.425	4.235
HCM Lane V/C Ratio	0.389	0.075	0.402	0.636	0.535
HCM Control Delay	13.2	10.3	14.1	18	16.1
HCM Lane LOS	B	B	B	C	C
HCM 95th-tile Q	1.8	0.2	1.9	4.6	3.1

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	68	216	2
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10
Mvmt Flow	0	74	235	2
Number of Lanes	0	0	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	2
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	16.1
HCM LOS	C

Lane



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Volume (veh/h)	130	9	25	284	292	716
Number	7	14	5	2	6	16
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00	1.00	1.00			1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1900	1727	1727	1727	1727
Adj Flow Rate, veh/h	141	10	27	309	317	778
Adj No. of Lanes	0	0	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	10	10	10	10
Opposing Right Turn Influence	Yes		Yes			
Cap, veh/h	172	12	331	1378	953	810
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.11	0.11	0.20	0.80	0.55	0.55
Ln Grp Delay, s/veh	47.6	0.0	29.3	2.6	12.0	42.5
Ln Grp LOS	D		C	A	B	D
Approach Vol, veh/h	152			336	1095	
Approach Delay, s/veh	47.6			4.8	33.7	
Approach LOS	D			A	C	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2		4	6	5		
Case No		4.0		12.0	7.0	2.0		
Phs Duration (G+Y+Rc), s		75.8		14.2	53.7	22.1		
Change Period (Y+Rc), s		4.0		4.0	4.0	4.0		
Max Green (Gmax), s		64.0		18.0	52.0	8.0		
Max Allow Headway (MAH), s		4.0		4.1	4.3	4.0		
Max Q Clear (g_c+I1), s		6.0		10.2	47.5	3.2		
Green Ext Time (g_e), s		1.2		0.3	2.2	0.5		
Prob of Phs Call (p_c)		1.00		0.98	1.00	0.49		
Prob of Max Out (p_x)		0.00		0.05	0.96	0.66		

Left-Turn Movement Data								
Assigned Mvmt				7	1	5		
Mvmt Sat Flow, veh/h				1514	0	1645		

Through Movement Data								
Assigned Mvmt		2		4	6			
Mvmt Sat Flow, veh/h		1727		11	1727			

Right-Turn Movement Data								
Assigned Mvmt		12		14	16			
Mvmt Sat Flow, veh/h		0		107	1468			

Left Lane Group Data								
Assigned Mvmt	0	0	0	7	1	5	0	0
Lane Assignment				L+T+R		(Prot)		
Lanes in Grp	0	0	0	1	0	1	0	0

Grp Vol (v), veh/h	0	0	0	152	0	27	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1633	0	1645	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	8.2	0.0	1.2	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	8.2	0.0	1.2	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	49.7	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.00	0.00	0.93	0.00	1.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	0	0	185	0	331	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.82	0.00	0.08	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	327	0	331	0	0
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	39.0	0.0	29.2	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	8.6	0.0	0.1	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	47.6	0.0	29.3	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	3.7	0.0	0.5	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	4.1	0.0	0.6	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.01	0.00	0.13	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	6	0	0	0
Lane Assignment		T			T			
Lanes in Grp	0	1	0	0	1	0	0	0
Grp Vol (v), veh/h	0	309	0	0	317	0	0	0
Grp Sat Flow (s), veh/h/ln	0	1727	0	0	1727	0	0	0
Q Serve Time (g_s), s	0.0	4.0	0.0	0.0	9.1	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	4.0	0.0	0.0	9.1	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	1378	0	0	953	0	0	0
V/C Ratio (X)	0.00	0.22	0.00	0.00	0.33	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	1378	0	0	998	0	0	0
Upstream Filter (I)	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	2.2	0.0	0.0	11.1	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.4	0.0	0.0	0.9	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	2.6	0.0	0.0	12.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	1.9	0.0	0.0	4.3	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	2.0	0.0	0.0	4.6	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.01	0.00	0.00	0.07	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	16	0	0	0
Lane Assignment					R			
Lanes in Grp	0	0	0	0	1	0	0	0
Grp Vol (v), veh/h	0	0	0	0	778	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	1468	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	45.5	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	45.5	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.00	0.00	0.07	1.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	0	0	0	810	0	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.96	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	0	848	0	0	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	19.2	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	23.3	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	42.5	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	18.2	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	23.4	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	12.89	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	28.9
HCM 2010 LOS	C

Notes

User approved volume balancing among the lanes for turning movement.



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Volume (veh/h)	130	9	25	284	292	716
Number	7	14	5	2	6	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00			1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1900	1727	1727	1727	1727
Adj Flow Rate, veh/h	141	10	27	309	317	778
Adj No. of Lanes	0	0	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	10	10	10	10
Cap, veh/h	172	12	331	1378	953	810
Arrive On Green	0.11	0.11	0.20	0.80	0.55	0.55
Sat Flow, veh/h	1514	107	1645	1727	1727	1468
Grp Volume(v), veh/h	152	0	27	309	317	778
Grp Sat Flow(s),veh/h/ln	1633	0	1645	1727	1727	1468
Q Serve(g_s), s	8.2	0.0	1.2	4.0	9.1	45.5
Cycle Q Clear(g_c), s	8.2	0.0	1.2	4.0	9.1	45.5
Prop In Lane	0.93	0.07	1.00			1.00
Lane Grp Cap(c), veh/h	185	0	331	1378	953	810
V/C Ratio(X)	0.82	0.00	0.08	0.22	0.33	0.96
Avail Cap(c_a), veh/h	327	0	331	1378	998	848
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	39.0	0.0	29.2	2.2	11.1	19.2
Incr Delay (d2), s/veh	8.6	0.0	0.1	0.4	0.9	23.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.1	0.0	0.6	2.0	4.6	23.4
LnGrp Delay(d),s/veh	47.6	0.0	29.3	2.6	12.0	42.5
LnGrp LOS	D		C	A	B	D
Approach Vol, veh/h	152			336	1095	
Approach Delay, s/veh	47.6			4.8	33.7	
Approach LOS	D			A	C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4	5	6		
Phs Duration (G+Y+Rc), s		75.8		14.2	22.1	53.7		
Change Period (Y+Rc), s		4.0		4.0	4.0	4.0		
Max Green Setting (Gmax), s		64.0		18.0	8.0	52.0		
Max Q Clear Time (g_c+I1), s		6.0		10.2	3.2	47.5		
Green Ext Time (p_c), s		1.2		0.3	0.5	2.2		

Intersection Summary	
HCM 2010 Ctrl Delay	28.9
HCM 2010 LOS	C

Notes

User approved volume balancing among the lanes for turning movement.

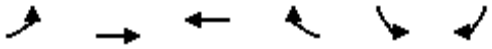
Intersection	
Int Delay, s/veh	1.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	49	331	0	0	1247	216	0	1	1	8	0	8
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	200	-	-	200	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	53	360	0	0	1355	235	0	1	1	9	0	9

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	1590	0	0	360	0	0	1943	2056	360	1940	1939	1473
Stage 1	-	-	-	-	-	-	466	466	-	1473	1473	-
Stage 2	-	-	-	-	-	-	1477	1590	-	467	466	-
Critical Hdwy	4.2	-	-	4.2	-	-	7.2	6.6	6.3	7.2	6.6	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.59	4.09	3.39	3.59	4.09	3.39
Pot Cap-1 Maneuver	391	-	-	1156	-	-	47	53	667	47	62	149
Stage 1	-	-	-	-	-	-	562	549	-	151	183	-
Stage 2	-	-	-	-	-	-	151	160	-	561	549	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	391	-	-	1156	-	-	40	46	667	41	54	149
Mov Cap-2 Maneuver	-	-	-	-	-	-	40	46	-	41	54	-
Stage 1	-	-	-	-	-	-	486	475	-	131	183	-
Stage 2	-	-	-	-	-	-	142	160	-	483	475	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	2	0	47.9	81
HCM LOS			E	F

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	86	391	-	-	1156	-	-	64
HCM Lane V/C Ratio	0.025	0.136	-	-	-	-	-	0.272
HCM Control Delay (s)	47.9	15.7	-	-	0	-	-	81
HCM Lane LOS	E	C	-	-	A	-	-	F
HCM 95th %tile Q(veh)	0.1	0.5	-	-	0	-	-	1



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (veh/h)	32	100	777	36	29	2
Number	7	4	8	18	1	16
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00			1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900
Adj Flow Rate, veh/h	35	109	845	39	32	2
Adj No. of Lanes	1	1	1	1	0	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	0	0
Opposing Right Turn Influence	Yes				Yes	
Cap, veh/h	381	1085	1085	922	185	12
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.63	0.63	0.63	0.63	0.12	0.12
Ln Grp Delay, s/veh	9.2	2.4	5.6	2.3	13.1	0.0
Ln Grp LOS	A	A	A	A	B	
Approach Vol, veh/h		144	884		35	
Approach Delay, s/veh		4.1	5.5		13.1	
Approach LOS		A	A		B	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	6			4				8
Case No	12.0			6.0				7.0
Phs Duration (G+Y+Rc), s	8.0			24.3				24.3
Change Period (Y+Rc), s	4.0			4.0				4.0
Max Green (Gmax), s	18.0			64.0				64.0
Max Allow Headway (MAH), s	4.1			4.1				4.1
Max Q Clear (g_c+I1), s	2.6			15.0				13.5
Green Ext Time (g_e), s	0.0			5.3				5.3
Prob of Phs Call (p_c)	1.00			1.00				1.00
Prob of Max Out (p_x)	0.00			0.00				0.00

Left-Turn Movement Data								
Assigned Mvmt	1			7				3
Mvmt Sat Flow, veh/h	1496			580				0

Through Movement Data								
Assigned Mvmt	6			4				8
Mvmt Sat Flow, veh/h	47			1727				1727

Right-Turn Movement Data								
Assigned Mvmt	16			14				18
Mvmt Sat Flow, veh/h	93			0				1468

Left Lane Group Data								
Assigned Mvmt	1	0	0	7	0	0	0	3
Lane Assignment	L+T+R							
Lanes in Grp	1	0	0	1	0	0	0	0

Grp Vol (v), veh/h	35	0	0	35	0	0	0	0
Grp Sat Flow (s), veh/h/ln	1636	0	0	580	0	0	0	0
Q Serve Time (g_s), s	0.6	0.0	0.0	1.5	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.6	0.0	0.0	13.0	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	580	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	20.3	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	8.8	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.3
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.91	0.00	0.00	1.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	203	0	0	381	0	0	0	0
V/C Ratio (X)	0.17	0.00	0.00	0.09	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	912	0	0	1167	0	0	0	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	12.7	0.0	0.0	9.1	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.4	0.0	0.0	0.1	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	13.1	0.0	0.0	9.2	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.3	0.0	0.0	0.2	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.3	0.0	0.0	0.2	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	6	0	0	4	0	0	0	8
Lane Assignment				T				T
Lanes in Grp	0	0	0	1	0	0	0	1
Grp Vol (v), veh/h	0	0	0	109	0	0	0	845
Grp Sat Flow (s), veh/h/ln	0	0	0	1727	0	0	0	1727
Q Serve Time (g_s), s	0.0	0.0	0.0	0.8	0.0	0.0	0.0	11.5
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.8	0.0	0.0	0.0	11.5
Lane Grp Cap (c), veh/h	0	0	0	1085	0	0	0	1085
V/C Ratio (X)	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.78
Avail Cap (c_a), veh/h	0	0	0	3424	0	0	0	3424
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	2.4	0.0	0.0	0.0	4.4
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	2.4	0.0	0.0	0.0	5.6
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.4	0.0	0.0	0.0	5.2
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4

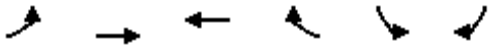
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.4	0.0	0.0	0.0	5.5
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	16	0	0	14	0	0	0	18
Lane Assignment								R
Lanes in Grp	0	0	0	0	0	0	0	1
Grp Vol (v), veh/h	0	0	0	0	0	0	0	39
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	1468
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.06	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	922
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	2911
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	5.5
HCM 2010 LOS	A

Notes

User approved volume balancing among the lanes for turning movement.



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (veh/h)	32	100	777	36	29	2
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900
Adj Flow Rate, veh/h	35	109	845	39	32	2
Adj No. of Lanes	1	1	1	1	0	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	0	0
Cap, veh/h	381	1085	1085	922	185	12
Arrive On Green	0.63	0.63	0.63	0.63	0.12	0.12
Sat Flow, veh/h	580	1727	1727	1468	1496	93
Grp Volume(v), veh/h	35	109	845	39	35	0
Grp Sat Flow(s),veh/h/ln	580	1727	1727	1468	1636	0
Q Serve(g_s), s	1.5	0.8	11.5	0.3	0.6	0.0
Cycle Q Clear(g_c), s	13.0	0.8	11.5	0.3	0.6	0.0
Prop In Lane	1.00			1.00	0.91	0.06
Lane Grp Cap(c), veh/h	381	1085	1085	922	203	0
V/C Ratio(X)	0.09	0.10	0.78	0.04	0.17	0.00
Avail Cap(c_a), veh/h	1167	3424	3424	2911	912	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	9.1	2.4	4.4	2.3	12.7	0.0
Incr Delay (d2), s/veh	0.1	0.0	1.2	0.0	0.4	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.4	5.5	0.1	0.3	0.0
LnGrp Delay(d),s/veh	9.2	2.4	5.6	2.3	13.1	0.0
LnGrp LOS	A	A	A	A	B	
Approach Vol, veh/h		144	884		35	
Approach Delay, s/veh		4.1	5.5		13.1	
Approach LOS		A	A		B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		8
Phs Duration (G+Y+Rc), s				24.3		8.0		24.3
Change Period (Y+Rc), s				4.0		4.0		4.0
Max Green Setting (Gmax), s				64.0		18.0		64.0
Max Q Clear Time (g_c+I1), s				15.0		2.6		13.5
Green Ext Time (p_c), s				5.3		0.0		5.3

Intersection Summary	
HCM 2010 Ctrl Delay	5.5
HCM 2010 LOS	A

Notes

User approved volume balancing among the lanes for turning movement.

Intersection	
Int Delay, s/veh	6.3

Movement	SET	SER	NWL	NWT	NEL	NER
Vol, veh/h	88	37	101	68	0	250
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	96	40	110	74	0	272

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	136	0	409	116
Stage 1	-	-	-	-	116	-
Stage 2	-	-	-	-	293	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	1400	-	584	915
Stage 1	-	-	-	-	889	-
Stage 2	-	-	-	-	739	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1400	-	536	915
Mov Cap-2 Maneuver	-	-	-	-	536	-
Stage 1	-	-	-	-	889	-
Stage 2	-	-	-	-	678	-

Approach	SE	NW	NE
HCM Control Delay, s	0	4.7	10.6
HCM LOS			B

Minor Lane/Major Mvmt	NELn1	NWL	NWT	SET	SER
Capacity (veh/h)	915	1400	-	-	-
HCM Lane V/C Ratio	0.297	0.078	-	-	-
HCM Control Delay (s)	10.6	7.8	0	-	-
HCM Lane LOS	B	A	A	-	-
HCM 95th %tile Q(veh)	1.2	0.3	-	-	-

Intersection	
Int Delay, s/veh	8.2

Movement	EBL	EBT	WBT	WBR	SEL	SER
Vol, veh/h	61	63	433	133	16	316
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	66	68	471	145	17	343

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	615	0	-	0	744	543
Stage 1	-	-	-	-	543	-
Stage 2	-	-	-	-	201	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	927	-	-	-	371	524
Stage 1	-	-	-	-	567	-
Stage 2	-	-	-	-	814	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	927	-	-	-	344	524
Mov Cap-2 Maneuver	-	-	-	-	344	-
Stage 1	-	-	-	-	567	-
Stage 2	-	-	-	-	754	-

Approach	EB	WB	SE
HCM Control Delay, s	4.5	0	23.6
HCM LOS			C

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SELn1	SELn2
Capacity (veh/h)	927	-	-	-	344	524
HCM Lane V/C Ratio	0.072	-	-	-	0.051	0.655
HCM Control Delay (s)	9.2	0	-	-	16	24
HCM Lane LOS	A	A	-	-	C	C
HCM 95th %tile Q(veh)	0.2	-	-	-	0.2	4.7

Intersection	
Int Delay, s/veh	1.6

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	4	13	35	191	44	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	4	14	38	208	48	1

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	246	0	-	0	165	142
Stage 1	-	-	-	-	142	-
Stage 2	-	-	-	-	23	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1275	-	-	-	807	885
Stage 1	-	-	-	-	866	-
Stage 2	-	-	-	-	979	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1275	-	-	-	805	885
Mov Cap-2 Maneuver	-	-	-	-	805	-
Stage 1	-	-	-	-	866	-
Stage 2	-	-	-	-	976	-

Approach	EB	WB	SB
HCM Control Delay, s	1.8	0	9.7
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1275	-	-	-	807
HCM Lane V/C Ratio	0.003	-	-	-	0.061
HCM Control Delay (s)	7.8	0	-	-	9.7
HCM Lane LOS	A	A	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	0.2

Intersection	
Int Delay, s/veh	16.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	7	7	33	4	156	231	60	266	1	29	121	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	170	-	-	162	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	8	8	36	4	170	251	65	289	1	32	132	0

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	825	616	132	636	615	290	132	0	0	290	0	0
Stage 1	195	195	-	420	420	-	-	-	-	-	-	-
Stage 2	630	421	-	216	195	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.2	6.6	6.3	4.2	-	-	4.2	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.59	4.09	3.39	2.29	-	-	2.29	-	-
Pot Cap-1 Maneuver	283	396	896	380	396	731	1405	-	-	1227	-	-
Stage 1	789	725	-	595	576	-	-	-	-	-	-	-
Stage 2	456	575	-	768	725	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	113	368	896	340	368	731	1405	-	-	1227	-	-
Mov Cap-2 Maneuver	113	368	-	340	368	-	-	-	-	-	-	-
Stage 1	752	706	-	567	549	-	-	-	-	-	-	-
Stage 2	197	548	-	710	706	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	15.3	35.9	1.4	1.5
HCM LOS	C	E		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1405	-	-	399	520	1227	-	-
HCM Lane V/C Ratio	0.046	-	-	0.128	0.817	0.026	-	-
HCM Control Delay (s)	7.7	-	-	15.3	35.9	8	-	-
HCM Lane LOS	A	-	-	C	E	A	-	-
HCM 95th %tile Q(veh)	0.1	-	-	0.4	8	0.1	-	-

Intersection	
Intersection Delay, s/veh	8.2
Intersection LOS	A

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	SBU	SBL	SBR
Vol, veh/h	0	0	30	0	0	0	172	0	0	0	2
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	0	33	0	0	0	187	0	0	0	2
Number of Lanes	0	0	1	0	0	0	1	0	0	1	0

Approach	EB	WB
Opposing Approach	WB	EB
Opposing Lanes	1	1
Conflicting Approach Left	SB	
Conflicting Lanes Left	1	0
Conflicting Approach Right		SB
Conflicting Lanes Right	0	1
HCM Control Delay	7.5	8.4
HCM LOS	A	A

Lane	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	0%	94%
Vol Thru, %	100%	100%	0%
Vol Right, %	0%	0%	6%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	30	172	34
LT Vol	0	0	32
Through Vol	30	172	0
RT Vol	0	0	2
Lane Flow Rate	33	187	37
Geometry Grp	1	1	1
Degree of Util (X)	0.039	0.216	0.048
Departure Headway (Hd)	4.276	4.16	4.717
Convergence, Y/N	Yes	Yes	Yes
Cap	828	860	764
Service Time	2.349	2.198	2.717
HCM Lane V/C Ratio	0.04	0.217	0.048
HCM Control Delay	7.5	8.4	8
HCM Lane LOS	A	A	A
HCM 95th-tile Q	0.1	0.8	0.2

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	NWU	NWL	NWR
Vol, veh/h	0	0	0
Peak Hour Factor	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10
Mvmt Flow	0	0	0
Number of Lanes	0	0	0

Approach	
Opposing Approach	
Opposing Lanes	
Conflicting Approach Left	
Conflicting Lanes Left	
Conflicting Approach Right	
Conflicting Lanes Right	
HCM Control Delay	
HCM LOS	

Lane

Intersection	
Int Delay, s/veh	2.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBR	SEL	SER
Vol, veh/h	0	69	0	0	85	0	10	37	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	None	-	-
Storage Length	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	0	-	0	-
Grade, %	-	0	-	-	0	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	75	0	0	92	0	11	40	0	0

Major/Minor	Major1			Major2			Minor1		
Conflicting Flow All	92	0	0	75	0	0	167	75	
Stage 1	-	-	-	-	-	-	75	-	
Stage 2	-	-	-	-	-	-	92	-	
Critical Hdwy	4.2	-	-	4.2	-	-	6.5	6.3	
Critical Hdwy Stg 1	-	-	-	-	-	-	5.5	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	5.5	-	
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.59	3.39	
Pot Cap-1 Maneuver	1454	-	-	1475	-	-	805	965	
Stage 1	-	-	-	-	-	-	928	-	
Stage 2	-	-	-	-	-	-	912	-	
Platoon blocked, %		-	-		-	-			
Mov Cap-1 Maneuver	1454	-	-	1475	-	-	805	965	
Mov Cap-2 Maneuver	-	-	-	-	-	-	805	-	
Stage 1	-	-	-	-	-	-	928	-	
Stage 2	-	-	-	-	-	-	912	-	

Approach	EB	WB	NB
HCM Control Delay, s	0	0	8.9
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR
Capacity (veh/h)	965	1454	-	-	1475	-	-
HCM Lane V/C Ratio	0.053	-	-	-	-	-	-
HCM Control Delay (s)	8.9	0	-	-	0	-	-
HCM Lane LOS	A	A	-	-	A	-	-
HCM 95th %tile Q(veh)	0.2	0	-	-	0	-	-

Intersection	
Int Delay, s/veh	3

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	7	93	165	341	257	11
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	329	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	8	101	179	371	279	12

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1014	285	291	0	-	0
Stage 1	285	-	-	-	-	-
Stage 2	729	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	255	735	1226	-	-	-
Stage 1	745	-	-	-	-	-
Stage 2	463	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	218	735	1226	-	-	-
Mov Cap-2 Maneuver	218	-	-	-	-	-
Stage 1	745	-	-	-	-	-
Stage 2	395	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	11.9	2.8	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1226	-	630	-	-
HCM Lane V/C Ratio	0.146	-	0.173	-	-
HCM Control Delay (s)	8.4	-	11.9	-	-
HCM Lane LOS	A	-	B	-	-
HCM 95th %tile Q(veh)	0.5	-	0.6	-	-

Intersection	
Int Delay, s/veh	3.1

Movement	NBT	NBR	SBL	SBT	NWL	NWR
Vol, veh/h	449	130	91	193	1	149
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	299	-	0	-
Veh in Median Storage, #	0	-	-	0	1	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	488	141	99	210	1	162

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	629	0	967	559
Stage 1	-	-	-	-	559	-
Stage 2	-	-	-	-	408	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	916	-	273	514
Stage 1	-	-	-	-	557	-
Stage 2	-	-	-	-	654	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	916	-	243	514
Mov Cap-2 Maneuver	-	-	-	-	371	-
Stage 1	-	-	-	-	557	-
Stage 2	-	-	-	-	583	-

Approach	NB	SB	NW
HCM Control Delay, s	0	3	15.3
HCM LOS			C

Minor Lane/Major Mvmt	NBT	NBR	NWLn1	SBL	SBT
Capacity (veh/h)	-	-	513	916	-
HCM Lane V/C Ratio	-	-	0.318	0.108	-
HCM Control Delay (s)	-	-	15.3	9.4	-
HCM Lane LOS	-	-	C	A	-
HCM 95th %tile Q(veh)	-	-	1.4	0.4	-

Intersection	
Intersection Delay, s/veh	14.1
Intersection LOS	B

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	44	98	45	0	29	209	48	0	113	178	50
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	48	107	49	0	32	227	52	0	123	193	54
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	1	1	1
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	1	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	1	1
HCM Control Delay	11.7	14	16.3
HCM LOS	B	B	C

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	33%	24%	10%	21%
Vol Thru, %	52%	52%	73%	58%
Vol Right, %	15%	24%	17%	21%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	341	187	286	62
LT Vol	113	44	29	13
Through Vol	178	98	209	36
RT Vol	50	45	48	13
Lane Flow Rate	371	203	311	67
Geometry Grp	1	1	1	1
Degree of Util (X)	0.581	0.328	0.488	0.116
Departure Headway (Hd)	5.642	5.815	5.647	6.178
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	638	616	634	576
Service Time	3.695	3.88	3.705	4.257
HCM Lane V/C Ratio	0.582	0.33	0.491	0.116
HCM Control Delay	16.3	11.7	14	10.1
HCM Lane LOS	C	B	B	B
HCM 95th-tile Q	3.7	1.4	2.7	0.4

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	13	36	13
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10
Mvmt Flow	0	14	39	14
Number of Lanes	0	0	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	1
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	10.1
HCM LOS	B

Lane

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	6	293	12	45	705	16	180	267	82	3	67	8
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	7	318	13	49	766	17	196	290	89	3	73	9
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	12	549	246	289	1100	492	299	473	402	5	164	140
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.01	0.17	0.17	0.18	0.34	0.34	0.18	0.27	0.27	0.00	0.10	0.10
Ln Grp Delay, s/veh	56.3	17.1	14.8	15.0	12.9	9.4	18.4	14.6	3.2	88.6	19.9	10.8
Ln Grp LOS	E	B	B	B	B	A	B	B	A	F	B	B
Approach Vol, veh/h		338			832			575			85	
Approach Delay, s/veh		17.8			13.0			14.2			21.3	
Approach LOS		B			B			B			C	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	6	5	7	8
Case No	2.0	3.0	3.0	2.0	3.0	2.0	2.0	3.0
Phs Duration (G+Y+Rc), s	4.1	15.5	11.0	11.4	8.0	11.7	4.3	18.1
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	6.0	35.0	30.0	9.0	19.0	22.0	6.0	33.0
Max Allow Headway (MAH), s	4.1	4.1	4.0	4.0	4.1	4.1	4.1	4.0
Max Q Clear (g_c+I1), s	2.1	8.2	5.8	3.1	3.7	6.7	2.2	10.5
Green Ext Time (g_e), s	0.0	2.1	1.3	2.0	0.2	1.9	0.0	3.6
Prob of Phs Call (p_c)	0.03	1.00	1.00	0.44	1.00	0.90	0.08	1.00
Prob of Max Out (p_x)	1.00	0.00	0.00	0.60	0.00	0.02	1.00	0.01

Left-Turn Movement Data								
Assigned Mvmt	1			3		5	7	
Mvmt Sat Flow, veh/h	1645			1645		1645	1645	

Through Movement Data								
Assigned Mvmt		2	4		6			8
Mvmt Sat Flow, veh/h		1727	3282		1727			3282

Right-Turn Movement Data								
Assigned Mvmt		12	14		16			18
Mvmt Sat Flow, veh/h		1468	1468		1468			1468

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	0	5	7	0
Lane Assignment	(Prot)			(Prot)		(Prot)	(Prot)	
Lanes in Grp	1	0	0	1	0	1	1	0

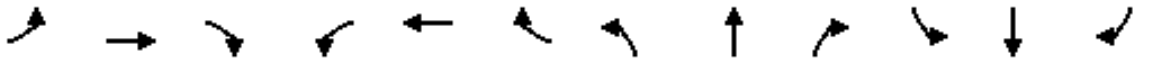
Grp Vol (v), veh/h	3	0	0	49	0	196	7	0
Grp Sat Flow (s), veh/h/ln	1645	0	0	1645	0	1645	1645	0
Q Serve Time (g_s), s	0.1	0.0	0.0	1.1	0.0	4.7	0.2	0.0
Cycle Q Clear Time (g_c), s	0.1	0.0	0.0	1.1	0.0	4.7	0.2	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	5	0	0	289	0	299	12	0
V/C Ratio (X)	0.56	0.00	0.00	0.17	0.00	0.65	0.57	0.00
Avail Cap (c_a), veh/h	235	0	0	352	0	860	235	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
Uniform Delay (d1), s/veh	20.9	0.0	0.0	14.7	0.0	16.0	20.8	0.0
Incr Delay (d2), s/veh	67.7	0.0	0.0	0.3	0.0	2.4	35.4	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	88.6	0.0	0.0	15.0	0.0	18.4	56.3	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.5	0.0	2.1	0.1	0.0
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.0	0.0	0.0	0.2	0.1	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.1	0.0	0.0	0.5	0.0	2.3	0.2	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	6	0	0	8
Lane Assignment		T	T		T			T
Lanes in Grp	0	1	2	0	1	0	0	2
Grp Vol (v), veh/h	0	290	318	0	73	0	0	766
Grp Sat Flow (s), veh/h/ln	0	1727	1641	0	1727	0	0	1641
Q Serve Time (g_s), s	0.0	6.2	3.8	0.0	1.7	0.0	0.0	8.5
Cycle Q Clear Time (g_c), s	0.0	6.2	3.8	0.0	1.7	0.0	0.0	8.5
Lane Grp Cap (c), veh/h	0	473	549	0	164	0	0	1100
V/C Ratio (X)	0.00	0.61	0.58	0.00	0.44	0.00	0.00	0.70
Avail Cap (c_a), veh/h	0	1437	2340	0	780	0	0	2574
Upstream Filter (I)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	13.3	16.2	0.0	18.0	0.0	0.0	12.1
Incr Delay (d2), s/veh	0.0	1.3	1.0	0.0	1.9	0.0	0.0	0.8
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	14.6	17.1	0.0	19.9	0.0	0.0	12.9
1st-Term Q (Q1), veh/ln	0.0	2.9	1.7	0.0	0.8	0.0	0.0	3.8
2nd-Term Q (Q2), veh/ln	0.0	0.2	0.1	0.0	0.1	0.0	0.0	0.1

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	3.1	1.8	0.0	0.9	0.0	0.0	4.0
%ile Storage Ratio (RQ%)	0.00	0.04	0.01	0.00	0.00	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	14	0	16	0	0	18
Lane Assignment		R	R		R			R
Lanes in Grp	0	1	1	0	1	0	0	1
Grp Vol (v), veh/h	0	89	13	0	9	0	0	17
Grp Sat Flow (s), veh/h/ln	0	1468	1468	0	1468	0	0	1468
Q Serve Time (g_s), s	0.0	1.0	0.3	0.0	0.2	0.0	0.0	0.3
Cycle Q Clear Time (g_c), s	0.0	1.0	0.3	0.0	0.2	0.0	0.0	0.3
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	402	246	0	140	0	0	492
V/C Ratio (X)	0.00	0.22	0.05	0.00	0.06	0.00	0.00	0.03
Avail Cap (c_a), veh/h	0	1221	1047	0	663	0	0	1151
Upstream Filter (I)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	2.9	14.7	0.0	10.6	0.0	0.0	9.4
Incr Delay (d2), s/veh	0.0	0.3	0.1	0.0	0.2	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	3.2	14.8	0.0	10.8	0.0	0.0	9.4
1st-Term Q (Q1), veh/ln	0.0	0.7	0.1	0.0	0.1	0.0	0.0	0.1
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.7	0.1	0.0	0.1	0.0	0.0	0.1
%ile Storage Ratio (RQ%)	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	14.6
HCM 2010 LOS	B



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	6	293	12	45	705	16	180	267	82	3	67	8
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	7	318	13	49	766	17	196	290	89	3	73	9
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	12	549	246	289	1100	492	299	473	402	5	164	140
Arrive On Green	0.01	0.17	0.17	0.18	0.34	0.34	0.18	0.27	0.27	0.00	0.10	0.10
Sat Flow, veh/h	1645	3282	1468	1645	3282	1468	1645	1727	1468	1645	1727	1468
Grp Volume(v), veh/h	7	318	13	49	766	17	196	290	89	3	73	9
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1641	1468	1645	1727	1468	1645	1727	1468
Q Serve(g_s), s	0.2	3.8	0.3	1.1	8.5	0.3	4.7	6.2	1.0	0.1	1.7	0.2
Cycle Q Clear(g_c), s	0.2	3.8	0.3	1.1	8.5	0.3	4.7	6.2	1.0	0.1	1.7	0.2
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	12	549	246	289	1100	492	299	473	402	5	164	140
V/C Ratio(X)	0.57	0.58	0.05	0.17	0.70	0.03	0.65	0.61	0.22	0.56	0.44	0.06
Avail Cap(c_a), veh/h	235	2340	1047	352	2574	1151	860	1437	1221	235	780	663
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	20.8	16.2	14.7	14.7	12.1	9.4	16.0	13.3	2.9	20.9	18.0	10.6
Incr Delay (d2), s/veh	35.4	1.0	0.1	0.3	0.8	0.0	2.4	1.3	0.3	67.7	1.9	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	1.8	0.1	0.5	4.0	0.1	2.3	3.1	0.7	0.1	0.9	0.1
LnGrp Delay(d),s/veh	56.3	17.1	14.8	15.0	12.9	9.4	18.4	14.6	3.2	88.6	19.9	10.8
LnGrp LOS	E	B	B	B	B	A	B	B	A	F	B	B
Approach Vol, veh/h		338			832			575			85	
Approach Delay, s/veh		17.8			13.0			14.2			21.3	
Approach LOS		B			B			B			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	4.1	15.5	11.4	11.0	11.7	8.0	4.3	18.1
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	6.0	35.0	9.0	30.0	22.0	19.0	6.0	33.0
Max Q Clear Time (g_c+I1), s	2.1	8.2	3.1	5.8	6.7	3.7	2.2	10.5
Green Ext Time (p_c), s	0.0	2.1	2.0	1.3	1.9	0.2	0.0	3.6

Intersection Summary	
HCM 2010 Ctrl Delay	14.6
HCM 2010 LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	362	17	140	755	1	73	0	538	3	2	0
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	393	18	152	821	1	79	0	585	3	2	0
Adj No. of Lanes	1	2	1	1	2	0	2	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	80	540	242	185	1082	1	1598	936	796	5	77	65
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.00	0.16	0.16	0.11	0.32	0.32	0.50	0.00	0.54	0.00	0.04	0.00
Ln Grp Delay, s/veh	0.0	38.8	2.9	46.8	30.3	30.2	11.5	0.0	21.3	115.7	41.3	0.0
Ln Grp LOS		D	A	D	C	C	B		C	F	D	
Approach Vol, veh/h		411			974			664			5	
Approach Delay, s/veh		37.2			32.8			20.1			85.9	
Approach LOS		D			C			C			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	6	5		8
Case No	2.0	3.0	2.0	5.0	3.0	2.0		4.0
Phs Duration (G+Y+Rc), s	4.3	52.8	14.1	18.8	8.0	49.1		32.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0		4.0
Max Green (Gmax), s	5.0	34.0	17.0	18.0	33.0	6.0		39.0
Max Allow Headway (MAH), s	4.1	4.3	4.1	4.0	4.0	4.3		4.0
Max Q Clear (g_c+I1), s	2.2	29.3	10.1	12.2	2.1	3.1		21.7
Green Ext Time (g_e), s	0.0	1.4	0.2	2.6	0.0	0.9		4.6
Prob of Phs Call (p_c)	0.07	1.00	0.98	1.00	1.00	0.86		1.00
Prob of Max Out (p_x)	1.00	0.91	0.11	0.75	0.00	1.00		0.12

Left-Turn Movement Data								
Assigned Mvmt	1		3	7		5		
Mvmt Sat Flow, veh/h	1645		1645	615		3191		

Through Movement Data								
Assigned Mvmt		2		4	6			8
Mvmt Sat Flow, veh/h		1727		3282	1727			3363

Right-Turn Movement Data								
Assigned Mvmt		12		14	16			18
Mvmt Sat Flow, veh/h		1468		1468	1468			4

Left Lane Group Data								
Assigned Mvmt	1	0	3	7	0	5	0	0
Lane Assignment	(Prot)		(Prot)			(Prot)		
Lanes in Grp	1	0	1	1	0	2	0	0

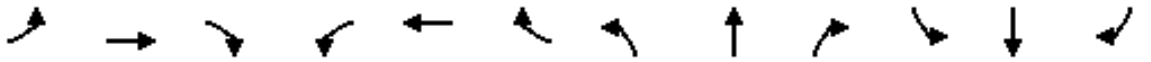
Grp Vol (v), veh/h	3	0	152	0	0	79	0	0
Grp Sat Flow (s), veh/h/ln	1645	0	1645	615	0	1596	0	0
Q Serve Time (g_s), s	0.2	0.0	8.1	0.0	0.0	1.1	0.0	0.0
Cycle Q Clear Time (g_c), s	0.2	0.0	8.1	0.0	0.0	1.1	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	615	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	1.00	0.00	1.00	0.00	0.00
Lane Grp Cap (c), veh/h	5	0	185	80	0	1598	0	0
V/C Ratio (X)	0.57	0.00	0.82	0.00	0.00	0.05	0.00	0.00
Avail Cap (c_a), veh/h	91	0	311	102	0	1598	0	0
Upstream Filter (I)	1.00	0.00	0.88	0.00	0.00	0.92	0.00	0.00
Uniform Delay (d1), s/veh	44.8	0.0	39.0	0.0	0.0	11.5	0.0	0.0
Incr Delay (d2), s/veh	70.9	0.0	7.7	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	115.7	0.0	46.8	0.0	0.0	11.5	0.0	0.0
1st-Term Q (Q1), veh/ln	0.1	0.0	3.7	0.0	0.0	0.5	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.4	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	1.00	0.00	1.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.2	0.0	4.1	0.0	0.0	0.5	0.0	0.0
%ile Storage Ratio (RQ%)	0.05	0.00	0.35	0.00	0.00	0.09	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	6	0	0	8
Lane Assignment		T		T	T			T
Lanes in Grp	0	1	0	2	1	0	0	1
Grp Vol (v), veh/h	0	0	0	393	2	0	0	401
Grp Sat Flow (s), veh/h/ln	0	1727	0	1641	1727	0	0	1641
Q Serve Time (g_s), s	0.0	0.0	0.0	10.2	0.1	0.0	0.0	19.7
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	10.2	0.1	0.0	0.0	19.7
Lane Grp Cap (c), veh/h	0	936	0	540	77	0	0	528
V/C Ratio (X)	0.00	0.00	0.00	0.73	0.03	0.00	0.00	0.76
Avail Cap (c_a), veh/h	0	936	0	656	633	0	0	711
Upstream Filter (I)	0.00	0.00	0.00	0.96	1.00	0.00	0.00	0.88
Uniform Delay (d1), s/veh	0.0	0.0	0.0	35.7	41.1	0.0	0.0	27.4
Incr Delay (d2), s/veh	0.0	0.0	0.0	3.1	0.1	0.0	0.0	2.9
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	38.8	41.3	0.0	0.0	30.3
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	4.6	0.0	0.0	0.0	8.9
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.4

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	4.9	0.1	0.0	0.0	9.3
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.05
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	16	0	0	18
Lane Assignment		R		R	R			T+R
Lanes in Grp	0	1	0	1	1	0	0	1
Grp Vol (v), veh/h	0	585	0	18	0	0	0	421
Grp Sat Flow (s), veh/h/ln	0	1468	0	1468	1468	0	0	1727
Q Serve Time (g_s), s	0.0	27.3	0.0	0.3	0.0	0.0	0.0	19.7
Cycle Q Clear Time (g_c), s	0.0	27.3	0.0	0.3	0.0	0.0	0.0	19.7
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	1.00	1.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	796	0	242	65	0	0	555
V/C Ratio (X)	0.00	0.74	0.00	0.07	0.00	0.00	0.00	0.76
Avail Cap (c_a), veh/h	0	796	0	294	538	0	0	748
Upstream Filter (I)	0.00	0.92	0.00	0.96	0.00	0.00	0.00	0.88
Uniform Delay (d1), s/veh	0.0	15.7	0.0	2.8	0.0	0.0	0.0	27.4
Incr Delay (d2), s/veh	0.0	5.6	0.0	0.1	0.0	0.0	0.0	2.8
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	21.3	0.0	2.9	0.0	0.0	0.0	30.2
1st-Term Q (Q1), veh/ln	0.0	10.9	0.0	0.1	0.0	0.0	0.0	9.4
2nd-Term Q (Q2), veh/ln	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.4
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	12.2	0.0	0.1	0.0	0.0	0.0	9.8
%ile Storage Ratio (RQ%)	0.00	3.13	0.00	0.01	0.00	0.00	0.00	0.05
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	29.7
HCM 2010 LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	362	17	140	755	1	73	0	538	3	2	0
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	393	18	152	821	1	79	0	585	3	2	0
Adj No. of Lanes	1	2	1	1	2	0	2	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	80	540	242	185	1082	1	1598	936	796	5	77	65
Arrive On Green	0.00	0.16	0.16	0.11	0.32	0.32	0.50	0.00	0.54	0.00	0.04	0.00
Sat Flow, veh/h	615	3282	1468	1645	3363	4	3191	1727	1468	1645	1727	1468
Grp Volume(v), veh/h	0	393	18	152	401	421	79	0	585	3	2	0
Grp Sat Flow(s),veh/h/ln	615	1641	1468	1645	1641	1727	1596	1727	1468	1645	1727	1468
Q Serve(g_s), s	0.0	10.2	0.3	8.1	19.7	19.7	1.1	0.0	27.3	0.2	0.1	0.0
Cycle Q Clear(g_c), s	0.0	10.2	0.3	8.1	19.7	19.7	1.1	0.0	27.3	0.2	0.1	0.0
Prop In Lane	1.00		1.00	1.00		0.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	80	540	242	185	528	555	1598	936	796	5	77	65
V/C Ratio(X)	0.00	0.73	0.07	0.82	0.76	0.76	0.05	0.00	0.74	0.57	0.03	0.00
Avail Cap(c_a), veh/h	102	656	294	311	711	748	1598	936	796	91	633	538
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.96	0.96	0.88	0.88	0.88	0.92	0.00	0.92	1.00	1.00	0.00
Uniform Delay (d), s/veh	0.0	35.7	2.8	39.0	27.4	27.4	11.5	0.0	15.7	44.8	41.1	0.0
Incr Delay (d2), s/veh	0.0	3.1	0.1	7.7	2.9	2.8	0.0	0.0	5.6	70.9	0.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	4.9	0.1	4.1	9.3	9.8	0.5	0.0	12.2	0.2	0.1	0.0
LnGrp Delay(d),s/veh	0.0	38.8	2.9	46.8	30.3	30.2	11.5	0.0	21.3	115.7	41.3	0.0
LnGrp LOS		D	A	D	C	C	B		C	F	D	
Approach Vol, veh/h		411			974			664			5	
Approach Delay, s/veh		37.2			32.8			20.1			85.9	
Approach LOS		D			C			C			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6		8
Phs Duration (G+Y+Rc), s	4.3	52.8	14.1	18.8	49.1	8.0		32.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	5.0	34.0	17.0	18.0	6.0	33.0		39.0
Max Q Clear Time (g_c+I1), s	2.2	29.3	10.1	12.2	3.1	2.1		21.7
Green Ext Time (p_c), s	0.0	1.4	0.2	2.6	0.9	0.0		4.6

Intersection Summary	
HCM 2010 Ctrl Delay	29.7
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	27	912	36	123	0	73	88	21	288	10	4	11
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	29	991	39	134	0	79	96	23	313	11	4	12
Adj No. of Lanes	1	2	0	1	2	1	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	598	1100	43	164	255	114	554	25	339	223	17	51
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.36	0.34	0.34	0.10	0.00	0.08	0.34	0.25	0.25	0.14	0.04	0.04
Ln Grp Delay, s/veh	18.6	40.0	39.7	54.9	0.0	47.3	21.2	0.0	63.9	33.9	0.0	49.5
Ln Grp LOS	B	D	D	D		D	C		E	C		D
Approach Vol, veh/h		1059			213			432			27	
Approach Delay, s/veh		39.3			52.1			54.4			43.2	
Approach LOS		D			D			D			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	6	5	8	7
Case No	4.0	2.0	2.0	4.0	4.0	2.0	3.0	2.0
Phs Duration (G+Y+Rc), s	26.1	16.2	13.0	34.8	8.0	34.3	11.0	36.7
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	23.0	4.0	12.0	35.0	18.0	9.0	41.0	6.0
Max Allow Headway (MAH), s	4.3	4.1	4.1	4.0	4.3	4.1	4.4	4.0
Max Q Clear (g_c+I1), s	21.9	2.5	9.2	28.3	2.9	5.7	6.7	3.0
Green Ext Time (g_e), s	0.2	0.0	0.1	2.4	0.0	0.1	0.3	1.3
Prob of Phs Call (p_c)	1.00	0.24	0.96	1.00	1.00	0.91	1.00	0.52
Prob of Max Out (p_x)	1.00	1.00	1.00	0.62	0.00	1.00	0.00	1.00

Left-Turn Movement Data								
Assigned Mvmt		1	3			5		7
Mvmt Sat Flow, veh/h		1645	1645			1645		1645

Through Movement Data								
Assigned Mvmt	2			4	6		8	
Mvmt Sat Flow, veh/h	102			3219	381		3282	

Right-Turn Movement Data								
Assigned Mvmt	12			14	16		18	
Mvmt Sat Flow, veh/h	1382			127	1144		1468	

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	0	5	0	7
Lane Assignment		(Prot)	(Prot)			(Prot)		(Prot)
Lanes in Grp	0	1	1	0	0	1	0	1

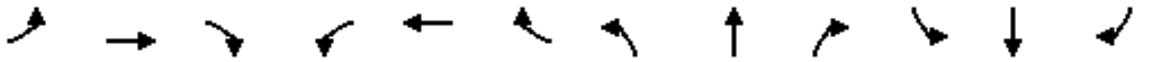
Grp Vol (v), veh/h	0	11	134	0	0	96	0	29
Grp Sat Flow (s), veh/h/ln	0	1645	1645	0	0	1645	0	1645
Q Serve Time (g_s), s	0.0	0.5	7.2	0.0	0.0	3.7	0.0	1.0
Cycle Q Clear Time (g_c), s	0.0	0.5	7.2	0.0	0.0	3.7	0.0	1.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	223	164	0	0	554	0	598
V/C Ratio (X)	0.00	0.05	0.82	0.00	0.00	0.17	0.00	0.05
Avail Cap (c_a), veh/h	0	223	219	0	0	554	0	598
Upstream Filter (I)	0.00	1.00	0.93	0.00	0.00	0.97	0.00	0.77
Uniform Delay (d1), s/veh	0.0	33.8	39.7	0.0	0.0	21.0	0.0	18.6
Incr Delay (d2), s/veh	0.0	0.1	15.2	0.0	0.0	0.1	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	33.9	54.9	0.0	0.0	21.2	0.0	18.6
1st-Term Q (Q1), veh/ln	0.0	0.2	3.3	0.0	0.0	1.7	0.0	0.5
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.2	4.0	0.0	0.0	1.7	0.0	0.5
%ile Storage Ratio (RQ%)	0.00	0.04	0.55	0.00	0.00	0.39	0.00	0.04
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	6	0	8	0
Lane Assignment				T			T	
Lanes in Grp	0	0	0	1	0	0	2	0
Grp Vol (v), veh/h	0	0	0	505	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1641	0	0	1641	0
Q Serve Time (g_s), s	0.0	0.0	0.0	26.3	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	26.3	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	561	0	0	255	0
V/C Ratio (X)	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	638	0	0	1495	0
Upstream Filter (I)	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	28.2	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	11.9	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	40.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	11.9	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	13.8	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	0	14	16	0	18	0
Lane Assignment	T+R			T+R	T+R		R	
Lanes in Grp	1	0	0	1	1	0	1	0
Grp Vol (v), veh/h	336	0	0	525	16	0	79	0
Grp Sat Flow (s), veh/h/ln	1483	0	0	1705	1525	0	1468	0
Q Serve Time (g_s), s	19.9	0.0	0.0	26.3	0.9	0.0	4.7	0.0
Cycle Q Clear Time (g_c), s	19.9	0.0	0.0	26.3	0.9	0.0	4.7	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.93	0.00	0.00	0.07	0.75	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	364	0	0	583	68	0	114	0
V/C Ratio (X)	0.92	0.00	0.00	0.90	0.24	0.00	0.69	0.00
Avail Cap (c_a), veh/h	379	0	0	663	305	0	669	0
Upstream Filter (I)	0.97	0.00	0.00	0.77	1.00	0.00	0.93	0.00
Uniform Delay (d1), s/veh	33.2	0.0	0.0	28.2	41.5	0.0	40.5	0.0
Incr Delay (d2), s/veh	30.8	0.0	0.0	11.5	8.0	0.0	6.8	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	63.9	0.0	0.0	39.7	49.5	0.0	47.3	0.0
1st-Term Q (Q1), veh/ln	8.1	0.0	0.0	12.4	0.4	0.0	1.9	0.0
2nd-Term Q (Q2), veh/ln	3.1	0.0	0.0	1.9	0.2	0.0	0.2	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	11.2	0.0	0.0	14.3	0.5	0.0	2.1	0.0
%ile Storage Ratio (RQ%)	0.01	0.00	0.00	0.07	0.03	0.00	0.30	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	44.7
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	27	912	36	123	0	73	88	21	288	10	4	11
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	29	991	39	134	0	79	96	23	313	11	4	12
Adj No. of Lanes	1	2	0	1	2	1	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	598	1100	43	164	255	114	554	25	339	223	17	51
Arrive On Green	0.36	0.34	0.34	0.10	0.00	0.08	0.34	0.25	0.25	0.14	0.04	0.04
Sat Flow, veh/h	1645	3219	127	1645	3282	1468	1645	102	1382	1645	381	1144
Grp Volume(v), veh/h	29	505	525	134	0	79	96	0	336	11	0	16
Grp Sat Flow(s),veh/h/ln	1645	1641	1705	1645	1641	1468	1645	0	1483	1645	0	1525
Q Serve(g_s), s	1.0	26.3	26.3	7.2	0.0	4.7	3.7	0.0	19.9	0.5	0.0	0.9
Cycle Q Clear(g_c), s	1.0	26.3	26.3	7.2	0.0	4.7	3.7	0.0	19.9	0.5	0.0	0.9
Prop In Lane	1.00		0.07	1.00		1.00	1.00		0.93	1.00		0.75
Lane Grp Cap(c), veh/h	598	561	583	164	255	114	554	0	364	223	0	68
V/C Ratio(X)	0.05	0.90	0.90	0.82	0.00	0.69	0.17	0.00	0.92	0.05	0.00	0.24
Avail Cap(c_a), veh/h	598	638	663	219	1495	669	554	0	379	223	0	305
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.77	0.77	0.77	0.93	0.00	0.93	0.97	0.00	0.97	1.00	0.00	1.00
Uniform Delay (d), s/veh	18.6	28.2	28.2	39.7	0.0	40.5	21.0	0.0	33.2	33.8	0.0	41.5
Incr Delay (d2), s/veh	0.0	11.9	11.5	15.2	0.0	6.8	0.1	0.0	30.8	0.1	0.0	8.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	13.8	14.3	4.0	0.0	2.1	1.7	0.0	11.2	0.2	0.0	0.5
LnGrp Delay(d),s/veh	18.6	40.0	39.7	54.9	0.0	47.3	21.2	0.0	63.9	33.9	0.0	49.5
LnGrp LOS	B	D	D	D		D	C		E	C		D
Approach Vol, veh/h		1059			213			432			27	
Approach Delay, s/veh		39.3			52.1			54.4			43.2	
Approach LOS		D			D			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	16.2	26.1	13.0	34.8	34.3	8.0	36.7	11.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	4.0	23.0	12.0	35.0	9.0	18.0	6.0	41.0
Max Q Clear Time (g_c+I1), s	2.5	21.9	9.2	28.3	5.7	2.9	3.0	6.7
Green Ext Time (p_c), s	0.0	0.2	0.1	2.4	0.1	0.0	1.3	0.3

Intersection Summary	
HCM 2010 Ctrl Delay	44.7
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL2	NBL	NBR	SEL	SER	SER2
Lane Configurations												
Volume (veh/h)	1	1296	17	51	680	3	0	34	88	0	0	0
Number	7	4	14	3	8	18	5	5	12	1	16	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	1	1409	18	55	739	3	0	0	96	0	0	0
Adj No. of Lanes	1	2	1	1	2	0	1	1	0	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes	Yes		Yes		
Cap, veh/h	2	1549	693	73	1727	7	577	577	121	324	2	2
HCM Platoon Ratio	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.00	0.47	0.47	0.09	1.00	1.00	0.00	0.00	0.11	0.00	0.00	0.00
Ln Grp Delay, s/veh	121.4	25.2	12.7	51.4	0.2	0.2	0.0	0.0	70.1	0.0	0.0	0.0
Ln Grp LOS	F	C	B	D	A	A			E			
Approach Vol, veh/h		1428			797		133	133		0		
Approach Delay, s/veh		25.1			3.8		70.1	70.1		0.0		
Approach LOS		C			A		E	E				

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	6	5	7	8
Case No	4.0	2.0	3.0	2.0	3.0	2.0	2.0	4.0
Phs Duration (G+Y+Rc), s	13.8	21.7	46.5	8.0	0.0	35.5	4.1	50.4
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	17.0	4.0	47.0	6.0	17.0	4.0	4.0	49.0
Max Allow Headway (MAH), s	4.3	0.0	4.0	4.0	0.0	0.0	4.1	4.0
Max Q Clear (g_c+I1), s	9.6	0.0	37.8	4.9	0.0	0.0	2.1	2.0
Green Ext Time (g_e), s	0.2	0.0	4.7	0.4	0.0	0.0	0.0	3.0
Prob of Phs Call (p_c)	1.00	0.00	1.00	0.75	0.00	0.00	0.02	1.00
Prob of Max Out (p_x)	0.08	0.00	0.52	1.00	0.00	0.00	1.00	0.00

Left-Turn Movement Data								
Assigned Mvmt		1		3		5	7	
Mvmt Sat Flow, veh/h		1645		1645		1645	1645	

Through Movement Data								
Assigned Mvmt	2		4		6			8
Mvmt Sat Flow, veh/h	426		3282		1727			3352

Right-Turn Movement Data								
Assigned Mvmt	12		14		16			18
Mvmt Sat Flow, veh/h	1106		1468		1468			14

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	0	5	7	0
Lane Assignment		(Prot)		(Prot)		(Prot)	(Prot)	
Lanes in Grp	0	1	0	1	0	1	1	0

Grp Vol (v), veh/h	0	0	0	55	0	0	1	0
Grp Sat Flow (s), veh/h/ln	0	1645	0	1645	0	1645	1645	0
Q Serve Time (g_s), s	0.0	0.0	0.0	2.9	0.0	0.0	0.1	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	2.9	0.0	0.0	0.1	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	324	0	73	0	577	2	0
V/C Ratio (X)	0.00	0.00	0.00	0.75	0.00	0.00	0.55	0.00
Avail Cap (c_a), veh/h	0	324	0	110	0	577	73	0
Upstream Filter (I)	0.00	0.00	0.00	0.72	0.00	0.00	0.41	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	40.5	0.0	0.0	44.9	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	10.9	0.0	0.0	76.5	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	51.4	0.0	0.0	121.4	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	1.5	0.0	0.0	0.1	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	6	0	0	8
Lane Assignment			T		T			T
Lanes in Grp	0	0	2	0	1	0	0	1
Grp Vol (v), veh/h	0	0	1409	0	0	0	0	362
Grp Sat Flow (s), veh/h/ln	0	0	1641	0	1727	0	0	1641
Q Serve Time (g_s), s	0.0	0.0	35.8	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	35.8	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	1549	0	2	0	0	845
V/C Ratio (X)	0.00	0.00	0.91	0.00	0.00	0.00	0.00	0.43
Avail Cap (c_a), veh/h	0	0	1714	0	326	0	0	893
Upstream Filter (I)	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.72
Uniform Delay (d1), s/veh	0.0	0.0	22.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	25.2	0.0	0.0	0.0	0.0	0.2
1st-Term Q (Q1), veh/ln	0.0	0.0	16.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.1

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	16.7	0.0	0.0	0.0	0.0	0.1
%ile Storage Ratio (RQ%)	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	16	0	0	18
Lane Assignment	T+R		R		R			T+R
Lanes in Grp	1	0	1	0	1	0	0	1
Grp Vol (v), veh/h	133	0	18	0	0	0	0	380
Grp Sat Flow (s), veh/h/ln	1532	0	1468	0	1468	0	0	1725
Q Serve Time (g_s), s	7.6	0.0	0.6	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	7.6	0.0	0.6	0.0	0.0	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.72	0.00	1.00	0.00	1.00	0.00	0.00	0.01
Lane Grp Cap (c), veh/h	168	0	693	0	2	0	0	888
V/C Ratio (X)	0.79	0.00	0.03	0.00	0.00	0.00	0.00	0.43
Avail Cap (c_a), veh/h	289	0	767	0	277	0	0	939
Upstream Filter (I)	1.00	0.00	0.41	0.00	0.00	0.00	0.00	0.72
Uniform Delay (d1), s/veh	39.1	0.0	12.7	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	31.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	70.1	0.0	12.7	0.0	0.0	0.0	0.0	0.2
1st-Term Q (Q1), veh/ln	3.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	4.7	0.0	0.2	0.0	0.0	0.0	0.0	0.1
%ile Storage Ratio (RQ%)	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	20.4
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL2	NBL	NBR	SEL	SER	SER2
Lane Configurations												
Volume (veh/h)	1	1296	17	51	680	3	0	34	88	0	0	0
Number	7	4	14	3	8	18	5	5	12	1	16	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	1	1409	18	55	739	3	0	0	96	0	0	0
Adj No. of Lanes	1	2	1	1	2	0	1	1	0	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	2	1549	693	73	1727	7	577	577	121	324	2	2
Arrive On Green	0.00	0.47	0.47	0.09	1.00	1.00	0.00	0.00	0.11	0.00	0.00	0.00
Sat Flow, veh/h	1645	3282	1468	1645	3352	14	1645	1645	1106	1645	1468	1468
Grp Volume(v), veh/h	1	1409	18	55	362	380	0	0	133	0	0	0
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1641	1725	1645	1645	1532	1645	1468	1468
Q Serve(g_s), s	0.1	35.8	0.6	2.9	0.0	0.0	0.0	0.0	7.6	0.0	0.0	0.0
Cycle Q Clear(g_c), s	0.1	35.8	0.6	2.9	0.0	0.0	0.0	0.0	7.6	0.0	0.0	0.0
Prop In Lane	1.00		1.00	1.00		0.01	1.00	1.00	0.72	1.00	1.00	1.00
Lane Grp Cap(c), veh/h	2	1549	693	73	845	888	577	577	168	324	2	2
V/C Ratio(X)	0.55	0.91	0.03	0.75	0.43	0.43	0.00	0.00	0.79	0.00	0.00	0.00
Avail Cap(c_a), veh/h	73	1714	767	110	893	939	577	577	289	324	277	277
HCM Platoon Ratio	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.41	0.41	0.41	0.72	0.72	0.72	0.00	0.00	1.00	0.00	0.00	0.00
Uniform Delay (d), s/veh	44.9	22.0	12.7	40.5	0.0	0.0	0.0	0.0	39.1	0.0	0.0	0.0
Incr Delay (d2), s/veh	76.5	3.2	0.0	10.9	0.2	0.2	0.0	0.0	31.0	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	16.7	0.2	1.5	0.1	0.1	0.0	0.0	4.7	0.0	0.0	0.0
LnGrp Delay(d),s/veh	121.4	25.2	12.7	51.4	0.2	0.2	0.0	0.0	70.1	0.0	0.0	0.0
LnGrp LOS	F	C	B	D	A	A			E			
Approach Vol, veh/h		1428			797		133	133		0		
Approach Delay, s/veh		25.1			3.8		70.1	70.1		0.0		
Approach LOS		C			A		E	E				

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	21.7	13.8	8.0	46.5	35.5	0.0	4.1	50.4
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	4.0	17.0	6.0	47.0	4.0	17.0	4.0	49.0
Max Q Clear Time (g_c+I1), s	0.0	9.6	4.9	37.8	0.0	0.0	2.1	2.0
Green Ext Time (p_c), s	0.0	0.2	0.4	4.7	0.0	0.0	0.0	3.0

Intersection Summary	
HCM 2010 Ctrl Delay	20.4
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL2	SBL	SBR	NWL	NWR	NWR2
Lane Configurations												
Volume (veh/h)	123	720	280	0	573	38	0	39	33	0	0	0
Number	7	4	14	3	8	18	1	1	16	5	12	12
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	0	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	134	783	304	0	623	41	0	0	36	0	0	0
Adj No. of Lanes	1	2	1	0	3	1	2	2	1	2	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	0	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			No			Yes	Yes		Yes		
Cap, veh/h	242	1206	540	0	829	258	160	160	798	160	798	798
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.15	0.37	0.37	0.00	0.18	0.18	0.00	0.00	0.54	0.00	0.00	0.00
Ln Grp Delay, s/veh	36.4	23.9	23.0	0.0	36.3	31.7	0.0	0.0	9.6	0.0	0.0	0.0
Ln Grp LOS	D	C	C		D	C			A			
Approach Vol, veh/h		1221			664		36	36		0		
Approach Delay, s/veh		25.0			36.0		9.6	9.6		0.0		
Approach LOS		C			D		A	A				

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6	8	7
Case No		5.0		3.0		5.0	7.0	2.0
Phs Duration (G+Y+Rc), s		52.9		37.1		52.9	19.8	17.2
Change Period (Y+Rc), s		4.0		4.0		4.0	4.0	4.0
Max Green (Gmax), s		25.0		57.0		25.0	28.0	25.0
Max Allow Headway (MAH), s		0.0		4.1		4.4	4.0	4.1
Max Q Clear (g_c+I1), s		0.0		19.8		3.0	13.3	8.8
Green Ext Time (g_e), s		0.0		5.9		0.1	2.5	4.9
Prob of Phs Call (p_c)		1.00		1.00		1.00	1.00	0.96
Prob of Max Out (p_x)		0.00		0.00		0.00	0.02	0.14

Left-Turn Movement Data								
Assigned Mvmt		5				1	3	7
Mvmt Sat Flow, veh/h		2367				3191	0	1645

Through Movement Data								
Assigned Mvmt		2		4		6	8	
Mvmt Sat Flow, veh/h		3040		3282		0	4871	

Right-Turn Movement Data								
Assigned Mvmt		12		14		16	18	
Mvmt Sat Flow, veh/h		1468		1468		1468	1468	

Left Lane Group Data								
Assigned Mvmt	0	5	0	0	0	1	3	7
Lane Assignment								(Prot)
Lanes in Grp	0	2	0	0	0	2	0	1

Grp Vol (v), veh/h	0	0	0	0	0	0	0	134
Grp Sat Flow (s), veh/h/ln	0	1183	0	0	0	1596	0	1645
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8
Perm LT Sat Flow (s_l), veh/h/ln	0	1183	0	0	0	1596	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	15.8	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	160	0	0	0	160	0	242
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55
Avail Cap (c_a), veh/h	0	160	0	0	0	160	0	457
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.6
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.4
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	8	0
Lane Assignment		T		T			T	
Lanes in Grp	0	2	0	2	0	0	3	0
Grp Vol (v), veh/h	0	0	0	783	0	0	623	0
Grp Sat Flow (s), veh/h/ln	0	1520	0	1641	0	0	1572	0
Q Serve Time (g_s), s	0.0	0.0	0.0	17.8	0.0	0.0	11.3	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	17.8	0.0	0.0	11.3	0.0
Lane Grp Cap (c), veh/h	0	1653	0	1206	0	0	829	0
V/C Ratio (X)	0.00	0.00	0.00	0.65	0.00	0.00	0.75	0.00
Avail Cap (c_a), veh/h	0	1653	0	2078	0	0	1467	0
Upstream Filter (I)	0.00	0.00	0.00	0.37	0.00	0.00	0.77	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	23.6	0.0	0.0	35.2	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.2	0.0	0.0	1.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	23.9	0.0	0.0	36.3	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	8.0	0.0	0.0	4.9	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	8.1	0.0	0.0	5.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.17	0.00	0.00	0.07	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

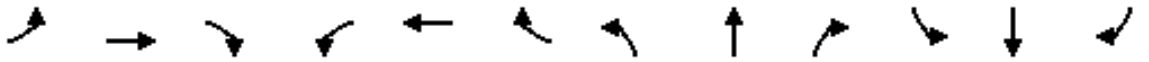
Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	18	0
Lane Assignment		R		R		R	R	
Lanes in Grp	0	1	0	1	0	1	1	0
Grp Vol (v), veh/h	0	0	0	304	0	36	41	0
Grp Sat Flow (s), veh/h/ln	0	1468	0	1468	0	1468	1468	0
Q Serve Time (g_s), s	0.0	0.0	0.0	14.9	0.0	1.0	2.1	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	14.9	0.0	1.0	2.1	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	798	0	540	0	798	258	0
V/C Ratio (X)	0.00	0.00	0.00	0.56	0.00	0.05	0.16	0.00
Avail Cap (c_a), veh/h	0	798	0	930	0	798	457	0
Upstream Filter (I)	0.00	0.00	0.00	0.37	0.00	1.00	0.77	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	22.7	0.0	9.6	31.4	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.3	0.0	0.0	0.2	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	23.0	0.0	9.6	31.7	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	6.0	0.0	1.3	0.9	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	6.0	0.0	1.3	0.9	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.12	0.00	0.02	0.11	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	28.5
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL2	SBL	SBR	NWL	NWR	NWR2
Lane Configurations												
Volume (veh/h)	123	720	280	0	573	38	0	39	33	0	0	0
Number	7	4	14	3	8	18	1	1	16	5	12	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	0	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	134	783	304	0	623	41	0	0	36	0	0	0
Adj No. of Lanes	1	2	1	0	3	1	2	2	1	2	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	0	10	10	10	10	10	10	10	10
Cap, veh/h	242	1206	540	0	829	258	160	160	798	160	798	798
Arrive On Green	0.15	0.37	0.37	0.00	0.18	0.18	0.00	0.00	0.54	0.00	0.00	0.00
Sat Flow, veh/h	1645	3282	1468	0	4871	1468	3191	3191	1468	2367	1468	1468
Grp Volume(v), veh/h	134	783	304	0	623	41	0	0	36	0	0	0
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	0	1572	1468	1596	1596	1468	1183	1468	1468
Q Serve(g_s), s	6.8	17.8	14.9	0.0	11.3	2.1	0.0	0.0	1.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	6.8	17.8	14.9	0.0	11.3	2.1	0.0	0.0	1.0	0.0	0.0	0.0
Prop In Lane	1.00		1.00	0.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lane Grp Cap(c), veh/h	242	1206	540	0	829	258	160	160	798	160	798	798
V/C Ratio(X)	0.55	0.65	0.56	0.00	0.75	0.16	0.00	0.00	0.05	0.00	0.00	0.00
Avail Cap(c_a), veh/h	457	2078	930	0	1467	457	160	160	798	160	798	798
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.37	0.37	0.37	0.00	0.77	0.77	0.00	0.00	1.00	0.00	0.00	0.00
Uniform Delay (d), s/veh	35.6	23.6	22.7	0.0	35.2	31.4	0.0	0.0	9.6	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.7	0.2	0.3	0.0	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.1	8.1	6.0	0.0	5.0	0.9	0.0	0.0	1.3	0.0	0.0	0.0
LnGrp Delay(d),s/veh	36.4	23.9	23.0	0.0	36.3	31.7	0.0	0.0	9.6	0.0	0.0	0.0
LnGrp LOS	D	C	C		D	C			A			
Approach Vol, veh/h		1221			664		36	36		0		
Approach Delay, s/veh		25.0			36.0		9.6	9.6		0.0		
Approach LOS		C			D		A	A				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6	7	8
Phs Duration (G+Y+Rc), s		52.9		37.1		52.9	17.2	19.8
Change Period (Y+Rc), s		4.0		4.0		4.0	4.0	4.0
Max Green Setting (Gmax), s		25.0		57.0		25.0	25.0	28.0
Max Q Clear Time (g_c+I1), s		0.0		19.8		3.0	8.8	13.3
Green Ext Time (p_c), s		0.0		5.9		0.1	4.9	2.5

Intersection Summary	
HCM 2010 Ctrl Delay	28.5
HCM 2010 LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	159	512	78	223	591	74	52	247	71	115	350	178
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	173	557	85	242	642	80	57	268	77	125	380	193
Adj No. of Lanes	2	2	1	2	2	1	2	1	1	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	865	839	375	978	954	427	108	347	295	190	743	333
HCM Platoon Ratio	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.09	0.08	0.08	0.31	0.29	0.29	0.03	0.20	0.20	0.06	0.23	0.23
Ln Grp Delay, s/veh	32.0	40.5	24.0	23.6	29.7	24.1	46.8	38.6	8.2	45.3	31.0	32.6
Ln Grp LOS	C	D	C	C	C	C	D	D	A	D	C	C
Approach Vol, veh/h		815			964			402			698	
Approach Delay, s/veh		37.0			27.7			34.0			34.0	
Approach LOS		D			C			C			C	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	5	6	7	8
Case No	2.0	3.0	3.0	2.0	2.0	3.0	2.0	3.0
Phs Duration (G+Y+Rc), s	9.4	22.1	27.0	31.6	7.0	24.4	28.4	30.2
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	10.0	26.0	23.0	15.0	7.0	29.0	10.0	28.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	5.5	15.2	16.8	7.1	3.6	12.5	6.5	17.5
Green Ext Time (g_e), s	0.1	2.9	1.5	2.7	0.0	3.4	0.2	3.2
Prob of Phs Call (p_c)	0.96	1.00	1.00	1.00	0.76	1.00	0.99	1.00
Prob of Max Out (p_x)	0.66	0.21	0.00	0.42	1.00	0.06	1.00	0.23

Left-Turn Movement Data								
Assigned Mvmt	1			3	5		7	
Mvmt Sat Flow, veh/h	3191			3191	3191		3191	

Through Movement Data								
Assigned Mvmt		2	4			6		8
Mvmt Sat Flow, veh/h		1727	3282			3282		3282

Right-Turn Movement Data								
Assigned Mvmt		12	14			16		18
Mvmt Sat Flow, veh/h		1468	1468			1468		1468

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	5	0	7	0
Lane Assignment	(Prot)			(Prot)	(Prot)		(Prot)	
Lanes in Grp	2	0	0	2	2	0	2	0

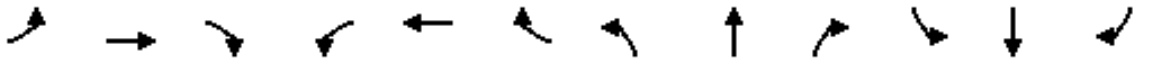
Grp Vol (v), veh/h	125	0	0	242	57	0	173	0
Grp Sat Flow (s), veh/h/ln	1596	0	0	1596	1596	0	1596	0
Q Serve Time (g_s), s	3.5	0.0	0.0	5.1	1.6	0.0	4.5	0.0
Cycle Q Clear Time (g_c), s	3.5	0.0	0.0	5.1	1.6	0.0	4.5	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	190	0	0	978	108	0	865	0
V/C Ratio (X)	0.66	0.00	0.00	0.25	0.53	0.00	0.20	0.00
Avail Cap (c_a), veh/h	355	0	0	978	248	0	865	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	1.00	0.00	0.74	0.00
Uniform Delay (d1), s/veh	41.4	0.0	0.0	23.4	42.8	0.0	31.9	0.0
Incr Delay (d2), s/veh	3.9	0.0	0.0	0.1	4.0	0.0	0.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	45.3	0.0	0.0	23.6	46.8	0.0	32.0	0.0
1st-Term Q (Q1), veh/ln	1.5	0.0	0.0	2.3	0.7	0.0	2.0	0.0
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	1.6	0.0	0.0	2.3	0.8	0.0	2.0	0.0
%ile Storage Ratio (RQ%)	0.18	0.00	0.00	0.28	0.04	0.00	0.26	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	0	6	0	8
Lane Assignment		T	T			T		T
Lanes in Grp	0	1	2	0	0	2	0	2
Grp Vol (v), veh/h	0	268	557	0	0	380	0	642
Grp Sat Flow (s), veh/h/ln	0	1727	1641	0	0	1641	0	1641
Q Serve Time (g_s), s	0.0	13.2	14.8	0.0	0.0	9.1	0.0	15.5
Cycle Q Clear Time (g_c), s	0.0	13.2	14.8	0.0	0.0	9.1	0.0	15.5
Lane Grp Cap (c), veh/h	0	347	839	0	0	743	0	954
V/C Ratio (X)	0.00	0.77	0.66	0.00	0.00	0.51	0.00	0.67
Avail Cap (c_a), veh/h	0	499	839	0	0	1057	0	1021
Upstream Filter (I)	0.00	1.00	0.74	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	34.0	37.5	0.0	0.0	30.4	0.0	28.1
Incr Delay (d2), s/veh	0.0	4.6	3.1	0.0	0.0	0.5	0.0	1.6
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	38.6	40.5	0.0	0.0	31.0	0.0	29.7
1st-Term Q (Q1), veh/ln	0.0	6.3	6.7	0.0	0.0	4.1	0.0	7.0
2nd-Term Q (Q2), veh/ln	0.0	0.4	0.4	0.0	0.0	0.1	0.0	0.2

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	6.8	7.1	0.0	0.0	4.2	0.0	7.3
%ile Storage Ratio (RQ%)	0.00	0.05	0.10	0.00	0.00	0.01	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	14	0	0	16	0	18
Lane Assignment		R	R			R		R
Lanes in Grp	0	1	1	0	0	1	0	1
Grp Vol (v), veh/h	0	77	85	0	0	193	0	80
Grp Sat Flow (s), veh/h/ln	0	1468	1468	0	0	1468	0	1468
Q Serve Time (g_s), s	0.0	2.0	4.1	0.0	0.0	10.5	0.0	3.7
Cycle Q Clear Time (g_c), s	0.0	2.0	4.1	0.0	0.0	10.5	0.0	3.7
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	295	375	0	0	333	0	427
V/C Ratio (X)	0.00	0.26	0.23	0.00	0.00	0.58	0.00	0.19
Avail Cap (c_a), veh/h	0	424	375	0	0	473	0	457
Upstream Filter (I)	0.00	1.00	0.74	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	7.7	23.0	0.0	0.0	31.0	0.0	23.9
Incr Delay (d2), s/veh	0.0	0.5	1.0	0.0	0.0	1.6	0.0	0.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	8.2	24.0	0.0	0.0	32.6	0.0	24.1
1st-Term Q (Q1), veh/ln	0.0	0.8	1.7	0.0	0.0	4.3	0.0	1.5
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.8	1.8	0.0	0.0	4.4	0.0	1.5
%ile Storage Ratio (RQ%)	0.00	0.07	0.23	0.00	0.00	0.49	0.00	0.18
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	32.7
HCM 2010 LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	159	512	78	223	591	74	52	247	71	115	350	178
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	173	557	85	242	642	80	57	268	77	125	380	193
Adj No. of Lanes	2	2	1	2	2	1	2	1	1	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	865	839	375	978	954	427	108	347	295	190	743	333
Arrive On Green	0.09	0.08	0.08	0.31	0.29	0.29	0.03	0.20	0.20	0.06	0.23	0.23
Sat Flow, veh/h	3191	3282	1468	3191	3282	1468	3191	1727	1468	3191	3282	1468
Grp Volume(v), veh/h	173	557	85	242	642	80	57	268	77	125	380	193
Grp Sat Flow(s),veh/h/ln	1596	1641	1468	1596	1641	1468	1596	1727	1468	1596	1641	1468
Q Serve(g_s), s	4.5	14.8	4.1	5.1	15.5	3.7	1.6	13.2	2.0	3.5	9.1	10.5
Cycle Q Clear(g_c), s	4.5	14.8	4.1	5.1	15.5	3.7	1.6	13.2	2.0	3.5	9.1	10.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	865	839	375	978	954	427	108	347	295	190	743	333
V/C Ratio(X)	0.20	0.66	0.23	0.25	0.67	0.19	0.53	0.77	0.26	0.66	0.51	0.58
Avail Cap(c_a), veh/h	865	839	375	978	1021	457	248	499	424	355	1057	473
HCM Platoon Ratio	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.74	0.74	0.74	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	31.9	37.5	23.0	23.4	28.1	23.9	42.8	34.0	7.7	41.4	30.4	31.0
Incr Delay (d2), s/veh	0.1	3.1	1.0	0.1	1.6	0.2	4.0	4.6	0.5	3.9	0.5	1.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.0	7.1	1.8	2.3	7.3	1.5	0.8	6.8	0.8	1.6	4.2	4.4
LnGrp Delay(d),s/veh	32.0	40.5	24.0	23.6	29.7	24.1	46.8	38.6	8.2	45.3	31.0	32.6
LnGrp LOS	C	D	C	C	C	C	D	D	A	D	C	C
Approach Vol, veh/h		815			964			402			698	
Approach Delay, s/veh		37.0			27.7			34.0			34.0	
Approach LOS		D			C			C			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.4	22.1	31.6	27.0	7.0	24.4	28.4	30.2
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	10.0	26.0	15.0	23.0	7.0	29.0	10.0	28.0
Max Q Clear Time (g_c+I1), s	5.5	15.2	7.1	16.8	3.6	12.5	6.5	17.5
Green Ext Time (p_c), s	0.1	2.9	2.7	1.5	0.0	3.4	0.2	3.2

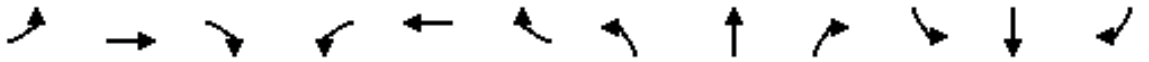
Intersection Summary	
HCM 2010 Ctrl Delay	32.7
HCM 2010 LOS	C

Intersection	
Intersection Delay, s/veh	46.7
Intersection LOS	E

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Vol, veh/h	0	291	266	65	0	51	300	119	0	66	184	16	0	23	127	132
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	316	289	71	0	55	326	129	0	72	200	17	0	25	138	143
Number of Lanes	0	0	1	1	0	0	1	1	0	0	1	0	0	0	1	1

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	2	2	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	2	1	2	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	2	2	2
HCM Control Delay	68.3	43	33.9	17.1
HCM LOS	F	E	D	C

Lane	NBLn1	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1	SBLn2
Vol Left, %	25%	52%	0%	15%	0%	15%	0%
Vol Thru, %	69%	48%	0%	85%	0%	85%	0%
Vol Right, %	6%	0%	100%	0%	100%	0%	100%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	266	557	65	351	119	150	132
LT Vol	66	291	0	51	0	23	0
Through Vol	184	266	0	300	0	127	0
RT Vol	16	0	65	0	119	0	132
Lane Flow Rate	289	605	71	382	129	163	143
Geometry Grp	6	7	7	7	7	7	7
Degree of Util (X)	0.736	1	0.154	0.906	0.279	0.419	0.338
Departure Headway (Hd)	9.167	8.827	7.827	8.548	7.773	9.258	8.481
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	396	412	457	423	462	390	425
Service Time	7.215	6.599	5.598	6.298	5.523	7.009	6.232
HCM Lane V/C Ratio	0.73	1.468	0.155	0.903	0.279	0.418	0.336
HCM Control Delay	33.9	74.9	12	53	13.5	18.6	15.5
HCM Lane LOS	D	F	B	F	B	C	C
HCM 95th-tile Q	5.8	12.3	0.5	9.7	1.1	2	1.5



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	13	157	18	54	106	21	25	96	43	57	191	11
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	14	171	20	59	115	23	27	104	47	62	208	12
Adj No. of Lanes	1	2	0	1	2	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	22	250	29	78	324	63	982	165	71	1015	296	17
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.01	0.08	0.08	0.05	0.12	0.12	0.60	0.07	0.07	0.62	0.09	0.09
Ln Grp Delay, s/veh	72.4	45.7	46.1	56.2	37.5	37.7	7.5	61.7	66.8	6.9	62.6	62.6
Ln Grp LOS	E	D	D	E	D	D	A	E	E	A	E	E
Approach Vol, veh/h		205			197			178			282	
Approach Delay, s/veh		47.7			43.2			55.6			50.4	
Approach LOS		D			D			E			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	6	5	7	8
Case No	4.0	2.0	4.0	2.0	4.0	2.0	2.0	4.0
Phs Duration (G+Y+Rc), s	10.7	59.5	11.6	8.3	12.5	57.7	5.2	14.7
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	20.0	21.0	21.0	12.0	30.0	11.0	9.0	24.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.0	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	6.3	3.4	7.1	5.2	7.8	2.6	2.8	5.6
Green Ext Time (g_e), s	0.4	0.2	0.5	0.3	0.7	0.1	0.0	0.6
Prob of Phs Call (p_c)	1.00	1.00	1.00	0.77	1.00	0.49	0.30	1.00
Prob of Max Out (p_x)	0.00	0.00	0.00	0.14	0.00	0.01	0.02	0.00

Left-Turn Movement Data								
Assigned Mvmt		1		3		5	7	
Mvmt Sat Flow, veh/h		1645		1645		1645	1645	

Through Movement Data								
Assigned Mvmt	2		4		6			8
Mvmt Sat Flow, veh/h	2239		2965		3155			2739

Right-Turn Movement Data								
Assigned Mvmt	12		14		16			18
Mvmt Sat Flow, veh/h	960		342		181			535

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	0	5	7	0
Lane Assignment		(Prot)		(Prot)		(Prot)	(Prot)	
Lanes in Grp	0	1	0	1	0	1	1	0

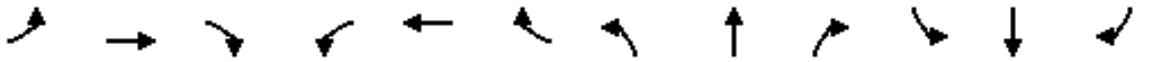
Grp Vol (v), veh/h	0	62	0	59	0	27	14	0
Grp Sat Flow (s), veh/h/ln	0	1645	0	1645	0	1645	1645	0
Q Serve Time (g_s), s	0.0	1.4	0.0	3.2	0.0	0.6	0.8	0.0
Cycle Q Clear Time (g_c), s	0.0	1.4	0.0	3.2	0.0	0.6	0.8	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	1015	0	78	0	982	22	0
V/C Ratio (X)	0.00	0.06	0.00	0.76	0.00	0.03	0.65	0.00
Avail Cap (c_a), veh/h	0	1015	0	219	0	982	165	0
Upstream Filter (I)	0.00	1.00	0.00	0.99	0.00	1.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	6.9	0.0	42.4	0.0	7.4	44.2	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	13.9	0.0	0.0	28.2	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	6.9	0.0	56.2	0.0	7.5	72.4	0.0
1st-Term Q (Q1), veh/ln	0.0	0.6	0.0	1.4	0.0	0.3	0.3	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.3	0.0	0.0	0.2	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.6	0.0	1.7	0.0	0.3	0.5	0.0
%ile Storage Ratio (RQ%)	0.00	0.12	0.00	0.27	0.00	0.04	0.07	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	6	0	0	8
Lane Assignment	T		T		T			T
Lanes in Grp	1	0	1	0	1	0	0	1
Grp Vol (v), veh/h	75	0	94	0	108	0	0	68
Grp Sat Flow (s), veh/h/ln	1641	0	1641	0	1641	0	0	1641
Q Serve Time (g_s), s	4.0	0.0	5.0	0.0	5.7	0.0	0.0	3.4
Cycle Q Clear Time (g_c), s	4.0	0.0	5.0	0.0	5.7	0.0	0.0	3.4
Lane Grp Cap (c), veh/h	121	0	138	0	154	0	0	194
V/C Ratio (X)	0.62	0.00	0.68	0.00	0.70	0.00	0.00	0.35
Avail Cap (c_a), veh/h	365	0	383	0	547	0	0	438
Upstream Filter (I)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	0.99
Uniform Delay (d1), s/veh	40.4	0.0	40.0	0.0	39.5	0.0	0.0	36.5
Incr Delay (d2), s/veh	21.2	0.0	5.7	0.0	23.1	0.0	0.0	1.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	61.7	0.0	45.7	0.0	62.6	0.0	0.0	37.5
1st-Term Q (Q1), veh/ln	1.8	0.0	2.3	0.0	2.6	0.0	0.0	1.5
2nd-Term Q (Q2), veh/ln	0.7	0.0	0.2	0.0	1.0	0.0	0.0	0.1

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	2.5	0.0	2.5	0.0	3.6	0.0	0.0	1.6
%ile Storage Ratio (RQ%)	0.15	0.00	0.01	0.00	0.01	0.00	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	16	0	0	18
Lane Assignment	T+R		T+R		T+R			T+R
Lanes in Grp	1	0	1	0	1	0	0	1
Grp Vol (v), veh/h	76	0	97	0	112	0	0	70
Grp Sat Flow (s), veh/h/ln	1558	0	1667	0	1695	0	0	1633
Q Serve Time (g_s), s	4.3	0.0	5.1	0.0	5.8	0.0	0.0	3.6
Cycle Q Clear Time (g_c), s	4.3	0.0	5.1	0.0	5.8	0.0	0.0	3.6
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.62	0.00	0.21	0.00	0.11	0.00	0.00	0.33
Lane Grp Cap (c), veh/h	115	0	140	0	159	0	0	193
V/C Ratio (X)	0.66	0.00	0.69	0.00	0.71	0.00	0.00	0.36
Avail Cap (c_a), veh/h	346	0	389	0	565	0	0	435
Upstream Filter (I)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	0.99
Uniform Delay (d1), s/veh	40.6	0.0	40.1	0.0	39.6	0.0	0.0	36.5
Incr Delay (d2), s/veh	26.2	0.0	6.0	0.0	23.1	0.0	0.0	1.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	66.8	0.0	46.1	0.0	62.6	0.0	0.0	37.7
1st-Term Q (Q1), veh/ln	1.8	0.0	2.4	0.0	2.7	0.0	0.0	1.6
2nd-Term Q (Q2), veh/ln	0.8	0.0	0.2	0.0	1.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	2.7	0.0	2.6	0.0	3.7	0.0	0.0	1.7
%ile Storage Ratio (RQ%)	0.16	0.00	0.01	0.00	0.01	0.00	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

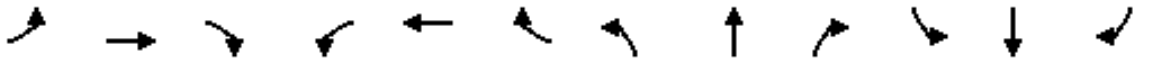
Intersection Summary	
HCM 2010 Ctrl Delay	49.2
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	13	157	18	54	106	21	25	96	43	57	191	11
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	14	171	20	59	115	23	27	104	47	62	208	12
Adj No. of Lanes	1	2	0	1	2	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	22	250	29	78	324	63	982	165	71	1015	296	17
Arrive On Green	0.01	0.08	0.08	0.05	0.12	0.12	0.60	0.07	0.07	0.62	0.09	0.09
Sat Flow, veh/h	1645	2965	342	1645	2739	535	1645	2239	960	1645	3155	181
Grp Volume(v), veh/h	14	94	97	59	68	70	27	75	76	62	108	112
Grp Sat Flow(s),veh/h/ln	1645	1641	1667	1645	1641	1633	1645	1641	1558	1645	1641	1695
Q Serve(g_s), s	0.8	5.0	5.1	3.2	3.4	3.6	0.6	4.0	4.3	1.4	5.7	5.8
Cycle Q Clear(g_c), s	0.8	5.0	5.1	3.2	3.4	3.6	0.6	4.0	4.3	1.4	5.7	5.8
Prop In Lane	1.00		0.21	1.00		0.33	1.00		0.62	1.00		0.11
Lane Grp Cap(c), veh/h	22	138	140	78	194	193	982	121	115	1015	154	159
V/C Ratio(X)	0.65	0.68	0.69	0.76	0.35	0.36	0.03	0.62	0.66	0.06	0.70	0.71
Avail Cap(c_a), veh/h	165	383	389	219	438	435	982	365	346	1015	547	565
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.99	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	44.2	40.0	40.1	42.4	36.5	36.5	7.4	40.4	40.6	6.9	39.5	39.6
Incr Delay (d2), s/veh	28.2	5.7	6.0	13.9	1.1	1.1	0.0	21.2	26.2	0.0	23.1	23.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	2.5	2.6	1.7	1.6	1.7	0.3	2.5	2.7	0.6	3.6	3.7
LnGrp Delay(d),s/veh	72.4	45.7	46.1	56.2	37.5	37.7	7.5	61.7	66.8	6.9	62.6	62.6
LnGrp LOS	E	D	D	E	D	D	A	E	E	A	E	E
Approach Vol, veh/h		205			197			178			282	
Approach Delay, s/veh		47.7			43.2			55.6			50.4	
Approach LOS		D			D			E			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	59.5	10.7	8.3	11.6	57.7	12.5	5.2	14.7
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	21.0	20.0	12.0	21.0	11.0	30.0	9.0	24.0
Max Q Clear Time (g_c+I1), s	3.4	6.3	5.2	7.1	2.6	7.8	2.8	5.6
Green Ext Time (p_c), s	0.2	0.4	0.3	0.5	0.1	0.7	0.0	0.6

Intersection Summary	
HCM 2010 Ctrl Delay	49.2
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	31	138	41	45	110	128	23	243	406	156	120	35
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	34	150	45	49	120	139	25	264	441	170	130	38
Adj No. of Lanes	1	2	0	1	2	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	42	502	146	333	618	553	34	474	424	216	1009	285
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.03	0.20	0.20	0.20	0.38	0.38	0.02	0.29	0.29	0.13	0.40	0.40
Ln Grp Delay, s/veh	70.4	32.6	32.9	29.7	19.6	20.4	70.0	28.6	86.4	44.2	17.2	17.2
Ln Grp LOS	E	C	C	C	B	C	E	C	F	D	B	B
Approach Vol, veh/h		229			308			730			338	
Approach Delay, s/veh		38.3			21.6			64.9			30.8	
Approach LOS		D			C			E			C	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	5	6	7	8
Case No	4.0	2.0	4.0	2.0	2.0	4.0	2.0	4.0
Phs Duration (G+Y+Rc), s	30.0	15.8	22.0	22.2	5.9	39.9	6.3	37.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	26.0	20.0	18.0	10.0	8.0	38.0	9.0	19.0
Max Allow Headway (MAH), s	4.2	4.1	4.1	4.2	4.1	4.1	4.1	4.2
Max Q Clear (g_c+I1), s	28.0	11.0	6.7	4.2	3.4	5.0	3.9	7.9
Green Ext Time (g_e), s	0.0	0.8	0.4	0.5	0.0	1.2	0.0	0.8
Prob of Phs Call (p_c)	1.00	1.00	1.00	0.71	0.46	1.00	0.57	1.00
Prob of Max Out (p_x)	1.00	0.08	0.00	0.42	0.45	0.00	0.24	0.00

Left-Turn Movement Data								
Assigned Mvmt		1		3	5		7	
Mvmt Sat Flow, veh/h		1645		1645	1645		1645	

Through Movement Data								
Assigned Mvmt	2		4			6		8
Mvmt Sat Flow, veh/h	1641		2510			2527		1641

Right-Turn Movement Data								
Assigned Mvmt	12		14			16		18
Mvmt Sat Flow, veh/h	1468		730			715		1468

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	5	0	7	0
Lane Assignment		(Prot)		(Prot)	(Prot)		(Prot)	
Lanes in Grp	0	1	0	1	1	0	1	0

Grp Vol (v), veh/h	0	170	0	49	25	0	34	0
Grp Sat Flow (s), veh/h/ln	0	1645	0	1645	1645	0	1645	0
Q Serve Time (g_s), s	0.0	9.0	0.0	2.2	1.4	0.0	1.9	0.0
Cycle Q Clear Time (g_c), s	0.0	9.0	0.0	2.2	1.4	0.0	1.9	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	216	0	333	34	0	42	0
V/C Ratio (X)	0.00	0.79	0.00	0.15	0.74	0.00	0.81	0.00
Avail Cap (c_a), veh/h	0	366	0	333	146	0	165	0
Upstream Filter (I)	0.00	1.00	0.00	1.00	1.00	0.00	0.88	0.00
Uniform Delay (d1), s/veh	0.0	37.9	0.0	29.5	43.8	0.0	43.6	0.0
Incr Delay (d2), s/veh	0.0	6.3	0.0	0.2	26.1	0.0	26.8	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	44.2	0.0	29.7	70.0	0.0	70.4	0.0
1st-Term Q (Q1), veh/ln	0.0	4.1	0.0	1.0	0.6	0.0	0.8	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.4	0.0	0.0	0.2	0.0	0.3	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	4.5	0.0	1.0	0.9	0.0	1.2	0.0
%ile Storage Ratio (RQ%)	0.00	1.18	0.00	0.46	0.19	0.00	0.17	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	0	6	0	8
Lane Assignment	T		T			T		T
Lanes in Grp	1	0	1	0	0	1	0	1
Grp Vol (v), veh/h	264	0	96	0	0	83	0	120
Grp Sat Flow (s), veh/h/ln	1641	0	1641	0	0	1641	0	1641
Q Serve Time (g_s), s	12.3	0.0	4.5	0.0	0.0	2.9	0.0	4.4
Cycle Q Clear Time (g_c), s	12.3	0.0	4.5	0.0	0.0	2.9	0.0	4.4
Lane Grp Cap (c), veh/h	474	0	328	0	0	655	0	618
V/C Ratio (X)	0.56	0.00	0.29	0.00	0.00	0.13	0.00	0.19
Avail Cap (c_a), veh/h	474	0	328	0	0	693	0	618
Upstream Filter (I)	1.00	0.00	0.88	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	27.1	0.0	30.6	0.0	0.0	17.1	0.0	18.9
Incr Delay (d2), s/veh	1.4	0.0	2.0	0.0	0.0	0.1	0.0	0.7
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	28.6	0.0	32.6	0.0	0.0	17.2	0.0	19.6
1st-Term Q (Q1), veh/ln	5.6	0.0	2.0	0.0	0.0	1.3	0.0	2.0
2nd-Term Q (Q2), veh/ln	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.1

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	5.8	0.0	2.2	0.0	0.0	1.3	0.0	2.1
%ile Storage Ratio (RQ%)	0.36	0.00	0.02	0.00	0.00	0.01	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data

Assigned Mvmt	12	0	14	0	0	16	0	18
Lane Assignment	T+R		T+R			T+R		T+R
Lanes in Grp	1	0	1	0	0	1	0	1
Grp Vol (v), veh/h	441	0	99	0	0	85	0	139
Grp Sat Flow (s), veh/h/ln	1468	0	1599	0	0	1601	0	1468
Q Serve Time (g_s), s	26.0	0.0	4.7	0.0	0.0	3.0	0.0	5.9
Cycle Q Clear Time (g_c), s	26.0	0.0	4.7	0.0	0.0	3.0	0.0	5.9
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.46	0.00	0.00	0.45	0.00	1.00
Lane Grp Cap (c), veh/h	424	0	320	0	0	639	0	553
V/C Ratio (X)	1.04	0.00	0.31	0.00	0.00	0.13	0.00	0.25
Avail Cap (c_a), veh/h	424	0	320	0	0	676	0	553
Upstream Filter (I)	1.00	0.00	0.88	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	32.0	0.0	30.7	0.0	0.0	17.1	0.0	19.3
Incr Delay (d2), s/veh	54.4	0.0	2.2	0.0	0.0	0.1	0.0	1.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	86.4	0.0	32.9	0.0	0.0	17.2	0.0	20.4
1st-Term Q (Q1), veh/ln	10.5	0.0	2.1	0.0	0.0	1.3	0.0	2.4
2nd-Term Q (Q2), veh/ln	6.4	0.0	0.2	0.0	0.0	0.0	0.0	0.2
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	16.9	0.0	2.3	0.0	0.0	1.4	0.0	2.5
%ile Storage Ratio (RQ%)	1.07	0.00	0.02	0.00	0.00	0.01	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary

HCM 2010 Ctrl Delay	45.6
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	31	138	41	45	110	128	23	243	406	156	120	35
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	34	150	45	49	120	139	25	264	441	170	130	38
Adj No. of Lanes	1	2	0	1	2	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	42	502	146	333	618	553	34	474	424	216	1009	285
Arrive On Green	0.03	0.20	0.20	0.20	0.38	0.38	0.02	0.29	0.29	0.13	0.40	0.40
Sat Flow, veh/h	1645	2510	730	1645	1641	1468	1645	1641	1468	1645	2527	715
Grp Volume(v), veh/h	34	96	99	49	120	139	25	264	441	170	83	85
Grp Sat Flow(s),veh/h/ln	1645	1641	1599	1645	1641	1468	1645	1641	1468	1645	1641	1601
Q Serve(g_s), s	1.9	4.5	4.7	2.2	4.4	5.9	1.4	12.3	26.0	9.0	2.9	3.0
Cycle Q Clear(g_c), s	1.9	4.5	4.7	2.2	4.4	5.9	1.4	12.3	26.0	9.0	2.9	3.0
Prop In Lane	1.00		0.46	1.00		1.00	1.00		1.00	1.00		0.45
Lane Grp Cap(c), veh/h	42	328	320	333	618	553	34	474	424	216	655	639
V/C Ratio(X)	0.81	0.29	0.31	0.15	0.19	0.25	0.74	0.56	1.04	0.79	0.13	0.13
Avail Cap(c_a), veh/h	165	328	320	333	618	553	146	474	424	366	693	676
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.88	0.88	0.88	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	43.6	30.6	30.7	29.5	18.9	19.3	43.8	27.1	32.0	37.9	17.1	17.1
Incr Delay (d2), s/veh	26.8	2.0	2.2	0.2	0.7	1.1	26.1	1.4	54.4	6.3	0.1	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.2	2.2	2.3	1.0	2.1	2.5	0.9	5.8	16.9	4.5	1.3	1.4
LnGrp Delay(d),s/veh	70.4	32.6	32.9	29.7	19.6	20.4	70.0	28.6	86.4	44.2	17.2	17.2
LnGrp LOS	E	C	C	C	B	C	E	C	F	D	B	B
Approach Vol, veh/h		229			308			730			338	
Approach Delay, s/veh		38.3			21.6			64.9			30.8	
Approach LOS		D			C			E			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	15.8	30.0	22.2	22.0	5.9	39.9	6.3	37.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	20.0	26.0	10.0	18.0	8.0	38.0	9.0	19.0
Max Q Clear Time (g_c+I1), s	11.0	28.0	4.2	6.7	3.4	5.0	3.9	7.9
Green Ext Time (p_c), s	0.8	0.0	0.5	0.4	0.0	1.2	0.0	0.8

Intersection Summary	
HCM 2010 Ctrl Delay	45.6
HCM 2010 LOS	D

Intersection	
Int Delay, s/veh	3.2

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	151	256	29	82	108	29
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	164	278	32	89	117	32

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	442	0	455	303
Stage 1	-	-	-	-	303	-
Stage 2	-	-	-	-	152	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	1077	-	549	718
Stage 1	-	-	-	-	731	-
Stage 2	-	-	-	-	857	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1077	-	532	718
Mov Cap-2 Maneuver	-	-	-	-	532	-
Stage 1	-	-	-	-	731	-
Stage 2	-	-	-	-	830	-

Approach	EB	WB	NB
HCM Control Delay, s	0	2.2	13.7
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	563	-	-	1077	-
HCM Lane V/C Ratio	0.264	-	-	0.029	-
HCM Control Delay (s)	13.7	-	-	8.4	0
HCM Lane LOS	B	-	-	A	A
HCM 95th %tile Q(veh)	1.1	-	-	0.1	-

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	93	622	55	102	504	129	68	239	119	69	528	37
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	101	676	60	111	548	140	74	260	129	75	574	40
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	127	785	351	163	858	384	93	312	265	967	1402	627
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.08	0.24	0.24	0.10	0.26	0.26	0.06	0.18	0.18	0.30	0.43	0.43
Ln Grp Delay, s/veh	51.7	39.8	18.0	43.3	30.4	6.5	55.9	57.7	39.3	22.4	18.6	15.3
Ln Grp LOS	D	D	B	D	C	A	E	E	D	C	B	B
Approach Vol, veh/h		837			799			463			689	
Approach Delay, s/veh		39.7			28.0			52.3			18.8	
Approach LOS		D			C			D			B	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	5	6	7	8
Case No	3.0	2.0	3.0	2.0	2.0	3.0	2.0	3.0
Phs Duration (G+Y+Rc), s	20.3	31.3	25.5	12.9	9.1	42.5	10.9	27.5
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	30.0	5.0	26.0	13.0	10.0	25.0	12.0	27.0
Max Allow Headway (MAH), s	4.1	4.0	4.0	4.1	4.1	4.0	4.1	4.1
Max Q Clear (g_c+I1), s	15.1	3.5	19.8	7.9	6.0	12.9	7.4	15.3
Green Ext Time (g_e), s	1.2	0.5	1.8	1.6	0.1	2.4	0.1	2.7
Prob of Phs Call (p_c)	1.00	0.85	1.00	0.94	0.84	1.00	0.92	1.00
Prob of Max Out (p_x)	0.01	1.00	0.51	0.75	1.00	0.07	0.65	0.12

Left-Turn Movement Data								
Assigned Mvmt		1		3	5		7	
Mvmt Sat Flow, veh/h		3191		1645	1645		1645	

Through Movement Data								
Assigned Mvmt	2		4			6		8
Mvmt Sat Flow, veh/h	1727		3282			3282		3282

Right-Turn Movement Data								
Assigned Mvmt	12		14			16		18
Mvmt Sat Flow, veh/h	1468		1468			1468		1468

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	5	0	7	0
Lane Assignment		(Prot)		(Prot)	(Prot)		(Prot)	
Lanes in Grp	0	2	0	1	1	0	1	0

Grp Vol (v), veh/h	0	75	0	111	74	0	101	0
Grp Sat Flow (s), veh/h/ln	0	1596	0	1645	1645	0	1645	0
Q Serve Time (g_s), s	0.0	1.5	0.0	5.9	4.0	0.0	5.4	0.0
Cycle Q Clear Time (g_c), s	0.0	1.5	0.0	5.9	4.0	0.0	5.4	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	967	0	163	93	0	127	0
V/C Ratio (X)	0.00	0.08	0.00	0.68	0.79	0.00	0.80	0.00
Avail Cap (c_a), veh/h	0	967	0	238	183	0	219	0
Upstream Filter (I)	0.00	0.82	0.00	0.83	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	22.4	0.0	39.2	41.9	0.0	40.9	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	4.1	14.0	0.0	10.8	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	22.4	0.0	43.3	55.9	0.0	51.7	0.0
1st-Term Q (Q1), veh/ln	0.0	0.7	0.0	2.7	1.8	0.0	2.5	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.2	0.4	0.0	0.4	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.7	0.0	2.8	2.2	0.0	2.9	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	0	6	0	8
Lane Assignment	T		T			T		T
Lanes in Grp	1	0	2	0	0	2	0	2
Grp Vol (v), veh/h	260	0	676	0	0	574	0	548
Grp Sat Flow (s), veh/h/ln	1727	0	1641	0	0	1641	0	1641
Q Serve Time (g_s), s	13.1	0.0	17.8	0.0	0.0	10.9	0.0	13.3
Cycle Q Clear Time (g_c), s	13.1	0.0	17.8	0.0	0.0	10.9	0.0	13.3
Lane Grp Cap (c), veh/h	312	0	785	0	0	1402	0	858
V/C Ratio (X)	0.83	0.00	0.86	0.00	0.00	0.41	0.00	0.64
Avail Cap (c_a), veh/h	576	0	948	0	0	1402	0	985
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.00	0.82	0.00	0.83
Uniform Delay (d1), s/veh	35.5	0.0	32.8	0.0	0.0	17.9	0.0	29.5
Incr Delay (d2), s/veh	22.1	0.0	7.0	0.0	0.0	0.7	0.0	0.9
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	57.7	0.0	39.8	0.0	0.0	18.6	0.0	30.4
1st-Term Q (Q1), veh/ln	6.2	0.0	8.1	0.0	0.0	4.9	0.0	6.0
2nd-Term Q (Q2), veh/ln	1.9	0.0	0.8	0.0	0.0	0.1	0.0	0.1

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	8.1	0.0	8.8	0.0	0.0	5.1	0.0	6.1
%ile Storage Ratio (RQ%)	0.06	0.00	0.01	0.00	0.00	0.01	0.00	0.03
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

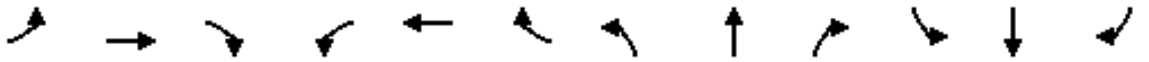
Right Lane Group Data								
Assigned Mvmt	12	0	14	0	0	16	0	18
Lane Assignment	R		R			R		R
Lanes in Grp	1	0	1	0	0	1	0	1
Grp Vol (v), veh/h	129	0	60	0	0	40	0	140
Grp Sat Flow (s), veh/h/ln	1468	0	1468	0	0	1468	0	1468
Q Serve Time (g_s), s	7.1	0.0	2.4	0.0	0.0	1.4	0.0	3.3
Cycle Q Clear Time (g_c), s	7.1	0.0	2.4	0.0	0.0	1.4	0.0	3.3
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	265	0	351	0	0	627	0	384
V/C Ratio (X)	0.49	0.00	0.17	0.00	0.00	0.06	0.00	0.36
Avail Cap (c_a), veh/h	489	0	424	0	0	627	0	440
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.00	0.82	0.00	0.83
Uniform Delay (d1), s/veh	33.1	0.0	17.8	0.0	0.0	15.2	0.0	6.0
Incr Delay (d2), s/veh	6.2	0.0	0.2	0.0	0.0	0.2	0.0	0.5
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	39.3	0.0	18.0	0.0	0.0	15.3	0.0	6.5
1st-Term Q (Q1), veh/ln	2.9	0.0	1.0	0.0	0.0	0.6	0.0	1.3
2nd-Term Q (Q2), veh/ln	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	3.4	0.0	1.0	0.0	0.0	0.6	0.0	1.4
%ile Storage Ratio (RQ%)	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	33.3
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	93	622	55	102	504	129	68	239	119	69	528	37
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	101	676	60	111	548	140	74	260	129	75	574	40
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	127	785	351	163	858	384	93	312	265	967	1402	627
Arrive On Green	0.08	0.24	0.24	0.10	0.26	0.26	0.06	0.18	0.18	0.30	0.43	0.43
Sat Flow, veh/h	1645	3282	1468	1645	3282	1468	1645	1727	1468	3191	3282	1468
Grp Volume(v), veh/h	101	676	60	111	548	140	74	260	129	75	574	40
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1641	1468	1645	1727	1468	1596	1641	1468
Q Serve(g_s), s	5.4	17.8	2.4	5.9	13.3	3.3	4.0	13.1	7.1	1.5	10.9	1.4
Cycle Q Clear(g_c), s	5.4	17.8	2.4	5.9	13.3	3.3	4.0	13.1	7.1	1.5	10.9	1.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	127	785	351	163	858	384	93	312	265	967	1402	627
V/C Ratio(X)	0.80	0.86	0.17	0.68	0.64	0.36	0.79	0.83	0.49	0.08	0.41	0.06
Avail Cap(c_a), veh/h	219	948	424	238	985	440	183	576	489	967	1402	627
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.83	0.83	0.83	1.00	1.00	1.00	0.82	0.82	0.82
Uniform Delay (d), s/veh	40.9	32.8	17.8	39.2	29.5	6.0	41.9	35.5	33.1	22.4	17.9	15.2
Incr Delay (d2), s/veh	10.8	7.0	0.2	4.1	0.9	0.5	14.0	22.1	6.2	0.0	0.7	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.9	8.8	1.0	2.8	6.1	1.4	2.2	8.1	3.4	0.7	5.1	0.6
LnGrp Delay(d),s/veh	51.7	39.8	18.0	43.3	30.4	6.5	55.9	57.7	39.3	22.4	18.6	15.3
LnGrp LOS	D	D	B	D	C	A	E	E	D	C	B	B
Approach Vol, veh/h		837			799			463			689	
Approach Delay, s/veh		39.7			28.0			52.3			18.8	
Approach LOS		D			C			D			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	31.3	20.3	12.9	25.5	9.1	42.5	10.9	27.5
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	30.0	30.0	13.0	26.0	10.0	25.0	12.0	27.0
Max Q Clear Time (g_c+I1), s	13.5	15.1	7.9	19.8	6.0	12.9	7.4	15.3
Green Ext Time (p_c), s	0.5	1.2	1.6	1.8	0.1	2.4	0.1	2.7

Intersection Summary	
HCM 2010 Ctrl Delay	33.3
HCM 2010 LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	90	776	115	117	486	45	109	372	157	178	599	48
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	98	843	125	127	528	49	118	404	171	193	651	52
Adj No. of Lanes	2	2	1	2	2	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	508	984	440	191	659	295	912	636	198	1045	833	259
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.16	0.30	0.30	0.06	0.20	0.20	0.29	0.13	0.13	0.33	0.18	0.18
Ln Grp Delay, s/veh	33.0	33.3	5.5	44.4	36.0	29.9	23.9	38.2	39.2	21.7	41.3	33.0
Ln Grp LOS	C	C	A	D	D	C	C	D	D	C	D	C
Approach Vol, veh/h		1066			704			693			896	
Approach Delay, s/veh		30.0			37.1			36.0			36.6	
Approach LOS		C			D			D			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	6	5	8	7
Case No	3.0	2.0	2.0	3.0	3.0	2.0	3.0	2.0
Phs Duration (G+Y+Rc), s	16.1	33.5	9.4	31.0	19.9	29.7	22.1	18.3
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	19.0	12.0	9.0	34.0	22.0	9.0	35.0	8.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.0	4.1	4.0	4.1
Max Q Clear (g_c+I1), s	10.5	5.9	5.5	23.8	13.9	4.5	15.8	4.4
Green Ext Time (g_e), s	1.6	0.6	0.1	3.2	2.0	0.5	2.3	1.7
Prob of Phs Call (p_c)	1.00	0.99	0.96	1.00	1.00	0.95	1.00	0.91
Prob of Max Out (p_x)	0.19	0.30	1.00	0.29	0.26	0.78	0.00	1.00

Left-Turn Movement Data								
Assigned Mvmt		1	3			5		7
Mvmt Sat Flow, veh/h		3191	3191			3191		3191

Through Movement Data								
Assigned Mvmt	2			4	6		8	
Mvmt Sat Flow, veh/h	4715			3282	4715		3282	

Right-Turn Movement Data								
Assigned Mvmt	12			14	16		18	
Mvmt Sat Flow, veh/h	1468			1468	1468		1468	

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	0	5	0	7
Lane Assignment		(Prot)	(Prot)			(Prot)		(Prot)
Lanes in Grp	0	2	2	0	0	2	0	2

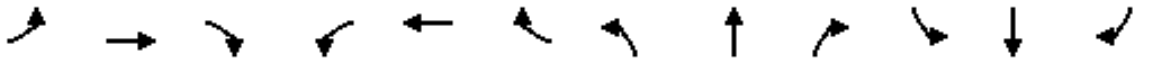
Grp Vol (v), veh/h	0	193	127	0	0	118	0	98
Grp Sat Flow (s), veh/h/ln	0	1596	1596	0	0	1596	0	1596
Q Serve Time (g_s), s	0.0	3.9	3.5	0.0	0.0	2.5	0.0	2.4
Cycle Q Clear Time (g_c), s	0.0	3.9	3.5	0.0	0.0	2.5	0.0	2.4
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	1045	191	0	0	912	0	508
V/C Ratio (X)	0.00	0.18	0.66	0.00	0.00	0.13	0.00	0.19
Avail Cap (c_a), veh/h	0	1045	319	0	0	912	0	508
Upstream Filter (I)	0.00	0.80	0.76	0.00	0.00	0.28	0.00	0.70
Uniform Delay (d1), s/veh	0.0	21.7	41.4	0.0	0.0	23.8	0.0	32.8
Incr Delay (d2), s/veh	0.0	0.1	3.0	0.0	0.0	0.0	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	21.7	44.4	0.0	0.0	23.9	0.0	33.0
1st-Term Q (Q1), veh/ln	0.0	1.7	1.6	0.0	0.0	1.1	0.0	1.1
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.7	1.6	0.0	0.0	1.1	0.0	1.1
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	6	0	8	0
Lane Assignment	T			T	T		T	
Lanes in Grp	3	0	0	2	3	0	2	0
Grp Vol (v), veh/h	404	0	0	843	651	0	528	0
Grp Sat Flow (s), veh/h/ln	1572	0	0	1641	1572	0	1641	0
Q Serve Time (g_s), s	7.3	0.0	0.0	21.8	11.9	0.0	13.8	0.0
Cycle Q Clear Time (g_c), s	7.3	0.0	0.0	21.8	11.9	0.0	13.8	0.0
Lane Grp Cap (c), veh/h	636	0	0	984	833	0	659	0
V/C Ratio (X)	0.64	0.00	0.00	0.86	0.78	0.00	0.80	0.00
Avail Cap (c_a), veh/h	995	0	0	1240	1153	0	1276	0
Upstream Filter (I)	0.28	0.00	0.00	0.70	0.80	0.00	0.76	0.00
Uniform Delay (d1), s/veh	36.8	0.0	0.0	29.7	35.4	0.0	34.3	0.0
Incr Delay (d2), s/veh	1.3	0.0	0.0	3.6	5.9	0.0	1.8	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	38.2	0.0	0.0	33.3	41.3	0.0	36.0	0.0
1st-Term Q (Q1), veh/ln	3.2	0.0	0.0	9.8	5.1	0.0	6.2	0.0
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.0	0.5	0.5	0.0	0.2	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	3.3	0.0	0.0	10.3	5.6	0.0	6.4	0.0
%ile Storage Ratio (RQ%)	0.01	0.00	0.00	0.05	0.01	0.00	0.01	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	0	14	16	0	18	0
Lane Assignment	R			R	R		R	
Lanes in Grp	1	0	0	1	1	0	1	0
Grp Vol (v), veh/h	171	0	0	125	52	0	49	0
Grp Sat Flow (s), veh/h/ln	1468	0	0	1468	1468	0	1468	0
Q Serve Time (g_s), s	8.5	0.0	0.0	2.7	2.7	0.0	2.5	0.0
Cycle Q Clear Time (g_c), s	8.5	0.0	0.0	2.7	2.7	0.0	2.5	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	198	0	0	440	259	0	295	0
V/C Ratio (X)	0.86	0.00	0.00	0.28	0.20	0.00	0.17	0.00
Avail Cap (c_a), veh/h	310	0	0	555	359	0	571	0
Upstream Filter (I)	0.28	0.00	0.00	0.70	0.80	0.00	0.76	0.00
Uniform Delay (d1), s/veh	26.1	0.0	0.0	5.2	31.6	0.0	29.7	0.0
Incr Delay (d2), s/veh	13.0	0.0	0.0	0.2	1.4	0.0	0.2	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	39.2	0.0	0.0	5.5	33.0	0.0	29.9	0.0
1st-Term Q (Q1), veh/ln	3.4	0.0	0.0	1.1	1.1	0.0	1.0	0.0
2nd-Term Q (Q2), veh/ln	0.7	0.0	0.0	0.0	0.1	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	4.2	0.0	0.0	1.1	1.2	0.0	1.0	0.0
%ile Storage Ratio (RQ%)	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

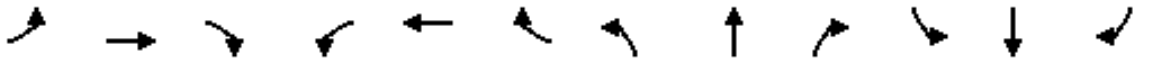
Intersection Summary	
HCM 2010 Ctrl Delay	34.5
HCM 2010 LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	90	776	115	117	486	45	109	372	157	178	599	48
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	98	843	125	127	528	49	118	404	171	193	651	52
Adj No. of Lanes	2	2	1	2	2	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	508	984	440	191	659	295	912	636	198	1045	833	259
Arrive On Green	0.16	0.30	0.30	0.06	0.20	0.20	0.29	0.13	0.13	0.33	0.18	0.18
Sat Flow, veh/h	3191	3282	1468	3191	3282	1468	3191	4715	1468	3191	4715	1468
Grp Volume(v), veh/h	98	843	125	127	528	49	118	404	171	193	651	52
Grp Sat Flow(s),veh/h/ln	1596	1641	1468	1596	1641	1468	1596	1572	1468	1596	1572	1468
Q Serve(g_s), s	2.4	21.8	2.7	3.5	13.8	2.5	2.5	7.3	8.5	3.9	11.9	2.7
Cycle Q Clear(g_c), s	2.4	21.8	2.7	3.5	13.8	2.5	2.5	7.3	8.5	3.9	11.9	2.7
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	508	984	440	191	659	295	912	636	198	1045	833	259
V/C Ratio(X)	0.19	0.86	0.28	0.66	0.80	0.17	0.13	0.64	0.86	0.18	0.78	0.20
Avail Cap(c_a), veh/h	508	1240	555	319	1276	571	912	995	310	1045	1153	359
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.70	0.70	0.70	0.76	0.76	0.76	0.28	0.28	0.28	0.80	0.80	0.80
Uniform Delay (d), s/veh	32.8	29.7	5.2	41.4	34.3	29.7	23.8	36.8	26.1	21.7	35.4	31.6
Incr Delay (d2), s/veh	0.1	3.6	0.2	3.0	1.8	0.2	0.0	1.3	13.0	0.1	5.9	1.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.1	10.3	1.1	1.6	6.4	1.0	1.1	3.3	4.2	1.7	5.6	1.2
LnGrp Delay(d),s/veh	33.0	33.3	5.5	44.4	36.0	29.9	23.9	38.2	39.2	21.7	41.3	33.0
LnGrp LOS	C	C	A	D	D	C	C	D	D	C	D	C
Approach Vol, veh/h		1066			704			693			896	
Approach Delay, s/veh		30.0			37.1			36.0			36.6	
Approach LOS		C			D			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	33.5	16.1	9.4	31.0	29.7	19.9	18.3	22.1
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	29.5	19.0	9.0	34.0	9.0	22.0	8.0	35.0
Max Q Clear Time (g_c+I1), s	5.9	10.5	5.5	23.8	4.5	13.9	4.4	15.8
Green Ext Time (p_c), s	0.6	1.6	0.1	3.2	0.5	2.0	1.7	2.3

Intersection Summary	
HCM 2010 Ctrl Delay	34.5
HCM 2010 LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	158	267	72	104	518	63	81	813	114	85	467	55
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	172	290	78	113	563	68	88	884	124	92	508	60
Adj No. of Lanes	2	3	1	2	3	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	247	898	280	177	794	247	144	1112	346	1087	2505	780
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.08	0.19	0.19	0.06	0.17	0.17	0.05	0.24	0.24	0.34	0.53	0.53
Ln Grp Delay, s/veh	44.0	31.6	31.7	45.4	36.6	8.2	46.4	38.2	21.8	20.2	11.3	10.5
Ln Grp LOS	D	C	C	D	D	A	D	D	C	C	B	B
Approach Vol, veh/h		540			744			1096			660	
Approach Delay, s/veh		35.6			35.4			37.0			12.4	
Approach LOS		D			D			D			B	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	5	6	7	8
Case No	3.0	2.0	2.0	3.0	2.0	3.0	2.0	3.0
Phs Duration (G+Y+Rc), s	25.2	34.6	9.0	21.1	8.1	51.8	11.0	19.2
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	28.0	11.0	12.0	23.0	11.0	28.0	14.0	21.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	17.9	3.8	5.1	6.8	4.4	7.1	6.7	12.1
Green Ext Time (g_e), s	3.4	1.7	0.2	4.0	0.1	2.7	0.3	3.0
Prob of Phs Call (p_c)	1.00	0.90	0.94	1.00	0.89	1.00	0.99	1.00
Prob of Max Out (p_x)	0.26	0.33	0.06	0.07	0.07	0.00	0.07	0.34

Left-Turn Movement Data								
Assigned Mvmt		1	3		5		7	
Mvmt Sat Flow, veh/h		3191	3191		3191		3191	

Through Movement Data								
Assigned Mvmt	2			4		6		8
Mvmt Sat Flow, veh/h	4715			4715		4715		4715

Right-Turn Movement Data								
Assigned Mvmt	12			14		16		18
Mvmt Sat Flow, veh/h	1468			1468		1468		1468

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	5	0	7	0
Lane Assignment		(Prot)	(Prot)		(Prot)		(Prot)	
Lanes in Grp	0	2	2	0	2	0	2	0

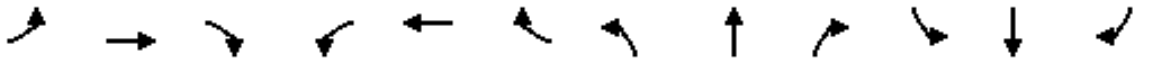
Grp Vol (v), veh/h	0	92	113	0	88	0	172	0
Grp Sat Flow (s), veh/h/ln	0	1596	1596	0	1596	0	1596	0
Q Serve Time (g_s), s	0.0	1.8	3.1	0.0	2.4	0.0	4.7	0.0
Cycle Q Clear Time (g_c), s	0.0	1.8	3.1	0.0	2.4	0.0	4.7	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	1087	177	0	144	0	247	0
V/C Ratio (X)	0.00	0.08	0.64	0.00	0.61	0.00	0.70	0.00
Avail Cap (c_a), veh/h	0	1087	426	0	390	0	496	0
Upstream Filter (I)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	20.2	41.6	0.0	42.2	0.0	40.5	0.0
Incr Delay (d2), s/veh	0.0	0.0	3.8	0.0	4.2	0.0	3.5	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	20.2	45.4	0.0	46.4	0.0	44.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.8	1.4	0.0	1.1	0.0	2.1	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.8	1.5	0.0	1.2	0.0	2.2	0.0
%ile Storage Ratio (RQ%)	0.00	0.01	0.03	0.00	0.01	0.00	0.03	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	0	6	0	8
Lane Assignment	T			T		T		T
Lanes in Grp	3	0	0	3	0	3	0	3
Grp Vol (v), veh/h	884	0	0	290	0	508	0	563
Grp Sat Flow (s), veh/h/ln	1572	0	0	1572	0	1572	0	1572
Q Serve Time (g_s), s	15.9	0.0	0.0	4.8	0.0	5.1	0.0	10.1
Cycle Q Clear Time (g_c), s	15.9	0.0	0.0	4.8	0.0	5.1	0.0	10.1
Lane Grp Cap (c), veh/h	1112	0	0	898	0	2505	0	794
V/C Ratio (X)	0.79	0.00	0.00	0.32	0.00	0.20	0.00	0.71
Avail Cap (c_a), veh/h	1467	0	0	1205	0	2505	0	1100
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	32.3	0.0	0.0	31.4	0.0	11.1	0.0	35.3
Incr Delay (d2), s/veh	5.9	0.0	0.0	0.2	0.0	0.2	0.0	1.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	38.2	0.0	0.0	31.6	0.0	11.3	0.0	36.6
1st-Term Q (Q1), veh/ln	6.9	0.0	0.0	2.1	0.0	2.2	0.0	4.4
2nd-Term Q (Q2), veh/ln	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.1

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	7.5	0.0	0.0	2.1	0.0	2.3	0.0	4.5
%ile Storage Ratio (RQ%)	0.04	0.00	0.00	0.03	0.00	0.02	0.00	0.09
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	0	14	0	16	0	18
Lane Assignment	R			R		R		R
Lanes in Grp	1	0	0	1	0	1	0	1
Grp Vol (v), veh/h	124	0	0	78	0	60	0	68
Grp Sat Flow (s), veh/h/ln	1468	0	0	1468	0	1468	0	1468
Q Serve Time (g_s), s	5.1	0.0	0.0	4.1	0.0	1.8	0.0	1.8
Cycle Q Clear Time (g_c), s	5.1	0.0	0.0	4.1	0.0	1.8	0.0	1.8
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	346	0	0	280	0	780	0	247
V/C Ratio (X)	0.36	0.00	0.00	0.28	0.00	0.08	0.00	0.27
Avail Cap (c_a), veh/h	457	0	0	375	0	780	0	343
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	18.9	0.0	0.0	31.1	0.0	10.3	0.0	7.6
Incr Delay (d2), s/veh	2.9	0.0	0.0	0.5	0.0	0.2	0.0	0.6
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	21.8	0.0	0.0	31.7	0.0	10.5	0.0	8.2
1st-Term Q (Q1), veh/ln	2.1	0.0	0.0	1.7	0.0	0.7	0.0	0.7
2nd-Term Q (Q2), veh/ln	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	2.4	0.0	0.0	1.7	0.0	0.8	0.0	0.7
%ile Storage Ratio (RQ%)	0.01	0.00	0.00	0.02	0.00	0.01	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	31.0
HCM 2010 LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	158	267	72	104	518	63	81	813	114	85	467	55
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	172	290	78	113	563	68	88	884	124	92	508	60
Adj No. of Lanes	2	3	1	2	3	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	247	898	280	177	794	247	144	1112	346	1087	2505	780
Arrive On Green	0.08	0.19	0.19	0.06	0.17	0.17	0.05	0.24	0.24	0.34	0.53	0.53
Sat Flow, veh/h	3191	4715	1468	3191	4715	1468	3191	4715	1468	3191	4715	1468
Grp Volume(v), veh/h	172	290	78	113	563	68	88	884	124	92	508	60
Grp Sat Flow(s),veh/h/ln	1596	1572	1468	1596	1572	1468	1596	1572	1468	1596	1572	1468
Q Serve(g_s), s	4.7	4.8	4.1	3.1	10.1	1.8	2.4	15.9	5.1	1.8	5.1	1.8
Cycle Q Clear(g_c), s	4.7	4.8	4.1	3.1	10.1	1.8	2.4	15.9	5.1	1.8	5.1	1.8
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	247	898	280	177	794	247	144	1112	346	1087	2505	780
V/C Ratio(X)	0.70	0.32	0.28	0.64	0.71	0.27	0.61	0.79	0.36	0.08	0.20	0.08
Avail Cap(c_a), veh/h	496	1205	375	426	1100	343	390	1467	457	1087	2505	780
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	40.5	31.4	31.1	41.6	35.3	7.6	42.2	32.3	18.9	20.2	11.1	10.3
Incr Delay (d2), s/veh	3.5	0.2	0.5	3.8	1.3	0.6	4.2	5.9	2.9	0.0	0.2	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.2	2.1	1.7	1.5	4.5	0.7	1.2	7.5	2.4	0.8	2.3	0.8
LnGrp Delay(d),s/veh	44.0	31.6	31.7	45.4	36.6	8.2	46.4	38.2	21.8	20.2	11.3	10.5
LnGrp LOS	D	C	C	D	D	A	D	D	C	C	B	B
Approach Vol, veh/h		540			744			1096			660	
Approach Delay, s/veh		35.6			35.4			37.0			12.4	
Approach LOS		D			D			D			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	34.6	25.2	9.0	21.1	8.1	51.8	11.0	19.2
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	30.0	28.0	12.0	23.0	11.0	28.0	14.0	21.0
Max Q Clear Time (g_c+I1), s	3.8	17.9	5.1	6.8	4.4	7.1	6.7	12.1
Green Ext Time (p_c), s	1.7	3.4	0.2	4.0	0.1	2.7	0.3	3.0

Intersection Summary	
HCM 2010 Ctrl Delay	31.0
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	83	808	394	148	630	7	566	72	52	15	130	100
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	90	878	428	161	685	8	724	0	0	16	141	109
Adj No. of Lanes	1	2	1	1	3	0	2	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	113	912	408	165	1485	17	881	844	0	0	160	123
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00
Prop Arrive On Green	0.07	0.28	0.28	0.10	0.31	0.31	0.09	0.00	0.00	0.00	0.18	0.18
Ln Grp Delay, s/veh	46.7	44.0	75.3	104.0	25.4	25.7	43.5	0.0	0.0	0.0	0.0	66.6
Ln Grp LOS	D	D	F	F	C	C	D					E
Approach Vol, veh/h		1396			854			724			250	
Approach Delay, s/veh		53.8			40.3			43.5			66.6	
Approach LOS		D			D			D			E	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	6	5	7	8
Case No	0.0	4.0	3.0	2.0	4.0	2.0	2.0	4.0
Phs Duration (G+Y+Rc), s	0.0	48.0	29.0	13.0	19.9	28.1	10.2	31.8
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	4.0	36.0	25.0	9.0	18.0	22.0	10.0	24.0
Max Allow Headway (MAH), s	0.0	0.0	4.1	4.0	4.2	4.1	4.1	4.0
Max Q Clear (g_c+I1), s	0.0	0.0	27.0	10.8	15.7	21.5	6.9	12.4
Green Ext Time (g_e), s	0.0	0.0	0.0	0.0	0.2	0.2	0.1	2.7
Prob of Phs Call (p_c)	0.00	1.00	1.00	0.98	1.00	1.00	0.89	1.00
Prob of Max Out (p_x)	0.00	0.00	1.00	1.00	1.00	1.00	1.00	0.14

Left-Turn Movement Data								
Assigned Mvmt	1			3		5	7	
Mvmt Sat Flow, veh/h	0			1645		3290	1645	

Through Movement Data								
Assigned Mvmt		2	4		6			8
Mvmt Sat Flow, veh/h		1727	3282		905			4805

Right-Turn Movement Data								
Assigned Mvmt		12	14		16			18
Mvmt Sat Flow, veh/h		0	1468		699			56

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	0	5	7	0
Lane Assignment				(Prot)		(Prot)	(Prot)	
Lanes in Grp	0	0	0	1	0	2	1	0

Grp Vol (v), veh/h	0	0	0	161	0	724	90	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1645	0	1645	1645	0
Q Serve Time (g_s), s	0.0	0.0	0.0	8.8	0.0	19.5	4.9	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	8.8	0.0	19.5	4.9	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	0	0	165	0	881	113	0
V/C Ratio (X)	0.00	0.00	0.00	0.98	0.00	0.82	0.80	0.00
Avail Cap (c_a), veh/h	0	0	0	165	0	881	183	0
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.72	0.42	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	40.4	0.0	38.9	41.3	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	63.6	0.0	4.6	5.4	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	104.0	0.0	43.5	46.7	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	4.0	0.0	8.9	2.2	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	2.9	0.0	0.6	0.2	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	6.9	0.0	9.5	2.4	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.56	0.00	0.81	0.43	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	6	0	0	8
Lane Assignment		T	T					T
Lanes in Grp	0	1	2	0	0	0	0	2
Grp Vol (v), veh/h	0	0	878	0	0	0	0	448
Grp Sat Flow (s), veh/h/ln	0	1727	1641	0	0	0	0	1572
Q Serve Time (g_s), s	0.0	0.0	23.7	0.0	0.0	0.0	0.0	10.3
Cycle Q Clear Time (g_c), s	0.0	0.0	23.7	0.0	0.0	0.0	0.0	10.3
Lane Grp Cap (c), veh/h	0	844	912	0	0	0	0	972
V/C Ratio (X)	0.00	0.00	0.96	0.00	0.00	0.00	0.00	0.46
Avail Cap (c_a), veh/h	0	844	912	0	0	0	0	972
Upstream Filter (I)	0.00	0.00	0.42	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	32.0	0.0	0.0	0.0	0.0	25.0
Incr Delay (d2), s/veh	0.0	0.0	11.9	0.0	0.0	0.0	0.0	0.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	44.0	0.0	0.0	0.0	0.0	25.4
1st-Term Q (Q1), veh/ln	0.0	0.0	10.7	0.0	0.0	0.0	0.0	4.5
2nd-Term Q (Q2), veh/ln	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	12.2	0.0	0.0	0.0	0.0	4.5
%ile Storage Ratio (RQ%)	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.22
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	14	0	16	0	0	18
Lane Assignment			R		T+R			T+R
Lanes in Grp	0	0	1	0	1	0	0	1
Grp Vol (v), veh/h	0	0	428	0	250	0	0	245
Grp Sat Flow (s), veh/h/ln	0	0	1468	0	1604	0	0	1717
Q Serve Time (g_s), s	0.0	0.0	25.0	0.0	13.7	0.0	0.0	10.4
Cycle Q Clear Time (g_c), s	0.0	0.0	25.0	0.0	13.7	0.0	0.0	10.4
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.00	1.00	0.00	0.44	0.00	0.00	0.03
Lane Grp Cap (c), veh/h	0	0	408	0	283	0	0	531
V/C Ratio (X)	0.00	0.00	1.05	0.00	0.88	0.00	0.00	0.46
Avail Cap (c_a), veh/h	0	0	408	0	321	0	0	531
Upstream Filter (I)	0.00	0.00	0.42	0.00	1.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	32.5	0.0	36.1	0.0	0.0	25.1
Incr Delay (d2), s/veh	0.0	0.0	42.8	0.0	30.4	0.0	0.0	0.6
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	75.3	0.0	66.6	0.0	0.0	25.7
1st-Term Q (Q1), veh/ln	0.0	0.0	10.1	0.0	6.0	0.0	0.0	4.9
2nd-Term Q (Q2), veh/ln	0.0	0.0	4.9	0.0	2.4	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	14.9	0.0	8.4	0.0	0.0	5.0
%ile Storage Ratio (RQ%)	0.00	0.00	3.17	0.00	0.15	0.00	0.00	0.25
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	48.9
HCM 2010 LOS	D

Notes

User approved volume balancing among the lanes for turning movement.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	83	808	394	148	630	7	566	72	52	15	130	100
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	90	878	428	161	685	8	724	0	0	16	141	109
Adj No. of Lanes	1	2	1	1	3	0	2	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	113	912	408	165	1485	17	881	844	0	0	160	123
Arrive On Green	0.07	0.28	0.28	0.10	0.31	0.31	0.09	0.00	0.00	0.00	0.18	0.18
Sat Flow, veh/h	1645	3282	1468	1645	4805	56	3290	1727	0	0	905	699
Grp Volume(v), veh/h	90	878	428	161	448	245	724	0	0	0	0	250
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1572	1717	1645	1727	0	0	0	1604
Q Serve(g_s), s	4.9	23.7	25.0	8.8	10.3	10.4	19.5	0.0	0.0	0.0	0.0	13.7
Cycle Q Clear(g_c), s	4.9	23.7	25.0	8.8	10.3	10.4	19.5	0.0	0.0	0.0	0.0	13.7
Prop In Lane	1.00		1.00	1.00		0.03	1.00		0.00	0.00		0.44
Lane Grp Cap(c), veh/h	113	912	408	165	972	531	881	844	0	0	0	283
V/C Ratio(X)	0.80	0.96	1.05	0.98	0.46	0.46	0.82	0.00	0.00	0.00	0.00	0.88
Avail Cap(c_a), veh/h	183	912	408	165	972	531	881	844	0	0	0	321
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00
Upstream Filter(I)	0.42	0.42	0.42	1.00	1.00	1.00	0.72	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d), s/veh	41.3	32.0	32.5	40.4	25.0	25.1	38.9	0.0	0.0	0.0	0.0	36.1
Incr Delay (d2), s/veh	5.4	11.9	42.8	63.6	0.3	0.6	4.6	0.0	0.0	0.0	0.0	30.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.4	12.2	14.9	6.9	4.5	5.0	9.5	0.0	0.0	0.0	0.0	8.4
LnGrp Delay(d),s/veh	46.7	44.0	75.3	104.0	25.4	25.7	43.5	0.0	0.0	0.0	0.0	66.6
LnGrp LOS	D	D	F	F	C	C	D					E
Approach Vol, veh/h		1396			854			724			250	
Approach Delay, s/veh		53.8			40.3			43.5			66.6	
Approach LOS		D			D			D			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	0.0	48.0	13.0	29.0	28.1	19.9	10.2	31.8
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax),4s	0	36.0	9.0	25.0	22.0	18.0	10.0	24.0
Max Q Clear Time (g_c+I1),0s	0	0.0	10.8	27.0	21.5	15.7	6.9	12.4
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.2	0.2	0.1	2.7

Intersection Summary	
HCM 2010 Ctrl Delay	48.9
HCM 2010 LOS	D

Notes

User approved volume balancing among the lanes for turning movement.



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Volume (veh/h)	194	356	50	166	544	74
Number	3	18	2	12	1	6
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	211	387	54	180	591	80
Adj No. of Lanes	2	1	1	1	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Opposing Right Turn Influence	Yes				Yes	
Cap, veh/h	926	426	253	215	1373	1072
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.67	1.67
Prop Arrive On Green	0.29	0.29	0.15	0.15	0.72	1.00
Ln Grp Delay, s/veh	24.4	50.0	35.8	68.0	8.2	0.0
Ln Grp LOS	C	D	D	E	A	A
Approach Vol, veh/h	598		234			671
Approach Delay, s/veh	41.0		60.5			7.2
Approach LOS	D		E			A

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	8			6		
Case No	7.0	2.0	9.0			4.0		
Phs Duration (G+Y+Rc), s	17.2	42.7	30.1			59.9		
Change Period (Y+Rc), s	4.0	4.0	4.0			4.0		
Max Green (Gmax), s	19.0	29.0	30.0			52.0		
Max Allow Headway (MAH), s	4.3	4.1	4.3			4.1		
Max Q Clear (g_c+I1), s	12.7	8.8	24.9			2.0		
Green Ext Time (g_e), s	0.4	2.8	1.3			3.0		
Prob of Phs Call (p_c)	1.00	1.00	1.00			1.00		
Prob of Max Out (p_x)	0.29	0.01	0.76			0.00		

Left-Turn Movement Data								
Assigned Mvmt	5	1	3					
Mvmt Sat Flow, veh/h	0	3191	3191					

Through Movement Data								
Assigned Mvmt	2		8			6		
Mvmt Sat Flow, veh/h	1727		0			1727		

Right-Turn Movement Data								
Assigned Mvmt	12		18			16		
Mvmt Sat Flow, veh/h	1468		1468			0		

Left Lane Group Data								
Assigned Mvmt	5	1	3	0	0	0	0	0
Lane Assignment		(Prot)						
Lanes in Grp	0	2	2	0	0	0	0	0

Grp Vol (v), veh/h	0	591	211	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	1596	1596	0	0	0	0	0
Q Serve Time (g_s), s	0.0	6.8	4.5	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	6.8	4.5	0.0	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	1596	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	1373	926	0	0	0	0	0
V/C Ratio (X)	0.00	0.43	0.23	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	1373	1064	0	0	0	0	0
Upstream Filter (I)	0.00	0.09	1.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	8.2	24.3	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	8.2	24.4	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	2.9	2.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	2.9	2.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.24	0.26	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	8	0	0	6	0	0
Lane Assignment	T					T		
Lanes in Grp	1	0	0	0	0	1	0	0
Grp Vol (v), veh/h	54	0	0	0	0	80	0	0
Grp Sat Flow (s), veh/h/ln	1727	0	0	0	0	1727	0	0
Q Serve Time (g_s), s	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	253	0	0	0	0	1072	0	0
V/C Ratio (X)	0.21	0.00	0.00	0.00	0.00	0.07	0.00	0.00
Avail Cap (c_a), veh/h	365	0	0	0	0	1072	0	0
Upstream Filter (I)	1.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00
Uniform Delay (d1), s/veh	33.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	35.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
%ile Back of Q (50%), veh/ln	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	18	0	0	16	0	0
Lane Assignment	R		R					
Lanes in Grp	1	0	1	0	0	0	0	0
Grp Vol (v), veh/h	180	0	387	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	1468	0	1468	0	0	0	0	0
Q Serve Time (g_s), s	10.7	0.0	22.9	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	10.7	0.0	22.9	0.0	0.0	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	215	0	426	0	0	0	0	0
V/C Ratio (X)	0.84	0.00	0.91	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	310	0	489	0	0	0	0	0
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	37.4	0.0	30.8	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	30.6	0.0	19.2	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	68.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	4.4	0.0	9.2	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	1.8	0.0	2.3	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
%ile Back of Q (50%), veh/ln	6.2	0.0	11.5	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	2.08	0.00	0.01	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

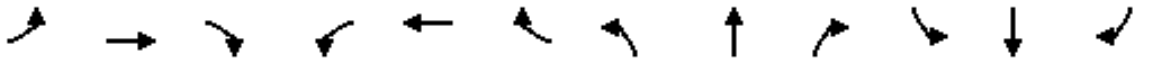
Intersection Summary	
HCM 2010 Ctrl Delay	28.9
HCM 2010 LOS	C



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Volume (veh/h)	194	356	50	166	544	74
Number	3	18	2	12	1	6
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	211	387	54	180	591	80
Adj No. of Lanes	2	1	1	1	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Cap, veh/h	926	426	253	215	1373	1072
Arrive On Green	0.29	0.29	0.15	0.15	0.72	1.00
Sat Flow, veh/h	3191	1468	1727	1468	3191	1727
Grp Volume(v), veh/h	211	387	54	180	591	80
Grp Sat Flow(s),veh/h/ln	1596	1468	1727	1468	1596	1727
Q Serve(g_s), s	4.5	22.9	2.5	10.7	6.8	0.0
Cycle Q Clear(g_c), s	4.5	22.9	2.5	10.7	6.8	0.0
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	926	426	253	215	1373	1072
V/C Ratio(X)	0.23	0.91	0.21	0.84	0.43	0.07
Avail Cap(c_a), veh/h	1064	489	365	310	1373	1072
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.67	1.67
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.09	0.09
Uniform Delay (d), s/veh	24.3	30.8	33.9	37.4	8.2	0.0
Incr Delay (d2), s/veh	0.1	19.2	1.9	30.6	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.0	11.5	1.3	6.2	2.9	0.0
LnGrp Delay(d),s/veh	24.4	50.0	35.8	68.0	8.2	0.0
LnGrp LOS	C	D	D	E	A	A
Approach Vol, veh/h	598		234			671
Approach Delay, s/veh	41.0		60.5			7.2
Approach LOS	D		E			A

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2				6		8
Phs Duration (G+Y+Rc), s	42.7	17.2				59.9		30.1
Change Period (Y+Rc), s	4.0	4.0				4.0		4.0
Max Green Setting (Gmax), s	29.0	19.0				52.0		30.0
Max Q Clear Time (g_c+I1), s	8.8	12.7				2.0		24.9
Green Ext Time (p_c), s	2.8	0.4				3.0		1.3

Intersection Summary	
HCM 2010 Ctrl Delay	28.9
HCM 2010 LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	70	262	110	231	331	58	34	261	92	49	472	14
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	76	285	120	251	360	63	37	284	100	53	513	15
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	253	305	128	274	396	69	44	430	151	65	609	18
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.15	0.26	0.26	0.17	0.28	0.28	0.03	0.35	0.35	0.04	0.36	0.36
Ln Grp Delay, s/veh	34.4	0.0	59.6	62.7	0.0	42.9	76.0	0.0	30.5	72.5	0.0	39.2
Ln Grp LOS	C		E	E		D	E		C	E		D
Approach Vol, veh/h		481			674			421			581	
Approach Delay, s/veh		55.6			50.3			34.5			42.2	
Approach LOS		E			D			C			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	8	7
Case No	2.0	4.0	2.0	4.0	2.0	4.0	4.0	2.0
Phs Duration (G+Y+Rc), s	7.6	35.7	19.0	27.8	6.4	36.8	28.9	17.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	5.0	30.0	15.0	24.0	4.0	31.0	32.0	7.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	4.9	19.7	15.5	23.7	4.0	27.4	23.9	5.7
Green Ext Time (g_e), s	0.0	2.7	0.0	0.1	0.0	1.4	1.0	0.3
Prob of Phs Call (p_c)	0.73	1.00	1.00	1.00	0.60	1.00	1.00	0.85
Prob of Max Out (p_x)	1.00	0.25	1.00	1.00	1.00	1.00	0.17	1.00

Left-Turn Movement Data								
Assigned Mvmt	1		3		5			7
Mvmt Sat Flow, veh/h	1645		1645		1645			1645

Through Movement Data								
Assigned Mvmt		2		4		6	8	
Mvmt Sat Flow, veh/h		1221		1155		1670	1432	

Right-Turn Movement Data								
Assigned Mvmt		12		14		16	18	
Mvmt Sat Flow, veh/h		430		486		49	251	

Left Lane Group Data								
Assigned Mvmt	1	0	3	0	5	0	0	7
Lane Assignment	(Prot)		(Prot)		(Prot)			(Prot)
Lanes in Grp	1	0	1	0	1	0	0	1

Grp Vol (v), veh/h	53	0	251	0	37	0	0	76
Grp Sat Flow (s), veh/h/ln	1645	0	1645	0	1645	0	0	1645
Q Serve Time (g_s), s	2.9	0.0	13.5	0.0	2.0	0.0	0.0	3.7
Cycle Q Clear Time (g_c), s	2.9	0.0	13.5	0.0	2.0	0.0	0.0	3.7
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	65	0	274	0	44	0	0	253
V/C Ratio (X)	0.81	0.00	0.92	0.00	0.84	0.00	0.00	0.30
Avail Cap (c_a), veh/h	91	0	274	0	73	0	0	253
Upstream Filter (I)	1.00	0.00	0.70	0.00	1.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	42.9	0.0	36.9	0.0	43.6	0.0	0.0	33.8
Incr Delay (d2), s/veh	29.7	0.0	25.8	0.0	32.4	0.0	0.0	0.7
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	72.5	0.0	62.7	0.0	76.0	0.0	0.0	34.4
1st-Term Q (Q1), veh/ln	1.3	0.0	6.1	0.0	0.9	0.0	0.0	1.7
2nd-Term Q (Q2), veh/ln	0.5	0.0	2.0	0.0	0.4	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	1.8	0.0	8.1	0.0	1.3	0.0	0.0	1.7
%ile Storage Ratio (RQ%)	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	8	0
Lane Assignment								
Lanes in Grp	0	0	0	0	0	0	0	0
Grp Vol (v), veh/h	0	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

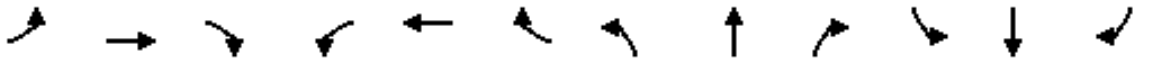
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data

Assigned Mvmt	0	12	0	14	0	16	18	0
Lane Assignment		T+R		T+R		T+R	T+R	
Lanes in Grp	0	1	0	1	0	1	1	0
Grp Vol (v), veh/h	0	384	0	405	0	528	423	0
Grp Sat Flow (s), veh/h/ln	0	1651	0	1641	0	1719	1683	0
Q Serve Time (g_s), s	0.0	17.7	0.0	21.7	0.0	25.4	21.9	0.0
Cycle Q Clear Time (g_c), s	0.0	17.7	0.0	21.7	0.0	25.4	21.9	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.26	0.00	0.30	0.00	0.03	0.15	0.00
Lane Grp Cap (c), veh/h	0	581	0	433	0	627	465	0
V/C Ratio (X)	0.00	0.66	0.00	0.93	0.00	0.84	0.91	0.00
Avail Cap (c_a), veh/h	0	581	0	438	0	627	598	0
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.70	0.00
Uniform Delay (d1), s/veh	0.0	24.6	0.0	32.4	0.0	26.2	31.5	0.0
Incr Delay (d2), s/veh	0.0	5.8	0.0	27.2	0.0	13.0	11.4	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	30.5	0.0	59.6	0.0	39.2	42.9	0.0
1st-Term Q (Q1), veh/ln	0.0	8.0	0.0	9.8	0.0	12.0	10.1	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.9	0.0	3.3	0.0	2.3	1.5	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	8.9	0.0	13.1	0.0	14.3	11.6	0.0
%ile Storage Ratio (RQ%)	0.00	0.02	0.00	0.13	0.00	0.04	0.06	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary

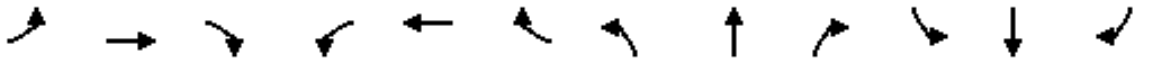
HCM 2010 Ctrl Delay	46.2
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	70	262	110	231	331	58	34	261	92	49	472	14
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	76	285	120	251	360	63	37	284	100	53	513	15
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	253	305	128	274	396	69	44	430	151	65	609	18
Arrive On Green	0.15	0.26	0.26	0.17	0.28	0.28	0.03	0.35	0.35	0.04	0.36	0.36
Sat Flow, veh/h	1645	1155	486	1645	1432	251	1645	1221	430	1645	1670	49
Grp Volume(v), veh/h	76	0	405	251	0	423	37	0	384	53	0	528
Grp Sat Flow(s),veh/h/ln	1645	0	1641	1645	0	1683	1645	0	1651	1645	0	1719
Q Serve(g_s), s	3.7	0.0	21.7	13.5	0.0	21.9	2.0	0.0	17.7	2.9	0.0	25.4
Cycle Q Clear(g_c), s	3.7	0.0	21.7	13.5	0.0	21.9	2.0	0.0	17.7	2.9	0.0	25.4
Prop In Lane	1.00		0.30	1.00		0.15	1.00		0.26	1.00		0.03
Lane Grp Cap(c), veh/h	253	0	433	274	0	465	44	0	581	65	0	627
V/C Ratio(X)	0.30	0.00	0.93	0.92	0.00	0.91	0.84	0.00	0.66	0.81	0.00	0.84
Avail Cap(c_a), veh/h	253	0	438	274	0	598	73	0	581	91	0	627
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	0.70	0.00	0.70	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	33.8	0.0	32.4	36.9	0.0	31.5	43.6	0.0	24.6	42.9	0.0	26.2
Incr Delay (d2), s/veh	0.7	0.0	27.2	25.8	0.0	11.4	32.4	0.0	5.8	29.7	0.0	13.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.7	0.0	13.1	8.1	0.0	11.6	1.3	0.0	8.9	1.8	0.0	14.3
LnGrp Delay(d),s/veh	34.4	0.0	59.6	62.7	0.0	42.9	76.0	0.0	30.5	72.5	0.0	39.2
LnGrp LOS	C		E	E		D	E		C	E		D
Approach Vol, veh/h		481			674			421			581	
Approach Delay, s/veh		55.6			50.3			34.5			42.2	
Approach LOS		E			D			C			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	7.6	35.7	19.0	27.8	6.4	36.8	17.9	28.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	5.0	30.0	15.0	24.0	4.0	31.0	7.0	32.0
Max Q Clear Time (g_c+I1), s	4.9	19.7	15.5	23.7	4.0	27.4	5.7	23.9
Green Ext Time (p_c), s	0.0	2.7	0.0	0.1	0.0	1.4	0.3	1.0

Intersection Summary	
HCM 2010 Ctrl Delay	46.2
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	47	361	21	14	323	331	9	131	18	228	105	48
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1900	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	51	392	23	15	351	360	10	142	20	248	114	52
Adj No. of Lanes	1	1	0	1	1	1	0	1	0	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	63	432	25	23	420	357	0	175	25	695	1011	859
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.04	0.27	0.27	0.01	0.24	0.24	0.00	0.12	0.12	0.42	0.59	0.59
Ln Grp Delay, s/veh	51.5	0.0	38.2	71.7	40.6	43.2	0.0	0.0	42.0	17.9	8.5	8.1
Ln Grp LOS	D		D	E	D	F			D	B	A	A
Approach Vol, veh/h		466			726			162			414	
Approach Delay, s/veh		39.7			42.5			42.0			14.1	
Approach LOS		D			D			D			B	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	5	6	7	8
Case No	4.0	2.0	4.0	2.0	0.0	3.0	2.0	3.0
Phs Duration (G+Y+Rc), s	14.7	42.0	28.1	5.3	0.0	56.7	7.4	25.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	17.0	22.0	31.0	4.0	4.0	35.0	6.0	29.0
Max Allow Headway (MAH), s	4.1	4.1	4.0	4.2	0.0	4.1	4.1	4.2
Max Q Clear (g_c+I1), s	10.4	11.2	23.1	2.8	0.0	4.6	4.8	19.4
Green Ext Time (g_e), s	0.2	1.1	1.0	0.4	0.0	1.5	0.0	2.1
Prob of Phs Call (p_c)	1.00	1.00	1.00	0.31	0.00	1.00	0.72	1.00
Prob of Max Out (p_x)	0.13	0.05	0.18	1.00	0.00	0.00	1.00	0.23

Left-Turn Movement Data								
Assigned Mvmt		1		3	5		7	
Mvmt Sat Flow, veh/h		1645		1645	0		1645	

Through Movement Data								
Assigned Mvmt	2		4			6		8
Mvmt Sat Flow, veh/h	1482		1616			1727		1727

Right-Turn Movement Data								
Assigned Mvmt	12		14			16		18
Mvmt Sat Flow, veh/h	209		95			1468		1468

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	5	0	7	0
Lane Assignment		(Prot)		(Prot)			(Prot)	
Lanes in Grp	0	1	0	1	0	0	1	0

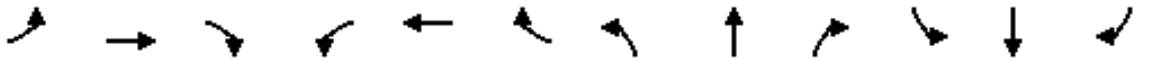
Grp Vol (v), veh/h	0	248	0	15	0	0	51	0
Grp Sat Flow (s), veh/h/ln	0	1645	0	1645	0	0	1645	0
Q Serve Time (g_s), s	0.0	9.2	0.0	0.8	0.0	0.0	2.8	0.0
Cycle Q Clear Time (g_c), s	0.0	9.2	0.0	0.8	0.0	0.0	2.8	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	695	0	23	0	0	63	0
V/C Ratio (X)	0.00	0.36	0.00	0.66	0.00	0.00	0.81	0.00
Avail Cap (c_a), veh/h	0	695	0	73	0	0	110	0
Upstream Filter (I)	0.00	0.86	0.00	1.00	0.00	0.00	0.36	0.00
Uniform Delay (d1), s/veh	0.0	17.7	0.0	44.2	0.0	0.0	43.0	0.0
Incr Delay (d2), s/veh	0.0	0.3	0.0	27.5	0.0	0.0	8.6	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	17.9	0.0	71.7	0.0	0.0	51.5	0.0
1st-Term Q (Q1), veh/ln	0.0	4.2	0.0	0.4	0.0	0.0	1.3	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.2	0.0	0.0	0.2	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	4.3	0.0	0.5	0.0	0.0	1.4	0.0
%ile Storage Ratio (RQ%)	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	0	6	0	8
Lane Assignment						T		T
Lanes in Grp	0	0	0	0	0	1	0	1
Grp Vol (v), veh/h	0	0	0	0	0	114	0	351
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	1727	0	1727
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	2.6	0.0	17.4
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	2.6	0.0	17.4
Lane Grp Cap (c), veh/h	0	0	0	0	0	1011	0	420
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.84
Avail Cap (c_a), veh/h	0	0	0	0	0	1011	0	557
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.86	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	8.3	0.0	32.3
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.2	0.0	8.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	8.5	0.0	40.6
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	1.2	0.0	8.3
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.1	0.0	1.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	1.3	0.0	9.2
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	0	16	0	18
Lane Assignment	T+R		T+R			R		R
Lanes in Grp	1	0	1	0	0	1	0	1
Grp Vol (v), veh/h	162	0	415	0	0	52	0	360
Grp Sat Flow (s), veh/h/ln	1690	0	1711	0	0	1468	0	1468
Q Serve Time (g_s), s	8.4	0.0	21.1	0.0	0.0	1.4	0.0	7.1
Cycle Q Clear Time (g_c), s	8.4	0.0	21.1	0.0	0.0	1.4	0.0	7.1
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.12	0.00	0.06	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	200	0	458	0	0	859	0	357
V/C Ratio (X)	0.81	0.00	0.91	0.00	0.00	0.06	0.00	1.01
Avail Cap (c_a), veh/h	319	0	589	0	0	859	0	473
Upstream Filter (I)	0.09	0.00	0.36	0.00	0.00	0.86	0.00	1.00
Uniform Delay (d1), s/veh	38.7	0.0	31.9	0.0	0.0	8.0	0.0	3.6
Incr Delay (d2), s/veh	3.3	0.0	6.4	0.0	0.0	0.1	0.0	39.6
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	42.0	0.0	38.2	0.0	0.0	8.1	0.0	43.2
1st-Term Q (Q1), veh/ln	3.9	0.0	9.9	0.0	0.0	0.6	0.0	2.8
2nd-Term Q (Q2), veh/ln	0.2	0.0	0.8	0.0	0.0	0.0	0.0	3.9
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	4.1	0.0	10.7	0.0	0.0	0.6	0.0	6.7
%ile Storage Ratio (RQ%)	0.01	0.00	0.06	0.00	0.00	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3

Intersection Summary	
HCM 2010 Ctrl Delay	35.1
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	47	361	21	14	323	331	9	131	18	228	105	48
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1900	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	51	392	23	15	351	360	10	142	20	248	114	52
Adj No. of Lanes	1	1	0	1	1	1	0	1	0	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	63	432	25	23	420	357	0	175	25	695	1011	859
Arrive On Green	0.04	0.27	0.27	0.01	0.24	0.24	0.00	0.12	0.12	0.42	0.59	0.59
Sat Flow, veh/h	1645	1616	95	1645	1727	1468	0	1482	209	1645	1727	1468
Grp Volume(v), veh/h	51	0	415	15	351	360	0	0	162	248	114	52
Grp Sat Flow(s),veh/h/ln	1645	0	1711	1645	1727	1468	0	0	1690	1645	1727	1468
Q Serve(g_s), s	2.8	0.0	21.1	0.8	17.4	7.1	0.0	0.0	8.4	9.2	2.6	1.4
Cycle Q Clear(g_c), s	2.8	0.0	21.1	0.8	17.4	7.1	0.0	0.0	8.4	9.2	2.6	1.4
Prop In Lane	1.00		0.06	1.00		1.00	0.00		0.12	1.00		1.00
Lane Grp Cap(c), veh/h	63	0	458	23	420	357	0	0	200	695	1011	859
V/C Ratio(X)	0.81	0.00	0.91	0.66	0.84	1.01	0.00	0.00	0.81	0.36	0.11	0.06
Avail Cap(c_a), veh/h	110	0	589	73	557	473	0	0	319	695	1011	859
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.36	0.00	0.36	1.00	1.00	1.00	0.00	0.00	0.09	0.86	0.86	0.86
Uniform Delay (d), s/veh	43.0	0.0	31.9	44.2	32.3	3.6	0.0	0.0	38.7	17.7	8.3	8.0
Incr Delay (d2), s/veh	8.6	0.0	6.4	27.5	8.2	39.6	0.0	0.0	3.3	0.3	0.2	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.4	0.0	10.7	0.5	9.2	6.7	0.0	0.0	4.1	4.3	1.3	0.6
LnGrp Delay(d),s/veh	51.5	0.0	38.2	71.7	40.6	43.2	0.0	0.0	42.0	17.9	8.5	8.1
LnGrp LOS	D		D	E	D	F			D	B	A	A
Approach Vol, veh/h		466			726			162			414	
Approach Delay, s/veh		39.7			42.5			42.0			14.1	
Approach LOS		D			D			D			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	42.0	14.7	5.3	28.1	0.0	56.7	7.4	25.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	22.0	17.0	4.0	31.0	4.0	35.0	6.0	29.0
Max Q Clear Time (g_c+I1), s	11.1	10.4	2.8	23.1	0.0	4.6	4.8	19.4
Green Ext Time (p_c), s	1.1	0.2	0.4	1.0	0.0	1.5	0.0	2.1

Intersection Summary	
HCM 2010 Ctrl Delay	35.1
HCM 2010 LOS	D

Intersection	
Int Delay, s/veh	3.1

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	9	310	448	113	106	16
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	10	337	487	123	115	17

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	610	0	-	0	905	548
Stage 1	-	-	-	-	548	-
Stage 2	-	-	-	-	357	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	931	-	-	-	297	521
Stage 1	-	-	-	-	563	-
Stage 2	-	-	-	-	691	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	931	-	-	-	294	521
Mov Cap-2 Maneuver	-	-	-	-	294	-
Stage 1	-	-	-	-	563	-
Stage 2	-	-	-	-	684	-

Approach	EB	WB	SB
HCM Control Delay, s	0.3	0	24.8
HCM LOS			C

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	931	-	-	-	312
HCM Lane V/C Ratio	0.011	-	-	-	0.425
HCM Control Delay (s)	8.9	-	-	-	24.8
HCM Lane LOS	A	-	-	-	C
HCM 95th %tile Q(veh)	0	-	-	-	2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	23	243	11	3	427	42	24	44	8	30	52	69
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1727	1900	1727	1727	1727	1900	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	25	264	12	3	464	46	26	48	9	33	57	75
Adj No. of Lanes	0	1	0	1	1	1	0	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	0	424	19	5	529	450	0	80	15	0	72	95
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.00	0.26	0.26	0.00	0.31	0.31	0.45	0.06	0.06	0.50	0.11	0.11
Ln Grp Delay, s/veh	0.0	0.0	30.9	114.8	37.5	0.6	0.0	0.0	66.7	0.0	0.0	69.3
Ln Grp LOS			C	F	D	A			E			E
Approach Vol, veh/h		276			513			57			132	
Approach Delay, s/veh		30.9			34.7			66.7			69.3	
Approach LOS		C			C			E			E	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	6	5	7	8
Case No	4.0	0.0	2.0	4.0	4.0	0.0	0.0	3.0
Phs Duration (G+Y+Rc), s	9.1	49.4	4.3	27.3	13.6	44.8	0.0	31.6
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	18.0	8.0	8.0	40.0	18.0	8.0	8.0	40.0
Max Allow Headway (MAH), s	4.1	0.0	4.1	4.0	4.2	0.0	0.0	4.0
Max Q Clear (g_c+I1), s	5.0	0.0	2.2	14.8	9.4	0.0	0.0	24.9
Green Ext Time (g_e), s	0.1	0.0	0.0	2.9	0.2	0.0	0.0	2.6
Prob of Phs Call (p_c)	1.00	0.00	0.07	1.00	1.00	0.00	0.00	1.00
Prob of Max Out (p_x)	0.00	0.00	0.02	0.00	0.03	0.00	0.00	0.05

Left-Turn Movement Data								
Assigned Mvmt		1	3			5	7	
Mvmt Sat Flow, veh/h		0	1645			0	0	

Through Movement Data								
Assigned Mvmt	2			4	6			8
Mvmt Sat Flow, veh/h	1415			1640	678			1727

Right-Turn Movement Data								
Assigned Mvmt	12			14	16			18
Mvmt Sat Flow, veh/h	265			75	892			1468

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	0	5	7	0
Lane Assignment			(Prot)					
Lanes in Grp	0	0	1	0	0	0	0	0

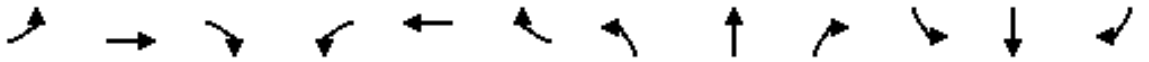
Grp Vol (v), veh/h	0	0	3	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	1645	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	0	5	0	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	146	0	0	0	0	0
Upstream Filter (I)	0.00	0.00	0.98	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	44.8	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	70.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	114.8	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	6	0	0	8
Lane Assignment								T
Lanes in Grp	0	0	0	0	0	0	0	1
Grp Vol (v), veh/h	0	0	0	0	0	0	0	464
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	1727
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.9
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.9
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	529
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.88
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	768
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.6
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.1
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	0	14	16	0	0	18
Lane Assignment	T+R			T+R	T+R			R
Lanes in Grp	1	0	0	1	1	0	0	1
Grp Vol (v), veh/h	57	0	0	276	132	0	0	46
Grp Sat Flow (s), veh/h/ln	1680	0	0	1714	1570	0	0	1468
Q Serve Time (g_s), s	3.0	0.0	0.0	12.8	7.4	0.0	0.0	0.3
Cycle Q Clear Time (g_c), s	3.0	0.0	0.0	12.8	7.4	0.0	0.0	0.3
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.16	0.00	0.00	0.04	0.57	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	95	0	0	443	168	0	0	450
V/C Ratio (X)	0.60	0.00	0.00	0.62	0.79	0.00	0.00	0.10
Avail Cap (c_a), veh/h	336	0	0	762	314	0	0	653
Upstream Filter (I)	1.00	0.00	0.00	1.00	1.00	0.00	0.00	0.98
Uniform Delay (d1), s/veh	41.5	0.0	0.0	29.5	39.2	0.0	0.0	0.5
Incr Delay (d2), s/veh	25.2	0.0	0.0	1.4	30.1	0.0	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	66.7	0.0	0.0	30.9	69.3	0.0	0.0	0.6
1st-Term Q (Q1), veh/ln	1.4	0.0	0.0	6.1	3.2	0.0	0.0	0.1
2nd-Term Q (Q2), veh/ln	0.7	0.0	0.0	0.2	1.4	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	2.0	0.0	0.0	6.2	4.6	0.0	0.0	0.1
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.03	0.01	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	40.2
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	23	243	11	3	427	42	24	44	8	30	52	69
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1727	1900	1727	1727	1727	1900	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	25	264	12	3	464	46	26	48	9	33	57	75
Adj No. of Lanes	0	1	0	1	1	1	0	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	0	424	19	5	529	450	0	80	15	0	72	95
Arrive On Green	0.00	0.26	0.26	0.00	0.31	0.31	0.45	0.06	0.06	0.50	0.11	0.11
Sat Flow, veh/h	0	1640	75	1645	1727	1468	0	1415	265	0	678	892
Grp Volume(v), veh/h	0	0	276	3	464	46	0	0	57	0	0	132
Grp Sat Flow(s),veh/h/ln	0	0	1714	1645	1727	1468	0	0	1680	0	0	1570
Q Serve(g_s), s	0.0	0.0	12.8	0.2	22.9	0.3	0.0	0.0	3.0	0.0	0.0	7.4
Cycle Q Clear(g_c), s	0.0	0.0	12.8	0.2	22.9	0.3	0.0	0.0	3.0	0.0	0.0	7.4
Prop In Lane	0.00		0.04	1.00		1.00	0.00		0.16	0.00		0.57
Lane Grp Cap(c), veh/h	0	0	443	5	529	450	0	0	95	0	0	168
V/C Ratio(X)	0.00	0.00	0.62	0.57	0.88	0.10	0.00	0.00	0.60	0.00	0.00	0.79
Avail Cap(c_a), veh/h	0	0	762	146	768	653	0	0	336	0	0	314
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.00	1.00	0.98	0.98	0.98	0.00	0.00	1.00	0.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	0.0	29.5	44.8	29.6	0.5	0.0	0.0	41.5	0.0	0.0	39.2
Incr Delay (d2), s/veh	0.0	0.0	1.4	70.0	7.9	0.1	0.0	0.0	25.2	0.0	0.0	30.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.0	6.2	0.2	12.1	0.1	0.0	0.0	2.0	0.0	0.0	4.6
LnGrp Delay(d),s/veh	0.0	0.0	30.9	114.8	37.5	0.6	0.0	0.0	66.7	0.0	0.0	69.3
LnGrp LOS			C	F	D	A			E			E
Approach Vol, veh/h		276			513			57			132	
Approach Delay, s/veh		30.9			34.7			66.7			69.3	
Approach LOS		C			C			E			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	49.4	9.1	4.3	27.3	44.8	13.6	0.0	31.6
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	8.0	18.0	8.0	40.0	8.0	18.0	8.0	40.0
Max Q Clear Time (g_c+I1), s	0.0	5.0	2.2	14.8	0.0	9.4	0.0	24.9
Green Ext Time (p_c), s	0.0	0.1	0.0	2.9	0.0	0.2	0.0	2.6

Intersection Summary	
HCM 2010 Ctrl Delay	40.2
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NWL	NWR	NWR2	SWL2	SWL	SWR
Lane Configurations												
Volume (veh/h)	0	463	14	48	169	29	0	0	0	0	0	0
Number	7	4	14	3	8	18	5	12	12	1	1	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	503	15	52	184	32	0	0	0	0	0	0
Adj No. of Lanes	1	1	0	1	1	0	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes	Yes	
Cap, veh/h	9	814	24	84	1103	192	9	0	0	9	9	8
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.00	0.49	0.49	0.05	0.77	0.77	0.00	0.00	0.00	0.00	0.00	0.00
Ln Grp Delay, s/veh	0.0	0.0	4.0	15.3	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
Ln Grp LOS			A	B		A						
Approach Vol, veh/h		518			268		0			0	0	
Approach Delay, s/veh		4.0			3.4		0.0			0.0	0.0	
Approach LOS		A			A							

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1		3	4	5	6	7	8
Case No	2.0		2.0	4.0	2.0	3.0	2.0	4.0
Phs Duration (G+Y+Rc), s	0.0		4.9	12.5	0.0	0.0	0.0	17.4
Change Period (Y+Rc), s	4.0		4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	4.0		14.0	49.0	4.0	21.0	11.0	52.0
Max Allow Headway (MAH), s	0.0		4.1	4.0	0.0	0.0	0.0	4.0
Max Q Clear (g_c+I1), s	0.0		2.5	5.8	0.0	0.0	0.0	2.6
Green Ext Time (g_e), s	0.0		0.1	2.9	0.0	0.0	0.0	2.9
Prob of Phs Call (p_c)	0.00		0.22	0.97	0.00	0.00	0.00	0.98
Prob of Max Out (p_x)	0.00		0.00	0.00	0.00	0.00	0.00	0.00

Left-Turn Movement Data								
Assigned Mvmt	1		3		5		7	
Mvmt Sat Flow, veh/h	1645		1645		1645		1645	

Through Movement Data								
Assigned Mvmt				4		6		8
Mvmt Sat Flow, veh/h				1669		1727		1434

Right-Turn Movement Data								
Assigned Mvmt				14		16		18
Mvmt Sat Flow, veh/h				50		1468		249

Left Lane Group Data								
Assigned Mvmt	1	0	3	0	5	0	7	0
Lane Assignment	(Prot)		(Prot)		(Prot)		(Prot)	
Lanes in Grp	1	0	1	0	1	0	1	0

Grp Vol (v), veh/h	0	0	52	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	1645	0	1645	0	1645	0	1645	0
Q Serve Time (g_s), s	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	9	0	84	0	9	0	9	0
V/C Ratio (X)	0.00	0.00	0.62	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	379	0	1327	0	379	0	1043	0
Upstream Filter (I)	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	8.1	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	7.2	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	15.3	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	0	0	4	0	6	0	8
Lane Assignment						T		
Lanes in Grp	0	0	0	0	0	1	0	0
Grp Vol (v), veh/h	0	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	1727	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	10	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	2090	0	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	0	0	14	0	16	0	18
Lane Assignment				T+R		R		T+R
Lanes in Grp	0	0	0	1	0	1	0	1
Grp Vol (v), veh/h	0	0	0	518	0	0	0	216
Grp Sat Flow (s), veh/h/ln	0	0	0	1718	0	1468	0	1683
Q Serve Time (g_s), s	0.0	0.0	0.0	3.8	0.0	0.0	0.0	0.6
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	3.8	0.0	0.0	0.0	0.6
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.00	0.00	0.03	0.00	1.00	0.00	0.15
Lane Grp Cap (c), veh/h	0	0	0	839	0	8	0	1295
V/C Ratio (X)	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.17
Avail Cap (c_a), veh/h	0	0	0	4852	0	1776	0	5043
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.5
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.6
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.2
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.3
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	3.8
HCM 2010 LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NWL	NWR	NWR2	SWL2	SWL	SWR
Lane Configurations												
Volume (veh/h)	0	463	14	48	169	29	0	0	0	0	0	0
Number	7	4	14	3	8	18	5	12	12	1	1	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	503	15	52	184	32	0	0	0	0	0	0
Adj No. of Lanes	1	1	0	1	1	0	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	9	814	24	84	1103	192	9	0	0	9	9	8
Arrive On Green	0.00	0.49	0.49	0.05	0.77	0.77	0.00	0.00	0.00	0.00	0.00	0.00
Sat Flow, veh/h	1645	1669	50	1645	1434	249	1645			1645	1645	1468
Grp Volume(v), veh/h	0	0	518	52	0	216	0			0	0	0
Grp Sat Flow(s),veh/h/ln	1645	0	1718	1645	0	1683	1645			1645	1645	1468
Q Serve(g_s), s	0.0	0.0	3.8	0.5	0.0	0.6	0.0			0.0	0.0	0.0
Cycle Q Clear(g_c), s	0.0	0.0	3.8	0.5	0.0	0.6	0.0			0.0	0.0	0.0
Prop In Lane	1.00		0.03	1.00		0.15	1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	9	0	839	84	0	1295	9			9	9	8
V/C Ratio(X)	0.00	0.00	0.62	0.62	0.00	0.17	0.00			0.00	0.00	0.00
Avail Cap(c_a), veh/h	1043	0	4852	1327	0	5043	379			379	379	1776
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00			1.00	1.00	1.00
Upstream Filter(I)	0.00	0.00	1.00	1.00	0.00	1.00	0.00			0.00	0.00	0.00
Uniform Delay (d), s/veh	0.0	0.0	3.3	8.1	0.0	0.5	0.0			0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.7	7.2	0.0	0.1	0.0			0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.0	1.9	0.4	0.0	0.3	0.0			0.0	0.0	0.0
LnGrp Delay(d),s/veh	0.0	0.0	4.0	15.3	0.0	0.6	0.0			0.0	0.0	0.0
LnGrp LOS			A	B		A						
Approach Vol, veh/h		518			268		0			0	0	
Approach Delay, s/veh		4.0			3.4		0.0			0.0	0.0	
Approach LOS		A			A							

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1		3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	0.0		4.9	12.5	0.0	0.0	0.0	17.4
Change Period (Y+Rc), s	4.0		4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax),4s	0		14.0	49.0	4.0	21.0	11.0	52.0
Max Q Clear Time (g_c+I1),0s	0		2.5	5.8	0.0	0.0	0.0	2.6
Green Ext Time (p_c), s	0.0		0.1	2.9	0.0	0.0	0.0	2.9

Intersection Summary	
HCM 2010 Ctrl Delay	3.8
HCM 2010 LOS	A

Intersection	
Intersection Delay, s/veh	15.5
Intersection LOS	C

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Vol, veh/h	0	10	24	2	0	331	94	13	0	3	40	21	0	13	214	12
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	11	26	2	0	360	102	14	0	3	43	23	0	14	233	13
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	9.2	18.6	9.5	12.4
HCM LOS	A	C	A	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	5%	28%	76%	5%
Vol Thru, %	62%	67%	21%	90%
Vol Right, %	33%	6%	3%	5%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	64	36	438	239
LT Vol	3	10	331	13
Through Vol	40	24	94	214
RT Vol	21	2	13	12
Lane Flow Rate	70	39	476	260
Geometry Grp	1	1	1	1
Degree of Util (X)	0.112	0.063	0.679	0.404
Departure Headway (Hd)	5.777	5.799	5.256	5.605
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	623	619	690	644
Service Time	3.791	3.823	3.256	3.612
HCM Lane V/C Ratio	0.112	0.063	0.69	0.404
HCM Control Delay	9.5	9.2	18.6	12.4
HCM Lane LOS	A	A	C	B
HCM 95th-tile Q	0.4	0.2	5.3	2

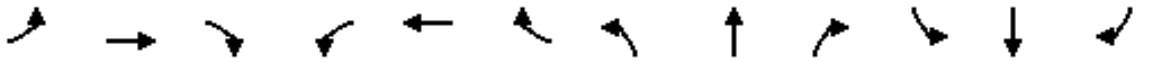
Intersection	
Int Delay, s/veh	1.7

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	9	56	190	23	23	23
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	10	61	207	25	25	25

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	232	0	-	0	299	219
Stage 1	-	-	-	-	219	-
Stage 2	-	-	-	-	80	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1290	-	-	-	676	801
Stage 1	-	-	-	-	799	-
Stage 2	-	-	-	-	923	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1290	-	-	-	671	801
Mov Cap-2 Maneuver	-	-	-	-	671	-
Stage 1	-	-	-	-	799	-
Stage 2	-	-	-	-	916	-

Approach	EB	WB	SB
HCM Control Delay, s	1.1	0	10.3
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1290	-	-	-	730
HCM Lane V/C Ratio	0.008	-	-	-	0.068
HCM Control Delay (s)	7.8	0	-	-	10.3
HCM Lane LOS	A	A	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0.2



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	12	214	59	45	194	24	10	38	14	15	124	19
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1727	1900	1900	1727	1900	1900	1727	1727	1900	1727	1900
Adj Flow Rate, veh/h	13	233	64	49	211	26	11	41	15	16	135	21
Adj No. of Lanes	0	1	0	0	1	0	0	1	1	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	204	454	121	273	459	51	267	336	340	224	315	47
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.36	0.36	0.36	0.36	0.36	0.36	0.23	0.23	0.23	0.23	0.23	0.23
Ln Grp Delay, s/veh	5.3	0.0	0.0	5.1	0.0	0.0	6.0	0.0	5.8	6.6	0.0	0.0
Ln Grp LOS	A			A			A		A	A		
Approach Vol, veh/h		310			286			67			172	
Approach Delay, s/veh		5.3			5.1			5.9			6.6	
Approach LOS		A			A			A			A	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Case No		7.0		8.0		8.0		8.0
Phs Duration (G+Y+Rc), s		8.5		10.9		8.5		10.9
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green (Gmax), s		35.0		47.0		35.0		47.0
Max Allow Headway (MAH), s		4.1		4.1		4.1		4.1
Max Q Clear (g_c+I1), s		2.5		4.9		3.7		4.5
Green Ext Time (g_e), s		0.8		2.3		0.8		2.3
Prob of Phs Call (p_c)		1.00		0.96		1.00		0.96
Prob of Max Out (p_x)		0.00		0.00		0.00		0.00

Left-Turn Movement Data								
Assigned Mvmt		5		7		1		3
Mvmt Sat Flow, veh/h		183		30		93		156

Through Movement Data								
Assigned Mvmt		2		4		6		8
Mvmt Sat Flow, veh/h		1450		1278		1360		1290

Right-Turn Movement Data								
Assigned Mvmt		12		14		16		18
Mvmt Sat Flow, veh/h		1468		340		202		145

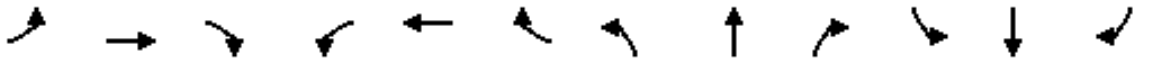
Left Lane Group Data								
Assigned Mvmt	0	5	0	7	0	1	0	3
Lane Assignment		L+T		L+T+R		L+T+R		L+T+R
Lanes in Grp	0	1	0	1	0	1	0	1

Grp Vol (v), veh/h	0	52	0	310	0	172	0	286
Grp Sat Flow (s), veh/h/ln	0	1632	0	1648	0	1655	0	1591
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.5	0.0	2.9	0.0	1.7	0.0	2.5
Perm LT Sat Flow (s_l), veh/h/ln	0	1250	0	1161	0	1369	0	1099
Shared LT Sat Flow (s_sh), veh/h/ln	0	1709	0	1724	0	0	0	1713
Perm LT Eff Green (g_p), s	0.0	4.5	0.0	6.9	0.0	4.5	0.0	6.9
Perm LT Serve Time (g_u), s	0.0	2.8	0.0	4.4	0.0	4.0	0.0	4.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	2.0	0.0	3.9	0.0	1.7	0.0	2.8
Serve Time pre Blk (g_fs), s	0.0	0.5	0.0	2.9	0.0	1.7	0.0	2.5
Prop LT Inside Lane (P_L)	0.00	0.21	0.00	0.04	0.00	0.09	0.00	0.17
Lane Grp Cap (c), veh/h	0	603	0	779	0	587	0	783
V/C Ratio (X)	0.00	0.09	0.00	0.40	0.00	0.29	0.00	0.37
Avail Cap (c_a), veh/h	0	3051	0	4139	0	3155	0	3914
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	5.9	0.0	4.9	0.0	6.4	0.0	4.8
Incr Delay (d2), s/veh	0.0	0.1	0.0	0.3	0.0	0.3	0.0	0.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	6.0	0.0	5.3	0.0	6.6	0.0	5.1
1st-Term Q (Q1), veh/ln	0.0	0.2	0.0	1.3	0.0	0.8	0.0	1.1
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.2	0.0	1.4	0.0	0.8	0.0	1.2
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	0	8
Lane Assignment								
Lanes in Grp	0	0	0	0	0	0	0	0
Grp Vol (v), veh/h	0	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	0	18
Lane Assignment		R						
Lanes in Grp	0	1	0	0	0	0	0	0
Grp Vol (v), veh/h	0	15	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	1468	0	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	0.21	0.00	0.12	0.00	0.09
Lane Grp Cap (c), veh/h	0	340	0	0	0	0	0	0
V/C Ratio (X)	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	2650	0	0	0	0	0	0
Upstream Filter (I)	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	5.8	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	5.8	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	5.6
HCM 2010 LOS	A



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	12	214	59	45	194	24	10	38	14	15	124	19
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1727	1900	1900	1727	1900	1900	1727	1727	1900	1727	1900
Adj Flow Rate, veh/h	13	233	64	49	211	26	11	41	15	16	135	21
Adj No. of Lanes	0	1	0	0	1	0	0	1	1	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	204	454	121	273	459	51	267	336	340	224	315	47
Arrive On Green	0.36	0.36	0.36	0.36	0.36	0.36	0.23	0.23	0.23	0.23	0.23	0.23
Sat Flow, veh/h	30	1278	340	156	1290	145	183	1450	1468	93	1360	202
Grp Volume(v), veh/h	310	0	0	286	0	0	52	0	15	172	0	0
Grp Sat Flow(s),veh/h/ln	1648	0	0	1591	0	0	1632	0	1468	1655	0	0
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Cycle Q Clear(g_c), s	2.9	0.0	0.0	2.5	0.0	0.0	0.5	0.0	0.2	1.7	0.0	0.0
Prop In Lane	0.04		0.21	0.17		0.09	0.21		1.00	0.09		0.12
Lane Grp Cap(c), veh/h	779	0	0	783	0	0	603	0	340	587	0	0
V/C Ratio(X)	0.40	0.00	0.00	0.37	0.00	0.00	0.09	0.00	0.04	0.29	0.00	0.00
Avail Cap(c_a), veh/h	4139	0	0	3914	0	0	3051	0	2650	3155	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	4.9	0.0	0.0	4.8	0.0	0.0	5.9	0.0	5.8	6.4	0.0	0.0
Incr Delay (d2), s/veh	0.3	0.0	0.0	0.3	0.0	0.0	0.1	0.0	0.1	0.3	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.4	0.0	0.0	1.2	0.0	0.0	0.2	0.0	0.1	0.8	0.0	0.0
LnGrp Delay(d),s/veh	5.3	0.0	0.0	5.1	0.0	0.0	6.0	0.0	5.8	6.6	0.0	0.0
LnGrp LOS	A			A			A		A	A		
Approach Vol, veh/h		310			286			67			172	
Approach Delay, s/veh		5.3			5.1			5.9			6.6	
Approach LOS		A			A			A			A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Phs Duration (G+Y+Rc), s		8.5		10.9		8.5		10.9
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green Setting (Gmax), s		35.0		47.0		35.0		47.0
Max Q Clear Time (g_c+I1), s		2.5		4.9		3.7		4.5
Green Ext Time (p_c), s		0.8		2.3		0.8		2.3

Intersection Summary	
HCM 2010 Ctrl Delay	5.6
HCM 2010 LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	158	700	6	223	800	203	237	1374	226	296	766	171
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	172	761	7	242	870	221	258	1493	246	322	833	186
Adj No. of Lanes	2	3	1	2	3	0	2	3	0	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	177	881	274	361	918	232	332	1627	268	394	1972	614
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.06	0.19	0.19	0.11	0.24	0.24	0.10	0.40	0.40	0.12	0.42	0.42
Ln Grp Delay, s/veh	101.0	43.4	17.4	41.6	49.4	60.6	40.0	27.0	28.4	50.1	19.1	11.0
Ln Grp LOS	F	D	B	D	D	E	D	C	C	D	B	B
Approach Vol, veh/h		940			1333			1997			1341	
Approach Delay, s/veh		53.8			51.1			29.1			25.4	
Approach LOS		D			D			C			C	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	5	6	8	7
Case No	4.0	2.0	3.0	2.0	2.0	3.0	4.0	2.0
Phs Duration (G+Y+Rc), s	39.9	15.1	20.8	14.2	13.4	41.6	26.0	9.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	37.0	10.0	18.0	9.0	12.0	35.0	22.0	5.0
Max Allow Headway (MAH), s	4.1	4.1	4.0	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	33.3	10.9	16.1	8.5	9.1	13.2	22.6	6.8
Green Ext Time (g_e), s	2.6	0.0	0.7	0.1	0.3	6.2	0.0	0.0
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.99
Prob of Max Out (p_x)	1.00	1.00	1.00	1.00	1.00	0.07	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt		1		3	5			7
Mvmt Sat Flow, veh/h		3191		3191	3191			3191

Through Movement Data								
Assigned Mvmt	2		4			6	8	
Mvmt Sat Flow, veh/h	4081		4715			4715	3755	

Right-Turn Movement Data								
Assigned Mvmt	12		14			16	18	
Mvmt Sat Flow, veh/h	671		1468			1468	949	

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	5	0	0	7
Lane Assignment		(Prot)		(Prot)	(Prot)			(Prot)
Lanes in Grp	0	2	0	2	2	0	0	2

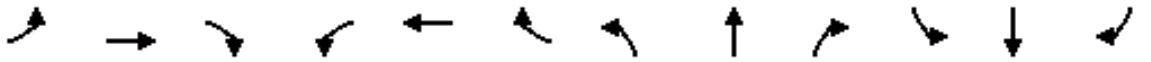
Grp Vol (v), veh/h	0	322	0	242	258	0	0	172
Grp Sat Flow (s), veh/h/ln	0	1596	0	1596	1596	0	0	1596
Q Serve Time (g_s), s	0.0	8.9	0.0	6.5	7.1	0.0	0.0	4.8
Cycle Q Clear Time (g_c), s	0.0	8.9	0.0	6.5	7.1	0.0	0.0	4.8
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	394	0	361	332	0	0	177
V/C Ratio (X)	0.00	0.82	0.00	0.67	0.78	0.00	0.00	0.97
Avail Cap (c_a), veh/h	0	394	0	361	426	0	0	177
Upstream Filter (I)	0.00	0.92	0.00	0.70	0.09	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	38.4	0.0	38.3	39.3	0.0	0.0	42.4
Incr Delay (d2), s/veh	0.0	11.7	0.0	3.3	0.6	0.0	0.0	58.6
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	50.1	0.0	41.6	40.0	0.0	0.0	101.0
1st-Term Q (Q1), veh/ln	0.0	3.9	0.0	2.9	3.1	0.0	0.0	2.1
2nd-Term Q (Q2), veh/ln	0.0	0.6	0.0	0.2	0.0	0.0	0.0	1.4
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	4.5	0.0	3.1	3.1	0.0	0.0	3.6
%ile Storage Ratio (RQ%)	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	0	6	8	0
Lane Assignment	T		T			T	T	
Lanes in Grp	2	0	3	0	0	3	2	0
Grp Vol (v), veh/h	1149	0	761	0	0	833	728	0
Grp Sat Flow (s), veh/h/ln	1572	0	1572	0	0	1572	1572	0
Q Serve Time (g_s), s	31.2	0.0	14.1	0.0	0.0	11.2	20.5	0.0
Cycle Q Clear Time (g_c), s	31.2	0.0	14.1	0.0	0.0	11.2	20.5	0.0
Lane Grp Cap (c), veh/h	1253	0	881	0	0	1972	768	0
V/C Ratio (X)	0.92	0.00	0.86	0.00	0.00	0.42	0.95	0.00
Avail Cap (c_a), veh/h	1292	0	943	0	0	1972	768	0
Upstream Filter (I)	0.09	0.00	1.00	0.00	0.00	0.92	0.70	0.00
Uniform Delay (d1), s/veh	25.6	0.0	35.5	0.0	0.0	18.5	33.4	0.0
Incr Delay (d2), s/veh	1.4	0.0	8.0	0.0	0.0	0.6	16.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	27.0	0.0	43.4	0.0	0.0	19.1	49.4	0.0
1st-Term Q (Q1), veh/ln	13.4	0.0	6.1	0.0	0.0	4.9	8.9	0.0
2nd-Term Q (Q2), veh/ln	0.2	0.0	0.7	0.0	0.0	0.1	1.7	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	13.6	0.0	6.8	0.0	0.0	5.0	10.6	0.0
%ile Storage Ratio (RQ%)	0.02	0.00	0.04	0.00	0.00	0.01	0.02	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	0	16	18	0
Lane Assignment	T+R		R			R	T+R	
Lanes in Grp	1	0	1	0	0	1	1	0
Grp Vol (v), veh/h	590	0	7	0	0	186	363	0
Grp Sat Flow (s), veh/h/ln	1609	0	1468	0	0	1468	1560	0
Q Serve Time (g_s), s	31.3	0.0	0.3	0.0	0.0	5.7	20.6	0.0
Cycle Q Clear Time (g_c), s	31.3	0.0	0.3	0.0	0.0	5.7	20.6	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.42	0.00	1.00	0.00	0.00	1.00	0.61	0.00
Lane Grp Cap (c), veh/h	641	0	274	0	0	614	381	0
V/C Ratio (X)	0.92	0.00	0.03	0.00	0.00	0.30	0.95	0.00
Avail Cap (c_a), veh/h	661	0	294	0	0	614	381	0
Upstream Filter (I)	0.09	0.00	1.00	0.00	0.00	0.92	0.70	0.00
Uniform Delay (d1), s/veh	25.7	0.0	17.4	0.0	0.0	9.9	33.5	0.0
Incr Delay (d2), s/veh	2.7	0.0	0.0	0.0	0.0	1.2	27.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	28.4	0.0	17.4	0.0	0.0	11.0	60.6	0.0
1st-Term Q (Q1), veh/ln	13.8	0.0	0.1	0.0	0.0	2.3	8.9	0.0
2nd-Term Q (Q2), veh/ln	0.5	0.0	0.0	0.0	0.0	0.2	2.9	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	14.2	0.0	0.1	0.0	0.0	2.5	11.7	0.0
%ile Storage Ratio (RQ%)	0.02	0.00	0.00	0.00	0.00	0.01	0.02	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

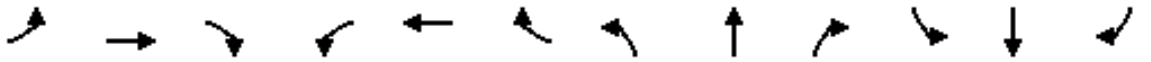
Intersection Summary	
HCM 2010 Ctrl Delay	37.6
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	158	700	6	223	800	203	237	1374	226	296	766	171
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	172	761	7	242	870	221	258	1493	246	322	833	186
Adj No. of Lanes	2	3	1	2	3	0	2	3	0	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	177	881	274	361	918	232	332	1627	268	394	1972	614
Arrive On Green	0.06	0.19	0.19	0.11	0.24	0.24	0.10	0.40	0.40	0.12	0.42	0.42
Sat Flow, veh/h	3191	4715	1468	3191	3755	949	3191	4081	671	3191	4715	1468
Grp Volume(v), veh/h	172	761	7	242	728	363	258	1149	590	322	833	186
Grp Sat Flow(s),veh/h/ln	1596	1572	1468	1596	1572	1560	1596	1572	1609	1596	1572	1468
Q Serve(g_s), s	4.8	14.1	0.3	6.5	20.5	20.6	7.1	31.2	31.3	8.9	11.2	5.7
Cycle Q Clear(g_c), s	4.8	14.1	0.3	6.5	20.5	20.6	7.1	31.2	31.3	8.9	11.2	5.7
Prop In Lane	1.00		1.00	1.00		0.61	1.00		0.42	1.00		1.00
Lane Grp Cap(c), veh/h	177	881	274	361	768	381	332	1253	641	394	1972	614
V/C Ratio(X)	0.97	0.86	0.03	0.67	0.95	0.95	0.78	0.92	0.92	0.82	0.42	0.30
Avail Cap(c_a), veh/h	177	943	294	361	768	381	426	1292	661	394	1972	614
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.70	0.70	0.70	0.09	0.09	0.09	0.92	0.92	0.92
Uniform Delay (d), s/veh	42.4	35.5	17.4	38.3	33.4	33.5	39.3	25.6	25.7	38.4	18.5	9.9
Incr Delay (d2), s/veh	58.6	8.0	0.0	3.3	16.0	27.1	0.6	1.4	2.7	11.7	0.6	1.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.6	6.8	0.1	3.1	10.6	11.7	3.1	13.6	14.2	4.5	5.0	2.5
LnGrp Delay(d),s/veh	101.0	43.4	17.4	41.6	49.4	60.6	40.0	27.0	28.4	50.1	19.1	11.0
LnGrp LOS	F	D	B	D	D	E	D	C	C	D	B	B
Approach Vol, veh/h		940			1333			1997			1341	
Approach Delay, s/veh		53.8			51.1			29.1			25.4	
Approach LOS		D			D			C			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	15.1	39.9	14.2	20.8	13.4	41.6	9.0	26.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	11.0	37.0	9.0	18.0	12.0	35.0	5.0	22.0
Max Q Clear Time (g_c+I1), s	10.9	33.3	8.5	16.1	9.1	13.2	6.8	22.6
Green Ext Time (p_c), s	0.0	2.6	0.1	0.7	0.3	6.2	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	37.6
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	3	950	329	308	946	7	290	3	560	0	1	1
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	3	1033	358	335	1028	8	315	3	609	0	1	1
Adj No. of Lanes	1	2	1	2	2	1	2	2	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	5	1110	496	390	1500	671	380	1021	457	162	1145	356
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.00	0.34	0.34	0.12	0.46	0.46	0.12	0.31	0.31	0.00	0.24	0.24
Ln Grp Delay, s/veh	96.8	38.6	15.6	55.9	20.6	7.4	52.3	21.4	195.4	0.0	25.8	25.8
Ln Grp LOS	F	D	B	E	C	A	D	C	F		C	C
Approach Vol, veh/h		1394			1371			927			2	
Approach Delay, s/veh		32.8			29.2			146.2			25.8	
Approach LOS		C			C			F			C	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	5	6	7	8
Case No	3.0	2.0	3.0	2.0	2.0	3.0	2.0	3.0
Phs Duration (G+Y+Rc), s	32.0	8.6	34.4	15.0	14.7	25.8	4.3	45.1
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	28.0	4.0	31.0	11.0	11.0	21.0	4.0	38.0
Max Allow Headway (MAH), s	4.3	0.0	4.1	4.0	4.1	4.2	4.1	4.0
Max Q Clear (g_c+I1), s	30.0	0.0	29.4	11.3	10.7	2.0	2.2	24.3
Green Ext Time (g_e), s	0.0	0.0	1.1	0.0	0.0	0.0	0.0	5.4
Prob of Phs Call (p_c)	1.00	0.00	1.00	1.00	1.00	1.00	0.07	1.00
Prob of Max Out (p_x)	1.00	0.00	1.00	1.00	1.00	0.00	1.00	0.25

Left-Turn Movement Data								
Assigned Mvmt		1		3	5		7	
Mvmt Sat Flow, veh/h		3191		3191	3191		1645	

Through Movement Data								
Assigned Mvmt	2		4			6		8
Mvmt Sat Flow, veh/h	3282		3282			4715		3282

Right-Turn Movement Data								
Assigned Mvmt	12		14			16		18
Mvmt Sat Flow, veh/h	1468		1468			1468		1468

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	5	0	7	0
Lane Assignment		(Prot)		(Prot)	(Prot)		(Prot)	
Lanes in Grp	0	2	0	2	2	0	1	0

Grp Vol (v), veh/h	0	0	0	335	315	0	3	0
Grp Sat Flow (s), veh/h/ln	0	1596	0	1596	1596	0	1645	0
Q Serve Time (g_s), s	0.0	0.0	0.0	9.3	8.7	0.0	0.2	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	9.3	8.7	0.0	0.2	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	162	0	390	380	0	5	0
V/C Ratio (X)	0.00	0.00	0.00	0.86	0.83	0.00	0.57	0.00
Avail Cap (c_a), veh/h	0	162	0	390	390	0	73	0
Upstream Filter (I)	0.00	0.00	0.00	1.00	1.00	0.00	0.68	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	38.7	38.7	0.0	44.8	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	17.2	13.6	0.0	52.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	55.9	52.3	0.0	96.8	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	4.1	3.8	0.0	0.1	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.9	0.7	0.0	0.1	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	5.0	4.5	0.0	0.2	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.73	0.59	0.00	0.05	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	0	6	0	8
Lane Assignment	T		T			T		T
Lanes in Grp	2	0	2	0	0	3	0	2
Grp Vol (v), veh/h	3	0	1033	0	0	1	0	1028
Grp Sat Flow (s), veh/h/ln	1641	0	1641	0	0	1572	0	1641
Q Serve Time (g_s), s	0.1	0.0	27.4	0.0	0.0	0.0	0.0	22.3
Cycle Q Clear Time (g_c), s	0.1	0.0	27.4	0.0	0.0	0.0	0.0	22.3
Lane Grp Cap (c), veh/h	1021	0	1110	0	0	1145	0	1500
V/C Ratio (X)	0.00	0.00	0.93	0.00	0.00	0.00	0.00	0.69
Avail Cap (c_a), veh/h	1021	0	1130	0	0	1145	0	1500
Upstream Filter (I)	1.00	0.00	0.68	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	21.4	0.0	28.8	0.0	0.0	25.8	0.0	19.3
Incr Delay (d2), s/veh	0.0	0.0	9.8	0.0	0.0	0.0	0.0	1.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	21.4	0.0	38.6	0.0	0.0	25.8	0.0	20.6
1st-Term Q (Q1), veh/ln	0.0	0.0	12.3	0.0	0.0	0.0	0.0	10.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.3

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	13.8	0.0	0.0	0.0	0.0	10.3
%ile Storage Ratio (RQ%)	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.42
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	0	16	0	18
Lane Assignment	R		R			R		R
Lanes in Grp	1	0	1	0	0	1	0	1
Grp Vol (v), veh/h	609	0	358	0	0	1	0	8
Grp Sat Flow (s), veh/h/ln	1468	0	1468	0	0	1468	0	1468
Q Serve Time (g_s), s	28.0	0.0	13.2	0.0	0.0	0.0	0.0	0.2
Cycle Q Clear Time (g_c), s	28.0	0.0	13.2	0.0	0.0	0.0	0.0	0.2
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	457	0	496	0	0	356	0	671
V/C Ratio (X)	1.33	0.00	0.72	0.00	0.00	0.00	0.00	0.01
Avail Cap (c_a), veh/h	457	0	506	0	0	356	0	671
Upstream Filter (I)	1.00	0.00	0.68	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	31.0	0.0	12.3	0.0	0.0	25.8	0.0	7.4
Incr Delay (d2), s/veh	164.4	0.0	3.4	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	195.4	0.0	15.6	0.0	0.0	25.8	0.0	7.4
1st-Term Q (Q1), veh/ln	11.3	0.0	5.3	0.0	0.0	0.0	0.0	0.1
2nd-Term Q (Q2), veh/ln	20.9	0.0	0.5	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	32.1	0.0	5.7	0.0	0.0	0.0	0.0	0.1
%ile Storage Ratio (RQ%)	2.59	0.00	0.67	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	38.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	59.9
HCM 2010 LOS	E

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	3	950	329	308	946	7	290	3	560	0	1	1
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	3	1033	358	335	1028	8	315	3	609	0	1	1
Adj No. of Lanes	1	2	1	2	2	1	2	2	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	5	1110	496	390	1500	671	380	1021	457	162	1145	356
Arrive On Green	0.00	0.34	0.34	0.12	0.46	0.46	0.12	0.31	0.31	0.00	0.24	0.24
Sat Flow, veh/h	1645	3282	1468	3191	3282	1468	3191	3282	1468	3191	4715	1468
Grp Volume(v), veh/h	3	1033	358	335	1028	8	315	3	609	0	1	1
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1596	1641	1468	1596	1641	1468	1596	1572	1468
Q Serve(g_s), s	0.2	27.4	13.2	9.3	22.3	0.2	8.7	0.1	28.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	0.2	27.4	13.2	9.3	22.3	0.2	8.7	0.1	28.0	0.0	0.0	0.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	5	1110	496	390	1500	671	380	1021	457	162	1145	356
V/C Ratio(X)	0.57	0.93	0.72	0.86	0.69	0.01	0.83	0.00	1.33	0.00	0.00	0.00
Avail Cap(c_a), veh/h	73	1130	506	390	1500	671	390	1021	457	162	1145	356
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.68	0.68	0.68	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00
Uniform Delay (d), s/veh	44.8	28.8	12.3	38.7	19.3	7.4	38.7	21.4	31.0	0.0	25.8	25.8
Incr Delay (d2), s/veh	52.0	9.8	3.4	17.2	1.3	0.0	13.6	0.0	164.4	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	13.8	5.7	5.0	10.3	0.1	4.5	0.0	32.1	0.0	0.0	0.0
LnGrp Delay(d),s/veh	96.8	38.6	15.6	55.9	20.6	7.4	52.3	21.4	195.4	0.0	25.8	25.8
LnGrp LOS	F	D	B	E	C	A	D	C	F		C	C
Approach Vol, veh/h		1394			1371			927			2	
Approach Delay, s/veh		32.8			29.2			146.2			25.8	
Approach LOS		C			C			F			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.6	32.0	15.0	34.4	14.7	25.8	4.3	45.1
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	4.0	28.0	11.0	31.0	11.0	21.0	4.0	38.0
Max Q Clear Time (g_c+I1), s	0.2	30.0	11.3	29.4	10.7	2.0	2.2	24.3
Green Ext Time (p_c), s	0.0	0.0	0.0	1.1	0.0	0.0	0.0	5.4

Intersection Summary	
HCM 2010 Ctrl Delay	59.9
HCM 2010 LOS	E

Intersection	
Int Delay, s/veh	3.3

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	310	113	75	496	69	40
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	0	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	337	123	82	539	75	43

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	460	0	1100	398
Stage 1	-	-	-	-	398	-
Stage 2	-	-	-	-	702	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	1060	-	227	635
Stage 1	-	-	-	-	661	-
Stage 2	-	-	-	-	477	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1060	-	209	635
Mov Cap-2 Maneuver	-	-	-	-	209	-
Stage 1	-	-	-	-	661	-
Stage 2	-	-	-	-	440	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.1	27.4
HCM LOS			D

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	277	-	-	1060	-
HCM Lane V/C Ratio	0.428	-	-	0.077	-
HCM Control Delay (s)	27.4	-	-	8.7	-
HCM Lane LOS	D	-	-	A	-
HCM 95th %tile Q(veh)	2	-	-	0.2	-

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL2	SBL	SBR	NWL	NWR	NWR2
Lane Configurations												
Volume (veh/h)	4	52	21	8	123	203	30	40	1	12	53	7
Number	7	4	14	3	8	18	1	1	16	5	12	12
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1520	1520	1520	1520	1520	1520	1759	1759	1759	1759	1759	1759
Adj Flow Rate, veh/h	4	57	23	9	134	221	33	33	1	13	8	8
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	25	25	25	25	25	25	8	8	8	8	8	8
Opposing Right Turn Influence	Yes			Yes			Yes	Yes		Yes		
Cap, veh/h	6	866	388	639	2129	952	42	42	102	21	84	84
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.00	0.30	0.30	0.44	0.74	0.74	0.02	0.02	0.07	0.01	0.06	0.06
Ln Grp Delay, s/veh	124.1	22.6	16.7	14.1	3.3	1.8	70.7	70.7	39.1	71.7	40.8	40.8
Ln Grp LOS	F	C	B	B	A	A	E	E	D	E	D	D
Approach Vol, veh/h		84			364		77	77		79		
Approach Delay, s/veh		25.8			2.6		54.1	54.1		50.4		
Approach LOS		C			A		D	D		D		

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	5	6	7	8
Case No	3.0	2.0	3.0	2.0	2.0	3.0	2.0	3.0
Phs Duration (G+Y+Rc), s	9.0	6.2	31.0	43.7	5.1	10.2	4.4	70.3
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	23.0	13.0	27.0	11.0	11.0	25.0	11.0	27.0
Max Allow Headway (MAH), s	4.1	4.1	4.2	4.3	4.1	4.1	4.2	4.3
Max Q Clear (g_c+I1), s	4.9	3.8	3.3	2.3	2.7	4.1	2.2	4.8
Green Ext Time (g_e), s	0.1	0.1	0.2	0.6	0.0	0.2	0.0	1.4
Prob of Phs Call (p_c)	1.00	0.56	1.00	0.20	0.28	1.00	0.10	1.00
Prob of Max Out (p_x)	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00

Left-Turn Movement Data								
Assigned Mvmt		1		3	5		7	
Mvmt Sat Flow, veh/h		1675		1448	1675		1448	

Through Movement Data								
Assigned Mvmt	2		4			6		8
Mvmt Sat Flow, veh/h	1759		2888			1759		2888

Right-Turn Movement Data								
Assigned Mvmt	12		14			16		18
Mvmt Sat Flow, veh/h	1495		1292			1495		1292

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	5	0	7	0
Lane Assignment		(Prot)		(Prot)	(Prot)		(Prot)	
Lanes in Grp	0	1	0	1	1	0	1	0

Grp Vol (v), veh/h	0	33	0	9	13	0	4	0
Grp Sat Flow (s), veh/h/ln	0	1675	0	1448	1675	0	1448	0
Q Serve Time (g_s), s	0.0	1.8	0.0	0.3	0.7	0.0	0.2	0.0
Cycle Q Clear Time (g_c), s	0.0	1.8	0.0	0.3	0.7	0.0	0.2	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	42	0	639	21	0	6	0
V/C Ratio (X)	0.00	0.79	0.00	0.01	0.63	0.00	0.65	0.00
Avail Cap (c_a), veh/h	0	242	0	639	205	0	177	0
Upstream Filter (I)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	43.6	0.0	14.1	44.2	0.0	44.7	0.0
Incr Delay (d2), s/veh	0.0	27.0	0.0	0.0	27.4	0.0	79.3	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	70.7	0.0	14.1	71.7	0.0	124.1	0.0
1st-Term Q (Q1), veh/ln	0.0	0.8	0.0	0.1	0.3	0.0	0.1	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.3	0.0	0.0	0.2	0.0	0.1	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	1.1	0.0	0.1	0.5	0.0	0.2	0.0
%ile Storage Ratio (RQ%)	0.00	0.06	0.00	0.00	0.03	0.00	0.01	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	0	6	0	8
Lane Assignment	T		T			T		T
Lanes in Grp	1	0	2	0	0	1	0	2
Grp Vol (v), veh/h	58	0	57	0	0	43	0	134
Grp Sat Flow (s), veh/h/ln	1759	0	1444	0	0	1759	0	1444
Q Serve Time (g_s), s	2.9	0.0	1.3	0.0	0.0	2.1	0.0	1.2
Cycle Q Clear Time (g_c), s	2.9	0.0	1.3	0.0	0.0	2.1	0.0	1.2
Lane Grp Cap (c), veh/h	98	0	866	0	0	121	0	2129
V/C Ratio (X)	0.59	0.00	0.07	0.00	0.00	0.36	0.00	0.06
Avail Cap (c_a), veh/h	450	0	866	0	0	489	0	2129
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	41.5	0.0	22.5	0.0	0.0	40.0	0.0	3.3
Incr Delay (d2), s/veh	5.5	0.0	0.1	0.0	0.0	1.8	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	47.0	0.0	22.6	0.0	0.0	41.8	0.0	3.3
1st-Term Q (Q1), veh/ln	1.4	0.0	0.5	0.0	0.0	1.0	0.0	0.4
2nd-Term Q (Q2), veh/ln	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	1.6	0.0	0.5	0.0	0.0	1.1	0.0	0.5
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	0	16	0	18
Lane Assignment	R		R			R		R
Lanes in Grp	1	0	1	0	0	1	0	1
Grp Vol (v), veh/h	8	0	23	0	0	1	0	221
Grp Sat Flow (s), veh/h/ln	1495	0	1292	0	0	1495	0	1292
Q Serve Time (g_s), s	0.5	0.0	1.0	0.0	0.0	0.1	0.0	2.8
Cycle Q Clear Time (g_c), s	0.5	0.0	1.0	0.0	0.0	0.1	0.0	2.8
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	84	0	388	0	0	102	0	952
V/C Ratio (X)	0.10	0.00	0.06	0.00	0.00	0.01	0.00	0.23
Avail Cap (c_a), veh/h	382	0	388	0	0	415	0	952
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	40.3	0.0	16.4	0.0	0.0	39.1	0.0	1.2
Incr Delay (d2), s/veh	0.5	0.0	0.3	0.0	0.0	0.0	0.0	0.6
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	40.8	0.0	16.7	0.0	0.0	39.1	0.0	1.8
1st-Term Q (Q1), veh/ln	0.2	0.0	0.3	0.0	0.0	0.0	0.0	0.9
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.2	0.0	0.4	0.0	0.0	0.0	0.0	1.1
%ile Storage Ratio (RQ%)	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.07
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	18.7
HCM 2010 LOS	B



Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL2	SBL	SBR	NWL	NWR	NWR2
Lane Configurations												
Volume (veh/h)	4	52	21	8	123	203	30	40	1	12	53	7
Number	7	4	14	3	8	18	1	1	16	5	12	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1520	1520	1520	1520	1520	1520	1759	1759	1759	1759	1759	1759
Adj Flow Rate, veh/h	4	57	23	9	134	221	33	33	1	13	8	8
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	25	25	25	25	25	25	8	8	8	8	8	8
Cap, veh/h	6	866	388	639	2129	952	42	42	102	21	84	84
Arrive On Green	0.00	0.30	0.30	0.44	0.74	0.74	0.02	0.02	0.07	0.01	0.06	0.06
Sat Flow, veh/h	1448	2888	1292	1448	2888	1292	1675	1675	1495	1675	1495	1495
Grp Volume(v), veh/h	4	57	23	9	134	221	33	33	1	13	8	8
Grp Sat Flow(s),veh/h/ln	1448	1444	1292	1448	1444	1292	1675	1675	1495	1675	1495	1495
Q Serve(g_s), s	0.2	1.3	1.0	0.3	1.2	2.8	1.8	1.8	0.1	0.7	0.5	0.5
Cycle Q Clear(g_c), s	0.2	1.3	1.0	0.3	1.2	2.8	1.8	1.8	0.1	0.7	0.5	0.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lane Grp Cap(c), veh/h	6	866	388	639	2129	952	42	42	102	21	84	84
V/C Ratio(X)	0.65	0.07	0.06	0.01	0.06	0.23	0.79	0.79	0.01	0.63	0.10	0.10
Avail Cap(c_a), veh/h	177	866	388	639	2129	952	242	242	415	205	382	382
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	44.7	22.5	16.4	14.1	3.3	1.2	43.6	43.6	39.1	44.2	40.3	40.3
Incr Delay (d2), s/veh	79.3	0.1	0.3	0.0	0.1	0.6	27.0	27.0	0.0	27.4	0.5	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.5	0.4	0.1	0.5	1.1	1.1	1.1	0.0	0.5	0.2	0.2
LnGrp Delay(d),s/veh	124.1	22.6	16.7	14.1	3.3	1.8	70.7	70.7	39.1	71.7	40.8	40.8
LnGrp LOS	F	C	B	B	A	A	E	E	D	E	D	D
Approach Vol, veh/h		84			364		77	77		79		
Approach Delay, s/veh		25.8			2.6		54.1	54.1		50.4		
Approach LOS		C			A		D	D		D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	6.2	9.0	43.7	31.0	5.1	10.2	4.4	70.3
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	13.0	23.0	11.0	27.0	11.0	25.0	11.0	27.0
Max Q Clear Time (g_c+I1), s	3.8	4.9	2.3	3.3	2.7	4.1	2.2	4.8
Green Ext Time (p_c), s	0.1	0.1	0.6	0.2	0.0	0.2	0.0	1.4

Intersection Summary	
HCM 2010 Ctrl Delay	18.7
HCM 2010 LOS	B



Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NWL	NWR
Lane Configurations										
Volume (veh/h)	0	196	154	18	913	0	47	144	0	0
Number	7	4	14	3	8	18	1	16		
Initial Q, veh	0	0	0	0	0	0	0	0		
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00		
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Adj Sat Flow, veh/h/ln	0	1520	1900	1900	1520	0	1450	1900		
Adj Flow Rate, veh/h	0	213	167	20	992	0	51	157		
Adj No. of Lanes	0	1	0	0	1	0	0	0		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92		
Percent Heavy Veh, %	0	25	25	25	25	0	0	0		
Opposing Right Turn Influence	No			Yes			Yes			
Cap, veh/h	0	571	448	0	1098	0	58	179		
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Prop Arrive On Green	0.00	0.72	0.72	0.00	0.72	0.00	0.19	0.19		
Ln Grp Delay, s/veh	0.0	0.0	5.8	0.0	21.8	0.0	48.1	0.0		
Ln Grp LOS			A		C		D			

Approach Vol, veh/h	380		992		209		Timer:
Approach Delay, s/veh	5.8		21.8		48.1		Assigned Phs
Approach LOS	A		C		D		Case No
Phs Duration (G+Y+Rc), s	21.0	0.0	69.0			69.0	
Change Period (Y+Rc), s	4.0	4.0	4.0			4.0	
Max Green (Gmax), s	27.0	10.0	41.0			55.0	
Max Allow Headway (MAH), s	4.4	0.0	4.1			4.1	
Max Q Clear (g_c+I1), s	16.4	0.0	11.2			48.9	
Green Ext Time (g_e), s	0.5	0.0	7.5			3.3	
Prob of Phs Call (p_c)	1.00	0.00	1.00			1.00	
Prob of Max Out (p_x)	0.02	0.00	0.00			0.00	

Left-Turn Movement Data								
Assigned Mvmt	1	3	7					
Mvmt Sat Flow, veh/h	309	0	0					

Through Movement Data								
Assigned Mvmt	6		4				8	
Mvmt Sat Flow, veh/h	6		791				1520	

Right-Turn Movement Data								
Assigned Mvmt	16		14				18	
Mvmt Sat Flow, veh/h	952		620				0	

Left Lane Group Data								
Assigned Mvmt	1	0	3	7	0	0	0	0
Lane Assignment	L+T+R							
Lanes in Grp	1	0	0	0	0	0	0	0
Grp Vol (v), veh/h	209	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	1267	0	0	0	0	0	0	0
Q Serve Time (g_s), s	14.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cycle Q Clear Time (g_c), s	14.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	65.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	239	0	0	0	0	0	0	0
V/C Ratio (X)	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	380	0	0	0	0	0	0	0
Upstream Filter (I)	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	35.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	48.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00
%ile Back of Q (50%), veh/ln	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	6	0	0	4	0	0	0	8
Lane Assignment								T
Lanes in Grp	0	0	0	0	0	0	0	1
Grp Vol (v), veh/h	0	0	0	0	0	0	0	992
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	1520
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.9
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.9
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	1098
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.90
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	1098
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.8
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.8
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.3
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.9

%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Right Lane Group Data								
Assigned Mvmt	16	0	0	14	0	0	0	18
Lane Assignment				T+R				
Lanes in Grp	0	0	0	1	0	0	0	0
Grp Vol (v), veh/h	0	0	0	380	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1411	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	9.2	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	9.2	0.0	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.75	0.00	0.00	0.44	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	0	0	1019	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	1019	0	0	0	0
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	4.7	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	5.8	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	3.5	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	3.8	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	21.4
HCM 2010 LOS	C

Notes

User approved volume balancing among the lanes for turning movement.



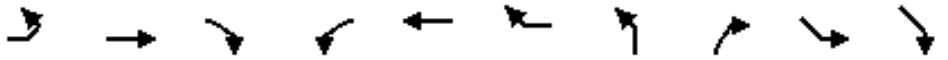
Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NWL	NWR
Lane Configurations										
Volume (veh/h)	0	196	154	18	913	0	47	144	0	0
Number	7	4	14	3	8	18	1	16		
Initial Q (Qb), veh	0	0	0	0	0	0	0	0		
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00		
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Adj Sat Flow, veh/h/ln	0	1520	1900	1900	1520	0	1450	1900		
Adj Flow Rate, veh/h	0	213	167	20	992	0	51	157		
Adj No. of Lanes	0	1	0	0	1	0	0	0		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92		
Percent Heavy Veh, %	0	25	25	25	25	0	0	0		
Cap, veh/h	0	571	448	0	1098	0	58	179		
Arrive On Green	0.00	0.72	0.72	0.00	0.72	0.00	0.19	0.19		
Sat Flow, veh/h	0	791	620	0	1520	0	309	952		
Grp Volume(v), veh/h	0	0	380	0	992	0	209	0		
Grp Sat Flow(s),veh/h/ln	0	0	1411	0	1520	0	1267	0		
Q Serve(g_s), s	0.0	0.0	9.2	0.0	46.9	0.0	14.4	0.0		
Cycle Q Clear(g_c), s	0.0	0.0	9.2	0.0	46.9	0.0	14.4	0.0		
Prop In Lane	0.00		0.44	0.00		0.00	0.24	0.75		
Lane Grp Cap(c), veh/h	0	0	1019	0	1098	0	239	0		
V/C Ratio(X)	0.00	0.00	0.37	0.00	0.90	0.00	0.87	0.00		
Avail Cap(c_a), veh/h	0	0	1019	0	1098	0	380	0		
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Upstream Filter(I)	0.00	0.00	1.00	0.00	0.98	0.00	1.00	0.00		
Uniform Delay (d), s/veh	0.0	0.0	4.7	0.0	10.0	0.0	35.5	0.0		
Incr Delay (d2), s/veh	0.0	0.0	1.0	0.0	11.8	0.0	12.6	0.0		
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
%ile BackOfQ(50%),veh/ln	0.0	0.0	3.8	0.0	22.9	0.0	5.9	0.0		
LnGrp Delay(d),s/veh	0.0	0.0	5.8	0.0	21.8	0.0	48.1	0.0		
LnGrp LOS			A		C		D			
Approach Vol, veh/h		380			992		209			
Approach Delay, s/veh		5.8			21.8		48.1			
Approach LOS		A			C		D			

Timer	1	2	3	4	5	6	7	8
Assigned Phs			3	4		6		8
Phs Duration (G+Y+Rc), s			0.0	69.0		21.0		69.0
Change Period (Y+Rc), s			4.0	4.0		4.0		4.0
Max Green Setting (Gmax), s			10.0	41.0		27.0		55.0
Max Q Clear Time (g_c+I1), s			0.0	11.2		16.4		48.9
Green Ext Time (p_c), s			0.0	7.5		0.5		3.3

Intersection Summary	
HCM 2010 Ctrl Delay	21.4
HCM 2010 LOS	C

Notes

User approved volume balancing among the lanes for turning movement.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBR	SEL	SER
Lane Configurations										
Volume (veh/h)	3	587	0	0	258	186	34	84	0	0
Number	7	4	14	3	8	18	5	12		
Initial Q, veh	0	0	0	0	0	0	0	0		
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00		
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Adj Sat Flow, veh/h/ln	1520	1520	0	0	1520	1520	1900	1900		
Adj Flow Rate, veh/h	3	638	0	0	280	202	0	91		
Adj No. of Lanes	1	1	0	0	1	1	0	0		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92		
Percent Heavy Veh, %	25	25	0	0	25	25	0	0		
Opposing Right Turn Influence	Yes			No			Yes			
Cap, veh/h	5	1199	0	0	1127	958	0	112		
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Prop Arrive On Green	0.00	0.79	0.00	0.00	0.74	0.74	0.00	0.12		
Ln Grp Delay, s/veh	136.8	5.1	0.0	0.0	4.2	4.1	0.0	48.2		
Ln Grp LOS	F	A			A	A		D		

Approach Vol, veh/h	641		482		128		Timer:
Approach Delay, s/veh	5.7		4.2		48.2		Assigned Phs
Approach LOS	A		A		D		Case No
Phs Duration (G+Y+Rc), s		15.0	75.0			4.3	70.7
Change Period (Y+Rc), s		4.0	4.0			4.0	4.0
Max Green (Gmax), s		21.0	61.0			9.0	48.0
Max Allow Headway (MAH), s		4.3	4.1			4.2	4.1
Max Q Clear (g_c+I1), s		10.7	15.7			2.2	7.3
Green Ext Time (g_e), s		0.3	5.0			0.0	5.0
Prob of Phs Call (p_c)		1.00	1.00			0.07	1.00
Prob of Max Out (p_x)		0.01	0.00			0.00	0.00

Left-Turn Movement Data										
Assigned Mvmt			5					7	3	
Mvmt Sat Flow, veh/h			0					1448	0	

Through Movement Data										
Assigned Mvmt			2		4				8	
Mvmt Sat Flow, veh/h			373		1520				1520	

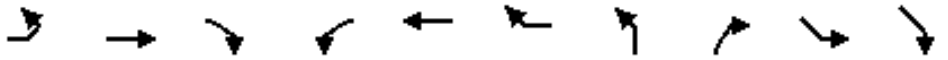
Right-Turn Movement Data										
Assigned Mvmt			12		14				18	
Mvmt Sat Flow, veh/h			916		0				1292	

Left Lane Group Data										
Assigned Mvmt	0	5	0	0	0	0	7	3		
Lane Assignment							(Prot)			
Lanes in Grp	0	0	0	0	0	0	1	0		
Grp Vol (v), veh/h	0	0	0	0	0	0	3	0		
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	1448	0		
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0		

Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.7
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	5	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	0	145	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.95	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	44.8	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	92.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	136.8	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	0	0	8
Lane Assignment				T				T
Lanes in Grp	0	0	0	1	0	0	0	1
Grp Vol (v), veh/h	0	0	0	638	0	0	0	280
Grp Sat Flow (s), veh/h/ln	0	0	0	1520	0	0	0	1520
Q Serve Time (g_s), s	0.0	0.0	0.0	13.7	0.0	0.0	0.0	5.3
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	13.7	0.0	0.0	0.0	5.3
Lane Grp Cap (c), veh/h	0	0	0	1199	0	0	0	1127
V/C Ratio (X)	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.25
Avail Cap (c_a), veh/h	0	0	0	1199	0	0	0	1127
Upstream Filter (I)	0.00	0.00	0.00	0.95	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	3.5	0.0	0.0	0.0	3.7
Incr Delay (d2), s/veh	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.5
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	5.1	0.0	0.0	0.0	4.2
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	5.7	0.0	0.0	0.0	2.2
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.2
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	6.2	0.0	0.0	0.0	2.3

%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	0	0	18
Lane Assignment		T+R						R
Lanes in Grp	0	1	0	0	0	0	0	1
Grp Vol (v), veh/h	0	128	0	0	0	0	0	202
Grp Sat Flow (s), veh/h/ln	0	1289	0	0	0	0	0	1292
Q Serve Time (g_s), s	0.0	8.7	0.0	0.0	0.0	0.0	0.0	4.3
Cycle Q Clear Time (g_c), s	0.0	8.7	0.0	0.0	0.0	0.0	0.0	4.3
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.71	0.00	0.00	0.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	157	0	0	0	0	0	958
V/C Ratio (X)	0.00	0.81	0.00	0.00	0.00	0.00	0.00	0.21
Avail Cap (c_a), veh/h	0	301	0	0	0	0	0	958
Upstream Filter (I)	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	38.5	0.0	0.0	0.0	0.0	0.0	3.6
Incr Delay (d2), s/veh	0.0	9.7	0.0	0.0	0.0	0.0	0.0	0.5
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	48.2	0.0	0.0	0.0	0.0	0.0	4.1
1st-Term Q (Q1), veh/ln	0.0	3.1	0.0	0.0	0.0	0.0	0.0	1.5
2nd-Term Q (Q2), veh/ln	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	3.5	0.0	0.0	0.0	0.0	0.0	1.6
%ile Storage Ratio (RQ%)	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.09
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	9.4
HCM 2010 LOS	A



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBR	SEL	SER
Lane Configurations										
Volume (veh/h)	3	587	0	0	258	186	34	84	0	0
Number	7	4	14	3	8	18	5	12		
Initial Q (Qb), veh	0	0	0	0	0	0	0	0		
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00		
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Adj Sat Flow, veh/h/ln	1520	1520	0	0	1520	1520	1900	1900		
Adj Flow Rate, veh/h	3	638	0	0	280	202	0	91		
Adj No. of Lanes	1	1	0	0	1	1	0	0		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92		
Percent Heavy Veh, %	25	25	0	0	25	25	0	0		
Cap, veh/h	5	1199	0	0	1127	958	0	112		
Arrive On Green	0.00	0.79	0.00	0.00	0.74	0.74	0.00	0.12		
Sat Flow, veh/h	1448	1520	0	0	1520	1292	0	916		
Grp Volume(v), veh/h	3	638	0	0	280	202	0	128		
Grp Sat Flow(s),veh/h/ln	1448	1520	0	0	1520	1292	0	1289		
Q Serve(g_s), s	0.2	13.7	0.0	0.0	5.3	4.3	0.0	8.7		
Cycle Q Clear(g_c), s	0.2	13.7	0.0	0.0	5.3	4.3	0.0	8.7		
Prop In Lane	1.00		0.00	0.00		1.00	0.00	0.71		
Lane Grp Cap(c), veh/h	5	1199	0	0	1127	958	0	157		
V/C Ratio(X)	0.65	0.53	0.00	0.00	0.25	0.21	0.00	0.81		
Avail Cap(c_a), veh/h	145	1199	0	0	1127	958	0	301		
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Upstream Filter(I)	0.95	0.95	0.00	0.00	1.00	1.00	0.00	1.00		
Uniform Delay (d), s/veh	44.8	3.5	0.0	0.0	3.7	3.6	0.0	38.5		
Incr Delay (d2), s/veh	92.0	1.6	0.0	0.0	0.5	0.5	0.0	9.7		
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
%ile BackOfQ(50%),veh/ln	0.2	6.2	0.0	0.0	2.3	1.6	0.0	3.5		
LnGrp Delay(d),s/veh	136.8	5.1	0.0	0.0	4.2	4.1	0.0	48.2		
LnGrp LOS	F	A			A	A		D		
Approach Vol, veh/h		641			482		128			
Approach Delay, s/veh		5.7			4.2		48.2			
Approach LOS		A			A		D			

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4			7	8
Phs Duration (G+Y+Rc), s		15.0		75.0			4.3	70.7
Change Period (Y+Rc), s		4.0		4.0			4.0	4.0
Max Green Setting (Gmax), s		21.0		61.0			9.0	48.0
Max Q Clear Time (g_c+I1), s		10.7		15.7			2.2	7.3
Green Ext Time (p_c), s		0.3		5.0			0.0	5.0

Intersection Summary	
HCM 2010 Ctrl Delay	9.4
HCM 2010 LOS	A

Intersection	
Int Delay, s/veh	1.4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	92	6	49	240	10	6
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	24	24	24	24	10	10
Mvmt Flow	100	7	53	261	11	7

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	107	0	470	103
Stage 1	-	-	-	-	103	-
Stage 2	-	-	-	-	367	-
Critical Hdwy	-	-	4.34	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.416	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	1357	-	538	930
Stage 1	-	-	-	-	902	-
Stage 2	-	-	-	-	684	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1357	-	513	930
Mov Cap-2 Maneuver	-	-	-	-	513	-
Stage 1	-	-	-	-	902	-
Stage 2	-	-	-	-	653	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.3	11
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	617	-	-	1357	-
HCM Lane V/C Ratio	0.028	-	-	0.039	-
HCM Control Delay (s)	11	-	-	7.8	0
HCM Lane LOS	B	-	-	A	A
HCM 95th %tile Q(veh)	0.1	-	-	0.1	-

Intersection	
Int Delay, s/veh	21.1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	504	102	71	10	19	49
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	8	8	8	8
Mvmt Flow	548	111	77	11	21	53

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	178	83	0	0	88	0
Stage 1	83	-	-	-	-	-
Stage 2	95	-	-	-	-	-
Critical Hdwy	6.5	6.3	-	-	4.18	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	-	-	2.272	-
Pot Cap-1 Maneuver	794	955	-	-	1471	-
Stage 1	920	-	-	-	-	-
Stage 2	909	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	782	955	-	-	1471	-
Mov Cap-2 Maneuver	782	-	-	-	-	-
Stage 1	920	-	-	-	-	-
Stage 2	895	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	26	0	2.1
HCM LOS	D		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	807	1471	-
HCM Lane V/C Ratio	-	-	0.816	0.014	-
HCM Control Delay (s)	-	-	26	7.5	0
HCM Lane LOS	-	-	D	A	A
HCM 95th %tile Q(veh)	-	-	9	0	-

Intersection	
Intersection Delay, s/veh	34.4
Intersection LOS	D

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	1	17	0	0	171	486	21	0	0	27	4
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	8	8	8	10	8	8	8	10	10	10	10
Mvmt Flow	0	1	18	0	0	186	528	23	0	0	29	4
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	1	1	1
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	1	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	1	1
HCM Control Delay	8.7	40.9	9.6
HCM LOS	A	E	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	6%	25%	26%
Vol Thru, %	87%	94%	72%	34%
Vol Right, %	13%	0%	3%	40%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	31	18	678	135
LT Vol	0	1	171	35
Through Vol	27	17	486	46
RT Vol	4	0	21	54
Lane Flow Rate	34	20	737	147
Geometry Grp	1	1	1	1
Degree of Util (X)	0.058	0.03	0.942	0.234
Departure Headway (Hd)	6.179	5.526	4.604	5.746
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	583	651	781	618
Service Time	4.181	3.529	2.661	3.842
HCM Lane V/C Ratio	0.058	0.031	0.944	0.238
HCM Control Delay	9.6	8.7	40.9	10.6
HCM Lane LOS	A	A	E	B
HCM 95th-tile Q	0.2	0.1	14	0.9

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	35	46	54
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10
Mvmt Flow	0	38	50	59
Number of Lanes	0	0	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	1
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	10.6
HCM LOS	B

Lane

Intersection	
Int Delay, s/veh	0.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NWL	NWR
Vol, veh/h	0	9	7	0	673	0	10	4	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	None	-	-
Storage Length	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	0	-	0	-
Grade, %	-	0	-	-	0	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	24	24	10	10
Mvmt Flow	0	10	8	0	732	0	11	4	0	0

Major/Minor	Major1			Major2			Minor2			
Conflicting Flow All	732	0	0	17	0	0	746	732		
Stage 1	-	-	-	-	-	-	732	-		
Stage 2	-	-	-	-	-	-	14	-		
Critical Hdwy	4.2	-	-	4.2	-	-	6.64	6.44		
Critical Hdwy Stg 1	-	-	-	-	-	-	5.64	-		
Critical Hdwy Stg 2	-	-	-	-	-	-	5.64	-		
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.716	3.516		
Pot Cap-1 Maneuver	837	-	-	1550	-	-	351	387		
Stage 1	-	-	-	-	-	-	438	-		
Stage 2	-	-	-	-	-	-	955	-		
Platoon blocked, %		-	-		-	-				
Mov Cap-1 Maneuver	837	-	-	1550	-	-	351	387		
Mov Cap-2 Maneuver	-	-	-	-	-	-	351	-		
Stage 1	-	-	-	-	-	-	438	-		
Stage 2	-	-	-	-	-	-	955	-		

Approach	EB	WB	SB
HCM Control Delay, s	0	0	14.7
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	837	-	-	1550	-	-	387
HCM Lane V/C Ratio	-	-	-	-	-	-	0.039
HCM Control Delay (s)	0	-	-	0	-	-	14.7
HCM Lane LOS	A	-	-	A	-	-	B
HCM 95th %tile Q(veh)	0	-	-	0	-	-	0.1

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SEL	SET	SER	NWL	NWT	NWR
Vol, veh/h	1	19	0	0	332	52	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	24	24	24	24	24	24
Mvmt Flow	1	21	0	0	361	57	0	0	0	0	0	0

Major/Minor	Major1			Major2			Minor1		
Conflicting Flow All	417	0	0	21	0	0	412	440	21
Stage 1	-	-	-	-	-	-	23	23	-
Stage 2	-	-	-	-	-	-	389	417	-
Critical Hdwy	4.2	-	-	4.2	-	-	6.64	6.74	6.44
Critical Hdwy Stg 1	-	-	-	-	-	-	5.64	5.74	-
Critical Hdwy Stg 2	-	-	-	-	-	-	5.64	5.74	-
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.716	4.216	3.516
Pot Cap-1 Maneuver	1100	-	-	1544	-	-	556	479	996
Stage 1	-	-	-	-	-	-	946	834	-
Stage 2	-	-	-	-	-	-	639	555	-
Platoon blocked, %		-	-		-	-			
Mov Cap-1 Maneuver	1100	-	-	1544	-	-	555	0	996
Mov Cap-2 Maneuver	-	-	-	-	-	-	555	0	-
Stage 1	-	-	-	-	-	-	945	0	-
Stage 2	-	-	-	-	-	-	639	0	-

Approach	EB	WB	NW
HCM Control Delay, s	0.4	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NWLn1	EBL	EBT	EBR	WBL	WBT	WBR
Capacity (veh/h)	-	1100	-	-	1544	-	-
HCM Lane V/C Ratio	-	0.001	-	-	-	-	-
HCM Control Delay (s)	0	8.3	0	-	0	-	-
HCM Lane LOS	A	A	A	-	A	-	-
HCM 95th %tile Q(veh)	-	0	-	-	0	-	-

Intersection	
Int Delay, s/veh	5

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	0	0	214	29	98	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	0	233	32	107	0

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	604	107	107	0	-	0
Stage 1	107	-	-	-	-	-
Stage 2	497	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	449	926	1435	-	-	-
Stage 1	898	-	-	-	-	-
Stage 2	595	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	375	926	1435	-	-	-
Mov Cap-2 Maneuver	375	-	-	-	-	-
Stage 1	898	-	-	-	-	-
Stage 2	497	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	0	7	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1435	-	-	-	-
HCM Lane V/C Ratio	0.162	-	-	-	-
HCM Control Delay (s)	8	0	0	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0.6	-	-	-	-

Intersection	
Int Delay, s/veh	0

Movement	NBL	NBT	SBT	SBR	SEL	SER
Vol, veh/h	0	57	94	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	62	102	0	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	102	0	-	0	164	102
Stage 1	-	-	-	-	102	-
Stage 2	-	-	-	-	62	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1441	-	-	-	808	932
Stage 1	-	-	-	-	902	-
Stage 2	-	-	-	-	941	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1441	-	-	-	808	932
Mov Cap-2 Maneuver	-	-	-	-	808	-
Stage 1	-	-	-	-	902	-
Stage 2	-	-	-	-	941	-

Approach	NB	SB	SE
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBL	NBT	SELn1	SBT	SBR
Capacity (veh/h)	1441	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	0	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	-	-	-

Intersection	
Int Delay, s/veh	1.5

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	49	21	531	98	4	117
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	8	8	8	8
Mvmt Flow	53	23	577	107	4	127

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	766	630	0	0	684	0
Stage 1	630	-	-	-	-	-
Stage 2	136	-	-	-	-	-
Critical Hdwy	6.5	6.3	-	-	4.18	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	-	-	2.272	-
Pot Cap-1 Maneuver	360	467	-	-	882	-
Stage 1	516	-	-	-	-	-
Stage 2	871	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	358	467	-	-	882	-
Mov Cap-2 Maneuver	358	-	-	-	-	-
Stage 1	516	-	-	-	-	-
Stage 2	867	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	16.6	0	0.3
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	385	882	-
HCM Lane V/C Ratio	-	-	0.198	0.005	-
HCM Control Delay (s)	-	-	16.6	9.1	0
HCM Lane LOS	-	-	C	A	A
HCM 95th %tile Q(veh)	-	-	0.7	0	-

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NWL	NWR
Vol, veh/h	0	36	1	3	277	171	16	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	None	-	-
Storage Length	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	0	-	0	-
Grade, %	-	0	-	-	0	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	24	24	24	24
Mvmt Flow	0	39	1	3	301	186	17	0	0	0

Major/Minor	Major1			Major2			Minor2			
Conflicting Flow All	487	0	0	40	0	0	441	394		
Stage 1	-	-	-	-	-	-	401	-		
Stage 2	-	-	-	-	-	-	40	-		
Critical Hdwy	4.2	-	-	4.2	-	-	6.64	6.44		
Critical Hdwy Stg 1	-	-	-	-	-	-	5.64	-		
Critical Hdwy Stg 2	-	-	-	-	-	-	5.64	-		
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.716	3.516		
Pot Cap-1 Maneuver	1036	-	-	1520	-	-	535	610		
Stage 1	-	-	-	-	-	-	631	-		
Stage 2	-	-	-	-	-	-	929	-		
Platoon blocked, %		-	-		-	-				
Mov Cap-1 Maneuver	1036	-	-	1520	-	-	533	610		
Mov Cap-2 Maneuver	-	-	-	-	-	-	533	-		
Stage 1	-	-	-	-	-	-	629	-		
Stage 2	-	-	-	-	-	-	929	-		

Approach	EB	WB	SB
HCM Control Delay, s	0	0	
HCM LOS			-

Minor Lane/Major Mvmt	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	1036	-	-	1520	-	-	-
HCM Lane V/C Ratio	-	-	-	0.002	-	-	-
HCM Control Delay (s)	0	-	-	7.4	0	-	-
HCM Lane LOS	A	-	-	A	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0	-	-	-

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NWL	NWR
Vol, veh/h	67	0	0	468	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	24	24
Mvmt Flow	73	0	0	509	0	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	73	0	582	73
Stage 1	-	-	-	-	73	-
Stage 2	-	-	-	-	509	-
Critical Hdwy	-	-	4.2	-	6.64	6.44
Critical Hdwy Stg 1	-	-	-	-	5.64	-
Critical Hdwy Stg 2	-	-	-	-	5.64	-
Follow-up Hdwy	-	-	2.29	-	3.716	3.516
Pot Cap-1 Maneuver	-	-	1477	-	441	931
Stage 1	-	-	-	-	897	-
Stage 2	-	-	-	-	561	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1477	-	441	931
Mov Cap-2 Maneuver	-	-	-	-	441	-
Stage 1	-	-	-	-	897	-
Stage 2	-	-	-	-	561	-

Approach	EB	WB	NW
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NWLn1	NWLn2	EBT	EBR	WBL	WBT
Capacity (veh/h)	-	-	-	-	1477	-
HCM Lane V/C Ratio	-	-	-	-	-	-
HCM Control Delay (s)	0	0	-	-	0	-
HCM Lane LOS	A	A	-	-	A	-
HCM 95th %tile Q(veh)	-	-	-	-	0	-

Intersection	
Int Delay, s/veh	0.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NEL	NER
Vol, veh/h	0	67	1	36	391	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	0	-	0	-
Grade, %	-	0	-	-	0	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	25	25	25	25	25	25	10	10	10	10
Mvmt Flow	0	73	1	39	425	0	0	0	0	0

Major/Minor	Major1			Major2			Minor2		Minor1	
Conflicting Flow All	425	0	0	74	0	0	576	425	576	73
Stage 1	-	-	-	-	-	-	503	-	73	-
Stage 2	-	-	-	-	-	-	73	-	503	-
Critical Hdwy	4.35	-	-	4.35	-	-	7.2	6.3	7.2	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	6.2	-	6.2	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.2	-	6.2	-
Follow-up Hdwy	2.425	-	-	2.425	-	-	3.59	3.39	3.59	3.39
Pot Cap-1 Maneuver	1022	-	-	1392	-	-	417	612	417	967
Stage 1	-	-	-	-	-	-	536	-	917	-
Stage 2	-	-	-	-	-	-	917	-	536	-
Platoon blocked, %		-	-		-	-				
Mov Cap-1 Maneuver	1022	-	-	1392	-	-	405	612	405	967
Mov Cap-2 Maneuver	-	-	-	-	-	-	405	-	405	-
Stage 1	-	-	-	-	-	-	536	-	917	-
Stage 2	-	-	-	-	-	-	917	-	516	-

Approach	EB	WB	SB	NE
HCM Control Delay, s	0	0.6	0	0
HCM LOS			A	A

Minor Lane/Major Mvmt	NELn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	-	1022	-	-	1392	-	-	-
HCM Lane V/C Ratio	-	-	-	-	0.028	-	-	-
HCM Control Delay (s)	0	0	-	-	7.7	0	-	0
HCM Lane LOS	A	A	-	-	A	A	-	A
HCM 95th %tile Q(veh)	-	0	-	-	0.1	-	-	-

Intersection	
Intersection Delay, s/veh	0
Intersection LOS	-

Movement	NBU	NBT	NBR	SBU	SBL	SBT	SWU	SWL	SWR
Vol, veh/h	0	0	0	0	0	0	0	0	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	8	8	10	8	8	10	10	10
Mvmt Flow	0	0	0	0	0	0	0	0	0
Number of Lanes	0	1	0	0	0	1	0	0	1

Approach	NB	SB	SW
Opposing Approach	SB	NB	
Opposing Lanes	1	1	0
Conflicting Approach Left		SW	NB
Conflicting Lanes Left	0	1	1
Conflicting Approach Right	SW		SB
Conflicting Lanes Right	1	0	1
HCM Control Delay	0	0	0
HCM LOS	-	-	-

Lane	NBLn1	SBLn1	SWLn1
Vol Left, %	0%	0%	0%
Vol Thru, %	100%	100%	100%
Vol Right, %	0%	0%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	0	0	0
LT Vol	0	0	0
Through Vol	0	0	0
RT Vol	0	0	0
Lane Flow Rate	0	0	0
Geometry Grp	1	1	1
Degree of Util (X)	0	0	0
Departure Headway (Hd)	4.036	4.036	4.07
Convergence, Y/N	Yes	Yes	Yes
Cap	0	0	0
Service Time	2.036	2.036	2.07
HCM Lane V/C Ratio	0	0	0
HCM Control Delay	7	7	7.1
HCM Lane LOS	N	N	N
HCM 95th-tile Q	0	0	0

Intersection	
Int Delay, s/veh	-

Movement	NBT	NBR	SBL	SBT	SWL	SWR
Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	8	8	8	8	10	10
Mvmt Flow	0	0	0	0	0	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	0	0	0	0
Stage 1	-	-	-	-	0	-
Stage 2	-	-	-	-	0	-
Critical Hdwy	-	-	4.18	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.272	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	NB	SB	SW
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBT	NBR	SBL	SBT	SWLn1
Capacity (veh/h)	-	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	-	-	0	-	0
HCM Lane LOS	-	-	A	-	A
HCM 95th %tile Q(veh)	-	-	-	-	-

Intersection	
Int Delay, s/veh	1.4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	92	6	49	240	10	6
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	100	7	53	261	11	7

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	107	0	470	103
Stage 1	-	-	-	-	103	-
Stage 2	-	-	-	-	367	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	1435	-	538	930
Stage 1	-	-	-	-	902	-
Stage 2	-	-	-	-	684	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1435	-	515	930
Mov Cap-2 Maneuver	-	-	-	-	515	-
Stage 1	-	-	-	-	902	-
Stage 2	-	-	-	-	655	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.3	10.9
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	NBLn2	EBT	EBR	WBL	WBT
Capacity (veh/h)	515	930	-	-	1435	-
HCM Lane V/C Ratio	0.021	0.007	-	-	0.037	-
HCM Control Delay (s)	12.1	8.9	-	-	7.6	0
HCM Lane LOS	B	A	-	-	A	A
HCM 95th %tile Q(veh)	0.1	0	-	-	0.1	-

Intersection	
Int Delay, s/veh	4.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	4	8	3	28	59	5	11	46	9	2	68	31
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	4	9	3	30	64	5	12	50	10	2	74	34

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	209	179	91	180	191	55	108	0	0	60	0	0
Stage 1	95	95	-	79	79	-	-	-	-	-	-	-
Stage 2	114	84	-	101	112	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.2	6.6	6.3	4.2	-	-	4.2	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.59	4.09	3.39	2.29	-	-	2.29	-	-
Pot Cap-1 Maneuver	731	701	945	764	690	990	1434	-	-	1494	-	-
Stage 1	892	801	-	910	814	-	-	-	-	-	-	-
Stage 2	872	810	-	886	788	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	670	694	945	748	683	990	1434	-	-	1494	-	-
Mov Cap-2 Maneuver	670	694	-	748	683	-	-	-	-	-	-	-
Stage 1	884	800	-	902	807	-	-	-	-	-	-	-
Stage 2	791	803	-	872	787	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	10.1	10.9	1.3	0.1
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1434	-	-	726	714	1494	-	-
HCM Lane V/C Ratio	0.008	-	-	0.022	0.14	0.001	-	-
HCM Control Delay (s)	7.5	0	-	10.1	10.9	7.4	0	-
HCM Lane LOS	A	A	-	B	B	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0.5	0	-	-

Intersection	
Int Delay, s/veh	0.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	5	4	3	1	5	1	9	179	2	1	196	9
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	362	-	-	401	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	22	22	22	22	22	22	25	25	25	25	25	25
Mvmt Flow	5	4	3	1	5	1	10	195	2	1	213	10

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	438	436	218	439	440	196	223	0	0	197	0	0
Stage 1	220	220	-	215	215	-	-	-	-	-	-	-
Stage 2	218	216	-	224	225	-	-	-	-	-	-	-
Critical Hdwy	7.32	6.72	6.42	7.32	6.72	6.42	4.35	-	-	4.35	-	-
Critical Hdwy Stg 1	6.32	5.72	-	6.32	5.72	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.32	5.72	-	6.32	5.72	-	-	-	-	-	-	-
Follow-up Hdwy	3.698	4.198	3.498	3.698	4.198	3.498	2.425	-	-	2.425	-	-
Pot Cap-1 Maneuver	496	485	774	495	482	797	1221	-	-	1249	-	-
Stage 1	739	685	-	744	689	-	-	-	-	-	-	-
Stage 2	741	688	-	735	682	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	488	481	774	486	478	797	1221	-	-	1249	-	-
Mov Cap-2 Maneuver	488	481	-	486	478	-	-	-	-	-	-	-
Stage 1	733	684	-	738	683	-	-	-	-	-	-	-
Stage 2	728	682	-	727	681	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	11.9	12.2	0.4	0
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1221	-	-	535	508	1249	-	-
HCM Lane V/C Ratio	0.008	-	-	0.024	0.015	0.001	-	-
HCM Control Delay (s)	8	-	-	11.9	12.2	7.9	-	-
HCM Lane LOS	A	-	-	B	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0	0	-	-

Intersection	
Int Delay, s/veh	0.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	0	80	1	5	394	3	10	5	0	5	3	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	12	12	12	12	12	12	10	10	10	10	10	10
Mvmt Flow	0	87	1	5	428	3	11	5	0	5	3	0

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	432	0	0	88	0	0	530	530	88	531	529	430
Stage 1	-	-	-	-	-	-	88	88	-	441	441	-
Stage 2	-	-	-	-	-	-	442	442	-	90	88	-
Critical Hdwy	4.22	-	-	4.22	-	-	7.2	6.6	6.3	7.2	6.6	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Follow-up Hdwy	2.308	-	-	2.308	-	-	3.59	4.09	3.39	3.59	4.09	3.39
Pot Cap-1 Maneuver	1076	-	-	1447	-	-	447	443	949	447	444	608
Stage 1	-	-	-	-	-	-	900	807	-	580	564	-
Stage 2	-	-	-	-	-	-	579	563	-	898	807	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1076	-	-	1447	-	-	443	441	949	441	442	608
Mov Cap-2 Maneuver	-	-	-	-	-	-	443	441	-	441	442	-
Stage 1	-	-	-	-	-	-	900	807	-	580	561	-
Stage 2	-	-	-	-	-	-	573	560	-	892	807	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0	0.1	13.5	13.3
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	442	1076	-	-	1447	-	-	441
HCM Lane V/C Ratio	0.037	-	-	-	0.004	-	-	0.02
HCM Control Delay (s)	13.5	0	-	-	7.5	0	-	13.3
HCM Lane LOS	B	A	-	-	A	A	-	B
HCM 95th %tile Q(veh)	0.1	0	-	-	0	-	-	0.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	182	248	37	27	171	5	92	69	120	8	9	39
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1696	1696	1696	1696	1696	1900	1727	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	198	270	40	29	186	5	100	75	130	9	10	42
Adj No. of Lanes	1	1	1	1	1	0	1	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	12	12	12	12	12	12	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	606	622	529	372	365	10	147	153	266	51	41	103
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.37	0.37	0.37	0.23	0.22	0.22	0.09	0.27	0.27	0.14	0.14	0.14
Ln Grp Delay, s/veh	20.3	23.7	18.8	27.2	0.0	35.6	45.1	0.0	28.5	36.0	0.0	0.0
Ln Grp LOS	C	C	B	C		D	D		C	D		
Approach Vol, veh/h		508			220			305			61	
Approach Delay, s/veh		22.0			34.5			34.0			36.0	
Approach LOS		C			C			C			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2	4	3	6	5	8	7
Case No		4.0	3.0	2.0	8.4	2.0	4.0	2.0
Phs Duration (G+Y+Rc), s		28.3	37.0	24.7	16.2	12.1	24.0	37.7
Change Period (Y+Rc), s		4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s		38.0	33.0	7.0	17.0	17.0	20.0	20.0
Max Allow Headway (MAH), s		4.2	4.1	4.1	4.3	4.2	4.0	4.1
Max Q Clear (g_c+I1), s		12.0	12.8	3.3	12.1	7.3	10.9	9.9
Green Ext Time (g_e), s		1.1	1.0	0.3	0.0	0.8	0.4	0.5
Prob of Phs Call (p_c)		1.00	1.00	0.52	1.00	1.00	1.00	0.99
Prob of Max Out (p_x)		0.00	0.00	1.00	0.56	0.05	0.00	0.02

Left-Turn Movement Data								
Assigned Mvmt				3	1	5		7
Mvmt Sat Flow, veh/h				1616	38	1645		1616

Through Movement Data							
Assigned Mvmt		2	4		6		8	
Mvmt Sat Flow, veh/h		568	1696		306		1644	

Right-Turn Movement Data							
Assigned Mvmt		12	14		16		18	
Mvmt Sat Flow, veh/h		985	1442		761		44	

Left Lane Group Data								
Assigned Mvmt	0	0	0	3	1	5	0	7
Lane Assignment				(Prot)	L+T+R	(Prot)		(Prot)
Lanes in Grp	0	0	0	1	1	1	0	1

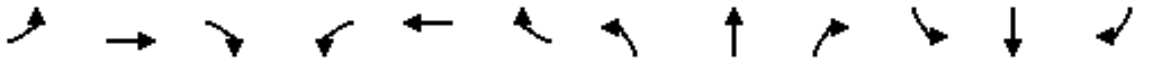
Grp Vol (v), veh/h	0	0	0	29	61	100	0	198
Grp Sat Flow (s), veh/h/ln	0	0	0	1616	1105	1645	0	1616
Q Serve Time (g_s), s	0.0	0.0	0.0	1.3	0.1	5.3	0.0	7.9
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	1.3	10.1	5.3	0.0	7.9
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	1196	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	12.2	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	6.7	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.00	0.00	1.00	0.15	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	0	0	372	196	147	0	606
V/C Ratio (X)	0.00	0.00	0.00	0.08	0.31	0.68	0.00	0.33
Avail Cap (c_a), veh/h	0	0	0	372	272	311	0	606
Upstream Filter (I)	0.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	27.1	35.1	39.7	0.0	20.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.1	0.9	5.4	0.0	0.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	27.2	36.0	45.1	0.0	20.3
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.6	1.4	2.4	0.0	3.5
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.6	1.4	2.6	0.0	3.6
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.16	0.02	0.44	0.00	1.19
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	6	0	8	0
Lane Assignment			T					
Lanes in Grp	0	0	1	0	0	0	0	0
Grp Vol (v), veh/h	0	0	270	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	1696	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	10.8	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	10.8	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	622	0	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	622	0	0	0	0	0
Upstream Filter (I)	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	21.5	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	23.7	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	5.4	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	14	0	16	0	18	0
Lane Assignment		T+R	R				T+R	
Lanes in Grp	0	1	1	0	0	0	1	0
Grp Vol (v), veh/h	0	205	40	0	0	0	191	0
Grp Sat Flow (s), veh/h/ln	0	1553	1442	0	0	0	1689	0
Q Serve Time (g_s), s	0.0	10.0	1.6	0.0	0.0	0.0	8.9	0.0
Cycle Q Clear Time (g_c), s	0.0	10.0	1.6	0.0	0.0	0.0	8.9	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.63	1.00	0.00	0.69	0.00	0.03	0.00
Lane Grp Cap (c), veh/h	0	419	529	0	0	0	375	0
V/C Ratio (X)	0.00	0.49	0.08	0.00	0.00	0.00	0.51	0.00
Avail Cap (c_a), veh/h	0	656	529	0	0	0	375	0
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	27.7	18.6	0.0	0.0	0.0	30.7	0.0
Incr Delay (d2), s/veh	0.0	0.9	0.3	0.0	0.0	0.0	4.9	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	28.5	18.8	0.0	0.0	0.0	35.6	0.0
1st-Term Q (Q1), veh/ln	0.0	4.3	0.6	0.0	0.0	0.0	4.1	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.0	0.0	0.0	0.5	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	4.4	0.7	0.0	0.0	0.0	4.6	0.0
%ile Storage Ratio (RQ%)	0.00	0.01	0.24	0.00	0.00	0.00	0.07	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	28.6
HCM 2010 LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	182	248	37	27	171	5	92	69	120	8	9	39
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1696	1696	1696	1696	1696	1900	1727	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	198	270	40	29	186	5	100	75	130	9	10	42
Adj No. of Lanes	1	1	1	1	1	0	1	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	12	12	12	12	12	12	10	10	10	10	10	10
Cap, veh/h	606	622	529	372	365	10	147	153	266	51	41	103
Arrive On Green	0.37	0.37	0.37	0.23	0.22	0.22	0.09	0.27	0.27	0.14	0.14	0.14
Sat Flow, veh/h	1616	1696	1442	1616	1644	44	1645	568	985	38	306	761
Grp Volume(v), veh/h	198	270	40	29	0	191	100	0	205	61	0	0
Grp Sat Flow(s),veh/h/ln	1616	1696	1442	1616	0	1689	1645	0	1553	1105	0	0
Q Serve(g_s), s	7.9	10.8	1.6	1.3	0.0	8.9	5.3	0.0	10.0	0.1	0.0	0.0
Cycle Q Clear(g_c), s	7.9	10.8	1.6	1.3	0.0	8.9	5.3	0.0	10.0	10.1	0.0	0.0
Prop In Lane	1.00		1.00	1.00		0.03	1.00		0.63	0.15		0.69
Lane Grp Cap(c), veh/h	606	622	529	372	0	375	147	0	419	196	0	0
V/C Ratio(X)	0.33	0.43	0.08	0.08	0.00	0.51	0.68	0.00	0.49	0.31	0.00	0.00
Avail Cap(c_a), veh/h	606	622	529	372	0	375	311	0	656	272	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	20.0	21.5	18.6	27.1	0.0	30.7	39.7	0.0	27.7	35.1	0.0	0.0
Incr Delay (d2), s/veh	0.3	2.2	0.3	0.1	0.0	4.9	5.4	0.0	0.9	0.9	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.6	5.4	0.7	0.6	0.0	4.6	2.6	0.0	4.4	1.4	0.0	0.0
LnGrp Delay(d),s/veh	20.3	23.7	18.8	27.2	0.0	35.6	45.1	0.0	28.5	36.0	0.0	0.0
LnGrp LOS	C	C	B	C		D	D		C	D		
Approach Vol, veh/h		508			220			305			61	
Approach Delay, s/veh		22.0			34.5			34.0			36.0	
Approach LOS		C			C			C			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s		28.3	24.7	37.0	12.1	16.2	37.7	24.0
Change Period (Y+Rc), s		4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s		38.0	7.0	33.0	17.0	17.0	20.0	20.0
Max Q Clear Time (g_c+I1), s		12.0	3.3	12.8	7.3	12.1	9.9	10.9
Green Ext Time (p_c), s		1.1	0.3	1.0	0.8	0.0	0.5	0.4

Intersection Summary		
HCM 2010 Ctrl Delay		28.6
HCM 2010 LOS		C

Intersection	
Int Delay, s/veh	7.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	144	190	35	5	123	17	9	71	35	4	56	38
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	136	-	-	135	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	30	30	30	30	30	30	14	14	14	14	14	14
Mvmt Flow	157	207	38	5	134	18	10	77	38	4	61	41

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	152	0	0	245	0	0	744	702	226	750	712	143
Stage 1	-	-	-	-	-	-	539	539	-	154	154	-
Stage 2	-	-	-	-	-	-	205	163	-	596	558	-
Critical Hdwy	4.4	-	-	4.4	-	-	7.24	6.64	6.34	7.24	6.64	6.34
Critical Hdwy Stg 1	-	-	-	-	-	-	6.24	5.64	-	6.24	5.64	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.24	5.64	-	6.24	5.64	-
Follow-up Hdwy	2.47	-	-	2.47	-	-	3.626	4.126	3.426	3.626	4.126	3.426
Pot Cap-1 Maneuver	1275	-	-	1174	-	-	316	348	784	313	343	874
Stage 1	-	-	-	-	-	-	505	503	-	821	748	-
Stage 2	-	-	-	-	-	-	770	741	-	470	493	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1275	-	-	1174	-	-	230	304	784	217	299	874
Mov Cap-2 Maneuver	-	-	-	-	-	-	230	304	-	217	299	-
Stage 1	-	-	-	-	-	-	443	441	-	720	745	-
Stage 2	-	-	-	-	-	-	671	738	-	324	432	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	3.2	0.3	20.1	17.5
HCM LOS			C	C

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	362	1275	-	-	1174	-	-	393
HCM Lane V/C Ratio	0.345	0.123	-	-	0.005	-	-	0.271
HCM Control Delay (s)	20.1	8.2	-	-	8.1	-	-	17.5
HCM Lane LOS	C	A	-	-	A	-	-	C
HCM 95th %tile Q(veh)	1.5	0.4	-	-	0	-	-	1.1

Intersection	
Int Delay, s/veh	3.6

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	80	103	21	192	73	96
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	30	30	30	30	30	30
Mvmt Flow	87	112	23	209	79	104

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	199	0	397	143
Stage 1	-	-	-	-	143	-
Stage 2	-	-	-	-	254	-
Critical Hdwy	-	-	4.4	-	6.7	6.5
Critical Hdwy Stg 1	-	-	-	-	5.7	-
Critical Hdwy Stg 2	-	-	-	-	5.7	-
Follow-up Hdwy	-	-	2.47	-	3.77	3.57
Pot Cap-1 Maneuver	-	-	1223	-	557	835
Stage 1	-	-	-	-	820	-
Stage 2	-	-	-	-	727	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1223	-	545	835
Mov Cap-2 Maneuver	-	-	-	-	545	-
Stage 1	-	-	-	-	820	-
Stage 2	-	-	-	-	712	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0.8	11.1
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	NBLn2	EBT	EBR	WBL	WBT
Capacity (veh/h)	545	835	-	-	1223	-
HCM Lane V/C Ratio	0.146	0.125	-	-	0.019	-
HCM Control Delay (s)	12.7	9.9	-	-	8	0
HCM Lane LOS	B	A	-	-	A	A
HCM 95th %tile Q(veh)	0.5	0.4	-	-	0.1	-

Intersection	
Int Delay, s/veh	1.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	4	7	11	12	4	0	27	241	43	0	150	13
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	220	-	-	238	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	20	20	20	20	20	20
Mvmt Flow	4	8	12	13	4	0	29	262	47	0	163	14

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	516	537	170	524	521	285	177	0	0	309	0	0
Stage 1	170	170	-	344	344	-	-	-	-	-	-	-
Stage 2	346	367	-	180	177	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.2	6.6	6.3	4.3	-	-	4.3	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.59	4.09	3.39	2.38	-	-	2.38	-	-
Pot Cap-1 Maneuver	457	439	853	451	449	735	1297	-	-	1156	-	-
Stage 1	813	743	-	655	623	-	-	-	-	-	-	-
Stage 2	653	608	-	803	738	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	446	429	853	431	439	735	1297	-	-	1156	-	-
Mov Cap-2 Maneuver	446	429	-	431	439	-	-	-	-	-	-	-
Stage 1	795	743	-	640	609	-	-	-	-	-	-	-
Stage 2	634	594	-	784	738	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	11.5	13.7	0.7	0
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1297	-	-	576	433	1156	-	-
HCM Lane V/C Ratio	0.023	-	-	0.042	0.04	-	-	-
HCM Control Delay (s)	7.8	-	-	11.5	13.7	0	-	-
HCM Lane LOS	A	-	-	B	B	A	-	-
HCM 95th %tile Q(veh)	0.1	-	-	0.1	0.1	0	-	-

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	2	69	91	31	108	5	180	196	48	84	263	32
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1727	1900	1900	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	2	75	99	34	117	5	196	213	52	91	286	35
Adj No. of Lanes	0	1	0	0	1	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	41	97	125	82	184	7	235	294	70	1009	1715	208
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.11	0.11	0.61	0.58	0.58
Ln Grp Delay, s/veh	40.3	0.0	0.0	38.5	0.0	0.0	45.0	59.7	62.2	7.2	9.1	9.1
Ln Grp LOS	D			D			D	E	E	A	A	A
Approach Vol, veh/h		176			156			461			412	
Approach Delay, s/veh		40.3			38.5			54.2			8.7	
Approach LOS		D			D			D			A	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1		4	5	6		8
Case No	4.0	2.0		8.0	2.0	4.0		8.0
Phs Duration (G+Y+Rc), s	14.1	59.2		16.7	16.9	56.4		16.7
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green (Gmax), s	33.0	19.0		26.0	28.0	24.0		26.0
Max Allow Headway (MAH), s	4.1	4.1		4.2	4.1	4.1		4.2
Max Q Clear (g_c+I1), s	9.2	4.0		11.7	12.4	6.1		10.3
Green Ext Time (g_e), s	0.9	1.2		1.0	0.5	1.3		1.0
Prob of Phs Call (p_c)	1.00	0.90		1.00	0.99	1.00		1.00
Prob of Max Out (p_x)	0.00	0.01		0.01	0.00	0.00		0.00

Left-Turn Movement Data								
Assigned Mvmt		1		7	5			3
Mvmt Sat Flow, veh/h		1645		5	1645			232

Through Movement Data								
Assigned Mvmt	2			4		6		8
Mvmt Sat Flow, veh/h	2629			682		2948		1301

Right-Turn Movement Data								
Assigned Mvmt	12			14		16		18
Mvmt Sat Flow, veh/h	628			883		357		51

Left Lane Group Data								
Assigned Mvmt	0	1	0	7	5	0	0	3
Lane Assignment		(Prot)		L+T+R	(Prot)			L+T+R
Lanes in Grp	0	1	0	1	1	0	0	1

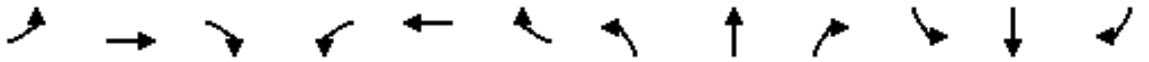
Grp Vol (v), veh/h	0	91	0	176	196	0	0	156
Grp Sat Flow (s), veh/h/ln	0	1645	0	1569	1645	0	0	1583
Q Serve Time (g_s), s	0.0	2.0	0.0	0.6	10.4	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	2.0	0.0	9.7	10.4	0.0	0.0	8.3
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	1289	0	0	0	1230
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	1726	0	0	0	1519
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	12.7	0.0	0.0	0.0	12.7
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	4.5	0.0	0.0	0.0	3.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	9.2	0.0	0.0	0.0	3.9
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	9.2	0.0	0.0	0.0	3.9
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	0.01	1.00	0.00	0.00	0.22
Lane Grp Cap (c), veh/h	0	1009	0	263	235	0	0	273
V/C Ratio (X)	0.00	0.09	0.00	0.67	0.83	0.00	0.00	0.57
Avail Cap (c_a), veh/h	0	1009	0	493	512	0	0	499
Upstream Filter (I)	0.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	7.1	0.0	37.3	37.5	0.0	0.0	36.6
Incr Delay (d2), s/veh	0.0	0.0	0.0	2.9	7.5	0.0	0.0	1.9
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	7.2	0.0	40.3	45.0	0.0	0.0	38.5
1st-Term Q (Q1), veh/ln	0.0	0.9	0.0	4.2	4.7	0.0	0.0	3.7
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.2	0.5	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.9	0.0	4.4	5.2	0.0	0.0	3.8
%ile Storage Ratio (RQ%)	0.00	0.10	0.00	0.01	0.78	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	0	6	0	8
Lane Assignment	T					T		
Lanes in Grp	1	0	0	0	0	1	0	0
Grp Vol (v), veh/h	131	0	0	0	0	158	0	0
Grp Sat Flow (s), veh/h/ln	1641	0	0	0	0	1641	0	0
Q Serve Time (g_s), s	6.9	0.0	0.0	0.0	0.0	4.0	0.0	0.0
Cycle Q Clear Time (g_c), s	6.9	0.0	0.0	0.0	0.0	4.0	0.0	0.0
Lane Grp Cap (c), veh/h	184	0	0	0	0	955	0	0
V/C Ratio (X)	0.71	0.00	0.00	0.00	0.00	0.17	0.00	0.00
Avail Cap (c_a), veh/h	602	0	0	0	0	955	0	0
Upstream Filter (I)	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d1), s/veh	38.6	0.0	0.0	0.0	0.0	8.7	0.0	0.0
Incr Delay (d2), s/veh	21.1	0.0	0.0	0.0	0.0	0.4	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	59.7	0.0	0.0	0.0	0.0	9.1	0.0	0.0
1st-Term Q (Q1), veh/ln	3.1	0.0	0.0	0.0	0.0	1.8	0.0	0.0
2nd-Term Q (Q2), veh/ln	1.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	4.2	0.0	0.0	0.0	0.0	1.9	0.0	0.0
%ile Storage Ratio (RQ%)	0.04	0.00	0.00	0.00	0.00	0.05	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	0	14	0	16	0	18
Lane Assignment	T+R					T+R		
Lanes in Grp	1	0	0	0	0	1	0	0
Grp Vol (v), veh/h	134	0	0	0	0	163	0	0
Grp Sat Flow (s), veh/h/ln	1616	0	0	0	0	1664	0	0
Q Serve Time (g_s), s	7.2	0.0	0.0	0.0	0.0	4.1	0.0	0.0
Cycle Q Clear Time (g_c), s	7.2	0.0	0.0	0.0	0.0	4.1	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.39	0.00	0.00	0.56	0.00	0.21	0.00	0.03
Lane Grp Cap (c), veh/h	181	0	0	0	0	968	0	0
V/C Ratio (X)	0.74	0.00	0.00	0.00	0.00	0.17	0.00	0.00
Avail Cap (c_a), veh/h	593	0	0	0	0	968	0	0
Upstream Filter (I)	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d1), s/veh	38.7	0.0	0.0	0.0	0.0	8.7	0.0	0.0
Incr Delay (d2), s/veh	23.5	0.0	0.0	0.0	0.0	0.4	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	62.2	0.0	0.0	0.0	0.0	9.1	0.0	0.0
1st-Term Q (Q1), veh/ln	3.2	0.0	0.0	0.0	0.0	1.9	0.0	0.0
2nd-Term Q (Q2), veh/ln	1.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	4.4	0.0	0.0	0.0	0.0	2.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.04	0.00	0.00	0.00	0.00	0.05	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	34.5
HCM 2010 LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	2	69	91	31	108	5	180	196	48	84	263	32
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1727	1900	1900	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	2	75	99	34	117	5	196	213	52	91	286	35
Adj No. of Lanes	0	1	0	0	1	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	41	97	125	82	184	7	235	294	70	1009	1715	208
Arrive On Green	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.11	0.11	0.61	0.58	0.58
Sat Flow, veh/h	5	682	883	232	1301	51	1645	2629	628	1645	2948	357
Grp Volume(v), veh/h	176	0	0	156	0	0	196	131	134	91	158	163
Grp Sat Flow(s),veh/h/ln	1569	0	0	1583	0	0	1645	1641	1616	1645	1641	1664
Q Serve(g_s), s	0.6	0.0	0.0	0.0	0.0	0.0	10.4	6.9	7.2	2.0	4.0	4.1
Cycle Q Clear(g_c), s	9.7	0.0	0.0	8.3	0.0	0.0	10.4	6.9	7.2	2.0	4.0	4.1
Prop In Lane	0.01		0.56	0.22		0.03	1.00		0.39	1.00		0.21
Lane Grp Cap(c), veh/h	263	0	0	273	0	0	235	184	181	1009	955	968
V/C Ratio(X)	0.67	0.00	0.00	0.57	0.00	0.00	0.83	0.71	0.74	0.09	0.17	0.17
Avail Cap(c_a), veh/h	493	0	0	499	0	0	512	602	593	1009	955	968
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	37.3	0.0	0.0	36.6	0.0	0.0	37.5	38.6	38.7	7.1	8.7	8.7
Incr Delay (d2), s/veh	2.9	0.0	0.0	1.9	0.0	0.0	7.5	21.1	23.5	0.0	0.4	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.4	0.0	0.0	3.8	0.0	0.0	5.2	4.2	4.4	0.9	1.9	2.0
LnGrp Delay(d),s/veh	40.3	0.0	0.0	38.5	0.0	0.0	45.0	59.7	62.2	7.2	9.1	9.1
LnGrp LOS	D			D			D	E	E	A	A	A
Approach Vol, veh/h		176			156			461			412	
Approach Delay, s/veh		40.3			38.5			54.2			8.7	
Approach LOS		D			D			D			A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	59.2	14.1		16.7	16.9	56.4		16.7
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	19.0	33.0		26.0	28.0	24.0		26.0
Max Q Clear Time (g_c+I1), s	4.0	9.2		11.7	12.4	6.1		10.3
Green Ext Time (p_c), s	1.2	0.9		1.0	0.5	1.3		1.0

Intersection Summary	
HCM 2010 Ctrl Delay	34.5
HCM 2010 LOS	C

Intersection	
Int Delay, s/veh	2.9

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	7	93	165	341	257	11
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	20	331	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	8	101	179	371	279	12

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1014	285	291	0	-	0
Stage 1	285	-	-	-	-	-
Stage 2	729	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	255	735	1226	-	-	-
Stage 1	745	-	-	-	-	-
Stage 2	463	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	218	735	1226	-	-	-
Mov Cap-2 Maneuver	218	-	-	-	-	-
Stage 1	745	-	-	-	-	-
Stage 2	395	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	11.5	2.8	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	1226	-	218	735	-	-
HCM Lane V/C Ratio	0.146	-	0.035	0.138	-	-
HCM Control Delay (s)	8.4	-	22.1	10.7	-	-
HCM Lane LOS	A	-	C	B	-	-
HCM 95th %tile Q(veh)	0.5	-	0.1	0.5	-	-

Intersection	
Int Delay, s/veh	7.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	0	92	29	8	36	0	206	0	81	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	0	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	30	30	30	30	30	30	30	30	30	30	30	30
Mvmt Flow	0	100	32	9	39	0	224	0	88	0	0	0

Major/Minor	Major1			Major2			Minor1		
Conflicting Flow All	39	0	0	132	0	0	173	173	116
Stage 1	-	-	-	-	-	-	116	116	-
Stage 2	-	-	-	-	-	-	57	57	-
Critical Hdwy	4.4	-	-	4.4	-	-	6.7	6.8	6.5
Critical Hdwy Stg 1	-	-	-	-	-	-	5.7	5.8	-
Critical Hdwy Stg 2	-	-	-	-	-	-	5.7	5.8	-
Follow-up Hdwy	2.47	-	-	2.47	-	-	3.77	4.27	3.57
Pot Cap-1 Maneuver	1408	-	-	1297	-	-	757	673	866
Stage 1	-	-	-	-	-	-	844	749	-
Stage 2	-	-	-	-	-	-	899	795	-
Platoon blocked, %		-	-		-	-			
Mov Cap-1 Maneuver	1408	-	-	1297	-	-	752	0	866
Mov Cap-2 Maneuver	-	-	-	-	-	-	752	0	-
Stage 1	-	-	-	-	-	-	844	0	-
Stage 2	-	-	-	-	-	-	893	0	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.4	11.2
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	NBLn2	EBL	EBT	EBR	WBL	WBT	WBR
Capacity (veh/h)	752	866	1408	-	-	1297	-	-
HCM Lane V/C Ratio	0.298	0.102	-	-	-	0.007	-	-
HCM Control Delay (s)	11.8	9.6	0	-	-	7.8	0	-
HCM Lane LOS	B	A	A	-	-	A	A	-
HCM 95th %tile Q(veh)	1.2	0.3	0	-	-	0	-	-

AM 2035 %Growth Only

Intersection	
Int Delay, s/veh	10

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	15	44	23	163	57	4	4	115	36	5	351	28
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	16	48	25	177	62	4	4	125	39	5	382	30

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	594	581	397	597	576	145	412	0	0	164	0	0
Stage 1	408	408	-	153	153	-	-	-	-	-	-	-
Stage 2	186	173	-	444	423	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.2	6.6	6.3	4.2	-	-	4.2	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.59	4.09	3.39	2.29	-	-	2.29	-	-
Pot Cap-1 Maneuver	405	414	635	403	417	881	1105	-	-	1367	-	-
Stage 1	605	583	-	831	756	-	-	-	-	-	-	-
Stage 2	798	741	-	578	574	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	354	410	635	350	413	881	1105	-	-	1367	-	-
Mov Cap-2 Maneuver	354	410	-	350	413	-	-	-	-	-	-	-
Stage 1	603	580	-	828	753	-	-	-	-	-	-	-
Stage 2	726	738	-	507	571	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	15.2	32	0.2	0.1
HCM LOS	C	D		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1105	-	-	441	368	1367	-	-
HCM Lane V/C Ratio	0.004	-	-	0.202	0.662	0.004	-	-
HCM Control Delay (s)	8.3	0	-	15.2	32	7.6	0	-
HCM Lane LOS	A	A	-	C	D	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.7	4.5	0	-	-

Intersection	
Intersection Delay, s/veh	9.1
Intersection LOS	A

Movement	EBU	EBL	EBT	WBU	WBT	WBR	SBU	SBL	SBR
Vol, veh/h	0	41	50	0	126	71	0	105	133
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	45	54	0	137	77	0	114	145
Number of Lanes	0	1	1	0	1	1	0	1	1

Approach	EB	WB	SB
Opposing Approach	WB	EB	
Opposing Lanes	2	2	0
Conflicting Approach Left	SB		WB
Conflicting Lanes Left	2	0	2
Conflicting Approach Right		SB	EB
Conflicting Lanes Right	0	2	2
HCM Control Delay	9	9	9.3
HCM LOS	A	A	A

Lane	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1	SBLn2
Vol Left, %	100%	0%	0%	0%	100%	0%
Vol Thru, %	0%	100%	100%	0%	0%	0%
Vol Right, %	0%	0%	0%	100%	0%	100%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	41	50	126	71	105	133
LT Vol	41	0	0	0	105	0
Through Vol	0	50	126	0	0	0
RT Vol	0	0	0	71	0	133
Lane Flow Rate	45	54	137	77	114	145
Geometry Grp	7	7	7	7	7	7
Degree of Util (X)	0.075	0.084	0.208	0.102	0.189	0.191
Departure Headway (Hd)	6.072	5.567	5.457	4.752	5.964	4.759
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	589	642	656	752	601	752
Service Time	3.823	3.318	3.2	2.495	3.707	2.502
HCM Lane V/C Ratio	0.076	0.084	0.209	0.102	0.19	0.193
HCM Control Delay	9.3	8.8	9.6	8	10.1	8.6
HCM Lane LOS	A	A	A	A	B	A
HCM 95th-tile Q	0.2	0.3	0.8	0.3	0.7	0.7

Intersection	
Intersection Delay, s/veh	9
Intersection LOS	A

Movement	EBU	EBL	EBR	NBU	NBL	NBT	SBU	SBT	SBR	SEU	SEL	SER
Vol, veh/h	0	0	0	0	0	20	0	43	247	0	0	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	0	0	0	0	22	0	47	268	0	0	0
Number of Lanes	0	0	0	0	1	0	0	0	1	0	0	1

Approach	NB	SB	SE
Opposing Approach	SB	NB	
Opposing Lanes	2	1	0
Conflicting Approach Left	SE		SB
Conflicting Lanes Left	1	0	2
Conflicting Approach Right		SE	NB
Conflicting Lanes Right	0	1	1
HCM Control Delay	8	9.1	0
HCM LOS	A	A	-

Lane	NBLn1	SELn1	SBLn1	SBLn2
Vol Left, %	0%	0%	0%	0%
Vol Thru, %	100%	100%	15%	100%
Vol Right, %	0%	0%	85%	0%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	20	0	290	0
LT Vol	0	0	0	0
Through Vol	20	0	43	0
RT Vol	0	0	247	0
Lane Flow Rate	22	0	315	0
Geometry Grp	5	2	7	7
Degree of Util (X)	0.029	0	0.36	0
Departure Headway (Hd)	4.879	4.81	4.111	4.708
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	738	0	876	0
Service Time	2.879	2.81	1.831	2.427
HCM Lane V/C Ratio	0.03	0	0.36	0
HCM Control Delay	8	7.8	9.1	7.4
HCM Lane LOS	A	N	A	N
HCM 95th-tile Q	0.1	0	1.6	0

Intersection	
Int Delay, s/veh	19.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	5	29	3	2	32	27	0	0	0	123	35	548
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	116	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	29	29	29	29	29	29	10	10	10	10	10	10
Mvmt Flow	5	32	3	2	35	29	0	0	0	134	38	596

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	64	0	0	35	0	0	415	112	33	98	100	49
Stage 1	-	-	-	-	-	-	44	44	-	54	54	-
Stage 2	-	-	-	-	-	-	371	68	-	44	46	-
Critical Hdwy	4.39	-	-	4.39	-	-	7.2	6.6	6.3	7.2	6.6	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Follow-up Hdwy	2.461	-	-	2.461	-	-	3.59	4.09	3.39	3.59	4.09	3.39
Pot Cap-1 Maneuver	1383	-	-	1419	-	-	534	763	1018	865	775	997
Stage 1	-	-	-	-	-	-	950	843	-	939	834	-
Stage 2	-	-	-	-	-	-	633	823	-	950	841	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1383	-	-	1419	-	-	206	759	1018	862	771	997
Mov Cap-2 Maneuver	-	-	-	-	-	-	206	759	-	862	771	-
Stage 1	-	-	-	-	-	-	947	840	-	936	833	-
Stage 2	-	-	-	-	-	-	243	822	-	947	838	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	1	0.2	0	22
HCM LOS			A	C

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	-	1383	-	-	1419	-	-	957
HCM Lane V/C Ratio	-	0.004	-	-	0.002	-	-	0.802
HCM Control Delay (s)	0	7.6	-	-	7.5	0	-	22
HCM Lane LOS	A	A	-	-	A	A	-	C
HCM 95th %tile Q(veh)	-	0	-	-	0	-	-	8.8

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	0	0	0	0	37	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	29	29	10	10	10	10
Mvmt Flow	0	0	0	0	40	0

Major/Minor	Major1		Minor2	
Conflicting Flow All	0	0	0	0
Stage 1	-	-	0	-
Stage 2	-	-	0	-
Critical Hdwy	-	-	7.2	-
Critical Hdwy Stg 1	-	-	-	-
Critical Hdwy Stg 2	-	-	6.2	-
Follow-up Hdwy	-	-	3.59	-
Pot Cap-1 Maneuver	-	-	-	-
Stage 1	-	-	-	-
Stage 2	-	-	-	-
Platoon blocked, %		-		
Mov Cap-1 Maneuver	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-
Stage 1	-	-	-	-
Stage 2	-	-	-	-

Approach	EB	SB
HCM Control Delay, s	0	
HCM LOS		-

Minor Lane/Major Mvmt	EBL	EBT	SBLn1
Capacity (veh/h)	-	-	-
HCM Lane V/C Ratio	-	-	-
HCM Control Delay (s)	0	-	-
HCM Lane LOS	A	-	-
HCM 95th %tile Q(veh)	-	-	-

Intersection	
Int Delay, s/veh	10

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	101	78	293	14	39	346
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	500	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	29	29	29	29	10	10
Mvmt Flow	110	85	318	15	42	376

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	334	0	-	0	630	326
Stage 1	-	-	-	-	326	-
Stage 2	-	-	-	-	304	-
Critical Hdwy	4.39	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.461	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1089	-	-	-	433	697
Stage 1	-	-	-	-	714	-
Stage 2	-	-	-	-	731	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1089	-	-	-	389	697
Mov Cap-2 Maneuver	-	-	-	-	389	-
Stage 1	-	-	-	-	714	-
Stage 2	-	-	-	-	657	-

Approach	EB	WB	SB
HCM Control Delay, s	4.9	0	20.3
HCM LOS			C

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1089	-	-	-	645
HCM Lane V/C Ratio	0.101	-	-	-	0.649
HCM Control Delay (s)	8.7	-	-	-	20.3
HCM Lane LOS	A	-	-	-	C
HCM 95th %tile Q(veh)	0.3	-	-	-	4.7

Intersection	
Int Delay, s/veh	0.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NWL	NWR
Vol, veh/h	0	44	37	0	573	0	9	8	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	None	-	-
Storage Length	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	0	-	0	-
Grade, %	-	0	-	-	0	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	29	29	29	29	29	29	28	28	10	10
Mvmt Flow	0	48	40	0	623	0	10	9	0	0

Major/Minor	Major1			Major2			Minor2			
Conflicting Flow All	623	0	0	88	0	0	691	623		
Stage 1	-	-	-	-	-	-	623	-		
Stage 2	-	-	-	-	-	-	68	-		
Critical Hdwy	4.39	-	-	4.39	-	-	6.68	6.48		
Critical Hdwy Stg 1	-	-	-	-	-	-	5.68	-		
Critical Hdwy Stg 2	-	-	-	-	-	-	5.68	-		
Follow-up Hdwy	2.461	-	-	2.461	-	-	3.752	3.552		
Pot Cap-1 Maneuver	840	-	-	1354	-	-	373	442		
Stage 1	-	-	-	-	-	-	488	-		
Stage 2	-	-	-	-	-	-	893	-		
Platoon blocked, %		-	-		-	-				
Mov Cap-1 Maneuver	840	-	-	1354	-	-	373	442		
Mov Cap-2 Maneuver	-	-	-	-	-	-	373	-		
Stage 1	-	-	-	-	-	-	488	-		
Stage 2	-	-	-	-	-	-	893	-		

Approach	EB	WB	SB
HCM Control Delay, s	0	0	13.5
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	840	-	-	1354	-	-	442
HCM Lane V/C Ratio	-	-	-	-	-	-	0.042
HCM Control Delay (s)	0	-	-	0	-	-	13.5
HCM Lane LOS	A	-	-	A	-	-	B
HCM 95th %tile Q(veh)	0	-	-	0	-	-	0.1

Intersection	
Int Delay, s/veh	0.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBR	SEL	SER
Vol, veh/h	7	54	0	0	490	7	67	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	None	-	-
Storage Length	-	-	-	-	-	0	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	0	-	0	-
Grade, %	-	0	-	-	0	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	29	29	29	29	29	29	28	28	10	10
Mvmt Flow	8	59	0	0	533	8	73	0	0	0

Major/Minor	Major1			Major2			Minor1			
Conflicting Flow All	533	0	0	59	0	0	607	59		
Stage 1	-	-	-	-	-	-	74	-		
Stage 2	-	-	-	-	-	-	533	-		
Critical Hdwy	4.39	-	-	4.39	-	-	6.68	6.48		
Critical Hdwy Stg 1	-	-	-	-	-	-	5.68	-		
Critical Hdwy Stg 2	-	-	-	-	-	-	5.68	-		
Follow-up Hdwy	2.461	-	-	2.461	-	-	3.752	3.552		
Pot Cap-1 Maneuver	911	-	-	1389	-	-	420	938		
Stage 1	-	-	-	-	-	-	887	-		
Stage 2	-	-	-	-	-	-	539	-		
Platoon blocked, %		-	-		-	-				
Mov Cap-1 Maneuver	911	-	-	1389	-	-	416	938		
Mov Cap-2 Maneuver	-	-	-	-	-	-	416	-		
Stage 1	-	-	-	-	-	-	879	-		
Stage 2	-	-	-	-	-	-	539	-		

Approach	EB	WB	NB
HCM Control Delay, s	1	0	
HCM LOS			-

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR
Capacity (veh/h)	-	911	-	-	1389	-	-
HCM Lane V/C Ratio	-	0.008	-	-	-	-	-
HCM Control Delay (s)	-	9	0	-	0	-	-
HCM Lane LOS	-	A	A	-	A	-	-
HCM 95th %tile Q(veh)	-	0	-	-	0	-	-

Intersection	
Int Delay, s/veh	3.2

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	8	103	224	464	349	15
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	0	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	19	19	19	19
Mvmt Flow	9	112	243	504	379	16

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1379	388	396	0	-	0
Stage 1	388	-	-	-	-	-
Stage 2	991	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.29	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.371	-	-	-
Pot Cap-1 Maneuver	153	643	1076	-	-	-
Stage 1	668	-	-	-	-	-
Stage 2	347	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	118	643	1076	-	-	-
Mov Cap-2 Maneuver	118	-	-	-	-	-
Stage 1	668	-	-	-	-	-
Stage 2	269	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	14.8	3	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1076	-	487	-	-
HCM Lane V/C Ratio	0.226	-	0.248	-	-
HCM Control Delay (s)	9.3	-	14.8	-	-
HCM Lane LOS	A	-	B	-	-
HCM 95th %tile Q(veh)	0.9	-	1	-	-

Intersection	
Intersection Delay, s/veh	58.3
Intersection LOS	F

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	24	123	53	0	115	475	75	0	116	169	185
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	26	134	58	0	125	516	82	0	126	184	201
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	1	1	2
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	2	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	2	1
HCM Control Delay	23.3	72.4	72.1
HCM LOS	C	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1	SBLn2
Vol Left, %	25%	12%	17%	23%	0%
Vol Thru, %	36%	61%	71%	77%	0%
Vol Right, %	39%	27%	11%	0%	100%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	470	200	665	301	82
LT Vol	116	24	115	68	0
Through Vol	169	123	475	233	0
RT Vol	185	53	75	0	82
Lane Flow Rate	511	217	723	327	89
Geometry Grp	5	2	2	7	7
Degree of Util (X)	1	0.558	1	0.813	0.201
Departure Headway (Hd)	8.22	9.239	8.274	9.052	8.239
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	444	393	448	402	439
Service Time	6.235	7.239	6.288	6.752	5.939
HCM Lane V/C Ratio	1.151	0.552	1.614	0.813	0.203
HCM Control Delay	72.1	23.3	72.4	41	13
HCM Lane LOS	F	C	F	E	B
HCM 95th-tile Q	12.8	3.3	12.8	7.3	0.7

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	68	233	82
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10
Mvmt Flow	0	74	253	89
Number of Lanes	0	0	1	1

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	1
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	35
HCM LOS	D

Lane

Intersection	
Intersection Delay, s/veh	52.4
Intersection LOS	F

Movement	EBU	EBL	EBR	NBU	NBL	NBT	SBU	SBT	SBR
Vol, veh/h	0	52	112	0	556	165	0	394	314
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	22	22	10	25	25	10	25	25
Mvmt Flow	0	57	122	0	604	179	0	428	341
Number of Lanes	0	1	1	0	1	1	0	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	1	2
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	1	2	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	2	0	2
HCM Control Delay	12.4	52.8	61.3
HCM LOS	B	F	F

Lane	NBLn1	NBLn2	EBLn1	EBLn2	SBLn1
Vol Left, %	100%	0%	100%	0%	0%
Vol Thru, %	0%	100%	0%	0%	56%
Vol Right, %	0%	0%	0%	100%	44%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	556	165	52	112	708
LT Vol	556	0	52	0	0
Through Vol	0	165	0	0	394
RT Vol	0	0	0	112	314
Lane Flow Rate	604	179	57	122	770
Geometry Grp	7	7	7	7	4
Degree of Util (X)	1	0.311	0.134	0.248	1
Departure Headway (Hd)	6.737	6.237	8.524	7.325	5.969
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	538	570	423	493	608
Service Time	4.535	4.035	6.229	5.03	4.055
HCM Lane V/C Ratio	1.123	0.314	0.135	0.247	1.266
HCM Control Delay	65	11.9	12.5	12.4	61.3
HCM Lane LOS	F	B	B	B	F
HCM 95th-tile Q	14.1	1.3	0.5	1	14.9

Intersection	
Intersection Delay, s/veh	58.8
Intersection LOS	F

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Vol, veh/h	0	13	81	12	0	277	615	62	0	0	186	52	0	19	520	79
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	22	22	22	10	22	22	22
Mvmt Flow	0	14	88	13	0	301	668	67	0	0	202	57	0	21	565	86
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	14.8	67.2	21	67.8
HCM LOS	B	F	C	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	12%	29%	3%
Vol Thru, %	78%	76%	64%	84%
Vol Right, %	22%	11%	6%	13%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	238	106	954	618
LT Vol	0	13	277	19
Through Vol	186	81	615	520
RT Vol	52	12	62	79
Lane Flow Rate	259	115	1037	672
Geometry Grp	1	1	1	1
Degree of Util (X)	0.571	0.275	1	1
Departure Headway (Hd)	7.94	8.583	7.192	7.307
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	455	419	518	504
Service Time	5.955	6.609	5.22	5.335
HCM Lane V/C Ratio	0.569	0.274	2.002	1.333
HCM Control Delay	21	14.8	67.2	67.8
HCM Lane LOS	C	B	F	F
HCM 95th-tile Q	3.5	1.1	13.7	13.6

Intersection	
Int Delay, s/veh	130.4

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	351	71	213	36	23	748
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	22	22	22	22
Mvmt Flow	382	77	232	39	25	813

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1114	251	0	0	271	0
Stage 1	251	-	-	-	-	-
Stage 2	863	-	-	-	-	-
Critical Hdwy	6.5	6.3	-	-	4.32	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	-	-	2.398	-
Pot Cap-1 Maneuver	~ 222	769	-	-	1185	-
Stage 1	772	-	-	-	-	-
Stage 2	400	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	~ 214	769	-	-	1185	-
Mov Cap-2 Maneuver	~ 214	-	-	-	-	-
Stage 1	772	-	-	-	-	-
Stage 2	385	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	$ 445.1	0	0.2
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	244	1185	-
HCM Lane V/C Ratio	-	-	1.88	0.021	-
HCM Control Delay (s)	-	-	$ 445.1	8.1	0
HCM Lane LOS	-	-	F	A	A
HCM 95th %tile Q(veh)	-	-	32.2	0.1	-

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	207	216	8	52	1028	0	83	14	8	1	128	809
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	225	235	9	57	1117	0	90	15	9	1	139	879
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	80	900	34	572	940	0	80	371	223	538	75	475
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.54	0.54	0.54	0.54	0.54	0.00	0.37	0.37	0.37	0.37	0.37	0.37
Ln Grp Delay, s/veh	894.2	0.0	11.0	13.5	115.7	0.0	183.5	0.0	18.4	18.6	0.0	419.0
Ln Grp LOS	F		B	B	F		F		B	B		F
Approach Vol, veh/h		469			1174			114			1019	
Approach Delay, s/veh		434.7			110.8			148.8			418.6	
Approach LOS		F			F			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Case No		6.0		6.0		6.0		6.0
Phs Duration (G+Y+Rc), s		37.0		53.0		37.0		53.0
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green (Gmax), s		33.0		49.0		33.0		49.0
Max Allow Headway (MAH), s		4.6		4.6		4.6		4.6
Max Q Clear (g_c+I1), s		35.0		51.0		35.0		51.0
Green Ext Time (g_e), s		0.0		0.0		0.0		0.0
Prob of Phs Call (p_c)		1.00		1.00		1.00		1.00
Prob of Max Out (p_x)		1.00		1.00		1.00		1.00

Left-Turn Movement Data								
Assigned Mvmt		5		7		1		3
Mvmt Sat Flow, veh/h		511		466		1281		1049

Through Movement Data								
Assigned Mvmt		2		4		6		8
Mvmt Sat Flow, veh/h		1013		1653		205		1727

Right-Turn Movement Data								
Assigned Mvmt		12		14		16		18
Mvmt Sat Flow, veh/h		608		63		1294		0

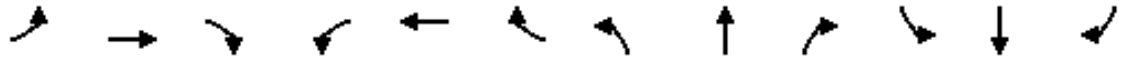
Left Lane Group Data								
Assigned Mvmt	0	5	0	7	0	1	0	3
Lane Assignment								
Lanes in Grp	0	1	0	1	0	1	0	1

Grp Vol (v), veh/h	0	90	0	225	0	1	0	57
Grp Sat Flow (s), veh/h/ln	0	511	0	466	0	1281	0	1049
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
Cycle Q Clear Time (g_c), s	0.0	33.0	0.0	49.0	0.0	0.9	0.0	9.5
Perm LT Sat Flow (s_l), veh/h/ln	0	511	0	466	0	1281	0	1049
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	33.0	0.0	49.0	0.0	33.0	0.0	49.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	32.1	0.0	42.2
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	80	0	80	0	538	0	572
V/C Ratio (X)	0.00	1.12	0.00	2.81	0.00	0.00	0.00	0.10
Avail Cap (c_a), veh/h	0	80	0	80	0	538	0	572
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	45.0	0.0	45.0	0.0	18.6	0.0	13.4
Incr Delay (d2), s/veh	0.0	138.5	0.0	849.2	0.0	0.0	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	183.5	0.0	894.2	0.0	18.6	0.0	13.5
1st-Term Q (Q1), veh/ln	0.0	2.0	0.0	2.0	0.0	0.0	0.0	0.8
2nd-Term Q (Q2), veh/ln	0.0	3.1	0.0	18.9	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	5.1	0.0	20.8	0.0	0.0	0.0	0.8
%ile Storage Ratio (RQ%)	0.00	2.20	0.00	2.16	0.00	0.00	0.00	0.11
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	2.5	0.0	36.3	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.3	0.0	0.7	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	0	8
Lane Assignment								T
Lanes in Grp	0	0	0	0	0	0	0	1
Grp Vol (v), veh/h	0	0	0	0	0	0	0	1117
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	1727
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	940
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.19
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	940
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.5
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	95.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	115.7
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.9

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.9
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.1
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	0	18
Lane Assignment		T+R		T+R		T+R		
Lanes in Grp	0	1	0	1	0	1	0	0
Grp Vol (v), veh/h	0	24	0	244	0	1018	0	0
Grp Sat Flow (s), veh/h/ln	0	1620	0	1716	0	1499	0	0
Q Serve Time (g_s), s	0.0	0.9	0.0	6.8	0.0	33.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.9	0.0	6.8	0.0	33.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.38	0.00	0.04	0.00	0.86	0.00	0.00
Lane Grp Cap (c), veh/h	0	594	0	934	0	550	0	0
V/C Ratio (X)	0.00	0.04	0.00	0.26	0.00	1.85	0.00	0.00
Avail Cap (c_a), veh/h	0	594	0	934	0	550	0	0
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	18.3	0.0	10.9	0.0	28.5	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.1	0.0	0.1	0.0	390.5	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	18.4	0.0	11.0	0.0	419.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.4	0.0	3.2	0.0	13.6	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	59.6	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.4	0.0	3.2	0.0	73.2	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.01	0.00	0.23	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	117.1	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	280.1
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	207	216	8	52	1028	0	83	14	8	1	128	809
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	225	235	9	57	1117	0	90	15	9	1	139	879
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	80	900	34	572	940	0	80	371	223	538	75	475
Arrive On Green	0.54	0.54	0.54	0.54	0.54	0.00	0.37	0.37	0.37	0.37	0.37	0.37
Sat Flow, veh/h	466	1653	63	1049	1727	0	511	1013	608	1281	205	1294
Grp Volume(v), veh/h	225	0	244	57	1117	0	90	0	24	1	0	1018
Grp Sat Flow(s),veh/h/ln	466	0	1716	1049	1727	0	511	0	1620	1281	0	1499
Q Serve(g_s), s	0.0	0.0	6.8	2.7	49.0	0.0	0.0	0.0	0.9	0.0	0.0	33.0
Cycle Q Clear(g_c), s	49.0	0.0	6.8	9.5	49.0	0.0	33.0	0.0	0.9	0.9	0.0	33.0
Prop In Lane	1.00		0.04	1.00		0.00	1.00		0.38	1.00		0.86
Lane Grp Cap(c), veh/h	80	0	934	572	940	0	80	0	594	538	0	550
V/C Ratio(X)	2.81	0.00	0.26	0.10	1.19	0.00	1.12	0.00	0.04	0.00	0.00	1.85
Avail Cap(c_a), veh/h	80	0	934	572	940	0	80	0	594	538	0	550
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	45.0	0.0	10.9	13.4	20.5	0.0	45.0	0.0	18.3	18.6	0.0	28.5
Incr Delay (d2), s/veh	849.2	0.0	0.1	0.1	95.2	0.0	138.5	0.0	0.1	0.0	0.0	390.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	20.8	0.0	3.2	0.8	47.9	0.0	5.1	0.0	0.4	0.0	0.0	73.2
LnGrp Delay(d),s/veh	894.2	0.0	11.0	13.5	115.7	0.0	183.5	0.0	18.4	18.6	0.0	419.0
LnGrp LOS	F		B	B	F		F		B	B		F
Approach Vol, veh/h		469			1174			114			1019	
Approach Delay, s/veh		434.7			110.8			148.8			418.6	
Approach LOS		F			F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Phs Duration (G+Y+Rc), s		37.0		53.0		37.0		53.0
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green Setting (Gmax), s		33.0		49.0		33.0		49.0
Max Q Clear Time (g_c+I1), s		35.0		51.0		35.0		51.0
Green Ext Time (p_c), s		0.0		0.0		0.0		0.0

Intersection Summary		
HCM 2010 Ctrl Delay		280.1
HCM 2010 LOS		F

Intersection	
Intersection Delay, s/veh	43.8
Intersection LOS	E

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Vol, veh/h	0	15	14	22	0	230	27	493	0	21	216	35	0	103	327	3
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	16	15	24	0	250	29	536	0	23	235	38	0	112	355	3
Number of Lanes	0	0	1	0	0	0	1	1	0	0	1	0	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	2	1
HCM Control Delay	12.8	50.5	21.2	50.1
HCM LOS	B	F	C	F

Lane	NBLn1	EBLn1	WBLn1	WBLn2	SBLn1
Vol Left, %	8%	29%	89%	0%	24%
Vol Thru, %	79%	27%	11%	0%	76%
Vol Right, %	13%	43%	0%	100%	1%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	272	51	257	493	433
LT Vol	21	15	230	0	103
Through Vol	216	14	27	0	327
RT Vol	35	22	0	493	3
Lane Flow Rate	296	55	279	536	471
Geometry Grp	2	5	7	7	2
Degree of Util (X)	0.611	0.132	0.617	1	0.927
Departure Headway (Hd)	7.437	8.58	7.951	6.773	7.087
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	494	424	453	536	522
Service Time	5.348	6.504	5.706	4.526	5.008
HCM Lane V/C Ratio	0.599	0.13	0.616	1	0.902
HCM Control Delay	21.2	12.8	22.8	64.9	50.1
HCM Lane LOS	C	B	C	F	F
HCM 95th-tile Q	4	0.5	4.1	14.1	11.2

Movement	NBL	NBR	SET	SER	NWL	NWT
Lane Configurations						
Volume (veh/h)	116	4	0	0	0	0
Number	5	12	4	14	3	8
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1598	1598	1727	1727
Adj Flow Rate, veh/h	126	4	0	0	0	0
Adj No. of Lanes	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Opposing Right Turn Influence	Yes				Yes	
Cap, veh/h	160	143	2	2	1339	1406
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.10	0.10	0.00	0.00	0.00	0.00
Ln Grp Delay, s/veh	47.9	36.8	0.0	0.0	0.0	0.0
Ln Grp LOS	D	D				
Approach Vol, veh/h	130		0			0
Approach Delay, s/veh	47.6		0.0			0.0
Approach LOS	D					

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2	4	3				8
Case No		9.0	7.0	2.0				4.0
Phs Duration (G+Y+Rc), s		12.8	0.0	77.2				77.2
Change Period (Y+Rc), s		4.0	4.0	4.0				4.0
Max Green (Gmax), s		30.0	30.0	18.0				52.0
Max Allow Headway (MAH), s		4.1	0.0	0.0				0.0
Max Q Clear (g_c+I1), s		8.7	0.0	0.0				0.0
Green Ext Time (g_e), s		0.4	0.0	0.0				0.0
Prob of Phs Call (p_c)		0.96	0.00	0.00				0.00
Prob of Max Out (p_x)		0.00	0.00	0.00				0.00
Left-Turn Movement Data								
Assigned Mvmt		5	7	3				
Mvmt Sat Flow, veh/h		1645	0	1645				
Through Movement Data								
Assigned Mvmt		2	4					8
Mvmt Sat Flow, veh/h		0	-63909					1727
Right-Turn Movement Data								
Assigned Mvmt		12	14					18
Mvmt Sat Flow, veh/h		1468	1358					0
Left Lane Group Data								
Assigned Mvmt	0	5	7	3	0	0	0	0
Lane Assignment				(Prot)				
Lanes in Grp	0	1	0	1	0	0	0	0

Grp Vol (v), veh/h	0	126	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	1645	0	1645	0	0	0	0
Q Serve Time (g_s), s	0.0	6.7	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	6.7	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	1645	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	-4.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	160	0	1339	0	0	0	0
V/C Ratio (X)	0.00	0.79	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	548	0	1339	0	0	0	0
Upstream Filter (I)	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	39.7	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	8.2	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	47.9	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	0	0	0	8
Lane Assignment			T					T
Lanes in Grp	0	0	1	0	0	0	0	1
Grp Vol (v), veh/h	0	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	1598	0	0	0	0	1727
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	2	0	0	0	0	1406
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	533	0	0	0	0	1406
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

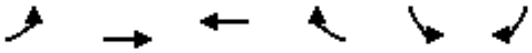
Right Lane Group Data								
Assigned Mvmt	0	12	14	0	0	0	0	18
Lane Assignment		R	R					
Lanes in Grp	0	1	1	0	0	0	0	0
Grp Vol (v), veh/h	0	4	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	1468	1358	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	143	2	0	0	0	0	0
V/C Ratio (X)	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	489	453	0	0	0	0	0
Upstream Filter (I)	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	36.8	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	36.8	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	47.6
HCM 2010 LOS	D

Movement	NBL	NBR	SET	SER	NWL	NWT
Lane Configurations						
Volume (veh/h)	116	4	0	0	0	0
Number	5	12	4	14	3	8
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1598	1598	1727	1727
Adj Flow Rate, veh/h	126	4	0	0	0	0
Adj No. of Lanes	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Cap, veh/h	160	143	2	2	1339	1406
Arrive On Green	0.10	0.10	0.00	0.00	0.00	0.00
Sat Flow, veh/h	1645	1468	-63909	1358	1645	1727
Grp Volume(v), veh/h	126	4	0	0	0	0
Grp Sat Flow(s),veh/h/ln	1645	1468	1598	1358	1645	1727
Q Serve(g_s), s	6.7	0.2	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	6.7	0.2	0.0	0.0	0.0	0.0
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	160	143	2	2	1339	1406
V/C Ratio(X)	0.79	0.03	0.00	0.00	0.00	0.00
Avail Cap(c_a), veh/h	548	489	533	453	1339	1406
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.99	0.99	0.00	0.00	0.00	0.00
Uniform Delay (d), s/veh	39.7	36.8	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	8.2	0.1	0.0	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.4	0.1	0.0	0.0	0.0	0.0
LnGrp Delay(d),s/veh	47.9	36.8	0.0	0.0	0.0	0.0
LnGrp LOS	D	D				
Approach Vol, veh/h	130		0			0
Approach Delay, s/veh	47.6		0.0			0.0
Approach LOS	D					

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4				8
Phs Duration (G+Y+Rc), s		12.8	77.2	0.0				77.2
Change Period (Y+Rc), s		4.0	4.0	4.0				4.0
Max Green Setting (Gmax), s		30.0	18.0	30.0				52.0
Max Q Clear Time (g_c+I1), s		8.7	0.0	0.0				0.0
Green Ext Time (p_c), s		0.4	0.0	0.0				0.0

Intersection Summary	
HCM 2010 Ctrl Delay	47.6
HCM 2010 LOS	D



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (veh/h)	0	350	642	161	150	29
Number	7	4	8	18	1	16
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00			1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	380	698	175	163	32
Adj No. of Lanes	1	2	2	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Opposing Right Turn Influence	Yes				Yes	
Cap, veh/h	544	2581	1349	604	205	183
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.00	0.79	0.41	0.41	0.12	0.12
Ln Grp Delay, s/veh	0.0	2.4	21.2	18.9	45.1	35.7
Ln Grp LOS		A	C	B	D	D
Approach Vol, veh/h		380	873		195	
Approach Delay, s/veh		2.4	20.7		43.6	
Approach LOS		A	C		D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	6			4			8	7
Case No	9.0			4.0			7.0	2.0
Phs Duration (G+Y+Rc), s	15.2			74.8			41.0	33.8
Change Period (Y+Rc), s	4.0			4.0			4.0	4.0
Max Green (Gmax), s	27.0			55.0			37.0	14.0
Max Allow Headway (MAH), s	4.1			4.0			4.1	0.0
Max Q Clear (g_c+I1), s	10.7			4.5			16.3	0.0
Green Ext Time (g_e), s	0.6			1.6			3.7	0.0
Prob of Phs Call (p_c)	1.00			1.00			1.00	0.00
Prob of Max Out (p_x)	0.00			0.00			0.00	0.00

Left-Turn Movement Data								
Assigned Mvmt	1						3	7
Mvmt Sat Flow, veh/h	1645						0	1645

Through Movement Data								
Assigned Mvmt	6			4			8	
Mvmt Sat Flow, veh/h	0			3368			3368	

Right-Turn Movement Data								
Assigned Mvmt	16			14			18	
Mvmt Sat Flow, veh/h	1468			0			1468	

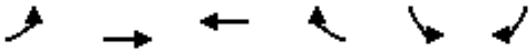
Left Lane Group Data								
Assigned Mvmt	1	0	0	0	0	0	3	7
Lane Assignment								(Prot)
Lanes in Grp	1	0	0	0	0	0	0	1

Grp Vol (v), veh/h	163	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	1645	0	0	0	0	0	0	1645
Q Serve Time (g_s), s	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	1645	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	37.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	205	0	0	0	0	0	0	544
V/C Ratio (X)	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	494	0	0	0	0	0	0	544
Upstream Filter (I)	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	38.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	45.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00
%ile Back of Q (50%), veh/ln	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	6	0	0	4	0	0	8	0
Lane Assignment				T			T	
Lanes in Grp	0	0	0	2	0	0	2	0
Grp Vol (v), veh/h	0	0	0	380	0	0	698	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1641	0	0	1641	0
Q Serve Time (g_s), s	0.0	0.0	0.0	2.5	0.0	0.0	14.3	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	2.5	0.0	0.0	14.3	0.0
Lane Grp Cap (c), veh/h	0	0	0	2581	0	0	1349	0
V/C Ratio (X)	0.00	0.00	0.00	0.15	0.00	0.00	0.52	0.00
Avail Cap (c_a), veh/h	0	0	0	2581	0	0	1349	0
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.00	0.96	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	2.3	0.0	0.0	19.8	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.1	0.0	0.0	1.4	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	2.4	0.0	0.0	21.2	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	1.1	0.0	0.0	6.5	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	1.2	0.0	0.0	6.8	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	16	0	0	14	0	0	18	0
Lane Assignment	R						R	
Lanes in Grp	1	0	0	0	0	0	1	0
Grp Vol (v), veh/h	32	0	0	0	0	0	175	0
Grp Sat Flow (s), veh/h/ln	1468	0	0	0	0	0	1468	0
Q Serve Time (g_s), s	1.8	0.0	0.0	0.0	0.0	0.0	7.2	0.0
Cycle Q Clear Time (g_c), s	1.8	0.0	0.0	0.0	0.0	0.0	7.2	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	183	0	0	0	0	0	604	0
V/C Ratio (X)	0.17	0.00	0.00	0.00	0.00	0.00	0.29	0.00
Avail Cap (c_a), veh/h	440	0	0	0	0	0	604	0
Upstream Filter (I)	1.00	0.00	0.00	0.00	0.00	0.00	0.96	0.00
Uniform Delay (d1), s/veh	35.2	0.0	0.0	0.0	0.0	0.0	17.7	0.0
Incr Delay (d2), s/veh	0.4	0.0	0.0	0.0	0.0	0.0	1.2	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	35.7	0.0	0.0	0.0	0.0	0.0	18.9	0.0
1st-Term Q (Q1), veh/ln	1.5	0.0	0.0	0.0	0.0	0.0	2.9	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	1.5	0.0	0.0	0.0	0.0	0.0	3.1	0.0
%ile Storage Ratio (RQ%)	0.02	0.00	0.00	0.00	0.00	0.00	0.57	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	19.0
HCM 2010 LOS	B



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (veh/h)	0	350	642	161	150	29
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	380	698	175	163	32
Adj No. of Lanes	1	2	2	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Cap, veh/h	544	2581	1349	604	205	183
Arrive On Green	0.00	0.79	0.41	0.41	0.12	0.12
Sat Flow, veh/h	1645	3368	3368	1468	1645	1468
Grp Volume(v), veh/h	0	380	698	175	163	32
Grp Sat Flow(s),veh/h/ln	1645	1641	1641	1468	1645	1468
Q Serve(g_s), s	0.0	2.5	14.3	7.2	8.7	1.8
Cycle Q Clear(g_c), s	0.0	2.5	14.3	7.2	8.7	1.8
Prop In Lane	1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	544	2581	1349	604	205	183
V/C Ratio(X)	0.00	0.15	0.52	0.29	0.79	0.17
Avail Cap(c_a), veh/h	544	2581	1349	604	494	440
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	0.96	0.96	1.00	1.00
Uniform Delay (d), s/veh	0.0	2.3	19.8	17.7	38.3	35.2
Incr Delay (d2), s/veh	0.0	0.1	1.4	1.2	6.8	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	1.2	6.8	3.1	4.3	1.5
LnGrp Delay(d),s/veh	0.0	2.4	21.2	18.9	45.1	35.7
LnGrp LOS		A	C	B	D	D
Approach Vol, veh/h		380	873		195	
Approach Delay, s/veh		2.4	20.7		43.6	
Approach LOS		A	C		D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6	7	8
Phs Duration (G+Y+Rc), s				74.8		15.2	33.8	41.0
Change Period (Y+Rc), s				4.0		4.0	4.0	4.0
Max Green Setting (Gmax), s				55.0		27.0	14.0	37.0
Max Q Clear Time (g_c+I1), s				4.5		10.7	0.0	16.3
Green Ext Time (p_c), s				1.6		0.6	0.0	3.7

Intersection Summary	
HCM 2010 Ctrl Delay	19.0
HCM 2010 LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	9	426	17	67	1038	23	200	296	91	3	74	9
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	10	463	18	73	1128	25	217	322	99	3	80	10
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	294	1789	800	92	1386	620	250	370	315	11	119	101
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.18	0.55	0.55	0.06	0.42	0.42	0.15	0.21	0.21	0.01	0.07	0.07
Ln Grp Delay, s/veh	30.6	11.2	2.1	52.8	26.9	15.4	57.9	44.4	20.4	56.8	47.3	39.7
Ln Grp LOS	C	B	A	D	C	B	E	D	C	E	D	D
Approach Vol, veh/h		491			1226			638			93	
Approach Delay, s/veh		11.2			28.2			45.2			46.8	
Approach LOS		B			C			D			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	6	5	8	7
Case No	3.0	2.0	2.0	3.0	3.0	2.0	3.0	2.0
Phs Duration (G+Y+Rc), s	23.3	4.6	9.0	53.1	10.2	17.7	42.0	20.1
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	28.0	4.0	9.0	33.0	16.0	16.0	38.0	4.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.0	4.1	4.1	4.0	4.0
Max Q Clear (g_c+I1), s	18.2	2.2	5.9	8.7	6.1	13.6	29.2	2.5
Green Ext Time (g_e), s	1.1	0.1	0.0	2.0	0.1	0.2	3.6	0.0
Prob of Phs Call (p_c)	1.00	0.07	0.84	1.00	1.00	1.00	1.00	0.22
Prob of Max Out (p_x)	0.08	1.00	1.00	0.00	0.00	1.00	0.00	1.00

Left-Turn Movement Data								
Assigned Mvmt		1	3			5		7
Mvmt Sat Flow, veh/h		1645	1645			1645		1645

Through Movement Data								
Assigned Mvmt	2			4	6		8	
Mvmt Sat Flow, veh/h	1727			3282	1727		3282	

Right-Turn Movement Data								
Assigned Mvmt	12			14	16		18	
Mvmt Sat Flow, veh/h	1468			1468	1468		1468	

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	0	5	0	7
Lane Assignment		(Prot)	(Prot)			(Prot)		(Prot)
Lanes in Grp	0	1	1	0	0	1	0	1

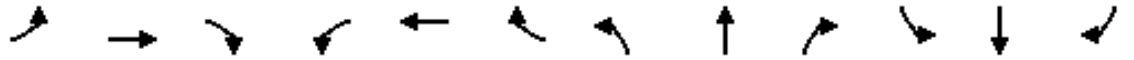
Grp Vol (v), veh/h	0	3	73	0	0	217	0	10
Grp Sat Flow (s), veh/h/ln	0	1645	1645	0	0	1645	0	1645
Q Serve Time (g_s), s	0.0	0.2	3.9	0.0	0.0	11.6	0.0	0.5
Cycle Q Clear Time (g_c), s	0.0	0.2	3.9	0.0	0.0	11.6	0.0	0.5
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	11	92	0	0	250	0	294
V/C Ratio (X)	0.00	0.27	0.80	0.00	0.00	0.87	0.00	0.03
Avail Cap (c_a), veh/h	0	73	165	0	0	292	0	294
Upstream Filter (I)	0.00	1.00	0.73	0.00	0.00	1.00	0.00	0.97
Uniform Delay (d1), s/veh	0.0	44.5	42.0	0.0	0.0	37.3	0.0	30.5
Incr Delay (d2), s/veh	0.0	12.3	10.8	0.0	0.0	20.7	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	56.8	52.8	0.0	0.0	57.9	0.0	30.6
1st-Term Q (Q1), veh/ln	0.0	0.1	1.8	0.0	0.0	5.2	0.0	0.2
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.3	0.0	0.0	1.4	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.1	2.1	0.0	0.0	6.7	0.0	0.2
%ile Storage Ratio (RQ%)	0.00	0.04	0.15	0.00	0.00	1.48	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	6	0	8	0
Lane Assignment	T			T	T		T	
Lanes in Grp	1	0	0	2	1	0	2	0
Grp Vol (v), veh/h	322	0	0	463	80	0	1128	0
Grp Sat Flow (s), veh/h/ln	1727	0	0	1641	1727	0	1641	0
Q Serve Time (g_s), s	16.2	0.0	0.0	6.7	4.1	0.0	27.2	0.0
Cycle Q Clear Time (g_c), s	16.2	0.0	0.0	6.7	4.1	0.0	27.2	0.0
Lane Grp Cap (c), veh/h	370	0	0	1789	119	0	1386	0
V/C Ratio (X)	0.87	0.00	0.00	0.26	0.67	0.00	0.81	0.00
Avail Cap (c_a), veh/h	537	0	0	1789	307	0	1386	0
Upstream Filter (I)	1.00	0.00	0.00	0.97	1.00	0.00	0.73	0.00
Uniform Delay (d1), s/veh	34.1	0.0	0.0	10.8	40.9	0.0	22.9	0.0
Incr Delay (d2), s/veh	10.2	0.0	0.0	0.3	6.4	0.0	4.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	44.4	0.0	0.0	11.2	47.3	0.0	26.9	0.0
1st-Term Q (Q1), veh/ln	7.7	0.0	0.0	3.0	1.9	0.0	12.2	0.0
2nd-Term Q (Q2), veh/ln	1.1	0.0	0.0	0.1	0.2	0.0	0.8	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	8.7	0.0	0.0	3.1	2.1	0.0	13.0	0.0
%ile Storage Ratio (RQ%)	0.10	0.00	0.00	0.01	0.01	0.00	0.03	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	0	14	16	0	18	0
Lane Assignment	R			R	R		R	
Lanes in Grp	1	0	0	1	1	0	1	0
Grp Vol (v), veh/h	99	0	0	18	10	0	25	0
Grp Sat Flow (s), veh/h/ln	1468	0	0	1468	1468	0	1468	0
Q Serve Time (g_s), s	4.2	0.0	0.0	0.2	0.6	0.0	0.9	0.0
Cycle Q Clear Time (g_c), s	4.2	0.0	0.0	0.2	0.6	0.0	0.9	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	315	0	0	800	101	0	620	0
V/C Ratio (X)	0.31	0.00	0.00	0.02	0.10	0.00	0.04	0.00
Avail Cap (c_a), veh/h	457	0	0	800	261	0	620	0
Upstream Filter (I)	1.00	0.00	0.00	0.97	1.00	0.00	0.73	0.00
Uniform Delay (d1), s/veh	19.8	0.0	0.0	2.1	39.3	0.0	15.3	0.0
Incr Delay (d2), s/veh	0.6	0.0	0.0	0.0	0.4	0.0	0.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	20.4	0.0	0.0	2.1	39.7	0.0	15.4	0.0
1st-Term Q (Q1), veh/ln	1.7	0.0	0.0	0.1	0.2	0.0	0.4	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	1.7	0.0	0.0	0.1	0.2	0.0	0.4	0.0
%ile Storage Ratio (RQ%)	0.39	0.00	0.00	0.01	0.08	0.00	0.04	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

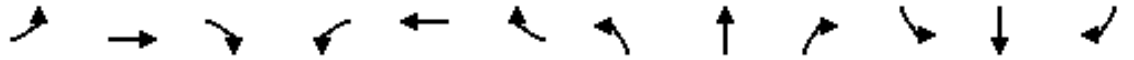
Intersection Summary	
HCM 2010 Ctrl Delay	29.9
HCM 2010 LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	9	426	17	67	1038	23	200	296	91	3	74	9
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	10	463	18	73	1128	25	217	322	99	3	80	10
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	294	1789	800	92	1386	620	250	370	315	11	119	101
Arrive On Green	0.18	0.55	0.55	0.06	0.42	0.42	0.15	0.21	0.21	0.01	0.07	0.07
Sat Flow, veh/h	1645	3282	1468	1645	3282	1468	1645	1727	1468	1645	1727	1468
Grp Volume(v), veh/h	10	463	18	73	1128	25	217	322	99	3	80	10
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1641	1468	1645	1727	1468	1645	1727	1468
Q Serve(g_s), s	0.5	6.7	0.2	3.9	27.2	0.9	11.6	16.2	4.2	0.2	4.1	0.6
Cycle Q Clear(g_c), s	0.5	6.7	0.2	3.9	27.2	0.9	11.6	16.2	4.2	0.2	4.1	0.6
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	294	1789	800	92	1386	620	250	370	315	11	119	101
V/C Ratio(X)	0.03	0.26	0.02	0.80	0.81	0.04	0.87	0.87	0.31	0.27	0.67	0.10
Avail Cap(c_a), veh/h	294	1789	800	165	1386	620	292	537	457	73	307	261
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.97	0.97	0.97	0.73	0.73	0.73	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	30.5	10.8	2.1	42.0	22.9	15.3	37.3	34.1	19.8	44.5	40.9	39.3
Incr Delay (d2), s/veh	0.0	0.3	0.0	10.8	4.0	0.1	20.7	10.2	0.6	12.3	6.4	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	3.1	0.1	2.1	13.0	0.4	6.7	8.7	1.7	0.1	2.1	0.2
LnGrp Delay(d),s/veh	30.6	11.2	2.1	52.8	26.9	15.4	57.9	44.4	20.4	56.8	47.3	39.7
LnGrp LOS	C	B	A	D	C	B	E	D	C	E	D	D
Approach Vol, veh/h		491			1226			638			93	
Approach Delay, s/veh		11.2			28.2			45.2			46.8	
Approach LOS		B			C			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	4.6	23.3	9.0	53.1	17.7	10.2	20.1	42.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	4.0	28.0	9.0	33.0	16.0	16.0	4.0	38.0
Max Q Clear Time (g_c+I1), s	2.2	18.2	5.9	8.7	13.6	6.1	2.5	29.2
Green Ext Time (p_c), s	0.1	1.1	0.0	2.0	0.2	0.1	0.0	3.6

Intersection Summary	
HCM 2010 Ctrl Delay	29.9
HCM 2010 LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	534	25	206	1111	2	111	0	815	5	3	0
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	580	27	224	1208	2	121	0	886	5	3	0
Adj No. of Lanes	1	2	1	1	2	0	2	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	2	802	359	358	1703	3	1007	614	522	8	77	65
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.00	0.24	0.24	0.22	0.51	0.51	0.32	0.00	0.36	0.00	0.04	0.00
Ln Grp Delay, s/veh	0.0	36.6	26.6	34.9	21.6	21.4	21.9	0.0	348.1	115.1	41.4	0.0
Ln Grp LOS		D	C	C	C	C	C		F	F	D	
Approach Vol, veh/h		607			1434			1007			8	
Approach Delay, s/veh		36.2			23.6			308.9			87.5	
Approach LOS		D			C			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	6	5	7	8
Case No	3.0	2.0	3.0	2.0	3.0	2.0	2.0	4.0
Phs Duration (G+Y+Rc), s	36.0	4.4	26.0	23.6	8.0	32.4	0.0	49.6
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	32.0	4.0	22.0	16.0	20.0	16.0	4.0	34.0
Max Allow Headway (MAH), s	4.4	4.1	4.0	4.0	4.0	4.1	0.0	4.0
Max Q Clear (g_c+I1), s	34.0	2.3	16.6	13.1	2.1	4.4	0.0	26.9
Green Ext Time (g_e), s	0.0	0.0	1.3	0.2	0.0	0.3	0.0	3.5
Prob of Phs Call (p_c)	1.00	0.12	1.00	1.00	1.00	1.00	0.00	1.00
Prob of Max Out (p_x)	1.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00

Left-Turn Movement Data								
Assigned Mvmt		1		3		5	7	
Mvmt Sat Flow, veh/h		1645		1645		3191	1645	

Through Movement Data								
Assigned Mvmt	2		4		6			8
Mvmt Sat Flow, veh/h	1727		3282		1727			3362

Right-Turn Movement Data								
Assigned Mvmt	12		14		16			18
Mvmt Sat Flow, veh/h	1468		1468		1468			6

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	0	5	7	0
Lane Assignment		(Prot)		(Prot)		(Prot)	(Prot)	
Lanes in Grp	0	1	0	1	0	2	1	0

Grp Vol (v), veh/h	0	5	0	224	0	121	0	0
Grp Sat Flow (s), veh/h/ln	0	1645	0	1645	0	1596	1645	0
Q Serve Time (g_s), s	0.0	0.3	0.0	11.1	0.0	2.4	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.3	0.0	11.1	0.0	2.4	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	8	0	358	0	1007	2	0
V/C Ratio (X)	0.00	0.67	0.00	0.63	0.00	0.12	0.00	0.00
Avail Cap (c_a), veh/h	0	73	0	358	0	1007	73	0
Upstream Filter (I)	0.00	1.00	0.00	0.88	0.00	0.65	0.00	0.00
Uniform Delay (d1), s/veh	0.0	44.7	0.0	31.9	0.0	21.9	0.0	0.0
Incr Delay (d2), s/veh	0.0	70.4	0.0	3.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	115.1	0.0	34.9	0.0	21.9	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.1	0.0	5.0	0.0	1.1	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.3	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.3	0.0	5.3	0.0	1.1	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.07	0.00	1.46	0.00	0.18	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	6	0	0	8
Lane Assignment	T		T		T			T
Lanes in Grp	1	0	2	0	1	0	0	1
Grp Vol (v), veh/h	0	0	580	0	3	0	0	590
Grp Sat Flow (s), veh/h/ln	1727	0	1641	0	1727	0	0	1641
Q Serve Time (g_s), s	0.0	0.0	14.6	0.0	0.1	0.0	0.0	24.9
Cycle Q Clear Time (g_c), s	0.0	0.0	14.6	0.0	0.1	0.0	0.0	24.9
Lane Grp Cap (c), veh/h	614	0	802	0	77	0	0	831
V/C Ratio (X)	0.00	0.00	0.72	0.00	0.04	0.00	0.00	0.71
Avail Cap (c_a), veh/h	614	0	802	0	384	0	0	831
Upstream Filter (I)	0.00	0.00	0.97	0.00	1.00	0.00	0.00	0.88
Uniform Delay (d1), s/veh	0.0	0.0	31.2	0.0	41.2	0.0	0.0	17.1
Incr Delay (d2), s/veh	0.0	0.0	5.4	0.0	0.2	0.0	0.0	4.5
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	36.6	0.0	41.4	0.0	0.0	21.6
1st-Term Q (Q1), veh/ln	0.0	0.0	6.6	0.0	0.1	0.0	0.0	11.1
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.6	0.0	0.0	0.0	0.0	1.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	7.2	0.0	0.1	0.0	0.0	12.2
%ile Storage Ratio (RQ%)	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.06
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

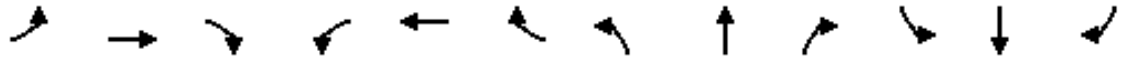
Right Lane Group Data								
Assigned Mvmt	12	0	14	0	16	0	0	18
Lane Assignment	R		R		R			T+R
Lanes in Grp	1	0	1	0	1	0	0	1
Grp Vol (v), veh/h	886	0	27	0	0	0	0	620
Grp Sat Flow (s), veh/h/ln	1468	0	1468	0	1468	0	0	1726
Q Serve Time (g_s), s	32.0	0.0	1.3	0.0	0.0	0.0	0.0	24.9
Cycle Q Clear Time (g_c), s	32.0	0.0	1.3	0.0	0.0	0.0	0.0	24.9
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	522	0	359	0	65	0	0	874
V/C Ratio (X)	1.70	0.00	0.08	0.00	0.00	0.00	0.00	0.71
Avail Cap (c_a), veh/h	522	0	359	0	326	0	0	874
Upstream Filter (I)	0.65	0.00	0.97	0.00	0.00	0.00	0.00	0.88
Uniform Delay (d1), s/veh	29.0	0.0	26.2	0.0	0.0	0.0	0.0	17.1
Incr Delay (d2), s/veh	319.1	0.0	0.4	0.0	0.0	0.0	0.0	4.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	348.1	0.0	26.6	0.0	0.0	0.0	0.0	21.4
1st-Term Q (Q1), veh/ln	12.9	0.0	0.5	0.0	0.0	0.0	0.0	11.7
2nd-Term Q (Q2), veh/ln	46.3	0.0	0.0	0.0	0.0	0.0	0.0	1.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	59.2	0.0	0.6	0.0	0.0	0.0	0.0	12.8
%ile Storage Ratio (RQ%)	14.93	0.00	0.06	0.00	0.00	0.00	0.00	0.07
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	91.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	120.3
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	534	25	206	1111	2	111	0	815	5	3	0
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	580	27	224	1208	2	121	0	886	5	3	0
Adj No. of Lanes	1	2	1	1	2	0	2	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	2	802	359	358	1703	3	1007	614	522	8	77	65
Arrive On Green	0.00	0.24	0.24	0.22	0.51	0.51	0.32	0.00	0.36	0.00	0.04	0.00
Sat Flow, veh/h	1645	3282	1468	1645	3362	6	3191	1727	1468	1645	1727	1468
Grp Volume(v), veh/h	0	580	27	224	590	620	121	0	886	5	3	0
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1641	1726	1596	1727	1468	1645	1727	1468
Q Serve(g_s), s	0.0	14.6	1.3	11.1	24.9	24.9	2.4	0.0	32.0	0.3	0.1	0.0
Cycle Q Clear(g_c), s	0.0	14.6	1.3	11.1	24.9	24.9	2.4	0.0	32.0	0.3	0.1	0.0
Prop In Lane	1.00		1.00	1.00		0.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	2	802	359	358	831	874	1007	614	522	8	77	65
V/C Ratio(X)	0.00	0.72	0.08	0.63	0.71	0.71	0.12	0.00	1.70	0.67	0.04	0.00
Avail Cap(c_a), veh/h	73	802	359	358	831	874	1007	614	522	73	384	326
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.97	0.97	0.88	0.88	0.88	0.65	0.00	0.65	1.00	1.00	0.00
Uniform Delay (d), s/veh	0.0	31.2	26.2	31.9	17.1	17.1	21.9	0.0	29.0	44.7	41.2	0.0
Incr Delay (d2), s/veh	0.0	5.4	0.4	3.0	4.5	4.3	0.0	0.0	319.1	70.4	0.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	7.2	0.6	5.3	12.2	12.8	1.1	0.0	59.2	0.3	0.1	0.0
LnGrp Delay(d),s/veh	0.0	36.6	26.6	34.9	21.6	21.4	21.9	0.0	348.1	115.1	41.4	0.0
LnGrp LOS		D	C	C	C	C	C		F	F	D	
Approach Vol, veh/h		607			1434			1007			8	
Approach Delay, s/veh		36.2			23.6			308.9			87.5	
Approach LOS		D			C			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	4.4	36.0	23.6	26.0	32.4	8.0	0.0	49.6
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	4.0	32.0	16.0	22.0	16.0	20.0	4.0	34.0
Max Q Clear Time (g_c+I1), s	2.3	34.0	13.1	16.6	4.4	2.1	0.0	26.9
Green Ext Time (p_c), s	0.0	0.0	0.2	1.3	0.3	0.0	0.0	3.5

Intersection Summary	
HCM 2010 Ctrl Delay	120.3
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	39	1342	54	183	0	109	133	32	437	15	6	17
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	42	1459	59	199	0	118	145	35	475	16	7	18
Adj No. of Lanes	1	2	0	1	2	1	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	864	2144	87	203	2188	979	377	25	338	80	105	270
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.67	0.67	0.67	0.67	0.00	0.67	0.24	0.24	0.24	0.24	0.24	0.24
Ln Grp Delay, s/veh	5.2	10.8	10.7	91.8	0.0	5.7	30.4	0.0	229.4	46.2	0.0	26.2
Ln Grp LOS	A	B	B	F		A	C		F	D		C
Approach Vol, veh/h		1560			317			655			41	
Approach Delay, s/veh		10.6			59.8			185.3			34.0	
Approach LOS		B			E			F			C	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Case No		6.0		6.0		6.0		5.0
Phs Duration (G+Y+Rc), s		26.0		64.0		26.0		64.0
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green (Gmax), s		22.0		60.0		22.0		60.0
Max Allow Headway (MAH), s		4.4		4.9		4.4		4.9
Max Q Clear (g_c+I1), s		24.0		27.0		24.0		62.0
Green Ext Time (g_e), s		0.0		15.6		0.0		0.0
Prob of Phs Call (p_c)		1.00		1.00		1.00		1.00
Prob of Max Out (p_x)		1.00		0.00		1.00		0.00

Left-Turn Movement Data								
Assigned Mvmt		5		7		1		3
Mvmt Sat Flow, veh/h		1280		1176		822		318

Through Movement Data								
Assigned Mvmt		2		4		6		8
Mvmt Sat Flow, veh/h		102		3216		429		3282

Right-Turn Movement Data								
Assigned Mvmt		12		14		16		18
Mvmt Sat Flow, veh/h		1382		130		1103		1468

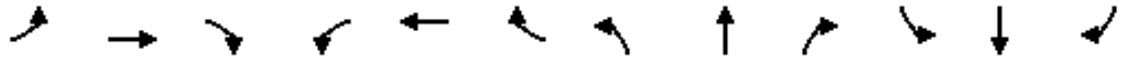
Left Lane Group Data								
Assigned Mvmt	0	5	0	7	0	1	0	3
Lane Assignment								
Lanes in Grp	0	1	0	1	0	1	0	1

Grp Vol (v), veh/h	0	145	0	42	0	16	0	199
Grp Sat Flow (s), veh/h/ln	0	1280	0	1176	0	822	0	318
Q Serve Time (g_s), s	0.0	8.8	0.0	1.1	0.0	0.0	0.0	35.0
Cycle Q Clear Time (g_c), s	0.0	10.0	0.0	1.1	0.0	22.0	0.0	60.0
Perm LT Sat Flow (s_l), veh/h/ln	0	1280	0	1176	0	822	0	318
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	22.0	0.0	60.0	0.0	22.0	0.0	60.0
Perm LT Serve Time (g_u), s	0.0	20.9	0.0	60.0	0.0	0.0	0.0	35.0
Perm LT Q Serve Time (g_ps), s	0.0	8.8	0.0	1.1	0.0	0.0	0.0	35.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	377	0	864	0	80	0	203
V/C Ratio (X)	0.00	0.38	0.00	0.05	0.00	0.20	0.00	0.98
Avail Cap (c_a), veh/h	0	377	0	864	0	80	0	203
Upstream Filter (I)	0.00	0.78	0.00	0.47	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	29.9	0.0	5.2	0.0	45.0	0.0	34.1
Incr Delay (d2), s/veh	0.0	0.5	0.0	0.1	0.0	1.2	0.0	57.7
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	30.4	0.0	5.2	0.0	46.2	0.0	91.8
1st-Term Q (Q1), veh/ln	0.0	3.1	0.0	0.4	0.0	0.4	0.0	4.9
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.0	0.0	0.0	0.0	3.3
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	3.2	0.0	0.4	0.0	0.4	0.0	8.2
%ile Storage Ratio (RQ%)	0.00	0.75	0.00	0.03	0.00	0.02	0.00	1.14
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	0	8
Lane Assignment				T				T
Lanes in Grp	0	0	0	1	0	0	0	2
Grp Vol (v), veh/h	0	0	0	743	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1641	0	0	0	1641
Q Serve Time (g_s), s	0.0	0.0	0.0	24.8	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	24.8	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	1094	0	0	0	2188
V/C Ratio (X)	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	1094	0	0	0	2188
Upstream Filter (I)	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	9.1	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	10.8	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	10.9	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	11.4	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	0	18
Lane Assignment		T+R		T+R		T+R		R
Lanes in Grp	0	1	0	1	0	1	0	1
Grp Vol (v), veh/h	0	510	0	775	0	25	0	118
Grp Sat Flow (s), veh/h/ln	0	1483	0	1704	0	1533	0	1468
Q Serve Time (g_s), s	0.0	22.0	0.0	25.0	0.0	1.1	0.0	2.6
Cycle Q Clear Time (g_c), s	0.0	22.0	0.0	25.0	0.0	1.1	0.0	2.6
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.93	0.00	0.08	0.00	0.72	0.00	1.00
Lane Grp Cap (c), veh/h	0	363	0	1136	0	375	0	979
V/C Ratio (X)	0.00	1.41	0.00	0.68	0.00	0.07	0.00	0.12
Avail Cap (c_a), veh/h	0	363	0	1136	0	375	0	979
Upstream Filter (I)	0.00	0.78	0.00	0.47	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	34.0	0.0	9.2	0.0	26.1	0.0	5.4
Incr Delay (d2), s/veh	0.0	195.4	0.0	1.6	0.0	0.1	0.0	0.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	229.4	0.0	10.7	0.0	26.2	0.0	5.7
1st-Term Q (Q1), veh/ln	0.0	9.0	0.0	11.6	0.0	0.5	0.0	1.0
2nd-Term Q (Q2), veh/ln	0.0	19.7	0.0	0.5	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	28.6	0.0	12.1	0.0	0.5	0.0	1.1
%ile Storage Ratio (RQ%)	0.00	0.04	0.00	0.06	0.00	0.02	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	36.8	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0

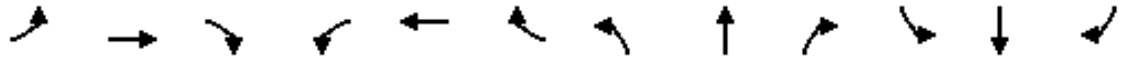
Intersection Summary	
HCM 2010 Ctrl Delay	61.5
HCM 2010 LOS	E



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	39	1342	54	183	0	109	133	32	437	15	6	17
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	42	1459	59	199	0	118	145	35	475	16	7	18
Adj No. of Lanes	1	2	0	1	2	1	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	864	2144	87	203	2188	979	377	25	338	80	105	270
Arrive On Green	0.67	0.67	0.67	0.67	0.00	0.67	0.24	0.24	0.24	0.24	0.24	0.24
Sat Flow, veh/h	1176	3216	130	318	3282	1468	1280	102	1382	822	429	1103
Grp Volume(v), veh/h	42	743	775	199	0	118	145	0	510	16	0	25
Grp Sat Flow(s),veh/h/ln	1176	1641	1704	318	1641	1468	1280	0	1483	822	0	1533
Q Serve(g_s), s	1.1	24.8	25.0	35.0	0.0	2.6	8.8	0.0	22.0	0.0	0.0	1.1
Cycle Q Clear(g_c), s	1.1	24.8	25.0	60.0	0.0	2.6	10.0	0.0	22.0	22.0	0.0	1.1
Prop In Lane	1.00		0.08	1.00		1.00	1.00		0.93	1.00		0.72
Lane Grp Cap(c), veh/h	864	1094	1136	203	2188	979	377	0	363	80	0	375
V/C Ratio(X)	0.05	0.68	0.68	0.98	0.00	0.12	0.38	0.00	1.41	0.20	0.00	0.07
Avail Cap(c_a), veh/h	864	1094	1136	203	2188	979	377	0	363	80	0	375
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.47	0.47	0.47	1.00	0.00	1.00	0.78	0.00	0.78	1.00	0.00	1.00
Uniform Delay (d), s/veh	5.2	9.1	9.2	34.1	0.0	5.4	29.9	0.0	34.0	45.0	0.0	26.1
Incr Delay (d2), s/veh	0.1	1.6	1.6	57.7	0.0	0.3	0.5	0.0	195.4	1.2	0.0	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	11.4	12.1	8.2	0.0	1.1	3.2	0.0	28.6	0.4	0.0	0.5
LnGrp Delay(d),s/veh	5.2	10.8	10.7	91.8	0.0	5.7	30.4	0.0	229.4	46.2	0.0	26.2
LnGrp LOS	A	B	B	F		A	C		F	D		C
Approach Vol, veh/h		1560			317			655			41	
Approach Delay, s/veh		10.6			59.8			185.3			34.0	
Approach LOS		B			E			F			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Phs Duration (G+Y+Rc), s		26.0		64.0		26.0		64.0
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green Setting (Gmax), s		22.0		60.0		22.0		60.0
Max Q Clear Time (g_c+I1), s		24.0		27.0		24.0		62.0
Green Ext Time (p_c), s		0.0		15.6		0.0		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	61.5
HCM 2010 LOS	E



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	125	837	74	137	679	174	103	362	180	105	800	56
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1545	1545	1545	1545	1545	1545	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	136	910	80	149	738	189	112	393	196	114	870	61
Adj No. of Lanes	1	2	1	1	2	1	1	2	0	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	23	23	23	23	23	23	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	199	1076	481	199	1076	481	134	454	224	484	928	415
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.14	0.37	0.37	0.14	0.37	0.37	0.08	0.21	0.21	0.15	0.28	0.28
Ln Grp Delay, s/veh	58.6	43.1	15.8	61.9	35.1	30.1	87.3	55.6	57.9	45.0	53.8	16.7
Ln Grp LOS	E	D	B	E	D	C	F	E	E	D	D	B
Approach Vol, veh/h		1126			1076			701			1045	
Approach Delay, s/veh		43.0			37.9			61.6			50.6	
Approach LOS		D			D			E			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	5	6	8	7
Case No	4.0	2.0	3.0	2.0	2.0	3.0	3.0	2.0
Phs Duration (G+Y+Rc), s	29.6	22.2	48.0	20.3	13.8	37.9	48.0	20.3
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	37.0	8.0	44.0	15.0	10.0	35.0	44.0	15.0
Max Allow Headway (MAH), s	4.1	4.0	4.1	4.1	4.1	4.0	4.1	4.1
Max Q Clear (g_c+I1), s	23.7	5.8	36.2	13.7	10.1	33.0	27.5	12.6
Green Ext Time (g_e), s	1.9	1.1	2.9	0.1	0.0	0.9	3.8	0.2
Prob of Phs Call (p_c)	1.00	0.98	1.00	0.99	0.98	1.00	1.00	0.99
Prob of Max Out (p_x)	0.04	1.00	0.00	1.00	1.00	1.00	0.00	1.00

Left-Turn Movement Data								
Assigned Mvmt		1		3	5			7
Mvmt Sat Flow, veh/h		3191		1471	1645			1471

Through Movement Data								
Assigned Mvmt	2		4			6	8	
Mvmt Sat Flow, veh/h	2133		2935			3282	2935	

Right-Turn Movement Data								
Assigned Mvmt	12		14			16	18	
Mvmt Sat Flow, veh/h	1050		1313			1468	1313	

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	5	0	0	7
Lane Assignment		(Prot)		(Prot)	(Prot)			(Prot)
Lanes in Grp	0	2	0	1	1	0	0	1

Grp Vol (v), veh/h	0	114	0	149	112	0	0	136
Grp Sat Flow (s), veh/h/ln	0	1596	0	1471	1645	0	0	1471
Q Serve Time (g_s), s	0.0	3.8	0.0	11.7	8.1	0.0	0.0	10.6
Cycle Q Clear Time (g_c), s	0.0	3.8	0.0	11.7	8.1	0.0	0.0	10.6
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	484	0	199	134	0	0	199
V/C Ratio (X)	0.00	0.24	0.00	0.75	0.83	0.00	0.00	0.68
Avail Cap (c_a), veh/h	0	484	0	199	137	0	0	199
Upstream Filter (I)	0.00	0.67	0.00	0.82	1.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	44.8	0.0	49.9	54.3	0.0	0.0	49.4
Incr Delay (d2), s/veh	0.0	0.2	0.0	12.0	33.0	0.0	0.0	9.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	45.0	0.0	61.9	87.3	0.0	0.0	58.6
1st-Term Q (Q1), veh/ln	0.0	1.7	0.0	4.8	3.7	0.0	0.0	4.3
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.7	1.2	0.0	0.0	0.5
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.7	0.0	5.4	4.9	0.0	0.0	4.8
%ile Storage Ratio (RQ%)	0.00	0.23	0.00	0.40	0.49	0.00	0.00	0.38
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	0	6	8	0
Lane Assignment	T		T			T	T	
Lanes in Grp	1	0	2	0	0	2	2	0
Grp Vol (v), veh/h	301	0	910	0	0	870	738	0
Grp Sat Flow (s), veh/h/ln	1641	0	1467	0	0	1641	1467	0
Q Serve Time (g_s), s	21.2	0.0	34.2	0.0	0.0	31.0	25.5	0.0
Cycle Q Clear Time (g_c), s	21.2	0.0	34.2	0.0	0.0	31.0	25.5	0.0
Lane Grp Cap (c), veh/h	349	0	1076	0	0	928	1076	0
V/C Ratio (X)	0.86	0.00	0.85	0.00	0.00	0.94	0.69	0.00
Avail Cap (c_a), veh/h	506	0	1076	0	0	957	1076	0
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.00	0.67	0.82	0.00
Uniform Delay (d1), s/veh	45.5	0.0	34.9	0.0	0.0	42.0	32.2	0.0
Incr Delay (d2), s/veh	10.1	0.0	8.2	0.0	0.0	11.8	2.9	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	55.6	0.0	43.1	0.0	0.0	53.8	35.1	0.0
1st-Term Q (Q1), veh/ln	9.6	0.0	13.8	0.0	0.0	14.0	10.4	0.0
2nd-Term Q (Q2), veh/ln	1.0	0.0	1.2	0.0	0.0	1.5	0.4	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	10.6	0.0	15.0	0.0	0.0	15.5	10.8	0.0
%ile Storage Ratio (RQ%)	0.08	0.00	0.01	0.00	0.00	0.02	0.06	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

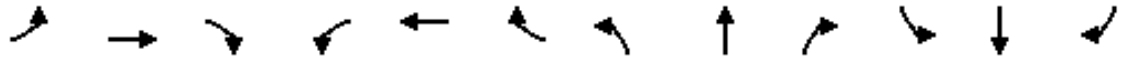
Right Lane Group Data								
Assigned Mvmt	12	0	14	0	0	16	18	0
Lane Assignment	T+R		R			R	R	
Lanes in Grp	1	0	1	0	0	1	1	0
Grp Vol (v), veh/h	288	0	80	0	0	61	189	0
Grp Sat Flow (s), veh/h/ln	1542	0	1313	0	0	1468	1313	0
Q Serve Time (g_s), s	21.7	0.0	3.8	0.0	0.0	2.7	12.8	0.0
Cycle Q Clear Time (g_c), s	21.7	0.0	3.8	0.0	0.0	2.7	12.8	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.68	0.00	1.00	0.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	328	0	481	0	0	415	481	0
V/C Ratio (X)	0.88	0.00	0.17	0.00	0.00	0.15	0.39	0.00
Avail Cap (c_a), veh/h	475	0	481	0	0	428	481	0
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.00	0.67	0.82	0.00
Uniform Delay (d1), s/veh	45.7	0.0	15.0	0.0	0.0	16.6	28.1	0.0
Incr Delay (d2), s/veh	12.2	0.0	0.7	0.0	0.0	0.1	2.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	57.9	0.0	15.8	0.0	0.0	16.7	30.1	0.0
1st-Term Q (Q1), veh/ln	9.2	0.0	1.4	0.0	0.0	1.1	4.6	0.0
2nd-Term Q (Q2), veh/ln	1.1	0.0	0.1	0.0	0.0	0.0	0.3	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	10.3	0.0	1.5	0.0	0.0	1.1	4.9	0.0
%ile Storage Ratio (RQ%)	0.08	0.00	0.48	0.00	0.00	0.15	0.97	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	46.9
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	125	837	74	137	679	174	103	362	180	105	800	56
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1545	1545	1545	1545	1545	1545	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	136	910	80	149	738	189	112	393	196	114	870	61
Adj No. of Lanes	1	2	1	1	2	1	1	2	0	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	23	23	23	23	23	23	10	10	10	10	10	10
Cap, veh/h	199	1076	481	199	1076	481	134	454	224	484	928	415
Arrive On Green	0.14	0.37	0.37	0.14	0.37	0.37	0.08	0.21	0.21	0.15	0.28	0.28
Sat Flow, veh/h	1471	2935	1313	1471	2935	1313	1645	2133	1050	3191	3282	1468
Grp Volume(v), veh/h	136	910	80	149	738	189	112	301	288	114	870	61
Grp Sat Flow(s),veh/h/ln	1471	1467	1313	1471	1467	1313	1645	1641	1542	1596	1641	1468
Q Serve(g_s), s	10.6	34.2	3.8	11.7	25.5	12.8	8.1	21.2	21.7	3.8	31.0	2.7
Cycle Q Clear(g_c), s	10.6	34.2	3.8	11.7	25.5	12.8	8.1	21.2	21.7	3.8	31.0	2.7
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.68	1.00		1.00
Lane Grp Cap(c), veh/h	199	1076	481	199	1076	481	134	349	328	484	928	415
V/C Ratio(X)	0.68	0.85	0.17	0.75	0.69	0.39	0.83	0.86	0.88	0.24	0.94	0.15
Avail Cap(c_a), veh/h	199	1076	481	199	1076	481	137	506	475	484	957	428
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.82	0.82	0.82	1.00	1.00	1.00	0.67	0.67	0.67
Uniform Delay (d), s/veh	49.4	34.9	15.0	49.9	32.2	28.1	54.3	45.5	45.7	44.8	42.0	16.6
Incr Delay (d2), s/veh	9.2	8.2	0.7	12.0	2.9	2.0	33.0	10.1	12.2	0.2	11.8	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.8	15.0	1.5	5.4	10.8	4.9	4.9	10.6	10.3	1.7	15.5	1.1
LnGrp Delay(d),s/veh	58.6	43.1	15.8	61.9	35.1	30.1	87.3	55.6	57.9	45.0	53.8	16.7
LnGrp LOS	E	D	B	E	D	C	F	E	E	D	D	B
Approach Vol, veh/h		1126			1076			701			1045	
Approach Delay, s/veh		43.0			37.9			61.6			50.6	
Approach LOS		D			D			E			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	22.2	29.6	20.3	48.0	13.8	37.9	20.3	48.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	18.0	37.0	15.0	44.0	10.0	35.0	15.0	44.0
Max Q Clear Time (g_c+I1), s	15.8	23.7	13.7	36.2	10.1	33.0	12.6	27.5
Green Ext Time (p_c), s	1.1	1.9	0.1	2.9	0.0	0.9	0.2	3.8

Intersection Summary	
HCM 2010 Ctrl Delay	46.9
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	121	1045	155	160	664	62	165	564	238	270	908	73
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1545	1545	1900	1545	1545	1545	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	132	1136	168	174	722	67	179	613	259	293	987	79
Adj No. of Lanes	2	2	0	2	2	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	23	23	23	23	23	23	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	177	1193	176	214	1401	627	306	1033	321	345	1090	339
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.06	0.46	0.46	0.07	0.48	0.48	0.10	0.22	0.22	0.11	0.23	0.23
Ln Grp Delay, s/veh	60.2	45.9	46.7	75.4	22.1	17.3	52.2	42.3	31.8	54.3	46.3	26.1
Ln Grp LOS	E	D	D	E	C	B	D	D	C	D	D	C
Approach Vol, veh/h		1436			963			1051			1359	
Approach Delay, s/veh		47.6			31.4			41.4			46.8	
Approach LOS		D			C			D			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	6	5	7	8
Case No	2.0	3.0	4.0	2.0	3.0	2.0	2.0	3.0
Phs Duration (G+Y+Rc), s	17.0	30.3	59.8	13.0	31.7	15.5	11.5	61.3
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	14.0	23.0	58.0	9.0	29.0	8.0	10.0	57.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.0	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	12.8	18.4	53.3	9.2	26.4	8.4	7.5	22.5
Green Ext Time (g_e), s	0.1	2.0	2.5	0.0	1.3	0.0	0.1	4.6
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	1.00	0.99	1.00
Prob of Max Out (p_x)	1.00	0.91	0.92	1.00	1.00	1.00	1.00	0.00

Left-Turn Movement Data								
Assigned Mvmt	1			3		5	7	
Mvmt Sat Flow, veh/h	3191			2854		3191	2854	

Through Movement Data								
Assigned Mvmt		2	4		6			8
Mvmt Sat Flow, veh/h		4715	2567		4715			2935

Right-Turn Movement Data								
Assigned Mvmt		12	14		16			18
Mvmt Sat Flow, veh/h		1468	379		1468			1313

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	0	5	7	0
Lane Assignment	(Prot)			(Prot)		(Prot)	(Prot)	
Lanes in Grp	2	0	0	2	0	2	2	0

Grp Vol (v), veh/h	293	0	0	174	0	179	132	0
Grp Sat Flow (s), veh/h/ln	1596	0	0	1427	0	1596	1427	0
Q Serve Time (g_s), s	10.8	0.0	0.0	7.2	0.0	6.4	5.5	0.0
Cycle Q Clear Time (g_c), s	10.8	0.0	0.0	7.2	0.0	6.4	5.5	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	345	0	0	214	0	306	177	0
V/C Ratio (X)	0.85	0.00	0.00	0.81	0.00	0.58	0.74	0.00
Avail Cap (c_a), veh/h	372	0	0	214	0	306	238	0
Upstream Filter (I)	0.09	0.00	0.00	1.00	0.00	0.09	0.58	0.00
Uniform Delay (d1), s/veh	52.6	0.0	0.0	54.7	0.0	51.9	55.3	0.0
Incr Delay (d2), s/veh	1.7	0.0	0.0	20.7	0.0	0.3	4.9	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	54.3	0.0	0.0	75.4	0.0	52.2	60.2	0.0
1st-Term Q (Q1), veh/ln	4.8	0.0	0.0	2.9	0.0	2.8	2.2	0.0
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.0	0.6	0.0	0.0	0.1	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	4.8	0.0	0.0	3.5	0.0	2.8	2.3	0.0
%ile Storage Ratio (RQ%)	0.58	0.00	0.00	0.21	0.00	0.40	0.13	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	6	0	0	8
Lane Assignment		T	T		T			T
Lanes in Grp	0	3	1	0	3	0	0	2
Grp Vol (v), veh/h	0	613	648	0	987	0	0	722
Grp Sat Flow (s), veh/h/ln	0	1572	1467	0	1572	0	0	1467
Q Serve Time (g_s), s	0.0	14.0	50.8	0.0	24.4	0.0	0.0	20.5
Cycle Q Clear Time (g_c), s	0.0	14.0	50.8	0.0	24.4	0.0	0.0	20.5
Lane Grp Cap (c), veh/h	0	1033	682	0	1090	0	0	1401
V/C Ratio (X)	0.00	0.59	0.95	0.00	0.91	0.00	0.00	0.52
Avail Cap (c_a), veh/h	0	1033	709	0	1140	0	0	1401
Upstream Filter (I)	0.00	0.09	0.58	0.00	0.09	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	42.1	30.8	0.0	44.9	0.0	0.0	21.7
Incr Delay (d2), s/veh	0.0	0.2	15.1	0.0	1.4	0.0	0.0	0.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	42.3	45.9	0.0	46.3	0.0	0.0	22.1
1st-Term Q (Q1), veh/ln	0.0	6.1	20.5	0.0	10.6	0.0	0.0	8.2
2nd-Term Q (Q2), veh/ln	0.0	0.0	2.9	0.0	0.1	0.0	0.0	0.1

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	6.1	23.4	0.0	10.7	0.0	0.0	8.3
%ile Storage Ratio (RQ%)	0.00	0.02	0.13	0.00	0.01	0.00	0.00	0.05
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

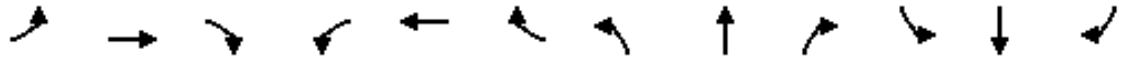
Right Lane Group Data								
Assigned Mvmt	0	12	14	0	16	0	0	18
Lane Assignment		R	T+R		R			R
Lanes in Grp	0	1	1	0	1	0	0	1
Grp Vol (v), veh/h	0	259	656	0	79	0	0	67
Grp Sat Flow (s), veh/h/ln	0	1468	1478	0	1468	0	0	1313
Q Serve Time (g_s), s	0.0	16.4	51.3	0.0	4.4	0.0	0.0	3.4
Cycle Q Clear Time (g_c), s	0.0	16.4	51.3	0.0	4.4	0.0	0.0	3.4
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.26	0.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	321	687	0	339	0	0	627
V/C Ratio (X)	0.00	0.81	0.96	0.00	0.23	0.00	0.00	0.11
Avail Cap (c_a), veh/h	0	321	714	0	355	0	0	627
Upstream Filter (I)	0.00	0.09	0.58	0.00	0.09	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	29.8	30.9	0.0	26.0	0.0	0.0	17.3
Incr Delay (d2), s/veh	0.0	2.0	15.8	0.0	0.1	0.0	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	31.8	46.7	0.0	26.1	0.0	0.0	17.3
1st-Term Q (Q1), veh/ln	0.0	6.7	20.8	0.0	1.8	0.0	0.0	1.2
2nd-Term Q (Q2), veh/ln	0.0	0.2	3.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	6.9	23.8	0.0	1.8	0.0	0.0	1.2
%ile Storage Ratio (RQ%)	0.00	0.90	0.14	0.00	0.26	0.00	0.00	0.34
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	42.8
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	121	1045	155	160	664	62	165	564	238	270	908	73
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1545	1545	1900	1545	1545	1545	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	132	1136	168	174	722	67	179	613	259	293	987	79
Adj No. of Lanes	2	2	0	2	2	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	23	23	23	23	23	23	10	10	10	10	10	10
Cap, veh/h	177	1193	176	214	1401	627	306	1033	321	345	1090	339
Arrive On Green	0.06	0.46	0.46	0.07	0.48	0.48	0.10	0.22	0.22	0.11	0.23	0.23
Sat Flow, veh/h	2854	2567	379	2854	2935	1313	3191	4715	1468	3191	4715	1468
Grp Volume(v), veh/h	132	648	656	174	722	67	179	613	259	293	987	79
Grp Sat Flow(s),veh/h/ln	1427	1467	1478	1427	1467	1313	1596	1572	1468	1596	1572	1468
Q Serve(g_s), s	5.5	50.8	51.3	7.2	20.5	3.4	6.4	14.0	16.4	10.8	24.4	4.4
Cycle Q Clear(g_c), s	5.5	50.8	51.3	7.2	20.5	3.4	6.4	14.0	16.4	10.8	24.4	4.4
Prop In Lane	1.00		0.26	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	177	682	687	214	1401	627	306	1033	321	345	1090	339
V/C Ratio(X)	0.74	0.95	0.96	0.81	0.52	0.11	0.58	0.59	0.81	0.85	0.91	0.23
Avail Cap(c_a), veh/h	238	709	714	214	1401	627	306	1033	321	372	1140	355
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.58	0.58	0.58	1.00	1.00	1.00	0.09	0.09	0.09	0.09	0.09	0.09
Uniform Delay (d), s/veh	55.3	30.8	30.9	54.7	21.7	17.3	51.9	42.1	29.8	52.6	44.9	26.0
Incr Delay (d2), s/veh	4.9	15.1	15.8	20.7	0.3	0.1	0.3	0.2	2.0	1.7	1.4	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.3	23.4	23.8	3.5	8.3	1.2	2.8	6.1	6.9	4.8	10.7	1.8
LnGrp Delay(d),s/veh	60.2	45.9	46.7	75.4	22.1	17.3	52.2	42.3	31.8	54.3	46.3	26.1
LnGrp LOS	E	D	D	E	C	B	D	D	C	D	D	C
Approach Vol, veh/h		1436			963			1051			1359	
Approach Delay, s/veh		47.6			31.4			41.4			46.8	
Approach LOS		D			C			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	17.0	30.3	13.0	59.8	15.5	31.7	11.5	61.3
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	13.0	23.0	9.0	58.0	8.0	29.0	10.0	57.0
Max Q Clear Time (g_c+I1), s	12.8	18.4	9.2	53.3	8.4	26.4	7.5	22.5
Green Ext Time (p_c), s	0.1	2.0	0.0	2.5	0.0	1.3	0.1	4.6

Intersection Summary	
HCM 2010 Ctrl Delay	42.8
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	241	726	52	171	762	62	135	29	558	217	30	753
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	262	789	57	186	828	67	147	32	607	236	33	818
Adj No. of Lanes	2	2	1	2	2	1	2	2	2	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	266	855	382	259	848	379	262	317	250	292	347	155
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.08	0.26	0.26	0.08	0.26	0.26	0.08	0.10	0.10	0.09	0.11	0.11
Ln Grp Delay, s/veh	105.8	57.6	34.3	60.5	65.4	35.3	54.8	49.6	660.1	63.4	48.6	1943.9
Ln Grp LOS	F	E	C	E	E	D	D	D	F	E	D	F
Approach Vol, veh/h		1108			1081			786			1087	
Approach Delay, s/veh		67.8			62.7			522.1			1478.1	
Approach LOS		E			E			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	6	5	7	8
Case No	2.0	3.0	3.0	2.0	3.0	2.0	2.0	3.0
Phs Duration (G+Y+Rc), s	15.0	15.6	35.2	13.8	16.7	13.9	14.0	35.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	14.0	49.0	33.0	8.0	47.0	16.0	10.0	31.0
Max Allow Headway (MAH), s	4.1	4.3	4.0	4.1	4.3	4.3	4.1	4.1
Max Q Clear (g_c+I1), s	10.7	7.4	30.1	8.8	7.8	7.3	11.8	32.0
Green Ext Time (g_e), s	0.3	4.1	1.2	0.0	4.9	2.6	0.0	0.0
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prob of Max Out (p_x)	1.00	0.00	1.00	1.00	0.00	0.32	1.00	0.00

Left-Turn Movement Data								
Assigned Mvmt	1			3		5	7	
Mvmt Sat Flow, veh/h	3191			3191		3191	3191	

Through Movement Data								
Assigned Mvmt		2	4		6			8
Mvmt Sat Flow, veh/h		3282	3282		3282			3282

Right-Turn Movement Data								
Assigned Mvmt		12	14		16			18
Mvmt Sat Flow, veh/h		2584	1468		1468			1468

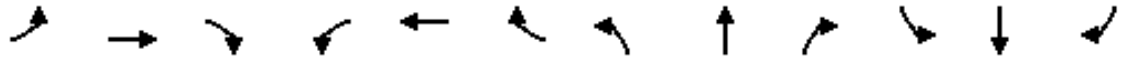
Left Lane Group Data								
Assigned Mvmt	1	0	0	3	0	5	7	0
Lane Assignment	(Prot)			(Prot)		(Prot)	(Prot)	
Lanes in Grp	2	0	0	2	0	2	2	0

Grp Vol (v), veh/h	236	0	0	186	0	147	262	0
Grp Sat Flow (s), veh/h/ln	1596	0	0	1596	0	1596	1596	0
Q Serve Time (g_s), s	8.7	0.0	0.0	6.8	0.0	5.3	9.8	0.0
Cycle Q Clear Time (g_c), s	8.7	0.0	0.0	6.8	0.0	5.3	9.8	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	292	0	0	259	0	262	266	0
V/C Ratio (X)	0.81	0.00	0.00	0.72	0.00	0.56	0.99	0.00
Avail Cap (c_a), veh/h	372	0	0	259	0	426	266	0
Upstream Filter (I)	1.00	0.00	0.00	0.73	0.00	0.99	1.00	0.00
Uniform Delay (d1), s/veh	53.5	0.0	0.0	53.8	0.0	53.0	54.9	0.0
Incr Delay (d2), s/veh	9.9	0.0	0.0	6.7	0.0	1.9	50.9	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	63.4	0.0	0.0	60.5	0.0	54.8	105.8	0.0
1st-Term Q (Q1), veh/ln	3.8	0.0	0.0	3.0	0.0	2.3	4.3	0.0
2nd-Term Q (Q2), veh/ln	0.4	0.0	0.0	0.2	0.0	0.1	1.9	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	4.2	0.0	0.0	3.3	0.0	2.4	6.2	0.0
%ile Storage Ratio (RQ%)	0.72	0.00	0.00	0.46	0.00	0.34	0.78	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	6	0	0	8
Lane Assignment		T	T		T			T
Lanes in Grp	0	2	2	0	2	0	0	2
Grp Vol (v), veh/h	0	32	789	0	33	0	0	828
Grp Sat Flow (s), veh/h/ln	0	1641	1641	0	1641	0	0	1641
Q Serve Time (g_s), s	0.0	1.1	28.1	0.0	1.1	0.0	0.0	30.0
Cycle Q Clear Time (g_c), s	0.0	1.1	28.1	0.0	1.1	0.0	0.0	30.0
Lane Grp Cap (c), veh/h	0	317	855	0	347	0	0	848
V/C Ratio (X)	0.00	0.10	0.92	0.00	0.09	0.00	0.00	0.98
Avail Cap (c_a), veh/h	0	1340	903	0	1285	0	0	848
Upstream Filter (I)	0.00	0.99	1.00	0.00	1.00	0.00	0.00	0.73
Uniform Delay (d1), s/veh	0.0	49.5	43.2	0.0	48.5	0.0	0.0	44.1
Incr Delay (d2), s/veh	0.0	0.1	14.4	0.0	0.1	0.0	0.0	21.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	49.6	57.6	0.0	48.6	0.0	0.0	65.4
1st-Term Q (Q1), veh/ln	0.0	0.5	12.7	0.0	0.5	0.0	0.0	13.6
2nd-Term Q (Q2), veh/ln	0.0	0.0	1.7	0.0	0.0	0.0	0.0	2.5

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.5	14.4	0.0	0.5	0.0	0.0	16.1
%ile Storage Ratio (RQ%)	0.00	0.00	0.12	0.00	0.03	0.00	0.00	0.11
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	14	0	16	0	0	18
Lane Assignment		R	R		R			R
Lanes in Grp	0	2	1	0	1	0	0	1
Grp Vol (v), veh/h	0	607	57	0	818	0	0	67
Grp Sat Flow (s), veh/h/ln	0	1292	1468	0	1468	0	0	1468
Q Serve Time (g_s), s	0.0	5.4	3.6	0.0	5.8	0.0	0.0	4.3
Cycle Q Clear Time (g_c), s	0.0	5.4	3.6	0.0	5.8	0.0	0.0	4.3
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	250	382	0	155	0	0	379
V/C Ratio (X)	0.00	2.43	0.15	0.00	5.26	0.00	0.00	0.18
Avail Cap (c_a), veh/h	0	1055	404	0	575	0	0	379
Upstream Filter (I)	0.00	0.99	1.00	0.00	1.00	0.00	0.00	0.73
Uniform Delay (d1), s/veh	0.0	11.6	34.1	0.0	11.1	0.0	0.0	34.6
Incr Delay (d2), s/veh	0.0	648.5	0.2	0.0	1932.8	0.0	0.0	0.7
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	660.1	34.3	0.0	1943.9	0.0	0.0	35.3
1st-Term Q (Q1), veh/ln	0.0	1.9	1.5	0.0	2.3	0.0	0.0	1.7
2nd-Term Q (Q2), veh/ln	0.0	22.5	0.0	0.0	83.4	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	24.4	1.5	0.0	85.8	0.0	0.0	1.8
%ile Storage Ratio (RQ%)	0.00	1.81	0.24	0.00	21.84	0.00	0.00	0.24
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	89.4	0.0	0.0	165.6	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.6	0.0	0.0	1.3	0.0	0.0	0.0

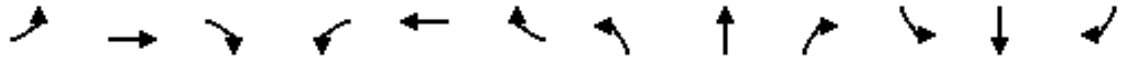
Intersection Summary	
HCM 2010 Ctrl Delay	531.7
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	241	726	52	171	762	62	135	29	558	217	30	753
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	262	789	57	186	828	67	147	32	607	236	33	818
Adj No. of Lanes	2	2	1	2	2	1	2	2	2	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	266	855	382	259	848	379	262	317	250	292	347	155
Arrive On Green	0.08	0.26	0.26	0.08	0.26	0.26	0.08	0.10	0.10	0.09	0.11	0.11
Sat Flow, veh/h	3191	3282	1468	3191	3282	1468	3191	3282	2584	3191	3282	1468
Grp Volume(v), veh/h	262	789	57	186	828	67	147	32	607	236	33	818
Grp Sat Flow(s),veh/h/ln	1596	1641	1468	1596	1641	1468	1596	1641	1292	1596	1641	1468
Q Serve(g_s), s	9.8	28.1	3.6	6.8	30.0	4.3	5.3	1.1	5.4	8.7	1.1	5.8
Cycle Q Clear(g_c), s	9.8	28.1	3.6	6.8	30.0	4.3	5.3	1.1	5.4	8.7	1.1	5.8
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	266	855	382	259	848	379	262	317	250	292	347	155
V/C Ratio(X)	0.99	0.92	0.15	0.72	0.98	0.18	0.56	0.10	2.43	0.81	0.09	5.26
Avail Cap(c_a), veh/h	266	903	404	259	848	379	426	1340	1055	372	1285	575
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.73	0.73	0.73	0.99	0.99	0.99	1.00	1.00	1.00
Uniform Delay (d), s/veh	54.9	43.2	34.1	53.8	44.1	34.6	53.0	49.5	11.6	53.5	48.5	11.1
Incr Delay (d2), s/veh	50.9	14.4	0.2	6.7	21.3	0.7	1.9	0.1	648.5	9.9	0.1	1932.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.2	14.4	1.5	3.3	16.1	1.8	2.4	0.5	24.4	4.2	0.5	85.8
LnGrp Delay(d),s/veh	105.8	57.6	34.3	60.5	65.4	35.3	54.8	49.6	660.1	63.4	48.6	1943.9
LnGrp LOS	F	E	C	E	E	D	D	D	F	E	D	F
Approach Vol, veh/h		1108			1081			786			1087	
Approach Delay, s/veh		67.8			62.7			522.1			1478.1	
Approach LOS		E			E			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	15.0	15.6	13.8	35.2	13.9	16.7	14.0	35.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	11.0	49.0	8.0	33.0	16.0	47.0	10.0	31.0
Max Q Clear Time (g_c+I1), s	10.7	7.4	8.8	30.1	7.3	7.8	11.8	32.0
Green Ext Time (p_c), s	0.3	4.1	0.0	1.2	2.6	4.9	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	531.7
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	214	361	98	141	701	85	111	1111	156	129	708	83
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	233	392	107	153	762	92	121	1208	170	140	770	90
Adj No. of Lanes	2	3	1	2	3	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	331	1097	342	209	917	285	1164	2392	745	195	961	299
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.10	0.23	0.23	0.07	0.19	0.19	0.36	0.51	0.51	0.06	0.20	0.20
Ln Grp Delay, s/veh	53.9	38.7	7.7	59.9	50.5	30.0	25.2	20.3	17.2	60.2	52.5	43.1
Ln Grp LOS	D	D	A	E	D	C	C	C	B	E	D	D
Approach Vol, veh/h		732			1007			1499			1000	
Approach Delay, s/veh		39.0			50.1			20.4			52.7	
Approach LOS		D			D			C			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	6	5	8	7
Case No	2.0	3.0	2.0	3.0	3.0	2.0	3.0	2.0
Phs Duration (G+Y+Rc), s	11.3	64.9	11.9	31.9	28.4	47.8	27.3	16.4
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	14.0	42.0	14.0	34.0	43.0	13.0	30.0	18.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	7.2	22.4	7.6	10.3	20.6	5.0	20.6	10.5
Green Ext Time (g_e), s	0.2	7.0	0.3	3.1	3.8	4.3	2.7	2.0
Prob of Phs Call (p_c)	0.99	1.00	0.99	1.00	1.00	0.98	1.00	1.00
Prob of Max Out (p_x)	0.08	0.14	0.14	0.00	0.01	0.61	0.24	0.35

Left-Turn Movement Data								
Assigned Mvmt	1		3			5		7
Mvmt Sat Flow, veh/h	3191		3191			3191		3191

Through Movement Data								
Assigned Mvmt		2		4	6		8	
Mvmt Sat Flow, veh/h		4715		4715	4715		4715	

Right-Turn Movement Data								
Assigned Mvmt		12		14	16		18	
Mvmt Sat Flow, veh/h		1468		1468	1468		1468	

Left Lane Group Data								
Assigned Mvmt	1	0	3	0	0	5	0	7
Lane Assignment	(Prot)		(Prot)			(Prot)		(Prot)
Lanes in Grp	2	0	2	0	0	2	0	2

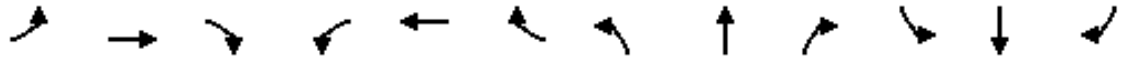
Grp Vol (v), veh/h	140	0	153	0	0	121	0	233
Grp Sat Flow (s), veh/h/ln	1596	0	1596	0	0	1596	0	1596
Q Serve Time (g_s), s	5.2	0.0	5.6	0.0	0.0	3.0	0.0	8.5
Cycle Q Clear Time (g_c), s	5.2	0.0	5.6	0.0	0.0	3.0	0.0	8.5
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	195	0	209	0	0	1164	0	331
V/C Ratio (X)	0.72	0.00	0.73	0.00	0.00	0.10	0.00	0.70
Avail Cap (c_a), veh/h	372	0	372	0	0	1164	0	479
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	0.68
Uniform Delay (d1), s/veh	55.3	0.0	55.0	0.0	0.0	25.2	0.0	52.0
Incr Delay (d2), s/veh	4.9	0.0	4.9	0.0	0.0	0.0	0.0	1.9
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	60.2	0.0	59.9	0.0	0.0	25.2	0.0	53.9
1st-Term Q (Q1), veh/ln	2.3	0.0	2.5	0.0	0.0	1.3	0.0	3.7
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	2.4	0.0	2.6	0.0	0.0	1.3	0.0	3.8
%ile Storage Ratio (RQ%)	0.36	0.00	0.42	0.00	0.00	0.20	0.00	0.55
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	6	0	8	0
Lane Assignment		T		T	T		T	
Lanes in Grp	0	3	0	3	3	0	3	0
Grp Vol (v), veh/h	0	1208	0	392	770	0	762	0
Grp Sat Flow (s), veh/h/ln	0	1572	0	1572	1572	0	1572	0
Q Serve Time (g_s), s	0.0	20.4	0.0	8.3	18.6	0.0	18.6	0.0
Cycle Q Clear Time (g_c), s	0.0	20.4	0.0	8.3	18.6	0.0	18.6	0.0
Lane Grp Cap (c), veh/h	0	2392	0	1097	961	0	917	0
V/C Ratio (X)	0.00	0.50	0.00	0.36	0.80	0.00	0.83	0.00
Avail Cap (c_a), veh/h	0	2392	0	1336	1690	0	1179	0
Upstream Filter (I)	0.00	1.00	0.00	0.68	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	19.6	0.0	38.5	45.5	0.0	46.4	0.0
Incr Delay (d2), s/veh	0.0	0.8	0.0	0.1	7.0	0.0	4.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	20.3	0.0	38.7	52.5	0.0	50.5	0.0
1st-Term Q (Q1), veh/ln	0.0	8.8	0.0	3.6	8.1	0.0	8.1	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.2	0.0	0.0	0.6	0.0	0.3	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	9.0	0.0	3.6	8.8	0.0	8.5	0.0
%ile Storage Ratio (RQ%)	0.00	0.05	0.00	0.03	0.08	0.00	0.17	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	16	0	18	0
Lane Assignment		R		R	R		R	
Lanes in Grp	0	1	0	1	1	0	1	0
Grp Vol (v), veh/h	0	170	0	107	90	0	92	0
Grp Sat Flow (s), veh/h/ln	0	1468	0	1468	1468	0	1468	0
Q Serve Time (g_s), s	0.0	7.7	0.0	3.2	6.2	0.0	5.4	0.0
Cycle Q Clear Time (g_c), s	0.0	7.7	0.0	3.2	6.2	0.0	5.4	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	745	0	342	299	0	285	0
V/C Ratio (X)	0.00	0.23	0.00	0.31	0.30	0.00	0.32	0.00
Avail Cap (c_a), veh/h	0	745	0	416	526	0	367	0
Upstream Filter (I)	0.00	1.00	0.00	0.68	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	16.5	0.0	7.3	40.5	0.0	29.4	0.0
Incr Delay (d2), s/veh	0.0	0.7	0.0	0.4	2.6	0.0	0.6	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	17.2	0.0	7.7	43.1	0.0	30.0	0.0
1st-Term Q (Q1), veh/ln	0.0	3.1	0.0	1.3	2.5	0.0	2.2	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.0	0.2	0.0	0.1	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	3.3	0.0	1.3	2.8	0.0	2.3	0.0
%ile Storage Ratio (RQ%)	0.00	0.47	0.00	0.19	0.40	0.00	0.41	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	38.3
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	214	361	98	141	701	85	111	1111	156	129	708	83
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	233	392	107	153	762	92	121	1208	170	140	770	90
Adj No. of Lanes	2	3	1	2	3	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	331	1097	342	209	917	285	1164	2392	745	195	961	299
Arrive On Green	0.10	0.23	0.23	0.07	0.19	0.19	0.36	0.51	0.51	0.06	0.20	0.20
Sat Flow, veh/h	3191	4715	1468	3191	4715	1468	3191	4715	1468	3191	4715	1468
Grp Volume(v), veh/h	233	392	107	153	762	92	121	1208	170	140	770	90
Grp Sat Flow(s),veh/h/ln	1596	1572	1468	1596	1572	1468	1596	1572	1468	1596	1572	1468
Q Serve(g_s), s	8.5	8.3	3.2	5.6	18.6	5.4	3.0	20.4	7.7	5.2	18.6	6.2
Cycle Q Clear(g_c), s	8.5	8.3	3.2	5.6	18.6	5.4	3.0	20.4	7.7	5.2	18.6	6.2
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	331	1097	342	209	917	285	1164	2392	745	195	961	299
V/C Ratio(X)	0.70	0.36	0.31	0.73	0.83	0.32	0.10	0.50	0.23	0.72	0.80	0.30
Avail Cap(c_a), veh/h	479	1336	416	372	1179	367	1164	2392	745	372	1690	526
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.68	0.68	0.68	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	52.0	38.5	7.3	55.0	46.4	29.4	25.2	19.6	16.5	55.3	45.5	40.5
Incr Delay (d2), s/veh	1.9	0.1	0.4	4.9	4.1	0.6	0.0	0.8	0.7	4.9	7.0	2.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.8	3.6	1.3	2.6	8.5	2.3	1.3	9.0	3.3	2.4	8.8	2.8
LnGrp Delay(d),s/veh	53.9	38.7	7.7	59.9	50.5	30.0	25.2	20.3	17.2	60.2	52.5	43.1
LnGrp LOS	D	D	A	E	D	C	C	C	B	E	D	D
Approach Vol, veh/h		732			1007			1499			1000	
Approach Delay, s/veh		39.0			50.1			20.4			52.7	
Approach LOS		D			D			C			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.3	64.9	11.9	31.9	47.8	28.4	16.4	27.3
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	14.0	42.0	14.0	34.0	13.0	43.0	18.0	30.0
Max Q Clear Time (g_c+I1), s	7.2	22.4	7.6	10.3	5.0	20.6	10.5	20.6
Green Ext Time (p_c), s	0.2	7.0	0.3	3.1	4.3	3.8	2.0	2.7

Intersection Summary	
HCM 2010 Ctrl Delay	38.3
HCM 2010 LOS	D

Intersection	
Int Delay, s/veh	0.1

Movement	NBL	NBT	NBR	SBL	SBT	SBR	SEL	SET	SER	NWL	NWT	NWR
Vol, veh/h	11	179	0	0	864	204	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	0
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	12	195	0	0	939	222	0	0	0	0	0	0

Major/Minor	Major1			Major2			Minor1		
Conflicting Flow All	1161	0	0	195	0	0	1268	1379	195
Stage 1	-	-	-	-	-	-	218	218	-
Stage 2	-	-	-	-	-	-	1050	1161	-
Critical Hdwy	4.2	-	-	4.2	-	-	6.5	6.6	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	5.5	5.6	-
Critical Hdwy Stg 2	-	-	-	-	-	-	5.5	5.6	-
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.59	4.09	3.39
Pot Cap-1 Maneuver	574	-	-	1331	-	-	179	139	826
Stage 1	-	-	-	-	-	-	800	708	-
Stage 2	-	-	-	-	-	-	325	260	-
Platoon blocked, %		-	-		-	-			
Mov Cap-1 Maneuver	574	-	-	1331	-	-	175	0	826
Mov Cap-2 Maneuver	-	-	-	-	-	-	175	0	-
Stage 1	-	-	-	-	-	-	782	0	-
Stage 2	-	-	-	-	-	-	325	0	-

Approach	NB	SB	NW
HCM Control Delay, s	0.7	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBL	NBT	NBR	NWLn1	NWLn2	SBL	SBT	SBR
Capacity (veh/h)	574	-	-	-	-	1331	-	-
HCM Lane V/C Ratio	0.021	-	-	-	-	-	-	-
HCM Control Delay (s)	11.4	0	-	0	0	0	-	-
HCM Lane LOS	B	A	-	A	A	A	-	-
HCM 95th %tile Q(veh)	0.1	-	-	-	-	0	-	-

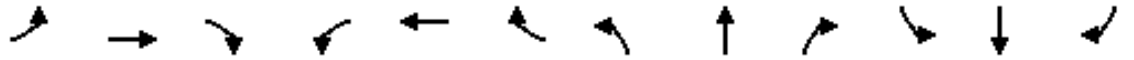
Intersection	
Int Delay, s/veh	1.2

Movement	WBL	WBR	NBL	NBT	NBR	SBL	SBT	SBR	SEL	SER
Vol, veh/h	0	0	0	482	0	227	1195	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	-	-	-	None	-	-	None	-	None
Storage Length	-	-	-	-	-	-	-	-	0	0
Veh in Median Storage, #	0	-	-	0	-	-	0	-	0	-
Grade, %	0	-	-	0	-	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	19	19	28	28	28	28	28	28	19	19
Mvmt Flow	0	0	0	524	0	247	1299	0	0	0

Major/Minor	Minor1		Major1			Major2			Minor2	
Conflicting Flow All	2316	524	1299	0	0	524	0	0	2316	1299
Stage 1	524	-	-	-	-	-	-	-	1792	-
Stage 2	1792	-	-	-	-	-	-	-	524	-
Critical Hdwy	7.29	6.39	4.38	-	-	4.38	-	-	7.29	6.39
Critical Hdwy Stg 1	6.29	-	-	-	-	-	-	-	6.29	-
Critical Hdwy Stg 2	6.29	-	-	-	-	-	-	-	6.29	-
Follow-up Hdwy	3.671	3.471	2.452	-	-	2.452	-	-	3.671	3.471
Pot Cap-1 Maneuver	23	521	455	-	-	923	-	-	23	181
Stage 1	507	-	-	-	-	-	-	-	93	-
Stage 2	93	-	-	-	-	-	-	-	507	-
Platoon blocked, %				-	-		-	-		
Mov Cap-1 Maneuver	3	521	455	-	-	923	-	-	3	181
Mov Cap-2 Maneuver	3	-	-	-	-	-	-	-	3	-
Stage 1	507	-	-	-	-	-	-	-	93	-
Stage 2	4	-	-	-	-	-	-	-	507	-

Approach	WB	NB	SB	SE
HCM Control Delay, s	0	0	1.6	0
HCM LOS	A			A

Minor Lane/Major Mvmt	NBL	NBT	NBR	WBLn1	SELn1	SELn2	SBL	SBT	SBR
Capacity (veh/h)	455	-	-	-	-	-	923	-	-
HCM Lane V/C Ratio	-	-	-	-	-	-	0.267	-	-
HCM Control Delay (s)	0	-	-	0	0	0	10.3	0	-
HCM Lane LOS	A	-	-	A	A	A	B	A	-
HCM 95th %tile Q(veh)	0	-	-	-	-	-	1.1	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	18	76	19	36	218	73	8	83	3	114	197	109
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	20	83	21	39	237	79	9	90	3	124	214	118
Adj No. of Lanes	2	2	0	1	2	1	2	2	1	2	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	52	218	53	49	317	142	28	151	68	2258	1287	1094
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.02	0.08	0.08	0.03	0.10	0.10	0.01	0.05	0.05	0.71	0.75	0.75
Ln Grp Delay, s/veh	63.1	53.7	54.0	65.0	53.6	52.6	65.8	72.2	45.5	5.3	4.7	2.1
Ln Grp LOS	E	D	D	E	D	D	E	E	D	A	A	A
Approach Vol, veh/h		124			355			102			456	
Approach Delay, s/veh		55.3			54.6			70.9			4.2	
Approach LOS		E			D			E			A	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	5	6	8	7
Case No	3.0	2.0	2.0	4.0	2.0	3.0	3.0	2.0
Phs Duration (G+Y+Rc), s	9.5	88.9	7.6	14.0	5.0	93.4	15.6	5.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	33.0	22.0	20.0	29.0	17.0	38.0	32.0	17.0
Max Allow Headway (MAH), s	4.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	5.2	3.4	4.8	5.7	2.3	6.3	10.4	2.7
Green Ext Time (g_e), s	0.3	1.6	0.1	0.4	0.0	1.7	1.2	0.3
Prob of Phs Call (p_c)	1.00	0.98	0.73	1.00	0.26	1.00	1.00	0.49
Prob of Max Out (p_x)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Left-Turn Movement Data								
Assigned Mvmt		1	3		5			7
Mvmt Sat Flow, veh/h		3191	1645		3191			3191

Through Movement Data								
Assigned Mvmt	2			4		6	8	
Mvmt Sat Flow, veh/h	3282			2615		1727	3282	

Right-Turn Movement Data								
Assigned Mvmt	12			14		16	18	
Mvmt Sat Flow, veh/h	1468			640		1468	1468	

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	5	0	0	7
Lane Assignment		(Prot)	(Prot)		(Prot)			(Prot)
Lanes in Grp	0	2	1	0	2	0	0	2

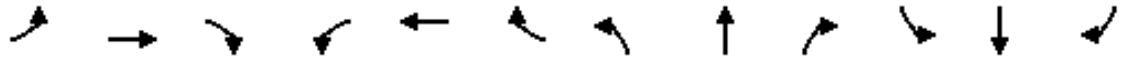
Grp Vol (v), veh/h	0	124	39	0	9	0	0	20
Grp Sat Flow (s), veh/h/ln	0	1596	1645	0	1596	0	0	1596
Q Serve Time (g_s), s	0.0	1.4	2.8	0.0	0.3	0.0	0.0	0.7
Cycle Q Clear Time (g_c), s	0.0	1.4	2.8	0.0	0.3	0.0	0.0	0.7
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	2258	49	0	28	0	0	52
V/C Ratio (X)	0.00	0.05	0.80	0.00	0.33	0.00	0.00	0.39
Avail Cap (c_a), veh/h	0	2258	274	0	452	0	0	452
Upstream Filter (I)	0.00	0.86	0.24	0.00	1.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	5.3	57.9	0.0	59.1	0.0	0.0	58.4
Incr Delay (d2), s/veh	0.0	0.0	7.2	0.0	6.7	0.0	0.0	4.7
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	5.3	65.0	0.0	65.8	0.0	0.0	63.1
1st-Term Q (Q1), veh/ln	0.0	0.6	1.3	0.0	0.1	0.0	0.0	0.3
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.6	1.4	0.0	0.2	0.0	0.0	0.4
%ile Storage Ratio (RQ%)	0.00	0.08	0.18	0.00	0.02	0.00	0.00	0.07
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	0	6	8	0
Lane Assignment	T			T		T	T	
Lanes in Grp	2	0	0	1	0	1	2	0
Grp Vol (v), veh/h	90	0	0	51	0	214	237	0
Grp Sat Flow (s), veh/h/ln	1641	0	0	1641	0	1727	1641	0
Q Serve Time (g_s), s	3.2	0.0	0.0	3.5	0.0	4.3	8.4	0.0
Cycle Q Clear Time (g_c), s	3.2	0.0	0.0	3.5	0.0	4.3	8.4	0.0
Lane Grp Cap (c), veh/h	151	0	0	137	0	1287	317	0
V/C Ratio (X)	0.59	0.00	0.00	0.37	0.00	0.17	0.75	0.00
Avail Cap (c_a), veh/h	903	0	0	397	0	1287	875	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	0.86	0.24	0.00
Uniform Delay (d1), s/veh	56.1	0.0	0.0	52.0	0.0	4.5	52.8	0.0
Incr Delay (d2), s/veh	16.1	0.0	0.0	1.7	0.0	0.2	0.9	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	72.2	0.0	0.0	53.7	0.0	4.7	53.6	0.0
1st-Term Q (Q1), veh/ln	1.5	0.0	0.0	1.6	0.0	2.0	3.8	0.0
2nd-Term Q (Q2), veh/ln	0.3	0.0	0.0	0.1	0.0	0.1	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	1.8	0.0	0.0	1.7	0.0	2.1	3.9	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	0	14	0	16	18	0
Lane Assignment	R			T+R		R	R	
Lanes in Grp	1	0	0	1	0	1	1	0
Grp Vol (v), veh/h	3	0	0	53	0	118	79	0
Grp Sat Flow (s), veh/h/ln	1468	0	0	1614	0	1468	1468	0
Q Serve Time (g_s), s	0.2	0.0	0.0	3.7	0.0	1.8	6.2	0.0
Cycle Q Clear Time (g_c), s	0.2	0.0	0.0	3.7	0.0	1.8	6.2	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	0.40	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	68	0	0	135	0	1094	142	0
V/C Ratio (X)	0.04	0.00	0.00	0.39	0.00	0.11	0.56	0.00
Avail Cap (c_a), veh/h	404	0	0	390	0	1094	392	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	0.86	0.24	0.00
Uniform Delay (d1), s/veh	44.2	0.0	0.0	52.1	0.0	1.9	51.7	0.0
Incr Delay (d2), s/veh	1.2	0.0	0.0	1.9	0.0	0.2	0.8	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	45.5	0.0	0.0	54.0	0.0	2.1	52.6	0.0
1st-Term Q (Q1), veh/ln	0.1	0.0	0.0	1.7	0.0	0.7	2.5	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.1	0.0	0.0	1.7	0.0	0.8	2.5	0.0
%ile Storage Ratio (RQ%)	0.02	0.00	0.00	0.00	0.00	0.11	0.33	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

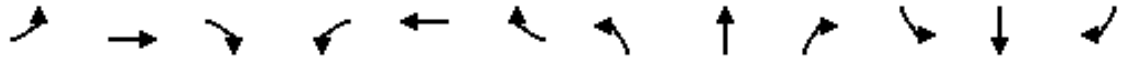
Intersection Summary	
HCM 2010 Ctrl Delay	34.1
HCM 2010 LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	18	76	19	36	218	73	8	83	3	114	197	109
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	20	83	21	39	237	79	9	90	3	124	214	118
Adj No. of Lanes	2	2	0	1	2	1	2	2	1	2	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	52	218	53	49	317	142	28	151	68	2258	1287	1094
Arrive On Green	0.02	0.08	0.08	0.03	0.10	0.10	0.01	0.05	0.05	0.71	0.75	0.75
Sat Flow, veh/h	3191	2615	640	1645	3282	1468	3191	3282	1468	3191	1727	1468
Grp Volume(v), veh/h	20	51	53	39	237	79	9	90	3	124	214	118
Grp Sat Flow(s),veh/h/ln	1596	1641	1614	1645	1641	1468	1596	1641	1468	1596	1727	1468
Q Serve(g_s), s	0.7	3.5	3.7	2.8	8.4	6.2	0.3	3.2	0.2	1.4	4.3	1.8
Cycle Q Clear(g_c), s	0.7	3.5	3.7	2.8	8.4	6.2	0.3	3.2	0.2	1.4	4.3	1.8
Prop In Lane	1.00		0.40	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	52	137	135	49	317	142	28	151	68	2258	1287	1094
V/C Ratio(X)	0.39	0.37	0.39	0.80	0.75	0.56	0.33	0.59	0.04	0.05	0.17	0.11
Avail Cap(c_a), veh/h	452	397	390	274	875	392	452	903	404	2258	1287	1094
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.24	0.24	0.24	1.00	1.00	1.00	0.86	0.86	0.86
Uniform Delay (d), s/veh	58.4	52.0	52.1	57.9	52.8	51.7	59.1	56.1	44.2	5.3	4.5	1.9
Incr Delay (d2), s/veh	4.7	1.7	1.9	7.2	0.9	0.8	6.7	16.1	1.2	0.0	0.2	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	1.7	1.7	1.4	3.9	2.5	0.2	1.8	0.1	0.6	2.1	0.8
LnGrp Delay(d),s/veh	63.1	53.7	54.0	65.0	53.6	52.6	65.8	72.2	45.5	5.3	4.7	2.1
LnGrp LOS	E	D	D	E	D	D	E	E	D	A	A	A
Approach Vol, veh/h		124			355			102			456	
Approach Delay, s/veh		55.3			54.6			70.9			4.2	
Approach LOS		E			D			E			A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.9	9.5	7.6	14.0	5.0	93.4	5.9	15.6
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	22.0	33.0	20.0	29.0	17.0	38.0	17.0	32.0
Max Q Clear Time (g_c+I1), s	3.4	5.2	4.8	5.7	2.3	6.3	2.7	10.4
Green Ext Time (p_c), s	1.6	0.3	0.1	0.4	0.0	1.7	0.3	1.2

Intersection Summary	
HCM 2010 Ctrl Delay	34.1
HCM 2010 LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	93	349	147	316	452	79	46	357	126	67	645	19
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	101	379	160	343	491	86	50	388	137	73	701	21
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	150	317	134	288	514	90	55	409	144	135	640	19
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.09	0.28	0.28	0.18	0.36	0.36	0.03	0.33	0.33	0.08	0.38	0.38
Ln Grp Delay, s/veh	63.8	0.0	150.4	157.5	0.0	56.7	147.5	0.0	66.5	57.3	0.0	101.2
Ln Grp LOS	E		F	F		E	F		E	E		F
Approach Vol, veh/h		640			920			575			795	
Approach Delay, s/veh		136.7			94.3			73.6			97.2	
Approach LOS		F			F			E			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	6	5	8	7
Case No	4.0	2.0	4.0	2.0	4.0	2.0	4.0	2.0
Phs Duration (G+Y+Rc), s	44.2	13.8	37.0	25.0	50.0	8.0	47.1	14.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	44.0	6.0	33.0	21.0	46.0	4.0	46.0	8.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.0	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	39.2	7.1	35.0	23.0	48.0	5.6	42.1	9.1
Green Ext Time (g_e), s	1.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0
Prob of Phs Call (p_c)	1.00	0.91	1.00	1.00	1.00	0.81	1.00	0.97
Prob of Max Out (p_x)	0.78	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt		1		3		5		7
Mvmt Sat Flow, veh/h		1645		1645		1645		1645

Through Movement Data								
Assigned Mvmt	2		4		6		8	
Mvmt Sat Flow, veh/h	1220		1154		1668		1432	

Right-Turn Movement Data								
Assigned Mvmt	12		14		16		18	
Mvmt Sat Flow, veh/h	431		487		50		251	

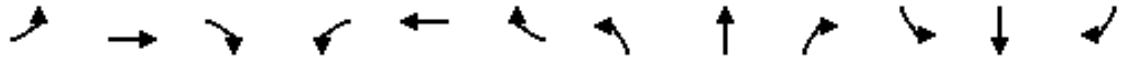
Left Lane Group Data								
Assigned Mvmt	0	1	0	3	0	5	0	7
Lane Assignment		(Prot)		(Prot)		(Prot)		(Prot)
Lanes in Grp	0	1	0	1	0	1	0	1

Grp Vol (v), veh/h	0	73	0	343	0	50	0	101
Grp Sat Flow (s), veh/h/ln	0	1645	0	1645	0	1645	0	1645
Q Serve Time (g_s), s	0.0	5.1	0.0	21.0	0.0	3.6	0.0	7.1
Cycle Q Clear Time (g_c), s	0.0	5.1	0.0	21.0	0.0	3.6	0.0	7.1
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	135	0	288	0	55	0	150
V/C Ratio (X)	0.00	0.54	0.00	1.19	0.00	0.91	0.00	0.67
Avail Cap (c_a), veh/h	0	135	0	288	0	55	0	150
Upstream Filter (I)	0.00	1.00	0.00	0.70	0.00	1.00	0.00	0.97
Uniform Delay (d1), s/veh	0.0	52.9	0.0	49.5	0.0	57.8	0.0	52.8
Incr Delay (d2), s/veh	0.0	4.4	0.0	108.0	0.0	89.7	0.0	11.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	57.3	0.0	157.5	0.0	147.5	0.0	63.8
1st-Term Q (Q1), veh/ln	0.0	2.3	0.0	9.5	0.0	1.7	0.0	3.3
2nd-Term Q (Q2), veh/ln	0.0	0.2	0.0	8.6	0.0	1.4	0.0	0.5
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	2.5	0.0	18.2	0.0	3.0	0.0	3.7
%ile Storage Ratio (RQ%)	0.00	0.50	0.00	3.58	0.00	0.59	0.00	0.74
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	13.8	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	6	0	8	0
Lane Assignment								
Lanes in Grp	0	0	0	0	0	0	0	0
Grp Vol (v), veh/h	0	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	16	0	18	0
Lane Assignment	T+R		T+R		T+R		T+R	
Lanes in Grp	1	0	1	0	1	0	1	0
Grp Vol (v), veh/h	525	0	539	0	722	0	577	0
Grp Sat Flow (s), veh/h/ln	1651	0	1641	0	1718	0	1683	0
Q Serve Time (g_s), s	37.2	0.0	33.0	0.0	46.0	0.0	40.1	0.0
Cycle Q Clear Time (g_c), s	37.2	0.0	33.0	0.0	46.0	0.0	40.1	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.26	0.00	0.30	0.00	0.03	0.00	0.15	0.00
Lane Grp Cap (c), veh/h	553	0	451	0	659	0	604	0
V/C Ratio (X)	0.95	0.00	1.19	0.00	1.10	0.00	0.96	0.00
Avail Cap (c_a), veh/h	605	0	451	0	659	0	645	0
Upstream Filter (I)	1.00	0.00	0.97	0.00	1.00	0.00	0.70	0.00
Uniform Delay (d1), s/veh	38.9	0.0	43.5	0.0	37.0	0.0	37.5	0.0
Incr Delay (d2), s/veh	27.6	0.0	106.9	0.0	64.2	0.0	19.2	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	66.5	0.0	150.4	0.0	101.2	0.0	56.7	0.0
1st-Term Q (Q1), veh/ln	16.9	0.0	14.9	0.0	21.8	0.0	18.6	0.0
2nd-Term Q (Q2), veh/ln	4.2	0.0	13.4	0.0	11.7	0.0	3.2	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	21.2	0.0	28.3	0.0	33.5	0.0	21.8	0.0
%ile Storage Ratio (RQ%)	0.05	0.00	0.14	0.00	0.09	0.00	0.11	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	21.9	0.0	15.8	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	100.3
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	93	349	147	316	452	79	46	357	126	67	645	19
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	101	379	160	343	491	86	50	388	137	73	701	21
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	150	317	134	288	514	90	55	409	144	135	640	19
Arrive On Green	0.09	0.28	0.28	0.18	0.36	0.36	0.03	0.33	0.33	0.08	0.38	0.38
Sat Flow, veh/h	1645	1154	487	1645	1432	251	1645	1220	431	1645	1668	50
Grp Volume(v), veh/h	101	0	539	343	0	577	50	0	525	73	0	722
Grp Sat Flow(s),veh/h/ln	1645	0	1641	1645	0	1683	1645	0	1651	1645	0	1718
Q Serve(g_s), s	7.1	0.0	33.0	21.0	0.0	40.1	3.6	0.0	37.2	5.1	0.0	46.0
Cycle Q Clear(g_c), s	7.1	0.0	33.0	21.0	0.0	40.1	3.6	0.0	37.2	5.1	0.0	46.0
Prop In Lane	1.00		0.30	1.00		0.15	1.00		0.26	1.00		0.03
Lane Grp Cap(c), veh/h	150	0	451	288	0	604	55	0	553	135	0	659
V/C Ratio(X)	0.67	0.00	1.19	1.19	0.00	0.96	0.91	0.00	0.95	0.54	0.00	1.10
Avail Cap(c_a), veh/h	150	0	451	288	0	645	55	0	605	135	0	659
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.97	0.00	0.97	0.70	0.00	0.70	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	52.8	0.0	43.5	49.5	0.0	37.5	57.8	0.0	38.9	52.9	0.0	37.0
Incr Delay (d2), s/veh	11.0	0.0	106.9	108.0	0.0	19.2	89.7	0.0	27.6	4.4	0.0	64.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.7	0.0	28.3	18.2	0.0	21.8	3.0	0.0	21.2	2.5	0.0	33.5
LnGrp Delay(d),s/veh	63.8	0.0	150.4	157.5	0.0	56.7	147.5	0.0	66.5	57.3	0.0	101.2
LnGrp LOS	E		F	F		E	F		E	E		F
Approach Vol, veh/h		640			920			575			795	
Approach Delay, s/veh		136.7			94.3			73.6			97.2	
Approach LOS		F			F			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.8	44.2	25.0	37.0	8.0	50.0	14.9	47.1
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	6.0	44.0	21.0	33.0	4.0	46.0	8.0	46.0
Max Q Clear Time (g_c+I1), s	7.1	39.2	23.0	35.0	5.6	48.0	9.1	42.1
Green Ext Time (p_c), s	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.9

Intersection Summary	
HCM 2010 Ctrl Delay	100.3
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	64	494	29	19	442	452	14	199	27	346	159	73
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1900	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	70	537	32	21	480	491	15	216	29	376	173	79
Adj No. of Lanes	1	1	0	1	1	1	0	1	0	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	151	646	38	139	691	588	60	758	99	585	921	783
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.40	0.40	0.40	0.40	0.40	0.40	0.53	0.53	0.53	0.53	0.53	0.53
Ln Grp Delay, s/veh	47.8	0.0	33.1	50.3	32.7	42.0	16.2	0.0	0.0	25.7	14.8	13.9
Ln Grp LOS	D		C	D	C	D	B			C	B	B
Approach Vol, veh/h		639			992			260			628	
Approach Delay, s/veh		34.7			37.6			16.2			21.2	
Approach LOS		C			D			B			C	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Case No		8.0		6.0		5.0		5.0
Phs Duration (G+Y+Rc), s		68.0		52.0		68.0		52.0
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green (Gmax), s		62.0		50.0		62.0		50.0
Max Allow Headway (MAH), s		4.5		4.3		4.5		4.3
Max Q Clear (g_c+I1), s		12.2		44.7		39.4		40.9
Green Ext Time (g_e), s		4.3		3.3		4.0		5.0
Prob of Phs Call (p_c)		1.00		1.00		1.00		1.00
Prob of Max Out (p_x)		0.00		0.92		0.03		0.68

Left-Turn Movement Data								
Assigned Mvmt		5		7		1		3
Mvmt Sat Flow, veh/h		53		535		1048		778

Through Movement Data								
Assigned Mvmt		2		4		6		8
Mvmt Sat Flow, veh/h		1421		1614		1727		1727

Right-Turn Movement Data								
Assigned Mvmt		12		14		16		18
Mvmt Sat Flow, veh/h		185		96		1468		1468

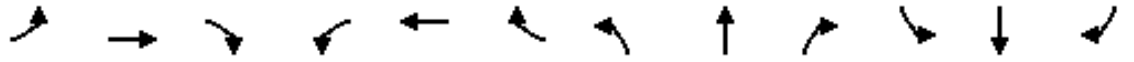
Left Lane Group Data								
Assigned Mvmt	0	5	0	7	0	1	0	3
Lane Assignment		L+T+R						
Lanes in Grp	0	1	0	1	0	1	0	1

Grp Vol (v), veh/h	0	260	0	70	0	376	0	21
Grp Sat Flow (s), veh/h/ln	0	1660	0	535	0	1048	0	778
Q Serve Time (g_s), s	0.0	0.0	0.0	15.0	0.0	27.3	0.0	3.0
Cycle Q Clear Time (g_c), s	0.0	10.2	0.0	42.7	0.0	37.4	0.0	38.9
Perm LT Sat Flow (s_l), veh/h/ln	0	1146	0	535	0	1048	0	778
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	645	0	0
Perm LT Eff Green (g_p), s	0.0	64.0	0.0	48.0	0.0	64.0	0.0	48.0
Perm LT Serve Time (g_u), s	0.0	57.7	0.0	20.3	0.0	53.8	0.0	12.1
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	15.0	0.0	27.3	0.0	3.0
Time to First Blk (g_f), s	0.0	27.8	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	10.2	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.06	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	916	0	151	0	585	0	139
V/C Ratio (X)	0.00	0.28	0.00	0.46	0.00	0.64	0.00	0.15
Avail Cap (c_a), veh/h	0	916	0	159	0	585	0	152
Upstream Filter (I)	0.00	0.97	0.00	0.09	0.00	0.48	0.00	1.00
Uniform Delay (d1), s/veh	0.0	15.5	0.0	47.6	0.0	23.1	0.0	49.8
Incr Delay (d2), s/veh	0.0	0.8	0.0	0.2	0.0	2.6	0.0	0.5
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	16.2	0.0	47.8	0.0	25.7	0.0	50.3
1st-Term Q (Q1), veh/ln	0.0	4.8	0.0	2.2	0.0	9.6	0.0	0.6
2nd-Term Q (Q2), veh/ln	0.0	0.2	0.0	0.0	0.0	0.4	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	5.0	0.0	2.2	0.0	10.0	0.0	0.7
%ile Storage Ratio (RQ%)	0.00	0.01	0.00	0.35	0.00	1.47	0.00	0.11
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	0	8
Lane Assignment						T		T
Lanes in Grp	0	0	0	0	0	1	0	1
Grp Vol (v), veh/h	0	0	0	0	0	173	0	480
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	1727	0	1727
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	6.2	0.0	27.7
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	6.2	0.0	27.7
Lane Grp Cap (c), veh/h	0	0	0	0	0	921	0	691
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.69
Avail Cap (c_a), veh/h	0	0	0	0	0	921	0	720
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.48	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	14.5	0.0	29.9
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.2	0.0	2.8
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	14.8	0.0	32.7
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	3.0	0.0	13.2
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.5

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	3.0	0.0	13.7
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	0	18
Lane Assignment				T+R		R		R
Lanes in Grp	0	0	0	1	0	1	0	1
Grp Vol (v), veh/h	0	0	0	569	0	79	0	491
Grp Sat Flow (s), veh/h/ln	0	0	0	1710	0	1468	0	1468
Q Serve Time (g_s), s	0.0	0.0	0.0	35.9	0.0	3.2	0.0	36.2
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	35.9	0.0	3.2	0.0	36.2
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.11	0.00	0.06	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	0	0	685	0	783	0	588
V/C Ratio (X)	0.00	0.00	0.00	0.83	0.00	0.10	0.00	0.84
Avail Cap (c_a), veh/h	0	0	0	713	0	783	0	612
Upstream Filter (I)	0.00	0.00	0.00	0.09	0.00	0.48	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	32.3	0.0	13.8	0.0	32.4
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.8	0.0	0.1	0.0	9.5
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	33.1	0.0	13.9	0.0	42.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	16.9	0.0	1.3	0.0	14.6
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.6
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	17.1	0.0	1.3	0.0	16.1
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.09	0.00	0.11	0.00	1.34
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	30.6
HCM 2010 LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	64	494	29	19	442	452	14	199	27	346	159	73
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1900	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	70	537	32	21	480	491	15	216	29	376	173	79
Adj No. of Lanes	1	1	0	1	1	1	0	1	0	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	151	646	38	139	691	588	60	758	99	585	921	783
Arrive On Green	0.40	0.40	0.40	0.40	0.40	0.40	0.53	0.53	0.53	0.53	0.53	0.53
Sat Flow, veh/h	535	1614	96	778	1727	1468	53	1421	185	1048	1727	1468
Grp Volume(v), veh/h	70	0	569	21	480	491	260	0	0	376	173	79
Grp Sat Flow(s),veh/h/ln	535	0	1710	778	1727	1468	1660	0	0	1048	1727	1468
Q Serve(g_s), s	15.0	0.0	35.9	3.0	27.7	36.2	0.0	0.0	0.0	27.3	6.2	3.2
Cycle Q Clear(g_c), s	42.7	0.0	35.9	38.9	27.7	36.2	10.2	0.0	0.0	37.4	6.2	3.2
Prop In Lane	1.00		0.06	1.00		1.00	0.06		0.11	1.00		1.00
Lane Grp Cap(c), veh/h	151	0	685	139	691	588	916	0	0	585	921	783
V/C Ratio(X)	0.46	0.00	0.83	0.15	0.69	0.84	0.28	0.00	0.00	0.64	0.19	0.10
Avail Cap(c_a), veh/h	159	0	713	152	720	612	916	0	0	585	921	783
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.09	0.00	0.09	1.00	1.00	1.00	0.97	0.00	0.00	0.48	0.48	0.48
Uniform Delay (d), s/veh	47.6	0.0	32.3	49.8	29.9	32.4	15.5	0.0	0.0	23.1	14.5	13.8
Incr Delay (d2), s/veh	0.2	0.0	0.8	0.5	2.8	9.5	0.8	0.0	0.0	2.6	0.2	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.2	0.0	17.1	0.7	13.7	16.1	5.0	0.0	0.0	10.0	3.0	1.3
LnGrp Delay(d),s/veh	47.8	0.0	33.1	50.3	32.7	42.0	16.2	0.0	0.0	25.7	14.8	13.9
LnGrp LOS	D		C	D	C	D	B			C	B	B
Approach Vol, veh/h		639			992			260			628	
Approach Delay, s/veh		34.7			37.6			16.2			21.2	
Approach LOS		C			D			B			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Phs Duration (G+Y+Rc), s		68.0		52.0		68.0		52.0
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green Setting (Gmax), s		62.0		50.0		62.0		50.0
Max Q Clear Time (g_c+I1), s		12.2		44.7		39.4		40.9
Green Ext Time (p_c), s		4.3		3.3		4.0		5.0

Intersection Summary	
HCM 2010 Ctrl Delay	30.6
HCM 2010 LOS	C

Intersection	
Int Delay, s/veh	1.6

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	0	147	1267	0	15	39
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	19	19	19	19	10	10
Mvmt Flow	0	160	1377	0	16	42

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	1377	0	-	0	1537	1377
Stage 1	-	-	-	-	1377	-
Stage 2	-	-	-	-	160	-
Critical Hdwy	4.29	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.371	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	448	-	-	-	122	170
Stage 1	-	-	-	-	225	-
Stage 2	-	-	-	-	850	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	448	-	-	-	122	170
Mov Cap-2 Maneuver	-	-	-	-	122	-
Stage 1	-	-	-	-	225	-
Stage 2	-	-	-	-	850	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	42.5
HCM LOS			E

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	448	-	-	-	153
HCM Lane V/C Ratio	-	-	-	-	0.384
HCM Control Delay (s)	0	-	-	-	42.5
HCM Lane LOS	A	-	-	-	E
HCM 95th %tile Q(veh)	0	-	-	-	1.6

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	WBT	WBR	SEL	SER
Vol, veh/h	0	944	363	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	19	19	19	19	10	10
Mvmt Flow	0	1026	395	0	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	395	0	-	0	1421	395
Stage 1	-	-	-	-	395	-
Stage 2	-	-	-	-	1026	-
Critical Hdwy	4.29	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.371	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1077	-	-	-	144	637
Stage 1	-	-	-	-	664	-
Stage 2	-	-	-	-	334	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1077	-	-	-	144	637
Mov Cap-2 Maneuver	-	-	-	-	144	-
Stage 1	-	-	-	-	664	-
Stage 2	-	-	-	-	334	-

Approach	EB	WB	SE
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SELn1
Capacity (veh/h)	1077	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	-	-	0
HCM Lane LOS	A	-	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	-

Intersection	
Int Delay, s/veh	24.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	34	279	3	14	571	116	3	0	3	144	2	76
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	492	-	-	499	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	22	22	22	22	22	22	10	10	10	10	10	10
Mvmt Flow	37	303	3	15	621	126	3	0	3	157	2	83

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	747	0	0	307	0	0	1136	1156	305	1094	1094	684
Stage 1	-	-	-	-	-	-	379	379	-	714	714	-
Stage 2	-	-	-	-	-	-	757	777	-	380	380	-
Critical Hdwy	4.32	-	-	4.32	-	-	7.2	6.6	6.3	7.2	6.6	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Follow-up Hdwy	2.398	-	-	2.398	-	-	3.59	4.09	3.39	3.59	4.09	3.39
Pot Cap-1 Maneuver	778	-	-	1148	-	-	173	190	716	185	207	435
Stage 1	-	-	-	-	-	-	627	601	-	410	423	-
Stage 2	-	-	-	-	-	-	388	396	-	626	600	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	778	-	-	1148	-	-	133	179	716	176	195	435
Mov Cap-2 Maneuver	-	-	-	-	-	-	133	179	-	176	195	-
Stage 1	-	-	-	-	-	-	597	572	-	391	417	-
Stage 2	-	-	-	-	-	-	309	391	-	594	571	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	1.1	0.2	21.6	133.8
HCM LOS			C	F

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	224	778	-	-	1148	-	-	221
HCM Lane V/C Ratio	0.029	0.048	-	-	0.013	-	-	1.092
HCM Control Delay (s)	21.6	9.9	-	-	8.2	-	-	133.8
HCM Lane LOS	C	A	-	-	A	-	-	F
HCM 95th %tile Q(veh)	0.1	0.1	-	-	0	-	-	10.9

Intersection	
Int Delay, s/veh	23.6

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	14	503	729	184	145	22
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	104	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	23	23	23	23	10	10
Mvmt Flow	15	547	792	200	158	24

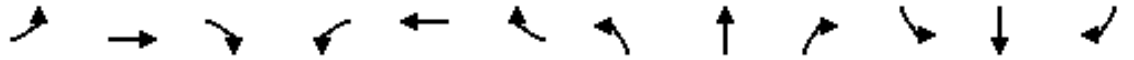
Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	992	0	-	0	1469	892
Stage 1	-	-	-	-	892	-
Stage 2	-	-	-	-	577	-
Critical Hdwy	4.33	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.407	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	620	-	-	-	~ 135	330
Stage 1	-	-	-	-	388	-
Stage 2	-	-	-	-	546	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	620	-	-	-	~ 132	330
Mov Cap-2 Maneuver	-	-	-	-	~ 132	-
Stage 1	-	-	-	-	388	-
Stage 2	-	-	-	-	533	-

Approach	EB	WB	SB
HCM Control Delay, s	0.3	0	225.2
HCM LOS			F

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	620	-	-	-	143
HCM Lane V/C Ratio	0.025	-	-	-	1.269
HCM Control Delay (s)	11	-	-	-	225.2
HCM Lane LOS	B	-	-	-	F
HCM 95th %tile Q(veh)	0.1	-	-	-	11

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	37	395	18	5	695	69	27	49	9	45	79	105
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1624	1624	1900	1624	1624	1624	1900	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	40	429	20	5	755	75	29	53	10	49	86	114
Adj No. of Lanes	1	1	0	1	1	1	0	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	17	17	17	17	17	17	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	126	1041	49	8	974	828	108	170	27	88	112	129
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.08	0.68	0.68	0.01	0.60	0.60	0.19	0.19	0.19	0.19	0.19	0.19
Ln Grp Delay, s/veh	40.4	0.0	7.7	103.0	19.5	7.8	32.1	0.0	0.0	43.3	0.0	0.0
Ln Grp LOS	D		A	F	B	A	C			D		
Approach Vol, veh/h		489			835			92			249	
Approach Delay, s/veh		10.4			18.9			32.1			43.3	
Approach LOS		B			B			C			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6	8	7
Case No		8.0	2.0	4.0		8.0	3.0	2.0
Phs Duration (G+Y+Rc), s		20.7	4.5	64.8		20.7	58.0	11.3
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0	4.0	4.0
Max Green (Gmax), s		19.0	4.0	55.0		19.0	54.0	5.0
Max Allow Headway (MAH), s		4.2	4.1	4.1		4.2	4.1	4.1
Max Q Clear (g_c+I1), s		6.2	2.3	13.3		16.3	33.3	4.2
Green Ext Time (g_e), s		1.0	0.0	1.9		0.3	3.5	0.0
Prob of Phs Call (p_c)		1.00	0.12	1.00		1.00	1.00	0.63
Prob of Max Out (p_x)		0.01	1.00	0.00		1.00	0.00	1.00

Left-Turn Movement Data								
Assigned Mvmt		5	3			1		7
Mvmt Sat Flow, veh/h		297	1547			218		1547

Through Movement Data								
Assigned Mvmt		2		4		6	8	
Mvmt Sat Flow, veh/h		919		1539		605	1624	

Right-Turn Movement Data								
Assigned Mvmt		12		14		16	18	
Mvmt Sat Flow, veh/h		148		72		695	1380	

Left Lane Group Data								
Assigned Mvmt	0	5	3	0	0	1	0	7
Lane Assignment		L+T+R	(Prot)			L+T+R		(Prot)
Lanes in Grp	0	1	1	0	0	1	0	1

Grp Vol (v), veh/h	0	92	5	0	0	249	0	40
Grp Sat Flow (s), veh/h/ln	0	1364	1547	0	0	1518	0	1547
Q Serve Time (g_s), s	0.0	0.0	0.3	0.0	0.0	10.1	0.0	2.2
Cycle Q Clear Time (g_c), s	0.0	4.2	0.3	0.0	0.0	14.3	0.0	2.2
Perm LT Sat Flow (s_l), veh/h/ln	0	1201	0	0	0	1360	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	1213	0	0	0	1710	0	0
Perm LT Eff Green (g_p), s	0.0	16.7	0.0	0.0	0.0	16.7	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	2.3	0.0	0.0	0.0	12.5	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	10.1	0.0	0.0
Time to First Blk (g_f), s	0.0	4.2	0.0	0.0	0.0	4.3	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	4.2	0.0	0.0	0.0	4.3	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.32	1.00	0.00	0.00	0.20	0.00	1.00
Lane Grp Cap (c), veh/h	0	306	8	0	0	329	0	126
V/C Ratio (X)	0.00	0.30	0.62	0.00	0.00	0.76	0.00	0.32
Avail Cap (c_a), veh/h	0	343	69	0	0	368	0	126
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	0.99	0.00	1.00
Uniform Delay (d1), s/veh	0.0	31.6	44.7	0.0	0.0	35.6	0.0	39.0
Incr Delay (d2), s/veh	0.0	0.5	58.4	0.0	0.0	7.7	0.0	1.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	32.1	103.0	0.0	0.0	43.3	0.0	40.4
1st-Term Q (Q1), veh/ln	0.0	2.0	0.1	0.0	0.0	6.0	0.0	0.9
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.1	0.0	0.0	0.7	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	2.0	0.3	0.0	0.0	6.7	0.0	1.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.02	0.00	0.00	0.02	0.00	0.07
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	8	0
Lane Assignment							T	
Lanes in Grp	0	0	0	0	0	0	1	0
Grp Vol (v), veh/h	0	0	0	0	0	0	755	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	1624	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	31.3	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	31.3	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	974	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.77	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	0	974	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	13.5	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	19.5	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	13.8	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	15.5	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	18	0
Lane Assignment				T+R			R	
Lanes in Grp	0	0	0	1	0	0	1	0
Grp Vol (v), veh/h	0	0	0	449	0	0	75	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1611	0	0	1380	0
Q Serve Time (g_s), s	0.0	0.0	0.0	11.3	0.0	0.0	2.1	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	11.3	0.0	0.0	2.1	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.11	0.00	0.04	0.00	0.46	1.00	0.00
Lane Grp Cap (c), veh/h	0	0	0	1089	0	0	828	0
V/C Ratio (X)	0.00	0.00	0.00	0.41	0.00	0.00	0.09	0.00
Avail Cap (c_a), veh/h	0	0	0	1089	0	0	828	0
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	6.5	0.0	0.0	7.6	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	1.2	0.0	0.0	0.2	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	7.7	0.0	0.0	7.8	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	5.0	0.0	0.0	0.8	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	5.3	0.0	0.0	0.8	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.03	0.00	0.00	0.04	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	20.8
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	37	395	18	5	695	69	27	49	9	45	79	105
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1624	1624	1900	1624	1624	1624	1900	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	40	429	20	5	755	75	29	53	10	49	86	114
Adj No. of Lanes	1	1	0	1	1	1	0	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	17	17	17	17	17	17	10	10	10	10	10	10
Cap, veh/h	126	1041	49	8	974	828	108	170	27	88	112	129
Arrive On Green	0.08	0.68	0.68	0.01	0.60	0.60	0.19	0.19	0.19	0.19	0.19	0.19
Sat Flow, veh/h	1547	1539	72	1547	1624	1380	297	919	148	218	605	695
Grp Volume(v), veh/h	40	0	449	5	755	75	92	0	0	249	0	0
Grp Sat Flow(s),veh/h/ln	1547	0	1611	1547	1624	1380	1364	0	0	1518	0	0
Q Serve(g_s), s	2.2	0.0	11.3	0.3	31.3	2.1	0.0	0.0	0.0	10.1	0.0	0.0
Cycle Q Clear(g_c), s	2.2	0.0	11.3	0.3	31.3	2.1	4.2	0.0	0.0	14.3	0.0	0.0
Prop In Lane	1.00		0.04	1.00		1.00	0.32		0.11	0.20		0.46
Lane Grp Cap(c), veh/h	126	0	1089	8	974	828	306	0	0	329	0	0
V/C Ratio(X)	0.32	0.00	0.41	0.62	0.77	0.09	0.30	0.00	0.00	0.76	0.00	0.00
Avail Cap(c_a), veh/h	126	0	1089	69	974	828	343	0	0	368	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	0.99	0.00	0.00
Uniform Delay (d), s/veh	39.0	0.0	6.5	44.7	13.5	7.6	31.6	0.0	0.0	35.6	0.0	0.0
Incr Delay (d2), s/veh	1.4	0.0	1.2	58.4	6.0	0.2	0.5	0.0	0.0	7.7	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.0	0.0	5.3	0.3	15.5	0.8	2.0	0.0	0.0	6.7	0.0	0.0
LnGrp Delay(d),s/veh	40.4	0.0	7.7	103.0	19.5	7.8	32.1	0.0	0.0	43.3	0.0	0.0
LnGrp LOS	D		A	F	B	A	C			D		
Approach Vol, veh/h		489			835			92			249	
Approach Delay, s/veh		10.4			18.9			32.1			43.3	
Approach LOS		B			B			C			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6	7	8
Phs Duration (G+Y+Rc), s		20.7	4.5	64.8		20.7	11.3	58.0
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0	4.0	4.0
Max Green Setting (Gmax), s		19.0	4.0	55.0		19.0	5.0	54.0
Max Q Clear Time (g_c+I1), s		6.2	2.3	13.3		16.3	4.2	33.3
Green Ext Time (p_c), s		1.0	0.0	1.9		0.3	0.0	3.5

Intersection Summary	
HCM 2010 Ctrl Delay	20.8
HCM 2010 LOS	C

Intersection	
Intersection Delay, s/veh	41.3
Intersection LOS	E

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Vol, veh/h	0	14	33	3	0	452	129	18	0	4	49	26	0	16	260	14
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	15	15	15	10	15	15	15	10	10	10	10	10	10	10	10
Mvmt Flow	0	15	36	3	0	491	140	20	0	4	53	28	0	17	283	15
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	10.4	59.7	10.9	16.9
HCM LOS	B	F	B	C

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	5%	28%	75%	6%
Vol Thru, %	62%	66%	22%	90%
Vol Right, %	33%	6%	3%	5%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	79	50	599	290
LT Vol	4	14	452	16
Through Vol	49	33	129	260
RT Vol	26	3	18	14
Lane Flow Rate	86	54	651	315
Geometry Grp	1	1	1	1
Degree of Util (X)	0.16	0.101	1	0.556
Departure Headway (Hd)	6.71	6.684	5.703	6.346
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	544	542	638	577
Service Time	4.644	4.652	3.759	4.278
HCM Lane V/C Ratio	0.158	0.1	1.02	0.546
HCM Control Delay	10.9	10.4	59.7	16.9
HCM Lane LOS	B	B	F	C
HCM 95th-tile Q	0.6	0.3	15.3	3.4

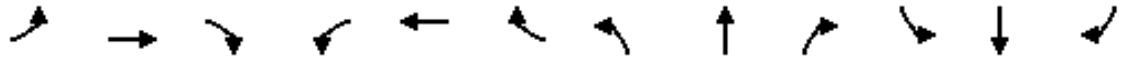
Intersection	
Int Delay, s/veh	1.6

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	12	77	260	31	26	26
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	15	15	15	15	10	10
Mvmt Flow	13	84	283	34	28	28

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	316	0	-	0	409	299
Stage 1	-	-	-	-	299	-
Stage 2	-	-	-	-	110	-
Critical Hdwy	4.25	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.335	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1174	-	-	-	584	722
Stage 1	-	-	-	-	734	-
Stage 2	-	-	-	-	895	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1174	-	-	-	577	722
Mov Cap-2 Maneuver	-	-	-	-	577	-
Stage 1	-	-	-	-	734	-
Stage 2	-	-	-	-	884	-

Approach	EB	WB	SB
HCM Control Delay, s	1.1	0	11.2
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1174	-	-	-	641
HCM Lane V/C Ratio	0.011	-	-	-	0.088
HCM Control Delay (s)	8.1	0	-	-	11.2
HCM Lane LOS	A	A	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0.3



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	213	947	8	305	1094	278	359	2083	343	449	1161	259
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	232	1029	9	332	1189	302	390	2264	373	488	1262	282
Adj No. of Lanes	2	2	1	2	3	0	2	3	0	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	186	793	355	266	1000	254	456	1778	283	346	1881	586
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.06	0.24	0.24	0.08	0.27	0.27	0.14	0.43	0.43	0.11	0.40	0.40
Ln Grp Delay, s/veh	204.1	188.6	34.7	194.1	140.9	150.7	58.9	156.5	185.7	245.9	30.4	28.0
Ln Grp LOS	F	F	C	F	F	F	E	F	F	F	C	C
Approach Vol, veh/h		1270			1823			3027			2032	
Approach Delay, s/veh		190.3			153.2			152.8			81.9	
Approach LOS		F			F			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	5	6	7	8
Case No	4.0	2.0	2.0	3.0	2.0	3.0	2.0	4.0
Phs Duration (G+Y+Rc), s	56.0	17.0	14.0	33.0	21.1	51.9	11.0	36.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	52.0	13.0	10.0	29.0	22.0	43.0	7.0	32.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	54.0	15.0	12.0	31.0	16.3	28.4	9.0	34.0
Green Ext Time (g_e), s	0.0	0.0	0.0	0.0	0.8	8.3	0.0	0.0
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prob of Max Out (p_x)	1.00	1.00	1.00	1.00	0.45	0.48	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt		1	3		5		7	
Mvmt Sat Flow, veh/h		3191	3191		3191		3191	

Through Movement Data								
Assigned Mvmt	2			4		6		8
Mvmt Sat Flow, veh/h	4102			3282		4715		3750

Right-Turn Movement Data								
Assigned Mvmt	12			14		16		18
Mvmt Sat Flow, veh/h	653			1468		1468		953

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	5	0	7	0
Lane Assignment		(Prot)	(Prot)		(Prot)		(Prot)	
Lanes in Grp	0	2	2	0	2	0	2	0

Grp Vol (v), veh/h	0	488	332	0	390	0	232	0
Grp Sat Flow (s), veh/h/ln	0	1596	1596	0	1596	0	1596	0
Q Serve Time (g_s), s	0.0	13.0	10.0	0.0	14.3	0.0	7.0	0.0
Cycle Q Clear Time (g_c), s	0.0	13.0	10.0	0.0	14.3	0.0	7.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	346	266	0	456	0	186	0
V/C Ratio (X)	0.00	1.41	1.25	0.00	0.86	0.00	1.25	0.00
Avail Cap (c_a), veh/h	0	346	266	0	585	0	186	0
Upstream Filter (I)	0.00	0.42	1.00	0.00	0.88	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	53.5	55.0	0.0	50.2	0.0	56.5	0.0
Incr Delay (d2), s/veh	0.0	192.4	139.1	0.0	8.6	0.0	147.6	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	245.9	194.1	0.0	58.9	0.0	204.1	0.0
1st-Term Q (Q1), veh/ln	0.0	5.7	4.4	0.0	6.3	0.0	3.1	0.0
2nd-Term Q (Q2), veh/ln	0.0	9.2	5.1	0.0	0.5	0.0	3.8	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	15.0	9.5	0.0	6.9	0.0	6.9	0.0
%ile Storage Ratio (RQ%)	0.00	2.11	1.34	0.00	1.03	0.00	0.98	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	35.6	16.5	0.0	0.0	0.0	11.5	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.4	0.3	0.0	0.0	0.0	0.3	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	0	6	0	8
Lane Assignment	T			T		T		T
Lanes in Grp	2	0	0	2	0	3	0	2
Grp Vol (v), veh/h	1717	0	0	1029	0	1262	0	997
Grp Sat Flow (s), veh/h/ln	1572	0	0	1641	0	1572	0	1572
Q Serve Time (g_s), s	52.0	0.0	0.0	29.0	0.0	26.4	0.0	32.0
Cycle Q Clear Time (g_c), s	52.0	0.0	0.0	29.0	0.0	26.4	0.0	32.0
Lane Grp Cap (c), veh/h	1362	0	0	793	0	1881	0	838
V/C Ratio (X)	1.26	0.00	0.00	1.30	0.00	0.67	0.00	1.19
Avail Cap (c_a), veh/h	1362	0	0	793	0	1881	0	838
Upstream Filter (I)	0.88	0.00	0.00	1.00	0.00	0.42	0.00	1.00
Uniform Delay (d1), s/veh	34.0	0.0	0.0	45.5	0.0	29.6	0.0	44.0
Incr Delay (d2), s/veh	122.5	0.0	0.0	143.1	0.0	0.8	0.0	96.9
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	156.5	0.0	0.0	188.6	0.0	30.4	0.0	140.9
1st-Term Q (Q1), veh/ln	22.5	0.0	0.0	13.1	0.0	11.5	0.0	13.9
2nd-Term Q (Q2), veh/ln	23.2	0.0	0.0	15.8	0.0	0.1	0.0	11.3

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	45.7	0.0	0.0	28.9	0.0	11.6	0.0	25.1
%ile Storage Ratio (RQ%)	0.06	0.00	0.00	0.15	0.00	0.03	0.00	0.12
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	88.6	0.0	0.0	59.0	0.0	0.0	0.0	39.6
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.3

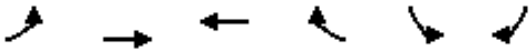
Right Lane Group Data								
Assigned Mvmt	12	0	0	14	0	16	0	18
Lane Assignment	T+R			R		R		T+R
Lanes in Grp	1	0	0	1	0	1	0	1
Grp Vol (v), veh/h	920	0	0	9	0	282	0	494
Grp Sat Flow (s), veh/h/ln	1612	0	0	1468	0	1468	0	1559
Q Serve Time (g_s), s	52.0	0.0	0.0	0.6	0.0	17.2	0.0	32.0
Cycle Q Clear Time (g_c), s	52.0	0.0	0.0	0.6	0.0	17.2	0.0	32.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.41	0.00	0.00	1.00	0.00	1.00	0.00	0.61
Lane Grp Cap (c), veh/h	699	0	0	355	0	586	0	416
V/C Ratio (X)	1.32	0.00	0.00	0.03	0.00	0.48	0.00	1.19
Avail Cap (c_a), veh/h	699	0	0	355	0	586	0	416
Upstream Filter (I)	0.88	0.00	0.00	1.00	0.00	0.42	0.00	1.00
Uniform Delay (d1), s/veh	34.0	0.0	0.0	34.7	0.0	26.8	0.0	44.0
Incr Delay (d2), s/veh	151.7	0.0	0.0	0.0	0.0	1.2	0.0	106.7
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	185.7	0.0	0.0	34.7	0.0	28.0	0.0	150.7
1st-Term Q (Q1), veh/ln	23.1	0.0	0.0	0.2	0.0	6.9	0.0	13.7
2nd-Term Q (Q2), veh/ln	29.4	0.0	0.0	0.0	0.0	0.2	0.0	12.3
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	52.5	0.0	0.0	0.2	0.0	7.1	0.0	26.1
%ile Storage Ratio (RQ%)	0.07	0.00	0.00	0.03	0.00	0.02	0.00	0.13
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	55.4	0.0	0.0	0.0	0.0	0.0	0.0	19.6
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3

Intersection Summary	
HCM 2010 Ctrl Delay	141.1
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	213	947	8	305	1094	278	359	2083	343	449	1161	259
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	232	1029	9	332	1189	302	390	2264	373	488	1262	282
Adj No. of Lanes	2	2	1	2	3	0	2	3	0	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	186	793	355	266	1000	254	456	1778	283	346	1881	586
Arrive On Green	0.06	0.24	0.24	0.08	0.27	0.27	0.14	0.43	0.43	0.11	0.40	0.40
Sat Flow, veh/h	3191	3282	1468	3191	3750	953	3191	4102	653	3191	4715	1468
Grp Volume(v), veh/h	232	1029	9	332	997	494	390	1717	920	488	1262	282
Grp Sat Flow(s),veh/h/ln	1596	1641	1468	1596	1572	1559	1596	1572	1612	1596	1572	1468
Q Serve(g_s), s	7.0	29.0	0.6	10.0	32.0	32.0	14.3	52.0	52.0	13.0	26.4	17.2
Cycle Q Clear(g_c), s	7.0	29.0	0.6	10.0	32.0	32.0	14.3	52.0	52.0	13.0	26.4	17.2
Prop In Lane	1.00		1.00	1.00		0.61	1.00		0.41	1.00		1.00
Lane Grp Cap(c), veh/h	186	793	355	266	838	416	456	1362	699	346	1881	586
V/C Ratio(X)	1.25	1.30	0.03	1.25	1.19	1.19	0.86	1.26	1.32	1.41	0.67	0.48
Avail Cap(c_a), veh/h	186	793	355	266	838	416	585	1362	699	346	1881	586
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	0.88	0.88	0.88	0.42	0.42	0.42
Uniform Delay (d), s/veh	56.5	45.5	34.7	55.0	44.0	44.0	50.2	34.0	34.0	53.5	29.6	26.8
Incr Delay (d2), s/veh	147.6	143.1	0.0	139.1	96.9	106.7	8.6	122.5	151.7	192.4	0.8	1.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.9	28.9	0.2	9.5	25.1	26.1	6.9	45.7	52.5	15.0	11.6	7.1
LnGrp Delay(d),s/veh	204.1	188.6	34.7	194.1	140.9	150.7	58.9	156.5	185.7	245.9	30.4	28.0
LnGrp LOS	F	F	C	F	F	F	E	F	F	F	C	C
Approach Vol, veh/h		1270			1823			3027			2032	
Approach Delay, s/veh		190.3			153.2			152.8			81.9	
Approach LOS		F			F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	17.0	56.0	14.0	33.0	21.1	51.9	11.0	36.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	13.0	52.0	10.0	29.0	22.0	43.0	7.0	32.0
Max Q Clear Time (g_c+I1), s	15.0	54.0	12.0	31.0	16.3	28.4	9.0	34.0
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.8	8.3	0.0	0.0

Intersection Summary		
HCM 2010 Ctrl Delay		141.1
HCM 2010 LOS		F



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (veh/h)	101	321	752	754	205	38
Number	7	4	8	18	1	16
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00			1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	110	349	817	820	223	41
Adj No. of Lanes	2	2	2	1	2	2
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Opposing Right Turn Influence	Yes				Yes	
Cap, veh/h	571	2663	2663	1192	318	257
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.81	0.81	0.81	0.81	0.10	0.10
Ln Grp Delay, s/veh	4.3	1.9	2.3	6.0	42.1	37.4
Ln Grp LOS	A	A	A	A	D	D
Approach Vol, veh/h		459	1637		264	
Approach Delay, s/veh		2.5	4.2		41.3	
Approach LOS		A	A		D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	6			4				8
Case No	9.0			6.0				7.0
Phs Duration (G+Y+Rc), s	13.0			77.0				77.0
Change Period (Y+Rc), s	4.0			4.0				4.0
Max Green (Gmax), s	22.0			60.0				60.0
Max Allow Headway (MAH), s	4.1			4.7				4.7
Max Q Clear (g_c+I1), s	8.1			13.3				23.5
Green Ext Time (g_e), s	0.9			19.4				17.6
Prob of Phs Call (p_c)	1.00			1.00				1.00
Prob of Max Out (p_x)	0.00			0.00				0.00

Left-Turn Movement Data								
Assigned Mvmt	1			7				3
Mvmt Sat Flow, veh/h	3191			549				0

Through Movement Data								
Assigned Mvmt	6			4				8
Mvmt Sat Flow, veh/h	0			3368				3368

Right-Turn Movement Data								
Assigned Mvmt	16			14				18
Mvmt Sat Flow, veh/h	2584			0				1468

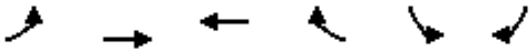
Left Lane Group Data								
Assigned Mvmt	1	0	0	7	0	0	0	3
Lane Assignment								
Lanes in Grp	2	0	0	2	0	0	0	0

Grp Vol (v), veh/h	223	0	0	110	0	0	0	0
Grp Sat Flow (s), veh/h/ln	1596	0	0	275	0	0	0	0
Q Serve Time (g_s), s	6.1	0.0	0.0	5.7	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	6.1	0.0	0.0	11.3	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	1596	0	0	275	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	73.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	67.4	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	5.7	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	318	0	0	571	0	0	0	0
V/C Ratio (X)	0.70	0.00	0.00	0.19	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	780	0	0	571	0	0	0	0
Upstream Filter (I)	1.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	39.2	0.0	0.0	3.5	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	2.8	0.0	0.0	0.7	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	42.1	0.0	0.0	4.3	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	2.7	0.0	0.0	0.4	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	2.8	0.0	0.0	0.5	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.38	0.00	0.00	0.04	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	6	0	0	4	0	0	0	8
Lane Assignment				T				T
Lanes in Grp	0	0	0	2	0	0	0	2
Grp Vol (v), veh/h	0	0	0	349	0	0	0	817
Grp Sat Flow (s), veh/h/ln	0	0	0	1641	0	0	0	1641
Q Serve Time (g_s), s	0.0	0.0	0.0	2.0	0.0	0.0	0.0	5.6
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	2.0	0.0	0.0	0.0	5.6
Lane Grp Cap (c), veh/h	0	0	0	2663	0	0	0	2663
V/C Ratio (X)	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.31
Avail Cap (c_a), veh/h	0	0	0	2663	0	0	0	2663
Upstream Filter (I)	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.74
Uniform Delay (d1), s/veh	0.0	0.0	0.0	1.8	0.0	0.0	0.0	2.1
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	1.9	0.0	0.0	0.0	2.3
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.9	0.0	0.0	0.0	2.5
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.9	0.0	0.0	0.0	2.6
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	16	0	0	14	0	0	0	18
Lane Assignment	R							R
Lanes in Grp	2	0	0	0	0	0	0	1
Grp Vol (v), veh/h	41	0	0	0	0	0	0	820
Grp Sat Flow (s), veh/h/ln	1292	0	0	0	0	0	0	1468
Q Serve Time (g_s), s	1.3	0.0	0.0	0.0	0.0	0.0	0.0	21.5
Cycle Q Clear Time (g_c), s	1.3	0.0	0.0	0.0	0.0	0.0	0.0	21.5
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	257	0	0	0	0	0	0	1192
V/C Ratio (X)	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.69
Avail Cap (c_a), veh/h	632	0	0	0	0	0	0	1192
Upstream Filter (I)	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.74
Uniform Delay (d1), s/veh	37.1	0.0	0.0	0.0	0.0	0.0	0.0	3.6
Incr Delay (d2), s/veh	0.3	0.0	0.0	0.0	0.0	0.0	0.0	2.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	37.4	0.0	0.0	0.0	0.0	0.0	0.0	6.0
1st-Term Q (Q1), veh/ln	0.5	0.0	0.0	0.0	0.0	0.0	0.0	8.4
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.5	0.0	0.0	0.0	0.0	0.0	0.0	9.2
%ile Storage Ratio (RQ%)	0.06	0.00	0.00	0.00	0.00	0.00	0.00	1.25
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	8.0
HCM 2010 LOS	A



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (veh/h)	101	321	752	754	205	38
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	110	349	817	820	223	41
Adj No. of Lanes	2	2	2	1	2	2
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Cap, veh/h	571	2663	2663	1192	318	257
Arrive On Green	0.81	0.81	0.81	0.81	0.10	0.10
Sat Flow, veh/h	549	3368	3368	1468	3191	2584
Grp Volume(v), veh/h	110	349	817	820	223	41
Grp Sat Flow(s),veh/h/ln	275	1641	1641	1468	1596	1292
Q Serve(g_s), s	5.7	2.0	5.6	21.5	6.1	1.3
Cycle Q Clear(g_c), s	11.3	2.0	5.6	21.5	6.1	1.3
Prop In Lane	1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	571	2663	2663	1192	318	257
V/C Ratio(X)	0.19	0.13	0.31	0.69	0.70	0.16
Avail Cap(c_a), veh/h	571	2663	2663	1192	780	632
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.96	0.96	0.74	0.74	1.00	1.00
Uniform Delay (d), s/veh	3.5	1.8	2.1	3.6	39.2	37.1
Incr Delay (d2), s/veh	0.7	0.1	0.2	2.4	2.8	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	0.9	2.6	9.2	2.8	0.5
LnGrp Delay(d),s/veh	4.3	1.9	2.3	6.0	42.1	37.4
LnGrp LOS	A	A	A	A	D	D
Approach Vol, veh/h		459	1637		264	
Approach Delay, s/veh		2.5	4.2		41.3	
Approach LOS		A	A		D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		8
Phs Duration (G+Y+Rc), s				77.0		13.0		77.0
Change Period (Y+Rc), s				4.0		4.0		4.0
Max Green Setting (Gmax), s				60.0		22.0		60.0
Max Q Clear Time (g_c+I1), s				13.3		8.1		23.5
Green Ext Time (p_c), s				19.4		0.9		17.6

Intersection Summary	
HCM 2010 Ctrl Delay	8.0
HCM 2010 LOS	A

Intersection	
Int Delay, s/veh	4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	504	184	122	807	84	49
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	0	-	0	-
Veh in Median Storage, #	0	-	-	0	1	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	548	200	133	877	91	53

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	748	0	1790	648
Stage 1	-	-	-	-	648	-
Stage 2	-	-	-	-	1142	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	825	-	~ 85	456
Stage 1	-	-	-	-	506	-
Stage 2	-	-	-	-	293	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	825	-	~ 71	456
Mov Cap-2 Maneuver	-	-	-	-	179	-
Stage 1	-	-	-	-	506	-
Stage 2	-	-	-	-	246	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.3	43.5
HCM LOS			E

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	231	-	-	825	-
HCM Lane V/C Ratio	0.626	-	-	0.161	-
HCM Control Delay (s)	43.5	-	-	10.2	-
HCM Lane LOS	E	-	-	B	-
HCM 95th %tile Q(veh)	3.7	-	-	0.6	-

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Intersection	
Int Delay, s/veh	1.8

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	54	23	768	142	4	130
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	59	25	835	154	4	141

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1062	912	0	0	989	0
Stage 1	912	-	-	-	-	-
Stage 2	150	-	-	-	-	-
Critical Hdwy	6.5	6.3	-	-	4.2	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	-	-	2.29	-
Pot Cap-1 Maneuver	239	321	-	-	668	-
Stage 1	379	-	-	-	-	-
Stage 2	859	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	238	321	-	-	668	-
Mov Cap-2 Maneuver	238	-	-	-	-	-
Stage 1	379	-	-	-	-	-
Stage 2	854	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	25.5	0	0.3
HCM LOS	D		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	258	668	-
HCM Lane V/C Ratio	-	-	0.324	0.007	-
HCM Control Delay (s)	-	-	25.5	10.4	0
HCM Lane LOS	-	-	D	B	A
HCM 95th %tile Q(veh)	-	-	1.4	0	-

Intersection	
Int Delay, s/veh	1.4

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	24	81	681	10	4	57
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	26	88	740	11	4	62

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	751	0	-	0	886	746
Stage 1	-	-	-	-	746	-
Stage 2	-	-	-	-	140	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	823	-	-	-	305	401
Stage 1	-	-	-	-	455	-
Stage 2	-	-	-	-	868	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	823	-	-	-	295	401
Mov Cap-2 Maneuver	-	-	-	-	295	-
Stage 1	-	-	-	-	455	-
Stage 2	-	-	-	-	839	-

Approach	EB	WB	SB
HCM Control Delay, s	2.2	0	16
HCM LOS			C

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	823	-	-	-	392
HCM Lane V/C Ratio	0.032	-	-	-	0.169
HCM Control Delay (s)	9.5	0	-	-	16
HCM Lane LOS	A	A	-	-	C
HCM 95th %tile Q(veh)	0.1	-	-	-	0.6

Intersection	
Int Delay, s/veh	3.1

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	17	143	603	19	47	86
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	18	155	655	21	51	93

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	676	0	-	0	858	666
Stage 1	-	-	-	-	666	-
Stage 2	-	-	-	-	192	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	879	-	-	-	317	446
Stage 1	-	-	-	-	496	-
Stage 2	-	-	-	-	822	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	879	-	-	-	310	446
Mov Cap-2 Maneuver	-	-	-	-	310	-
Stage 1	-	-	-	-	496	-
Stage 2	-	-	-	-	804	-

Approach	EB	WB	SB
HCM Control Delay, s	1	0	19.8
HCM LOS			C

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	879	-	-	-	386
HCM Lane V/C Ratio	0.021	-	-	-	0.375
HCM Control Delay (s)	9.2	0	-	-	19.8
HCM Lane LOS	A	A	-	-	C
HCM 95th %tile Q(veh)	0.1	-	-	-	1.7

Intersection	
Intersection Delay, s/veh	67.3
Intersection LOS	F

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	24	123	53	0	115	475	75	0	116	169	185
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	26	134	58	0	125	516	82	0	126	184	201
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	1	1	1
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	1	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	1	1
HCM Control Delay	24.9	73.9	73.2
HCM LOS	C	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	25%	12%	17%	18%
Vol Thru, %	36%	61%	71%	61%
Vol Right, %	39%	27%	11%	21%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	470	200	665	383
LT Vol	116	24	115	68
Through Vol	169	123	475	233
RT Vol	185	53	75	82
Lane Flow Rate	511	217	723	416
Geometry Grp	1	1	1	1
Degree of Util (X)	1	0.577	1	0.988
Departure Headway (Hd)	8.402	9.56	8.556	8.546
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	434	378	426	425
Service Time	6.462	7.601	6.616	6.575
HCM Lane V/C Ratio	1.177	0.574	1.697	0.979
HCM Control Delay	73.2	24.9	73.9	70.7
HCM Lane LOS	F	C	F	F
HCM 95th-tile Q	12.6	3.5	12.5	12.2

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	68	233	82
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10
Mvmt Flow	0	74	253	89
Number of Lanes	0	0	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	1
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	70.7
HCM LOS	F

Lane

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	0	0	0	912	14	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	0	0	991	15	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	0	0	991	0
Stage 1	-	-	-	-	0	-
Stage 2	-	-	-	-	991	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	-	-	264	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	347	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	264	-
Mov Cap-2 Maneuver	-	-	-	-	264	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	347	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	
HCM LOS			-

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	-	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	-	-	-	0	-
HCM Lane LOS	-	-	-	A	-
HCM 95th %tile Q(veh)	-	-	-	-	-

Intersection	
Int Delay, s/veh	111.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	0	2	2	159	39	615	6	235	14	17	74	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	2	2	173	42	668	7	255	15	18	80	0

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	749	401	80	396	393	263	80	0	0	271	0	0
Stage 1	117	117	-	276	276	-	-	-	-	-	-	-
Stage 2	632	284	-	120	117	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.2	6.6	6.3	4.2	-	-	4.2	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.59	4.09	3.39	2.29	-	-	2.29	-	-
Pot Cap-1 Maneuver	318	525	958	550	531	757	1469	-	-	1248	-	-
Stage 1	869	784	-	713	667	-	-	-	-	-	-	-
Stage 2	455	662	-	865	784	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	34	514	958	538	520	757	1469	-	-	1248	-	-
Mov Cap-2 Maneuver	34	514	-	538	520	-	-	-	-	-	-	-
Stage 1	864	772	-	709	663	-	-	-	-	-	-	-
Stage 2	50	658	-	848	772	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	10.4	159.4	0.2	1.5
HCM LOS	B	F		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1469	-	-	669	687	1248	-	-
HCM Lane V/C Ratio	0.004	-	-	0.006	1.286	0.015	-	-
HCM Control Delay (s)	7.5	0	-	10.4	159.4	7.9	0	-
HCM Lane LOS	A	A	-	B	F	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0	34.3	0	-	-

Intersection	
Int Delay, s/veh	0.8

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	0	44	767	829	39	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	48	834	901	42	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	1735	0	-	0	1332	1284
Stage 1	-	-	-	-	1284	-
Stage 2	-	-	-	-	48	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	343	-	-	-	164	193
Stage 1	-	-	-	-	250	-
Stage 2	-	-	-	-	954	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	343	-	-	-	164	193
Mov Cap-2 Maneuver	-	-	-	-	164	-
Stage 1	-	-	-	-	250	-
Stage 2	-	-	-	-	954	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	34.4
HCM LOS			D

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	343	-	-	-	164
HCM Lane V/C Ratio	-	-	-	-	0.258
HCM Control Delay (s)	0	-	-	-	34.4
HCM Lane LOS	A	-	-	-	D
HCM 95th %tile Q(veh)	0	-	-	-	1

Intersection	
Intersection Delay, s/veh	54.1
Intersection LOS	F

Movement	EBU	EBL	EBR	NBU	NBL	NBT	SBU	SBT	SBR
Vol, veh/h	0	52	112	0	556	165	0	394	314
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	57	122	0	604	179	0	428	341
Number of Lanes	0	1	0	0	0	1	0	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	1	1
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	1	1	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	1	0	1
HCM Control Delay	13.3	59.9	57.6
HCM LOS	B	F	F

Lane	NBLn1	EBLn1	SBLn1
Vol Left, %	77%	32%	0%
Vol Thru, %	23%	0%	56%
Vol Right, %	0%	68%	44%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	721	164	708
LT Vol	556	52	0
Through Vol	165	0	394
RT Vol	0	112	314
Lane Flow Rate	784	178	770
Geometry Grp	1	1	1
Degree of Util (X)	1	0.338	1
Departure Headway (Hd)	5.717	6.821	5.297
Convergence, Y/N	Yes	Yes	Yes
Cap	635	531	677
Service Time	3.801	4.821	3.38
HCM Lane V/C Ratio	1.235	0.335	1.137
HCM Control Delay	59.9	13.3	57.6
HCM Lane LOS	F	B	F
HCM 95th-tile Q	15.3	1.5	15.8

Intersection	
Intersection Delay, s/veh	58.2
Intersection LOS	F

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Vol, veh/h	0	13	81	12	0	277	615	62	0	0	186	52	0	19	520	79
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	14	88	13	0	301	668	67	0	0	202	57	0	21	565	86
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	14.8	67.1	20	66.6
HCM LOS	B	F	C	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	12%	29%	3%
Vol Thru, %	78%	76%	64%	84%
Vol Right, %	22%	11%	6%	13%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	238	106	954	618
LT Vol	0	13	277	19
Through Vol	186	81	615	520
RT Vol	52	12	62	79
Lane Flow Rate	259	115	1037	672
Geometry Grp	1	1	1	1
Degree of Util (X)	0.556	0.273	1	1
Departure Headway (Hd)	7.733	8.544	7.167	7.077
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	468	422	518	517
Service Time	5.746	6.57	5.192	5.103
HCM Lane V/C Ratio	0.553	0.273	2.002	1.3
HCM Control Delay	20	14.8	67.1	66.6
HCM Lane LOS	C	B	F	F
HCM 95th-tile Q	3.3	1.1	13.7	13.8

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	0	0	0	233	111	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	0	0	253	121	0

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	374	121	121	0	-	0
Stage 1	121	-	-	-	-	-
Stage 2	253	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	612	909	1418	-	-	-
Stage 1	885	-	-	-	-	-
Stage 2	771	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	612	909	1418	-	-	-
Mov Cap-2 Maneuver	612	-	-	-	-	-
Stage 1	885	-	-	-	-	-
Stage 2	771	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	0	0	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1418	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	0	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	-	-	-

Intersection	
Int Delay, s/veh	1190.4

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	247	362	184	836	646	103
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	268	393	200	909	702	112

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	2067	758	814	0	-	0
Stage 1	758	-	-	-	-	-
Stage 2	1309	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	~ 57	394	779	-	-	-
Stage 1	449	-	-	-	-	-
Stage 2	~ 243	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	~ 27	394	779	-	-	-
Mov Cap-2 Maneuver	~ 27	-	-	-	-	-
Stage 1	449	-	-	-	-	-
Stage 2	~ 117	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	$ 4644.7	2	0
HCM LOS	F		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	779	-	60	-	-
HCM Lane V/C Ratio	0.257	-	11.033	-	-
HCM Control Delay (s)	11.2	$ 0	4644.7	-	-
HCM Lane LOS	B	A	F	-	-
HCM 95th %tile Q(veh)	1	-	78.4	-	-

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Intersection	
Intersection Delay, s/veh	7
Intersection LOS	A

Movement	EBU	EBL	EBR	NBU	NBL	NBT	SBU	SBT	SBR
Vol, veh/h	0	6	5	0	11	0	0	3	12
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	7	5	0	12	0	0	3	13
Number of Lanes	0	1	0	0	0	1	0	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	1	1
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	1	1	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	1	0	1
HCM Control Delay	7	7.4	6.7
HCM LOS	A	A	A

Lane	NBLn1	EBLn1	SBLn1
Vol Left, %	100%	55%	0%
Vol Thru, %	0%	0%	20%
Vol Right, %	0%	45%	80%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	11	11	15
LT Vol	11	6	0
Through Vol	0	0	3
RT Vol	0	5	12
Lane Flow Rate	12	12	16
Geometry Grp	1	1	1
Degree of Util (X)	0.014	0.013	0.016
Departure Headway (Hd)	4.304	3.955	3.621
Convergence, Y/N	Yes	Yes	Yes
Cap	836	908	993
Service Time	2.309	1.965	1.627
HCM Lane V/C Ratio	0.014	0.013	0.016
HCM Control Delay	7.4	7	6.7
HCM Lane LOS	A	A	A
HCM 95th-tile Q	0	0	0

Intersection	
Int Delay, s/veh	0.1

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	0	0	16	516	313	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	0	17	561	340	2

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	937	341	342	0	-	0
Stage 1	341	-	-	-	-	-
Stage 2	596	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	284	684	1174	-	-	-
Stage 1	703	-	-	-	-	-
Stage 2	535	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	278	684	1174	-	-	-
Mov Cap-2 Maneuver	278	-	-	-	-	-
Stage 1	703	-	-	-	-	-
Stage 2	524	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	0	0.2	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1174	-	-	-	-
HCM Lane V/C Ratio	0.015	-	-	-	-
HCM Control Delay (s)	8.1	0	0	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	-	-	-

Intersection	
Int Delay, s/veh	130.4

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	351	71	213	36	23	748
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	382	77	232	39	25	813

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1114	251	0	0	271	0
Stage 1	251	-	-	-	-	-
Stage 2	863	-	-	-	-	-
Critical Hdwy	6.5	6.3	-	-	4.2	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	-	-	2.29	-
Pot Cap-1 Maneuver	~ 222	769	-	-	1248	-
Stage 1	772	-	-	-	-	-
Stage 2	400	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	~ 214	769	-	-	1248	-
Mov Cap-2 Maneuver	~ 214	-	-	-	-	-
Stage 1	772	-	-	-	-	-
Stage 2	385	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	$ 445.1	0	0.2
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	244	1248	-
HCM Lane V/C Ratio	-	-	1.88	0.02	-
HCM Control Delay (s)	-	-	$ 445.1	7.9	0
HCM Lane LOS	-	-	F	A	A
HCM 95th %tile Q(veh)	-	-	32.2	0.1	-

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Intersection	
Int Delay, s/veh	6.8

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	8	468	6	37	2209	24	0	0	4	7	1	11
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	253	-	-	248	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	9	509	7	40	2401	26	0	0	4	8	1	12

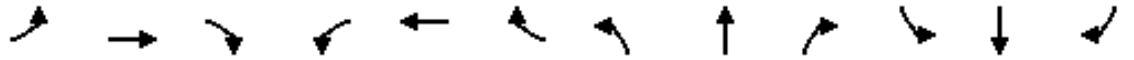
Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	2427	0	0	515	0	0	3030	3037	512	3027	3028	2414
Stage 1	-	-	-	-	-	-	529	529	-	2495	2495	-
Stage 2	-	-	-	-	-	-	2501	2508	-	532	533	-
Critical Hdwy	4.2	-	-	4.2	-	-	7.2	6.6	6.3	7.2	6.6	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.59	4.09	3.39	3.59	4.09	3.39
Pot Cap-1 Maneuver	182	-	-	1011	-	-	7	12	546	~ 7	12	39
Stage 1	-	-	-	-	-	-	519	514	-	37	55	-
Stage 2	-	-	-	-	-	-	37	54	-	517	512	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	182	-	-	1011	-	-	4	11	546	~ 6	11	39
Mov Cap-2 Maneuver	-	-	-	-	-	-	4	11	-	~ 6	11	-
Stage 1	-	-	-	-	-	-	493	489	-	35	53	-
Stage 2	-	-	-	-	-	-	24	52	-	488	487	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.4	0.1	11.6	$ 975.8
HCM LOS			B	F

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	546	182	-	-	1011	-	-	12
HCM Lane V/C Ratio	0.008	0.048	-	-	0.04	-	-	1.721
HCM Control Delay (s)	11.6	25.8	-	-	8.7	-	-	$ 975.8
HCM Lane LOS	B	D	-	-	A	-	-	F
HCM 95th %tile Q(veh)	0	0.1	-	-	0.1	-	-	3.4

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	207	216	8	52	1028	0	83	14	8	1	128	809
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	225	235	9	57	1117	0	90	15	9	1	139	879
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	144	740	28	72	697	0	72	372	223	2	66	420
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.09	0.45	0.45	0.04	0.40	0.00	0.04	0.37	0.37	0.00	0.32	0.32
Ln Grp Delay, s/veh	334.6	0.0	20.5	71.8	311.9	0.0	240.9	0.0	23.2	210.0	0.0	537.2
Ln Grp LOS	F		C	E	F		F		C	F		F
Approach Vol, veh/h		469			1174			114			1019	
Approach Delay, s/veh		171.2			300.2			195.1			536.8	
Approach LOS		F			F			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	8	7
Case No	2.0	4.0	2.0	4.0	2.0	4.0	4.0	2.0
Phs Duration (G+Y+Rc), s	4.1	45.9	9.0	55.0	9.0	41.0	50.0	14.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	4.0	38.0	9.0	47.0	5.0	37.0	46.0	10.0
Max Allow Headway (MAH), s	4.1	4.3	4.1	4.1	4.1	4.3	4.0	4.1
Max Q Clear (g_c+I1), s	2.1	3.1	5.9	12.4	7.0	39.0	48.0	12.0
Green Ext Time (g_e), s	0.0	6.9	0.0	1.7	0.0	0.0	0.0	0.0
Prob of Phs Call (p_c)	0.03	1.00	0.84	1.00	0.94	1.00	1.00	1.00
Prob of Max Out (p_x)	1.00	0.02	1.00	0.00	1.00	1.00	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt	1		3		5			7
Mvmt Sat Flow, veh/h	1645		1645		1645			1645

Through Movement Data								
Assigned Mvmt		2		4		6	8	
Mvmt Sat Flow, veh/h		1013		1653		205	1727	

Right-Turn Movement Data								
Assigned Mvmt		12		14		16	18	
Mvmt Sat Flow, veh/h		608		63		1294	0	

Left Lane Group Data								
Assigned Mvmt	1	0	3	0	5	0	0	7
Lane Assignment	(Prot)		(Prot)		(Prot)			(Prot)
Lanes in Grp	1	0	1	0	1	0	0	1

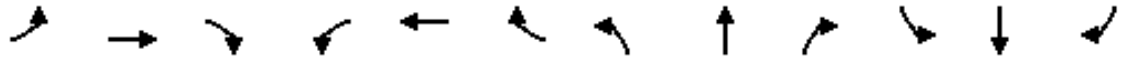
Grp Vol (v), veh/h	1	0	57	0	90	0	0	225
Grp Sat Flow (s), veh/h/ln	1645	0	1645	0	1645	0	0	1645
Q Serve Time (g_s), s	0.1	0.0	3.9	0.0	5.0	0.0	0.0	10.0
Cycle Q Clear Time (g_c), s	0.1	0.0	3.9	0.0	5.0	0.0	0.0	10.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	2	0	72	0	72	0	0	144
V/C Ratio (X)	0.56	0.00	0.80	0.00	1.25	0.00	0.00	1.56
Avail Cap (c_a), veh/h	58	0	130	0	72	0	0	144
Upstream Filter (I)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	56.9	0.0	54.0	0.0	54.5	0.0	0.0	52.0
Incr Delay (d2), s/veh	153.1	0.0	17.7	0.0	186.4	0.0	0.0	282.6
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	210.0	0.0	71.8	0.0	240.9	0.0	0.0	334.6
1st-Term Q (Q1), veh/ln	0.0	0.0	1.8	0.0	2.3	0.0	0.0	4.5
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.4	0.0	3.7	0.0	0.0	11.3
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.1	0.0	2.1	0.0	6.0	0.0	0.0	15.9
%ile Storage Ratio (RQ%)	0.01	0.00	0.30	0.00	2.66	0.00	0.00	1.65
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	4.5	0.0	0.0	20.2
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.4

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	8	0
Lane Assignment							T	
Lanes in Grp	0	0	0	0	0	0	1	0
Grp Vol (v), veh/h	0	0	0	0	0	0	1117	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	1727	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	46.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	46.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	697	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	1.60	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	0	697	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	34.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	277.9	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	311.9	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	21.9	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	53.8	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	75.7	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	105.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	18	0
Lane Assignment		T+R		T+R		T+R		
Lanes in Grp	0	1	0	1	0	1	0	0
Grp Vol (v), veh/h	0	24	0	244	0	1018	0	0
Grp Sat Flow (s), veh/h/ln	0	1620	0	1716	0	1499	0	0
Q Serve Time (g_s), s	0.0	1.1	0.0	10.4	0.0	37.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	1.1	0.0	10.4	0.0	37.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.38	0.00	0.04	0.00	0.86	0.00	0.00
Lane Grp Cap (c), veh/h	0	595	0	768	0	486	0	0
V/C Ratio (X)	0.00	0.04	0.00	0.32	0.00	2.09	0.00	0.00
Avail Cap (c_a), veh/h	0	595	0	768	0	486	0	0
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	23.2	0.0	20.3	0.0	38.5	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.2	0.0	498.7	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	23.2	0.0	20.5	0.0	537.2	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.5	0.0	4.9	0.0	15.3	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.1	0.0	67.4	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.5	0.0	5.0	0.0	82.7	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.01	0.00	0.33	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	132.9	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	361.0
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	207	216	8	52	1028	0	83	14	8	1	128	809
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	225	235	9	57	1117	0	90	15	9	1	139	879
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	144	740	28	72	697	0	72	372	223	2	66	420
Arrive On Green	0.09	0.45	0.45	0.04	0.40	0.00	0.04	0.37	0.37	0.00	0.32	0.32
Sat Flow, veh/h	1645	1653	63	1645	1727	0	1645	1013	608	1645	205	1294
Grp Volume(v), veh/h	225	0	244	57	1117	0	90	0	24	1	0	1018
Grp Sat Flow(s),veh/h/ln	1645	0	1716	1645	1727	0	1645	0	1620	1645	0	1499
Q Serve(g_s), s	10.0	0.0	10.4	3.9	46.0	0.0	5.0	0.0	1.1	0.1	0.0	37.0
Cycle Q Clear(g_c), s	10.0	0.0	10.4	3.9	46.0	0.0	5.0	0.0	1.1	0.1	0.0	37.0
Prop In Lane	1.00		0.04	1.00		0.00	1.00		0.38	1.00		0.86
Lane Grp Cap(c), veh/h	144	0	768	72	697	0	72	0	595	2	0	486
V/C Ratio(X)	1.56	0.00	0.32	0.80	1.60	0.00	1.25	0.00	0.04	0.56	0.00	2.09
Avail Cap(c_a), veh/h	144	0	768	130	697	0	72	0	595	58	0	486
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	52.0	0.0	20.3	54.0	34.0	0.0	54.5	0.0	23.2	56.9	0.0	38.5
Incr Delay (d2), s/veh	282.6	0.0	0.2	17.7	277.9	0.0	186.4	0.0	0.0	153.1	0.0	498.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	15.9	0.0	5.0	2.1	75.7	0.0	6.0	0.0	0.5	0.1	0.0	82.7
LnGrp Delay(d),s/veh	334.6	0.0	20.5	71.8	311.9	0.0	240.9	0.0	23.2	210.0	0.0	537.2
LnGrp LOS	F		C	E	F		F		C	F		F
Approach Vol, veh/h		469			1174			114			1019	
Approach Delay, s/veh		171.2			300.2			195.1			536.8	
Approach LOS		F			F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	4.1	45.9	9.0	55.0	9.0	41.0	14.0	50.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	4.0	38.0	9.0	47.0	5.0	37.0	10.0	46.0
Max Q Clear Time (g_c+I1), s	2.1	3.1	5.9	12.4	7.0	39.0	12.0	48.0
Green Ext Time (p_c), s	0.0	6.9	0.0	1.7	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	361.0
HCM 2010 LOS	F

Intersection	
Int Delay, s/veh	3.4

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	175	506	1556	8	1	46
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	Yield
Storage Length	90	-	-	-	0	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	190	550	1691	9	1	50

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	1700	0	-	0	2626	1696
Stage 1	-	-	-	-	1696	-
Stage 2	-	-	-	-	930	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	354	-	-	-	25	109
Stage 1	-	-	-	-	156	-
Stage 2	-	-	-	-	372	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	354	-	-	-	12	109
Mov Cap-2 Maneuver	-	-	-	-	12	-
Stage 1	-	-	-	-	156	-
Stage 2	-	-	-	-	172	-

Approach	EB	WB	SB
HCM Control Delay, s	6.8	0	69.1
HCM LOS			F

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1	SBLn2
Capacity (veh/h)	354	-	-	-	12	109
HCM Lane V/C Ratio	0.537	-	-	-	0.091	0.459
HCM Control Delay (s)	26.4	-	-	-	$ 333	63.4
HCM Lane LOS	D	-	-	-	F	F
HCM 95th %tile Q(veh)	3	-	-	-	0.3	2

Intersection	
Intersection Delay, s/veh	10.6
Intersection LOS	B

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	2	41	20	0	2	35	38	0	10	105	3
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	2	45	22	0	2	38	41	0	11	114	3
Number of Lanes	0	1	1	0	0	0	1	1	0	1	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	2	2	2
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	2	2	2
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	2	2	2
HCM Control Delay	9.3	8.9	9.3
HCM LOS	A	A	A

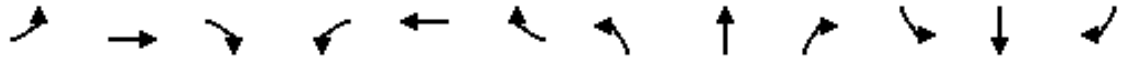
Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1	SBLn2
Vol Left, %	100%	0%	100%	0%	5%	0%	100%	0%
Vol Thru, %	0%	97%	0%	67%	95%	0%	0%	99%
Vol Right, %	0%	3%	0%	33%	0%	100%	0%	1%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	10	108	2	61	37	38	63	292
LT Vol	10	0	2	0	2	0	63	0
Through Vol	0	105	0	41	35	0	0	290
RT Vol	0	3	0	20	0	38	0	2
Lane Flow Rate	11	117	2	66	40	41	68	317
Geometry Grp	7	7	7	7	7	7	7	7
Degree of Util (X)	0.018	0.178	0.004	0.108	0.068	0.061	0.109	0.459
Departure Headway (Hd)	5.976	5.453	6.585	5.848	6.092	5.357	5.712	5.206
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	596	654	541	609	585	664	626	689
Service Time	3.739	3.216	4.355	3.618	3.86	3.126	3.462	2.955
HCM Lane V/C Ratio	0.018	0.179	0.004	0.108	0.068	0.062	0.109	0.46
HCM Control Delay	8.8	9.4	9.4	9.3	9.3	8.5	9.2	12.3
HCM Lane LOS	A	A	A	A	A	A	A	B
HCM 95th-tile Q	0.1	0.6	0	0.4	0.2	0.2	0.4	2.4

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	63	290	2
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10
Mvmt Flow	0	68	315	2
Number of Lanes	0	1	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	2
Conflicting Approach Left	WB
Conflicting Lanes Left	2
Conflicting Approach Right	EB
Conflicting Lanes Right	2
HCM Control Delay	11.7
HCM LOS	B

Lane



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	27	111	0	16	68	13	0	149	25	150	431	68
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	29	121	0	17	74	14	0	162	27	163	468	74
Adj No. of Lanes	1	1	0	1	1	0	1	2	1	1	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	57	163	0	25	106	20	2	250	112	1047	2485	1112
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.03	0.09	0.00	0.02	0.08	0.08	0.00	0.08	0.08	0.64	0.76	0.76
Ln Grp Delay, s/veh	49.6	46.3	0.0	70.7	0.0	47.4	0.0	52.7	35.8	6.7	3.3	0.8
Ln Grp LOS	D	D		E		D		D	D	A	A	A
Approach Vol, veh/h		150			105			189			705	
Approach Delay, s/veh		46.9			51.2			50.3			3.8	
Approach LOS		D			D			D			A	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	5	6	8	7
Case No	3.0	2.0	2.0	4.0	2.0	3.0	4.0	2.0
Phs Duration (G+Y+Rc), s	10.9	61.3	5.4	12.5	0.0	72.1	10.8	7.1
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	20.0	22.0	9.0	23.0	9.0	33.0	21.0	11.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.0	0.0	4.1	4.1	4.0
Max Q Clear (g_c+I1), s	6.3	5.6	2.9	8.1	0.0	5.6	6.6	3.6
Green Ext Time (g_e), s	0.5	2.6	0.0	0.4	0.0	2.9	0.2	0.2
Prob of Phs Call (p_c)	1.00	0.98	0.35	1.00	0.00	1.00	1.00	0.52
Prob of Max Out (p_x)	0.00	0.02	0.04	0.00	0.00	0.00	0.00	0.06

Left-Turn Movement Data								
Assigned Mvmt		1	3		5			7
Mvmt Sat Flow, veh/h		1645	1645		1645			1645

Through Movement Data								
Assigned Mvmt	2			4		6	8	
Mvmt Sat Flow, veh/h	3282			1727		3282	1413	

Right-Turn Movement Data								
Assigned Mvmt	12			14		16	18	
Mvmt Sat Flow, veh/h	1468			0		1468	267	

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	5	0	0	7
Lane Assignment		(Prot)	(Prot)		(Prot)			(Prot)
Lanes in Grp	0	1	1	0	1	0	0	1

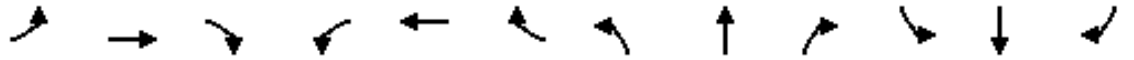
Grp Vol (v), veh/h	0	163	17	0	0	0	0	29
Grp Sat Flow (s), veh/h/ln	0	1645	1645	0	1645	0	0	1645
Q Serve Time (g_s), s	0.0	3.6	0.9	0.0	0.0	0.0	0.0	1.6
Cycle Q Clear Time (g_c), s	0.0	3.6	0.9	0.0	0.0	0.0	0.0	1.6
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	1047	25	0	2	0	0	57
V/C Ratio (X)	0.00	0.16	0.67	0.00	0.00	0.00	0.00	0.51
Avail Cap (c_a), veh/h	0	1047	165	0	165	0	0	201
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	6.6	44.1	0.0	0.0	0.0	0.0	42.7
Incr Delay (d2), s/veh	0.0	0.1	26.6	0.0	0.0	0.0	0.0	6.9
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	6.7	70.7	0.0	0.0	0.0	0.0	49.6
1st-Term Q (Q1), veh/ln	0.0	1.6	0.4	0.0	0.0	0.0	0.0	0.7
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.6	0.6	0.0	0.0	0.0	0.0	0.8
%ile Storage Ratio (RQ%)	0.00	0.19	0.09	0.00	0.00	0.00	0.00	0.25
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	0	6	8	0
Lane Assignment	T			T		T		
Lanes in Grp	2	0	0	1	0	2	0	0
Grp Vol (v), veh/h	162	0	0	121	0	468	0	0
Grp Sat Flow (s), veh/h/ln	1641	0	0	1727	0	1641	0	0
Q Serve Time (g_s), s	4.3	0.0	0.0	6.1	0.0	3.6	0.0	0.0
Cycle Q Clear Time (g_c), s	4.3	0.0	0.0	6.1	0.0	3.6	0.0	0.0
Lane Grp Cap (c), veh/h	250	0	0	163	0	2485	0	0
V/C Ratio (X)	0.65	0.00	0.00	0.74	0.00	0.19	0.00	0.00
Avail Cap (c_a), veh/h	729	0	0	441	0	2485	0	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00
Uniform Delay (d1), s/veh	40.4	0.0	0.0	39.7	0.0	3.1	0.0	0.0
Incr Delay (d2), s/veh	12.3	0.0	0.0	6.6	0.0	0.2	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	52.7	0.0	0.0	46.3	0.0	3.3	0.0	0.0
1st-Term Q (Q1), veh/ln	2.0	0.0	0.0	2.9	0.0	1.6	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.4	0.0	0.0	0.3	0.0	0.1	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	2.4	0.0	0.0	3.2	0.0	1.7	0.0	0.0
%ile Storage Ratio (RQ%)	0.08	0.00	0.00	0.13	0.00	0.01	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	0	14	0	16	18	0
Lane Assignment	R					R	T+R	
Lanes in Grp	1	0	0	0	0	1	1	0
Grp Vol (v), veh/h	27	0	0	0	0	74	88	0
Grp Sat Flow (s), veh/h/ln	1468	0	0	0	0	1468	1680	0
Q Serve Time (g_s), s	1.4	0.0	0.0	0.0	0.0	0.6	4.6	0.0
Cycle Q Clear Time (g_c), s	1.4	0.0	0.0	0.0	0.0	0.6	4.6	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	0.00	0.00	1.00	0.16	0.00
Lane Grp Cap (c), veh/h	112	0	0	0	0	1112	126	0
V/C Ratio (X)	0.24	0.00	0.00	0.00	0.00	0.07	0.70	0.00
Avail Cap (c_a), veh/h	326	0	0	0	0	1112	392	0
Upstream Filter (I)	1.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00
Uniform Delay (d1), s/veh	30.8	0.0	0.0	0.0	0.0	0.7	40.6	0.0
Incr Delay (d2), s/veh	5.0	0.0	0.0	0.0	0.0	0.1	6.8	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	35.8	0.0	0.0	0.0	0.0	0.8	47.4	0.0
1st-Term Q (Q1), veh/ln	0.6	0.0	0.0	0.0	0.0	0.2	2.1	0.0
2nd-Term Q (Q2), veh/ln	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.7	0.0	0.0	0.0	0.0	0.3	2.4	0.0
%ile Storage Ratio (RQ%)	0.11	0.00	0.00	0.00	0.00	0.17	0.01	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	21.4
HCM 2010 LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	27	111	0	16	68	13	0	149	25	150	431	68
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	29	121	0	17	74	14	0	162	27	163	468	74
Adj No. of Lanes	1	1	0	1	1	0	1	2	1	1	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	57	163	0	25	106	20	2	250	112	1047	2485	1112
Arrive On Green	0.03	0.09	0.00	0.02	0.08	0.08	0.00	0.08	0.08	0.64	0.76	0.76
Sat Flow, veh/h	1645	1727	0	1645	1413	267	1645	3282	1468	1645	3282	1468
Grp Volume(v), veh/h	29	121	0	17	0	88	0	162	27	163	468	74
Grp Sat Flow(s),veh/h/ln	1645	1727	0	1645	0	1680	1645	1641	1468	1645	1641	1468
Q Serve(g_s), s	1.6	6.1	0.0	0.9	0.0	4.6	0.0	4.3	1.4	3.6	3.6	0.6
Cycle Q Clear(g_c), s	1.6	6.1	0.0	0.9	0.0	4.6	0.0	4.3	1.4	3.6	3.6	0.6
Prop In Lane	1.00		0.00	1.00		0.16	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	57	163	0	25	0	126	2	250	112	1047	2485	1112
V/C Ratio(X)	0.51	0.74	0.00	0.67	0.00	0.70	0.00	0.65	0.24	0.16	0.19	0.07
Avail Cap(c_a), veh/h	201	441	0	165	0	392	165	729	326	1047	2485	1112
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	42.7	39.7	0.0	44.1	0.0	40.6	0.0	40.4	30.8	6.6	3.1	0.7
Incr Delay (d2), s/veh	6.9	6.6	0.0	26.6	0.0	6.8	0.0	12.3	5.0	0.1	0.2	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	3.2	0.0	0.6	0.0	2.4	0.0	2.4	0.7	1.6	1.7	0.3
LnGrp Delay(d),s/veh	49.6	46.3	0.0	70.7	0.0	47.4	0.0	52.7	35.8	6.7	3.3	0.8
LnGrp LOS	D	D		E		D		D	D	A	A	A
Approach Vol, veh/h		150			105			189			705	
Approach Delay, s/veh		46.9			51.2			50.3			3.8	
Approach LOS		D			D			D			A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	61.3	10.9	5.4	12.5	0.0	72.1	7.1	10.8
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	22.0	20.0	9.0	23.0	9.0	33.0	11.0	21.0
Max Q Clear Time (g_c+I1), s	5.6	6.3	2.9	8.1	0.0	5.6	3.6	6.6
Green Ext Time (p_c), s	2.6	0.5	0.0	0.4	0.0	2.9	0.2	0.2

Intersection Summary	
HCM 2010 Ctrl Delay	21.4
HCM 2010 LOS	C

Intersection	
Int Delay, s/veh	0.5

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	0	19	0	106	299	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	28	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	21	0	115	325	0

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	440	325	325	0	-	0
Stage 1	325	-	-	-	-	-
Stage 2	115	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	560	698	1191	-	-	-
Stage 1	715	-	-	-	-	-
Stage 2	890	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	560	698	1191	-	-	-
Mov Cap-2 Maneuver	560	-	-	-	-	-
Stage 1	715	-	-	-	-	-
Stage 2	890	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	10.3	0	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1191	-	698	-	-
HCM Lane V/C Ratio	-	-	0.03	-	-
HCM Control Delay (s)	0	-	10.3	-	-
HCM Lane LOS	A	-	B	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-

Intersection	
Int Delay, s/veh	4.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	27	1	24	8	9	14	147	235	30	62	264	374
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	29	1	26	9	10	15	160	255	33	67	287	407

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	1229	1233	490	1230	1419	272	693	0	0	288	0	0
Stage 1	625	625	-	591	591	-	-	-	-	-	-	-
Stage 2	604	608	-	639	828	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.2	6.6	6.3	4.2	-	-	4.2	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.59	4.09	3.39	2.29	-	-	2.29	-	-
Pot Cap-1 Maneuver	149	171	562	149	131	748	866	-	-	1229	-	-
Stage 1	459	465	-	480	482	-	-	-	-	-	-	-
Stage 2	472	473	-	451	375	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	104	120	562	109	92	748	866	-	-	1229	-	-
Mov Cap-2 Maneuver	104	120	-	109	92	-	-	-	-	-	-	-
Stage 1	358	420	-	374	375	-	-	-	-	-	-	-
Stage 2	351	368	-	388	339	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	37.2	32.8	3.6	0.7
HCM LOS	E	D		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	866	-	-	167	163	1229	-	-
HCM Lane V/C Ratio	0.185	-	-	0.338	0.207	0.055	-	-
HCM Control Delay (s)	10.1	0	-	37.2	32.8	8.1	0	-
HCM Lane LOS	B	A	-	E	D	A	A	-
HCM 95th %tile Q(veh)	0.7	-	-	1.4	0.7	0.2	-	-

Intersection	
Intersection Delay, s/veh	43.8
Intersection LOS	E

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	15	14	22	0	230	27	493	0	21	216	35
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	16	15	24	0	250	29	536	0	23	235	38
Number of Lanes	0	0	1	0	0	0	1	1	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	2	1	1
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	1	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	1	2
HCM Control Delay	12.8	50.5	21.2
HCM LOS	B	F	C

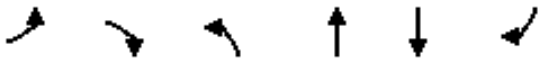
Lane	NBLn1	EBLn1	WBLn1	WBLn2	SBLn1
Vol Left, %	8%	29%	89%	0%	24%
Vol Thru, %	79%	27%	11%	0%	76%
Vol Right, %	13%	43%	0%	100%	1%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	272	51	257	493	433
LT Vol	21	15	230	0	103
Through Vol	216	14	27	0	327
RT Vol	35	22	0	493	3
Lane Flow Rate	296	55	279	536	471
Geometry Grp	2	5	7	7	2
Degree of Util (X)	0.611	0.132	0.617	1	0.927
Departure Headway (Hd)	7.437	8.58	7.951	6.773	7.087
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	494	424	453	536	522
Service Time	5.348	6.504	5.706	4.526	5.008
HCM Lane V/C Ratio	0.599	0.13	0.616	1	0.902
HCM Control Delay	21.2	12.8	22.8	64.9	50.1
HCM Lane LOS	C	B	C	F	F
HCM 95th-tile Q	4	0.5	4.1	14.1	11.2

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	103	327	3
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10
Mvmt Flow	0	112	355	3
Number of Lanes	0	0	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	2
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	50.1
HCM LOS	F

Lane



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Volume (veh/h)	213	14	40	460	473	1161
Number	7	14	5	2	6	16
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00	1.00	1.00			1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1900	1727	1727	1727	1727
Adj Flow Rate, veh/h	232	15	43	500	514	1262
Adj No. of Lanes	0	0	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	10	10	10	10
Opposing Right Turn Influence	Yes		Yes			
Cap, veh/h	261	17	84	1278	1113	946
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.17	0.17	0.05	0.74	0.64	0.64
Ln Grp Delay, s/veh	62.5	0.0	46.6	5.2	9.5	173.5
Ln Grp LOS	E		D	A	A	F
Approach Vol, veh/h	248			543	1776	
Approach Delay, s/veh	62.5			8.5	126.0	
Approach LOS	E			A	F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2		4	6	5		
Case No		4.0		12.0	7.0	2.0		
Phs Duration (G+Y+Rc), s		70.6		19.4	62.0	8.6		
Change Period (Y+Rc), s		4.0		4.0	4.0	4.0		
Max Green (Gmax), s		66.0		16.0	58.0	4.0		
Max Allow Headway (MAH), s		4.0		4.1	4.3	4.0		
Max Q Clear (g_c+I1), s		11.5		15.4	60.0	4.3		
Green Ext Time (g_e), s		2.1		0.1	0.0	0.0		
Prob of Phs Call (p_c)		1.00		1.00	1.00	0.66		
Prob of Max Out (p_x)		0.00		1.00	1.00	1.00		

Left-Turn Movement Data								
Assigned Mvmt				7	1	5		
Mvmt Sat Flow, veh/h				1528	0	1645		

Through Movement Data								
Assigned Mvmt		2		4	6			
Mvmt Sat Flow, veh/h		1727		7	1727			

Right-Turn Movement Data								
Assigned Mvmt		12		14	16			
Mvmt Sat Flow, veh/h		0		99	1468			

Left Lane Group Data								
Assigned Mvmt	0	0	0	7	1	5	0	0
Lane Assignment				L+T+R		(Prot)		
Lanes in Grp	0	0	0	1	0	1	0	0

Grp Vol (v), veh/h	0	0	0	248	0	43	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1633	0	1645	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	13.4	0.0	2.3	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	13.4	0.0	2.3	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	58.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.00	0.00	0.94	0.00	1.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	0	0	279	0	84	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.89	0.00	0.51	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	290	0	84	0	0
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	36.5	0.0	41.6	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	26.0	0.0	5.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	62.5	0.0	46.6	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	6.0	0.0	1.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	2.0	0.0	0.1	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	8.0	0.0	1.2	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.02	0.00	0.27	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	6	0	0	0
Lane Assignment		T			T			
Lanes in Grp	0	1	0	0	1	0	0	0
Grp Vol (v), veh/h	0	500	0	0	514	0	0	0
Grp Sat Flow (s), veh/h/ln	0	1727	0	0	1727	0	0	0
Q Serve Time (g_s), s	0.0	9.5	0.0	0.0	13.6	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	9.5	0.0	0.0	13.6	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	1278	0	0	1113	0	0	0
V/C Ratio (X)	0.00	0.39	0.00	0.00	0.46	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	1278	0	0	1113	0	0	0
Upstream Filter (I)	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	4.3	0.0	0.0	8.1	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.9	0.0	0.0	1.4	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	5.2	0.0	0.0	9.5	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	4.4	0.0	0.0	6.4	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.3	0.0	0.0	0.4	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	4.8	0.0	0.0	6.9	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.03	0.00	0.00	0.10	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	16	0	0	0
Lane Assignment					R			
Lanes in Grp	0	0	0	0	1	0	0	0
Grp Vol (v), veh/h	0	0	0	0	1262	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	1468	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	58.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	58.0	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.00	0.00	0.06	1.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	0	0	0	946	0	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	1.33	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	0	946	0	0	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	16.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	157.5	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	173.5	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	23.1	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	41.4	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	64.5	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	35.55	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	79.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	95.0
HCM 2010 LOS	F

Notes

User approved volume balancing among the lanes for turning movement.



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Volume (veh/h)	213	14	40	460	473	1161
Number	7	14	5	2	6	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00			1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1900	1727	1727	1727	1727
Adj Flow Rate, veh/h	232	15	43	500	514	1262
Adj No. of Lanes	0	0	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	10	10	10	10
Cap, veh/h	261	17	84	1278	1113	946
Arrive On Green	0.17	0.17	0.05	0.74	0.64	0.64
Sat Flow, veh/h	1528	99	1645	1727	1727	1468
Grp Volume(v), veh/h	248	0	43	500	514	1262
Grp Sat Flow(s),veh/h/ln	1633	0	1645	1727	1727	1468
Q Serve(g_s), s	13.4	0.0	2.3	9.5	13.6	58.0
Cycle Q Clear(g_c), s	13.4	0.0	2.3	9.5	13.6	58.0
Prop In Lane	0.94	0.06	1.00			1.00
Lane Grp Cap(c), veh/h	279	0	84	1278	1113	946
V/C Ratio(X)	0.89	0.00	0.51	0.39	0.46	1.33
Avail Cap(c_a), veh/h	290	0	84	1278	1113	946
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	36.5	0.0	41.6	4.3	8.1	16.0
Incr Delay (d2), s/veh	26.0	0.0	5.0	0.9	1.4	157.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.0	0.0	1.2	4.8	6.9	64.5
LnGrp Delay(d),s/veh	62.5	0.0	46.6	5.2	9.5	173.5
LnGrp LOS	E		D	A	A	F
Approach Vol, veh/h	248			543	1776	
Approach Delay, s/veh	62.5			8.5	126.0	
Approach LOS	E			A	F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4	5	6		
Phs Duration (G+Y+Rc), s		70.6		19.4	8.6	62.0		
Change Period (Y+Rc), s		4.0		4.0	4.0	4.0		
Max Green Setting (Gmax), s		66.0		16.0	4.0	58.0		
Max Q Clear Time (g_c+I1), s		11.5		15.4	4.3	60.0		
Green Ext Time (p_c), s		2.1		0.1	0.0	0.0		

Intersection Summary	
HCM 2010 Ctrl Delay	95.0
HCM 2010 LOS	F

Notes

User approved volume balancing among the lanes for turning movement.

Intersection	
Int Delay, s/veh	41.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	78	527	0	0	1985	344	0	2	2	13	0	13
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	200	-	-	200	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	85	573	0	0	2158	374	0	2	2	14	0	14

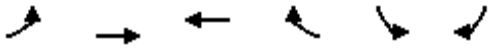
Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	2532	0	0	573	0	0	3094	3274	573	3090	3087	2345
Stage 1	-	-	-	-	-	-	742	742	-	2345	2345	-
Stage 2	-	-	-	-	-	-	2352	2532	-	745	742	-
Critical Hdwy	4.2	-	-	4.2	-	-	7.2	6.6	6.3	7.2	6.6	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.59	4.09	3.39	3.59	4.09	3.39
Pot Cap-1 Maneuver	165	-	-	961	-	-	7	8	504	~ 7	11	43
Stage 1	-	-	-	-	-	-	395	411	-	46	66	-
Stage 2	-	-	-	-	-	-	45	52	-	394	411	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	165	-	-	961	-	-	3	4	504	~ 2	5	43
Mov Cap-2 Maneuver	-	-	-	-	-	-	3	4	-	~ 2	5	-
Stage 1	-	-	-	-	-	-	192	199	-	22	66	-
Stage 2	-	-	-	-	-	-	30	52	-	188	199	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	6.2	0	$ 699.6	$ 4443.1
HCM LOS			F	F

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	8	165	-	-	961	-	-	4
HCM Lane V/C Ratio	0.543	0.514	-	-	-	-	-	7.065
HCM Control Delay (s)	$ 699.6	47.9	-	-	0	-	-	$ 4443.1
HCM Lane LOS	F	E	-	-	A	-	-	F
HCM 95th %tile Q(veh)	1.1	2.5	-	-	0	-	-	5.1

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (veh/h)	47	145	863	40	43	3
Number	7	4	8	18	1	16
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00			1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900
Adj Flow Rate, veh/h	51	158	938	43	47	3
Adj No. of Lanes	1	1	1	1	0	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	0	0
Opposing Right Turn Influence	Yes				Yes	
Cap, veh/h	352	1180	1180	1003	159	10
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.68	0.68	0.68	0.68	0.11	0.11
Ln Grp Delay, s/veh	10.3	2.1	5.4	2.0	16.6	0.0
Ln Grp LOS	B	A	A	A	B	
Approach Vol, veh/h		209	981		51	
Approach Delay, s/veh		4.1	5.3		16.6	
Approach LOS		A	A		B	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	6			4				8
Case No	12.0			6.0				7.0
Phs Duration (G+Y+Rc), s	8.0			29.9				29.9
Change Period (Y+Rc), s	4.0			4.0				4.0
Max Green (Gmax), s	17.0			65.0				65.0
Max Allow Headway (MAH), s	4.1			4.2				4.2
Max Q Clear (g_c+I1), s	3.1			19.1				16.3
Green Ext Time (g_e), s	0.1			6.8				6.8
Prob of Phs Call (p_c)	1.00			1.00				1.00
Prob of Max Out (p_x)	0.00			0.00				0.00

Left-Turn Movement Data								
Assigned Mvmt	1			7				3
Mvmt Sat Flow, veh/h	1507			530				0

Through Movement Data								
Assigned Mvmt	6			4				8
Mvmt Sat Flow, veh/h	32			1727				1727

Right-Turn Movement Data								
Assigned Mvmt	16			14				18
Mvmt Sat Flow, veh/h	96			0				1468

Left Lane Group Data								
Assigned Mvmt	1	0	0	7	0	0	0	3
Lane Assignment	L+T+R							
Lanes in Grp	1	0	0	1	0	0	0	0

Grp Vol (v), veh/h	51	0	0	51	0	0	0	0
Grp Sat Flow (s), veh/h/ln	1635	0	0	530	0	0	0	0
Q Serve Time (g_s), s	1.1	0.0	0.0	2.8	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	1.1	0.0	0.0	17.1	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	530	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	25.9	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	11.6	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.9
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.92	0.00	0.00	1.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	173	0	0	352	0	0	0	0
V/C Ratio (X)	0.30	0.00	0.00	0.14	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	734	0	0	900	0	0	0	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	15.6	0.0	0.0	10.1	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.9	0.0	0.0	0.2	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	16.6	0.0	0.0	10.3	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.5	0.0	0.0	0.4	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.5	0.0	0.0	0.4	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	6	0	0	4	0	0	0	8
Lane Assignment				T				T
Lanes in Grp	0	0	0	1	0	0	0	1
Grp Vol (v), veh/h	0	0	0	158	0	0	0	938
Grp Sat Flow (s), veh/h/ln	0	0	0	1727	0	0	0	1727
Q Serve Time (g_s), s	0.0	0.0	0.0	1.2	0.0	0.0	0.0	14.3
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	1.2	0.0	0.0	0.0	14.3
Lane Grp Cap (c), veh/h	0	0	0	1180	0	0	0	1180
V/C Ratio (X)	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.80
Avail Cap (c_a), veh/h	0	0	0	2965	0	0	0	2965
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	2.1	0.0	0.0	0.0	4.2
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	2.1	0.0	0.0	0.0	5.4
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.6	0.0	0.0	0.0	6.5
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4

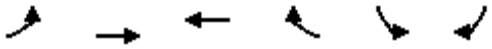
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.6	0.0	0.0	0.0	6.9
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	16	0	0	14	0	0	0	18
Lane Assignment								R
Lanes in Grp	0	0	0	0	0	0	0	1
Grp Vol (v), veh/h	0	0	0	0	0	0	0	43
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	1468
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.06	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	1003
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	2520
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	5.5
HCM 2010 LOS	A

Notes

User approved volume balancing among the lanes for turning movement.



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (veh/h)	47	145	863	40	43	3
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900
Adj Flow Rate, veh/h	51	158	938	43	47	3
Adj No. of Lanes	1	1	1	1	0	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	0	0
Cap, veh/h	352	1180	1180	1003	159	10
Arrive On Green	0.68	0.68	0.68	0.68	0.11	0.11
Sat Flow, veh/h	530	1727	1727	1468	1507	96
Grp Volume(v), veh/h	51	158	938	43	51	0
Grp Sat Flow(s),veh/h/ln	530	1727	1727	1468	1635	0
Q Serve(g_s), s	2.8	1.2	14.3	0.4	1.1	0.0
Cycle Q Clear(g_c), s	17.1	1.2	14.3	0.4	1.1	0.0
Prop In Lane	1.00			1.00	0.92	0.06
Lane Grp Cap(c), veh/h	352	1180	1180	1003	173	0
V/C Ratio(X)	0.14	0.13	0.80	0.04	0.30	0.00
Avail Cap(c_a), veh/h	900	2965	2965	2520	734	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	10.1	2.1	4.2	2.0	15.6	0.0
Incr Delay (d2), s/veh	0.2	0.1	1.3	0.0	0.9	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	0.6	6.9	0.1	0.5	0.0
LnGrp Delay(d),s/veh	10.3	2.1	5.4	2.0	16.6	0.0
LnGrp LOS	B	A	A	A	B	
Approach Vol, veh/h		209	981		51	
Approach Delay, s/veh		4.1	5.3		16.6	
Approach LOS		A	A		B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		8
Phs Duration (G+Y+Rc), s				29.9		8.0		29.9
Change Period (Y+Rc), s				4.0		4.0		4.0
Max Green Setting (Gmax), s				65.0		17.0		65.0
Max Q Clear Time (g_c+I1), s				19.1		3.1		16.3
Green Ext Time (p_c), s				6.8		0.1		6.8

Intersection Summary	
HCM 2010 Ctrl Delay	5.5
HCM 2010 LOS	A

Notes

User approved volume balancing among the lanes for turning movement.

Intersection	
Int Delay, s/veh	6.5

Movement	SET	SER	NWL	NWT	NEL	NER
Vol, veh/h	98	41	112	76	0	278
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	107	45	122	83	0	302

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	151	0	455	129
Stage 1	-	-	-	-	129	-
Stage 2	-	-	-	-	326	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	1382	-	549	900
Stage 1	-	-	-	-	878	-
Stage 2	-	-	-	-	714	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1382	-	498	900
Mov Cap-2 Maneuver	-	-	-	-	498	-
Stage 1	-	-	-	-	878	-
Stage 2	-	-	-	-	648	-

Approach	SE	NW	NE
HCM Control Delay, s	0	4.7	11
HCM LOS			B

Minor Lane/Major Mvmt	NELn1	NWL	NWT	SET	SER
Capacity (veh/h)	900	1382	-	-	-
HCM Lane V/C Ratio	0.336	0.088	-	-	-
HCM Control Delay (s)	11	7.9	0	-	-
HCM Lane LOS	B	A	A	-	-
HCM 95th %tile Q(veh)	1.5	0.3	-	-	-

Intersection	
Int Delay, s/veh	22.1

Movement	EBL	EBT	WBT	WBR	SEL	SER
Vol, veh/h	68	70	625	192	18	351
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	74	76	679	209	20	382

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	888	0	-	0	1008	784
Stage 1	-	-	-	-	784	-
Stage 2	-	-	-	-	224	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	730	-	-	-	258	~ 381
Stage 1	-	-	-	-	436	-
Stage 2	-	-	-	-	795	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	730	-	-	-	231	~ 381
Mov Cap-2 Maneuver	-	-	-	-	231	-
Stage 1	-	-	-	-	436	-
Stage 2	-	-	-	-	711	-

Approach	EB	WB	SE
HCM Control Delay, s	5.2	0	77.2
HCM LOS			F

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SELn1	SELn2
Capacity (veh/h)	730	-	-	-	231	381
HCM Lane V/C Ratio	0.101	-	-	-	0.085	1.001
HCM Control Delay (s)	10.5	0	-	-	22	80
HCM Lane LOS	B	A	-	-	C	F
HCM 95th %tile Q(veh)	0.3	-	-	-	0.3	12

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Intersection	
Int Delay, s/veh	1.6

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	4	14	39	213	49	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	4	15	42	232	53	1

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	274	0	-	0	182	158
Stage 1	-	-	-	-	158	-
Stage 2	-	-	-	-	24	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1244	-	-	-	789	867
Stage 1	-	-	-	-	851	-
Stage 2	-	-	-	-	978	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1244	-	-	-	787	867
Mov Cap-2 Maneuver	-	-	-	-	787	-
Stage 1	-	-	-	-	851	-
Stage 2	-	-	-	-	975	-

Approach	EB	WB	SB
HCM Control Delay, s	1.8	0	9.9
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1244	-	-	-	788
HCM Lane V/C Ratio	0.003	-	-	-	0.069
HCM Control Delay (s)	7.9	0	-	-	9.9
HCM Lane LOS	A	A	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	0.2

Intersection	
Int Delay, s/veh	152.8

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	11	11	50	6	230	340	91	403	2	42	174	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	170	-	-	162	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	12	12	54	7	250	370	99	438	2	46	189	0

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	1227	918	189	951	917	439	189	0	0	440	0	0
Stage 1	280	280	-	637	637	-	-	-	-	-	-	-
Stage 2	947	638	-	314	280	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.2	6.6	6.3	4.2	-	-	4.2	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.59	4.09	3.39	2.29	-	-	2.29	-	-
Pot Cap-1 Maneuver	149	263	833	232	264	601	1338	-	-	1079	-	-
Stage 1	710	665	-	452	459	-	-	-	-	-	-	-
Stage 2	303	459	-	680	665	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	-	233	833	190 ~	234	601	1338	-	-	1079	-	-
Mov Cap-2 Maneuver	-	233	-	190 ~	234	-	-	-	-	-	-	-
Stage 1	657	637	-	419	425	-	-	-	-	-	-	-
Stage 2	44	425	-	597	637	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s		$ 358.9	1.5	1.6
HCM LOS	-	F		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1338	-	-	-	365	1079	-	-
HCM Lane V/C Ratio	0.074	-	-	-	1.715	0.042	-	-
HCM Control Delay (s)	7.9	-	-	-	$ 358.9	8.5	-	-
HCM Lane LOS	A	-	-	-	F	A	-	-
HCM 95th %tile Q(veh)	0.2	-	-	-	38.7	0.1	-	-

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Intersection	
Intersection Delay, s/veh	8.7
Intersection LOS	A

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	SBU	SBL	SBR
Vol, veh/h	0	0	40	0	0	0	228	0	0	0	3
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	0	43	0	0	0	248	0	0	0	3
Number of Lanes	0	0	1	0	0	0	1	0	0	1	0

Approach	EB	WB
Opposing Approach	WB	EB
Opposing Lanes	1	1
Conflicting Approach Left	SB	
Conflicting Lanes Left	1	0
Conflicting Approach Right		SB
Conflicting Lanes Right	0	1
HCM Control Delay	7.7	9
HCM LOS	A	A

Lane	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	0%	94%
Vol Thru, %	100%	100%	0%
Vol Right, %	0%	0%	6%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	40	228	51
LT Vol	0	0	48
Through Vol	40	228	0
RT Vol	0	0	3
Lane Flow Rate	43	248	55
Geometry Grp	1	1	1
Degree of Util (X)	0.054	0.289	0.075
Departure Headway (Hd)	4.464	4.2	4.882
Convergence, Y/N	Yes	Yes	Yes
Cap	807	848	738
Service Time	2.468	2.265	2.884
HCM Lane V/C Ratio	0.053	0.292	0.075
HCM Control Delay	7.7	9	8.3
HCM Lane LOS	A	A	A
HCM 95th-tile Q	0.2	1.2	0.2

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	NWU	NWL	NWR
Vol, veh/h	0	0	0
Peak Hour Factor	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10
Mvmt Flow	0	0	0
Number of Lanes	0	0	0

Approach	
Opposing Approach	
Opposing Lanes	
Conflicting Approach Left	
Conflicting Lanes Left	
Conflicting Approach Right	
Conflicting Lanes Right	
HCM Control Delay	
HCM LOS	

Lane

Intersection	
Int Delay, s/veh	2.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBR	SEL	SER
Vol, veh/h	0	92	0	0	113	0	15	55	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	None	-	-
Storage Length	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	0	-	0	-
Grade, %	-	0	-	-	0	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	100	0	0	123	0	16	60	0	0

Major/Minor	Major1			Major2			Minor1		
Conflicting Flow All	123	0	0	100	0	0	223	100	
Stage 1	-	-	-	-	-	-	100	-	
Stage 2	-	-	-	-	-	-	123	-	
Critical Hdwy	4.2	-	-	4.2	-	-	6.5	6.3	
Critical Hdwy Stg 1	-	-	-	-	-	-	5.5	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	5.5	-	
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.59	3.39	
Pot Cap-1 Maneuver	1416	-	-	1444	-	-	748	934	
Stage 1	-	-	-	-	-	-	904	-	
Stage 2	-	-	-	-	-	-	883	-	
Platoon blocked, %		-	-		-	-			
Mov Cap-1 Maneuver	1416	-	-	1444	-	-	748	934	
Mov Cap-2 Maneuver	-	-	-	-	-	-	748	-	
Stage 1	-	-	-	-	-	-	904	-	
Stage 2	-	-	-	-	-	-	883	-	

Approach	EB	WB	NB
HCM Control Delay, s	0	0	9.2
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR
Capacity (veh/h)	934	1416	-	-	1444	-	-
HCM Lane V/C Ratio	0.081	-	-	-	-	-	-
HCM Control Delay (s)	9.2	0	-	-	0	-	-
HCM Lane LOS	A	A	-	-	A	-	-
HCM 95th %tile Q(veh)	0.3	0	-	-	0	-	-

Intersection	
Int Delay, s/veh	3.2

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	8	103	224	464	349	15
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	329	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	9	112	243	504	379	16

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1379	388	396	0	-	0
Stage 1	388	-	-	-	-	-
Stage 2	991	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	153	643	1120	-	-	-
Stage 1	668	-	-	-	-	-
Stage 2	347	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	120	643	1120	-	-	-
Mov Cap-2 Maneuver	120	-	-	-	-	-
Stage 1	668	-	-	-	-	-
Stage 2	272	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	14.8	3	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1120	-	489	-	-
HCM Lane V/C Ratio	0.217	-	0.247	-	-
HCM Control Delay (s)	9.1	-	14.8	-	-
HCM Lane LOS	A	-	B	-	-
HCM 95th %tile Q(veh)	0.8	-	1	-	-

Intersection	
Int Delay, s/veh	4.8

Movement	NBT	NBR	SBL	SBT	NWL	NWR
Vol, veh/h	608	176	123	262	1	204
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	299	-	0	-
Veh in Median Storage, #	0	-	-	0	1	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	661	191	134	285	1	222

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	852	0	1309	757
Stage 1	-	-	-	-	757	-
Stage 2	-	-	-	-	552	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	754	-	169	395
Stage 1	-	-	-	-	449	-
Stage 2	-	-	-	-	561	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	754	-	139	395
Mov Cap-2 Maneuver	-	-	-	-	271	-
Stage 1	-	-	-	-	449	-
Stage 2	-	-	-	-	461	-

Approach	NB	SB	NW
HCM Control Delay, s	0	3.5	25.4
HCM LOS			D

Minor Lane/Major Mvmt	NBT	NBR	NWLn1	SBL	SBT
Capacity (veh/h)	-	-	394	754	-
HCM Lane V/C Ratio	-	-	0.566	0.177	-
HCM Control Delay (s)	-	-	25.4	10.8	-
HCM Lane LOS	-	-	D	B	-
HCM 95th %tile Q(veh)	-	-	3.4	0.6	-

Intersection	
Intersection Delay, s/veh	22.8
Intersection LOS	C

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	54	120	55	0	36	258	59	0	139	219	62
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	59	130	60	0	39	280	64	0	151	238	67
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	1	1	1
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	1	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	1	1
HCM Control Delay	15.3	21.9	29.7
HCM LOS	C	C	D

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	33%	24%	10%	21%
Vol Thru, %	52%	52%	73%	58%
Vol Right, %	15%	24%	17%	21%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	420	229	353	76
LT Vol	139	54	36	16
Through Vol	219	120	258	44
RT Vol	62	55	59	16
Lane Flow Rate	457	249	384	83
Geometry Grp	1	1	1	1
Degree of Util (X)	0.797	0.459	0.679	0.166
Departure Headway (Hd)	6.286	6.644	6.366	7.221
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	575	540	568	494
Service Time	4.336	4.708	4.422	5.301
HCM Lane V/C Ratio	0.795	0.461	0.676	0.168
HCM Control Delay	29.7	15.3	21.9	11.7
HCM Lane LOS	D	C	C	B
HCM 95th-tile Q	7.7	2.4	5.2	0.6

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	16	44	16
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10
Mvmt Flow	0	17	48	17
Number of Lanes	0	0	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	1
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	11.7
HCM LOS	B

Lane

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	9	426	17	67	1038	23	200	296	91	3	74	9
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	10	463	18	73	1128	25	217	322	99	3	80	10
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	16	576	258	349	1240	555	250	764	650	5	507	431
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.01	0.18	0.18	0.21	0.38	0.38	0.15	0.44	0.44	0.00	0.29	0.29
Ln Grp Delay, s/veh	80.8	40.7	17.0	31.3	33.2	18.9	57.0	20.0	4.0	119.1	25.8	24.2
Ln Grp LOS	F	D	B	C	C	B	E	C	A	F	C	C
Approach Vol, veh/h		491			1226			638			93	
Approach Delay, s/veh		40.6			32.8			30.1			28.6	
Approach LOS		D			C			C			C	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	5	6	7	8
Case No	2.0	3.0	3.0	2.0	2.0	3.0	2.0	3.0
Phs Duration (G+Y+Rc), s	4.3	46.5	20.9	24.4	18.6	32.2	4.9	40.3
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	4.0	32.0	34.0	10.0	19.0	17.0	4.0	40.0
Max Allow Headway (MAH), s	4.1	4.1	4.0	4.0	4.1	4.1	4.1	4.0
Max Q Clear (g_c+I1), s	2.2	14.3	15.0	5.5	14.4	5.3	2.6	33.3
Green Ext Time (g_e), s	0.0	1.7	1.9	2.3	0.3	1.5	0.0	3.0
Prob of Phs Call (p_c)	0.08	1.00	1.00	0.86	1.00	1.00	0.23	1.00
Prob of Max Out (p_x)	1.00	0.00	0.00	0.93	0.70	0.05	1.00	0.64

Left-Turn Movement Data								
Assigned Mvmt	1			3	5		7	
Mvmt Sat Flow, veh/h	1645			1645	1645		1645	

Through Movement Data								
Assigned Mvmt		2	4			6		8
Mvmt Sat Flow, veh/h		1727	3282			1727		3282

Right-Turn Movement Data								
Assigned Mvmt		12	14			16		18
Mvmt Sat Flow, veh/h		1468	1468			1468		1468

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	5	0	7	0
Lane Assignment	(Prot)			(Prot)	(Prot)		(Prot)	
Lanes in Grp	1	0	0	1	1	0	1	0

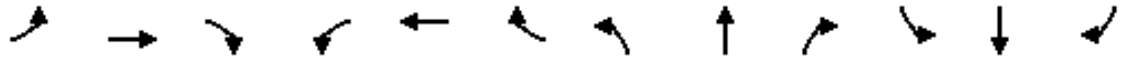
Grp Vol (v), veh/h	3	0	0	73	217	0	10	0
Grp Sat Flow (s), veh/h/ln	1645	0	0	1645	1645	0	1645	0
Q Serve Time (g_s), s	0.2	0.0	0.0	3.5	12.4	0.0	0.6	0.0
Cycle Q Clear Time (g_c), s	0.2	0.0	0.0	3.5	12.4	0.0	0.6	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	5	0	0	349	250	0	16	0
V/C Ratio (X)	0.57	0.00	0.00	0.21	0.87	0.00	0.62	0.00
Avail Cap (c_a), veh/h	69	0	0	349	326	0	69	0
Upstream Filter (I)	1.00	0.00	0.00	0.52	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	47.8	0.0	0.0	31.2	39.7	0.0	47.4	0.0
Incr Delay (d2), s/veh	71.3	0.0	0.0	0.2	17.3	0.0	33.5	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	119.1	0.0	0.0	31.3	57.0	0.0	80.8	0.0
1st-Term Q (Q1), veh/ln	0.1	0.0	0.0	1.6	5.6	0.0	0.3	0.0
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.0	0.0	1.2	0.0	0.1	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.2	0.0	0.0	1.6	6.8	0.0	0.4	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	0	6	0	8
Lane Assignment		T	T			T		T
Lanes in Grp	0	1	2	0	0	1	0	2
Grp Vol (v), veh/h	0	322	463	0	0	80	0	1128
Grp Sat Flow (s), veh/h/ln	0	1727	1641	0	0	1727	0	1641
Q Serve Time (g_s), s	0.0	12.3	13.0	0.0	0.0	3.3	0.0	31.3
Cycle Q Clear Time (g_c), s	0.0	12.3	13.0	0.0	0.0	3.3	0.0	31.3
Lane Grp Cap (c), veh/h	0	764	576	0	0	507	0	1240
V/C Ratio (X)	0.00	0.42	0.80	0.00	0.00	0.16	0.00	0.91
Avail Cap (c_a), veh/h	0	764	1162	0	0	507	0	1367
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.52
Uniform Delay (d1), s/veh	0.0	18.3	38.0	0.0	0.0	25.1	0.0	28.3
Incr Delay (d2), s/veh	0.0	1.7	2.7	0.0	0.0	0.7	0.0	4.9
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	20.0	40.7	0.0	0.0	25.8	0.0	33.2
1st-Term Q (Q1), veh/ln	0.0	5.8	5.9	0.0	0.0	1.6	0.0	14.1
2nd-Term Q (Q2), veh/ln	0.0	0.4	0.2	0.0	0.0	0.1	0.0	0.8

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	6.2	6.1	0.0	0.0	1.7	0.0	14.9
%ile Storage Ratio (RQ%)	0.00	0.07	0.03	0.00	0.00	0.00	0.00	0.03
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	14	0	0	16	0	18
Lane Assignment		R	R			R		R
Lanes in Grp	0	1	1	0	0	1	0	1
Grp Vol (v), veh/h	0	99	18	0	0	10	0	25
Grp Sat Flow (s), veh/h/ln	0	1468	1468	0	0	1468	0	1468
Q Serve Time (g_s), s	0.0	1.8	0.7	0.0	0.0	0.5	0.0	1.0
Cycle Q Clear Time (g_c), s	0.0	1.8	0.7	0.0	0.0	0.5	0.0	1.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	650	258	0	0	431	0	555
V/C Ratio (X)	0.00	0.15	0.07	0.00	0.00	0.02	0.00	0.05
Avail Cap (c_a), veh/h	0	650	520	0	0	431	0	612
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.52
Uniform Delay (d1), s/veh	0.0	3.5	16.9	0.0	0.0	24.1	0.0	18.9
Incr Delay (d2), s/veh	0.0	0.5	0.1	0.0	0.0	0.1	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	4.0	17.0	0.0	0.0	24.2	0.0	18.9
1st-Term Q (Q1), veh/ln	0.0	0.7	0.3	0.0	0.0	0.2	0.0	0.4
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.8	0.3	0.0	0.0	0.2	0.0	0.4
%ile Storage Ratio (RQ%)	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	33.5
HCM 2010 LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	9	426	17	67	1038	23	200	296	91	3	74	9
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	10	463	18	73	1128	25	217	322	99	3	80	10
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	16	576	258	349	1240	555	250	764	650	5	507	431
Arrive On Green	0.01	0.18	0.18	0.21	0.38	0.38	0.15	0.44	0.44	0.00	0.29	0.29
Sat Flow, veh/h	1645	3282	1468	1645	3282	1468	1645	1727	1468	1645	1727	1468
Grp Volume(v), veh/h	10	463	18	73	1128	25	217	322	99	3	80	10
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1641	1468	1645	1727	1468	1645	1727	1468
Q Serve(g_s), s	0.6	13.0	0.7	3.5	31.3	1.0	12.4	12.3	1.8	0.2	3.3	0.5
Cycle Q Clear(g_c), s	0.6	13.0	0.7	3.5	31.3	1.0	12.4	12.3	1.8	0.2	3.3	0.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	16	576	258	349	1240	555	250	764	650	5	507	431
V/C Ratio(X)	0.62	0.80	0.07	0.21	0.91	0.05	0.87	0.42	0.15	0.57	0.16	0.02
Avail Cap(c_a), veh/h	69	1162	520	349	1367	612	326	764	650	69	507	431
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.52	0.52	0.52	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	47.4	38.0	16.9	31.2	28.3	18.9	39.7	18.3	3.5	47.8	25.1	24.1
Incr Delay (d2), s/veh	33.5	2.7	0.1	0.2	4.9	0.0	17.3	1.7	0.5	71.3	0.7	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	6.1	0.3	1.6	14.9	0.4	6.8	6.2	0.8	0.2	1.7	0.2
LnGrp Delay(d),s/veh	80.8	40.7	17.0	31.3	33.2	18.9	57.0	20.0	4.0	119.1	25.8	24.2
LnGrp LOS	F	D	B	C	C	B	E	C	A	F	C	C
Approach Vol, veh/h		491			1226			638			93	
Approach Delay, s/veh		40.6			32.8			30.1			28.6	
Approach LOS		D			C			C			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	4.3	46.5	24.4	20.9	18.6	32.2	4.9	40.3
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax),4s	0	32.0	10.0	34.0	19.0	17.0	4.0	40.0
Max Q Clear Time (g_c+I1),2s	2	14.3	5.5	15.0	14.4	5.3	2.6	33.3
Green Ext Time (p_c), s	0.0	1.7	2.3	1.9	0.3	1.5	0.0	3.0

Intersection Summary	
HCM 2010 Ctrl Delay	33.5
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	534	25	206	1111	2	111	0	815	5	3	0
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	580	27	224	1208	2	121	0	886	5	3	0
Adj No. of Lanes	1	2	1	1	2	0	2	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	75	615	275	253	1288	2	1437	411	349	418	72	61
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.00	0.19	0.19	0.15	0.38	0.38	0.45	0.00	0.24	0.25	0.04	0.00
Ln Grp Delay, s/veh	0.0	59.1	3.9	64.0	47.4	46.7	15.1	0.0	715.9	26.8	44.4	0.0
Ln Grp LOS		E	A	E	D	D	B		F	C	D	
Approach Vol, veh/h		607			1434			1007			8	
Approach Delay, s/veh		56.6			49.7			631.7			33.4	
Approach LOS		E			D			F			C	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	6	5		8
Case No	3.0	2.0	2.0	5.0	3.0	2.0		4.0
Phs Duration (G+Y+Rc), s	26.8	28.4	18.8	22.0	8.0	47.2		40.8
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0		4.0
Max Green (Gmax), s	43.0	4.0	15.0	18.0	40.0	7.0		37.0
Max Allow Headway (MAH), s	4.4	4.1	4.1	4.0	4.0	4.1		4.0
Max Q Clear (g_c+I1), s	17.7	2.2	14.8	18.7	2.2	4.1		35.2
Green Ext Time (g_e), s	5.1	0.0	0.0	0.0	0.0	0.1		1.3
Prob of Phs Call (p_c)	1.00	0.12	1.00	1.00	1.00	0.96		1.00
Prob of Max Out (p_x)	0.03	1.00	1.00	1.00	0.00	1.00		1.00

Left-Turn Movement Data								
Assigned Mvmt		1	3	7		5		
Mvmt Sat Flow, veh/h		1645	1645	426		3191		

Through Movement Data								
Assigned Mvmt	2			4	6			8
Mvmt Sat Flow, veh/h	1727			3282	1727			3362

Right-Turn Movement Data								
Assigned Mvmt	12			14	16			18
Mvmt Sat Flow, veh/h	1468			1468	1468			6

Left Lane Group Data								
Assigned Mvmt	0	1	3	7	0	5	0	0
Lane Assignment		(Prot)	(Prot)			(Prot)		
Lanes in Grp	0	1	1	1	0	2	0	0

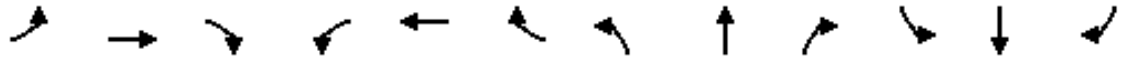
Grp Vol (v), veh/h	0	5	224	0	0	121	0	0
Grp Sat Flow (s), veh/h/ln	0	1645	1645	426	0	1596	0	0
Q Serve Time (g_s), s	0.0	0.2	12.8	0.0	0.0	2.1	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.2	12.8	0.0	0.0	2.1	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	426	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	1.00	0.00	1.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	418	253	75	0	1437	0	0
V/C Ratio (X)	0.00	0.01	0.88	0.00	0.00	0.08	0.00	0.00
Avail Cap (c_a), veh/h	0	418	257	75	0	1437	0	0
Upstream Filter (I)	0.00	1.00	0.82	0.00	0.00	0.75	0.00	0.00
Uniform Delay (d1), s/veh	0.0	26.8	39.8	0.0	0.0	15.1	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	24.2	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	26.8	64.0	0.0	0.0	15.1	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.1	5.8	0.0	0.0	0.9	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	1.00	0.00	1.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.1	7.5	0.0	0.0	0.9	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.03	0.65	0.00	0.00	0.15	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	6	0	0	8
Lane Assignment	T			T	T			T
Lanes in Grp	1	0	0	2	1	0	0	1
Grp Vol (v), veh/h	0	0	0	580	3	0	0	590
Grp Sat Flow (s), veh/h/ln	1727	0	0	1641	1727	0	0	1641
Q Serve Time (g_s), s	0.0	0.0	0.0	16.7	0.2	0.0	0.0	33.2
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	16.7	0.2	0.0	0.0	33.2
Lane Grp Cap (c), veh/h	411	0	0	615	72	0	0	629
V/C Ratio (X)	0.00	0.00	0.00	0.94	0.04	0.00	0.00	0.94
Avail Cap (c_a), veh/h	774	0	0	615	720	0	0	632
Upstream Filter (I)	0.00	0.00	0.00	0.85	1.00	0.00	0.00	0.82
Uniform Delay (d1), s/veh	0.0	0.0	0.0	38.5	44.2	0.0	0.0	28.5
Incr Delay (d2), s/veh	0.0	0.0	0.0	20.6	0.2	0.0	0.0	18.9
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	59.1	44.4	0.0	0.0	47.4
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	7.6	0.1	0.0	0.0	15.1
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	1.8	0.0	0.0	0.0	3.3

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	9.3	0.1	0.0	0.0	18.4
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.10
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	0	14	16	0	0	18
Lane Assignment	R			R	R			T+R
Lanes in Grp	1	0	0	1	1	0	0	1
Grp Vol (v), veh/h	886	0	0	27	0	0	0	620
Grp Sat Flow (s), veh/h/ln	1468	0	0	1468	1468	0	0	1726
Q Serve Time (g_s), s	15.7	0.0	0.0	0.5	0.0	0.0	0.0	33.2
Cycle Q Clear Time (g_c), s	15.7	0.0	0.0	0.5	0.0	0.0	0.0	33.2
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	349	0	0	275	61	0	0	661
V/C Ratio (X)	2.54	0.00	0.00	0.10	0.00	0.00	0.00	0.94
Avail Cap (c_a), veh/h	658	0	0	275	612	0	0	665
Upstream Filter (I)	0.75	0.00	0.00	0.85	0.00	0.00	0.00	0.82
Uniform Delay (d1), s/veh	17.4	0.0	0.0	3.8	0.0	0.0	0.0	28.5
Incr Delay (d2), s/veh	698.6	0.0	0.0	0.1	0.0	0.0	0.0	18.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	715.9	0.0	0.0	3.9	0.0	0.0	0.0	46.7
1st-Term Q (Q1), veh/ln	6.3	0.0	0.0	0.2	0.0	0.0	0.0	15.9
2nd-Term Q (Q2), veh/ln	67.7	0.0	0.0	0.0	0.0	0.0	0.0	3.3
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	74.1	0.0	0.0	0.2	0.0	0.0	0.0	19.2
%ile Storage Ratio (RQ%)	19.05	0.00	0.00	0.02	0.00	0.00	0.00	0.10
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	134.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	242.8
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	534	25	206	1111	2	111	0	815	5	3	0
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	580	27	224	1208	2	121	0	886	5	3	0
Adj No. of Lanes	1	2	1	1	2	0	2	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	75	615	275	253	1288	2	1437	411	349	418	72	61
Arrive On Green	0.00	0.19	0.19	0.15	0.38	0.38	0.45	0.00	0.24	0.25	0.04	0.00
Sat Flow, veh/h	426	3282	1468	1645	3362	6	3191	1727	1468	1645	1727	1468
Grp Volume(v), veh/h	0	580	27	224	590	620	121	0	886	5	3	0
Grp Sat Flow(s),veh/h/ln	426	1641	1468	1645	1641	1726	1596	1727	1468	1645	1727	1468
Q Serve(g_s), s	0.0	16.7	0.5	12.8	33.2	33.2	2.1	0.0	15.7	0.2	0.2	0.0
Cycle Q Clear(g_c), s	0.0	16.7	0.5	12.8	33.2	33.2	2.1	0.0	15.7	0.2	0.2	0.0
Prop In Lane	1.00		1.00	1.00		0.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	75	615	275	253	629	661	1437	411	349	418	72	61
V/C Ratio(X)	0.00	0.94	0.10	0.88	0.94	0.94	0.08	0.00	2.54	0.01	0.04	0.00
Avail Cap(c_a), veh/h	75	615	275	257	632	665	1437	774	658	418	720	612
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.85	0.85	0.82	0.82	0.82	0.75	0.00	0.75	1.00	1.00	0.00
Uniform Delay (d), s/veh	0.0	38.5	3.8	39.8	28.5	28.5	15.1	0.0	17.4	26.8	44.2	0.0
Incr Delay (d2), s/veh	0.0	20.6	0.1	24.2	18.9	18.2	0.0	0.0	698.6	0.0	0.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	9.3	0.2	7.5	18.4	19.2	0.9	0.0	74.1	0.1	0.1	0.0
LnGrp Delay(d),s/veh	0.0	59.1	3.9	64.0	47.4	46.7	15.1	0.0	715.9	26.8	44.4	0.0
LnGrp LOS		E	A	E	D	D	B		F	C	D	
Approach Vol, veh/h		607			1434			1007			8	
Approach Delay, s/veh		56.6			49.7			631.7			33.4	
Approach LOS		E			D			F			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6		8
Phs Duration (G+Y+Rc), s	28.4	26.8	18.8	22.0	47.2	8.0		40.8
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	40	43.0	15.0	18.0	7.0	40.0		37.0
Max Q Clear Time (g_c+I1), s	22	17.7	14.8	18.7	4.1	2.2		35.2
Green Ext Time (p_c), s	0.0	5.1	0.0	0.0	0.1	0.0		1.3

Intersection Summary		
HCM 2010 Ctrl Delay		242.8
HCM 2010 LOS		F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	39	1342	54	183	0	109	133	32	437	15	6	17
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	42	1459	59	199	0	118	145	35	475	16	7	18
Adj No. of Lanes	1	2	0	1	2	1	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	772	1440	58	206	341	152	360	22	302	69	18	46
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.47	0.45	0.45	0.13	0.00	0.10	0.22	0.22	0.22	0.04	0.04	0.04
Ln Grp Delay, s/veh	13.9	48.8	49.6	92.3	0.0	49.3	32.8	0.0	307.5	46.2	0.0	61.9
Ln Grp LOS	B	F	F	F		D	C		F	D		E
Approach Vol, veh/h		1560			317			655			41	
Approach Delay, s/veh		48.3			76.3			246.7			55.8	
Approach LOS		D			E			F			E	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	6	5	8	7
Case No	4.0	2.0	2.0	4.0	4.0	2.0	3.0	2.0
Phs Duration (G+Y+Rc), s	25.0	8.0	16.0	47.0	8.0	25.0	14.0	49.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	21.0	4.0	12.0	43.0	16.0	9.0	48.0	7.0
Max Allow Headway (MAH), s	4.3	4.1	4.1	4.0	4.3	4.1	4.4	4.0
Max Q Clear (g_c+I1), s	23.0	2.9	13.6	45.0	3.5	9.2	9.5	3.3
Green Ext Time (g_e), s	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.3
Prob of Phs Call (p_c)	1.00	0.35	1.00	1.00	1.00	0.98	1.00	0.67
Prob of Max Out (p_x)	1.00	1.00	1.00	1.00	0.00	1.00	0.00	1.00

Left-Turn Movement Data								
Assigned Mvmt		1	3			5		7
Mvmt Sat Flow, veh/h		1645	1645			1645		1645

Through Movement Data								
Assigned Mvmt	2			4	6		8	
Mvmt Sat Flow, veh/h	102			3216	429		3282	

Right-Turn Movement Data								
Assigned Mvmt	12			14	16		18	
Mvmt Sat Flow, veh/h	1382			130	1103		1468	

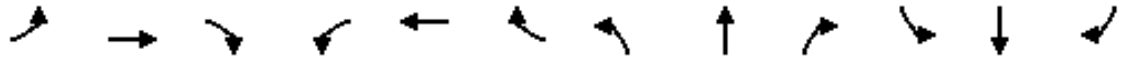
Left Lane Group Data								
Assigned Mvmt	0	1	3	0	0	5	0	7
Lane Assignment		(Prot)	(Prot)			(Prot)		(Prot)
Lanes in Grp	0	1	1	0	0	1	0	1

Grp Vol (v), veh/h	0	16	199	0	0	145	0	42
Grp Sat Flow (s), veh/h/ln	0	1645	1645	0	0	1645	0	1645
Q Serve Time (g_s), s	0.0	0.9	11.6	0.0	0.0	7.2	0.0	1.3
Cycle Q Clear Time (g_c), s	0.0	0.9	11.6	0.0	0.0	7.2	0.0	1.3
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	69	206	0	0	360	0	772
V/C Ratio (X)	0.00	0.23	0.97	0.00	0.00	0.40	0.00	0.05
Avail Cap (c_a), veh/h	0	69	206	0	0	360	0	772
Upstream Filter (I)	0.00	1.00	0.91	0.00	0.00	0.88	0.00	0.35
Uniform Delay (d1), s/veh	0.0	44.5	41.8	0.0	0.0	32.1	0.0	13.9
Incr Delay (d2), s/veh	0.0	1.7	50.5	0.0	0.0	0.6	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	46.2	92.3	0.0	0.0	32.8	0.0	13.9
1st-Term Q (Q1), veh/ln	0.0	0.4	5.3	0.0	0.0	3.3	0.0	0.6
2nd-Term Q (Q2), veh/ln	0.0	0.0	2.9	0.0	0.0	0.1	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.4	8.1	0.0	0.0	3.4	0.0	0.6
%ile Storage Ratio (RQ%)	0.00	0.07	1.13	0.00	0.00	0.78	0.00	0.05
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	6	0	8	0
Lane Assignment				T			T	
Lanes in Grp	0	0	0	1	0	0	2	0
Grp Vol (v), veh/h	0	0	0	743	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1641	0	0	1641	0
Q Serve Time (g_s), s	0.0	0.0	0.0	43.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	43.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	735	0	0	341	0
V/C Ratio (X)	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	735	0	0	1641	0
Upstream Filter (I)	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	26.5	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	22.3	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	48.8	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	19.4	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	4.6	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	24.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	0	14	16	0	18	0
Lane Assignment	T+R			T+R	T+R		R	
Lanes in Grp	1	0	0	1	1	0	1	0
Grp Vol (v), veh/h	510	0	0	775	25	0	118	0
Grp Sat Flow (s), veh/h/ln	1483	0	0	1704	1533	0	1468	0
Q Serve Time (g_s), s	21.0	0.0	0.0	43.0	1.5	0.0	7.5	0.0
Cycle Q Clear Time (g_c), s	21.0	0.0	0.0	43.0	1.5	0.0	7.5	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.93	0.00	0.00	0.08	0.72	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	325	0	0	763	64	0	152	0
V/C Ratio (X)	1.57	0.00	0.00	1.02	0.39	0.00	0.77	0.00
Avail Cap (c_a), veh/h	325	0	0	763	255	0	734	0
Upstream Filter (I)	0.88	0.00	0.00	0.35	1.00	0.00	0.91	0.00
Uniform Delay (d1), s/veh	37.5	0.0	0.0	26.5	44.8	0.0	41.9	0.0
Incr Delay (d2), s/veh	270.0	0.0	0.0	23.1	17.1	0.0	7.4	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	307.5	0.0	0.0	49.6	61.9	0.0	49.3	0.0
1st-Term Q (Q1), veh/ln	8.6	0.0	0.0	20.1	0.6	0.0	3.0	0.0
2nd-Term Q (Q2), veh/ln	24.3	0.0	0.0	4.9	0.3	0.0	0.3	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	32.9	0.0	0.0	25.0	0.9	0.0	3.4	0.0
%ile Storage Ratio (RQ%)	0.04	0.00	0.00	0.13	0.05	0.00	0.48	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	46.4	0.0	0.0	2.9	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.4	0.0	0.0	0.3	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	102.4
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	39	1342	54	183	0	109	133	32	437	15	6	17
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	42	1459	59	199	0	118	145	35	475	16	7	18
Adj No. of Lanes	1	2	0	1	2	1	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	772	1440	58	206	341	152	360	22	302	69	18	46
Arrive On Green	0.47	0.45	0.45	0.13	0.00	0.10	0.22	0.22	0.22	0.04	0.04	0.04
Sat Flow, veh/h	1645	3216	130	1645	3282	1468	1645	102	1382	1645	429	1103
Grp Volume(v), veh/h	42	743	775	199	0	118	145	0	510	16	0	25
Grp Sat Flow(s),veh/h/ln	1645	1641	1704	1645	1641	1468	1645	0	1483	1645	0	1533
Q Serve(g_s), s	1.3	43.0	43.0	11.6	0.0	7.5	7.2	0.0	21.0	0.9	0.0	1.5
Cycle Q Clear(g_c), s	1.3	43.0	43.0	11.6	0.0	7.5	7.2	0.0	21.0	0.9	0.0	1.5
Prop In Lane	1.00		0.08	1.00		1.00	1.00		0.93	1.00		0.72
Lane Grp Cap(c), veh/h	772	735	763	206	341	152	360	0	325	69	0	64
V/C Ratio(X)	0.05	1.01	1.02	0.97	0.00	0.77	0.40	0.00	1.57	0.23	0.00	0.39
Avail Cap(c_a), veh/h	772	735	763	206	1641	734	360	0	325	69	0	255
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.35	0.35	0.35	0.91	0.00	0.91	0.88	0.00	0.88	1.00	0.00	1.00
Uniform Delay (d), s/veh	13.9	26.5	26.5	41.8	0.0	41.9	32.1	0.0	37.5	44.5	0.0	44.8
Incr Delay (d2), s/veh	0.0	22.3	23.1	50.5	0.0	7.4	0.6	0.0	270.0	1.7	0.0	17.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.6	24.0	25.0	8.1	0.0	3.4	3.4	0.0	32.9	0.4	0.0	0.9
LnGrp Delay(d),s/veh	13.9	48.8	49.6	92.3	0.0	49.3	32.8	0.0	307.5	46.2	0.0	61.9
LnGrp LOS	B	F	F	F		D	C		F	D		E
Approach Vol, veh/h		1560			317			655			41	
Approach Delay, s/veh		48.3			76.3			246.7			55.8	
Approach LOS		D			E			F			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.0	25.0	16.0	47.0	25.0	8.0	49.0	14.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	4.0	21.0	12.0	43.0	9.0	16.0	7.0	48.0
Max Q Clear Time (g_c+I1), s	2.9	23.0	13.6	45.0	9.2	3.5	3.3	9.5
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.4

Intersection Summary	
HCM 2010 Ctrl Delay	102.4
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL2	NBL	NBR	SEL	SER	SER2
Lane Configurations												
Volume (veh/h)	2	1930	25	69	919	4	0	52	133	0	0	0
Number	7	4	14	3	8	18	5	5	12	1	16	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	2	2098	27	75	999	4	0	0	145	0	0	0
Adj No. of Lanes	1	2	1	1	2	0	1	1	0	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes	Yes		Yes		
Cap, veh/h	4	1914	856	69	2088	8	411	411	275	2	2	2
HCM Platoon Ratio	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.00	0.58	0.58	0.08	1.00	1.00	0.00	0.00	0.25	0.00	0.00	0.00
Ln Grp Delay, s/veh	59.7	64.1	8.5	160.2	0.2	0.2	0.0	0.0	36.2	0.0	0.0	0.0
Ln Grp LOS	E	F	A	F	A	A			D			
Approach Vol, veh/h		2127			1078		202	202		0		
Approach Delay, s/veh		63.4			11.3		36.2	36.2		0.0		
Approach LOS		E			B		D	D				

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	6	5	7	8
Case No	2.0	4.0	3.0	2.0	3.0	2.0	2.0	4.0
Phs Duration (G+Y+Rc), s	0.0	28.0	60.0	8.0	0.0	28.0	4.2	63.8
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	4.0	16.0	56.0	4.0	16.0	4.0	4.0	56.0
Max Allow Headway (MAH), s	0.0	4.3	4.0	4.0	0.0	0.0	4.1	4.0
Max Q Clear (g_c+I1), s	0.0	12.9	58.0	6.0	0.0	0.0	2.1	2.0
Green Ext Time (g_e), s	0.0	0.2	0.0	0.0	0.0	0.0	0.0	4.5
Prob of Phs Call (p_c)	0.00	1.00	1.00	0.86	0.00	0.00	0.05	1.00
Prob of Max Out (p_x)	0.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00

Left-Turn Movement Data								
Assigned Mvmt	1			3		5	7	
Mvmt Sat Flow, veh/h	1645			1645		1645	1645	

Through Movement Data								
Assigned Mvmt		2	4		6			8
Mvmt Sat Flow, veh/h		433	3282		1727			3352

Right-Turn Movement Data								
Assigned Mvmt		12	14		16			18
Mvmt Sat Flow, veh/h		1100	1468		1468			13

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	0	5	7	0
Lane Assignment	(Prot)			(Prot)		(Prot)	(Prot)	
Lanes in Grp	1	0	0	1	0	1	1	0

Grp Vol (v), veh/h	0	0	0	75	0	0	2	0
Grp Sat Flow (s), veh/h/ln	1645	0	0	1645	0	1645	1645	0
Q Serve Time (g_s), s	0.0	0.0	0.0	4.0	0.0	0.0	0.1	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	4.0	0.0	0.0	0.1	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	2	0	0	69	0	411	4	0
V/C Ratio (X)	0.00	0.00	0.00	1.09	0.00	0.00	0.56	0.00
Avail Cap (c_a), veh/h	69	0	0	69	0	411	69	0
Upstream Filter (I)	0.00	0.00	0.00	0.65	0.00	0.00	0.09	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	44.0	0.0	0.0	47.9	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	115.1	0.0	0.0	11.9	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	160.2	0.0	0.0	59.7	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	1.8	0.0	0.0	0.1	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	4.0	0.0	0.0	0.1	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	6	0	0	8
Lane Assignment			T		T			T
Lanes in Grp	0	0	2	0	1	0	0	1
Grp Vol (v), veh/h	0	0	2098	0	0	0	0	489
Grp Sat Flow (s), veh/h/ln	0	0	1641	0	1727	0	0	1641
Q Serve Time (g_s), s	0.0	0.0	56.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	56.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	1914	0	2	0	0	1022
V/C Ratio (X)	0.00	0.00	1.10	0.00	0.00	0.00	0.00	0.48
Avail Cap (c_a), veh/h	0	0	1914	0	288	0	0	1022
Upstream Filter (I)	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.65
Uniform Delay (d1), s/veh	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	44.1	0.0	0.0	0.0	0.0	0.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	64.1	0.0	0.0	0.0	0.0	0.2
1st-Term Q (Q1), veh/ln	0.0	0.0	25.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	11.7	0.0	0.0	0.0	0.0	0.1

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	36.7	0.0	0.0	0.0	0.0	0.1
%ile Storage Ratio (RQ%)	0.00	0.00	0.65	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	45.9	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	14	0	16	0	0	18
Lane Assignment		T+R	R		R			T+R
Lanes in Grp	0	1	1	0	1	0	0	1
Grp Vol (v), veh/h	0	202	27	0	0	0	0	514
Grp Sat Flow (s), veh/h/ln	0	1533	1468	0	1468	0	0	1725
Q Serve Time (g_s), s	0.0	10.9	0.7	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	10.9	0.7	0.0	0.0	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.72	1.00	0.00	1.00	0.00	0.00	0.01
Lane Grp Cap (c), veh/h	0	383	856	0	2	0	0	1074
V/C Ratio (X)	0.00	0.53	0.03	0.00	0.00	0.00	0.00	0.48
Avail Cap (c_a), veh/h	0	383	856	0	245	0	0	1074
Upstream Filter (I)	0.00	1.00	0.09	0.00	0.00	0.00	0.00	0.65
Uniform Delay (d1), s/veh	0.0	31.1	8.5	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	5.1	0.0	0.0	0.0	0.0	0.0	0.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	36.2	8.5	0.0	0.0	0.0	0.0	0.2
1st-Term Q (Q1), veh/ln	0.0	4.6	0.3	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	5.1	0.3	0.0	0.0	0.0	0.0	0.1
%ile Storage Ratio (RQ%)	0.00	0.04	0.01	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	45.3
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL2	NBL	NBR	SEL	SER	SER2
Lane Configurations												
Volume (veh/h)	2	1930	25	69	919	4	0	52	133	0	0	0
Number	7	4	14	3	8	18	5	5	12	1	16	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	2	2098	27	75	999	4	0	0	145	0	0	0
Adj No. of Lanes	1	2	1	1	2	0	1	1	0	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	4	1914	856	69	2088	8	411	411	275	2	2	2
Arrive On Green	0.00	0.58	0.58	0.08	1.00	1.00	0.00	0.00	0.25	0.00	0.00	0.00
Sat Flow, veh/h	1645	3282	1468	1645	3352	13	1645	1645	1100	1645	1468	1468
Grp Volume(v), veh/h	2	2098	27	75	489	514	0	0	202	0	0	0
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1641	1725	1645	1645	1533	1645	1468	1468
Q Serve(g_s), s	0.1	56.0	0.7	4.0	0.0	0.0	0.0	0.0	10.9	0.0	0.0	0.0
Cycle Q Clear(g_c), s	0.1	56.0	0.7	4.0	0.0	0.0	0.0	0.0	10.9	0.0	0.0	0.0
Prop In Lane	1.00		1.00	1.00		0.01	1.00	1.00	0.72	1.00	1.00	1.00
Lane Grp Cap(c), veh/h	4	1914	856	69	1022	1074	411	411	383	2	2	2
V/C Ratio(X)	0.56	1.10	0.03	1.09	0.48	0.48	0.00	0.00	0.53	0.00	0.00	0.00
Avail Cap(c_a), veh/h	69	1914	856	69	1022	1074	411	411	383	69	245	245
HCM Platoon Ratio	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.09	0.09	0.09	0.65	0.65	0.65	0.00	0.00	1.00	0.00	0.00	0.00
Uniform Delay (d), s/veh	47.9	20.0	8.5	44.0	0.0	0.0	0.0	0.0	31.1	0.0	0.0	0.0
Incr Delay (d2), s/veh	11.9	44.1	0.0	115.1	0.2	0.2	0.0	0.0	5.1	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	36.7	0.3	4.0	0.1	0.1	0.0	0.0	5.1	0.0	0.0	0.0
LnGrp Delay(d),s/veh	59.7	64.1	8.5	160.2	0.2	0.2	0.0	0.0	36.2	0.0	0.0	0.0
LnGrp LOS	E	F	A	F	A	A			D			
Approach Vol, veh/h		2127			1078		202	202		0		
Approach Delay, s/veh		63.4			11.3		36.2	36.2		0.0		
Approach LOS		E			B		D	D				

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	0.0	28.0	8.0	60.0	28.0	0.0	4.2	63.8
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	4.0	16.0	4.0	56.0	4.0	16.0	4.0	56.0
Max Q Clear Time (g_c+I1), s	0.0	12.9	6.0	58.0	0.0	0.0	2.1	2.0
Green Ext Time (p_c), s	0.0	0.2	0.0	0.0	0.0	0.0	0.0	4.5

Intersection Summary	
HCM 2010 Ctrl Delay	45.3
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL2	SBL	SBR	NWL	NWR	NWR2
Lane Configurations												
Volume (veh/h)	180	1055	410	0	841	56	0	59	50	0	0	0
Number	7	4	14	3	8	18	1	1	16	5	12	12
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	0	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	196	1147	446	0	914	61	0	0	54	0	0	0
Adj No. of Lanes	1	2	1	0	3	1	2	2	1	2	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	0	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			No			Yes	Yes		Yes		
Cap, veh/h	339	1607	719	0	1142	356	150	150	627	150	627	627
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.21	0.49	0.49	0.00	0.24	0.24	0.00	0.00	0.43	0.00	0.00	0.00
Ln Grp Delay, s/veh	34.6	19.3	18.1	0.0	35.4	28.9	0.0	0.0	16.4	0.0	0.0	0.0
Ln Grp LOS	C	B	B		D	C			B			
Approach Vol, veh/h		1789			975		54	54		0		
Approach Delay, s/veh		20.7			35.0		16.4	16.4		0.0		
Approach LOS		C			D		B	B				

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6	8	7
Case No		5.0		3.0		5.0	7.0	2.0
Phs Duration (G+Y+Rc), s		45.0		51.0		45.0	27.2	23.8
Change Period (Y+Rc), s		4.0		4.0		4.0	4.0	4.0
Max Green (Gmax), s		23.0		65.0		23.0	33.0	28.0
Max Allow Headway (MAH), s		0.0		4.1		4.4	4.0	4.1
Max Q Clear (g_c+I1), s		0.0		28.3		4.1	19.5	12.3
Green Ext Time (g_e), s		0.0		10.4		0.1	3.8	7.6
Prob of Phs Call (p_c)		1.00		1.00		1.00	1.00	0.99
Prob of Max Out (p_x)		0.00		0.07		0.00	0.11	0.38

Left-Turn Movement Data								
Assigned Mvmt		5				1	3	7
Mvmt Sat Flow, veh/h		2282				3191	0	1645

Through Movement Data								
Assigned Mvmt		2		4		6	8	
Mvmt Sat Flow, veh/h		3040		3282		0	4871	

Right-Turn Movement Data								
Assigned Mvmt		12		14		16	18	
Mvmt Sat Flow, veh/h		1468		1468		1468	1468	

Left Lane Group Data								
Assigned Mvmt	0	5	0	0	0	1	3	7
Lane Assignment								(Prot)
Lanes in Grp	0	2	0	0	0	2	0	1

Grp Vol (v), veh/h	0	0	0	0	0	0	0	196
Grp Sat Flow (s), veh/h/ln	0	1141	0	0	0	1596	0	1645
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3
Perm LT Sat Flow (s_l), veh/h/ln	0	1141	0	0	0	1596	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	23.2	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	150	0	0	0	150	0	339
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58
Avail Cap (c_a), veh/h	0	150	0	0	0	150	0	480
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.4
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.6
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	8	0
Lane Assignment		T		T			T	
Lanes in Grp	0	2	0	2	0	0	3	0
Grp Vol (v), veh/h	0	0	0	1147	0	0	914	0
Grp Sat Flow (s), veh/h/ln	0	1520	0	1641	0	0	1572	0
Q Serve Time (g_s), s	0.0	0.0	0.0	26.3	0.0	0.0	17.5	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	26.3	0.0	0.0	17.5	0.0
Lane Grp Cap (c), veh/h	0	1298	0	1607	0	0	1142	0
V/C Ratio (X)	0.00	0.00	0.00	0.71	0.00	0.00	0.80	0.00
Avail Cap (c_a), veh/h	0	1298	0	2222	0	0	1621	0
Upstream Filter (I)	0.00	0.00	0.00	0.13	0.00	0.00	0.64	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	19.2	0.0	0.0	34.2	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.1	0.0	0.0	1.3	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	19.3	0.0	0.0	35.4	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	11.8	0.0	0.0	7.6	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	11.8	0.0	0.0	7.7	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.24	0.00	0.00	0.11	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	18	0
Lane Assignment		R		R		R	R	
Lanes in Grp	0	1	0	1	0	1	1	0
Grp Vol (v), veh/h	0	0	0	446	0	54	61	0
Grp Sat Flow (s), veh/h/ln	0	1468	0	1468	0	1468	1468	0
Q Serve Time (g_s), s	0.0	0.0	0.0	21.4	0.0	2.1	3.2	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	21.4	0.0	2.1	3.2	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	627	0	719	0	627	356	0
V/C Ratio (X)	0.00	0.00	0.00	0.62	0.00	0.09	0.17	0.00
Avail Cap (c_a), veh/h	0	627	0	994	0	627	505	0
Upstream Filter (I)	0.00	0.00	0.00	0.13	0.00	1.00	0.64	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	17.9	0.0	16.4	28.8	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	18.1	0.0	16.4	28.9	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	8.5	0.0	2.3	1.3	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	8.6	0.0	2.3	1.3	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.18	0.00	0.03	0.16	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	25.6
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL2	SBL	SBR	NWL	NWR	NWR2
Lane Configurations												
Volume (veh/h)	180	1055	410	0	841	56	0	59	50	0	0	0
Number	7	4	14	3	8	18	1	1	16	5	12	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	0	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	196	1147	446	0	914	61	0	0	54	0	0	0
Adj No. of Lanes	1	2	1	0	3	1	2	2	1	2	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	0	10	10	10	10	10	10	10	10
Cap, veh/h	339	1607	719	0	1142	356	150	150	627	150	627	627
Arrive On Green	0.21	0.49	0.49	0.00	0.24	0.24	0.00	0.00	0.43	0.00	0.00	0.00
Sat Flow, veh/h	1645	3282	1468	0	4871	1468	3191	3191	1468	2282	1468	1468
Grp Volume(v), veh/h	196	1147	446	0	914	61	0	0	54	0	0	0
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	0	1572	1468	1596	1596	1468	1141	1468	1468
Q Serve(g_s), s	10.3	26.3	21.4	0.0	17.5	3.2	0.0	0.0	2.1	0.0	0.0	0.0
Cycle Q Clear(g_c), s	10.3	26.3	21.4	0.0	17.5	3.2	0.0	0.0	2.1	0.0	0.0	0.0
Prop In Lane	1.00		1.00	0.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lane Grp Cap(c), veh/h	339	1607	719	0	1142	356	150	150	627	150	627	627
V/C Ratio(X)	0.58	0.71	0.62	0.00	0.80	0.17	0.00	0.00	0.09	0.00	0.00	0.00
Avail Cap(c_a), veh/h	480	2222	994	0	1621	505	150	150	627	150	627	627
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.13	0.13	0.13	0.00	0.64	0.64	0.00	0.00	1.00	0.00	0.00	0.00
Uniform Delay (d), s/veh	34.4	19.2	17.9	0.0	34.2	28.8	0.0	0.0	16.4	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.2	0.1	0.1	0.0	1.3	0.1	0.0	0.0	0.1	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.7	11.8	8.6	0.0	7.7	1.3	0.0	0.0	2.3	0.0	0.0	0.0
LnGrp Delay(d),s/veh	34.6	19.3	18.1	0.0	35.4	28.9	0.0	0.0	16.4	0.0	0.0	0.0
LnGrp LOS	C	B	B		D	C			B			
Approach Vol, veh/h		1789			975		54	54		0		
Approach Delay, s/veh		20.7			35.0		16.4	16.4		0.0		
Approach LOS		C			D		B	B				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6	7	8
Phs Duration (G+Y+Rc), s		45.0		51.0		45.0	23.8	27.2
Change Period (Y+Rc), s		4.0		4.0		4.0	4.0	4.0
Max Green Setting (Gmax), s		23.0		65.0		23.0	28.0	33.0
Max Q Clear Time (g_c+I1), s		0.0		28.3		4.1	12.3	19.5
Green Ext Time (p_c), s		0.0		10.4		0.1	7.6	3.8

Intersection Summary	
HCM 2010 Ctrl Delay	25.6
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	233	750	114	299	792	99	71	338	97	156	474	241
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	253	815	124	325	861	108	77	367	105	170	515	262
Adj No. of Lanes	2	2	1	2	2	1	2	1	1	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	539	1060	474	588	1111	497	124	437	372	232	942	421
HCM Platoon Ratio	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.06	0.11	0.11	0.18	0.34	0.34	0.04	0.25	0.25	0.07	0.29	0.29
Ln Grp Delay, s/veh	41.5	42.7	22.5	36.7	32.0	22.9	50.4	44.7	12.3	52.1	29.4	31.8
Ln Grp LOS	D	D	C	D	C	C	D	D	B	D	C	C
Approach Vol, veh/h		1192			1294			549			947	
Approach Delay, s/veh		40.4			32.4			39.3			34.2	
Approach LOS		D			C			D			C	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	5	6	7	8
Case No	2.0	3.0	3.0	2.0	2.0	3.0	2.0	3.0
Phs Duration (G+Y+Rc), s	11.0	28.3	35.0	21.7	7.7	31.6	20.2	36.5
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	8.0	28.0	31.0	13.0	5.0	31.0	13.0	31.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	7.0	21.3	25.2	10.9	4.3	16.9	9.4	24.6
Green Ext Time (g_e), s	0.1	3.0	2.2	0.3	0.0	4.5	0.3	3.1
Prob of Phs Call (p_c)	0.99	1.00	1.00	1.00	0.87	1.00	1.00	1.00
Prob of Max Out (p_x)	1.00	0.67	0.00	1.00	1.00	0.21	1.00	0.70

Left-Turn Movement Data								
Assigned Mvmt	1			3	5		7	
Mvmt Sat Flow, veh/h	3191			3191	3191		3191	

Through Movement Data								
Assigned Mvmt		2	4			6		8
Mvmt Sat Flow, veh/h		1727	3282			3282		3282

Right-Turn Movement Data								
Assigned Mvmt		12	14			16		18
Mvmt Sat Flow, veh/h		1468	1468			1468		1468

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	5	0	7	0
Lane Assignment	(Prot)			(Prot)	(Prot)		(Prot)	
Lanes in Grp	2	0	0	2	2	0	2	0

Grp Vol (v), veh/h	170	0	0	325	77	0	253	0
Grp Sat Flow (s), veh/h/ln	1596	0	0	1596	1596	0	1596	0
Q Serve Time (g_s), s	5.0	0.0	0.0	8.9	2.3	0.0	7.4	0.0
Cycle Q Clear Time (g_c), s	5.0	0.0	0.0	8.9	2.3	0.0	7.4	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	232	0	0	588	124	0	539	0
V/C Ratio (X)	0.73	0.00	0.00	0.55	0.62	0.00	0.47	0.00
Avail Cap (c_a), veh/h	266	0	0	588	166	0	539	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	1.00	0.00	0.61	0.00
Uniform Delay (d1), s/veh	43.6	0.0	0.0	35.6	45.4	0.0	41.2	0.0
Incr Delay (d2), s/veh	8.6	0.0	0.0	1.1	4.9	0.0	0.4	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	52.1	0.0	0.0	36.7	50.4	0.0	41.5	0.0
1st-Term Q (Q1), veh/ln	2.2	0.0	0.0	3.9	1.0	0.0	3.3	0.0
2nd-Term Q (Q2), veh/ln	0.3	0.0	0.0	0.1	0.1	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	2.5	0.0	0.0	4.0	1.1	0.0	3.3	0.0
%ile Storage Ratio (RQ%)	0.28	0.00	0.00	0.49	0.06	0.00	0.42	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	0	6	0	8
Lane Assignment		T	T			T		T
Lanes in Grp	0	1	2	0	0	2	0	2
Grp Vol (v), veh/h	0	367	815	0	0	515	0	861
Grp Sat Flow (s), veh/h/ln	0	1727	1641	0	0	1641	0	1641
Q Serve Time (g_s), s	0.0	19.3	23.2	0.0	0.0	12.7	0.0	22.6
Cycle Q Clear Time (g_c), s	0.0	19.3	23.2	0.0	0.0	12.7	0.0	22.6
Lane Grp Cap (c), veh/h	0	437	1060	0	0	942	0	1111
V/C Ratio (X)	0.00	0.84	0.77	0.00	0.00	0.55	0.00	0.78
Avail Cap (c_a), veh/h	0	504	1060	0	0	1060	0	1111
Upstream Filter (I)	0.00	1.00	0.61	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	34.0	39.4	0.0	0.0	28.9	0.0	28.5
Incr Delay (d2), s/veh	0.0	10.7	3.3	0.0	0.0	0.5	0.0	3.5
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	44.7	42.7	0.0	0.0	29.4	0.0	32.0
1st-Term Q (Q1), veh/ln	0.0	9.2	10.6	0.0	0.0	5.8	0.0	10.2
2nd-Term Q (Q2), veh/ln	0.0	1.3	0.5	0.0	0.0	0.1	0.0	0.5

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	10.5	11.1	0.0	0.0	5.9	0.0	10.7
%ile Storage Ratio (RQ%)	0.00	0.08	0.15	0.00	0.00	0.01	0.00	0.03
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	14	0	0	16	0	18
Lane Assignment		R	R			R		R
Lanes in Grp	0	1	1	0	0	1	0	1
Grp Vol (v), veh/h	0	105	124	0	0	262	0	108
Grp Sat Flow (s), veh/h/ln	0	1468	1468	0	0	1468	0	1468
Q Serve Time (g_s), s	0.0	3.5	6.1	0.0	0.0	14.9	0.0	5.0
Cycle Q Clear Time (g_c), s	0.0	3.5	6.1	0.0	0.0	14.9	0.0	5.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	372	474	0	0	421	0	497
V/C Ratio (X)	0.00	0.28	0.26	0.00	0.00	0.62	0.00	0.22
Avail Cap (c_a), veh/h	0	428	474	0	0	474	0	497
Upstream Filter (I)	0.00	1.00	0.61	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	11.9	21.7	0.0	0.0	29.7	0.0	22.7
Incr Delay (d2), s/veh	0.0	0.4	0.8	0.0	0.0	2.1	0.0	0.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	12.3	22.5	0.0	0.0	31.8	0.0	22.9
1st-Term Q (Q1), veh/ln	0.0	1.4	2.5	0.0	0.0	6.0	0.0	2.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.1	0.0	0.0	0.2	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.5	2.6	0.0	0.0	6.2	0.0	2.1
%ile Storage Ratio (RQ%)	0.00	0.12	0.34	0.00	0.00	0.69	0.00	0.25
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	36.2
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	233	750	114	299	792	99	71	338	97	156	474	241
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	253	815	124	325	861	108	77	367	105	170	515	262
Adj No. of Lanes	2	2	1	2	2	1	2	1	1	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	539	1060	474	588	1111	497	124	437	372	232	942	421
Arrive On Green	0.06	0.11	0.11	0.18	0.34	0.34	0.04	0.25	0.25	0.07	0.29	0.29
Sat Flow, veh/h	3191	3282	1468	3191	3282	1468	3191	1727	1468	3191	3282	1468
Grp Volume(v), veh/h	253	815	124	325	861	108	77	367	105	170	515	262
Grp Sat Flow(s),veh/h/ln	1596	1641	1468	1596	1641	1468	1596	1727	1468	1596	1641	1468
Q Serve(g_s), s	7.4	23.2	6.1	8.9	22.6	5.0	2.3	19.3	3.5	5.0	12.7	14.9
Cycle Q Clear(g_c), s	7.4	23.2	6.1	8.9	22.6	5.0	2.3	19.3	3.5	5.0	12.7	14.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	539	1060	474	588	1111	497	124	437	372	232	942	421
V/C Ratio(X)	0.47	0.77	0.26	0.55	0.78	0.22	0.62	0.84	0.28	0.73	0.55	0.62
Avail Cap(c_a), veh/h	539	1060	474	588	1111	497	166	504	428	266	1060	474
HCM Platoon Ratio	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.61	0.61	0.61	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	41.2	39.4	21.7	35.6	28.5	22.7	45.4	34.0	11.9	43.6	28.9	29.7
Incr Delay (d2), s/veh	0.4	3.3	0.8	1.1	3.5	0.2	4.9	10.7	0.4	8.6	0.5	2.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.3	11.1	2.6	4.0	10.7	2.1	1.1	10.5	1.5	2.5	5.9	6.2
LnGrp Delay(d),s/veh	41.5	42.7	22.5	36.7	32.0	22.9	50.4	44.7	12.3	52.1	29.4	31.8
LnGrp LOS	D	D	C	D	C	C	D	D	B	D	C	C
Approach Vol, veh/h		1192			1294			549			947	
Approach Delay, s/veh		40.4			32.4			39.3			34.2	
Approach LOS		D			C			D			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.0	28.3	21.7	35.0	7.7	31.6	20.2	36.5
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	8.0	28.0	13.0	31.0	5.0	31.0	13.0	31.0
Max Q Clear Time (g_c+I1), s	7.0	21.3	10.9	25.2	4.3	16.9	9.4	24.6
Green Ext Time (p_c), s	0.1	3.0	0.3	2.2	0.0	4.5	0.3	3.1

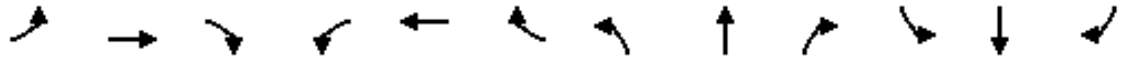
Intersection Summary	
HCM 2010 Ctrl Delay	36.2
HCM 2010 LOS	D

Intersection	
Intersection Delay, s/veh	56
Intersection LOS	F

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Vol, veh/h	0	386	353	86	0	67	397	157	0	73	204	18	0	25	142	147
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	420	384	93	0	73	432	171	0	79	222	20	0	27	154	160
Number of Lanes	0	0	1	1	0	0	1	1	0	0	1	0	0	0	1	1

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	2	2	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	2	1	2	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	2	2	2
HCM Control Delay	69.8	60.4	47.1	19.3
HCM LOS	F	F	E	C

Lane	NBLn1	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1	SBLn2
Vol Left, %	25%	52%	0%	14%	0%	15%	0%
Vol Thru, %	69%	48%	0%	86%	0%	85%	0%
Vol Right, %	6%	0%	100%	0%	100%	0%	100%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	295	739	86	464	157	167	147
LT Vol	73	386	0	67	0	25	0
Through Vol	204	353	0	397	0	142	0
RT Vol	18	0	86	0	157	0	147
Lane Flow Rate	321	803	93	504	171	182	160
Geometry Grp	6	7	7	7	7	7	7
Degree of Util (X)	0.844	1	0.215	1	0.39	0.483	0.391
Departure Headway (Hd)	9.479	9.229	8.263	9.002	8.226	9.587	8.813
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	382	402	437	409	440	376	407
Service Time	7.537	6.93	5.964	6.703	5.927	7.36	6.586
HCM Lane V/C Ratio	0.84	1.998	0.213	1.232	0.389	0.484	0.393
HCM Control Delay	47.1	76.4	13.2	75.4	16.1	21.1	17.2
HCM Lane LOS	E	F	B	F	C	C	C
HCM 95th-tile Q	7.9	12.1	0.8	12.2	1.8	2.5	1.8



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	14	175	20	66	130	26	31	118	53	70	235	14
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	15	190	22	72	141	28	34	128	58	76	255	15
Adj No. of Lanes	1	2	0	1	2	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	23	270	31	97	373	72	925	192	83	965	348	20
HCM Platoon Ratio	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.01	0.09	0.09	0.02	0.04	0.04	0.56	0.09	0.09	0.59	0.11	0.11
Ln Grp Delay, s/veh	71.7	45.5	45.9	53.8	40.3	40.4	8.8	61.1	66.2	8.1	61.4	61.4
Ln Grp LOS	E	D	D	D	D	D	A	E	E	A	E	E
Approach Vol, veh/h		227			241			220			346	
Approach Delay, s/veh		47.4			44.4			55.2			49.7	
Approach LOS		D			D			E			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	6	5	7	8
Case No	4.0	2.0	4.0	2.0	4.0	2.0	2.0	4.0
Phs Duration (G+Y+Rc), s	11.7	56.8	12.2	9.3	13.9	54.6	5.3	16.2
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	21.0	20.0	20.0	13.0	31.0	10.0	8.0	25.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.0	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	7.3	3.8	7.7	5.9	9.1	2.8	2.8	6.6
Green Ext Time (g_e), s	0.5	0.3	0.5	0.4	0.8	0.2	0.0	0.7
Prob of Phs Call (p_c)	1.00	1.00	1.00	0.83	1.00	0.57	0.31	1.00
Prob of Max Out (p_x)	0.00	0.00	0.00	0.14	0.00	0.06	0.16	0.00

Left-Turn Movement Data								
Assigned Mvmt		1		3		5	7	
Mvmt Sat Flow, veh/h		1645		1645		1645	1645	

Through Movement Data								
Assigned Mvmt	2		4		6			8
Mvmt Sat Flow, veh/h	2234		2969		3151			2742

Right-Turn Movement Data								
Assigned Mvmt	12		14		16			18
Mvmt Sat Flow, veh/h	964		340		184			532

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	0	5	7	0
Lane Assignment		(Prot)		(Prot)		(Prot)	(Prot)	
Lanes in Grp	0	1	0	1	0	1	1	0

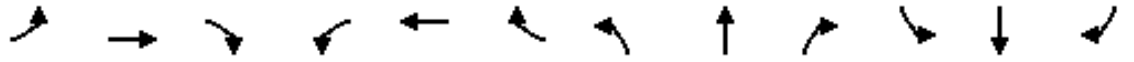
Grp Vol (v), veh/h	0	76	0	72	0	34	15	0
Grp Sat Flow (s), veh/h/ln	0	1645	0	1645	0	1645	1645	0
Q Serve Time (g_s), s	0.0	1.8	0.0	3.9	0.0	0.8	0.8	0.0
Cycle Q Clear Time (g_c), s	0.0	1.8	0.0	3.9	0.0	0.8	0.8	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	965	0	97	0	925	23	0
V/C Ratio (X)	0.00	0.08	0.00	0.74	0.00	0.04	0.66	0.00
Avail Cap (c_a), veh/h	0	965	0	238	0	925	146	0
Upstream Filter (I)	0.00	1.00	0.00	0.98	0.00	1.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	8.1	0.0	43.4	0.0	8.8	44.2	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	10.4	0.0	0.0	27.5	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	8.1	0.0	53.8	0.0	8.8	71.7	0.0
1st-Term Q (Q1), veh/ln	0.0	0.8	0.0	1.8	0.0	0.4	0.4	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.3	0.0	0.0	0.2	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.8	0.0	2.1	0.0	0.4	0.5	0.0
%ile Storage Ratio (RQ%)	0.00	0.17	0.00	0.33	0.00	0.05	0.08	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	6	0	0	8
Lane Assignment	T		T		T			T
Lanes in Grp	1	0	1	0	1	0	0	1
Grp Vol (v), veh/h	92	0	104	0	132	0	0	83
Grp Sat Flow (s), veh/h/ln	1641	0	1641	0	1641	0	0	1641
Q Serve Time (g_s), s	4.9	0.0	5.5	0.0	7.0	0.0	0.0	4.4
Cycle Q Clear Time (g_c), s	4.9	0.0	5.5	0.0	7.0	0.0	0.0	4.4
Lane Grp Cap (c), veh/h	141	0	149	0	181	0	0	223
V/C Ratio (X)	0.65	0.00	0.70	0.00	0.73	0.00	0.00	0.37
Avail Cap (c_a), veh/h	383	0	365	0	565	0	0	456
Upstream Filter (I)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	0.98
Uniform Delay (d1), s/veh	39.8	0.0	39.7	0.0	38.7	0.0	0.0	39.3
Incr Delay (d2), s/veh	21.3	0.0	5.8	0.0	22.7	0.0	0.0	1.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	61.1	0.0	45.5	0.0	61.4	0.0	0.0	40.3
1st-Term Q (Q1), veh/ln	2.2	0.0	2.5	0.0	3.2	0.0	0.0	2.0
2nd-Term Q (Q2), veh/ln	0.8	0.0	0.2	0.0	1.1	0.0	0.0	0.1

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	3.1	0.0	2.8	0.0	4.3	0.0	0.0	2.1
%ile Storage Ratio (RQ%)	0.18	0.00	0.01	0.00	0.01	0.00	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	16	0	0	18
Lane Assignment	T+R		T+R		T+R			T+R
Lanes in Grp	1	0	1	0	1	0	0	1
Grp Vol (v), veh/h	94	0	108	0	138	0	0	86
Grp Sat Flow (s), veh/h/ln	1557	0	1667	0	1695	0	0	1633
Q Serve Time (g_s), s	5.3	0.0	5.7	0.0	7.1	0.0	0.0	4.6
Cycle Q Clear Time (g_c), s	5.3	0.0	5.7	0.0	7.1	0.0	0.0	4.6
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.62	0.00	0.20	0.00	0.11	0.00	0.00	0.33
Lane Grp Cap (c), veh/h	134	0	151	0	187	0	0	222
V/C Ratio (X)	0.70	0.00	0.71	0.00	0.74	0.00	0.00	0.39
Avail Cap (c_a), veh/h	363	0	371	0	584	0	0	454
Upstream Filter (I)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	0.98
Uniform Delay (d1), s/veh	40.0	0.0	39.8	0.0	38.8	0.0	0.0	39.3
Incr Delay (d2), s/veh	26.2	0.0	6.1	0.0	22.7	0.0	0.0	1.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	66.2	0.0	45.9	0.0	61.4	0.0	0.0	40.4
1st-Term Q (Q1), veh/ln	2.3	0.0	2.6	0.0	3.3	0.0	0.0	2.1
2nd-Term Q (Q2), veh/ln	1.0	0.0	0.3	0.0	1.2	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	3.2	0.0	2.9	0.0	4.5	0.0	0.0	2.2
%ile Storage Ratio (RQ%)	0.20	0.00	0.01	0.00	0.01	0.00	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

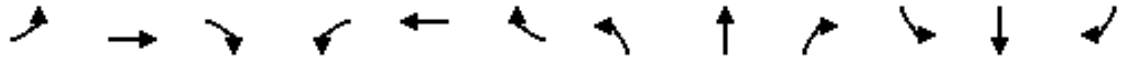
Intersection Summary	
HCM 2010 Ctrl Delay	49.1
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	14	175	20	66	130	26	31	118	53	70	235	14
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	15	190	22	72	141	28	34	128	58	76	255	15
Adj No. of Lanes	1	2	0	1	2	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	23	270	31	97	373	72	925	192	83	965	348	20
Arrive On Green	0.01	0.09	0.09	0.02	0.04	0.04	0.56	0.09	0.09	0.59	0.11	0.11
Sat Flow, veh/h	1645	2969	340	1645	2742	532	1645	2234	964	1645	3151	184
Grp Volume(v), veh/h	15	104	108	72	83	86	34	92	94	76	132	138
Grp Sat Flow(s),veh/h/ln	1645	1641	1667	1645	1641	1633	1645	1641	1557	1645	1641	1695
Q Serve(g_s), s	0.8	5.5	5.7	3.9	4.4	4.6	0.8	4.9	5.3	1.8	7.0	7.1
Cycle Q Clear(g_c), s	0.8	5.5	5.7	3.9	4.4	4.6	0.8	4.9	5.3	1.8	7.0	7.1
Prop In Lane	1.00		0.20	1.00		0.33	1.00		0.62	1.00		0.11
Lane Grp Cap(c), veh/h	23	149	151	97	223	222	925	141	134	965	181	187
V/C Ratio(X)	0.66	0.70	0.71	0.74	0.37	0.39	0.04	0.65	0.70	0.08	0.73	0.74
Avail Cap(c_a), veh/h	146	365	371	238	456	454	925	383	363	965	565	584
HCM Platoon Ratio	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.98	0.98	0.98	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	44.2	39.7	39.8	43.4	39.3	39.3	8.8	39.8	40.0	8.1	38.7	38.8
Incr Delay (d2), s/veh	27.5	5.8	6.1	10.4	1.0	1.1	0.0	21.3	26.2	0.0	22.7	22.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	2.8	2.9	2.1	2.1	2.2	0.4	3.1	3.2	0.8	4.3	4.5
LnGrp Delay(d),s/veh	71.7	45.5	45.9	53.8	40.3	40.4	8.8	61.1	66.2	8.1	61.4	61.4
LnGrp LOS	E	D	D	D	D	D	A	E	E	A	E	E
Approach Vol, veh/h		227			241			220			346	
Approach Delay, s/veh		47.4			44.4			55.2			49.7	
Approach LOS		D			D			E			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	6.8	11.7	9.3	12.2	54.6	13.9	5.3	16.2
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	2.0	21.0	13.0	20.0	10.0	31.0	8.0	25.0
Max Q Clear Time (g_c+I1), s	3.8	7.3	5.9	7.7	2.8	9.1	2.8	6.6
Green Ext Time (p_c), s	0.3	0.5	0.4	0.5	0.2	0.8	0.0	0.7

Intersection Summary	
HCM 2010 Ctrl Delay	49.1
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	38	169	50	55	136	158	28	299	500	189	145	43
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	41	184	54	60	148	172	30	325	543	205	158	47
Adj No. of Lanes	1	2	0	1	2	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	50	504	144	279	557	498	39	492	440	251	1079	311
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.03	0.20	0.20	0.17	0.34	0.34	0.02	0.30	0.30	0.15	0.43	0.43
Ln Grp Delay, s/veh	67.6	33.6	34.0	32.6	22.7	24.1	71.3	30.7	154.7	45.9	15.7	15.8
Ln Grp LOS	E	C	C	C	C	C	E	C	F	D	B	B
Approach Vol, veh/h		279			380			898			410	
Approach Delay, s/veh		38.8			24.9			107.0			30.8	
Approach LOS		D			C			F			C	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	5	6	7	8
Case No	4.0	2.0	4.0	2.0	2.0	4.0	2.0	4.0
Phs Duration (G+Y+Rc), s	31.0	17.7	22.0	19.3	6.1	42.6	6.7	34.6
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	27.0	20.0	18.0	9.0	6.0	41.0	6.0	21.0
Max Allow Headway (MAH), s	4.2	4.1	4.1	4.2	4.1	4.1	4.1	4.2
Max Q Clear (g_c+I1), s	29.0	12.9	7.8	4.8	3.6	5.6	4.2	9.9
Green Ext Time (g_e), s	0.0	0.9	0.5	0.6	0.0	1.5	0.0	1.1
Prob of Phs Call (p_c)	1.00	1.00	1.00	0.78	0.53	1.00	0.64	1.00
Prob of Max Out (p_x)	1.00	0.25	0.00	1.00	1.00	0.00	1.00	0.00

Left-Turn Movement Data								
Assigned Mvmt		1		3	5		7	
Mvmt Sat Flow, veh/h		1645		1645	1645		1645	

Through Movement Data								
Assigned Mvmt	2		4			6		8
Mvmt Sat Flow, veh/h	1641		2521			2515		1641

Right-Turn Movement Data								
Assigned Mvmt	12		14			16		18
Mvmt Sat Flow, veh/h	1468		720			725		1468

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	5	0	7	0
Lane Assignment		(Prot)		(Prot)	(Prot)		(Prot)	
Lanes in Grp	0	1	0	1	1	0	1	0

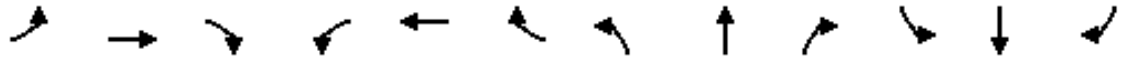
Grp Vol (v), veh/h	0	205	0	60	30	0	41	0
Grp Sat Flow (s), veh/h/ln	0	1645	0	1645	1645	0	1645	0
Q Serve Time (g_s), s	0.0	10.9	0.0	2.8	1.6	0.0	2.2	0.0
Cycle Q Clear Time (g_c), s	0.0	10.9	0.0	2.8	1.6	0.0	2.2	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	251	0	279	39	0	50	0
V/C Ratio (X)	0.00	0.82	0.00	0.21	0.78	0.00	0.83	0.00
Avail Cap (c_a), veh/h	0	366	0	279	110	0	110	0
Upstream Filter (I)	0.00	1.00	0.00	1.00	1.00	0.00	0.85	0.00
Uniform Delay (d1), s/veh	0.0	36.9	0.0	32.2	43.7	0.0	43.4	0.0
Incr Delay (d2), s/veh	0.0	9.0	0.0	0.4	27.6	0.0	24.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	45.9	0.0	32.6	71.3	0.0	67.6	0.0
1st-Term Q (Q1), veh/ln	0.0	5.0	0.0	1.3	0.7	0.0	1.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.6	0.0	0.0	0.3	0.0	0.3	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	5.6	0.0	1.3	1.0	0.0	1.3	0.0
%ile Storage Ratio (RQ%)	0.00	1.46	0.00	0.60	0.22	0.00	0.20	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	0	6	0	8
Lane Assignment	T		T			T		T
Lanes in Grp	1	0	1	0	0	1	0	1
Grp Vol (v), veh/h	325	0	118	0	0	101	0	148
Grp Sat Flow (s), veh/h/ln	1641	0	1641	0	0	1641	0	1641
Q Serve Time (g_s), s	15.6	0.0	5.6	0.0	0.0	3.4	0.0	5.9
Cycle Q Clear Time (g_c), s	15.6	0.0	5.6	0.0	0.0	3.4	0.0	5.9
Lane Grp Cap (c), veh/h	492	0	328	0	0	704	0	557
V/C Ratio (X)	0.66	0.00	0.36	0.00	0.00	0.14	0.00	0.27
Avail Cap (c_a), veh/h	492	0	328	0	0	748	0	557
Upstream Filter (I)	1.00	0.00	0.85	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	27.5	0.0	31.0	0.0	0.0	15.6	0.0	21.6
Incr Delay (d2), s/veh	3.3	0.0	2.6	0.0	0.0	0.1	0.0	1.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	30.7	0.0	33.6	0.0	0.0	15.7	0.0	22.7
1st-Term Q (Q1), veh/ln	7.0	0.0	2.5	0.0	0.0	1.5	0.0	2.7
2nd-Term Q (Q2), veh/ln	0.4	0.0	0.2	0.0	0.0	0.0	0.0	0.2

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	7.5	0.0	2.8	0.0	0.0	1.5	0.0	2.9
%ile Storage Ratio (RQ%)	0.47	0.00	0.03	0.00	0.00	0.01	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	0	16	0	18
Lane Assignment	T+R		T+R			T+R		T+R
Lanes in Grp	1	0	1	0	0	1	0	1
Grp Vol (v), veh/h	543	0	120	0	0	104	0	172
Grp Sat Flow (s), veh/h/ln	1468	0	1600	0	0	1599	0	1468
Q Serve Time (g_s), s	27.0	0.0	5.8	0.0	0.0	3.6	0.0	7.9
Cycle Q Clear Time (g_c), s	27.0	0.0	5.8	0.0	0.0	3.6	0.0	7.9
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.45	0.00	0.00	0.45	0.00	1.00
Lane Grp Cap (c), veh/h	440	0	320	0	0	686	0	498
V/C Ratio (X)	1.23	0.00	0.38	0.00	0.00	0.15	0.00	0.35
Avail Cap (c_a), veh/h	440	0	320	0	0	729	0	498
Upstream Filter (I)	1.00	0.00	0.85	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	31.5	0.0	31.1	0.0	0.0	15.7	0.0	22.2
Incr Delay (d2), s/veh	123.2	0.0	2.9	0.0	0.0	0.1	0.0	1.9
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	154.7	0.0	34.0	0.0	0.0	15.8	0.0	24.1
1st-Term Q (Q1), veh/ln	10.9	0.0	2.6	0.0	0.0	1.6	0.0	3.2
2nd-Term Q (Q2), veh/ln	15.1	0.0	0.3	0.0	0.0	0.0	0.0	0.3
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	26.0	0.0	2.8	0.0	0.0	1.6	0.0	3.5
%ile Storage Ratio (RQ%)	1.64	0.00	0.03	0.00	0.00	0.01	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	25.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	65.6
HCM 2010 LOS	E



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	38	169	50	55	136	158	28	299	500	189	145	43
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	41	184	54	60	148	172	30	325	543	205	158	47
Adj No. of Lanes	1	2	0	1	2	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	50	504	144	279	557	498	39	492	440	251	1079	311
Arrive On Green	0.03	0.20	0.20	0.17	0.34	0.34	0.02	0.30	0.30	0.15	0.43	0.43
Sat Flow, veh/h	1645	2521	720	1645	1641	1468	1645	1641	1468	1645	2515	725
Grp Volume(v), veh/h	41	118	120	60	148	172	30	325	543	205	101	104
Grp Sat Flow(s),veh/h/ln	1645	1641	1600	1645	1641	1468	1645	1641	1468	1645	1641	1599
Q Serve(g_s), s	2.2	5.6	5.8	2.8	5.9	7.9	1.6	15.6	27.0	10.9	3.4	3.6
Cycle Q Clear(g_c), s	2.2	5.6	5.8	2.8	5.9	7.9	1.6	15.6	27.0	10.9	3.4	3.6
Prop In Lane	1.00		0.45	1.00		1.00	1.00		1.00	1.00		0.45
Lane Grp Cap(c), veh/h	50	328	320	279	557	498	39	492	440	251	704	686
V/C Ratio(X)	0.83	0.36	0.38	0.21	0.27	0.35	0.78	0.66	1.23	0.82	0.14	0.15
Avail Cap(c_a), veh/h	110	328	320	279	557	498	110	492	440	366	748	729
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.85	0.85	0.85	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	43.4	31.0	31.1	32.2	21.6	22.2	43.7	27.5	31.5	36.9	15.6	15.7
Incr Delay (d2), s/veh	24.1	2.6	2.9	0.4	1.2	1.9	27.6	3.3	123.2	9.0	0.1	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.3	2.8	2.8	1.3	2.9	3.5	1.0	7.5	26.0	5.6	1.5	1.6
LnGrp Delay(d),s/veh	67.6	33.6	34.0	32.6	22.7	24.1	71.3	30.7	154.7	45.9	15.7	15.8
LnGrp LOS	E	C	C	C	C	C	E	C	F	D	B	B
Approach Vol, veh/h		279			380			898			410	
Approach Delay, s/veh		38.8			24.9			107.0			30.8	
Approach LOS		D			C			F			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	17.7	31.0	19.3	22.0	6.1	42.6	6.7	34.6
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	20.0	27.0	9.0	18.0	6.0	41.0	6.0	21.0
Max Q Clear Time (g_c+I1), s	11.9	29.0	4.8	7.8	3.6	5.6	4.2	9.9
Green Ext Time (p_c), s	0.9	0.0	0.6	0.5	0.0	1.5	0.0	1.1

Intersection Summary	
HCM 2010 Ctrl Delay	65.6
HCM 2010 LOS	E

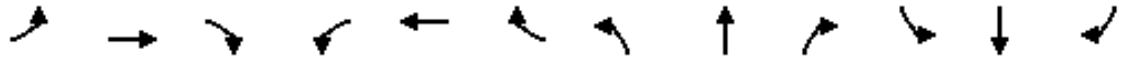
Intersection	
Int Delay, s/veh	4.3

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	184	311	32	91	148	40
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	200	338	35	99	161	43

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	538	0	537	369
Stage 1	-	-	-	-	369	-
Stage 2	-	-	-	-	168	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	991	-	491	659
Stage 1	-	-	-	-	682	-
Stage 2	-	-	-	-	843	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	991	-	473	659
Mov Cap-2 Maneuver	-	-	-	-	473	-
Stage 1	-	-	-	-	682	-
Stage 2	-	-	-	-	812	-

Approach	EB	WB	NB
HCM Control Delay, s	0	2.3	17
HCM LOS			C

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	503	-	-	991	-
HCM Lane V/C Ratio	0.406	-	-	0.035	-
HCM Control Delay (s)	17	-	-	8.8	0
HCM Lane LOS	C	-	-	A	A
HCM 95th %tile Q(veh)	2	-	-	0.1	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	125	837	74	137	679	174	103	362	180	105	800	56
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	136	910	80	149	738	189	112	393	196	114	870	61
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	161	983	440	187	1034	463	136	440	374	613	1195	535
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.10	0.30	0.30	0.11	0.32	0.32	0.08	0.25	0.25	0.19	0.36	0.36
Ln Grp Delay, s/veh	75.7	51.9	18.3	65.1	36.3	12.2	77.0	64.2	41.8	38.7	34.1	24.3
Ln Grp LOS	E	D	B	E	D	B	E	E	D	D	C	C
Approach Vol, veh/h		1126			1076			701			1045	
Approach Delay, s/veh		52.4			36.1			60.0			34.0	
Approach LOS		D			D			E			C	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	5	6	7	8
Case No	3.0	2.0	3.0	2.0	2.0	3.0	2.0	3.0
Phs Duration (G+Y+Rc), s	33.0	25.9	38.2	16.9	13.4	45.5	15.2	39.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	42.0	6.0	36.0	14.0	11.0	37.0	13.0	37.0
Max Allow Headway (MAH), s	4.1	4.0	4.0	4.1	4.1	4.0	4.1	4.1
Max Q Clear (g_c+I1), s	27.0	5.4	32.6	12.1	9.6	28.1	11.3	24.7
Green Ext Time (g_e), s	2.0	0.3	1.5	1.0	0.0	3.2	0.1	3.8
Prob of Phs Call (p_c)	1.00	0.97	1.00	0.99	0.97	1.00	0.99	1.00
Prob of Max Out (p_x)	0.03	1.00	1.00	1.00	1.00	0.37	1.00	0.20

Left-Turn Movement Data								
Assigned Mvmt		1		3	5		7	
Mvmt Sat Flow, veh/h		3191		1645	1645		1645	

Through Movement Data								
Assigned Mvmt	2		4			6		8
Mvmt Sat Flow, veh/h	1727		3282			3282		3282

Right-Turn Movement Data								
Assigned Mvmt	12		14			16		18
Mvmt Sat Flow, veh/h	1468		1468			1468		1468

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	5	0	7	0
Lane Assignment		(Prot)		(Prot)	(Prot)		(Prot)	
Lanes in Grp	0	2	0	1	1	0	1	0

Grp Vol (v), veh/h	0	114	0	149	112	0	136	0
Grp Sat Flow (s), veh/h/ln	0	1596	0	1645	1645	0	1645	0
Q Serve Time (g_s), s	0.0	3.4	0.0	10.1	7.6	0.0	9.3	0.0
Cycle Q Clear Time (g_c), s	0.0	3.4	0.0	10.1	7.6	0.0	9.3	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	613	0	187	136	0	161	0
V/C Ratio (X)	0.00	0.19	0.00	0.80	0.83	0.00	0.84	0.00
Avail Cap (c_a), veh/h	0	613	0	202	159	0	188	0
Upstream Filter (I)	0.00	0.69	0.00	0.83	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	38.6	0.0	49.3	51.5	0.0	50.6	0.0
Incr Delay (d2), s/veh	0.0	0.1	0.0	15.8	25.5	0.0	25.2	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	38.7	0.0	65.1	77.0	0.0	75.7	0.0
1st-Term Q (Q1), veh/ln	0.0	1.5	0.0	4.6	3.5	0.0	4.2	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.8	1.0	0.0	1.1	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	1.5	0.0	5.4	4.4	0.0	5.4	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.03	0.04	0.00	0.01	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	0	6	0	8
Lane Assignment	T		T			T		T
Lanes in Grp	1	0	2	0	0	2	0	2
Grp Vol (v), veh/h	393	0	910	0	0	870	0	738
Grp Sat Flow (s), veh/h/ln	1727	0	1641	0	0	1641	0	1641
Q Serve Time (g_s), s	25.0	0.0	30.6	0.0	0.0	26.1	0.0	22.7
Cycle Q Clear Time (g_c), s	25.0	0.0	30.6	0.0	0.0	26.1	0.0	22.7
Lane Grp Cap (c), veh/h	440	0	983	0	0	1195	0	1034
V/C Ratio (X)	0.89	0.00	0.93	0.00	0.00	0.73	0.00	0.71
Avail Cap (c_a), veh/h	636	0	1036	0	0	1195	0	1065
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.00	0.69	0.00	0.83
Uniform Delay (d1), s/veh	41.0	0.0	38.7	0.0	0.0	31.4	0.0	34.5
Incr Delay (d2), s/veh	23.2	0.0	13.2	0.0	0.0	2.7	0.0	1.8
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	64.2	0.0	51.9	0.0	0.0	34.1	0.0	36.3
1st-Term Q (Q1), veh/ln	11.9	0.0	13.9	0.0	0.0	11.8	0.0	10.3
2nd-Term Q (Q2), veh/ln	2.8	0.0	1.8	0.0	0.0	0.5	0.0	0.3

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	14.7	0.0	15.7	0.0	0.0	12.3	0.0	10.5
%ile Storage Ratio (RQ%)	0.12	0.00	0.02	0.00	0.00	0.02	0.00	0.06
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	0	16	0	18
Lane Assignment	R		R			R		R
Lanes in Grp	1	0	1	0	0	1	0	1
Grp Vol (v), veh/h	196	0	80	0	0	61	0	189
Grp Sat Flow (s), veh/h/ln	1468	0	1468	0	0	1468	0	1468
Q Serve Time (g_s), s	13.1	0.0	3.6	0.0	0.0	3.1	0.0	7.1
Cycle Q Clear Time (g_c), s	13.1	0.0	3.6	0.0	0.0	3.1	0.0	7.1
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	374	0	440	0	0	535	0	463
V/C Ratio (X)	0.52	0.00	0.18	0.00	0.00	0.11	0.00	0.41
Avail Cap (c_a), veh/h	541	0	464	0	0	535	0	477
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.00	0.69	0.00	0.83
Uniform Delay (d1), s/veh	36.6	0.0	18.1	0.0	0.0	24.0	0.0	11.7
Incr Delay (d2), s/veh	5.2	0.0	0.2	0.0	0.0	0.3	0.0	0.5
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	41.8	0.0	18.3	0.0	0.0	24.3	0.0	12.2
1st-Term Q (Q1), veh/ln	5.3	0.0	1.5	0.0	0.0	1.3	0.0	2.8
2nd-Term Q (Q2), veh/ln	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	5.8	0.0	1.5	0.0	0.0	1.3	0.0	2.9
%ile Storage Ratio (RQ%)	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	44.4
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	125	837	74	137	679	174	103	362	180	105	800	56
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	136	910	80	149	738	189	112	393	196	114	870	61
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	161	983	440	187	1034	463	136	440	374	613	1195	535
Arrive On Green	0.10	0.30	0.30	0.11	0.32	0.32	0.08	0.25	0.25	0.19	0.36	0.36
Sat Flow, veh/h	1645	3282	1468	1645	3282	1468	1645	1727	1468	3191	3282	1468
Grp Volume(v), veh/h	136	910	80	149	738	189	112	393	196	114	870	61
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1641	1468	1645	1727	1468	1596	1641	1468
Q Serve(g_s), s	9.3	30.6	3.6	10.1	22.7	7.1	7.6	25.0	13.1	3.4	26.1	3.1
Cycle Q Clear(g_c), s	9.3	30.6	3.6	10.1	22.7	7.1	7.6	25.0	13.1	3.4	26.1	3.1
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	161	983	440	187	1034	463	136	440	374	613	1195	535
V/C Ratio(X)	0.84	0.93	0.18	0.80	0.71	0.41	0.83	0.89	0.52	0.19	0.73	0.11
Avail Cap(c_a), veh/h	188	1036	464	202	1065	477	159	636	541	613	1195	535
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.83	0.83	0.83	1.00	1.00	1.00	0.69	0.69	0.69
Uniform Delay (d), s/veh	50.6	38.7	18.1	49.3	34.5	11.7	51.5	41.0	36.6	38.6	31.4	24.0
Incr Delay (d2), s/veh	25.2	13.2	0.2	15.8	1.8	0.5	25.5	23.2	5.2	0.1	2.7	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.4	15.7	1.5	5.4	10.5	2.9	4.4	14.7	5.8	1.5	12.3	1.3
LnGrp Delay(d),s/veh	75.7	51.9	18.3	65.1	36.3	12.2	77.0	64.2	41.8	38.7	34.1	24.3
LnGrp LOS	E	D	B	E	D	B	E	E	D	D	C	C
Approach Vol, veh/h		1126			1076			701			1045	
Approach Delay, s/veh		52.4			36.1			60.0			34.0	
Approach LOS		D			D			E			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	25.9	33.0	16.9	38.2	13.4	45.5	15.2	39.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	6	42.0	14.0	36.0	11.0	37.0	13.0	37.0
Max Q Clear Time (g_c+I1), s	5	27.0	12.1	32.6	9.6	28.1	11.3	24.7
Green Ext Time (p_c), s	0.3	2.0	1.0	1.5	0.0	3.2	0.1	3.8

Intersection Summary	
HCM 2010 Ctrl Delay	44.4
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	121	1045	155	160	664	62	165	564	238	270	908	73
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	132	1136	168	174	722	67	179	613	259	293	987	79
Adj No. of Lanes	2	2	1	2	2	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	185	1249	559	238	1303	583	521	1392	433	349	1137	354
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.06	0.38	0.38	0.07	0.40	0.40	0.16	0.30	0.30	0.11	0.24	0.24
Ln Grp Delay, s/veh	56.1	38.8	24.9	57.7	26.8	21.8	42.3	32.6	22.3	58.2	47.0	24.8
Ln Grp LOS	E	D	C	E	C	C	D	C	C	E	D	C
Approach Vol, veh/h		1436			963			1051			1359	
Approach Delay, s/veh		38.7			32.1			31.7			48.2	
Approach LOS		D			C			C			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	6	5	7	8
Case No	2.0	3.0	3.0	2.0	3.0	2.0	2.0	3.0
Phs Duration (G+Y+Rc), s	16.5	37.6	47.4	12.5	31.5	22.6	10.6	49.3
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	14.0	27.0	48.0	9.0	31.0	10.0	9.0	48.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.0	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	12.3	15.7	39.4	8.1	24.9	7.7	6.6	21.4
Green Ext Time (g_e), s	0.2	3.6	4.0	0.5	2.6	1.2	0.1	4.3
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	1.00	0.98	1.00
Prob of Max Out (p_x)	1.00	0.23	0.51	1.00	0.65	1.00	1.00	0.01

Left-Turn Movement Data								
Assigned Mvmt	1			3		5	7	
Mvmt Sat Flow, veh/h	3191			3191		3191	3191	

Through Movement Data								
Assigned Mvmt		2	4		6			8
Mvmt Sat Flow, veh/h		4715	3282		4715			3282

Right-Turn Movement Data								
Assigned Mvmt		12	14		16			18
Mvmt Sat Flow, veh/h		1468	1468		1468			1468

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	0	5	7	0
Lane Assignment	(Prot)			(Prot)		(Prot)	(Prot)	
Lanes in Grp	2	0	0	2	0	2	2	0

Grp Vol (v), veh/h	293	0	0	174	0	179	132	0
Grp Sat Flow (s), veh/h/ln	1596	0	0	1596	0	1596	1596	0
Q Serve Time (g_s), s	10.3	0.0	0.0	6.1	0.0	5.7	4.6	0.0
Cycle Q Clear Time (g_c), s	10.3	0.0	0.0	6.1	0.0	5.7	4.6	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	349	0	0	238	0	521	185	0
V/C Ratio (X)	0.84	0.00	0.00	0.73	0.00	0.34	0.71	0.00
Avail Cap (c_a), veh/h	392	0	0	252	0	521	252	0
Upstream Filter (I)	0.58	0.00	0.00	0.61	0.00	0.09	0.57	0.00
Uniform Delay (d1), s/veh	49.8	0.0	0.0	51.6	0.0	42.3	52.8	0.0
Incr Delay (d2), s/veh	8.5	0.0	0.0	6.1	0.0	0.0	3.4	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	58.2	0.0	0.0	57.7	0.0	42.3	56.1	0.0
1st-Term Q (Q1), veh/ln	4.5	0.0	0.0	2.7	0.0	2.5	2.0	0.0
2nd-Term Q (Q2), veh/ln	0.4	0.0	0.0	0.2	0.0	0.0	0.1	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	4.9	0.0	0.0	2.9	0.0	2.5	2.1	0.0
%ile Storage Ratio (RQ%)	0.01	0.00	0.00	0.01	0.00	0.01	0.01	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	6	0	0	8
Lane Assignment		T	T		T			T
Lanes in Grp	0	3	2	0	3	0	0	2
Grp Vol (v), veh/h	0	613	1136	0	987	0	0	722
Grp Sat Flow (s), veh/h/ln	0	1572	1641	0	1572	0	0	1641
Q Serve Time (g_s), s	0.0	12.0	37.4	0.0	22.9	0.0	0.0	19.4
Cycle Q Clear Time (g_c), s	0.0	12.0	37.4	0.0	22.9	0.0	0.0	19.4
Lane Grp Cap (c), veh/h	0	1392	1249	0	1137	0	0	1303
V/C Ratio (X)	0.00	0.44	0.91	0.00	0.87	0.00	0.00	0.55
Avail Cap (c_a), veh/h	0	1392	1382	0	1282	0	0	1382
Upstream Filter (I)	0.00	0.09	0.57	0.00	0.58	0.00	0.00	0.61
Uniform Delay (d1), s/veh	0.0	32.6	33.5	0.0	41.5	0.0	0.0	26.6
Incr Delay (d2), s/veh	0.0	0.1	5.3	0.0	5.5	0.0	0.0	0.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	32.6	38.8	0.0	47.0	0.0	0.0	26.8
1st-Term Q (Q1), veh/ln	0.0	5.2	16.9	0.0	10.0	0.0	0.0	8.7
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.9	0.0	0.6	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	5.2	17.8	0.0	10.5	0.0	0.0	8.8
%ile Storage Ratio (RQ%)	0.00	0.01	0.09	0.00	0.01	0.00	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

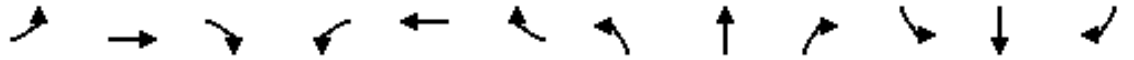
Right Lane Group Data								
Assigned Mvmt	0	12	14	0	16	0	0	18
Lane Assignment		R	R		R			R
Lanes in Grp	0	1	1	0	1	0	0	1
Grp Vol (v), veh/h	0	259	168	0	79	0	0	67
Grp Sat Flow (s), veh/h/ln	0	1468	1468	0	1468	0	0	1468
Q Serve Time (g_s), s	0.0	13.7	9.1	0.0	4.1	0.0	0.0	3.3
Cycle Q Clear Time (g_c), s	0.0	13.7	9.1	0.0	4.1	0.0	0.0	3.3
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	433	559	0	354	0	0	583
V/C Ratio (X)	0.00	0.60	0.30	0.00	0.22	0.00	0.00	0.11
Avail Cap (c_a), veh/h	0	433	618	0	399	0	0	618
Upstream Filter (I)	0.00	0.09	0.57	0.00	0.58	0.00	0.00	0.61
Uniform Delay (d1), s/veh	0.0	21.7	24.7	0.0	24.0	0.0	0.0	21.7
Incr Delay (d2), s/veh	0.0	0.6	0.2	0.0	0.8	0.0	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	22.3	24.9	0.0	24.8	0.0	0.0	21.8
1st-Term Q (Q1), veh/ln	0.0	5.5	3.7	0.0	1.7	0.0	0.0	1.3
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	5.6	3.7	0.0	1.7	0.0	0.0	1.3
%ile Storage Ratio (RQ%)	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	38.5
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	121	1045	155	160	664	62	165	564	238	270	908	73
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	132	1136	168	174	722	67	179	613	259	293	987	79
Adj No. of Lanes	2	2	1	2	2	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	185	1249	559	238	1303	583	521	1392	433	349	1137	354
Arrive On Green	0.06	0.38	0.38	0.07	0.40	0.40	0.16	0.30	0.30	0.11	0.24	0.24
Sat Flow, veh/h	3191	3282	1468	3191	3282	1468	3191	4715	1468	3191	4715	1468
Grp Volume(v), veh/h	132	1136	168	174	722	67	179	613	259	293	987	79
Grp Sat Flow(s),veh/h/ln	1596	1641	1468	1596	1641	1468	1596	1572	1468	1596	1572	1468
Q Serve(g_s), s	4.6	37.4	9.1	6.1	19.4	3.3	5.7	12.0	13.7	10.3	22.9	4.1
Cycle Q Clear(g_c), s	4.6	37.4	9.1	6.1	19.4	3.3	5.7	12.0	13.7	10.3	22.9	4.1
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	185	1249	559	238	1303	583	521	1392	433	349	1137	354
V/C Ratio(X)	0.71	0.91	0.30	0.73	0.55	0.11	0.34	0.44	0.60	0.84	0.87	0.22
Avail Cap(c_a), veh/h	252	1382	618	252	1382	618	521	1392	433	392	1282	399
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.57	0.57	0.57	0.61	0.61	0.61	0.09	0.09	0.09	0.58	0.58	0.58
Uniform Delay (d), s/veh	52.8	33.5	24.7	51.6	26.6	21.7	42.3	32.6	21.7	49.8	41.5	24.0
Incr Delay (d2), s/veh	3.4	5.3	0.2	6.1	0.3	0.1	0.0	0.1	0.6	8.5	5.5	0.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.1	17.8	3.7	2.9	8.8	1.3	2.5	5.2	5.6	4.9	10.5	1.7
LnGrp Delay(d),s/veh	56.1	38.8	24.9	57.7	26.8	21.8	42.3	32.6	22.3	58.2	47.0	24.8
LnGrp LOS	E	D	C	E	C	C	D	C	C	E	D	C
Approach Vol, veh/h		1436			963			1051			1359	
Approach Delay, s/veh		38.7			32.1			31.7			48.2	
Approach LOS		D			C			C			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	16.5	37.6	12.5	47.4	22.6	31.5	10.6	49.3
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	12.5	27.0	9.0	48.0	10.0	31.0	9.0	48.0
Max Q Clear Time (g_c+I1), s	12.3	15.7	8.1	39.4	7.7	24.9	6.6	21.4
Green Ext Time (p_c), s	0.2	3.6	0.5	4.0	1.2	2.6	0.1	4.3

Intersection Summary	
HCM 2010 Ctrl Delay	38.5
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	214	361	98	141	701	85	111	1111	156	129	708	83
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	233	392	107	153	762	92	121	1208	170	140	770	90
Adj No. of Lanes	2	3	1	2	3	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	334	1100	343	211	919	286	1132	2352	732	196	969	302
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.10	0.23	0.23	0.07	0.19	0.19	0.35	0.50	0.50	0.06	0.21	0.21
Ln Grp Delay, s/veh	52.0	36.7	7.7	56.9	48.3	28.2	24.7	20.1	16.9	57.2	49.7	40.8
Ln Grp LOS	D	D	A	E	D	C	C	C	B	E	D	D
Approach Vol, veh/h		732			1007			1499			1000	
Approach Delay, s/veh		37.3			47.7			20.1			49.9	
Approach LOS		D			D			C			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	6	5	8	7
Case No	2.0	3.0	2.0	3.0	3.0	2.0	3.0	2.0
Phs Duration (G+Y+Rc), s	11.0	60.9	11.5	30.6	27.4	44.4	26.2	15.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	12.0	41.0	13.0	32.0	41.0	12.0	28.0	17.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	6.9	21.7	7.4	9.9	19.7	4.9	19.7	10.0
Green Ext Time (g_e), s	0.2	6.9	0.2	3.1	3.8	3.9	2.5	1.9
Prob of Phs Call (p_c)	0.99	1.00	0.99	1.00	1.00	0.98	1.00	1.00
Prob of Max Out (p_x)	0.41	0.15	0.26	0.00	0.01	0.69	0.32	0.41

Left-Turn Movement Data								
Assigned Mvmt	1		3			5		7
Mvmt Sat Flow, veh/h	3191		3191			3191		3191

Through Movement Data								
Assigned Mvmt		2		4	6		8	
Mvmt Sat Flow, veh/h		4715		4715	4715		4715	

Right-Turn Movement Data								
Assigned Mvmt		12		14	16		18	
Mvmt Sat Flow, veh/h		1468		1468	1468		1468	

Left Lane Group Data								
Assigned Mvmt	1	0	3	0	0	5	0	7
Lane Assignment	(Prot)		(Prot)			(Prot)		(Prot)
Lanes in Grp	2	0	2	0	0	2	0	2

Grp Vol (v), veh/h	140	0	153	0	0	121	0	233
Grp Sat Flow (s), veh/h/ln	1596	0	1596	0	0	1596	0	1596
Q Serve Time (g_s), s	4.9	0.0	5.4	0.0	0.0	2.9	0.0	8.0
Cycle Q Clear Time (g_c), s	4.9	0.0	5.4	0.0	0.0	2.9	0.0	8.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	196	0	211	0	0	1132	0	334
V/C Ratio (X)	0.71	0.00	0.73	0.00	0.00	0.11	0.00	0.70
Avail Cap (c_a), veh/h	336	0	364	0	0	1132	0	476
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	52.5	0.0	52.2	0.0	0.0	24.7	0.0	49.3
Incr Delay (d2), s/veh	4.7	0.0	4.7	0.0	0.0	0.0	0.0	2.6
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	57.2	0.0	56.9	0.0	0.0	24.7	0.0	52.0
1st-Term Q (Q1), veh/ln	2.2	0.0	2.4	0.0	0.0	1.3	0.0	3.6
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	2.3	0.0	2.5	0.0	0.0	1.3	0.0	3.7
%ile Storage Ratio (RQ%)	0.02	0.00	0.05	0.00	0.00	0.01	0.00	0.05
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	6	0	8	0
Lane Assignment		T		T	T		T	
Lanes in Grp	0	3	0	3	3	0	3	0
Grp Vol (v), veh/h	0	1208	0	392	770	0	762	0
Grp Sat Flow (s), veh/h/ln	0	1572	0	1572	1572	0	1572	0
Q Serve Time (g_s), s	0.0	19.7	0.0	7.9	17.7	0.0	17.7	0.0
Cycle Q Clear Time (g_c), s	0.0	19.7	0.0	7.9	17.7	0.0	17.7	0.0
Lane Grp Cap (c), veh/h	0	2352	0	1100	969	0	919	0
V/C Ratio (X)	0.00	0.51	0.00	0.36	0.79	0.00	0.83	0.00
Avail Cap (c_a), veh/h	0	2352	0	1324	1696	0	1158	0
Upstream Filter (I)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	19.3	0.0	36.5	43.0	0.0	44.1	0.0
Incr Delay (d2), s/veh	0.0	0.8	0.0	0.2	6.7	0.0	4.2	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	20.1	0.0	36.7	49.7	0.0	48.3	0.0
1st-Term Q (Q1), veh/ln	0.0	8.5	0.0	3.4	7.7	0.0	7.7	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.2	0.0	0.0	0.6	0.0	0.4	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	8.7	0.0	3.5	8.3	0.0	8.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.05	0.00	0.05	0.07	0.00	0.16	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	16	0	18	0
Lane Assignment		R		R	R		R	
Lanes in Grp	0	1	0	1	1	0	1	0
Grp Vol (v), veh/h	0	170	0	107	90	0	92	0
Grp Sat Flow (s), veh/h/ln	0	1468	0	1468	1468	0	1468	0
Q Serve Time (g_s), s	0.0	7.5	0.0	3.1	5.9	0.0	5.1	0.0
Cycle Q Clear Time (g_c), s	0.0	7.5	0.0	3.1	5.9	0.0	5.1	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	732	0	343	302	0	286	0
V/C Ratio (X)	0.00	0.23	0.00	0.31	0.30	0.00	0.32	0.00
Avail Cap (c_a), veh/h	0	732	0	412	528	0	361	0
Upstream Filter (I)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	16.2	0.0	7.2	38.3	0.0	27.6	0.0
Incr Delay (d2), s/veh	0.0	0.7	0.0	0.5	2.5	0.0	0.6	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	16.9	0.0	7.7	40.8	0.0	28.2	0.0
1st-Term Q (Q1), veh/ln	0.0	3.0	0.0	1.2	2.4	0.0	2.1	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.2	0.0	0.0	0.2	0.0	0.1	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	3.2	0.0	1.3	2.6	0.0	2.1	0.0
%ile Storage Ratio (RQ%)	0.00	0.02	0.00	0.02	0.02	0.00	0.04	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	36.7
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	214	361	98	141	701	85	111	1111	156	129	708	83
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	233	392	107	153	762	92	121	1208	170	140	770	90
Adj No. of Lanes	2	3	1	2	3	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	334	1100	343	211	919	286	1132	2352	732	196	969	302
Arrive On Green	0.10	0.23	0.23	0.07	0.19	0.19	0.35	0.50	0.50	0.06	0.21	0.21
Sat Flow, veh/h	3191	4715	1468	3191	4715	1468	3191	4715	1468	3191	4715	1468
Grp Volume(v), veh/h	233	392	107	153	762	92	121	1208	170	140	770	90
Grp Sat Flow(s),veh/h/ln	1596	1572	1468	1596	1572	1468	1596	1572	1468	1596	1572	1468
Q Serve(g_s), s	8.0	7.9	3.1	5.4	17.7	5.1	2.9	19.7	7.5	4.9	17.7	5.9
Cycle Q Clear(g_c), s	8.0	7.9	3.1	5.4	17.7	5.1	2.9	19.7	7.5	4.9	17.7	5.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	334	1100	343	211	919	286	1132	2352	732	196	969	302
V/C Ratio(X)	0.70	0.36	0.31	0.73	0.83	0.32	0.11	0.51	0.23	0.71	0.79	0.30
Avail Cap(c_a), veh/h	476	1324	412	364	1158	361	1132	2352	732	336	1696	528
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	49.3	36.5	7.2	52.2	44.1	27.6	24.7	19.3	16.2	52.5	43.0	38.3
Incr Delay (d2), s/veh	2.6	0.2	0.5	4.7	4.2	0.6	0.0	0.8	0.7	4.7	6.7	2.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.7	3.5	1.3	2.5	8.0	2.1	1.3	8.7	3.2	2.3	8.3	2.6
LnGrp Delay(d),s/veh	52.0	36.7	7.7	56.9	48.3	28.2	24.7	20.1	16.9	57.2	49.7	40.8
LnGrp LOS	D	D	A	E	D	C	C	C	B	E	D	D
Approach Vol, veh/h		732			1007			1499			1000	
Approach Delay, s/veh		37.3			47.7			20.1			49.9	
Approach LOS		D			D			C			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.0	60.9	11.5	30.6	44.4	27.4	15.9	26.2
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	7.0	41.0	13.0	32.0	12.0	41.0	17.0	28.0
Max Q Clear Time (g_c+I1), s	6.9	21.7	7.4	9.9	4.9	19.7	10.0	19.7
Green Ext Time (p_c), s	0.2	6.9	0.2	3.1	3.9	3.8	1.9	2.5

Intersection Summary	
HCM 2010 Ctrl Delay	36.7
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	113	1105	539	202	861	10	774	98	71	21	178	137
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	123	1201	586	220	936	11	989	0	0	23	193	149
Adj No. of Lanes	1	2	1	1	3	0	2	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	151	948	424	165	1428	17	768	825	0	0	181	140
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00
Prop Arrive On Green	0.09	0.29	0.29	0.10	0.30	0.30	0.08	0.00	0.00	0.00	0.20	0.20
Ln Grp Delay, s/veh	42.4	152.9	205.1	227.5	29.3	30.6	178.2	0.0	0.0	0.0	0.0	104.9
Ln Grp LOS	D	F	F	F	C	C	F					F
Approach Vol, veh/h		1910			1167			989			342	
Approach Delay, s/veh		161.8			67.0			178.2			104.9	
Approach LOS		F			E			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	6	5	7	8
Case No	0.0	4.0	3.0	2.0	4.0	2.0	2.0	4.0
Phs Duration (G+Y+Rc), s	0.0	47.0	30.0	13.0	22.0	25.0	12.2	30.8
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	4.0	35.0	26.0	9.0	18.0	21.0	10.0	25.0
Max Allow Headway (MAH), s	0.0	0.0	4.1	4.0	4.2	4.1	4.1	4.0
Max Q Clear (g_c+I1), s	0.0	0.0	28.0	11.0	20.0	23.0	8.6	17.3
Green Ext Time (g_e), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
Prob of Phs Call (p_c)	0.00	1.00	1.00	1.00	1.00	1.00	0.95	1.00
Prob of Max Out (p_x)	0.00	0.00	1.00	1.00	1.00	1.00	1.00	0.52

Left-Turn Movement Data								
Assigned Mvmt	1			3		5	7	
Mvmt Sat Flow, veh/h	0			1645		3290	1645	

Through Movement Data								
Assigned Mvmt		2	4		6			8
Mvmt Sat Flow, veh/h		1727	3282		905			4805

Right-Turn Movement Data								
Assigned Mvmt		12	14		16			18
Mvmt Sat Flow, veh/h		0	1468		699			56

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	0	5	7	0
Lane Assignment				(Prot)		(Prot)	(Prot)	
Lanes in Grp	0	0	0	1	0	2	1	0

Grp Vol (v), veh/h	0	0	0	220	0	989	123	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1645	0	1645	1645	0
Q Serve Time (g_s), s	0.0	0.0	0.0	9.0	0.0	21.0	6.6	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	9.0	0.0	21.0	6.6	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	0	0	165	0	768	151	0
V/C Ratio (X)	0.00	0.00	0.00	1.34	0.00	1.29	0.82	0.00
Avail Cap (c_a), veh/h	0	0	0	165	0	768	183	0
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.70	0.09	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	40.5	0.0	41.5	40.1	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	187.0	0.0	136.7	2.3	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	227.5	0.0	178.2	42.4	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	4.1	0.0	9.6	3.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	8.5	0.0	14.6	0.1	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	12.6	0.0	24.1	3.1	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	1.03	0.00	2.07	0.57	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	13.9	0.0	55.3	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.0	0.3	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	6	0	0	8
Lane Assignment		T	T					T
Lanes in Grp	0	1	2	0	0	0	0	2
Grp Vol (v), veh/h	0	0	1201	0	0	0	0	612
Grp Sat Flow (s), veh/h/ln	0	1727	1641	0	0	0	0	1572
Q Serve Time (g_s), s	0.0	0.0	26.0	0.0	0.0	0.0	0.0	15.3
Cycle Q Clear Time (g_c), s	0.0	0.0	26.0	0.0	0.0	0.0	0.0	15.3
Lane Grp Cap (c), veh/h	0	825	948	0	0	0	0	934
V/C Ratio (X)	0.00	0.00	1.27	0.00	0.00	0.00	0.00	0.66
Avail Cap (c_a), veh/h	0	825	948	0	0	0	0	934
Upstream Filter (I)	0.00	0.00	0.09	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	32.0	0.0	0.0	0.0	0.0	27.6
Incr Delay (d2), s/veh	0.0	0.0	120.9	0.0	0.0	0.0	0.0	1.7
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	152.9	0.0	0.0	0.0	0.0	29.3
1st-Term Q (Q1), veh/ln	0.0	0.0	11.7	0.0	0.0	0.0	0.0	6.6
2nd-Term Q (Q2), veh/ln	0.0	0.0	15.9	0.0	0.0	0.0	0.0	0.2

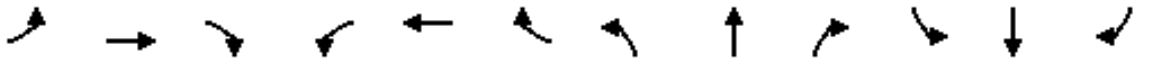
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	27.6	0.0	0.0	0.0	0.0	6.8
%ile Storage Ratio (RQ%)	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.34
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	63.2	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	14	0	16	0	0	18
Lane Assignment			R		T+R			T+R
Lanes in Grp	0	0	1	0	1	0	0	1
Grp Vol (v), veh/h	0	0	586	0	342	0	0	335
Grp Sat Flow (s), veh/h/ln	0	0	1468	0	1604	0	0	1717
Q Serve Time (g_s), s	0.0	0.0	26.0	0.0	18.0	0.0	0.0	15.3
Cycle Q Clear Time (g_c), s	0.0	0.0	26.0	0.0	18.0	0.0	0.0	15.3
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.00	1.00	0.00	0.44	0.00	0.00	0.03
Lane Grp Cap (c), veh/h	0	0	424	0	321	0	0	510
V/C Ratio (X)	0.00	0.00	1.38	0.00	1.07	0.00	0.00	0.66
Avail Cap (c_a), veh/h	0	0	424	0	321	0	0	510
Upstream Filter (I)	0.00	0.00	0.09	0.00	1.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	32.0	0.0	36.0	0.0	0.0	27.6
Incr Delay (d2), s/veh	0.0	0.0	173.1	0.0	68.9	0.0	0.0	3.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	205.1	0.0	104.9	0.0	0.0	30.6
1st-Term Q (Q1), veh/ln	0.0	0.0	10.5	0.0	7.9	0.0	0.0	7.3
2nd-Term Q (Q2), veh/ln	0.0	0.0	20.4	0.0	6.1	0.0	0.0	0.4
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	30.9	0.0	14.1	0.0	0.0	7.7
%ile Storage Ratio (RQ%)	0.00	0.00	6.56	0.00	0.25	0.00	0.00	0.38
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	40.5	0.0	5.3	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	136.0
HCM 2010 LOS	F

Notes

User approved volume balancing among the lanes for turning movement.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	113	1105	539	202	861	10	774	98	71	21	178	137
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	123	1201	586	220	936	11	989	0	0	23	193	149
Adj No. of Lanes	1	2	1	1	3	0	2	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	151	948	424	165	1428	17	768	825	0	0	181	140
Arrive On Green	0.09	0.29	0.29	0.10	0.30	0.30	0.08	0.00	0.00	0.00	0.20	0.20
Sat Flow, veh/h	1645	3282	1468	1645	4805	56	3290	1727	0	0	905	699
Grp Volume(v), veh/h	123	1201	586	220	612	335	989	0	0	0	0	342
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1572	1717	1645	1727	0	0	0	1604
Q Serve(g_s), s	6.6	26.0	26.0	9.0	15.3	15.3	21.0	0.0	0.0	0.0	0.0	18.0
Cycle Q Clear(g_c), s	6.6	26.0	26.0	9.0	15.3	15.3	21.0	0.0	0.0	0.0	0.0	18.0
Prop In Lane	1.00		1.00	1.00		0.03	1.00		0.00	0.00		0.44
Lane Grp Cap(c), veh/h	151	948	424	165	934	510	768	825	0	0	0	321
V/C Ratio(X)	0.82	1.27	1.38	1.34	0.66	0.66	1.29	0.00	0.00	0.00	0.00	1.07
Avail Cap(c_a), veh/h	183	948	424	165	934	510	768	825	0	0	0	321
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00
Upstream Filter(I)	0.09	0.09	0.09	1.00	1.00	1.00	0.70	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d), s/veh	40.1	32.0	32.0	40.5	27.6	27.6	41.5	0.0	0.0	0.0	0.0	36.0
Incr Delay (d2), s/veh	2.3	120.9	173.1	187.0	1.7	3.0	136.7	0.0	0.0	0.0	0.0	68.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.1	27.6	30.9	12.6	6.8	7.7	24.1	0.0	0.0	0.0	0.0	14.1
LnGrp Delay(d),s/veh	42.4	152.9	205.1	227.5	29.3	30.6	178.2	0.0	0.0	0.0	0.0	104.9
LnGrp LOS	D	F	F	F	C	C	F					F
Approach Vol, veh/h		1910			1167			989			342	
Approach Delay, s/veh		161.8			67.0			178.2			104.9	
Approach LOS		F			E			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	0.0	47.0	13.0	30.0	25.0	22.0	12.2	30.8
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax),4s	0	35.0	9.0	26.0	21.0	18.0	10.0	25.0
Max Q Clear Time (g_c+I1),0s	0	0.0	11.0	28.0	23.0	20.0	8.6	17.3
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0

Intersection Summary		
HCM 2010 Ctrl Delay	136.0	
HCM 2010 LOS	F	

Notes

User approved volume balancing among the lanes for turning movement.



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Volume (veh/h)	239	439	68	227	744	101
Number	3	18	2	12	1	6
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	260	477	74	247	809	110
Adj No. of Lanes	2	1	1	1	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Opposing Right Turn Influence	Yes				Yes	
Cap, veh/h	957	440	327	278	1204	1056
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.67	1.67
Prop Arrive On Green	0.30	0.30	0.19	0.19	0.63	1.00
Ln Grp Delay, s/veh	24.2	98.5	32.5	67.2	13.2	0.0
Ln Grp LOS	C	F	C	E	B	A
Approach Vol, veh/h	737		321			919
Approach Delay, s/veh	72.3		59.2			11.6
Approach LOS	E		E			B

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	8			6		
Case No	7.0	2.0	9.0			4.0		
Phs Duration (G+Y+Rc), s	21.0	38.0	31.0			59.0		
Change Period (Y+Rc), s	4.0	4.0	4.0			4.0		
Max Green (Gmax), s	19.0	32.0	27.0			55.0		
Max Allow Headway (MAH), s	4.3	4.1	4.3			4.1		
Max Q Clear (g_c+I1), s	16.8	16.6	29.0			2.0		
Green Ext Time (g_e), s	0.3	3.7	0.0			4.5		
Prob of Phs Call (p_c)	1.00	1.00	1.00			1.00		
Prob of Max Out (p_x)	1.00	0.07	1.00			0.00		

Left-Turn Movement Data								
Assigned Mvmt	5	1	3					
Mvmt Sat Flow, veh/h	0	3191	3191					

Through Movement Data								
Assigned Mvmt	2		8			6		
Mvmt Sat Flow, veh/h	1727		0			1727		

Right-Turn Movement Data								
Assigned Mvmt	12		18			16		
Mvmt Sat Flow, veh/h	1468		1468			0		

Left Lane Group Data								
Assigned Mvmt	5	1	3	0	0	0	0	0
Lane Assignment		(Prot)						
Lanes in Grp	0	2	2	0	0	0	0	0

Grp Vol (v), veh/h	0	809	260	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	1596	1596	0	0	0	0	0
Q Serve Time (g_s), s	0.0	14.6	5.6	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	14.6	5.6	0.0	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	1596	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	1204	957	0	0	0	0	0
V/C Ratio (X)	0.00	0.67	0.27	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	1204	957	0	0	0	0	0
Upstream Filter (I)	0.00	0.09	1.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	13.1	24.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	13.2	24.2	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	6.4	2.5	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	6.4	2.5	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.52	0.32	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	2	0	8	0	0	6	0	0
Lane Assignment	T					T		
Lanes in Grp	1	0	0	0	0	1	0	0
Grp Vol (v), veh/h	74	0	0	0	0	110	0	0
Grp Sat Flow (s), veh/h/ln	1727	0	0	0	0	1727	0	0
Q Serve Time (g_s), s	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	327	0	0	0	0	1056	0	0
V/C Ratio (X)	0.23	0.00	0.00	0.00	0.00	0.10	0.00	0.00
Avail Cap (c_a), veh/h	365	0	0	0	0	1056	0	0
Upstream Filter (I)	1.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00
Uniform Delay (d1), s/veh	30.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	32.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
%ile Back of Q (50%), veh/ln	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Right Lane Group Data								
Assigned Mvmt	12	0	18	0	0	16	0	0
Lane Assignment	R		R					
Lanes in Grp	1	0	1	0	0	0	0	0
Grp Vol (v), veh/h	247	0	477	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	1468	0	1468	0	0	0	0	0
Q Serve Time (g_s), s	14.8	0.0	27.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	14.8	0.0	27.0	0.0	0.0	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	278	0	440	0	0	0	0	0
V/C Ratio (X)	0.89	0.00	1.08	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	310	0	440	0	0	0	0	0
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	35.6	0.0	31.5	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	31.6	0.0	67.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	67.2	0.0	98.5	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	6.0	0.0	10.9	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	2.4	0.0	8.2	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
%ile Back of Q (50%), veh/ln	8.4	0.0	19.1	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	2.84	0.00	0.01	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	9.1	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0

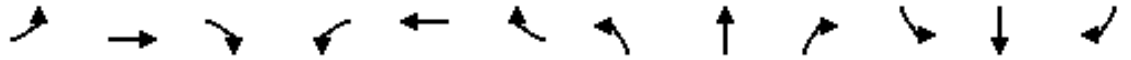
Intersection Summary	
HCM 2010 Ctrl Delay	42.0
HCM 2010 LOS	D



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Volume (veh/h)	239	439	68	227	744	101
Number	3	18	2	12	1	6
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	260	477	74	247	809	110
Adj No. of Lanes	2	1	1	1	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Cap, veh/h	957	440	327	278	1204	1056
Arrive On Green	0.30	0.30	0.19	0.19	0.63	1.00
Sat Flow, veh/h	3191	1468	1727	1468	3191	1727
Grp Volume(v), veh/h	260	477	74	247	809	110
Grp Sat Flow(s),veh/h/ln	1596	1468	1727	1468	1596	1727
Q Serve(g_s), s	5.6	27.0	3.3	14.8	14.6	0.0
Cycle Q Clear(g_c), s	5.6	27.0	3.3	14.8	14.6	0.0
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	957	440	327	278	1204	1056
V/C Ratio(X)	0.27	1.08	0.23	0.89	0.67	0.10
Avail Cap(c_a), veh/h	957	440	365	310	1204	1056
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.67	1.67
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.09	0.09
Uniform Delay (d), s/veh	24.0	31.5	30.9	35.6	13.1	0.0
Incr Delay (d2), s/veh	0.2	67.0	1.6	31.6	0.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.5	19.1	1.7	8.4	6.4	0.0
LnGrp Delay(d),s/veh	24.2	98.5	32.5	67.2	13.2	0.0
LnGrp LOS	C	F	C	E	B	A
Approach Vol, veh/h	737		321			919
Approach Delay, s/veh	72.3		59.2			11.6
Approach LOS	E		E			B

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2				6		8
Phs Duration (G+Y+Rc), s	38.0	21.0				59.0		31.0
Change Period (Y+Rc), s	4.0	4.0				4.0		4.0
Max Green Setting (Gmax), s	32.0	19.0				55.0		27.0
Max Q Clear Time (g_c+I1), s	16.6	16.8				2.0		29.0
Green Ext Time (p_c), s	3.7	0.3				4.5		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	42.0
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	93	349	147	316	452	79	46	357	126	67	645	19
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	101	379	160	343	491	86	50	388	137	73	701	21
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	140	310	131	289	515	90	61	409	145	118	618	19
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.08	0.27	0.27	0.18	0.36	0.36	0.04	0.34	0.34	0.07	0.37	0.37
Ln Grp Delay, s/veh	64.9	0.0	158.7	157.3	0.0	57.8	108.6	0.0	58.8	58.0	0.0	112.8
Ln Grp LOS	E		F	F		E	F		E	E		F
Approach Vol, veh/h		640			920			575			795	
Approach Delay, s/veh		143.9			94.9			63.1			107.8	
Approach LOS		F			F			E			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	6	5	8	7
Case No	4.0	2.0	4.0	2.0	4.0	2.0	4.0	2.0
Phs Duration (G+Y+Rc), s	40.2	11.8	33.0	23.0	44.0	8.0	42.8	13.2
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	39.0	5.0	29.0	19.0	40.0	4.0	41.0	7.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.0	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	35.5	6.7	31.0	21.0	42.0	5.3	38.1	8.5
Green Ext Time (g_e), s	0.8	0.0	0.0	0.0	0.0	0.0	0.7	0.0
Prob of Phs Call (p_c)	1.00	0.89	1.00	1.00	1.00	0.78	1.00	0.95
Prob of Max Out (p_x)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt		1		3		5		7
Mvmt Sat Flow, veh/h		1645		1645		1645		1645

Through Movement Data								
Assigned Mvmt	2		4		6		8	
Mvmt Sat Flow, veh/h	1220		1154		1668		1432	

Right-Turn Movement Data								
Assigned Mvmt	12		14		16		18	
Mvmt Sat Flow, veh/h	431		487		50		251	

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	0	5	0	7
Lane Assignment		(Prot)		(Prot)		(Prot)		(Prot)
Lanes in Grp	0	1	0	1	0	1	0	1

Grp Vol (v), veh/h	0	73	0	343	0	50	0	101
Grp Sat Flow (s), veh/h/ln	0	1645	0	1645	0	1645	0	1645
Q Serve Time (g_s), s	0.0	4.7	0.0	19.0	0.0	3.3	0.0	6.5
Cycle Q Clear Time (g_c), s	0.0	4.7	0.0	19.0	0.0	3.3	0.0	6.5
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	118	0	289	0	61	0	140
V/C Ratio (X)	0.00	0.62	0.00	1.19	0.00	0.82	0.00	0.72
Avail Cap (c_a), veh/h	0	118	0	289	0	61	0	140
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	48.7	0.0	44.5	0.0	51.6	0.0	48.2
Incr Delay (d2), s/veh	0.0	9.3	0.0	112.8	0.0	57.0	0.0	16.7
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	58.0	0.0	157.3	0.0	108.6	0.0	64.9
1st-Term Q (Q1), veh/ln	0.0	2.1	0.0	8.6	0.0	1.5	0.0	2.9
2nd-Term Q (Q2), veh/ln	0.0	0.3	0.0	9.1	0.0	1.0	0.0	0.6
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	2.4	0.0	17.7	0.0	2.5	0.0	3.6
%ile Storage Ratio (RQ%)	0.00	0.01	0.00	0.09	0.00	0.01	0.00	0.04
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	13.4	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	6	0	8	0
Lane Assignment								
Lanes in Grp	0	0	0	0	0	0	0	0
Grp Vol (v), veh/h	0	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	16	0	18	0
Lane Assignment	T+R		T+R		T+R		T+R	
Lanes in Grp	1	0	1	0	1	0	1	0
Grp Vol (v), veh/h	525	0	539	0	722	0	577	0
Grp Sat Flow (s), veh/h/ln	1651	0	1641	0	1718	0	1683	0
Q Serve Time (g_s), s	33.5	0.0	29.0	0.0	40.0	0.0	36.1	0.0
Cycle Q Clear Time (g_c), s	33.5	0.0	29.0	0.0	40.0	0.0	36.1	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.26	0.00	0.30	0.00	0.03	0.00	0.15	0.00
Lane Grp Cap (c), veh/h	554	0	441	0	636	0	605	0
V/C Ratio (X)	0.95	0.00	1.22	0.00	1.13	0.00	0.95	0.00
Avail Cap (c_a), veh/h	596	0	441	0	636	0	639	0
Upstream Filter (I)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	35.0	0.0	39.5	0.0	34.0	0.0	33.7	0.0
Incr Delay (d2), s/veh	23.8	0.0	119.2	0.0	78.8	0.0	24.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	58.8	0.0	158.7	0.0	112.8	0.0	57.8	0.0
1st-Term Q (Q1), veh/ln	15.2	0.0	13.1	0.0	18.9	0.0	16.7	0.0
2nd-Term Q (Q2), veh/ln	3.7	0.0	14.6	0.0	13.9	0.0	4.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	18.8	0.0	27.7	0.0	32.8	0.0	20.7	0.0
%ile Storage Ratio (RQ%)	0.05	0.00	0.28	0.00	0.08	0.00	0.11	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	24.6	0.0	21.4	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	102.8
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	93	349	147	316	452	79	46	357	126	67	645	19
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	101	379	160	343	491	86	50	388	137	73	701	21
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	140	310	131	289	515	90	61	409	145	118	618	19
Arrive On Green	0.08	0.27	0.27	0.18	0.36	0.36	0.04	0.34	0.34	0.07	0.37	0.37
Sat Flow, veh/h	1645	1154	487	1645	1432	251	1645	1220	431	1645	1668	50
Grp Volume(v), veh/h	101	0	539	343	0	577	50	0	525	73	0	722
Grp Sat Flow(s),veh/h/ln	1645	0	1641	1645	0	1683	1645	0	1651	1645	0	1718
Q Serve(g_s), s	6.5	0.0	29.0	19.0	0.0	36.1	3.3	0.0	33.5	4.7	0.0	40.0
Cycle Q Clear(g_c), s	6.5	0.0	29.0	19.0	0.0	36.1	3.3	0.0	33.5	4.7	0.0	40.0
Prop In Lane	1.00		0.30	1.00		0.15	1.00		0.26	1.00		0.03
Lane Grp Cap(c), veh/h	140	0	441	289	0	605	61	0	554	118	0	636
V/C Ratio(X)	0.72	0.00	1.22	1.19	0.00	0.95	0.82	0.00	0.95	0.62	0.00	1.13
Avail Cap(c_a), veh/h	140	0	441	289	0	639	61	0	596	118	0	636
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	48.2	0.0	39.5	44.5	0.0	33.7	51.6	0.0	35.0	48.7	0.0	34.0
Incr Delay (d2), s/veh	16.7	0.0	119.2	112.8	0.0	24.1	57.0	0.0	23.8	9.3	0.0	78.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.6	0.0	27.7	17.7	0.0	20.7	2.5	0.0	18.8	2.4	0.0	32.8
LnGrp Delay(d),s/veh	64.9	0.0	158.7	157.3	0.0	57.8	108.6	0.0	58.8	58.0	0.0	112.8
LnGrp LOS	E		F	F		E	F		E	E		F
Approach Vol, veh/h		640			920			575			795	
Approach Delay, s/veh		143.9			94.9			63.1			107.8	
Approach LOS		F			F			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.8	40.2	23.0	33.0	8.0	44.0	13.2	42.8
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	5.0	39.0	19.0	29.0	4.0	40.0	7.0	41.0
Max Q Clear Time (g_c+I1), s	6.7	35.5	21.0	31.0	5.3	42.0	8.5	38.1
Green Ext Time (p_c), s	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.7

Intersection Summary	
HCM 2010 Ctrl Delay	102.8
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	64	494	29	19	442	452	14	199	27	346	159	73
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1900	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	70	537	32	21	480	491	15	216	29	376	173	79
Adj No. of Lanes	1	1	0	1	1	1	0	1	0	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	96	582	35	31	555	471	0	253	34	418	816	694
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.06	0.36	0.36	0.02	0.32	0.32	0.00	0.17	0.17	0.25	0.47	0.47
Ln Grp Delay, s/veh	52.7	0.0	40.9	63.4	35.5	53.7	0.0	0.0	48.1	46.1	12.7	6.0
Ln Grp LOS	D		D	E	D	F			D	D	B	A
Approach Vol, veh/h		639			992			245			628	
Approach Delay, s/veh		42.2			45.1			48.1			31.8	
Approach LOS		D			D			D			C	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	8	7
Case No	2.0	4.0	2.0	4.0	0.0	3.0	3.0	2.0
Phs Duration (G+Y+Rc), s	24.6	17.7	5.5	33.3	0.0	42.3	30.0	8.7
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	25.0	17.0	4.0	34.0	4.0	38.0	32.0	6.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.0	0.0	4.1	4.2	4.0
Max Q Clear (g_c+I1), s	19.9	13.4	3.0	27.8	0.0	6.8	23.2	5.4
Green Ext Time (g_e), s	0.7	0.3	0.0	1.4	0.0	1.8	2.9	0.2
Prob of Phs Call (p_c)	1.00	1.00	0.38	1.00	0.00	1.00	1.00	0.79
Prob of Max Out (p_x)	0.63	1.00	1.00	0.52	0.00	0.00	0.42	1.00

Left-Turn Movement Data								
Assigned Mvmt	1		3		5			7
Mvmt Sat Flow, veh/h	1645		1645		0			1645

Through Movement Data								
Assigned Mvmt		2		4		6	8	
Mvmt Sat Flow, veh/h		1492		1614		1727	1727	

Right-Turn Movement Data								
Assigned Mvmt		12		14		16	18	
Mvmt Sat Flow, veh/h		200		96		1468	1468	

Left Lane Group Data								
Assigned Mvmt	1	0	3	0	5	0	0	7
Lane Assignment	(Prot)		(Prot)					(Prot)
Lanes in Grp	1	0	1	0	0	0	0	1

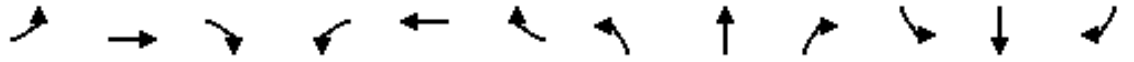
Grp Vol (v), veh/h	376	0	21	0	0	0	0	70
Grp Sat Flow (s), veh/h/ln	1645	0	1645	0	0	0	0	1645
Q Serve Time (g_s), s	17.9	0.0	1.0	0.0	0.0	0.0	0.0	3.4
Cycle Q Clear Time (g_c), s	17.9	0.0	1.0	0.0	0.0	0.0	0.0	3.4
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	418	0	31	0	0	0	0	96
V/C Ratio (X)	0.90	0.00	0.69	0.00	0.00	0.00	0.00	0.73
Avail Cap (c_a), veh/h	507	0	81	0	0	0	0	122
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	29.3	0.0	39.6	0.0	0.0	0.0	0.0	37.6
Incr Delay (d2), s/veh	16.9	0.0	23.8	0.0	0.0	0.0	0.0	15.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	46.1	0.0	63.4	0.0	0.0	0.0	0.0	52.7
1st-Term Q (Q1), veh/ln	8.1	0.0	0.5	0.0	0.0	0.0	0.0	1.5
2nd-Term Q (Q2), veh/ln	2.0	0.0	0.2	0.0	0.0	0.0	0.0	0.4
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	10.1	0.0	0.7	0.0	0.0	0.0	0.0	1.9
%ile Storage Ratio (RQ%)	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	8	0
Lane Assignment						T	T	
Lanes in Grp	0	0	0	0	0	1	1	0
Grp Vol (v), veh/h	0	0	0	0	0	173	480	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	1727	1727	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	4.8	21.2	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	4.8	21.2	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	816	555	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.21	0.87	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	816	682	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	12.5	25.9	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.1	9.6	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	12.7	35.5	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	2.3	10.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	2.3	11.5	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	18	0
Lane Assignment		T+R		T+R		R	R	
Lanes in Grp	0	1	0	1	0	1	1	0
Grp Vol (v), veh/h	0	245	0	569	0	79	491	0
Grp Sat Flow (s), veh/h/ln	0	1692	0	1710	0	1468	1468	0
Q Serve Time (g_s), s	0.0	11.4	0.0	25.8	0.0	1.7	12.5	0.0
Cycle Q Clear Time (g_c), s	0.0	11.4	0.0	25.8	0.0	1.7	12.5	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.12	0.00	0.06	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	287	0	617	0	694	471	0
V/C Ratio (X)	0.00	0.85	0.00	0.92	0.00	0.11	1.04	0.00
Avail Cap (c_a), veh/h	0	355	0	717	0	694	579	0
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	32.7	0.0	24.8	0.0	5.9	6.4	0.0
Incr Delay (d2), s/veh	0.0	15.4	0.0	16.0	0.0	0.1	47.4	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	48.1	0.0	40.9	0.0	6.0	53.7	0.0
1st-Term Q (Q1), veh/ln	0.0	5.3	0.0	12.2	0.0	0.9	6.9	0.0
2nd-Term Q (Q2), veh/ln	0.0	1.2	0.0	2.7	0.0	0.0	6.2	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	6.5	0.0	14.9	0.0	0.9	13.1	0.0
%ile Storage Ratio (RQ%)	0.00	0.02	0.00	0.08	0.00	0.00	0.01	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	41.3
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	64	494	29	19	442	452	14	199	27	346	159	73
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1900	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	70	537	32	21	480	491	15	216	29	376	173	79
Adj No. of Lanes	1	1	0	1	1	1	0	1	0	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	96	582	35	31	555	471	0	253	34	418	816	694
Arrive On Green	0.06	0.36	0.36	0.02	0.32	0.32	0.00	0.17	0.17	0.25	0.47	0.47
Sat Flow, veh/h	1645	1614	96	1645	1727	1468	0	1492	200	1645	1727	1468
Grp Volume(v), veh/h	70	0	569	21	480	491	0	0	245	376	173	79
Grp Sat Flow(s),veh/h/ln	1645	0	1710	1645	1727	1468	0	0	1692	1645	1727	1468
Q Serve(g_s), s	3.4	0.0	25.8	1.0	21.2	12.5	0.0	0.0	11.4	17.9	4.8	1.7
Cycle Q Clear(g_c), s	3.4	0.0	25.8	1.0	21.2	12.5	0.0	0.0	11.4	17.9	4.8	1.7
Prop In Lane	1.00		0.06	1.00		1.00	0.00		0.12	1.00		1.00
Lane Grp Cap(c), veh/h	96	0	617	31	555	471	0	0	287	418	816	694
V/C Ratio(X)	0.73	0.00	0.92	0.69	0.87	1.04	0.00	0.00	0.85	0.90	0.21	0.11
Avail Cap(c_a), veh/h	122	0	717	81	682	579	0	0	355	507	816	694
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	37.6	0.0	24.8	39.6	25.9	6.4	0.0	0.0	32.7	29.3	12.5	5.9
Incr Delay (d2), s/veh	15.1	0.0	16.0	23.8	9.6	47.4	0.0	0.0	15.4	16.9	0.1	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.9	0.0	14.9	0.7	11.5	13.1	0.0	0.0	6.5	10.1	2.3	0.9
LnGrp Delay(d),s/veh	52.7	0.0	40.9	63.4	35.5	53.7	0.0	0.0	48.1	46.1	12.7	6.0
LnGrp LOS	D		D	E	D	F			D	D	B	A
Approach Vol, veh/h		639			992			245			628	
Approach Delay, s/veh		42.2			45.1			48.1			31.8	
Approach LOS		D			D			D			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	24.6	17.7	5.5	33.3	0.0	42.3	8.7	30.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	20.0	17.0	4.0	34.0	4.0	38.0	6.0	32.0
Max Q Clear Time (g_c+I1), s	19.9	13.4	3.0	27.8	0.0	6.8	5.4	23.2
Green Ext Time (p_c), s	0.7	0.3	0.0	1.4	0.0	1.8	0.2	2.9

Intersection Summary	
HCM 2010 Ctrl Delay	41.3
HCM 2010 LOS	D

Intersection	
Int Delay, s/veh	23.6

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	14	503	729	184	145	22
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	15	547	792	200	158	24

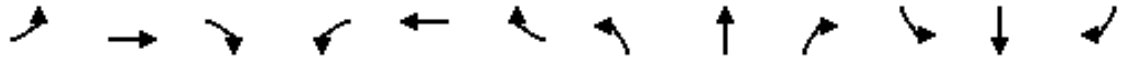
Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	992	0	-	0	1469	892
Stage 1	-	-	-	-	892	-
Stage 2	-	-	-	-	577	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	666	-	-	-	~ 135	330
Stage 1	-	-	-	-	388	-
Stage 2	-	-	-	-	546	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	666	-	-	-	~ 132	330
Mov Cap-2 Maneuver	-	-	-	-	~ 132	-
Stage 1	-	-	-	-	388	-
Stage 2	-	-	-	-	534	-

Approach	EB	WB	SB
HCM Control Delay, s	0.3	0	225.2
HCM LOS			F

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	666	-	-	-	143
HCM Lane V/C Ratio	0.023	-	-	-	1.269
HCM Control Delay (s)	10.5	-	-	-	225.2
HCM Lane LOS	B	-	-	-	F
HCM 95th %tile Q(veh)	0.1	-	-	-	11

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	37	395	18	5	695	69	27	49	9	45	79	105
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1727	1900	1727	1727	1727	1900	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	40	429	20	5	755	75	29	53	10	49	86	114
Adj No. of Lanes	0	1	0	1	1	1	0	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	0	698	33	9	823	699	0	85	16	0	100	133
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.00	0.43	0.43	0.01	0.48	0.48	0.24	0.06	0.06	0.33	0.15	0.15
Ln Grp Delay, s/veh	0.0	0.0	20.9	93.0	33.8	0.6	0.0	0.0	67.4	0.0	0.0	68.4
Ln Grp LOS			C	F	C	A			E			E
Approach Vol, veh/h		449			835			63			200	
Approach Delay, s/veh		20.9			31.2			67.4			68.4	
Approach LOS		C			C			E			E	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	6	5	7	8
Case No	4.0	0.0	2.0	4.0	4.0	0.0	0.0	3.0
Phs Duration (G+Y+Rc), s	9.4	33.8	4.5	42.4	17.4	25.8	0.0	46.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	16.0	4.0	4.0	50.0	16.0	4.0	4.0	50.0
Max Allow Headway (MAH), s	4.1	0.0	4.1	4.0	4.2	0.0	0.0	4.0
Max Q Clear (g_c+I1), s	5.3	0.0	2.3	20.3	13.2	0.0	0.0	38.6
Green Ext Time (g_e), s	0.1	0.0	0.0	5.8	0.2	0.0	0.0	4.3
Prob of Phs Call (p_c)	1.00	0.00	0.12	1.00	1.00	0.00	0.00	1.00
Prob of Max Out (p_x)	0.00	0.00	1.00	0.03	1.00	0.00	0.00	0.37

Left-Turn Movement Data								
Assigned Mvmt		1	3			5	7	
Mvmt Sat Flow, veh/h		0	1645			0	0	

Through Movement Data								
Assigned Mvmt	2			4	6			8
Mvmt Sat Flow, veh/h	1414			1637	675			1727

Right-Turn Movement Data								
Assigned Mvmt	12			14	16			18
Mvmt Sat Flow, veh/h	267			76	895			1468

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	0	5	7	0
Lane Assignment			(Prot)					
Lanes in Grp	0	0	1	0	0	0	0	0

Grp Vol (v), veh/h	0	0	5	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	1645	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	0	9	0	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.58	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	73	0	0	0	0	0
Upstream Filter (I)	0.00	0.00	0.96	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	44.7	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	48.3	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	93.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	6	0	0	8
Lane Assignment								T
Lanes in Grp	0	0	0	0	0	0	0	1
Grp Vol (v), veh/h	0	0	0	0	0	0	0	755
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	1727
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.6
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.6
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	823
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	960
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.96
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.9
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.8
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.4
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.1
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	0	14	16	0	0	18
Lane Assignment	T+R			T+R	T+R			R
Lanes in Grp	1	0	0	1	1	0	0	1
Grp Vol (v), veh/h	63	0	0	449	200	0	0	75
Grp Sat Flow (s), veh/h/ln	1680	0	0	1714	1569	0	0	1468
Q Serve Time (g_s), s	3.3	0.0	0.0	18.3	11.2	0.0	0.0	0.5
Cycle Q Clear Time (g_c), s	3.3	0.0	0.0	18.3	11.2	0.0	0.0	0.5
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.16	0.00	0.00	0.04	0.57	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	101	0	0	731	233	0	0	699
V/C Ratio (X)	0.63	0.00	0.00	0.61	0.86	0.00	0.00	0.11
Avail Cap (c_a), veh/h	299	0	0	952	279	0	0	816
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.99	0.00	0.00	0.96
Uniform Delay (d1), s/veh	41.3	0.0	0.0	20.1	37.4	0.0	0.0	0.5
Incr Delay (d2), s/veh	26.0	0.0	0.0	0.8	31.0	0.0	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	67.4	0.0	0.0	20.9	68.4	0.0	0.0	0.6
1st-Term Q (Q1), veh/ln	1.5	0.0	0.0	8.6	4.8	0.0	0.0	0.2
2nd-Term Q (Q2), veh/ln	0.7	0.0	0.0	0.2	2.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	2.2	0.0	0.0	8.8	6.8	0.0	0.0	0.2
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.05	0.02	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	34.5
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	37	395	18	5	695	69	27	49	9	45	79	105
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1727	1900	1727	1727	1727	1900	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	40	429	20	5	755	75	29	53	10	49	86	114
Adj No. of Lanes	0	1	0	1	1	1	0	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	0	698	33	9	823	699	0	85	16	0	100	133
Arrive On Green	0.00	0.43	0.43	0.01	0.48	0.48	0.24	0.06	0.06	0.33	0.15	0.15
Sat Flow, veh/h	0	1637	76	1645	1727	1468	0	1414	267	0	675	895
Grp Volume(v), veh/h	0	0	449	5	755	75	0	0	63	0	0	200
Grp Sat Flow(s),veh/h/ln	0	0	1714	1645	1727	1468	0	0	1680	0	0	1569
Q Serve(g_s), s	0.0	0.0	18.3	0.3	36.6	0.5	0.0	0.0	3.3	0.0	0.0	11.2
Cycle Q Clear(g_c), s	0.0	0.0	18.3	0.3	36.6	0.5	0.0	0.0	3.3	0.0	0.0	11.2
Prop In Lane	0.00		0.04	1.00		1.00	0.00		0.16	0.00		0.57
Lane Grp Cap(c), veh/h	0	0	731	9	823	699	0	0	101	0	0	233
V/C Ratio(X)	0.00	0.00	0.61	0.58	0.92	0.11	0.00	0.00	0.63	0.00	0.00	0.86
Avail Cap(c_a), veh/h	0	0	952	73	960	816	0	0	299	0	0	279
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.00	1.00	0.96	0.96	0.96	0.00	0.00	1.00	0.00	0.00	0.99
Uniform Delay (d), s/veh	0.0	0.0	20.1	44.7	21.9	0.5	0.0	0.0	41.3	0.0	0.0	37.4
Incr Delay (d2), s/veh	0.0	0.0	0.8	48.3	11.9	0.1	0.0	0.0	26.0	0.0	0.0	31.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.0	8.8	0.2	20.1	0.2	0.0	0.0	2.2	0.0	0.0	6.8
LnGrp Delay(d),s/veh	0.0	0.0	20.9	93.0	33.8	0.6	0.0	0.0	67.4	0.0	0.0	68.4
LnGrp LOS			C	F	C	A			E			E
Approach Vol, veh/h		449			835			63			200	
Approach Delay, s/veh		20.9			31.2			67.4			68.4	
Approach LOS		C			C			E			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	33.8	9.4	4.5	42.4	25.8	17.4	0.0	46.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	40	16.0	4.0	50.0	4.0	16.0	4.0	50.0
Max Q Clear Time (g_c+I1), s	0.0	5.3	2.3	20.3	0.0	13.2	0.0	38.6
Green Ext Time (p_c), s	0.0	0.1	0.0	5.8	0.0	0.2	0.0	4.3

Intersection Summary	
HCM 2010 Ctrl Delay	34.5
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NWL	NWR	NWR2	SWL2	SWL	SWR
Lane Configurations												
Volume (veh/h)	0	757	23	81	284	49	0	0	0	0	0	0
Number	7	4	14	3	8	18	5	12	12	1	1	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	823	25	88	309	53	0	0	0	0	0	0
Adj No. of Lanes	1	1	0	1	1	0	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes	Yes	
Cap, veh/h	2	857	26	110	893	153	2	0	0	488	488	436
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.00	0.51	0.51	0.07	0.62	0.62	0.00	0.00	0.00	0.00	0.00	0.00
Ln Grp Delay, s/veh	0.0	0.0	26.0	69.2	0.0	9.1	0.0	0.0	0.0	0.0	0.0	0.0
Ln Grp LOS			C	E		A						
Approach Vol, veh/h		848			450		0			0	0	
Approach Delay, s/veh		26.0			20.9		0.0			0.0	0.0	
Approach LOS		C			C							

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1		4	3	5	6	7	8
Case No	2.0		4.0	2.0	2.0	3.0	2.0	4.0
Phs Duration (G+Y+Rc), s	33.1		54.4	10.5	0.0	33.1	0.0	64.9
Change Period (Y+Rc), s	4.0		4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	4.0		54.0	8.0	4.0	16.0	4.0	58.0
Max Allow Headway (MAH), s	0.0		4.0	4.1	0.0	0.0	0.0	4.1
Max Q Clear (g_c+I1), s	0.0		48.4	7.2	0.0	0.0	0.0	12.2
Green Ext Time (g_e), s	0.0		2.0	0.0	0.0	0.0	0.0	1.7
Prob of Phs Call (p_c)	0.00		1.00	0.91	0.00	0.00	0.00	1.00
Prob of Max Out (p_x)	0.00		0.71	1.00	0.00	0.00	0.00	0.00

Left-Turn Movement Data								
Assigned Mvmt	1			3	5		7	
Mvmt Sat Flow, veh/h	1645			1645	1645		1645	

Through Movement Data								
Assigned Mvmt			4			6		8
Mvmt Sat Flow, veh/h			1668			1727		1437

Right-Turn Movement Data								
Assigned Mvmt			14			16		18
Mvmt Sat Flow, veh/h			51			1468		247

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	5	0	7	0
Lane Assignment	(Prot)			(Prot)	(Prot)		(Prot)	
Lanes in Grp	1	0	0	1	1	0	1	0

Grp Vol (v), veh/h	0	0	0	88	0	0	0	0
Grp Sat Flow (s), veh/h/ln	1645	0	0	1645	1645	0	1645	0
Q Serve Time (g_s), s	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	488	0	0	110	2	0	2	0
V/C Ratio (X)	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	488	0	0	134	67	0	67	0
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	45.1	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	24.1	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	69.2	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	0	4	0	0	6	0	8
Lane Assignment						T		
Lanes in Grp	0	0	0	0	0	1	0	0
Grp Vol (v), veh/h	0	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	1727	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	513	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	513	0	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	0	14	0	0	16	0	18
Lane Assignment			T+R			R		T+R
Lanes in Grp	0	0	1	0	0	1	0	1
Grp Vol (v), veh/h	0	0	848	0	0	0	0	362
Grp Sat Flow (s), veh/h/ln	0	0	1718	0	0	1468	0	1684
Q Serve Time (g_s), s	0.0	0.0	46.4	0.0	0.0	0.0	0.0	10.2
Cycle Q Clear Time (g_c), s	0.0	0.0	46.4	0.0	0.0	0.0	0.0	10.2
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.00	0.03	0.00	0.00	1.00	0.00	0.15
Lane Grp Cap (c), veh/h	0	0	883	0	0	436	0	1047
V/C Ratio (X)	0.00	0.00	0.96	0.00	0.00	0.00	0.00	0.35
Avail Cap (c_a), veh/h	0	0	947	0	0	436	0	1047
Upstream Filter (I)	0.00	0.00	0.09	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	22.8	0.0	0.0	0.0	0.0	8.9
Incr Delay (d2), s/veh	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	26.0	0.0	0.0	0.0	0.0	9.1
1st-Term Q (Q1), veh/ln	0.0	0.0	21.9	0.0	0.0	0.0	0.0	4.6
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	22.7	0.0	0.0	0.0	0.0	4.7
%ile Storage Ratio (RQ%)	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	24.2
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NWL	NWR	NWR2	SWL2	SWL	SWR
Lane Configurations												
Volume (veh/h)	0	757	23	81	284	49	0	0	0	0	0	0
Number	7	4	14	3	8	18	5	12	12	1	1	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	823	25	88	309	53	0	0	0	0	0	0
Adj No. of Lanes	1	1	0	1	1	0	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	2	857	26	110	893	153	2	0	0	488	488	436
Arrive On Green	0.00	0.51	0.51	0.07	0.62	0.62	0.00	0.00	0.00	0.00	0.00	0.00
Sat Flow, veh/h	1645	1668	51	1645	1437	247	1645			1645	1645	1468
Grp Volume(v), veh/h	0	0	848	88	0	362	0			0	0	0
Grp Sat Flow(s),veh/h/ln	1645	0	1718	1645	0	1684	1645			1645	1645	1468
Q Serve(g_s), s	0.0	0.0	46.4	5.2	0.0	10.2	0.0			0.0	0.0	0.0
Cycle Q Clear(g_c), s	0.0	0.0	46.4	5.2	0.0	10.2	0.0			0.0	0.0	0.0
Prop In Lane	1.00		0.03	1.00		0.15	1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	2	0	883	110	0	1047	2			488	488	436
V/C Ratio(X)	0.00	0.00	0.96	0.80	0.00	0.35	0.00			0.00	0.00	0.00
Avail Cap(c_a), veh/h	67	0	947	134	0	1047	67			488	488	436
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00			1.00	1.00	1.00
Upstream Filter(I)	0.00	0.00	0.09	1.00	0.00	1.00	0.00			0.00	0.00	0.00
Uniform Delay (d), s/veh	0.0	0.0	22.8	45.1	0.0	8.9	0.0			0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	3.1	24.1	0.0	0.2	0.0			0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.0	22.7	3.1	0.0	4.7	0.0			0.0	0.0	0.0
LnGrp Delay(d),s/veh	0.0	0.0	26.0	69.2	0.0	9.1	0.0			0.0	0.0	0.0
LnGrp LOS			C	E		A						
Approach Vol, veh/h		848			450		0			0	0	
Approach Delay, s/veh		26.0			20.9		0.0			0.0	0.0	
Approach LOS		C			C							

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1		3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	33.1		10.5	54.4	0.0	33.1	0.0	64.9
Change Period (Y+Rc), s	4.0		4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	40		8.0	54.0	4.0	16.0	4.0	58.0
Max Q Clear Time (g_c+I1), s	0		7.2	48.4	0.0	0.0	0.0	12.2
Green Ext Time (p_c), s	0.0		0.0	2.0	0.0	0.0	0.0	1.7

Intersection Summary	
HCM 2010 Ctrl Delay	24.2
HCM 2010 LOS	C

Intersection	
Intersection Delay, s/veh	40.9
Intersection LOS	E

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Vol, veh/h	0	14	33	3	0	452	129	18	0	4	49	26	0	16	260	14
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	15	36	3	0	491	140	20	0	4	53	28	0	17	283	15
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	10.3	59.1	10.9	16.8
HCM LOS	B	F	B	C

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	5%	28%	75%	6%
Vol Thru, %	62%	66%	22%	90%
Vol Right, %	33%	6%	3%	5%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	79	50	599	290
LT Vol	4	14	452	16
Through Vol	49	33	129	260
RT Vol	26	3	18	14
Lane Flow Rate	86	54	651	315
Geometry Grp	1	1	1	1
Degree of Util (X)	0.159	0.099	1	0.553
Departure Headway (Hd)	6.669	6.569	5.607	6.312
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	544	550	645	580
Service Time	4.636	4.557	3.663	4.274
HCM Lane V/C Ratio	0.158	0.098	1.009	0.543
HCM Control Delay	10.9	10.3	59.1	16.8
HCM Lane LOS	B	B	F	C
HCM 95th-tile Q	0.6	0.3	15.4	3.4

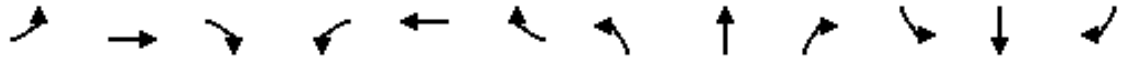
Intersection	
Int Delay, s/veh	1.6

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	12	77	260	31	26	26
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	13	84	283	34	28	28

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	316	0	-	0	409	299
Stage 1	-	-	-	-	299	-
Stage 2	-	-	-	-	110	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1200	-	-	-	584	722
Stage 1	-	-	-	-	734	-
Stage 2	-	-	-	-	895	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1200	-	-	-	578	722
Mov Cap-2 Maneuver	-	-	-	-	578	-
Stage 1	-	-	-	-	734	-
Stage 2	-	-	-	-	885	-

Approach	EB	WB	SB
HCM Control Delay, s	1.1	0	11.1
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1200	-	-	-	642
HCM Lane V/C Ratio	0.011	-	-	-	0.088
HCM Control Delay (s)	8	0	-	-	11.1
HCM Lane LOS	A	A	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0.3



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	16	293	81	62	265	33	14	52	19	18	153	23
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1727	1900	1900	1727	1900	1900	1727	1727	1900	1727	1900
Adj Flow Rate, veh/h	17	318	88	67	288	36	15	57	21	20	166	25
Adj No. of Lanes	0	1	0	0	1	0	0	1	1	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	169	543	146	243	543	62	223	349	349	187	326	47
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.42	0.42	0.42	0.42	0.42	0.42	0.24	0.24	0.24	0.24	0.24	0.24
Ln Grp Delay, s/veh	5.7	0.0	0.0	5.5	0.0	0.0	7.3	0.0	7.1	8.3	0.0	0.0
Ln Grp LOS	A			A			A		A	A		
Approach Vol, veh/h		423			391			93			211	
Approach Delay, s/veh		5.7			5.5			7.2			8.3	
Approach LOS		A			A			A			A	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Case No		7.0		8.0		8.0		8.0
Phs Duration (G+Y+Rc), s		9.6		14.1		9.6		14.1
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green (Gmax), s		32.0		50.0		32.0		50.0
Max Allow Headway (MAH), s		4.1		4.2		4.1		4.2
Max Q Clear (g_c+I1), s		2.8		6.6		4.6		6.1
Green Ext Time (g_e), s		1.1		3.5		1.0		3.5
Prob of Phs Call (p_c)		1.00		1.00		1.00		1.00
Prob of Max Out (p_x)		0.00		0.00		0.00		0.00

Left-Turn Movement Data								
Assigned Mvmt		5		7		1		3
Mvmt Sat Flow, veh/h		164		26		88		154

Through Movement Data								
Assigned Mvmt		2		4		6		8
Mvmt Sat Flow, veh/h		1470		1279		1372		1279

Right-Turn Movement Data								
Assigned Mvmt		12		14		16		18
Mvmt Sat Flow, veh/h		1468		343		196		145

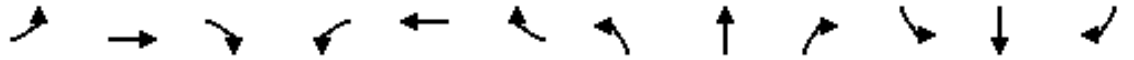
Left Lane Group Data								
Assigned Mvmt	0	5	0	7	0	1	0	3
Lane Assignment		L+T		L+T+R		L+T+R		L+T+R
Lanes in Grp	0	1	0	1	0	1	0	1

Grp Vol (v), veh/h	0	72	0	423	0	211	0	391
Grp Sat Flow (s), veh/h/ln	0	1634	0	1647	0	1656	0	1578
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.8	0.0	4.6	0.0	2.6	0.0	4.1
Perm LT Sat Flow (s_l), veh/h/ln	0	1211	0	1073	0	1342	0	995
Shared LT Sat Flow (s_sh), veh/h/ln	0	1709	0	1724	0	0	0	1713
Perm LT Eff Green (g_p), s	0.0	5.6	0.0	10.1	0.0	5.6	0.0	10.1
Perm LT Serve Time (g_u), s	0.0	3.0	0.0	6.0	0.0	4.8	0.0	5.4
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
Time to First Blk (g_f), s	0.0	2.8	0.0	6.1	0.0	2.4	0.0	4.0
Serve Time pre Blk (g_fs), s	0.0	0.8	0.0	4.6	0.0	2.4	0.0	4.0
Prop LT Inside Lane (P_L)	0.00	0.21	0.00	0.04	0.00	0.09	0.00	0.17
Lane Grp Cap (c), veh/h	0	572	0	858	0	560	0	849
V/C Ratio (X)	0.00	0.13	0.00	0.49	0.00	0.38	0.00	0.46
Avail Cap (c_a), veh/h	0	2291	0	3585	0	2373	0	3333
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	7.2	0.0	5.3	0.0	7.9	0.0	5.1
Incr Delay (d2), s/veh	0.0	0.1	0.0	0.4	0.0	0.4	0.0	0.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	7.3	0.0	5.7	0.0	8.3	0.0	5.5
1st-Term Q (Q1), veh/ln	0.0	0.4	0.0	2.1	0.0	1.2	0.0	1.8
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.4	0.0	2.2	0.0	1.2	0.0	1.9
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	0	8
Lane Assignment								
Lanes in Grp	0	0	0	0	0	0	0	0
Grp Vol (v), veh/h	0	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	0	18
Lane Assignment		R						
Lanes in Grp	0	1	0	0	0	0	0	0
Grp Vol (v), veh/h	0	21	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	1468	0	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	0.21	0.00	0.12	0.00	0.09
Lane Grp Cap (c), veh/h	0	349	0	0	0	0	0	0
V/C Ratio (X)	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	1983	0	0	0	0	0	0
Upstream Filter (I)	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	7.1	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

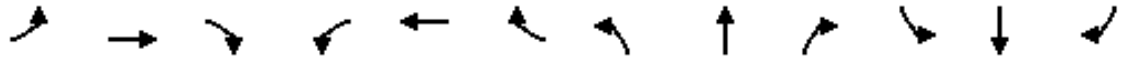
Intersection Summary	
HCM 2010 Ctrl Delay	6.2
HCM 2010 LOS	A



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	16	293	81	62	265	33	14	52	19	18	153	23
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1727	1900	1900	1727	1900	1900	1727	1727	1900	1727	1900
Adj Flow Rate, veh/h	17	318	88	67	288	36	15	57	21	20	166	25
Adj No. of Lanes	0	1	0	0	1	0	0	1	1	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	169	543	146	243	543	62	223	349	349	187	326	47
Arrive On Green	0.42	0.42	0.42	0.42	0.42	0.42	0.24	0.24	0.24	0.24	0.24	0.24
Sat Flow, veh/h	26	1279	343	154	1279	145	164	1470	1468	88	1372	196
Grp Volume(v), veh/h	423	0	0	391	0	0	72	0	21	211	0	0
Grp Sat Flow(s),veh/h/ln	1647	0	0	1578	0	0	1634	0	1468	1656	0	0
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.0	0.0
Cycle Q Clear(g_c), s	4.6	0.0	0.0	4.1	0.0	0.0	0.8	0.0	0.3	2.6	0.0	0.0
Prop In Lane	0.04		0.21	0.17		0.09	0.21		1.00	0.09		0.12
Lane Grp Cap(c), veh/h	858	0	0	849	0	0	572	0	349	560	0	0
V/C Ratio(X)	0.49	0.00	0.00	0.46	0.00	0.00	0.13	0.00	0.06	0.38	0.00	0.00
Avail Cap(c_a), veh/h	3585	0	0	3333	0	0	2291	0	1983	2373	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	5.3	0.0	0.0	5.1	0.0	0.0	7.2	0.0	7.0	7.9	0.0	0.0
Incr Delay (d2), s/veh	0.4	0.0	0.0	0.4	0.0	0.0	0.1	0.0	0.1	0.4	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.2	0.0	0.0	1.9	0.0	0.0	0.4	0.0	0.1	1.2	0.0	0.0
LnGrp Delay(d),s/veh	5.7	0.0	0.0	5.5	0.0	0.0	7.3	0.0	7.1	8.3	0.0	0.0
LnGrp LOS	A			A			A		A	A		
Approach Vol, veh/h		423			391			93			211	
Approach Delay, s/veh		5.7			5.5			7.2			8.3	
Approach LOS		A			A			A			A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Phs Duration (G+Y+Rc), s		9.6		14.1		9.6		14.1
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green Setting (Gmax), s		32.0		50.0		32.0		50.0
Max Q Clear Time (g_c+I1), s		2.8		6.6		4.6		6.1
Green Ext Time (p_c), s		1.1		3.5		1.0		3.5

Intersection Summary	
HCM 2010 Ctrl Delay	6.2
HCM 2010 LOS	A



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	213	947	8	305	1094	278	359	2083	343	449	1161	259
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	232	1029	9	332	1189	302	390	2264	373	488	1262	282
Adj No. of Lanes	2	3	1	2	3	0	2	3	0	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	196	993	309	308	921	234	459	1799	287	364	1928	600
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.06	0.21	0.21	0.10	0.25	0.25	0.14	0.44	0.44	0.11	0.41	0.41
Ln Grp Delay, s/veh	176.2	83.4	19.0	98.2	175.8	177.7	48.5	142.9	168.7	216.9	28.5	26.6
Ln Grp LOS	F	F	B	F	F	F	D	F	F	F	C	C
Approach Vol, veh/h		1270			1823			3027			2032	
Approach Delay, s/veh		99.9			162.2			138.6			73.4	
Approach LOS		F			F			F			E	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	5	6	7	8
Case No	4.0	2.0	3.0	2.0	2.0	3.0	2.0	4.0
Phs Duration (G+Y+Rc), s	54.0	17.0	28.0	15.0	20.4	50.6	11.0	32.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	50.0	13.0	24.0	11.0	21.0	42.0	7.0	28.0
Max Allow Headway (MAH), s	4.1	4.1	4.0	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	52.0	15.0	26.0	13.0	15.6	26.6	9.0	30.0
Green Ext Time (g_e), s	0.0	0.0	0.0	0.0	0.8	8.5	0.0	0.0
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prob of Max Out (p_x)	1.00	1.00	1.00	1.00	0.51	0.45	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt		1		3	5		7	
Mvmt Sat Flow, veh/h		3191		3191	3191		3191	

Through Movement Data								
Assigned Mvmt	2		4			6		8
Mvmt Sat Flow, veh/h	4102		4715			4715		3750

Right-Turn Movement Data								
Assigned Mvmt	12		14			16		18
Mvmt Sat Flow, veh/h	653		1468			1468		953

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	5	0	7	0
Lane Assignment		(Prot)		(Prot)	(Prot)		(Prot)	
Lanes in Grp	0	2	0	2	2	0	2	0

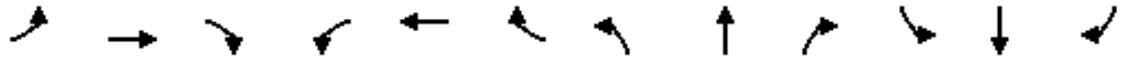
Grp Vol (v), veh/h	0	488	0	332	390	0	232	0
Grp Sat Flow (s), veh/h/ln	0	1596	0	1596	1596	0	1596	0
Q Serve Time (g_s), s	0.0	13.0	0.0	11.0	13.6	0.0	7.0	0.0
Cycle Q Clear Time (g_c), s	0.0	13.0	0.0	11.0	13.6	0.0	7.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	364	0	308	459	0	196	0
V/C Ratio (X)	0.00	1.34	0.00	1.08	0.85	0.00	1.18	0.00
Avail Cap (c_a), veh/h	0	364	0	308	588	0	196	0
Upstream Filter (I)	0.00	0.72	0.00	0.19	0.09	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	50.5	0.0	51.5	47.6	0.0	53.5	0.0
Incr Delay (d2), s/veh	0.0	166.4	0.0	46.7	0.9	0.0	122.7	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	216.9	0.0	98.2	48.5	0.0	176.2	0.0
1st-Term Q (Q1), veh/ln	0.0	5.7	0.0	4.8	6.0	0.0	3.1	0.0
2nd-Term Q (Q2), veh/ln	0.0	8.4	0.0	2.0	0.1	0.0	3.3	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	14.1	0.0	6.8	6.1	0.0	6.4	0.0
%ile Storage Ratio (RQ%)	0.00	0.04	0.00	0.01	0.01	0.00	0.03	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	31.0	0.0	6.0	0.0	0.0	9.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.3	0.0	0.3	0.0	0.0	0.3	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	0	6	0	8
Lane Assignment	T		T			T		T
Lanes in Grp	2	0	3	0	0	3	0	2
Grp Vol (v), veh/h	1717	0	1029	0	0	1262	0	997
Grp Sat Flow (s), veh/h/ln	1572	0	1572	0	0	1572	0	1572
Q Serve Time (g_s), s	50.0	0.0	24.0	0.0	0.0	24.6	0.0	28.0
Cycle Q Clear Time (g_c), s	50.0	0.0	24.0	0.0	0.0	24.6	0.0	28.0
Lane Grp Cap (c), veh/h	1379	0	993	0	0	1928	0	772
V/C Ratio (X)	1.25	0.00	1.04	0.00	0.00	0.65	0.00	1.29
Avail Cap (c_a), veh/h	1379	0	993	0	0	1928	0	772
Upstream Filter (I)	0.09	0.00	1.00	0.00	0.00	0.72	0.00	0.19
Uniform Delay (d1), s/veh	32.0	0.0	45.0	0.0	0.0	27.2	0.0	43.0
Incr Delay (d2), s/veh	110.9	0.0	38.4	0.0	0.0	1.3	0.0	132.8
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	142.9	0.0	83.4	0.0	0.0	28.5	0.0	175.8
1st-Term Q (Q1), veh/ln	21.6	0.0	10.4	0.0	0.0	10.6	0.0	12.1
2nd-Term Q (Q2), veh/ln	21.2	0.0	3.5	0.0	0.0	0.2	0.0	14.2

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	42.9	0.0	13.9	0.0	0.0	10.9	0.0	26.4
%ile Storage Ratio (RQ%)	0.05	0.00	0.07	0.00	0.00	0.03	0.00	0.05
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	84.5	0.0	9.1	0.0	0.0	0.0	0.0	56.1
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.3

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	0	16	0	18
Lane Assignment	T+R		R			R		T+R
Lanes in Grp	1	0	1	0	0	1	0	1
Grp Vol (v), veh/h	920	0	9	0	0	282	0	494
Grp Sat Flow (s), veh/h/ln	1612	0	1468	0	0	1468	0	1559
Q Serve Time (g_s), s	50.0	0.0	0.4	0.0	0.0	16.0	0.0	28.0
Cycle Q Clear Time (g_c), s	50.0	0.0	0.4	0.0	0.0	16.0	0.0	28.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.41	0.00	1.00	0.00	0.00	1.00	0.00	0.61
Lane Grp Cap (c), veh/h	707	0	309	0	0	600	0	383
V/C Ratio (X)	1.30	0.00	0.03	0.00	0.00	0.47	0.00	1.29
Avail Cap (c_a), veh/h	707	0	309	0	0	600	0	383
Upstream Filter (I)	0.09	0.00	1.00	0.00	0.00	0.72	0.00	0.19
Uniform Delay (d1), s/veh	32.0	0.0	19.0	0.0	0.0	24.7	0.0	43.0
Incr Delay (d2), s/veh	136.7	0.0	0.0	0.0	0.0	1.9	0.0	134.7
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	168.7	0.0	19.0	0.0	0.0	26.6	0.0	177.7
1st-Term Q (Q1), veh/ln	22.2	0.0	0.2	0.0	0.0	6.5	0.0	12.0
2nd-Term Q (Q2), veh/ln	26.9	0.0	0.0	0.0	0.0	0.3	0.0	14.3
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	49.0	0.0	0.2	0.0	0.0	6.8	0.0	26.4
%ile Storage Ratio (RQ%)	0.06	0.00	0.00	0.00	0.00	0.02	0.00	0.05
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	53.3	0.0	0.0	0.0	0.0	0.0	0.0	27.8
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3

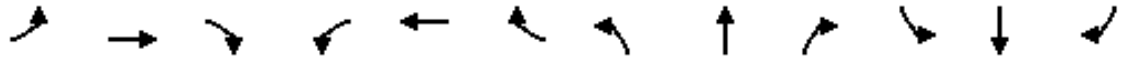
Intersection Summary	
HCM 2010 Ctrl Delay	121.6
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	213	947	8	305	1094	278	359	2083	343	449	1161	259
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	232	1029	9	332	1189	302	390	2264	373	488	1262	282
Adj No. of Lanes	2	3	1	2	3	0	2	3	0	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	196	993	309	308	921	234	459	1799	287	364	1928	600
Arrive On Green	0.06	0.21	0.21	0.10	0.25	0.25	0.14	0.44	0.44	0.11	0.41	0.41
Sat Flow, veh/h	3191	4715	1468	3191	3750	953	3191	4102	653	3191	4715	1468
Grp Volume(v), veh/h	232	1029	9	332	997	494	390	1717	920	488	1262	282
Grp Sat Flow(s),veh/h/ln	1596	1572	1468	1596	1572	1559	1596	1572	1612	1596	1572	1468
Q Serve(g_s), s	7.0	24.0	0.4	11.0	28.0	28.0	13.6	50.0	50.0	13.0	24.6	16.0
Cycle Q Clear(g_c), s	7.0	24.0	0.4	11.0	28.0	28.0	13.6	50.0	50.0	13.0	24.6	16.0
Prop In Lane	1.00		1.00	1.00		0.61	1.00		0.41	1.00		1.00
Lane Grp Cap(c), veh/h	196	993	309	308	772	383	459	1379	707	364	1928	600
V/C Ratio(X)	1.18	1.04	0.03	1.08	1.29	1.29	0.85	1.25	1.30	1.34	0.65	0.47
Avail Cap(c_a), veh/h	196	993	309	308	772	383	588	1379	707	364	1928	600
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.19	0.19	0.19	0.09	0.09	0.09	0.72	0.72	0.72
Uniform Delay (d), s/veh	53.5	45.0	19.0	51.5	43.0	43.0	47.6	32.0	32.0	50.5	27.2	24.7
Incr Delay (d2), s/veh	122.7	38.4	0.0	46.7	132.8	134.7	0.9	110.9	136.7	166.4	1.3	1.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.4	13.9	0.2	6.8	26.4	26.4	6.1	42.9	49.0	14.1	10.9	6.8
LnGrp Delay(d),s/veh	176.2	83.4	19.0	98.2	175.8	177.7	48.5	142.9	168.7	216.9	28.5	26.6
LnGrp LOS	F	F	B	F	F	F	D	F	F	F	C	C
Approach Vol, veh/h		1270			1823			3027			2032	
Approach Delay, s/veh		99.9			162.2			138.6			73.4	
Approach LOS		F			F			F			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	17.0	54.0	15.0	28.0	20.4	50.6	11.0	32.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	13.0	50.0	11.0	24.0	21.0	42.0	7.0	28.0
Max Q Clear Time (g_c+I1), s	15.0	52.0	13.0	26.0	15.6	26.6	9.0	30.0
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.8	8.5	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	121.6
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	4	1298	450	421	1293	10	396	4	766	0	1	1
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	4	1411	489	458	1405	11	430	4	833	0	1	1
Adj No. of Lanes	1	2	1	2	2	1	2	2	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	7	1267	567	392	1656	741	502	1036	464	112	913	284
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.00	0.39	0.39	0.12	0.50	0.50	0.16	0.32	0.32	0.00	0.19	0.19
Ln Grp Delay, s/veh	89.8	92.4	19.7	150.0	28.8	8.7	55.8	26.7	406.1	0.0	37.1	37.1
Ln Grp LOS	F	F	B	F	C	A	E	C	F		D	D
Approach Vol, veh/h		1904			1874			1267			2	
Approach Delay, s/veh		73.7			58.3			286.0			37.1	
Approach LOS		E			E			F			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	5	6	7	8
Case No	3.0	2.0	3.0	2.0	2.0	3.0	2.0	3.0
Phs Duration (G+Y+Rc), s	40.0	8.0	48.0	18.0	21.9	26.1	4.5	61.5
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	36.0	4.0	44.0	14.0	23.0	17.0	4.0	54.0
Max Allow Headway (MAH), s	4.3	0.0	4.1	4.0	4.1	4.2	4.1	4.0
Max Q Clear (g_c+I1), s	38.0	0.0	46.0	16.0	17.0	2.1	2.3	44.3
Green Ext Time (g_e), s	0.0	0.0	0.0	0.0	1.0	0.0	0.0	6.0
Prob of Phs Call (p_c)	1.00	0.00	1.00	1.00	1.00	1.00	0.12	1.00
Prob of Max Out (p_x)	1.00	0.00	1.00	1.00	0.40	0.00	1.00	0.64

Left-Turn Movement Data								
Assigned Mvmt		1		3	5		7	
Mvmt Sat Flow, veh/h		3191		3191	3191		1645	

Through Movement Data								
Assigned Mvmt	2		4			6		8
Mvmt Sat Flow, veh/h	3282		3282			4715		3282

Right-Turn Movement Data								
Assigned Mvmt	12		14			16		18
Mvmt Sat Flow, veh/h	1468		1468			1468		1468

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	5	0	7	0
Lane Assignment		(Prot)		(Prot)	(Prot)		(Prot)	
Lanes in Grp	0	2	0	2	2	0	1	0

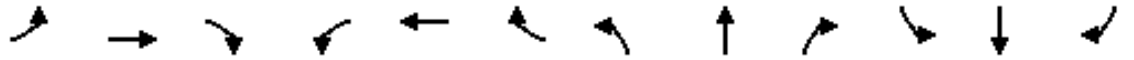
Grp Vol (v), veh/h	0	0	0	458	430	0	4	0
Grp Sat Flow (s), veh/h/ln	0	1596	0	1596	1596	0	1645	0
Q Serve Time (g_s), s	0.0	0.0	0.0	14.0	15.0	0.0	0.3	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	14.0	15.0	0.0	0.3	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	112	0	392	502	0	7	0
V/C Ratio (X)	0.00	0.00	0.00	1.17	0.86	0.00	0.58	0.00
Avail Cap (c_a), veh/h	0	112	0	392	644	0	58	0
Upstream Filter (I)	0.00	0.00	0.00	1.00	1.00	0.00	0.49	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	50.0	46.8	0.0	56.7	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	100.0	9.0	0.0	33.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	150.0	55.8	0.0	89.8	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	6.2	6.6	0.0	0.1	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	5.4	0.6	0.0	0.1	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	11.6	7.2	0.0	0.2	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	1.67	0.94	0.00	0.07	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	16.5	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	0	6	0	8
Lane Assignment	T		T			T		T
Lanes in Grp	2	0	2	0	0	3	0	2
Grp Vol (v), veh/h	4	0	1411	0	0	1	0	1405
Grp Sat Flow (s), veh/h/ln	1641	0	1641	0	0	1572	0	1641
Q Serve Time (g_s), s	0.1	0.0	44.0	0.0	0.0	0.0	0.0	42.3
Cycle Q Clear Time (g_c), s	0.1	0.0	44.0	0.0	0.0	0.0	0.0	42.3
Lane Grp Cap (c), veh/h	1036	0	1267	0	0	913	0	1656
V/C Ratio (X)	0.00	0.00	1.11	0.00	0.00	0.00	0.00	0.85
Avail Cap (c_a), veh/h	1036	0	1267	0	0	913	0	1656
Upstream Filter (I)	1.00	0.00	0.49	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	26.7	0.0	35.0	0.0	0.0	37.1	0.0	24.5
Incr Delay (d2), s/veh	0.0	0.0	57.4	0.0	0.0	0.0	0.0	4.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	26.7	0.0	92.4	0.0	0.0	37.1	0.0	28.8
1st-Term Q (Q1), veh/ln	0.0	0.0	19.9	0.0	0.0	0.0	0.0	19.1
2nd-Term Q (Q2), veh/ln	0.0	0.0	10.1	0.0	0.0	0.0	0.0	1.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	30.0	0.0	0.0	0.0	0.0	20.1
%ile Storage Ratio (RQ%)	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.83
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	36.1	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	0	16	0	18
Lane Assignment	R		R			R		R
Lanes in Grp	1	0	1	0	0	1	0	1
Grp Vol (v), veh/h	833	0	489	0	0	1	0	11
Grp Sat Flow (s), veh/h/ln	1468	0	1468	0	0	1468	0	1468
Q Serve Time (g_s), s	36.0	0.0	22.0	0.0	0.0	0.1	0.0	0.3
Cycle Q Clear Time (g_c), s	36.0	0.0	22.0	0.0	0.0	0.1	0.0	0.3
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	464	0	567	0	0	284	0	741
V/C Ratio (X)	1.80	0.00	0.86	0.00	0.00	0.00	0.00	0.01
Avail Cap (c_a), veh/h	464	0	567	0	0	284	0	741
Upstream Filter (I)	1.00	0.00	0.49	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	39.0	0.0	12.8	0.0	0.0	37.1	0.0	8.7
Incr Delay (d2), s/veh	367.1	0.0	7.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	406.1	0.0	19.7	0.0	0.0	37.1	0.0	8.7
1st-Term Q (Q1), veh/ln	14.6	0.0	8.8	0.0	0.0	0.0	0.0	0.1
2nd-Term Q (Q2), veh/ln	47.3	0.0	1.1	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	61.8	0.0	9.9	0.0	0.0	0.0	0.0	0.1
%ile Storage Ratio (RQ%)	4.98	0.00	1.17	0.00	0.00	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	92.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	121.3
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	4	1298	450	421	1293	10	396	4	766	0	1	1
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	4	1411	489	458	1405	11	430	4	833	0	1	1
Adj No. of Lanes	1	2	1	2	2	1	2	2	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	7	1267	567	392	1656	741	502	1036	464	112	913	284
Arrive On Green	0.00	0.39	0.39	0.12	0.50	0.50	0.16	0.32	0.32	0.00	0.19	0.19
Sat Flow, veh/h	1645	3282	1468	3191	3282	1468	3191	3282	1468	3191	4715	1468
Grp Volume(v), veh/h	4	1411	489	458	1405	11	430	4	833	0	1	1
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1596	1641	1468	1596	1641	1468	1596	1572	1468
Q Serve(g_s), s	0.3	44.0	22.0	14.0	42.3	0.3	15.0	0.1	36.0	0.0	0.0	0.1
Cycle Q Clear(g_c), s	0.3	44.0	22.0	14.0	42.3	0.3	15.0	0.1	36.0	0.0	0.0	0.1
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	7	1267	567	392	1656	741	502	1036	464	112	913	284
V/C Ratio(X)	0.58	1.11	0.86	1.17	0.85	0.01	0.86	0.00	1.80	0.00	0.00	0.00
Avail Cap(c_a), veh/h	58	1267	567	392	1656	741	644	1036	464	112	913	284
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.49	0.49	0.49	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00
Uniform Delay (d), s/veh	56.7	35.0	12.8	50.0	24.5	8.7	46.8	26.7	39.0	0.0	37.1	37.1
Incr Delay (d2), s/veh	33.1	57.4	7.0	100.0	4.4	0.0	9.0	0.0	367.1	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	30.0	9.9	11.6	20.1	0.1	7.2	0.0	61.8	0.0	0.0	0.0
LnGrp Delay(d),s/veh	89.8	92.4	19.7	150.0	28.8	8.7	55.8	26.7	406.1	0.0	37.1	37.1
LnGrp LOS	F	F	B	F	C	A	E	C	F		D	D
Approach Vol, veh/h		1904			1874			1267			2	
Approach Delay, s/veh		73.7			58.3			286.0			37.1	
Approach LOS		E			E			F			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.0	40.0	18.0	48.0	21.9	26.1	4.5	61.5
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	4.0	36.0	14.0	44.0	23.0	17.0	4.0	54.0
Max Q Clear Time (g_c+I1), s	0.0	38.0	16.0	46.0	17.0	2.1	2.3	44.3
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	1.0	0.0	0.0	6.0

Intersection Summary	
HCM 2010 Ctrl Delay	121.3
HCM 2010 LOS	F

Intersection	
Int Delay, s/veh	23.9

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	504	184	122	807	84	49
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	0	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	548	200	133	877	91	53

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	748	0	1790	648
Stage 1	-	-	-	-	648	-
Stage 2	-	-	-	-	1142	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	825	-	~ 85	456
Stage 1	-	-	-	-	506	-
Stage 2	-	-	-	-	293	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	825	-	~ 71	456
Mov Cap-2 Maneuver	-	-	-	-	~ 71	-
Stage 1	-	-	-	-	506	-
Stage 2	-	-	-	-	246	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.3	$ 304.9
HCM LOS			F

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	103	-	-	825	-
HCM Lane V/C Ratio	1.404	-	-	0.161	-
HCM Control Delay (s)	$ 304.9	-	-	10.2	-
HCM Lane LOS	F	-	-	B	-
HCM 95th %tile Q(veh)	10.4	-	-	0.6	-

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NWL	NWR
Lane Configurations										
Volume (veh/h)	0	263	207	24	1225	0	64	197	0	0
Number	7	4	14	3	8	18	1	16		
Initial Q, veh	0	0	0	0	0	0	0	0		
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00		
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Adj Sat Flow, veh/h/ln	0	1520	1900	1900	1520	0	1450	1900		
Adj Flow Rate, veh/h	0	286	225	26	1332	0	70	214		
Adj No. of Lanes	0	1	0	0	1	0	0	0		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92		
Percent Heavy Veh, %	0	25	25	25	25	0	0	0		
Opposing Right Turn Influence	No			Yes			Yes			
Cap, veh/h	0	525	413	0	1011	0	77	234		
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Prop Arrive On Green	0.00	0.67	0.67	0.00	0.67	0.00	0.25	0.25		
Ln Grp Delay, s/veh	0.0	0.0	10.2	0.0	164.7	0.0	57.6	0.0		
Ln Grp LOS			B		F		E			

Approach Vol, veh/h	511	1332	285	Timer:
Approach Delay, s/veh	10.2	164.7	57.6	Assigned Phs
Approach LOS	B	F	E	Case No
Phs Duration (G+Y+Rc), s	26.1	0.0	63.9	63.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0
Max Green (Gmax), s	26.0	5.0	47.0	56.0
Max Allow Headway (MAH), s	4.4	0.0	4.1	4.1
Max Q Clear (g_c+I1), s	21.7	0.0	19.1	61.9
Green Ext Time (g_e), s	0.4	0.0	13.4	0.0
Prob of Phs Call (p_c)	1.00	0.00	1.00	1.00
Prob of Max Out (p_x)	1.00	0.00	0.00	0.00

Left-Turn Movement Data				
Assigned Mvmt	1	3	7	
Mvmt Sat Flow, veh/h	311	0	0	

Through Movement Data				
Assigned Mvmt	6		4	8
Mvmt Sat Flow, veh/h	4		789	1520

Right-Turn Movement Data				
Assigned Mvmt	16		14	18
Mvmt Sat Flow, veh/h	951		621	0

Left Lane Group Data								
Assigned Mvmt	1	0	3	7	0	0	0	0
Lane Assignment	L+T+R							
Lanes in Grp	1	0	0	0	0	0	0	0
Grp Vol (v), veh/h	285	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	1267	0	0	0	0	0	0	0
Q Serve Time (g_s), s	19.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cycle Q Clear Time (g_c), s	19.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	59.9	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	312	0	0	0	0	0	0	0
V/C Ratio (X)	0.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	366	0	0	0	0	0	0	0
Upstream Filter (I)	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	24.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	57.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00
%ile Back of Q (50%), veh/ln	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	6	0	0	4	0	0	0	8
Lane Assignment								T
Lanes in Grp	0	0	0	0	0	0	0	1
Grp Vol (v), veh/h	0	0	0	0	0	0	0	1332
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	1520
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.9
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.9
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	1011
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	1011
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.96
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.1
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	149.6
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	164.7
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.7
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.7

%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.3
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Right Lane Group Data								
Assigned Mvmt	16	0	0	14	0	0	0	18
Lane Assignment				T+R				
Lanes in Grp	0	0	0	1	0	0	0	0
Grp Vol (v), veh/h	0	0	0	511	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1410	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	17.1	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	17.1	0.0	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.75	0.00	0.00	0.44	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	0	0	938	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	938	0	0	0	0
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	7.9	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	10.2	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	6.5	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	7.1	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	113.3
HCM 2010 LOS	F

Notes

User approved volume balancing among the lanes for turning movement.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NWL	NWR
Lane Configurations										
Volume (veh/h)	0	263	207	24	1225	0	64	197	0	0
Number	7	4	14	3	8	18	1	16		
Initial Q (Qb), veh	0	0	0	0	0	0	0	0		
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00		
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Adj Sat Flow, veh/h/ln	0	1520	1900	1900	1520	0	1450	1900		
Adj Flow Rate, veh/h	0	286	225	26	1332	0	70	214		
Adj No. of Lanes	0	1	0	0	1	0	0	0		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92		
Percent Heavy Veh, %	0	25	25	25	25	0	0	0		
Cap, veh/h	0	525	413	0	1011	0	77	234		
Arrive On Green	0.00	0.67	0.67	0.00	0.67	0.00	0.25	0.25		
Sat Flow, veh/h	0	789	621	0	1520	0	311	951		
Grp Volume(v), veh/h	0	0	511	0	1332	0	285	0		
Grp Sat Flow(s),veh/h/ln	0	0	1410	0	1520	0	1267	0		
Q Serve(g_s), s	0.0	0.0	17.1	0.0	59.9	0.0	19.7	0.0		
Cycle Q Clear(g_c), s	0.0	0.0	17.1	0.0	59.9	0.0	19.7	0.0		
Prop In Lane	0.00		0.44	0.00		0.00	0.25	0.75		
Lane Grp Cap(c), veh/h	0	0	938	0	1011	0	312	0		
V/C Ratio(X)	0.00	0.00	0.54	0.00	1.32	0.00	0.91	0.00		
Avail Cap(c_a), veh/h	0	0	938	0	1011	0	366	0		
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Upstream Filter(I)	0.00	0.00	1.00	0.00	0.96	0.00	1.00	0.00		
Uniform Delay (d), s/veh	0.0	0.0	7.9	0.0	15.1	0.0	33.0	0.0		
Incr Delay (d2), s/veh	0.0	0.0	2.3	0.0	149.6	0.0	24.6	0.0		
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
%ile BackOfQ(50%),veh/ln	0.0	0.0	7.1	0.0	66.7	0.0	9.0	0.0		
LnGrp Delay(d),s/veh	0.0	0.0	10.2	0.0	164.7	0.0	57.6	0.0		
LnGrp LOS			B		F		E			
Approach Vol, veh/h		511			1332		285			
Approach Delay, s/veh		10.2			164.7		57.6			
Approach LOS		B			F		E			

Timer	1	2	3	4	5	6	7	8
Assigned Phs			3	4		6		8
Phs Duration (G+Y+Rc), s			0.0	63.9		26.1		63.9
Change Period (Y+Rc), s			4.0	4.0		4.0		4.0
Max Green Setting (Gmax), s			5.0	47.0		26.0		56.0
Max Q Clear Time (g_c+I1), s			0.0	19.1		21.7		61.9
Green Ext Time (p_c), s			0.0	13.4		0.4		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	113.3
HCM 2010 LOS	F

Notes

User approved volume balancing among the lanes for turning movement.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBR	SEL	SER
Lane Configurations										
Volume (veh/h)	4	785	0	0	345	248	52	127	0	0
Number	7	4	14	3	8	18	5	12		
Initial Q, veh	0	0	0	0	0	0	0	0		
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00		
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Adj Sat Flow, veh/h/ln	1520	1520	0	0	1520	1520	1900	1900		
Adj Flow Rate, veh/h	4	853	0	0	375	270	0	138		
Adj No. of Lanes	1	1	0	0	1	1	0	0		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92		
Percent Heavy Veh, %	25	25	0	0	25	25	0	0		
Opposing Right Turn Influence	Yes			No			Yes			
Cap, veh/h	90	1125	0	0	963	818	0	156		
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Prop Arrive On Green	0.06	0.74	0.00	0.00	0.63	0.63	0.00	0.17		
Ln Grp Delay, s/veh	39.9	11.2	0.0	0.0	9.2	8.7	0.0	64.2		
Ln Grp LOS	D	B			A	A		E		

Approach Vol, veh/h	857	645	195	Timer:
Approach Delay, s/veh	11.3	9.0	64.2	Assigned Phs
Approach LOS	B	A	E	Case No

Phs Duration (G+Y+Rc), s	19.4	70.6	61.0	9.6
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0
Max Green (Gmax), s	17.0	65.0	57.0	4.0
Max Allow Headway (MAH), s	4.3	4.1	4.2	4.1
Max Q Clear (g_c+I1), s	15.3	31.9	12.8	2.2
Green Ext Time (g_e), s	0.1	4.2	2.7	0.8
Prob of Phs Call (p_c)	1.00	1.00	1.00	0.10
Prob of Max Out (p_x)	1.00	0.00	0.00	1.00

Left-Turn Movement Data				
Assigned Mvmt	5		3	7
Mvmt Sat Flow, veh/h	0		0	1448

Through Movement Data				
Assigned Mvmt	2	4	8	
Mvmt Sat Flow, veh/h	377	1520	1520	

Right-Turn Movement Data				
Assigned Mvmt	12	14	18	
Mvmt Sat Flow, veh/h	912	0	1292	

Left Lane Group Data								
Assigned Mvmt	0	5	0	0	0	0	3	7
Lane Assignment								(Prot)
Lanes in Grp	0	0	0	0	0	0	0	1
Grp Vol (v), veh/h	0	0	0	0	0	0	0	4
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	1448
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2

Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	57.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	90
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	90
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.88
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.7
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.9
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	0	8	0
Lane Assignment				T			T	
Lanes in Grp	0	0	0	1	0	0	1	0
Grp Vol (v), veh/h	0	0	0	853	0	0	375	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1520	0	0	1520	0
Q Serve Time (g_s), s	0.0	0.0	0.0	29.9	0.0	0.0	10.8	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	29.9	0.0	0.0	10.8	0.0
Lane Grp Cap (c), veh/h	0	0	0	1125	0	0	963	0
V/C Ratio (X)	0.00	0.00	0.00	0.76	0.00	0.00	0.39	0.00
Avail Cap (c_a), veh/h	0	0	0	1125	0	0	963	0
Upstream Filter (I)	0.00	0.00	0.00	0.88	0.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	6.9	0.0	0.0	8.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	4.3	0.0	0.0	1.2	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	11.2	0.0	0.0	9.2	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	12.3	0.0	0.0	4.5	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	1.3	0.0	0.0	0.3	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	13.6	0.0	0.0	4.8	0.0

%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.12	0.00	0.00	0.01	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	0	18	0
Lane Assignment		T+R					R	
Lanes in Grp	0	1	0	0	0	0	1	0
Grp Vol (v), veh/h	0	195	0	0	0	0	270	0
Grp Sat Flow (s), veh/h/ln	0	1289	0	0	0	0	1292	0
Q Serve Time (g_s), s	0.0	13.3	0.0	0.0	0.0	0.0	8.7	0.0
Cycle Q Clear Time (g_c), s	0.0	13.3	0.0	0.0	0.0	0.0	8.7	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.71	0.00	0.00	0.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	221	0	0	0	0	818	0
V/C Ratio (X)	0.00	0.88	0.00	0.00	0.00	0.00	0.33	0.00
Avail Cap (c_a), veh/h	0	244	0	0	0	0	818	0
Upstream Filter (I)	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	36.4	0.0	0.0	0.0	0.0	7.6	0.0
Incr Delay (d2), s/veh	0.0	27.8	0.0	0.0	0.0	0.0	1.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	64.2	0.0	0.0	0.0	0.0	8.7	0.0
1st-Term Q (Q1), veh/ln	0.0	4.7	0.0	0.0	0.0	0.0	3.1	0.0
2nd-Term Q (Q2), veh/ln	0.0	1.7	0.0	0.0	0.0	0.0	0.2	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	6.4	0.0	0.0	0.0	0.0	3.3	0.0
%ile Storage Ratio (RQ%)	0.00	0.18	0.00	0.00	0.00	0.00	0.18	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	16.5
HCM 2010 LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBR	SEL	SER
Lane Configurations										
Volume (veh/h)	4	785	0	0	345	248	52	127	0	0
Number	7	4	14	3	8	18	5	12		
Initial Q (Qb), veh	0	0	0	0	0	0	0	0		
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00		
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Adj Sat Flow, veh/h/ln	1520	1520	0	0	1520	1520	1900	1900		
Adj Flow Rate, veh/h	4	853	0	0	375	270	0	138		
Adj No. of Lanes	1	1	0	0	1	1	0	0		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92		
Percent Heavy Veh, %	25	25	0	0	25	25	0	0		
Cap, veh/h	90	1125	0	0	963	818	0	156		
Arrive On Green	0.06	0.74	0.00	0.00	0.63	0.63	0.00	0.17		
Sat Flow, veh/h	1448	1520	0	0	1520	1292	0	912		
Grp Volume(v), veh/h	4	853	0	0	375	270	0	195		
Grp Sat Flow(s),veh/h/ln	1448	1520	0	0	1520	1292	0	1289		
Q Serve(g_s), s	0.2	29.9	0.0	0.0	10.8	8.7	0.0	13.3		
Cycle Q Clear(g_c), s	0.2	29.9	0.0	0.0	10.8	8.7	0.0	13.3		
Prop In Lane	1.00		0.00	0.00		1.00	0.00	0.71		
Lane Grp Cap(c), veh/h	90	1125	0	0	963	818	0	221		
V/C Ratio(X)	0.04	0.76	0.00	0.00	0.39	0.33	0.00	0.88		
Avail Cap(c_a), veh/h	90	1125	0	0	963	818	0	244		
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Upstream Filter(I)	0.88	0.88	0.00	0.00	1.00	1.00	0.00	1.00		
Uniform Delay (d), s/veh	39.7	6.9	0.0	0.0	8.0	7.6	0.0	36.4		
Incr Delay (d2), s/veh	0.2	4.3	0.0	0.0	1.2	1.1	0.0	27.8		
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
%ile BackOfQ(50%),veh/ln	0.1	13.6	0.0	0.0	4.8	3.3	0.0	6.4		
LnGrp Delay(d),s/veh	39.9	11.2	0.0	0.0	9.2	8.7	0.0	64.2		
LnGrp LOS	D	B			A	A		E		
Approach Vol, veh/h		857			645		195			
Approach Delay, s/veh		11.3			9.0		64.2			
Approach LOS		B			A		E			

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4			7	8
Phs Duration (G+Y+Rc), s		19.4		70.6			9.6	61.0
Change Period (Y+Rc), s		4.0		4.0			4.0	4.0
Max Green Setting (Gmax), s		17.0		65.0			4.0	57.0
Max Q Clear Time (g_c+I1), s		15.3		31.9			2.2	12.8
Green Ext Time (p_c), s		0.1		4.2			0.8	2.7

Intersection Summary	
HCM 2010 Ctrl Delay	16.5
HCM 2010 LOS	B

Intersection	
Int Delay, s/veh	1.4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	123	8	66	323	11	7
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	24	24	24	24	10	10
Mvmt Flow	134	9	72	351	12	8

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	142	0	633	138
Stage 1	-	-	-	-	138	-
Stage 2	-	-	-	-	495	-
Critical Hdwy	-	-	4.34	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.416	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	1316	-	431	889
Stage 1	-	-	-	-	869	-
Stage 2	-	-	-	-	596	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1316	-	402	889
Mov Cap-2 Maneuver	-	-	-	-	402	-
Stage 1	-	-	-	-	869	-
Stage 2	-	-	-	-	555	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.3	12.3
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	511	-	-	1316	-
HCM Lane V/C Ratio	0.038	-	-	0.055	-
HCM Control Delay (s)	12.3	-	-	7.9	0
HCM Lane LOS	B	-	-	A	A
HCM 95th %tile Q(veh)	0.1	-	-	0.2	-

Intersection	
Int Delay, s/veh	45.6

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	560	113	105	15	28	73
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	8	8	8	8
Mvmt Flow	609	123	114	16	30	79

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	262	122	0	0	130	0
Stage 1	122	-	-	-	-	-
Stage 2	140	-	-	-	-	-
Critical Hdwy	6.5	6.3	-	-	4.18	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	-	-	2.272	-
Pot Cap-1 Maneuver	710	908	-	-	1419	-
Stage 1	884	-	-	-	-	-
Stage 2	868	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	694	908	-	-	1419	-
Mov Cap-2 Maneuver	694	-	-	-	-	-
Stage 1	884	-	-	-	-	-
Stage 2	849	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	60.3	0	2.1
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	723	1419	-
HCM Lane V/C Ratio	-	-	1.012	0.021	-
HCM Control Delay (s)	-	-	60.3	7.6	0
HCM Lane LOS	-	-	F	A	A
HCM 95th %tile Q(veh)	-	-	17.1	0.1	-

Intersection	
Intersection Delay, s/veh	45.1
Intersection LOS	E

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	1	19	0	0	208	590	26	0	0	30	4
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	8	8	8	10	8	8	8	10	10	10	10
Mvmt Flow	0	1	21	0	0	226	641	28	0	0	33	4
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	1	1	1
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	1	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	1	1
HCM Control Delay	8.9	54.2	9.7
HCM LOS	A	F	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	5%	25%	26%
Vol Thru, %	88%	95%	72%	34%
Vol Right, %	12%	0%	3%	40%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	34	20	824	165
LT Vol	0	1	208	43
Through Vol	30	19	590	56
RT Vol	4	0	26	66
Lane Flow Rate	37	22	896	179
Geometry Grp	1	1	1	1
Degree of Util (X)	0.064	0.034	1	0.293
Departure Headway (Hd)	6.268	5.615	4.741	5.881
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	572	635	761	613
Service Time	4.297	3.671	2.79	3.891
HCM Lane V/C Ratio	0.065	0.035	1.177	0.292
HCM Control Delay	9.7	8.9	54.2	11.3
HCM Lane LOS	A	A	F	B
HCM 95th-tile Q	0.2	0.1	16.8	1.2

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	43	56	66
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10
Mvmt Flow	0	47	61	72
Number of Lanes	0	0	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	1
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	11.3
HCM LOS	B

Lane

Intersection	
Int Delay, s/veh	0.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NWL	NWR
Vol, veh/h	0	11	8	0	817	0	15	6	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	None	-	-
Storage Length	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	0	-	0	-
Grade, %	-	0	-	-	0	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	24	24	10	10
Mvmt Flow	0	12	9	0	888	0	16	7	0	0

Major/Minor	Major1			Major2			Minor2			
Conflicting Flow All	888	0	0	21	0	0	904	888		
Stage 1	-	-	-	-	-	-	888	-		
Stage 2	-	-	-	-	-	-	16	-		
Critical Hdwy	4.2	-	-	4.2	-	-	6.64	6.44		
Critical Hdwy Stg 1	-	-	-	-	-	-	5.64	-		
Critical Hdwy Stg 2	-	-	-	-	-	-	5.64	-		
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.716	3.516		
Pot Cap-1 Maneuver	730	-	-	1544	-	-	281	313		
Stage 1	-	-	-	-	-	-	368	-		
Stage 2	-	-	-	-	-	-	953	-		
Platoon blocked, %		-	-		-	-				
Mov Cap-1 Maneuver	730	-	-	1544	-	-	281	313		
Mov Cap-2 Maneuver	-	-	-	-	-	-	281	-		
Stage 1	-	-	-	-	-	-	368	-		
Stage 2	-	-	-	-	-	-	953	-		

Approach	EB	WB	SB
HCM Control Delay, s	0	0	17.4
HCM LOS			C

Minor Lane/Major Mvmt	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	730	-	-	1544	-	-	313
HCM Lane V/C Ratio	-	-	-	-	-	-	0.073
HCM Control Delay (s)	0	-	-	0	-	-	17.4
HCM Lane LOS	A	-	-	A	-	-	C
HCM 95th %tile Q(veh)	0	-	-	0	-	-	0.2

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SEL	SET	SER	NWL	NWT	NWR
Vol, veh/h	1	23	0	0	448	71	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	24	24	24	24	24	24
Mvmt Flow	1	25	0	0	487	77	0	0	0	0	0	0

Major/Minor	Major1			Major2			Minor1		
Conflicting Flow All	564	0	0	25	0	0	553	591	25
Stage 1	-	-	-	-	-	-	27	27	-
Stage 2	-	-	-	-	-	-	526	564	-
Critical Hdwy	4.2	-	-	4.2	-	-	6.64	6.74	6.44
Critical Hdwy Stg 1	-	-	-	-	-	-	5.64	5.74	-
Critical Hdwy Stg 2	-	-	-	-	-	-	5.64	5.74	-
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.716	4.216	3.516
Pot Cap-1 Maneuver	969	-	-	1539	-	-	458	391	991
Stage 1	-	-	-	-	-	-	942	831	-
Stage 2	-	-	-	-	-	-	551	475	-
Platoon blocked, %		-	-		-	-			
Mov Cap-1 Maneuver	969	-	-	1539	-	-	458	0	991
Mov Cap-2 Maneuver	-	-	-	-	-	-	458	0	-
Stage 1	-	-	-	-	-	-	941	0	-
Stage 2	-	-	-	-	-	-	551	0	-

Approach	EB	WB	NW
HCM Control Delay, s	0.4	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NWLn1	EBL	EBT	EBR	WBL	WBT	WBR
Capacity (veh/h)	-	969	-	-	1539	-	-
HCM Lane V/C Ratio	-	0.001	-	-	-	-	-
HCM Control Delay (s)	0	8.7	0	-	0	-	-
HCM Lane LOS	A	A	A	-	A	-	-
HCM 95th %tile Q(veh)	-	0	-	-	0	-	-

Intersection	
Int Delay, s/veh	5.1

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	0	0	238	32	109	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	0	259	35	118	0

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	670	118	118	0	-	0
Stage 1	118	-	-	-	-	-
Stage 2	552	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	410	913	1422	-	-	-
Stage 1	888	-	-	-	-	-
Stage 2	561	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	334	913	1422	-	-	-
Mov Cap-2 Maneuver	334	-	-	-	-	-
Stage 1	888	-	-	-	-	-
Stage 2	457	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	0	7.1	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1422	-	-	-	-
HCM Lane V/C Ratio	0.182	-	-	-	-
HCM Control Delay (s)	8.1	0	0	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0.7	-	-	-	-

Intersection	
Int Delay, s/veh	0

Movement	NBL	NBT	SBT	SBR	SEL	SER
Vol, veh/h	0	63	104	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	68	113	0	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	113	0	-	0	181	113
Stage 1	-	-	-	-	113	-
Stage 2	-	-	-	-	68	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1428	-	-	-	790	919
Stage 1	-	-	-	-	892	-
Stage 2	-	-	-	-	935	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1428	-	-	-	790	919
Mov Cap-2 Maneuver	-	-	-	-	790	-
Stage 1	-	-	-	-	892	-
Stage 2	-	-	-	-	935	-

Approach	NB	SB	SE
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBL	NBT	SELn1	SBT	SBR
Capacity (veh/h)	1428	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	0	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	-	-	-

Intersection	
Int Delay, s/veh	1.8

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	54	23	768	142	4	130
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	8	8	8	8
Mvmt Flow	59	25	835	154	4	141

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1062	912	0	0	989	0
Stage 1	912	-	-	-	-	-
Stage 2	150	-	-	-	-	-
Critical Hdwy	6.5	6.3	-	-	4.18	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	-	-	2.272	-
Pot Cap-1 Maneuver	239	321	-	-	676	-
Stage 1	379	-	-	-	-	-
Stage 2	859	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	238	321	-	-	676	-
Mov Cap-2 Maneuver	238	-	-	-	-	-
Stage 1	379	-	-	-	-	-
Stage 2	854	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	25.5	0	0.3
HCM LOS	D		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	258	676	-
HCM Lane V/C Ratio	-	-	0.324	0.006	-
HCM Control Delay (s)	-	-	25.5	10.4	0
HCM Lane LOS	-	-	D	B	A
HCM 95th %tile Q(veh)	-	-	1.4	0	-

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NWL	NWR
Vol, veh/h	0	40	1	3	309	191	24	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	None	-	-
Storage Length	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	0	-	0	-
Grade, %	-	0	-	-	0	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	24	24	24	24
Mvmt Flow	0	43	1	3	336	208	26	0	0	0

Major/Minor	Major1			Major2			Minor2			
Conflicting Flow All	543	0	0	45	0	0	490	440		
Stage 1	-	-	-	-	-	-	446	-		
Stage 2	-	-	-	-	-	-	44	-		
Critical Hdwy	4.2	-	-	4.2	-	-	6.64	6.44		
Critical Hdwy Stg 1	-	-	-	-	-	-	5.64	-		
Critical Hdwy Stg 2	-	-	-	-	-	-	5.64	-		
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.716	3.516		
Pot Cap-1 Maneuver	987	-	-	1513	-	-	500	573		
Stage 1	-	-	-	-	-	-	601	-		
Stage 2	-	-	-	-	-	-	925	-		
Platoon blocked, %		-	-		-	-				
Mov Cap-1 Maneuver	987	-	-	1513	-	-	499	573		
Mov Cap-2 Maneuver	-	-	-	-	-	-	499	-		
Stage 1	-	-	-	-	-	-	599	-		
Stage 2	-	-	-	-	-	-	925	-		

Approach	EB	WB	SB
HCM Control Delay, s	0	0	
HCM LOS			-

Minor Lane/Major Mvmt	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	987	-	-	1513	-	-	-
HCM Lane V/C Ratio	-	-	-	0.002	-	-	-
HCM Control Delay (s)	0	-	-	7.4	0	-	-
HCM Lane LOS	A	-	-	A	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0	-	-	-

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NWL	NWR
Vol, veh/h	97	0	0	676	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	24	24
Mvmt Flow	105	0	0	735	0	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	105	0	840	105
Stage 1	-	-	-	-	105	-
Stage 2	-	-	-	-	735	-
Critical Hdwy	-	-	4.2	-	6.64	6.44
Critical Hdwy Stg 1	-	-	-	-	5.64	-
Critical Hdwy Stg 2	-	-	-	-	5.64	-
Follow-up Hdwy	-	-	2.29	-	3.716	3.516
Pot Cap-1 Maneuver	-	-	1438	-	308	893
Stage 1	-	-	-	-	867	-
Stage 2	-	-	-	-	437	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1438	-	308	893
Mov Cap-2 Maneuver	-	-	-	-	308	-
Stage 1	-	-	-	-	867	-
Stage 2	-	-	-	-	437	-

Approach	EB	WB	NW
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NWLn1	NWLn2	EBT	EBR	WBL	WBT
Capacity (veh/h)	-	-	-	-	1438	-
HCM Lane V/C Ratio	-	-	-	-	-	-
HCM Control Delay (s)	0	0	-	-	0	-
HCM Lane LOS	A	A	-	-	A	-
HCM 95th %tile Q(veh)	-	-	-	-	0	-

Intersection	
Int Delay, s/veh	0.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NEL	NER
Vol, veh/h	0	92	1	48	522	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	0	-	0	-
Grade, %	-	0	-	-	0	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	25	25	25	25	25	25	10	10	10	10
Mvmt Flow	0	100	1	52	567	0	0	0	0	0

Major/Minor	Major1			Major2			Minor2		Minor1	
Conflicting Flow All	567	0	0	101	0	0	773	567	773	101
Stage 1	-	-	-	-	-	-	672	-	101	-
Stage 2	-	-	-	-	-	-	101	-	672	-
Critical Hdwy	4.35	-	-	4.35	-	-	7.2	6.3	7.2	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	6.2	-	6.2	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.2	-	6.2	-
Follow-up Hdwy	2.425	-	-	2.425	-	-	3.59	3.39	3.59	3.39
Pot Cap-1 Maneuver	900	-	-	1359	-	-	307	508	307	933
Stage 1	-	-	-	-	-	-	433	-	886	-
Stage 2	-	-	-	-	-	-	886	-	433	-
Platoon blocked, %		-	-		-	-				
Mov Cap-1 Maneuver	900	-	-	1359	-	-	294	508	294	933
Mov Cap-2 Maneuver	-	-	-	-	-	-	294	-	294	-
Stage 1	-	-	-	-	-	-	433	-	886	-
Stage 2	-	-	-	-	-	-	886	-	409	-

Approach	EB	WB	SB	NE
HCM Control Delay, s	0	0.7	0	0
HCM LOS			A	A

Minor Lane/Major Mvmt	NELn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	-	900	-	-	1359	-	-	-
HCM Lane V/C Ratio	-	-	-	-	0.038	-	-	-
HCM Control Delay (s)	0	0	-	-	7.8	0	-	0
HCM Lane LOS	A	A	-	-	A	A	-	A
HCM 95th %tile Q(veh)	-	0	-	-	0.1	-	-	-

Intersection	
Intersection Delay, s/veh	0
Intersection LOS	-

Movement	NBU	NBT	NBR	SBU	SBL	SBT	SWU	SWL	SWR
Vol, veh/h	0	0	0	0	0	0	0	0	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	8	8	10	8	8	10	10	10
Mvmt Flow	0	0	0	0	0	0	0	0	0
Number of Lanes	0	1	0	0	0	1	0	0	1

Approach	NB	SB	SW
Opposing Approach	SB	NB	
Opposing Lanes	1	1	0
Conflicting Approach Left		SW	NB
Conflicting Lanes Left	0	1	1
Conflicting Approach Right	SW		SB
Conflicting Lanes Right	1	0	1
HCM Control Delay	0	0	0
HCM LOS	-	-	-

Lane	NBLn1	SBLn1	SWLn1
Vol Left, %	0%	0%	0%
Vol Thru, %	100%	100%	100%
Vol Right, %	0%	0%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	0	0	0
LT Vol	0	0	0
Through Vol	0	0	0
RT Vol	0	0	0
Lane Flow Rate	0	0	0
Geometry Grp	1	1	1
Degree of Util (X)	0	0	0
Departure Headway (Hd)	4.036	4.036	4.07
Convergence, Y/N	Yes	Yes	Yes
Cap	0	0	0
Service Time	2.036	2.036	2.07
HCM Lane V/C Ratio	0	0	0
HCM Control Delay	7	7	7.1
HCM Lane LOS	N	N	N
HCM 95th-tile Q	0	0	0

Intersection	
Int Delay, s/veh	-

Movement	NBT	NBR	SBL	SBT	SWL	SWR
Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	8	8	8	8	10	10
Mvmt Flow	0	0	0	0	0	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	0	0	0	0
Stage 1	-	-	-	-	0	-
Stage 2	-	-	-	-	0	-
Critical Hdwy	-	-	4.18	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.272	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	NB	SB	SW
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBT	NBR	SBL	SBT	SWLn1
Capacity (veh/h)	-	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	-	-	0	-	0
HCM Lane LOS	-	-	A	-	A
HCM 95th %tile Q(veh)	-	-	-	-	-

Intersection	
Int Delay, s/veh	1.3

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	123	8	66	323	11	7
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	134	9	72	351	12	8

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	142	0	633	138
Stage 1	-	-	-	-	138	-
Stage 2	-	-	-	-	495	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	1393	-	431	889
Stage 1	-	-	-	-	869	-
Stage 2	-	-	-	-	596	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1393	-	403	889
Mov Cap-2 Maneuver	-	-	-	-	403	-
Stage 1	-	-	-	-	869	-
Stage 2	-	-	-	-	558	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.3	12.2
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	NBLn2	EBT	EBR	WBL	WBT
Capacity (veh/h)	403	889	-	-	1393	-
HCM Lane V/C Ratio	0.03	0.009	-	-	0.051	-
HCM Control Delay (s)	14.2	9.1	-	-	7.7	0
HCM Lane LOS	B	A	-	-	A	A
HCM 95th %tile Q(veh)	0.1	0	-	-	0.2	-

Intersection	
Int Delay, s/veh	5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	5	11	4	38	81	7	15	63	12	3	93	42
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	5	12	4	41	88	8	16	68	13	3	101	46

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	285	244	124	247	261	75	147	0	0	82	0	0
Stage 1	130	130	-	108	108	-	-	-	-	-	-	-
Stage 2	155	114	-	139	153	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.2	6.6	6.3	4.2	-	-	4.2	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.59	4.09	3.39	2.29	-	-	2.29	-	-
Pot Cap-1 Maneuver	652	644	906	690	630	965	1387	-	-	1466	-	-
Stage 1	855	773	-	878	791	-	-	-	-	-	-	-
Stage 2	829	786	-	845	756	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	571	635	906	670	621	965	1387	-	-	1466	-	-
Mov Cap-2 Maneuver	571	635	-	670	621	-	-	-	-	-	-	-
Stage 1	845	771	-	867	782	-	-	-	-	-	-	-
Stage 2	721	777	-	826	754	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	10.7	12	1.3	0.2
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1387	-	-	656	648	1466	-	-
HCM Lane V/C Ratio	0.012	-	-	0.033	0.211	0.002	-	-
HCM Control Delay (s)	7.6	0	-	10.7	12	7.5	0	-
HCM Lane LOS	A	A	-	B	B	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0.8	0	-	-

Intersection	
Int Delay, s/veh	0.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	6	5	4	1	6	1	12	245	3	1	268	12
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	362	-	-	401	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	22	22	22	22	22	22	25	25	25	25	25	25
Mvmt Flow	7	5	4	1	7	1	13	266	3	1	291	13

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	598	596	298	599	601	268	304	0	0	270	0	0
Stage 1	300	300	-	294	294	-	-	-	-	-	-	-
Stage 2	298	296	-	305	307	-	-	-	-	-	-	-
Critical Hdwy	7.32	6.72	6.42	7.32	6.72	6.42	4.35	-	-	4.35	-	-
Critical Hdwy Stg 1	6.32	5.72	-	6.32	5.72	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.32	5.72	-	6.32	5.72	-	-	-	-	-	-	-
Follow-up Hdwy	3.698	4.198	3.498	3.698	4.198	3.498	2.425	-	-	2.425	-	-
Pot Cap-1 Maneuver	386	391	697	386	388	725	1137	-	-	1172	-	-
Stage 1	668	631	-	673	635	-	-	-	-	-	-	-
Stage 2	670	634	-	664	626	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	377	386	697	376	383	725	1137	-	-	1172	-	-
Mov Cap-2 Maneuver	377	386	-	376	383	-	-	-	-	-	-	-
Stage 1	660	630	-	665	628	-	-	-	-	-	-	-
Stage 2	654	627	-	654	625	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	13.6	14.1	0.4	0
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1137	-	-	433	406	1172	-	-
HCM Lane V/C Ratio	0.011	-	-	0.038	0.021	0.001	-	-
HCM Control Delay (s)	8.2	-	-	13.6	14.1	8.1	-	-
HCM Lane LOS	A	-	-	B	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0.1	0	-	-

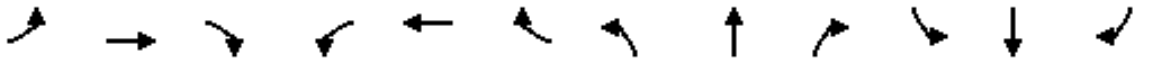
Intersection	
Int Delay, s/veh	0.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	0	107	1	8	588	5	12	6	0	6	4	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	12	12	12	12	12	12	10	10	10	10	10	10
Mvmt Flow	0	116	1	9	639	5	13	7	0	7	4	0

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	645	0	0	117	0	0	778	779	117	779	776	642
Stage 1	-	-	-	-	-	-	117	117	-	659	659	-
Stage 2	-	-	-	-	-	-	661	662	-	120	117	-
Critical Hdwy	4.22	-	-	4.22	-	-	7.2	6.6	6.3	7.2	6.6	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Follow-up Hdwy	2.308	-	-	2.308	-	-	3.59	4.09	3.39	3.59	4.09	3.39
Pot Cap-1 Maneuver	894	-	-	1412	-	-	304	318	914	304	319	460
Stage 1	-	-	-	-	-	-	869	784	-	440	449	-
Stage 2	-	-	-	-	-	-	439	447	-	865	784	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	894	-	-	1412	-	-	299	315	914	297	316	460
Mov Cap-2 Maneuver	-	-	-	-	-	-	299	315	-	297	316	-
Stage 1	-	-	-	-	-	-	869	784	-	440	445	-
Stage 2	-	-	-	-	-	-	430	443	-	858	784	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0	0.1	17.7	17.3
HCM LOS			C	C

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	304	894	-	-	1412	-	-	304
HCM Lane V/C Ratio	0.064	-	-	-	0.006	-	-	0.036
HCM Control Delay (s)	17.7	0	-	-	7.6	0	-	17.3
HCM Lane LOS	C	A	-	-	A	A	-	C
HCM 95th %tile Q(veh)	0.2	0	-	-	0	-	-	0.1



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	272	370	55	40	256	8	139	105	182	12	14	59
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1696	1696	1696	1696	1696	1900	1727	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	296	402	60	43	278	9	151	114	198	13	15	64
Adj No. of Lanes	1	1	1	1	1	0	1	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	12	12	12	12	12	12	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	330	660	561	216	521	17	200	195	339	48	47	113
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.20	0.39	0.39	0.13	0.32	0.32	0.12	0.34	0.34	0.18	0.18	0.18
Ln Grp Delay, s/veh	56.5	26.2	17.9	35.1	0.0	28.9	44.5	0.0	25.3	34.1	0.0	0.0
Ln Grp LOS	E	C	B	D		C	D		C	C		
Approach Vol, veh/h		758			330			463			92	
Approach Delay, s/veh		37.4			29.7			31.6			34.1	
Approach LOS		D			C			C			C	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2	4	3	6	5	7	8
Case No		4.0	3.0	2.0	8.4	2.0	2.0	4.0
Phs Duration (G+Y+Rc), s		34.9	39.0	16.1	20.0	14.9	22.4	32.7
Change Period (Y+Rc), s		4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s		36.0	35.0	7.0	16.0	16.0	21.0	21.0
Max Allow Headway (MAH), s		4.2	4.1	4.0	4.4	4.2	4.1	4.0
Max Q Clear (g_c+I1), s		16.8	19.1	4.1	17.3	10.0	18.1	14.6
Green Ext Time (g_e), s		1.7	1.5	0.3	0.0	1.0	0.3	0.6
Prob of Phs Call (p_c)		1.00	1.00	0.66	1.00	1.00	1.00	1.00
Prob of Max Out (p_x)		0.00	0.00	1.00	1.00	0.48	1.00	0.00

Left-Turn Movement Data								
Assigned Mvmt				3	1	5	7	
Mvmt Sat Flow, veh/h				1616	14	1645	1616	

Through Movement Data								
Assigned Mvmt		2	4		6			8
Mvmt Sat Flow, veh/h		568	1696		264			1634

Right-Turn Movement Data								
Assigned Mvmt		12	14		16			18
Mvmt Sat Flow, veh/h		986	1442		637			53

Left Lane Group Data								
Assigned Mvmt	0	0	0	3	1	5	7	0
Lane Assignment				(Prot)	L+T+R	(Prot)	(Prot)	
Lanes in Grp	0	0	0	1	1	1	1	0

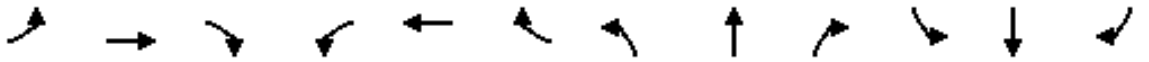
Grp Vol (v), veh/h	0	0	0	43	92	151	296	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1616	916	1645	1616	0
Q Serve Time (g_s), s	0.0	0.0	0.0	2.1	0.4	8.0	16.1	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	2.1	15.3	8.0	16.1	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	1084	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	16.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	8.5	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	4.7	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.00	0.00	1.00	0.14	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	0	0	216	209	200	330	0
V/C Ratio (X)	0.00	0.00	0.00	0.20	0.44	0.75	0.90	0.00
Avail Cap (c_a), veh/h	0	0	0	216	209	292	377	0
Upstream Filter (I)	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	34.7	32.6	38.2	34.9	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.4	1.5	6.3	21.6	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	35.1	34.1	44.5	56.5	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	1.0	2.0	3.6	7.2	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.1	0.4	2.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	1.0	2.1	4.0	9.1	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.27	0.03	0.66	3.05	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	6	0	0	8
Lane Assignment			T					
Lanes in Grp	0	0	1	0	0	0	0	0
Grp Vol (v), veh/h	0	0	402	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	1696	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	17.1	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	17.1	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	660	0	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.61	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	660	0	0	0	0	0
Upstream Filter (I)	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	22.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	26.2	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	7.9	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	8.7	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	14	0	16	0	0	18
Lane Assignment		T+R	R					T+R
Lanes in Grp	0	1	1	0	0	0	0	1
Grp Vol (v), veh/h	0	312	60	0	0	0	0	287
Grp Sat Flow (s), veh/h/ln	0	1553	1442	0	0	0	0	1687
Q Serve Time (g_s), s	0.0	14.8	2.4	0.0	0.0	0.0	0.0	12.6
Cycle Q Clear Time (g_c), s	0.0	14.8	2.4	0.0	0.0	0.0	0.0	12.6
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.63	1.00	0.00	0.70	0.00	0.00	0.03
Lane Grp Cap (c), veh/h	0	534	561	0	0	0	0	538
V/C Ratio (X)	0.00	0.58	0.11	0.00	0.00	0.00	0.00	0.53
Avail Cap (c_a), veh/h	0	621	561	0	0	0	0	538
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	24.2	17.5	0.0	0.0	0.0	0.0	25.2
Incr Delay (d2), s/veh	0.0	1.0	0.4	0.0	0.0	0.0	0.0	3.8
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	25.3	17.9	0.0	0.0	0.0	0.0	28.9
1st-Term Q (Q1), veh/ln	0.0	6.3	0.9	0.0	0.0	0.0	0.0	5.8
2nd-Term Q (Q2), veh/ln	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.6
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	6.5	1.0	0.0	0.0	0.0	0.0	6.4
%ile Storage Ratio (RQ%)	0.00	0.01	0.35	0.00	0.00	0.00	0.00	0.09
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	34.0
HCM 2010 LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	272	370	55	40	256	8	139	105	182	12	14	59
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1696	1696	1696	1696	1696	1900	1727	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	296	402	60	43	278	9	151	114	198	13	15	64
Adj No. of Lanes	1	1	1	1	1	0	1	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	12	12	12	12	12	12	10	10	10	10	10	10
Cap, veh/h	330	660	561	216	521	17	200	195	339	48	47	113
Arrive On Green	0.20	0.39	0.39	0.13	0.32	0.32	0.12	0.34	0.34	0.18	0.18	0.18
Sat Flow, veh/h	1616	1696	1442	1616	1634	53	1645	568	986	14	264	637
Grp Volume(v), veh/h	296	402	60	43	0	287	151	0	312	92	0	0
Grp Sat Flow(s),veh/h/ln	1616	1696	1442	1616	0	1687	1645	0	1553	916	0	0
Q Serve(g_s), s	16.1	17.1	2.4	2.1	0.0	12.6	8.0	0.0	14.8	0.4	0.0	0.0
Cycle Q Clear(g_c), s	16.1	17.1	2.4	2.1	0.0	12.6	8.0	0.0	14.8	15.3	0.0	0.0
Prop In Lane	1.00		1.00	1.00		0.03	1.00		0.63	0.14		0.70
Lane Grp Cap(c), veh/h	330	660	561	216	0	538	200	0	534	209	0	0
V/C Ratio(X)	0.90	0.61	0.11	0.20	0.00	0.53	0.75	0.00	0.58	0.44	0.00	0.00
Avail Cap(c_a), veh/h	377	660	561	216	0	538	292	0	621	209	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	34.9	22.0	17.5	34.7	0.0	25.2	38.2	0.0	24.2	32.6	0.0	0.0
Incr Delay (d2), s/veh	21.6	4.2	0.4	0.4	0.0	3.8	6.3	0.0	1.0	1.5	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	9.1	8.7	1.0	1.0	0.0	6.4	4.0	0.0	6.5	2.1	0.0	0.0
LnGrp Delay(d),s/veh	56.5	26.2	17.9	35.1	0.0	28.9	44.5	0.0	25.3	34.1	0.0	0.0
LnGrp LOS	E	C	B	D		C	D		C	C		
Approach Vol, veh/h		758			330			463			92	
Approach Delay, s/veh		37.4			29.7			31.6			34.1	
Approach LOS		D			C			C			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s		34.9	16.1	39.0	14.9	20.0	22.4	32.7
Change Period (Y+Rc), s		4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s		36.0	7.0	35.0	16.0	16.0	21.0	21.0
Max Q Clear Time (g_c+I1), s		16.8	4.1	19.1	10.0	17.3	18.1	14.6
Green Ext Time (p_c), s		1.7	0.3	1.5	1.0	0.0	0.3	0.6

Intersection Summary		
HCM 2010 Ctrl Delay		34.0
HCM 2010 LOS		C

Intersection	
Int Delay, s/veh	14

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	194	256	47	7	166	23	12	97	48	5	77	52
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	136	-	-	135	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	30	30	30	30	30	30	14	14	14	14	14	14
Mvmt Flow	211	278	51	8	180	25	13	105	52	5	84	57

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	205	0	0	329	0	0	1004	947	304	1012	959	193
Stage 1	-	-	-	-	-	-	726	726	-	208	208	-
Stage 2	-	-	-	-	-	-	278	221	-	804	751	-
Critical Hdwy	4.4	-	-	4.4	-	-	7.24	6.64	6.34	7.24	6.64	6.34
Critical Hdwy Stg 1	-	-	-	-	-	-	6.24	5.64	-	6.24	5.64	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.24	5.64	-	6.24	5.64	-
Follow-up Hdwy	2.47	-	-	2.47	-	-	3.626	4.126	3.426	3.626	4.126	3.426
Pot Cap-1 Maneuver	1216	-	-	1089	-	-	210	249	708	207	245	819
Stage 1	-	-	-	-	-	-	398	412	-	767	708	-
Stage 2	-	-	-	-	-	-	703	699	-	359	401	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1216	-	-	1089	-	-	115	204	708	99	201	819
Mov Cap-2 Maneuver	-	-	-	-	-	-	115	204	-	99	201	-
Stage 1	-	-	-	-	-	-	329	341	-	634	703	-
Stage 2	-	-	-	-	-	-	572	694	-	190	331	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	3.3	0.3	49	32.9
HCM LOS			E	D

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	242	1216	-	-	1089	-	-	270
HCM Lane V/C Ratio	0.705	0.173	-	-	0.007	-	-	0.539
HCM Control Delay (s)	49	8.6	-	-	8.3	-	-	32.9
HCM Lane LOS	E	A	-	-	A	-	-	D
HCM 95th %tile Q(veh)	4.7	0.6	-	-	0	-	-	3

Intersection	
Int Delay, s/veh	4.2

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	107	138	28	259	100	131
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	30	30	30	30	30	30
Mvmt Flow	116	150	30	282	109	142

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	266	0	533	191
Stage 1	-	-	-	-	191	-
Stage 2	-	-	-	-	342	-
Critical Hdwy	-	-	4.4	-	6.7	6.5
Critical Hdwy Stg 1	-	-	-	-	5.7	-
Critical Hdwy Stg 2	-	-	-	-	5.7	-
Follow-up Hdwy	-	-	2.47	-	3.77	3.57
Pot Cap-1 Maneuver	-	-	1152	-	462	784
Stage 1	-	-	-	-	779	-
Stage 2	-	-	-	-	661	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1152	-	448	784
Mov Cap-2 Maneuver	-	-	-	-	448	-
Stage 1	-	-	-	-	779	-
Stage 2	-	-	-	-	641	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0.8	12.8
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	NBLn2	EBT	EBR	WBL	WBT
Capacity (veh/h)	448	784	-	-	1152	-
HCM Lane V/C Ratio	0.243	0.182	-	-	0.026	-
HCM Control Delay (s)	15.6	10.6	-	-	8.2	0
HCM Lane LOS	C	B	-	-	A	A
HCM 95th %tile Q(veh)	0.9	0.7	-	-	0.1	-

Intersection	
Int Delay, s/veh	1.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	4	8	12	13	4	0	37	329	59	0	205	18
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	220	-	-	238	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	20	20	20	20	20	20
Mvmt Flow	4	9	13	14	4	0	40	358	64	0	223	20

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	705	735	233	713	712	390	242	0	0	422	0	0
Stage 1	233	233	-	470	470	-	-	-	-	-	-	-
Stage 2	472	502	-	243	242	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.2	6.6	6.3	4.3	-	-	4.3	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.59	4.09	3.39	2.38	-	-	2.38	-	-
Pot Cap-1 Maneuver	341	337	787	337	348	641	1226	-	-	1047	-	-
Stage 1	752	697	-	559	547	-	-	-	-	-	-	-
Stage 2	558	529	-	743	691	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	329	326	787	317	337	641	1226	-	-	1047	-	-
Mov Cap-2 Maneuver	329	326	-	317	337	-	-	-	-	-	-	-
Stage 1	727	697	-	541	529	-	-	-	-	-	-	-
Stage 2	535	512	-	722	691	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	13.3	16.9	0.7	0
HCM LOS	B	C		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1226	-	-	462	321	1047	-	-
HCM Lane V/C Ratio	0.033	-	-	0.056	0.058	-	-	-
HCM Control Delay (s)	8	-	-	13.3	16.9	0	-	-
HCM Lane LOS	A	-	-	B	C	A	-	-
HCM 95th %tile Q(veh)	0.1	-	-	0.2	0.2	0	-	-

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	3	105	138	47	164	8	273	297	73	127	399	49
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1727	1900	1900	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	3	114	150	51	178	9	297	323	79	138	434	53
Adj No. of Lanes	0	1	0	0	1	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	41	138	179	91	233	11	804	413	100	836	522	63
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.20	0.20	0.20	0.20	0.20	0.20	0.49	0.16	0.16	0.51	0.18	0.18
Ln Grp Delay, s/veh	38.1	0.0	0.0	36.9	0.0	0.0	14.6	56.5	58.5	12.0	58.8	59.4
Ln Grp LOS	D			D			B	E	E	B	E	E
Approach Vol, veh/h		267			238			699			625	
Approach Delay, s/veh		38.1			36.9			39.3			48.7	
Approach LOS		D			D			D			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1		4	6	5		8
Case No	4.0	2.0		8.0	4.0	2.0		8.0
Phs Duration (G+Y+Rc), s	18.2	49.7		22.1	19.9	48.0		22.1
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green (Gmax), s	34.0	17.0		27.0	22.0	29.0		27.0
Max Allow Headway (MAH), s	4.1	4.1		4.2	4.1	4.1		4.2
Max Q Clear (g_c+I1), s	12.8	6.1		16.6	14.9	12.1		16.6
Green Ext Time (g_e), s	1.3	1.2		1.5	1.1	1.4		1.5
Prob of Phs Call (p_c)	1.00	0.97		1.00	1.00	1.00		1.00
Prob of Max Out (p_x)	0.00	0.05		0.10	0.28	0.00		0.10

Left-Turn Movement Data								
Assigned Mvmt		1		7		5		3
Mvmt Sat Flow, veh/h		1645		5		1645		211

Through Movement Data								
Assigned Mvmt	2			4	6			8
Mvmt Sat Flow, veh/h	2624			688	2947			1159

Right-Turn Movement Data								
Assigned Mvmt	12			14	16			18
Mvmt Sat Flow, veh/h	633			888	358			54

Left Lane Group Data								
Assigned Mvmt	0	1	0	7	0	5	0	3
Lane Assignment		(Prot)		L+T+R		(Prot)		L+T+R
Lanes in Grp	0	1	0	1	0	1	0	1

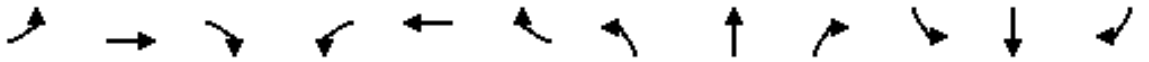
Grp Vol (v), veh/h	0	138	0	267	0	297	0	238
Grp Sat Flow (s), veh/h/ln	0	1645	0	1581	0	1645	0	1424
Q Serve Time (g_s), s	0.0	4.1	0.0	0.0	0.0	10.1	0.0	0.1
Cycle Q Clear Time (g_c), s	0.0	4.1	0.0	14.6	0.0	10.1	0.0	14.6
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	1215	0	0	0	1133
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	1726	0	0	0	1260
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	18.1	0.0	0.0	0.0	18.1
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	3.5	0.0	0.0	0.0	3.5
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Time to First Blk (g_f), s	0.0	0.0	0.0	13.3	0.0	0.0	0.0	4.6
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	13.3	0.0	0.0	0.0	4.6
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	0.01	0.00	1.00	0.00	0.21
Lane Grp Cap (c), veh/h	0	836	0	358	0	804	0	335
V/C Ratio (X)	0.00	0.17	0.00	0.74	0.00	0.37	0.00	0.71
Avail Cap (c_a), veh/h	0	836	0	513	0	804	0	483
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	11.9	0.0	34.6	0.0	14.4	0.0	34.1
Incr Delay (d2), s/veh	0.0	0.1	0.0	3.5	0.0	0.3	0.0	2.8
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	12.0	0.0	38.1	0.0	14.6	0.0	36.9
1st-Term Q (Q1), veh/ln	0.0	1.8	0.0	6.4	0.0	4.6	0.0	5.7
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.4	0.0	0.1	0.0	0.3
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.9	0.0	6.7	0.0	4.7	0.0	5.9
%ile Storage Ratio (RQ%)	0.00	0.21	0.00	0.01	0.00	0.69	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	6	0	0	8
Lane Assignment	T				T			
Lanes in Grp	1	0	0	0	1	0	0	0
Grp Vol (v), veh/h	200	0	0	0	241	0	0	0
Grp Sat Flow (s), veh/h/ln	1641	0	0	0	1641	0	0	0
Q Serve Time (g_s), s	10.5	0.0	0.0	0.0	12.7	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	10.5	0.0	0.0	0.0	12.7	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	258	0	0	0	290	0	0	0
V/C Ratio (X)	0.78	0.00	0.00	0.00	0.83	0.00	0.00	0.00
Avail Cap (c_a), veh/h	620	0	0	0	401	0	0	0
Upstream Filter (I)	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	36.4	0.0	0.0	0.0	35.7	0.0	0.0	0.0
Incr Delay (d2), s/veh	20.1	0.0	0.0	0.0	23.1	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	56.5	0.0	0.0	0.0	58.8	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	4.8	0.0	0.0	0.0	5.7	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	1.4	0.0	0.0	0.0	1.9	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	6.2	0.0	0.0	0.0	7.6	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.05	0.00	0.00	0.00	0.19	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	0	14	16	0	0	18
Lane Assignment	T+R				T+R			
Lanes in Grp	1	0	0	0	1	0	0	0
Grp Vol (v), veh/h	202	0	0	0	246	0	0	0
Grp Sat Flow (s), veh/h/ln	1616	0	0	0	1664	0	0	0
Q Serve Time (g_s), s	10.8	0.0	0.0	0.0	12.9	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	10.8	0.0	0.0	0.0	12.9	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.39	0.00	0.00	0.56	0.22	0.00	0.00	0.04
Lane Grp Cap (c), veh/h	254	0	0	0	295	0	0	0
V/C Ratio (X)	0.79	0.00	0.00	0.00	0.84	0.00	0.00	0.00
Avail Cap (c_a), veh/h	610	0	0	0	407	0	0	0
Upstream Filter (I)	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	36.5	0.0	0.0	0.0	35.8	0.0	0.0	0.0
Incr Delay (d2), s/veh	22.0	0.0	0.0	0.0	23.6	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	58.5	0.0	0.0	0.0	59.4	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	4.8	0.0	0.0	0.0	5.9	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	1.6	0.0	0.0	0.0	1.9	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	6.4	0.0	0.0	0.0	7.8	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.06	0.00	0.00	0.00	0.19	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	42.0
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	3	105	138	47	164	8	273	297	73	127	399	49
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1727	1900	1900	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	3	114	150	51	178	9	297	323	79	138	434	53
Adj No. of Lanes	0	1	0	0	1	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	41	138	179	91	233	11	804	413	100	836	522	63
Arrive On Green	0.20	0.20	0.20	0.20	0.20	0.20	0.49	0.16	0.16	0.51	0.18	0.18
Sat Flow, veh/h	5	688	888	211	1159	54	1645	2624	633	1645	2947	358
Grp Volume(v), veh/h	267	0	0	238	0	0	297	200	202	138	241	246
Grp Sat Flow(s),veh/h/ln	1581	0	0	1424	0	0	1645	1641	1616	1645	1641	1664
Q Serve(g_s), s	0.0	0.0	0.0	0.1	0.0	0.0	10.1	10.5	10.8	4.1	12.7	12.9
Cycle Q Clear(g_c), s	14.6	0.0	0.0	14.6	0.0	0.0	10.1	10.5	10.8	4.1	12.7	12.9
Prop In Lane	0.01		0.56	0.21		0.04	1.00		0.39	1.00		0.22
Lane Grp Cap(c), veh/h	358	0	0	335	0	0	804	258	254	836	290	295
V/C Ratio(X)	0.74	0.00	0.00	0.71	0.00	0.00	0.37	0.78	0.79	0.17	0.83	0.84
Avail Cap(c_a), veh/h	513	0	0	483	0	0	804	620	610	836	401	407
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	34.6	0.0	0.0	34.1	0.0	0.0	14.4	36.4	36.5	11.9	35.7	35.8
Incr Delay (d2), s/veh	3.5	0.0	0.0	2.8	0.0	0.0	0.3	20.1	22.0	0.1	23.1	23.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.7	0.0	0.0	5.9	0.0	0.0	4.7	6.2	6.4	1.9	7.6	7.8
LnGrp Delay(d),s/veh	38.1	0.0	0.0	36.9	0.0	0.0	14.6	56.5	58.5	12.0	58.8	59.4
LnGrp LOS	D			D			B	E	E	B	E	E
Approach Vol, veh/h		267			238			699			625	
Approach Delay, s/veh		38.1			36.9			39.3			48.7	
Approach LOS		D			D			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	49.7	18.2		22.1	48.0	19.9		22.1
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	17.0	34.0		27.0	29.0	22.0		27.0
Max Q Clear Time (g_c+I1), s	16.1	12.8		16.6	12.1	14.9		16.6
Green Ext Time (p_c), s	1.2	1.3		1.5	1.4	1.1		1.5

Intersection Summary	
HCM 2010 Ctrl Delay	42.0
HCM 2010 LOS	D

Intersection	
Int Delay, s/veh	3.1

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	8	103	224	464	349	15
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	20	331	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	9	112	243	504	379	16

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1379	388	396	0	-	0
Stage 1	388	-	-	-	-	-
Stage 2	991	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	153	643	1120	-	-	-
Stage 1	668	-	-	-	-	-
Stage 2	347	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	120	643	1120	-	-	-
Mov Cap-2 Maneuver	120	-	-	-	-	-
Stage 1	668	-	-	-	-	-
Stage 2	272	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	13.6	3	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	1120	-	120	643	-	-
HCM Lane V/C Ratio	0.217	-	0.072	0.174	-	-
HCM Control Delay (s)	9.1	-	37.3	11.8	-	-
HCM Lane LOS	A	-	E	B	-	-
HCM 95th %tile Q(veh)	0.8	-	0.2	0.6	-	-

Intersection	
Int Delay, s/veh	8.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	0	123	39	9	40	0	282	0	111	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	0	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	30	30	30	30	30	30	30	30	30	30	30	30
Mvmt Flow	0	134	42	10	43	0	307	0	121	0	0	0

Major/Minor	Major1			Major2			Minor1		
Conflicting Flow All	43	0	0	176	0	0	218	218	155
Stage 1	-	-	-	-	-	-	155	155	-
Stage 2	-	-	-	-	-	-	63	63	-
Critical Hdwy	4.4	-	-	4.4	-	-	6.7	6.8	6.5
Critical Hdwy Stg 1	-	-	-	-	-	-	5.7	5.8	-
Critical Hdwy Stg 2	-	-	-	-	-	-	5.7	5.8	-
Follow-up Hdwy	2.47	-	-	2.47	-	-	3.77	4.27	3.57
Pot Cap-1 Maneuver	1403	-	-	1248	-	-	712	634	822
Stage 1	-	-	-	-	-	-	809	719	-
Stage 2	-	-	-	-	-	-	893	791	-
Platoon blocked, %		-	-		-	-			
Mov Cap-1 Maneuver	1403	-	-	1248	-	-	706	0	822
Mov Cap-2 Maneuver	-	-	-	-	-	-	706	0	-
Stage 1	-	-	-	-	-	-	809	0	-
Stage 2	-	-	-	-	-	-	886	0	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.5	12.9
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	NBLn2	EBL	EBT	EBR	WBL	WBT	WBR
Capacity (veh/h)	706	822	1403	-	-	1248	-	-
HCM Lane V/C Ratio	0.434	0.147	-	-	-	0.008	-	-
HCM Control Delay (s)	14	10.1	0	-	-	7.9	0	-
HCM Lane LOS	B	B	A	-	-	A	A	-
HCM 95th %tile Q(veh)	2.2	0.5	0	-	-	0	-	-

AM 2035 NOG+O&G Projection

Intersection	
Int Delay, s/veh	11.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	15	44	23	163	57	4	4	115	36	6	404	32
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	16	48	25	177	62	4	4	125	39	7	439	35

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	656	643	457	659	640	145	474	0	0	164	0	0
Stage 1	470	470	-	153	153	-	-	-	-	-	-	-
Stage 2	186	173	-	506	487	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.2	6.6	6.3	4.2	-	-	4.2	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.59	4.09	3.39	2.29	-	-	2.29	-	-
Pot Cap-1 Maneuver	368	382	587	366	383	881	1047	-	-	1367	-	-
Stage 1	559	547	-	831	756	-	-	-	-	-	-	-
Stage 2	798	741	-	534	537	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	318	378	587	314	379	881	1047	-	-	1367	-	-
Mov Cap-2 Maneuver	318	378	-	314	379	-	-	-	-	-	-	-
Stage 1	557	543	-	828	753	-	-	-	-	-	-	-
Stage 2	726	738	-	463	533	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	16.4	40.6	0.2	0.1
HCM LOS	C	E		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1047	-	-	404	332	1367	-	-
HCM Lane V/C Ratio	0.004	-	-	0.221	0.733	0.005	-	-
HCM Control Delay (s)	8.5	0	-	16.4	40.6	7.6	0	-
HCM Lane LOS	A	A	-	C	E	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.8	5.5	0	-	-

Intersection	
Intersection Delay, s/veh	9.2
Intersection LOS	A

Movement	EBU	EBL	EBT	WBU	WBT	WBR	SBU	SBL	SBR
Vol, veh/h	0	41	50	0	126	71	0	108	136
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	45	54	0	137	77	0	117	148
Number of Lanes	0	1	1	0	1	1	0	1	1

Approach	EB	WB	SB
Opposing Approach	WB	EB	
Opposing Lanes	2	2	0
Conflicting Approach Left	SB		WB
Conflicting Lanes Left	2	0	2
Conflicting Approach Right		SB	EB
Conflicting Lanes Right	0	2	2
HCM Control Delay	9.1	9.1	9.3
HCM LOS	A	A	A

Lane	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1	SBLn2
Vol Left, %	100%	0%	0%	0%	100%	0%
Vol Thru, %	0%	100%	100%	0%	0%	0%
Vol Right, %	0%	0%	0%	100%	0%	100%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	41	50	126	71	108	136
LT Vol	41	0	0	0	108	0
Through Vol	0	50	126	0	0	0
RT Vol	0	0	0	71	0	136
Lane Flow Rate	45	54	137	77	117	148
Geometry Grp	7	7	7	7	7	7
Degree of Util (X)	0.075	0.084	0.208	0.102	0.194	0.195
Departure Headway (Hd)	6.089	5.584	5.473	4.768	5.964	4.759
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	587	640	655	749	601	752
Service Time	3.84	3.335	3.217	2.511	3.707	2.502
HCM Lane V/C Ratio	0.077	0.084	0.209	0.103	0.195	0.197
HCM Control Delay	9.3	8.9	9.7	8.1	10.1	8.7
HCM Lane LOS	A	A	A	A	B	A
HCM 95th-tile Q	0.2	0.3	0.8	0.3	0.7	0.7

Two Way Analysis cannot be performed on an All Way Stop Intersection.

Intersection	
Intersection Delay, s/veh	9.3
Intersection LOS	A

Movement	EBU	EBL	EBR	NBU	NBL	NBT	SBU	SBT	SBR	SEU	SEL	SER
Vol, veh/h	0	0	0	0	0	20	0	46	264	0	0	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	0	0	0	0	22	0	50	287	0	0	0
Number of Lanes	0	0	0	0	1	0	0	0	1	0	0	1

Approach	NB	SB	SE
Opposing Approach	SB	NB	
Opposing Lanes	2	1	0
Conflicting Approach Left	SE		SB
Conflicting Lanes Left	1	0	2
Conflicting Approach Right		SE	NB
Conflicting Lanes Right	0	1	1
HCM Control Delay	8.1	9.4	0
HCM LOS	A	A	-

Lane	NBLn1	SELn1	SBLn1	SBLn2
Vol Left, %	0%	0%	0%	0%
Vol Thru, %	100%	100%	15%	100%
Vol Right, %	0%	0%	85%	0%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	20	0	310	0
LT Vol	0	0	0	0
Through Vol	20	0	46	0
RT Vol	0	0	264	0
Lane Flow Rate	22	0	337	0
Geometry Grp	5	2	7	7
Degree of Util (X)	0.03	0	0.385	0
Departure Headway (Hd)	4.929	4.86	4.111	4.708
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	731	0	876	0
Service Time	2.929	2.861	1.833	2.429
HCM Lane V/C Ratio	0.03	0	0.385	0
HCM Control Delay	8.1	7.9	9.4	7.4
HCM Lane LOS	A	N	A	N
HCM 95th-tile Q	0.1	0	1.8	0

Intersection	
Int Delay, s/veh	19.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	5	31	3	2	34	29	0	0	0	123	35	548
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	116	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	29	29	29	29	29	29	10	10	10	10	10	10
Mvmt Flow	5	34	3	2	37	32	0	0	0	134	38	596

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	68	0	0	37	0	0	420	119	35	103	105	53
Stage 1	-	-	-	-	-	-	46	46	-	57	57	-
Stage 2	-	-	-	-	-	-	374	73	-	46	48	-
Critical Hdwy	4.39	-	-	4.39	-	-	7.2	6.6	6.3	7.2	6.6	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Follow-up Hdwy	2.461	-	-	2.461	-	-	3.59	4.09	3.39	3.59	4.09	3.39
Pot Cap-1 Maneuver	1378	-	-	1416	-	-	530	757	1015	859	770	992
Stage 1	-	-	-	-	-	-	948	841	-	935	832	-
Stage 2	-	-	-	-	-	-	631	819	-	948	839	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1378	-	-	1416	-	-	203	753	1015	856	766	992
Mov Cap-2 Maneuver	-	-	-	-	-	-	203	753	-	856	766	-
Stage 1	-	-	-	-	-	-	945	838	-	932	831	-
Stage 2	-	-	-	-	-	-	240	818	-	945	836	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	1	0.2	0	22.4
HCM LOS			A	C

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	-	1378	-	-	1416	-	-	952
HCM Lane V/C Ratio	-	0.004	-	-	0.002	-	-	0.806
HCM Control Delay (s)	0	7.6	-	-	7.5	0	-	22.4
HCM Lane LOS	A	A	-	-	A	A	-	C
HCM 95th %tile Q(veh)	-	0	-	-	0	-	-	9

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	0	0	0	0	37	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	29	29	10	10	10	10
Mvmt Flow	0	0	0	0	40	0

Major/Minor	Major1		Minor2	
Conflicting Flow All	0	0	0	0
Stage 1	-	-	0	-
Stage 2	-	-	0	-
Critical Hdwy	-	-	7.2	-
Critical Hdwy Stg 1	-	-	-	-
Critical Hdwy Stg 2	-	-	6.2	-
Follow-up Hdwy	-	-	3.59	-
Pot Cap-1 Maneuver	-	-	-	-
Stage 1	-	-	-	-
Stage 2	-	-	-	-
Platoon blocked, %		-		
Mov Cap-1 Maneuver	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-
Stage 1	-	-	-	-
Stage 2	-	-	-	-

Approach	EB	SB
HCM Control Delay, s	0	
HCM LOS		-

Minor Lane/Major Mvmt	EBL	EBT	SBLn1
Capacity (veh/h)	-	-	-
HCM Lane V/C Ratio	-	-	-
HCM Control Delay (s)	0	-	-
HCM Lane LOS	A	-	-
HCM 95th %tile Q(veh)	-	-	-

Intersection	
Int Delay, s/veh	10.3

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	109	84	309	15	39	346
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	500	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	29	29	29	29	10	10
Mvmt Flow	118	91	336	16	42	376

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	352	0	-	0	672	344
Stage 1	-	-	-	-	344	-
Stage 2	-	-	-	-	328	-
Critical Hdwy	4.39	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.461	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1071	-	-	-	409	681
Stage 1	-	-	-	-	700	-
Stage 2	-	-	-	-	712	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1071	-	-	-	364	681
Mov Cap-2 Maneuver	-	-	-	-	364	-
Stage 1	-	-	-	-	700	-
Stage 2	-	-	-	-	634	-

Approach	EB	WB	SB
HCM Control Delay, s	5	0	21.6
HCM LOS			C

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1071	-	-	-	626
HCM Lane V/C Ratio	0.111	-	-	-	0.668
HCM Control Delay (s)	8.8	-	-	-	21.6
HCM Lane LOS	A	-	-	-	C
HCM 95th %tile Q(veh)	0.4	-	-	-	5.1

Intersection	
Int Delay, s/veh	0.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NWL	NWR
Vol, veh/h	0	46	39	0	603	0	9	8	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	None	-	-
Storage Length	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	0	-	0	-
Grade, %	-	0	-	-	0	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	29	29	29	29	29	29	28	28	10	10
Mvmt Flow	0	50	42	0	655	0	10	9	0	0

Major/Minor	Major1			Major2			Minor2			
Conflicting Flow All	655	0	0	92	0	0	726	655		
Stage 1	-	-	-	-	-	-	655	-		
Stage 2	-	-	-	-	-	-	71	-		
Critical Hdwy	4.39	-	-	4.39	-	-	6.68	6.48		
Critical Hdwy Stg 1	-	-	-	-	-	-	5.68	-		
Critical Hdwy Stg 2	-	-	-	-	-	-	5.68	-		
Follow-up Hdwy	2.461	-	-	2.461	-	-	3.752	3.552		
Pot Cap-1 Maneuver	816	-	-	1349	-	-	356	423		
Stage 1	-	-	-	-	-	-	471	-		
Stage 2	-	-	-	-	-	-	890	-		
Platoon blocked, %		-	-		-	-				
Mov Cap-1 Maneuver	816	-	-	1349	-	-	356	423		
Mov Cap-2 Maneuver	-	-	-	-	-	-	356	-		
Stage 1	-	-	-	-	-	-	471	-		
Stage 2	-	-	-	-	-	-	890	-		

Approach	EB	WB	SB
HCM Control Delay, s	0	0	13.9
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	816	-	-	1349	-	-	423
HCM Lane V/C Ratio	-	-	-	-	-	-	0.044
HCM Control Delay (s)	0	-	-	0	-	-	13.9
HCM Lane LOS	A	-	-	A	-	-	B
HCM 95th %tile Q(veh)	0	-	-	0	-	-	0.1

Intersection	
Int Delay, s/veh	0.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBR	SEL	SER
Vol, veh/h	7	58	0	0	523	7	67	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	None	-	-
Storage Length	-	-	-	-	-	0	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	0	-	0	-
Grade, %	-	0	-	-	0	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	29	29	29	29	29	29	28	28	10	10
Mvmt Flow	8	63	0	0	568	8	73	0	0	0

Major/Minor	Major1			Major2			Minor1			
Conflicting Flow All	568	0	0	63	0	0	646	63		
Stage 1	-	-	-	-	-	-	78	-		
Stage 2	-	-	-	-	-	-	568	-		
Critical Hdwy	4.39	-	-	4.39	-	-	6.68	6.48		
Critical Hdwy Stg 1	-	-	-	-	-	-	5.68	-		
Critical Hdwy Stg 2	-	-	-	-	-	-	5.68	-		
Follow-up Hdwy	2.461	-	-	2.461	-	-	3.752	3.552		
Pot Cap-1 Maneuver	883	-	-	1384	-	-	398	933		
Stage 1	-	-	-	-	-	-	883	-		
Stage 2	-	-	-	-	-	-	519	-		
Platoon blocked, %		-	-		-	-				
Mov Cap-1 Maneuver	883	-	-	1384	-	-	394	933		
Mov Cap-2 Maneuver	-	-	-	-	-	-	394	-		
Stage 1	-	-	-	-	-	-	875	-		
Stage 2	-	-	-	-	-	-	519	-		

Approach	EB	WB	NB
HCM Control Delay, s	1	0	
HCM LOS			-

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR
Capacity (veh/h)	-	883	-	-	1384	-	-
HCM Lane V/C Ratio	-	0.009	-	-	-	-	-
HCM Control Delay (s)	-	9.1	0	-	0	-	-
HCM Lane LOS	-	A	A	-	A	-	-
HCM 95th %tile Q(veh)	-	0	-	-	0	-	-

Intersection	
Int Delay, s/veh	3.3

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	8	105	230	476	357	15
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	0	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	19	19	19	19
Mvmt Flow	9	114	250	517	388	16

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1413	396	404	0	-	0
Stage 1	396	-	-	-	-	-
Stage 2	1017	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.29	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.371	-	-	-
Pot Cap-1 Maneuver	146	636	1069	-	-	-
Stage 1	663	-	-	-	-	-
Stage 2	337	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	112	636	1069	-	-	-
Mov Cap-2 Maneuver	112	-	-	-	-	-
Stage 1	663	-	-	-	-	-
Stage 2	258	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	15.1	3.1	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1069	-	478	-	-
HCM Lane V/C Ratio	0.234	-	0.257	-	-
HCM Control Delay (s)	9.4	-	15.1	-	-
HCM Lane LOS	A	-	C	-	-
HCM 95th %tile Q(veh)	0.9	-	1	-	-

Intersection	
Intersection Delay, s/veh	60.3
Intersection LOS	F

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	27	138	60	0	129	533	84	0	131	191	209
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	29	150	65	0	140	579	91	0	142	208	227
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	1	1	2
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	2	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	2	1
HCM Control Delay	26.6	73.3	73
HCM LOS	D	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1	SBLn2
Vol Left, %	25%	12%	17%	23%	0%
Vol Thru, %	36%	61%	71%	77%	0%
Vol Right, %	39%	27%	11%	0%	100%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	531	225	746	301	82
LT Vol	131	27	129	68	0
Through Vol	191	138	533	233	0
RT Vol	209	60	84	0	82
Lane Flow Rate	577	245	811	327	89
Geometry Grp	5	2	2	7	7
Degree of Util (X)	1	0.626	1	0.831	0.206
Departure Headway (Hd)	8.43	9.21	8.483	9.147	8.334
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	433	391	438	396	431
Service Time	6.43	7.278	6.483	6.895	6.082
HCM Lane V/C Ratio	1.333	0.627	1.852	0.826	0.206
HCM Control Delay	73	26.6	73.3	43.8	13.2
HCM Lane LOS	F	D	F	E	B
HCM 95th-tile Q	12.7	4.1	12.6	7.7	0.8

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	68	233	82
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10
Mvmt Flow	0	74	253	89
Number of Lanes	0	0	1	1

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	1
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	37.2
HCM LOS	E

Lane

Intersection	
Intersection Delay, s/veh	52.9
Intersection LOS	F

Movement	EBU	EBL	EBR	NBU	NBL	NBT	SBU	SBT	SBR
Vol, veh/h	0	59	127	0	556	165	0	446	355
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	22	22	10	25	25	10	25	25
Mvmt Flow	0	64	138	0	604	179	0	485	386
Number of Lanes	0	1	1	0	1	1	0	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	1	2
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	1	2	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	2	0	2
HCM Control Delay	12.9	53.4	61.8
HCM LOS	B	F	F

Lane	NBLn1	NBLn2	EBLn1	EBLn2	SBLn1
Vol Left, %	100%	0%	100%	0%	0%
Vol Thru, %	0%	100%	0%	0%	56%
Vol Right, %	0%	0%	0%	100%	44%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	556	165	59	127	801
LT Vol	556	0	59	0	0
Through Vol	0	165	0	0	446
RT Vol	0	0	0	127	355
Lane Flow Rate	604	179	64	138	871
Geometry Grp	7	7	7	7	4
Degree of Util (X)	1	0.317	0.152	0.281	1
Departure Headway (Hd)	6.854	6.355	8.525	7.326	6.072
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	526	561	423	493	601
Service Time	4.646	4.146	6.23	5.031	4.152
HCM Lane V/C Ratio	1.148	0.319	0.151	0.28	1.449
HCM Control Delay	65.6	12.1	12.8	12.9	61.8
HCM Lane LOS	F	B	B	B	F
HCM 95th-tile Q	13.9	1.4	0.5	1.1	14.8

Intersection	
Intersection Delay, s/veh	60.1
Intersection LOS	F

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Vol, veh/h	0	14	89	13	0	318	706	71	0	0	205	57	0	22	593	90
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	22	22	22	10	22	22	22
Mvmt Flow	0	15	97	14	0	346	767	77	0	0	223	62	0	24	645	98
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	15.6	68	24	68.6
HCM LOS	C	F	C	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	12%	29%	3%
Vol Thru, %	78%	77%	64%	84%
Vol Right, %	22%	11%	6%	13%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	262	116	1095	705
LT Vol	0	14	318	22
Through Vol	205	89	706	593
RT Vol	57	13	71	90
Lane Flow Rate	285	126	1190	766
Geometry Grp	1	1	1	1
Degree of Util (X)	0.635	0.306	1	1
Departure Headway (Hd)	8.023	8.744	7.358	7.472
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	453	412	500	490
Service Time	6.036	6.775	5.388	5.502
HCM Lane V/C Ratio	0.629	0.306	2.38	1.563
HCM Control Delay	24	15.6	68	68.6
HCM Lane LOS	C	C	F	F
HCM 95th-tile Q	4.3	1.3	13.5	13.4

Intersection	
Int Delay, s/veh	197.1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	387	78	213	36	25	825
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	22	22	22	22
Mvmt Flow	421	85	232	39	27	897

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1202	251	0	0	271	0
Stage 1	251	-	-	-	-	-
Stage 2	951	-	-	-	-	-
Critical Hdwy	6.5	6.3	-	-	4.32	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	-	-	2.398	-
Pot Cap-1 Maneuver	~ 196	769	-	-	1185	-
Stage 1	772	-	-	-	-	-
Stage 2	~ 363	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	~ 187	769	-	-	1185	-
Mov Cap-2 Maneuver	~ 187	-	-	-	-	-
Stage 1	772	-	-	-	-	-
Stage 2	~ 347	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	$ 662.6	0	0.2
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	214	1185	-
HCM Lane V/C Ratio	-	-	2.362	0.023	-
HCM Control Delay (s)	-	-	$ 662.6	8.1	0
HCM Lane LOS	-	-	F	A	A
HCM 95th %tile Q(veh)	-	-	41	0.1	-

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	226	236	9	55	1084	0	83	14	8	1	146	921
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	246	257	10	60	1178	0	90	15	9	1	159	1001
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	80	844	33	512	883	0	80	405	243	581	82	517
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.51	0.51	0.51	0.51	0.51	0.00	0.40	0.40	0.40	0.40	0.40	0.40
Ln Grp Delay, s/veh	1011.0	0.0	12.9	16.1	180.2	0.0	183.5	0.0	16.5	16.7	0.0	453.7
Ln Grp LOS	F		B	B	F		F		B	B		F
Approach Vol, veh/h		513			1238			114			1161	
Approach Delay, s/veh		491.5			172.2			148.3			453.3	
Approach LOS		F			F			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Case No		6.0		6.0		6.0		6.0
Phs Duration (G+Y+Rc), s		40.0		50.0		40.0		50.0
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green (Gmax), s		36.0		46.0		36.0		46.0
Max Allow Headway (MAH), s		4.6		4.7		4.6		4.7
Max Q Clear (g_c+I1), s		38.0		48.0		38.0		48.0
Green Ext Time (g_e), s		0.0		0.0		0.0		0.0
Prob of Phs Call (p_c)		1.00		1.00		1.00		1.00
Prob of Max Out (p_x)		1.00		1.00		1.00		1.00

Left-Turn Movement Data								
Assigned Mvmt		5		7		1		3
Mvmt Sat Flow, veh/h		447		440		1281		1027

Through Movement Data								
Assigned Mvmt		2		4		6		8
Mvmt Sat Flow, veh/h		1013		1652		205		1727

Right-Turn Movement Data								
Assigned Mvmt		12		14		16		18
Mvmt Sat Flow, veh/h		608		64		1294		0

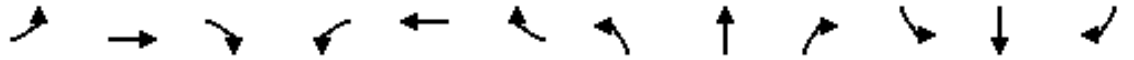
Left Lane Group Data								
Assigned Mvmt	0	5	0	7	0	1	0	3
Lane Assignment								
Lanes in Grp	0	1	0	1	0	1	0	1

Grp Vol (v), veh/h	0	90	0	246	0	1	0	60
Grp Sat Flow (s), veh/h/ln	0	447	0	440	0	1281	0	1027
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
Cycle Q Clear Time (g_c), s	0.0	36.0	0.0	46.0	0.0	0.9	0.0	11.3
Perm LT Sat Flow (s_l), veh/h/ln	0	447	0	440	0	1281	0	1027
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	36.0	0.0	46.0	0.0	36.0	0.0	46.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	35.2	0.0	37.9
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	80	0	80	0	581	0	512
V/C Ratio (X)	0.00	1.12	0.00	3.07	0.00	0.00	0.00	0.12
Avail Cap (c_a), veh/h	0	80	0	80	0	581	0	512
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	45.0	0.0	45.0	0.0	16.7	0.0	16.0
Incr Delay (d2), s/veh	0.0	138.5	0.0	966.0	0.0	0.0	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	183.5	0.0	1011.0	0.0	16.7	0.0	16.1
1st-Term Q (Q1), veh/ln	0.0	2.0	0.0	2.0	0.0	0.0	0.0	0.9
2nd-Term Q (Q2), veh/ln	0.0	3.1	0.0	21.5	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	5.1	0.0	23.4	0.0	0.0	0.0	0.9
%ile Storage Ratio (RQ%)	0.00	2.20	0.00	2.43	0.00	0.00	0.00	0.13
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	2.5	0.0	41.5	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.3	0.0	0.8	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	0	8
Lane Assignment								T
Lanes in Grp	0	0	0	0	0	0	0	1
Grp Vol (v), veh/h	0	0	0	0	0	0	0	1178
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	1727
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	883
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.33
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	883
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	158.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	180.2
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.6
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.8

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.4
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73.8
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	0	18
Lane Assignment		T+R		T+R		T+R		
Lanes in Grp	0	1	0	1	0	1	0	0
Grp Vol (v), veh/h	0	24	0	267	0	1160	0	0
Grp Sat Flow (s), veh/h/ln	0	1620	0	1716	0	1499	0	0
Q Serve Time (g_s), s	0.0	0.8	0.0	8.1	0.0	36.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.8	0.0	8.1	0.0	36.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.38	0.00	0.04	0.00	0.86	0.00	0.00
Lane Grp Cap (c), veh/h	0	648	0	877	0	600	0	0
V/C Ratio (X)	0.00	0.04	0.00	0.30	0.00	1.93	0.00	0.00
Avail Cap (c_a), veh/h	0	648	0	877	0	600	0	0
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	16.4	0.0	12.7	0.0	27.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.2	0.0	426.7	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	16.5	0.0	12.9	0.0	453.7	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.4	0.0	3.8	0.0	14.8	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	71.1	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.4	0.0	3.8	0.0	85.9	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.01	0.00	0.27	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	140.1	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	333.3
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	226	236	9	55	1084	0	83	14	8	1	146	921
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	246	257	10	60	1178	0	90	15	9	1	159	1001
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	80	844	33	512	883	0	80	405	243	581	82	517
Arrive On Green	0.51	0.51	0.51	0.51	0.51	0.00	0.40	0.40	0.40	0.40	0.40	0.40
Sat Flow, veh/h	440	1652	64	1027	1727	0	447	1013	608	1281	205	1294
Grp Volume(v), veh/h	246	0	267	60	1178	0	90	0	24	1	0	1160
Grp Sat Flow(s),veh/h/ln	440	0	1716	1027	1727	0	447	0	1620	1281	0	1499
Q Serve(g_s), s	0.0	0.0	8.1	3.2	46.0	0.0	0.0	0.0	0.8	0.0	0.0	36.0
Cycle Q Clear(g_c), s	46.0	0.0	8.1	11.3	46.0	0.0	36.0	0.0	0.8	0.9	0.0	36.0
Prop In Lane	1.00		0.04	1.00		0.00	1.00		0.38	1.00		0.86
Lane Grp Cap(c), veh/h	80	0	877	512	883	0	80	0	648	581	0	600
V/C Ratio(X)	3.07	0.00	0.30	0.12	1.33	0.00	1.12	0.00	0.04	0.00	0.00	1.93
Avail Cap(c_a), veh/h	80	0	877	512	883	0	80	0	648	581	0	600
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	45.0	0.0	12.7	16.0	22.0	0.0	45.0	0.0	16.4	16.7	0.0	27.0
Incr Delay (d2), s/veh	966.0	0.0	0.2	0.1	158.2	0.0	138.5	0.0	0.0	0.0	0.0	426.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	23.4	0.0	3.8	0.9	60.4	0.0	5.1	0.0	0.4	0.0	0.0	85.9
LnGrp Delay(d),s/veh	1011.0	0.0	12.9	16.1	180.2	0.0	183.5	0.0	16.5	16.7	0.0	453.7
LnGrp LOS	F		B	B	F		F		B	B		F
Approach Vol, veh/h		513			1238			114			1161	
Approach Delay, s/veh		491.5			172.2			148.3			453.3	
Approach LOS		F			F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Phs Duration (G+Y+Rc), s		40.0		50.0		40.0		50.0
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green Setting (Gmax), s		36.0		46.0		36.0		46.0
Max Q Clear Time (g_c+I1), s		38.0		48.0		38.0		48.0
Green Ext Time (p_c), s		0.0		0.0		0.0		0.0

Intersection Summary		
HCM 2010 Ctrl Delay		333.3
HCM 2010 LOS		F

Intersection	
Intersection Delay, s/veh	45.6
Intersection LOS	E

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Vol, veh/h	0	15	14	22	0	265	31	567	0	24	246	40	0	103	327	3
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	16	15	24	0	288	34	616	0	26	267	43	0	112	355	3
Number of Lanes	0	0	1	0	0	0	1	1	0	0	1	0	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	2	1
HCM Control Delay	13	52.9	24.7	49.8
HCM LOS	B	F	C	E

Lane	NBLn1	EBLn1	WBLn1	WBLn2	SBLn1
Vol Left, %	8%	29%	90%	0%	24%
Vol Thru, %	79%	27%	10%	0%	76%
Vol Right, %	13%	43%	0%	100%	1%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	310	51	296	567	433
LT Vol	24	15	265	0	103
Through Vol	246	14	31	0	327
RT Vol	40	22	0	567	3
Lane Flow Rate	337	55	322	616	471
Geometry Grp	2	5	7	7	2
Degree of Util (X)	0.682	0.134	0.717	1	0.923
Departure Headway (Hd)	7.29	8.679	8.022	6.842	7.063
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	495	416	450	530	513
Service Time	5.347	6.679	5.806	4.626	5.113
HCM Lane V/C Ratio	0.681	0.132	0.716	1.162	0.918
HCM Control Delay	24.7	13	28.8	65.5	49.8
HCM Lane LOS	C	B	D	F	E
HCM 95th-tile Q	5.1	0.5	5.6	14	11

Movement	NBL	NBR	SET	SER	NWL	NWT
Lane Configurations						
Volume (veh/h)	116	4	0	0	0	0
Number	5	12	4	14	3	8
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1598	1598	1727	1727
Adj Flow Rate, veh/h	126	4	0	0	0	0
Adj No. of Lanes	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Opposing Right Turn Influence	Yes				Yes	
Cap, veh/h	158	141	2	1	1358	1426
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.10	0.10	0.00	0.00	0.00	0.00
Ln Grp Delay, s/veh	54.0	41.9	0.0	0.0	0.0	0.0
Ln Grp LOS	D	D				
Approach Vol, veh/h	130		0			0
Approach Delay, s/veh	53.6		0.0			0.0
Approach LOS	D					

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2	4	3				8
Case No		9.0	7.0	2.0				4.0
Phs Duration (G+Y+Rc), s		13.8	0.0	88.2				88.2
Change Period (Y+Rc), s		4.0	4.0	4.0				4.0
Max Green (Gmax), s		34.0	34.0	22.0				60.0
Max Allow Headway (MAH), s		4.1	0.0	0.0				0.0
Max Q Clear (g_c+I1), s		9.6	0.0	0.0				0.0
Green Ext Time (g_e), s		0.4	0.0	0.0				0.0
Prob of Phs Call (p_c)		0.97	0.00	0.00				0.00
Prob of Max Out (p_x)		0.00	0.00	0.00				0.00

Left-Turn Movement Data								
Assigned Mvmt		5	7	3				
Mvmt Sat Flow, veh/h		1645	0	1645				

Through Movement Data								
Assigned Mvmt		2	4					8
Mvmt Sat Flow, veh/h		0	-63909					1727

Right-Turn Movement Data								
Assigned Mvmt		12	14					18
Mvmt Sat Flow, veh/h		1468	1358					0

Left Lane Group Data								
Assigned Mvmt	0	5	7	3	0	0	0	0
Lane Assignment				(Prot)				
Lanes in Grp	0	1	0	1	0	0	0	0

Grp Vol (v), veh/h	0	126	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	1645	0	1645	0	0	0	0
Q Serve Time (g_s), s	0.0	7.6	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	7.6	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	1645	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	-4.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	158	0	1358	0	0	0	0
V/C Ratio (X)	0.00	0.80	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	548	0	1358	0	0	0	0
Upstream Filter (I)	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	45.1	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	8.8	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	54.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.52	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	0	0	0	8
Lane Assignment			T					T
Lanes in Grp	0	0	1	0	0	0	0	1
Grp Vol (v), veh/h	0	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	1598	0	0	0	0	1727
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	2	0	0	0	0	1426
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	533	0	0	0	0	1426
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	14	0	0	0	0	18
Lane Assignment		R	R					
Lanes in Grp	0	1	1	0	0	0	0	0
Grp Vol (v), veh/h	0	4	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	1468	1358	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	141	1	0	0	0	0	0
V/C Ratio (X)	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	489	453	0	0	0	0	0
Upstream Filter (I)	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	41.8	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	41.9	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

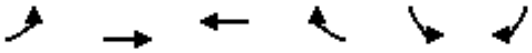
Intersection Summary	
HCM 2010 Ctrl Delay	53.6
HCM 2010 LOS	D



Movement	NBL	NBR	SET	SER	NWL	NWT
Lane Configurations						
Volume (veh/h)	116	4	0	0	0	0
Number	5	12	4	14	3	8
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1598	1598	1727	1727
Adj Flow Rate, veh/h	126	4	0	0	0	0
Adj No. of Lanes	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Cap, veh/h	158	141	2	1	1358	1426
Arrive On Green	0.10	0.10	0.00	0.00	0.00	0.00
Sat Flow, veh/h	1645	1468	-63909	1358	1645	1727
Grp Volume(v), veh/h	126	4	0	0	0	0
Grp Sat Flow(s),veh/h/ln	1645	1468	1598	1358	1645	1727
Q Serve(g_s), s	7.6	0.3	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	7.6	0.3	0.0	0.0	0.0	0.0
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	158	141	2	1	1358	1426
V/C Ratio(X)	0.80	0.03	0.00	0.00	0.00	0.00
Avail Cap(c_a), veh/h	548	489	533	453	1358	1426
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.99	0.99	0.00	0.00	0.00	0.00
Uniform Delay (d), s/veh	45.1	41.8	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	8.8	0.1	0.0	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.9	0.1	0.0	0.0	0.0	0.0
LnGrp Delay(d),s/veh	54.0	41.9	0.0	0.0	0.0	0.0
LnGrp LOS	D	D				
Approach Vol, veh/h	130		0			0
Approach Delay, s/veh	53.6		0.0			0.0
Approach LOS	D					

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4				8
Phs Duration (G+Y+Rc), s		13.8	88.2	0.0				88.2
Change Period (Y+Rc), s		4.0	4.0	4.0				4.0
Max Green Setting (Gmax), s		34.0	22.0	34.0				60.0
Max Q Clear Time (g_c+I1), s		9.6	0.0	0.0				0.0
Green Ext Time (p_c), s		0.4	0.0	0.0				0.0

Intersection Summary	
HCM 2010 Ctrl Delay	53.6
HCM 2010 LOS	D



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (veh/h)	0	392	720	181	150	29
Number	7	4	8	18	1	16
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00			1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	426	783	197	163	32
Adj No. of Lanes	1	2	2	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Opposing Right Turn Influence	Yes				Yes	
Cap, veh/h	541	2624	1416	633	201	179
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.00	0.80	0.43	0.43	0.12	0.12
Ln Grp Delay, s/veh	0.0	2.5	23.1	20.3	51.4	40.7
Ln Grp LOS		A	C	C	D	D
Approach Vol, veh/h		426	980		195	
Approach Delay, s/veh		2.5	22.6		49.6	
Approach LOS		A	C		D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	6			4			8	7
Case No	9.0			4.0			7.0	2.0
Phs Duration (G+Y+Rc), s	16.4			85.6			48.0	37.6
Change Period (Y+Rc), s	4.0			4.0			4.0	4.0
Max Green (Gmax), s	30.0			64.0			44.0	16.0
Max Allow Headway (MAH), s	4.1			4.0			4.1	0.0
Max Q Clear (g_c+I1), s	11.9			5.0			20.2	0.0
Green Ext Time (g_e), s	0.6			1.8			4.4	0.0
Prob of Phs Call (p_c)	1.00			1.00			1.00	0.00
Prob of Max Out (p_x)	0.00			0.00			0.00	0.00

Left-Turn Movement Data								
Assigned Mvmt	1						3	7
Mvmt Sat Flow, veh/h	1645						0	1645

Through Movement Data								
Assigned Mvmt	6			4			8	
Mvmt Sat Flow, veh/h	0			3368			3368	

Right-Turn Movement Data								
Assigned Mvmt	16			14			18	
Mvmt Sat Flow, veh/h	1468			0			1468	

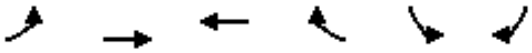
Left Lane Group Data								
Assigned Mvmt	1	0	0	0	0	0	3	7
Lane Assignment								(Prot)
Lanes in Grp	1	0	0	0	0	0	0	1

Grp Vol (v), veh/h	163	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	1645	0	0	0	0	0	0	1645
Q Serve Time (g_s), s	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	1645	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	44.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	201	0	0	0	0	0	0	541
V/C Ratio (X)	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	484	0	0	0	0	0	0	541
Upstream Filter (I)	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	43.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	51.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00
%ile Back of Q (50%), veh/ln	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	6	0	0	4	0	0	8	0
Lane Assignment				T			T	
Lanes in Grp	0	0	0	2	0	0	2	0
Grp Vol (v), veh/h	0	0	0	426	0	0	783	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1641	0	0	1641	0
Q Serve Time (g_s), s	0.0	0.0	0.0	3.0	0.0	0.0	18.2	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	3.0	0.0	0.0	18.2	0.0
Lane Grp Cap (c), veh/h	0	0	0	2624	0	0	1416	0
V/C Ratio (X)	0.00	0.00	0.00	0.16	0.00	0.00	0.55	0.00
Avail Cap (c_a), veh/h	0	0	0	2624	0	0	1416	0
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.00	0.95	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	2.4	0.0	0.0	21.7	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.1	0.0	0.0	1.5	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	2.5	0.0	0.0	23.1	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	1.4	0.0	0.0	8.2	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	1.4	0.0	0.0	8.4	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	16	0	0	14	0	0	18	0
Lane Assignment	R						R	
Lanes in Grp	1	0	0	0	0	0	1	0
Grp Vol (v), veh/h	32	0	0	0	0	0	197	0
Grp Sat Flow (s), veh/h/ln	1468	0	0	0	0	0	1468	0
Q Serve Time (g_s), s	2.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0
Cycle Q Clear Time (g_c), s	2.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	179	0	0	0	0	0	633	0
V/C Ratio (X)	0.18	0.00	0.00	0.00	0.00	0.00	0.31	0.00
Avail Cap (c_a), veh/h	432	0	0	0	0	0	633	0
Upstream Filter (I)	1.00	0.00	0.00	0.00	0.00	0.00	0.95	0.00
Uniform Delay (d1), s/veh	40.2	0.0	0.0	0.0	0.0	0.0	19.0	0.0
Incr Delay (d2), s/veh	0.5	0.0	0.0	0.0	0.0	0.0	1.2	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	40.7	0.0	0.0	0.0	0.0	0.0	20.3	0.0
1st-Term Q (Q1), veh/ln	1.7	0.0	0.0	0.0	0.0	0.0	3.6	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	1.7	0.0	0.0	0.0	0.0	0.0	3.8	0.0
%ile Storage Ratio (RQ%)	0.02	0.00	0.00	0.00	0.00	0.00	0.70	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	20.5
HCM 2010 LOS	C



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (veh/h)	0	392	720	181	150	29
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	426	783	197	163	32
Adj No. of Lanes	1	2	2	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Cap, veh/h	541	2624	1416	633	201	179
Arrive On Green	0.00	0.80	0.43	0.43	0.12	0.12
Sat Flow, veh/h	1645	3368	3368	1468	1645	1468
Grp Volume(v), veh/h	0	426	783	197	163	32
Grp Sat Flow(s),veh/h/ln	1645	1641	1641	1468	1645	1468
Q Serve(g_s), s	0.0	3.0	18.2	9.0	9.9	2.0
Cycle Q Clear(g_c), s	0.0	3.0	18.2	9.0	9.9	2.0
Prop In Lane	1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	541	2624	1416	633	201	179
V/C Ratio(X)	0.00	0.16	0.55	0.31	0.81	0.18
Avail Cap(c_a), veh/h	541	2624	1416	633	484	432
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	0.95	0.95	1.00	1.00
Uniform Delay (d), s/veh	0.0	2.4	21.7	19.0	43.7	40.2
Incr Delay (d2), s/veh	0.0	0.1	1.5	1.2	7.7	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	1.4	8.4	3.8	4.9	1.7
LnGrp Delay(d),s/veh	0.0	2.5	23.1	20.3	51.4	40.7
LnGrp LOS		A	C	C	D	D
Approach Vol, veh/h		426	980		195	
Approach Delay, s/veh		2.5	22.6		49.6	
Approach LOS		A	C		D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6	7	8
Phs Duration (G+Y+Rc), s				85.6		16.4	37.6	48.0
Change Period (Y+Rc), s				4.0		4.0	4.0	4.0
Max Green Setting (Gmax), s				64.0		30.0	16.0	44.0
Max Q Clear Time (g_c+I1), s				5.0		11.9	0.0	20.2
Green Ext Time (p_c), s				1.8		0.6	0.0	4.4

Intersection Summary	
HCM 2010 Ctrl Delay	20.5
HCM 2010 LOS	C

Two Way Analysis cannot be performed on Signalized Intersection.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	10	474	19	72	1121	25	201	298	91	3	74	9
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	11	515	21	78	1218	27	218	324	99	3	80	10
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	274	1287	576	371	1480	662	262	384	326	5	114	97
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.17	0.39	0.39	0.23	0.45	0.45	0.16	0.22	0.22	0.00	0.07	0.07
Ln Grp Delay, s/veh	35.7	23.2	19.2	32.3	27.6	11.4	55.8	46.4	12.8	122.5	54.1	45.2
Ln Grp LOS	D	C	B	C	C	B	E	D	B	F	D	D
Approach Vol, veh/h		547			1323			641			93	
Approach Delay, s/veh		23.3			27.5			44.4			55.4	
Approach LOS		C			C			D			E	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	6	5	8	7
Case No	2.0	3.0	3.0	2.0	3.0	2.0	3.0	2.0
Phs Duration (G+Y+Rc), s	4.3	26.7	44.0	27.0	10.8	20.2	50.0	21.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	4.0	32.0	40.0	10.0	16.0	20.0	46.0	4.0
Max Allow Headway (MAH), s	4.1	4.1	4.0	4.1	4.1	4.1	4.0	4.1
Max Q Clear (g_c+I1), s	2.2	20.3	13.5	5.9	6.6	15.1	35.0	2.6
Green Ext Time (g_e), s	0.0	1.9	2.2	0.1	0.1	1.2	4.5	0.0
Prob of Phs Call (p_c)	0.08	1.00	1.00	0.89	1.00	1.00	1.00	0.27
Prob of Max Out (p_x)	1.00	0.09	0.00	1.00	0.00	0.77	0.00	1.00

Left-Turn Movement Data								
Assigned Mvmt	1			3		5		7
Mvmt Sat Flow, veh/h	1645			1645		1645		1645

Through Movement Data								
Assigned Mvmt		2	4		6		8	
Mvmt Sat Flow, veh/h		1727	3282		1727		3282	

Right-Turn Movement Data								
Assigned Mvmt		12	14		16		18	
Mvmt Sat Flow, veh/h		1468	1468		1468		1468	

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	0	5	0	7
Lane Assignment	(Prot)			(Prot)		(Prot)		(Prot)
Lanes in Grp	1	0	0	1	0	1	0	1

Grp Vol (v), veh/h	3	0	0	78	0	218	0	11
Grp Sat Flow (s), veh/h/ln	1645	0	0	1645	0	1645	0	1645
Q Serve Time (g_s), s	0.2	0.0	0.0	3.9	0.0	13.1	0.0	0.6
Cycle Q Clear Time (g_c), s	0.2	0.0	0.0	3.9	0.0	13.1	0.0	0.6
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	5	0	0	371	0	262	0	274
V/C Ratio (X)	0.57	0.00	0.00	0.21	0.00	0.83	0.00	0.04
Avail Cap (c_a), veh/h	65	0	0	371	0	323	0	274
Upstream Filter (I)	1.00	0.00	0.00	0.58	0.00	1.00	0.00	0.96
Uniform Delay (d1), s/veh	50.8	0.0	0.0	32.1	0.0	41.6	0.0	35.6
Incr Delay (d2), s/veh	71.7	0.0	0.0	0.2	0.0	14.2	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	122.5	0.0	0.0	32.3	0.0	55.8	0.0	35.7
1st-Term Q (Q1), veh/ln	0.1	0.0	0.0	1.8	0.0	5.9	0.0	0.3
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.0	0.0	0.0	1.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.2	0.0	0.0	1.8	0.0	7.0	0.0	0.3
%ile Storage Ratio (RQ%)	0.06	0.00	0.00	0.13	0.00	1.54	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	6	0	8	0
Lane Assignment		T	T		T		T	
Lanes in Grp	0	1	2	0	1	0	2	0
Grp Vol (v), veh/h	0	324	515	0	80	0	1218	0
Grp Sat Flow (s), veh/h/ln	0	1727	1641	0	1727	0	1641	0
Q Serve Time (g_s), s	0.0	18.3	11.5	0.0	4.6	0.0	33.0	0.0
Cycle Q Clear Time (g_c), s	0.0	18.3	11.5	0.0	4.6	0.0	33.0	0.0
Lane Grp Cap (c), veh/h	0	384	1287	0	114	0	1480	0
V/C Ratio (X)	0.00	0.84	0.40	0.00	0.70	0.00	0.82	0.00
Avail Cap (c_a), veh/h	0	542	1287	0	271	0	1480	0
Upstream Filter (I)	0.00	1.00	0.96	0.00	1.00	0.00	0.58	0.00
Uniform Delay (d1), s/veh	0.0	38.0	22.4	0.0	46.6	0.0	24.4	0.0
Incr Delay (d2), s/veh	0.0	8.4	0.9	0.0	7.5	0.0	3.2	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	46.4	23.2	0.0	54.1	0.0	27.6	0.0
1st-Term Q (Q1), veh/ln	0.0	8.7	5.2	0.0	2.2	0.0	14.9	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.9	0.2	0.0	0.2	0.0	0.6	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	9.6	5.4	0.0	2.4	0.0	15.5	0.0
%ile Storage Ratio (RQ%)	0.00	0.11	0.01	0.00	0.01	0.00	0.03	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

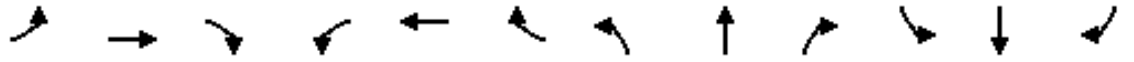
Right Lane Group Data								
Assigned Mvmt	0	12	14	0	16	0	18	0
Lane Assignment		R	R		R		R	
Lanes in Grp	0	1	1	0	1	0	1	0
Grp Vol (v), veh/h	0	99	21	0	10	0	27	0
Grp Sat Flow (s), veh/h/ln	0	1468	1468	0	1468	0	1468	0
Q Serve Time (g_s), s	0.0	3.5	0.9	0.0	0.7	0.0	0.9	0.0
Cycle Q Clear Time (g_c), s	0.0	3.5	0.9	0.0	0.7	0.0	0.9	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	326	576	0	97	0	662	0
V/C Ratio (X)	0.00	0.30	0.04	0.00	0.10	0.00	0.04	0.00
Avail Cap (c_a), veh/h	0	461	576	0	230	0	662	0
Upstream Filter (I)	0.00	1.00	0.96	0.00	1.00	0.00	0.58	0.00
Uniform Delay (d1), s/veh	0.0	12.3	19.1	0.0	44.8	0.0	11.3	0.0
Incr Delay (d2), s/veh	0.0	0.5	0.1	0.0	0.5	0.0	0.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	12.8	19.2	0.0	45.2	0.0	11.4	0.0
1st-Term Q (Q1), veh/ln	0.0	1.4	0.4	0.0	0.3	0.0	0.4	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	1.5	0.4	0.0	0.3	0.0	0.4	0.0
%ile Storage Ratio (RQ%)	0.00	0.32	0.05	0.00	0.09	0.00	0.04	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	31.8
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	10	474	19	72	1121	25	201	298	91	3	74	9
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	11	515	21	78	1218	27	218	324	99	3	80	10
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	274	1287	576	371	1480	662	262	384	326	5	114	97
Arrive On Green	0.17	0.39	0.39	0.23	0.45	0.45	0.16	0.22	0.22	0.00	0.07	0.07
Sat Flow, veh/h	1645	3282	1468	1645	3282	1468	1645	1727	1468	1645	1727	1468
Grp Volume(v), veh/h	11	515	21	78	1218	27	218	324	99	3	80	10
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1641	1468	1645	1727	1468	1645	1727	1468
Q Serve(g_s), s	0.6	11.5	0.9	3.9	33.0	0.9	13.1	18.3	3.5	0.2	4.6	0.7
Cycle Q Clear(g_c), s	0.6	11.5	0.9	3.9	33.0	0.9	13.1	18.3	3.5	0.2	4.6	0.7
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	274	1287	576	371	1480	662	262	384	326	5	114	97
V/C Ratio(X)	0.04	0.40	0.04	0.21	0.82	0.04	0.83	0.84	0.30	0.57	0.70	0.10
Avail Cap(c_a), veh/h	274	1287	576	371	1480	662	323	542	461	65	271	230
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.96	0.96	0.96	0.58	0.58	0.58	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	35.6	22.4	19.1	32.1	24.4	11.3	41.6	38.0	12.3	50.8	46.6	44.8
Incr Delay (d2), s/veh	0.1	0.9	0.1	0.2	3.2	0.1	14.2	8.4	0.5	71.7	7.5	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	5.4	0.4	1.8	15.5	0.4	7.0	9.6	1.5	0.2	2.4	0.3
LnGrp Delay(d),s/veh	35.7	23.2	19.2	32.3	27.6	11.4	55.8	46.4	12.8	122.5	54.1	45.2
LnGrp LOS	D	C	B	C	C	B	E	D	B	F	D	D
Approach Vol, veh/h		547			1323			641			93	
Approach Delay, s/veh		23.3			27.5			44.4			55.4	
Approach LOS		C			C			D			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	4.3	26.7	27.0	44.0	20.2	10.8	21.0	50.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	4.0	32.0	10.0	40.0	20.0	16.0	4.0	46.0
Max Q Clear Time (g_c+I1), s	2.2	20.3	5.9	13.5	15.1	6.6	2.6	35.0
Green Ext Time (p_c), s	0.0	1.9	0.1	2.2	1.2	0.1	0.0	4.5

Intersection Summary	
HCM 2010 Ctrl Delay	31.8
HCM 2010 LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	574	27	222	1200	2	111	0	815	5	3	0
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	624	29	241	1304	2	121	0	886	5	3	0
Adj No. of Lanes	1	2	1	1	2	0	2	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	121	1019	456	271	1351	2	1049	627	533	9	68	58
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.00	0.31	0.31	0.16	0.40	0.40	0.33	0.00	0.36	0.01	0.04	0.00
Ln Grp Delay, s/veh	0.0	32.6	4.4	63.3	55.0	54.2	23.9	0.0	336.7	101.5	47.4	0.0
Ln Grp LOS		C	A	E	D	D	C		F	F	D	
Approach Vol, veh/h		653			1547			1007			8	
Approach Delay, s/veh		31.3			55.9			299.1			81.2	
Approach LOS		C			E			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	6	5	8	7
Case No	2.0	3.0	2.0	3.0	3.0	2.0	4.0	2.0
Phs Duration (G+Y+Rc), s	4.5	41.0	20.8	35.7	8.0	37.5	45.0	11.5
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	4.0	37.0	19.0	26.0	25.0	16.0	41.0	4.0
Max Allow Headway (MAH), s	4.1	4.3	4.1	4.0	4.0	4.3	4.0	0.0
Max Q Clear (g_c+I1), s	2.3	39.0	16.6	18.5	2.2	4.7	40.7	0.0
Green Ext Time (g_e), s	0.0	0.0	0.2	1.8	0.0	4.1	0.2	0.0
Prob of Phs Call (p_c)	0.13	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Prob of Max Out (p_x)	1.00	1.00	1.00	0.00	0.00	0.35	0.00	0.00

Left-Turn Movement Data								
Assigned Mvmt	1		3			5		7
Mvmt Sat Flow, veh/h	1645		1645			3191		1645

Through Movement Data								
Assigned Mvmt		2		4	6		8	
Mvmt Sat Flow, veh/h		1727		3282	1727		3362	

Right-Turn Movement Data								
Assigned Mvmt		12		14	16		18	
Mvmt Sat Flow, veh/h		1468		1468	1468		5	

Left Lane Group Data								
Assigned Mvmt	1	0	3	0	0	5	0	7
Lane Assignment	(Prot)		(Prot)			(Prot)		(Prot)
Lanes in Grp	1	0	1	0	0	2	0	1

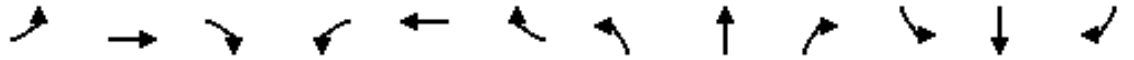
Grp Vol (v), veh/h	5	0	241	0	0	121	0	0
Grp Sat Flow (s), veh/h/ln	1645	0	1645	0	0	1596	0	1645
Q Serve Time (g_s), s	0.3	0.0	14.6	0.0	0.0	2.7	0.0	0.0
Cycle Q Clear Time (g_c), s	0.3	0.0	14.6	0.0	0.0	2.7	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	9	0	271	0	0	1049	0	121
V/C Ratio (X)	0.59	0.00	0.89	0.00	0.00	0.12	0.00	0.00
Avail Cap (c_a), veh/h	65	0	306	0	0	1049	0	121
Upstream Filter (I)	1.00	0.00	0.87	0.00	0.00	0.67	0.00	0.00
Uniform Delay (d1), s/veh	50.6	0.0	41.7	0.0	0.0	23.9	0.0	0.0
Incr Delay (d2), s/veh	50.9	0.0	21.6	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	101.5	0.0	63.3	0.0	0.0	23.9	0.0	0.0
1st-Term Q (Q1), veh/ln	0.1	0.0	6.6	0.0	0.0	1.2	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.1	0.0	1.6	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.3	0.0	8.3	0.0	0.0	1.2	0.0	0.0
%ile Storage Ratio (RQ%)	0.07	0.00	2.25	0.00	0.00	0.20	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	6	0	8	0
Lane Assignment		T		T	T		T	
Lanes in Grp	0	1	0	2	1	0	1	0
Grp Vol (v), veh/h	0	0	0	624	3	0	636	0
Grp Sat Flow (s), veh/h/ln	0	1727	0	1641	1727	0	1641	0
Q Serve Time (g_s), s	0.0	0.0	0.0	16.5	0.2	0.0	38.6	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	16.5	0.2	0.0	38.6	0.0
Lane Grp Cap (c), veh/h	0	627	0	1019	68	0	660	0
V/C Ratio (X)	0.00	0.00	0.00	0.61	0.04	0.00	0.96	0.00
Avail Cap (c_a), veh/h	0	627	0	1019	423	0	660	0
Upstream Filter (I)	0.00	0.00	0.00	0.97	1.00	0.00	0.87	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	29.9	47.2	0.0	29.8	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	2.7	0.3	0.0	25.2	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	32.6	47.4	0.0	55.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	7.5	0.1	0.0	17.5	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.4	0.0	0.0	4.6	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	7.8	0.1	0.0	22.1	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.02	0.01	0.00	0.12	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	16	0	18	0
Lane Assignment		R		R	R		T+R	
Lanes in Grp	0	1	0	1	1	0	1	0
Grp Vol (v), veh/h	0	886	0	29	0	0	670	0
Grp Sat Flow (s), veh/h/ln	0	1468	0	1468	1468	0	1726	0
Q Serve Time (g_s), s	0.0	37.0	0.0	0.6	0.0	0.0	38.7	0.0
Cycle Q Clear Time (g_c), s	0.0	37.0	0.0	0.6	0.0	0.0	38.7	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	1.00	1.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	533	0	456	58	0	694	0
V/C Ratio (X)	0.00	1.66	0.00	0.06	0.00	0.00	0.96	0.00
Avail Cap (c_a), veh/h	0	533	0	456	360	0	694	0
Upstream Filter (I)	0.00	0.67	0.00	0.97	0.00	0.00	0.87	0.00
Uniform Delay (d1), s/veh	0.0	32.5	0.0	4.1	0.0	0.0	29.8	0.0
Incr Delay (d2), s/veh	0.0	304.2	0.0	0.3	0.0	0.0	24.4	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	336.7	0.0	4.4	0.0	0.0	54.2	0.0
1st-Term Q (Q1), veh/ln	0.0	14.9	0.0	0.2	0.0	0.0	18.4	0.0
2nd-Term Q (Q2), veh/ln	0.0	45.0	0.0	0.0	0.0	0.0	4.7	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	59.9	0.0	0.3	0.0	0.0	23.1	0.0
%ile Storage Ratio (RQ%)	0.00	15.13	0.00	0.03	0.00	0.00	0.12	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	88.4	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	127.2
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	574	27	222	1200	2	111	0	815	5	3	0
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	624	29	241	1304	2	121	0	886	5	3	0
Adj No. of Lanes	1	2	1	1	2	0	2	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	121	1019	456	271	1351	2	1049	627	533	9	68	58
Arrive On Green	0.00	0.31	0.31	0.16	0.40	0.40	0.33	0.00	0.36	0.01	0.04	0.00
Sat Flow, veh/h	1645	3282	1468	1645	3362	5	3191	1727	1468	1645	1727	1468
Grp Volume(v), veh/h	0	624	29	241	636	670	121	0	886	5	3	0
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1641	1726	1596	1727	1468	1645	1727	1468
Q Serve(g_s), s	0.0	16.5	0.6	14.6	38.6	38.7	2.7	0.0	37.0	0.3	0.2	0.0
Cycle Q Clear(g_c), s	0.0	16.5	0.6	14.6	38.6	38.7	2.7	0.0	37.0	0.3	0.2	0.0
Prop In Lane	1.00		1.00	1.00		0.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	121	1019	456	271	660	694	1049	627	533	9	68	58
V/C Ratio(X)	0.00	0.61	0.06	0.89	0.96	0.96	0.12	0.00	1.66	0.59	0.04	0.00
Avail Cap(c_a), veh/h	121	1019	456	306	660	694	1049	627	533	65	423	360
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.97	0.97	0.87	0.87	0.87	0.67	0.00	0.67	1.00	1.00	0.00
Uniform Delay (d), s/veh	0.0	29.9	4.1	41.7	29.8	29.8	23.9	0.0	32.5	50.6	47.2	0.0
Incr Delay (d2), s/veh	0.0	2.7	0.3	21.6	25.2	24.4	0.0	0.0	304.2	50.9	0.3	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	7.8	0.3	8.3	22.1	23.1	1.2	0.0	59.9	0.3	0.1	0.0
LnGrp Delay(d),s/veh	0.0	32.6	4.4	63.3	55.0	54.2	23.9	0.0	336.7	101.5	47.4	0.0
LnGrp LOS		C	A	E	D	D	C		F	F	D	
Approach Vol, veh/h		653			1547			1007			8	
Approach Delay, s/veh		31.3			55.9			299.1			81.2	
Approach LOS		C			E			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	4.5	41.0	20.8	35.7	37.5	8.0	11.5	45.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	4.0	37.0	19.0	26.0	16.0	25.0	4.0	41.0
Max Q Clear Time (g_c+I1), s	2.3	39.0	16.6	18.5	4.7	2.2	0.0	40.7
Green Ext Time (p_c), s	0.0	0.0	0.2	1.8	4.1	0.0	0.0	0.2

Intersection Summary		
HCM 2010 Ctrl Delay	127.2	
HCM 2010 LOS	F	

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	42	1449	58	192	0	114	133	32	437	15	6	17
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	46	1575	63	209	0	124	145	35	475	16	7	18
Adj No. of Lanes	1	2	0	1	2	1	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	874	2208	88	179	2252	1008	356	24	325	71	101	260
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.69	0.69	0.69	0.69	0.00	0.69	0.24	0.24	0.24	0.24	0.24	0.24
Ln Grp Delay, s/veh	5.3	11.5	11.5	158.5	0.0	5.7	35.3	0.0	258.1	52.6	0.0	30.4
Ln Grp LOS	A	B	B	F		A	D		F	D		C
Approach Vol, veh/h		1684			333			655			41	
Approach Delay, s/veh		11.4			101.6			208.8			39.1	
Approach LOS		B			F			F			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Case No		6.0		6.0		6.0		5.0
Phs Duration (G+Y+Rc), s		28.0		74.0		28.0		74.0
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green (Gmax), s		24.0		70.0		24.0		70.0
Max Allow Headway (MAH), s		4.4		5.0		4.4		5.0
Max Q Clear (g_c+I1), s		26.0		32.9		26.0		72.0
Green Ext Time (g_e), s		0.0		19.3		0.0		0.0
Prob of Phs Call (p_c)		1.00		1.00		1.00		1.00
Prob of Max Out (p_x)		1.00		0.00		1.00		0.00

Left-Turn Movement Data								
Assigned Mvmt		5		7		1		3
Mvmt Sat Flow, veh/h		1280		1170		822		283

Through Movement Data								
Assigned Mvmt		2		4		6		8
Mvmt Sat Flow, veh/h		102		3217		429		3282

Right-Turn Movement Data								
Assigned Mvmt		12		14		16		18
Mvmt Sat Flow, veh/h		1382		128		1103		1468

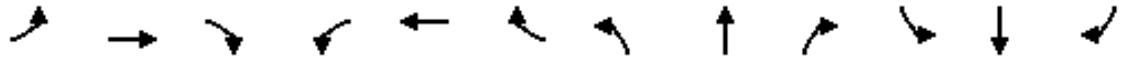
Left Lane Group Data								
Assigned Mvmt	0	5	0	7	0	1	0	3
Lane Assignment								
Lanes in Grp	0	1	0	1	0	1	0	1

Grp Vol (v), veh/h	0	145	0	46	0	16	0	209
Grp Sat Flow (s), veh/h/ln	0	1280	0	1170	0	822	0	283
Q Serve Time (g_s), s	0.0	10.1	0.0	1.3	0.0	0.0	0.0	39.1
Cycle Q Clear Time (g_c), s	0.0	11.4	0.0	1.3	0.0	24.0	0.0	70.0
Perm LT Sat Flow (s_l), veh/h/ln	0	1280	0	1170	0	822	0	283
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	24.0	0.0	70.0	0.0	24.0	0.0	70.0
Perm LT Serve Time (g_u), s	0.0	22.7	0.0	70.0	0.0	0.0	0.0	39.1
Perm LT Q Serve Time (g_ps), s	0.0	10.1	0.0	1.3	0.0	0.0	0.0	39.1
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	356	0	874	0	71	0	179
V/C Ratio (X)	0.00	0.41	0.00	0.05	0.00	0.23	0.00	1.17
Avail Cap (c_a), veh/h	0	356	0	874	0	71	0	179
Upstream Filter (I)	0.00	0.75	0.00	0.44	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	34.8	0.0	5.2	0.0	51.0	0.0	39.1
Incr Delay (d2), s/veh	0.0	0.6	0.0	0.1	0.0	1.6	0.0	119.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	35.3	0.0	5.3	0.0	52.6	0.0	158.5
1st-Term Q (Q1), veh/ln	0.0	3.6	0.0	0.4	0.0	0.4	0.0	5.0
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.0	0.0	0.0	0.0	5.9
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	3.6	0.0	0.4	0.0	0.5	0.0	11.0
%ile Storage Ratio (RQ%)	0.00	0.86	0.00	0.03	0.00	0.02	0.00	1.53
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	0	8
Lane Assignment				T				T
Lanes in Grp	0	0	0	1	0	0	0	2
Grp Vol (v), veh/h	0	0	0	801	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1641	0	0	0	1641
Q Serve Time (g_s), s	0.0	0.0	0.0	30.5	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	30.5	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	1126	0	0	0	2252
V/C Ratio (X)	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	1126	0	0	0	2252
Upstream Filter (I)	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	9.8	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	11.5	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	13.6	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	14.1	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	0	18
Lane Assignment		T+R		T+R		T+R		R
Lanes in Grp	0	1	0	1	0	1	0	1
Grp Vol (v), veh/h	0	510	0	837	0	25	0	124
Grp Sat Flow (s), veh/h/ln	0	1483	0	1705	0	1533	0	1468
Q Serve Time (g_s), s	0.0	24.0	0.0	30.9	0.0	1.3	0.0	3.0
Cycle Q Clear Time (g_c), s	0.0	24.0	0.0	30.9	0.0	1.3	0.0	3.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.93	0.00	0.08	0.00	0.72	0.00	1.00
Lane Grp Cap (c), veh/h	0	349	0	1170	0	361	0	1008
V/C Ratio (X)	0.00	1.46	0.00	0.72	0.00	0.07	0.00	0.12
Avail Cap (c_a), veh/h	0	349	0	1170	0	361	0	1008
Upstream Filter (I)	0.00	0.75	0.00	0.44	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	39.0	0.0	9.9	0.0	30.3	0.0	5.5
Incr Delay (d2), s/veh	0.0	219.1	0.0	1.7	0.0	0.1	0.0	0.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	258.1	0.0	11.5	0.0	30.4	0.0	5.7
1st-Term Q (Q1), veh/ln	0.0	9.8	0.0	14.2	0.0	0.5	0.0	1.2
2nd-Term Q (Q2), veh/ln	0.0	21.2	0.0	0.5	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	31.0	0.0	14.7	0.0	0.6	0.0	1.2
%ile Storage Ratio (RQ%)	0.00	0.04	0.00	0.08	0.00	0.03	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	40.2	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	70.5
HCM 2010 LOS	E



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	42	1449	58	192	0	114	133	32	437	15	6	17
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	46	1575	63	209	0	124	145	35	475	16	7	18
Adj No. of Lanes	1	2	0	1	2	1	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	874	2208	88	179	2252	1008	356	24	325	71	101	260
Arrive On Green	0.69	0.69	0.69	0.69	0.00	0.69	0.24	0.24	0.24	0.24	0.24	0.24
Sat Flow, veh/h	1170	3217	128	283	3282	1468	1280	102	1382	822	429	1103
Grp Volume(v), veh/h	46	801	837	209	0	124	145	0	510	16	0	25
Grp Sat Flow(s),veh/h/ln	1170	1641	1705	283	1641	1468	1280	0	1483	822	0	1533
Q Serve(g_s), s	1.3	30.5	30.9	39.1	0.0	3.0	10.1	0.0	24.0	0.0	0.0	1.3
Cycle Q Clear(g_c), s	1.3	30.5	30.9	70.0	0.0	3.0	11.4	0.0	24.0	24.0	0.0	1.3
Prop In Lane	1.00		0.08	1.00		1.00	1.00		0.93	1.00		0.72
Lane Grp Cap(c), veh/h	874	1126	1170	179	2252	1008	356	0	349	71	0	361
V/C Ratio(X)	0.05	0.71	0.72	1.17	0.00	0.12	0.41	0.00	1.46	0.23	0.00	0.07
Avail Cap(c_a), veh/h	874	1126	1170	179	2252	1008	356	0	349	71	0	361
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.44	0.44	0.44	1.00	0.00	1.00	0.75	0.00	0.75	1.00	0.00	1.00
Uniform Delay (d), s/veh	5.2	9.8	9.9	39.1	0.0	5.5	34.8	0.0	39.0	51.0	0.0	30.3
Incr Delay (d2), s/veh	0.1	1.7	1.7	119.4	0.0	0.3	0.6	0.0	219.1	1.6	0.0	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	14.1	14.7	11.0	0.0	1.2	3.6	0.0	31.0	0.5	0.0	0.6
LnGrp Delay(d),s/veh	5.3	11.5	11.5	158.5	0.0	5.7	35.3	0.0	258.1	52.6	0.0	30.4
LnGrp LOS	A	B	B	F		A	D		F	D		C
Approach Vol, veh/h		1684			333			655			41	
Approach Delay, s/veh		11.4			101.6			208.8			39.1	
Approach LOS		B			F			F			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Phs Duration (G+Y+Rc), s		28.0		74.0		28.0		74.0
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green Setting (Gmax), s		24.0		70.0		24.0		70.0
Max Q Clear Time (g_c+I1), s		26.0		32.9		26.0		72.0
Green Ext Time (p_c), s		0.0		19.3		0.0		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	70.5
HCM 2010 LOS	E

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	134	895	79	146	722	185	103	362	180	105	800	56
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1545	1545	1545	1545	1545	1545	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	146	973	86	159	785	201	112	393	196	114	870	61
Adj No. of Lanes	1	2	1	1	2	1	1	2	0	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	23	23	23	23	23	23	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	206	1036	463	192	1007	451	129	460	226	461	924	413
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.14	0.35	0.35	0.13	0.34	0.34	0.08	0.22	0.22	0.14	0.28	0.28
Ln Grp Delay, s/veh	52.5	48.6	14.0	58.7	33.4	27.7	88.9	48.8	51.0	38.9	47.1	13.4
Ln Grp LOS	D	D	B	E	C	C	F	D	D	D	D	B
Approach Vol, veh/h		1205			1145			701			1045	
Approach Delay, s/veh		46.6			35.9			56.1			44.3	
Approach LOS		D			D			E			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	5	6	8	7
Case No	4.0	2.0	3.0	2.0	2.0	3.0	3.0	2.0
Phs Duration (G+Y+Rc), s	26.0	18.7	40.0	17.3	12.0	32.7	39.0	18.3
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	30.0	7.0	36.0	13.0	8.0	29.0	35.0	14.0
Max Allow Headway (MAH), s	4.1	4.0	4.1	4.1	4.1	4.0	4.1	4.1
Max Q Clear (g_c+I1), s	20.4	5.2	34.7	12.7	8.9	28.4	26.5	11.7
Green Ext Time (g_e), s	1.6	0.9	0.7	0.0	0.0	0.3	3.0	0.3
Prob of Phs Call (p_c)	1.00	0.96	1.00	0.99	0.96	1.00	1.00	0.98
Prob of Max Out (p_x)	0.16	1.00	0.00	1.00	1.00	1.00	0.00	1.00

Left-Turn Movement Data								
Assigned Mvmt		1		3	5			7
Mvmt Sat Flow, veh/h		3191		1471	1645			1471

Through Movement Data								
Assigned Mvmt	2		4			6	8	
Mvmt Sat Flow, veh/h	2133		2935			3282	2935	

Right-Turn Movement Data								
Assigned Mvmt	12		14			16	18	
Mvmt Sat Flow, veh/h	1050		1313			1468	1313	

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	5	0	0	7
Lane Assignment		(Prot)		(Prot)	(Prot)			(Prot)
Lanes in Grp	0	2	0	1	1	0	0	1

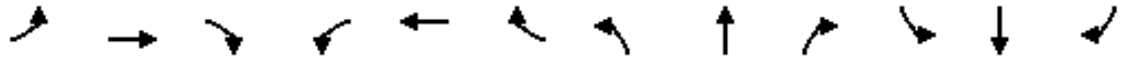
Grp Vol (v), veh/h	0	114	0	159	112	0	0	146
Grp Sat Flow (s), veh/h/ln	0	1596	0	1471	1645	0	0	1471
Q Serve Time (g_s), s	0.0	3.2	0.0	10.7	6.9	0.0	0.0	9.7
Cycle Q Clear Time (g_c), s	0.0	3.2	0.0	10.7	6.9	0.0	0.0	9.7
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	461	0	192	129	0	0	206
V/C Ratio (X)	0.00	0.25	0.00	0.83	0.87	0.00	0.00	0.71
Avail Cap (c_a), veh/h	0	461	0	192	129	0	0	206
Upstream Filter (I)	0.00	0.57	0.00	0.55	1.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	38.7	0.0	43.3	46.5	0.0	0.0	41.9
Incr Delay (d2), s/veh	0.0	0.2	0.0	15.4	42.5	0.0	0.0	10.7
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	38.9	0.0	58.7	88.9	0.0	0.0	52.5
1st-Term Q (Q1), veh/ln	0.0	1.4	0.0	4.4	3.1	0.0	0.0	3.9
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.8	1.5	0.0	0.0	0.6
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.4	0.0	5.2	4.6	0.0	0.0	4.5
%ile Storage Ratio (RQ%)	0.00	0.20	0.00	0.38	0.46	0.00	0.00	0.36
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	0	6	8	0
Lane Assignment	T		T			T	T	
Lanes in Grp	1	0	2	0	0	2	2	0
Grp Vol (v), veh/h	301	0	973	0	0	870	785	0
Grp Sat Flow (s), veh/h/ln	1641	0	1467	0	0	1641	1467	0
Q Serve Time (g_s), s	18.0	0.0	32.7	0.0	0.0	26.4	24.5	0.0
Cycle Q Clear Time (g_c), s	18.0	0.0	32.7	0.0	0.0	26.4	24.5	0.0
Lane Grp Cap (c), veh/h	354	0	1036	0	0	924	1007	0
V/C Ratio (X)	0.85	0.00	0.94	0.00	0.00	0.94	0.78	0.00
Avail Cap (c_a), veh/h	483	0	1036	0	0	933	1007	0
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.00	0.57	0.55	0.00
Uniform Delay (d1), s/veh	38.4	0.0	31.9	0.0	0.0	35.8	30.0	0.0
Incr Delay (d2), s/veh	10.4	0.0	16.7	0.0	0.0	11.3	3.4	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	48.8	0.0	48.6	0.0	0.0	47.1	33.4	0.0
1st-Term Q (Q1), veh/ln	8.1	0.0	13.2	0.0	0.0	12.0	9.9	0.0
2nd-Term Q (Q2), veh/ln	1.0	0.0	2.4	0.0	0.0	1.5	0.5	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	9.1	0.0	15.6	0.0	0.0	13.4	10.4	0.0
%ile Storage Ratio (RQ%)	0.07	0.00	0.01	0.00	0.00	0.02	0.06	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	0	16	18	0
Lane Assignment	T+R		R			R	R	
Lanes in Grp	1	0	1	0	0	1	1	0
Grp Vol (v), veh/h	288	0	86	0	0	61	201	0
Grp Sat Flow (s), veh/h/ln	1542	0	1313	0	0	1468	1313	0
Q Serve Time (g_s), s	18.4	0.0	3.5	0.0	0.0	2.2	12.1	0.0
Cycle Q Clear Time (g_c), s	18.4	0.0	3.5	0.0	0.0	2.2	12.1	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.68	0.00	1.00	0.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	332	0	463	0	0	413	451	0
V/C Ratio (X)	0.87	0.00	0.19	0.00	0.00	0.15	0.45	0.00
Avail Cap (c_a), veh/h	454	0	463	0	0	417	451	0
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.00	0.57	0.55	0.00
Uniform Delay (d1), s/veh	38.6	0.0	13.1	0.0	0.0	13.3	26.0	0.0
Incr Delay (d2), s/veh	12.4	0.0	0.9	0.0	0.0	0.1	1.8	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	51.0	0.0	14.0	0.0	0.0	13.4	27.7	0.0
1st-Term Q (Q1), veh/ln	7.8	0.0	1.3	0.0	0.0	0.9	4.4	0.0
2nd-Term Q (Q2), veh/ln	1.1	0.0	0.1	0.0	0.0	0.0	0.2	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	9.0	0.0	1.4	0.0	0.0	0.9	4.6	0.0
%ile Storage Ratio (RQ%)	0.07	0.00	0.45	0.00	0.00	0.12	0.91	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	44.7
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	134	895	79	146	722	185	103	362	180	105	800	56
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1545	1545	1545	1545	1545	1545	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	146	973	86	159	785	201	112	393	196	114	870	61
Adj No. of Lanes	1	2	1	1	2	1	1	2	0	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	23	23	23	23	23	23	10	10	10	10	10	10
Cap, veh/h	206	1036	463	192	1007	451	129	460	226	461	924	413
Arrive On Green	0.14	0.35	0.35	0.13	0.34	0.34	0.08	0.22	0.22	0.14	0.28	0.28
Sat Flow, veh/h	1471	2935	1313	1471	2935	1313	1645	2133	1050	3191	3282	1468
Grp Volume(v), veh/h	146	973	86	159	785	201	112	301	288	114	870	61
Grp Sat Flow(s),veh/h/ln	1471	1467	1313	1471	1467	1313	1645	1641	1542	1596	1641	1468
Q Serve(g_s), s	9.7	32.7	3.5	10.7	24.5	12.1	6.9	18.0	18.4	3.2	26.4	2.2
Cycle Q Clear(g_c), s	9.7	32.7	3.5	10.7	24.5	12.1	6.9	18.0	18.4	3.2	26.4	2.2
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.68	1.00		1.00
Lane Grp Cap(c), veh/h	206	1036	463	192	1007	451	129	354	332	461	924	413
V/C Ratio(X)	0.71	0.94	0.19	0.83	0.78	0.45	0.87	0.85	0.87	0.25	0.94	0.15
Avail Cap(c_a), veh/h	206	1036	463	192	1007	451	129	483	454	461	933	417
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.55	0.55	0.55	1.00	1.00	1.00	0.57	0.57	0.57
Uniform Delay (d), s/veh	41.9	31.9	13.1	43.3	30.0	26.0	46.5	38.4	38.6	38.7	35.8	13.3
Incr Delay (d2), s/veh	10.7	16.7	0.9	15.4	3.4	1.8	42.5	10.4	12.4	0.2	11.3	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.5	15.6	1.4	5.2	10.4	4.6	4.6	9.1	9.0	1.4	13.4	0.9
LnGrp Delay(d),s/veh	52.5	48.6	14.0	58.7	33.4	27.7	88.9	48.8	51.0	38.9	47.1	13.4
LnGrp LOS	D	D	B	E	C	C	F	D	D	D	D	B
Approach Vol, veh/h		1205			1145			701			1045	
Approach Delay, s/veh		46.6			35.9			56.1			44.3	
Approach LOS		D			D			E			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	18.7	26.0	17.3	40.0	12.0	32.7	18.3	39.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	7.0	30.0	13.0	36.0	8.0	29.0	14.0	35.0
Max Q Clear Time (g_c+I1), s	5.2	20.4	12.7	34.7	8.9	28.4	11.7	26.5
Green Ext Time (p_c), s	0.9	1.6	0.0	0.7	0.0	0.3	0.3	3.0

Intersection Summary	
HCM 2010 Ctrl Delay	44.7
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	129	1112	165	160	664	62	165	564	238	270	908	73
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1545	1545	1900	1545	1545	1545	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	140	1209	179	174	722	67	179	613	259	293	987	79
Adj No. of Lanes	2	2	0	2	2	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	23	23	23	23	23	23	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	769	1250	184	196	840	376	200	836	260	353	1062	331
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.27	0.49	0.49	0.07	0.29	0.29	0.06	0.18	0.18	0.11	0.23	0.23
Ln Grp Delay, s/veh	28.7	38.9	40.4	82.5	37.8	15.0	52.7	40.2	57.6	45.9	40.6	32.5
Ln Grp LOS	C	D	D	F	D	B	D	D	E	D	D	C
Approach Vol, veh/h		1528			963			1051			1359	
Approach Delay, s/veh		38.7			44.3			46.6			41.3	
Approach LOS		D			D			D			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	6	5	8	7
Case No	2.0	3.0	2.0	4.0	3.0	2.0	3.0	2.0
Phs Duration (G+Y+Rc), s	15.3	22.1	11.0	53.6	27.0	10.4	33.2	31.5
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	12.0	17.0	7.0	50.0	23.0	6.0	47.0	10.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.0	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	11.2	20.0	8.2	49.0	22.9	7.7	25.8	5.8
Green Ext Time (g_e), s	0.1	0.0	0.0	0.6	0.0	0.0	3.4	2.6
Prob of Phs Call (p_c)	1.00	1.00	0.99	1.00	1.00	0.99	1.00	0.98
Prob of Max Out (p_x)	1.00	1.00	1.00	1.00	1.00	1.00	0.01	0.99

Left-Turn Movement Data								
Assigned Mvmt	1		3			5		7
Mvmt Sat Flow, veh/h	3191		2854			3191		2854

Through Movement Data								
Assigned Mvmt		2		4	6		8	
Mvmt Sat Flow, veh/h		4715		2567	4715		2935	

Right-Turn Movement Data								
Assigned Mvmt		12		14	16		18	
Mvmt Sat Flow, veh/h		1468		378	1468		1313	

Left Lane Group Data								
Assigned Mvmt	1	0	3	0	0	5	0	7
Lane Assignment	(Prot)		(Prot)			(Prot)		(Prot)
Lanes in Grp	2	0	2	0	0	2	0	2

Grp Vol (v), veh/h	293	0	174	0	0	179	0	140
Grp Sat Flow (s), veh/h/ln	1596	0	1427	0	0	1596	0	1427
Q Serve Time (g_s), s	9.2	0.0	6.2	0.0	0.0	5.7	0.0	3.8
Cycle Q Clear Time (g_c), s	9.2	0.0	6.2	0.0	0.0	5.7	0.0	3.8
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	353	0	196	0	0	200	0	769
V/C Ratio (X)	0.83	0.00	0.89	0.00	0.00	0.90	0.00	0.18
Avail Cap (c_a), veh/h	375	0	196	0	0	200	0	769
Upstream Filter (I)	0.09	0.00	1.00	0.00	0.00	0.09	0.00	0.40
Uniform Delay (d1), s/veh	44.4	0.0	47.1	0.0	0.0	47.5	0.0	28.6
Incr Delay (d2), s/veh	1.4	0.0	35.4	0.0	0.0	5.3	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	45.9	0.0	82.5	0.0	0.0	52.7	0.0	28.7
1st-Term Q (Q1), veh/ln	4.0	0.0	2.4	0.0	0.0	2.5	0.0	1.5
2nd-Term Q (Q2), veh/ln	0.1	0.0	1.0	0.0	0.0	0.1	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	4.1	0.0	3.4	0.0	0.0	2.7	0.0	1.5
%ile Storage Ratio (RQ%)	0.49	0.00	0.21	0.00	0.00	0.37	0.00	0.09
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	6	0	8	0
Lane Assignment		T		T	T		T	
Lanes in Grp	0	3	0	1	3	0	2	0
Grp Vol (v), veh/h	0	613	0	689	987	0	722	0
Grp Sat Flow (s), veh/h/ln	0	1572	0	1467	1572	0	1467	0
Q Serve Time (g_s), s	0.0	12.5	0.0	46.3	20.9	0.0	23.8	0.0
Cycle Q Clear Time (g_c), s	0.0	12.5	0.0	46.3	20.9	0.0	23.8	0.0
Lane Grp Cap (c), veh/h	0	836	0	714	1062	0	840	0
V/C Ratio (X)	0.00	0.73	0.00	0.96	0.93	0.00	0.86	0.00
Avail Cap (c_a), veh/h	0	836	0	719	1063	0	1352	0
Upstream Filter (I)	0.00	0.09	0.00	0.40	0.09	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	39.7	0.0	25.3	38.7	0.0	34.5	0.0
Incr Delay (d2), s/veh	0.0	0.5	0.0	13.6	1.9	0.0	3.4	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	40.2	0.0	38.9	40.6	0.0	37.8	0.0
1st-Term Q (Q1), veh/ln	0.0	5.4	0.0	18.6	9.0	0.0	9.6	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	2.7	0.2	0.0	0.4	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	5.5	0.0	21.3	9.2	0.0	10.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.01	0.00	0.12	0.01	0.00	0.06	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

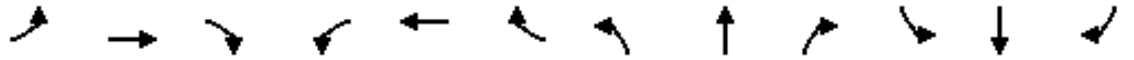
Right Lane Group Data								
Assigned Mvmt	0	12	0	14	16	0	18	0
Lane Assignment		R		T+R	R		R	
Lanes in Grp	0	1	0	1	1	0	1	0
Grp Vol (v), veh/h	0	259	0	699	79	0	67	0
Grp Sat Flow (s), veh/h/ln	0	1468	0	1478	1468	0	1313	0
Q Serve Time (g_s), s	0.0	18.0	0.0	47.0	4.5	0.0	2.9	0.0
Cycle Q Clear Time (g_c), s	0.0	18.0	0.0	47.0	4.5	0.0	2.9	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	0.26	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	260	0	719	331	0	376	0
V/C Ratio (X)	0.00	1.00	0.00	0.97	0.24	0.00	0.18	0.00
Avail Cap (c_a), veh/h	0	260	0	724	331	0	605	0
Upstream Filter (I)	0.00	0.09	0.00	0.40	0.09	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	41.9	0.0	25.5	32.4	0.0	14.8	0.0
Incr Delay (d2), s/veh	0.0	15.7	0.0	14.9	0.2	0.0	0.2	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	57.6	0.0	40.4	32.5	0.0	15.0	0.0
1st-Term Q (Q1), veh/ln	0.0	7.3	0.0	19.0	1.8	0.0	1.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	1.1	0.0	3.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	8.4	0.0	22.0	1.8	0.0	1.1	0.0
%ile Storage Ratio (RQ%)	0.00	1.11	0.00	0.13	0.26	0.00	0.29	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	42.2
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	129	1112	165	160	664	62	165	564	238	270	908	73
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1545	1545	1900	1545	1545	1545	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	140	1209	179	174	722	67	179	613	259	293	987	79
Adj No. of Lanes	2	2	0	2	2	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	23	23	23	23	23	23	10	10	10	10	10	10
Cap, veh/h	769	1250	184	196	840	376	200	836	260	353	1062	331
Arrive On Green	0.27	0.49	0.49	0.07	0.29	0.29	0.06	0.18	0.18	0.11	0.23	0.23
Sat Flow, veh/h	2854	2567	378	2854	2935	1313	3191	4715	1468	3191	4715	1468
Grp Volume(v), veh/h	140	689	699	174	722	67	179	613	259	293	987	79
Grp Sat Flow(s),veh/h/ln	1427	1467	1478	1427	1467	1313	1596	1572	1468	1596	1572	1468
Q Serve(g_s), s	3.8	46.3	47.0	6.2	23.8	2.9	5.7	12.5	18.0	9.2	20.9	4.5
Cycle Q Clear(g_c), s	3.8	46.3	47.0	6.2	23.8	2.9	5.7	12.5	18.0	9.2	20.9	4.5
Prop In Lane	1.00		0.26	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	769	714	719	196	840	376	200	836	260	353	1062	331
V/C Ratio(X)	0.18	0.96	0.97	0.89	0.86	0.18	0.90	0.73	1.00	0.83	0.93	0.24
Avail Cap(c_a), veh/h	769	719	724	196	1352	605	200	836	260	375	1063	331
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.40	0.40	0.40	1.00	1.00	1.00	0.09	0.09	0.09	0.09	0.09	0.09
Uniform Delay (d), s/veh	28.6	25.3	25.5	47.1	34.5	14.8	47.5	39.7	41.9	44.4	38.7	32.4
Incr Delay (d2), s/veh	0.0	13.6	14.9	35.4	3.4	0.2	5.3	0.5	15.7	1.4	1.9	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.5	21.3	22.0	3.4	10.0	1.1	2.7	5.5	8.4	4.1	9.2	1.8
LnGrp Delay(d),s/veh	28.7	38.9	40.4	82.5	37.8	15.0	52.7	40.2	57.6	45.9	40.6	32.5
LnGrp LOS	C	D	D	F	D	B	D	D	E	D	D	C
Approach Vol, veh/h		1528			963			1051			1359	
Approach Delay, s/veh		38.7			44.3			46.6			41.3	
Approach LOS		D			D			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	15.3	22.1	11.0	53.6	10.4	27.0	31.5	33.2
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	11.0	17.0	7.0	50.0	6.0	23.0	10.0	47.0
Max Q Clear Time (g_c+I1), s	11.2	20.0	8.2	49.0	7.7	22.9	5.8	25.8
Green Ext Time (p_c), s	0.1	0.0	0.0	0.6	0.0	0.0	2.6	3.4

Intersection Summary	
HCM 2010 Ctrl Delay	42.2
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	262	790	57	180	800	65	135	29	558	217	30	753
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	285	859	62	196	870	71	147	32	607	236	33	818
Adj No. of Lanes	2	2	1	2	2	1	2	2	2	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	282	901	403	219	837	374	287	1110	874	302	1126	504
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.09	0.27	0.27	0.07	0.25	0.25	0.09	0.34	0.34	0.09	0.34	0.34
Ln Grp Delay, s/veh	103.3	56.0	28.2	73.9	75.3	14.5	45.7	22.6	15.3	51.9	22.2	323.2
Ln Grp LOS	F	E	C	E	F	B	D	C	B	D	C	F
Approach Vol, veh/h		1206			1137			786			1087	
Approach Delay, s/veh		65.7			71.3			21.3			255.1	
Approach LOS		E			E			C			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	6	5	8	7
Case No	2.0	3.0	3.0	2.0	3.0	2.0	3.0	2.0
Phs Duration (G+Y+Rc), s	13.7	38.5	32.0	11.0	39.0	13.2	30.0	13.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	13.0	38.0	28.0	7.0	35.0	16.0	26.0	9.0
Max Allow Headway (MAH), s	4.1	4.3	4.0	4.1	4.3	4.3	4.0	4.1
Max Q Clear (g_c+I1), s	9.4	16.0	28.2	8.2	37.0	6.5	28.0	11.0
Green Ext Time (g_e), s	0.3	3.8	0.0	0.0	0.0	2.7	0.0	0.0
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prob of Max Out (p_x)	1.00	0.01	1.00	1.00	1.00	0.26	0.00	1.00

Left-Turn Movement Data								
Assigned Mvmt	1			3		5		7
Mvmt Sat Flow, veh/h	3191			3191		3191		3191

Through Movement Data								
Assigned Mvmt		2	4		6		8	
Mvmt Sat Flow, veh/h		3282	3282		3282		3282	

Right-Turn Movement Data								
Assigned Mvmt		12	14		16		18	
Mvmt Sat Flow, veh/h		2584	1468		1468		1468	

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	0	5	0	7
Lane Assignment	(Prot)			(Prot)		(Prot)		(Prot)
Lanes in Grp	2	0	0	2	0	2	0	2

Grp Vol (v), veh/h	236	0	0	196	0	147	0	285
Grp Sat Flow (s), veh/h/ln	1596	0	0	1596	0	1596	0	1596
Q Serve Time (g_s), s	7.4	0.0	0.0	6.2	0.0	4.5	0.0	9.0
Cycle Q Clear Time (g_c), s	7.4	0.0	0.0	6.2	0.0	4.5	0.0	9.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	302	0	0	219	0	287	0	282
V/C Ratio (X)	0.78	0.00	0.00	0.89	0.00	0.51	0.00	1.01
Avail Cap (c_a), veh/h	407	0	0	219	0	501	0	282
Upstream Filter (I)	1.00	0.00	0.00	0.72	0.00	0.99	0.00	1.00
Uniform Delay (d1), s/veh	45.1	0.0	0.0	47.1	0.0	44.3	0.0	46.5
Incr Delay (d2), s/veh	6.8	0.0	0.0	26.8	0.0	1.4	0.0	56.8
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Control Delay (d), s/veh	51.9	0.0	0.0	73.9	0.0	45.7	0.0	103.3
1st-Term Q (Q1), veh/ln	3.2	0.0	0.0	2.7	0.0	2.0	0.0	4.0
2nd-Term Q (Q2), veh/ln	0.3	0.0	0.0	0.8	0.0	0.1	0.0	2.2
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	3.5	0.0	0.0	3.6	0.0	2.0	0.0	6.2
%ile Storage Ratio (RQ%)	0.60	0.00	0.00	0.50	0.00	0.29	0.00	0.77
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	6	0	8	0
Lane Assignment		T	T		T		T	
Lanes in Grp	0	2	2	0	2	0	2	0
Grp Vol (v), veh/h	0	32	859	0	33	0	870	0
Grp Sat Flow (s), veh/h/ln	0	1641	1641	0	1641	0	1641	0
Q Serve Time (g_s), s	0.0	0.7	26.2	0.0	0.7	0.0	26.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.7	26.2	0.0	0.7	0.0	26.0	0.0
Lane Grp Cap (c), veh/h	0	1110	901	0	1126	0	837	0
V/C Ratio (X)	0.00	0.03	0.95	0.00	0.03	0.00	1.04	0.00
Avail Cap (c_a), veh/h	0	1223	901	0	1126	0	837	0
Upstream Filter (I)	0.00	0.99	1.00	0.00	1.00	0.00	0.72	0.00
Uniform Delay (d1), s/veh	0.0	22.5	36.4	0.0	22.2	0.0	38.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	19.6	0.0	0.0	0.0	37.3	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	22.6	56.0	0.0	22.2	0.0	75.3	0.0
1st-Term Q (Q1), veh/ln	0.0	0.3	11.8	0.0	0.3	0.0	11.7	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	2.5	0.0	0.0	0.0	4.3	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.3	14.3	0.0	0.3	0.0	16.1	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.12	0.00	0.02	0.00	0.11	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	8.4	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0

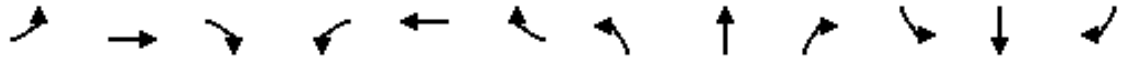
Right Lane Group Data								
Assigned Mvmt	0	12	14	0	16	0	18	0
Lane Assignment		R	R		R		R	
Lanes in Grp	0	2	1	0	1	0	1	0
Grp Vol (v), veh/h	0	607	62	0	818	0	71	0
Grp Sat Flow (s), veh/h/ln	0	1292	1468	0	1468	0	1468	0
Q Serve Time (g_s), s	0.0	14.0	3.3	0.0	35.0	0.0	2.6	0.0
Cycle Q Clear Time (g_c), s	0.0	14.0	3.3	0.0	35.0	0.0	2.6	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	874	403	0	504	0	374	0
V/C Ratio (X)	0.00	0.69	0.15	0.00	1.62	0.00	0.19	0.00
Avail Cap (c_a), veh/h	0	963	403	0	504	0	374	0
Upstream Filter (I)	0.00	0.99	1.00	0.00	1.00	0.00	0.72	0.00
Uniform Delay (d1), s/veh	0.0	13.4	28.0	0.0	33.5	0.0	13.7	0.0
Incr Delay (d2), s/veh	0.0	1.9	0.2	0.0	289.7	0.0	0.8	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	15.3	28.2	0.0	323.2	0.0	14.5	0.0
1st-Term Q (Q1), veh/ln	0.0	4.9	1.3	0.0	14.1	0.0	1.1	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.2	0.0	0.0	40.5	0.0	0.1	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	5.2	1.3	0.0	54.7	0.0	1.1	0.0
%ile Storage Ratio (RQ%)	0.00	0.38	0.22	0.00	13.93	0.00	0.15	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	78.6	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	107.8
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	262	790	57	180	800	65	135	29	558	217	30	753
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	285	859	62	196	870	71	147	32	607	236	33	818
Adj No. of Lanes	2	2	1	2	2	1	2	2	2	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	282	901	403	219	837	374	287	1110	874	302	1126	504
Arrive On Green	0.09	0.27	0.27	0.07	0.25	0.25	0.09	0.34	0.34	0.09	0.34	0.34
Sat Flow, veh/h	3191	3282	1468	3191	3282	1468	3191	3282	2584	3191	3282	1468
Grp Volume(v), veh/h	285	859	62	196	870	71	147	32	607	236	33	818
Grp Sat Flow(s),veh/h/ln	1596	1641	1468	1596	1641	1468	1596	1641	1292	1596	1641	1468
Q Serve(g_s), s	9.0	26.2	3.3	6.2	26.0	2.6	4.5	0.7	14.0	7.4	0.7	35.0
Cycle Q Clear(g_c), s	9.0	26.2	3.3	6.2	26.0	2.6	4.5	0.7	14.0	7.4	0.7	35.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	282	901	403	219	837	374	287	1110	874	302	1126	504
V/C Ratio(X)	1.01	0.95	0.15	0.89	1.04	0.19	0.51	0.03	0.69	0.78	0.03	1.62
Avail Cap(c_a), veh/h	282	901	403	219	837	374	501	1223	963	407	1126	504
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.72	0.72	0.72	0.99	0.99	0.99	1.00	1.00	1.00
Uniform Delay (d), s/veh	46.5	36.4	28.0	47.1	38.0	13.7	44.3	22.5	13.4	45.1	22.2	33.5
Incr Delay (d2), s/veh	56.8	19.6	0.2	26.8	37.3	0.8	1.4	0.0	1.9	6.8	0.0	289.7
Initial Q Delay(d3),s/veh	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.2	14.3	1.3	3.6	16.1	1.1	2.0	0.3	5.2	3.5	0.3	54.7
LnGrp Delay(d),s/veh	103.3	56.0	28.2	73.9	75.3	14.5	45.7	22.6	15.3	51.9	22.2	323.2
LnGrp LOS	F	E	C	E	F	B	D	C	B	D	C	F
Approach Vol, veh/h		1206			1137			786			1087	
Approach Delay, s/veh		65.7			71.3			21.3			255.1	
Approach LOS		E			E			C			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.7	38.5	11.0	32.0	13.2	39.0	13.0	30.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	9.7	34.5	7.0	28.0	9.2	35.0	9.0	26.0
Max Q Clear Time (g_c+I1), s	11.0	28.2	5.3	16.0	8.2	28.2	6.5	37.0
Green Ext Time (p_c), s	0.0	3.8	0.0	0.0	0.3	3.8	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	107.8
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	225	379	103	147	730	88	111	1111	156	129	708	83
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	245	412	112	160	793	96	121	1208	170	140	770	90
Adj No. of Lanes	2	3	1	2	3	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	317	582	181	571	957	298	1058	1418	442	766	987	307
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.10	0.12	0.12	0.18	0.20	0.20	0.33	0.30	0.30	0.24	0.21	0.21
Ln Grp Delay, s/veh	47.9	44.0	44.7	36.5	43.3	35.3	23.7	40.1	30.7	30.9	44.2	36.4
Ln Grp LOS	D	D	D	D	D	D	C	D	C	C	D	D
Approach Vol, veh/h		769			1049			1499			1000	
Approach Delay, s/veh		45.4			41.5			37.8			41.6	
Approach LOS		D			D			D			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	6	5	8	7
Case No	3.0	2.0	3.0	2.0	3.0	2.0	3.0	2.0
Phs Duration (G+Y+Rc), s	34.7	28.5	16.6	22.2	25.4	37.8	24.7	14.1
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	35.0	11.0	28.0	12.0	36.0	10.0	25.0	15.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	26.6	5.6	10.6	6.4	17.7	4.7	18.4	9.6
Green Ext Time (g_e), s	4.1	0.3	2.0	0.8	3.6	0.5	2.3	0.5
Prob of Phs Call (p_c)	1.00	0.98	1.00	0.99	1.00	0.97	1.00	1.00
Prob of Max Out (p_x)	0.54	0.41	0.00	0.48	0.02	0.45	0.53	0.53

Left-Turn Movement Data								
Assigned Mvmt		1		3		5		7
Mvmt Sat Flow, veh/h		3191		3191		3191		3191

Through Movement Data								
Assigned Mvmt	2		4		6		8	
Mvmt Sat Flow, veh/h	4715		4715		4715		4715	

Right-Turn Movement Data								
Assigned Mvmt	12		14		16		18	
Mvmt Sat Flow, veh/h	1468		1468		1468		1468	

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	0	5	0	7
Lane Assignment		(Prot)		(Prot)		(Prot)		(Prot)
Lanes in Grp	0	2	0	2	0	2	0	2

Grp Vol (v), veh/h	0	140	0	160	0	121	0	245
Grp Sat Flow (s), veh/h/ln	0	1596	0	1596	0	1596	0	1596
Q Serve Time (g_s), s	0.0	3.6	0.0	4.4	0.0	2.7	0.0	7.6
Cycle Q Clear Time (g_c), s	0.0	3.6	0.0	4.4	0.0	2.7	0.0	7.6
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	766	0	571	0	1058	0	317
V/C Ratio (X)	0.00	0.18	0.00	0.28	0.00	0.11	0.00	0.77
Avail Cap (c_a), veh/h	0	766	0	571	0	1058	0	469
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	0.66
Uniform Delay (d1), s/veh	0.0	30.8	0.0	36.2	0.0	23.7	0.0	44.8
Incr Delay (d2), s/veh	0.0	0.1	0.0	0.3	0.0	0.0	0.0	3.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	30.9	0.0	36.5	0.0	23.7	0.0	47.9
1st-Term Q (Q1), veh/ln	0.0	1.6	0.0	2.0	0.0	1.2	0.0	3.4
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.6	0.0	2.0	0.0	1.2	0.0	3.5
%ile Storage Ratio (RQ%)	0.00	0.24	0.00	0.32	0.00	0.18	0.00	0.51
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	6	0	8	0
Lane Assignment	T		T		T		T	
Lanes in Grp	3	0	3	0	3	0	3	0
Grp Vol (v), veh/h	1208	0	412	0	770	0	793	0
Grp Sat Flow (s), veh/h/ln	1572	0	1572	0	1572	0	1572	0
Q Serve Time (g_s), s	24.6	0.0	8.6	0.0	15.7	0.0	16.4	0.0
Cycle Q Clear Time (g_c), s	24.6	0.0	8.6	0.0	15.7	0.0	16.4	0.0
Lane Grp Cap (c), veh/h	1418	0	582	0	987	0	957	0
V/C Ratio (X)	0.85	0.00	0.71	0.00	0.78	0.00	0.83	0.00
Avail Cap (c_a), veh/h	1618	0	1294	0	1664	0	1156	0
Upstream Filter (I)	1.00	0.00	0.66	0.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	33.5	0.0	42.9	0.0	38.1	0.0	38.9	0.0
Incr Delay (d2), s/veh	6.6	0.0	1.1	0.0	6.1	0.0	4.4	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	40.1	0.0	44.0	0.0	44.2	0.0	43.3	0.0
1st-Term Q (Q1), veh/ln	10.6	0.0	3.7	0.0	6.8	0.0	7.1	0.0
2nd-Term Q (Q2), veh/ln	0.9	0.0	0.1	0.0	0.6	0.0	0.4	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	11.5	0.0	3.8	0.0	7.4	0.0	7.5	0.0
%ile Storage Ratio (RQ%)	0.07	0.00	0.03	0.00	0.06	0.00	0.15	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	16	0	18	0
Lane Assignment	R		R		R		R	
Lanes in Grp	1	0	1	0	1	0	1	0
Grp Vol (v), veh/h	170	0	112	0	90	0	96	0
Grp Sat Flow (s), veh/h/ln	1468	0	1468	0	1468	0	1468	0
Q Serve Time (g_s), s	9.3	0.0	7.4	0.0	5.3	0.0	5.7	0.0
Cycle Q Clear Time (g_c), s	9.3	0.0	7.4	0.0	5.3	0.0	5.7	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	442	0	181	0	307	0	298	0
V/C Ratio (X)	0.38	0.00	0.62	0.00	0.29	0.00	0.32	0.00
Avail Cap (c_a), veh/h	504	0	403	0	518	0	360	0
Upstream Filter (I)	1.00	0.00	0.66	0.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	28.2	0.0	42.4	0.0	34.0	0.0	34.7	0.0
Incr Delay (d2), s/veh	2.5	0.0	2.3	0.0	2.4	0.0	0.6	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	30.7	0.0	44.7	0.0	36.4	0.0	35.3	0.0
1st-Term Q (Q1), veh/ln	3.8	0.0	3.0	0.0	2.1	0.0	2.3	0.0
2nd-Term Q (Q2), veh/ln	0.3	0.0	0.1	0.0	0.2	0.0	0.1	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	4.1	0.0	3.1	0.0	2.3	0.0	2.4	0.0
%ile Storage Ratio (RQ%)	0.59	0.00	0.44	0.00	0.34	0.00	0.43	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	40.9
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	225	379	103	147	730	88	111	1111	156	129	708	83
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	245	412	112	160	793	96	121	1208	170	140	770	90
Adj No. of Lanes	2	3	1	2	3	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	317	582	181	571	957	298	1058	1418	442	766	987	307
Arrive On Green	0.10	0.12	0.12	0.18	0.20	0.20	0.33	0.30	0.30	0.24	0.21	0.21
Sat Flow, veh/h	3191	4715	1468	3191	4715	1468	3191	4715	1468	3191	4715	1468
Grp Volume(v), veh/h	245	412	112	160	793	96	121	1208	170	140	770	90
Grp Sat Flow(s),veh/h/ln	1596	1572	1468	1596	1572	1468	1596	1572	1468	1596	1572	1468
Q Serve(g_s), s	7.6	8.6	7.4	4.4	16.4	5.7	2.7	24.6	9.3	3.6	15.7	5.3
Cycle Q Clear(g_c), s	7.6	8.6	7.4	4.4	16.4	5.7	2.7	24.6	9.3	3.6	15.7	5.3
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	317	582	181	571	957	298	1058	1418	442	766	987	307
V/C Ratio(X)	0.77	0.71	0.62	0.28	0.83	0.32	0.11	0.85	0.38	0.18	0.78	0.29
Avail Cap(c_a), veh/h	469	1294	403	571	1156	360	1058	1618	504	766	1664	518
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.66	0.66	0.66	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	44.8	42.9	42.4	36.2	38.9	34.7	23.7	33.5	28.2	30.8	38.1	34.0
Incr Delay (d2), s/veh	3.1	1.1	2.3	0.3	4.4	0.6	0.0	6.6	2.5	0.1	6.1	2.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.5	3.8	3.1	2.0	7.5	2.4	1.2	11.5	4.1	1.6	7.4	2.3
LnGrp Delay(d),s/veh	47.9	44.0	44.7	36.5	43.3	35.3	23.7	40.1	30.7	30.9	44.2	36.4
LnGrp LOS	D	D	D	D	D	D	C	D	C	C	D	D
Approach Vol, veh/h		769			1049			1499			1000	
Approach Delay, s/veh		45.4			41.5			37.8			41.6	
Approach LOS		D			D			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	28.5	34.7	22.2	16.6	37.8	25.4	14.1	24.7
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	24.5	30.7	18.2	12.6	33.8	21.4	10.1	20.7
Max Q Clear Time (g_c+I1), s	5.6	26.6	6.4	10.6	4.7	17.7	9.6	18.4
Green Ext Time (p_c), s	0.3	4.1	0.8	2.0	0.5	3.6	0.5	2.3

Intersection Summary	
HCM 2010 Ctrl Delay	40.9
HCM 2010 LOS	D

Intersection	
Int Delay, s/veh	0.1

Movement	NBL	NBT	NBR	SBL	SBT	SBR	SEL	SET	SER	NWL	NWT	NWR
Vol, veh/h	11	179	0	0	864	204	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	0
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	12	195	0	0	939	222	0	0	0	0	0	0

Major/Minor	Major1			Major2						Minor1		
Conflicting Flow All	1161	0	0	195	0	0				1268	1379	195
Stage 1	-	-	-	-	-	-				218	218	-
Stage 2	-	-	-	-	-	-				1050	1161	-
Critical Hdwy	4.2	-	-	4.2	-	-				6.5	6.6	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-				5.5	5.6	-
Critical Hdwy Stg 2	-	-	-	-	-	-				5.5	5.6	-
Follow-up Hdwy	2.29	-	-	2.29	-	-				3.59	4.09	3.39
Pot Cap-1 Maneuver	574	-	-	1331	-	-				179	139	826
Stage 1	-	-	-	-	-	-				800	708	-
Stage 2	-	-	-	-	-	-				325	260	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	574	-	-	1331	-	-				175	0	826
Mov Cap-2 Maneuver	-	-	-	-	-	-				175	0	-
Stage 1	-	-	-	-	-	-				782	0	-
Stage 2	-	-	-	-	-	-				325	0	-

Approach	NB	SB	NW
HCM Control Delay, s	0.7	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBL	NBT	NBR	NWLn1	NWLn2	SBL	SBT	SBR
Capacity (veh/h)	574	-	-	-	-	1331	-	-
HCM Lane V/C Ratio	0.021	-	-	-	-	-	-	-
HCM Control Delay (s)	11.4	0	-	0	0	0	-	-
HCM Lane LOS	B	A	-	A	A	A	-	-
HCM 95th %tile Q(veh)	0.1	-	-	-	-	0	-	-

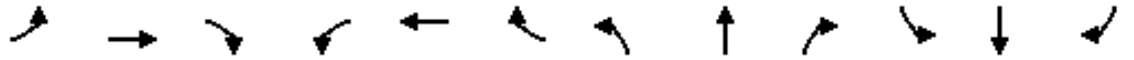
Intersection	
Int Delay, s/veh	1.3

Movement	WBL	WBR	NBL	NBT	NBR	SBL	SBT	SBR	SEL	SER
Vol, veh/h	0	0	0	549	0	259	1361	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	-	-	-	None	-	-	None	-	None
Storage Length	-	-	-	-	-	-	-	-	0	0
Veh in Median Storage, #	0	-	-	0	-	-	0	-	0	-
Grade, %	0	-	-	0	-	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	19	19	28	28	28	28	28	28	19	19
Mvmt Flow	0	0	0	597	0	282	1479	0	0	0

Major/Minor	Minor1		Major1			Major2			Minor2	
Conflicting Flow All	2639	597	1479	0	0	597	0	0	2639	1479
Stage 1	597	-	-	-	-	-	-	-	2042	-
Stage 2	2042	-	-	-	-	-	-	-	597	-
Critical Hdwy	7.29	6.39	4.38	-	-	4.38	-	-	7.29	6.39
Critical Hdwy Stg 1	6.29	-	-	-	-	-	-	-	6.29	-
Critical Hdwy Stg 2	6.29	-	-	-	-	-	-	-	6.29	-
Follow-up Hdwy	3.671	3.471	2.452	-	-	2.452	-	-	3.671	3.471
Pot Cap-1 Maneuver	14	473	385	-	-	864	-	-	14	141
Stage 1	461	-	-	-	-	-	-	-	66	-
Stage 2	66	-	-	-	-	-	-	-	461	-
Platoon blocked, %				-	-		-	-		
Mov Cap-1 Maneuver	14	473	385	-	-	864	-	-	14	141
Mov Cap-2 Maneuver	14	-	-	-	-	-	-	-	14	-
Stage 1	461	-	-	-	-	-	-	-	66	-
Stage 2	66	-	-	-	-	-	-	-	461	-

Approach	WB	NB	SB	SE
HCM Control Delay, s	0	0	1.8	0
HCM LOS	A			A

Minor Lane/Major Mvmt	NBL	NBT	NBR	WBLn1	SELn1	SELn2	SBL	SBT	SBR
Capacity (veh/h)	385	-	-	-	-	-	864	-	-
HCM Lane V/C Ratio	-	-	-	-	-	-	0.326	-	-
HCM Control Delay (s)	0	-	-	0	0	0	11.2	0	-
HCM Lane LOS	A	-	-	A	A	A	B	A	-
HCM 95th %tile Q(veh)	0	-	-	-	-	-	1.4	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	21	87	22	40	242	81	8	83	3	114	197	109
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	23	95	24	43	263	88	9	90	3	124	214	118
Adj No. of Lanes	2	2	0	1	2	1	2	2	1	2	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	60	251	61	53	360	161	1803	2152	963	188	259	220
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.02	0.10	0.10	0.03	0.11	0.11	0.56	0.66	0.66	0.06	0.15	0.15
Ln Grp Delay, s/veh	53.4	44.7	44.9	58.1	44.9	31.7	9.7	6.2	6.1	50.1	62.7	47.2
Ln Grp LOS	D	D	D	E	D	C	A	A	A	D	E	D
Approach Vol, veh/h		142			394			102			456	
Approach Delay, s/veh		46.2			43.4			6.5			55.3	
Approach LOS		D			D			A			E	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	6	5	8	7
Case No	2.0	3.0	2.0	4.0	3.0	2.0	3.0	2.0
Phs Duration (G+Y+Rc), s	10.0	70.9	7.3	13.8	19.3	61.6	15.2	5.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	18.0	25.0	17.0	26.0	29.0	14.0	29.0	14.0
Max Allow Headway (MAH), s	4.1	4.0	4.1	4.1	4.1	4.0	4.1	4.1
Max Q Clear (g_c+I1), s	5.9	3.0	4.6	5.6	14.3	2.1	9.9	2.7
Green Ext Time (g_e), s	0.3	0.3	0.1	0.4	1.0	0.2	1.3	0.3
Prob of Phs Call (p_c)	0.97	1.00	0.70	1.00	1.00	0.23	1.00	0.48
Prob of Max Out (p_x)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Left-Turn Movement Data								
Assigned Mvmt	1		3			5		7
Mvmt Sat Flow, veh/h	3191		1645			3191		3191

Through Movement Data								
Assigned Mvmt		2		4	6		8	
Mvmt Sat Flow, veh/h		3282		2615	1727		3282	

Right-Turn Movement Data								
Assigned Mvmt		12		14	16		18	
Mvmt Sat Flow, veh/h		1468		640	1468		1468	

Left Lane Group Data								
Assigned Mvmt	1	0	3	0	0	5	0	7
Lane Assignment	(Prot)		(Prot)			(Prot)		(Prot)
Lanes in Grp	2	0	1	0	0	2	0	2

Grp Vol (v), veh/h	124	0	43	0	0	9	0	23
Grp Sat Flow (s), veh/h/ln	1596	0	1645	0	0	1596	0	1596
Q Serve Time (g_s), s	3.9	0.0	2.6	0.0	0.0	0.1	0.0	0.7
Cycle Q Clear Time (g_c), s	3.9	0.0	2.6	0.0	0.0	0.1	0.0	0.7
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	188	0	53	0	0	1803	0	60
V/C Ratio (X)	0.66	0.00	0.80	0.00	0.00	0.00	0.00	0.38
Avail Cap (c_a), veh/h	563	0	274	0	0	1803	0	438
Upstream Filter (I)	0.78	0.00	0.33	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	47.0	0.0	49.0	0.0	0.0	9.7	0.0	49.5
Incr Delay (d2), s/veh	3.1	0.0	9.0	0.0	0.0	0.0	0.0	4.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	50.1	0.0	58.1	0.0	0.0	9.7	0.0	53.4
1st-Term Q (Q1), veh/ln	1.7	0.0	1.2	0.0	0.0	0.1	0.0	0.3
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	1.8	0.0	1.3	0.0	0.0	0.1	0.0	0.4
%ile Storage Ratio (RQ%)	0.24	0.00	0.17	0.00	0.00	0.01	0.00	0.07
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	6	0	8	0
Lane Assignment		T		T	T		T	
Lanes in Grp	0	2	0	1	1	0	2	0
Grp Vol (v), veh/h	0	90	0	58	214	0	263	0
Grp Sat Flow (s), veh/h/ln	0	1641	0	1641	1727	0	1641	0
Q Serve Time (g_s), s	0.0	1.0	0.0	3.4	12.3	0.0	7.9	0.0
Cycle Q Clear Time (g_c), s	0.0	1.0	0.0	3.4	12.3	0.0	7.9	0.0
Lane Grp Cap (c), veh/h	0	2152	0	158	259	0	360	0
V/C Ratio (X)	0.00	0.04	0.00	0.37	0.83	0.00	0.73	0.00
Avail Cap (c_a), veh/h	0	2152	0	418	491	0	933	0
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.78	0.00	0.33	0.00
Uniform Delay (d1), s/veh	0.0	6.2	0.0	43.2	42.1	0.0	43.9	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	1.4	20.6	0.0	1.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	6.2	0.0	44.7	62.7	0.0	44.9	0.0
1st-Term Q (Q1), veh/ln	0.0	0.4	0.0	1.5	5.8	0.0	3.6	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.1	1.5	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.5	0.0	1.6	7.3	0.0	3.6	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.01	0.00	0.02	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	16	0	18	0
Lane Assignment		R		T+R	R		R	
Lanes in Grp	0	1	0	1	1	0	1	0
Grp Vol (v), veh/h	0	3	0	61	118	0	88	0
Grp Sat Flow (s), veh/h/ln	0	1468	0	1614	1468	0	1468	0
Q Serve Time (g_s), s	0.0	0.1	0.0	3.6	7.6	0.0	4.9	0.0
Cycle Q Clear Time (g_c), s	0.0	0.1	0.0	3.6	7.6	0.0	4.9	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	0.40	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	963	0	155	220	0	161	0
V/C Ratio (X)	0.00	0.00	0.00	0.39	0.54	0.00	0.55	0.00
Avail Cap (c_a), veh/h	0	963	0	412	417	0	417	0
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.78	0.00	0.33	0.00
Uniform Delay (d1), s/veh	0.0	6.1	0.0	43.3	40.1	0.0	30.8	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	1.6	7.1	0.0	1.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	6.1	0.0	44.9	47.2	0.0	31.7	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	1.6	3.1	0.0	2.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.1	0.4	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	1.7	3.5	0.0	2.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.52	0.00	0.26	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	45.3
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	21	87	22	40	242	81	8	83	3	114	197	109
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	23	95	24	43	263	88	9	90	3	124	214	118
Adj No. of Lanes	2	2	0	1	2	1	2	2	1	2	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	60	251	61	53	360	161	1803	2152	963	188	259	220
Arrive On Green	0.02	0.10	0.10	0.03	0.11	0.11	0.56	0.66	0.66	0.06	0.15	0.15
Sat Flow, veh/h	3191	2615	640	1645	3282	1468	3191	3282	1468	3191	1727	1468
Grp Volume(v), veh/h	23	58	61	43	263	88	9	90	3	124	214	118
Grp Sat Flow(s),veh/h/ln	1596	1641	1614	1645	1641	1468	1596	1641	1468	1596	1727	1468
Q Serve(g_s), s	0.7	3.4	3.6	2.6	7.9	4.9	0.1	1.0	0.1	3.9	12.3	7.6
Cycle Q Clear(g_c), s	0.7	3.4	3.6	2.6	7.9	4.9	0.1	1.0	0.1	3.9	12.3	7.6
Prop In Lane	1.00		0.40	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	60	158	155	53	360	161	1803	2152	963	188	259	220
V/C Ratio(X)	0.38	0.37	0.39	0.80	0.73	0.55	0.00	0.04	0.00	0.66	0.83	0.54
Avail Cap(c_a), veh/h	438	418	412	274	933	417	1803	2152	963	563	491	417
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00	0.78	0.78	0.78
Uniform Delay (d), s/veh	49.5	43.2	43.3	49.0	43.9	30.8	9.7	6.2	6.1	47.0	42.1	40.1
Incr Delay (d2), s/veh	4.0	1.4	1.6	9.0	1.0	1.0	0.0	0.0	0.0	3.1	20.6	7.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	1.6	1.7	1.3	3.6	2.0	0.1	0.5	0.0	1.8	7.3	3.5
LnGrp Delay(d),s/veh	53.4	44.7	44.9	58.1	44.9	31.7	9.7	6.2	6.1	50.1	62.7	47.2
LnGrp LOS	D	D	D	E	D	C	A	A	A	D	E	D
Approach Vol, veh/h		142			394			102			456	
Approach Delay, s/veh		46.2			43.4			6.5			55.3	
Approach LOS		D			D			A			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.0	70.9	7.3	13.8	61.6	19.3	5.9	15.2
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	6.0	25.0	17.0	26.0	14.0	29.0	14.0	29.0
Max Q Clear Time (g_c+I1), s	5.9	3.0	4.6	5.6	2.1	14.3	2.7	9.9
Green Ext Time (p_c), s	0.3	0.3	0.1	0.4	0.2	1.0	0.3	1.3

Intersection Summary	
HCM 2010 Ctrl Delay	45.3
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	103	387	163	316	452	79	46	357	126	67	645	19
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	112	421	177	343	491	86	50	388	137	73	701	21
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	129	329	138	274	534	93	65	407	144	96	589	18
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.08	0.28	0.28	0.17	0.37	0.37	0.04	0.33	0.33	0.06	0.35	0.35
Ln Grp Delay, s/veh	87.0	0.0	177.8	175.1	0.0	45.1	92.1	0.0	61.6	75.8	0.0	134.4
Ln Grp LOS	F		F	F		D	F		E	E		F
Approach Vol, veh/h		710			920			575			795	
Approach Delay, s/veh		163.5			93.6			64.3			129.0	
Approach LOS		F			F			E			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	6	5	7	8
Case No	4.0	2.0	4.0	2.0	4.0	2.0	2.0	4.0
Phs Duration (G+Y+Rc), s	38.0	10.0	33.0	21.0	40.0	8.0	12.0	42.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	35.0	5.0	29.0	17.0	36.0	4.0	8.0	38.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.0	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	33.7	6.5	31.0	19.0	38.0	5.1	8.9	35.4
Green Ext Time (g_e), s	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.1
Prob of Phs Call (p_c)	1.00	0.87	1.00	1.00	1.00	0.76	0.96	1.00
Prob of Max Out (p_x)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt		1		3		5	7	
Mvmt Sat Flow, veh/h		1645		1645		1645	1645	

Through Movement Data								
Assigned Mvmt	2		4		6			8
Mvmt Sat Flow, veh/h	1220		1156		1668			1432

Right-Turn Movement Data								
Assigned Mvmt	12		14		16			18
Mvmt Sat Flow, veh/h	431		486		50			251

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	0	5	7	0
Lane Assignment		(Prot)		(Prot)		(Prot)	(Prot)	
Lanes in Grp	0	1	0	1	0	1	1	0

Grp Vol (v), veh/h	0	73	0	343	0	50	112	0
Grp Sat Flow (s), veh/h/ln	0	1645	0	1645	0	1645	1645	0
Q Serve Time (g_s), s	0.0	4.5	0.0	17.0	0.0	3.1	6.9	0.0
Cycle Q Clear Time (g_c), s	0.0	4.5	0.0	17.0	0.0	3.1	6.9	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	96	0	274	0	65	129	0
V/C Ratio (X)	0.00	0.76	0.00	1.25	0.00	0.78	0.87	0.00
Avail Cap (c_a), veh/h	0	96	0	274	0	65	129	0
Upstream Filter (I)	0.00	1.00	0.00	0.70	0.00	1.00	0.94	0.00
Uniform Delay (d1), s/veh	0.0	47.3	0.0	42.5	0.0	48.6	46.5	0.0
Incr Delay (d2), s/veh	0.0	28.5	0.0	132.6	0.0	43.5	40.5	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	75.8	0.0	175.1	0.0	92.1	87.0	0.0
1st-Term Q (Q1), veh/ln	0.0	2.0	0.0	7.7	0.0	1.4	3.1	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.8	0.0	10.1	0.0	0.8	1.5	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	2.8	0.0	17.8	0.0	2.2	4.6	0.0
%ile Storage Ratio (RQ%)	0.00	0.55	0.00	3.51	0.00	0.43	0.91	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	17.2	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	6	0	0	8
Lane Assignment								
Lanes in Grp	0	0	0	0	0	0	0	0
Grp Vol (v), veh/h	0	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	16	0	0	18
Lane Assignment	T+R		T+R		T+R			T+R
Lanes in Grp	1	0	1	0	1	0	0	1
Grp Vol (v), veh/h	525	0	598	0	722	0	0	577
Grp Sat Flow (s), veh/h/ln	1651	0	1642	0	1718	0	0	1683
Q Serve Time (g_s), s	31.7	0.0	29.0	0.0	36.0	0.0	0.0	33.4
Cycle Q Clear Time (g_c), s	31.7	0.0	29.0	0.0	36.0	0.0	0.0	33.4
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.26	0.00	0.30	0.00	0.03	0.00	0.00	0.15
Lane Grp Cap (c), veh/h	551	0	467	0	607	0	0	627
V/C Ratio (X)	0.95	0.00	1.28	0.00	1.19	0.00	0.00	0.92
Avail Cap (c_a), veh/h	567	0	467	0	607	0	0	627
Upstream Filter (I)	1.00	0.00	0.94	0.00	1.00	0.00	0.00	0.70
Uniform Delay (d1), s/veh	33.2	0.0	36.5	0.0	33.0	0.0	0.0	30.6
Incr Delay (d2), s/veh	28.4	0.0	141.3	0.0	101.4	0.0	0.0	14.5
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	61.6	0.0	177.8	0.0	134.4	0.0	0.0	45.1
1st-Term Q (Q1), veh/ln	14.4	0.0	13.1	0.0	17.0	0.0	0.0	15.4
2nd-Term Q (Q2), veh/ln	4.3	0.0	18.3	0.0	17.1	0.0	0.0	2.5
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	18.8	0.0	31.4	0.0	34.1	0.0	0.0	17.9
%ile Storage Ratio (RQ%)	0.05	0.00	0.16	0.00	0.09	0.00	0.00	0.09
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	32.8	0.0	28.9	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	113.9
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	103	387	163	316	452	79	46	357	126	67	645	19
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	112	421	177	343	491	86	50	388	137	73	701	21
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	129	329	138	274	534	93	65	407	144	96	589	18
Arrive On Green	0.08	0.28	0.28	0.17	0.37	0.37	0.04	0.33	0.33	0.06	0.35	0.35
Sat Flow, veh/h	1645	1156	486	1645	1432	251	1645	1220	431	1645	1668	50
Grp Volume(v), veh/h	112	0	598	343	0	577	50	0	525	73	0	722
Grp Sat Flow(s),veh/h/ln	1645	0	1642	1645	0	1683	1645	0	1651	1645	0	1718
Q Serve(g_s), s	6.9	0.0	29.0	17.0	0.0	33.4	3.1	0.0	31.7	4.5	0.0	36.0
Cycle Q Clear(g_c), s	6.9	0.0	29.0	17.0	0.0	33.4	3.1	0.0	31.7	4.5	0.0	36.0
Prop In Lane	1.00		0.30	1.00		0.15	1.00		0.26	1.00		0.03
Lane Grp Cap(c), veh/h	129	0	467	274	0	627	65	0	551	96	0	607
V/C Ratio(X)	0.87	0.00	1.28	1.25	0.00	0.92	0.78	0.00	0.95	0.76	0.00	1.19
Avail Cap(c_a), veh/h	129	0	467	274	0	627	65	0	567	96	0	607
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.94	0.00	0.94	0.70	0.00	0.70	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	46.5	0.0	36.5	42.5	0.0	30.6	48.6	0.0	33.2	47.3	0.0	33.0
Incr Delay (d2), s/veh	40.5	0.0	141.3	132.6	0.0	14.5	43.5	0.0	28.4	28.5	0.0	101.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.6	0.0	31.4	17.8	0.0	17.9	2.2	0.0	18.8	2.8	0.0	34.1
LnGrp Delay(d),s/veh	87.0	0.0	177.8	175.1	0.0	45.1	92.1	0.0	61.6	75.8	0.0	134.4
LnGrp LOS	F		F	F		D	F		E	E		F
Approach Vol, veh/h		710			920			575			795	
Approach Delay, s/veh		163.5			93.6			64.3			129.0	
Approach LOS		F			F			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.0	38.0	21.0	33.0	8.0	40.0	12.0	42.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	6.0	35.0	17.0	29.0	4.0	36.0	8.0	38.0
Max Q Clear Time (g_c+I1), s	6.5	33.7	19.0	31.0	5.1	38.0	8.9	35.4
Green Ext Time (p_c), s	0.0	0.3	0.0	0.0	0.0	0.0	0.0	1.1

Intersection Summary		
HCM 2010 Ctrl Delay		113.9
HCM 2010 LOS		F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	64	494	29	19	442	452	14	199	27	346	159	73
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1900	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	70	537	32	21	480	491	15	216	29	376	173	79
Adj No. of Lanes	1	1	0	1	1	1	0	1	0	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	161	645	38	149	691	587	63	746	97	590	901	766
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.40	0.40	0.40	0.40	0.40	0.40	0.52	0.52	0.52	0.52	0.52	0.52
Ln Grp Delay, s/veh	40.7	0.0	28.3	42.8	28.3	37.4	14.6	0.0	0.0	22.1	13.2	12.4
Ln Grp LOS	D		C	D	C	D	B			C	B	B
Approach Vol, veh/h		639			992			260			628	
Approach Delay, s/veh		29.7			33.1			14.6			18.4	
Approach LOS		C			C			B			B	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Case No		8.0		6.0		5.0		5.0
Phs Duration (G+Y+Rc), s		57.2		44.8		57.2		44.8
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green (Gmax), s		52.0		42.0		52.0		42.0
Max Allow Headway (MAH), s		4.5		4.3		4.5		4.3
Max Q Clear (g_c+I1), s		10.8		38.3		33.4		35.1
Green Ext Time (g_e), s		4.3		2.4		3.8		4.1
Prob of Phs Call (p_c)		1.00		1.00		1.00		1.00
Prob of Max Out (p_x)		0.00		1.00		0.07		0.81
Left-Turn Movement Data								
Assigned Mvmt		5		7		1		3
Mvmt Sat Flow, veh/h		48		535		1048		778
Through Movement Data								
Assigned Mvmt		2		4		6		8
Mvmt Sat Flow, veh/h		1429		1614		1727		1727
Right-Turn Movement Data								
Assigned Mvmt		12		14		16		18
Mvmt Sat Flow, veh/h		185		96		1468		1468
Left Lane Group Data								
Assigned Mvmt	0	5	0	7	0	1	0	3
Lane Assignment		L+T+R						
Lanes in Grp	0	1	0	1	0	1	0	1

Grp Vol (v), veh/h	0	260	0	70	0	376	0	21
Grp Sat Flow (s), veh/h/ln	0	1663	0	535	0	1048	0	778
Q Serve Time (g_s), s	0.0	0.0	0.0	12.8	0.0	22.6	0.0	2.5
Cycle Q Clear Time (g_c), s	0.0	8.8	0.0	36.3	0.0	31.4	0.0	33.1
Perm LT Sat Flow (s_l), veh/h/ln	0	1146	0	535	0	1048	0	778
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	734	0	0
Perm LT Eff Green (g_p), s	0.0	53.2	0.0	40.8	0.0	53.2	0.0	40.8
Perm LT Serve Time (g_u), s	0.0	47.8	0.0	17.2	0.0	44.4	0.0	10.3
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	12.8	0.0	22.6	0.0	2.5
Time to First Blk (g_f), s	0.0	25.9	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	8.8	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.06	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	905	0	161	0	590	0	149
V/C Ratio (X)	0.00	0.29	0.00	0.44	0.00	0.64	0.00	0.14
Avail Cap (c_a), veh/h	0	905	0	167	0	590	0	158
Upstream Filter (I)	0.00	0.98	0.00	0.09	0.00	0.41	0.00	1.00
Uniform Delay (d1), s/veh	0.0	13.8	0.0	40.5	0.0	20.0	0.0	42.4
Incr Delay (d2), s/veh	0.0	0.8	0.0	0.2	0.0	2.1	0.0	0.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	14.6	0.0	40.7	0.0	22.1	0.0	42.8
1st-Term Q (Q1), veh/ln	0.0	4.1	0.0	1.9	0.0	8.3	0.0	0.5
2nd-Term Q (Q2), veh/ln	0.0	0.2	0.0	0.0	0.0	0.4	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	4.3	0.0	1.9	0.0	8.6	0.0	0.6
%ile Storage Ratio (RQ%)	0.00	0.01	0.00	0.30	0.00	1.26	0.00	0.09
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	0	8
Lane Assignment						T		T
Lanes in Grp	0	0	0	0	0	1	0	1
Grp Vol (v), veh/h	0	0	0	0	0	173	0	480
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	1727	0	1727
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	5.4	0.0	23.6
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	5.4	0.0	23.6
Lane Grp Cap (c), veh/h	0	0	0	0	0	901	0	691
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.70
Avail Cap (c_a), veh/h	0	0	0	0	0	901	0	711
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.41	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	13.0	0.0	25.4
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.2	0.0	2.9
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	13.2	0.0	28.3
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	2.6	0.0	11.2
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	2.6	0.0	11.7
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	0	18
Lane Assignment				T+R		R		R
Lanes in Grp	0	0	0	1	0	1	0	1
Grp Vol (v), veh/h	0	0	0	569	0	79	0	491
Grp Sat Flow (s), veh/h/ln	0	0	0	1710	0	1468	0	1468
Q Serve Time (g_s), s	0.0	0.0	0.0	30.5	0.0	2.8	0.0	30.8
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	30.5	0.0	2.8	0.0	30.8
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.11	0.00	0.06	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	0	0	684	0	766	0	587
V/C Ratio (X)	0.00	0.00	0.00	0.83	0.00	0.10	0.00	0.84
Avail Cap (c_a), veh/h	0	0	0	704	0	766	0	605
Upstream Filter (I)	0.00	0.00	0.00	0.09	0.00	0.41	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	27.5	0.0	12.3	0.0	27.6
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.8	0.0	0.1	0.0	9.8
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	28.3	0.0	12.4	0.0	37.4
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	14.4	0.0	1.1	0.0	12.4
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.6
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	14.5	0.0	1.1	0.0	14.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.08	0.00	0.09	0.00	1.16
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	26.7
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	64	494	29	19	442	452	14	199	27	346	159	73
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1900	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	70	537	32	21	480	491	15	216	29	376	173	79
Adj No. of Lanes	1	1	0	1	1	1	0	1	0	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	161	645	38	149	691	587	63	746	97	590	901	766
Arrive On Green	0.40	0.40	0.40	0.40	0.40	0.40	0.52	0.52	0.52	0.52	0.52	0.52
Sat Flow, veh/h	535	1614	96	778	1727	1468	48	1429	185	1048	1727	1468
Grp Volume(v), veh/h	70	0	569	21	480	491	260	0	0	376	173	79
Grp Sat Flow(s),veh/h/ln	535	0	1710	778	1727	1468	1663	0	0	1048	1727	1468
Q Serve(g_s), s	12.8	0.0	30.5	2.5	23.6	30.8	0.0	0.0	0.0	22.6	5.4	2.8
Cycle Q Clear(g_c), s	36.3	0.0	30.5	33.1	23.6	30.8	8.8	0.0	0.0	31.4	5.4	2.8
Prop In Lane	1.00		0.06	1.00		1.00	0.06		0.11	1.00		1.00
Lane Grp Cap(c), veh/h	161	0	684	149	691	587	905	0	0	590	901	766
V/C Ratio(X)	0.44	0.00	0.83	0.14	0.70	0.84	0.29	0.00	0.00	0.64	0.19	0.10
Avail Cap(c_a), veh/h	167	0	704	158	711	605	905	0	0	590	901	766
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.09	0.00	0.09	1.00	1.00	1.00	0.98	0.00	0.00	0.41	0.41	0.41
Uniform Delay (d), s/veh	40.5	0.0	27.5	42.4	25.4	27.6	13.8	0.0	0.0	20.0	13.0	12.3
Incr Delay (d2), s/veh	0.2	0.0	0.8	0.4	2.9	9.8	0.8	0.0	0.0	2.1	0.2	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.9	0.0	14.5	0.6	11.7	14.0	4.3	0.0	0.0	8.6	2.6	1.1
LnGrp Delay(d),s/veh	40.7	0.0	28.3	42.8	28.3	37.4	14.6	0.0	0.0	22.1	13.2	12.4
LnGrp LOS	D		C	D	C	D	B			C	B	B
Approach Vol, veh/h		639			992			260			628	
Approach Delay, s/veh		29.7			33.1			14.6			18.4	
Approach LOS		C			C			B			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Phs Duration (G+Y+Rc), s		57.2		44.8		57.2		44.8
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green Setting (Gmax), s		52.0		42.0		52.0		42.0
Max Q Clear Time (g_c+I1), s		10.8		38.3		33.4		35.1
Green Ext Time (p_c), s		4.3		2.4		3.8		4.1

Intersection Summary	
HCM 2010 Ctrl Delay	26.7
HCM 2010 LOS	C

Intersection	
Int Delay, s/veh	1.7

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	0	155	1337	0	15	39
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	19	19	19	19	10	10
Mvmt Flow	0	168	1453	0	16	42

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	1453	0	-	0	1621	1453
Stage 1	-	-	-	-	1453	-
Stage 2	-	-	-	-	168	-
Critical Hdwy	4.29	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.371	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	418	-	-	-	108	153
Stage 1	-	-	-	-	206	-
Stage 2	-	-	-	-	843	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	418	-	-	-	108	153
Mov Cap-2 Maneuver	-	-	-	-	108	-
Stage 1	-	-	-	-	206	-
Stage 2	-	-	-	-	843	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	49.7
HCM LOS			E

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	418	-	-	-	137
HCM Lane V/C Ratio	-	-	-	-	0.428
HCM Control Delay (s)	0	-	-	-	49.7
HCM Lane LOS	A	-	-	-	E
HCM 95th %tile Q(veh)	0	-	-	-	1.9

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	WBT	WBR	SEL	SER
Vol, veh/h	0	996	388	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	19	19	19	19	10	10
Mvmt Flow	0	1083	422	0	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	422	0	-	0	1505	422
Stage 1	-	-	-	-	422	-
Stage 2	-	-	-	-	1083	-
Critical Hdwy	4.29	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.371	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1052	-	-	-	128	615
Stage 1	-	-	-	-	645	-
Stage 2	-	-	-	-	314	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1052	-	-	-	128	615
Mov Cap-2 Maneuver	-	-	-	-	128	-
Stage 1	-	-	-	-	645	-
Stage 2	-	-	-	-	314	-

Approach	EB	WB	SE
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SELn1
Capacity (veh/h)	1052	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	-	-	0
HCM Lane LOS	A	-	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	-

Intersection	
Int Delay, s/veh	32

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	36	298	3	15	610	124	3	0	3	144	2	76
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	492	-	-	499	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	22	22	22	22	22	22	10	10	10	10	10	10
Mvmt Flow	39	324	3	16	663	135	3	0	3	157	2	83

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	798	0	0	327	0	0	1209	1234	326	1168	1168	730
Stage 1	-	-	-	-	-	-	404	404	-	763	763	-
Stage 2	-	-	-	-	-	-	805	830	-	405	405	-
Critical Hdwy	4.32	-	-	4.32	-	-	7.2	6.6	6.3	7.2	6.6	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Follow-up Hdwy	2.398	-	-	2.398	-	-	3.59	4.09	3.39	3.59	4.09	3.39
Pot Cap-1 Maneuver	743	-	-	1128	-	-	154	170	697	164	187	409
Stage 1	-	-	-	-	-	-	608	585	-	385	402	-
Stage 2	-	-	-	-	-	-	365	374	-	607	585	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	743	-	-	1128	-	-	116	159	697	~ 155	175	409
Mov Cap-2 Maneuver	-	-	-	-	-	-	116	159	-	~ 155	175	-
Stage 1	-	-	-	-	-	-	576	554	-	365	396	-
Stage 2	-	-	-	-	-	-	286	369	-	572	554	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	1.1	0.2	23.7	186.3
HCM LOS			C	F

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	199	743	-	-	1128	-	-	197
HCM Lane V/C Ratio	0.033	0.053	-	-	0.014	-	-	1.225
HCM Control Delay (s)	23.7	10.1	-	-	8.2	-	-	186.3
HCM Lane LOS	C	B	-	-	A	-	-	F
HCM 95th %tile Q(veh)	0.1	0.2	-	-	0	-	-	12.7

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Intersection	
Int Delay, s/veh	30.4

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	15	537	773	195	145	22
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	104	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	23	23	23	23	10	10
Mvmt Flow	16	584	840	212	158	24

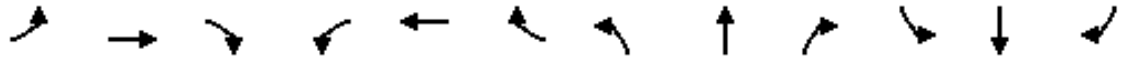
Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	1052	0	-	0	1562	946
Stage 1	-	-	-	-	946	-
Stage 2	-	-	-	-	616	-
Critical Hdwy	4.33	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.407	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	588	-	-	-	~ 118	306
Stage 1	-	-	-	-	365	-
Stage 2	-	-	-	-	524	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	588	-	-	-	~ 115	306
Mov Cap-2 Maneuver	-	-	-	-	~ 115	-
Stage 1	-	-	-	-	365	-
Stage 2	-	-	-	-	510	-

Approach	EB	WB	SB
HCM Control Delay, s	0.3	0	$ 306.3
HCM LOS			F

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	588	-	-	-	125
HCM Lane V/C Ratio	0.028	-	-	-	1.452
HCM Control Delay (s)	11.3	-	-	-	$ 306.3
HCM Lane LOS	B	-	-	-	F
HCM 95th %tile Q(veh)	0.1	-	-	-	12.5

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	39	419	19	5	736	73	27	49	9	45	79	105
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1624	1624	1900	1624	1624	1624	1900	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	42	455	21	5	800	79	29	53	10	49	86	114
Adj No. of Lanes	1	1	0	1	1	1	0	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	17	17	17	17	17	17	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	52	913	42	8	917	779	143	216	34	113	126	141
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.03	0.59	0.59	0.01	0.56	0.56	0.20	0.20	0.20	0.20	0.20	0.20
Ln Grp Delay, s/veh	53.5	0.0	7.5	85.2	14.0	6.1	20.5	0.0	0.0	24.7	0.0	0.0
Ln Grp LOS	D		A	F	B	A	C			C		
Approach Vol, veh/h		518			884			92			249	
Approach Delay, s/veh		11.2			13.7			20.5			24.7	
Approach LOS		B			B			C			C	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6	7	8
Case No		8.0	2.0	4.0		8.0	2.0	3.0
Phs Duration (G+Y+Rc), s		16.1	4.3	39.6		16.1	6.0	37.9
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0	4.0	4.0
Max Green (Gmax), s		20.0	4.0	60.0		20.0	5.0	59.0
Max Allow Headway (MAH), s		4.2	4.1	4.1		4.2	4.1	4.1
Max Q Clear (g_c+I1), s		4.8	2.2	12.2		11.3	3.6	27.4
Green Ext Time (g_e), s		1.1	0.0	6.8		0.8	0.0	6.5
Prob of Phs Call (p_c)		1.00	0.08	1.00		1.00	0.50	1.00
Prob of Max Out (p_x)		0.00	1.00	0.00		0.11	1.00	0.04

Left-Turn Movement Data								
Assigned Mvmt		5	3			1	7	
Mvmt Sat Flow, veh/h		319	1547			204	1547	

Through Movement Data								
Assigned Mvmt		2		4		6		8
Mvmt Sat Flow, veh/h		1070		1540		622		1624

Right-Turn Movement Data								
Assigned Mvmt		12		14		16		18
Mvmt Sat Flow, veh/h		169		71		697		1380

Left Lane Group Data								
Assigned Mvmt	0	5	3	0	0	1	7	0
Lane Assignment		L+T+R	(Prot)			L+T+R	(Prot)	
Lanes in Grp	0	1	1	0	0	1	1	0

Grp Vol (v), veh/h	0	92	5	0	0	249	42	0
Grp Sat Flow (s), veh/h/ln	0	1559	1547	0	0	1523	1547	0
Q Serve Time (g_s), s	0.0	0.0	0.2	0.0	0.0	5.6	1.6	0.0
Cycle Q Clear Time (g_c), s	0.0	2.8	0.2	0.0	0.0	9.3	1.6	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	1201	0	0	0	1360	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	1525	0	0	0	1710	0	0
Perm LT Eff Green (g_p), s	0.0	12.1	0.0	0.0	0.0	12.1	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	2.8	0.0	0.0	0.0	9.4	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	5.6	0.0	0.0
Time to First Blk (g_f), s	0.0	3.9	0.0	0.0	0.0	3.7	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	2.8	0.0	0.0	0.0	3.7	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.32	1.00	0.00	0.00	0.20	1.00	0.00
Lane Grp Cap (c), veh/h	0	394	8	0	0	379	52	0
V/C Ratio (X)	0.00	0.23	0.61	0.00	0.00	0.66	0.81	0.00
Avail Cap (c_a), veh/h	0	582	103	0	0	575	129	0
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	1.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	20.2	29.8	0.0	0.0	22.8	28.8	0.0
Incr Delay (d2), s/veh	0.0	0.3	55.4	0.0	0.0	1.9	24.7	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	20.5	85.2	0.0	0.0	24.7	53.5	0.0
1st-Term Q (Q1), veh/ln	0.0	1.3	0.1	0.0	0.0	3.9	0.7	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.1	0.0	0.0	0.2	0.4	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	1.3	0.2	0.0	0.0	4.1	1.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.01	0.00	0.00	0.01	0.07	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	0	8
Lane Assignment								T
Lanes in Grp	0	0	0	0	0	0	0	1
Grp Vol (v), veh/h	0	0	0	0	0	0	0	800
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	1624
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.4
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.4
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	917
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.87
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	1595
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.8
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	0	18
Lane Assignment				T+R				R
Lanes in Grp	0	0	0	1	0	0	0	1
Grp Vol (v), veh/h	0	0	0	476	0	0	0	79
Grp Sat Flow (s), veh/h/ln	0	0	0	1611	0	0	0	1380
Q Serve Time (g_s), s	0.0	0.0	0.0	10.2	0.0	0.0	0.0	1.6
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	10.2	0.0	0.0	0.0	1.6
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.11	0.00	0.04	0.00	0.46	0.00	1.00
Lane Grp Cap (c), veh/h	0	0	0	955	0	0	0	779
V/C Ratio (X)	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.10
Avail Cap (c_a), veh/h	0	0	0	1610	0	0	0	1356
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	7.1	0.0	0.0	0.0	6.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	7.5	0.0	0.0	0.0	6.1
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	4.5	0.0	0.0	0.0	0.6
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	4.6	0.0	0.0	0.0	0.6
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.03
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	14.9
HCM 2010 LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	39	419	19	5	736	73	27	49	9	45	79	105
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1624	1624	1900	1624	1624	1624	1900	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	42	455	21	5	800	79	29	53	10	49	86	114
Adj No. of Lanes	1	1	0	1	1	1	0	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	17	17	17	17	17	17	10	10	10	10	10	10
Cap, veh/h	52	913	42	8	917	779	143	216	34	113	126	141
Arrive On Green	0.03	0.59	0.59	0.01	0.56	0.56	0.20	0.20	0.20	0.20	0.20	0.20
Sat Flow, veh/h	1547	1540	71	1547	1624	1380	319	1070	169	204	622	697
Grp Volume(v), veh/h	42	0	476	5	800	79	92	0	0	249	0	0
Grp Sat Flow(s),veh/h/ln	1547	0	1611	1547	1624	1380	1559	0	0	1523	0	0
Q Serve(g_s), s	1.6	0.0	10.2	0.2	25.4	1.6	0.0	0.0	0.0	5.6	0.0	0.0
Cycle Q Clear(g_c), s	1.6	0.0	10.2	0.2	25.4	1.6	2.8	0.0	0.0	9.3	0.0	0.0
Prop In Lane	1.00		0.04	1.00		1.00	0.32		0.11	0.20		0.46
Lane Grp Cap(c), veh/h	52	0	955	8	917	779	394	0	0	379	0	0
V/C Ratio(X)	0.81	0.00	0.50	0.61	0.87	0.10	0.23	0.00	0.00	0.66	0.00	0.00
Avail Cap(c_a), veh/h	129	0	1610	103	1595	1356	582	0	0	575	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	28.8	0.0	7.1	29.8	11.2	6.0	20.2	0.0	0.0	22.8	0.0	0.0
Incr Delay (d2), s/veh	24.7	0.0	0.4	55.4	2.8	0.1	0.3	0.0	0.0	1.9	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.0	0.0	4.6	0.2	11.8	0.6	1.3	0.0	0.0	4.1	0.0	0.0
LnGrp Delay(d),s/veh	53.5	0.0	7.5	85.2	14.0	6.1	20.5	0.0	0.0	24.7	0.0	0.0
LnGrp LOS	D		A	F	B	A	C			C		
Approach Vol, veh/h		518			884			92			249	
Approach Delay, s/veh		11.2			13.7			20.5			24.7	
Approach LOS		B			B			C			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6	7	8
Phs Duration (G+Y+Rc), s		16.1	4.3	39.6		16.1	6.0	37.9
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0	4.0	4.0
Max Green Setting (Gmax), s		20.0	4.0	60.0		20.0	5.0	59.0
Max Q Clear Time (g_c+I1), s		4.8	2.2	12.2		11.3	3.6	27.4
Green Ext Time (p_c), s		1.1	0.0	6.8		0.8	0.0	6.5

Intersection Summary	
HCM 2010 Ctrl Delay	14.9
HCM 2010 LOS	B

Intersection	
Intersection Delay, s/veh	41.4
Intersection LOS	E

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Vol, veh/h	0	14	33	3	0	452	129	18	0	4	49	26	0	18	292	16
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	15	15	15	10	15	15	15	10	10	10	10	10	10	10	10
Mvmt Flow	0	15	36	3	0	491	140	20	0	4	53	28	0	20	317	17
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	10.6	60.3	11	18.9
HCM LOS	B	F	B	C

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	5%	28%	75%	6%
Vol Thru, %	62%	66%	22%	90%
Vol Right, %	33%	6%	3%	5%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	79	50	599	326
LT Vol	4	14	452	18
Through Vol	49	33	129	292
RT Vol	26	3	18	16
Lane Flow Rate	86	54	651	354
Geometry Grp	1	1	1	1
Degree of Util (X)	0.16	0.102	1	0.617
Departure Headway (Hd)	6.704	6.755	5.841	6.266
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	537	530	625	578
Service Time	4.729	4.796	3.877	4.279
HCM Lane V/C Ratio	0.16	0.102	1.042	0.612
HCM Control Delay	11	10.6	60.3	18.9
HCM Lane LOS	B	B	F	C
HCM 95th-tile Q	0.6	0.3	15.2	4.2

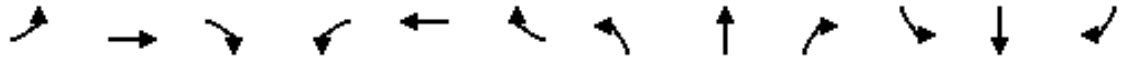
Intersection	
Int Delay, s/veh	1.6

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	12	77	260	31	26	26
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	15	15	15	15	10	10
Mvmt Flow	13	84	283	34	28	28

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	316	0	-	0	409	299
Stage 1	-	-	-	-	299	-
Stage 2	-	-	-	-	110	-
Critical Hdwy	4.25	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.335	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1174	-	-	-	584	722
Stage 1	-	-	-	-	734	-
Stage 2	-	-	-	-	895	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1174	-	-	-	577	722
Mov Cap-2 Maneuver	-	-	-	-	577	-
Stage 1	-	-	-	-	734	-
Stage 2	-	-	-	-	884	-

Approach	EB	WB	SB
HCM Control Delay, s	1.1	0	11.2
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1174	-	-	-	641
HCM Lane V/C Ratio	0.011	-	-	-	0.088
HCM Control Delay (s)	8.1	0	-	-	11.2
HCM Lane LOS	A	A	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0.3



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	223	991	8	305	1094	278	359	2083	343	449	1161	259
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	242	1077	9	332	1189	302	390	2264	373	488	1262	282
Adj No. of Lanes	2	2	1	2	3	0	2	3	0	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	188	837	374	250	1029	261	449	1649	263	344	1740	542
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.06	0.25	0.25	0.08	0.27	0.27	0.14	0.40	0.40	0.11	0.37	0.37
Ln Grp Delay, s/veh	212.0	176.4	14.2	218.9	119.8	130.2	56.7	196.5	227.5	238.2	28.5	26.1
Ln Grp LOS	F	F	B	F	F	F	E	F	F	F	C	C
Approach Vol, veh/h		1328			1823			3027			2032	
Approach Delay, s/veh		181.8			140.7			187.9			78.5	
Approach LOS		F			F			F			E	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	5	6	7	8
Case No	4.0	2.0	3.0	2.0	2.0	3.0	2.0	4.0
Phs Duration (G+Y+Rc), s	45.0	15.0	30.0	12.0	18.4	41.6	10.0	32.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	41.0	11.0	26.0	8.0	15.0	37.0	6.0	28.0
Max Allow Headway (MAH), s	4.1	4.1	4.0	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	43.0	13.0	28.0	10.0	14.2	25.5	8.0	30.0
Green Ext Time (g_e), s	0.0	0.0	0.0	0.0	0.2	7.0	0.0	0.0
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prob of Max Out (p_x)	1.00	1.00	1.00	1.00	1.00	0.60	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt		1		3	5		7	
Mvmt Sat Flow, veh/h		3191		3191	3191		3191	

Through Movement Data								
Assigned Mvmt	2		4			6		8
Mvmt Sat Flow, veh/h	4102		3282			4715		3750

Right-Turn Movement Data								
Assigned Mvmt	12		14			16		18
Mvmt Sat Flow, veh/h	653		1468			1468		953

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	5	0	7	0
Lane Assignment		(Prot)		(Prot)	(Prot)		(Prot)	
Lanes in Grp	0	2	0	2	2	0	2	0

Grp Vol (v), veh/h	0	488	0	332	390	0	242	0
Grp Sat Flow (s), veh/h/ln	0	1596	0	1596	1596	0	1596	0
Q Serve Time (g_s), s	0.0	11.0	0.0	8.0	12.2	0.0	6.0	0.0
Cycle Q Clear Time (g_c), s	0.0	11.0	0.0	8.0	12.2	0.0	6.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	344	0	250	449	0	188	0
V/C Ratio (X)	0.00	1.42	0.00	1.33	0.87	0.00	1.29	0.00
Avail Cap (c_a), veh/h	0	344	0	250	469	0	188	0
Upstream Filter (I)	0.00	0.27	0.00	1.00	0.88	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	45.5	0.0	47.0	42.9	0.0	48.0	0.0
Incr Delay (d2), s/veh	0.0	192.7	0.0	171.9	13.8	0.0	164.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	238.2	0.0	218.9	56.7	0.0	212.0	0.0
1st-Term Q (Q1), veh/ln	0.0	4.8	0.0	3.5	5.4	0.0	2.6	0.0
2nd-Term Q (Q2), veh/ln	0.0	9.2	0.0	6.0	0.9	0.0	4.3	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	14.0	0.0	9.5	6.2	0.0	6.9	0.0
%ile Storage Ratio (RQ%)	0.00	1.98	0.00	1.33	0.93	0.00	0.99	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	36.0	0.0	20.4	0.0	0.0	13.6	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.4	0.0	0.3	0.0	0.0	0.3	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	0	6	0	8
Lane Assignment	T		T			T		T
Lanes in Grp	2	0	2	0	0	3	0	2
Grp Vol (v), veh/h	1717	0	1077	0	0	1262	0	997
Grp Sat Flow (s), veh/h/ln	1572	0	1641	0	0	1572	0	1572
Q Serve Time (g_s), s	41.0	0.0	26.0	0.0	0.0	23.5	0.0	28.0
Cycle Q Clear Time (g_c), s	41.0	0.0	26.0	0.0	0.0	23.5	0.0	28.0
Lane Grp Cap (c), veh/h	1264	0	837	0	0	1740	0	863
V/C Ratio (X)	1.36	0.00	1.29	0.00	0.00	0.73	0.00	1.15
Avail Cap (c_a), veh/h	1264	0	837	0	0	1740	0	863
Upstream Filter (I)	0.88	0.00	1.00	0.00	0.00	0.27	0.00	1.00
Uniform Delay (d1), s/veh	30.5	0.0	38.0	0.0	0.0	27.7	0.0	37.0
Incr Delay (d2), s/veh	166.0	0.0	138.4	0.0	0.0	0.7	0.0	82.8
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	196.5	0.0	176.4	0.0	0.0	28.5	0.0	119.8
1st-Term Q (Q1), veh/ln	17.7	0.0	11.7	0.0	0.0	10.2	0.0	12.1
2nd-Term Q (Q2), veh/ln	29.1	0.0	16.1	0.0	0.0	0.1	0.0	9.9

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	46.9	0.0	27.8	0.0	0.0	10.3	0.0	22.0
%ile Storage Ratio (RQ%)	0.06	0.00	0.14	0.00	0.00	0.03	0.00	0.11
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	113.3	0.0	60.1	0.0	0.0	0.0	0.0	33.4
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.3

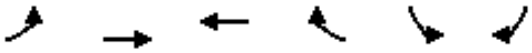
Right Lane Group Data								
Assigned Mvmt	12	0	14	0	0	16	0	18
Lane Assignment	T+R		R			R		T+R
Lanes in Grp	1	0	1	0	0	1	0	1
Grp Vol (v), veh/h	920	0	9	0	0	282	0	494
Grp Sat Flow (s), veh/h/ln	1612	0	1468	0	0	1468	0	1559
Q Serve Time (g_s), s	41.0	0.0	0.3	0.0	0.0	15.3	0.0	28.0
Cycle Q Clear Time (g_c), s	41.0	0.0	0.3	0.0	0.0	15.3	0.0	28.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.41	0.00	1.00	0.00	0.00	1.00	0.00	0.61
Lane Grp Cap (c), veh/h	648	0	374	0	0	542	0	428
V/C Ratio (X)	1.42	0.00	0.02	0.00	0.00	0.52	0.00	1.15
Avail Cap (c_a), veh/h	648	0	374	0	0	542	0	428
Upstream Filter (I)	0.88	0.00	1.00	0.00	0.00	0.27	0.00	1.00
Uniform Delay (d1), s/veh	30.5	0.0	14.2	0.0	0.0	25.1	0.0	37.0
Incr Delay (d2), s/veh	197.0	0.0	0.0	0.0	0.0	1.0	0.0	93.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	227.5	0.0	14.2	0.0	0.0	26.1	0.0	130.2
1st-Term Q (Q1), veh/ln	18.2	0.0	0.1	0.0	0.0	6.2	0.0	12.0
2nd-Term Q (Q2), veh/ln	35.5	0.0	0.0	0.0	0.0	0.1	0.0	11.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	53.6	0.0	0.1	0.0	0.0	6.4	0.0	23.1
%ile Storage Ratio (RQ%)	0.07	0.00	0.02	0.00	0.00	0.02	0.00	0.11
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	68.1	0.0	0.0	0.0	0.0	0.0	0.0	16.6
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.3

Intersection Summary	
HCM 2010 Ctrl Delay	149.3
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	223	991	8	305	1094	278	359	2083	343	449	1161	259
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	242	1077	9	332	1189	302	390	2264	373	488	1262	282
Adj No. of Lanes	2	2	1	2	3	0	2	3	0	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	188	837	374	250	1029	261	449	1649	263	344	1740	542
Arrive On Green	0.06	0.25	0.25	0.08	0.27	0.27	0.14	0.40	0.40	0.11	0.37	0.37
Sat Flow, veh/h	3191	3282	1468	3191	3750	953	3191	4102	653	3191	4715	1468
Grp Volume(v), veh/h	242	1077	9	332	997	494	390	1717	920	488	1262	282
Grp Sat Flow(s),veh/h/ln	1596	1641	1468	1596	1572	1559	1596	1572	1612	1596	1572	1468
Q Serve(g_s), s	6.0	26.0	0.3	8.0	28.0	28.0	12.2	41.0	41.0	11.0	23.5	15.3
Cycle Q Clear(g_c), s	6.0	26.0	0.3	8.0	28.0	28.0	12.2	41.0	41.0	11.0	23.5	15.3
Prop In Lane	1.00		1.00	1.00		0.61	1.00		0.41	1.00		1.00
Lane Grp Cap(c), veh/h	188	837	374	250	863	428	449	1264	648	344	1740	542
V/C Ratio(X)	1.29	1.29	0.02	1.33	1.15	1.15	0.87	1.36	1.42	1.42	0.73	0.52
Avail Cap(c_a), veh/h	188	837	374	250	863	428	469	1264	648	344	1740	542
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	0.88	0.88	0.88	0.27	0.27	0.27
Uniform Delay (d), s/veh	48.0	38.0	14.2	47.0	37.0	37.0	42.9	30.5	30.5	45.5	27.7	25.1
Incr Delay (d2), s/veh	164.0	138.4	0.0	171.9	82.8	93.2	13.8	166.0	197.0	192.7	0.7	1.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.9	27.8	0.1	9.5	22.0	23.1	6.2	46.9	53.6	14.0	10.3	6.4
LnGrp Delay(d),s/veh	212.0	176.4	14.2	218.9	119.8	130.2	56.7	196.5	227.5	238.2	28.5	26.1
LnGrp LOS	F	F	B	F	F	F	E	F	F	F	C	C
Approach Vol, veh/h		1328			1823			3027			2032	
Approach Delay, s/veh		181.8			140.7			187.9			78.5	
Approach LOS		F			F			F			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	15.0	45.0	12.0	30.0	18.4	41.6	10.0	32.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	11.0	41.0	8.0	26.0	15.0	37.0	6.0	28.0
Max Q Clear Time (g_c+I1), s	13.0	43.0	10.0	28.0	14.2	25.5	8.0	30.0
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.2	7.0	0.0	0.0

Intersection Summary		
HCM 2010 Ctrl Delay	149.3	
HCM 2010 LOS	F	



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (veh/h)	112	357	836	838	205	38
Number	7	4	8	18	1	16
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00			1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	122	388	909	911	223	41
Adj No. of Lanes	2	2	2	1	2	2
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Opposing Right Turn Influence	Yes				Yes	
Cap, veh/h	490	2710	2710	1212	306	248
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.83	0.83	0.83	0.83	0.10	0.10
Ln Grp Delay, s/veh	5.2	1.9	2.4	7.2	48.2	42.7
Ln Grp LOS	A	A	A	A	D	D
Approach Vol, veh/h		510	1820		264	
Approach Delay, s/veh		2.7	4.8		47.3	
Approach LOS		A	A		D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	6			4				8
Case No	9.0			6.0				7.0
Phs Duration (G+Y+Rc), s	13.8			88.2				88.2
Change Period (Y+Rc), s	4.0			4.0				4.0
Max Green (Gmax), s	22.0			72.0				72.0
Max Allow Headway (MAH), s	4.1			4.8				4.8
Max Q Clear (g_c+I1), s	8.9			17.7				31.1
Green Ext Time (g_e), s	0.8			26.2				22.9
Prob of Phs Call (p_c)	1.00			1.00				1.00
Prob of Max Out (p_x)	0.00			0.00				0.00

Left-Turn Movement Data								
Assigned Mvmt	1			7				3
Mvmt Sat Flow, veh/h	3191			460				0

Through Movement Data								
Assigned Mvmt	6			4				8
Mvmt Sat Flow, veh/h	0			3368				3368

Right-Turn Movement Data								
Assigned Mvmt	16			14				18
Mvmt Sat Flow, veh/h	2584			0				1468

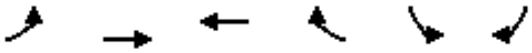
Left Lane Group Data								
Assigned Mvmt	1	0	0	7	0	0	0	3
Lane Assignment								
Lanes in Grp	2	0	0	2	0	0	0	0

Grp Vol (v), veh/h	223	0	0	122	0	0	0	0
Grp Sat Flow (s), veh/h/ln	1596	0	0	230	0	0	0	0
Q Serve Time (g_s), s	6.9	0.0	0.0	8.9	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	6.9	0.0	0.0	15.7	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	1596	0	0	230	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	84.2	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	77.4	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	8.9	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	84.2
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	306	0	0	490	0	0	0	0
V/C Ratio (X)	0.73	0.00	0.00	0.25	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	688	0	0	490	0	0	0	0
Upstream Filter (I)	1.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	44.8	0.0	0.0	4.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	3.3	0.0	0.0	1.2	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	48.2	0.0	0.0	5.2	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	3.1	0.0	0.0	0.6	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	3.2	0.0	0.0	0.6	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.44	0.00	0.00	0.05	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	6	0	0	4	0	0	0	8
Lane Assignment				T				T
Lanes in Grp	0	0	0	2	0	0	0	2
Grp Vol (v), veh/h	0	0	0	388	0	0	0	909
Grp Sat Flow (s), veh/h/ln	0	0	0	1641	0	0	0	1641
Q Serve Time (g_s), s	0.0	0.0	0.0	2.4	0.0	0.0	0.0	6.8
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	2.4	0.0	0.0	0.0	6.8
Lane Grp Cap (c), veh/h	0	0	0	2710	0	0	0	2710
V/C Ratio (X)	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.34
Avail Cap (c_a), veh/h	0	0	0	2710	0	0	0	2710
Upstream Filter (I)	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.72
Uniform Delay (d1), s/veh	0.0	0.0	0.0	1.8	0.0	0.0	0.0	2.1
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	1.9	0.0	0.0	0.0	2.4
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	1.1	0.0	0.0	0.0	3.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	1.1	0.0	0.0	0.0	3.1
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	16	0	0	14	0	0	0	18
Lane Assignment	R							R
Lanes in Grp	2	0	0	0	0	0	0	1
Grp Vol (v), veh/h	41	0	0	0	0	0	0	911
Grp Sat Flow (s), veh/h/ln	1292	0	0	0	0	0	0	1468
Q Serve Time (g_s), s	1.5	0.0	0.0	0.0	0.0	0.0	0.0	29.1
Cycle Q Clear Time (g_c), s	1.5	0.0	0.0	0.0	0.0	0.0	0.0	29.1
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	248	0	0	0	0	0	0	1212
V/C Ratio (X)	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.75
Avail Cap (c_a), veh/h	557	0	0	0	0	0	0	1212
Upstream Filter (I)	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72
Uniform Delay (d1), s/veh	42.4	0.0	0.0	0.0	0.0	0.0	0.0	4.1
Incr Delay (d2), s/veh	0.3	0.0	0.0	0.0	0.0	0.0	0.0	3.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	42.7	0.0	0.0	0.0	0.0	0.0	0.0	7.2
1st-Term Q (Q1), veh/ln	0.5	0.0	0.0	0.0	0.0	0.0	0.0	11.4
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.5	0.0	0.0	0.0	0.0	0.0	0.0	12.4
%ile Storage Ratio (RQ%)	0.07	0.00	0.00	0.00	0.00	0.00	0.00	1.69
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	8.7
HCM 2010 LOS	A



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (veh/h)	112	357	836	838	205	38
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	122	388	909	911	223	41
Adj No. of Lanes	2	2	2	1	2	2
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Cap, veh/h	490	2710	2710	1212	306	248
Arrive On Green	0.83	0.83	0.83	0.83	0.10	0.10
Sat Flow, veh/h	460	3368	3368	1468	3191	2584
Grp Volume(v), veh/h	122	388	909	911	223	41
Grp Sat Flow(s),veh/h/ln	230	1641	1641	1468	1596	1292
Q Serve(g_s), s	8.9	2.4	6.8	29.1	6.9	1.5
Cycle Q Clear(g_c), s	15.7	2.4	6.8	29.1	6.9	1.5
Prop In Lane	1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	490	2710	2710	1212	306	248
V/C Ratio(X)	0.25	0.14	0.34	0.75	0.73	0.17
Avail Cap(c_a), veh/h	490	2710	2710	1212	688	557
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.96	0.96	0.72	0.72	1.00	1.00
Uniform Delay (d), s/veh	4.0	1.8	2.1	4.1	44.8	42.4
Incr Delay (d2), s/veh	1.2	0.1	0.2	3.2	3.3	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.6	1.1	3.1	12.4	3.2	0.5
LnGrp Delay(d),s/veh	5.2	1.9	2.4	7.2	48.2	42.7
LnGrp LOS	A	A	A	A	D	D
Approach Vol, veh/h		510	1820		264	
Approach Delay, s/veh		2.7	4.8		47.3	
Approach LOS		A	A		D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		8
Phs Duration (G+Y+Rc), s				88.2		13.8		88.2
Change Period (Y+Rc), s				4.0		4.0		4.0
Max Green Setting (Gmax), s				72.0		22.0		72.0
Max Q Clear Time (g_c+I1), s				17.7		8.9		31.1
Green Ext Time (p_c), s				26.2		0.8		22.9

Intersection Summary	
HCM 2010 Ctrl Delay	8.7
HCM 2010 LOS	A

Intersection	
Int Delay, s/veh	5.7

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	534	195	129	856	94	55
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	0	-	0	-
Veh in Median Storage, #	0	-	-	0	1	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	580	212	140	930	102	60

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	792	0	1897	686
Stage 1	-	-	-	-	686	-
Stage 2	-	-	-	-	1211	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	794	-	~ 73	434
Stage 1	-	-	-	-	485	-
Stage 2	-	-	-	-	272	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	794	-	~ 60	434
Mov Cap-2 Maneuver	-	-	-	-	163	-
Stage 1	-	-	-	-	485	-
Stage 2	-	-	-	-	224	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.4	61.9
HCM LOS			F

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	212	-	-	794	-
HCM Lane V/C Ratio	0.764	-	-	0.177	-
HCM Control Delay (s)	61.9	-	-	10.5	-
HCM Lane LOS	F	-	-	B	-
HCM 95th %tile Q(veh)	5.3	-	-	0.6	-

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Intersection	
Int Delay, s/veh	2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	54	23	866	160	4	130
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	59	25	941	174	4	141

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1178	1028	0	0	1115	0
Stage 1	1028	-	-	-	-	-
Stage 2	150	-	-	-	-	-
Critical Hdwy	6.5	6.3	-	-	4.2	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	-	-	2.29	-
Pot Cap-1 Maneuver	203	274	-	-	598	-
Stage 1	333	-	-	-	-	-
Stage 2	859	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	202	274	-	-	598	-
Mov Cap-2 Maneuver	202	-	-	-	-	-
Stage 1	333	-	-	-	-	-
Stage 2	853	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	31.3	0	0.3
HCM LOS	D		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	219	598	-
HCM Lane V/C Ratio	-	-	0.382	0.007	-
HCM Control Delay (s)	-	-	31.3	11.1	0
HCM Lane LOS	-	-	D	B	A
HCM 95th %tile Q(veh)	-	-	1.7	0	-

Intersection	
Int Delay, s/veh	1.4

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	27	91	763	11	4	57
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	29	99	829	12	4	62

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	841	0	-	0	993	835
Stage 1	-	-	-	-	835	-
Stage 2	-	-	-	-	158	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	761	-	-	-	263	356
Stage 1	-	-	-	-	413	-
Stage 2	-	-	-	-	851	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	761	-	-	-	252	356
Mov Cap-2 Maneuver	-	-	-	-	252	-
Stage 1	-	-	-	-	413	-
Stage 2	-	-	-	-	817	-

Approach	EB	WB	SB
HCM Control Delay, s	2.3	0	17.8
HCM LOS			C

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	761	-	-	-	347
HCM Lane V/C Ratio	0.039	-	-	-	0.191
HCM Control Delay (s)	9.9	0	-	-	17.8
HCM Lane LOS	A	A	-	-	C
HCM 95th %tile Q(veh)	0.1	-	-	-	0.7

Intersection	
Int Delay, s/veh	3.2

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	19	160	676	21	47	86
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	21	174	735	23	51	93

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	758	0	-	0	961	746
Stage 1	-	-	-	-	746	-
Stage 2	-	-	-	-	215	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	818	-	-	-	275	401
Stage 1	-	-	-	-	455	-
Stage 2	-	-	-	-	802	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	818	-	-	-	267	401
Mov Cap-2 Maneuver	-	-	-	-	267	-
Stage 1	-	-	-	-	455	-
Stage 2	-	-	-	-	780	-

Approach	EB	WB	SB
HCM Control Delay, s	1	0	23.1
HCM LOS			C

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	818	-	-	-	341
HCM Lane V/C Ratio	0.025	-	-	-	0.424
HCM Control Delay (s)	9.5	0	-	-	23.1
HCM Lane LOS	A	A	-	-	C
HCM 95th %tile Q(veh)	0.1	-	-	-	2

Intersection	
Intersection Delay, s/veh	69.2
Intersection LOS	F

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	27	138	60	0	129	533	84	0	131	191	209
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	29	150	65	0	140	579	91	0	142	208	227
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	1	1	1
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	1	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	1	1
HCM Control Delay	29.1	74.9	74.2
HCM LOS	D	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	25%	12%	17%	18%
Vol Thru, %	36%	61%	71%	61%
Vol Right, %	39%	27%	11%	21%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	531	225	746	383
LT Vol	131	27	129	68
Through Vol	191	138	533	233
RT Vol	209	60	84	82
Lane Flow Rate	577	245	811	416
Geometry Grp	1	1	1	1
Degree of Util (X)	1	0.654	1	1
Departure Headway (Hd)	8.658	9.631	8.811	8.775
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	421	377	422	416
Service Time	6.681	7.631	6.835	6.775
HCM Lane V/C Ratio	1.371	0.65	1.922	1
HCM Control Delay	74.2	29.1	74.9	74.6
HCM Lane LOS	F	D	F	F
HCM 95th-tile Q	12.5	4.4	12.4	12.4

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	68	233	82
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10
Mvmt Flow	0	74	253	89
Number of Lanes	0	0	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	1
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	74.6
HCM LOS	F

Lane

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	0	0	0	1029	16	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	0	0	1118	17	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	0	0	1118	0
Stage 1	-	-	-	-	0	-
Stage 2	-	-	-	-	1118	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	-	-	221	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	301	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	221	-
Mov Cap-2 Maneuver	-	-	-	-	221	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	301	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	
HCM LOS			-

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	-	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	-	-	-	0	-
HCM Lane LOS	-	-	-	A	-
HCM 95th %tile Q(veh)	-	-	-	-	-

Intersection	
Int Delay, s/veh	128.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	0	2	2	159	39	615	7	264	16	19	83	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	2	2	173	42	668	8	287	17	21	90	0

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	798	452	90	445	443	296	90	0	0	304	0	0
Stage 1	132	132	-	311	311	-	-	-	-	-	-	-
Stage 2	666	320	-	134	132	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.2	6.6	6.3	4.2	-	-	4.2	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.59	4.09	3.39	2.29	-	-	2.29	-	-
Pot Cap-1 Maneuver	295	491	946	510	497	725	1456	-	-	1213	-	-
Stage 1	853	772	-	683	644	-	-	-	-	-	-	-
Stage 2	436	638	-	851	772	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	21	479	946	497	485	725	1456	-	-	1213	-	-
Mov Cap-2 Maneuver	21	479	-	497	485	-	-	-	-	-	-	-
Stage 1	847	758	-	678	639	-	-	-	-	-	-	-
Stage 2	32	634	-	831	758	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	10.7	190.2	0.2	1.5
HCM LOS	B	F		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1456	-	-	636	651	1213	-	-
HCM Lane V/C Ratio	0.005	-	-	0.007	1.357	0.017	-	-
HCM Control Delay (s)	7.5	0	-	10.7	190.2	8	0	-
HCM Lane LOS	A	A	-	B	F	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0	37.8	0.1	-	-

Intersection	
Int Delay, s/veh	0.9

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	0	44	840	907	39	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	48	913	986	42	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	1899	0	-	0	1454	1406
Stage 1	-	-	-	-	1406	-
Stage 2	-	-	-	-	48	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	295	-	-	-	138	164
Stage 1	-	-	-	-	218	-
Stage 2	-	-	-	-	954	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	295	-	-	-	138	164
Mov Cap-2 Maneuver	-	-	-	-	138	-
Stage 1	-	-	-	-	218	-
Stage 2	-	-	-	-	954	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	42.3
HCM LOS			E

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	295	-	-	-	138
HCM Lane V/C Ratio	-	-	-	-	0.307
HCM Control Delay (s)	0	-	-	-	42.3
HCM Lane LOS	A	-	-	-	E
HCM 95th %tile Q(veh)	0	-	-	-	1.2

Intersection	
Intersection Delay, s/veh	54.4
Intersection LOS	F

Movement	EBU	EBL	EBR	NBU	NBL	NBT	SBU	SBT	SBR
Vol, veh/h	0	59	127	0	556	165	0	446	355
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	64	138	0	604	179	0	485	386
Number of Lanes	0	1	0	0	0	1	0	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	1	1
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	1	1	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	1	0	1
HCM Control Delay	14	60.5	58.2
HCM LOS	B	F	F

Lane	NBLn1	EBLn1	SBLn1
Vol Left, %	77%	32%	0%
Vol Thru, %	23%	0%	56%
Vol Right, %	0%	68%	44%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	721	186	801
LT Vol	556	59	0
Through Vol	165	0	446
RT Vol	0	127	355
Lane Flow Rate	784	202	871
Geometry Grp	1	1	1
Degree of Util (X)	1	0.383	1
Departure Headway (Hd)	5.829	6.821	5.408
Convergence, Y/N	Yes	Yes	Yes
Cap	619	532	670
Service Time	3.905	4.821	3.485
HCM Lane V/C Ratio	1.267	0.38	1.3
HCM Control Delay	60.5	14	58.2
HCM Lane LOS	F	B	F
HCM 95th-tile Q	15.1	1.8	15.7

Intersection	
Intersection Delay, s/veh	59.5
Intersection LOS	F

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Vol, veh/h	0	14	89	13	0	318	706	71	0	0	205	57	0	22	593	90
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	15	97	14	0	346	767	77	0	0	223	62	0	24	645	98
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	15.5	67.9	22.7	67.5
HCM LOS	C	F	C	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	12%	29%	3%
Vol Thru, %	78%	77%	64%	84%
Vol Right, %	22%	11%	6%	13%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	262	116	1095	705
LT Vol	0	14	318	22
Through Vol	205	89	706	593
RT Vol	57	13	71	90
Lane Flow Rate	285	126	1190	766
Geometry Grp	1	1	1	1
Degree of Util (X)	0.618	0.305	1	1
Departure Headway (Hd)	7.814	8.703	7.327	7.238
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	464	415	512	506
Service Time	5.83	6.731	5.358	5.268
HCM Lane V/C Ratio	0.614	0.304	2.324	1.514
HCM Control Delay	22.7	15.5	67.9	67.5
HCM Lane LOS	C	C	F	F
HCM 95th-tile Q	4.1	1.3	13.5	13.6

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	0	0	0	233	125	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	0	0	253	136	0

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	389	136	136	0	-	0
Stage 1	136	-	-	-	-	-
Stage 2	253	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	599	892	1400	-	-	-
Stage 1	871	-	-	-	-	-
Stage 2	771	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	599	892	1400	-	-	-
Mov Cap-2 Maneuver	599	-	-	-	-	-
Stage 1	871	-	-	-	-	-
Stage 2	771	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	0	0	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1400	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	0	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	-	-	-

Intersection	
Int Delay, s/veh	2130.3

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	247	362	209	951	646	103
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	268	393	227	1034	702	112

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	2246	758	814	0	-	0
Stage 1	758	-	-	-	-	-
Stage 2	1488	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	~ 44	394	779	-	-	-
Stage 1	449	-	-	-	-	-
Stage 2	~ 198	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	~ 14	394	779	-	-	-
Mov Cap-2 Maneuver	~ 14	-	-	-	-	-
Stage 1	449	-	-	-	-	-
Stage 2	~ 63	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	$ 8804.1	2.1	0
HCM LOS	F		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	779	-	33	-	-
HCM Lane V/C Ratio	0.292	-	20.059	-	-
HCM Control Delay (s)	11.5	$ 0	8804.1	-	-
HCM Lane LOS	B	A	F	-	-
HCM 95th %tile Q(veh)	1.2	-	81.7	-	-

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Intersection	
Intersection Delay, s/veh	7
Intersection LOS	A

Movement	EBU	EBL	EBR	NBU	NBL	NBT	SBU	SBT	SBR
Vol, veh/h	0	6	5	0	11	0	0	3	12
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	7	5	0	12	0	0	3	13
Number of Lanes	0	1	0	0	0	1	0	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	1	1
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	1	1	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	1	0	1
HCM Control Delay	7	7.4	6.7
HCM LOS	A	A	A

Lane	NBLn1	EBLn1	SBLn1
Vol Left, %	100%	55%	0%
Vol Thru, %	0%	0%	20%
Vol Right, %	0%	45%	80%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	11	11	15
LT Vol	11	6	0
Through Vol	0	0	3
RT Vol	0	5	12
Lane Flow Rate	12	12	16
Geometry Grp	1	1	1
Degree of Util (X)	0.014	0.013	0.016
Departure Headway (Hd)	4.304	3.955	3.621
Convergence, Y/N	Yes	Yes	Yes
Cap	836	908	993
Service Time	2.309	1.965	1.627
HCM Lane V/C Ratio	0.014	0.013	0.016
HCM Control Delay	7.4	7	6.7
HCM Lane LOS	A	A	A
HCM 95th-tile Q	0	0	0

Intersection	
Int Delay, s/veh	0.1

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	0	0	18	587	356	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	0	20	638	387	2

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1065	388	389	0	-	0
Stage 1	388	-	-	-	-	-
Stage 2	677	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	238	643	1127	-	-	-
Stage 1	668	-	-	-	-	-
Stage 2	490	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	232	643	1127	-	-	-
Mov Cap-2 Maneuver	232	-	-	-	-	-
Stage 1	668	-	-	-	-	-
Stage 2	477	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	0	0.2	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1127	-	-	-	-
HCM Lane V/C Ratio	0.017	-	-	-	-
HCM Control Delay (s)	8.3	0	0	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0.1	-	-	-	-

Intersection	
Int Delay, s/veh	195.6

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	387	78	213	36	25	825
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	421	85	232	39	27	897

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1202	251	0	0	271	0
Stage 1	251	-	-	-	-	-
Stage 2	951	-	-	-	-	-
Critical Hdwy	6.5	6.3	-	-	4.2	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	-	-	2.29	-
Pot Cap-1 Maneuver	~ 196	769	-	-	1248	-
Stage 1	772	-	-	-	-	-
Stage 2	~ 363	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	~ 188	769	-	-	1248	-
Mov Cap-2 Maneuver	~ 188	-	-	-	-	-
Stage 1	772	-	-	-	-	-
Stage 2	~ 347	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	$ 657.5	0	0.2
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	215	1248	-
HCM Lane V/C Ratio	-	-	2.351	0.022	-
HCM Control Delay (s)	-	-	$ 657.5	7.9	0
HCM Lane LOS	-	-	F	A	A
HCM 95th %tile Q(veh)	-	-	40.9	0.1	-

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Intersection	
Int Delay, s/veh	7.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	9	516	7	40	2415	26	0	0	4	7	1	11
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	253	-	-	248	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	10	561	8	43	2625	28	0	0	4	8	1	12

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	2653	0	0	568	0	0	3317	3324	565	3312	3314	2639
Stage 1	-	-	-	-	-	-	584	584	-	2726	2726	-
Stage 2	-	-	-	-	-	-	2733	2740	-	586	588	-
Critical Hdwy	4.2	-	-	4.2	-	-	7.2	6.6	6.3	7.2	6.6	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.59	4.09	3.39	3.59	4.09	3.39
Pot Cap-1 Maneuver	147	-	-	966	-	-	5	8	509	~ 5	8	28
Stage 1	-	-	-	-	-	-	484	485	-	27	41	-
Stage 2	-	-	-	-	-	-	26	40	-	483	483	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	147	-	-	966	-	-	2	7	509	~ 5	7	28
Mov Cap-2 Maneuver	-	-	-	-	-	-	2	7	-	~ 5	7	-
Stage 1	-	-	-	-	-	-	451	452	-	25	39	-
Stage 2	-	-	-	-	-	-	14	38	-	446	450	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.5	0.1	12.1	$ 1230.8
HCM LOS			B	F

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	509	147	-	-	966	-	-	10
HCM Lane V/C Ratio	0.009	0.067	-	-	0.045	-	-	2.065
HCM Control Delay (s)	12.1	31.2	-	-	8.9	-	-	$ 1230.8
HCM Lane LOS	B	D	-	-	A	-	-	F
HCM 95th %tile Q(veh)	0	0.2	-	-	0.1	-	-	3.5

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	226	236	9	55	1084	0	83	14	8	1	146	921
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	246	257	10	60	1178	0	90	15	9	1	159	1001
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	137	291	11	492	677	0	69	395	237	2	72	453
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.08	0.18	0.18	0.30	0.39	0.00	0.04	0.39	0.39	0.00	0.35	0.35
Ln Grp Delay, s/veh	440.1	0.0	56.7	30.7	376.2	0.0	271.0	0.0	22.6	213.3	0.0	590.1
Ln Grp LOS	F		E	C	F		F		C	F		F
Approach Vol, veh/h		513			1238			114			1161	
Approach Delay, s/veh		240.5			359.5			218.7			589.8	
Approach LOS		F			F			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	6	5	7	8
Case No	2.0	4.0	4.0	2.0	4.0	2.0	2.0	4.0
Phs Duration (G+Y+Rc), s	4.1	50.9	25.1	39.9	46.0	9.0	14.0	51.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	4.0	43.0	47.0	10.0	42.0	5.0	10.0	47.0
Max Allow Headway (MAH), s	4.1	4.1	4.0	4.0	4.3	4.1	4.1	4.0
Max Q Clear (g_c+I1), s	2.1	3.1	20.2	5.2	44.0	7.0	12.0	49.0
Green Ext Time (g_e), s	0.0	0.4	0.9	2.8	0.0	0.0	0.0	0.0
Prob of Phs Call (p_c)	0.03	1.00	1.00	0.86	1.00	0.95	1.00	1.00
Prob of Max Out (p_x)	1.00	0.00	0.00	0.92	1.00	1.00	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt	1			3		5	7	
Mvmt Sat Flow, veh/h	1645			1645		1645	1645	

Through Movement Data								
Assigned Mvmt		2	4		6			8
Mvmt Sat Flow, veh/h		1013	1652		205			1727

Right-Turn Movement Data								
Assigned Mvmt		12	14		16			18
Mvmt Sat Flow, veh/h		608	64		1294			0

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	0	5	7	0
Lane Assignment	(Prot)			(Prot)		(Prot)	(Prot)	
Lanes in Grp	1	0	0	1	0	1	1	0

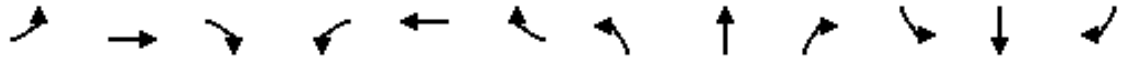
Grp Vol (v), veh/h	1	0	0	60	0	90	246	0
Grp Sat Flow (s), veh/h/ln	1645	0	0	1645	0	1645	1645	0
Q Serve Time (g_s), s	0.1	0.0	0.0	3.2	0.0	5.0	10.0	0.0
Cycle Q Clear Time (g_c), s	0.1	0.0	0.0	3.2	0.0	5.0	10.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	2	0	0	492	0	69	137	0
V/C Ratio (X)	0.56	0.00	0.00	0.12	0.00	1.31	1.79	0.00
Avail Cap (c_a), veh/h	55	0	0	492	0	69	137	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
Uniform Delay (d1), s/veh	59.9	0.0	0.0	30.6	0.0	57.5	55.0	0.0
Incr Delay (d2), s/veh	153.4	0.0	0.0	0.1	0.0	213.5	385.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	213.3	0.0	0.0	30.7	0.0	271.0	440.1	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	1.4	0.0	2.3	4.5	0.0
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.0	0.0	0.0	4.1	14.7	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.1	0.0	0.0	1.5	0.0	6.3	19.2	0.0
%ile Storage Ratio (RQ%)	0.01	0.00	0.00	0.21	0.00	2.80	1.99	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	5.4	27.2	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	6	0	0	8
Lane Assignment								T
Lanes in Grp	0	0	0	0	0	0	0	1
Grp Vol (v), veh/h	0	0	0	0	0	0	0	1178
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	1727
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	677
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.74
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	677
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.5
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	339.7
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	376.2
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.4
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.8

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	86.2
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	125.4
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4

Right Lane Group Data								
Assigned Mvmt	0	12	14	0	16	0	0	18
Lane Assignment		T+R	T+R		T+R			
Lanes in Grp	0	1	1	0	1	0	0	0
Grp Vol (v), veh/h	0	24	267	0	1160	0	0	0
Grp Sat Flow (s), veh/h/ln	0	1620	1716	0	1499	0	0	0
Q Serve Time (g_s), s	0.0	1.1	18.2	0.0	42.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	1.1	18.2	0.0	42.0	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.38	0.04	0.00	0.86	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	633	302	0	525	0	0	0
V/C Ratio (X)	0.00	0.04	0.88	0.00	2.21	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	633	672	0	525	0	0	0
Upstream Filter (I)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	22.6	48.2	0.0	39.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	8.5	0.0	551.1	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	22.6	56.7	0.0	590.1	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.5	8.6	0.0	17.3	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.7	0.0	80.3	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.5	9.3	0.0	97.7	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.02	0.00	0.39	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	158.8	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	422.4
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	226	236	9	55	1084	0	83	14	8	1	146	921
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	246	257	10	60	1178	0	90	15	9	1	159	1001
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	137	291	11	492	677	0	69	395	237	2	72	453
Arrive On Green	0.08	0.18	0.18	0.30	0.39	0.00	0.04	0.39	0.39	0.00	0.35	0.35
Sat Flow, veh/h	1645	1652	64	1645	1727	0	1645	1013	608	1645	205	1294
Grp Volume(v), veh/h	246	0	267	60	1178	0	90	0	24	1	0	1160
Grp Sat Flow(s),veh/h/ln	1645	0	1716	1645	1727	0	1645	0	1620	1645	0	1499
Q Serve(g_s), s	10.0	0.0	18.2	3.2	47.0	0.0	5.0	0.0	1.1	0.1	0.0	42.0
Cycle Q Clear(g_c), s	10.0	0.0	18.2	3.2	47.0	0.0	5.0	0.0	1.1	0.1	0.0	42.0
Prop In Lane	1.00		0.04	1.00		0.00	1.00		0.38	1.00		0.86
Lane Grp Cap(c), veh/h	137	0	302	492	677	0	69	0	633	2	0	525
V/C Ratio(X)	1.79	0.00	0.88	0.12	1.74	0.00	1.31	0.00	0.04	0.56	0.00	2.21
Avail Cap(c_a), veh/h	137	0	672	492	677	0	69	0	633	55	0	525
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	55.0	0.0	48.2	30.6	36.5	0.0	57.5	0.0	22.6	59.9	0.0	39.0
Incr Delay (d2), s/veh	385.1	0.0	8.5	0.1	339.7	0.0	213.5	0.0	0.0	153.4	0.0	551.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	19.2	0.0	9.3	1.5	86.2	0.0	6.3	0.0	0.5	0.1	0.0	97.7
LnGrp Delay(d),s/veh	440.1	0.0	56.7	30.7	376.2	0.0	271.0	0.0	22.6	213.3	0.0	590.1
LnGrp LOS	F		E	C	F		F		C	F		F
Approach Vol, veh/h		513			1238			114			1161	
Approach Delay, s/veh		240.5			359.5			218.7			589.8	
Approach LOS		F			F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	4.1	50.9	39.9	25.1	9.0	46.0	14.0	51.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	4.0	43.0	10.0	47.0	5.0	42.0	10.0	47.0
Max Q Clear Time (g_c+I1), s	2.1	3.1	5.2	20.2	7.0	44.0	12.0	49.0
Green Ext Time (p_c), s	0.0	0.4	2.8	0.9	0.0	0.0	0.0	0.0

Intersection Summary		
HCM 2010 Ctrl Delay	422.4	
HCM 2010 LOS	F	

Intersection	
Int Delay, s/veh	5.4

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	187	540	1716	9	1	53
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	Yield
Storage Length	90	-	-	-	0	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	203	587	1865	10	1	58

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	1875	0	-	0	2863	1870
Stage 1	-	-	-	-	1870	-
Stage 2	-	-	-	-	993	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	302	-	-	-	17	86
Stage 1	-	-	-	-	127	-
Stage 2	-	-	-	-	347	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	302	-	-	-	6	86
Mov Cap-2 Maneuver	-	-	-	-	6	-
Stage 1	-	-	-	-	127	-
Stage 2	-	-	-	-	114	-

Approach	EB	WB	SB
HCM Control Delay, s	9.9	0	118.4
HCM LOS			F

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1	SBLn2
Capacity (veh/h)	302	-	-	-	6	86
HCM Lane V/C Ratio	0.673	-	-	-	0.181	0.67
HCM Control Delay (s)	38.3	-	-	$	708.6	107.3
HCM Lane LOS	E	-	-	-	F	F
HCM 95th %tile Q(veh)	4.5	-	-	-	0.4	3.2

Intersection	
Intersection Delay, s/veh	11.1
Intersection LOS	B

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	2	41	20	0	2	35	38	0	11	112	3
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	2	45	22	0	2	38	41	0	12	122	3
Number of Lanes	0	1	1	0	0	0	1	1	0	1	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	2	2	2
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	2	2	2
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	2	2	2
HCM Control Delay	9.4	9	9.5
HCM LOS	A	A	A

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1	SBLn2
Vol Left, %	100%	0%	100%	0%	5%	0%	100%	0%
Vol Thru, %	0%	97%	0%	67%	95%	0%	0%	99%
Vol Right, %	0%	3%	0%	33%	0%	100%	0%	1%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	11	115	2	61	37	38	67	312
LT Vol	11	0	2	0	2	0	67	0
Through Vol	0	112	0	41	35	0	0	310
RT Vol	0	3	0	20	0	38	0	2
Lane Flow Rate	12	125	2	66	40	41	73	339
Geometry Grp	7	7	7	7	7	7	7	7
Degree of Util (X)	0.02	0.19	0.004	0.109	0.069	0.062	0.116	0.492
Departure Headway (Hd)	6.008	5.486	6.671	5.934	6.178	5.443	5.726	5.22
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	593	650	534	600	576	653	624	688
Service Time	3.776	3.254	4.447	3.709	3.951	3.216	3.478	2.971
HCM Lane V/C Ratio	0.02	0.192	0.004	0.11	0.069	0.063	0.117	0.493
HCM Control Delay	8.9	9.6	9.5	9.4	9.4	8.6	9.2	13
HCM Lane LOS	A	A	A	A	A	A	A	B
HCM 95th-tile Q	0.1	0.7	0	0.4	0.2	0.2	0.4	2.7

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	67	310	2
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10
Mvmt Flow	0	73	337	2
Number of Lanes	0	1	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	2
Conflicting Approach Left	WB
Conflicting Lanes Left	2
Conflicting Approach Right	EB
Conflicting Lanes Right	2
HCM Control Delay	12.3
HCM LOS	B

Lane

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	27	111	0	18	77	15	0	153	26	160	460	73
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	29	121	0	20	84	16	0	166	28	174	500	79
Adj No. of Lanes	1	1	0	1	1	0	1	2	1	1	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	55	219	0	34	161	31	5	433	194	322	1506	674
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.03	0.13	0.00	0.02	0.11	0.11	0.00	0.13	0.13	0.20	0.46	0.46
Ln Grp Delay, s/veh	22.3	14.6	0.0	30.4	0.0	14.9	0.0	12.7	5.7	12.4	5.4	1.0
Ln Grp LOS	C	B		C		B		B	A	B	A	A
Approach Vol, veh/h		150			120			194			753	
Approach Delay, s/veh		16.1			17.5			11.6			6.6	
Approach LOS		B			B			B			A	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	5	6	8	7
Case No	3.0	2.0	2.0	4.0	2.0	3.0	4.0	2.0
Phs Duration (G+Y+Rc), s	8.0	10.0	4.6	7.9	0.0	18.0	7.5	5.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	20.0	22.0	10.0	22.0	9.0	33.0	21.0	11.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.0	0.0	4.1	4.1	4.0
Max Q Clear (g_c+I1), s	3.4	4.9	2.4	4.0	0.0	5.0	3.7	2.5
Green Ext Time (g_e), s	0.6	2.8	0.0	0.4	0.0	3.1	0.2	0.3
Prob of Phs Call (p_c)	1.00	0.77	0.16	0.88	0.00	1.00	0.87	0.22
Prob of Max Out (p_x)	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.02

Left-Turn Movement Data								
Assigned Mvmt		1	3		5			7
Mvmt Sat Flow, veh/h		1645	1645		1645			1645

Through Movement Data								
Assigned Mvmt	2			4		6	8	
Mvmt Sat Flow, veh/h	3282			1727		3282	1411	

Right-Turn Movement Data								
Assigned Mvmt	12			14		16	18	
Mvmt Sat Flow, veh/h	1468			0		1468	269	

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	5	0	0	7
Lane Assignment		(Prot)	(Prot)		(Prot)			(Prot)
Lanes in Grp	0	1	1	0	1	0	0	1

Grp Vol (v), veh/h	0	174	20	0	0	0	0	29
Grp Sat Flow (s), veh/h/ln	0	1645	1645	0	1645	0	0	1645
Q Serve Time (g_s), s	0.0	2.9	0.4	0.0	0.0	0.0	0.0	0.5
Cycle Q Clear Time (g_c), s	0.0	2.9	0.4	0.0	0.0	0.0	0.0	0.5
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	322	34	0	5	0	0	55
V/C Ratio (X)	0.00	0.54	0.59	0.00	0.00	0.00	0.00	0.53
Avail Cap (c_a), veh/h	0	1188	540	0	486	0	0	594
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	11.0	14.8	0.0	0.0	0.0	0.0	14.5
Incr Delay (d2), s/veh	0.0	1.4	15.6	0.0	0.0	0.0	0.0	7.8
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	12.4	30.4	0.0	0.0	0.0	0.0	22.3
1st-Term Q (Q1), veh/ln	0.0	1.3	0.2	0.0	0.0	0.0	0.0	0.2
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.4	0.3	0.0	0.0	0.0	0.0	0.4
%ile Storage Ratio (RQ%)	0.00	0.17	0.05	0.00	0.00	0.00	0.00	0.11
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	0	6	8	0
Lane Assignment	T			T		T		
Lanes in Grp	2	0	0	1	0	2	0	0
Grp Vol (v), veh/h	166	0	0	121	0	500	0	0
Grp Sat Flow (s), veh/h/ln	1641	0	0	1727	0	1641	0	0
Q Serve Time (g_s), s	1.4	0.0	0.0	2.0	0.0	3.0	0.0	0.0
Cycle Q Clear Time (g_c), s	1.4	0.0	0.0	2.0	0.0	3.0	0.0	0.0
Lane Grp Cap (c), veh/h	433	0	0	219	0	1506	0	0
V/C Ratio (X)	0.38	0.00	0.00	0.55	0.00	0.33	0.00	0.00
Avail Cap (c_a), veh/h	2154	0	0	1247	0	3555	0	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00
Uniform Delay (d1), s/veh	12.1	0.0	0.0	12.5	0.0	5.3	0.0	0.0
Incr Delay (d2), s/veh	0.6	0.0	0.0	2.2	0.0	0.1	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	12.7	0.0	0.0	14.6	0.0	5.4	0.0	0.0
1st-Term Q (Q1), veh/ln	0.6	0.0	0.0	0.9	0.0	1.3	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.7	0.0	0.0	1.1	0.0	1.3	0.0	0.0
%ile Storage Ratio (RQ%)	0.02	0.00	0.00	0.04	0.00	0.01	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	0	14	0	16	18	0
Lane Assignment	R					R	T+R	
Lanes in Grp	1	0	0	0	0	1	1	0
Grp Vol (v), veh/h	28	0	0	0	0	79	100	0
Grp Sat Flow (s), veh/h/ln	1468	0	0	0	0	1468	1680	0
Q Serve Time (g_s), s	0.3	0.0	0.0	0.0	0.0	0.4	1.7	0.0
Cycle Q Clear Time (g_c), s	0.3	0.0	0.0	0.0	0.0	0.4	1.7	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	0.00	0.00	1.00	0.16	0.00
Lane Grp Cap (c), veh/h	194	0	0	0	0	674	192	0
V/C Ratio (X)	0.14	0.00	0.00	0.00	0.00	0.12	0.52	0.00
Avail Cap (c_a), veh/h	964	0	0	0	0	1590	1158	0
Upstream Filter (I)	1.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00
Uniform Delay (d1), s/veh	5.3	0.0	0.0	0.0	0.0	1.0	12.7	0.0
Incr Delay (d2), s/veh	0.3	0.0	0.0	0.0	0.0	0.1	2.2	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	5.7	0.0	0.0	0.0	0.0	1.0	14.9	0.0
1st-Term Q (Q1), veh/ln	0.2	0.0	0.0	0.0	0.0	0.4	0.8	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.2	0.0	0.0	0.0	0.0	0.4	0.9	0.0
%ile Storage Ratio (RQ%)	0.03	0.00	0.00	0.00	0.00	0.24	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	9.6
HCM 2010 LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	27	111	0	18	77	15	0	153	26	160	460	73
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	29	121	0	20	84	16	0	166	28	174	500	79
Adj No. of Lanes	1	1	0	1	1	0	1	2	1	1	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	55	219	0	34	161	31	5	433	194	322	1506	674
Arrive On Green	0.03	0.13	0.00	0.02	0.11	0.11	0.00	0.13	0.13	0.20	0.46	0.46
Sat Flow, veh/h	1645	1727	0	1645	1411	269	1645	3282	1468	1645	3282	1468
Grp Volume(v), veh/h	29	121	0	20	0	100	0	166	28	174	500	79
Grp Sat Flow(s),veh/h/ln	1645	1727	0	1645	0	1680	1645	1641	1468	1645	1641	1468
Q Serve(g_s), s	0.5	2.0	0.0	0.4	0.0	1.7	0.0	1.4	0.3	2.9	3.0	0.4
Cycle Q Clear(g_c), s	0.5	2.0	0.0	0.4	0.0	1.7	0.0	1.4	0.3	2.9	3.0	0.4
Prop In Lane	1.00		0.00	1.00		0.16	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	55	219	0	34	0	192	5	433	194	322	1506	674
V/C Ratio(X)	0.53	0.55	0.00	0.59	0.00	0.52	0.00	0.38	0.14	0.54	0.33	0.12
Avail Cap(c_a), veh/h	594	1247	0	540	0	1158	486	2154	964	1188	3555	1590
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	14.5	12.5	0.0	14.8	0.0	12.7	0.0	12.1	5.3	11.0	5.3	1.0
Incr Delay (d2), s/veh	7.8	2.2	0.0	15.6	0.0	2.2	0.0	0.6	0.3	1.4	0.1	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	1.1	0.0	0.3	0.0	0.9	0.0	0.7	0.2	1.4	1.3	0.4
LnGrp Delay(d),s/veh	22.3	14.6	0.0	30.4	0.0	14.9	0.0	12.7	5.7	12.4	5.4	1.0
LnGrp LOS	C	B		C		B		B	A	B	A	A
Approach Vol, veh/h		150			120			194			753	
Approach Delay, s/veh		16.1			17.5			11.6			6.6	
Approach LOS		B			B			B			A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.0	8.0	4.6	7.9	0.0	18.0	5.0	7.5
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	22.0	20.0	10.0	22.0	9.0	33.0	11.0	21.0
Max Q Clear Time (g_c+I1), s	4.9	3.4	2.4	4.0	0.0	5.0	2.5	3.7
Green Ext Time (p_c), s	2.8	0.6	0.0	0.4	0.0	3.1	0.3	0.2

Intersection Summary	
HCM 2010 Ctrl Delay	9.6
HCM 2010 LOS	A

Intersection	
Int Delay, s/veh	0.5

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	0	20	0	109	306	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	28	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	22	0	118	333	0

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	451	333	333	0	-	0
Stage 1	333	-	-	-	-	-
Stage 2	118	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	552	691	1183	-	-	-
Stage 1	709	-	-	-	-	-
Stage 2	888	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	552	691	1183	-	-	-
Mov Cap-2 Maneuver	552	-	-	-	-	-
Stage 1	709	-	-	-	-	-
Stage 2	888	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	10.4	0	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1183	-	691	-	-
HCM Lane V/C Ratio	-	-	0.031	-	-
HCM Control Delay (s)	0	-	10.4	-	-
HCM Lane LOS	A	-	B	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-

Intersection	
Int Delay, s/veh	4.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	31	1	28	8	9	14	147	235	30	62	264	374
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	34	1	30	9	10	15	160	255	33	67	287	407

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	1229	1233	490	1232	1419	272	693	0	0	288	0	0
Stage 1	625	625	-	591	591	-	-	-	-	-	-	-
Stage 2	604	608	-	641	828	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.2	6.6	6.3	4.2	-	-	4.2	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.59	4.09	3.39	2.29	-	-	2.29	-	-
Pot Cap-1 Maneuver	149	171	562	148	131	748	866	-	-	1229	-	-
Stage 1	459	465	-	480	482	-	-	-	-	-	-	-
Stage 2	472	473	-	450	375	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	104	120	562	107	92	748	866	-	-	1229	-	-
Mov Cap-2 Maneuver	104	120	-	107	92	-	-	-	-	-	-	-
Stage 1	358	420	-	374	375	-	-	-	-	-	-	-
Stage 2	351	368	-	384	339	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	39.4	33	3.6	0.7
HCM LOS	E	D		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	866	-	-	168	162	1229	-	-
HCM Lane V/C Ratio	0.185	-	-	0.388	0.208	0.055	-	-
HCM Control Delay (s)	10.1	0	-	39.4	33	8.1	0	-
HCM Lane LOS	B	A	-	E	D	A	A	-
HCM 95th %tile Q(veh)	0.7	-	-	1.7	0.8	0.2	-	-

Intersection	
Intersection Delay, s/veh	45.6
Intersection LOS	E

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	15	14	22	0	265	31	567	0	24	246	40
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	16	15	24	0	288	34	616	0	26	267	43
Number of Lanes	0	0	1	0	0	0	1	1	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	2	1	1
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	1	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	1	2
HCM Control Delay	13	52.9	24.7
HCM LOS	B	F	C

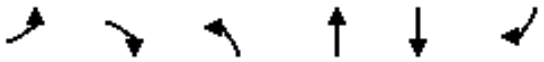
Lane	NBLn1	EBLn1	WBLn1	WBLn2	SBLn1
Vol Left, %	8%	29%	90%	0%	24%
Vol Thru, %	79%	27%	10%	0%	76%
Vol Right, %	13%	43%	0%	100%	1%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	310	51	296	567	433
LT Vol	24	15	265	0	103
Through Vol	246	14	31	0	327
RT Vol	40	22	0	567	3
Lane Flow Rate	337	55	322	616	471
Geometry Grp	2	5	7	7	2
Degree of Util (X)	0.682	0.134	0.717	1	0.923
Departure Headway (Hd)	7.29	8.679	8.022	6.842	7.063
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	495	416	450	530	513
Service Time	5.347	6.679	5.806	4.626	5.113
HCM Lane V/C Ratio	0.681	0.132	0.716	1.162	0.918
HCM Control Delay	24.7	13	28.8	65.5	49.8
HCM Lane LOS	C	B	D	F	E
HCM 95th-tile Q	5.1	0.5	5.6	14	11

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	103	327	3
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10
Mvmt Flow	0	112	355	3
Number of Lanes	0	0	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	2
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	49.8
HCM LOS	E

Lane



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Volume (veh/h)	224	15	43	491	505	1239
Number	7	14	5	2	6	16
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00	1.00	1.00			1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1900	1727	1727	1727	1727
Adj Flow Rate, veh/h	243	16	47	534	549	1347
Adj No. of Lanes	0	0	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	10	10	10	10
Opposing Right Turn Influence	Yes		Yes			
Cap, veh/h	227	15	58	1343	1218	1035
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.15	0.15	0.04	0.78	0.70	0.70
Ln Grp Delay, s/veh	124.4	0.0	103.3	4.1	7.1	158.8
Ln Grp LOS	F		F	A	A	F
Approach Vol, veh/h	260			581	1896	
Approach Delay, s/veh	124.4			12.1	114.9	
Approach LOS	F			B	F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2		4	6	5		
Case No		4.0		12.0	7.0	2.0		
Phs Duration (G+Y+Rc), s		87.8		20.0	80.0	7.8		
Change Period (Y+Rc), s		4.0		4.0	4.0	4.0		
Max Green (Gmax), s		84.0		16.0	76.0	4.0		
Max Allow Headway (MAH), s		4.0		4.1	4.3	4.0		
Max Q Clear (g_c+I1), s		12.7		18.0	78.0	5.1		
Green Ext Time (g_e), s		2.3		0.0	0.0	0.0		
Prob of Phs Call (p_c)		1.00		1.00	1.00	0.76		
Prob of Max Out (p_x)		0.00		1.00	1.00	1.00		

Left-Turn Movement Data								
Assigned Mvmt				7	1	5		
Mvmt Sat Flow, veh/h				1526	0	1645		

Through Movement Data								
Assigned Mvmt		2		4	6			
Mvmt Sat Flow, veh/h		1727		6	1727			

Right-Turn Movement Data								
Assigned Mvmt		12		14	16			
Mvmt Sat Flow, veh/h		0		101	1468			

Left Lane Group Data								
Assigned Mvmt	0	0	0	7	1	5	0	0
Lane Assignment				L+T+R		(Prot)		
Lanes in Grp	0	0	0	1	0	1	0	0

Grp Vol (v), veh/h	0	0	0	260	0	47	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1633	0	1645	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	16.0	0.0	3.1	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	16.0	0.0	3.1	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	76.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.00	0.00	0.93	0.00	1.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	0	0	242	0	58	0	0
V/C Ratio (X)	0.00	0.00	0.00	1.07	0.00	0.81	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	242	0	61	0	0
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	45.9	0.0	51.6	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	78.5	0.0	51.6	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	124.4	0.0	103.3	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	7.2	0.0	1.4	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	5.3	0.0	0.8	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	12.5	0.0	2.2	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.03	0.00	0.52	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	4.4	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	6	0	0	0
Lane Assignment		T			T			
Lanes in Grp	0	1	0	0	1	0	0	0
Grp Vol (v), veh/h	0	534	0	0	549	0	0	0
Grp Sat Flow (s), veh/h/ln	0	1727	0	0	1727	0	0	0
Q Serve Time (g_s), s	0.0	10.7	0.0	0.0	14.8	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	10.7	0.0	0.0	14.8	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	1343	0	0	1218	0	0	0
V/C Ratio (X)	0.00	0.40	0.00	0.00	0.45	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	1346	0	0	1218	0	0	0
Upstream Filter (I)	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	3.9	0.0	0.0	6.9	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.2	0.0	0.0	0.3	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	4.1	0.0	0.0	7.1	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	5.0	0.0	0.0	7.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	5.1	0.0	0.0	7.1	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.03	0.00	0.00	0.10	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	16	0	0	0
Lane Assignment					R			
Lanes in Grp	0	0	0	0	1	0	0	0
Grp Vol (v), veh/h	0	0	0	0	1347	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	1468	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	76.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	76.0	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.00	0.00	0.06	1.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	0	0	0	1035	0	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	0	1035	0	0	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	15.9	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	142.9	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	158.8	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	30.2	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	41.1	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	71.2	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	39.26	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	78.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	93.9
HCM 2010 LOS	F

Notes

User approved volume balancing among the lanes for turning movement.



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Volume (veh/h)	224	15	43	491	505	1239
Number	7	14	5	2	6	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00			1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1900	1727	1727	1727	1727
Adj Flow Rate, veh/h	243	16	47	534	549	1347
Adj No. of Lanes	0	0	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	10	10	10	10
Cap, veh/h	227	15	58	1343	1218	1035
Arrive On Green	0.15	0.15	0.04	0.78	0.70	0.70
Sat Flow, veh/h	1526	101	1645	1727	1727	1468
Grp Volume(v), veh/h	260	0	47	534	549	1347
Grp Sat Flow(s),veh/h/ln	1633	0	1645	1727	1727	1468
Q Serve(g_s), s	16.0	0.0	3.1	10.7	14.8	76.0
Cycle Q Clear(g_c), s	16.0	0.0	3.1	10.7	14.8	76.0
Prop In Lane	0.93	0.06	1.00			1.00
Lane Grp Cap(c), veh/h	242	0	58	1343	1218	1035
V/C Ratio(X)	1.07	0.00	0.81	0.40	0.45	1.30
Avail Cap(c_a), veh/h	242	0	61	1346	1218	1035
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	45.9	0.0	51.6	3.9	6.9	15.9
Incr Delay (d2), s/veh	78.5	0.0	51.6	0.2	0.3	142.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	12.5	0.0	2.2	5.1	7.1	71.2
LnGrp Delay(d),s/veh	124.4	0.0	103.3	4.1	7.1	158.8
LnGrp LOS	F		F	A	A	F
Approach Vol, veh/h	260			581	1896	
Approach Delay, s/veh	124.4			12.1	114.9	
Approach LOS	F			B	F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4	5	6		
Phs Duration (G+Y+Rc), s		87.8		20.0	7.8	80.0		
Change Period (Y+Rc), s		4.0		4.0	4.0	4.0		
Max Green Setting (Gmax), s		84.0		16.0	4.0	76.0		
Max Q Clear Time (g_c+I1), s		12.7		18.0	5.1	78.0		
Green Ext Time (p_c), s		2.3		0.0	0.0	0.0		

Intersection Summary	
HCM 2010 Ctrl Delay	93.9
HCM 2010 LOS	F

Notes

User approved volume balancing among the lanes for turning movement.

Intersection	
Int Delay, s/veh	6.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	86	581	0	0	2189	379	0	2	2	13	0	13
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	200	-	-	200	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	93	632	0	0	2379	412	0	2	2	14	0	14

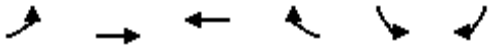
Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	2791	0	0	632	0	0	3410	3609	632	3406	3403	2585
Stage 1	-	-	-	-	-	-	818	818	-	2585	2585	-
Stage 2	-	-	-	-	-	-	2592	2791	-	821	818	-
Critical Hdwy	4.2	-	-	4.2	-	-	7.2	6.6	6.3	7.2	6.6	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.59	4.09	3.39	3.59	4.09	3.39
Pot Cap-1 Maneuver	129	-	-	913	-	-	4	5	466	~ 4	7	31
Stage 1	-	-	-	-	-	-	359	379	-	33	49	-
Stage 2	-	-	-	-	-	-	32	38	-	357	379	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	129	-	-	913	-	-	1	~ 1	466	-	2	31
Mov Cap-2 Maneuver	-	-	-	-	-	-	1	~ 1	-	-	2	-
Stage 1	-	-	-	-	-	-	100	106	-	~ 9	49	-
Stage 2	-	-	-	-	-	-	17	38	-	97	106	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	10.9	0	$ 3422.1	
HCM LOS			F	-

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	2	129	-	-	913	-	-	-
HCM Lane V/C Ratio	2.174	0.725	-	-	-	-	-	-
HCM Control Delay (s)	$ 3422.1	84.7	-	-	0	-	-	-
HCM Lane LOS	F	F	-	-	A	-	-	-
HCM 95th %tile Q(veh)	1.4	4.1	-	-	0	-	-	-

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (veh/h)	52	161	863	40	44	3
Number	7	4	8	18	1	16
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00			1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900
Adj Flow Rate, veh/h	57	175	938	43	48	3
Adj No. of Lanes	1	1	1	1	0	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	0	0
Opposing Right Turn Influence	Yes				Yes	
Cap, veh/h	355	1188	1188	1010	157	10
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.69	0.69	0.69	0.69	0.10	0.10
Ln Grp Delay, s/veh	10.3	2.1	5.3	1.9	16.9	0.0
Ln Grp LOS	B	A	A	A	B	
Approach Vol, veh/h		232	981		52	
Approach Delay, s/veh		4.1	5.2		16.9	
Approach LOS		A	A		B	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	6			4				8
Case No	12.0			6.0				7.0
Phs Duration (G+Y+Rc), s	8.0			30.4				30.4
Change Period (Y+Rc), s	4.0			4.0				4.0
Max Green (Gmax), s	17.0			65.0				65.0
Max Allow Headway (MAH), s	4.1			4.2				4.2
Max Q Clear (g_c+I1), s	3.1			19.4				16.3
Green Ext Time (g_e), s	0.1			7.0				7.0
Prob of Phs Call (p_c)	1.00			1.00				1.00
Prob of Max Out (p_x)	0.00			0.01				0.00

Left-Turn Movement Data								
Assigned Mvmt	1			7				3
Mvmt Sat Flow, veh/h	1509			530				0

Through Movement Data								
Assigned Mvmt	6			4				8
Mvmt Sat Flow, veh/h	31			1727				1727

Right-Turn Movement Data								
Assigned Mvmt	16			14				18
Mvmt Sat Flow, veh/h	94			0				1468

Left Lane Group Data								
Assigned Mvmt	1	0	0	7	0	0	0	3
Lane Assignment	L+T+R							
Lanes in Grp	1	0	0	1	0	0	0	0

Grp Vol (v), veh/h	52	0	0	57	0	0	0	0
Grp Sat Flow (s), veh/h/ln	1635	0	0	530	0	0	0	0
Q Serve Time (g_s), s	1.1	0.0	0.0	3.2	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	1.1	0.0	0.0	17.4	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	530	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	26.4	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	12.2	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.4
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.92	0.00	0.00	1.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	170	0	0	355	0	0	0	0
V/C Ratio (X)	0.31	0.00	0.00	0.16	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	723	0	0	887	0	0	0	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	15.9	0.0	0.0	10.1	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	1.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	16.9	0.0	0.0	10.3	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.6	0.0	0.0	0.5	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	6	0	0	4	0	0	0	8
Lane Assignment				T				T
Lanes in Grp	0	0	0	1	0	0	0	1
Grp Vol (v), veh/h	0	0	0	175	0	0	0	938
Grp Sat Flow (s), veh/h/ln	0	0	0	1727	0	0	0	1727
Q Serve Time (g_s), s	0.0	0.0	0.0	1.4	0.0	0.0	0.0	14.3
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	1.4	0.0	0.0	0.0	14.3
Lane Grp Cap (c), veh/h	0	0	0	1188	0	0	0	1188
V/C Ratio (X)	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.79
Avail Cap (c_a), veh/h	0	0	0	2921	0	0	0	2921
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	2.1	0.0	0.0	0.0	4.1
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	2.1	0.0	0.0	0.0	5.3
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.6	0.0	0.0	0.0	6.5
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4

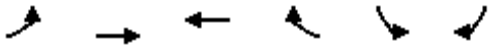
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.7	0.0	0.0	0.0	6.9
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	16	0	0	14	0	0	0	18
Lane Assignment								R
Lanes in Grp	0	0	0	0	0	0	0	1
Grp Vol (v), veh/h	0	0	0	0	0	0	0	43
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	1468
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.06	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	1010
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	2483
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	5.5
HCM 2010 LOS	A

Notes

User approved volume balancing among the lanes for turning movement.



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (veh/h)	52	161	863	40	44	3
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900
Adj Flow Rate, veh/h	57	175	938	43	48	3
Adj No. of Lanes	1	1	1	1	0	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	0	0
Cap, veh/h	355	1188	1188	1010	157	10
Arrive On Green	0.69	0.69	0.69	0.69	0.10	0.10
Sat Flow, veh/h	530	1727	1727	1468	1509	94
Grp Volume(v), veh/h	57	175	938	43	52	0
Grp Sat Flow(s),veh/h/ln	530	1727	1727	1468	1635	0
Q Serve(g_s), s	3.2	1.4	14.3	0.4	1.1	0.0
Cycle Q Clear(g_c), s	17.4	1.4	14.3	0.4	1.1	0.0
Prop In Lane	1.00			1.00	0.92	0.06
Lane Grp Cap(c), veh/h	355	1188	1188	1010	170	0
V/C Ratio(X)	0.16	0.15	0.79	0.04	0.31	0.00
Avail Cap(c_a), veh/h	887	2921	2921	2483	723	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	10.1	2.1	4.1	1.9	15.9	0.0
Incr Delay (d2), s/veh	0.2	0.1	1.2	0.0	1.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	0.7	6.9	0.1	0.6	0.0
LnGrp Delay(d),s/veh	10.3	2.1	5.3	1.9	16.9	0.0
LnGrp LOS	B	A	A	A	B	
Approach Vol, veh/h		232	981		52	
Approach Delay, s/veh		4.1	5.2		16.9	
Approach LOS		A	A		B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		8
Phs Duration (G+Y+Rc), s				30.4		8.0		30.4
Change Period (Y+Rc), s				4.0		4.0		4.0
Max Green Setting (Gmax), s				65.0		17.0		65.0
Max Q Clear Time (g_c+I1), s				19.4		3.1		16.3
Green Ext Time (p_c), s				7.0		0.1		7.0

Intersection Summary	
HCM 2010 Ctrl Delay	5.5
HCM 2010 LOS	A

Notes

User approved volume balancing among the lanes for turning movement.

Intersection	
Int Delay, s/veh	6.5

Movement	SET	SER	NWL	NWT	NEL	NER
Vol, veh/h	98	41	112	76	0	278
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	107	45	122	83	0	302

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	151	0	455	129
Stage 1	-	-	-	-	129	-
Stage 2	-	-	-	-	326	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	1382	-	549	900
Stage 1	-	-	-	-	878	-
Stage 2	-	-	-	-	714	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1382	-	498	900
Mov Cap-2 Maneuver	-	-	-	-	498	-
Stage 1	-	-	-	-	878	-
Stage 2	-	-	-	-	648	-

Approach	SE	NW	NE
HCM Control Delay, s	0	4.7	11
HCM LOS			B

Minor Lane/Major Mvmt	NELn1	NWL	NWT	SET	SER
Capacity (veh/h)	900	1382	-	-	-
HCM Lane V/C Ratio	0.336	0.088	-	-	-
HCM Control Delay (s)	11	7.9	0	-	-
HCM Lane LOS	B	A	A	-	-
HCM 95th %tile Q(veh)	1.5	0.3	-	-	-

Intersection	
Int Delay, s/veh	33.4

Movement	EBL	EBT	WBT	WBR	SEL	SER
Vol, veh/h	68	70	709	218	18	351
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	74	76	771	237	20	382

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	1008	0	-	0	1113	889
Stage 1	-	-	-	-	889	-
Stage 2	-	-	-	-	224	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	657	-	-	-	223	~ 331
Stage 1	-	-	-	-	389	-
Stage 2	-	-	-	-	795	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	657	-	-	-	197	~ 331
Mov Cap-2 Maneuver	-	-	-	-	197	-
Stage 1	-	-	-	-	389	-
Stage 2	-	-	-	-	701	-

Approach	EB	WB	SE
HCM Control Delay, s	5.5	0	127.6
HCM LOS			F

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SELn1	SELn2
Capacity (veh/h)	657	-	-	-	197	331
HCM Lane V/C Ratio	0.113	-	-	-	0.099	1.153
HCM Control Delay (s)	11.2	0	-	-	25.3	132.8
HCM Lane LOS	B	A	-	-	D	F
HCM 95th %tile Q(veh)	0.4	-	-	-	0.3	15.5

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Intersection	
Int Delay, s/veh	1.5

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	5	16	45	246	49	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	5	17	49	267	53	1

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	316	0	-	0	211	183
Stage 1	-	-	-	-	183	-
Stage 2	-	-	-	-	28	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1200	-	-	-	760	839
Stage 1	-	-	-	-	829	-
Stage 2	-	-	-	-	974	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1200	-	-	-	757	839
Mov Cap-2 Maneuver	-	-	-	-	757	-
Stage 1	-	-	-	-	829	-
Stage 2	-	-	-	-	970	-

Approach	EB	WB	SB
HCM Control Delay, s	1.9	0	10.1
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1200	-	-	-	758
HCM Lane V/C Ratio	0.005	-	-	-	0.072
HCM Control Delay (s)	8	0	-	-	10.1
HCM Lane LOS	A	A	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0.2

Intersection	
Int Delay, s/veh	198.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	11	11	50	6	249	368	91	403	2	48	198	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	170	-	-	162	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	12	12	54	7	271	400	99	438	2	52	215	0

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	1292	958	215	990	957	439	215	0	0	440	0	0
Stage 1	320	320	-	637	637	-	-	-	-	-	-	-
Stage 2	972	638	-	353	320	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.2	6.6	6.3	4.2	-	-	4.2	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.59	4.09	3.39	2.29	-	-	2.29	-	-
Pot Cap-1 Maneuver	135	249	805	218 ~	250	601	1309	-	-	1079	-	-
Stage 1	675	638	-	452	459	-	-	-	-	-	-	-
Stage 2	294	459	-	648	638	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	-	219	805	177 ~	220	601	1309	-	-	1079	-	-
Mov Cap-2 Maneuver	-	219	-	177 ~	220	-	-	-	-	-	-	-
Stage 1	624	607	-	418	424	-	-	-	-	-	-	-
Stage 2	33	424	-	564	607	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s		$ 456.2	1.5	1.7
HCM LOS	-	F		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1309	-	-	-	350	1079	-	-
HCM Lane V/C Ratio	0.076	-	-	-	1.935	0.048	-	-
HCM Control Delay (s)	8	-	-	$	456.2	8.5	-	-
HCM Lane LOS	A	-	-	-	F	A	-	-
HCM 95th %tile Q(veh)	0.2	-	-	-	46.4	0.2	-	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Intersection	
Intersection Delay, s/veh	9
Intersection LOS	A

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	SBU	SBL	SBR
Vol, veh/h	0	0	46	0	0	0	257	0	0	0	3
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	0	50	0	0	0	279	0	0	0	3
Number of Lanes	0	0	1	0	0	0	1	0	0	1	0

Approach	EB	WB
Opposing Approach	WB	EB
Opposing Lanes	1	1
Conflicting Approach Left	SB	
Conflicting Lanes Left	1	0
Conflicting Approach Right		SB
Conflicting Lanes Right	0	1
HCM Control Delay	7.8	9.3
HCM LOS	A	A

Lane	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	0%	94%
Vol Thru, %	100%	100%	0%
Vol Right, %	0%	0%	6%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	46	257	52
LT Vol	0	0	49
Through Vol	46	257	0
RT Vol	0	0	3
Lane Flow Rate	50	279	57
Geometry Grp	1	1	1
Degree of Util (X)	0.063	0.326	0.078
Departure Headway (Hd)	4.5	4.206	4.968
Convergence, Y/N	Yes	Yes	Yes
Cap	800	846	725
Service Time	2.507	2.279	2.972
HCM Lane V/C Ratio	0.063	0.33	0.079
HCM Control Delay	7.8	9.3	8.4
HCM Lane LOS	A	A	A
HCM 95th-tile Q	0.2	1.4	0.3

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	NWU	NWL	NWR
Vol, veh/h	0	0	0
Peak Hour Factor	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10
Mvmt Flow	0	0	0
Number of Lanes	0	0	0

Approach	
Opposing Approach	
Opposing Lanes	
Conflicting Approach Left	
Conflicting Lanes Left	
Conflicting Approach Right	
Conflicting Lanes Right	
HCM Control Delay	
HCM LOS	

Lane

Intersection	
Int Delay, s/veh	2.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBR	SEL	SER
Vol, veh/h	0	103	0	0	127	0	15	57	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	None	-	-
Storage Length	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	0	-	0	-
Grade, %	-	0	-	-	0	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	112	0	0	138	0	16	62	0	0

Major/Minor	Major1			Major2			Minor1		
Conflicting Flow All	138	0	0	112	0	0	250	112	
Stage 1	-	-	-	-	-	-	112	-	
Stage 2	-	-	-	-	-	-	138	-	
Critical Hdwy	4.2	-	-	4.2	-	-	6.5	6.3	
Critical Hdwy Stg 1	-	-	-	-	-	-	5.5	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	5.5	-	
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.59	3.39	
Pot Cap-1 Maneuver	1398	-	-	1429	-	-	721	920	
Stage 1	-	-	-	-	-	-	893	-	
Stage 2	-	-	-	-	-	-	869	-	
Platoon blocked, %		-	-		-	-			
Mov Cap-1 Maneuver	1398	-	-	1429	-	-	721	920	
Mov Cap-2 Maneuver	-	-	-	-	-	-	721	-	
Stage 1	-	-	-	-	-	-	893	-	
Stage 2	-	-	-	-	-	-	869	-	

Approach	EB	WB	NB
HCM Control Delay, s	0	0	9.3
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR
Capacity (veh/h)	920	1398	-	-	1429	-	-
HCM Lane V/C Ratio	0.085	-	-	-	-	-	-
HCM Control Delay (s)	9.3	0	-	-	0	-	-
HCM Lane LOS	A	A	-	-	A	-	-
HCM 95th %tile Q(veh)	0.3	0	-	-	0	-	-

Intersection	
Int Delay, s/veh	4.9

Movement	NBT	NBR	SBL	SBT	NWL	NWR
Vol, veh/h	632	183	126	269	1	204
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	299	-	0	-
Veh in Median Storage, #	0	-	-	0	1	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	687	199	137	292	1	222

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	886	0	1352	786
Stage 1	-	-	-	-	786	-
Stage 2	-	-	-	-	566	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	731	-	159	380
Stage 1	-	-	-	-	435	-
Stage 2	-	-	-	-	553	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	731	-	129	380
Mov Cap-2 Maneuver	-	-	-	-	261	-
Stage 1	-	-	-	-	435	-
Stage 2	-	-	-	-	449	-

Approach	NB	SB	NW
HCM Control Delay, s	0	3.5	27.2
HCM LOS			D

Minor Lane/Major Mvmt	NBT	NBR	NWLn1	SBL	SBT
Capacity (veh/h)	-	-	379	731	-
HCM Lane V/C Ratio	-	-	0.588	0.187	-
HCM Control Delay (s)	-	-	27.2	11.1	-
HCM Lane LOS	-	-	D	B	-
HCM 95th %tile Q(veh)	-	-	3.6	0.7	-

Intersection	
Intersection Delay, s/veh	23
Intersection LOS	C

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	55	122	56	0	36	258	59	0	139	219	62
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	60	133	61	0	39	280	64	0	151	238	67
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	1	1	1
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	1	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	1	1
HCM Control Delay	15.5	22	29.9
HCM LOS	C	C	D

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	33%	24%	10%	21%
Vol Thru, %	52%	52%	73%	58%
Vol Right, %	15%	24%	17%	21%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	420	233	353	76
LT Vol	139	55	36	16
Through Vol	219	122	258	44
RT Vol	62	56	59	16
Lane Flow Rate	457	253	384	83
Geometry Grp	1	1	1	1
Degree of Util (X)	0.799	0.468	0.68	0.166
Departure Headway (Hd)	6.303	6.652	6.384	7.245
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	575	539	564	492
Service Time	4.353	4.714	4.438	5.328
HCM Lane V/C Ratio	0.795	0.469	0.681	0.169
HCM Control Delay	29.9	15.5	22	11.8
HCM Lane LOS	D	C	C	B
HCM 95th-tile Q	7.7	2.5	5.2	0.6

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	16	44	16
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10
Mvmt Flow	0	17	48	17
Number of Lanes	0	0	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	1
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	11.8
HCM LOS	B

Lane

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	10	474	19	72	1121	25	201	298	91	3	74	9
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	11	515	21	78	1218	27	218	324	99	3	80	10
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	17	623	279	373	1334	597	249	746	634	5	491	417
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.01	0.19	0.19	0.23	0.41	0.41	0.15	0.43	0.43	0.00	0.28	0.28
Ln Grp Delay, s/veh	88.9	44.9	18.9	34.0	34.6	14.7	62.4	23.3	4.7	125.9	29.7	21.8
Ln Grp LOS	F	D	B	C	C	B	E	C	A	F	C	C
Approach Vol, veh/h		547			1323			641			93	
Approach Delay, s/veh		44.8			34.1			33.7			32.0	
Approach LOS		D			C			C			C	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	5	6	8	7
Case No	2.0	3.0	3.0	2.0	2.0	3.0	3.0	2.0
Phs Duration (G+Y+Rc), s	4.3	50.7	24.5	28.5	20.3	34.7	47.9	5.1
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	4.0	35.0	42.0	11.0	22.0	17.0	49.0	4.0
Max Allow Headway (MAH), s	4.1	4.1	4.0	4.1	4.1	4.1	4.0	4.1
Max Q Clear (g_c+I1), s	2.2	16.2	18.3	6.2	16.0	5.8	39.8	2.7
Green Ext Time (g_e), s	0.0	1.7	2.2	0.1	0.4	1.5	4.0	0.0
Prob of Phs Call (p_c)	0.09	1.00	1.00	0.90	1.00	1.00	1.00	0.28
Prob of Max Out (p_x)	1.00	0.00	0.00	0.48	0.28	0.06	0.44	1.00

Left-Turn Movement Data								
Assigned Mvmt	1			3	5			7
Mvmt Sat Flow, veh/h	1645			1645	1645			1645

Through Movement Data								
Assigned Mvmt		2	4			6	8	
Mvmt Sat Flow, veh/h		1727	3282			1727	3282	

Right-Turn Movement Data								
Assigned Mvmt		12	14			16	18	
Mvmt Sat Flow, veh/h		1468	1468			1468	1468	

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	5	0	0	7
Lane Assignment	(Prot)			(Prot)	(Prot)			(Prot)
Lanes in Grp	1	0	0	1	1	0	0	1

Grp Vol (v), veh/h	3	0	0	78	218	0	0	11
Grp Sat Flow (s), veh/h/ln	1645	0	0	1645	1645	0	0	1645
Q Serve Time (g_s), s	0.2	0.0	0.0	4.2	14.0	0.0	0.0	0.7
Cycle Q Clear Time (g_c), s	0.2	0.0	0.0	4.2	14.0	0.0	0.0	0.7
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	5	0	0	373	249	0	0	17
V/C Ratio (X)	0.57	0.00	0.00	0.21	0.88	0.00	0.00	0.65
Avail Cap (c_a), veh/h	61	0	0	373	335	0	0	61
Upstream Filter (I)	1.00	0.00	0.00	0.47	1.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	53.8	0.0	0.0	33.9	44.8	0.0	0.0	53.3
Incr Delay (d2), s/veh	72.1	0.0	0.0	0.1	17.6	0.0	0.0	35.6
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	125.9	0.0	0.0	34.0	62.4	0.0	0.0	88.9
1st-Term Q (Q1), veh/ln	0.1	0.0	0.0	1.9	6.4	0.0	0.0	0.3
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.0	0.0	1.2	0.0	0.0	0.2
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.2	0.0	0.0	1.9	7.6	0.0	0.0	0.5
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	0	6	8	0
Lane Assignment		T	T			T	T	
Lanes in Grp	0	1	2	0	0	1	2	0
Grp Vol (v), veh/h	0	324	515	0	0	80	1218	0
Grp Sat Flow (s), veh/h/ln	0	1727	1641	0	0	1727	1641	0
Q Serve Time (g_s), s	0.0	14.2	16.3	0.0	0.0	3.8	37.8	0.0
Cycle Q Clear Time (g_c), s	0.0	14.2	16.3	0.0	0.0	3.8	37.8	0.0
Lane Grp Cap (c), veh/h	0	746	623	0	0	491	1334	0
V/C Ratio (X)	0.00	0.43	0.83	0.00	0.00	0.16	0.91	0.00
Avail Cap (c_a), veh/h	0	746	1276	0	0	491	1489	0
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	1.00	0.47	0.00
Uniform Delay (d1), s/veh	0.0	21.4	42.1	0.0	0.0	29.0	30.3	0.0
Incr Delay (d2), s/veh	0.0	1.8	2.9	0.0	0.0	0.7	4.3	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	23.3	44.9	0.0	0.0	29.7	34.6	0.0
1st-Term Q (Q1), veh/ln	0.0	6.7	7.4	0.0	0.0	1.8	17.1	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.4	0.2	0.0	0.0	0.1	0.8	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	7.1	7.6	0.0	0.0	1.9	17.9	0.0
%ile Storage Ratio (RQ%)	0.00	0.08	0.04	0.00	0.00	0.00	0.04	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

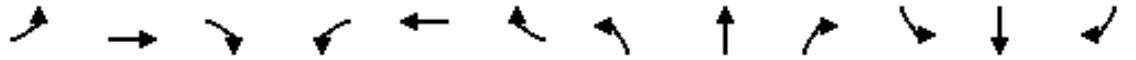
Right Lane Group Data								
Assigned Mvmt	0	12	14	0	0	16	18	0
Lane Assignment		R	R			R	R	
Lanes in Grp	0	1	1	0	0	1	1	0
Grp Vol (v), veh/h	0	99	21	0	0	10	27	0
Grp Sat Flow (s), veh/h/ln	0	1468	1468	0	0	1468	1468	0
Q Serve Time (g_s), s	0.0	2.1	0.9	0.0	0.0	0.5	1.0	0.0
Cycle Q Clear Time (g_c), s	0.0	2.1	0.9	0.0	0.0	0.5	1.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	1.00	0.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	634	279	0	0	417	597	0
V/C Ratio (X)	0.00	0.16	0.08	0.00	0.00	0.02	0.05	0.00
Avail Cap (c_a), veh/h	0	634	571	0	0	417	666	0
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	1.00	0.47	0.00
Uniform Delay (d1), s/veh	0.0	4.1	18.7	0.0	0.0	21.7	14.7	0.0
Incr Delay (d2), s/veh	0.0	0.5	0.1	0.0	0.0	0.1	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	4.7	18.9	0.0	0.0	21.8	14.7	0.0
1st-Term Q (Q1), veh/ln	0.0	0.8	0.4	0.0	0.0	0.2	0.4	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.9	0.4	0.0	0.0	0.2	0.4	0.0
%ile Storage Ratio (RQ%)	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	36.2
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	10	474	19	72	1121	25	201	298	91	3	74	9
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	11	515	21	78	1218	27	218	324	99	3	80	10
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	17	623	279	373	1334	597	249	746	634	5	491	417
Arrive On Green	0.01	0.19	0.19	0.23	0.41	0.41	0.15	0.43	0.43	0.00	0.28	0.28
Sat Flow, veh/h	1645	3282	1468	1645	3282	1468	1645	1727	1468	1645	1727	1468
Grp Volume(v), veh/h	11	515	21	78	1218	27	218	324	99	3	80	10
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1641	1468	1645	1727	1468	1645	1727	1468
Q Serve(g_s), s	0.7	16.3	0.9	4.2	37.8	1.0	14.0	14.2	2.1	0.2	3.8	0.5
Cycle Q Clear(g_c), s	0.7	16.3	0.9	4.2	37.8	1.0	14.0	14.2	2.1	0.2	3.8	0.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	17	623	279	373	1334	597	249	746	634	5	491	417
V/C Ratio(X)	0.65	0.83	0.08	0.21	0.91	0.05	0.88	0.43	0.16	0.57	0.16	0.02
Avail Cap(c_a), veh/h	61	1276	571	373	1489	666	335	746	634	61	491	417
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.47	0.47	0.47	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	53.3	42.1	18.7	33.9	30.3	14.7	44.8	21.4	4.1	53.8	29.0	21.7
Incr Delay (d2), s/veh	35.6	2.9	0.1	0.1	4.3	0.0	17.6	1.8	0.5	72.1	0.7	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	7.6	0.4	1.9	17.9	0.4	7.6	7.1	0.9	0.2	1.9	0.2
LnGrp Delay(d),s/veh	88.9	44.9	18.9	34.0	34.6	14.7	62.4	23.3	4.7	125.9	29.7	21.8
LnGrp LOS	F	D	B	C	C	B	E	C	A	F	C	C
Approach Vol, veh/h		547			1323			641			93	
Approach Delay, s/veh		44.8			34.1			33.7			32.0	
Approach LOS		D			C			C			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	4.3	50.7	28.5	24.5	20.3	34.7	5.1	47.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	4.0	35.0	11.0	42.0	22.0	17.0	4.0	49.0
Max Q Clear Time (g_c+I1), s	2.2	16.2	6.2	18.3	16.0	5.8	2.7	39.8
Green Ext Time (p_c), s	0.0	1.7	0.1	2.2	0.4	1.5	0.0	4.0

Intersection Summary	
HCM 2010 Ctrl Delay	36.2
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	574	27	222	1200	2	111	0	815	5	3	0
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	624	29	241	1304	2	121	0	886	5	3	0
Adj No. of Lanes	1	2	1	1	2	0	2	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	67	689	308	257	1355	2	1432	768	653	68	64	54
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.00	0.21	0.21	0.16	0.40	0.40	0.45	0.00	0.44	0.04	0.04	0.00
Ln Grp Delay, s/veh	0.0	54.1	34.5	57.3	39.5	39.2	17.1	0.0	198.2	50.2	50.5	0.0
Ln Grp LOS		D	C	E	D	D	B		F	D	D	
Approach Vol, veh/h		653			1547			1007			8	
Approach Delay, s/veh		53.2			42.1			176.4			50.3	
Approach LOS		D			D			F			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	6	5		8
Case No	3.0	2.0	5.0	2.0	3.0	2.0		4.0
Phs Duration (G+Y+Rc), s	52.0	8.5	26.7	20.9	8.0	52.5		47.5
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0		4.0
Max Green (Gmax), s	48.0	4.0	24.0	16.0	44.0	8.0		44.0
Max Allow Headway (MAH), s	4.4	4.1	4.0	4.0	4.0	4.1		4.0
Max Q Clear (g_c+I1), s	50.0	2.3	22.0	17.6	2.2	4.3		42.9
Green Ext Time (g_e), s	0.0	0.0	0.6	0.0	0.0	0.1		0.7
Prob of Phs Call (p_c)	1.00	0.14	1.00	1.00	1.00	0.97		1.00
Prob of Max Out (p_x)	1.00	1.00	1.00	1.00	0.00	1.00		1.00

Left-Turn Movement Data								
Assigned Mvmt		1	7	3		5		
Mvmt Sat Flow, veh/h		1645	389	1645		3191		

Through Movement Data								
Assigned Mvmt	2		4		6			8
Mvmt Sat Flow, veh/h	1727		3282		1727			3362

Right-Turn Movement Data								
Assigned Mvmt	12		14		16			18
Mvmt Sat Flow, veh/h	1468		1468		1468			5

Left Lane Group Data								
Assigned Mvmt	0	1	7	3	0	5	0	0
Lane Assignment		(Prot)		(Prot)		(Prot)		
Lanes in Grp	0	1	1	1	0	2	0	0

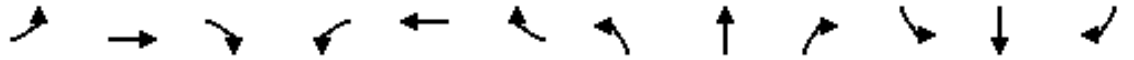
Grp Vol (v), veh/h	0	5	0	241	0	121	0	0
Grp Sat Flow (s), veh/h/ln	0	1645	389	1645	0	1596	0	0
Q Serve Time (g_s), s	0.0	0.3	0.0	15.6	0.0	2.3	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.3	0.0	15.6	0.0	2.3	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	389	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	1.00	0.00	1.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	68	67	257	0	1432	0	0
V/C Ratio (X)	0.00	0.07	0.00	0.94	0.00	0.08	0.00	0.00
Avail Cap (c_a), veh/h	0	68	71	257	0	1432	0	0
Upstream Filter (I)	0.00	1.00	0.00	0.18	0.00	0.72	0.00	0.00
Uniform Delay (d1), s/veh	0.0	49.8	0.0	45.1	0.0	17.1	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.5	0.0	12.2	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	50.2	0.0	57.3	0.0	17.1	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.1	0.0	7.1	0.0	1.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	1.00	0.00	1.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.2	0.0	8.0	0.0	1.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.04	0.00	0.69	0.00	0.17	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	6	0	0	8
Lane Assignment	T		T		T			T
Lanes in Grp	1	0	2	0	1	0	0	1
Grp Vol (v), veh/h	0	0	624	0	3	0	0	636
Grp Sat Flow (s), veh/h/ln	1727	0	1641	0	1727	0	0	1641
Q Serve Time (g_s), s	0.0	0.0	20.0	0.0	0.2	0.0	0.0	40.8
Cycle Q Clear Time (g_c), s	0.0	0.0	20.0	0.0	0.2	0.0	0.0	40.8
Lane Grp Cap (c), veh/h	768	0	689	0	64	0	0	661
V/C Ratio (X)	0.00	0.00	0.91	0.00	0.05	0.00	0.00	0.96
Avail Cap (c_a), veh/h	768	0	729	0	704	0	0	669
Upstream Filter (I)	0.00	0.00	0.83	0.00	1.00	0.00	0.00	0.18
Uniform Delay (d1), s/veh	0.0	0.0	41.6	0.0	50.2	0.0	0.0	31.4
Incr Delay (d2), s/veh	0.0	0.0	12.5	0.0	0.3	0.0	0.0	8.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	54.1	0.0	50.5	0.0	0.0	39.5
1st-Term Q (Q1), veh/ln	0.0	0.0	9.1	0.0	0.1	0.0	0.0	18.4
2nd-Term Q (Q2), veh/ln	0.0	0.0	1.2	0.0	0.0	0.0	0.0	1.5

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	10.3	0.0	0.1	0.0	0.0	19.9
%ile Storage Ratio (RQ%)	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.10
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	16	0	0	18
Lane Assignment	R		R		R			T+R
Lanes in Grp	1	0	1	0	1	0	0	1
Grp Vol (v), veh/h	886	0	29	0	0	0	0	670
Grp Sat Flow (s), veh/h/ln	1468	0	1468	0	1468	0	0	1726
Q Serve Time (g_s), s	48.0	0.0	1.7	0.0	0.0	0.0	0.0	40.9
Cycle Q Clear Time (g_c), s	48.0	0.0	1.7	0.0	0.0	0.0	0.0	40.9
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	653	0	308	0	54	0	0	696
V/C Ratio (X)	1.36	0.00	0.09	0.00	0.00	0.00	0.00	0.96
Avail Cap (c_a), veh/h	653	0	326	0	598	0	0	703
Upstream Filter (I)	0.72	0.00	0.83	0.00	0.00	0.00	0.00	0.18
Uniform Delay (d1), s/veh	30.0	0.0	34.4	0.0	0.0	0.0	0.0	31.4
Incr Delay (d2), s/veh	168.2	0.0	0.1	0.0	0.0	0.0	0.0	7.7
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	198.2	0.0	34.5	0.0	0.0	0.0	0.0	39.2
1st-Term Q (Q1), veh/ln	19.4	0.0	0.7	0.0	0.0	0.0	0.0	19.3
2nd-Term Q (Q2), veh/ln	30.5	0.0	0.0	0.0	0.0	0.0	0.0	1.5
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	49.9	0.0	0.7	0.0	0.0	0.0	0.0	20.8
%ile Storage Ratio (RQ%)	12.83	0.00	0.08	0.00	0.00	0.00	0.00	0.11
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	58.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0

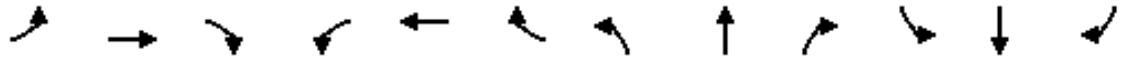
Intersection Summary	
HCM 2010 Ctrl Delay	86.5
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	574	27	222	1200	2	111	0	815	5	3	0
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	624	29	241	1304	2	121	0	886	5	3	0
Adj No. of Lanes	1	2	1	1	2	0	2	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	67	689	308	257	1355	2	1432	768	653	68	64	54
Arrive On Green	0.00	0.21	0.21	0.16	0.40	0.40	0.45	0.00	0.44	0.04	0.04	0.00
Sat Flow, veh/h	389	3282	1468	1645	3362	5	3191	1727	1468	1645	1727	1468
Grp Volume(v), veh/h	0	624	29	241	636	670	121	0	886	5	3	0
Grp Sat Flow(s),veh/h/ln	389	1641	1468	1645	1641	1726	1596	1727	1468	1645	1727	1468
Q Serve(g_s), s	0.0	20.0	1.7	15.6	40.8	40.9	2.3	0.0	48.0	0.3	0.2	0.0
Cycle Q Clear(g_c), s	0.0	20.0	1.7	15.6	40.8	40.9	2.3	0.0	48.0	0.3	0.2	0.0
Prop In Lane	1.00		1.00	1.00		0.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	67	689	308	257	661	696	1432	768	653	68	64	54
V/C Ratio(X)	0.00	0.91	0.09	0.94	0.96	0.96	0.08	0.00	1.36	0.07	0.05	0.00
Avail Cap(c_a), veh/h	71	729	326	257	669	703	1432	768	653	68	704	598
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.83	0.83	0.18	0.18	0.18	0.72	0.00	0.72	1.00	1.00	0.00
Uniform Delay (d), s/veh	0.0	41.6	34.4	45.1	31.4	31.4	17.1	0.0	30.0	49.8	50.2	0.0
Incr Delay (d2), s/veh	0.0	12.5	0.1	12.2	8.0	7.7	0.0	0.0	168.2	0.5	0.3	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	10.3	0.7	8.0	19.9	20.8	1.0	0.0	49.9	0.2	0.1	0.0
LnGrp Delay(d),s/veh	0.0	54.1	34.5	57.3	39.5	39.2	17.1	0.0	198.2	50.2	50.5	0.0
LnGrp LOS		D	C	E	D	D	B		F	D	D	
Approach Vol, veh/h		653			1547			1007			8	
Approach Delay, s/veh		53.2			42.1			176.4			50.3	
Approach LOS		D			D			F			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6		8
Phs Duration (G+Y+Rc), s	8.5	52.0	20.9	26.7	52.5	8.0		47.5
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	4.0	48.0	16.0	24.0	8.0	44.0		44.0
Max Q Clear Time (g_c+I1), s	2.3	50.0	17.6	22.0	4.3	2.2		42.9
Green Ext Time (p_c), s	0.0	0.0	0.0	0.6	0.1	0.0		0.7

Intersection Summary	
HCM 2010 Ctrl Delay	86.5
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	42	1449	58	192	0	114	133	32	437	15	6	17
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	46	1575	63	209	0	124	145	35	475	16	7	18
Adj No. of Lanes	1	2	0	1	2	1	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	786	1489	59	198	346	155	152	24	320	61	75	194
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.48	0.46	0.46	0.12	0.00	0.11	0.09	0.23	0.23	0.04	0.18	0.18
Ln Grp Delay, s/veh	15.2	63.9	65.9	123.2	0.0	55.4	103.4	0.0	273.3	52.8	0.0	38.0
Ln Grp LOS	B	F	F	F		E	F		F	D		D
Approach Vol, veh/h		1684			333			655			41	
Approach Delay, s/veh		63.5			98.0			235.7			43.8	
Approach LOS		E			F			F			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	5	6	8	7
Case No	4.0	2.0	4.0	2.0	2.0	4.0	3.0	2.0
Phs Duration (G+Y+Rc), s	29.0	8.0	54.0	17.0	14.0	23.0	15.4	55.6
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	25.0	4.0	50.0	13.0	10.0	19.0	56.0	7.0
Max Allow Headway (MAH), s	4.3	4.2	4.0	4.1	4.1	4.2	4.4	4.1
Max Q Clear (g_c+I1), s	27.0	3.0	52.0	15.0	11.5	3.5	10.9	3.6
Green Ext Time (g_e), s	0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.3
Prob of Phs Call (p_c)	1.00	0.38	1.00	1.00	0.99	1.00	1.00	0.75
Prob of Max Out (p_x)	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00

Left-Turn Movement Data								
Assigned Mvmt		1		3	5			7
Mvmt Sat Flow, veh/h		1645		1645	1645			1645

Through Movement Data								
Assigned Mvmt	2		4			6	8	
Mvmt Sat Flow, veh/h	102		3217			429	3282	

Right-Turn Movement Data								
Assigned Mvmt	12		14			16	18	
Mvmt Sat Flow, veh/h	1382		128			1103	1468	

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	5	0	0	7
Lane Assignment		(Prot)		(Prot)	(Prot)			(Prot)
Lanes in Grp	0	1	0	1	1	0	0	1

Grp Vol (v), veh/h	0	16	0	209	145	0	0	46
Grp Sat Flow (s), veh/h/ln	0	1645	0	1645	1645	0	0	1645
Q Serve Time (g_s), s	0.0	1.0	0.0	13.0	9.5	0.0	0.0	1.6
Cycle Q Clear Time (g_c), s	0.0	1.0	0.0	13.0	9.5	0.0	0.0	1.6
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	61	0	198	152	0	0	786
V/C Ratio (X)	0.00	0.26	0.00	1.06	0.95	0.00	0.00	0.06
Avail Cap (c_a), veh/h	0	61	0	198	152	0	0	786
Upstream Filter (I)	0.00	1.00	0.00	0.89	0.89	0.00	0.00	0.32
Uniform Delay (d1), s/veh	0.0	50.6	0.0	47.5	48.8	0.0	0.0	15.1
Incr Delay (d2), s/veh	0.0	2.3	0.0	75.7	54.6	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	52.8	0.0	123.2	103.4	0.0	0.0	15.2
1st-Term Q (Q1), veh/ln	0.0	0.5	0.0	5.9	4.3	0.0	0.0	0.7
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	4.2	2.3	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.5	0.0	10.1	6.6	0.0	0.0	0.7
%ile Storage Ratio (RQ%)	0.00	0.08	0.00	1.40	1.53	0.00	0.00	0.06
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	0	6	8	0
Lane Assignment			T				T	
Lanes in Grp	0	0	1	0	0	0	2	0
Grp Vol (v), veh/h	0	0	801	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	1641	0	0	0	1641	0
Q Serve Time (g_s), s	0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	760	0	0	0	346	0
V/C Ratio (X)	0.00	0.00	1.05	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	760	0	0	0	1702	0
Upstream Filter (I)	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	29.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	34.9	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	63.9	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	22.6	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	7.4	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	29.9	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	10.3	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	0	16	18	0
Lane Assignment	T+R		T+R			T+R	R	
Lanes in Grp	1	0	1	0	0	1	1	0
Grp Vol (v), veh/h	510	0	837	0	0	25	124	0
Grp Sat Flow (s), veh/h/ln	1483	0	1705	0	0	1533	1468	0
Q Serve Time (g_s), s	25.0	0.0	50.0	0.0	0.0	1.5	8.9	0.0
Cycle Q Clear Time (g_c), s	25.0	0.0	50.0	0.0	0.0	1.5	8.9	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.93	0.00	0.08	0.00	0.00	0.72	1.00	0.00
Lane Grp Cap (c), veh/h	343	0	789	0	0	270	155	0
V/C Ratio (X)	1.49	0.00	1.06	0.00	0.00	0.09	0.80	0.00
Avail Cap (c_a), veh/h	343	0	789	0	0	270	761	0
Upstream Filter (I)	0.89	0.00	0.32	0.00	0.00	1.00	0.89	0.00
Uniform Delay (d1), s/veh	41.5	0.0	29.0	0.0	0.0	37.3	47.2	0.0
Incr Delay (d2), s/veh	231.8	0.0	36.9	0.0	0.0	0.7	8.2	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	273.3	0.0	65.9	0.0	0.0	38.0	55.4	0.0
1st-Term Q (Q1), veh/ln	10.2	0.0	23.5	0.0	0.0	0.6	3.6	0.0
2nd-Term Q (Q2), veh/ln	22.1	0.0	8.1	0.0	0.0	0.1	0.4	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	32.3	0.0	31.5	0.0	0.0	0.7	4.0	0.0
%ile Storage Ratio (RQ%)	0.04	0.00	0.17	0.00	0.00	0.03	0.56	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	41.7	0.0	12.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.4	0.0	0.3	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	109.0
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	42	1449	58	192	0	114	133	32	437	15	6	17
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	46	1575	63	209	0	124	145	35	475	16	7	18
Adj No. of Lanes	1	2	0	1	2	1	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	786	1489	59	198	346	155	152	24	320	61	75	194
Arrive On Green	0.48	0.46	0.46	0.12	0.00	0.11	0.09	0.23	0.23	0.04	0.18	0.18
Sat Flow, veh/h	1645	3217	128	1645	3282	1468	1645	102	1382	1645	429	1103
Grp Volume(v), veh/h	46	801	837	209	0	124	145	0	510	16	0	25
Grp Sat Flow(s),veh/h/ln	1645	1641	1705	1645	1641	1468	1645	0	1483	1645	0	1533
Q Serve(g_s), s	1.6	50.0	50.0	13.0	0.0	8.9	9.5	0.0	25.0	1.0	0.0	1.5
Cycle Q Clear(g_c), s	1.6	50.0	50.0	13.0	0.0	8.9	9.5	0.0	25.0	1.0	0.0	1.5
Prop In Lane	1.00		0.08	1.00		1.00	1.00		0.93	1.00		0.72
Lane Grp Cap(c), veh/h	786	760	789	198	346	155	152	0	343	61	0	270
V/C Ratio(X)	0.06	1.05	1.06	1.06	0.00	0.80	0.95	0.00	1.49	0.26	0.00	0.09
Avail Cap(c_a), veh/h	786	760	789	198	1702	761	152	0	343	61	0	270
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.32	0.32	0.32	0.89	0.00	0.89	0.89	0.00	0.89	1.00	0.00	1.00
Uniform Delay (d), s/veh	15.1	29.0	29.0	47.5	0.0	47.2	48.8	0.0	41.5	50.6	0.0	37.3
Incr Delay (d2), s/veh	0.0	34.9	36.9	75.7	0.0	8.2	54.6	0.0	231.8	2.3	0.0	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	29.9	31.5	10.1	0.0	4.0	6.6	0.0	32.3	0.5	0.0	0.7
LnGrp Delay(d),s/veh	15.2	63.9	65.9	123.2	0.0	55.4	103.4	0.0	273.3	52.8	0.0	38.0
LnGrp LOS	B	F	F	F		E	F		F	D		D
Approach Vol, veh/h		1684			333			655			41	
Approach Delay, s/veh		63.5			98.0			235.7			43.8	
Approach LOS		E			F			F			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.0	29.0	17.0	54.0	14.0	23.0	55.6	15.4
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	4.0	25.0	13.0	50.0	10.0	19.0	7.0	56.0
Max Q Clear Time (g_c+I1), s	3.0	27.0	15.0	52.0	11.5	3.5	3.6	10.9
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.5

Intersection Summary	
HCM 2010 Ctrl Delay	109.0
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL2	NBL	NBR	SEL	SER	SER2
Lane Configurations												
Volume (veh/h)	2	2022	26	72	964	4	0	52	133	0	0	0
Number	7	4	14	3	8	18	5	5	12	1	16	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	2	2198	28	78	1048	4	0	0	145	0	0	0
Adj No. of Lanes	1	2	1	1	2	0	1	1	0	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes	Yes		Yes		
Cap, veh/h	546	2036	911	76	1123	4	366	366	245	2	1	1
HCM Platoon Ratio	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.33	0.62	0.62	0.09	0.67	0.67	0.00	0.00	0.22	0.00	0.00	0.00
Ln Grp Delay, s/veh	24.1	57.9	7.9	136.4	21.9	21.7	0.0	0.0	45.0	0.0	0.0	0.0
Ln Grp LOS	C	F	A	F	C	C			D			
Approach Vol, veh/h		2228			1130		202	202		0		
Approach Delay, s/veh		57.2			29.7		45.0	45.0		0.0		
Approach LOS		E			C		D	D				

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	6	5	8	7
Case No	2.0	4.0	3.0	2.0	3.0	2.0	4.0	2.0
Phs Duration (G+Y+Rc), s	0.0	28.0	71.0	9.0	0.0	28.0	40.2	39.8
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	4.0	16.0	67.0	5.0	16.0	4.0	68.0	4.0
Max Allow Headway (MAH), s	0.0	4.3	4.0	4.1	0.0	0.0	4.0	4.1
Max Q Clear (g_c+I1), s	0.0	14.7	69.0	7.0	0.0	0.0	31.7	2.1
Green Ext Time (g_e), s	0.0	0.1	0.0	0.0	0.0	0.0	4.4	0.0
Prob of Phs Call (p_c)	0.00	1.00	1.00	0.90	0.00	0.00	1.00	0.06
Prob of Max Out (p_x)	0.00	1.00	1.00	1.00	0.00	0.00	0.00	1.00

Left-Turn Movement Data								
Assigned Mvmt	1			3		5		7
Mvmt Sat Flow, veh/h	1645			1645		1645		1645

Through Movement Data								
Assigned Mvmt		2	4		6		8	
Mvmt Sat Flow, veh/h		433	3282		1727		3353	

Right-Turn Movement Data								
Assigned Mvmt		12	14		16		18	
Mvmt Sat Flow, veh/h		1100	1468		1468		13	

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	0	5	0	7
Lane Assignment	(Prot)			(Prot)		(Prot)		(Prot)
Lanes in Grp	1	0	0	1	0	1	0	1

Grp Vol (v), veh/h	0	0	0	78	0	0	0	2
Grp Sat Flow (s), veh/h/ln	1645	0	0	1645	0	1645	0	1645
Q Serve Time (g_s), s	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.1
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.1
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	2	0	0	76	0	366	0	546
V/C Ratio (X)	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	61	0	0	76	0	366	0	546
Upstream Filter (I)	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.13
Uniform Delay (d1), s/veh	0.0	0.0	0.0	49.0	0.0	0.0	0.0	24.1
Incr Delay (d2), s/veh	0.0	0.0	0.0	87.1	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	136.4	0.0	0.0	0.0	24.1
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	4.1	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	6	0	8	0
Lane Assignment			T		T		T	
Lanes in Grp	0	0	2	0	1	0	1	0
Grp Vol (v), veh/h	0	0	2198	0	0	0	513	0
Grp Sat Flow (s), veh/h/ln	0	0	1641	0	1727	0	1641	0
Q Serve Time (g_s), s	0.0	0.0	67.0	0.0	0.0	0.0	29.7	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	67.0	0.0	0.0	0.0	29.7	0.0
Lane Grp Cap (c), veh/h	0	0	2036	0	2	0	549	0
V/C Ratio (X)	0.00	0.00	1.08	0.00	0.00	0.00	0.93	0.00
Avail Cap (c_a), veh/h	0	0	2036	0	256	0	1033	0
Upstream Filter (I)	0.00	0.00	0.13	0.00	0.00	0.00	0.61	0.00
Uniform Delay (d1), s/veh	0.0	0.0	20.5	0.0	0.0	0.0	16.8	0.0
Incr Delay (d2), s/veh	0.0	0.0	37.4	0.0	0.0	0.0	5.2	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	57.9	0.0	0.0	0.0	21.9	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	30.0	0.0	0.0	0.0	13.1	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	10.6	0.0	0.0	0.0	0.8	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	40.5	0.0	0.0	0.0	13.9	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.72	0.00	0.00	0.00	0.29	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	40.5	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	14	0	16	0	18	0
Lane Assignment		T+R	R		R		T+R	
Lanes in Grp	0	1	1	0	1	0	1	0
Grp Vol (v), veh/h	0	202	28	0	0	0	539	0
Grp Sat Flow (s), veh/h/ln	0	1533	1468	0	1468	0	1725	0
Q Serve Time (g_s), s	0.0	12.7	0.8	0.0	0.0	0.0	29.7	0.0
Cycle Q Clear Time (g_c), s	0.0	12.7	0.8	0.0	0.0	0.0	29.7	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.72	1.00	0.00	1.00	0.00	0.01	0.00
Lane Grp Cap (c), veh/h	0	341	911	0	1	0	578	0
V/C Ratio (X)	0.00	0.59	0.03	0.00	0.00	0.00	0.93	0.00
Avail Cap (c_a), veh/h	0	341	911	0	218	0	1086	0
Upstream Filter (I)	0.00	1.00	0.13	0.00	0.00	0.00	0.61	0.00
Uniform Delay (d1), s/veh	0.0	37.6	7.9	0.0	0.0	0.0	16.8	0.0
Incr Delay (d2), s/veh	0.0	7.4	0.0	0.0	0.0	0.0	4.9	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	45.0	7.9	0.0	0.0	0.0	21.7	0.0
1st-Term Q (Q1), veh/ln	0.0	5.4	0.3	0.0	0.0	0.0	13.8	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.7	0.0	0.0	0.0	0.0	0.8	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	6.1	0.3	0.0	0.0	0.0	14.6	0.0
%ile Storage Ratio (RQ%)	0.00	0.05	0.01	0.00	0.00	0.00	0.30	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	47.8
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL2	NBL	NBR	SEL	SER	SER2
Lane Configurations												
Volume (veh/h)	2	2022	26	72	964	4	0	52	133	0	0	0
Number	7	4	14	3	8	18	5	5	12	1	16	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	2	2198	28	78	1048	4	0	0	145	0	0	0
Adj No. of Lanes	1	2	1	1	2	0	1	1	0	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	546	2036	911	76	1123	4	366	366	245	2	1	1
Arrive On Green	0.33	0.62	0.62	0.09	0.67	0.67	0.00	0.00	0.22	0.00	0.00	0.00
Sat Flow, veh/h	1645	3282	1468	1645	3353	13	1645	1645	1100	1645	1468	1468
Grp Volume(v), veh/h	2	2198	28	78	513	539	0	0	202	0	0	0
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1641	1725	1645	1645	1533	1645	1468	1468
Q Serve(g_s), s	0.1	67.0	0.8	5.0	29.7	29.7	0.0	0.0	12.7	0.0	0.0	0.0
Cycle Q Clear(g_c), s	0.1	67.0	0.8	5.0	29.7	29.7	0.0	0.0	12.7	0.0	0.0	0.0
Prop In Lane	1.00		1.00	1.00		0.01	1.00	1.00	0.72	1.00	1.00	1.00
Lane Grp Cap(c), veh/h	546	2036	911	76	549	578	366	366	341	2	1	1
V/C Ratio(X)	0.00	1.08	0.03	1.02	0.93	0.93	0.00	0.00	0.59	0.00	0.00	0.00
Avail Cap(c_a), veh/h	546	2036	911	76	1033	1086	366	366	341	61	218	218
HCM Platoon Ratio	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.13	0.13	0.13	0.61	0.61	0.61	0.00	0.00	1.00	0.00	0.00	0.00
Uniform Delay (d), s/veh	24.1	20.5	7.9	49.0	16.8	16.8	0.0	0.0	37.6	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	37.4	0.0	87.1	5.2	4.9	0.0	0.0	7.4	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	40.5	0.3	4.1	13.9	14.6	0.0	0.0	6.1	0.0	0.0	0.0
LnGrp Delay(d),s/veh	24.1	57.9	7.9	136.4	21.9	21.7	0.0	0.0	45.0	0.0	0.0	0.0
LnGrp LOS	C	F	A	F	C	C			D			
Approach Vol, veh/h		2228			1130		202	202		0		
Approach Delay, s/veh		57.2			29.7		45.0	45.0		0.0		
Approach LOS		E			C		D	D				

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	0.0	28.0	9.0	71.0	28.0	0.0	39.8	40.2
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	4.0	16.0	5.0	67.0	4.0	16.0	4.0	68.0
Max Q Clear Time (g_c+I1), s	0.0	14.7	7.0	69.0	0.0	0.0	2.1	31.7
Green Ext Time (p_c), s	0.0	0.1	0.0	0.0	0.0	0.0	0.0	4.4

Intersection Summary	
HCM 2010 Ctrl Delay	47.8
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL2	SBL	SBR	NWL	NWR	NWR2
Lane Configurations												
Volume (veh/h)	196	1150	447	0	916	61	0	59	50	0	0	0
Number	7	4	14	3	8	18	1	1	16	5	12	12
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	0	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	213	1250	486	0	996	66	0	0	54	0	0	0
Adj No. of Lanes	1	2	1	0	3	1	2	2	1	2	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	0	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			No			Yes	Yes		Yes		
Cap, veh/h	356	1678	751	0	1216	378	133	133	609	133	609	609
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.22	0.51	0.51	0.00	0.26	0.26	0.00	0.00	0.41	0.00	0.00	0.00
Ln Grp Delay, s/veh	38.2	20.9	19.4	0.0	39.1	31.3	0.0	0.0	19.3	0.0	0.0	0.0
Ln Grp LOS	D	C	B		D	C			B			
Approach Vol, veh/h		1949			1062		54	54		0		
Approach Delay, s/veh		22.4			38.6		19.3	19.3		0.0		
Approach LOS		C			D		B	B				

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6	8	7
Case No		5.0		3.0		5.0	7.0	2.0
Phs Duration (G+Y+Rc), s		48.8		59.2		48.8	31.8	27.4
Change Period (Y+Rc), s		4.0		4.0		4.0	4.0	4.0
Max Green (Gmax), s		25.0		75.0		25.0	39.0	32.0
Max Allow Headway (MAH), s		0.0		4.1		4.4	4.0	4.1
Max Q Clear (g_c+I1), s		0.0		34.5		4.4	23.5	14.6
Green Ext Time (g_e), s		0.0		12.2		0.1	4.4	8.8
Prob of Phs Call (p_c)		1.00		1.00		1.00	1.00	1.00
Prob of Max Out (p_x)		0.00		0.08		0.00	0.09	0.40

Left-Turn Movement Data								
Assigned Mvmt		5				1	3	7
Mvmt Sat Flow, veh/h		2282				3191	0	1645

Through Movement Data								
Assigned Mvmt		2		4		6	8	
Mvmt Sat Flow, veh/h		3040		3282		0	4871	

Right-Turn Movement Data								
Assigned Mvmt		12		14		16	18	
Mvmt Sat Flow, veh/h		1468		1468		1468	1468	

Left Lane Group Data								
Assigned Mvmt	0	5	0	0	0	1	3	7
Lane Assignment								(Prot)
Lanes in Grp	0	2	0	0	0	2	0	1

Grp Vol (v), veh/h	0	0	0	0	0	0	0	213
Grp Sat Flow (s), veh/h/ln	0	1141	0	0	0	1596	0	1645
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.6
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.6
Perm LT Sat Flow (s_l), veh/h/ln	0	1141	0	0	0	1596	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	27.8	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	133	0	0	0	133	0	356
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60
Avail Cap (c_a), veh/h	0	133	0	0	0	133	0	487
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.1
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.2
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.64
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	8	0
Lane Assignment		T		T			T	
Lanes in Grp	0	2	0	2	0	0	3	0
Grp Vol (v), veh/h	0	0	0	1250	0	0	996	0
Grp Sat Flow (s), veh/h/ln	0	1520	0	1641	0	0	1572	0
Q Serve Time (g_s), s	0.0	0.0	0.0	32.5	0.0	0.0	21.5	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	32.5	0.0	0.0	21.5	0.0
Lane Grp Cap (c), veh/h	0	1260	0	1678	0	0	1216	0
V/C Ratio (X)	0.00	0.00	0.00	0.74	0.00	0.00	0.82	0.00
Avail Cap (c_a), veh/h	0	1260	0	2279	0	0	1703	0
Upstream Filter (I)	0.00	0.00	0.00	0.09	0.00	0.00	0.61	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	20.8	0.0	0.0	37.7	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.1	0.0	0.0	1.4	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	20.9	0.0	0.0	39.1	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	14.6	0.0	0.0	9.3	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	14.6	0.0	0.0	9.5	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.30	0.00	0.00	0.13	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

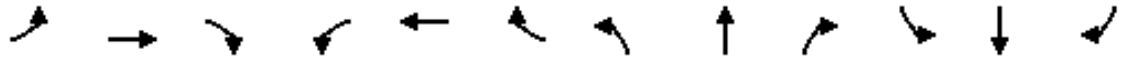
Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	18	0
Lane Assignment		R		R		R	R	
Lanes in Grp	0	1	0	1	0	1	1	0
Grp Vol (v), veh/h	0	0	0	486	0	54	66	0
Grp Sat Flow (s), veh/h/ln	0	1468	0	1468	0	1468	1468	0
Q Serve Time (g_s), s	0.0	0.0	0.0	26.1	0.0	2.4	3.8	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	26.1	0.0	2.4	3.8	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	609	0	751	0	609	378	0
V/C Ratio (X)	0.00	0.00	0.00	0.65	0.00	0.09	0.17	0.00
Avail Cap (c_a), veh/h	0	609	0	1020	0	609	530	0
Upstream Filter (I)	0.00	0.00	0.00	0.09	0.00	1.00	0.61	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	19.3	0.0	19.2	31.1	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	19.4	0.0	19.3	31.3	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	10.5	0.0	2.6	1.5	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	10.5	0.0	2.6	1.5	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.22	0.00	0.03	0.20	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	28.0
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL2	SBL	SBR	NWL	NWR	NWR2
Lane Configurations												
Volume (veh/h)	196	1150	447	0	916	61	0	59	50	0	0	0
Number	7	4	14	3	8	18	1	1	16	5	12	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	0	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	213	1250	486	0	996	66	0	0	54	0	0	0
Adj No. of Lanes	1	2	1	0	3	1	2	2	1	2	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	0	10	10	10	10	10	10	10	10
Cap, veh/h	356	1678	751	0	1216	378	133	133	609	133	609	609
Arrive On Green	0.22	0.51	0.51	0.00	0.26	0.26	0.00	0.00	0.41	0.00	0.00	0.00
Sat Flow, veh/h	1645	3282	1468	0	4871	1468	3191	3191	1468	2282	1468	1468
Grp Volume(v), veh/h	213	1250	486	0	996	66	0	0	54	0	0	0
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	0	1572	1468	1596	1596	1468	1141	1468	1468
Q Serve(g_s), s	12.6	32.5	26.1	0.0	21.5	3.8	0.0	0.0	2.4	0.0	0.0	0.0
Cycle Q Clear(g_c), s	12.6	32.5	26.1	0.0	21.5	3.8	0.0	0.0	2.4	0.0	0.0	0.0
Prop In Lane	1.00		1.00	0.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lane Grp Cap(c), veh/h	356	1678	751	0	1216	378	133	133	609	133	609	609
V/C Ratio(X)	0.60	0.74	0.65	0.00	0.82	0.17	0.00	0.00	0.09	0.00	0.00	0.00
Avail Cap(c_a), veh/h	487	2279	1020	0	1703	530	133	133	609	133	609	609
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.09	0.09	0.09	0.00	0.61	0.61	0.00	0.00	1.00	0.00	0.00	0.00
Uniform Delay (d), s/veh	38.1	20.8	19.3	0.0	37.7	31.1	0.0	0.0	19.2	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.1	0.1	0.1	0.0	1.4	0.1	0.0	0.0	0.1	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.8	14.6	10.5	0.0	9.5	1.5	0.0	0.0	2.6	0.0	0.0	0.0
LnGrp Delay(d),s/veh	38.2	20.9	19.4	0.0	39.1	31.3	0.0	0.0	19.3	0.0	0.0	0.0
LnGrp LOS	D	C	B		D	C			B			
Approach Vol, veh/h		1949			1062		54	54		0		
Approach Delay, s/veh		22.4			38.6		19.3	19.3		0.0		
Approach LOS		C			D		B	B				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6	7	8
Phs Duration (G+Y+Rc), s		48.8		59.2		48.8	27.4	31.8
Change Period (Y+Rc), s		4.0		4.0		4.0	4.0	4.0
Max Green Setting (Gmax), s		25.0		75.0		25.0	32.0	39.0
Max Q Clear Time (g_c+I1), s		0.0		34.5		4.4	14.6	23.5
Green Ext Time (p_c), s		0.0		12.2		0.1	8.8	4.4

Intersection Summary	
HCM 2010 Ctrl Delay	28.0
HCM 2010 LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	254	817	124	326	864	108	71	338	97	162	493	251
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	276	888	135	354	939	117	77	367	105	176	536	273
Adj No. of Lanes	2	2	1	2	2	1	2	1	1	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	517	1155	517	574	1213	543	122	428	364	231	925	414
HCM Platoon Ratio	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.05	0.12	0.12	0.18	0.37	0.37	0.04	0.25	0.25	0.07	0.28	0.28
Ln Grp Delay, s/veh	47.7	46.2	24.5	42.9	33.2	23.5	56.4	52.0	14.9	62.5	34.1	37.6
Ln Grp LOS	D	D	C	D	C	C	E	D	B	E	C	D
Approach Vol, veh/h		1299			1410			549			985	
Approach Delay, s/veh		44.3			34.9			45.5			40.1	
Approach LOS		D			C			D			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	5	6	7	8
Case No	2.0	3.0	3.0	2.0	2.0	3.0	2.0	3.0
Phs Duration (G+Y+Rc), s	11.8	30.8	42.0	23.4	8.1	34.5	21.5	43.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	8.0	30.0	38.0	16.0	6.0	32.0	16.0	38.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	7.8	23.9	30.4	13.1	4.6	19.7	11.1	29.3
Green Ext Time (g_e), s	0.0	2.9	2.9	0.4	0.0	4.4	0.5	4.2
Prob of Phs Call (p_c)	0.99	1.00	1.00	1.00	0.90	1.00	1.00	1.00
Prob of Max Out (p_x)	1.00	0.74	0.00	1.00	1.00	0.29	0.60	0.53

Left-Turn Movement Data								
Assigned Mvmt	1			3	5		7	
Mvmt Sat Flow, veh/h	3191			3191	3191		3191	

Through Movement Data								
Assigned Mvmt		2	4			6		8
Mvmt Sat Flow, veh/h		1727	3282			3282		3282

Right-Turn Movement Data								
Assigned Mvmt		12	14			16		18
Mvmt Sat Flow, veh/h		1468	1468			1468		1468

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	5	0	7	0
Lane Assignment	(Prot)			(Prot)	(Prot)		(Prot)	
Lanes in Grp	2	0	0	2	2	0	2	0

Grp Vol (v), veh/h	176	0	0	354	77	0	276	0
Grp Sat Flow (s), veh/h/ln	1596	0	0	1596	1596	0	1596	0
Q Serve Time (g_s), s	5.8	0.0	0.0	11.1	2.6	0.0	9.1	0.0
Cycle Q Clear Time (g_c), s	5.8	0.0	0.0	11.1	2.6	0.0	9.1	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	231	0	0	574	122	0	517	0
V/C Ratio (X)	0.76	0.00	0.00	0.62	0.63	0.00	0.53	0.00
Avail Cap (c_a), veh/h	236	0	0	574	177	0	517	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	1.00	0.00	0.55	0.00
Uniform Delay (d1), s/veh	49.2	0.0	0.0	40.9	51.2	0.0	47.1	0.0
Incr Delay (d2), s/veh	13.3	0.0	0.0	2.0	5.3	0.0	0.6	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	62.5	0.0	0.0	42.9	56.4	0.0	47.7	0.0
1st-Term Q (Q1), veh/ln	2.6	0.0	0.0	4.9	1.1	0.0	4.0	0.0
2nd-Term Q (Q2), veh/ln	0.4	0.0	0.0	0.2	0.1	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	3.0	0.0	0.0	5.0	1.2	0.0	4.1	0.0
%ile Storage Ratio (RQ%)	0.33	0.00	0.00	0.61	0.06	0.00	0.52	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	0	6	0	8
Lane Assignment		T	T			T		T
Lanes in Grp	0	1	2	0	0	2	0	2
Grp Vol (v), veh/h	0	367	888	0	0	536	0	939
Grp Sat Flow (s), veh/h/ln	0	1727	1641	0	0	1641	0	1641
Q Serve Time (g_s), s	0.0	21.9	28.4	0.0	0.0	15.1	0.0	27.3
Cycle Q Clear Time (g_c), s	0.0	21.9	28.4	0.0	0.0	15.1	0.0	27.3
Lane Grp Cap (c), veh/h	0	428	1155	0	0	925	0	1213
V/C Ratio (X)	0.00	0.86	0.77	0.00	0.00	0.58	0.00	0.77
Avail Cap (c_a), veh/h	0	480	1155	0	0	972	0	1213
Upstream Filter (I)	0.00	1.00	0.55	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	38.8	43.5	0.0	0.0	33.3	0.0	30.1
Incr Delay (d2), s/veh	0.0	13.2	2.8	0.0	0.0	0.8	0.0	3.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	52.0	46.2	0.0	0.0	34.1	0.0	33.2
1st-Term Q (Q1), veh/ln	0.0	10.4	12.9	0.0	0.0	6.8	0.0	12.3
2nd-Term Q (Q2), veh/ln	0.0	1.6	0.4	0.0	0.0	0.1	0.0	0.5

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	12.0	13.4	0.0	0.0	7.0	0.0	12.8
%ile Storage Ratio (RQ%)	0.00	0.10	0.18	0.00	0.00	0.02	0.00	0.03
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	14	0	0	16	0	18
Lane Assignment		R	R			R		R
Lanes in Grp	0	1	1	0	0	1	0	1
Grp Vol (v), veh/h	0	105	135	0	0	273	0	117
Grp Sat Flow (s), veh/h/ln	0	1468	1468	0	0	1468	0	1468
Q Serve Time (g_s), s	0.0	4.1	7.5	0.0	0.0	17.7	0.0	5.9
Cycle Q Clear Time (g_c), s	0.0	4.1	7.5	0.0	0.0	17.7	0.0	5.9
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	364	517	0	0	414	0	543
V/C Ratio (X)	0.00	0.29	0.26	0.00	0.00	0.66	0.00	0.22
Avail Cap (c_a), veh/h	0	408	517	0	0	435	0	543
Upstream Filter (I)	0.00	1.00	0.55	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	14.4	23.9	0.0	0.0	34.2	0.0	23.3
Incr Delay (d2), s/veh	0.0	0.4	0.7	0.0	0.0	3.4	0.0	0.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	14.9	24.5	0.0	0.0	37.6	0.0	23.5
1st-Term Q (Q1), veh/ln	0.0	1.7	3.0	0.0	0.0	7.2	0.0	2.4
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.1	0.0	0.0	0.4	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.7	3.1	0.0	0.0	7.6	0.0	2.4
%ile Storage Ratio (RQ%)	0.00	0.14	0.41	0.00	0.00	0.84	0.00	0.29
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	40.3
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	254	817	124	326	864	108	71	338	97	162	493	251
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	276	888	135	354	939	117	77	367	105	176	536	273
Adj No. of Lanes	2	2	1	2	2	1	2	1	1	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	517	1155	517	574	1213	543	122	428	364	231	925	414
Arrive On Green	0.05	0.12	0.12	0.18	0.37	0.37	0.04	0.25	0.25	0.07	0.28	0.28
Sat Flow, veh/h	3191	3282	1468	3191	3282	1468	3191	1727	1468	3191	3282	1468
Grp Volume(v), veh/h	276	888	135	354	939	117	77	367	105	176	536	273
Grp Sat Flow(s),veh/h/ln	1596	1641	1468	1596	1641	1468	1596	1727	1468	1596	1641	1468
Q Serve(g_s), s	9.1	28.4	7.5	11.1	27.3	5.9	2.6	21.9	4.1	5.8	15.1	17.7
Cycle Q Clear(g_c), s	9.1	28.4	7.5	11.1	27.3	5.9	2.6	21.9	4.1	5.8	15.1	17.7
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	517	1155	517	574	1213	543	122	428	364	231	925	414
V/C Ratio(X)	0.53	0.77	0.26	0.62	0.77	0.22	0.63	0.86	0.29	0.76	0.58	0.66
Avail Cap(c_a), veh/h	517	1155	517	574	1213	543	177	480	408	236	972	435
HCM Platoon Ratio	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.55	0.55	0.55	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	47.1	43.5	23.9	40.9	30.1	23.3	51.2	38.8	14.4	49.2	33.3	34.2
Incr Delay (d2), s/veh	0.6	2.8	0.7	2.0	3.2	0.2	5.3	13.2	0.4	13.3	0.8	3.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.1	13.4	3.1	5.0	12.8	2.4	1.2	12.0	1.7	3.0	7.0	7.6
LnGrp Delay(d),s/veh	47.7	46.2	24.5	42.9	33.2	23.5	56.4	52.0	14.9	62.5	34.1	37.6
LnGrp LOS	D	D	C	D	C	C	E	D	B	E	C	D
Approach Vol, veh/h		1299			1410			549			985	
Approach Delay, s/veh		44.3			34.9			45.5			40.1	
Approach LOS		D			C			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.8	30.8	23.4	42.0	8.1	34.5	21.5	43.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	8.0	30.0	16.0	38.0	6.0	32.0	16.0	38.0
Max Q Clear Time (g_c+I1), s	7.8	23.9	13.1	30.4	4.6	19.7	11.1	29.3
Green Ext Time (p_c), s	0.0	2.9	0.4	2.9	0.0	4.4	0.5	4.2

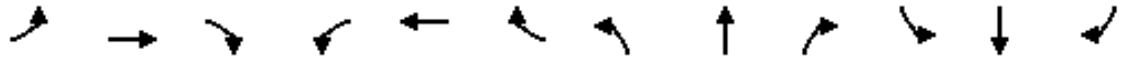
Intersection Summary	
HCM 2010 Ctrl Delay	40.3
HCM 2010 LOS	D

Intersection	
Intersection Delay, s/veh	57.4
Intersection LOS	F

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Vol, veh/h	0	438	401	98	0	77	455	180	0	73	204	18	0	27	154	159
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	476	436	107	0	84	495	196	0	79	222	20	0	29	167	173
Number of Lanes	0	0	1	1	0	0	1	1	0	0	1	0	0	0	1	1

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	2	2	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	2	1	2	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	2	2	2
HCM Control Delay	70.4	61.2	49.1	20.5
HCM LOS	F	F	E	C

Lane	NBLn1	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1	SBLn2
Vol Left, %	25%	52%	0%	14%	0%	15%	0%
Vol Thru, %	69%	48%	0%	86%	0%	85%	0%
Vol Right, %	6%	0%	100%	0%	100%	0%	100%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	295	839	98	532	180	181	159
LT Vol	73	438	0	77	0	27	0
Through Vol	204	401	0	455	0	154	0
RT Vol	18	0	98	0	180	0	159
Lane Flow Rate	321	912	107	578	196	197	173
Geometry Grp	6	7	7	7	7	7	7
Degree of Util (X)	0.855	1	0.246	1	0.449	0.527	0.426
Departure Headway (Hd)	9.604	9.273	8.307	9.042	8.266	9.646	8.872
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	378	401	430	405	434	374	406
Service Time	7.649	7.061	6.095	6.83	6.053	7.395	6.621
HCM Lane V/C Ratio	0.849	2.274	0.249	1.427	0.452	0.527	0.426
HCM Control Delay	49.1	77	13.8	75.9	17.7	22.7	18.1
HCM Lane LOS	E	F	B	F	C	C	C
HCM 95th-tile Q	8.1	12	1	12.2	2.3	2.9	2.1



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	14	181	21	69	135	27	31	118	53	70	235	14
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	15	197	23	75	147	29	34	128	58	76	255	15
Adj No. of Lanes	1	2	0	1	2	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	23	277	32	102	388	75	916	192	83	956	347	20
HCM Platoon Ratio	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.01	0.09	0.09	0.02	0.05	0.05	0.56	0.09	0.09	0.58	0.11	0.11
Ln Grp Delay, s/veh	71.7	45.4	45.8	53.0	40.0	40.1	9.0	61.3	66.4	8.3	61.5	61.5
Ln Grp LOS	E	D	D	D	D	D	A	E	E	A	E	E
Approach Vol, veh/h		235			251			220			346	
Approach Delay, s/veh		47.2			43.9			55.4			49.8	
Approach LOS		D			D			E			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	6	5	7	8
Case No	4.0	2.0	4.0	2.0	4.0	2.0	2.0	4.0
Phs Duration (G+Y+Rc), s	11.7	56.3	12.4	9.6	13.9	54.1	5.3	16.7
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	20.0	20.0	20.0	14.0	30.0	10.0	8.0	26.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.0	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	7.3	3.8	7.9	6.1	9.1	2.8	2.8	6.8
Green Ext Time (g_e), s	0.5	0.3	0.5	0.5	0.8	0.2	0.0	0.8
Prob of Phs Call (p_c)	1.00	1.00	1.00	0.85	1.00	0.57	0.31	1.00
Prob of Max Out (p_x)	0.00	0.00	0.00	0.09	0.00	0.06	0.16	0.00

Left-Turn Movement Data								
Assigned Mvmt		1		3		5	7	
Mvmt Sat Flow, veh/h		1645		1645		1645	1645	

Through Movement Data								
Assigned Mvmt	2		4		6			8
Mvmt Sat Flow, veh/h	2234		2966		3151			2745

Right-Turn Movement Data								
Assigned Mvmt	12		14		16			18
Mvmt Sat Flow, veh/h	964		342		184			530

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	0	5	7	0
Lane Assignment		(Prot)		(Prot)		(Prot)	(Prot)	
Lanes in Grp	0	1	0	1	0	1	1	0

Grp Vol (v), veh/h	0	76	0	75	0	34	15	0
Grp Sat Flow (s), veh/h/ln	0	1645	0	1645	0	1645	1645	0
Q Serve Time (g_s), s	0.0	1.8	0.0	4.1	0.0	0.8	0.8	0.0
Cycle Q Clear Time (g_c), s	0.0	1.8	0.0	4.1	0.0	0.8	0.8	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	956	0	102	0	916	23	0
V/C Ratio (X)	0.00	0.08	0.00	0.74	0.00	0.04	0.66	0.00
Avail Cap (c_a), veh/h	0	956	0	256	0	916	146	0
Upstream Filter (I)	0.00	1.00	0.00	0.98	0.00	1.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	8.3	0.0	43.4	0.0	9.0	44.2	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	9.7	0.0	0.0	27.5	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	8.3	0.0	53.0	0.0	9.0	71.7	0.0
1st-Term Q (Q1), veh/ln	0.0	0.8	0.0	1.9	0.0	0.4	0.4	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.3	0.0	0.0	0.2	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.8	0.0	2.1	0.0	0.4	0.5	0.0
%ile Storage Ratio (RQ%)	0.00	0.17	0.00	0.34	0.00	0.05	0.08	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	6	0	0	8
Lane Assignment	T		T		T			T
Lanes in Grp	1	0	1	0	1	0	0	1
Grp Vol (v), veh/h	92	0	108	0	132	0	0	87
Grp Sat Flow (s), veh/h/ln	1641	0	1641	0	1641	0	0	1641
Q Serve Time (g_s), s	4.9	0.0	5.7	0.0	7.0	0.0	0.0	4.6
Cycle Q Clear Time (g_c), s	4.9	0.0	5.7	0.0	7.0	0.0	0.0	4.6
Lane Grp Cap (c), veh/h	141	0	153	0	181	0	0	232
V/C Ratio (X)	0.66	0.00	0.70	0.00	0.73	0.00	0.00	0.37
Avail Cap (c_a), veh/h	365	0	365	0	547	0	0	474
Upstream Filter (I)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	0.98
Uniform Delay (d1), s/veh	39.9	0.0	39.6	0.0	38.7	0.0	0.0	39.0
Incr Delay (d2), s/veh	21.4	0.0	5.8	0.0	22.7	0.0	0.0	1.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	61.3	0.0	45.4	0.0	61.5	0.0	0.0	40.0
1st-Term Q (Q1), veh/ln	2.2	0.0	2.6	0.0	3.2	0.0	0.0	2.1
2nd-Term Q (Q2), veh/ln	0.8	0.0	0.2	0.0	1.1	0.0	0.0	0.1

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	3.1	0.0	2.9	0.0	4.3	0.0	0.0	2.2
%ile Storage Ratio (RQ%)	0.18	0.00	0.01	0.00	0.01	0.00	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	16	0	0	18
Lane Assignment	T+R		T+R		T+R			T+R
Lanes in Grp	1	0	1	0	1	0	0	1
Grp Vol (v), veh/h	94	0	112	0	138	0	0	89
Grp Sat Flow (s), veh/h/ln	1557	0	1667	0	1695	0	0	1634
Q Serve Time (g_s), s	5.3	0.0	5.9	0.0	7.1	0.0	0.0	4.8
Cycle Q Clear Time (g_c), s	5.3	0.0	5.9	0.0	7.1	0.0	0.0	4.8
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.62	0.00	0.21	0.00	0.11	0.00	0.00	0.32
Lane Grp Cap (c), veh/h	134	0	156	0	187	0	0	231
V/C Ratio (X)	0.70	0.00	0.72	0.00	0.74	0.00	0.00	0.39
Avail Cap (c_a), veh/h	346	0	370	0	565	0	0	472
Upstream Filter (I)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	0.98
Uniform Delay (d1), s/veh	40.0	0.0	39.6	0.0	38.8	0.0	0.0	39.1
Incr Delay (d2), s/veh	26.4	0.0	6.1	0.0	22.7	0.0	0.0	1.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	66.4	0.0	45.8	0.0	61.5	0.0	0.0	40.1
1st-Term Q (Q1), veh/ln	2.3	0.0	2.7	0.0	3.3	0.0	0.0	2.2
2nd-Term Q (Q2), veh/ln	1.0	0.0	0.3	0.0	1.2	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	3.2	0.0	3.0	0.0	4.5	0.0	0.0	2.2
%ile Storage Ratio (RQ%)	0.20	0.00	0.02	0.00	0.01	0.00	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	49.0
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	14	181	21	69	135	27	31	118	53	70	235	14
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	15	197	23	75	147	29	34	128	58	76	255	15
Adj No. of Lanes	1	2	0	1	2	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	23	277	32	102	388	75	916	192	83	956	347	20
Arrive On Green	0.01	0.09	0.09	0.02	0.05	0.05	0.56	0.09	0.09	0.58	0.11	0.11
Sat Flow, veh/h	1645	2966	342	1645	2745	530	1645	2234	964	1645	3151	184
Grp Volume(v), veh/h	15	108	112	75	87	89	34	92	94	76	132	138
Grp Sat Flow(s),veh/h/ln	1645	1641	1667	1645	1641	1634	1645	1641	1557	1645	1641	1695
Q Serve(g_s), s	0.8	5.7	5.9	4.1	4.6	4.8	0.8	4.9	5.3	1.8	7.0	7.1
Cycle Q Clear(g_c), s	0.8	5.7	5.9	4.1	4.6	4.8	0.8	4.9	5.3	1.8	7.0	7.1
Prop In Lane	1.00		0.21	1.00		0.32	1.00		0.62	1.00		0.11
Lane Grp Cap(c), veh/h	23	153	156	102	232	231	916	141	134	956	181	187
V/C Ratio(X)	0.66	0.70	0.72	0.74	0.37	0.39	0.04	0.66	0.70	0.08	0.73	0.74
Avail Cap(c_a), veh/h	146	365	370	256	474	472	916	365	346	956	547	565
HCM Platoon Ratio	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.98	0.98	0.98	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	44.2	39.6	39.6	43.4	39.0	39.1	9.0	39.9	40.0	8.3	38.7	38.8
Incr Delay (d2), s/veh	27.5	5.8	6.1	9.7	1.0	1.0	0.0	21.4	26.4	0.0	22.7	22.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	2.9	3.0	2.1	2.2	2.2	0.4	3.1	3.2	0.8	4.3	4.5
LnGrp Delay(d),s/veh	71.7	45.4	45.8	53.0	40.0	40.1	9.0	61.3	66.4	8.3	61.5	61.5
LnGrp LOS	E	D	D	D	D	D	A	E	E	A	E	E
Approach Vol, veh/h		235			251			220			346	
Approach Delay, s/veh		47.2			43.9			55.4			49.8	
Approach LOS		D			D			E			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	6.3	11.7	9.6	12.4	54.1	13.9	5.3	16.7
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	2.0	20.0	14.0	20.0	10.0	30.0	8.0	26.0
Max Q Clear Time (g_c+I1), s	3.8	7.3	6.1	7.9	2.8	9.1	2.8	6.8
Green Ext Time (p_c), s	0.3	0.5	0.5	0.5	0.2	0.8	0.0	0.8

Intersection Summary	
HCM 2010 Ctrl Delay	49.0
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	40	176	52	55	136	158	28	299	500	220	169	50
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	43	191	57	60	148	172	30	325	543	239	184	54
Adj No. of Lanes	1	2	0	1	2	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	52	446	130	289	528	472	39	492	440	277	1123	320
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.03	0.18	0.18	0.18	0.32	0.32	0.02	0.30	0.30	0.17	0.45	0.45
Ln Grp Delay, s/veh	65.9	36.6	37.2	32.1	24.1	25.6	71.3	30.7	154.7	48.6	15.0	15.1
Ln Grp LOS	E	D	D	C	C	C	E	C	F	D	B	B
Approach Vol, veh/h		291			380			898			477	
Approach Delay, s/veh		41.2			26.0			107.0			31.9	
Approach LOS		D			C			F			C	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	5	6	7	8
Case No	2.0	4.0	4.0	2.0	2.0	4.0	2.0	4.0
Phs Duration (G+Y+Rc), s	19.2	31.0	20.0	19.8	6.1	44.1	6.9	33.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	22.0	27.0	16.0	9.0	6.0	43.0	6.0	19.0
Max Allow Headway (MAH), s	4.1	4.2	4.1	4.2	4.1	4.2	4.1	4.2
Max Q Clear (g_c+I1), s	14.7	29.0	8.3	4.8	3.6	6.0	4.3	10.1
Green Ext Time (g_e), s	0.5	0.0	0.5	0.6	0.0	5.0	0.0	0.9
Prob of Phs Call (p_c)	1.00	1.00	1.00	0.78	0.53	1.00	0.66	1.00
Prob of Max Out (p_x)	0.13	1.00	0.00	1.00	1.00	0.00	1.00	0.00

Left-Turn Movement Data								
Assigned Mvmt	1			3	5		7	
Mvmt Sat Flow, veh/h	1645			1645	1645		1645	

Through Movement Data								
Assigned Mvmt		2	4			6		8
Mvmt Sat Flow, veh/h		1641	2511			2521		1641

Right-Turn Movement Data								
Assigned Mvmt		12	14			16		18
Mvmt Sat Flow, veh/h		1468	729			720		1468

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	5	0	7	0
Lane Assignment	(Prot)			(Prot)	(Prot)		(Prot)	
Lanes in Grp	1	0	0	1	1	0	1	0

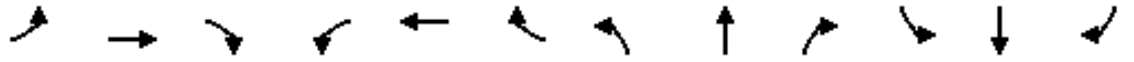
Grp Vol (v), veh/h	239	0	0	60	30	0	43	0
Grp Sat Flow (s), veh/h/ln	1645	0	0	1645	1645	0	1645	0
Q Serve Time (g_s), s	12.7	0.0	0.0	2.8	1.6	0.0	2.3	0.0
Cycle Q Clear Time (g_c), s	12.7	0.0	0.0	2.8	1.6	0.0	2.3	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	277	0	0	289	39	0	52	0
V/C Ratio (X)	0.86	0.00	0.00	0.21	0.78	0.00	0.82	0.00
Avail Cap (c_a), veh/h	402	0	0	289	110	0	110	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	1.00	0.00	0.85	0.00
Uniform Delay (d1), s/veh	36.4	0.0	0.0	31.7	43.7	0.0	43.3	0.0
Incr Delay (d2), s/veh	12.3	0.0	0.0	0.4	27.6	0.0	22.6	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	48.6	0.0	0.0	32.1	71.3	0.0	65.9	0.0
1st-Term Q (Q1), veh/ln	5.8	0.0	0.0	1.3	0.7	0.0	1.1	0.0
2nd-Term Q (Q2), veh/ln	0.9	0.0	0.0	0.0	0.3	0.0	0.3	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	6.7	0.0	0.0	1.3	1.0	0.0	1.4	0.0
%ile Storage Ratio (RQ%)	1.76	0.00	0.00	0.59	0.22	0.00	0.21	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	0	6	0	8
Lane Assignment		T	T			T		T
Lanes in Grp	0	1	1	0	0	1	0	1
Grp Vol (v), veh/h	0	325	123	0	0	118	0	148
Grp Sat Flow (s), veh/h/ln	0	1641	1641	0	0	1641	0	1641
Q Serve Time (g_s), s	0.0	15.6	6.0	0.0	0.0	3.9	0.0	6.1
Cycle Q Clear Time (g_c), s	0.0	15.6	6.0	0.0	0.0	3.9	0.0	6.1
Lane Grp Cap (c), veh/h	0	492	292	0	0	731	0	528
V/C Ratio (X)	0.00	0.66	0.42	0.00	0.00	0.16	0.00	0.28
Avail Cap (c_a), veh/h	0	492	292	0	0	784	0	528
Upstream Filter (I)	0.00	1.00	0.85	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	27.5	32.9	0.0	0.0	14.9	0.0	22.8
Incr Delay (d2), s/veh	0.0	3.3	3.8	0.0	0.0	0.1	0.0	1.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	30.7	36.6	0.0	0.0	15.0	0.0	24.1
1st-Term Q (Q1), veh/ln	0.0	7.0	2.7	0.0	0.0	1.7	0.0	2.8
2nd-Term Q (Q2), veh/ln	0.0	0.4	0.3	0.0	0.0	0.0	0.0	0.2

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	7.5	3.0	0.0	0.0	1.8	0.0	2.9
%ile Storage Ratio (RQ%)	0.00	0.47	0.03	0.00	0.00	0.01	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	14	0	0	16	0	18
Lane Assignment		T+R	T+R			T+R		T+R
Lanes in Grp	0	1	1	0	0	1	0	1
Grp Vol (v), veh/h	0	543	125	0	0	120	0	172
Grp Sat Flow (s), veh/h/ln	0	1468	1599	0	0	1600	0	1468
Q Serve Time (g_s), s	0.0	27.0	6.3	0.0	0.0	4.0	0.0	8.1
Cycle Q Clear Time (g_c), s	0.0	27.0	6.3	0.0	0.0	4.0	0.0	8.1
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.46	0.00	0.00	0.45	0.00	1.00
Lane Grp Cap (c), veh/h	0	440	284	0	0	712	0	472
V/C Ratio (X)	0.00	1.23	0.44	0.00	0.00	0.17	0.00	0.36
Avail Cap (c_a), veh/h	0	440	284	0	0	765	0	472
Upstream Filter (I)	0.00	1.00	0.85	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	31.5	33.0	0.0	0.0	15.0	0.0	23.4
Incr Delay (d2), s/veh	0.0	123.2	4.1	0.0	0.0	0.1	0.0	2.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	154.7	37.2	0.0	0.0	15.1	0.0	25.6
1st-Term Q (Q1), veh/ln	0.0	10.9	2.8	0.0	0.0	1.8	0.0	3.3
2nd-Term Q (Q2), veh/ln	0.0	15.1	0.3	0.0	0.0	0.0	0.0	0.3
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	26.0	3.1	0.0	0.0	1.8	0.0	3.6
%ile Storage Ratio (RQ%)	0.00	1.64	0.03	0.00	0.00	0.01	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	25.6	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	65.1
HCM 2010 LOS	E



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	40	176	52	55	136	158	28	299	500	220	169	50
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	43	191	57	60	148	172	30	325	543	239	184	54
Adj No. of Lanes	1	2	0	1	2	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	52	446	130	289	528	472	39	492	440	277	1123	320
Arrive On Green	0.03	0.18	0.18	0.18	0.32	0.32	0.02	0.30	0.30	0.17	0.45	0.45
Sat Flow, veh/h	1645	2511	729	1645	1641	1468	1645	1641	1468	1645	2521	720
Grp Volume(v), veh/h	43	123	125	60	148	172	30	325	543	239	118	120
Grp Sat Flow(s),veh/h/ln	1645	1641	1599	1645	1641	1468	1645	1641	1468	1645	1641	1600
Q Serve(g_s), s	2.3	6.0	6.3	2.8	6.1	8.1	1.6	15.6	27.0	12.7	3.9	4.0
Cycle Q Clear(g_c), s	2.3	6.0	6.3	2.8	6.1	8.1	1.6	15.6	27.0	12.7	3.9	4.0
Prop In Lane	1.00		0.46	1.00		1.00	1.00		1.00	1.00		0.45
Lane Grp Cap(c), veh/h	52	292	284	289	528	472	39	492	440	277	731	712
V/C Ratio(X)	0.82	0.42	0.44	0.21	0.28	0.36	0.78	0.66	1.23	0.86	0.16	0.17
Avail Cap(c_a), veh/h	110	292	284	289	528	472	110	492	440	402	784	765
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.85	0.85	0.85	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	43.3	32.9	33.0	31.7	22.8	23.4	43.7	27.5	31.5	36.4	14.9	15.0
Incr Delay (d2), s/veh	22.6	3.8	4.1	0.4	1.3	2.2	27.6	3.3	123.2	12.3	0.1	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.4	3.0	3.1	1.3	2.9	3.6	1.0	7.5	26.0	6.7	1.8	1.8
LnGrp Delay(d),s/veh	65.9	36.6	37.2	32.1	24.1	25.6	71.3	30.7	154.7	48.6	15.0	15.1
LnGrp LOS	E	D	D	C	C	C	E	C	F	D	B	B
Approach Vol, veh/h		291			380			898			477	
Approach Delay, s/veh		41.2			26.0			107.0			31.9	
Approach LOS		D			C			F			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	19.2	31.0	19.8	20.0	6.1	44.1	6.9	33.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	12.0	27.0	9.0	16.0	6.0	43.0	6.0	19.0
Max Q Clear Time (g_c+I1), s	4.3	29.0	4.8	8.3	3.6	6.0	4.3	10.1
Green Ext Time (p_c), s	0.5	0.0	0.6	0.5	0.0	5.0	0.0	0.9

Intersection Summary	
HCM 2010 Ctrl Delay	65.1
HCM 2010 LOS	E

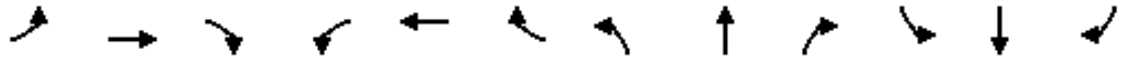
Intersection	
Int Delay, s/veh	4.3

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	210	354	33	94	148	40
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	228	385	36	102	161	43

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	613	0	595	421
Stage 1	-	-	-	-	421	-
Stage 2	-	-	-	-	174	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	929	-	454	616
Stage 1	-	-	-	-	645	-
Stage 2	-	-	-	-	837	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	929	-	435	616
Mov Cap-2 Maneuver	-	-	-	-	435	-
Stage 1	-	-	-	-	645	-
Stage 2	-	-	-	-	803	-

Approach	EB	WB	NB
HCM Control Delay, s	0	2.3	18.7
HCM LOS			C

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	464	-	-	929	-
HCM Lane V/C Ratio	0.44	-	-	0.039	-
HCM Control Delay (s)	18.7	-	-	9	0
HCM Lane LOS	C	-	-	A	A
HCM 95th %tile Q(veh)	2.2	-	-	0.1	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	134	895	79	146	722	185	103	362	180	105	800	56
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	146	973	86	159	785	201	112	393	196	114	870	61
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	173	1037	464	187	1064	476	201	443	376	502	956	428
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.11	0.32	0.32	0.11	0.32	0.32	0.12	0.26	0.26	0.16	0.29	0.29
Ln Grp Delay, s/veh	69.9	48.8	25.5	64.0	32.4	11.8	45.5	58.8	37.6	37.7	44.7	15.1
Ln Grp LOS	E	D	C	E	C	B	D	E	D	D	D	B
Approach Vol, veh/h		1205			1145			701			1045	
Approach Delay, s/veh		49.7			33.2			50.8			42.2	
Approach LOS		D			C			D			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	6	5	7	8
Case No	3.0	2.0	3.0	2.0	3.0	2.0	2.0	3.0
Phs Duration (G+Y+Rc), s	30.1	20.0	36.2	15.6	33.7	16.5	14.8	37.1
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	36.0	5.0	33.0	12.0	32.0	9.0	12.0	33.0
Max Allow Headway (MAH), s	4.1	4.1	4.0	4.1	4.0	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	24.3	5.2	31.4	11.7	28.1	8.5	10.9	23.7
Green Ext Time (g_e), s	1.8	0.0	0.8	0.0	1.6	0.0	0.0	3.5
Prob of Phs Call (p_c)	1.00	0.96	1.00	0.99	1.00	0.96	0.98	1.00
Prob of Max Out (p_x)	0.08	1.00	1.00	1.00	1.00	1.00	1.00	0.39

Left-Turn Movement Data								
Assigned Mvmt		1		3		5	7	
Mvmt Sat Flow, veh/h		3191		1645		1645	1645	

Through Movement Data								
Assigned Mvmt	2		4		6			8
Mvmt Sat Flow, veh/h	1727		3282		3282			3282

Right-Turn Movement Data								
Assigned Mvmt	12		14		16			18
Mvmt Sat Flow, veh/h	1468		1468		1468			1468

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	0	5	7	0
Lane Assignment		(Prot)		(Prot)		(Prot)	(Prot)	
Lanes in Grp	0	2	0	1	0	1	1	0

Grp Vol (v), veh/h	0	114	0	159	0	112	146	0
Grp Sat Flow (s), veh/h/ln	0	1596	0	1645	0	1645	1645	0
Q Serve Time (g_s), s	0.0	3.2	0.0	9.7	0.0	6.5	8.9	0.0
Cycle Q Clear Time (g_c), s	0.0	3.2	0.0	9.7	0.0	6.5	8.9	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	502	0	187	0	201	173	0
V/C Ratio (X)	0.00	0.23	0.00	0.85	0.00	0.56	0.84	0.00
Avail Cap (c_a), veh/h	0	502	0	194	0	201	194	0
Upstream Filter (I)	0.00	0.64	0.00	0.63	0.00	1.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	37.6	0.0	44.4	0.0	42.2	44.8	0.0
Incr Delay (d2), s/veh	0.0	0.1	0.0	19.6	0.0	3.4	25.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	37.7	0.0	64.0	0.0	45.5	69.9	0.0
1st-Term Q (Q1), veh/ln	0.0	1.4	0.0	4.4	0.0	3.0	4.1	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	1.0	0.0	0.2	1.2	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	1.4	0.0	5.4	0.0	3.2	5.3	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.03	0.00	0.03	0.01	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	6	0	0	8
Lane Assignment	T		T		T			T
Lanes in Grp	1	0	2	0	2	0	0	2
Grp Vol (v), veh/h	393	0	973	0	870	0	0	785
Grp Sat Flow (s), veh/h/ln	1727	0	1641	0	1641	0	0	1641
Q Serve Time (g_s), s	22.3	0.0	29.4	0.0	26.1	0.0	0.0	21.7
Cycle Q Clear Time (g_c), s	22.3	0.0	29.4	0.0	26.1	0.0	0.0	21.7
Lane Grp Cap (c), veh/h	443	0	1037	0	956	0	0	1064
V/C Ratio (X)	0.89	0.00	0.94	0.00	0.91	0.00	0.00	0.74
Avail Cap (c_a), veh/h	610	0	1062	0	1030	0	0	1064
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.64	0.00	0.00	0.63
Uniform Delay (d1), s/veh	36.5	0.0	33.9	0.0	34.9	0.0	0.0	30.6
Incr Delay (d2), s/veh	22.3	0.0	14.9	0.0	9.9	0.0	0.0	1.8
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	58.8	0.0	48.8	0.0	44.7	0.0	0.0	32.4
1st-Term Q (Q1), veh/ln	10.6	0.0	13.2	0.0	11.8	0.0	0.0	9.8
2nd-Term Q (Q2), veh/ln	2.7	0.0	2.1	0.0	1.3	0.0	0.0	0.3

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	13.3	0.0	15.4	0.0	13.2	0.0	0.0	10.1
%ile Storage Ratio (RQ%)	0.11	0.00	0.02	0.00	0.02	0.00	0.00	0.05
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

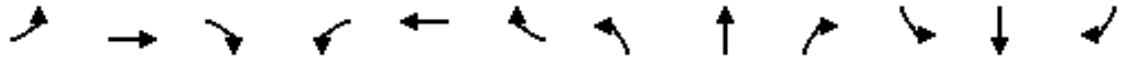
Right Lane Group Data								
Assigned Mvmt	12	0	14	0	16	0	0	18
Lane Assignment	R		R		R			R
Lanes in Grp	1	0	1	0	1	0	0	1
Grp Vol (v), veh/h	196	0	86	0	61	0	0	201
Grp Sat Flow (s), veh/h/ln	1468	0	1468	0	1468	0	0	1468
Q Serve Time (g_s), s	11.7	0.0	4.3	0.0	2.3	0.0	0.0	7.1
Cycle Q Clear Time (g_c), s	11.7	0.0	4.3	0.0	2.3	0.0	0.0	7.1
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	376	0	464	0	428	0	0	476
V/C Ratio (X)	0.52	0.00	0.19	0.00	0.14	0.00	0.00	0.42
Avail Cap (c_a), veh/h	518	0	475	0	461	0	0	476
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.64	0.00	0.00	0.63
Uniform Delay (d1), s/veh	32.6	0.0	25.3	0.0	14.7	0.0	0.0	11.4
Incr Delay (d2), s/veh	5.1	0.0	0.2	0.0	0.4	0.0	0.0	0.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	37.6	0.0	25.5	0.0	15.1	0.0	0.0	11.8
1st-Term Q (Q1), veh/ln	4.7	0.0	1.8	0.0	0.9	0.0	0.0	2.8
2nd-Term Q (Q2), veh/ln	0.5	0.0	0.0	0.0	0.1	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	5.3	0.0	1.8	0.0	1.0	0.0	0.0	2.9
%ile Storage Ratio (RQ%)	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	43.3
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	134	895	79	146	722	185	103	362	180	105	800	56
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	146	973	86	159	785	201	112	393	196	114	870	61
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	173	1037	464	187	1064	476	201	443	376	502	956	428
Arrive On Green	0.11	0.32	0.32	0.11	0.32	0.32	0.12	0.26	0.26	0.16	0.29	0.29
Sat Flow, veh/h	1645	3282	1468	1645	3282	1468	1645	1727	1468	3191	3282	1468
Grp Volume(v), veh/h	146	973	86	159	785	201	112	393	196	114	870	61
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1641	1468	1645	1727	1468	1596	1641	1468
Q Serve(g_s), s	8.9	29.4	4.3	9.7	21.7	7.1	6.5	22.3	11.7	3.2	26.1	2.3
Cycle Q Clear(g_c), s	8.9	29.4	4.3	9.7	21.7	7.1	6.5	22.3	11.7	3.2	26.1	2.3
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	173	1037	464	187	1064	476	201	443	376	502	956	428
V/C Ratio(X)	0.84	0.94	0.19	0.85	0.74	0.42	0.56	0.89	0.52	0.23	0.91	0.14
Avail Cap(c_a), veh/h	194	1062	475	194	1064	476	201	610	518	502	1030	461
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.63	0.63	0.63	1.00	1.00	1.00	0.64	0.64	0.64
Uniform Delay (d), s/veh	44.8	33.9	25.3	44.4	30.6	11.4	42.2	36.5	32.6	37.6	34.9	14.7
Incr Delay (d2), s/veh	25.1	14.9	0.2	19.6	1.8	0.4	3.4	22.3	5.1	0.1	9.9	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.3	15.4	1.8	5.4	10.1	2.9	3.2	13.3	5.3	1.4	13.2	1.0
LnGrp Delay(d),s/veh	69.9	48.8	25.5	64.0	32.4	11.8	45.5	58.8	37.6	37.7	44.7	15.1
LnGrp LOS	E	D	C	E	C	B	D	E	D	D	D	B
Approach Vol, veh/h		1205			1145			701			1045	
Approach Delay, s/veh		49.7			33.2			50.8			42.2	
Approach LOS		D			C			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	20.0	30.1	15.6	36.2	16.5	33.7	14.8	37.1
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	16.0	36.0	12.0	33.0	9.0	32.0	12.0	33.0
Max Q Clear Time (g_c+I1), s	15.2	24.3	11.7	31.4	8.5	28.1	10.9	23.7
Green Ext Time (p_c), s	0.0	1.8	0.0	0.8	0.0	1.6	0.0	3.5

Intersection Summary	
HCM 2010 Ctrl Delay	43.3
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	129	1112	165	160	664	62	165	564	238	270	908	73
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	140	1209	179	174	722	67	179	613	259	293	987	79
Adj No. of Lanes	2	2	1	2	2	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	676	1310	586	233	854	382	416	1228	382	353	1136	354
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.21	0.40	0.40	0.07	0.26	0.26	0.13	0.26	0.26	0.11	0.24	0.24
Ln Grp Delay, s/veh	33.2	35.0	21.1	53.6	37.8	16.4	40.9	32.2	22.3	47.3	39.1	31.3
Ln Grp LOS	C	D	C	D	D	B	D	C	C	D	D	C
Approach Vol, veh/h		1528			963			1051			1359	
Approach Delay, s/veh		33.2			39.1			31.2			40.4	
Approach LOS		C			D			C			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	6	5	8	7
Case No	2.0	3.0	3.0	2.0	3.0	2.0	3.0	2.0
Phs Duration (G+Y+Rc), s	15.3	30.6	44.7	11.4	28.6	17.3	30.5	25.6
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	12.0	23.0	43.0	8.0	27.0	8.0	42.0	9.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.0	4.1	4.0	4.1
Max Q Clear (g_c+I1), s	11.2	14.8	37.7	7.5	22.5	7.3	23.3	5.7
Green Ext Time (g_e), s	0.1	3.0	3.0	0.0	2.1	0.4	3.3	0.4
Prob of Phs Call (p_c)	1.00	1.00	1.00	0.99	1.00	0.99	1.00	0.98
Prob of Max Out (p_x)	1.00	0.44	0.85	1.00	0.91	1.00	0.02	1.00

Left-Turn Movement Data								
Assigned Mvmt	1			3		5		7
Mvmt Sat Flow, veh/h	3191			3191		3191		3191

Through Movement Data								
Assigned Mvmt		2	4		6		8	
Mvmt Sat Flow, veh/h		4715	3282		4715		3282	

Right-Turn Movement Data								
Assigned Mvmt		12	14		16		18	
Mvmt Sat Flow, veh/h		1468	1468		1468		1468	

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	0	5	0	7
Lane Assignment	(Prot)			(Prot)		(Prot)		(Prot)
Lanes in Grp	2	0	0	2	0	2	0	2

Grp Vol (v), veh/h	293	0	0	174	0	179	0	140
Grp Sat Flow (s), veh/h/ln	1596	0	0	1596	0	1596	0	1596
Q Serve Time (g_s), s	9.2	0.0	0.0	5.5	0.0	5.3	0.0	3.7
Cycle Q Clear Time (g_c), s	9.2	0.0	0.0	5.5	0.0	5.3	0.0	3.7
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	353	0	0	233	0	416	0	676
V/C Ratio (X)	0.83	0.00	0.00	0.75	0.00	0.43	0.00	0.21
Avail Cap (c_a), veh/h	375	0	0	250	0	416	0	676
Upstream Filter (I)	0.18	0.00	0.00	0.65	0.00	0.09	0.00	0.52
Uniform Delay (d1), s/veh	44.4	0.0	0.0	46.4	0.0	40.9	0.0	33.1
Incr Delay (d2), s/veh	2.9	0.0	0.0	7.3	0.0	0.1	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	47.3	0.0	0.0	53.6	0.0	40.9	0.0	33.2
1st-Term Q (Q1), veh/ln	4.0	0.0	0.0	2.4	0.0	2.3	0.0	1.6
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	4.2	0.0	0.0	2.6	0.0	2.3	0.0	1.6
%ile Storage Ratio (RQ%)	0.01	0.00	0.00	0.01	0.00	0.01	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	6	0	8	0
Lane Assignment		T	T		T		T	
Lanes in Grp	0	3	2	0	3	0	2	0
Grp Vol (v), veh/h	0	613	1209	0	987	0	722	0
Grp Sat Flow (s), veh/h/ln	0	1572	1641	0	1572	0	1641	0
Q Serve Time (g_s), s	0.0	11.3	35.7	0.0	20.5	0.0	21.3	0.0
Cycle Q Clear Time (g_c), s	0.0	11.3	35.7	0.0	20.5	0.0	21.3	0.0
Lane Grp Cap (c), veh/h	0	1228	1310	0	1136	0	854	0
V/C Ratio (X)	0.00	0.50	0.92	0.00	0.87	0.00	0.85	0.00
Avail Cap (c_a), veh/h	0	1228	1384	0	1248	0	1351	0
Upstream Filter (I)	0.00	0.09	0.52	0.00	0.18	0.00	0.65	0.00
Uniform Delay (d1), s/veh	0.0	32.1	29.2	0.0	37.2	0.0	35.8	0.0
Incr Delay (d2), s/veh	0.0	0.1	5.9	0.0	1.9	0.0	2.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	32.2	35.0	0.0	39.1	0.0	37.8	0.0
1st-Term Q (Q1), veh/ln	0.0	4.9	16.1	0.0	8.9	0.0	9.6	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	1.1	0.0	0.2	0.0	0.2	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	4.9	17.2	0.0	9.1	0.0	9.9	0.0
%ile Storage Ratio (RQ%)	0.00	0.01	0.09	0.00	0.01	0.00	0.02	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

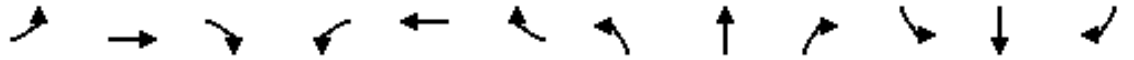
Right Lane Group Data								
Assigned Mvmt	0	12	14	0	16	0	18	0
Lane Assignment		R	R		R		R	
Lanes in Grp	0	1	1	0	1	0	1	0
Grp Vol (v), veh/h	0	259	179	0	79	0	67	0
Grp Sat Flow (s), veh/h/ln	0	1468	1468	0	1468	0	1468	0
Q Serve Time (g_s), s	0.0	12.8	8.5	0.0	4.4	0.0	2.7	0.0
Cycle Q Clear Time (g_c), s	0.0	12.8	8.5	0.0	4.4	0.0	2.7	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	382	586	0	354	0	382	0
V/C Ratio (X)	0.00	0.68	0.31	0.00	0.22	0.00	0.18	0.00
Avail Cap (c_a), veh/h	0	382	619	0	389	0	605	0
Upstream Filter (I)	0.00	0.09	0.52	0.00	0.18	0.00	0.65	0.00
Uniform Delay (d1), s/veh	0.0	21.4	21.0	0.0	31.1	0.0	16.2	0.0
Incr Delay (d2), s/veh	0.0	0.9	0.2	0.0	0.3	0.0	0.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	22.3	21.1	0.0	31.3	0.0	16.4	0.0
1st-Term Q (Q1), veh/ln	0.0	5.2	3.4	0.0	1.8	0.0	1.1	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	5.3	3.5	0.0	1.8	0.0	1.1	0.0
%ile Storage Ratio (RQ%)	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	36.0
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	129	1112	165	160	664	62	165	564	238	270	908	73
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	140	1209	179	174	722	67	179	613	259	293	987	79
Adj No. of Lanes	2	2	1	2	2	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	676	1310	586	233	854	382	416	1228	382	353	1136	354
Arrive On Green	0.21	0.40	0.40	0.07	0.26	0.26	0.13	0.26	0.26	0.11	0.24	0.24
Sat Flow, veh/h	3191	3282	1468	3191	3282	1468	3191	4715	1468	3191	4715	1468
Grp Volume(v), veh/h	140	1209	179	174	722	67	179	613	259	293	987	79
Grp Sat Flow(s),veh/h/ln	1596	1641	1468	1596	1641	1468	1596	1572	1468	1596	1572	1468
Q Serve(g_s), s	3.7	35.7	8.5	5.5	21.3	2.7	5.3	11.3	12.8	9.2	20.5	4.4
Cycle Q Clear(g_c), s	3.7	35.7	8.5	5.5	21.3	2.7	5.3	11.3	12.8	9.2	20.5	4.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	676	1310	586	233	854	382	416	1228	382	353	1136	354
V/C Ratio(X)	0.21	0.92	0.31	0.75	0.85	0.18	0.43	0.50	0.68	0.83	0.87	0.22
Avail Cap(c_a), veh/h	676	1384	619	250	1351	605	416	1228	382	375	1248	389
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.52	0.52	0.52	0.65	0.65	0.65	0.09	0.09	0.09	0.18	0.18	0.18
Uniform Delay (d), s/veh	33.1	29.2	21.0	46.4	35.8	16.2	40.9	32.1	21.4	44.4	37.2	31.1
Incr Delay (d2), s/veh	0.1	5.9	0.2	7.3	2.0	0.1	0.1	0.1	0.9	2.9	1.9	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.6	17.2	3.5	2.6	9.9	1.1	2.3	4.9	5.3	4.2	9.1	1.8
LnGrp Delay(d),s/veh	33.2	35.0	21.1	53.6	37.8	16.4	40.9	32.2	22.3	47.3	39.1	31.3
LnGrp LOS	C	D	C	D	D	B	D	C	C	D	D	C
Approach Vol, veh/h		1528			963			1051			1359	
Approach Delay, s/veh		33.2			39.1			31.2			40.4	
Approach LOS		C			D			C			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	15.3	30.6	11.4	44.7	17.3	28.6	25.6	30.5
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	11.0	23.0	8.0	43.0	8.0	27.0	9.0	42.0
Max Q Clear Time (g_c+I1), s	11.2	14.8	7.5	37.7	7.3	22.5	5.7	23.3
Green Ext Time (p_c), s	0.1	3.0	0.0	3.0	0.4	2.1	0.4	3.3

Intersection Summary	
HCM 2010 Ctrl Delay	36.0
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	225	379	103	147	730	88	111	1111	156	129	708	83
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	245	412	112	160	793	96	121	1208	170	140	770	90
Adj No. of Lanes	2	3	1	2	3	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	315	1140	355	224	1005	313	1027	2208	687	201	987	307
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.10	0.24	0.24	0.07	0.21	0.21	0.32	0.47	0.47	0.06	0.21	0.21
Ln Grp Delay, s/veh	49.7	32.3	7.6	50.6	41.2	34.3	24.4	20.4	17.2	51.1	44.2	22.9
Ln Grp LOS	D	C	A	D	D	C	C	C	B	D	D	C
Approach Vol, veh/h		769			1049			1499			1000	
Approach Delay, s/veh		34.2			42.0			20.3			43.2	
Approach LOS		C			D			C			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	6	5	7	8
Case No	2.0	3.0	2.0	3.0	3.0	2.0	2.0	3.0
Phs Duration (G+Y+Rc), s	10.4	51.8	11.2	28.7	25.4	36.8	14.1	25.7
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	11.0	35.0	12.0	28.0	36.0	10.0	15.0	25.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	6.4	20.7	7.0	9.4	17.7	4.7	9.6	18.2
Green Ext Time (g_e), s	0.2	6.1	0.2	6.2	3.6	3.1	0.4	3.5
Prob of Phs Call (p_c)	0.98	1.00	0.99	1.00	1.00	0.97	1.00	1.00
Prob of Max Out (p_x)	0.63	0.28	0.47	0.13	0.02	0.86	0.42	0.68

Left-Turn Movement Data								
Assigned Mvmt	1		3			5	7	
Mvmt Sat Flow, veh/h	3191		3191			3191	3191	

Through Movement Data								
Assigned Mvmt		2		4	6			8
Mvmt Sat Flow, veh/h		4715		4715	4715			4715

Right-Turn Movement Data								
Assigned Mvmt		12		14	16			18
Mvmt Sat Flow, veh/h		1468		1468	1468			1468

Left Lane Group Data								
Assigned Mvmt	1	0	3	0	0	5	7	0
Lane Assignment	(Prot)		(Prot)			(Prot)	(Prot)	
Lanes in Grp	2	0	2	0	0	2	2	0

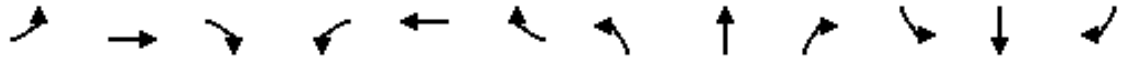
Grp Vol (v), veh/h	140	0	160	0	0	121	245	0
Grp Sat Flow (s), veh/h/ln	1596	0	1596	0	0	1596	1596	0
Q Serve Time (g_s), s	4.4	0.0	5.0	0.0	0.0	2.7	7.6	0.0
Cycle Q Clear Time (g_c), s	4.4	0.0	5.0	0.0	0.0	2.7	7.6	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	201	0	224	0	0	1027	315	0
V/C Ratio (X)	0.70	0.00	0.71	0.00	0.00	0.12	0.78	0.00
Avail Cap (c_a), veh/h	344	0	375	0	0	1027	469	0
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.00	1.00	1.00	0.00
Uniform Delay (d1), s/veh	46.8	0.0	46.4	0.0	0.0	24.4	44.9	0.0
Incr Delay (d2), s/veh	4.3	0.0	4.2	0.0	0.0	0.1	4.8	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	51.1	0.0	50.6	0.0	0.0	24.4	49.7	0.0
1st-Term Q (Q1), veh/ln	1.9	0.0	2.2	0.0	0.0	1.2	3.4	0.0
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.1	0.0	0.0	0.0	0.2	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	2.0	0.0	2.3	0.0	0.0	1.2	3.6	0.0
%ile Storage Ratio (RQ%)	0.02	0.00	0.05	0.00	0.00	0.01	0.05	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	6	0	0	8
Lane Assignment		T		T	T			T
Lanes in Grp	0	3	0	3	3	0	0	3
Grp Vol (v), veh/h	0	1208	0	412	770	0	0	793
Grp Sat Flow (s), veh/h/ln	0	1572	0	1572	1572	0	0	1572
Q Serve Time (g_s), s	0.0	18.7	0.0	7.4	15.7	0.0	0.0	16.2
Cycle Q Clear Time (g_c), s	0.0	18.7	0.0	7.4	15.7	0.0	0.0	16.2
Lane Grp Cap (c), veh/h	0	2208	0	1140	987	0	0	1005
V/C Ratio (X)	0.00	0.55	0.00	0.36	0.78	0.00	0.00	0.79
Avail Cap (c_a), veh/h	0	2208	0	1294	1664	0	0	1156
Upstream Filter (I)	0.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	19.4	0.0	32.1	38.1	0.0	0.0	38.0
Incr Delay (d2), s/veh	0.0	1.0	0.0	0.2	6.1	0.0	0.0	3.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	20.4	0.0	32.3	44.2	0.0	0.0	41.2
1st-Term Q (Q1), veh/ln	0.0	8.1	0.0	3.2	6.8	0.0	0.0	7.0
2nd-Term Q (Q2), veh/ln	0.0	0.2	0.0	0.0	0.6	0.0	0.0	0.3

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	8.3	0.0	3.2	7.4	0.0	0.0	7.4
%ile Storage Ratio (RQ%)	0.00	0.05	0.00	0.04	0.06	0.00	0.00	0.15
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	16	0	0	18
Lane Assignment		R		R	R			R
Lanes in Grp	0	1	0	1	1	0	0	1
Grp Vol (v), veh/h	0	170	0	112	90	0	0	96
Grp Sat Flow (s), veh/h/ln	0	1468	0	1468	1468	0	0	1468
Q Serve Time (g_s), s	0.0	7.1	0.0	3.0	4.1	0.0	0.0	5.6
Cycle Q Clear Time (g_c), s	0.0	7.1	0.0	3.0	4.1	0.0	0.0	5.6
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	687	0	355	307	0	0	313
V/C Ratio (X)	0.00	0.25	0.00	0.32	0.29	0.00	0.00	0.31
Avail Cap (c_a), veh/h	0	687	0	403	518	0	0	360
Upstream Filter (I)	0.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	16.3	0.0	7.1	20.5	0.0	0.0	33.8
Incr Delay (d2), s/veh	0.0	0.9	0.0	0.5	2.4	0.0	0.0	0.5
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	17.2	0.0	7.6	22.9	0.0	0.0	34.3
1st-Term Q (Q1), veh/ln	0.0	2.8	0.0	1.2	1.7	0.0	0.0	2.3
2nd-Term Q (Q2), veh/ln	0.0	0.2	0.0	0.0	0.2	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	3.0	0.0	1.2	1.9	0.0	0.0	2.3
%ile Storage Ratio (RQ%)	0.00	0.02	0.00	0.02	0.02	0.00	0.00	0.05
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	33.4
HCM 2010 LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	225	379	103	147	730	88	111	1111	156	129	708	83
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	245	412	112	160	793	96	121	1208	170	140	770	90
Adj No. of Lanes	2	3	1	2	3	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	315	1140	355	224	1005	313	1027	2208	687	201	987	307
Arrive On Green	0.10	0.24	0.24	0.07	0.21	0.21	0.32	0.47	0.47	0.06	0.21	0.21
Sat Flow, veh/h	3191	4715	1468	3191	4715	1468	3191	4715	1468	3191	4715	1468
Grp Volume(v), veh/h	245	412	112	160	793	96	121	1208	170	140	770	90
Grp Sat Flow(s),veh/h/ln	1596	1572	1468	1596	1572	1468	1596	1572	1468	1596	1572	1468
Q Serve(g_s), s	7.6	7.4	3.0	5.0	16.2	5.6	2.7	18.7	7.1	4.4	15.7	4.1
Cycle Q Clear(g_c), s	7.6	7.4	3.0	5.0	16.2	5.6	2.7	18.7	7.1	4.4	15.7	4.1
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	315	1140	355	224	1005	313	1027	2208	687	201	987	307
V/C Ratio(X)	0.78	0.36	0.32	0.71	0.79	0.31	0.12	0.55	0.25	0.70	0.78	0.29
Avail Cap(c_a), veh/h	469	1294	403	375	1156	360	1027	2208	687	344	1664	518
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	44.9	32.1	7.1	46.4	38.0	33.8	24.4	19.4	16.3	46.8	38.1	20.5
Incr Delay (d2), s/veh	4.8	0.2	0.5	4.2	3.3	0.5	0.1	1.0	0.9	4.3	6.1	2.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.6	3.2	1.2	2.3	7.4	2.3	1.2	8.3	3.0	2.0	7.4	1.9
LnGrp Delay(d),s/veh	49.7	32.3	7.6	50.6	41.2	34.3	24.4	20.4	17.2	51.1	44.2	22.9
LnGrp LOS	D	C	A	D	D	C	C	C	B	D	D	C
Approach Vol, veh/h		769			1049			1499			1000	
Approach Delay, s/veh		34.2			42.0			20.3			43.2	
Approach LOS		C			D			C			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.4	51.8	11.2	28.7	36.8	25.4	14.1	25.7
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	11.0	35.0	12.0	28.0	10.0	36.0	15.0	25.0
Max Q Clear Time (g_c+I1), s	6.4	20.7	7.0	9.4	4.7	17.7	9.6	18.2
Green Ext Time (p_c), s	0.2	6.1	0.2	6.2	3.1	3.6	0.4	3.5

Intersection Summary	
HCM 2010 Ctrl Delay	33.4
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	113	1105	539	202	861	10	774	98	71	21	178	137
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	123	1201	586	220	936	11	989	0	0	23	193	149
Adj No. of Lanes	1	2	1	1	3	0	2	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	151	948	424	165	1428	17	768	825	0	0	181	140
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00
Prop Arrive On Green	0.09	0.29	0.29	0.10	0.30	0.30	0.08	0.00	0.00	0.00	0.20	0.20
Ln Grp Delay, s/veh	42.4	152.9	205.1	227.5	29.3	30.6	178.2	0.0	0.0	0.0	0.0	104.9
Ln Grp LOS	D	F	F	F	C	C	F					F
Approach Vol, veh/h		1910			1167			989			342	
Approach Delay, s/veh		161.8			67.0			178.2			104.9	
Approach LOS		F			E			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	6	5	7	8
Case No	0.0	4.0	3.0	2.0	4.0	2.0	2.0	4.0
Phs Duration (G+Y+Rc), s	0.0	47.0	30.0	13.0	22.0	25.0	12.2	30.8
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	4.0	35.0	26.0	9.0	18.0	21.0	10.0	25.0
Max Allow Headway (MAH), s	0.0	0.0	4.1	4.0	4.2	4.1	4.1	4.0
Max Q Clear (g_c+I1), s	0.0	0.0	28.0	11.0	20.0	23.0	8.6	17.3
Green Ext Time (g_e), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
Prob of Phs Call (p_c)	0.00	1.00	1.00	1.00	1.00	1.00	0.95	1.00
Prob of Max Out (p_x)	0.00	0.00	1.00	1.00	1.00	1.00	1.00	0.52

Left-Turn Movement Data								
Assigned Mvmt	1			3		5	7	
Mvmt Sat Flow, veh/h	0			1645		3290	1645	

Through Movement Data								
Assigned Mvmt		2	4		6			8
Mvmt Sat Flow, veh/h		1727	3282		905			4805

Right-Turn Movement Data								
Assigned Mvmt		12	14		16			18
Mvmt Sat Flow, veh/h		0	1468		699			56

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	0	5	7	0
Lane Assignment				(Prot)		(Prot)	(Prot)	
Lanes in Grp	0	0	0	1	0	2	1	0

Grp Vol (v), veh/h	0	0	0	220	0	989	123	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1645	0	1645	1645	0
Q Serve Time (g_s), s	0.0	0.0	0.0	9.0	0.0	21.0	6.6	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	9.0	0.0	21.0	6.6	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	0	0	165	0	768	151	0
V/C Ratio (X)	0.00	0.00	0.00	1.34	0.00	1.29	0.82	0.00
Avail Cap (c_a), veh/h	0	0	0	165	0	768	183	0
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.70	0.09	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	40.5	0.0	41.5	40.1	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	187.0	0.0	136.7	2.3	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	227.5	0.0	178.2	42.4	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	4.1	0.0	9.6	3.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	8.5	0.0	14.6	0.1	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	12.6	0.0	24.1	3.1	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	1.03	0.00	2.07	0.57	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	13.9	0.0	55.3	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.0	0.3	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	6	0	0	8
Lane Assignment		T	T					T
Lanes in Grp	0	1	2	0	0	0	0	2
Grp Vol (v), veh/h	0	0	1201	0	0	0	0	612
Grp Sat Flow (s), veh/h/ln	0	1727	1641	0	0	0	0	1572
Q Serve Time (g_s), s	0.0	0.0	26.0	0.0	0.0	0.0	0.0	15.3
Cycle Q Clear Time (g_c), s	0.0	0.0	26.0	0.0	0.0	0.0	0.0	15.3
Lane Grp Cap (c), veh/h	0	825	948	0	0	0	0	934
V/C Ratio (X)	0.00	0.00	1.27	0.00	0.00	0.00	0.00	0.66
Avail Cap (c_a), veh/h	0	825	948	0	0	0	0	934
Upstream Filter (I)	0.00	0.00	0.09	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	32.0	0.0	0.0	0.0	0.0	27.6
Incr Delay (d2), s/veh	0.0	0.0	120.9	0.0	0.0	0.0	0.0	1.7
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	152.9	0.0	0.0	0.0	0.0	29.3
1st-Term Q (Q1), veh/ln	0.0	0.0	11.7	0.0	0.0	0.0	0.0	6.6
2nd-Term Q (Q2), veh/ln	0.0	0.0	15.9	0.0	0.0	0.0	0.0	0.2

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	27.6	0.0	0.0	0.0	0.0	6.8
%ile Storage Ratio (RQ%)	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.34
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	63.2	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data

Assigned Mvmt	0	12	14	0	16	0	0	18
Lane Assignment			R		T+R			T+R
Lanes in Grp	0	0	1	0	1	0	0	1
Grp Vol (v), veh/h	0	0	586	0	342	0	0	335
Grp Sat Flow (s), veh/h/ln	0	0	1468	0	1604	0	0	1717
Q Serve Time (g_s), s	0.0	0.0	26.0	0.0	18.0	0.0	0.0	15.3
Cycle Q Clear Time (g_c), s	0.0	0.0	26.0	0.0	18.0	0.0	0.0	15.3
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.00	1.00	0.00	0.44	0.00	0.00	0.03
Lane Grp Cap (c), veh/h	0	0	424	0	321	0	0	510
V/C Ratio (X)	0.00	0.00	1.38	0.00	1.07	0.00	0.00	0.66
Avail Cap (c_a), veh/h	0	0	424	0	321	0	0	510
Upstream Filter (I)	0.00	0.00	0.09	0.00	1.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	32.0	0.0	36.0	0.0	0.0	27.6
Incr Delay (d2), s/veh	0.0	0.0	173.1	0.0	68.9	0.0	0.0	3.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	205.1	0.0	104.9	0.0	0.0	30.6
1st-Term Q (Q1), veh/ln	0.0	0.0	10.5	0.0	7.9	0.0	0.0	7.3
2nd-Term Q (Q2), veh/ln	0.0	0.0	20.4	0.0	6.1	0.0	0.0	0.4
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	30.9	0.0	14.1	0.0	0.0	7.7
%ile Storage Ratio (RQ%)	0.00	0.00	6.56	0.00	0.25	0.00	0.00	0.38
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	40.5	0.0	5.3	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0

Intersection Summary

HCM 2010 Ctrl Delay	136.0
HCM 2010 LOS	F

Notes

User approved volume balancing among the lanes for turning movement.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	113	1105	539	202	861	10	774	98	71	21	178	137
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	123	1201	586	220	936	11	989	0	0	23	193	149
Adj No. of Lanes	1	2	1	1	3	0	2	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	151	948	424	165	1428	17	768	825	0	0	181	140
Arrive On Green	0.09	0.29	0.29	0.10	0.30	0.30	0.08	0.00	0.00	0.00	0.20	0.20
Sat Flow, veh/h	1645	3282	1468	1645	4805	56	3290	1727	0	0	905	699
Grp Volume(v), veh/h	123	1201	586	220	612	335	989	0	0	0	0	342
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1572	1717	1645	1727	0	0	0	1604
Q Serve(g_s), s	6.6	26.0	26.0	9.0	15.3	15.3	21.0	0.0	0.0	0.0	0.0	18.0
Cycle Q Clear(g_c), s	6.6	26.0	26.0	9.0	15.3	15.3	21.0	0.0	0.0	0.0	0.0	18.0
Prop In Lane	1.00		1.00	1.00		0.03	1.00		0.00	0.00		0.44
Lane Grp Cap(c), veh/h	151	948	424	165	934	510	768	825	0	0	0	321
V/C Ratio(X)	0.82	1.27	1.38	1.34	0.66	0.66	1.29	0.00	0.00	0.00	0.00	1.07
Avail Cap(c_a), veh/h	183	948	424	165	934	510	768	825	0	0	0	321
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00
Upstream Filter(I)	0.09	0.09	0.09	1.00	1.00	1.00	0.70	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d), s/veh	40.1	32.0	32.0	40.5	27.6	27.6	41.5	0.0	0.0	0.0	0.0	36.0
Incr Delay (d2), s/veh	2.3	120.9	173.1	187.0	1.7	3.0	136.7	0.0	0.0	0.0	0.0	68.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.1	27.6	30.9	12.6	6.8	7.7	24.1	0.0	0.0	0.0	0.0	14.1
LnGrp Delay(d),s/veh	42.4	152.9	205.1	227.5	29.3	30.6	178.2	0.0	0.0	0.0	0.0	104.9
LnGrp LOS	D	F	F	F	C	C	F					F
Approach Vol, veh/h		1910			1167			989			342	
Approach Delay, s/veh		161.8			67.0			178.2			104.9	
Approach LOS		F			E			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	0.0	47.0	13.0	30.0	25.0	22.0	12.2	30.8
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax),4s	0	35.0	9.0	26.0	21.0	18.0	10.0	25.0
Max Q Clear Time (g_c+I1),0s	0	0.0	11.0	28.0	23.0	20.0	8.6	17.3
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0

Intersection Summary		
HCM 2010 Ctrl Delay	136.0	
HCM 2010 LOS	F	

Notes

User approved volume balancing among the lanes for turning movement.



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Volume (veh/h)	239	439	68	227	744	101
Number	3	18	2	12	1	6
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	260	477	74	247	809	110
Adj No. of Lanes	2	1	1	1	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Opposing Right Turn Influence	Yes				Yes	
Cap, veh/h	957	440	327	278	1204	1056
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.67	1.67
Prop Arrive On Green	0.30	0.30	0.19	0.19	0.63	1.00
Ln Grp Delay, s/veh	24.2	98.5	32.5	67.2	13.2	0.0
Ln Grp LOS	C	F	C	E	B	A
Approach Vol, veh/h	737		321			919
Approach Delay, s/veh	72.3		59.2			11.6
Approach LOS	E		E			B

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	8			6		
Case No	7.0	2.0	9.0			4.0		
Phs Duration (G+Y+Rc), s	21.0	38.0	31.0			59.0		
Change Period (Y+Rc), s	4.0	4.0	4.0			4.0		
Max Green (Gmax), s	19.0	32.0	27.0			55.0		
Max Allow Headway (MAH), s	4.3	4.1	4.3			4.1		
Max Q Clear (g_c+I1), s	16.8	16.6	29.0			2.0		
Green Ext Time (g_e), s	0.3	3.7	0.0			4.5		
Prob of Phs Call (p_c)	1.00	1.00	1.00			1.00		
Prob of Max Out (p_x)	1.00	0.07	1.00			0.00		

Left-Turn Movement Data								
Assigned Mvmt	5	1	3					
Mvmt Sat Flow, veh/h	0	3191	3191					

Through Movement Data								
Assigned Mvmt	2		8			6		
Mvmt Sat Flow, veh/h	1727		0			1727		

Right-Turn Movement Data								
Assigned Mvmt	12		18			16		
Mvmt Sat Flow, veh/h	1468		1468			0		

Left Lane Group Data								
Assigned Mvmt	5	1	3	0	0	0	0	0
Lane Assignment		(Prot)						
Lanes in Grp	0	2	2	0	0	0	0	0

Grp Vol (v), veh/h	0	809	260	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	1596	1596	0	0	0	0	0
Q Serve Time (g_s), s	0.0	14.6	5.6	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	14.6	5.6	0.0	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	1596	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	1204	957	0	0	0	0	0
V/C Ratio (X)	0.00	0.67	0.27	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	1204	957	0	0	0	0	0
Upstream Filter (I)	0.00	0.09	1.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	13.1	24.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	13.2	24.2	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	6.4	2.5	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	6.4	2.5	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.52	0.32	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	8	0	0	6	0	0
Lane Assignment	T					T		
Lanes in Grp	1	0	0	0	0	1	0	0
Grp Vol (v), veh/h	74	0	0	0	0	110	0	0
Grp Sat Flow (s), veh/h/ln	1727	0	0	0	0	1727	0	0
Q Serve Time (g_s), s	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	327	0	0	0	0	1056	0	0
V/C Ratio (X)	0.23	0.00	0.00	0.00	0.00	0.10	0.00	0.00
Avail Cap (c_a), veh/h	365	0	0	0	0	1056	0	0
Upstream Filter (I)	1.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00
Uniform Delay (d1), s/veh	30.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	32.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
%ile Back of Q (50%), veh/ln	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Right Lane Group Data								
Assigned Mvmt	12	0	18	0	0	16	0	0
Lane Assignment	R		R					
Lanes in Grp	1	0	1	0	0	0	0	0
Grp Vol (v), veh/h	247	0	477	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	1468	0	1468	0	0	0	0	0
Q Serve Time (g_s), s	14.8	0.0	27.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	14.8	0.0	27.0	0.0	0.0	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	278	0	440	0	0	0	0	0
V/C Ratio (X)	0.89	0.00	1.08	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	310	0	440	0	0	0	0	0
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	35.6	0.0	31.5	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	31.6	0.0	67.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	67.2	0.0	98.5	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	6.0	0.0	10.9	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	2.4	0.0	8.2	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
%ile Back of Q (50%), veh/ln	8.4	0.0	19.1	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	2.84	0.00	0.01	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	9.1	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	42.0
HCM 2010 LOS	D



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Volume (veh/h)	239	439	68	227	744	101
Number	3	18	2	12	1	6
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	260	477	74	247	809	110
Adj No. of Lanes	2	1	1	1	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Cap, veh/h	957	440	327	278	1204	1056
Arrive On Green	0.30	0.30	0.19	0.19	0.63	1.00
Sat Flow, veh/h	3191	1468	1727	1468	3191	1727
Grp Volume(v), veh/h	260	477	74	247	809	110
Grp Sat Flow(s),veh/h/ln	1596	1468	1727	1468	1596	1727
Q Serve(g_s), s	5.6	27.0	3.3	14.8	14.6	0.0
Cycle Q Clear(g_c), s	5.6	27.0	3.3	14.8	14.6	0.0
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	957	440	327	278	1204	1056
V/C Ratio(X)	0.27	1.08	0.23	0.89	0.67	0.10
Avail Cap(c_a), veh/h	957	440	365	310	1204	1056
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.67	1.67
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.09	0.09
Uniform Delay (d), s/veh	24.0	31.5	30.9	35.6	13.1	0.0
Incr Delay (d2), s/veh	0.2	67.0	1.6	31.6	0.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.5	19.1	1.7	8.4	6.4	0.0
LnGrp Delay(d),s/veh	24.2	98.5	32.5	67.2	13.2	0.0
LnGrp LOS	C	F	C	E	B	A
Approach Vol, veh/h	737		321			919
Approach Delay, s/veh	72.3		59.2			11.6
Approach LOS	E		E			B

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2				6		8
Phs Duration (G+Y+Rc), s	38.0	21.0				59.0		31.0
Change Period (Y+Rc), s	4.0	4.0				4.0		4.0
Max Green Setting (Gmax), s	32.0	19.0				55.0		27.0
Max Q Clear Time (g_c+I1), s	16.6	16.8				2.0		29.0
Green Ext Time (p_c), s	3.7	0.3				4.5		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	42.0
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	103	387	163	316	452	79	46	357	126	67	645	19
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	112	421	177	343	491	86	50	388	137	73	701	21
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	151	329	138	274	514	90	65	407	144	96	589	18
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.09	0.28	0.28	0.17	0.36	0.36	0.04	0.33	0.33	0.06	0.35	0.35
Ln Grp Delay, s/veh	62.6	0.0	178.7	172.2	0.0	49.3	92.1	0.0	61.6	75.8	0.0	134.4
Ln Grp LOS	E		F	F		D	F		E	E		F
Approach Vol, veh/h		710			920			575			795	
Approach Delay, s/veh		160.4			95.1			64.3			129.0	
Approach LOS		F			F			E			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	6	5	8	7
Case No	4.0	2.0	4.0	2.0	4.0	2.0	4.0	2.0
Phs Duration (G+Y+Rc), s	38.0	10.0	33.0	21.0	40.0	8.0	40.6	13.4
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	35.0	5.0	29.0	17.0	36.0	4.0	38.0	8.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.0	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	33.7	6.5	31.0	19.0	38.0	5.1	36.1	8.8
Green Ext Time (g_e), s	0.3	0.0	0.0	0.0	0.0	0.0	0.5	0.0
Prob of Phs Call (p_c)	1.00	0.87	1.00	1.00	1.00	0.76	1.00	0.96
Prob of Max Out (p_x)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt		1		3		5		7
Mvmt Sat Flow, veh/h		1645		1645		1645		1645

Through Movement Data								
Assigned Mvmt	2		4		6		8	
Mvmt Sat Flow, veh/h	1220		1156		1668		1432	

Right-Turn Movement Data								
Assigned Mvmt	12		14		16		18	
Mvmt Sat Flow, veh/h	431		486		50		251	

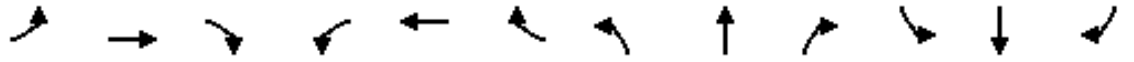
Left Lane Group Data								
Assigned Mvmt	0	1	0	3	0	5	0	7
Lane Assignment		(Prot)		(Prot)		(Prot)		(Prot)
Lanes in Grp	0	1	0	1	0	1	0	1

Grp Vol (v), veh/h	0	73	0	343	0	50	0	112
Grp Sat Flow (s), veh/h/ln	0	1645	0	1645	0	1645	0	1645
Q Serve Time (g_s), s	0.0	4.5	0.0	17.0	0.0	3.1	0.0	6.8
Cycle Q Clear Time (g_c), s	0.0	4.5	0.0	17.0	0.0	3.1	0.0	6.8
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	96	0	274	0	65	0	151
V/C Ratio (X)	0.00	0.76	0.00	1.25	0.00	0.78	0.00	0.74
Avail Cap (c_a), veh/h	0	96	0	274	0	65	0	151
Upstream Filter (I)	0.00	1.00	0.00	0.59	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	47.3	0.0	42.5	0.0	48.6	0.0	45.1
Incr Delay (d2), s/veh	0.0	28.5	0.0	129.7	0.0	43.5	0.0	17.5
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	75.8	0.0	172.2	0.0	92.1	0.0	62.6
1st-Term Q (Q1), veh/ln	0.0	2.0	0.0	7.7	0.0	1.4	0.0	3.1
2nd-Term Q (Q2), veh/ln	0.0	0.8	0.0	9.9	0.0	0.8	0.0	0.7
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	2.8	0.0	17.6	0.0	2.2	0.0	3.8
%ile Storage Ratio (RQ%)	0.00	0.01	0.00	0.09	0.00	0.01	0.00	0.04
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	17.2	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	6	0	8	0
Lane Assignment								
Lanes in Grp	0	0	0	0	0	0	0	0
Grp Vol (v), veh/h	0	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	16	0	18	0
Lane Assignment	T+R		T+R		T+R		T+R	
Lanes in Grp	1	0	1	0	1	0	1	0
Grp Vol (v), veh/h	525	0	598	0	722	0	577	0
Grp Sat Flow (s), veh/h/ln	1651	0	1642	0	1718	0	1683	0
Q Serve Time (g_s), s	31.7	0.0	29.0	0.0	36.0	0.0	34.1	0.0
Cycle Q Clear Time (g_c), s	31.7	0.0	29.0	0.0	36.0	0.0	34.1	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.26	0.00	0.30	0.00	0.03	0.00	0.15	0.00
Lane Grp Cap (c), veh/h	551	0	467	0	607	0	604	0
V/C Ratio (X)	0.95	0.00	1.28	0.00	1.19	0.00	0.95	0.00
Avail Cap (c_a), veh/h	567	0	467	0	607	0	627	0
Upstream Filter (I)	1.00	0.00	1.00	0.00	1.00	0.00	0.59	0.00
Uniform Delay (d1), s/veh	33.2	0.0	36.5	0.0	33.0	0.0	31.9	0.0
Incr Delay (d2), s/veh	28.4	0.0	142.2	0.0	101.4	0.0	17.4	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	61.6	0.0	178.7	0.0	134.4	0.0	49.3	0.0
1st-Term Q (Q1), veh/ln	14.4	0.0	13.1	0.0	17.0	0.0	15.7	0.0
2nd-Term Q (Q2), veh/ln	4.3	0.0	18.4	0.0	17.1	0.0	2.9	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	18.8	0.0	31.5	0.0	34.1	0.0	18.6	0.0
%ile Storage Ratio (RQ%)	0.05	0.00	0.32	0.00	0.09	0.00	0.10	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	32.8	0.0	28.9	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	113.6
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	103	387	163	316	452	79	46	357	126	67	645	19
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	112	421	177	343	491	86	50	388	137	73	701	21
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	151	329	138	274	514	90	65	407	144	96	589	18
Arrive On Green	0.09	0.28	0.28	0.17	0.36	0.36	0.04	0.33	0.33	0.06	0.35	0.35
Sat Flow, veh/h	1645	1156	486	1645	1432	251	1645	1220	431	1645	1668	50
Grp Volume(v), veh/h	112	0	598	343	0	577	50	0	525	73	0	722
Grp Sat Flow(s),veh/h/ln	1645	0	1642	1645	0	1683	1645	0	1651	1645	0	1718
Q Serve(g_s), s	6.8	0.0	29.0	17.0	0.0	34.1	3.1	0.0	31.7	4.5	0.0	36.0
Cycle Q Clear(g_c), s	6.8	0.0	29.0	17.0	0.0	34.1	3.1	0.0	31.7	4.5	0.0	36.0
Prop In Lane	1.00		0.30	1.00		0.15	1.00		0.26	1.00		0.03
Lane Grp Cap(c), veh/h	151	0	467	274	0	604	65	0	551	96	0	607
V/C Ratio(X)	0.74	0.00	1.28	1.25	0.00	0.95	0.78	0.00	0.95	0.76	0.00	1.19
Avail Cap(c_a), veh/h	151	0	467	274	0	627	65	0	567	96	0	607
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	0.59	0.00	0.59	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	45.1	0.0	36.5	42.5	0.0	31.9	48.6	0.0	33.2	47.3	0.0	33.0
Incr Delay (d2), s/veh	17.5	0.0	142.2	129.7	0.0	17.4	43.5	0.0	28.4	28.5	0.0	101.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.8	0.0	31.5	17.6	0.0	18.6	2.2	0.0	18.8	2.8	0.0	34.1
LnGrp Delay(d),s/veh	62.6	0.0	178.7	172.2	0.0	49.3	92.1	0.0	61.6	75.8	0.0	134.4
LnGrp LOS	E		F	F		D	F		E	E		F
Approach Vol, veh/h		710			920			575			795	
Approach Delay, s/veh		160.4			95.1			64.3			129.0	
Approach LOS		F			F			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.0	38.0	21.0	33.0	8.0	40.0	13.4	40.6
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	6.0	35.0	17.0	29.0	4.0	36.0	8.0	38.0
Max Q Clear Time (g_c+I1), s	6.5	33.7	19.0	31.0	5.1	38.0	8.8	36.1
Green Ext Time (p_c), s	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.5

Intersection Summary	
HCM 2010 Ctrl Delay	113.6
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	64	494	29	19	442	452	14	199	27	346	159	73
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1900	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	70	537	32	21	480	491	15	216	29	376	173	79
Adj No. of Lanes	1	1	0	1	1	1	0	1	0	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	101	567	34	29	531	452	0	340	46	405	887	754
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.06	0.35	0.35	0.02	0.31	0.31	0.00	0.23	0.23	0.25	0.51	0.51
Ln Grp Delay, s/veh	48.4	0.0	35.7	78.7	50.1	77.1	0.0	0.0	36.3	52.5	13.6	6.6
Ln Grp LOS	D		D	E	D	F			D	D	B	A
Approach Vol, veh/h		639			992			245			628	
Approach Delay, s/veh		37.1			64.1			36.3			36.0	
Approach LOS		D			E			D			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	8	7
Case No	2.0	4.0	2.0	4.0	0.0	3.0	3.0	2.0
Phs Duration (G+Y+Rc), s	29.1	27.3	5.8	39.8	0.0	56.4	35.4	10.2
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	27.0	17.0	4.0	38.0	4.0	40.0	35.0	7.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.0	0.0	4.1	4.2	4.0
Max Q Clear (g_c+I1), s	24.8	15.3	3.3	35.0	0.0	7.5	29.2	6.3
Green Ext Time (g_e), s	0.3	0.4	0.0	0.8	0.0	1.8	2.2	0.2
Prob of Phs Call (p_c)	1.00	1.00	0.45	1.00	0.00	1.00	1.00	0.86
Prob of Max Out (p_x)	1.00	1.00	1.00	1.00	0.00	0.00	0.73	1.00

Left-Turn Movement Data								
Assigned Mvmt	1		3		5			7
Mvmt Sat Flow, veh/h	1645		1645		0			1645

Through Movement Data								
Assigned Mvmt		2		4		6	8	
Mvmt Sat Flow, veh/h		1492		1614		1727	1727	

Right-Turn Movement Data								
Assigned Mvmt		12		14		16	18	
Mvmt Sat Flow, veh/h		200		96		1468	1468	

Left Lane Group Data								
Assigned Mvmt	1	0	3	0	5	0	0	7
Lane Assignment	(Prot)		(Prot)					(Prot)
Lanes in Grp	1	0	1	0	0	0	0	1

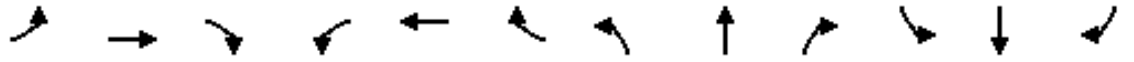
Grp Vol (v), veh/h	376	0	21	0	0	0	0	70
Grp Sat Flow (s), veh/h/ln	1645	0	1645	0	0	0	0	1645
Q Serve Time (g_s), s	22.8	0.0	1.3	0.0	0.0	0.0	0.0	4.3
Cycle Q Clear Time (g_c), s	22.8	0.0	1.3	0.0	0.0	0.0	0.0	4.3
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	405	0	29	0	0	0	0	101
V/C Ratio (X)	0.93	0.00	0.73	0.00	0.00	0.00	0.00	0.70
Avail Cap (c_a), veh/h	435	0	65	0	0	0	0	113
Upstream Filter (I)	0.48	0.00	1.00	0.00	0.00	0.00	0.00	0.09
Uniform Delay (d1), s/veh	37.6	0.0	49.9	0.0	0.0	0.0	0.0	46.9
Incr Delay (d2), s/veh	14.9	0.0	28.9	0.0	0.0	0.0	0.0	1.5
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	52.5	0.0	78.7	0.0	0.0	0.0	0.0	48.4
1st-Term Q (Q1), veh/ln	10.3	0.0	0.6	0.0	0.0	0.0	0.0	1.9
2nd-Term Q (Q2), veh/ln	1.7	0.0	0.2	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	12.0	0.0	0.8	0.0	0.0	0.0	0.0	2.0
%ile Storage Ratio (RQ%)	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	8	0
Lane Assignment						T	T	
Lanes in Grp	0	0	0	0	0	1	1	0
Grp Vol (v), veh/h	0	0	0	0	0	173	480	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	1727	1727	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	5.5	27.2	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	5.5	27.2	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	887	531	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.20	0.90	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	887	593	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.48	1.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	13.4	33.9	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.2	16.2	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	13.6	50.1	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	2.6	12.9	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.1	2.4	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	2.7	15.3	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	18	0
Lane Assignment		T+R		T+R		R	R	
Lanes in Grp	0	1	0	1	0	1	1	0
Grp Vol (v), veh/h	0	245	0	569	0	79	491	0
Grp Sat Flow (s), veh/h/ln	0	1692	0	1710	0	1468	1468	0
Q Serve Time (g_s), s	0.0	13.3	0.0	33.0	0.0	2.0	16.7	0.0
Cycle Q Clear Time (g_c), s	0.0	13.3	0.0	33.0	0.0	2.0	16.7	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.12	0.00	0.06	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	386	0	601	0	754	452	0
V/C Ratio (X)	0.00	0.63	0.00	0.95	0.00	0.10	1.09	0.00
Avail Cap (c_a), veh/h	0	386	0	637	0	754	504	0
Upstream Filter (I)	0.00	0.09	0.00	0.09	0.00	0.48	1.00	0.00
Uniform Delay (d1), s/veh	0.0	35.5	0.0	32.2	0.0	6.5	10.0	0.0
Incr Delay (d2), s/veh	0.0	0.7	0.0	3.5	0.0	0.1	67.2	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	36.3	0.0	35.7	0.0	6.6	77.1	0.0
1st-Term Q (Q1), veh/ln	0.0	6.2	0.0	15.5	0.0	0.8	6.7	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.6	0.0	0.0	8.4	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	6.3	0.0	16.1	0.0	0.8	15.1	0.0
%ile Storage Ratio (RQ%)	0.00	0.02	0.00	0.09	0.00	0.00	0.02	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	9.9	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	47.4
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	64	494	29	19	442	452	14	199	27	346	159	73
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1900	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	70	537	32	21	480	491	15	216	29	376	173	79
Adj No. of Lanes	1	1	0	1	1	1	0	1	0	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	101	567	34	29	531	452	0	340	46	405	887	754
Arrive On Green	0.06	0.35	0.35	0.02	0.31	0.31	0.00	0.23	0.23	0.25	0.51	0.51
Sat Flow, veh/h	1645	1614	96	1645	1727	1468	0	1492	200	1645	1727	1468
Grp Volume(v), veh/h	70	0	569	21	480	491	0	0	245	376	173	79
Grp Sat Flow(s),veh/h/ln	1645	0	1710	1645	1727	1468	0	0	1692	1645	1727	1468
Q Serve(g_s), s	4.3	0.0	33.0	1.3	27.2	16.7	0.0	0.0	13.3	22.8	5.5	2.0
Cycle Q Clear(g_c), s	4.3	0.0	33.0	1.3	27.2	16.7	0.0	0.0	13.3	22.8	5.5	2.0
Prop In Lane	1.00		0.06	1.00		1.00	0.00		0.12	1.00		1.00
Lane Grp Cap(c), veh/h	101	0	601	29	531	452	0	0	386	405	887	754
V/C Ratio(X)	0.70	0.00	0.95	0.73	0.90	1.09	0.00	0.00	0.63	0.93	0.20	0.10
Avail Cap(c_a), veh/h	113	0	637	65	593	504	0	0	386	435	887	754
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.09	0.00	0.09	1.00	1.00	1.00	0.00	0.00	0.09	0.48	0.48	0.48
Uniform Delay (d), s/veh	46.9	0.0	32.2	49.9	33.9	10.0	0.0	0.0	35.5	37.6	13.4	6.5
Incr Delay (d2), s/veh	1.5	0.0	3.5	28.9	16.2	67.2	0.0	0.0	0.7	14.9	0.2	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.0	0.0	16.1	0.8	15.3	15.1	0.0	0.0	6.3	12.0	2.7	0.8
LnGrp Delay(d),s/veh	48.4	0.0	35.7	78.7	50.1	77.1	0.0	0.0	36.3	52.5	13.6	6.6
LnGrp LOS	D		D	E	D	F			D	D	B	A
Approach Vol, veh/h		639			992			245			628	
Approach Delay, s/veh		37.1			64.1			36.3			36.0	
Approach LOS		D			E			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	29.1	27.3	5.8	39.8	0.0	56.4	10.2	35.4
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	27.0	17.0	4.0	38.0	4.0	40.0	7.0	35.0
Max Q Clear Time (g_c+I1), s	24.8	15.3	3.3	35.0	0.0	7.5	6.3	29.2
Green Ext Time (p_c), s	0.3	0.4	0.0	0.8	0.0	1.8	0.2	2.2

Intersection Summary	
HCM 2010 Ctrl Delay	47.4
HCM 2010 LOS	D

Intersection	
Int Delay, s/veh	30.4

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	15	537	773	195	145	22
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	16	584	840	212	158	24

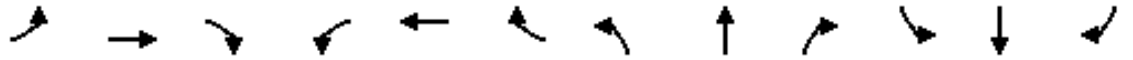
Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	1052	0	-	0	1562	946
Stage 1	-	-	-	-	946	-
Stage 2	-	-	-	-	616	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	632	-	-	-	~ 118	306
Stage 1	-	-	-	-	365	-
Stage 2	-	-	-	-	524	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	632	-	-	-	~ 115	306
Mov Cap-2 Maneuver	-	-	-	-	~ 115	-
Stage 1	-	-	-	-	365	-
Stage 2	-	-	-	-	511	-

Approach	EB	WB	SB
HCM Control Delay, s	0.3	0	$ 306.3
HCM LOS			F

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	632	-	-	-	125
HCM Lane V/C Ratio	0.026	-	-	-	1.452
HCM Control Delay (s)	10.8	-	-	-	$ 306.3
HCM Lane LOS	B	-	-	-	F
HCM 95th %tile Q(veh)	0.1	-	-	-	12.5

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	39	419	19	5	736	73	27	49	9	45	79	105
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1727	1900	1727	1727	1727	1900	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	42	455	21	5	800	79	29	53	10	49	86	114
Adj No. of Lanes	0	1	0	1	1	1	0	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	0	736	34	9	862	733	0	85	16	0	100	133
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.00	0.45	0.45	0.01	0.50	0.50	0.22	0.06	0.06	0.31	0.15	0.15
Ln Grp Delay, s/veh	0.0	0.0	19.7	93.0	34.6	0.6	0.0	0.0	67.4	0.0	0.0	68.4
Ln Grp LOS			B	F	C	A			E			E
Approach Vol, veh/h		476			884			63			200	
Approach Delay, s/veh		19.7			31.9			67.4			68.4	
Approach LOS		B			C			E			E	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	6	5	7	8
Case No	4.0	0.0	2.0	4.0	4.0	0.0	0.0	3.0
Phs Duration (G+Y+Rc), s	9.4	31.7	4.5	44.4	17.4	23.7	0.0	48.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	16.0	4.0	4.0	50.0	16.0	4.0	4.0	50.0
Max Allow Headway (MAH), s	4.1	0.0	4.1	4.0	4.2	0.0	0.0	4.0
Max Q Clear (g_c+I1), s	5.3	0.0	2.3	21.1	13.2	0.0	0.0	40.9
Green Ext Time (g_e), s	0.1	0.0	0.0	6.4	0.2	0.0	0.0	4.0
Prob of Phs Call (p_c)	1.00	0.00	0.12	1.00	1.00	0.00	0.00	1.00
Prob of Max Out (p_x)	0.00	0.00	1.00	0.05	1.00	0.00	0.00	0.54

Left-Turn Movement Data								
Assigned Mvmt		1	3			5	7	
Mvmt Sat Flow, veh/h		0	1645			0	0	

Through Movement Data								
Assigned Mvmt	2			4	6			8
Mvmt Sat Flow, veh/h	1414			1638	675			1727

Right-Turn Movement Data								
Assigned Mvmt	12			14	16			18
Mvmt Sat Flow, veh/h	267			76	895			1468

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	0	5	7	0
Lane Assignment			(Prot)					
Lanes in Grp	0	0	1	0	0	0	0	0

Grp Vol (v), veh/h	0	0	5	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	1645	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	0	9	0	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.58	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	73	0	0	0	0	0
Upstream Filter (I)	0.00	0.00	0.96	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	44.7	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	48.4	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	93.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	6	0	0	8
Lane Assignment								T
Lanes in Grp	0	0	0	0	0	0	0	1
Grp Vol (v), veh/h	0	0	0	0	0	0	0	800
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	1727
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.9
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.9
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	862
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	960
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.96
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.6
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.4
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.7
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	0	14	16	0	0	18
Lane Assignment	T+R			T+R	T+R			R
Lanes in Grp	1	0	0	1	1	0	0	1
Grp Vol (v), veh/h	63	0	0	476	200	0	0	79
Grp Sat Flow (s), veh/h/ln	1680	0	0	1714	1569	0	0	1468
Q Serve Time (g_s), s	3.3	0.0	0.0	19.1	11.2	0.0	0.0	0.5
Cycle Q Clear Time (g_c), s	3.3	0.0	0.0	19.1	11.2	0.0	0.0	0.5
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.16	0.00	0.00	0.04	0.57	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	101	0	0	770	233	0	0	733
V/C Ratio (X)	0.63	0.00	0.00	0.62	0.86	0.00	0.00	0.11
Avail Cap (c_a), veh/h	299	0	0	952	279	0	0	816
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.99	0.00	0.00	0.96
Uniform Delay (d1), s/veh	41.3	0.0	0.0	18.9	37.4	0.0	0.0	0.5
Incr Delay (d2), s/veh	26.0	0.0	0.0	0.8	31.0	0.0	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	67.4	0.0	0.0	19.7	68.4	0.0	0.0	0.6
1st-Term Q (Q1), veh/ln	1.5	0.0	0.0	9.0	4.8	0.0	0.0	0.2
2nd-Term Q (Q2), veh/ln	0.7	0.0	0.0	0.2	2.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	2.2	0.0	0.0	9.2	6.8	0.0	0.0	0.2
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.05	0.02	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	34.2
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	39	419	19	5	736	73	27	49	9	45	79	105
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1727	1900	1727	1727	1727	1900	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	42	455	21	5	800	79	29	53	10	49	86	114
Adj No. of Lanes	0	1	0	1	1	1	0	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	0	736	34	9	862	733	0	85	16	0	100	133
Arrive On Green	0.00	0.45	0.45	0.01	0.50	0.50	0.22	0.06	0.06	0.31	0.15	0.15
Sat Flow, veh/h	0	1638	76	1645	1727	1468	0	1414	267	0	675	895
Grp Volume(v), veh/h	0	0	476	5	800	79	0	0	63	0	0	200
Grp Sat Flow(s),veh/h/ln	0	0	1714	1645	1727	1468	0	0	1680	0	0	1569
Q Serve(g_s), s	0.0	0.0	19.1	0.3	38.9	0.5	0.0	0.0	3.3	0.0	0.0	11.2
Cycle Q Clear(g_c), s	0.0	0.0	19.1	0.3	38.9	0.5	0.0	0.0	3.3	0.0	0.0	11.2
Prop In Lane	0.00		0.04	1.00		1.00	0.00		0.16	0.00		0.57
Lane Grp Cap(c), veh/h	0	0	770	9	862	733	0	0	101	0	0	233
V/C Ratio(X)	0.00	0.00	0.62	0.58	0.93	0.11	0.00	0.00	0.63	0.00	0.00	0.86
Avail Cap(c_a), veh/h	0	0	952	73	960	816	0	0	299	0	0	279
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.00	1.00	0.96	0.96	0.96	0.00	0.00	1.00	0.00	0.00	0.99
Uniform Delay (d), s/veh	0.0	0.0	18.9	44.7	21.0	0.5	0.0	0.0	41.3	0.0	0.0	37.4
Incr Delay (d2), s/veh	0.0	0.0	0.8	48.4	13.5	0.1	0.0	0.0	26.0	0.0	0.0	31.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.0	9.2	0.2	21.7	0.2	0.0	0.0	2.2	0.0	0.0	6.8
LnGrp Delay(d),s/veh	0.0	0.0	19.7	93.0	34.6	0.6	0.0	0.0	67.4	0.0	0.0	68.4
LnGrp LOS			B	F	C	A			E			E
Approach Vol, veh/h		476			884			63			200	
Approach Delay, s/veh		19.7			31.9			67.4			68.4	
Approach LOS		B			C			E			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	31.7	9.4	4.5	44.4	23.7	17.4	0.0	48.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	40	16.0	4.0	50.0	4.0	16.0	4.0	50.0
Max Q Clear Time (g_c+I1), s	0.0	5.3	2.3	21.1	0.0	13.2	0.0	40.9
Green Ext Time (p_c), s	0.0	0.1	0.0	6.4	0.0	0.2	0.0	4.0

Intersection Summary	
HCM 2010 Ctrl Delay	34.2
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NWL	NWR	NWR2	SWL2	SWL	SWR
Lane Configurations												
Volume (veh/h)	0	795	24	81	284	49	0	0	0	0	0	0
Number	7	4	14	3	8	18	5	12	12	1	1	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	864	26	88	309	53	0	0	0	0	0	0
Adj No. of Lanes	1	1	0	1	1	0	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes	Yes	
Cap, veh/h	2	891	27	109	922	158	2	0	0	456	456	407
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.00	0.53	0.53	0.07	0.64	0.64	0.00	0.00	0.00	0.00	0.00	0.00
Ln Grp Delay, s/veh	0.0	0.0	26.1	75.6	0.0	8.2	0.0	0.0	0.0	0.0	0.0	0.0
Ln Grp LOS			C	E		A						
Approach Vol, veh/h		890			450		0			0	0	
Approach Delay, s/veh		26.1			21.4		0.0			0.0	0.0	
Approach LOS		C			C							

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1		4	3	5	6	7	8
Case No	2.0		4.0	2.0	2.0	3.0	2.0	4.0
Phs Duration (G+Y+Rc), s	31.2		56.3	10.5	0.0	31.2	0.0	66.8
Change Period (Y+Rc), s	4.0		4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	4.0		54.0	7.0	4.0	17.0	4.0	57.0
Max Allow Headway (MAH), s	0.0		4.0	4.1	0.0	0.0	0.0	4.1
Max Q Clear (g_c+I1), s	0.0		51.1	7.2	0.0	0.0	0.0	11.6
Green Ext Time (g_e), s	0.0		1.3	0.0	0.0	0.0	0.0	1.7
Prob of Phs Call (p_c)	0.00		1.00	0.91	0.00	0.00	0.00	1.00
Prob of Max Out (p_x)	0.00		1.00	1.00	0.00	0.00	0.00	0.00

Left-Turn Movement Data								
Assigned Mvmt	1			3	5		7	
Mvmt Sat Flow, veh/h	1645			1645	1645		1645	

Through Movement Data								
Assigned Mvmt			4			6		8
Mvmt Sat Flow, veh/h			1668			1727		1437

Right-Turn Movement Data								
Assigned Mvmt			14			16		18
Mvmt Sat Flow, veh/h			50			1468		247

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	5	0	7	0
Lane Assignment	(Prot)			(Prot)	(Prot)		(Prot)	
Lanes in Grp	1	0	0	1	1	0	1	0

Grp Vol (v), veh/h	0	0	0	88	0	0	0	0
Grp Sat Flow (s), veh/h/ln	1645	0	0	1645	1645	0	1645	0
Q Serve Time (g_s), s	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	456	0	0	109	2	0	2	0
V/C Ratio (X)	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	456	0	0	118	67	0	67	0
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	45.1	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	30.5	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	75.6	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	0	4	0	0	6	0	8
Lane Assignment						T		
Lanes in Grp	0	0	0	0	0	1	0	0
Grp Vol (v), veh/h	0	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	1727	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	479	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	479	0	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	0	14	0	0	16	0	18
Lane Assignment			T+R			R		T+R
Lanes in Grp	0	0	1	0	0	1	0	1
Grp Vol (v), veh/h	0	0	890	0	0	0	0	362
Grp Sat Flow (s), veh/h/ln	0	0	1718	0	0	1468	0	1684
Q Serve Time (g_s), s	0.0	0.0	49.1	0.0	0.0	0.0	0.0	9.6
Cycle Q Clear Time (g_c), s	0.0	0.0	49.1	0.0	0.0	0.0	0.0	9.6
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.00	0.03	0.00	0.00	1.00	0.00	0.15
Lane Grp Cap (c), veh/h	0	0	918	0	0	407	0	1080
V/C Ratio (X)	0.00	0.00	0.97	0.00	0.00	0.00	0.00	0.34
Avail Cap (c_a), veh/h	0	0	947	0	0	407	0	1080
Upstream Filter (I)	0.00	0.00	0.09	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	22.1	0.0	0.0	0.0	0.0	8.0
Incr Delay (d2), s/veh	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	26.1	0.0	0.0	0.0	0.0	8.2
1st-Term Q (Q1), veh/ln	0.0	0.0	23.0	0.0	0.0	0.0	0.0	4.4
2nd-Term Q (Q2), veh/ln	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	24.0	0.0	0.0	0.0	0.0	4.5
%ile Storage Ratio (RQ%)	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	24.5
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NWL	NWR	NWR2	SWL2	SWL	SWR
Lane Configurations												
Volume (veh/h)	0	795	24	81	284	49	0	0	0	0	0	0
Number	7	4	14	3	8	18	5	12	12	1	1	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	864	26	88	309	53	0	0	0	0	0	0
Adj No. of Lanes	1	1	0	1	1	0	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	2	891	27	109	922	158	2	0	0	456	456	407
Arrive On Green	0.00	0.53	0.53	0.07	0.64	0.64	0.00	0.00	0.00	0.00	0.00	0.00
Sat Flow, veh/h	1645	1668	50	1645	1437	247	1645			1645	1645	1468
Grp Volume(v), veh/h	0	0	890	88	0	362	0			0	0	0
Grp Sat Flow(s),veh/h/ln	1645	0	1718	1645	0	1684	1645			1645	1645	1468
Q Serve(g_s), s	0.0	0.0	49.1	5.2	0.0	9.6	0.0			0.0	0.0	0.0
Cycle Q Clear(g_c), s	0.0	0.0	49.1	5.2	0.0	9.6	0.0			0.0	0.0	0.0
Prop In Lane	1.00		0.03	1.00		0.15	1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	2	0	918	109	0	1080	2			456	456	407
V/C Ratio(X)	0.00	0.00	0.97	0.80	0.00	0.34	0.00			0.00	0.00	0.00
Avail Cap(c_a), veh/h	67	0	947	118	0	1080	67			456	456	407
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00			1.00	1.00	1.00
Upstream Filter(I)	0.00	0.00	0.09	1.00	0.00	1.00	0.00			0.00	0.00	0.00
Uniform Delay (d), s/veh	0.0	0.0	22.1	45.1	0.0	8.0	0.0			0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	4.0	30.5	0.0	0.2	0.0			0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.0	24.0	3.3	0.0	4.5	0.0			0.0	0.0	0.0
LnGrp Delay(d),s/veh	0.0	0.0	26.1	75.6	0.0	8.2	0.0			0.0	0.0	0.0
LnGrp LOS			C	E		A						
Approach Vol, veh/h		890			450		0			0	0	
Approach Delay, s/veh		26.1			21.4		0.0			0.0	0.0	
Approach LOS		C			C							

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1		3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	31.2		10.5	56.3	0.0	31.2	0.0	66.8
Change Period (Y+Rc), s	4.0		4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	40		7.0	54.0	4.0	17.0	4.0	57.0
Max Q Clear Time (g_c+I1), s	0		7.2	51.1	0.0	0.0	0.0	11.6
Green Ext Time (p_c), s	0.0		0.0	1.3	0.0	0.0	0.0	1.7

Intersection Summary	
HCM 2010 Ctrl Delay	24.5
HCM 2010 LOS	C

Intersection	
Intersection Delay, s/veh	4.2
Intersection LOS	E

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Vol, veh/h	0	14	33	3	0	452	129	18	0	4	49	26	0	18	292	16
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	15	36	3	0	491	140	20	0	4	53	28	0	20	317	17
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	10.5	59.8	11	18.9
HCM LOS	B	F	B	C

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	5%	28%	75%	6%
Vol Thru, %	62%	66%	22%	90%
Vol Right, %	33%	6%	3%	5%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	79	50	599	326
LT Vol	4	14	452	18
Through Vol	49	33	129	292
RT Vol	26	3	18	16
Lane Flow Rate	86	54	651	354
Geometry Grp	1	1	1	1
Degree of Util (X)	0.16	0.101	1	0.617
Departure Headway (Hd)	6.698	6.661	5.746	6.264
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	537	538	632	578
Service Time	4.727	4.711	3.79	4.278
HCM Lane V/C Ratio	0.16	0.1	1.03	0.612
HCM Control Delay	11	10.5	59.8	18.9
HCM Lane LOS	B	B	F	C
HCM 95th-tile Q	0.6	0.3	15.3	4.2

Intersection	
Int Delay, s/veh	1.6

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	12	77	260	31	26	26
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	13	84	283	34	28	28

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	316	0	-	0	409	299
Stage 1	-	-	-	-	299	-
Stage 2	-	-	-	-	110	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1200	-	-	-	584	722
Stage 1	-	-	-	-	734	-
Stage 2	-	-	-	-	895	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1200	-	-	-	578	722
Mov Cap-2 Maneuver	-	-	-	-	578	-
Stage 1	-	-	-	-	734	-
Stage 2	-	-	-	-	885	-

Approach	EB	WB	SB
HCM Control Delay, s	1.1	0	11.1
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1200	-	-	-	642
HCM Lane V/C Ratio	0.011	-	-	-	0.088
HCM Control Delay (s)	8	0	-	-	11.1
HCM Lane LOS	A	A	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	16	293	81	62	265	33	14	52	19	18	153	23
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1727	1900	1900	1727	1900	1900	1727	1727	1900	1727	1900
Adj Flow Rate, veh/h	17	318	88	67	288	36	15	57	21	20	166	25
Adj No. of Lanes	0	1	0	0	1	0	0	1	1	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	169	543	146	243	543	62	223	349	349	187	326	47
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.42	0.42	0.42	0.42	0.42	0.42	0.24	0.24	0.24	0.24	0.24	0.24
Ln Grp Delay, s/veh	5.7	0.0	0.0	5.5	0.0	0.0	7.3	0.0	7.1	8.3	0.0	0.0
Ln Grp LOS	A			A			A		A	A		
Approach Vol, veh/h		423			391			93			211	
Approach Delay, s/veh		5.7			5.5			7.2			8.3	
Approach LOS		A			A			A			A	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Case No		7.0		8.0		8.0		8.0
Phs Duration (G+Y+Rc), s		9.6		14.1		9.6		14.1
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green (Gmax), s		32.0		50.0		32.0		50.0
Max Allow Headway (MAH), s		4.1		4.2		4.1		4.2
Max Q Clear (g_c+I1), s		2.8		6.6		4.6		6.1
Green Ext Time (g_e), s		1.1		3.5		1.0		3.5
Prob of Phs Call (p_c)		1.00		1.00		1.00		1.00
Prob of Max Out (p_x)		0.00		0.00		0.00		0.00

Left-Turn Movement Data								
Assigned Mvmt		5		7		1		3
Mvmt Sat Flow, veh/h		164		26		88		154

Through Movement Data								
Assigned Mvmt		2		4		6		8
Mvmt Sat Flow, veh/h		1470		1279		1372		1279

Right-Turn Movement Data								
Assigned Mvmt		12		14		16		18
Mvmt Sat Flow, veh/h		1468		343		196		145

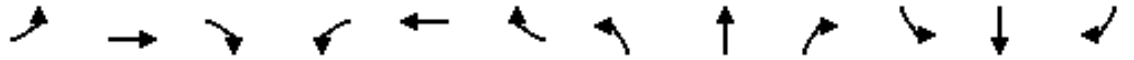
Left Lane Group Data								
Assigned Mvmt	0	5	0	7	0	1	0	3
Lane Assignment		L+T		L+T+R		L+T+R		L+T+R
Lanes in Grp	0	1	0	1	0	1	0	1

Grp Vol (v), veh/h	0	72	0	423	0	211	0	391
Grp Sat Flow (s), veh/h/ln	0	1634	0	1647	0	1656	0	1578
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.8	0.0	4.6	0.0	2.6	0.0	4.1
Perm LT Sat Flow (s_l), veh/h/ln	0	1211	0	1073	0	1342	0	995
Shared LT Sat Flow (s_sh), veh/h/ln	0	1709	0	1724	0	0	0	1713
Perm LT Eff Green (g_p), s	0.0	5.6	0.0	10.1	0.0	5.6	0.0	10.1
Perm LT Serve Time (g_u), s	0.0	3.0	0.0	6.0	0.0	4.8	0.0	5.4
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
Time to First Blk (g_f), s	0.0	2.8	0.0	6.1	0.0	2.4	0.0	4.0
Serve Time pre Blk (g_fs), s	0.0	0.8	0.0	4.6	0.0	2.4	0.0	4.0
Prop LT Inside Lane (P_L)	0.00	0.21	0.00	0.04	0.00	0.09	0.00	0.17
Lane Grp Cap (c), veh/h	0	572	0	858	0	560	0	849
V/C Ratio (X)	0.00	0.13	0.00	0.49	0.00	0.38	0.00	0.46
Avail Cap (c_a), veh/h	0	2291	0	3585	0	2373	0	3333
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	7.2	0.0	5.3	0.0	7.9	0.0	5.1
Incr Delay (d2), s/veh	0.0	0.1	0.0	0.4	0.0	0.4	0.0	0.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	7.3	0.0	5.7	0.0	8.3	0.0	5.5
1st-Term Q (Q1), veh/ln	0.0	0.4	0.0	2.1	0.0	1.2	0.0	1.8
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.4	0.0	2.2	0.0	1.2	0.0	1.9
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	0	8
Lane Assignment								
Lanes in Grp	0	0	0	0	0	0	0	0
Grp Vol (v), veh/h	0	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	0	18
Lane Assignment		R						
Lanes in Grp	0	1	0	0	0	0	0	0
Grp Vol (v), veh/h	0	21	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	1468	0	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	0.21	0.00	0.12	0.00	0.09
Lane Grp Cap (c), veh/h	0	349	0	0	0	0	0	0
V/C Ratio (X)	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	1983	0	0	0	0	0	0
Upstream Filter (I)	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	7.1	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

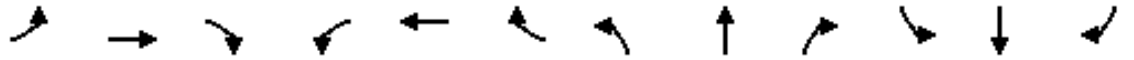
Intersection Summary	
HCM 2010 Ctrl Delay	6.2
HCM 2010 LOS	A



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	16	293	81	62	265	33	14	52	19	18	153	23
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1727	1900	1900	1727	1900	1900	1727	1727	1900	1727	1900
Adj Flow Rate, veh/h	17	318	88	67	288	36	15	57	21	20	166	25
Adj No. of Lanes	0	1	0	0	1	0	0	1	1	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	169	543	146	243	543	62	223	349	349	187	326	47
Arrive On Green	0.42	0.42	0.42	0.42	0.42	0.42	0.24	0.24	0.24	0.24	0.24	0.24
Sat Flow, veh/h	26	1279	343	154	1279	145	164	1470	1468	88	1372	196
Grp Volume(v), veh/h	423	0	0	391	0	0	72	0	21	211	0	0
Grp Sat Flow(s),veh/h/ln	1647	0	0	1578	0	0	1634	0	1468	1656	0	0
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.0	0.0
Cycle Q Clear(g_c), s	4.6	0.0	0.0	4.1	0.0	0.0	0.8	0.0	0.3	2.6	0.0	0.0
Prop In Lane	0.04		0.21	0.17		0.09	0.21		1.00	0.09		0.12
Lane Grp Cap(c), veh/h	858	0	0	849	0	0	572	0	349	560	0	0
V/C Ratio(X)	0.49	0.00	0.00	0.46	0.00	0.00	0.13	0.00	0.06	0.38	0.00	0.00
Avail Cap(c_a), veh/h	3585	0	0	3333	0	0	2291	0	1983	2373	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	5.3	0.0	0.0	5.1	0.0	0.0	7.2	0.0	7.0	7.9	0.0	0.0
Incr Delay (d2), s/veh	0.4	0.0	0.0	0.4	0.0	0.0	0.1	0.0	0.1	0.4	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.2	0.0	0.0	1.9	0.0	0.0	0.4	0.0	0.1	1.2	0.0	0.0
LnGrp Delay(d),s/veh	5.7	0.0	0.0	5.5	0.0	0.0	7.3	0.0	7.1	8.3	0.0	0.0
LnGrp LOS	A			A			A		A	A		
Approach Vol, veh/h		423			391			93			211	
Approach Delay, s/veh		5.7			5.5			7.2			8.3	
Approach LOS		A			A			A			A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Phs Duration (G+Y+Rc), s		9.6		14.1		9.6		14.1
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green Setting (Gmax), s		32.0		50.0		32.0		50.0
Max Q Clear Time (g_c+I1), s		2.8		6.6		4.6		6.1
Green Ext Time (p_c), s		1.1		3.5		1.0		3.5

Intersection Summary		
HCM 2010 Ctrl Delay		6.2
HCM 2010 LOS		A



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	223	991	8	305	1094	278	359	2083	343	449	1161	259
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	242	1077	9	332	1189	302	390	2264	373	488	1262	282
Adj No. of Lanes	2	3	1	2	3	0	2	3	0	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	188	1063	331	250	919	233	449	1770	282	344	1879	585
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.06	0.23	0.23	0.08	0.25	0.25	0.14	0.43	0.43	0.11	0.40	0.40
Ln Grp Delay, s/veh	212.0	70.3	30.8	199.2	172.5	174.4	44.6	149.2	175.5	244.7	26.5	24.7
Ln Grp LOS	F	F	C	F	F	F	D	F	F	F	C	C
Approach Vol, veh/h		1328			1823			3027			2032	
Approach Delay, s/veh		95.9			177.9			143.7			78.6	
Approach LOS		F			F			F			E	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	5	6	7	8
Case No	4.0	2.0	2.0	3.0	2.0	3.0	2.0	4.0
Phs Duration (G+Y+Rc), s	48.0	15.0	12.0	27.0	18.4	44.6	10.0	29.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	44.0	11.0	8.0	23.0	15.0	40.0	6.0	25.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	46.0	13.0	10.0	25.0	14.2	24.4	8.0	27.0
Green Ext Time (g_e), s	0.0	0.0	0.0	0.0	0.2	8.6	0.0	0.0
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prob of Max Out (p_x)	1.00	1.00	1.00	1.00	1.00	0.45	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt		1	3		5		7	
Mvmt Sat Flow, veh/h		3191	3191		3191		3191	

Through Movement Data								
Assigned Mvmt	2			4		6		8
Mvmt Sat Flow, veh/h	4102			4715		4715		3750

Right-Turn Movement Data								
Assigned Mvmt	12			14		16		18
Mvmt Sat Flow, veh/h	653			1468		1468		953

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	5	0	7	0
Lane Assignment		(Prot)	(Prot)		(Prot)		(Prot)	
Lanes in Grp	0	2	2	0	2	0	2	0

Grp Vol (v), veh/h	0	488	332	0	390	0	242	0
Grp Sat Flow (s), veh/h/ln	0	1596	1596	0	1596	0	1596	0
Q Serve Time (g_s), s	0.0	11.0	8.0	0.0	12.2	0.0	6.0	0.0
Cycle Q Clear Time (g_c), s	0.0	11.0	8.0	0.0	12.2	0.0	6.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	344	250	0	449	0	188	0
V/C Ratio (X)	0.00	1.42	1.33	0.00	0.87	0.00	1.29	0.00
Avail Cap (c_a), veh/h	0	344	250	0	469	0	188	0
Upstream Filter (I)	0.00	0.66	0.19	0.00	0.09	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	45.5	47.0	0.0	42.9	0.0	48.0	0.0
Incr Delay (d2), s/veh	0.0	199.2	152.2	0.0	1.7	0.0	164.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	244.7	199.2	0.0	44.6	0.0	212.0	0.0
1st-Term Q (Q1), veh/ln	0.0	4.8	3.5	0.0	5.4	0.0	2.6	0.0
2nd-Term Q (Q2), veh/ln	0.0	9.5	5.3	0.0	0.1	0.0	4.3	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	14.3	8.8	0.0	5.5	0.0	6.9	0.0
%ile Storage Ratio (RQ%)	0.00	0.04	0.02	0.00	0.01	0.00	0.04	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	36.0	20.4	0.0	0.0	0.0	13.6	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.4	0.3	0.0	0.0	0.0	0.3	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	0	6	0	8
Lane Assignment	T			T		T		T
Lanes in Grp	2	0	0	3	0	3	0	2
Grp Vol (v), veh/h	1717	0	0	1077	0	1262	0	997
Grp Sat Flow (s), veh/h/ln	1572	0	0	1572	0	1572	0	1572
Q Serve Time (g_s), s	44.0	0.0	0.0	23.0	0.0	22.4	0.0	25.0
Cycle Q Clear Time (g_c), s	44.0	0.0	0.0	23.0	0.0	22.4	0.0	25.0
Lane Grp Cap (c), veh/h	1356	0	0	1063	0	1879	0	770
V/C Ratio (X)	1.27	0.00	0.00	1.01	0.00	0.67	0.00	1.29
Avail Cap (c_a), veh/h	1356	0	0	1063	0	1879	0	770
Upstream Filter (I)	0.09	0.00	0.00	1.00	0.00	0.66	0.00	0.19
Uniform Delay (d1), s/veh	29.0	0.0	0.0	39.5	0.0	25.2	0.0	38.5
Incr Delay (d2), s/veh	120.2	0.0	0.0	30.8	0.0	1.3	0.0	134.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	149.2	0.0	0.0	70.3	0.0	26.5	0.0	172.5
1st-Term Q (Q1), veh/ln	19.0	0.0	0.0	9.9	0.0	9.7	0.0	10.8
2nd-Term Q (Q2), veh/ln	22.6	0.0	0.0	3.0	0.0	0.2	0.0	14.3

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	41.7	0.0	0.0	13.0	0.0	9.9	0.0	25.1
%ile Storage Ratio (RQ%)	0.05	0.00	0.00	0.07	0.00	0.03	0.00	0.05
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	90.2	0.0	0.0	3.4	0.0	0.0	0.0	56.5
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.3

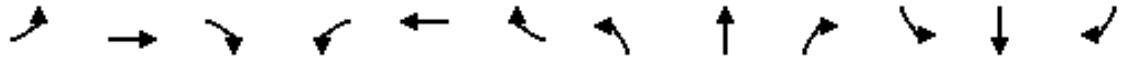
Right Lane Group Data								
Assigned Mvmt	12	0	0	14	0	16	0	18
Lane Assignment	T+R			R		R		T+R
Lanes in Grp	1	0	0	1	0	1	0	1
Grp Vol (v), veh/h	920	0	0	9	0	282	0	494
Grp Sat Flow (s), veh/h/ln	1612	0	0	1468	0	1468	0	1559
Q Serve Time (g_s), s	44.0	0.0	0.0	0.5	0.0	14.6	0.0	25.0
Cycle Q Clear Time (g_c), s	44.0	0.0	0.0	0.5	0.0	14.6	0.0	25.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.41	0.00	0.00	1.00	0.00	1.00	0.00	0.61
Lane Grp Cap (c), veh/h	695	0	0	331	0	585	0	382
V/C Ratio (X)	1.32	0.00	0.00	0.03	0.00	0.48	0.00	1.29
Avail Cap (c_a), veh/h	695	0	0	331	0	585	0	382
Upstream Filter (I)	0.09	0.00	0.00	1.00	0.00	0.66	0.00	0.19
Uniform Delay (d1), s/veh	29.0	0.0	0.0	30.8	0.0	22.8	0.0	38.5
Incr Delay (d2), s/veh	146.5	0.0	0.0	0.0	0.0	1.9	0.0	135.9
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	175.5	0.0	0.0	30.8	0.0	24.7	0.0	174.4
1st-Term Q (Q1), veh/ln	19.5	0.0	0.0	0.2	0.0	5.9	0.0	10.7
2nd-Term Q (Q2), veh/ln	28.3	0.0	0.0	0.0	0.0	0.3	0.0	14.4
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	47.8	0.0	0.0	0.2	0.0	6.2	0.0	25.2
%ile Storage Ratio (RQ%)	0.06	0.00	0.00	0.00	0.00	0.02	0.00	0.05
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	56.2	0.0	0.0	0.0	0.0	0.0	0.0	28.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3

Intersection Summary	
HCM 2010 Ctrl Delay	127.5
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	223	991	8	305	1094	278	359	2083	343	449	1161	259
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	242	1077	9	332	1189	302	390	2264	373	488	1262	282
Adj No. of Lanes	2	3	1	2	3	0	2	3	0	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	188	1063	331	250	919	233	449	1770	282	344	1879	585
Arrive On Green	0.06	0.23	0.23	0.08	0.25	0.25	0.14	0.43	0.43	0.11	0.40	0.40
Sat Flow, veh/h	3191	4715	1468	3191	3750	953	3191	4102	653	3191	4715	1468
Grp Volume(v), veh/h	242	1077	9	332	997	494	390	1717	920	488	1262	282
Grp Sat Flow(s),veh/h/ln	1596	1572	1468	1596	1572	1559	1596	1572	1612	1596	1572	1468
Q Serve(g_s), s	6.0	23.0	0.5	8.0	25.0	25.0	12.2	44.0	44.0	11.0	22.4	14.6
Cycle Q Clear(g_c), s	6.0	23.0	0.5	8.0	25.0	25.0	12.2	44.0	44.0	11.0	22.4	14.6
Prop In Lane	1.00		1.00	1.00		0.61	1.00		0.41	1.00		1.00
Lane Grp Cap(c), veh/h	188	1063	331	250	770	382	449	1356	695	344	1879	585
V/C Ratio(X)	1.29	1.01	0.03	1.33	1.29	1.29	0.87	1.27	1.32	1.42	0.67	0.48
Avail Cap(c_a), veh/h	188	1063	331	250	770	382	469	1356	695	344	1879	585
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.19	0.19	0.19	0.09	0.09	0.09	0.66	0.66	0.66
Uniform Delay (d), s/veh	48.0	39.5	30.8	47.0	38.5	38.5	42.9	29.0	29.0	45.5	25.2	22.8
Incr Delay (d2), s/veh	164.0	30.8	0.0	152.2	134.0	135.9	1.7	120.2	146.5	199.2	1.3	1.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.9	13.0	0.2	8.8	25.1	25.2	5.5	41.7	47.8	14.3	9.9	6.2
LnGrp Delay(d),s/veh	212.0	70.3	30.8	199.2	172.5	174.4	44.6	149.2	175.5	244.7	26.5	24.7
LnGrp LOS	F	F	C	F	F	F	D	F	F	F	C	C
Approach Vol, veh/h		1328			1823			3027			2032	
Approach Delay, s/veh		95.9			177.9			143.7			78.6	
Approach LOS		F			F			F			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	15.0	48.0	12.0	27.0	18.4	44.6	10.0	29.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	11.0	44.0	8.0	23.0	15.0	40.0	6.0	25.0
Max Q Clear Time (g_c+I1), s	13.0	46.0	10.0	25.0	14.2	24.4	8.0	27.0
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.2	8.6	0.0	0.0

Intersection Summary		
HCM 2010 Ctrl Delay	127.5	
HCM 2010 LOS	F	



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	4	1299	450	421	1294	10	396	4	766	0	1	1
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	4	1412	489	458	1407	11	430	4	833	0	1	1
Adj No. of Lanes	1	2	1	2	2	1	2	2	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	7	1348	603	427	1774	793	883	1143	511	3	168	52
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.00	0.41	0.41	0.13	0.54	0.54	0.28	0.35	0.35	0.00	0.04	0.04
Ln Grp Delay, s/veh	115.4	71.0	37.4	112.5	23.3	10.1	34.3	23.8	328.6	0.0	52.1	44.4
Ln Grp LOS	F	F	D	F	C	B	C	C	F		D	D
Approach Vol, veh/h		1905			1876			1267			2	
Approach Delay, s/veh		62.4			45.0			227.7			48.2	
Approach LOS		E			D			F			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	6	5	7	8
Case No	3.0	2.0	3.0	2.0	3.0	2.0	2.0	3.0
Phs Duration (G+Y+Rc), s	43.0	0.0	50.0	19.0	8.0	35.0	4.5	64.5
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	39.0	4.0	46.0	15.0	20.0	23.0	4.0	57.0
Max Allow Headway (MAH), s	4.3	0.0	4.1	4.0	4.2	4.1	4.1	4.0
Max Q Clear (g_c+I1), s	41.0	0.0	48.0	17.0	2.1	14.6	2.3	40.6
Green Ext Time (g_e), s	0.0	0.0	0.0	0.0	0.0	1.2	0.0	8.5
Prob of Phs Call (p_c)	1.00	0.00	1.00	1.00	1.00	1.00	0.12	1.00
Prob of Max Out (p_x)	1.00	0.00	1.00	1.00	0.00	0.13	1.00	0.38

Left-Turn Movement Data								
Assigned Mvmt		1		3		5	7	
Mvmt Sat Flow, veh/h		3191		3191		3191	1645	

Through Movement Data								
Assigned Mvmt	2		4		6			8
Mvmt Sat Flow, veh/h	3282		3282		4715			3282

Right-Turn Movement Data								
Assigned Mvmt	12		14		16			18
Mvmt Sat Flow, veh/h	1468		1468		1468			1468

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	0	5	7	0
Lane Assignment		(Prot)		(Prot)		(Prot)	(Prot)	
Lanes in Grp	0	2	0	2	0	2	1	0

Grp Vol (v), veh/h	0	0	0	458	0	430	4	0
Grp Sat Flow (s), veh/h/ln	0	1596	0	1596	0	1596	1645	0
Q Serve Time (g_s), s	0.0	0.0	0.0	15.0	0.0	12.6	0.3	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	15.0	0.0	12.6	0.3	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	3	0	427	0	883	7	0
V/C Ratio (X)	0.00	0.00	0.00	1.07	0.00	0.49	0.58	0.00
Avail Cap (c_a), veh/h	0	114	0	427	0	883	59	0
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	48.5	0.0	33.9	55.7	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	64.0	0.0	0.4	59.7	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	112.5	0.0	34.3	115.4	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	6.6	0.0	5.6	0.1	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	3.8	0.0	0.1	0.1	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	10.4	0.0	5.6	0.2	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	1.50	0.00	0.73	0.08	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	7.6	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	6	0	0	8
Lane Assignment	T		T		T			T
Lanes in Grp	2	0	2	0	3	0	0	2
Grp Vol (v), veh/h	4	0	1412	0	1	0	0	1407
Grp Sat Flow (s), veh/h/ln	1641	0	1641	0	1572	0	0	1641
Q Serve Time (g_s), s	0.1	0.0	46.0	0.0	0.0	0.0	0.0	38.6
Cycle Q Clear Time (g_c), s	0.1	0.0	46.0	0.0	0.0	0.0	0.0	38.6
Lane Grp Cap (c), veh/h	1143	0	1348	0	168	0	0	1774
V/C Ratio (X)	0.00	0.00	1.05	0.00	0.01	0.00	0.00	0.79
Avail Cap (c_a), veh/h	1143	0	1348	0	842	0	0	1774
Upstream Filter (I)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	23.8	0.0	33.0	0.0	52.1	0.0	0.0	20.7
Incr Delay (d2), s/veh	0.0	0.0	38.0	0.0	0.0	0.0	0.0	2.6
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	23.8	0.0	71.0	0.0	52.1	0.0	0.0	23.3
1st-Term Q (Q1), veh/ln	0.0	0.0	20.8	0.0	0.0	0.0	0.0	17.4
2nd-Term Q (Q2), veh/ln	0.0	0.0	7.1	0.0	0.0	0.0	0.0	0.6

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	27.9	0.0	0.0	0.0	0.0	18.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.74
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	16.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	16	0	0	18
Lane Assignment	R		R		R			R
Lanes in Grp	1	0	1	0	1	0	0	1
Grp Vol (v), veh/h	833	0	489	0	1	0	0	11
Grp Sat Flow (s), veh/h/ln	1468	0	1468	0	1468	0	0	1468
Q Serve Time (g_s), s	39.0	0.0	33.0	0.0	0.1	0.0	0.0	0.4
Cycle Q Clear Time (g_c), s	39.0	0.0	33.0	0.0	0.1	0.0	0.0	0.4
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	511	0	603	0	52	0	0	793
V/C Ratio (X)	1.63	0.00	0.81	0.00	0.02	0.00	0.00	0.01
Avail Cap (c_a), veh/h	511	0	603	0	262	0	0	793
Upstream Filter (I)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	36.5	0.0	29.2	0.0	44.3	0.0	0.0	10.1
Incr Delay (d2), s/veh	292.1	0.0	8.2	0.0	0.1	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	328.6	0.0	37.4	0.0	44.4	0.0	0.0	10.1
1st-Term Q (Q1), veh/ln	15.8	0.0	13.3	0.0	0.0	0.0	0.0	0.1
2nd-Term Q (Q2), veh/ln	41.5	0.0	1.4	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	57.2	0.0	14.7	0.0	0.0	0.0	0.0	0.1
%ile Storage Ratio (RQ%)	4.61	0.00	1.73	0.00	0.00	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	80.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	97.4
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	4	1299	450	421	1294	10	396	4	766	0	1	1
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	4	1412	489	458	1407	11	430	4	833	0	1	1
Adj No. of Lanes	1	2	1	2	2	1	2	2	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	7	1348	603	427	1774	793	883	1143	511	3	168	52
Arrive On Green	0.00	0.41	0.41	0.13	0.54	0.54	0.28	0.35	0.35	0.00	0.04	0.04
Sat Flow, veh/h	1645	3282	1468	3191	3282	1468	3191	3282	1468	3191	4715	1468
Grp Volume(v), veh/h	4	1412	489	458	1407	11	430	4	833	0	1	1
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1596	1641	1468	1596	1641	1468	1596	1572	1468
Q Serve(g_s), s	0.3	46.0	33.0	15.0	38.6	0.4	12.6	0.1	39.0	0.0	0.0	0.1
Cycle Q Clear(g_c), s	0.3	46.0	33.0	15.0	38.6	0.4	12.6	0.1	39.0	0.0	0.0	0.1
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	7	1348	603	427	1774	793	883	1143	511	3	168	52
V/C Ratio(X)	0.58	1.05	0.81	1.07	0.79	0.01	0.49	0.00	1.63	0.00	0.01	0.02
Avail Cap(c_a), veh/h	59	1348	603	427	1774	793	883	1143	511	114	842	262
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00
Uniform Delay (d), s/veh	55.7	33.0	29.2	48.5	20.7	10.1	33.9	23.8	36.5	0.0	52.1	44.3
Incr Delay (d2), s/veh	59.7	38.0	8.2	64.0	2.6	0.0	0.4	0.0	292.1	0.0	0.0	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	27.9	14.7	10.4	18.0	0.1	5.6	0.0	57.2	0.0	0.0	0.0
LnGrp Delay(d),s/veh	115.4	71.0	37.4	112.5	23.3	10.1	34.3	23.8	328.6	0.0	52.1	44.4
LnGrp LOS	F	F	D	F	C	B	C	C	F		D	D
Approach Vol, veh/h		1905			1876			1267			2	
Approach Delay, s/veh		62.4			45.0			227.7			48.2	
Approach LOS		E			D			F			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	0.0	43.0	19.0	50.0	35.0	8.0	4.5	64.5
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	0.0	39.0	15.0	46.0	23.0	20.0	4.0	57.0
Max Q Clear Time (g_c+I1), s	0.0	41.0	17.0	48.0	14.6	2.1	2.3	40.6
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	1.2	0.0	0.0	8.5

Intersection Summary	
HCM 2010 Ctrl Delay	97.4
HCM 2010 LOS	F

Intersection	
Int Delay, s/veh	40.6

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	534	195	129	856	94	55
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	0	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	580	212	140	930	102	60

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	792	0	1897	686
Stage 1	-	-	-	-	686	-
Stage 2	-	-	-	-	1211	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	794	-	~ 73	434
Stage 1	-	-	-	-	485	-
Stage 2	-	-	-	-	272	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	794	-	~ 60	434
Mov Cap-2 Maneuver	-	-	-	-	~ 60	-
Stage 1	-	-	-	-	485	-
Stage 2	-	-	-	-	224	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.4	$ 498.9
HCM LOS			F

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	88	-	-	794	-
HCM Lane V/C Ratio	1.84	-	-	0.177	-
HCM Control Delay (s)	$ 498.9	-	-	10.5	-
HCM Lane LOS	F	-	-	B	-
HCM 95th %tile Q(veh)	13.7	-	-	0.6	-

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL2	SBL	SBR	NWL	NWR	NWR2
Lane Configurations												
Volume (veh/h)	5	71	29	11	169	278	45	61	2	18	81	11
Number	7	4	14	3	8	18	1	1	16	5	12	12
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1520	1520	1520	1520	1520	1520	1759	1759	1759	1759	1759	1759
Adj Flow Rate, veh/h	5	77	32	12	184	302	49	49	2	20	12	12
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	25	25	25	25	25	25	8	8	8	8	8	8
Opposing Right Turn Influence	Yes			Yes			Yes	Yes		Yes		
Cap, veh/h	8	931	416	563	2039	912	63	63	140	29	110	110
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.01	0.32	0.32	0.39	0.71	0.71	0.04	0.04	0.09	0.02	0.07	0.07
Ln Grp Delay, s/veh	113.8	21.4	15.4	17.0	4.2	2.6	61.2	61.2	37.1	68.3	39.4	39.4
Ln Grp LOS	F	C	B	B	A	A	E	E	D	E	D	D
Approach Vol, veh/h		114			498		117	117		120		
Approach Delay, s/veh		23.8			3.6		48.8	48.8		49.7		
Approach LOS		C			A		D	D		D		

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	5	6	7	8
Case No	3.0	2.0	3.0	2.0	2.0	3.0	2.0	3.0
Phs Duration (G+Y+Rc), s	10.6	7.4	33.0	39.0	5.6	12.4	4.5	67.5
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	22.0	13.0	29.0	10.0	11.0	24.0	10.0	29.0
Max Allow Headway (MAH), s	4.0	4.1	4.2	4.3	4.1	4.1	4.2	4.3
Max Q Clear (g_c+I1), s	6.4	4.6	3.7	2.5	3.1	5.2	2.3	6.6
Green Ext Time (g_e), s	0.2	0.2	0.4	0.7	0.0	0.3	0.0	2.0
Prob of Phs Call (p_c)	1.00	0.71	1.00	0.26	0.39	1.00	0.12	1.00
Prob of Max Out (p_x)	0.00	0.02	0.00	0.29	0.00	0.00	0.00	0.00

Left-Turn Movement Data								
Assigned Mvmt		1		3	5		7	
Mvmt Sat Flow, veh/h		1675		1448	1675		1448	

Through Movement Data								
Assigned Mvmt	2		4			6		8
Mvmt Sat Flow, veh/h	1759		2888			1759		2888

Right-Turn Movement Data								
Assigned Mvmt	12		14			16		18
Mvmt Sat Flow, veh/h	1495		1292			1495		1292

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	5	0	7	0
Lane Assignment		(Prot)		(Prot)	(Prot)		(Prot)	
Lanes in Grp	0	1	0	1	1	0	1	0

Grp Vol (v), veh/h	0	49	0	12	20	0	5	0
Grp Sat Flow (s), veh/h/ln	0	1675	0	1448	1675	0	1448	0
Q Serve Time (g_s), s	0.0	2.6	0.0	0.5	1.1	0.0	0.3	0.0
Cycle Q Clear Time (g_c), s	0.0	2.6	0.0	0.5	1.1	0.0	0.3	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	63	0	563	29	0	8	0
V/C Ratio (X)	0.00	0.78	0.00	0.02	0.68	0.00	0.66	0.00
Avail Cap (c_a), veh/h	0	242	0	563	205	0	161	0
Upstream Filter (I)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	42.9	0.0	16.9	44.0	0.0	44.7	0.0
Incr Delay (d2), s/veh	0.0	18.3	0.0	0.0	24.4	0.0	69.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	61.2	0.0	17.0	68.3	0.0	113.8	0.0
1st-Term Q (Q1), veh/ln	0.0	1.2	0.0	0.2	0.5	0.0	0.1	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.3	0.0	0.0	0.2	0.0	0.1	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	1.5	0.0	0.2	0.7	0.0	0.3	0.0
%ile Storage Ratio (RQ%)	0.00	0.09	0.00	0.01	0.04	0.00	0.01	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	0	6	0	8
Lane Assignment	T		T			T		T
Lanes in Grp	1	0	2	0	0	1	0	2
Grp Vol (v), veh/h	88	0	77	0	0	66	0	184
Grp Sat Flow (s), veh/h/ln	1759	0	1444	0	0	1759	0	1444
Q Serve Time (g_s), s	4.4	0.0	1.7	0.0	0.0	3.2	0.0	1.8
Cycle Q Clear Time (g_c), s	4.4	0.0	1.7	0.0	0.0	3.2	0.0	1.8
Lane Grp Cap (c), veh/h	129	0	931	0	0	165	0	2039
V/C Ratio (X)	0.68	0.00	0.08	0.00	0.00	0.40	0.00	0.09
Avail Cap (c_a), veh/h	430	0	931	0	0	469	0	2039
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	40.7	0.0	21.2	0.0	0.0	38.4	0.0	4.2
Incr Delay (d2), s/veh	6.2	0.0	0.2	0.0	0.0	1.6	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	46.8	0.0	21.4	0.0	0.0	40.0	0.0	4.2
1st-Term Q (Q1), veh/ln	2.1	0.0	0.7	0.0	0.0	1.5	0.0	0.7
2nd-Term Q (Q2), veh/ln	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	2.3	0.0	0.7	0.0	0.0	1.6	0.0	0.7
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	0	16	0	18
Lane Assignment	R		R			R		R
Lanes in Grp	1	0	1	0	0	1	0	1
Grp Vol (v), veh/h	12	0	32	0	0	2	0	302
Grp Sat Flow (s), veh/h/ln	1495	0	1292	0	0	1495	0	1292
Q Serve Time (g_s), s	0.7	0.0	1.3	0.0	0.0	0.1	0.0	4.6
Cycle Q Clear Time (g_c), s	0.7	0.0	1.3	0.0	0.0	0.1	0.0	4.6
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	110	0	416	0	0	140	0	912
V/C Ratio (X)	0.11	0.00	0.08	0.00	0.00	0.01	0.00	0.33
Avail Cap (c_a), veh/h	366	0	416	0	0	399	0	912
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	38.9	0.0	15.1	0.0	0.0	37.0	0.0	1.6
Incr Delay (d2), s/veh	0.4	0.0	0.4	0.0	0.0	0.0	0.0	1.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	39.4	0.0	15.4	0.0	0.0	37.1	0.0	2.6
1st-Term Q (Q1), veh/ln	0.3	0.0	0.5	0.0	0.0	0.0	0.0	1.6
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.3	0.0	0.5	0.0	0.0	0.0	0.0	1.8
%ile Storage Ratio (RQ%)	0.02	0.00	0.03	0.00	0.00	0.00	0.00	0.12
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	19.0
HCM 2010 LOS	B



Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL2	SBL	SBR	NWL	NWR	NWR2
Lane Configurations												
Volume (veh/h)	5	71	29	11	169	278	45	61	2	18	81	11
Number	7	4	14	3	8	18	1	1	16	5	12	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1520	1520	1520	1520	1520	1520	1759	1759	1759	1759	1759	1759
Adj Flow Rate, veh/h	5	77	32	12	184	302	49	49	2	20	12	12
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	25	25	25	25	25	25	8	8	8	8	8	8
Cap, veh/h	8	931	416	563	2039	912	63	63	140	29	110	110
Arrive On Green	0.01	0.32	0.32	0.39	0.71	0.71	0.04	0.04	0.09	0.02	0.07	0.07
Sat Flow, veh/h	1448	2888	1292	1448	2888	1292	1675	1675	1495	1675	1495	1495
Grp Volume(v), veh/h	5	77	32	12	184	302	49	49	2	20	12	12
Grp Sat Flow(s),veh/h/ln	1448	1444	1292	1448	1444	1292	1675	1675	1495	1675	1495	1495
Q Serve(g_s), s	0.3	1.7	1.3	0.5	1.8	4.6	2.6	2.6	0.1	1.1	0.7	0.7
Cycle Q Clear(g_c), s	0.3	1.7	1.3	0.5	1.8	4.6	2.6	2.6	0.1	1.1	0.7	0.7
Prop In Lane	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lane Grp Cap(c), veh/h	8	931	416	563	2039	912	63	63	140	29	110	110
V/C Ratio(X)	0.66	0.08	0.08	0.02	0.09	0.33	0.78	0.78	0.01	0.68	0.11	0.11
Avail Cap(c_a), veh/h	161	931	416	563	2039	912	242	242	399	205	366	366
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	44.7	21.2	15.1	16.9	4.2	1.6	42.9	42.9	37.0	44.0	38.9	38.9
Incr Delay (d2), s/veh	69.1	0.2	0.4	0.0	0.1	1.0	18.3	18.3	0.0	24.4	0.4	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	0.7	0.5	0.2	0.7	1.8	1.5	1.5	0.0	0.7	0.3	0.3
LnGrp Delay(d),s/veh	113.8	21.4	15.4	17.0	4.2	2.6	61.2	61.2	37.1	68.3	39.4	39.4
LnGrp LOS	F	C	B	B	A	A	E	E	D	E	D	D
Approach Vol, veh/h		114			498		117	117		120		
Approach Delay, s/veh		23.8			3.6		48.8	48.8		49.7		
Approach LOS		C			A		D	D		D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	7.4	10.6	39.0	33.0	5.6	12.4	4.5	67.5
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	3.0	22.0	10.0	29.0	11.0	24.0	10.0	29.0
Max Q Clear Time (g_c+I1), s	4.6	6.4	2.5	3.7	3.1	5.2	2.3	6.6
Green Ext Time (p_c), s	0.2	0.2	0.7	0.4	0.0	0.3	0.0	2.0

Intersection Summary	
HCM 2010 Ctrl Delay	19.0
HCM 2010 LOS	B



Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NWL	NWR
Lane Configurations										
Volume (veh/h)	0	286	225	26	1330	0	64	197	0	0
Number	7	4	14	3	8	18	1	16		
Initial Q, veh	0	0	0	0	0	0	0	0		
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00		
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Adj Sat Flow, veh/h/ln	0	1520	1900	1900	1520	0	1450	1900		
Adj Flow Rate, veh/h	0	311	245	28	1446	0	70	214		
Adj No. of Lanes	0	1	0	0	1	0	0	0		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92		
Percent Heavy Veh, %	0	25	25	25	25	0	0	0		
Opposing Right Turn Influence	No			Yes			Yes			
Cap, veh/h	0	525	414	0	1012	0	76	233		
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Prop Arrive On Green	0.00	0.67	0.67	0.00	0.67	0.00	0.25	0.25		
Ln Grp Delay, s/veh	0.0	0.0	11.0	0.0	213.4	0.0	59.5	0.0		
Ln Grp LOS			B		F		E			

Approach Vol, veh/h	556	1446	285	Timer:
Approach Delay, s/veh	11.0	213.4	59.5	Assigned Phs
Approach LOS	B	F	E	Case No
Phs Duration (G+Y+Rc), s	26.1	0.0	63.9	63.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0
Max Green (Gmax), s	25.0	4.0	49.0	57.0
Max Allow Headway (MAH), s	4.4	0.0	4.1	4.1
Max Q Clear (g_c+I1), s	21.7	0.0	21.6	61.9
Green Ext Time (g_e), s	0.4	0.0	15.9	0.0
Prob of Phs Call (p_c)	1.00	0.00	1.00	1.00
Prob of Max Out (p_x)	1.00	0.00	0.00	0.00

Left-Turn Movement Data				
Assigned Mvmt	1	3	7	
Mvmt Sat Flow, veh/h	311	0	0	

Through Movement Data				
Assigned Mvmt	6		4	8
Mvmt Sat Flow, veh/h	4		789	1520

Right-Turn Movement Data				
Assigned Mvmt	16		14	18
Mvmt Sat Flow, veh/h	951		621	0

Left Lane Group Data									
Assigned Mvmt	1	0	3	7	0	0	0	0	
Lane Assignment	L+T+R								
Lanes in Grp	1	0	0	0	0	0	0	0	
Grp Vol (v), veh/h	285	0	0	0	0	0	0	0	
Grp Sat Flow (s), veh/h/ln	1267	0	0	0	0	0	0	0	
Q Serve Time (g_s), s	19.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Cycle Q Clear Time (g_c), s	19.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	59.9	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	311	0	0	0	0	0	0	0
V/C Ratio (X)	0.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	352	0	0	0	0	0	0	0
Upstream Filter (I)	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	33.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	26.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	59.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00
%ile Back of Q (50%), veh/ln	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	6	0	0	4	0	0	0	8
Lane Assignment								T
Lanes in Grp	0	0	0	0	0	0	0	1
Grp Vol (v), veh/h	0	0	0	0	0	0	0	1446
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	1520
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.9
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.9
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	1012
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.43
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	1012
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.94
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	198.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	213.4
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.7
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.8
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.5

%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	108.5
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4

Right Lane Group Data								
Assigned Mvmt	16	0	0	14	0	0	0	18
Lane Assignment				T+R				
Lanes in Grp	0	0	0	1	0	0	0	0
Grp Vol (v), veh/h	0	0	0	556	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1410	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	19.6	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	19.6	0.0	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.75	0.00	0.00	0.44	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	0	0	939	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	939	0	0	0	0
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	8.3	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	11.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	7.6	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	8.3	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	145.0
HCM 2010 LOS	F

Notes

User approved volume balancing among the lanes for turning movement.



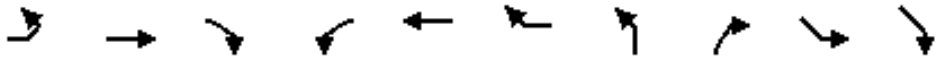
Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NWL	NWR
Lane Configurations										
Volume (veh/h)	0	286	225	26	1330	0	64	197	0	0
Number	7	4	14	3	8	18	1	16		
Initial Q (Qb), veh	0	0	0	0	0	0	0	0		
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00		
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Adj Sat Flow, veh/h/ln	0	1520	1900	1900	1520	0	1450	1900		
Adj Flow Rate, veh/h	0	311	245	28	1446	0	70	214		
Adj No. of Lanes	0	1	0	0	1	0	0	0		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92		
Percent Heavy Veh, %	0	25	25	25	25	0	0	0		
Cap, veh/h	0	525	414	0	1012	0	76	233		
Arrive On Green	0.00	0.67	0.67	0.00	0.67	0.00	0.25	0.25		
Sat Flow, veh/h	0	789	621	0	1520	0	311	951		
Grp Volume(v), veh/h	0	0	556	0	1446	0	285	0		
Grp Sat Flow(s),veh/h/ln	0	0	1410	0	1520	0	1267	0		
Q Serve(g_s), s	0.0	0.0	19.6	0.0	59.9	0.0	19.7	0.0		
Cycle Q Clear(g_c), s	0.0	0.0	19.6	0.0	59.9	0.0	19.7	0.0		
Prop In Lane	0.00		0.44	0.00		0.00	0.25	0.75		
Lane Grp Cap(c), veh/h	0	0	939	0	1012	0	311	0		
V/C Ratio(X)	0.00	0.00	0.59	0.00	1.43	0.00	0.92	0.00		
Avail Cap(c_a), veh/h	0	0	939	0	1012	0	352	0		
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Upstream Filter(I)	0.00	0.00	1.00	0.00	0.94	0.00	1.00	0.00		
Uniform Delay (d), s/veh	0.0	0.0	8.3	0.0	15.0	0.0	33.1	0.0		
Incr Delay (d2), s/veh	0.0	0.0	2.7	0.0	198.3	0.0	26.4	0.0		
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
%ile BackOfQ(50%),veh/ln	0.0	0.0	8.3	0.0	80.5	0.0	9.2	0.0		
LnGrp Delay(d),s/veh	0.0	0.0	11.0	0.0	213.4	0.0	59.5	0.0		
LnGrp LOS			B		F		E			
Approach Vol, veh/h		556			1446		285			
Approach Delay, s/veh		11.0			213.4		59.5			
Approach LOS		B			F		E			

Timer	1	2	3	4	5	6	7	8
Assigned Phs			3	4		6		8
Phs Duration (G+Y+Rc), s			0.0	63.9		26.1		63.9
Change Period (Y+Rc), s			4.0	4.0		4.0		4.0
Max Green Setting (Gmax), s			4.0	49.0		25.0		57.0
Max Q Clear Time (g_c+I1), s			0.0	21.6		21.7		61.9
Green Ext Time (p_c), s			0.0	15.9		0.4		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	145.0
HCM 2010 LOS	F

Notes

User approved volume balancing among the lanes for turning movement.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBR	SEL	SER
Lane Configurations										
Volume (veh/h)	4	862	0	0	379	272	52	128	0	0
Number	7	4	14	3	8	18	5	12		
Initial Q, veh	0	0	0	0	0	0	0	0		
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00		
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Adj Sat Flow, veh/h/ln	1520	1520	0	0	1520	1520	1900	1900		
Adj Flow Rate, veh/h	4	937	0	0	412	296	0	139		
Adj No. of Lanes	1	1	0	0	1	1	0	0		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92		
Percent Heavy Veh, %	25	25	0	0	25	25	0	0		
Opposing Right Turn Influence	Yes			No			Yes			
Cap, veh/h	74	1124	0	0	980	833	0	157		
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Prop Arrive On Green	0.05	0.74	0.00	0.00	0.64	0.64	0.00	0.17		
Ln Grp Delay, s/veh	40.9	14.2	0.0	0.0	9.1	8.6	0.0	67.3		
Ln Grp LOS	D	B			A	A		E		

Approach Vol, veh/h	941	708	196	Timer:
Approach Delay, s/veh	14.3	8.9	67.3	Assigned Phs
Approach LOS	B	A	E	Case No

Phs Duration (G+Y+Rc), s	19.4	70.6	62.0	8.6
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0
Max Green (Gmax), s	16.0	66.0	58.0	4.0
Max Allow Headway (MAH), s	4.3	4.1	4.2	4.1
Max Q Clear (g_c+I1), s	15.4	39.6	13.9	2.2
Green Ext Time (g_e), s	0.0	4.8	3.0	0.9
Prob of Phs Call (p_c)	1.00	1.00	1.00	0.10
Prob of Max Out (p_x)	1.00	0.00	0.00	1.00

Left-Turn Movement Data				
Assigned Mvmt	5		3	7
Mvmt Sat Flow, veh/h	0		0	1448

Through Movement Data				
Assigned Mvmt	2	4	8	
Mvmt Sat Flow, veh/h	375	1520	1520	

Right-Turn Movement Data				
Assigned Mvmt	12	14	18	
Mvmt Sat Flow, veh/h	914	0	1292	

Left Lane Group Data								
Assigned Mvmt	0	5	0	0	0	0	3	7
Lane Assignment								(Prot)
Lanes in Grp	0	0	0	0	0	0	0	1
Grp Vol (v), veh/h	0	0	0	0	0	0	0	4
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	1448
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2

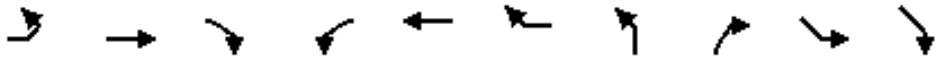
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	58.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	74
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	74
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.6
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.9
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	0	8	0
Lane Assignment				T			T	
Lanes in Grp	0	0	0	1	0	0	1	0
Grp Vol (v), veh/h	0	0	0	937	0	0	412	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1520	0	0	1520	0
Q Serve Time (g_s), s	0.0	0.0	0.0	37.6	0.0	0.0	11.9	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	37.6	0.0	0.0	11.9	0.0
Lane Grp Cap (c), veh/h	0	0	0	1124	0	0	980	0
V/C Ratio (X)	0.00	0.00	0.00	0.83	0.00	0.00	0.42	0.00
Avail Cap (c_a), veh/h	0	0	0	1124	0	0	980	0
Upstream Filter (I)	0.00	0.00	0.00	0.85	0.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	7.9	0.0	0.0	7.8	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	6.3	0.0	0.0	1.3	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	14.2	0.0	0.0	9.1	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	15.4	0.0	0.0	4.9	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	2.0	0.0	0.0	0.4	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	17.3	0.0	0.0	5.3	0.0

%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.15	0.00	0.00	0.01	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	0	18	0
Lane Assignment		T+R					R	
Lanes in Grp	0	1	0	0	0	0	1	0
Grp Vol (v), veh/h	0	196	0	0	0	0	296	0
Grp Sat Flow (s), veh/h/ln	0	1289	0	0	0	0	1292	0
Q Serve Time (g_s), s	0.0	13.4	0.0	0.0	0.0	0.0	9.5	0.0
Cycle Q Clear Time (g_c), s	0.0	13.4	0.0	0.0	0.0	0.0	9.5	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.71	0.00	0.00	0.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	221	0	0	0	0	833	0
V/C Ratio (X)	0.00	0.89	0.00	0.00	0.00	0.00	0.36	0.00
Avail Cap (c_a), veh/h	0	229	0	0	0	0	833	0
Upstream Filter (I)	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	36.4	0.0	0.0	0.0	0.0	7.4	0.0
Incr Delay (d2), s/veh	0.0	30.9	0.0	0.0	0.0	0.0	1.2	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	67.3	0.0	0.0	0.0	0.0	8.6	0.0
1st-Term Q (Q1), veh/ln	0.0	4.7	0.0	0.0	0.0	0.0	3.4	0.0
2nd-Term Q (Q2), veh/ln	0.0	1.9	0.0	0.0	0.0	0.0	0.3	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	6.6	0.0	0.0	0.0	0.0	3.6	0.0
%ile Storage Ratio (RQ%)	0.00	0.19	0.00	0.00	0.00	0.00	0.19	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	17.9
HCM 2010 LOS	B



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBR	SEL	SER
Lane Configurations										
Volume (veh/h)	4	862	0	0	379	272	52	128	0	0
Number	7	4	14	3	8	18	5	12		
Initial Q (Qb), veh	0	0	0	0	0	0	0	0		
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00		
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Adj Sat Flow, veh/h/ln	1520	1520	0	0	1520	1520	1900	1900		
Adj Flow Rate, veh/h	4	937	0	0	412	296	0	139		
Adj No. of Lanes	1	1	0	0	1	1	0	0		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92		
Percent Heavy Veh, %	25	25	0	0	25	25	0	0		
Cap, veh/h	74	1124	0	0	980	833	0	157		
Arrive On Green	0.05	0.74	0.00	0.00	0.64	0.64	0.00	0.17		
Sat Flow, veh/h	1448	1520	0	0	1520	1292	0	914		
Grp Volume(v), veh/h	4	937	0	0	412	296	0	196		
Grp Sat Flow(s),veh/h/ln	1448	1520	0	0	1520	1292	0	1289		
Q Serve(g_s), s	0.2	37.6	0.0	0.0	11.9	9.5	0.0	13.4		
Cycle Q Clear(g_c), s	0.2	37.6	0.0	0.0	11.9	9.5	0.0	13.4		
Prop In Lane	1.00		0.00	0.00		1.00	0.00	0.71		
Lane Grp Cap(c), veh/h	74	1124	0	0	980	833	0	221		
V/C Ratio(X)	0.05	0.83	0.00	0.00	0.42	0.36	0.00	0.89		
Avail Cap(c_a), veh/h	74	1124	0	0	980	833	0	229		
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Upstream Filter(I)	0.85	0.85	0.00	0.00	1.00	1.00	0.00	1.00		
Uniform Delay (d), s/veh	40.6	7.9	0.0	0.0	7.8	7.4	0.0	36.4		
Incr Delay (d2), s/veh	0.3	6.3	0.0	0.0	1.3	1.2	0.0	30.9		
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
%ile BackOfQ(50%),veh/ln	0.1	17.3	0.0	0.0	5.3	3.6	0.0	6.6		
LnGrp Delay(d),s/veh	40.9	14.2	0.0	0.0	9.1	8.6	0.0	67.3		
LnGrp LOS	D	B			A	A		E		
Approach Vol, veh/h		941			708		196			
Approach Delay, s/veh		14.3			8.9		67.3			
Approach LOS		B			A		E			

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4			7	8
Phs Duration (G+Y+Rc), s		19.4		70.6			8.6	62.0
Change Period (Y+Rc), s		4.0		4.0			4.0	4.0
Max Green Setting (Gmax), s		16.0		66.0			4.0	58.0
Max Q Clear Time (g_c+I1), s		15.4		39.6			2.2	13.9
Green Ext Time (p_c), s		0.0		4.8			0.9	3.0

Intersection Summary	
HCM 2010 Ctrl Delay	17.9
HCM 2010 LOS	B

Intersection	
Int Delay, s/veh	1.3

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	135	9	71	348	11	7
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	24	24	24	24	10	10
Mvmt Flow	147	10	77	378	12	8

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	157	0	685	152
Stage 1	-	-	-	-	152	-
Stage 2	-	-	-	-	533	-
Critical Hdwy	-	-	4.34	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.416	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	1299	-	402	874
Stage 1	-	-	-	-	857	-
Stage 2	-	-	-	-	573	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1299	-	372	874
Mov Cap-2 Maneuver	-	-	-	-	372	-
Stage 1	-	-	-	-	857	-
Stage 2	-	-	-	-	530	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.3	12.8
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	479	-	-	1299	-
HCM Lane V/C Ratio	0.041	-	-	0.059	-
HCM Control Delay (s)	12.8	-	-	7.9	0
HCM Lane LOS	B	-	-	A	A
HCM 95th %tile Q(veh)	0.1	-	-	0.2	-

Intersection	
Int Delay, s/veh	64.8

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	591	120	112	16	30	77
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	8	8	8	8
Mvmt Flow	642	130	122	17	33	84

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	279	130	0	0	139	0
Stage 1	130	-	-	-	-	-
Stage 2	149	-	-	-	-	-
Critical Hdwy	6.5	6.3	-	-	4.18	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	-	-	2.272	-
Pot Cap-1 Maneuver	694	899	-	-	1408	-
Stage 1	877	-	-	-	-	-
Stage 2	859	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	677	899	-	-	1408	-
Mov Cap-2 Maneuver	677	-	-	-	-	-
Stage 1	877	-	-	-	-	-
Stage 2	838	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	85.9	0	2.1
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	706	1408	-
HCM Lane V/C Ratio	-	-	1.095	0.023	-
HCM Control Delay (s)	-	-	85.9	7.6	0
HCM Lane LOS	-	-	F	A	A
HCM 95th %tile Q(veh)	-	-	21.7	0.1	-

Intersection	
Intersection Delay, s/veh	45.9
Intersection LOS	E

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	1	20	0	0	241	684	30	0	0	30	4
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	8	8	8	10	8	8	8	10	10	10	10
Mvmt Flow	0	1	22	0	0	262	743	33	0	0	33	4
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	1	1	1
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	1	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	1	1
HCM Control Delay	9	54.8	9.8
HCM LOS	A	F	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	5%	25%	26%
Vol Thru, %	88%	95%	72%	34%
Vol Right, %	12%	0%	3%	40%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	34	21	955	192
LT Vol	0	1	241	50
Through Vol	30	20	684	65
RT Vol	4	0	30	77
Lane Flow Rate	37	23	1038	209
Geometry Grp	1	1	1	1
Degree of Util (X)	0.065	0.037	1	0.341
Departure Headway (Hd)	6.348	5.761	4.866	5.888
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	567	623	747	614
Service Time	4.362	3.785	2.887	3.896
HCM Lane V/C Ratio	0.065	0.037	1.39	0.34
HCM Control Delay	9.8	9	54.8	11.9
HCM Lane LOS	A	A	F	B
HCM 95th-tile Q	0.2	0.1	16.6	1.5

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	50	65	77
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10
Mvmt Flow	0	54	71	84
Number of Lanes	0	0	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	1
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	11.9
HCM LOS	B

Lane

Intersection	
Int Delay, s/veh	0.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NWL	NWR
Vol, veh/h	0	13	9	0	947	0	15	6	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	None	-	-
Storage Length	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	0	-	0	-
Grade, %	-	0	-	-	0	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	24	24	10	10
Mvmt Flow	0	14	10	0	1029	0	16	7	0	0

Major/Minor	Major1			Major2			Minor2			
Conflicting Flow All	1029	0	0	24	0	0	1048	1029		
Stage 1	-	-	-	-	-	-	1029	-		
Stage 2	-	-	-	-	-	-	19	-		
Critical Hdwy	4.2	-	-	4.2	-	-	6.64	6.44		
Critical Hdwy Stg 1	-	-	-	-	-	-	5.64	-		
Critical Hdwy Stg 2	-	-	-	-	-	-	5.64	-		
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.716	3.516		
Pot Cap-1 Maneuver	645	-	-	1540	-	-	229	258		
Stage 1	-	-	-	-	-	-	314	-		
Stage 2	-	-	-	-	-	-	950	-		
Platoon blocked, %		-	-		-	-				
Mov Cap-1 Maneuver	645	-	-	1540	-	-	229	258		
Mov Cap-2 Maneuver	-	-	-	-	-	-	229	-		
Stage 1	-	-	-	-	-	-	314	-		
Stage 2	-	-	-	-	-	-	950	-		

Approach	EB	WB	SB
HCM Control Delay, s	0	0	20.3
HCM LOS			C

Minor Lane/Major Mvmt	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	645	-	-	1540	-	-	258
HCM Lane V/C Ratio	-	-	-	-	-	-	0.088
HCM Control Delay (s)	0	-	-	0	-	-	20.3
HCM Lane LOS	A	-	-	A	-	-	C
HCM 95th %tile Q(veh)	0	-	-	0	-	-	0.3

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SEL	SET	SER	NWL	NWT	NWR
Vol, veh/h	1	27	0	0	474	75	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	24	24	24	24	24	24
Mvmt Flow	1	29	0	0	515	82	0	0	0	0	0	0

Major/Minor	Major1			Major2						Minor1		
Conflicting Flow All	597	0	0	29	0	0				588	629	29
Stage 1	-	-	-	-	-	-				32	32	-
Stage 2	-	-	-	-	-	-				556	597	-
Critical Hdwy	4.2	-	-	4.2	-	-				6.64	6.74	6.44
Critical Hdwy Stg 1	-	-	-	-	-	-				5.64	5.74	-
Critical Hdwy Stg 2	-	-	-	-	-	-				5.64	5.74	-
Follow-up Hdwy	2.29	-	-	2.29	-	-				3.716	4.216	3.516
Pot Cap-1 Maneuver	942	-	-	1534	-	-				437	372	986
Stage 1	-	-	-	-	-	-				937	827	-
Stage 2	-	-	-	-	-	-				533	458	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	942	-	-	1534	-	-				437	0	986
Mov Cap-2 Maneuver	-	-	-	-	-	-				437	0	-
Stage 1	-	-	-	-	-	-				936	0	-
Stage 2	-	-	-	-	-	-				533	0	-

Approach	EB	WB	NW
HCM Control Delay, s	0.3	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NWLn1	EBL	EBT	EBR	WBL	WBT	WBR
Capacity (veh/h)	-	942	-	-	1534	-	-
HCM Lane V/C Ratio	-	0.001	-	-	-	-	-
HCM Control Delay (s)	0	8.8	0	-	0	-	-
HCM Lane LOS	A	A	A	-	A	-	-
HCM 95th %tile Q(veh)	-	0	-	-	0	-	-

Intersection	
Int Delay, s/veh	5.1

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	0	0	238	32	109	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	0	259	35	118	0

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	670	118	118	0	-	0
Stage 1	118	-	-	-	-	-
Stage 2	552	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	410	913	1422	-	-	-
Stage 1	888	-	-	-	-	-
Stage 2	561	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	334	913	1422	-	-	-
Mov Cap-2 Maneuver	334	-	-	-	-	-
Stage 1	888	-	-	-	-	-
Stage 2	457	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	0	7.1	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1422	-	-	-	-
HCM Lane V/C Ratio	0.182	-	-	-	-
HCM Control Delay (s)	8.1	0	0	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0.7	-	-	-	-

Intersection	
Int Delay, s/veh	0

Movement	NBL	NBT	SBT	SBR	SEL	SER
Vol, veh/h	0	63	104	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	68	113	0	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	113	0	-	0	181	113
Stage 1	-	-	-	-	113	-
Stage 2	-	-	-	-	68	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1428	-	-	-	790	919
Stage 1	-	-	-	-	892	-
Stage 2	-	-	-	-	935	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1428	-	-	-	790	919
Mov Cap-2 Maneuver	-	-	-	-	790	-
Stage 1	-	-	-	-	892	-
Stage 2	-	-	-	-	935	-

Approach	NB	SB	SE
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBL	NBT	SELn1	SBT	SBR
Capacity (veh/h)	1428	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	0	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	-	-	-

Intersection	
Int Delay, s/veh	2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	54	23	866	160	4	130
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	8	8	8	8
Mvmt Flow	59	25	941	174	4	141

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1178	1028	0	0	1115	0
Stage 1	1028	-	-	-	-	-
Stage 2	150	-	-	-	-	-
Critical Hdwy	6.5	6.3	-	-	4.18	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	-	-	2.272	-
Pot Cap-1 Maneuver	203	274	-	-	605	-
Stage 1	333	-	-	-	-	-
Stage 2	859	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	202	274	-	-	605	-
Mov Cap-2 Maneuver	202	-	-	-	-	-
Stage 1	333	-	-	-	-	-
Stage 2	853	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	31.3	0	0.3
HCM LOS	D		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	219	605	-
HCM Lane V/C Ratio	-	-	0.382	0.007	-
HCM Control Delay (s)	-	-	31.3	11	0
HCM Lane LOS	-	-	D	B	A
HCM 95th %tile Q(veh)	-	-	1.7	0	-

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NWL	NWR
Vol, veh/h	0	45	1	3	350	216	25	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	None	-	-
Storage Length	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	0	-	0	-
Grade, %	-	0	-	-	0	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	24	24	24	24
Mvmt Flow	0	49	1	3	380	235	27	0	0	0

Major/Minor	Major1			Major2			Minor2			
Conflicting Flow All	615	0	0	50	0	0	553	498		
Stage 1	-	-	-	-	-	-	504	-		
Stage 2	-	-	-	-	-	-	49	-		
Critical Hdwy	4.2	-	-	4.2	-	-	6.64	6.44		
Critical Hdwy Stg 1	-	-	-	-	-	-	5.64	-		
Critical Hdwy Stg 2	-	-	-	-	-	-	5.64	-		
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.716	3.516		
Pot Cap-1 Maneuver	927	-	-	1507	-	-	458	531		
Stage 1	-	-	-	-	-	-	564	-		
Stage 2	-	-	-	-	-	-	920	-		
Platoon blocked, %		-	-		-	-				
Mov Cap-1 Maneuver	927	-	-	1507	-	-	457	531		
Mov Cap-2 Maneuver	-	-	-	-	-	-	457	-		
Stage 1	-	-	-	-	-	-	562	-		
Stage 2	-	-	-	-	-	-	920	-		

Approach	EB	WB	SB
HCM Control Delay, s	0	0	
HCM LOS			-

Minor Lane/Major Mvmt	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	927	-	-	1507	-	-	-
HCM Lane V/C Ratio	-	-	-	0.002	-	-	-
HCM Control Delay (s)	0	-	-	7.4	0	-	-
HCM Lane LOS	A	-	-	A	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0	-	-	-

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NWL	NWR
Vol, veh/h	110	0	0	766	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	24	24
Mvmt Flow	120	0	0	833	0	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	120	0	953	120
Stage 1	-	-	-	-	120	-
Stage 2	-	-	-	-	833	-
Critical Hdwy	-	-	4.2	-	6.64	6.44
Critical Hdwy Stg 1	-	-	-	-	5.64	-
Critical Hdwy Stg 2	-	-	-	-	5.64	-
Follow-up Hdwy	-	-	2.29	-	3.716	3.516
Pot Cap-1 Maneuver	-	-	1420	-	262	875
Stage 1	-	-	-	-	853	-
Stage 2	-	-	-	-	392	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1420	-	262	875
Mov Cap-2 Maneuver	-	-	-	-	262	-
Stage 1	-	-	-	-	853	-
Stage 2	-	-	-	-	392	-

Approach	EB	WB	NW
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NWLn1	NWLn2	EBT	EBR	WBL	WBT
Capacity (veh/h)	-	-	-	-	1420	-
HCM Lane V/C Ratio	-	-	-	-	-	-
HCM Control Delay (s)	0	0	-	-	0	-
HCM Lane LOS	A	A	-	-	A	-
HCM 95th %tile Q(veh)	-	-	-	-	0	-

Intersection	
Int Delay, s/veh	0.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NEL	NER
Vol, veh/h	0	92	1	53	575	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	0	-	0	-
Grade, %	-	0	-	-	0	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	25	25	25	25	25	25	10	10	10	10
Mvmt Flow	0	100	1	58	625	0	0	0	0	0

Major/Minor	Major1			Major2			Minor2		Minor1	
Conflicting Flow All	625	0	0	101	0	0	841	625	841	101
Stage 1	-	-	-	-	-	-	740	-	101	-
Stage 2	-	-	-	-	-	-	101	-	740	-
Critical Hdwy	4.35	-	-	4.35	-	-	7.2	6.3	7.2	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	6.2	-	6.2	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.2	-	6.2	-
Follow-up Hdwy	2.425	-	-	2.425	-	-	3.59	3.39	3.59	3.39
Pot Cap-1 Maneuver	855	-	-	1359	-	-	276	471	276	933
Stage 1	-	-	-	-	-	-	396	-	886	-
Stage 2	-	-	-	-	-	-	886	-	396	-
Platoon blocked, %		-	-		-	-				
Mov Cap-1 Maneuver	855	-	-	1359	-	-	262	471	262	933
Mov Cap-2 Maneuver	-	-	-	-	-	-	262	-	262	-
Stage 1	-	-	-	-	-	-	396	-	886	-
Stage 2	-	-	-	-	-	-	886	-	370	-

Approach	EB	WB	SB	NE
HCM Control Delay, s	0	0.7	0	0
HCM LOS			A	A

Minor Lane/Major Mvmt	NELn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	-	855	-	-	1359	-	-	-
HCM Lane V/C Ratio	-	-	-	-	0.042	-	-	-
HCM Control Delay (s)	0	0	-	-	7.8	0	-	0
HCM Lane LOS	A	A	-	-	A	A	-	A
HCM 95th %tile Q(veh)	-	0	-	-	0.1	-	-	-

Intersection	
Intersection Delay, s/veh	0
Intersection LOS	-

Movement	NBU	NBT	NBR	SBU	SBL	SBT	SWU	SWL	SWR
Vol, veh/h	0	0	0	0	0	0	0	0	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	8	8	10	8	8	10	10	10
Mvmt Flow	0	0	0	0	0	0	0	0	0
Number of Lanes	0	1	0	0	0	1	0	0	1

Approach	NB	SB	SW
Opposing Approach	SB	NB	
Opposing Lanes	1	1	0
Conflicting Approach Left		SW	NB
Conflicting Lanes Left	0	1	1
Conflicting Approach Right	SW		SB
Conflicting Lanes Right	1	0	1
HCM Control Delay	0	0	0
HCM LOS	-	-	-

Lane	NBLn1	SBLn1	SWLn1
Vol Left, %	0%	0%	0%
Vol Thru, %	100%	100%	100%
Vol Right, %	0%	0%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	0	0	0
LT Vol	0	0	0
Through Vol	0	0	0
RT Vol	0	0	0
Lane Flow Rate	0	0	0
Geometry Grp	1	1	1
Degree of Util (X)	0	0	0
Departure Headway (Hd)	4.036	4.036	4.07
Convergence, Y/N	Yes	Yes	Yes
Cap	0	0	0
Service Time	2.036	2.036	2.07
HCM Lane V/C Ratio	0	0	0
HCM Control Delay	7	7	7.1
HCM Lane LOS	N	N	N
HCM 95th-tile Q	0	0	0

Intersection	
Int Delay, s/veh	-

Movement	NBT	NBR	SBL	SBT	SWL	SWR
Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	8	8	8	8	10	10
Mvmt Flow	0	0	0	0	0	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	0	0	0	0
Stage 1	-	-	-	-	0	-
Stage 2	-	-	-	-	0	-
Critical Hdwy	-	-	4.18	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.272	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	NB	SB	SW
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBT	NBR	SBL	SBT	SWLn1
Capacity (veh/h)	-	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	-	-	0	-	0
HCM Lane LOS	-	-	A	-	A
HCM 95th %tile Q(veh)	-	-	-	-	-

Intersection	
Int Delay, s/veh	1.3

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	135	9	71	348	11	7
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	147	10	77	378	12	8

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	157	0	685	152
Stage 1	-	-	-	-	152	-
Stage 2	-	-	-	-	533	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	1375	-	402	874
Stage 1	-	-	-	-	857	-
Stage 2	-	-	-	-	573	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1375	-	373	874
Mov Cap-2 Maneuver	-	-	-	-	373	-
Stage 1	-	-	-	-	857	-
Stage 2	-	-	-	-	532	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.3	12.7
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	NBLn2	EBT	EBR	WBL	WBT
Capacity (veh/h)	373	874	-	-	1375	-
HCM Lane V/C Ratio	0.032	0.009	-	-	0.056	-
HCM Control Delay (s)	15	9.2	-	-	7.8	0
HCM Lane LOS	C	A	-	-	A	A
HCM 95th %tile Q(veh)	0.1	0	-	-	0.2	-

Intersection	
Int Delay, s/veh	5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	5	11	4	38	81	7	15	63	12	3	93	42
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	5	12	4	41	88	8	16	68	13	3	101	46

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	285	244	124	247	261	75	147	0	0	82	0	0
Stage 1	130	130	-	108	108	-	-	-	-	-	-	-
Stage 2	155	114	-	139	153	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.2	6.6	6.3	4.2	-	-	4.2	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.59	4.09	3.39	2.29	-	-	2.29	-	-
Pot Cap-1 Maneuver	652	644	906	690	630	965	1387	-	-	1466	-	-
Stage 1	855	773	-	878	791	-	-	-	-	-	-	-
Stage 2	829	786	-	845	756	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	571	635	906	670	621	965	1387	-	-	1466	-	-
Mov Cap-2 Maneuver	571	635	-	670	621	-	-	-	-	-	-	-
Stage 1	845	771	-	867	782	-	-	-	-	-	-	-
Stage 2	721	777	-	826	754	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	10.7	12	1.3	0.2
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1387	-	-	656	648	1466	-	-
HCM Lane V/C Ratio	0.012	-	-	0.033	0.211	0.002	-	-
HCM Control Delay (s)	7.6	0	-	10.7	12	7.5	0	-
HCM Lane LOS	A	A	-	B	B	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0.8	0	-	-

Intersection	
Int Delay, s/veh	0.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	6	5	4	1	6	1	12	245	3	1	268	12
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	362	-	-	401	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	22	22	22	22	22	22	25	25	25	25	25	25
Mvmt Flow	7	5	4	1	7	1	13	266	3	1	291	13

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	598	596	298	599	601	268	304	0	0	270	0	0
Stage 1	300	300	-	294	294	-	-	-	-	-	-	-
Stage 2	298	296	-	305	307	-	-	-	-	-	-	-
Critical Hdwy	7.32	6.72	6.42	7.32	6.72	6.42	4.35	-	-	4.35	-	-
Critical Hdwy Stg 1	6.32	5.72	-	6.32	5.72	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.32	5.72	-	6.32	5.72	-	-	-	-	-	-	-
Follow-up Hdwy	3.698	4.198	3.498	3.698	4.198	3.498	2.425	-	-	2.425	-	-
Pot Cap-1 Maneuver	386	391	697	386	388	725	1137	-	-	1172	-	-
Stage 1	668	631	-	673	635	-	-	-	-	-	-	-
Stage 2	670	634	-	664	626	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	377	386	697	376	383	725	1137	-	-	1172	-	-
Mov Cap-2 Maneuver	377	386	-	376	383	-	-	-	-	-	-	-
Stage 1	660	630	-	665	628	-	-	-	-	-	-	-
Stage 2	654	627	-	654	625	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	13.6	14.1	0.4	0
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1137	-	-	433	406	1172	-	-
HCM Lane V/C Ratio	0.011	-	-	0.038	0.021	0.001	-	-
HCM Control Delay (s)	8.2	-	-	13.6	14.1	8.1	-	-
HCM Lane LOS	A	-	-	B	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0.1	0	-	-

Intersection	
Int Delay, s/veh	0.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	0	115	1	8	614	5	12	6	0	6	4	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	12	12	12	12	12	12	10	10	10	10	10	10
Mvmt Flow	0	125	1	9	667	5	13	7	0	7	4	0

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	673	0	0	126	0	0	816	816	126	817	814	670
Stage 1	-	-	-	-	-	-	126	126	-	688	688	-
Stage 2	-	-	-	-	-	-	690	690	-	129	126	-
Critical Hdwy	4.22	-	-	4.22	-	-	7.2	6.6	6.3	7.2	6.6	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Follow-up Hdwy	2.308	-	-	2.308	-	-	3.59	4.09	3.39	3.59	4.09	3.39
Pot Cap-1 Maneuver	873	-	-	1401	-	-	287	303	903	286	303	443
Stage 1	-	-	-	-	-	-	859	777	-	424	435	-
Stage 2	-	-	-	-	-	-	423	434	-	856	777	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	873	-	-	1401	-	-	282	300	903	279	300	443
Mov Cap-2 Maneuver	-	-	-	-	-	-	282	300	-	279	300	-
Stage 1	-	-	-	-	-	-	859	777	-	424	431	-
Stage 2	-	-	-	-	-	-	415	430	-	849	777	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0	0.1	18.4	18
HCM LOS			C	C

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	288	873	-	-	1401	-	-	287
HCM Lane V/C Ratio	0.068	-	-	-	0.006	-	-	0.038
HCM Control Delay (s)	18.4	0	-	-	7.6	0	-	18
HCM Lane LOS	C	A	-	-	A	A	-	C
HCM 95th %tile Q(veh)	0.2	0	-	-	0	-	-	0.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	284	386	57	42	267	8	139	105	182	12	14	59
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1696	1696	1696	1696	1696	1900	1727	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	309	420	62	46	290	9	151	114	198	13	15	64
Adj No. of Lanes	1	1	1	1	1	0	1	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	12	12	12	12	12	12	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	343	660	561	216	508	16	200	195	339	48	47	113
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.21	0.39	0.39	0.13	0.31	0.31	0.12	0.34	0.34	0.18	0.18	0.18
Ln Grp Delay, s/veh	55.8	27.0	18.0	35.2	0.0	30.5	44.5	0.0	25.3	34.1	0.0	0.0
Ln Grp LOS	E	C	B	D		C	D		C	C		
Approach Vol, veh/h		791			345			463			92	
Approach Delay, s/veh		37.5			31.1			31.6			34.1	
Approach LOS		D			C			C			C	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2	4	3	6	5	7	8
Case No		4.0	3.0	2.0	8.4	2.0	2.0	4.0
Phs Duration (G+Y+Rc), s		34.9	39.0	16.1	20.0	14.9	23.1	31.9
Change Period (Y+Rc), s		4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s		36.0	35.0	7.0	16.0	16.0	22.0	20.0
Max Allow Headway (MAH), s		4.2	4.1	4.0	4.4	4.2	4.1	4.0
Max Q Clear (g_c+I1), s		16.8	20.1	4.3	17.3	10.0	18.8	15.4
Green Ext Time (g_e), s		1.7	1.6	0.3	0.0	1.0	0.4	0.5
Prob of Phs Call (p_c)		1.00	1.00	0.68	1.00	1.00	1.00	1.00
Prob of Max Out (p_x)		0.00	0.00	1.00	1.00	0.48	1.00	0.00

Left-Turn Movement Data								
Assigned Mvmt				3	1	5	7	
Mvmt Sat Flow, veh/h				1616	14	1645	1616	

Through Movement Data								
Assigned Mvmt		2	4		6			8
Mvmt Sat Flow, veh/h		568	1696		264			1637

Right-Turn Movement Data								
Assigned Mvmt		12	14		16			18
Mvmt Sat Flow, veh/h		986	1442		637			51

Left Lane Group Data								
Assigned Mvmt	0	0	0	3	1	5	7	0
Lane Assignment				(Prot)	L+T+R	(Prot)	(Prot)	
Lanes in Grp	0	0	0	1	1	1	1	0

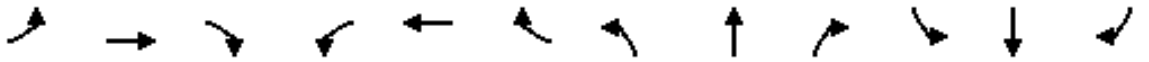
Grp Vol (v), veh/h	0	0	0	46	92	151	309	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1616	916	1645	1616	0
Q Serve Time (g_s), s	0.0	0.0	0.0	2.3	0.4	8.0	16.8	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	2.3	15.3	8.0	16.8	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	1084	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	16.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	8.5	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	4.7	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.00	0.00	1.00	0.14	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	0	0	216	209	200	343	0
V/C Ratio (X)	0.00	0.00	0.00	0.21	0.44	0.75	0.90	0.00
Avail Cap (c_a), veh/h	0	0	0	216	209	292	395	0
Upstream Filter (I)	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	34.7	32.6	38.2	34.5	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.5	1.5	6.3	21.2	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	35.2	34.1	44.5	55.8	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	1.0	2.0	3.6	7.5	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.1	0.4	2.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	1.1	2.1	4.0	9.5	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.29	0.03	0.66	3.17	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	6	0	0	8
Lane Assignment			T					
Lanes in Grp	0	0	1	0	0	0	0	0
Grp Vol (v), veh/h	0	0	420	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	1696	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	18.1	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	18.1	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	660	0	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.64	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	660	0	0	0	0	0
Upstream Filter (I)	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	22.3	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	27.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	8.4	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	9.3	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	14	0	16	0	0	18
Lane Assignment		T+R	R					T+R
Lanes in Grp	0	1	1	0	0	0	0	1
Grp Vol (v), veh/h	0	312	62	0	0	0	0	299
Grp Sat Flow (s), veh/h/ln	0	1553	1442	0	0	0	0	1687
Q Serve Time (g_s), s	0.0	14.8	2.5	0.0	0.0	0.0	0.0	13.4
Cycle Q Clear Time (g_c), s	0.0	14.8	2.5	0.0	0.0	0.0	0.0	13.4
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.63	1.00	0.00	0.70	0.00	0.00	0.03
Lane Grp Cap (c), veh/h	0	534	561	0	0	0	0	524
V/C Ratio (X)	0.00	0.58	0.11	0.00	0.00	0.00	0.00	0.57
Avail Cap (c_a), veh/h	0	621	561	0	0	0	0	524
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	24.2	17.6	0.0	0.0	0.0	0.0	26.0
Incr Delay (d2), s/veh	0.0	1.0	0.4	0.0	0.0	0.0	0.0	4.5
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	25.3	18.0	0.0	0.0	0.0	0.0	30.5
1st-Term Q (Q1), veh/ln	0.0	6.3	1.0	0.0	0.0	0.0	0.0	6.2
2nd-Term Q (Q2), veh/ln	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.6
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	6.5	1.0	0.0	0.0	0.0	0.0	6.9
%ile Storage Ratio (RQ%)	0.00	0.01	0.36	0.00	0.00	0.00	0.00	0.10
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	34.4
HCM 2010 LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	284	386	57	42	267	8	139	105	182	12	14	59
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1696	1696	1696	1696	1696	1900	1727	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	309	420	62	46	290	9	151	114	198	13	15	64
Adj No. of Lanes	1	1	1	1	1	0	1	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	12	12	12	12	12	12	10	10	10	10	10	10
Cap, veh/h	343	660	561	216	508	16	200	195	339	48	47	113
Arrive On Green	0.21	0.39	0.39	0.13	0.31	0.31	0.12	0.34	0.34	0.18	0.18	0.18
Sat Flow, veh/h	1616	1696	1442	1616	1637	51	1645	568	986	14	264	637
Grp Volume(v), veh/h	309	420	62	46	0	299	151	0	312	92	0	0
Grp Sat Flow(s),veh/h/ln	1616	1696	1442	1616	0	1687	1645	0	1553	916	0	0
Q Serve(g_s), s	16.8	18.1	2.5	2.3	0.0	13.4	8.0	0.0	14.8	0.4	0.0	0.0
Cycle Q Clear(g_c), s	16.8	18.1	2.5	2.3	0.0	13.4	8.0	0.0	14.8	15.3	0.0	0.0
Prop In Lane	1.00		1.00	1.00		0.03	1.00		0.63	0.14		0.70
Lane Grp Cap(c), veh/h	343	660	561	216	0	524	200	0	534	209	0	0
V/C Ratio(X)	0.90	0.64	0.11	0.21	0.00	0.57	0.75	0.00	0.58	0.44	0.00	0.00
Avail Cap(c_a), veh/h	395	660	561	216	0	524	292	0	621	209	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	34.5	22.3	17.6	34.7	0.0	26.0	38.2	0.0	24.2	32.6	0.0	0.0
Incr Delay (d2), s/veh	21.2	4.6	0.4	0.5	0.0	4.5	6.3	0.0	1.0	1.5	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	9.5	9.3	1.0	1.1	0.0	6.9	4.0	0.0	6.5	2.1	0.0	0.0
LnGrp Delay(d),s/veh	55.8	27.0	18.0	35.2	0.0	30.5	44.5	0.0	25.3	34.1	0.0	0.0
LnGrp LOS	E	C	B	D		C	D		C	C		
Approach Vol, veh/h		791			345			463			92	
Approach Delay, s/veh		37.5			31.1			31.6			34.1	
Approach LOS		D			C			C			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s		34.9	16.1	39.0	14.9	20.0	23.1	31.9
Change Period (Y+Rc), s		4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s		36.0	7.0	35.0	16.0	16.0	22.0	20.0
Max Q Clear Time (g_c+I1), s		16.8	4.3	20.1	10.0	17.3	18.8	15.4
Green Ext Time (p_c), s		1.7	0.3	1.6	1.0	0.0	0.4	0.5

Intersection Summary	
HCM 2010 Ctrl Delay	34.4
HCM 2010 LOS	C

Intersection	
Int Delay, s/veh	16.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	208	274	50	7	178	25	12	97	48	5	77	52
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	136	-	-	135	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	30	30	30	30	30	30	14	14	14	14	14	14
Mvmt Flow	226	298	54	8	193	27	13	105	52	5	84	57

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	221	0	0	352	0	0	1069	1013	325	1078	1026	207
Stage 1	-	-	-	-	-	-	777	777	-	222	222	-
Stage 2	-	-	-	-	-	-	292	236	-	856	804	-
Critical Hdwy	4.4	-	-	4.4	-	-	7.24	6.64	6.34	7.24	6.64	6.34
Critical Hdwy Stg 1	-	-	-	-	-	-	6.24	5.64	-	6.24	5.64	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.24	5.64	-	6.24	5.64	-
Follow-up Hdwy	2.47	-	-	2.47	-	-	3.626	4.126	3.426	3.626	4.126	3.426
Pot Cap-1 Maneuver	1199	-	-	1067	-	-	189	228	689	186	224	804
Stage 1	-	-	-	-	-	-	372	390	-	754	698	-
Stage 2	-	-	-	-	-	-	691	688	-	336	379	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1199	-	-	1067	-	-	96	184	689	81	180	804
Mov Cap-2 Maneuver	-	-	-	-	-	-	96	184	-	81	180	-
Stage 1	-	-	-	-	-	-	302	316	-	612	693	-
Stage 2	-	-	-	-	-	-	561	683	-	168	308	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	3.4	0.3	64	40.1
HCM LOS			F	E

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	217	1199	-	-	1067	-	-	242
HCM Lane V/C Ratio	0.786	0.189	-	-	0.007	-	-	0.602
HCM Control Delay (s)	64	8.7	-	-	8.4	-	-	40.1
HCM Lane LOS	F	A	-	-	A	-	-	E
HCM 95th %tile Q(veh)	5.6	0.7	-	-	0	-	-	3.5

Intersection	
Int Delay, s/veh	4.1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	115	148	30	278	100	131
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	30	30	30	30	30	30
Mvmt Flow	125	161	33	302	109	142

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	286	0	572	205
Stage 1	-	-	-	-	205	-
Stage 2	-	-	-	-	367	-
Critical Hdwy	-	-	4.4	-	6.7	6.5
Critical Hdwy Stg 1	-	-	-	-	5.7	-
Critical Hdwy Stg 2	-	-	-	-	5.7	-
Follow-up Hdwy	-	-	2.47	-	3.77	3.57
Pot Cap-1 Maneuver	-	-	1132	-	438	770
Stage 1	-	-	-	-	767	-
Stage 2	-	-	-	-	643	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1132	-	423	770
Mov Cap-2 Maneuver	-	-	-	-	423	-
Stage 1	-	-	-	-	767	-
Stage 2	-	-	-	-	620	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0.8	13.2
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	NBLn2	EBT	EBR	WBL	WBT
Capacity (veh/h)	423	770	-	-	1132	-
HCM Lane V/C Ratio	0.257	0.185	-	-	0.029	-
HCM Control Delay (s)	16.4	10.7	-	-	8.3	0
HCM Lane LOS	C	B	-	-	A	A
HCM 95th %tile Q(veh)	1	0.7	-	-	0.1	-

Intersection	
Int Delay, s/veh	1.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	4	8	12	13	4	0	37	329	59	0	205	18
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	220	-	-	238	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	20	20	20	20	20	20
Mvmt Flow	4	9	13	14	4	0	40	358	64	0	223	20

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	705	735	233	713	712	390	242	0	0	422	0	0
Stage 1	233	233	-	470	470	-	-	-	-	-	-	-
Stage 2	472	502	-	243	242	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.2	6.6	6.3	4.3	-	-	4.3	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.59	4.09	3.39	2.38	-	-	2.38	-	-
Pot Cap-1 Maneuver	341	337	787	337	348	641	1226	-	-	1047	-	-
Stage 1	752	697	-	559	547	-	-	-	-	-	-	-
Stage 2	558	529	-	743	691	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	329	326	787	317	337	641	1226	-	-	1047	-	-
Mov Cap-2 Maneuver	329	326	-	317	337	-	-	-	-	-	-	-
Stage 1	727	697	-	541	529	-	-	-	-	-	-	-
Stage 2	535	512	-	722	691	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	13.3	16.9	0.7	0
HCM LOS	B	C		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1226	-	-	462	321	1047	-	-
HCM Lane V/C Ratio	0.033	-	-	0.056	0.058	-	-	-
HCM Control Delay (s)	8	-	-	13.3	16.9	0	-	-
HCM Lane LOS	A	-	-	B	C	A	-	-
HCM 95th %tile Q(veh)	0.1	-	-	0.2	0.2	0	-	-

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	3	105	138	47	164	8	273	297	73	127	399	49
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1727	1900	1900	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	3	114	150	51	178	9	297	323	79	138	434	53
Adj No. of Lanes	0	1	0	0	1	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	41	138	179	91	233	11	804	413	100	836	522	63
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.20	0.20	0.20	0.20	0.20	0.20	0.49	0.16	0.16	0.51	0.18	0.18
Ln Grp Delay, s/veh	38.1	0.0	0.0	36.9	0.0	0.0	14.6	56.5	58.5	12.0	58.8	59.4
Ln Grp LOS	D			D			B	E	E	B	E	E
Approach Vol, veh/h		267			238			699			625	
Approach Delay, s/veh		38.1			36.9			39.3			48.7	
Approach LOS		D			D			D			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1		4	6	5		8
Case No	4.0	2.0		8.0	4.0	2.0		8.0
Phs Duration (G+Y+Rc), s	18.2	49.7		22.1	19.9	48.0		22.1
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green (Gmax), s	34.0	17.0		27.0	22.0	29.0		27.0
Max Allow Headway (MAH), s	4.1	4.1		4.2	4.1	4.1		4.2
Max Q Clear (g_c+I1), s	12.8	6.1		16.6	14.9	12.1		16.6
Green Ext Time (g_e), s	1.3	1.2		1.5	1.1	1.4		1.5
Prob of Phs Call (p_c)	1.00	0.97		1.00	1.00	1.00		1.00
Prob of Max Out (p_x)	0.00	0.05		0.10	0.28	0.00		0.10

Left-Turn Movement Data								
Assigned Mvmt		1		7		5		3
Mvmt Sat Flow, veh/h		1645		5		1645		211

Through Movement Data								
Assigned Mvmt	2			4	6			8
Mvmt Sat Flow, veh/h	2624			688	2947			1159

Right-Turn Movement Data								
Assigned Mvmt	12			14	16			18
Mvmt Sat Flow, veh/h	633			888	358			54

Left Lane Group Data								
Assigned Mvmt	0	1	0	7	0	5	0	3
Lane Assignment		(Prot)		L+T+R		(Prot)		L+T+R
Lanes in Grp	0	1	0	1	0	1	0	1

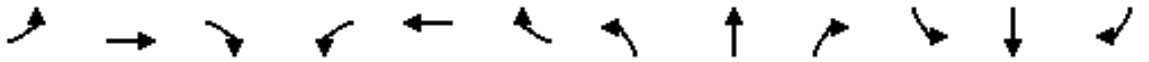
Grp Vol (v), veh/h	0	138	0	267	0	297	0	238
Grp Sat Flow (s), veh/h/ln	0	1645	0	1581	0	1645	0	1424
Q Serve Time (g_s), s	0.0	4.1	0.0	0.0	0.0	10.1	0.0	0.1
Cycle Q Clear Time (g_c), s	0.0	4.1	0.0	14.6	0.0	10.1	0.0	14.6
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	1215	0	0	0	1133
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	1726	0	0	0	1260
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	18.1	0.0	0.0	0.0	18.1
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	3.5	0.0	0.0	0.0	3.5
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Time to First Blk (g_f), s	0.0	0.0	0.0	13.3	0.0	0.0	0.0	4.6
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	13.3	0.0	0.0	0.0	4.6
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	0.01	0.00	1.00	0.00	0.21
Lane Grp Cap (c), veh/h	0	836	0	358	0	804	0	335
V/C Ratio (X)	0.00	0.17	0.00	0.74	0.00	0.37	0.00	0.71
Avail Cap (c_a), veh/h	0	836	0	513	0	804	0	483
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	11.9	0.0	34.6	0.0	14.4	0.0	34.1
Incr Delay (d2), s/veh	0.0	0.1	0.0	3.5	0.0	0.3	0.0	2.8
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	12.0	0.0	38.1	0.0	14.6	0.0	36.9
1st-Term Q (Q1), veh/ln	0.0	1.8	0.0	6.4	0.0	4.6	0.0	5.7
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.4	0.0	0.1	0.0	0.3
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.9	0.0	6.7	0.0	4.7	0.0	5.9
%ile Storage Ratio (RQ%)	0.00	0.21	0.00	0.01	0.00	0.69	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	6	0	0	8
Lane Assignment	T				T			
Lanes in Grp	1	0	0	0	1	0	0	0
Grp Vol (v), veh/h	200	0	0	0	241	0	0	0
Grp Sat Flow (s), veh/h/ln	1641	0	0	0	1641	0	0	0
Q Serve Time (g_s), s	10.5	0.0	0.0	0.0	12.7	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	10.5	0.0	0.0	0.0	12.7	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	258	0	0	0	290	0	0	0
V/C Ratio (X)	0.78	0.00	0.00	0.00	0.83	0.00	0.00	0.00
Avail Cap (c_a), veh/h	620	0	0	0	401	0	0	0
Upstream Filter (I)	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	36.4	0.0	0.0	0.0	35.7	0.0	0.0	0.0
Incr Delay (d2), s/veh	20.1	0.0	0.0	0.0	23.1	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	56.5	0.0	0.0	0.0	58.8	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	4.8	0.0	0.0	0.0	5.7	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	1.4	0.0	0.0	0.0	1.9	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	6.2	0.0	0.0	0.0	7.6	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.05	0.00	0.00	0.00	0.19	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	0	14	16	0	0	18
Lane Assignment	T+R				T+R			
Lanes in Grp	1	0	0	0	1	0	0	0
Grp Vol (v), veh/h	202	0	0	0	246	0	0	0
Grp Sat Flow (s), veh/h/ln	1616	0	0	0	1664	0	0	0
Q Serve Time (g_s), s	10.8	0.0	0.0	0.0	12.9	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	10.8	0.0	0.0	0.0	12.9	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.39	0.00	0.00	0.56	0.22	0.00	0.00	0.04
Lane Grp Cap (c), veh/h	254	0	0	0	295	0	0	0
V/C Ratio (X)	0.79	0.00	0.00	0.00	0.84	0.00	0.00	0.00
Avail Cap (c_a), veh/h	610	0	0	0	407	0	0	0
Upstream Filter (I)	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	36.5	0.0	0.0	0.0	35.8	0.0	0.0	0.0
Incr Delay (d2), s/veh	22.0	0.0	0.0	0.0	23.6	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	58.5	0.0	0.0	0.0	59.4	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	4.8	0.0	0.0	0.0	5.9	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	1.6	0.0	0.0	0.0	1.9	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	6.4	0.0	0.0	0.0	7.8	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.06	0.00	0.00	0.00	0.19	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	42.0
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	3	105	138	47	164	8	273	297	73	127	399	49
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1727	1900	1900	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	3	114	150	51	178	9	297	323	79	138	434	53
Adj No. of Lanes	0	1	0	0	1	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	41	138	179	91	233	11	804	413	100	836	522	63
Arrive On Green	0.20	0.20	0.20	0.20	0.20	0.20	0.49	0.16	0.16	0.51	0.18	0.18
Sat Flow, veh/h	5	688	888	211	1159	54	1645	2624	633	1645	2947	358
Grp Volume(v), veh/h	267	0	0	238	0	0	297	200	202	138	241	246
Grp Sat Flow(s),veh/h/ln	1581	0	0	1424	0	0	1645	1641	1616	1645	1641	1664
Q Serve(g_s), s	0.0	0.0	0.0	0.1	0.0	0.0	10.1	10.5	10.8	4.1	12.7	12.9
Cycle Q Clear(g_c), s	14.6	0.0	0.0	14.6	0.0	0.0	10.1	10.5	10.8	4.1	12.7	12.9
Prop In Lane	0.01		0.56	0.21		0.04	1.00		0.39	1.00		0.22
Lane Grp Cap(c), veh/h	358	0	0	335	0	0	804	258	254	836	290	295
V/C Ratio(X)	0.74	0.00	0.00	0.71	0.00	0.00	0.37	0.78	0.79	0.17	0.83	0.84
Avail Cap(c_a), veh/h	513	0	0	483	0	0	804	620	610	836	401	407
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	34.6	0.0	0.0	34.1	0.0	0.0	14.4	36.4	36.5	11.9	35.7	35.8
Incr Delay (d2), s/veh	3.5	0.0	0.0	2.8	0.0	0.0	0.3	20.1	22.0	0.1	23.1	23.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.7	0.0	0.0	5.9	0.0	0.0	4.7	6.2	6.4	1.9	7.6	7.8
LnGrp Delay(d),s/veh	38.1	0.0	0.0	36.9	0.0	0.0	14.6	56.5	58.5	12.0	58.8	59.4
LnGrp LOS	D			D			B	E	E	B	E	E
Approach Vol, veh/h		267			238			699			625	
Approach Delay, s/veh		38.1			36.9			39.3			48.7	
Approach LOS		D			D			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	49.7	18.2		22.1	48.0	19.9		22.1
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	45.7	34.0		27.0	29.0	22.0		27.0
Max Q Clear Time (g_c+I1), s	16.6	12.8		16.6	12.1	14.9		16.6
Green Ext Time (p_c), s	1.2	1.3		1.5	1.4	1.1		1.5

Intersection Summary	
HCM 2010 Ctrl Delay	42.0
HCM 2010 LOS	D

Intersection	
Int Delay, s/veh	3.1

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	8	105	230	476	357	15
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	20	331	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	9	114	250	517	388	16

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1413	396	404	0	-	0
Stage 1	396	-	-	-	-	-
Stage 2	1017	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	146	636	1113	-	-	-
Stage 1	663	-	-	-	-	-
Stage 2	337	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	113	636	1113	-	-	-
Mov Cap-2 Maneuver	113	-	-	-	-	-
Stage 1	663	-	-	-	-	-
Stage 2	261	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	13.9	3	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	1113	-	113	636	-	-
HCM Lane V/C Ratio	0.225	-	0.077	0.179	-	-
HCM Control Delay (s)	9.2	-	39.5	11.9	-	-
HCM Lane LOS	A	-	E	B	-	-
HCM 95th %tile Q(veh)	0.9	-	0.2	0.7	-	-

Intersection	
Int Delay, s/veh	8.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	0	132	42	9	40	0	282	0	111	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	0	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	30	30	30	30	30	30	30	30	30	30	30	30
Mvmt Flow	0	143	46	10	43	0	307	0	121	0	0	0

Major/Minor	Major1			Major2			Minor1		
Conflicting Flow All	43	0	0	189	0	0	229	229	166
Stage 1	-	-	-	-	-	-	166	166	-
Stage 2	-	-	-	-	-	-	63	63	-
Critical Hdwy	4.4	-	-	4.4	-	-	6.7	6.8	6.5
Critical Hdwy Stg 1	-	-	-	-	-	-	5.7	5.8	-
Critical Hdwy Stg 2	-	-	-	-	-	-	5.7	5.8	-
Follow-up Hdwy	2.47	-	-	2.47	-	-	3.77	4.27	3.57
Pot Cap-1 Maneuver	1403	-	-	1233	-	-	701	625	810
Stage 1	-	-	-	-	-	-	800	711	-
Stage 2	-	-	-	-	-	-	893	791	-
Platoon blocked, %		-	-		-	-			
Mov Cap-1 Maneuver	1403	-	-	1233	-	-	695	0	810
Mov Cap-2 Maneuver	-	-	-	-	-	-	695	0	-
Stage 1	-	-	-	-	-	-	800	0	-
Stage 2	-	-	-	-	-	-	886	0	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.5	13.1
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	NBLn2	EBL	EBT	EBR	WBL	WBT	WBR
Capacity (veh/h)	695	810	1403	-	-	1233	-	-
HCM Lane V/C Ratio	0.441	0.149	-	-	-	0.008	-	-
HCM Control Delay (s)	14.2	10.2	0	-	-	7.9	0	-
HCM Lane LOS	B	B	A	-	-	A	A	-
HCM 95th %tile Q(veh)	2.3	0.5	0	-	-	0	-	-

PM Existing

Intersection	
Int Delay, s/veh	4.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	31	70	5	29	38	3	9	188	183	11	38	17
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	34	76	5	32	41	3	10	204	199	12	41	18

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	420	497	51	438	407	304	60	0	0	403	0	0
Stage 1	74	74	-	323	323	-	-	-	-	-	-	-
Stage 2	346	423	-	115	84	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.2	6.6	6.3	4.2	-	-	4.2	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.59	4.09	3.39	2.29	-	-	2.29	-	-
Pot Cap-1 Maneuver	530	463	995	515	521	717	1494	-	-	1114	-	-
Stage 1	916	818	-	672	636	-	-	-	-	-	-	-
Stage 2	653	574	-	871	810	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	488	454	995	440	511	717	1494	-	-	1114	-	-
Mov Cap-2 Maneuver	488	454	-	440	511	-	-	-	-	-	-	-
Stage 1	908	809	-	666	630	-	-	-	-	-	-	-
Stage 2	602	569	-	776	801	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	15	13.8	0.2	1.4
HCM LOS	C	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1494	-	-	476	485	1114	-	-
HCM Lane V/C Ratio	0.007	-	-	0.242	0.157	0.011	-	-
HCM Control Delay (s)	7.4	0	-	15	13.8	8.3	0	-
HCM Lane LOS	A	A	-	C	B	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.9	0.6	0	-	-

Intersection	
Intersection Delay, s/veh	8.8
Intersection LOS	A

Movement	EBU	EBL	EBT	WBU	WBT	WBR	SBU	SBL	SBR
Vol, veh/h	0	83	100	0	73	83	0	65	76
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	90	109	0	79	90	0	71	83
Number of Lanes	0	1	1	0	1	1	0	1	1

Approach	EB	WB	SB
Opposing Approach	WB	EB	
Opposing Lanes	2	2	0
Conflicting Approach Left	SB		WB
Conflicting Lanes Left	2	0	2
Conflicting Approach Right		SB	EB
Conflicting Lanes Right	0	2	2
HCM Control Delay	9.2	8.3	8.8
HCM LOS	A	A	A

Lane	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1	SBLn2
Vol Left, %	100%	0%	0%	0%	100%	0%
Vol Thru, %	0%	100%	100%	0%	0%	0%
Vol Right, %	0%	0%	0%	100%	0%	100%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	83	100	73	83	65	76
LT Vol	83	0	0	0	65	0
Through Vol	0	100	73	0	0	0
RT Vol	0	0	0	83	0	76
Lane Flow Rate	90	109	79	90	71	83
Geometry Grp	7	7	7	7	7	7
Degree of Util (X)	0.144	0.158	0.117	0.115	0.119	0.112
Departure Headway (Hd)	5.742	5.239	5.29	4.586	6.073	4.868
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	624	685	678	780	590	735
Service Time	3.476	2.973	3.024	2.319	3.81	2.605
HCM Lane V/C Ratio	0.144	0.159	0.117	0.115	0.12	0.113
HCM Control Delay	9.4	9	8.7	7.9	9.6	8.2
HCM Lane LOS	A	A	A	A	A	A
HCM 95th-tile Q	0.5	0.6	0.4	0.4	0.4	0.4

Intersection	
Intersection Delay, s/veh	7.5
Intersection LOS	A

Movement	EBU	EBL	EBR	NBU	NBL	NBT	SBU	SBT	SBR	SEU	SEL	SER
Vol, veh/h	0	0	0	0	0	0	0	32	13	0	0	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	0	0	0	0	0	0	35	14	0	0	0
Number of Lanes	0	0	0	0	1	0	0	0	1	0	0	1

Approach	NB	SB	SE
Opposing Approach	SB	NB	
Opposing Lanes	2	1	0
Conflicting Approach Left	SE		SB
Conflicting Lanes Left	1	0	2
Conflicting Approach Right		SE	NB
Conflicting Lanes Right	0	1	1
HCM Control Delay	0	7.5	0
HCM LOS	-	A	-

Lane	NBLn1	SELn1	SBLn1	SBLn2
Vol Left, %	0%	0%	0%	0%
Vol Thru, %	100%	100%	71%	100%
Vol Right, %	0%	0%	29%	0%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	0	0	45	0
LT Vol	0	0	0	0
Through Vol	0	0	32	0
RT Vol	0	0	13	0
Lane Flow Rate	0	0	49	0
Geometry Grp	5	2	7	7
Degree of Util (X)	0	0	0.061	0
Departure Headway (Hd)	4.255	4.155	4.468	4.67
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	0	0	807	0
Service Time	2.29	2.19	2.168	2.37
HCM Lane V/C Ratio	0	0	0.061	0
HCM Control Delay	7.3	7.2	7.5	7.4
HCM Lane LOS	N	N	A	N
HCM 95th-tile Q	0	0	0.2	0

Intersection	
Int Delay, s/veh	3.8

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	93	234	2	5	5	25	0	0	0	12	28	35
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	116	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	29	29	29	29	29	29	10	10	10	10	10	10
Mvmt Flow	101	254	2	5	5	27	0	0	0	13	30	38

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	33	0	0	257	0	0	522	501	255	488	489	19
Stage 1	-	-	-	-	-	-	458	458	-	30	30	-
Stage 2	-	-	-	-	-	-	64	43	-	458	459	-
Critical Hdwy	4.39	-	-	4.39	-	-	7.2	6.6	6.3	7.2	6.6	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Follow-up Hdwy	2.461	-	-	2.461	-	-	3.59	4.09	3.39	3.59	4.09	3.39
Pot Cap-1 Maneuver	1421	-	-	1166	-	-	453	461	765	477	468	1036
Stage 1	-	-	-	-	-	-	568	554	-	967	854	-
Stage 2	-	-	-	-	-	-	927	844	-	568	553	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1421	-	-	1166	-	-	390	427	765	450	433	1036
Mov Cap-2 Maneuver	-	-	-	-	-	-	390	427	-	450	433	-
Stage 1	-	-	-	-	-	-	528	515	-	898	851	-
Stage 2	-	-	-	-	-	-	858	841	-	528	514	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	2.2	1.2	0	12
HCM LOS			A	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	-	1421	-	-	1166	-	-	599
HCM Lane V/C Ratio	-	0.071	-	-	0.005	-	-	0.136
HCM Control Delay (s)	0	7.7	-	-	8.1	0	-	12
HCM Lane LOS	A	A	-	-	A	A	-	B
HCM 95th %tile Q(veh)	-	0.2	-	-	0	-	-	0.5

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	0	3	0	0	40	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	29	29	10	10	10	10
Mvmt Flow	0	3	0	0	43	0

Major/Minor	Major1		Minor2	
Conflicting Flow All	0	0	3	0
Stage 1	-	-	0	-
Stage 2	-	-	3	-
Critical Hdwy	-	-	7.2	-
Critical Hdwy Stg 1	-	-	-	-
Critical Hdwy Stg 2	-	-	6.2	-
Follow-up Hdwy	-	-	3.59	-
Pot Cap-1 Maneuver	-	-	998	-
Stage 1	-	-	-	-
Stage 2	-	-	999	-
Platoon blocked, %		-		
Mov Cap-1 Maneuver	-	-	998	-
Mov Cap-2 Maneuver	-	-	998	-
Stage 1	-	-	-	-
Stage 2	-	-	999	-

Approach	EB	SB
HCM Control Delay, s	0	
HCM LOS		-

Minor Lane/Major Mvmt	EBL	EBT	SBLn1
Capacity (veh/h)	-	-	-
HCM Lane V/C Ratio	-	-	-
HCM Control Delay (s)	0	-	-
HCM Lane LOS	A	-	-
HCM 95th %tile Q(veh)	-	-	-

Intersection	
Int Delay, s/veh	4.2

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	206	206	63	47	16	57
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	500	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	29	29	29	29	10	10
Mvmt Flow	224	224	68	51	17	62

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	120	0	-	0	766	94
Stage 1	-	-	-	-	94	-
Stage 2	-	-	-	-	672	-
Critical Hdwy	4.39	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.461	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1316	-	-	-	360	941
Stage 1	-	-	-	-	910	-
Stage 2	-	-	-	-	493	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1316	-	-	-	299	941
Mov Cap-2 Maneuver	-	-	-	-	299	-
Stage 1	-	-	-	-	910	-
Stage 2	-	-	-	-	409	-

Approach	EB	WB	SB
HCM Control Delay, s	4.1	0	11.4
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1316	-	-	-	640
HCM Lane V/C Ratio	0.17	-	-	-	0.124
HCM Control Delay (s)	8.3	-	-	-	11.4
HCM Lane LOS	A	-	-	-	B
HCM 95th %tile Q(veh)	0.6	-	-	-	0.4

Intersection	
Int Delay, s/veh	0.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NWL	NWR
Vol, veh/h	0	261	33	1	54	0	9	7	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	None	-	-
Storage Length	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	0	-	0	-
Grade, %	-	0	-	-	0	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	29	29	29	29	29	29	28	28	10	10
Mvmt Flow	0	284	36	1	59	0	10	8	0	0

Major/Minor	Major1			Major2			Minor2			
Conflicting Flow All	59	0	0	320	0	0	363	59		
Stage 1	-	-	-	-	-	-	61	-		
Stage 2	-	-	-	-	-	-	302	-		
Critical Hdwy	4.39	-	-	4.39	-	-	6.68	6.48		
Critical Hdwy Stg 1	-	-	-	-	-	-	5.68	-		
Critical Hdwy Stg 2	-	-	-	-	-	-	5.68	-		
Follow-up Hdwy	2.461	-	-	2.461	-	-	3.752	3.552		
Pot Cap-1 Maneuver	1389	-	-	1102	-	-	588	938		
Stage 1	-	-	-	-	-	-	899	-		
Stage 2	-	-	-	-	-	-	694	-		
Platoon blocked, %		-	-		-	-				
Mov Cap-1 Maneuver	1389	-	-	1102	-	-	587	938		
Mov Cap-2 Maneuver	-	-	-	-	-	-	587	-		
Stage 1	-	-	-	-	-	-	898	-		
Stage 2	-	-	-	-	-	-	694	-		

Approach	EB	WB	SB
HCM Control Delay, s	0	0.2	8.9
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	1389	-	-	1102	-	-	938
HCM Lane V/C Ratio	-	-	-	0.001	-	-	0.019
HCM Control Delay (s)	0	-	-	8.3	0	-	8.9
HCM Lane LOS	A	-	-	A	A	-	A
HCM 95th %tile Q(veh)	0	-	-	0	-	-	0.1

Intersection	
Int Delay, s/veh	0.8

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBR	SEL	SER
Vol, veh/h	5	261	0	0	39	18	20	4	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	None	-	-
Storage Length	-	-	-	-	-	0	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	0	-	0	-
Grade, %	-	0	-	-	0	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	29	29	29	29	29	29	28	28	10	10
Mvmt Flow	5	284	0	0	42	20	22	4	0	0

Major/Minor	Major1			Major2			Minor1			
Conflicting Flow All	42	0	0	284	0	0	337	284		
Stage 1	-	-	-	-	-	-	295	-		
Stage 2	-	-	-	-	-	-	42	-		
Critical Hdwy	4.39	-	-	4.39	-	-	6.68	6.48		
Critical Hdwy Stg 1	-	-	-	-	-	-	5.68	-		
Critical Hdwy Stg 2	-	-	-	-	-	-	5.68	-		
Follow-up Hdwy	2.461	-	-	2.461	-	-	3.752	3.552		
Pot Cap-1 Maneuver	1410	-	-	1138	-	-	609	697		
Stage 1	-	-	-	-	-	-	700	-		
Stage 2	-	-	-	-	-	-	918	-		
Platoon blocked, %		-	-		-	-				
Mov Cap-1 Maneuver	1410	-	-	1138	-	-	607	697		
Mov Cap-2 Maneuver	-	-	-	-	-	-	607	-		
Stage 1	-	-	-	-	-	-	697	-		
Stage 2	-	-	-	-	-	-	918	-		

Approach	EB	WB	NB
HCM Control Delay, s	0.1	0	10.4
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR
Capacity (veh/h)	697	1410	-	-	1138	-	-
HCM Lane V/C Ratio	0.037	0.004	-	-	-	-	-
HCM Control Delay (s)	10.4	7.6	0	-	0	-	-
HCM Lane LOS	B	A	A	-	A	-	-
HCM 95th %tile Q(veh)	0.1	0	-	-	0	-	-

Intersection	
Int Delay, s/veh	2.9

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	3	153	73	299	399	10
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	0	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	19	19	19	19
Mvmt Flow	3	166	79	325	434	11

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	923	439	445	0	-	0
Stage 1	439	-	-	-	-	-
Stage 2	484	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.29	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.371	-	-	-
Pot Cap-1 Maneuver	290	601	1031	-	-	-
Stage 1	633	-	-	-	-	-
Stage 2	603	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	268	601	1031	-	-	-
Mov Cap-2 Maneuver	268	-	-	-	-	-
Stage 1	633	-	-	-	-	-
Stage 2	557	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	13.6	1.7	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1031	-	587	-	-
HCM Lane V/C Ratio	0.077	-	0.289	-	-
HCM Control Delay (s)	8.8	-	13.6	-	-
HCM Lane LOS	A	-	B	-	-
HCM 95th %tile Q(veh)	0.2	-	1.2	-	-

Intersection	
Intersection Delay, s/veh	57.3
Intersection LOS	F

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	42	506	89	0	94	132	46	0	34	241	151
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	46	550	97	0	102	143	50	0	37	262	164
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	1	1	2
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	2	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	2	1
HCM Control Delay	71.2	30.2	71
HCM LOS	F	D	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1	SBLn2
Vol Left, %	8%	7%	35%	44%	0%
Vol Thru, %	57%	79%	49%	56%	0%
Vol Right, %	35%	14%	17%	0%	100%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	426	637	272	201	14
LT Vol	34	42	94	89	0
Through Vol	241	506	132	112	0
RT Vol	151	89	46	0	14
Lane Flow Rate	463	692	296	218	15
Geometry Grp	5	2	2	7	7
Degree of Util (X)	1	1	0.709	0.573	0.036
Departure Headway (Hd)	7.939	8.112	8.633	9.438	8.516
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	458	457	420	382	421
Service Time	6.01	6.036	6.661	7.178	6.257
HCM Lane V/C Ratio	1.011	1.514	0.705	0.571	0.036
HCM Control Delay	71	71.2	30.2	24.2	11.6
HCM Lane LOS	F	F	D	C	B
HCM 95th-tile Q	13	13	5.4	3.4	0.1

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	89	112	14
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10
Mvmt Flow	0	97	122	15
Number of Lanes	0	0	1	1

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	1
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	23.4
HCM LOS	C

Lane

Intersection	
Intersection Delay, s/veh	26.1
Intersection LOS	D

Movement	EBU	EBL	EBR	NBU	NBL	NBT	SBU	SBT	SBR
Vol, veh/h	0	208	368	0	185	370	0	221	34
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	22	22	10	25	25	10	25	25
Mvmt Flow	0	226	400	0	201	402	0	240	37
Number of Lanes	0	1	1	0	1	1	0	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	1	2
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	1	2	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	2	0	2
HCM Control Delay	24.5	30.5	20.1
HCM LOS	C	D	C

Lane	NBLn1	NBLn2	EBLn1	EBLn2	SBLn1
Vol Left, %	100%	0%	100%	0%	0%
Vol Thru, %	0%	100%	0%	0%	87%
Vol Right, %	0%	0%	0%	100%	13%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	185	370	208	368	255
LT Vol	185	0	208	0	0
Through Vol	0	370	0	0	221
RT Vol	0	0	0	368	34
Lane Flow Rate	201	402	226	400	277
Geometry Grp	7	7	7	7	4
Degree of Util (X)	0.444	0.83	0.503	0.755	0.572
Departure Headway (Hd)	7.945	7.434	8.017	6.793	7.426
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	452	487	448	532	485
Service Time	5.727	5.215	5.795	4.57	5.501
HCM Lane V/C Ratio	0.445	0.825	0.504	0.752	0.571
HCM Control Delay	17	37.3	18.7	27.7	20.1
HCM Lane LOS	C	E	C	D	C
HCM 95th-tile Q	2.2	8.1	2.8	6.6	3.5

Intersection	
Intersection Delay, s/veh	66.5
Intersection LOS	F

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Vol, veh/h	0	33	397	4	0	82	153	33	0	4	340	254	0	131	184	13
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	22	22	22	10	22	22	22
Mvmt Flow	0	36	432	4	0	89	166	36	0	4	370	276	0	142	200	14
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	75.7	38.2	75.5	61.2
HCM LOS	F	E	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	1%	8%	31%	40%
Vol Thru, %	57%	91%	57%	56%
Vol Right, %	42%	1%	12%	4%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	598	434	268	328
LT Vol	4	33	82	131
Through Vol	340	397	153	184
RT Vol	254	4	33	13
Lane Flow Rate	650	472	291	357
Geometry Grp	1	1	1	1
Degree of Util (X)	1	1	0.77	0.929
Departure Headway (Hd)	8.874	8.933	9.521	9.38
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	410	406	382	389
Service Time	6.965	7.024	7.57	7.43
HCM Lane V/C Ratio	1.585	1.163	0.762	0.918
HCM Control Delay	75.5	75.7	38.2	61.2
HCM Lane LOS	F	F	E	F
HCM 95th-tile Q	12.3	12.2	6.3	10

Intersection	
Int Delay, s/veh	5.8

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	79	17	756	429	56	220
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	22	22	22	22
Mvmt Flow	86	18	822	466	61	239

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1416	1055	0	0	1288	0
Stage 1	1055	-	-	-	-	-
Stage 2	361	-	-	-	-	-
Critical Hdwy	6.5	6.3	-	-	4.32	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	-	-	2.398	-
Pot Cap-1 Maneuver	145	264	-	-	477	-
Stage 1	323	-	-	-	-	-
Stage 2	688	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	124	264	-	-	477	-
Mov Cap-2 Maneuver	124	-	-	-	-	-
Stage 1	323	-	-	-	-	-
Stage 2	587	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	86.7	0	2.8
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	137	477	-
HCM Lane V/C Ratio	-	-	0.762	0.128	-
HCM Control Delay (s)	-	-	86.7	13.6	0
HCM Lane LOS	-	-	F	B	A
HCM 95th %tile Q(veh)	-	-	4.5	0.4	-

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	655	711	8	16	240	1	30	60	45	4	32	305
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	712	773	9	17	261	1	33	65	49	4	35	332
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	788	1250	15	407	1261	5	80	163	123	216	25	240
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.73	0.73	0.73	0.73	0.73	0.73	0.18	0.18	0.18	0.18	0.18	0.18
Ln Grp Delay, s/veh	28.2	0.0	6.8	11.1	0.0	3.9	60.0	0.0	36.9	35.5	0.0	232.4
Ln Grp LOS	C		A	B		A	E		D	D		F
Approach Vol, veh/h		1494			279			147			371	
Approach Delay, s/veh		17.0			4.3			42.1			230.3	
Approach LOS		B			A			D			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Case No		6.0		6.0		6.0		6.0
Phs Duration (G+Y+Rc), s		20.0		70.0		20.0		70.0
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green (Gmax), s		16.0		66.0		16.0		66.0
Max Allow Headway (MAH), s		4.3		4.4		4.3		4.4
Max Q Clear (g_c+I1), s		18.0		68.0		18.0		23.1
Green Ext Time (g_e), s		0.0		0.0		0.0		12.7
Prob of Phs Call (p_c)		1.00		1.00		1.00		1.00
Prob of Max Out (p_x)		1.00		1.00		1.00		0.11

Left-Turn Movement Data								
Assigned Mvmt		5		7		1		3
Mvmt Sat Flow, veh/h		937		1032		1181		638

Through Movement Data								
Assigned Mvmt		2		4		6		8
Mvmt Sat Flow, veh/h		915		1704		142		1720

Right-Turn Movement Data								
Assigned Mvmt		12		14		16		18
Mvmt Sat Flow, veh/h		690		20		1347		7

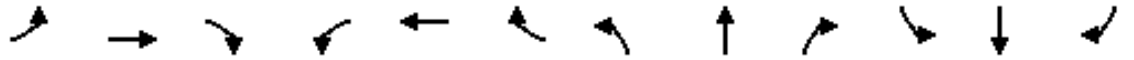
Left Lane Group Data								
Assigned Mvmt	0	5	0	7	0	1	0	3
Lane Assignment								
Lanes in Grp	0	1	0	1	0	1	0	1

Grp Vol (v), veh/h	0	33	0	712	0	4	0	17
Grp Sat Flow (s), veh/h/ln	0	937	0	1032	0	1181	0	638
Q Serve Time (g_s), s	0.0	0.0	0.0	61.7	0.0	0.3	0.0	1.2
Cycle Q Clear Time (g_c), s	0.0	16.0	0.0	66.0	0.0	5.9	0.0	21.1
Perm LT Sat Flow (s_l), veh/h/ln	0	937	0	1032	0	1181	0	638
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	16.0	0.0	66.0	0.0	16.0	0.0	66.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	61.7	0.0	10.3	0.0	46.1
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	61.7	0.0	0.3	0.0	1.2
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	80	0	788	0	216	0	407
V/C Ratio (X)	0.00	0.41	0.00	0.90	0.00	0.02	0.00	0.04
Avail Cap (c_a), veh/h	0	80	0	788	0	216	0	407
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	45.0	0.0	14.3	0.0	35.4	0.0	11.0
Incr Delay (d2), s/veh	0.0	15.0	0.0	13.9	0.0	0.2	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	60.0	0.0	28.2	0.0	35.5	0.0	11.1
1st-Term Q (Q1), veh/ln	0.0	0.8	0.0	17.6	0.0	0.1	0.0	0.2
2nd-Term Q (Q2), veh/ln	0.0	0.3	0.0	3.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.1	0.0	20.6	0.0	0.1	0.0	0.2
%ile Storage Ratio (RQ%)	0.00	0.50	0.00	2.14	0.00	0.01	0.00	0.03
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	0	8
Lane Assignment								
Lanes in Grp	0	0	0	0	0	0	0	0
Grp Vol (v), veh/h	0	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	0	18
Lane Assignment		T+R		T+R		T+R		T+R
Lanes in Grp	0	1	0	1	0	1	0	1
Grp Vol (v), veh/h	0	114	0	782	0	367	0	262
Grp Sat Flow (s), veh/h/ln	0	1605	0	1724	0	1489	0	1726
Q Serve Time (g_s), s	0.0	5.7	0.0	19.9	0.0	16.0	0.0	4.3
Cycle Q Clear Time (g_c), s	0.0	5.7	0.0	19.9	0.0	16.0	0.0	4.3
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.43	0.00	0.01	0.00	0.90	0.00	0.00
Lane Grp Cap (c), veh/h	0	285	0	1264	0	265	0	1266
V/C Ratio (X)	0.00	0.40	0.00	0.62	0.00	1.39	0.00	0.21
Avail Cap (c_a), veh/h	0	285	0	1264	0	265	0	1266
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	32.7	0.0	5.9	0.0	37.0	0.0	3.8
Incr Delay (d2), s/veh	0.0	4.1	0.0	0.9	0.0	195.4	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	36.9	0.0	6.8	0.0	232.4	0.0	3.9
1st-Term Q (Q1), veh/ln	0.0	2.5	0.0	9.3	0.0	6.5	0.0	2.0
2nd-Term Q (Q2), veh/ln	0.0	0.3	0.0	0.3	0.0	14.4	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	2.8	0.0	9.7	0.0	20.9	0.0	2.1
%ile Storage Ratio (RQ%)	0.00	0.01	0.00	0.03	0.00	0.07	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	25.6	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	51.6
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	655	711	8	16	240	1	30	60	45	4	32	305
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	712	773	9	17	261	1	33	65	49	4	35	332
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	788	1250	15	407	1261	5	80	163	123	216	25	240
Arrive On Green	0.73	0.73	0.73	0.73	0.73	0.73	0.18	0.18	0.18	0.18	0.18	0.18
Sat Flow, veh/h	1032	1704	20	638	1720	7	937	915	690	1181	142	1347
Grp Volume(v), veh/h	712	0	782	17	0	262	33	0	114	4	0	367
Grp Sat Flow(s),veh/h/ln	1032	0	1724	638	0	1726	937	0	1605	1181	0	1489
Q Serve(g_s), s	61.7	0.0	19.9	1.2	0.0	4.3	0.0	0.0	5.7	0.3	0.0	16.0
Cycle Q Clear(g_c), s	66.0	0.0	19.9	21.1	0.0	4.3	16.0	0.0	5.7	5.9	0.0	16.0
Prop In Lane	1.00		0.01	1.00		0.00	1.00		0.43	1.00		0.90
Lane Grp Cap(c), veh/h	788	0	1264	407	0	1266	80	0	285	216	0	265
V/C Ratio(X)	0.90	0.00	0.62	0.04	0.00	0.21	0.41	0.00	0.40	0.02	0.00	1.39
Avail Cap(c_a), veh/h	788	0	1264	407	0	1266	80	0	285	216	0	265
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	14.3	0.0	5.9	11.0	0.0	3.8	45.0	0.0	32.7	35.4	0.0	37.0
Incr Delay (d2), s/veh	13.9	0.0	0.9	0.0	0.0	0.1	15.0	0.0	4.1	0.2	0.0	195.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	20.6	0.0	9.7	0.2	0.0	2.1	1.1	0.0	2.8	0.1	0.0	20.9
LnGrp Delay(d),s/veh	28.2	0.0	6.8	11.1	0.0	3.9	60.0	0.0	36.9	35.5	0.0	232.4
LnGrp LOS	C		A	B		A	E		D	D		F
Approach Vol, veh/h		1494			279			147			371	
Approach Delay, s/veh		17.0			4.3			42.1			230.3	
Approach LOS		B			A			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Phs Duration (G+Y+Rc), s		20.0		70.0		20.0		70.0
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green Setting (Gmax), s		16.0		66.0		16.0		66.0
Max Q Clear Time (g_c+I1), s		18.0		68.0		18.0		23.1
Green Ext Time (p_c), s		0.0		0.0		0.0		12.7

Intersection Summary		
HCM 2010 Ctrl Delay		51.6
HCM 2010 LOS		D

Intersection	
Intersection Delay, s/veh	41.5
Intersection LOS	E

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Vol, veh/h	0	11	10	8	0	44	35	158	0	10	205	115	0	499	371	10
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	12	11	9	0	48	38	172	0	11	223	125	0	542	403	11
Number of Lanes	0	0	1	0	0	0	1	1	0	0	1	0	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	2	1
HCM Control Delay	11.1	12.3	16.4	59.7
HCM LOS	B	B	C	F

Lane	NBLn1	EBLn1	WBLn1	WBLn2	SBLn1
Vol Left, %	3%	38%	56%	0%	57%
Vol Thru, %	62%	34%	44%	0%	42%
Vol Right, %	35%	28%	0%	100%	1%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	330	29	79	158	880
LT Vol	10	11	44	0	499
Through Vol	205	10	35	0	371
RT Vol	115	8	0	158	10
Lane Flow Rate	359	32	86	172	957
Geometry Grp	2	5	7	7	2
Degree of Util (X)	0.573	0.066	0.18	0.314	1
Departure Headway (Hd)	5.751	7.537	7.551	6.574	5.759
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	624	478	472	543	641
Service Time	3.831	5.537	5.343	4.365	3.761
HCM Lane V/C Ratio	0.575	0.067	0.182	0.317	1.493
HCM Control Delay	16.4	11.1	12	12.4	59.7
HCM Lane LOS	C	B	B	B	F
HCM 95th-tile Q	3.6	0.2	0.6	1.3	15.3

Movement	NBL	NBR	SET	SER	NWL	NWT
Lane Configurations						
Volume (veh/h)	103	37	0	0	0	0
Number	5	12	4	14	3	8
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1598	1598	1727	1727
Adj Flow Rate, veh/h	112	40	0	0	0	0
Adj No. of Lanes	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Opposing Right Turn Influence	Yes				Yes	
Cap, veh/h	151	135	1309	1113	2	1415
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.09	0.09	0.00	0.00	0.00	0.00
Ln Grp Delay, s/veh	46.8	39.4	0.0	0.0	0.0	0.0
Ln Grp LOS	D	D				
Approach Vol, veh/h	152		0			0
Approach Delay, s/veh	44.9		0.0			0.0
Approach LOS	D					

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4				8
Case No		9.0	2.0	7.0				4.0
Phs Duration (G+Y+Rc), s		12.2	0.0	77.8				77.8
Change Period (Y+Rc), s		4.0	4.0	4.0				4.0
Max Green (Gmax), s		30.0	18.0	30.0				52.0
Max Allow Headway (MAH), s		4.2	0.0	0.0				0.0
Max Q Clear (g_c+I1), s		8.0	0.0	0.0				0.0
Green Ext Time (g_e), s		0.5	0.0	0.0				0.0
Prob of Phs Call (p_c)		0.98	0.00	0.00				0.00
Prob of Max Out (p_x)		0.00	0.00	0.00				0.00

Left-Turn Movement Data								
Assigned Mvmt		5	3	7				
Mvmt Sat Flow, veh/h		1645	1645	0				

Through Movement Data								
Assigned Mvmt		2		4				8
Mvmt Sat Flow, veh/h		0		1598				1727

Right-Turn Movement Data								
Assigned Mvmt		12		14				18
Mvmt Sat Flow, veh/h		1468		1358				0

Left Lane Group Data								
Assigned Mvmt	0	5	3	7	0	0	0	0
Lane Assignment			(Prot)					
Lanes in Grp	0	1	1	0	0	0	0	0

Grp Vol (v), veh/h	0	112	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	1645	1645	0	0	0	0	0
Q Serve Time (g_s), s	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	1645	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	73.8	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	151	2	0	0	0	0	0
V/C Ratio (X)	0.00	0.74	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	548	329	0	0	0	0	0
Upstream Filter (I)	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	39.8	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	46.8	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	0	0	8
Lane Assignment				T				T
Lanes in Grp	0	0	0	1	0	0	0	1
Grp Vol (v), veh/h	0	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1598	0	0	0	1727
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	1309	0	0	0	1415
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	1309	0	0	0	1415
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

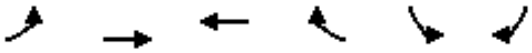
Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	0	0	18
Lane Assignment		R		R				
Lanes in Grp	0	1	0	1	0	0	0	0
Grp Vol (v), veh/h	0	40	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	1468	0	1358	0	0	0	0
Q Serve Time (g_s), s	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	135	0	1113	0	0	0	0
V/C Ratio (X)	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	489	0	1113	0	0	0	0
Upstream Filter (I)	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	38.2	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	39.4	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	44.9
HCM 2010 LOS	D

Movement	NBL	NBR	SET	SER	NWL	NWT
Lane Configurations						
Volume (veh/h)	103	37	0	0	0	0
Number	5	12	4	14	3	8
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1598	1598	1727	1727
Adj Flow Rate, veh/h	112	40	0	0	0	0
Adj No. of Lanes	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Cap, veh/h	151	135	1309	1113	2	1415
Arrive On Green	0.09	0.09	0.00	0.00	0.00	0.00
Sat Flow, veh/h	1645	1468	1598	1358	1645	1727
Grp Volume(v), veh/h	112	40	0	0	0	0
Grp Sat Flow(s),veh/h/ln	1645	1468	1598	1358	1645	1727
Q Serve(g_s), s	6.0	2.3	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	6.0	2.3	0.0	0.0	0.0	0.0
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	151	135	1309	1113	2	1415
V/C Ratio(X)	0.74	0.30	0.00	0.00	0.00	0.00
Avail Cap(c_a), veh/h	548	489	1309	1113	329	1415
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	0.00	0.00	0.00
Uniform Delay (d), s/veh	39.8	38.2	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	7.0	1.2	0.0	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.0	1.0	0.0	0.0	0.0	0.0
LnGrp Delay(d),s/veh	46.8	39.4	0.0	0.0	0.0	0.0
LnGrp LOS	D	D				
Approach Vol, veh/h	152		0			0
Approach Delay, s/veh	44.9		0.0			0.0
Approach LOS	D					

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4				8
Phs Duration (G+Y+Rc), s		12.2	0.0	77.8				77.8
Change Period (Y+Rc), s		4.0	4.0	4.0				4.0
Max Green Setting (Gmax), s		30.0	18.0	30.0				52.0
Max Q Clear Time (g_c+I1), s		8.0	0.0	0.0				0.0
Green Ext Time (p_c), s		0.5	0.0	0.0				0.0

Intersection Summary	
HCM 2010 Ctrl Delay	44.9
HCM 2010 LOS	D



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (veh/h)	20	679	259	127	116	2
Number	7	4	8	18	1	16
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00			1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	22	738	282	138	126	2
Adj No. of Lanes	1	2	2	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Opposing Right Turn Influence	Yes				Yes	
Cap, veh/h	31	2659	2452	1097	166	148
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.02	0.81	0.75	0.75	0.10	0.10
Ln Grp Delay, s/veh	69.7	2.3	3.2	3.4	46.4	36.5
Ln Grp LOS	E	A	A	A	D	D
Approach Vol, veh/h		760	420		128	
Approach Delay, s/veh		4.3	3.3		46.2	
Approach LOS		A	A		D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	6			4			7	8
Case No	9.0			4.0			2.0	7.0
Phs Duration (G+Y+Rc), s	13.1			76.9			5.7	71.2
Change Period (Y+Rc), s	4.0			4.0			4.0	4.0
Max Green (Gmax), s	29.0			53.0			18.0	31.0
Max Allow Headway (MAH), s	4.1			4.1			4.1	4.1
Max Q Clear (g_c+I1), s	8.7			7.0			3.2	4.4
Green Ext Time (g_e), s	0.4			5.6			0.0	5.3
Prob of Phs Call (p_c)	1.00			1.00			0.42	1.00
Prob of Max Out (p_x)	0.00			0.00			0.00	0.00

Left-Turn Movement Data								
Assigned Mvmt	1						7	3
Mvmt Sat Flow, veh/h	1645						1645	0

Through Movement Data								
Assigned Mvmt	6			4				8
Mvmt Sat Flow, veh/h	0			3368				3368

Right-Turn Movement Data								
Assigned Mvmt	16			14				18
Mvmt Sat Flow, veh/h	1468			0				1468

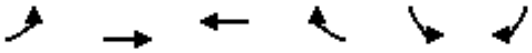
Left Lane Group Data								
Assigned Mvmt	1	0	0	0	0	0	7	3
Lane Assignment							(Prot)	
Lanes in Grp	1	0	0	0	0	0	1	0

Grp Vol (v), veh/h	126	0	0	0	0	0	22	0
Grp Sat Flow (s), veh/h/ln	1645	0	0	0	0	0	1645	0
Q Serve Time (g_s), s	6.7	0.0	0.0	0.0	0.0	0.0	1.2	0.0
Cycle Q Clear Time (g_c), s	6.7	0.0	0.0	0.0	0.0	0.0	1.2	0.0
Perm LT Sat Flow (s_l), veh/h/ln	1645	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.2
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	166	0	0	0	0	0	31	0
V/C Ratio (X)	0.76	0.00	0.00	0.00	0.00	0.00	0.71	0.00
Avail Cap (c_a), veh/h	530	0	0	0	0	0	329	0
Upstream Filter (I)	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	39.4	0.0	0.0	0.0	0.0	0.0	43.9	0.0
Incr Delay (d2), s/veh	7.0	0.0	0.0	0.0	0.0	0.0	25.8	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	46.4	0.0	0.0	0.0	0.0	0.0	69.7	0.0
1st-Term Q (Q1), veh/ln	3.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
2nd-Term Q (Q2), veh/ln	0.3	0.0	0.0	0.0	0.0	0.0	0.2	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00
%ile Back of Q (50%), veh/ln	3.4	0.0	0.0	0.0	0.0	0.0	0.8	0.0
%ile Storage Ratio (RQ%)	0.51	0.00	0.00	0.00	0.00	0.00	0.11	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	6	0	0	4	0	0	0	8
Lane Assignment				T				T
Lanes in Grp	0	0	0	2	0	0	0	2
Grp Vol (v), veh/h	0	0	0	738	0	0	0	282
Grp Sat Flow (s), veh/h/ln	0	0	0	1641	0	0	0	1641
Q Serve Time (g_s), s	0.0	0.0	0.0	5.0	0.0	0.0	0.0	2.1
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	5.0	0.0	0.0	0.0	2.1
Lane Grp Cap (c), veh/h	0	0	0	2659	0	0	0	2452
V/C Ratio (X)	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.12
Avail Cap (c_a), veh/h	0	0	0	2659	0	0	0	2452
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	2.1	0.0	0.0	0.0	3.1
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	2.3	0.0	0.0	0.0	3.2
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.9
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	2.2	0.0	0.0	0.0	1.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	16	0	0	14	0	0	0	18
Lane Assignment	R							R
Lanes in Grp	1	0	0	0	0	0	0	1
Grp Vol (v), veh/h	2	0	0	0	0	0	0	138
Grp Sat Flow (s), veh/h/ln	1468	0	0	0	0	0	0	1468
Q Serve Time (g_s), s	0.1	0.0	0.0	0.0	0.0	0.0	0.0	2.4
Cycle Q Clear Time (g_c), s	0.1	0.0	0.0	0.0	0.0	0.0	0.0	2.4
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	148	0	0	0	0	0	0	1097
V/C Ratio (X)	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.13
Avail Cap (c_a), veh/h	473	0	0	0	0	0	0	1097
Upstream Filter (I)	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	36.4	0.0	0.0	0.0	0.0	0.0	0.0	3.2
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	36.5	0.0	0.0	0.0	0.0	0.0	0.0	3.4
1st-Term Q (Q1), veh/ln	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	8.1
HCM 2010 LOS	A



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (veh/h)	20	679	259	127	116	2
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	22	738	282	138	126	2
Adj No. of Lanes	1	2	2	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Cap, veh/h	31	2659	2452	1097	166	148
Arrive On Green	0.02	0.81	0.75	0.75	0.10	0.10
Sat Flow, veh/h	1645	3368	3368	1468	1645	1468
Grp Volume(v), veh/h	22	738	282	138	126	2
Grp Sat Flow(s),veh/h/ln	1645	1641	1641	1468	1645	1468
Q Serve(g_s), s	1.2	5.0	2.1	2.4	6.7	0.1
Cycle Q Clear(g_c), s	1.2	5.0	2.1	2.4	6.7	0.1
Prop In Lane	1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	31	2659	2452	1097	166	148
V/C Ratio(X)	0.71	0.28	0.12	0.13	0.76	0.01
Avail Cap(c_a), veh/h	329	2659	2452	1097	530	473
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	43.9	2.1	3.1	3.2	39.4	36.4
Incr Delay (d2), s/veh	25.8	0.3	0.1	0.2	7.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	2.2	1.0	1.0	3.4	0.1
LnGrp Delay(d),s/veh	69.7	2.3	3.2	3.4	46.4	36.5
LnGrp LOS	E	A	A	A	D	D
Approach Vol, veh/h		760	420		128	
Approach Delay, s/veh		4.3	3.3		46.2	
Approach LOS		A	A		D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6	7	8
Phs Duration (G+Y+Rc), s				76.9		13.1	5.7	71.2
Change Period (Y+Rc), s				4.0		4.0	4.0	4.0
Max Green Setting (Gmax), s				53.0		29.0	18.0	31.0
Max Q Clear Time (g_c+I1), s				7.0		8.7	3.2	4.4
Green Ext Time (p_c), s				5.6		0.4	0.0	5.3

Intersection Summary	
HCM 2010 Ctrl Delay	8.1
HCM 2010 LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	95	1089	226	156	686	15	33	67	20	51	393	33
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	103	1184	246	170	746	16	36	73	22	55	427	36
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	253	1345	602	200	1240	555	43	431	366	68	457	388
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.15	0.41	0.41	0.12	0.38	0.38	0.03	0.25	0.25	0.04	0.26	0.26
Ln Grp Delay, s/veh	35.4	32.4	20.7	65.9	24.7	11.1	74.7	26.7	25.8	62.1	58.7	11.3
Ln Grp LOS	D	C	C	E	C	B	E	C	C	E	E	B
Approach Vol, veh/h		1533			932			131			518	
Approach Delay, s/veh		30.8			32.0			39.7			55.8	
Approach LOS		C			C			D			E	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	8	7
Case No	2.0	3.0	2.0	3.0	2.0	3.0	3.0	2.0
Phs Duration (G+Y+Rc), s	7.7	26.4	15.0	40.9	6.4	27.8	38.0	17.8
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	7.0	21.0	11.0	35.0	4.0	24.0	34.0	12.0
Max Allow Headway (MAH), s	4.1	4.0	4.1	4.1	4.1	4.0	4.0	4.1
Max Q Clear (g_c+I1), s	5.0	5.0	11.1	32.0	4.0	23.7	18.5	7.1
Green Ext Time (g_e), s	0.0	1.8	0.0	2.0	0.0	0.1	3.0	3.0
Prob of Phs Call (p_c)	0.75	1.00	0.99	1.00	0.59	1.00	1.00	0.92
Prob of Max Out (p_x)	1.00	0.01	1.00	0.00	1.00	1.00	0.00	0.91

Left-Turn Movement Data								
Assigned Mvmt	1		3		5			7
Mvmt Sat Flow, veh/h	1645		1645		1645			1645

Through Movement Data								
Assigned Mvmt		2		4		6	8	
Mvmt Sat Flow, veh/h		1727		3282		1727	3282	

Right-Turn Movement Data								
Assigned Mvmt		12		14		16	18	
Mvmt Sat Flow, veh/h		1468		1468		1468	1468	

Left Lane Group Data								
Assigned Mvmt	1	0	3	0	5	0	0	7
Lane Assignment	(Prot)		(Prot)		(Prot)			(Prot)
Lanes in Grp	1	0	1	0	1	0	0	1

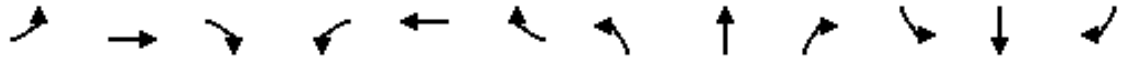
Grp Vol (v), veh/h	55	0	170	0	36	0	0	103
Grp Sat Flow (s), veh/h/ln	1645	0	1645	0	1645	0	0	1645
Q Serve Time (g_s), s	3.0	0.0	9.1	0.0	2.0	0.0	0.0	5.1
Cycle Q Clear Time (g_c), s	3.0	0.0	9.1	0.0	2.0	0.0	0.0	5.1
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	68	0	200	0	43	0	0	253
V/C Ratio (X)	0.81	0.00	0.85	0.00	0.83	0.00	0.00	0.41
Avail Cap (c_a), veh/h	128	0	201	0	73	0	0	253
Upstream Filter (I)	1.00	0.00	0.99	0.00	1.00	0.00	0.00	0.92
Uniform Delay (d1), s/veh	42.8	0.0	38.7	0.0	43.6	0.0	0.0	34.4
Incr Delay (d2), s/veh	19.3	0.0	27.1	0.0	31.1	0.0	0.0	1.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	62.1	0.0	65.9	0.0	74.7	0.0	0.0	35.4
1st-Term Q (Q1), veh/ln	1.4	0.0	4.2	0.0	0.9	0.0	0.0	2.3
2nd-Term Q (Q2), veh/ln	0.4	0.0	1.5	0.0	0.4	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	1.7	0.0	5.7	0.0	1.3	0.0	0.0	2.4
%ile Storage Ratio (RQ%)	0.56	0.00	0.42	0.00	0.28	0.00	0.00	0.19
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	8	0
Lane Assignment		T		T		T	T	
Lanes in Grp	0	1	0	2	0	1	2	0
Grp Vol (v), veh/h	0	73	0	1184	0	427	746	0
Grp Sat Flow (s), veh/h/ln	0	1727	0	1641	0	1727	1641	0
Q Serve Time (g_s), s	0.0	3.0	0.0	30.0	0.0	21.7	16.5	0.0
Cycle Q Clear Time (g_c), s	0.0	3.0	0.0	30.0	0.0	21.7	16.5	0.0
Lane Grp Cap (c), veh/h	0	431	0	1345	0	457	1240	0
V/C Ratio (X)	0.00	0.17	0.00	0.88	0.00	0.93	0.60	0.00
Avail Cap (c_a), veh/h	0	431	0	1345	0	461	1240	0
Upstream Filter (I)	0.00	1.00	0.00	0.92	0.00	1.00	0.99	0.00
Uniform Delay (d1), s/veh	0.0	26.5	0.0	24.5	0.0	32.3	22.5	0.0
Incr Delay (d2), s/veh	0.0	0.2	0.0	7.9	0.0	26.4	2.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	26.7	0.0	32.4	0.0	58.7	24.7	0.0
1st-Term Q (Q1), veh/ln	0.0	1.4	0.0	13.5	0.0	10.3	7.5	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	1.5	0.0	3.3	0.4	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	1.4	0.0	15.0	0.0	13.7	7.8	0.0
%ile Storage Ratio (RQ%)	0.00	0.02	0.00	0.04	0.00	0.04	0.02	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	18	0
Lane Assignment		R		R		R	R	
Lanes in Grp	0	1	0	1	0	1	1	0
Grp Vol (v), veh/h	0	22	0	246	0	36	16	0
Grp Sat Flow (s), veh/h/ln	0	1468	0	1468	0	1468	1468	0
Q Serve Time (g_s), s	0.0	1.0	0.0	10.7	0.0	1.1	0.5	0.0
Cycle Q Clear Time (g_c), s	0.0	1.0	0.0	10.7	0.0	1.1	0.5	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	366	0	602	0	388	555	0
V/C Ratio (X)	0.00	0.06	0.00	0.41	0.00	0.09	0.03	0.00
Avail Cap (c_a), veh/h	0	366	0	602	0	392	555	0
Upstream Filter (I)	0.00	1.00	0.00	0.92	0.00	1.00	0.99	0.00
Uniform Delay (d1), s/veh	0.0	25.7	0.0	18.8	0.0	11.2	11.0	0.0
Incr Delay (d2), s/veh	0.0	0.1	0.0	1.9	0.0	0.1	0.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	25.8	0.0	20.7	0.0	11.3	11.1	0.0
1st-Term Q (Q1), veh/ln	0.0	0.4	0.0	4.3	0.0	0.5	0.2	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.4	0.0	4.6	0.0	0.5	0.2	0.0
%ile Storage Ratio (RQ%)	0.00	0.09	0.00	0.61	0.00	0.14	0.02	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	35.7
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	95	1089	226	156	686	15	33	67	20	51	393	33
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	103	1184	246	170	746	16	36	73	22	55	427	36
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	253	1345	602	200	1240	555	43	431	366	68	457	388
Arrive On Green	0.15	0.41	0.41	0.12	0.38	0.38	0.03	0.25	0.25	0.04	0.26	0.26
Sat Flow, veh/h	1645	3282	1468	1645	3282	1468	1645	1727	1468	1645	1727	1468
Grp Volume(v), veh/h	103	1184	246	170	746	16	36	73	22	55	427	36
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1641	1468	1645	1727	1468	1645	1727	1468
Q Serve(g_s), s	5.1	30.0	10.7	9.1	16.5	0.5	2.0	3.0	1.0	3.0	21.7	1.1
Cycle Q Clear(g_c), s	5.1	30.0	10.7	9.1	16.5	0.5	2.0	3.0	1.0	3.0	21.7	1.1
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	253	1345	602	200	1240	555	43	431	366	68	457	388
V/C Ratio(X)	0.41	0.88	0.41	0.85	0.60	0.03	0.83	0.17	0.06	0.81	0.93	0.09
Avail Cap(c_a), veh/h	253	1345	602	201	1240	555	73	431	366	128	461	392
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.92	0.92	0.92	0.99	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	34.4	24.5	18.8	38.7	22.5	11.0	43.6	26.5	25.7	42.8	32.3	11.2
Incr Delay (d2), s/veh	1.0	7.9	1.9	27.1	2.1	0.1	31.1	0.2	0.1	19.3	26.4	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.4	15.0	4.6	5.7	7.8	0.2	1.3	1.4	0.4	1.7	13.7	0.5
LnGrp Delay(d),s/veh	35.4	32.4	20.7	65.9	24.7	11.1	74.7	26.7	25.8	62.1	58.7	11.3
LnGrp LOS	D	C	C	E	C	B	E	C	C	E	E	B
Approach Vol, veh/h		1533			932			131			518	
Approach Delay, s/veh		30.8			32.0			39.7			55.8	
Approach LOS		C			C			D			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	7.7	26.4	15.0	40.9	6.4	27.8	17.8	38.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax),s	7.0	21.0	11.0	35.0	4.0	24.0	12.0	34.0
Max Q Clear Time (g_c+I1),s	5.0	5.0	11.1	32.0	4.0	23.7	7.1	18.5
Green Ext Time (p_c), s	0.0	1.8	0.0	2.0	0.0	0.1	3.0	3.0

Intersection Summary	
HCM 2010 Ctrl Delay	35.7
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	928	82	478	471	8	36	3	173	2	7	0
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	1009	89	520	512	9	39	3	188	2	8	0
Adj No. of Lanes	1	2	1	1	2	0	2	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	1	985	440	821	2747	48	109	113	96	4	58	49
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.00	0.30	0.30	0.50	0.83	0.83	0.03	0.07	0.07	0.00	0.03	0.00
Ln Grp Delay, s/veh	0.0	67.7	31.8	23.5	2.3	2.3	57.0	52.5	442.3	155.8	57.4	0.0
Ln Grp LOS		F	C	C	A	A	E	D	F	F	E	
Approach Vol, veh/h		1098			1041			230			10	
Approach Delay, s/veh		64.8			12.9			371.9			77.1	
Approach LOS		E			B			F			E	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	6	5	7	8
Case No	2.0	3.0	3.0	2.0	3.0	2.0	2.0	4.0
Phs Duration (G+Y+Rc), s	4.3	11.8	40.0	63.9	8.0	8.1	0.0	103.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	4.0	28.0	36.0	36.0	16.0	16.0	4.0	68.0
Max Allow Headway (MAH), s	4.1	4.3	4.0	4.1	4.0	4.3	0.0	4.1
Max Q Clear (g_c+I1), s	2.1	5.1	38.0	29.8	2.5	3.4	0.0	5.7
Green Ext Time (g_e), s	0.0	0.8	0.0	1.2	0.0	0.7	0.0	4.3
Prob of Phs Call (p_c)	0.06	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Prob of Max Out (p_x)	1.00	0.00	0.00	0.66	0.00	0.01	0.00	0.00

Left-Turn Movement Data								
Assigned Mvmt	1			3		5	7	
Mvmt Sat Flow, veh/h	1645			1645		3191	1645	

Through Movement Data								
Assigned Mvmt		2	4		6			8
Mvmt Sat Flow, veh/h		1727	3282		1727			3300

Right-Turn Movement Data								
Assigned Mvmt		12	14		16			18
Mvmt Sat Flow, veh/h		1468	1468		1468			58

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	0	5	7	0
Lane Assignment	(Prot)			(Prot)		(Prot)	(Prot)	
Lanes in Grp	1	0	0	1	0	2	1	0

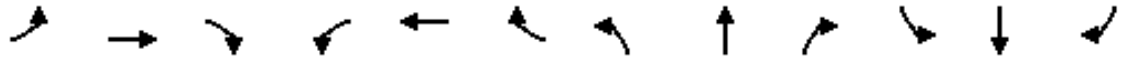
Grp Vol (v), veh/h	2	0	0	520	0	39	0	0
Grp Sat Flow (s), veh/h/ln	1645	0	0	1645	0	1596	1645	0
Q Serve Time (g_s), s	0.1	0.0	0.0	27.8	0.0	1.4	0.0	0.0
Cycle Q Clear Time (g_c), s	0.1	0.0	0.0	27.8	0.0	1.4	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	4	0	0	821	0	109	1	0
V/C Ratio (X)	0.57	0.00	0.00	0.63	0.00	0.36	0.00	0.00
Avail Cap (c_a), veh/h	55	0	0	821	0	426	55	0
Upstream Filter (I)	1.00	0.00	0.00	0.95	0.00	0.17	0.00	0.00
Uniform Delay (d1), s/veh	59.8	0.0	0.0	22.0	0.0	56.7	0.0	0.0
Incr Delay (d2), s/veh	96.0	0.0	0.0	1.5	0.0	0.3	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	155.8	0.0	0.0	23.5	0.0	57.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.1	0.0	0.0	12.6	0.0	0.6	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.0	0.3	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.2	0.0	0.0	12.9	0.0	0.6	0.0	0.0
%ile Storage Ratio (RQ%)	0.04	0.00	0.00	3.52	0.00	0.11	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	6	0	0	8
Lane Assignment		T	T		T			T
Lanes in Grp	0	1	2	0	1	0	0	1
Grp Vol (v), veh/h	0	3	1009	0	8	0	0	254
Grp Sat Flow (s), veh/h/ln	0	1727	1641	0	1727	0	0	1641
Q Serve Time (g_s), s	0.0	0.2	36.0	0.0	0.5	0.0	0.0	3.7
Cycle Q Clear Time (g_c), s	0.0	0.2	36.0	0.0	0.5	0.0	0.0	3.7
Lane Grp Cap (c), veh/h	0	113	985	0	58	0	0	1366
V/C Ratio (X)	0.00	0.03	1.02	0.00	0.14	0.00	0.00	0.19
Avail Cap (c_a), veh/h	0	403	985	0	230	0	0	1366
Upstream Filter (I)	0.00	0.17	0.44	0.00	1.00	0.00	0.00	0.95
Uniform Delay (d1), s/veh	0.0	52.5	42.0	0.0	56.3	0.0	0.0	2.0
Incr Delay (d2), s/veh	0.0	0.0	25.7	0.0	1.1	0.0	0.0	0.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	52.5	67.7	0.0	57.4	0.0	0.0	2.3
1st-Term Q (Q1), veh/ln	0.0	0.1	16.3	0.0	0.3	0.0	0.0	1.6
2nd-Term Q (Q2), veh/ln	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.1

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.1	19.8	0.0	0.3	0.0	0.0	1.7
%ile Storage Ratio (RQ%)	0.00	0.00	0.04	0.00	0.02	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	6.1	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	14	0	16	0	0	18
Lane Assignment		R	R		R			T+R
Lanes in Grp	0	1	1	0	1	0	0	1
Grp Vol (v), veh/h	0	188	89	0	0	0	0	267
Grp Sat Flow (s), veh/h/ln	0	1468	1468	0	1468	0	0	1717
Q Serve Time (g_s), s	0.0	3.1	5.4	0.0	0.0	0.0	0.0	3.7
Cycle Q Clear Time (g_c), s	0.0	3.1	5.4	0.0	0.0	0.0	0.0	3.7
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	0.03
Lane Grp Cap (c), veh/h	0	96	440	0	49	0	0	1429
V/C Ratio (X)	0.00	1.96	0.20	0.00	0.00	0.00	0.00	0.19
Avail Cap (c_a), veh/h	0	343	440	0	196	0	0	1429
Upstream Filter (I)	0.00	0.17	0.44	0.00	0.00	0.00	0.00	0.95
Uniform Delay (d1), s/veh	0.0	8.7	31.3	0.0	0.0	0.0	0.0	2.0
Incr Delay (d2), s/veh	0.0	433.6	0.5	0.0	0.0	0.0	0.0	0.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	442.3	31.8	0.0	0.0	0.0	0.0	2.3
1st-Term Q (Q1), veh/ln	0.0	1.3	2.2	0.0	0.0	0.0	0.0	1.7
2nd-Term Q (Q2), veh/ln	0.0	11.6	0.1	0.0	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	12.8	2.3	0.0	0.0	0.0	0.0	1.8
%ile Storage Ratio (RQ%)	0.00	3.23	0.25	0.00	0.00	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0

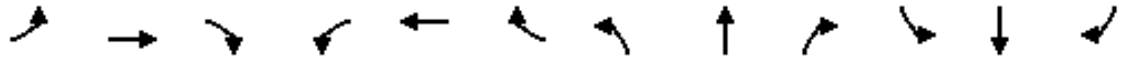
Intersection Summary	
HCM 2010 Ctrl Delay	71.8
HCM 2010 LOS	E



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	928	82	478	471	8	36	3	173	2	7	0
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	1009	89	520	512	9	39	3	188	2	8	0
Adj No. of Lanes	1	2	1	1	2	0	2	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	1	985	440	821	2747	48	109	113	96	4	58	49
Arrive On Green	0.00	0.30	0.30	0.50	0.83	0.83	0.03	0.07	0.07	0.00	0.03	0.00
Sat Flow, veh/h	1645	3282	1468	1645	3300	58	3191	1727	1468	1645	1727	1468
Grp Volume(v), veh/h	0	1009	89	520	254	267	39	3	188	2	8	0
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1641	1717	1596	1727	1468	1645	1727	1468
Q Serve(g_s), s	0.0	36.0	5.4	27.8	3.7	3.7	1.4	0.2	3.1	0.1	0.5	0.0
Cycle Q Clear(g_c), s	0.0	36.0	5.4	27.8	3.7	3.7	1.4	0.2	3.1	0.1	0.5	0.0
Prop In Lane	1.00		1.00	1.00		0.03	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	1	985	440	821	1366	1429	109	113	96	4	58	49
V/C Ratio(X)	0.00	1.02	0.20	0.63	0.19	0.19	0.36	0.03	1.96	0.57	0.14	0.00
Avail Cap(c_a), veh/h	55	985	440	821	1366	1429	426	403	343	55	230	196
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.44	0.44	0.95	0.95	0.95	0.17	0.17	0.17	1.00	1.00	0.00
Uniform Delay (d), s/veh	0.0	42.0	31.3	22.0	2.0	2.0	56.7	52.5	8.7	59.8	56.3	0.0
Incr Delay (d2), s/veh	0.0	25.7	0.5	1.5	0.3	0.3	0.3	0.0	433.6	96.0	1.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	19.8	2.3	12.9	1.7	1.8	0.6	0.1	12.8	0.2	0.3	0.0
LnGrp Delay(d),s/veh	0.0	67.7	31.8	23.5	2.3	2.3	57.0	52.5	442.3	155.8	57.4	0.0
LnGrp LOS		F	C	C	A	A	E	D	F	F	E	
Approach Vol, veh/h		1098			1041			230			10	
Approach Delay, s/veh		64.8			12.9			371.9			77.1	
Approach LOS		E			B			F			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	4.3	11.8	63.9	40.0	8.1	8.0	0.0	103.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	4.0	28.0	36.0	36.0	16.0	16.0	4.0	68.0
Max Q Clear Time (g_c+I1), s	2.1	5.1	29.8	38.0	3.4	2.5	0.0	5.7
Green Ext Time (p_c), s	0.0	0.8	1.2	0.0	0.7	0.0	0.0	4.3

Intersection Summary	
HCM 2010 Ctrl Delay	71.8
HCM 2010 LOS	E



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	12	1002	81	351	809	9	68	1	214	66	47	14
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	13	1089	88	382	879	10	74	1	233	72	51	15
Adj No. of Lanes	1	2	0	1	2	1	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	473	2435	197	358	2598	1162	191	1	207	60	182	53
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.79	0.79	0.79	0.79	0.79	0.79	0.14	0.14	0.14	0.14	0.14	0.14
Ln Grp Delay, s/veh	5.1	4.9	4.9	92.6	3.9	2.6	51.8	0.0	137.3	240.0	0.0	46.7
Ln Grp LOS	A	A	A	F	A	A	D		F	F		D
Approach Vol, veh/h		1190			1271			308			138	
Approach Delay, s/veh		4.9			30.6			116.7			147.5	
Approach LOS		A			C			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Case No		6.0		6.0		6.0		5.0
Phs Duration (G+Y+Rc), s		21.0		99.0		21.0		99.0
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green (Gmax), s		17.0		95.0		17.0		95.0
Max Allow Headway (MAH), s		4.4		4.9		4.4		4.9
Max Q Clear (g_c+I1), s		19.0		15.7		19.0		97.0
Green Ext Time (g_e), s		0.0		31.9		0.0		0.0
Prob of Phs Call (p_c)		1.00		1.00		1.00		1.00
Prob of Max Out (p_x)		1.00		0.00		1.00		0.00

Left-Turn Movement Data								
Assigned Mvmt		5		7		1		3
Mvmt Sat Flow, veh/h		1233		577		1059		440

Through Movement Data								
Assigned Mvmt		2		4		6		8
Mvmt Sat Flow, veh/h		6		3076		1283		3282

Right-Turn Movement Data								
Assigned Mvmt		12		14		16		18
Mvmt Sat Flow, veh/h		1463		248		377		1468

Left Lane Group Data								
Assigned Mvmt	0	5	0	7	0	1	0	3
Lane Assignment								
Lanes in Grp	0	1	0	1	0	1	0	1

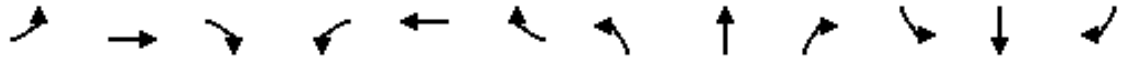
Grp Vol (v), veh/h	0	74	0	13	0	72	0	382
Grp Sat Flow (s), veh/h/ln	0	1233	0	577	0	1059	0	440
Q Serve Time (g_s), s	0.0	6.8	0.0	0.8	0.0	0.0	0.0	81.3
Cycle Q Clear Time (g_c), s	0.0	11.1	0.0	9.9	0.0	17.0	0.0	95.0
Perm LT Sat Flow (s_l), veh/h/ln	0	1233	0	577	0	1059	0	440
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	17.0	0.0	95.0	0.0	17.0	0.0	95.0
Perm LT Serve Time (g_u), s	0.0	12.7	0.0	85.9	0.0	0.0	0.0	81.3
Perm LT Q Serve Time (g_ps), s	0.0	6.8	0.0	0.8	0.0	0.0	0.0	81.3
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	191	0	473	0	60	0	358
V/C Ratio (X)	0.00	0.39	0.00	0.03	0.00	1.20	0.00	1.07
Avail Cap (c_a), veh/h	0	191	0	473	0	60	0	358
Upstream Filter (I)	0.00	0.58	0.00	0.76	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	51.0	0.0	5.0	0.0	60.0	0.0	26.2
Incr Delay (d2), s/veh	0.0	0.8	0.0	0.1	0.0	180.0	0.0	66.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	51.8	0.0	5.1	0.0	240.0	0.0	92.6
1st-Term Q (Q1), veh/ln	0.0	2.3	0.0	0.1	0.0	2.0	0.0	11.8
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	3.0	0.0	6.6
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	2.4	0.0	0.1	0.0	5.0	0.0	18.4
%ile Storage Ratio (RQ%)	0.00	0.56	0.00	0.01	0.00	0.24	0.00	2.57
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	3.0	0.0	6.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	0	8
Lane Assignment				T				T
Lanes in Grp	0	0	0	1	0	0	0	2
Grp Vol (v), veh/h	0	0	0	581	0	0	0	879
Grp Sat Flow (s), veh/h/ln	0	0	0	1641	0	0	0	1641
Q Serve Time (g_s), s	0.0	0.0	0.0	13.7	0.0	0.0	0.0	9.1
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	13.7	0.0	0.0	0.0	9.1
Lane Grp Cap (c), veh/h	0	0	0	1299	0	0	0	2598
V/C Ratio (X)	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.34
Avail Cap (c_a), veh/h	0	0	0	1299	0	0	0	2598
Upstream Filter (I)	0.00	0.00	0.00	0.76	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	4.0	0.0	0.0	0.0	3.6
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	4.9	0.0	0.0	0.0	3.9
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	6.1	0.0	0.0	0.0	4.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.1

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	6.4	0.0	0.0	0.0	4.2
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.08
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	0	18
Lane Assignment		T+R		T+R		T+R		R
Lanes in Grp	0	1	0	1	0	1	0	1
Grp Vol (v), veh/h	0	234	0	596	0	66	0	10
Grp Sat Flow (s), veh/h/ln	0	1469	0	1683	0	1661	0	1468
Q Serve Time (g_s), s	0.0	17.0	0.0	13.7	0.0	4.3	0.0	0.2
Cycle Q Clear Time (g_c), s	0.0	17.0	0.0	13.7	0.0	4.3	0.0	0.2
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	0.15	0.00	0.23	0.00	1.00
Lane Grp Cap (c), veh/h	0	208	0	1333	0	235	0	1162
V/C Ratio (X)	0.00	1.12	0.00	0.45	0.00	0.28	0.00	0.01
Avail Cap (c_a), veh/h	0	208	0	1333	0	235	0	1162
Upstream Filter (I)	0.00	0.58	0.00	0.76	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	51.5	0.0	4.0	0.0	46.0	0.0	2.6
Incr Delay (d2), s/veh	0.0	85.8	0.0	0.8	0.0	0.6	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	137.3	0.0	4.9	0.0	46.7	0.0	2.6
1st-Term Q (Q1), veh/ln	0.0	6.9	0.0	6.3	0.0	2.0	0.0	0.1
2nd-Term Q (Q2), veh/ln	0.0	5.0	0.0	0.3	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	11.8	0.0	6.6	0.0	2.0	0.0	0.1
%ile Storage Ratio (RQ%)	0.00	0.02	0.00	0.03	0.00	0.10	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0

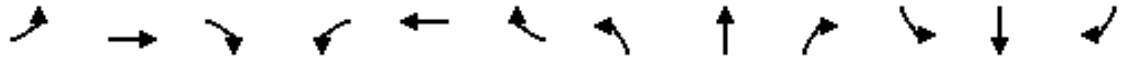
Intersection Summary	
HCM 2010 Ctrl Delay	34.7
HCM 2010 LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	12	1002	81	351	809	9	68	1	214	66	47	14
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	13	1089	88	382	879	10	74	1	233	72	51	15
Adj No. of Lanes	1	2	0	1	2	1	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	473	2435	197	358	2598	1162	191	1	207	60	182	53
Arrive On Green	0.79	0.79	0.79	0.79	0.79	0.79	0.14	0.14	0.14	0.14	0.14	0.14
Sat Flow, veh/h	577	3076	248	440	3282	1468	1233	6	1463	1059	1283	377
Grp Volume(v), veh/h	13	581	596	382	879	10	74	0	234	72	0	66
Grp Sat Flow(s),veh/h/ln	577	1641	1683	440	1641	1468	1233	0	1469	1059	0	1661
Q Serve(g_s), s	0.8	13.7	13.7	81.3	9.1	0.2	6.8	0.0	17.0	0.0	0.0	4.3
Cycle Q Clear(g_c), s	9.9	13.7	13.7	95.0	9.1	0.2	11.1	0.0	17.0	17.0	0.0	4.3
Prop In Lane	1.00		0.15	1.00		1.00	1.00		1.00	1.00		0.23
Lane Grp Cap(c), veh/h	473	1299	1333	358	2598	1162	191	0	208	60	0	235
V/C Ratio(X)	0.03	0.45	0.45	1.07	0.34	0.01	0.39	0.00	1.12	1.20	0.00	0.28
Avail Cap(c_a), veh/h	473	1299	1333	358	2598	1162	191	0	208	60	0	235
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.76	0.76	0.76	1.00	1.00	1.00	0.58	0.00	0.58	1.00	0.00	1.00
Uniform Delay (d), s/veh	5.0	4.0	4.0	26.2	3.6	2.6	51.0	0.0	51.5	60.0	0.0	46.0
Incr Delay (d2), s/veh	0.1	0.8	0.8	66.4	0.4	0.0	0.8	0.0	85.8	180.0	0.0	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	6.4	6.6	18.4	4.2	0.1	2.4	0.0	11.8	5.0	0.0	2.0
LnGrp Delay(d),s/veh	5.1	4.9	4.9	92.6	3.9	2.6	51.8	0.0	137.3	240.0	0.0	46.7
LnGrp LOS	A	A	A	F	A	A	D		F	F		D
Approach Vol, veh/h		1190			1271			308			138	
Approach Delay, s/veh		4.9			30.6			116.7			147.5	
Approach LOS		A			C			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Phs Duration (G+Y+Rc), s		21.0		99.0		21.0		99.0
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green Setting (Gmax), s		17.0		95.0		17.0		95.0
Max Q Clear Time (g_c+I1), s		19.0		15.7		19.0		97.0
Green Ext Time (p_c), s		0.0		31.9		0.0		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	34.7
HCM 2010 LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	277	812	134	378	729	271	231	718	228	164	716	100
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1545	1545	1545	1545	1545	1545	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	301	883	146	411	792	295	251	780	248	178	778	109
Adj No. of Lanes	1	2	1	1	2	1	1	2	0	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	23	23	23	23	23	23	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	306	832	372	356	929	416	219	715	227	160	684	306
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.21	0.28	0.28	0.24	0.32	0.32	0.13	0.29	0.29	0.05	0.21	0.21
Ln Grp Delay, s/veh	93.6	92.0	37.8	118.9	39.4	25.8	157.2	110.5	111.2	131.6	115.5	40.8
Ln Grp LOS	F	F	D	F	D	C	F	F	F	F	F	D
Approach Vol, veh/h		1330			1498			1279			1065	
Approach Delay, s/veh		86.4			58.5			120.0			110.5	
Approach LOS		F			E			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	5	6	7	8
Case No	4.0	2.0	2.0	3.0	2.0	3.0	2.0	3.0
Phs Duration (G+Y+Rc), s	39.0	10.0	33.0	38.0	20.0	29.0	29.0	42.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	35.0	6.0	29.0	34.0	16.0	25.0	25.0	38.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	37.0	8.0	31.0	36.0	18.0	27.0	26.4	32.3
Green Ext Time (g_e), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prob of Max Out (p_x)	1.00	1.00	1.00	0.00	1.00	1.00	1.00	0.00

Left-Turn Movement Data								
Assigned Mvmt		1	3		5		7	
Mvmt Sat Flow, veh/h		3191	1471		1645		1471	

Through Movement Data								
Assigned Mvmt	2			4		6		8
Mvmt Sat Flow, veh/h	2451			2935		3282		2935

Right-Turn Movement Data								
Assigned Mvmt	12			14		16		18
Mvmt Sat Flow, veh/h	779			1313		1468		1313

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	5	0	7	0
Lane Assignment		(Prot)	(Prot)		(Prot)		(Prot)	
Lanes in Grp	0	2	1	0	1	0	1	0

Grp Vol (v), veh/h	0	178	411	0	251	0	301	0
Grp Sat Flow (s), veh/h/ln	0	1596	1471	0	1645	0	1471	0
Q Serve Time (g_s), s	0.0	6.0	29.0	0.0	16.0	0.0	24.4	0.0
Cycle Q Clear Time (g_c), s	0.0	6.0	29.0	0.0	16.0	0.0	24.4	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	160	356	0	219	0	306	0
V/C Ratio (X)	0.00	1.12	1.16	0.00	1.14	0.00	0.98	0.00
Avail Cap (c_a), veh/h	0	160	356	0	219	0	306	0
Upstream Filter (I)	0.00	0.30	0.09	0.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	57.0	45.5	0.0	52.0	0.0	47.3	0.0
Incr Delay (d2), s/veh	0.0	74.6	73.4	0.0	105.2	0.0	46.4	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	131.6	118.9	0.0	157.2	0.0	93.6	0.0
1st-Term Q (Q1), veh/ln	0.0	2.6	11.8	0.0	7.3	0.0	9.9	0.0
2nd-Term Q (Q2), veh/ln	0.0	1.7	7.3	0.0	6.4	0.0	3.9	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	4.3	19.0	0.0	13.7	0.0	13.9	0.0
%ile Storage Ratio (RQ%)	0.00	0.59	1.39	0.00	1.37	0.00	1.10	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	4.6	13.9	0.0	7.9	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.3	0.3	0.0	0.3	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	0	6	0	8
Lane Assignment	T			T		T		T
Lanes in Grp	1	0	0	2	0	2	0	2
Grp Vol (v), veh/h	522	0	0	883	0	778	0	792
Grp Sat Flow (s), veh/h/ln	1641	0	0	1467	0	1641	0	1467
Q Serve Time (g_s), s	35.0	0.0	0.0	34.0	0.0	25.0	0.0	30.3
Cycle Q Clear Time (g_c), s	35.0	0.0	0.0	34.0	0.0	25.0	0.0	30.3
Lane Grp Cap (c), veh/h	479	0	0	832	0	684	0	929
V/C Ratio (X)	1.09	0.00	0.00	1.06	0.00	1.14	0.00	0.85
Avail Cap (c_a), veh/h	479	0	0	832	0	684	0	929
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	0.30	0.00	0.09
Uniform Delay (d1), s/veh	42.5	0.0	0.0	43.0	0.0	47.5	0.0	38.4
Incr Delay (d2), s/veh	68.0	0.0	0.0	49.0	0.0	68.0	0.0	1.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	110.5	0.0	0.0	92.0	0.0	115.5	0.0	39.4
1st-Term Q (Q1), veh/ln	15.8	0.0	0.0	13.7	0.0	11.3	0.0	12.2
2nd-Term Q (Q2), veh/ln	9.0	0.0	0.0	5.7	0.0	6.5	0.0	0.1

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	24.9	0.0	0.0	19.4	0.0	17.8	0.0	12.3
%ile Storage Ratio (RQ%)	0.20	0.00	0.00	0.01	0.00	0.02	0.00	0.07
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	10.9	0.0	0.0	12.9	0.0	23.6	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.3	0.0	0.0	0.3	0.0	0.3	0.0	0.0

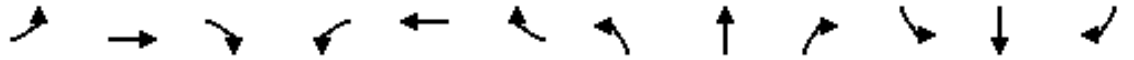
Right Lane Group Data								
Assigned Mvmt	12	0	0	14	0	16	0	18
Lane Assignment	T+R			R		R		R
Lanes in Grp	1	0	0	1	0	1	0	1
Grp Vol (v), veh/h	506	0	0	146	0	109	0	295
Grp Sat Flow (s), veh/h/ln	1590	0	0	1313	0	1468	0	1313
Q Serve Time (g_s), s	35.0	0.0	0.0	10.8	0.0	7.6	0.0	19.7
Cycle Q Clear Time (g_c), s	35.0	0.0	0.0	10.8	0.0	7.6	0.0	19.7
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.49	0.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	464	0	0	372	0	306	0	416
V/C Ratio (X)	1.09	0.00	0.00	0.39	0.00	0.36	0.00	0.71
Avail Cap (c_a), veh/h	464	0	0	372	0	306	0	416
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	0.30	0.00	0.09
Uniform Delay (d1), s/veh	42.5	0.0	0.0	34.7	0.0	40.6	0.0	24.8
Incr Delay (d2), s/veh	68.7	0.0	0.0	3.1	0.0	0.2	0.0	0.9
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	111.2	0.0	0.0	37.8	0.0	40.8	0.0	25.8
1st-Term Q (Q1), veh/ln	15.3	0.0	0.0	3.9	0.0	3.1	0.0	7.1
2nd-Term Q (Q2), veh/ln	8.9	0.0	0.0	0.3	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	24.2	0.0	0.0	4.2	0.0	3.1	0.0	7.2
%ile Storage Ratio (RQ%)	0.19	0.00	0.00	1.39	0.00	0.41	0.00	1.44
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	10.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	91.6
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	277	812	134	378	729	271	231	718	228	164	716	100
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1545	1545	1545	1545	1545	1545	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	301	883	146	411	792	295	251	780	248	178	778	109
Adj No. of Lanes	1	2	1	1	2	1	1	2	0	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	23	23	23	23	23	23	10	10	10	10	10	10
Cap, veh/h	306	832	372	356	929	416	219	715	227	160	684	306
Arrive On Green	0.21	0.28	0.28	0.24	0.32	0.32	0.13	0.29	0.29	0.05	0.21	0.21
Sat Flow, veh/h	1471	2935	1313	1471	2935	1313	1645	2451	779	3191	3282	1468
Grp Volume(v), veh/h	301	883	146	411	792	295	251	522	506	178	778	109
Grp Sat Flow(s),veh/h/ln	1471	1467	1313	1471	1467	1313	1645	1641	1590	1596	1641	1468
Q Serve(g_s), s	24.4	34.0	10.8	29.0	30.3	19.7	16.0	35.0	35.0	6.0	25.0	7.6
Cycle Q Clear(g_c), s	24.4	34.0	10.8	29.0	30.3	19.7	16.0	35.0	35.0	6.0	25.0	7.6
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.49	1.00		1.00
Lane Grp Cap(c), veh/h	306	832	372	356	929	416	219	479	464	160	684	306
V/C Ratio(X)	0.98	1.06	0.39	1.16	0.85	0.71	1.14	1.09	1.09	1.12	1.14	0.36
Avail Cap(c_a), veh/h	306	832	372	356	929	416	219	479	464	160	684	306
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.09	0.09	0.09	1.00	1.00	1.00	0.30	0.30	0.30
Uniform Delay (d), s/veh	47.3	43.0	34.7	45.5	38.4	24.8	52.0	42.5	42.5	57.0	47.5	40.6
Incr Delay (d2), s/veh	46.4	49.0	3.1	73.4	1.0	0.9	105.2	68.0	68.7	74.6	68.0	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	13.9	19.4	4.2	19.0	12.3	7.2	13.7	24.9	24.2	4.3	17.8	3.1
LnGrp Delay(d),s/veh	93.6	92.0	37.8	118.9	39.4	25.8	157.2	110.5	111.2	131.6	115.5	40.8
LnGrp LOS	F	F	D	F	D	C	F	F	F	F	F	D
Approach Vol, veh/h		1330			1498			1279			1065	
Approach Delay, s/veh		86.4			58.5			120.0			110.5	
Approach LOS		F			E			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.0	39.0	33.0	38.0	20.0	29.0	29.0	42.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	6.0	35.0	29.0	34.0	16.0	25.0	25.0	38.0
Max Q Clear Time (g_c+I1), s	8.0	37.0	31.0	36.0	18.0	27.0	26.4	32.3
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2

Intersection Summary	
HCM 2010 Ctrl Delay	91.6
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	220	2630	234	306	1010	161	525	918	148	207	1980	172
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1545	1545	1900	1545	1545	1545	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	239	2859	254	333	1098	175	571	998	161	225	2152	187
Adj No. of Lanes	2	2	0	2	2	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	23	23	23	23	23	23	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	362	1274	112	166	1168	523	266	1141	355	318	1218	379
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.13	0.47	0.47	0.06	0.40	0.40	0.08	0.24	0.24	0.10	0.26	0.26
Ln Grp Delay, s/veh	50.3	579.0	606.9	527.2	48.2	25.5	575.6	47.4	40.2	53.0	389.8	38.2
Ln Grp LOS	D	F	F	F	D	C	F	D	D	D	F	D
Approach Vol, veh/h		3352			1606			1730			2564	
Approach Delay, s/veh		554.6			145.1			221.1			334.6	
Approach LOS		F			F			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	6	5	8	7
Case No	3.0	2.0	4.0	2.0	3.0	2.0	3.0	2.0
Phs Duration (G+Y+Rc), s	33.0	16.0	60.0	11.0	35.0	14.0	51.8	19.2
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	32.0	9.0	56.0	7.0	31.0	10.0	50.0	13.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.0	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	26.4	10.2	58.0	9.0	33.0	12.0	45.2	11.6
Green Ext Time (g_e), s	2.6	0.0	0.0	0.0	0.0	0.0	2.6	0.4
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prob of Max Out (p_x)	0.76	1.00	1.00	1.00	1.00	1.00	0.90	1.00

Left-Turn Movement Data								
Assigned Mvmt		1		3		5		7
Mvmt Sat Flow, veh/h		3191		2854		3191		2854

Through Movement Data								
Assigned Mvmt	2		4		6		8	
Mvmt Sat Flow, veh/h	4715		2731		4715		2935	

Right-Turn Movement Data								
Assigned Mvmt	12		14		16		18	
Mvmt Sat Flow, veh/h	1468		239		1468		1313	

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	0	5	0	7
Lane Assignment		(Prot)		(Prot)		(Prot)		(Prot)
Lanes in Grp	0	2	0	2	0	2	0	2

Grp Vol (v), veh/h	0	225	0	333	0	571	0	239
Grp Sat Flow (s), veh/h/ln	0	1596	0	1427	0	1596	0	1427
Q Serve Time (g_s), s	0.0	8.2	0.0	7.0	0.0	10.0	0.0	9.6
Cycle Q Clear Time (g_c), s	0.0	8.2	0.0	7.0	0.0	10.0	0.0	9.6
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	318	0	166	0	266	0	362
V/C Ratio (X)	0.00	0.71	0.00	2.00	0.00	2.15	0.00	0.66
Avail Cap (c_a), veh/h	0	318	0	166	0	266	0	362
Upstream Filter (I)	0.00	0.09	0.00	1.00	0.00	0.35	0.00	0.09
Uniform Delay (d1), s/veh	0.0	52.3	0.0	56.5	0.0	55.0	0.0	49.9
Incr Delay (d2), s/veh	0.0	0.7	0.0	470.7	0.0	520.6	0.0	0.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	53.0	0.0	527.2	0.0	575.6	0.0	50.3
1st-Term Q (Q1), veh/ln	0.0	3.6	0.0	2.8	0.0	4.4	0.0	3.8
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	10.9	0.0	19.2	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	3.7	0.0	13.6	0.0	23.6	0.0	3.8
%ile Storage Ratio (RQ%)	0.00	0.44	0.00	0.84	0.00	3.29	0.00	0.22
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	41.6	0.0	76.3	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.5	0.0	0.5	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	6	0	8	0
Lane Assignment	T		T		T		T	
Lanes in Grp	3	0	1	0	3	0	2	0
Grp Vol (v), veh/h	998	0	1517	0	2152	0	1098	0
Grp Sat Flow (s), veh/h/ln	1572	0	1467	0	1572	0	1467	0
Q Serve Time (g_s), s	24.4	0.0	56.0	0.0	31.0	0.0	43.2	0.0
Cycle Q Clear Time (g_c), s	24.4	0.0	56.0	0.0	31.0	0.0	43.2	0.0
Lane Grp Cap (c), veh/h	1141	0	685	0	1218	0	1168	0
V/C Ratio (X)	0.87	0.00	2.21	0.00	1.77	0.00	0.94	0.00
Avail Cap (c_a), veh/h	1257	0	685	0	1218	0	1223	0
Upstream Filter (I)	0.35	0.00	0.09	0.00	0.09	0.00	1.00	0.00
Uniform Delay (d1), s/veh	43.7	0.0	32.0	0.0	44.5	0.0	34.7	0.0
Incr Delay (d2), s/veh	3.7	0.0	547.0	0.0	345.3	0.0	13.5	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	47.4	0.0	579.0	0.0	389.8	0.0	48.2	0.0
1st-Term Q (Q1), veh/ln	10.6	0.0	22.6	0.0	13.4	0.0	17.4	0.0
2nd-Term Q (Q2), veh/ln	0.4	0.0	104.1	0.0	38.9	0.0	2.2	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	11.0	0.0	126.7	0.0	52.4	0.0	19.6	0.0
%ile Storage Ratio (RQ%)	0.03	0.00	0.73	0.00	0.07	0.00	0.11	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	207.9	0.0	233.5	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.6	0.0	0.4	0.0	0.0	0.0

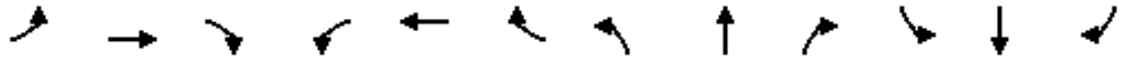
Right Lane Group Data								
Assigned Mvmt	12	0	14	0	16	0	18	0
Lane Assignment	R		T+R		R		R	
Lanes in Grp	1	0	1	0	1	0	1	0
Grp Vol (v), veh/h	161	0	1596	0	187	0	175	0
Grp Sat Flow (s), veh/h/ln	1468	0	1503	0	1468	0	1313	0
Q Serve Time (g_s), s	11.2	0.0	56.0	0.0	13.0	0.0	11.1	0.0
Cycle Q Clear Time (g_c), s	11.2	0.0	56.0	0.0	13.0	0.0	11.1	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.16	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	355	0	701	0	379	0	523	0
V/C Ratio (X)	0.45	0.00	2.28	0.00	0.49	0.00	0.33	0.00
Avail Cap (c_a), veh/h	392	0	701	0	379	0	547	0
Upstream Filter (I)	0.35	0.00	0.09	0.00	0.09	0.00	1.00	0.00
Uniform Delay (d1), s/veh	38.7	0.0	32.0	0.0	37.8	0.0	25.1	0.0
Incr Delay (d2), s/veh	1.5	0.0	574.9	0.0	0.4	0.0	0.4	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	40.2	0.0	606.9	0.0	38.2	0.0	25.5	0.0
1st-Term Q (Q1), veh/ln	4.6	0.0	23.2	0.0	5.2	0.0	4.0	0.0
2nd-Term Q (Q2), veh/ln	0.1	0.0	112.0	0.0	0.0	0.0	0.1	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	4.7	0.0	135.2	0.0	5.3	0.0	4.1	0.0
%ile Storage Ratio (RQ%)	0.62	0.00	0.77	0.00	0.76	0.00	1.12	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	223.8	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	360.2
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	220	2630	234	306	1010	161	525	918	148	207	1980	172
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1545	1545	1900	1545	1545	1545	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	239	2859	254	333	1098	175	571	998	161	225	2152	187
Adj No. of Lanes	2	2	0	2	2	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	23	23	23	23	23	23	10	10	10	10	10	10
Cap, veh/h	362	1274	112	166	1168	523	266	1141	355	318	1218	379
Arrive On Green	0.13	0.47	0.47	0.06	0.40	0.40	0.08	0.24	0.24	0.10	0.26	0.26
Sat Flow, veh/h	2854	2731	239	2854	2935	1313	3191	4715	1468	3191	4715	1468
Grp Volume(v), veh/h	239	1517	1596	333	1098	175	571	998	161	225	2152	187
Grp Sat Flow(s),veh/h/ln	1427	1467	1503	1427	1467	1313	1596	1572	1468	1596	1572	1468
Q Serve(g_s), s	9.6	56.0	56.0	7.0	43.2	11.1	10.0	24.4	11.2	8.2	31.0	13.0
Cycle Q Clear(g_c), s	9.6	56.0	56.0	7.0	43.2	11.1	10.0	24.4	11.2	8.2	31.0	13.0
Prop In Lane	1.00		0.16	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	362	685	701	166	1168	523	266	1141	355	318	1218	379
V/C Ratio(X)	0.66	2.21	2.28	2.00	0.94	0.33	2.15	0.87	0.45	0.71	1.77	0.49
Avail Cap(c_a), veh/h	362	685	701	166	1223	547	266	1257	392	318	1218	379
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.09	0.09	0.09	1.00	1.00	1.00	0.35	0.35	0.35	0.09	0.09	0.09
Uniform Delay (d), s/veh	49.9	32.0	32.0	56.5	34.7	25.1	55.0	43.7	38.7	52.3	44.5	37.8
Incr Delay (d2), s/veh	0.4	547.0	574.9	470.7	13.5	0.4	520.6	3.7	1.5	0.7	345.3	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.8	126.7	135.2	13.6	19.6	4.1	23.6	11.0	4.7	3.7	52.4	5.3
LnGrp Delay(d),s/veh	50.3	579.0	606.9	527.2	48.2	25.5	575.6	47.4	40.2	53.0	389.8	38.2
LnGrp LOS	D	F	F	F	D	C	F	D	D	D	F	D
Approach Vol, veh/h		3352			1606			1730			2564	
Approach Delay, s/veh		554.6			145.1			221.1			334.6	
Approach LOS		F			F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	16.0	33.0	11.0	60.0	14.0	35.0	19.2	51.8
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	9.0	32.0	7.0	56.0	10.0	31.0	13.0	50.0
Max Q Clear Time (g_c+I1), s	10.2	26.4	9.0	58.0	12.0	33.0	11.6	45.2
Green Ext Time (p_c), s	0.0	2.6	0.0	0.0	0.0	0.0	0.4	2.6

Intersection Summary	
HCM 2010 Ctrl Delay	360.2
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	95	646	224	514	681	28	383	147	246	107	55	146
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	103	702	243	559	740	30	416	160	267	116	60	159
Adj No. of Lanes	2	2	1	2	2	1	2	2	2	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	152	804	360	886	1559	697	483	429	338	338	280	125
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.05	0.25	0.25	0.28	0.47	0.47	0.15	0.13	0.13	0.11	0.09	0.09
Ln Grp Delay, s/veh	61.5	51.4	16.5	38.1	21.4	16.9	59.4	48.2	54.6	50.4	51.5	189.9
Ln Grp LOS	E	D	B	D	C	B	E	D	D	D	D	F
Approach Vol, veh/h		1048			1329			843			335	
Approach Delay, s/veh		44.3			28.3			55.7			116.8	
Approach LOS		D			C			E			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	5	6	8	7
Case No	3.0	2.0	3.0	2.0	2.0	3.0	3.0	2.0
Phs Duration (G+Y+Rc), s	19.7	16.7	33.4	37.3	22.2	14.2	61.0	9.7
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	30.0	9.0	35.0	30.0	23.0	16.0	57.0	8.0
Max Allow Headway (MAH), s	4.2	4.2	4.1	4.1	4.1	4.2	4.0	4.1
Max Q Clear (g_c+I1), s	14.0	6.0	26.7	20.4	17.3	9.7	20.3	5.8
Green Ext Time (g_e), s	1.7	0.4	2.8	2.1	0.9	0.5	3.5	0.1
Prob of Phs Call (p_c)	1.00	0.98	1.00	1.00	1.00	1.00	1.00	0.97
Prob of Max Out (p_x)	0.00	1.00	0.38	0.16	0.45	0.34	0.00	1.00

Left-Turn Movement Data								
Assigned Mvmt		1		3	5			7
Mvmt Sat Flow, veh/h		3191		3191	3191			3191

Through Movement Data								
Assigned Mvmt	2		4			6	8	
Mvmt Sat Flow, veh/h	3282		3282			3282	3282	

Right-Turn Movement Data								
Assigned Mvmt	12		14			16	18	
Mvmt Sat Flow, veh/h	2584		1468			1468	1468	

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	5	0	0	7
Lane Assignment		(Prot)		(Prot)	(Prot)			(Prot)
Lanes in Grp	0	2	0	2	2	0	0	2

Grp Vol (v), veh/h	0	116	0	559	416	0	0	103
Grp Sat Flow (s), veh/h/ln	0	1596	0	1596	1596	0	0	1596
Q Serve Time (g_s), s	0.0	4.0	0.0	18.4	15.3	0.0	0.0	3.8
Cycle Q Clear Time (g_c), s	0.0	4.0	0.0	18.4	15.3	0.0	0.0	3.8
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	338	0	886	483	0	0	152
V/C Ratio (X)	0.00	0.34	0.00	0.63	0.86	0.00	0.00	0.68
Avail Cap (c_a), veh/h	0	338	0	886	612	0	0	213
Upstream Filter (I)	0.00	1.00	0.00	0.09	0.97	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	49.8	0.0	38.0	49.7	0.0	0.0	56.2
Incr Delay (d2), s/veh	0.0	0.6	0.0	0.1	9.7	0.0	0.0	5.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	50.4	0.0	38.1	59.4	0.0	0.0	61.5
1st-Term Q (Q1), veh/ln	0.0	1.8	0.0	8.1	6.8	0.0	0.0	1.7
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.8	0.0	8.1	7.4	0.0	0.0	1.8
%ile Storage Ratio (RQ%)	0.00	0.31	0.00	1.13	1.05	0.00	0.00	0.23
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	0	6	8	0
Lane Assignment	T		T			T	T	
Lanes in Grp	2	0	2	0	0	2	2	0
Grp Vol (v), veh/h	160	0	702	0	0	60	740	0
Grp Sat Flow (s), veh/h/ln	1641	0	1641	0	0	1641	1641	0
Q Serve Time (g_s), s	5.3	0.0	24.7	0.0	0.0	2.0	18.3	0.0
Cycle Q Clear Time (g_c), s	5.3	0.0	24.7	0.0	0.0	2.0	18.3	0.0
Lane Grp Cap (c), veh/h	429	0	804	0	0	280	1559	0
V/C Ratio (X)	0.37	0.00	0.87	0.00	0.00	0.21	0.47	0.00
Avail Cap (c_a), veh/h	820	0	957	0	0	438	1559	0
Upstream Filter (I)	0.97	0.00	1.00	0.00	0.00	1.00	0.09	0.00
Uniform Delay (d1), s/veh	47.7	0.0	43.5	0.0	0.0	51.1	21.4	0.0
Incr Delay (d2), s/veh	0.5	0.0	7.9	0.0	0.0	0.4	0.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	48.2	0.0	51.4	0.0	0.0	51.5	21.4	0.0
1st-Term Q (Q1), veh/ln	2.4	0.0	11.1	0.0	0.0	0.9	8.3	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	2.5	0.0	12.0	0.0	0.0	0.9	8.3	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.10	0.00	0.00	0.06	0.06	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

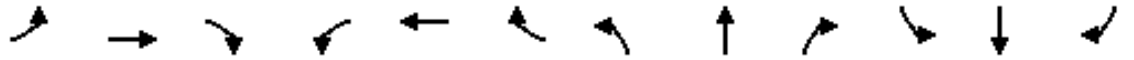
Right Lane Group Data								
Assigned Mvmt	12	0	14	0	0	16	18	0
Lane Assignment	R		R			R	R	
Lanes in Grp	2	0	1	0	0	1	1	0
Grp Vol (v), veh/h	267	0	243	0	0	159	30	0
Grp Sat Flow (s), veh/h/ln	1292	0	1468	0	0	1468	1468	0
Q Serve Time (g_s), s	12.0	0.0	10.2	0.0	0.0	7.7	1.3	0.0
Cycle Q Clear Time (g_c), s	12.0	0.0	10.2	0.0	0.0	7.7	1.3	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	1.00	0.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	338	0	360	0	0	125	697	0
V/C Ratio (X)	0.79	0.00	0.68	0.00	0.00	1.27	0.04	0.00
Avail Cap (c_a), veh/h	646	0	428	0	0	196	697	0
Upstream Filter (I)	0.97	0.00	1.00	0.00	0.00	1.00	0.09	0.00
Uniform Delay (d1), s/veh	50.6	0.0	13.3	0.0	0.0	31.5	16.9	0.0
Incr Delay (d2), s/veh	4.1	0.0	3.3	0.0	0.0	158.4	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	54.6	0.0	16.5	0.0	0.0	189.9	16.9	0.0
1st-Term Q (Q1), veh/ln	4.3	0.0	4.2	0.0	0.0	3.1	0.5	0.0
2nd-Term Q (Q2), veh/ln	0.2	0.0	0.3	0.0	0.0	5.5	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	4.5	0.0	4.5	0.0	0.0	8.6	0.5	0.0
%ile Storage Ratio (RQ%)	0.33	0.00	0.74	0.00	0.00	2.20	0.07	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	8.5	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	47.9
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	95	646	224	514	681	28	383	147	246	107	55	146
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	103	702	243	559	740	30	416	160	267	116	60	159
Adj No. of Lanes	2	2	1	2	2	1	2	2	2	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	152	804	360	886	1559	697	483	429	338	338	280	125
Arrive On Green	0.05	0.25	0.25	0.28	0.47	0.47	0.15	0.13	0.13	0.11	0.09	0.09
Sat Flow, veh/h	3191	3282	1468	3191	3282	1468	3191	3282	2584	3191	3282	1468
Grp Volume(v), veh/h	103	702	243	559	740	30	416	160	267	116	60	159
Grp Sat Flow(s),veh/h/ln	1596	1641	1468	1596	1641	1468	1596	1641	1292	1596	1641	1468
Q Serve(g_s), s	3.8	24.7	10.2	18.4	18.3	1.3	15.3	5.3	12.0	4.0	2.0	7.7
Cycle Q Clear(g_c), s	3.8	24.7	10.2	18.4	18.3	1.3	15.3	5.3	12.0	4.0	2.0	7.7
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	152	804	360	886	1559	697	483	429	338	338	280	125
V/C Ratio(X)	0.68	0.87	0.68	0.63	0.47	0.04	0.86	0.37	0.79	0.34	0.21	1.27
Avail Cap(c_a), veh/h	213	957	428	886	1559	697	612	820	646	338	438	196
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.09	0.09	0.09	0.97	0.97	0.97	1.00	1.00	1.00
Uniform Delay (d), s/veh	56.2	43.5	13.3	38.0	21.4	16.9	49.7	47.7	50.6	49.8	51.1	31.5
Incr Delay (d2), s/veh	5.2	7.9	3.3	0.1	0.1	0.0	9.7	0.5	4.1	0.6	0.4	158.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.8	12.0	4.5	8.1	8.3	0.5	7.4	2.5	4.5	1.8	0.9	8.6
LnGrp Delay(d),s/veh	61.5	51.4	16.5	38.1	21.4	16.9	59.4	48.2	54.6	50.4	51.5	189.9
LnGrp LOS	E	D	B	D	C	B	E	D	D	D	D	F
Approach Vol, veh/h		1048			1329			843			335	
Approach Delay, s/veh		44.3			28.3			55.7			116.8	
Approach LOS		D			C			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	16.7	19.7	37.3	33.4	22.2	14.2	9.7	61.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	9.0	30.0	30.0	35.0	23.0	16.0	8.0	57.0
Max Q Clear Time (g_c+I1), s	6.0	14.0	20.4	26.7	17.3	9.7	5.8	20.3
Green Ext Time (p_c), s	0.4	1.7	2.1	2.8	0.9	0.5	0.1	3.5

Intersection Summary	
HCM 2010 Ctrl Delay	47.9
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	678	615	557	437	1659	297	379	1662	224	721	729	737
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	737	668	605	475	1803	323	412	1807	243	784	792	801
Adj No. of Lanes	2	3	1	2	3	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	479	1115	347	602	1297	404	293	1336	416	505	1650	514
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.15	0.24	0.24	0.19	0.28	0.28	0.09	0.28	0.28	0.16	0.35	0.35
Ln Grp Delay, s/veh	301.9	41.2	372.3	53.4	224.0	51.3	257.5	206.6	21.2	308.4	31.5	299.9
Ln Grp LOS	F	D	F	D	F	D	F	F	C	F	C	F
Approach Vol, veh/h		2010			2601			2462			2377	
Approach Delay, s/veh		236.5			171.4			196.8			213.2	
Approach LOS		F			F			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	5	6	7	8
Case No	2.0	3.0	3.0	2.0	2.0	3.0	2.0	3.0
Phs Duration (G+Y+Rc), s	23.0	38.0	32.4	26.6	15.0	46.0	22.0	37.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	19.0	34.0	33.0	18.0	11.0	42.0	18.0	33.0
Max Allow Headway (MAH), s	4.1	4.1	4.2	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	21.0	36.0	24.5	19.0	13.0	44.0	20.0	35.0
Green Ext Time (g_e), s	0.0	0.0	3.9	0.0	0.0	0.0	0.0	0.0
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prob of Max Out (p_x)	1.00	1.00	0.55	1.00	1.00	1.00	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt	1			3	5		7	
Mvmt Sat Flow, veh/h	3191			3191	3191		3191	

Through Movement Data								
Assigned Mvmt		2	4			6		8
Mvmt Sat Flow, veh/h		4715	4715			4715		4715

Right-Turn Movement Data								
Assigned Mvmt		12	14			16		18
Mvmt Sat Flow, veh/h		1468	1468			1468		1468

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	5	0	7	0
Lane Assignment	(Prot)			(Prot)	(Prot)		(Prot)	
Lanes in Grp	2	0	0	2	2	0	2	0

Grp Vol (v), veh/h	784	0	0	475	412	0	737	0
Grp Sat Flow (s), veh/h/ln	1596	0	0	1596	1596	0	1596	0
Q Serve Time (g_s), s	19.0	0.0	0.0	17.0	11.0	0.0	18.0	0.0
Cycle Q Clear Time (g_c), s	19.0	0.0	0.0	17.0	11.0	0.0	18.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	505	0	0	602	293	0	479	0
V/C Ratio (X)	1.55	0.00	0.00	0.79	1.41	0.00	1.54	0.00
Avail Cap (c_a), veh/h	505	0	0	602	293	0	479	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	1.00	0.00	0.78	0.00
Uniform Delay (d1), s/veh	50.5	0.0	0.0	46.4	54.5	0.0	51.0	0.0
Incr Delay (d2), s/veh	257.9	0.0	0.0	7.0	203.0	0.0	250.9	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	308.4	0.0	0.0	53.4	257.5	0.0	301.9	0.0
1st-Term Q (Q1), veh/ln	8.4	0.0	0.0	7.5	4.8	0.0	7.9	0.0
2nd-Term Q (Q2), veh/ln	18.1	0.0	0.0	0.6	8.2	0.0	16.7	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	26.4	0.0	0.0	8.1	13.1	0.0	24.6	0.0
%ile Storage Ratio (RQ%)	3.97	0.00	0.00	1.31	1.94	0.00	3.57	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	69.7	0.0	0.0	0.0	29.9	0.0	64.6	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.4	0.0	0.0	0.0	0.4	0.0	0.4	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	0	6	0	8
Lane Assignment		T	T			T		T
Lanes in Grp	0	3	3	0	0	3	0	3
Grp Vol (v), veh/h	0	1807	668	0	0	792	0	1803
Grp Sat Flow (s), veh/h/ln	0	1572	1572	0	0	1572	0	1572
Q Serve Time (g_s), s	0.0	34.0	15.1	0.0	0.0	15.7	0.0	33.0
Cycle Q Clear Time (g_c), s	0.0	34.0	15.1	0.0	0.0	15.7	0.0	33.0
Lane Grp Cap (c), veh/h	0	1336	1115	0	0	1650	0	1297
V/C Ratio (X)	0.00	1.35	0.60	0.00	0.00	0.48	0.00	1.39
Avail Cap (c_a), veh/h	0	1336	1297	0	0	1650	0	1297
Upstream Filter (I)	0.00	1.00	0.78	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	43.0	40.8	0.0	0.0	30.5	0.0	43.5
Incr Delay (d2), s/veh	0.0	163.6	0.5	0.0	0.0	1.0	0.0	180.5
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	206.6	41.2	0.0	0.0	31.5	0.0	224.0
1st-Term Q (Q1), veh/ln	0.0	14.7	6.6	0.0	0.0	6.8	0.0	14.3
2nd-Term Q (Q2), veh/ln	0.0	20.2	0.0	0.0	0.0	0.2	0.0	21.7

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	35.0	6.6	0.0	0.0	7.0	0.0	36.0
%ile Storage Ratio (RQ%)	0.00	0.20	0.05	0.00	0.00	0.06	0.00	0.72
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	117.7	0.0	0.0	0.0	0.0	0.0	126.6
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.3

Right Lane Group Data								
Assigned Mvmt	0	12	14	0	0	16	0	18
Lane Assignment		R	R			R		R
Lanes in Grp	0	1	1	0	0	1	0	1
Grp Vol (v), veh/h	0	243	605	0	0	801	0	323
Grp Sat Flow (s), veh/h/ln	0	1468	1468	0	0	1468	0	1468
Q Serve Time (g_s), s	0.0	11.0	22.5	0.0	0.0	42.0	0.0	24.5
Cycle Q Clear Time (g_c), s	0.0	11.0	22.5	0.0	0.0	42.0	0.0	24.5
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	416	347	0	0	514	0	404
V/C Ratio (X)	0.00	0.58	1.74	0.00	0.00	1.56	0.00	0.80
Avail Cap (c_a), veh/h	0	416	404	0	0	514	0	404
Upstream Filter (I)	0.00	1.00	0.78	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	15.3	28.8	0.0	0.0	39.0	0.0	40.4
Incr Delay (d2), s/veh	0.0	5.9	343.6	0.0	0.0	260.9	0.0	10.9
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	21.2	372.3	0.0	0.0	299.9	0.0	51.3
1st-Term Q (Q1), veh/ln	0.0	4.4	9.1	0.0	0.0	17.0	0.0	10.0
2nd-Term Q (Q2), veh/ln	0.0	0.7	33.1	0.0	0.0	37.2	0.0	1.2
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	5.1	42.3	0.0	0.0	54.2	0.0	11.2
%ile Storage Ratio (RQ%)	0.00	0.73	6.00	0.00	0.00	7.96	0.00	2.05
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	64.5	0.0	0.0	71.8	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.4	0.0	0.0	0.4	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	202.4
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	678	615	557	437	1659	297	379	1662	224	721	729	737
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	737	668	605	475	1803	323	412	1807	243	784	792	801
Adj No. of Lanes	2	3	1	2	3	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	479	1115	347	602	1297	404	293	1336	416	505	1650	514
Arrive On Green	0.15	0.24	0.24	0.19	0.28	0.28	0.09	0.28	0.28	0.16	0.35	0.35
Sat Flow, veh/h	3191	4715	1468	3191	4715	1468	3191	4715	1468	3191	4715	1468
Grp Volume(v), veh/h	737	668	605	475	1803	323	412	1807	243	784	792	801
Grp Sat Flow(s),veh/h/ln	1596	1572	1468	1596	1572	1468	1596	1572	1468	1596	1572	1468
Q Serve(g_s), s	18.0	15.1	22.5	17.0	33.0	24.5	11.0	34.0	11.0	19.0	15.7	42.0
Cycle Q Clear(g_c), s	18.0	15.1	22.5	17.0	33.0	24.5	11.0	34.0	11.0	19.0	15.7	42.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	479	1115	347	602	1297	404	293	1336	416	505	1650	514
V/C Ratio(X)	1.54	0.60	1.74	0.79	1.39	0.80	1.41	1.35	0.58	1.55	0.48	1.56
Avail Cap(c_a), veh/h	479	1297	404	602	1297	404	293	1336	416	505	1650	514
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.78	0.78	0.78	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	51.0	40.8	28.8	46.4	43.5	40.4	54.5	43.0	15.3	50.5	30.5	39.0
Incr Delay (d2), s/veh	250.9	0.5	343.6	7.0	180.5	10.9	203.0	163.6	5.9	257.9	1.0	260.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	24.6	6.6	42.3	8.1	36.0	11.2	13.1	35.0	5.1	26.4	7.0	54.2
LnGrp Delay(d),s/veh	301.9	41.2	372.3	53.4	224.0	51.3	257.5	206.6	21.2	308.4	31.5	299.9
LnGrp LOS	F	D	F	D	F	D	F	F	C	F	C	F
Approach Vol, veh/h		2010			2601			2462			2377	
Approach Delay, s/veh		236.5			171.4			196.8			213.2	
Approach LOS		F			F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	23.0	38.0	26.6	32.4	15.0	46.0	22.0	37.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	19.0	34.0	18.0	33.0	11.0	42.0	18.0	33.0
Max Q Clear Time (g_c+I1), s	12.1	36.0	19.0	24.5	13.0	44.0	20.0	35.0
Green Ext Time (p_c), s	0.0	0.0	0.0	3.9	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	202.4
HCM 2010 LOS	F

Intersection	
Int Delay, s/veh	0.1

Movement	NBL	NBT	NBR	SBL	SBT	SBR	SEL	SET	SER	NWL	NWT	NWR
Vol, veh/h	13	1229	0	0	325	39	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	0
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	14	1336	0	0	353	42	0	0	0	0	0	0

Major/Minor	Major1			Major2			Minor1		
Conflicting Flow All	396	0	0	1336	0	0	1738	1760	1336
Stage 1	-	-	-	-	-	-	1364	1364	-
Stage 2	-	-	-	-	-	-	374	396	-
Critical Hdwy	4.2	-	-	4.2	-	-	6.5	6.6	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	5.5	5.6	-
Critical Hdwy Stg 2	-	-	-	-	-	-	5.5	5.6	-
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.59	4.09	3.39
Pot Cap-1 Maneuver	1120	-	-	491	-	-	92	81	180
Stage 1	-	-	-	-	-	-	228	207	-
Stage 2	-	-	-	-	-	-	678	590	-
Platoon blocked, %		-	-		-	-			
Mov Cap-1 Maneuver	1120	-	-	491	-	-	88	0	180
Mov Cap-2 Maneuver	-	-	-	-	-	-	88	0	-
Stage 1	-	-	-	-	-	-	217	0	-
Stage 2	-	-	-	-	-	-	678	0	-

Approach	NB	SB	NW
HCM Control Delay, s	0.1	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBL	NBT	NBR	NWLn1	NWLn2	SBL	SBT	SBR
Capacity (veh/h)	1120	-	-	-	-	491	-	-
HCM Lane V/C Ratio	0.013	-	-	-	-	-	-	-
HCM Control Delay (s)	8.3	0	-	0	0	0	-	-
HCM Lane LOS	A	A	-	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	-	-	-	0	-	-

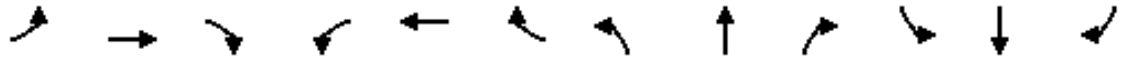
Intersection	
Int Delay, s/veh	0.3

Movement	WBL	WBR	NBL	NBT	NBR	SBL	SBT	SBR	SEL	SER
Vol, veh/h	0	0	0	817	1	28	313	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	-	-	-	None	-	-	None	-	None
Storage Length	-	-	-	-	-	-	-	-	0	0
Veh in Median Storage, #	0	-	-	0	-	-	0	-	0	-
Grade, %	0	-	-	0	-	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	19	19	28	28	28	28	28	28	19	19
Mvmt Flow	0	0	0	888	1	30	340	0	0	0

Major/Minor	Minor1		Major1			Major2			Minor2	
Conflicting Flow All	1290	889	340	0	0	889	0	0	1290	340
Stage 1	889	-	-	-	-	-	-	-	401	-
Stage 2	401	-	-	-	-	-	-	-	889	-
Critical Hdwy	7.29	6.39	4.38	-	-	4.38	-	-	7.29	6.39
Critical Hdwy Stg 1	6.29	-	-	-	-	-	-	-	6.29	-
Critical Hdwy Stg 2	6.29	-	-	-	-	-	-	-	6.29	-
Follow-up Hdwy	3.671	3.471	2.452	-	-	2.452	-	-	3.671	3.471
Pot Cap-1 Maneuver	129	319	1088	-	-	664	-	-	129	665
Stage 1	316	-	-	-	-	-	-	-	593	-
Stage 2	593	-	-	-	-	-	-	-	316	-
Platoon blocked, %				-	-		-	-		
Mov Cap-1 Maneuver	123	319	1088	-	-	664	-	-	123	665
Mov Cap-2 Maneuver	123	-	-	-	-	-	-	-	123	-
Stage 1	316	-	-	-	-	-	-	-	593	-
Stage 2	560	-	-	-	-	-	-	-	316	-

Approach	WB	NB	SB	SE
HCM Control Delay, s	0	0	0.9	0
HCM LOS	A			A

Minor Lane/Major Mvmt	NBL	NBT	NBR	WBLn1	SELn1	SELn2	SBL	SBT	SBR
Capacity (veh/h)	1088	-	-	-	-	-	664	-	-
HCM Lane V/C Ratio	-	-	-	-	-	-	0.046	-	-
HCM Control Delay (s)	0	-	-	0	0	0	10.7	0	-
HCM Lane LOS	A	-	-	A	A	A	B	A	-
HCM 95th %tile Q(veh)	0	-	-	-	-	-	0.1	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	161	369	8	9	83	145	3	129	9	62	54	40
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	175	401	9	10	90	158	3	140	10	67	59	43
Adj No. of Lanes	2	2	0	1	2	1	2	2	1	2	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	331	714	16	124	622	278	181	427	191	181	225	191
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.10	0.22	0.22	0.08	0.19	0.19	0.06	0.13	0.13	0.06	0.13	0.13
Ln Grp Delay, s/veh	14.4	12.1	12.1	13.5	10.5	13.1	13.7	12.6	11.8	15.2	12.7	12.6
Ln Grp LOS	B	B	B	B	B	B	B	B	B	B	B	B
Approach Vol, veh/h		585			258			153			169	
Approach Delay, s/veh		12.8			12.2			12.6			13.7	
Approach LOS		B			B			B			B	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	6	5	8	7
Case No	3.0	2.0	4.0	2.0	3.0	2.0	3.0	2.0
Phs Duration (G+Y+Rc), s	8.0	5.7	10.7	6.3	8.0	5.7	9.8	7.2
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	23.0	12.0	28.0	11.0	24.0	11.0	23.0	16.0
Max Allow Headway (MAH), s	4.0	4.1	4.0	4.1	4.2	4.1	4.2	4.1
Max Q Clear (g_c+I1), s	3.2	2.6	5.4	2.2	2.9	2.0	5.0	3.6
Green Ext Time (g_e), s	0.5	0.1	1.3	0.4	0.3	0.1	0.8	0.5
Prob of Phs Call (p_c)	1.00	0.44	1.00	0.08	1.00	0.03	1.00	0.78
Prob of Max Out (p_x)	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00

Left-Turn Movement Data								
Assigned Mvmt		1		3		5		7
Mvmt Sat Flow, veh/h		3191		1645		3191		3191

Through Movement Data								
Assigned Mvmt		2		4		6		8
Mvmt Sat Flow, veh/h		3282		3282		1727		3282

Right-Turn Movement Data								
Assigned Mvmt		12		14		16		18
Mvmt Sat Flow, veh/h		1468		74		1468		1468

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	0	5	0	7
Lane Assignment		(Prot)		(Prot)		(Prot)		(Prot)
Lanes in Grp	0	2	0	1	0	2	0	2

Grp Vol (v), veh/h	0	67	0	10	0	3	0	175
Grp Sat Flow (s), veh/h/ln	0	1596	0	1645	0	1596	0	1596
Q Serve Time (g_s), s	0.0	0.6	0.0	0.2	0.0	0.0	0.0	1.6
Cycle Q Clear Time (g_c), s	0.0	0.6	0.0	0.2	0.0	0.0	0.0	1.6
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	181	0	124	0	181	0	331
V/C Ratio (X)	0.00	0.37	0.00	0.08	0.00	0.02	0.00	0.53
Avail Cap (c_a), veh/h	0	1245	0	588	0	1141	0	1659
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	14.0	0.0	13.2	0.0	13.7	0.0	13.1
Incr Delay (d2), s/veh	0.0	1.3	0.0	0.3	0.0	0.0	0.0	1.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	15.2	0.0	13.5	0.0	13.7	0.0	14.4
1st-Term Q (Q1), veh/ln	0.0	0.3	0.0	0.1	0.0	0.0	0.0	0.7
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.3	0.0	0.1	0.0	0.0	0.0	0.8
%ile Storage Ratio (RQ%)	0.00	0.04	0.00	0.01	0.00	0.00	0.00	0.14
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	6	0	8	0
Lane Assignment	T		T		T		T	
Lanes in Grp	2	0	1	0	1	0	2	0
Grp Vol (v), veh/h	140	0	200	0	59	0	90	0
Grp Sat Flow (s), veh/h/ln	1641	0	1641	0	1727	0	1641	0
Q Serve Time (g_s), s	1.2	0.0	3.3	0.0	0.9	0.0	0.7	0.0
Cycle Q Clear Time (g_c), s	1.2	0.0	3.3	0.0	0.9	0.0	0.7	0.0
Lane Grp Cap (c), veh/h	427	0	357	0	225	0	622	0
V/C Ratio (X)	0.33	0.00	0.56	0.00	0.26	0.00	0.14	0.00
Avail Cap (c_a), veh/h	2453	0	1493	0	1347	0	2453	0
Upstream Filter (I)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	12.2	0.0	10.7	0.0	12.1	0.0	10.4	0.0
Incr Delay (d2), s/veh	0.4	0.0	1.4	0.0	0.6	0.0	0.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	12.6	0.0	12.1	0.0	12.7	0.0	10.5	0.0
1st-Term Q (Q1), veh/ln	0.5	0.0	1.5	0.0	0.4	0.0	0.3	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.6	0.0	1.6	0.0	0.5	0.0	0.3	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	16	0	18	0
Lane Assignment	R		T+R		R		R	
Lanes in Grp	1	0	1	0	1	0	1	0
Grp Vol (v), veh/h	10	0	210	0	43	0	158	0
Grp Sat Flow (s), veh/h/ln	1468	0	1714	0	1468	0	1468	0
Q Serve Time (g_s), s	0.2	0.0	3.4	0.0	0.8	0.0	3.0	0.0
Cycle Q Clear Time (g_c), s	0.2	0.0	3.4	0.0	0.8	0.0	3.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.04	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	191	0	373	0	191	0	278	0
V/C Ratio (X)	0.05	0.00	0.56	0.00	0.23	0.00	0.57	0.00
Avail Cap (c_a), veh/h	1097	0	1560	0	1145	0	1097	0
Upstream Filter (I)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	11.7	0.0	10.7	0.0	12.0	0.0	11.3	0.0
Incr Delay (d2), s/veh	0.1	0.0	1.3	0.0	0.6	0.0	1.8	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	11.8	0.0	12.1	0.0	12.6	0.0	13.1	0.0
1st-Term Q (Q1), veh/ln	0.1	0.0	1.6	0.0	0.3	0.0	1.2	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.1	0.0	1.7	0.0	0.4	0.0	1.3	0.0
%ile Storage Ratio (RQ%)	0.01	0.00	0.00	0.00	0.05	0.00	0.17	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	12.8
HCM 2010 LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	161	369	8	9	83	145	3	129	9	62	54	40
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	175	401	9	10	90	158	3	140	10	67	59	43
Adj No. of Lanes	2	2	0	1	2	1	2	2	1	2	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	331	714	16	124	622	278	181	427	191	181	225	191
Arrive On Green	0.10	0.22	0.22	0.08	0.19	0.19	0.06	0.13	0.13	0.06	0.13	0.13
Sat Flow, veh/h	3191	3282	74	1645	3282	1468	3191	3282	1468	3191	1727	1468
Grp Volume(v), veh/h	175	200	210	10	90	158	3	140	10	67	59	43
Grp Sat Flow(s),veh/h/ln	1596	1641	1714	1645	1641	1468	1596	1641	1468	1596	1727	1468
Q Serve(g_s), s	1.6	3.3	3.4	0.2	0.7	3.0	0.0	1.2	0.2	0.6	0.9	0.8
Cycle Q Clear(g_c), s	1.6	3.3	3.4	0.2	0.7	3.0	0.0	1.2	0.2	0.6	0.9	0.8
Prop In Lane	1.00		0.04	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	331	357	373	124	622	278	181	427	191	181	225	191
V/C Ratio(X)	0.53	0.56	0.56	0.08	0.14	0.57	0.02	0.33	0.05	0.37	0.26	0.23
Avail Cap(c_a), veh/h	1659	1493	1560	588	2453	1097	1141	2453	1097	1245	1347	1145
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	13.1	10.7	10.7	13.2	10.4	11.3	13.7	12.2	11.7	14.0	12.1	12.0
Incr Delay (d2), s/veh	1.3	1.4	1.3	0.3	0.1	1.8	0.0	0.4	0.1	1.3	0.6	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	1.6	1.7	0.1	0.3	1.3	0.0	0.6	0.1	0.3	0.5	0.4
LnGrp Delay(d),s/veh	14.4	12.1	12.1	13.5	10.5	13.1	13.7	12.6	11.8	15.2	12.7	12.6
LnGrp LOS	B	B	B	B	B	B	B	B	B	B	B	B
Approach Vol, veh/h		585			258			153			169	
Approach Delay, s/veh		12.8			12.2			12.6			13.7	
Approach LOS		B			B			B			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	5.7	8.0	6.3	10.7	5.7	8.0	7.2	9.8
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	1.2	23.0	11.0	28.0	11.0	24.0	16.0	23.0
Max Q Clear Time (g_c+I1), s	2.6	3.2	2.2	5.4	2.0	2.9	3.6	5.0
Green Ext Time (p_c), s	0.1	0.5	0.4	1.3	0.1	0.3	0.5	0.8

Intersection Summary	
HCM 2010 Ctrl Delay	12.8
HCM 2010 LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	94	144	83	33	209	57	56	326	21	55	207	101
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	102	157	90	36	227	62	61	354	23	60	225	110
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	133	255	146	44	252	69	77	386	25	579	599	293
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.08	0.25	0.25	0.03	0.19	0.19	0.05	0.24	0.24	0.35	0.55	0.55
Ln Grp Delay, s/veh	62.5	0.0	41.6	82.3	0.0	60.2	73.0	0.0	72.1	26.2	0.0	16.8
Ln Grp LOS	E		D	F		E	E		E	C		B
Approach Vol, veh/h		349			325			438			395	
Approach Delay, s/veh		47.8			62.6			72.2			18.2	
Approach LOS		D			E			E			B	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	5	6	8	7
Case No	4.0	2.0	2.0	4.0	2.0	4.0	4.0	2.0
Phs Duration (G+Y+Rc), s	32.9	46.3	7.2	33.6	9.6	69.5	27.1	13.7
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	40.0	13.0	10.0	41.0	13.0	40.0	34.0	17.0
Max Allow Headway (MAH), s	4.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	27.8	4.9	4.6	18.2	6.4	16.1	22.4	9.3
Green Ext Time (g_e), s	1.1	0.9	0.0	1.2	0.1	1.4	0.8	0.8
Prob of Phs Call (p_c)	1.00	0.86	0.70	1.00	0.87	1.00	1.00	0.97
Prob of Max Out (p_x)	0.02	0.16	0.18	0.00	0.06	0.00	0.01	0.16

Left-Turn Movement Data								
Assigned Mvmt		1	3		5			7
Mvmt Sat Flow, veh/h		1645	1645		1645			1645

Through Movement Data								
Assigned Mvmt	2			4		6	8	
Mvmt Sat Flow, veh/h	1605			1032		1097	1307	

Right-Turn Movement Data								
Assigned Mvmt	12			14		16	18	
Mvmt Sat Flow, veh/h	104			591		536	357	

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	5	0	0	7
Lane Assignment		(Prot)	(Prot)		(Prot)			(Prot)
Lanes in Grp	0	1	1	0	1	0	0	1

Grp Vol (v), veh/h	0	60	36	0	61	0	0	102
Grp Sat Flow (s), veh/h/ln	0	1645	1645	0	1645	0	0	1645
Q Serve Time (g_s), s	0.0	2.9	2.6	0.0	4.4	0.0	0.0	7.3
Cycle Q Clear Time (g_c), s	0.0	2.9	2.6	0.0	4.4	0.0	0.0	7.3
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	579	44	0	77	0	0	133
V/C Ratio (X)	0.00	0.10	0.81	0.00	0.79	0.00	0.00	0.77
Avail Cap (c_a), veh/h	0	579	137	0	178	0	0	233
Upstream Filter (I)	0.00	1.00	0.83	0.00	1.00	0.00	0.00	0.97
Uniform Delay (d1), s/veh	0.0	26.1	58.1	0.0	56.6	0.0	0.0	54.0
Incr Delay (d2), s/veh	0.0	0.1	24.2	0.0	16.4	0.0	0.0	8.5
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	26.2	82.3	0.0	73.0	0.0	0.0	62.5
1st-Term Q (Q1), veh/ln	0.0	1.3	1.2	0.0	2.0	0.0	0.0	3.3
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.3	0.0	0.4	0.0	0.0	0.3
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.3	1.5	0.0	2.3	0.0	0.0	3.6
%ile Storage Ratio (RQ%)	0.00	0.27	0.29	0.00	0.46	0.00	0.00	0.72
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	0	6	8	0
Lane Assignment								
Lanes in Grp	0	0	0	0	0	0	0	0
Grp Vol (v), veh/h	0	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

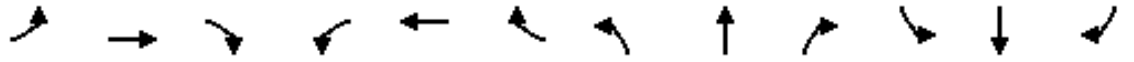
Right Lane Group Data								
Assigned Mvmt	12	0	0	14	0	16	18	0
Lane Assignment	T+R			T+R		T+R	T+R	
Lanes in Grp	1	0	0	1	0	1	1	0
Grp Vol (v), veh/h	377	0	0	247	0	335	289	0
Grp Sat Flow (s), veh/h/ln	1709	0	0	1623	0	1633	1664	0
Q Serve Time (g_s), s	25.8	0.0	0.0	16.2	0.0	14.1	20.4	0.0
Cycle Q Clear Time (g_c), s	25.8	0.0	0.0	16.2	0.0	14.1	20.4	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.06	0.00	0.00	0.36	0.00	0.33	0.21	0.00
Lane Grp Cap (c), veh/h	411	0	0	401	0	892	321	0
V/C Ratio (X)	0.92	0.00	0.00	0.62	0.00	0.38	0.90	0.00
Avail Cap (c_a), veh/h	570	0	0	554	0	892	472	0
Upstream Filter (I)	1.00	0.00	0.00	0.97	0.00	1.00	0.83	0.00
Uniform Delay (d1), s/veh	44.4	0.0	0.0	40.1	0.0	15.6	47.3	0.0
Incr Delay (d2), s/veh	27.7	0.0	0.0	1.5	0.0	1.2	12.9	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	72.1	0.0	0.0	41.6	0.0	16.8	60.2	0.0
1st-Term Q (Q1), veh/ln	12.1	0.0	0.0	7.3	0.0	6.3	9.4	0.0
2nd-Term Q (Q2), veh/ln	3.2	0.0	0.0	0.2	0.0	0.3	1.1	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	15.3	0.0	0.0	7.4	0.0	6.6	10.5	0.0
%ile Storage Ratio (RQ%)	0.04	0.00	0.00	0.04	0.00	0.02	0.06	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	50.3
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	94	144	83	33	209	57	56	326	21	55	207	101
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	102	157	90	36	227	62	61	354	23	60	225	110
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	133	255	146	44	252	69	77	386	25	579	599	293
Arrive On Green	0.08	0.25	0.25	0.03	0.19	0.19	0.05	0.24	0.24	0.35	0.55	0.55
Sat Flow, veh/h	1645	1032	591	1645	1307	357	1645	1605	104	1645	1097	536
Grp Volume(v), veh/h	102	0	247	36	0	289	61	0	377	60	0	335
Grp Sat Flow(s),veh/h/ln	1645	0	1623	1645	0	1664	1645	0	1709	1645	0	1633
Q Serve(g_s), s	7.3	0.0	16.2	2.6	0.0	20.4	4.4	0.0	25.8	2.9	0.0	14.1
Cycle Q Clear(g_c), s	7.3	0.0	16.2	2.6	0.0	20.4	4.4	0.0	25.8	2.9	0.0	14.1
Prop In Lane	1.00		0.36	1.00		0.21	1.00		0.06	1.00		0.33
Lane Grp Cap(c), veh/h	133	0	401	44	0	321	77	0	411	579	0	892
V/C Ratio(X)	0.77	0.00	0.62	0.81	0.00	0.90	0.79	0.00	0.92	0.10	0.00	0.38
Avail Cap(c_a), veh/h	233	0	554	137	0	472	178	0	570	579	0	892
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.97	0.00	0.97	0.83	0.00	0.83	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	54.0	0.0	40.1	58.1	0.0	47.3	56.6	0.0	44.4	26.1	0.0	15.6
Incr Delay (d2), s/veh	8.5	0.0	1.5	24.2	0.0	12.9	16.4	0.0	27.7	0.1	0.0	1.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.6	0.0	7.4	1.5	0.0	10.5	2.3	0.0	15.3	1.3	0.0	6.6
LnGrp Delay(d),s/veh	62.5	0.0	41.6	82.3	0.0	60.2	73.0	0.0	72.1	26.2	0.0	16.8
LnGrp LOS	E		D	F		E	E		E	C		B
Approach Vol, veh/h		349			325			438			395	
Approach Delay, s/veh		47.8			62.6			72.2			18.2	
Approach LOS		D			E			E			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	46.3	32.9	7.2	33.6	9.6	69.5	13.7	27.1
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	13.0	40.0	10.0	41.0	13.0	40.0	17.0	34.0
Max Q Clear Time (g_c+I1), s	4.9	27.8	4.6	18.2	6.4	16.1	9.3	22.4
Green Ext Time (p_c), s	0.9	1.1	0.0	1.2	0.1	1.4	0.8	0.8

Intersection Summary	
HCM 2010 Ctrl Delay	50.3
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	83	595	14	14	403	380	3	156	25	303	121	41
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1900	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	90	647	15	15	438	413	3	170	27	329	132	45
Adj No. of Lanes	1	1	0	1	1	1	0	1	0	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	207	734	17	120	754	641	33	721	113	582	858	730
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.44	0.44	0.44	0.44	0.44	0.44	0.50	0.50	0.50	0.50	0.50	0.50
Ln Grp Delay, s/veh	41.5	0.0	39.9	51.9	26.4	28.3	17.8	0.0	0.0	23.6	16.5	15.7
Ln Grp LOS	D		D	D	C	C	B			C	B	B
Approach Vol, veh/h		752			866			200			506	
Approach Delay, s/veh		40.1			27.7			17.8			21.1	
Approach LOS		D			C			B			C	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Case No		8.0		6.0		5.0		5.0
Phs Duration (G+Y+Rc), s		63.6		56.4		63.6		56.4
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green (Gmax), s		54.0		58.0		54.0		58.0
Max Allow Headway (MAH), s		4.4		4.3		4.4		4.3
Max Q Clear (g_c+I1), s		10.1		44.3		31.3		46.7
Green Ext Time (g_e), s		3.2		6.4		3.0		5.7
Prob of Phs Call (p_c)		1.00		1.00		1.00		1.00
Prob of Max Out (p_x)		0.00		0.46		0.01		0.56

Left-Turn Movement Data								
Assigned Mvmt		5		7		1		3
Mvmt Sat Flow, veh/h		5		598		1095		714

Through Movement Data								
Assigned Mvmt		2		4		6		8
Mvmt Sat Flow, veh/h		1451		1681		1727		1727

Right-Turn Movement Data								
Assigned Mvmt		12		14		16		18
Mvmt Sat Flow, veh/h		227		39		1468		1468

Left Lane Group Data								
Assigned Mvmt	0	5	0	7	0	1	0	3
Lane Assignment		L+T+R						
Lanes in Grp	0	1	0	1	0	1	0	1

Grp Vol (v), veh/h	0	200	0	90	0	329	0	15
Grp Sat Flow (s), veh/h/ln	0	1684	0	598	0	1095	0	714
Q Serve Time (g_s), s	0.0	0.0	0.0	16.0	0.0	21.2	0.0	2.4
Cycle Q Clear Time (g_c), s	0.0	8.1	0.0	39.0	0.0	29.3	0.0	44.7
Perm LT Sat Flow (s_l), veh/h/ln	0	1227	0	598	0	1095	0	714
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	773	0	0
Perm LT Eff Green (g_p), s	0.0	59.6	0.0	52.4	0.0	59.6	0.0	52.4
Perm LT Serve Time (g_u), s	0.0	54.6	0.0	29.4	0.0	51.5	0.0	10.1
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	16.0	0.0	21.2	0.0	2.4
Time to First Blk (g_f), s	0.0	46.7	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	8.1	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.01	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	867	0	207	0	582	0	120
V/C Ratio (X)	0.00	0.23	0.00	0.44	0.00	0.56	0.00	0.13
Avail Cap (c_a), veh/h	0	867	0	235	0	582	0	153
Upstream Filter (I)	0.00	0.92	0.00	0.86	0.00	0.09	0.00	1.00
Uniform Delay (d1), s/veh	0.0	17.2	0.0	40.3	0.0	23.3	0.0	51.4
Incr Delay (d2), s/veh	0.0	0.6	0.0	1.2	0.0	0.4	0.0	0.5
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	17.8	0.0	41.5	0.0	23.6	0.0	51.9
1st-Term Q (Q1), veh/ln	0.0	3.8	0.0	2.7	0.0	8.1	0.0	0.5
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	3.9	0.0	2.7	0.0	8.2	0.0	0.5
%ile Storage Ratio (RQ%)	0.00	0.01	0.00	0.42	0.00	1.20	0.00	0.08
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	0	8
Lane Assignment						T		T
Lanes in Grp	0	0	0	0	0	1	0	1
Grp Vol (v), veh/h	0	0	0	0	0	132	0	438
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	1727	0	1727
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	5.0	0.0	23.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	5.0	0.0	23.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	858	0	754
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.58
Avail Cap (c_a), veh/h	0	0	0	0	0	858	0	835
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.09	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	16.4	0.0	25.5
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	16.5	0.0	26.4
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	2.4	0.0	11.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	2.4	0.0	11.1
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	0	18
Lane Assignment				T+R		R		R
Lanes in Grp	0	0	0	1	0	1	0	1
Grp Vol (v), veh/h	0	0	0	662	0	45	0	413
Grp Sat Flow (s), veh/h/ln	0	0	0	1720	0	1468	0	1468
Q Serve Time (g_s), s	0.0	0.0	0.0	42.3	0.0	1.9	0.0	26.5
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	42.3	0.0	1.9	0.0	26.5
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.13	0.00	0.02	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	0	0	751	0	730	0	641
V/C Ratio (X)	0.00	0.00	0.00	0.88	0.00	0.06	0.00	0.64
Avail Cap (c_a), veh/h	0	0	0	832	0	730	0	710
Upstream Filter (I)	0.00	0.00	0.00	0.86	0.00	0.09	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	31.0	0.0	15.7	0.0	26.5
Incr Delay (d2), s/veh	0.0	0.0	0.0	9.0	0.0	0.0	0.0	1.7
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	39.9	0.0	15.7	0.0	28.3
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	20.0	0.0	0.8	0.0	10.7
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.3
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	21.9	0.0	0.8	0.0	11.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.12	0.00	0.06	0.00	0.91
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	29.4
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	83	595	14	14	403	380	3	156	25	303	121	41
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1900	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	90	647	15	15	438	413	3	170	27	329	132	45
Adj No. of Lanes	1	1	0	1	1	1	0	1	0	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	207	734	17	120	754	641	33	721	113	582	858	730
Arrive On Green	0.44	0.44	0.44	0.44	0.44	0.44	0.50	0.50	0.50	0.50	0.50	0.50
Sat Flow, veh/h	598	1681	39	714	1727	1468	5	1451	227	1095	1727	1468
Grp Volume(v), veh/h	90	0	662	15	438	413	200	0	0	329	132	45
Grp Sat Flow(s),veh/h/ln	598	0	1720	714	1727	1468	1684	0	0	1095	1727	1468
Q Serve(g_s), s	16.0	0.0	42.3	2.4	23.0	26.5	0.0	0.0	0.0	21.2	5.0	1.9
Cycle Q Clear(g_c), s	39.0	0.0	42.3	44.7	23.0	26.5	8.1	0.0	0.0	29.3	5.0	1.9
Prop In Lane	1.00		0.02	1.00		1.00	0.01		0.13	1.00		1.00
Lane Grp Cap(c), veh/h	207	0	751	120	754	641	867	0	0	582	858	730
V/C Ratio(X)	0.44	0.00	0.88	0.13	0.58	0.64	0.23	0.00	0.00	0.56	0.15	0.06
Avail Cap(c_a), veh/h	235	0	832	153	835	710	867	0	0	582	858	730
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.86	0.00	0.86	1.00	1.00	1.00	0.92	0.00	0.00	0.09	0.09	0.09
Uniform Delay (d), s/veh	40.3	0.0	31.0	51.4	25.5	26.5	17.2	0.0	0.0	23.3	16.4	15.7
Incr Delay (d2), s/veh	1.2	0.0	9.0	0.5	0.8	1.7	0.6	0.0	0.0	0.4	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.7	0.0	21.9	0.5	11.1	11.0	3.9	0.0	0.0	8.2	2.4	0.8
LnGrp Delay(d),s/veh	41.5	0.0	39.9	51.9	26.4	28.3	17.8	0.0	0.0	23.6	16.5	15.7
LnGrp LOS	D		D	D	C	C	B			C	B	B
Approach Vol, veh/h		752			866			200			506	
Approach Delay, s/veh		40.1			27.7			17.8			21.1	
Approach LOS		D			C			B			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Phs Duration (G+Y+Rc), s		63.6		56.4		63.6		56.4
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green Setting (Gmax), s		54.0		58.0		54.0		58.0
Max Q Clear Time (g_c+I1), s		10.1		44.3		31.3		46.7
Green Ext Time (p_c), s		3.2		6.4		3.0		5.7

Intersection Summary	
HCM 2010 Ctrl Delay	29.4
HCM 2010 LOS	C

Intersection	
Int Delay, s/veh	2.3

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	0	561	248	0	83	18
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	19	19	19	19	10	10
Mvmt Flow	0	610	270	0	90	20

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	270	0	-	0	880	270
Stage 1	-	-	-	-	270	-
Stage 2	-	-	-	-	610	-
Critical Hdwy	4.29	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.371	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1201	-	-	-	308	750
Stage 1	-	-	-	-	757	-
Stage 2	-	-	-	-	527	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1201	-	-	-	308	750
Mov Cap-2 Maneuver	-	-	-	-	308	-
Stage 1	-	-	-	-	757	-
Stage 2	-	-	-	-	527	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	20.3
HCM LOS			C

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1201	-	-	-	344
HCM Lane V/C Ratio	-	-	-	-	0.319
HCM Control Delay (s)	0	-	-	-	20.3
HCM Lane LOS	A	-	-	-	C
HCM 95th %tile Q(veh)	0	-	-	-	1.3

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	WBT	WBR	SEL	SER
Vol, veh/h	0	732	0	40	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	19	19	19	19	10	10
Mvmt Flow	0	796	0	43	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	43	0	-	0	818	22
Stage 1	-	-	-	-	22	-
Stage 2	-	-	-	-	796	-
Critical Hdwy	4.29	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.371	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1463	-	-	-	335	1032
Stage 1	-	-	-	-	980	-
Stage 2	-	-	-	-	431	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1463	-	-	-	335	1032
Mov Cap-2 Maneuver	-	-	-	-	335	-
Stage 1	-	-	-	-	980	-
Stage 2	-	-	-	-	431	-

Approach	EB	WB	SE
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SELn1
Capacity (veh/h)	1463	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	-	-	0
HCM Lane LOS	A	-	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	-

Intersection	
Int Delay, s/veh	2.8

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	83	528	0	3	252	65	0	3	5	41	4	31
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	492	-	-	499	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	22	22	22	22	22	22	10	10	10	10	10	10
Mvmt Flow	90	574	0	3	274	71	0	3	5	45	4	34

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	345	0	0	574	0	0	1089	1105	574	1075	1070	309
Stage 1	-	-	-	-	-	-	754	754	-	316	316	-
Stage 2	-	-	-	-	-	-	335	351	-	759	754	-
Critical Hdwy	4.32	-	-	4.32	-	-	7.2	6.6	6.3	7.2	6.6	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Follow-up Hdwy	2.398	-	-	2.398	-	-	3.59	4.09	3.39	3.59	4.09	3.39
Pot Cap-1 Maneuver	1111	-	-	907	-	-	186	204	503	190	214	713
Stage 1	-	-	-	-	-	-	389	406	-	678	641	-
Stage 2	-	-	-	-	-	-	662	618	-	387	406	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1111	-	-	907	-	-	163	187	503	174	196	713
Mov Cap-2 Maneuver	-	-	-	-	-	-	163	187	-	174	196	-
Stage 1	-	-	-	-	-	-	357	373	-	623	639	-
Stage 2	-	-	-	-	-	-	624	616	-	349	373	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	1.2	0.1	17	25.9
HCM LOS			C	D

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	308	1111	-	-	907	-	-	254
HCM Lane V/C Ratio	0.028	0.081	-	-	0.004	-	-	0.325
HCM Control Delay (s)	17	8.5	-	-	9	-	-	25.9
HCM Lane LOS	C	A	-	-	A	-	-	D
HCM 95th %tile Q(veh)	0.1	0.3	-	-	0	-	-	1.4

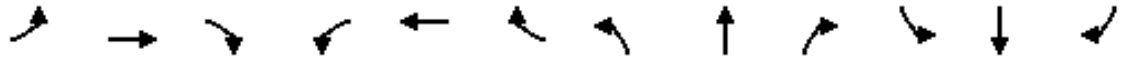
Intersection	
Int Delay, s/veh	6.1

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	37	947	452	94	72	14
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	104	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	23	23	23	23	10	10
Mvmt Flow	40	1029	491	102	78	15

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	593	0	-	0	1652	542
Stage 1	-	-	-	-	542	-
Stage 2	-	-	-	-	1110	-
Critical Hdwy	4.33	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.407	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	888	-	-	-	104	525
Stage 1	-	-	-	-	567	-
Stage 2	-	-	-	-	304	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	888	-	-	-	99	525
Mov Cap-2 Maneuver	-	-	-	-	99	-
Stage 1	-	-	-	-	567	-
Stage 2	-	-	-	-	290	-

Approach	EB	WB	SB
HCM Control Delay, s	0.3	0	111.4
HCM LOS			F

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	888	-	-	-	114
HCM Lane V/C Ratio	0.045	-	-	-	0.82
HCM Control Delay (s)	9.2	-	-	-	111.4
HCM Lane LOS	A	-	-	-	F
HCM 95th %tile Q(veh)	0.1	-	-	-	4.8



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	106	683	16	9	275	53	18	60	8	58	53	53
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1624	1624	1900	1624	1624	1624	1900	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	115	742	17	10	299	58	20	65	9	63	58	58
Adj No. of Lanes	1	1	0	1	1	1	0	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	17	17	17	17	17	17	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	333	984	23	161	830	706	77	181	22	116	82	69
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.22	0.62	0.62	0.10	0.51	0.51	0.14	0.14	0.14	0.14	0.14	0.14
Ln Grp Delay, s/veh	30.6	0.0	17.3	36.5	14.4	11.5	35.9	0.0	0.0	40.4	0.0	0.0
Ln Grp LOS	C		B	D	B	B	D			D		
Approach Vol, veh/h		874			367			94			179	
Approach Delay, s/veh		19.1			14.5			35.9			40.4	
Approach LOS		B			B			D			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2	4	3		6	8	7
Case No		8.0	4.0	2.0		8.0	3.0	2.0
Phs Duration (G+Y+Rc), s		16.6	60.0	13.4		16.6	50.0	23.4
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0	4.0	4.0
Max Green (Gmax), s		18.0	56.0	4.0		18.0	46.0	14.0
Max Allow Headway (MAH), s		4.2	4.0	4.1		4.2	4.1	4.1
Max Q Clear (g_c+I1), s		6.5	32.1	2.5		12.2	11.9	7.7
Green Ext Time (g_e), s		0.7	3.3	0.0		0.5	1.3	0.2
Prob of Phs Call (p_c)		1.00	1.00	0.22		1.00	1.00	0.94
Prob of Max Out (p_x)		0.01	0.00	1.00		0.38	0.00	0.15

Left-Turn Movement Data								
Assigned Mvmt		5		3		1		7
Mvmt Sat Flow, veh/h		200		1547		443		1547

Through Movement Data								
Assigned Mvmt		2	4			6	8	
Mvmt Sat Flow, veh/h		1287	1581			585	1624	

Right-Turn Movement Data								
Assigned Mvmt		12	14			16	18	
Mvmt Sat Flow, veh/h		157	36			493	1380	

Left Lane Group Data								
Assigned Mvmt	0	5	0	3	0	1	0	7
Lane Assignment		L+T+R		(Prot)		L+T+R		(Prot)
Lanes in Grp	0	1	0	1	0	1	0	1

Grp Vol (v), veh/h	0	94	0	10	0	179	0	115
Grp Sat Flow (s), veh/h/ln	0	1644	0	1547	0	1520	0	1547
Q Serve Time (g_s), s	0.0	0.0	0.0	0.5	0.0	5.6	0.0	5.7
Cycle Q Clear Time (g_c), s	0.0	4.5	0.0	0.5	0.0	10.2	0.0	5.7
Perm LT Sat Flow (s_l), veh/h/ln	0	1296	0	0	0	1347	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	1633	0	0	0	1697	0	0
Perm LT Eff Green (g_p), s	0.0	12.6	0.0	0.0	0.0	12.6	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	2.5	0.0	0.0	0.0	8.1	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	5.6	0.0	0.0
Time to First Blk (g_f), s	0.0	5.2	0.0	0.0	0.0	2.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	4.5	0.0	0.0	0.0	2.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.21	0.00	1.00	0.00	0.35	0.00	1.00
Lane Grp Cap (c), veh/h	0	279	0	161	0	268	0	333
V/C Ratio (X)	0.00	0.34	0.00	0.06	0.00	0.67	0.00	0.35
Avail Cap (c_a), veh/h	0	372	0	161	0	353	0	333
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	0.99	0.00	1.00
Uniform Delay (d1), s/veh	0.0	35.2	0.0	36.4	0.0	37.4	0.0	29.9
Incr Delay (d2), s/veh	0.0	0.7	0.0	0.2	0.0	3.0	0.0	0.6
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	35.9	0.0	36.5	0.0	40.4	0.0	30.6
1st-Term Q (Q1), veh/ln	0.0	2.1	0.0	0.2	0.0	4.3	0.0	2.4
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	2.2	0.0	0.2	0.0	4.5	0.0	2.5
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.02	0.00	0.01	0.00	0.16
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	0	6	8	0
Lane Assignment							T	
Lanes in Grp	0	0	0	0	0	0	1	0
Grp Vol (v), veh/h	0	0	0	0	0	0	299	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	1624	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	9.9	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	9.9	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	830	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	0	830	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	13.2	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	14.4	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	4.7	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	14	0	0	16	18	0
Lane Assignment			T+R				R	
Lanes in Grp	0	0	1	0	0	0	1	0
Grp Vol (v), veh/h	0	0	759	0	0	0	58	0
Grp Sat Flow (s), veh/h/ln	0	0	1618	0	0	0	1380	0
Q Serve Time (g_s), s	0.0	0.0	30.1	0.0	0.0	0.0	1.9	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	30.1	0.0	0.0	0.0	1.9	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.10	0.02	0.00	0.00	0.32	1.00	0.00
Lane Grp Cap (c), veh/h	0	0	1006	0	0	0	706	0
V/C Ratio (X)	0.00	0.00	0.75	0.00	0.00	0.00	0.08	0.00
Avail Cap (c_a), veh/h	0	0	1006	0	0	0	706	0
Upstream Filter (I)	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	12.1	0.0	0.0	0.0	11.2	0.0
Incr Delay (d2), s/veh	0.0	0.0	5.2	0.0	0.0	0.0	0.2	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	17.3	0.0	0.0	0.0	11.5	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	13.3	0.0	0.0	0.0	0.7	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	14.7	0.0	0.0	0.0	0.8	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.08	0.00	0.00	0.00	0.04	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	21.5
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	106	683	16	9	275	53	18	60	8	58	53	53
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1624	1624	1900	1624	1624	1624	1900	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	115	742	17	10	299	58	20	65	9	63	58	58
Adj No. of Lanes	1	1	0	1	1	1	0	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	17	17	17	17	17	17	10	10	10	10	10	10
Cap, veh/h	333	984	23	161	830	706	77	181	22	116	82	69
Arrive On Green	0.22	0.62	0.62	0.10	0.51	0.51	0.14	0.14	0.14	0.14	0.14	0.14
Sat Flow, veh/h	1547	1581	36	1547	1624	1380	200	1287	157	443	585	493
Grp Volume(v), veh/h	115	0	759	10	299	58	94	0	0	179	0	0
Grp Sat Flow(s),veh/h/ln	1547	0	1618	1547	1624	1380	1644	0	0	1520	0	0
Q Serve(g_s), s	5.7	0.0	30.1	0.5	9.9	1.9	0.0	0.0	0.0	5.6	0.0	0.0
Cycle Q Clear(g_c), s	5.7	0.0	30.1	0.5	9.9	1.9	4.5	0.0	0.0	10.2	0.0	0.0
Prop In Lane	1.00		0.02	1.00		1.00	0.21		0.10	0.35		0.32
Lane Grp Cap(c), veh/h	333	0	1006	161	830	706	279	0	0	268	0	0
V/C Ratio(X)	0.35	0.00	0.75	0.06	0.36	0.08	0.34	0.00	0.00	0.67	0.00	0.00
Avail Cap(c_a), veh/h	333	0	1006	161	830	706	372	0	0	353	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	0.99	0.00	0.00
Uniform Delay (d), s/veh	29.9	0.0	12.1	36.4	13.2	11.2	35.2	0.0	0.0	37.4	0.0	0.0
Incr Delay (d2), s/veh	0.6	0.0	5.2	0.2	1.2	0.2	0.7	0.0	0.0	3.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.5	0.0	14.7	0.2	4.7	0.8	2.2	0.0	0.0	4.5	0.0	0.0
LnGrp Delay(d),s/veh	30.6	0.0	17.3	36.5	14.4	11.5	35.9	0.0	0.0	40.4	0.0	0.0
LnGrp LOS	C		B	D	B	B	D			D		
Approach Vol, veh/h		874			367			94			179	
Approach Delay, s/veh		19.1			14.5			35.9			40.4	
Approach LOS		B			B			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6	7	8
Phs Duration (G+Y+Rc), s		16.6	13.4	60.0		16.6	23.4	50.0
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0	4.0	4.0
Max Green Setting (Gmax), s		18.0	4.0	56.0		18.0	14.0	46.0
Max Q Clear Time (g_c+I1), s		6.5	2.5	32.1		12.2	7.7	11.9
Green Ext Time (p_c), s		0.7	0.0	3.3		0.5	0.2	1.3

Intersection Summary	
HCM 2010 Ctrl Delay	21.5
HCM 2010 LOS	C

Intersection	
Intersection Delay, s/veh	11.2
Intersection LOS	B

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Vol, veh/h	0	10	95	0	0	37	37	12	0	0	197	201	0	12	44	10
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	15	15	15	10	15	15	15	10	10	10	10	10	10	10	10
Mvmt Flow	0	11	103	0	0	40	40	13	0	0	214	218	0	13	48	11
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	9.7	9.5	12.4	8.7
HCM LOS	A	A	B	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	10%	43%	18%
Vol Thru, %	49%	90%	43%	67%
Vol Right, %	51%	0%	14%	15%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	398	105	86	66
LT Vol	0	10	37	12
Through Vol	197	95	37	44
RT Vol	201	0	12	10
Lane Flow Rate	433	114	93	72
Geometry Grp	1	1	1	1
Degree of Util (X)	0.532	0.173	0.142	0.101
Departure Headway (Hd)	4.424	5.464	5.482	5.075
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	813	651	649	701
Service Time	2.467	3.546	3.565	3.146
HCM Lane V/C Ratio	0.533	0.175	0.143	0.103
HCM Control Delay	12.4	9.7	9.5	8.7
HCM Lane LOS	B	A	A	A
HCM 95th-tile Q	3.2	0.6	0.5	0.3

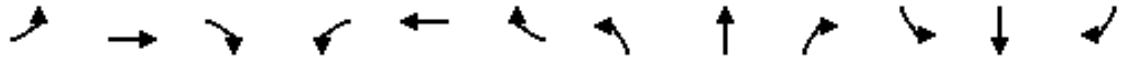
Intersection	
Int Delay, s/veh	0.9

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	18	260	90	28	14	7
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	15	15	15	15	10	10
Mvmt Flow	20	283	98	30	15	8

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	128	0	-	0	435	113
Stage 1	-	-	-	-	113	-
Stage 2	-	-	-	-	322	-
Critical Hdwy	4.25	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.335	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1381	-	-	-	564	919
Stage 1	-	-	-	-	892	-
Stage 2	-	-	-	-	717	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1381	-	-	-	554	919
Mov Cap-2 Maneuver	-	-	-	-	554	-
Stage 1	-	-	-	-	892	-
Stage 2	-	-	-	-	705	-

Approach	EB	WB	SB
HCM Control Delay, s	0.5	0	10.8
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1381	-	-	-	639
HCM Lane V/C Ratio	0.014	-	-	-	0.036
HCM Control Delay (s)	7.6	0	-	-	10.8
HCM Lane LOS	A	A	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0.1



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	204	1964	124	636	750	44	742	846	299	1048	2716	141
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	222	2135	135	691	815	48	807	920	325	1139	2952	153
Adj No. of Lanes	2	2	1	2	3	0	2	3	0	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	278	1067	477	319	1539	90	372	985	347	497	1533	477
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.09	0.32	0.32	0.10	0.34	0.34	0.12	0.29	0.29	0.16	0.33	0.33
Ln Grp Delay, s/veh	62.3	494.6	16.3	588.6	32.5	33.0	586.5	58.5	70.2	633.2	457.5	30.7
Ln Grp LOS	E	F	B	F	C	C	F	E	E	F	F	C
Approach Vol, veh/h		2492			1554			2052			4244	
Approach Delay, s/veh		430.2			279.9			268.5			489.3	
Approach LOS		F			F			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	5	6	7	8
Case No	4.0	2.0	3.0	2.0	2.0	3.0	2.0	4.0
Phs Duration (G+Y+Rc), s	38.3	22.7	43.0	16.0	18.0	43.0	14.5	44.5
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	35.0	18.0	39.0	12.0	14.0	39.0	14.0	37.0
Max Allow Headway (MAH), s	4.1	4.1	4.0	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	33.3	20.7	41.0	14.0	16.0	41.0	10.2	19.4
Green Ext Time (g_e), s	1.0	0.0	0.0	0.0	0.0	0.0	0.3	6.6
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prob of Max Out (p_x)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.20

Left-Turn Movement Data								
Assigned Mvmt		1		3	5		7	
Mvmt Sat Flow, veh/h		3191		3191	3191		3191	

Through Movement Data								
Assigned Mvmt	2		4			6		8
Mvmt Sat Flow, veh/h	3443		3282			4715		4556

Right-Turn Movement Data								
Assigned Mvmt	12		14			16		18
Mvmt Sat Flow, veh/h	1213		1468			1468		267

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	5	0	7	0
Lane Assignment		(Prot)		(Prot)	(Prot)		(Prot)	
Lanes in Grp	0	2	0	2	2	0	2	0

Grp Vol (v), veh/h	0	1139	0	691	807	0	222	0
Grp Sat Flow (s), veh/h/ln	0	1596	0	1596	1596	0	1596	0
Q Serve Time (g_s), s	0.0	18.7	0.0	12.0	14.0	0.0	8.2	0.0
Cycle Q Clear Time (g_c), s	0.0	18.7	0.0	12.0	14.0	0.0	8.2	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	497	0	319	372	0	278	0
V/C Ratio (X)	0.00	2.29	0.00	2.17	2.17	0.00	0.80	0.00
Avail Cap (c_a), veh/h	0	497	0	319	372	0	372	0
Upstream Filter (I)	0.00	0.09	0.00	1.00	0.93	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	50.7	0.0	54.0	53.0	0.0	53.7	0.0
Incr Delay (d2), s/veh	0.0	582.6	0.0	534.6	533.5	0.0	8.5	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	633.2	0.0	588.6	586.5	0.0	62.3	0.0
1st-Term Q (Q1), veh/ln	0.0	8.2	0.0	5.3	6.2	0.0	3.6	0.0
2nd-Term Q (Q2), veh/ln	0.0	40.2	0.0	23.7	27.6	0.0	0.3	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	48.4	0.0	29.0	33.7	0.0	3.9	0.0
%ile Storage Ratio (RQ%)	0.00	6.84	0.00	4.07	5.03	0.00	0.56	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	160.6	0.0	93.0	108.7	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.6	0.0	0.5	0.5	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	0	6	0	8
Lane Assignment	T		T			T		T
Lanes in Grp	2	0	2	0	0	3	0	2
Grp Vol (v), veh/h	840	0	2135	0	0	2952	0	562
Grp Sat Flow (s), veh/h/ln	1572	0	1641	0	0	1572	0	1572
Q Serve Time (g_s), s	31.2	0.0	39.0	0.0	0.0	39.0	0.0	17.3
Cycle Q Clear Time (g_c), s	31.2	0.0	39.0	0.0	0.0	39.0	0.0	17.3
Lane Grp Cap (c), veh/h	899	0	1067	0	0	1533	0	1062
V/C Ratio (X)	0.93	0.00	2.00	0.00	0.00	1.93	0.00	0.53
Avail Cap (c_a), veh/h	917	0	1067	0	0	1533	0	1062
Upstream Filter (I)	0.93	0.00	1.00	0.00	0.00	0.09	0.00	1.00
Uniform Delay (d1), s/veh	41.7	0.0	40.5	0.0	0.0	40.5	0.0	32.0
Incr Delay (d2), s/veh	16.7	0.0	454.1	0.0	0.0	417.0	0.0	0.5
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	58.5	0.0	494.6	0.0	0.0	457.5	0.0	32.5
1st-Term Q (Q1), veh/ln	13.5	0.0	17.6	0.0	0.0	16.9	0.0	7.5
2nd-Term Q (Q2), veh/ln	2.1	0.0	67.3	0.0	0.0	59.2	0.0	0.1

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	15.6	0.0	84.9	0.0	0.0	76.1	0.0	7.6
%ile Storage Ratio (RQ%)	0.02	0.00	0.44	0.00	0.00	0.20	0.00	0.04
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	267.1	0.0	0.0	354.9	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.5	0.0	0.0	0.5	0.0	0.0

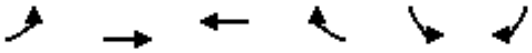
Right Lane Group Data								
Assigned Mvmt	12	0	14	0	0	16	0	18
Lane Assignment	T+R		R			R		T+R
Lanes in Grp	1	0	1	0	0	1	0	1
Grp Vol (v), veh/h	405	0	135	0	0	153	0	301
Grp Sat Flow (s), veh/h/ln	1513	0	1468	0	0	1468	0	1680
Q Serve Time (g_s), s	31.3	0.0	6.0	0.0	0.0	9.4	0.0	17.4
Cycle Q Clear Time (g_c), s	31.3	0.0	6.0	0.0	0.0	9.4	0.0	17.4
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.80	0.00	1.00	0.00	0.00	1.00	0.00	0.16
Lane Grp Cap (c), veh/h	433	0	477	0	0	477	0	567
V/C Ratio (X)	0.94	0.00	0.28	0.00	0.00	0.32	0.00	0.53
Avail Cap (c_a), veh/h	441	0	477	0	0	477	0	567
Upstream Filter (I)	0.93	0.00	1.00	0.00	0.00	0.09	0.00	1.00
Uniform Delay (d1), s/veh	41.8	0.0	16.0	0.0	0.0	30.5	0.0	32.1
Incr Delay (d2), s/veh	28.4	0.0	0.3	0.0	0.0	0.2	0.0	0.9
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	70.2	0.0	16.3	0.0	0.0	30.7	0.0	33.0
1st-Term Q (Q1), veh/ln	13.1	0.0	2.4	0.0	0.0	3.8	0.0	8.0
2nd-Term Q (Q2), veh/ln	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	16.5	0.0	2.4	0.0	0.0	3.8	0.0	8.2
%ile Storage Ratio (RQ%)	0.02	0.00	0.33	0.00	0.00	0.01	0.00	0.04
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	399.8
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	204	1964	124	636	750	44	742	846	299	1048	2716	141
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	222	2135	135	691	815	48	807	920	325	1139	2952	153
Adj No. of Lanes	2	2	1	2	3	0	2	3	0	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	278	1067	477	319	1539	90	372	985	347	497	1533	477
Arrive On Green	0.09	0.32	0.32	0.10	0.34	0.34	0.12	0.29	0.29	0.16	0.33	0.33
Sat Flow, veh/h	3191	3282	1468	3191	4556	267	3191	3443	1213	3191	4715	1468
Grp Volume(v), veh/h	222	2135	135	691	562	301	807	840	405	1139	2952	153
Grp Sat Flow(s),veh/h/ln	1596	1641	1468	1596	1572	1680	1596	1572	1513	1596	1572	1468
Q Serve(g_s), s	8.2	39.0	6.0	12.0	17.3	17.4	14.0	31.2	31.3	18.7	39.0	9.4
Cycle Q Clear(g_c), s	8.2	39.0	6.0	12.0	17.3	17.4	14.0	31.2	31.3	18.7	39.0	9.4
Prop In Lane	1.00		1.00	1.00		0.16	1.00		0.80	1.00		1.00
Lane Grp Cap(c), veh/h	278	1067	477	319	1062	567	372	899	433	497	1533	477
V/C Ratio(X)	0.80	2.00	0.28	2.17	0.53	0.53	2.17	0.93	0.94	2.29	1.93	0.32
Avail Cap(c_a), veh/h	372	1067	477	319	1062	567	372	917	441	497	1533	477
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	0.93	0.93	0.93	0.09	0.09	0.09
Uniform Delay (d), s/veh	53.7	40.5	16.0	54.0	32.0	32.1	53.0	41.7	41.8	50.7	40.5	30.5
Incr Delay (d2), s/veh	8.5	454.1	0.3	534.6	0.5	0.9	533.5	16.7	28.4	582.6	417.0	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.9	84.9	2.4	29.0	7.6	8.2	33.7	15.6	16.5	48.4	76.1	3.8
LnGrp Delay(d),s/veh	62.3	494.6	16.3	588.6	32.5	33.0	586.5	58.5	70.2	633.2	457.5	30.7
LnGrp LOS	E	F	B	F	C	C	F	E	E	F	F	C
Approach Vol, veh/h		2492			1554			2052			4244	
Approach Delay, s/veh		430.2			279.9			268.5			489.3	
Approach LOS		F			F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	22.7	38.3	16.0	43.0	18.0	43.0	14.5	44.5
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	18.0	35.0	12.0	39.0	14.0	39.0	14.0	37.0
Max Q Clear Time (g_c+I1), s	20.7	33.3	14.0	41.0	16.0	41.0	10.2	19.4
Green Ext Time (p_c), s	0.0	1.0	0.0	0.0	0.0	0.0	0.3	6.6

Intersection Summary		
HCM 2010 Ctrl Delay	399.8	
HCM 2010 LOS	F	



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (veh/h)	44	744	294	161	281	56
Number	7	4	8	18	1	16
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00			1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	48	809	320	175	305	61
Adj No. of Lanes	2	2	2	1	2	2
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Opposing Right Turn Influence	Yes				Yes	
Cap, veh/h	1383	2561	2561	1146	418	338
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.78	0.78	0.78	0.78	0.13	0.13
Ln Grp Delay, s/veh	2.8	3.2	2.5	2.7	40.1	35.1
Ln Grp LOS	A	A	A	A	D	D
Approach Vol, veh/h		857	495		366	
Approach Delay, s/veh		3.2	2.6		39.2	
Approach LOS		A	A		D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	6			4				8
Case No	9.0			6.0				7.0
Phs Duration (G+Y+Rc), s	15.8			74.2				74.2
Change Period (Y+Rc), s	4.0			4.0				4.0
Max Green (Gmax), s	34.0			48.0				48.0
Max Allow Headway (MAH), s	4.2			4.1				4.1
Max Q Clear (g_c+I1), s	10.3			8.5				4.7
Green Ext Time (g_e), s	1.5			7.1				7.1
Prob of Phs Call (p_c)	1.00			1.00				1.00
Prob of Max Out (p_x)	0.00			0.00				0.00

Left-Turn Movement Data								
Assigned Mvmt	1			7				3
Mvmt Sat Flow, veh/h	3191			1616				0

Through Movement Data								
Assigned Mvmt	6			4				8
Mvmt Sat Flow, veh/h	0			3368				3368

Right-Turn Movement Data								
Assigned Mvmt	16			14				18
Mvmt Sat Flow, veh/h	2584			0				1468

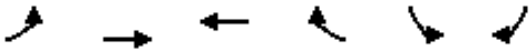
Left Lane Group Data								
Assigned Mvmt	1	0	0	7	0	0	0	3
Lane Assignment								
Lanes in Grp	2	0	0	2	0	0	0	0

Grp Vol (v), veh/h	305	0	0	48	0	0	0	0
Grp Sat Flow (s), veh/h/ln	1596	0	0	808	0	0	0	0
Q Serve Time (g_s), s	8.3	0.0	0.0	0.7	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	8.3	0.0	0.0	2.8	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	1596	0	0	808	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	70.2	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	68.1	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.2
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	418	0	0	1383	0	0	0	0
V/C Ratio (X)	0.73	0.00	0.00	0.03	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	1206	0	0	1383	0	0	0	0
Upstream Filter (I)	1.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	37.6	0.0	0.0	2.7	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	40.1	0.0	0.0	2.8	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	3.6	0.0	0.0	0.1	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	3.8	0.0	0.0	0.2	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.51	0.00	0.00	0.01	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	6	0	0	4	0	0	0	8
Lane Assignment				T				T
Lanes in Grp	0	0	0	2	0	0	0	2
Grp Vol (v), veh/h	0	0	0	809	0	0	0	320
Grp Sat Flow (s), veh/h/ln	0	0	0	1641	0	0	0	1641
Q Serve Time (g_s), s	0.0	0.0	0.0	6.5	0.0	0.0	0.0	2.1
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	6.5	0.0	0.0	0.0	2.1
Lane Grp Cap (c), veh/h	0	0	0	2561	0	0	0	2561
V/C Ratio (X)	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.12
Avail Cap (c_a), veh/h	0	0	0	2561	0	0	0	2561
Upstream Filter (I)	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.87
Uniform Delay (d1), s/veh	0.0	0.0	0.0	2.9	0.0	0.0	0.0	2.4
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	3.2	0.0	0.0	0.0	2.5
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.9
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	2.9	0.0	0.0	0.0	1.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	16	0	0	14	0	0	0	18
Lane Assignment	R							R
Lanes in Grp	2	0	0	0	0	0	0	1
Grp Vol (v), veh/h	61	0	0	0	0	0	0	175
Grp Sat Flow (s), veh/h/ln	1292	0	0	0	0	0	0	1468
Q Serve Time (g_s), s	1.9	0.0	0.0	0.0	0.0	0.0	0.0	2.7
Cycle Q Clear Time (g_c), s	1.9	0.0	0.0	0.0	0.0	0.0	0.0	2.7
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	338	0	0	0	0	0	0	1146
V/C Ratio (X)	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.15
Avail Cap (c_a), veh/h	976	0	0	0	0	0	0	1146
Upstream Filter (I)	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.87
Uniform Delay (d1), s/veh	34.8	0.0	0.0	0.0	0.0	0.0	0.0	2.5
Incr Delay (d2), s/veh	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	35.1	0.0	0.0	0.0	0.0	0.0	0.0	2.7
1st-Term Q (Q1), veh/ln	0.7	0.0	0.0	0.0	0.0	0.0	0.0	1.1
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.7	0.0	0.0	0.0	0.0	0.0	0.0	1.1
%ile Storage Ratio (RQ%)	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.16
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	10.7
HCM 2010 LOS	B



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (veh/h)	44	744	294	161	281	56
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	48	809	320	175	305	61
Adj No. of Lanes	2	2	2	1	2	2
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Cap, veh/h	1383	2561	2561	1146	418	338
Arrive On Green	0.78	0.78	0.78	0.78	0.13	0.13
Sat Flow, veh/h	1616	3368	3368	1468	3191	2584
Grp Volume(v), veh/h	48	809	320	175	305	61
Grp Sat Flow(s),veh/h/ln	808	1641	1641	1468	1596	1292
Q Serve(g_s), s	0.7	6.5	2.1	2.7	8.3	1.9
Cycle Q Clear(g_c), s	2.8	6.5	2.1	2.7	8.3	1.9
Prop In Lane	1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	1383	2561	2561	1146	418	338
V/C Ratio(X)	0.03	0.32	0.12	0.15	0.73	0.18
Avail Cap(c_a), veh/h	1383	2561	2561	1146	1206	976
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.95	0.95	0.87	0.87	1.00	1.00
Uniform Delay (d), s/veh	2.7	2.9	2.4	2.5	37.6	34.8
Incr Delay (d2), s/veh	0.0	0.3	0.1	0.2	2.5	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	2.9	1.0	1.1	3.8	0.7
LnGrp Delay(d),s/veh	2.8	3.2	2.5	2.7	40.1	35.1
LnGrp LOS	A	A	A	A	D	D
Approach Vol, veh/h		857	495		366	
Approach Delay, s/veh		3.2	2.6		39.2	
Approach LOS		A	A		D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		8
Phs Duration (G+Y+Rc), s				74.2		15.8		74.2
Change Period (Y+Rc), s				4.0		4.0		4.0
Max Green Setting (Gmax), s				48.0		34.0		48.0
Max Q Clear Time (g_c+I1), s				8.5		10.3		4.7
Green Ext Time (p_c), s				7.1		1.5		7.1

Intersection Summary	
HCM 2010 Ctrl Delay	10.7
HCM 2010 LOS	B

Intersection	
Int Delay, s/veh	35.9

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	1069	31	28	374	139	133
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	0	-	0	-
Veh in Median Storage, #	0	-	-	0	1	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	1162	34	30	407	151	145

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	1196	0	1646	1179
Stage 1	-	-	-	-	1179	-
Stage 2	-	-	-	-	467	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	556	-	~ 105	223
Stage 1	-	-	-	-	282	-
Stage 2	-	-	-	-	615	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	556	-	~ 99	223
Mov Cap-2 Maneuver	-	-	-	-	212	-
Stage 1	-	-	-	-	282	-
Stage 2	-	-	-	-	582	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0.8	232.8
HCM LOS			F

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	217	-	-	556	-
HCM Lane V/C Ratio	1.362	-	-	0.055	-
HCM Control Delay (s)	232.8	-	-	11.8	-
HCM Lane LOS	F	-	-	B	-
HCM 95th %tile Q(veh)	16.5	-	-	0.2	-

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Intersection	
Int Delay, s/veh	1.5

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	48	27	457	74	4	412
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	52	29	497	80	4	448

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	994	537	0	0	577	0
Stage 1	537	-	-	-	-	-
Stage 2	457	-	-	-	-	-
Critical Hdwy	6.5	6.3	-	-	4.2	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	-	-	2.29	-
Pot Cap-1 Maneuver	263	529	-	-	958	-
Stage 1	570	-	-	-	-	-
Stage 2	621	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	261	529	-	-	958	-
Mov Cap-2 Maneuver	261	-	-	-	-	-
Stage 1	570	-	-	-	-	-
Stage 2	617	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	20.1	0	0.1
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	319	958	-
HCM Lane V/C Ratio	-	-	0.256	0.005	-
HCM Control Delay (s)	-	-	20.1	8.8	0
HCM Lane LOS	-	-	C	A	A
HCM 95th %tile Q(veh)	-	-	1	0	-

Intersection	
Int Delay, s/veh	1.4

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	65	552	119	6	24	14
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	71	600	129	7	26	15

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	136	0	-	0	874	133
Stage 1	-	-	-	-	133	-
Stage 2	-	-	-	-	741	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1400	-	-	-	310	895
Stage 1	-	-	-	-	874	-
Stage 2	-	-	-	-	457	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1400	-	-	-	286	895
Mov Cap-2 Maneuver	-	-	-	-	286	-
Stage 1	-	-	-	-	874	-
Stage 2	-	-	-	-	422	-

Approach	EB	WB	SB
HCM Control Delay, s	0.8	0	15.6
HCM LOS			C

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1400	-	-	-	382
HCM Lane V/C Ratio	0.05	-	-	-	0.108
HCM Control Delay (s)	7.7	0	-	-	15.6
HCM Lane LOS	A	A	-	-	C
HCM 95th %tile Q(veh)	0.2	-	-	-	0.4

Intersection	
Int Delay, s/veh	0.1

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	0	147	538	3	2	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	160	585	3	2	1

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	588	0	-	0	746	586
Stage 1	-	-	-	-	586	-
Stage 2	-	-	-	-	160	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	949	-	-	-	370	496
Stage 1	-	-	-	-	541	-
Stage 2	-	-	-	-	850	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	949	-	-	-	370	496
Mov Cap-2 Maneuver	-	-	-	-	370	-
Stage 1	-	-	-	-	541	-
Stage 2	-	-	-	-	850	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	14
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	949	-	-	-	404
HCM Lane V/C Ratio	-	-	-	-	0.008
HCM Control Delay (s)	0	-	-	-	14
HCM Lane LOS	A	-	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0

Intersection	
Intersection Delay, s/veh	57
Intersection LOS	F

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	42	506	89	0	94	132	46	0	34	241	151
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	46	550	97	0	102	143	50	0	37	262	164
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	1	1	1
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	1	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	1	1
HCM Control Delay	71	29.7	70.4
HCM LOS	F	D	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	8%	7%	35%	41%
Vol Thru, %	57%	79%	49%	52%
Vol Right, %	35%	14%	17%	7%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	426	637	272	215
LT Vol	34	42	94	89
Through Vol	241	506	132	112
RT Vol	151	89	46	14
Lane Flow Rate	463	692	296	234
Geometry Grp	1	1	1	1
Degree of Util (X)	1	1	0.703	0.58
Departure Headway (Hd)	7.801	8.023	8.556	8.939
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	463	457	420	402
Service Time	5.884	6.01	6.643	7.039
HCM Lane V/C Ratio	1	1.514	0.705	0.582
HCM Control Delay	70.4	71	29.7	23.8
HCM Lane LOS	F	F	D	C
HCM 95th-tile Q	13.1	13	5.3	3.5

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	89	112	14
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10
Mvmt Flow	0	97	122	15
Number of Lanes	0	0	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	1
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	23.8
HCM LOS	C

Lane

Intersection	
Int Delay, s/veh	3.4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	2	6	0	124	66	4
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	2	7	0	135	72	4

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	9	0	140	5
Stage 1	-	-	-	-	5	-
Stage 2	-	-	-	-	135	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	1560	-	834	1055
Stage 1	-	-	-	-	998	-
Stage 2	-	-	-	-	872	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1560	-	834	1055
Mov Cap-2 Maneuver	-	-	-	-	834	-
Stage 1	-	-	-	-	998	-
Stage 2	-	-	-	-	872	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	9.7
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	844	-	-	1560	-
HCM Lane V/C Ratio	0.09	-	-	-	-
HCM Control Delay (s)	9.7	-	-	0	-
HCM Lane LOS	A	-	-	A	-
HCM 95th %tile Q(veh)	0.3	-	-	0	-

Intersection	
Int Delay, s/veh	7.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	0	25	11	17	2	30	1	39	105	371	129	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	27	12	18	2	33	1	42	114	403	140	0

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	1066	1106	140	1068	1049	99	140	0	0	157	0	0
Stage 1	947	947	-	102	102	-	-	-	-	-	-	-
Stage 2	119	159	-	966	947	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.2	6.6	6.3	4.2	-	-	4.2	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.59	4.09	3.39	2.29	-	-	2.29	-	-
Pot Cap-1 Maneuver	193	204	887	193	220	935	1395	-	-	1375	-	-
Stage 1	303	329	-	885	795	-	-	-	-	-	-	-
Stage 2	866	751	-	296	329	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	139	139	887	123	150	935	1395	-	-	1375	-	-
Mov Cap-2 Maneuver	139	139	-	123	150	-	-	-	-	-	-	-
Stage 1	303	224	-	884	794	-	-	-	-	-	-	-
Stage 2	833	750	-	175	224	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	29.3	21.8	0.1	6.5
HCM LOS	D	C		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1395	-	-	187	267	1375	-	-
HCM Lane V/C Ratio	0.001	-	-	0.209	0.199	0.293	-	-
HCM Control Delay (s)	7.6	0	-	29.3	21.8	8.7	0	-
HCM Lane LOS	A	A	-	D	C	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.8	0.7	1.2	-	-

Intersection	
Int Delay, s/veh	108.8

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	0	408	41	41	632	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	443	45	45	687	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	89	0	-	0	510	67
Stage 1	-	-	-	-	67	-
Stage 2	-	-	-	-	443	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1457	-	-	-	~ 509	975
Stage 1	-	-	-	-	936	-
Stage 2	-	-	-	-	~ 630	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1457	-	-	-	~ 509	975
Mov Cap-2 Maneuver	-	-	-	-	~ 509	-
Stage 1	-	-	-	-	936	-
Stage 2	-	-	-	-	~ 630	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	193.1
HCM LOS			F

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1457	-	-	-	509
HCM Lane V/C Ratio	-	-	-	-	1.35
HCM Control Delay (s)	0	-	-	-	193.1
HCM Lane LOS	A	-	-	-	F
HCM 95th %tile Q(veh)	0	-	-	-	30.7

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Intersection	
Intersection Delay, s/veh	55.2
Intersection LOS	F

Movement	EBU	EBL	EBR	NBU	NBL	NBT	SBU	SBT	SBR
Vol, veh/h	0	208	368	0	185	370	0	221	34
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	226	400	0	201	402	0	240	37
Number of Lanes	0	1	0	0	0	1	0	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	1	1
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	1	1	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	1	0	1
HCM Control Delay	62.6	64.5	18.3
HCM LOS	F	F	C

Lane	NBLn1	EBLn1	SBLn1
Vol Left, %	33%	36%	0%
Vol Thru, %	67%	0%	87%
Vol Right, %	0%	64%	13%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	555	576	255
LT Vol	185	208	0
Through Vol	370	0	221
RT Vol	0	368	34
Lane Flow Rate	603	626	277
Geometry Grp	1	1	1
Degree of Util (X)	1	1	0.546
Departure Headway (Hd)	6.669	6.291	7.087
Convergence, Y/N	Yes	Yes	Yes
Cap	549	582	513
Service Time	4.687	4.309	5.087
HCM Lane V/C Ratio	1.098	1.076	0.54
HCM Control Delay	64.5	62.6	18.3
HCM Lane LOS	F	F	C
HCM 95th-tile Q	14.2	14.6	3.2

Intersection	
Intersection Delay, s/veh	65
Intersection LOS	F

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Vol, veh/h	0	33	397	4	0	82	153	33	0	4	340	254	0	131	184	13
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	36	432	4	0	89	166	36	0	4	370	276	0	142	200	14
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	75.5	37.7	74.3	56.3
HCM LOS	F	E	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	1%	8%	31%	40%
Vol Thru, %	57%	91%	57%	56%
Vol Right, %	42%	1%	12%	4%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	598	434	268	328
LT Vol	4	33	82	131
Through Vol	340	397	153	184
RT Vol	254	4	33	13
Lane Flow Rate	650	472	291	357
Geometry Grp	1	1	1	1
Degree of Util (X)	1	1	0.766	0.908
Departure Headway (Hd)	8.622	8.886	9.471	9.171
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	423	410	382	396
Service Time	6.703	6.966	7.516	7.215
HCM Lane V/C Ratio	1.537	1.151	0.762	0.902
HCM Control Delay	74.3	75.5	37.7	56.3
HCM Lane LOS	F	F	E	F
HCM 95th-tile Q	12.5	12.3	6.3	9.5

Intersection	
Int Delay, s/veh	0.9

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	53	0	0	198	88	509
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	58	0	0	215	96	553

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	587	372	649	0	-	0
Stage 1	372	-	-	-	-	-
Stage 2	215	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	459	656	900	-	-	-
Stage 1	680	-	-	-	-	-
Stage 2	802	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	459	656	900	-	-	-
Mov Cap-2 Maneuver	459	-	-	-	-	-
Stage 1	680	-	-	-	-	-
Stage 2	802	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	14	0	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	900	-	459	-	-
HCM Lane V/C Ratio	-	-	0.126	-	-
HCM Control Delay (s)	0	-	14	-	-
HCM Lane LOS	A	-	B	-	-
HCM 95th %tile Q(veh)	0	-	0.4	-	-

Intersection	
Int Delay, s/veh	0.4

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	13	1	0	182	275	6
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	14	1	0	198	299	7

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	500	302	305	0	-	0
Stage 1	302	-	-	-	-	-
Stage 2	198	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	516	719	1212	-	-	-
Stage 1	732	-	-	-	-	-
Stage 2	817	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	516	719	1212	-	-	-
Mov Cap-2 Maneuver	516	-	-	-	-	-
Stage 1	732	-	-	-	-	-
Stage 2	817	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	12	0	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1212	-	527	-	-
HCM Lane V/C Ratio	-	-	0.029	-	-
HCM Control Delay (s)	0	-	12	-	-
HCM Lane LOS	A	-	B	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-

Intersection	
Intersection Delay, s/veh	9.4
Intersection LOS	A

Movement	EBU	EBL	EBR	NBU	NBL	NBT	SBU	SBT	SBR
Vol, veh/h	0	260	0	0	8	0	0	0	57
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	283	0	0	9	0	0	0	62
Number of Lanes	0	1	0	0	0	1	0	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	1	1
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	1	1	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	1	0	1
HCM Control Delay	9.8	8.1	7.5
HCM LOS	A	A	A

Lane	NBLn1	EBLn1	SBLn1
Vol Left, %	100%	100%	0%
Vol Thru, %	0%	0%	0%
Vol Right, %	0%	0%	100%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	8	260	57
LT Vol	8	260	0
Through Vol	0	0	0
RT Vol	0	0	57
Lane Flow Rate	9	283	62
Geometry Grp	1	1	1
Degree of Util (X)	0.012	0.345	0.072
Departure Headway (Hd)	5.02	4.393	4.159
Convergence, Y/N	Yes	Yes	Yes
Cap	717	817	867
Service Time	3.024	2.434	2.159
HCM Lane V/C Ratio	0.013	0.346	0.072
HCM Control Delay	8.1	9.8	7.5
HCM Lane LOS	A	A	A
HCM 95th-tile Q	0	1.5	0.2

Intersection	
Int Delay, s/veh	0.1

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	0	2	1	122	218	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	2	1	133	237	3

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	374	239	240	0	-	0
Stage 1	239	-	-	-	-	-
Stage 2	135	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	612	781	1281	-	-	-
Stage 1	782	-	-	-	-	-
Stage 2	872	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	611	781	1281	-	-	-
Mov Cap-2 Maneuver	611	-	-	-	-	-
Stage 1	782	-	-	-	-	-
Stage 2	871	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	9.6	0.1	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1281	-	781	-	-
HCM Lane V/C Ratio	0.001	-	0.003	-	-
HCM Control Delay (s)	7.8	0	9.6	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Intersection	
Int Delay, s/veh	5.7

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	79	17	756	429	56	220
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	86	18	822	466	61	239

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1416	1055	0	0	1288	0
Stage 1	1055	-	-	-	-	-
Stage 2	361	-	-	-	-	-
Critical Hdwy	6.5	6.3	-	-	4.2	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	-	-	2.29	-
Pot Cap-1 Maneuver	145	264	-	-	513	-
Stage 1	323	-	-	-	-	-
Stage 2	688	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	125	264	-	-	513	-
Mov Cap-2 Maneuver	125	-	-	-	-	-
Stage 1	323	-	-	-	-	-
Stage 2	594	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	85.2	0	2.6
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	138	513	-
HCM Lane V/C Ratio	-	-	0.756	0.119	-
HCM Control Delay (s)	-	-	85.2	13	0
HCM Lane LOS	-	-	F	B	A
HCM 95th %tile Q(veh)	-	-	4.5	0.4	-

Intersection	
Int Delay, s/veh	24.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	19	1425	3	24	482	22	0	4	20	40	0	26
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	253	-	-	248	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	21	1549	3	26	524	24	0	4	22	43	0	28

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	548	0	0	1552	0	0	2194	2192	1551	2193	2181	536
Stage 1	-	-	-	-	-	-	1592	1592	-	588	588	-
Stage 2	-	-	-	-	-	-	602	600	-	1605	1593	-
Critical Hdwy	4.2	-	-	4.2	-	-	7.2	6.6	6.3	7.2	6.6	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.59	4.09	3.39	3.59	4.09	3.39
Pot Cap-1 Maneuver	982	-	-	405	-	-	31	43	134	~ 31	44	529
Stage 1	-	-	-	-	-	-	129	160	-	481	483	-
Stage 2	-	-	-	-	-	-	473	477	-	127	160	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	982	-	-	405	-	-	27	39	134	~ 22	40	529
Mov Cap-2 Maneuver	-	-	-	-	-	-	27	39	-	~ 22	40	-
Stage 1	-	-	-	-	-	-	126	157	-	471	452	-
Stage 2	-	-	-	-	-	-	419	446	-	101	157	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.1	0.7	56.7	$ 732.2
HCM LOS			F	F

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	95	982	-	-	405	-	-	35
HCM Lane V/C Ratio	0.275	0.021	-	-	0.064	-	-	2.05
HCM Control Delay (s)	56.7	8.7	-	-	14.5	-	-	$ 732.2
HCM Lane LOS	F	A	-	-	B	-	-	F
HCM 95th %tile Q(veh)	1	0.1	-	-	0.2	-	-	8

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	655	711	8	16	240	1	30	60	45	4	32	305
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	712	773	9	17	261	1	33	65	49	4	35	332
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	752	827	10	237	296	1	41	177	133	7	25	233
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.46	0.49	0.49	0.14	0.17	0.17	0.02	0.19	0.19	0.00	0.17	0.17
Ln Grp Delay, s/veh	41.9	0.0	33.5	34.4	0.0	58.7	75.2	0.0	33.1	104.2	0.0	250.5
Ln Grp LOS	D		C	C		E	E		C	F		F
Approach Vol, veh/h		1494			279			147			371	
Approach Delay, s/veh		37.5			57.2			42.6			248.9	
Approach LOS		D			E			D			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	5	6	7	8
Case No	2.0	4.0	4.0	2.0	2.0	4.0	2.0	4.0
Phs Duration (G+Y+Rc), s	4.4	21.9	48.9	17.3	6.3	20.0	46.3	19.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	4.0	16.0	62.0	4.0	4.0	16.0	48.0	18.0
Max Allow Headway (MAH), s	4.1	4.3	4.0	4.0	4.1	4.3	4.1	4.0
Max Q Clear (g_c+I1), s	2.2	7.7	41.6	2.8	3.8	18.0	40.3	15.7
Green Ext Time (g_e), s	0.0	1.3	3.3	0.1	0.0	0.0	2.0	0.2
Prob of Phs Call (p_c)	0.10	1.00	1.00	0.35	0.57	1.00	1.00	1.00
Prob of Max Out (p_x)	1.00	0.22	0.02	1.00	1.00	1.00	0.39	1.00

Left-Turn Movement Data								
Assigned Mvmt	1			3	5		7	
Mvmt Sat Flow, veh/h	1645			1645	1645		1645	

Through Movement Data								
Assigned Mvmt		2	4			6		8
Mvmt Sat Flow, veh/h		915	1704			142		1720

Right-Turn Movement Data								
Assigned Mvmt		12	14			16		18
Mvmt Sat Flow, veh/h		690	20			1347		7

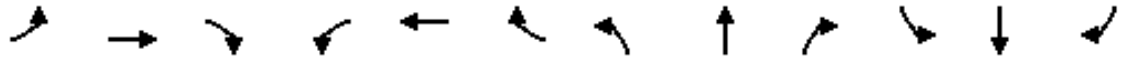
Left Lane Group Data								
Assigned Mvmt	1	0	0	3	5	0	7	0
Lane Assignment	(Prot)			(Prot)	(Prot)		(Prot)	
Lanes in Grp	1	0	0	1	1	0	1	0

Grp Vol (v), veh/h	4	0	0	17	33	0	712	0
Grp Sat Flow (s), veh/h/ln	1645	0	0	1645	1645	0	1645	0
Q Serve Time (g_s), s	0.2	0.0	0.0	0.8	1.8	0.0	38.3	0.0
Cycle Q Clear Time (g_c), s	0.2	0.0	0.0	0.8	1.8	0.0	38.3	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	7	0	0	237	41	0	752	0
V/C Ratio (X)	0.58	0.00	0.00	0.07	0.81	0.00	0.95	0.00
Avail Cap (c_a), veh/h	71	0	0	237	71	0	853	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	46.0	0.0	0.0	34.2	44.9	0.0	24.0	0.0
Incr Delay (d2), s/veh	58.2	0.0	0.0	0.1	30.3	0.0	17.9	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	104.2	0.0	0.0	34.4	75.2	0.0	41.9	0.0
1st-Term Q (Q1), veh/ln	0.1	0.0	0.0	0.4	0.8	0.0	17.2	0.0
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.0	0.0	0.3	0.0	3.7	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.2	0.0	0.0	0.4	1.2	0.0	21.0	0.0
%ile Storage Ratio (RQ%)	0.03	0.00	0.00	0.05	0.52	0.00	2.18	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	0	6	0	8
Lane Assignment								
Lanes in Grp	0	0	0	0	0	0	0	0
Grp Vol (v), veh/h	0	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	14	0	0	16	0	18
Lane Assignment		T+R	T+R			T+R		T+R
Lanes in Grp	0	1	1	0	0	1	0	1
Grp Vol (v), veh/h	0	114	782	0	0	367	0	262
Grp Sat Flow (s), veh/h/ln	0	1605	1724	0	0	1489	0	1726
Q Serve Time (g_s), s	0.0	5.7	39.6	0.0	0.0	16.0	0.0	13.7
Cycle Q Clear Time (g_c), s	0.0	5.7	39.6	0.0	0.0	16.0	0.0	13.7
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.43	0.01	0.00	0.00	0.90	0.00	0.00
Lane Grp Cap (c), veh/h	0	311	836	0	0	258	0	297
V/C Ratio (X)	0.00	0.37	0.94	0.00	0.00	1.42	0.00	0.88
Avail Cap (c_a), veh/h	0	311	1155	0	0	258	0	336
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	32.4	22.4	0.0	0.0	38.3	0.0	37.4
Incr Delay (d2), s/veh	0.0	0.7	11.1	0.0	0.0	212.2	0.0	21.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	33.1	33.5	0.0	0.0	250.5	0.0	58.7
1st-Term Q (Q1), veh/ln	0.0	2.5	18.7	0.0	0.0	6.5	0.0	6.6
2nd-Term Q (Q2), veh/ln	0.0	0.1	2.6	0.0	0.0	15.2	0.0	1.8
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	2.6	21.3	0.0	0.0	21.7	0.0	8.3
%ile Storage Ratio (RQ%)	0.00	0.01	0.04	0.00	0.00	0.09	0.00	0.06
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	27.4	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	74.5
HCM 2010 LOS	E



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	655	711	8	16	240	1	30	60	45	4	32	305
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	712	773	9	17	261	1	33	65	49	4	35	332
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	752	827	10	237	296	1	41	177	133	7	25	233
Arrive On Green	0.46	0.49	0.49	0.14	0.17	0.17	0.02	0.19	0.19	0.00	0.17	0.17
Sat Flow, veh/h	1645	1704	20	1645	1720	7	1645	915	690	1645	142	1347
Grp Volume(v), veh/h	712	0	782	17	0	262	33	0	114	4	0	367
Grp Sat Flow(s),veh/h/ln	1645	0	1724	1645	0	1726	1645	0	1605	1645	0	1489
Q Serve(g_s), s	38.3	0.0	39.6	0.8	0.0	13.7	1.8	0.0	5.7	0.2	0.0	16.0
Cycle Q Clear(g_c), s	38.3	0.0	39.6	0.8	0.0	13.7	1.8	0.0	5.7	0.2	0.0	16.0
Prop In Lane	1.00		0.01	1.00		0.00	1.00		0.43	1.00		0.90
Lane Grp Cap(c), veh/h	752	0	836	237	0	297	41	0	311	7	0	258
V/C Ratio(X)	0.95	0.00	0.94	0.07	0.00	0.88	0.81	0.00	0.37	0.58	0.00	1.42
Avail Cap(c_a), veh/h	853	0	1155	237	0	336	71	0	311	71	0	258
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	24.0	0.0	22.4	34.2	0.0	37.4	44.9	0.0	32.4	46.0	0.0	38.3
Incr Delay (d2), s/veh	17.9	0.0	11.1	0.1	0.0	21.3	30.3	0.0	0.7	58.2	0.0	212.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	21.0	0.0	21.3	0.4	0.0	8.3	1.2	0.0	2.6	0.2	0.0	21.7
LnGrp Delay(d),s/veh	41.9	0.0	33.5	34.4	0.0	58.7	75.2	0.0	33.1	104.2	0.0	250.5
LnGrp LOS	D		C	C		E	E		C	F		F
Approach Vol, veh/h		1494			279			147			371	
Approach Delay, s/veh		37.5			57.2			42.6			248.9	
Approach LOS		D			E			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	4.4	21.9	17.3	48.9	6.3	20.0	46.3	19.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	4.0	16.0	4.0	62.0	4.0	16.0	48.0	18.0
Max Q Clear Time (g_c+I1), s	2.2	7.7	2.8	41.6	3.8	18.0	40.3	15.7
Green Ext Time (p_c), s	0.0	1.3	0.1	3.3	0.0	0.0	2.0	0.2

Intersection Summary	
HCM 2010 Ctrl Delay	74.5
HCM 2010 LOS	E

Intersection	
Int Delay, s/veh	1.5

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	58	1019	433	4	10	115
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	Yield
Storage Length	90	-	-	-	0	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	63	1108	471	4	11	125

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	475	0	-	0	1707	473
Stage 1	-	-	-	-	473	-
Stage 2	-	-	-	-	1234	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1047	-	-	-	96	575
Stage 1	-	-	-	-	611	-
Stage 2	-	-	-	-	265	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1047	-	-	-	90	575
Mov Cap-2 Maneuver	-	-	-	-	90	-
Stage 1	-	-	-	-	611	-
Stage 2	-	-	-	-	249	-

Approach	EB	WB	SB
HCM Control Delay, s	0.5	0	16
HCM LOS			C

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1	SBLn2
Capacity (veh/h)	1047	-	-	-	90	575
HCM Lane V/C Ratio	0.06	-	-	-	0.121	0.217
HCM Control Delay (s)	8.7	-	-	-	50.4	13
HCM Lane LOS	A	-	-	-	F	B
HCM 95th %tile Q(veh)	0.2	-	-	-	0.4	0.8

Intersection	
Intersection Delay, s/veh	9.3
Intersection LOS	A

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	1	27	13	0	1	23	25	0	7	78	2
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	1	29	14	0	1	25	27	0	8	85	2
Number of Lanes	0	1	1	0	0	0	1	1	0	1	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	2	2	2
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	2	2	2
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	2	2	2
HCM Control Delay	8.6	8.3	8.6
HCM LOS	A	A	A

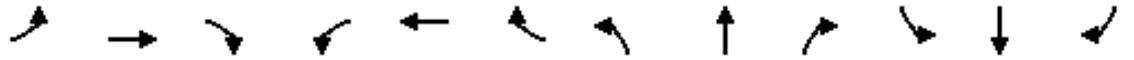
Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1	SBLn2
Vol Left, %	100%	0%	100%	0%	4%	0%	100%	0%
Vol Thru, %	0%	97%	0%	68%	96%	0%	0%	100%
Vol Right, %	0%	3%	0%	33%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	7	80	1	40	24	25	46	215
LT Vol	7	0	1	0	1	0	46	0
Through Vol	0	78	0	27	23	0	0	214
RT Vol	0	2	0	13	0	25	0	1
Lane Flow Rate	8	87	1	43	26	27	50	234
Geometry Grp	7	7	7	7	7	7	7	7
Degree of Util (X)	0.012	0.125	0.002	0.066	0.041	0.038	0.077	0.325
Departure Headway (Hd)	5.691	5.171	6.19	5.458	5.699	4.973	5.517	5.012
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	630	694	579	657	629	720	651	720
Service Time	3.417	2.897	3.921	3.188	3.429	2.703	3.237	2.733
HCM Lane V/C Ratio	0.013	0.125	0.002	0.065	0.041	0.037	0.077	0.325
HCM Control Delay	8.5	8.6	8.9	8.6	8.7	7.9	8.7	10.1
HCM Lane LOS	A	A	A	A	A	A	A	B
HCM 95th-tile Q	0	0.4	0	0.2	0.1	0.1	0.2	1.4

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	46	214	1
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10
Mvmt Flow	0	50	233	1
Number of Lanes	0	1	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	2
Conflicting Approach Left	WB
Conflicting Lanes Left	2
Conflicting Approach Right	EB
Conflicting Lanes Right	2
HCM Control Delay	9.9
HCM LOS	A

Lane



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	29	210	0	55	153	96	4	170	41	55	169	25
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	32	228	0	60	166	104	4	185	45	60	184	27
Adj No. of Lanes	1	1	0	1	1	0	1	2	1	1	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	40	306	0	76	198	124	7	278	124	846	1952	873
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.02	0.18	0.00	0.05	0.20	0.20	0.00	0.08	0.08	0.51	0.59	0.59
Ln Grp Delay, s/veh	72.2	38.7	0.0	59.3	0.0	42.0	102.7	51.9	36.3	11.0	7.9	7.6
Ln Grp LOS	E	D		E		D	F	D	D	B	A	A
Approach Vol, veh/h		260			330			234			271	
Approach Delay, s/veh		42.8			45.1			49.8			8.6	
Approach LOS		D			D			D			A	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	5	6	7	8
Case No	3.0	2.0	2.0	4.0	2.0	3.0	2.0	4.0
Phs Duration (G+Y+Rc), s	11.6	50.3	8.1	19.9	4.4	57.5	6.2	21.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	21.0	14.0	14.0	25.0	9.0	26.0	11.0	28.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	6.9	3.7	5.3	13.3	2.2	4.2	3.7	16.5
Green Ext Time (g_e), s	0.7	0.7	0.1	1.4	0.0	1.0	0.0	1.4
Prob of Phs Call (p_c)	1.00	0.78	0.78	1.00	0.10	1.00	0.55	1.00
Prob of Max Out (p_x)	0.00	0.02	0.00	0.05	0.00	0.00	0.01	0.05

Left-Turn Movement Data								
Assigned Mvmt		1	3		5		7	
Mvmt Sat Flow, veh/h		1645	1645		1645		1645	

Through Movement Data								
Assigned Mvmt	2			4		6		8
Mvmt Sat Flow, veh/h	3282			1727		3282		994

Right-Turn Movement Data								
Assigned Mvmt	12			14		16		18
Mvmt Sat Flow, veh/h	1468			0		1468		623

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	5	0	7	0
Lane Assignment		(Prot)	(Prot)		(Prot)		(Prot)	
Lanes in Grp	0	1	1	0	1	0	1	0

Grp Vol (v), veh/h	0	60	60	0	4	0	32	0
Grp Sat Flow (s), veh/h/ln	0	1645	1645	0	1645	0	1645	0
Q Serve Time (g_s), s	0.0	1.7	3.3	0.0	0.2	0.0	1.7	0.0
Cycle Q Clear Time (g_c), s	0.0	1.7	3.3	0.0	0.2	0.0	1.7	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	846	76	0	7	0	40	0
V/C Ratio (X)	0.00	0.07	0.79	0.00	0.57	0.00	0.79	0.00
Avail Cap (c_a), veh/h	0	846	256	0	165	0	201	0
Upstream Filter (I)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	11.0	42.5	0.0	44.7	0.0	43.7	0.0
Incr Delay (d2), s/veh	0.0	0.0	16.8	0.0	58.0	0.0	28.6	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	11.0	59.3	0.0	102.7	0.0	72.2	0.0
1st-Term Q (Q1), veh/ln	0.0	0.7	1.5	0.0	0.1	0.0	0.8	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.4	0.0	0.1	0.0	0.3	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.8	1.8	0.0	0.2	0.0	1.1	0.0
%ile Storage Ratio (RQ%)	0.00	0.09	0.27	0.00	0.14	0.00	0.34	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	0	6	0	8
Lane Assignment	T			T		T		
Lanes in Grp	2	0	0	1	0	2	0	0
Grp Vol (v), veh/h	185	0	0	228	0	184	0	0
Grp Sat Flow (s), veh/h/ln	1641	0	0	1727	0	1641	0	0
Q Serve Time (g_s), s	4.9	0.0	0.0	11.3	0.0	2.2	0.0	0.0
Cycle Q Clear Time (g_c), s	4.9	0.0	0.0	11.3	0.0	2.2	0.0	0.0
Lane Grp Cap (c), veh/h	278	0	0	306	0	1952	0	0
V/C Ratio (X)	0.67	0.00	0.00	0.74	0.00	0.09	0.00	0.00
Avail Cap (c_a), veh/h	766	0	0	480	0	1952	0	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00
Uniform Delay (d1), s/veh	40.0	0.0	0.0	35.1	0.0	7.8	0.0	0.0
Incr Delay (d2), s/veh	12.0	0.0	0.0	3.6	0.0	0.1	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	51.9	0.0	0.0	38.7	0.0	7.9	0.0	0.0
1st-Term Q (Q1), veh/ln	2.2	0.0	0.0	5.4	0.0	1.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.5	0.0	0.0	0.3	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	2.7	0.0	0.0	5.7	0.0	1.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.09	0.00	0.00	0.23	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	0	14	0	16	0	18
Lane Assignment	R					R		T+R
Lanes in Grp	1	0	0	0	0	1	0	1
Grp Vol (v), veh/h	45	0	0	0	0	27	0	270
Grp Sat Flow (s), veh/h/ln	1468	0	0	0	0	1468	0	1617
Q Serve Time (g_s), s	2.2	0.0	0.0	0.0	0.0	0.7	0.0	14.5
Cycle Q Clear Time (g_c), s	2.2	0.0	0.0	0.0	0.0	0.7	0.0	14.5
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.39
Lane Grp Cap (c), veh/h	124	0	0	0	0	873	0	321
V/C Ratio (X)	0.36	0.00	0.00	0.00	0.00	0.03	0.00	0.84
Avail Cap (c_a), veh/h	343	0	0	0	0	873	0	503
Upstream Filter (I)	1.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	28.3	0.0	0.0	0.0	0.0	7.5	0.0	34.7
Incr Delay (d2), s/veh	8.0	0.0	0.0	0.0	0.0	0.1	0.0	7.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	36.3	0.0	0.0	0.0	0.0	7.6	0.0	42.0
1st-Term Q (Q1), veh/ln	0.9	0.0	0.0	0.0	0.0	0.3	0.0	6.5
2nd-Term Q (Q2), veh/ln	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.7
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	1.2	0.0	0.0	0.0	0.0	0.3	0.0	7.1
%ile Storage Ratio (RQ%)	0.19	0.00	0.00	0.00	0.00	0.19	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	36.5
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	29	210	0	55	153	96	4	170	41	55	169	25
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	32	228	0	60	166	104	4	185	45	60	184	27
Adj No. of Lanes	1	1	0	1	1	0	1	2	1	1	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	40	306	0	76	198	124	7	278	124	846	1952	873
Arrive On Green	0.02	0.18	0.00	0.05	0.20	0.20	0.00	0.08	0.08	0.51	0.59	0.59
Sat Flow, veh/h	1645	1727	0	1645	994	623	1645	3282	1468	1645	3282	1468
Grp Volume(v), veh/h	32	228	0	60	0	270	4	185	45	60	184	27
Grp Sat Flow(s),veh/h/ln	1645	1727	0	1645	0	1617	1645	1641	1468	1645	1641	1468
Q Serve(g_s), s	1.7	11.3	0.0	3.3	0.0	14.5	0.2	4.9	2.2	1.7	2.2	0.7
Cycle Q Clear(g_c), s	1.7	11.3	0.0	3.3	0.0	14.5	0.2	4.9	2.2	1.7	2.2	0.7
Prop In Lane	1.00		0.00	1.00		0.39	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	40	306	0	76	0	321	7	278	124	846	1952	873
V/C Ratio(X)	0.79	0.74	0.00	0.79	0.00	0.84	0.57	0.67	0.36	0.07	0.09	0.03
Avail Cap(c_a), veh/h	201	480	0	256	0	503	165	766	343	846	1952	873
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	43.7	35.1	0.0	42.5	0.0	34.7	44.7	40.0	28.3	11.0	7.8	7.5
Incr Delay (d2), s/veh	28.6	3.6	0.0	16.8	0.0	7.3	58.0	12.0	8.0	0.0	0.1	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.1	5.7	0.0	1.8	0.0	7.1	0.2	2.7	1.2	0.8	1.0	0.3
LnGrp Delay(d),s/veh	72.2	38.7	0.0	59.3	0.0	42.0	102.7	51.9	36.3	11.0	7.9	7.6
LnGrp LOS	E	D		E		D	F	D	D	B	A	A
Approach Vol, veh/h		260			330			234			271	
Approach Delay, s/veh		42.8			45.1			49.8			8.6	
Approach LOS		D			D			D			A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	50.3	11.6	8.1	19.9	4.4	57.5	6.2	21.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	46.0	21.0	14.0	25.0	9.0	26.0	11.0	28.0
Max Q Clear Time (g_c+I1), s	3.7	6.9	5.3	13.3	2.2	4.2	3.7	16.5
Green Ext Time (p_c), s	0.7	0.7	0.1	1.4	0.0	1.0	0.0	1.4

Intersection Summary	
HCM 2010 Ctrl Delay	36.5
HCM 2010 LOS	D

Intersection	
Int Delay, s/veh	1.2

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	0	15	21	144	77	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	28	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	16	23	157	84	1

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	286	84	85	0	-	0
Stage 1	84	-	-	-	-	-
Stage 2	202	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	688	954	1462	-	-	-
Stage 1	919	-	-	-	-	-
Stage 2	813	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	677	954	1462	-	-	-
Mov Cap-2 Maneuver	677	-	-	-	-	-
Stage 1	919	-	-	-	-	-
Stage 2	800	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.8	1	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1462	-	954	-	-
HCM Lane V/C Ratio	0.016	-	0.017	-	-
HCM Control Delay (s)	7.5	-	8.8	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-

Intersection	
Int Delay, s/veh	19.8

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	258	7	113	36	8	71	21	174	5	9	172	32
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	280	8	123	39	9	77	23	189	5	10	187	35

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	504	464	204	527	479	192	222	0	0	195	0	0
Stage 1	224	224	-	238	238	-	-	-	-	-	-	-
Stage 2	280	240	-	289	241	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.2	6.6	6.3	4.2	-	-	4.2	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.59	4.09	3.39	2.29	-	-	2.29	-	-
Pot Cap-1 Maneuver	466	484	817	449	474	830	1301	-	-	1331	-	-
Stage 1	761	704	-	748	694	-	-	-	-	-	-	-
Stage 2	710	692	-	702	692	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	407	470	817	369	460	830	1301	-	-	1331	-	-
Mov Cap-2 Maneuver	407	470	-	369	460	-	-	-	-	-	-	-
Stage 1	746	698	-	733	680	-	-	-	-	-	-	-
Stage 2	623	678	-	585	686	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	42.9	13	0.8	0.3
HCM LOS	E	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1301	-	-	480	574	1331	-	-
HCM Lane V/C Ratio	0.018	-	-	0.856	0.218	0.007	-	-
HCM Control Delay (s)	7.8	0	-	42.9	13	7.7	0	-
HCM Lane LOS	A	A	-	E	B	A	A	-
HCM 95th %tile Q(veh)	0.1	-	-	8.8	0.8	0	-	-

Intersection	
Intersection Delay, s/veh	41.5
Intersection LOS	E

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	11	10	8	0	44	35	158	0	10	205	115
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	12	11	9	0	48	38	172	0	11	223	125
Number of Lanes	0	0	1	0	0	0	1	1	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	2	1	1
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	1	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	1	2
HCM Control Delay	11.1	12.3	16.4
HCM LOS	B	B	C

Lane	NBLn1	EBLn1	WBLn1	WBLn2	SBLn1
Vol Left, %	3%	38%	56%	0%	57%
Vol Thru, %	62%	34%	44%	0%	42%
Vol Right, %	35%	28%	0%	100%	1%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	330	29	79	158	880
LT Vol	10	11	44	0	499
Through Vol	205	10	35	0	371
RT Vol	115	8	0	158	10
Lane Flow Rate	359	32	86	172	957
Geometry Grp	2	5	7	7	2
Degree of Util (X)	0.573	0.066	0.18	0.314	1
Departure Headway (Hd)	5.751	7.537	7.551	6.574	5.759
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	624	478	472	543	641
Service Time	3.831	5.537	5.343	4.365	3.761
HCM Lane V/C Ratio	0.575	0.067	0.182	0.317	1.493
HCM Control Delay	16.4	11.1	12	12.4	59.7
HCM Lane LOS	C	B	B	B	F
HCM 95th-tile Q	3.6	0.2	0.6	1.3	15.3

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	499	371	10
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10
Mvmt Flow	0	542	403	11
Number of Lanes	0	0	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	2
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	59.7
HCM LOS	F

Lane

Intersection	
Int Delay, s/veh	31.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	15	1037	1	3	573	54	0	0	0	90	1	18
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	200	-	-	200	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	16	1127	1	3	623	59	0	0	0	98	1	20

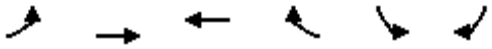
Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	682	0	0	1128	0	0	1829	1848	1128	1819	1820	652
Stage 1	-	-	-	-	-	-	1160	1160	-	659	659	-
Stage 2	-	-	-	-	-	-	669	688	-	1160	1161	-
Critical Hdwy	4.2	-	-	4.2	-	-	7.2	6.6	6.3	7.2	6.6	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.59	4.09	3.39	3.59	4.09	3.39
Pot Cap-1 Maneuver	874	-	-	591	-	-	56	71	239	~ 57	74	454
Stage 1	-	-	-	-	-	-	230	261	-	440	449	-
Stage 2	-	-	-	-	-	-	434	435	-	230	260	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	874	-	-	591	-	-	52	69	239	~ 56	72	454
Mov Cap-2 Maneuver	-	-	-	-	-	-	52	69	-	~ 56	72	-
Stage 1	-	-	-	-	-	-	226	256	-	432	447	-
Stage 2	-	-	-	-	-	-	412	433	-	226	255	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.1	0.1	0	$ 514.3
HCM LOS			A	F

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	-	874	-	-	591	-	-	66
HCM Lane V/C Ratio	-	0.019	-	-	0.006	-	-	1.795
HCM Control Delay (s)	0	9.2	-	-	11.1	-	-	$ 514.3
HCM Lane LOS	A	A	-	-	B	-	-	F
HCM 95th %tile Q(veh)	-	0.1	-	-	0	-	-	10.7

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (veh/h)	239	561	131	85	165	1
Number	7	4	8	18	1	16
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00			1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900
Adj Flow Rate, veh/h	260	610	142	92	179	1
Adj No. of Lanes	1	1	1	1	0	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	0	0
Opposing Right Turn Influence	Yes				Yes	
Cap, veh/h	765	901	901	766	312	2
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.52	0.52	0.52	0.52	0.19	0.19
Ln Grp Delay, s/veh	5.3	5.8	3.6	3.5	11.9	0.0
Ln Grp LOS	A	A	A	A	B	
Approach Vol, veh/h		870	234		181	
Approach Delay, s/veh		5.7	3.5		11.9	
Approach LOS		A	A		B	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	6			4				8
Case No	12.0			6.0				7.0
Phs Duration (G+Y+Rc), s	9.4			18.6				18.6
Change Period (Y+Rc), s	4.0			4.0				4.0
Max Green (Gmax), s	27.0			55.0				55.0
Max Allow Headway (MAH), s	4.1			4.2				4.2
Max Q Clear (g_c+I1), s	4.8			9.3				3.2
Green Ext Time (g_e), s	0.6			5.3				5.3
Prob of Phs Call (p_c)	1.00			1.00				1.00
Prob of Max Out (p_x)	0.00			0.00				0.00

Left-Turn Movement Data								
Assigned Mvmt	1			7				3
Mvmt Sat Flow, veh/h	1626			1059				0

Through Movement Data								
Assigned Mvmt	6			4				8
Mvmt Sat Flow, veh/h	9			1727				1727

Right-Turn Movement Data								
Assigned Mvmt	16			14				18
Mvmt Sat Flow, veh/h	9			0				1468

Left Lane Group Data								
Assigned Mvmt	1	0	0	7	0	0	0	3
Lane Assignment	L+T+R							
Lanes in Grp	1	0	0	1	0	0	0	0

Grp Vol (v), veh/h	181	0	0	260	0	0	0	0
Grp Sat Flow (s), veh/h/ln	1644	0	0	1059	0	0	0	0
Q Serve Time (g_s), s	2.8	0.0	0.0	4.7	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	2.8	0.0	0.0	5.9	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	1059	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	14.6	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	13.4	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	4.7	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.6
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.99	0.00	0.00	1.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	315	0	0	765	0	0	0	0
V/C Ratio (X)	0.57	0.00	0.00	0.34	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	1590	0	0	2298	0	0	0	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	10.2	0.0	0.0	5.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	1.6	0.0	0.0	0.3	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	11.9	0.0	0.0	5.3	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	1.3	0.0	0.0	1.4	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	1.4	0.0	0.0	1.4	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	6	0	0	4	0	0	0	8
Lane Assignment				T				T
Lanes in Grp	0	0	0	1	0	0	0	1
Grp Vol (v), veh/h	0	0	0	610	0	0	0	142
Grp Sat Flow (s), veh/h/ln	0	0	0	1727	0	0	0	1727
Q Serve Time (g_s), s	0.0	0.0	0.0	7.3	0.0	0.0	0.0	1.2
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	7.3	0.0	0.0	0.0	1.2
Lane Grp Cap (c), veh/h	0	0	0	901	0	0	0	901
V/C Ratio (X)	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.16
Avail Cap (c_a), veh/h	0	0	0	3403	0	0	0	3403
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	4.9	0.0	0.0	0.0	3.5
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	5.8	0.0	0.0	0.0	3.6
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.6
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0

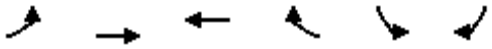
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	3.6	0.0	0.0	0.0	0.6
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	16	0	0	14	0	0	0	18
Lane Assignment								R
Lanes in Grp	0	0	0	0	0	0	0	1
Grp Vol (v), veh/h	0	0	0	0	0	0	0	92
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	1468
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.01	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	766
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	2893
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	6.2
HCM 2010 LOS	A

Notes

User approved volume balancing among the lanes for turning movement.



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (veh/h)	239	561	131	85	165	1
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900
Adj Flow Rate, veh/h	260	610	142	92	179	1
Adj No. of Lanes	1	1	1	1	0	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	0	0
Cap, veh/h	765	901	901	766	312	2
Arrive On Green	0.52	0.52	0.52	0.52	0.19	0.19
Sat Flow, veh/h	1059	1727	1727	1468	1626	9
Grp Volume(v), veh/h	260	610	142	92	181	0
Grp Sat Flow(s),veh/h/ln	1059	1727	1727	1468	1644	0
Q Serve(g_s), s	4.7	7.3	1.2	0.9	2.8	0.0
Cycle Q Clear(g_c), s	5.9	7.3	1.2	0.9	2.8	0.0
Prop In Lane	1.00			1.00	0.99	0.01
Lane Grp Cap(c), veh/h	765	901	901	766	315	0
V/C Ratio(X)	0.34	0.68	0.16	0.12	0.57	0.00
Avail Cap(c_a), veh/h	2298	3403	3403	2893	1590	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	5.0	4.9	3.5	3.4	10.2	0.0
Incr Delay (d2), s/veh	0.3	0.9	0.1	0.1	1.6	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.4	3.6	0.6	0.4	1.4	0.0
LnGrp Delay(d),s/veh	5.3	5.8	3.6	3.5	11.9	0.0
LnGrp LOS	A	A	A	A	B	
Approach Vol, veh/h		870	234		181	
Approach Delay, s/veh		5.7	3.5		11.9	
Approach LOS		A	A		B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		8
Phs Duration (G+Y+Rc), s				18.6		9.4		18.6
Change Period (Y+Rc), s				4.0		4.0		4.0
Max Green Setting (Gmax), s				55.0		27.0		55.0
Max Q Clear Time (g_c+I1), s				9.3		4.8		3.2
Green Ext Time (p_c), s				5.3		0.6		5.3

Intersection Summary	
HCM 2010 Ctrl Delay	6.2
HCM 2010 LOS	A

Notes

User approved volume balancing among the lanes for turning movement.

Intersection	
Int Delay, s/veh	3.8

Movement	SET	SER	NWL	NWT	NEL	NER
Vol, veh/h	84	37	83	87	0	85
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	91	40	90	95	0	92

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	132	0	386	111
Stage 1	-	-	-	-	111	-
Stage 2	-	-	-	-	275	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	1405	-	602	921
Stage 1	-	-	-	-	894	-
Stage 2	-	-	-	-	753	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1405	-	561	921
Mov Cap-2 Maneuver	-	-	-	-	561	-
Stage 1	-	-	-	-	894	-
Stage 2	-	-	-	-	702	-

Approach	SE	NW	NE
HCM Control Delay, s	0	3.8	9.3
HCM LOS			A

Minor Lane/Major Mvmt	NELn1	NWL	NWT	SET	SER
Capacity (veh/h)	921	1405	-	-	-
HCM Lane V/C Ratio	0.1	0.064	-	-	-
HCM Control Delay (s)	9.3	7.7	0	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0.3	0.2	-	-	-

Intersection	
Int Delay, s/veh	3.4

Movement	EBL	EBT	WBT	WBR	SEL	SER
Vol, veh/h	174	510	90	94	51	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	189	554	98	102	55	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	200	0	-	0	1082	149
Stage 1	-	-	-	-	149	-
Stage 2	-	-	-	-	933	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1326	-	-	-	232	877
Stage 1	-	-	-	-	859	-
Stage 2	-	-	-	-	370	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1326	-	-	-	184	877
Mov Cap-2 Maneuver	-	-	-	-	184	-
Stage 1	-	-	-	-	859	-
Stage 2	-	-	-	-	294	-

Approach	EB	WB	SE
HCM Control Delay, s	2.1	0	32.8
HCM LOS			D

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SELn1	SELn2
Capacity (veh/h)	1326	-	-	-	184	-
HCM Lane V/C Ratio	0.143	-	-	-	0.301	-
HCM Control Delay (s)	8.2	0	-	-	32.8	0
HCM Lane LOS	A	A	-	-	D	A
HCM 95th %tile Q(veh)	0.5	-	-	-	1.2	-

Intersection	
Int Delay, s/veh	7

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	3	42	8	31	181	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	3	46	9	34	197	5

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	42	0	-	0	78	26
Stage 1	-	-	-	-	26	-
Stage 2	-	-	-	-	52	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1517	-	-	-	905	1027
Stage 1	-	-	-	-	976	-
Stage 2	-	-	-	-	950	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1517	-	-	-	903	1027
Mov Cap-2 Maneuver	-	-	-	-	903	-
Stage 1	-	-	-	-	976	-
Stage 2	-	-	-	-	948	-

Approach	EB	WB	SB
HCM Control Delay, s	0.5	0	10.1
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1517	-	-	-	906
HCM Lane V/C Ratio	0.002	-	-	-	0.223
HCM Control Delay (s)	7.4	0	-	-	10.1
HCM Lane LOS	A	A	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0.9

Intersection	
Int Delay, s/veh	8.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	0	76	45	1	4	17	28	56	5	244	290	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	170	-	-	162	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	83	49	1	4	18	30	61	5	265	315	1

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	982	973	316	1036	971	64	316	0	0	66	0	0
Stage 1	846	846	-	124	124	-	-	-	-	-	-	-
Stage 2	136	127	-	912	847	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.2	6.6	6.3	4.2	-	-	4.2	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.59	4.09	3.39	2.29	-	-	2.29	-	-
Pot Cap-1 Maneuver	221	244	706	203	245	978	1200	-	-	1486	-	-
Stage 1	346	367	-	861	778	-	-	-	-	-	-	-
Stage 2	848	776	-	317	367	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	181	195	706	109	196	978	1200	-	-	1486	-	-
Mov Cap-2 Maneuver	181	195	-	109	196	-	-	-	-	-	-	-
Stage 1	337	302	-	839	759	-	-	-	-	-	-	-
Stage 2	807	757	-	176	302	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	30.9	13.1	2.5	3.6
HCM LOS	D	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1200	-	-	267	468	1486	-	-
HCM Lane V/C Ratio	0.025	-	-	0.493	0.051	0.178	-	-
HCM Control Delay (s)	8.1	-	-	30.9	13.1	7.9	-	-
HCM Lane LOS	A	-	-	D	B	A	-	-
HCM 95th %tile Q(veh)	0.1	-	-	2.5	0.2	0.6	-	-

Intersection	
Intersection Delay, s/veh	10.5
Intersection LOS	B

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	SBU	SBL	SBR
Vol, veh/h	0	0	179	0	0	0	58	0	0	0	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	0	195	0	0	0	63	0	0	0	1
Number of Lanes	0	0	1	0	0	0	1	0	0	1	0

Approach	EB	WB
Opposing Approach	WB	EB
Opposing Lanes	1	1
Conflicting Approach Left	SB	
Conflicting Lanes Left	1	0
Conflicting Approach Right		SB
Conflicting Lanes Right	0	1
HCM Control Delay	9.8	8.7
HCM LOS	A	A

Lane	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	0%	100%
Vol Thru, %	100%	100%	0%
Vol Right, %	0%	0%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	179	58	279
LT Vol	0	0	278
Through Vol	179	58	0
RT Vol	0	0	1
Lane Flow Rate	195	63	303
Geometry Grp	1	1	1
Degree of Util (X)	0.267	0.089	0.414
Departure Headway (Hd)	4.938	5.107	4.909
Convergence, Y/N	Yes	Yes	Yes
Cap	726	699	731
Service Time	2.978	3.158	2.948
HCM Lane V/C Ratio	0.269	0.09	0.415
HCM Control Delay	9.8	8.7	11.4
HCM Lane LOS	A	A	B
HCM 95th-tile Q	1.1	0.3	2

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	NWU	NWL	NWR
Vol, veh/h	0	0	0
Peak Hour Factor	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10
Mvmt Flow	0	0	0
Number of Lanes	0	0	0

Approach	
Opposing Approach	
Opposing Lanes	
Conflicting Approach Left	
Conflicting Lanes Left	
Conflicting Approach Right	
Conflicting Lanes Right	
HCM Control Delay	
HCM LOS	

Lane

Intersection	
Int Delay, s/veh	1.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBR	SEL	SER
Vol, veh/h	0	148	0	0	84	0	16	22	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	None	-	-
Storage Length	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	0	-	0	-
Grade, %	-	0	-	-	0	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	161	0	0	91	0	17	24	0	0

Major/Minor	Major1			Major2			Minor1		
Conflicting Flow All	91	0	0	161	0	0	252	161	
Stage 1	-	-	-	-	-	-	161	-	
Stage 2	-	-	-	-	-	-	91	-	
Critical Hdwy	4.2	-	-	4.2	-	-	6.5	6.3	
Critical Hdwy Stg 1	-	-	-	-	-	-	5.5	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	5.5	-	
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.59	3.39	
Pot Cap-1 Maneuver	1455	-	-	1371	-	-	720	863	
Stage 1	-	-	-	-	-	-	849	-	
Stage 2	-	-	-	-	-	-	913	-	
Platoon blocked, %		-	-		-	-			
Mov Cap-1 Maneuver	1455	-	-	1371	-	-	720	863	
Mov Cap-2 Maneuver	-	-	-	-	-	-	720	-	
Stage 1	-	-	-	-	-	-	849	-	
Stage 2	-	-	-	-	-	-	913	-	

Approach	EB	WB	NB
HCM Control Delay, s	0	0	9.4
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR
Capacity (veh/h)	863	1455	-	-	1371	-	-
HCM Lane V/C Ratio	0.048	-	-	-	-	-	-
HCM Control Delay (s)	9.4	0	-	-	0	-	-
HCM Lane LOS	A	A	-	-	A	-	-
HCM 95th %tile Q(veh)	0.2	0	-	-	0	-	-

Intersection	
Int Delay, s/veh	2.9

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	3	153	73	299	399	10
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	329	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	3	166	79	325	434	11

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	923	439	445	0	-	0
Stage 1	439	-	-	-	-	-
Stage 2	484	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	290	601	1074	-	-	-
Stage 1	633	-	-	-	-	-
Stage 2	603	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	269	601	1074	-	-	-
Mov Cap-2 Maneuver	269	-	-	-	-	-
Stage 1	633	-	-	-	-	-
Stage 2	559	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	13.6	1.7	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1074	-	587	-	-
HCM Lane V/C Ratio	0.074	-	0.289	-	-
HCM Control Delay (s)	8.6	-	13.6	-	-
HCM Lane LOS	A	-	B	-	-
HCM 95th %tile Q(veh)	0.2	-	1.2	-	-

Intersection	
Int Delay, s/veh	2.3

Movement	NBT	NBR	SBL	SBT	NWL	NWR
Vol, veh/h	316	37	130	295	0	76
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	299	-	0	-
Veh in Median Storage, #	0	-	-	0	1	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	343	40	141	321	0	83

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	384	0	967	364
Stage 1	-	-	-	-	364	-
Stage 2	-	-	-	-	603	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	1132	-	273	663
Stage 1	-	-	-	-	686	-
Stage 2	-	-	-	-	531	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1132	-	239	663
Mov Cap-2 Maneuver	-	-	-	-	355	-
Stage 1	-	-	-	-	686	-
Stage 2	-	-	-	-	465	-

Approach	NB	SB	NW
HCM Control Delay, s	0	2.6	11.2
HCM LOS			B

Minor Lane/Major Mvmt	NBT	NBR	NWLn1	SBL	SBT
Capacity (veh/h)	-	-	663	1132	-
HCM Lane V/C Ratio	-	-	0.125	0.125	-
HCM Control Delay (s)	-	-	11.2	8.6	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.4	0.4	-

Intersection	
Intersection Delay, s/veh	12.2
Intersection LOS	B

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	17	209	97	0	46	94	16	0	46	49	38
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	18	227	105	0	50	102	17	0	50	53	41
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	1	1	1
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	1	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	1	1
HCM Control Delay	13.7	10.8	10.6
HCM LOS	B	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	35%	5%	29%	12%
Vol Thru, %	37%	65%	60%	81%
Vol Right, %	29%	30%	10%	7%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	133	323	156	199
LT Vol	46	17	46	23
Through Vol	49	209	94	162
RT Vol	38	97	16	14
Lane Flow Rate	145	351	170	216
Geometry Grp	1	1	1	1
Degree of Util (X)	0.233	0.512	0.268	0.345
Departure Headway (Hd)	5.799	5.247	5.691	5.743
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	617	685	629	625
Service Time	3.853	3.289	3.742	3.791
HCM Lane V/C Ratio	0.235	0.512	0.27	0.346
HCM Control Delay	10.6	13.7	10.8	11.8
HCM Lane LOS	B	B	B	B
HCM 95th-tile Q	0.9	2.9	1.1	1.5

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	23	162	14
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10
Mvmt Flow	0	25	176	15
Number of Lanes	0	0	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	1
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	11.8
HCM LOS	B

Lane

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	95	1089	226	156	686	15	33	67	20	51	393	33
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	103	1184	246	170	746	16	36	73	22	55	427	36
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	129	1249	559	188	1368	612	43	111	95	450	539	458
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.08	0.38	0.38	0.11	0.42	0.42	0.03	0.06	0.06	0.27	0.31	0.31
Ln Grp Delay, s/veh	54.4	43.4	15.5	80.9	21.6	2.5	82.3	70.1	48.3	26.3	41.6	23.6
Ln Grp LOS	D	D	B	F	C	A	F	E	D	C	D	C
Approach Vol, veh/h		1533			932			131			518	
Approach Delay, s/veh		39.7			32.1			69.8			38.7	
Approach LOS		D			C			E			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	5	6	7	8
Case No	3.0	2.0	3.0	2.0	2.0	3.0	2.0	3.0
Phs Duration (G+Y+Rc), s	10.2	30.3	40.5	15.0	6.5	33.9	11.5	44.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	25.0	7.0	37.0	11.0	4.0	28.0	13.0	35.0
Max Allow Headway (MAH), s	4.1	4.0	4.1	4.0	4.1	4.0	4.1	4.0
Max Q Clear (g_c+I1), s	6.0	4.4	35.6	11.8	4.1	23.7	7.9	18.5
Green Ext Time (g_e), s	0.2	0.6	1.0	0.0	0.0	0.8	0.1	3.7
Prob of Phs Call (p_c)	1.00	0.77	1.00	0.99	0.62	1.00	0.94	1.00
Prob of Max Out (p_x)	0.00	1.00	1.00	1.00	1.00	0.91	0.39	0.05

Left-Turn Movement Data								
Assigned Mvmt		1		3	5		7	
Mvmt Sat Flow, veh/h		1645		1645	1645		1645	

Through Movement Data								
Assigned Mvmt	2		4			6		8
Mvmt Sat Flow, veh/h	1727		3282			1727		3282

Right-Turn Movement Data								
Assigned Mvmt	12		14			16		18
Mvmt Sat Flow, veh/h	1468		1468			1468		1468

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	5	0	7	0
Lane Assignment		(Prot)		(Prot)	(Prot)		(Prot)	
Lanes in Grp	0	1	0	1	1	0	1	0

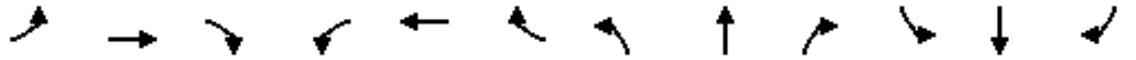
Grp Vol (v), veh/h	0	55	0	170	36	0	103	0
Grp Sat Flow (s), veh/h/ln	0	1645	0	1645	1645	0	1645	0
Q Serve Time (g_s), s	0.0	2.4	0.0	9.8	2.1	0.0	5.9	0.0
Cycle Q Clear Time (g_c), s	0.0	2.4	0.0	9.8	2.1	0.0	5.9	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	450	0	188	43	0	129	0
V/C Ratio (X)	0.00	0.12	0.00	0.90	0.83	0.00	0.80	0.00
Avail Cap (c_a), veh/h	0	450	0	188	69	0	223	0
Upstream Filter (I)	0.00	1.00	0.00	0.99	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	26.2	0.0	42.0	46.5	0.0	43.5	0.0
Incr Delay (d2), s/veh	0.0	0.1	0.0	38.9	35.8	0.0	10.9	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	26.3	0.0	80.9	82.3	0.0	54.4	0.0
1st-Term Q (Q1), veh/ln	0.0	1.1	0.0	4.4	0.9	0.0	2.7	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	2.0	0.4	0.0	0.4	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	1.1	0.0	6.5	1.4	0.0	3.1	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.01	0.02	0.00	0.02	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	0	6	0	8
Lane Assignment	T		T			T		T
Lanes in Grp	1	0	2	0	0	1	0	2
Grp Vol (v), veh/h	73	0	1184	0	0	427	0	746
Grp Sat Flow (s), veh/h/ln	1727	0	1641	0	0	1727	0	1641
Q Serve Time (g_s), s	4.0	0.0	33.6	0.0	0.0	21.7	0.0	16.5
Cycle Q Clear Time (g_c), s	4.0	0.0	33.6	0.0	0.0	21.7	0.0	16.5
Lane Grp Cap (c), veh/h	111	0	1249	0	0	539	0	1368
V/C Ratio (X)	0.66	0.00	0.95	0.00	0.00	0.79	0.00	0.55
Avail Cap (c_a), veh/h	450	0	1265	0	0	539	0	1368
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	0.99
Uniform Delay (d1), s/veh	43.9	0.0	28.8	0.0	0.0	30.2	0.0	21.1
Incr Delay (d2), s/veh	26.2	0.0	14.6	0.0	0.0	11.4	0.0	0.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	70.1	0.0	43.4	0.0	0.0	41.6	0.0	21.6
1st-Term Q (Q1), veh/ln	1.9	0.0	15.1	0.0	0.0	10.3	0.0	7.5
2nd-Term Q (Q2), veh/ln	0.8	0.0	2.5	0.0	0.0	1.7	0.0	0.1

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	2.7	0.0	17.7	0.0	0.0	12.0	0.0	7.5
%ile Storage Ratio (RQ%)	0.03	0.00	0.09	0.00	0.00	0.02	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	0	16	0	18
Lane Assignment	R		R			R		R
Lanes in Grp	1	0	1	0	0	1	0	1
Grp Vol (v), veh/h	22	0	246	0	0	36	0	16
Grp Sat Flow (s), veh/h/ln	1468	0	1468	0	0	1468	0	1468
Q Serve Time (g_s), s	1.4	0.0	9.9	0.0	0.0	1.7	0.0	0.2
Cycle Q Clear Time (g_c), s	1.4	0.0	9.9	0.0	0.0	1.7	0.0	0.2
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	95	0	559	0	0	458	0	612
V/C Ratio (X)	0.23	0.00	0.44	0.00	0.00	0.08	0.00	0.03
Avail Cap (c_a), veh/h	382	0	566	0	0	458	0	612
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	0.99
Uniform Delay (d1), s/veh	42.6	0.0	15.0	0.0	0.0	23.3	0.0	2.5
Incr Delay (d2), s/veh	5.7	0.0	0.5	0.0	0.0	0.3	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	48.3	0.0	15.5	0.0	0.0	23.6	0.0	2.5
1st-Term Q (Q1), veh/ln	0.6	0.0	4.0	0.0	0.0	0.7	0.0	0.1
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.7	0.0	4.0	0.0	0.0	0.7	0.0	0.1
%ile Storage Ratio (RQ%)	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	38.5
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	95	1089	226	156	686	15	33	67	20	51	393	33
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	103	1184	246	170	746	16	36	73	22	55	427	36
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	129	1249	559	188	1368	612	43	111	95	450	539	458
Arrive On Green	0.08	0.38	0.38	0.11	0.42	0.42	0.03	0.06	0.06	0.27	0.31	0.31
Sat Flow, veh/h	1645	3282	1468	1645	3282	1468	1645	1727	1468	1645	1727	1468
Grp Volume(v), veh/h	103	1184	246	170	746	16	36	73	22	55	427	36
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1641	1468	1645	1727	1468	1645	1727	1468
Q Serve(g_s), s	5.9	33.6	9.9	9.8	16.5	0.2	2.1	4.0	1.4	2.4	21.7	1.7
Cycle Q Clear(g_c), s	5.9	33.6	9.9	9.8	16.5	0.2	2.1	4.0	1.4	2.4	21.7	1.7
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	129	1249	559	188	1368	612	43	111	95	450	539	458
V/C Ratio(X)	0.80	0.95	0.44	0.90	0.55	0.03	0.83	0.66	0.23	0.12	0.79	0.08
Avail Cap(c_a), veh/h	223	1265	566	188	1368	612	69	450	382	450	539	458
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.99	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	43.5	28.8	15.0	42.0	21.1	2.5	46.5	43.9	42.6	26.2	30.2	23.3
Incr Delay (d2), s/veh	10.9	14.6	0.5	38.9	0.4	0.0	35.8	26.2	5.7	0.1	11.4	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.1	17.7	4.0	6.5	7.5	0.1	1.4	2.7	0.7	1.1	12.0	0.7
LnGrp Delay(d),s/veh	54.4	43.4	15.5	80.9	21.6	2.5	82.3	70.1	48.3	26.3	41.6	23.6
LnGrp LOS	D	D	B	F	C	A	F	E	D	C	D	C
Approach Vol, veh/h		1533			932			131			518	
Approach Delay, s/veh		39.7			32.1			69.8			38.7	
Approach LOS		D			C			E			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	30.3	10.2	15.0	40.5	6.5	33.9	11.5	44.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	26.0	25.0	11.0	37.0	4.0	28.0	13.0	35.0
Max Q Clear Time (g_c+I1), s	4.4	6.0	11.8	35.6	4.1	23.7	7.9	18.5
Green Ext Time (p_c), s	0.6	0.2	0.0	1.0	0.0	0.8	0.1	3.7

Intersection Summary	
HCM 2010 Ctrl Delay	38.5
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	928	82	478	471	8	36	3	173	2	7	0
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	1009	89	520	512	9	39	3	188	2	8	0
Adj No. of Lanes	1	2	1	1	2	0	2	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	75	991	444	514	2166	38	565	374	318	4	72	61
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.00	0.30	0.30	0.31	0.66	0.66	0.18	0.22	0.22	0.00	0.04	0.00
Ln Grp Delay, s/veh	0.0	55.0	25.0	73.7	6.8	6.8	32.9	29.5	9.0	142.5	45.0	0.0
Ln Grp LOS		F	C	F	A	A	C	C	A	F	D	
Approach Vol, veh/h		1098			1041			230			10	
Approach Delay, s/veh		52.6			40.2			13.3			64.5	
Approach LOS		D			D			B			E	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	6	5		8
Case No	2.0	3.0	5.0	2.0	3.0	2.0		4.0
Phs Duration (G+Y+Rc), s	4.2	24.8	33.0	34.0	8.0	21.0		67.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0		4.0
Max Green (Gmax), s	4.0	17.0	29.0	30.0	17.0	4.0		63.0
Max Allow Headway (MAH), s	4.1	4.3	4.0	4.1	4.0	4.3		4.1
Max Q Clear (g_c+I1), s	2.1	7.5	31.0	32.0	2.4	3.0		8.1
Green Ext Time (g_e), s	0.0	0.6	0.0	0.0	0.0	0.1		4.3
Prob of Phs Call (p_c)	0.05	1.00	1.00	1.00	1.00	0.65		1.00
Prob of Max Out (p_x)	1.00	0.04	1.00	1.00	0.00	1.00		0.00

Left-Turn Movement Data								
Assigned Mvmt	1		7	3		5		
Mvmt Sat Flow, veh/h	1645		813	1645		3191		

Through Movement Data								
Assigned Mvmt		2	4		6			8
Mvmt Sat Flow, veh/h		1727	3282		1727			3300

Right-Turn Movement Data								
Assigned Mvmt		12	14		16			18
Mvmt Sat Flow, veh/h		1468	1468		1468			58

Left Lane Group Data								
Assigned Mvmt	1	0	7	3	0	5	0	0
Lane Assignment	(Prot)			(Prot)		(Prot)		
Lanes in Grp	1	0	1	1	0	2	0	0

Grp Vol (v), veh/h	2	0	0	520	0	39	0	0
Grp Sat Flow (s), veh/h/ln	1645	0	813	1645	0	1596	0	0
Q Serve Time (g_s), s	0.1	0.0	0.0	30.0	0.0	1.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.1	0.0	0.0	30.0	0.0	1.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	813	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	1.00	0.00	1.00	0.00	0.00
Lane Grp Cap (c), veh/h	4	0	75	514	0	565	0	0
V/C Ratio (X)	0.56	0.00	0.00	1.01	0.00	0.07	0.00	0.00
Avail Cap (c_a), veh/h	69	0	75	514	0	565	0	0
Upstream Filter (I)	1.00	0.00	0.00	0.90	0.00	0.09	0.00	0.00
Uniform Delay (d1), s/veh	47.9	0.0	0.0	33.0	0.0	32.9	0.0	0.0
Incr Delay (d2), s/veh	94.6	0.0	0.0	40.7	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	142.5	0.0	0.0	73.7	0.0	32.9	0.0	0.0
1st-Term Q (Q1), veh/ln	0.1	0.0	0.0	13.6	0.0	0.4	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.0	5.8	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	1.00	0.00	1.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.1	0.0	0.0	19.4	0.0	0.4	0.0	0.0
%ile Storage Ratio (RQ%)	0.04	0.00	0.00	1.69	0.00	0.07	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	6	0	0	8
Lane Assignment		T	T		T			T
Lanes in Grp	0	1	2	0	1	0	0	1
Grp Vol (v), veh/h	0	3	1009	0	8	0	0	254
Grp Sat Flow (s), veh/h/ln	0	1727	1641	0	1727	0	0	1641
Q Serve Time (g_s), s	0.0	0.1	29.0	0.0	0.4	0.0	0.0	6.1
Cycle Q Clear Time (g_c), s	0.0	0.1	29.0	0.0	0.4	0.0	0.0	6.1
Lane Grp Cap (c), veh/h	0	374	991	0	72	0	0	1077
V/C Ratio (X)	0.00	0.01	1.02	0.00	0.11	0.00	0.00	0.24
Avail Cap (c_a), veh/h	0	374	991	0	306	0	0	1077
Upstream Filter (I)	0.00	0.09	0.35	0.00	1.00	0.00	0.00	0.90
Uniform Delay (d1), s/veh	0.0	29.5	33.5	0.0	44.3	0.0	0.0	6.7
Incr Delay (d2), s/veh	0.0	0.0	21.5	0.0	0.7	0.0	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	29.5	55.0	0.0	45.0	0.0	0.0	6.8
1st-Term Q (Q1), veh/ln	0.0	0.1	13.1	0.0	0.2	0.0	0.0	2.7
2nd-Term Q (Q2), veh/ln	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.1	16.0	0.0	0.2	0.0	0.0	2.7
%ile Storage Ratio (RQ%)	0.00	0.00	0.03	0.00	0.01	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	4.4	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	14	0	16	0	0	18
Lane Assignment		R	R		R			T+R
Lanes in Grp	0	1	1	0	1	0	0	1
Grp Vol (v), veh/h	0	188	89	0	0	0	0	267
Grp Sat Flow (s), veh/h/ln	0	1468	1468	0	1468	0	0	1717
Q Serve Time (g_s), s	0.0	5.5	4.3	0.0	0.0	0.0	0.0	6.1
Cycle Q Clear Time (g_c), s	0.0	5.5	4.3	0.0	0.0	0.0	0.0	6.1
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	0.03
Lane Grp Cap (c), veh/h	0	318	444	0	61	0	0	1127
V/C Ratio (X)	0.00	0.59	0.20	0.00	0.00	0.00	0.00	0.24
Avail Cap (c_a), veh/h	0	318	444	0	260	0	0	1127
Upstream Filter (I)	0.00	0.09	0.35	0.00	0.00	0.00	0.00	0.90
Uniform Delay (d1), s/veh	0.0	8.3	24.9	0.0	0.0	0.0	0.0	6.7
Incr Delay (d2), s/veh	0.0	0.7	0.1	0.0	0.0	0.0	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	9.0	25.0	0.0	0.0	0.0	0.0	6.8
1st-Term Q (Q1), veh/ln	0.0	2.2	1.8	0.0	0.0	0.0	0.0	2.8
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	2.3	1.8	0.0	0.0	0.0	0.0	2.8
%ile Storage Ratio (RQ%)	0.00	0.58	0.19	0.00	0.00	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	43.4
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	928	82	478	471	8	36	3	173	2	7	0
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	1009	89	520	512	9	39	3	188	2	8	0
Adj No. of Lanes	1	2	1	1	2	0	2	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	75	991	444	514	2166	38	565	374	318	4	72	61
Arrive On Green	0.00	0.30	0.30	0.31	0.66	0.66	0.18	0.22	0.22	0.00	0.04	0.00
Sat Flow, veh/h	813	3282	1468	1645	3300	58	3191	1727	1468	1645	1727	1468
Grp Volume(v), veh/h	0	1009	89	520	254	267	39	3	188	2	8	0
Grp Sat Flow(s),veh/h/ln	813	1641	1468	1645	1641	1717	1596	1727	1468	1645	1727	1468
Q Serve(g_s), s	0.0	29.0	4.3	30.0	6.1	6.1	1.0	0.1	5.5	0.1	0.4	0.0
Cycle Q Clear(g_c), s	0.0	29.0	4.3	30.0	6.1	6.1	1.0	0.1	5.5	0.1	0.4	0.0
Prop In Lane	1.00		1.00	1.00		0.03	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	75	991	444	514	1077	1127	565	374	318	4	72	61
V/C Ratio(X)	0.00	1.02	0.20	1.01	0.24	0.24	0.07	0.01	0.59	0.56	0.11	0.00
Avail Cap(c_a), veh/h	75	991	444	514	1077	1127	565	374	318	69	306	260
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.35	0.35	0.90	0.90	0.90	0.09	0.09	0.09	1.00	1.00	0.00
Uniform Delay (d), s/veh	0.0	33.5	24.9	33.0	6.7	6.7	32.9	29.5	8.3	47.9	44.3	0.0
Incr Delay (d2), s/veh	0.0	21.5	0.1	40.7	0.1	0.1	0.0	0.0	0.7	94.6	0.7	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	16.0	1.8	19.4	2.7	2.8	0.4	0.1	2.3	0.1	0.2	0.0
LnGrp Delay(d),s/veh	0.0	55.0	25.0	73.7	6.8	6.8	32.9	29.5	9.0	142.5	45.0	0.0
LnGrp LOS		F	C	F	A	A	C	C	A	F	D	
Approach Vol, veh/h		1098			1041			230			10	
Approach Delay, s/veh		52.6			40.2			13.3			64.5	
Approach LOS		D			D			B			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6		8
Phs Duration (G+Y+Rc), s	4.2	24.8	34.0	33.0	21.0	8.0		67.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	4.0	17.0	30.0	29.0	4.0	17.0		63.0
Max Q Clear Time (g_c+I1), s	2.1	7.5	32.0	31.0	3.0	2.4		8.1
Green Ext Time (p_c), s	0.0	0.6	0.0	0.0	0.1	0.0		4.3

Intersection Summary	
HCM 2010 Ctrl Delay	43.4
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	12	1002	81	351	809	9	68	1	214	66	47	14
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	13	1089	88	382	879	10	74	1	233	72	51	15
Adj No. of Lanes	1	2	0	1	2	1	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	458	1121	91	394	1070	479	86	1	259	86	227	67
HCM Platoon Ratio	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.28	0.36	0.36	0.08	0.11	0.11	0.05	0.18	0.18	0.05	0.18	0.18
Ln Grp Delay, s/veh	25.2	50.6	50.6	78.3	41.6	18.6	84.8	0.0	63.5	94.3	0.0	35.6
Ln Grp LOS	C	D	D	E	D	B	F		E	F		D
Approach Vol, veh/h		1190			1271			308			138	
Approach Delay, s/veh		50.3			52.4			68.6			66.2	
Approach LOS		D			D			E			E	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	8	7
Case No	2.0	4.0	2.0	4.0	2.0	4.0	3.0	2.0
Phs Duration (G+Y+Rc), s	9.0	21.0	27.0	39.0	9.0	21.0	35.3	30.7
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	5.0	17.0	23.0	35.0	5.0	17.0	54.0	4.0
Max Allow Headway (MAH), s	4.1	4.3	4.1	4.0	4.1	4.3	4.0	4.0
Max Q Clear (g_c+I1), s	6.2	17.0	24.2	35.5	6.3	5.3	27.2	2.6
Green Ext Time (g_e), s	0.0	0.0	0.0	0.0	0.0	0.9	4.1	0.8
Prob of Phs Call (p_c)	0.85	1.00	1.00	1.00	0.86	1.00	1.00	0.29
Prob of Max Out (p_x)	1.00	1.00	1.00	1.00	1.00	0.02	0.00	1.00

Left-Turn Movement Data								
Assigned Mvmt	1		3		5			7
Mvmt Sat Flow, veh/h	1645		1645		1645			1645

Through Movement Data								
Assigned Mvmt		2		4		6	8	
Mvmt Sat Flow, veh/h		6		3076		1283	3282	

Right-Turn Movement Data								
Assigned Mvmt		12		14		16	18	
Mvmt Sat Flow, veh/h		1463		248		377	1468	

Left Lane Group Data								
Assigned Mvmt	1	0	3	0	5	0	0	7
Lane Assignment	(Prot)		(Prot)		(Prot)			(Prot)
Lanes in Grp	1	0	1	0	1	0	0	1

Grp Vol (v), veh/h	72	0	382	0	74	0	0	13
Grp Sat Flow (s), veh/h/ln	1645	0	1645	0	1645	0	0	1645
Q Serve Time (g_s), s	4.2	0.0	22.2	0.0	4.3	0.0	0.0	0.6
Cycle Q Clear Time (g_c), s	4.2	0.0	22.2	0.0	4.3	0.0	0.0	0.6
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	86	0	394	0	86	0	0	458
V/C Ratio (X)	0.84	0.00	0.97	0.00	0.86	0.00	0.00	0.03
Avail Cap (c_a), veh/h	86	0	394	0	86	0	0	458
Upstream Filter (I)	1.00	0.00	0.88	0.00	0.62	0.00	0.00	0.56
Uniform Delay (d1), s/veh	45.1	0.0	43.9	0.0	45.2	0.0	0.0	25.2
Incr Delay (d2), s/veh	49.2	0.0	34.4	0.0	39.6	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	94.3	0.0	78.3	0.0	84.8	0.0	0.0	25.2
1st-Term Q (Q1), veh/ln	1.9	0.0	10.2	0.0	2.0	0.0	0.0	0.2
2nd-Term Q (Q2), veh/ln	1.2	0.0	3.8	0.0	0.9	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	3.1	0.0	13.9	0.0	2.9	0.0	0.0	0.3
%ile Storage Ratio (RQ%)	0.48	0.00	1.94	0.00	0.67	0.00	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	8	0
Lane Assignment				T			T	
Lanes in Grp	0	0	0	1	0	0	2	0
Grp Vol (v), veh/h	0	0	0	581	0	0	879	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1641	0	0	1641	0
Q Serve Time (g_s), s	0.0	0.0	0.0	33.4	0.0	0.0	25.2	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	33.4	0.0	0.0	25.2	0.0
Lane Grp Cap (c), veh/h	0	0	0	598	0	0	1070	0
V/C Ratio (X)	0.00	0.00	0.00	0.97	0.00	0.00	0.82	0.00
Avail Cap (c_a), veh/h	0	0	0	598	0	0	1846	0
Upstream Filter (I)	0.00	0.00	0.00	0.56	0.00	0.00	0.88	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	30.0	0.0	0.0	40.1	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	20.7	0.0	0.0	1.4	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	50.6	0.0	0.0	41.6	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	15.0	0.0	0.0	11.4	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	3.4	0.0	0.0	0.2	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	18.4	0.0	0.0	11.7	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.10	0.00	0.00	0.21	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	18	0
Lane Assignment		T+R		T+R		T+R	R	
Lanes in Grp	0	1	0	1	0	1	1	0
Grp Vol (v), veh/h	0	234	0	596	0	66	10	0
Grp Sat Flow (s), veh/h/ln	0	1469	0	1683	0	1661	1468	0
Q Serve Time (g_s), s	0.0	15.0	0.0	33.5	0.0	3.3	0.5	0.0
Cycle Q Clear Time (g_c), s	0.0	15.0	0.0	33.5	0.0	3.3	0.5	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	0.15	0.00	0.23	1.00	0.00
Lane Grp Cap (c), veh/h	0	260	0	614	0	294	479	0
V/C Ratio (X)	0.00	0.90	0.00	0.97	0.00	0.22	0.02	0.00
Avail Cap (c_a), veh/h	0	260	0	614	0	294	826	0
Upstream Filter (I)	0.00	0.62	0.00	0.56	0.00	1.00	0.88	0.00
Uniform Delay (d1), s/veh	0.0	38.7	0.0	30.0	0.0	33.9	18.6	0.0
Incr Delay (d2), s/veh	0.0	24.9	0.0	20.6	0.0	1.8	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	63.5	0.0	50.6	0.0	35.6	18.6	0.0
1st-Term Q (Q1), veh/ln	0.0	6.0	0.0	15.4	0.0	1.5	0.2	0.0
2nd-Term Q (Q2), veh/ln	0.0	1.8	0.0	3.5	0.0	0.1	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	7.8	0.0	18.9	0.0	1.6	0.2	0.0
%ile Storage Ratio (RQ%)	0.00	0.01	0.00	0.10	0.00	0.08	0.03	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	53.9
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	12	1002	81	351	809	9	68	1	214	66	47	14
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	13	1089	88	382	879	10	74	1	233	72	51	15
Adj No. of Lanes	1	2	0	1	2	1	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	458	1121	91	394	1070	479	86	1	259	86	227	67
Arrive On Green	0.28	0.36	0.36	0.08	0.11	0.11	0.05	0.18	0.18	0.05	0.18	0.18
Sat Flow, veh/h	1645	3076	248	1645	3282	1468	1645	6	1463	1645	1283	377
Grp Volume(v), veh/h	13	581	596	382	879	10	74	0	234	72	0	66
Grp Sat Flow(s),veh/h/ln	1645	1641	1683	1645	1641	1468	1645	0	1469	1645	0	1661
Q Serve(g_s), s	0.6	33.4	33.5	22.2	25.2	0.5	4.3	0.0	15.0	4.2	0.0	3.3
Cycle Q Clear(g_c), s	0.6	33.4	33.5	22.2	25.2	0.5	4.3	0.0	15.0	4.2	0.0	3.3
Prop In Lane	1.00		0.15	1.00		1.00	1.00		1.00	1.00		0.23
Lane Grp Cap(c), veh/h	458	598	614	394	1070	479	86	0	260	86	0	294
V/C Ratio(X)	0.03	0.97	0.97	0.97	0.82	0.02	0.86	0.00	0.90	0.84	0.00	0.22
Avail Cap(c_a), veh/h	458	598	614	394	1846	826	86	0	260	86	0	294
HCM Platoon Ratio	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.56	0.56	0.56	0.88	0.88	0.88	0.62	0.00	0.62	1.00	0.00	1.00
Uniform Delay (d), s/veh	25.2	30.0	30.0	43.9	40.1	18.6	45.2	0.0	38.7	45.1	0.0	33.9
Incr Delay (d2), s/veh	0.0	20.7	20.6	34.4	1.4	0.0	39.6	0.0	24.9	49.2	0.0	1.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	18.4	18.9	13.9	11.7	0.2	2.9	0.0	7.8	3.1	0.0	1.6
LnGrp Delay(d),s/veh	25.2	50.6	50.6	78.3	41.6	18.6	84.8	0.0	63.5	94.3	0.0	35.6
LnGrp LOS	C	D	D	E	D	B	F		E	F		D
Approach Vol, veh/h		1190			1271			308			138	
Approach Delay, s/veh		50.3			52.4			68.6			66.2	
Approach LOS		D			D			E			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.0	21.0	27.0	39.0	9.0	21.0	30.7	35.3
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	5.0	17.0	23.0	35.0	5.0	17.0	4.0	54.0
Max Q Clear Time (g_c+I1), s	6.2	17.0	24.2	35.5	6.3	5.3	2.6	27.2
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	0.9	0.8	4.1

Intersection Summary	
HCM 2010 Ctrl Delay	53.9
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL2	NBL	NBR	SEL	SER	SER2
Lane Configurations												
Volume (veh/h)	1	1080	82	124	836	1	0	17	68	0	0	0
Number	7	4	14	3	8	18	5	5	12	1	16	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	1	1174	89	135	909	1	0	0	74	0	0	0
Adj No. of Lanes	1	2	1	1	2	0	1	1	0	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes	Yes		Yes		
Cap, veh/h	2	1317	589	190	1735	2	589	589	99	386	2	2
HCM Platoon Ratio	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.00	0.40	0.40	0.23	1.00	1.00	0.00	0.00	0.08	0.00	0.00	0.00
Ln Grp Delay, s/veh	99.3	28.4	18.3	39.2	0.3	0.3	0.0	0.0	76.0	0.0	0.0	0.0
Ln Grp LOS	F	C	B	D	A	A			E			
Approach Vol, veh/h		1264			1045		92	92		0		
Approach Delay, s/veh		27.8			5.4		76.0	76.0		0.0		
Approach LOS		C			A		E	E				

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	6	5	7	8
Case No	4.0	2.0	3.0	2.0	3.0	2.0	2.0	4.0
Phs Duration (G+Y+Rc), s	11.9	26.5	42.5	15.1	0.0	38.4	4.1	53.5
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	16.0	4.0	45.0	15.0	16.0	4.0	4.0	56.0
Max Allow Headway (MAH), s	4.3	0.0	4.0	4.0	0.0	0.0	4.1	4.0
Max Q Clear (g_c+I1), s	7.7	0.0	34.0	9.2	0.0	0.0	2.1	2.0
Green Ext Time (g_e), s	0.1	0.0	4.5	2.2	0.0	0.0	0.0	4.3
Prob of Phs Call (p_c)	1.00	0.00	1.00	0.97	0.00	0.00	0.03	1.00
Prob of Max Out (p_x)	0.02	0.00	0.34	0.72	0.00	0.00	1.00	0.00

Left-Turn Movement Data								
Assigned Mvmt		1		3		5	7	
Mvmt Sat Flow, veh/h		1645		1645		1645	1645	

Through Movement Data								
Assigned Mvmt	2		4		6			8
Mvmt Sat Flow, veh/h	296		3282		1727			3364

Right-Turn Movement Data								
Assigned Mvmt	12		14		16			18
Mvmt Sat Flow, veh/h	1217		1468		1468			4

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	0	5	7	0
Lane Assignment		(Prot)		(Prot)		(Prot)	(Prot)	
Lanes in Grp	0	1	0	1	0	1	1	0

Grp Vol (v), veh/h	0	0	0	135	0	0	1	0
Grp Sat Flow (s), veh/h/ln	0	1645	0	1645	0	1645	1645	0
Q Serve Time (g_s), s	0.0	0.0	0.0	7.2	0.0	0.0	0.1	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	7.2	0.0	0.0	0.1	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	386	0	190	0	589	2	0
V/C Ratio (X)	0.00	0.00	0.00	0.71	0.00	0.00	0.55	0.00
Avail Cap (c_a), veh/h	0	386	0	257	0	589	69	0
Upstream Filter (I)	0.00	0.00	0.00	0.66	0.00	0.00	0.24	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	35.4	0.0	0.0	47.9	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	3.8	0.0	0.0	51.4	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	39.2	0.0	0.0	99.3	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	3.5	0.0	0.0	0.1	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	6	0	0	8
Lane Assignment			T		T			T
Lanes in Grp	0	0	2	0	1	0	0	1
Grp Vol (v), veh/h	0	0	1174	0	0	0	0	443
Grp Sat Flow (s), veh/h/ln	0	0	1641	0	1727	0	0	1641
Q Serve Time (g_s), s	0.0	0.0	32.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	32.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	1317	0	2	0	0	847
V/C Ratio (X)	0.00	0.00	0.89	0.00	0.00	0.00	0.00	0.52
Avail Cap (c_a), veh/h	0	0	1538	0	288	0	0	957
Upstream Filter (I)	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.66
Uniform Delay (d1), s/veh	0.0	0.0	26.8	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	28.4	0.0	0.0	0.0	0.0	0.3
1st-Term Q (Q1), veh/ln	0.0	0.0	14.3	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.1

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	14.6	0.0	0.0	0.0	0.0	0.1
%ile Storage Ratio (RQ%)	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	16	0	0	18
Lane Assignment	T+R		R		R			T+R
Lanes in Grp	1	0	1	0	1	0	0	1
Grp Vol (v), veh/h	92	0	89	0	0	0	0	467
Grp Sat Flow (s), veh/h/ln	1513	0	1468	0	1468	0	0	1727
Q Serve Time (g_s), s	5.7	0.0	3.7	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	5.7	0.0	3.7	0.0	0.0	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.80	0.00	1.00	0.00	1.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	124	0	589	0	2	0	0	891
V/C Ratio (X)	0.74	0.00	0.15	0.00	0.00	0.00	0.00	0.52
Avail Cap (c_a), veh/h	252	0	688	0	245	0	0	1007
Upstream Filter (I)	1.00	0.00	0.24	0.00	0.00	0.00	0.00	0.66
Uniform Delay (d1), s/veh	43.1	0.0	18.3	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	32.9	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	76.0	0.0	18.3	0.0	0.0	0.0	0.0	0.3
1st-Term Q (Q1), veh/ln	2.4	0.0	1.5	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	3.5	0.0	1.5	0.0	0.0	0.0	0.0	0.1
%ile Storage Ratio (RQ%)	0.03	0.00	0.03	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	19.9
HCM 2010 LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL2	NBL	NBR	SEL	SER	SER2
Lane Configurations												
Volume (veh/h)	1	1080	82	124	836	1	0	17	68	0	0	0
Number	7	4	14	3	8	18	5	5	12	1	16	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	1	1174	89	135	909	1	0	0	74	0	0	0
Adj No. of Lanes	1	2	1	1	2	0	1	1	0	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	2	1317	589	190	1735	2	589	589	99	386	2	2
Arrive On Green	0.00	0.40	0.40	0.23	1.00	1.00	0.00	0.00	0.08	0.00	0.00	0.00
Sat Flow, veh/h	1645	3282	1468	1645	3364	4	1645	1645	1217	1645	1468	1468
Grp Volume(v), veh/h	1	1174	89	135	443	467	0	0	92	0	0	0
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1641	1727	1645	1645	1513	1645	1468	1468
Q Serve(g_s), s	0.1	32.0	3.7	7.2	0.0	0.0	0.0	0.0	5.7	0.0	0.0	0.0
Cycle Q Clear(g_c), s	0.1	32.0	3.7	7.2	0.0	0.0	0.0	0.0	5.7	0.0	0.0	0.0
Prop In Lane	1.00		1.00	1.00		0.00	1.00	1.00	0.80	1.00	1.00	1.00
Lane Grp Cap(c), veh/h	2	1317	589	190	847	891	589	589	124	386	2	2
V/C Ratio(X)	0.55	0.89	0.15	0.71	0.52	0.52	0.00	0.00	0.74	0.00	0.00	0.00
Avail Cap(c_a), veh/h	69	1538	688	257	957	1007	589	589	252	386	245	245
HCM Platoon Ratio	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.24	0.24	0.24	0.66	0.66	0.66	0.00	0.00	1.00	0.00	0.00	0.00
Uniform Delay (d), s/veh	47.9	26.8	18.3	35.4	0.0	0.0	0.0	0.0	43.1	0.0	0.0	0.0
Incr Delay (d2), s/veh	51.4	1.6	0.0	3.8	0.3	0.3	0.0	0.0	32.9	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	14.6	1.5	3.5	0.1	0.1	0.0	0.0	3.5	0.0	0.0	0.0
LnGrp Delay(d),s/veh	99.3	28.4	18.3	39.2	0.3	0.3	0.0	0.0	76.0	0.0	0.0	0.0
LnGrp LOS	F	C	B	D	A	A			E			
Approach Vol, veh/h		1264			1045		92	92		0		
Approach Delay, s/veh		27.8			5.4		76.0	76.0		0.0		
Approach LOS		C			A		E	E				

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	26.5	11.9	15.1	42.5	38.4	0.0	4.1	53.5
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	40	16.0	15.0	45.0	4.0	16.0	4.0	56.0
Max Q Clear Time (g_c+I1), s	0	7.7	9.2	34.0	0.0	0.0	2.1	2.0
Green Ext Time (p_c), s	0.0	0.1	2.2	4.5	0.0	0.0	0.0	4.3

Intersection Summary	
HCM 2010 Ctrl Delay	19.9
HCM 2010 LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL2	SBL	SBR	NWL	NWR	NWR2
Lane Configurations												
Volume (veh/h)	110	694	255	0	1039	33	0	152	145	0	0	0
Number	7	4	14	3	8	18	1	1	16	5	12	12
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	0	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	120	754	277	0	1129	36	0	0	158	0	0	0
Adj No. of Lanes	1	2	1	0	3	1	2	2	1	2	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	0	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			No			Yes	Yes		Yes		
Cap, veh/h	211	1520	680	0	1382	430	150	150	666	150	666	666
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.13	0.46	0.46	0.00	0.29	0.29	0.00	0.00	0.45	0.00	0.00	0.00
Ln Grp Delay, s/veh	40.4	18.1	17.2	0.0	32.8	24.6	0.0	0.0	16.2	0.0	0.0	0.0
Ln Grp LOS	D	B	B		C	C			B			
Approach Vol, veh/h		1151			1165		158	158		0		
Approach Delay, s/veh		20.2			32.6		16.2	16.2		0.0		
Approach LOS		C			C		B	B				

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6	8	7
Case No		5.0		3.0		5.0	7.0	2.0
Phs Duration (G+Y+Rc), s		47.5		48.5		47.5	32.1	16.3
Change Period (Y+Rc), s		4.0		4.0		4.0	4.0	4.0
Max Green (Gmax), s		24.0		64.0		24.0	38.0	22.0
Max Allow Headway (MAH), s		0.0		4.1		4.4	4.0	4.1
Max Q Clear (g_c+I1), s		0.0		17.4		8.3	23.4	8.6
Green Ext Time (g_e), s		0.0		5.5		0.5	4.8	4.3
Prob of Phs Call (p_c)		1.00		1.00		1.00	1.00	0.96
Prob of Max Out (p_x)		0.00		0.00		0.00	0.14	0.19

Left-Turn Movement Data								
Assigned Mvmt		5				1	3	7
Mvmt Sat Flow, veh/h		1893				3191	0	1645

Through Movement Data								
Assigned Mvmt		2		4		6	8	
Mvmt Sat Flow, veh/h		3040		3282		0	4871	

Right-Turn Movement Data								
Assigned Mvmt		12		14		16	18	
Mvmt Sat Flow, veh/h		1468		1468		1468	1468	

Left Lane Group Data								
Assigned Mvmt	0	5	0	0	0	1	3	7
Lane Assignment								(Prot)
Lanes in Grp	0	2	0	0	0	2	0	1

Grp Vol (v), veh/h	0	0	0	0	0	0	0	120
Grp Sat Flow (s), veh/h/ln	0	947	0	0	0	1596	0	1645
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6
Perm LT Sat Flow (s_l), veh/h/ln	0	947	0	0	0	1596	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	28.1	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	150	0	0	0	150	0	211
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57
Avail Cap (c_a), veh/h	0	150	0	0	0	150	0	377
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.3
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.4
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	8	0
Lane Assignment		T		T			T	
Lanes in Grp	0	2	0	2	0	0	3	0
Grp Vol (v), veh/h	0	0	0	754	0	0	1129	0
Grp Sat Flow (s), veh/h/ln	0	1520	0	1641	0	0	1572	0
Q Serve Time (g_s), s	0.0	0.0	0.0	15.4	0.0	0.0	21.4	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	15.4	0.0	0.0	21.4	0.0
Lane Grp Cap (c), veh/h	0	1379	0	1520	0	0	1382	0
V/C Ratio (X)	0.00	0.00	0.00	0.50	0.00	0.00	0.82	0.00
Avail Cap (c_a), veh/h	0	1379	0	2188	0	0	1867	0
Upstream Filter (I)	0.00	0.00	0.00	0.44	0.00	0.00	0.59	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	18.0	0.0	0.0	31.5	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.1	0.0	0.0	1.3	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	18.1	0.0	0.0	32.8	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	6.9	0.0	0.0	9.2	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	6.9	0.0	0.0	9.4	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.14	0.00	0.00	0.13	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

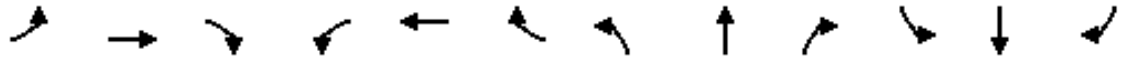
Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	18	0
Lane Assignment		R		R		R	R	
Lanes in Grp	0	1	0	1	0	1	1	0
Grp Vol (v), veh/h	0	0	0	277	0	158	36	0
Grp Sat Flow (s), veh/h/ln	0	1468	0	1468	0	1468	1468	0
Q Serve Time (g_s), s	0.0	0.0	0.0	12.0	0.0	6.3	1.7	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	12.0	0.0	6.3	1.7	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	666	0	680	0	666	430	0
V/C Ratio (X)	0.00	0.00	0.00	0.41	0.00	0.24	0.08	0.00
Avail Cap (c_a), veh/h	0	666	0	979	0	666	581	0
Upstream Filter (I)	0.00	0.00	0.00	0.44	0.00	1.00	0.59	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	17.1	0.0	16.1	24.6	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	17.2	0.0	16.2	24.6	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	4.8	0.0	6.5	0.7	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	4.9	0.0	6.5	0.7	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.10	0.00	0.08	0.09	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	25.8
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL2	SBL	SBR	NWL	NWR	NWR2
Lane Configurations												
Volume (veh/h)	110	694	255	0	1039	33	0	152	145	0	0	0
Number	7	4	14	3	8	18	1	1	16	5	12	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	0	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	120	754	277	0	1129	36	0	0	158	0	0	0
Adj No. of Lanes	1	2	1	0	3	1	2	2	1	2	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	0	10	10	10	10	10	10	10	10
Cap, veh/h	211	1520	680	0	1382	430	150	150	666	150	666	666
Arrive On Green	0.13	0.46	0.46	0.00	0.29	0.29	0.00	0.00	0.45	0.00	0.00	0.00
Sat Flow, veh/h	1645	3282	1468	0	4871	1468	3191	3191	1468	1893	1468	1468
Grp Volume(v), veh/h	120	754	277	0	1129	36	0	0	158	0	0	0
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	0	1572	1468	1596	1596	1468	947	1468	1468
Q Serve(g_s), s	6.6	15.4	12.0	0.0	21.4	1.7	0.0	0.0	6.3	0.0	0.0	0.0
Cycle Q Clear(g_c), s	6.6	15.4	12.0	0.0	21.4	1.7	0.0	0.0	6.3	0.0	0.0	0.0
Prop In Lane	1.00		1.00	0.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lane Grp Cap(c), veh/h	211	1520	680	0	1382	430	150	150	666	150	666	666
V/C Ratio(X)	0.57	0.50	0.41	0.00	0.82	0.08	0.00	0.00	0.24	0.00	0.00	0.00
Avail Cap(c_a), veh/h	377	2188	979	0	1867	581	150	150	666	150	666	666
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.44	0.44	0.44	0.00	0.59	0.59	0.00	0.00	1.00	0.00	0.00	0.00
Uniform Delay (d), s/veh	39.3	18.0	17.1	0.0	31.5	24.6	0.0	0.0	16.1	0.0	0.0	0.0
Incr Delay (d2), s/veh	1.1	0.1	0.2	0.0	1.3	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.1	6.9	4.9	0.0	9.4	0.7	0.0	0.0	6.5	0.0	0.0	0.0
LnGrp Delay(d),s/veh	40.4	18.1	17.2	0.0	32.8	24.6	0.0	0.0	16.2	0.0	0.0	0.0
LnGrp LOS	D	B	B		C	C			B			
Approach Vol, veh/h		1151			1165		158	158		0		
Approach Delay, s/veh		20.2			32.6		16.2	16.2		0.0		
Approach LOS		C			C		B	B				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6	7	8
Phs Duration (G+Y+Rc), s		47.5		48.5		47.5	16.3	32.1
Change Period (Y+Rc), s		4.0		4.0		4.0	4.0	4.0
Max Green Setting (Gmax), s		24.0		64.0		24.0	22.0	38.0
Max Q Clear Time (g_c+I1), s		0.0		17.4		8.3	8.6	23.4
Green Ext Time (p_c), s		0.0		5.5		0.5	4.3	4.8

Intersection Summary	
HCM 2010 Ctrl Delay	25.8
HCM 2010 LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	427	653	60	150	594	141	94	474	111	90	263	88
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	464	710	65	163	646	153	102	515	121	98	286	96
Adj No. of Lanes	2	2	1	2	2	1	2	1	1	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	713	1094	489	404	776	347	157	564	479	151	1064	476
HCM Platoon Ratio	0.67	0.67	0.67	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.15	0.22	0.22	0.13	0.24	0.24	0.05	0.33	0.33	0.05	0.32	0.32
Ln Grp Delay, s/veh	39.1	34.8	17.3	39.3	42.6	32.1	49.3	48.6	11.5	52.5	24.1	23.7
Ln Grp LOS	D	C	B	D	D	C	D	D	B	D	C	C
Approach Vol, veh/h		1239			962			738			480	
Approach Delay, s/veh		35.5			40.4			42.6			29.8	
Approach LOS		D			D			D			C	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	5	6	7	8
Case No	2.0	3.0	3.0	2.0	2.0	3.0	2.0	3.0
Phs Duration (G+Y+Rc), s	8.5	35.3	36.0	16.1	8.7	35.1	25.5	26.7
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	5.0	34.0	32.0	9.0	7.0	32.0	19.0	22.0
Max Allow Headway (MAH), s	4.1	4.1	4.0	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	4.9	29.5	20.9	6.5	5.0	8.2	15.1	20.0
Green Ext Time (g_e), s	0.0	1.8	2.6	0.2	0.1	4.2	0.8	0.9
Prob of Phs Call (p_c)	0.93	1.00	1.00	0.99	0.93	1.00	1.00	1.00
Prob of Max Out (p_x)	1.00	0.92	0.00	1.00	1.00	0.02	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt	1			3	5		7	
Mvmt Sat Flow, veh/h	3191			3191	3191		3191	

Through Movement Data								
Assigned Mvmt		2	4			6		8
Mvmt Sat Flow, veh/h		1727	3282			3282		3282

Right-Turn Movement Data								
Assigned Mvmt		12	14			16		18
Mvmt Sat Flow, veh/h		1468	1468			1468		1468

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	5	0	7	0
Lane Assignment	(Prot)			(Prot)	(Prot)		(Prot)	
Lanes in Grp	2	0	0	2	2	0	2	0

Grp Vol (v), veh/h	98	0	0	163	102	0	464	0
Grp Sat Flow (s), veh/h/ln	1596	0	0	1596	1596	0	1596	0
Q Serve Time (g_s), s	2.9	0.0	0.0	4.5	3.0	0.0	13.1	0.0
Cycle Q Clear Time (g_c), s	2.9	0.0	0.0	4.5	3.0	0.0	13.1	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	151	0	0	404	157	0	713	0
V/C Ratio (X)	0.65	0.00	0.00	0.40	0.65	0.00	0.65	0.00
Avail Cap (c_a), veh/h	166	0	0	404	233	0	713	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	1.00	0.00	0.88	0.00
Uniform Delay (d1), s/veh	44.9	0.0	0.0	38.6	44.8	0.0	37.3	0.0
Incr Delay (d2), s/veh	7.5	0.0	0.0	0.7	4.4	0.0	1.8	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	52.5	0.0	0.0	39.3	49.3	0.0	39.1	0.0
1st-Term Q (Q1), veh/ln	1.3	0.0	0.0	2.0	1.3	0.0	5.8	0.0
2nd-Term Q (Q2), veh/ln	0.2	0.0	0.0	0.0	0.1	0.0	0.2	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	1.4	0.0	0.0	2.0	1.4	0.0	6.0	0.0
%ile Storage Ratio (RQ%)	0.16	0.00	0.00	0.25	0.07	0.00	0.77	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	0	6	0	8
Lane Assignment		T	T			T		T
Lanes in Grp	0	1	2	0	0	2	0	2
Grp Vol (v), veh/h	0	515	710	0	0	286	0	646
Grp Sat Flow (s), veh/h/ln	0	1727	1641	0	0	1641	0	1641
Q Serve Time (g_s), s	0.0	27.5	18.9	0.0	0.0	6.2	0.0	18.0
Cycle Q Clear Time (g_c), s	0.0	27.5	18.9	0.0	0.0	6.2	0.0	18.0
Lane Grp Cap (c), veh/h	0	564	1094	0	0	1064	0	776
V/C Ratio (X)	0.00	0.91	0.65	0.00	0.00	0.27	0.00	0.83
Avail Cap (c_a), veh/h	0	612	1094	0	0	1094	0	776
Upstream Filter (I)	0.00	1.00	0.88	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	31.0	32.2	0.0	0.0	24.0	0.0	34.9
Incr Delay (d2), s/veh	0.0	17.6	2.6	0.0	0.0	0.1	0.0	7.7
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	48.6	34.8	0.0	0.0	24.1	0.0	42.6
1st-Term Q (Q1), veh/ln	0.0	13.0	8.5	0.0	0.0	2.8	0.0	8.2
2nd-Term Q (Q2), veh/ln	0.0	2.7	0.4	0.0	0.0	0.0	0.0	0.8

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	15.8	8.9	0.0	0.0	2.8	0.0	9.0
%ile Storage Ratio (RQ%)	0.00	0.13	0.12	0.00	0.00	0.01	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	14	0	0	16	0	18
Lane Assignment		R	R			R		R
Lanes in Grp	0	1	1	0	0	1	0	1
Grp Vol (v), veh/h	0	121	65	0	0	96	0	153
Grp Sat Flow (s), veh/h/ln	0	1468	1468	0	0	1468	0	1468
Q Serve Time (g_s), s	0.0	4.0	2.7	0.0	0.0	4.5	0.0	8.5
Cycle Q Clear Time (g_c), s	0.0	4.0	2.7	0.0	0.0	4.5	0.0	8.5
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	479	489	0	0	476	0	347
V/C Ratio (X)	0.00	0.25	0.13	0.00	0.00	0.20	0.00	0.44
Avail Cap (c_a), veh/h	0	520	489	0	0	489	0	347
Upstream Filter (I)	0.00	1.00	0.88	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	11.3	16.8	0.0	0.0	23.5	0.0	31.2
Incr Delay (d2), s/veh	0.0	0.3	0.5	0.0	0.0	0.2	0.0	0.9
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	11.5	17.3	0.0	0.0	23.7	0.0	32.1
1st-Term Q (Q1), veh/ln	0.0	1.6	1.1	0.0	0.0	1.8	0.0	3.5
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.6	1.2	0.0	0.0	1.9	0.0	3.5
%ile Storage Ratio (RQ%)	0.00	0.13	0.15	0.00	0.00	0.21	0.00	0.43
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	37.6
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	427	653	60	150	594	141	94	474	111	90	263	88
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	464	710	65	163	646	153	102	515	121	98	286	96
Adj No. of Lanes	2	2	1	2	2	1	2	1	1	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	713	1094	489	404	776	347	157	564	479	151	1064	476
Arrive On Green	0.15	0.22	0.22	0.13	0.24	0.24	0.05	0.33	0.33	0.05	0.32	0.32
Sat Flow, veh/h	3191	3282	1468	3191	3282	1468	3191	1727	1468	3191	3282	1468
Grp Volume(v), veh/h	464	710	65	163	646	153	102	515	121	98	286	96
Grp Sat Flow(s),veh/h/ln	1596	1641	1468	1596	1641	1468	1596	1727	1468	1596	1641	1468
Q Serve(g_s), s	13.1	18.9	2.7	4.5	18.0	8.5	3.0	27.5	4.0	2.9	6.2	4.5
Cycle Q Clear(g_c), s	13.1	18.9	2.7	4.5	18.0	8.5	3.0	27.5	4.0	2.9	6.2	4.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	713	1094	489	404	776	347	157	564	479	151	1064	476
V/C Ratio(X)	0.65	0.65	0.13	0.40	0.83	0.44	0.65	0.91	0.25	0.65	0.27	0.20
Avail Cap(c_a), veh/h	713	1094	489	404	776	347	233	612	520	166	1094	489
HCM Platoon Ratio	0.67	0.67	0.67	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.88	0.88	0.88	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	37.3	32.2	16.8	38.6	34.9	31.2	44.8	31.0	11.3	44.9	24.0	23.5
Incr Delay (d2), s/veh	1.8	2.6	0.5	0.7	7.7	0.9	4.4	17.6	0.3	7.5	0.1	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.0	8.9	1.2	2.0	9.0	3.5	1.4	15.8	1.6	1.4	2.8	1.9
LnGrp Delay(d),s/veh	39.1	34.8	17.3	39.3	42.6	32.1	49.3	48.6	11.5	52.5	24.1	23.7
LnGrp LOS	D	C	B	D	D	C	D	D	B	D	C	C
Approach Vol, veh/h		1239			962			738			480	
Approach Delay, s/veh		35.5			40.4			42.6			29.8	
Approach LOS		D			D			D			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.5	35.3	16.1	36.0	8.7	35.1	25.5	26.7
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	5.0	34.0	9.0	32.0	7.0	32.0	19.0	22.0
Max Q Clear Time (g_c+I1), s	4.9	29.5	6.5	20.9	5.0	8.2	15.1	20.0
Green Ext Time (p_c), s	0.0	1.8	0.2	2.6	0.1	4.2	0.8	0.9

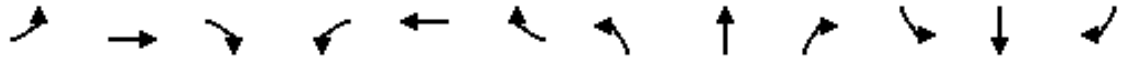
Intersection Summary	
HCM 2010 Ctrl Delay	37.6
HCM 2010 LOS	D

Intersection	
Intersection Delay, s/veh	34.9
Intersection LOS	D

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Vol, veh/h	0	114	325	166	0	50	211	17	0	40	61	58	0	17	223	162
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	124	353	180	0	54	229	18	0	43	66	63	0	18	242	176
Number of Lanes	0	0	1	1	0	0	1	1	0	0	1	0	0	0	1	1

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	2	2	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	2	1	2	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	2	2	2
HCM Control Delay	54.7	24.3	17.9	19.1
HCM LOS	F	C	C	C

Lane	NBLn1	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1	SBLn2
Vol Left, %	25%	26%	0%	19%	0%	7%	0%
Vol Thru, %	38%	74%	0%	81%	0%	93%	0%
Vol Right, %	36%	0%	100%	0%	100%	0%	100%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	159	439	166	261	17	240	162
LT Vol	40	114	0	50	0	17	0
Through Vol	61	325	0	211	0	223	0
RT Vol	58	0	166	0	17	0	162
Lane Flow Rate	173	477	180	284	18	261	176
Geometry Grp	6	7	7	7	7	7	7
Degree of Util (X)	0.417	1	0.354	0.65	0.038	0.593	0.363
Departure Headway (Hd)	8.68	7.909	7.053	8.246	7.422	8.185	7.427
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	415	463	512	437	479	441	482
Service Time	6.746	5.609	4.753	6.016	5.217	5.94	5.206
HCM Lane V/C Ratio	0.417	1.03	0.352	0.65	0.038	0.592	0.365
HCM Control Delay	17.9	70.3	13.6	25.2	10.5	22.2	14.4
HCM Lane LOS	C	F	B	D	B	C	B
HCM 95th-tile Q	2	13.1	1.6	4.5	0.1	3.7	1.6



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	69	153	27	107	167	89	67	173	17	86	296	43
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	75	166	29	116	182	97	73	188	18	93	322	47
Adj No. of Lanes	1	2	0	1	2	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	101	259	44	146	252	129	92	269	25	908	1683	243
HCM Platoon Ratio	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.06	0.09	0.09	0.03	0.04	0.04	0.06	0.09	0.09	0.55	0.58	0.58
Ln Grp Delay, s/veh	51.7	43.7	44.2	51.5	46.1	47.7	55.9	63.7	64.5	9.6	9.2	9.2
Ln Grp LOS	D	D	D	D	D	D	E	E	E	A	A	A
Approach Vol, veh/h		270			395			279			462	
Approach Delay, s/veh		46.1			48.2			62.0			9.3	
Approach LOS		D			D			E			A	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	5	6	8	7
Case No	4.0	2.0	2.0	4.0	2.0	4.0	4.0	2.0
Phs Duration (G+Y+Rc), s	12.0	53.7	12.0	12.3	9.0	56.6	14.8	9.5
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	20.0	19.0	16.0	19.0	12.0	27.0	22.0	13.0
Max Allow Headway (MAH), s	4.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	7.5	4.4	8.3	7.2	5.9	6.8	10.1	6.0
Green Ext Time (g_e), s	0.5	1.4	0.2	0.7	0.1	1.5	0.7	0.5
Prob of Phs Call (p_c)	1.00	1.00	0.94	1.00	0.84	1.00	1.00	0.85
Prob of Max Out (p_x)	0.00	0.01	0.04	0.01	0.12	0.00	0.01	0.17

Left-Turn Movement Data								
Assigned Mvmt		1	3		5			7
Mvmt Sat Flow, veh/h		1645	1645		1645			1645

Through Movement Data								
Assigned Mvmt	2			4		6	8	
Mvmt Sat Flow, veh/h	3030			2803		2879	2105	

Right-Turn Movement Data								
Assigned Mvmt	12			14		16	18	
Mvmt Sat Flow, veh/h	287			481		416	1073	

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	5	0	0	7
Lane Assignment		(Prot)	(Prot)		(Prot)			(Prot)
Lanes in Grp	0	1	1	0	1	0	0	1

Grp Vol (v), veh/h	0	93	116	0	73	0	0	75
Grp Sat Flow (s), veh/h/ln	0	1645	1645	0	1645	0	0	1645
Q Serve Time (g_s), s	0.0	2.4	6.3	0.0	3.9	0.0	0.0	4.0
Cycle Q Clear Time (g_c), s	0.0	2.4	6.3	0.0	3.9	0.0	0.0	4.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	908	146	0	92	0	0	101
V/C Ratio (X)	0.00	0.10	0.79	0.00	0.79	0.00	0.00	0.74
Avail Cap (c_a), veh/h	0	908	292	0	219	0	0	238
Upstream Filter (I)	0.00	1.00	0.94	0.00	1.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	9.6	42.8	0.0	42.0	0.0	0.0	41.5
Incr Delay (d2), s/veh	0.0	0.0	8.7	0.0	13.9	0.0	0.0	10.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	9.6	51.5	0.0	55.9	0.0	0.0	51.7
1st-Term Q (Q1), veh/ln	0.0	1.1	2.9	0.0	1.8	0.0	0.0	1.8
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.4	0.0	0.4	0.0	0.0	0.3
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.1	3.2	0.0	2.1	0.0	0.0	2.1
%ile Storage Ratio (RQ%)	0.00	0.22	0.51	0.00	0.28	0.00	0.00	0.29
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	0	6	8	0
Lane Assignment	T			T		T	T	
Lanes in Grp	1	0	0	1	0	1	1	0
Grp Vol (v), veh/h	101	0	0	96	0	182	140	0
Grp Sat Flow (s), veh/h/ln	1641	0	0	1641	0	1641	1641	0
Q Serve Time (g_s), s	5.4	0.0	0.0	5.1	0.0	4.7	7.6	0.0
Cycle Q Clear Time (g_c), s	5.4	0.0	0.0	5.1	0.0	4.7	7.6	0.0
Lane Grp Cap (c), veh/h	145	0	0	151	0	960	197	0
V/C Ratio (X)	0.69	0.00	0.00	0.63	0.00	0.19	0.71	0.00
Avail Cap (c_a), veh/h	365	0	0	346	0	960	401	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	1.00	0.94	0.00
Uniform Delay (d1), s/veh	39.8	0.0	0.0	39.4	0.0	8.7	41.7	0.0
Incr Delay (d2), s/veh	23.9	0.0	0.0	4.3	0.0	0.4	4.4	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	63.7	0.0	0.0	43.7	0.0	9.2	46.1	0.0
1st-Term Q (Q1), veh/ln	2.4	0.0	0.0	2.3	0.0	2.1	3.5	0.0
2nd-Term Q (Q2), veh/ln	1.0	0.0	0.0	0.2	0.0	0.1	0.2	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	3.4	0.0	0.0	2.5	0.0	2.2	3.7	0.0
%ile Storage Ratio (RQ%)	0.21	0.00	0.00	0.01	0.00	0.01	0.04	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

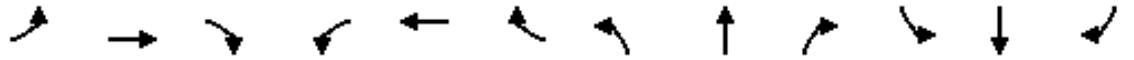
Right Lane Group Data								
Assigned Mvmt	12	0	0	14	0	16	18	0
Lane Assignment	T+R			T+R		T+R	T+R	
Lanes in Grp	1	0	0	1	0	1	1	0
Grp Vol (v), veh/h	105	0	0	99	0	187	139	0
Grp Sat Flow (s), veh/h/ln	1677	0	0	1642	0	1654	1538	0
Q Serve Time (g_s), s	5.5	0.0	0.0	5.2	0.0	4.8	8.1	0.0
Cycle Q Clear Time (g_c), s	5.5	0.0	0.0	5.2	0.0	4.8	8.1	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.17	0.00	0.00	0.29	0.00	0.25	0.70	0.00
Lane Grp Cap (c), veh/h	149	0	0	152	0	967	184	0
V/C Ratio (X)	0.71	0.00	0.00	0.65	0.00	0.19	0.75	0.00
Avail Cap (c_a), veh/h	373	0	0	347	0	967	376	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	1.00	0.94	0.00
Uniform Delay (d1), s/veh	39.9	0.0	0.0	39.5	0.0	8.7	41.9	0.0
Incr Delay (d2), s/veh	24.6	0.0	0.0	4.7	0.0	0.4	5.8	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	64.5	0.0	0.0	44.2	0.0	9.2	47.7	0.0
1st-Term Q (Q1), veh/ln	2.5	0.0	0.0	2.4	0.0	2.2	3.4	0.0
2nd-Term Q (Q2), veh/ln	1.0	0.0	0.0	0.2	0.0	0.1	0.3	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	3.6	0.0	0.0	2.6	0.0	2.3	3.7	0.0
%ile Storage Ratio (RQ%)	0.21	0.00	0.00	0.01	0.00	0.01	0.04	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	37.7
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	69	153	27	107	167	89	67	173	17	86	296	43
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	75	166	29	116	182	97	73	188	18	93	322	47
Adj No. of Lanes	1	2	0	1	2	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	101	259	44	146	252	129	92	269	25	908	1683	243
Arrive On Green	0.06	0.09	0.09	0.03	0.04	0.04	0.06	0.09	0.09	0.55	0.58	0.58
Sat Flow, veh/h	1645	2803	481	1645	2105	1073	1645	3030	287	1645	2879	416
Grp Volume(v), veh/h	75	96	99	116	140	139	73	101	105	93	182	187
Grp Sat Flow(s),veh/h/ln	1645	1641	1642	1645	1641	1538	1645	1641	1677	1645	1641	1654
Q Serve(g_s), s	4.0	5.1	5.2	6.3	7.6	8.1	3.9	5.4	5.5	2.4	4.7	4.8
Cycle Q Clear(g_c), s	4.0	5.1	5.2	6.3	7.6	8.1	3.9	5.4	5.5	2.4	4.7	4.8
Prop In Lane	1.00		0.29	1.00		0.70	1.00		0.17	1.00		0.25
Lane Grp Cap(c), veh/h	101	151	152	146	197	184	92	145	149	908	960	967
V/C Ratio(X)	0.74	0.63	0.65	0.79	0.71	0.75	0.79	0.69	0.71	0.10	0.19	0.19
Avail Cap(c_a), veh/h	238	346	347	292	401	376	219	365	373	908	960	967
HCM Platoon Ratio	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.94	0.94	0.94	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	41.5	39.4	39.5	42.8	41.7	41.9	42.0	39.8	39.9	9.6	8.7	8.7
Incr Delay (d2), s/veh	10.2	4.3	4.7	8.7	4.4	5.8	13.9	23.9	24.6	0.0	0.4	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.1	2.5	2.6	3.2	3.7	3.7	2.1	3.4	3.6	1.1	2.2	2.3
LnGrp Delay(d),s/veh	51.7	43.7	44.2	51.5	46.1	47.7	55.9	63.7	64.5	9.6	9.2	9.2
LnGrp LOS	D	D	D	D	D	D	E	E	E	A	A	A
Approach Vol, veh/h		270			395			279			462	
Approach Delay, s/veh		46.1			48.2			62.0			9.3	
Approach LOS		D			D			E			A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	53.7	12.0	12.0	12.3	9.0	56.6	9.5	14.8
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	49.0	20.0	16.0	19.0	12.0	27.0	13.0	22.0
Max Q Clear Time (g_c+I1), s	4.4	7.5	8.3	7.2	5.9	6.8	6.0	10.1
Green Ext Time (p_c), s	1.4	0.5	0.2	0.7	0.1	1.5	0.5	0.7

Intersection Summary	
HCM 2010 Ctrl Delay	37.7
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	74	73	78	294	255	191	82	236	76	203	466	57
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	80	79	85	320	277	208	89	257	83	221	507	62
Adj No. of Lanes	1	2	0	1	2	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	101	310	277	566	856	623	144	328	104	256	594	72
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.06	0.19	0.19	0.34	0.47	0.47	0.09	0.13	0.13	0.16	0.20	0.20
Ln Grp Delay, s/veh	53.4	32.9	33.9	25.4	15.9	16.2	43.8	46.6	49.2	55.7	47.3	47.8
Ln Grp LOS	D	C	C	C	B	B	D	D	D	E	D	D
Approach Vol, veh/h		244			805			429			790	
Approach Delay, s/veh		40.0			19.8			47.0			49.8	
Approach LOS		D			B			D			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	6	5	7	8
Case No	2.0	4.0	4.0	2.0	4.0	2.0	2.0	4.0
Phs Duration (G+Y+Rc), s	18.0	16.0	21.0	35.0	22.1	11.9	9.5	46.4
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	17.0	16.0	17.0	24.0	23.0	10.0	10.0	31.0
Max Allow Headway (MAH), s	4.1	4.1	4.2	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	13.8	11.3	6.5	16.3	17.0	6.7	6.3	10.9
Green Ext Time (g_e), s	0.2	0.7	0.4	2.0	1.1	0.5	0.1	3.0
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	0.89	0.86	1.00
Prob of Max Out (p_x)	1.00	0.78	0.00	0.40	0.50	1.00	1.00	0.00

Left-Turn Movement Data								
Assigned Mvmt	1			3		5	7	
Mvmt Sat Flow, veh/h	1645			1645		1645	1645	

Through Movement Data								
Assigned Mvmt		2	4		6			8
Mvmt Sat Flow, veh/h		2456	1641		2946			1814

Right-Turn Movement Data								
Assigned Mvmt		12	14		16			18
Mvmt Sat Flow, veh/h		775	1468		359			1321

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	0	5	7	0
Lane Assignment	(Prot)			(Prot)		(Prot)	(Prot)	
Lanes in Grp	1	0	0	1	0	1	1	0

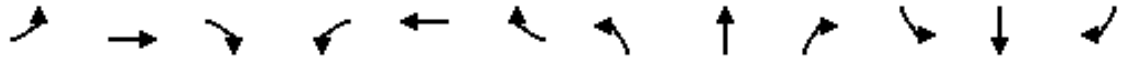
Grp Vol (v), veh/h	221	0	0	320	0	89	80	0
Grp Sat Flow (s), veh/h/ln	1645	0	0	1645	0	1645	1645	0
Q Serve Time (g_s), s	11.8	0.0	0.0	14.3	0.0	4.7	4.3	0.0
Cycle Q Clear Time (g_c), s	11.8	0.0	0.0	14.3	0.0	4.7	4.3	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	256	0	0	566	0	144	101	0
V/C Ratio (X)	0.86	0.00	0.00	0.57	0.00	0.62	0.79	0.00
Avail Cap (c_a), veh/h	311	0	0	566	0	183	183	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	1.00	0.89	0.00
Uniform Delay (d1), s/veh	37.1	0.0	0.0	24.0	0.0	39.6	41.7	0.0
Incr Delay (d2), s/veh	18.6	0.0	0.0	1.3	0.0	4.2	11.7	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	55.7	0.0	0.0	25.4	0.0	43.8	53.4	0.0
1st-Term Q (Q1), veh/ln	5.3	0.0	0.0	6.5	0.0	2.1	2.0	0.0
2nd-Term Q (Q2), veh/ln	1.3	0.0	0.0	0.2	0.0	0.2	0.3	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	6.7	0.0	0.0	6.7	0.0	2.3	2.3	0.0
%ile Storage Ratio (RQ%)	1.75	0.00	0.00	3.06	0.00	0.50	0.34	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	6	0	0	8
Lane Assignment		T	T		T			T
Lanes in Grp	0	1	1	0	1	0	0	1
Grp Vol (v), veh/h	0	170	79	0	282	0	0	250
Grp Sat Flow (s), veh/h/ln	0	1641	1641	0	1641	0	0	1641
Q Serve Time (g_s), s	0.0	9.0	3.7	0.0	14.9	0.0	0.0	8.5
Cycle Q Clear Time (g_c), s	0.0	9.0	3.7	0.0	14.9	0.0	0.0	8.5
Lane Grp Cap (c), veh/h	0	219	310	0	331	0	0	774
V/C Ratio (X)	0.00	0.77	0.25	0.00	0.85	0.00	0.00	0.32
Avail Cap (c_a), veh/h	0	292	310	0	419	0	0	774
Upstream Filter (I)	0.00	1.00	0.89	0.00	1.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	37.7	31.1	0.0	34.6	0.0	0.0	14.8
Incr Delay (d2), s/veh	0.0	8.9	1.8	0.0	12.7	0.0	0.0	1.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	46.6	32.9	0.0	47.3	0.0	0.0	15.9
1st-Term Q (Q1), veh/ln	0.0	4.1	1.7	0.0	6.7	0.0	0.0	3.8
2nd-Term Q (Q2), veh/ln	0.0	0.5	0.2	0.0	1.2	0.0	0.0	0.2

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	4.6	1.8	0.0	7.9	0.0	0.0	4.1
%ile Storage Ratio (RQ%)	0.00	0.29	0.02	0.00	0.05	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	14	0	16	0	0	18
Lane Assignment		T+R	T+R		T+R			T+R
Lanes in Grp	0	1	1	0	1	0	0	1
Grp Vol (v), veh/h	0	170	85	0	287	0	0	235
Grp Sat Flow (s), veh/h/ln	0	1590	1468	0	1664	0	0	1494
Q Serve Time (g_s), s	0.0	9.3	4.5	0.0	15.0	0.0	0.0	8.9
Cycle Q Clear Time (g_c), s	0.0	9.3	4.5	0.0	15.0	0.0	0.0	8.9
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.49	1.00	0.00	0.22	0.00	0.00	0.88
Lane Grp Cap (c), veh/h	0	213	277	0	336	0	0	705
V/C Ratio (X)	0.00	0.80	0.31	0.00	0.86	0.00	0.00	0.33
Avail Cap (c_a), veh/h	0	283	277	0	425	0	0	705
Upstream Filter (I)	0.00	1.00	0.89	0.00	1.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	37.8	31.4	0.0	34.7	0.0	0.0	14.9
Incr Delay (d2), s/veh	0.0	11.4	2.5	0.0	13.1	0.0	0.0	1.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	49.2	33.9	0.0	47.8	0.0	0.0	16.2
1st-Term Q (Q1), veh/ln	0.0	4.1	1.8	0.0	6.9	0.0	0.0	3.7
2nd-Term Q (Q2), veh/ln	0.0	0.7	0.2	0.0	1.2	0.0	0.0	0.2
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	4.8	2.0	0.0	8.1	0.0	0.0	3.9
%ile Storage Ratio (RQ%)	0.00	0.30	0.02	0.00	0.05	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	37.6
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	74	73	78	294	255	191	82	236	76	203	466	57
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	80	79	85	320	277	208	89	257	83	221	507	62
Adj No. of Lanes	1	2	0	1	2	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	101	310	277	566	856	623	144	328	104	256	594	72
Arrive On Green	0.06	0.19	0.19	0.34	0.47	0.47	0.09	0.13	0.13	0.16	0.20	0.20
Sat Flow, veh/h	1645	1641	1468	1645	1814	1321	1645	2456	775	1645	2946	359
Grp Volume(v), veh/h	80	79	85	320	250	235	89	170	170	221	282	287
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1641	1494	1645	1641	1590	1645	1641	1664
Q Serve(g_s), s	4.3	3.7	4.5	14.3	8.5	8.9	4.7	9.0	9.3	11.8	14.9	15.0
Cycle Q Clear(g_c), s	4.3	3.7	4.5	14.3	8.5	8.9	4.7	9.0	9.3	11.8	14.9	15.0
Prop In Lane	1.00		1.00	1.00		0.88	1.00		0.49	1.00		0.22
Lane Grp Cap(c), veh/h	101	310	277	566	774	705	144	219	213	256	331	336
V/C Ratio(X)	0.79	0.25	0.31	0.57	0.32	0.33	0.62	0.77	0.80	0.86	0.85	0.86
Avail Cap(c_a), veh/h	183	310	277	566	774	705	183	292	283	311	419	425
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.89	0.89	0.89	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	41.7	31.1	31.4	24.0	14.8	14.9	39.6	37.7	37.8	37.1	34.6	34.7
Incr Delay (d2), s/veh	11.7	1.8	2.5	1.3	1.1	1.3	4.2	8.9	11.4	18.6	12.7	13.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.3	1.8	2.0	6.7	4.1	3.9	2.3	4.6	4.8	6.7	7.9	8.1
LnGrp Delay(d),s/veh	53.4	32.9	33.9	25.4	15.9	16.2	43.8	46.6	49.2	55.7	47.3	47.8
LnGrp LOS	D	C	C	C	B	B	D	D	D	E	D	D
Approach Vol, veh/h		244			805			429			790	
Approach Delay, s/veh		40.0			19.8			47.0			49.8	
Approach LOS		D			B			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	18.0	16.0	35.0	21.0	11.9	22.1	9.5	46.4
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	14.0	16.0	24.0	17.0	10.0	23.0	10.0	31.0
Max Q Clear Time (g_c+I1), s	13.3	11.3	16.3	6.5	6.7	17.0	6.3	10.9
Green Ext Time (p_c), s	0.2	0.7	2.0	0.4	0.5	1.1	0.1	3.0

Intersection Summary	
HCM 2010 Ctrl Delay	37.6
HCM 2010 LOS	D

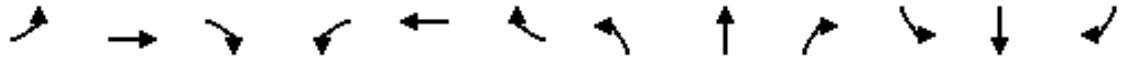
Intersection	
Int Delay, s/veh	3.7

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	80	457	44	45	131	39
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	87	497	48	49	142	42

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	584	0	480	335
Stage 1	-	-	-	-	335	-
Stage 2	-	-	-	-	145	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	952	-	530	689
Stage 1	-	-	-	-	707	-
Stage 2	-	-	-	-	863	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	952	-	502	689
Mov Cap-2 Maneuver	-	-	-	-	502	-
Stage 1	-	-	-	-	707	-
Stage 2	-	-	-	-	818	-

Approach	EB	WB	NB
HCM Control Delay, s	0	4.4	15.2
HCM LOS			C

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	535	-	-	952	-
HCM Lane V/C Ratio	0.345	-	-	0.05	-
HCM Control Delay (s)	15.2	-	-	9	0
HCM Lane LOS	C	-	-	A	A
HCM 95th %tile Q(veh)	1.5	-	-	0.2	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	277	812	134	378	729	271	231	718	228	164	716	100
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	301	883	146	411	792	295	251	780	248	178	778	109
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	288	766	343	329	848	379	260	662	563	160	902	404
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.17	0.23	0.23	0.20	0.26	0.26	0.16	0.38	0.38	0.05	0.28	0.28
Ln Grp Delay, s/veh	115.0	129.5	40.0	162.6	45.8	30.3	95.8	132.2	11.3	138.8	46.3	34.8
Ln Grp LOS	F	F	D	F	D	C	F	F	B	F	D	C
Approach Vol, veh/h		1330			1498			1279			1065	
Approach Delay, s/veh		116.4			74.8			101.6			60.6	
Approach LOS		F			E			F			E	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	5	6	7	8
Case No	3.0	2.0	2.0	3.0	2.0	3.0	2.0	3.0
Phs Duration (G+Y+Rc), s	50.0	10.0	28.0	32.0	23.0	37.0	25.0	35.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	46.0	6.0	24.0	28.0	19.0	33.0	21.0	31.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	48.0	8.0	26.0	30.0	20.2	29.0	23.0	30.3
Green Ext Time (g_e), s	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.6
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prob of Max Out (p_x)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt		1	3		5		7	
Mvmt Sat Flow, veh/h		3191	1645		1645		1645	

Through Movement Data								
Assigned Mvmt	2			4		6		8
Mvmt Sat Flow, veh/h	1727			3282		3282		3282

Right-Turn Movement Data								
Assigned Mvmt	12			14		16		18
Mvmt Sat Flow, veh/h	1468			1468		1468		1468

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	5	0	7	0
Lane Assignment		(Prot)	(Prot)		(Prot)		(Prot)	
Lanes in Grp	0	2	1	0	1	0	1	0

Grp Vol (v), veh/h	0	178	411	0	251	0	301	0
Grp Sat Flow (s), veh/h/ln	0	1596	1645	0	1645	0	1645	0
Q Serve Time (g_s), s	0.0	6.0	24.0	0.0	18.2	0.0	21.0	0.0
Cycle Q Clear Time (g_c), s	0.0	6.0	24.0	0.0	18.2	0.0	21.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	160	329	0	260	0	288	0
V/C Ratio (X)	0.00	1.12	1.25	0.00	0.96	0.00	1.05	0.00
Avail Cap (c_a), veh/h	0	160	329	0	260	0	288	0
Upstream Filter (I)	0.00	0.43	0.09	0.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	57.0	48.0	0.0	50.2	0.0	49.5	0.0
Incr Delay (d2), s/veh	0.0	81.8	114.6	0.0	45.6	0.0	65.5	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	138.8	162.6	0.0	95.8	0.0	115.0	0.0
1st-Term Q (Q1), veh/ln	0.0	2.6	10.9	0.0	8.3	0.0	9.5	0.0
2nd-Term Q (Q2), veh/ln	0.0	1.8	10.5	0.0	3.3	0.0	5.2	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	4.4	21.3	0.0	11.6	0.0	14.8	0.0
%ile Storage Ratio (RQ%)	0.00	0.01	0.11	0.00	0.09	0.00	0.02	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	4.6	20.5	0.0	0.0	0.0	3.3	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.3	0.3	0.0	0.0	0.0	0.3	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	0	6	0	8
Lane Assignment	T			T		T		T
Lanes in Grp	1	0	0	2	0	2	0	2
Grp Vol (v), veh/h	780	0	0	883	0	778	0	792
Grp Sat Flow (s), veh/h/ln	1727	0	0	1641	0	1641	0	1641
Q Serve Time (g_s), s	46.0	0.0	0.0	28.0	0.0	27.0	0.0	28.3
Cycle Q Clear Time (g_c), s	46.0	0.0	0.0	28.0	0.0	27.0	0.0	28.3
Lane Grp Cap (c), veh/h	662	0	0	766	0	903	0	848
V/C Ratio (X)	1.18	0.00	0.00	1.15	0.00	0.86	0.00	0.93
Avail Cap (c_a), veh/h	662	0	0	766	0	903	0	848
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	0.43	0.00	0.09
Uniform Delay (d1), s/veh	37.0	0.0	0.0	46.0	0.0	41.3	0.0	43.5
Incr Delay (d2), s/veh	95.2	0.0	0.0	83.5	0.0	5.0	0.0	2.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	132.2	0.0	0.0	129.5	0.0	46.3	0.0	45.8
1st-Term Q (Q1), veh/ln	21.9	0.0	0.0	12.7	0.0	12.2	0.0	12.8
2nd-Term Q (Q2), veh/ln	17.5	0.0	0.0	8.9	0.0	0.6	0.0	0.3

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	39.4	0.0	0.0	21.5	0.0	12.8	0.0	13.0
%ile Storage Ratio (RQ%)	0.31	0.00	0.00	0.03	0.00	0.02	0.00	0.07
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	29.5	0.0	0.0	29.3	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0

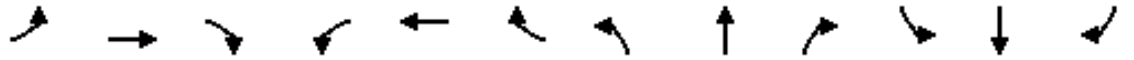
Right Lane Group Data								
Assigned Mvmt	12	0	0	14	0	16	0	18
Lane Assignment	R			R		R		R
Lanes in Grp	1	0	0	1	0	1	0	1
Grp Vol (v), veh/h	248	0	0	146	0	109	0	295
Grp Sat Flow (s), veh/h/ln	1468	0	0	1468	0	1468	0	1468
Q Serve Time (g_s), s	8.5	0.0	0.0	10.2	0.0	7.0	0.0	18.9
Cycle Q Clear Time (g_c), s	8.5	0.0	0.0	10.2	0.0	7.0	0.0	18.9
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	563	0	0	343	0	404	0	379
V/C Ratio (X)	0.44	0.00	0.00	0.43	0.00	0.27	0.00	0.78
Avail Cap (c_a), veh/h	563	0	0	343	0	404	0	379
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	0.43	0.00	0.09
Uniform Delay (d1), s/veh	8.8	0.0	0.0	39.2	0.0	34.1	0.0	29.3
Incr Delay (d2), s/veh	2.5	0.0	0.0	0.8	0.0	0.7	0.0	1.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	11.3	0.0	0.0	40.0	0.0	34.8	0.0	30.3
1st-Term Q (Q1), veh/ln	3.4	0.0	0.0	4.1	0.0	2.8	0.0	7.6
2nd-Term Q (Q2), veh/ln	0.4	0.0	0.0	0.1	0.0	0.1	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	3.8	0.0	0.0	4.2	0.0	2.9	0.0	7.7
%ile Storage Ratio (RQ%)	0.03	0.00	0.00	0.01	0.00	0.00	0.00	0.04
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	89.2
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	277	812	134	378	729	271	231	718	228	164	716	100
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	301	883	146	411	792	295	251	780	248	178	778	109
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	288	766	343	329	848	379	260	662	563	160	902	404
Arrive On Green	0.17	0.23	0.23	0.20	0.26	0.26	0.16	0.38	0.38	0.05	0.28	0.28
Sat Flow, veh/h	1645	3282	1468	1645	3282	1468	1645	1727	1468	3191	3282	1468
Grp Volume(v), veh/h	301	883	146	411	792	295	251	780	248	178	778	109
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1641	1468	1645	1727	1468	1596	1641	1468
Q Serve(g_s), s	21.0	28.0	10.2	24.0	28.3	18.9	18.2	46.0	8.5	6.0	27.0	7.0
Cycle Q Clear(g_c), s	21.0	28.0	10.2	24.0	28.3	18.9	18.2	46.0	8.5	6.0	27.0	7.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	288	766	343	329	848	379	260	662	563	160	903	404
V/C Ratio(X)	1.05	1.15	0.43	1.25	0.93	0.78	0.96	1.18	0.44	1.12	0.86	0.27
Avail Cap(c_a), veh/h	288	766	343	329	848	379	260	662	563	160	903	404
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.09	0.09	0.09	1.00	1.00	1.00	0.43	0.43	0.43
Uniform Delay (d), s/veh	49.5	46.0	39.2	48.0	43.5	29.3	50.2	37.0	8.8	57.0	41.3	34.1
Incr Delay (d2), s/veh	65.5	83.5	0.8	114.6	2.3	1.0	45.6	95.2	2.5	81.8	5.0	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	14.8	21.5	4.2	21.3	13.0	7.7	11.6	39.4	3.8	4.4	12.8	2.9
LnGrp Delay(d),s/veh	115.0	129.5	40.0	162.6	45.8	30.3	95.8	132.2	11.3	138.8	46.3	34.8
LnGrp LOS	F	F	D	F	D	C	F	F	B	F	D	C
Approach Vol, veh/h		1330			1498			1279			1065	
Approach Delay, s/veh		116.4			74.8			101.6			60.6	
Approach LOS		F			E			F			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.0	50.0	28.0	32.0	23.0	37.0	25.0	35.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	6.0	46.0	24.0	28.0	19.0	33.0	21.0	31.0
Max Q Clear Time (g_c+I1), s	8.0	48.0	26.0	30.0	20.2	29.0	23.0	30.3
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.6

Intersection Summary	
HCM 2010 Ctrl Delay	89.2
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	220	2630	234	306	1010	161	525	918	148	207	1980	172
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	239	2859	254	333	1098	175	571	998	161	225	2152	187
Adj No. of Lanes	2	2	1	2	2	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	402	1422	636	186	1200	537	293	1162	362	411	1336	416
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.13	0.43	0.43	0.06	0.37	0.37	0.09	0.25	0.25	0.13	0.28	0.28
Ln Grp Delay, s/veh	49.8	488.9	23.3	427.7	44.0	27.7	488.1	47.0	40.0	49.9	319.9	37.4
Ln Grp LOS	D	F	C	F	D	C	F	D	D	D	F	D
Approach Vol, veh/h		3352			1606			1730			2564	
Approach Delay, s/veh		422.3			121.8			191.9			275.6	
Approach LOS		F			F			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	6	5	8	7
Case No	3.0	2.0	3.0	2.0	3.0	2.0	3.0	2.0
Phs Duration (G+Y+Rc), s	33.6	19.4	56.0	11.0	38.0	15.0	47.9	19.1
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	34.0	11.0	52.0	7.0	34.0	11.0	48.0	11.0
Max Allow Headway (MAH), s	4.1	4.1	4.0	4.1	4.0	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	26.3	9.9	54.0	9.0	36.0	13.0	40.3	10.5
Green Ext Time (g_e), s	3.3	0.4	0.0	0.0	0.0	0.0	3.6	0.2
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prob of Max Out (p_x)	0.51	1.00	1.00	1.00	1.00	1.00	0.57	1.00

Left-Turn Movement Data								
Assigned Mvmt		1		3		5		7
Mvmt Sat Flow, veh/h		3191		3191		3191		3191

Through Movement Data								
Assigned Mvmt	2		4		6		8	
Mvmt Sat Flow, veh/h	4715		3282		4715		3282	

Right-Turn Movement Data								
Assigned Mvmt	12		14		16		18	
Mvmt Sat Flow, veh/h	1468		1468		1468		1468	

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	0	5	0	7
Lane Assignment		(Prot)		(Prot)		(Prot)		(Prot)
Lanes in Grp	0	2	0	2	0	2	0	2

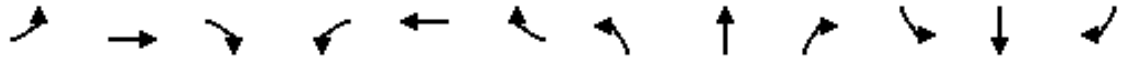
Grp Vol (v), veh/h	0	225	0	333	0	571	0	239
Grp Sat Flow (s), veh/h/ln	0	1596	0	1596	0	1596	0	1596
Q Serve Time (g_s), s	0.0	7.9	0.0	7.0	0.0	11.0	0.0	8.5
Cycle Q Clear Time (g_c), s	0.0	7.9	0.0	7.0	0.0	11.0	0.0	8.5
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	411	0	186	0	293	0	402
V/C Ratio (X)	0.00	0.55	0.00	1.79	0.00	1.95	0.00	0.59
Avail Cap (c_a), veh/h	0	411	0	186	0	293	0	402
Upstream Filter (I)	0.00	0.60	0.00	0.78	0.00	0.42	0.00	0.09
Uniform Delay (d1), s/veh	0.0	49.0	0.0	56.5	0.0	54.5	0.0	49.5
Incr Delay (d2), s/veh	0.0	0.9	0.0	371.2	0.0	433.6	0.0	0.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	49.9	0.0	427.7	0.0	488.1	0.0	49.8
1st-Term Q (Q1), veh/ln	0.0	3.5	0.0	3.1	0.0	4.8	0.0	3.8
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	9.6	0.0	17.6	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	3.6	0.0	12.7	0.0	22.5	0.0	3.8
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.03	0.00	0.06	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	36.7	0.0	69.6	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.4	0.0	0.5	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	6	0	8	0
Lane Assignment	T		T		T		T	
Lanes in Grp	3	0	2	0	3	0	2	0
Grp Vol (v), veh/h	998	0	2859	0	2152	0	1098	0
Grp Sat Flow (s), veh/h/ln	1572	0	1641	0	1572	0	1641	0
Q Serve Time (g_s), s	24.3	0.0	52.0	0.0	34.0	0.0	38.3	0.0
Cycle Q Clear Time (g_c), s	24.3	0.0	52.0	0.0	34.0	0.0	38.3	0.0
Lane Grp Cap (c), veh/h	1162	0	1422	0	1336	0	1200	0
V/C Ratio (X)	0.86	0.00	2.01	0.00	1.61	0.00	0.91	0.00
Avail Cap (c_a), veh/h	1336	0	1422	0	1336	0	1313	0
Upstream Filter (I)	0.42	0.00	0.09	0.00	0.60	0.00	0.78	0.00
Uniform Delay (d1), s/veh	43.2	0.0	34.0	0.0	43.0	0.0	36.3	0.0
Incr Delay (d2), s/veh	3.8	0.0	454.9	0.0	276.9	0.0	7.7	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	47.0	0.0	488.9	0.0	319.9	0.0	44.0	0.0
1st-Term Q (Q1), veh/ln	10.5	0.0	23.5	0.0	14.7	0.0	17.4	0.0
2nd-Term Q (Q2), veh/ln	0.4	0.0	89.8	0.0	34.3	0.0	1.3	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	10.9	0.0	113.4	0.0	49.0	0.0	18.7	0.0
%ile Storage Ratio (RQ%)	0.03	0.00	0.60	0.00	0.06	0.00	0.04	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	359.2	0.0	204.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.5	0.0	0.4	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	16	0	18	0
Lane Assignment	R		R		R		R	
Lanes in Grp	1	0	1	0	1	0	1	0
Grp Vol (v), veh/h	161	0	254	0	187	0	175	0
Grp Sat Flow (s), veh/h/ln	1468	0	1468	0	1468	0	1468	0
Q Serve Time (g_s), s	11.1	0.0	14.2	0.0	12.6	0.0	10.3	0.0
Cycle Q Clear Time (g_c), s	11.1	0.0	14.2	0.0	12.6	0.0	10.3	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	362	0	636	0	416	0	537	0
V/C Ratio (X)	0.45	0.00	0.40	0.00	0.45	0.00	0.33	0.00
Avail Cap (c_a), veh/h	416	0	636	0	416	0	587	0
Upstream Filter (I)	0.42	0.00	0.09	0.00	0.60	0.00	0.78	0.00
Uniform Delay (d1), s/veh	38.3	0.0	23.3	0.0	35.3	0.0	27.4	0.0
Incr Delay (d2), s/veh	1.7	0.0	0.0	0.0	2.1	0.0	0.3	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	40.0	0.0	23.3	0.0	37.4	0.0	27.7	0.0
1st-Term Q (Q1), veh/ln	4.5	0.0	5.8	0.0	5.1	0.0	4.2	0.0
2nd-Term Q (Q2), veh/ln	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	4.7	0.0	5.8	0.0	5.3	0.0	4.2	0.0
%ile Storage Ratio (RQ%)	0.01	0.00	0.03	0.00	0.01	0.00	0.01	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	286.4
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	220	2630	234	306	1010	161	525	918	148	207	1980	172
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	239	2859	254	333	1098	175	571	998	161	225	2152	187
Adj No. of Lanes	2	2	1	2	2	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	402	1422	636	186	1200	537	293	1162	362	411	1336	416
Arrive On Green	0.13	0.43	0.43	0.06	0.37	0.37	0.09	0.25	0.25	0.13	0.28	0.28
Sat Flow, veh/h	3191	3282	1468	3191	3282	1468	3191	4715	1468	3191	4715	1468
Grp Volume(v), veh/h	239	2859	254	333	1098	175	571	998	161	225	2152	187
Grp Sat Flow(s),veh/h/ln	1596	1641	1468	1596	1641	1468	1596	1572	1468	1596	1572	1468
Q Serve(g_s), s	8.5	52.0	14.2	7.0	38.3	10.3	11.0	24.3	11.1	7.9	34.0	12.6
Cycle Q Clear(g_c), s	8.5	52.0	14.2	7.0	38.3	10.3	11.0	24.3	11.1	7.9	34.0	12.6
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	402	1422	636	186	1200	537	293	1162	362	411	1336	416
V/C Ratio(X)	0.59	2.01	0.40	1.79	0.91	0.33	1.95	0.86	0.45	0.55	1.61	0.45
Avail Cap(c_a), veh/h	402	1422	636	186	1313	587	293	1336	416	411	1336	416
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.09	0.09	0.09	0.78	0.78	0.78	0.42	0.42	0.42	0.60	0.60	0.60
Uniform Delay (d), s/veh	49.5	34.0	23.3	56.5	36.3	27.4	54.5	43.2	38.3	49.0	43.0	35.3
Incr Delay (d2), s/veh	0.2	454.9	0.0	371.2	7.7	0.3	433.6	3.8	1.7	0.9	276.9	2.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.8	113.4	5.8	12.7	18.7	4.2	22.5	10.9	4.7	3.6	49.0	5.3
LnGrp Delay(d),s/veh	49.8	488.9	23.3	427.7	44.0	27.7	488.1	47.0	40.0	49.9	319.9	37.4
LnGrp LOS	D	F	C	F	D	C	F	D	D	D	F	D
Approach Vol, veh/h		3352			1606			1730			2564	
Approach Delay, s/veh		422.3			121.8			191.9			275.6	
Approach LOS		F			F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	19.4	33.6	11.0	56.0	15.0	38.0	19.1	47.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	11.0	34.0	7.0	52.0	11.0	34.0	11.0	48.0
Max Q Clear Time (g_c+I1), s	9.9	26.3	9.0	54.0	13.0	36.0	10.5	40.3
Green Ext Time (p_c), s	0.4	3.3	0.0	0.0	0.0	0.0	0.2	3.6

Intersection Summary	
HCM 2010 Ctrl Delay	286.4
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	678	615	557	437	1659	297	379	1662	224	721	729	737
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	737	668	605	475	1803	323	412	1807	243	784	792	801
Adj No. of Lanes	2	3	1	2	3	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	479	1297	404	479	1297	404	293	1336	416	505	1650	514
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.15	0.28	0.28	0.15	0.28	0.28	0.09	0.28	0.28	0.16	0.35	0.35
Ln Grp Delay, s/veh	304.1	37.1	263.6	90.0	224.0	30.1	257.5	206.6	42.8	308.4	31.5	299.9
Ln Grp LOS	F	D	F	F	F	C	F	F	D	F	C	F
Approach Vol, veh/h		2010			2601			2462			2377	
Approach Delay, s/veh		203.2			175.4			199.0			213.2	
Approach LOS		F			F			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	6	5	8	7
Case No	2.0	3.0	2.0	3.0	3.0	2.0	3.0	2.0
Phs Duration (G+Y+Rc), s	23.0	38.0	22.0	37.0	46.0	15.0	37.0	22.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	19.0	34.0	18.0	33.0	42.0	11.0	33.0	18.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.2	4.2	4.1	4.1	4.2
Max Q Clear (g_c+I1), s	21.0	36.0	19.8	27.8	44.0	13.0	35.0	20.0
Green Ext Time (g_e), s	0.0	0.0	0.0	3.8	0.0	0.0	0.0	0.0
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prob of Max Out (p_x)	1.00	1.00	1.00	0.93	1.00	1.00	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt	1		3			5		7
Mvmt Sat Flow, veh/h	3191		3191			3191		3191

Through Movement Data								
Assigned Mvmt		2		4	6		8	
Mvmt Sat Flow, veh/h		4715		4715	4715		4715	

Right-Turn Movement Data								
Assigned Mvmt		12		14	16		18	
Mvmt Sat Flow, veh/h		1468		1468	1468		1468	

Left Lane Group Data								
Assigned Mvmt	1	0	3	0	0	5	0	7
Lane Assignment	(Prot)		(Prot)			(Prot)		(Prot)
Lanes in Grp	2	0	2	0	0	2	0	2

Grp Vol (v), veh/h	784	0	475	0	0	412	0	737
Grp Sat Flow (s), veh/h/ln	1596	0	1596	0	0	1596	0	1596
Q Serve Time (g_s), s	19.0	0.0	17.8	0.0	0.0	11.0	0.0	18.0
Cycle Q Clear Time (g_c), s	19.0	0.0	17.8	0.0	0.0	11.0	0.0	18.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	505	0	479	0	0	293	0	479
V/C Ratio (X)	1.55	0.00	0.99	0.00	0.00	1.41	0.00	1.54
Avail Cap (c_a), veh/h	505	0	479	0	0	293	0	479
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	50.5	0.0	50.9	0.0	0.0	54.5	0.0	51.0
Incr Delay (d2), s/veh	257.9	0.0	39.0	0.0	0.0	203.0	0.0	253.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	308.4	0.0	90.0	0.0	0.0	257.5	0.0	304.1
1st-Term Q (Q1), veh/ln	8.4	0.0	7.9	0.0	0.0	4.8	0.0	7.9
2nd-Term Q (Q2), veh/ln	18.1	0.0	2.6	0.0	0.0	8.2	0.0	16.8
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	26.4	0.0	10.4	0.0	0.0	13.1	0.0	24.7
%ile Storage Ratio (RQ%)	0.23	0.00	0.21	0.00	0.00	0.07	0.00	0.34
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	69.7	0.0	0.0	0.0	0.0	29.9	0.0	64.6
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.4	0.0	0.0	0.0	0.0	0.4	0.0	0.4

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	6	0	8	0
Lane Assignment		T		T	T		T	
Lanes in Grp	0	3	0	3	3	0	3	0
Grp Vol (v), veh/h	0	1807	0	668	792	0	1803	0
Grp Sat Flow (s), veh/h/ln	0	1572	0	1572	1572	0	1572	0
Q Serve Time (g_s), s	0.0	34.0	0.0	14.4	15.7	0.0	33.0	0.0
Cycle Q Clear Time (g_c), s	0.0	34.0	0.0	14.4	15.7	0.0	33.0	0.0
Lane Grp Cap (c), veh/h	0	1336	0	1297	1650	0	1297	0
V/C Ratio (X)	0.00	1.35	0.00	0.52	0.48	0.00	1.39	0.00
Avail Cap (c_a), veh/h	0	1336	0	1297	1650	0	1297	0
Upstream Filter (I)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	43.0	0.0	36.7	30.5	0.0	43.5	0.0
Incr Delay (d2), s/veh	0.0	163.6	0.0	0.4	1.0	0.0	180.5	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	206.6	0.0	37.1	31.5	0.0	224.0	0.0
1st-Term Q (Q1), veh/ln	0.0	14.7	0.0	6.2	6.8	0.0	14.3	0.0
2nd-Term Q (Q2), veh/ln	0.0	20.2	0.0	0.0	0.2	0.0	21.7	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	35.0	0.0	6.3	7.0	0.0	36.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.20	0.00	0.09	0.06	0.00	0.73	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	117.7	0.0	0.0	0.0	0.0	126.6	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.3	0.0	0.0	0.0	0.0	0.3	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	16	0	18	0
Lane Assignment		R		R	R		R	
Lanes in Grp	0	1	0	1	1	0	1	0
Grp Vol (v), veh/h	0	243	0	605	801	0	323	0
Grp Sat Flow (s), veh/h/ln	0	1468	0	1468	1468	0	1468	0
Q Serve Time (g_s), s	0.0	17.1	0.0	25.8	42.0	0.0	16.9	0.0
Cycle Q Clear Time (g_c), s	0.0	17.1	0.0	25.8	42.0	0.0	16.9	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	416	0	404	514	0	404	0
V/C Ratio (X)	0.00	0.58	0.00	1.50	1.56	0.00	0.80	0.00
Avail Cap (c_a), veh/h	0	416	0	404	514	0	404	0
Upstream Filter (I)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	36.9	0.0	26.6	39.0	0.0	19.2	0.0
Incr Delay (d2), s/veh	0.0	5.9	0.0	237.0	260.9	0.0	10.9	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	42.8	0.0	263.6	299.9	0.0	30.1	0.0
1st-Term Q (Q1), veh/ln	0.0	6.9	0.0	10.4	17.0	0.0	6.8	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.7	0.0	26.6	37.2	0.0	1.2	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	7.6	0.0	37.0	54.2	0.0	8.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.04	0.00	0.51	0.47	0.00	0.16	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	50.3	71.8	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.4	0.4	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	197.0
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	678	615	557	437	1659	297	379	1662	224	721	729	737
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	737	668	605	475	1803	323	412	1807	243	784	792	801
Adj No. of Lanes	2	3	1	2	3	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	479	1297	404	479	1297	404	293	1336	416	505	1650	514
Arrive On Green	0.15	0.28	0.28	0.15	0.28	0.28	0.09	0.28	0.28	0.16	0.35	0.35
Sat Flow, veh/h	3191	4715	1468	3191	4715	1468	3191	4715	1468	3191	4715	1468
Grp Volume(v), veh/h	737	668	605	475	1803	323	412	1807	243	784	792	801
Grp Sat Flow(s),veh/h/ln	1596	1572	1468	1596	1572	1468	1596	1572	1468	1596	1572	1468
Q Serve(g_s), s	18.0	14.4	25.8	17.8	33.0	16.9	11.0	34.0	17.1	19.0	15.7	42.0
Cycle Q Clear(g_c), s	18.0	14.4	25.8	17.8	33.0	16.9	11.0	34.0	17.1	19.0	15.7	42.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	479	1297	404	479	1297	404	293	1336	416	505	1650	514
V/C Ratio(X)	1.54	0.52	1.50	0.99	1.39	0.80	1.41	1.35	0.58	1.55	0.48	1.56
Avail Cap(c_a), veh/h	479	1297	404	479	1297	404	293	1336	416	505	1650	514
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	51.0	36.7	26.6	50.9	43.5	19.2	54.5	43.0	36.9	50.5	30.5	39.0
Incr Delay (d2), s/veh	253.1	0.4	237.0	39.0	180.5	10.9	203.0	163.6	5.9	257.9	1.0	260.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	24.7	6.3	37.0	10.4	36.0	8.0	13.1	35.0	7.6	26.4	7.0	54.2
LnGrp Delay(d),s/veh	304.1	37.1	263.6	90.0	224.0	30.1	257.5	206.6	42.8	308.4	31.5	299.9
LnGrp LOS	F	D	F	F	F	C	F	F	D	F	C	F
Approach Vol, veh/h		2010			2601			2462			2377	
Approach Delay, s/veh		203.2			175.4			199.0			213.2	
Approach LOS		F			F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	23.0	38.0	22.0	37.0	15.0	46.0	22.0	37.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	19.0	34.0	18.0	33.0	11.0	42.0	18.0	33.0
Max Q Clear Time (g_c+I1), s	12.1	36.0	19.8	27.8	13.0	44.0	20.0	35.0
Green Ext Time (p_c), s	0.0	0.0	0.0	3.8	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	197.0
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	130	1031	727	269	1081	63	595	90	148	28	351	130
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	141	1121	790	292	1175	68	453	370	161	30	382	141
Adj No. of Lanes	1	2	1	1	3	0	1	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	192	912	408	219	1343	78	347	520	226	0	241	89
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00
Prop Arrive On Green	0.12	0.28	0.28	0.13	0.29	0.29	0.07	0.15	0.15	0.00	0.20	0.20
Ln Grp Delay, s/veh	39.8	136.8	455.0	215.9	38.3	44.2	192.6	0.0	36.5	0.0	0.0	313.7
Ln Grp LOS	D	F	F	F	D	D	F		D			F
Approach Vol, veh/h		2052			1535			984			523	
Approach Delay, s/veh		252.6			73.8			108.4			313.7	
Approach LOS		F			E			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	6	5	8	7
Case No	0.0	4.0	3.0	2.0	4.0	2.0	4.0	2.0
Phs Duration (G+Y+Rc), s	0.0	45.0	29.0	16.0	22.0	23.0	30.5	14.5
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	4.0	33.0	25.0	12.0	18.0	19.0	29.0	8.0
Max Allow Headway (MAH), s	0.0	4.1	4.2	4.1	4.1	4.1	4.0	4.1
Max Q Clear (g_c+I1), s	0.0	29.7	27.0	14.0	20.0	21.0	24.1	9.5
Green Ext Time (g_e), s	0.0	1.4	0.0	0.0	0.0	0.0	2.5	0.0
Prob of Phs Call (p_c)	0.00	1.00	1.00	1.00	1.00	1.00	1.00	0.97
Prob of Max Out (p_x)	0.00	1.00	1.00	1.00	1.00	1.00	0.86	1.00

Left-Turn Movement Data								
Assigned Mvmt	1			3		5		7
Mvmt Sat Flow, veh/h	0			1645		1645		1645

Through Movement Data								
Assigned Mvmt		2	4		6		8	
Mvmt Sat Flow, veh/h		1142	3282		1204		4561	

Right-Turn Movement Data								
Assigned Mvmt		12	14		16		18	
Mvmt Sat Flow, veh/h		497	1468		445		264	

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	0	5	0	7
Lane Assignment				(Prot)		(Prot)		(Prot)
Lanes in Grp	0	0	0	1	0	1	0	1

Grp Vol (v), veh/h	0	0	0	292	0	453	0	141
Grp Sat Flow (s), veh/h/ln	0	0	0	1645	0	1645	0	1645
Q Serve Time (g_s), s	0.0	0.0	0.0	12.0	0.0	19.0	0.0	7.5
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	12.0	0.0	19.0	0.0	7.5
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	0	0	219	0	347	0	192
V/C Ratio (X)	0.00	0.00	0.00	1.33	0.00	1.30	0.00	0.73
Avail Cap (c_a), veh/h	0	0	0	219	0	347	0	192
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.68	0.00	0.09
Uniform Delay (d1), s/veh	0.0	0.0	0.0	39.0	0.0	41.9	0.0	38.4
Incr Delay (d2), s/veh	0.0	0.0	0.0	176.9	0.0	150.8	0.0	1.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	215.9	0.0	192.6	0.0	39.8
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	5.4	0.0	8.7	0.0	3.4
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	10.8	0.0	14.5	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	16.2	0.0	23.2	0.0	3.4
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	1.32	0.00	1.99	0.00	0.63
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	18.2	0.0	26.4	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.0	0.3	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	6	0	8	0
Lane Assignment			T				T	
Lanes in Grp	0	0	2	0	0	0	2	0
Grp Vol (v), veh/h	0	0	1121	0	0	0	810	0
Grp Sat Flow (s), veh/h/ln	0	0	1641	0	0	0	1572	0
Q Serve Time (g_s), s	0.0	0.0	25.0	0.0	0.0	0.0	22.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	25.0	0.0	0.0	0.0	22.0	0.0
Lane Grp Cap (c), veh/h	0	0	912	0	0	0	926	0
V/C Ratio (X)	0.00	0.00	1.23	0.00	0.00	0.00	0.87	0.00
Avail Cap (c_a), veh/h	0	0	912	0	0	0	1013	0
Upstream Filter (I)	0.00	0.00	0.09	0.00	0.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	32.5	0.0	0.0	0.0	30.2	0.0
Incr Delay (d2), s/veh	0.0	0.0	104.3	0.0	0.0	0.0	8.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	136.8	0.0	0.0	0.0	38.3	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	11.3	0.0	0.0	0.0	9.6	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	13.2	0.0	0.0	0.0	1.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	24.5	0.0	0.0	0.0	10.6	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.05	0.00	0.00	0.00	0.53	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	52.3	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data

Assigned Mvmt	0	12	14	0	16	0	18	0
Lane Assignment		T+R	R		T+R		T+R	
Lanes in Grp	0	1	1	0	1	0	1	0
Grp Vol (v), veh/h	0	531	790	0	523	0	433	0
Grp Sat Flow (s), veh/h/ln	0	1640	1468	0	1649	0	1681	0
Q Serve Time (g_s), s	0.0	27.7	25.0	0.0	18.0	0.0	22.1	0.0
Cycle Q Clear Time (g_c), s	0.0	27.7	25.0	0.0	18.0	0.0	22.1	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.30	1.00	0.00	0.27	0.00	0.16	0.00
Lane Grp Cap (c), veh/h	0	747	408	0	330	0	495	0
V/C Ratio (X)	0.00	0.71	1.94	0.00	1.59	0.00	0.88	0.00
Avail Cap (c_a), veh/h	0	747	408	0	330	0	542	0
Upstream Filter (I)	0.00	0.68	0.09	0.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	32.6	32.5	0.0	36.0	0.0	30.2	0.0
Incr Delay (d2), s/veh	0.0	3.9	422.5	0.0	277.7	0.0	14.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	36.5	455.0	0.0	313.7	0.0	44.2	0.0
1st-Term Q (Q1), veh/ln	0.0	12.6	10.1	0.0	8.2	0.0	10.2	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.8	47.9	0.0	25.4	0.0	1.9	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	13.4	57.9	0.0	33.6	0.0	12.2	0.0
%ile Storage Ratio (RQ%)	0.00	0.84	12.32	0.00	0.59	0.00	0.60	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	95.5	0.0	48.3	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.5	0.0	0.4	0.0	0.0	0.0

Intersection Summary

HCM 2010 Ctrl Delay	177.1
HCM 2010 LOS	F

Notes

User approved volume balancing among the lanes for turning movement.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	130	1031	727	269	1081	63	595	90	148	28	351	130
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	141	1121	790	292	1175	68	453	370	161	30	382	141
Adj No. of Lanes	1	2	1	1	3	0	1	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	192	912	408	219	1343	78	347	520	226	0	241	89
Arrive On Green	0.12	0.28	0.28	0.13	0.29	0.29	0.07	0.15	0.15	0.00	0.20	0.20
Sat Flow, veh/h	1645	3282	1468	1645	4561	264	1645	1142	497	0	1204	445
Grp Volume(v), veh/h	141	1121	790	292	810	433	453	0	531	0	0	523
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1572	1681	1645	0	1640	0	0	1649
Q Serve(g_s), s	7.5	25.0	25.0	12.0	22.0	22.1	19.0	0.0	27.7	0.0	0.0	18.0
Cycle Q Clear(g_c), s	7.5	25.0	25.0	12.0	22.0	22.1	19.0	0.0	27.7	0.0	0.0	18.0
Prop In Lane	1.00		1.00	1.00		0.16	1.00		0.30	0.00		0.27
Lane Grp Cap(c), veh/h	192	912	408	219	926	495	347	0	747	0	0	330
V/C Ratio(X)	0.73	1.23	1.94	1.33	0.87	0.88	1.30	0.00	0.71	0.00	0.00	1.59
Avail Cap(c_a), veh/h	192	912	408	219	1013	542	347	0	747	0	0	330
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00
Upstream Filter(I)	0.09	0.09	0.09	1.00	1.00	1.00	0.68	0.00	0.68	0.00	0.00	1.00
Uniform Delay (d), s/veh	38.4	32.5	32.5	39.0	30.2	30.2	41.9	0.0	32.6	0.0	0.0	36.0
Incr Delay (d2), s/veh	1.4	104.3	422.5	176.9	8.1	14.0	150.8	0.0	3.9	0.0	0.0	277.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.4	24.5	57.9	16.2	10.6	12.2	23.2	0.0	13.4	0.0	0.0	33.6
LnGrp Delay(d),s/veh	39.8	136.8	455.0	215.9	38.3	44.2	192.6	0.0	36.5	0.0	0.0	313.7
LnGrp LOS	D	F	F	F	D	D	F		D			F
Approach Vol, veh/h		2052			1535			984			523	
Approach Delay, s/veh		252.6			73.8			108.4			313.7	
Approach LOS		F			E			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	0.0	45.0	16.0	29.0	23.0	22.0	14.5	30.5
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax),4s	0	33.0	12.0	25.0	19.0	18.0	8.0	29.0
Max Q Clear Time (g_c+I1),0s	0	29.7	14.0	27.0	21.0	20.0	9.5	24.1
Green Ext Time (p_c), s	0.0	1.4	0.0	0.0	0.0	0.0	0.0	2.5

Intersection Summary	
HCM 2010 Ctrl Delay	177.1
HCM 2010 LOS	F

Notes

User approved volume balancing among the lanes for turning movement.



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Volume (veh/h)	520	507	240	285	958	242
Number	3	18	2	12	1	6
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	565	551	261	310	1041	263
Adj No. of Lanes	2	1	1	1	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Opposing Right Turn Influence	Yes				Yes	
Cap, veh/h	780	359	470	400	1116	1152
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.67	1.67
Prop Arrive On Green	0.24	0.24	0.27	0.27	0.58	1.00
Ln Grp Delay, s/veh	34.6	288.5	32.7	43.9	19.2	0.0
Ln Grp LOS	C	F	C	D	B	A
Approach Vol, veh/h	1116		571			1304
Approach Delay, s/veh	159.9		38.8			15.3
Approach LOS	F		D			B

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	8			6		
Case No	2.0	7.0	9.0			4.0		
Phs Duration (G+Y+Rc), s	35.5	28.5	26.0			64.0		
Change Period (Y+Rc), s	4.0	4.0	4.0			4.0		
Max Green (Gmax), s	35.0	21.0	22.0			60.0		
Max Allow Headway (MAH), s	4.1	4.1	4.2			4.1		
Max Q Clear (g_c+I1), s	28.8	19.5	24.0			2.0		
Green Ext Time (g_e), s	2.7	0.6	0.0			3.3		
Prob of Phs Call (p_c)	1.00	1.00	1.00			1.00		
Prob of Max Out (p_x)	0.67	1.00	1.00			0.00		

Left-Turn Movement Data								
Assigned Mvmt	1	5	3					
Mvmt Sat Flow, veh/h	3191	0	3191					

Through Movement Data								
Assigned Mvmt		2	8			6		
Mvmt Sat Flow, veh/h		1727	0			1727		

Right-Turn Movement Data								
Assigned Mvmt		12	18			16		
Mvmt Sat Flow, veh/h		1468	1468			0		

Left Lane Group Data								
Assigned Mvmt	1	5	3	0	0	0	0	0
Lane Assignment	(Prot)							
Lanes in Grp	2	0	2	0	0	0	0	0

Grp Vol (v), veh/h	1041	0	565	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	1596	0	1596	0	0	0	0	0
Q Serve Time (g_s), s	26.8	0.0	14.6	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	26.8	0.0	14.6	0.0	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	1596	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	24.5	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	1116	0	780	0	0	0	0	0
V/C Ratio (X)	0.93	0.00	0.72	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	1241	0	780	0	0	0	0	0
Upstream Filter (I)	0.09	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	17.7	0.0	31.2	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	1.4	0.0	3.3	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	19.2	0.0	34.6	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	11.6	0.0	6.4	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.2	0.0	0.4	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00
%ile Back of Q (50%), veh/ln	11.8	0.0	6.8	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.97	0.00	0.87	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	8	0	0	6	0	0
Lane Assignment		T				T		
Lanes in Grp	0	1	0	0	0	1	0	0
Grp Vol (v), veh/h	0	261	0	0	0	263	0	0
Grp Sat Flow (s), veh/h/ln	0	1727	0	0	0	1727	0	0
Q Serve Time (g_s), s	0.0	11.7	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	11.7	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	470	0	0	0	1152	0	0
V/C Ratio (X)	0.00	0.55	0.00	0.00	0.00	0.23	0.00	0.00
Avail Cap (c_a), veh/h	0	470	0	0	0	1152	0	0
Upstream Filter (I)	0.00	1.00	0.00	0.00	0.00	0.09	0.00	0.00
Uniform Delay (d1), s/veh	0.0	28.1	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	32.7	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	18	0	0	16	0	0
Lane Assignment		R	R					
Lanes in Grp	0	1	1	0	0	0	0	0
Grp Vol (v), veh/h	0	310	551	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	1468	1468	0	0	0	0	0
Q Serve Time (g_s), s	0.0	17.5	22.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	17.5	22.0	0.0	0.0	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	400	359	0	0	0	0	0
V/C Ratio (X)	0.00	0.78	1.54	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	400	359	0	0	0	0	0
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	30.2	34.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	13.7	254.5	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	43.9	288.5	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	7.1	8.9	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	1.5	25.4	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	8.6	34.2	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	2.90	0.02	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	48.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	73.8
HCM 2010 LOS	E



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Volume (veh/h)	520	507	240	285	958	242
Number	3	18	2	12	1	6
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	565	551	261	310	1041	263
Adj No. of Lanes	2	1	1	1	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Cap, veh/h	780	359	470	400	1116	1152
Arrive On Green	0.24	0.24	0.27	0.27	0.58	1.00
Sat Flow, veh/h	3191	1468	1727	1468	3191	1727
Grp Volume(v), veh/h	565	551	261	310	1041	263
Grp Sat Flow(s),veh/h/ln	1596	1468	1727	1468	1596	1727
Q Serve(g_s), s	14.6	22.0	11.7	17.5	26.8	0.0
Cycle Q Clear(g_c), s	14.6	22.0	11.7	17.5	26.8	0.0
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	780	359	470	400	1116	1152
V/C Ratio(X)	0.72	1.54	0.55	0.78	0.93	0.23
Avail Cap(c_a), veh/h	780	359	470	400	1241	1152
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.67	1.67
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.09	0.09
Uniform Delay (d), s/veh	31.2	34.0	28.1	30.2	17.7	0.0
Incr Delay (d2), s/veh	3.3	254.5	4.7	13.7	1.4	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.8	34.2	6.1	8.6	11.8	0.0
LnGrp Delay(d),s/veh	34.6	288.5	32.7	43.9	19.2	0.0
LnGrp LOS	C	F	C	D	B	A
Approach Vol, veh/h	1116		571			1304
Approach Delay, s/veh	159.9		38.8			15.3
Approach LOS	F		D			B

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2				6		8
Phs Duration (G+Y+Rc), s	35.5	28.5				64.0		26.0
Change Period (Y+Rc), s	4.0	4.0				4.0		4.0
Max Green Setting (Gmax), s	31.0	21.0				60.0		22.0
Max Q Clear Time (g_c+I1), s	28.8	19.5				2.0		24.0
Green Ext Time (p_c), s	2.7	0.6				3.3		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	73.8
HCM 2010 LOS	E

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	94	144	83	33	209	57	56	326	21	55	207	101
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	102	157	90	36	227	62	61	354	23	60	225	110
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	127	183	105	160	258	70	76	395	26	495	549	269
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.08	0.18	0.18	0.10	0.20	0.20	0.05	0.25	0.25	0.30	0.50	0.50
Ln Grp Delay, s/veh	52.3	0.0	43.1	38.0	0.0	45.5	59.5	0.0	57.0	22.9	0.0	15.6
Ln Grp LOS	D		D	D		D	E		E	C		B
Approach Vol, veh/h		349			325			438			395	
Approach Delay, s/veh		45.8			44.7			57.3			16.7	
Approach LOS		D			D			E			B	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	5	6	7	8
Case No	4.0	2.0	4.0	2.0	2.0	4.0	2.0	4.0
Phs Duration (G+Y+Rc), s	26.2	31.1	20.0	12.7	8.2	49.1	11.0	21.8
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	31.0	8.0	29.0	6.0	9.0	30.0	11.0	24.0
Max Allow Headway (MAH), s	4.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	21.2	4.4	15.3	3.8	5.3	13.6	7.5	17.2
Green Ext Time (g_e), s	1.0	0.5	0.7	0.3	0.0	1.3	0.1	0.6
Prob of Phs Call (p_c)	1.00	0.78	1.00	0.59	0.78	1.00	0.92	1.00
Prob of Max Out (p_x)	0.06	1.00	0.00	1.00	1.00	0.00	1.00	0.23

Left-Turn Movement Data								
Assigned Mvmt		1		3	5		7	
Mvmt Sat Flow, veh/h		1645		1645	1645		1645	

Through Movement Data								
Assigned Mvmt	2		4			6		8
Mvmt Sat Flow, veh/h	1605		1032			1097		1307

Right-Turn Movement Data								
Assigned Mvmt	12		14			16		18
Mvmt Sat Flow, veh/h	104		591			536		357

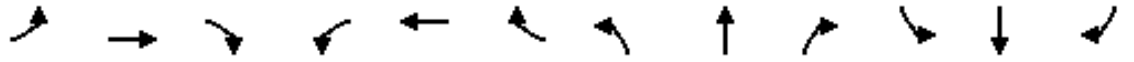
Left Lane Group Data								
Assigned Mvmt	0	1	0	3	5	0	7	0
Lane Assignment		(Prot)		(Prot)	(Prot)		(Prot)	
Lanes in Grp	0	1	0	1	1	0	1	0

Grp Vol (v), veh/h	0	60	0	36	61	0	102	0
Grp Sat Flow (s), veh/h/ln	0	1645	0	1645	1645	0	1645	0
Q Serve Time (g_s), s	0.0	2.4	0.0	1.8	3.3	0.0	5.5	0.0
Cycle Q Clear Time (g_c), s	0.0	2.4	0.0	1.8	3.3	0.0	5.5	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	495	0	160	76	0	127	0
V/C Ratio (X)	0.00	0.12	0.00	0.23	0.80	0.00	0.80	0.00
Avail Cap (c_a), veh/h	0	495	0	160	165	0	201	0
Upstream Filter (I)	0.00	1.00	0.00	0.69	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	22.8	0.0	37.5	42.5	0.0	40.8	0.0
Incr Delay (d2), s/veh	0.0	0.1	0.0	0.5	17.0	0.0	11.4	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	22.9	0.0	38.0	59.5	0.0	52.3	0.0
1st-Term Q (Q1), veh/ln	0.0	1.1	0.0	0.8	1.5	0.0	2.5	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.4	0.0	0.4	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	1.1	0.0	0.9	1.9	0.0	2.9	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	0	6	0	8
Lane Assignment								
Lanes in Grp	0	0	0	0	0	0	0	0
Grp Vol (v), veh/h	0	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	0	16	0	18
Lane Assignment	T+R		T+R			T+R		T+R
Lanes in Grp	1	0	1	0	0	1	0	1
Grp Vol (v), veh/h	377	0	247	0	0	335	0	289
Grp Sat Flow (s), veh/h/ln	1709	0	1623	0	0	1633	0	1664
Q Serve Time (g_s), s	19.2	0.0	13.3	0.0	0.0	11.6	0.0	15.2
Cycle Q Clear Time (g_c), s	19.2	0.0	13.3	0.0	0.0	11.6	0.0	15.2
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.06	0.00	0.36	0.00	0.00	0.33	0.00	0.21
Lane Grp Cap (c), veh/h	421	0	288	0	0	818	0	328
V/C Ratio (X)	0.90	0.00	0.86	0.00	0.00	0.41	0.00	0.88
Avail Cap (c_a), veh/h	589	0	523	0	0	818	0	444
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	0.69
Uniform Delay (d1), s/veh	32.8	0.0	35.9	0.0	0.0	14.1	0.0	35.1
Incr Delay (d2), s/veh	24.2	0.0	7.3	0.0	0.0	1.5	0.0	10.5
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	57.0	0.0	43.1	0.0	0.0	15.6	0.0	45.5
1st-Term Q (Q1), veh/ln	9.0	0.0	6.0	0.0	0.0	5.2	0.0	7.0
2nd-Term Q (Q2), veh/ln	2.8	0.0	0.6	0.0	0.0	0.3	0.0	1.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	11.8	0.0	6.6	0.0	0.0	5.6	0.0	7.9
%ile Storage Ratio (RQ%)	0.03	0.00	0.07	0.00	0.00	0.01	0.00	0.04
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	41.3
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	94	144	83	33	209	57	56	326	21	55	207	101
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	102	157	90	36	227	62	61	354	23	60	225	110
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	127	183	105	160	258	70	76	395	26	495	549	269
Arrive On Green	0.08	0.18	0.18	0.10	0.20	0.20	0.05	0.25	0.25	0.30	0.50	0.50
Sat Flow, veh/h	1645	1032	591	1645	1307	357	1645	1605	104	1645	1097	536
Grp Volume(v), veh/h	102	0	247	36	0	289	61	0	377	60	0	335
Grp Sat Flow(s),veh/h/ln	1645	0	1623	1645	0	1664	1645	0	1709	1645	0	1633
Q Serve(g_s), s	5.5	0.0	13.3	1.8	0.0	15.2	3.3	0.0	19.2	2.4	0.0	11.6
Cycle Q Clear(g_c), s	5.5	0.0	13.3	1.8	0.0	15.2	3.3	0.0	19.2	2.4	0.0	11.6
Prop In Lane	1.00		0.36	1.00		0.21	1.00		0.06	1.00		0.33
Lane Grp Cap(c), veh/h	127	0	288	160	0	328	76	0	421	495	0	818
V/C Ratio(X)	0.80	0.00	0.86	0.23	0.00	0.88	0.80	0.00	0.90	0.12	0.00	0.41
Avail Cap(c_a), veh/h	201	0	523	160	0	444	165	0	589	495	0	818
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	0.69	0.00	0.69	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	40.8	0.0	35.9	37.5	0.0	35.1	42.5	0.0	32.8	22.8	0.0	14.1
Incr Delay (d2), s/veh	11.4	0.0	7.3	0.5	0.0	10.5	17.0	0.0	24.2	0.1	0.0	1.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.9	0.0	6.6	0.9	0.0	7.9	1.9	0.0	11.8	1.1	0.0	5.6
LnGrp Delay(d),s/veh	52.3	0.0	43.1	38.0	0.0	45.5	59.5	0.0	57.0	22.9	0.0	15.6
LnGrp LOS	D		D	D		D	E		E	C		B
Approach Vol, veh/h		349			325			438			395	
Approach Delay, s/veh		45.8			44.7			57.3			16.7	
Approach LOS		D			D			E			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	31.1	26.2	12.7	20.0	8.2	49.1	11.0	21.8
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	30	31.0	6.0	29.0	9.0	30.0	11.0	24.0
Max Q Clear Time (g_c+I1), s	4	21.2	3.8	15.3	5.3	13.6	7.5	17.2
Green Ext Time (p_c), s	0.5	1.0	0.3	0.7	0.0	1.3	0.1	0.6

Intersection Summary	
HCM 2010 Ctrl Delay	41.3
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	83	595	14	14	403	380	3	156	25	303	121	41
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1900	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	90	647	15	15	438	413	3	170	27	329	132	45
Adj No. of Lanes	1	1	0	1	1	1	0	1	0	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	186	654	15	23	500	425	0	303	48	347	801	681
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.11	0.39	0.39	0.01	0.29	0.29	0.00	0.21	0.21	0.21	0.46	0.46
Ln Grp Delay, s/veh	39.0	0.0	55.7	71.7	41.9	39.8	0.0	0.0	32.5	41.1	14.0	5.2
Ln Grp LOS	D		E	E	D	D			C	D	B	A
Approach Vol, veh/h		752			866			197			506	
Approach Delay, s/veh		53.7			41.4			32.5			30.9	
Approach LOS		D			D			C			C	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	8	7
Case No	2.0	4.0	2.0	4.0	0.0	3.0	3.0	2.0
Phs Duration (G+Y+Rc), s	23.0	22.7	5.3	39.0	0.0	45.7	30.1	14.2
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	19.0	16.0	4.0	35.0	4.0	31.0	32.0	7.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.0	0.0	4.1	4.2	4.0
Max Q Clear (g_c+I1), s	19.7	11.4	2.8	36.4	0.0	6.0	23.7	6.6
Green Ext Time (g_e), s	0.0	0.6	0.0	0.0	0.0	1.3	2.4	0.1
Prob of Phs Call (p_c)	1.00	1.00	0.31	1.00	0.00	1.00	1.00	0.89
Prob of Max Out (p_x)	1.00	0.78	1.00	1.00	0.00	0.00	0.40	1.00

Left-Turn Movement Data								
Assigned Mvmt	1		3		5			7
Mvmt Sat Flow, veh/h	1645		1645		0			1645

Through Movement Data								
Assigned Mvmt		2		4		6	8	
Mvmt Sat Flow, veh/h		1455		1681		1727	1727	

Right-Turn Movement Data								
Assigned Mvmt		12		14		16	18	
Mvmt Sat Flow, veh/h		231		39		1468	1468	

Left Lane Group Data								
Assigned Mvmt	1	0	3	0	5	0	0	7
Lane Assignment	(Prot)		(Prot)					(Prot)
Lanes in Grp	1	0	1	0	0	0	0	1

Grp Vol (v), veh/h	329	0	15	0	0	0	0	90
Grp Sat Flow (s), veh/h/ln	1645	0	1645	0	0	0	0	1645
Q Serve Time (g_s), s	17.7	0.0	0.8	0.0	0.0	0.0	0.0	4.6
Cycle Q Clear Time (g_c), s	17.7	0.0	0.8	0.0	0.0	0.0	0.0	4.6
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	347	0	23	0	0	0	0	186
V/C Ratio (X)	0.95	0.00	0.66	0.00	0.00	0.00	0.00	0.48
Avail Cap (c_a), veh/h	347	0	73	0	0	0	0	186
Upstream Filter (I)	0.09	0.00	1.00	0.00	0.00	0.00	0.00	0.80
Uniform Delay (d1), s/veh	35.0	0.0	44.2	0.0	0.0	0.0	0.0	37.5
Incr Delay (d2), s/veh	6.1	0.0	27.5	0.0	0.0	0.0	0.0	1.6
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	41.1	0.0	71.7	0.0	0.0	0.0	0.0	39.0
1st-Term Q (Q1), veh/ln	8.0	0.0	0.4	0.0	0.0	0.0	0.0	2.1
2nd-Term Q (Q2), veh/ln	0.6	0.0	0.2	0.0	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	8.6	0.0	0.5	0.0	0.0	0.0	0.0	2.2
%ile Storage Ratio (RQ%)	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	8	0
Lane Assignment						T	T	
Lanes in Grp	0	0	0	0	0	1	1	0
Grp Vol (v), veh/h	0	0	0	0	0	132	438	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	1727	1727	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	4.0	21.7	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	4.0	21.7	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	801	500	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.16	0.88	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	801	614	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.09	1.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	14.0	30.4	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	11.5	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	14.0	41.9	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	1.9	10.3	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	1.9	11.9	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	18	0
Lane Assignment		T+R		T+R		R	R	
Lanes in Grp	0	1	0	1	0	1	1	0
Grp Vol (v), veh/h	0	197	0	662	0	45	413	0
Grp Sat Flow (s), veh/h/ln	0	1686	0	1720	0	1468	1468	0
Q Serve Time (g_s), s	0.0	9.4	0.0	34.4	0.0	1.0	14.5	0.0
Cycle Q Clear Time (g_c), s	0.0	9.4	0.0	34.4	0.0	1.0	14.5	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.14	0.00	0.02	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	351	0	669	0	681	425	0
V/C Ratio (X)	0.00	0.56	0.00	0.99	0.00	0.07	0.97	0.00
Avail Cap (c_a), veh/h	0	351	0	669	0	681	522	0
Upstream Filter (I)	0.00	0.09	0.00	0.80	0.00	0.09	1.00	0.00
Uniform Delay (d1), s/veh	0.0	31.9	0.0	27.3	0.0	5.2	10.5	0.0
Incr Delay (d2), s/veh	0.0	0.6	0.0	28.3	0.0	0.0	29.3	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	32.5	0.0	55.7	0.0	5.2	39.8	0.0
1st-Term Q (Q1), veh/ln	0.0	4.4	0.0	16.2	0.0	0.4	5.8	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	5.3	0.0	0.0	3.5	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	4.4	0.0	21.4	0.0	0.4	9.3	0.0
%ile Storage Ratio (RQ%)	0.00	0.01	0.00	0.11	0.00	0.00	0.01	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	42.3
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	83	595	14	14	403	380	3	156	25	303	121	41
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1900	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	90	647	15	15	438	413	3	170	27	329	132	45
Adj No. of Lanes	1	1	0	1	1	1	0	1	0	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	186	654	15	23	500	425	0	303	48	347	801	681
Arrive On Green	0.11	0.39	0.39	0.01	0.29	0.29	0.00	0.21	0.21	0.21	0.46	0.46
Sat Flow, veh/h	1645	1681	39	1645	1727	1468	0	1455	231	1645	1727	1468
Grp Volume(v), veh/h	90	0	662	15	438	413	0	0	197	329	132	45
Grp Sat Flow(s),veh/h/ln	1645	0	1720	1645	1727	1468	0	0	1686	1645	1727	1468
Q Serve(g_s), s	4.6	0.0	34.4	0.8	21.7	14.5	0.0	0.0	9.4	17.7	4.0	1.0
Cycle Q Clear(g_c), s	4.6	0.0	34.4	0.8	21.7	14.5	0.0	0.0	9.4	17.7	4.0	1.0
Prop In Lane	1.00		0.02	1.00		1.00	0.00		0.14	1.00		1.00
Lane Grp Cap(c), veh/h	186	0	669	23	500	425	0	0	351	347	801	681
V/C Ratio(X)	0.48	0.00	0.99	0.66	0.88	0.97	0.00	0.00	0.56	0.95	0.16	0.07
Avail Cap(c_a), veh/h	186	0	669	73	614	522	0	0	351	347	801	681
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.80	0.00	0.80	1.00	1.00	1.00	0.00	0.00	0.09	0.09	0.09	0.09
Uniform Delay (d), s/veh	37.5	0.0	27.3	44.2	30.4	10.5	0.0	0.0	31.9	35.0	14.0	5.2
Incr Delay (d2), s/veh	1.6	0.0	28.3	27.5	11.5	29.3	0.0	0.0	0.6	6.1	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.2	0.0	21.4	0.5	11.9	9.3	0.0	0.0	4.4	8.6	1.9	0.4
LnGrp Delay(d),s/veh	39.0	0.0	55.7	71.7	41.9	39.8	0.0	0.0	32.5	41.1	14.0	5.2
LnGrp LOS	D		E	E	D	D			C	D	B	A
Approach Vol, veh/h		752			866			197			506	
Approach Delay, s/veh		53.7			41.4			32.5			30.9	
Approach LOS		D			D			C			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	23.0	22.7	5.3	39.0	0.0	45.7	14.2	30.1
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	19.0	16.0	4.0	35.0	4.0	31.0	7.0	32.0
Max Q Clear Time (g_c+I1), s	19.7	11.4	2.8	36.4	0.0	6.0	6.6	23.7
Green Ext Time (p_c), s	0.0	0.6	0.0	0.0	0.0	1.3	0.1	2.4

Intersection Summary	
HCM 2010 Ctrl Delay	42.3
HCM 2010 LOS	D

Intersection	
Int Delay, s/veh	6

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	37	947	452	94	72	14
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	40	1029	491	102	78	15

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	593	0	-	0	1652	542
Stage 1	-	-	-	-	542	-
Stage 2	-	-	-	-	1110	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	945	-	-	-	104	525
Stage 1	-	-	-	-	567	-
Stage 2	-	-	-	-	304	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	945	-	-	-	100	525
Mov Cap-2 Maneuver	-	-	-	-	100	-
Stage 1	-	-	-	-	567	-
Stage 2	-	-	-	-	291	-

Approach	EB	WB	SB
HCM Control Delay, s	0.3	0	109.2
HCM LOS			F

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	945	-	-	-	115
HCM Lane V/C Ratio	0.043	-	-	-	0.813
HCM Control Delay (s)	9	-	-	-	109.2
HCM Lane LOS	A	-	-	-	F
HCM 95th %tile Q(veh)	0.1	-	-	-	4.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	106	683	16	9	275	53	18	60	8	58	53	53
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1727	1900	1727	1727	1727	1900	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	115	742	17	10	299	58	20	65	9	63	58	58
Adj No. of Lanes	0	1	0	1	1	1	0	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	0	579	13	16	689	585	0	99	14	0	77	77
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.00	0.34	0.34	0.01	0.40	0.40	0.37	0.07	0.07	0.40	0.10	0.10
Ln Grp Delay, s/veh	0.0	0.0	168.5	75.7	20.1	0.6	0.0	0.0	67.1	0.0	0.0	68.4
Ln Grp LOS			F	E	C	A			E			E
Approach Vol, veh/h		759			367			74			116	
Approach Delay, s/veh		168.5			18.5			67.1			68.4	
Approach LOS		F			B			E			E	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	6	5	7	8
Case No	4.0	0.0	2.0	4.0	4.0	0.0	0.0	3.0
Phs Duration (G+Y+Rc), s	10.0	40.1	4.9	35.0	12.7	37.4	0.0	39.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	23.0	10.0	10.0	31.0	23.0	10.0	10.0	31.0
Max Allow Headway (MAH), s	4.1	0.0	4.1	4.0	4.2	0.0	0.0	4.0
Max Q Clear (g_c+I1), s	5.8	0.0	2.5	33.0	8.4	0.0	0.0	13.3
Green Ext Time (g_e), s	0.2	0.0	0.0	0.0	0.3	0.0	0.0	4.4
Prob of Phs Call (p_c)	1.00	0.00	0.22	1.00	1.00	0.00	0.00	1.00
Prob of Max Out (p_x)	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.11

Left-Turn Movement Data								
Assigned Mvmt		1	3			5	7	
Mvmt Sat Flow, veh/h		0	1645			0	0	

Through Movement Data								
Assigned Mvmt	2			4	6			8
Mvmt Sat Flow, veh/h	1485			1682	794			1727

Right-Turn Movement Data								
Assigned Mvmt	12			14	16			18
Mvmt Sat Flow, veh/h	206			39	794			1468

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	0	5	7	0
Lane Assignment			(Prot)					
Lanes in Grp	0	0	1	0	0	0	0	0

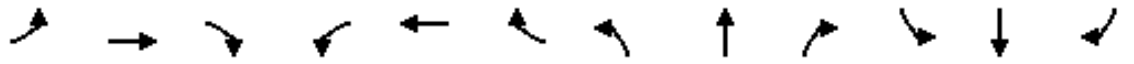
Grp Vol (v), veh/h	0	0	10	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	1645	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	0	16	0	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.62	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	183	0	0	0	0	0
Upstream Filter (I)	0.00	0.00	0.95	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	44.4	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	31.3	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	75.7	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	6	0	0	8
Lane Assignment								T
Lanes in Grp	0	0	0	0	0	0	0	1
Grp Vol (v), veh/h	0	0	0	0	0	0	0	299
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	1727
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	689
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	689
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.95
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.7
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.1
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	0	14	16	0	0	18
Lane Assignment	T+R			T+R	T+R			R
Lanes in Grp	1	0	0	1	1	0	0	1
Grp Vol (v), veh/h	74	0	0	759	116	0	0	58
Grp Sat Flow (s), veh/h/ln	1691	0	0	1720	1587	0	0	1468
Q Serve Time (g_s), s	3.8	0.0	0.0	31.0	6.4	0.0	0.0	0.4
Cycle Q Clear Time (g_c), s	3.8	0.0	0.0	31.0	6.4	0.0	0.0	0.4
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.12	0.00	0.00	0.02	0.50	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	113	0	0	593	153	0	0	585
V/C Ratio (X)	0.66	0.00	0.00	1.28	0.76	0.00	0.00	0.10
Avail Cap (c_a), veh/h	432	0	0	593	406	0	0	585
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.99	0.00	0.00	0.95
Uniform Delay (d1), s/veh	41.0	0.0	0.0	29.5	39.6	0.0	0.0	0.6
Incr Delay (d2), s/veh	26.1	0.0	0.0	139.0	28.8	0.0	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	67.1	0.0	0.0	168.5	68.4	0.0	0.0	0.6
1st-Term Q (Q1), veh/ln	1.8	0.0	0.0	14.7	2.8	0.0	0.0	0.2
2nd-Term Q (Q2), veh/ln	0.8	0.0	0.0	22.9	1.2	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	2.6	0.0	0.0	37.5	4.0	0.0	0.0	0.2
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.19	0.01	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	41.6	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	112.1
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	106	683	16	9	275	53	18	60	8	58	53	53
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1727	1900	1727	1727	1727	1900	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	115	742	17	10	299	58	20	65	9	63	58	58
Adj No. of Lanes	0	1	0	1	1	1	0	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	0	579	13	16	689	585	0	99	14	0	77	77
Arrive On Green	0.00	0.34	0.34	0.01	0.40	0.40	0.37	0.07	0.07	0.40	0.10	0.10
Sat Flow, veh/h	0	1682	39	1645	1727	1468	0	1485	206	0	794	794
Grp Volume(v), veh/h	0	0	759	10	299	58	0	0	74	0	0	116
Grp Sat Flow(s),veh/h/ln	0	0	1720	1645	1727	1468	0	0	1691	0	0	1587
Q Serve(g_s), s	0.0	0.0	31.0	0.5	11.3	0.4	0.0	0.0	3.8	0.0	0.0	6.4
Cycle Q Clear(g_c), s	0.0	0.0	31.0	0.5	11.3	0.4	0.0	0.0	3.8	0.0	0.0	6.4
Prop In Lane	0.00		0.02	1.00		1.00	0.00		0.12	0.00		0.50
Lane Grp Cap(c), veh/h	0	0	593	16	689	585	0	0	113	0	0	153
V/C Ratio(X)	0.00	0.00	1.28	0.62	0.43	0.10	0.00	0.00	0.66	0.00	0.00	0.76
Avail Cap(c_a), veh/h	0	0	593	183	689	585	0	0	432	0	0	406
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.00	1.00	0.95	0.95	0.95	0.00	0.00	1.00	0.00	0.00	0.99
Uniform Delay (d), s/veh	0.0	0.0	29.5	44.4	19.7	0.6	0.0	0.0	41.0	0.0	0.0	39.6
Incr Delay (d2), s/veh	0.0	0.0	139.0	31.3	0.4	0.1	0.0	0.0	26.1	0.0	0.0	28.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.0	37.5	0.4	5.5	0.2	0.0	0.0	2.6	0.0	0.0	4.0
LnGrp Delay(d),s/veh	0.0	0.0	168.5	75.7	20.1	0.6	0.0	0.0	67.1	0.0	0.0	68.4
LnGrp LOS			F	E	C	A			E			E
Approach Vol, veh/h		759			367			74			116	
Approach Delay, s/veh		168.5			18.5			67.1			68.4	
Approach LOS		F			B			E			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	40.1	10.0	4.9	35.0	37.4	12.7	0.0	39.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	10.0	23.0	10.0	31.0	10.0	23.0	10.0	31.0
Max Q Clear Time (g_c+I1), s	0.0	5.8	2.5	33.0	0.0	8.4	0.0	13.3
Green Ext Time (p_c), s	0.0	0.2	0.0	0.0	0.0	0.3	0.0	4.4

Intersection Summary	
HCM 2010 Ctrl Delay	112.1
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NWL	NWR	NWR2	SWL2	SWL	SWR
Lane Configurations												
Volume (veh/h)	0	486	56	37	260	13	0	0	0	0	0	0
Number	7	4	14	3	8	18	5	12	12	1	1	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	528	61	40	283	14	0	0	0	0	0	0
Adj No. of Lanes	1	1	0	1	1	0	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes	Yes	
Cap, veh/h	2	580	67	49	737	36	2	0	0	767	767	685
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.00	0.38	0.38	0.03	0.45	0.45	0.00	0.00	0.00	0.00	0.00	0.00
Ln Grp Delay, s/veh	0.0	0.0	30.0	74.1	0.0	18.1	0.0	0.0	0.0	0.0	0.0	0.0
Ln Grp LOS			C	E		B						
Approach Vol, veh/h		589			337		0			0	0	
Approach Delay, s/veh		30.0			24.8		0.0			0.0	0.0	
Approach LOS		C			C							

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1		3	4	5	6	7	8
Case No	2.0		2.0	4.0	2.0	3.0	2.0	4.0
Phs Duration (G+Y+Rc), s	49.7		6.9	41.4	0.0	49.7	0.0	48.3
Change Period (Y+Rc), s	4.0		4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	4.0		10.0	49.0	4.0	19.0	8.0	51.0
Max Allow Headway (MAH), s	0.0		4.1	4.0	0.0	0.0	0.0	4.0
Max Q Clear (g_c+I1), s	0.0		4.4	34.3	0.0	0.0	0.0	13.3
Green Ext Time (g_e), s	0.0		0.0	3.1	0.0	0.0	0.0	3.7
Prob of Phs Call (p_c)	0.00		0.66	1.00	0.00	0.00	0.00	1.00
Prob of Max Out (p_x)	0.00		0.13	0.09	0.00	0.00	0.00	0.00

Left-Turn Movement Data								
Assigned Mvmt	1		3		5		7	
Mvmt Sat Flow, veh/h	1645		1645		1645		1645	

Through Movement Data								
Assigned Mvmt				4		6		8
Mvmt Sat Flow, veh/h				1521		1727		1632

Right-Turn Movement Data								
Assigned Mvmt				14		16		18
Mvmt Sat Flow, veh/h				176		1468		81

Left Lane Group Data								
Assigned Mvmt	1	0	3	0	5	0	7	0
Lane Assignment	(Prot)		(Prot)		(Prot)		(Prot)	
Lanes in Grp	1	0	1	0	1	0	1	0

Grp Vol (v), veh/h	0	0	40	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	1645	0	1645	0	1645	0	1645	0
Q Serve Time (g_s), s	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	767	0	49	0	2	0	2	0
V/C Ratio (X)	0.00	0.00	0.82	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	767	0	168	0	67	0	134	0
Upstream Filter (I)	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	47.3	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	26.8	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	74.1	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	0	0	4	0	6	0	8
Lane Assignment						T		
Lanes in Grp	0	0	0	0	0	1	0	0
Grp Vol (v), veh/h	0	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	1727	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	806	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	806	0	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	0	0	14	0	16	0	18
Lane Assignment				T+R		R		T+R
Lanes in Grp	0	0	0	1	0	1	0	1
Grp Vol (v), veh/h	0	0	0	589	0	0	0	297
Grp Sat Flow (s), veh/h/ln	0	0	0	1696	0	1468	0	1713
Q Serve Time (g_s), s	0.0	0.0	0.0	32.3	0.0	0.0	0.0	11.3
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	32.3	0.0	0.0	0.0	11.3
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.00	0.00	0.10	0.00	1.00	0.00	0.05
Lane Grp Cap (c), veh/h	0	0	0	647	0	685	0	774
V/C Ratio (X)	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.38
Avail Cap (c_a), veh/h	0	0	0	848	0	685	0	891
Upstream Filter (I)	0.00	0.00	0.00	0.09	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	28.7	0.0	0.0	0.0	17.8
Incr Delay (d2), s/veh	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	30.0	0.0	0.0	0.0	18.1
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	15.1	0.0	0.0	0.0	5.3
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	15.3	0.0	0.0	0.0	5.3
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	28.1
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NWL	NWR	NWR2	SWL2	SWL	SWR
Lane Configurations												
Volume (veh/h)	0	486	56	37	260	13	0	0	0	0	0	0
Number	7	4	14	3	8	18	5	12	12	1	1	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	528	61	40	283	14	0	0	0	0	0	0
Adj No. of Lanes	1	1	0	1	1	0	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	2	580	67	49	737	36	2	0	0	767	767	685
Arrive On Green	0.00	0.38	0.38	0.03	0.45	0.45	0.00	0.00	0.00	0.00	0.00	0.00
Sat Flow, veh/h	1645	1521	176	1645	1632	81	1645			1645	1645	1468
Grp Volume(v), veh/h	0	0	589	40	0	297	0			0	0	0
Grp Sat Flow(s),veh/h/ln	1645	0	1696	1645	0	1713	1645			1645	1645	1468
Q Serve(g_s), s	0.0	0.0	32.3	2.4	0.0	11.3	0.0			0.0	0.0	0.0
Cycle Q Clear(g_c), s	0.0	0.0	32.3	2.4	0.0	11.3	0.0			0.0	0.0	0.0
Prop In Lane	1.00		0.10	1.00		0.05	1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	2	0	647	49	0	774	2			767	767	685
V/C Ratio(X)	0.00	0.00	0.91	0.82	0.00	0.38	0.00			0.00	0.00	0.00
Avail Cap(c_a), veh/h	134	0	848	168	0	891	67			767	767	685
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00			1.00	1.00	1.00
Upstream Filter(I)	0.00	0.00	0.09	1.00	0.00	1.00	0.00			0.00	0.00	0.00
Uniform Delay (d), s/veh	0.0	0.0	28.7	47.3	0.0	17.8	0.0			0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	1.3	26.8	0.0	0.3	0.0			0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.0	15.3	1.4	0.0	5.3	0.0			0.0	0.0	0.0
LnGrp Delay(d),s/veh	0.0	0.0	30.0	74.1	0.0	18.1	0.0			0.0	0.0	0.0
LnGrp LOS			C	E		B						
Approach Vol, veh/h		589			337		0			0	0	
Approach Delay, s/veh		30.0			24.8		0.0			0.0	0.0	
Approach LOS		C			C							

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1		3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	49.7		6.9	41.4	0.0	49.7	0.0	48.3
Change Period (Y+Rc), s	4.0		4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	45.0		10.0	49.0	4.0	19.0	8.0	51.0
Max Q Clear Time (g_c+I1), s	0.0		4.4	34.3	0.0	0.0	0.0	13.3
Green Ext Time (p_c), s	0.0		0.0	3.1	0.0	0.0	0.0	3.7

Intersection Summary	
HCM 2010 Ctrl Delay	28.1
HCM 2010 LOS	C

Intersection	
Intersection Delay, s/veh	11.2
Intersection LOS	B

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Vol, veh/h	0	10	95	0	0	37	37	12	0	0	197	201	0	12	44	10
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	11	103	0	0	40	40	13	0	0	214	218	0	13	48	11
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	9.6	9.4	12.4	8.7
HCM LOS	A	A	B	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	10%	43%	18%
Vol Thru, %	49%	90%	43%	67%
Vol Right, %	51%	0%	14%	15%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	398	105	86	66
LT Vol	0	10	37	12
Through Vol	197	95	37	44
RT Vol	201	0	12	10
Lane Flow Rate	433	114	93	72
Geometry Grp	1	1	1	1
Degree of Util (X)	0.53	0.17	0.14	0.101
Departure Headway (Hd)	4.414	5.376	5.392	5.064
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	813	662	659	702
Service Time	2.457	3.454	3.471	3.133
HCM Lane V/C Ratio	0.533	0.172	0.141	0.103
HCM Control Delay	12.4	9.6	9.4	8.7
HCM Lane LOS	B	A	A	A
HCM 95th-tile Q	3.2	0.6	0.5	0.3

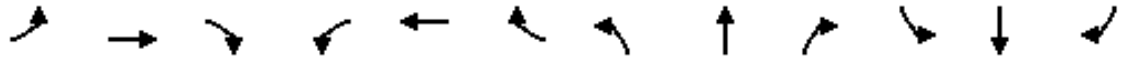
Intersection	
Int Delay, s/veh	0.9

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	18	260	90	28	14	7
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	20	283	98	30	15	8

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	128	0	-	0	435	113
Stage 1	-	-	-	-	113	-
Stage 2	-	-	-	-	322	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1410	-	-	-	564	919
Stage 1	-	-	-	-	892	-
Stage 2	-	-	-	-	717	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1410	-	-	-	554	919
Mov Cap-2 Maneuver	-	-	-	-	554	-
Stage 1	-	-	-	-	892	-
Stage 2	-	-	-	-	705	-

Approach	EB	WB	SB
HCM Control Delay, s	0.5	0	10.8
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1410	-	-	-	639
HCM Lane V/C Ratio	0.014	-	-	-	0.036
HCM Control Delay (s)	7.6	0	-	-	10.8
HCM Lane LOS	A	A	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0.1



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	21	223	17	21	240	47	57	202	14	57	42	8
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1727	1900	1900	1727	1900	1900	1727	1727	1900	1727	1900
Adj Flow Rate, veh/h	23	242	18	23	261	51	62	220	15	62	46	9
Adj No. of Lanes	0	1	0	0	1	0	0	1	1	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	193	519	37	188	467	87	263	426	440	353	195	25
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.35	0.35	0.35	0.35	0.35	0.35	0.30	0.30	0.30	0.30	0.30	0.30
Ln Grp Delay, s/veh	6.1	0.0	0.0	6.5	0.0	0.0	7.0	0.0	5.7	6.2	0.0	0.0
Ln Grp LOS	A			A			A		A	A		
Approach Vol, veh/h		283			335			297			117	
Approach Delay, s/veh		6.1			6.5			7.0			6.2	
Approach LOS		A			A			A			A	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Case No		7.0		8.0		8.0		8.0
Phs Duration (G+Y+Rc), s		10.8		11.9		10.8		11.9
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green (Gmax), s		39.0		43.0		39.0		43.0
Max Allow Headway (MAH), s		4.1		4.1		4.1		4.1
Max Q Clear (g_c+I1), s		5.1		4.9		5.3		5.7
Green Ext Time (g_e), s		1.5		2.4		1.5		2.4
Prob of Phs Call (p_c)		1.00		0.98		1.00		0.98
Prob of Max Out (p_x)		0.00		0.00		0.00		0.00

Left-Turn Movement Data								
Assigned Mvmt		5		7		1		3
Mvmt Sat Flow, veh/h		233		63		368		53

Through Movement Data								
Assigned Mvmt		2		4		6		8
Mvmt Sat Flow, veh/h		1421		1493		652		1344

Right-Turn Movement Data								
Assigned Mvmt		12		14		16		18
Mvmt Sat Flow, veh/h		1468		106		85		251

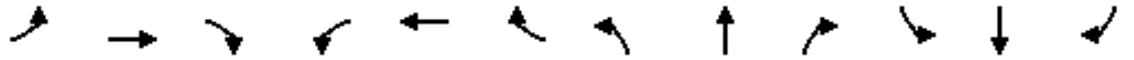
Left Lane Group Data								
Assigned Mvmt	0	5	0	7	0	1	0	3
Lane Assignment		L+T		L+T+R		L+T+R		L+T+R
Lanes in Grp	0	1	0	1	0	1	0	1

Grp Vol (v), veh/h	0	282	0	283	0	117	0	335
Grp Sat Flow (s), veh/h/ln	0	1654	0	1661	0	1105	0	1648
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	3.1	0.0	2.9	0.0	3.3	0.0	3.7
Perm LT Sat Flow (s_l), veh/h/ln	0	1370	0	1084	0	1163	0	1137
Shared LT Sat Flow (s_sh), veh/h/ln	0	1708	0	1720	0	0	0	1721
Perm LT Eff Green (g_p), s	0.0	6.8	0.0	7.9	0.0	6.8	0.0	7.9
Perm LT Serve Time (g_u), s	0.0	3.5	0.0	4.2	0.0	3.7	0.0	5.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Time to First Blk (g_f), s	0.0	2.3	0.0	4.1	0.0	1.6	0.0	4.1
Serve Time pre Blk (g_fs), s	0.0	2.3	0.0	2.9	0.0	1.2	0.0	3.7
Prop LT Inside Lane (P_L)	0.00	0.22	0.00	0.08	0.00	0.53	0.00	0.07
Lane Grp Cap (c), veh/h	0	689	0	749	0	574	0	743
V/C Ratio (X)	0.00	0.41	0.00	0.38	0.00	0.20	0.00	0.45
Avail Cap (c_a), veh/h	0	2949	0	3242	0	2391	0	3234
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	6.7	0.0	5.8	0.0	6.0	0.0	6.0
Incr Delay (d2), s/veh	0.0	0.4	0.0	0.3	0.0	0.2	0.0	0.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	7.0	0.0	6.1	0.0	6.2	0.0	6.5
1st-Term Q (Q1), veh/ln	0.0	1.4	0.0	1.3	0.0	0.5	0.0	1.7
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.5	0.0	1.4	0.0	0.5	0.0	1.8
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	0	8
Lane Assignment								
Lanes in Grp	0	0	0	0	0	0	0	0
Grp Vol (v), veh/h	0	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	0	18
Lane Assignment		R						
Lanes in Grp	0	1	0	0	0	0	0	0
Grp Vol (v), veh/h	0	15	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	1468	0	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	0.06	0.00	0.08	0.00	0.15
Lane Grp Cap (c), veh/h	0	440	0	0	0	0	0	0
V/C Ratio (X)	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	2524	0	0	0	0	0	0
Upstream Filter (I)	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	5.7	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	6.5
HCM 2010 LOS	A



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	21	223	17	21	240	47	57	202	14	57	42	8
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1727	1900	1900	1727	1900	1900	1727	1727	1900	1727	1900
Adj Flow Rate, veh/h	23	242	18	23	261	51	62	220	15	62	46	9
Adj No. of Lanes	0	1	0	0	1	0	0	1	1	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	193	519	37	188	467	87	263	426	440	353	195	25
Arrive On Green	0.35	0.35	0.35	0.35	0.35	0.35	0.30	0.30	0.30	0.30	0.30	0.30
Sat Flow, veh/h	63	1493	106	53	1344	251	233	1421	1468	368	652	85
Grp Volume(v), veh/h	283	0	0	335	0	0	282	0	15	117	0	0
Grp Sat Flow(s),veh/h/ln	1661	0	0	1648	0	0	1654	0	1468	1105	0	0
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0
Cycle Q Clear(g_c), s	2.9	0.0	0.0	3.7	0.0	0.0	3.1	0.0	0.2	3.3	0.0	0.0
Prop In Lane	0.08		0.06	0.07		0.15	0.22		1.00	0.53		0.08
Lane Grp Cap(c), veh/h	749	0	0	743	0	0	689	0	440	574	0	0
V/C Ratio(X)	0.38	0.00	0.00	0.45	0.00	0.00	0.41	0.00	0.03	0.20	0.00	0.00
Avail Cap(c_a), veh/h	3242	0	0	3234	0	0	2949	0	2524	2391	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	5.8	0.0	0.0	6.0	0.0	0.0	6.7	0.0	5.6	6.0	0.0	0.0
Incr Delay (d2), s/veh	0.3	0.0	0.0	0.4	0.0	0.0	0.4	0.0	0.0	0.2	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.4	0.0	0.0	1.8	0.0	0.0	1.5	0.0	0.1	0.5	0.0	0.0
LnGrp Delay(d),s/veh	6.1	0.0	0.0	6.5	0.0	0.0	7.0	0.0	5.7	6.2	0.0	0.0
LnGrp LOS	A			A			A		A	A		
Approach Vol, veh/h		283			335			297			117	
Approach Delay, s/veh		6.1			6.5			7.0			6.2	
Approach LOS		A			A			A			A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Phs Duration (G+Y+Rc), s		10.8		11.9		10.8		11.9
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green Setting (Gmax), s		39.0		43.0		39.0		43.0
Max Q Clear Time (g_c+I1), s		5.1		4.9		5.3		5.7
Green Ext Time (p_c), s		1.5		2.4		1.5		2.4

Intersection Summary		
HCM 2010 Ctrl Delay		6.5
HCM 2010 LOS		A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	204	1964	124	636	750	44	742	846	299	1048	2716	141
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	222	2135	135	691	815	48	807	920	325	1139	2952	153
Adj No. of Lanes	2	3	1	2	3	0	2	3	0	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	278	1257	392	346	1311	77	399	1018	359	625	1729	538
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.09	0.27	0.27	0.11	0.29	0.29	0.13	0.30	0.30	0.20	0.37	0.37
Ln Grp Delay, s/veh	62.3	361.5	36.1	504.3	37.2	37.4	513.6	42.2	43.9	418.2	356.5	27.0
Ln Grp LOS	E	F	D	F	D	D	F	D	D	F	F	C
Approach Vol, veh/h		2492			1554			2052			4244	
Approach Delay, s/veh		317.2			244.9			227.9			361.2	
Approach LOS		F			F			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	5	6	7	8
Case No	4.0	2.0	2.0	3.0	2.0	3.0	2.0	4.0
Phs Duration (G+Y+Rc), s	39.5	27.5	17.0	36.0	19.0	48.0	14.5	38.5
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	38.0	21.0	13.0	32.0	15.0	44.0	14.0	31.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.0	4.1	4.1	4.1	4.0
Max Q Clear (g_c+I1), s	32.9	25.5	15.0	34.0	17.0	46.0	10.2	20.7
Green Ext Time (g_e), s	2.6	0.0	0.0	0.0	0.0	0.0	0.3	8.8
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prob of Max Out (p_x)	0.86	1.00	1.00	1.00	1.00	1.00	1.00	0.87

Left-Turn Movement Data								
Assigned Mvmt		1	3		5		7	
Mvmt Sat Flow, veh/h		3191	3191		3191		3191	

Through Movement Data								
Assigned Mvmt	2			4		6		8
Mvmt Sat Flow, veh/h	3443			4715		4715		4556

Right-Turn Movement Data								
Assigned Mvmt	12			14		16		18
Mvmt Sat Flow, veh/h	1213			1468		1468		267

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	5	0	7	0
Lane Assignment		(Prot)	(Prot)		(Prot)		(Prot)	
Lanes in Grp	0	2	2	0	2	0	2	0

Grp Vol (v), veh/h	0	1139	691	0	807	0	222	0
Grp Sat Flow (s), veh/h/ln	0	1596	1596	0	1596	0	1596	0
Q Serve Time (g_s), s	0.0	23.5	13.0	0.0	15.0	0.0	8.2	0.0
Cycle Q Clear Time (g_c), s	0.0	23.5	13.0	0.0	15.0	0.0	8.2	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	625	346	0	399	0	278	0
V/C Ratio (X)	0.00	1.82	2.00	0.00	2.02	0.00	0.80	0.00
Avail Cap (c_a), veh/h	0	625	346	0	399	0	372	0
Upstream Filter (I)	0.00	0.09	0.13	0.00	0.09	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	48.2	53.5	0.0	52.5	0.0	53.7	0.0
Incr Delay (d2), s/veh	0.0	370.0	450.8	0.0	461.1	0.0	8.5	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	418.2	504.3	0.0	513.6	0.0	62.3	0.0
1st-Term Q (Q1), veh/ln	0.0	10.3	5.7	0.0	6.6	0.0	3.6	0.0
2nd-Term Q (Q2), veh/ln	0.0	32.1	21.6	0.0	25.5	0.0	0.3	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	42.5	27.4	0.0	32.1	0.0	3.9	0.0
%ile Storage Ratio (RQ%)	0.00	0.11	0.05	0.00	0.04	0.00	0.02	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	128.4	86.3	0.0	102.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.5	0.5	0.0	0.5	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	0	6	0	8
Lane Assignment	T			T		T		T
Lanes in Grp	2	0	0	3	0	3	0	2
Grp Vol (v), veh/h	840	0	0	2135	0	2952	0	562
Grp Sat Flow (s), veh/h/ln	1572	0	0	1572	0	1572	0	1572
Q Serve Time (g_s), s	30.8	0.0	0.0	32.0	0.0	44.0	0.0	18.6
Cycle Q Clear Time (g_c), s	30.8	0.0	0.0	32.0	0.0	44.0	0.0	18.6
Lane Grp Cap (c), veh/h	929	0	0	1257	0	1729	0	905
V/C Ratio (X)	0.90	0.00	0.00	1.70	0.00	1.71	0.00	0.62
Avail Cap (c_a), veh/h	995	0	0	1257	0	1729	0	905
Upstream Filter (I)	0.09	0.00	0.00	1.00	0.00	0.09	0.00	0.13
Uniform Delay (d1), s/veh	40.6	0.0	0.0	44.0	0.0	38.0	0.0	37.1
Incr Delay (d2), s/veh	1.6	0.0	0.0	317.5	0.0	318.5	0.0	0.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	42.2	0.0	0.0	361.5	0.0	356.5	0.0	37.2
1st-Term Q (Q1), veh/ln	13.4	0.0	0.0	13.9	0.0	19.1	0.0	8.0
2nd-Term Q (Q2), veh/ln	0.2	0.0	0.0	37.0	0.0	51.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	13.6	0.0	0.0	50.8	0.0	70.0	0.0	8.1
%ile Storage Ratio (RQ%)	0.02	0.00	0.00	0.26	0.00	0.18	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	219.4	0.0	305.7	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.4	0.0	0.4	0.0	0.0

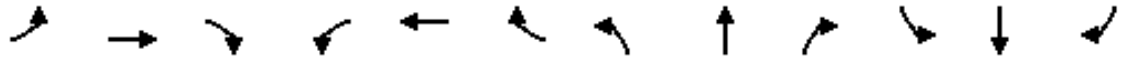
Right Lane Group Data								
Assigned Mvmt	12	0	0	14	0	16	0	18
Lane Assignment	T+R			R		R		T+R
Lanes in Grp	1	0	0	1	0	1	0	1
Grp Vol (v), veh/h	405	0	0	135	0	153	0	301
Grp Sat Flow (s), veh/h/ln	1513	0	0	1468	0	1468	0	1680
Q Serve Time (g_s), s	30.9	0.0	0.0	8.9	0.0	8.8	0.0	18.7
Cycle Q Clear Time (g_c), s	30.9	0.0	0.0	8.9	0.0	8.8	0.0	18.7
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.80	0.00	0.00	1.00	0.00	1.00	0.00	0.16
Lane Grp Cap (c), veh/h	447	0	0	392	0	538	0	483
V/C Ratio (X)	0.91	0.00	0.00	0.34	0.00	0.28	0.00	0.62
Avail Cap (c_a), veh/h	479	0	0	392	0	538	0	483
Upstream Filter (I)	0.09	0.00	0.00	1.00	0.00	0.09	0.00	0.13
Uniform Delay (d1), s/veh	40.7	0.0	0.0	35.5	0.0	26.9	0.0	37.1
Incr Delay (d2), s/veh	3.2	0.0	0.0	0.5	0.0	0.1	0.0	0.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	43.9	0.0	0.0	36.1	0.0	27.0	0.0	37.4
1st-Term Q (Q1), veh/ln	12.9	0.0	0.0	3.6	0.0	3.6	0.0	8.6
2nd-Term Q (Q2), veh/ln	0.4	0.0	0.0	0.1	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	13.3	0.0	0.0	3.7	0.0	3.6	0.0	8.7
%ile Storage Ratio (RQ%)	0.02	0.00	0.00	0.02	0.00	0.01	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	306.7
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	204	1964	124	636	750	44	742	846	299	1048	2716	141
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	222	2135	135	691	815	48	807	920	325	1139	2952	153
Adj No. of Lanes	2	3	1	2	3	0	2	3	0	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	278	1257	392	346	1311	77	399	1018	359	625	1729	538
Arrive On Green	0.09	0.27	0.27	0.11	0.29	0.29	0.13	0.30	0.30	0.20	0.37	0.37
Sat Flow, veh/h	3191	4715	1468	3191	4556	267	3191	3443	1213	3191	4715	1468
Grp Volume(v), veh/h	222	2135	135	691	562	301	807	840	405	1139	2952	153
Grp Sat Flow(s),veh/h/ln	1596	1572	1468	1596	1572	1680	1596	1572	1513	1596	1572	1468
Q Serve(g_s), s	8.2	32.0	8.9	13.0	18.6	18.7	15.0	30.8	30.9	23.5	44.0	8.8
Cycle Q Clear(g_c), s	8.2	32.0	8.9	13.0	18.6	18.7	15.0	30.8	30.9	23.5	44.0	8.8
Prop In Lane	1.00		1.00	1.00		0.16	1.00		0.80	1.00		1.00
Lane Grp Cap(c), veh/h	278	1257	392	346	905	483	399	929	447	625	1729	538
V/C Ratio(X)	0.80	1.70	0.34	2.00	0.62	0.62	2.02	0.90	0.91	1.82	1.71	0.28
Avail Cap(c_a), veh/h	372	1257	392	346	905	483	399	995	479	625	1729	538
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.13	0.13	0.13	0.09	0.09	0.09	0.09	0.09	0.09
Uniform Delay (d), s/veh	53.7	44.0	35.5	53.5	37.1	37.1	52.5	40.6	40.7	48.2	38.0	26.9
Incr Delay (d2), s/veh	8.5	317.5	0.5	450.8	0.2	0.3	461.1	1.6	3.2	370.0	318.5	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.9	50.8	3.7	27.4	8.1	8.7	32.1	13.6	13.3	42.5	70.0	3.6
LnGrp Delay(d),s/veh	62.3	361.5	36.1	504.3	37.2	37.4	513.6	42.2	43.9	418.2	356.5	27.0
LnGrp LOS	E	F	D	F	D	D	F	D	D	F	F	C
Approach Vol, veh/h		2492			1554			2052			4244	
Approach Delay, s/veh		317.2			244.9			227.9			361.2	
Approach LOS		F			F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	27.5	39.5	17.0	36.0	19.0	48.0	14.5	38.5
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	21.0	38.0	13.0	32.0	15.0	44.0	14.0	31.0
Max Q Clear Time (g_c+I1), s	25.5	32.9	15.0	34.0	17.0	46.0	10.2	20.7
Green Ext Time (p_c), s	0.0	2.6	0.0	0.0	0.0	0.0	0.3	8.8

Intersection Summary	
HCM 2010 Ctrl Delay	306.7
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	18	1776	322	564	1389	645	0	0	380	0	0	0
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	20	1930	350	613	1510	701	0	0	413	0	0	0
Adj No. of Lanes	1	2	1	2	2	1	2	2	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	27	1723	771	532	2217	992	665	465	208	106	4	1
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.02	0.52	0.52	0.17	0.68	0.68	0.00	0.00	0.14	0.00	0.00	0.00
Ln Grp Delay, s/veh	62.6	83.4	17.8	138.5	12.6	8.1	0.0	0.0	511.8	0.0	0.0	0.0
Ln Grp LOS	E	F	B	F	B	A			F			
Approach Vol, veh/h		2300			2824			413			0	
Approach Delay, s/veh		73.3			38.8			511.8			0.0	
Approach LOS		E			D			F				

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	6	5	7	8
Case No	3.0	2.0	3.0	2.0	3.0	2.0	2.0	3.0
Phs Duration (G+Y+Rc), s	21.0	8.0	67.0	24.0	0.0	29.0	5.9	85.1
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	17.0	4.0	63.0	20.0	17.0	4.0	6.0	77.0
Max Allow Headway (MAH), s	4.4	0.0	4.1	4.1	0.0	0.0	4.1	4.1
Max Q Clear (g_c+I1), s	19.0	0.0	65.0	22.0	0.0	0.0	3.5	35.2
Green Ext Time (g_e), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.8
Prob of Phs Call (p_c)	1.00	0.00	1.00	1.00	0.00	0.00	0.49	1.00
Prob of Max Out (p_x)	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.38

Left-Turn Movement Data								
Assigned Mvmt		1		3		5	7	
Mvmt Sat Flow, veh/h		3191		3191		3191	1645	

Through Movement Data								
Assigned Mvmt	2		4		6			8
Mvmt Sat Flow, veh/h	3282		3282		4715			3282

Right-Turn Movement Data								
Assigned Mvmt	12		14		16			18
Mvmt Sat Flow, veh/h	1468		1468		1468			1468

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	0	5	7	0
Lane Assignment		(Prot)		(Prot)		(Prot)	(Prot)	
Lanes in Grp	0	2	0	2	0	2	1	0

Grp Vol (v), veh/h	0	0	0	613	0	0	20	0
Grp Sat Flow (s), veh/h/ln	0	1596	0	1596	0	1596	1645	0
Q Serve Time (g_s), s	0.0	0.0	0.0	20.0	0.0	0.0	1.5	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	20.0	0.0	0.0	1.5	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	106	0	532	0	665	27	0
V/C Ratio (X)	0.00	0.00	0.00	1.15	0.00	0.00	0.75	0.00
Avail Cap (c_a), veh/h	0	106	0	532	0	665	82	0
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.00	0.09	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	50.0	0.0	0.0	58.8	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	88.5	0.0	0.0	3.8	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	138.5	0.0	0.0	62.6	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	8.8	0.0	0.0	0.7	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	6.5	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	15.3	0.0	0.0	0.7	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	2.21	0.00	0.00	0.24	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	20.3	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	6	0	0	8
Lane Assignment	T		T		T			T
Lanes in Grp	2	0	2	0	3	0	0	2
Grp Vol (v), veh/h	0	0	1930	0	0	0	0	1510
Grp Sat Flow (s), veh/h/ln	1641	0	1641	0	1572	0	0	1641
Q Serve Time (g_s), s	0.0	0.0	63.0	0.0	0.0	0.0	0.0	33.2
Cycle Q Clear Time (g_c), s	0.0	0.0	63.0	0.0	0.0	0.0	0.0	33.2
Lane Grp Cap (c), veh/h	465	0	1723	0	4	0	0	2217
V/C Ratio (X)	0.00	0.00	1.12	0.00	0.00	0.00	0.00	0.68
Avail Cap (c_a), veh/h	465	0	1723	0	668	0	0	2217
Upstream Filter (I)	0.00	0.00	0.09	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	28.5	0.0	0.0	0.0	0.0	11.7
Incr Delay (d2), s/veh	0.0	0.0	54.9	0.0	0.0	0.0	0.0	0.9
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	83.4	0.0	0.0	0.0	0.0	12.6
1st-Term Q (Q1), veh/ln	0.0	0.0	28.2	0.0	0.0	0.0	0.0	14.9
2nd-Term Q (Q2), veh/ln	0.0	0.0	13.1	0.0	0.0	0.0	0.0	0.3

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	41.4	0.0	0.0	0.0	0.0	15.2
%ile Storage Ratio (RQ%)	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.62
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	51.8	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	16	0	0	18
Lane Assignment	R		R		R			R
Lanes in Grp	1	0	1	0	1	0	0	1
Grp Vol (v), veh/h	413	0	350	0	0	0	0	701
Grp Sat Flow (s), veh/h/ln	1468	0	1468	0	1468	0	0	1468
Q Serve Time (g_s), s	17.0	0.0	17.8	0.0	0.0	0.0	0.0	24.6
Cycle Q Clear Time (g_c), s	17.0	0.0	17.8	0.0	0.0	0.0	0.0	24.6
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	208	0	771	0	1	0	0	992
V/C Ratio (X)	1.99	0.00	0.45	0.00	0.00	0.00	0.00	0.71
Avail Cap (c_a), veh/h	208	0	771	0	208	0	0	992
Upstream Filter (I)	1.00	0.00	0.09	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	51.5	0.0	17.8	0.0	0.0	0.0	0.0	5.8
Incr Delay (d2), s/veh	460.3	0.0	0.0	0.0	0.0	0.0	0.0	2.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	511.8	0.0	17.8	0.0	0.0	0.0	0.0	8.1
1st-Term Q (Q1), veh/ln	6.9	0.0	7.2	0.0	0.0	0.0	0.0	9.7
2nd-Term Q (Q2), veh/ln	26.6	0.0	0.0	0.0	0.0	0.0	0.0	0.6
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	33.5	0.0	7.2	0.0	0.0	0.0	0.0	10.4
%ile Storage Ratio (RQ%)	2.70	0.00	0.85	0.00	0.00	0.00	0.00	0.43
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	51.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	88.4
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	18	1776	322	564	1389	645	0	0	380	0	0	0
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	20	1930	350	613	1510	701	0	0	413	0	0	0
Adj No. of Lanes	1	2	1	2	2	1	2	2	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	27	1723	771	532	2217	992	665	465	208	106	4	1
Arrive On Green	0.02	0.52	0.52	0.17	0.68	0.68	0.00	0.00	0.14	0.00	0.00	0.00
Sat Flow, veh/h	1645	3282	1468	3191	3282	1468	3191	3282	1468	3191	4715	1468
Grp Volume(v), veh/h	20	1930	350	613	1510	701	0	0	413	0	0	0
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1596	1641	1468	1596	1641	1468	1596	1572	1468
Q Serve(g_s), s	1.5	63.0	17.8	20.0	33.2	24.6	0.0	0.0	17.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	1.5	63.0	17.8	20.0	33.2	24.6	0.0	0.0	17.0	0.0	0.0	0.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	27	1723	771	532	2217	992	665	465	208	106	4	1
V/C Ratio(X)	0.75	1.12	0.45	1.15	0.68	0.71	0.00	0.00	1.99	0.00	0.00	0.00
Avail Cap(c_a), veh/h	82	1723	771	532	2217	992	665	465	208	106	668	208
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.09	0.09	0.09	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00
Uniform Delay (d), s/veh	58.8	28.5	17.8	50.0	11.7	5.8	0.0	0.0	51.5	0.0	0.0	0.0
Incr Delay (d2), s/veh	3.8	54.9	0.0	88.5	0.9	2.3	0.0	0.0	460.3	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	41.4	7.2	15.3	15.2	10.4	0.0	0.0	33.5	0.0	0.0	0.0
LnGrp Delay(d),s/veh	62.6	83.4	17.8	138.5	12.6	8.1	0.0	0.0	511.8	0.0	0.0	0.0
LnGrp LOS	E	F	B	F	B	A			F			
Approach Vol, veh/h		2300			2824			413			0	
Approach Delay, s/veh		73.3			38.8			511.8			0.0	
Approach LOS		E			D			F				

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.0	21.0	24.0	67.0	29.0	0.0	5.9	85.1
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	4.0	17.0	20.0	63.0	4.0	17.0	6.0	77.0
Max Q Clear Time (g_c+I1), s	0.0	19.0	22.0	65.0	0.0	0.0	3.5	35.2
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.8

Intersection Summary	
HCM 2010 Ctrl Delay	88.4
HCM 2010 LOS	F

Intersection	
Int Delay, s/veh	92.9

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	1069	31	28	374	139	133
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	0	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	1162	34	30	407	151	145

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	1196	0	1646	1179
Stage 1	-	-	-	-	1179	-
Stage 2	-	-	-	-	467	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	556	-	~ 105	223
Stage 1	-	-	-	-	282	-
Stage 2	-	-	-	-	615	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	556	-	~ 99	223
Mov Cap-2 Maneuver	-	-	-	-	~ 99	-
Stage 1	-	-	-	-	282	-
Stage 2	-	-	-	-	582	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0.8	$ 604.9
HCM LOS			F

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	136	-	-	556	-
HCM Lane V/C Ratio	2.174	-	-	0.055	-
HCM Control Delay (s)	$ 604.9	-	-	11.8	-
HCM Lane LOS	F	-	-	B	-
HCM 95th %tile Q(veh)	24.5	-	-	0.2	-

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL2	SBL	SBR	NWL	NWR	NWR2
Lane Configurations												
Volume (veh/h)	31	441	17	122	53	62	5	168	29	136	234	95
Number	7	4	14	3	8	18	1	1	16	5	12	12
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1520	1520	1520	1520	1520	1520	1759	1759	1759	1759	1759	1759
Adj Flow Rate, veh/h	34	479	18	133	58	67	5	5	32	148	103	103
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	25	25	25	25	25	25	8	8	8	8	8	8
Opposing Right Turn Influence	Yes			Yes			Yes	Yes		Yes		
Cap, veh/h	292	1355	606	159	1091	488	9	9	191	193	355	355
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.20	0.47	0.47	0.11	0.38	0.38	0.01	0.01	0.13	0.12	0.24	0.24
Ln Grp Delay, s/veh	29.6	15.9	5.0	51.1	17.9	13.8	92.2	92.2	35.4	46.1	28.5	28.5
Ln Grp LOS	C	B	A	D	B	B	F	F	D	D	C	C
Approach Vol, veh/h		531			258		220	220		505		
Approach Delay, s/veh		16.4			34.0		45.7	45.7		35.4		
Approach LOS		B			C		D	D		D		

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	6	5	8	7
Case No	2.0	3.0	2.0	3.0	3.0	2.0	3.0	2.0
Phs Duration (G+Y+Rc), s	4.5	25.4	13.9	46.2	15.5	14.4	38.0	22.1
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	4.0	29.0	16.0	25.0	18.0	15.0	34.0	7.0
Max Allow Headway (MAH), s	4.1	4.1	4.2	4.1	4.1	4.1	4.2	4.1
Max Q Clear (g_c+I1), s	2.3	13.6	10.1	11.5	11.1	9.7	4.6	3.7
Green Ext Time (g_e), s	0.0	1.6	0.2	1.9	0.4	0.9	0.4	0.0
Prob of Phs Call (p_c)	0.12	1.00	0.96	1.00	1.00	0.98	1.00	0.57
Prob of Max Out (p_x)	1.00	0.01	0.23	0.00	0.14	0.63	0.00	1.00

Left-Turn Movement Data								
Assigned Mvmt	1		3			5		7
Mvmt Sat Flow, veh/h	1675		1448			1675		1448

Through Movement Data								
Assigned Mvmt		2		4	6		8	
Mvmt Sat Flow, veh/h		1759		2888	1759		2888	

Right-Turn Movement Data								
Assigned Mvmt		12		14	16		18	
Mvmt Sat Flow, veh/h		1495		1292	1495		1292	

Left Lane Group Data								
Assigned Mvmt	1	0	3	0	0	5	0	7
Lane Assignment	(Prot)		(Prot)			(Prot)		(Prot)
Lanes in Grp	1	0	1	0	0	1	0	1

Grp Vol (v), veh/h	5	0	133	0	0	148	0	34
Grp Sat Flow (s), veh/h/ln	1675	0	1448	0	0	1675	0	1448
Q Serve Time (g_s), s	0.3	0.0	8.1	0.0	0.0	7.7	0.0	1.7
Cycle Q Clear Time (g_c), s	0.3	0.0	8.1	0.0	0.0	7.7	0.0	1.7
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	9	0	159	0	0	193	0	292
V/C Ratio (X)	0.57	0.00	0.83	0.00	0.00	0.77	0.00	0.12
Avail Cap (c_a), veh/h	74	0	257	0	0	279	0	292
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	44.7	0.0	39.2	0.0	0.0	38.6	0.0	29.4
Incr Delay (d2), s/veh	47.5	0.0	11.9	0.0	0.0	7.5	0.0	0.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	92.2	0.0	51.1	0.0	0.0	46.1	0.0	29.6
1st-Term Q (Q1), veh/ln	0.1	0.0	3.3	0.0	0.0	3.6	0.0	0.7
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.5	0.0	0.0	0.4	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.2	0.0	3.8	0.0	0.0	4.0	0.0	0.7
%ile Storage Ratio (RQ%)	0.01	0.00	0.13	0.00	0.00	0.23	0.00	0.03
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	6	0	8	0
Lane Assignment		T		T	T		T	
Lanes in Grp	0	1	0	2	1	0	2	0
Grp Vol (v), veh/h	0	254	0	479	183	0	58	0
Grp Sat Flow (s), veh/h/ln	0	1759	0	1444	1759	0	1444	0
Q Serve Time (g_s), s	0.0	11.6	0.0	9.5	9.1	0.0	1.1	0.0
Cycle Q Clear Time (g_c), s	0.0	11.6	0.0	9.5	9.1	0.0	1.1	0.0
Lane Grp Cap (c), veh/h	0	418	0	1355	225	0	1091	0
V/C Ratio (X)	0.00	0.61	0.00	0.35	0.82	0.00	0.05	0.00
Avail Cap (c_a), veh/h	0	567	0	1355	352	0	1091	0
Upstream Filter (I)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	30.6	0.0	15.2	38.2	0.0	17.8	0.0
Incr Delay (d2), s/veh	0.0	1.4	0.0	0.7	8.0	0.0	0.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	32.0	0.0	15.9	46.2	0.0	17.9	0.0
1st-Term Q (Q1), veh/ln	0.0	5.6	0.0	3.8	4.4	0.0	0.5	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.2	0.0	0.1	0.5	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	5.8	0.0	3.9	4.9	0.0	0.5	0.0
%ile Storage Ratio (RQ%)	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	16	0	18	0
Lane Assignment		R		R	R		R	
Lanes in Grp	0	1	0	1	1	0	1	0
Grp Vol (v), veh/h	0	103	0	18	32	0	67	0
Grp Sat Flow (s), veh/h/ln	0	1495	0	1292	1495	0	1292	0
Q Serve Time (g_s), s	0.0	5.1	0.0	0.4	1.7	0.0	2.6	0.0
Cycle Q Clear Time (g_c), s	0.0	5.1	0.0	0.4	1.7	0.0	2.6	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	355	0	606	191	0	488	0
V/C Ratio (X)	0.00	0.29	0.00	0.03	0.17	0.00	0.14	0.00
Avail Cap (c_a), veh/h	0	482	0	606	299	0	488	0
Upstream Filter (I)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	28.1	0.0	4.9	35.0	0.0	13.2	0.0
Incr Delay (d2), s/veh	0.0	0.4	0.0	0.1	0.4	0.0	0.6	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	28.5	0.0	5.0	35.4	0.0	13.8	0.0
1st-Term Q (Q1), veh/ln	0.0	2.1	0.0	0.1	0.7	0.0	0.9	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	2.2	0.0	0.2	0.7	0.0	1.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.12	0.00	0.01	0.04	0.00	0.07	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	30.0
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL2	SBL	SBR	NWL	NWR	NWR2
Lane Configurations												
Volume (veh/h)	31	441	17	122	53	62	5	168	29	136	234	95
Number	7	4	14	3	8	18	1	1	16	5	12	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1520	1520	1520	1520	1520	1520	1759	1759	1759	1759	1759	1759
Adj Flow Rate, veh/h	34	479	18	133	58	67	5	5	32	148	103	103
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	25	25	25	25	25	25	8	8	8	8	8	8
Cap, veh/h	292	1355	606	159	1091	488	9	9	191	193	355	355
Arrive On Green	0.20	0.47	0.47	0.11	0.38	0.38	0.01	0.01	0.13	0.12	0.24	0.24
Sat Flow, veh/h	1448	2888	1292	1448	2888	1292	1675	1675	1495	1675	1495	1495
Grp Volume(v), veh/h	34	479	18	133	58	67	5	5	32	148	103	103
Grp Sat Flow(s),veh/h/ln	1448	1444	1292	1448	1444	1292	1675	1675	1495	1675	1495	1495
Q Serve(g_s), s	1.7	9.5	0.4	8.1	1.1	2.6	0.3	0.3	1.7	7.7	5.1	5.1
Cycle Q Clear(g_c), s	1.7	9.5	0.4	8.1	1.1	2.6	0.3	0.3	1.7	7.7	5.1	5.1
Prop In Lane	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lane Grp Cap(c), veh/h	292	1355	606	159	1091	488	9	9	191	193	355	355
V/C Ratio(X)	0.12	0.35	0.03	0.83	0.05	0.14	0.57	0.57	0.17	0.77	0.29	0.29
Avail Cap(c_a), veh/h	292	1355	606	257	1091	488	74	74	299	279	482	482
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	29.4	15.2	4.9	39.2	17.8	13.2	44.7	44.7	35.0	38.6	28.1	28.1
Incr Delay (d2), s/veh	0.2	0.7	0.1	11.9	0.1	0.6	47.5	47.5	0.4	7.5	0.4	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	3.9	0.2	3.8	0.5	1.0	0.2	0.2	0.7	4.0	2.2	2.2
LnGrp Delay(d),s/veh	29.6	15.9	5.0	51.1	17.9	13.8	92.2	92.2	35.4	46.1	28.5	28.5
LnGrp LOS	C	B	A	D	B	B	F	F	D	D	C	C
Approach Vol, veh/h		531			258		220	220		505		
Approach Delay, s/veh		16.4			34.0		45.7	45.7		35.4		
Approach LOS		B			C		D	D		D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	4.5	25.4	13.9	46.2	14.4	15.5	22.1	38.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax),4s	0	29.0	16.0	25.0	15.0	18.0	7.0	34.0
Max Q Clear Time (g_c+I1),2s	3	13.6	10.1	11.5	9.7	11.1	3.7	4.6
Green Ext Time (p_c), s	0.0	1.6	0.2	1.9	0.9	0.4	0.0	0.4

Intersection Summary	
HCM 2010 Ctrl Delay	30.0
HCM 2010 LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NWL	NWR
Lane Configurations										
Volume (veh/h)	0	370	472	5	475	0	47	178	0	0
Number	7	4	14	3	8	18	1	16		
Initial Q, veh	0	0	0	0	0	0	0	0		
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00		
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Adj Sat Flow, veh/h/ln	0	1520	1900	1900	1520	0	1450	1900		
Adj Flow Rate, veh/h	0	402	513	5	516	0	51	193		
Adj No. of Lanes	0	1	0	0	1	0	0	0		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92		
Percent Heavy Veh, %	0	25	25	25	25	0	0	0		
Opposing Right Turn Influence	No			Yes			Yes			
Cap, veh/h	0	446	569	0	1115	0	47	177		
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Prop Arrive On Green	0.00	0.73	0.73	0.00	0.73	0.00	0.18	0.18		
Ln Grp Delay, s/veh	0.0	0.0	22.1	0.0	6.2	0.0	123.9	0.0		
Ln Grp LOS			C		A		F			

Approach Vol, veh/h	915	516	245	Timer:
Approach Delay, s/veh	22.1	6.2	123.9	Assigned Phs
Approach LOS	C	A	F	Case No
Phs Duration (G+Y+Rc), s	20.0	70.0		70.0
Change Period (Y+Rc), s	4.0	4.0		4.0
Max Green (Gmax), s	16.0	58.0		66.0
Max Allow Headway (MAH), s	4.4	4.2		4.2
Max Q Clear (g_c+I1), s	18.0	48.9		14.3
Green Ext Time (g_e), s	0.0	4.7		8.6
Prob of Phs Call (p_c)	1.00	1.00		1.00
Prob of Max Out (p_x)	1.00	0.00		0.00

Left-Turn Movement Data				
Assigned Mvmt	1	3	7	
Mvmt Sat Flow, veh/h	263	0	0	

Through Movement Data				
Assigned Mvmt	6		4	8
Mvmt Sat Flow, veh/h	5		608	1520

Right-Turn Movement Data				
Assigned Mvmt	16		14	18
Mvmt Sat Flow, veh/h	994		775	0

Left Lane Group Data									
Assigned Mvmt	1	0	3	7	0	0	0	0	
Lane Assignment	L+T+R								
Lanes in Grp	1	0	0	0	0	0	0	0	
Grp Vol (v), veh/h	245	0	0	0	0	0	0	0	
Grp Sat Flow (s), veh/h/ln	1262	0	0	0	0	0	0	0	
Q Serve Time (g_s), s	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Cycle Q Clear Time (g_c), s	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	66.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	224	0	0	0	0	0	0	0
V/C Ratio (X)	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	224	0	0	0	0	0	0	0
Upstream Filter (I)	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	37.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	86.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	123.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00
%ile Back of Q (50%), veh/ln	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	6	0	0	4	0	0	0	8
Lane Assignment								T
Lanes in Grp	0	0	0	0	0	0	0	1
Grp Vol (v), veh/h	0	0	0	0	0	0	0	516
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	1520
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.3
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.3
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	1115
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	1115
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4

%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Right Lane Group Data								
Assigned Mvmt	16	0	0	14	0	0	0	18
Lane Assignment				T+R				
Lanes in Grp	0	0	0	1	0	0	0	0
Grp Vol (v), veh/h	0	0	0	915	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1383	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	46.9	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	46.9	0.0	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.79	0.00	0.00	0.56	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	0	0	1014	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	1014	0	0	0	0
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	9.5	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	12.7	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	22.1	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	17.3	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	32.1
HCM 2010 LOS	C

Notes

User approved volume balancing among the lanes for turning movement.



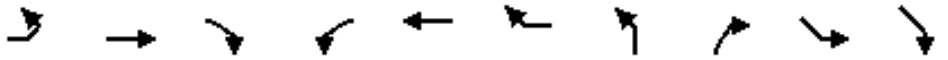
Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NWL	NWR
Lane Configurations										
Volume (veh/h)	0	370	472	5	475	0	47	178	0	0
Number	7	4	14	3	8	18	1	16		
Initial Q (Qb), veh	0	0	0	0	0	0	0	0		
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00		
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Adj Sat Flow, veh/h/ln	0	1520	1900	1900	1520	0	1450	1900		
Adj Flow Rate, veh/h	0	402	513	5	516	0	51	193		
Adj No. of Lanes	0	1	0	0	1	0	0	0		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92		
Percent Heavy Veh, %	0	25	25	25	25	0	0	0		
Cap, veh/h	0	446	569	0	1115	0	47	177		
Arrive On Green	0.00	0.73	0.73	0.00	0.73	0.00	0.18	0.18		
Sat Flow, veh/h	0	608	775	0	1520	0	263	994		
Grp Volume(v), veh/h	0	0	915	0	516	0	245	0		
Grp Sat Flow(s),veh/h/ln	0	0	1383	0	1520	0	1262	0		
Q Serve(g_s), s	0.0	0.0	46.9	0.0	12.3	0.0	16.0	0.0		
Cycle Q Clear(g_c), s	0.0	0.0	46.9	0.0	12.3	0.0	16.0	0.0		
Prop In Lane	0.00		0.56	0.00		0.00	0.21	0.79		
Lane Grp Cap(c), veh/h	0	0	1014	0	1115	0	224	0		
V/C Ratio(X)	0.00	0.00	0.90	0.00	0.46	0.00	1.09	0.00		
Avail Cap(c_a), veh/h	0	0	1014	0	1115	0	224	0		
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Upstream Filter(I)	0.00	0.00	1.00	0.00	0.99	0.00	1.00	0.00		
Uniform Delay (d), s/veh	0.0	0.0	9.5	0.0	4.8	0.0	37.0	0.0		
Incr Delay (d2), s/veh	0.0	0.0	12.7	0.0	1.4	0.0	86.9	0.0		
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
%ile BackOfQ(50%),veh/ln	0.0	0.0	20.9	0.0	5.4	0.0	11.0	0.0		
LnGrp Delay(d),s/veh	0.0	0.0	22.1	0.0	6.2	0.0	123.9	0.0		
LnGrp LOS			C		A		F			
Approach Vol, veh/h		915			516		245			
Approach Delay, s/veh		22.1			6.2		123.9			
Approach LOS		C			A		F			

Timer	1	2	3	4	5	6	7	8
Assigned Phs			3	4		6		8
Phs Duration (G+Y+Rc), s			0.0	70.0		20.0		70.0
Change Period (Y+Rc), s			4.0	4.0		4.0		4.0
Max Green Setting (Gmax), s			4.0	58.0		16.0		66.0
Max Q Clear Time (g_c+I1), s			0.0	48.9		18.0		14.3
Green Ext Time (p_c), s			0.0	4.7		0.0		8.6

Intersection Summary	
HCM 2010 Ctrl Delay	32.1
HCM 2010 LOS	C

Notes

User approved volume balancing among the lanes for turning movement.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBR	SEL	SER
Lane Configurations										
Volume (veh/h)	85	193	0	0	124	54	187	29	0	0
Number	7	4	14	3	8	18	5	12		
Initial Q, veh	0	0	0	0	0	0	0	0		
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00		
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Adj Sat Flow, veh/h/ln	1520	1520	0	0	1520	1520	1900	1900		
Adj Flow Rate, veh/h	92	210	0	0	135	59	0	32		
Adj No. of Lanes	1	1	0	0	1	1	0	0		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92		
Percent Heavy Veh, %	25	25	0	0	25	25	0	0		
Opposing Right Turn Influence	Yes			No			Yes			
Cap, veh/h	592	1094	0	0	405	345	0	37		
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Prop Arrive On Green	0.41	0.72	0.00	0.00	0.27	0.27	0.00	0.19		
Ln Grp Delay, s/veh	16.9	4.3	0.0	0.0	28.8	26.4	0.0	43.6		
Ln Grp LOS	B	A			C	C		D		

Approach Vol, veh/h	302		194		235		Timer:
Approach Delay, s/veh	8.1		28.1		43.6		Assigned Phs
Approach LOS	A		C		D		Case No
Phs Duration (G+Y+Rc), s		21.2	68.8		28.0	40.8	
Change Period (Y+Rc), s		4.0	4.0		4.0	4.0	
Max Green (Gmax), s		34.0	48.0		24.0	20.0	
Max Allow Headway (MAH), s		4.1	4.1		4.2	4.1	
Max Q Clear (g_c+I1), s		16.5	6.0		8.4	5.6	
Green Ext Time (g_e), s		0.7	1.1		0.5	0.9	
Prob of Phs Call (p_c)		1.00	1.00		1.00	0.90	
Prob of Max Out (p_x)		0.00	0.00		0.00	0.00	

Left-Turn Movement Data						
Assigned Mvmt		5			3	7
Mvmt Sat Flow, veh/h		0			0	1448

Through Movement Data						
Assigned Mvmt		2	4		8	
Mvmt Sat Flow, veh/h		1223	1520		1520	

Right-Turn Movement Data						
Assigned Mvmt		12	14		18	
Mvmt Sat Flow, veh/h		193	0		1292	

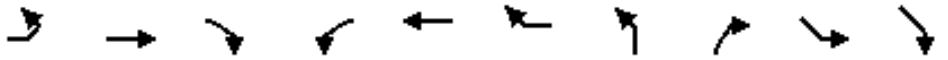
Left Lane Group Data										
Assigned Mvmt	0	5	0	0	0	0	3	7		
Lane Assignment								(Prot)		
Lanes in Grp	0	0	0	0	0	0	0	1		
Grp Vol (v), veh/h	0	0	0	0	0	0	0	92		
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	1448		
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6		

Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	24.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	592
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	592
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.8
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.9
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	0	8	0
Lane Assignment				T			T	
Lanes in Grp	0	0	0	1	0	0	1	0
Grp Vol (v), veh/h	0	0	0	210	0	0	135	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1520	0	0	1520	0
Q Serve Time (g_s), s	0.0	0.0	0.0	4.0	0.0	0.0	6.4	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	4.0	0.0	0.0	6.4	0.0
Lane Grp Cap (c), veh/h	0	0	0	1094	0	0	405	0
V/C Ratio (X)	0.00	0.00	0.00	0.19	0.00	0.00	0.33	0.00
Avail Cap (c_a), veh/h	0	0	0	1094	0	0	405	0
Upstream Filter (I)	0.00	0.00	0.00	0.50	0.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	4.1	0.0	0.0	26.6	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.2	0.0	0.0	2.2	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	4.3	0.0	0.0	28.8	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	1.7	0.0	0.0	2.7	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.1	0.0	0.0	0.2	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	1.8	0.0	0.0	2.9	0.0

%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	0	18	0
Lane Assignment		T+R					R	
Lanes in Grp	0	1	0	0	0	0	1	0
Grp Vol (v), veh/h	0	235	0	0	0	0	59	0
Grp Sat Flow (s), veh/h/ln	0	1416	0	0	0	0	1292	0
Q Serve Time (g_s), s	0.0	14.5	0.0	0.0	0.0	0.0	3.2	0.0
Cycle Q Clear Time (g_c), s	0.0	14.5	0.0	0.0	0.0	0.0	3.2	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.14	0.00	0.00	0.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	271	0	0	0	0	345	0
V/C Ratio (X)	0.00	0.87	0.00	0.00	0.00	0.00	0.17	0.00
Avail Cap (c_a), veh/h	0	535	0	0	0	0	345	0
Upstream Filter (I)	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	35.3	0.0	0.0	0.0	0.0	25.4	0.0
Incr Delay (d2), s/veh	0.0	8.3	0.0	0.0	0.0	0.0	1.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	43.6	0.0	0.0	0.0	0.0	26.4	0.0
1st-Term Q (Q1), veh/ln	0.0	5.7	0.0	0.0	0.0	0.0	1.1	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.6	0.0	0.0	0.0	0.0	0.1	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	6.3	0.0	0.0	0.0	0.0	1.2	0.0
%ile Storage Ratio (RQ%)	0.00	0.18	0.00	0.00	0.00	0.00	0.07	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	24.8
HCM 2010 LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBR	SEL	SER
Lane Configurations										
Volume (veh/h)	85	193	0	0	124	54	187	29	0	0
Number	7	4	14	3	8	18	5	12		
Initial Q (Qb), veh	0	0	0	0	0	0	0	0		
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00		
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Adj Sat Flow, veh/h/ln	1520	1520	0	0	1520	1520	1900	1900		
Adj Flow Rate, veh/h	92	210	0	0	135	59	0	32		
Adj No. of Lanes	1	1	0	0	1	1	0	0		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92		
Percent Heavy Veh, %	25	25	0	0	25	25	0	0		
Cap, veh/h	592	1094	0	0	405	345	0	37		
Arrive On Green	0.41	0.72	0.00	0.00	0.27	0.27	0.00	0.19		
Sat Flow, veh/h	1448	1520	0	0	1520	1292	0	193		
Grp Volume(v), veh/h	92	210	0	0	135	59	0	235		
Grp Sat Flow(s),veh/h/ln	1448	1520	0	0	1520	1292	0	1416		
Q Serve(g_s), s	3.6	4.0	0.0	0.0	6.4	3.2	0.0	14.5		
Cycle Q Clear(g_c), s	3.6	4.0	0.0	0.0	6.4	3.2	0.0	14.5		
Prop In Lane	1.00		0.00	0.00		1.00	0.00	0.14		
Lane Grp Cap(c), veh/h	592	1094	0	0	405	345	0	271		
V/C Ratio(X)	0.16	0.19	0.00	0.00	0.33	0.17	0.00	0.87		
Avail Cap(c_a), veh/h	592	1094	0	0	405	345	0	535		
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Upstream Filter(I)	0.50	0.50	0.00	0.00	1.00	1.00	0.00	1.00		
Uniform Delay (d), s/veh	16.8	4.1	0.0	0.0	26.6	25.4	0.0	35.3		
Incr Delay (d2), s/veh	0.1	0.2	0.0	0.0	2.2	1.1	0.0	8.3		
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
%ile BackOfQ(50%),veh/ln	1.4	1.8	0.0	0.0	2.9	1.2	0.0	6.3		
LnGrp Delay(d),s/veh	16.9	4.3	0.0	0.0	28.8	26.4	0.0	43.6		
LnGrp LOS	B	A			C	C		D		
Approach Vol, veh/h		302			194		235			
Approach Delay, s/veh		8.1			28.1		43.6			
Approach LOS		A			C		D			

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4			7	8
Phs Duration (G+Y+Rc), s		21.2		68.8			40.8	28.0
Change Period (Y+Rc), s		4.0		4.0			4.0	4.0
Max Green Setting (Gmax), s		34.0		48.0			20.0	24.0
Max Q Clear Time (g_c+I1), s		16.5		6.0			5.6	8.4
Green Ext Time (p_c), s		0.7		1.1			0.9	0.5

Intersection Summary		
HCM 2010 Ctrl Delay		24.8
HCM 2010 LOS		C

Intersection	
Int Delay, s/veh	1.3

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	316	20	10	159	9	51
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	24	24	24	24	10	10
Mvmt Flow	343	22	11	173	10	55

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	365	0	549	354
Stage 1	-	-	-	-	354	-
Stage 2	-	-	-	-	195	-
Critical Hdwy	-	-	4.34	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.416	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	1082	-	483	672
Stage 1	-	-	-	-	693	-
Stage 2	-	-	-	-	819	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1082	-	478	672
Mov Cap-2 Maneuver	-	-	-	-	478	-
Stage 1	-	-	-	-	693	-
Stage 2	-	-	-	-	810	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0.5	11.3
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	633	-	-	1082	-
HCM Lane V/C Ratio	0.103	-	-	0.01	-
HCM Control Delay (s)	11.3	-	-	8.4	0
HCM Lane LOS	B	-	-	A	A
HCM 95th %tile Q(veh)	0.3	-	-	0	-

Intersection	
Int Delay, s/veh	1.8

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	14	27	51	459	85	62
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	8	8	8	8
Mvmt Flow	15	29	55	499	92	67

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	557	305	0	0	554	0
Stage 1	305	-	-	-	-	-
Stage 2	252	-	-	-	-	-
Critical Hdwy	6.5	6.3	-	-	4.18	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	-	-	2.272	-
Pot Cap-1 Maneuver	478	716	-	-	987	-
Stage 1	730	-	-	-	-	-
Stage 2	772	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	432	716	-	-	987	-
Mov Cap-2 Maneuver	432	-	-	-	-	-
Stage 1	730	-	-	-	-	-
Stage 2	697	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	11.7	0	5.2
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	585	987	-
HCM Lane V/C Ratio	-	-	0.076	0.094	-
HCM Control Delay (s)	-	-	11.7	9	0
HCM Lane LOS	-	-	B	A	A
HCM 95th %tile Q(veh)	-	-	0.2	0.3	-

Intersection	
Intersection Delay, s/veh	40.2
Intersection LOS	E

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	39	613	0	0	2	36	24	0	0	43	222
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	8	8	8	10	8	8	8	10	10	10	10
Mvmt Flow	0	42	666	0	0	2	39	26	0	0	47	241
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	1	1	1
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	1	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	1	1
HCM Control Delay	57.3	9.8	13.6
HCM LOS	F	A	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	6%	3%	38%
Vol Thru, %	16%	94%	58%	62%
Vol Right, %	84%	0%	39%	0%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	265	652	62	77
LT Vol	0	39	2	29
Through Vol	43	613	36	48
RT Vol	222	0	24	0
Lane Flow Rate	288	709	67	84
Geometry Grp	1	1	1	1
Degree of Util (X)	0.456	1	0.113	0.158
Departure Headway (Hd)	5.809	5.327	6.038	6.788
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	625	687	596	531
Service Time	3.809	3.336	4.046	4.794
HCM Lane V/C Ratio	0.461	1.032	0.112	0.158
HCM Control Delay	13.6	57.3	9.8	11.1
HCM Lane LOS	B	F	A	B
HCM 95th-tile Q	2.4	15.9	0.4	0.6

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	29	48	0
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10
Mvmt Flow	0	32	52	0
Number of Lanes	0	0	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	1
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	11.1
HCM LOS	B

Lane

Intersection	
Int Delay, s/veh	1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NWL	NWR
Vol, veh/h	0	491	284	50	51	0	48	2	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	None	-	-
Storage Length	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	0	-	0	-
Grade, %	-	0	-	-	0	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	24	24	10	10
Mvmt Flow	0	534	309	54	55	0	52	2	0	0

Major/Minor	Major1			Major2			Minor2		
Conflicting Flow All	55	0	0	842	0	0	852	55	
Stage 1	-	-	-	-	-	-	164	-	
Stage 2	-	-	-	-	-	-	688	-	
Critical Hdwy	4.2	-	-	4.2	-	-	6.64	6.44	
Critical Hdwy Stg 1	-	-	-	-	-	-	5.64	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	5.64	-	
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.716	3.516	
Pot Cap-1 Maneuver	1500	-	-	760	-	-	303	953	
Stage 1	-	-	-	-	-	-	814	-	
Stage 2	-	-	-	-	-	-	461	-	
Platoon blocked, %		-	-		-	-			
Mov Cap-1 Maneuver	1500	-	-	760	-	-	281	953	
Mov Cap-2 Maneuver	-	-	-	-	-	-	281	-	
Stage 1	-	-	-	-	-	-	755	-	
Stage 2	-	-	-	-	-	-	461	-	

Approach	EB	WB	SB
HCM Control Delay, s	0	5	9
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	1500	-	-	760	-	-	953
HCM Lane V/C Ratio	-	-	-	0.072	-	-	0.057
HCM Control Delay (s)	0	-	-	10.1	0	-	9
HCM Lane LOS	A	-	-	B	A	-	A
HCM 95th %tile Q(veh)	0	-	-	0.2	-	-	0.2

Intersection	
Int Delay, s/veh	0.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SEL	SET	SER	NWL	NWT	NWR
Vol, veh/h	3	407	0	0	25	23	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	24	24	24	24	24	24
Mvmt Flow	3	442	0	0	27	25	0	0	0	0	0	0

Major/Minor	Major1			Major2			Minor1		
Conflicting Flow All	52	0	0	442	0	0	489	501	442
Stage 1	-	-	-	-	-	-	449	449	-
Stage 2	-	-	-	-	-	-	40	52	-
Critical Hdwy	4.2	-	-	4.2	-	-	6.64	6.74	6.44
Critical Hdwy Stg 1	-	-	-	-	-	-	5.64	5.74	-
Critical Hdwy Stg 2	-	-	-	-	-	-	5.64	5.74	-
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.716	4.216	3.516
Pot Cap-1 Maneuver	1504	-	-	1077	-	-	501	442	572
Stage 1	-	-	-	-	-	-	599	537	-
Stage 2	-	-	-	-	-	-	929	810	-
Platoon blocked, %		-	-		-	-			
Mov Cap-1 Maneuver	1504	-	-	1077	-	-	499	0	572
Mov Cap-2 Maneuver	-	-	-	-	-	-	499	0	-
Stage 1	-	-	-	-	-	-	597	0	-
Stage 2	-	-	-	-	-	-	929	0	-

Approach	EB	WB	NW
HCM Control Delay, s	0.1	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NWLn1	EBL	EBT	EBR	WBL	WBT	WBR
Capacity (veh/h)	-	1504	-	-	1077	-	-
HCM Lane V/C Ratio	-	0.002	-	-	-	-	-
HCM Control Delay (s)	0	7.4	0	-	0	-	-
HCM Lane LOS	A	A	A	-	A	-	-
HCM 95th %tile Q(veh)	-	0	-	-	0	-	-

Intersection	
Int Delay, s/veh	2.2

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	0	0	56	80	59	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	0	61	87	64	1

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	274	65	65	0	-	0
Stage 1	65	-	-	-	-	-
Stage 2	209	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	699	977	1488	-	-	-
Stage 1	938	-	-	-	-	-
Stage 2	807	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	669	977	1488	-	-	-
Mov Cap-2 Maneuver	669	-	-	-	-	-
Stage 1	938	-	-	-	-	-
Stage 2	772	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	0	3.1	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1488	-	-	-	-
HCM Lane V/C Ratio	0.041	-	-	-	-
HCM Control Delay (s)	7.5	0	0	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0.1	-	-	-	-

Intersection	
Int Delay, s/veh	0

Movement	NBL	NBT	SBT	SBR	SEL	SER
Vol, veh/h	0	104	57	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	113	62	0	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	62	0	-	0	175	62
Stage 1	-	-	-	-	62	-
Stage 2	-	-	-	-	113	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1491	-	-	-	797	981
Stage 1	-	-	-	-	941	-
Stage 2	-	-	-	-	892	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1491	-	-	-	797	981
Mov Cap-2 Maneuver	-	-	-	-	797	-
Stage 1	-	-	-	-	941	-
Stage 2	-	-	-	-	892	-

Approach	NB	SB	SE
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBL	NBT	SELn1	SBT	SBR
Capacity (veh/h)	1491	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	0	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	-	-	-

Intersection	
Int Delay, s/veh	1.5

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	48	27	457	74	4	412
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	8	8	8	8
Mvmt Flow	52	29	497	80	4	448

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	994	537	0	0	577	0
Stage 1	537	-	-	-	-	-
Stage 2	457	-	-	-	-	-
Critical Hdwy	6.5	6.3	-	-	4.18	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	-	-	2.272	-
Pot Cap-1 Maneuver	263	529	-	-	967	-
Stage 1	570	-	-	-	-	-
Stage 2	621	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	261	529	-	-	967	-
Mov Cap-2 Maneuver	261	-	-	-	-	-
Stage 1	570	-	-	-	-	-
Stage 2	617	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	20.1	0	0.1
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	319	967	-
HCM Lane V/C Ratio	-	-	0.256	0.004	-
HCM Control Delay (s)	-	-	20.1	8.7	0
HCM Lane LOS	-	-	C	A	A
HCM 95th %tile Q(veh)	-	-	1	0	-

Intersection	
Int Delay, s/veh	3.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NWL	NWR
Vol, veh/h	4	225	15	17	80	22	143	11	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	None	-	-
Storage Length	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	0	-	0	-
Grade, %	-	0	-	-	0	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	24	24	24	24
Mvmt Flow	4	245	16	18	87	24	155	12	0	0

Major/Minor	Major1			Major2			Minor2			
Conflicting Flow All	111	0	0	261	0	0	397	99		
Stage 1	-	-	-	-	-	-	136	-		
Stage 2	-	-	-	-	-	-	261	-		
Critical Hdwy	4.2	-	-	4.2	-	-	6.64	6.44		
Critical Hdwy Stg 1	-	-	-	-	-	-	5.64	-		
Critical Hdwy Stg 2	-	-	-	-	-	-	5.64	-		
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.716	3.516		
Pot Cap-1 Maneuver	1430	-	-	1258	-	-	568	900		
Stage 1	-	-	-	-	-	-	839	-		
Stage 2	-	-	-	-	-	-	734	-		
Platoon blocked, %		-	-		-	-				
Mov Cap-1 Maneuver	1430	-	-	1258	-	-	558	900		
Mov Cap-2 Maneuver	-	-	-	-	-	-	558	-		
Stage 1	-	-	-	-	-	-	826	-		
Stage 2	-	-	-	-	-	-	732	-		

Approach	EB	WB	SB
HCM Control Delay, s	0.1	1.1	9.9
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	1430	-	-	1258	-	-	900
HCM Lane V/C Ratio	0.003	-	-	0.015	-	-	0.186
HCM Control Delay (s)	7.5	0	-	7.9	0	-	9.9
HCM Lane LOS	A	A	-	A	A	-	A
HCM 95th %tile Q(veh)	0	-	-	0	-	-	0.7

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NWL	NWR
Vol, veh/h	497	0	0	123	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	24	24
Mvmt Flow	540	0	0	134	0	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	540	0	674	540
Stage 1	-	-	-	-	540	-
Stage 2	-	-	-	-	134	-
Critical Hdwy	-	-	4.2	-	6.64	6.44
Critical Hdwy Stg 1	-	-	-	-	5.64	-
Critical Hdwy Stg 2	-	-	-	-	5.64	-
Follow-up Hdwy	-	-	2.29	-	3.716	3.516
Pot Cap-1 Maneuver	-	-	989	-	388	501
Stage 1	-	-	-	-	542	-
Stage 2	-	-	-	-	841	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	989	-	388	501
Mov Cap-2 Maneuver	-	-	-	-	388	-
Stage 1	-	-	-	-	542	-
Stage 2	-	-	-	-	841	-

Approach	EB	WB	NW
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NWLn1	NWLn2	EBT	EBR	WBL	WBT
Capacity (veh/h)	-	-	-	-	989	-
HCM Lane V/C Ratio	-	-	-	-	-	-
HCM Control Delay (s)	0	0	-	-	0	-
HCM Lane LOS	A	A	-	-	A	-
HCM 95th %tile Q(veh)	-	-	-	-	0	-

Intersection	
Int Delay, s/veh	0.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NEL	NER
Vol, veh/h	1	359	0	4	215	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	0	-	0	-
Grade, %	-	0	-	-	0	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	25	25	25	25	25	25	10	10	10	10
Mvmt Flow	1	390	0	4	234	0	0	0	0	0

Major/Minor	Major1			Major2			Minor2		Minor1	
Conflicting Flow All	234	0	0	390	0	0	634	234	634	390
Stage 1	-	-	-	-	-	-	242	-	392	-
Stage 2	-	-	-	-	-	-	392	-	242	-
Critical Hdwy	4.35	-	-	4.35	-	-	7.2	6.3	7.2	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	6.2	-	6.2	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.2	-	6.2	-
Follow-up Hdwy	2.425	-	-	2.425	-	-	3.59	3.39	3.59	3.39
Pot Cap-1 Maneuver	1209	-	-	1054	-	-	381	786	381	641
Stage 1	-	-	-	-	-	-	744	-	617	-
Stage 2	-	-	-	-	-	-	617	-	744	-
Platoon blocked, %		-	-		-	-				
Mov Cap-1 Maneuver	1209	-	-	1054	-	-	380	786	380	641
Mov Cap-2 Maneuver	-	-	-	-	-	-	380	-	380	-
Stage 1	-	-	-	-	-	-	743	-	616	-
Stage 2	-	-	-	-	-	-	616	-	741	-

Approach	EB	WB	SB	NE
HCM Control Delay, s	0	0.2	0	0
HCM LOS			A	A

Minor Lane/Major Mvmt	NELn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	-	1209	-	-	1054	-	-	-
HCM Lane V/C Ratio	-	0.001	-	-	0.004	-	-	-
HCM Control Delay (s)	0	8	0	-	8.4	0	-	0
HCM Lane LOS	A	A	A	-	A	A	-	A
HCM 95th %tile Q(veh)	-	0	-	-	0	-	-	-

Intersection	
Intersection Delay, s/veh	7.6
Intersection LOS	A

Movement	NBU	NBT	NBR	SBU	SBL	SBT	SWU	SWL	SWR
Vol, veh/h	0	88	0	0	3	76	0	0	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	8	8	10	8	8	10	10	10
Mvmt Flow	0	96	0	0	3	83	0	0	0
Number of Lanes	0	1	0	0	0	1	0	0	1

Approach	NB	SB	SW
Opposing Approach	SB	NB	
Opposing Lanes	1	1	0
Conflicting Approach Left		SW	NB
Conflicting Lanes Left	0	1	1
Conflicting Approach Right	SW		SB
Conflicting Lanes Right	1	0	1
HCM Control Delay	7.6	7.6	0
HCM LOS	A	A	-

Lane	NBLn1	SBLn1	SWLn1
Vol Left, %	0%	4%	0%
Vol Thru, %	100%	96%	100%
Vol Right, %	0%	0%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	88	79	0
LT Vol	0	3	0
Through Vol	88	76	0
RT Vol	0	0	0
Lane Flow Rate	96	86	0
Geometry Grp	1	1	1
Degree of Util (X)	0.109	0.098	0
Departure Headway (Hd)	4.099	4.114	4.38
Convergence, Y/N	Yes	Yes	Yes
Cap	875	872	0
Service Time	2.118	2.134	2.468
HCM Lane V/C Ratio	0.11	0.099	0
HCM Control Delay	7.6	7.6	7.5
HCM Lane LOS	A	A	N
HCM 95th-tile Q	0.4	0.3	0

Intersection	
Int Delay, s/veh	0

Movement	NBT	NBR	SBL	SBT	SWL	SWR
Vol, veh/h	68	29	0	85	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	8	8	8	8	10	10
Mvmt Flow	74	32	0	92	0	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	105	0	182	90
Stage 1	-	-	-	-	90	-
Stage 2	-	-	-	-	92	-
Critical Hdwy	-	-	4.18	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.272	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	1450	-	789	946
Stage 1	-	-	-	-	914	-
Stage 2	-	-	-	-	912	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1450	-	789	946
Mov Cap-2 Maneuver	-	-	-	-	789	-
Stage 1	-	-	-	-	914	-
Stage 2	-	-	-	-	912	-

Approach	NB	SB	SW
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBT	NBR	SBL	SBT	SWLn1
Capacity (veh/h)	-	-	1450	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	-	-	0	-	0
HCM Lane LOS	-	-	A	-	A
HCM 95th %tile Q(veh)	-	-	0	-	-

Intersection	
Int Delay, s/veh	1.3

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	316	20	10	159	9	51
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	343	22	11	173	10	55

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	365	0	549	354
Stage 1	-	-	-	-	354	-
Stage 2	-	-	-	-	195	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	1151	-	483	672
Stage 1	-	-	-	-	693	-
Stage 2	-	-	-	-	819	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1151	-	478	672
Mov Cap-2 Maneuver	-	-	-	-	478	-
Stage 1	-	-	-	-	693	-
Stage 2	-	-	-	-	810	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0.5	11.1
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	NBLn2	EBT	EBR	WBL	WBT
Capacity (veh/h)	478	672	-	-	1151	-
HCM Lane V/C Ratio	0.02	0.082	-	-	0.009	-
HCM Control Delay (s)	12.7	10.8	-	-	8.2	0
HCM Lane LOS	B	B	-	-	A	A
HCM 95th %tile Q(veh)	0.1	0.3	-	-	0	-

Intersection	
Int Delay, s/veh	4.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	26	49	9	13	13	9	5	50	29	9	78	9
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	28	53	10	14	14	10	5	54	32	10	85	10

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	202	206	90	222	195	70	95	0	0	86	0	0
Stage 1	109	109	-	81	81	-	-	-	-	-	-	-
Stage 2	93	97	-	141	114	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.2	6.6	6.3	4.2	-	-	4.2	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.59	4.09	3.39	2.29	-	-	2.29	-	-
Pot Cap-1 Maneuver	739	677	946	717	686	971	1450	-	-	1461	-	-
Stage 1	877	790	-	908	812	-	-	-	-	-	-	-
Stage 2	895	799	-	843	786	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	714	670	946	661	678	971	1450	-	-	1461	-	-
Mov Cap-2 Maneuver	714	670	-	661	678	-	-	-	-	-	-	-
Stage 1	873	784	-	904	809	-	-	-	-	-	-	-
Stage 2	867	796	-	772	780	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	10.9	10.2	0.4	0.7
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1450	-	-	706	727	1461	-	-
HCM Lane V/C Ratio	0.004	-	-	0.129	0.052	0.007	-	-
HCM Control Delay (s)	7.5	0	-	10.9	10.2	7.5	0	-
HCM Lane LOS	A	A	-	B	B	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.4	0.2	0	-	-

Intersection	
Int Delay, s/veh	0.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	2	2	6	4	8	5	3	295	4	0	229	13
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	362	-	-	401	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	22	22	22	22	22	22	25	25	25	25	25	25
Mvmt Flow	2	2	7	4	9	5	3	321	4	0	249	14

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	592	588	256	589	592	323	263	0	0	325	0	0
Stage 1	256	256	-	329	329	-	-	-	-	-	-	-
Stage 2	336	332	-	260	263	-	-	-	-	-	-	-
Critical Hdwy	7.32	6.72	6.42	7.32	6.72	6.42	4.35	-	-	4.35	-	-
Critical Hdwy Stg 1	6.32	5.72	-	6.32	5.72	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.32	5.72	-	6.32	5.72	-	-	-	-	-	-	-
Follow-up Hdwy	3.698	4.198	3.498	3.698	4.198	3.498	2.425	-	-	2.425	-	-
Pot Cap-1 Maneuver	390	395	736	392	393	674	1179	-	-	1116	-	-
Stage 1	706	660	-	644	612	-	-	-	-	-	-	-
Stage 2	638	610	-	703	656	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	380	394	736	386	392	674	1179	-	-	1116	-	-
Mov Cap-2 Maneuver	380	394	-	386	392	-	-	-	-	-	-	-
Stage 1	704	660	-	642	610	-	-	-	-	-	-	-
Stage 2	622	608	-	694	656	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	11.8	13.4	0.1	0
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1179	-	-	541	445	1116	-	-
HCM Lane V/C Ratio	0.003	-	-	0.02	0.042	-	-	-
HCM Control Delay (s)	8.1	-	-	11.8	13.4	0	-	-
HCM Lane LOS	A	-	-	B	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0.1	0	-	-

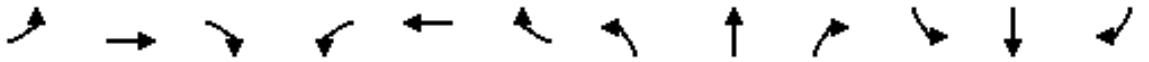
Intersection	
Int Delay, s/veh	0.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	2	466	24	5	210	6	3	15	8	8	5	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	12	12	12	12	12	12	10	10	10	10	10	10
Mvmt Flow	2	507	26	5	228	7	3	16	9	9	5	0

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	235	0	0	533	0	0	769	770	520	778	779	232
Stage 1	-	-	-	-	-	-	524	524	-	242	242	-
Stage 2	-	-	-	-	-	-	245	246	-	536	537	-
Critical Hdwy	4.22	-	-	4.22	-	-	7.2	6.6	6.3	7.2	6.6	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Follow-up Hdwy	2.308	-	-	2.308	-	-	3.59	4.09	3.39	3.59	4.09	3.39
Pot Cap-1 Maneuver	1276	-	-	986	-	-	308	322	541	304	318	788
Stage 1	-	-	-	-	-	-	522	517	-	744	691	-
Stage 2	-	-	-	-	-	-	741	688	-	514	510	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1276	-	-	986	-	-	302	319	541	286	315	788
Mov Cap-2 Maneuver	-	-	-	-	-	-	302	319	-	286	315	-
Stage 1	-	-	-	-	-	-	521	516	-	743	687	-
Stage 2	-	-	-	-	-	-	731	684	-	489	509	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0	0.2	15.8	17.8
HCM LOS			C	C

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	362	1276	-	-	986	-	-	296
HCM Lane V/C Ratio	0.078	0.002	-	-	0.006	-	-	0.048
HCM Control Delay (s)	15.8	7.8	0	-	8.7	0	-	17.8
HCM Lane LOS	C	A	A	-	A	A	-	C
HCM 95th %tile Q(veh)	0.3	0	-	-	0	-	-	0.1



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	10	265	142	54	202	4	173	29	59	9	26	13
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1696	1696	1696	1696	1696	1900	1727	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	11	288	154	59	220	4	188	32	64	10	28	14
Adj No. of Lanes	1	1	1	1	1	0	1	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	12	12	12	12	12	12	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	462	490	417	516	535	10	231	133	267	55	56	23
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.29	0.29	0.29	0.32	0.32	0.32	0.14	0.26	0.26	0.07	0.07	0.07
Ln Grp Delay, s/veh	23.1	32.5	28.0	21.8	0.0	26.1	44.3	0.0	26.7	41.8	0.0	0.0
Ln Grp LOS	C	C	C	C		C	D		C	D		
Approach Vol, veh/h		453			283			284			52	
Approach Delay, s/veh		30.7			25.2			38.4			41.8	
Approach LOS		C			C			D			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2	4	3	6	5	8	7
Case No		4.0	3.0	2.0	8.4	2.0	4.0	2.0
Phs Duration (G+Y+Rc), s		27.3	30.0	32.7	10.6	16.6	33.0	29.7
Change Period (Y+Rc), s		4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s		43.0	26.0	9.0	18.0	21.0	29.0	6.0
Max Allow Headway (MAH), s		4.2	4.1	4.1	4.1	4.2	4.0	4.1
Max Q Clear (g_c+I1), s		6.4	15.1	4.3	6.6	12.0	11.3	2.4
Green Ext Time (g_e), s		1.0	1.2	0.1	0.1	0.7	0.7	0.0
Prob of Phs Call (p_c)		1.00	1.00	0.77	1.00	1.00	1.00	0.24
Prob of Max Out (p_x)		0.00	0.00	0.54	0.00	0.06	0.00	1.00

Left-Turn Movement Data								
Assigned Mvmt				3	1	5		7
Mvmt Sat Flow, veh/h				1616	98	1645		1616

Through Movement Data								
Assigned Mvmt		2	4		6		8	
Mvmt Sat Flow, veh/h		515	1696		753		1661	

Right-Turn Movement Data								
Assigned Mvmt		12	14		16		18	
Mvmt Sat Flow, veh/h		1030	1442		314		30	

Left Lane Group Data								
Assigned Mvmt	0	0	0	3	1	5	0	7
Lane Assignment				(Prot)	L+T+R	(Prot)		(Prot)
Lanes in Grp	0	0	0	1	1	1	0	1

Grp Vol (v), veh/h	0	0	0	59	52	188	0	11
Grp Sat Flow (s), veh/h/ln	0	0	0	1616	1165	1645	0	1616
Q Serve Time (g_s), s	0.0	0.0	0.0	2.3	0.1	10.0	0.0	0.4
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	2.3	4.6	10.0	0.0	0.4
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	1320	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	6.6	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.00	0.00	1.00	0.19	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	0	0	516	134	231	0	462
V/C Ratio (X)	0.00	0.00	0.00	0.11	0.39	0.81	0.00	0.02
Avail Cap (c_a), veh/h	0	0	0	516	326	384	0	462
Upstream Filter (I)	0.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	21.7	39.9	37.5	0.0	23.1
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.1	1.8	6.8	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	21.8	41.8	44.3	0.0	23.1
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	1.0	1.3	4.5	0.0	0.2
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.1	0.4	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	1.0	1.3	5.0	0.0	0.2
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.29	0.02	0.82	0.00	0.07
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	6	0	8	0
Lane Assignment			T					
Lanes in Grp	0	0	1	0	0	0	0	0
Grp Vol (v), veh/h	0	0	288	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	1696	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	13.1	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	13.1	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	490	0	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.59	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	490	0	0	0	0	0
Upstream Filter (I)	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	27.4	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	5.1	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	32.5	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	6.1	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	6.8	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	14	0	16	0	18	0
Lane Assignment		T+R	R				T+R	
Lanes in Grp	0	1	1	0	0	0	1	0
Grp Vol (v), veh/h	0	96	154	0	0	0	224	0
Grp Sat Flow (s), veh/h/ln	0	1545	1442	0	0	0	1691	0
Q Serve Time (g_s), s	0.0	4.4	7.7	0.0	0.0	0.0	9.3	0.0
Cycle Q Clear Time (g_c), s	0.0	4.4	7.7	0.0	0.0	0.0	9.3	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.67	1.00	0.00	0.27	0.00	0.02	0.00
Lane Grp Cap (c), veh/h	0	400	417	0	0	0	545	0
V/C Ratio (X)	0.00	0.24	0.37	0.00	0.00	0.00	0.41	0.00
Avail Cap (c_a), veh/h	0	738	417	0	0	0	545	0
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	26.4	25.5	0.0	0.0	0.0	23.8	0.0
Incr Delay (d2), s/veh	0.0	0.3	2.5	0.0	0.0	0.0	2.3	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	26.7	28.0	0.0	0.0	0.0	26.1	0.0
1st-Term Q (Q1), veh/ln	0.0	1.9	3.0	0.0	0.0	0.0	4.4	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.3	0.0	0.0	0.0	0.3	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	1.9	3.3	0.0	0.0	0.0	4.7	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	1.15	0.00	0.00	0.00	0.07	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	31.8
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	10	265	142	54	202	4	173	29	59	9	26	13
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1696	1696	1696	1696	1696	1900	1727	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	11	288	154	59	220	4	188	32	64	10	28	14
Adj No. of Lanes	1	1	1	1	1	0	1	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	12	12	12	12	12	12	10	10	10	10	10	10
Cap, veh/h	462	490	417	516	535	10	231	133	267	55	56	23
Arrive On Green	0.29	0.29	0.29	0.32	0.32	0.32	0.14	0.26	0.26	0.07	0.07	0.07
Sat Flow, veh/h	1616	1696	1442	1616	1661	30	1645	515	1030	98	753	314
Grp Volume(v), veh/h	11	288	154	59	0	224	188	0	96	52	0	0
Grp Sat Flow(s),veh/h/ln	1616	1696	1442	1616	0	1691	1645	0	1545	1165	0	0
Q Serve(g_s), s	0.4	13.1	7.7	2.3	0.0	9.3	10.0	0.0	4.4	0.1	0.0	0.0
Cycle Q Clear(g_c), s	0.4	13.1	7.7	2.3	0.0	9.3	10.0	0.0	4.4	4.6	0.0	0.0
Prop In Lane	1.00		1.00	1.00		0.02	1.00		0.67	0.19		0.27
Lane Grp Cap(c), veh/h	462	490	417	516	0	545	231	0	400	134	0	0
V/C Ratio(X)	0.02	0.59	0.37	0.11	0.00	0.41	0.81	0.00	0.24	0.39	0.00	0.00
Avail Cap(c_a), veh/h	462	490	417	516	0	545	384	0	738	326	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	23.1	27.4	25.5	21.7	0.0	23.8	37.5	0.0	26.4	39.9	0.0	0.0
Incr Delay (d2), s/veh	0.0	5.1	2.5	0.1	0.0	2.3	6.8	0.0	0.3	1.8	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	6.8	3.3	1.0	0.0	4.7	5.0	0.0	1.9	1.3	0.0	0.0
LnGrp Delay(d),s/veh	23.1	32.5	28.0	21.8	0.0	26.1	44.3	0.0	26.7	41.8	0.0	0.0
LnGrp LOS	C	C	C	C		C	D		C	D		
Approach Vol, veh/h		453			283			284			52	
Approach Delay, s/veh		30.7			25.2			38.4			41.8	
Approach LOS		C			C			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s		27.3	32.7	30.0	16.6	10.6	29.7	33.0
Change Period (Y+Rc), s		4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s		43.0	9.0	26.0	21.0	18.0	6.0	29.0
Max Q Clear Time (g_c+I1), s		6.4	4.3	15.1	12.0	6.6	2.4	11.3
Green Ext Time (p_c), s		1.0	0.1	1.2	0.7	0.1	0.0	0.7

Intersection Summary	
HCM 2010 Ctrl Delay	31.8
HCM 2010 LOS	C

Intersection	
Int Delay, s/veh	10.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	62	247	27	34	249	9	16	47	12	7	118	102
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	136	-	-	135	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	30	30	30	30	30	30	14	14	14	14	14	14
Mvmt Flow	67	268	29	37	271	10	17	51	13	8	128	111

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	280	0	0	298	0	0	887	772	283	799	782	276
Stage 1	-	-	-	-	-	-	418	418	-	349	349	-
Stage 2	-	-	-	-	-	-	469	354	-	450	433	-
Critical Hdwy	4.4	-	-	4.4	-	-	7.24	6.64	6.34	7.24	6.64	6.34
Critical Hdwy Stg 1	-	-	-	-	-	-	6.24	5.64	-	6.24	5.64	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.24	5.64	-	6.24	5.64	-
Follow-up Hdwy	2.47	-	-	2.47	-	-	3.626	4.126	3.426	3.626	4.126	3.426
Pot Cap-1 Maneuver	1138	-	-	1120	-	-	252	317	728	290	312	735
Stage 1	-	-	-	-	-	-	589	570	-	643	613	-
Stage 2	-	-	-	-	-	-	553	610	-	566	562	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1138	-	-	1120	-	-	130	288	728	230	284	735
Mov Cap-2 Maneuver	-	-	-	-	-	-	130	288	-	230	284	-
Stage 1	-	-	-	-	-	-	554	536	-	605	593	-
Stage 2	-	-	-	-	-	-	356	590	-	473	529	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	1.5	1	26.5	29.1
HCM LOS			D	D

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	248	1138	-	-	1120	-	-	388
HCM Lane V/C Ratio	0.329	0.059	-	-	0.033	-	-	0.636
HCM Control Delay (s)	26.5	8.4	-	-	8.3	-	-	29.1
HCM Lane LOS	D	A	-	-	A	-	-	D
HCM 95th %tile Q(veh)	1.4	0.2	-	-	0.1	-	-	4.2

Intersection	
Int Delay, s/veh	3.7

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	116	94	42	224	83	81
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	30	30	30	30	30	30
Mvmt Flow	126	102	46	243	90	88

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	228	0	512	177
Stage 1	-	-	-	-	177	-
Stage 2	-	-	-	-	335	-
Critical Hdwy	-	-	4.4	-	6.7	6.5
Critical Hdwy Stg 1	-	-	-	-	5.7	-
Critical Hdwy Stg 2	-	-	-	-	5.7	-
Follow-up Hdwy	-	-	2.47	-	3.77	3.57
Pot Cap-1 Maneuver	-	-	1192	-	476	799
Stage 1	-	-	-	-	790	-
Stage 2	-	-	-	-	666	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1192	-	455	799
Mov Cap-2 Maneuver	-	-	-	-	455	-
Stage 1	-	-	-	-	790	-
Stage 2	-	-	-	-	636	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.3	12.5
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	NBLn2	EBT	EBR	WBL	WBT
Capacity (veh/h)	455	799	-	-	1192	-
HCM Lane V/C Ratio	0.198	0.11	-	-	0.038	-
HCM Control Delay (s)	14.9	10.1	-	-	8.1	0
HCM Lane LOS	B	B	-	-	A	A
HCM 95th %tile Q(veh)	0.7	0.4	-	-	0.1	-

Intersection	
Int Delay, s/veh	2.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	13	4	27	28	7	1	18	213	6	1	233	3
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	220	-	-	238	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	20	20	20	20	20	20
Mvmt Flow	14	4	29	30	8	1	20	232	7	1	253	3

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	535	534	255	548	533	235	257	0	0	238	0	0
Stage 1	257	257	-	274	274	-	-	-	-	-	-	-
Stage 2	278	277	-	274	259	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.2	6.6	6.3	4.3	-	-	4.3	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.59	4.09	3.39	2.38	-	-	2.38	-	-
Pot Cap-1 Maneuver	444	441	765	435	442	785	1210	-	-	1230	-	-
Stage 1	730	680	-	715	669	-	-	-	-	-	-	-
Stage 2	711	667	-	715	679	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	432	433	765	410	434	785	1210	-	-	1230	-	-
Mov Cap-2 Maneuver	432	433	-	410	434	-	-	-	-	-	-	-
Stage 1	718	679	-	703	658	-	-	-	-	-	-	-
Stage 2	690	656	-	683	678	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	11.6	14.5	0.6	0
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1210	-	-	590	420	1230	-	-
HCM Lane V/C Ratio	0.016	-	-	0.081	0.093	0.001	-	-
HCM Control Delay (s)	8	-	-	11.6	14.5	7.9	-	-
HCM Lane LOS	A	-	-	B	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.3	0.3	0	-	-

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	6	99	148	46	70	92	51	364	27	44	326	10
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1727	1900	1900	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	7	108	161	50	76	100	55	396	29	48	354	11
Adj No. of Lanes	0	1	0	0	1	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	44	134	192	93	116	127	852	495	36	819	454	14
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.21	0.21	0.21	0.21	0.21	0.21	0.52	0.16	0.16	0.50	0.14	0.14
Ln Grp Delay, s/veh	37.1	0.0	0.0	35.6	0.0	0.0	10.9	58.2	58.3	11.7	59.9	59.5
Ln Grp LOS	D			D			B	E	E	B	E	E
Approach Vol, veh/h		276			226			480			413	
Approach Delay, s/veh		37.1			35.6			52.8			54.1	
Approach LOS		D			D			D			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1		4	6	5		8
Case No	4.0	2.0		8.0	4.0	2.0		8.0
Phs Duration (G+Y+Rc), s	18.4	48.8		22.8	16.6	50.6		22.8
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green (Gmax), s	27.0	17.0		34.0	27.0	17.0		34.0
Max Allow Headway (MAH), s	4.0	4.1		4.3	4.0	4.1		4.3
Max Q Clear (g_c+I1), s	13.1	3.4		17.0	11.5	3.5		16.0
Green Ext Time (g_e), s	1.2	0.2		1.8	1.1	0.2		1.8
Prob of Phs Call (p_c)	1.00	0.70		1.00	1.00	0.75		1.00
Prob of Max Out (p_x)	0.01	0.00		0.01	0.00	0.00		0.01

Left-Turn Movement Data								
Assigned Mvmt		1		7		5		3
Mvmt Sat Flow, veh/h		1645		14		1645		210

Through Movement Data								
Assigned Mvmt	2			4	6			8
Mvmt Sat Flow, veh/h	3102			643	3250			557

Right-Turn Movement Data								
Assigned Mvmt	12			14	16			18
Mvmt Sat Flow, veh/h	226			920	101			609

Left Lane Group Data								
Assigned Mvmt	0	1	0	7	0	5	0	3
Lane Assignment		(Prot)		L+T+R		(Prot)		L+T+R
Lanes in Grp	0	1	0	1	0	1	0	1

Grp Vol (v), veh/h	0	48	0	276	0	55	0	226
Grp Sat Flow (s), veh/h/ln	0	1645	0	1577	0	1645	0	1375
Q Serve Time (g_s), s	0.0	1.4	0.0	1.0	0.0	1.5	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	1.4	0.0	15.0	0.0	1.5	0.0	14.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	1228	0	0	0	1128
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	1725	0	0	0	1251
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	18.8	0.0	0.0	0.0	18.8
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	4.8	0.0	0.0	0.0	3.8
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	12.1	0.0	0.0	0.0	5.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	12.1	0.0	0.0	0.0	5.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	0.03	0.00	1.00	0.00	0.22
Lane Grp Cap (c), veh/h	0	819	0	371	0	852	0	337
V/C Ratio (X)	0.00	0.06	0.00	0.74	0.00	0.06	0.00	0.67
Avail Cap (c_a), veh/h	0	819	0	632	0	852	0	573
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	11.7	0.0	34.1	0.0	10.8	0.0	33.3
Incr Delay (d2), s/veh	0.0	0.0	0.0	3.0	0.0	0.0	0.0	2.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	11.7	0.0	37.1	0.0	10.9	0.0	35.6
1st-Term Q (Q1), veh/ln	0.0	0.6	0.0	6.5	0.0	0.7	0.0	5.3
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.2
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.6	0.0	6.8	0.0	0.7	0.0	5.5
%ile Storage Ratio (RQ%)	0.00	0.07	0.00	0.01	0.00	0.10	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	6	0	0	8
Lane Assignment	T				T			
Lanes in Grp	1	0	0	0	1	0	0	0
Grp Vol (v), veh/h	209	0	0	0	178	0	0	0
Grp Sat Flow (s), veh/h/ln	1641	0	0	0	1641	0	0	0
Q Serve Time (g_s), s	11.0	0.0	0.0	0.0	9.4	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	11.0	0.0	0.0	0.0	9.4	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	262	0	0	0	229	0	0	0
V/C Ratio (X)	0.80	0.00	0.00	0.00	0.78	0.00	0.00	0.00
Avail Cap (c_a), veh/h	492	0	0	0	492	0	0	0
Upstream Filter (I)	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	36.4	0.0	0.0	0.0	37.4	0.0	0.0	0.0
Incr Delay (d2), s/veh	21.8	0.0	0.0	0.0	22.6	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	58.2	0.0	0.0	0.0	59.9	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	5.0	0.0	0.0	0.0	4.3	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	1.6	0.0	0.0	0.0	1.4	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	6.6	0.0	0.0	0.0	5.7	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.06	0.00	0.00	0.00	0.14	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	0	14	16	0	0	18
Lane Assignment	T+R				T+R			
Lanes in Grp	1	0	0	0	1	0	0	0
Grp Vol (v), veh/h	216	0	0	0	187	0	0	0
Grp Sat Flow (s), veh/h/ln	1687	0	0	0	1709	0	0	0
Q Serve Time (g_s), s	11.1	0.0	0.0	0.0	9.5	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	11.1	0.0	0.0	0.0	9.5	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.13	0.00	0.00	0.58	0.06	0.00	0.00	0.44
Lane Grp Cap (c), veh/h	269	0	0	0	239	0	0	0
V/C Ratio (X)	0.80	0.00	0.00	0.00	0.78	0.00	0.00	0.00
Avail Cap (c_a), veh/h	506	0	0	0	513	0	0	0
Upstream Filter (I)	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	36.5	0.0	0.0	0.0	37.4	0.0	0.0	0.0
Incr Delay (d2), s/veh	21.9	0.0	0.0	0.0	22.1	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	58.3	0.0	0.0	0.0	59.5	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	5.2	0.0	0.0	0.0	4.5	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	1.6	0.0	0.0	0.0	1.5	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	6.8	0.0	0.0	0.0	5.9	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.06	0.00	0.00	0.00	0.14	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	47.3
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	6	99	148	46	70	92	51	364	27	44	326	10
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1727	1900	1900	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	7	108	161	50	76	100	55	396	29	48	354	11
Adj No. of Lanes	0	1	0	0	1	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	44	134	192	93	116	127	852	495	36	819	454	14
Arrive On Green	0.21	0.21	0.21	0.21	0.21	0.21	0.52	0.16	0.16	0.50	0.14	0.14
Sat Flow, veh/h	14	643	920	210	557	609	1645	3102	226	1645	3250	101
Grp Volume(v), veh/h	276	0	0	226	0	0	55	209	216	48	178	187
Grp Sat Flow(s),veh/h/ln	1577	0	0	1375	0	0	1645	1641	1687	1645	1641	1709
Q Serve(g_s), s	1.0	0.0	0.0	0.0	0.0	0.0	1.5	11.0	11.1	1.4	9.4	9.5
Cycle Q Clear(g_c), s	15.0	0.0	0.0	14.0	0.0	0.0	1.5	11.0	11.1	1.4	9.4	9.5
Prop In Lane	0.03		0.58	0.22		0.44	1.00		0.13	1.00		0.06
Lane Grp Cap(c), veh/h	371	0	0	337	0	0	852	262	269	819	229	239
V/C Ratio(X)	0.74	0.00	0.00	0.67	0.00	0.00	0.06	0.80	0.80	0.06	0.78	0.78
Avail Cap(c_a), veh/h	632	0	0	573	0	0	852	492	506	819	492	513
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	34.1	0.0	0.0	33.3	0.0	0.0	10.8	36.4	36.5	11.7	37.4	37.4
Incr Delay (d2), s/veh	3.0	0.0	0.0	2.3	0.0	0.0	0.0	21.8	21.9	0.0	22.6	22.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.8	0.0	0.0	5.5	0.0	0.0	0.7	6.6	6.8	0.6	5.7	5.9
LnGrp Delay(d),s/veh	37.1	0.0	0.0	35.6	0.0	0.0	10.9	58.2	58.3	11.7	59.9	59.5
LnGrp LOS	D			D			B	E	E	B	E	E
Approach Vol, veh/h		276			226			480			413	
Approach Delay, s/veh		37.1			35.6			52.8			54.1	
Approach LOS		D			D			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	48.8	18.4		22.8	50.6	16.6		22.8
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	17.0	27.0		34.0	17.0	27.0		34.0
Max Q Clear Time (g_c+I1), s	3.4	13.1		17.0	3.5	11.5		16.0
Green Ext Time (p_c), s	0.2	1.2		1.8	0.2	1.1		1.8

Intersection Summary	
HCM 2010 Ctrl Delay	47.3
HCM 2010 LOS	D

Intersection	
Int Delay, s/veh	2.9

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	3	153	73	299	399	10
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	20	331	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	3	166	79	325	434	11

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	923	439	445	0	-	0
Stage 1	439	-	-	-	-	-
Stage 2	484	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	290	601	1074	-	-	-
Stage 1	633	-	-	-	-	-
Stage 2	603	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	269	601	1074	-	-	-
Mov Cap-2 Maneuver	269	-	-	-	-	-
Stage 1	633	-	-	-	-	-
Stage 2	559	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	13.4	1.7	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	1074	-	269	601	-	-
HCM Lane V/C Ratio	0.074	-	0.012	0.277	-	-
HCM Control Delay (s)	8.6	-	18.5	13.3	-	-
HCM Lane LOS	A	-	C	B	-	-
HCM 95th %tile Q(veh)	0.2	-	0	1.1	-	-

Intersection	
Int Delay, s/veh	4.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	0	45	98	42	93	0	118	0	35	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	0	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	30	30	30	30	30	30	30	30	30	30	30	30
Mvmt Flow	0	49	107	46	101	0	128	0	38	0	0	0

Major/Minor	Major1			Major2			Minor1		
Conflicting Flow All	101	0	0	155	0	0	294	294	102
Stage 1	-	-	-	-	-	-	102	102	-
Stage 2	-	-	-	-	-	-	192	192	-
Critical Hdwy	4.4	-	-	4.4	-	-	6.7	6.8	6.5
Critical Hdwy Stg 1	-	-	-	-	-	-	5.7	5.8	-
Critical Hdwy Stg 2	-	-	-	-	-	-	5.7	5.8	-
Follow-up Hdwy	2.47	-	-	2.47	-	-	3.77	4.27	3.57
Pot Cap-1 Maneuver	1333	-	-	1271	-	-	642	573	882
Stage 1	-	-	-	-	-	-	857	759	-
Stage 2	-	-	-	-	-	-	778	692	-
Platoon blocked, %		-	-		-	-			
Mov Cap-1 Maneuver	1333	-	-	1271	-	-	618	0	882
Mov Cap-2 Maneuver	-	-	-	-	-	-	618	0	-
Stage 1	-	-	-	-	-	-	857	0	-
Stage 2	-	-	-	-	-	-	748	0	-

Approach	EB	WB	NB
HCM Control Delay, s	0	2.5	11.6
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	NBLn2	EBL	EBT	EBR	WBL	WBT	WBR
Capacity (veh/h)	618	882	1333	-	-	1271	-	-
HCM Lane V/C Ratio	0.208	0.043	-	-	-	0.036	-	-
HCM Control Delay (s)	12.3	9.3	0	-	-	7.9	0	-
HCM Lane LOS	B	A	A	-	-	A	A	-
HCM 95th %tile Q(veh)	0.8	0.1	0	-	-	0.1	-	-

PM 2035 %Growth Only

Intersection	
Int Delay, s/veh	5.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	42	96	7	40	52	4	11	228	222	13	46	21
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	46	104	8	43	57	4	12	248	241	14	50	23

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	513	603	61	538	493	368	73	0	0	489	0	0
Stage 1	90	90	-	392	392	-	-	-	-	-	-	-
Stage 2	423	513	-	146	101	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.2	6.6	6.3	4.2	-	-	4.2	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.59	4.09	3.39	2.29	-	-	2.29	-	-
Pot Cap-1 Maneuver	459	403	982	442	466	660	1477	-	-	1034	-	-
Stage 1	898	805	-	617	593	-	-	-	-	-	-	-
Stage 2	593	523	-	838	796	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	405	393	982	342	454	660	1477	-	-	1034	-	-
Mov Cap-2 Maneuver	405	393	-	342	454	-	-	-	-	-	-	-
Stage 1	887	794	-	610	586	-	-	-	-	-	-	-
Stage 2	526	517	-	712	785	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	19.3	17	0.2	1.4
HCM LOS	C	C		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1477	-	-	408	404	1034	-	-
HCM Lane V/C Ratio	0.008	-	-	0.386	0.258	0.014	-	-
HCM Control Delay (s)	7.5	0	-	19.3	17	8.5	0	-
HCM Lane LOS	A	A	-	C	C	A	A	-
HCM 95th %tile Q(veh)	0	-	-	1.8	1	0	-	-

Intersection	
Intersection Delay, s/veh	10
Intersection LOS	A

Movement	EBU	EBL	EBT	WBU	WBT	WBR	SBU	SBL	SBR
Vol, veh/h	0	126	152	0	117	133	0	97	114
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	137	165	0	127	145	0	105	124
Number of Lanes	0	1	1	0	1	1	0	1	1

Approach	EB	WB	SB
Opposing Approach	WB	EB	
Opposing Lanes	2	2	0
Conflicting Approach Left	SB		WB
Conflicting Lanes Left	2	0	2
Conflicting Approach Right		SB	EB
Conflicting Lanes Right	0	2	2
HCM Control Delay	10.5	9.4	10.1
HCM LOS	B	A	B

Lane	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1	SBLn2
Vol Left, %	100%	0%	0%	0%	100%	0%
Vol Thru, %	0%	100%	100%	0%	0%	0%
Vol Right, %	0%	0%	0%	100%	0%	100%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	126	152	117	133	97	114
LT Vol	126	0	0	0	97	0
Through Vol	0	152	117	0	0	0
RT Vol	0	0	0	133	0	114
Lane Flow Rate	137	165	127	145	105	124
Geometry Grp	7	7	7	7	7	7
Degree of Util (X)	0.232	0.257	0.2	0.199	0.192	0.184
Departure Headway (Hd)	6.103	5.599	5.67	4.963	6.557	5.348
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	583	636	628	716	543	664
Service Time	3.886	3.381	3.453	2.746	4.347	3.138
HCM Lane V/C Ratio	0.235	0.259	0.202	0.203	0.193	0.187
HCM Control Delay	10.7	10.3	9.9	9	10.9	9.4
HCM Lane LOS	B	B	A	A	B	A
HCM 95th-tile Q	0.9	1	0.7	0.7	0.7	0.7

Intersection	
Intersection Delay, s/veh	7.7
Intersection LOS	A

Movement	EBU	EBL	EBR	NBU	NBL	NBT	SBU	SBT	SBR	SEU	SEL	SER
Vol, veh/h	0	0	0	0	0	0	0	54	22	0	0	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	0	0	0	0	0	0	59	24	0	0	0
Number of Lanes	0	0	0	0	1	0	0	0	1	0	0	1

Approach	NB	SB	SE
Opposing Approach	SB	NB	
Opposing Lanes	2	1	0
Conflicting Approach Left	SE		SB
Conflicting Lanes Left	1	0	2
Conflicting Approach Right		SE	NB
Conflicting Lanes Right	0	1	1
HCM Control Delay	0	7.7	0
HCM LOS	-	A	-

Lane	NBLn1	SELn1	SBLn1	SBLn2
Vol Left, %	0%	0%	0%	0%
Vol Thru, %	100%	100%	71%	100%
Vol Right, %	0%	0%	29%	0%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	0	0	76	0
LT Vol	0	0	0	0
Through Vol	0	0	54	0
RT Vol	0	0	22	0
Lane Flow Rate	0	0	83	0
Geometry Grp	5	2	7	7
Degree of Util (X)	0	0	0.103	0
Departure Headway (Hd)	4.314	4.214	4.467	4.67
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	0	0	807	0
Service Time	2.373	2.273	2.167	2.37
HCM Lane V/C Ratio	0	0	0.103	0
HCM Control Delay	7.4	7.3	7.7	7.4
HCM Lane LOS	N	N	A	N
HCM 95th-tile Q	0	0	0.3	0

Intersection	
Int Delay, s/veh	4.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	150	377	3	8	8	40	0	0	0	20	47	59
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	116	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	29	29	29	29	29	29	10	10	10	10	10	10
Mvmt Flow	163	410	3	9	9	43	0	0	0	22	51	64

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	52	0	0	413	0	0	843	808	411	786	787	30
Stage 1	-	-	-	-	-	-	738	738	-	48	48	-
Stage 2	-	-	-	-	-	-	105	70	-	738	739	-
Critical Hdwy	4.39	-	-	4.39	-	-	7.2	6.6	6.3	7.2	6.6	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Follow-up Hdwy	2.461	-	-	2.461	-	-	3.59	4.09	3.39	3.59	4.09	3.39
Pot Cap-1 Maneuver	1397	-	-	1015	-	-	275	306	624	300	315	1022
Stage 1	-	-	-	-	-	-	397	413	-	945	839	-
Stage 2	-	-	-	-	-	-	881	821	-	397	412	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1397	-	-	1015	-	-	201	268	624	271	276	1022
Mov Cap-2 Maneuver	-	-	-	-	-	-	201	268	-	271	276	-
Stage 1	-	-	-	-	-	-	351	365	-	835	831	-
Stage 2	-	-	-	-	-	-	768	814	-	351	364	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	2.2	1.2	0	17.8
HCM LOS			A	C

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	-	1397	-	-	1015	-	-	417
HCM Lane V/C Ratio	-	0.117	-	-	0.009	-	-	0.328
HCM Control Delay (s)	0	7.9	-	-	8.6	0	-	17.8
HCM Lane LOS	A	A	-	-	A	A	-	C
HCM 95th %tile Q(veh)	-	0.4	-	-	0	-	-	1.4

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	0	5	0	0	67	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	29	29	10	10	10	10
Mvmt Flow	0	5	0	0	73	0

Major/Minor	Major1		Minor2	
Conflicting Flow All	0	0	5	0
Stage 1	-	-	0	-
Stage 2	-	-	5	-
Critical Hdwy	-	-	7.2	-
Critical Hdwy Stg 1	-	-	-	-
Critical Hdwy Stg 2	-	-	6.2	-
Follow-up Hdwy	-	-	3.59	-
Pot Cap-1 Maneuver	-	-	995	-
Stage 1	-	-	-	-
Stage 2	-	-	997	-
Platoon blocked, %		-		
Mov Cap-1 Maneuver	-	-	995	-
Mov Cap-2 Maneuver	-	-	995	-
Stage 1	-	-	-	-
Stage 2	-	-	997	-

Approach	EB	SB
HCM Control Delay, s	0	
HCM LOS		-

Minor Lane/Major Mvmt	EBL	EBT	SBLn1
Capacity (veh/h)	-	-	-
HCM Lane V/C Ratio	-	-	-
HCM Control Delay (s)	0	-	-
HCM Lane LOS	A	-	-
HCM 95th %tile Q(veh)	-	-	-

Intersection	
Int Delay, s/veh	4.9

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	328	328	103	77	20	69
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	500	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	29	29	29	29	10	10
Mvmt Flow	357	357	112	84	22	75

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	196	0	-	0	1224	154
Stage 1	-	-	-	-	154	-
Stage 2	-	-	-	-	1070	-
Critical Hdwy	4.39	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.461	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1231	-	-	-	190	871
Stage 1	-	-	-	-	855	-
Stage 2	-	-	-	-	318	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1231	-	-	-	135	871
Mov Cap-2 Maneuver	-	-	-	-	135	-
Stage 1	-	-	-	-	855	-
Stage 2	-	-	-	-	226	-

Approach	EB	WB	SB
HCM Control Delay, s	4.6	0	17.2
HCM LOS			C

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1231	-	-	-	391
HCM Lane V/C Ratio	0.29	-	-	-	0.247
HCM Control Delay (s)	9.1	-	-	-	17.2
HCM Lane LOS	A	-	-	-	C
HCM 95th %tile Q(veh)	1.2	-	-	-	1

Intersection	
Int Delay, s/veh	0.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NWL	NWR
Vol, veh/h	0	425	53	2	91	0	14	11	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	None	-	-
Storage Length	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	0	-	0	-
Grade, %	-	0	-	-	0	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	29	29	29	29	29	29	28	28	10	10
Mvmt Flow	0	462	58	2	99	0	15	12	0	0

Major/Minor	Major1			Major2			Minor2			
Conflicting Flow All	99	0	0	520	0	0	594	99		
Stage 1	-	-	-	-	-	-	103	-		
Stage 2	-	-	-	-	-	-	491	-		
Critical Hdwy	4.39	-	-	4.39	-	-	6.68	6.48		
Critical Hdwy Stg 1	-	-	-	-	-	-	5.68	-		
Critical Hdwy Stg 2	-	-	-	-	-	-	5.68	-		
Follow-up Hdwy	2.461	-	-	2.461	-	-	3.752	3.552		
Pot Cap-1 Maneuver	1341	-	-	922	-	-	427	890		
Stage 1	-	-	-	-	-	-	860	-		
Stage 2	-	-	-	-	-	-	565	-		
Platoon blocked, %		-	-		-	-				
Mov Cap-1 Maneuver	1341	-	-	922	-	-	426	890		
Mov Cap-2 Maneuver	-	-	-	-	-	-	426	-		
Stage 1	-	-	-	-	-	-	858	-		
Stage 2	-	-	-	-	-	-	565	-		

Approach	EB	WB	SB
HCM Control Delay, s	0	0.2	9.2
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	1341	-	-	922	-	-	890
HCM Lane V/C Ratio	-	-	-	0.002	-	-	0.031
HCM Control Delay (s)	0	-	-	8.9	0	-	9.2
HCM Lane LOS	A	-	-	A	A	-	A
HCM 95th %tile Q(veh)	0	-	-	0	-	-	0.1

Intersection	
Int Delay, s/veh	1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBR	SEL	SER
Vol, veh/h	8	421	0	0	63	29	34	7	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	None	-	-
Storage Length	-	-	-	-	-	0	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	0	-	0	-
Grade, %	-	0	-	-	0	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	29	29	29	29	29	29	28	28	10	10
Mvmt Flow	9	458	0	0	68	32	37	8	0	0

Major/Minor	Major1			Major2			Minor1			
Conflicting Flow All	68	0	0	458	0	0	543	458		
Stage 1	-	-	-	-	-	-	475	-		
Stage 2	-	-	-	-	-	-	68	-		
Critical Hdwy	4.39	-	-	4.39	-	-	6.68	6.48		
Critical Hdwy Stg 1	-	-	-	-	-	-	5.68	-		
Critical Hdwy Stg 2	-	-	-	-	-	-	5.68	-		
Follow-up Hdwy	2.461	-	-	2.461	-	-	3.752	3.552		
Pot Cap-1 Maneuver	1378	-	-	975	-	-	459	552		
Stage 1	-	-	-	-	-	-	575	-		
Stage 2	-	-	-	-	-	-	893	-		
Platoon blocked, %		-	-		-	-				
Mov Cap-1 Maneuver	1378	-	-	975	-	-	455	552		
Mov Cap-2 Maneuver	-	-	-	-	-	-	455	-		
Stage 1	-	-	-	-	-	-	570	-		
Stage 2	-	-	-	-	-	-	893	-		

Approach	EB	WB	NB
HCM Control Delay, s	0.1	0	12.1
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR
Capacity (veh/h)	552	1378	-	-	975	-	-
HCM Lane V/C Ratio	0.081	0.006	-	-	-	-	-
HCM Control Delay (s)	12.1	7.6	0	-	0	-	-
HCM Lane LOS	B	A	A	-	A	-	-
HCM 95th %tile Q(veh)	0.3	0	-	-	0	-	-

Intersection	
Int Delay, s/veh	3.2

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	3	170	99	407	543	14
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	0	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	19	19	19	19
Mvmt Flow	3	185	108	442	590	15

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1256	598	605	0	-	0
Stage 1	598	-	-	-	-	-
Stage 2	658	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.29	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.371	-	-	-
Pot Cap-1 Maneuver	182	488	895	-	-	-
Stage 1	534	-	-	-	-	-
Stage 2	500	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	160	488	895	-	-	-
Mov Cap-2 Maneuver	160	-	-	-	-	-
Stage 1	534	-	-	-	-	-
Stage 2	440	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	17.6	1.9	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	895	-	471	-	-
HCM Lane V/C Ratio	0.12	-	0.399	-	-
HCM Control Delay (s)	9.6	-	17.6	-	-
HCM Lane LOS	A	-	C	-	-
HCM 95th %tile Q(veh)	0.4	-	1.9	-	-

Intersection	
Intersection Delay, s/veh	75.3
Intersection LOS	F

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	58	699	122	0	134	188	66	0	47	339	212
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	63	760	133	0	146	204	72	0	51	368	230
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	1	1	2
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	2	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	2	1
HCM Control Delay	78	78.1	77.8
HCM LOS	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1	SBLn2
Vol Left, %	8%	7%	35%	44%	0%
Vol Thru, %	57%	80%	48%	56%	0%
Vol Right, %	35%	14%	17%	0%	100%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	598	879	388	305	21
LT Vol	47	58	134	135	0
Through Vol	339	699	188	170	0
RT Vol	212	122	66	0	21
Lane Flow Rate	650	955	422	332	23
Geometry Grp	5	2	2	7	7
Degree of Util (X)	1	1	1	0.929	0.058
Departure Headway (Hd)	9.398	9.425	9.462	10.088	9.167
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	390	392	384	361	393
Service Time	7.491	7.518	7.555	7.788	6.867
HCM Lane V/C Ratio	1.667	2.436	1.099	0.92	0.059
HCM Control Delay	77.8	78	78.1	63.7	12.4
HCM Lane LOS	F	F	F	F	B
HCM 95th-tile Q	11.9	11.9	11.9	9.7	0.2

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	135	170	21
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10
Mvmt Flow	0	147	185	23
Number of Lanes	0	0	1	1

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	1
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	60.4
HCM LOS	F

Lane

Intersection	
Intersection Delay, s/veh	52.8
Intersection LOS	F

Movement	EBU	EBL	EBR	NBU	NBL	NBT	SBU	SBT	SBR
Vol, veh/h	0	305	539	0	251	502	0	311	47
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	22	22	10	25	25	10	25	25
Mvmt Flow	0	332	586	0	273	546	0	338	51
Number of Lanes	0	1	1	0	1	1	0	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	1	2
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	1	2	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	2	0	2
HCM Control Delay	55.7	55.9	39.2
HCM LOS	F	F	E

Lane	NBLn1	NBLn2	EBLn1	EBLn2	SBLn1
Vol Left, %	100%	0%	100%	0%	0%
Vol Thru, %	0%	100%	0%	0%	87%
Vol Right, %	0%	0%	0%	100%	13%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	251	502	305	539	358
LT Vol	251	0	305	0	0
Through Vol	0	502	0	0	311
RT Vol	0	0	0	539	47
Lane Flow Rate	273	546	332	586	389
Geometry Grp	7	7	7	7	4
Degree of Util (X)	0.648	1	0.78	1	0.836
Departure Headway (Hd)	8.549	8.035	8.468	7.269	7.734
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	426	453	431	504	471
Service Time	6.259	5.759	6.168	4.969	5.734
HCM Lane V/C Ratio	0.641	1.205	0.77	1.163	0.826
HCM Control Delay	25.7	71	35.3	67.2	39.2
HCM Lane LOS	D	F	E	F	E
HCM 95th-tile Q	4.5	12.9	6.7	13.6	8.2

Intersection	
Intersection Delay, s/veh	79.2
Intersection LOS	F

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Vol, veh/h	0	44	528	5	0	106	199	42	0	5	448	334	0	172	242	17
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	22	22	22	10	22	22	22
Mvmt Flow	0	48	574	5	0	115	216	46	0	5	487	363	0	187	263	18
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	79.1	79	78.8	80.2
HCM LOS	F	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	1%	8%	31%	40%
Vol Thru, %	57%	92%	57%	56%
Vol Right, %	42%	1%	12%	4%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	787	577	347	431
LT Vol	5	44	106	172
Through Vol	448	528	199	242
RT Vol	334	5	42	17
Lane Flow Rate	855	627	377	468
Geometry Grp	1	1	1	1
Degree of Util (X)	1	1	1	1
Departure Headway (Hd)	9.716	9.775	9.756	10.025
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	385	376	373	365
Service Time	7.718	7.777	7.756	8.027
HCM Lane V/C Ratio	2.221	1.668	1.011	1.282
HCM Control Delay	78.8	79.1	79	80.2
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	11.8	11.8	11.8	11.6

Intersection	
Int Delay, s/veh	41.2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	104	23	967	549	74	289
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	22	22	22	22
Mvmt Flow	113	25	1051	597	80	314

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1824	1349	0	0	1648	0
Stage 1	1349	-	-	-	-	-
Stage 2	475	-	-	-	-	-
Critical Hdwy	6.5	6.3	-	-	4.32	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	-	-	2.398	-
Pot Cap-1 Maneuver	~ 81	177	-	-	342	-
Stage 1	232	-	-	-	-	-
Stage 2	609	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	~ 58	177	-	-	342	-
Mov Cap-2 Maneuver	~ 58	-	-	-	-	-
Stage 1	232	-	-	-	-	-
Stage 2	437	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	$ 639.3	0	3.8
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	66	342	-
HCM Lane V/C Ratio	-	-	2.092	0.235	-
HCM Control Delay (s)	-	-	$ 639.3	18.7	0
HCM Lane LOS	-	-	F	C	A
HCM 95th %tile Q(veh)	-	-	13	0.9	-

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	1022	1109	12	26	390	2	33	67	50	5	41	395
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	1111	1205	13	28	424	2	36	73	54	5	45	429
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	693	1327	14	169	1336	6	67	137	101	154	21	200
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.78	0.78	0.78	0.78	0.78	0.78	0.15	0.15	0.15	0.15	0.15	0.15
Ln Grp Delay, s/veh	298.2	0.0	18.4	33.6	0.0	3.7	62.5	0.0	44.8	46.5	0.0	577.5
Ln Grp LOS	F		B	C		A	E		D	D		F
Approach Vol, veh/h		2329			454			163			479	
Approach Delay, s/veh		151.9			5.5			48.7			572.0	
Approach LOS		F			A			D			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Case No		6.0		6.0		6.0		6.0
Phs Duration (G+Y+Rc), s		20.0		88.0		20.0		88.0
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green (Gmax), s		16.0		84.0		16.0		84.0
Max Allow Headway (MAH), s		4.4		4.7		4.4		4.7
Max Q Clear (g_c+I1), s		18.0		86.0		18.0		65.6
Green Ext Time (g_e), s		0.0		0.0		0.0		16.1
Prob of Phs Call (p_c)		1.00		1.00		1.00		1.00
Prob of Max Out (p_x)		1.00		1.00		1.00		0.89

Left-Turn Movement Data								
Assigned Mvmt		5		7		1		3
Mvmt Sat Flow, veh/h		850		888		1167		423

Through Movement Data								
Assigned Mvmt		2		4		6		8
Mvmt Sat Flow, veh/h		924		1706		141		1718

Right-Turn Movement Data								
Assigned Mvmt		12		14		16		18
Mvmt Sat Flow, veh/h		683		18		1348		8

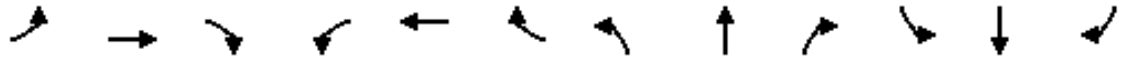
Left Lane Group Data								
Assigned Mvmt	0	5	0	7	0	1	0	3
Lane Assignment								
Lanes in Grp	0	1	0	1	0	1	0	1

Grp Vol (v), veh/h	0	36	0	1111	0	5	0	28
Grp Sat Flow (s), veh/h/ln	0	850	0	888	0	1167	0	423
Q Serve Time (g_s), s	0.0	0.0	0.0	76.1	0.0	0.4	0.0	5.8
Cycle Q Clear Time (g_c), s	0.0	16.0	0.0	84.0	0.0	8.3	0.0	63.6
Perm LT Sat Flow (s_l), veh/h/ln	0	850	0	888	0	1167	0	423
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	16.0	0.0	84.0	0.0	16.0	0.0	84.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	76.1	0.0	8.1	0.0	26.2
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	76.1	0.0	0.4	0.0	5.8
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	67	0	693	0	154	0	169
V/C Ratio (X)	0.00	0.54	0.00	1.60	0.00	0.03	0.00	0.17
Avail Cap (c_a), veh/h	0	67	0	693	0	154	0	169
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	54.0	0.0	19.6	0.0	46.4	0.0	33.1
Incr Delay (d2), s/veh	0.0	8.5	0.0	278.6	0.0	0.1	0.0	0.5
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	62.5	0.0	298.2	0.0	46.5	0.0	33.6
1st-Term Q (Q1), veh/ln	0.0	1.1	0.0	20.6	0.0	0.1	0.0	0.7
2nd-Term Q (Q2), veh/ln	0.0	0.2	0.0	53.6	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.2	0.0	74.2	0.0	0.1	0.0	0.7
%ile Storage Ratio (RQ%)	0.00	0.53	0.00	7.70	0.00	0.02	0.00	0.10
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	104.6	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	0	8
Lane Assignment								
Lanes in Grp	0	0	0	0	0	0	0	0
Grp Vol (v), veh/h	0	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	0	18
Lane Assignment		T+R		T+R		T+R		T+R
Lanes in Grp	0	1	0	1	0	1	0	1
Grp Vol (v), veh/h	0	127	0	1218	0	474	0	426
Grp Sat Flow (s), veh/h/ln	0	1607	0	1724	0	1489	0	1726
Q Serve Time (g_s), s	0.0	7.9	0.0	57.8	0.0	16.0	0.0	7.9
Cycle Q Clear Time (g_c), s	0.0	7.9	0.0	57.8	0.0	16.0	0.0	7.9
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.43	0.00	0.01	0.00	0.91	0.00	0.00
Lane Grp Cap (c), veh/h	0	238	0	1341	0	221	0	1342
V/C Ratio (X)	0.00	0.53	0.00	0.91	0.00	2.15	0.00	0.32
Avail Cap (c_a), veh/h	0	238	0	1341	0	221	0	1342
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	42.5	0.0	9.1	0.0	46.0	0.0	3.5
Incr Delay (d2), s/veh	0.0	2.3	0.0	9.3	0.0	531.5	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	44.8	0.0	18.4	0.0	577.5	0.0	3.7
1st-Term Q (Q1), veh/ln	0.0	3.5	0.0	26.7	0.0	6.6	0.0	3.7
2nd-Term Q (Q2), veh/ln	0.0	0.2	0.0	3.5	0.0	32.6	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	3.6	0.0	30.2	0.0	39.1	0.0	3.7
%ile Storage Ratio (RQ%)	0.00	0.01	0.00	0.09	0.00	0.12	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	63.3	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	186.3
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	1022	1109	12	26	390	2	33	67	50	5	41	395
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	1111	1205	13	28	424	2	36	73	54	5	45	429
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	693	1327	14	169	1336	6	67	137	101	154	21	200
Arrive On Green	0.78	0.78	0.78	0.78	0.78	0.78	0.15	0.15	0.15	0.15	0.15	0.15
Sat Flow, veh/h	888	1706	18	423	1718	8	850	924	683	1167	141	1348
Grp Volume(v), veh/h	1111	0	1218	28	0	426	36	0	127	5	0	474
Grp Sat Flow(s),veh/h/ln	888	0	1724	423	0	1726	850	0	1607	1167	0	1489
Q Serve(g_s), s	76.1	0.0	57.8	5.8	0.0	7.9	0.0	0.0	7.9	0.4	0.0	16.0
Cycle Q Clear(g_c), s	84.0	0.0	57.8	63.6	0.0	7.9	16.0	0.0	7.9	8.3	0.0	16.0
Prop In Lane	1.00		0.01	1.00		0.00	1.00		0.43	1.00		0.91
Lane Grp Cap(c), veh/h	693	0	1341	169	0	1342	67	0	238	154	0	221
V/C Ratio(X)	1.60	0.00	0.91	0.17	0.00	0.32	0.54	0.00	0.53	0.03	0.00	2.15
Avail Cap(c_a), veh/h	693	0	1341	169	0	1342	67	0	238	154	0	221
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	19.6	0.0	9.1	33.1	0.0	3.5	54.0	0.0	42.5	46.4	0.0	46.0
Incr Delay (d2), s/veh	278.6	0.0	9.3	0.5	0.0	0.1	8.5	0.0	2.3	0.1	0.0	531.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	74.2	0.0	30.2	0.7	0.0	3.7	1.2	0.0	3.6	0.1	0.0	39.1
LnGrp Delay(d),s/veh	298.2	0.0	18.4	33.6	0.0	3.7	62.5	0.0	44.8	46.5	0.0	577.5
LnGrp LOS	F		B	C		A	E		D	D		F
Approach Vol, veh/h		2329			454			163			479	
Approach Delay, s/veh		151.9			5.5			48.7			572.0	
Approach LOS		F			A			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Phs Duration (G+Y+Rc), s		20.0		88.0		20.0		88.0
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green Setting (Gmax), s		16.0		84.0		16.0		84.0
Max Q Clear Time (g_c+I1), s		18.0		86.0		18.0		65.6
Green Ext Time (p_c), s		0.0		0.0		0.0		16.1

Intersection Summary		
HCM 2010 Ctrl Delay		186.3
HCM 2010 LOS		F

Intersection	
Intersection Delay, s/veh	47.1
Intersection LOS	E

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Vol, veh/h	0	15	14	11	0	57	46	205	0	13	269	152	0	678	504	14
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	16	15	12	0	62	50	223	0	14	292	165	0	737	548	15
Number of Lanes	0	0	1	0	0	0	1	1	0	0	1	0	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	2	1
HCM Control Delay	12.2	14.4	29.6	63.1
HCM LOS	B	B	D	F

Lane	NBLn1	EBLn1	WBLn1	WBLn2	SBLn1
Vol Left, %	3%	38%	55%	0%	57%
Vol Thru, %	62%	35%	45%	0%	42%
Vol Right, %	35%	28%	0%	100%	1%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	434	40	103	205	1196
LT Vol	13	15	57	0	678
Through Vol	269	14	46	0	504
RT Vol	152	11	0	205	14
Lane Flow Rate	472	43	112	223	1300
Geometry Grp	2	5	7	7	2
Degree of Util (X)	0.8	0.1	0.248	0.434	1
Departure Headway (Hd)	6.233	8.248	7.99	7.013	6.379
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	585	436	452	517	585
Service Time	4.233	6.269	5.695	4.719	4.407
HCM Lane V/C Ratio	0.807	0.099	0.248	0.431	2.222
HCM Control Delay	29.6	12.2	13.3	15	63.1
HCM Lane LOS	D	B	B	B	F
HCM 95th-tile Q	7.8	0.3	1	2.2	14.5

Movement	NBL	NBR	SET	SER	NWL	NWT
Lane Configurations						
Volume (veh/h)	141	51	0	0	0	0
Number	5	12	4	14	3	8
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1598	1598	1727	1727
Adj Flow Rate, veh/h	153	55	0	0	0	0
Adj No. of Lanes	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Opposing Right Turn Influence	Yes				Yes	
Cap, veh/h	187	167	1	1	1349	1416
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.11	0.11	0.00	0.00	0.00	0.00
Ln Grp Delay, s/veh	60.5	50.1	0.0	0.0	0.0	0.0
Ln Grp LOS	E	D				
Approach Vol, veh/h	208		0			0
Approach Delay, s/veh	57.7		0.0			0.0
Approach LOS	E					

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2	4	3				8
Case No		9.0	7.0	2.0				4.0
Phs Duration (G+Y+Rc), s		17.6	0.0	102.4				102.4
Change Period (Y+Rc), s		4.0	4.0	4.0				4.0
Max Green (Gmax), s		42.0	39.0	27.0				70.0
Max Allow Headway (MAH), s		4.2	0.0	0.0				0.0
Max Q Clear (g_c+I1), s		12.9	0.0	0.0				0.0
Green Ext Time (g_e), s		0.7	0.0	0.0				0.0
Prob of Phs Call (p_c)		1.00	0.00	0.00				0.00
Prob of Max Out (p_x)		0.00	0.00	0.00				0.00

Left-Turn Movement Data								
Assigned Mvmt		5	7	3				
Mvmt Sat Flow, veh/h		1645	0	1645				

Through Movement Data								
Assigned Mvmt		2	4					8
Mvmt Sat Flow, veh/h		0	-63909					1727

Right-Turn Movement Data								
Assigned Mvmt		12	14					18
Mvmt Sat Flow, veh/h		1468	1358					0

Left Lane Group Data								
Assigned Mvmt	0	5	7	3	0	0	0	0
Lane Assignment				(Prot)				
Lanes in Grp	0	1	0	1	0	0	0	0

Grp Vol (v), veh/h	0	153	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	1645	0	1645	0	0	0	0
Q Serve Time (g_s), s	0.0	10.9	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	10.9	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	1645	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	-4.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	187	0	1349	0	0	0	0
V/C Ratio (X)	0.00	0.82	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	576	0	1349	0	0	0	0
Upstream Filter (I)	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	52.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	60.5	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	0	0	0	8
Lane Assignment			T					T
Lanes in Grp	0	0	1	0	0	0	0	1
Grp Vol (v), veh/h	0	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	1598	0	0	0	0	1727
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	1	0	0	0	0	1416
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	519	0	0	0	0	1416
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

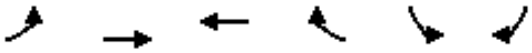
Right Lane Group Data								
Assigned Mvmt	0	12	14	0	0	0	0	18
Lane Assignment		R	R					
Lanes in Grp	0	1	1	0	0	0	0	0
Grp Vol (v), veh/h	0	55	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	1468	1358	0	0	0	0	0
Q Serve Time (g_s), s	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	167	1	0	0	0	0	0
V/C Ratio (X)	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	514	441	0	0	0	0	0
Upstream Filter (I)	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	49.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	50.1	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	57.7
HCM 2010 LOS	E

Movement	NBL	NBR	SET	SER	NWL	NWT
Lane Configurations						
Volume (veh/h)	141	51	0	0	0	0
Number	5	12	4	14	3	8
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1598	1598	1727	1727
Adj Flow Rate, veh/h	153	55	0	0	0	0
Adj No. of Lanes	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Cap, veh/h	187	167	1	1	1349	1416
Arrive On Green	0.11	0.11	0.00	0.00	0.00	0.00
Sat Flow, veh/h	1645	1468	-63909	1358	1645	1727
Grp Volume(v), veh/h	153	55	0	0	0	0
Grp Sat Flow(s),veh/h/ln	1645	1468	1598	1358	1645	1727
Q Serve(g_s), s	10.9	4.1	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	10.9	4.1	0.0	0.0	0.0	0.0
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	187	167	1	1	1349	1416
V/C Ratio(X)	0.82	0.33	0.00	0.00	0.00	0.00
Avail Cap(c_a), veh/h	576	514	519	441	1349	1416
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.99	0.99	0.00	0.00	0.00	0.00
Uniform Delay (d), s/veh	52.0	49.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	8.5	1.1	0.0	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.4	1.7	0.0	0.0	0.0	0.0
LnGrp Delay(d),s/veh	60.5	50.1	0.0	0.0	0.0	0.0
LnGrp LOS	E	D				
Approach Vol, veh/h	208		0			0
Approach Delay, s/veh	57.7		0.0			0.0
Approach LOS	E					

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4				8
Phs Duration (G+Y+Rc), s		17.6	102.4	0.0				102.4
Change Period (Y+Rc), s		4.0	4.0	4.0				4.0
Max Green Setting (Gmax), s		42.0	27.0	39.0				70.0
Max Q Clear Time (g_c+I1), s		12.9	0.0	0.0				0.0
Green Ext Time (p_c), s		0.7	0.0	0.0				0.0

Intersection Summary	
HCM 2010 Ctrl Delay	57.7
HCM 2010 LOS	E



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (veh/h)	29	969	370	181	176	3
Number	7	4	8	18	1	16
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00			1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	32	1053	402	197	191	3
Adj No. of Lanes	1	2	2	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Opposing Right Turn Influence	Yes				Yes	
Cap, veh/h	39	2619	2431	1088	223	199
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.02	0.80	0.74	0.74	0.14	0.14
Ln Grp Delay, s/veh	90.0	4.1	4.7	5.0	60.0	45.0
Ln Grp LOS	F	A	A	A	E	D
Approach Vol, veh/h		1085	599		194	
Approach Delay, s/veh		6.6	4.8		59.7	
Approach LOS		A	A		E	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	6			4			7	8
Case No	9.0			4.0			2.0	7.0
Phs Duration (G+Y+Rc), s	20.2			99.8			6.9	92.9
Change Period (Y+Rc), s	4.0			4.0			4.0	4.0
Max Green (Gmax), s	37.0			75.0			20.0	51.0
Max Allow Headway (MAH), s	4.1			4.1			4.1	4.1
Max Q Clear (g_c+I1), s	15.6			13.5			4.3	6.8
Green Ext Time (g_e), s	0.6			9.6			0.0	9.4
Prob of Phs Call (p_c)	1.00			1.00			0.66	1.00
Prob of Max Out (p_x)	0.00			0.00			0.00	0.00

Left-Turn Movement Data								
Assigned Mvmt	1						7	3
Mvmt Sat Flow, veh/h	1645						1645	0

Through Movement Data								
Assigned Mvmt	6			4				8
Mvmt Sat Flow, veh/h	0			3368				3368

Right-Turn Movement Data								
Assigned Mvmt	16			14				18
Mvmt Sat Flow, veh/h	1468			0				1468

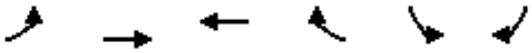
Left Lane Group Data								
Assigned Mvmt	1	0	0	0	0	0	7	3
Lane Assignment							(Prot)	
Lanes in Grp	1	0	0	0	0	0	1	0

Grp Vol (v), veh/h	191	0	0	0	0	0	32	0
Grp Sat Flow (s), veh/h/ln	1645	0	0	0	0	0	1645	0
Q Serve Time (g_s), s	13.6	0.0	0.0	0.0	0.0	0.0	2.3	0.0
Cycle Q Clear Time (g_c), s	13.6	0.0	0.0	0.0	0.0	0.0	2.3	0.0
Perm LT Sat Flow (s_l), veh/h/ln	1645	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	88.9
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	223	0	0	0	0	0	39	0
V/C Ratio (X)	0.86	0.00	0.00	0.00	0.00	0.00	0.82	0.00
Avail Cap (c_a), veh/h	507	0	0	0	0	0	274	0
Upstream Filter (I)	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	50.8	0.0	0.0	0.0	0.0	0.0	58.3	0.0
Incr Delay (d2), s/veh	9.2	0.0	0.0	0.0	0.0	0.0	31.7	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	60.0	0.0	0.0	0.0	0.0	0.0	90.0	0.0
1st-Term Q (Q1), veh/ln	6.2	0.0	0.0	0.0	0.0	0.0	1.1	0.0
2nd-Term Q (Q2), veh/ln	0.6	0.0	0.0	0.0	0.0	0.0	0.3	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00
%ile Back of Q (50%), veh/ln	6.8	0.0	0.0	0.0	0.0	0.0	1.4	0.0
%ile Storage Ratio (RQ%)	1.03	0.00	0.00	0.00	0.00	0.00	0.19	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	6	0	0	4	0	0	0	8
Lane Assignment				T				T
Lanes in Grp	0	0	0	2	0	0	0	2
Grp Vol (v), veh/h	0	0	0	1053	0	0	0	402
Grp Sat Flow (s), veh/h/ln	0	0	0	1641	0	0	0	1641
Q Serve Time (g_s), s	0.0	0.0	0.0	11.5	0.0	0.0	0.0	4.3
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	11.5	0.0	0.0	0.0	4.3
Lane Grp Cap (c), veh/h	0	0	0	2619	0	0	0	2431
V/C Ratio (X)	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.17
Avail Cap (c_a), veh/h	0	0	0	2619	0	0	0	2431
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99
Uniform Delay (d1), s/veh	0.0	0.0	0.0	3.6	0.0	0.0	0.0	4.6
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	4.1	0.0	0.0	0.0	4.7
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	5.1	0.0	0.0	0.0	2.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	5.3	0.0	0.0	0.0	2.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	16	0	0	14	0	0	0	18
Lane Assignment	R							R
Lanes in Grp	1	0	0	0	0	0	0	1
Grp Vol (v), veh/h	3	0	0	0	0	0	0	197
Grp Sat Flow (s), veh/h/ln	1468	0	0	0	0	0	0	1468
Q Serve Time (g_s), s	0.2	0.0	0.0	0.0	0.0	0.0	0.0	4.8
Cycle Q Clear Time (g_c), s	0.2	0.0	0.0	0.0	0.0	0.0	0.0	4.8
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	199	0	0	0	0	0	0	1088
V/C Ratio (X)	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.18
Avail Cap (c_a), veh/h	453	0	0	0	0	0	0	1088
Upstream Filter (I)	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99
Uniform Delay (d1), s/veh	45.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	45.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
1st-Term Q (Q1), veh/ln	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.9
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.2	0.0	0.0	0.0	0.0	0.0	0.0	2.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

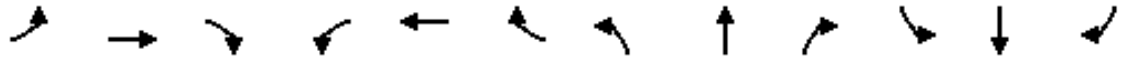
Intersection Summary	
HCM 2010 Ctrl Delay	11.5
HCM 2010 LOS	B



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (veh/h)	29	969	370	181	176	3
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	32	1053	402	197	191	3
Adj No. of Lanes	1	2	2	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Cap, veh/h	39	2619	2431	1088	223	199
Arrive On Green	0.02	0.80	0.74	0.74	0.14	0.14
Sat Flow, veh/h	1645	3368	3368	1468	1645	1468
Grp Volume(v), veh/h	32	1053	402	197	191	3
Grp Sat Flow(s),veh/h/ln	1645	1641	1641	1468	1645	1468
Q Serve(g_s), s	2.3	11.5	4.3	4.8	13.6	0.2
Cycle Q Clear(g_c), s	2.3	11.5	4.3	4.8	13.6	0.2
Prop In Lane	1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	39	2619	2431	1088	223	199
V/C Ratio(X)	0.82	0.40	0.17	0.18	0.86	0.02
Avail Cap(c_a), veh/h	274	2619	2431	1088	507	453
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.99	0.99	1.00	1.00
Uniform Delay (d), s/veh	58.3	3.6	4.6	4.7	50.8	45.0
Incr Delay (d2), s/veh	31.7	0.5	0.1	0.4	9.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.4	5.3	2.0	2.0	6.8	0.2
LnGrp Delay(d),s/veh	90.0	4.1	4.7	5.0	60.0	45.0
LnGrp LOS	F	A	A	A	E	D
Approach Vol, veh/h		1085	599		194	
Approach Delay, s/veh		6.6	4.8		59.7	
Approach LOS		A	A		E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6	7	8
Phs Duration (G+Y+Rc), s				99.8		20.2	6.9	92.9
Change Period (Y+Rc), s				4.0		4.0	4.0	4.0
Max Green Setting (Gmax), s				75.0		37.0	20.0	51.0
Max Q Clear Time (g_c+I1), s				13.5		15.6	4.3	6.8
Green Ext Time (p_c), s				9.6		0.6	0.0	9.4

Intersection Summary	
HCM 2010 Ctrl Delay	11.5
HCM 2010 LOS	B



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	137	1566	325	229	1004	22	37	74	22	57	436	37
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	149	1702	353	249	1091	24	40	80	24	62	474	40
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	175	1504	673	225	1602	717	49	111	94	342	417	355
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.11	0.46	0.46	0.14	0.49	0.49	0.03	0.06	0.06	0.21	0.24	0.24
Ln Grp Delay, s/veh	65.6	99.1	18.0	142.9	25.8	3.5	112.1	63.7	54.8	39.4	132.0	35.6
Ln Grp LOS	E	F	B	F	C	A	F	E	D	D	F	D
Approach Vol, veh/h		2204			1364			144			576	
Approach Delay, s/veh		83.8			46.8			75.7			115.3	
Approach LOS		F			D			E			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	5	6	7	8
Case No	3.0	2.0	3.0	2.0	2.0	3.0	2.0	3.0
Phs Duration (G+Y+Rc), s	11.7	28.9	59.0	20.4	7.6	33.0	16.8	62.6
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	23.0	10.0	55.0	16.0	4.0	29.0	19.0	52.0
Max Allow Headway (MAH), s	4.1	4.0	4.1	4.0	4.1	4.0	4.1	4.0
Max Q Clear (g_c+I1), s	7.5	5.7	57.0	18.4	4.9	31.0	12.7	32.6
Green Ext Time (g_e), s	0.2	0.9	0.0	0.0	0.0	0.0	0.2	6.1
Prob of Phs Call (p_c)	1.00	0.87	1.00	1.00	0.74	1.00	0.99	1.00
Prob of Max Out (p_x)	0.00	0.92	0.00	1.00	1.00	1.00	0.17	0.00

Left-Turn Movement Data								
Assigned Mvmt		1		3	5		7	
Mvmt Sat Flow, veh/h		1645		1645	1645		1645	

Through Movement Data								
Assigned Mvmt	2		4			6		8
Mvmt Sat Flow, veh/h	1727		3282			1727		3282

Right-Turn Movement Data								
Assigned Mvmt	12		14			16		18
Mvmt Sat Flow, veh/h	1468		1468			1468		1468

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	5	0	7	0
Lane Assignment		(Prot)		(Prot)	(Prot)		(Prot)	
Lanes in Grp	0	1	0	1	1	0	1	0

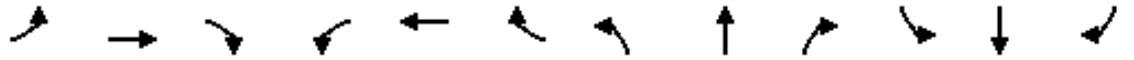
Grp Vol (v), veh/h	0	62	0	249	40	0	149	0
Grp Sat Flow (s), veh/h/ln	0	1645	0	1645	1645	0	1645	0
Q Serve Time (g_s), s	0.0	3.7	0.0	16.4	2.9	0.0	10.7	0.0
Cycle Q Clear Time (g_c), s	0.0	3.7	0.0	16.4	2.9	0.0	10.7	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	342	0	225	49	0	175	0
V/C Ratio (X)	0.00	0.18	0.00	1.11	0.81	0.00	0.85	0.00
Avail Cap (c_a), veh/h	0	342	0	225	55	0	260	0
Upstream Filter (I)	0.00	1.00	0.00	0.97	1.00	0.00	0.81	0.00
Uniform Delay (d1), s/veh	0.0	39.1	0.0	51.8	57.9	0.0	52.6	0.0
Incr Delay (d2), s/veh	0.0	0.3	0.0	91.1	54.3	0.0	12.9	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	39.4	0.0	142.9	112.1	0.0	65.6	0.0
1st-Term Q (Q1), veh/ln	0.0	1.7	0.0	7.4	1.3	0.0	4.8	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	5.7	0.7	0.0	0.6	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	1.7	0.0	13.1	2.1	0.0	5.5	0.0
%ile Storage Ratio (RQ%)	0.00	0.56	0.00	0.97	0.46	0.00	0.43	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	6.1	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	0	6	0	8
Lane Assignment	T		T			T		T
Lanes in Grp	1	0	2	0	0	1	0	2
Grp Vol (v), veh/h	80	0	1702	0	0	474	0	1091
Grp Sat Flow (s), veh/h/ln	1727	0	1641	0	0	1727	0	1641
Q Serve Time (g_s), s	5.5	0.0	55.0	0.0	0.0	29.0	0.0	30.6
Cycle Q Clear Time (g_c), s	5.5	0.0	55.0	0.0	0.0	29.0	0.0	30.6
Lane Grp Cap (c), veh/h	111	0	1504	0	0	417	0	1602
V/C Ratio (X)	0.72	0.00	1.13	0.00	0.00	1.14	0.00	0.68
Avail Cap (c_a), veh/h	331	0	1504	0	0	417	0	1602
Upstream Filter (I)	1.00	0.00	0.81	0.00	0.00	1.00	0.00	0.97
Uniform Delay (d1), s/veh	55.1	0.0	32.5	0.0	0.0	45.5	0.0	23.5
Incr Delay (d2), s/veh	8.6	0.0	66.6	0.0	0.0	86.5	0.0	2.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	63.7	0.0	99.1	0.0	0.0	132.0	0.0	25.8
1st-Term Q (Q1), veh/ln	2.6	0.0	24.9	0.0	0.0	13.8	0.0	13.8
2nd-Term Q (Q2), veh/ln	0.3	0.0	13.9	0.0	0.0	10.0	0.0	0.5

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	2.9	0.0	38.8	0.0	0.0	23.8	0.0	14.3
%ile Storage Ratio (RQ%)	0.03	0.00	0.10	0.00	0.00	0.07	0.00	0.03
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	49.5	0.0	0.0	14.1	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.3	0.0	0.0	0.3	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	0	16	0	18
Lane Assignment	R		R			R		R
Lanes in Grp	1	0	1	0	0	1	0	1
Grp Vol (v), veh/h	24	0	353	0	0	40	0	24
Grp Sat Flow (s), veh/h/ln	1468	0	1468	0	0	1468	0	1468
Q Serve Time (g_s), s	1.9	0.0	16.9	0.0	0.0	2.5	0.0	0.5
Cycle Q Clear Time (g_c), s	1.9	0.0	16.9	0.0	0.0	2.5	0.0	0.5
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	94	0	673	0	0	355	0	717
V/C Ratio (X)	0.26	0.00	0.52	0.00	0.00	0.11	0.00	0.03
Avail Cap (c_a), veh/h	281	0	673	0	0	355	0	717
Upstream Filter (I)	1.00	0.00	0.81	0.00	0.00	1.00	0.00	0.97
Uniform Delay (d1), s/veh	53.4	0.0	15.6	0.0	0.0	35.5	0.0	3.4
Incr Delay (d2), s/veh	1.4	0.0	2.4	0.0	0.0	0.1	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	54.8	0.0	18.0	0.0	0.0	35.6	0.0	3.5
1st-Term Q (Q1), veh/ln	0.8	0.0	6.8	0.0	0.0	1.0	0.0	0.2
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.8	0.0	7.2	0.0	0.0	1.0	0.0	0.2
%ile Storage Ratio (RQ%)	0.18	0.00	0.95	0.00	0.00	0.32	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

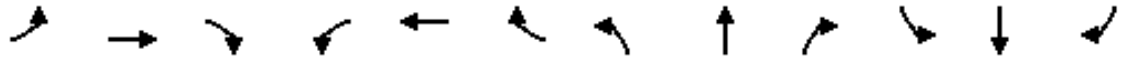
Intersection Summary	
HCM 2010 Ctrl Delay	76.0
HCM 2010 LOS	E



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	137	1566	325	229	1004	22	37	74	22	57	436	37
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	149	1702	353	249	1091	24	40	80	24	62	474	40
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	175	1504	673	225	1602	717	49	111	94	342	417	355
Arrive On Green	0.11	0.46	0.46	0.14	0.49	0.49	0.03	0.06	0.06	0.21	0.24	0.24
Sat Flow, veh/h	1645	3282	1468	1645	3282	1468	1645	1727	1468	1645	1727	1468
Grp Volume(v), veh/h	149	1702	353	249	1091	24	40	80	24	62	474	40
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1641	1468	1645	1727	1468	1645	1727	1468
Q Serve(g_s), s	10.7	55.0	16.9	16.4	30.6	0.5	2.9	5.5	1.9	3.7	29.0	2.5
Cycle Q Clear(g_c), s	10.7	55.0	16.9	16.4	30.6	0.5	2.9	5.5	1.9	3.7	29.0	2.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	175	1504	673	225	1602	717	49	111	94	342	417	355
V/C Ratio(X)	0.85	1.13	0.52	1.11	0.68	0.03	0.81	0.72	0.26	0.18	1.14	0.11
Avail Cap(c_a), veh/h	260	1504	673	225	1602	717	55	331	281	342	417	355
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.81	0.81	0.81	0.97	0.97	0.97	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	52.6	32.5	15.6	51.8	23.5	3.4	57.9	55.1	53.4	39.1	45.5	35.5
Incr Delay (d2), s/veh	12.9	66.6	2.4	91.1	2.3	0.1	54.3	8.6	1.4	0.3	86.5	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.5	38.8	7.2	13.1	14.3	0.2	2.1	2.9	0.8	1.7	23.8	1.0
LnGrp Delay(d),s/veh	65.6	99.1	18.0	142.9	25.8	3.5	112.1	63.7	54.8	39.4	132.0	35.6
LnGrp LOS	E	F	B	F	C	A	F	E	D	D	F	D
Approach Vol, veh/h		2204			1364			144			576	
Approach Delay, s/veh		83.8			46.8			75.7			115.3	
Approach LOS		F			D			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	28.9	11.7	20.4	59.0	7.6	33.0	16.8	62.6
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	10.0	23.0	16.0	55.0	4.0	29.0	19.0	52.0
Max Q Clear Time (g_c+I1), s	5.7	7.5	18.4	57.0	4.9	31.0	12.7	32.6
Green Ext Time (p_c), s	0.9	0.2	0.0	0.0	0.0	0.0	0.2	6.1

Intersection Summary	
HCM 2010 Ctrl Delay	76.0
HCM 2010 LOS	E



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	1363	120	700	690	12	55	5	262	3	11	0
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	1482	130	761	750	13	60	5	285	3	12	0
Adj No. of Lanes	1	2	1	1	2	0	2	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	1	1039	465	791	2742	48	115	114	97	5	58	49
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.00	0.32	0.32	0.48	0.83	0.83	0.04	0.07	0.07	0.00	0.03	0.00
Ln Grp Delay, s/veh	0.0	233.2	22.3	50.4	2.6	2.6	57.2	52.5	881.5	132.7	58.2	0.0
Ln Grp LOS		F	C	D	A	A	E	D	F	F	E	
Approach Vol, veh/h		1612			1524			350			15	
Approach Delay, s/veh		216.2			26.5			728.3			73.1	
Approach LOS		F			C			F			E	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	5	6	7	8
Case No	2.0	3.0	3.0	2.0	2.0	3.0	2.0	4.0
Phs Duration (G+Y+Rc), s	4.4	11.9	42.0	61.7	8.3	8.0	0.0	103.7
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	4.0	28.0	38.0	34.0	16.0	16.0	4.0	68.0
Max Allow Headway (MAH), s	4.1	4.3	4.0	4.1	4.1	4.3	0.0	4.1
Max Q Clear (g_c+I1), s	2.2	5.3	40.0	55.6	4.2	2.8	0.0	8.0
Green Ext Time (g_e), s	0.0	1.2	0.0	0.0	0.1	1.0	0.0	7.7
Prob of Phs Call (p_c)	0.10	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Prob of Max Out (p_x)	1.00	0.00	0.00	1.00	0.00	0.01	0.00	0.00

Left-Turn Movement Data								
Assigned Mvmt	1			3	5		7	
Mvmt Sat Flow, veh/h	1645			1645	3191		1645	

Through Movement Data								
Assigned Mvmt		2	4			6		8
Mvmt Sat Flow, veh/h		1727	3282			1727		3301

Right-Turn Movement Data								
Assigned Mvmt		12	14			16		18
Mvmt Sat Flow, veh/h		1468	1468			1468		57

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	5	0	7	0
Lane Assignment	(Prot)			(Prot)	(Prot)		(Prot)	
Lanes in Grp	1	0	0	1	2	0	1	0

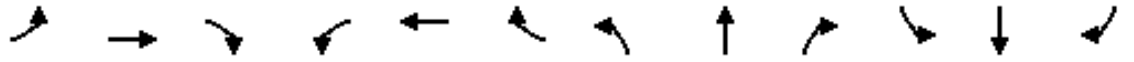
Grp Vol (v), veh/h	3	0	0	761	60	0	0	0
Grp Sat Flow (s), veh/h/ln	1645	0	0	1645	1596	0	1645	0
Q Serve Time (g_s), s	0.2	0.0	0.0	53.6	2.2	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.2	0.0	0.0	53.6	2.2	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	5	0	0	791	115	0	1	0
V/C Ratio (X)	0.57	0.00	0.00	0.96	0.52	0.00	0.00	0.00
Avail Cap (c_a), veh/h	55	0	0	791	426	0	55	0
Upstream Filter (I)	1.00	0.00	0.00	0.81	0.09	0.00	0.00	0.00
Uniform Delay (d1), s/veh	59.7	0.0	0.0	30.1	56.8	0.0	0.0	0.0
Incr Delay (d2), s/veh	73.0	0.0	0.0	20.3	0.3	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	132.7	0.0	0.0	50.4	57.2	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.1	0.0	0.0	24.3	1.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.0	4.5	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.2	0.0	0.0	28.8	1.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.06	0.00	0.00	7.84	0.16	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	0	6	0	8
Lane Assignment		T	T			T		T
Lanes in Grp	0	1	2	0	0	1	0	1
Grp Vol (v), veh/h	0	5	1482	0	0	12	0	373
Grp Sat Flow (s), veh/h/ln	0	1727	1641	0	0	1727	0	1641
Q Serve Time (g_s), s	0.0	0.3	38.0	0.0	0.0	0.8	0.0	6.0
Cycle Q Clear Time (g_c), s	0.0	0.3	38.0	0.0	0.0	0.8	0.0	6.0
Lane Grp Cap (c), veh/h	0	114	1039	0	0	58	0	1363
V/C Ratio (X)	0.00	0.04	1.43	0.00	0.00	0.21	0.00	0.27
Avail Cap (c_a), veh/h	0	403	1039	0	0	230	0	1363
Upstream Filter (I)	0.00	0.09	0.09	0.00	0.00	1.00	0.00	0.81
Uniform Delay (d1), s/veh	0.0	52.5	41.0	0.0	0.0	56.5	0.0	2.2
Incr Delay (d2), s/veh	0.0	0.0	192.2	0.0	0.0	1.8	0.0	0.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	52.5	233.2	0.0	0.0	58.2	0.0	2.6
1st-Term Q (Q1), veh/ln	0.0	0.2	17.2	0.0	0.0	0.4	0.0	2.7
2nd-Term Q (Q2), veh/ln	0.0	0.0	27.7	0.0	0.0	0.0	0.0	0.2

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.2	44.9	0.0	0.0	0.4	0.0	2.8
%ile Storage Ratio (RQ%)	0.00	0.00	0.09	0.00	0.00	0.03	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	110.7	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	14	0	0	16	0	18
Lane Assignment		R	R			R		T+R
Lanes in Grp	0	1	1	0	0	1	0	1
Grp Vol (v), veh/h	0	285	130	0	0	0	0	390
Grp Sat Flow (s), veh/h/ln	0	1468	1468	0	0	1468	0	1717
Q Serve Time (g_s), s	0.0	3.3	6.8	0.0	0.0	0.0	0.0	6.0
Cycle Q Clear Time (g_c), s	0.0	3.3	6.8	0.0	0.0	0.0	0.0	6.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.03
Lane Grp Cap (c), veh/h	0	97	465	0	0	49	0	1426
V/C Ratio (X)	0.00	2.93	0.28	0.00	0.00	0.00	0.00	0.27
Avail Cap (c_a), veh/h	0	343	465	0	0	196	0	1426
Upstream Filter (I)	0.00	0.09	0.09	0.00	0.00	0.00	0.00	0.81
Uniform Delay (d1), s/veh	0.0	9.6	22.2	0.0	0.0	0.0	0.0	2.2
Incr Delay (d2), s/veh	0.0	871.9	0.1	0.0	0.0	0.0	0.0	0.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	881.5	22.3	0.0	0.0	0.0	0.0	2.6
1st-Term Q (Q1), veh/ln	0.0	1.3	2.7	0.0	0.0	0.0	0.0	2.8
2nd-Term Q (Q2), veh/ln	0.0	23.5	0.0	0.0	0.0	0.0	0.0	0.2
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	24.9	2.8	0.0	0.0	0.0	0.0	3.0
%ile Storage Ratio (RQ%)	0.00	6.27	0.30	0.00	0.00	0.00	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	47.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0

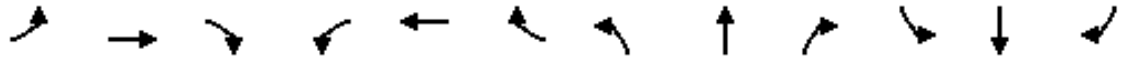
Intersection Summary	
HCM 2010 Ctrl Delay	184.2
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	1363	120	700	690	12	55	5	262	3	11	0
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	1482	130	761	750	13	60	5	285	3	12	0
Adj No. of Lanes	1	2	1	1	2	0	2	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	1	1039	465	791	2742	48	115	114	97	5	58	49
Arrive On Green	0.00	0.32	0.32	0.48	0.83	0.83	0.04	0.07	0.07	0.00	0.03	0.00
Sat Flow, veh/h	1645	3282	1468	1645	3301	57	3191	1727	1468	1645	1727	1468
Grp Volume(v), veh/h	0	1482	130	761	373	390	60	5	285	3	12	0
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1641	1717	1596	1727	1468	1645	1727	1468
Q Serve(g_s), s	0.0	38.0	6.8	53.6	6.0	6.0	2.2	0.3	3.3	0.2	0.8	0.0
Cycle Q Clear(g_c), s	0.0	38.0	6.8	53.6	6.0	6.0	2.2	0.3	3.3	0.2	0.8	0.0
Prop In Lane	1.00		1.00	1.00		0.03	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	1	1039	465	791	1363	1426	115	114	97	5	58	49
V/C Ratio(X)	0.00	1.43	0.28	0.96	0.27	0.27	0.52	0.04	2.93	0.57	0.21	0.00
Avail Cap(c_a), veh/h	55	1039	465	791	1363	1426	426	403	343	55	230	196
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.09	0.09	0.81	0.81	0.81	0.09	0.09	0.09	1.00	1.00	0.00
Uniform Delay (d), s/veh	0.0	41.0	22.2	30.1	2.2	2.2	56.8	52.5	9.6	59.7	56.5	0.0
Incr Delay (d2), s/veh	0.0	192.2	0.1	20.3	0.4	0.4	0.3	0.0	871.9	73.0	1.8	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	44.9	2.8	28.8	2.8	3.0	1.0	0.2	24.9	0.2	0.4	0.0
LnGrp Delay(d),s/veh	0.0	233.2	22.3	50.4	2.6	2.6	57.2	52.5	881.5	132.7	58.2	0.0
LnGrp LOS		F	C	D	A	A	E	D	F	F	E	
Approach Vol, veh/h		1612			1524			350			15	
Approach Delay, s/veh		216.2			26.5			728.3			73.1	
Approach LOS		F			C			F			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	4.4	11.9	61.7	42.0	8.3	8.0	0.0	103.7
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	4.0	28.0	34.0	38.0	16.0	16.0	4.0	68.0
Max Q Clear Time (g_c+I1), s	2.2	5.3	55.6	40.0	4.2	2.8	0.0	8.0
Green Ext Time (p_c), s	0.0	1.2	0.0	0.0	0.1	1.0	0.0	7.7

Intersection Summary	
HCM 2010 Ctrl Delay	184.2
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	17	1467	119	522	1203	13	103	2	324	100	71	21
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	18	1595	129	567	1308	14	112	2	352	109	77	23
Adj No. of Lanes	1	2	0	1	2	1	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	266	2172	174	171	2317	1036	268	2	315	71	276	82
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.71	0.71	0.71	0.71	0.71	0.71	0.22	0.22	0.22	0.22	0.22	0.22
Ln Grp Delay, s/veh	12.9	11.4	11.7	1100.3	7.7	4.5	40.2	0.0	125.9	354.3	0.0	33.8
Ln Grp LOS	B	B	B	F	A	A	D		F	F		C
Approach Vol, veh/h		1742			1889			466			209	
Approach Delay, s/veh		11.6			335.6			105.3			201.0	
Approach LOS		B			F			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Case No		6.0		6.0		6.0		5.0
Phs Duration (G+Y+Rc), s		26.0		76.0		26.0		76.0
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green (Gmax), s		22.0		72.0		22.0		72.0
Max Allow Headway (MAH), s		4.5		5.8		4.5		5.8
Max Q Clear (g_c+I1), s		24.0		34.8		24.0		74.0
Green Ext Time (g_e), s		0.0		35.6		0.0		0.0
Prob of Phs Call (p_c)		1.00		1.00		1.00		1.00
Prob of Max Out (p_x)		1.00		0.96		1.00		1.00

Left-Turn Movement Data								
Assigned Mvmt		5		7		1		3
Mvmt Sat Flow, veh/h		1196		383		949		260

Through Movement Data								
Assigned Mvmt		2		4		6		8
Mvmt Sat Flow, veh/h		8		3078		1278		3282

Right-Turn Movement Data								
Assigned Mvmt		12		14		16		18
Mvmt Sat Flow, veh/h		1461		247		382		1468

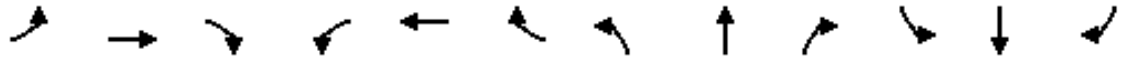
Left Lane Group Data								
Assigned Mvmt	0	5	0	7	0	1	0	3
Lane Assignment								
Lanes in Grp	0	1	0	1	0	1	0	1

Grp Vol (v), veh/h	0	112	0	18	0	109	0	567
Grp Sat Flow (s), veh/h/ln	0	1196	0	383	0	949	0	260
Q Serve Time (g_s), s	0.0	8.8	0.0	2.5	0.0	0.0	0.0	39.2
Cycle Q Clear Time (g_c), s	0.0	13.9	0.0	22.3	0.0	22.0	0.0	72.0
Perm LT Sat Flow (s_l), veh/h/ln	0	1196	0	383	0	949	0	260
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	22.0	0.0	72.0	0.0	22.0	0.0	72.0
Perm LT Serve Time (g_u), s	0.0	16.9	0.0	52.1	0.0	0.0	0.0	39.2
Perm LT Q Serve Time (g_ps), s	0.0	8.8	0.0	2.5	0.0	0.0	0.0	39.2
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	268	0	266	0	71	0	171
V/C Ratio (X)	0.00	0.42	0.00	0.07	0.00	1.54	0.00	3.32
Avail Cap (c_a), veh/h	0	268	0	266	0	71	0	171
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	39.2	0.0	12.8	0.0	51.0	0.0	39.5
Incr Delay (d2), s/veh	0.0	1.0	0.0	0.1	0.0	303.3	0.0	1060.8
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	40.2	0.0	12.9	0.0	354.3	0.0	1100.3
1st-Term Q (Q1), veh/ln	0.0	2.9	0.0	0.3	0.0	2.0	0.0	4.8
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.0	0.0	5.9	0.0	50.3
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	3.0	0.0	0.3	0.0	7.9	0.0	55.0
%ile Storage Ratio (RQ%)	0.00	0.70	0.00	0.02	0.00	0.38	0.00	7.66
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	9.6	0.0	99.1
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.8
Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	0	8
Lane Assignment				T				T
Lanes in Grp	0	0	0	1	0	0	0	2
Grp Vol (v), veh/h	0	0	0	844	0	0	0	1308
Grp Sat Flow (s), veh/h/ln	0	0	0	1641	0	0	0	1641
Q Serve Time (g_s), s	0.0	0.0	0.0	31.8	0.0	0.0	0.0	19.9
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	31.8	0.0	0.0	0.0	19.9
Lane Grp Cap (c), veh/h	0	0	0	1158	0	0	0	2317
V/C Ratio (X)	0.00	0.00	0.00	0.73	0.00	0.00	0.00	0.56
Avail Cap (c_a), veh/h	0	0	0	1158	0	0	0	2317
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	9.1	0.0	0.0	0.0	7.3
Incr Delay (d2), s/veh	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	11.4	0.0	0.0	0.0	7.7
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	14.1	0.0	0.0	0.0	8.9
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.1

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	14.8	0.0	0.0	0.0	9.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.16
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	0	18
Lane Assignment		T+R		T+R		T+R		R
Lanes in Grp	0	1	0	1	0	1	0	1
Grp Vol (v), veh/h	0	354	0	880	0	100	0	14
Grp Sat Flow (s), veh/h/ln	0	1469	0	1684	0	1660	0	1468
Q Serve Time (g_s), s	0.0	22.0	0.0	32.8	0.0	5.1	0.0	0.3
Cycle Q Clear Time (g_c), s	0.0	22.0	0.0	32.8	0.0	5.1	0.0	0.3
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.99	0.00	0.15	0.00	0.23	0.00	1.00
Lane Grp Cap (c), veh/h	0	317	0	1188	0	358	0	1036
V/C Ratio (X)	0.00	1.12	0.00	0.74	0.00	0.28	0.00	0.01
Avail Cap (c_a), veh/h	0	317	0	1188	0	358	0	1036
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	40.0	0.0	9.2	0.0	33.4	0.0	4.5
Incr Delay (d2), s/veh	0.0	85.9	0.0	2.5	0.0	0.4	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	125.9	0.0	11.7	0.0	33.8	0.0	4.5
1st-Term Q (Q1), veh/ln	0.0	8.9	0.0	14.9	0.0	2.4	0.0	0.1
2nd-Term Q (Q2), veh/ln	0.0	7.6	0.0	0.8	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	16.5	0.0	15.7	0.0	2.4	0.0	0.1
%ile Storage Ratio (RQ%)	0.00	0.02	0.00	0.08	0.00	0.12	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	9.3	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0

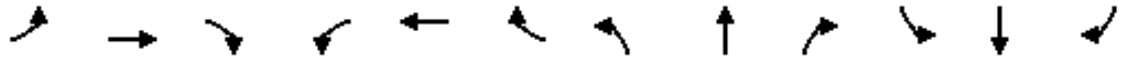
Intersection Summary	
HCM 2010 Ctrl Delay	173.1
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	17	1467	119	522	1203	13	103	2	324	100	71	21
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	18	1595	129	567	1308	14	112	2	352	109	77	23
Adj No. of Lanes	1	2	0	1	2	1	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	266	2172	174	171	2317	1036	268	2	315	71	276	82
Arrive On Green	0.71	0.71	0.71	0.71	0.71	0.71	0.22	0.22	0.22	0.22	0.22	0.22
Sat Flow, veh/h	383	3078	247	260	3282	1468	1196	8	1461	949	1278	382
Grp Volume(v), veh/h	18	844	880	567	1308	14	112	0	354	109	0	100
Grp Sat Flow(s),veh/h/ln	383	1641	1684	260	1641	1468	1196	0	1469	949	0	1660
Q Serve(g_s), s	2.5	31.8	32.8	39.2	19.9	0.3	8.8	0.0	22.0	0.0	0.0	5.1
Cycle Q Clear(g_c), s	22.3	31.8	32.8	72.0	19.9	0.3	13.9	0.0	22.0	22.0	0.0	5.1
Prop In Lane	1.00		0.15	1.00		1.00	1.00		0.99	1.00		0.23
Lane Grp Cap(c), veh/h	266	1158	1188	171	2317	1036	268	0	317	71	0	358
V/C Ratio(X)	0.07	0.73	0.74	3.32	0.56	0.01	0.42	0.00	1.12	1.54	0.00	0.28
Avail Cap(c_a), veh/h	266	1158	1188	171	2317	1036	268	0	317	71	0	358
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	12.8	9.1	9.2	39.5	7.3	4.5	39.2	0.0	40.0	51.0	0.0	33.4
Incr Delay (d2), s/veh	0.1	2.4	2.5	1060.8	0.3	0.0	1.0	0.0	85.9	303.3	0.0	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	14.8	15.7	55.0	9.0	0.1	3.0	0.0	16.5	7.9	0.0	2.4
LnGrp Delay(d),s/veh	12.9	11.4	11.7	1100.3	7.7	4.5	40.2	0.0	125.9	354.3	0.0	33.8
LnGrp LOS	B	B	B	F	A	A	D		F	F		C
Approach Vol, veh/h		1742			1889			466			209	
Approach Delay, s/veh		11.6			335.6			105.3			201.0	
Approach LOS		B			F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Phs Duration (G+Y+Rc), s		26.0		76.0		26.0		76.0
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green Setting (Gmax), s		22.0		72.0		22.0		72.0
Max Q Clear Time (g_c+I1), s		24.0		34.8		24.0		74.0
Green Ext Time (p_c), s		0.0		35.6		0.0		0.0

Intersection Summary		
HCM 2010 Ctrl Delay		173.1
HCM 2010 LOS		F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	372	1091	180	509	981	365	350	1088	346	249	1085	152
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1545	1545	1545	1545	1545	1545	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	404	1186	196	553	1066	397	380	1183	376	271	1179	165
Adj No. of Lanes	1	2	1	1	2	1	1	2	0	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	23	23	23	23	23	23	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	233	832	372	306	978	438	219	780	243	186	793	355
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.16	0.28	0.28	0.21	0.33	0.33	0.13	0.32	0.32	0.06	0.24	0.24
Ln Grp Delay, s/veh	398.3	241.8	41.5	410.6	82.3	28.6	400.0	276.5	296.1	264.3	265.1	39.0
Ln Grp LOS	F	F	D	F	F	C	F	F	F	F	F	D
Approach Vol, veh/h		1786			2016			1939			1615	
Approach Delay, s/veh		255.2			161.8			308.6			241.8	
Approach LOS		F			F			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	5	6	7	8
Case No	4.0	2.0	2.0	3.0	2.0	3.0	2.0	3.0
Phs Duration (G+Y+Rc), s	42.0	11.0	29.0	38.0	20.0	33.0	23.0	44.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	38.0	7.0	25.0	34.0	16.0	29.0	19.0	40.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	40.0	9.0	27.0	36.0	18.0	31.0	21.0	42.0
Green Ext Time (g_e), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prob of Max Out (p_x)	1.00	1.00	1.00	0.00	1.00	1.00	1.00	0.00

Left-Turn Movement Data								
Assigned Mvmt		1	3		5		7	
Mvmt Sat Flow, veh/h		3191	1471		1645		1471	

Through Movement Data								
Assigned Mvmt	2			4		6		8
Mvmt Sat Flow, veh/h	2464			2935		3282		2935

Right-Turn Movement Data								
Assigned Mvmt	12			14		16		18
Mvmt Sat Flow, veh/h	768			1313		1468		1313

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	5	0	7	0
Lane Assignment		(Prot)	(Prot)		(Prot)		(Prot)	
Lanes in Grp	0	2	1	0	1	0	1	0

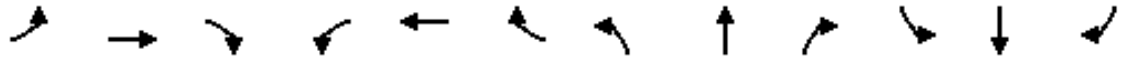
Grp Vol (v), veh/h	0	271	553	0	380	0	404	0
Grp Sat Flow (s), veh/h/ln	0	1596	1471	0	1645	0	1471	0
Q Serve Time (g_s), s	0.0	7.0	25.0	0.0	16.0	0.0	19.0	0.0
Cycle Q Clear Time (g_c), s	0.0	7.0	25.0	0.0	16.0	0.0	19.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	186	306	0	219	0	233	0
V/C Ratio (X)	0.00	1.46	1.80	0.00	1.73	0.00	1.73	0.00
Avail Cap (c_a), veh/h	0	186	306	0	219	0	233	0
Upstream Filter (I)	0.00	0.09	0.09	0.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	56.5	47.5	0.0	52.0	0.0	50.5	0.0
Incr Delay (d2), s/veh	0.0	207.8	363.1	0.0	348.0	0.0	347.8	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	264.3	410.6	0.0	400.0	0.0	398.3	0.0
1st-Term Q (Q1), veh/ln	0.0	3.1	10.1	0.0	7.3	0.0	7.7	0.0
2nd-Term Q (Q2), veh/ln	0.0	5.4	30.9	0.0	21.2	0.0	22.5	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	8.5	41.0	0.0	28.5	0.0	30.2	0.0
%ile Storage Ratio (RQ%)	0.00	1.15	2.99	0.00	2.86	0.00	2.38	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	21.2	61.6	0.0	40.2	0.0	42.8	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.4	0.5	0.0	0.4	0.0	0.4	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	0	6	0	8
Lane Assignment	T			T		T		T
Lanes in Grp	1	0	0	2	0	2	0	2
Grp Vol (v), veh/h	780	0	0	1186	0	1179	0	1066
Grp Sat Flow (s), veh/h/ln	1641	0	0	1467	0	1641	0	1467
Q Serve Time (g_s), s	38.0	0.0	0.0	34.0	0.0	29.0	0.0	40.0
Cycle Q Clear Time (g_c), s	38.0	0.0	0.0	34.0	0.0	29.0	0.0	40.0
Lane Grp Cap (c), veh/h	520	0	0	832	0	793	0	978
V/C Ratio (X)	1.50	0.00	0.00	1.43	0.00	1.49	0.00	1.09
Avail Cap (c_a), veh/h	520	0	0	832	0	793	0	978
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	0.09	0.00	0.09
Uniform Delay (d1), s/veh	41.0	0.0	0.0	43.0	0.0	45.5	0.0	40.0
Incr Delay (d2), s/veh	235.5	0.0	0.0	198.8	0.0	219.6	0.0	42.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	276.5	0.0	0.0	241.8	0.0	265.1	0.0	82.3
1st-Term Q (Q1), veh/ln	17.2	0.0	0.0	13.7	0.0	13.1	0.0	16.2
2nd-Term Q (Q2), veh/ln	34.0	0.0	0.0	23.0	0.0	24.2	0.0	5.7

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	51.2	0.0	0.0	36.7	0.0	37.3	0.0	21.9
%ile Storage Ratio (RQ%)	0.40	0.00	0.00	0.03	0.00	0.05	0.00	0.13
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	65.1	0.0	0.0	88.6	0.0	96.5	0.0	21.9
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.4	0.0	0.0	0.4	0.0	0.4	0.0	0.3

Right Lane Group Data								
Assigned Mvmt	12	0	0	14	0	16	0	18
Lane Assignment	T+R			R		R		R
Lanes in Grp	1	0	0	1	0	1	0	1
Grp Vol (v), veh/h	779	0	0	196	0	165	0	397
Grp Sat Flow (s), veh/h/ln	1592	0	0	1313	0	1468	0	1313
Q Serve Time (g_s), s	38.0	0.0	0.0	15.1	0.0	11.5	0.0	28.2
Cycle Q Clear Time (g_c), s	38.0	0.0	0.0	15.1	0.0	11.5	0.0	28.2
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.48	0.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	504	0	0	372	0	355	0	438
V/C Ratio (X)	1.55	0.00	0.00	0.53	0.00	0.47	0.00	0.91
Avail Cap (c_a), veh/h	504	0	0	372	0	355	0	438
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	0.09	0.00	0.09
Uniform Delay (d1), s/veh	41.0	0.0	0.0	36.2	0.0	38.9	0.0	25.2
Incr Delay (d2), s/veh	255.1	0.0	0.0	5.3	0.0	0.1	0.0	3.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	296.1	0.0	0.0	41.5	0.0	39.0	0.0	28.6
1st-Term Q (Q1), veh/ln	16.7	0.0	0.0	5.4	0.0	4.7	0.0	10.1
2nd-Term Q (Q2), veh/ln	35.7	0.0	0.0	0.5	0.0	0.0	0.0	0.4
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	52.4	0.0	0.0	6.0	0.0	4.7	0.0	10.6
%ile Storage Ratio (RQ%)	0.41	0.00	0.00	1.97	0.00	0.62	0.00	2.10
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	68.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0

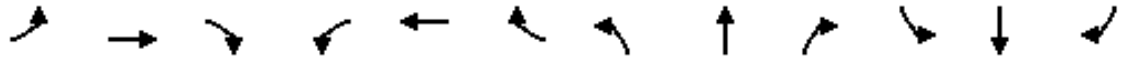
Intersection Summary	
HCM 2010 Ctrl Delay	240.7
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	372	1091	180	509	981	365	350	1088	346	249	1085	152
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1545	1545	1545	1545	1545	1545	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	404	1186	196	553	1066	397	380	1183	376	271	1179	165
Adj No. of Lanes	1	2	1	1	2	1	1	2	0	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	23	23	23	23	23	23	10	10	10	10	10	10
Cap, veh/h	233	832	372	306	978	438	219	780	243	186	793	355
Arrive On Green	0.16	0.28	0.28	0.21	0.33	0.33	0.13	0.32	0.32	0.06	0.24	0.24
Sat Flow, veh/h	1471	2935	1313	1471	2935	1313	1645	2464	768	3191	3282	1468
Grp Volume(v), veh/h	404	1186	196	553	1066	397	380	780	779	271	1179	165
Grp Sat Flow(s),veh/h/ln	1471	1467	1313	1471	1467	1313	1645	1641	1592	1596	1641	1468
Q Serve(g_s), s	19.0	34.0	15.1	25.0	40.0	28.2	16.0	38.0	38.0	7.0	29.0	11.5
Cycle Q Clear(g_c), s	19.0	34.0	15.1	25.0	40.0	28.2	16.0	38.0	38.0	7.0	29.0	11.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.48	1.00		1.00
Lane Grp Cap(c), veh/h	233	832	372	306	978	438	219	520	504	186	793	355
V/C Ratio(X)	1.73	1.43	0.53	1.80	1.09	0.91	1.73	1.50	1.55	1.46	1.49	0.47
Avail Cap(c_a), veh/h	233	832	372	306	978	438	219	520	504	186	793	355
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.09	0.09	0.09	1.00	1.00	1.00	0.09	0.09	0.09
Uniform Delay (d), s/veh	50.5	43.0	36.2	47.5	40.0	25.2	52.0	41.0	41.0	56.5	45.5	38.9
Incr Delay (d2), s/veh	347.8	198.8	5.3	363.1	42.3	3.3	348.0	235.5	255.1	207.8	219.6	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	30.2	36.7	6.0	41.0	21.9	10.6	28.5	51.2	52.4	8.5	37.3	4.7
LnGrp Delay(d),s/veh	398.3	241.8	41.5	410.6	82.3	28.6	400.0	276.5	296.1	264.3	265.1	39.0
LnGrp LOS	F	F	D	F	F	C	F	F	F	F	F	D
Approach Vol, veh/h		1786			2016			1939			1615	
Approach Delay, s/veh		255.2			161.8			308.6			241.8	
Approach LOS		F			F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.0	42.0	29.0	38.0	20.0	33.0	23.0	44.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	7.0	38.0	25.0	34.0	16.0	29.0	19.0	40.0
Max Q Clear Time (g_c+I1), s	9.0	40.0	27.0	36.0	18.0	31.0	21.0	42.0
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	240.7
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	296	3539	315	418	1381	220	796	1391	224	314	3001	261
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1545	1545	1900	1545	1545	1545	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	322	3847	342	454	1501	239	865	1512	243	341	3262	284
Adj No. of Lanes	2	2	0	2	2	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	23	23	23	23	23	23	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	143	1092	96	190	1223	547	319	1620	505	180	1415	440
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.05	0.40	0.40	0.07	0.42	0.42	0.10	0.34	0.34	0.06	0.30	0.30
Ln Grp Delay, s/veh	624.4	1150.9	1194.8	695.6	144.7	25.5	824.5	39.4	31.3	461.9	629.9	37.1
Ln Grp LOS	F	F	F	F	F	C	F	D	C	F	F	D
Approach Vol, veh/h		4511			2194			2620			3887	
Approach Delay, s/veh		1134.2			245.7			297.8			571.8	
Approach LOS		F			F			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	6	5	8	7
Case No	3.0	2.0	4.0	2.0	3.0	2.0	3.0	2.0
Phs Duration (G+Y+Rc), s	45.2	10.8	52.0	12.0	40.0	16.0	54.0	10.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	42.0	6.0	48.0	8.0	36.0	12.0	50.0	6.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.0	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	39.2	8.8	50.0	10.0	38.0	14.0	52.0	8.0
Green Ext Time (g_e), s	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prob of Max Out (p_x)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt		1		3		5		7
Mvmt Sat Flow, veh/h		3191		2854		3191		2854

Through Movement Data								
Assigned Mvmt	2		4		6		8	
Mvmt Sat Flow, veh/h	4715		2731		4715		2935	

Right-Turn Movement Data								
Assigned Mvmt	12		14		16		18	
Mvmt Sat Flow, veh/h	1468		239		1468		1313	

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	0	5	0	7
Lane Assignment		(Prot)		(Prot)		(Prot)		(Prot)
Lanes in Grp	0	2	0	2	0	2	0	2

Grp Vol (v), veh/h	0	341	0	454	0	865	0	322
Grp Sat Flow (s), veh/h/ln	0	1596	0	1427	0	1596	0	1427
Q Serve Time (g_s), s	0.0	6.8	0.0	8.0	0.0	12.0	0.0	6.0
Cycle Q Clear Time (g_c), s	0.0	6.8	0.0	8.0	0.0	12.0	0.0	6.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	180	0	190	0	319	0	143
V/C Ratio (X)	0.00	1.90	0.00	2.39	0.00	2.71	0.00	2.26
Avail Cap (c_a), veh/h	0	180	0	190	0	319	0	143
Upstream Filter (I)	0.00	0.09	0.00	1.00	0.00	0.09	0.00	0.09
Uniform Delay (d1), s/veh	0.0	56.6	0.0	56.0	0.0	54.0	0.0	57.0
Incr Delay (d2), s/veh	0.0	405.3	0.0	639.6	0.0	770.5	0.0	567.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	461.9	0.0	695.6	0.0	824.5	0.0	624.4
1st-Term Q (Q1), veh/ln	0.0	3.0	0.0	3.1	0.0	5.3	0.0	2.4
2nd-Term Q (Q2), veh/ln	0.0	10.1	0.0	16.9	0.0	34.2	0.0	11.2
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	13.1	0.0	20.0	0.0	39.4	0.0	13.6
%ile Storage Ratio (RQ%)	0.00	1.58	0.00	1.23	0.00	5.49	0.00	0.79
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	40.3	0.0	65.9	0.0	136.5	0.0	44.8
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.5	0.0	0.6	0.0	0.7	0.0	0.6

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	6	0	8	0
Lane Assignment	T		T		T		T	
Lanes in Grp	3	0	1	0	3	0	2	0
Grp Vol (v), veh/h	1512	0	2041	0	3262	0	1501	0
Grp Sat Flow (s), veh/h/ln	1572	0	1467	0	1572	0	1467	0
Q Serve Time (g_s), s	37.2	0.0	48.0	0.0	36.0	0.0	50.0	0.0
Cycle Q Clear Time (g_c), s	37.2	0.0	48.0	0.0	36.0	0.0	50.0	0.0
Lane Grp Cap (c), veh/h	1620	0	587	0	1415	0	1223	0
V/C Ratio (X)	0.93	0.00	3.48	0.00	2.31	0.00	1.23	0.00
Avail Cap (c_a), veh/h	1650	0	587	0	1415	0	1223	0
Upstream Filter (I)	0.09	0.00	0.09	0.00	0.09	0.00	1.00	0.00
Uniform Delay (d1), s/veh	38.0	0.0	36.0	0.0	42.0	0.0	35.0	0.0
Incr Delay (d2), s/veh	1.3	0.0	1114.9	0.0	587.9	0.0	109.7	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	39.4	0.0	1150.9	0.0	629.9	0.0	144.7	0.0
1st-Term Q (Q1), veh/ln	16.1	0.0	19.4	0.0	15.6	0.0	20.2	0.0
2nd-Term Q (Q2), veh/ln	0.2	0.0	181.8	0.0	77.0	0.0	18.6	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	16.3	0.0	201.2	0.0	92.6	0.0	38.9	0.0
%ile Storage Ratio (RQ%)	0.04	0.00	1.15	0.00	0.12	0.00	0.21	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	363.5	0.0	461.8	0.0	69.5	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.9	0.0	0.6	0.0	0.3	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	16	0	18	0
Lane Assignment	R		T+R		R		R	
Lanes in Grp	1	0	1	0	1	0	1	0
Grp Vol (v), veh/h	243	0	2148	0	284	0	239	0
Grp Sat Flow (s), veh/h/ln	1468	0	1503	0	1468	0	1313	0
Q Serve Time (g_s), s	15.6	0.0	48.0	0.0	20.1	0.0	15.6	0.0
Cycle Q Clear Time (g_c), s	15.6	0.0	48.0	0.0	20.1	0.0	15.6	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.16	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	505	0	601	0	440	0	547	0
V/C Ratio (X)	0.48	0.00	3.57	0.00	0.64	0.00	0.44	0.00
Avail Cap (c_a), veh/h	514	0	601	0	440	0	547	0
Upstream Filter (I)	0.09	0.00	0.09	0.00	0.09	0.00	1.00	0.00
Uniform Delay (d1), s/veh	31.0	0.0	36.0	0.0	36.5	0.0	25.0	0.0
Incr Delay (d2), s/veh	0.3	0.0	1158.8	0.0	0.7	0.0	0.6	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	31.3	0.0	1194.8	0.0	37.1	0.0	25.5	0.0
1st-Term Q (Q1), veh/ln	6.3	0.0	19.9	0.0	8.1	0.0	5.6	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	193.5	0.0	0.1	0.0	0.1	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	6.4	0.0	213.3	0.0	8.2	0.0	5.7	0.0
%ile Storage Ratio (RQ%)	0.84	0.00	1.22	0.00	1.17	0.00	1.58	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	386.8	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	655.4
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	296	3539	315	418	1381	220	796	1391	224	314	3001	261
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1545	1545	1900	1545	1545	1545	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	322	3847	342	454	1501	239	865	1512	243	341	3262	284
Adj No. of Lanes	2	2	0	2	2	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	23	23	23	23	23	23	10	10	10	10	10	10
Cap, veh/h	143	1092	96	190	1223	547	319	1620	505	180	1415	440
Arrive On Green	0.05	0.40	0.40	0.07	0.42	0.42	0.10	0.34	0.34	0.06	0.30	0.30
Sat Flow, veh/h	2854	2731	239	2854	2935	1313	3191	4715	1468	3191	4715	1468
Grp Volume(v), veh/h	322	2041	2148	454	1501	239	865	1512	243	341	3262	284
Grp Sat Flow(s),veh/h/ln	1427	1467	1503	1427	1467	1313	1596	1572	1468	1596	1572	1468
Q Serve(g_s), s	6.0	48.0	48.0	8.0	50.0	15.6	12.0	37.2	15.6	6.8	36.0	20.1
Cycle Q Clear(g_c), s	6.0	48.0	48.0	8.0	50.0	15.6	12.0	37.2	15.6	6.8	36.0	20.1
Prop In Lane	1.00		0.16	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	143	587	601	190	1223	547	319	1620	505	180	1415	440
V/C Ratio(X)	2.26	3.48	3.57	2.39	1.23	0.44	2.71	0.93	0.48	1.90	2.31	0.64
Avail Cap(c_a), veh/h	143	587	601	190	1223	547	319	1650	514	180	1415	440
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.09	0.09	0.09	1.00	1.00	1.00	0.09	0.09	0.09	0.09	0.09	0.09
Uniform Delay (d), s/veh	57.0	36.0	36.0	56.0	35.0	25.0	54.0	38.0	31.0	56.6	42.0	36.5
Incr Delay (d2), s/veh	567.4	1114.9	1158.8	639.6	109.7	0.6	770.5	1.3	0.3	405.3	587.9	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	13.6	201.2	213.3	20.0	38.9	5.7	39.4	16.3	6.4	13.1	92.6	8.2
LnGrp Delay(d),s/veh	624.4	1150.9	1194.8	695.6	144.7	25.5	824.5	39.4	31.3	461.9	629.9	37.1
LnGrp LOS	F	F	F	F	F	C	F	D	C	F	F	D
Approach Vol, veh/h		4511			2194			2620			3887	
Approach Delay, s/veh		1134.2			245.7			297.8			571.8	
Approach LOS		F			F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.8	45.2	12.0	52.0	16.0	40.0	10.0	54.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	6.0	42.0	8.0	48.0	12.0	36.0	6.0	50.0
Max Q Clear Time (g_c+I1), s	8.8	39.2	10.0	50.0	14.0	38.0	8.0	52.0
Green Ext Time (p_c), s	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary		
HCM 2010 Ctrl Delay	655.4	
HCM 2010 LOS	F	

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	127	863	299	694	920	38	581	223	373	162	83	221
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	138	938	325	754	1000	41	632	242	405	176	90	240
Adj No. of Lanes	2	2	1	2	2	1	2	2	2	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	190	957	428	771	1555	696	638	604	475	477	438	196
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.06	0.29	0.29	0.24	0.47	0.47	0.20	0.18	0.18	0.15	0.13	0.13
Ln Grp Delay, s/veh	61.4	66.3	22.7	50.8	24.1	6.0	79.2	43.5	55.9	46.4	46.6	190.4
Ln Grp LOS	E	E	C	D	C	A	E	D	E	D	D	F
Approach Vol, veh/h		1401			1795			1279			506	
Approach Delay, s/veh		55.7			34.9			65.1			114.7	
Approach LOS		E			C			E			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	5	6	7	8
Case No	3.0	2.0	3.0	2.0	2.0	3.0	2.0	3.0
Phs Duration (G+Y+Rc), s	26.1	21.9	39.0	33.0	28.0	20.0	11.1	60.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	28.0	12.0	35.0	29.0	24.0	16.0	10.0	54.0
Max Allow Headway (MAH), s	4.2	4.2	4.1	4.1	4.1	4.2	4.1	4.1
Max Q Clear (g_c+I1), s	20.2	8.0	36.0	30.2	25.7	18.0	7.1	29.7
Green Ext Time (g_e), s	1.9	0.8	0.0	0.0	0.0	0.0	0.1	9.4
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	1.00	0.99	1.00
Prob of Max Out (p_x)	0.31	1.00	1.00	1.00	1.00	1.00	1.00	0.00

Left-Turn Movement Data								
Assigned Mvmt		1		3	5		7	
Mvmt Sat Flow, veh/h		3191		3191	3191		3191	

Through Movement Data								
Assigned Mvmt	2		4			6		8
Mvmt Sat Flow, veh/h	3282		3282			3282		3282

Right-Turn Movement Data								
Assigned Mvmt	12		14			16		18
Mvmt Sat Flow, veh/h	2584		1468			1468		1468

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	5	0	7	0
Lane Assignment		(Prot)		(Prot)	(Prot)		(Prot)	
Lanes in Grp	0	2	0	2	2	0	2	0

Grp Vol (v), veh/h	0	176	0	754	632	0	138	0
Grp Sat Flow (s), veh/h/ln	0	1596	0	1596	1596	0	1596	0
Q Serve Time (g_s), s	0.0	6.0	0.0	28.2	23.7	0.0	5.1	0.0
Cycle Q Clear Time (g_c), s	0.0	6.0	0.0	28.2	23.7	0.0	5.1	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	477	0	771	638	0	190	0
V/C Ratio (X)	0.00	0.37	0.00	0.98	0.99	0.00	0.73	0.00
Avail Cap (c_a), veh/h	0	477	0	771	638	0	266	0
Upstream Filter (I)	0.00	1.00	0.00	0.09	0.90	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	45.9	0.0	45.2	47.9	0.0	55.5	0.0
Incr Delay (d2), s/veh	0.0	0.5	0.0	5.7	31.3	0.0	5.9	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	46.4	0.0	50.8	79.2	0.0	61.4	0.0
1st-Term Q (Q1), veh/ln	0.0	2.6	0.0	12.4	10.4	0.0	2.2	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.6	2.8	0.0	0.2	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	2.7	0.0	13.0	13.2	0.0	2.4	0.0
%ile Storage Ratio (RQ%)	0.00	0.46	0.00	1.81	1.87	0.00	0.30	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	0	6	0	8
Lane Assignment	T		T			T		T
Lanes in Grp	2	0	2	0	0	2	0	2
Grp Vol (v), veh/h	242	0	938	0	0	90	0	1000
Grp Sat Flow (s), veh/h/ln	1641	0	1641	0	0	1641	0	1641
Q Serve Time (g_s), s	7.8	0.0	34.0	0.0	0.0	2.9	0.0	27.7
Cycle Q Clear Time (g_c), s	7.8	0.0	34.0	0.0	0.0	2.9	0.0	27.7
Lane Grp Cap (c), veh/h	604	0	957	0	0	438	0	1555
V/C Ratio (X)	0.40	0.00	0.98	0.00	0.00	0.21	0.00	0.64
Avail Cap (c_a), veh/h	766	0	957	0	0	438	0	1555
Upstream Filter (I)	0.90	0.00	1.00	0.00	0.00	1.00	0.00	0.09
Uniform Delay (d1), s/veh	43.1	0.0	42.2	0.0	0.0	46.3	0.0	23.9
Incr Delay (d2), s/veh	0.4	0.0	24.2	0.0	0.0	0.2	0.0	0.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	43.5	0.0	66.3	0.0	0.0	46.6	0.0	24.1
1st-Term Q (Q1), veh/ln	3.5	0.0	15.4	0.0	0.0	1.3	0.0	12.5
2nd-Term Q (Q2), veh/ln	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	3.6	0.0	18.6	0.0	0.0	1.3	0.0	12.5
%ile Storage Ratio (RQ%)	0.01	0.00	0.16	0.00	0.00	0.08	0.00	0.09
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

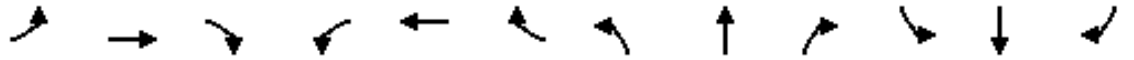
Right Lane Group Data								
Assigned Mvmt	12	0	14	0	0	16	0	18
Lane Assignment	R		R			R		R
Lanes in Grp	2	0	1	0	0	1	0	1
Grp Vol (v), veh/h	405	0	325	0	0	240	0	41
Grp Sat Flow (s), veh/h/ln	1292	0	1468	0	0	1468	0	1468
Q Serve Time (g_s), s	18.2	0.0	15.1	0.0	0.0	16.0	0.0	1.1
Cycle Q Clear Time (g_c), s	18.2	0.0	15.1	0.0	0.0	16.0	0.0	1.1
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	475	0	428	0	0	196	0	696
V/C Ratio (X)	0.85	0.00	0.76	0.00	0.00	1.23	0.00	0.06
Avail Cap (c_a), veh/h	603	0	428	0	0	196	0	696
Upstream Filter (I)	0.90	0.00	1.00	0.00	0.00	1.00	0.00	0.09
Uniform Delay (d1), s/veh	47.4	0.0	15.0	0.0	0.0	52.0	0.0	5.9
Incr Delay (d2), s/veh	8.5	0.0	7.7	0.0	0.0	138.4	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	55.9	0.0	22.7	0.0	0.0	190.4	0.0	6.0
1st-Term Q (Q1), veh/ln	6.5	0.0	6.0	0.0	0.0	6.5	0.0	0.4
2nd-Term Q (Q2), veh/ln	0.6	0.0	0.9	0.0	0.0	7.5	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	7.1	0.0	7.0	0.0	0.0	14.0	0.0	0.4
%ile Storage Ratio (RQ%)	0.53	0.00	1.15	0.00	0.00	3.56	0.00	0.06
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	11.1	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	56.6
HCM 2010 LOS	E

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	127	863	299	694	920	38	581	223	373	162	83	221
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	138	938	325	754	1000	41	632	242	405	176	90	240
Adj No. of Lanes	2	2	1	2	2	1	2	2	2	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	190	957	428	771	1555	696	638	604	475	477	438	196
Arrive On Green	0.06	0.29	0.29	0.24	0.47	0.47	0.20	0.18	0.18	0.15	0.13	0.13
Sat Flow, veh/h	3191	3282	1468	3191	3282	1468	3191	3282	2584	3191	3282	1468
Grp Volume(v), veh/h	138	938	325	754	1000	41	632	242	405	176	90	240
Grp Sat Flow(s),veh/h/ln	1596	1641	1468	1596	1641	1468	1596	1641	1292	1596	1641	1468
Q Serve(g_s), s	5.1	34.0	15.1	28.2	27.7	1.1	23.7	7.8	18.2	6.0	2.9	16.0
Cycle Q Clear(g_c), s	5.1	34.0	15.1	28.2	27.7	1.1	23.7	7.8	18.2	6.0	2.9	16.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	190	957	428	771	1555	696	638	604	475	477	438	196
V/C Ratio(X)	0.73	0.98	0.76	0.98	0.64	0.06	0.99	0.40	0.85	0.37	0.21	1.23
Avail Cap(c_a), veh/h	266	957	428	771	1555	696	638	766	603	477	438	196
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.09	0.09	0.09	0.90	0.90	0.90	1.00	1.00	1.00
Uniform Delay (d), s/veh	55.5	42.2	15.0	45.2	23.9	5.9	47.9	43.1	47.4	45.9	46.3	52.0
Incr Delay (d2), s/veh	5.9	24.2	7.7	5.7	0.2	0.0	31.3	0.4	8.5	0.5	0.2	138.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.4	18.6	7.0	13.0	12.5	0.4	13.2	3.6	7.1	2.7	1.3	14.0
LnGrp Delay(d),s/veh	61.4	66.3	22.7	50.8	24.1	6.0	79.2	43.5	55.9	46.4	46.6	190.4
LnGrp LOS	E	E	C	D	C	A	E	D	E	D	D	F
Approach Vol, veh/h		1401			1795			1279			506	
Approach Delay, s/veh		55.7			34.9			65.1			114.7	
Approach LOS		E			C			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	21.9	26.1	33.0	39.0	28.0	20.0	11.1	60.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	17.0	28.0	29.0	35.0	24.0	16.0	10.0	54.0
Max Q Clear Time (g_c+I1), s	8.0	20.2	30.2	36.0	25.7	18.0	7.1	29.7
Green Ext Time (p_c), s	0.8	1.9	0.0	0.0	0.0	0.0	0.1	9.4

Intersection Summary	
HCM 2010 Ctrl Delay	56.6
HCM 2010 LOS	E



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	916	830	752	592	2246	402	518	2272	306	1093	1105	1117
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	996	902	817	643	2441	437	563	2470	333	1188	1201	1214
Adj No. of Lanes	2	3	1	2	3	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	426	1359	423	383	1297	404	266	1375	428	532	1768	551
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.13	0.29	0.29	0.12	0.28	0.28	0.08	0.29	0.29	0.17	0.38	0.38
Ln Grp Delay, s/veh	659.7	38.2	450.6	368.8	443.5	112.2	570.2	403.6	34.1	611.2	33.6	585.7
Ln Grp LOS	F	D	F	F	F	F	F	F	C	F	C	F
Approach Vol, veh/h		2715			3521			3366			3603	
Approach Delay, s/veh		390.3			388.8			394.9			410.0	
Approach LOS		F			F			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	5	6	7	8
Case No	2.0	3.0	3.0	2.0	2.0	3.0	2.0	3.0
Phs Duration (G+Y+Rc), s	24.0	39.0	38.6	18.4	14.0	49.0	20.0	37.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	20.0	35.0	38.0	11.0	10.0	45.0	16.0	33.0
Max Allow Headway (MAH), s	4.1	4.1	4.2	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	22.0	37.0	29.3	16.4	12.0	47.0	18.0	35.0
Green Ext Time (g_e), s	0.0	0.0	5.3	0.0	0.0	0.0	0.0	0.0
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prob of Max Out (p_x)	1.00	1.00	0.70	1.00	1.00	1.00	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt	1			3	5		7	
Mvmt Sat Flow, veh/h	3191			3191	3191		3191	

Through Movement Data								
Assigned Mvmt		2	4			6		8
Mvmt Sat Flow, veh/h		4715	4715			4715		4715

Right-Turn Movement Data								
Assigned Mvmt		12	14			16		18
Mvmt Sat Flow, veh/h		1468	1468			1468		1468

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	5	0	7	0
Lane Assignment	(Prot)			(Prot)	(Prot)		(Prot)	
Lanes in Grp	2	0	0	2	2	0	2	0

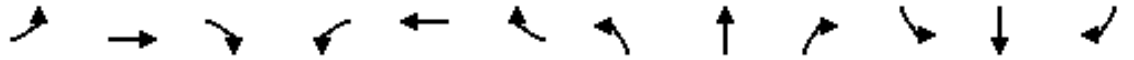
Grp Vol (v), veh/h	1188	0	0	643	563	0	996	0
Grp Sat Flow (s), veh/h/ln	1596	0	0	1596	1596	0	1596	0
Q Serve Time (g_s), s	20.0	0.0	0.0	14.4	10.0	0.0	16.0	0.0
Cycle Q Clear Time (g_c), s	20.0	0.0	0.0	14.4	10.0	0.0	16.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	532	0	0	383	266	0	426	0
V/C Ratio (X)	2.23	0.00	0.00	1.68	2.12	0.00	2.34	0.00
Avail Cap (c_a), veh/h	532	0	0	383	266	0	426	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	1.00	0.00	0.60	0.00
Uniform Delay (d1), s/veh	50.0	0.0	0.0	52.8	55.0	0.0	52.0	0.0
Incr Delay (d2), s/veh	561.2	0.0	0.0	316.1	515.2	0.0	607.7	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	611.2	0.0	0.0	368.8	570.2	0.0	659.7	0.0
1st-Term Q (Q1), veh/ln	8.8	0.0	0.0	6.3	4.4	0.0	7.0	0.0
2nd-Term Q (Q2), veh/ln	41.5	0.0	0.0	16.8	19.0	0.0	35.9	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	50.2	0.0	0.0	23.2	23.4	0.0	42.9	0.0
%ile Storage Ratio (RQ%)	7.54	0.00	0.00	3.74	3.47	0.00	6.23	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	164.0	0.0	0.0	64.9	74.3	0.0	142.6	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.6	0.0	0.0	0.4	0.5	0.0	0.6	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	0	6	0	8
Lane Assignment		T	T			T		T
Lanes in Grp	0	3	3	0	0	3	0	3
Grp Vol (v), veh/h	0	2470	902	0	0	1201	0	2441
Grp Sat Flow (s), veh/h/ln	0	1572	1572	0	0	1572	0	1572
Q Serve Time (g_s), s	0.0	35.0	20.2	0.0	0.0	25.6	0.0	33.0
Cycle Q Clear Time (g_c), s	0.0	35.0	20.2	0.0	0.0	25.6	0.0	33.0
Lane Grp Cap (c), veh/h	0	1375	1359	0	0	1768	0	1297
V/C Ratio (X)	0.00	1.80	0.66	0.00	0.00	0.68	0.00	1.88
Avail Cap (c_a), veh/h	0	1375	1493	0	0	1768	0	1297
Upstream Filter (I)	0.00	1.00	0.60	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	42.5	37.6	0.0	0.0	31.4	0.0	43.5
Incr Delay (d2), s/veh	0.0	361.1	0.6	0.0	0.0	2.1	0.0	400.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	403.6	38.2	0.0	0.0	33.6	0.0	443.5
1st-Term Q (Q1), veh/ln	0.0	15.2	8.8	0.0	0.0	11.1	0.0	14.3
2nd-Term Q (Q2), veh/ln	0.0	46.0	0.1	0.0	0.0	0.3	0.0	48.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	61.1	8.8	0.0	0.0	11.5	0.0	62.3
%ile Storage Ratio (RQ%)	0.00	0.35	0.06	0.00	0.00	0.10	0.00	1.25
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	273.7	0.0	0.0	0.0	0.0	0.0	286.1
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.5

Right Lane Group Data								
Assigned Mvmt	0	12	14	0	0	16	0	18
Lane Assignment		R	R			R		R
Lanes in Grp	0	1	1	0	0	1	0	1
Grp Vol (v), veh/h	0	333	817	0	0	1214	0	437
Grp Sat Flow (s), veh/h/ln	0	1468	1468	0	0	1468	0	1468
Q Serve Time (g_s), s	0.0	18.4	27.3	0.0	0.0	45.0	0.0	33.0
Cycle Q Clear Time (g_c), s	0.0	18.4	27.3	0.0	0.0	45.0	0.0	33.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	428	423	0	0	551	0	404
V/C Ratio (X)	0.00	0.78	1.93	0.00	0.00	2.20	0.00	1.08
Avail Cap (c_a), veh/h	0	428	465	0	0	551	0	404
Upstream Filter (I)	0.00	1.00	0.60	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	21.1	26.6	0.0	0.0	37.5	0.0	43.5
Incr Delay (d2), s/veh	0.0	13.0	424.0	0.0	0.0	548.2	0.0	68.7
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	34.1	450.6	0.0	0.0	585.7	0.0	112.2
1st-Term Q (Q1), veh/ln	0.0	7.5	11.0	0.0	0.0	18.2	0.0	13.3
2nd-Term Q (Q2), veh/ln	0.0	1.5	49.8	0.0	0.0	83.8	0.0	7.7
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	9.0	60.8	0.0	0.0	102.0	0.0	21.0
%ile Storage Ratio (RQ%)	0.00	1.29	8.64	0.00	0.00	14.97	0.00	3.87
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	98.5	0.0	0.0	165.9	0.0	8.3
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.5	0.0	0.0	0.6	0.0	0.3

Intersection Summary	
HCM 2010 Ctrl Delay	396.4
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	916	830	752	592	2246	402	518	2272	306	1093	1105	1117
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	996	902	817	643	2441	437	563	2470	333	1188	1201	1214
Adj No. of Lanes	2	3	1	2	3	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	426	1359	423	383	1297	404	266	1375	428	532	1768	551
Arrive On Green	0.13	0.29	0.29	0.12	0.28	0.28	0.08	0.29	0.29	0.17	0.38	0.38
Sat Flow, veh/h	3191	4715	1468	3191	4715	1468	3191	4715	1468	3191	4715	1468
Grp Volume(v), veh/h	996	902	817	643	2441	437	563	2470	333	1188	1201	1214
Grp Sat Flow(s),veh/h/ln	1596	1572	1468	1596	1572	1468	1596	1572	1468	1596	1572	1468
Q Serve(g_s), s	16.0	20.2	27.3	14.4	33.0	33.0	10.0	35.0	18.4	20.0	25.6	45.0
Cycle Q Clear(g_c), s	16.0	20.2	27.3	14.4	33.0	33.0	10.0	35.0	18.4	20.0	25.6	45.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	426	1359	423	383	1297	404	266	1375	428	532	1768	551
V/C Ratio(X)	2.34	0.66	1.93	1.68	1.88	1.08	2.12	1.80	0.78	2.23	0.68	2.20
Avail Cap(c_a), veh/h	426	1493	465	383	1297	404	266	1375	428	532	1768	551
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.60	0.60	0.60	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	52.0	37.6	26.6	52.8	43.5	43.5	55.0	42.5	21.1	50.0	31.4	37.5
Incr Delay (d2), s/veh	607.7	0.6	424.0	316.1	400.0	68.7	515.2	361.1	13.0	561.2	2.1	548.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	42.9	8.8	60.8	23.2	62.3	21.0	23.4	61.1	9.0	50.2	11.5	102.0
LnGrp Delay(d),s/veh	659.7	38.2	450.6	368.8	443.5	112.2	570.2	403.6	34.1	611.2	33.6	585.7
LnGrp LOS	F	D	F	F	F	F	F	F	C	F	C	F
Approach Vol, veh/h		2715			3521			3366			3603	
Approach Delay, s/veh		390.3			388.8			394.9			410.0	
Approach LOS		F			F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	24.0	39.0	18.4	38.6	14.0	49.0	20.0	37.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	20.0	35.0	11.0	38.0	10.0	45.0	16.0	33.0
Max Q Clear Time (g_c+I1), s	22.0	37.0	16.4	29.3	12.0	47.0	18.0	35.0
Green Ext Time (p_c), s	0.0	0.0	0.0	5.3	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	396.4
HCM 2010 LOS	F

Intersection	
Int Delay, s/veh	0.1

Movement	NBL	NBT	NBR	SBL	SBT	SBR	SEL	SET	SER	NWL	NWT	NWR
Vol, veh/h	17	1572	0	0	416	50	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	0
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	18	1709	0	0	452	54	0	0	0	0	0	0

Major/Minor	Major1			Major2			Minor1		
Conflicting Flow All	507	0	0	1709	0	0	2225	2253	1709
Stage 1	-	-	-	-	-	-	1746	1746	-
Stage 2	-	-	-	-	-	-	479	507	-
Critical Hdwy	4.2	-	-	4.2	-	-	6.5	6.6	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	5.5	5.6	-
Critical Hdwy Stg 2	-	-	-	-	-	-	5.5	5.6	-
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.59	4.09	3.39
Pot Cap-1 Maneuver	1018	-	-	351	-	-	45	39	107
Stage 1	-	-	-	-	-	-	147	134	-
Stage 2	-	-	-	-	-	-	607	526	-
Platoon blocked, %		-	-		-	-			
Mov Cap-1 Maneuver	1018	-	-	351	-	-	29	0	107
Mov Cap-2 Maneuver	-	-	-	-	-	-	29	0	-
Stage 1	-	-	-	-	-	-	96	0	-
Stage 2	-	-	-	-	-	-	607	0	-

Approach	NB	SB	NW
HCM Control Delay, s	0.1	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBL	NBT	NBR	NWLn1	NWLn2	SBL	SBT	SBR
Capacity (veh/h)	1018	-	-	-	-	351	-	-
HCM Lane V/C Ratio	0.018	-	-	-	-	-	-	-
HCM Control Delay (s)	8.6	0	-	0	0	0	-	-
HCM Lane LOS	A	A	-	A	A	A	-	-
HCM 95th %tile Q(veh)	0.1	-	-	-	-	0	-	-

Intersection	
Int Delay, s/veh	0.3

Movement	WBL	WBR	NBL	NBT	NBR	SBL	SBT	SBR	SEL	SER
Vol, veh/h	0	0	0	1058	1	36	406	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	-	-	-	None	-	-	None	-	None
Storage Length	-	-	-	-	-	-	-	-	0	0
Veh in Median Storage, #	0	-	-	0	-	-	0	-	0	-
Grade, %	0	-	-	0	-	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	19	19	28	28	28	28	28	28	19	19
Mvmt Flow	0	0	0	1150	1	39	441	0	0	0

Major/Minor	Minor1		Major1			Major2			Minor2	
Conflicting Flow All	1671	1151	441	0	0	1151	0	0	1671	441
Stage 1	1151	-	-	-	-	-	-	-	520	-
Stage 2	520	-	-	-	-	-	-	-	1151	-
Critical Hdwy	7.29	6.39	4.38	-	-	4.38	-	-	7.29	6.39
Critical Hdwy Stg 1	6.29	-	-	-	-	-	-	-	6.29	-
Critical Hdwy Stg 2	6.29	-	-	-	-	-	-	-	6.29	-
Follow-up Hdwy	3.671	3.471	2.452	-	-	2.452	-	-	3.671	3.471
Pot Cap-1 Maneuver	69	223	994	-	-	522	-	-	69	582
Stage 1	223	-	-	-	-	-	-	-	509	-
Stage 2	509	-	-	-	-	-	-	-	223	-
Platoon blocked, %				-	-		-	-		
Mov Cap-1 Maneuver	64	223	994	-	-	522	-	-	64	582
Mov Cap-2 Maneuver	64	-	-	-	-	-	-	-	64	-
Stage 1	223	-	-	-	-	-	-	-	509	-
Stage 2	459	-	-	-	-	-	-	-	223	-

Approach	WB	NB	SB	SE
HCM Control Delay, s	0	0	1	0
HCM LOS	A			A

Minor Lane/Major Mvmt	NBL	NBT	NBR	WBLn1	SELn1	SELn2	SBL	SBT	SBR
Capacity (veh/h)	994	-	-	-	-	-	522	-	-
HCM Lane V/C Ratio	-	-	-	-	-	-	0.075	-	-
HCM Control Delay (s)	0	-	-	0	0	0	12.5	0	-
HCM Lane LOS	A	-	-	A	A	A	B	A	-
HCM 95th %tile Q(veh)	0	-	-	-	-	-	0.2	-	-

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	208	476	10	12	110	193	5	196	14	94	82	61
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	226	517	11	13	120	210	5	213	15	102	89	66
Adj No. of Lanes	2	2	0	1	2	1	2	2	1	2	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	294	605	13	94	489	219	1769	1894	847	154	123	104
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.09	0.18	0.18	0.06	0.15	0.15	0.55	0.58	0.58	0.05	0.07	0.07
Ln Grp Delay, s/veh	57.4	54.2	54.0	54.0	45.2	50.3	11.9	11.6	5.5	58.6	71.6	67.9
Ln Grp LOS	E	D	D	D	D	D	B	B	A	E	E	E
Approach Vol, veh/h		754			343			233			257	
Approach Delay, s/veh		55.1			48.7			11.2			65.5	
Approach LOS		E			D			B			E	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	6	5	8	7
Case No	2.0	3.0	4.0	2.0	3.0	2.0	3.0	2.0
Phs Duration (G+Y+Rc), s	9.8	73.2	26.1	10.9	12.5	70.5	21.9	15.1
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	18.0	28.0	43.0	15.0	31.0	15.0	33.0	25.0
Max Allow Headway (MAH), s	4.1	4.0	4.0	4.1	4.2	4.0	4.2	4.1
Max Q Clear (g_c+I1), s	5.8	5.5	20.3	2.9	8.1	2.1	16.7	10.3
Green Ext Time (g_e), s	0.2	0.8	1.8	0.7	0.5	0.7	1.1	0.8
Prob of Phs Call (p_c)	0.97	1.00	1.00	0.35	1.00	0.15	1.00	1.00
Prob of Max Out (p_x)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Left-Turn Movement Data								
Assigned Mvmt	1			3		5		7
Mvmt Sat Flow, veh/h	3191			1645		3191		3191

Through Movement Data								
Assigned Mvmt		2	4		6		8	
Mvmt Sat Flow, veh/h		3282	3286		1727		3282	

Right-Turn Movement Data								
Assigned Mvmt		12	14		16		18	
Mvmt Sat Flow, veh/h		1468	70		1468		1468	

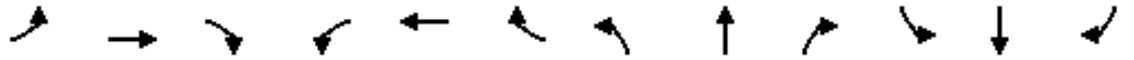
Left Lane Group Data								
Assigned Mvmt	1	0	0	3	0	5	0	7
Lane Assignment	(Prot)			(Prot)		(Prot)		(Prot)
Lanes in Grp	2	0	0	1	0	2	0	2

Grp Vol (v), veh/h	102	0	0	13	0	5	0	226
Grp Sat Flow (s), veh/h/ln	1596	0	0	1645	0	1596	0	1596
Q Serve Time (g_s), s	3.8	0.0	0.0	0.9	0.0	0.1	0.0	8.3
Cycle Q Clear Time (g_c), s	3.8	0.0	0.0	0.9	0.0	0.1	0.0	8.3
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	154	0	0	94	0	1769	0	294
V/C Ratio (X)	0.66	0.00	0.00	0.14	0.00	0.00	0.00	0.77
Avail Cap (c_a), veh/h	479	0	0	206	0	1769	0	665
Upstream Filter (I)	0.50	0.00	0.00	0.43	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	56.1	0.0	0.0	53.8	0.0	11.9	0.0	53.2
Incr Delay (d2), s/veh	2.4	0.0	0.0	0.3	0.0	0.0	0.0	4.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	58.6	0.0	0.0	54.0	0.0	11.9	0.0	57.4
1st-Term Q (Q1), veh/ln	1.7	0.0	0.0	0.4	0.0	0.0	0.0	3.7
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	1.7	0.0	0.0	0.4	0.0	0.0	0.0	3.8
%ile Storage Ratio (RQ%)	0.23	0.00	0.00	0.05	0.00	0.01	0.00	0.73
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	6	0	8	0
Lane Assignment		T	T		T		T	
Lanes in Grp	0	2	1	0	1	0	2	0
Grp Vol (v), veh/h	0	213	258	0	89	0	120	0
Grp Sat Flow (s), veh/h/ln	0	1641	1641	0	1727	0	1641	0
Q Serve Time (g_s), s	0.0	3.5	18.3	0.0	6.1	0.0	3.9	0.0
Cycle Q Clear Time (g_c), s	0.0	3.5	18.3	0.0	6.1	0.0	3.9	0.0
Lane Grp Cap (c), veh/h	0	1894	302	0	123	0	489	0
V/C Ratio (X)	0.00	0.11	0.85	0.00	0.72	0.00	0.25	0.00
Avail Cap (c_a), veh/h	0	1894	588	0	446	0	903	0
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.50	0.00	0.43	0.00
Uniform Delay (d1), s/veh	0.0	11.5	47.4	0.0	54.6	0.0	45.1	0.0
Incr Delay (d2), s/veh	0.0	0.1	6.8	0.0	17.0	0.0	0.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	11.6	54.2	0.0	71.6	0.0	45.2	0.0
1st-Term Q (Q1), veh/ln	0.0	1.6	8.3	0.0	2.9	0.0	1.8	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.6	0.0	0.6	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	1.6	8.9	0.0	3.5	0.0	1.8	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	14	0	16	0	18	0
Lane Assignment		R	T+R		R		R	
Lanes in Grp	0	1	1	0	1	0	1	0
Grp Vol (v), veh/h	0	15	270	0	66	0	210	0
Grp Sat Flow (s), veh/h/ln	0	1468	1715	0	1468	0	1468	0
Q Serve Time (g_s), s	0.0	0.4	18.3	0.0	5.2	0.0	14.7	0.0
Cycle Q Clear Time (g_c), s	0.0	0.4	18.3	0.0	5.2	0.0	14.7	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.04	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	847	316	0	104	0	219	0
V/C Ratio (X)	0.00	0.02	0.86	0.00	0.63	0.00	0.96	0.00
Avail Cap (c_a), veh/h	0	847	615	0	379	0	404	0
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.50	0.00	0.43	0.00
Uniform Delay (d1), s/veh	0.0	5.4	47.4	0.0	54.2	0.0	37.9	0.0
Incr Delay (d2), s/veh	0.0	0.0	6.6	0.0	13.7	0.0	12.4	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	5.5	54.0	0.0	67.9	0.0	50.3	0.0
1st-Term Q (Q1), veh/ln	0.0	0.1	8.7	0.0	2.1	0.0	6.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.6	0.0	0.4	0.0	0.8	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.2	9.3	0.0	2.5	0.0	6.7	0.0
%ile Storage Ratio (RQ%)	0.00	0.02	0.01	0.00	0.37	0.00	0.88	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

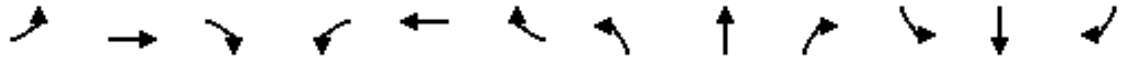
Intersection Summary	
HCM 2010 Ctrl Delay	48.9
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	208	476	10	12	110	193	5	196	14	94	82	61
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	226	517	11	13	120	210	5	213	15	102	89	66
Adj No. of Lanes	2	2	0	1	2	1	2	2	1	2	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	294	605	13	94	489	219	1769	1894	847	154	123	104
Arrive On Green	0.09	0.18	0.18	0.06	0.15	0.15	0.55	0.58	0.58	0.05	0.07	0.07
Sat Flow, veh/h	3191	3286	70	1645	3282	1468	3191	3282	1468	3191	1727	1468
Grp Volume(v), veh/h	226	258	270	13	120	210	5	213	15	102	89	66
Grp Sat Flow(s),veh/h/ln	1596	1641	1715	1645	1641	1468	1596	1641	1468	1596	1727	1468
Q Serve(g_s), s	8.3	18.3	18.3	0.9	3.9	14.7	0.1	3.5	0.4	3.8	6.1	5.2
Cycle Q Clear(g_c), s	8.3	18.3	18.3	0.9	3.9	14.7	0.1	3.5	0.4	3.8	6.1	5.2
Prop In Lane	1.00		0.04	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	294	302	316	94	489	219	1769	1894	847	154	123	104
V/C Ratio(X)	0.77	0.85	0.86	0.14	0.25	0.96	0.00	0.11	0.02	0.66	0.72	0.63
Avail Cap(c_a), veh/h	665	588	615	206	903	404	1769	1894	847	479	446	379
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.43	0.43	0.43	1.00	1.00	1.00	0.50	0.50	0.50
Uniform Delay (d), s/veh	53.2	47.4	47.4	53.8	45.1	37.9	11.9	11.5	5.4	56.1	54.6	54.2
Incr Delay (d2), s/veh	4.2	6.8	6.6	0.3	0.1	12.4	0.0	0.1	0.0	2.4	17.0	13.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.8	8.9	9.3	0.4	1.8	6.7	0.0	1.6	0.2	1.7	3.5	2.5
LnGrp Delay(d),s/veh	57.4	54.2	54.0	54.0	45.2	50.3	11.9	11.6	5.5	58.6	71.6	67.9
LnGrp LOS	E	D	D	D	D	D	B	B	A	E	E	E
Approach Vol, veh/h		754			343			233			257	
Approach Delay, s/veh		55.1			48.7			11.2			65.5	
Approach LOS		E			D			B			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.8	73.2	10.9	26.1	70.5	12.5	15.1	21.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	5.8	28.0	15.0	43.0	15.0	31.0	25.0	33.0
Max Q Clear Time (g_c+I1), s	5.8	5.5	2.9	20.3	2.1	8.1	10.3	16.7
Green Ext Time (p_c), s	0.2	0.8	0.7	1.8	0.7	0.5	0.8	1.1

Intersection Summary	
HCM 2010 Ctrl Delay	48.9
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	124	191	110	44	275	75	77	446	29	75	283	138
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	135	208	120	48	299	82	84	485	32	82	308	150
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	160	228	132	199	321	88	104	516	34	331	505	246
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.10	0.22	0.22	0.12	0.25	0.25	0.06	0.32	0.32	0.20	0.46	0.46
Ln Grp Delay, s/veh	71.3	0.0	56.6	48.1	0.0	61.0	78.1	0.0	65.5	40.7	0.0	28.0
Ln Grp LOS	E		E	D		E	E		E	D		C
Approach Vol, veh/h		463			429			601			540	
Approach Delay, s/veh		60.9			59.6			67.2			29.9	
Approach LOS		E			E			E			C	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	5	6	8	7
Case No	4.0	2.0	4.0	2.0	2.0	4.0	4.0	2.0
Phs Duration (G+Y+Rc), s	42.7	28.2	30.6	18.5	11.6	59.2	33.5	15.6
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	46.0	10.0	39.0	9.0	10.0	46.0	34.0	14.0
Max Allow Headway (MAH), s	4.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	37.3	7.0	25.7	5.2	8.0	27.2	28.9	11.7
Green Ext Time (g_e), s	1.4	0.7	1.0	0.2	0.0	2.0	0.7	0.1
Prob of Phs Call (p_c)	1.00	0.93	1.00	0.80	0.94	1.00	1.00	0.99
Prob of Max Out (p_x)	0.17	1.00	0.01	1.00	1.00	0.01	0.61	1.00

Left-Turn Movement Data								
Assigned Mvmt		1		3	5			7
Mvmt Sat Flow, veh/h		1645		1645	1645			1645

Through Movement Data								
Assigned Mvmt	2		4			6	8	
Mvmt Sat Flow, veh/h	1603		1029			1098	1306	

Right-Turn Movement Data								
Assigned Mvmt	12		14			16	18	
Mvmt Sat Flow, veh/h	106		594			535	358	

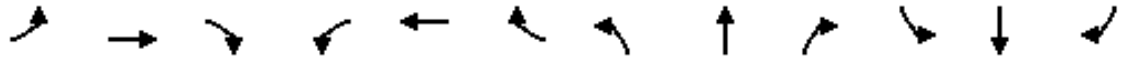
Left Lane Group Data								
Assigned Mvmt	0	1	0	3	5	0	0	7
Lane Assignment		(Prot)		(Prot)	(Prot)			(Prot)
Lanes in Grp	0	1	0	1	1	0	0	1

Grp Vol (v), veh/h	0	82	0	48	84	0	0	135
Grp Sat Flow (s), veh/h/ln	0	1645	0	1645	1645	0	0	1645
Q Serve Time (g_s), s	0.0	5.0	0.0	3.2	6.0	0.0	0.0	9.7
Cycle Q Clear Time (g_c), s	0.0	5.0	0.0	3.2	6.0	0.0	0.0	9.7
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	331	0	199	104	0	0	160
V/C Ratio (X)	0.00	0.25	0.00	0.24	0.81	0.00	0.00	0.85
Avail Cap (c_a), veh/h	0	331	0	199	137	0	0	192
Upstream Filter (I)	0.00	1.00	0.00	0.63	1.00	0.00	0.00	0.69
Uniform Delay (d1), s/veh	0.0	40.3	0.0	47.7	55.5	0.0	0.0	53.3
Incr Delay (d2), s/veh	0.0	0.4	0.0	0.4	22.6	0.0	0.0	18.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	40.7	0.0	48.1	78.1	0.0	0.0	71.3
1st-Term Q (Q1), veh/ln	0.0	2.3	0.0	1.4	2.8	0.0	0.0	4.4
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.8
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	2.3	0.0	1.5	3.4	0.0	0.0	5.2
%ile Storage Ratio (RQ%)	0.00	0.46	0.00	0.29	0.67	0.00	0.00	1.04
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	0	6	8	0
Lane Assignment								
Lanes in Grp	0	0	0	0	0	0	0	0
Grp Vol (v), veh/h	0	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	0	16	18	0
Lane Assignment	T+R		T+R			T+R	T+R	
Lanes in Grp	1	0	1	0	0	1	1	0
Grp Vol (v), veh/h	517	0	328	0	0	458	381	0
Grp Sat Flow (s), veh/h/ln	1709	0	1623	0	0	1633	1664	0
Q Serve Time (g_s), s	35.3	0.0	23.7	0.0	0.0	25.2	26.9	0.0
Cycle Q Clear Time (g_c), s	35.3	0.0	23.7	0.0	0.0	25.2	26.9	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.06	0.00	0.37	0.00	0.00	0.33	0.22	0.00
Lane Grp Cap (c), veh/h	550	0	360	0	0	752	410	0
V/C Ratio (X)	0.94	0.00	0.91	0.00	0.00	0.61	0.93	0.00
Avail Cap (c_a), veh/h	655	0	527	0	0	752	471	0
Upstream Filter (I)	1.00	0.00	0.69	0.00	0.00	1.00	0.63	0.00
Uniform Delay (d1), s/veh	39.5	0.0	45.5	0.0	0.0	24.3	44.2	0.0
Incr Delay (d2), s/veh	25.9	0.0	11.1	0.0	0.0	3.7	16.8	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	65.5	0.0	56.6	0.0	0.0	28.0	61.0	0.0
1st-Term Q (Q1), veh/ln	16.7	0.0	10.6	0.0	0.0	11.3	12.4	0.0
2nd-Term Q (Q2), veh/ln	4.0	0.0	1.1	0.0	0.0	0.8	1.9	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	20.6	0.0	11.7	0.0	0.0	12.1	14.3	0.0
%ile Storage Ratio (RQ%)	0.05	0.00	0.06	0.00	0.00	0.03	0.08	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	54.2
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	124	191	110	44	275	75	77	446	29	75	283	138
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	135	208	120	48	299	82	84	485	32	82	308	150
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	160	228	132	199	321	88	104	516	34	331	505	246
Arrive On Green	0.10	0.22	0.22	0.12	0.25	0.25	0.06	0.32	0.32	0.20	0.46	0.46
Sat Flow, veh/h	1645	1029	594	1645	1306	358	1645	1603	106	1645	1098	535
Grp Volume(v), veh/h	135	0	328	48	0	381	84	0	517	82	0	458
Grp Sat Flow(s),veh/h/ln	1645	0	1623	1645	0	1664	1645	0	1709	1645	0	1633
Q Serve(g_s), s	9.7	0.0	23.7	3.2	0.0	26.9	6.0	0.0	35.3	5.0	0.0	25.2
Cycle Q Clear(g_c), s	9.7	0.0	23.7	3.2	0.0	26.9	6.0	0.0	35.3	5.0	0.0	25.2
Prop In Lane	1.00		0.37	1.00		0.22	1.00		0.06	1.00		0.33
Lane Grp Cap(c), veh/h	160	0	360	199	0	410	104	0	550	331	0	752
V/C Ratio(X)	0.85	0.00	0.91	0.24	0.00	0.93	0.81	0.00	0.94	0.25	0.00	0.61
Avail Cap(c_a), veh/h	192	0	527	199	0	471	137	0	655	331	0	752
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.69	0.00	0.69	0.63	0.00	0.63	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	53.3	0.0	45.5	47.7	0.0	44.2	55.5	0.0	39.5	40.3	0.0	24.3
Incr Delay (d2), s/veh	18.0	0.0	11.1	0.4	0.0	16.8	22.6	0.0	25.9	0.4	0.0	3.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.2	0.0	11.7	1.5	0.0	14.3	3.4	0.0	20.6	2.3	0.0	12.1
LnGrp Delay(d),s/veh	71.3	0.0	56.6	48.1	0.0	61.0	78.1	0.0	65.5	40.7	0.0	28.0
LnGrp LOS	E		E	D		E	E		E	D		C
Approach Vol, veh/h		463			429			601			540	
Approach Delay, s/veh		60.9			59.6			67.2			29.9	
Approach LOS		E			E			E			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	28.2	42.7	18.5	30.6	11.6	59.2	15.6	33.5
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	10.0	46.0	9.0	39.0	10.0	46.0	14.0	34.0
Max Q Clear Time (g_c+I1), s	7.7	37.3	5.2	25.7	8.0	27.2	11.7	28.9
Green Ext Time (p_c), s	0.7	1.4	0.2	1.0	0.0	2.0	0.1	0.7

Intersection Summary	
HCM 2010 Ctrl Delay	54.2
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	110	784	18	19	551	519	5	236	38	459	183	62
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1900	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	120	852	20	21	599	564	5	257	41	499	199	67
Adj No. of Lanes	1	1	0	1	1	1	0	1	0	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	125	742	17	60	763	648	34	711	112	493	849	722
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.44	0.44	0.44	0.44	0.44	0.44	0.49	0.49	0.49	0.49	0.49	0.49
Ln Grp Delay, s/veh	108.4	0.0	110.1	63.4	34.1	42.6	19.9	0.0	0.0	52.2	17.6	16.3
Ln Grp LOS	F		F	E	C	D	B			F	B	B
Approach Vol, veh/h		992			1184			303			765	
Approach Delay, s/veh		109.9			38.6			19.9			40.0	
Approach LOS		F			D			B			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Case No		8.0		6.0		5.0		5.0
Phs Duration (G+Y+Rc), s		63.0		57.0		63.0		57.0
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green (Gmax), s		59.0		53.0		59.0		53.0
Max Allow Headway (MAH), s		4.6		4.4		4.6		4.4
Max Q Clear (g_c+I1), s		15.4		55.0		61.0		55.0
Green Ext Time (g_e), s		6.0		0.0		0.0		0.0
Prob of Phs Call (p_c)		1.00		1.00		1.00		1.00
Prob of Max Out (p_x)		0.00		1.00		1.00		1.00

Left-Turn Movement Data								
Assigned Mvmt		5		7		1		3
Mvmt Sat Flow, veh/h		8		446		999		587

Through Movement Data								
Assigned Mvmt		2		4		6		8
Mvmt Sat Flow, veh/h		1447		1681		1727		1727

Right-Turn Movement Data								
Assigned Mvmt		12		14		16		18
Mvmt Sat Flow, veh/h		228		39		1468		1468

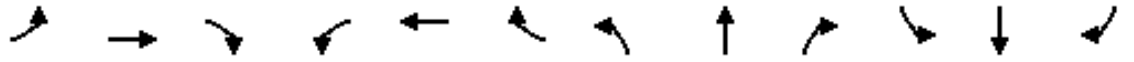
Left Lane Group Data								
Assigned Mvmt	0	5	0	7	0	1	0	3
Lane Assignment		L+T+R						
Lanes in Grp	0	1	0	1	0	1	0	1

Grp Vol (v), veh/h	0	303	0	120	0	499	0	21
Grp Sat Flow (s), veh/h/ln	0	1682	0	446	0	999	0	587
Q Serve Time (g_s), s	0.0	0.0	0.0	17.4	0.0	45.6	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	13.4	0.0	53.0	0.0	59.0	0.0	53.0
Perm LT Sat Flow (s_l), veh/h/ln	0	1131	0	446	0	999	0	587
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	476	0	0
Perm LT Eff Green (g_p), s	0.0	59.0	0.0	53.0	0.0	59.0	0.0	53.0
Perm LT Serve Time (g_u), s	0.0	51.1	0.0	17.4	0.0	45.6	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	17.4	0.0	45.6	0.0	0.0
Time to First Blk (g_f), s	0.0	42.7	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	13.4	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.02	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	857	0	125	0	493	0	60
V/C Ratio (X)	0.00	0.35	0.00	0.96	0.00	1.01	0.00	0.35
Avail Cap (c_a), veh/h	0	857	0	125	0	493	0	60
Upstream Filter (I)	0.00	0.88	0.00	0.64	0.00	0.09	0.00	1.00
Uniform Delay (d1), s/veh	0.0	18.9	0.0	55.3	0.0	36.8	0.0	60.0
Incr Delay (d2), s/veh	0.0	1.0	0.0	53.1	0.0	15.4	0.0	3.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	19.9	0.0	108.4	0.0	52.2	0.0	63.4
1st-Term Q (Q1), veh/ln	0.0	6.2	0.0	4.0	0.0	16.3	0.0	0.7
2nd-Term Q (Q2), veh/ln	0.0	0.2	0.0	1.8	0.0	2.1	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	6.5	0.0	5.8	0.0	18.4	0.0	0.8
%ile Storage Ratio (RQ%)	0.00	0.02	0.00	0.91	0.00	2.70	0.00	0.13
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	0	8
Lane Assignment						T		T
Lanes in Grp	0	0	0	0	0	1	0	1
Grp Vol (v), veh/h	0	0	0	0	0	199	0	599
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	1727	0	1727
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	7.9	0.0	35.6
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	7.9	0.0	35.6
Lane Grp Cap (c), veh/h	0	0	0	0	0	849	0	763
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.79
Avail Cap (c_a), veh/h	0	0	0	0	0	849	0	763
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.09	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	17.5	0.0	28.6
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.1	0.0	5.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	17.6	0.0	34.1
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	3.8	0.0	17.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	3.8	0.0	18.1
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	0	18
Lane Assignment				T+R		R		R
Lanes in Grp	0	0	0	1	0	1	0	1
Grp Vol (v), veh/h	0	0	0	872	0	67	0	564
Grp Sat Flow (s), veh/h/ln	0	0	0	1720	0	1468	0	1468
Q Serve Time (g_s), s	0.0	0.0	0.0	53.0	0.0	2.9	0.0	41.8
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	53.0	0.0	2.9	0.0	41.8
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.14	0.00	0.02	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	0	0	760	0	722	0	648
V/C Ratio (X)	0.00	0.00	0.00	1.15	0.00	0.09	0.00	0.87
Avail Cap (c_a), veh/h	0	0	0	760	0	722	0	648
Upstream Filter (I)	0.00	0.00	0.00	0.64	0.00	0.09	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	33.5	0.0	16.2	0.0	30.4
Incr Delay (d2), s/veh	0.0	0.0	0.0	76.6	0.0	0.0	0.0	12.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	110.1	0.0	16.3	0.0	42.6
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	25.1	0.0	1.2	0.0	16.9
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	16.2	0.0	0.0	0.0	2.2
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	41.3	0.0	1.2	0.0	19.1
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.22	0.00	0.09	0.00	1.59
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	28.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	59.0
HCM 2010 LOS	E



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	110	784	18	19	551	519	5	236	38	459	183	62
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1900	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	120	852	20	21	599	564	5	257	41	499	199	67
Adj No. of Lanes	1	1	0	1	1	1	0	1	0	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	125	742	17	60	763	648	34	711	112	493	849	722
Arrive On Green	0.44	0.44	0.44	0.44	0.44	0.44	0.49	0.49	0.49	0.49	0.49	0.49
Sat Flow, veh/h	446	1681	39	587	1727	1468	8	1447	228	999	1727	1468
Grp Volume(v), veh/h	120	0	872	21	599	564	303	0	0	499	199	67
Grp Sat Flow(s),veh/h/ln	446	0	1720	587	1727	1468	1682	0	0	999	1727	1468
Q Serve(g_s), s	17.4	0.0	53.0	0.0	35.6	41.8	0.0	0.0	0.0	45.6	7.9	2.9
Cycle Q Clear(g_c), s	53.0	0.0	53.0	53.0	35.6	41.8	13.4	0.0	0.0	59.0	7.9	2.9
Prop In Lane	1.00		0.02	1.00		1.00	0.02		0.14	1.00		1.00
Lane Grp Cap(c), veh/h	125	0	760	60	763	648	857	0	0	493	849	722
V/C Ratio(X)	0.96	0.00	1.15	0.35	0.79	0.87	0.35	0.00	0.00	1.01	0.23	0.09
Avail Cap(c_a), veh/h	125	0	760	60	763	648	857	0	0	493	849	722
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.64	0.00	0.64	1.00	1.00	1.00	0.88	0.00	0.00	0.09	0.09	0.09
Uniform Delay (d), s/veh	55.3	0.0	33.5	60.0	28.6	30.4	18.9	0.0	0.0	36.8	17.5	16.2
Incr Delay (d2), s/veh	53.1	0.0	76.6	3.4	5.4	12.2	1.0	0.0	0.0	15.4	0.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.8	0.0	41.3	0.8	18.1	19.1	6.5	0.0	0.0	18.4	3.8	1.2
LnGrp Delay(d),s/veh	108.4	0.0	110.1	63.4	34.1	42.6	19.9	0.0	0.0	52.2	17.6	16.3
LnGrp LOS	F		F	E	C	D	B			F	B	B
Approach Vol, veh/h		992			1184			303			765	
Approach Delay, s/veh		109.9			38.6			19.9			40.0	
Approach LOS		F			D			B			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Phs Duration (G+Y+Rc), s		63.0		57.0		63.0		57.0
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green Setting (Gmax), s		59.0		53.0		59.0		53.0
Max Q Clear Time (g_c+I1), s		15.4		55.0		61.0		55.0
Green Ext Time (p_c), s		6.0		0.0		0.0		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	59.0
HCM 2010 LOS	E

Intersection	
Int Delay, s/veh	18.5

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	0	912	404	0	139	30
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	19	19	19	19	10	10
Mvmt Flow	0	991	439	0	151	33

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	439	0	-	0	1430	439
Stage 1	-	-	-	-	439	-
Stage 2	-	-	-	-	991	-
Critical Hdwy	4.29	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.371	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1036	-	-	-	~ 142	601
Stage 1	-	-	-	-	633	-
Stage 2	-	-	-	-	347	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1036	-	-	-	~ 142	601
Mov Cap-2 Maneuver	-	-	-	-	~ 142	-
Stage 1	-	-	-	-	633	-
Stage 2	-	-	-	-	347	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	162.6
HCM LOS			F

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1036	-	-	-	164
HCM Lane V/C Ratio	-	-	-	-	1.12
HCM Control Delay (s)	0	-	-	-	162.6
HCM Lane LOS	A	-	-	-	F
HCM 95th %tile Q(veh)	0	-	-	-	9.6

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	WBT	WBR	SEL	SER
Vol, veh/h	0	1179	0	65	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	19	19	19	19	10	10
Mvmt Flow	0	1282	0	71	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	71	0	-	0	1317	35
Stage 1	-	-	-	-	35	-
Stage 2	-	-	-	-	1282	-
Critical Hdwy	4.29	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.371	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1428	-	-	-	167	1015
Stage 1	-	-	-	-	967	-
Stage 2	-	-	-	-	251	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1428	-	-	-	167	1015
Mov Cap-2 Maneuver	-	-	-	-	167	-
Stage 1	-	-	-	-	967	-
Stage 2	-	-	-	-	251	-

Approach	EB	WB	SE
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SELn1
Capacity (veh/h)	1428	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	-	-	0
HCM Lane LOS	A	-	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	-

Intersection	
Int Delay, s/veh	33

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	134	851	0	5	406	105	0	5	8	69	7	52
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	492	-	-	499	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	22	22	22	22	22	22	10	10	10	10	10	10
Mvmt Flow	146	925	0	5	441	114	0	5	9	75	8	57

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	555	0	0	925	0	0	1757	1782	925	1732	1725	498
Stage 1	-	-	-	-	-	-	1216	1216	-	509	509	-
Stage 2	-	-	-	-	-	-	541	566	-	1223	1216	-
Critical Hdwy	4.32	-	-	4.32	-	-	7.2	6.6	6.3	7.2	6.6	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Follow-up Hdwy	2.398	-	-	2.398	-	-	3.59	4.09	3.39	3.59	4.09	3.39
Pot Cap-1 Maneuver	923	-	-	663	-	-	63	78	315	~ 66	85	557
Stage 1	-	-	-	-	-	-	213	245	-	532	525	-
Stage 2	-	-	-	-	-	-	511	495	-	211	245	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	923	-	-	663	-	-	46	65	315	~ 53	71	557
Mov Cap-2 Maneuver	-	-	-	-	-	-	46	65	-	~ 53	71	-
Stage 1	-	-	-	-	-	-	179	206	-	448	521	-
Stage 2	-	-	-	-	-	-	449	491	-	168	206	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	1.3	0.1	36.9	$ 409
HCM LOS			E	F

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	127	923	-	-	663	-	-	86
HCM Lane V/C Ratio	0.111	0.158	-	-	0.008	-	-	1.618
HCM Control Delay (s)	36.9	9.6	-	-	10.5	-	-	$ 409
HCM Lane LOS	E	A	-	-	B	-	-	F
HCM 95th %tile Q(veh)	0.4	0.6	-	-	0	-	-	11.3

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Intersection	
Int Delay, s/veh	93.9

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	60	1527	715	148	98	19
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	104	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	23	23	23	23	10	10
Mvmt Flow	65	1660	777	161	107	21

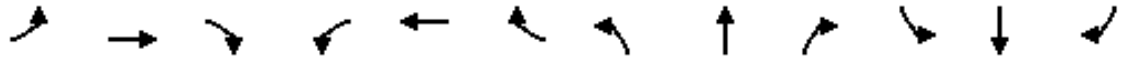
Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	938	0	-	0	2648	858
Stage 1	-	-	-	-	858	-
Stage 2	-	-	-	-	1790	-
Critical Hdwy	4.33	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.407	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	652	-	-	-	~ 24	345
Stage 1	-	-	-	-	402	-
Stage 2	-	-	-	-	140	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	652	-	-	-	~ 22	345
Mov Cap-2 Maneuver	-	-	-	-	~ 22	-
Stage 1	-	-	-	-	402	-
Stage 2	-	-	-	-	126	-

Approach	EB	WB	SB
HCM Control Delay, s	0.4	0	$ 2054.1
HCM LOS			F

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	652	-	-	-	26
HCM Lane V/C Ratio	0.1	-	-	-	4.891
HCM Control Delay (s)	11.1	-	-	$	2054.1
HCM Lane LOS	B	-	-	-	F
HCM 95th %tile Q(veh)	0.3	-	-	-	15.7

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	172	1107	26	14	445	86	20	67	9	88	80	80
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1624	1624	1900	1624	1624	1624	1900	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	187	1203	28	15	484	93	22	73	10	96	87	87
Adj No. of Lanes	1	1	0	1	1	1	0	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	17	17	17	17	17	17	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	221	1051	24	22	870	740	84	224	27	143	100	89
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.14	0.66	0.66	0.01	0.54	0.54	0.18	0.18	0.18	0.18	0.18	0.18
Ln Grp Delay, s/veh	46.4	0.0	90.9	75.8	14.2	10.2	31.5	0.0	0.0	49.6	0.0	0.0
Ln Grp LOS	D		F	E	B	B	C			D		
Approach Vol, veh/h		1418			592			105			270	
Approach Delay, s/veh		85.1			15.1			31.5			49.6	
Approach LOS		F			B			C			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6	7	8
Case No		8.0	2.0	4.0		8.0	2.0	3.0
Phs Duration (G+Y+Rc), s		20.0	5.2	62.0		20.0	16.5	50.7
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0	4.0	4.0
Max Green (Gmax), s		16.0	4.0	58.0		16.0	20.0	42.0
Max Allow Headway (MAH), s		4.2	4.1	4.1		4.2	4.1	4.1
Max Q Clear (g_c+I1), s		6.7	2.8	60.0		17.6	12.3	19.2
Green Ext Time (g_e), s		1.0	0.0	0.0		0.0	0.3	10.7
Prob of Phs Call (p_c)		1.00	0.30	1.00		1.00	0.99	1.00
Prob of Max Out (p_x)		0.09	1.00	1.00		1.00	0.07	0.35

Left-Turn Movement Data								
Assigned Mvmt		5	3			1	7	
Mvmt Sat Flow, veh/h		183	1547			472	1547	

Through Movement Data								
Assigned Mvmt		2		4		6		8
Mvmt Sat Flow, veh/h		1223		1581		546		1624

Right-Turn Movement Data								
Assigned Mvmt		12		14		16		18
Mvmt Sat Flow, veh/h		148		37		484		1380

Left Lane Group Data								
Assigned Mvmt	0	5	3	0	0	1	7	0
Lane Assignment		L+T+R	(Prot)			L+T+R	(Prot)	
Lanes in Grp	0	1	1	0	0	1	1	0

Grp Vol (v), veh/h	0	105	15	0	0	270	187	0
Grp Sat Flow (s), veh/h/ln	0	1554	1547	0	0	1502	1547	0
Q Serve Time (g_s), s	0.0	0.0	0.8	0.0	0.0	10.9	10.3	0.0
Cycle Q Clear Time (g_c), s	0.0	4.7	0.8	0.0	0.0	15.6	10.3	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	1230	0	0	0	1336	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	1454	0	0	0	1697	0	0
Perm LT Eff Green (g_p), s	0.0	16.0	0.0	0.0	0.0	16.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.4	0.0	0.0	0.0	11.3	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	10.9	0.0	0.0
Time to First Blk (g_f), s	0.0	6.4	0.0	0.0	0.0	1.7	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	4.7	0.0	0.0	0.0	1.7	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.21	1.00	0.00	0.00	0.36	1.00	0.00
Lane Grp Cap (c), veh/h	0	335	22	0	0	332	221	0
V/C Ratio (X)	0.00	0.31	0.69	0.00	0.00	0.81	0.84	0.00
Avail Cap (c_a), veh/h	0	335	71	0	0	332	355	0
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	1.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	31.0	42.8	0.0	0.0	35.2	36.4	0.0
Incr Delay (d2), s/veh	0.0	0.5	32.9	0.0	0.0	14.4	10.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	31.5	75.8	0.0	0.0	49.6	46.4	0.0
1st-Term Q (Q1), veh/ln	0.0	2.2	0.4	0.0	0.0	6.5	4.4	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.2	0.0	0.0	1.3	0.6	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	2.2	0.6	0.0	0.0	7.8	5.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.04	0.00	0.00	0.02	0.33	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	0	8
Lane Assignment								T
Lanes in Grp	0	0	0	0	0	0	0	1
Grp Vol (v), veh/h	0	0	0	0	0	0	0	484
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	1624
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	870
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	870
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.4
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.2
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	0	18
Lane Assignment				T+R				R
Lanes in Grp	0	0	0	1	0	0	0	1
Grp Vol (v), veh/h	0	0	0	1231	0	0	0	93
Grp Sat Flow (s), veh/h/ln	0	0	0	1617	0	0	0	1380
Q Serve Time (g_s), s	0.0	0.0	0.0	58.0	0.0	0.0	0.0	2.9
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	58.0	0.0	0.0	0.0	2.9
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.10	0.00	0.02	0.00	0.32	0.00	1.00
Lane Grp Cap (c), veh/h	0	0	0	1076	0	0	0	740
V/C Ratio (X)	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.13
Avail Cap (c_a), veh/h	0	0	0	1076	0	0	0	740
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	14.6	0.0	0.0	0.0	10.1
Incr Delay (d2), s/veh	0.0	0.0	0.0	76.3	0.0	0.0	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	90.9	0.0	0.0	0.0	10.2
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	25.4	0.0	0.0	0.0	1.1
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	22.8	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	48.2	0.0	0.0	0.0	1.1
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.06
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	38.9	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	61.3
HCM 2010 LOS	E

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	172	1107	26	14	445	86	20	67	9	88	80	80
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1624	1624	1900	1624	1624	1624	1900	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	187	1203	28	15	484	93	22	73	10	96	87	87
Adj No. of Lanes	1	1	0	1	1	1	0	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	17	17	17	17	17	17	10	10	10	10	10	10
Cap, veh/h	221	1051	24	22	870	740	84	224	27	143	100	89
Arrive On Green	0.14	0.66	0.66	0.01	0.54	0.54	0.18	0.18	0.18	0.18	0.18	0.18
Sat Flow, veh/h	1547	1581	37	1547	1624	1380	183	1223	148	472	546	484
Grp Volume(v), veh/h	187	0	1231	15	484	93	105	0	0	270	0	0
Grp Sat Flow(s),veh/h/ln	1547	0	1617	1547	1624	1380	1554	0	0	1502	0	0
Q Serve(g_s), s	10.3	0.0	58.0	0.8	17.2	2.9	0.0	0.0	0.0	10.9	0.0	0.0
Cycle Q Clear(g_c), s	10.3	0.0	58.0	0.8	17.2	2.9	4.7	0.0	0.0	15.6	0.0	0.0
Prop In Lane	1.00		0.02	1.00		1.00	0.21		0.10	0.36		0.32
Lane Grp Cap(c), veh/h	221	0	1076	22	870	740	335	0	0	332	0	0
V/C Ratio(X)	0.84	0.00	1.14	0.69	0.56	0.13	0.31	0.00	0.00	0.81	0.00	0.00
Avail Cap(c_a), veh/h	355	0	1076	71	870	740	335	0	0	332	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	36.4	0.0	14.6	42.8	13.4	10.1	31.0	0.0	0.0	35.2	0.0	0.0
Incr Delay (d2), s/veh	10.0	0.0	76.3	32.9	0.8	0.1	0.5	0.0	0.0	14.4	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.0	0.0	48.2	0.6	7.9	1.1	2.2	0.0	0.0	7.8	0.0	0.0
LnGrp Delay(d),s/veh	46.4	0.0	90.9	75.8	14.2	10.2	31.5	0.0	0.0	49.6	0.0	0.0
LnGrp LOS	D		F	E	B	B	C			D		
Approach Vol, veh/h		1418			592			105			270	
Approach Delay, s/veh		85.1			15.1			31.5			49.6	
Approach LOS		F			B			C			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6	7	8
Phs Duration (G+Y+Rc), s		20.0	5.2	62.0		20.0	16.5	50.7
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0	4.0	4.0
Max Green Setting (Gmax), s		16.0	4.0	58.0		16.0	20.0	42.0
Max Q Clear Time (g_c+I1), s		6.7	2.8	60.0		17.6	12.3	19.2
Green Ext Time (p_c), s		1.0	0.0	0.0		0.0	0.3	10.7

Intersection Summary	
HCM 2010 Ctrl Delay	61.3
HCM 2010 LOS	E

Intersection	
Intersection Delay, s/veh	14.8
Intersection LOS	B

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Vol, veh/h	0	14	130	0	0	51	51	16	0	0	240	246	0	14	53	12
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	15	15	15	10	15	15	15	10	10	10	10	10	10	10	10
Mvmt Flow	0	15	141	0	0	55	55	17	0	0	261	267	0	15	58	13
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	11.1	10.7	17.7	9.5
HCM LOS	B	B	C	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	10%	43%	18%
Vol Thru, %	49%	90%	43%	67%
Vol Right, %	51%	0%	14%	15%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	486	144	118	79
LT Vol	0	14	51	14
Through Vol	240	130	51	53
RT Vol	246	0	16	12
Lane Flow Rate	528	157	128	86
Geometry Grp	1	1	1	1
Degree of Util (X)	0.688	0.26	0.215	0.134
Departure Headway (Hd)	4.804	5.989	6.032	5.634
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	755	603	598	637
Service Time	2.804	4.002	4.045	3.661
HCM Lane V/C Ratio	0.699	0.26	0.214	0.135
HCM Control Delay	17.7	11.1	10.7	9.5
HCM Lane LOS	C	B	B	A
HCM 95th-tile Q	5.6	1	0.8	0.5

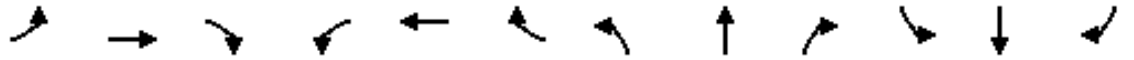
Intersection	
Int Delay, s/veh	0.9

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	25	355	123	38	16	8
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	15	15	15	15	10	10
Mvmt Flow	27	386	134	41	17	9

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	175	0	-	0	594	154
Stage 1	-	-	-	-	154	-
Stage 2	-	-	-	-	440	-
Critical Hdwy	4.25	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.335	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1326	-	-	-	455	871
Stage 1	-	-	-	-	855	-
Stage 2	-	-	-	-	633	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1326	-	-	-	443	871
Mov Cap-2 Maneuver	-	-	-	-	443	-
Stage 1	-	-	-	-	855	-
Stage 2	-	-	-	-	617	-

Approach	EB	WB	SB
HCM Control Delay, s	0.5	0	12.1
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1326	-	-	-	530
HCM Lane V/C Ratio	0.02	-	-	-	0.049
HCM Control Delay (s)	7.8	0	-	-	12.1
HCM Lane LOS	A	A	-	-	B
HCM 95th %tile Q(veh)	0.1	-	-	-	0.2



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	276	2655	168	869	1025	60	1125	1282	453	1588	4117	214
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	300	2886	183	945	1114	65	1223	1393	492	1726	4475	233
Adj No. of Lanes	2	2	1	2	3	0	2	3	0	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	351	1012	453	293	1322	77	372	1064	372	505	1650	514
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.11	0.31	0.31	0.09	0.29	0.29	0.12	0.31	0.31	0.16	0.35	0.35
Ln Grp Delay, s/veh	69.1	877.7	18.3	1067.0	47.2	52.8	1086.8	186.3	198.3	1138.1	809.3	30.4
Ln Grp LOS	E	F	B	F	D	D	F	F	F	F	F	C
Approach Vol, veh/h		3369			2124			3108			6434	
Approach Delay, s/veh		759.0			502.0			543.0			869.3	
Approach LOS		F			F			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	5	6	7	8
Case No	4.0	2.0	3.0	2.0	2.0	3.0	2.0	4.0
Phs Duration (G+Y+Rc), s	41.0	23.0	41.0	15.0	18.0	46.0	17.2	38.8
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	37.0	19.0	37.0	11.0	14.0	42.0	14.0	34.0
Max Allow Headway (MAH), s	4.1	4.0	4.0	4.1	4.1	4.0	4.1	4.1
Max Q Clear (g_c+I1), s	39.0	21.0	39.0	13.0	16.0	44.0	13.1	29.6
Green Ext Time (g_e), s	0.0	0.0	0.0	0.0	0.0	0.0	0.1	3.4
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prob of Max Out (p_x)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.98

Left-Turn Movement Data								
Assigned Mvmt		1		3	5		7	
Mvmt Sat Flow, veh/h		3191		3191	3191		3191	

Through Movement Data								
Assigned Mvmt	2		4			6		8
Mvmt Sat Flow, veh/h	3451		3282			4715		4558

Right-Turn Movement Data								
Assigned Mvmt	12		14			16		18
Mvmt Sat Flow, veh/h	1207		1468			1468		266

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	5	0	7	0
Lane Assignment		(Prot)		(Prot)	(Prot)		(Prot)	
Lanes in Grp	0	2	0	2	2	0	2	0

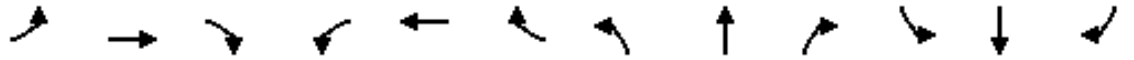
Grp Vol (v), veh/h	0	1726	0	945	1223	0	300	0
Grp Sat Flow (s), veh/h/ln	0	1596	0	1596	1596	0	1596	0
Q Serve Time (g_s), s	0.0	19.0	0.0	11.0	14.0	0.0	11.1	0.0
Cycle Q Clear Time (g_c), s	0.0	19.0	0.0	11.0	14.0	0.0	11.1	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	505	0	293	372	0	351	0
V/C Ratio (X)	0.00	3.42	0.00	3.23	3.28	0.00	0.85	0.00
Avail Cap (c_a), veh/h	0	505	0	293	372	0	372	0
Upstream Filter (I)	0.00	0.09	0.00	1.00	0.82	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	50.5	0.0	54.5	53.0	0.0	52.5	0.0
Incr Delay (d2), s/veh	0.0	1087.6	0.0	1012.5	1033.8	0.0	16.7	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	1138.1	0.0	1067.0	1086.8	0.0	69.1	0.0
1st-Term Q (Q1), veh/ln	0.0	8.4	0.0	4.8	6.2	0.0	4.9	0.0
2nd-Term Q (Q2), veh/ln	0.0	76.3	0.0	41.1	53.5	0.0	0.8	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	84.7	0.0	46.0	59.6	0.0	5.7	0.0
%ile Storage Ratio (RQ%)	0.00	11.97	0.00	6.46	8.89	0.00	0.81	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	305.2	0.0	163.1	212.7	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.9	0.0	0.8	0.8	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	0	6	0	8
Lane Assignment	T		T			T		T
Lanes in Grp	2	0	2	0	0	3	0	2
Grp Vol (v), veh/h	1268	0	2886	0	0	4475	0	768
Grp Sat Flow (s), veh/h/ln	1572	0	1641	0	0	1572	0	1572
Q Serve Time (g_s), s	37.0	0.0	37.0	0.0	0.0	42.0	0.0	27.5
Cycle Q Clear Time (g_c), s	37.0	0.0	37.0	0.0	0.0	42.0	0.0	27.5
Lane Grp Cap (c), veh/h	969	0	1012	0	0	1650	0	912
V/C Ratio (X)	1.31	0.00	2.85	0.00	0.00	2.71	0.00	0.84
Avail Cap (c_a), veh/h	969	0	1012	0	0	1650	0	912
Upstream Filter (I)	0.82	0.00	1.00	0.00	0.00	0.09	0.00	1.00
Uniform Delay (d1), s/veh	41.5	0.0	41.5	0.0	0.0	39.0	0.0	40.0
Incr Delay (d2), s/veh	144.8	0.0	836.2	0.0	0.0	770.3	0.0	7.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	186.3	0.0	877.7	0.0	0.0	809.3	0.0	47.2
1st-Term Q (Q1), veh/ln	16.0	0.0	16.7	0.0	0.0	18.2	0.0	11.9
2nd-Term Q (Q2), veh/ln	19.5	0.0	117.5	0.0	0.0	117.7	0.0	0.9

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	35.5	0.0	134.2	0.0	0.0	135.9	0.0	12.9
%ile Storage Ratio (RQ%)	0.05	0.00	0.70	0.00	0.00	0.35	0.00	0.06
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	74.6	0.0	468.5	0.0	0.0	706.1	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.3	0.0	0.7	0.0	0.0	0.7	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	0	16	0	18
Lane Assignment	T+R		R			R		T+R
Lanes in Grp	1	0	1	0	0	1	0	1
Grp Vol (v), veh/h	617	0	183	0	0	233	0	411
Grp Sat Flow (s), veh/h/ln	1514	0	1468	0	0	1468	0	1680
Q Serve Time (g_s), s	37.0	0.0	8.7	0.0	0.0	14.7	0.0	27.6
Cycle Q Clear Time (g_c), s	37.0	0.0	8.7	0.0	0.0	14.7	0.0	27.6
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.80	0.00	1.00	0.00	0.00	1.00	0.00	0.16
Lane Grp Cap (c), veh/h	467	0	453	0	0	514	0	487
V/C Ratio (X)	1.32	0.00	0.40	0.00	0.00	0.45	0.00	0.84
Avail Cap (c_a), veh/h	467	0	453	0	0	514	0	487
Upstream Filter (I)	0.82	0.00	1.00	0.00	0.00	0.09	0.00	1.00
Uniform Delay (d1), s/veh	41.5	0.0	17.7	0.0	0.0	30.1	0.0	40.0
Incr Delay (d2), s/veh	156.8	0.0	0.6	0.0	0.0	0.3	0.0	12.7
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	198.3	0.0	18.3	0.0	0.0	30.4	0.0	52.8
1st-Term Q (Q1), veh/ln	15.4	0.0	3.5	0.0	0.0	6.0	0.0	12.8
2nd-Term Q (Q2), veh/ln	20.3	0.0	0.1	0.0	0.0	0.0	0.0	1.7
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	35.8	0.0	3.6	0.0	0.0	6.0	0.0	14.5
%ile Storage Ratio (RQ%)	0.05	0.00	0.49	0.00	0.00	0.02	0.00	0.07
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	37.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0

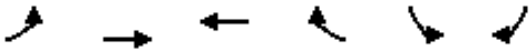
Intersection Summary	
HCM 2010 Ctrl Delay	725.2
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	276	2655	168	869	1025	60	1125	1282	453	1588	4117	214
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	300	2886	183	945	1114	65	1223	1393	492	1726	4475	233
Adj No. of Lanes	2	2	1	2	3	0	2	3	0	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	351	1012	453	293	1322	77	372	1064	372	505	1650	514
Arrive On Green	0.11	0.31	0.31	0.09	0.29	0.29	0.12	0.31	0.31	0.16	0.35	0.35
Sat Flow, veh/h	3191	3282	1468	3191	4558	266	3191	3451	1207	3191	4715	1468
Grp Volume(v), veh/h	300	2886	183	945	768	411	1223	1268	617	1726	4475	233
Grp Sat Flow(s),veh/h/ln	1596	1641	1468	1596	1572	1680	1596	1572	1514	1596	1572	1468
Q Serve(g_s), s	11.1	37.0	8.7	11.0	27.5	27.6	14.0	37.0	37.0	19.0	42.0	14.7
Cycle Q Clear(g_c), s	11.1	37.0	8.7	11.0	27.5	27.6	14.0	37.0	37.0	19.0	42.0	14.7
Prop In Lane	1.00		1.00	1.00		0.16	1.00		0.80	1.00		1.00
Lane Grp Cap(c), veh/h	351	1012	453	293	912	487	372	969	467	505	1650	514
V/C Ratio(X)	0.85	2.85	0.40	3.23	0.84	0.84	3.28	1.31	1.32	3.42	2.71	0.45
Avail Cap(c_a), veh/h	372	1012	453	293	912	487	372	969	467	505	1650	514
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	0.82	0.82	0.82	0.09	0.09	0.09
Uniform Delay (d), s/veh	52.5	41.5	17.7	54.5	40.0	40.0	53.0	41.5	41.5	50.5	39.0	30.1
Incr Delay (d2), s/veh	16.7	836.2	0.6	1012.5	7.2	12.7	1033.8	144.8	156.8	1087.6	770.3	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.7	134.2	3.6	46.0	12.9	14.5	59.6	35.5	35.8	84.7	135.9	6.0
LnGrp Delay(d),s/veh	69.1	877.7	18.3	1067.0	47.2	52.8	1086.8	186.3	198.3	1138.1	809.3	30.4
LnGrp LOS	E	F	B	F	D	D	F	F	F	F	F	C
Approach Vol, veh/h		3369			2124			3108			6434	
Approach Delay, s/veh		759.0			502.0			543.0			869.3	
Approach LOS		F			F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	23.0	41.0	15.0	41.0	18.0	46.0	17.2	38.8
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	19.0	37.0	11.0	37.0	14.0	42.0	14.0	34.0
Max Q Clear Time (g_c+I1), s	12.1	39.0	13.0	39.0	16.0	44.0	13.1	29.6
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.1	3.4

Intersection Summary		
HCM 2010 Ctrl Delay	725.2	
HCM 2010 LOS	F	



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (veh/h)	63	1070	423	231	426	85
Number	7	4	8	18	1	16
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00			1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	68	1163	460	251	463	92
Adj No. of Lanes	2	2	2	1	2	2
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Opposing Right Turn Influence	Yes				Yes	
Cap, veh/h	1069	2484	2484	1111	563	456
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.76	0.76	0.76	0.76	0.18	0.18
Ln Grp Delay, s/veh	5.2	6.1	4.2	4.6	50.7	42.4
Ln Grp LOS	A	A	A	A	D	D
Approach Vol, veh/h		1231	711		555	
Approach Delay, s/veh		6.0	4.4		49.3	
Approach LOS		A	A		D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	6			4				8
Case No	9.0			6.0				7.0
Phs Duration (G+Y+Rc), s	25.2			94.8				94.8
Change Period (Y+Rc), s	4.0			4.0				4.0
Max Green (Gmax), s	42.0			70.0				70.0
Max Allow Headway (MAH), s	4.1			4.2				4.2
Max Q Clear (g_c+I1), s	18.8			18.0				8.0
Green Ext Time (g_e), s	2.4			13.1				13.4
Prob of Phs Call (p_c)	1.00			1.00				1.00
Prob of Max Out (p_x)	0.00			0.00				0.00

Left-Turn Movement Data								
Assigned Mvmt	1			7				3
Mvmt Sat Flow, veh/h	3191			1323				0

Through Movement Data								
Assigned Mvmt	6			4				8
Mvmt Sat Flow, veh/h	0			3368				3368

Right-Turn Movement Data								
Assigned Mvmt	16			14				18
Mvmt Sat Flow, veh/h	2584			0				1468

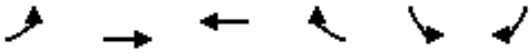
Left Lane Group Data								
Assigned Mvmt	1	0	0	7	0	0	0	3
Lane Assignment								
Lanes in Grp	2	0	0	2	0	0	0	0

Grp Vol (v), veh/h	463	0	0	68	0	0	0	0
Grp Sat Flow (s), veh/h/ln	1596	0	0	662	0	0	0	0
Q Serve Time (g_s), s	16.8	0.0	0.0	1.8	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	16.8	0.0	0.0	6.6	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	1596	0	0	662	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	90.8	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	86.1	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90.8
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	563	0	0	1069	0	0	0	0
V/C Ratio (X)	0.82	0.00	0.00	0.06	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	1117	0	0	1069	0	0	0	0
Upstream Filter (I)	1.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	47.6	0.0	0.0	5.1	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	3.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	50.7	0.0	0.0	5.2	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	7.4	0.0	0.0	0.3	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	7.6	0.0	0.0	0.3	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	1.04	0.00	0.00	0.03	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	6	0	0	4	0	0	0	8
Lane Assignment				T				T
Lanes in Grp	0	0	0	2	0	0	0	2
Grp Vol (v), veh/h	0	0	0	1163	0	0	0	460
Grp Sat Flow (s), veh/h/ln	0	0	0	1641	0	0	0	1641
Q Serve Time (g_s), s	0.0	0.0	0.0	16.0	0.0	0.0	0.0	4.8
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	16.0	0.0	0.0	0.0	4.8
Lane Grp Cap (c), veh/h	0	0	0	2484	0	0	0	2484
V/C Ratio (X)	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.19
Avail Cap (c_a), veh/h	0	0	0	2484	0	0	0	2484
Upstream Filter (I)	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.65
Uniform Delay (d1), s/veh	0.0	0.0	0.0	5.5	0.0	0.0	0.0	4.1
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	6.1	0.0	0.0	0.0	4.2
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	7.1	0.0	0.0	0.0	2.1
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	7.3	0.0	0.0	0.0	2.1
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	16	0	0	14	0	0	0	18
Lane Assignment	R							R
Lanes in Grp	2	0	0	0	0	0	0	1
Grp Vol (v), veh/h	92	0	0	0	0	0	0	251
Grp Sat Flow (s), veh/h/ln	1292	0	0	0	0	0	0	1468
Q Serve Time (g_s), s	3.6	0.0	0.0	0.0	0.0	0.0	0.0	6.0
Cycle Q Clear Time (g_c), s	3.6	0.0	0.0	0.0	0.0	0.0	0.0	6.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	456	0	0	0	0	0	0	1111
V/C Ratio (X)	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.23
Avail Cap (c_a), veh/h	904	0	0	0	0	0	0	1111
Upstream Filter (I)	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65
Uniform Delay (d1), s/veh	42.2	0.0	0.0	0.0	0.0	0.0	0.0	4.3
Incr Delay (d2), s/veh	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	42.4	0.0	0.0	0.0	0.0	0.0	0.0	4.6
1st-Term Q (Q1), veh/ln	1.3	0.0	0.0	0.0	0.0	0.0	0.0	2.4
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	1.3	0.0	0.0	0.0	0.0	0.0	0.0	2.5
%ile Storage Ratio (RQ%)	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.34
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	15.2
HCM 2010 LOS	B



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (veh/h)	63	1070	423	231	426	85
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	68	1163	460	251	463	92
Adj No. of Lanes	2	2	2	1	2	2
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Cap, veh/h	1069	2484	2484	1111	563	456
Arrive On Green	0.76	0.76	0.76	0.76	0.18	0.18
Sat Flow, veh/h	1323	3368	3368	1468	3191	2584
Grp Volume(v), veh/h	68	1163	460	251	463	92
Grp Sat Flow(s),veh/h/ln	662	1641	1641	1468	1596	1292
Q Serve(g_s), s	1.8	16.0	4.8	6.0	16.8	3.6
Cycle Q Clear(g_c), s	6.6	16.0	4.8	6.0	16.8	3.6
Prop In Lane	1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	1069	2484	2484	1111	563	456
V/C Ratio(X)	0.06	0.47	0.19	0.23	0.82	0.20
Avail Cap(c_a), veh/h	1069	2484	2484	1111	1117	904
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.88	0.88	0.65	0.65	1.00	1.00
Uniform Delay (d), s/veh	5.1	5.5	4.1	4.3	47.6	42.2
Incr Delay (d2), s/veh	0.1	0.6	0.1	0.3	3.1	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	7.3	2.1	2.5	7.6	1.3
LnGrp Delay(d),s/veh	5.2	6.1	4.2	4.6	50.7	42.4
LnGrp LOS	A	A	A	A	D	D
Approach Vol, veh/h		1231	711		555	
Approach Delay, s/veh		6.0	4.4		49.3	
Approach LOS		A	A		D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		8
Phs Duration (G+Y+Rc), s				94.8		25.2		94.8
Change Period (Y+Rc), s				4.0		4.0		4.0
Max Green Setting (Gmax), s				70.0		42.0		70.0
Max Q Clear Time (g_c+I1), s				18.0		18.8		8.0
Green Ext Time (p_c), s				13.1		2.4		13.4

Intersection Summary	
HCM 2010 Ctrl Delay	15.2
HCM 2010 LOS	B

Intersection	
Int Delay, s/veh	174.9

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	1691	49	45	606	169	161
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	0	-	0	-
Veh in Median Storage, #	0	-	-	0	1	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	1838	53	49	659	184	175

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	1891	0	2622	1865
Stage 1	-	-	-	-	1865	-
Stage 2	-	-	-	-	757	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	298	-	~ 25	~ 86
Stage 1	-	-	-	-	~ 128	-
Stage 2	-	-	-	-	449	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	298	-	~ 21	~ 86
Mov Cap-2 Maneuver	-	-	-	-	~ 94	-
Stage 1	-	-	-	-	~ 128	-
Stage 2	-	-	-	-	375	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.3	$ 1439.9
HCM LOS			F

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	90	-	-	298	-
HCM Lane V/C Ratio	3.986	-	-	0.164	-
HCM Control Delay (s)	$ 1439.9	-	-	19.4	-
HCM Lane LOS	F	-	-	C	-
HCM 95th %tile Q(veh)	37.2	-	-	0.6	-

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Intersection	
Int Delay, s/veh	2.1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	53	30	665	108	4	463
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	58	33	723	117	4	503

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1294	782	0	0	840	0
Stage 1	782	-	-	-	-	-
Stage 2	512	-	-	-	-	-
Critical Hdwy	6.5	6.3	-	-	4.2	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	-	-	2.29	-
Pot Cap-1 Maneuver	173	382	-	-	762	-
Stage 1	437	-	-	-	-	-
Stage 2	586	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	172	382	-	-	762	-
Mov Cap-2 Maneuver	172	-	-	-	-	-
Stage 1	437	-	-	-	-	-
Stage 2	582	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	33.3	0	0.1
HCM LOS	D		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	215	762	-
HCM Lane V/C Ratio	-	-	0.42	0.006	-
HCM Control Delay (s)	-	-	33.3	9.8	0
HCM Lane LOS	-	-	D	A	A
HCM 95th %tile Q(veh)	-	-	1.9	0	-

Intersection	
Int Delay, s/veh	1.7

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	90	763	165	8	30	17
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	98	829	179	9	33	18

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	188	0	-	0	1209	184
Stage 1	-	-	-	-	184	-
Stage 2	-	-	-	-	1025	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1339	-	-	-	195	838
Stage 1	-	-	-	-	829	-
Stage 2	-	-	-	-	334	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1339	-	-	-	168	838
Mov Cap-2 Maneuver	-	-	-	-	168	-
Stage 1	-	-	-	-	829	-
Stage 2	-	-	-	-	289	-

Approach	EB	WB	SB
HCM Control Delay, s	0.8	0	24.4
HCM LOS			C

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1339	-	-	-	236
HCM Lane V/C Ratio	0.073	-	-	-	0.216
HCM Control Delay (s)	7.9	0	-	-	24.4
HCM Lane LOS	A	A	-	-	C
HCM 95th %tile Q(veh)	0.2	-	-	-	0.8

Intersection	
Int Delay, s/veh	0.1

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	0	203	744	4	3	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	221	809	4	3	2

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	813	0	-	0	1032	811
Stage 1	-	-	-	-	811	-
Stage 2	-	-	-	-	221	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	780	-	-	-	249	367
Stage 1	-	-	-	-	424	-
Stage 2	-	-	-	-	797	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	780	-	-	-	249	367
Mov Cap-2 Maneuver	-	-	-	-	249	-
Stage 1	-	-	-	-	424	-
Stage 2	-	-	-	-	797	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	17.8
HCM LOS			C

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	780	-	-	-	286
HCM Lane V/C Ratio	-	-	-	-	0.019
HCM Control Delay (s)	0	-	-	-	17.8
HCM Lane LOS	A	-	-	-	C
HCM 95th %tile Q(veh)	0	-	-	-	0.1

Intersection	
Intersection Delay, s/veh	77.1
Intersection LOS	F

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	58	699	122	0	134	188	66	0	47	339	212
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	63	760	133	0	146	204	72	0	51	368	230
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	1	1	1
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	1	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	1	1
HCM Control Delay	78.4	78.5	77.8
HCM LOS	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	8%	7%	35%	41%
Vol Thru, %	57%	80%	48%	52%
Vol Right, %	35%	14%	17%	6%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	598	879	388	326
LT Vol	47	58	134	135
Through Vol	339	699	188	170
RT Vol	212	122	66	21
Lane Flow Rate	650	955	422	354
Geometry Grp	1	1	1	1
Degree of Util (X)	1	1	1	0.966
Departure Headway (Hd)	9.482	9.609	9.646	9.811
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	390	392	380	372
Service Time	7.482	7.609	7.646	7.811
HCM Lane V/C Ratio	1.667	2.436	1.111	0.952
HCM Control Delay	77.8	78.4	78.5	70.9
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	11.9	11.9	11.8	10.8

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	135	170	21
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10
Mvmt Flow	0	147	185	23
Number of Lanes	0	0	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	1
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	70.9
HCM LOS	F

Lane

Intersection	
Int Delay, s/veh	2.9

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	3	9	0	181	73	4
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	3	10	0	197	79	4

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	13	0	205	8
Stage 1	-	-	-	-	8	-
Stage 2	-	-	-	-	197	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	1555	-	766	1051
Stage 1	-	-	-	-	995	-
Stage 2	-	-	-	-	817	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1555	-	766	1051
Mov Cap-2 Maneuver	-	-	-	-	766	-
Stage 1	-	-	-	-	995	-
Stage 2	-	-	-	-	817	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	10.2
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	777	-	-	1555	-
HCM Lane V/C Ratio	0.108	-	-	-	-
HCM Control Delay (s)	10.2	-	-	0	-
HCM Lane LOS	B	-	-	A	-
HCM 95th %tile Q(veh)	0.4	-	-	0	-

Intersection	
Int Delay, s/veh	33.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	0	34	15	23	3	41	2	55	150	541	188	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	37	16	25	3	45	2	60	163	588	204	0

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	1550	1607	204	1553	1526	141	204	0	0	223	0	0
Stage 1	1380	1380	-	146	146	-	-	-	-	-	-	-
Stage 2	170	227	-	1407	1380	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.2	6.6	6.3	4.2	-	-	4.2	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.59	4.09	3.39	2.29	-	-	2.29	-	-
Pot Cap-1 Maneuver	89	101	817	88	113	886	1321	-	-	1300	-	-
Stage 1	171	204	-	838	761	-	-	-	-	-	-	-
Stage 2	813	701	-	165	204	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	48	49	817	~ 21	55	886	1321	-	-	1300	-	-
Mov Cap-2 Maneuver	48	49	-	~ 21	55	-	-	-	-	-	-	-
Stage 1	171	100	-	836	759	-	-	-	-	-	-	-
Stage 2	767	700	-	50	100	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	149.9	$ 342.3	0.1	7.4
HCM LOS	F	F		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1321	-	-	69	56	1300	-	-
HCM Lane V/C Ratio	0.002	-	-	0.772	1.3	0.452	-	-
HCM Control Delay (s)	7.7	0	-	149.9	$ 342.3	10	0	-
HCM Lane LOS	A	A	-	F	F	B	A	-
HCM 95th %tile Q(veh)	0	-	-	3.6	6.4	2.4	-	-

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Intersection	
Int Delay, s/veh	384.7

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	0	584	58	58	863	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	635	63	63	938	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	126	0	-	0	730	95
Stage 1	-	-	-	-	95	-
Stage 2	-	-	-	-	635	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1412	-	-	-	~ 378	940
Stage 1	-	-	-	-	~ 909	-
Stage 2	-	-	-	-	~ 513	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1412	-	-	-	~ 378	940
Mov Cap-2 Maneuver	-	-	-	-	~ 378	-
Stage 1	-	-	-	-	~ 909	-
Stage 2	-	-	-	-	~ 513	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	$ 696.8
HCM LOS			F

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1412	-	-	-	378
HCM Lane V/C Ratio	-	-	-	-	2.482
HCM Control Delay (s)	0	-	-	-	$ 696.8
HCM Lane LOS	A	-	-	-	F
HCM 95th %tile Q(veh)	0	-	-	-	74.7

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Intersection	
Intersection Delay, s/veh	58.5
Intersection LOS	F

Movement	EBU	EBL	EBR	NBU	NBL	NBT	SBU	SBT	SBR
Vol, veh/h	0	305	539	0	251	502	0	311	47
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	332	586	0	273	546	0	338	51
Number of Lanes	0	1	0	0	0	1	0	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	1	1
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	1	1	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	1	0	1
HCM Control Delay	64	65.9	29.7
HCM LOS	F	F	D

Lane	NBLn1	EBLn1	SBLn1
Vol Left, %	33%	36%	0%
Vol Thru, %	67%	0%	87%
Vol Right, %	0%	64%	13%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	753	844	358
LT Vol	251	305	0
Through Vol	502	0	311
RT Vol	0	539	47
Lane Flow Rate	818	917	389
Geometry Grp	1	1	1
Degree of Util (X)	1	1	0.766
Departure Headway (Hd)	6.871	6.494	7.088
Convergence, Y/N	Yes	Yes	Yes
Cap	532	560	514
Service Time	4.954	4.576	5.088
HCM Lane V/C Ratio	1.538	1.637	0.757
HCM Control Delay	65.9	64	29.7
HCM Lane LOS	F	F	D
HCM 95th-tile Q	13.9	14.3	6.8

Intersection	
Intersection Delay, s/veh	77.7
Intersection LOS	F

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Vol, veh/h	0	44	528	5	0	106	199	42	0	5	448	334	0	172	242	17
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	48	574	5	0	115	216	46	0	5	487	363	0	187	263	18
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	79.1	79	77.9	79.3
HCM LOS	F	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	1%	8%	31%	40%
Vol Thru, %	57%	92%	57%	56%
Vol Right, %	42%	1%	12%	4%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	787	577	347	431
LT Vol	5	44	106	172
Through Vol	448	528	199	242
RT Vol	334	5	42	17
Lane Flow Rate	855	627	377	468
Geometry Grp	1	1	1	1
Degree of Util (X)	1	1	1	1
Departure Headway (Hd)	9.491	9.754	9.756	9.8
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	394	376	373	375
Service Time	7.514	7.777	7.756	7.823
HCM Lane V/C Ratio	2.17	1.668	1.011	1.248
HCM Control Delay	77.9	79.1	79	79.3
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	11.9	11.8	11.8	11.7

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	0	0	0	289	125	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	0	0	314	136	0

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	450	136	136	0	-	0
Stage 1	136	-	-	-	-	-
Stage 2	314	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	552	892	1400	-	-	-
Stage 1	871	-	-	-	-	-
Stage 2	723	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	552	892	1400	-	-	-
Mov Cap-2 Maneuver	552	-	-	-	-	-
Stage 1	871	-	-	-	-	-
Stage 2	723	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	0	0	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1400	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	0	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	-	-	-

Intersection	
Int Delay, s/veh	0.5

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	20	2	0	261	393	9
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	22	2	0	284	427	10

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	716	432	437	0	-	0
Stage 1	432	-	-	-	-	-
Stage 2	284	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	385	607	1081	-	-	-
Stage 1	638	-	-	-	-	-
Stage 2	746	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	385	607	1081	-	-	-
Mov Cap-2 Maneuver	385	-	-	-	-	-
Stage 1	638	-	-	-	-	-
Stage 2	746	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	14.6	0	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1081	-	398	-	-
HCM Lane V/C Ratio	-	-	0.06	-	-
HCM Control Delay (s)	0	-	14.6	-	-
HCM Lane LOS	A	-	B	-	-
HCM 95th %tile Q(veh)	0	-	0.2	-	-

Intersection	
Intersection Delay, s/veh	11.6
Intersection LOS	B

Movement	EBU	EBL	EBR	NBU	NBL	NBT	SBU	SBT	SBR
Vol, veh/h	0	394	0	0	12	0	0	0	86
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	428	0	0	13	0	0	0	93
Number of Lanes	0	1	0	0	0	1	0	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	1	1
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	1	1	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	1	0	1
HCM Control Delay	12.5	8.6	8.1
HCM LOS	B	A	A

Lane	NBLn1	EBLn1	SBLn1
Vol Left, %	100%	100%	0%
Vol Thru, %	0%	0%	0%
Vol Right, %	0%	0%	100%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	12	394	86
LT Vol	12	394	0
Through Vol	0	0	0
RT Vol	0	0	86
Lane Flow Rate	13	428	93
Geometry Grp	1	1	1
Degree of Util (X)	0.02	0.53	0.118
Departure Headway (Hd)	5.436	4.455	4.531
Convergence, Y/N	Yes	Yes	Yes
Cap	661	801	796
Service Time	3.445	2.539	2.532
HCM Lane V/C Ratio	0.02	0.534	0.117
HCM Control Delay	8.6	12.5	8.1
HCM Lane LOS	A	B	A
HCM 95th-tile Q	0.1	3.2	0.4

Intersection	
Int Delay, s/veh	0.1

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	0	3	2	176	313	4
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	3	2	191	340	4

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	538	342	345	0	-	0
Stage 1	342	-	-	-	-	-
Stage 2	196	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	491	683	1171	-	-	-
Stage 1	702	-	-	-	-	-
Stage 2	818	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	490	683	1171	-	-	-
Mov Cap-2 Maneuver	490	-	-	-	-	-
Stage 1	702	-	-	-	-	-
Stage 2	816	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	10.3	0.1	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1171	-	683	-	-
HCM Lane V/C Ratio	0.002	-	0.005	-	-
HCM Control Delay (s)	8.1	0	10.3	-	-
HCM Lane LOS	A	A	B	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Intersection	
Int Delay, s/veh	39.2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	104	23	967	549	74	289
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	113	25	1051	597	80	314

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1824	1349	0	0	1648	0
Stage 1	1349	-	-	-	-	-
Stage 2	475	-	-	-	-	-
Critical Hdwy	6.5	6.3	-	-	4.2	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	-	-	2.29	-
Pot Cap-1 Maneuver	~ 81	177	-	-	371	-
Stage 1	232	-	-	-	-	-
Stage 2	609	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	~ 60	177	-	-	371	-
Mov Cap-2 Maneuver	~ 60	-	-	-	-	-
Stage 1	232	-	-	-	-	-
Stage 2	450	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	$ 609.2	0	3.5
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	68	371	-
HCM Lane V/C Ratio	-	-	2.03	0.217	-
HCM Control Delay (s)	-	-	$ 609.2	17.4	0
HCM Lane LOS	-	-	F	C	A
HCM 95th %tile Q(veh)	-	-	12.8	0.8	-

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Intersection	
Int Delay, s/veh	6.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	30	2196	4	38	752	35	0	4	22	45	0	29
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	253	-	-	248	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	33	2387	4	41	817	38	0	4	24	49	0	32

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	855	0	0	2391	0	0	3389	3392	2389	3387	3376	836
Stage 1	-	-	-	-	-	-	2454	2454	-	919	919	-
Stage 2	-	-	-	-	-	-	935	938	-	2468	2457	-
Critical Hdwy	4.2	-	-	4.2	-	-	7.2	6.6	6.3	7.2	6.6	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.59	4.09	3.39	3.59	4.09	3.39
Pot Cap-1 Maneuver	752	-	-	188	-	-	4	7	41	~ 4	7	355
Stage 1	-	-	-	-	-	-	39	57	-	315	340	-
Stage 2	-	-	-	-	-	-	308	333	-	~ 38	57	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	752	-	-	188	-	-	3	5	41	0	5	355
Mov Cap-2 Maneuver	-	-	-	-	-	-	3	5	-	0	5	-
Stage 1	-	-	-	-	-	-	37	54	-	301	266	-
Stage 2	-	-	-	-	-	-	219	260	-	~ 14	54	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.1	1.4	$ 676.8	18.1
HCM LOS			F	C

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	19	752	-	-	188	-	-	355
HCM Lane V/C Ratio	1.487	0.043	-	-	0.22	-	-	0.227
HCM Control Delay (s)	$ 676.8	10	-	-	29.5	-	-	18.1
HCM Lane LOS	F	B	-	-	D	-	-	C
HCM 95th %tile Q(veh)	3.9	0.1	-	-	0.8	-	-	0.9

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	1022	1109	12	26	390	2	33	67	50	5	41	395
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	1111	1205	13	28	424	2	36	73	54	5	45	429
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	814	1145	12	55	360	2	44	88	65	108	19	181
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.49	0.67	0.67	0.03	0.21	0.21	0.03	0.10	0.10	0.07	0.13	0.13
Ln Grp Delay, s/veh	202.0	0.0	61.1	64.0	0.0	151.9	108.5	0.0	69.4	52.4	0.0	683.7
Ln Grp LOS	F		F	E		F	F		E	D		F
Approach Vol, veh/h		2329			454			163			479	
Approach Delay, s/veh		128.3			146.4			78.0			677.1	
Approach LOS		F			F			E			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	6	5	7	8
Case No	4.0	2.0	4.0	2.0	4.0	2.0	2.0	4.0
Phs Duration (G+Y+Rc), s	15.4	11.8	84.0	8.0	20.0	7.2	63.0	29.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	16.0	4.0	80.0	4.0	16.0	4.0	59.0	25.0
Max Allow Headway (MAH), s	4.2	4.1	4.0	4.0	4.3	4.1	4.1	4.0
Max Q Clear (g_c+I1), s	11.3	2.3	82.0	4.0	18.0	4.6	61.0	27.0
Green Ext Time (g_e), s	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prob of Phs Call (p_c)	1.00	0.15	1.00	0.60	1.00	0.70	1.00	1.00
Prob of Max Out (p_x)	0.60	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt		1		3		5	7	
Mvmt Sat Flow, veh/h		1645		1645		1645	1645	

Through Movement Data								
Assigned Mvmt	2		4		6			8
Mvmt Sat Flow, veh/h	924		1706		141			1718

Right-Turn Movement Data								
Assigned Mvmt	12		14		16			18
Mvmt Sat Flow, veh/h	683		18		1348			8

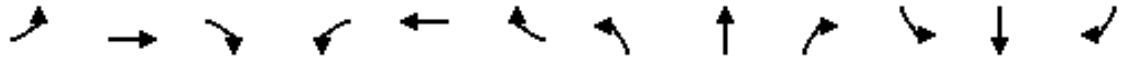
Left Lane Group Data								
Assigned Mvmt	0	1	0	3	0	5	7	0
Lane Assignment		(Prot)		(Prot)		(Prot)	(Prot)	
Lanes in Grp	0	1	0	1	0	1	1	0

Grp Vol (v), veh/h	0	5	0	28	0	36	1111	0
Grp Sat Flow (s), veh/h/ln	0	1645	0	1645	0	1645	1645	0
Q Serve Time (g_s), s	0.0	0.3	0.0	2.0	0.0	2.6	59.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.3	0.0	2.0	0.0	2.6	59.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	108	0	55	0	44	814	0
V/C Ratio (X)	0.00	0.05	0.00	0.51	0.00	0.82	1.36	0.00
Avail Cap (c_a), veh/h	0	108	0	55	0	55	814	0
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	52.2	0.0	56.6	0.0	57.7	30.1	0.0
Incr Delay (d2), s/veh	0.0	0.2	0.0	7.4	0.0	50.7	171.9	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	52.4	0.0	64.0	0.0	108.5	202.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.2	0.0	0.9	0.0	1.2	26.7	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.1	0.0	0.6	38.9	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.2	0.0	1.0	0.0	1.8	65.6	0.0
%ile Storage Ratio (RQ%)	0.00	0.02	0.00	0.15	0.00	0.80	6.81	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	74.2	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	6	0	0	8
Lane Assignment								
Lanes in Grp	0	0	0	0	0	0	0	0
Grp Vol (v), veh/h	0	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	16	0	0	18
Lane Assignment	T+R		T+R		T+R			T+R
Lanes in Grp	1	0	1	0	1	0	0	1
Grp Vol (v), veh/h	127	0	1218	0	474	0	0	426
Grp Sat Flow (s), veh/h/ln	1607	0	1724	0	1489	0	0	1726
Q Serve Time (g_s), s	9.3	0.0	80.0	0.0	16.0	0.0	0.0	25.0
Cycle Q Clear Time (g_c), s	9.3	0.0	80.0	0.0	16.0	0.0	0.0	25.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.43	0.00	0.01	0.00	0.91	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	154	0	1157	0	200	0	0	362
V/C Ratio (X)	0.83	0.00	1.05	0.00	2.37	0.00	0.00	1.18
Avail Cap (c_a), veh/h	216	0	1157	0	200	0	0	362
Upstream Filter (I)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	52.9	0.0	19.6	0.0	51.6	0.0	0.0	47.1
Incr Delay (d2), s/veh	16.5	0.0	41.5	0.0	632.1	0.0	0.0	104.8
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	69.4	0.0	61.1	0.0	683.7	0.0	0.0	151.9
1st-Term Q (Q1), veh/ln	4.1	0.0	37.6	0.0	6.6	0.0	0.0	11.9
2nd-Term Q (Q2), veh/ln	0.7	0.0	13.3	0.0	35.1	0.0	0.0	10.5
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	4.8	0.0	50.9	0.0	41.7	0.0	0.0	22.4
%ile Storage Ratio (RQ%)	0.01	0.00	0.09	0.00	0.16	0.00	0.00	0.15
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	15.2	0.0	68.5	0.0	0.0	16.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.3	0.0	0.6	0.0	0.0	0.3

Intersection Summary	
HCM 2010 Ctrl Delay	205.1
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	1022	1109	12	26	390	2	33	67	50	5	41	395
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	1111	1205	13	28	424	2	36	73	54	5	45	429
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	814	1145	12	55	360	2	44	88	65	108	19	181
Arrive On Green	0.49	0.67	0.67	0.03	0.21	0.21	0.03	0.10	0.10	0.07	0.13	0.13
Sat Flow, veh/h	1645	1706	18	1645	1718	8	1645	924	683	1645	141	1348
Grp Volume(v), veh/h	1111	0	1218	28	0	426	36	0	127	5	0	474
Grp Sat Flow(s),veh/h/ln	1645	0	1724	1645	0	1726	1645	0	1607	1645	0	1489
Q Serve(g_s), s	59.0	0.0	80.0	2.0	0.0	25.0	2.6	0.0	9.3	0.3	0.0	16.0
Cycle Q Clear(g_c), s	59.0	0.0	80.0	2.0	0.0	25.0	2.6	0.0	9.3	0.3	0.0	16.0
Prop In Lane	1.00		0.01	1.00		0.00	1.00		0.43	1.00		0.91
Lane Grp Cap(c), veh/h	814	0	1157	55	0	362	44	0	154	108	0	200
V/C Ratio(X)	1.36	0.00	1.05	0.51	0.00	1.18	0.82	0.00	0.83	0.05	0.00	2.37
Avail Cap(c_a), veh/h	814	0	1157	55	0	362	55	0	216	108	0	200
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	30.1	0.0	19.6	56.6	0.0	47.1	57.7	0.0	52.9	52.2	0.0	51.6
Incr Delay (d2), s/veh	171.9	0.0	41.5	7.4	0.0	104.8	50.7	0.0	16.5	0.2	0.0	632.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	65.6	0.0	50.9	1.0	0.0	22.4	1.8	0.0	4.8	0.2	0.0	41.7
LnGrp Delay(d),s/veh	202.0	0.0	61.1	64.0	0.0	151.9	108.5	0.0	69.4	52.4	0.0	683.7
LnGrp LOS	F		F	E		F	F		E	D		F
Approach Vol, veh/h		2329			454			163			479	
Approach Delay, s/veh		128.3			146.4			78.0			677.1	
Approach LOS		F			F			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.8	15.4	8.0	84.0	7.2	20.0	63.0	29.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	4.0	16.0	4.0	80.0	4.0	16.0	59.0	25.0
Max Q Clear Time (g_c+I1), s	2.3	11.3	4.0	82.0	4.6	18.0	61.0	27.0
Green Ext Time (p_c), s	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	205.1
HCM 2010 LOS	F

Intersection	
Int Delay, s/veh	3

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	92	1610	668	6	12	137
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	Yield
Storage Length	90	-	-	-	0	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	100	1750	726	7	13	149

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	733	0	-	0	2679	729
Stage 1	-	-	-	-	729	-
Stage 2	-	-	-	-	1950	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	836	-	-	-	23	410
Stage 1	-	-	-	-	463	-
Stage 2	-	-	-	-	116	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	836	-	-	-	20	410
Mov Cap-2 Maneuver	-	-	-	-	20	-
Stage 1	-	-	-	-	463	-
Stage 2	-	-	-	-	102	-

Approach	EB	WB	SB
HCM Control Delay, s	0.5	0	45.3
HCM LOS			E

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1	SBLn2
Capacity (veh/h)	836	-	-	-	20	410
HCM Lane V/C Ratio	0.12	-	-	-	0.652	0.363
HCM Control Delay (s)	9.9	-	-	$	349.5	18.7
HCM Lane LOS	A	-	-	-	F	C
HCM 95th %tile Q(veh)	0.4	-	-	-	1.8	1.6

Intersection	
Intersection Delay, s/veh	11.1
Intersection LOS	B

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	2	41	20	0	2	35	38	0	10	113	3
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	2	45	22	0	2	38	41	0	11	123	3
Number of Lanes	0	1	1	0	0	0	1	1	0	1	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	2	2	2
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	2	2	2
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	2	2	2
HCM Control Delay	9.4	9	9.5
HCM LOS	A	A	A

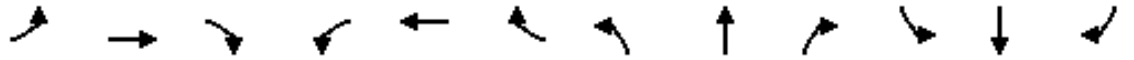
Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1	SBLn2
Vol Left, %	100%	0%	100%	0%	5%	0%	100%	0%
Vol Thru, %	0%	97%	0%	67%	95%	0%	0%	99%
Vol Right, %	0%	3%	0%	33%	0%	100%	0%	1%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	10	116	2	61	37	38	67	312
LT Vol	10	0	2	0	2	0	67	0
Through Vol	0	113	0	41	35	0	0	310
RT Vol	0	3	0	20	0	38	0	2
Lane Flow Rate	11	126	2	66	40	41	73	339
Geometry Grp	7	7	7	7	7	7	7	7
Degree of Util (X)	0.018	0.192	0.004	0.109	0.069	0.062	0.116	0.492
Departure Headway (Hd)	6.008	5.486	6.67	5.933	6.176	5.442	5.726	5.219
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	593	651	534	600	576	653	624	688
Service Time	3.776	3.254	4.448	3.71	3.951	3.216	3.478	2.971
HCM Lane V/C Ratio	0.019	0.194	0.004	0.11	0.069	0.063	0.117	0.493
HCM Control Delay	8.9	9.6	9.5	9.4	9.4	8.6	9.2	13
HCM Lane LOS	A	A	A	A	A	A	A	B
HCM 95th-tile Q	0.1	0.7	0	0.4	0.2	0.2	0.4	2.7

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	67	310	2
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10
Mvmt Flow	0	73	337	2
Number of Lanes	0	1	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	2
Conflicting Approach Left	WB
Conflicting Lanes Left	2
Conflicting Approach Right	EB
Conflicting Lanes Right	2
HCM Control Delay	12.3
HCM LOS	B

Lane



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	44	318	0	79	220	138	6	256	61	87	267	40
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	48	346	0	86	239	150	7	278	66	95	290	43
Adj No. of Lanes	1	1	0	1	1	0	1	2	1	1	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	59	426	0	109	275	172	12	374	167	651	1650	738
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.04	0.25	0.00	0.07	0.28	0.28	0.01	0.11	0.11	0.40	0.50	0.50
Ln Grp Delay, s/veh	65.4	37.9	0.0	53.5	0.0	41.0	84.7	51.1	32.0	17.5	12.4	11.6
Ln Grp LOS	E	D		D		D	F	D	C	B	B	B
Approach Vol, veh/h		394			475			351			428	
Approach Delay, s/veh		41.2			43.2			48.2			13.5	
Approach LOS		D			D			D			B	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	5	6	7	8
Case No	3.0	2.0	2.0	4.0	2.0	3.0	2.0	4.0
Phs Duration (G+Y+Rc), s	14.3	39.6	9.9	26.2	4.6	49.2	7.2	28.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	18.0	13.0	12.0	31.0	6.0	25.0	9.0	34.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	9.4	5.3	6.6	19.0	2.4	6.3	4.6	22.6
Green Ext Time (g_e), s	0.9	1.0	0.1	2.3	0.0	1.5	0.0	2.2
Prob of Phs Call (p_c)	1.00	0.91	0.88	1.00	0.16	1.00	0.70	1.00
Prob of Max Out (p_x)	0.08	0.18	0.28	0.11	1.00	0.00	0.70	0.13

Left-Turn Movement Data								
Assigned Mvmt		1	3		5		7	
Mvmt Sat Flow, veh/h		1645	1645		1645		1645	

Through Movement Data								
Assigned Mvmt	2			4		6		8
Mvmt Sat Flow, veh/h	3282			1727		3282		994

Right-Turn Movement Data								
Assigned Mvmt	12			14		16		18
Mvmt Sat Flow, veh/h	1468			0		1468		624

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	5	0	7	0
Lane Assignment		(Prot)	(Prot)		(Prot)		(Prot)	
Lanes in Grp	0	1	1	0	1	0	1	0

Grp Vol (v), veh/h	0	95	86	0	7	0	48	0
Grp Sat Flow (s), veh/h/ln	0	1645	1645	0	1645	0	1645	0
Q Serve Time (g_s), s	0.0	3.3	4.6	0.0	0.4	0.0	2.6	0.0
Cycle Q Clear Time (g_c), s	0.0	3.3	4.6	0.0	0.4	0.0	2.6	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	651	109	0	12	0	59	0
V/C Ratio (X)	0.00	0.15	0.79	0.00	0.60	0.00	0.81	0.00
Avail Cap (c_a), veh/h	0	651	219	0	110	0	165	0
Upstream Filter (I)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	17.4	41.4	0.0	44.5	0.0	43.1	0.0
Incr Delay (d2), s/veh	0.0	0.1	12.1	0.0	40.1	0.0	22.3	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	17.5	53.5	0.0	84.7	0.0	65.4	0.0
1st-Term Q (Q1), veh/ln	0.0	1.5	2.1	0.0	0.2	0.0	1.2	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.4	0.0	0.1	0.0	0.4	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	1.5	2.5	0.0	0.3	0.0	1.6	0.0
%ile Storage Ratio (RQ%)	0.00	0.18	0.37	0.00	0.20	0.00	0.47	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	0	6	0	8
Lane Assignment	T			T		T		
Lanes in Grp	2	0	0	1	0	2	0	0
Grp Vol (v), veh/h	278	0	0	346	0	290	0	0
Grp Sat Flow (s), veh/h/ln	1641	0	0	1727	0	1641	0	0
Q Serve Time (g_s), s	7.4	0.0	0.0	17.0	0.0	4.3	0.0	0.0
Cycle Q Clear Time (g_c), s	7.4	0.0	0.0	17.0	0.0	4.3	0.0	0.0
Lane Grp Cap (c), veh/h	374	0	0	426	0	1650	0	0
V/C Ratio (X)	0.74	0.00	0.00	0.81	0.00	0.18	0.00	0.00
Avail Cap (c_a), veh/h	656	0	0	595	0	1650	0	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00
Uniform Delay (d1), s/veh	38.6	0.0	0.0	32.0	0.0	12.2	0.0	0.0
Incr Delay (d2), s/veh	12.5	0.0	0.0	5.9	0.0	0.2	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	51.1	0.0	0.0	37.9	0.0	12.4	0.0	0.0
1st-Term Q (Q1), veh/ln	3.4	0.0	0.0	8.1	0.0	2.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.7	0.0	0.0	0.7	0.0	0.1	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	4.0	0.0	0.0	8.8	0.0	2.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.14	0.00	0.00	0.36	0.00	0.01	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	0	14	0	16	0	18
Lane Assignment	R					R		T+R
Lanes in Grp	1	0	0	0	0	1	0	1
Grp Vol (v), veh/h	66	0	0	0	0	43	0	389
Grp Sat Flow (s), veh/h/ln	1468	0	0	0	0	1468	0	1617
Q Serve Time (g_s), s	3.1	0.0	0.0	0.0	0.0	1.4	0.0	20.6
Cycle Q Clear Time (g_c), s	3.1	0.0	0.0	0.0	0.0	1.4	0.0	20.6
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.39
Lane Grp Cap (c), veh/h	167	0	0	0	0	738	0	447
V/C Ratio (X)	0.39	0.00	0.00	0.00	0.00	0.06	0.00	0.87
Avail Cap (c_a), veh/h	294	0	0	0	0	738	0	611
Upstream Filter (I)	1.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	25.2	0.0	0.0	0.0	0.0	11.5	0.0	31.0
Incr Delay (d2), s/veh	6.8	0.0	0.0	0.0	0.0	0.2	0.0	9.9
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	32.0	0.0	0.0	0.0	0.0	11.6	0.0	41.0
1st-Term Q (Q1), veh/ln	1.3	0.0	0.0	0.0	0.0	0.5	0.0	9.2
2nd-Term Q (Q2), veh/ln	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.2
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	1.6	0.0	0.0	0.0	0.0	0.6	0.0	10.4
%ile Storage Ratio (RQ%)	0.25	0.00	0.00	0.00	0.00	0.38	0.00	0.03
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	36.1
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	44	318	0	79	220	138	6	256	61	87	267	40
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	48	346	0	86	239	150	7	278	66	95	290	43
Adj No. of Lanes	1	1	0	1	1	0	1	2	1	1	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	59	426	0	109	275	172	12	374	167	651	1650	738
Arrive On Green	0.04	0.25	0.00	0.07	0.28	0.28	0.01	0.11	0.11	0.40	0.50	0.50
Sat Flow, veh/h	1645	1727	0	1645	994	624	1645	3282	1468	1645	3282	1468
Grp Volume(v), veh/h	48	346	0	86	0	389	7	278	66	95	290	43
Grp Sat Flow(s),veh/h/ln	1645	1727	0	1645	0	1617	1645	1641	1468	1645	1641	1468
Q Serve(g_s), s	2.6	17.0	0.0	4.6	0.0	20.6	0.4	7.4	3.1	3.3	4.3	1.4
Cycle Q Clear(g_c), s	2.6	17.0	0.0	4.6	0.0	20.6	0.4	7.4	3.1	3.3	4.3	1.4
Prop In Lane	1.00		0.00	1.00		0.39	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	59	426	0	109	0	447	12	374	167	651	1650	738
V/C Ratio(X)	0.81	0.81	0.00	0.79	0.00	0.87	0.60	0.74	0.39	0.15	0.18	0.06
Avail Cap(c_a), veh/h	165	595	0	219	0	611	110	656	294	651	1650	738
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	43.1	32.0	0.0	41.4	0.0	31.0	44.5	38.6	25.2	17.4	12.2	11.5
Incr Delay (d2), s/veh	22.3	5.9	0.0	12.1	0.0	9.9	40.1	12.5	6.8	0.1	0.2	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.6	8.8	0.0	2.5	0.0	10.4	0.3	4.0	1.6	1.5	2.0	0.6
LnGrp Delay(d),s/veh	65.4	37.9	0.0	53.5	0.0	41.0	84.7	51.1	32.0	17.5	12.4	11.6
LnGrp LOS	E	D		D		D	F	D	C	B	B	B
Approach Vol, veh/h		394			475			351			428	
Approach Delay, s/veh		41.2			43.2			48.2			13.5	
Approach LOS		D			D			D			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	39.6	14.3	9.9	26.2	4.6	49.2	7.2	28.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	31.0	18.0	12.0	31.0	6.0	25.0	9.0	34.0
Max Q Clear Time (g_c+I1), s	5.3	9.4	6.6	19.0	2.4	6.3	4.6	22.6
Green Ext Time (p_c), s	1.0	0.9	0.1	2.3	0.0	1.5	0.0	2.2

Intersection Summary	
HCM 2010 Ctrl Delay	36.1
HCM 2010 LOS	D

Intersection	
Int Delay, s/veh	1.1

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	0	21	31	217	115	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	28	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	23	34	236	125	2

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	429	126	127	0	-	0
Stage 1	126	-	-	-	-	-
Stage 2	303	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	568	903	1411	-	-	-
Stage 1	880	-	-	-	-	-
Stage 2	731	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	554	903	1411	-	-	-
Mov Cap-2 Maneuver	554	-	-	-	-	-
Stage 1	880	-	-	-	-	-
Stage 2	713	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	9.1	1	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1411	-	903	-	-
HCM Lane V/C Ratio	0.024	-	0.025	-	-
HCM Control Delay (s)	7.6	-	9.1	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0.1	-	0.1	-	-

Intersection	
Int Delay, s/veh	75.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	288	8	127	40	9	80	30	249	7	13	251	47
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	313	9	138	43	10	87	33	271	8	14	273	51

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	715	670	298	740	692	274	324	0	0	278	0	0
Stage 1	327	327	-	340	340	-	-	-	-	-	-	-
Stage 2	388	343	-	400	352	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.2	6.6	6.3	4.2	-	-	4.2	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.59	4.09	3.39	2.29	-	-	2.29	-	-
Pot Cap-1 Maneuver	336	368	723	323	357	746	1192	-	-	1240	-	-
Stage 1	669	634	-	658	625	-	-	-	-	-	-	-
Stage 2	620	623	-	611	618	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	~ 280	351	723	247	340	746	1192	-	-	1240	-	-
Mov Cap-2 Maneuver	~ 280	351	-	247	340	-	-	-	-	-	-	-
Stage 1	647	625	-	636	604	-	-	-	-	-	-	-
Stage 2	521	602	-	481	609	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	199.2	17.1	0.9	0.3
HCM LOS	F	C		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1192	-	-	345	436	1240	-	-
HCM Lane V/C Ratio	0.027	-	-	1.333	0.322	0.011	-	-
HCM Control Delay (s)	8.1	0	-	199.2	17.1	7.9	0	-
HCM Lane LOS	A	A	-	F	C	A	A	-
HCM 95th %tile Q(veh)	0.1	-	-	22.1	1.4	0	-	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Intersection	
Intersection Delay, s/veh	47.1
Intersection LOS	E

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	15	14	11	0	57	46	205	0	13	269	152
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	16	15	12	0	62	50	223	0	14	292	165
Number of Lanes	0	0	1	0	0	0	1	1	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	2	1	1
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	1	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	1	2
HCM Control Delay	12.2	14.4	29.6
HCM LOS	B	B	D

Lane	NBLn1	EBLn1	WBLn1	WBLn2	SBLn1
Vol Left, %	3%	38%	55%	0%	57%
Vol Thru, %	62%	35%	45%	0%	42%
Vol Right, %	35%	28%	0%	100%	1%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	434	40	103	205	1196
LT Vol	13	15	57	0	678
Through Vol	269	14	46	0	504
RT Vol	152	11	0	205	14
Lane Flow Rate	472	43	112	223	1300
Geometry Grp	2	5	7	7	2
Degree of Util (X)	0.8	0.1	0.248	0.434	1
Departure Headway (Hd)	6.233	8.248	7.99	7.013	6.379
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	585	436	452	517	585
Service Time	4.233	6.269	5.695	4.719	4.407
HCM Lane V/C Ratio	0.807	0.099	0.248	0.431	2.222
HCM Control Delay	29.6	12.2	13.3	15	63.1
HCM Lane LOS	D	B	B	B	F
HCM 95th-tile Q	7.8	0.3	1	2.2	14.5

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	678	504	14
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10
Mvmt Flow	0	737	548	15
Number of Lanes	0	0	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	2
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	63.1
HCM LOS	F

Lane



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Volume (veh/h)	866	40	15	688	477	293
Number	7	14	5	2	6	16
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00	1.00	1.00			1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1900	1727	1727	1727	1727
Adj Flow Rate, veh/h	941	43	16	748	518	318
Adj No. of Lanes	0	0	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	10	10	10	10
Opposing Right Turn Influence	Yes		Yes			
Cap, veh/h	799	37	73	691	537	457
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.51	0.51	0.04	0.40	0.31	0.31
Ln Grp Delay, s/veh	114.3	0.0	43.0	85.8	61.4	35.8
Ln Grp LOS	F		D	F	E	D
Approach Vol, veh/h	985			764	836	
Approach Delay, s/veh	114.3			84.9	51.6	
Approach LOS	F			F	D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2		4	6	5		
Case No		4.0		12.0	7.0	2.0		
Phs Duration (G+Y+Rc), s		40.0		50.0	32.0	8.0		
Change Period (Y+Rc), s		4.0		4.0	4.0	4.0		
Max Green (Gmax), s		36.0		46.0	28.0	4.0		
Max Allow Headway (MAH), s		4.0		4.1	4.1	4.0		
Max Q Clear (g_c+I1), s		38.0		48.0	28.6	2.8		
Green Ext Time (g_e), s		0.0		0.0	0.0	0.5		
Prob of Phs Call (p_c)		1.00		1.00	1.00	0.33		
Prob of Max Out (p_x)		1.00		1.00	1.00	1.00		

Left-Turn Movement Data								
Assigned Mvmt				7	1	5		
Mvmt Sat Flow, veh/h				1563	0	1645		

Through Movement Data								
Assigned Mvmt		2		4	6			
Mvmt Sat Flow, veh/h		1727		2	1727			

Right-Turn Movement Data								
Assigned Mvmt		12		14	16			
Mvmt Sat Flow, veh/h		0		71	1468			

Left Lane Group Data								
Assigned Mvmt	0	0	0	7	1	5	0	0
Lane Assignment				L+T+R		(Prot)		
Lanes in Grp	0	0	0	1	0	1	0	0

Grp Vol (v), veh/h	0	0	0	985	0	16	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1636	0	1645	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	46.0	0.0	0.8	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	46.0	0.0	0.8	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	28.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.00	0.00	0.96	0.00	1.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	0	0	836	0	73	0	0
V/C Ratio (X)	0.00	0.00	0.00	1.18	0.00	0.22	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	836	0	73	0	0
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	22.0	0.0	41.5	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	92.3	0.0	1.5	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	114.3	0.0	43.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	20.4	0.0	0.4	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	21.4	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	41.9	0.0	0.4	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.10	0.00	0.10	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	37.1	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	6	0	0	0
Lane Assignment		T			T			
Lanes in Grp	0	1	0	0	1	0	0	0
Grp Vol (v), veh/h	0	748	0	0	518	0	0	0
Grp Sat Flow (s), veh/h/ln	0	1727	0	0	1727	0	0	0
Q Serve Time (g_s), s	0.0	36.0	0.0	0.0	26.6	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	36.0	0.0	0.0	26.6	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	691	0	0	537	0	0	0
V/C Ratio (X)	0.00	1.08	0.00	0.00	0.96	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	691	0	0	537	0	0	0
Upstream Filter (I)	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	27.0	0.0	0.0	30.5	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	58.8	0.0	0.0	30.9	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	85.8	0.0	0.0	61.4	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	17.1	0.0	0.0	12.7	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	11.3	0.0	0.0	4.6	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	28.4	0.0	0.0	17.3	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.15	0.00	0.00	0.25	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	14.3	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data

Assigned Mvmt	0	12	0	14	16	0	0	0
Lane Assignment					R			
Lanes in Grp	0	0	0	0	1	0	0	0
Grp Vol (v), veh/h	0	0	0	0	318	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	1468	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	17.1	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	17.1	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.00	0.00	0.04	1.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	0	0	0	457	0	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	0	457	0	0	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	27.3	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	8.5	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	35.8	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	8.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	4.39	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary

HCM 2010 Ctrl Delay	85.3
HCM 2010 LOS	F

Notes

User approved volume balancing among the lanes for turning movement.



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Volume (veh/h)	866	40	15	688	477	293
Number	7	14	5	2	6	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00			1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1900	1727	1727	1727	1727
Adj Flow Rate, veh/h	941	43	16	748	518	318
Adj No. of Lanes	0	0	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	10	10	10	10
Cap, veh/h	799	37	73	691	537	457
Arrive On Green	0.51	0.51	0.04	0.40	0.31	0.31
Sat Flow, veh/h	1563	71	1645	1727	1727	1468
Grp Volume(v), veh/h	985	0	16	748	518	318
Grp Sat Flow(s),veh/h/ln	1636	0	1645	1727	1727	1468
Q Serve(g_s), s	46.0	0.0	0.8	36.0	26.6	17.1
Cycle Q Clear(g_c), s	46.0	0.0	0.8	36.0	26.6	17.1
Prop In Lane	0.96	0.04	1.00			1.00
Lane Grp Cap(c), veh/h	836	0	73	691	537	457
V/C Ratio(X)	1.18	0.00	0.22	1.08	0.96	0.70
Avail Cap(c_a), veh/h	836	0	73	691	537	457
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	22.0	0.0	41.5	27.0	30.5	27.3
Incr Delay (d2), s/veh	92.3	0.0	1.5	58.8	30.9	8.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	41.9	0.0	0.4	28.4	17.3	8.0
LnGrp Delay(d),s/veh	114.3	0.0	43.0	85.8	61.4	35.8
LnGrp LOS	F		D	F	E	D
Approach Vol, veh/h	985			764	836	
Approach Delay, s/veh	114.3			84.9	51.6	
Approach LOS	F			F	D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4	5	6		
Phs Duration (G+Y+Rc), s		40.0		50.0	8.0	32.0		
Change Period (Y+Rc), s		4.0		4.0	4.0	4.0		
Max Green Setting (Gmax), s		36.0		46.0	4.0	28.0		
Max Q Clear Time (g_c+I1), s		38.0		48.0	2.8	28.6		
Green Ext Time (p_c), s		0.0		0.0	0.5	0.0		

Intersection Summary	
HCM 2010 Ctrl Delay	85.3
HCM 2010 LOS	F

Notes

User approved volume balancing among the lanes for turning movement.

Intersection	
Int Delay, s/veh	461.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	23	1598	2	4	884	83	0	0	0	151	2	30
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	200	-	-	200	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	25	1737	2	4	961	90	0	0	0	164	2	33

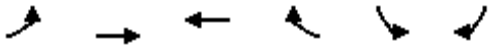
Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	1051	0	0	1739	0	0	2820	2848	1738	2803	2804	1006
Stage 1	-	-	-	-	-	-	1788	1788	-	1015	1015	-
Stage 2	-	-	-	-	-	-	1032	1060	-	1788	1789	-
Critical Hdwy	4.2	-	-	4.2	-	-	7.2	6.6	6.3	7.2	6.6	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.59	4.09	3.39	3.59	4.09	3.39
Pot Cap-1 Maneuver	633	-	-	342	-	-	11	16	103	~ 11	17	283
Stage 1	-	-	-	-	-	-	99	127	-	278	306	-
Stage 2	-	-	-	-	-	-	272	291	-	~ 99	127	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	633	-	-	342	-	-	8	15	103	~ 11	16	283
Mov Cap-2 Maneuver	-	-	-	-	-	-	8	15	-	~ 11	16	-
Stage 1	-	-	-	-	-	-	95	122	-	267	302	-
Stage 2	-	-	-	-	-	-	236	288	-	~ 95	122	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.2	0.1	0	$ 7001.1
HCM LOS			A	F

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	-	633	-	-	342	-	-	13
HCM Lane V/C Ratio	-	0.039	-	-	0.013	-	-	15.301
HCM Control Delay (s)	0	10.9	-	-	15.7	-	-	$ 7001.1
HCM Lane LOS	A	B	-	-	C	-	-	F
HCM 95th %tile Q(veh)	-	0.1	-	-	0	-	-	26.1

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (veh/h)	353	828	145	94	248	2
Number	7	4	8	18	1	16
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00			1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900
Adj Flow Rate, veh/h	384	900	158	102	270	2
Adj No. of Lanes	1	1	1	1	0	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	0	0
Opposing Right Turn Influence	Yes				Yes	
Cap, veh/h	754	1084	1084	922	345	3
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.63	0.63	0.63	0.63	0.21	0.21
Ln Grp Delay, s/veh	7.2	8.9	3.9	3.8	22.5	0.0
Ln Grp LOS	A	A	A	A	C	
Approach Vol, veh/h		1284	260		273	
Approach Delay, s/veh		8.4	3.8		22.5	
Approach LOS		A	A		C	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	6			4				8
Case No	12.0			6.0				7.0
Phs Duration (G+Y+Rc), s	14.6			35.4				35.4
Change Period (Y+Rc), s	4.0			4.0				4.0
Max Green (Gmax), s	23.0			59.0				59.0
Max Allow Headway (MAH), s	4.1			4.3				4.3
Max Q Clear (g_c+I1), s	9.8			22.3				3.9
Green Ext Time (g_e), s	0.8			9.1				9.5
Prob of Phs Call (p_c)	1.00			1.00				1.00
Prob of Max Out (p_x)	0.00			0.06				0.01

Left-Turn Movement Data								
Assigned Mvmt	1			7				3
Mvmt Sat Flow, veh/h	1626			1034				0

Through Movement Data								
Assigned Mvmt	6			4				8
Mvmt Sat Flow, veh/h	6			1727				1727

Right-Turn Movement Data								
Assigned Mvmt	16			14				18
Mvmt Sat Flow, veh/h	12			0				1468

Left Lane Group Data								
Assigned Mvmt	1	0	0	7	0	0	0	3
Lane Assignment	L+T+R							
Lanes in Grp	1	0	0	1	0	0	0	0

Grp Vol (v), veh/h	273	0	0	384	0	0	0	0
Grp Sat Flow (s), veh/h/ln	1644	0	0	1034	0	0	0	0
Q Serve Time (g_s), s	7.8	0.0	0.0	12.1	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	7.8	0.0	0.0	14.0	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	1034	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	31.4	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	29.5	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	12.1	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.4
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.99	0.00	0.00	1.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	349	0	0	754	0	0	0	0
V/C Ratio (X)	0.78	0.00	0.00	0.51	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	756	0	0	1325	0	0	0	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	18.6	0.0	0.0	6.7	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	3.9	0.0	0.0	0.5	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	22.5	0.0	0.0	7.2	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	3.6	0.0	0.0	3.4	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.4	0.0	0.0	0.1	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	3.9	0.0	0.0	3.5	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	6	0	0	4	0	0	0	8
Lane Assignment				T				T
Lanes in Grp	0	0	0	1	0	0	0	1
Grp Vol (v), veh/h	0	0	0	900	0	0	0	158
Grp Sat Flow (s), veh/h/ln	0	0	0	1727	0	0	0	1727
Q Serve Time (g_s), s	0.0	0.0	0.0	20.3	0.0	0.0	0.0	1.9
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	20.3	0.0	0.0	0.0	1.9
Lane Grp Cap (c), veh/h	0	0	0	1084	0	0	0	1084
V/C Ratio (X)	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.15
Avail Cap (c_a), veh/h	0	0	0	2038	0	0	0	2038
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	7.2	0.0	0.0	0.0	3.8
Incr Delay (d2), s/veh	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	8.9	0.0	0.0	0.0	3.9
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	9.3	0.0	0.0	0.0	0.9
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0

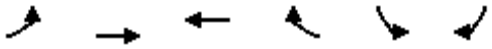
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	9.8	0.0	0.0	0.0	0.9
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	16	0	0	14	0	0	0	18
Lane Assignment								R
Lanes in Grp	0	0	0	0	0	0	0	1
Grp Vol (v), veh/h	0	0	0	0	0	0	0	102
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	1468
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.01	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	922
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	1732
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	9.9
HCM 2010 LOS	A

Notes

User approved volume balancing among the lanes for turning movement.



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (veh/h)	353	828	145	94	248	2
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900
Adj Flow Rate, veh/h	384	900	158	102	270	2
Adj No. of Lanes	1	1	1	1	0	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	0	0
Cap, veh/h	754	1084	1084	922	345	3
Arrive On Green	0.63	0.63	0.63	0.63	0.21	0.21
Sat Flow, veh/h	1034	1727	1727	1468	1626	12
Grp Volume(v), veh/h	384	900	158	102	273	0
Grp Sat Flow(s),veh/h/ln	1034	1727	1727	1468	1644	0
Q Serve(g_s), s	12.1	20.3	1.9	1.4	7.8	0.0
Cycle Q Clear(g_c), s	14.0	20.3	1.9	1.4	7.8	0.0
Prop In Lane	1.00			1.00	0.99	0.01
Lane Grp Cap(c), veh/h	754	1084	1084	922	349	0
V/C Ratio(X)	0.51	0.83	0.15	0.11	0.78	0.00
Avail Cap(c_a), veh/h	1325	2038	2038	1732	756	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	6.7	7.2	3.8	3.7	18.6	0.0
Incr Delay (d2), s/veh	0.5	1.7	0.1	0.1	3.9	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.5	9.8	0.9	0.6	3.9	0.0
LnGrp Delay(d),s/veh	7.2	8.9	3.9	3.8	22.5	0.0
LnGrp LOS	A	A	A	A	C	
Approach Vol, veh/h		1284	260		273	
Approach Delay, s/veh		8.4	3.8		22.5	
Approach LOS		A	A		C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		8
Phs Duration (G+Y+Rc), s				35.4		14.6		35.4
Change Period (Y+Rc), s				4.0		4.0		4.0
Max Green Setting (Gmax), s				59.0		23.0		59.0
Max Q Clear Time (g_c+I1), s				22.3		9.8		3.9
Green Ext Time (p_c), s				9.1		0.8		9.5

Intersection Summary	
HCM 2010 Ctrl Delay	9.9
HCM 2010 LOS	A

Notes

User approved volume balancing among the lanes for turning movement.

Intersection	
Int Delay, s/veh	3.9

Movement	SET	SER	NWL	NWT	NEL	NER
Vol, veh/h	93	41	92	97	0	94
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	101	45	100	105	0	102

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	146	0	428	123
Stage 1	-	-	-	-	123	-
Stage 2	-	-	-	-	305	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	1388	-	569	907
Stage 1	-	-	-	-	883	-
Stage 2	-	-	-	-	730	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1388	-	525	907
Mov Cap-2 Maneuver	-	-	-	-	525	-
Stage 1	-	-	-	-	883	-
Stage 2	-	-	-	-	674	-

Approach	SE	NW	NE
HCM Control Delay, s	0	3.8	9.5
HCM LOS			A

Minor Lane/Major Mvmt	NELn1	NWL	NWT	SET	SER
Capacity (veh/h)	907	1388	-	-	-
HCM Lane V/C Ratio	0.113	0.072	-	-	-
HCM Control Delay (s)	9.5	7.8	0	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0.4	0.2	-	-	-

Intersection	
Int Delay, s/veh	4.3

Movement	EBL	EBT	WBT	WBR	SEL	SER
Vol, veh/h	193	566	132	138	57	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	210	615	143	150	62	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	293	0	-	0	1253	218
Stage 1	-	-	-	-	218	-
Stage 2	-	-	-	-	1035	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1224	-	-	-	183	802
Stage 1	-	-	-	-	800	-
Stage 2	-	-	-	-	331	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1224	-	-	-	135	802
Mov Cap-2 Maneuver	-	-	-	-	135	-
Stage 1	-	-	-	-	800	-
Stage 2	-	-	-	-	245	-

Approach	EB	WB	SE
HCM Control Delay, s	2.2	0	52.5
HCM LOS			F

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SELn1	SELn2
Capacity (veh/h)	1224	-	-	-	135	-
HCM Lane V/C Ratio	0.171	-	-	-	0.459	-
HCM Control Delay (s)	8.5	0	-	-	52.5	0
HCM Lane LOS	A	A	-	-	F	A
HCM 95th %tile Q(veh)	0.6	-	-	-	2.1	-

Intersection	
Int Delay, s/veh	7.2

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	3	47	9	35	203	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	3	51	10	38	221	5

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	48	0	-	0	87	29
Stage 1	-	-	-	-	29	-
Stage 2	-	-	-	-	58	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1509	-	-	-	895	1023
Stage 1	-	-	-	-	973	-
Stage 2	-	-	-	-	945	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1509	-	-	-	893	1023
Mov Cap-2 Maneuver	-	-	-	-	893	-
Stage 1	-	-	-	-	973	-
Stage 2	-	-	-	-	943	-

Approach	EB	WB	SB
HCM Control Delay, s	0.4	0	10.4
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1509	-	-	-	896
HCM Lane V/C Ratio	0.002	-	-	-	0.252
HCM Control Delay (s)	7.4	0	-	-	10.4
HCM Lane LOS	A	A	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	1

Intersection	
Int Delay, s/veh	51.8

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	0	115	68	2	6	25	42	85	8	350	417	2
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	170	-	-	162	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	125	74	2	7	27	46	92	9	380	453	2

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	1420	1407	454	1503	1404	97	455	0	0	101	0	0
Stage 1	1215	1215	-	188	188	-	-	-	-	-	-	-
Stage 2	205	192	-	1315	1216	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.2	6.6	6.3	4.2	-	-	4.2	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.59	4.09	3.39	2.29	-	-	2.29	-	-
Pot Cap-1 Maneuver	110	134	590	96	134	938	1065	-	-	1443	-	-
Stage 1	213	245	-	796	730	-	-	-	-	-	-	-
Stage 2	779	727	-	187	245	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	78	~ 94	590	-	94	938	1065	-	-	1443	-	-
Mov Cap-2 Maneuver	78	~ 94	-	-	94	-	-	-	-	-	-	-
Stage 1	204	180	-	762	698	-	-	-	-	-	-	-
Stage 2	717	696	-	37	180	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	298.8		2.7	3.8
HCM LOS	F	-		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1065	-	-	137	-	1443	-	-
HCM Lane V/C Ratio	0.043	-	-	1.452	-	0.264	-	-
HCM Control Delay (s)	8.5	-	-	298.8	-	8.4	-	-
HCM Lane LOS	A	-	-	F	-	A	-	-
HCM 95th %tile Q(veh)	0.1	-	-	13.3	-	1.1	-	-

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Intersection	
Intersection Delay, s/veh	14.8
Intersection LOS	B

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	SBU	SBL	SBR
Vol, veh/h	0	0	231	0	0	0	73	0	0	0	2
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	0	251	0	0	0	79	0	0	0	2
Number of Lanes	0	0	1	0	0	0	1	0	0	1	0

Approach	EB	WB
Opposing Approach	WB	EB
Opposing Lanes	1	1
Conflicting Approach Left	SB	
Conflicting Lanes Left	1	0
Conflicting Approach Right		SB
Conflicting Lanes Right	0	1
HCM Control Delay	11.8	9.6
HCM LOS	B	A

Lane	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	0%	100%
Vol Thru, %	100%	100%	0%
Vol Right, %	0%	0%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	231	73	419
LT Vol	0	0	417
Through Vol	231	73	0
RT Vol	0	0	2
Lane Flow Rate	251	79	455
Geometry Grp	1	1	1
Degree of Util (X)	0.377	0.127	0.65
Departure Headway (Hd)	5.4	5.773	5.135
Convergence, Y/N	Yes	Yes	Yes
Cap	658	624	697
Service Time	3.495	3.773	3.221
HCM Lane V/C Ratio	0.381	0.127	0.653
HCM Control Delay	11.8	9.6	17.4
HCM Lane LOS	B	A	C
HCM 95th-tile Q	1.8	0.4	4.8

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	NWU	NWL	NWR
Vol, veh/h	0	0	0
Peak Hour Factor	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10
Mvmt Flow	0	0	0
Number of Lanes	0	0	0

Approach	
Opposing Approach	
Opposing Lanes	
Conflicting Approach Left	
Conflicting Lanes Left	
Conflicting Approach Right	
Conflicting Lanes Right	
HCM Control Delay	
HCM LOS	

Lane

Intersection	
Int Delay, s/veh	1.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBR	SEL	SER
Vol, veh/h	0	189	0	0	111	0	24	33	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	None	-	-
Storage Length	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	0	-	0	-
Grade, %	-	0	-	-	0	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	205	0	0	121	0	26	36	0	0

Major/Minor	Major1			Major2			Minor1		
Conflicting Flow All	121	0	0	205	0	0	326	205	
Stage 1	-	-	-	-	-	-	205	-	
Stage 2	-	-	-	-	-	-	121	-	
Critical Hdwy	4.2	-	-	4.2	-	-	6.5	6.3	
Critical Hdwy Stg 1	-	-	-	-	-	-	5.5	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	5.5	-	
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.59	3.39	
Pot Cap-1 Maneuver	1418	-	-	1320	-	-	652	816	
Stage 1	-	-	-	-	-	-	811	-	
Stage 2	-	-	-	-	-	-	885	-	
Platoon blocked, %		-	-		-	-			
Mov Cap-1 Maneuver	1418	-	-	1320	-	-	652	816	
Mov Cap-2 Maneuver	-	-	-	-	-	-	652	-	
Stage 1	-	-	-	-	-	-	811	-	
Stage 2	-	-	-	-	-	-	885	-	

Approach	EB	WB	NB
HCM Control Delay, s	0	0	9.8
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR
Capacity (veh/h)	816	1418	-	-	1320	-	-
HCM Lane V/C Ratio	0.076	-	-	-	-	-	-
HCM Control Delay (s)	9.8	0	-	-	0	-	-
HCM Lane LOS	A	A	-	-	A	-	-
HCM 95th %tile Q(veh)	0.2	0	-	-	0	-	-

Intersection	
Int Delay, s/veh	2.6

Movement	NBT	NBR	SBL	SBT	NWL	NWR
Vol, veh/h	428	50	177	401	0	104
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	299	-	0	-
Veh in Median Storage, #	0	-	-	0	1	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	465	54	192	436	0	113

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	520	0	1313	492
Stage 1	-	-	-	-	492	-
Stage 2	-	-	-	-	821	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	1007	-	168	561
Stage 1	-	-	-	-	598	-
Stage 2	-	-	-	-	419	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1007	-	136	561
Mov Cap-2 Maneuver	-	-	-	-	253	-
Stage 1	-	-	-	-	598	-
Stage 2	-	-	-	-	339	-

Approach	NB	SB	NW
HCM Control Delay, s	0	2.9	13
HCM LOS			B

Minor Lane/Major Mvmt	NBT	NBR	NWLn1	SBL	SBT
Capacity (veh/h)	-	-	561	1007	-
HCM Lane V/C Ratio	-	-	0.202	0.191	-
HCM Control Delay (s)	-	-	13	9.4	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.7	0.7	-

Intersection	
Intersection Delay, s/veh	16.1
Intersection LOS	C

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	21	256	119	0	51	105	18	0	56	60	46
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	23	278	129	0	55	114	20	0	61	65	50
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	1	1	1
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	1	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	1	1
HCM Control Delay	19.9	12.6	12.5
HCM LOS	C	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	35%	5%	29%	11%
Vol Thru, %	37%	65%	60%	82%
Vol Right, %	28%	30%	10%	7%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	162	396	174	245
LT Vol	56	21	51	28
Through Vol	60	256	105	200
RT Vol	46	119	18	17
Lane Flow Rate	176	430	189	266
Geometry Grp	1	1	1	1
Degree of Util (X)	0.317	0.676	0.335	0.461
Departure Headway (Hd)	6.471	5.764	6.368	6.352
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	558	633	567	570
Service Time	4.483	3.764	4.381	4.352
HCM Lane V/C Ratio	0.315	0.679	0.333	0.467
HCM Control Delay	12.5	19.9	12.6	14.7
HCM Lane LOS	B	C	B	B
HCM 95th-tile Q	1.4	5.2	1.5	2.4

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	28	200	17
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10
Mvmt Flow	0	30	217	18
Number of Lanes	0	0	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	1
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	14.7
HCM LOS	B

Lane

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	137	1566	325	229	1004	22	37	74	22	57	436	37
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	149	1702	353	249	1091	24	40	80	24	62	474	40
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	358	1477	661	219	1201	537	49	111	94	361	437	372
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.22	0.45	0.45	0.13	0.37	0.37	0.03	0.06	0.06	0.22	0.25	0.25
Ln Grp Delay, s/veh	41.2	109.8	24.7	152.8	44.0	24.6	112.1	88.5	39.4	38.2	112.2	13.8
Ln Grp LOS	D	F	C	F	D	C	F	F	D	D	F	B
Approach Vol, veh/h		2204			1364			144			576	
Approach Delay, s/veh		91.6			63.5			86.9			97.4	
Approach LOS		F			E			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	5	6	8	7
Case No	3.0	2.0	2.0	3.0	2.0	3.0	3.0	2.0
Phs Duration (G+Y+Rc), s	11.7	30.3	20.0	58.0	7.6	34.4	47.9	30.1
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	24.0	10.0	16.0	54.0	4.0	30.0	51.0	19.0
Max Allow Headway (MAH), s	4.1	4.0	4.1	4.1	4.1	4.0	4.0	4.1
Max Q Clear (g_c+I1), s	7.5	5.7	18.0	56.0	4.9	32.4	39.9	11.4
Green Ext Time (g_e), s	0.2	1.0	0.0	0.0	0.0	0.0	4.0	5.7
Prob of Phs Call (p_c)	1.00	0.87	1.00	1.00	0.74	1.00	1.00	0.99
Prob of Max Out (p_x)	0.00	0.91	1.00	1.00	1.00	1.00	0.27	0.83

Left-Turn Movement Data								
Assigned Mvmt		1	3		5			7
Mvmt Sat Flow, veh/h		1645	1645		1645			1645

Through Movement Data								
Assigned Mvmt	2			4		6	8	
Mvmt Sat Flow, veh/h	1727			3282		1727	3282	

Right-Turn Movement Data								
Assigned Mvmt	12			14		16	18	
Mvmt Sat Flow, veh/h	1468			1468		1468	1468	

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	5	0	0	7
Lane Assignment		(Prot)	(Prot)		(Prot)			(Prot)
Lanes in Grp	0	1	1	0	1	0	0	1

Grp Vol (v), veh/h	0	62	249	0	40	0	0	149
Grp Sat Flow (s), veh/h/ln	0	1645	1645	0	1645	0	0	1645
Q Serve Time (g_s), s	0.0	3.7	16.0	0.0	2.9	0.0	0.0	9.4
Cycle Q Clear Time (g_c), s	0.0	3.7	16.0	0.0	2.9	0.0	0.0	9.4
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	361	219	0	49	0	0	358
V/C Ratio (X)	0.00	0.17	1.14	0.00	0.81	0.00	0.00	0.42
Avail Cap (c_a), veh/h	0	361	219	0	55	0	0	358
Upstream Filter (I)	0.00	1.00	0.96	0.00	1.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	38.0	52.0	0.0	57.9	0.0	0.0	40.4
Incr Delay (d2), s/veh	0.0	0.2	100.8	0.0	54.3	0.0	0.0	0.8
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	38.2	152.8	0.0	112.1	0.0	0.0	41.2
1st-Term Q (Q1), veh/ln	0.0	1.7	7.3	0.0	1.3	0.0	0.0	4.3
2nd-Term Q (Q2), veh/ln	0.0	0.0	6.1	0.0	0.7	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.7	13.4	0.0	2.1	0.0	0.0	4.3
%ile Storage Ratio (RQ%)	0.00	0.00	0.03	0.00	0.02	0.00	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	7.4	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	0	6	8	0
Lane Assignment	T			T		T	T	
Lanes in Grp	1	0	0	2	0	1	2	0
Grp Vol (v), veh/h	80	0	0	1702	0	474	1091	0
Grp Sat Flow (s), veh/h/ln	1727	0	0	1641	0	1727	1641	0
Q Serve Time (g_s), s	5.5	0.0	0.0	54.0	0.0	30.4	37.9	0.0
Cycle Q Clear Time (g_c), s	5.5	0.0	0.0	54.0	0.0	30.4	37.9	0.0
Lane Grp Cap (c), veh/h	111	0	0	1477	0	437	1201	0
V/C Ratio (X)	0.72	0.00	0.00	1.15	0.00	1.08	0.91	0.00
Avail Cap (c_a), veh/h	345	0	0	1477	0	437	1395	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	1.00	0.96	0.00
Uniform Delay (d1), s/veh	55.1	0.0	0.0	33.0	0.0	44.8	36.1	0.0
Incr Delay (d2), s/veh	33.4	0.0	0.0	76.8	0.0	67.4	7.9	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	88.5	0.0	0.0	109.8	0.0	112.2	44.0	0.0
1st-Term Q (Q1), veh/ln	2.6	0.0	0.0	24.4	0.0	14.5	17.1	0.0
2nd-Term Q (Q2), veh/ln	1.0	0.0	0.0	15.8	0.0	8.2	1.3	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	3.6	0.0	0.0	40.2	0.0	22.6	18.4	0.0
%ile Storage Ratio (RQ%)	0.04	0.00	0.00	0.21	0.00	0.03	0.04	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	56.3	0.0	9.1	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.0	0.3	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	0	14	0	16	18	0
Lane Assignment	R			R		R	R	
Lanes in Grp	1	0	0	1	0	1	1	0
Grp Vol (v), veh/h	24	0	0	353	0	40	24	0
Grp Sat Flow (s), veh/h/ln	1468	0	0	1468	0	1468	1468	0
Q Serve Time (g_s), s	1.5	0.0	0.0	20.9	0.0	1.6	1.3	0.0
Cycle Q Clear Time (g_c), s	1.5	0.0	0.0	20.9	0.0	1.6	1.3	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	94	0	0	661	0	372	537	0
V/C Ratio (X)	0.25	0.00	0.00	0.53	0.00	0.11	0.04	0.00
Avail Cap (c_a), veh/h	294	0	0	661	0	372	624	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	1.00	0.96	0.00
Uniform Delay (d1), s/veh	33.0	0.0	0.0	23.9	0.0	13.2	24.5	0.0
Incr Delay (d2), s/veh	6.4	0.0	0.0	0.8	0.0	0.6	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	39.4	0.0	0.0	24.7	0.0	13.8	24.6	0.0
1st-Term Q (Q1), veh/ln	0.6	0.0	0.0	8.4	0.0	0.6	0.5	0.0
2nd-Term Q (Q2), veh/ln	0.2	0.0	0.0	0.2	0.0	0.1	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.8	0.0	0.0	8.6	0.0	0.7	0.5	0.0
%ile Storage Ratio (RQ%)	0.01	0.00	0.00	0.04	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	83.3
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	137	1566	325	229	1004	22	37	74	22	57	436	37
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	149	1702	353	249	1091	24	40	80	24	62	474	40
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	358	1477	661	219	1201	537	49	111	94	361	437	372
Arrive On Green	0.22	0.45	0.45	0.13	0.37	0.37	0.03	0.06	0.06	0.22	0.25	0.25
Sat Flow, veh/h	1645	3282	1468	1645	3282	1468	1645	1727	1468	1645	1727	1468
Grp Volume(v), veh/h	149	1702	353	249	1091	24	40	80	24	62	474	40
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1641	1468	1645	1727	1468	1645	1727	1468
Q Serve(g_s), s	9.4	54.0	20.9	16.0	37.9	1.3	2.9	5.5	1.5	3.7	30.4	1.6
Cycle Q Clear(g_c), s	9.4	54.0	20.9	16.0	37.9	1.3	2.9	5.5	1.5	3.7	30.4	1.6
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	358	1477	661	219	1201	537	49	111	94	361	437	372
V/C Ratio(X)	0.42	1.15	0.53	1.14	0.91	0.04	0.81	0.72	0.25	0.17	1.08	0.11
Avail Cap(c_a), veh/h	358	1477	661	219	1395	624	55	345	294	361	437	372
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.96	0.96	0.96	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	40.4	33.0	23.9	52.0	36.1	24.5	57.9	55.1	33.0	38.0	44.8	13.2
Incr Delay (d2), s/veh	0.8	76.8	0.8	100.8	7.9	0.0	54.3	33.4	6.4	0.2	67.4	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.3	40.2	8.6	13.4	18.4	0.5	2.1	3.6	0.8	1.7	22.6	0.7
LnGrp Delay(d),s/veh	41.2	109.8	24.7	152.8	44.0	24.6	112.1	88.5	39.4	38.2	112.2	13.8
LnGrp LOS	D	F	C	F	D	C	F	F	D	D	F	B
Approach Vol, veh/h		2204			1364			144			576	
Approach Delay, s/veh		91.6			63.5			86.9			97.4	
Approach LOS		F			E			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	30.3	11.7	20.0	58.0	7.6	34.4	30.1	47.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	10.0	24.0	16.0	54.0	4.0	30.0	19.0	51.0
Max Q Clear Time (g_c+I1), s	5.7	7.5	18.0	56.0	4.9	32.4	11.4	39.9
Green Ext Time (p_c), s	1.0	0.2	0.0	0.0	0.0	0.0	5.7	4.0

Intersection Summary	
HCM 2010 Ctrl Delay	83.3
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	1363	120	700	690	12	55	5	262	3	11	0
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	1482	130	761	750	13	60	5	285	3	12	0
Adj No. of Lanes	1	2	1	1	2	0	2	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	60	1149	514	562	2393	41	97	297	252	5	250	212
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.00	0.35	0.35	0.34	0.73	0.73	0.03	0.17	0.17	0.00	0.14	0.00
Ln Grp Delay, s/veh	0.0	170.2	27.8	207.1	6.0	6.0	58.3	41.3	113.2	132.7	44.3	0.0
Ln Grp LOS		F	C	F	A	A	E	D	F	F	D	
Approach Vol, veh/h		1612			1524			350			15	
Approach Delay, s/veh		158.7			106.4			102.8			62.0	
Approach LOS		F			F			F			E	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6		8
Case No	2.0	3.0	2.0	5.0	2.0	3.0		4.0
Phs Duration (G+Y+Rc), s	4.4	24.6	45.0	46.0	7.7	21.3		91.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0		4.0
Max Green (Gmax), s	4.0	17.0	41.0	42.0	4.0	17.0		87.0
Max Allow Headway (MAH), s	4.1	4.3	4.1	4.0	4.1	4.3		4.0
Max Q Clear (g_c+I1), s	2.2	22.6	43.0	44.0	4.2	2.7		11.7
Green Ext Time (g_e), s	0.0	0.0	0.0	0.0	0.0	1.0		18.1
Prob of Phs Call (p_c)	0.10	1.00	1.00	1.00	0.86	1.00		1.00
Prob of Max Out (p_x)	1.00	1.00	1.00	1.00	1.00	0.01		0.04

Left-Turn Movement Data								
Assigned Mvmt	1		3	7	5			
Mvmt Sat Flow, veh/h	1645		1645	650	3191			

Through Movement Data								
Assigned Mvmt		2		4		6		8
Mvmt Sat Flow, veh/h		1727		3282		1727		3301

Right-Turn Movement Data								
Assigned Mvmt		12		14		16		18
Mvmt Sat Flow, veh/h		1468		1468		1468		57

Left Lane Group Data								
Assigned Mvmt	1	0	3	7	5	0	0	0
Lane Assignment	(Prot)		(Prot)		(Prot)			
Lanes in Grp	1	0	1	1	2	0	0	0

Grp Vol (v), veh/h	3	0	761	0	60	0	0	0
Grp Sat Flow (s), veh/h/ln	1645	0	1645	650	1596	0	0	0
Q Serve Time (g_s), s	0.2	0.0	41.0	0.0	2.2	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.2	0.0	41.0	0.0	2.2	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	650	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	5	0	562	60	97	0	0	0
V/C Ratio (X)	0.57	0.00	1.35	0.00	0.62	0.00	0.00	0.00
Avail Cap (c_a), veh/h	55	0	562	60	106	0	0	0
Upstream Filter (I)	1.00	0.00	0.72	0.00	0.09	0.00	0.00	0.00
Uniform Delay (d1), s/veh	59.7	0.0	39.5	0.0	57.5	0.0	0.0	0.0
Incr Delay (d2), s/veh	73.0	0.0	167.6	0.0	0.8	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	132.7	0.0	207.1	0.0	58.3	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.1	0.0	18.6	0.0	1.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.1	0.0	26.2	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.2	0.0	44.8	0.0	1.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.06	0.00	3.90	0.00	0.17	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	49.7	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	0	8
Lane Assignment		T		T		T		T
Lanes in Grp	0	1	0	2	0	1	0	1
Grp Vol (v), veh/h	0	5	0	1482	0	12	0	373
Grp Sat Flow (s), veh/h/ln	0	1727	0	1641	0	1727	0	1641
Q Serve Time (g_s), s	0.0	0.3	0.0	42.0	0.0	0.7	0.0	9.7
Cycle Q Clear Time (g_c), s	0.0	0.3	0.0	42.0	0.0	0.7	0.0	9.7
Lane Grp Cap (c), veh/h	0	297	0	1149	0	250	0	1190
V/C Ratio (X)	0.00	0.02	0.00	1.29	0.00	0.05	0.00	0.31
Avail Cap (c_a), veh/h	0	297	0	1149	0	250	0	1190
Upstream Filter (I)	0.00	0.09	0.00	0.09	0.00	1.00	0.00	0.72
Uniform Delay (d1), s/veh	0.0	41.3	0.0	39.0	0.0	44.2	0.0	5.9
Incr Delay (d2), s/veh	0.0	0.0	0.0	131.2	0.0	0.1	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	41.3	0.0	170.2	0.0	44.3	0.0	6.0
1st-Term Q (Q1), veh/ln	0.0	0.1	0.0	19.0	0.0	0.3	0.0	4.3
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.1	0.0	39.9	0.0	0.3	0.0	4.4
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.08	0.00	0.01	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	83.3	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	0	18
Lane Assignment		R		R		R		T+R
Lanes in Grp	0	1	0	1	0	1	0	1
Grp Vol (v), veh/h	0	285	0	130	0	0	0	390
Grp Sat Flow (s), veh/h/ln	0	1468	0	1468	0	1468	0	1717
Q Serve Time (g_s), s	0.0	20.6	0.0	7.6	0.0	0.0	0.0	9.7
Cycle Q Clear Time (g_c), s	0.0	20.6	0.0	7.6	0.0	0.0	0.0	9.7
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	0.03
Lane Grp Cap (c), veh/h	0	252	0	514	0	212	0	1245
V/C Ratio (X)	0.00	1.13	0.00	0.25	0.00	0.00	0.00	0.31
Avail Cap (c_a), veh/h	0	252	0	514	0	212	0	1245
Upstream Filter (I)	0.00	0.09	0.00	0.09	0.00	0.00	0.00	0.72
Uniform Delay (d1), s/veh	0.0	49.7	0.0	27.8	0.0	0.0	0.0	5.9
Incr Delay (d2), s/veh	0.0	63.5	0.0	0.0	0.0	0.0	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	113.2	0.0	27.8	0.0	0.0	0.0	6.0
1st-Term Q (Q1), veh/ln	0.0	8.4	0.0	3.1	0.0	0.0	0.0	4.6
2nd-Term Q (Q2), veh/ln	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	12.8	0.0	3.1	0.0	0.0	0.0	4.6
%ile Storage Ratio (RQ%)	0.00	3.30	0.00	0.33	0.00	0.00	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	8.2	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	130.0
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	1363	120	700	690	12	55	5	262	3	11	0
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	1482	130	761	750	13	60	5	285	3	12	0
Adj No. of Lanes	1	2	1	1	2	0	2	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	60	1149	514	562	2393	41	97	297	252	5	250	212
Arrive On Green	0.00	0.35	0.35	0.34	0.73	0.73	0.03	0.17	0.17	0.00	0.14	0.00
Sat Flow, veh/h	650	3282	1468	1645	3301	57	3191	1727	1468	1645	1727	1468
Grp Volume(v), veh/h	0	1482	130	761	373	390	60	5	285	3	12	0
Grp Sat Flow(s),veh/h/ln	650	1641	1468	1645	1641	1717	1596	1727	1468	1645	1727	1468
Q Serve(g_s), s	0.0	42.0	7.6	41.0	9.7	9.7	2.2	0.3	20.6	0.2	0.7	0.0
Cycle Q Clear(g_c), s	0.0	42.0	7.6	41.0	9.7	9.7	2.2	0.3	20.6	0.2	0.7	0.0
Prop In Lane	1.00		1.00	1.00		0.03	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	60	1149	514	562	1190	1245	97	297	252	5	250	212
V/C Ratio(X)	0.00	1.29	0.25	1.35	0.31	0.31	0.62	0.02	1.13	0.57	0.05	0.00
Avail Cap(c_a), veh/h	60	1149	514	562	1190	1245	106	297	252	55	250	212
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.09	0.09	0.72	0.72	0.72	0.09	0.09	0.09	1.00	1.00	0.00
Uniform Delay (d), s/veh	0.0	39.0	27.8	39.5	5.9	5.9	57.5	41.3	49.7	59.7	44.2	0.0
Incr Delay (d2), s/veh	0.0	131.2	0.0	167.6	0.1	0.1	0.8	0.0	63.5	73.0	0.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	39.9	3.1	44.8	4.4	4.6	1.0	0.1	12.8	0.2	0.3	0.0
LnGrp Delay(d),s/veh	0.0	170.2	27.8	207.1	6.0	6.0	58.3	41.3	113.2	132.7	44.3	0.0
LnGrp LOS		F	C	F	A	A	E	D	F	F	D	
Approach Vol, veh/h		1612			1524			350			15	
Approach Delay, s/veh		158.7			106.4			102.8			62.0	
Approach LOS		F			F			F			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6		8
Phs Duration (G+Y+Rc), s	4.4	24.6	45.0	46.0	7.7	21.3		91.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	4.0	17.0	41.0	42.0	4.0	17.0		87.0
Max Q Clear Time (g_c+I1), s	2.2	22.6	43.0	44.0	4.2	2.7		11.7
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	1.0		18.1

Intersection Summary	
HCM 2010 Ctrl Delay	130.0
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	17	1467	119	522	1203	13	103	2	324	100	71	21
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	18	1595	129	567	1308	14	112	2	352	109	77	23
Adj No. of Lanes	1	2	0	1	2	1	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	334	1257	101	425	1522	681	96	1	207	96	181	54
HCM Platoon Ratio	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.20	0.41	0.41	0.09	0.15	0.15	0.06	0.14	0.14	0.06	0.14	0.14
Ln Grp Delay, s/veh	38.5	153.7	162.3	218.4	49.5	27.7	142.1	0.0	368.6	189.7	0.0	52.6
Ln Grp LOS	D	F	F	F	D	C	F		F	F		D
Approach Vol, veh/h		1742			1889			466			209	
Approach Delay, s/veh		156.9			100.1			314.2			124.1	
Approach LOS		F			F			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	5	6	8	7
Case No	4.0	2.0	2.0	4.0	2.0	4.0	3.0	2.0
Phs Duration (G+Y+Rc), s	21.0	11.0	35.0	53.0	11.0	21.0	59.6	28.4
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	17.0	7.0	31.0	49.0	7.0	17.0	75.0	5.0
Max Allow Headway (MAH), s	4.3	4.1	4.1	4.0	4.1	4.1	4.0	4.0
Max Q Clear (g_c+I1), s	19.0	9.0	33.0	51.0	9.0	8.6	48.6	3.1
Green Ext Time (g_e), s	0.0	0.0	0.0	0.0	0.0	0.4	7.0	1.4
Prob of Phs Call (p_c)	1.00	0.97	1.00	1.00	0.98	1.00	1.00	0.45
Prob of Max Out (p_x)	1.00	1.00	1.00	1.00	1.00	0.05	0.04	1.00

Left-Turn Movement Data								
Assigned Mvmt		1	3		5			7
Mvmt Sat Flow, veh/h		1645	1645		1645			1645

Through Movement Data								
Assigned Mvmt	2			4		6	8	
Mvmt Sat Flow, veh/h	8			3078		1278	3282	

Right-Turn Movement Data								
Assigned Mvmt	12			14		16	18	
Mvmt Sat Flow, veh/h	1461			247		382	1468	

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	5	0	0	7
Lane Assignment		(Prot)	(Prot)		(Prot)			(Prot)
Lanes in Grp	0	1	1	0	1	0	0	1

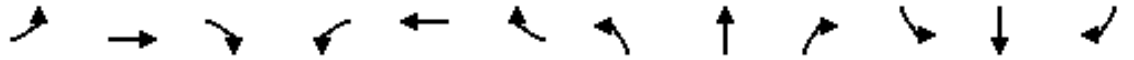
Grp Vol (v), veh/h	0	109	567	0	112	0	0	18
Grp Sat Flow (s), veh/h/ln	0	1645	1645	0	1645	0	0	1645
Q Serve Time (g_s), s	0.0	7.0	31.0	0.0	7.0	0.0	0.0	1.1
Cycle Q Clear Time (g_c), s	0.0	7.0	31.0	0.0	7.0	0.0	0.0	1.1
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	96	425	0	96	0	0	334
V/C Ratio (X)	0.00	1.14	1.33	0.00	1.17	0.00	0.00	0.05
Avail Cap (c_a), veh/h	0	96	425	0	96	0	0	334
Upstream Filter (I)	0.00	1.00	0.85	0.00	0.09	0.00	0.00	0.09
Uniform Delay (d1), s/veh	0.0	56.5	54.9	0.0	56.5	0.0	0.0	38.5
Incr Delay (d2), s/veh	0.0	133.2	163.6	0.0	85.6	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	189.7	218.4	0.0	142.1	0.0	0.0	38.5
1st-Term Q (Q1), veh/ln	0.0	3.2	14.1	0.0	3.2	0.0	0.0	0.5
2nd-Term Q (Q2), veh/ln	0.0	3.5	19.3	0.0	2.3	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	6.7	33.4	0.0	5.5	0.0	0.0	0.5
%ile Storage Ratio (RQ%)	0.00	1.04	4.65	0.00	1.26	0.00	0.00	0.04
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	3.3	35.5	0.0	4.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.3	0.3	0.0	0.3	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	0	6	8	0
Lane Assignment				T			T	
Lanes in Grp	0	0	0	1	0	0	2	0
Grp Vol (v), veh/h	0	0	0	844	0	0	1308	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1641	0	0	1641	0
Q Serve Time (g_s), s	0.0	0.0	0.0	49.0	0.0	0.0	46.6	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	49.0	0.0	0.0	46.6	0.0
Lane Grp Cap (c), veh/h	0	0	0	670	0	0	1522	0
V/C Ratio (X)	0.00	0.00	0.00	1.26	0.00	0.00	0.86	0.00
Avail Cap (c_a), veh/h	0	0	0	670	0	0	2051	0
Upstream Filter (I)	0.00	0.00	0.00	0.09	0.00	0.00	0.85	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	35.5	0.0	0.0	47.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	118.2	0.0	0.0	2.5	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	153.7	0.0	0.0	49.5	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	22.1	0.0	0.0	21.2	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	22.0	0.0	0.0	0.5	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	44.2	0.0	0.0	21.7	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.23	0.00	0.00	0.39	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	43.6	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	0	14	0	16	18	0
Lane Assignment	T+R			T+R		T+R	R	
Lanes in Grp	1	0	0	1	0	1	1	0
Grp Vol (v), veh/h	354	0	0	880	0	100	14	0
Grp Sat Flow (s), veh/h/ln	1469	0	0	1684	0	1660	1468	0
Q Serve Time (g_s), s	17.0	0.0	0.0	49.0	0.0	6.6	1.0	0.0
Cycle Q Clear Time (g_c), s	17.0	0.0	0.0	49.0	0.0	6.6	1.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.99	0.00	0.00	0.15	0.00	0.23	1.00	0.00
Lane Grp Cap (c), veh/h	208	0	0	688	0	235	681	0
V/C Ratio (X)	1.70	0.00	0.00	1.28	0.00	0.43	0.02	0.00
Avail Cap (c_a), veh/h	208	0	0	688	0	235	918	0
Upstream Filter (I)	0.09	0.00	0.00	0.09	0.00	1.00	0.85	0.00
Uniform Delay (d1), s/veh	51.5	0.0	0.0	35.5	0.0	47.0	27.7	0.0
Incr Delay (d2), s/veh	317.1	0.0	0.0	126.8	0.0	5.5	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	368.6	0.0	0.0	162.3	0.0	52.6	27.7	0.0
1st-Term Q (Q1), veh/ln	6.9	0.0	0.0	22.7	0.0	3.0	0.4	0.0
2nd-Term Q (Q2), veh/ln	18.3	0.0	0.0	24.2	0.0	0.4	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	25.2	0.0	0.0	46.9	0.0	3.4	0.4	0.0
%ile Storage Ratio (RQ%)	0.03	0.00	0.00	0.25	0.00	0.16	0.06	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	36.5	0.0	0.0	48.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.4	0.0	0.0	0.3	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	147.4
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	17	1467	119	522	1203	13	103	2	324	100	71	21
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	18	1595	129	567	1308	14	112	2	352	109	77	23
Adj No. of Lanes	1	2	0	1	2	1	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	334	1257	101	425	1522	681	96	1	207	96	181	54
Arrive On Green	0.20	0.41	0.41	0.09	0.15	0.15	0.06	0.14	0.14	0.06	0.14	0.14
Sat Flow, veh/h	1645	3078	247	1645	3282	1468	1645	8	1461	1645	1278	382
Grp Volume(v), veh/h	18	844	880	567	1308	14	112	0	354	109	0	100
Grp Sat Flow(s),veh/h/ln	1645	1641	1684	1645	1641	1468	1645	0	1469	1645	0	1660
Q Serve(g_s), s	1.1	49.0	49.0	31.0	46.6	1.0	7.0	0.0	17.0	7.0	0.0	6.6
Cycle Q Clear(g_c), s	1.1	49.0	49.0	31.0	46.6	1.0	7.0	0.0	17.0	7.0	0.0	6.6
Prop In Lane	1.00		0.15	1.00		1.00	1.00		0.99	1.00		0.23
Lane Grp Cap(c), veh/h	334	670	688	425	1522	681	96	0	208	96	0	235
V/C Ratio(X)	0.05	1.26	1.28	1.33	0.86	0.02	1.17	0.00	1.70	1.14	0.00	0.43
Avail Cap(c_a), veh/h	334	670	688	425	2051	918	96	0	208	96	0	235
HCM Platoon Ratio	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.09	0.09	0.09	0.85	0.85	0.85	0.09	0.00	0.09	1.00	0.00	1.00
Uniform Delay (d), s/veh	38.5	35.5	35.5	54.9	47.0	27.7	56.5	0.0	51.5	56.5	0.0	47.0
Incr Delay (d2), s/veh	0.0	118.2	126.8	163.6	2.5	0.0	85.6	0.0	317.1	133.2	0.0	5.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	44.2	46.9	33.4	21.7	0.4	5.5	0.0	25.2	6.7	0.0	3.4
LnGrp Delay(d),s/veh	38.5	153.7	162.3	218.4	49.5	27.7	142.1	0.0	368.6	189.7	0.0	52.6
LnGrp LOS	D	F	F	F	D	C	F		F	F		D
Approach Vol, veh/h		1742			1889			466			209	
Approach Delay, s/veh		156.9			100.1			314.2			124.1	
Approach LOS		F			F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.0	21.0	35.0	53.0	11.0	21.0	28.4	59.6
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	7.0	17.0	31.0	49.0	7.0	17.0	5.0	75.0
Max Q Clear Time (g_c+I1), s	9.0	19.0	33.0	51.0	9.0	8.6	3.1	48.6
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	0.4	1.4	7.0

Intersection Summary	
HCM 2010 Ctrl Delay	147.4
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL2	NBL	NBR	SEL	SER	SER2
Lane Configurations												
Volume (veh/h)	2	1606	122	167	1129	1	0	26	103	0	0	0
Number	7	4	14	3	8	18	5	5	12	1	16	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	2	1746	133	182	1227	1	0	0	112	0	0	0
Adj No. of Lanes	1	2	1	1	2	0	1	1	0	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes	Yes		Yes		
Cap, veh/h	459	1808	809	206	1336	1	369	369	132	135	1	1
HCM Platoon Ratio	1.00	1.00	1.00	1.33	1.33	1.33	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.28	0.55	0.55	0.17	0.53	0.53	0.00	0.00	0.11	0.00	0.00	0.00
Ln Grp Delay, s/veh	31.2	27.9	1.7	69.8	31.3	31.1	0.0	0.0	91.8	0.0	0.0	0.0
Ln Grp LOS	C	C	A	E	C	C			F			
Approach Vol, veh/h		1881			1410		140	140		0		
Approach Delay, s/veh		26.1			36.2		91.8	91.8		0.0		
Approach LOS		C			D		F	F				

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	6	5	8	7
Case No	4.0	2.0	2.0	3.0	3.0	2.0	4.0	2.0
Phs Duration (G+Y+Rc), s	17.1	13.8	19.0	70.1	0.0	30.9	51.6	37.5
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	17.0	4.0	16.0	67.0	17.0	4.0	79.0	4.0
Max Allow Headway (MAH), s	4.3	0.0	4.1	4.0	0.0	0.0	4.0	4.0
Max Q Clear (g_c+I1), s	12.9	0.0	15.0	63.3	0.0	0.0	42.1	2.1
Green Ext Time (g_e), s	0.1	0.0	0.1	2.8	0.0	0.0	5.6	1.5
Prob of Phs Call (p_c)	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.06
Prob of Max Out (p_x)	1.00	0.00	1.00	1.00	0.00	0.00	0.01	1.00

Left-Turn Movement Data								
Assigned Mvmt		1	3			5		7
Mvmt Sat Flow, veh/h		1645	1645			1645		1645

Through Movement Data								
Assigned Mvmt	2			4	6		8	
Mvmt Sat Flow, veh/h	303			3282	1727		3365	

Right-Turn Movement Data								
Assigned Mvmt	12			14	16		18	
Mvmt Sat Flow, veh/h	1211			1468	1468		3	

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	0	5	0	7
Lane Assignment		(Prot)	(Prot)			(Prot)		(Prot)
Lanes in Grp	0	1	1	0	0	1	0	1

Grp Vol (v), veh/h	0	0	182	0	0	0	0	2
Grp Sat Flow (s), veh/h/ln	0	1645	1645	0	0	1645	0	1645
Q Serve Time (g_s), s	0.0	0.0	13.0	0.0	0.0	0.0	0.0	0.1
Cycle Q Clear Time (g_c), s	0.0	0.0	13.0	0.0	0.0	0.0	0.0	0.1
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	135	206	0	0	369	0	459
V/C Ratio (X)	0.00	0.00	0.88	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	135	219	0	0	369	0	459
Upstream Filter (I)	0.00	0.00	0.58	0.00	0.00	0.00	0.00	0.09
Uniform Delay (d1), s/veh	0.0	0.0	49.2	0.0	0.0	0.0	0.0	31.2
Incr Delay (d2), s/veh	0.0	0.0	20.6	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	69.8	0.0	0.0	0.0	0.0	31.2
1st-Term Q (Q1), veh/ln	0.0	0.0	5.9	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	7.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	6	0	8	0
Lane Assignment				T	T		T	
Lanes in Grp	0	0	0	2	1	0	1	0
Grp Vol (v), veh/h	0	0	0	1746	0	0	598	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1641	1727	0	1641	0
Q Serve Time (g_s), s	0.0	0.0	0.0	61.3	0.0	0.0	40.1	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	61.3	0.0	0.0	40.1	0.0
Lane Grp Cap (c), veh/h	0	0	0	1808	1	0	652	0
V/C Ratio (X)	0.00	0.00	0.00	0.97	0.00	0.00	0.92	0.00
Avail Cap (c_a), veh/h	0	0	0	1832	245	0	1080	0
Upstream Filter (I)	0.00	0.00	0.00	0.09	0.00	0.00	0.58	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	25.9	0.0	0.0	26.5	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	2.1	0.0	0.0	4.8	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	27.9	0.0	0.0	31.3	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	27.6	0.0	0.0	18.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.5	0.0	0.0	0.9	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	28.2	0.0	0.0	18.8	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.50	0.00	0.00	0.39	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	0	14	16	0	18	0
Lane Assignment	T+R			R	R		T+R	
Lanes in Grp	1	0	0	1	1	0	1	0
Grp Vol (v), veh/h	140	0	0	133	0	0	630	0
Grp Sat Flow (s), veh/h/ln	1514	0	0	1468	1468	0	1727	0
Q Serve Time (g_s), s	10.9	0.0	0.0	1.9	0.0	0.0	40.1	0.0
Cycle Q Clear Time (g_c), s	10.9	0.0	0.0	1.9	0.0	0.0	40.1	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.80	0.00	0.00	1.00	1.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	165	0	0	809	1	0	686	0
V/C Ratio (X)	0.85	0.00	0.00	0.16	0.00	0.00	0.92	0.00
Avail Cap (c_a), veh/h	214	0	0	820	208	0	1137	0
Upstream Filter (I)	1.00	0.00	0.00	0.09	0.00	0.00	0.58	0.00
Uniform Delay (d1), s/veh	52.5	0.0	0.0	1.7	0.0	0.0	26.5	0.0
Incr Delay (d2), s/veh	39.3	0.0	0.0	0.0	0.0	0.0	4.6	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	91.8	0.0	0.0	1.7	0.0	0.0	31.1	0.0
1st-Term Q (Q1), veh/ln	4.5	0.0	0.0	0.7	0.0	0.0	18.9	0.0
2nd-Term Q (Q2), veh/ln	1.8	0.0	0.0	0.0	0.0	0.0	0.9	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	6.3	0.0	0.0	0.7	0.0	0.0	19.8	0.0
%ile Storage Ratio (RQ%)	0.06	0.00	0.00	0.01	0.00	0.00	0.41	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	32.9
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL2	NBL	NBR	SEL	SER	SER2
Lane Configurations												
Volume (veh/h)	2	1606	122	167	1129	1	0	26	103	0	0	0
Number	7	4	14	3	8	18	5	5	12	1	16	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	2	1746	133	182	1227	1	0	0	112	0	0	0
Adj No. of Lanes	1	2	1	1	2	0	1	1	0	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	459	1808	809	206	1336	1	369	369	132	135	1	1
Arrive On Green	0.28	0.55	0.55	0.17	0.53	0.53	0.00	0.00	0.11	0.00	0.00	0.00
Sat Flow, veh/h	1645	3282	1468	1645	3365	3	1645	1645	1211	1645	1468	1468
Grp Volume(v), veh/h	2	1746	133	182	598	630	0	0	140	0	0	0
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1641	1727	1645	1645	1514	1645	1468	1468
Q Serve(g_s), s	0.1	61.3	1.9	13.0	40.1	40.1	0.0	0.0	10.9	0.0	0.0	0.0
Cycle Q Clear(g_c), s	0.1	61.3	1.9	13.0	40.1	40.1	0.0	0.0	10.9	0.0	0.0	0.0
Prop In Lane	1.00		1.00	1.00		0.00	1.00	1.00	0.80	1.00	1.00	1.00
Lane Grp Cap(c), veh/h	459	1808	809	206	652	686	369	369	165	135	1	1
V/C Ratio(X)	0.00	0.97	0.16	0.88	0.92	0.92	0.00	0.00	0.85	0.00	0.00	0.00
Avail Cap(c_a), veh/h	459	1832	820	219	1080	1137	369	369	214	135	208	208
HCM Platoon Ratio	1.00	1.00	1.00	1.33	1.33	1.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.09	0.09	0.09	0.58	0.58	0.58	0.00	0.00	1.00	0.00	0.00	0.00
Uniform Delay (d), s/veh	31.2	25.9	1.7	49.2	26.5	26.5	0.0	0.0	52.5	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	2.1	0.0	20.6	4.8	4.6	0.0	0.0	39.3	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	28.2	0.7	7.0	18.8	19.8	0.0	0.0	6.3	0.0	0.0	0.0
LnGrp Delay(d),s/veh	31.2	27.9	1.7	69.8	31.3	31.1	0.0	0.0	91.8	0.0	0.0	0.0
LnGrp LOS	C	C	A	E	C	C			F			
Approach Vol, veh/h		1881			1410		140	140		0		
Approach Delay, s/veh		26.1			36.2		91.8	91.8		0.0		
Approach LOS		C			D		F	F				

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.8	17.1	19.0	70.1	30.9	0.0	37.5	51.6
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	4.0	17.0	16.0	67.0	4.0	17.0	4.0	79.0
Max Q Clear Time (g_c+I1), s	0.0	12.9	15.0	63.3	0.0	0.0	2.1	42.1
Green Ext Time (p_c), s	0.0	0.1	0.1	2.8	0.0	0.0	1.5	5.6

Intersection Summary	
HCM 2010 Ctrl Delay	32.9
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL2	SBL	SBR	NWL	NWR	NWR2
Lane Configurations												
Volume (veh/h)	160	1014	372	0	1518	48	0	230	220	0	0	0
Number	7	4	14	3	8	18	1	1	16	5	12	12
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	0	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	174	1102	404	0	1650	52	0	0	239	0	0	0
Adj No. of Lanes	1	2	1	0	3	1	2	2	1	2	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	0	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			No			Yes	Yes		Yes		
Cap, veh/h	203	1976	884	0	2099	653	120	120	486	120	486	486
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.12	0.60	0.60	0.00	0.45	0.45	0.00	0.00	0.33	0.00	0.00	0.00
Ln Grp Delay, s/veh	54.3	14.4	13.2	0.0	28.9	19.2	0.0	0.0	32.8	0.0	0.0	0.0
Ln Grp LOS	D	B	B		C	B			C			
Approach Vol, veh/h		1680			1702		239	239		0		
Approach Delay, s/veh		18.2			28.6		32.8	32.8		0.0		
Approach LOS		B			C		C	C				

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6	7	8
Case No		5.0		3.0		5.0	2.0	7.0
Phs Duration (G+Y+Rc), s		43.8		76.2		43.8	18.8	57.4
Change Period (Y+Rc), s		4.0		4.0		4.0	4.0	4.0
Max Green (Gmax), s		22.0		90.0		22.0	28.0	58.0
Max Allow Headway (MAH), s		0.0		4.1		4.4	4.1	4.1
Max Q Clear (g_c+I1), s		0.0		26.1		17.6	14.4	37.8
Green Ext Time (g_e), s		0.0		32.4		0.4	0.4	15.6
Prob of Phs Call (p_c)		1.00		1.00		1.00	1.00	1.00
Prob of Max Out (p_x)		0.00		0.30		0.97	0.00	0.72

Left-Turn Movement Data								
Assigned Mvmt		5				1	7	3
Mvmt Sat Flow, veh/h		1625				3191	1645	0

Through Movement Data								
Assigned Mvmt		2		4		6		8
Mvmt Sat Flow, veh/h		3040		3282		0		4871

Right-Turn Movement Data								
Assigned Mvmt		12		14		16		18
Mvmt Sat Flow, veh/h		1468		1468		1468		1468

Left Lane Group Data								
Assigned Mvmt	0	5	0	0	0	1	7	3
Lane Assignment							(Prot)	
Lanes in Grp	0	2	0	0	0	2	1	0

Grp Vol (v), veh/h	0	0	0	0	0	0	174	0
Grp Sat Flow (s), veh/h/ln	0	813	0	0	0	1596	1645	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	12.4	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	12.4	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	813	0	0	0	1596	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.4
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	0.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	120	0	0	0	120	203	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.86	0.00
Avail Cap (c_a), veh/h	0	120	0	0	0	120	384	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	51.5	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	54.3	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	5.7	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	5.8	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	0	8
Lane Assignment		T		T				T
Lanes in Grp	0	2	0	2	0	0	0	3
Grp Vol (v), veh/h	0	0	0	1102	0	0	0	1650
Grp Sat Flow (s), veh/h/ln	0	1520	0	1641	0	0	0	1572
Q Serve Time (g_s), s	0.0	0.0	0.0	24.1	0.0	0.0	0.0	35.8
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	24.1	0.0	0.0	0.0	35.8
Lane Grp Cap (c), veh/h	0	1007	0	1976	0	0	0	2099
V/C Ratio (X)	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.79
Avail Cap (c_a), veh/h	0	1007	0	2461	0	0	0	2279
Upstream Filter (I)	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.26
Uniform Delay (d1), s/veh	0.0	0.0	0.0	14.3	0.0	0.0	0.0	28.4
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.5
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	14.4	0.0	0.0	0.0	28.9
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	10.9	0.0	0.0	0.0	15.4
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	10.9	0.0	0.0	0.0	15.5
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.21
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

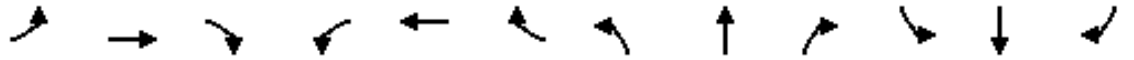
Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	0	18
Lane Assignment		R		R		R		R
Lanes in Grp	0	1	0	1	0	1	0	1
Grp Vol (v), veh/h	0	0	0	404	0	239	0	52
Grp Sat Flow (s), veh/h/ln	0	1468	0	1468	0	1468	0	1468
Q Serve Time (g_s), s	0.0	0.0	0.0	18.1	0.0	15.6	0.0	2.4
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	18.1	0.0	15.6	0.0	2.4
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	486	0	884	0	486	0	653
V/C Ratio (X)	0.00	0.00	0.00	0.46	0.00	0.49	0.00	0.08
Avail Cap (c_a), veh/h	0	486	0	1101	0	486	0	710
Upstream Filter (I)	0.00	0.00	0.00	0.25	0.00	1.00	0.00	0.26
Uniform Delay (d1), s/veh	0.0	0.0	0.0	13.1	0.0	32.0	0.0	19.2
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.1	0.0	0.8	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	13.2	0.0	32.8	0.0	19.2
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	7.3	0.0	13.2	0.0	1.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	7.3	0.0	13.3	0.0	1.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.15	0.00	0.17	0.00	0.13
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	24.1
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL2	SBL	SBR	NWL	NWR	NWR2
Lane Configurations												
Volume (veh/h)	160	1014	372	0	1518	48	0	230	220	0	0	0
Number	7	4	14	3	8	18	1	1	16	5	12	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	0	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	174	1102	404	0	1650	52	0	0	239	0	0	0
Adj No. of Lanes	1	2	1	0	3	1	2	2	1	2	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	0	10	10	10	10	10	10	10	10
Cap, veh/h	203	1976	884	0	2099	653	120	120	486	120	486	486
Arrive On Green	0.12	0.60	0.60	0.00	0.45	0.45	0.00	0.00	0.33	0.00	0.00	0.00
Sat Flow, veh/h	1645	3282	1468	0	4871	1468	3191	3191	1468	1625	1468	1468
Grp Volume(v), veh/h	174	1102	404	0	1650	52	0	0	239	0	0	0
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	0	1572	1468	1596	1596	1468	813	1468	1468
Q Serve(g_s), s	12.4	24.1	18.1	0.0	35.8	2.4	0.0	0.0	15.6	0.0	0.0	0.0
Cycle Q Clear(g_c), s	12.4	24.1	18.1	0.0	35.8	2.4	0.0	0.0	15.6	0.0	0.0	0.0
Prop In Lane	1.00		1.00	0.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lane Grp Cap(c), veh/h	203	1976	884	0	2099	653	120	120	486	120	486	486
V/C Ratio(X)	0.86	0.56	0.46	0.00	0.79	0.08	0.00	0.00	0.49	0.00	0.00	0.00
Avail Cap(c_a), veh/h	384	2461	1101	0	2279	710	120	120	486	120	486	486
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.25	0.25	0.25	0.00	0.26	0.26	0.00	0.00	1.00	0.00	0.00	0.00
Uniform Delay (d), s/veh	51.5	14.3	13.1	0.0	28.4	19.2	0.0	0.0	32.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	2.7	0.1	0.1	0.0	0.5	0.0	0.0	0.0	0.8	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.8	10.9	7.3	0.0	15.5	1.0	0.0	0.0	13.3	0.0	0.0	0.0
LnGrp Delay(d),s/veh	54.3	14.4	13.2	0.0	28.9	19.2	0.0	0.0	32.8	0.0	0.0	0.0
LnGrp LOS	D	B	B		C	B			C			
Approach Vol, veh/h		1680			1702		239	239		0		
Approach Delay, s/veh		18.2			28.6		32.8	32.8		0.0		
Approach LOS		B			C		C	C				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6	7	8
Phs Duration (G+Y+Rc), s		43.8		76.2		43.8	18.8	57.4
Change Period (Y+Rc), s		4.0		4.0		4.0	4.0	4.0
Max Green Setting (Gmax), s		22.0		90.0		22.0	28.0	58.0
Max Q Clear Time (g_c+I1), s		0.0		26.1		17.6	14.4	37.8
Green Ext Time (p_c), s		0.0		32.4		0.4	0.4	15.6

Intersection Summary	
HCM 2010 Ctrl Delay	24.1
HCM 2010 LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	624	954	87	201	794	189	129	648	152	122	356	119
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	678	1037	95	218	863	205	140	704	165	133	387	129
Adj No. of Lanes	2	2	1	2	2	1	2	1	1	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	665	1176	526	293	793	355	192	648	551	133	1170	523
HCM Platoon Ratio	1.33	1.33	1.33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.28	0.48	0.48	0.09	0.24	0.24	0.06	0.38	0.38	0.04	0.36	0.36
Ln Grp Delay, s/veh	80.1	37.3	14.3	63.1	104.1	31.8	61.6	98.8	15.0	135.6	28.3	9.2
Ln Grp LOS	F	D	B	E	F	C	E	F	B	F	C	A
Approach Vol, veh/h		1810			1286			1009			649	
Approach Delay, s/veh		52.1			85.6			79.9			46.5	
Approach LOS		D			F			E			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	5	6	8	7
Case No	2.0	3.0	3.0	2.0	2.0	3.0	3.0	2.0
Phs Duration (G+Y+Rc), s	9.0	49.0	47.0	15.0	11.2	46.8	33.0	29.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	5.0	45.0	43.0	11.0	10.0	40.0	29.0	25.0
Max Allow Headway (MAH), s	4.1	4.1	4.0	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	7.0	47.0	36.2	10.0	7.2	12.3	31.0	27.0
Green Ext Time (g_e), s	0.0	0.0	3.0	0.5	0.1	6.4	0.0	0.0
Prob of Phs Call (p_c)	0.99	1.00	1.00	1.00	0.99	1.00	1.00	1.00
Prob of Max Out (p_x)	1.00	1.00	0.00	1.00	1.00	0.05	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt	1			3	5			7
Mvmt Sat Flow, veh/h	3191			3191	3191			3191

Through Movement Data								
Assigned Mvmt		2	4			6	8	
Mvmt Sat Flow, veh/h		1727	3282			3282	3282	

Right-Turn Movement Data								
Assigned Mvmt		12	14			16	18	
Mvmt Sat Flow, veh/h		1468	1468			1468	1468	

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	5	0	0	7
Lane Assignment	(Prot)			(Prot)	(Prot)			(Prot)
Lanes in Grp	2	0	0	2	2	0	0	2

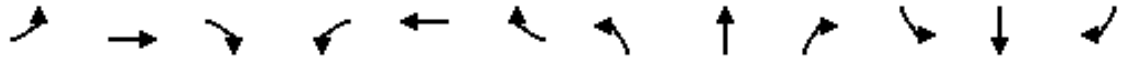
Grp Vol (v), veh/h	133	0	0	218	140	0	0	678
Grp Sat Flow (s), veh/h/ln	1596	0	0	1596	1596	0	0	1596
Q Serve Time (g_s), s	5.0	0.0	0.0	8.0	5.2	0.0	0.0	25.0
Cycle Q Clear Time (g_c), s	5.0	0.0	0.0	8.0	5.2	0.0	0.0	25.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	133	0	0	293	192	0	0	665
V/C Ratio (X)	1.00	0.00	0.00	0.75	0.73	0.00	0.00	1.02
Avail Cap (c_a), veh/h	133	0	0	293	266	0	0	665
Upstream Filter (I)	1.00	0.00	0.00	1.00	1.00	0.00	0.00	0.82
Uniform Delay (d1), s/veh	57.5	0.0	0.0	53.1	55.4	0.0	0.0	43.4
Incr Delay (d2), s/veh	78.1	0.0	0.0	9.9	6.2	0.0	0.0	36.7
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	135.6	0.0	0.0	63.1	61.6	0.0	0.0	80.1
1st-Term Q (Q1), veh/ln	2.2	0.0	0.0	3.5	2.3	0.0	0.0	11.0
2nd-Term Q (Q2), veh/ln	1.4	0.0	0.0	0.4	0.2	0.0	0.0	3.4
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	3.6	0.0	0.0	3.9	2.4	0.0	0.0	14.3
%ile Storage Ratio (RQ%)	0.40	0.00	0.00	0.48	0.13	0.00	0.00	1.84
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	0	6	8	0
Lane Assignment		T	T			T	T	
Lanes in Grp	0	1	2	0	0	2	2	0
Grp Vol (v), veh/h	0	704	1037	0	0	387	863	0
Grp Sat Flow (s), veh/h/ln	0	1727	1641	0	0	1641	1641	0
Q Serve Time (g_s), s	0.0	45.0	34.2	0.0	0.0	10.3	29.0	0.0
Cycle Q Clear Time (g_c), s	0.0	45.0	34.2	0.0	0.0	10.3	29.0	0.0
Lane Grp Cap (c), veh/h	0	648	1176	0	0	1170	793	0
V/C Ratio (X)	0.00	1.09	0.88	0.00	0.00	0.33	1.09	0.00
Avail Cap (c_a), veh/h	0	648	1176	0	0	1170	793	0
Upstream Filter (I)	0.00	1.00	0.82	0.00	0.00	1.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	37.5	29.1	0.0	0.0	28.2	45.5	0.0
Incr Delay (d2), s/veh	0.0	61.3	8.1	0.0	0.0	0.2	58.6	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	98.8	37.3	0.0	0.0	28.3	104.1	0.0
1st-Term Q (Q1), veh/ln	0.0	21.4	15.4	0.0	0.0	4.7	13.1	0.0
2nd-Term Q (Q2), veh/ln	0.0	11.0	1.3	0.0	0.0	0.0	6.5	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	32.4	16.7	0.0	0.0	4.7	19.6	0.0
%ile Storage Ratio (RQ%)	0.00	0.26	0.23	0.00	0.00	0.01	0.05	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	14.1	0.0	0.0	0.0	0.0	17.5	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.3	0.0	0.0	0.0	0.0	0.3	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	14	0	0	16	18	0
Lane Assignment		R	R			R	R	
Lanes in Grp	0	1	1	0	0	1	1	0
Grp Vol (v), veh/h	0	165	95	0	0	129	205	0
Grp Sat Flow (s), veh/h/ln	0	1468	1468	0	0	1468	1468	0
Q Serve Time (g_s), s	0.0	7.1	3.6	0.0	0.0	4.3	12.7	0.0
Cycle Q Clear Time (g_c), s	0.0	7.1	3.6	0.0	0.0	4.3	12.7	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	1.00	0.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	551	526	0	0	523	355	0
V/C Ratio (X)	0.00	0.30	0.18	0.00	0.00	0.25	0.58	0.00
Avail Cap (c_a), veh/h	0	551	526	0	0	523	355	0
Upstream Filter (I)	0.00	1.00	0.82	0.00	0.00	1.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	14.7	13.7	0.0	0.0	8.9	29.5	0.0
Incr Delay (d2), s/veh	0.0	0.3	0.6	0.0	0.0	0.2	2.3	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	15.0	14.3	0.0	0.0	9.2	31.8	0.0
1st-Term Q (Q1), veh/ln	0.0	2.8	1.4	0.0	0.0	1.7	5.1	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	2.9	1.5	0.0	0.0	1.8	5.4	0.0
%ile Storage Ratio (RQ%)	0.00	0.24	0.20	0.00	0.00	0.20	0.65	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	66.3
HCM 2010 LOS	E



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	624	954	87	201	794	189	129	648	152	122	356	119
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	678	1037	95	218	863	205	140	704	165	133	387	129
Adj No. of Lanes	2	2	1	2	2	1	2	1	1	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	665	1176	526	293	793	355	192	648	551	133	1170	523
Arrive On Green	0.28	0.48	0.48	0.09	0.24	0.24	0.06	0.38	0.38	0.04	0.36	0.36
Sat Flow, veh/h	3191	3282	1468	3191	3282	1468	3191	1727	1468	3191	3282	1468
Grp Volume(v), veh/h	678	1037	95	218	863	205	140	704	165	133	387	129
Grp Sat Flow(s),veh/h/ln	1596	1641	1468	1596	1641	1468	1596	1727	1468	1596	1641	1468
Q Serve(g_s), s	25.0	34.2	3.6	8.0	29.0	12.7	5.2	45.0	7.1	5.0	10.3	4.3
Cycle Q Clear(g_c), s	25.0	34.2	3.6	8.0	29.0	12.7	5.2	45.0	7.1	5.0	10.3	4.3
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	665	1176	526	293	793	355	192	648	551	133	1170	523
V/C Ratio(X)	1.02	0.88	0.18	0.75	1.09	0.58	0.73	1.09	0.30	1.00	0.33	0.25
Avail Cap(c_a), veh/h	665	1176	526	293	793	355	266	648	551	133	1170	523
HCM Platoon Ratio	1.33	1.33	1.33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.82	0.82	0.82	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	43.4	29.1	13.7	53.1	45.5	29.5	55.4	37.5	14.7	57.5	28.2	8.9
Incr Delay (d2), s/veh	36.7	8.1	0.6	9.9	58.6	2.3	6.2	61.3	0.3	78.1	0.2	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	14.3	16.7	1.5	3.9	19.6	5.4	2.4	32.4	2.9	3.6	4.7	1.8
LnGrp Delay(d),s/veh	80.1	37.3	14.3	63.1	104.1	31.8	61.6	98.8	15.0	135.6	28.3	9.2
LnGrp LOS	F	D	B	E	F	C	E	F	B	F	C	A
Approach Vol, veh/h		1810			1286			1009			649	
Approach Delay, s/veh		52.1			85.6			79.9			46.5	
Approach LOS		D			F			E			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.0	49.0	15.0	47.0	11.2	46.8	29.0	33.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	5.0	45.0	11.0	43.0	10.0	40.0	25.0	29.0
Max Q Clear Time (g_c+I1), s	7.0	47.0	10.0	36.2	7.2	12.3	27.0	31.0
Green Ext Time (p_c), s	0.0	0.0	0.5	3.0	0.1	6.4	0.0	0.0

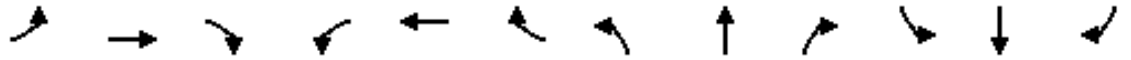
Intersection Summary	
HCM 2010 Ctrl Delay	66.3
HCM 2010 LOS	E

Intersection	
Intersection Delay, s/veh	44.5
Intersection LOS	E

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Vol, veh/h	0	150	427	218	0	65	274	22	0	44	68	64	0	19	248	180
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	163	464	237	0	71	298	24	0	48	74	70	0	21	270	196
Number of Lanes	0	0	1	1	0	0	1	1	0	0	1	0	0	0	1	1

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	2	2	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	2	1	2	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	2	2	2
HCM Control Delay	58.6	49.2	21.7	24.6
HCM LOS	F	E	C	C

Lane	NBLn1	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1	SBLn2
Vol Left, %	25%	26%	0%	19%	0%	7%	0%
Vol Thru, %	39%	74%	0%	81%	0%	93%	0%
Vol Right, %	36%	0%	100%	0%	100%	0%	100%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	176	577	218	339	22	267	180
LT Vol	44	150	0	65	0	19	0
Through Vol	68	427	0	274	0	248	0
RT Vol	64	0	218	0	22	0	180
Lane Flow Rate	191	627	237	368	24	290	196
Geometry Grp	6	7	7	7	7	7	7
Degree of Util (X)	0.502	1	0.509	0.894	0.053	0.704	0.435
Departure Headway (Hd)	9.446	8.598	7.735	8.732	7.933	8.736	8.001
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	383	426	464	416	451	415	450
Service Time	7.501	6.363	5.5	6.478	5.679	6.479	5.744
HCM Lane V/C Ratio	0.499	1.472	0.511	0.885	0.053	0.699	0.436
HCM Control Delay	21.7	73.8	18.3	51.7	11.1	29.8	16.8
HCM Lane LOS	C	F	C	F	B	D	C
HCM 95th-tile Q	2.7	12.5	2.8	9.3	0.2	5.3	2.2



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	76	170	30	131	205	110	83	213	21	106	365	53
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	83	185	33	142	223	120	90	232	23	115	397	58
Adj No. of Lanes	1	2	0	1	2	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	109	261	46	190	298	154	730	313	31	839	487	71
HCM Platoon Ratio	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.07	0.09	0.09	0.04	0.05	0.05	0.44	0.10	0.10	0.51	0.17	0.17
Ln Grp Delay, s/veh	51.5	45.3	45.9	47.1	45.3	46.7	14.8	63.6	64.4	11.7	58.0	58.9
Ln Grp LOS	D	D	D	D	D	D	B	E	E	B	E	E
Approach Vol, veh/h		301			485			345			570	
Approach Delay, s/veh		47.2			46.3			51.1			49.0	
Approach LOS		D			D			D			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	6	5	8	7
Case No	4.0	2.0	4.0	2.0	4.0	2.0	4.0	2.0
Phs Duration (G+Y+Rc), s	13.3	49.9	12.4	14.4	19.2	44.0	16.8	10.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	18.0	19.0	19.0	18.0	24.0	13.0	24.0	13.0
Max Allow Headway (MAH), s	4.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	8.8	5.3	7.9	9.7	14.1	4.9	11.8	6.5
Green Ext Time (g_e), s	0.5	0.5	0.5	0.5	1.2	0.4	1.0	0.4
Prob of Phs Call (p_c)	1.00	1.00	1.00	0.97	1.00	0.89	1.00	0.87
Prob of Max Out (p_x)	0.04	0.00	0.01	0.06	0.08	0.06	0.02	0.20

Left-Turn Movement Data								
Assigned Mvmt		1		3		5		7
Mvmt Sat Flow, veh/h		1645		1645		1645		1645

Through Movement Data								
Assigned Mvmt	2		4		6		8	
Mvmt Sat Flow, veh/h	3019		2793		2877		2092	

Right-Turn Movement Data								
Assigned Mvmt	12		14		16		18	
Mvmt Sat Flow, veh/h	297		489		417		1085	

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	0	5	0	7
Lane Assignment		(Prot)		(Prot)		(Prot)		(Prot)
Lanes in Grp	0	1	0	1	0	1	0	1

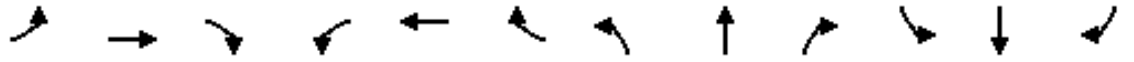
Grp Vol (v), veh/h	0	115	0	142	0	90	0	83
Grp Sat Flow (s), veh/h/ln	0	1645	0	1645	0	1645	0	1645
Q Serve Time (g_s), s	0.0	3.3	0.0	7.7	0.0	2.9	0.0	4.5
Cycle Q Clear Time (g_c), s	0.0	3.3	0.0	7.7	0.0	2.9	0.0	4.5
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	839	0	190	0	730	0	109
V/C Ratio (X)	0.00	0.14	0.00	0.75	0.00	0.12	0.00	0.76
Avail Cap (c_a), veh/h	0	839	0	329	0	730	0	238
Upstream Filter (I)	0.00	1.00	0.00	0.88	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	11.6	0.0	42.0	0.0	14.7	0.0	41.3
Incr Delay (d2), s/veh	0.0	0.1	0.0	5.1	0.0	0.1	0.0	10.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	11.7	0.0	47.1	0.0	14.8	0.0	51.5
1st-Term Q (Q1), veh/ln	0.0	1.5	0.0	3.5	0.0	1.3	0.0	2.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.5	0.0	3.8	0.0	1.3	0.0	2.3
%ile Storage Ratio (RQ%)	0.00	0.31	0.00	0.60	0.00	0.17	0.00	0.32
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	6	0	8	0
Lane Assignment	T		T		T		T	
Lanes in Grp	1	0	1	0	1	0	1	0
Grp Vol (v), veh/h	125	0	107	0	225	0	173	0
Grp Sat Flow (s), veh/h/ln	1641	0	1641	0	1641	0	1641	0
Q Serve Time (g_s), s	6.7	0.0	5.7	0.0	11.9	0.0	9.4	0.0
Cycle Q Clear Time (g_c), s	6.7	0.0	5.7	0.0	11.9	0.0	9.4	0.0
Lane Grp Cap (c), veh/h	170	0	153	0	278	0	233	0
V/C Ratio (X)	0.74	0.00	0.70	0.00	0.81	0.00	0.74	0.00
Avail Cap (c_a), veh/h	328	0	346	0	438	0	438	0
Upstream Filter (I)	1.00	0.00	1.00	0.00	1.00	0.00	0.88	0.00
Uniform Delay (d1), s/veh	39.1	0.0	39.6	0.0	36.0	0.0	41.3	0.0
Incr Delay (d2), s/veh	24.4	0.0	5.7	0.0	22.0	0.0	4.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	63.6	0.0	45.3	0.0	58.0	0.0	45.3	0.0
1st-Term Q (Q1), veh/ln	3.0	0.0	2.6	0.0	5.4	0.0	4.3	0.0
2nd-Term Q (Q2), veh/ln	1.2	0.0	0.2	0.0	1.7	0.0	0.3	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	4.2	0.0	2.8	0.0	7.1	0.0	4.5	0.0
%ile Storage Ratio (RQ%)	0.25	0.00	0.01	0.00	0.02	0.00	0.05	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	16	0	18	0
Lane Assignment	T+R		T+R		T+R		T+R	
Lanes in Grp	1	0	1	0	1	0	1	0
Grp Vol (v), veh/h	130	0	111	0	230	0	170	0
Grp Sat Flow (s), veh/h/ln	1675	0	1641	0	1654	0	1536	0
Q Serve Time (g_s), s	6.8	0.0	5.9	0.0	12.1	0.0	9.8	0.0
Cycle Q Clear Time (g_c), s	6.8	0.0	5.9	0.0	12.1	0.0	9.8	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.18	0.00	0.30	0.00	0.25	0.00	0.71	0.00
Lane Grp Cap (c), veh/h	174	0	153	0	280	0	219	0
V/C Ratio (X)	0.75	0.00	0.72	0.00	0.82	0.00	0.78	0.00
Avail Cap (c_a), veh/h	335	0	346	0	441	0	410	0
Upstream Filter (I)	1.00	0.00	1.00	0.00	1.00	0.00	0.88	0.00
Uniform Delay (d1), s/veh	39.2	0.0	39.7	0.0	36.1	0.0	41.5	0.0
Incr Delay (d2), s/veh	25.2	0.0	6.3	0.0	22.9	0.0	5.2	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	64.4	0.0	45.9	0.0	58.9	0.0	46.7	0.0
1st-Term Q (Q1), veh/ln	3.1	0.0	2.7	0.0	5.5	0.0	4.2	0.0
2nd-Term Q (Q2), veh/ln	1.2	0.0	0.3	0.0	1.8	0.0	0.3	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	4.4	0.0	2.9	0.0	7.3	0.0	4.5	0.0
%ile Storage Ratio (RQ%)	0.26	0.00	0.02	0.00	0.02	0.00	0.05	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

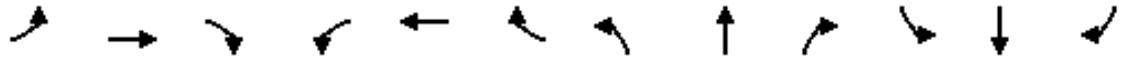
Intersection Summary	
HCM 2010 Ctrl Delay	48.4
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	76	170	30	131	205	110	83	213	21	106	365	53
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	83	185	33	142	223	120	90	232	23	115	397	58
Adj No. of Lanes	1	2	0	1	2	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	109	261	46	190	298	154	730	313	31	839	487	71
Arrive On Green	0.07	0.09	0.09	0.04	0.05	0.05	0.44	0.10	0.10	0.51	0.17	0.17
Sat Flow, veh/h	1645	2793	489	1645	2092	1085	1645	3019	297	1645	2877	417
Grp Volume(v), veh/h	83	107	111	142	173	170	90	125	130	115	225	230
Grp Sat Flow(s),veh/h/ln	1645	1641	1641	1645	1641	1536	1645	1641	1675	1645	1641	1654
Q Serve(g_s), s	4.5	5.7	5.9	7.7	9.4	9.8	2.9	6.7	6.8	3.3	11.9	12.1
Cycle Q Clear(g_c), s	4.5	5.7	5.9	7.7	9.4	9.8	2.9	6.7	6.8	3.3	11.9	12.1
Prop In Lane	1.00		0.30	1.00		0.71	1.00		0.18	1.00		0.25
Lane Grp Cap(c), veh/h	109	153	153	190	233	219	730	170	174	839	278	280
V/C Ratio(X)	0.76	0.70	0.72	0.75	0.74	0.78	0.12	0.74	0.75	0.14	0.81	0.82
Avail Cap(c_a), veh/h	238	346	346	329	438	410	730	328	335	839	438	441
HCM Platoon Ratio	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.88	0.88	0.88	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	41.3	39.6	39.7	42.0	41.3	41.5	14.7	39.1	39.2	11.6	36.0	36.1
Incr Delay (d2), s/veh	10.2	5.7	6.3	5.1	4.1	5.2	0.1	24.4	25.2	0.1	22.0	22.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.3	2.8	2.9	3.8	4.5	4.5	1.3	4.2	4.4	1.5	7.1	7.3
LnGrp Delay(d),s/veh	51.5	45.3	45.9	47.1	45.3	46.7	14.8	63.6	64.4	11.7	58.0	58.9
LnGrp LOS	D	D	D	D	D	D	B	E	E	B	E	E
Approach Vol, veh/h		301			485			345			570	
Approach Delay, s/veh		47.2			46.3			51.1			49.0	
Approach LOS		D			D			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	49.9	13.3	14.4	12.4	44.0	19.2	10.0	16.8
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	19.0	18.0	18.0	19.0	13.0	24.0	13.0	24.0
Max Q Clear Time (g_c+I1), s	5.3	8.8	9.7	7.9	4.9	14.1	6.5	11.8
Green Ext Time (p_c), s	0.5	0.5	0.5	0.5	0.4	1.2	0.4	1.0

Intersection Summary	
HCM 2010 Ctrl Delay	48.4
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	91	90	96	352	306	228	101	291	94	245	561	69
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	99	98	104	383	333	248	110	316	102	266	610	75
Adj No. of Lanes	1	2	0	1	2	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	124	310	277	489	744	543	167	381	121	298	690	85
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.08	0.19	0.19	0.30	0.41	0.41	0.10	0.16	0.16	0.18	0.23	0.23
Ln Grp Delay, s/veh	50.5	33.7	35.1	37.1	21.3	21.7	47.9	52.1	55.4	61.5	50.4	50.6
Ln Grp LOS	D	C	D	D	C	C	D	D	E	E	D	D
Approach Vol, veh/h		301			964			528			951	
Approach Delay, s/veh		39.7			27.7			52.5			53.6	
Approach LOS		D			C			D			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	6	5	7	8
Case No	2.0	4.0	4.0	2.0	4.0	2.0	2.0	4.0
Phs Duration (G+Y+Rc), s	20.3	18.0	21.0	30.7	25.1	13.2	10.8	40.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	17.0	16.0	17.0	24.0	24.0	9.0	11.0	30.0
Max Allow Headway (MAH), s	4.1	4.1	4.2	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	16.2	13.5	7.6	21.2	20.1	7.8	7.3	14.2
Green Ext Time (g_e), s	0.1	0.5	0.4	0.5	1.1	0.3	0.1	3.4
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	0.94	0.92	1.00
Prob of Max Out (p_x)	1.00	1.00	0.00	1.00	1.00	1.00	1.00	0.00

Left-Turn Movement Data								
Assigned Mvmt	1			3		5	7	
Mvmt Sat Flow, veh/h	1645			1645		1645	1645	

Through Movement Data								
Assigned Mvmt		2	4		6			8
Mvmt Sat Flow, veh/h		2453	1641		2943			1812

Right-Turn Movement Data								
Assigned Mvmt		12	14		16			18
Mvmt Sat Flow, veh/h		778	1468		361			1323

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	0	5	7	0
Lane Assignment	(Prot)			(Prot)		(Prot)	(Prot)	
Lanes in Grp	1	0	0	1	0	1	1	0

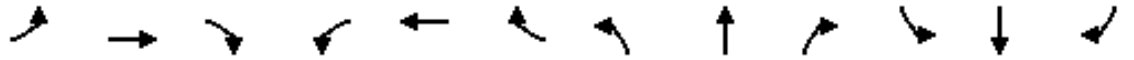
Grp Vol (v), veh/h	266	0	0	383	0	110	99	0
Grp Sat Flow (s), veh/h/ln	1645	0	0	1645	0	1645	1645	0
Q Serve Time (g_s), s	14.2	0.0	0.0	19.2	0.0	5.8	5.3	0.0
Cycle Q Clear Time (g_c), s	14.2	0.0	0.0	19.2	0.0	5.8	5.3	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	298	0	0	489	0	167	124	0
V/C Ratio (X)	0.89	0.00	0.00	0.78	0.00	0.66	0.80	0.00
Avail Cap (c_a), veh/h	311	0	0	489	0	167	201	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	1.00	0.85	0.00
Uniform Delay (d1), s/veh	36.0	0.0	0.0	29.0	0.0	38.9	40.9	0.0
Incr Delay (d2), s/veh	25.5	0.0	0.0	8.2	0.0	9.0	9.6	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	61.5	0.0	0.0	37.1	0.0	47.9	50.5	0.0
1st-Term Q (Q1), veh/ln	6.4	0.0	0.0	8.7	0.0	2.6	2.4	0.0
2nd-Term Q (Q2), veh/ln	2.1	0.0	0.0	1.1	0.0	0.4	0.3	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	8.5	0.0	0.0	9.8	0.0	3.0	2.7	0.0
%ile Storage Ratio (RQ%)	2.24	0.00	0.00	4.50	0.00	0.66	0.41	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	6	0	0	8
Lane Assignment		T	T		T			T
Lanes in Grp	0	1	1	0	1	0	0	1
Grp Vol (v), veh/h	0	210	98	0	340	0	0	301
Grp Sat Flow (s), veh/h/ln	0	1641	1641	0	1641	0	0	1641
Q Serve Time (g_s), s	0.0	11.1	4.6	0.0	18.0	0.0	0.0	11.9
Cycle Q Clear Time (g_c), s	0.0	11.1	4.6	0.0	18.0	0.0	0.0	11.9
Lane Grp Cap (c), veh/h	0	255	310	0	385	0	0	674
V/C Ratio (X)	0.00	0.82	0.32	0.00	0.88	0.00	0.00	0.45
Avail Cap (c_a), veh/h	0	292	310	0	438	0	0	674
Upstream Filter (I)	0.00	1.00	0.85	0.00	1.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	36.8	31.5	0.0	33.2	0.0	0.0	19.1
Incr Delay (d2), s/veh	0.0	15.3	2.3	0.0	17.2	0.0	0.0	2.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	52.1	33.7	0.0	50.4	0.0	0.0	21.3
1st-Term Q (Q1), veh/ln	0.0	5.1	2.1	0.0	8.1	0.0	0.0	5.3
2nd-Term Q (Q2), veh/ln	0.0	1.1	0.2	0.0	1.8	0.0	0.0	0.4

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	6.1	2.3	0.0	9.9	0.0	0.0	5.7
%ile Storage Ratio (RQ%)	0.00	0.39	0.02	0.00	0.06	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	14	0	16	0	0	18
Lane Assignment		T+R	T+R		T+R			T+R
Lanes in Grp	0	1	1	0	1	0	0	1
Grp Vol (v), veh/h	0	208	104	0	345	0	0	280
Grp Sat Flow (s), veh/h/ln	0	1590	1468	0	1664	0	0	1494
Q Serve Time (g_s), s	0.0	11.5	5.6	0.0	18.1	0.0	0.0	12.2
Cycle Q Clear Time (g_c), s	0.0	11.5	5.6	0.0	18.1	0.0	0.0	12.2
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.49	1.00	0.00	0.22	0.00	0.00	0.89
Lane Grp Cap (c), veh/h	0	247	277	0	390	0	0	613
V/C Ratio (X)	0.00	0.84	0.38	0.00	0.89	0.00	0.00	0.46
Avail Cap (c_a), veh/h	0	283	277	0	444	0	0	613
Upstream Filter (I)	0.00	1.00	0.85	0.00	1.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	37.0	31.9	0.0	33.3	0.0	0.0	19.2
Incr Delay (d2), s/veh	0.0	18.4	3.3	0.0	17.4	0.0	0.0	2.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	55.4	35.1	0.0	50.6	0.0	0.0	21.7
1st-Term Q (Q1), veh/ln	0.0	5.0	2.3	0.0	8.3	0.0	0.0	5.1
2nd-Term Q (Q2), veh/ln	0.0	1.3	0.3	0.0	1.9	0.0	0.0	0.4
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	6.3	2.5	0.0	10.1	0.0	0.0	5.5
%ile Storage Ratio (RQ%)	0.00	0.40	0.03	0.00	0.06	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	42.8
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	91	90	96	352	306	228	101	291	94	245	561	69
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	99	98	104	383	333	248	110	316	102	266	610	75
Adj No. of Lanes	1	2	0	1	2	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	124	310	277	489	744	543	167	381	121	298	690	85
Arrive On Green	0.08	0.19	0.19	0.30	0.41	0.41	0.10	0.16	0.16	0.18	0.23	0.23
Sat Flow, veh/h	1645	1641	1468	1645	1812	1323	1645	2453	778	1645	2943	361
Grp Volume(v), veh/h	99	98	104	383	301	280	110	210	208	266	340	345
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1641	1494	1645	1641	1590	1645	1641	1664
Q Serve(g_s), s	5.3	4.6	5.6	19.2	11.9	12.2	5.8	11.1	11.5	14.2	18.0	18.1
Cycle Q Clear(g_c), s	5.3	4.6	5.6	19.2	11.9	12.2	5.8	11.1	11.5	14.2	18.0	18.1
Prop In Lane	1.00		1.00	1.00		0.89	1.00		0.49	1.00		0.22
Lane Grp Cap(c), veh/h	124	310	277	489	674	613	167	255	247	298	385	390
V/C Ratio(X)	0.80	0.32	0.38	0.78	0.45	0.46	0.66	0.82	0.84	0.89	0.88	0.89
Avail Cap(c_a), veh/h	201	310	277	489	674	613	167	292	283	311	438	444
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.85	0.85	0.85	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	40.9	31.5	31.9	29.0	19.1	19.2	38.9	36.8	37.0	36.0	33.2	33.3
Incr Delay (d2), s/veh	9.6	2.3	3.3	8.2	2.1	2.4	9.0	15.3	18.4	25.5	17.2	17.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.7	2.3	2.5	9.8	5.7	5.5	3.0	6.1	6.3	8.5	9.9	10.1
LnGrp Delay(d),s/veh	50.5	33.7	35.1	37.1	21.3	21.7	47.9	52.1	55.4	61.5	50.4	50.6
LnGrp LOS	D	C	D	D	C	C	D	D	E	E	D	D
Approach Vol, veh/h		301			964			528			951	
Approach Delay, s/veh		39.7			27.7			52.5			53.6	
Approach LOS		D			C			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	20.3	18.0	30.7	21.0	13.2	25.1	10.8	40.9
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	16.3	14.0	24.0	17.0	9.0	24.0	11.0	30.0
Max Q Clear Time (g_c+I1), s	16.2	13.5	21.2	7.6	7.8	20.1	7.3	14.2
Green Ext Time (p_c), s	0.1	0.5	0.5	0.4	0.3	1.1	0.1	3.4

Intersection Summary	
HCM 2010 Ctrl Delay	42.8
HCM 2010 LOS	D

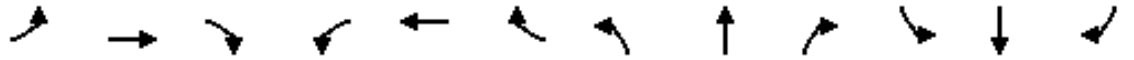
Intersection	
Int Delay, s/veh	5.4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	96	546	49	50	179	53
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	104	593	53	54	195	58

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	698	0	562	401
Stage 1	-	-	-	-	401	-
Stage 2	-	-	-	-	161	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	862	-	475	632
Stage 1	-	-	-	-	659	-
Stage 2	-	-	-	-	849	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	862	-	445	632
Mov Cap-2 Maneuver	-	-	-	-	445	-
Stage 1	-	-	-	-	659	-
Stage 2	-	-	-	-	796	-

Approach	EB	WB	NB
HCM Control Delay, s	0	4.7	20.7
HCM LOS			C

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	477	-	-	862	-
HCM Lane V/C Ratio	0.529	-	-	0.062	-
HCM Control Delay (s)	20.7	-	-	9.5	0
HCM Lane LOS	C	-	-	A	A
HCM 95th %tile Q(veh)	3	-	-	0.2	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	372	1091	180	509	981	365	350	1088	346	249	1085	152
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	404	1186	196	553	1066	397	380	1183	376	271	1179	165
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	219	766	343	288	902	404	206	691	587	186	1094	489
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.13	0.23	0.23	0.17	0.28	0.28	0.13	0.40	0.40	0.06	0.33	0.33
Ln Grp Delay, s/veh	448.0	299.4	43.0	465.1	126.2	39.5	452.3	362.7	15.6	265.1	77.4	30.3
Ln Grp LOS	F	F	D	F	F	D	F	F	B	F	F	C
Approach Vol, veh/h		1786			2016			1939			1615	
Approach Delay, s/veh		304.9			202.1			312.9			104.1	
Approach LOS		F			F			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	5	6	7	8
Case No	3.0	2.0	2.0	3.0	2.0	3.0	2.0	3.0
Phs Duration (G+Y+Rc), s	52.0	11.0	25.0	32.0	19.0	44.0	20.0	37.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	48.0	7.0	21.0	28.0	15.0	40.0	16.0	33.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	50.0	9.0	23.0	30.0	17.0	42.0	18.0	35.0
Green Ext Time (g_e), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prob of Max Out (p_x)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt		1	3		5		7	
Mvmt Sat Flow, veh/h		3191	1645		1645		1645	

Through Movement Data								
Assigned Mvmt	2			4		6		8
Mvmt Sat Flow, veh/h	1727			3282		3282		3282

Right-Turn Movement Data								
Assigned Mvmt	12			14		16		18
Mvmt Sat Flow, veh/h	1468			1468		1468		1468

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	5	0	7	0
Lane Assignment		(Prot)	(Prot)		(Prot)		(Prot)	
Lanes in Grp	0	2	1	0	1	0	1	0

Grp Vol (v), veh/h	0	271	553	0	380	0	404	0
Grp Sat Flow (s), veh/h/ln	0	1596	1645	0	1645	0	1645	0
Q Serve Time (g_s), s	0.0	7.0	21.0	0.0	15.0	0.0	16.0	0.0
Cycle Q Clear Time (g_c), s	0.0	7.0	21.0	0.0	15.0	0.0	16.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	186	288	0	206	0	219	0
V/C Ratio (X)	0.00	1.46	1.92	0.00	1.85	0.00	1.84	0.00
Avail Cap (c_a), veh/h	0	186	288	0	206	0	219	0
Upstream Filter (I)	0.00	0.11	0.09	0.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	56.5	49.5	0.0	52.5	0.0	52.0	0.0
Incr Delay (d2), s/veh	0.0	208.6	415.6	0.0	399.8	0.0	396.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	265.1	465.1	0.0	452.3	0.0	448.0	0.0
1st-Term Q (Q1), veh/ln	0.0	3.1	9.5	0.0	6.8	0.0	7.3	0.0
2nd-Term Q (Q2), veh/ln	0.0	5.4	33.2	0.0	22.8	0.0	24.1	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	8.5	42.7	0.0	29.6	0.0	31.4	0.0
%ile Storage Ratio (RQ%)	0.00	0.01	0.23	0.00	0.24	0.00	0.04	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	21.2	66.3	0.0	43.6	0.0	46.2	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.4	0.5	0.0	0.5	0.0	0.5	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	0	6	0	8
Lane Assignment	T			T		T		T
Lanes in Grp	1	0	0	2	0	2	0	2
Grp Vol (v), veh/h	1183	0	0	1186	0	1179	0	1066
Grp Sat Flow (s), veh/h/ln	1727	0	0	1641	0	1641	0	1641
Q Serve Time (g_s), s	48.0	0.0	0.0	28.0	0.0	40.0	0.0	33.0
Cycle Q Clear Time (g_c), s	48.0	0.0	0.0	28.0	0.0	40.0	0.0	33.0
Lane Grp Cap (c), veh/h	691	0	0	766	0	1094	0	903
V/C Ratio (X)	1.71	0.00	0.00	1.55	0.00	1.08	0.00	1.18
Avail Cap (c_a), veh/h	691	0	0	766	0	1094	0	903
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	0.11	0.00	0.09
Uniform Delay (d1), s/veh	36.0	0.0	0.0	46.0	0.0	40.0	0.0	43.5
Incr Delay (d2), s/veh	326.7	0.0	0.0	253.4	0.0	37.4	0.0	82.7
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	362.7	0.0	0.0	299.4	0.0	77.4	0.0	126.2
1st-Term Q (Q1), veh/ln	22.8	0.0	0.0	12.7	0.0	18.1	0.0	14.9
2nd-Term Q (Q2), veh/ln	62.7	0.0	0.0	27.0	0.0	5.7	0.0	10.4

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	85.5	0.0	0.0	39.6	0.0	23.8	0.0	25.3
%ile Storage Ratio (RQ%)	0.68	0.00	0.00	0.05	0.00	0.03	0.00	0.13
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	123.0	0.0	0.0	105.1	0.0	21.3	0.0	40.9
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.4	0.0	0.0	0.4	0.0	0.3	0.0	0.3

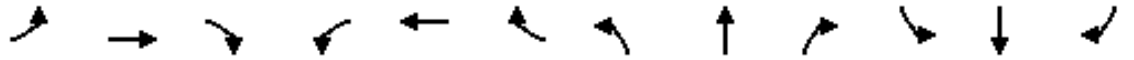
Right Lane Group Data								
Assigned Mvmt	12	0	0	14	0	16	0	18
Lane Assignment	R			R		R		R
Lanes in Grp	1	0	0	1	0	1	0	1
Grp Vol (v), veh/h	376	0	0	196	0	165	0	397
Grp Sat Flow (s), veh/h/ln	1468	0	0	1468	0	1468	0	1468
Q Serve Time (g_s), s	14.8	0.0	0.0	14.2	0.0	10.1	0.0	26.7
Cycle Q Clear Time (g_c), s	14.8	0.0	0.0	14.2	0.0	10.1	0.0	26.7
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	587	0	0	343	0	489	0	404
V/C Ratio (X)	0.64	0.00	0.00	0.57	0.00	0.34	0.00	0.98
Avail Cap (c_a), veh/h	587	0	0	343	0	489	0	404
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	0.11	0.00	0.09
Uniform Delay (d1), s/veh	10.4	0.0	0.0	40.7	0.0	30.0	0.0	29.6
Incr Delay (d2), s/veh	5.3	0.0	0.0	2.3	0.0	0.2	0.0	9.9
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	15.6	0.0	0.0	43.0	0.0	30.3	0.0	39.5
1st-Term Q (Q1), veh/ln	6.0	0.0	0.0	5.8	0.0	4.1	0.0	10.8
2nd-Term Q (Q2), veh/ln	0.9	0.0	0.0	0.2	0.0	0.0	0.0	1.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	6.8	0.0	0.0	6.0	0.0	4.2	0.0	11.9
%ile Storage Ratio (RQ%)	0.05	0.00	0.00	0.01	0.00	0.01	0.00	0.06
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	234.8
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	372	1091	180	509	981	365	350	1088	346	249	1085	152
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	404	1186	196	553	1066	397	380	1183	376	271	1179	165
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	219	766	343	288	902	404	206	691	587	186	1094	489
Arrive On Green	0.13	0.23	0.23	0.17	0.28	0.28	0.13	0.40	0.40	0.06	0.33	0.33
Sat Flow, veh/h	1645	3282	1468	1645	3282	1468	1645	1727	1468	3191	3282	1468
Grp Volume(v), veh/h	404	1186	196	553	1066	397	380	1183	376	271	1179	165
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1641	1468	1645	1727	1468	1596	1641	1468
Q Serve(g_s), s	16.0	28.0	14.2	21.0	33.0	26.7	15.0	48.0	14.8	7.0	40.0	10.1
Cycle Q Clear(g_c), s	16.0	28.0	14.2	21.0	33.0	26.7	15.0	48.0	14.8	7.0	40.0	10.1
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	219	766	343	288	903	404	206	691	587	186	1094	489
V/C Ratio(X)	1.84	1.55	0.57	1.92	1.18	0.98	1.85	1.71	0.64	1.46	1.08	0.34
Avail Cap(c_a), veh/h	219	766	343	288	903	404	206	691	587	186	1094	489
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.09	0.09	0.09	1.00	1.00	1.00	0.11	0.11	0.11
Uniform Delay (d), s/veh	52.0	46.0	40.7	49.5	43.5	29.6	52.5	36.0	10.4	56.5	40.0	30.0
Incr Delay (d2), s/veh	396.0	253.4	2.3	415.6	82.7	9.9	399.8	326.7	5.3	208.6	37.4	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	31.4	39.6	6.0	42.7	25.3	11.9	29.6	85.5	6.8	8.5	23.8	4.2
LnGrp Delay(d),s/veh	448.0	299.4	43.0	465.1	126.2	39.5	452.3	362.7	15.6	265.1	77.4	30.3
LnGrp LOS	F	F	D	F	F	D	F	F	B	F	F	C
Approach Vol, veh/h		1786			2016			1939			1615	
Approach Delay, s/veh		304.9			202.1			312.9			104.1	
Approach LOS		F			F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.0	52.0	25.0	32.0	19.0	44.0	20.0	37.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	7.0	48.0	21.0	28.0	15.0	40.0	16.0	33.0
Max Q Clear Time (g_c+I1), s	9.0	50.0	23.0	30.0	17.0	42.0	18.0	35.0
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	234.8
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	296	3539	315	418	1381	220	796	1391	224	314	3001	261
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	322	3847	342	454	1501	239	865	1512	243	341	3262	284
Adj No. of Lanes	2	2	1	2	2	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	160	1313	587	186	1340	600	319	1454	453	319	1454	453
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.05	0.40	0.40	0.06	0.41	0.41	0.10	0.31	0.31	0.10	0.31	0.31
Ln Grp Delay, s/veh	517.1	904.9	28.3	708.9	93.1	25.2	824.5	62.0	34.8	91.4	601.3	36.2
Ln Grp LOS	F	F	C	F	F	C	F	F	C	F	F	D
Approach Vol, veh/h		4511			2194			2620			3887	
Approach Delay, s/veh		810.8			213.1			311.2			515.3	
Approach LOS		F			F			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	6	5	8	7
Case No	3.0	2.0	3.0	2.0	3.0	2.0	3.0	2.0
Phs Duration (G+Y+Rc), s	41.0	16.0	52.0	11.0	41.0	16.0	53.0	10.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	37.0	12.0	48.0	7.0	37.0	12.0	49.0	6.0
Max Allow Headway (MAH), s	4.1	4.1	4.0	4.1	4.0	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	39.0	14.0	50.0	9.0	39.0	14.0	51.0	8.0
Green Ext Time (g_e), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prob of Max Out (p_x)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt		1		3		5		7
Mvmt Sat Flow, veh/h		3191		3191		3191		3191

Through Movement Data								
Assigned Mvmt	2		4		6		8	
Mvmt Sat Flow, veh/h	4715		3282		4715		3282	

Right-Turn Movement Data								
Assigned Mvmt	12		14		16		18	
Mvmt Sat Flow, veh/h	1468		1468		1468		1468	

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	0	5	0	7
Lane Assignment		(Prot)		(Prot)		(Prot)		(Prot)
Lanes in Grp	0	2	0	2	0	2	0	2

Grp Vol (v), veh/h	0	341	0	454	0	865	0	322
Grp Sat Flow (s), veh/h/ln	0	1596	0	1596	0	1596	0	1596
Q Serve Time (g_s), s	0.0	12.0	0.0	7.0	0.0	12.0	0.0	6.0
Cycle Q Clear Time (g_c), s	0.0	12.0	0.0	7.0	0.0	12.0	0.0	6.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	319	0	186	0	319	0	160
V/C Ratio (X)	0.00	1.07	0.00	2.44	0.00	2.71	0.00	2.02
Avail Cap (c_a), veh/h	0	319	0	186	0	319	0	160
Upstream Filter (I)	0.00	0.09	0.00	0.30	0.00	0.09	0.00	0.09
Uniform Delay (d1), s/veh	0.0	54.0	0.0	56.5	0.0	54.0	0.0	57.0
Incr Delay (d2), s/veh	0.0	37.4	0.0	652.4	0.0	770.5	0.0	460.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	91.4	0.0	708.9	0.0	824.5	0.0	517.1
1st-Term Q (Q1), veh/ln	0.0	5.3	0.0	3.1	0.0	5.3	0.0	2.6
2nd-Term Q (Q2), veh/ln	0.0	1.7	0.0	16.9	0.0	34.2	0.0	10.2
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	6.9	0.0	19.9	0.0	39.4	0.0	12.8
%ile Storage Ratio (RQ%)	0.00	0.01	0.00	0.04	0.00	0.10	0.00	0.07
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	5.5	0.0	67.0	0.0	136.5	0.0	40.6
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.3	0.0	0.6	0.0	0.7	0.0	0.5

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	6	0	8	0
Lane Assignment	T		T		T		T	
Lanes in Grp	3	0	2	0	3	0	2	0
Grp Vol (v), veh/h	1512	0	3847	0	3262	0	1501	0
Grp Sat Flow (s), veh/h/ln	1572	0	1641	0	1572	0	1641	0
Q Serve Time (g_s), s	37.0	0.0	48.0	0.0	37.0	0.0	49.0	0.0
Cycle Q Clear Time (g_c), s	37.0	0.0	48.0	0.0	37.0	0.0	49.0	0.0
Lane Grp Cap (c), veh/h	1454	0	1313	0	1454	0	1340	0
V/C Ratio (X)	1.04	0.00	2.93	0.00	2.24	0.00	1.12	0.00
Avail Cap (c_a), veh/h	1454	0	1313	0	1454	0	1340	0
Upstream Filter (I)	0.09	0.00	0.09	0.00	0.09	0.00	0.30	0.00
Uniform Delay (d1), s/veh	41.5	0.0	36.0	0.0	41.5	0.0	35.5	0.0
Incr Delay (d2), s/veh	20.5	0.0	868.9	0.0	559.8	0.0	57.6	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	62.0	0.0	904.9	0.0	601.3	0.0	93.1	0.0
1st-Term Q (Q1), veh/ln	16.0	0.0	21.7	0.0	16.0	0.0	22.1	0.0
2nd-Term Q (Q2), veh/ln	2.8	0.0	158.4	0.0	75.4	0.0	10.7	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	18.8	0.0	180.1	0.0	91.4	0.0	32.9	0.0
%ile Storage Ratio (RQ%)	0.05	0.00	0.95	0.00	0.12	0.00	0.07	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	14.5	0.0	633.6	0.0	452.0	0.0	40.2	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.3	0.0	0.7	0.0	0.6	0.0	0.3	0.0

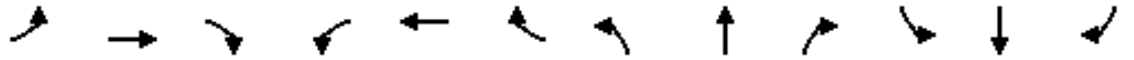
Right Lane Group Data								
Assigned Mvmt	12	0	14	0	16	0	18	0
Lane Assignment	R		R		R		R	
Lanes in Grp	1	0	1	0	1	0	1	0
Grp Vol (v), veh/h	243	0	342	0	284	0	239	0
Grp Sat Flow (s), veh/h/ln	1468	0	1468	0	1468	0	1468	0
Q Serve Time (g_s), s	16.5	0.0	21.9	0.0	19.9	0.0	13.8	0.0
Cycle Q Clear Time (g_c), s	16.5	0.0	21.9	0.0	19.9	0.0	13.8	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	453	0	587	0	453	0	600	0
V/C Ratio (X)	0.54	0.00	0.58	0.00	0.63	0.00	0.40	0.00
Avail Cap (c_a), veh/h	453	0	587	0	453	0	600	0
Upstream Filter (I)	0.09	0.00	0.09	0.00	0.09	0.00	0.30	0.00
Uniform Delay (d1), s/veh	34.4	0.0	28.2	0.0	35.6	0.0	25.1	0.0
Incr Delay (d2), s/veh	0.4	0.0	0.1	0.0	0.6	0.0	0.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	34.8	0.0	28.3	0.0	36.2	0.0	25.2	0.0
1st-Term Q (Q1), veh/ln	6.7	0.0	8.8	0.0	8.0	0.0	5.6	0.0
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	6.7	0.0	8.9	0.0	8.1	0.0	5.6	0.0
%ile Storage Ratio (RQ%)	0.02	0.00	0.05	0.00	0.01	0.00	0.01	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	525.5
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	296	3539	315	418	1381	220	796	1391	224	314	3001	261
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	322	3847	342	454	1501	239	865	1512	243	341	3262	284
Adj No. of Lanes	2	2	1	2	2	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	160	1313	587	186	1340	600	319	1454	453	319	1454	453
Arrive On Green	0.05	0.40	0.40	0.06	0.41	0.41	0.10	0.31	0.31	0.10	0.31	0.31
Sat Flow, veh/h	3191	3282	1468	3191	3282	1468	3191	4715	1468	3191	4715	1468
Grp Volume(v), veh/h	322	3847	342	454	1501	239	865	1512	243	341	3262	284
Grp Sat Flow(s),veh/h/ln	1596	1641	1468	1596	1641	1468	1596	1572	1468	1596	1572	1468
Q Serve(g_s), s	6.0	48.0	21.9	7.0	49.0	13.8	12.0	37.0	16.5	12.0	37.0	19.9
Cycle Q Clear(g_c), s	6.0	48.0	21.9	7.0	49.0	13.8	12.0	37.0	16.5	12.0	37.0	19.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	160	1313	587	186	1340	600	319	1454	453	319	1454	453
V/C Ratio(X)	2.02	2.93	0.58	2.44	1.12	0.40	2.71	1.04	0.54	1.07	2.24	0.63
Avail Cap(c_a), veh/h	160	1313	587	186	1340	600	319	1454	453	319	1454	453
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.09	0.09	0.09	0.30	0.30	0.30	0.09	0.09	0.09	0.09	0.09	0.09
Uniform Delay (d), s/veh	57.0	36.0	28.2	56.5	35.5	25.1	54.0	41.5	34.4	54.0	41.5	35.6
Incr Delay (d2), s/veh	460.1	868.9	0.1	652.4	57.6	0.1	770.5	20.5	0.4	37.4	559.8	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	12.8	180.1	8.9	19.9	32.9	5.6	39.4	18.8	6.7	6.9	91.4	8.1
LnGrp Delay(d),s/veh	517.1	904.9	28.3	708.9	93.1	25.2	824.5	62.0	34.8	91.4	601.3	36.2
LnGrp LOS	F	F	C	F	F	C	F	F	C	F	F	D
Approach Vol, veh/h		4511			2194			2620			3887	
Approach Delay, s/veh		810.8			213.1			311.2			515.3	
Approach LOS		F			F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	16.0	41.0	11.0	52.0	16.0	41.0	10.0	53.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	12.0	37.0	7.0	48.0	12.0	37.0	6.0	49.0
Max Q Clear Time (g_c+I1), s	14.0	39.0	9.0	50.0	14.0	39.0	8.0	51.0
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	525.5
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	916	830	752	592	2246	402	518	2272	306	1093	1105	1117
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	996	902	817	643	2441	437	563	2470	333	1188	1201	1214
Adj No. of Lanes	2	3	1	2	3	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	426	1493	465	293	1297	404	266	1375	428	532	1768	551
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.13	0.32	0.32	0.09	0.28	0.28	0.08	0.29	0.29	0.17	0.38	0.38
Ln Grp Delay, s/veh	662.6	35.3	374.5	604.7	443.5	88.7	570.2	403.6	51.9	611.2	33.6	585.7
Ln Grp LOS	F	D	F	F	F	F	F	F	D	F	C	F
Approach Vol, veh/h		2715			3521			3366			3603	
Approach Delay, s/veh		367.5			428.9			396.7			410.0	
Approach LOS		F			F			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	6	5	8	7
Case No	2.0	3.0	2.0	3.0	3.0	2.0	3.0	2.0
Phs Duration (G+Y+Rc), s	24.0	39.0	15.0	42.0	49.0	14.0	37.0	20.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	20.0	35.0	11.0	38.0	45.0	10.0	33.0	16.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.2	4.2	4.1	4.1	4.2
Max Q Clear (g_c+I1), s	22.0	37.0	13.0	31.7	47.0	12.0	35.0	18.0
Green Ext Time (g_e), s	0.0	0.0	0.0	5.4	0.0	0.0	0.0	0.0
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prob of Max Out (p_x)	1.00	1.00	1.00	0.94	1.00	1.00	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt	1		3			5		7
Mvmt Sat Flow, veh/h	3191		3191			3191		3191

Through Movement Data								
Assigned Mvmt		2		4	6		8	
Mvmt Sat Flow, veh/h		4715		4715	4715		4715	

Right-Turn Movement Data								
Assigned Mvmt		12		14	16		18	
Mvmt Sat Flow, veh/h		1468		1468	1468		1468	

Left Lane Group Data								
Assigned Mvmt	1	0	3	0	0	5	0	7
Lane Assignment	(Prot)		(Prot)			(Prot)		(Prot)
Lanes in Grp	2	0	2	0	0	2	0	2

Grp Vol (v), veh/h	1188	0	643	0	0	563	0	996
Grp Sat Flow (s), veh/h/ln	1596	0	1596	0	0	1596	0	1596
Q Serve Time (g_s), s	20.0	0.0	11.0	0.0	0.0	10.0	0.0	16.0
Cycle Q Clear Time (g_c), s	20.0	0.0	11.0	0.0	0.0	10.0	0.0	16.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	532	0	293	0	0	266	0	426
V/C Ratio (X)	2.23	0.00	2.20	0.00	0.00	2.12	0.00	2.34
Avail Cap (c_a), veh/h	532	0	293	0	0	266	0	426
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	50.0	0.0	54.5	0.0	0.0	55.0	0.0	52.0
Incr Delay (d2), s/veh	561.2	0.0	550.2	0.0	0.0	515.2	0.0	610.6
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	611.2	0.0	604.7	0.0	0.0	570.2	0.0	662.6
1st-Term Q (Q1), veh/ln	8.8	0.0	4.8	0.0	0.0	4.4	0.0	7.0
2nd-Term Q (Q2), veh/ln	41.5	0.0	22.4	0.0	0.0	19.0	0.0	36.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	50.2	0.0	27.2	0.0	0.0	23.4	0.0	43.1
%ile Storage Ratio (RQ%)	0.44	0.00	0.55	0.00	0.00	0.13	0.00	0.60
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	164.0	0.0	87.6	0.0	0.0	74.3	0.0	142.6
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.6	0.0	0.5	0.0	0.0	0.5	0.0	0.6

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	6	0	8	0
Lane Assignment		T		T	T		T	
Lanes in Grp	0	3	0	3	3	0	3	0
Grp Vol (v), veh/h	0	2470	0	902	1201	0	2441	0
Grp Sat Flow (s), veh/h/ln	0	1572	0	1572	1572	0	1572	0
Q Serve Time (g_s), s	0.0	35.0	0.0	19.4	25.6	0.0	33.0	0.0
Cycle Q Clear Time (g_c), s	0.0	35.0	0.0	19.4	25.6	0.0	33.0	0.0
Lane Grp Cap (c), veh/h	0	1375	0	1493	1768	0	1297	0
V/C Ratio (X)	0.00	1.80	0.00	0.60	0.68	0.00	1.88	0.00
Avail Cap (c_a), veh/h	0	1375	0	1493	1768	0	1297	0
Upstream Filter (I)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	42.5	0.0	34.6	31.4	0.0	43.5	0.0
Incr Delay (d2), s/veh	0.0	361.1	0.0	0.7	2.1	0.0	400.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	403.6	0.0	35.3	33.6	0.0	443.5	0.0
1st-Term Q (Q1), veh/ln	0.0	15.2	0.0	8.4	11.1	0.0	14.3	0.0
2nd-Term Q (Q2), veh/ln	0.0	46.0	0.0	0.1	0.3	0.0	48.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	61.1	0.0	8.5	11.5	0.0	62.3	0.0
%ile Storage Ratio (RQ%)	0.00	0.35	0.00	0.12	0.10	0.00	1.27	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	273.7	0.0	0.0	0.0	0.0	286.1	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.4	0.0	0.0	0.0	0.0	0.5	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	16	0	18	0
Lane Assignment		R		R	R		R	
Lanes in Grp	0	1	0	1	1	0	1	0
Grp Vol (v), veh/h	0	333	0	817	1214	0	437	0
Grp Sat Flow (s), veh/h/ln	0	1468	0	1468	1468	0	1468	0
Q Serve Time (g_s), s	0.0	24.9	0.0	29.7	45.0	0.0	22.4	0.0
Cycle Q Clear Time (g_c), s	0.0	24.9	0.0	29.7	45.0	0.0	22.4	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	428	0	465	551	0	404	0
V/C Ratio (X)	0.00	0.78	0.00	1.76	2.20	0.00	1.08	0.00
Avail Cap (c_a), veh/h	0	428	0	465	551	0	404	0
Upstream Filter (I)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	38.9	0.0	25.0	37.5	0.0	20.0	0.0
Incr Delay (d2), s/veh	0.0	13.0	0.0	349.5	548.2	0.0	68.7	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	51.9	0.0	374.5	585.7	0.0	88.7	0.0
1st-Term Q (Q1), veh/ln	0.0	10.1	0.0	12.0	18.2	0.0	9.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	1.5	0.0	45.1	83.8	0.0	7.7	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	11.6	0.0	57.2	102.0	0.0	16.7	0.0
%ile Storage Ratio (RQ%)	0.00	0.07	0.00	0.79	0.89	0.00	0.34	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	88.0	165.9	0.0	8.3	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.4	0.6	0.0	0.3	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	402.9
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	916	830	752	592	2246	402	518	2272	306	1093	1105	1117
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	996	902	817	643	2441	437	563	2470	333	1188	1201	1214
Adj No. of Lanes	2	3	1	2	3	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	426	1493	465	293	1297	404	266	1375	428	532	1768	551
Arrive On Green	0.13	0.32	0.32	0.09	0.28	0.28	0.08	0.29	0.29	0.17	0.38	0.38
Sat Flow, veh/h	3191	4715	1468	3191	4715	1468	3191	4715	1468	3191	4715	1468
Grp Volume(v), veh/h	996	902	817	643	2441	437	563	2470	333	1188	1201	1214
Grp Sat Flow(s),veh/h/ln	1596	1572	1468	1596	1572	1468	1596	1572	1468	1596	1572	1468
Q Serve(g_s), s	16.0	19.4	29.7	11.0	33.0	22.4	10.0	35.0	24.9	20.0	25.6	45.0
Cycle Q Clear(g_c), s	16.0	19.4	29.7	11.0	33.0	22.4	10.0	35.0	24.9	20.0	25.6	45.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	426	1493	465	293	1297	404	266	1375	428	532	1768	551
V/C Ratio(X)	2.34	0.60	1.76	2.20	1.88	1.08	2.12	1.80	0.78	2.23	0.68	2.20
Avail Cap(c_a), veh/h	426	1493	465	293	1297	404	266	1375	428	532	1768	551
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	52.0	34.6	25.0	54.5	43.5	20.0	55.0	42.5	38.9	50.0	31.4	37.5
Incr Delay (d2), s/veh	610.6	0.7	349.5	550.2	400.0	68.7	515.2	361.1	13.0	561.2	2.1	548.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	43.1	8.5	57.2	27.2	62.3	16.7	23.4	61.1	11.6	50.2	11.5	102.0
LnGrp Delay(d),s/veh	662.6	35.3	374.5	604.7	443.5	88.7	570.2	403.6	51.9	611.2	33.6	585.7
LnGrp LOS	F	D	F	F	F	F	F	F	D	F	C	F
Approach Vol, veh/h		2715			3521			3366			3603	
Approach Delay, s/veh		367.5			428.9			396.7			410.0	
Approach LOS		F			F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	24.0	39.0	15.0	42.0	14.0	49.0	20.0	37.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	20.0	35.0	11.0	38.0	10.0	45.0	16.0	33.0
Max Q Clear Time (g_c+I1), s	22.0	37.0	13.0	31.7	12.0	47.0	18.0	35.0
Green Ext Time (p_c), s	0.0	0.0	0.0	5.4	0.0	0.0	0.0	0.0

Intersection Summary		
HCM 2010 Ctrl Delay	402.9	
HCM 2010 LOS	F	

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	178	1409	994	368	1478	86	813	123	202	38	480	178
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	193	1532	1080	400	1607	93	619	505	220	41	522	193
Adj No. of Lanes	1	2	1	1	3	0	1	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	128	985	440	219	1622	94	329	495	216	0	227	84
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00
Prop Arrive On Green	0.08	0.30	0.30	0.13	0.36	0.36	0.07	0.14	0.14	0.00	0.19	0.19
Ln Grp Delay, s/veh	274.0	282.2	685.5	427.0	53.5	63.4	443.1	0.0	64.8	0.0	0.0	629.7
Ln Grp LOS	F	F	F	F	D	E	F		F			F
Approach Vol, veh/h		2805			2100			1344			715	
Approach Delay, s/veh		436.9			127.4			239.0			629.7	
Approach LOS		F			F			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	6	5	8	7
Case No	0.0	4.0	3.0	2.0	4.0	2.0	4.0	2.0
Phs Duration (G+Y+Rc), s	0.0	43.0	31.0	16.0	21.0	22.0	36.0	11.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	4.0	31.0	27.0	12.0	17.0	18.0	32.0	7.0
Max Allow Headway (MAH), s	0.0	4.1	4.2	4.1	4.1	4.1	4.0	4.1
Max Q Clear (g_c+I1), s	0.0	41.0	29.0	14.0	19.0	20.0	33.6	9.0
Green Ext Time (g_e), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prob of Phs Call (p_c)	0.00	1.00	1.00	1.00	1.00	1.00	1.00	0.99
Prob of Max Out (p_x)	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt	1			3		5		7
Mvmt Sat Flow, veh/h	0			1645		1645		1645

Through Movement Data								
Assigned Mvmt		2	4		6		8	
Mvmt Sat Flow, veh/h		1142	3282		1204		4561	

Right-Turn Movement Data								
Assigned Mvmt		12	14		16		18	
Mvmt Sat Flow, veh/h		497	1468		445		264	

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	0	5	0	7
Lane Assignment				(Prot)		(Prot)		(Prot)
Lanes in Grp	0	0	0	1	0	1	0	1

Grp Vol (v), veh/h	0	0	0	400	0	619	0	193
Grp Sat Flow (s), veh/h/ln	0	0	0	1645	0	1645	0	1645
Q Serve Time (g_s), s	0.0	0.0	0.0	12.0	0.0	18.0	0.0	7.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	12.0	0.0	18.0	0.0	7.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	0	0	219	0	329	0	128
V/C Ratio (X)	0.00	0.00	0.00	1.82	0.00	1.88	0.00	1.51
Avail Cap (c_a), veh/h	0	0	0	219	0	329	0	128
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.38	0.00	0.09
Uniform Delay (d1), s/veh	0.0	0.0	0.0	39.0	0.0	42.0	0.0	41.5
Incr Delay (d2), s/veh	0.0	0.0	0.0	388.0	0.0	401.1	0.0	232.5
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	427.0	0.0	443.1	0.0	274.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	5.4	0.0	8.2	0.0	3.2
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	23.6	0.0	36.7	0.0	8.3
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	29.1	0.0	44.8	0.0	11.4
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	2.37	0.00	3.84	0.00	2.08
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	45.2	0.0	72.5	0.0	16.3
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.5	0.0	0.5	0.0	0.4

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	6	0	8	0
Lane Assignment			T				T	
Lanes in Grp	0	0	2	0	0	0	2	0
Grp Vol (v), veh/h	0	0	1532	0	0	0	1107	0
Grp Sat Flow (s), veh/h/ln	0	0	1641	0	0	0	1572	0
Q Serve Time (g_s), s	0.0	0.0	27.0	0.0	0.0	0.0	31.5	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	27.0	0.0	0.0	0.0	31.5	0.0
Lane Grp Cap (c), veh/h	0	0	985	0	0	0	1118	0
V/C Ratio (X)	0.00	0.00	1.56	0.00	0.00	0.00	0.99	0.00
Avail Cap (c_a), veh/h	0	0	985	0	0	0	1118	0
Upstream Filter (I)	0.00	0.00	0.09	0.00	0.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	31.5	0.0	0.0	0.0	28.9	0.0
Incr Delay (d2), s/veh	0.0	0.0	250.7	0.0	0.0	0.0	24.6	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	282.2	0.0	0.0	0.0	53.5	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	12.2	0.0	0.0	0.0	13.7	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	34.3	0.0	0.0	0.0	3.8	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	46.4	0.0	0.0	0.0	17.5	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.09	0.00	0.00	0.00	0.87	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	136.9	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data

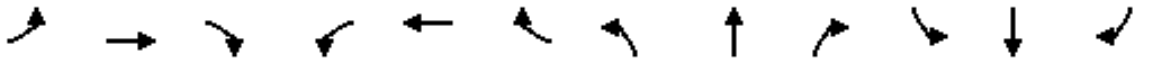
Assigned Mvmt	0	12	14	0	16	0	18	0
Lane Assignment		T+R	R		T+R		T+R	
Lanes in Grp	0	1	1	0	1	0	1	0
Grp Vol (v), veh/h	0	725	1080	0	715	0	593	0
Grp Sat Flow (s), veh/h/ln	0	1639	1468	0	1649	0	1681	0
Q Serve Time (g_s), s	0.0	39.0	27.0	0.0	17.0	0.0	31.6	0.0
Cycle Q Clear Time (g_c), s	0.0	39.0	27.0	0.0	17.0	0.0	31.6	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.30	1.00	0.00	0.27	0.00	0.16	0.00
Lane Grp Cap (c), veh/h	0	710	440	0	311	0	598	0
V/C Ratio (X)	0.00	1.02	2.45	0.00	2.30	0.00	0.99	0.00
Avail Cap (c_a), veh/h	0	710	440	0	311	0	598	0
Upstream Filter (I)	0.00	0.38	0.09	0.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	38.6	31.5	0.0	36.5	0.0	28.9	0.0
Incr Delay (d2), s/veh	0.0	26.2	654.0	0.0	593.2	0.0	34.6	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	64.8	685.5	0.0	629.7	0.0	63.4	0.0
1st-Term Q (Q1), veh/ln	0.0	17.7	10.9	0.0	7.7	0.0	14.6	0.0
2nd-Term Q (Q2), veh/ln	0.0	5.2	80.0	0.0	51.3	0.0	5.7	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	22.9	90.9	0.0	59.0	0.0	20.4	0.0
%ile Storage Ratio (RQ%)	0.00	1.43	19.33	0.00	1.03	0.00	1.01	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	3.6	159.9	0.0	100.9	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.3	0.6	0.0	0.6	0.0	0.0	0.0

Intersection Summary

HCM 2010 Ctrl Delay	325.2
HCM 2010 LOS	F

Notes

User approved volume balancing among the lanes for turning movement.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	178	1409	994	368	1478	86	813	123	202	38	480	178
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	193	1532	1080	400	1607	93	619	505	220	41	522	193
Adj No. of Lanes	1	2	1	1	3	0	1	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	128	985	440	219	1622	94	329	495	216	0	227	84
Arrive On Green	0.08	0.30	0.30	0.13	0.36	0.36	0.07	0.14	0.14	0.00	0.19	0.19
Sat Flow, veh/h	1645	3282	1468	1645	4561	264	1645	1142	497	0	1204	445
Grp Volume(v), veh/h	193	1532	1080	400	1107	593	619	0	725	0	0	715
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1572	1681	1645	0	1639	0	0	1649
Q Serve(g_s), s	7.0	27.0	27.0	12.0	31.5	31.6	18.0	0.0	39.0	0.0	0.0	17.0
Cycle Q Clear(g_c), s	7.0	27.0	27.0	12.0	31.5	31.6	18.0	0.0	39.0	0.0	0.0	17.0
Prop In Lane	1.00		1.00	1.00		0.16	1.00		0.30	0.00		0.27
Lane Grp Cap(c), veh/h	128	985	440	219	1118	598	329	0	710	0	0	311
V/C Ratio(X)	1.51	1.56	2.45	1.82	0.99	0.99	1.88	0.00	1.02	0.00	0.00	2.30
Avail Cap(c_a), veh/h	128	985	440	219	1118	598	329	0	710	0	0	311
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00
Upstream Filter(I)	0.09	0.09	0.09	1.00	1.00	1.00	0.38	0.00	0.38	0.00	0.00	1.00
Uniform Delay (d), s/veh	41.5	31.5	31.5	39.0	28.9	28.9	42.0	0.0	38.6	0.0	0.0	36.5
Incr Delay (d2), s/veh	232.5	250.7	654.0	388.0	24.6	34.6	401.1	0.0	26.2	0.0	0.0	593.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	11.4	46.4	90.9	29.1	17.5	20.4	44.8	0.0	22.9	0.0	0.0	59.0
LnGrp Delay(d),s/veh	274.0	282.2	685.5	427.0	53.5	63.4	443.1	0.0	64.8	0.0	0.0	629.7
LnGrp LOS	F	F	F	F	D	E	F		F			F
Approach Vol, veh/h		2805			2100			1344			715	
Approach Delay, s/veh		436.9			127.4			239.0			629.7	
Approach LOS		F			F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	0.0	43.0	16.0	31.0	22.0	21.0	11.0	36.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax),4s	0	31.0	12.0	27.0	18.0	17.0	7.0	32.0
Max Q Clear Time (g_c+I1),0s	0	41.0	14.0	29.0	20.0	19.0	9.0	33.6
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary		
HCM 2010 Ctrl Delay	325.2	
HCM 2010 LOS	F	

Notes

User approved volume balancing among the lanes for turning movement.



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Volume (veh/h)	641	625	328	390	1310	331
Number	3	18	2	12	1	6
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	697	679	357	424	1424	360
Adj No. of Lanes	2	1	1	1	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Opposing Right Turn Influence	Yes				Yes	
Cap, veh/h	674	310	365	310	1418	1209
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.67	1.67
Prop Arrive On Green	0.21	0.21	0.21	0.21	0.74	1.00
Ln Grp Delay, s/veh	79.4	581.8	77.5	220.4	19.7	0.1
Ln Grp LOS	F	F	E	F	F	A
Approach Vol, veh/h	1376		781			1784
Approach Delay, s/veh	327.3		155.1			15.8
Approach LOS	F		F			B

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	8			6		
Case No	2.0	7.0	9.0			4.0		
Phs Duration (G+Y+Rc), s	44.0	23.0	23.0			67.0		
Change Period (Y+Rc), s	4.0	4.0	4.0			4.0		
Max Green (Gmax), s	40.0	19.0	19.0			63.0		
Max Allow Headway (MAH), s	4.1	4.1	4.2			4.1		
Max Q Clear (g_c+I1), s	42.0	21.0	21.0			2.0		
Green Ext Time (g_e), s	0.0	0.0	0.0			5.0		
Prob of Phs Call (p_c)	1.00	1.00	1.00			1.00		
Prob of Max Out (p_x)	1.00	1.00	1.00			0.00		

Left-Turn Movement Data								
Assigned Mvmt	1	5	3					
Mvmt Sat Flow, veh/h	3191	0	3191					

Through Movement Data								
Assigned Mvmt		2	8			6		
Mvmt Sat Flow, veh/h		1727	0			1727		

Right-Turn Movement Data								
Assigned Mvmt		12	18			16		
Mvmt Sat Flow, veh/h		1468	1468			0		

Left Lane Group Data								
Assigned Mvmt	1	5	3	0	0	0	0	0
Lane Assignment	(Prot)							
Lanes in Grp	2	0	2	0	0	0	0	0

Grp Vol (v), veh/h	1424	0	697	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	1596	0	1596	0	0	0	0	0
Q Serve Time (g_s), s	40.0	0.0	19.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	40.0	0.0	19.0	0.0	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	1596	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	19.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	1418	0	674	0	0	0	0	0
V/C Ratio (X)	1.00	0.00	1.03	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	1418	0	674	0	0	0	0	0
Upstream Filter (I)	0.09	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	11.6	0.0	35.5	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	8.1	0.0	43.9	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	19.7	0.0	79.4	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	16.7	0.0	8.3	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	1.6	0.0	4.1	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00
%ile Back of Q (50%), veh/ln	18.3	0.0	12.4	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	1.51	0.00	1.60	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	1.4	0.0	5.8	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	8	0	0	6	0	0
Lane Assignment		T				T		
Lanes in Grp	0	1	0	0	0	1	0	0
Grp Vol (v), veh/h	0	357	0	0	0	360	0	0
Grp Sat Flow (s), veh/h/ln	0	1727	0	0	0	1727	0	0
Q Serve Time (g_s), s	0.0	18.5	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	18.5	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	365	0	0	0	1209	0	0
V/C Ratio (X)	0.00	0.98	0.00	0.00	0.00	0.30	0.00	0.00
Avail Cap (c_a), veh/h	0	365	0	0	0	1209	0	0
Upstream Filter (I)	0.00	1.00	0.00	0.00	0.00	0.09	0.00	0.00
Uniform Delay (d1), s/veh	0.0	35.3	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	42.2	0.0	0.0	0.0	0.1	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	77.5	0.0	0.0	0.0	0.1	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	8.8	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	13.1	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.78	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	18	0	0	16	0	0
Lane Assignment		R	R					
Lanes in Grp	0	1	1	0	0	0	0	0
Grp Vol (v), veh/h	0	424	679	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	1468	1468	0	0	0	0	0
Q Serve Time (g_s), s	0.0	19.0	19.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	19.0	19.0	0.0	0.0	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	310	310	0	0	0	0	0
V/C Ratio (X)	0.00	1.37	2.19	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	310	310	0	0	0	0	0
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	35.5	35.5	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	184.9	546.3	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	220.4	581.8	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	7.7	7.7	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	15.9	47.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	23.6	54.7	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	7.96	0.03	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	28.5	92.3	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.3	0.5	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	152.1
HCM 2010 LOS	F



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Volume (veh/h)	641	625	328	390	1310	331
Number	3	18	2	12	1	6
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	697	679	357	424	1424	360
Adj No. of Lanes	2	1	1	1	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Cap, veh/h	674	310	365	310	1418	1209
Arrive On Green	0.21	0.21	0.21	0.21	0.74	1.00
Sat Flow, veh/h	3191	1468	1727	1468	3191	1727
Grp Volume(v), veh/h	697	679	357	424	1424	360
Grp Sat Flow(s),veh/h/ln	1596	1468	1727	1468	1596	1727
Q Serve(g_s), s	19.0	19.0	18.5	19.0	40.0	0.0
Cycle Q Clear(g_c), s	19.0	19.0	18.5	19.0	40.0	0.0
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	674	310	365	310	1418	1209
V/C Ratio(X)	1.03	2.19	0.98	1.37	1.00	0.30
Avail Cap(c_a), veh/h	674	310	365	310	1418	1209
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.67	1.67
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.09	0.09
Uniform Delay (d), s/veh	35.5	35.5	35.3	35.5	11.6	0.0
Incr Delay (d2), s/veh	43.9	546.3	42.2	184.9	8.1	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	12.4	54.7	13.1	23.6	18.3	0.0
LnGrp Delay(d),s/veh	79.4	581.8	77.5	220.4	19.7	0.1
LnGrp LOS	F	F	E	F	F	A
Approach Vol, veh/h	1376		781			1784
Approach Delay, s/veh	327.3		155.1			15.8
Approach LOS	F		F			B

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2				6		8
Phs Duration (G+Y+Rc), s	44.0	23.0				67.0		23.0
Change Period (Y+Rc), s	4.0	4.0				4.0		4.0
Max Green Setting (Gmax), s	40.0	19.0				63.0		19.0
Max Q Clear Time (g_c+I1), s	42.0	21.0				2.0		21.0
Green Ext Time (p_c), s	0.0	0.0				5.0		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	152.1
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	124	191	110	44	275	75	77	446	29	75	283	138
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	135	208	120	48	299	82	84	485	32	82	308	150
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	164	234	135	198	325	89	105	521	34	245	450	219
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.10	0.23	0.23	0.12	0.25	0.25	0.06	0.33	0.33	0.15	0.41	0.41
Ln Grp Delay, s/veh	63.3	0.0	45.6	36.0	0.0	41.8	66.4	0.0	53.8	35.1	0.0	27.3
Ln Grp LOS	E		D	D		D	E		D	D		C
Approach Vol, veh/h		463			429			601			540	
Approach Delay, s/veh		50.7			41.1			55.5			28.5	
Approach LOS		D			D			E			C	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	5	6	7	8
Case No	4.0	2.0	4.0	2.0	2.0	4.0	2.0	4.0
Phs Duration (G+Y+Rc), s	33.3	17.4	24.5	14.9	9.7	40.9	13.0	26.4
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	33.0	7.0	30.0	4.0	7.0	33.0	10.0	24.0
Max Allow Headway (MAH), s	4.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	28.4	6.0	19.6	4.4	6.5	22.7	9.2	22.1
Green Ext Time (g_e), s	0.9	0.3	0.9	0.0	0.0	1.6	0.0	0.3
Prob of Phs Call (p_c)	1.00	0.87	1.00	0.70	0.88	1.00	0.97	1.00
Prob of Max Out (p_x)	0.79	1.00	0.04	1.00	1.00	0.11	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt		1		3	5		7	
Mvmt Sat Flow, veh/h		1645		1645	1645		1645	

Through Movement Data								
Assigned Mvmt	2		4			6		8
Mvmt Sat Flow, veh/h	1603		1029			1098		1306

Right-Turn Movement Data								
Assigned Mvmt	12		14			16		18
Mvmt Sat Flow, veh/h	106		594			535		358

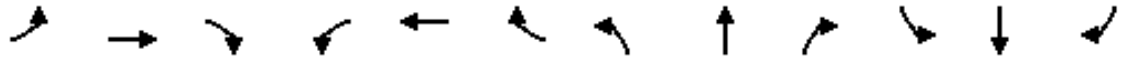
Left Lane Group Data								
Assigned Mvmt	0	1	0	3	5	0	7	0
Lane Assignment		(Prot)		(Prot)	(Prot)		(Prot)	
Lanes in Grp	0	1	0	1	1	0	1	0

Grp Vol (v), veh/h	0	82	0	48	84	0	135	0
Grp Sat Flow (s), veh/h/ln	0	1645	0	1645	1645	0	1645	0
Q Serve Time (g_s), s	0.0	4.0	0.0	2.4	4.5	0.0	7.2	0.0
Cycle Q Clear Time (g_c), s	0.0	4.0	0.0	2.4	4.5	0.0	7.2	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	245	0	198	105	0	164	0
V/C Ratio (X)	0.00	0.33	0.00	0.24	0.80	0.00	0.82	0.00
Avail Cap (c_a), veh/h	0	245	0	198	128	0	183	0
Upstream Filter (I)	0.00	1.00	0.00	0.28	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	34.3	0.0	35.8	41.6	0.0	39.8	0.0
Incr Delay (d2), s/veh	0.0	0.8	0.0	0.2	24.9	0.0	23.5	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	35.1	0.0	36.0	66.4	0.0	63.3	0.0
1st-Term Q (Q1), veh/ln	0.0	1.8	0.0	1.1	2.1	0.0	3.3	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.0	0.7	0.0	1.1	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	1.9	0.0	1.1	2.8	0.0	4.4	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.01	0.01	0.00	0.04	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	0	6	0	8
Lane Assignment								
Lanes in Grp	0	0	0	0	0	0	0	0
Grp Vol (v), veh/h	0	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	0	16	0	18
Lane Assignment	T+R		T+R			T+R		T+R
Lanes in Grp	1	0	1	0	0	1	0	1
Grp Vol (v), veh/h	517	0	328	0	0	458	0	381
Grp Sat Flow (s), veh/h/ln	1709	0	1623	0	0	1633	0	1664
Q Serve Time (g_s), s	26.4	0.0	17.6	0.0	0.0	20.7	0.0	20.1
Cycle Q Clear Time (g_c), s	26.4	0.0	17.6	0.0	0.0	20.7	0.0	20.1
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.06	0.00	0.37	0.00	0.00	0.33	0.00	0.22
Lane Grp Cap (c), veh/h	556	0	369	0	0	670	0	414
V/C Ratio (X)	0.93	0.00	0.89	0.00	0.00	0.68	0.00	0.92
Avail Cap (c_a), veh/h	626	0	541	0	0	670	0	444
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	0.28
Uniform Delay (d1), s/veh	29.4	0.0	33.6	0.0	0.0	21.8	0.0	32.9
Incr Delay (d2), s/veh	24.4	0.0	11.9	0.0	0.0	5.6	0.0	8.8
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	53.8	0.0	45.6	0.0	0.0	27.3	0.0	41.8
1st-Term Q (Q1), veh/ln	12.4	0.0	7.8	0.0	0.0	9.3	0.0	9.2
2nd-Term Q (Q2), veh/ln	3.8	0.0	1.2	0.0	0.0	1.0	0.0	1.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	16.1	0.0	9.1	0.0	0.0	10.3	0.0	10.2
%ile Storage Ratio (RQ%)	0.04	0.00	0.09	0.00	0.00	0.03	0.00	0.05
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	44.2
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	124	191	110	44	275	75	77	446	29	75	283	138
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	135	208	120	48	299	82	84	485	32	82	308	150
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	164	234	135	198	325	89	105	521	34	245	450	219
Arrive On Green	0.10	0.23	0.23	0.12	0.25	0.25	0.06	0.33	0.33	0.15	0.41	0.41
Sat Flow, veh/h	1645	1029	594	1645	1306	358	1645	1603	106	1645	1098	535
Grp Volume(v), veh/h	135	0	328	48	0	381	84	0	517	82	0	458
Grp Sat Flow(s),veh/h/ln	1645	0	1623	1645	0	1664	1645	0	1709	1645	0	1633
Q Serve(g_s), s	7.2	0.0	17.6	2.4	0.0	20.1	4.5	0.0	26.4	4.0	0.0	20.7
Cycle Q Clear(g_c), s	7.2	0.0	17.6	2.4	0.0	20.1	4.5	0.0	26.4	4.0	0.0	20.7
Prop In Lane	1.00		0.37	1.00		0.22	1.00		0.06	1.00		0.33
Lane Grp Cap(c), veh/h	164	0	369	198	0	414	105	0	556	245	0	670
V/C Ratio(X)	0.82	0.00	0.89	0.24	0.00	0.92	0.80	0.00	0.93	0.33	0.00	0.68
Avail Cap(c_a), veh/h	183	0	541	198	0	444	128	0	626	245	0	670
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	0.28	0.00	0.28	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	39.8	0.0	33.6	35.8	0.0	32.9	41.6	0.0	29.4	34.3	0.0	21.8
Incr Delay (d2), s/veh	23.5	0.0	11.9	0.2	0.0	8.8	24.9	0.0	24.4	0.8	0.0	5.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.4	0.0	9.1	1.1	0.0	10.2	2.8	0.0	16.1	1.9	0.0	10.3
LnGrp Delay(d),s/veh	63.3	0.0	45.6	36.0	0.0	41.8	66.4	0.0	53.8	35.1	0.0	27.3
LnGrp LOS	E		D	D		D	E		D	D		C
Approach Vol, veh/h		463			429			601			540	
Approach Delay, s/veh		50.7			41.1			55.5			28.5	
Approach LOS		D			D			E			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	17.4	33.3	14.9	24.5	9.7	40.9	13.0	26.4
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	7.0	33.0	4.0	30.0	7.0	33.0	10.0	24.0
Max Q Clear Time (g_c+I1), s	6.0	28.4	4.4	19.6	6.5	22.7	9.2	22.1
Green Ext Time (p_c), s	0.3	0.9	0.0	0.9	0.0	1.6	0.0	0.3

Intersection Summary	
HCM 2010 Ctrl Delay	44.2
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	110	784	18	19	551	519	5	236	38	459	183	62
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1900	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	120	852	20	21	599	564	5	257	41	499	199	67
Adj No. of Lanes	1	1	0	1	1	1	0	1	0	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	128	679	16	30	595	506	0	275	44	347	768	653
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.08	0.40	0.40	0.02	0.34	0.34	0.00	0.19	0.19	0.21	0.44	0.44
Ln Grp Delay, s/veh	89.5	0.0	149.5	69.8	68.1	84.2	0.0	0.0	42.1	233.6	15.8	7.2
Ln Grp LOS	F		F	E	F	F			D	F	B	A
Approach Vol, veh/h		992			1184			298			765	
Approach Delay, s/veh		142.2			75.8			42.1			157.1	
Approach LOS		F			E			D			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	8	7
Case No	2.0	4.0	2.0	4.0	0.0	3.0	3.0	2.0
Phs Duration (G+Y+Rc), s	23.0	21.0	5.6	40.4	0.0	44.0	35.0	11.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	19.0	17.0	4.0	34.0	4.0	32.0	31.0	7.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.0	0.0	4.1	4.2	4.0
Max Q Clear (g_c+I1), s	21.0	17.7	3.1	38.4	0.0	8.5	33.0	8.5
Green Ext Time (g_e), s	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0
Prob of Phs Call (p_c)	1.00	1.00	0.41	1.00	0.00	1.00	1.00	0.95
Prob of Max Out (p_x)	1.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt	1		3		5			7
Mvmt Sat Flow, veh/h	1645		1645		0			1645

Through Movement Data								
Assigned Mvmt		2		4		6	8	
Mvmt Sat Flow, veh/h		1454		1681		1727	1727	

Right-Turn Movement Data								
Assigned Mvmt		12		14		16	18	
Mvmt Sat Flow, veh/h		232		39		1468	1468	

Left Lane Group Data								
Assigned Mvmt	1	0	3	0	5	0	0	7
Lane Assignment	(Prot)		(Prot)					(Prot)
Lanes in Grp	1	0	1	0	0	0	0	1

Grp Vol (v), veh/h	499	0	21	0	0	0	0	120
Grp Sat Flow (s), veh/h/ln	1645	0	1645	0	0	0	0	1645
Q Serve Time (g_s), s	19.0	0.0	1.1	0.0	0.0	0.0	0.0	6.5
Cycle Q Clear Time (g_c), s	19.0	0.0	1.1	0.0	0.0	0.0	0.0	6.5
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	347	0	30	0	0	0	0	128
V/C Ratio (X)	1.44	0.00	0.70	0.00	0.00	0.00	0.00	0.94
Avail Cap (c_a), veh/h	347	0	73	0	0	0	0	128
Upstream Filter (I)	0.09	0.00	1.00	0.00	0.00	0.00	0.00	0.69
Uniform Delay (d1), s/veh	35.5	0.0	43.9	0.0	0.0	0.0	0.0	41.3
Incr Delay (d2), s/veh	198.1	0.0	25.9	0.0	0.0	0.0	0.0	48.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	233.6	0.0	69.8	0.0	0.0	0.0	0.0	89.5
1st-Term Q (Q1), veh/ln	8.6	0.0	0.5	0.0	0.0	0.0	0.0	3.0
2nd-Term Q (Q2), veh/ln	19.1	0.0	0.2	0.0	0.0	0.0	0.0	1.7
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	27.7	0.0	0.7	0.0	0.0	0.0	0.0	4.7
%ile Storage Ratio (RQ%)	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	37.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	8	0
Lane Assignment						T	T	
Lanes in Grp	0	0	0	0	0	1	1	0
Grp Vol (v), veh/h	0	0	0	0	0	199	599	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	1727	1727	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	6.5	31.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	6.5	31.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	768	595	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.26	1.01	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	768	595	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.09	1.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	15.7	29.5	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.1	38.6	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	15.8	68.1	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	3.1	14.7	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	6.4	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	3.1	21.1	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	18	0
Lane Assignment		T+R		T+R		R	R	
Lanes in Grp	0	1	0	1	0	1	1	0
Grp Vol (v), veh/h	0	298	0	872	0	67	564	0
Grp Sat Flow (s), veh/h/ln	0	1686	0	1720	0	1468	1468	0
Q Serve Time (g_s), s	0.0	15.7	0.0	36.4	0.0	1.7	16.8	0.0
Cycle Q Clear Time (g_c), s	0.0	15.7	0.0	36.4	0.0	1.7	16.8	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.14	0.00	0.02	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	319	0	695	0	653	506	0
V/C Ratio (X)	0.00	0.94	0.00	1.25	0.00	0.10	1.12	0.00
Avail Cap (c_a), veh/h	0	319	0	695	0	653	506	0
Upstream Filter (I)	0.00	0.09	0.00	0.69	0.00	0.09	1.00	0.00
Uniform Delay (d1), s/veh	0.0	36.0	0.0	26.8	0.0	7.1	8.7	0.0
Incr Delay (d2), s/veh	0.0	6.1	0.0	122.7	0.0	0.0	75.5	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	42.1	0.0	149.5	0.0	7.2	84.2	0.0
1st-Term Q (Q1), veh/ln	0.0	7.3	0.0	17.2	0.0	0.7	6.7	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.5	0.0	23.7	0.0	0.0	10.6	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	7.8	0.0	40.9	0.0	0.7	17.4	0.0
%ile Storage Ratio (RQ%)	0.00	0.02	0.00	0.22	0.00	0.00	0.02	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	44.2	0.0	0.0	14.6	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.0	0.0	0.3	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	112.3
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	110	784	18	19	551	519	5	236	38	459	183	62
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1900	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	120	852	20	21	599	564	5	257	41	499	199	67
Adj No. of Lanes	1	1	0	1	1	1	0	1	0	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	128	679	16	30	595	506	0	275	44	347	768	653
Arrive On Green	0.08	0.40	0.40	0.02	0.34	0.34	0.00	0.19	0.19	0.21	0.44	0.44
Sat Flow, veh/h	1645	1681	39	1645	1727	1468	0	1454	232	1645	1727	1468
Grp Volume(v), veh/h	120	0	872	21	599	564	0	0	298	499	199	67
Grp Sat Flow(s),veh/h/ln	1645	0	1720	1645	1727	1468	0	0	1686	1645	1727	1468
Q Serve(g_s), s	6.5	0.0	36.4	1.1	31.0	16.8	0.0	0.0	15.7	19.0	6.5	1.7
Cycle Q Clear(g_c), s	6.5	0.0	36.4	1.1	31.0	16.8	0.0	0.0	15.7	19.0	6.5	1.7
Prop In Lane	1.00		0.02	1.00		1.00	0.00		0.14	1.00		1.00
Lane Grp Cap(c), veh/h	128	0	695	30	595	506	0	0	319	347	768	653
V/C Ratio(X)	0.94	0.00	1.25	0.70	1.01	1.12	0.00	0.00	0.94	1.44	0.26	0.10
Avail Cap(c_a), veh/h	128	0	695	73	595	506	0	0	319	347	768	653
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.69	0.00	0.69	1.00	1.00	1.00	0.00	0.00	0.09	0.09	0.09	0.09
Uniform Delay (d), s/veh	41.3	0.0	26.8	43.9	29.5	8.7	0.0	0.0	36.0	35.5	15.7	7.1
Incr Delay (d2), s/veh	48.3	0.0	122.7	25.9	38.6	75.5	0.0	0.0	6.1	198.1	0.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.7	0.0	40.9	0.7	21.1	17.4	0.0	0.0	7.8	27.7	3.1	0.7
LnGrp Delay(d),s/veh	89.5	0.0	149.5	69.8	68.1	84.2	0.0	0.0	42.1	233.6	15.8	7.2
LnGrp LOS	F		F	E	F	F			D	F	B	A
Approach Vol, veh/h		992			1184			298			765	
Approach Delay, s/veh		142.2			75.8			42.1			157.1	
Approach LOS		F			E			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	23.0	21.0	5.6	40.4	0.0	44.0	11.0	35.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	19.0	17.0	4.0	34.0	4.0	32.0	7.0	31.0
Max Q Clear Time (g_c+I1), s	12.1	17.7	3.1	38.4	0.0	8.5	8.5	33.0
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	112.3
HCM 2010 LOS	F

Intersection	
Int Delay, s/veh	93.9

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	60	1527	715	148	98	19
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	65	1660	777	161	107	21

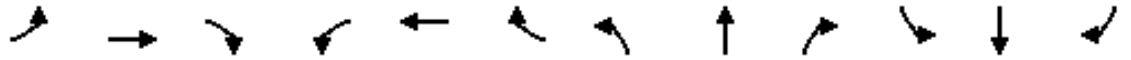
Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	938	0	-	0	2648	858
Stage 1	-	-	-	-	858	-
Stage 2	-	-	-	-	1790	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	699	-	-	-	~ 24	345
Stage 1	-	-	-	-	402	-
Stage 2	-	-	-	-	140	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	699	-	-	-	~ 22	345
Mov Cap-2 Maneuver	-	-	-	-	~ 22	-
Stage 1	-	-	-	-	402	-
Stage 2	-	-	-	-	127	-

Approach	EB	WB	SB
HCM Control Delay, s	0.4	0	$ 2054.1
HCM LOS			F

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	699	-	-	-	26
HCM Lane V/C Ratio	0.093	-	-	-	4.891
HCM Control Delay (s)	10.7	-	-	-	$ 2054.1
HCM Lane LOS	B	-	-	-	F
HCM 95th %tile Q(veh)	0.3	-	-	-	15.7

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	172	1107	26	14	445	86	20	67	9	88	80	80
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1727	1900	1727	1727	1727	1900	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	187	1203	28	15	484	93	22	73	10	96	87	87
Adj No. of Lanes	0	1	0	1	1	1	0	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	0	747	17	23	868	738	0	107	15	0	105	105
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.00	0.44	0.44	0.01	0.50	0.50	0.23	0.07	0.07	0.29	0.13	0.13
Ln Grp Delay, s/veh	0.0	0.0	305.6	69.9	16.2	0.7	0.0	0.0	67.6	0.0	0.0	66.8
Ln Grp LOS			F	E	B	A			E			E
Approach Vol, veh/h		1231			592			83			174	
Approach Delay, s/veh		305.6			15.1			67.6			66.8	
Approach LOS		F			B			E			E	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	6	5	7	8
Case No	4.0	0.0	2.0	4.0	4.0	0.0	0.0	3.0
Phs Duration (G+Y+Rc), s	10.5	30.3	5.3	44.0	15.9	24.8	0.0	49.3
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	20.0	7.0	7.0	40.0	20.0	7.0	7.0	40.0
Max Allow Headway (MAH), s	4.1	0.0	4.1	4.0	4.2	0.0	0.0	4.0
Max Q Clear (g_c+I1), s	6.3	0.0	2.8	42.0	11.6	0.0	0.0	19.4
Green Ext Time (g_e), s	0.2	0.0	0.0	0.0	0.3	0.0	0.0	10.0
Prob of Phs Call (p_c)	1.00	0.00	0.31	1.00	1.00	0.00	0.00	1.00
Prob of Max Out (p_x)	0.00	0.00	0.88	1.00	0.05	0.00	0.00	0.39

Left-Turn Movement Data								
Assigned Mvmt		1	3			5	7	
Mvmt Sat Flow, veh/h		0	1645			0	0	

Through Movement Data								
Assigned Mvmt	2			4	6			8
Mvmt Sat Flow, veh/h	1488			1681	794			1727

Right-Turn Movement Data								
Assigned Mvmt	12			14	16			18
Mvmt Sat Flow, veh/h	204			39	794			1468

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	0	5	7	0
Lane Assignment			(Prot)					
Lanes in Grp	0	0	1	0	0	0	0	0

Grp Vol (v), veh/h	0	0	15	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	1645	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	0	23	0	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.66	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	128	0	0	0	0	0
Upstream Filter (I)	0.00	0.00	0.93	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	44.2	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	25.8	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	69.9	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	6	0	0	8
Lane Assignment								T
Lanes in Grp	0	0	0	0	0	0	0	1
Grp Vol (v), veh/h	0	0	0	0	0	0	0	484
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	1727
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.4
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.4
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	868
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	868
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.5
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.2
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	0	14	16	0	0	18
Lane Assignment	T+R			T+R	T+R			R
Lanes in Grp	1	0	0	1	1	0	0	1
Grp Vol (v), veh/h	83	0	0	1231	174	0	0	93
Grp Sat Flow (s), veh/h/ln	1691	0	0	1720	1587	0	0	1468
Q Serve Time (g_s), s	4.3	0.0	0.0	40.0	9.6	0.0	0.0	0.7
Cycle Q Clear Time (g_c), s	4.3	0.0	0.0	40.0	9.6	0.0	0.0	0.7
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.12	0.00	0.00	0.02	0.50	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	122	0	0	765	211	0	0	738
V/C Ratio (X)	0.68	0.00	0.00	1.61	0.83	0.00	0.00	0.13
Avail Cap (c_a), veh/h	376	0	0	765	353	0	0	738
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.97	0.00	0.00	0.93
Uniform Delay (d1), s/veh	40.8	0.0	0.0	25.0	38.0	0.0	0.0	0.6
Incr Delay (d2), s/veh	26.9	0.0	0.0	280.6	28.8	0.0	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	67.6	0.0	0.0	305.6	66.8	0.0	0.0	0.7
1st-Term Q (Q1), veh/ln	2.0	0.0	0.0	18.9	4.2	0.0	0.0	0.3
2nd-Term Q (Q2), veh/ln	0.9	0.0	0.0	59.6	1.7	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	2.9	0.0	0.0	78.5	5.9	0.0	0.0	0.3
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.40	0.02	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	116.6	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	193.4
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	172	1107	26	14	445	86	20	67	9	88	80	80
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1727	1900	1727	1727	1727	1900	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	187	1203	28	15	484	93	22	73	10	96	87	87
Adj No. of Lanes	0	1	0	1	1	1	0	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	0	747	17	23	868	738	0	107	15	0	105	105
Arrive On Green	0.00	0.44	0.44	0.01	0.50	0.50	0.23	0.07	0.07	0.29	0.13	0.13
Sat Flow, veh/h	0	1681	39	1645	1727	1468	0	1488	204	0	794	794
Grp Volume(v), veh/h	0	0	1231	15	484	93	0	0	83	0	0	174
Grp Sat Flow(s),veh/h/ln	0	0	1720	1645	1727	1468	0	0	1691	0	0	1587
Q Serve(g_s), s	0.0	0.0	40.0	0.8	17.4	0.7	0.0	0.0	4.3	0.0	0.0	9.6
Cycle Q Clear(g_c), s	0.0	0.0	40.0	0.8	17.4	0.7	0.0	0.0	4.3	0.0	0.0	9.6
Prop In Lane	0.00		0.02	1.00		1.00	0.00		0.12	0.00		0.50
Lane Grp Cap(c), veh/h	0	0	765	23	868	738	0	0	122	0	0	211
V/C Ratio(X)	0.00	0.00	1.61	0.66	0.56	0.13	0.00	0.00	0.68	0.00	0.00	0.83
Avail Cap(c_a), veh/h	0	0	765	128	868	738	0	0	376	0	0	353
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.00	1.00	0.93	0.93	0.93	0.00	0.00	1.00	0.00	0.00	0.97
Uniform Delay (d), s/veh	0.0	0.0	25.0	44.2	15.5	0.6	0.0	0.0	40.8	0.0	0.0	38.0
Incr Delay (d2), s/veh	0.0	0.0	280.6	25.8	0.7	0.1	0.0	0.0	26.9	0.0	0.0	28.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.0	78.5	0.5	8.4	0.3	0.0	0.0	2.9	0.0	0.0	5.9
LnGrp Delay(d),s/veh	0.0	0.0	305.6	69.9	16.2	0.7	0.0	0.0	67.6	0.0	0.0	66.8
LnGrp LOS			F	E	B	A			E			E
Approach Vol, veh/h		1231			592			83			174	
Approach Delay, s/veh		305.6			15.1			67.6			66.8	
Approach LOS		F			B			E			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	30.3	10.5	5.3	44.0	24.8	15.9	0.0	49.3
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	7.0	20.0	7.0	40.0	7.0	20.0	7.0	40.0
Max Q Clear Time (g_c+I1), s	0.0	6.3	2.8	42.0	0.0	11.6	0.0	19.4
Green Ext Time (p_c), s	0.0	0.2	0.0	0.0	0.0	0.3	0.0	10.0

Intersection Summary	
HCM 2010 Ctrl Delay	193.4
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NWL	NWR	NWR2	SWL2	SWL	SWR
Lane Configurations												
Volume (veh/h)	0	792	92	62	435	22	0	0	0	0	0	0
Number	7	4	14	3	8	18	5	12	12	1	1	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	861	100	67	473	24	0	0	0	0	0	0
Adj No. of Lanes	1	1	0	1	1	0	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes	Yes	
Cap, veh/h	2	868	101	84	1081	55	2	0	0	420	420	375
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.00	0.57	0.57	0.05	0.66	0.66	0.00	0.00	0.00	0.00	0.00	0.00
Ln Grp Delay, s/veh	0.0	0.0	27.6	86.6	0.0	8.1	0.0	0.0	0.0	0.0	0.0	0.0
Ln Grp LOS			C	F		A						
Approach Vol, veh/h		961			564		0			0	0	
Approach Delay, s/veh		27.6			17.4		0.0			0.0	0.0	
Approach LOS		C			B							

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1		4	3	5	6	7	8
Case No	2.0		4.0	2.0	2.0	3.0	2.0	4.0
Phs Duration (G+Y+Rc), s	29.0		60.0	9.0	0.0	29.0	0.0	69.0
Change Period (Y+Rc), s	4.0		4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	4.0		56.0	5.0	4.0	17.0	4.0	57.0
Max Allow Headway (MAH), s	0.0		4.1	4.0	0.0	0.0	0.0	4.0
Max Q Clear (g_c+I1), s	0.0		56.9	5.9	0.0	0.0	0.0	15.5
Green Ext Time (g_e), s	0.0		0.0	0.0	0.0	0.0	0.0	2.2
Prob of Phs Call (p_c)	0.00		1.00	0.84	0.00	0.00	0.00	1.00
Prob of Max Out (p_x)	0.00		1.00	1.00	0.00	0.00	0.00	0.00

Left-Turn Movement Data								
Assigned Mvmt	1			3	5		7	
Mvmt Sat Flow, veh/h	1645			1645	1645		1645	

Through Movement Data								
Assigned Mvmt			4			6		8
Mvmt Sat Flow, veh/h			1520			1727		1630

Right-Turn Movement Data								
Assigned Mvmt			14			16		18
Mvmt Sat Flow, veh/h			176			1468		83

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	5	0	7	0
Lane Assignment	(Prot)			(Prot)	(Prot)		(Prot)	
Lanes in Grp	1	0	0	1	1	0	1	0

Grp Vol (v), veh/h	0	0	0	67	0	0	0	0
Grp Sat Flow (s), veh/h/ln	1645	0	0	1645	1645	0	1645	0
Q Serve Time (g_s), s	0.0	0.0	0.0	3.9	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	3.9	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	420	0	0	84	2	0	2	0
V/C Ratio (X)	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	420	0	0	84	67	0	67	0
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	46.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	40.5	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	86.6	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	0	4	0	0	6	0	8
Lane Assignment						T		
Lanes in Grp	0	0	0	0	0	1	0	0
Grp Vol (v), veh/h	0	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	1727	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	441	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	441	0	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	0	14	0	0	16	0	18
Lane Assignment			T+R			R		T+R
Lanes in Grp	0	0	1	0	0	1	0	1
Grp Vol (v), veh/h	0	0	961	0	0	0	0	497
Grp Sat Flow (s), veh/h/ln	0	0	1696	0	0	1468	0	1713
Q Serve Time (g_s), s	0.0	0.0	54.9	0.0	0.0	0.0	0.0	13.5
Cycle Q Clear Time (g_c), s	0.0	0.0	54.9	0.0	0.0	0.0	0.0	13.5
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.00	0.10	0.00	0.00	1.00	0.00	0.05
Lane Grp Cap (c), veh/h	0	0	969	0	0	375	0	1136
V/C Ratio (X)	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.44
Avail Cap (c_a), veh/h	0	0	969	0	0	375	0	1136
Upstream Filter (I)	0.00	0.00	0.09	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	20.8	0.0	0.0	0.0	0.0	7.8
Incr Delay (d2), s/veh	0.0	0.0	6.9	0.0	0.0	0.0	0.0	0.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	27.6	0.0	0.0	0.0	0.0	8.1
1st-Term Q (Q1), veh/ln	0.0	0.0	25.4	0.0	0.0	0.0	0.0	6.4
2nd-Term Q (Q2), veh/ln	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	27.2	0.0	0.0	0.0	0.0	6.4
%ile Storage Ratio (RQ%)	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	23.9
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NWL	NWR	NWR2	SWL2	SWL	SWR
Lane Configurations												
Volume (veh/h)	0	792	92	62	435	22	0	0	0	0	0	0
Number	7	4	14	3	8	18	5	12	12	1	1	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	861	100	67	473	24	0	0	0	0	0	0
Adj No. of Lanes	1	1	0	1	1	0	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	2	868	101	84	1081	55	2	0	0	420	420	375
Arrive On Green	0.00	0.57	0.57	0.05	0.66	0.66	0.00	0.00	0.00	0.00	0.00	0.00
Sat Flow, veh/h	1645	1520	176	1645	1630	83	1645			1645	1645	1468
Grp Volume(v), veh/h	0	0	961	67	0	497	0			0	0	0
Grp Sat Flow(s),veh/h/ln	1645	0	1696	1645	0	1713	1645			1645	1645	1468
Q Serve(g_s), s	0.0	0.0	54.9	3.9	0.0	13.5	0.0			0.0	0.0	0.0
Cycle Q Clear(g_c), s	0.0	0.0	54.9	3.9	0.0	13.5	0.0			0.0	0.0	0.0
Prop In Lane	1.00		0.10	1.00		0.05	1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	2	0	969	84	0	1136	2			420	420	375
V/C Ratio(X)	0.00	0.00	0.99	0.80	0.00	0.44	0.00			0.00	0.00	0.00
Avail Cap(c_a), veh/h	67	0	969	84	0	1136	67			420	420	375
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00			1.00	1.00	1.00
Upstream Filter(I)	0.00	0.00	0.09	1.00	0.00	1.00	0.00			0.00	0.00	0.00
Uniform Delay (d), s/veh	0.0	0.0	20.8	46.0	0.0	7.8	0.0			0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	6.9	40.5	0.0	0.3	0.0			0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.0	27.2	2.7	0.0	6.4	0.0			0.0	0.0	0.0
LnGrp Delay(d),s/veh	0.0	0.0	27.6	86.6	0.0	8.1	0.0			0.0	0.0	0.0
LnGrp LOS			C	F		A						
Approach Vol, veh/h		961			564		0			0	0	
Approach Delay, s/veh		27.6			17.4		0.0			0.0	0.0	
Approach LOS		C			B							

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1		3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	29.0		9.0	60.0	0.0	29.0	0.0	69.0
Change Period (Y+Rc), s	4.0		4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	4.0		5.0	56.0	4.0	17.0	4.0	57.0
Max Q Clear Time (g_c+I1), s	0.0		5.9	56.9	0.0	0.0	0.0	15.5
Green Ext Time (p_c), s	0.0		0.0	0.0	0.0	0.0	0.0	2.2

Intersection Summary	
HCM 2010 Ctrl Delay	23.9
HCM 2010 LOS	C

Intersection	
Intersection Delay, s/veh	14.6
Intersection LOS	B

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Vol, veh/h	0	14	130	0	0	51	51	16	0	0	240	246	0	14	53	12
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	15	141	0	0	55	55	17	0	0	261	267	0	15	58	13
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	10.9	10.5	17.6	9.5
HCM LOS	B	B	C	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	10%	43%	18%
Vol Thru, %	49%	90%	43%	67%
Vol Right, %	51%	0%	14%	15%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	486	144	118	79
LT Vol	0	14	51	14
Through Vol	240	130	51	53
RT Vol	246	0	16	12
Lane Flow Rate	528	157	128	86
Geometry Grp	1	1	1	1
Degree of Util (X)	0.686	0.256	0.211	0.134
Departure Headway (Hd)	4.789	5.895	5.936	5.616
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	761	612	607	640
Service Time	2.789	3.906	3.949	3.641
HCM Lane V/C Ratio	0.694	0.257	0.211	0.134
HCM Control Delay	17.6	10.9	10.5	9.5
HCM Lane LOS	C	B	B	A
HCM 95th-tile Q	5.5	1	0.8	0.5

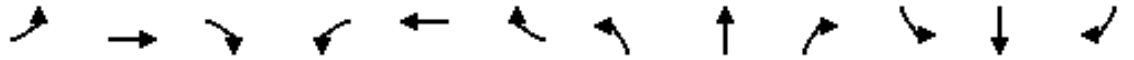
Intersection	
Int Delay, s/veh	0.9

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	25	355	123	38	16	8
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	27	386	134	41	17	9

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	175	0	-	0	594	154
Stage 1	-	-	-	-	154	-
Stage 2	-	-	-	-	440	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1354	-	-	-	455	871
Stage 1	-	-	-	-	855	-
Stage 2	-	-	-	-	633	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1354	-	-	-	444	871
Mov Cap-2 Maneuver	-	-	-	-	444	-
Stage 1	-	-	-	-	855	-
Stage 2	-	-	-	-	617	-

Approach	EB	WB	SB
HCM Control Delay, s	0.5	0	12.1
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1354	-	-	-	531
HCM Lane V/C Ratio	0.02	-	-	-	0.049
HCM Control Delay (s)	7.7	0	-	-	12.1
HCM Lane LOS	A	A	-	-	B
HCM 95th %tile Q(veh)	0.1	-	-	-	0.2



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	29	305	23	29	328	64	78	276	19	70	52	10
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1727	1900	1900	1727	1900	1900	1727	1727	1900	1727	1900
Adj Flow Rate, veh/h	32	332	25	32	357	70	85	300	21	76	57	11
Adj No. of Lanes	0	1	0	0	1	0	0	1	1	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	149	596	43	143	536	100	226	489	507	275	163	22
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.40	0.40	0.40	0.40	0.40	0.40	0.35	0.35	0.35	0.35	0.35	0.35
Ln Grp Delay, s/veh	7.8	0.0	0.0	8.5	0.0	0.0	9.3	0.0	6.9	8.3	0.0	0.0
Ln Grp LOS	A			A			A		A	A		
Approach Vol, veh/h		389			459			406			144	
Approach Delay, s/veh		7.8			8.5			9.2			8.3	
Approach LOS		A			A			A			A	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Case No		7.0		8.0		8.0		8.0
Phs Duration (G+Y+Rc), s		14.9		16.7		14.9		16.7
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green (Gmax), s		39.0		43.0		39.0		43.0
Max Allow Headway (MAH), s		4.2		4.1		4.2		4.1
Max Q Clear (g_c+I1), s		8.0		7.6		8.7		9.1
Green Ext Time (g_e), s		2.2		3.6		2.2		3.5
Prob of Phs Call (p_c)		1.00		1.00		1.00		1.00
Prob of Max Out (p_x)		0.00		0.00		0.00		0.00

Left-Turn Movement Data								
Assigned Mvmt		5		7		1		3
Mvmt Sat Flow, veh/h		251		63		291		53

Through Movement Data								
Assigned Mvmt		2		4		6		8
Mvmt Sat Flow, veh/h		1416		1486		472		1336

Right-Turn Movement Data								
Assigned Mvmt		12		14		16		18
Mvmt Sat Flow, veh/h		1468		106		63		250

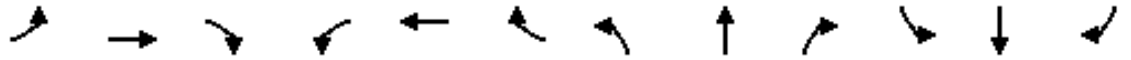
Left Lane Group Data								
Assigned Mvmt	0	5	0	7	0	1	0	3
Lane Assignment		L+T		L+T+R		L+T+R		L+T+R
Lanes in Grp	0	1	0	1	0	1	0	1

Grp Vol (v), veh/h	0	385	0	389	0	144	0	459
Grp Sat Flow (s), veh/h/ln	0	1668	0	1655	0	827	0	1639
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.5
Cycle Q Clear Time (g_c), s	0.0	6.0	0.0	5.6	0.0	6.7	0.0	7.1
Perm LT Sat Flow (s_l), veh/h/ln	0	1354	0	976	0	1075	0	1041
Shared LT Sat Flow (s_sh), veh/h/ln	0	1708	0	1720	0	0	0	1721
Perm LT Eff Green (g_p), s	0.0	10.9	0.0	12.7	0.0	10.9	0.0	12.7
Perm LT Serve Time (g_u), s	0.0	4.2	0.0	5.5	0.0	4.9	0.0	7.1
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.5
Time to First Blk (g_f), s	0.0	3.3	0.0	6.6	0.0	1.8	0.0	6.6
Serve Time pre Blk (g_fs), s	0.0	3.3	0.0	5.6	0.0	1.8	0.0	6.6
Prop LT Inside Lane (P_L)	0.00	0.22	0.00	0.08	0.00	0.53	0.00	0.07
Lane Grp Cap (c), veh/h	0	715	0	788	0	460	0	780
V/C Ratio (X)	0.00	0.54	0.00	0.49	0.00	0.31	0.00	0.59
Avail Cap (c_a), veh/h	0	2127	0	2312	0	1544	0	2311
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	8.7	0.0	7.3	0.0	8.0	0.0	7.8
Incr Delay (d2), s/veh	0.0	0.6	0.0	0.5	0.0	0.4	0.0	0.7
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	9.3	0.0	7.8	0.0	8.3	0.0	8.5
1st-Term Q (Q1), veh/ln	0.0	2.8	0.0	2.6	0.0	1.1	0.0	3.2
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.2
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	2.9	0.0	2.7	0.0	1.1	0.0	3.3
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	0	8
Lane Assignment								
Lanes in Grp	0	0	0	0	0	0	0	0
Grp Vol (v), veh/h	0	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	0	18
Lane Assignment		R						
Lanes in Grp	0	1	0	0	0	0	0	0
Grp Vol (v), veh/h	0	21	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	1468	0	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	0.06	0.00	0.08	0.00	0.15
Lane Grp Cap (c), veh/h	0	507	0	0	0	0	0	0
V/C Ratio (X)	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	1814	0	0	0	0	0	0
Upstream Filter (I)	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	8.5
HCM 2010 LOS	A



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	29	305	23	29	328	64	78	276	19	70	52	10
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1727	1900	1900	1727	1900	1900	1727	1727	1900	1727	1900
Adj Flow Rate, veh/h	32	332	25	32	357	70	85	300	21	76	57	11
Adj No. of Lanes	0	1	0	0	1	0	0	1	1	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	149	596	43	143	536	100	226	489	507	275	163	22
Arrive On Green	0.40	0.40	0.40	0.40	0.40	0.40	0.35	0.35	0.35	0.35	0.35	0.35
Sat Flow, veh/h	63	1486	106	53	1336	250	251	1416	1468	291	472	63
Grp Volume(v), veh/h	389	0	0	459	0	0	385	0	21	144	0	0
Grp Sat Flow(s),veh/h/ln	1655	0	0	1639	0	0	1668	0	1468	827	0	0
Q Serve(g_s), s	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.3	0.8	0.0	0.0
Cycle Q Clear(g_c), s	5.6	0.0	0.0	7.1	0.0	0.0	6.0	0.0	0.3	6.7	0.0	0.0
Prop In Lane	0.08		0.06	0.07		0.15	0.22		1.00	0.53		0.08
Lane Grp Cap(c), veh/h	788	0	0	780	0	0	715	0	507	460	0	0
V/C Ratio(X)	0.49	0.00	0.00	0.59	0.00	0.00	0.54	0.00	0.04	0.31	0.00	0.00
Avail Cap(c_a), veh/h	2312	0	0	2311	0	0	2127	0	1814	1544	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	7.3	0.0	0.0	7.8	0.0	0.0	8.7	0.0	6.9	8.0	0.0	0.0
Incr Delay (d2), s/veh	0.5	0.0	0.0	0.7	0.0	0.0	0.6	0.0	0.0	0.4	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.7	0.0	0.0	3.3	0.0	0.0	2.9	0.0	0.1	1.1	0.0	0.0
LnGrp Delay(d),s/veh	7.8	0.0	0.0	8.5	0.0	0.0	9.3	0.0	6.9	8.3	0.0	0.0
LnGrp LOS	A			A			A		A	A		
Approach Vol, veh/h		389			459			406			144	
Approach Delay, s/veh		7.8			8.5			9.2			8.3	
Approach LOS		A			A			A			A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Phs Duration (G+Y+Rc), s		14.9		16.7		14.9		16.7
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green Setting (Gmax), s		39.0		43.0		39.0		43.0
Max Q Clear Time (g_c+I1), s		8.0		7.6		8.7		9.1
Green Ext Time (p_c), s		2.2		3.6		2.2		3.5

Intersection Summary		
HCM 2010 Ctrl Delay		8.5
HCM 2010 LOS		A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	276	2655	168	869	1025	60	1125	1282	453	1588	4117	214
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	300	2886	183	945	1114	65	1223	1393	492	1726	4475	233
Adj No. of Lanes	2	3	1	2	3	0	2	3	0	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	334	1218	379	346	1194	70	399	1121	392	558	1768	551
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.10	0.26	0.26	0.11	0.26	0.26	0.13	0.32	0.32	0.17	0.38	0.38
Ln Grp Delay, s/veh	78.5	663.2	38.7	834.2	45.5	47.3	982.7	149.7	156.4	990.7	726.5	14.9
Ln Grp LOS	E	F	D	F	D	D	F	F	F	F	F	B
Approach Vol, veh/h		3369			2124			3108			6434	
Approach Delay, s/veh		577.2			396.8			478.8			771.6	
Approach LOS		F			F			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	5	6	8	7
Case No	4.0	2.0	2.0	3.0	2.0	3.0	4.0	2.0
Phs Duration (G+Y+Rc), s	43.0	25.0	17.0	35.0	19.0	49.0	35.4	16.6
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	39.0	21.0	13.0	31.0	15.0	45.0	32.0	12.0
Max Allow Headway (MAH), s	4.1	4.0	4.1	4.0	4.1	4.0	4.0	4.0
Max Q Clear (g_c+I1), s	41.0	23.0	15.0	33.0	17.0	47.0	30.7	13.1
Green Ext Time (g_e), s	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prob of Max Out (p_x)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt		1	3		5			7
Mvmt Sat Flow, veh/h		3191	3191		3191			3191

Through Movement Data								
Assigned Mvmt	2			4		6	8	
Mvmt Sat Flow, veh/h	3451			4715		4715	4558	

Right-Turn Movement Data								
Assigned Mvmt	12			14		16	18	
Mvmt Sat Flow, veh/h	1207			1468		1468	266	

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	5	0	0	7
Lane Assignment		(Prot)	(Prot)		(Prot)			(Prot)
Lanes in Grp	0	2	2	0	2	0	0	2

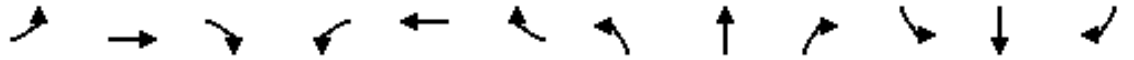
Grp Vol (v), veh/h	0	1726	945	0	1223	0	0	300
Grp Sat Flow (s), veh/h/ln	0	1596	1596	0	1596	0	0	1596
Q Serve Time (g_s), s	0.0	21.0	13.0	0.0	15.0	0.0	0.0	11.1
Cycle Q Clear Time (g_c), s	0.0	21.0	13.0	0.0	15.0	0.0	0.0	11.1
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	558	346	0	399	0	0	334
V/C Ratio (X)	0.00	3.09	2.73	0.00	3.07	0.00	0.00	0.90
Avail Cap (c_a), veh/h	0	558	346	0	399	0	0	334
Upstream Filter (I)	0.00	0.09	0.09	0.00	0.09	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	49.5	53.5	0.0	52.5	0.0	0.0	53.1
Incr Delay (d2), s/veh	0.0	941.2	780.7	0.0	930.2	0.0	0.0	25.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	990.7	834.2	0.0	982.7	0.0	0.0	78.5
1st-Term Q (Q1), veh/ln	0.0	9.2	5.7	0.0	6.6	0.0	0.0	4.9
2nd-Term Q (Q2), veh/ln	0.0	73.0	37.5	0.0	51.5	0.0	0.0	1.2
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	82.2	43.2	0.0	58.1	0.0	0.0	6.1
%ile Storage Ratio (RQ%)	0.00	0.21	0.08	0.00	0.07	0.00	0.00	0.03
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	291.9	149.8	0.0	206.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.8	0.7	0.0	0.8	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	0	6	8	0
Lane Assignment	T			T		T	T	
Lanes in Grp	2	0	0	3	0	3	2	0
Grp Vol (v), veh/h	1268	0	0	2886	0	4475	768	0
Grp Sat Flow (s), veh/h/ln	1572	0	0	1572	0	1572	1572	0
Q Serve Time (g_s), s	39.0	0.0	0.0	31.0	0.0	45.0	28.6	0.0
Cycle Q Clear Time (g_c), s	39.0	0.0	0.0	31.0	0.0	45.0	28.6	0.0
Lane Grp Cap (c), veh/h	1022	0	0	1218	0	1768	823	0
V/C Ratio (X)	1.24	0.00	0.00	2.37	0.00	2.53	0.93	0.00
Avail Cap (c_a), veh/h	1022	0	0	1218	0	1768	838	0
Upstream Filter (I)	0.09	0.00	0.00	1.00	0.00	0.09	0.09	0.00
Uniform Delay (d1), s/veh	40.5	0.0	0.0	44.5	0.0	37.5	43.3	0.0
Incr Delay (d2), s/veh	109.2	0.0	0.0	618.7	0.0	689.0	2.2	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	149.7	0.0	0.0	663.2	0.0	726.5	45.5	0.0
1st-Term Q (Q1), veh/ln	16.9	0.0	0.0	13.4	0.0	19.5	12.4	0.0
2nd-Term Q (Q2), veh/ln	15.5	0.0	0.0	69.8	0.0	112.8	0.3	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	32.4	0.0	0.0	83.2	0.0	132.3	12.6	0.0
%ile Storage Ratio (RQ%)	0.04	0.00	0.00	0.43	0.00	0.34	0.02	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	61.5	0.0	0.0	417.0	0.0	676.7	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.3	0.0	0.0	0.6	0.0	0.6	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	0	14	0	16	18	0
Lane Assignment	T+R			R		R	T+R	
Lanes in Grp	1	0	0	1	0	1	1	0
Grp Vol (v), veh/h	617	0	0	183	0	233	411	0
Grp Sat Flow (s), veh/h/ln	1514	0	0	1468	0	1468	1680	0
Q Serve Time (g_s), s	39.0	0.0	0.0	12.7	0.0	10.3	28.7	0.0
Cycle Q Clear Time (g_c), s	39.0	0.0	0.0	12.7	0.0	10.3	28.7	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.80	0.00	0.00	1.00	0.00	1.00	0.16	0.00
Lane Grp Cap (c), veh/h	492	0	0	379	0	551	440	0
V/C Ratio (X)	1.25	0.00	0.00	0.48	0.00	0.42	0.93	0.00
Avail Cap (c_a), veh/h	492	0	0	379	0	551	448	0
Upstream Filter (I)	0.09	0.00	0.00	1.00	0.00	0.09	0.09	0.00
Uniform Delay (d1), s/veh	40.5	0.0	0.0	37.7	0.0	14.7	43.3	0.0
Incr Delay (d2), s/veh	115.9	0.0	0.0	1.0	0.0	0.2	4.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	156.4	0.0	0.0	38.7	0.0	14.9	47.3	0.0
1st-Term Q (Q1), veh/ln	16.3	0.0	0.0	5.1	0.0	4.2	13.2	0.0
2nd-Term Q (Q2), veh/ln	15.8	0.0	0.0	0.1	0.0	0.0	0.5	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	32.1	0.0	0.0	5.2	0.0	4.2	13.7	0.0
%ile Storage Ratio (RQ%)	0.04	0.00	0.00	0.03	0.00	0.01	0.03	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	31.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0

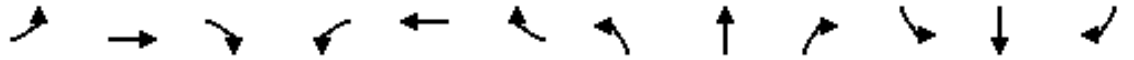
Intersection Summary	
HCM 2010 Ctrl Delay	614.5
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	276	2655	168	869	1025	60	1125	1282	453	1588	4117	214
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	300	2886	183	945	1114	65	1223	1393	492	1726	4475	233
Adj No. of Lanes	2	3	1	2	3	0	2	3	0	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	334	1218	379	346	1194	70	399	1121	392	558	1768	551
Arrive On Green	0.10	0.26	0.26	0.11	0.26	0.26	0.13	0.32	0.32	0.17	0.38	0.38
Sat Flow, veh/h	3191	4715	1468	3191	4558	266	3191	3451	1207	3191	4715	1468
Grp Volume(v), veh/h	300	2886	183	945	768	411	1223	1268	617	1726	4475	233
Grp Sat Flow(s),veh/h/ln	1596	1572	1468	1596	1572	1680	1596	1572	1514	1596	1572	1468
Q Serve(g_s), s	11.1	31.0	12.7	13.0	28.6	28.7	15.0	39.0	39.0	21.0	45.0	10.3
Cycle Q Clear(g_c), s	11.1	31.0	12.7	13.0	28.6	28.7	15.0	39.0	39.0	21.0	45.0	10.3
Prop In Lane	1.00		1.00	1.00		0.16	1.00		0.80	1.00		1.00
Lane Grp Cap(c), veh/h	334	1218	379	346	823	440	399	1022	492	558	1768	551
V/C Ratio(X)	0.90	2.37	0.48	2.73	0.93	0.93	3.07	1.24	1.25	3.09	2.53	0.42
Avail Cap(c_a), veh/h	334	1218	379	346	838	448	399	1022	492	558	1768	551
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Uniform Delay (d), s/veh	53.1	44.5	37.7	53.5	43.3	43.3	52.5	40.5	40.5	49.5	37.5	14.7
Incr Delay (d2), s/veh	25.4	618.7	1.0	780.7	2.2	4.0	930.2	109.2	115.9	941.2	689.0	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.1	83.2	5.2	43.2	12.6	13.7	58.1	32.4	32.1	82.2	132.3	4.2
LnGrp Delay(d),s/veh	78.5	663.2	38.7	834.2	45.5	47.3	982.7	149.7	156.4	990.7	726.5	14.9
LnGrp LOS	E	F	D	F	D	D	F	F	F	F	F	B
Approach Vol, veh/h		3369			2124			3108			6434	
Approach Delay, s/veh		577.2			396.8			478.8			771.6	
Approach LOS		F			F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	25.0	43.0	17.0	35.0	19.0	49.0	16.6	35.4
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	21.0	39.0	13.0	31.0	15.0	45.0	12.0	32.0
Max Q Clear Time (g_c+I1), s	13.0	41.0	15.0	33.0	17.0	47.0	13.1	30.7
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8

Intersection Summary		
HCM 2010 Ctrl Delay	614.5	
HCM 2010 LOS	F	



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	25	2427	440	771	1898	881	0	0	519	0	0	0
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	27	2638	478	838	2063	958	0	0	564	0	0	0
Adj No. of Lanes	1	2	1	2	2	1	2	2	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	33	1641	734	505	2096	938	771	574	257	106	4	1
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.02	0.50	0.50	0.16	0.64	0.64	0.00	0.00	0.17	0.00	0.00	0.00
Ln Grp Delay, s/veh	63.5	303.7	22.4	355.5	37.2	46.4	0.0	0.0	599.9	0.0	0.0	0.0
Ln Grp LOS	E	F	C	F	D	F			F			
Approach Vol, veh/h		3143			3859			564			0	
Approach Delay, s/veh		258.9			108.6			599.9			0.0	
Approach LOS		F			F			F				

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	6	5	7	8
Case No	3.0	2.0	3.0	2.0	3.0	2.0	2.0	3.0
Phs Duration (G+Y+Rc), s	25.0	8.0	64.0	23.0	0.0	33.0	6.4	80.6
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	21.0	4.0	60.0	19.0	21.0	4.0	4.0	75.0
Max Allow Headway (MAH), s	4.4	0.0	4.1	4.1	0.0	0.0	4.1	4.1
Max Q Clear (g_c+I1), s	23.0	0.0	62.0	21.0	0.0	0.0	4.0	75.4
Green Ext Time (g_e), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prob of Phs Call (p_c)	1.00	0.00	1.00	1.00	0.00	0.00	0.59	1.00
Prob of Max Out (p_x)	1.00	0.00	1.00	1.00	0.00	0.00	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt		1		3		5	7	
Mvmt Sat Flow, veh/h		3191		3191		3191	1645	

Through Movement Data								
Assigned Mvmt	2		4		6			8
Mvmt Sat Flow, veh/h	3282		3282		4715			3282

Right-Turn Movement Data								
Assigned Mvmt	12		14		16			18
Mvmt Sat Flow, veh/h	1468		1468		1468			1468

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	0	5	7	0
Lane Assignment		(Prot)		(Prot)		(Prot)	(Prot)	
Lanes in Grp	0	2	0	2	0	2	1	0

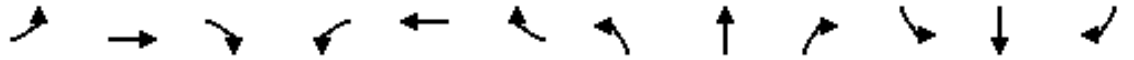
Grp Vol (v), veh/h	0	0	0	838	0	0	27	0
Grp Sat Flow (s), veh/h/ln	0	1596	0	1596	0	1596	1645	0
Q Serve Time (g_s), s	0.0	0.0	0.0	19.0	0.0	0.0	2.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	19.0	0.0	0.0	2.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	106	0	505	0	771	33	0
V/C Ratio (X)	0.00	0.00	0.00	1.66	0.00	0.00	0.83	0.00
Avail Cap (c_a), veh/h	0	106	0	505	0	771	55	0
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.00	0.09	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	50.5	0.0	0.0	58.6	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	305.0	0.0	0.0	4.9	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	355.5	0.0	0.0	63.5	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	8.4	0.0	0.0	0.9	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	21.4	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	29.8	0.0	0.0	0.9	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	4.30	0.00	0.00	0.33	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	83.2	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	6	0	0	8
Lane Assignment	T		T		T			T
Lanes in Grp	2	0	2	0	3	0	0	2
Grp Vol (v), veh/h	0	0	2638	0	0	0	0	2063
Grp Sat Flow (s), veh/h/ln	1641	0	1641	0	1572	0	0	1641
Q Serve Time (g_s), s	0.0	0.0	60.0	0.0	0.0	0.0	0.0	73.4
Cycle Q Clear Time (g_c), s	0.0	0.0	60.0	0.0	0.0	0.0	0.0	73.4
Lane Grp Cap (c), veh/h	574	0	1641	0	4	0	0	2096
V/C Ratio (X)	0.00	0.00	1.61	0.00	0.00	0.00	0.00	0.98
Avail Cap (c_a), veh/h	574	0	1641	0	825	0	0	2096
Upstream Filter (I)	0.00	0.00	0.09	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	30.0	0.0	0.0	0.0	0.0	21.1
Incr Delay (d2), s/veh	0.0	0.0	273.7	0.0	0.0	0.0	0.0	16.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	303.7	0.0	0.0	0.0	0.0	37.2
1st-Term Q (Q1), veh/ln	0.0	0.0	27.1	0.0	0.0	0.0	0.0	33.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	62.4	0.0	0.0	0.0	0.0	4.7

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	89.5	0.0	0.0	0.0	0.0	37.6
%ile Storage Ratio (RQ%)	0.00	0.00	0.19	0.00	0.00	0.00	0.00	1.54
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	249.3	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	16	0	0	18
Lane Assignment	R		R		R			R
Lanes in Grp	1	0	1	0	1	0	0	1
Grp Vol (v), veh/h	564	0	478	0	0	0	0	958
Grp Sat Flow (s), veh/h/ln	1468	0	1468	0	1468	0	0	1468
Q Serve Time (g_s), s	21.0	0.0	29.0	0.0	0.0	0.0	0.0	55.4
Cycle Q Clear Time (g_c), s	21.0	0.0	29.0	0.0	0.0	0.0	0.0	55.4
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	257	0	734	0	1	0	0	938
V/C Ratio (X)	2.20	0.00	0.65	0.00	0.00	0.00	0.00	1.02
Avail Cap (c_a), veh/h	257	0	734	0	257	0	0	938
Upstream Filter (I)	1.00	0.00	0.09	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	49.5	0.0	22.2	0.0	0.0	0.0	0.0	11.3
Incr Delay (d2), s/veh	550.4	0.0	0.2	0.0	0.0	0.0	0.0	35.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	599.9	0.0	22.4	0.0	0.0	0.0	0.0	46.4
1st-Term Q (Q1), veh/ln	8.5	0.0	11.7	0.0	0.0	0.0	0.0	22.0
2nd-Term Q (Q2), veh/ln	39.3	0.0	0.0	0.0	0.0	0.0	0.0	9.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	47.8	0.0	11.7	0.0	0.0	0.0	0.0	31.1
%ile Storage Ratio (RQ%)	3.85	0.00	1.38	0.00	0.00	0.00	0.00	1.28
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	76.8	0.0	0.0	0.0	0.0	0.0	0.0	5.1
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.3

Intersection Summary	
HCM 2010 Ctrl Delay	207.6
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	25	2427	440	771	1898	881	0	0	519	0	0	0
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	27	2638	478	838	2063	958	0	0	564	0	0	0
Adj No. of Lanes	1	2	1	2	2	1	2	2	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	33	1641	734	505	2096	938	771	574	257	106	4	1
Arrive On Green	0.02	0.50	0.50	0.16	0.64	0.64	0.00	0.00	0.17	0.00	0.00	0.00
Sat Flow, veh/h	1645	3282	1468	3191	3282	1468	3191	3282	1468	3191	4715	1468
Grp Volume(v), veh/h	27	2638	478	838	2063	958	0	0	564	0	0	0
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1596	1641	1468	1596	1641	1468	1596	1572	1468
Q Serve(g_s), s	2.0	60.0	29.0	19.0	73.4	55.4	0.0	0.0	21.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	2.0	60.0	29.0	19.0	73.4	55.4	0.0	0.0	21.0	0.0	0.0	0.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	33	1641	734	505	2096	938	771	574	257	106	4	1
V/C Ratio(X)	0.83	1.61	0.65	1.66	0.98	1.02	0.00	0.00	2.20	0.00	0.00	0.00
Avail Cap(c_a), veh/h	55	1641	734	505	2096	938	771	574	257	106	825	257
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.09	0.09	0.09	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00
Uniform Delay (d), s/veh	58.6	30.0	22.2	50.5	21.1	11.3	0.0	0.0	49.5	0.0	0.0	0.0
Incr Delay (d2), s/veh	4.9	273.7	0.2	305.0	16.1	35.0	0.0	0.0	550.4	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	89.5	11.7	29.8	37.6	31.1	0.0	0.0	47.8	0.0	0.0	0.0
LnGrp Delay(d),s/veh	63.5	303.7	22.4	355.5	37.2	46.4	0.0	0.0	599.9	0.0	0.0	0.0
LnGrp LOS	E	F	C	F	D	F			F			
Approach Vol, veh/h		3143			3859			564			0	
Approach Delay, s/veh		258.9			108.6			599.9			0.0	
Approach LOS		F			F			F				

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.0	25.0	23.0	64.0	33.0	0.0	6.4	80.6
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	4.0	21.0	19.0	60.0	4.0	21.0	4.0	75.0
Max Q Clear Time (g_c+I1), s	0.0	23.0	21.0	62.0	0.0	0.0	4.0	75.4
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary		
HCM 2010 Ctrl Delay	207.6	
HCM 2010 LOS	F	

Intersection	
Int Delay, s/veh	567

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	1691	49	45	606	169	161
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	0	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	1838	53	49	659	184	175

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	1891	0	2622	1865
Stage 1	-	-	-	-	1865	-
Stage 2	-	-	-	-	757	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	298	-	~ 25	~ 86
Stage 1	-	-	-	-	~ 128	-
Stage 2	-	-	-	-	449	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	298	-	~ 21	~ 86
Mov Cap-2 Maneuver	-	-	-	-	~ 21	-
Stage 1	-	-	-	-	~ 128	-
Stage 2	-	-	-	-	375	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.3	$ 4672.5
HCM LOS			F

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	33	-	-	298	-
HCM Lane V/C Ratio	10.87	-	-	0.164	-
HCM Control Delay (s)	$ 4672.5	-	-	19.4	-
HCM Lane LOS	F	-	-	C	-
HCM 95th %tile Q(veh)	43.8	-	-	0.6	-

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL2	SBL	SBR	NWL	NWR	NWR2
Lane Configurations												
Volume (veh/h)	42	602	23	161	70	82	8	255	44	188	324	131
Number	7	4	14	3	8	18	1	1	16	5	12	12
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1520	1520	1520	1520	1520	1520	1759	1759	1759	1759	1759	1759
Adj Flow Rate, veh/h	46	654	25	175	76	89	9	9	48	204	142	142
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	25	25	25	25	25	25	8	8	8	8	8	8
Opposing Right Turn Influence	Yes			Yes			Yes	Yes		Yes		
Cap, veh/h	174	1035	463	202	1091	488	15	15	269	242	472	472
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.12	0.36	0.36	0.14	0.38	0.38	0.01	0.01	0.18	0.14	0.32	0.32
Ln Grp Delay, s/veh	36.8	26.9	7.9	64.0	18.0	14.1	77.3	77.3	31.6	57.7	23.7	23.7
Ln Grp LOS	D	C	A	E	B	B	E	E	C	E	C	C
Approach Vol, veh/h		725			340		334	334		698		
Approach Delay, s/veh		26.9			40.7		51.6	51.6		36.1		
Approach LOS		C			D		D	D		D		

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	6	5	8	7
Case No	2.0	3.0	2.0	3.0	3.0	2.0	3.0	2.0
Phs Duration (G+Y+Rc), s	4.8	32.4	16.6	36.3	20.2	17.0	38.0	14.8
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	4.0	29.0	14.0	27.0	19.0	14.0	34.0	7.0
Max Allow Headway (MAH), s	4.1	4.1	4.2	4.1	4.1	4.1	4.2	4.1
Max Q Clear (g_c+I1), s	2.5	17.4	12.6	18.9	15.8	12.7	5.5	4.6
Green Ext Time (g_e), s	0.0	2.1	0.1	2.1	0.4	0.4	0.6	0.8
Prob of Phs Call (p_c)	0.20	1.00	0.99	1.00	1.00	0.99	1.00	0.68
Prob of Max Out (p_x)	1.00	0.11	1.00	0.00	1.00	1.00	0.00	1.00

Left-Turn Movement Data								
Assigned Mvmt	1		3			5		7
Mvmt Sat Flow, veh/h	1675		1448			1675		1448

Through Movement Data								
Assigned Mvmt		2		4	6		8	
Mvmt Sat Flow, veh/h		1759		2888	1759		2888	

Right-Turn Movement Data								
Assigned Mvmt		12		14	16		18	
Mvmt Sat Flow, veh/h		1495		1292	1495		1292	

Left Lane Group Data								
Assigned Mvmt	1	0	3	0	0	5	0	7
Lane Assignment	(Prot)		(Prot)			(Prot)		(Prot)
Lanes in Grp	1	0	1	0	0	1	0	1

Grp Vol (v), veh/h	9	0	175	0	0	204	0	46
Grp Sat Flow (s), veh/h/ln	1675	0	1448	0	0	1675	0	1448
Q Serve Time (g_s), s	0.5	0.0	10.6	0.0	0.0	10.7	0.0	2.6
Cycle Q Clear Time (g_c), s	0.5	0.0	10.6	0.0	0.0	10.7	0.0	2.6
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	15	0	202	0	0	242	0	174
V/C Ratio (X)	0.60	0.00	0.87	0.00	0.00	0.84	0.00	0.26
Avail Cap (c_a), veh/h	74	0	225	0	0	261	0	174
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	44.4	0.0	37.9	0.0	0.0	37.5	0.0	36.0
Incr Delay (d2), s/veh	32.9	0.0	26.2	0.0	0.0	20.2	0.0	0.8
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	77.3	0.0	64.0	0.0	0.0	57.7	0.0	36.8
1st-Term Q (Q1), veh/ln	0.2	0.0	4.3	0.0	0.0	4.9	0.0	1.0
2nd-Term Q (Q2), veh/ln	0.1	0.0	1.5	0.0	0.0	1.4	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.4	0.0	5.7	0.0	0.0	6.3	0.0	1.1
%ile Storage Ratio (RQ%)	0.02	0.00	0.20	0.00	0.00	0.36	0.00	0.05
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	6	0	8	0
Lane Assignment		T		T	T		T	
Lanes in Grp	0	1	0	2	1	0	2	0
Grp Vol (v), veh/h	0	352	0	654	277	0	76	0
Grp Sat Flow (s), veh/h/ln	0	1759	0	1444	1759	0	1444	0
Q Serve Time (g_s), s	0.0	15.4	0.0	16.9	13.8	0.0	1.5	0.0
Cycle Q Clear Time (g_c), s	0.0	15.4	0.0	16.9	13.8	0.0	1.5	0.0
Lane Grp Cap (c), veh/h	0	555	0	1035	316	0	1091	0
V/C Ratio (X)	0.00	0.63	0.00	0.63	0.88	0.00	0.07	0.00
Avail Cap (c_a), veh/h	0	567	0	1035	371	0	1091	0
Upstream Filter (I)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	26.4	0.0	23.9	36.0	0.0	17.9	0.0
Incr Delay (d2), s/veh	0.0	2.3	0.0	2.9	18.3	0.0	0.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	28.6	0.0	26.9	54.3	0.0	18.0	0.0
1st-Term Q (Q1), veh/ln	0.0	7.4	0.0	6.7	6.7	0.0	0.6	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.3	0.0	0.4	1.6	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	7.8	0.0	7.1	8.3	0.0	0.6	0.0
%ile Storage Ratio (RQ%)	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	16	0	18	0
Lane Assignment		R		R	R		R	
Lanes in Grp	0	1	0	1	1	0	1	0
Grp Vol (v), veh/h	0	142	0	25	48	0	89	0
Grp Sat Flow (s), veh/h/ln	0	1495	0	1292	1495	0	1292	0
Q Serve Time (g_s), s	0.0	6.5	0.0	0.7	2.4	0.0	3.5	0.0
Cycle Q Clear Time (g_c), s	0.0	6.5	0.0	0.7	2.4	0.0	3.5	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	472	0	463	269	0	488	0
V/C Ratio (X)	0.00	0.30	0.00	0.05	0.18	0.00	0.18	0.00
Avail Cap (c_a), veh/h	0	482	0	463	316	0	488	0
Upstream Filter (I)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	23.3	0.0	7.6	31.3	0.0	13.3	0.0
Incr Delay (d2), s/veh	0.0	0.4	0.0	0.2	0.3	0.0	0.8	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	23.7	0.0	7.9	31.6	0.0	14.1	0.0
1st-Term Q (Q1), veh/ln	0.0	2.7	0.0	0.3	1.0	0.0	1.2	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	2.7	0.0	0.3	1.0	0.0	1.4	0.0
%ile Storage Ratio (RQ%)	0.00	0.15	0.00	0.02	0.06	0.00	0.09	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	36.1
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL2	SBL	SBR	NWL	NWR	NWR2
Lane Configurations												
Volume (veh/h)	42	602	23	161	70	82	8	255	44	188	324	131
Number	7	4	14	3	8	18	1	1	16	5	12	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1520	1520	1520	1520	1520	1520	1759	1759	1759	1759	1759	1759
Adj Flow Rate, veh/h	46	654	25	175	76	89	9	9	48	204	142	142
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	25	25	25	25	25	25	8	8	8	8	8	8
Cap, veh/h	174	1035	463	202	1091	488	15	15	269	242	472	472
Arrive On Green	0.12	0.36	0.36	0.14	0.38	0.38	0.01	0.01	0.18	0.14	0.32	0.32
Sat Flow, veh/h	1448	2888	1292	1448	2888	1292	1675	1675	1495	1675	1495	1495
Grp Volume(v), veh/h	46	654	25	175	76	89	9	9	48	204	142	142
Grp Sat Flow(s),veh/h/ln	1448	1444	1292	1448	1444	1292	1675	1675	1495	1675	1495	1495
Q Serve(g_s), s	2.6	16.9	0.7	10.6	1.5	3.5	0.5	0.5	2.4	10.7	6.5	6.5
Cycle Q Clear(g_c), s	2.6	16.9	0.7	10.6	1.5	3.5	0.5	0.5	2.4	10.7	6.5	6.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lane Grp Cap(c), veh/h	174	1035	463	202	1091	488	15	15	269	242	472	472
V/C Ratio(X)	0.26	0.63	0.05	0.87	0.07	0.18	0.60	0.60	0.18	0.84	0.30	0.30
Avail Cap(c_a), veh/h	174	1035	463	225	1091	488	74	74	316	261	482	482
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	36.0	23.9	7.6	37.9	17.9	13.3	44.4	44.4	31.3	37.5	23.3	23.3
Incr Delay (d2), s/veh	0.8	2.9	0.2	26.2	0.1	0.8	32.9	32.9	0.3	20.2	0.4	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.1	7.1	0.3	5.7	0.6	1.4	0.4	0.4	1.0	6.3	2.7	2.7
LnGrp Delay(d),s/veh	36.8	26.9	7.9	64.0	18.0	14.1	77.3	77.3	31.6	57.7	23.7	23.7
LnGrp LOS	D	C	A	E	B	B	E	E	C	E	C	C
Approach Vol, veh/h		725			340		334	334		698		
Approach Delay, s/veh		26.9			40.7		51.6	51.6		36.1		
Approach LOS		C			D		D	D		D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	4.8	32.4	16.6	36.3	17.0	20.2	14.8	38.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax),4s	0	29.0	14.0	27.0	14.0	19.0	7.0	34.0
Max Q Clear Time (g_c+I1),2s	5	17.4	12.6	18.9	12.7	15.8	4.6	5.5
Green Ext Time (p_c), s	0.0	2.1	0.1	2.1	0.4	0.4	0.8	0.6

Intersection Summary	
HCM 2010 Ctrl Delay	36.1
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NWL	NWR
Lane Configurations										
Volume (veh/h)	0	484	618	6	622	0	64	243	0	0
Number	7	4	14	3	8	18	1	16		
Initial Q, veh	0	0	0	0	0	0	0	0		
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00		
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Adj Sat Flow, veh/h/ln	0	1520	1900	1900	1520	0	1450	1900		
Adj Flow Rate, veh/h	0	526	672	7	676	0	70	264		
Adj No. of Lanes	0	1	0	0	1	0	0	0		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92		
Percent Heavy Veh, %	0	25	25	25	25	0	0	0		
Opposing Right Turn Influence	No			Yes			Yes			
Cap, veh/h	0	445	569	0	1115	0	47	177		
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Prop Arrive On Green	0.00	0.73	0.73	0.00	0.73	0.00	0.18	0.18		
Ln Grp Delay, s/veh	0.0	0.0	103.8	0.0	8.1	0.0	281.2	0.0		
Ln Grp LOS			F		A		F			

Approach Vol, veh/h	1198	676	335	Timer:
Approach Delay, s/veh	103.8	8.1	281.2	Assigned Phs
Approach LOS	F	A	F	Case No
Phs Duration (G+Y+Rc), s	20.0	70.0		70.0
Change Period (Y+Rc), s	4.0	4.0		4.0
Max Green (Gmax), s	16.0	58.0		66.0
Max Allow Headway (MAH), s	4.4	4.2		4.2
Max Q Clear (g_c+I1), s	18.0	68.0		21.2
Green Ext Time (g_e), s	0.0	0.0		15.4
Prob of Phs Call (p_c)	1.00	1.00		1.00
Prob of Max Out (p_x)	1.00	0.00		0.00

Left-Turn Movement Data				
Assigned Mvmt	1	3	7	
Mvmt Sat Flow, veh/h	264	0	0	

Through Movement Data				
Assigned Mvmt	6		4	8
Mvmt Sat Flow, veh/h	4		607	1520

Right-Turn Movement Data				
Assigned Mvmt	16		14	18
Mvmt Sat Flow, veh/h	994		776	0

Left Lane Group Data									
Assigned Mvmt	1	0	3	7	0	0	0	0	
Lane Assignment	L+T+R								
Lanes in Grp	1	0	0	0	0	0	0	0	
Grp Vol (v), veh/h	335	0	0	0	0	0	0	0	
Grp Sat Flow (s), veh/h/ln	1262	0	0	0	0	0	0	0	
Q Serve Time (g_s), s	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Cycle Q Clear Time (g_c), s	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	66.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	224	0	0	0	0	0	0	0
V/C Ratio (X)	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	224	0	0	0	0	0	0	0
Upstream Filter (I)	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	37.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	244.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	281.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00
%ile Back of Q (50%), veh/ln	20.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	27.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	6	0	0	4	0	0	0	8
Lane Assignment								T
Lanes in Grp	0	0	0	0	0	0	0	1
Grp Vol (v), veh/h	0	0	0	0	0	0	0	676
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	1520
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.2
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.2
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	1115
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	1115
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.96
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6

%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Right Lane Group Data								
Assigned Mvmt	16	0	0	14	0	0	0	18
Lane Assignment				T+R				
Lanes in Grp	0	0	0	1	0	0	0	0
Grp Vol (v), veh/h	0	0	0	1198	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1383	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	66.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	66.0	0.0	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.79	0.00	0.00	0.56	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	0	0	1014	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.00	1.18	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	1014	0	0	0	0
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	12.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	91.8	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	103.8	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	24.5	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	25.9	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	50.4	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	45.9	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	101.4
HCM 2010 LOS	F

Notes

User approved volume balancing among the lanes for turning movement.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NWL	NWR
Lane Configurations										
Volume (veh/h)	0	484	618	6	622	0	64	243	0	0
Number	7	4	14	3	8	18	1	16		
Initial Q (Qb), veh	0	0	0	0	0	0	0	0		
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00		
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Adj Sat Flow, veh/h/ln	0	1520	1900	1900	1520	0	1450	1900		
Adj Flow Rate, veh/h	0	526	672	7	676	0	70	264		
Adj No. of Lanes	0	1	0	0	1	0	0	0		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92		
Percent Heavy Veh, %	0	25	25	25	25	0	0	0		
Cap, veh/h	0	445	569	0	1115	0	47	177		
Arrive On Green	0.00	0.73	0.73	0.00	0.73	0.00	0.18	0.18		
Sat Flow, veh/h	0	607	776	0	1520	0	264	994		
Grp Volume(v), veh/h	0	0	1198	0	676	0	335	0		
Grp Sat Flow(s),veh/h/ln	0	0	1383	0	1520	0	1262	0		
Q Serve(g_s), s	0.0	0.0	66.0	0.0	19.2	0.0	16.0	0.0		
Cycle Q Clear(g_c), s	0.0	0.0	66.0	0.0	19.2	0.0	16.0	0.0		
Prop In Lane	0.00		0.56	0.00		0.00	0.21	0.79		
Lane Grp Cap(c), veh/h	0	0	1014	0	1115	0	224	0		
V/C Ratio(X)	0.00	0.00	1.18	0.00	0.61	0.00	1.49	0.00		
Avail Cap(c_a), veh/h	0	0	1014	0	1115	0	224	0		
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Upstream Filter(I)	0.00	0.00	1.00	0.00	0.96	0.00	1.00	0.00		
Uniform Delay (d), s/veh	0.0	0.0	12.0	0.0	5.8	0.0	37.0	0.0		
Incr Delay (d2), s/veh	0.0	0.0	91.8	0.0	2.4	0.0	244.2	0.0		
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
%ile BackOfQ(50%),veh/ln	0.0	0.0	50.4	0.0	8.6	0.0	20.8	0.0		
LnGrp Delay(d),s/veh	0.0	0.0	103.8	0.0	8.1	0.0	281.2	0.0		
LnGrp LOS			F		A		F			
Approach Vol, veh/h		1198			676		335			
Approach Delay, s/veh		103.8			8.1		281.2			
Approach LOS		F			A		F			

Timer	1	2	3	4	5	6	7	8
Assigned Phs			3	4		6		8
Phs Duration (G+Y+Rc), s			0.0	70.0		20.0		70.0
Change Period (Y+Rc), s			4.0	4.0		4.0		4.0
Max Green Setting (Gmax), s			4.0	58.0		16.0		66.0
Max Q Clear Time (g_c+I1), s			0.0	68.0		18.0		21.2
Green Ext Time (p_c), s			0.0	0.0		0.0		15.4

Intersection Summary	
HCM 2010 Ctrl Delay	101.4
HCM 2010 LOS	F

Notes

User approved volume balancing among the lanes for turning movement.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBR	SEL	SER
Lane Configurations										
Volume (veh/h)	113	257	0	0	166	72	280	43	0	0
Number	7	4	14	3	8	18	5	12		
Initial Q, veh	0	0	0	0	0	0	0	0		
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00		
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Adj Sat Flow, veh/h/ln	1520	1520	0	0	1520	1520	1900	1900		
Adj Flow Rate, veh/h	123	279	0	0	180	78	0	47		
Adj No. of Lanes	1	1	0	0	1	1	0	0		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92		
Percent Heavy Veh, %	25	25	0	0	25	25	0	0		
Opposing Right Turn Influence	Yes			No			Yes			
Cap, veh/h	520	969	0	0	355	301	0	52		
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Prop Arrive On Green	0.36	0.64	0.00	0.00	0.23	0.23	0.00	0.27		
Ln Grp Delay, s/veh	20.2	7.3	0.0	0.0	35.1	30.2	0.0	42.9		
Ln Grp LOS	C	A			D	C		D		

Approach Vol, veh/h	402		258		351		Timer:
Approach Delay, s/veh	11.3		33.6		42.9		Assigned Phs
Approach LOS	B		C		D		Case No
Phs Duration (G+Y+Rc), s		28.7	61.3			25.0	36.3
Change Period (Y+Rc), s		4.0	4.0			4.0	4.0
Max Green (Gmax), s		39.0	43.0			21.0	18.0
Max Allow Headway (MAH), s		4.1	4.1			4.2	4.1
Max Q Clear (g_c+I1), s		23.5	9.3			11.3	7.4
Green Ext Time (g_e), s		1.1	1.4			0.6	1.1
Prob of Phs Call (p_c)		1.00	1.00			1.00	0.95
Prob of Max Out (p_x)		0.00	0.00			0.00	0.05

Left-Turn Movement Data								
Assigned Mvmt		5				3	7	
Mvmt Sat Flow, veh/h		0				0	1448	

Through Movement Data								
Assigned Mvmt		2		4		8		
Mvmt Sat Flow, veh/h		1227		1520		1520		

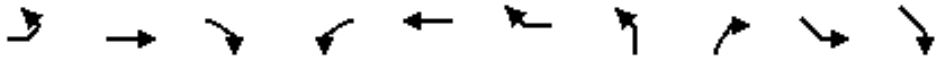
Right-Turn Movement Data								
Assigned Mvmt		12		14		18		
Mvmt Sat Flow, veh/h		190		0		1292		

Left Lane Group Data										
Assigned Mvmt	0	5	0	0	0	0	3	7		
Lane Assignment								(Prot)		
Lanes in Grp	0	0	0	0	0	0	0	1		
Grp Vol (v), veh/h	0	0	0	0	0	0	0	123		
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	1448		
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4		

Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	21.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	520
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	520
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.2
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.2
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	0	8	0
Lane Assignment				T			T	
Lanes in Grp	0	0	0	1	0	0	1	0
Grp Vol (v), veh/h	0	0	0	279	0	0	180	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1520	0	0	1520	0
Q Serve Time (g_s), s	0.0	0.0	0.0	7.3	0.0	0.0	9.3	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	7.3	0.0	0.0	9.3	0.0
Lane Grp Cap (c), veh/h	0	0	0	969	0	0	355	0
V/C Ratio (X)	0.00	0.00	0.00	0.29	0.00	0.00	0.51	0.00
Avail Cap (c_a), veh/h	0	0	0	969	0	0	355	0
Upstream Filter (I)	0.00	0.00	0.00	0.09	0.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	7.3	0.0	0.0	30.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.1	0.0	0.0	5.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	7.3	0.0	0.0	35.1	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	3.0	0.0	0.0	3.9	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	3.0	0.0	0.0	4.4	0.0

%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.03	0.00	0.00	0.01	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	0	18	0
Lane Assignment		T+R					R	
Lanes in Grp	0	1	0	0	0	0	1	0
Grp Vol (v), veh/h	0	351	0	0	0	0	78	0
Grp Sat Flow (s), veh/h/ln	0	1417	0	0	0	0	1292	0
Q Serve Time (g_s), s	0.0	21.5	0.0	0.0	0.0	0.0	4.4	0.0
Cycle Q Clear Time (g_c), s	0.0	21.5	0.0	0.0	0.0	0.0	4.4	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.13	0.00	0.00	0.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	388	0	0	0	0	301	0
V/C Ratio (X)	0.00	0.90	0.00	0.00	0.00	0.00	0.26	0.00
Avail Cap (c_a), veh/h	0	614	0	0	0	0	301	0
Upstream Filter (I)	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	31.5	0.0	0.0	0.0	0.0	28.1	0.0
Incr Delay (d2), s/veh	0.0	11.4	0.0	0.0	0.0	0.0	2.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	42.9	0.0	0.0	0.0	0.0	30.2	0.0
1st-Term Q (Q1), veh/ln	0.0	8.4	0.0	0.0	0.0	0.0	1.6	0.0
2nd-Term Q (Q2), veh/ln	0.0	1.2	0.0	0.0	0.0	0.0	0.2	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	9.6	0.0	0.0	0.0	0.0	1.8	0.0
%ile Storage Ratio (RQ%)	0.00	0.27	0.00	0.00	0.00	0.00	0.09	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	28.0
HCM 2010 LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBR	SEL	SER
Lane Configurations										
Volume (veh/h)	113	257	0	0	166	72	280	43	0	0
Number	7	4	14	3	8	18	5	12		
Initial Q (Qb), veh	0	0	0	0	0	0	0	0		
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00		
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Adj Sat Flow, veh/h/ln	1520	1520	0	0	1520	1520	1900	1900		
Adj Flow Rate, veh/h	123	279	0	0	180	78	0	47		
Adj No. of Lanes	1	1	0	0	1	1	0	0		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92		
Percent Heavy Veh, %	25	25	0	0	25	25	0	0		
Cap, veh/h	520	969	0	0	355	301	0	52		
Arrive On Green	0.36	0.64	0.00	0.00	0.23	0.23	0.00	0.27		
Sat Flow, veh/h	1448	1520	0	0	1520	1292	0	190		
Grp Volume(v), veh/h	123	279	0	0	180	78	0	351		
Grp Sat Flow(s),veh/h/ln	1448	1520	0	0	1520	1292	0	1417		
Q Serve(g_s), s	5.4	7.3	0.0	0.0	9.3	4.4	0.0	21.5		
Cycle Q Clear(g_c), s	5.4	7.3	0.0	0.0	9.3	4.4	0.0	21.5		
Prop In Lane	1.00		0.00	0.00		1.00	0.00	0.13		
Lane Grp Cap(c), veh/h	520	969	0	0	355	301	0	388		
V/C Ratio(X)	0.24	0.29	0.00	0.00	0.51	0.26	0.00	0.90		
Avail Cap(c_a), veh/h	520	969	0	0	355	301	0	614		
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Upstream Filter(I)	0.09	0.09	0.00	0.00	1.00	1.00	0.00	1.00		
Uniform Delay (d), s/veh	20.2	7.3	0.0	0.0	30.0	28.1	0.0	31.5		
Incr Delay (d2), s/veh	0.0	0.1	0.0	0.0	5.1	2.1	0.0	11.4		
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
%ile BackOfQ(50%),veh/ln	2.1	3.0	0.0	0.0	4.4	1.8	0.0	9.6		
LnGrp Delay(d),s/veh	20.2	7.3	0.0	0.0	35.1	30.2	0.0	42.9		
LnGrp LOS	C	A			D	C		D		
Approach Vol, veh/h		402			258		351			
Approach Delay, s/veh		11.3			33.6		42.9			
Approach LOS		B			C		D			

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4			7	8
Phs Duration (G+Y+Rc), s		28.7		61.3			36.3	25.0
Change Period (Y+Rc), s		4.0		4.0			4.0	4.0
Max Green Setting (Gmax), s		39.0		43.0			18.0	21.0
Max Q Clear Time (g_c+I1), s		23.5		9.3			7.4	11.3
Green Ext Time (p_c), s		1.1		1.4			1.1	0.6

Intersection Summary	
HCM 2010 Ctrl Delay	28.0
HCM 2010 LOS	C

Intersection	
Int Delay, s/veh	1.3

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	424	27	13	213	10	57
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	24	24	24	24	10	10
Mvmt Flow	461	29	14	232	11	62

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	490	0	736	476
Stage 1	-	-	-	-	476	-
Stage 2	-	-	-	-	260	-
Critical Hdwy	-	-	4.34	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.416	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	969	-	375	573
Stage 1	-	-	-	-	609	-
Stage 2	-	-	-	-	765	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	969	-	369	573
Mov Cap-2 Maneuver	-	-	-	-	369	-
Stage 1	-	-	-	-	609	-
Stage 2	-	-	-	-	752	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0.5	12.9
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	529	-	-	969	-
HCM Lane V/C Ratio	0.138	-	-	0.015	-
HCM Control Delay (s)	12.9	-	-	8.8	0
HCM Lane LOS	B	-	-	A	A
HCM 95th %tile Q(veh)	0.5	-	-	0	-

Intersection	
Int Delay, s/veh	1.9

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	16	31	72	645	117	86
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	8	8	8	8
Mvmt Flow	17	34	78	701	127	93

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	777	429	0	0	779	0
Stage 1	429	-	-	-	-	-
Stage 2	348	-	-	-	-	-
Critical Hdwy	6.5	6.3	-	-	4.18	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	-	-	2.272	-
Pot Cap-1 Maneuver	354	609	-	-	812	-
Stage 1	640	-	-	-	-	-
Stage 2	697	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	296	609	-	-	812	-
Mov Cap-2 Maneuver	296	-	-	-	-	-
Stage 1	640	-	-	-	-	-
Stage 2	582	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	14.1	0	5.9
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	448	812	-
HCM Lane V/C Ratio	-	-	0.114	0.157	-
HCM Control Delay (s)	-	-	14.1	10.3	0
HCM Lane LOS	-	-	B	B	A
HCM 95th %tile Q(veh)	-	-	0.4	0.6	-

Intersection	
Intersection Delay, s/veh	41.1
Intersection LOS	E

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	43	689	0	0	2	44	29	0	0	49	249
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	8	8	8	10	8	8	8	10	10	10	10
Mvmt Flow	0	47	749	0	0	2	48	32	0	0	53	271
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	1	1	1
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	1	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	1	1
HCM Control Delay	58.6	10.4	15.2
HCM LOS	F	B	C

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	6%	3%	38%
Vol Thru, %	16%	94%	59%	62%
Vol Right, %	84%	0%	39%	0%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	298	732	75	94
LT Vol	0	43	2	36
Through Vol	49	689	44	58
RT Vol	249	0	29	0
Lane Flow Rate	324	796	82	102
Geometry Grp	1	1	1	1
Degree of Util (X)	0.525	1	0.143	0.197
Departure Headway (Hd)	5.835	5.56	6.297	6.938
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	615	660	572	520
Service Time	3.908	3.572	4.304	4.948
HCM Lane V/C Ratio	0.527	1.206	0.143	0.196
HCM Control Delay	15.2	58.6	10.4	11.6
HCM Lane LOS	C	F	B	B
HCM 95th-tile Q	3.1	15.6	0.5	0.7

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	36	58	0
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10
Mvmt Flow	0	39	63	0
Number of Lanes	0	0	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	1
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	11.6
HCM LOS	B

Lane

Intersection	
Int Delay, s/veh	1.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NWL	NWR
Vol, veh/h	0	590	341	60	61	0	71	3	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	None	-	-
Storage Length	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	0	-	0	-
Grade, %	-	0	-	-	0	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	24	24	10	10
Mvmt Flow	0	641	371	65	66	0	77	3	0	0

Major/Minor	Major1			Major2			Minor2		
Conflicting Flow All	66	0	0	1012	0	0	1024	66	
Stage 1	-	-	-	-	-	-	197	-	
Stage 2	-	-	-	-	-	-	827	-	
Critical Hdwy	4.2	-	-	4.2	-	-	6.64	6.44	
Critical Hdwy Stg 1	-	-	-	-	-	-	5.64	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	5.64	-	
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.716	3.516	
Pot Cap-1 Maneuver	1486	-	-	655	-	-	237	940	
Stage 1	-	-	-	-	-	-	786	-	
Stage 2	-	-	-	-	-	-	394	-	
Platoon blocked, %		-	-		-	-			
Mov Cap-1 Maneuver	1486	-	-	655	-	-	213	940	
Mov Cap-2 Maneuver	-	-	-	-	-	-	213	-	
Stage 1	-	-	-	-	-	-	705	-	
Stage 2	-	-	-	-	-	-	394	-	

Approach	EB	WB	SB
HCM Control Delay, s	0	5.5	9.2
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	1486	-	-	655	-	-	940
HCM Lane V/C Ratio	-	-	-	0.1	-	-	0.086
HCM Control Delay (s)	0	-	-	11.1	0	-	9.2
HCM Lane LOS	A	-	-	B	A	-	A
HCM 95th %tile Q(veh)	0	-	-	0.3	-	-	0.3

Intersection	
Int Delay, s/veh	0.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SEL	SET	SER	NWL	NWT	NWR
Vol, veh/h	4	498	0	0	33	31	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	24	24	24	24	24	24
Mvmt Flow	4	541	0	0	36	34	0	0	0	0	0	0

Major/Minor	Major1			Major2			Minor1		
Conflicting Flow All	70	0	0	541	0	0	603	620	541
Stage 1	-	-	-	-	-	-	550	550	-
Stage 2	-	-	-	-	-	-	53	70	-
Critical Hdwy	4.2	-	-	4.2	-	-	6.64	6.74	6.44
Critical Hdwy Stg 1	-	-	-	-	-	-	5.64	5.74	-
Critical Hdwy Stg 2	-	-	-	-	-	-	5.64	5.74	-
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.716	4.216	3.516
Pot Cap-1 Maneuver	1481	-	-	988	-	-	428	376	501
Stage 1	-	-	-	-	-	-	536	482	-
Stage 2	-	-	-	-	-	-	916	795	-
Platoon blocked, %		-	-		-	-			
Mov Cap-1 Maneuver	1481	-	-	988	-	-	426	0	501
Mov Cap-2 Maneuver	-	-	-	-	-	-	426	0	-
Stage 1	-	-	-	-	-	-	534	0	-
Stage 2	-	-	-	-	-	-	916	0	-

Approach	EB	WB	NW
HCM Control Delay, s	0.1	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NWLn1	EBL	EBT	EBR	WBL	WBT	WBR
Capacity (veh/h)	-	1481	-	-	988	-	-
HCM Lane V/C Ratio	-	0.003	-	-	-	-	-
HCM Control Delay (s)	0	7.4	0	-	0	-	-
HCM Lane LOS	A	A	A	-	A	-	-
HCM 95th %tile Q(veh)	-	0	-	-	0	-	-

Intersection	
Int Delay, s/veh	2.1

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	0	0	62	89	66	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	0	67	97	72	1

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	304	72	73	0	-	0
Stage 1	72	-	-	-	-	-
Stage 2	232	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	671	968	1477	-	-	-
Stage 1	931	-	-	-	-	-
Stage 2	788	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	639	968	1477	-	-	-
Mov Cap-2 Maneuver	639	-	-	-	-	-
Stage 1	931	-	-	-	-	-
Stage 2	750	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	0	3.1	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1477	-	-	-	-
HCM Lane V/C Ratio	0.046	-	-	-	-
HCM Control Delay (s)	7.6	0	0	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0.1	-	-	-	-

Intersection	
Int Delay, s/veh	0

Movement	NBL	NBT	SBT	SBR	SEL	SER
Vol, veh/h	0	115	63	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	125	68	0	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	68	0	-	0	193	68
Stage 1	-	-	-	-	68	-
Stage 2	-	-	-	-	125	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1484	-	-	-	778	973
Stage 1	-	-	-	-	935	-
Stage 2	-	-	-	-	881	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1484	-	-	-	778	973
Mov Cap-2 Maneuver	-	-	-	-	778	-
Stage 1	-	-	-	-	935	-
Stage 2	-	-	-	-	881	-

Approach	NB	SB	SE
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBL	NBT	SELn1	SBT	SBR
Capacity (veh/h)	1484	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	0	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	-	-	-

Intersection	
Int Delay, s/veh	2.1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	53	30	665	108	4	463
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	8	8	8	8
Mvmt Flow	58	33	723	117	4	503

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1294	782	0	0	840	0
Stage 1	782	-	-	-	-	-
Stage 2	512	-	-	-	-	-
Critical Hdwy	6.5	6.3	-	-	4.18	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	-	-	2.272	-
Pot Cap-1 Maneuver	173	382	-	-	770	-
Stage 1	437	-	-	-	-	-
Stage 2	586	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	172	382	-	-	770	-
Mov Cap-2 Maneuver	172	-	-	-	-	-
Stage 1	437	-	-	-	-	-
Stage 2	582	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	33.3	0	0.1
HCM LOS	D		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	215	770	-
HCM Lane V/C Ratio	-	-	0.42	0.006	-
HCM Control Delay (s)	-	-	33.3	9.7	0
HCM Lane LOS	-	-	D	A	A
HCM 95th %tile Q(veh)	-	-	1.9	0	-

Intersection	
Int Delay, s/veh	4.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NWL	NWR
Vol, veh/h	4	251	16	19	90	24	212	16	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	None	-	-
Storage Length	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	0	-	0	-
Grade, %	-	0	-	-	0	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	24	24	24	24
Mvmt Flow	4	273	17	21	98	26	230	17	0	0

Major/Minor	Major1			Major2			Minor2			
Conflicting Flow All	124	0	0	290	0	0	442	111		
Stage 1	-	-	-	-	-	-	152	-		
Stage 2	-	-	-	-	-	-	290	-		
Critical Hdwy	4.2	-	-	4.2	-	-	6.64	6.44		
Critical Hdwy Stg 1	-	-	-	-	-	-	5.64	-		
Critical Hdwy Stg 2	-	-	-	-	-	-	5.64	-		
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.716	3.516		
Pot Cap-1 Maneuver	1415	-	-	1227	-	-	534	886		
Stage 1	-	-	-	-	-	-	825	-		
Stage 2	-	-	-	-	-	-	712	-		
Platoon blocked, %		-	-		-	-				
Mov Cap-1 Maneuver	1415	-	-	1227	-	-	523	886		
Mov Cap-2 Maneuver	-	-	-	-	-	-	523	-		
Stage 1	-	-	-	-	-	-	810	-		
Stage 2	-	-	-	-	-	-	710	-		

Approach	EB	WB	SB
HCM Control Delay, s	0.1	1.1	10.6
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	1415	-	-	1227	-	-	886
HCM Lane V/C Ratio	0.003	-	-	0.017	-	-	0.28
HCM Control Delay (s)	7.6	0	-	8	0	-	10.6
HCM Lane LOS	A	A	-	A	A	-	B
HCM 95th %tile Q(veh)	0	-	-	0.1	-	-	1.1

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NWL	NWR
Vol, veh/h	676	0	0	167	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	24	24
Mvmt Flow	735	0	0	182	0	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	735	0	917	735
Stage 1	-	-	-	-	735	-
Stage 2	-	-	-	-	182	-
Critical Hdwy	-	-	4.2	-	6.64	6.44
Critical Hdwy Stg 1	-	-	-	-	5.64	-
Critical Hdwy Stg 2	-	-	-	-	5.64	-
Follow-up Hdwy	-	-	2.29	-	3.716	3.516
Pot Cap-1 Maneuver	-	-	835	-	276	385
Stage 1	-	-	-	-	437	-
Stage 2	-	-	-	-	799	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	835	-	276	385
Mov Cap-2 Maneuver	-	-	-	-	276	-
Stage 1	-	-	-	-	437	-
Stage 2	-	-	-	-	799	-

Approach	EB	WB	NW
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NWLn1	NWLn2	EBT	EBR	WBL	WBT
Capacity (veh/h)	-	-	-	-	835	-
HCM Lane V/C Ratio	-	-	-	-	-	-
HCM Control Delay (s)	0	0	-	-	0	-
HCM Lane LOS	A	A	-	-	A	-
HCM 95th %tile Q(veh)	-	-	-	-	0	-

Intersection	
Int Delay, s/veh	0.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NEL	NER
Vol, veh/h	1	474	0	5	279	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	0	-	0	-
Grade, %	-	0	-	-	0	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	25	25	25	25	25	25	10	10	10	10
Mvmt Flow	1	515	0	5	303	0	0	0	0	0

Major/Minor	Major1			Major2			Minor2		Minor1	
Conflicting Flow All	303	0	0	515	0	0	831	303	831	515
Stage 1	-	-	-	-	-	-	314	-	517	-
Stage 2	-	-	-	-	-	-	517	-	314	-
Critical Hdwy	4.35	-	-	4.35	-	-	7.2	6.3	7.2	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	6.2	-	6.2	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.2	-	6.2	-
Follow-up Hdwy	2.425	-	-	2.425	-	-	3.59	3.39	3.59	3.39
Pot Cap-1 Maneuver	1138	-	-	943	-	-	280	718	280	544
Stage 1	-	-	-	-	-	-	680	-	527	-
Stage 2	-	-	-	-	-	-	527	-	680	-
Platoon blocked, %		-	-		-	-				
Mov Cap-1 Maneuver	1138	-	-	943	-	-	279	718	279	544
Mov Cap-2 Maneuver	-	-	-	-	-	-	279	-	279	-
Stage 1	-	-	-	-	-	-	679	-	526	-
Stage 2	-	-	-	-	-	-	526	-	676	-

Approach	EB	WB	SB	NE
HCM Control Delay, s	0	0.2	0	0
HCM LOS			A	A

Minor Lane/Major Mvmt	NELn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	-	1138	-	-	943	-	-	-
HCM Lane V/C Ratio	-	0.001	-	-	0.006	-	-	-
HCM Control Delay (s)	0	8.2	0	-	8.8	0	-	0
HCM Lane LOS	A	A	A	-	A	A	-	A
HCM 95th %tile Q(veh)	-	0	-	-	0	-	-	-

Intersection	
Intersection Delay, s/veh	7.9
Intersection LOS	A

Movement	NBU	NBT	NBR	SBU	SBL	SBT	SWU	SWL	SWR
Vol, veh/h	0	121	0	0	4	105	0	0	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	8	8	10	8	8	10	10	10
Mvmt Flow	0	132	0	0	4	114	0	0	0
Number of Lanes	0	1	0	0	0	1	0	0	1

Approach	NB	SB	SW
Opposing Approach	SB	NB	
Opposing Lanes	1	1	0
Conflicting Approach Left		SW	NB
Conflicting Lanes Left	0	1	1
Conflicting Approach Right	SW		SB
Conflicting Lanes Right	1	0	1
HCM Control Delay	7.9	7.8	0
HCM LOS	A	A	-

Lane	NBLn1	SBLn1	SWLn1
Vol Left, %	0%	4%	0%
Vol Thru, %	100%	96%	100%
Vol Right, %	0%	0%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	121	109	0
LT Vol	0	4	0
Through Vol	121	105	0
RT Vol	0	0	0
Lane Flow Rate	132	118	0
Geometry Grp	1	1	1
Degree of Util (X)	0.151	0.136	0
Departure Headway (Hd)	4.124	4.141	4.617
Convergence, Y/N	Yes	Yes	Yes
Cap	869	865	0
Service Time	2.149	2.169	2.617
HCM Lane V/C Ratio	0.152	0.136	0
HCM Control Delay	7.9	7.8	7.6
HCM Lane LOS	A	A	N
HCM 95th-tile Q	0.5	0.5	0

Intersection	
Int Delay, s/veh	0

Movement	NBT	NBR	SBL	SBT	SWL	SWR
Vol, veh/h	94	40	0	117	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	8	8	8	8	10	10
Mvmt Flow	102	43	0	127	0	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	146	0	251	124
Stage 1	-	-	-	-	124	-
Stage 2	-	-	-	-	127	-
Critical Hdwy	-	-	4.18	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.272	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	1400	-	720	906
Stage 1	-	-	-	-	882	-
Stage 2	-	-	-	-	879	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1400	-	720	906
Mov Cap-2 Maneuver	-	-	-	-	720	-
Stage 1	-	-	-	-	882	-
Stage 2	-	-	-	-	879	-

Approach	NB	SB	SW
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBT	NBR	SBL	SBT	SWLn1
Capacity (veh/h)	-	-	1400	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	-	-	0	-	0
HCM Lane LOS	-	-	A	-	A
HCM 95th %tile Q(veh)	-	-	0	-	-

Intersection	
Int Delay, s/veh	1.3

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	424	27	13	213	10	57
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	461	29	14	232	11	62

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	490	0	736	476
Stage 1	-	-	-	-	476	-
Stage 2	-	-	-	-	260	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	1033	-	375	573
Stage 1	-	-	-	-	609	-
Stage 2	-	-	-	-	765	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1033	-	369	573
Mov Cap-2 Maneuver	-	-	-	-	369	-
Stage 1	-	-	-	-	609	-
Stage 2	-	-	-	-	753	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0.5	12.5
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	NBLn2	EBT	EBR	WBL	WBT
Capacity (veh/h)	369	573	-	-	1033	-
HCM Lane V/C Ratio	0.029	0.108	-	-	0.014	-
HCM Control Delay (s)	15.1	12	-	-	8.5	0
HCM Lane LOS	C	B	-	-	A	A
HCM 95th %tile Q(veh)	0.1	0.4	-	-	0	-

Intersection	
Int Delay, s/veh	5.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	36	67	12	18	18	12	7	68	40	12	107	12
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	39	73	13	20	20	13	8	74	43	13	116	13

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	276	282	123	303	266	96	129	0	0	117	0	0
Stage 1	149	149	-	111	111	-	-	-	-	-	-	-
Stage 2	127	133	-	192	155	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.2	6.6	6.3	4.2	-	-	4.2	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.59	4.09	3.39	2.29	-	-	2.29	-	-
Pot Cap-1 Maneuver	661	613	907	634	626	939	1409	-	-	1423	-	-
Stage 1	835	759	-	875	788	-	-	-	-	-	-	-
Stage 2	858	771	-	792	754	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	628	603	907	560	616	939	1409	-	-	1423	-	-
Mov Cap-2 Maneuver	628	603	-	560	616	-	-	-	-	-	-	-
Stage 1	830	751	-	870	783	-	-	-	-	-	-	-
Stage 2	820	766	-	698	746	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	12.1	11.1	0.5	0.7
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1409	-	-	633	647	1423	-	-
HCM Lane V/C Ratio	0.005	-	-	0.197	0.081	0.009	-	-
HCM Control Delay (s)	7.6	0	-	12.1	11.1	7.6	0	-
HCM Lane LOS	A	A	-	B	B	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.7	0.3	0	-	-

Intersection	
Int Delay, s/veh	0.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	2	2	7	5	10	6	4	403	5	0	313	18
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	362	-	-	401	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	22	22	22	22	22	22	25	25	25	25	25	25
Mvmt Flow	2	2	8	5	11	7	4	438	5	0	340	20

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	808	802	350	804	809	441	360	0	0	443	0	0
Stage 1	350	350	-	449	449	-	-	-	-	-	-	-
Stage 2	458	452	-	355	360	-	-	-	-	-	-	-
Critical Hdwy	7.32	6.72	6.42	7.32	6.72	6.42	4.35	-	-	4.35	-	-
Critical Hdwy Stg 1	6.32	5.72	-	6.32	5.72	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.32	5.72	-	6.32	5.72	-	-	-	-	-	-	-
Follow-up Hdwy	3.698	4.198	3.498	3.698	4.198	3.498	2.425	-	-	2.425	-	-
Pot Cap-1 Maneuver	277	295	650	279	293	576	1082	-	-	1005	-	-
Stage 1	627	599	-	552	540	-	-	-	-	-	-	-
Stage 2	546	538	-	623	593	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	265	294	650	273	292	576	1082	-	-	1005	-	-
Mov Cap-2 Maneuver	265	294	-	273	292	-	-	-	-	-	-	-
Stage 1	625	599	-	550	538	-	-	-	-	-	-	-
Stage 2	527	536	-	613	593	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	13.5	16.6	0.1	0
HCM LOS	B	C		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1082	-	-	438	333	1005	-	-
HCM Lane V/C Ratio	0.004	-	-	0.027	0.069	-	-	-
HCM Control Delay (s)	8.3	-	-	13.5	16.6	0	-	-
HCM Lane LOS	A	-	-	B	C	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0.2	0	-	-

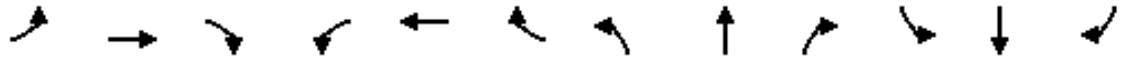
Intersection	
Int Delay, s/veh	1.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	3	624	32	8	313	9	4	18	10	10	6	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	12	12	12	12	12	12	10	10	10	10	10	10
Mvmt Flow	3	678	35	9	340	10	4	20	11	11	7	0

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	350	0	0	713	0	0	1068	1069	696	1080	1083	345
Stage 1	-	-	-	-	-	-	702	702	-	363	363	-
Stage 2	-	-	-	-	-	-	366	367	-	717	720	-
Critical Hdwy	4.22	-	-	4.22	-	-	7.2	6.6	6.3	7.2	6.6	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Follow-up Hdwy	2.308	-	-	2.308	-	-	3.59	4.09	3.39	3.59	4.09	3.39
Pot Cap-1 Maneuver	1155	-	-	843	-	-	193	214	428	189	210	680
Stage 1	-	-	-	-	-	-	416	429	-	640	611	-
Stage 2	-	-	-	-	-	-	637	608	-	408	420	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1155	-	-	843	-	-	186	210	428	169	206	680
Mov Cap-2 Maneuver	-	-	-	-	-	-	186	210	-	169	206	-
Stage 1	-	-	-	-	-	-	414	427	-	637	603	-
Stage 2	-	-	-	-	-	-	622	600	-	378	418	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0	0.2	22.1	27
HCM LOS			C	D

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	245	1155	-	-	843	-	-	181
HCM Lane V/C Ratio	0.142	0.003	-	-	0.01	-	-	0.096
HCM Control Delay (s)	22.1	8.1	0	-	9.3	0	-	27
HCM Lane LOS	C	A	A	-	A	A	-	D
HCM 95th %tile Q(veh)	0.5	0	-	-	0	-	-	0.3



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	15	395	211	81	301	6	262	44	89	14	39	20
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1696	1696	1696	1696	1696	1900	1727	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	16	429	229	88	327	7	285	48	97	15	42	22
Adj No. of Lanes	1	1	1	1	1	0	1	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	12	12	12	12	12	12	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	24	565	481	311	846	18	325	174	352	56	72	31
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.01	0.33	0.33	0.19	0.51	0.51	0.20	0.34	0.34	0.10	0.10	0.10
Ln Grp Delay, s/veh	72.8	36.0	27.1	31.5	0.0	14.7	53.0	0.0	21.9	41.0	0.0	0.0
Ln Grp LOS	E	D	C	C		B	D		C	D		
Approach Vol, veh/h		674			422			430			79	
Approach Delay, s/veh		33.9			18.2			42.5			41.0	
Approach LOS		C			B			D			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2	4	3	6	5	7	8
Case No		4.0	3.0	2.0	8.4	2.0	2.0	4.0
Phs Duration (G+Y+Rc), s		34.7	34.0	21.3	12.9	21.8	5.3	50.0
Change Period (Y+Rc), s		4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s		41.0	30.0	7.0	16.0	21.0	4.0	33.0
Max Allow Headway (MAH), s		4.2	4.1	4.0	4.2	4.2	4.1	4.0
Max Q Clear (g_c+I1), s		8.1	22.3	6.2	8.8	17.1	2.9	12.8
Green Ext Time (g_e), s		1.6	1.7	0.0	0.1	0.6	0.0	1.4
Prob of Phs Call (p_c)		1.00	1.00	0.89	1.00	1.00	0.33	1.00
Prob of Max Out (p_x)		0.00	0.00	1.00	0.04	1.00	1.00	0.00

Left-Turn Movement Data								
Assigned Mvmt				3	1	5	7	
Mvmt Sat Flow, veh/h				1616	89	1645	1616	

Through Movement Data								
Assigned Mvmt		2	4		6			8
Mvmt Sat Flow, veh/h		511	1696		729			1655

Right-Turn Movement Data								
Assigned Mvmt		12	14		16			18
Mvmt Sat Flow, veh/h		1033	1442		316			35

Left Lane Group Data								
Assigned Mvmt	0	0	0	3	1	5	7	0
Lane Assignment				(Prot)	L+T+R	(Prot)	(Prot)	
Lanes in Grp	0	0	0	1	1	1	1	0

Grp Vol (v), veh/h	0	0	0	88	79	285	16	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1616	1134	1645	1616	0
Q Serve Time (g_s), s	0.0	0.0	0.0	4.2	0.7	15.1	0.9	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	4.2	6.8	15.1	0.9	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	1263	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	8.9	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.00	0.00	1.00	0.19	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	0	0	311	160	325	24	0
V/C Ratio (X)	0.00	0.00	0.00	0.28	0.49	0.88	0.68	0.00
Avail Cap (c_a), veh/h	0	0	0	311	279	384	72	0
Upstream Filter (I)	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	31.0	38.7	35.1	44.1	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.5	2.4	17.9	28.6	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	31.5	41.0	53.0	72.8	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	1.9	1.9	6.9	0.4	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.1	1.6	0.2	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	1.9	2.0	8.5	0.6	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.53	0.03	1.41	0.20	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	6	0	0	8
Lane Assignment			T					
Lanes in Grp	0	0	1	0	0	0	0	0
Grp Vol (v), veh/h	0	0	429	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	1696	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	20.3	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	20.3	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	565	0	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	565	0	0	0	0	0
Upstream Filter (I)	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	26.8	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	9.2	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	36.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	9.4	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	10.9	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	14	0	16	0	0	18
Lane Assignment		T+R	R					T+R
Lanes in Grp	0	1	1	0	0	0	0	1
Grp Vol (v), veh/h	0	145	229	0	0	0	0	334
Grp Sat Flow (s), veh/h/ln	0	1545	1442	0	0	0	0	1690
Q Serve Time (g_s), s	0.0	6.1	11.3	0.0	0.0	0.0	0.0	10.8
Cycle Q Clear Time (g_c), s	0.0	6.1	11.3	0.0	0.0	0.0	0.0	10.8
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.67	1.00	0.00	0.28	0.00	0.00	0.02
Lane Grp Cap (c), veh/h	0	527	481	0	0	0	0	864
V/C Ratio (X)	0.00	0.28	0.48	0.00	0.00	0.00	0.00	0.39
Avail Cap (c_a), veh/h	0	704	481	0	0	0	0	864
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	21.6	23.8	0.0	0.0	0.0	0.0	13.4
Incr Delay (d2), s/veh	0.0	0.3	3.4	0.0	0.0	0.0	0.0	1.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	21.9	27.1	0.0	0.0	0.0	0.0	14.7
1st-Term Q (Q1), veh/ln	0.0	2.6	4.5	0.0	0.0	0.0	0.0	5.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.3
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	2.7	5.0	0.0	0.0	0.0	0.0	5.3
%ile Storage Ratio (RQ%)	0.00	0.01	1.72	0.00	0.00	0.00	0.00	0.08
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	32.4
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	15	395	211	81	301	6	262	44	89	14	39	20
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1696	1696	1696	1696	1696	1900	1727	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	16	429	229	88	327	7	285	48	97	15	42	22
Adj No. of Lanes	1	1	1	1	1	0	1	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	12	12	12	12	12	12	10	10	10	10	10	10
Cap, veh/h	24	565	481	311	846	18	325	174	352	56	72	31
Arrive On Green	0.01	0.33	0.33	0.19	0.51	0.51	0.20	0.34	0.34	0.10	0.10	0.10
Sat Flow, veh/h	1616	1696	1442	1616	1655	35	1645	511	1033	89	729	316
Grp Volume(v), veh/h	16	429	229	88	0	334	285	0	145	79	0	0
Grp Sat Flow(s),veh/h/ln	1616	1696	1442	1616	0	1690	1645	0	1545	1134	0	0
Q Serve(g_s), s	0.9	20.3	11.3	4.2	0.0	10.8	15.1	0.0	6.1	0.7	0.0	0.0
Cycle Q Clear(g_c), s	0.9	20.3	11.3	4.2	0.0	10.8	15.1	0.0	6.1	6.8	0.0	0.0
Prop In Lane	1.00		1.00	1.00		0.02	1.00		0.67	0.19		0.28
Lane Grp Cap(c), veh/h	24	565	481	311	0	864	325	0	527	160	0	0
V/C Ratio(X)	0.68	0.76	0.48	0.28	0.00	0.39	0.88	0.00	0.28	0.49	0.00	0.00
Avail Cap(c_a), veh/h	72	565	481	311	0	864	384	0	704	279	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	44.1	26.8	23.8	31.0	0.0	13.4	35.1	0.0	21.6	38.7	0.0	0.0
Incr Delay (d2), s/veh	28.6	9.2	3.4	0.5	0.0	1.3	17.9	0.0	0.3	2.4	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.6	10.9	5.0	1.9	0.0	5.3	8.5	0.0	2.7	2.0	0.0	0.0
LnGrp Delay(d),s/veh	72.8	36.0	27.1	31.5	0.0	14.7	53.0	0.0	21.9	41.0	0.0	0.0
LnGrp LOS	E	D	C	C		B	D		C	D		
Approach Vol, veh/h		674			422			430			79	
Approach Delay, s/veh		33.9			18.2			42.5			41.0	
Approach LOS		C			B			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s		34.7	21.3	34.0	21.8	12.9	5.3	50.0
Change Period (Y+Rc), s		4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s		41.0	7.0	30.0	21.0	16.0	4.0	33.0
Max Q Clear Time (g_c+I1), s		8.1	6.2	22.3	17.1	8.8	2.9	12.8
Green Ext Time (p_c), s		1.6	0.0	1.7	0.6	0.1	0.0	1.4

Intersection Summary	
HCM 2010 Ctrl Delay	32.4
HCM 2010 LOS	C

Intersection	
Int Delay, s/veh	79.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	83	332	36	46	334	12	22	64	16	10	161	139
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	136	-	-	135	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	30	30	30	30	30	30	14	14	14	14	14	14
Mvmt Flow	90	361	39	50	363	13	24	70	17	11	175	151

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	376	0	0	400	0	0	1194	1037	380	1074	1050	370
Stage 1	-	-	-	-	-	-	561	561	-	470	470	-
Stage 2	-	-	-	-	-	-	633	476	-	604	580	-
Critical Hdwy	4.4	-	-	4.4	-	-	7.24	6.64	6.34	7.24	6.64	6.34
Critical Hdwy Stg 1	-	-	-	-	-	-	6.24	5.64	-	6.24	5.64	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.24	5.64	-	6.24	5.64	-
Follow-up Hdwy	2.47	-	-	2.47	-	-	3.626	4.126	3.426	3.626	4.126	3.426
Pot Cap-1 Maneuver	1044	-	-	1022	-	-	155	220	641	187	216	650
Stage 1	-	-	-	-	-	-	491	491	-	552	540	-
Stage 2	-	-	-	-	-	-	448	537	-	465	481	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1044	-	-	1022	-	-	~ 20	191	641	118	188	650
Mov Cap-2 Maneuver	-	-	-	-	-	-	~ 20	191	-	118	188	-
Stage 1	-	-	-	-	-	-	449	449	-	504	514	-
Stage 2	-	-	-	-	-	-	216	511	-	349	440	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	1.6	1	$ 420	181
HCM LOS			F	F

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	70	1044	-	-	1022	-	-	268
HCM Lane V/C Ratio	1.584	0.086	-	-	0.049	-	-	1.257
HCM Control Delay (s)	$ 420	8.8	-	-	8.7	-	-	181
HCM Lane LOS	F	A	-	-	A	-	-	F
HCM 95th %tile Q(veh)	9.5	0.3	-	-	0.2	-	-	16.3

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Intersection	
Int Delay, s/veh	4.7

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	156	126	57	301	113	111
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	30	30	30	30	30	30
Mvmt Flow	170	137	62	327	123	121

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	307	0	689	238
Stage 1	-	-	-	-	238	-
Stage 2	-	-	-	-	451	-
Critical Hdwy	-	-	4.4	-	6.7	6.5
Critical Hdwy Stg 1	-	-	-	-	5.7	-
Critical Hdwy Stg 2	-	-	-	-	5.7	-
Follow-up Hdwy	-	-	2.47	-	3.77	3.57
Pot Cap-1 Maneuver	-	-	1111	-	372	737
Stage 1	-	-	-	-	740	-
Stage 2	-	-	-	-	587	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1111	-	347	737
Mov Cap-2 Maneuver	-	-	-	-	347	-
Stage 1	-	-	-	-	740	-
Stage 2	-	-	-	-	547	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.3	15.9
HCM LOS			C

Minor Lane/Major Mvmt	NBLn1	NBLn2	EBT	EBR	WBL	WBT
Capacity (veh/h)	347	737	-	-	1111	-
HCM Lane V/C Ratio	0.354	0.164	-	-	0.056	-
HCM Control Delay (s)	21	10.8	-	-	8.4	0
HCM Lane LOS	C	B	-	-	A	A
HCM 95th %tile Q(veh)	1.6	0.6	-	-	0.2	-

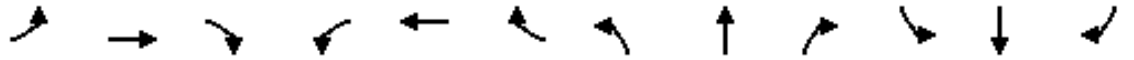
Intersection	
Int Delay, s/veh	2.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	14	4	30	31	8	1	25	291	8	1	319	4
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	220	-	-	238	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	20	20	20	20	20	20
Mvmt Flow	15	4	33	34	9	1	27	316	9	1	347	4

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	731	730	349	745	728	321	351	0	0	325	0	0
Stage 1	351	351	-	375	375	-	-	-	-	-	-	-
Stage 2	380	379	-	370	353	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.2	6.6	6.3	4.3	-	-	4.3	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.59	4.09	3.39	2.38	-	-	2.38	-	-
Pot Cap-1 Maneuver	327	340	677	320	341	702	1114	-	-	1140	-	-
Stage 1	649	618	-	630	603	-	-	-	-	-	-	-
Stage 2	626	601	-	634	617	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	314	331	677	296	332	702	1114	-	-	1140	-	-
Mov Cap-2 Maneuver	314	331	-	296	332	-	-	-	-	-	-	-
Stage 1	633	617	-	615	588	-	-	-	-	-	-	-
Stage 2	601	586	-	599	616	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	13.5	18.7	0.6	0
HCM LOS	B	C		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1114	-	-	475	307	1140	-	-
HCM Lane V/C Ratio	0.024	-	-	0.11	0.142	0.001	-	-
HCM Control Delay (s)	8.3	-	-	13.5	18.7	8.2	-	-
HCM Lane LOS	A	-	-	B	C	A	-	-
HCM 95th %tile Q(veh)	0.1	-	-	0.4	0.5	0	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	9	150	224	70	106	139	77	552	41	67	494	15
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1727	1900	1900	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	10	163	243	76	115	151	84	600	45	73	537	16
Adj No. of Lanes	0	1	0	0	1	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	46	209	300	113	156	174	571	701	52	523	642	19
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.32	0.32	0.32	0.32	0.32	0.32	0.35	0.23	0.23	0.32	0.20	0.20
Ln Grp Delay, s/veh	31.5	0.0	0.0	33.0	0.0	0.0	20.3	54.9	54.7	22.0	56.6	56.1
Ln Grp LOS	C			C			C	D	D	C	E	E
Approach Vol, veh/h		416			342			729			626	
Approach Delay, s/veh		31.5			33.0			50.8			52.3	
Approach LOS		C			C			D			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1		4	6	5		8
Case No	4.0	2.0		8.0	4.0	2.0		8.0
Phs Duration (G+Y+Rc), s	24.4	32.6		33.0	21.7	35.2		33.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green (Gmax), s	27.0	13.0		38.0	26.0	14.0		38.0
Max Allow Headway (MAH), s	4.0	4.1		4.3	4.0	4.1		4.3
Max Q Clear (g_c+I1), s	18.8	4.9		23.7	16.3	5.2		26.4
Green Ext Time (g_e), s	1.6	0.3		2.8	1.4	0.3		2.6
Prob of Phs Call (p_c)	1.00	0.84		1.00	1.00	0.88		1.00
Prob of Max Out (p_x)	0.26	0.04		0.09	0.12	0.02		0.17

Left-Turn Movement Data								
Assigned Mvmt		1		7		5		3
Mvmt Sat Flow, veh/h		1645		15		1645		197

Through Movement Data								
Assigned Mvmt	2			4	6			8
Mvmt Sat Flow, veh/h	3095			647	3254			484

Right-Turn Movement Data								
Assigned Mvmt	12			14	16			18
Mvmt Sat Flow, veh/h	232			930	97			539

Left Lane Group Data								
Assigned Mvmt	0	1	0	7	0	5	0	3
Lane Assignment		(Prot)		L+T+R		(Prot)		L+T+R
Lanes in Grp	0	1	0	1	0	1	0	1

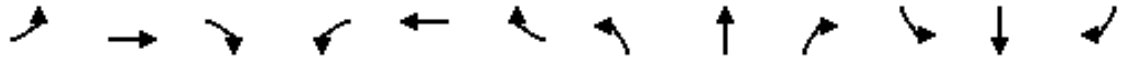
Grp Vol (v), veh/h	0	73	0	416	0	84	0	342
Grp Sat Flow (s), veh/h/ln	0	1645	0	1592	0	1645	0	1220
Q Serve Time (g_s), s	0.0	2.9	0.0	0.0	0.0	3.2	0.0	2.8
Cycle Q Clear Time (g_c), s	0.0	2.9	0.0	21.7	0.0	3.2	0.0	24.4
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	1131	0	0	0	995
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	1704	0	0	0	1013
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	29.0	0.0	0.0	0.0	29.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	4.6	0.0	0.0	0.0	7.4
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
Time to First Blk (g_f), s	0.0	0.0	0.0	18.3	0.0	0.0	0.0	6.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	18.3	0.0	0.0	0.0	6.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	0.02	0.00	1.00	0.00	0.22
Lane Grp Cap (c), veh/h	0	523	0	554	0	571	0	442
V/C Ratio (X)	0.00	0.14	0.00	0.75	0.00	0.15	0.00	0.77
Avail Cap (c_a), veh/h	0	523	0	708	0	571	0	577
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	21.9	0.0	28.1	0.0	20.2	0.0	28.2
Incr Delay (d2), s/veh	0.0	0.1	0.0	3.4	0.0	0.1	0.0	4.8
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	22.0	0.0	31.5	0.0	20.3	0.0	33.0
1st-Term Q (Q1), veh/ln	0.0	1.3	0.0	9.5	0.0	1.4	0.0	8.1
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.6
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.3	0.0	10.0	0.0	1.4	0.0	8.7
%ile Storage Ratio (RQ%)	0.00	0.15	0.00	0.01	0.00	0.21	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	6	0	0	8
Lane Assignment	T				T			
Lanes in Grp	1	0	0	0	1	0	0	0
Grp Vol (v), veh/h	318	0	0	0	271	0	0	0
Grp Sat Flow (s), veh/h/ln	1641	0	0	0	1641	0	0	0
Q Serve Time (g_s), s	16.7	0.0	0.0	0.0	14.3	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	16.7	0.0	0.0	0.0	14.3	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	371	0	0	0	324	0	0	0
V/C Ratio (X)	0.86	0.00	0.00	0.00	0.84	0.00	0.00	0.00
Avail Cap (c_a), veh/h	492	0	0	0	474	0	0	0
Upstream Filter (I)	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	33.4	0.0	0.0	0.0	34.7	0.0	0.0	0.0
Incr Delay (d2), s/veh	21.5	0.0	0.0	0.0	21.9	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	54.9	0.0	0.0	0.0	56.6	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	7.6	0.0	0.0	0.0	6.5	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	2.2	0.0	0.0	0.0	2.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	9.8	0.0	0.0	0.0	8.4	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.08	0.00	0.00	0.00	0.21	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	0	14	16	0	0	18
Lane Assignment	T+R				T+R			
Lanes in Grp	1	0	0	0	1	0	0	0
Grp Vol (v), veh/h	327	0	0	0	282	0	0	0
Grp Sat Flow (s), veh/h/ln	1686	0	0	0	1710	0	0	0
Q Serve Time (g_s), s	16.8	0.0	0.0	0.0	14.3	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	16.8	0.0	0.0	0.0	14.3	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.14	0.00	0.00	0.58	0.06	0.00	0.00	0.44
Lane Grp Cap (c), veh/h	382	0	0	0	337	0	0	0
V/C Ratio (X)	0.86	0.00	0.00	0.00	0.84	0.00	0.00	0.00
Avail Cap (c_a), veh/h	506	0	0	0	494	0	0	0
Upstream Filter (I)	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	33.4	0.0	0.0	0.0	34.7	0.0	0.0	0.0
Incr Delay (d2), s/veh	21.3	0.0	0.0	0.0	21.3	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	54.7	0.0	0.0	0.0	56.1	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	7.8	0.0	0.0	0.0	6.7	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	2.3	0.0	0.0	0.0	2.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	10.1	0.0	0.0	0.0	8.7	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.09	0.00	0.00	0.00	0.21	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	44.6
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	9	150	224	70	106	139	77	552	41	67	494	15
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1727	1900	1900	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	10	163	243	76	115	151	84	600	45	73	537	16
Adj No. of Lanes	0	1	0	0	1	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	46	209	300	113	156	174	571	701	52	523	642	19
Arrive On Green	0.32	0.32	0.32	0.32	0.32	0.32	0.35	0.23	0.23	0.32	0.20	0.20
Sat Flow, veh/h	15	647	930	197	484	539	1645	3095	232	1645	3254	97
Grp Volume(v), veh/h	416	0	0	342	0	0	84	318	327	73	271	282
Grp Sat Flow(s),veh/h/ln	1592	0	0	1220	0	0	1645	1641	1686	1645	1641	1710
Q Serve(g_s), s	0.0	0.0	0.0	2.8	0.0	0.0	3.2	16.7	16.8	2.9	14.3	14.3
Cycle Q Clear(g_c), s	21.7	0.0	0.0	24.4	0.0	0.0	3.2	16.7	16.8	2.9	14.3	14.3
Prop In Lane	0.02		0.58	0.22		0.44	1.00		0.14	1.00		0.06
Lane Grp Cap(c), veh/h	554	0	0	442	0	0	571	371	382	523	324	337
V/C Ratio(X)	0.75	0.00	0.00	0.77	0.00	0.00	0.15	0.86	0.86	0.14	0.84	0.84
Avail Cap(c_a), veh/h	708	0	0	577	0	0	571	492	506	523	474	494
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	28.1	0.0	0.0	28.2	0.0	0.0	20.2	33.4	33.4	21.9	34.7	34.7
Incr Delay (d2), s/veh	3.4	0.0	0.0	4.8	0.0	0.0	0.1	21.5	21.3	0.1	21.9	21.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.0	0.0	8.7	0.0	0.0	1.4	9.8	10.1	1.3	8.4	8.7
LnGrp Delay(d),s/veh	31.5	0.0	0.0	33.0	0.0	0.0	20.3	54.9	54.7	22.0	56.6	56.1
LnGrp LOS	C			C			C	D	D	C	E	E
Approach Vol, veh/h		416			342			729			626	
Approach Delay, s/veh		31.5			33.0			50.8			52.3	
Approach LOS		C			C			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	32.6	24.4		33.0	35.2	21.7		33.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	28.6	20.4		29.0	31.2	17.7		29.0
Max Q Clear Time (g_c+I1), s	4.9	18.8		23.7	5.2	16.3		26.4
Green Ext Time (p_c), s	0.3	1.6		2.8	0.3	1.4		2.6

Intersection Summary		
HCM 2010 Ctrl Delay	44.6	
HCM 2010 LOS	D	

Intersection	
Int Delay, s/veh	3.1

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	3	170	99	407	543	14
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	20	331	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	3	185	108	442	590	15

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1256	598	605	0	-	0
Stage 1	598	-	-	-	-	-
Stage 2	658	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	182	488	935	-	-	-
Stage 1	534	-	-	-	-	-
Stage 2	500	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	161	488	935	-	-	-
Mov Cap-2 Maneuver	161	-	-	-	-	-
Stage 1	534	-	-	-	-	-
Stage 2	442	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	17	1.8	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	935	-	161	488	-	-
HCM Lane V/C Ratio	0.115	-	0.02	0.379	-	-
HCM Control Delay (s)	9.3	-	27.8	16.8	-	-
HCM Lane LOS	A	-	D	C	-	-
HCM 95th %tile Q(veh)	0.4	-	0.1	1.7	-	-

Intersection	
Int Delay, s/veh	5.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	0	61	132	47	103	0	161	0	48	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	0	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	30	30	30	30	30	30	30	30	30	30	30	30
Mvmt Flow	0	66	143	51	112	0	175	0	52	0	0	0

Major/Minor	Major1			Major2			Minor1		
Conflicting Flow All	112	0	0	210	0	0	352	352	138
Stage 1	-	-	-	-	-	-	138	138	-
Stage 2	-	-	-	-	-	-	214	214	-
Critical Hdwy	4.4	-	-	4.4	-	-	6.7	6.8	6.5
Critical Hdwy Stg 1	-	-	-	-	-	-	5.7	5.8	-
Critical Hdwy Stg 2	-	-	-	-	-	-	5.7	5.8	-
Follow-up Hdwy	2.47	-	-	2.47	-	-	3.77	4.27	3.57
Pot Cap-1 Maneuver	1320	-	-	1211	-	-	593	530	841
Stage 1	-	-	-	-	-	-	824	732	-
Stage 2	-	-	-	-	-	-	760	676	-
Platoon blocked, %		-	-		-	-			
Mov Cap-1 Maneuver	1320	-	-	1211	-	-	566	0	841
Mov Cap-2 Maneuver	-	-	-	-	-	-	566	0	-
Stage 1	-	-	-	-	-	-	824	0	-
Stage 2	-	-	-	-	-	-	726	0	-

Approach	EB	WB	NB
HCM Control Delay, s	0	2.5	13.1
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	NBLn2	EBL	EBT	EBR	WBL	WBT	WBR
Capacity (veh/h)	566	841	1320	-	-	1211	-	-
HCM Lane V/C Ratio	0.309	0.062	-	-	-	0.042	-	-
HCM Control Delay (s)	14.2	9.6	0	-	-	8.1	0	-
HCM Lane LOS	B	A	A	-	-	A	A	-
HCM 95th %tile Q(veh)	1.3	0.2	0	-	-	0.1	-	-

PM 2035 NOG+O&G Projection

Intersection	
Int Delay, s/veh	6.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	42	96	7	40	52	4	13	276	269	16	56	25
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	46	104	8	43	57	4	14	300	292	17	61	27

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	614	730	74	639	597	446	88	0	0	592	0	0
Stage 1	109	109	-	474	474	-	-	-	-	-	-	-
Stage 2	505	621	-	165	123	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.2	6.6	6.3	4.2	-	-	4.2	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.59	4.09	3.39	2.29	-	-	2.29	-	-
Pot Cap-1 Maneuver	393	340	966	378	406	596	1459	-	-	946	-	-
Stage 1	877	790	-	556	545	-	-	-	-	-	-	-
Stage 2	535	467	-	819	779	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	338	329	966	276	392	596	1459	-	-	946	-	-
Mov Cap-2 Maneuver	338	329	-	276	392	-	-	-	-	-	-	-
Stage 1	864	775	-	548	537	-	-	-	-	-	-	-
Stage 2	468	460	-	690	764	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	24.1	20.3	0.2	1.5
HCM LOS	C	C		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1459	-	-	343	338	946	-	-
HCM Lane V/C Ratio	0.01	-	-	0.46	0.309	0.018	-	-
HCM Control Delay (s)	7.5	0	-	24.1	20.3	8.9	0	-
HCM Lane LOS	A	A	-	C	C	A	A	-
HCM 95th %tile Q(veh)	0	-	-	2.3	1.3	0.1	-	-

Intersection	
Intersection Delay, s/veh	10.1
Intersection LOS	B

Movement	EBU	EBL	EBT	WBU	WBT	WBR	SBU	SBL	SBR
Vol, veh/h	0	126	152	0	128	145	0	99	117
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	137	165	0	139	158	0	108	127
Number of Lanes	0	1	1	0	1	1	0	1	1

Approach	EB	WB	SB
Opposing Approach	WB	EB	
Opposing Lanes	2	2	0
Conflicting Approach Left	SB		WB
Conflicting Lanes Left	2	0	2
Conflicting Approach Right		SB	EB
Conflicting Lanes Right	0	2	2
HCM Control Delay	10.6	9.6	10.2
HCM LOS	B	A	B

Lane	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1	SBLn2
Vol Left, %	100%	0%	0%	0%	100%	0%
Vol Thru, %	0%	100%	100%	0%	0%	0%
Vol Right, %	0%	0%	0%	100%	0%	100%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	126	152	128	145	99	117
LT Vol	126	0	0	0	99	0
Through Vol	0	152	128	0	0	0
RT Vol	0	0	0	145	0	117
Lane Flow Rate	137	165	139	158	108	127
Geometry Grp	7	7	7	7	7	7
Degree of Util (X)	0.234	0.259	0.22	0.218	0.198	0.191
Departure Headway (Hd)	6.15	5.645	5.691	4.984	6.61	5.401
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	579	629	625	712	538	656
Service Time	3.942	3.437	3.481	2.774	4.408	3.198
HCM Lane V/C Ratio	0.237	0.262	0.222	0.222	0.201	0.194
HCM Control Delay	10.8	10.4	10.1	9.2	11.1	9.5
HCM Lane LOS	B	B	B	A	B	A
HCM 95th-tile Q	0.9	1	0.8	0.8	0.7	0.7

Intersection	
Intersection Delay, s/veh	7.7
Intersection LOS	A

Movement	EBU	EBL	EBR	NBU	NBL	NBT	SBU	SBT	SBR	SEU	SEL	SER
Vol, veh/h	0	0	0	0	0	0	0	54	22	0	0	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	0	0	0	0	0	0	59	24	0	0	0
Number of Lanes	0	0	0	0	1	0	0	0	1	0	0	1

Approach	NB	SB	SE
Opposing Approach	SB	NB	
Opposing Lanes	2	1	0
Conflicting Approach Left	SE		SB
Conflicting Lanes Left	1	0	2
Conflicting Approach Right		SE	NB
Conflicting Lanes Right	0	1	1
HCM Control Delay	0	7.7	0
HCM LOS	-	A	-

Lane	NBLn1	SELn1	SBLn1	SBLn2
Vol Left, %	0%	0%	0%	0%
Vol Thru, %	100%	100%	71%	100%
Vol Right, %	0%	0%	29%	0%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	0	0	76	0
LT Vol	0	0	0	0
Through Vol	0	0	54	0
RT Vol	0	0	22	0
Lane Flow Rate	0	0	83	0
Geometry Grp	5	2	7	7
Degree of Util (X)	0	0	0.103	0
Departure Headway (Hd)	4.314	4.214	4.467	4.67
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	0	0	807	0
Service Time	2.373	2.273	2.167	2.37
HCM Lane V/C Ratio	0	0	0.103	0
HCM Control Delay	7.4	7.3	7.7	7.4
HCM Lane LOS	N	N	A	N
HCM 95th-tile Q	0	0	0.3	0

Intersection	
Int Delay, s/veh	5.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	162	407	3	9	9	43	0	0	0	20	47	59
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	116	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	29	29	29	29	29	29	10	10	10	10	10	10
Mvmt Flow	176	442	3	10	10	47	0	0	0	22	51	64

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	57	0	0	446	0	0	906	872	444	849	851	33
Stage 1	-	-	-	-	-	-	796	796	-	53	53	-
Stage 2	-	-	-	-	-	-	110	76	-	796	798	-
Critical Hdwy	4.39	-	-	4.39	-	-	7.2	6.6	6.3	7.2	6.6	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Follow-up Hdwy	2.461	-	-	2.461	-	-	3.59	4.09	3.39	3.59	4.09	3.39
Pot Cap-1 Maneuver	1391	-	-	985	-	-	249	280	597	272	289	1018
Stage 1	-	-	-	-	-	-	369	388	-	940	835	-
Stage 2	-	-	-	-	-	-	876	816	-	369	387	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1391	-	-	985	-	-	177	242	597	244	250	1018
Mov Cap-2 Maneuver	-	-	-	-	-	-	177	242	-	244	250	-
Stage 1	-	-	-	-	-	-	322	339	-	821	826	-
Stage 2	-	-	-	-	-	-	762	807	-	322	338	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	2.3	1.3	0	19.5
HCM LOS			A	C

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	-	1391	-	-	985	-	-	384
HCM Lane V/C Ratio	-	0.127	-	-	0.01	-	-	0.357
HCM Control Delay (s)	0	8	-	-	8.7	0	-	19.5
HCM Lane LOS	A	A	-	-	A	A	-	C
HCM 95th %tile Q(veh)	-	0.4	-	-	0	-	-	1.6

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	0	5	0	0	67	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	29	29	10	10	10	10
Mvmt Flow	0	5	0	0	73	0

Major/Minor	Major1		Minor2	
Conflicting Flow All	0	0	5	0
Stage 1	-	-	0	-
Stage 2	-	-	5	-
Critical Hdwy	-	-	7.2	-
Critical Hdwy Stg 1	-	-	-	-
Critical Hdwy Stg 2	-	-	6.2	-
Follow-up Hdwy	-	-	3.59	-
Pot Cap-1 Maneuver	-	-	995	-
Stage 1	-	-	-	-
Stage 2	-	-	997	-
Platoon blocked, %		-		
Mov Cap-1 Maneuver	-	-	995	-
Mov Cap-2 Maneuver	-	-	995	-
Stage 1	-	-	-	-
Stage 2	-	-	997	-

Approach	EB	SB
HCM Control Delay, s	0	
HCM LOS		-

Minor Lane/Major Mvmt	EBL	EBT	SBLn1
Capacity (veh/h)	-	-	-
HCM Lane V/C Ratio	-	-	-
HCM Control Delay (s)	0	-	-
HCM Lane LOS	A	-	-
HCM 95th %tile Q(veh)	-	-	-

Intersection	
Int Delay, s/veh	5.5

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	360	360	109	82	24	84
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	500	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	29	29	29	29	10	10
Mvmt Flow	391	391	118	89	26	91

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	208	0	-	0	1337	163
Stage 1	-	-	-	-	163	-
Stage 2	-	-	-	-	1174	-
Critical Hdwy	4.39	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.461	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1218	-	-	-	162	861
Stage 1	-	-	-	-	847	-
Stage 2	-	-	-	-	283	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1218	-	-	-	110	861
Mov Cap-2 Maneuver	-	-	-	-	110	-
Stage 1	-	-	-	-	847	-
Stage 2	-	-	-	-	192	-

Approach	EB	WB	SB
HCM Control Delay, s	4.7	0	20.9
HCM LOS			C

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1218	-	-	-	342
HCM Lane V/C Ratio	0.321	-	-	-	0.343
HCM Control Delay (s)	9.3	-	-	-	20.9
HCM Lane LOS	A	-	-	-	C
HCM 95th %tile Q(veh)	1.4	-	-	-	1.5

Intersection	
Int Delay, s/veh	0.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NWL	NWR
Vol, veh/h	0	451	56	2	91	0	14	11	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	None	-	-
Storage Length	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	0	-	0	-
Grade, %	-	0	-	-	0	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	29	29	29	29	29	29	28	28	10	10
Mvmt Flow	0	490	61	2	99	0	15	12	0	0

Major/Minor	Major1			Major2			Minor2			
Conflicting Flow All	99	0	0	551	0	0	624	99		
Stage 1	-	-	-	-	-	-	103	-		
Stage 2	-	-	-	-	-	-	521	-		
Critical Hdwy	4.39	-	-	4.39	-	-	6.68	6.48		
Critical Hdwy Stg 1	-	-	-	-	-	-	5.68	-		
Critical Hdwy Stg 2	-	-	-	-	-	-	5.68	-		
Follow-up Hdwy	2.461	-	-	2.461	-	-	3.752	3.552		
Pot Cap-1 Maneuver	1341	-	-	897	-	-	410	890		
Stage 1	-	-	-	-	-	-	860	-		
Stage 2	-	-	-	-	-	-	547	-		
Platoon blocked, %		-	-		-	-				
Mov Cap-1 Maneuver	1341	-	-	897	-	-	409	890		
Mov Cap-2 Maneuver	-	-	-	-	-	-	409	-		
Stage 1	-	-	-	-	-	-	858	-		
Stage 2	-	-	-	-	-	-	547	-		

Approach	EB	WB	SB
HCM Control Delay, s	0	0.2	9.2
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	1341	-	-	897	-	-	890
HCM Lane V/C Ratio	-	-	-	0.002	-	-	0.031
HCM Control Delay (s)	0	-	-	9	0	-	9.2
HCM Lane LOS	A	-	-	A	A	-	A
HCM 95th %tile Q(veh)	0	-	-	0	-	-	0.1

Intersection	
Int Delay, s/veh	0.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBR	SEL	SER
Vol, veh/h	9	454	0	0	68	31	34	7	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	None	-	-
Storage Length	-	-	-	-	-	0	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	0	-	0	-
Grade, %	-	0	-	-	0	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	29	29	29	29	29	29	28	28	10	10
Mvmt Flow	10	493	0	0	74	34	37	8	0	0

Major/Minor	Major1			Major2			Minor1			
Conflicting Flow All	74	0	0	493	0	0	587	493		
Stage 1	-	-	-	-	-	-	513	-		
Stage 2	-	-	-	-	-	-	74	-		
Critical Hdwy	4.39	-	-	4.39	-	-	6.68	6.48		
Critical Hdwy Stg 1	-	-	-	-	-	-	5.68	-		
Critical Hdwy Stg 2	-	-	-	-	-	-	5.68	-		
Follow-up Hdwy	2.461	-	-	2.461	-	-	3.752	3.552		
Pot Cap-1 Maneuver	1371	-	-	945	-	-	432	527		
Stage 1	-	-	-	-	-	-	551	-		
Stage 2	-	-	-	-	-	-	887	-		
Platoon blocked, %		-	-		-	-				
Mov Cap-1 Maneuver	1371	-	-	945	-	-	428	527		
Mov Cap-2 Maneuver	-	-	-	-	-	-	428	-		
Stage 1	-	-	-	-	-	-	545	-		
Stage 2	-	-	-	-	-	-	887	-		

Approach	EB	WB	NB
HCM Control Delay, s	0.1	0	12.5
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR
Capacity (veh/h)	527	1371	-	-	945	-	-
HCM Lane V/C Ratio	0.085	0.007	-	-	-	-	-
HCM Control Delay (s)	12.5	7.6	0	-	0	-	-
HCM Lane LOS	B	A	A	-	A	-	-
HCM 95th %tile Q(veh)	0.3	0	-	-	0	-	-

Intersection	
Int Delay, s/veh	3.3

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	3	174	102	418	556	14
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	0	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	19	19	19	19
Mvmt Flow	3	189	111	454	604	15

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1288	612	620	0	-	0
Stage 1	612	-	-	-	-	-
Stage 2	676	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.29	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.371	-	-	-
Pot Cap-1 Maneuver	174	479	883	-	-	-
Stage 1	526	-	-	-	-	-
Stage 2	491	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	152	479	883	-	-	-
Mov Cap-2 Maneuver	152	-	-	-	-	-
Stage 1	526	-	-	-	-	-
Stage 2	429	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	18.2	1.9	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	883	-	462	-	-
HCM Lane V/C Ratio	0.126	-	0.416	-	-
HCM Control Delay (s)	9.7	-	18.2	-	-
HCM Lane LOS	A	-	C	-	-
HCM 95th %tile Q(veh)	0.4	-	2	-	-

Intersection	
Intersection Delay, s/veh	75.6
Intersection LOS	F

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	73	879	154	0	156	219	77	0	57	409	256
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	79	955	167	0	170	238	84	0	62	445	278
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	1	1	2
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	2	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	2	1
HCM Control Delay	77.9	78.1	77.8
HCM LOS	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1	SBLn2
Vol Left, %	8%	7%	35%	44%	0%
Vol Thru, %	57%	79%	48%	56%	0%
Vol Right, %	35%	14%	17%	0%	100%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	722	1106	452	305	21
LT Vol	57	73	156	135	0
Through Vol	409	879	219	170	0
RT Vol	256	154	77	0	21
Lane Flow Rate	785	1202	491	332	23
Geometry Grp	5	2	2	7	7
Degree of Util (X)	1	1	1	0.926	0.058
Departure Headway (Hd)	9.484	9.511	9.548	10.057	9.136
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	392	397	383	361	393
Service Time	7.484	7.511	7.548	7.788	6.867
HCM Lane V/C Ratio	2.003	3.028	1.282	0.92	0.059
HCM Control Delay	77.8	77.9	78.1	63.1	12.4
HCM Lane LOS	F	F	F	F	B
HCM 95th-tile Q	11.9	11.9	11.9	9.6	0.2

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	135	170	21
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10
Mvmt Flow	0	147	185	23
Number of Lanes	0	0	1	1

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	1
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	59.8
HCM LOS	F

Lane

Intersection	
Intersection Delay, s/veh	62.9
Intersection LOS	F

Movement	EBU	EBL	EBR	NBU	NBL	NBT	SBU	SBT	SBR
Vol, veh/h	0	333	588	0	329	658	0	375	57
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	22	22	10	25	25	10	25	25
Mvmt Flow	0	362	639	0	358	715	0	408	62
Number of Lanes	0	1	1	0	1	1	0	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	1	2
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	1	2	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	2	0	2
HCM Control Delay	59.9	62.8	69.7
HCM LOS	F	F	F

Lane	NBLn1	NBLn2	EBLn1	EBLn2	SBLn1
Vol Left, %	100%	0%	100%	0%	0%
Vol Thru, %	0%	100%	0%	0%	87%
Vol Right, %	0%	0%	0%	100%	13%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	329	658	333	588	432
LT Vol	329	0	333	0	0
Through Vol	0	658	0	0	375
RT Vol	0	0	0	588	57
Lane Flow Rate	358	715	362	639	470
Geometry Grp	7	7	7	7	4
Degree of Util (X)	0.855	1	0.859	1	1
Departure Headway (Hd)	8.605	8.105	8.546	7.346	7.733
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	418	451	423	492	474
Service Time	6.39	5.89	6.338	5.139	5.733
HCM Lane V/C Ratio	0.856	1.585	0.856	1.299	0.992
HCM Control Delay	45.2	71.6	45.5	68	69.7
HCM Lane LOS	E	F	E	F	F
HCM 95th-tile Q	8.4	12.8	8.5	13.5	13.2

Intersection	
Intersection Delay, s/veh	79.2
Intersection LOS	F

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Vol, veh/h	0	49	593	6	0	130	244	52	0	6	525	392	0	201	283	20
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	22	22	22	10	22	22	22
Mvmt Flow	0	53	645	7	0	141	265	57	0	7	571	426	0	218	308	22
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	79.1	79	78.8	80.2
HCM LOS	F	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	1%	8%	31%	40%
Vol Thru, %	57%	92%	57%	56%
Vol Right, %	42%	1%	12%	4%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	923	648	426	504
LT Vol	6	49	130	201
Through Vol	525	593	244	283
RT Vol	392	6	52	20
Lane Flow Rate	1003	704	463	548
Geometry Grp	1	1	1	1
Degree of Util (X)	1	1	1	1
Departure Headway (Hd)	9.669	9.728	9.755	9.978
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	381	380	375	367
Service Time	7.718	7.777	7.755	8.027
HCM Lane V/C Ratio	2.633	1.853	1.235	1.493
HCM Control Delay	78.8	79.1	79	80.2
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	11.8	11.8	11.8	11.6

Intersection	
Int Delay, s/veh	209.9

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	122	27	1260	715	87	339
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	22	22	22	22
Mvmt Flow	133	29	1370	777	95	368

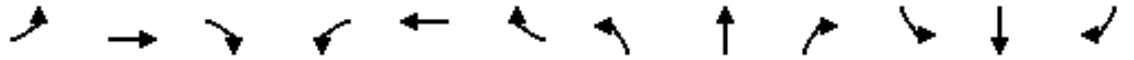
Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	2316	1758	0	0	2147	0
Stage 1	1758	-	-	-	-	-
Stage 2	558	-	-	-	-	-
Critical Hdwy	6.5	6.3	-	-	4.32	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	-	-	2.398	-
Pot Cap-1 Maneuver	~ 39	100	-	-	215	-
Stage 1	145	-	-	-	-	-
Stage 2	557	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	~ 17	100	-	-	215	-
Mov Cap-2 Maneuver	~ 17	-	-	-	-	-
Stage 1	145	-	-	-	-	-
Stage 2	247	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	$ 3572.6	0	7
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	20	215	-
HCM Lane V/C Ratio	-	-	8.098	0.44	-
HCM Control Delay (s)	-	$	3572.6	34.3	0
HCM Lane LOS	-	-	F	D	A
HCM 95th %tile Q(veh)	-	-	20.7	2.1	-

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	1167	1266	14	28	414	2	33	67	50	6	51	492
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	1268	1376	15	30	450	2	36	73	54	7	55	535
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	661	1304	14	71	1314	6	71	145	107	169	22	212
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.76	0.76	0.76	0.76	0.76	0.76	0.16	0.16	0.16	0.16	0.16	0.16
Ln Grp Delay, s/veh	438.6	0.0	52.7	55.0	0.0	4.0	57.0	0.0	41.0	43.1	0.0	742.2
Ln Grp LOS	F		F	E		A	E		D	D		F
Approach Vol, veh/h		2659			482			163			597	
Approach Delay, s/veh		236.7			7.2			44.5			734.0	
Approach LOS		F			A			D			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Case No		6.0		6.0		6.0		6.0
Phs Duration (G+Y+Rc), s		20.0		82.0		20.0		82.0
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green (Gmax), s		16.0		78.0		16.0		78.0
Max Allow Headway (MAH), s		4.4		4.7		4.4		4.7
Max Q Clear (g_c+I1), s		18.0		80.0		18.0		80.0
Green Ext Time (g_e), s		0.0		0.0		0.0		0.0
Prob of Phs Call (p_c)		1.00		1.00		1.00		1.00
Prob of Max Out (p_x)		1.00		1.00		1.00		1.00

Left-Turn Movement Data								
Assigned Mvmt		5		7		1		3
Mvmt Sat Flow, veh/h		763		867		1167		359

Through Movement Data								
Assigned Mvmt		2		4		6		8
Mvmt Sat Flow, veh/h		924		1705		139		1718

Right-Turn Movement Data								
Assigned Mvmt		12		14		16		18
Mvmt Sat Flow, veh/h		683		19		1350		8

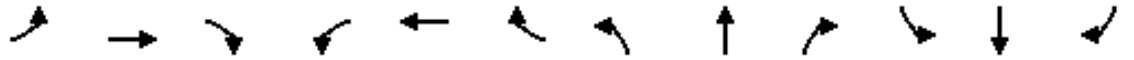
Left Lane Group Data								
Assigned Mvmt	0	5	0	7	0	1	0	3
Lane Assignment								
Lanes in Grp	0	1	0	1	0	1	0	1

Grp Vol (v), veh/h	0	36	0	1268	0	7	0	30
Grp Sat Flow (s), veh/h/ln	0	763	0	867	0	1167	0	359
Q Serve Time (g_s), s	0.0	0.0	0.0	69.5	0.0	0.6	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	16.0	0.0	78.0	0.0	7.9	0.0	78.0
Perm LT Sat Flow (s_l), veh/h/ln	0	763	0	867	0	1167	0	359
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	16.0	0.0	78.0	0.0	16.0	0.0	78.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	69.5	0.0	8.6	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	69.5	0.0	0.6	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	71	0	661	0	169	0	71
V/C Ratio (X)	0.00	0.51	0.00	1.92	0.00	0.04	0.00	0.42
Avail Cap (c_a), veh/h	0	71	0	661	0	169	0	71
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	51.0	0.0	20.0	0.0	43.0	0.0	51.0
Incr Delay (d2), s/veh	0.0	6.0	0.0	418.7	0.0	0.1	0.0	4.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	57.0	0.0	438.6	0.0	43.1	0.0	55.0
1st-Term Q (Q1), veh/ln	0.0	1.0	0.0	18.5	0.0	0.2	0.0	0.8
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	76.9	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.1	0.0	95.4	0.0	0.2	0.0	0.9
%ile Storage Ratio (RQ%)	0.00	0.49	0.00	9.91	0.00	0.02	0.00	0.13
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	151.7	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	0	8
Lane Assignment								
Lanes in Grp	0	0	0	0	0	0	0	0
Grp Vol (v), veh/h	0	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	0	18
Lane Assignment		T+R		T+R		T+R		T+R
Lanes in Grp	0	1	0	1	0	1	0	1
Grp Vol (v), veh/h	0	127	0	1391	0	590	0	452
Grp Sat Flow (s), veh/h/ln	0	1607	0	1724	0	1489	0	1726
Q Serve Time (g_s), s	0.0	7.4	0.0	78.0	0.0	16.0	0.0	8.5
Cycle Q Clear Time (g_c), s	0.0	7.4	0.0	78.0	0.0	16.0	0.0	8.5
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.43	0.00	0.01	0.00	0.91	0.00	0.00
Lane Grp Cap (c), veh/h	0	252	0	1318	0	234	0	1320
V/C Ratio (X)	0.00	0.50	0.00	1.06	0.00	2.53	0.00	0.34
Avail Cap (c_a), veh/h	0	252	0	1318	0	234	0	1320
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	39.4	0.0	12.0	0.0	43.0	0.0	3.8
Incr Delay (d2), s/veh	0.0	1.6	0.0	40.7	0.0	699.2	0.0	0.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	41.0	0.0	52.7	0.0	742.2	0.0	4.0
1st-Term Q (Q1), veh/ln	0.0	3.3	0.0	35.9	0.0	6.6	0.0	4.0
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	14.9	0.0	45.4	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	3.4	0.0	50.8	0.0	51.9	0.0	4.1
%ile Storage Ratio (RQ%)	0.00	0.01	0.00	0.15	0.00	0.16	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	18.2	0.0	89.1	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.0	0.6	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	276.5
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	1167	1266	14	28	414	2	33	67	50	6	51	492
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	1268	1376	15	30	450	2	36	73	54	7	55	535
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	661	1304	14	71	1314	6	71	145	107	169	22	212
Arrive On Green	0.76	0.76	0.76	0.76	0.76	0.76	0.16	0.16	0.16	0.16	0.16	0.16
Sat Flow, veh/h	867	1705	19	359	1718	8	763	924	683	1167	139	1350
Grp Volume(v), veh/h	1268	0	1391	30	0	452	36	0	127	7	0	590
Grp Sat Flow(s),veh/h/ln	867	0	1724	359	0	1726	763	0	1607	1167	0	1489
Q Serve(g_s), s	69.5	0.0	78.0	0.0	0.0	8.5	0.0	0.0	7.4	0.6	0.0	16.0
Cycle Q Clear(g_c), s	78.0	0.0	78.0	78.0	0.0	8.5	16.0	0.0	7.4	7.9	0.0	16.0
Prop In Lane	1.00		0.01	1.00		0.00	1.00		0.43	1.00		0.91
Lane Grp Cap(c), veh/h	661	0	1318	71	0	1320	71	0	252	169	0	234
V/C Ratio(X)	1.92	0.00	1.06	0.42	0.00	0.34	0.51	0.00	0.50	0.04	0.00	2.53
Avail Cap(c_a), veh/h	661	0	1318	71	0	1320	71	0	252	169	0	234
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	20.0	0.0	12.0	51.0	0.0	3.8	51.0	0.0	39.4	43.0	0.0	43.0
Incr Delay (d2), s/veh	418.7	0.0	40.7	4.0	0.0	0.2	6.0	0.0	1.6	0.1	0.0	699.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	95.4	0.0	50.8	0.9	0.0	4.1	1.1	0.0	3.4	0.2	0.0	51.9
LnGrp Delay(d),s/veh	438.6	0.0	52.7	55.0	0.0	4.0	57.0	0.0	41.0	43.1	0.0	742.2
LnGrp LOS	F		F	E		A	E		D	D		F
Approach Vol, veh/h		2659			482			163			597	
Approach Delay, s/veh		236.7			7.2			44.5			734.0	
Approach LOS		F			A			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Phs Duration (G+Y+Rc), s		20.0		82.0		20.0		82.0
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green Setting (Gmax), s		16.0		78.0		16.0		78.0
Max Q Clear Time (g_c+I1), s		18.0		80.0		18.0		80.0
Green Ext Time (p_c), s		0.0		0.0		0.0		0.0

Intersection Summary		
HCM 2010 Ctrl Delay		276.5
HCM 2010 LOS		F

Intersection	
Intersection Delay, s/veh	57.1
Intersection LOS	F

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Vol, veh/h	0	15	14	11	0	71	57	255	0	15	315	178	0	888	660	18
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	16	15	12	0	77	62	277	0	16	342	193	0	965	717	20
Number of Lanes	0	0	1	0	0	0	1	1	0	0	1	0	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	2	1
HCM Control Delay	13.1	17.5	63.1	66
HCM LOS	B	C	F	F

Lane	NBLn1	EBLn1	WBLn1	WBLn2	SBLn1
Vol Left, %	3%	38%	55%	0%	57%
Vol Thru, %	62%	35%	45%	0%	42%
Vol Right, %	35%	28%	0%	100%	1%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	508	40	128	255	1566
LT Vol	15	15	71	0	888
Through Vol	315	14	57	0	660
RT Vol	178	11	0	255	18
Lane Flow Rate	552	43	139	277	1702
Geometry Grp	2	5	7	7	2
Degree of Util (X)	0.997	0.108	0.318	0.559	1
Departure Headway (Hd)	6.499	8.909	8.233	7.256	6.893
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	558	401	437	499	545
Service Time	4.545	6.991	5.97	4.992	4.967
HCM Lane V/C Ratio	0.989	0.107	0.318	0.555	3.123
HCM Control Delay	63.1	13.1	14.8	18.8	66
HCM Lane LOS	F	B	B	C	F
HCM 95th-tile Q	14.2	0.4	1.3	3.4	13.9

Movement	NBL	NBR	SET	SER	NWL	NWT
Lane Configurations						
Volume (veh/h)	141	51	0	0	0	0
Number	5	12	4	14	3	8
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1598	1598	1727	1727
Adj Flow Rate, veh/h	153	55	0	0	0	0
Adj No. of Lanes	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Opposing Right Turn Influence	Yes				Yes	
Cap, veh/h	187	167	1	1	1349	1416
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.11	0.11	0.00	0.00	0.00	0.00
Ln Grp Delay, s/veh	60.4	50.1	0.0	0.0	0.0	0.0
Ln Grp LOS	E	D				
Approach Vol, veh/h	208		0			0
Approach Delay, s/veh	57.7		0.0			0.0
Approach LOS	E					

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2	4	3				8
Case No		9.0	7.0	2.0				4.0
Phs Duration (G+Y+Rc), s		17.6	0.0	102.4				102.4
Change Period (Y+Rc), s		4.0	4.0	4.0				4.0
Max Green (Gmax), s		42.0	39.0	27.0				70.0
Max Allow Headway (MAH), s		4.2	0.0	0.0				0.0
Max Q Clear (g_c+I1), s		12.9	0.0	0.0				0.0
Green Ext Time (g_e), s		0.7	0.0	0.0				0.0
Prob of Phs Call (p_c)		1.00	0.00	0.00				0.00
Prob of Max Out (p_x)		0.00	0.00	0.00				0.00

Left-Turn Movement Data								
Assigned Mvmt		5	7	3				
Mvmt Sat Flow, veh/h		1645	0	1645				

Through Movement Data								
Assigned Mvmt		2	4					8
Mvmt Sat Flow, veh/h		0	-63909					1727

Right-Turn Movement Data								
Assigned Mvmt		12	14					18
Mvmt Sat Flow, veh/h		1468	1358					0

Left Lane Group Data								
Assigned Mvmt	0	5	7	3	0	0	0	0
Lane Assignment				(Prot)				
Lanes in Grp	0	1	0	1	0	0	0	0

Grp Vol (v), veh/h	0	153	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	1645	0	1645	0	0	0	0
Q Serve Time (g_s), s	0.0	10.9	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	10.9	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	1645	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	-4.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	187	0	1349	0	0	0	0
V/C Ratio (X)	0.00	0.82	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	576	0	1349	0	0	0	0
Upstream Filter (I)	0.00	0.98	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	52.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	8.4	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	60.4	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	0	0	0	8
Lane Assignment			T					T
Lanes in Grp	0	0	1	0	0	0	0	1
Grp Vol (v), veh/h	0	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	1598	0	0	0	0	1727
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	1	0	0	0	0	1416
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	519	0	0	0	0	1416
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	14	0	0	0	0	18
Lane Assignment		R	R					
Lanes in Grp	0	1	1	0	0	0	0	0
Grp Vol (v), veh/h	0	55	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	1468	1358	0	0	0	0	0
Q Serve Time (g_s), s	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	167	1	0	0	0	0	0
V/C Ratio (X)	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	514	441	0	0	0	0	0
Upstream Filter (I)	0.00	0.98	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	49.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	50.1	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

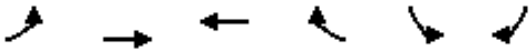
Intersection Summary	
HCM 2010 Ctrl Delay	57.7
HCM 2010 LOS	E



Movement	NBL	NBR	SET	SER	NWL	NWT
Lane Configurations						
Volume (veh/h)	141	51	0	0	0	0
Number	5	12	4	14	3	8
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1598	1598	1727	1727
Adj Flow Rate, veh/h	153	55	0	0	0	0
Adj No. of Lanes	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Cap, veh/h	187	167	1	1	1349	1416
Arrive On Green	0.11	0.11	0.00	0.00	0.00	0.00
Sat Flow, veh/h	1645	1468	-63909	1358	1645	1727
Grp Volume(v), veh/h	153	55	0	0	0	0
Grp Sat Flow(s),veh/h/ln	1645	1468	1598	1358	1645	1727
Q Serve(g_s), s	10.9	4.1	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	10.9	4.1	0.0	0.0	0.0	0.0
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	187	167	1	1	1349	1416
V/C Ratio(X)	0.82	0.33	0.00	0.00	0.00	0.00
Avail Cap(c_a), veh/h	576	514	519	441	1349	1416
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.98	0.98	0.00	0.00	0.00	0.00
Uniform Delay (d), s/veh	52.0	49.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	8.4	1.1	0.0	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.4	1.7	0.0	0.0	0.0	0.0
LnGrp Delay(d),s/veh	60.4	50.1	0.0	0.0	0.0	0.0
LnGrp LOS	E	D				
Approach Vol, veh/h	208		0			0
Approach Delay, s/veh	57.7		0.0			0.0
Approach LOS	E					

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4				8
Phs Duration (G+Y+Rc), s		17.6	102.4	0.0				102.4
Change Period (Y+Rc), s		4.0	4.0	4.0				4.0
Max Green Setting (Gmax), s		42.0	27.0	39.0				70.0
Max Q Clear Time (g_c+I1), s		12.9	0.0	0.0				0.0
Green Ext Time (p_c), s		0.7	0.0	0.0				0.0

Intersection Summary	
HCM 2010 Ctrl Delay	57.7
HCM 2010 LOS	E



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (veh/h)	34	1130	431	211	176	3
Number	7	4	8	18	1	16
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00			1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	37	1228	468	229	191	3
Adj No. of Lanes	1	2	2	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Opposing Right Turn Influence	Yes				Yes	
Cap, veh/h	46	2620	2419	1082	222	198
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.03	0.80	0.74	0.74	0.14	0.14
Ln Grp Delay, s/veh	84.8	4.5	5.0	5.4	60.1	45.0
Ln Grp LOS	F	A	A	A	E	D
Approach Vol, veh/h		1265	697		194	
Approach Delay, s/veh		6.9	5.1		59.9	
Approach LOS		A	A		E	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	6			4			7	8
Case No	9.0			4.0			2.0	7.0
Phs Duration (G+Y+Rc), s	20.2			99.8			7.4	92.4
Change Period (Y+Rc), s	4.0			4.0			4.0	4.0
Max Green (Gmax), s	34.0			78.0			18.0	56.0
Max Allow Headway (MAH), s	4.1			4.1			4.1	4.1
Max Q Clear (g_c+I1), s	15.6			16.5			4.7	7.8
Green Ext Time (g_e), s	0.6			12.5			0.0	12.2
Prob of Phs Call (p_c)	1.00			1.00			0.71	1.00
Prob of Max Out (p_x)	0.00			0.00			0.00	0.00

Left-Turn Movement Data								
Assigned Mvmt	1						7	3
Mvmt Sat Flow, veh/h	1645						1645	0

Through Movement Data								
Assigned Mvmt	6			4				8
Mvmt Sat Flow, veh/h	0			3368				3368

Right-Turn Movement Data								
Assigned Mvmt	16			14				18
Mvmt Sat Flow, veh/h	1468			0				1468

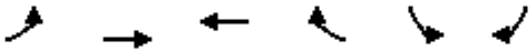
Left Lane Group Data								
Assigned Mvmt	1	0	0	0	0	0	7	3
Lane Assignment							(Prot)	
Lanes in Grp	1	0	0	0	0	0	1	0

Grp Vol (v), veh/h	191	0	0	0	0	0	37	0
Grp Sat Flow (s), veh/h/ln	1645	0	0	0	0	0	1645	0
Q Serve Time (g_s), s	13.6	0.0	0.0	0.0	0.0	0.0	2.7	0.0
Cycle Q Clear Time (g_c), s	13.6	0.0	0.0	0.0	0.0	0.0	2.7	0.0
Perm LT Sat Flow (s_l), veh/h/ln	1645	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	88.4
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	222	0	0	0	0	0	46	0
V/C Ratio (X)	0.86	0.00	0.00	0.00	0.00	0.00	0.81	0.00
Avail Cap (c_a), veh/h	466	0	0	0	0	0	247	0
Upstream Filter (I)	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	50.8	0.0	0.0	0.0	0.0	0.0	58.0	0.0
Incr Delay (d2), s/veh	9.3	0.0	0.0	0.0	0.0	0.0	26.8	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	60.1	0.0	0.0	0.0	0.0	0.0	84.8	0.0
1st-Term Q (Q1), veh/ln	6.2	0.0	0.0	0.0	0.0	0.0	1.2	0.0
2nd-Term Q (Q2), veh/ln	0.6	0.0	0.0	0.0	0.0	0.0	0.3	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00
%ile Back of Q (50%), veh/ln	6.8	0.0	0.0	0.0	0.0	0.0	1.6	0.0
%ile Storage Ratio (RQ%)	1.03	0.00	0.00	0.00	0.00	0.00	0.22	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	6	0	0	4	0	0	0	8
Lane Assignment				T				T
Lanes in Grp	0	0	0	2	0	0	0	2
Grp Vol (v), veh/h	0	0	0	1228	0	0	0	468
Grp Sat Flow (s), veh/h/ln	0	0	0	1641	0	0	0	1641
Q Serve Time (g_s), s	0.0	0.0	0.0	14.5	0.0	0.0	0.0	5.2
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	14.5	0.0	0.0	0.0	5.2
Lane Grp Cap (c), veh/h	0	0	0	2620	0	0	0	2419
V/C Ratio (X)	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.19
Avail Cap (c_a), veh/h	0	0	0	2620	0	0	0	2419
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99
Uniform Delay (d1), s/veh	0.0	0.0	0.0	3.9	0.0	0.0	0.0	4.8
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	4.5	0.0	0.0	0.0	5.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	6.5	0.0	0.0	0.0	2.3
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.1

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	6.7	0.0	0.0	0.0	2.4
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	16	0	0	14	0	0	0	18
Lane Assignment	R							R
Lanes in Grp	1	0	0	0	0	0	0	1
Grp Vol (v), veh/h	3	0	0	0	0	0	0	229
Grp Sat Flow (s), veh/h/ln	1468	0	0	0	0	0	0	1468
Q Serve Time (g_s), s	0.2	0.0	0.0	0.0	0.0	0.0	0.0	5.8
Cycle Q Clear Time (g_c), s	0.2	0.0	0.0	0.0	0.0	0.0	0.0	5.8
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	198	0	0	0	0	0	0	1082
V/C Ratio (X)	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.21
Avail Cap (c_a), veh/h	416	0	0	0	0	0	0	1082
Upstream Filter (I)	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99
Uniform Delay (d1), s/veh	45.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	45.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4
1st-Term Q (Q1), veh/ln	0.2	0.0	0.0	0.0	0.0	0.0	0.0	2.4
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.2	0.0	0.0	0.0	0.0	0.0	0.0	2.5
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	11.1
HCM 2010 LOS	B



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (veh/h)	34	1130	431	211	176	3
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	37	1228	468	229	191	3
Adj No. of Lanes	1	2	2	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Cap, veh/h	46	2620	2419	1082	222	198
Arrive On Green	0.03	0.80	0.74	0.74	0.14	0.14
Sat Flow, veh/h	1645	3368	3368	1468	1645	1468
Grp Volume(v), veh/h	37	1228	468	229	191	3
Grp Sat Flow(s),veh/h/ln	1645	1641	1641	1468	1645	1468
Q Serve(g_s), s	2.7	14.5	5.2	5.8	13.6	0.2
Cycle Q Clear(g_c), s	2.7	14.5	5.2	5.8	13.6	0.2
Prop In Lane	1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	46	2620	2419	1082	222	198
V/C Ratio(X)	0.81	0.47	0.19	0.21	0.86	0.02
Avail Cap(c_a), veh/h	247	2620	2419	1082	466	416
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.99	0.99	1.00	1.00
Uniform Delay (d), s/veh	58.0	3.9	4.8	4.9	50.8	45.0
Incr Delay (d2), s/veh	26.8	0.6	0.2	0.4	9.3	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.6	6.7	2.4	2.5	6.8	0.2
LnGrp Delay(d),s/veh	84.8	4.5	5.0	5.4	60.1	45.0
LnGrp LOS	F	A	A	A	E	D
Approach Vol, veh/h		1265	697		194	
Approach Delay, s/veh		6.9	5.1		59.9	
Approach LOS		A	A		E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6	7	8
Phs Duration (G+Y+Rc), s				99.8		20.2	7.4	92.4
Change Period (Y+Rc), s				4.0		4.0	4.0	4.0
Max Green Setting (Gmax), s				78.0		34.0	18.0	56.0
Max Q Clear Time (g_c+I1), s				16.5		15.6	4.7	7.8
Green Ext Time (p_c), s				12.5		0.6	0.0	12.2

Intersection Summary	
HCM 2010 Ctrl Delay	11.1
HCM 2010 LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	157	1793	372	250	1098	24	37	74	22	57	436	37
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	171	1949	404	272	1193	26	40	80	24	62	474	40
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	196	1597	714	206	1616	723	49	110	94	314	389	330
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.12	0.49	0.49	0.13	0.49	0.49	0.03	0.06	0.06	0.19	0.22	0.22
Ln Grp Delay, s/veh	74.5	134.6	24.3	226.5	27.2	3.9	112.1	63.8	35.2	41.1	166.5	37.2
Ln Grp LOS	E	F	C	F	C	A	F	E	D	D	F	D
Approach Vol, veh/h		2524			1491			144			576	
Approach Delay, s/veh		112.9			63.2			72.5			144.0	
Approach LOS		F			E			E			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	5	6	7	8
Case No	3.0	2.0	2.0	3.0	2.0	3.0	2.0	3.0
Phs Duration (G+Y+Rc), s	11.7	26.9	19.0	62.4	7.6	31.0	18.3	63.1
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	21.0	10.0	15.0	58.0	4.0	27.0	16.0	57.0
Max Allow Headway (MAH), s	4.1	4.0	4.1	4.1	4.1	4.0	4.1	4.1
Max Q Clear (g_c+I1), s	7.5	5.8	17.0	60.4	4.9	29.0	14.3	36.8
Green Ext Time (g_e), s	0.2	0.9	0.0	0.0	0.0	0.0	0.1	17.2
Prob of Phs Call (p_c)	1.00	0.87	1.00	1.00	0.74	1.00	1.00	1.00
Prob of Max Out (p_x)	0.00	0.95	1.00	0.00	1.00	1.00	1.00	0.00

Left-Turn Movement Data								
Assigned Mvmt		1	3		5		7	
Mvmt Sat Flow, veh/h		1645	1645		1645		1645	

Through Movement Data								
Assigned Mvmt	2			4		6		8
Mvmt Sat Flow, veh/h	1727			3282		1727		3282

Right-Turn Movement Data								
Assigned Mvmt	12			14		16		18
Mvmt Sat Flow, veh/h	1468			1468		1468		1468

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	5	0	7	0
Lane Assignment		(Prot)	(Prot)		(Prot)		(Prot)	
Lanes in Grp	0	1	1	0	1	0	1	0

Grp Vol (v), veh/h	0	62	272	0	40	0	171	0
Grp Sat Flow (s), veh/h/ln	0	1645	1645	0	1645	0	1645	0
Q Serve Time (g_s), s	0.0	3.8	15.0	0.0	2.9	0.0	12.3	0.0
Cycle Q Clear Time (g_c), s	0.0	3.8	15.0	0.0	2.9	0.0	12.3	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	314	206	0	49	0	196	0
V/C Ratio (X)	0.00	0.20	1.32	0.00	0.81	0.00	0.87	0.00
Avail Cap (c_a), veh/h	0	314	206	0	55	0	219	0
Upstream Filter (I)	0.00	1.00	0.96	0.00	1.00	0.00	0.77	0.00
Uniform Delay (d1), s/veh	0.0	40.8	52.5	0.0	57.9	0.0	52.0	0.0
Incr Delay (d2), s/veh	0.0	0.3	174.0	0.0	54.3	0.0	22.6	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	41.1	226.5	0.0	112.1	0.0	74.5	0.0
1st-Term Q (Q1), veh/ln	0.0	1.7	6.8	0.0	1.3	0.0	5.6	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	9.9	0.0	0.7	0.0	1.2	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	1.7	16.7	0.0	2.1	0.0	6.8	0.0
%ile Storage Ratio (RQ%)	0.00	0.57	1.23	0.00	0.46	0.00	0.53	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	16.6	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	0	6	0	8
Lane Assignment	T			T		T		T
Lanes in Grp	1	0	0	2	0	1	0	2
Grp Vol (v), veh/h	80	0	0	1949	0	474	0	1193
Grp Sat Flow (s), veh/h/ln	1727	0	0	1641	0	1727	0	1641
Q Serve Time (g_s), s	5.5	0.0	0.0	58.4	0.0	27.0	0.0	34.8
Cycle Q Clear Time (g_c), s	5.5	0.0	0.0	58.4	0.0	27.0	0.0	34.8
Lane Grp Cap (c), veh/h	110	0	0	1597	0	389	0	1616
V/C Ratio (X)	0.72	0.00	0.00	1.22	0.00	1.22	0.00	0.74
Avail Cap (c_a), veh/h	302	0	0	1597	0	389	0	1616
Upstream Filter (I)	1.00	0.00	0.00	0.77	0.00	1.00	0.00	0.96
Uniform Delay (d1), s/veh	55.1	0.0	0.0	30.8	0.0	46.5	0.0	24.3
Incr Delay (d2), s/veh	8.7	0.0	0.0	103.8	0.0	120.0	0.0	2.9
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	63.8	0.0	0.0	134.6	0.0	166.5	0.0	27.2
1st-Term Q (Q1), veh/ln	2.6	0.0	0.0	26.4	0.0	12.8	0.0	15.7
2nd-Term Q (Q2), veh/ln	0.3	0.0	0.0	23.0	0.0	13.0	0.0	0.7

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	2.9	0.0	0.0	49.4	0.0	25.8	0.0	16.4
%ile Storage Ratio (RQ%)	0.03	0.00	0.00	0.13	0.00	0.08	0.00	0.03
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	88.0	0.0	21.3	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.0	0.3	0.0	0.0

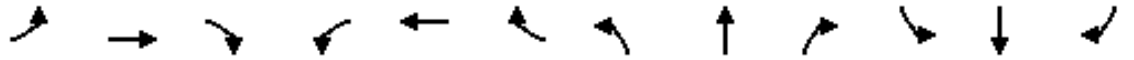
Right Lane Group Data								
Assigned Mvmt	12	0	0	14	0	16	0	18
Lane Assignment	R			R		R		R
Lanes in Grp	1	0	0	1	0	1	0	1
Grp Vol (v), veh/h	24	0	0	404	0	40	0	26
Grp Sat Flow (s), veh/h/ln	1468	0	0	1468	0	1468	0	1468
Q Serve Time (g_s), s	1.5	0.0	0.0	23.4	0.0	2.6	0.0	0.5
Cycle Q Clear Time (g_c), s	1.5	0.0	0.0	23.4	0.0	2.6	0.0	0.5
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	94	0	0	714	0	330	0	723
V/C Ratio (X)	0.26	0.00	0.00	0.57	0.00	0.12	0.00	0.04
Avail Cap (c_a), veh/h	257	0	0	714	0	330	0	723
Upstream Filter (I)	1.00	0.00	0.00	0.77	0.00	1.00	0.00	0.96
Uniform Delay (d1), s/veh	33.8	0.0	0.0	21.8	0.0	37.0	0.0	3.8
Incr Delay (d2), s/veh	1.4	0.0	0.0	2.5	0.0	0.2	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	35.2	0.0	0.0	24.3	0.0	37.2	0.0	3.9
1st-Term Q (Q1), veh/ln	0.6	0.0	0.0	9.5	0.0	1.1	0.0	0.2
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.6	0.0	0.0	10.0	0.0	1.1	0.0	0.2
%ile Storage Ratio (RQ%)	0.14	0.00	0.00	1.31	0.00	0.33	0.00	0.03
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	99.8
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	157	1793	372	250	1098	24	37	74	22	57	436	37
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	171	1949	404	272	1193	26	40	80	24	62	474	40
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	196	1597	714	206	1616	723	49	110	94	314	389	330
Arrive On Green	0.12	0.49	0.49	0.13	0.49	0.49	0.03	0.06	0.06	0.19	0.22	0.22
Sat Flow, veh/h	1645	3282	1468	1645	3282	1468	1645	1727	1468	1645	1727	1468
Grp Volume(v), veh/h	171	1949	404	272	1193	26	40	80	24	62	474	40
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1641	1468	1645	1727	1468	1645	1727	1468
Q Serve(g_s), s	12.3	58.4	23.4	15.0	34.8	0.5	2.9	5.5	1.5	3.8	27.0	2.6
Cycle Q Clear(g_c), s	12.3	58.4	23.4	15.0	34.8	0.5	2.9	5.5	1.5	3.8	27.0	2.6
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	196	1597	714	206	1616	723	49	110	94	314	389	330
V/C Ratio(X)	0.87	1.22	0.57	1.32	0.74	0.04	0.81	0.72	0.26	0.20	1.22	0.12
Avail Cap(c_a), veh/h	219	1597	714	206	1616	723	55	302	257	314	389	330
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.77	0.77	0.77	0.96	0.96	0.96	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	52.0	30.8	21.8	52.5	24.3	3.8	57.9	55.1	33.8	40.8	46.5	37.0
Incr Delay (d2), s/veh	22.6	103.8	2.5	174.0	2.9	0.1	54.3	8.7	1.4	0.3	120.0	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.8	49.4	10.0	16.7	16.4	0.2	2.1	2.9	0.6	1.7	25.8	1.1
LnGrp Delay(d),s/veh	74.5	134.6	24.3	226.5	27.2	3.9	112.1	63.8	35.2	41.1	166.5	37.2
LnGrp LOS	E	F	C	F	C	A	F	E	D	D	F	D
Approach Vol, veh/h		2524			1491			144			576	
Approach Delay, s/veh		112.9			63.2			72.5			144.0	
Approach LOS		F			E			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	26.9	11.7	19.0	62.4	7.6	31.0	18.3	63.1
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	10.0	21.0	15.0	58.0	4.0	27.0	16.0	57.0
Max Q Clear Time (g_c+I1), s	5.8	7.5	17.0	60.4	4.9	29.0	14.3	36.8
Green Ext Time (p_c), s	0.9	0.2	0.0	0.0	0.0	0.0	0.1	17.2

Intersection Summary	
HCM 2010 Ctrl Delay	99.8
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	1481	130	765	754	13	55	5	262	3	11	0
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	1610	141	832	820	14	60	5	285	3	12	0
Adj No. of Lanes	1	2	1	1	2	0	2	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	1	1067	477	764	2716	46	141	128	109	5	58	49
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.00	0.32	0.32	0.46	0.82	0.82	0.04	0.07	0.07	0.00	0.03	0.00
Ln Grp Delay, s/veh	0.0	270.2	30.4	88.2	3.0	2.9	56.1	51.6	737.7	132.7	58.2	0.0
Ln Grp LOS		F	C	F	A	A	E	D	F	F	E	
Approach Vol, veh/h		1751			1666			350			15	
Approach Delay, s/veh		250.9			45.5			611.1			73.1	
Approach LOS		F			D			F			E	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	6	5	7	8
Case No	2.0	3.0	3.0	2.0	3.0	2.0	2.0	4.0
Phs Duration (G+Y+Rc), s	4.4	12.9	43.0	59.7	8.0	9.3	0.0	102.7
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	4.0	28.0	39.0	33.0	16.0	16.0	4.0	68.0
Max Allow Headway (MAH), s	4.1	4.3	4.0	4.1	4.0	4.3	0.0	4.1
Max Q Clear (g_c+I1), s	2.2	5.8	41.0	57.7	2.8	4.2	0.0	9.0
Green Ext Time (g_e), s	0.0	1.4	0.0	0.0	0.0	1.1	0.0	9.1
Prob of Phs Call (p_c)	0.10	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Prob of Max Out (p_x)	1.00	0.00	0.00	1.00	0.00	0.03	0.00	0.00

Left-Turn Movement Data								
Assigned Mvmt	1			3		5	7	
Mvmt Sat Flow, veh/h	1645			1645		3191	1645	

Through Movement Data								
Assigned Mvmt		2	4		6			8
Mvmt Sat Flow, veh/h		1727	3282		1727			3302

Right-Turn Movement Data								
Assigned Mvmt		12	14		16			18
Mvmt Sat Flow, veh/h		1468	1468		1468			56

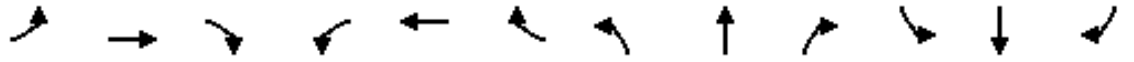
Left Lane Group Data								
Assigned Mvmt	1	0	0	3	0	5	7	0
Lane Assignment	(Prot)			(Prot)		(Prot)	(Prot)	
Lanes in Grp	1	0	0	1	0	2	1	0

Grp Vol (v), veh/h	3	0	0	832	0	60	0	0
Grp Sat Flow (s), veh/h/ln	1645	0	0	1645	0	1596	1645	0
Q Serve Time (g_s), s	0.2	0.0	0.0	55.7	0.0	2.2	0.0	0.0
Cycle Q Clear Time (g_c), s	0.2	0.0	0.0	55.7	0.0	2.2	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	5	0	0	764	0	141	1	0
V/C Ratio (X)	0.57	0.00	0.00	1.09	0.00	0.43	0.00	0.00
Avail Cap (c_a), veh/h	55	0	0	764	0	426	55	0
Upstream Filter (I)	1.00	0.00	0.00	0.77	0.00	0.09	0.00	0.00
Uniform Delay (d1), s/veh	59.7	0.0	0.0	32.1	0.0	55.9	0.0	0.0
Incr Delay (d2), s/veh	73.0	0.0	0.0	56.1	0.0	0.2	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	132.7	0.0	0.0	88.2	0.0	56.1	0.0	0.0
1st-Term Q (Q1), veh/ln	0.1	0.0	0.0	25.2	0.0	1.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.0	11.9	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.2	0.0	0.0	37.1	0.0	1.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.06	0.00	0.00	10.13	0.00	0.16	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	17.1	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	6	0	0	8
Lane Assignment		T	T		T			T
Lanes in Grp	0	1	2	0	1	0	0	1
Grp Vol (v), veh/h	0	5	1610	0	12	0	0	407
Grp Sat Flow (s), veh/h/ln	0	1727	1641	0	1727	0	0	1641
Q Serve Time (g_s), s	0.0	0.3	39.0	0.0	0.8	0.0	0.0	7.0
Cycle Q Clear Time (g_c), s	0.0	0.3	39.0	0.0	0.8	0.0	0.0	7.0
Lane Grp Cap (c), veh/h	0	128	1067	0	58	0	0	1350
V/C Ratio (X)	0.00	0.04	1.51	0.00	0.21	0.00	0.00	0.30
Avail Cap (c_a), veh/h	0	403	1067	0	230	0	0	1350
Upstream Filter (I)	0.00	0.09	0.09	0.00	1.00	0.00	0.00	0.77
Uniform Delay (d1), s/veh	0.0	51.6	40.5	0.0	56.5	0.0	0.0	2.5
Incr Delay (d2), s/veh	0.0	0.0	229.7	0.0	1.8	0.0	0.0	0.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	51.6	270.2	0.0	58.2	0.0	0.0	3.0
1st-Term Q (Q1), veh/ln	0.0	0.2	17.6	0.0	0.4	0.0	0.0	3.2
2nd-Term Q (Q2), veh/ln	0.0	0.0	34.0	0.0	0.0	0.0	0.0	0.2

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.2	51.7	0.0	0.4	0.0	0.0	3.3
%ile Storage Ratio (RQ%)	0.00	0.00	0.11	0.00	0.03	0.00	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	135.9	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	14	0	16	0	0	18
Lane Assignment		R	R		R			T+R
Lanes in Grp	0	1	1	0	1	0	0	1
Grp Vol (v), veh/h	0	285	141	0	0	0	0	427
Grp Sat Flow (s), veh/h/ln	0	1468	1468	0	1468	0	0	1717
Q Serve Time (g_s), s	0.0	3.8	8.6	0.0	0.0	0.0	0.0	7.0
Cycle Q Clear Time (g_c), s	0.0	3.8	8.6	0.0	0.0	0.0	0.0	7.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	0.03
Lane Grp Cap (c), veh/h	0	109	477	0	49	0	0	1413
V/C Ratio (X)	0.00	2.61	0.30	0.00	0.00	0.00	0.00	0.30
Avail Cap (c_a), veh/h	0	343	477	0	196	0	0	1413
Upstream Filter (I)	0.00	0.09	0.09	0.00	0.00	0.00	0.00	0.77
Uniform Delay (d1), s/veh	0.0	10.1	30.2	0.0	0.0	0.0	0.0	2.5
Incr Delay (d2), s/veh	0.0	727.6	0.1	0.0	0.0	0.0	0.0	0.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	737.7	30.4	0.0	0.0	0.0	0.0	2.9
1st-Term Q (Q1), veh/ln	0.0	1.5	3.5	0.0	0.0	0.0	0.0	3.3
2nd-Term Q (Q2), veh/ln	0.0	22.0	0.0	0.0	0.0	0.0	0.0	0.2
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	23.6	3.5	0.0	0.0	0.0	0.0	3.5
%ile Storage Ratio (RQ%)	0.00	5.95	0.38	0.00	0.00	0.00	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	44.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0

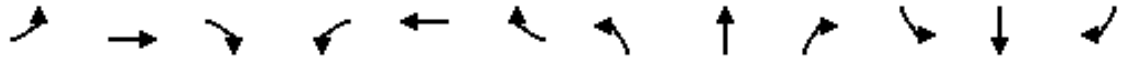
Intersection Summary	
HCM 2010 Ctrl Delay	193.1
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	1481	130	765	754	13	55	5	262	3	11	0
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	1610	141	832	820	14	60	5	285	3	12	0
Adj No. of Lanes	1	2	1	1	2	0	2	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	1	1067	477	764	2716	46	141	128	109	5	58	49
Arrive On Green	0.00	0.32	0.32	0.46	0.82	0.82	0.04	0.07	0.07	0.00	0.03	0.00
Sat Flow, veh/h	1645	3282	1468	1645	3302	56	3191	1727	1468	1645	1727	1468
Grp Volume(v), veh/h	0	1610	141	832	407	427	60	5	285	3	12	0
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1641	1717	1596	1727	1468	1645	1727	1468
Q Serve(g_s), s	0.0	39.0	8.6	55.7	7.0	7.0	2.2	0.3	3.8	0.2	0.8	0.0
Cycle Q Clear(g_c), s	0.0	39.0	8.6	55.7	7.0	7.0	2.2	0.3	3.8	0.2	0.8	0.0
Prop In Lane	1.00		1.00	1.00		0.03	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	1	1067	477	764	1350	1413	141	128	109	5	58	49
V/C Ratio(X)	0.00	1.51	0.30	1.09	0.30	0.30	0.43	0.04	2.61	0.57	0.21	0.00
Avail Cap(c_a), veh/h	55	1067	477	764	1350	1413	426	403	343	55	230	196
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.09	0.09	0.77	0.77	0.77	0.09	0.09	0.09	1.00	1.00	0.00
Uniform Delay (d), s/veh	0.0	40.5	30.2	32.1	2.5	2.5	55.9	51.6	10.1	59.7	56.5	0.0
Incr Delay (d2), s/veh	0.0	229.7	0.1	56.1	0.4	0.4	0.2	0.0	727.6	73.0	1.8	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	51.7	3.5	37.1	3.3	3.5	1.0	0.2	23.6	0.2	0.4	0.0
LnGrp Delay(d),s/veh	0.0	270.2	30.4	88.2	3.0	2.9	56.1	51.6	737.7	132.7	58.2	0.0
LnGrp LOS		F	C	F	A	A	E	D	F	F	E	
Approach Vol, veh/h		1751			1666			350			15	
Approach Delay, s/veh		250.9			45.5			611.1			73.1	
Approach LOS		F			D			F			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	4.4	12.9	59.7	43.0	9.3	8.0	0.0	102.7
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax),4s	0	28.0	33.0	39.0	16.0	16.0	4.0	68.0
Max Q Clear Time (g_c+I1),2s	2	5.8	57.7	41.0	4.2	2.8	0.0	9.0
Green Ext Time (p_c), s	0.0	1.4	0.0	0.0	1.1	0.0	0.0	9.1

Intersection Summary		
HCM 2010 Ctrl Delay	193.1	
HCM 2010 LOS	F	



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	19	1604	130	549	1265	14	103	2	324	100	71	21
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	21	1743	141	597	1375	15	112	2	352	109	77	23
Adj No. of Lanes	1	2	0	1	2	1	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	240	2087	167	135	2224	995	300	2	341	80	298	89
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.68	0.68	0.68	0.68	0.68	0.68	0.23	0.23	0.23	0.23	0.23	0.23
Ln Grp Delay, s/veh	14.9	15.9	16.9	1602.1	8.6	4.7	33.8	0.0	91.7	269.6	0.0	28.5
Ln Grp LOS	B	B	B	F	A	A	C		F	F		C
Approach Vol, veh/h		1905			1987			466			209	
Approach Delay, s/veh		16.4			487.3			77.8			154.2	
Approach LOS		B			F			E			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Case No		6.0		6.0		6.0		5.0
Phs Duration (G+Y+Rc), s		25.0		65.0		25.0		65.0
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green (Gmax), s		21.0		61.0		21.0		61.0
Max Allow Headway (MAH), s		4.5		6.0		4.5		6.0
Max Q Clear (g_c+I1), s		23.0		40.9		23.0		63.0
Green Ext Time (g_e), s		0.0		19.9		0.0		0.0
Prob of Phs Call (p_c)		1.00		1.00		1.00		1.00
Prob of Max Out (p_x)		1.00		0.99		1.00		1.00

Left-Turn Movement Data								
Assigned Mvmt		5		7		1		3
Mvmt Sat Flow, veh/h		1196		359		949		223

Through Movement Data								
Assigned Mvmt		2		4		6		8
Mvmt Sat Flow, veh/h		8		3079		1278		3282

Right-Turn Movement Data								
Assigned Mvmt		12		14		16		18
Mvmt Sat Flow, veh/h		1461		246		382		1468

Left Lane Group Data								
Assigned Mvmt	0	5	0	7	0	1	0	3
Lane Assignment								
Lanes in Grp	0	1	0	1	0	1	0	1

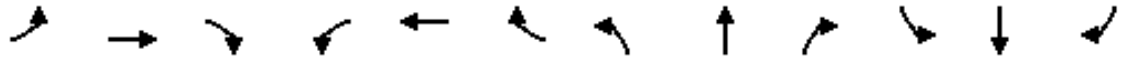
Grp Vol (v), veh/h	0	112	0	21	0	109	0	597
Grp Sat Flow (s), veh/h/ln	0	1196	0	359	0	949	0	223
Q Serve Time (g_s), s	0.0	7.6	0.0	3.1	0.0	0.0	0.0	22.1
Cycle Q Clear Time (g_c), s	0.0	12.0	0.0	24.0	0.0	21.0	0.0	61.0
Perm LT Sat Flow (s_l), veh/h/ln	0	1196	0	359	0	949	0	223
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	21.0	0.0	61.0	0.0	21.0	0.0	61.0
Perm LT Serve Time (g_u), s	0.0	16.6	0.0	40.1	0.0	0.0	0.0	22.1
Perm LT Q Serve Time (g_ps), s	0.0	7.6	0.0	3.1	0.0	0.0	0.0	22.1
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	300	0	240	0	80	0	135
V/C Ratio (X)	0.00	0.37	0.00	0.09	0.00	1.36	0.00	4.43
Avail Cap (c_a), veh/h	0	300	0	240	0	80	0	135
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	33.0	0.0	14.7	0.0	45.0	0.0	40.5
Incr Delay (d2), s/veh	0.0	0.8	0.0	0.2	0.0	224.6	0.0	1561.6
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	33.8	0.0	14.9	0.0	269.6	0.0	1602.1
1st-Term Q (Q1), veh/ln	0.0	2.5	0.0	0.3	0.0	2.0	0.0	3.3
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.0	0.0	5.0	0.0	58.4
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	2.6	0.0	0.3	0.0	7.0	0.0	61.8
%ile Storage Ratio (RQ%)	0.00	0.60	0.00	0.02	0.00	0.34	0.00	8.59
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	7.3	0.0	115.6
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.3	0.0	1.1

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	0	8
Lane Assignment				T				T
Lanes in Grp	0	0	0	1	0	0	0	2
Grp Vol (v), veh/h	0	0	0	919	0	0	0	1375
Grp Sat Flow (s), veh/h/ln	0	0	0	1641	0	0	0	1641
Q Serve Time (g_s), s	0.0	0.0	0.0	36.9	0.0	0.0	0.0	20.9
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	36.9	0.0	0.0	0.0	20.9
Lane Grp Cap (c), veh/h	0	0	0	1112	0	0	0	2224
V/C Ratio (X)	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.62
Avail Cap (c_a), veh/h	0	0	0	1112	0	0	0	2224
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	10.6	0.0	0.0	0.0	8.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	5.3	0.0	0.0	0.0	0.5
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	15.9	0.0	0.0	0.0	8.6
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	16.3	0.0	0.0	0.0	9.4
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.2

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	18.0	0.0	0.0	0.0	9.5
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.17
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	0	18
Lane Assignment		T+R		T+R		T+R		R
Lanes in Grp	0	1	0	1	0	1	0	1
Grp Vol (v), veh/h	0	354	0	965	0	100	0	15
Grp Sat Flow (s), veh/h/ln	0	1469	0	1684	0	1660	0	1468
Q Serve Time (g_s), s	0.0	21.0	0.0	38.9	0.0	4.4	0.0	0.3
Cycle Q Clear Time (g_c), s	0.0	21.0	0.0	38.9	0.0	4.4	0.0	0.3
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.99	0.00	0.15	0.00	0.23	0.00	1.00
Lane Grp Cap (c), veh/h	0	343	0	1141	0	387	0	995
V/C Ratio (X)	0.00	1.03	0.00	0.85	0.00	0.26	0.00	0.02
Avail Cap (c_a), veh/h	0	343	0	1141	0	387	0	995
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	34.5	0.0	10.9	0.0	28.1	0.0	4.7
Incr Delay (d2), s/veh	0.0	57.2	0.0	6.0	0.0	0.3	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	91.7	0.0	16.9	0.0	28.5	0.0	4.7
1st-Term Q (Q1), veh/ln	0.0	8.5	0.0	17.7	0.0	2.0	0.0	0.1
2nd-Term Q (Q2), veh/ln	0.0	5.5	0.0	1.9	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	13.9	0.0	19.6	0.0	2.1	0.0	0.1
%ile Storage Ratio (RQ%)	0.00	0.02	0.00	0.10	0.00	0.10	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0

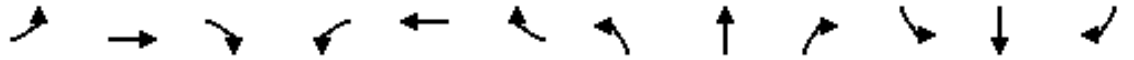
Intersection Summary	
HCM 2010 Ctrl Delay	233.9
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	19	1604	130	549	1265	14	103	2	324	100	71	21
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	21	1743	141	597	1375	15	112	2	352	109	77	23
Adj No. of Lanes	1	2	0	1	2	1	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	240	2087	167	135	2224	995	300	2	341	80	298	89
Arrive On Green	0.68	0.68	0.68	0.68	0.68	0.68	0.23	0.23	0.23	0.23	0.23	0.23
Sat Flow, veh/h	359	3079	246	223	3282	1468	1196	8	1461	949	1278	382
Grp Volume(v), veh/h	21	919	965	597	1375	15	112	0	354	109	0	100
Grp Sat Flow(s),veh/h/ln	359	1641	1684	223	1641	1468	1196	0	1469	949	0	1660
Q Serve(g_s), s	3.1	36.9	38.9	22.1	20.9	0.3	7.6	0.0	21.0	0.0	0.0	4.4
Cycle Q Clear(g_c), s	24.0	36.9	38.9	61.0	20.9	0.3	12.0	0.0	21.0	21.0	0.0	4.4
Prop In Lane	1.00		0.15	1.00		1.00	1.00		0.99	1.00		0.23
Lane Grp Cap(c), veh/h	240	1112	1141	135	2224	995	300	0	343	80	0	387
V/C Ratio(X)	0.09	0.83	0.85	4.43	0.62	0.02	0.37	0.00	1.03	1.36	0.00	0.26
Avail Cap(c_a), veh/h	240	1112	1141	135	2224	995	300	0	343	80	0	387
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	14.7	10.6	10.9	40.5	8.0	4.7	33.0	0.0	34.5	45.0	0.0	28.1
Incr Delay (d2), s/veh	0.2	5.3	6.0	1561.6	0.5	0.0	0.8	0.0	57.2	224.6	0.0	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	18.0	19.6	61.8	9.5	0.1	2.6	0.0	13.9	7.0	0.0	2.1
LnGrp Delay(d),s/veh	14.9	15.9	16.9	1602.1	8.6	4.7	33.8	0.0	91.7	269.6	0.0	28.5
LnGrp LOS	B	B	B	F	A	A	C		F	F		C
Approach Vol, veh/h		1905			1987			466			209	
Approach Delay, s/veh		16.4			487.3			77.8			154.2	
Approach LOS		B			F			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Phs Duration (G+Y+Rc), s		25.0		65.0		25.0		65.0
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green Setting (Gmax), s		21.0		61.0		21.0		61.0
Max Q Clear Time (g_c+I1), s		23.0		40.9		23.0		63.0
Green Ext Time (p_c), s		0.0		19.9		0.0		0.0

Intersection Summary		
HCM 2010 Ctrl Delay		233.9
HCM 2010 LOS		F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	401	1176	194	545	1050	391	350	1088	346	249	1085	152
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1545	1545	1545	1545	1545	1545	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	436	1278	211	592	1141	425	380	1183	376	271	1179	165
Adj No. of Lanes	1	2	1	1	2	1	1	2	0	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	23	23	23	23	23	23	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	233	856	383	306	1003	449	219	760	237	186	766	343
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.16	0.29	0.29	0.21	0.34	0.34	0.13	0.31	0.31	0.06	0.23	0.23
Ln Grp Delay, s/veh	458.7	270.5	41.5	467.8	102.8	30.5	400.0	295.1	315.3	264.3	289.4	39.8
Ln Grp LOS	F	F	D	F	F	C	F	F	F	F	F	D
Approach Vol, veh/h		1925			2158			1939			1615	
Approach Delay, s/veh		288.0			188.7			323.7			259.7	
Approach LOS		F			F			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	5	6	7	8
Case No	4.0	2.0	2.0	3.0	2.0	3.0	2.0	3.0
Phs Duration (G+Y+Rc), s	41.0	11.0	29.0	39.0	20.0	32.0	23.0	45.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	37.0	7.0	25.0	35.0	16.0	28.0	19.0	41.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	39.0	9.0	27.0	37.0	18.0	30.0	21.0	43.0
Green Ext Time (g_e), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prob of Max Out (p_x)	1.00	1.00	1.00	0.00	1.00	1.00	1.00	0.00

Left-Turn Movement Data								
Assigned Mvmt		1	3		5		7	
Mvmt Sat Flow, veh/h		3191	1471		1645		1471	

Through Movement Data								
Assigned Mvmt	2			4		6		8
Mvmt Sat Flow, veh/h	2464			2935		3282		2935

Right-Turn Movement Data								
Assigned Mvmt	12			14		16		18
Mvmt Sat Flow, veh/h	768			1313		1468		1313

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	5	0	7	0
Lane Assignment		(Prot)	(Prot)		(Prot)		(Prot)	
Lanes in Grp	0	2	1	0	1	0	1	0

Grp Vol (v), veh/h	0	271	592	0	380	0	436	0
Grp Sat Flow (s), veh/h/ln	0	1596	1471	0	1645	0	1471	0
Q Serve Time (g_s), s	0.0	7.0	25.0	0.0	16.0	0.0	19.0	0.0
Cycle Q Clear Time (g_c), s	0.0	7.0	25.0	0.0	16.0	0.0	19.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	186	306	0	219	0	233	0
V/C Ratio (X)	0.00	1.46	1.93	0.00	1.73	0.00	1.87	0.00
Avail Cap (c_a), veh/h	0	186	306	0	219	0	233	0
Upstream Filter (I)	0.00	0.09	0.09	0.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	56.5	47.5	0.0	52.0	0.0	50.5	0.0
Incr Delay (d2), s/veh	0.0	207.8	420.3	0.0	348.0	0.0	408.2	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	264.3	467.8	0.0	400.0	0.0	458.7	0.0
1st-Term Q (Q1), veh/ln	0.0	3.1	10.1	0.0	7.3	0.0	7.7	0.0
2nd-Term Q (Q2), veh/ln	0.0	5.4	35.8	0.0	21.2	0.0	26.4	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	8.5	45.9	0.0	28.5	0.0	34.1	0.0
%ile Storage Ratio (RQ%)	0.00	1.15	3.35	0.00	2.86	0.00	2.69	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	21.2	71.4	0.0	40.2	0.0	50.8	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.4	0.5	0.0	0.4	0.0	0.5	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	0	6	0	8
Lane Assignment	T			T		T		T
Lanes in Grp	1	0	0	2	0	2	0	2
Grp Vol (v), veh/h	780	0	0	1278	0	1179	0	1141
Grp Sat Flow (s), veh/h/ln	1641	0	0	1467	0	1641	0	1467
Q Serve Time (g_s), s	37.0	0.0	0.0	35.0	0.0	28.0	0.0	41.0
Cycle Q Clear Time (g_c), s	37.0	0.0	0.0	35.0	0.0	28.0	0.0	41.0
Lane Grp Cap (c), veh/h	506	0	0	856	0	766	0	1003
V/C Ratio (X)	1.54	0.00	0.00	1.49	0.00	1.54	0.00	1.14
Avail Cap (c_a), veh/h	506	0	0	856	0	766	0	1003
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	0.09	0.00	0.09
Uniform Delay (d1), s/veh	41.5	0.0	0.0	42.5	0.0	46.0	0.0	39.5
Incr Delay (d2), s/veh	253.6	0.0	0.0	228.0	0.0	243.4	0.0	63.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	295.1	0.0	0.0	270.5	0.0	289.4	0.0	102.8
1st-Term Q (Q1), veh/ln	16.7	0.0	0.0	14.1	0.0	12.7	0.0	16.6
2nd-Term Q (Q2), veh/ln	35.6	0.0	0.0	27.1	0.0	25.9	0.0	8.8

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	52.4	0.0	0.0	41.3	0.0	38.5	0.0	25.4
%ile Storage Ratio (RQ%)	0.41	0.00	0.00	0.03	0.00	0.05	0.00	0.15
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	68.5	0.0	0.0	105.5	0.0	103.3	0.0	34.6
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.4	0.0	0.0	0.4	0.0	0.4	0.0	0.3

Right Lane Group Data								
Assigned Mvmt	12	0	0	14	0	16	0	18
Lane Assignment	T+R			R		R		R
Lanes in Grp	1	0	0	1	0	1	0	1
Grp Vol (v), veh/h	779	0	0	211	0	165	0	425
Grp Sat Flow (s), veh/h/ln	1592	0	0	1313	0	1468	0	1313
Q Serve Time (g_s), s	37.0	0.0	0.0	16.3	0.0	11.6	0.0	30.6
Cycle Q Clear Time (g_c), s	37.0	0.0	0.0	16.3	0.0	11.6	0.0	30.6
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.48	0.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	491	0	0	383	0	343	0	449
V/C Ratio (X)	1.59	0.00	0.00	0.55	0.00	0.48	0.00	0.95
Avail Cap (c_a), veh/h	491	0	0	383	0	343	0	449
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	0.09	0.00	0.09
Uniform Delay (d1), s/veh	41.5	0.0	0.0	35.9	0.0	39.7	0.0	25.2
Incr Delay (d2), s/veh	273.8	0.0	0.0	5.6	0.0	0.1	0.0	5.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	315.3	0.0	0.0	41.5	0.0	39.8	0.0	30.5
1st-Term Q (Q1), veh/ln	16.2	0.0	0.0	5.9	0.0	4.7	0.0	11.1
2nd-Term Q (Q2), veh/ln	37.3	0.0	0.0	0.6	0.0	0.0	0.0	0.7
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	53.5	0.0	0.0	6.5	0.0	4.7	0.0	11.8
%ile Storage Ratio (RQ%)	0.42	0.00	0.00	2.14	0.00	0.63	0.00	2.34
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	72.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	263.1
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	401	1176	194	545	1050	391	350	1088	346	249	1085	152
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1545	1545	1545	1545	1545	1545	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	436	1278	211	592	1141	425	380	1183	376	271	1179	165
Adj No. of Lanes	1	2	1	1	2	1	1	2	0	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	23	23	23	23	23	23	10	10	10	10	10	10
Cap, veh/h	233	856	383	306	1003	449	219	760	237	186	766	343
Arrive On Green	0.16	0.29	0.29	0.21	0.34	0.34	0.13	0.31	0.31	0.06	0.23	0.23
Sat Flow, veh/h	1471	2935	1313	1471	2935	1313	1645	2464	768	3191	3282	1468
Grp Volume(v), veh/h	436	1278	211	592	1141	425	380	780	779	271	1179	165
Grp Sat Flow(s),veh/h/ln	1471	1467	1313	1471	1467	1313	1645	1641	1592	1596	1641	1468
Q Serve(g_s), s	19.0	35.0	16.3	25.0	41.0	30.6	16.0	37.0	37.0	7.0	28.0	11.6
Cycle Q Clear(g_c), s	19.0	35.0	16.3	25.0	41.0	30.6	16.0	37.0	37.0	7.0	28.0	11.6
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.48	1.00		1.00
Lane Grp Cap(c), veh/h	233	856	383	306	1003	449	219	506	491	186	766	343
V/C Ratio(X)	1.87	1.49	0.55	1.93	1.14	0.95	1.73	1.54	1.59	1.46	1.54	0.48
Avail Cap(c_a), veh/h	233	856	383	306	1003	449	219	506	491	186	766	343
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.09	0.09	0.09	1.00	1.00	1.00	0.09	0.09	0.09
Uniform Delay (d), s/veh	50.5	42.5	35.9	47.5	39.5	25.2	52.0	41.5	41.5	56.5	46.0	39.7
Incr Delay (d2), s/veh	408.2	228.0	5.6	420.3	63.3	5.3	348.0	253.6	273.8	207.8	243.4	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	84.1	41.3	6.5	45.9	25.4	11.8	28.5	52.4	53.5	8.5	38.5	4.7
LnGrp Delay(d),s/veh	458.7	270.5	41.5	467.8	102.8	30.5	400.0	295.1	315.3	264.3	289.4	39.8
LnGrp LOS	F	F	D	F	F	C	F	F	F	F	F	D
Approach Vol, veh/h		1925			2158			1939			1615	
Approach Delay, s/veh		288.0			188.7			323.7			259.7	
Approach LOS		F			F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.0	41.0	29.0	39.0	20.0	32.0	23.0	45.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	7.0	37.0	25.0	35.0	16.0	28.0	19.0	41.0
Max Q Clear Time (g_c+I1), s	9.0	39.0	27.0	37.0	18.0	30.0	21.0	43.0
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	263.1
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	317	3789	337	418	1381	220	796	1391	224	314	3001	261
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1545	1545	1900	1545	1545	1545	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	345	4118	366	454	1501	239	865	1512	243	341	3262	284
Adj No. of Lanes	2	2	0	2	2	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	23	23	23	23	23	23	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	166	1092	96	190	1198	536	319	1620	505	180	1415	440
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.06	0.40	0.40	0.07	0.41	0.41	0.10	0.34	0.34	0.06	0.30	0.30
Ln Grp Delay, s/veh	540.9	1261.1	1308.1	695.6	156.1	26.3	824.5	39.4	31.3	461.9	629.9	37.1
Ln Grp LOS	F	F	F	F	F	C	F	D	C	F	F	D
Approach Vol, veh/h		4829			2194			2620			3887	
Approach Delay, s/veh		1232.0			253.6			297.8			571.8	
Approach LOS		F			F			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	6	5	8	7
Case No	3.0	2.0	4.0	2.0	3.0	2.0	3.0	2.0
Phs Duration (G+Y+Rc), s	45.2	10.8	52.0	12.0	40.0	16.0	53.0	11.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	42.0	6.0	48.0	8.0	36.0	12.0	49.0	7.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.0	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	39.2	8.8	50.0	10.0	38.0	14.0	51.0	9.0
Green Ext Time (g_e), s	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prob of Max Out (p_x)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt		1		3		5		7
Mvmt Sat Flow, veh/h		3191		2854		3191		2854

Through Movement Data								
Assigned Mvmt	2		4		6		8	
Mvmt Sat Flow, veh/h	4715		2731		4715		2935	

Right-Turn Movement Data								
Assigned Mvmt	12		14		16		18	
Mvmt Sat Flow, veh/h	1468		239		1468		1313	

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	0	5	0	7
Lane Assignment		(Prot)		(Prot)		(Prot)		(Prot)
Lanes in Grp	0	2	0	2	0	2	0	2

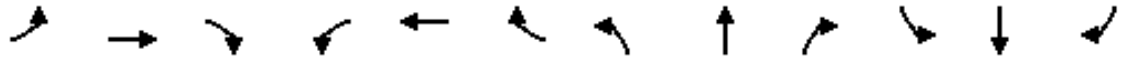
Grp Vol (v), veh/h	0	341	0	454	0	865	0	345
Grp Sat Flow (s), veh/h/ln	0	1596	0	1427	0	1596	0	1427
Q Serve Time (g_s), s	0.0	6.8	0.0	8.0	0.0	12.0	0.0	7.0
Cycle Q Clear Time (g_c), s	0.0	6.8	0.0	8.0	0.0	12.0	0.0	7.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	180	0	190	0	319	0	166
V/C Ratio (X)	0.00	1.90	0.00	2.39	0.00	2.71	0.00	2.07
Avail Cap (c_a), veh/h	0	180	0	190	0	319	0	166
Upstream Filter (I)	0.00	0.09	0.00	1.00	0.00	0.09	0.00	0.09
Uniform Delay (d1), s/veh	0.0	56.6	0.0	56.0	0.0	54.0	0.0	56.5
Incr Delay (d2), s/veh	0.0	405.3	0.0	639.6	0.0	770.5	0.0	484.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	461.9	0.0	695.6	0.0	824.5	0.0	540.9
1st-Term Q (Q1), veh/ln	0.0	3.0	0.0	3.1	0.0	5.3	0.0	2.8
2nd-Term Q (Q2), veh/ln	0.0	10.1	0.0	16.9	0.0	34.2	0.0	11.2
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	13.1	0.0	20.0	0.0	39.4	0.0	14.0
%ile Storage Ratio (RQ%)	0.00	1.58	0.00	1.23	0.00	5.49	0.00	0.81
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	40.3	0.0	65.9	0.0	136.5	0.0	44.6
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.5	0.0	0.6	0.0	0.7	0.0	0.5

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	6	0	8	0
Lane Assignment	T		T		T		T	
Lanes in Grp	3	0	1	0	3	0	2	0
Grp Vol (v), veh/h	1512	0	2185	0	3262	0	1501	0
Grp Sat Flow (s), veh/h/ln	1572	0	1467	0	1572	0	1467	0
Q Serve Time (g_s), s	37.2	0.0	48.0	0.0	36.0	0.0	49.0	0.0
Cycle Q Clear Time (g_c), s	37.2	0.0	48.0	0.0	36.0	0.0	49.0	0.0
Lane Grp Cap (c), veh/h	1620	0	587	0	1415	0	1198	0
V/C Ratio (X)	0.93	0.00	3.72	0.00	2.31	0.00	1.25	0.00
Avail Cap (c_a), veh/h	1650	0	587	0	1415	0	1198	0
Upstream Filter (I)	0.09	0.00	0.09	0.00	0.09	0.00	1.00	0.00
Uniform Delay (d1), s/veh	38.0	0.0	36.0	0.0	42.0	0.0	35.5	0.0
Incr Delay (d2), s/veh	1.3	0.0	1225.1	0.0	587.9	0.0	120.6	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	39.4	0.0	1261.1	0.0	629.9	0.0	156.1	0.0
1st-Term Q (Q1), veh/ln	16.1	0.0	19.4	0.0	15.6	0.0	19.8	0.0
2nd-Term Q (Q2), veh/ln	0.2	0.0	199.8	0.0	77.0	0.0	20.1	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	16.3	0.0	219.2	0.0	92.6	0.0	39.9	0.0
%ile Storage Ratio (RQ%)	0.04	0.00	1.26	0.00	0.12	0.00	0.22	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	399.4	0.0	461.8	0.0	75.6	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.9	0.0	0.6	0.0	0.3	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	16	0	18	0
Lane Assignment	R		T+R		R		R	
Lanes in Grp	1	0	1	0	1	0	1	0
Grp Vol (v), veh/h	243	0	2299	0	284	0	239	0
Grp Sat Flow (s), veh/h/ln	1468	0	1503	0	1468	0	1313	0
Q Serve Time (g_s), s	15.6	0.0	48.0	0.0	20.1	0.0	15.8	0.0
Cycle Q Clear Time (g_c), s	15.6	0.0	48.0	0.0	20.1	0.0	15.8	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.16	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	505	0	601	0	440	0	536	0
V/C Ratio (X)	0.48	0.00	3.83	0.00	0.64	0.00	0.45	0.00
Avail Cap (c_a), veh/h	514	0	601	0	440	0	536	0
Upstream Filter (I)	0.09	0.00	0.09	0.00	0.09	0.00	1.00	0.00
Uniform Delay (d1), s/veh	31.0	0.0	36.0	0.0	36.5	0.0	25.7	0.0
Incr Delay (d2), s/veh	0.3	0.0	1272.1	0.0	0.7	0.0	0.6	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	31.3	0.0	1308.1	0.0	37.1	0.0	26.3	0.0
1st-Term Q (Q1), veh/ln	6.3	0.0	19.9	0.0	8.1	0.0	5.7	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	212.4	0.0	0.1	0.0	0.1	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	6.4	0.0	232.2	0.0	8.2	0.0	5.8	0.0
%ile Storage Ratio (RQ%)	0.84	0.00	1.33	0.00	1.17	0.00	1.60	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	424.6	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0

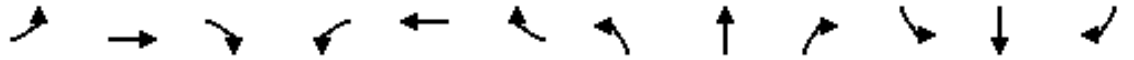
Intersection Summary	
HCM 2010 Ctrl Delay	702.8
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	317	3789	337	418	1381	220	796	1391	224	314	3001	261
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1545	1545	1900	1545	1545	1545	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	345	4118	366	454	1501	239	865	1512	243	341	3262	284
Adj No. of Lanes	2	2	0	2	2	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	23	23	23	23	23	23	10	10	10	10	10	10
Cap, veh/h	166	1092	96	190	1198	536	319	1620	505	180	1415	440
Arrive On Green	0.06	0.40	0.40	0.07	0.41	0.41	0.10	0.34	0.34	0.06	0.30	0.30
Sat Flow, veh/h	2854	2731	239	2854	2935	1313	3191	4715	1468	3191	4715	1468
Grp Volume(v), veh/h	345	2185	2299	454	1501	239	865	1512	243	341	3262	284
Grp Sat Flow(s),veh/h/ln	1427	1467	1503	1427	1467	1313	1596	1572	1468	1596	1572	1468
Q Serve(g_s), s	7.0	48.0	48.0	8.0	49.0	15.8	12.0	37.2	15.6	6.8	36.0	20.1
Cycle Q Clear(g_c), s	7.0	48.0	48.0	8.0	49.0	15.8	12.0	37.2	15.6	6.8	36.0	20.1
Prop In Lane	1.00		0.16	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	166	587	601	190	1198	536	319	1620	505	180	1415	440
V/C Ratio(X)	2.07	3.72	3.83	2.39	1.25	0.45	2.71	0.93	0.48	1.90	2.31	0.64
Avail Cap(c_a), veh/h	166	587	601	190	1198	536	319	1650	514	180	1415	440
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.09	0.09	0.09	1.00	1.00	1.00	0.09	0.09	0.09	0.09	0.09	0.09
Uniform Delay (d), s/veh	56.5	36.0	36.0	56.0	35.5	25.7	54.0	38.0	31.0	56.6	42.0	36.5
Incr Delay (d2), s/veh	484.4	1225.1	1272.1	639.6	120.6	0.6	770.5	1.3	0.3	405.3	587.9	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	14.0	219.2	232.2	20.0	39.9	5.8	39.4	16.3	6.4	13.1	92.6	8.2
LnGrp Delay(d),s/veh	540.9	1261.1	1308.1	695.6	156.1	26.3	824.5	39.4	31.3	461.9	629.9	37.1
LnGrp LOS	F	F	F	F	F	C	F	D	C	F	F	D
Approach Vol, veh/h		4829			2194			2620			3887	
Approach Delay, s/veh		1232.0			253.6			297.8			571.8	
Approach LOS		F			F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.8	45.2	12.0	52.0	16.0	40.0	11.0	53.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	6.0	42.0	8.0	48.0	12.0	36.0	7.0	49.0
Max Q Clear Time (g_c+I1), s	8.8	39.2	10.0	50.0	14.0	38.0	9.0	51.0
Green Ext Time (p_c), s	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	702.8
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	140	952	330	732	970	40	581	223	373	162	83	221
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	152	1035	359	796	1054	43	632	242	405	176	90	240
Adj No. of Lanes	2	2	1	2	2	1	2	2	2	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	266	1039	465	745	1532	685	585	596	469	347	351	157
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.08	0.32	0.32	0.23	0.47	0.47	0.18	0.18	0.18	0.11	0.11	0.11
Ln Grp Delay, s/veh	55.9	67.8	21.0	80.1	25.4	17.6	107.3	43.8	57.8	51.7	49.6	301.9
Ln Grp LOS	E	E	C	F	C	B	F	D	E	D	D	F
Approach Vol, veh/h		1546			1893			1279			506	
Approach Delay, s/veh		55.7			48.2			79.6			170.0	
Approach LOS		E			D			E			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	5	6	8	7
Case No	3.0	2.0	3.0	2.0	2.0	3.0	3.0	2.0
Phs Duration (G+Y+Rc), s	25.8	17.0	42.0	32.0	26.0	16.8	60.0	14.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	26.0	12.0	38.0	28.0	22.0	16.0	56.0	10.0
Max Allow Headway (MAH), s	4.2	4.2	4.1	4.1	4.1	4.2	4.0	4.1
Max Q Clear (g_c+I1), s	20.3	8.2	39.8	30.0	24.0	12.3	32.3	7.5
Green Ext Time (g_e), s	1.5	0.8	0.0	0.0	0.0	0.5	5.2	1.2
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.99
Prob of Max Out (p_x)	0.61	1.00	1.00	1.00	1.00	1.00	0.00	1.00

Left-Turn Movement Data								
Assigned Mvmt		1		3	5			7
Mvmt Sat Flow, veh/h		3191		3191	3191			3191

Through Movement Data								
Assigned Mvmt	2		4			6	8	
Mvmt Sat Flow, veh/h	3282		3282			3282	3282	

Right-Turn Movement Data								
Assigned Mvmt	12		14			16	18	
Mvmt Sat Flow, veh/h	2584		1468			1468	1468	

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	5	0	0	7
Lane Assignment		(Prot)		(Prot)	(Prot)			(Prot)
Lanes in Grp	0	2	0	2	2	0	0	2

Grp Vol (v), veh/h	0	176	0	796	632	0	0	152
Grp Sat Flow (s), veh/h/ln	0	1596	0	1596	1596	0	0	1596
Q Serve Time (g_s), s	0.0	6.2	0.0	28.0	22.0	0.0	0.0	5.5
Cycle Q Clear Time (g_c), s	0.0	6.2	0.0	28.0	22.0	0.0	0.0	5.5
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	347	0	745	585	0	0	266
V/C Ratio (X)	0.00	0.51	0.00	1.07	1.08	0.00	0.00	0.57
Avail Cap (c_a), veh/h	0	347	0	745	585	0	0	266
Upstream Filter (I)	0.00	1.00	0.00	0.09	0.86	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	50.4	0.0	46.0	49.0	0.0	0.0	52.9
Incr Delay (d2), s/veh	0.0	1.2	0.0	34.1	58.3	0.0	0.0	2.9
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	51.7	0.0	80.1	107.3	0.0	0.0	55.9
1st-Term Q (Q1), veh/ln	0.0	2.8	0.0	12.3	9.7	0.0	0.0	2.4
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	3.5	4.7	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	2.8	0.0	15.8	14.4	0.0	0.0	2.5
%ile Storage Ratio (RQ%)	0.00	0.48	0.00	2.22	2.04	0.00	0.00	0.32
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	12.8	11.7	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	0	6	8	0
Lane Assignment	T		T			T	T	
Lanes in Grp	2	0	2	0	0	2	2	0
Grp Vol (v), veh/h	242	0	1035	0	0	90	1054	0
Grp Sat Flow (s), veh/h/ln	1641	0	1641	0	0	1641	1641	0
Q Serve Time (g_s), s	7.8	0.0	37.8	0.0	0.0	3.0	30.3	0.0
Cycle Q Clear Time (g_c), s	7.8	0.0	37.8	0.0	0.0	3.0	30.3	0.0
Lane Grp Cap (c), veh/h	596	0	1039	0	0	351	1532	0
V/C Ratio (X)	0.41	0.00	1.00	0.00	0.00	0.26	0.69	0.00
Avail Cap (c_a), veh/h	711	0	1039	0	0	438	1532	0
Upstream Filter (I)	0.86	0.00	1.00	0.00	0.00	1.00	0.09	0.00
Uniform Delay (d1), s/veh	43.4	0.0	40.9	0.0	0.0	49.2	25.1	0.0
Incr Delay (d2), s/veh	0.4	0.0	26.9	0.0	0.0	0.4	0.2	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	43.8	0.0	67.8	0.0	0.0	49.6	25.4	0.0
1st-Term Q (Q1), veh/ln	3.6	0.0	17.1	0.0	0.0	1.4	13.6	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	3.9	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	3.6	0.0	21.0	0.0	0.0	1.4	13.7	0.0
%ile Storage Ratio (RQ%)	0.01	0.00	0.18	0.00	0.00	0.08	0.09	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

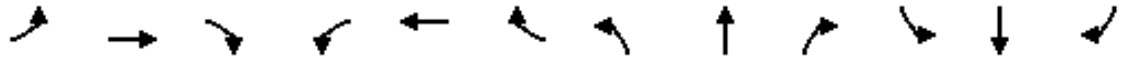
Right Lane Group Data								
Assigned Mvmt	12	0	14	0	0	16	18	0
Lane Assignment	R		R			R	R	
Lanes in Grp	2	0	1	0	0	1	1	0
Grp Vol (v), veh/h	405	0	359	0	0	240	43	0
Grp Sat Flow (s), veh/h/ln	1292	0	1468	0	0	1468	1468	0
Q Serve Time (g_s), s	18.3	0.0	15.8	0.0	0.0	10.3	1.9	0.0
Cycle Q Clear Time (g_c), s	18.3	0.0	15.8	0.0	0.0	10.3	1.9	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	1.00	0.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	469	0	465	0	0	157	685	0
V/C Ratio (X)	0.86	0.00	0.77	0.00	0.00	1.53	0.06	0.00
Avail Cap (c_a), veh/h	560	0	465	0	0	196	685	0
Upstream Filter (I)	0.86	0.00	1.00	0.00	0.00	1.00	0.09	0.00
Uniform Delay (d1), s/veh	47.7	0.0	13.2	0.0	0.0	34.5	17.6	0.0
Incr Delay (d2), s/veh	10.2	0.0	7.8	0.0	0.0	267.4	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	57.8	0.0	21.0	0.0	0.0	301.9	17.6	0.0
1st-Term Q (Q1), veh/ln	6.5	0.0	6.4	0.0	0.0	4.2	0.8	0.0
2nd-Term Q (Q2), veh/ln	0.7	0.0	1.0	0.0	0.0	11.7	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	7.2	0.0	7.4	0.0	0.0	15.8	0.8	0.0
%ile Storage Ratio (RQ%)	0.53	0.00	1.21	0.00	0.00	4.04	0.10	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	20.7	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	69.9
HCM 2010 LOS	E

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	140	952	330	732	970	40	581	223	373	162	83	221
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	152	1035	359	796	1054	43	632	242	405	176	90	240
Adj No. of Lanes	2	2	1	2	2	1	2	2	2	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	266	1039	465	745	1532	685	585	596	469	347	351	157
Arrive On Green	0.08	0.32	0.32	0.23	0.47	0.47	0.18	0.18	0.18	0.11	0.11	0.11
Sat Flow, veh/h	3191	3282	1468	3191	3282	1468	3191	3282	2584	3191	3282	1468
Grp Volume(v), veh/h	152	1035	359	796	1054	43	632	242	405	176	90	240
Grp Sat Flow(s),veh/h/ln	1596	1641	1468	1596	1641	1468	1596	1641	1292	1596	1641	1468
Q Serve(g_s), s	5.5	37.8	15.8	28.0	30.3	1.9	22.0	7.8	18.3	6.2	3.0	10.3
Cycle Q Clear(g_c), s	5.5	37.8	15.8	28.0	30.3	1.9	22.0	7.8	18.3	6.2	3.0	10.3
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	266	1039	465	745	1532	685	585	596	469	347	351	157
V/C Ratio(X)	0.57	1.00	0.77	1.07	0.69	0.06	1.08	0.41	0.86	0.51	0.26	1.53
Avail Cap(c_a), veh/h	266	1039	465	745	1532	685	585	711	560	347	438	196
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.09	0.09	0.09	0.86	0.86	0.86	1.00	1.00	1.00
Uniform Delay (d), s/veh	52.9	40.9	13.2	46.0	25.1	17.6	49.0	43.4	47.7	50.4	49.2	34.5
Incr Delay (d2), s/veh	2.9	26.9	7.8	34.1	0.2	0.0	58.3	0.4	10.2	1.2	0.4	267.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.5	21.0	7.4	15.8	13.7	0.8	14.4	3.6	7.2	2.8	1.4	15.8
LnGrp Delay(d),s/veh	55.9	67.8	21.0	80.1	25.4	17.6	107.3	43.8	57.8	51.7	49.6	301.9
LnGrp LOS	E	E	C	F	C	B	F	D	E	D	D	F
Approach Vol, veh/h		1546			1893			1279			506	
Approach Delay, s/veh		55.7			48.2			79.6			170.0	
Approach LOS		E			D			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	17.0	25.8	32.0	42.0	26.0	16.8	14.0	60.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	13.0	26.0	28.0	38.0	22.0	16.0	10.0	56.0
Max Q Clear Time (g_c+I1), s	8.2	20.3	30.0	39.8	24.0	12.3	7.5	32.3
Green Ext Time (p_c), s	0.8	1.5	0.0	0.0	0.0	0.5	1.2	5.2

Intersection Summary	
HCM 2010 Ctrl Delay	69.9
HCM 2010 LOS	E



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	966	875	793	618	2343	419	518	2272	306	1093	1105	1117
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	1050	951	862	672	2547	455	563	2470	333	1188	1201	1214
Adj No. of Lanes	2	3	1	2	3	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	452	1533	477	293	1297	404	358	1375	428	505	1593	496
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.14	0.32	0.32	0.09	0.28	0.28	0.11	0.29	0.29	0.16	0.34	0.34
Ln Grp Delay, s/veh	650.5	34.7	408.1	648.9	480.2	127.5	323.7	403.6	36.5	664.6	38.7	676.4
Ln Grp LOS	F	C	F	F	F	F	F	F	D	F	D	F
Approach Vol, veh/h		2863			3674			3366			3603	
Approach Delay, s/veh		372.9			467.4			353.9			459.9	
Approach LOS		F			F			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	6	5	7	8
Case No	2.0	3.0	3.0	2.0	3.0	2.0	2.0	3.0
Phs Duration (G+Y+Rc), s	23.0	39.0	43.0	15.0	44.5	17.5	21.0	37.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	19.0	35.0	39.0	11.0	44.0	10.0	17.0	33.0
Max Allow Headway (MAH), s	4.1	4.1	4.2	4.1	4.2	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	21.0	37.0	41.0	13.0	29.8	15.5	19.0	35.0
Green Ext Time (g_e), s	0.0	0.0	0.0	0.0	10.8	0.0	0.0	0.0
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prob of Max Out (p_x)	1.00	1.00	1.00	1.00	0.76	1.00	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt	1			3		5	7	
Mvmt Sat Flow, veh/h	3191			3191		3191	3191	

Through Movement Data								
Assigned Mvmt		2	4		6			8
Mvmt Sat Flow, veh/h		4715	4715		4715			4715

Right-Turn Movement Data								
Assigned Mvmt		12	14		16			18
Mvmt Sat Flow, veh/h		1468	1468		1468			1468

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	0	5	7	0
Lane Assignment	(Prot)			(Prot)		(Prot)	(Prot)	
Lanes in Grp	2	0	0	2	0	2	2	0

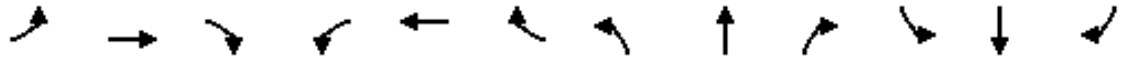
Grp Vol (v), veh/h	1188	0	0	672	0	563	1050	0
Grp Sat Flow (s), veh/h/ln	1596	0	0	1596	0	1596	1596	0
Q Serve Time (g_s), s	19.0	0.0	0.0	11.0	0.0	13.5	17.0	0.0
Cycle Q Clear Time (g_c), s	19.0	0.0	0.0	11.0	0.0	13.5	17.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	505	0	0	293	0	358	452	0
V/C Ratio (X)	2.35	0.00	0.00	2.30	0.00	1.57	2.32	0.00
Avail Cap (c_a), veh/h	505	0	0	293	0	358	452	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	1.00	0.56	0.00
Uniform Delay (d1), s/veh	50.5	0.0	0.0	54.5	0.0	53.3	51.5	0.0
Incr Delay (d2), s/veh	614.1	0.0	0.0	594.4	0.0	270.4	599.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	664.6	0.0	0.0	648.9	0.0	323.7	650.5	0.0
1st-Term Q (Q1), veh/ln	8.4	0.0	0.0	4.8	0.0	5.9	7.5	0.0
2nd-Term Q (Q2), veh/ln	43.1	0.0	0.0	24.2	0.0	13.5	37.6	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	51.5	0.0	0.0	29.0	0.0	19.4	45.1	0.0
%ile Storage Ratio (RQ%)	7.72	0.00	0.00	4.69	0.00	2.87	6.54	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	170.7	0.0	0.0	94.9	0.0	51.2	149.5	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.6	0.0	0.0	0.6	0.0	0.4	0.6	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	6	0	0	8
Lane Assignment		T	T		T			T
Lanes in Grp	0	3	3	0	3	0	0	3
Grp Vol (v), veh/h	0	2470	951	0	1201	0	0	2547
Grp Sat Flow (s), veh/h/ln	0	1572	1572	0	1572	0	0	1572
Q Serve Time (g_s), s	0.0	35.0	20.5	0.0	27.2	0.0	0.0	33.0
Cycle Q Clear Time (g_c), s	0.0	35.0	20.5	0.0	27.2	0.0	0.0	33.0
Lane Grp Cap (c), veh/h	0	1375	1533	0	1593	0	0	1297
V/C Ratio (X)	0.00	1.80	0.62	0.00	0.75	0.00	0.00	1.96
Avail Cap (c_a), veh/h	0	1375	1533	0	1729	0	0	1297
Upstream Filter (I)	0.00	1.00	0.56	0.00	1.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	42.5	34.2	0.0	35.3	0.0	0.0	43.5
Incr Delay (d2), s/veh	0.0	361.1	0.4	0.0	3.4	0.0	0.0	436.7
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	403.6	34.7	0.0	38.7	0.0	0.0	480.2
1st-Term Q (Q1), veh/ln	0.0	15.2	8.9	0.0	11.8	0.0	0.0	14.3
2nd-Term Q (Q2), veh/ln	0.0	46.0	0.1	0.0	0.5	0.0	0.0	52.4

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	61.1	9.0	0.0	12.3	0.0	0.0	66.7
%ile Storage Ratio (RQ%)	0.00	0.35	0.06	0.00	0.11	0.00	0.00	1.33
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	273.7	0.0	0.0	0.0	0.0	0.0	312.6
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.5

Right Lane Group Data								
Assigned Mvmt	0	12	14	0	16	0	0	18
Lane Assignment		R	R		R			R
Lanes in Grp	0	1	1	0	1	0	0	1
Grp Vol (v), veh/h	0	333	862	0	1214	0	0	455
Grp Sat Flow (s), veh/h/ln	0	1468	1468	0	1468	0	0	1468
Q Serve Time (g_s), s	0.0	19.4	39.0	0.0	27.8	0.0	0.0	33.0
Cycle Q Clear Time (g_c), s	0.0	19.4	39.0	0.0	27.8	0.0	0.0	33.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	428	477	0	496	0	0	404
V/C Ratio (X)	0.00	0.78	1.81	0.00	2.45	0.00	0.00	1.13
Avail Cap (c_a), veh/h	0	428	477	0	538	0	0	404
Upstream Filter (I)	0.00	1.00	0.56	0.00	1.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	23.5	40.5	0.0	18.7	0.0	0.0	43.5
Incr Delay (d2), s/veh	0.0	13.0	367.6	0.0	657.7	0.0	0.0	84.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	36.5	408.1	0.0	676.4	0.0	0.0	127.5
1st-Term Q (Q1), veh/ln	0.0	7.9	15.8	0.0	11.2	0.0	0.0	13.3
2nd-Term Q (Q2), veh/ln	0.0	1.5	48.7	0.0	90.6	0.0	0.0	9.4
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	9.4	64.5	0.0	101.8	0.0	0.0	22.8
%ile Storage Ratio (RQ%)	0.00	1.34	9.16	0.00	14.94	0.00	0.00	4.18
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	96.2	0.0	179.5	0.0	0.0	12.8
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.5	0.0	0.6	0.0	0.0	0.3

Intersection Summary	
HCM 2010 Ctrl Delay	417.1
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	966	875	793	618	2343	419	518	2272	306	1093	1105	1117
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	1050	951	862	672	2547	455	563	2470	333	1188	1201	1214
Adj No. of Lanes	2	3	1	2	3	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	452	1533	477	293	1297	404	358	1375	428	505	1593	496
Arrive On Green	0.14	0.32	0.32	0.09	0.28	0.28	0.11	0.29	0.29	0.16	0.34	0.34
Sat Flow, veh/h	3191	4715	1468	3191	4715	1468	3191	4715	1468	3191	4715	1468
Grp Volume(v), veh/h	1050	951	862	672	2547	455	563	2470	333	1188	1201	1214
Grp Sat Flow(s),veh/h/ln	1596	1572	1468	1596	1572	1468	1596	1572	1468	1596	1572	1468
Q Serve(g_s), s	17.0	20.5	39.0	11.0	33.0	33.0	13.5	35.0	19.4	19.0	27.2	27.8
Cycle Q Clear(g_c), s	17.0	20.5	39.0	11.0	33.0	33.0	13.5	35.0	19.4	19.0	27.2	27.8
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	452	1533	477	293	1297	404	358	1375	428	505	1593	496
V/C Ratio(X)	2.32	0.62	1.81	2.30	1.96	1.13	1.57	1.80	0.78	2.35	0.75	2.45
Avail Cap(c_a), veh/h	452	1533	477	293	1297	404	358	1375	428	505	1729	538
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.56	0.56	0.56	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	51.5	34.2	40.5	54.5	43.5	43.5	53.3	42.5	23.5	50.5	35.3	18.7
Incr Delay (d2), s/veh	599.0	0.4	367.6	594.4	436.7	84.0	270.4	361.1	13.0	614.1	3.4	657.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	45.1	9.0	64.5	29.0	66.7	22.8	19.4	61.1	9.4	51.5	12.3	101.8
LnGrp Delay(d),s/veh	650.5	34.7	408.1	648.9	480.2	127.5	323.7	403.6	36.5	664.6	38.7	676.4
LnGrp LOS	F	C	F	F	F	F	F	F	D	F	D	F
Approach Vol, veh/h		2863			3674			3366			3603	
Approach Delay, s/veh		372.9			467.4			353.9			459.9	
Approach LOS		F			F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	23.0	39.0	15.0	43.0	17.5	44.5	21.0	37.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	19.0	35.0	11.0	39.0	10.0	44.0	17.0	33.0
Max Q Clear Time (g_c+I1), s	12.1	37.0	13.0	41.0	15.5	29.8	19.0	35.0
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	10.8	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	417.1
HCM 2010 LOS	F

Intersection	
Int Delay, s/veh	0.1

Movement	NBL	NBT	NBR	SBL	SBT	SBR	SEL	SET	SER	NWL	NWT	NWR
Vol, veh/h	22	2048	0	0	542	65	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	0
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	24	2226	0	0	589	71	0	0	0	0	0	0

Major/Minor	Major1			Major2			Minor1		
Conflicting Flow All	660	0	0	2226	0	0	2898	2934	2226
Stage 1	-	-	-	-	-	-	2274	2274	-
Stage 2	-	-	-	-	-	-	624	660	-
Critical Hdwy	4.2	-	-	4.2	-	-	6.5	6.6	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	5.5	5.6	-
Critical Hdwy Stg 2	-	-	-	-	-	-	5.5	5.6	-
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.59	4.09	3.39
Pot Cap-1 Maneuver	891	-	-	219	-	-	16	14	52
Stage 1	-	-	-	-	-	-	79	72	-
Stage 2	-	-	-	-	-	-	519	448	-
Platoon blocked, %		-	-		-	-			
Mov Cap-1 Maneuver	891	-	-	219	-	-	16	0	52
Mov Cap-2 Maneuver	-	-	-	-	-	-	16	0	-
Stage 1	-	-	-	-	-	-	79	0	-
Stage 2	-	-	-	-	-	-	519	0	-

Approach	NB	SB	NW
HCM Control Delay, s	0.1	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBL	NBT	NBR	NWLn1	NWLn2	SBL	SBT	SBR
Capacity (veh/h)	891	-	-	-	-	219	-	-
HCM Lane V/C Ratio	0.027	-	-	-	-	-	-	-
HCM Control Delay (s)	9.2	0	-	0	0	0	-	-
HCM Lane LOS	A	A	-	A	A	A	-	-
HCM 95th %tile Q(veh)	0.1	-	-	-	-	0	-	-

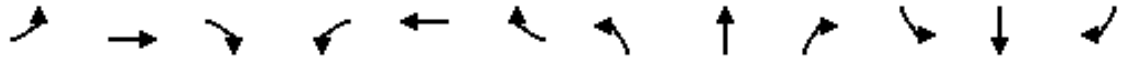
Intersection	
Int Delay, s/veh	0.4

Movement	WBL	WBR	NBL	NBT	NBR	SBL	SBT	SBR	SEL	SER
Vol, veh/h	0	0	0	1317	1	45	505	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	-	-	-	None	-	-	None	-	None
Storage Length	-	-	-	-	-	-	-	-	0	0
Veh in Median Storage, #	0	-	-	0	-	-	0	-	0	-
Grade, %	0	-	-	0	-	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	19	19	28	28	28	28	28	28	19	19
Mvmt Flow	0	0	0	1432	1	49	549	0	0	0

Major/Minor	Minor1		Major1			Major2			Minor2	
Conflicting Flow All	2079	1432	549	0	0	1433	0	0	2079	549
Stage 1	1432	-	-	-	-	-	-	-	647	-
Stage 2	647	-	-	-	-	-	-	-	1432	-
Critical Hdwy	7.29	6.39	4.38	-	-	4.38	-	-	7.29	6.39
Critical Hdwy Stg 1	6.29	-	-	-	-	-	-	-	6.29	-
Critical Hdwy Stg 2	6.29	-	-	-	-	-	-	-	6.29	-
Follow-up Hdwy	3.671	3.471	2.452	-	-	2.452	-	-	3.671	3.471
Pot Cap-1 Maneuver	35	151	902	-	-	402	-	-	35	504
Stage 1	153	-	-	-	-	-	-	-	432	-
Stage 2	432	-	-	-	-	-	-	-	153	-
Platoon blocked, %				-	-		-	-		
Mov Cap-1 Maneuver	30	151	902	-	-	402	-	-	30	504
Mov Cap-2 Maneuver	30	-	-	-	-	-	-	-	30	-
Stage 1	153	-	-	-	-	-	-	-	432	-
Stage 2	356	-	-	-	-	-	-	-	153	-

Approach	WB	NB	SB	SE
HCM Control Delay, s	0	0	1.2	0
HCM LOS	A			A

Minor Lane/Major Mvmt	NBL	NBT	NBR	WBLn1	SELn1	SELn2	SBL	SBT	SBR
Capacity (veh/h)	902	-	-	-	-	-	402	-	-
HCM Lane V/C Ratio	-	-	-	-	-	-	0.122	-	-
HCM Control Delay (s)	0	-	-	0	0	0	15.2	0	-
HCM Lane LOS	A	-	-	A	A	A	C	A	-
HCM 95th %tile Q(veh)	0	-	-	-	-	-	0.4	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	263	602	13	14	125	219	5	196	14	94	82	61
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	286	654	14	15	136	238	5	213	15	102	89	66
Adj No. of Lanes	2	2	0	1	2	1	2	2	1	2	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	358	749	16	113	607	271	1591	1711	765	154	123	104
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.11	0.23	0.23	0.07	0.18	0.18	0.50	0.52	0.52	0.05	0.07	0.07
Ln Grp Delay, s/veh	56.1	51.8	51.6	52.7	41.7	53.2	15.1	14.8	7.2	58.0	68.1	46.2
Ln Grp LOS	E	D	D	D	D	D	B	B	A	E	E	D
Approach Vol, veh/h		954			389			233			257	
Approach Delay, s/veh		53.0			49.2			14.4			58.5	
Approach LOS		D			D			B			E	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	6	5	7	8
Case No	2.0	3.0	4.0	2.0	3.0	2.0	2.0	3.0
Phs Duration (G+Y+Rc), s	9.8	66.6	31.4	12.3	12.5	63.8	17.5	26.2
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	17.0	26.0	46.0	15.0	29.0	14.0	27.0	34.0
Max Allow Headway (MAH), s	4.1	4.0	4.0	4.2	4.2	4.0	4.1	4.2
Max Q Clear (g_c+I1), s	5.8	6.0	25.0	3.0	8.1	2.1	12.5	20.9
Green Ext Time (g_e), s	0.2	0.8	2.3	1.2	0.5	0.7	1.0	1.3
Prob of Phs Call (p_c)	0.97	1.00	1.00	0.39	1.00	0.15	1.00	1.00
Prob of Max Out (p_x)	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.02

Left-Turn Movement Data								
Assigned Mvmt	1			3		5	7	
Mvmt Sat Flow, veh/h	3191			1645		3191	3191	

Through Movement Data								
Assigned Mvmt		2	4		6			8
Mvmt Sat Flow, veh/h		3282	3285		1727			3282

Right-Turn Movement Data								
Assigned Mvmt		12	14		16			18
Mvmt Sat Flow, veh/h		1468	70		1468			1468

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	0	5	7	0
Lane Assignment	(Prot)			(Prot)		(Prot)	(Prot)	
Lanes in Grp	2	0	0	1	0	2	2	0

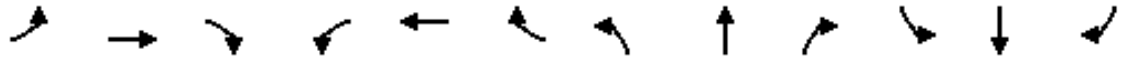
Grp Vol (v), veh/h	102	0	0	15	0	5	286	0
Grp Sat Flow (s), veh/h/ln	1596	0	0	1645	0	1596	1596	0
Q Serve Time (g_s), s	3.8	0.0	0.0	1.0	0.0	0.1	10.5	0.0
Cycle Q Clear Time (g_c), s	3.8	0.0	0.0	1.0	0.0	0.1	10.5	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	154	0	0	113	0	1591	358	0
V/C Ratio (X)	0.66	0.00	0.00	0.13	0.00	0.00	0.80	0.00
Avail Cap (c_a), veh/h	452	0	0	206	0	1591	718	0
Upstream Filter (I)	0.39	0.00	0.00	0.40	0.00	1.00	1.00	0.00
Uniform Delay (d1), s/veh	56.1	0.0	0.0	52.5	0.0	15.1	52.0	0.0
Incr Delay (d2), s/veh	1.9	0.0	0.0	0.2	0.0	0.0	4.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	58.0	0.0	0.0	52.7	0.0	15.1	56.1	0.0
1st-Term Q (Q1), veh/ln	1.7	0.0	0.0	0.5	0.0	0.0	4.6	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	1.7	0.0	0.0	0.5	0.0	0.0	4.8	0.0
%ile Storage Ratio (RQ%)	0.23	0.00	0.00	0.06	0.00	0.01	0.91	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	6	0	0	8
Lane Assignment		T	T		T			T
Lanes in Grp	0	2	1	0	1	0	0	2
Grp Vol (v), veh/h	0	213	327	0	89	0	0	136
Grp Sat Flow (s), veh/h/ln	0	1641	1641	0	1727	0	0	1641
Q Serve Time (g_s), s	0.0	4.0	23.0	0.0	6.1	0.0	0.0	4.2
Cycle Q Clear Time (g_c), s	0.0	4.0	23.0	0.0	6.1	0.0	0.0	4.2
Lane Grp Cap (c), veh/h	0	1711	374	0	123	0	0	607
V/C Ratio (X)	0.00	0.12	0.87	0.00	0.73	0.00	0.00	0.22
Avail Cap (c_a), veh/h	0	1711	629	0	417	0	0	930
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.39	0.00	0.00	0.40
Uniform Delay (d1), s/veh	0.0	14.7	44.6	0.0	54.6	0.0	0.0	41.6
Incr Delay (d2), s/veh	0.0	0.1	7.2	0.0	13.5	0.0	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	14.8	51.8	0.0	68.1	0.0	0.0	41.7
1st-Term Q (Q1), veh/ln	0.0	1.8	10.4	0.0	2.9	0.0	0.0	1.9
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.7	0.0	0.5	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.8	11.2	0.0	3.4	0.0	0.0	1.9
%ile Storage Ratio (RQ%)	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	14	0	16	0	0	18
Lane Assignment		R	T+R		R			R
Lanes in Grp	0	1	1	0	1	0	0	1
Grp Vol (v), veh/h	0	15	341	0	66	0	0	238
Grp Sat Flow (s), veh/h/ln	0	1468	1715	0	1468	0	0	1468
Q Serve Time (g_s), s	0.0	0.4	23.0	0.0	4.2	0.0	0.0	18.9
Cycle Q Clear Time (g_c), s	0.0	0.4	23.0	0.0	4.2	0.0	0.0	18.9
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.04	0.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	765	391	0	104	0	0	271
V/C Ratio (X)	0.00	0.02	0.87	0.00	0.63	0.00	0.00	0.88
Avail Cap (c_a), veh/h	0	765	657	0	355	0	0	416
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.39	0.00	0.00	0.40
Uniform Delay (d1), s/veh	0.0	7.1	44.6	0.0	35.4	0.0	0.0	47.6
Incr Delay (d2), s/veh	0.0	0.0	7.0	0.0	10.8	0.0	0.0	5.7
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	7.2	51.6	0.0	46.2	0.0	0.0	53.2
1st-Term Q (Q1), veh/ln	0.0	0.2	10.9	0.0	1.7	0.0	0.0	7.7
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.8	0.0	0.3	0.0	0.0	0.4
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.2	11.7	0.0	2.0	0.0	0.0	8.1
%ile Storage Ratio (RQ%)	0.00	0.03	0.01	0.00	0.30	0.00	0.00	1.05
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	48.1
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	263	602	13	14	125	219	5	196	14	94	82	61
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	286	654	14	15	136	238	5	213	15	102	89	66
Adj No. of Lanes	2	2	0	1	2	1	2	2	1	2	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	358	749	16	113	607	271	1591	1711	765	154	123	104
Arrive On Green	0.11	0.23	0.23	0.07	0.18	0.18	0.50	0.52	0.52	0.05	0.07	0.07
Sat Flow, veh/h	3191	3285	70	1645	3282	1468	3191	3282	1468	3191	1727	1468
Grp Volume(v), veh/h	286	327	341	15	136	238	5	213	15	102	89	66
Grp Sat Flow(s),veh/h/ln	1596	1641	1715	1645	1641	1468	1596	1641	1468	1596	1727	1468
Q Serve(g_s), s	10.5	23.0	23.0	1.0	4.2	18.9	0.1	4.0	0.4	3.8	6.1	4.2
Cycle Q Clear(g_c), s	10.5	23.0	23.0	1.0	4.2	18.9	0.1	4.0	0.4	3.8	6.1	4.2
Prop In Lane	1.00		0.04	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	358	374	391	113	607	271	1591	1711	765	154	123	104
V/C Ratio(X)	0.80	0.87	0.87	0.13	0.22	0.88	0.00	0.12	0.02	0.66	0.73	0.63
Avail Cap(c_a), veh/h	718	629	657	206	930	416	1591	1711	765	452	417	355
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.40	0.40	0.40	1.00	1.00	1.00	0.39	0.39	0.39
Uniform Delay (d), s/veh	52.0	44.6	44.6	52.5	41.6	47.6	15.1	14.7	7.1	56.1	54.6	35.4
Incr Delay (d2), s/veh	4.1	7.2	7.0	0.2	0.1	5.7	0.0	0.1	0.0	1.9	13.5	10.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.8	11.2	11.7	0.5	1.9	8.1	0.0	1.8	0.2	1.7	3.4	2.0
LnGrp Delay(d),s/veh	56.1	51.8	51.6	52.7	41.7	53.2	15.1	14.8	7.2	58.0	68.1	46.2
LnGrp LOS	E	D	D	D	D	D	B	B	A	E	E	D
Approach Vol, veh/h		954			389			233			257	
Approach Delay, s/veh		53.0			49.2			14.4			58.5	
Approach LOS		D			D			B			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.8	66.6	12.3	31.4	63.8	12.5	17.5	26.2
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	17.0	26.0	15.0	46.0	14.0	29.0	27.0	34.0
Max Q Clear Time (g_c+I1), s	5.8	6.0	3.0	25.0	2.1	8.1	12.5	20.9
Green Ext Time (p_c), s	0.2	0.8	1.2	2.3	0.7	0.5	1.0	1.3

Intersection Summary	
HCM 2010 Ctrl Delay	48.1
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	141	217	125	51	321	88	77	446	29	75	283	138
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	153	236	136	55	349	96	84	485	32	82	308	150
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	183	363	209	69	370	102	284	513	34	250	329	160
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.11	0.35	0.35	0.04	0.28	0.28	0.17	0.32	0.32	0.15	0.30	0.30
Ln Grp Delay, s/veh	67.3	0.0	34.1	70.0	0.0	61.4	43.9	0.0	66.7	46.2	0.0	68.5
Ln Grp LOS	E		C	E		E	D		E	D		E
Approach Vol, veh/h		525			500			601			540	
Approach Delay, s/veh		43.8			62.4			63.5			65.1	
Approach LOS		D			E			E			E	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	6	5	8	7
Case No	4.0	2.0	2.0	4.0	4.0	2.0	4.0	2.0
Phs Duration (G+Y+Rc), s	42.4	22.2	9.0	46.3	39.9	24.7	38.0	17.3
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	43.0	9.0	9.0	43.0	43.0	9.0	37.0	15.0
Max Allow Headway (MAH), s	4.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	37.4	7.3	6.0	25.1	34.8	7.3	33.4	12.9
Green Ext Time (g_e), s	1.0	0.0	0.0	1.8	1.2	0.1	0.6	0.5
Prob of Phs Call (p_c)	1.00	0.93	0.84	1.00	1.00	0.94	1.00	0.99
Prob of Max Out (p_x)	0.55	1.00	1.00	0.01	0.19	1.00	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt		1	3			5		7
Mvmt Sat Flow, veh/h		1645	1645			1645		1645

Through Movement Data								
Assigned Mvmt	2			4	6		8	
Mvmt Sat Flow, veh/h	1603			1029	1098		1305	

Right-Turn Movement Data								
Assigned Mvmt	12			14	16		18	
Mvmt Sat Flow, veh/h	106			593	535		359	

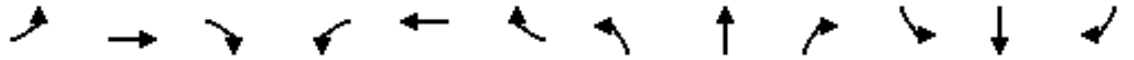
Left Lane Group Data								
Assigned Mvmt	0	1	3	0	0	5	0	7
Lane Assignment		(Prot)	(Prot)			(Prot)		(Prot)
Lanes in Grp	0	1	1	0	0	1	0	1

Grp Vol (v), veh/h	0	82	55	0	0	84	0	153
Grp Sat Flow (s), veh/h/ln	0	1645	1645	0	0	1645	0	1645
Q Serve Time (g_s), s	0.0	5.3	4.0	0.0	0.0	5.3	0.0	10.9
Cycle Q Clear Time (g_c), s	0.0	5.3	4.0	0.0	0.0	5.3	0.0	10.9
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	250	69	0	0	284	0	183
V/C Ratio (X)	0.00	0.33	0.80	0.00	0.00	0.30	0.00	0.84
Avail Cap (c_a), veh/h	0	250	123	0	0	284	0	206
Upstream Filter (I)	0.00	1.00	0.68	0.00	0.00	1.00	0.00	0.60
Uniform Delay (d1), s/veh	0.0	45.4	57.0	0.0	0.0	43.3	0.0	52.3
Incr Delay (d2), s/veh	0.0	0.8	13.0	0.0	0.0	0.6	0.0	15.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	46.2	70.0	0.0	0.0	43.9	0.0	67.3
1st-Term Q (Q1), veh/ln	0.0	2.4	1.8	0.0	0.0	2.4	0.0	5.0
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.3	0.0	0.0	0.0	0.0	0.8
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	2.5	2.1	0.0	0.0	2.5	0.0	5.7
%ile Storage Ratio (RQ%)	0.00	0.49	0.40	0.00	0.00	0.48	0.00	1.14
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	6	0	8	0
Lane Assignment								
Lanes in Grp	0	0	0	0	0	0	0	0
Grp Vol (v), veh/h	0	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	0	14	16	0	18	0
Lane Assignment	T+R			T+R	T+R		T+R	
Lanes in Grp	1	0	0	1	1	0	1	0
Grp Vol (v), veh/h	517	0	0	372	458	0	445	0
Grp Sat Flow (s), veh/h/ln	1709	0	0	1623	1633	0	1664	0
Q Serve Time (g_s), s	35.4	0.0	0.0	23.1	32.8	0.0	31.4	0.0
Cycle Q Clear Time (g_c), s	35.4	0.0	0.0	23.1	32.8	0.0	31.4	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.06	0.00	0.00	0.37	0.33	0.00	0.22	0.00
Lane Grp Cap (c), veh/h	547	0	0	572	489	0	472	0
V/C Ratio (X)	0.94	0.00	0.00	0.65	0.94	0.00	0.94	0.00
Avail Cap (c_a), veh/h	612	0	0	581	585	0	513	0
Upstream Filter (I)	1.00	0.00	0.00	0.60	1.00	0.00	0.68	0.00
Uniform Delay (d1), s/veh	39.7	0.0	0.0	32.6	40.9	0.0	42.0	0.0
Incr Delay (d2), s/veh	27.0	0.0	0.0	1.5	27.6	0.0	19.4	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	66.7	0.0	0.0	34.1	68.5	0.0	61.4	0.0
1st-Term Q (Q1), veh/ln	16.7	0.0	0.0	10.3	14.8	0.0	14.5	0.0
2nd-Term Q (Q2), veh/ln	4.1	0.0	0.0	0.2	3.7	0.0	2.5	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	20.8	0.0	0.0	10.6	18.5	0.0	17.0	0.0
%ile Storage Ratio (RQ%)	0.05	0.00	0.00	0.05	0.05	0.00	0.09	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

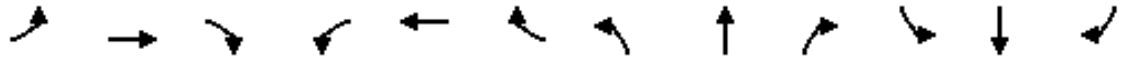
Intersection Summary	
HCM 2010 Ctrl Delay	58.9
HCM 2010 LOS	E



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	141	217	125	51	321	88	77	446	29	75	283	138
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	153	236	136	55	349	96	84	485	32	82	308	150
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	183	363	209	69	370	102	284	513	34	250	329	160
Arrive On Green	0.11	0.35	0.35	0.04	0.28	0.28	0.17	0.32	0.32	0.15	0.30	0.30
Sat Flow, veh/h	1645	1029	593	1645	1305	359	1645	1603	106	1645	1098	535
Grp Volume(v), veh/h	153	0	372	55	0	445	84	0	517	82	0	458
Grp Sat Flow(s),veh/h/ln	1645	0	1623	1645	0	1664	1645	0	1709	1645	0	1633
Q Serve(g_s), s	10.9	0.0	23.1	4.0	0.0	31.4	5.3	0.0	35.4	5.3	0.0	32.8
Cycle Q Clear(g_c), s	10.9	0.0	23.1	4.0	0.0	31.4	5.3	0.0	35.4	5.3	0.0	32.8
Prop In Lane	1.00		0.37	1.00		0.22	1.00		0.06	1.00		0.33
Lane Grp Cap(c), veh/h	183	0	572	69	0	472	284	0	547	250	0	489
V/C Ratio(X)	0.84	0.00	0.65	0.80	0.00	0.94	0.30	0.00	0.94	0.33	0.00	0.94
Avail Cap(c_a), veh/h	206	0	581	123	0	513	284	0	612	250	0	585
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.60	0.00	0.60	0.68	0.00	0.68	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	52.3	0.0	32.6	57.0	0.0	42.0	43.3	0.0	39.7	45.4	0.0	40.9
Incr Delay (d2), s/veh	15.0	0.0	1.5	13.0	0.0	19.4	0.6	0.0	27.0	0.8	0.0	27.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.7	0.0	10.6	2.1	0.0	17.0	2.5	0.0	20.8	2.5	0.0	18.5
LnGrp Delay(d),s/veh	67.3	0.0	34.1	70.0	0.0	61.4	43.9	0.0	66.7	46.2	0.0	68.5
LnGrp LOS	E		C	E		E	D		E	D		E
Approach Vol, veh/h		525			500			601			540	
Approach Delay, s/veh		43.8			62.4			63.5			65.1	
Approach LOS		D			E			E			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	22.2	42.4	9.0	46.3	24.7	39.9	17.3	38.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	9.0	43.0	9.0	43.0	9.0	43.0	15.0	37.0
Max Q Clear Time (g_c+I1), s	7.3	37.4	6.0	25.1	7.3	34.8	12.9	33.4
Green Ext Time (p_c), s	0.0	1.0	0.0	1.8	0.1	1.2	0.5	0.6

Intersection Summary	
HCM 2010 Ctrl Delay	58.9
HCM 2010 LOS	E



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	128	916	21	19	551	519	5	236	38	459	183	62
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1900	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	139	996	23	21	599	564	5	257	41	499	199	67
Adj No. of Lanes	1	1	0	1	1	1	0	1	0	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	142	785	18	60	806	685	34	675	106	462	806	685
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
Ln Grp Delay, s/veh	112.1	0.0	160.4	63.4	29.9	35.7	22.0	0.0	0.0	78.3	19.4	17.9
Ln Grp LOS	F		F	E	C	D	C			F	B	B
Approach Vol, veh/h		1158			1184			303			765	
Approach Delay, s/veh		154.6			33.3			22.0			57.7	
Approach LOS		F			C			C			E	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Case No		8.0		6.0		5.0		5.0
Phs Duration (G+Y+Rc), s		60.0		60.0		60.0		60.0
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green (Gmax), s		56.0		56.0		56.0		56.0
Max Allow Headway (MAH), s		4.6		4.4		4.6		4.4
Max Q Clear (g_c+I1), s		16.0		58.0		58.0		58.0
Green Ext Time (g_e), s		5.9		0.0		0.0		0.0
Prob of Phs Call (p_c)		1.00		1.00		1.00		1.00
Prob of Max Out (p_x)		0.01		1.00		1.00		1.00

Left-Turn Movement Data								
Assigned Mvmt		5		7		1		3
Mvmt Sat Flow, veh/h		8		446		999		511

Through Movement Data								
Assigned Mvmt		2		4		6		8
Mvmt Sat Flow, veh/h		1447		1682		1727		1727

Right-Turn Movement Data								
Assigned Mvmt		12		14		16		18
Mvmt Sat Flow, veh/h		228		39		1468		1468

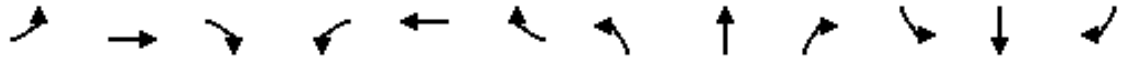
Left Lane Group Data								
Assigned Mvmt	0	5	0	7	0	1	0	3
Lane Assignment		L+T+R						
Lanes in Grp	0	1	0	1	0	1	0	1

Grp Vol (v), veh/h	0	303	0	139	0	499	0	21
Grp Sat Flow (s), veh/h/ln	0	1682	0	446	0	999	0	511
Q Serve Time (g_s), s	0.0	0.0	0.0	22.0	0.0	42.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	14.0	0.0	56.0	0.0	56.0	0.0	56.0
Perm LT Sat Flow (s_l), veh/h/ln	0	1131	0	446	0	999	0	511
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	455	0	0
Perm LT Eff Green (g_p), s	0.0	56.0	0.0	56.0	0.0	56.0	0.0	56.0
Perm LT Serve Time (g_u), s	0.0	47.7	0.0	22.0	0.0	42.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	22.0	0.0	42.0	0.0	0.0
Time to First Blk (g_f), s	0.0	40.4	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	14.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.02	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	815	0	142	0	462	0	60
V/C Ratio (X)	0.00	0.37	0.00	0.98	0.00	1.08	0.00	0.35
Avail Cap (c_a), veh/h	0	815	0	142	0	462	0	60
Upstream Filter (I)	0.00	0.95	0.00	0.73	0.00	0.09	0.00	1.00
Uniform Delay (d1), s/veh	0.0	20.8	0.0	53.5	0.0	38.5	0.0	60.0
Incr Delay (d2), s/veh	0.0	1.2	0.0	58.5	0.0	39.8	0.0	3.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	22.0	0.0	112.1	0.0	78.3	0.0	63.4
1st-Term Q (Q1), veh/ln	0.0	6.5	0.0	4.6	0.0	15.3	0.0	0.7
2nd-Term Q (Q2), veh/ln	0.0	0.3	0.0	2.3	0.0	5.1	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	6.8	0.0	6.9	0.0	20.4	0.0	0.8
%ile Storage Ratio (RQ%)	0.00	0.02	0.00	1.08	0.00	2.99	0.00	0.13
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	9.1	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	0	8
Lane Assignment						T		T
Lanes in Grp	0	0	0	0	0	1	0	1
Grp Vol (v), veh/h	0	0	0	0	0	199	0	599
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	1727	0	1727
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	8.3	0.0	34.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	8.3	0.0	34.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	806	0	806
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.74
Avail Cap (c_a), veh/h	0	0	0	0	0	806	0	806
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.09	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	19.3	0.0	26.1
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.1	0.0	3.7
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	19.4	0.0	29.9
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	4.0	0.0	16.1
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	4.0	0.0	17.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.11
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	0	18
Lane Assignment				T+R		R		R
Lanes in Grp	0	0	0	1	0	1	0	1
Grp Vol (v), veh/h	0	0	0	1019	0	67	0	564
Grp Sat Flow (s), veh/h/ln	0	0	0	1720	0	1468	0	1468
Q Serve Time (g_s), s	0.0	0.0	0.0	56.0	0.0	3.1	0.0	39.9
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	56.0	0.0	3.1	0.0	39.9
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.14	0.00	0.02	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	0	0	803	0	685	0	685
V/C Ratio (X)	0.00	0.00	0.00	1.27	0.00	0.10	0.00	0.82
Avail Cap (c_a), veh/h	0	0	0	803	0	685	0	685
Upstream Filter (I)	0.00	0.00	0.00	0.73	0.00	0.09	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	32.0	0.0	17.9	0.0	27.7
Incr Delay (d2), s/veh	0.0	0.0	0.0	128.4	0.0	0.0	0.0	8.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	160.4	0.0	17.9	0.0	35.7
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	26.5	0.0	1.2	0.0	16.1
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	28.6	0.0	0.0	0.0	1.5
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	55.2	0.0	1.3	0.0	17.7
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.29	0.00	0.10	0.00	1.47
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	54.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	79.0
HCM 2010 LOS	E



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	128	916	21	19	551	519	5	236	38	459	183	62
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1900	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	139	996	23	21	599	564	5	257	41	499	199	67
Adj No. of Lanes	1	1	0	1	1	1	0	1	0	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	142	785	18	60	806	685	34	675	106	462	806	685
Arrive On Green	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
Sat Flow, veh/h	446	1682	39	511	1727	1468	8	1447	228	999	1727	1468
Grp Volume(v), veh/h	139	0	1019	21	599	564	303	0	0	499	199	67
Grp Sat Flow(s),veh/h/ln	446	0	1720	511	1727	1468	1682	0	0	999	1727	1468
Q Serve(g_s), s	22.0	0.0	56.0	0.0	34.0	39.9	0.0	0.0	0.0	42.0	8.3	3.1
Cycle Q Clear(g_c), s	56.0	0.0	56.0	56.0	34.0	39.9	14.0	0.0	0.0	56.0	8.3	3.1
Prop In Lane	1.00		0.02	1.00		1.00	0.02		0.14	1.00		1.00
Lane Grp Cap(c), veh/h	142	0	803	60	806	685	815	0	0	462	806	685
V/C Ratio(X)	0.98	0.00	1.27	0.35	0.74	0.82	0.37	0.00	0.00	1.08	0.25	0.10
Avail Cap(c_a), veh/h	142	0	803	60	806	685	815	0	0	462	806	685
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.73	0.00	0.73	1.00	1.00	1.00	0.95	0.00	0.00	0.09	0.09	0.09
Uniform Delay (d), s/veh	53.5	0.0	32.0	60.0	26.1	27.7	20.8	0.0	0.0	38.5	19.3	17.9
Incr Delay (d2), s/veh	58.5	0.0	128.4	3.4	3.7	8.0	1.2	0.0	0.0	39.8	0.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.9	0.0	55.2	0.8	17.0	17.7	6.8	0.0	0.0	20.4	4.0	1.3
LnGrp Delay(d),s/veh	112.1	0.0	160.4	63.4	29.9	35.7	22.0	0.0	0.0	78.3	19.4	17.9
LnGrp LOS	F		F	E	C	D	C			F	B	B
Approach Vol, veh/h		1158			1184			303			765	
Approach Delay, s/veh		154.6			33.3			22.0			57.7	
Approach LOS		F			C			C			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Phs Duration (G+Y+Rc), s		60.0		60.0		60.0		60.0
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green Setting (Gmax), s		56.0		56.0		56.0		56.0
Max Q Clear Time (g_c+I1), s		16.0		58.0		58.0		58.0
Green Ext Time (p_c), s		5.9		0.0		0.0		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	79.0
HCM 2010 LOS	E

Intersection	
Int Delay, s/veh	23.7

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	0	968	429	0	139	30
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	19	19	19	19	10	10
Mvmt Flow	0	1052	466	0	151	33

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	466	0	-	0	1518	466
Stage 1	-	-	-	-	466	-
Stage 2	-	-	-	-	1052	-
Critical Hdwy	4.29	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.371	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1012	-	-	-	~ 126	580
Stage 1	-	-	-	-	615	-
Stage 2	-	-	-	-	325	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1012	-	-	-	~ 126	580
Mov Cap-2 Maneuver	-	-	-	-	~ 126	-
Stage 1	-	-	-	-	615	-
Stage 2	-	-	-	-	325	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	219.4
HCM LOS			F

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1012	-	-	-	146
HCM Lane V/C Ratio	-	-	-	-	1.258
HCM Control Delay (s)	0	-	-	-	219.4
HCM Lane LOS	A	-	-	-	F
HCM 95th %tile Q(veh)	0	-	-	-	11

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	WBT	WBR	SEL	SER
Vol, veh/h	0	1273	0	70	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	19	19	19	19	10	10
Mvmt Flow	0	1384	0	76	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	76	0	-	0	1422	38
Stage 1	-	-	-	-	38	-
Stage 2	-	-	-	-	1384	-
Critical Hdwy	4.29	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.371	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1422	-	-	-	144	1012
Stage 1	-	-	-	-	964	-
Stage 2	-	-	-	-	223	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1422	-	-	-	144	1012
Mov Cap-2 Maneuver	-	-	-	-	144	-
Stage 1	-	-	-	-	964	-
Stage 2	-	-	-	-	223	-

Approach	EB	WB	SE
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SELn1
Capacity (veh/h)	1422	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	-	-	0
HCM Lane LOS	A	-	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	-

Intersection	
Int Delay, s/veh	47.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	145	919	0	5	438	113	0	5	8	69	7	52
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	492	-	-	499	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	22	22	22	22	22	22	10	10	10	10	10	10
Mvmt Flow	158	999	0	5	476	123	0	5	9	75	8	57

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	599	0	0	999	0	0	1894	1924	999	1869	1862	538
Stage 1	-	-	-	-	-	-	1314	1314	-	548	548	-
Stage 2	-	-	-	-	-	-	580	610	-	1321	1314	-
Critical Hdwy	4.32	-	-	4.32	-	-	7.2	6.6	6.3	7.2	6.6	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Follow-up Hdwy	2.398	-	-	2.398	-	-	3.59	4.09	3.39	3.59	4.09	3.39
Pot Cap-1 Maneuver	887	-	-	620	-	-	51	64	285	~ 53	70	528
Stage 1	-	-	-	-	-	-	187	220	-	507	504	-
Stage 2	-	-	-	-	-	-	486	472	-	185	220	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	887	-	-	620	-	-	35	52	285	~ 41	57	528
Mov Cap-2 Maneuver	-	-	-	-	-	-	35	52	-	~ 41	57	-
Stage 1	-	-	-	-	-	-	154	181	-	417	500	-
Stage 2	-	-	-	-	-	-	424	468	-	143	181	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	1.4	0.1	44.5	$ 630.9
HCM LOS			E	F

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	105	887	-	-	620	-	-	67
HCM Lane V/C Ratio	0.135	0.178	-	-	0.009	-	-	2.077
HCM Control Delay (s)	44.5	9.9	-	-	10.9	-	-	$ 630.9
HCM Lane LOS	E	A	-	-	B	-	-	F
HCM 95th %tile Q(veh)	0.4	0.6	-	-	0	-	-	13

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Intersection	
Int Delay, s/veh	132.4

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	65	1646	797	165	98	19
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	104	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	23	23	23	23	10	10
Mvmt Flow	71	1789	866	179	107	21

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	1046	0	-	0	2886	956
Stage 1	-	-	-	-	956	-
Stage 2	-	-	-	-	1930	-
Critical Hdwy	4.33	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.407	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	591	-	-	-	~ 17	302
Stage 1	-	-	-	-	361	-
Stage 2	-	-	-	-	118	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	591	-	-	-	~ 15	302
Mov Cap-2 Maneuver	-	-	-	-	~ 15	-
Stage 1	-	-	-	-	361	-
Stage 2	-	-	-	-	~ 104	-

Approach	EB	WB	SB
HCM Control Delay, s	0.5	0	$ 3150.2
HCM LOS			F

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	591	-	-	-	18
HCM Lane V/C Ratio	0.12	-	-	-	7.065
HCM Control Delay (s)	11.9	-	-	$	3150.2
HCM Lane LOS	B	-	-	-	F
HCM 95th %tile Q(veh)	0.4	-	-	-	16.5

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	184	1182	28	15	475	92	20	67	9	88	80	80
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1624	1624	1900	1624	1624	1624	1900	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	200	1285	30	16	516	100	22	73	10	96	87	87
Adj No. of Lanes	1	1	0	1	1	1	0	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	17	17	17	17	17	17	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	572	1109	26	22	561	477	73	202	25	129	90	82
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.37	0.70	0.70	0.01	0.35	0.35	0.17	0.17	0.17	0.17	0.17	0.17
Ln Grp Delay, s/veh	24.4	0.0	97.5	88.4	44.4	24.6	39.4	0.0	0.0	71.2	0.0	0.0
Ln Grp LOS	C		F	F	D	C	D			E		
Approach Vol, veh/h		1515			632			105			270	
Approach Delay, s/veh		87.8			42.4			39.4			71.2	
Approach LOS		F			D			D			E	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6	8	7
Case No		8.0	2.0	4.0		8.0	3.0	2.0
Phs Duration (G+Y+Rc), s		22.0	5.5	78.0		22.0	40.5	43.0
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0	4.0	4.0
Max Green (Gmax), s		18.0	4.0	74.0		18.0	54.0	24.0
Max Allow Headway (MAH), s		4.2	4.1	4.1		4.2	4.1	4.1
Max Q Clear (g_c+I1), s		7.8	3.1	76.0		20.0	34.2	11.9
Green Ext Time (g_e), s		1.0	0.0	0.0		0.0	2.3	6.9
Prob of Phs Call (p_c)		1.00	0.37	1.00		1.00	1.00	1.00
Prob of Max Out (p_x)		0.06	1.00	1.00		1.00	0.01	0.58

Left-Turn Movement Data								
Assigned Mvmt		5	3			1		7
Mvmt Sat Flow, veh/h		185	1547			484		1547

Through Movement Data								
Assigned Mvmt		2		4		6	8	
Mvmt Sat Flow, veh/h		1182		1581		529	1624	

Right-Turn Movement Data								
Assigned Mvmt		12		14		16	18	
Mvmt Sat Flow, veh/h		144		37		482	1380	

Left Lane Group Data								
Assigned Mvmt	0	5	3	0	0	1	0	7
Lane Assignment		L+T+R	(Prot)			L+T+R		(Prot)
Lanes in Grp	0	1	1	0	0	1	0	1

Grp Vol (v), veh/h	0	105	16	0	0	270	0	200
Grp Sat Flow (s), veh/h/ln	0	1511	1547	0	0	1495	0	1547
Q Serve Time (g_s), s	0.0	0.0	1.1	0.0	0.0	12.2	0.0	9.9
Cycle Q Clear Time (g_c), s	0.0	5.8	1.1	0.0	0.0	18.0	0.0	9.9
Perm LT Sat Flow (s_l), veh/h/ln	0	1230	0	0	0	1336	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	1401	0	0	0	1629	0	0
Perm LT Eff Green (g_p), s	0.0	18.0	0.0	0.0	0.0	18.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	12.2	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	12.2	0.0	0.0
Time to First Blk (g_f), s	0.0	6.6	0.0	0.0	0.0	1.5	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	5.8	0.0	0.0	0.0	1.5	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.21	1.00	0.00	0.00	0.36	0.00	1.00
Lane Grp Cap (c), veh/h	0	299	22	0	0	301	0	572
V/C Ratio (X)	0.00	0.35	0.73	0.00	0.00	0.90	0.00	0.35
Avail Cap (c_a), veh/h	0	299	59	0	0	301	0	572
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	38.7	51.8	0.0	0.0	44.0	0.0	24.0
Incr Delay (d2), s/veh	0.0	0.7	36.6	0.0	0.0	27.2	0.0	0.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	39.4	88.4	0.0	0.0	71.2	0.0	24.4
1st-Term Q (Q1), veh/ln	0.0	2.7	0.5	0.0	0.0	7.8	0.0	4.2
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.2	0.0	0.0	2.3	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	2.8	0.7	0.0	0.0	10.1	0.0	4.3
%ile Storage Ratio (RQ%)	0.00	0.00	0.05	0.00	0.00	0.03	0.00	0.28
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	8	0
Lane Assignment							T	
Lanes in Grp	0	0	0	0	0	0	1	0
Grp Vol (v), veh/h	0	0	0	0	0	0	516	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	1624	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	32.2	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	32.2	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	561	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	0	831	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	33.1	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	11.3	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	44.4	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	14.3	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	16.1	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	18	0
Lane Assignment				T+R			R	
Lanes in Grp	0	0	0	1	0	0	1	0
Grp Vol (v), veh/h	0	0	0	1315	0	0	100	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1617	0	0	1380	0
Q Serve Time (g_s), s	0.0	0.0	0.0	74.0	0.0	0.0	5.4	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	74.0	0.0	0.0	5.4	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.10	0.00	0.02	0.00	0.32	1.00	0.00
Lane Grp Cap (c), veh/h	0	0	0	1135	0	0	477	0
V/C Ratio (X)	0.00	0.00	0.00	1.16	0.00	0.00	0.21	0.00
Avail Cap (c_a), veh/h	0	0	0	1135	0	0	707	0
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	15.7	0.0	0.0	24.4	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	81.7	0.0	0.0	0.2	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	97.5	0.0	0.0	24.6	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	32.5	0.0	0.0	2.1	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	25.8	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	58.2	0.0	0.0	2.1	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.32	0.00	0.00	0.10	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	45.1	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	72.6
HCM 2010 LOS	E

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	184	1182	28	15	475	92	20	67	9	88	80	80
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1624	1624	1900	1624	1624	1624	1900	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	200	1285	30	16	516	100	22	73	10	96	87	87
Adj No. of Lanes	1	1	0	1	1	1	0	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	17	17	17	17	17	17	10	10	10	10	10	10
Cap, veh/h	572	1109	26	22	561	477	73	202	25	129	90	82
Arrive On Green	0.37	0.70	0.70	0.01	0.35	0.35	0.17	0.17	0.17	0.17	0.17	0.17
Sat Flow, veh/h	1547	1581	37	1547	1624	1380	185	1182	144	484	529	482
Grp Volume(v), veh/h	200	0	1315	16	516	100	105	0	0	270	0	0
Grp Sat Flow(s),veh/h/ln	1547	0	1617	1547	1624	1380	1511	0	0	1495	0	0
Q Serve(g_s), s	9.9	0.0	74.0	1.1	32.2	5.4	0.0	0.0	0.0	12.2	0.0	0.0
Cycle Q Clear(g_c), s	9.9	0.0	74.0	1.1	32.2	5.4	5.8	0.0	0.0	18.0	0.0	0.0
Prop In Lane	1.00		0.02	1.00		1.00	0.21		0.10	0.36		0.32
Lane Grp Cap(c), veh/h	572	0	1135	22	561	477	299	0	0	301	0	0
V/C Ratio(X)	0.35	0.00	1.16	0.73	0.92	0.21	0.35	0.00	0.00	0.90	0.00	0.00
Avail Cap(c_a), veh/h	572	0	1135	59	831	707	299	0	0	301	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	24.0	0.0	15.7	51.8	33.1	24.4	38.7	0.0	0.0	44.0	0.0	0.0
Incr Delay (d2), s/veh	0.4	0.0	81.7	36.6	11.3	0.2	0.7	0.0	0.0	27.2	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.3	0.0	58.2	0.7	16.1	2.1	2.8	0.0	0.0	10.1	0.0	0.0
LnGrp Delay(d),s/veh	24.4	0.0	97.5	88.4	44.4	24.6	39.4	0.0	0.0	71.2	0.0	0.0
LnGrp LOS	C		F	F	D	C	D			E		
Approach Vol, veh/h		1515			632			105			270	
Approach Delay, s/veh		87.8			42.4			39.4			71.2	
Approach LOS		F			D			D			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6	7	8
Phs Duration (G+Y+Rc), s		22.0	5.5	78.0		22.0	43.0	40.5
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0	4.0	4.0
Max Green Setting (Gmax), s		18.0	4.0	74.0		18.0	24.0	54.0
Max Q Clear Time (g_c+I1), s		7.8	3.1	76.0		20.0	11.9	34.2
Green Ext Time (p_c), s		1.0	0.0	0.0		0.0	6.9	2.3

Intersection Summary	
HCM 2010 Ctrl Delay	72.6
HCM 2010 LOS	E

Intersection	
Intersection Delay, s/veh	18.1
Intersection LOS	C

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Vol, veh/h	0	14	130	0	0	51	51	16	0	0	264	271	0	16	61	14
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	15	15	15	10	15	15	15	10	10	10	10	10	10	10	10
Mvmt Flow	0	15	141	0	0	55	55	17	0	0	287	295	0	17	66	15
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	11.5	11.1	22.8	9.9
HCM LOS	B	B	C	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	10%	43%	18%
Vol Thru, %	49%	90%	43%	67%
Vol Right, %	51%	0%	14%	15%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	535	144	118	91
LT Vol	0	14	51	16
Through Vol	264	130	51	61
RT Vol	271	0	16	14
Lane Flow Rate	582	157	128	99
Geometry Grp	1	1	1	1
Degree of Util (X)	0.78	0.269	0.222	0.158
Departure Headway (Hd)	4.826	6.183	6.231	5.744
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	750	579	575	622
Service Time	2.86	4.235	4.285	3.797
HCM Lane V/C Ratio	0.776	0.271	0.223	0.159
HCM Control Delay	22.8	11.5	11.1	9.9
HCM Lane LOS	C	B	B	A
HCM 95th-tile Q	7.7	1.1	0.8	0.6

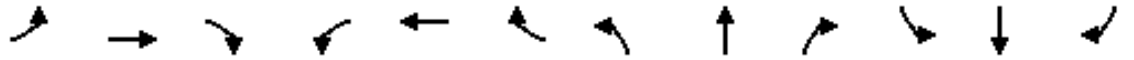
Intersection	
Int Delay, s/veh	0.9

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	25	355	123	38	16	8
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	15	15	15	15	10	10
Mvmt Flow	27	386	134	41	17	9

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	175	0	-	0	594	154
Stage 1	-	-	-	-	154	-
Stage 2	-	-	-	-	440	-
Critical Hdwy	4.25	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.335	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1326	-	-	-	455	871
Stage 1	-	-	-	-	855	-
Stage 2	-	-	-	-	633	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1326	-	-	-	443	871
Mov Cap-2 Maneuver	-	-	-	-	443	-
Stage 1	-	-	-	-	855	-
Stage 2	-	-	-	-	617	-

Approach	EB	WB	SB
HCM Control Delay, s	0.5	0	12.1
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1326	-	-	-	530
HCM Lane V/C Ratio	0.02	-	-	-	0.049
HCM Control Delay (s)	7.8	0	-	-	12.1
HCM Lane LOS	A	A	-	-	B
HCM 95th %tile Q(veh)	0.1	-	-	-	0.2



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	290	2788	176	869	1025	60	1125	1282	453	1588	4117	214
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	315	3030	191	945	1114	65	1223	1393	492	1726	4475	233
Adj No. of Lanes	2	2	1	2	3	0	2	3	0	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	367	1039	465	293	1336	78	372	1064	372	479	1611	502
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.12	0.32	0.32	0.09	0.29	0.29	0.12	0.31	0.31	0.15	0.34	0.34
Ln Grp Delay, s/veh	67.9	905.6	17.8	1067.0	46.3	51.4	1086.8	186.3	198.3	1224.0	839.6	31.2
Ln Grp LOS	E	F	B	F	D	D	F	F	F	F	F	C
Approach Vol, veh/h		3536			2124			3108			6434	
Approach Delay, s/veh		783.1			501.4			543.0			913.4	
Approach LOS		F			F			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	5	6	7	8
Case No	4.0	2.0	3.0	2.0	2.0	3.0	2.0	4.0
Phs Duration (G+Y+Rc), s	41.0	22.0	42.0	15.0	18.0	45.0	17.8	39.2
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	37.0	18.0	38.0	11.0	14.0	41.0	15.0	34.0
Max Allow Headway (MAH), s	4.1	4.0	4.0	4.1	4.1	4.0	4.1	4.1
Max Q Clear (g_c+I1), s	39.0	20.0	40.0	13.0	16.0	43.0	13.6	29.5
Green Ext Time (g_e), s	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.4
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prob of Max Out (p_x)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.97

Left-Turn Movement Data								
Assigned Mvmt		1		3	5		7	
Mvmt Sat Flow, veh/h		3191		3191	3191		3191	

Through Movement Data								
Assigned Mvmt	2		4			6		8
Mvmt Sat Flow, veh/h	3451		3282			4715		4558

Right-Turn Movement Data								
Assigned Mvmt	12		14			16		18
Mvmt Sat Flow, veh/h	1207		1468			1468		266

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	5	0	7	0
Lane Assignment		(Prot)		(Prot)	(Prot)		(Prot)	
Lanes in Grp	0	2	0	2	2	0	2	0

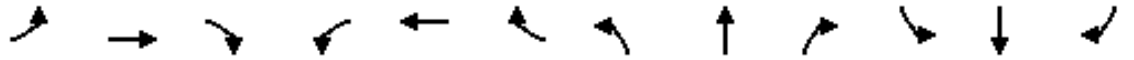
Grp Vol (v), veh/h	0	1726	0	945	1223	0	315	0
Grp Sat Flow (s), veh/h/ln	0	1596	0	1596	1596	0	1596	0
Q Serve Time (g_s), s	0.0	18.0	0.0	11.0	14.0	0.0	11.6	0.0
Cycle Q Clear Time (g_c), s	0.0	18.0	0.0	11.0	14.0	0.0	11.6	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	479	0	293	372	0	367	0
V/C Ratio (X)	0.00	3.61	0.00	3.23	3.28	0.00	0.86	0.00
Avail Cap (c_a), veh/h	0	479	0	293	372	0	399	0
Upstream Filter (I)	0.00	0.09	0.00	1.00	0.82	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	51.0	0.0	54.5	53.0	0.0	52.1	0.0
Incr Delay (d2), s/veh	0.0	1173.0	0.0	1012.5	1033.8	0.0	15.8	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	1224.0	0.0	1067.0	1086.8	0.0	67.9	0.0
1st-Term Q (Q1), veh/ln	0.0	7.9	0.0	4.8	6.2	0.0	5.1	0.0
2nd-Term Q (Q2), veh/ln	0.0	78.0	0.0	41.1	53.5	0.0	0.8	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	85.9	0.0	46.0	59.6	0.0	5.9	0.0
%ile Storage Ratio (RQ%)	0.00	12.14	0.00	6.46	8.89	0.00	0.85	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	311.8	0.0	163.1	212.7	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.9	0.0	0.8	0.8	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	0	6	0	8
Lane Assignment	T		T			T		T
Lanes in Grp	2	0	2	0	0	3	0	2
Grp Vol (v), veh/h	1268	0	3030	0	0	4475	0	768
Grp Sat Flow (s), veh/h/ln	1572	0	1641	0	0	1572	0	1572
Q Serve Time (g_s), s	37.0	0.0	38.0	0.0	0.0	41.0	0.0	27.4
Cycle Q Clear Time (g_c), s	37.0	0.0	38.0	0.0	0.0	41.0	0.0	27.4
Lane Grp Cap (c), veh/h	969	0	1039	0	0	1611	0	922
V/C Ratio (X)	1.31	0.00	2.92	0.00	0.00	2.78	0.00	0.83
Avail Cap (c_a), veh/h	969	0	1039	0	0	1611	0	922
Upstream Filter (I)	0.82	0.00	1.00	0.00	0.00	0.09	0.00	1.00
Uniform Delay (d1), s/veh	41.5	0.0	41.0	0.0	0.0	39.5	0.0	39.7
Incr Delay (d2), s/veh	144.8	0.0	864.6	0.0	0.0	800.1	0.0	6.6
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	186.3	0.0	905.6	0.0	0.0	839.6	0.0	46.3
1st-Term Q (Q1), veh/ln	16.0	0.0	17.2	0.0	0.0	17.8	0.0	11.9
2nd-Term Q (Q2), veh/ln	19.5	0.0	124.8	0.0	0.0	119.4	0.0	0.8

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	35.5	0.0	142.0	0.0	0.0	137.1	0.0	12.8
%ile Storage Ratio (RQ%)	0.05	0.00	0.74	0.00	0.00	0.35	0.00	0.06
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	74.6	0.0	497.7	0.0	0.0	716.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.3	0.0	0.7	0.0	0.0	0.7	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	0	16	0	18
Lane Assignment	T+R		R			R		T+R
Lanes in Grp	1	0	1	0	0	1	0	1
Grp Vol (v), veh/h	617	0	191	0	0	233	0	411
Grp Sat Flow (s), veh/h/ln	1514	0	1468	0	0	1468	0	1680
Q Serve Time (g_s), s	37.0	0.0	9.0	0.0	0.0	14.9	0.0	27.5
Cycle Q Clear Time (g_c), s	37.0	0.0	9.0	0.0	0.0	14.9	0.0	27.5
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.80	0.00	1.00	0.00	0.00	1.00	0.00	0.16
Lane Grp Cap (c), veh/h	467	0	465	0	0	502	0	493
V/C Ratio (X)	1.32	0.00	0.41	0.00	0.00	0.46	0.00	0.83
Avail Cap (c_a), veh/h	467	0	465	0	0	502	0	493
Upstream Filter (I)	0.82	0.00	1.00	0.00	0.00	0.09	0.00	1.00
Uniform Delay (d1), s/veh	41.5	0.0	17.2	0.0	0.0	30.9	0.0	39.7
Incr Delay (d2), s/veh	156.8	0.0	0.6	0.0	0.0	0.3	0.0	11.7
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	198.3	0.0	17.8	0.0	0.0	31.2	0.0	51.4
1st-Term Q (Q1), veh/ln	15.4	0.0	3.6	0.0	0.0	6.0	0.0	12.8
2nd-Term Q (Q2), veh/ln	20.3	0.0	0.1	0.0	0.0	0.0	0.0	1.6
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	35.8	0.0	3.7	0.0	0.0	6.1	0.0	14.4
%ile Storage Ratio (RQ%)	0.05	0.00	0.50	0.00	0.00	0.02	0.00	0.07
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	37.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0

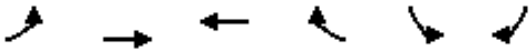
Intersection Summary	
HCM 2010 Ctrl Delay	749.8
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	290	2788	176	869	1025	60	1125	1282	453	1588	4117	214
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	315	3030	191	945	1114	65	1223	1393	492	1726	4475	233
Adj No. of Lanes	2	2	1	2	3	0	2	3	0	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	367	1039	465	293	1336	78	372	1064	372	479	1611	502
Arrive On Green	0.12	0.32	0.32	0.09	0.29	0.29	0.12	0.31	0.31	0.15	0.34	0.34
Sat Flow, veh/h	3191	3282	1468	3191	4558	266	3191	3451	1207	3191	4715	1468
Grp Volume(v), veh/h	315	3030	191	945	768	411	1223	1268	617	1726	4475	233
Grp Sat Flow(s),veh/h/ln	1596	1641	1468	1596	1572	1680	1596	1572	1514	1596	1572	1468
Q Serve(g_s), s	11.6	38.0	9.0	11.0	27.4	27.5	14.0	37.0	37.0	18.0	41.0	14.9
Cycle Q Clear(g_c), s	11.6	38.0	9.0	11.0	27.4	27.5	14.0	37.0	37.0	18.0	41.0	14.9
Prop In Lane	1.00		1.00	1.00		0.16	1.00		0.80	1.00		1.00
Lane Grp Cap(c), veh/h	367	1039	465	293	922	493	372	969	467	479	1611	502
V/C Ratio(X)	0.86	2.92	0.41	3.23	0.83	0.83	3.28	1.31	1.32	3.61	2.78	0.46
Avail Cap(c_a), veh/h	399	1039	465	293	922	493	372	969	467	479	1611	502
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	0.82	0.82	0.82	0.09	0.09	0.09
Uniform Delay (d), s/veh	52.1	41.0	17.2	54.5	39.7	39.7	53.0	41.5	41.5	51.0	39.5	30.9
Incr Delay (d2), s/veh	15.8	864.6	0.6	1012.5	6.6	11.7	1033.8	144.8	156.8	1173.0	800.1	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.9	142.0	3.7	46.0	12.8	14.4	59.6	35.5	35.8	85.9	137.1	6.1
LnGrp Delay(d),s/veh	67.9	905.6	17.8	1067.0	46.3	51.4	1086.8	186.3	198.3	1224.0	839.6	31.2
LnGrp LOS	E	F	B	F	D	D	F	F	F	F	F	C
Approach Vol, veh/h		3536			2124			3108			6434	
Approach Delay, s/veh		783.1			501.4			543.0			913.4	
Approach LOS		F			F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	22.0	41.0	15.0	42.0	18.0	45.0	17.8	39.2
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	18.0	37.0	11.0	38.0	14.0	41.0	15.0	34.0
Max Q Clear Time (g_c+I1), s	20.0	39.0	13.0	40.0	16.0	43.0	13.6	29.5
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.4

Intersection Summary	
HCM 2010 Ctrl Delay	749.8
HCM 2010 LOS	F



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (veh/h)	72	1225	484	265	426	85
Number	7	4	8	18	1	16
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00			1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	78	1332	526	288	463	92
Adj No. of Lanes	2	2	2	1	2	2
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Opposing Right Turn Influence	Yes				Yes	
Cap, veh/h	975	2486	2486	1112	561	455
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.76	0.76	0.76	0.76	0.18	0.18
Ln Grp Delay, s/veh	5.5	6.6	4.3	4.7	50.8	42.5
Ln Grp LOS	A	A	A	A	D	D
Approach Vol, veh/h		1410	814		555	
Approach Delay, s/veh		6.6	4.5		49.4	
Approach LOS		A	A		D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	6			4				8
Case No	9.0			6.0				7.0
Phs Duration (G+Y+Rc), s	25.1			94.9				94.9
Change Period (Y+Rc), s	4.0			4.0				4.0
Max Green (Gmax), s	39.0			73.0				73.0
Max Allow Headway (MAH), s	4.1			4.2				4.2
Max Q Clear (g_c+I1), s	18.8			21.9				9.1
Green Ext Time (g_e), s	2.3			16.9				17.6
Prob of Phs Call (p_c)	1.00			1.00				1.00
Prob of Max Out (p_x)	0.00			0.00				0.00

Left-Turn Movement Data								
Assigned Mvmt	1			7				3
Mvmt Sat Flow, veh/h	3191			1202				0

Through Movement Data								
Assigned Mvmt	6			4				8
Mvmt Sat Flow, veh/h	0			3368				3368

Right-Turn Movement Data								
Assigned Mvmt	16			14				18
Mvmt Sat Flow, veh/h	2584			0				1468

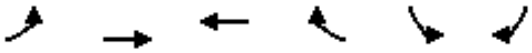
Left Lane Group Data								
Assigned Mvmt	1	0	0	7	0	0	0	3
Lane Assignment								
Lanes in Grp	2	0	0	2	0	0	0	0

Grp Vol (v), veh/h	463	0	0	78	0	0	0	0
Grp Sat Flow (s), veh/h/ln	1596	0	0	601	0	0	0	0
Q Serve Time (g_s), s	16.8	0.0	0.0	2.4	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	16.8	0.0	0.0	8.0	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	1596	0	0	601	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	90.9	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	85.3	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90.9
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	561	0	0	975	0	0	0	0
V/C Ratio (X)	0.82	0.00	0.00	0.08	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	1037	0	0	975	0	0	0	0
Upstream Filter (I)	1.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	47.7	0.0	0.0	5.4	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	3.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	50.8	0.0	0.0	5.5	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	7.4	0.0	0.0	0.4	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	7.6	0.0	0.0	0.4	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	1.04	0.00	0.00	0.03	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	6	0	0	4	0	0	0	8
Lane Assignment				T				T
Lanes in Grp	0	0	0	2	0	0	0	2
Grp Vol (v), veh/h	0	0	0	1332	0	0	0	526
Grp Sat Flow (s), veh/h/ln	0	0	0	1641	0	0	0	1641
Q Serve Time (g_s), s	0.0	0.0	0.0	19.9	0.0	0.0	0.0	5.6
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	19.9	0.0	0.0	0.0	5.6
Lane Grp Cap (c), veh/h	0	0	0	2486	0	0	0	2486
V/C Ratio (X)	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.21
Avail Cap (c_a), veh/h	0	0	0	2486	0	0	0	2486
Upstream Filter (I)	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.60
Uniform Delay (d1), s/veh	0.0	0.0	0.0	5.9	0.0	0.0	0.0	4.2
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	6.6	0.0	0.0	0.0	4.3
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	8.9	0.0	0.0	0.0	2.5
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	9.1	0.0	0.0	0.0	2.5
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	16	0	0	14	0	0	0	18
Lane Assignment	R							R
Lanes in Grp	2	0	0	0	0	0	0	1
Grp Vol (v), veh/h	92	0	0	0	0	0	0	288
Grp Sat Flow (s), veh/h/ln	1292	0	0	0	0	0	0	1468
Q Serve Time (g_s), s	3.7	0.0	0.0	0.0	0.0	0.0	0.0	7.1
Cycle Q Clear Time (g_c), s	3.7	0.0	0.0	0.0	0.0	0.0	0.0	7.1
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	455	0	0	0	0	0	0	1112
V/C Ratio (X)	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.26
Avail Cap (c_a), veh/h	840	0	0	0	0	0	0	1112
Upstream Filter (I)	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60
Uniform Delay (d1), s/veh	42.3	0.0	0.0	0.0	0.0	0.0	0.0	4.4
Incr Delay (d2), s/veh	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	42.5	0.0	0.0	0.0	0.0	0.0	0.0	4.7
1st-Term Q (Q1), veh/ln	1.3	0.0	0.0	0.0	0.0	0.0	0.0	2.9
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	1.3	0.0	0.0	0.0	0.0	0.0	0.0	3.0
%ile Storage Ratio (RQ%)	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.41
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	14.5
HCM 2010 LOS	B



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (veh/h)	72	1225	484	265	426	85
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	78	1332	526	288	463	92
Adj No. of Lanes	2	2	2	1	2	2
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Cap, veh/h	975	2486	2486	1112	561	455
Arrive On Green	0.76	0.76	0.76	0.76	0.18	0.18
Sat Flow, veh/h	1202	3368	3368	1468	3191	2584
Grp Volume(v), veh/h	78	1332	526	288	463	92
Grp Sat Flow(s),veh/h/ln	601	1641	1641	1468	1596	1292
Q Serve(g_s), s	2.4	19.9	5.6	7.1	16.8	3.7
Cycle Q Clear(g_c), s	8.0	19.9	5.6	7.1	16.8	3.7
Prop In Lane	1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	975	2486	2486	1112	561	455
V/C Ratio(X)	0.08	0.54	0.21	0.26	0.82	0.20
Avail Cap(c_a), veh/h	975	2486	2486	1112	1037	840
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.84	0.84	0.60	0.60	1.00	1.00
Uniform Delay (d), s/veh	5.4	5.9	4.2	4.4	47.7	42.3
Incr Delay (d2), s/veh	0.1	0.7	0.1	0.3	3.1	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	9.1	2.5	3.0	7.6	1.3
LnGrp Delay(d),s/veh	5.5	6.6	4.3	4.7	50.8	42.5
LnGrp LOS	A	A	A	A	D	D
Approach Vol, veh/h		1410	814		555	
Approach Delay, s/veh		6.6	4.5		49.4	
Approach LOS		A	A		D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		8
Phs Duration (G+Y+Rc), s				94.9		25.1		94.9
Change Period (Y+Rc), s				4.0		4.0		4.0
Max Green Setting (Gmax), s				73.0		39.0		73.0
Max Q Clear Time (g_c+I1), s				21.9		18.8		9.1
Green Ext Time (p_c), s				16.9		2.3		17.6

Intersection Summary	
HCM 2010 Ctrl Delay	14.5
HCM 2010 LOS	B

Intersection	
Int Delay, s/veh	296.5

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	1885	55	48	647	194	185
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	0	-	0	-
Veh in Median Storage, #	0	-	-	0	1	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	2049	60	52	703	211	201

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	2109	0	2887	2079
Stage 1	-	-	-	-	2079	-
Stage 2	-	-	-	-	808	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	244	-	~ 17	~ 64
Stage 1	-	-	-	-	~ 99	-
Stage 2	-	-	-	-	425	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	244	-	~ 13	~ 64
Mov Cap-2 Maneuver	-	-	-	-	~ 74	-
Stage 1	-	-	-	-	~ 99	-
Stage 2	-	-	-	-	334	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.6	$ 2354.9
HCM LOS			F

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	69	-	-	244	-
HCM Lane V/C Ratio	5.97	-	-	0.214	-
HCM Control Delay (s)	$ 2354.9	-	-	23.7	-
HCM Lane LOS	F	-	-	C	-
HCM 95th %tile Q(veh)	46.2	-	-	0.8	-

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Intersection	
Int Delay, s/veh	3.3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	53	30	738	120	6	655
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	58	33	802	130	7	712

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1592	867	0	0	933	0
Stage 1	867	-	-	-	-	-
Stage 2	725	-	-	-	-	-
Critical Hdwy	6.5	6.3	-	-	4.2	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	-	-	2.29	-
Pot Cap-1 Maneuver	113	341	-	-	702	-
Stage 1	398	-	-	-	-	-
Stage 2	465	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	111	341	-	-	702	-
Mov Cap-2 Maneuver	111	-	-	-	-	-
Stage 1	398	-	-	-	-	-
Stage 2	458	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	62.2	0	0.1
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	147	702	-
HCM Lane V/C Ratio	-	-	0.614	0.009	-
HCM Control Delay (s)	-	-	62.2	10.2	0
HCM Lane LOS	-	-	F	B	A
HCM 95th %tile Q(veh)	-	-	3.3	0	-

Intersection	
Int Delay, s/veh	2.3

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	113	958	207	10	30	17
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	123	1041	225	11	33	18

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	236	0	-	0	1517	230
Stage 1	-	-	-	-	230	-
Stage 2	-	-	-	-	1287	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1286	-	-	-	126	790
Stage 1	-	-	-	-	790	-
Stage 2	-	-	-	-	249	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1286	-	-	-	97	790
Mov Cap-2 Maneuver	-	-	-	-	97	-
Stage 1	-	-	-	-	790	-
Stage 2	-	-	-	-	192	-

Approach	EB	WB	SB
HCM Control Delay, s	0.9	0	44
HCM LOS			E

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1286	-	-	-	142
HCM Lane V/C Ratio	0.096	-	-	-	0.36
HCM Control Delay (s)	8.1	0	-	-	44
HCM Lane LOS	A	A	-	-	E
HCM 95th %tile Q(veh)	0.3	-	-	-	1.5

Intersection	
Int Delay, s/veh	0.1

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	0	255	934	5	3	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	277	1015	5	3	2

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	1021	0	-	0	1295	1018
Stage 1	-	-	-	-	1018	-
Stage 2	-	-	-	-	277	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	649	-	-	-	172	278
Stage 1	-	-	-	-	337	-
Stage 2	-	-	-	-	752	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	649	-	-	-	172	278
Mov Cap-2 Maneuver	-	-	-	-	172	-
Stage 1	-	-	-	-	337	-
Stage 2	-	-	-	-	752	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	23.2
HCM LOS			C

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	649	-	-	-	203
HCM Lane V/C Ratio	-	-	-	-	0.027
HCM Control Delay (s)	0	-	-	-	23.2
HCM Lane LOS	A	-	-	-	C
HCM 95th %tile Q(veh)	0	-	-	-	0.1

Intersection	
Intersection Delay, s/veh	77.2
Intersection LOS	F

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	73	879	154	0	156	219	77	0	57	409	256
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	79	955	167	0	170	238	84	0	62	445	278
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	1	1	1
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	1	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	1	1
HCM Control Delay	78.3	78.5	77.8
HCM LOS	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	8%	7%	35%	41%
Vol Thru, %	57%	79%	48%	52%
Vol Right, %	35%	14%	17%	6%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	722	1106	452	326
LT Vol	57	73	156	135
Through Vol	409	879	219	170
RT Vol	256	154	77	21
Lane Flow Rate	785	1202	491	354
Geometry Grp	1	1	1	1
Degree of Util (X)	1	1	1	0.963
Departure Headway (Hd)	9.475	9.601	9.638	9.781
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	392	397	383	372
Service Time	7.475	7.601	7.638	7.811
HCM Lane V/C Ratio	2.003	3.028	1.282	0.952
HCM Control Delay	77.8	78.3	78.5	70.2
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	11.9	11.9	11.8	10.7

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	135	170	21
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10
Mvmt Flow	0	147	185	23
Number of Lanes	0	0	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	1
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	70.2
HCM LOS	F

Lane

Intersection	
Int Delay, s/veh	3.2

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	3	10	0	200	90	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	3	11	0	217	98	5

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	14	0	226	9
Stage 1	-	-	-	-	9	-
Stage 2	-	-	-	-	217	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	1553	-	745	1050
Stage 1	-	-	-	-	994	-
Stage 2	-	-	-	-	801	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1553	-	745	1050
Mov Cap-2 Maneuver	-	-	-	-	745	-
Stage 1	-	-	-	-	994	-
Stage 2	-	-	-	-	801	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	10.5
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	757	-	-	1553	-
HCM Lane V/C Ratio	0.136	-	-	-	-
HCM Control Delay (s)	10.5	-	-	0	-
HCM Lane LOS	B	-	-	A	-
HCM 95th %tile Q(veh)	0.5	-	-	0	-

Intersection	
Int Delay, s/veh	31.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	0	45	20	30	4	53	2	64	175	598	208	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	49	22	33	4	58	2	70	190	650	226	0

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	1726	1790	226	1730	1695	165	226	0	0	260	0	0
Stage 1	1526	1526	-	169	169	-	-	-	-	-	-	-
Stage 2	200	264	-	1561	1526	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.2	6.6	6.3	4.2	-	-	4.2	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.59	4.09	3.39	2.29	-	-	2.29	-	-
Pot Cap-1 Maneuver	67	77	794	66	89	859	1297	-	-	1259	-	-
Stage 1	141	173	-	814	744	-	-	-	-	-	-	-
Stage 2	784	676	-	134	173	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	30	~ 32	794	-	36	859	1297	-	-	1259	-	-
Mov Cap-2 Maneuver	30	~ 32	-	-	36	-	-	-	-	-	-	-
Stage 1	141	71	-	812	743	-	-	-	-	-	-	-
Stage 2	726	675	-	~ 17	71	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	$ 483.4		0.1	8.1
HCM LOS	F	-		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1297	-	-	45	-	1259	-	-
HCM Lane V/C Ratio	0.002	-	-	1.57	-	0.516	-	-
HCM Control Delay (s)	7.8	0	-	$ 483.4	-	10.9	0	-
HCM Lane LOS	A	A	-	F	-	B	A	-
HCM 95th %tile Q(veh)	0	-	-	7	-	3.1	-	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Intersection	
Int Delay, s/veh	741.6

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	0	676	70	70	1117	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	735	76	76	1214	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	152	0	-	0	849	114
Stage 1	-	-	-	-	114	-
Stage 2	-	-	-	-	735	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1381	-	-	-	~ 321	917
Stage 1	-	-	-	-	~ 891	-
Stage 2	-	-	-	-	~ 460	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1381	-	-	-	~ 321	917
Mov Cap-2 Maneuver	-	-	-	-	~ 321	-
Stage 1	-	-	-	-	~ 891	-
Stage 2	-	-	-	-	~ 460	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	$ 1283.3
HCM LOS			F

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1381	-	-	-	321
HCM Lane V/C Ratio	-	-	-	-	3.782
HCM Control Delay (s)	0	-	-	$	1283.3
HCM Lane LOS	A	-	-	-	F
HCM 95th %tile Q(veh)	0	-	-	-	115.6

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Intersection	
Intersection Delay, s/veh	63.1
Intersection LOS	F

Movement	EBU	EBL	EBR	NBU	NBL	NBT	SBU	SBT	SBR
Vol, veh/h	0	333	588	0	329	658	0	375	57
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	362	639	0	358	715	0	408	62
Number of Lanes	0	1	0	0	0	1	0	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	1	1
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	1	1	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	1	0	1
HCM Control Delay	65	66.9	50.1
HCM LOS	F	F	F

Lane	NBLn1	EBLn1	SBLn1
Vol Left, %	33%	36%	0%
Vol Thru, %	67%	0%	87%
Vol Right, %	0%	64%	13%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	987	921	432
LT Vol	329	333	0
Through Vol	658	0	375
RT Vol	0	588	57
Lane Flow Rate	1073	1001	470
Geometry Grp	1	1	1
Degree of Util (X)	1	1	0.925
Departure Headway (Hd)	7.118	6.74	7.088
Convergence, Y/N	Yes	Yes	Yes
Cap	515	551	517
Service Time	5.147	4.769	5.088
HCM Lane V/C Ratio	2.083	1.817	0.909
HCM Control Delay	66.9	65	50.1
HCM Lane LOS	F	F	F
HCM 95th-tile Q	13.7	14.1	11.1

Intersection	
Intersection Delay, s/veh	77.7
Intersection LOS	F

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Vol, veh/h	0	49	593	6	0	130	244	52	0	6	525	392	0	201	283	20
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	53	645	7	0	141	265	57	0	7	571	426	0	218	308	22
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	79.1	79	77.9	79.3
HCM LOS	F	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	1%	8%	31%	40%
Vol Thru, %	57%	92%	57%	56%
Vol Right, %	42%	1%	12%	4%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	923	648	426	504
LT Vol	6	49	130	201
Through Vol	525	593	244	283
RT Vol	392	6	52	20
Lane Flow Rate	1003	704	463	548
Geometry Grp	1	1	1	1
Degree of Util (X)	1	1	1	1
Departure Headway (Hd)	9.465	9.728	9.755	9.774
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	391	380	375	373
Service Time	7.514	7.777	7.755	7.823
HCM Lane V/C Ratio	2.565	1.853	1.235	1.469
HCM Control Delay	77.9	79.1	79	79.3
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	11.9	11.8	11.8	11.7

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	0	0	0	319	147	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	0	0	347	160	0

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	507	160	160	0	-	0
Stage 1	160	-	-	-	-	-
Stage 2	347	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	511	865	1372	-	-	-
Stage 1	850	-	-	-	-	-
Stage 2	698	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	511	865	1372	-	-	-
Mov Cap-2 Maneuver	511	-	-	-	-	-
Stage 1	850	-	-	-	-	-
Stage 2	698	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	0	0	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1372	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	0	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	-	-	-

Intersection	
Int Delay, s/veh	0.5

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	20	2	0	300	456	10
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	22	2	0	326	496	11

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	827	501	507	0	-	0
Stage 1	501	-	-	-	-	-
Stage 2	326	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	331	554	1018	-	-	-
Stage 1	593	-	-	-	-	-
Stage 2	714	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	331	554	1018	-	-	-
Mov Cap-2 Maneuver	331	-	-	-	-	-
Stage 1	593	-	-	-	-	-
Stage 2	714	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	16.2	0	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1018	-	344	-	-
HCM Lane V/C Ratio	-	-	0.07	-	-
HCM Control Delay (s)	0	-	16.2	-	-
HCM Lane LOS	A	-	C	-	-
HCM 95th %tile Q(veh)	0	-	0.2	-	-

Intersection	
Intersection Delay, s/veh	11.6
Intersection LOS	B

Movement	EBU	EBL	EBR	NBU	NBL	NBT	SBU	SBT	SBR
Vol, veh/h	0	394	0	0	12	0	0	0	86
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	428	0	0	13	0	0	0	93
Number of Lanes	0	1	0	0	0	1	0	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	1	1
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	1	1	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	1	0	1
HCM Control Delay	12.5	8.6	8.1
HCM LOS	B	A	A

Lane	NBLn1	EBLn1	SBLn1
Vol Left, %	100%	100%	0%
Vol Thru, %	0%	0%	0%
Vol Right, %	0%	0%	100%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	12	394	86
LT Vol	12	394	0
Through Vol	0	0	0
RT Vol	0	0	86
Lane Flow Rate	13	428	93
Geometry Grp	1	1	1
Degree of Util (X)	0.02	0.53	0.118
Departure Headway (Hd)	5.436	4.455	4.531
Convergence, Y/N	Yes	Yes	Yes
Cap	661	801	796
Service Time	3.445	2.539	2.532
HCM Lane V/C Ratio	0.02	0.534	0.117
HCM Control Delay	8.6	12.5	8.1
HCM Lane LOS	A	B	A
HCM 95th-tile Q	0.1	3.2	0.4

Intersection	
Int Delay, s/veh	0.1

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	0	3	2	202	360	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	3	2	220	391	5

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	618	394	397	0	-	0
Stage 1	394	-	-	-	-	-
Stage 2	224	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	440	638	1119	-	-	-
Stage 1	664	-	-	-	-	-
Stage 2	795	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	439	638	1119	-	-	-
Mov Cap-2 Maneuver	439	-	-	-	-	-
Stage 1	664	-	-	-	-	-
Stage 2	793	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	10.7	0.1	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1119	-	638	-	-
HCM Lane V/C Ratio	0.002	-	0.005	-	-
HCM Control Delay (s)	8.2	0	10.7	-	-
HCM Lane LOS	A	A	B	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Intersection	
Int Delay, s/veh	188.6

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	122	27	1260	715	87	339
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	133	29	1370	777	95	368

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	2316	1758	0	0	2147	0
Stage 1	1758	-	-	-	-	-
Stage 2	558	-	-	-	-	-
Critical Hdwy	6.5	6.3	-	-	4.2	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	-	-	2.29	-
Pot Cap-1 Maneuver	~ 39	100	-	-	235	-
Stage 1	145	-	-	-	-	-
Stage 2	557	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	~ 19	100	-	-	235	-
Mov Cap-2 Maneuver	~ 19	-	-	-	-	-
Stage 1	145	-	-	-	-	-
Stage 2	274	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	$ 3209.6	0	6.2
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	22	235	-
HCM Lane V/C Ratio	-	-	7.362	0.402	-
HCM Control Delay (s)	-	-	$ 3209.6	30.3	0
HCM Lane LOS	-	-	F	D	A
HCM 95th %tile Q(veh)	-	-	20.5	1.8	-

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Intersection	
Int Delay, s/veh	13.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	35	2561	5	43	859	40	0	4	22	59	0	38
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	253	-	-	248	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	38	2784	5	47	934	43	0	4	24	64	0	41

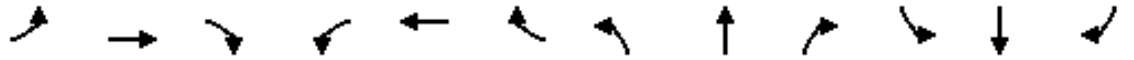
Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	977	0	0	2789	0	0	3933	3934	2786	3926	3914	955
Stage 1	-	-	-	-	-	-	2863	2863	-	1049	1049	-
Stage 2	-	-	-	-	-	-	1070	1071	-	2877	2865	-
Critical Hdwy	4.2	-	-	4.2	-	-	7.2	6.6	6.3	7.2	6.6	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.59	4.09	3.39	3.59	4.09	3.39
Pot Cap-1 Maneuver	675	-	-	130	-	-	2	~ 3	~ 23	~ 2	3	303
Stage 1	-	-	-	-	-	-	22	35	-	266	295	-
Stage 2	-	-	-	-	-	-	258	288	-	~ 22	35	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	675	-	-	130	-	-	1	~ 2	~ 23	-	2	303
Mov Cap-2 Maneuver	-	-	-	-	-	-	1	~ 2	-	-	2	-
Stage 1	-	-	-	-	-	-	21	33	-	251	188	-
Stage 2	-	-	-	-	-	-	142	184	-	-	33	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.1	2.2	$ 1779.3	
HCM LOS			F	-

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	9	675	-	-	130	-	-	-
HCM Lane V/C Ratio	3.14	0.056	-	-	0.36	-	-	-
HCM Control Delay (s)	$ 1779.3	10.7	-	-	47.5	-	-	-
HCM Lane LOS	F	B	-	-	E	-	-	-
HCM 95th %tile Q(veh)	4.7	0.2	-	-	1.5	-	-	-

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	1167	1266	14	28	414	2	33	67	50	6	51	492
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	1268	1376	15	30	450	2	36	73	54	7	55	535
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	781	1109	12	65	369	2	44	88	65	133	21	203
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.47	0.65	0.65	0.04	0.21	0.21	0.03	0.10	0.10	0.08	0.15	0.15
Ln Grp Delay, s/veh	317.6	0.0	137.3	61.3	0.0	167.8	109.3	0.0	65.6	51.0	0.0	802.5
Ln Grp LOS	F		F	E		F	F		E	D		F
Approach Vol, veh/h		2659			482			163			597	
Approach Delay, s/veh		223.3			161.2			75.2			793.7	
Approach LOS		F			F			E			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	6	5	7	8
Case No	4.0	2.0	4.0	2.0	4.0	2.0	2.0	4.0
Phs Duration (G+Y+Rc), s	15.5	13.7	82.0	8.8	22.0	7.2	61.0	29.8
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	18.0	4.0	78.0	4.0	18.0	4.0	57.0	25.0
Max Allow Headway (MAH), s	4.2	4.1	4.0	4.0	4.3	4.1	4.1	4.0
Max Q Clear (g_c+I1), s	11.3	2.5	80.0	4.1	20.0	4.6	59.0	27.8
Green Ext Time (g_e), s	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prob of Phs Call (p_c)	1.00	0.21	1.00	0.63	1.00	0.70	1.00	1.00
Prob of Max Out (p_x)	0.11	1.00	0.00	1.00	1.00	1.00	1.00	0.00

Left-Turn Movement Data								
Assigned Mvmt		1		3		5	7	
Mvmt Sat Flow, veh/h		1645		1645		1645	1645	

Through Movement Data								
Assigned Mvmt	2		4		6			8
Mvmt Sat Flow, veh/h	924		1705		139			1718

Right-Turn Movement Data								
Assigned Mvmt	12		14		16			18
Mvmt Sat Flow, veh/h	683		19		1350			8

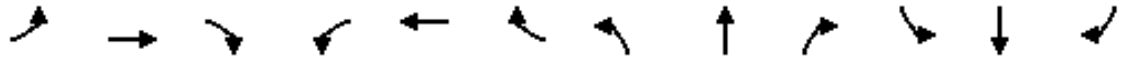
Left Lane Group Data								
Assigned Mvmt	0	1	0	3	0	5	7	0
Lane Assignment		(Prot)		(Prot)		(Prot)	(Prot)	
Lanes in Grp	0	1	0	1	0	1	1	0

Grp Vol (v), veh/h	0	7	0	30	0	36	1268	0
Grp Sat Flow (s), veh/h/ln	0	1645	0	1645	0	1645	1645	0
Q Serve Time (g_s), s	0.0	0.5	0.0	2.1	0.0	2.6	57.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.5	0.0	2.1	0.0	2.6	57.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	133	0	65	0	44	781	0
V/C Ratio (X)	0.00	0.05	0.00	0.46	0.00	0.81	1.62	0.00
Avail Cap (c_a), veh/h	0	133	0	65	0	55	781	0
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	50.9	0.0	56.3	0.0	58.1	31.5	0.0
Incr Delay (d2), s/veh	0.0	0.2	0.0	4.9	0.0	51.2	286.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	51.0	0.0	61.3	0.0	109.3	317.6	0.0
1st-Term Q (Q1), veh/ln	0.0	0.2	0.0	1.0	0.0	1.2	25.8	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.1	0.0	0.6	62.1	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.2	0.0	1.1	0.0	1.8	87.9	0.0
%ile Storage Ratio (RQ%)	0.00	0.03	0.00	0.15	0.00	0.80	9.13	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	121.7	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0
Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	6	0	0	8
Lane Assignment								
Lanes in Grp	0	0	0	0	0	0	0	0
Grp Vol (v), veh/h	0	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	16	0	0	18
Lane Assignment	T+R		T+R		T+R			T+R
Lanes in Grp	1	0	1	0	1	0	0	1
Grp Vol (v), veh/h	127	0	1391	0	590	0	0	452
Grp Sat Flow (s), veh/h/ln	1607	0	1724	0	1489	0	0	1726
Q Serve Time (g_s), s	9.3	0.0	78.0	0.0	18.0	0.0	0.0	25.8
Cycle Q Clear Time (g_c), s	9.3	0.0	78.0	0.0	18.0	0.0	0.0	25.8
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.43	0.00	0.01	0.00	0.91	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	154	0	1121	0	223	0	0	371
V/C Ratio (X)	0.83	0.00	1.24	0.00	2.64	0.00	0.00	1.22
Avail Cap (c_a), veh/h	241	0	1121	0	223	0	0	371
Upstream Filter (I)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	53.3	0.0	21.0	0.0	51.0	0.0	0.0	47.1
Incr Delay (d2), s/veh	12.3	0.0	116.3	0.0	751.5	0.0	0.0	120.7
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	65.6	0.0	137.3	0.0	802.5	0.0	0.0	167.8
1st-Term Q (Q1), veh/ln	4.1	0.0	36.7	0.0	7.4	0.0	0.0	12.3
2nd-Term Q (Q2), veh/ln	0.5	0.0	36.2	0.0	46.6	0.0	0.0	12.4
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	4.7	0.0	72.9	0.0	54.0	0.0	0.0	24.7
%ile Storage Ratio (RQ%)	0.01	0.00	0.13	0.00	0.21	0.00	0.00	0.17
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	67.6	0.0	91.7	0.0	0.0	20.3
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.3	0.0	0.7	0.0	0.0	0.3

Intersection Summary	
HCM 2010 Ctrl Delay	296.7
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	1167	1266	14	28	414	2	33	67	50	6	51	492
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	1268	1376	15	30	450	2	36	73	54	7	55	535
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	781	1109	12	65	369	2	44	88	65	133	21	203
Arrive On Green	0.47	0.65	0.65	0.04	0.21	0.21	0.03	0.10	0.10	0.08	0.15	0.15
Sat Flow, veh/h	1645	1705	19	1645	1718	8	1645	924	683	1645	139	1350
Grp Volume(v), veh/h	1268	0	1391	30	0	452	36	0	127	7	0	590
Grp Sat Flow(s),veh/h/ln	1645	0	1724	1645	0	1726	1645	0	1607	1645	0	1489
Q Serve(g_s), s	57.0	0.0	78.0	2.1	0.0	25.8	2.6	0.0	9.3	0.5	0.0	18.0
Cycle Q Clear(g_c), s	57.0	0.0	78.0	2.1	0.0	25.8	2.6	0.0	9.3	0.5	0.0	18.0
Prop In Lane	1.00		0.01	1.00		0.00	1.00		0.43	1.00		0.91
Lane Grp Cap(c), veh/h	781	0	1121	65	0	371	44	0	154	133	0	223
V/C Ratio(X)	1.62	0.00	1.24	0.46	0.00	1.22	0.81	0.00	0.83	0.05	0.00	2.64
Avail Cap(c_a), veh/h	781	0	1121	65	0	371	55	0	241	133	0	223
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	31.5	0.0	21.0	56.3	0.0	47.1	58.1	0.0	53.3	50.9	0.0	51.0
Incr Delay (d2), s/veh	286.1	0.0	116.3	4.9	0.0	120.7	51.2	0.0	12.3	0.2	0.0	751.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	87.9	0.0	72.9	1.1	0.0	24.7	1.8	0.0	4.7	0.2	0.0	54.0
LnGrp Delay(d),s/veh	317.6	0.0	137.3	61.3	0.0	167.8	109.3	0.0	65.6	51.0	0.0	802.5
LnGrp LOS	F		F	E		F	F		E	D		F
Approach Vol, veh/h		2659			482			163			597	
Approach Delay, s/veh		223.3			161.2			75.2			793.7	
Approach LOS		F			F			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.7	15.5	8.8	82.0	7.2	22.0	61.0	29.8
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	4.0	18.0	4.0	78.0	4.0	18.0	57.0	25.0
Max Q Clear Time (g_c+I1), s	2.5	11.3	4.1	80.0	4.6	20.0	59.0	27.8
Green Ext Time (p_c), s	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	296.7
HCM 2010 LOS	F

Intersection	
Int Delay, s/veh	7.5

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	103	1799	779	7	16	183
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	Yield
Storage Length	90	-	-	-	0	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	112	1955	847	8	17	199

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	854	0	-	0	3030	851
Stage 1	-	-	-	-	851	-
Stage 2	-	-	-	-	2179	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	752	-	-	-	~ 13	348
Stage 1	-	-	-	-	405	-
Stage 2	-	-	-	-	88	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	752	-	-	-	~ 11	348
Mov Cap-2 Maneuver	-	-	-	-	~ 11	-
Stage 1	-	-	-	-	405	-
Stage 2	-	-	-	-	75	-

Approach	EB	WB	SB
HCM Control Delay, s	0.6	0	103.4
HCM LOS			F

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1	SBLn2
Capacity (veh/h)	752	-	-	-	11	348
HCM Lane V/C Ratio	0.149	-	-	-	1.581	0.572
HCM Control Delay (s)	10.6	-	-	-	$ 962.9	28.3
HCM Lane LOS	B	-	-	-	F	D
HCM 95th %tile Q(veh)	0.5	-	-	-	3	3.4

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Intersection	
Intersection Delay, s/veh	12
Intersection LOS	B

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	2	41	20	0	2	35	38	0	11	127	3
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	2	45	22	0	2	38	41	0	12	138	3
Number of Lanes	0	1	1	0	0	0	1	1	0	1	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	2	2	2
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	2	2	2
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	2	2	2
HCM Control Delay	9.7	9.2	9.8
HCM LOS	A	A	A

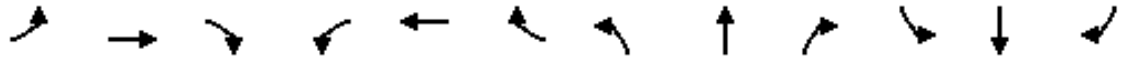
Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1	SBLn2
Vol Left, %	100%	0%	100%	0%	5%	0%	100%	0%
Vol Thru, %	0%	98%	0%	67%	95%	0%	0%	99%
Vol Right, %	0%	2%	0%	33%	0%	100%	0%	1%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	11	130	2	61	37	38	75	350
LT Vol	11	0	2	0	2	0	75	0
Through Vol	0	127	0	41	35	0	0	348
RT Vol	0	3	0	20	0	38	0	2
Lane Flow Rate	12	141	2	66	40	41	82	380
Geometry Grp	7	7	7	7	7	7	7	7
Degree of Util (X)	0.02	0.218	0.004	0.112	0.071	0.064	0.13	0.554
Departure Headway (Hd)	6.074	5.553	6.833	6.094	6.337	5.601	5.753	5.247
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	586	642	520	583	561	634	620	685
Service Time	3.85	3.329	4.622	3.883	4.123	3.387	3.512	3.006
HCM Lane V/C Ratio	0.02	0.22	0.004	0.113	0.071	0.065	0.132	0.555
HCM Control Delay	9	9.9	9.6	9.7	9.6	8.8	9.4	14.4
HCM Lane LOS	A	A	A	A	A	A	A	B
HCM 95th-tile Q	0.1	0.8	0	0.4	0.2	0.2	0.4	3.4

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	75	348	2
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10
Mvmt Flow	0	82	378	2
Number of Lanes	0	1	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	2
Conflicting Approach Left	WB
Conflicting Lanes Left	2
Conflicting Approach Right	EB
Conflicting Lanes Right	2
HCM Control Delay	13.5
HCM LOS	B

Lane



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	44	318	0	91	253	159	6	262	63	97	298	45
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	48	346	0	99	275	173	7	285	68	105	324	49
Adj No. of Lanes	1	1	0	1	1	0	1	2	1	1	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	66	557	0	124	355	224	12	494	221	158	785	351
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.04	0.32	0.00	0.08	0.36	0.36	0.01	0.15	0.15	0.10	0.24	0.24
Ln Grp Delay, s/veh	35.5	14.0	0.0	31.5	0.0	15.1	58.0	18.9	9.2	24.4	14.8	13.7
Ln Grp LOS	D	B		C		B	E	B	A	C	B	B
Approach Vol, veh/h		394			547			360			478	
Approach Delay, s/veh		16.7			18.1			17.8			16.8	
Approach LOS		B			B			B			B	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	5	6	7	8
Case No	3.0	2.0	2.0	4.0	2.0	3.0	2.0	4.0
Phs Duration (G+Y+Rc), s	10.8	8.3	7.4	18.5	4.3	14.8	5.8	20.1
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	19.0	12.0	11.0	32.0	4.0	27.0	7.0	36.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	5.6	4.8	4.7	9.6	2.2	5.8	3.3	13.1
Green Ext Time (g_e), s	1.1	1.1	0.1	3.0	0.0	1.8	0.0	3.0
Prob of Phs Call (p_c)	1.00	0.73	0.71	1.00	0.08	1.00	0.45	1.00
Prob of Max Out (p_x)	0.01	0.25	0.12	0.01	1.00	0.00	1.00	0.01

Left-Turn Movement Data								
Assigned Mvmt		1	3		5		7	
Mvmt Sat Flow, veh/h		1645	1645		1645		1645	

Through Movement Data								
Assigned Mvmt	2			4		6		8
Mvmt Sat Flow, veh/h	3282			1727		3282		993

Right-Turn Movement Data								
Assigned Mvmt	12			14		16		18
Mvmt Sat Flow, veh/h	1468			0		1468		624

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	5	0	7	0
Lane Assignment		(Prot)	(Prot)		(Prot)		(Prot)	
Lanes in Grp	0	1	1	0	1	0	1	0

Grp Vol (v), veh/h	0	105	99	0	7	0	48	0
Grp Sat Flow (s), veh/h/ln	0	1645	1645	0	1645	0	1645	0
Q Serve Time (g_s), s	0.0	2.8	2.7	0.0	0.2	0.0	1.3	0.0
Cycle Q Clear Time (g_c), s	0.0	2.8	2.7	0.0	0.2	0.0	1.3	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	158	124	0	12	0	66	0
V/C Ratio (X)	0.00	0.66	0.80	0.00	0.57	0.00	0.73	0.00
Avail Cap (c_a), veh/h	0	438	402	0	146	0	256	0
Upstream Filter (I)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	19.7	20.5	0.0	22.3	0.0	21.4	0.0
Incr Delay (d2), s/veh	0.0	4.7	11.0	0.0	35.7	0.0	14.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	24.4	31.5	0.0	58.0	0.0	35.5	0.0
1st-Term Q (Q1), veh/ln	0.0	1.3	1.2	0.0	0.1	0.0	0.6	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.2	0.4	0.0	0.1	0.0	0.3	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	1.5	1.6	0.0	0.2	0.0	0.8	0.0
%ile Storage Ratio (RQ%)	0.00	0.17	0.24	0.00	0.14	0.00	0.26	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	0	6	0	8
Lane Assignment	T			T		T		
Lanes in Grp	2	0	0	1	0	2	0	0
Grp Vol (v), veh/h	285	0	0	346	0	324	0	0
Grp Sat Flow (s), veh/h/ln	1641	0	0	1727	0	1641	0	0
Q Serve Time (g_s), s	3.6	0.0	0.0	7.6	0.0	3.8	0.0	0.0
Cycle Q Clear Time (g_c), s	3.6	0.0	0.0	7.6	0.0	3.8	0.0	0.0
Lane Grp Cap (c), veh/h	494	0	0	557	0	785	0	0
V/C Ratio (X)	0.58	0.00	0.00	0.62	0.00	0.41	0.00	0.00
Avail Cap (c_a), veh/h	1385	0	0	1227	0	1968	0	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00
Uniform Delay (d1), s/veh	17.8	0.0	0.0	12.9	0.0	14.5	0.0	0.0
Incr Delay (d2), s/veh	1.1	0.0	0.0	1.1	0.0	0.3	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	18.9	0.0	0.0	14.0	0.0	14.8	0.0	0.0
1st-Term Q (Q1), veh/ln	1.6	0.0	0.0	3.6	0.0	1.7	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	1.7	0.0	0.0	3.7	0.0	1.7	0.0	0.0
%ile Storage Ratio (RQ%)	0.06	0.00	0.00	0.15	0.00	0.01	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	0	14	0	16	0	18
Lane Assignment	R					R		T+R
Lanes in Grp	1	0	0	0	0	1	0	1
Grp Vol (v), veh/h	68	0	0	0	0	49	0	448
Grp Sat Flow (s), veh/h/ln	1468	0	0	0	0	1468	0	1617
Q Serve Time (g_s), s	1.3	0.0	0.0	0.0	0.0	1.2	0.0	11.1
Cycle Q Clear Time (g_c), s	1.3	0.0	0.0	0.0	0.0	1.2	0.0	11.1
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.39
Lane Grp Cap (c), veh/h	221	0	0	0	0	351	0	579
V/C Ratio (X)	0.31	0.00	0.00	0.00	0.00	0.14	0.00	0.77
Avail Cap (c_a), veh/h	619	0	0	0	0	880	0	1293
Upstream Filter (I)	1.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	8.4	0.0	0.0	0.0	0.0	13.5	0.0	12.8
Incr Delay (d2), s/veh	0.8	0.0	0.0	0.0	0.0	0.2	0.0	2.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	9.2	0.0	0.0	0.0	0.0	13.7	0.0	15.1
1st-Term Q (Q1), veh/ln	0.5	0.0	0.0	0.0	0.0	0.5	0.0	4.9
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.6	0.0	0.0	0.0	0.0	0.5	0.0	5.2
%ile Storage Ratio (RQ%)	0.09	0.00	0.00	0.00	0.00	0.33	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	17.4
HCM 2010 LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	44	318	0	91	253	159	6	262	63	97	298	45
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	48	346	0	99	275	173	7	285	68	105	324	49
Adj No. of Lanes	1	1	0	1	1	0	1	2	1	1	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	66	557	0	124	355	224	12	494	221	158	785	351
Arrive On Green	0.04	0.32	0.00	0.08	0.36	0.36	0.01	0.15	0.15	0.10	0.24	0.24
Sat Flow, veh/h	1645	1727	0	1645	993	624	1645	3282	1468	1645	3282	1468
Grp Volume(v), veh/h	48	346	0	99	0	448	7	285	68	105	324	49
Grp Sat Flow(s),veh/h/ln	1645	1727	0	1645	0	1617	1645	1641	1468	1645	1641	1468
Q Serve(g_s), s	1.3	7.6	0.0	2.7	0.0	11.1	0.2	3.6	1.3	2.8	3.8	1.2
Cycle Q Clear(g_c), s	1.3	7.6	0.0	2.7	0.0	11.1	0.2	3.6	1.3	2.8	3.8	1.2
Prop In Lane	1.00		0.00	1.00		0.39	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	66	557	0	124	0	579	12	494	221	158	785	351
V/C Ratio(X)	0.73	0.62	0.00	0.80	0.00	0.77	0.57	0.58	0.31	0.66	0.41	0.14
Avail Cap(c_a), veh/h	256	1227	0	402	0	1293	146	1385	619	438	1968	880
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	21.4	12.9	0.0	20.5	0.0	12.8	22.3	17.8	8.4	19.7	14.5	13.5
Incr Delay (d2), s/veh	14.1	1.1	0.0	11.0	0.0	2.2	35.7	1.1	0.8	4.7	0.3	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	3.7	0.0	1.6	0.0	5.2	0.2	1.7	0.6	1.5	1.7	0.5
LnGrp Delay(d),s/veh	35.5	14.0	0.0	31.5	0.0	15.1	58.0	18.9	9.2	24.4	14.8	13.7
LnGrp LOS	D	B		C		B	E	B	A	C	B	B
Approach Vol, veh/h		394			547			360			478	
Approach Delay, s/veh		16.7			18.1			17.8			16.8	
Approach LOS		B			B			B			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.3	10.8	7.4	18.5	4.3	14.8	5.8	20.1
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	4.3	19.0	11.0	32.0	4.0	27.0	7.0	36.0
Max Q Clear Time (g_c+I1), s	4.8	5.6	4.7	9.6	2.2	5.8	3.3	13.1
Green Ext Time (p_c), s	1.1	1.1	0.1	3.0	0.0	1.8	0.0	3.0

Intersection Summary	
HCM 2010 Ctrl Delay	17.4
HCM 2010 LOS	B

Intersection	
Int Delay, s/veh	1.2

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	0	24	32	222	118	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	28	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	26	35	241	128	2

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	440	129	130	0	-	0
Stage 1	129	-	-	-	-	-
Stage 2	311	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	560	900	1407	-	-	-
Stage 1	878	-	-	-	-	-
Stage 2	725	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	546	900	1407	-	-	-
Mov Cap-2 Maneuver	546	-	-	-	-	-
Stage 1	878	-	-	-	-	-
Stage 2	707	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	9.1	1	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1407	-	900	-	-
HCM Lane V/C Ratio	0.025	-	0.029	-	-
HCM Control Delay (s)	7.6	-	9.1	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0.1	-	0.1	-	-

Intersection	
Int Delay, s/veh	186.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	348	10	153	54	12	108	35	289	8	14	277	52
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	378	11	166	59	13	117	38	314	9	15	301	57

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	820	759	329	843	783	318	358	0	0	323	0	0
Stage 1	360	360	-	395	395	-	-	-	-	-	-	-
Stage 2	460	399	-	448	388	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.2	6.6	6.3	4.2	-	-	4.2	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.59	4.09	3.39	2.29	-	-	2.29	-	-
Pot Cap-1 Maneuver	~ 285	327	694	275	316	704	1158	-	-	1193	-	-
Stage 1	642	613	-	614	591	-	-	-	-	-	-	-
Stage 2	566	589	-	575	595	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	~ 220	309	694	195	299	704	1158	-	-	1193	-	-
Mov Cap-2 Maneuver	~ 220	309	-	195	299	-	-	-	-	-	-	-
Stage 1	616	603	-	589	567	-	-	-	-	-	-	-
Stage 2	442	565	-	422	585	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	$ 488.3	24.5	0.9	0.3
HCM LOS	F	C		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1158	-	-	279	370	1193	-	-
HCM Lane V/C Ratio	0.033	-	-	1.991	0.511	0.013	-	-
HCM Control Delay (s)	8.2	0	-	$ 488.3	24.5	8.1	0	-
HCM Lane LOS	A	A	-	F	C	A	A	-
HCM 95th %tile Q(veh)	0.1	-	-	39.8	2.8	0	-	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Intersection	
Intersection Delay, s/veh	57.1
Intersection LOS	F

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	15	14	11	0	71	57	255	0	15	315	178
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	16	15	12	0	77	62	277	0	16	342	193
Number of Lanes	0	0	1	0	0	0	1	1	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	2	1	1
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	1	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	1	2
HCM Control Delay	13.1	17.5	63.1
HCM LOS	B	C	F

Lane	NBLn1	EBLn1	WBLn1	WBLn2	SBLn1
Vol Left, %	3%	38%	55%	0%	57%
Vol Thru, %	62%	35%	45%	0%	42%
Vol Right, %	35%	28%	0%	100%	1%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	508	40	128	255	1566
LT Vol	15	15	71	0	888
Through Vol	315	14	57	0	660
RT Vol	178	11	0	255	18
Lane Flow Rate	552	43	139	277	1702
Geometry Grp	2	5	7	7	2
Degree of Util (X)	0.997	0.108	0.318	0.559	1
Departure Headway (Hd)	6.499	8.909	8.233	7.256	6.893
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	558	401	437	499	545
Service Time	4.545	6.991	5.97	4.992	4.967
HCM Lane V/C Ratio	0.989	0.107	0.318	0.555	3.123
HCM Control Delay	63.1	13.1	14.8	18.8	66
HCM Lane LOS	F	B	B	C	F
HCM 95th-tile Q	14.2	0.4	1.3	3.4	13.9

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	888	660	18
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10
Mvmt Flow	0	965	717	20
Number of Lanes	0	0	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	2
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	66
HCM LOS	F

Lane



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Volume (veh/h)	927	43	17	769	533	327
Number	7	14	5	2	6	16
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00	1.00	1.00			1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1900	1727	1727	1727	1727
Adj Flow Rate, veh/h	1008	47	18	836	579	355
Adj No. of Lanes	0	0	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	10	10	10	10
Opposing Right Turn Influence	Yes		Yes			
Cap, veh/h	807	38	59	720	601	510
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.52	0.52	0.04	0.42	0.35	0.35
Ln Grp Delay, s/veh	150.9	0.0	59.3	122.6	67.3	41.3
Ln Grp LOS	F		E	F	E	D
Approach Vol, veh/h	1056			854	934	
Approach Delay, s/veh	150.9			121.3	57.4	
Approach LOS	F			F	E	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2		4	6	5		
Case No		4.0		12.0	7.0	2.0		
Phs Duration (G+Y+Rc), s		54.0		66.0	45.7	8.3		
Change Period (Y+Rc), s		4.0		4.0	4.0	4.0		
Max Green (Gmax), s		50.0		62.0	42.0	4.0		
Max Allow Headway (MAH), s		4.0		4.1	4.1	4.0		
Max Q Clear (g_c+I1), s		52.0		64.0	41.5	3.3		
Green Ext Time (g_e), s		0.0		0.0	0.3	0.3		
Prob of Phs Call (p_c)		1.00		1.00	1.00	0.45		
Prob of Max Out (p_x)		1.00		1.00	1.00	1.00		

Left-Turn Movement Data								
Assigned Mvmt				7	1	5		
Mvmt Sat Flow, veh/h				1562	0	1645		

Through Movement Data								
Assigned Mvmt		2		4	6			
Mvmt Sat Flow, veh/h		1727		2	1727			

Right-Turn Movement Data								
Assigned Mvmt		12		14	16			
Mvmt Sat Flow, veh/h		0		73	1468			

Left Lane Group Data								
Assigned Mvmt	0	0	0	7	1	5	0	0
Lane Assignment				L+T+R		(Prot)		
Lanes in Grp	0	0	0	1	0	1	0	0

Grp Vol (v), veh/h	0	0	0	1056	0	18	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1636	0	1645	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	62.0	0.0	1.3	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	62.0	0.0	1.3	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	41.7	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.00	0.00	0.95	0.00	1.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	0	0	845	0	59	0	0
V/C Ratio (X)	0.00	0.00	0.00	1.25	0.00	0.31	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	845	0	59	0	0
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	29.0	0.0	56.4	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	121.9	0.0	2.9	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	150.9	0.0	59.3	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	27.7	0.0	0.6	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	28.6	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	56.3	0.0	0.6	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.14	0.00	0.15	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	52.6	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	6	0	0	0
Lane Assignment		T			T			
Lanes in Grp	0	1	0	0	1	0	0	0
Grp Vol (v), veh/h	0	836	0	0	579	0	0	0
Grp Sat Flow (s), veh/h/ln	0	1727	0	0	1727	0	0	0
Q Serve Time (g_s), s	0.0	50.0	0.0	0.0	39.5	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	50.0	0.0	0.0	39.5	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	720	0	0	601	0	0	0
V/C Ratio (X)	0.00	1.16	0.00	0.00	0.96	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	720	0	0	605	0	0	0
Upstream Filter (I)	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	35.0	0.0	0.0	38.4	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	87.6	0.0	0.0	28.9	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	122.6	0.0	0.0	67.3	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	23.8	0.0	0.0	18.8	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	17.5	0.0	0.0	4.8	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	41.3	0.0	0.0	23.6	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.22	0.00	0.00	0.34	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	29.1	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	16	0	0	0
Lane Assignment					R			
Lanes in Grp	0	0	0	0	1	0	0	0
Grp Vol (v), veh/h	0	0	0	0	355	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	1468	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	25.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	25.0	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.00	0.00	0.04	1.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	0	0	0	510	0	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	0	514	0	0	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	33.7	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	7.6	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	41.3	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	10.1	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	11.1	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	6.14	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	111.3
HCM 2010 LOS	F

Notes

User approved volume balancing among the lanes for turning movement.



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Volume (veh/h)	927	43	17	769	533	327
Number	7	14	5	2	6	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00			1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1900	1727	1727	1727	1727
Adj Flow Rate, veh/h	1008	47	18	836	579	355
Adj No. of Lanes	0	0	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	10	10	10	10
Cap, veh/h	807	38	59	720	601	510
Arrive On Green	0.52	0.52	0.04	0.42	0.35	0.35
Sat Flow, veh/h	1562	73	1645	1727	1727	1468
Grp Volume(v), veh/h	1056	0	18	836	579	355
Grp Sat Flow(s),veh/h/ln	1636	0	1645	1727	1727	1468
Q Serve(g_s), s	62.0	0.0	1.3	50.0	39.5	25.0
Cycle Q Clear(g_c), s	62.0	0.0	1.3	50.0	39.5	25.0
Prop In Lane	0.95	0.04	1.00			1.00
Lane Grp Cap(c), veh/h	845	0	59	720	601	510
V/C Ratio(X)	1.25	0.00	0.31	1.16	0.96	0.70
Avail Cap(c_a), veh/h	845	0	59	720	605	514
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	29.0	0.0	56.4	35.0	38.4	33.7
Incr Delay (d2), s/veh	121.9	0.0	2.9	87.6	28.9	7.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	56.3	0.0	0.6	41.3	23.6	11.1
LnGrp Delay(d),s/veh	150.9	0.0	59.3	122.6	67.3	41.3
LnGrp LOS	F		E	F	E	D
Approach Vol, veh/h	1056			854	934	
Approach Delay, s/veh	150.9			121.3	57.4	
Approach LOS	F			F	E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4	5	6		
Phs Duration (G+Y+Rc), s		54.0		66.0	8.3	45.7		
Change Period (Y+Rc), s		4.0		4.0	4.0	4.0		
Max Green Setting (Gmax), s		50.0		62.0	4.0	42.0		
Max Q Clear Time (g_c+I1), s		52.0		64.0	3.3	41.5		
Green Ext Time (p_c), s		0.0		0.0	0.3	0.3		

Intersection Summary	
HCM 2010 Ctrl Delay	111.3
HCM 2010 LOS	F

Notes

User approved volume balancing among the lanes for turning movement.

Intersection	
Int Delay, s/veh	893.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	27	1864	2	5	1031	97	0	0	0	151	2	30
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	200	-	-	200	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	29	2026	2	5	1121	105	0	0	0	164	2	33

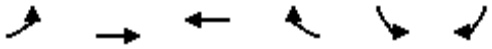
Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	1226	0	0	2028	0	0	3288	3323	2027	3270	3271	1173
Stage 1	-	-	-	-	-	-	2086	2086	-	1184	1184	-
Stage 2	-	-	-	-	-	-	1202	1237	-	2086	2087	-
Critical Hdwy	4.2	-	-	4.2	-	-	7.2	6.6	6.3	7.2	6.6	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.59	4.09	3.39	3.59	4.09	3.39
Pot Cap-1 Maneuver	542	-	-	263	-	-	5	8	69	~ 5	8	225
Stage 1	-	-	-	-	-	-	66	90	-	222	254	-
Stage 2	-	-	-	-	-	-	217	239	-	~ 66	90	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	542	-	-	263	-	-	3	7	69	~ 5	7	225
Mov Cap-2 Maneuver	-	-	-	-	-	-	3	7	-	~ 5	7	-
Stage 1	-	-	-	-	-	-	62	85	-	210	249	-
Stage 2	-	-	-	-	-	-	180	234	-	~ 62	85	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.2	0.1	0	$ 15667.7
HCM LOS			A	F

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	-	542	-	-	263	-	-	6
HCM Lane V/C Ratio	-	0.054	-	-	0.021	-	-	33.152
HCM Control Delay (s)	0	12	-	-	19	-	-	$ 15667.7
HCM Lane LOS	A	B	-	-	C	-	-	F
HCM 95th %tile Q(veh)	-	0.2	-	-	0.1	-	-	26.9

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (veh/h)	379	889	145	94	254	2
Number	7	4	8	18	1	16
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00			1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900
Adj Flow Rate, veh/h	412	966	158	102	276	2
Adj No. of Lanes	1	1	1	1	0	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	0	0
Opposing Right Turn Influence	Yes				Yes	
Cap, veh/h	763	1125	1125	956	340	2
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.65	0.65	0.65	0.65	0.21	0.21
Ln Grp Delay, s/veh	7.6	10.4	3.9	3.8	26.2	0.0
Ln Grp LOS	A	B	A	A	C	
Approach Vol, veh/h		1378	260		279	
Approach Delay, s/veh		9.6	3.9		26.2	
Approach LOS		A	A		C	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	6			4				8
Case No	12.0			6.0				7.0
Phs Duration (G+Y+Rc), s	16.0			41.3				41.3
Change Period (Y+Rc), s	4.0			4.0				4.0
Max Green (Gmax), s	22.0			60.0				60.0
Max Allow Headway (MAH), s	4.1			4.3				4.3
Max Q Clear (g_c+I1), s	11.3			27.4				4.0
Green Ext Time (g_e), s	0.7			10.0				10.8
Prob of Phs Call (p_c)	1.00			1.00				1.00
Prob of Max Out (p_x)	0.02			0.12				0.02

Left-Turn Movement Data								
Assigned Mvmt	1			7				3
Mvmt Sat Flow, veh/h	1626			1034				0

Through Movement Data								
Assigned Mvmt	6			4				8
Mvmt Sat Flow, veh/h	6			1727				1727

Right-Turn Movement Data								
Assigned Mvmt	16			14				18
Mvmt Sat Flow, veh/h	12			0				1468

Left Lane Group Data								
Assigned Mvmt	1	0	0	7	0	0	0	3
Lane Assignment	L+T+R							
Lanes in Grp	1	0	0	1	0	0	0	0

Grp Vol (v), veh/h	279	0	0	412	0	0	0	0
Grp Sat Flow (s), veh/h/ln	1644	0	0	1034	0	0	0	0
Q Serve Time (g_s), s	9.3	0.0	0.0	14.6	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	9.3	0.0	0.0	16.6	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	1034	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	37.3	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	35.3	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	14.6	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.3
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.99	0.00	0.00	1.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	344	0	0	763	0	0	0	0
V/C Ratio (X)	0.81	0.00	0.00	0.54	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	631	0	0	1171	0	0	0	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	21.6	0.0	0.0	7.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	4.6	0.0	0.0	0.6	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	26.2	0.0	0.0	7.6	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	4.2	0.0	0.0	4.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.4	0.0	0.0	0.1	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	4.6	0.0	0.0	4.1	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	6	0	0	4	0	0	0	8
Lane Assignment				T				T
Lanes in Grp	0	0	0	1	0	0	0	1
Grp Vol (v), veh/h	0	0	0	966	0	0	0	158
Grp Sat Flow (s), veh/h/ln	0	0	0	1727	0	0	0	1727
Q Serve Time (g_s), s	0.0	0.0	0.0	25.4	0.0	0.0	0.0	2.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	25.4	0.0	0.0	0.0	2.0
Lane Grp Cap (c), veh/h	0	0	0	1125	0	0	0	1125
V/C Ratio (X)	0.00	0.00	0.00	0.86	0.00	0.00	0.00	0.14
Avail Cap (c_a), veh/h	0	0	0	1808	0	0	0	1808
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	7.9	0.0	0.0	0.0	3.8
Incr Delay (d2), s/veh	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	10.4	0.0	0.0	0.0	3.9
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	11.8	0.0	0.0	0.0	0.9
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0

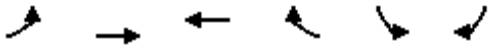
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	12.6	0.0	0.0	0.0	0.9
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	16	0	0	14	0	0	0	18
Lane Assignment								R
Lanes in Grp	0	0	0	0	0	0	0	1
Grp Vol (v), veh/h	0	0	0	0	0	0	0	102
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	1468
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.01	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	956
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	1537
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	11.2
HCM 2010 LOS	B

Notes

User approved volume balancing among the lanes for turning movement.



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (veh/h)	379	889	145	94	254	2
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900
Adj Flow Rate, veh/h	412	966	158	102	276	2
Adj No. of Lanes	1	1	1	1	0	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	0	0
Cap, veh/h	763	1125	1125	956	340	2
Arrive On Green	0.65	0.65	0.65	0.65	0.21	0.21
Sat Flow, veh/h	1034	1727	1727	1468	1626	12
Grp Volume(v), veh/h	412	966	158	102	279	0
Grp Sat Flow(s),veh/h/ln	1034	1727	1727	1468	1644	0
Q Serve(g_s), s	14.6	25.4	2.0	1.5	9.3	0.0
Cycle Q Clear(g_c), s	16.6	25.4	2.0	1.5	9.3	0.0
Prop In Lane	1.00			1.00	0.99	0.01
Lane Grp Cap(c), veh/h	763	1125	1125	956	344	0
V/C Ratio(X)	0.54	0.86	0.14	0.11	0.81	0.00
Avail Cap(c_a), veh/h	1171	1808	1808	1537	631	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	7.0	7.9	3.8	3.7	21.6	0.0
Incr Delay (d2), s/veh	0.6	2.5	0.1	0.0	4.6	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.1	12.6	0.9	0.6	4.6	0.0
LnGrp Delay(d),s/veh	7.6	10.4	3.9	3.8	26.2	0.0
LnGrp LOS	A	B	A	A	C	
Approach Vol, veh/h		1378	260		279	
Approach Delay, s/veh		9.6	3.9		26.2	
Approach LOS		A	A		C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		8
Phs Duration (G+Y+Rc), s				41.3		16.0		41.3
Change Period (Y+Rc), s				4.0		4.0		4.0
Max Green Setting (Gmax), s				60.0		22.0		60.0
Max Q Clear Time (g_c+I1), s				27.4		11.3		4.0
Green Ext Time (p_c), s				10.0		0.7		10.8

Intersection Summary	
HCM 2010 Ctrl Delay	11.2
HCM 2010 LOS	B

Notes

User approved volume balancing among the lanes for turning movement.

Intersection	
Int Delay, s/veh	3.9

Movement	SET	SER	NWL	NWT	NEL	NER
Vol, veh/h	93	41	92	97	0	94
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	101	45	100	105	0	102

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	146	0	428	123
Stage 1	-	-	-	-	123	-
Stage 2	-	-	-	-	305	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	1388	-	569	907
Stage 1	-	-	-	-	883	-
Stage 2	-	-	-	-	730	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1388	-	525	907
Mov Cap-2 Maneuver	-	-	-	-	525	-
Stage 1	-	-	-	-	883	-
Stage 2	-	-	-	-	674	-

Approach	SE	NW	NE
HCM Control Delay, s	0	3.8	9.5
HCM LOS			A

Minor Lane/Major Mvmt	NELn1	NWL	NWT	SET	SER
Capacity (veh/h)	907	1388	-	-	-
HCM Lane V/C Ratio	0.113	0.072	-	-	-
HCM Control Delay (s)	9.5	7.8	0	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0.4	0.2	-	-	-

Intersection	
Int Delay, s/veh	4.4

Movement	EBL	EBT	WBT	WBR	SEL	SER
Vol, veh/h	193	566	144	151	57	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	210	615	157	164	62	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	321	0	-	0	1274	239
Stage 1	-	-	-	-	239	-
Stage 2	-	-	-	-	1035	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1195	-	-	-	178	781
Stage 1	-	-	-	-	782	-
Stage 2	-	-	-	-	331	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1195	-	-	-	130	781
Mov Cap-2 Maneuver	-	-	-	-	130	-
Stage 1	-	-	-	-	782	-
Stage 2	-	-	-	-	243	-

Approach	EB	WB	SE
HCM Control Delay, s	2.2	0	55.7
HCM LOS			F

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SELn1	SELn2
Capacity (veh/h)	1195	-	-	-	130	-
HCM Lane V/C Ratio	0.176	-	-	-	0.477	-
HCM Control Delay (s)	8.7	0	-	-	55.7	0
HCM Lane LOS	A	A	-	-	F	A
HCM 95th %tile Q(veh)	0.6	-	-	-	2.2	-

Intersection	
Int Delay, s/veh	8.2

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	4	57	11	42	280	7
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	4	62	12	46	304	8

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	58	0	-	0	106	35
Stage 1	-	-	-	-	35	-
Stage 2	-	-	-	-	71	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1496	-	-	-	873	1015
Stage 1	-	-	-	-	967	-
Stage 2	-	-	-	-	932	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1496	-	-	-	870	1015
Mov Cap-2 Maneuver	-	-	-	-	870	-
Stage 1	-	-	-	-	967	-
Stage 2	-	-	-	-	929	-

Approach	EB	WB	SB
HCM Control Delay, s	0.5	0	11.4
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1496	-	-	-	873
HCM Lane V/C Ratio	0.003	-	-	-	0.357
HCM Control Delay (s)	7.4	0	-	-	11.4
HCM Lane LOS	A	A	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	1.6

Intersection	
Int Delay, s/veh	81.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	0	115	68	2	7	29	42	85	8	402	479	2
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	170	-	-	162	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	125	74	2	8	32	46	92	9	437	521	2

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	1604	1588	522	1683	1585	97	523	0	0	101	0	0
Stage 1	1396	1396	-	188	188	-	-	-	-	-	-	-
Stage 2	208	192	-	1495	1397	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.2	6.6	6.3	4.2	-	-	4.2	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.59	4.09	3.39	2.29	-	-	2.29	-	-
Pot Cap-1 Maneuver	81	~ 103	539	71	104	938	1004	-	-	1443	-	-
Stage 1	168	200	-	796	730	-	-	-	-	-	-	-
Stage 2	776	727	-	147	200	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	53	~ 69	539	-	69	938	1004	-	-	1443	-	-
Mov Cap-2 Maneuver	53	~ 69	-	-	69	-	-	-	-	-	-	-
Stage 1	160	139	-	760	697	-	-	-	-	-	-	-
Stage 2	708	694	-	9	139	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	$ 531		2.7	3.9
HCM LOS	F	-		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1004	-	-	102	-	1443	-	-
HCM Lane V/C Ratio	0.045	-	-	1.95	-	0.303	-	-
HCM Control Delay (s)	8.8	-	-	$ 531	-	8.6	-	-
HCM Lane LOS	A	-	-	F	-	A	-	-
HCM 95th %tile Q(veh)	0.1	-	-	16.6	-	1.3	-	-

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Intersection	
Intersection Delay, s/veh	17.5
Intersection LOS	C

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	SBU	SBL	SBR
Vol, veh/h	0	0	293	0	0	0	97	0	0	0	2
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	0	318	0	0	0	105	0	0	0	2
Number of Lanes	0	0	1	0	0	0	1	0	0	1	0

Approach	EB	WB
Opposing Approach	WB	EB
Opposing Lanes	1	1
Conflicting Approach Left	SB	
Conflicting Lanes Left	1	0
Conflicting Approach Right		SB
Conflicting Lanes Right	0	1
HCM Control Delay	14.2	10.3
HCM LOS	B	B

Lane	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	0%	100%
Vol Thru, %	100%	100%	0%
Vol Right, %	0%	0%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	293	97	432
LT Vol	0	0	430
Through Vol	293	97	0
RT Vol	0	0	2
Lane Flow Rate	318	105	470
Geometry Grp	1	1	1
Degree of Util (X)	0.5	0.176	0.718
Departure Headway (Hd)	5.651	6.011	5.502
Convergence, Y/N	Yes	Yes	Yes
Cap	637	596	657
Service Time	3.689	4.059	3.53
HCM Lane V/C Ratio	0.499	0.176	0.715
HCM Control Delay	14.2	10.3	21.3
HCM Lane LOS	B	B	C
HCM 95th-tile Q	2.8	0.6	6

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	NWU	NWL	NWR
Vol, veh/h	0	0	0
Peak Hour Factor	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10
Mvmt Flow	0	0	0
Number of Lanes	0	0	0

Approach	
Opposing Approach	
Opposing Lanes	
Conflicting Approach Left	
Conflicting Lanes Left	
Conflicting Approach Right	
Conflicting Lanes Right	
HCM Control Delay	
HCM LOS	

Lane

Intersection	
Int Delay, s/veh	1.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBR	SEL	SER
Vol, veh/h	0	251	0	0	128	0	25	34	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	None	-	-
Storage Length	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	0	-	0	-
Grade, %	-	0	-	-	0	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	273	0	0	139	0	27	37	0	0

Major/Minor	Major1			Major2			Minor1		
Conflicting Flow All	139	0	0	273	0	0	412	273	
Stage 1	-	-	-	-	-	-	273	-	
Stage 2	-	-	-	-	-	-	139	-	
Critical Hdwy	4.2	-	-	4.2	-	-	6.5	6.3	
Critical Hdwy Stg 1	-	-	-	-	-	-	5.5	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	5.5	-	
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.59	3.39	
Pot Cap-1 Maneuver	1397	-	-	1245	-	-	581	747	
Stage 1	-	-	-	-	-	-	755	-	
Stage 2	-	-	-	-	-	-	868	-	
Platoon blocked, %		-	-		-	-			
Mov Cap-1 Maneuver	1397	-	-	1245	-	-	581	747	
Mov Cap-2 Maneuver	-	-	-	-	-	-	581	-	
Stage 1	-	-	-	-	-	-	755	-	
Stage 2	-	-	-	-	-	-	868	-	

Approach	EB	WB	NB
HCM Control Delay, s	0	0	10.3
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR
Capacity (veh/h)	747	1397	-	-	1245	-	-
HCM Lane V/C Ratio	0.086	-	-	-	-	-	-
HCM Control Delay (s)	10.3	0	-	-	0	-	-
HCM Lane LOS	B	A	-	-	A	-	-
HCM 95th %tile Q(veh)	0.3	0	-	-	0	-	-

Intersection	
Int Delay, s/veh	3.3

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	3	174	102	418	556	14
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	329	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	3	189	111	454	604	15

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1288	612	620	0	-	0
Stage 1	612	-	-	-	-	-
Stage 2	676	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	174	479	923	-	-	-
Stage 1	526	-	-	-	-	-
Stage 2	491	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	153	479	923	-	-	-
Mov Cap-2 Maneuver	153	-	-	-	-	-
Stage 1	526	-	-	-	-	-
Stage 2	432	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	18.2	1.9	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	923	-	462	-	-
HCM Lane V/C Ratio	0.12	-	0.416	-	-
HCM Control Delay (s)	9.4	-	18.2	-	-
HCM Lane LOS	A	-	C	-	-
HCM 95th %tile Q(veh)	0.4	-	2	-	-

Intersection	
Int Delay, s/veh	2.6

Movement	NBT	NBR	SBL	SBT	NWL	NWR
Vol, veh/h	446	52	182	412	0	104
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	299	-	0	-
Veh in Median Storage, #	0	-	-	0	1	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	485	57	198	448	0	113

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	541	0	1356	513
Stage 1	-	-	-	-	513	-
Stage 2	-	-	-	-	843	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	988	-	158	546
Stage 1	-	-	-	-	585	-
Stage 2	-	-	-	-	409	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	988	-	126	546
Mov Cap-2 Maneuver	-	-	-	-	243	-
Stage 1	-	-	-	-	585	-
Stage 2	-	-	-	-	327	-

Approach	NB	SB	NW
HCM Control Delay, s	0	2.9	13.3
HCM LOS			B

Minor Lane/Major Mvmt	NBT	NBR	NWLn1	SBL	SBT
Capacity (veh/h)	-	-	546	988	-
HCM Lane V/C Ratio	-	-	0.207	0.2	-
HCM Control Delay (s)	-	-	13.3	9.6	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.8	0.7	-

Intersection	
Intersection Delay, s/veh	17.7
Intersection LOS	C

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	22	266	124	0	54	111	19	0	59	63	48
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	24	289	135	0	59	121	21	0	64	68	52
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	1	1	1
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	1	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	1	1
HCM Control Delay	22.9	13.2	13.1
HCM LOS	C	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	35%	5%	29%	11%
Vol Thru, %	37%	65%	60%	82%
Vol Right, %	28%	30%	10%	7%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	170	412	184	245
LT Vol	59	22	54	28
Through Vol	63	266	111	200
RT Vol	48	124	19	17
Lane Flow Rate	185	448	200	266
Geometry Grp	1	1	1	1
Degree of Util (X)	0.339	0.726	0.361	0.48
Departure Headway (Hd)	6.614	5.839	6.491	6.485
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	543	618	554	554
Service Time	4.669	3.879	4.541	4.533
HCM Lane V/C Ratio	0.341	0.725	0.361	0.48
HCM Control Delay	13.1	22.9	13.2	15.4
HCM Lane LOS	B	C	B	C
HCM 95th-tile Q	1.5	6.1	1.6	2.6

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	28	200	17
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10
Mvmt Flow	0	30	217	18
Number of Lanes	0	0	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	1
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	15.4
HCM LOS	C

Lane

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	157	1793	372	250	1098	24	37	74	22	57	436	37
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	171	1949	404	272	1193	26	40	80	24	62	474	40
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	318	1532	685	206	1307	585	49	111	94	347	423	360
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.19	0.47	0.47	0.13	0.40	0.40	0.03	0.06	0.06	0.21	0.24	0.24
Ln Grp Delay, s/veh	45.4	159.9	24.9	226.2	41.8	22.1	112.1	88.6	40.2	39.1	126.1	15.7
Ln Grp LOS	D	F	C	F	D	C	F	F	D	D	F	B
Approach Vol, veh/h		2524			1491			144			576	
Approach Delay, s/veh		130.6			75.1			87.1			109.0	
Approach LOS		F			E			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	5	6	8	7
Case No	3.0	2.0	2.0	3.0	2.0	3.0	3.0	2.0
Phs Duration (G+Y+Rc), s	11.7	29.3	19.0	60.0	7.6	33.4	51.8	27.2
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	23.0	10.0	15.0	56.0	4.0	29.0	55.0	16.0
Max Allow Headway (MAH), s	4.1	4.0	4.1	4.1	4.1	4.0	4.0	4.1
Max Q Clear (g_c+I1), s	7.5	5.7	17.0	58.0	4.9	31.4	43.2	13.2
Green Ext Time (g_e), s	0.2	0.9	0.0	0.0	0.0	0.0	4.6	2.5
Prob of Phs Call (p_c)	1.00	0.87	1.00	1.00	0.74	1.00	1.00	1.00
Prob of Max Out (p_x)	0.00	0.92	1.00	1.00	1.00	1.00	0.28	1.00

Left-Turn Movement Data								
Assigned Mvmt		1	3		5			7
Mvmt Sat Flow, veh/h		1645	1645		1645			1645

Through Movement Data								
Assigned Mvmt	2			4		6	8	
Mvmt Sat Flow, veh/h	1727			3282		1727	3282	

Right-Turn Movement Data								
Assigned Mvmt	12			14		16	18	
Mvmt Sat Flow, veh/h	1468			1468		1468	1468	

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	5	0	0	7
Lane Assignment		(Prot)	(Prot)		(Prot)			(Prot)
Lanes in Grp	0	1	1	0	1	0	0	1

Grp Vol (v), veh/h	0	62	272	0	40	0	0	171
Grp Sat Flow (s), veh/h/ln	0	1645	1645	0	1645	0	0	1645
Q Serve Time (g_s), s	0.0	3.7	15.0	0.0	2.9	0.0	0.0	11.2
Cycle Q Clear Time (g_c), s	0.0	3.7	15.0	0.0	2.9	0.0	0.0	11.2
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	347	206	0	49	0	0	318
V/C Ratio (X)	0.00	0.18	1.32	0.00	0.81	0.00	0.00	0.54
Avail Cap (c_a), veh/h	0	347	206	0	55	0	0	318
Upstream Filter (I)	0.00	1.00	0.95	0.00	1.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	38.8	52.5	0.0	57.9	0.0	0.0	43.6
Incr Delay (d2), s/veh	0.0	0.2	173.7	0.0	54.3	0.0	0.0	1.8
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	39.1	226.2	0.0	112.1	0.0	0.0	45.4
1st-Term Q (Q1), veh/ln	0.0	1.7	6.8	0.0	1.3	0.0	0.0	5.1
2nd-Term Q (Q2), veh/ln	0.0	0.0	9.9	0.0	0.7	0.0	0.0	0.2
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.7	16.7	0.0	2.1	0.0	0.0	5.3
%ile Storage Ratio (RQ%)	0.00	0.00	0.03	0.00	0.02	0.00	0.00	0.03
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	16.6	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	0	6	8	0
Lane Assignment	T			T		T	T	
Lanes in Grp	1	0	0	2	0	1	2	0
Grp Vol (v), veh/h	80	0	0	1949	0	474	1193	0
Grp Sat Flow (s), veh/h/ln	1727	0	0	1641	0	1727	1641	0
Q Serve Time (g_s), s	5.5	0.0	0.0	56.0	0.0	29.4	41.2	0.0
Cycle Q Clear Time (g_c), s	5.5	0.0	0.0	56.0	0.0	29.4	41.2	0.0
Lane Grp Cap (c), veh/h	111	0	0	1532	0	423	1307	0
V/C Ratio (X)	0.72	0.00	0.00	1.27	0.00	1.12	0.91	0.00
Avail Cap (c_a), veh/h	331	0	0	1532	0	423	1504	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	1.00	0.95	0.00
Uniform Delay (d1), s/veh	55.1	0.0	0.0	32.0	0.0	45.3	34.1	0.0
Incr Delay (d2), s/veh	33.5	0.0	0.0	127.9	0.0	80.8	7.7	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	88.6	0.0	0.0	159.9	0.0	126.1	41.8	0.0
1st-Term Q (Q1), veh/ln	2.6	0.0	0.0	25.3	0.0	14.0	18.6	0.0
2nd-Term Q (Q2), veh/ln	1.0	0.0	0.0	27.2	0.0	9.5	1.4	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	3.6	0.0	0.0	52.5	0.0	23.5	20.0	0.0
%ile Storage Ratio (RQ%)	0.04	0.00	0.00	0.27	0.00	0.04	0.04	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	104.4	0.0	12.7	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.0	0.3	0.0	0.0

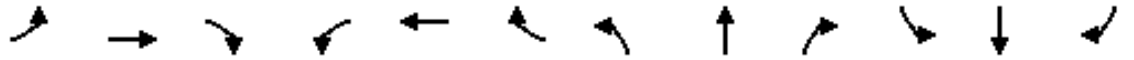
Right Lane Group Data								
Assigned Mvmt	12	0	0	14	0	16	18	0
Lane Assignment	R			R		R	R	
Lanes in Grp	1	0	0	1	0	1	1	0
Grp Vol (v), veh/h	24	0	0	404	0	40	26	0
Grp Sat Flow (s), veh/h/ln	1468	0	0	1468	0	1468	1468	0
Q Serve Time (g_s), s	1.5	0.0	0.0	24.3	0.0	1.7	1.3	0.0
Cycle Q Clear Time (g_c), s	1.5	0.0	0.0	24.3	0.0	1.7	1.3	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	94	0	0	685	0	360	585	0
V/C Ratio (X)	0.26	0.00	0.00	0.59	0.00	0.11	0.04	0.00
Avail Cap (c_a), veh/h	281	0	0	685	0	360	673	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	1.00	0.95	0.00
Uniform Delay (d1), s/veh	33.8	0.0	0.0	23.5	0.0	15.1	22.1	0.0
Incr Delay (d2), s/veh	6.4	0.0	0.0	1.3	0.0	0.6	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	40.2	0.0	0.0	24.9	0.0	15.7	22.1	0.0
1st-Term Q (Q1), veh/ln	0.6	0.0	0.0	9.8	0.0	0.7	0.5	0.0
2nd-Term Q (Q2), veh/ln	0.2	0.0	0.0	0.3	0.0	0.1	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.8	0.0	0.0	10.0	0.0	0.7	0.5	0.0
%ile Storage Ratio (RQ%)	0.01	0.00	0.00	0.05	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	109.2
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	157	1793	372	250	1098	24	37	74	22	57	436	37
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	171	1949	404	272	1193	26	40	80	24	62	474	40
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	318	1532	685	206	1307	585	49	111	94	347	423	360
Arrive On Green	0.19	0.47	0.47	0.13	0.40	0.40	0.03	0.06	0.06	0.21	0.24	0.24
Sat Flow, veh/h	1645	3282	1468	1645	3282	1468	1645	1727	1468	1645	1727	1468
Grp Volume(v), veh/h	171	1949	404	272	1193	26	40	80	24	62	474	40
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1641	1468	1645	1727	1468	1645	1727	1468
Q Serve(g_s), s	11.2	56.0	24.3	15.0	41.2	1.3	2.9	5.5	1.5	3.7	29.4	1.7
Cycle Q Clear(g_c), s	11.2	56.0	24.3	15.0	41.2	1.3	2.9	5.5	1.5	3.7	29.4	1.7
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	318	1532	685	206	1307	585	49	111	94	347	423	360
V/C Ratio(X)	0.54	1.27	0.59	1.32	0.91	0.04	0.81	0.72	0.26	0.18	1.12	0.11
Avail Cap(c_a), veh/h	318	1532	685	206	1504	673	55	331	281	347	423	360
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.95	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	43.6	32.0	23.5	52.5	34.1	22.1	57.9	55.1	33.8	38.8	45.3	15.1
Incr Delay (d2), s/veh	1.8	127.9	1.3	173.7	7.7	0.0	54.3	33.5	6.4	0.2	80.8	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.3	52.5	10.0	16.7	20.0	0.5	2.1	3.6	0.8	1.7	23.5	0.7
LnGrp Delay(d),s/veh	45.4	159.9	24.9	226.2	41.8	22.1	112.1	88.6	40.2	39.1	126.1	15.7
LnGrp LOS	D	F	C	F	D	C	F	F	D	D	F	B
Approach Vol, veh/h		2524			1491			144			576	
Approach Delay, s/veh		130.6			75.1			87.1			109.0	
Approach LOS		F			E			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	29.3	11.7	19.0	60.0	7.6	33.4	27.2	51.8
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	10.0	23.0	15.0	56.0	4.0	29.0	16.0	55.0
Max Q Clear Time (g_c+I1), s	5.7	7.5	17.0	58.0	4.9	31.4	13.2	43.2
Green Ext Time (p_c), s	0.9	0.2	0.0	0.0	0.0	0.0	2.5	4.6

Intersection Summary		
HCM 2010 Ctrl Delay		109.2
HCM 2010 LOS		F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	1481	130	765	754	13	55	5	262	3	11	0
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	1610	141	832	820	14	60	5	285	3	12	0
Adj No. of Lanes	1	2	1	1	2	0	2	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	60	1176	526	548	2394	41	97	297	252	5	250	212
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.00	0.36	0.36	0.33	0.73	0.73	0.03	0.17	0.17	0.00	0.14	0.00
Ln Grp Delay, s/veh	0.0	205.1	27.4	279.0	6.1	6.1	58.3	41.3	113.2	132.7	44.3	0.0
Ln Grp LOS		F	C	F	A	A	E	D	F	F	D	
Approach Vol, veh/h		1751			1666			350			15	
Approach Delay, s/veh		190.8			142.4			102.8			62.0	
Approach LOS		F			F			F			E	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6		8
Case No	2.0	3.0	2.0	5.0	2.0	3.0		4.0
Phs Duration (G+Y+Rc), s	4.4	24.6	44.0	47.0	7.7	21.3		91.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0		4.0
Max Green (Gmax), s	4.0	17.0	40.0	43.0	4.0	17.0		87.0
Max Allow Headway (MAH), s	4.1	4.3	4.1	4.0	4.1	4.3		4.0
Max Q Clear (g_c+I1), s	2.2	22.6	42.0	45.0	4.2	2.7		12.9
Green Ext Time (g_e), s	0.0	0.0	0.0	0.0	0.0	1.0		21.9
Prob of Phs Call (p_c)	0.10	1.00	1.00	1.00	0.86	1.00		1.00
Prob of Max Out (p_x)	1.00	1.00	1.00	1.00	1.00	0.01		0.08

Left-Turn Movement Data								
Assigned Mvmt	1		3	7	5			
Mvmt Sat Flow, veh/h	1645		1645	608	3191			

Through Movement Data								
Assigned Mvmt		2		4		6		8
Mvmt Sat Flow, veh/h		1727		3282		1727		3302

Right-Turn Movement Data								
Assigned Mvmt		12		14		16		18
Mvmt Sat Flow, veh/h		1468		1468		1468		56

Left Lane Group Data								
Assigned Mvmt	1	0	3	7	5	0	0	0
Lane Assignment	(Prot)		(Prot)		(Prot)			
Lanes in Grp	1	0	1	1	2	0	0	0

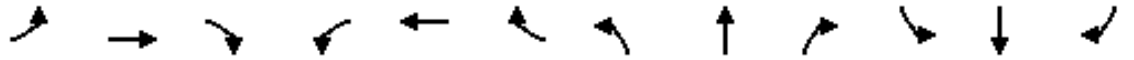
Grp Vol (v), veh/h	3	0	832	0	60	0	0	0
Grp Sat Flow (s), veh/h/ln	1645	0	1645	608	1596	0	0	0
Q Serve Time (g_s), s	0.2	0.0	40.0	0.0	2.2	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.2	0.0	40.0	0.0	2.2	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	608	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	5	0	548	60	97	0	0	0
V/C Ratio (X)	0.57	0.00	1.52	0.00	0.62	0.00	0.00	0.00
Avail Cap (c_a), veh/h	55	0	548	60	106	0	0	0
Upstream Filter (I)	1.00	0.00	0.67	0.00	0.09	0.00	0.00	0.00
Uniform Delay (d1), s/veh	59.7	0.0	40.0	0.0	57.5	0.0	0.0	0.0
Incr Delay (d2), s/veh	73.0	0.0	239.0	0.0	0.8	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	132.7	0.0	279.0	0.0	58.3	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.1	0.0	18.1	0.0	1.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.1	0.0	36.4	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.2	0.0	54.5	0.0	1.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.06	0.00	4.75	0.00	0.17	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	70.9	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	0	8
Lane Assignment		T		T		T		T
Lanes in Grp	0	1	0	2	0	1	0	1
Grp Vol (v), veh/h	0	5	0	1610	0	12	0	407
Grp Sat Flow (s), veh/h/ln	0	1727	0	1641	0	1727	0	1641
Q Serve Time (g_s), s	0.0	0.3	0.0	43.0	0.0	0.7	0.0	10.9
Cycle Q Clear Time (g_c), s	0.0	0.3	0.0	43.0	0.0	0.7	0.0	10.9
Lane Grp Cap (c), veh/h	0	297	0	1176	0	250	0	1190
V/C Ratio (X)	0.00	0.02	0.00	1.37	0.00	0.05	0.00	0.34
Avail Cap (c_a), veh/h	0	297	0	1176	0	250	0	1190
Upstream Filter (I)	0.00	0.09	0.00	0.09	0.00	1.00	0.00	0.67
Uniform Delay (d1), s/veh	0.0	41.3	0.0	38.5	0.0	44.2	0.0	6.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	166.6	0.0	0.1	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	41.3	0.0	205.1	0.0	44.3	0.0	6.1
1st-Term Q (Q1), veh/ln	0.0	0.1	0.0	19.4	0.0	0.3	0.0	4.9
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	27.2	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.1	0.0	46.6	0.0	0.3	0.0	4.9
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.10	0.00	0.01	0.00	0.03
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	108.5	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	0	18
Lane Assignment		R		R		R		T+R
Lanes in Grp	0	1	0	1	0	1	0	1
Grp Vol (v), veh/h	0	285	0	141	0	0	0	427
Grp Sat Flow (s), veh/h/ln	0	1468	0	1468	0	1468	0	1717
Q Serve Time (g_s), s	0.0	20.6	0.0	8.2	0.0	0.0	0.0	10.9
Cycle Q Clear Time (g_c), s	0.0	20.6	0.0	8.2	0.0	0.0	0.0	10.9
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	0.03
Lane Grp Cap (c), veh/h	0	252	0	526	0	212	0	1245
V/C Ratio (X)	0.00	1.13	0.00	0.27	0.00	0.00	0.00	0.34
Avail Cap (c_a), veh/h	0	252	0	526	0	212	0	1245
Upstream Filter (I)	0.00	0.09	0.00	0.09	0.00	0.00	0.00	0.67
Uniform Delay (d1), s/veh	0.0	49.7	0.0	27.3	0.0	0.0	0.0	6.0
Incr Delay (d2), s/veh	0.0	63.5	0.0	0.0	0.0	0.0	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	113.2	0.0	27.4	0.0	0.0	0.0	6.1
1st-Term Q (Q1), veh/ln	0.0	8.4	0.0	3.3	0.0	0.0	0.0	5.1
2nd-Term Q (Q2), veh/ln	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	12.8	0.0	3.3	0.0	0.0	0.0	5.1
%ile Storage Ratio (RQ%)	0.00	3.30	0.00	0.36	0.00	0.00	0.00	0.03
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	8.2	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0

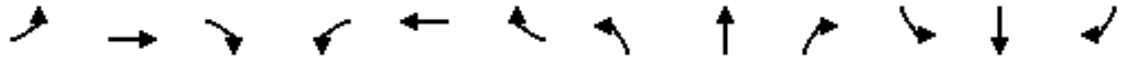
Intersection Summary	
HCM 2010 Ctrl Delay	160.8
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	1481	130	765	754	13	55	5	262	3	11	0
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	1610	141	832	820	14	60	5	285	3	12	0
Adj No. of Lanes	1	2	1	1	2	0	2	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	60	1176	526	548	2394	41	97	297	252	5	250	212
Arrive On Green	0.00	0.36	0.36	0.33	0.73	0.73	0.03	0.17	0.17	0.00	0.14	0.00
Sat Flow, veh/h	608	3282	1468	1645	3302	56	3191	1727	1468	1645	1727	1468
Grp Volume(v), veh/h	0	1610	141	832	407	427	60	5	285	3	12	0
Grp Sat Flow(s),veh/h/ln	608	1641	1468	1645	1641	1717	1596	1727	1468	1645	1727	1468
Q Serve(g_s), s	0.0	43.0	8.2	40.0	10.9	10.9	2.2	0.3	20.6	0.2	0.7	0.0
Cycle Q Clear(g_c), s	0.0	43.0	8.2	40.0	10.9	10.9	2.2	0.3	20.6	0.2	0.7	0.0
Prop In Lane	1.00		1.00	1.00		0.03	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	60	1176	526	548	1190	1245	97	297	252	5	250	212
V/C Ratio(X)	0.00	1.37	0.27	1.52	0.34	0.34	0.62	0.02	1.13	0.57	0.05	0.00
Avail Cap(c_a), veh/h	60	1176	526	548	1190	1245	106	297	252	55	250	212
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.09	0.09	0.67	0.67	0.67	0.09	0.09	0.09	1.00	1.00	0.00
Uniform Delay (d), s/veh	0.0	38.5	27.3	40.0	6.0	6.0	57.5	41.3	49.7	59.7	44.2	0.0
Incr Delay (d2), s/veh	0.0	166.6	0.0	239.0	0.1	0.1	0.8	0.0	63.5	73.0	0.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	46.6	3.3	54.5	4.9	5.1	1.0	0.1	12.8	0.2	0.3	0.0
LnGrp Delay(d),s/veh	0.0	205.1	27.4	279.0	6.1	6.1	58.3	41.3	113.2	132.7	44.3	0.0
LnGrp LOS		F	C	F	A	A	E	D	F	F	D	
Approach Vol, veh/h		1751			1666			350			15	
Approach Delay, s/veh		190.8			142.4			102.8			62.0	
Approach LOS		F			F			F			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6		8
Phs Duration (G+Y+Rc), s	4.4	24.6	44.0	47.0	7.7	21.3		91.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	0.4	17.0	40.0	43.0	4.0	17.0		87.0
Max Q Clear Time (g_c+I1), s	2.2	22.6	42.0	45.0	4.2	2.7		12.9
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	1.0		21.9

Intersection Summary	
HCM 2010 Ctrl Delay	160.8
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	19	1604	130	549	1265	14	103	2	324	100	71	21
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	21	1743	141	597	1375	15	112	2	352	109	77	23
Adj No. of Lanes	1	2	0	1	2	1	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	298	1283	103	411	1593	712	82	1	219	82	192	57
HCM Platoon Ratio	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.18	0.42	0.42	0.08	0.16	0.16	0.05	0.15	0.15	0.05	0.15	0.15
Ln Grp Delay, s/veh	40.7	191.0	204.6	269.8	49.4	26.4	226.9	0.0	325.7	265.8	0.0	50.9
Ln Grp LOS	D	F	F	F	D	C	F		F	F		D
Approach Vol, veh/h		1905			1987			466			209	
Approach Delay, s/veh		196.2			115.5			301.9			163.0	
Approach LOS		F			F			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	5	6	8	7
Case No	4.0	2.0	2.0	4.0	2.0	4.0	3.0	2.0
Phs Duration (G+Y+Rc), s	22.0	10.0	34.0	54.0	10.0	22.0	62.2	25.8
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	18.0	6.0	30.0	50.0	6.0	18.0	74.0	6.0
Max Allow Headway (MAH), s	4.3	4.1	4.1	4.0	4.1	4.1	4.0	4.0
Max Q Clear (g_c+I1), s	20.0	8.0	32.0	52.0	8.0	8.5	51.0	3.3
Green Ext Time (g_e), s	0.0	0.0	0.0	0.0	0.0	0.4	7.2	2.1
Prob of Phs Call (p_c)	1.00	0.97	1.00	1.00	0.98	1.00	1.00	0.50
Prob of Max Out (p_x)	1.00	1.00	1.00	1.00	1.00	0.02	0.08	1.00

Left-Turn Movement Data								
Assigned Mvmt		1	3		5			7
Mvmt Sat Flow, veh/h		1645	1645		1645			1645

Through Movement Data								
Assigned Mvmt	2			4		6	8	
Mvmt Sat Flow, veh/h	8			3079		1278	3282	

Right-Turn Movement Data								
Assigned Mvmt	12			14		16	18	
Mvmt Sat Flow, veh/h	1461			246		382	1468	

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	5	0	0	7
Lane Assignment		(Prot)	(Prot)		(Prot)			(Prot)
Lanes in Grp	0	1	1	0	1	0	0	1

Grp Vol (v), veh/h	0	109	597	0	112	0	0	21
Grp Sat Flow (s), veh/h/ln	0	1645	1645	0	1645	0	0	1645
Q Serve Time (g_s), s	0.0	6.0	30.0	0.0	6.0	0.0	0.0	1.3
Cycle Q Clear Time (g_c), s	0.0	6.0	30.0	0.0	6.0	0.0	0.0	1.3
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	82	411	0	82	0	0	298
V/C Ratio (X)	0.00	1.33	1.45	0.00	1.36	0.00	0.00	0.07
Avail Cap (c_a), veh/h	0	82	411	0	82	0	0	298
Upstream Filter (I)	0.00	1.00	0.86	0.00	0.09	0.00	0.00	0.09
Uniform Delay (d1), s/veh	0.0	57.0	55.0	0.0	57.0	0.0	0.0	40.7
Incr Delay (d2), s/veh	0.0	208.8	214.7	0.0	169.9	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	265.8	269.8	0.0	226.9	0.0	0.0	40.7
1st-Term Q (Q1), veh/ln	0.0	2.7	13.7	0.0	2.7	0.0	0.0	0.6
2nd-Term Q (Q2), veh/ln	0.0	4.8	24.5	0.0	3.9	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	7.5	38.2	0.0	6.6	0.0	0.0	0.6
%ile Storage Ratio (RQ%)	0.00	1.16	5.32	0.00	1.52	0.00	0.00	0.04
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	6.7	46.4	0.0	7.4	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.3	0.4	0.0	0.3	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	0	6	8	0
Lane Assignment				T			T	
Lanes in Grp	0	0	0	1	0	0	2	0
Grp Vol (v), veh/h	0	0	0	919	0	0	1375	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1641	0	0	1641	0
Q Serve Time (g_s), s	0.0	0.0	0.0	50.0	0.0	0.0	49.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	50.0	0.0	0.0	49.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	684	0	0	1593	0
V/C Ratio (X)	0.00	0.00	0.00	1.34	0.00	0.00	0.86	0.00
Avail Cap (c_a), veh/h	0	0	0	684	0	0	2024	0
Upstream Filter (I)	0.00	0.00	0.00	0.09	0.00	0.00	0.86	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	35.0	0.0	0.0	46.5	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	156.0	0.0	0.0	2.9	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	191.0	0.0	0.0	49.4	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	22.6	0.0	0.0	22.3	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	29.6	0.0	0.0	0.6	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	52.2	0.0	0.0	22.9	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.27	0.00	0.00	0.41	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	58.9	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	0	14	0	16	18	0
Lane Assignment	T+R			T+R		T+R	R	
Lanes in Grp	1	0	0	1	0	1	1	0
Grp Vol (v), veh/h	354	0	0	965	0	100	15	0
Grp Sat Flow (s), veh/h/ln	1469	0	0	1684	0	1660	1468	0
Q Serve Time (g_s), s	18.0	0.0	0.0	50.0	0.0	6.5	1.0	0.0
Cycle Q Clear Time (g_c), s	18.0	0.0	0.0	50.0	0.0	6.5	1.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.99	0.00	0.00	0.15	0.00	0.23	1.00	0.00
Lane Grp Cap (c), veh/h	220	0	0	702	0	249	712	0
V/C Ratio (X)	1.61	0.00	0.00	1.37	0.00	0.40	0.02	0.00
Avail Cap (c_a), veh/h	220	0	0	702	0	249	905	0
Upstream Filter (I)	0.09	0.00	0.00	0.09	0.00	1.00	0.86	0.00
Uniform Delay (d1), s/veh	51.0	0.0	0.0	35.0	0.0	46.1	26.4	0.0
Incr Delay (d2), s/veh	274.7	0.0	0.0	169.6	0.0	4.8	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	325.7	0.0	0.0	204.6	0.0	50.9	26.4	0.0
1st-Term Q (Q1), veh/ln	7.3	0.0	0.0	23.2	0.0	3.0	0.4	0.0
2nd-Term Q (Q2), veh/ln	16.8	0.0	0.0	33.0	0.0	0.3	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	24.1	0.0	0.0	56.2	0.0	3.3	0.4	0.0
%ile Storage Ratio (RQ%)	0.03	0.00	0.00	0.30	0.00	0.16	0.06	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	33.4	0.0	0.0	65.8	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.4	0.0	0.0	0.3	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	170.3
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	19	1604	130	549	1265	14	103	2	324	100	71	21
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	21	1743	141	597	1375	15	112	2	352	109	77	23
Adj No. of Lanes	1	2	0	1	2	1	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	298	1283	103	411	1593	712	82	1	219	82	192	57
Arrive On Green	0.18	0.42	0.42	0.08	0.16	0.16	0.05	0.15	0.15	0.05	0.15	0.15
Sat Flow, veh/h	1645	3079	246	1645	3282	1468	1645	8	1461	1645	1278	382
Grp Volume(v), veh/h	21	919	965	597	1375	15	112	0	354	109	0	100
Grp Sat Flow(s),veh/h/ln	1645	1641	1684	1645	1641	1468	1645	0	1469	1645	0	1660
Q Serve(g_s), s	1.3	50.0	50.0	30.0	49.0	1.0	6.0	0.0	18.0	6.0	0.0	6.5
Cycle Q Clear(g_c), s	1.3	50.0	50.0	30.0	49.0	1.0	6.0	0.0	18.0	6.0	0.0	6.5
Prop In Lane	1.00		0.15	1.00		1.00	1.00		0.99	1.00		0.23
Lane Grp Cap(c), veh/h	298	684	702	411	1593	712	82	0	220	82	0	249
V/C Ratio(X)	0.07	1.34	1.37	1.45	0.86	0.02	1.36	0.00	1.61	1.33	0.00	0.40
Avail Cap(c_a), veh/h	298	684	702	411	2024	905	82	0	220	82	0	249
HCM Platoon Ratio	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.09	0.09	0.09	0.86	0.86	0.86	0.09	0.00	0.09	1.00	0.00	1.00
Uniform Delay (d), s/veh	40.7	35.0	35.0	55.0	46.5	26.4	57.0	0.0	51.0	57.0	0.0	46.1
Incr Delay (d2), s/veh	0.0	156.0	169.6	214.7	2.9	0.0	169.9	0.0	274.7	208.8	0.0	4.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.6	52.2	56.2	38.2	22.9	0.4	6.6	0.0	24.1	7.5	0.0	3.3
LnGrp Delay(d),s/veh	40.7	191.0	204.6	269.8	49.4	26.4	226.9	0.0	325.7	265.8	0.0	50.9
LnGrp LOS	D	F	F	F	D	C	F		F	F		D
Approach Vol, veh/h		1905			1987			466			209	
Approach Delay, s/veh		196.2			115.5			301.9			163.0	
Approach LOS		F			F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.0	22.0	34.0	54.0	10.0	22.0	25.8	62.2
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	6.0	18.0	30.0	50.0	6.0	18.0	6.0	74.0
Max Q Clear Time (g_c+I1), s	8.0	20.0	32.0	52.0	8.0	8.5	3.3	51.0
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	0.4	2.1	7.2

Intersection Summary	
HCM 2010 Ctrl Delay	170.3
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL2	NBL	NBR	SEL	SER	SER2
Lane Configurations												
Volume (veh/h)	2	1689	128	176	1188	1	0	26	103	0	0	0
Number	7	4	14	3	8	18	5	5	12	1	16	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	2	1836	139	191	1291	1	0	0	112	0	0	0
Adj No. of Lanes	1	2	1	1	2	0	1	1	0	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes	Yes		Yes		
Cap, veh/h	4	1860	832	206	2320	2	343	343	132	109	1	1
HCM Platoon Ratio	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.00	0.57	0.57	0.25	1.00	1.00	0.00	0.00	0.11	0.00	0.00	0.00
Ln Grp Delay, s/veh	71.9	29.5	1.7	73.6	0.3	0.3	0.0	0.0	91.8	0.0	0.0	0.0
Ln Grp LOS	E	C	A	E	A	A			F			
Approach Vol, veh/h		1977			1483		140	140		0		
Approach Delay, s/veh		27.6			9.8		91.8	91.8		0.0		
Approach LOS		C			A		F	F				

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	6	5	7	8
Case No	4.0	2.0	2.0	3.0	3.0	2.0	2.0	4.0
Phs Duration (G+Y+Rc), s	17.1	11.9	19.0	72.0	0.0	29.0	4.3	86.7
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	17.0	4.0	15.0	68.0	17.0	4.0	4.0	79.0
Max Allow Headway (MAH), s	4.3	0.0	4.1	4.0	0.0	0.0	4.1	4.0
Max Q Clear (g_c+I1), s	12.9	0.0	15.6	68.0	0.0	0.0	2.1	2.0
Green Ext Time (g_e), s	0.1	0.0	0.0	0.0	0.0	0.0	0.0	36.6
Prob of Phs Call (p_c)	1.00	0.00	1.00	1.00	0.00	0.00	0.06	1.00
Prob of Max Out (p_x)	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.30

Left-Turn Movement Data								
Assigned Mvmt		1	3			5	7	
Mvmt Sat Flow, veh/h		1645	1645			1645	1645	

Through Movement Data								
Assigned Mvmt	2			4	6			8
Mvmt Sat Flow, veh/h	303			3282	1727			3365

Right-Turn Movement Data								
Assigned Mvmt	12			14	16			18
Mvmt Sat Flow, veh/h	1211			1468	1468			3

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	0	5	7	0
Lane Assignment		(Prot)	(Prot)			(Prot)	(Prot)	
Lanes in Grp	0	1	1	0	0	1	1	0

Grp Vol (v), veh/h	0	0	191	0	0	0	2	0
Grp Sat Flow (s), veh/h/ln	0	1645	1645	0	0	1645	1645	0
Q Serve Time (g_s), s	0.0	0.0	13.6	0.0	0.0	0.0	0.1	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	13.6	0.0	0.0	0.0	0.1	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	109	206	0	0	343	4	0
V/C Ratio (X)	0.00	0.00	0.93	0.00	0.00	0.00	0.57	0.00
Avail Cap (c_a), veh/h	0	109	206	0	0	343	55	0
Upstream Filter (I)	0.00	0.00	0.55	0.00	0.00	0.00	0.09	0.00
Uniform Delay (d1), s/veh	0.0	0.0	44.5	0.0	0.0	0.0	59.8	0.0
Incr Delay (d2), s/veh	0.0	0.0	29.1	0.0	0.0	0.0	12.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	73.6	0.0	0.0	0.0	71.9	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	6.2	0.0	0.0	0.0	0.1	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	7.8	0.0	0.0	0.0	0.1	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	6	0	0	8
Lane Assignment				T	T			T
Lanes in Grp	0	0	0	2	1	0	0	1
Grp Vol (v), veh/h	0	0	0	1836	0	0	0	630
Grp Sat Flow (s), veh/h/ln	0	0	0	1641	1727	0	0	1641
Q Serve Time (g_s), s	0.0	0.0	0.0	66.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	66.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	1860	1	0	0	1131
V/C Ratio (X)	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.56
Avail Cap (c_a), veh/h	0	0	0	1860	245	0	0	1131
Upstream Filter (I)	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.55
Uniform Delay (d1), s/veh	0.0	0.0	0.0	25.6	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	3.9	0.0	0.0	0.0	0.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	29.5	0.0	0.0	0.0	0.3
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	29.6	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.1

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	30.6	0.0	0.0	0.0	0.1
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	0	14	16	0	0	18
Lane Assignment	T+R			R	R			T+R
Lanes in Grp	1	0	0	1	1	0	0	1
Grp Vol (v), veh/h	140	0	0	139	0	0	0	662
Grp Sat Flow (s), veh/h/ln	1514	0	0	1468	1468	0	0	1727
Q Serve Time (g_s), s	10.9	0.0	0.0	2.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	10.9	0.0	0.0	2.0	0.0	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.80	0.00	0.00	1.00	1.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	165	0	0	832	1	0	0	1191
V/C Ratio (X)	0.85	0.00	0.00	0.17	0.00	0.00	0.00	0.56
Avail Cap (c_a), veh/h	214	0	0	832	208	0	0	1191
Upstream Filter (I)	1.00	0.00	0.00	0.09	0.00	0.00	0.00	0.55
Uniform Delay (d1), s/veh	52.5	0.0	0.0	1.7	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	39.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	91.8	0.0	0.0	1.7	0.0	0.0	0.0	0.3
1st-Term Q (Q1), veh/ln	4.5	0.0	0.0	0.8	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	6.3	0.0	0.0	0.8	0.0	0.0	0.0	0.1
%ile Storage Ratio (RQ%)	0.06	0.00	0.00	0.01	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	22.7
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL2	NBL	NBR	SEL	SER	SER2
Lane Configurations												
Volume (veh/h)	2	1689	128	176	1188	1	0	26	103	0	0	0
Number	7	4	14	3	8	18	5	5	12	1	16	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	2	1836	139	191	1291	1	0	0	112	0	0	0
Adj No. of Lanes	1	2	1	1	2	0	1	1	0	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	4	1860	832	206	2320	2	343	343	132	109	1	1
Arrive On Green	0.00	0.57	0.57	0.25	1.00	1.00	0.00	0.00	0.11	0.00	0.00	0.00
Sat Flow, veh/h	1645	3282	1468	1645	3365	3	1645	1645	1211	1645	1468	1468
Grp Volume(v), veh/h	2	1836	139	191	630	662	0	0	140	0	0	0
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1641	1727	1645	1645	1514	1645	1468	1468
Q Serve(g_s), s	0.1	66.0	2.0	13.6	0.0	0.0	0.0	0.0	10.9	0.0	0.0	0.0
Cycle Q Clear(g_c), s	0.1	66.0	2.0	13.6	0.0	0.0	0.0	0.0	10.9	0.0	0.0	0.0
Prop In Lane	1.00		1.00	1.00		0.00	1.00	1.00	0.80	1.00	1.00	1.00
Lane Grp Cap(c), veh/h	4	1860	832	206	1131	1191	343	343	165	109	1	1
V/C Ratio(X)	0.57	0.99	0.17	0.93	0.56	0.56	0.00	0.00	0.85	0.00	0.00	0.00
Avail Cap(c_a), veh/h	55	1860	832	206	1131	1191	343	343	214	109	208	208
HCM Platoon Ratio	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.09	0.09	0.09	0.55	0.55	0.55	0.00	0.00	1.00	0.00	0.00	0.00
Uniform Delay (d), s/veh	59.8	25.6	1.7	44.5	0.0	0.0	0.0	0.0	52.5	0.0	0.0	0.0
Incr Delay (d2), s/veh	12.1	3.9	0.0	29.1	0.3	0.3	0.0	0.0	39.3	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	30.6	0.8	7.8	0.1	0.1	0.0	0.0	6.3	0.0	0.0	0.0
LnGrp Delay(d),s/veh	71.9	29.5	1.7	73.6	0.3	0.3	0.0	0.0	91.8	0.0	0.0	0.0
LnGrp LOS	E	C	A	E	A	A			F			
Approach Vol, veh/h		1977			1483		140	140		0		
Approach Delay, s/veh		27.6			9.8		91.8	91.8		0.0		
Approach LOS		C			A		F	F				

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.9	17.1	19.0	72.0	29.0	0.0	4.3	86.7
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	4.0	17.0	15.0	68.0	4.0	17.0	4.0	79.0
Max Q Clear Time (g_c+I1), s	0.0	12.9	15.6	68.0	0.0	0.0	2.1	2.0
Green Ext Time (p_c), s	0.0	0.1	0.0	0.0	0.0	0.0	0.0	36.6

Intersection Summary	
HCM 2010 Ctrl Delay	22.7
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL2	SBL	SBR	NWL	NWR	NWR2
Lane Configurations												
Volume (veh/h)	176	1115	409	0	1669	53	0	230	220	0	0	0
Number	7	4	14	3	8	18	1	1	16	5	12	12
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	0	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	191	1212	445	0	1814	58	0	0	239	0	0	0
Adj No. of Lanes	1	2	1	0	3	1	2	2	1	2	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	0	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			No			Yes	Yes		Yes		
Cap, veh/h	220	2108	943	0	2240	697	120	120	427	120	427	427
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.13	0.64	0.64	0.00	0.48	0.48	0.00	0.00	0.29	0.00	0.00	0.00
Ln Grp Delay, s/veh	53.9	12.2	11.1	0.0	27.3	17.2	0.0	0.0	37.7	0.0	0.0	0.0
Ln Grp LOS	D	B	B		C	B			D			
Approach Vol, veh/h		1848			1872		239	239		0		
Approach Delay, s/veh		16.3			27.0		37.7	37.7		0.0		
Approach LOS		B			C		D	D				

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6	7	8
Case No		5.0		3.0		5.0	2.0	7.0
Phs Duration (G+Y+Rc), s		38.9		81.1		38.9	20.1	61.0
Change Period (Y+Rc), s		4.0		4.0		4.0	4.0	4.0
Max Green (Gmax), s		21.0		91.0		21.0	27.0	60.0
Max Allow Headway (MAH), s		0.0		4.1		4.4	4.1	4.1
Max Q Clear (g_c+I1), s		0.0		27.1		18.5	15.7	41.4
Green Ext Time (g_e), s		0.0		38.4		0.2	0.5	15.6
Prob of Phs Call (p_c)		1.00		1.00		1.00	1.00	1.00
Prob of Max Out (p_x)		0.00		0.43		1.00	0.01	0.81

Left-Turn Movement Data								
Assigned Mvmt		5				1	7	3
Mvmt Sat Flow, veh/h		1625				3191	1645	0

Through Movement Data								
Assigned Mvmt		2		4		6		8
Mvmt Sat Flow, veh/h		3040		3282		0		4871

Right-Turn Movement Data								
Assigned Mvmt		12		14		16		18
Mvmt Sat Flow, veh/h		1468		1468		1468		1468

Left Lane Group Data								
Assigned Mvmt	0	5	0	0	0	1	7	3
Lane Assignment							(Prot)	
Lanes in Grp	0	2	0	0	0	2	1	0

Grp Vol (v), veh/h	0	0	0	0	0	0	191	0
Grp Sat Flow (s), veh/h/ln	0	813	0	0	0	1596	1645	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	13.7	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	13.7	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	813	0	0	0	1596	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	0.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	120	0	0	0	120	220	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.87	0.00
Avail Cap (c_a), veh/h	0	120	0	0	0	120	370	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	50.9	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	53.9	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	6.2	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	6.4	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.71	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	0	8
Lane Assignment		T		T				T
Lanes in Grp	0	2	0	2	0	0	0	3
Grp Vol (v), veh/h	0	0	0	1212	0	0	0	1814
Grp Sat Flow (s), veh/h/ln	0	1520	0	1641	0	0	0	1572
Q Serve Time (g_s), s	0.0	0.0	0.0	25.1	0.0	0.0	0.0	39.4
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	25.1	0.0	0.0	0.0	39.4
Lane Grp Cap (c), veh/h	0	885	0	2108	0	0	0	2240
V/C Ratio (X)	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.81
Avail Cap (c_a), veh/h	0	885	0	2489	0	0	0	2358
Upstream Filter (I)	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.19
Uniform Delay (d1), s/veh	0.0	0.0	0.0	12.2	0.0	0.0	0.0	26.9
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	12.2	0.0	0.0	0.0	27.3
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	11.3	0.0	0.0	0.0	17.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	11.3	0.0	0.0	0.0	17.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.23
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	0	18
Lane Assignment		R		R		R		R
Lanes in Grp	0	1	0	1	0	1	0	1
Grp Vol (v), veh/h	0	0	0	445	0	239	0	58
Grp Sat Flow (s), veh/h/ln	0	1468	0	1468	0	1468	0	1468
Q Serve Time (g_s), s	0.0	0.0	0.0	18.7	0.0	16.5	0.0	2.6
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	18.7	0.0	16.5	0.0	2.6
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	427	0	943	0	427	0	697
V/C Ratio (X)	0.00	0.00	0.00	0.47	0.00	0.56	0.00	0.08
Avail Cap (c_a), veh/h	0	427	0	1113	0	427	0	734
Upstream Filter (I)	0.00	0.00	0.00	0.25	0.00	1.00	0.00	0.19
Uniform Delay (d1), s/veh	0.0	0.0	0.0	11.0	0.0	36.0	0.0	17.2
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.1	0.0	1.6	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	11.1	0.0	37.7	0.0	17.2
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	7.5	0.0	13.5	0.0	1.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	7.6	0.0	13.7	0.0	1.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.16	0.00	0.17	0.00	0.13
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	22.6
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL2	SBL	SBR	NWL	NWR	NWR2
Lane Configurations												
Volume (veh/h)	176	1115	409	0	1669	53	0	230	220	0	0	0
Number	7	4	14	3	8	18	1	1	16	5	12	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	0	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	191	1212	445	0	1814	58	0	0	239	0	0	0
Adj No. of Lanes	1	2	1	0	3	1	2	2	1	2	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	0	10	10	10	10	10	10	10	10
Cap, veh/h	220	2108	943	0	2240	697	120	120	427	120	427	427
Arrive On Green	0.13	0.64	0.64	0.00	0.48	0.48	0.00	0.00	0.29	0.00	0.00	0.00
Sat Flow, veh/h	1645	3282	1468	0	4871	1468	3191	3191	1468	1625	1468	1468
Grp Volume(v), veh/h	191	1212	445	0	1814	58	0	0	239	0	0	0
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	0	1572	1468	1596	1596	1468	813	1468	1468
Q Serve(g_s), s	13.7	25.1	18.7	0.0	39.4	2.6	0.0	0.0	16.5	0.0	0.0	0.0
Cycle Q Clear(g_c), s	13.7	25.1	18.7	0.0	39.4	2.6	0.0	0.0	16.5	0.0	0.0	0.0
Prop In Lane	1.00		1.00	0.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lane Grp Cap(c), veh/h	220	2108	943	0	2240	697	120	120	427	120	427	427
V/C Ratio(X)	0.87	0.57	0.47	0.00	0.81	0.08	0.00	0.00	0.56	0.00	0.00	0.00
Avail Cap(c_a), veh/h	370	2489	1113	0	2358	734	120	120	427	120	427	427
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.25	0.25	0.25	0.00	0.19	0.19	0.00	0.00	1.00	0.00	0.00	0.00
Uniform Delay (d), s/veh	50.9	12.2	11.0	0.0	26.9	17.2	0.0	0.0	36.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	3.0	0.1	0.1	0.0	0.4	0.0	0.0	0.0	1.6	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.4	11.3	7.6	0.0	17.0	1.0	0.0	0.0	13.7	0.0	0.0	0.0
LnGrp Delay(d),s/veh	53.9	12.2	11.1	0.0	27.3	17.2	0.0	0.0	37.7	0.0	0.0	0.0
LnGrp LOS	D	B	B		C	B			D			
Approach Vol, veh/h		1848			1872		239	239		0		
Approach Delay, s/veh		16.3			27.0		37.7	37.7		0.0		
Approach LOS		B			C		D	D				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6	7	8
Phs Duration (G+Y+Rc), s		38.9		81.1		38.9	20.1	61.0
Change Period (Y+Rc), s		4.0		4.0		4.0	4.0	4.0
Max Green Setting (Gmax), s		21.0		91.0		21.0	27.0	60.0
Max Q Clear Time (g_c+I1), s		0.0		27.1		18.5	15.7	41.4
Green Ext Time (p_c), s		0.0		38.4		0.2	0.5	15.6

Intersection Summary	
HCM 2010 Ctrl Delay	22.6
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	686	1049	96	221	872	208	129	648	152	127	371	124
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	746	1140	104	240	948	226	140	704	165	138	403	135
Adj No. of Lanes	2	2	1	2	2	1	2	1	1	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	691	1285	575	266	848	379	192	619	526	106	1088	487
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.43	0.78	0.78	0.08	0.26	0.26	0.06	0.36	0.36	0.03	0.33	0.33
Ln Grp Delay, s/veh	88.3	18.8	8.7	85.6	113.2	31.7	61.6	118.9	28.2	244.7	30.8	10.1
Ln Grp LOS	F	B	A	F	F	C	E	F	C	F	C	B
Approach Vol, veh/h		1990			1414			1009			676	
Approach Delay, s/veh		44.3			95.5			96.1			70.3	
Approach LOS		D			F			F			E	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	8	7
Case No	2.0	3.0	2.0	3.0	2.0	3.0	3.0	2.0
Phs Duration (G+Y+Rc), s	8.0	47.0	14.0	51.0	11.2	43.8	35.0	30.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	4.0	43.0	10.0	47.0	10.0	37.0	31.0	26.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	6.0	45.0	10.9	31.6	7.2	13.2	33.0	28.0
Green Ext Time (g_e), s	0.0	0.0	0.0	8.4	0.1	6.4	0.0	0.0
Prob of Phs Call (p_c)	0.99	1.00	1.00	1.00	0.99	1.00	1.00	1.00
Prob of Max Out (p_x)	1.00	1.00	1.00	0.00	1.00	0.09	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt	1		3		5			7
Mvmt Sat Flow, veh/h	3191		3191		3191			3191

Through Movement Data								
Assigned Mvmt		2		4		6	8	
Mvmt Sat Flow, veh/h		1727		3282		3282	3282	

Right-Turn Movement Data								
Assigned Mvmt		12		14		16	18	
Mvmt Sat Flow, veh/h		1468		1468		1468	1468	

Left Lane Group Data								
Assigned Mvmt	1	0	3	0	5	0	0	7
Lane Assignment	(Prot)		(Prot)		(Prot)			(Prot)
Lanes in Grp	2	0	2	0	2	0	0	2

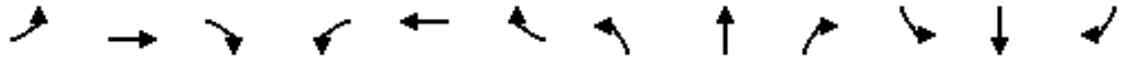
Grp Vol (v), veh/h	138	0	240	0	140	0	0	746
Grp Sat Flow (s), veh/h/ln	1596	0	1596	0	1596	0	0	1596
Q Serve Time (g_s), s	4.0	0.0	8.9	0.0	5.2	0.0	0.0	26.0
Cycle Q Clear Time (g_c), s	4.0	0.0	8.9	0.0	5.2	0.0	0.0	26.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	106	0	266	0	192	0	0	691
V/C Ratio (X)	1.30	0.00	0.90	0.00	0.73	0.00	0.00	1.08
Avail Cap (c_a), veh/h	106	0	266	0	266	0	0	691
Upstream Filter (I)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	0.81
Uniform Delay (d1), s/veh	58.0	0.0	54.5	0.0	55.4	0.0	0.0	34.0
Incr Delay (d2), s/veh	186.7	0.0	31.1	0.0	6.2	0.0	0.0	54.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	244.7	0.0	85.6	0.0	61.6	0.0	0.0	88.3
1st-Term Q (Q1), veh/ln	1.8	0.0	3.9	0.0	2.3	0.0	0.0	11.3
2nd-Term Q (Q2), veh/ln	2.8	0.0	1.1	0.0	0.2	0.0	0.0	5.2
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	4.5	0.0	5.1	0.0	2.4	0.0	0.0	16.5
%ile Storage Ratio (RQ%)	0.50	0.00	0.62	0.00	0.13	0.00	0.00	2.13
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	7.9	0.0	0.0	0.0	0.0	0.0	0.0	13.6
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	8	0
Lane Assignment		T		T		T	T	
Lanes in Grp	0	1	0	2	0	2	2	0
Grp Vol (v), veh/h	0	704	0	1140	0	403	948	0
Grp Sat Flow (s), veh/h/ln	0	1727	0	1641	0	1641	1641	0
Q Serve Time (g_s), s	0.0	43.0	0.0	29.6	0.0	11.2	31.0	0.0
Cycle Q Clear Time (g_c), s	0.0	43.0	0.0	29.6	0.0	11.2	31.0	0.0
Lane Grp Cap (c), veh/h	0	619	0	1285	0	1088	848	0
V/C Ratio (X)	0.00	1.14	0.00	0.89	0.00	0.37	1.12	0.00
Avail Cap (c_a), veh/h	0	619	0	1285	0	1088	848	0
Upstream Filter (I)	0.00	1.00	0.00	0.81	0.00	1.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	38.5	0.0	11.1	0.0	30.6	44.5	0.0
Incr Delay (d2), s/veh	0.0	80.4	0.0	7.7	0.0	0.2	68.7	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	118.9	0.0	18.8	0.0	30.8	113.2	0.0
1st-Term Q (Q1), veh/ln	0.0	20.5	0.0	12.7	0.0	5.1	14.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	13.8	0.0	1.4	0.0	0.0	8.1	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	34.3	0.0	14.0	0.0	5.1	22.1	0.0
%ile Storage Ratio (RQ%)	0.00	0.28	0.00	0.19	0.00	0.01	0.06	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	21.3	0.0	0.0	0.0	0.0	25.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.3	0.0	0.0	0.0	0.0	0.3	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	18	0
Lane Assignment		R		R		R	R	
Lanes in Grp	0	1	0	1	0	1	1	0
Grp Vol (v), veh/h	0	165	0	104	0	135	226	0
Grp Sat Flow (s), veh/h/ln	0	1468	0	1468	0	1468	1468	0
Q Serve Time (g_s), s	0.0	9.7	0.0	2.1	0.0	4.7	14.0	0.0
Cycle Q Clear Time (g_c), s	0.0	9.7	0.0	2.1	0.0	4.7	14.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	526	0	575	0	487	379	0
V/C Ratio (X)	0.00	0.31	0.00	0.18	0.00	0.28	0.60	0.00
Avail Cap (c_a), veh/h	0	526	0	575	0	487	379	0
Upstream Filter (I)	0.00	1.00	0.00	0.81	0.00	1.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	27.8	0.0	8.1	0.0	9.8	29.2	0.0
Incr Delay (d2), s/veh	0.0	0.3	0.0	0.6	0.0	0.3	2.5	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	28.2	0.0	8.7	0.0	10.1	31.7	0.0
1st-Term Q (Q1), veh/ln	0.0	3.9	0.0	0.8	0.0	1.9	5.6	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.1	0.0	0.0	0.3	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	4.0	0.0	0.9	0.0	1.9	5.9	0.0
%ile Storage Ratio (RQ%)	0.00	0.33	0.00	0.12	0.00	0.21	0.72	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	72.3
HCM 2010 LOS	E



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	686	1049	96	221	872	208	129	648	152	127	371	124
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	746	1140	104	240	948	226	140	704	165	138	403	135
Adj No. of Lanes	2	2	1	2	2	1	2	1	1	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	691	1285	575	266	848	379	192	619	526	106	1088	487
Arrive On Green	0.43	0.78	0.78	0.08	0.26	0.26	0.06	0.36	0.36	0.03	0.33	0.33
Sat Flow, veh/h	3191	3282	1468	3191	3282	1468	3191	1727	1468	3191	3282	1468
Grp Volume(v), veh/h	746	1140	104	240	948	226	140	704	165	138	403	135
Grp Sat Flow(s),veh/h/ln	1596	1641	1468	1596	1641	1468	1596	1727	1468	1596	1641	1468
Q Serve(g_s), s	26.0	29.6	2.1	8.9	31.0	14.0	5.2	43.0	9.7	4.0	11.2	4.7
Cycle Q Clear(g_c), s	26.0	29.6	2.1	8.9	31.0	14.0	5.2	43.0	9.7	4.0	11.2	4.7
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	691	1285	575	266	848	379	192	619	526	106	1088	487
V/C Ratio(X)	1.08	0.89	0.18	0.90	1.12	0.60	0.73	1.14	0.31	1.30	0.37	0.28
Avail Cap(c_a), veh/h	691	1285	575	266	848	379	266	619	526	106	1088	487
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.81	0.81	0.81	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	34.0	11.1	8.1	54.5	44.5	29.2	55.4	38.5	27.8	58.0	30.6	9.8
Incr Delay (d2), s/veh	54.3	7.7	0.6	31.1	68.7	2.5	6.2	80.4	0.3	186.7	0.2	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	16.5	14.0	0.9	5.1	22.1	5.9	2.4	34.3	4.0	4.5	5.1	1.9
LnGrp Delay(d),s/veh	88.3	18.8	8.7	85.6	113.2	31.7	61.6	118.9	28.2	244.7	30.8	10.1
LnGrp LOS	F	B	A	F	F	C	E	F	C	F	C	B
Approach Vol, veh/h		1990			1414			1009			676	
Approach Delay, s/veh		44.3			95.5			96.1			70.3	
Approach LOS		D			F			F			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.0	47.0	14.0	51.0	11.2	43.8	30.0	35.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	4.0	43.0	10.0	47.0	10.0	37.0	26.0	31.0
Max Q Clear Time (g_c+I1), s	6.9	45.0	10.9	31.6	7.2	13.2	28.0	33.0
Green Ext Time (p_c), s	0.0	0.0	0.0	8.4	0.1	6.4	0.0	0.0

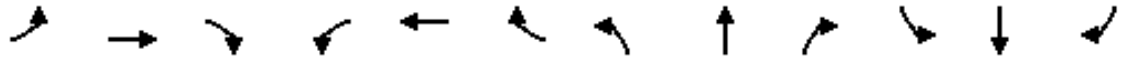
Intersection Summary	
HCM 2010 Ctrl Delay	72.3
HCM 2010 LOS	E

Intersection	
Intersection Delay, s/veh	51.7
Intersection LOS	F

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Vol, veh/h	0	176	501	256	0	79	334	27	0	44	68	64	0	20	259	188
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	191	545	278	0	86	363	29	0	48	74	70	0	22	282	204
Number of Lanes	0	0	1	1	0	0	1	1	0	0	1	0	0	0	1	1

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	2	2	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	2	1	2	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	2	2	2
HCM Control Delay	60	71.1	22.9	27.6
HCM LOS	F	F	C	D

Lane	NBLn1	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1	SBLn2
Vol Left, %	25%	26%	0%	19%	0%	7%	0%
Vol Thru, %	39%	74%	0%	81%	0%	93%	0%
Vol Right, %	36%	0%	100%	0%	100%	0%	100%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	176	677	256	413	27	279	188
LT Vol	44	176	0	79	0	20	0
Through Vol	68	501	0	334	0	259	0
RT Vol	64	0	256	0	27	0	188
Lane Flow Rate	191	736	278	449	29	303	204
Geometry Grp	6	7	7	7	7	7	7
Degree of Util (X)	0.518	1	0.612	1	0.066	0.75	0.464
Departure Headway (Hd)	9.751	8.753	7.919	8.931	8.132	8.901	8.166
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	369	419	459	409	443	406	439
Service Time	7.823	6.453	5.619	6.635	5.836	6.673	5.938
HCM Lane V/C Ratio	0.518	1.757	0.606	1.098	0.065	0.746	0.465
HCM Control Delay	22.9	74.2	22.3	75	11.4	34.1	17.9
HCM Lane LOS	C	F	C	F	B	D	C
HCM 95th-tile Q	2.9	12.4	4	12.3	0.2	6.1	2.4



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	79	176	31	137	214	115	83	213	21	106	365	53
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	86	191	34	149	233	125	90	232	23	115	397	58
Adj No. of Lanes	1	2	0	1	2	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	113	263	46	198	305	158	742	309	30	849	482	70
HCM Platoon Ratio	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.07	0.09	0.09	0.04	0.05	0.05	0.45	0.10	0.10	0.52	0.17	0.17
Ln Grp Delay, s/veh	53.8	48.3	49.1	48.9	47.6	48.9	15.4	67.3	68.2	12.2	61.7	62.7
Ln Grp LOS	D	D	D	D	D	D	B	E	E	B	E	E
Approach Vol, veh/h		311			507			345			570	
Approach Delay, s/veh		50.1			48.5			54.1			52.1	
Approach LOS		D			D			D			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	6	5	8	7
Case No	4.0	2.0	4.0	2.0	4.0	2.0	4.0	2.0
Phs Duration (G+Y+Rc), s	13.8	53.5	13.0	15.6	20.1	47.3	18.0	10.6
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	20.0	20.0	20.0	20.0	25.0	15.0	26.0	14.0
Max Allow Headway (MAH), s	4.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	9.2	5.5	8.5	10.6	14.9	5.0	13.0	6.9
Green Ext Time (g_e), s	0.6	0.5	0.5	0.5	1.2	0.4	1.0	0.4
Prob of Phs Call (p_c)	1.00	1.00	1.00	0.98	1.00	0.91	1.00	0.90
Prob of Max Out (p_x)	0.01	0.00	0.01	0.03	0.07	0.02	0.01	0.15

Left-Turn Movement Data								
Assigned Mvmt		1		3		5		7
Mvmt Sat Flow, veh/h		1645		1645		1645		1645

Through Movement Data								
Assigned Mvmt	2		4		6		8	
Mvmt Sat Flow, veh/h	3019		2793		2877		2093	

Right-Turn Movement Data								
Assigned Mvmt	12		14		16		18	
Mvmt Sat Flow, veh/h	297		489		417		1084	

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	0	5	0	7
Lane Assignment		(Prot)		(Prot)		(Prot)		(Prot)
Lanes in Grp	0	1	0	1	0	1	0	1

Grp Vol (v), veh/h	0	115	0	149	0	90	0	86
Grp Sat Flow (s), veh/h/ln	0	1645	0	1645	0	1645	0	1645
Q Serve Time (g_s), s	0.0	3.5	0.0	8.6	0.0	3.0	0.0	4.9
Cycle Q Clear Time (g_c), s	0.0	3.5	0.0	8.6	0.0	3.0	0.0	4.9
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	849	0	198	0	742	0	113
V/C Ratio (X)	0.00	0.14	0.00	0.75	0.00	0.12	0.00	0.76
Avail Cap (c_a), veh/h	0	849	0	343	0	742	0	240
Upstream Filter (I)	0.00	1.00	0.00	0.74	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	12.1	0.0	44.7	0.0	15.3	0.0	43.9
Incr Delay (d2), s/veh	0.0	0.1	0.0	4.2	0.0	0.1	0.0	9.9
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	12.2	0.0	48.9	0.0	15.4	0.0	53.8
1st-Term Q (Q1), veh/ln	0.0	1.6	0.0	3.9	0.0	1.4	0.0	2.2
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.3
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.6	0.0	4.2	0.0	1.4	0.0	2.6
%ile Storage Ratio (RQ%)	0.00	0.32	0.00	0.66	0.00	0.18	0.00	0.35
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	6	0	8	0
Lane Assignment	T		T		T		T	
Lanes in Grp	1	0	1	0	1	0	1	0
Grp Vol (v), veh/h	125	0	111	0	225	0	181	0
Grp Sat Flow (s), veh/h/ln	1641	0	1641	0	1641	0	1641	0
Q Serve Time (g_s), s	7.1	0.0	6.3	0.0	12.7	0.0	10.5	0.0
Cycle Q Clear Time (g_c), s	7.1	0.0	6.3	0.0	12.7	0.0	10.5	0.0
Lane Grp Cap (c), veh/h	168	0	154	0	275	0	239	0
V/C Ratio (X)	0.74	0.00	0.72	0.00	0.82	0.00	0.76	0.00
Avail Cap (c_a), veh/h	342	0	342	0	427	0	444	0
Upstream Filter (I)	1.00	0.00	1.00	0.00	1.00	0.00	0.74	0.00
Uniform Delay (d1), s/veh	41.9	0.0	42.2	0.0	38.6	0.0	44.0	0.0
Incr Delay (d2), s/veh	25.5	0.0	6.1	0.0	23.1	0.0	3.6	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	67.3	0.0	48.3	0.0	61.7	0.0	47.6	0.0
1st-Term Q (Q1), veh/ln	3.2	0.0	2.9	0.0	5.8	0.0	4.8	0.0
2nd-Term Q (Q2), veh/ln	1.2	0.0	0.3	0.0	1.8	0.0	0.2	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	4.4	0.0	3.1	0.0	7.5	0.0	5.0	0.0
%ile Storage Ratio (RQ%)	0.27	0.00	0.02	0.00	0.02	0.00	0.05	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

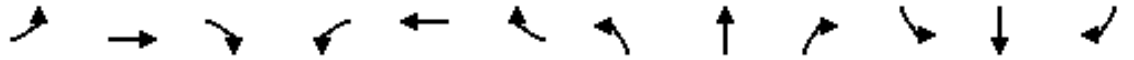
Right Lane Group Data								
Assigned Mvmt	12	0	14	0	16	0	18	0
Lane Assignment	T+R		T+R		T+R		T+R	
Lanes in Grp	1	0	1	0	1	0	1	0
Grp Vol (v), veh/h	130	0	114	0	230	0	177	0
Grp Sat Flow (s), veh/h/ln	1675	0	1641	0	1654	0	1536	0
Q Serve Time (g_s), s	7.2	0.0	6.5	0.0	12.9	0.0	11.0	0.0
Cycle Q Clear Time (g_c), s	7.2	0.0	6.5	0.0	12.9	0.0	11.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.18	0.00	0.30	0.00	0.25	0.00	0.71	0.00
Lane Grp Cap (c), veh/h	172	0	155	0	277	0	224	0
V/C Ratio (X)	0.76	0.00	0.74	0.00	0.83	0.00	0.79	0.00
Avail Cap (c_a), veh/h	349	0	342	0	431	0	416	0
Upstream Filter (I)	1.00	0.00	1.00	0.00	1.00	0.00	0.74	0.00
Uniform Delay (d1), s/veh	41.9	0.0	42.3	0.0	38.6	0.0	44.2	0.0
Incr Delay (d2), s/veh	26.3	0.0	6.7	0.0	24.0	0.0	4.7	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	68.2	0.0	49.1	0.0	62.7	0.0	48.9	0.0
1st-Term Q (Q1), veh/ln	3.4	0.0	2.9	0.0	5.9	0.0	4.7	0.0
2nd-Term Q (Q2), veh/ln	1.3	0.0	0.3	0.0	1.8	0.0	0.3	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	4.6	0.0	3.2	0.0	7.7	0.0	5.0	0.0
%ile Storage Ratio (RQ%)	0.28	0.00	0.02	0.00	0.02	0.00	0.05	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	51.1
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	79	176	31	137	214	115	83	213	21	106	365	53
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	86	191	34	149	233	125	90	232	23	115	397	58
Adj No. of Lanes	1	2	0	1	2	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	113	263	46	198	305	158	742	309	30	849	482	70
Arrive On Green	0.07	0.09	0.09	0.04	0.05	0.05	0.45	0.10	0.10	0.52	0.17	0.17
Sat Flow, veh/h	1645	2793	489	1645	2093	1084	1645	3019	297	1645	2877	417
Grp Volume(v), veh/h	86	111	114	149	181	177	90	125	130	115	225	230
Grp Sat Flow(s),veh/h/ln	1645	1641	1641	1645	1641	1536	1645	1641	1675	1645	1641	1654
Q Serve(g_s), s	4.9	6.3	6.5	8.6	10.5	11.0	3.0	7.1	7.2	3.5	12.7	12.9
Cycle Q Clear(g_c), s	4.9	6.3	6.5	8.6	10.5	11.0	3.0	7.1	7.2	3.5	12.7	12.9
Prop In Lane	1.00		0.30	1.00		0.71	1.00		0.18	1.00		0.25
Lane Grp Cap(c), veh/h	113	154	155	198	239	224	742	168	172	849	275	277
V/C Ratio(X)	0.76	0.72	0.74	0.75	0.76	0.79	0.12	0.74	0.76	0.14	0.82	0.83
Avail Cap(c_a), veh/h	240	342	342	343	444	416	742	342	349	849	427	431
HCM Platoon Ratio	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.74	0.74	0.74	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	43.9	42.2	42.3	44.7	44.0	44.2	15.3	41.9	41.9	12.1	38.6	38.6
Incr Delay (d2), s/veh	9.9	6.1	6.7	4.2	3.6	4.7	0.1	25.5	26.3	0.1	23.1	24.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.6	3.1	3.2	4.2	5.0	5.0	1.4	4.4	4.6	1.6	7.5	7.7
LnGrp Delay(d),s/veh	53.8	48.3	49.1	48.9	47.6	48.9	15.4	67.3	68.2	12.2	61.7	62.7
LnGrp LOS	D	D	D	D	D	D	B	E	E	B	E	E
Approach Vol, veh/h		311			507			345			570	
Approach Delay, s/veh		50.1			48.5			54.1			52.1	
Approach LOS		D			D			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	53.5	13.8	15.6	13.0	47.3	20.1	10.6	18.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	20.0	20.0	20.0	20.0	15.0	25.0	14.0	26.0
Max Q Clear Time (g_c+I1), s	5.5	9.2	10.6	8.5	5.0	14.9	6.9	13.0
Green Ext Time (p_c), s	0.5	0.6	0.5	0.5	0.4	1.2	0.4	1.0

Intersection Summary	
HCM 2010 Ctrl Delay	51.1
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	95	94	100	464	403	301	101	291	94	308	706	87
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	103	102	109	504	438	327	110	316	102	335	767	95
Adj No. of Lanes	1	2	0	1	2	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	129	273	245	514	721	535	120	372	118	333	827	102
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.08	0.17	0.17	0.31	0.40	0.40	0.07	0.15	0.15	0.20	0.28	0.28
Ln Grp Delay, s/veh	52.7	38.8	40.8	67.4	26.9	27.4	101.3	58.7	62.6	89.1	57.4	57.3
Ln Grp LOS	D	D	D	E	C	C	F	E	E	F	E	E
Approach Vol, veh/h		314			1269			528			1197	
Approach Delay, s/veh		44.1			43.1			69.1			66.2	
Approach LOS		D			D			E			E	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	6	5	7	8
Case No	4.0	2.0	4.0	2.0	4.0	2.0	2.0	4.0
Phs Duration (G+Y+Rc), s	18.6	23.4	20.0	34.0	31.0	11.0	11.5	42.5
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	16.0	19.0	16.0	29.0	28.0	7.0	13.0	32.0
Max Allow Headway (MAH), s	4.1	4.1	4.2	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	14.3	21.4	8.4	31.2	26.4	8.4	7.9	20.7
Green Ext Time (g_e), s	0.3	0.0	0.4	0.0	0.7	0.0	0.1	4.1
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	0.95	0.94	1.00
Prob of Max Out (p_x)	1.00	1.00	0.00	1.00	1.00	1.00	0.39	0.00

Left-Turn Movement Data								
Assigned Mvmt		1		3		5	7	
Mvmt Sat Flow, veh/h		1645		1645		1645	1645	

Through Movement Data								
Assigned Mvmt	2		4		6			8
Mvmt Sat Flow, veh/h	2453		1641		2940			1798

Right-Turn Movement Data								
Assigned Mvmt	12		14		16			18
Mvmt Sat Flow, veh/h	778		1468		364			1335

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	0	5	7	0
Lane Assignment		(Prot)		(Prot)		(Prot)	(Prot)	
Lanes in Grp	0	1	0	1	0	1	1	0

Grp Vol (v), veh/h	0	335	0	504	0	110	103	0
Grp Sat Flow (s), veh/h/ln	0	1645	0	1645	0	1645	1645	0
Q Serve Time (g_s), s	0.0	19.4	0.0	29.2	0.0	6.4	5.9	0.0
Cycle Q Clear Time (g_c), s	0.0	19.4	0.0	29.2	0.0	6.4	5.9	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	333	0	514	0	120	129	0
V/C Ratio (X)	0.00	1.01	0.00	0.98	0.00	0.92	0.80	0.00
Avail Cap (c_a), veh/h	0	333	0	514	0	120	223	0
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.83	0.00
Uniform Delay (d1), s/veh	0.0	38.3	0.0	32.7	0.0	44.2	43.5	0.0
Incr Delay (d2), s/veh	0.0	50.8	0.0	34.7	0.0	57.1	9.2	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	89.1	0.0	67.4	0.0	101.3	52.7	0.0
1st-Term Q (Q1), veh/ln	0.0	8.8	0.0	13.2	0.0	2.9	2.7	0.0
2nd-Term Q (Q2), veh/ln	0.0	4.7	0.0	5.0	0.0	1.9	0.3	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	13.5	0.0	18.1	0.0	4.8	3.0	0.0
%ile Storage Ratio (RQ%)	0.00	3.54	0.00	8.29	0.00	1.04	0.45	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	6	0	0	8
Lane Assignment	T		T		T			T
Lanes in Grp	1	0	1	0	1	0	0	1
Grp Vol (v), veh/h	210	0	102	0	428	0	0	400
Grp Sat Flow (s), veh/h/ln	1641	0	1641	0	1641	0	0	1641
Q Serve Time (g_s), s	11.9	0.0	5.3	0.0	24.3	0.0	0.0	18.5
Cycle Q Clear Time (g_c), s	11.9	0.0	5.3	0.0	24.3	0.0	0.0	18.5
Lane Grp Cap (c), veh/h	249	0	273	0	462	0	0	658
V/C Ratio (X)	0.84	0.00	0.37	0.00	0.93	0.00	0.00	0.61
Avail Cap (c_a), veh/h	273	0	273	0	479	0	0	658
Upstream Filter (I)	1.00	0.00	0.83	0.00	1.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	39.6	0.0	35.5	0.0	33.5	0.0	0.0	22.8
Incr Delay (d2), s/veh	19.1	0.0	3.2	0.0	23.9	0.0	0.0	4.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	58.7	0.0	38.8	0.0	57.4	0.0	0.0	26.9
1st-Term Q (Q1), veh/ln	5.4	0.0	2.4	0.0	10.9	0.0	0.0	8.3
2nd-Term Q (Q2), veh/ln	1.3	0.0	0.2	0.0	3.1	0.0	0.0	0.8

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	6.7	0.0	2.7	0.0	14.0	0.0	0.0	9.1
%ile Storage Ratio (RQ%)	0.43	0.00	0.03	0.00	0.08	0.00	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	16	0	0	18
Lane Assignment	T+R		T+R		T+R			T+R
Lanes in Grp	1	0	1	0	1	0	0	1
Grp Vol (v), veh/h	208	0	109	0	434	0	0	365
Grp Sat Flow (s), veh/h/ln	1590	0	1468	0	1663	0	0	1492
Q Serve Time (g_s), s	12.3	0.0	6.4	0.0	24.4	0.0	0.0	18.7
Cycle Q Clear Time (g_c), s	12.3	0.0	6.4	0.0	24.4	0.0	0.0	18.7
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.49	0.00	1.00	0.00	0.22	0.00	0.00	0.89
Lane Grp Cap (c), veh/h	241	0	245	0	468	0	0	598
V/C Ratio (X)	0.86	0.00	0.45	0.00	0.93	0.00	0.00	0.61
Avail Cap (c_a), veh/h	265	0	245	0	485	0	0	598
Upstream Filter (I)	1.00	0.00	0.83	0.00	1.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	39.7	0.0	36.0	0.0	33.5	0.0	0.0	22.8
Incr Delay (d2), s/veh	22.8	0.0	4.8	0.0	23.7	0.0	0.0	4.6
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	62.6	0.0	40.8	0.0	57.3	0.0	0.0	27.4
1st-Term Q (Q1), veh/ln	5.4	0.0	2.6	0.0	11.2	0.0	0.0	7.6
2nd-Term Q (Q2), veh/ln	1.5	0.0	0.3	0.0	3.1	0.0	0.0	0.8
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	6.9	0.0	2.9	0.0	14.3	0.0	0.0	8.4
%ile Storage Ratio (RQ%)	0.44	0.00	0.03	0.00	0.08	0.00	0.00	0.02
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	55.7
HCM 2010 LOS	E

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	95	94	100	464	403	301	101	291	94	308	706	87
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	103	102	109	504	438	327	110	316	102	335	767	95
Adj No. of Lanes	1	2	0	1	2	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	129	273	245	514	721	535	120	372	118	333	827	102
Arrive On Green	0.08	0.17	0.17	0.31	0.40	0.40	0.07	0.15	0.15	0.20	0.28	0.28
Sat Flow, veh/h	1645	1641	1468	1645	1798	1335	1645	2453	778	1645	2940	364
Grp Volume(v), veh/h	103	102	109	504	400	365	110	210	208	335	428	434
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1641	1492	1645	1641	1590	1645	1641	1663
Q Serve(g_s), s	5.9	5.3	6.4	29.2	18.5	18.7	6.4	11.9	12.3	19.4	24.3	24.4
Cycle Q Clear(g_c), s	5.9	5.3	6.4	29.2	18.5	18.7	6.4	11.9	12.3	19.4	24.3	24.4
Prop In Lane	1.00		1.00	1.00		0.89	1.00		0.49	1.00		0.22
Lane Grp Cap(c), veh/h	129	273	245	514	658	598	120	249	241	333	462	468
V/C Ratio(X)	0.80	0.37	0.45	0.98	0.61	0.61	0.92	0.84	0.86	1.01	0.93	0.93
Avail Cap(c_a), veh/h	223	273	245	514	658	598	120	273	265	333	479	485
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.83	0.83	0.83	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	43.5	35.5	36.0	32.7	22.8	22.8	44.2	39.6	39.7	38.3	33.5	33.5
Incr Delay (d2), s/veh	9.2	3.2	4.8	34.7	4.1	4.6	57.1	19.1	22.8	50.8	23.9	23.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.0	2.7	2.9	18.1	9.1	8.4	4.8	6.7	6.9	13.5	14.0	14.3
LnGrp Delay(d),s/veh	52.7	38.8	40.8	67.4	26.9	27.4	101.3	58.7	62.6	89.1	57.4	57.3
LnGrp LOS	D	D	D	E	C	C	F	E	E	F	E	E
Approach Vol, veh/h		314			1269			528			1197	
Approach Delay, s/veh		44.1			43.1			69.1			66.2	
Approach LOS		D			D			E			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	23.4	18.6	34.0	20.0	11.0	31.0	11.5	42.5
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	19.0	16.0	29.0	16.0	7.0	28.0	13.0	32.0
Max Q Clear Time (g_c+I1), s	21.4	14.3	31.2	8.4	8.4	26.4	7.9	20.7
Green Ext Time (p_c), s	0.0	0.3	0.0	0.4	0.0	0.7	0.1	4.1

Intersection Summary	
HCM 2010 Ctrl Delay	55.7
HCM 2010 LOS	E

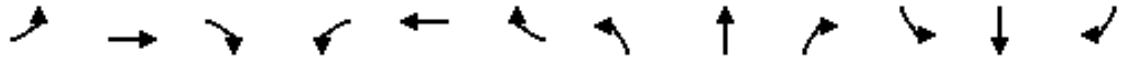
Intersection	
Int Delay, s/veh	6.7

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	129	736	56	57	179	53
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	140	800	61	62	195	58

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	940	0	724	540
Stage 1	-	-	-	-	540	-
Stage 2	-	-	-	-	184	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	698	-	381	527
Stage 1	-	-	-	-	568	-
Stage 2	-	-	-	-	829	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	698	-	346	527
Mov Cap-2 Maneuver	-	-	-	-	346	-
Stage 1	-	-	-	-	568	-
Stage 2	-	-	-	-	754	-

Approach	EB	WB	NB
HCM Control Delay, s	0	5.3	32.2
HCM LOS			D

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	375	-	-	698	-
HCM Lane V/C Ratio	0.672	-	-	0.087	-
HCM Control Delay (s)	32.2	-	-	10.7	0
HCM Lane LOS	D	-	-	B	A
HCM 95th %tile Q(veh)	4.7	-	-	0.3	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	401	1176	194	545	1050	391	350	1088	346	249	1085	152
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	436	1278	211	592	1141	425	380	1183	376	271	1179	165
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	219	793	355	302	957	428	206	662	563	186	1039	465
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.13	0.24	0.24	0.18	0.29	0.29	0.13	0.38	0.38	0.06	0.32	0.32
Ln Grp Delay, s/veh	512.5	326.5	43.0	483.4	129.9	40.1	452.3	397.1	17.0	264.3	102.8	31.8
Ln Grp LOS	F	F	D	F	F	D	F	F	B	F	F	C
Approach Vol, veh/h		1925			2158			1939			1615	
Approach Delay, s/veh		337.5			209.2			334.2			122.6	
Approach LOS		F			F			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	5	6	7	8
Case No	3.0	2.0	2.0	3.0	2.0	3.0	2.0	3.0
Phs Duration (G+Y+Rc), s	50.0	11.0	26.0	33.0	19.0	42.0	20.0	39.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	46.0	7.0	22.0	29.0	15.0	38.0	16.0	35.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	48.0	9.0	24.0	31.0	17.0	40.0	18.0	37.0
Green Ext Time (g_e), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prob of Max Out (p_x)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt		1	3		5		7	
Mvmt Sat Flow, veh/h		3191	1645		1645		1645	

Through Movement Data								
Assigned Mvmt	2			4		6		8
Mvmt Sat Flow, veh/h	1727			3282		3282		3282

Right-Turn Movement Data								
Assigned Mvmt	12			14		16		18
Mvmt Sat Flow, veh/h	1468			1468		1468		1468

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	5	0	7	0
Lane Assignment		(Prot)	(Prot)		(Prot)		(Prot)	
Lanes in Grp	0	2	1	0	1	0	1	0

Grp Vol (v), veh/h	0	271	592	0	380	0	436	0
Grp Sat Flow (s), veh/h/ln	0	1596	1645	0	1645	0	1645	0
Q Serve Time (g_s), s	0.0	7.0	22.0	0.0	15.0	0.0	16.0	0.0
Cycle Q Clear Time (g_c), s	0.0	7.0	22.0	0.0	15.0	0.0	16.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	186	302	0	206	0	219	0
V/C Ratio (X)	0.00	1.46	1.96	0.00	1.85	0.00	1.99	0.00
Avail Cap (c_a), veh/h	0	186	302	0	206	0	219	0
Upstream Filter (I)	0.00	0.09	0.09	0.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	56.5	49.0	0.0	52.5	0.0	52.0	0.0
Incr Delay (d2), s/veh	0.0	207.8	434.4	0.0	399.8	0.0	460.5	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	264.3	483.4	0.0	452.3	0.0	512.5	0.0
1st-Term Q (Q1), veh/ln	0.0	3.1	10.0	0.0	6.8	0.0	7.3	0.0
2nd-Term Q (Q2), veh/ln	0.0	5.4	36.4	0.0	22.8	0.0	28.1	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	8.5	46.4	0.0	29.6	0.0	35.3	0.0
%ile Storage Ratio (RQ%)	0.00	0.01	0.24	0.00	0.24	0.00	0.05	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	21.2	72.6	0.0	43.6	0.0	54.2	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.4	0.5	0.0	0.5	0.0	0.5	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	0	6	0	8
Lane Assignment	T			T		T		T
Lanes in Grp	1	0	0	2	0	2	0	2
Grp Vol (v), veh/h	1183	0	0	1278	0	1179	0	1141
Grp Sat Flow (s), veh/h/ln	1727	0	0	1641	0	1641	0	1641
Q Serve Time (g_s), s	46.0	0.0	0.0	29.0	0.0	38.0	0.0	35.0
Cycle Q Clear Time (g_c), s	46.0	0.0	0.0	29.0	0.0	38.0	0.0	35.0
Lane Grp Cap (c), veh/h	662	0	0	793	0	1039	0	957
V/C Ratio (X)	1.79	0.00	0.00	1.61	0.00	1.13	0.00	1.19
Avail Cap (c_a), veh/h	662	0	0	793	0	1039	0	957
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	0.09	0.00	0.09
Uniform Delay (d1), s/veh	37.0	0.0	0.0	45.5	0.0	41.0	0.0	42.5
Incr Delay (d2), s/veh	360.1	0.0	0.0	281.0	0.0	61.8	0.0	87.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	397.1	0.0	0.0	326.5	0.0	102.8	0.0	129.9
1st-Term Q (Q1), veh/ln	21.9	0.0	0.0	13.1	0.0	17.2	0.0	15.8
2nd-Term Q (Q2), veh/ln	66.2	0.0	0.0	31.0	0.0	8.9	0.0	11.6

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	88.1	0.0	0.0	44.1	0.0	26.1	0.0	27.4
%ile Storage Ratio (RQ%)	0.70	0.00	0.00	0.06	0.00	0.03	0.00	0.14
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	130.2	0.0	0.0	121.2	0.0	34.9	0.0	46.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.4	0.0	0.0	0.4	0.0	0.3	0.0	0.3

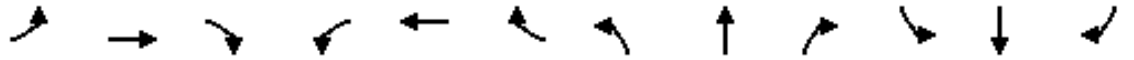
Right Lane Group Data								
Assigned Mvmt	12	0	0	14	0	16	0	18
Lane Assignment	R			R		R		R
Lanes in Grp	1	0	0	1	0	1	0	1
Grp Vol (v), veh/h	376	0	0	211	0	165	0	425
Grp Sat Flow (s), veh/h/ln	1468	0	0	1468	0	1468	0	1468
Q Serve Time (g_s), s	15.1	0.0	0.0	15.3	0.0	10.4	0.0	28.5
Cycle Q Clear Time (g_c), s	15.1	0.0	0.0	15.3	0.0	10.4	0.0	28.5
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	563	0	0	355	0	465	0	428
V/C Ratio (X)	0.67	0.00	0.00	0.59	0.00	0.35	0.00	0.99
Avail Cap (c_a), veh/h	563	0	0	355	0	465	0	428
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	0.09	0.00	0.09
Uniform Delay (d1), s/veh	10.8	0.0	0.0	40.3	0.0	31.6	0.0	28.7
Incr Delay (d2), s/veh	6.2	0.0	0.0	2.7	0.0	0.2	0.0	11.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	17.0	0.0	0.0	43.0	0.0	31.8	0.0	40.1
1st-Term Q (Q1), veh/ln	6.1	0.0	0.0	6.2	0.0	4.2	0.0	11.6
2nd-Term Q (Q2), veh/ln	1.0	0.0	0.0	0.3	0.0	0.0	0.0	1.3
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	7.0	0.0	0.0	6.5	0.0	4.2	0.0	12.9
%ile Storage Ratio (RQ%)	0.06	0.00	0.00	0.01	0.00	0.01	0.00	0.07
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	255.0
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	401	1176	194	545	1050	391	350	1088	346	249	1085	152
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	436	1278	211	592	1141	425	380	1183	376	271	1179	165
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	2	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	219	793	355	302	957	428	206	662	563	186	1039	465
Arrive On Green	0.13	0.24	0.24	0.18	0.29	0.29	0.13	0.38	0.38	0.06	0.32	0.32
Sat Flow, veh/h	1645	3282	1468	1645	3282	1468	1645	1727	1468	3191	3282	1468
Grp Volume(v), veh/h	436	1278	211	592	1141	425	380	1183	376	271	1179	165
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1641	1468	1645	1727	1468	1596	1641	1468
Q Serve(g_s), s	16.0	29.0	15.3	22.0	35.0	28.5	15.0	46.0	15.1	7.0	38.0	10.4
Cycle Q Clear(g_c), s	16.0	29.0	15.3	22.0	35.0	28.5	15.0	46.0	15.1	7.0	38.0	10.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	219	793	355	302	957	428	206	662	563	186	1039	465
V/C Ratio(X)	1.99	1.61	0.59	1.96	1.19	0.99	1.85	1.79	0.67	1.46	1.13	0.35
Avail Cap(c_a), veh/h	219	793	355	302	957	428	206	662	563	186	1039	465
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.09	0.09	0.09	1.00	1.00	1.00	0.09	0.09	0.09
Uniform Delay (d), s/veh	52.0	45.5	40.3	49.0	42.5	28.7	52.5	37.0	10.8	56.5	41.0	31.6
Incr Delay (d2), s/veh	460.5	281.0	2.7	434.4	87.4	11.3	399.8	360.1	6.2	207.8	61.8	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	85.3	44.1	6.5	46.4	27.4	12.9	29.6	88.1	7.0	8.5	26.1	4.2
LnGrp Delay(d),s/veh	512.5	326.5	43.0	483.4	129.9	40.1	452.3	397.1	17.0	264.3	102.8	31.8
LnGrp LOS	F	F	D	F	F	D	F	F	B	F	F	C
Approach Vol, veh/h		1925			2158			1939			1615	
Approach Delay, s/veh		337.5			209.2			334.2			122.6	
Approach LOS		F			F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.0	50.0	26.0	33.0	19.0	42.0	20.0	39.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	7.0	46.0	22.0	29.0	15.0	38.0	16.0	35.0
Max Q Clear Time (g_c+I1), s	9.0	48.0	24.0	31.0	17.0	40.0	18.0	37.0
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	255.0
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	317	3789	337	418	1381	220	796	1391	224	314	3001	261
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	345	4118	366	454	1501	239	865	1512	243	341	3262	284
Adj No. of Lanes	2	2	1	2	2	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	160	1313	587	186	1340	600	319	1454	453	319	1454	453
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.05	0.40	0.40	0.06	0.41	0.41	0.10	0.31	0.31	0.10	0.31	0.31
Ln Grp Delay, s/veh	581.8	997.8	15.2	708.8	93.1	25.2	824.5	62.0	23.5	91.4	601.3	36.2
Ln Grp LOS	F	F	B	F	F	C	F	F	C	F	F	D
Approach Vol, veh/h		4829			2194			2620			3887	
Approach Delay, s/veh		893.6			213.1			310.2			515.3	
Approach LOS		F			F			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	6	5	8	7
Case No	3.0	2.0	2.0	3.0	3.0	2.0	3.0	2.0
Phs Duration (G+Y+Rc), s	41.0	16.0	11.0	52.0	41.0	16.0	53.0	10.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	37.0	12.0	7.0	48.0	37.0	12.0	49.0	6.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.0	4.0	4.1	4.1	4.0
Max Q Clear (g_c+I1), s	39.0	14.0	9.0	50.0	39.0	14.0	51.0	8.0
Green Ext Time (g_e), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prob of Max Out (p_x)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt		1	3			5		7
Mvmt Sat Flow, veh/h		3191	3191			3191		3191

Through Movement Data								
Assigned Mvmt	2			4	6		8	
Mvmt Sat Flow, veh/h	4715			3282	4715		3282	

Right-Turn Movement Data								
Assigned Mvmt	12			14	16		18	
Mvmt Sat Flow, veh/h	1468			1468	1468		1468	

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	0	5	0	7
Lane Assignment		(Prot)	(Prot)			(Prot)		(Prot)
Lanes in Grp	0	2	2	0	0	2	0	2

Grp Vol (v), veh/h	0	341	454	0	0	865	0	345
Grp Sat Flow (s), veh/h/ln	0	1596	1596	0	0	1596	0	1596
Q Serve Time (g_s), s	0.0	12.0	7.0	0.0	0.0	12.0	0.0	6.0
Cycle Q Clear Time (g_c), s	0.0	12.0	7.0	0.0	0.0	12.0	0.0	6.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	319	186	0	0	319	0	160
V/C Ratio (X)	0.00	1.07	2.44	0.00	0.00	2.71	0.00	2.16
Avail Cap (c_a), veh/h	0	319	186	0	0	319	0	160
Upstream Filter (I)	0.00	0.09	0.30	0.00	0.00	0.09	0.00	0.09
Uniform Delay (d1), s/veh	0.0	54.0	56.5	0.0	0.0	54.0	0.0	57.0
Incr Delay (d2), s/veh	0.0	37.4	652.3	0.0	0.0	770.5	0.0	524.8
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	91.4	708.8	0.0	0.0	824.5	0.0	581.8
1st-Term Q (Q1), veh/ln	0.0	5.3	3.1	0.0	0.0	5.3	0.0	2.6
2nd-Term Q (Q2), veh/ln	0.0	1.7	16.9	0.0	0.0	34.2	0.0	11.6
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	6.9	19.9	0.0	0.0	39.4	0.0	14.3
%ile Storage Ratio (RQ%)	0.00	0.01	0.04	0.00	0.00	0.10	0.00	0.08
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	5.5	67.0	0.0	0.0	136.5	0.0	46.4
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.3	0.6	0.0	0.0	0.7	0.0	0.5

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	6	0	8	0
Lane Assignment	T			T	T		T	
Lanes in Grp	3	0	0	2	3	0	2	0
Grp Vol (v), veh/h	1512	0	0	4118	3262	0	1501	0
Grp Sat Flow (s), veh/h/ln	1572	0	0	1641	1572	0	1641	0
Q Serve Time (g_s), s	37.0	0.0	0.0	48.0	37.0	0.0	49.0	0.0
Cycle Q Clear Time (g_c), s	37.0	0.0	0.0	48.0	37.0	0.0	49.0	0.0
Lane Grp Cap (c), veh/h	1454	0	0	1313	1454	0	1340	0
V/C Ratio (X)	1.04	0.00	0.00	3.14	2.24	0.00	1.12	0.00
Avail Cap (c_a), veh/h	1454	0	0	1313	1454	0	1340	0
Upstream Filter (I)	0.09	0.00	0.00	0.09	0.09	0.00	0.30	0.00
Uniform Delay (d1), s/veh	41.5	0.0	0.0	36.0	41.5	0.0	35.5	0.0
Incr Delay (d2), s/veh	20.5	0.0	0.0	961.8	559.8	0.0	57.6	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	62.0	0.0	0.0	997.8	601.3	0.0	93.1	0.0
1st-Term Q (Q1), veh/ln	16.0	0.0	0.0	21.7	16.0	0.0	22.1	0.0
2nd-Term Q (Q2), veh/ln	2.8	0.0	0.0	175.4	75.4	0.0	10.7	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	18.8	0.0	0.0	197.1	91.4	0.0	32.9	0.0
%ile Storage Ratio (RQ%)	0.05	0.00	0.00	1.04	0.12	0.00	0.07	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	14.5	0.0	0.0	701.3	452.0	0.0	40.2	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.3	0.0	0.0	0.8	0.6	0.0	0.3	0.0

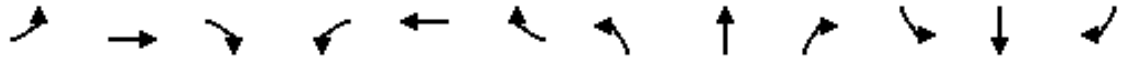
Right Lane Group Data								
Assigned Mvmt	12	0	0	14	16	0	18	0
Lane Assignment	R			R	R		R	
Lanes in Grp	1	0	0	1	1	0	1	0
Grp Vol (v), veh/h	243	0	0	366	284	0	239	0
Grp Sat Flow (s), veh/h/ln	1468	0	0	1468	1468	0	1468	0
Q Serve Time (g_s), s	13.5	0.0	0.0	17.3	19.9	0.0	13.8	0.0
Cycle Q Clear Time (g_c), s	13.5	0.0	0.0	17.3	19.9	0.0	13.8	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	453	0	0	587	453	0	600	0
V/C Ratio (X)	0.54	0.00	0.00	0.62	0.63	0.00	0.40	0.00
Avail Cap (c_a), veh/h	453	0	0	587	453	0	600	0
Upstream Filter (I)	0.09	0.00	0.00	0.09	0.09	0.00	0.30	0.00
Uniform Delay (d1), s/veh	23.1	0.0	0.0	15.0	35.6	0.0	25.1	0.0
Incr Delay (d2), s/veh	0.4	0.0	0.0	0.2	0.6	0.0	0.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	23.5	0.0	0.0	15.2	36.2	0.0	25.2	0.0
1st-Term Q (Q1), veh/ln	5.5	0.0	0.0	6.9	8.0	0.0	5.6	0.0
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	5.5	0.0	0.0	6.9	8.1	0.0	5.6	0.0
%ile Storage Ratio (RQ%)	0.01	0.00	0.00	0.04	0.01	0.00	0.01	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	561.6
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	317	3789	337	418	1381	220	796	1391	224	314	3001	261
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	345	4118	366	454	1501	239	865	1512	243	341	3262	284
Adj No. of Lanes	2	2	1	2	2	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	160	1313	587	186	1340	600	319	1454	453	319	1454	453
Arrive On Green	0.05	0.40	0.40	0.06	0.41	0.41	0.10	0.31	0.31	0.10	0.31	0.31
Sat Flow, veh/h	3191	3282	1468	3191	3282	1468	3191	4715	1468	3191	4715	1468
Grp Volume(v), veh/h	345	4118	366	454	1501	239	865	1512	243	341	3262	284
Grp Sat Flow(s),veh/h/ln	1596	1641	1468	1596	1641	1468	1596	1572	1468	1596	1572	1468
Q Serve(g_s), s	6.0	48.0	17.3	7.0	49.0	13.8	12.0	37.0	13.5	12.0	37.0	19.9
Cycle Q Clear(g_c), s	6.0	48.0	17.3	7.0	49.0	13.8	12.0	37.0	13.5	12.0	37.0	19.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	160	1313	587	186	1340	600	319	1454	453	319	1454	453
V/C Ratio(X)	2.16	3.14	0.62	2.44	1.12	0.40	2.71	1.04	0.54	1.07	2.24	0.63
Avail Cap(c_a), veh/h	160	1313	587	186	1340	600	319	1454	453	319	1454	453
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.09	0.09	0.09	0.30	0.30	0.30	0.09	0.09	0.09	0.09	0.09	0.09
Uniform Delay (d), s/veh	57.0	36.0	15.0	56.5	35.5	25.1	54.0	41.5	23.1	54.0	41.5	35.6
Incr Delay (d2), s/veh	524.8	961.8	0.2	652.3	57.6	0.1	770.5	20.5	0.4	37.4	559.8	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	14.3	197.1	6.9	19.9	32.9	5.6	39.4	18.8	5.5	6.9	91.4	8.1
LnGrp Delay(d),s/veh	581.8	997.8	15.2	708.8	93.1	25.2	824.5	62.0	23.5	91.4	601.3	36.2
LnGrp LOS	F	F	B	F	F	C	F	F	C	F	F	D
Approach Vol, veh/h		4829			2194			2620			3887	
Approach Delay, s/veh		893.6			213.1			310.2			515.3	
Approach LOS		F			F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	16.0	41.0	11.0	52.0	16.0	41.0	10.0	53.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	12.0	37.0	7.0	48.0	12.0	37.0	6.0	49.0
Max Q Clear Time (g_c+I1), s	14.0	39.0	9.0	50.0	14.0	39.0	8.0	51.0
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	561.6
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	966	875	793	618	2343	419	518	2272	306	1093	1105	1117
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	1050	951	862	672	2547	455	563	2470	333	1188	1201	1214
Adj No. of Lanes	2	3	1	2	3	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	452	1533	477	293	1297	404	266	1375	428	505	1729	538
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.14	0.32	0.32	0.09	0.28	0.28	0.08	0.29	0.29	0.16	0.37	0.37
Ln Grp Delay, s/veh	653.5	35.0	395.7	648.9	480.2	104.7	570.2	403.6	51.9	664.6	34.6	608.7
Ln Grp LOS	F	D	F	F	F	F	F	F	D	F	C	F
Approach Vol, veh/h		2863			3674			3366			3603	
Approach Delay, s/veh		370.4			464.5			396.7			435.8	
Approach LOS		F			F			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	6	5	8	7
Case No	2.0	3.0	2.0	3.0	3.0	2.0	3.0	2.0
Phs Duration (G+Y+Rc), s	23.0	39.0	15.0	43.0	48.0	14.0	37.0	21.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	19.0	35.0	11.0	39.0	44.0	10.0	33.0	17.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.2	4.2	4.1	4.1	4.2
Max Q Clear (g_c+I1), s	21.0	37.0	13.0	32.3	46.0	12.0	35.0	19.0
Green Ext Time (g_e), s	0.0	0.0	0.0	5.8	0.0	0.0	0.0	0.0
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prob of Max Out (p_x)	1.00	1.00	1.00	0.94	1.00	1.00	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt	1		3			5		7
Mvmt Sat Flow, veh/h	3191		3191			3191		3191

Through Movement Data								
Assigned Mvmt		2		4	6		8	
Mvmt Sat Flow, veh/h		4715		4715	4715		4715	

Right-Turn Movement Data								
Assigned Mvmt		12		14	16		18	
Mvmt Sat Flow, veh/h		1468		1468	1468		1468	

Left Lane Group Data								
Assigned Mvmt	1	0	3	0	0	5	0	7
Lane Assignment	(Prot)		(Prot)			(Prot)		(Prot)
Lanes in Grp	2	0	2	0	0	2	0	2

Grp Vol (v), veh/h	1188	0	672	0	0	563	0	1050
Grp Sat Flow (s), veh/h/ln	1596	0	1596	0	0	1596	0	1596
Q Serve Time (g_s), s	19.0	0.0	11.0	0.0	0.0	10.0	0.0	17.0
Cycle Q Clear Time (g_c), s	19.0	0.0	11.0	0.0	0.0	10.0	0.0	17.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	505	0	293	0	0	266	0	452
V/C Ratio (X)	2.35	0.00	2.30	0.00	0.00	2.12	0.00	2.32
Avail Cap (c_a), veh/h	505	0	293	0	0	266	0	452
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	50.5	0.0	54.5	0.0	0.0	55.0	0.0	51.5
Incr Delay (d2), s/veh	614.1	0.0	594.4	0.0	0.0	515.2	0.0	602.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	664.6	0.0	648.9	0.0	0.0	570.2	0.0	653.5
1st-Term Q (Q1), veh/ln	8.4	0.0	4.8	0.0	0.0	4.4	0.0	7.5
2nd-Term Q (Q2), veh/ln	43.1	0.0	24.2	0.0	0.0	19.0	0.0	37.8
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	51.5	0.0	29.0	0.0	0.0	23.4	0.0	45.3
%ile Storage Ratio (RQ%)	0.45	0.00	0.59	0.00	0.00	0.13	0.00	0.63
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	170.7	0.0	94.9	0.0	0.0	74.3	0.0	149.5
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.6	0.0	0.6	0.0	0.0	0.5	0.0	0.6

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	6	0	8	0
Lane Assignment		T		T	T		T	
Lanes in Grp	0	3	0	3	3	0	3	0
Grp Vol (v), veh/h	0	2470	0	951	1201	0	2547	0
Grp Sat Flow (s), veh/h/ln	0	1572	0	1572	1572	0	1572	0
Q Serve Time (g_s), s	0.0	35.0	0.0	20.5	26.0	0.0	33.0	0.0
Cycle Q Clear Time (g_c), s	0.0	35.0	0.0	20.5	26.0	0.0	33.0	0.0
Lane Grp Cap (c), veh/h	0	1375	0	1533	1729	0	1297	0
V/C Ratio (X)	0.00	1.80	0.00	0.62	0.69	0.00	1.96	0.00
Avail Cap (c_a), veh/h	0	1375	0	1533	1729	0	1297	0
Upstream Filter (I)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	42.5	0.0	34.2	32.3	0.0	43.5	0.0
Incr Delay (d2), s/veh	0.0	361.1	0.0	0.8	2.3	0.0	436.7	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	403.6	0.0	35.0	34.6	0.0	480.2	0.0
1st-Term Q (Q1), veh/ln	0.0	15.2	0.0	8.9	11.2	0.0	14.3	0.0
2nd-Term Q (Q2), veh/ln	0.0	46.0	0.0	0.1	0.4	0.0	52.4	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	61.1	0.0	9.0	11.6	0.0	66.7	0.0
%ile Storage Ratio (RQ%)	0.00	0.35	0.00	0.12	0.10	0.00	1.36	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	273.7	0.0	0.0	0.0	0.0	312.6	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.4	0.0	0.0	0.0	0.0	0.5	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	16	0	18	0
Lane Assignment		R		R	R		R	
Lanes in Grp	0	1	0	1	1	0	1	0
Grp Vol (v), veh/h	0	333	0	862	1214	0	455	0
Grp Sat Flow (s), veh/h/ln	0	1468	0	1468	1468	0	1468	0
Q Serve Time (g_s), s	0.0	24.9	0.0	30.3	44.0	0.0	22.8	0.0
Cycle Q Clear Time (g_c), s	0.0	24.9	0.0	30.3	44.0	0.0	22.8	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	428	0	477	538	0	404	0
V/C Ratio (X)	0.00	0.78	0.00	1.81	2.26	0.00	1.13	0.00
Avail Cap (c_a), veh/h	0	428	0	477	538	0	404	0
Upstream Filter (I)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	38.9	0.0	24.5	38.0	0.0	20.7	0.0
Incr Delay (d2), s/veh	0.0	13.0	0.0	371.2	570.7	0.0	84.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	51.9	0.0	395.7	608.7	0.0	104.7	0.0
1st-Term Q (Q1), veh/ln	0.0	10.1	0.0	12.2	17.8	0.0	9.2	0.0
2nd-Term Q (Q2), veh/ln	0.0	1.5	0.0	49.2	85.3	0.0	9.4	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	11.6	0.0	61.4	103.1	0.0	18.6	0.0
%ile Storage Ratio (RQ%)	0.00	0.07	0.00	0.85	0.90	0.00	0.38	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	96.2	168.9	0.0	12.8	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.5	0.6	0.0	0.3	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	420.0
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	966	875	793	618	2343	419	518	2272	306	1093	1105	1117
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	1050	951	862	672	2547	455	563	2470	333	1188	1201	1214
Adj No. of Lanes	2	3	1	2	3	1	2	3	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	452	1533	477	293	1297	404	266	1375	428	505	1729	538
Arrive On Green	0.14	0.32	0.32	0.09	0.28	0.28	0.08	0.29	0.29	0.16	0.37	0.37
Sat Flow, veh/h	3191	4715	1468	3191	4715	1468	3191	4715	1468	3191	4715	1468
Grp Volume(v), veh/h	1050	951	862	672	2547	455	563	2470	333	1188	1201	1214
Grp Sat Flow(s),veh/h/ln	1596	1572	1468	1596	1572	1468	1596	1572	1468	1596	1572	1468
Q Serve(g_s), s	17.0	20.5	30.3	11.0	33.0	22.8	10.0	35.0	24.9	19.0	26.0	44.0
Cycle Q Clear(g_c), s	17.0	20.5	30.3	11.0	33.0	22.8	10.0	35.0	24.9	19.0	26.0	44.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	452	1533	477	293	1297	404	266	1375	428	505	1729	538
V/C Ratio(X)	2.32	0.62	1.81	2.30	1.96	1.13	2.12	1.80	0.78	2.35	0.69	2.26
Avail Cap(c_a), veh/h	452	1533	477	293	1297	404	266	1375	428	505	1729	538
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	51.5	34.2	24.5	54.5	43.5	20.7	55.0	42.5	38.9	50.5	32.3	38.0
Incr Delay (d2), s/veh	602.0	0.8	371.2	594.4	436.7	84.0	515.2	361.1	13.0	614.1	2.3	570.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	45.3	9.0	61.4	29.0	66.7	18.6	23.4	61.1	11.6	51.5	11.6	103.1
LnGrp Delay(d),s/veh	653.5	35.0	395.7	648.9	480.2	104.7	570.2	403.6	51.9	664.6	34.6	608.7
LnGrp LOS	F	D	F	F	F	F	F	F	D	F	C	F
Approach Vol, veh/h		2863			3674			3366			3603	
Approach Delay, s/veh		370.4			464.5			396.7			435.8	
Approach LOS		F			F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	23.0	39.0	15.0	43.0	14.0	48.0	21.0	37.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	19.0	35.0	11.0	39.0	10.0	44.0	17.0	33.0
Max Q Clear Time (g_c+I1), s	12.1	37.0	13.0	32.3	12.0	46.0	19.0	35.0
Green Ext Time (p_c), s	0.0	0.0	0.0	5.8	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	420.0
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	178	1409	994	368	1478	86	813	123	202	38	480	178
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	193	1532	1080	400	1607	93	619	505	220	41	522	193
Adj No. of Lanes	1	2	1	1	3	0	1	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	128	985	440	219	1622	94	329	495	216	0	227	84
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00
Prop Arrive On Green	0.08	0.30	0.30	0.13	0.36	0.36	0.07	0.14	0.14	0.00	0.19	0.19
Ln Grp Delay, s/veh	274.0	282.2	664.9	427.0	53.5	63.4	443.1	0.0	64.8	0.0	0.0	629.7
Ln Grp LOS	F	F	F	F	D	E	F		F			F
Approach Vol, veh/h		2805			2100			1344			715	
Approach Delay, s/veh		429.0			127.4			239.0			629.7	
Approach LOS		F			F			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	4	3	5	6	8	7
Case No	0.0	4.0	3.0	2.0	2.0	4.0	4.0	2.0
Phs Duration (G+Y+Rc), s	0.0	43.0	31.0	16.0	22.0	21.0	36.0	11.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	4.0	31.0	27.0	12.0	18.0	17.0	32.0	7.0
Max Allow Headway (MAH), s	0.0	4.1	4.2	4.1	4.1	4.1	4.0	4.1
Max Q Clear (g_c+I1), s	0.0	41.0	29.0	14.0	20.0	19.0	33.6	9.0
Green Ext Time (g_e), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prob of Phs Call (p_c)	0.00	1.00	1.00	1.00	1.00	1.00	1.00	0.99
Prob of Max Out (p_x)	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt	1			3	5			7
Mvmt Sat Flow, veh/h	0			1645	1645			1645

Through Movement Data								
Assigned Mvmt		2	4			6	8	
Mvmt Sat Flow, veh/h		1142	3282			1204	4561	

Right-Turn Movement Data								
Assigned Mvmt		12	14			16	18	
Mvmt Sat Flow, veh/h		497	1468			445	264	

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	5	0	0	7
Lane Assignment				(Prot)	(Prot)			(Prot)
Lanes in Grp	0	0	0	1	1	0	0	1

Grp Vol (v), veh/h	0	0	0	400	619	0	0	193
Grp Sat Flow (s), veh/h/ln	0	0	0	1645	1645	0	0	1645
Q Serve Time (g_s), s	0.0	0.0	0.0	12.0	18.0	0.0	0.0	7.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	12.0	18.0	0.0	0.0	7.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	0	0	219	329	0	0	128
V/C Ratio (X)	0.00	0.00	0.00	1.82	1.88	0.00	0.00	1.51
Avail Cap (c_a), veh/h	0	0	0	219	329	0	0	128
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.38	0.00	0.00	0.09
Uniform Delay (d1), s/veh	0.0	0.0	0.0	39.0	42.0	0.0	0.0	41.5
Incr Delay (d2), s/veh	0.0	0.0	0.0	388.0	401.1	0.0	0.0	232.5
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	427.0	443.1	0.0	0.0	274.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	5.4	8.2	0.0	0.0	3.2
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	23.6	36.7	0.0	0.0	8.3
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	29.1	44.8	0.0	0.0	11.4
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	2.37	3.84	0.00	0.00	2.08
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	45.2	72.5	0.0	0.0	16.3
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.5	0.5	0.0	0.0	0.4

Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	0	6	8	0
Lane Assignment			T				T	
Lanes in Grp	0	0	2	0	0	0	2	0
Grp Vol (v), veh/h	0	0	1532	0	0	0	1107	0
Grp Sat Flow (s), veh/h/ln	0	0	1641	0	0	0	1572	0
Q Serve Time (g_s), s	0.0	0.0	27.0	0.0	0.0	0.0	31.5	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	27.0	0.0	0.0	0.0	31.5	0.0
Lane Grp Cap (c), veh/h	0	0	985	0	0	0	1118	0
V/C Ratio (X)	0.00	0.00	1.56	0.00	0.00	0.00	0.99	0.00
Avail Cap (c_a), veh/h	0	0	985	0	0	0	1118	0
Upstream Filter (I)	0.00	0.00	0.09	0.00	0.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	31.5	0.0	0.0	0.0	28.9	0.0
Incr Delay (d2), s/veh	0.0	0.0	250.7	0.0	0.0	0.0	24.6	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	282.2	0.0	0.0	0.0	53.5	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	12.2	0.0	0.0	0.0	13.7	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	34.3	0.0	0.0	0.0	3.8	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	46.4	0.0	0.0	0.0	17.5	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.09	0.00	0.00	0.00	0.87	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	136.9	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data

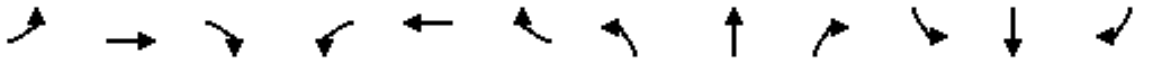
Assigned Mvmt	0	12	14	0	0	16	18	0
Lane Assignment		T+R	R			T+R	T+R	
Lanes in Grp	0	1	1	0	0	1	1	0
Grp Vol (v), veh/h	0	725	1080	0	0	715	593	0
Grp Sat Flow (s), veh/h/ln	0	1639	1468	0	0	1649	1681	0
Q Serve Time (g_s), s	0.0	39.0	15.9	0.0	0.0	17.0	31.6	0.0
Cycle Q Clear Time (g_c), s	0.0	39.0	15.9	0.0	0.0	17.0	31.6	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.30	1.00	0.00	0.00	0.27	0.16	0.00
Lane Grp Cap (c), veh/h	0	710	440	0	0	311	598	0
V/C Ratio (X)	0.00	1.02	2.45	0.00	0.00	2.30	0.99	0.00
Avail Cap (c_a), veh/h	0	710	440	0	0	311	598	0
Upstream Filter (I)	0.00	0.38	0.09	0.00	0.00	1.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	38.6	10.9	0.0	0.0	36.5	28.9	0.0
Incr Delay (d2), s/veh	0.0	26.2	654.0	0.0	0.0	593.2	34.6	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	64.8	664.9	0.0	0.0	629.7	63.4	0.0
1st-Term Q (Q1), veh/ln	0.0	17.7	6.4	0.0	0.0	7.7	14.6	0.0
2nd-Term Q (Q2), veh/ln	0.0	5.2	80.0	0.0	0.0	51.3	5.7	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	22.9	86.4	0.0	0.0	59.0	20.4	0.0
%ile Storage Ratio (RQ%)	0.00	1.43	18.36	0.00	0.00	1.03	1.01	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	3.6	159.9	0.0	0.0	100.9	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.3	0.6	0.0	0.0	0.6	0.0	0.0

Intersection Summary

HCM 2010 Ctrl Delay	322.0
HCM 2010 LOS	F

Notes

User approved volume balancing among the lanes for turning movement.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	178	1409	994	368	1478	86	813	123	202	38	480	178
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	193	1532	1080	400	1607	93	619	505	220	41	522	193
Adj No. of Lanes	1	2	1	1	3	0	1	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	128	985	440	219	1622	94	329	495	216	0	227	84
Arrive On Green	0.08	0.30	0.30	0.13	0.36	0.36	0.07	0.14	0.14	0.00	0.19	0.19
Sat Flow, veh/h	1645	3282	1468	1645	4561	264	1645	1142	497	0	1204	445
Grp Volume(v), veh/h	193	1532	1080	400	1107	593	619	0	725	0	0	715
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1645	1572	1681	1645	0	1639	0	0	1649
Q Serve(g_s), s	7.0	27.0	15.9	12.0	31.5	31.6	18.0	0.0	39.0	0.0	0.0	17.0
Cycle Q Clear(g_c), s	7.0	27.0	15.9	12.0	31.5	31.6	18.0	0.0	39.0	0.0	0.0	17.0
Prop In Lane	1.00		1.00	1.00		0.16	1.00		0.30	0.00		0.27
Lane Grp Cap(c), veh/h	128	985	440	219	1118	598	329	0	710	0	0	311
V/C Ratio(X)	1.51	1.56	2.45	1.82	0.99	0.99	1.88	0.00	1.02	0.00	0.00	2.30
Avail Cap(c_a), veh/h	128	985	440	219	1118	598	329	0	710	0	0	311
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00
Upstream Filter(I)	0.09	0.09	0.09	1.00	1.00	1.00	0.38	0.00	0.38	0.00	0.00	1.00
Uniform Delay (d), s/veh	41.5	31.5	10.9	39.0	28.9	28.9	42.0	0.0	38.6	0.0	0.0	36.5
Incr Delay (d2), s/veh	232.5	250.7	654.0	388.0	24.6	34.6	401.1	0.0	26.2	0.0	0.0	593.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	11.4	46.4	86.4	29.1	17.5	20.4	44.8	0.0	22.9	0.0	0.0	59.0
LnGrp Delay(d),s/veh	274.0	282.2	664.9	427.0	53.5	63.4	443.1	0.0	64.8	0.0	0.0	629.7
LnGrp LOS	F	F	F	F	D	E	F		F			F
Approach Vol, veh/h		2805			2100			1344			715	
Approach Delay, s/veh		429.0			127.4			239.0			629.7	
Approach LOS		F			F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	0.0	43.0	16.0	31.0	22.0	21.0	11.0	36.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax),4s	0	31.0	12.0	27.0	18.0	17.0	7.0	32.0
Max Q Clear Time (g_c+I1),0s	0	41.0	14.0	29.0	20.0	19.0	9.0	33.6
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary		
HCM 2010 Ctrl Delay	322.0	
HCM 2010 LOS	F	

Notes

User approved volume balancing among the lanes for turning movement.



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Volume (veh/h)	641	625	328	390	1310	331
Number	3	18	2	12	1	6
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	697	679	357	424	1424	360
Adj No. of Lanes	2	1	1	1	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Opposing Right Turn Influence	Yes				Yes	
Cap, veh/h	674	310	365	310	1418	1209
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.67	1.67
Prop Arrive On Green	0.21	0.21	0.21	0.21	0.74	1.00
Ln Grp Delay, s/veh	79.4	581.8	77.5	220.4	19.7	0.1
Ln Grp LOS	F	F	E	F	F	A
Approach Vol, veh/h	1376		781			1784
Approach Delay, s/veh	327.3		155.1			15.8
Approach LOS	F		F			B

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	8			6		
Case No	2.0	7.0	9.0			4.0		
Phs Duration (G+Y+Rc), s	44.0	23.0	23.0			67.0		
Change Period (Y+Rc), s	4.0	4.0	4.0			4.0		
Max Green (Gmax), s	40.0	19.0	19.0			63.0		
Max Allow Headway (MAH), s	4.1	4.1	4.2			4.1		
Max Q Clear (g_c+I1), s	42.0	21.0	21.0			2.0		
Green Ext Time (g_e), s	0.0	0.0	0.0			5.0		
Prob of Phs Call (p_c)	1.00	1.00	1.00			1.00		
Prob of Max Out (p_x)	1.00	1.00	1.00			0.00		

Left-Turn Movement Data								
Assigned Mvmt	1	5	3					
Mvmt Sat Flow, veh/h	3191	0	3191					

Through Movement Data								
Assigned Mvmt		2	8			6		
Mvmt Sat Flow, veh/h		1727	0			1727		

Right-Turn Movement Data								
Assigned Mvmt		12	18			16		
Mvmt Sat Flow, veh/h		1468	1468			0		

Left Lane Group Data								
Assigned Mvmt	1	5	3	0	0	0	0	0
Lane Assignment	(Prot)							
Lanes in Grp	2	0	2	0	0	0	0	0

Grp Vol (v), veh/h	1424	0	697	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	1596	0	1596	0	0	0	0	0
Q Serve Time (g_s), s	40.0	0.0	19.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	40.0	0.0	19.0	0.0	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	1596	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	19.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	1418	0	674	0	0	0	0	0
V/C Ratio (X)	1.00	0.00	1.03	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	1418	0	674	0	0	0	0	0
Upstream Filter (I)	0.09	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	11.6	0.0	35.5	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	8.1	0.0	43.9	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	19.7	0.0	79.4	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	16.7	0.0	8.3	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	1.6	0.0	4.1	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00
%ile Back of Q (50%), veh/ln	18.3	0.0	12.4	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	1.51	0.00	1.60	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	1.4	0.0	5.8	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	8	0	0	6	0	0
Lane Assignment		T				T		
Lanes in Grp	0	1	0	0	0	1	0	0
Grp Vol (v), veh/h	0	357	0	0	0	360	0	0
Grp Sat Flow (s), veh/h/ln	0	1727	0	0	0	1727	0	0
Q Serve Time (g_s), s	0.0	18.5	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	18.5	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	365	0	0	0	1209	0	0
V/C Ratio (X)	0.00	0.98	0.00	0.00	0.00	0.30	0.00	0.00
Avail Cap (c_a), veh/h	0	365	0	0	0	1209	0	0
Upstream Filter (I)	0.00	1.00	0.00	0.00	0.00	0.09	0.00	0.00
Uniform Delay (d1), s/veh	0.0	35.3	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	42.2	0.0	0.0	0.0	0.1	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	77.5	0.0	0.0	0.0	0.1	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	8.8	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	13.1	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.78	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	18	0	0	16	0	0
Lane Assignment		R	R					
Lanes in Grp	0	1	1	0	0	0	0	0
Grp Vol (v), veh/h	0	424	679	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	1468	1468	0	0	0	0	0
Q Serve Time (g_s), s	0.0	19.0	19.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	19.0	19.0	0.0	0.0	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	310	310	0	0	0	0	0
V/C Ratio (X)	0.00	1.37	2.19	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	310	310	0	0	0	0	0
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	35.5	35.5	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	184.9	546.3	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	220.4	581.8	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	7.7	7.7	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	15.9	47.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	23.6	54.7	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	7.96	0.03	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	28.5	92.3	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.3	0.5	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	152.1
HCM 2010 LOS	F



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Volume (veh/h)	641	625	328	390	1310	331
Number	3	18	2	12	1	6
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	697	679	357	424	1424	360
Adj No. of Lanes	2	1	1	1	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Cap, veh/h	674	310	365	310	1418	1209
Arrive On Green	0.21	0.21	0.21	0.21	0.74	1.00
Sat Flow, veh/h	3191	1468	1727	1468	3191	1727
Grp Volume(v), veh/h	697	679	357	424	1424	360
Grp Sat Flow(s),veh/h/ln	1596	1468	1727	1468	1596	1727
Q Serve(g_s), s	19.0	19.0	18.5	19.0	40.0	0.0
Cycle Q Clear(g_c), s	19.0	19.0	18.5	19.0	40.0	0.0
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	674	310	365	310	1418	1209
V/C Ratio(X)	1.03	2.19	0.98	1.37	1.00	0.30
Avail Cap(c_a), veh/h	674	310	365	310	1418	1209
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.67	1.67
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.09	0.09
Uniform Delay (d), s/veh	35.5	35.5	35.3	35.5	11.6	0.0
Incr Delay (d2), s/veh	43.9	546.3	42.2	184.9	8.1	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	12.4	54.7	13.1	23.6	18.3	0.0
LnGrp Delay(d),s/veh	79.4	581.8	77.5	220.4	19.7	0.1
LnGrp LOS	F	F	E	F	F	A
Approach Vol, veh/h	1376		781			1784
Approach Delay, s/veh	327.3		155.1			15.8
Approach LOS	F		F			B

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2				6		8
Phs Duration (G+Y+Rc), s	44.0	23.0				67.0		23.0
Change Period (Y+Rc), s	4.0	4.0				4.0		4.0
Max Green Setting (Gmax), s	40.0	19.0				63.0		19.0
Max Q Clear Time (g_c+I1), s	42.0	21.0				2.0		21.0
Green Ext Time (p_c), s	0.0	0.0				5.0		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	152.1
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	141	217	125	51	321	88	77	446	29	75	283	138
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	153	236	136	55	349	96	84	485	32	82	308	150
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	182	262	151	232	371	102	105	519	34	169	399	194
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.11	0.25	0.25	0.14	0.28	0.28	0.06	0.32	0.32	0.10	0.36	0.36
Ln Grp Delay, s/veh	66.9	0.0	46.7	34.5	0.0	43.7	66.4	0.0	54.5	40.3	0.0	34.8
Ln Grp LOS	E		D	C		D	E		D	D		C
Approach Vol, veh/h		525			500			601			540	
Approach Delay, s/veh		52.5			42.7			56.2			35.7	
Approach LOS		D			D			E			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	5	6	7	8
Case No	4.0	2.0	4.0	2.0	2.0	4.0	2.0	4.0
Phs Duration (G+Y+Rc), s	33.2	13.3	26.9	16.7	9.7	36.7	14.0	29.6
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	32.0	6.0	31.0	5.0	7.0	31.0	10.0	26.0
Max Allow Headway (MAH), s	4.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Max Q Clear (g_c+I1), s	28.4	6.2	22.0	4.7	6.5	24.4	10.2	25.5
Green Ext Time (g_e), s	0.8	0.0	1.0	0.1	0.0	1.2	0.0	0.1
Prob of Phs Call (p_c)	1.00	0.87	1.00	0.75	0.88	1.00	0.98	1.00
Prob of Max Out (p_x)	1.00	1.00	0.10	1.00	1.00	0.41	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt		1		3	5		7	
Mvmt Sat Flow, veh/h		1645		1645	1645		1645	

Through Movement Data								
Assigned Mvmt	2		4			6		8
Mvmt Sat Flow, veh/h	1603		1029			1098		1305

Right-Turn Movement Data								
Assigned Mvmt	12		14			16		18
Mvmt Sat Flow, veh/h	106		593			535		359

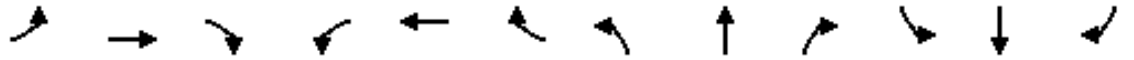
Left Lane Group Data								
Assigned Mvmt	0	1	0	3	5	0	7	0
Lane Assignment		(Prot)		(Prot)	(Prot)		(Prot)	
Lanes in Grp	0	1	0	1	1	0	1	0

Grp Vol (v), veh/h	0	82	0	55	84	0	153	0
Grp Sat Flow (s), veh/h/ln	0	1645	0	1645	1645	0	1645	0
Q Serve Time (g_s), s	0.0	4.2	0.0	2.7	4.5	0.0	8.2	0.0
Cycle Q Clear Time (g_c), s	0.0	4.2	0.0	2.7	4.5	0.0	8.2	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	169	0	232	105	0	182	0
V/C Ratio (X)	0.00	0.48	0.00	0.24	0.80	0.00	0.84	0.00
Avail Cap (c_a), veh/h	0	169	0	232	128	0	183	0
Upstream Filter (I)	0.00	1.00	0.00	0.34	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	38.1	0.0	34.4	41.6	0.0	39.2	0.0
Incr Delay (d2), s/veh	0.0	2.1	0.0	0.2	24.9	0.0	27.6	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	40.3	0.0	34.5	66.4	0.0	66.9	0.0
1st-Term Q (Q1), veh/ln	0.0	1.9	0.0	1.2	2.1	0.0	3.7	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.0	0.7	0.0	1.4	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	2.0	0.0	1.2	2.8	0.0	5.1	0.0
%ile Storage Ratio (RQ%)	0.00	0.01	0.00	0.01	0.01	0.00	0.05	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	0	6	0	8
Lane Assignment								
Lanes in Grp	0	0	0	0	0	0	0	0
Grp Vol (v), veh/h	0	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	0	16	0	18
Lane Assignment	T+R		T+R			T+R		T+R
Lanes in Grp	1	0	1	0	0	1	0	1
Grp Vol (v), veh/h	517	0	372	0	0	458	0	445
Grp Sat Flow (s), veh/h/ln	1709	0	1623	0	0	1633	0	1664
Q Serve Time (g_s), s	26.4	0.0	20.0	0.0	0.0	22.4	0.0	23.5
Cycle Q Clear Time (g_c), s	26.4	0.0	20.0	0.0	0.0	22.4	0.0	23.5
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.06	0.00	0.37	0.00	0.00	0.33	0.00	0.22
Lane Grp Cap (c), veh/h	553	0	413	0	0	593	0	474
V/C Ratio (X)	0.93	0.00	0.90	0.00	0.00	0.77	0.00	0.94
Avail Cap (c_a), veh/h	608	0	559	0	0	593	0	481
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	0.34
Uniform Delay (d1), s/veh	29.5	0.0	32.4	0.0	0.0	25.4	0.0	31.4
Incr Delay (d2), s/veh	25.0	0.0	14.2	0.0	0.0	9.5	0.0	12.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	54.5	0.0	46.7	0.0	0.0	34.8	0.0	43.7
1st-Term Q (Q1), veh/ln	12.4	0.0	8.9	0.0	0.0	10.1	0.0	10.8
2nd-Term Q (Q2), veh/ln	3.8	0.0	1.6	0.0	0.0	1.6	0.0	1.6
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	16.2	0.0	10.5	0.0	0.0	11.6	0.0	12.4
%ile Storage Ratio (RQ%)	0.04	0.00	0.11	0.00	0.00	0.03	0.00	0.07
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	47.1
HCM 2010 LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	141	217	125	51	321	88	77	446	29	75	283	138
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	153	236	136	55	349	96	84	485	32	82	308	150
Adj No. of Lanes	1	1	0	1	1	0	1	1	0	1	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	182	262	151	232	371	102	105	519	34	169	399	194
Arrive On Green	0.11	0.25	0.25	0.14	0.28	0.28	0.06	0.32	0.32	0.10	0.36	0.36
Sat Flow, veh/h	1645	1029	593	1645	1305	359	1645	1603	106	1645	1098	535
Grp Volume(v), veh/h	153	0	372	55	0	445	84	0	517	82	0	458
Grp Sat Flow(s),veh/h/ln	1645	0	1623	1645	0	1664	1645	0	1709	1645	0	1633
Q Serve(g_s), s	8.2	0.0	20.0	2.7	0.0	23.5	4.5	0.0	26.4	4.2	0.0	22.4
Cycle Q Clear(g_c), s	8.2	0.0	20.0	2.7	0.0	23.5	4.5	0.0	26.4	4.2	0.0	22.4
Prop In Lane	1.00		0.37	1.00		0.22	1.00		0.06	1.00		0.33
Lane Grp Cap(c), veh/h	182	0	413	232	0	474	105	0	553	169	0	593
V/C Ratio(X)	0.84	0.00	0.90	0.24	0.00	0.94	0.80	0.00	0.93	0.48	0.00	0.77
Avail Cap(c_a), veh/h	183	0	559	232	0	481	128	0	608	169	0	593
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	0.34	0.00	0.34	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	39.2	0.0	32.4	34.4	0.0	31.4	41.6	0.0	29.5	38.1	0.0	25.4
Incr Delay (d2), s/veh	27.6	0.0	14.2	0.2	0.0	12.3	24.9	0.0	25.0	2.1	0.0	9.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.1	0.0	10.5	1.2	0.0	12.4	2.8	0.0	16.2	2.0	0.0	11.6
LnGrp Delay(d),s/veh	66.9	0.0	46.7	34.5	0.0	43.7	66.4	0.0	54.5	40.3	0.0	34.8
LnGrp LOS	E		D	C		D	E		D	D		C
Approach Vol, veh/h		525			500			601			540	
Approach Delay, s/veh		52.5			42.7			56.2			35.7	
Approach LOS		D			D			E			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.3	33.2	16.7	26.9	9.7	36.7	14.0	29.6
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	6.0	32.0	5.0	31.0	7.0	31.0	10.0	26.0
Max Q Clear Time (g_c+I1), s	6.2	28.4	4.7	22.0	6.5	24.4	10.2	25.5
Green Ext Time (p_c), s	0.0	0.8	0.1	1.0	0.0	1.2	0.0	0.1

Intersection Summary	
HCM 2010 Ctrl Delay	47.1
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	128	916	21	19	551	519	5	236	38	459	183	62
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1900	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	139	996	23	21	599	564	5	257	41	499	199	67
Adj No. of Lanes	1	1	0	1	1	1	0	1	0	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	146	717	17	30	614	522	0	275	44	311	729	620
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.09	0.43	0.43	0.02	0.36	0.36	0.00	0.19	0.19	0.19	0.42	0.42
Ln Grp Delay, s/veh	87.1	0.0	206.6	69.8	58.7	72.2	0.0	0.0	42.1	310.5	17.1	7.6
Ln Grp LOS	F		F	E	E	F			D	F	B	A
Approach Vol, veh/h		1158			1184			298			765	
Approach Delay, s/veh		192.2			65.3			42.1			207.7	
Approach LOS		F			E			D			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	8	7
Case No	2.0	4.0	2.0	4.0	0.0	3.0	3.0	2.0
Phs Duration (G+Y+Rc), s	21.0	21.0	5.6	42.4	0.0	42.0	36.0	12.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	17.0	17.0	4.0	36.0	4.0	30.0	32.0	8.0
Max Allow Headway (MAH), s	4.1	4.1	4.1	4.0	0.0	4.1	4.2	4.0
Max Q Clear (g_c+I1), s	19.0	17.7	3.1	40.4	0.0	8.8	32.8	9.6
Green Ext Time (g_e), s	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0
Prob of Phs Call (p_c)	1.00	1.00	0.41	1.00	0.00	1.00	1.00	0.97
Prob of Max Out (p_x)	1.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt	1		3		5			7
Mvmt Sat Flow, veh/h	1645		1645		0			1645

Through Movement Data								
Assigned Mvmt		2		4		6	8	
Mvmt Sat Flow, veh/h		1454		1682		1727	1727	

Right-Turn Movement Data								
Assigned Mvmt		12		14		16	18	
Mvmt Sat Flow, veh/h		232		39		1468	1468	

Left Lane Group Data								
Assigned Mvmt	1	0	3	0	5	0	0	7
Lane Assignment	(Prot)		(Prot)					(Prot)
Lanes in Grp	1	0	1	0	0	0	0	1

Grp Vol (v), veh/h	499	0	21	0	0	0	0	139
Grp Sat Flow (s), veh/h/ln	1645	0	1645	0	0	0	0	1645
Q Serve Time (g_s), s	17.0	0.0	1.1	0.0	0.0	0.0	0.0	7.6
Cycle Q Clear Time (g_c), s	17.0	0.0	1.1	0.0	0.0	0.0	0.0	7.6
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	311	0	30	0	0	0	0	146
V/C Ratio (X)	1.61	0.00	0.70	0.00	0.00	0.00	0.00	0.95
Avail Cap (c_a), veh/h	311	0	73	0	0	0	0	146
Upstream Filter (I)	0.09	0.00	1.00	0.00	0.00	0.00	0.00	0.65
Uniform Delay (d1), s/veh	36.5	0.0	43.9	0.0	0.0	0.0	0.0	40.8
Incr Delay (d2), s/veh	274.0	0.0	25.9	0.0	0.0	0.0	0.0	46.2
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	310.5	0.0	69.8	0.0	0.0	0.0	0.0	87.1
1st-Term Q (Q1), veh/ln	7.7	0.0	0.5	0.0	0.0	0.0	0.0	3.4
2nd-Term Q (Q2), veh/ln	23.7	0.0	0.2	0.0	0.0	0.0	0.0	1.9
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	31.3	0.0	0.7	0.0	0.0	0.0	0.0	5.3
%ile Storage Ratio (RQ%)	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.03
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	47.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	8	0
Lane Assignment						T	T	
Lanes in Grp	0	0	0	0	0	1	1	0
Grp Vol (v), veh/h	0	0	0	0	0	199	599	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	1727	1727	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	6.8	30.8	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	6.8	30.8	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	729	614	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.27	0.98	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	729	614	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.09	1.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	17.0	28.6	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.1	30.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	17.1	58.7	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	3.2	14.6	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	5.1	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	3.2	19.8	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	18	0
Lane Assignment		T+R		T+R		R	R	
Lanes in Grp	0	1	0	1	0	1	1	0
Grp Vol (v), veh/h	0	298	0	1019	0	67	564	0
Grp Sat Flow (s), veh/h/ln	0	1686	0	1720	0	1468	1468	0
Q Serve Time (g_s), s	0.0	15.7	0.0	38.4	0.0	1.7	18.2	0.0
Cycle Q Clear Time (g_c), s	0.0	15.7	0.0	38.4	0.0	1.7	18.2	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.14	0.00	0.02	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	319	0	733	0	620	522	0
V/C Ratio (X)	0.00	0.94	0.00	1.39	0.00	0.11	1.08	0.00
Avail Cap (c_a), veh/h	0	319	0	733	0	620	522	0
Upstream Filter (I)	0.00	0.09	0.00	0.65	0.00	0.09	1.00	0.00
Uniform Delay (d1), s/veh	0.0	36.0	0.0	25.8	0.0	7.5	9.4	0.0
Incr Delay (d2), s/veh	0.0	6.1	0.0	180.8	0.0	0.0	62.9	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	42.1	0.0	206.6	0.0	7.6	72.2	0.0
1st-Term Q (Q1), veh/ln	0.0	7.3	0.0	18.1	0.0	0.7	7.3	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.5	0.0	36.8	0.0	0.0	9.1	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	7.8	0.0	55.0	0.0	0.7	16.4	0.0
%ile Storage Ratio (RQ%)	0.00	0.02	0.00	0.29	0.00	0.00	0.02	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	71.4	0.0	0.0	10.5	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.0	0.0	0.3	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	138.4
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	128	916	21	19	551	519	5	236	38	459	183	62
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1727	1900	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	139	996	23	21	599	564	5	257	41	499	199	67
Adj No. of Lanes	1	1	0	1	1	1	0	1	0	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	146	717	17	30	614	522	0	275	44	311	729	620
Arrive On Green	0.09	0.43	0.43	0.02	0.36	0.36	0.00	0.19	0.19	0.19	0.42	0.42
Sat Flow, veh/h	1645	1682	39	1645	1727	1468	0	1454	232	1645	1727	1468
Grp Volume(v), veh/h	139	0	1019	21	599	564	0	0	298	499	199	67
Grp Sat Flow(s),veh/h/ln	1645	0	1720	1645	1727	1468	0	0	1686	1645	1727	1468
Q Serve(g_s), s	7.6	0.0	38.4	1.1	30.8	18.2	0.0	0.0	15.7	17.0	6.8	1.7
Cycle Q Clear(g_c), s	7.6	0.0	38.4	1.1	30.8	18.2	0.0	0.0	15.7	17.0	6.8	1.7
Prop In Lane	1.00		0.02	1.00		1.00	0.00		0.14	1.00		1.00
Lane Grp Cap(c), veh/h	146	0	733	30	614	522	0	0	319	311	729	620
V/C Ratio(X)	0.95	0.00	1.39	0.70	0.98	1.08	0.00	0.00	0.94	1.61	0.27	0.11
Avail Cap(c_a), veh/h	146	0	733	73	614	522	0	0	319	311	729	620
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.65	0.00	0.65	1.00	1.00	1.00	0.00	0.00	0.09	0.09	0.09	0.09
Uniform Delay (d), s/veh	40.8	0.0	25.8	43.9	28.6	9.4	0.0	0.0	36.0	36.5	17.0	7.5
Incr Delay (d2), s/veh	46.2	0.0	180.8	25.9	30.1	62.9	0.0	0.0	6.1	274.0	0.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.3	0.0	55.0	0.7	19.8	16.4	0.0	0.0	7.8	31.3	3.2	0.7
LnGrp Delay(d),s/veh	87.1	0.0	206.6	69.8	58.7	72.2	0.0	0.0	42.1	310.5	17.1	7.6
LnGrp LOS	F		F	E	E	F			D	F	B	A
Approach Vol, veh/h		1158			1184			298			765	
Approach Delay, s/veh		192.2			65.3			42.1			207.7	
Approach LOS		F			E			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	21.0	21.0	5.6	42.4	0.0	42.0	12.0	36.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	17.0	17.0	4.0	36.0	4.0	30.0	8.0	32.0
Max Q Clear Time (g_c+I1), s	19.0	17.7	3.1	40.4	0.0	8.8	9.6	32.8
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	138.4
HCM 2010 LOS	F

Intersection	
Int Delay, s/veh	132.4

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	65	1646	797	165	98	19
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	71	1789	866	179	107	21

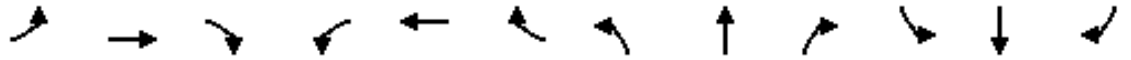
Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	1046	0	-	0	2886	956
Stage 1	-	-	-	-	956	-
Stage 2	-	-	-	-	1930	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	635	-	-	-	~ 17	302
Stage 1	-	-	-	-	361	-
Stage 2	-	-	-	-	118	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	635	-	-	-	~ 15	302
Mov Cap-2 Maneuver	-	-	-	-	~ 15	-
Stage 1	-	-	-	-	361	-
Stage 2	-	-	-	-	~ 105	-

Approach	EB	WB	SB
HCM Control Delay, s	0.4	0	$ 3150.2
HCM LOS			F

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	635	-	-	-	18
HCM Lane V/C Ratio	0.111	-	-	-	7.065
HCM Control Delay (s)	11.4	-	-	$	3150.2
HCM Lane LOS	B	-	-	-	F
HCM 95th %tile Q(veh)	0.4	-	-	-	16.5

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	184	1182	28	15	475	92	20	67	9	88	80	80
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1727	1900	1727	1727	1727	1900	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	200	1285	30	16	516	100	22	73	10	96	87	87
Adj No. of Lanes	0	1	0	1	1	1	0	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	0	785	18	24	908	772	0	107	15	0	105	105
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.00	0.47	0.47	0.01	0.53	0.53	0.21	0.07	0.07	0.27	0.13	0.13
Ln Grp Delay, s/veh	0.0	0.0	316.7	69.7	15.2	0.7	0.0	0.0	67.8	0.0	0.0	67.4
Ln Grp LOS			F	E	B	A			E			E
Approach Vol, veh/h		1315			632			83			174	
Approach Delay, s/veh		316.7			14.3			67.8			67.4	
Approach LOS		F			B			E			E	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	6	5	7	8
Case No	4.0	0.0	2.0	4.0	4.0	0.0	0.0	3.0
Phs Duration (G+Y+Rc), s	10.5	28.2	5.3	46.0	15.9	22.8	0.0	51.3
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	18.0	7.0	7.0	42.0	18.0	7.0	7.0	42.0
Max Allow Headway (MAH), s	4.1	0.0	4.1	4.0	4.2	0.0	0.0	4.0
Max Q Clear (g_c+I1), s	6.3	0.0	2.9	44.0	11.6	0.0	0.0	20.2
Green Ext Time (g_e), s	0.1	0.0	0.0	0.0	0.3	0.0	0.0	11.7
Prob of Phs Call (p_c)	1.00	0.00	0.33	1.00	1.00	0.00	0.00	1.00
Prob of Max Out (p_x)	0.00	0.00	0.97	1.00	0.20	0.00	0.00	0.44

Left-Turn Movement Data								
Assigned Mvmt		1	3			5	7	
Mvmt Sat Flow, veh/h		0	1645			0	0	

Through Movement Data								
Assigned Mvmt	2			4	6			8
Mvmt Sat Flow, veh/h	1488			1681	794			1727

Right-Turn Movement Data								
Assigned Mvmt	12			14	16			18
Mvmt Sat Flow, veh/h	204			39	794			1468

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	0	5	7	0
Lane Assignment			(Prot)					
Lanes in Grp	0	0	1	0	0	0	0	0

Grp Vol (v), veh/h	0	0	16	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	1645	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	0	24	0	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.66	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	128	0	0	0	0	0
Upstream Filter (I)	0.00	0.00	0.94	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	44.1	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	25.5	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	69.7	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	6	0	0	8
Lane Assignment								T
Lanes in Grp	0	0	0	0	0	0	0	1
Grp Vol (v), veh/h	0	0	0	0	0	0	0	516
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	1727
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.2
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.2
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	908
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	908
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.94
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.4
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.2
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	0	14	16	0	0	18
Lane Assignment	T+R			T+R	T+R			R
Lanes in Grp	1	0	0	1	1	0	0	1
Grp Vol (v), veh/h	83	0	0	1315	174	0	0	100
Grp Sat Flow (s), veh/h/ln	1691	0	0	1720	1587	0	0	1468
Q Serve Time (g_s), s	4.3	0.0	0.0	42.0	9.6	0.0	0.0	0.8
Cycle Q Clear Time (g_c), s	4.3	0.0	0.0	42.0	9.6	0.0	0.0	0.8
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.12	0.00	0.00	0.02	0.50	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	121	0	0	803	210	0	0	772
V/C Ratio (X)	0.68	0.00	0.00	1.64	0.83	0.00	0.00	0.13
Avail Cap (c_a), veh/h	338	0	0	803	317	0	0	772
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.97	0.00	0.00	0.94
Uniform Delay (d1), s/veh	40.8	0.0	0.0	24.0	38.1	0.0	0.0	0.7
Incr Delay (d2), s/veh	27.1	0.0	0.0	292.7	29.3	0.0	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	67.8	0.0	0.0	316.7	67.4	0.0	0.0	0.7
1st-Term Q (Q1), veh/ln	2.0	0.0	0.0	19.8	4.2	0.0	0.0	0.3
2nd-Term Q (Q2), veh/ln	0.9	0.0	0.0	65.3	1.7	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	2.9	0.0	0.0	85.1	5.9	0.0	0.0	0.3
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.44	0.02	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	128.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	200.9
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	184	1182	28	15	475	92	20	67	9	88	80	80
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1727	1900	1727	1727	1727	1900	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	200	1285	30	16	516	100	22	73	10	96	87	87
Adj No. of Lanes	0	1	0	1	1	1	0	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	0	785	18	24	908	772	0	107	15	0	105	105
Arrive On Green	0.00	0.47	0.47	0.01	0.53	0.53	0.21	0.07	0.07	0.27	0.13	0.13
Sat Flow, veh/h	0	1681	39	1645	1727	1468	0	1488	204	0	794	794
Grp Volume(v), veh/h	0	0	1315	16	516	100	0	0	83	0	0	174
Grp Sat Flow(s),veh/h/ln	0	0	1720	1645	1727	1468	0	0	1691	0	0	1587
Q Serve(g_s), s	0.0	0.0	42.0	0.9	18.2	0.8	0.0	0.0	4.3	0.0	0.0	9.6
Cycle Q Clear(g_c), s	0.0	0.0	42.0	0.9	18.2	0.8	0.0	0.0	4.3	0.0	0.0	9.6
Prop In Lane	0.00		0.02	1.00		1.00	0.00		0.12	0.00		0.50
Lane Grp Cap(c), veh/h	0	0	803	24	908	772	0	0	121	0	0	210
V/C Ratio(X)	0.00	0.00	1.64	0.66	0.57	0.13	0.00	0.00	0.68	0.00	0.00	0.83
Avail Cap(c_a), veh/h	0	0	803	128	908	772	0	0	338	0	0	317
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.00	1.00	0.94	0.94	0.94	0.00	0.00	1.00	0.00	0.00	0.97
Uniform Delay (d), s/veh	0.0	0.0	24.0	44.1	14.4	0.7	0.0	0.0	40.8	0.0	0.0	38.1
Incr Delay (d2), s/veh	0.0	0.0	292.7	25.5	0.8	0.1	0.0	0.0	27.1	0.0	0.0	29.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.0	85.1	0.6	8.8	0.3	0.0	0.0	2.9	0.0	0.0	5.9
LnGrp Delay(d),s/veh	0.0	0.0	316.7	69.7	15.2	0.7	0.0	0.0	67.8	0.0	0.0	67.4
LnGrp LOS			F	E	B	A			E			E
Approach Vol, veh/h		1315			632			83			174	
Approach Delay, s/veh		316.7			14.3			67.8			67.4	
Approach LOS		F			B			E			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	28.2	10.5	5.3	46.0	22.8	15.9	0.0	51.3
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	7.0	18.0	7.0	42.0	7.0	18.0	7.0	42.0
Max Q Clear Time (g_c+I1), s	0.0	6.3	2.9	44.0	0.0	11.6	0.0	20.2
Green Ext Time (p_c), s	0.0	0.1	0.0	0.0	0.0	0.3	0.0	11.7

Intersection Summary	
HCM 2010 Ctrl Delay	200.9
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NWL	NWR	NWR2	SWL2	SWL	SWR
Lane Configurations												
Volume (veh/h)	0	836	97	62	438	22	0	0	0	0	0	0
Number	7	4	14	3	8	18	5	12	12	1	1	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	909	105	67	476	24	0	0	0	0	0	0
Adj No. of Lanes	1	1	0	1	1	0	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes	Yes	
Cap, veh/h	5	1059	122	92	1428	72	5	0	0	5	5	5
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.00	0.70	0.70	0.06	0.88	0.88	0.00	0.00	0.00	0.00	0.00	0.00
Ln Grp Delay, s/veh	0.0	0.0	5.6	25.4	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
Ln Grp LOS			A	C		A						
Approach Vol, veh/h		1014			567		0			0	0	
Approach Delay, s/veh		5.6			3.4		0.0			0.0	0.0	
Approach LOS		A			A							

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1		4	3	5	6	7	8
Case No	2.0		4.0	2.0	2.0	3.0	2.0	4.0
Phs Duration (G+Y+Rc), s	0.0		26.5	5.8	0.0	0.0	0.0	32.3
Change Period (Y+Rc), s	4.0		4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	4.0		62.0	5.0	4.0	17.0	4.0	63.0
Max Allow Headway (MAH), s	0.0		4.1	4.0	0.0	0.0	0.0	4.0
Max Q Clear (g_c+I1), s	0.0		16.6	3.3	0.0	0.0	0.0	3.6
Green Ext Time (g_e), s	0.0		5.9	0.4	0.0	0.0	0.0	2.2
Prob of Phs Call (p_c)	0.00		1.00	0.45	0.00	0.00	0.00	1.00
Prob of Max Out (p_x)	0.00		0.00	1.00	0.00	0.00	0.00	0.00

Left-Turn Movement Data								
Assigned Mvmt	1			3	5		7	
Mvmt Sat Flow, veh/h	1645			1645	1645		1645	

Through Movement Data								
Assigned Mvmt			4			6		8
Mvmt Sat Flow, veh/h			1521			1727		1631

Right-Turn Movement Data								
Assigned Mvmt			14			16		18
Mvmt Sat Flow, veh/h			176			1468		82

Left Lane Group Data								
Assigned Mvmt	1	0	0	3	5	0	7	0
Lane Assignment	(Prot)			(Prot)	(Prot)		(Prot)	
Lanes in Grp	1	0	0	1	1	0	1	0

Grp Vol (v), veh/h	0	0	0	67	0	0	0	0
Grp Sat Flow (s), veh/h/ln	1645	0	0	1645	1645	0	1645	0
Q Serve Time (g_s), s	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	5	0	0	92	5	0	5	0
V/C Ratio (X)	0.00	0.00	0.00	0.73	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	204	0	0	255	204	0	204	0
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	10.4	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	25.4	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	0	4	0	0	6	0	8
Lane Assignment						T		
Lanes in Grp	0	0	0	0	0	1	0	0
Grp Vol (v), veh/h	0	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	1727	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	5	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	910	0	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	0	14	0	0	16	0	18
Lane Assignment			T+R			R		T+R
Lanes in Grp	0	0	1	0	0	1	0	1
Grp Vol (v), veh/h	0	0	1014	0	0	0	0	500
Grp Sat Flow (s), veh/h/ln	0	0	1696	0	0	1468	0	1713
Q Serve Time (g_s), s	0.0	0.0	14.6	0.0	0.0	0.0	0.0	1.6
Cycle Q Clear Time (g_c), s	0.0	0.0	14.6	0.0	0.0	0.0	0.0	1.6
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.00	0.10	0.00	0.00	1.00	0.00	0.05
Lane Grp Cap (c), veh/h	0	0	1181	0	0	5	0	1500
V/C Ratio (X)	0.00	0.00	0.86	0.00	0.00	0.00	0.00	0.33
Avail Cap (c_a), veh/h	0	0	3259	0	0	773	0	3343
Upstream Filter (I)	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.4
Incr Delay (d2), s/veh	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	5.6	0.0	0.0	0.0	0.0	0.5
1st-Term Q (Q1), veh/ln	0.0	0.0	6.5	0.0	0.0	0.0	0.0	0.7
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	7.1	0.0	0.0	0.0	0.0	0.7
%ile Storage Ratio (RQ%)	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	4.8
HCM 2010 LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NWL	NWR	NWR2	SWL2	SWL	SWR
Lane Configurations												
Volume (veh/h)	0	836	97	62	438	22	0	0	0	0	0	0
Number	7	4	14	3	8	18	5	12	12	1	1	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1900	1727	1727	1900	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	0	909	105	67	476	24	0	0	0	0	0	0
Adj No. of Lanes	1	1	0	1	1	0	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	5	1059	122	92	1428	72	5	0	0	5	5	5
Arrive On Green	0.00	0.70	0.70	0.06	0.88	0.88	0.00	0.00	0.00	0.00	0.00	0.00
Sat Flow, veh/h	1645	1521	176	1645	1631	82	1645			1645	1645	1468
Grp Volume(v), veh/h	0	0	1014	67	0	500	0			0	0	0
Grp Sat Flow(s),veh/h/ln	1645	0	1696	1645	0	1713	1645			1645	1645	1468
Q Serve(g_s), s	0.0	0.0	14.6	1.3	0.0	1.6	0.0			0.0	0.0	0.0
Cycle Q Clear(g_c), s	0.0	0.0	14.6	1.3	0.0	1.6	0.0			0.0	0.0	0.0
Prop In Lane	1.00		0.10	1.00		0.05	1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	5	0	1181	92	0	1500	5			5	5	5
V/C Ratio(X)	0.00	0.00	0.86	0.73	0.00	0.33	0.00			0.00	0.00	0.00
Avail Cap(c_a), veh/h	204	0	3259	255	0	3343	204			204	204	773
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00			1.00	1.00	1.00
Upstream Filter(I)	0.00	0.00	1.00	1.00	0.00	1.00	0.00			0.00	0.00	0.00
Uniform Delay (d), s/veh	0.0	0.0	3.7	15.0	0.0	0.4	0.0			0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	1.9	10.4	0.0	0.1	0.0			0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.0	7.1	0.8	0.0	0.7	0.0			0.0	0.0	0.0
LnGrp Delay(d),s/veh	0.0	0.0	5.6	25.4	0.0	0.5	0.0			0.0	0.0	0.0
LnGrp LOS			A	C		A						
Approach Vol, veh/h		1014			567		0			0	0	
Approach Delay, s/veh		5.6			3.4		0.0			0.0	0.0	
Approach LOS		A			A							

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1		3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	0.0		5.8	26.5	0.0	0.0	0.0	32.3
Change Period (Y+Rc), s	4.0		4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax),4s	0		5.0	62.0	4.0	17.0	4.0	63.0
Max Q Clear Time (g_c+I1),0s	0		3.3	16.6	0.0	0.0	0.0	3.6
Green Ext Time (p_c), s	0.0		0.4	5.9	0.0	0.0	0.0	2.2

Intersection Summary	
HCM 2010 Ctrl Delay	4.8
HCM 2010 LOS	A

Intersection	
Intersection Delay, s/veh	17.2
Intersection LOS	C

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Vol, veh/h	0	14	130	0	0	51	51	16	0	0	264	271	0	16	61	14
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	0	15	141	0	0	55	55	17	0	0	287	295	0	17	66	15
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	11.3	10.9	21.5	9.8
HCM LOS	B	B	C	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	10%	43%	18%
Vol Thru, %	49%	90%	43%	67%
Vol Right, %	51%	0%	14%	15%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	535	144	118	91
LT Vol	0	14	51	16
Through Vol	264	130	51	61
RT Vol	271	0	16	14
Lane Flow Rate	582	157	128	99
Geometry Grp	1	1	1	1
Degree of Util (X)	0.761	0.265	0.219	0.157
Departure Headway (Hd)	4.846	6.089	6.135	5.726
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	750	592	587	626
Service Time	2.846	4.105	4.153	3.76
HCM Lane V/C Ratio	0.776	0.265	0.218	0.158
HCM Control Delay	21.5	11.3	10.9	9.8
HCM Lane LOS	C	B	B	A
HCM 95th-tile Q	7.2	1.1	0.8	0.6

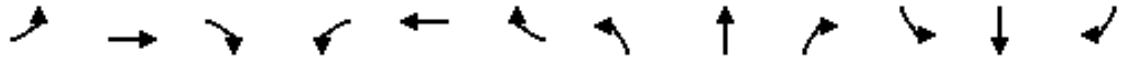
Intersection	
Int Delay, s/veh	0.9

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Vol, veh/h	25	355	123	38	16	8
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	27	386	134	41	17	9

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	175	0	-	0	594	154
Stage 1	-	-	-	-	154	-
Stage 2	-	-	-	-	440	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1354	-	-	-	455	871
Stage 1	-	-	-	-	855	-
Stage 2	-	-	-	-	633	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1354	-	-	-	444	871
Mov Cap-2 Maneuver	-	-	-	-	444	-
Stage 1	-	-	-	-	855	-
Stage 2	-	-	-	-	617	-

Approach	EB	WB	SB
HCM Control Delay, s	0.5	0	12.1
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1354	-	-	-	531
HCM Lane V/C Ratio	0.02	-	-	-	0.049
HCM Control Delay (s)	7.7	0	-	-	12.1
HCM Lane LOS	A	A	-	-	B
HCM 95th %tile Q(veh)	0.1	-	-	-	0.2



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	29	305	23	29	328	64	78	276	19	70	52	10
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1727	1900	1900	1727	1900	1900	1727	1727	1900	1727	1900
Adj Flow Rate, veh/h	32	332	25	32	357	70	85	300	21	76	57	11
Adj No. of Lanes	0	1	0	0	1	0	0	1	1	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	149	596	43	143	536	100	226	489	507	275	163	22
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.40	0.40	0.40	0.40	0.40	0.40	0.35	0.35	0.35	0.35	0.35	0.35
Ln Grp Delay, s/veh	7.8	0.0	0.0	8.5	0.0	0.0	9.3	0.0	6.9	8.3	0.0	0.0
Ln Grp LOS	A			A			A		A	A		
Approach Vol, veh/h		389			459			406			144	
Approach Delay, s/veh		7.8			8.5			9.2			8.3	
Approach LOS		A			A			A			A	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Case No		7.0		8.0		8.0		8.0
Phs Duration (G+Y+Rc), s		14.9		16.7		14.9		16.7
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green (Gmax), s		39.0		43.0		39.0		43.0
Max Allow Headway (MAH), s		4.2		4.1		4.2		4.1
Max Q Clear (g_c+I1), s		8.0		7.6		8.7		9.1
Green Ext Time (g_e), s		2.2		3.6		2.2		3.5
Prob of Phs Call (p_c)		1.00		1.00		1.00		1.00
Prob of Max Out (p_x)		0.00		0.00		0.00		0.00

Left-Turn Movement Data								
Assigned Mvmt		5		7		1		3
Mvmt Sat Flow, veh/h		251		63		291		53

Through Movement Data								
Assigned Mvmt		2		4		6		8
Mvmt Sat Flow, veh/h		1416		1486		472		1336

Right-Turn Movement Data								
Assigned Mvmt		12		14		16		18
Mvmt Sat Flow, veh/h		1468		106		63		250

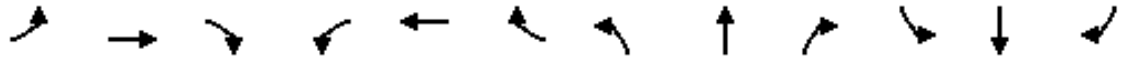
Left Lane Group Data								
Assigned Mvmt	0	5	0	7	0	1	0	3
Lane Assignment		L+T		L+T+R		L+T+R		L+T+R
Lanes in Grp	0	1	0	1	0	1	0	1

Grp Vol (v), veh/h	0	385	0	389	0	144	0	459
Grp Sat Flow (s), veh/h/ln	0	1668	0	1655	0	827	0	1639
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.5
Cycle Q Clear Time (g_c), s	0.0	6.0	0.0	5.6	0.0	6.7	0.0	7.1
Perm LT Sat Flow (s_l), veh/h/ln	0	1354	0	976	0	1075	0	1041
Shared LT Sat Flow (s_sh), veh/h/ln	0	1708	0	1720	0	0	0	1721
Perm LT Eff Green (g_p), s	0.0	10.9	0.0	12.7	0.0	10.9	0.0	12.7
Perm LT Serve Time (g_u), s	0.0	4.2	0.0	5.5	0.0	4.9	0.0	7.1
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.5
Time to First Blk (g_f), s	0.0	3.3	0.0	6.6	0.0	1.8	0.0	6.6
Serve Time pre Blk (g_fs), s	0.0	3.3	0.0	5.6	0.0	1.8	0.0	6.6
Prop LT Inside Lane (P_L)	0.00	0.22	0.00	0.08	0.00	0.53	0.00	0.07
Lane Grp Cap (c), veh/h	0	715	0	788	0	460	0	780
V/C Ratio (X)	0.00	0.54	0.00	0.49	0.00	0.31	0.00	0.59
Avail Cap (c_a), veh/h	0	2127	0	2312	0	1544	0	2311
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	8.7	0.0	7.3	0.0	8.0	0.0	7.8
Incr Delay (d2), s/veh	0.0	0.6	0.0	0.5	0.0	0.4	0.0	0.7
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	9.3	0.0	7.8	0.0	8.3	0.0	8.5
1st-Term Q (Q1), veh/ln	0.0	2.8	0.0	2.6	0.0	1.1	0.0	3.2
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.2
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	2.9	0.0	2.7	0.0	1.1	0.0	3.3
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	0	8
Lane Assignment								
Lanes in Grp	0	0	0	0	0	0	0	0
Grp Vol (v), veh/h	0	0	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	0	18
Lane Assignment		R						
Lanes in Grp	0	1	0	0	0	0	0	0
Grp Vol (v), veh/h	0	21	0	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	1468	0	0	0	0	0	0
Q Serve Time (g_s), s	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	0.06	0.00	0.08	0.00	0.15
Lane Grp Cap (c), veh/h	0	507	0	0	0	0	0	0
V/C Ratio (X)	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	1814	0	0	0	0	0	0
Upstream Filter (I)	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

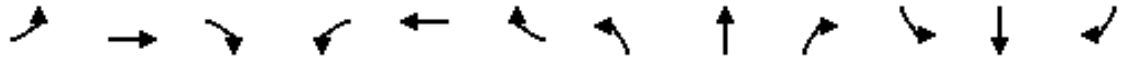
Intersection Summary	
HCM 2010 Ctrl Delay	8.5
HCM 2010 LOS	A



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	29	305	23	29	328	64	78	276	19	70	52	10
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1727	1900	1900	1727	1900	1900	1727	1727	1900	1727	1900
Adj Flow Rate, veh/h	32	332	25	32	357	70	85	300	21	76	57	11
Adj No. of Lanes	0	1	0	0	1	0	0	1	1	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	149	596	43	143	536	100	226	489	507	275	163	22
Arrive On Green	0.40	0.40	0.40	0.40	0.40	0.40	0.35	0.35	0.35	0.35	0.35	0.35
Sat Flow, veh/h	63	1486	106	53	1336	250	251	1416	1468	291	472	63
Grp Volume(v), veh/h	389	0	0	459	0	0	385	0	21	144	0	0
Grp Sat Flow(s),veh/h/ln	1655	0	0	1639	0	0	1668	0	1468	827	0	0
Q Serve(g_s), s	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.3	0.8	0.0	0.0
Cycle Q Clear(g_c), s	5.6	0.0	0.0	7.1	0.0	0.0	6.0	0.0	0.3	6.7	0.0	0.0
Prop In Lane	0.08		0.06	0.07		0.15	0.22		1.00	0.53		0.08
Lane Grp Cap(c), veh/h	788	0	0	780	0	0	715	0	507	460	0	0
V/C Ratio(X)	0.49	0.00	0.00	0.59	0.00	0.00	0.54	0.00	0.04	0.31	0.00	0.00
Avail Cap(c_a), veh/h	2312	0	0	2311	0	0	2127	0	1814	1544	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	7.3	0.0	0.0	7.8	0.0	0.0	8.7	0.0	6.9	8.0	0.0	0.0
Incr Delay (d2), s/veh	0.5	0.0	0.0	0.7	0.0	0.0	0.6	0.0	0.0	0.4	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.7	0.0	0.0	3.3	0.0	0.0	2.9	0.0	0.1	1.1	0.0	0.0
LnGrp Delay(d),s/veh	7.8	0.0	0.0	8.5	0.0	0.0	9.3	0.0	6.9	8.3	0.0	0.0
LnGrp LOS	A			A			A		A	A		
Approach Vol, veh/h		389			459			406			144	
Approach Delay, s/veh		7.8			8.5			9.2			8.3	
Approach LOS		A			A			A			A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Phs Duration (G+Y+Rc), s		14.9		16.7		14.9		16.7
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0
Max Green Setting (Gmax), s		39.0		43.0		39.0		43.0
Max Q Clear Time (g_c+I1), s		8.0		7.6		8.7		9.1
Green Ext Time (p_c), s		2.2		3.6		2.2		3.5

Intersection Summary		
HCM 2010 Ctrl Delay		8.5
HCM 2010 LOS		A



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	290	2788	176	869	1025	60	1125	1282	453	1588	4117	214
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	315	3030	191	945	1114	65	1223	1393	492	1726	4475	233
Adj No. of Lanes	2	3	1	2	3	0	2	3	0	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	334	1257	392	319	1194	70	399	1150	402	532	1768	551
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.10	0.27	0.27	0.10	0.26	0.26	0.13	0.33	0.33	0.17	0.38	0.38
Ln Grp Delay, s/veh	87.7	680.8	38.0	937.3	45.5	47.3	982.7	135.3	142.0	1060.7	726.5	14.9
Ln Grp LOS	F	F	D	F	D	D	F	F	F	F	F	B
Approach Vol, veh/h		3536			2124			3108			6434	
Approach Delay, s/veh		593.2			442.6			470.1			790.4	
Approach LOS		F			F			F			F	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	3	4	5	6	8	7
Case No	4.0	2.0	2.0	3.0	2.0	3.0	4.0	2.0
Phs Duration (G+Y+Rc), s	44.0	24.0	16.0	36.0	19.0	49.0	35.4	16.6
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	40.0	20.0	12.0	32.0	15.0	45.0	32.0	12.0
Max Allow Headway (MAH), s	4.1	4.0	4.1	4.0	4.1	4.0	4.0	4.0
Max Q Clear (g_c+I1), s	42.0	22.0	14.0	34.0	17.0	47.0	30.7	13.8
Green Ext Time (g_e), s	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prob of Max Out (p_x)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt		1	3		5			7
Mvmt Sat Flow, veh/h		3191	3191		3191			3191

Through Movement Data								
Assigned Mvmt	2			4		6	8	
Mvmt Sat Flow, veh/h	3451			4715		4715	4558	

Right-Turn Movement Data								
Assigned Mvmt	12			14		16	18	
Mvmt Sat Flow, veh/h	1207			1468		1468	266	

Left Lane Group Data								
Assigned Mvmt	0	1	3	0	5	0	0	7
Lane Assignment		(Prot)	(Prot)		(Prot)			(Prot)
Lanes in Grp	0	2	2	0	2	0	0	2

Grp Vol (v), veh/h	0	1726	945	0	1223	0	0	315
Grp Sat Flow (s), veh/h/ln	0	1596	1596	0	1596	0	0	1596
Q Serve Time (g_s), s	0.0	20.0	12.0	0.0	15.0	0.0	0.0	11.8
Cycle Q Clear Time (g_c), s	0.0	20.0	12.0	0.0	15.0	0.0	0.0	11.8
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	532	319	0	399	0	0	334
V/C Ratio (X)	0.00	3.25	2.96	0.00	3.07	0.00	0.00	0.94
Avail Cap (c_a), veh/h	0	532	319	0	399	0	0	334
Upstream Filter (I)	0.00	0.09	0.09	0.00	0.09	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	50.0	54.0	0.0	52.5	0.0	0.0	53.3
Incr Delay (d2), s/veh	0.0	1010.7	883.3	0.0	930.2	0.0	0.0	34.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	1060.7	937.3	0.0	982.7	0.0	0.0	87.7
1st-Term Q (Q1), veh/ln	0.0	8.8	5.3	0.0	6.6	0.0	0.0	5.2
2nd-Term Q (Q2), veh/ln	0.0	74.7	39.2	0.0	51.5	0.0	0.0	1.6
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	83.5	44.4	0.0	58.1	0.0	0.0	6.8
%ile Storage Ratio (RQ%)	0.00	0.22	0.08	0.00	0.07	0.00	0.00	0.04
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	298.5	156.5	0.0	206.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.8	0.7	0.0	0.8	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	0	6	8	0
Lane Assignment	T			T		T	T	
Lanes in Grp	2	0	0	3	0	3	2	0
Grp Vol (v), veh/h	1268	0	0	3030	0	4475	768	0
Grp Sat Flow (s), veh/h/ln	1572	0	0	1572	0	1572	1572	0
Q Serve Time (g_s), s	40.0	0.0	0.0	32.0	0.0	45.0	28.6	0.0
Cycle Q Clear Time (g_c), s	40.0	0.0	0.0	32.0	0.0	45.0	28.6	0.0
Lane Grp Cap (c), veh/h	1048	0	0	1257	0	1768	823	0
V/C Ratio (X)	1.21	0.00	0.00	2.41	0.00	2.53	0.93	0.00
Avail Cap (c_a), veh/h	1048	0	0	1257	0	1768	838	0
Upstream Filter (I)	0.09	0.00	0.00	1.00	0.00	0.09	0.09	0.00
Uniform Delay (d1), s/veh	40.0	0.0	0.0	44.0	0.0	37.5	43.3	0.0
Incr Delay (d2), s/veh	95.3	0.0	0.0	636.8	0.0	689.0	2.2	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	135.3	0.0	0.0	680.8	0.0	726.5	45.5	0.0
1st-Term Q (Q1), veh/ln	17.3	0.0	0.0	13.9	0.0	19.5	12.4	0.0
2nd-Term Q (Q2), veh/ln	13.9	0.0	0.0	74.1	0.0	112.8	0.3	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	31.2	0.0	0.0	88.0	0.0	132.3	12.6	0.0
%ile Storage Ratio (RQ%)	0.04	0.00	0.00	0.46	0.00	0.34	0.02	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	55.0	0.0	0.0	443.1	0.0	676.7	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.3	0.0	0.0	0.6	0.0	0.6	0.0	0.0

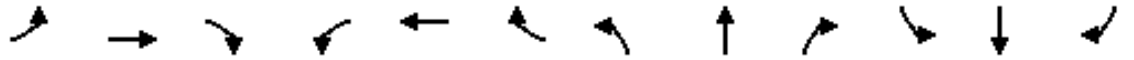
Right Lane Group Data								
Assigned Mvmt	12	0	0	14	0	16	18	0
Lane Assignment	T+R			R		R	T+R	
Lanes in Grp	1	0	0	1	0	1	1	0
Grp Vol (v), veh/h	617	0	0	191	0	233	411	0
Grp Sat Flow (s), veh/h/ln	1514	0	0	1468	0	1468	1680	0
Q Serve Time (g_s), s	40.0	0.0	0.0	13.2	0.0	10.3	28.7	0.0
Cycle Q Clear Time (g_c), s	40.0	0.0	0.0	13.2	0.0	10.3	28.7	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.80	0.00	0.00	1.00	0.00	1.00	0.16	0.00
Lane Grp Cap (c), veh/h	505	0	0	392	0	551	440	0
V/C Ratio (X)	1.22	0.00	0.00	0.49	0.00	0.42	0.93	0.00
Avail Cap (c_a), veh/h	505	0	0	392	0	551	448	0
Upstream Filter (I)	0.09	0.00	0.00	1.00	0.00	0.09	0.09	0.00
Uniform Delay (d1), s/veh	40.0	0.0	0.0	37.1	0.0	14.7	43.3	0.0
Incr Delay (d2), s/veh	102.0	0.0	0.0	0.9	0.0	0.2	4.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	142.0	0.0	0.0	38.0	0.0	14.9	47.3	0.0
1st-Term Q (Q1), veh/ln	16.7	0.0	0.0	5.4	0.0	4.2	13.2	0.0
2nd-Term Q (Q2), veh/ln	14.3	0.0	0.0	0.1	0.0	0.0	0.5	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	31.0	0.0	0.0	5.5	0.0	4.2	13.7	0.0
%ile Storage Ratio (RQ%)	0.04	0.00	0.00	0.03	0.00	0.01	0.03	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	28.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	630.4
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	290	2788	176	869	1025	60	1125	1282	453	1588	4117	214
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1900	1727	1727	1900	1727	1727	1727
Adj Flow Rate, veh/h	315	3030	191	945	1114	65	1223	1393	492	1726	4475	233
Adj No. of Lanes	2	3	1	2	3	0	2	3	0	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	334	1257	392	319	1194	70	399	1150	402	532	1768	551
Arrive On Green	0.10	0.27	0.27	0.10	0.26	0.26	0.13	0.33	0.33	0.17	0.38	0.38
Sat Flow, veh/h	3191	4715	1468	3191	4558	266	3191	3451	1207	3191	4715	1468
Grp Volume(v), veh/h	315	3030	191	945	768	411	1223	1268	617	1726	4475	233
Grp Sat Flow(s),veh/h/ln	1596	1572	1468	1596	1572	1680	1596	1572	1514	1596	1572	1468
Q Serve(g_s), s	11.8	32.0	13.2	12.0	28.6	28.7	15.0	40.0	40.0	20.0	45.0	10.3
Cycle Q Clear(g_c), s	11.8	32.0	13.2	12.0	28.6	28.7	15.0	40.0	40.0	20.0	45.0	10.3
Prop In Lane	1.00		1.00	1.00		0.16	1.00		0.80	1.00		1.00
Lane Grp Cap(c), veh/h	334	1257	392	319	823	440	399	1048	505	532	1768	551
V/C Ratio(X)	0.94	2.41	0.49	2.96	0.93	0.93	3.07	1.21	1.22	3.25	2.53	0.42
Avail Cap(c_a), veh/h	334	1257	392	319	838	448	399	1048	505	532	1768	551
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Uniform Delay (d), s/veh	53.3	44.0	37.1	54.0	43.3	43.3	52.5	40.0	40.0	50.0	37.5	14.7
Incr Delay (d2), s/veh	34.3	636.8	0.9	883.3	2.2	4.0	930.2	95.3	102.0	1010.7	689.0	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.8	88.0	5.5	44.4	12.6	13.7	58.1	31.2	31.0	83.5	132.3	4.2
LnGrp Delay(d),s/veh	87.7	680.8	38.0	937.3	45.5	47.3	982.7	135.3	142.0	1060.7	726.5	14.9
LnGrp LOS	F	F	D	F	D	D	F	F	F	F	F	B
Approach Vol, veh/h		3536			2124			3108			6434	
Approach Delay, s/veh		593.2			442.6			470.1			790.4	
Approach LOS		F			F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	24.0	44.0	16.0	36.0	19.0	49.0	16.6	35.4
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	20.0	40.0	12.0	32.0	15.0	45.0	12.0	32.0
Max Q Clear Time (g_c+I1), s	22.0	42.0	14.0	34.0	17.0	47.0	13.8	30.7
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8

Intersection Summary	
HCM 2010 Ctrl Delay	630.4
HCM 2010 LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	25	2429	440	772	1900	882	0	0	519	0	0	0
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	27	2640	478	839	2065	959	0	0	564	0	0	0
Adj No. of Lanes	1	2	1	2	2	1	2	2	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	33	1641	734	505	2096	938	771	574	257	106	4	1
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.02	0.50	0.50	0.16	0.64	0.64	0.00	0.00	0.17	0.00	0.00	0.00
Ln Grp Delay, s/veh	63.5	304.2	22.4	356.4	37.4	46.7	0.0	0.0	599.9	0.0	0.0	0.0
Ln Grp LOS	E	F	C	F	D	F			F			
Approach Vol, veh/h		3145			3863			564			0	
Approach Delay, s/veh		259.3			109.0			599.9			0.0	
Approach LOS		F			F			F				

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1	4	3	6	5	7	8
Case No	3.0	2.0	3.0	2.0	3.0	2.0	2.0	3.0
Phs Duration (G+Y+Rc), s	25.0	8.0	64.0	23.0	0.0	33.0	6.4	80.6
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	21.0	4.0	60.0	19.0	21.0	4.0	4.0	75.0
Max Allow Headway (MAH), s	4.4	0.0	4.1	4.1	0.0	0.0	4.1	4.1
Max Q Clear (g_c+I1), s	23.0	0.0	62.0	21.0	0.0	0.0	4.0	75.6
Green Ext Time (g_e), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prob of Phs Call (p_c)	1.00	0.00	1.00	1.00	0.00	0.00	0.59	1.00
Prob of Max Out (p_x)	1.00	0.00	1.00	1.00	0.00	0.00	1.00	1.00

Left-Turn Movement Data								
Assigned Mvmt		1		3		5	7	
Mvmt Sat Flow, veh/h		3191		3191		3191	1645	

Through Movement Data								
Assigned Mvmt	2		4		6			8
Mvmt Sat Flow, veh/h	3282		3282		4715			3282

Right-Turn Movement Data								
Assigned Mvmt	12		14		16			18
Mvmt Sat Flow, veh/h	1468		1468		1468			1468

Left Lane Group Data								
Assigned Mvmt	0	1	0	3	0	5	7	0
Lane Assignment		(Prot)		(Prot)		(Prot)	(Prot)	
Lanes in Grp	0	2	0	2	0	2	1	0

Grp Vol (v), veh/h	0	0	0	839	0	0	27	0
Grp Sat Flow (s), veh/h/ln	0	1596	0	1596	0	1596	1645	0
Q Serve Time (g_s), s	0.0	0.0	0.0	19.0	0.0	0.0	2.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	19.0	0.0	0.0	2.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	106	0	505	0	771	33	0
V/C Ratio (X)	0.00	0.00	0.00	1.66	0.00	0.00	0.83	0.00
Avail Cap (c_a), veh/h	0	106	0	505	0	771	55	0
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.00	0.09	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	50.5	0.0	0.0	58.6	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	305.9	0.0	0.0	4.9	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	356.4	0.0	0.0	63.5	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	8.4	0.0	0.0	0.9	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	21.5	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	29.8	0.0	0.0	0.9	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	4.31	0.00	0.00	0.33	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	83.4	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	4	0	6	0	0	8
Lane Assignment	T		T		T			T
Lanes in Grp	2	0	2	0	3	0	0	2
Grp Vol (v), veh/h	0	0	2640	0	0	0	0	2065
Grp Sat Flow (s), veh/h/ln	1641	0	1641	0	1572	0	0	1641
Q Serve Time (g_s), s	0.0	0.0	60.0	0.0	0.0	0.0	0.0	73.6
Cycle Q Clear Time (g_c), s	0.0	0.0	60.0	0.0	0.0	0.0	0.0	73.6
Lane Grp Cap (c), veh/h	574	0	1641	0	4	0	0	2096
V/C Ratio (X)	0.00	0.00	1.61	0.00	0.00	0.00	0.00	0.99
Avail Cap (c_a), veh/h	574	0	1641	0	825	0	0	2096
Upstream Filter (I)	0.00	0.00	0.09	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	30.0	0.0	0.0	0.0	0.0	21.1
Incr Delay (d2), s/veh	0.0	0.0	274.2	0.0	0.0	0.0	0.0	16.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	304.2	0.0	0.0	0.0	0.0	37.4
1st-Term Q (Q1), veh/ln	0.0	0.0	27.1	0.0	0.0	0.0	0.0	33.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	62.5	0.0	0.0	0.0	0.0	4.7

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	89.6	0.0	0.0	0.0	0.0	37.7
%ile Storage Ratio (RQ%)	0.00	0.00	0.19	0.00	0.00	0.00	0.00	1.55
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	249.8	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	14	0	16	0	0	18
Lane Assignment	R		R		R			R
Lanes in Grp	1	0	1	0	1	0	0	1
Grp Vol (v), veh/h	564	0	478	0	0	0	0	959
Grp Sat Flow (s), veh/h/ln	1468	0	1468	0	1468	0	0	1468
Q Serve Time (g_s), s	21.0	0.0	29.0	0.0	0.0	0.0	0.0	55.4
Cycle Q Clear Time (g_c), s	21.0	0.0	29.0	0.0	0.0	0.0	0.0	55.4
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	257	0	734	0	1	0	0	938
V/C Ratio (X)	2.20	0.00	0.65	0.00	0.00	0.00	0.00	1.02
Avail Cap (c_a), veh/h	257	0	734	0	257	0	0	938
Upstream Filter (I)	1.00	0.00	0.09	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	49.5	0.0	22.2	0.0	0.0	0.0	0.0	11.3
Incr Delay (d2), s/veh	550.4	0.0	0.2	0.0	0.0	0.0	0.0	35.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	599.9	0.0	22.4	0.0	0.0	0.0	0.0	46.7
1st-Term Q (Q1), veh/ln	8.5	0.0	11.7	0.0	0.0	0.0	0.0	22.0
2nd-Term Q (Q2), veh/ln	39.3	0.0	0.0	0.0	0.0	0.0	0.0	9.2
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	47.8	0.0	11.7	0.0	0.0	0.0	0.0	31.2
%ile Storage Ratio (RQ%)	3.85	0.00	1.38	0.00	0.00	0.00	0.00	1.28
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	76.8	0.0	0.0	0.0	0.0	0.0	0.0	5.4
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.3

Intersection Summary	
HCM 2010 Ctrl Delay	208.0
HCM 2010 LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	25	2429	440	772	1900	882	0	0	519	0	0	0
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
Adj Flow Rate, veh/h	27	2640	478	839	2065	959	0	0	564	0	0	0
Adj No. of Lanes	1	2	1	2	2	1	2	2	1	2	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	33	1641	734	505	2096	938	771	574	257	106	4	1
Arrive On Green	0.02	0.50	0.50	0.16	0.64	0.64	0.00	0.00	0.17	0.00	0.00	0.00
Sat Flow, veh/h	1645	3282	1468	3191	3282	1468	3191	3282	1468	3191	4715	1468
Grp Volume(v), veh/h	27	2640	478	839	2065	959	0	0	564	0	0	0
Grp Sat Flow(s),veh/h/ln	1645	1641	1468	1596	1641	1468	1596	1641	1468	1596	1572	1468
Q Serve(g_s), s	2.0	60.0	29.0	19.0	73.6	55.4	0.0	0.0	21.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	2.0	60.0	29.0	19.0	73.6	55.4	0.0	0.0	21.0	0.0	0.0	0.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	33	1641	734	505	2096	938	771	574	257	106	4	1
V/C Ratio(X)	0.83	1.61	0.65	1.66	0.99	1.02	0.00	0.00	2.20	0.00	0.00	0.00
Avail Cap(c_a), veh/h	55	1641	734	505	2096	938	771	574	257	106	825	257
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.09	0.09	0.09	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00
Uniform Delay (d), s/veh	58.6	30.0	22.2	50.5	21.1	11.3	0.0	0.0	49.5	0.0	0.0	0.0
Incr Delay (d2), s/veh	4.9	274.2	0.2	305.9	16.3	35.3	0.0	0.0	550.4	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	89.6	11.7	29.8	37.7	31.2	0.0	0.0	47.8	0.0	0.0	0.0
LnGrp Delay(d),s/veh	63.5	304.2	22.4	356.4	37.4	46.7	0.0	0.0	599.9	0.0	0.0	0.0
LnGrp LOS	E	F	C	F	D	F			F			
Approach Vol, veh/h		3145			3863			564			0	
Approach Delay, s/veh		259.3			109.0			599.9			0.0	
Approach LOS		F			F			F				

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.0	25.0	23.0	64.0	33.0	0.0	6.4	80.6
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	4.0	21.0	19.0	60.0	4.0	21.0	4.0	75.0
Max Q Clear Time (g_c+I1), s	0.0	23.0	21.0	62.0	0.0	0.0	4.0	75.6
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	208.0
HCM 2010 LOS	F

Intersection	
Int Delay, s/veh	1098.3

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	1885	55	48	647	194	185
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	0	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	2049	60	52	703	211	201

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	2109	0	2887	2079
Stage 1	-	-	-	-	2079	-
Stage 2	-	-	-	-	808	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	244	-	~ 17	~ 64
Stage 1	-	-	-	-	~ 99	-
Stage 2	-	-	-	-	425	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	244	-	~ 13	~ 64
Mov Cap-2 Maneuver	-	-	-	-	~ 13	-
Stage 1	-	-	-	-	~ 99	-
Stage 2	-	-	-	-	334	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.6	$ 8731
HCM LOS			F

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	21	-	-	244	-
HCM Lane V/C Ratio	19.617	-	-	0.214	-
HCM Control Delay (s)	$ 8731	-	-	23.7	-
HCM Lane LOS	F	-	-	C	-
HCM 95th %tile Q(veh)	51.8	-	-	0.8	-

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL2	SBL	SBR	NWL	NWR	NWR2
Lane Configurations												
Volume (veh/h)	42	605	23	187	81	95	8	255	44	236	407	165
Number	7	4	14	3	8	18	1	1	16	5	12	12
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1520	1520	1520	1520	1520	1520	1759	1759	1759	1759	1759	1759
Adj Flow Rate, veh/h	46	658	25	203	88	103	9	9	48	257	179	179
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	25	25	25	25	25	25	8	8	8	8	8	8
Opposing Right Turn Influence	Yes			Yes			Yes	Yes		Yes		
Cap, veh/h	468	762	341	235	297	133	15	15	275	310	538	538
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.32	0.26	0.26	0.16	0.10	0.10	0.01	0.01	0.18	0.18	0.36	0.36
Ln Grp Delay, s/veh	18.5	34.7	8.1	52.8	32.9	35.4	70.0	70.0	27.1	45.0	18.5	18.5
Ln Grp LOS	B	C	A	D	C	D	E	E	C	D	B	B
Approach Vol, veh/h		729			394		334	334		878		
Approach Delay, s/veh		32.7			43.8		42.7	42.7		29.2		
Approach LOS		C			D		D	D		C		

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	6	5	8	7
Case No	2.0	3.0	2.0	3.0	3.0	2.0	3.0	2.0
Phs Duration (G+Y+Rc), s	4.7	32.0	16.6	24.6	18.3	18.4	12.0	29.2
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s	4.0	30.0	15.0	25.0	18.0	16.0	33.0	7.0
Max Allow Headway (MAH), s	4.1	4.1	4.2	4.1	4.1	4.1	4.2	4.1
Max Q Clear (g_c+I1), s	2.4	18.8	12.7	18.9	13.9	13.5	7.3	3.7
Green Ext Time (g_e), s	0.0	2.7	0.2	1.6	0.4	1.0	0.7	1.1
Prob of Phs Call (p_c)	0.18	1.00	0.99	1.00	1.00	1.00	1.00	0.63
Prob of Max Out (p_x)	1.00	0.19	1.00	0.55	0.97	1.00	0.00	1.00

Left-Turn Movement Data								
Assigned Mvmt	1		3			5		7
Mvmt Sat Flow, veh/h	1675		1448			1675		1448

Through Movement Data								
Assigned Mvmt		2		4	6		8	
Mvmt Sat Flow, veh/h		1759		2888	1759		2888	

Right-Turn Movement Data								
Assigned Mvmt		12		14	16		18	
Mvmt Sat Flow, veh/h		1495		1292	1495		1292	

Left Lane Group Data								
Assigned Mvmt	1	0	3	0	0	5	0	7
Lane Assignment	(Prot)		(Prot)			(Prot)		(Prot)
Lanes in Grp	1	0	1	0	0	1	0	1

Grp Vol (v), veh/h	9	0	203	0	0	257	0	46
Grp Sat Flow (s), veh/h/ln	1675	0	1448	0	0	1675	0	1448
Q Serve Time (g_s), s	0.4	0.0	10.7	0.0	0.0	11.5	0.0	1.7
Cycle Q Clear Time (g_c), s	0.4	0.0	10.7	0.0	0.0	11.5	0.0	1.7
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	15	0	235	0	0	310	0	468
V/C Ratio (X)	0.59	0.00	0.86	0.00	0.00	0.83	0.00	0.10
Avail Cap (c_a), veh/h	86	0	278	0	0	344	0	468
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	38.5	0.0	31.8	0.0	0.0	30.6	0.0	18.4
Incr Delay (d2), s/veh	31.5	0.0	20.9	0.0	0.0	14.4	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	70.0	0.0	52.8	0.0	0.0	45.0	0.0	18.5
1st-Term Q (Q1), veh/ln	0.2	0.0	4.2	0.0	0.0	5.3	0.0	0.7
2nd-Term Q (Q2), veh/ln	0.1	0.0	1.4	0.0	0.0	1.2	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.3	0.0	5.6	0.0	0.0	6.5	0.0	0.7
%ile Storage Ratio (RQ%)	0.02	0.00	0.20	0.00	0.00	0.37	0.00	0.03
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	6	0	8	0
Lane Assignment		T		T	T		T	
Lanes in Grp	0	1	0	2	1	0	2	0
Grp Vol (v), veh/h	0	442	0	658	277	0	88	0
Grp Sat Flow (s), veh/h/ln	0	1759	0	1444	1759	0	1444	0
Q Serve Time (g_s), s	0.0	16.8	0.0	16.9	11.9	0.0	2.2	0.0
Cycle Q Clear Time (g_c), s	0.0	16.8	0.0	16.9	11.9	0.0	2.2	0.0
Lane Grp Cap (c), veh/h	0	633	0	762	323	0	297	0
V/C Ratio (X)	0.00	0.70	0.00	0.86	0.86	0.00	0.30	0.00
Avail Cap (c_a), veh/h	0	677	0	926	406	0	1222	0
Upstream Filter (I)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	21.3	0.0	27.4	30.8	0.0	32.4	0.0
Incr Delay (d2), s/veh	0.0	2.9	0.0	7.3	13.7	0.0	0.6	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	24.3	0.0	34.7	44.6	0.0	32.9	0.0
1st-Term Q (Q1), veh/ln	0.0	8.1	0.0	6.8	5.8	0.0	0.9	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.5	0.0	0.8	1.2	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	8.6	0.0	7.5	7.0	0.0	0.9	0.0
%ile Storage Ratio (RQ%)	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	16	0	18	0
Lane Assignment		R		R	R		R	
Lanes in Grp	0	1	0	1	1	0	1	0
Grp Vol (v), veh/h	0	179	0	25	48	0	103	0
Grp Sat Flow (s), veh/h/ln	0	1495	0	1292	1495	0	1292	0
Q Serve Time (g_s), s	0.0	6.8	0.0	0.7	2.1	0.0	5.3	0.0
Cycle Q Clear Time (g_c), s	0.0	6.8	0.0	0.7	2.1	0.0	5.3	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	538	0	341	275	0	133	0
V/C Ratio (X)	0.00	0.33	0.00	0.07	0.17	0.00	0.78	0.00
Avail Cap (c_a), veh/h	0	575	0	414	345	0	547	0
Upstream Filter (I)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	18.2	0.0	8.0	26.8	0.0	26.1	0.0
Incr Delay (d2), s/veh	0.0	0.4	0.0	0.1	0.3	0.0	9.3	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	18.5	0.0	8.1	27.1	0.0	35.4	0.0
1st-Term Q (Q1), veh/ln	0.0	2.8	0.0	0.2	0.9	0.0	1.9	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.0	0.0	0.0	0.3	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	2.8	0.0	0.3	0.9	0.0	2.2	0.0
%ile Storage Ratio (RQ%)	0.00	0.16	0.00	0.01	0.05	0.00	0.15	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	34.7
HCM 2010 LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL2	SBL	SBR	NWL	NWR	NWR2
Lane Configurations												
Volume (veh/h)	42	605	23	187	81	95	8	255	44	236	407	165
Number	7	4	14	3	8	18	1	1	16	5	12	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1520	1520	1520	1520	1520	1520	1759	1759	1759	1759	1759	1759
Adj Flow Rate, veh/h	46	658	25	203	88	103	9	9	48	257	179	179
Adj No. of Lanes	1	2	1	1	2	1	1	1	1	1	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	25	25	25	25	25	25	8	8	8	8	8	8
Cap, veh/h	468	762	341	235	297	133	15	15	275	310	538	538
Arrive On Green	0.32	0.26	0.26	0.16	0.10	0.10	0.01	0.01	0.18	0.18	0.36	0.36
Sat Flow, veh/h	1448	2888	1292	1448	2888	1292	1675	1675	1495	1675	1495	1495
Grp Volume(v), veh/h	46	658	25	203	88	103	9	9	48	257	179	179
Grp Sat Flow(s),veh/h/ln	1448	1444	1292	1448	1444	1292	1675	1675	1495	1675	1495	1495
Q Serve(g_s), s	1.7	16.9	0.7	10.7	2.2	5.3	0.4	0.4	2.1	11.5	6.8	6.8
Cycle Q Clear(g_c), s	1.7	16.9	0.7	10.7	2.2	5.3	0.4	0.4	2.1	11.5	6.8	6.8
Prop In Lane	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lane Grp Cap(c), veh/h	468	762	341	235	297	133	15	15	275	310	538	538
V/C Ratio(X)	0.10	0.86	0.07	0.86	0.30	0.78	0.59	0.59	0.17	0.83	0.33	0.33
Avail Cap(c_a), veh/h	468	926	414	278	1222	547	86	86	345	344	575	575
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	18.4	27.4	8.0	31.8	32.4	26.1	38.5	38.5	26.8	30.6	18.2	18.2
Incr Delay (d2), s/veh	0.1	7.3	0.1	20.9	0.6	9.3	31.5	31.5	0.3	14.4	0.4	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	7.5	0.3	5.6	0.9	2.2	0.3	0.3	0.9	6.5	2.8	2.8
LnGrp Delay(d),s/veh	18.5	34.7	8.1	52.8	32.9	35.4	70.0	70.0	27.1	45.0	18.5	18.5
LnGrp LOS	B	C	A	D	C	D	E	E	C	D	B	B
Approach Vol, veh/h		729			394		334	334		878		
Approach Delay, s/veh		32.7			43.8		42.7	42.7		29.2		
Approach LOS		C			D		D	D		C		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	4.7	32.0	16.6	24.6	18.4	18.3	29.2	12.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	4.0	30.0	15.0	25.0	16.0	18.0	7.0	33.0
Max Q Clear Time (g_c+I1), s	2.4	18.8	12.7	18.9	13.5	13.9	3.7	7.3
Green Ext Time (p_c), s	0.0	2.7	0.2	1.6	1.0	0.4	1.1	0.7

Intersection Summary	
HCM 2010 Ctrl Delay	34.7
HCM 2010 LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NWL	NWR
Lane Configurations										
Volume (veh/h)	0	579	739	7	744	0	64	243	0	0
Number	7	4	14	3	8	18	1	16		
Initial Q, veh	0	0	0	0	0	0	0	0		
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00		
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Adj Sat Flow, veh/h/ln	0	1520	1900	1900	1520	0	1450	1900		
Adj Flow Rate, veh/h	0	629	803	8	809	0	70	264		
Adj No. of Lanes	0	1	0	0	1	0	0	0		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92		
Percent Heavy Veh, %	0	25	25	25	25	0	0	0		
Opposing Right Turn Influence	No			Yes			Yes			
Cap, veh/h	0	470	600	0	1176	0	40	150		
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Prop Arrive On Green	0.00	0.77	0.77	0.00	0.77	0.00	0.15	0.15		
Ln Grp Delay, s/veh	0.0	0.0	170.6	0.0	7.2	0.0	407.2	0.0		
Ln Grp LOS			F		A		F			

Approach Vol, veh/h	1432	809	335	Timer:
Approach Delay, s/veh	170.6	7.2	407.2	Assigned Phs
Approach LOS	F	A	F	Case No
Phs Duration (G+Y+Rc), s	20.0	0.0	86.0	86.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0
Max Green (Gmax), s	16.0	4.0	82.0	90.0
Max Allow Headway (MAH), s	4.4	0.0	4.2	4.2
Max Q Clear (g_c+I1), s	18.0	0.0	84.0	29.3
Green Ext Time (g_e), s	0.0	0.0	0.0	28.0
Prob of Phs Call (p_c)	1.00	0.00	1.00	1.00
Prob of Max Out (p_x)	1.00	0.00	1.00	0.29

Left-Turn Movement Data				
Assigned Mvmt	1	3	7	
Mvmt Sat Flow, veh/h	264	0	0	

Through Movement Data				
Assigned Mvmt	6		4	8
Mvmt Sat Flow, veh/h	4		608	1520

Right-Turn Movement Data				
Assigned Mvmt	16		14	18
Mvmt Sat Flow, veh/h	994		776	0

Left Lane Group Data									
Assigned Mvmt	1	0	3	7	0	0	0	0	
Lane Assignment	L+T+R								
Lanes in Grp	1	0	0	0	0	0	0	0	
Grp Vol (v), veh/h	335	0	0	0	0	0	0	0	
Grp Sat Flow (s), veh/h/ln	1262	0	0	0	0	0	0	0	
Q Serve Time (g_s), s	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Cycle Q Clear Time (g_c), s	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	82.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	190	0	0	0	0	0	0	0
V/C Ratio (X)	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	190	0	0	0	0	0	0	0
Upstream Filter (I)	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	362.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	407.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00
%ile Back of Q (50%), veh/ln	24.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	36.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	6	0	0	4	0	0	0	8
Lane Assignment								T
Lanes in Grp	0	0	0	0	0	0	0	1
Grp Vol (v), veh/h	0	0	0	0	0	0	0	809
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	1520
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.3
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.3
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	1176
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	1291
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.7

%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	16	0	0	14	0	0	0	18
Lane Assignment				T+R				
Lanes in Grp	0	0	0	1	0	0	0	0
Grp Vol (v), veh/h	0	0	0	1432	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1383	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	82.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	82.0	0.0	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.79	0.00	0.00	0.56	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	0	0	1070	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	1070	0	0	0	0
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	12.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	158.6	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	170.6	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	30.3	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	47.2	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	77.5	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	90.5	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	150.1
HCM 2010 LOS	F

Notes

User approved volume balancing among the lanes for turning movement.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NWL	NWR
Lane Configurations										
Volume (veh/h)	0	579	739	7	744	0	64	243	0	0
Number	7	4	14	3	8	18	1	16		
Initial Q (Qb), veh	0	0	0	0	0	0	0	0		
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00		
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Adj Sat Flow, veh/h/ln	0	1520	1900	1900	1520	0	1450	1900		
Adj Flow Rate, veh/h	0	629	803	8	809	0	70	264		
Adj No. of Lanes	0	1	0	0	1	0	0	0		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92		
Percent Heavy Veh, %	0	25	25	25	25	0	0	0		
Cap, veh/h	0	470	600	0	1176	0	40	150		
Arrive On Green	0.00	0.77	0.77	0.00	0.77	0.00	0.15	0.15		
Sat Flow, veh/h	0	608	776	0	1520	0	264	994		
Grp Volume(v), veh/h	0	0	1432	0	809	0	335	0		
Grp Sat Flow(s),veh/h/ln	0	0	1383	0	1520	0	1262	0		
Q Serve(g_s), s	0.0	0.0	82.0	0.0	27.3	0.0	16.0	0.0		
Cycle Q Clear(g_c), s	0.0	0.0	82.0	0.0	27.3	0.0	16.0	0.0		
Prop In Lane	0.00		0.56	0.00		0.00	0.21	0.79		
Lane Grp Cap(c), veh/h	0	0	1070	0	1176	0	190	0		
V/C Ratio(X)	0.00	0.00	1.34	0.00	0.69	0.00	1.76	0.00		
Avail Cap(c_a), veh/h	0	0	1070	0	1291	0	190	0		
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Upstream Filter(I)	0.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00		
Uniform Delay (d), s/veh	0.0	0.0	12.0	0.0	5.8	0.0	45.0	0.0		
Incr Delay (d2), s/veh	0.0	0.0	158.6	0.0	1.4	0.0	362.2	0.0		
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
%ile BackOfQ(50%),veh/ln	0.0	0.0	77.5	0.0	11.7	0.0	24.7	0.0		
LnGrp Delay(d),s/veh	0.0	0.0	170.6	0.0	7.2	0.0	407.2	0.0		
LnGrp LOS			F		A		F			
Approach Vol, veh/h		1432			809		335			
Approach Delay, s/veh		170.6			7.2		407.2			
Approach LOS		F			A		F			

Timer	1	2	3	4	5	6	7	8
Assigned Phs			3	4		6		8
Phs Duration (G+Y+Rc), s			0.0	86.0		20.0		86.0
Change Period (Y+Rc), s			4.0	4.0		4.0		4.0
Max Green Setting (Gmax), s			4.0	82.0		16.0		90.0
Max Q Clear Time (g_c+I1), s			0.0	84.0		18.0		29.3
Green Ext Time (p_c), s			0.0	0.0		0.0		28.0

Intersection Summary	
HCM 2010 Ctrl Delay	150.1
HCM 2010 LOS	F

Notes

User approved volume balancing among the lanes for turning movement.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBR	SEL	SER
Lane Configurations										
Volume (veh/h)	126	287	0	0	185	80	291	45	0	0
Number	7	4	14	3	8	18	5	12		
Initial Q, veh	0	0	0	0	0	0	0	0		
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00		
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Adj Sat Flow, veh/h/ln	1520	1520	0	0	1520	1520	1900	1900		
Adj Flow Rate, veh/h	137	312	0	0	201	87	0	49		
Adj No. of Lanes	1	1	0	0	1	1	0	0		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92		
Percent Heavy Veh, %	25	25	0	0	25	25	0	0		
Opposing Right Turn Influence	Yes			No			Yes			
Cap, veh/h	196	683	0	0	307	261	0	62		
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Prop Arrive On Green	0.14	0.45	0.00	0.00	0.20	0.20	0.00	0.33		
Ln Grp Delay, s/veh	19.2	7.3	0.0	0.0	15.5	13.0	0.0	13.9		
Ln Grp LOS	B	A			B	B		B		

Approach Vol, veh/h	449	288	365	Timer:
Approach Delay, s/veh	10.9	14.7	13.9	Assigned Phs
Approach LOS	B	B	B	Case No

Phs Duration (G+Y+Rc), s	15.7	20.1	11.2	8.9	
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	
Max Green (Gmax), s	38.0	44.0	23.0	17.0	
Max Allow Headway (MAH), s	4.1	4.1	4.2	4.1	
Max Q Clear (g_c+I1), s	10.4	7.1	6.4	5.2	
Green Ext Time (g_e), s	1.4	1.6	0.9	1.3	
Prob of Phs Call (p_c)	1.00	1.00	1.00	0.74	
Prob of Max Out (p_x)	0.00	0.00	0.00	0.04	

Left-Turn Movement Data					
Assigned Mvmt	5		3	7	
Mvmt Sat Flow, veh/h	0		0	1448	

Through Movement Data					
Assigned Mvmt	2	4	8		
Mvmt Sat Flow, veh/h	1227	1520	1520		

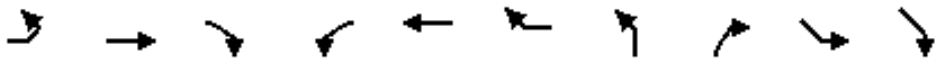
Right-Turn Movement Data					
Assigned Mvmt	12	14	18		
Mvmt Sat Flow, veh/h	190	0	1292		

Left Lane Group Data										
Assigned Mvmt	0	5	0	0	0	0	3	7		
Lane Assignment								(Prot)		
Lanes in Grp	0	0	0	0	0	0	0	1		
Grp Vol (v), veh/h	0	0	0	0	0	0	0	137		
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	0	0	1448		
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2		

Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	7.2	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	0	0	0	0	0	0	196
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70
Avail Cap (c_a), veh/h	0	0	0	0	0	0	0	687
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.8
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.2
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	0	8	0
Lane Assignment				T			T	
Lanes in Grp	0	0	0	1	0	0	1	0
Grp Vol (v), veh/h	0	0	0	312	0	0	201	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1520	0	0	1520	0
Q Serve Time (g_s), s	0.0	0.0	0.0	5.1	0.0	0.0	4.4	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	5.1	0.0	0.0	4.4	0.0
Lane Grp Cap (c), veh/h	0	0	0	683	0	0	307	0
V/C Ratio (X)	0.00	0.00	0.00	0.46	0.00	0.00	0.65	0.00
Avail Cap (c_a), veh/h	0	0	0	1867	0	0	976	0
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	6.8	0.0	0.0	13.1	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.5	0.0	0.0	2.4	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	7.3	0.0	0.0	15.5	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	2.1	0.0	0.0	1.8	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.1	0.0	0.0	0.2	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	2.2	0.0	0.0	2.0	0.0

%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	0	18	0
Lane Assignment		T+R					R	
Lanes in Grp	0	1	0	0	0	0	1	0
Grp Vol (v), veh/h	0	365	0	0	0	0	87	0
Grp Sat Flow (s), veh/h/ln	0	1417	0	0	0	0	1292	0
Q Serve Time (g_s), s	0.0	8.4	0.0	0.0	0.0	0.0	2.1	0.0
Cycle Q Clear Time (g_c), s	0.0	8.4	0.0	0.0	0.0	0.0	2.1	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.13	0.00	0.00	0.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	464	0	0	0	0	261	0
V/C Ratio (X)	0.00	0.79	0.00	0.00	0.00	0.00	0.33	0.00
Avail Cap (c_a), veh/h	0	1503	0	0	0	0	830	0
Upstream Filter (I)	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	10.9	0.0	0.0	0.0	0.0	12.2	0.0
Incr Delay (d2), s/veh	0.0	3.0	0.0	0.0	0.0	0.0	0.7	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	13.9	0.0	0.0	0.0	0.0	13.0	0.0
1st-Term Q (Q1), veh/ln	0.0	3.2	0.0	0.0	0.0	0.0	0.7	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.4	0.0	0.0	0.0	0.0	0.1	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	3.6	0.0	0.0	0.0	0.0	0.8	0.0
%ile Storage Ratio (RQ%)	0.00	0.10	0.00	0.00	0.00	0.00	0.04	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	12.9
HCM 2010 LOS	B



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBR	SEL	SER
Lane Configurations										
Volume (veh/h)	126	287	0	0	185	80	291	45	0	0
Number	7	4	14	3	8	18	5	12		
Initial Q (Qb), veh	0	0	0	0	0	0	0	0		
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	1.00		
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Adj Sat Flow, veh/h/ln	1520	1520	0	0	1520	1520	1900	1900		
Adj Flow Rate, veh/h	137	312	0	0	201	87	0	49		
Adj No. of Lanes	1	1	0	0	1	1	0	0		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92		
Percent Heavy Veh, %	25	25	0	0	25	25	0	0		
Cap, veh/h	196	683	0	0	307	261	0	62		
Arrive On Green	0.14	0.45	0.00	0.00	0.20	0.20	0.00	0.33		
Sat Flow, veh/h	1448	1520	0	0	1520	1292	0	190		
Grp Volume(v), veh/h	137	312	0	0	201	87	0	365		
Grp Sat Flow(s),veh/h/ln	1448	1520	0	0	1520	1292	0	1417		
Q Serve(g_s), s	3.2	5.1	0.0	0.0	4.4	2.1	0.0	8.4		
Cycle Q Clear(g_c), s	3.2	5.1	0.0	0.0	4.4	2.1	0.0	8.4		
Prop In Lane	1.00		0.00	0.00		1.00	0.00	0.13		
Lane Grp Cap(c), veh/h	196	683	0	0	307	261	0	464		
V/C Ratio(X)	0.70	0.46	0.00	0.00	0.65	0.33	0.00	0.79		
Avail Cap(c_a), veh/h	687	1867	0	0	976	830	0	1503		
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	0.00	1.00		
Uniform Delay (d), s/veh	14.8	6.8	0.0	0.0	13.1	12.2	0.0	10.9		
Incr Delay (d2), s/veh	4.4	0.5	0.0	0.0	2.4	0.7	0.0	3.0		
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
%ile BackOfQ(50%),veh/ln	1.5	2.2	0.0	0.0	2.0	0.8	0.0	3.6		
LnGrp Delay(d),s/veh	19.2	7.3	0.0	0.0	15.5	13.0	0.0	13.9		
LnGrp LOS	B	A			B	B		B		
Approach Vol, veh/h		449			288		365			
Approach Delay, s/veh		10.9			14.7		13.9			
Approach LOS		B			B		B			

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4			7	8
Phs Duration (G+Y+Rc), s		15.7		20.1			8.9	11.2
Change Period (Y+Rc), s		4.0		4.0			4.0	4.0
Max Green Setting (Gmax), s		38.0		44.0			17.0	23.0
Max Q Clear Time (g_c+I1), s		10.4		7.1			5.2	6.4
Green Ext Time (p_c), s		1.4		1.6			1.3	0.9

Intersection Summary	
HCM 2010 Ctrl Delay	12.9
HCM 2010 LOS	B

Intersection	
Int Delay, s/veh	1.3

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	460	29	14	232	10	57
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	24	24	24	24	10	10
Mvmt Flow	500	32	15	252	11	62

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	532	0	799	516
Stage 1	-	-	-	-	516	-
Stage 2	-	-	-	-	283	-
Critical Hdwy	-	-	4.34	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.416	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	933	-	344	543
Stage 1	-	-	-	-	583	-
Stage 2	-	-	-	-	747	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	933	-	337	543
Mov Cap-2 Maneuver	-	-	-	-	337	-
Stage 1	-	-	-	-	583	-
Stage 2	-	-	-	-	733	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0.5	13.5
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	498	-	-	933	-
HCM Lane V/C Ratio	0.146	-	-	0.016	-
HCM Control Delay (s)	13.5	-	-	8.9	0
HCM Lane LOS	B	-	-	A	A
HCM 95th %tile Q(veh)	0.5	-	-	0.1	-

Intersection	
Int Delay, s/veh	2.4

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	22	43	87	781	147	108
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	8	8	8	8
Mvmt Flow	24	47	95	849	160	117

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	956	519	0	0	943	0
Stage 1	519	-	-	-	-	-
Stage 2	437	-	-	-	-	-
Critical Hdwy	6.5	6.3	-	-	4.18	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	-	-	2.272	-
Pot Cap-1 Maneuver	277	541	-	-	703	-
Stage 1	581	-	-	-	-	-
Stage 2	635	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	210	541	-	-	703	-
Mov Cap-2 Maneuver	210	-	-	-	-	-
Stage 1	581	-	-	-	-	-
Stage 2	481	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	17.7	0	6.7
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	353	703	-
HCM Lane V/C Ratio	-	-	0.2	0.227	-
HCM Control Delay (s)	-	-	17.7	11.6	0
HCM Lane LOS	-	-	C	B	A
HCM 95th %tile Q(veh)	-	-	0.7	0.9	-

Intersection	
Intersection Delay, s/veh	46.5
Intersection LOS	E

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	60	960	0	0	3	56	37	0	0	69	351
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	8	8	8	10	8	8	8	10	10	10	10
Mvmt Flow	0	65	1043	0	0	3	61	40	0	0	75	382
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	1	1	1
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	1	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	1	1
HCM Control Delay	61.9	11.7	25.5
HCM LOS	F	B	D

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	6%	3%	38%
Vol Thru, %	16%	94%	58%	62%
Vol Right, %	84%	0%	39%	0%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	420	1020	96	107
LT Vol	0	60	3	41
Through Vol	69	960	56	66
RT Vol	351	0	37	0
Lane Flow Rate	457	1109	104	116
Geometry Grp	1	1	1	1
Degree of Util (X)	0.758	1	0.202	0.239
Departure Headway (Hd)	5.98	6.16	6.958	7.401
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	603	599	519	487
Service Time	4.058	4.171	4.965	5.41
HCM Lane V/C Ratio	0.758	1.851	0.2	0.238
HCM Control Delay	25.5	61.9	11.7	12.7
HCM Lane LOS	D	F	B	B
HCM 95th-tile Q	6.8	14.8	0.7	0.9

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	41	66	0
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	10	10	10
Mvmt Flow	0	45	72	0
Number of Lanes	0	0	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	1
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	12.7
HCM LOS	B

Lane

Intersection	
Int Delay, s/veh	1.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NWL	NWR
Vol, veh/h	0	756	437	77	78	0	74	3	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	None	-	-
Storage Length	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	0	-	0	-
Grade, %	-	0	-	-	0	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	24	24	10	10
Mvmt Flow	0	822	475	84	85	0	80	3	0	0

Major/Minor	Major1			Major2			Minor2		
Conflicting Flow All	85	0	0	1297	0	0	1311	85	
Stage 1	-	-	-	-	-	-	252	-	
Stage 2	-	-	-	-	-	-	1059	-	
Critical Hdwy	4.2	-	-	4.2	-	-	6.64	6.44	
Critical Hdwy Stg 1	-	-	-	-	-	-	5.64	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	5.64	-	
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.716	3.516	
Pot Cap-1 Maneuver	1462	-	-	508	-	-	157	916	
Stage 1	-	-	-	-	-	-	741	-	
Stage 2	-	-	-	-	-	-	303	-	
Platoon blocked, %		-	-		-	-			
Mov Cap-1 Maneuver	1462	-	-	508	-	-	130	916	
Mov Cap-2 Maneuver	-	-	-	-	-	-	130	-	
Stage 1	-	-	-	-	-	-	612	-	
Stage 2	-	-	-	-	-	-	303	-	

Approach	EB	WB	SB
HCM Control Delay, s	0	6.7	9.3
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	1462	-	-	508	-	-	916
HCM Lane V/C Ratio	-	-	-	0.165	-	-	0.091
HCM Control Delay (s)	0	-	-	13.5	0	-	9.3
HCM Lane LOS	A	-	-	B	A	-	A
HCM 95th %tile Q(veh)	0	-	-	0.6	-	-	0.3

Intersection	
Int Delay, s/veh	0.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SEL	SET	SER	NWL	NWT	NWR
Vol, veh/h	4	533	0	0	35	33	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	24	24	24	24	24	24
Mvmt Flow	4	579	0	0	38	36	0	0	0	0	0	0

Major/Minor	Major1			Major2			Minor1		
Conflicting Flow All	74	0	0	579	0	0	644	662	579
Stage 1	-	-	-	-	-	-	588	588	-
Stage 2	-	-	-	-	-	-	56	74	-
Critical Hdwy	4.2	-	-	4.2	-	-	6.64	6.74	6.44
Critical Hdwy Stg 1	-	-	-	-	-	-	5.64	5.74	-
Critical Hdwy Stg 2	-	-	-	-	-	-	5.64	5.74	-
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.716	4.216	3.516
Pot Cap-1 Maneuver	1476	-	-	956	-	-	404	355	476
Stage 1	-	-	-	-	-	-	514	463	-
Stage 2	-	-	-	-	-	-	913	792	-
Platoon blocked, %		-	-		-	-			
Mov Cap-1 Maneuver	1476	-	-	956	-	-	402	0	476
Mov Cap-2 Maneuver	-	-	-	-	-	-	402	0	-
Stage 1	-	-	-	-	-	-	512	0	-
Stage 2	-	-	-	-	-	-	913	0	-

Approach	EB	WB	NW
HCM Control Delay, s	0.1	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NWLn1	EBL	EBT	EBR	WBL	WBT	WBR
Capacity (veh/h)	-	1476	-	-	956	-	-
HCM Lane V/C Ratio	-	0.003	-	-	-	-	-
HCM Control Delay (s)	0	7.4	0	-	0	-	-
HCM Lane LOS	A	A	A	-	A	-	-
HCM 95th %tile Q(veh)	-	0	-	-	0	-	-

Intersection	
Int Delay, s/veh	2.1

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	0	0	62	89	66	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	0	67	97	72	1

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	304	72	73	0	-	0
Stage 1	72	-	-	-	-	-
Stage 2	232	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	671	968	1477	-	-	-
Stage 1	931	-	-	-	-	-
Stage 2	788	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	639	968	1477	-	-	-
Mov Cap-2 Maneuver	639	-	-	-	-	-
Stage 1	931	-	-	-	-	-
Stage 2	750	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	0	3.1	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1477	-	-	-	-
HCM Lane V/C Ratio	0.046	-	-	-	-
HCM Control Delay (s)	7.6	0	0	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0.1	-	-	-	-

Intersection	
Int Delay, s/veh	0

Movement	NBL	NBT	SBT	SBR	SEL	SER
Vol, veh/h	0	115	63	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	0	125	68	0	0	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	68	0	-	0	193	68
Stage 1	-	-	-	-	68	-
Stage 2	-	-	-	-	125	-
Critical Hdwy	4.2	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.29	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1484	-	-	-	778	973
Stage 1	-	-	-	-	935	-
Stage 2	-	-	-	-	881	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1484	-	-	-	778	973
Mov Cap-2 Maneuver	-	-	-	-	778	-
Stage 1	-	-	-	-	935	-
Stage 2	-	-	-	-	881	-

Approach	NB	SB	SE
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBL	NBT	SELn1	SBT	SBR
Capacity (veh/h)	1484	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	0	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	-	-	-

Intersection	
Int Delay, s/veh	3.3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	53	30	738	120	6	655
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	8	8	8	8
Mvmt Flow	58	33	802	130	7	712

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1592	867	0	0	933	0
Stage 1	867	-	-	-	-	-
Stage 2	725	-	-	-	-	-
Critical Hdwy	6.5	6.3	-	-	4.18	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	-	-	2.272	-
Pot Cap-1 Maneuver	113	341	-	-	710	-
Stage 1	398	-	-	-	-	-
Stage 2	465	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	111	341	-	-	710	-
Mov Cap-2 Maneuver	111	-	-	-	-	-
Stage 1	398	-	-	-	-	-
Stage 2	458	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	62.2	0	0.1
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	147	710	-
HCM Lane V/C Ratio	-	-	0.614	0.009	-
HCM Control Delay (s)	-	-	62.2	10.1	0
HCM Lane LOS	-	-	F	B	A
HCM 95th %tile Q(veh)	-	-	3.3	0	-

Intersection	
Int Delay, s/veh	4.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NWL	NWR
Vol, veh/h	5	285	18	22	102	27	225	17	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	None	-	-
Storage Length	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	0	-	0	-
Grade, %	-	0	-	-	0	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	24	24	24	24
Mvmt Flow	5	310	20	24	111	29	245	18	0	0

Major/Minor	Major1			Major2			Minor2			
Conflicting Flow All	140	0	0	329	0	0	503	126		
Stage 1	-	-	-	-	-	-	173	-		
Stage 2	-	-	-	-	-	-	330	-		
Critical Hdwy	4.2	-	-	4.2	-	-	6.64	6.44		
Critical Hdwy Stg 1	-	-	-	-	-	-	5.64	-		
Critical Hdwy Stg 2	-	-	-	-	-	-	5.64	-		
Follow-up Hdwy	2.29	-	-	2.29	-	-	3.716	3.516		
Pot Cap-1 Maneuver	1395	-	-	1187	-	-	491	869		
Stage 1	-	-	-	-	-	-	807	-		
Stage 2	-	-	-	-	-	-	682	-		
Platoon blocked, %		-	-		-	-				
Mov Cap-1 Maneuver	1395	-	-	1187	-	-	478	869		
Mov Cap-2 Maneuver	-	-	-	-	-	-	478	-		
Stage 1	-	-	-	-	-	-	789	-		
Stage 2	-	-	-	-	-	-	679	-		

Approach	EB	WB	SB
HCM Control Delay, s	0.1	1.2	10.9
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	1395	-	-	1187	-	-	869
HCM Lane V/C Ratio	0.004	-	-	0.02	-	-	0.303
HCM Control Delay (s)	7.6	0	-	8.1	0	-	10.9
HCM Lane LOS	A	A	-	A	A	-	B
HCM 95th %tile Q(veh)	0	-	-	0.1	-	-	1.3

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NWL	NWR
Vol, veh/h	882	0	0	218	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	24	24
Mvmt Flow	959	0	0	237	0	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	959	0	1196	959
Stage 1	-	-	-	-	959	-
Stage 2	-	-	-	-	237	-
Critical Hdwy	-	-	4.2	-	6.64	6.44
Critical Hdwy Stg 1	-	-	-	-	5.64	-
Critical Hdwy Stg 2	-	-	-	-	5.64	-
Follow-up Hdwy	-	-	2.29	-	3.716	3.516
Pot Cap-1 Maneuver	-	-	686	-	186	284
Stage 1	-	-	-	-	340	-
Stage 2	-	-	-	-	753	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	686	-	186	284
Mov Cap-2 Maneuver	-	-	-	-	186	-
Stage 1	-	-	-	-	340	-
Stage 2	-	-	-	-	753	-

Approach	EB	WB	NW
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NWLn1	NWLn2	EBT	EBR	WBL	WBT
Capacity (veh/h)	-	-	-	-	686	-
HCM Lane V/C Ratio	-	-	-	-	-	-
HCM Control Delay (s)	0	0	-	-	0	-
HCM Lane LOS	A	A	-	-	A	-
HCM 95th %tile Q(veh)	-	-	-	-	0	-

Intersection	
Int Delay, s/veh	0.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	SBL	SBR	NEL	NER
Vol, veh/h	1	551	0	6	344	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	0	-	0	-
Grade, %	-	0	-	-	0	-	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	25	25	25	25	25	25	10	10	10	10
Mvmt Flow	1	599	0	7	374	0	0	0	0	0

Major/Minor	Major1			Major2			Minor2		Minor1	
Conflicting Flow All	374	0	0	599	0	0	988	374	988	599
Stage 1	-	-	-	-	-	-	387	-	601	-
Stage 2	-	-	-	-	-	-	601	-	387	-
Critical Hdwy	4.35	-	-	4.35	-	-	7.2	6.3	7.2	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	6.2	-	6.2	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.2	-	6.2	-
Follow-up Hdwy	2.425	-	-	2.425	-	-	3.59	3.39	3.59	3.39
Pot Cap-1 Maneuver	1069	-	-	875	-	-	219	655	219	487
Stage 1	-	-	-	-	-	-	621	-	474	-
Stage 2	-	-	-	-	-	-	474	-	621	-
Platoon blocked, %		-	-		-	-				
Mov Cap-1 Maneuver	1069	-	-	875	-	-	217	655	217	487
Mov Cap-2 Maneuver	-	-	-	-	-	-	217	-	217	-
Stage 1	-	-	-	-	-	-	620	-	474	-
Stage 2	-	-	-	-	-	-	474	-	615	-

Approach	EB	WB	SB	NE
HCM Control Delay, s	0	0.2	0	0
HCM LOS			A	A

Minor Lane/Major Mvmt	NELn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	-	1069	-	-	875	-	-	-
HCM Lane V/C Ratio	-	0.001	-	-	0.007	-	-	-
HCM Control Delay (s)	0	8.4	0	-	9.1	0	-	0
HCM Lane LOS	A	A	A	-	A	A	-	A
HCM 95th %tile Q(veh)	-	0	-	-	0	-	-	-

Intersection	
Intersection Delay, s/veh	8.2
Intersection LOS	A

Movement	NBU	NBT	NBR	SBU	SBL	SBT	SWU	SWL	SWR
Vol, veh/h	0	152	0	0	5	132	0	0	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	10	8	8	10	8	8	10	10	10
Mvmt Flow	0	165	0	0	5	143	0	0	0
Number of Lanes	0	1	0	0	0	1	0	0	1

Approach	NB	SB	SW
Opposing Approach	SB	NB	
Opposing Lanes	1	1	0
Conflicting Approach Left		SW	NB
Conflicting Lanes Left	0	1	1
Conflicting Approach Right	SW		SB
Conflicting Lanes Right	1	0	1
HCM Control Delay	8.2	8.1	0
HCM LOS	A	A	-

Lane	NBLn1	SBLn1	SWLn1
Vol Left, %	0%	4%	0%
Vol Thru, %	100%	96%	100%
Vol Right, %	0%	0%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	152	137	0
LT Vol	0	5	0
Through Vol	152	132	0
RT Vol	0	0	0
Lane Flow Rate	165	149	0
Geometry Grp	1	1	1
Degree of Util (X)	0.19	0.172	0
Departure Headway (Hd)	4.146	4.166	4.756
Convergence, Y/N	Yes	Yes	Yes
Cap	864	859	0
Service Time	2.179	2.202	2.756
HCM Lane V/C Ratio	0.191	0.173	0
HCM Control Delay	8.2	8.1	7.8
HCM Lane LOS	A	A	N
HCM 95th-tile Q	0.7	0.6	0

Intersection	
Int Delay, s/veh	0

Movement	NBT	NBR	SBL	SBT	SWL	SWR
Vol, veh/h	118	50	0	147	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	8	8	8	8	10	10
Mvmt Flow	128	54	0	160	0	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	183	0	315	155
Stage 1	-	-	-	-	155	-
Stage 2	-	-	-	-	160	-
Critical Hdwy	-	-	4.18	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.272	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	1357	-	662	870
Stage 1	-	-	-	-	854	-
Stage 2	-	-	-	-	850	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1357	-	662	870
Mov Cap-2 Maneuver	-	-	-	-	662	-
Stage 1	-	-	-	-	854	-
Stage 2	-	-	-	-	850	-

Approach	NB	SB	SW
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBT	NBR	SBL	SBT	SWLn1
Capacity (veh/h)	-	-	1357	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	-	-	0	-	0
HCM Lane LOS	-	-	A	-	A
HCM 95th %tile Q(veh)	-	-	0	-	-

Intersection	
Int Delay, s/veh	1.2

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	460	29	14	232	10	57
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	500	32	15	252	11	62

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	532	0	799	516
Stage 1	-	-	-	-	516	-
Stage 2	-	-	-	-	283	-
Critical Hdwy	-	-	4.2	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.39
Pot Cap-1 Maneuver	-	-	996	-	344	543
Stage 1	-	-	-	-	583	-
Stage 2	-	-	-	-	747	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	996	-	338	543
Mov Cap-2 Maneuver	-	-	-	-	338	-
Stage 1	-	-	-	-	583	-
Stage 2	-	-	-	-	734	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0.5	13
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	NBLn2	EBT	EBR	WBL	WBT
Capacity (veh/h)	338	543	-	-	996	-
HCM Lane V/C Ratio	0.032	0.114	-	-	0.015	-
HCM Control Delay (s)	16	12.5	-	-	8.7	0
HCM Lane LOS	C	B	-	-	A	A
HCM 95th %tile Q(veh)	0.1	0.4	-	-	0	-

Intersection	
Int Delay, s/veh	5.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	36	67	12	18	18	12	7	68	40	12	107	12
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	10	10	10	10	10	10
Mvmt Flow	39	73	13	20	20	13	8	74	43	13	116	13

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	276	282	123	303	266	96	129	0	0	117	0	0
Stage 1	149	149	-	111	111	-	-	-	-	-	-	-
Stage 2	127	133	-	192	155	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.2	6.6	6.3	4.2	-	-	4.2	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.59	4.09	3.39	2.29	-	-	2.29	-	-
Pot Cap-1 Maneuver	661	613	907	634	626	939	1409	-	-	1423	-	-
Stage 1	835	759	-	875	788	-	-	-	-	-	-	-
Stage 2	858	771	-	792	754	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	628	603	907	560	616	939	1409	-	-	1423	-	-
Mov Cap-2 Maneuver	628	603	-	560	616	-	-	-	-	-	-	-
Stage 1	830	751	-	870	783	-	-	-	-	-	-	-
Stage 2	820	766	-	698	746	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	12.1	11.1	0.5	0.7
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1409	-	-	633	647	1423	-	-
HCM Lane V/C Ratio	0.005	-	-	0.197	0.081	0.009	-	-
HCM Control Delay (s)	7.6	0	-	12.1	11.1	7.6	0	-
HCM Lane LOS	A	A	-	B	B	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.7	0.3	0	-	-

Intersection	
Int Delay, s/veh	0.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	2	2	7	5	10	6	4	403	5	0	313	18
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	362	-	-	401	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	22	22	22	22	22	22	25	25	25	25	25	25
Mvmt Flow	2	2	8	5	11	7	4	438	5	0	340	20

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	808	802	350	804	809	441	360	0	0	443	0	0
Stage 1	350	350	-	449	449	-	-	-	-	-	-	-
Stage 2	458	452	-	355	360	-	-	-	-	-	-	-
Critical Hdwy	7.32	6.72	6.42	7.32	6.72	6.42	4.35	-	-	4.35	-	-
Critical Hdwy Stg 1	6.32	5.72	-	6.32	5.72	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.32	5.72	-	6.32	5.72	-	-	-	-	-	-	-
Follow-up Hdwy	3.698	4.198	3.498	3.698	4.198	3.498	2.425	-	-	2.425	-	-
Pot Cap-1 Maneuver	277	295	650	279	293	576	1082	-	-	1005	-	-
Stage 1	627	599	-	552	540	-	-	-	-	-	-	-
Stage 2	546	538	-	623	593	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	265	294	650	273	292	576	1082	-	-	1005	-	-
Mov Cap-2 Maneuver	265	294	-	273	292	-	-	-	-	-	-	-
Stage 1	625	599	-	550	538	-	-	-	-	-	-	-
Stage 2	527	536	-	613	593	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	13.5	16.6	0.1	0
HCM LOS	B	C		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1082	-	-	438	333	1005	-	-
HCM Lane V/C Ratio	0.004	-	-	0.027	0.069	-	-	-
HCM Control Delay (s)	8.3	-	-	13.5	16.6	0	-	-
HCM Lane LOS	A	-	-	B	C	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0.2	0	-	-

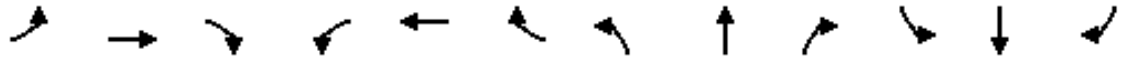
Intersection	
Int Delay, s/veh	1.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	3	680	35	8	328	9	4	18	10	10	6	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	12	12	12	12	12	12	10	10	10	10	10	10
Mvmt Flow	3	739	38	9	357	10	4	20	11	11	7	0

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	366	0	0	777	0	0	1147	1149	758	1159	1163	361
Stage 1	-	-	-	-	-	-	765	765	-	379	379	-
Stage 2	-	-	-	-	-	-	382	384	-	780	784	-
Critical Hdwy	4.22	-	-	4.22	-	-	7.2	6.6	6.3	7.2	6.6	6.3
Critical Hdwy Stg 1	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.2	5.6	-	6.2	5.6	-
Follow-up Hdwy	2.308	-	-	2.308	-	-	3.59	4.09	3.39	3.59	4.09	3.39
Pot Cap-1 Maneuver	1139	-	-	797	-	-	170	192	394	167	188	666
Stage 1	-	-	-	-	-	-	384	401	-	627	601	-
Stage 2	-	-	-	-	-	-	625	598	-	377	393	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1139	-	-	797	-	-	163	188	394	147	184	666
Mov Cap-2 Maneuver	-	-	-	-	-	-	163	188	-	147	184	-
Stage 1	-	-	-	-	-	-	382	399	-	624	593	-
Stage 2	-	-	-	-	-	-	609	590	-	347	391	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0	0.2	24.4	30.4
HCM LOS			C	D

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	220	1139	-	-	797	-	-	159
HCM Lane V/C Ratio	0.158	0.003	-	-	0.011	-	-	0.109
HCM Control Delay (s)	24.4	8.2	0	-	9.6	0	-	30.4
HCM Lane LOS	C	A	A	-	A	A	-	D
HCM 95th %tile Q(veh)	0.6	0	-	-	0	-	-	0.4



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	16	414	221	85	315	6	262	44	89	14	39	20
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1696	1696	1696	1696	1696	1900	1727	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	17	450	240	92	342	7	285	48	97	15	42	22
Adj No. of Lanes	1	1	1	1	1	0	1	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	12	12	12	12	12	12	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	281	816	693	114	626	13	319	161	326	62	71	33
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.17	0.48	0.48	0.07	0.38	0.38	0.19	0.32	0.32	0.08	0.08	0.08
Ln Grp Delay, s/veh	31.1	19.2	15.9	63.9	0.0	25.3	56.6	0.0	23.6	42.4	0.0	0.0
Ln Grp LOS	C	B	B	E		C	E		C	D		
Approach Vol, veh/h		707			441			430			79	
Approach Delay, s/veh		18.4			33.3			45.5			42.4	
Approach LOS		B			C			D			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4	5	6	8	7
Case No		4.0	2.0	3.0	2.0	8.0	4.0	2.0
Phs Duration (G+Y+Rc), s		32.4	10.4	47.3	21.5	10.9	38.0	19.6
Change Period (Y+Rc), s		4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green (Gmax), s		40.0	8.0	30.0	20.0	16.0	34.0	4.0
Max Allow Headway (MAH), s		4.2	4.1	4.1	4.1	4.2	4.0	4.1
Max Q Clear (g_c+I1), s		8.4	7.1	18.9	17.2	6.4	16.6	2.8
Green Ext Time (g_e), s		0.8	0.0	2.2	0.3	0.5	1.1	0.4
Prob of Phs Call (p_c)		1.00	0.90	1.00	1.00	1.00	1.00	0.35
Prob of Max Out (p_x)		0.00	1.00	0.00	1.00	0.03	0.00	1.00

Left-Turn Movement Data								
Assigned Mvmt			3		5	1		7
Mvmt Sat Flow, veh/h			1616		1645	190		1616

Through Movement Data								
Assigned Mvmt		2		4		6	8	
Mvmt Sat Flow, veh/h		511		1696		933	1657	

Right-Turn Movement Data								
Assigned Mvmt		12		14		16	18	
Mvmt Sat Flow, veh/h		1033		1442		433	34	

Left Lane Group Data								
Assigned Mvmt	0	0	3	0	5	1	0	7
Lane Assignment			(Prot)		(Prot)	L+T+R		(Prot)
Lanes in Grp	0	0	1	0	1	1	0	1

Grp Vol (v), veh/h	0	0	92	0	285	79	0	17
Grp Sat Flow (s), veh/h/ln	0	0	1616	0	1645	1555	0	1616
Q Serve Time (g_s), s	0.0	0.0	5.1	0.0	15.2	2.0	0.0	0.8
Cycle Q Clear Time (g_c), s	0.0	0.0	5.1	0.0	15.2	4.4	0.0	0.8
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	1263	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	0.00	1.00	0.00	1.00	0.19	0.00	1.00
Lane Grp Cap (c), veh/h	0	0	114	0	319	167	0	281
V/C Ratio (X)	0.00	0.00	0.81	0.00	0.89	0.47	0.00	0.06
Avail Cap (c_a), veh/h	0	0	144	0	366	319	0	281
Upstream Filter (I)	0.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	0.0	41.2	0.0	35.3	40.3	0.0	31.1
Incr Delay (d2), s/veh	0.0	0.0	22.7	0.0	21.2	2.1	0.0	0.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	63.9	0.0	56.6	42.4	0.0	31.1
1st-Term Q (Q1), veh/ln	0.0	0.0	2.2	0.0	6.9	1.9	0.0	0.4
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.7	0.0	1.9	0.1	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	0.0	3.0	0.0	8.8	2.0	0.0	0.4
%ile Storage Ratio (RQ%)	0.00	0.00	0.83	0.00	1.45	0.03	0.00	0.12
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	8	0
Lane Assignment				T				
Lanes in Grp	0	0	0	1	0	0	0	0
Grp Vol (v), veh/h	0	0	0	450	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	1696	0	0	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	16.9	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	16.9	0.0	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	816	0	0	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	816	0	0	0	0
Upstream Filter (I)	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	16.5	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	19.2	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	7.9	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	8.5	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	18	0
Lane Assignment		T+R		R			T+R	
Lanes in Grp	0	1	0	1	0	0	1	0
Grp Vol (v), veh/h	0	145	0	240	0	0	349	0
Grp Sat Flow (s), veh/h/ln	0	1545	0	1442	0	0	1690	0
Q Serve Time (g_s), s	0.0	6.4	0.0	9.3	0.0	0.0	14.6	0.0
Cycle Q Clear Time (g_c), s	0.0	6.4	0.0	9.3	0.0	0.0	14.6	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.67	0.00	1.00	0.00	0.28	0.02	0.00
Lane Grp Cap (c), veh/h	0	487	0	693	0	0	639	0
V/C Ratio (X)	0.00	0.30	0.00	0.35	0.00	0.00	0.55	0.00
Avail Cap (c_a), veh/h	0	687	0	693	0	0	639	0
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	23.3	0.0	14.6	0.0	0.0	22.0	0.0
Incr Delay (d2), s/veh	0.0	0.3	0.0	1.4	0.0	0.0	3.3	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	23.6	0.0	15.9	0.0	0.0	25.3	0.0
1st-Term Q (Q1), veh/ln	0.0	2.7	0.0	3.7	0.0	0.0	6.8	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.3	0.0	0.0	0.6	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	2.7	0.0	4.0	0.0	0.0	7.4	0.0
%ile Storage Ratio (RQ%)	0.00	0.01	0.00	1.38	0.00	0.00	0.11	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	30.5
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	16	414	221	85	315	6	262	44	89	14	39	20
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1696	1696	1696	1696	1696	1900	1727	1727	1900	1900	1727	1900
Adj Flow Rate, veh/h	17	450	240	92	342	7	285	48	97	15	42	22
Adj No. of Lanes	1	1	1	1	1	0	1	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	12	12	12	12	12	12	10	10	10	10	10	10
Cap, veh/h	281	816	693	114	626	13	319	161	326	62	71	33
Arrive On Green	0.17	0.48	0.48	0.07	0.38	0.38	0.19	0.32	0.32	0.08	0.08	0.08
Sat Flow, veh/h	1616	1696	1442	1616	1657	34	1645	511	1033	190	933	433
Grp Volume(v), veh/h	17	450	240	92	0	349	285	0	145	79	0	0
Grp Sat Flow(s),veh/h/ln	1616	1696	1442	1616	0	1690	1645	0	1545	1555	0	0
Q Serve(g_s), s	0.8	16.9	9.3	5.1	0.0	14.6	15.2	0.0	6.4	2.0	0.0	0.0
Cycle Q Clear(g_c), s	0.8	16.9	9.3	5.1	0.0	14.6	15.2	0.0	6.4	4.4	0.0	0.0
Prop In Lane	1.00		1.00	1.00		0.02	1.00		0.67	0.19		0.28
Lane Grp Cap(c), veh/h	281	816	693	114	0	639	319	0	487	167	0	0
V/C Ratio(X)	0.06	0.55	0.35	0.81	0.00	0.55	0.89	0.00	0.30	0.47	0.00	0.00
Avail Cap(c_a), veh/h	281	816	693	144	0	639	366	0	687	319	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	31.1	16.5	14.6	41.2	0.0	22.0	35.3	0.0	23.3	40.3	0.0	0.0
Incr Delay (d2), s/veh	0.1	2.7	1.4	22.7	0.0	3.3	21.2	0.0	0.3	2.1	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	8.5	4.0	3.0	0.0	7.4	8.8	0.0	2.7	2.0	0.0	0.0
LnGrp Delay(d),s/veh	31.1	19.2	15.9	63.9	0.0	25.3	56.6	0.0	23.6	42.4	0.0	0.0
LnGrp LOS	C	B	B	E		C	E		C	D		
Approach Vol, veh/h		707			441			430			79	
Approach Delay, s/veh		18.4			33.3			45.5			42.4	
Approach LOS		B			C			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s		32.4	10.4	47.3	21.5	10.9	19.6	38.0
Change Period (Y+Rc), s		4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s		40.0	8.0	30.0	20.0	16.0	4.0	34.0
Max Q Clear Time (g_c+I1), s		8.4	7.1	18.9	17.2	6.4	2.8	16.6
Green Ext Time (p_c), s		0.8	0.0	2.2	0.3	0.5	0.4	1.1

Intersection Summary	
HCM 2010 Ctrl Delay	30.5
HCM 2010 LOS	C

Intersection	
Int Delay, s/veh	59.8

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	90	359	39	50	362	13	22	64	16	10	161	139
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	136	-	-	135	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	30	30	30	30	30	30	14	14	14	14	14	14
Mvmt Flow	98	390	42	54	393	14	24	70	17	11	175	151

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	408	0	0	433	0	0	1279	1123	411	1160	1137	401
Stage 1	-	-	-	-	-	-	607	607	-	509	509	-
Stage 2	-	-	-	-	-	-	672	516	-	651	628	-
Critical Hdwy	4.4	-	-	4.4	-	-	7.24	6.64	6.34	7.24	6.64	6.34
Critical Hdwy Stg 1	-	-	-	-	-	-	6.24	5.64	-	6.24	5.64	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.24	5.64	-	6.24	5.64	-
Follow-up Hdwy	2.47	-	-	2.47	-	-	3.626	4.126	3.426	3.626	4.126	3.426
Pot Cap-1 Maneuver	1015	-	-	992	-	-	135	195	616	163	192	624
Stage 1	-	-	-	-	-	-	463	468	-	525	519	-
Stage 2	-	-	-	-	-	-	426	515	-	438	458	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1015	-	-	992	-	-	-	167	616	96 ~	164	624
Mov Cap-2 Maneuver	-	-	-	-	-	-	-	167	-	96 ~	164	-
Stage 1	-	-	-	-	-	-	418	423	-	474	491	-
Stage 2	-	-	-	-	-	-	196	487	-	321	414	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	1.6	1		251.9
HCM LOS			-	F

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	-	1015	-	-	992	-	-	237
HCM Lane V/C Ratio	-	0.096	-	-	0.055	-	-	1.422
HCM Control Delay (s)	-	8.9	-	-	8.8	-	-	251.9
HCM Lane LOS	-	A	-	-	A	-	-	F
HCM 95th %tile Q(veh)	-	0.3	-	-	0.2	-	-	19.1

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Intersection	
Int Delay, s/veh	4.8

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Vol, veh/h	169	137	62	326	113	111
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	30	30	30	30	30	30
Mvmt Flow	184	149	67	354	123	121

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	333	0	747	258
Stage 1	-	-	-	-	258	-
Stage 2	-	-	-	-	489	-
Critical Hdwy	-	-	4.4	-	6.7	6.5
Critical Hdwy Stg 1	-	-	-	-	5.7	-
Critical Hdwy Stg 2	-	-	-	-	5.7	-
Follow-up Hdwy	-	-	2.47	-	3.77	3.57
Pot Cap-1 Maneuver	-	-	1085	-	343	717
Stage 1	-	-	-	-	724	-
Stage 2	-	-	-	-	563	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1085	-	317	717
Mov Cap-2 Maneuver	-	-	-	-	317	-
Stage 1	-	-	-	-	724	-
Stage 2	-	-	-	-	520	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.4	17.3
HCM LOS			C

Minor Lane/Major Mvmt	NBLn1	NBLn2	EBT	EBR	WBL	WBT
Capacity (veh/h)	317	717	-	-	1085	-
HCM Lane V/C Ratio	0.387	0.168	-	-	0.062	-
HCM Control Delay (s)	23.4	11	-	-	8.5	0
HCM Lane LOS	C	B	-	-	A	A
HCM 95th %tile Q(veh)	1.8	0.6	-	-	0.2	-

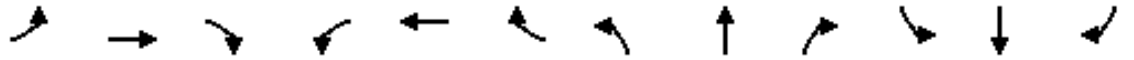
Intersection	
Int Delay, s/veh	2.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	14	4	30	31	8	1	25	291	8	1	319	4
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	220	-	-	238	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10	20	20	20	20	20	20
Mvmt Flow	15	4	33	34	9	1	27	316	9	1	347	4

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	731	730	349	745	728	321	351	0	0	325	0	0
Stage 1	351	351	-	375	375	-	-	-	-	-	-	-
Stage 2	380	379	-	370	353	-	-	-	-	-	-	-
Critical Hdwy	7.2	6.6	6.3	7.2	6.6	6.3	4.3	-	-	4.3	-	-
Critical Hdwy Stg 1	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.2	5.6	-	6.2	5.6	-	-	-	-	-	-	-
Follow-up Hdwy	3.59	4.09	3.39	3.59	4.09	3.39	2.38	-	-	2.38	-	-
Pot Cap-1 Maneuver	327	340	677	320	341	702	1114	-	-	1140	-	-
Stage 1	649	618	-	630	603	-	-	-	-	-	-	-
Stage 2	626	601	-	634	617	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	314	331	677	296	332	702	1114	-	-	1140	-	-
Mov Cap-2 Maneuver	314	331	-	296	332	-	-	-	-	-	-	-
Stage 1	633	617	-	615	588	-	-	-	-	-	-	-
Stage 2	601	586	-	599	616	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	13.5	18.7	0.6	0
HCM LOS	B	C		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1114	-	-	475	307	1140	-	-
HCM Lane V/C Ratio	0.024	-	-	0.11	0.142	0.001	-	-
HCM Control Delay (s)	8.3	-	-	13.5	18.7	8.2	-	-
HCM Lane LOS	A	-	-	B	C	A	-	-
HCM 95th %tile Q(veh)	0.1	-	-	0.4	0.5	0	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	9	150	224	70	106	139	77	552	41	67	494	15
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1727	1900	1900	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	10	163	243	76	115	151	84	600	45	73	537	16
Adj No. of Lanes	0	1	0	0	1	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	46	209	300	113	156	174	571	701	52	523	642	19
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.32	0.32	0.32	0.32	0.32	0.32	0.35	0.23	0.23	0.32	0.20	0.20
Ln Grp Delay, s/veh	31.5	0.0	0.0	33.0	0.0	0.0	20.3	54.9	54.7	22.0	56.6	56.1
Ln Grp LOS	C			C			C	D	D	C	E	E
Approach Vol, veh/h		416			342			729			626	
Approach Delay, s/veh		31.5			33.0			50.8			52.3	
Approach LOS		C			C			D			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	2	1		4	6	5		8
Case No	4.0	2.0		8.0	4.0	2.0		8.0
Phs Duration (G+Y+Rc), s	24.4	32.6		33.0	21.7	35.2		33.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green (Gmax), s	27.0	13.0		38.0	26.0	14.0		38.0
Max Allow Headway (MAH), s	4.0	4.1		4.3	4.0	4.1		4.3
Max Q Clear (g_c+I1), s	18.8	4.9		23.7	16.3	5.2		26.4
Green Ext Time (g_e), s	1.6	0.3		2.8	1.4	0.3		2.6
Prob of Phs Call (p_c)	1.00	0.84		1.00	1.00	0.88		1.00
Prob of Max Out (p_x)	0.26	0.04		0.09	0.12	0.02		0.17

Left-Turn Movement Data								
Assigned Mvmt		1		7		5		3
Mvmt Sat Flow, veh/h		1645		15		1645		197

Through Movement Data								
Assigned Mvmt	2			4	6			8
Mvmt Sat Flow, veh/h	3095			647	3254			484

Right-Turn Movement Data								
Assigned Mvmt	12			14	16			18
Mvmt Sat Flow, veh/h	232			930	97			539

Left Lane Group Data								
Assigned Mvmt	0	1	0	7	0	5	0	3
Lane Assignment		(Prot)		L+T+R		(Prot)		L+T+R
Lanes in Grp	0	1	0	1	0	1	0	1

Grp Vol (v), veh/h	0	73	0	416	0	84	0	342
Grp Sat Flow (s), veh/h/ln	0	1645	0	1592	0	1645	0	1220
Q Serve Time (g_s), s	0.0	2.9	0.0	0.0	0.0	3.2	0.0	2.8
Cycle Q Clear Time (g_c), s	0.0	2.9	0.0	21.7	0.0	3.2	0.0	24.4
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	1131	0	0	0	995
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	1704	0	0	0	1013
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	29.0	0.0	0.0	0.0	29.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	4.6	0.0	0.0	0.0	7.4
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
Time to First Blk (g_f), s	0.0	0.0	0.0	18.3	0.0	0.0	0.0	6.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	18.3	0.0	0.0	0.0	6.0
Prop LT Inside Lane (P_L)	0.00	1.00	0.00	0.02	0.00	1.00	0.00	0.22
Lane Grp Cap (c), veh/h	0	523	0	554	0	571	0	442
V/C Ratio (X)	0.00	0.14	0.00	0.75	0.00	0.15	0.00	0.77
Avail Cap (c_a), veh/h	0	523	0	708	0	571	0	577
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	21.9	0.0	28.1	0.0	20.2	0.0	28.2
Incr Delay (d2), s/veh	0.0	0.1	0.0	3.4	0.0	0.1	0.0	4.8
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	22.0	0.0	31.5	0.0	20.3	0.0	33.0
1st-Term Q (Q1), veh/ln	0.0	1.3	0.0	9.5	0.0	1.4	0.0	8.1
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.6
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.3	0.0	10.0	0.0	1.4	0.0	8.7
%ile Storage Ratio (RQ%)	0.00	0.15	0.00	0.01	0.00	0.21	0.00	0.01
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	6	0	0	8
Lane Assignment	T				T			
Lanes in Grp	1	0	0	0	1	0	0	0
Grp Vol (v), veh/h	318	0	0	0	271	0	0	0
Grp Sat Flow (s), veh/h/ln	1641	0	0	0	1641	0	0	0
Q Serve Time (g_s), s	16.7	0.0	0.0	0.0	14.3	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	16.7	0.0	0.0	0.0	14.3	0.0	0.0	0.0
Lane Grp Cap (c), veh/h	371	0	0	0	324	0	0	0
V/C Ratio (X)	0.86	0.00	0.00	0.00	0.84	0.00	0.00	0.00
Avail Cap (c_a), veh/h	492	0	0	0	474	0	0	0
Upstream Filter (I)	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	33.4	0.0	0.0	0.0	34.7	0.0	0.0	0.0
Incr Delay (d2), s/veh	21.5	0.0	0.0	0.0	21.9	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	54.9	0.0	0.0	0.0	56.6	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	7.6	0.0	0.0	0.0	6.5	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	2.2	0.0	0.0	0.0	2.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	9.8	0.0	0.0	0.0	8.4	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.08	0.00	0.00	0.00	0.21	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	12	0	0	14	16	0	0	18
Lane Assignment	T+R				T+R			
Lanes in Grp	1	0	0	0	1	0	0	0
Grp Vol (v), veh/h	327	0	0	0	282	0	0	0
Grp Sat Flow (s), veh/h/ln	1686	0	0	0	1710	0	0	0
Q Serve Time (g_s), s	16.8	0.0	0.0	0.0	14.3	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	16.8	0.0	0.0	0.0	14.3	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.14	0.00	0.00	0.58	0.06	0.00	0.00	0.44
Lane Grp Cap (c), veh/h	382	0	0	0	337	0	0	0
V/C Ratio (X)	0.86	0.00	0.00	0.00	0.84	0.00	0.00	0.00
Avail Cap (c_a), veh/h	506	0	0	0	494	0	0	0
Upstream Filter (I)	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	33.4	0.0	0.0	0.0	34.7	0.0	0.0	0.0
Incr Delay (d2), s/veh	21.3	0.0	0.0	0.0	21.3	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	54.7	0.0	0.0	0.0	56.1	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	7.8	0.0	0.0	0.0	6.7	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	2.3	0.0	0.0	0.0	2.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
%ile Back of Q (50%), veh/ln	10.1	0.0	0.0	0.0	8.7	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.09	0.00	0.00	0.00	0.21	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	44.6
HCM 2010 LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	9	150	224	70	106	139	77	552	41	67	494	15
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1727	1900	1900	1727	1900	1727	1727	1900	1727	1727	1900
Adj Flow Rate, veh/h	10	163	243	76	115	151	84	600	45	73	537	16
Adj No. of Lanes	0	1	0	0	1	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	46	209	300	113	156	174	571	701	52	523	642	19
Arrive On Green	0.32	0.32	0.32	0.32	0.32	0.32	0.35	0.23	0.23	0.32	0.20	0.20
Sat Flow, veh/h	15	647	930	197	484	539	1645	3095	232	1645	3254	97
Grp Volume(v), veh/h	416	0	0	342	0	0	84	318	327	73	271	282
Grp Sat Flow(s),veh/h/ln	1592	0	0	1220	0	0	1645	1641	1686	1645	1641	1710
Q Serve(g_s), s	0.0	0.0	0.0	2.8	0.0	0.0	3.2	16.7	16.8	2.9	14.3	14.3
Cycle Q Clear(g_c), s	21.7	0.0	0.0	24.4	0.0	0.0	3.2	16.7	16.8	2.9	14.3	14.3
Prop In Lane	0.02		0.58	0.22		0.44	1.00		0.14	1.00		0.06
Lane Grp Cap(c), veh/h	554	0	0	442	0	0	571	371	382	523	324	337
V/C Ratio(X)	0.75	0.00	0.00	0.77	0.00	0.00	0.15	0.86	0.86	0.14	0.84	0.84
Avail Cap(c_a), veh/h	708	0	0	577	0	0	571	492	506	523	474	494
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	28.1	0.0	0.0	28.2	0.0	0.0	20.2	33.4	33.4	21.9	34.7	34.7
Incr Delay (d2), s/veh	3.4	0.0	0.0	4.8	0.0	0.0	0.1	21.5	21.3	0.1	21.9	21.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.0	0.0	8.7	0.0	0.0	1.4	9.8	10.1	1.3	8.4	8.7
LnGrp Delay(d),s/veh	31.5	0.0	0.0	33.0	0.0	0.0	20.3	54.9	54.7	22.0	56.6	56.1
LnGrp LOS	C			C			C	D	D	C	E	E
Approach Vol, veh/h		416			342			729			626	
Approach Delay, s/veh		31.5			33.0			50.8			52.3	
Approach LOS		C			C			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	32.6	24.4		33.0	35.2	21.7		33.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	28.6	20.4		29.0	31.2	17.7		29.0
Max Q Clear Time (g_c+I1), s	4.9	18.8		23.7	5.2	16.3		26.4
Green Ext Time (p_c), s	0.3	1.6		2.8	0.3	1.4		2.6

Intersection Summary	
HCM 2010 Ctrl Delay	44.6
HCM 2010 LOS	D

Intersection	
Int Delay, s/veh	3.2

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Vol, veh/h	3	174	102	418	556	14
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	20	331	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	10	10	10	10	10	10
Mvmt Flow	3	189	111	454	604	15

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1288	612	620	0	-	0
Stage 1	612	-	-	-	-	-
Stage 2	676	-	-	-	-	-
Critical Hdwy	6.5	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.5	-	-	-	-	-
Critical Hdwy Stg 2	5.5	-	-	-	-	-
Follow-up Hdwy	3.59	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	174	479	923	-	-	-
Stage 1	526	-	-	-	-	-
Stage 2	491	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	153	479	923	-	-	-
Mov Cap-2 Maneuver	153	-	-	-	-	-
Stage 1	526	-	-	-	-	-
Stage 2	432	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	17.5	1.9	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	923	-	153	479	-	-
HCM Lane V/C Ratio	0.12	-	0.021	0.395	-	-
HCM Control Delay (s)	9.4	-	29	17.3	-	-
HCM Lane LOS	A	-	D	C	-	-
HCM 95th %tile Q(veh)	0.4	-	0.1	1.9	-	-

Intersection	
Int Delay, s/veh	5.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	0	66	143	47	103	0	161	0	48	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	0	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	30	30	30	30	30	30	30	30	30	30	30	30
Mvmt Flow	0	72	155	51	112	0	175	0	52	0	0	0

Major/Minor	Major1			Major2			Minor1		
Conflicting Flow All	112	0	0	227	0	0	363	363	149
Stage 1	-	-	-	-	-	-	149	149	-
Stage 2	-	-	-	-	-	-	214	214	-
Critical Hdwy	4.4	-	-	4.4	-	-	6.7	6.8	6.5
Critical Hdwy Stg 1	-	-	-	-	-	-	5.7	5.8	-
Critical Hdwy Stg 2	-	-	-	-	-	-	5.7	5.8	-
Follow-up Hdwy	2.47	-	-	2.47	-	-	3.77	4.27	3.57
Pot Cap-1 Maneuver	1320	-	-	1193	-	-	584	523	829
Stage 1	-	-	-	-	-	-	815	723	-
Stage 2	-	-	-	-	-	-	760	676	-
Platoon blocked, %		-	-		-	-			
Mov Cap-1 Maneuver	1320	-	-	1193	-	-	557	0	829
Mov Cap-2 Maneuver	-	-	-	-	-	-	557	0	-
Stage 1	-	-	-	-	-	-	815	0	-
Stage 2	-	-	-	-	-	-	725	0	-

Approach	EB	WB	NB
HCM Control Delay, s	0	2.6	13.3
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	NBLn2	EBL	EBT	EBR	WBL	WBT	WBR
Capacity (veh/h)	557	829	1320	-	-	1193	-	-
HCM Lane V/C Ratio	0.314	0.063	-	-	-	0.043	-	-
HCM Control Delay (s)	14.4	9.6	0	-	-	8.2	0	-
HCM Lane LOS	B	A	A	-	-	A	A	-
HCM 95th %tile Q(veh)	1.3	0.2	0	-	-	0.1	-	-

Pavement Condition Improvement Table

Oil and Gas EIR
TRANSPORTATION STUDY

PAVEMENT CONDITION IMPROVEMENT TABLE
LEGEND

Roadway Segment: County road or state route segment included within the scope of the study.

Proj AADT: Daily oil/gas traffic volume estimate for the year 2014.

2014 AADT: Annual average daily traffic volume for the year 2014.

Trucks: Percent of 2014 AADT assumed to be heavy trucks.

Urban: Percent truck volume assumed for roadway segments in urban settings.

Type: Roadway type for state routes (F=Freeway and H=Highway) and county roads (A=Arterial and C=Collector).

Subregion: Study area subregion (W=Western, C=Central and E=Eastern).

No. Lanes: Total number of travel lanes (both directions).

Estimated 20-yr TI: Twenty-year Traffic Index (TI) assigned to each roadway segment.

Estimated Max ESAL: Maximum Equivalent Single-Axle Load (ESAL) for corresponding 20-year TI.

Life: Estimate of percent remaining pavement service life based on 2013 pavement condition data and study pavement life cycle curve.

ESAL 2014: ESAL for the year 2014 estimated as the product of percent remaining pavement service life and maximum ESAL.

ESAL 2015 through ESAL 2035: As defined below, color shading of the cells in these columns denotes the type of pavement condition improvement scheduled.

NONE: No pavement condition improvement scheduled
GREEN: Preventive maintenance scheduled
BLUE: Corrective maintenance scheduled
ORANGE: Major rehabilitation scheduled
RED: Roadway reconstruction scheduled
GREY/BLACK: Pavement condition improvement deferred

PAVEMENT CONDITION IMPROVEMENT TABLE

Roadway Segment	Proj ADT	2014 ADT	Trucks	Urban	Type	Rural	Sub Lanes	No. 20yr-TI	Estimated Max ESAL	Estimated Life	2014 ESAL	2015 ESAL	2016 ESAL	2017 ESAL	2018 ESAL	2019 ESAL	2020 ESAL	2021 ESAL	2022 ESAL	2023 ESAL	2024 ESAL	2025 ESAL	2026 ESAL	2027 ESAL	2028 ESAL	2029 ESAL	2030 ESAL	2031 ESAL	2032 ESAL	2033 ESAL	2034 ESAL	2035 ESAL
Gosford Rd: SR 119 (Taft Hwy) - McCutchen Rd	0	5,800	5%		C	C	8		487,000	16.5%	80404	R,1980000,16.5%,100.%																				
Gosford Rd: McCutchen Rd - Panama Ln	0	4,809	5%		C	C	8		487,000	16.5%	80404	M,6350000,16.5%,50.%																				
Gosford Rd: Panama Ln - Pacheco Rd	0	14,629	5%		C	C	8		487,000	16.5%	80404	M,32000000,16.5%,100.%																				
Gosford Rd: Pacheco Rd - White Ln	0	20,111	5%		A	C	6	9.5	1,980,000	16.5%	326898	M,32000000,16.5%,100.%																				
Gosford Rd: White Ln - S Laurelglen Blvd	0	30,929	3%		A	C	6	9.5	1,980,000	16.5%	326898	M,32000000,16.5%,100.%																				
Gosford Rd: S Laurelglen Blvd - N Laurelglen Blvd	0	30,929	3%	U	A	C	6	9.5	1,980,000	16.5%	326898	M,32000000,16.5%,100.%																				
Gosford Rd: N Laurelglen Blvd - Ming Ave	0	29,635	3%	U	A	C	6	9.5	1,980,000	16.5%	326898	M,32000000,16.5%,100.%																				
Gosford Rd: Ming Ave - Stockdale Hwy	0	35,627	3%	U	A	C	6	9.5	1,980,000	16.5%	326898	M,32000000,16.5%,100.%																				
Granite Rd: James Rd - N Chester Ave Ext	197	3,052	10%		E	C	8		487,000	25.0%	80404	R,1270000,5.39%,9.100%																				
Granite Rd: N Chester Ave Ext - Round Mountain Rd	197	3,052	10%		E	C	8		487,000	25.0%	80404	M,6300,5.39%,9.100%																				
Granite Rd: Round Mountain Rd - Garcia Rd	92	361	10%		E	C	8		487,000	25.0%	121896	R,14400,13.89%,4.8%																				
Granite Rd: Garcia Rd - Famoso Rd	92	361	10%		E	C	8		487,000	25.0%	121896	R,14400,13.89%,4.8%																				
Granite Rd: Famoso Rd - Pine Mountain Rd	92	361	10%		E	C	8		487,000	25.0%	121896	R,14400,13.89%,4.8%																				
Hill Rd: S Lake Rd - Millux Rd	0	843	15%		W	C	8		487,000	25.0%	121896	R,1948000,19.8%,40%																				
Hill Rd: Millux - Peet Rd	0	810	15%		W	C	8		487,000	25.0%	121896	R,1948000,19.8%,40%																				
Klipstein Canyon Rd: Cerro Noroeste Rd - SR 166	0	52	15%		W	B	8		487,000	16.5%	80404																					
Lost Hills Rd: Peet Rd - Lerdo Hwy	0	1,305	15%		W	C	8		487,000	25.0%	121896	R,4870000,19.8%,100.%																				
Lost Hills Rd: Lokern Rd - SR 33	350	1,030	15%		W	C	8		487,000	25.0%	40226	R,2980000,17.85%,100.%																				
Lost Hills Rd: SR 33 - Stockton Rd	370	1,030	15%		W	C	8		487,000	25.0%	121896	R,1948000,19.8%,100.%																				
Lost Hills Rd: 7th Standard Rd - Lerdo Hwy	875	1,030	15%		W	C	8		487,000	25.0%	121896	R,1948000,44.37%,8.40%																				
Lost Hills Rd: Lerdo Hwy - SR 46	875	4,451	15%		W	C	8		487,000	25.0%	121896	R,4500000,12.0%,5.100%																				
Lost Hills Rd: SR 46 - Fasselman Rd	0	52	15%		W	C	8		487,000	20.8%	80404																					
Lost Hills Rd: Twisselman Rd - County Line Rd	0	52	15%		W	C	8		487,000	16.5%	80404																					
Magnolia Ave: 7th Standard - Buttonbush St	0	1,127	5%		W	C	8		487,000	25.0%	121896	R,1948000,19.8%,40%																				
Magnolia Ave: Burbank St - SR 46	0	561	5%		W	C	8		487,000	25.0%	121896	R,1948000,19.8%,40%																				
Main Drain Rd: 7th Standard Rd - Lerdo Hwy	0	177	15%		W	C	8		487,000	25.0%	182012																					
Main Drain Rd: Lerdo Hwy - Twisselman S	0	104	15%		W	C	8		487,000	25.0%	182012																					
Main Drain Rd: Interstate 5 - SR 46	0	561	5%		W	C	8		487,000	25.0%	182012																					
Malaga Rd: Panama Ln - Muller Rd	0	640	10%		C	C	8		487,000	25.0%	121896	R,1948000,19.8%,40%																				
Mohawk St: Westside Parkway - SR 58 (Rosedale Hwy)	57	10,000	3%	U	C	E	6	9.5	1,980,000	17.4%	740009																					
Morning Dr: Niles St - College Dr	0	1,100	3%	U	C	E	4		487,000	17.4%	182012																					
Morning Dr: College Ave - Highland Knolls Dr	0	1,100	3%	U	C	E	4		487,000	22.3%	108404	R,1948000,16.8%,40%																				
Morning Dr: Highland Knolls Dr - SR 178	0	500	3%	U	C	E	4		487,000	17.4%	152991																					
N Access Rd: Skyline Dr - Rosedale Hwy	0	350	20%		W	C	4		487,000	25.0%	121896	M,2450000,41.6%,50%																				
N Chester Ave: China Grade Loop - Merle Haggard Dr	0	11,448	10%		A	E	9.5		1,980,000	25.0%	326898	R,4500000,16.5%,100.%																				
N Chester Ave: Ming Ave - Stockdale Hwy	0	11,448	10%		A	E	9.5		1,980,000	25.0%	326898	R,4500000,16.5%,100.%																				
Oilfield Rd: James Rd - N of James Rd	0	453	10%		W	C	6		487,000	25.0%	121896	R,1948000,62.63%,40%																				
Old River Rd: SR 166 (Maricopa Hwy) - Copus Rd	0	814	2,354	15%		W	C	8		487,000	25.0%	121896	M,9900000,17.97%,5.00%																				
Old River Rd: Copus Rd - Interstate 5	0	814	2,354	15%		W	C	8		487,000	25.0%	121896	M,9900000,17.97%,5.00%																				
Old River Rd: Interstate 5 - SR 223 (Bear Mtn Blvd)	0	814	5,847	5%		W	C	8		487,000	25.0%	121896	M,6350000,25.54%,9.50%																				
Old River Rd: SR 223 (Bear Mtn Blvd) - SR 119 (Taft Hwy)	0	814	3,666	5%		W	C	8		487,000	25.0%	121896	M,6350000,25.54%,9.50%																				
Old River Rd: SR 119 (Taft Hwy) - McCutchen Rd	0	814	5,847	5%		W	C	8		487,000	25.0%	121896	M,6350000,19.50%,5.50%																				
Old River Rd: McCutchen Rd - Panama Ln	0	814	2,276	15%		W	C	8		487,000	25.0%	121896	M,6350000,19.50%,5.50%																				
Old River Rd: Panama Ln - Harris Rd	0	8,044	5%		C	A	6	9.5	1,980,000	25.0%	495594	M,9900000,19.9%,9.50%																				
Old River Rd: Harris Rd - Campus Park Dr	0	11,893	5%		C	A	6	9.5	1,980,000	25.0%	495594	M,9900000,19.9%,9.50%																				
Old River Rd: Campus Park Dr - White Ln	0	10,393	5%		C	A	6	9.5	1,980,000	25.0%	495594	M,9900000,19.9%,9.50%																				
Old River Rd: White Ln - Ming Ave	0	17,303	3%	U	C	A	6	9.5	1,980,000	25.0%	495594	M,9900000,19.9%,9.50%																				
Old River Rd: Ming Ave - Stockdale Hwy	0	53,960	3%	U	C	A	6	9.5	1,980,000	25.0%	495594	M,9900000,19.9%,9.50%																				
Olive Ave: South St - Wood St	207	271	3%	U	W	C	4		487,000	25.0%	121896	R,1948000,19.8%,40%																				
Palm Ave: SR 46 - Morris Rd	0	1,340	3%	U	W	C	4		487,000	25.0%	121896	R,1948000,19.8%,40%																				
Palm Ave: McCombs Ave - Phillips Rd	56	1,340	3%	U	W	C	4		487,000	25.0%	121896	R,1948000,19.8%,40%																				
Real Rd: SR 58 - Stockdale Hwy	0	16,105	3%	U	A	C	6	9.5	1,980,000	25.0%	495594	M,7920000,19.8%,40%																				
Round Mtn Rd: China Grade Loop - Pyramid Rd	0	2,304	10%		C	E	4		487,000	25.0%	121896	R,1948000,19.8%,40%																				
Round Mtn Rd: Pyramid Rd - Granite Rd	0	208	10%		E	C	8		487,000	25.0%	184086																					
Rowden Rd: Lerdo Hwy - SR 46	0	2,381	5%		W	C	8		487,000	25.0%	121896	R,1948000,19.8%,40%																				
S 10th St: Wood St - A St	0	8,657	3%	U	W	B	4		487,000	25.0%	121896	M,6350000,19.8%,40%																				
S Lake Rd: Oilfield Rd - Hill Rd	0	1,000	5%		W	C	8		487,000	25.0%	121896	R,1948000,19.8%,40%																				
SR 204 (Union Ave): SR 58 - Union Ave	0	43,000	10%		A	E	9.5	1,980,000	26.5%	525086	R,18900000,19.12,5.100%																				
Santa Fe Way: Allen Rd - Hageman Rd	0	9,600	3%	U	A	C	6	9.5	1,980,000	25.0%	525086																					
Santa Fe Way: Hageman Rd - Bonita Ln	0	9,600	3%	U	A	C	6	9.5	1,980,000	25.0%	525086																					
Santa Fe Way: Renfro Rd - Kratzmeyer Rd	0	9,600	3%	U	A	C	6	9.5	1,980,000	25.0%	525086																					
Santa Fe Way: Kratzmeyer Rd - 7th Standard Rd	0	9,448	3%	U	A	C	6	9.5	1,980,000	25.0%	525086																					
Santa Fe Way: 7th Standard Rd - Los Angeles Ave	198	11,245	3%	U	A	C	6	9.5	1,980,000	25.0%	525086																					
Shafter Ave: SR 43 (Central Valley Hwy) - Merced Ave	30	2,942	3%	U	C	E	4		487,000	25.0%	184086																					
Shafter Ave: Merced Ave - Beech Ave	30	2,942	3%	U	C	E	4		487,000	25.0%	184086																					
Shafter Ave: Lerdo Hwy - SR 43 (Central Valley Hwy)	0	2,942	3%	U	C	E	4		487,000	25.0%	184086																					
Tracy Ave: SR 58 - Jet 700 Ranges	0	500	5%		C	E	4		487,000	17.4%	184086																					
Tracy Ave: Int 5 NB Ramps - Willow Dr	0	500	5%		C	E	4		487,000	17.4%	184086																					
Tracy Ave: Willow Dr - Stockdale Hwy	0	1,000	5%		C	E	4		487,000	17.4%	184086																					
Tupman Rd: SR 119 - N Access Rd	381	690	15%		W	C	8		487,000	25.0%	121896	R,1948000,19.8%,40%																				
Tupman Rd: N Access Rd - Adobe Rd	0	239	15%		W	C	8		487,000	25.0%	121896	R,1948000,19.8%,40%																				
Wasco Way: Bonita Ln - Beech Ave	1,821	1,821	15%		W	B	8		487,000	25.0%	40144	R,1948000,19.8%,40%																				
Wasco Way: Stockdale Hwy - Brite Rd	771	1,821	15%		W	C	8		487,000	25.0%	199737	R,1948000,19.8%,40%																				
Wheeler Ridge Rd: Interstate 5 - Fort Rd	0	1,000	5%		W	C	8		487,000	25.0%	121896	R,1948000,19.8%,40%																				
Wheeler Ridge Rd: Del Sol Dr - David Rd	0	5,030	10%		E	C	8		487,000	25.0%	121896	R,1948000,19.8%,40%																				
Wheeler Ridge Rd: Fort Rd - SR 223 (Bear Mtn Blvd)	0	5,030	10%		E	C	8		487,000	25.0%	121896	R,1948000,19.8%,40%																				
Zerker Rd: 7th Standard Rd - Lerdo Hwy	0	5,449	3%	U	C	E	6		1,980,000	25.0%	121896	R,1948000,19.8%,40%																				
SR 178: 24th St Frontage Rd - Union Ave	0	54,000	5%		E	E	6	10	3,020,000	23.7%	717220	C,12000000,19.10,40%																				
SR 178: Union Ave - Mt Vernon Ave	0	54,000	5%		E	E	6	10	3,020,000	23.7%	113347	C,12000000,19.10,40%																				
SR 178: Mt Vernon Ave - Oswell St	0	40,500	5%		E	E	6	10	3,020,000	36.7%	109412	C,12000000,19.10,40%																				
SR 178: Oswell St - Miramonte Dr	0	40,500	5%		E	E	6	10	3,020,000	36.7%	141068	C,12000000,19.10,40%																				
SR 58: Interstate 5 - Corcoran Rd	1,160	6,300	15%		W	C	8		487,000	25.0%	4241025	M,6300000,19.5,100.%																				
SR 46: Corcoran Rd - Rowles Rd	1,160	9,000	15%		W	C	8		487,000	25.0%	4499618	M,6350000,19.5,100.%																				
SR 46: Rowles Rd - Gamma Rd	1,160	9,000	15%		W	C	8		487,000	25.0%	4499618	M,6350000,19.5,100.%																				
SR 46: Magnolia Ave - Palm Ave	1,160	15,500	15%		W	C	8		487,000	25.0%	3605925	P,5400000,6.48%,12.40%																				
SR 46: Palm Ave - SR 43 North	1,160	15,500	15%		W	C	8		487,000	25.0%	3605925	P,5400000,6.48%,12.40%																				
SR 46: SR 43 South - Beech Ave	1,186	9,700	15%		W	C	8		487,000	25.0%	3534597	P,5400000,10.43%,12.40%																				
SR 46: Beech Ave - Emerson Rd	1,186	9,700	15%		W	C	8		487,000	25.0%	3534597	P,5400000,10.43%,12.40%																				
SR 58: 7 Mile Rd - SR 33	0	350	20%		W	B	4		487,000	20.8%	101150	M,6350000,19.8%,40%																				
SR 58: SR 33 - Lokern Rd	739	2,550	10%		W	C	8		487,000	25.0%	2368377	M,6350000,19.5,100.%																				
SR 58: Lokern Rd - Corn Camp Rd	2,625	5,600	10%		W	C	8		487,000	25.0%	2368377	M,6350000,19.5,100.%																				
SR 58: Corn Camp Rd - Wasco Wy	1,817	6,300	20%		W	C	8		487,000	25.0%	2368377	M,6350000,19.5,100.%																				
SR 58: Wasco Wy - Old Skyline Ranch Rd	1,817	6,300	20%		W	C	8		487,000	25.0%	2368377	M,6350000,19.5,100.%																				
SR 58: Old Tracy Ave - Tracy Ave	1,817	6,300	20%		W	C	8		487,000	25.0%	2368377	M,6350000,19.5,100.%																				
SR 58: Tracy Ave - SR 43 (Enos Ln)	1,346	8,700	15%		W	C	8		487,000	25.0%	2450133	M,6350000,19.5,100.%																				
SR 58: Enos Ln - Superior Rd (Rosedale Hwy) - SR 43 (Enos Ln)	322	31,000	25%		E	C	8		487,000	25.0%	2792230	M,6350000,19.5,100.%																				
SR 58: (Rosedale Hwy): Superior Rd - Greeley Rd	0	35,500	7%		E	C	8		487,000	25.0%	2792230	M,6350000,19.5,100.%																				
SR 58: (Rosedale Hwy): Greeley Rd - Renfro Rd	0	35,500	7%		E	C	8		487,000	25.0%	2792230	M,6350000,19.5,100.%																				
SR 58: (Rosedale Hwy): Renfro Rd - Allen Rd	0	35,500	7%		E	C	8		487,000	25.0%	2792230	M,6350000,19.5,100.%																				
SR 58: (Rosedale Hwy): Allen Rd - Old Farm Rd	0	35,500	7%		E	C	8		487,000	25.0%	2792230	M,6350000,19.5,100.%																				
SR 58: (Rosedale Hwy): Old Farm Rd - Jewetta Ave W	0	29,000	7%		E	C	8		487,000	25.0%	2792230	M,6350000,19.5,100.%																				
SR 58: (Rosedale Hwy): Jewetta Ave N - Calloway Dr	0	35,500	7%		E	C	8		487,000	25.0%	2792230	M,6350000,19.5,100.%																				
SR 58: (Rosedale Hwy): Calloway Dr - Coffee Rd	0	36,100	7%		E	C	8		487,000	25.0%	2792230	M,6350000,19.5,100.%																				
SR 58: (Rosedale Hwy): Coffee Rd - Patton Wy	0	36,100	7%		E	C	8		487,000	25.0%	2792230	M,6350000,19.5,100.%																				
SR 58: (Rosedale Hwy): Patton Wy - Mohawk St	0	36,100	7%		E	C	8		487,000	25.0%	2792230	M,6350000,19.5,100.%																				
SR 58: (Rosedale Hwy): Mohawk St - SR 99	57	49,500	7%		E	C	8		487,000	25.0%	2452659	M,6350000,19.5,100.%																				
SR 184 (Weedpatch Hwy): SR 223 (Bear Mtn Blvd) - Sunset B	0	3,900	10%		E	C	8		487,000	25.0%	184086																					
SR 184 (Weedpatch Hwy): Sunset Blvd - Di Giorgio Rd	0	10,500	10%		E	C	8		487,000	25.0%	184086																					
Interstate 5: SR 166 (Maricopa Hwy) - Old River Rd	0	31,500	25%		F	C	4	14.5	64,300,000	28.0%	18085501	2,24028882,1%,14.5,30%,12.	2,24028882,1%,14.5,30%,12.	2,24028882,1%,14.5,30%,12.	2,24028882,1%,14.5,30%,12.	2,22303941,14.5,30%,12.	2,20544552,14.5,30%,12.	2,18794874,14.5,29%,12.	2,17047441,14.5,30%,12.	2,15255213,14.5,30%,12.	2,13455663,14.5,30%,12.	2,11704441,14.5,30%,12.	2,10020600,14.5,30%,12.	2,8360482,14.5,30%,12.	2,6644979,14.5,30%,12.	2,4960519,14.5,30%,12.	2,3280457,14.5,30%,12.	2,1604219,14.5,30%,12.	2,0000,14.5,30%,12.		
Interstate 5: SR 223 (Bear Mtn Blvd) - SR 119 (Taft Hwy)	0	31,500	25%		F	C	4	14.5	64,300,000	31.0%	19925927	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%
Interstate 5: SR 119 (Taft Hwy) - SR 43 (Enos Ln)	322	31,000	25%		F	C	4	14.5	64,300,000	35.7%	22939453	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%
Interstate 5: SR 43 (Enos Ln) - Stockdale Hwy	1,429	31,000	25%		F	C	4	14.5	64,300,000	31.0%	19933548	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%
Interstate 5: SR 58 - 7th Standard Rd	1,236	35,500	25%		F	C	4	14.5	64,300,000	30.4%	19652009	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%
Interstate 5: 7th Standard Rd - Lerdo Hwy	3,610	35,500	25%		F	C	4	14.5	64,300,000	31.4%	20199845	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%	2,25720000,19.6,5.40%

Roadway Segment	Proj AADT	2014 AADT	Trucks	Urban	Type	Region	Sub Lanes	No. Zov-TI	Estimated Max ESAL	Estimated Life	ESAL 2014	ESAL 2016	ESAL 2017	ESAL 2018	ESAL 2019	ESAL 2020	ESAL 2021	ESAL 2022	ESAL 2023	ESAL 2024	ESAL 2025	ESAL 2026	ESAL 2027	ESAL 2028	ESAL 2029	ESAL 2030	ESAL 2031	ESAL 2032	ESAL 2033	ESAL 2034	ESAL 2035
SR 184 (Weedpatch Hwy): Di Giorgio Rd - Panama Rd	0	16,200	10%		H	E	4	11	6,600,000	16.55%	1089660	1432468.11%	1643727.11%	1886000.11%	2163955.11%	2482800.11%	M.9490000,11,11,5,100%,16,	2849178.11%	3268943.11%	3750000.11%	4302703.11%	4936600.11%	5663189.11%	6498480.11%	7455779.11%	8554800.11%	9815463.11%	11261206.11%	12919898.11%	14821000.11%	17000000.11%
SR 184 (Weedpatch Hwy): Panama Rd - Mountain View Rd	0	10,500	10%		H	E	4	11	6,600,000	20.8%	1370820	1570193.11%	1801676.11%	2067656.11%	2372155.11%	2721600.11%	M.6600000,11,11,100%,16,	3122400.11%	3582800.11%	4110000.11%	4716000.11%	5410000.11%	6208000.11%	7123000.11%	8173000.11%	9378000.11%	10760000.11%	12345000.11%	14163000.11%	16400000.11%	18600000.11%
SR 184 (Weedpatch Hwy): Mountain View Rd - Panama Ln	0	14,600	10%		H	E	4	11	6,600,000	20.8%	1396000	1601193.11%	1837196.11%	2107656.11%	2417655.11%	2773200.11%	M.5490000,11,5,100%,16,	3182400.11%	3650000.11%	4188000.11%	4806000.11%	5514000.11%	6327000.11%	7258000.11%	8330000.11%	9558000.11%	10965000.11%	12582000.11%	14436000.11%	16716000.11%	18972000.11%
SR 184 (Weedpatch Hwy): Panama Ln - Muller Rd	0	9,500	10%		H	E	4	11	6,600,000	20.8%	1370820	1189300.11%	1364400.11%	1565057.11%	1795600.11%	2059800.11%	M.6600000,11,11,100%,16,	2364000.11%	2712000.11%	3111000.11%	3570000.11%	4096000.11%	4700000.11%	5392000.11%	6188000.11%	7100000.11%	8145000.11%	9345000.11%	10724000.11%	12412000.11%	14100000.11%
SR 184 (Weedpatch Hwy): Muller Rd - SR 58	0	17,200	10%		H	E	4	11	6,600,000	20.8%	1370820	1397913.11%	1603986.11%	1840000.11%	2111200.11%	2422800.11%	M.6600000,11,11,100%,16,	2780400.11%	3189600.11%	3660000.11%	4197600.11%	4816000.11%	5526000.11%	6340000.11%	7275000.11%	8346000.11%	9578000.11%	10984000.11%	12605000.11%	14460000.11%	16600000.11%
SR 184 (Weedpatch Hwy): SR 58 - Brundage Ln	0	19,700	10%		H	E	4	11	6,600,000	20.8%	1370820	1069688.11%	1311816.11%	1604039.11%	1960000.11%	2395200.11%	M.9490000,11,15,100%,16,	2929200.11%	3582000.11%	4380000.11%	5355600.11%	6548000.11%	8007000.11%	9790000.11%	11972000.11%	14640000.11%	17904000.11%	21896000.11%	26772000.11%	32736000.11%	40032000.11%
SR 184 (Weedpatch Hwy): Brundage Ln - Edison Hwy	0	16,900	10%		H	E	4	11	6,600,000	20.8%	1370820	1111240.11%	1312296.11%	1549600.11%	1830000.11%	2160800.11%	M.9490000,11,15,100%,16,	2550000.11%	3010800.11%	3555000.11%	4197600.11%	4956000.11%	5850000.11%	6907000.11%	8154000.11%	9627000.11%	11367000.11%	13419000.11%	15844000.11%	18708000.11%	22080000.11%
SR 184 (Weedpatch Hwy): Edison Hwy - Breckenridge Rd	0	16,900	10%		H	E	4	11	6,600,000	19.3%	1272381	1494666.11%	1764906.11%	2083656.11%	2459400.11%	2902200.11%	M.1350000,10,12,100%,16,	3426000.11%	4044000.11%	4773000.11%	5634000.11%	6651000.11%	7852000.11%	9268000.11%	10941000.11%	12918000.11%	15252000.11%	18006000.11%	21258000.11%	25116000.11%	29640000.11%
SR 184 (Morning Dr): Breckenridge Rd - Pioneer Dr	0	16,900	10%		H	E	4	11	6,600,000	21.4%	1412961	1090046.11%	1311816.11%	1578228.11%	1899600.11%	2286000.11%	M.1350000,10,12,100%,16,	2751600.11%	3312000.11%	3985200.11%	4797600.11%	5774000.11%	6948000.11%	8361000.11%	10062000.11%	12108000.11%	14572800.11%	17541600.11%	21110400.11%	25401600.11%	30585600.11%
SR 184 (Morning Dr): Pioneer Dr - Niles St	0	11,100	10%		H	E	4	11	6,600,000	21.4%	1412961	1090046.11%	1311816.11%	1578228.11%	1899600.11%	2286000.11%	M.6600000,11,11,100%,16,	2751600.11%	3312000.11%	3985200.11%	4797600.11%	5774000.11%	6948000.11%	8361000.11%	10062000.11%	12108000.11%	14572800.11%	17541600.11%	21110400.11%	25401600.11%	30585600.11%
SR 204 (Golden State Ave): Union Ave - SR 178	0	12,900	10%		H	E	6	11	6,600,000	33.5%	2213772	2055135.11%	2311316.14%	1895765.11%	11,299,6,	M.2640000,11,11,40%,14,	2479872.11%	11,388,3,	2313739.11%	11,359,3,	2154496.11%	11,339,6,	1991040.11%	11,309,4,	M.2640000,11,11,40%,14,	2473250.11%	11,279,3,	2305567.11%	11,335,3,	2137246.11%	11,332,6,	1967983.11%	11,309,4,	M.2640000,11,11,40%,14,	2467326.11%	11,279,3,	2293789.11%	11,335,3,	2119384.11%	11,325,6,	1944107.11%	11,299,4,
SR 204 (Golden State Ave): SR 178 - SR 99	0	16,100	10%		H	E	6	11	6,600,000	24.6%	1623864	M.2640000,11,11,40%,3,	2310489.11%	2131489.11%	11,359,3,	1983340.11%	11,339,2,	1612545.11%	11,279,3,PW	1485000.11%	11,339,6,CW	1372500.11%	11,309,4,CW	M.3490000,11,11,3,100%,15,	915240.11%	11,339,6,11,	881339.11%	11,339,3,	847249.11%	11,279,3,	814900.11%	11,339,6,	783000.11%	11,309,4,	752400.11%	11,279,3,	721800.11%	11,339,6,	691800.11%	11,309,4,	662400.11%	11,279,3,
SR 33/166: Stubblefield Rd - SR 166	0	4,100	20%		H	W	2	11	6,600,000	30.4%	2003133	1886078.11%	11,299,8,				C,2640000,11,11,40%,19,		2511755.11%	11,339,17,			3380946.11%	11,369,17,			4247520.11%	11,339,17,			5972610.11%	11,369,8,			7810000.11%	11,369,8,			9840000.11%	11,369,8,
SR 33: SR 166 - Wood St	200	5,100	20%		H	W	1	11	6,600,000	27.6%	1820544			C,2640000,2.2%,11,40%,3,			2496671.2.17%,11,38%,17,		2330275.2.14%,11,35%,17,				2170751.2.12%,11,33%,18,				2030037.2.09%,11,33%,18,				1904984.2.06%,11,33%,18,				1792148.2.04%,11,33%,18,				1690000.2.02%,11,33%,18,
SR 33: Wood St - SR 119 (Taft Hwy)	1,597	5,800	20%		H	W	2	11	6,600,000	28.2%	1862685			C,2640000,15.42%,11,40%,9,			2465626.15.27%,11,37%,17,		2307764.15.05%,11,33%,17,				2160345.14.87%,11,32%,18,				2019297.14.68%,11,29%,8,				1888330.14.50%,11,29%,8,				1768000.14.32%,11,29%,8,				1657000.14.15%,11,29%,8,
SR 33: SR 119 (Taft Hwy) - 6th St	2,000	9,300	20%		H	W	2	11	6,600,000	37.8%	2494800	2231326.12.34%,11,34%,17,		1962585.12.19%,11,30%,8,		P,2640000,12.04%,11,40%,8,		2360400.11.9%,11,36%,13,		2075208.11.75%,11,31%,4,				1784312.11.61%,11.27%,14,PW		1487598.11.47%,11.23%,4,PW		1184950.11.33%,11.12%,16,3		876249.11.19%,11.9%,16,H		M.1350000,10.92%,12.100%,16,		13172404.10.79%,12.58%,13,		12838256.10.66%,12.95%,13,		12497425.10.53%,12.93%,13,		12149777.10.4%,12.90%,13,		11795176.10.27%,12.87%,13,		11435383.10.15%,12.85%,13,		11069156.10.03%,12.82%,13,		10683851.9.9%,12.79%,13,		10304402.9.78%,12.76%,13,		9912912.9.66%,12.73%,13,
SR 33: 6th St - 10th St	2,000	11,700	20%		H	W	2	11	6,600,000	37.8%	2494800	2226603.11.8%,11.35%,17,		1958385.11.68%,11.35%,17,		P,2640000,12.04%,11,40%,8,		2353404.11.48%,11.35%,17,		2069435.11.29%,11.35%,17,				1779312.11.09%,11.35%,17,		1482598.10.89%,11.35%,17,		1179925.10.69%,11.35%,17,		877839.10.49%,11.35%,17,		M.1350000,10.92%,12.100%,16,		13134804.10.79%,12.58%,13,		12795256.10.66%,12.95%,13,		12450.10.53%,12.93%,13,		12107.10.4%,12.90%,13,		11748.10.27%,12.87%,13,		11392.10.15%,12.85%,13,		11040.10.03%,12.82%,13,		10650.9.9%,12.79%,13,		10274.9.78%,12.76%,13,		9877.9.66%,12.73%,13,
SR 33: 10th St - Midway Rd	2,000	7,400	20%		H	W	2	11	6,600,000	31.4%	2073390	1863744.15.51%,11.28%,8,		2058423.15.44%,11.38%,17,			2417522.14.95%,11.37%,17,		2190595.14.77%,11.31%,17,				1959129.14.59%,11.30%,8,				1723130.14.41%,11.26%,18,PW		1486838.14.23%,11.26%,18,PW		1236584.14.07%,11.26%,18,PW		986038.13.9%,11.26%,18,PW		734966.13.72%,11.26%,18,PW		481787.12.6%,11.58%,13,		227947.12.35%,11.58%,13,		1,11.58%,13,		1,11.58%,13,		1,11.58%,13,
SR 33: Midway Rd - SR W	1,198	4,600	20%		H	W	2	11	6,600,000	25.0%	1694068	P,2640000,15.47%,11,40%,8,		2512852.15.44%,11.38%,17,			2383163.15.25%,11.36%,17,		2189879.15.06%,11.35%,17,				1993231.14.87%,11.34%,17,				1793321.14.7%,11.33%,17,				1591004.14.52%,11.32%,17,				1387243.14.34%,11.32%,17,				1181000.14.17%,11.32%,17,
SR 33: SR 58 W - Reward/Reserve Rd	1,198	4,000	20%		H	W	2	11	6,600,000	25.0%	1651980	P,2640000,17.19%,11.40%,8,		2524412.16.98%,11.38%,17,			2406512.16.77%,11.36%,17,		2286254.16.57%,11.35%,17,				2165391.16.37%,11.33%,18,				2038474.16.17%,11.31%,18,				1910855.15.97%,11.29%,8,				1781000.15.77%,11.29%,8,				1650000.15.57%,11.29%,8,			
SR 33: Reward/Reserve Rd - SR 58 E	718	4,000	20%		H	W	2	11	6,600,000	27.2%	1792230			1444420.10.05%,11.25%,19,			1351165.9.91%,11.25%,19,		1257162.9.91%,11.25%,19,				1167738.9.91%,11.25%,19,				1077812.9.91%,11.25%,19,				988440.9.91%,11.25%,19,				898624.9.91%,11.25%,19,				809360.9.91%,11.25%,19,			
SR 33: SR 58 E - Cymric Rd	600	1,800	20%		H	W	2	11	6,600,000	24.2%	1595748	1219825.19.13%,11.29%,19,C		1267810.18.9%,11.25%,62			1214755.18.67%,11.18%,19		1166638.18.44%,11.18%,19				1104446.18.22%,11.17%,19				1043812.17.99%,11.22%,19,C				984440.17.77%,11.22%,19,C				925000.17.55%,11.22%,19,C				866500.17.33%,11.22%,19,C			
SR 33: Cymric Rd - Lokern Rd	600	1,900	20%		H	W	2	11	6,600,000	24.2%	1595748			1431012.17.69%,11.22%,19,C			1373889.17.47%,11.21%,19,C		1316766.17.25%,11.21%,19,C				1260009.17.05%,11.49%,3,				C,2640000,17.05%,11.49%,3,				1259381.16.84%,11.39%,17,				1205560.16.64%,11.39%,17,				1151600.16.44%,11.39%,17,			
SR 33: Lokern Rd - Lost Hills Rd S	872	4,800	20%		H	W	2	11	6,600,000	20.8%	1370820	1234834.18.43%,11.19%,19,		1059216.18.2%,11.17%,19M			9544681.18.17%,11.18%,19,3		8103381.18.05%,11.18%,19,M				7012344.17.93%,11.18%,19,M				5921273.17.81%,11.18%,19,M				4829146.17.69%,11.18%,19,M				3736019.17.57%,11.18%,19,M				2642892.17.45%,11.18%,19,M			
SR 33: Lost Hills Rd S - Lost Hills Rd N	872	4,600	20%		H	W	2	11	6,600,000	25.0%	1651980	P,2640000,10.88%,11,40%,8,		2507073.10.75%,11.38%,17,			2374188.10.62%,11.36%,17,		2233191.10.49%,11.34%,17,				2092128.10.36%,11.32%,18,				1948244.10.23%,11.30%,8,				1798.10.11%,11.28%,8,				1647.10%,11.28%,8,				1496.9.88%,11.28%,8,			
SR 33: Lost Hills Rd N - 7th Standard Rd	872	3,600	20%		H	W	2	11	6,600,000	31.4%	2073390	1971460.13.9%,11.30%,18,		1867370.13.77%,11.28%,8,			1767310.13.77%,11.28%,8,		1667250.13.64%,11.28%,8,				1567190.13.51%,11.28%,8,				P,2640000,13.24%,11.40%,8,				2527395.13.08%,11.38%,17,				2415238.12.92%,11.37%,17,				2303080.12.45%,11.36%,17,			
SR 33: 7th Standard Rd - Lerdo Hwy	1,521	3,600	20%		H	W	2	11	6,600,000	31.4%	2270004	2160034.24.25%,11.33%,18,		1965884.23.95%,11.31%,18,			1957874.23.66%,11.30%,18,		1849642.23.38%,11.28%,8,				1741386.23.09%,11.28%,8,				P,2640000,23.04%,11.40%,8,				2527395.22.81%,11.38%,17,				2415238.22.53%,11.37%,17,				2295384.22.26%,11.35%,17,			
SR 33: Lerdo Hwy - Brown Material Rd	1,974	3,600	20%		H	W	2	11	6,600,000	31.4%	2073390	2392810.31.47%,11.36%,17,		2287870.31.09%,11.35%,17,			2182670.30.71%,11.33%,17,		2078430.30.34%,11.31%,18,				1964041.29.97%,11.30%,18,				1851436.29.6%,11.28%,8,				1738.29.23%,11.28%,8,				1625.28.86%,11.28%,8,				1512.28.49%,11.28%,8,			
SR 33: Brown Material Rd - SR 46	1,967	3,600	20%		H	W	2	11	6,600,000	35.7%	2354286	2252596.31.41%,11.34%,17,		2140266.31.2%,11.33%,18,			2042156.30.83%,11.31%,18,		1943924.30.46%,11.29%,8,				1845712.30.09%,11.28%,8,				1747498.29.72%,11.28%,8,				1649285.29.35%,11.28%,8,				1551071.28.98%,11.28%,8,				1452858.28.61%,11.28%,8,			
SR 33: SR 46 - Twisselman Rd	0	1,800	20%		H	W	1	11	6,600,000	34.4%	2270004	2219009.11%,11.34%,17,		2166994.1%,11.33%,18,			2113399.1%,11.32%,18,		2059823.1%,11.31%,18,				2006624.1%,11.30%,18,				1953323.1%,11.28%,8,				1899893.1%,11.29%,8,				1846294.1%,11.29%,8,				1792695.1%,11.29%,8,			
SR 33: Twisselman Rd - SR 43	0	1,800	20%		H	W	1	11	6,600,000	34.4%	2270004	2443905.11%,11.37%,17,		2391790.1%,11.36%,17,			2338735.1%,11.35%,17,		2284619.1%,11.35%,17,				2230426.1%,11.34%,17,				2176233.1%,11.33%,18,				2122040.1%,11.31%,18,				2067847.1%,11.31%,18,				2013654.1%,11.31%,18,			
SR 43 (Enos Ln): SR 119 (Taft Hwy) - Interstate 5	3,064	6,600	20%	H	T	C	4	11	6,600,000	37.8%	2494800	2308735.26.78%,11.35%,17,		2119879.26.58%,11.32%,18,			1928190.26.39%,11.29%,8,		1736408.26.2%,11.28%,8,				1544626.26.01%,11.28%,8,				P,2640000,26%,11.40%,8,				2439555.25.81%,11.38%,17,				2236104.25.63%,11.37%,17,				2032905.25.44%,11.36%,17,			
SR 43 (Enos Ln): Interstate 5 - Panama Ln	4,171	6,600	20%	H	T	C	4	11	6,600,000	37.8%	2494800	2370827.54.71%,11.36%,17,		2144994.54.31%,11.34%,17,			2117274.53.91%,11.32%,18,		1907638.53.52%,11.30%,18,				1698653.53.12%,11.28%,8,				P,2640000,52.36%,11.40%,8,				2502409.51.97%,11.38%,17,				2302754.51.66%,11.36%,17,				2077128.50.85%,11.31%,18,			
SR 43 (Enos Ln): Panama Ln - Stockdale Hwy	2,465	8,400	15%	H	C	C	4	11	6,600,000	37.8%	2494800	2337016.25.4%,11.35%,17,		2176865.25.22%,11.33%,18,			2014312.25.03%,11.31%,18,		1849320.24.85%,11.28%,8,				1684328.24.66%,11.28%,8,				P,2640000,24.67%,11.40%,8,				2470022.24.49%,11.37%,17,				2297494.24.31%,11.35%,17,				2125.24.13%,11.33%,18,			
SR 43 (Enos Ln): Stockdale Hwy - Brimhall Rd	1,644	5,700	15%	H	C	C	4	11	6,600,000	37.8%	2494800	2387732.24.97%,11.36%,17,		2179058.24.76%,11.33%,18,			1970754.24.6%,11.33%,18,		1762450.24.43%,11.33%,18,				1554146.24.26%,11.33%,18,				P,2640000,24.26%,11.40%,8,				2345841.24.09%,11.37%,17,				2137537.23.92%,11.36%,17,				1929233.23.75%,11.36%,17,			
SR 43 (Enos Ln): Brimhall Rd - SR 58 (Rosedale Hwy)	1,644	5,700	15%	H	C	C	4	11	6,600,000	37.8%	2494800	2387732.24.97%,11.36%,17,		2179058.24.76%,11.33%,18,			2079956.24.43%,11.33%,18,		1970755.24.43%,11.33%,18,				1861554.24.25%,11.29%,8,				1752354.24.08%,11.29%,8,				1643154.23.91%,11.29%,8,				1533954.23.74%,11.29%,8,				1424754.23.57%,11.29%,8,			
SR 43 (Enos Ln): SR 58 (Rosedale Hwy) - SR 58 W	4,001	5,500	15%	H	C	C	4	11	6,600,000	37.8%	2494800	2390980.62.66%,11.36%,17,		2285084.61.9%,11.35%,17,			2177070.61.15%,11.33%,18,		2066895.60.4%,11.31%,18,				1956737.59.67%,11.30%,8,				1846579.58.92%,11.28%,8,				1736422.58.17%,11.28%,8,				1626264.57.42%,11.28%,8,				1516107.56.67%,11.28%,8,			
SR 43 (Enos Ln): SR 58 W - Kroutzmeyer Rd	2,655	5,400	15%	H	C	C	4	11	6,600,000	37.8%	2494800	P,2640000,33.42%,11.40%,8,		2536029.41.84%,11.38%,17,			2429979.41.33%,11.37%,17,		2323807.40.83%,11.35%,17,				2211472.40.33%,11.33%,17,				2099130.39.84%,11.32%,18,				1984.39.39%,11.30%,18,				1867050.38.88%,11.28%,8,				1749.38.39%,11.28%,8,				1632.37.9%,11.28%,8,			
SR 43 (Enos Ln): Kroutzmeyer Rd - 7th Standard Rd	2,655	5,600	15%	H	C	C	4	11	6,600,000	37.8%	2494800	2372104.35.19%,11.36%,17,		2246954.34.76%,11.34%,17,			2119301.34.33%,11.32%,18,		1989905.33.92%,11.30%,18,				1859284.33.5%,11.28%,8,				P,2640000,32.76%,11.40%,8,				2499660.32.3%,11.38%,17,				2359302.31.91%,11.36%,17,				2209102.31.13%,11.31%,18,				1900544.30.76%,11.29%,8,			
SR 43 (Enos Ln): 7th Standard Rd - Imperial St	0	4,000	15%		H	C	2	11	6,600,000	25.0%	1651980								C,2640000,11.11%,11.40%,9,		2556636.11%,11.39%,17,			2474605.11%,11.37%,17,		2384873.11%,11.36%,17,			2296406.11%,11.35%,17,		2206170.11%,11.33%,17,			2114129.11%,11.32%,18,			2020247.11%,11.31%,18,			1924488.11%,11.29%,8,			
SR 43 (Beech Ave): Imperial St - Orange Ave	0	4,000	15%		H	C	2	11	6,600,000	25.0%	1651980	2419294.11%,11.37%,17,		2342278.11%,11.35%,17,			2267272.11%,11.34%,17,		2183595.11%,11.33%,17,				2100586.11%,11.32%,18,				2018591.11%,11.31%,18,				1933470.11%,11.29%,8,				1848.11%,11.29%,8,				1763.11%,11.29%,8,			
SR 43 (Beech Ave): Orange Ave - Los Angeles Ave	0	4,000	15%		H	C	2	11	6,600,000	25.0%	1651980								C,2640000,11.11%,11.40%,9,		2556636.11%,11.39%,17,			2474605.11%,11.37%,17,		2384873.11%,11.36%,17,			2296406.11%,11.35%,17,		2206170.11%,11.33%,17,			2114129.11%,11.32%,18,			2020247.11%,11.31%,18,			1924488.11%,11.29%,8,			
SR 43 (Central Valley Hwy): Los Angeles Ave - Lerdo Hwy	198	9,600	15%	H	C	C	4	11	6,600,000	37.8%	2494800	P,2640000,1.78%,11.40%,8,		2455163.1.76%,11.37%,17,			2366629.1.73%,11.34%,13,		2274324.1.71%,11.31%,14,				2182343.1.63%,11.27%,13,				2078173.1.69%,11.24%,13,				1973173.1.69%,11.24%,13,				1868173.1.69%,11.24%,13,				1763173.1.69%,11.24%,13,			
SR 43 (Central Valley Hwy): Lerdo Hwy - N Shafter Ave	37	9,600	15%	H	C	C	4	11	6,600,000	37.8%	2494800	2349829.1%,11.36%,17,		2201959.1%,11.33%,17,			2053132.1%,11.31%,14,		1897288.1%,11.29%,4,				P,2640000,1%,11.40%,14,				2479941.1%,11.38%,13,				2316681.1%,11.35%,13,				2150155.1%,11.33%,14,				1980299.1%,11.30%,4,				1815.1%,11.29%,4,			
SR 43 (Central Valley Hwy): N Shafter Ave - Dresser Ave	7	14,000	15%	H	C	C	4	11	6,600,000	37.8%	2494800	2283385.1%,11.35%,13,		2067741.1%,11.31%,14,		P,2640000,1%,11.40%,14,	2415644.1%,11.37%,13,		2188601.1%,11.33%,13,				1961461.1%,11.30%,13,				1734321.1%,11.28%,13,				1507181.1%,11.25%,13,				1280041.1%,11.23%,13,				1052901.1%,11.20%,13,			
SR 43 (Central Valley Hwy): Dresser Ave - Kimberlina Rd	7	14,000	15%	H	C	C	4	11	6,600,000	37.8%	2494800	2283385.1%,11.35%,13,		2067741.1%,11.31%,14,		P,2640000,1%,11.40%,14,	2415644.1%,11.37%,13,		2188601.1%,11.33%,13,				1961461.1%,11.30%,13,				1734321.1%,11.28%,13,				1507181.1%,11.25%,13,				1280041.1%,11.23%,13,				1052901.1%,11.20%,13,			
SR 43 (Central Valley Hwy): Kimberlina Rd - SR 46	7	10,400	15%	H	C	C	4	11	6,600,000	34.0%	2241888	2084837.1%,11.32%,14,		1924645.1%,11.29%,4,		P,2640000,1%,11.40%,14,	2473336.1%,11.37%,13,		2303338.1%,11.35%,13,				2129941.1%,11.32%,14,				1956976.1%,11.30%,4,				1784615.1%,11.28%,4,				1612254.1%,11.25%,4,				1439893.1%,11.23%,4,			
SR 43 (Central Valley Hwy): SR 46 - McCombs Rd	7	6,800	15%	H	C	C	4	11	6,600,000	34.0%	2241888	2367070.1%,11.36%,13,		2207424.1%,11.34%,17,		P,2640000,1%,11.40%,14,	2191853.1%,11.32%,18,		1972268.1%,11.30%,8,				1752768.1%,11.30%,8,				1533268.1%,11.30%,8,				1313768.1%,11.30%,8,				1094268.1%,11.30%,8,				874768.1%,11.30%,8,			
SR 43 (Central Valley Hwy): McCombs Rd - Garces Hwy	6	6,800	15%	H	C	C	4	11	6,600,000	35.2%	2326236	2198506.1%,11.33%,17,		2068860.1%,11.31%,18,		P,2640000,1%,11.40%,8,	1937269.1%,11.29%,8,						1706080.1%,11.28%,8,				P,2640000,1%,11.40%,8,				1474891.1%,11.28%,8,				1243702.1%,11.28%,8,				1012513.1%,11.28%,8,			
SR 65 (Porterville Hwy): Garces Hwy - County Line Rd	17	2,700	15%		H	W	2	11	6,600,000	25.0%	1651980	P,2640000,11.11%,11.40%,8,		2580967.11.39%,11.37%,17,		P,2640000,11.11%,11.40%,8,	2533138.11.3%,11.37%,17,		2485302.11.2%,11.37%,17,				2437467.11.1%,11.37%,17,				2389632.11%,11.37%,17,				2341797.11%,11.37%,17,				2293962.11%,11.37%,17,				2246127.11%,11.37%,17,			
SR 65 (Porterville Hwy): Merle Haggard Dr - James Rd	913	15,000	10%		H	W	2	11	6,600,000	30.4%	2494800	2208189.5.58%,11.33%,13,		1917279.5.14%,11.29%,4,		P,2640000,5.1%,11.40%,4,	2340297.5.07%,11.35%,13,		2036099.5.03%,11.31%,4,				1727338.4.99%,11.28%,4,PW		1418950.4.95%,11.26%,4,CW		M.1350000,4.81%,12.100%,16,		13162387.4.78%,12.97%,13,		12819710.4.74%,12.95%,13,		12471893.4.71%,12.92%,13,		12118859.4.68%,12.90%,13,		11765029.4.64%,12.87%,13,		11396824.4.61%,12.84%,13,		11027664.4.57%,12.82%,13,		10652966.4.54%,12.79%,13,		10272648.4.51%,12.76%,13,		9886625.4.47%,12.73%,13,
SR 65 (Porterville Hwy): James Rd - Lerdo Hwy	547	14,300										2221565.3.26%,11.34%,13,		1944231.3.23%,11.29%,4,		P,2640000,3.21%,11.40%,4,	2354284.3.18%,11.36%,13,		2064282.3.16%,11.31%,14,				1774359.3.14%,11.27%,14,PW		1471193.3.11%,11.23%,4,PW		1167959.3.08%,11.20%,4,PW		864616.3.06%,11.16%,4,PW		561273.3.03%,11.13%,4,PW		257930.3%,11.9%,4,PW		1,11.9%,4,PW		1,11.9%,4,PW		1,11.9%,4,PW		1,11.9%,4,PW
SR 65 (Porterville Hwy): Lerdo Hwy - Merced Ave	386	11,100										2387082.960,11.35%,13,		2067431.2.94%,11.31%,13,		1848932.2.92%,11.28%,4,		C,2640000,2.87%,11.40%,6,		2431577.2.85%,11.37%,13,				2179607.2.83%,11.33%,13,		1942418.2.81%,11.29%,4,		P,2640000,2.77%,11.40%,4,		1705298.2.79%,11.26%,14,PW		1469.2.75%,11.23%,4,PW		1232859.2.75%,11.36%,13,		1214426.2.73%,11.32%,14,		1195445.2.71%,11.29%,4,		1176464.2.69%,11.26%,4,		1157483.2.67%,11.23%,4,		1138502.2.65%,11.20%,4,		M.9490000,2.58%,11.5,100%,16,
SR 65 (Porterville Hwy): Merced Ave - Famoso Rd	10	1,800										2364870.11%,11.36%,17,		2232991.1%,11.34%,17,		2099134.1%,11.32%,18,		1963269.1%,11.30%,8,		P,2640000,1%,11.40%,8,		2500028.1%,11.38%,17,		2357957.1%,11.36%,17,		2213755.1%,11.34%,17,		2067390.1%,11.31%,18,		1918829.1%,11.29%,8,		P,2640000,1%,11.40%,8,		2484653.1%,11.38%,17,		2326976.1%,11.35%,17,		2169034.1%,11.33%,18,		2004491.1%,11.30%,8,		1,11.30%,8,		1,11.30%,8,		1,11.30%,8,
SR 65 (Porterville Hwy): Famoso Rd - SR 155 (Garces Hwy)	0	9,400										2315191.1%,11.35%,17,		2112888.11.32%,18,		1947850.11%,11.30%,8,		1782.11%,11.28%,8,		P,2640000,11%,11.40%,8,		2500028.11%,11.38%,17,		2357957.11%,11.36%,17,		2213755.11%,11.34%,17,		2067390.11%,11.31%,18,		1918829.11%,11.29%,8,		P,2640000,11%,11.40%,8,		2484653.11%,11.38%,17,		2326976.11%,11.35%,17,		2169034.11%,11.33%,18,		2010491.11%,11.30%,8,		1851948.11%,11.28%,8,		1693405.11%,11.25%,4,		1534862.11%,11.23%,4,		1376319.11%,11.20%,4,		1217776.11%,11.18%,4,		1059233.11%,11.15%,4,		900690.11%,11.13%,4,		742147.11%,11.10%,4,		583604.11%,11.8%,4,		425061.11%,11.5%,4,		266518.11%,11.3%,4,		107975.11%,11.1%,4,		1,11.1%,4,		1,11.1%,4,		1,11.1%,4,
SR 65 (Porterville Hwy): Famoso Rd - SR 155 (Garces Hwy) - County Line	0	8,100										2340030.11%,11.35%,17,		2078293.11%,11.33%,17,		2023491.11%,11.31%,18,		1861652.11%,11.28%,8,		P,2640000,11%,11.40%,8,		2473269.11%,11.37%,17,		2308437.11%,11.35%,17,		2153267.11%,11.32%,18,		1997920.11%,11.30%,8,